

FCC Radio Test Report

FCC ID: 2BAOD-1420

Original Grant

Report No. : TBR-C-202305-0005-82
Applicant : AirSuite Limited
Equipment Under Test (EUT)
EUT Name : AirSuite Glance LTE
Model No. : ASCM1420
Brand Name : AirSuite Glance
Sample ID : C-202305-0005-01-1# & C-202305-0005-01-2#
Receipt Date : 2023-03-09
Test Date : 2023-03-09 to 2023-05-19
Issue Date : 2023-05-19
Standards : 47 CFR FCC Part 2, Part 90
Test Method : ANSI C63.26 2015
Conclusions : **PASS**

In the configuration tested, the EUT complied with the standards specified above,

Test/Witness Engineer : Camille Li

Engineer Supervisor : Ivan Su

Engineer Manager : Ray Lai



This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

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Revision History

Report No.	Version	Description	Issued Date
TBR-C-202305-0005-82	Rev.01	Initial issue of report	2023-04-13

1. General Information about EUT

1.1 Client Information

Applicant	:	AirSuite Limited
Address	:	3 Melody Lane, Hamilton East, Hamilton 3216 New Zealand
Manufacturer	:	SHENZHEN FENDA SMART TECHNOLOGY LIMITED
Address	:	Fenda Hi-Tech Park, Zhoushi Road, Shiyao Baoan, Shenzhen, China. 518108

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	AirSuite Glance LTE
Models No.	:	ASCM1420
Product Description	:	Frequency Bands: LTE Band 26:TX: 814MHz-824MHz, RX: 859MHz-869MHz
	:	Antenna Type: Chip Antenna
	:	Antenna Gain: 1.1dBi
	:	Modulation Type: QPSK, 16QAM For Cat M1 BPSK, QPSK For NB-IOT
	:	Bandwidth: LTE Band 26: 1.4MHz/3MHz/5MHz/10MHz
	:	LTE Category: 1
Power Rating	:	Input: DC 5V DC 3.6V by 10.8Ah Li-ion battery
Software Version	:	1.0.0
Hardware Version	:	S010C

Note:

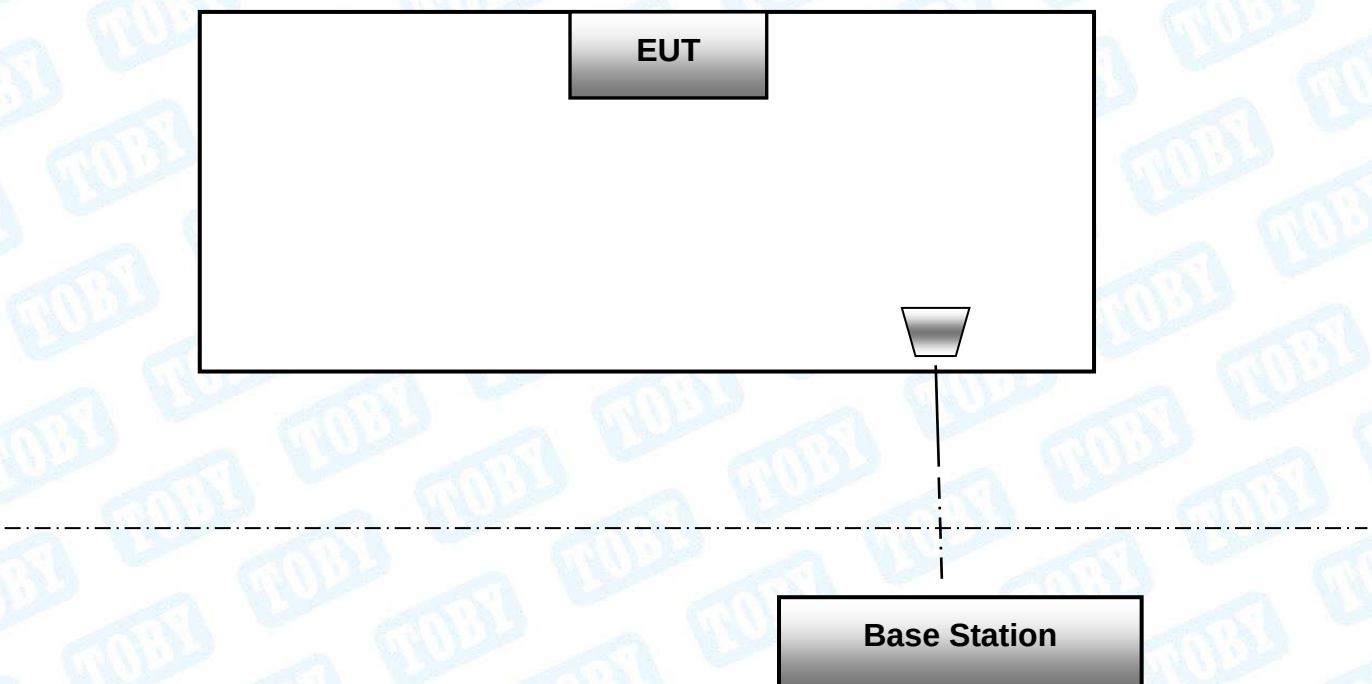
- (1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

(2) Channel List

Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE Cat M1 Band 26A	1.4	814.7	819.0	823.3
	3	815.5	819.0	822.5
	5	816.5	819.0	821.5
	10	/	819.0	/

Test mode:	Sub Carrier Spacing (KHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE Cat NB Band 26A	3.75	814.2	819.0	823.8
	15	814.2	819.0	823.8

1.3 Block Diagram Showing the Configuration of System Tested



The above block diagram of setup is the normal mode. And more detail please refer to the test setup of each test item of bellow.

1.4 Description of Support Units

The EUT has been tested as an independent unit.

1.5 Description of Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 v03r01 and ANSI C63.26 2015 Power Meas. License Digital Systems with maximum output power. Radiated measurements are performed by rotating the EUT in three different or tho-gonal test planes to find the maximum emission.

Remark:

1. The mark “v “ means that this configuration is chosen for testing
2. The mark “--“ means that this bandwidth is not supported.
3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated

ITEMS	Band	Bandwidth (MHz)						Modulation		RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
RF Output Power	26	V	V	V	V	--	--	V	V	V	V	V	V	V	V
Peak-to-Average Ratio	26	--	--	--	V	--	--	V	V			V	--	V	--
99% & -26 dB Occupied Bandwidth	26	V	V	V	V	--	--	V	V	V			V	V	V
Spurious Emissions at Antenna Terminal	26	V	V	V	V	--	--	V	V	V		V	V	V	V
Field Strength of Spurious Radiation	26	V	V	V	V	--	--	V	V	V				V	
Emission Masks	26	V	V	V	V	--	--	V	V	V		V	V	V	V
Frequency stability	26	V	V	V	V	--	--	V	V	V				V	

The EUT is LTE Category 1, 16QAM only supports 25%RB. So the 16QAM only test 25%RB.

ITEMS Band		Bandwidth (KHz)		Modulation		RB #			Test Channel		
		3.75	15	QPSK	BPSK	1	Half	Full	L	M	H
RF Output Power	26	V	V	V	V	V	V	V	V	V	V
Peak-to-Average Ratio	26	V	V	V	V			V	--	V	--
99% & -26 dB Occupied Bandwidth	26	V	V	V	V	V			V	V	V
Spurious Emissions at Antenna Terminal	26	V	V	V	V	V		V	V	V	V
Field Strength of Spurious Radiation	26	V	V	V	V	V				V	
Emission Masks	26	V	V	V	V	V		V	V	V	V
Frequency stability	26	V	V	V	V	V				V	

Note:

- (1) During the testing procedure, the EUT is in link mode with base station emulator at maximum power level in each test mode.
- (2) The EUT is considered a portable unit; it was pre-tested on the positioned of each 3 axis, X-plane, Y-plane and Z-plane. The worst case was found positioned on Z-plane as the normal use. Therefore only the test data of this Z-plane was used for radiated emission measurement test.

1.6 Measurement Uncertainty

Test Item	Parameters	Expanded Uncertainty (U _{Lab})
RF Power, conducted	/	±0.82 dB
Radiated Emission	Level Accuracy: 9kHz to 30 MHz	±4.60 dB
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	±4.50 dB
Radiated Emission	Level Accuracy: Above 1000MHz	±4.20 dB

1.7 Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1/F., Building 6, Rundongsheng Industrial Zone, Longzhu, Xixiang, Bao'an District, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

A2LA Certificate No.: 4750.01

The laboratory has been accredited by American Association for Laboratory Accreditation(A2LA) to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the technical competence in the field of Electrical Testing. And the A2LA Certificate No.: 4750.01. FCC Accredited Test Site Number: 854351. Designation Number: CN1223.

IC Registration No.: (11950A)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A. CAB identifier: CN0056.

2. Test Summary

Test Item	Section in CFR 47	Result
RF Output Power	2.1046/90.635(b)	PASS
Peak-to-Average Ratio	KDB 971168 D01(5.7)	PASS
99% & -26 dB Occupied Bandwidth	2.1049/ 90.209	PASS
Spurious Emissions at Antenna Terminal	2.1051 / 90.691	PASS
Field Strength of Spurious Radiation	2.1053 /90.691	PASS
Emission Masks	2.1051 / 90.691	PASS
Frequency stability vs. temperature	2.1055 / 90.213	PASS
Frequency stability vs. voltage	2.1055 / 90.213	PASS
Pass: The EUT complies with the essential requirements in the standard.		

3. Test Software

Test Item	Test Software	Manufacturer	Version No.
Radiation Emission	EZ-EMC	EZ	FA-03A2RE

4. Test Equipment

Conducted Emission Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jun. 23, 2022	Jun. 22, 2023
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jun. 23, 2022	Jun. 22, 2023
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jun. 22, 2022	Jun. 21, 2023
LISN	Rohde & Schwarz	ENV216	101131	Jun. 22, 2022	Jun. 21, 2023
ISN	SCHWARZBECK	NTFM 8131	8131-193	Jun. 22, 2022	Jun. 21, 2023
ISN	SCHWARZBECK	CAT3 8158	cat3 5158-0094	Jun. 22, 2022	Jun. 21, 2023
ISN	SCHWARZBECK	NTFM5158	NTFM5158 0145	Jun. 22, 2022	Jun. 21, 2023
ISN	SCHWARZBECK	CAT 8158	cat5 8158-179	Jun. 22, 2022	Jun. 21, 2023
Radiation Emission Test (A Site)					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102197	Jun. 23, 2022	Jun. 22, 2023
EMI Test Receiver	Rohde & Schwarz	ESPI	100010/007	Jun. 23, 2022	Jun. 22, 2023
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Feb. 27, 2022	Feb.26, 2024
Horn Antenna	ETS-LINDGREN	3117	00143207	Feb. 26, 2022	Feb.25, 2024
Horn Antenna	SCHWARZBECK	BBHA 9170	1118	Feb. 26, 2022	Feb.25, 2024
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-059	Feb. 26, 2022	Feb.25, 2024
Pre-amplifier	SONOMA	310N	185903	Feb. 23, 2023	Feb.22, 2024
Pre-amplifier	HP	8449B	3008A00849	Feb. 23, 2023	Feb.22, 2024
HF Amplifier	Tonscend	TAP0184050	AP21C806129	Sep.01.2022	Aug. 31, 2023
Antenna Conducted Emission					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jun. 23, 2022	Jun. 22, 2023
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102197	Jun. 23, 2022	Jun. 22, 2023
MXA Signal Analyzer	KEYSIGHT	N9020B	MY60110172	Sep. 01, 2022	Aug. 31, 2023
MXA Signal Analyzer	Agilent	N9020A	MY47380425	Sep. 01, 2022	Aug. 31, 2023
Vector Signal Generator	Agilent	N5182A	MY50141294	Sep. 01, 2022	Aug. 31, 2023
Analog Signal Generator	Agilent	N5181A	MY48180463	Sep. 01, 2022	Aug. 31, 2023
Vector Signal Generator	KEYSIGHT	N5182B	MY59101429	Sep. 01, 2022	Aug. 31, 2023
Analog Signal Generator	KEYSIGHT	N5173B	MY61252685	Dec. 15, 2022	Dec. 14, 2023
RF Power Sensor	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO26	Sep. 01, 2022	Aug. 31, 2023

	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO29	Sep. 01, 2022	Aug. 31, 2023
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO31	Sep. 01, 2022	Aug. 31, 2023
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO33	Sep. 01, 2022	Aug. 31, 2023
RF Control Unit	Tonsced	JS0806-1	21C8060380	N/A	N/A
RF Control Unit	Tonsced	JS0806-2	21F8060439	Sep. 01, 2022	Aug. 31, 2023
Band Reject Filter Group	Tonsced	JS0806-F	21D8060414	Jun. 23, 2022	Jun. 22, 2023
Power Control Box	Tonsced	JS0806-4ADC	21C8060387	N/A	N/A
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	144382	Sep. 01, 2022	Aug. 31, 2023
Universal Radio Communication Tester	Rohde&Schwarz	CMW500	168796	Jun. 23, 2022	Jun. 22, 2023
Temperature and Humidity Chamber	ZhengHang	ZH-QTH-1500	ZH2107264	Jun. 22, 2022	Jun. 21, 2023

5. Conducted RF Output Power

5.1 Test Standard and Limit

5.1.1 Test Standard

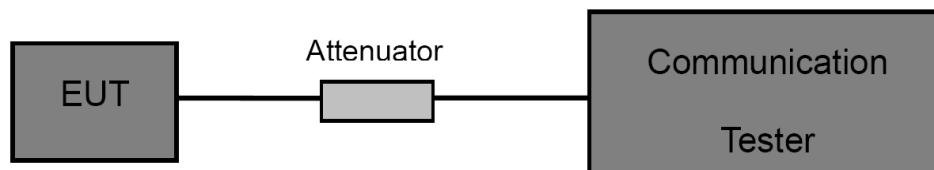
FCC part 2.1046

FCC Part 90.635(b)

5.1.2 Test Limit

RF Output Power
LTE Band 26(814MHz-824MHz)
100W(50dBm)

5.2 Test Setup



5.3 Test Procedure

- (1) The EUT is coupled to the Base Station with the suitable Attenuator, the path loss is calibrated to correct the reading.
- (2) A call is set up by the Base Station to the generic call set up procedure.
- (3) Set EUT at maximum power level through base station by power level command.
- (4) Then read record the power value from the Base Station in dBm.

5.4 Deviation From Test Standard

No deviation

5.5 EUT Operating Condition

The EUT was continuously connected with the Base station and transmitting in the max power during the test.

5.6 Test Data

Please refer to the Appendix LTE Test Data

6. Peak-Average Ratio

6.1 Test Standard and Limit

6.1.1 Test Standard

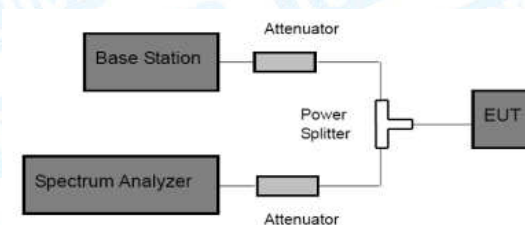
FCC Part 90

6.1.2 Test Limit

Peak-to-Average Ratio

The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

6.2 Test Setup



6.3 Test Procedure

According with KDB 971168

- (1) The signal analyzer's CCDF measurement profile is enabled.
- (2) Frequency = carrier center frequency.
- (3) Measurement BW > Emission bandwidth of signal.
- (4) The signal analyzer was set to collect one million samples to generate the CCDF curve.
- (5) Set the EUT working in highest power level, measured and recorded the 0.1% as PAPR level.
- (6) The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which of the transmitter is operating at maximum power.

6.4 Deviation From Test Standard

No deviation

6.5 EUT Operating Condition

The EUT was continuously connected with the Base station and transmitting in the max power during the test.

6.6 Test Data

Please refer to the Appendix LTE Test Data

7. Occupied Bandwidth

7.1 Test Standard and Limit

7.1.1 Test Standard

FCC Part 2.1049

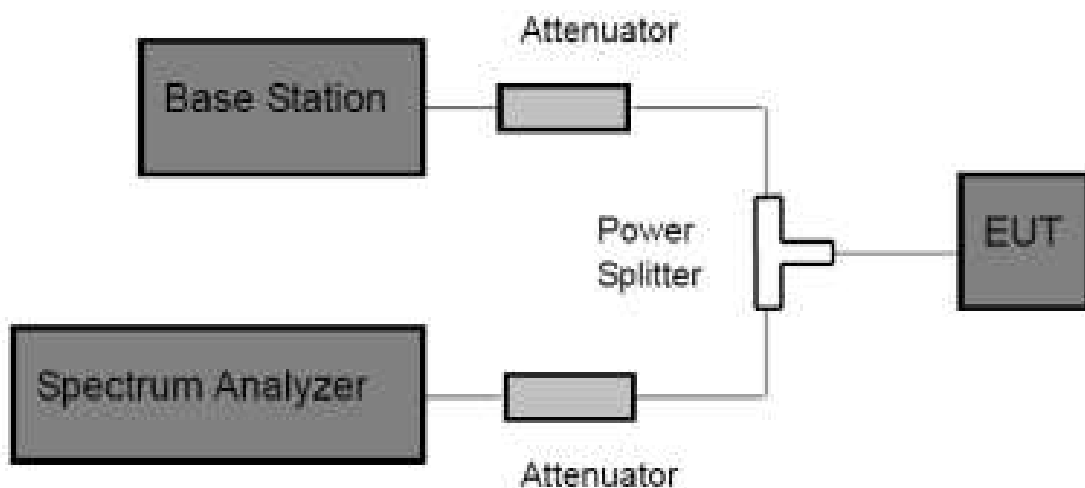
FCC Part 90.209

7.1.2 Test Requirement

According to FCC section 2.1049, the occupied bandwidth is the frequency bandwidth such that below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission.

Occupied bandwidth is also known as 99% power and -26dBC occupied bandwidths.

7.2 Test Setup



7.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and Base station via power splitter as show in the block diagram above.
- (2) The resolution bandwidth of the Spectrum Analyzer is set to at least 1% of the occupied bandwidth. VBW= 3 times RBW.
- (3) The low, middle and the high channels are selected to perform tests respectively.
- (4) Set the frequency range of the Spectrum Analyzer suitably to capture the waveform; search peak; make a line whose value is 26dB lower than the peak; mark two points which the line intersected the waveform at; finally record the delta of the two points as the occupied bandwidth and the plot.
- (5) Set the Spectrum Analyzer Occupied bandwidth function to measure the 99% occupied

bandwidth.

7.4 Deviation From Test Standard

No deviation

7.5 EUT Operating Condition

The EUT was continuously connected with the Base station and transmitting in the max power during the test.

7.6 Test Data

Please refer to the Appendix LTE Test Data

8. Out of Band Emission at Antenna Terminals

8.1 Test Standard and Limit

8.1.1 Test Standard

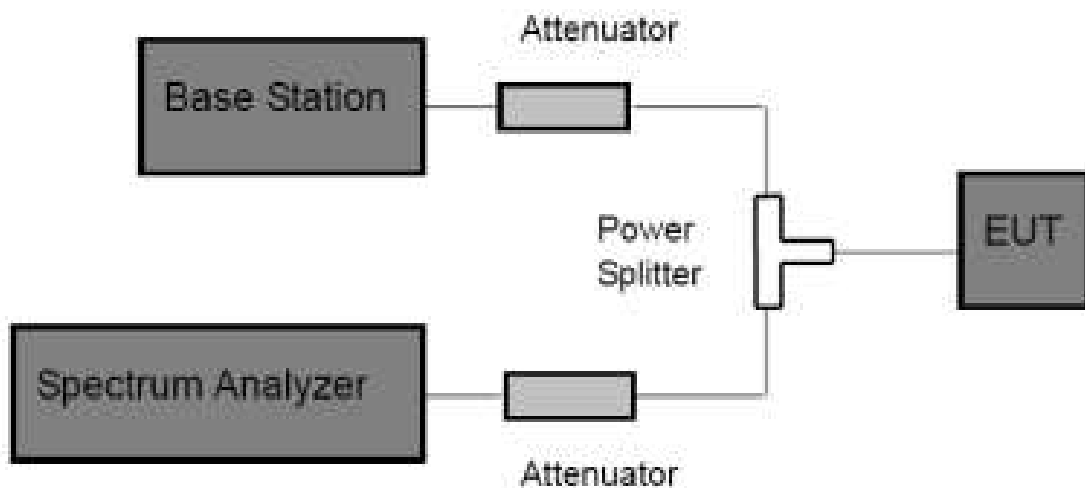
FCC Part 2: 2.1051

FCC Part 90.691

8.1.2 Test Limit

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.” this becomes a constant specification limit of -13 dBm.

8.2 Test Setup



8.3 Test Procedure

- 1 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation.
- 2 The resolution bandwidth of the spectrum analyzer was set at 100 kHz when below 1GHz, 1MHz when above 1 GHz; sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.
- 3 For the out of band: Set the RBW=100 kHz, VBW=300 kHz when below 1 GHz, RBW =1 MHz, VBW=3 MHz when above 1 GHz, Start=30MHz, Stop= 10th harmonic.
- 4 Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter.

8.4 Deviation From Test Standard

No deviation

8.5 EUT Operating Condition

The EUT was continuously connected with the Base station and transmitting in the max power during the test.

8.6 Test Data

Please refer to the Appendix LTE Test Data

9. Emission Mask

9.1 Test Standard and Limit

9.1.1 Test Standard

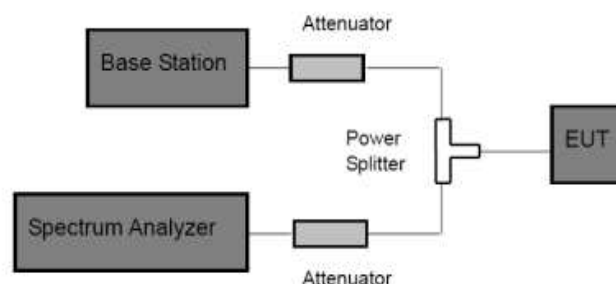
FCC Part 2: 2.1051

FCC Part 90.691

9.1.2 Test Limit

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.”

9.2 Test Setup



9.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and Base station via power splitter as show in the block diagram above.
- (2) Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter.

9.4 Deviation From Test Standard

No deviation

9.5 EUT Operating Condition

The EUT was continuously connected with the Base station and transmitting in the max power during the test.

9.6 Test Data

Please refer to the Appendix LTE Test Data

10. Radiated Output Power

10.1 Test Standard and Limit

10.1.1 Test Standard

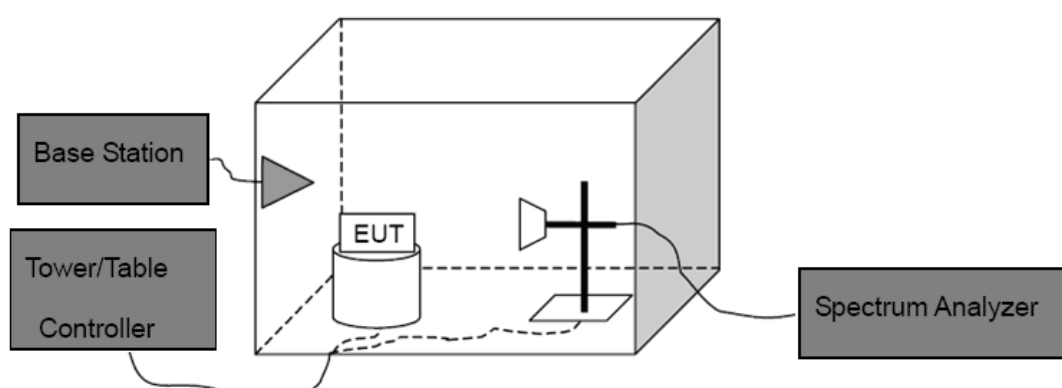
FCC Part 2.1046

FCC part 90.635(B)

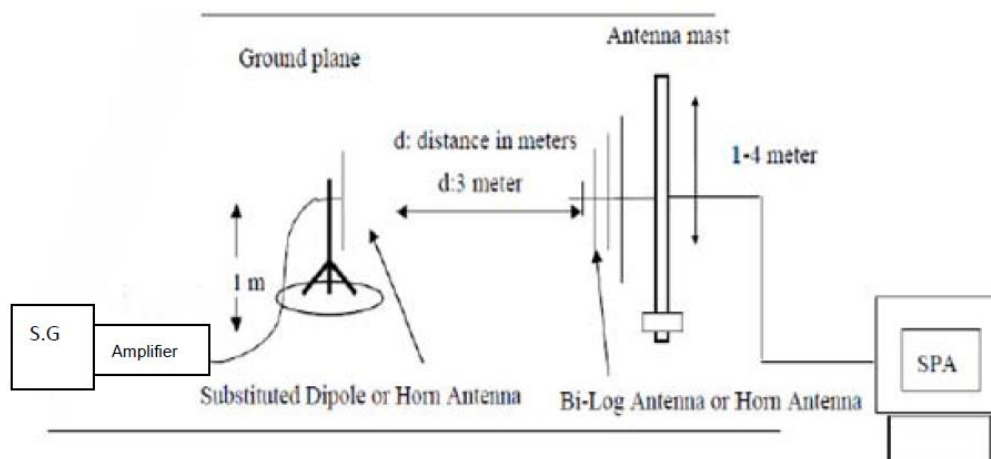
10.1.2 Test Limit

E.R.P
LTE Band 26(814MHz-824MHz)
100W(50dBm)

10.2 Test Setup



Above 1G



Substituted Method

10.3 Test Procedure

- (1) The EUT was placed on a non-conductive rotating platform with 0.8 meter height in an anechoic chamber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer with RBW=3 MHz, VBW=3 MHz and peak detector settings.
- (2) During the measurement, the EUT was enforced in maximum power and linked with the Base Station. The highest was recorded from analyzer power level (LVT) from the 360 degrees rotation of the turntable and the test antenna raised and lowered over a range from 1 to 4 meters in both horizontally and vertically polarized orientations.
- (3) Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to C63.26. The EUT was replaced by dipole antenna (for frequency below 1 GHz) or Horn antenna (for frequency above 1 GHz) at same location with same polarize of receiver antenna and then a known power of each measure frequency from S.G. was applied into the dipole antenna or Horn antenna through a TX cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna.

Note: In test, the S.G Connect the Pre-amplifier(Sonoma 310N Pre-amplifier for frequency below 1 GHz, HP 8449B Pre-amplifier for frequency above 1 GHz)

Then the EUT's EIRP and ERP was calculated with the correction factor:

$ERP = S.G.Level + Antenna\ Gain\ Cord.(dBd) - Cable\ Loss(dB)$

$EIRP = S.G.Level + Antenna\ Gain\ Cord.(dBi) - Cable\ Loss(dB)$

10.4 Deviation From Test Standard

No deviation

10.5 EUT Operating Condition

The EUT was continuously connected with the Base station and transmitting in the max power during the test.

10.6 Test Data

Please refer to the Attachment A.

Measurement Data (worst case)

11. Radiated Out Band of Emissions

11.1 Test Standard and Limit

11.1.1 Test Standard

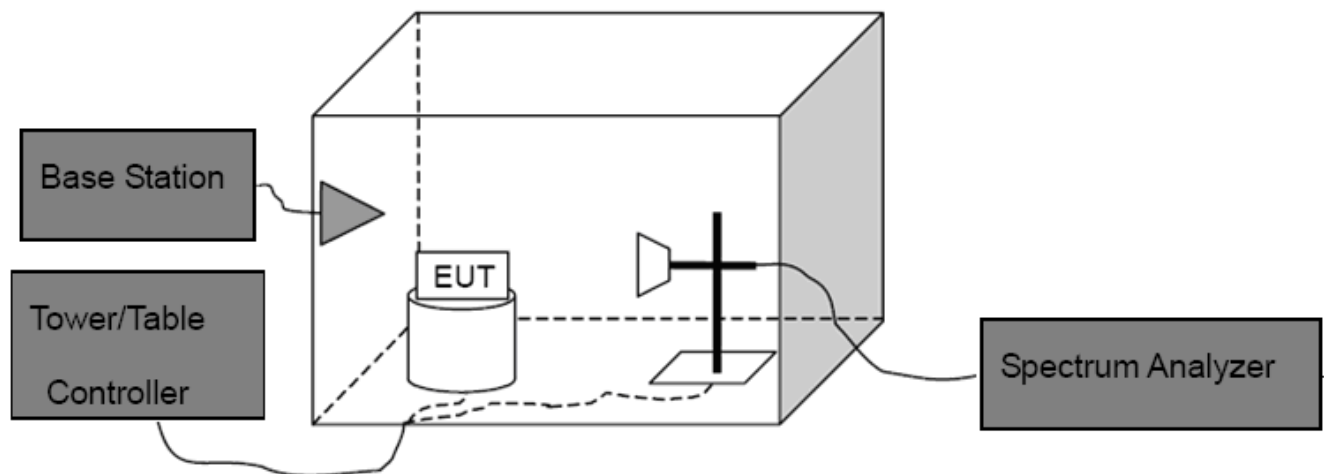
FCC Part 2.1053

FCC Part 90.691

11.1.2 Test Limit

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. For all power levels +30 dBm to 0 dBm, this becomes a constant specification limit of -13 dBm.

11.2 Test Setup



11.3 Test Procedure

- (1) The test system setup as show in the block diagram above.
- (2) The EUT was placed on an non-conductive rotating platform in an anechoic chamber. The radiated spurious emissions from 30MHz to 10th harmonious of fundamental frequency were measured at 3 m with a test antenna and a spectrum analyzer with RBW=1 MHz, VBW=1 MHz, peak detector settings.
- (3) During the measurement, the EUT was enforced in maximum power and linked with a base station. All the spurious emissions at 3m were measured by rotation of the turntable and the test antenna raised and lowered over a range from 1 to 4 meters in both horizontally and vertically polarized orientations.
- (4) When found the maximum level of emissions from the EUT. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in dB=10 log(TX power in Watts/0.001)-the absolute level

Spurious attenuation limit in dB=43+10 log(power out in Watts)

11.4 Deviation From Test Standard

No deviation

11.5 EUT Operating Condition

The EUT was continuously connected with the Base station and transmitting in the max power during the test.

11.6 Test Data

Please refer to the Attachment B.
Measurement Data (worst case)

12. Frequency Stability

12.1 Test Standard and Limit

12.1.1 Test Standard

FCC Part 2.1055(a)(1)(b)

FCC Part 90.213

12.1.2 Limit

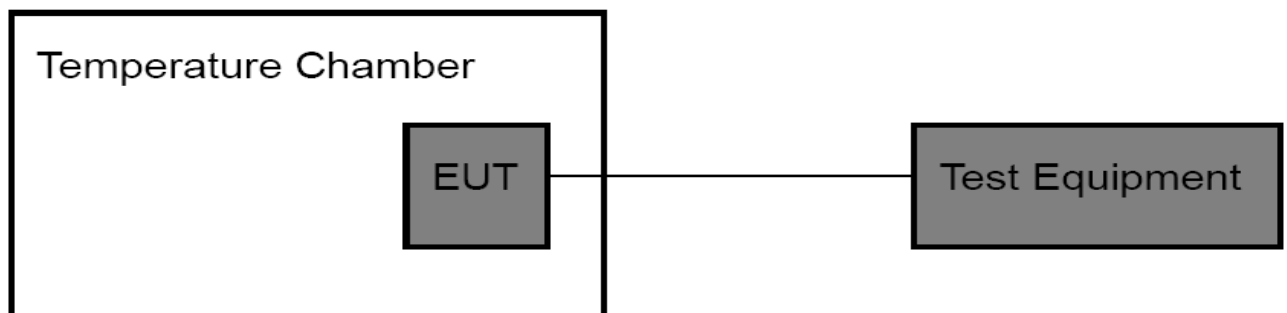
According to the Sec. 90.213.(a) Unless noted elsewhere, transmitters used in the services governed by this part must have a minimum frequency stability as specified in the following table. Minimum Frequency Stability

[Parts per million (ppm)]

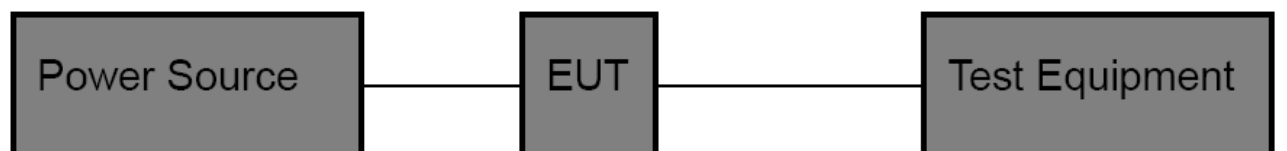
Frequency range (MHz)	Fixed and base stations	Mobile stations	
		Over 2 watts output power	2 watts or less output power
809-824	1.5	2.5	2.5

12.2 Test Setup

For Temperature Test:



For Voltage Test:



12.3 Test Procedure

Test Procedures for Temperature Variation:

- (1) The EUT was set up in the thermal chamber and connected with the base station.
- (2) With power off, the temperature was decreased to -30°C and the EUT was stabilized for three hours. Power was applied and the maximum change in frequency was recorded within one minute.
- (3) With power off, the temperature was raised in 10°C set up to 50°C and the EUT was stabilized for three hours. Power was applied and the maximum change in frequency was recorded within one minute.
- (4) If the EUT cannot be turned on at -30°C , the testing lowest temperature will be raised in 10°C step until the EUT can be turned on.

Test Procedures for Voltage Variation:

- (1) The EUT was placed in a temperature chamber at $25 \pm 5^{\circ}\text{C}$ and connected with the base station.
- (2) Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change.
- (3) The variation in frequency was measured for the worst case.

12.4 Deviation From Test Standard

No deviation

12.5 EUT Operating Condition

The Equipment Under Test was set to Communication with the Base Station.

12.6 Test Data

Please refer to the Appendix LTE Test Data

ATTACHMENT A--RADIATED OUTPUT POWER

Cat M1:

Radiated Power (EIRP) for LTE Band 26A / 1.4M								
Modulation	RB		Channel	Antenna (H&V)	SG Level (dBm)	Antenna Factor (dBd)	Cable Loss (dB)	EIRP (dBm)
	Size	offset						
QPSK	1	0	Lowest	H	21.60	5.01	2.59	24.02
				V	18.37	5.01	2.59	20.79
	1	0	Middle	H	18.98	4.82	2.59	21.21
				V	10.83	4.82	2.59	13.06
	1	0	Highest	H	24.01	4.45	2.59	25.87
				V	20.67	4.45	2.59	22.53
16QAM	1	0	Lowest	H	25.47	5.01	2.59	27.89
				V	20.37	5.01	2.59	22.79
	1	0	Middle	H	17.22	4.82	2.59	19.45
				V	10.83	4.82	2.59	13.06
	1	0	Highest	H	19.98	4.45	2.59	21.84
				V	17.26	4.45	2.59	19.12
Limit								33

Radiated Power (EIRP) for LTE Band 26A / 3M								
Modulation	RB		Channel	Antenna (H&V)	SG Level (dBm)	Antenna Factor (dBd)	Cable Loss (dB)	EIRP (dBm)
	Size	offset						
QPSK	1	0	Lowest	H	16.27	5.01	2.59	18.69
				V	23.80	5.01	2.59	26.22
	1	0	Middle	H	18.73	4.82	2.59	20.96
				V	16.46	4.82	2.59	18.69
	1	0	Highest	H	24.51	4.45	2.59	26.37
				V	20.43	4.45	2.59	22.29
16QAM	1	0	Lowest	H	24.60	5.01	2.59	27.02
				V	18.90	5.01	2.59	21.32
	1	0	Middle	H	19.91	4.82	2.59	22.14
				V	14.83	4.82	2.59	17.06
	1	0	Highest	H	19.37	4.45	2.59	21.23
				V	16.30	4.45	2.59	18.16
Limit								33

Radiated Power (EIRP) for LTE Band 26A / 5M								
Modulation	RB		Channel	Antenna (H&V)	SG Level (dBm)	Antenna Factor (dBd)	Cable Loss (dB)	EIRP (dBm)
	Size	offset						
QPSK	1	0	Lowest	H	18.53	5.01	2.59	20.95
				V	17.38	5.01	2.59	19.80
	1	0	Middle	H	17.59	4.82	2.59	19.82
				V	15.23	4.82	2.59	17.46
	1	0	Highest	H	15.96	4.45	2.59	17.82
				V	16.65	4.45	2.59	18.51
16QAM	1	0	Lowest	H	16.41	5.01	2.59	18.83
				V	18.59	5.01	2.59	21.01
	1	0	Middle	H	23.50	4.82	2.59	25.73
				V	14.51	4.82	2.59	16.74
	1	0	Highest	H	21.41	4.45	2.59	23.27
				V	16.49	4.45	2.59	18.35
Limit								33

Radiated Power (EIRP) for LTE Band 26A / 10M								
Modulation	RB		Channel	Antenna (H&V)	SG Level (dBm)	Antenna Factor (dBd)	Cable Loss (dB)	EIRP (dBm)
	Size	offset						
QPSK	1	0	Lowest	H	24.28	5.01	2.59	26.70
				V	13.54	5.01	2.59	15.96
	1	0	Middle	H	25.41	4.82	2.59	27.64
				V	14.91	4.82	2.59	17.14
	1	0	Highest	H	25.40	4.45	2.59	27.26
				V	23.19	4.45	2.59	25.05
16QAM	1	0	Lowest	H	21.12	5.01	2.59	23.54
				V	12.04	5.01	2.59	14.46
	1	0	Middle	H	16.84	4.82	2.59	19.07
				V	19.68	4.82	2.59	21.91
	1	0	Highest	H	21.65	4.45	2.59	23.51
				V	22.17	4.45	2.59	24.03
Limit								33

CAT NB:

Radiated Power (EIRP) for LTE Band 26A / 3.75KHz								
Modulation	RB		Channel	Antenna (H&V)	SG Level (dBm)	Antenna Factor (dBd)	Cable Loss (dB)	EIRP (dBm)
	Size	offset						
QPSK	1	0	Lowest	H	17.85	5.01	2.59	20.27
				V	10.31	5.01	2.59	12.73
	1	0	Middle	H	24.60	4.82	2.59	26.83
				V	19.50	4.82	2.59	21.73
	1	0	Highest	H	21.57	4.45	2.59	23.43
				V	22.66	4.45	2.59	24.52
BPSK	1	0	Lowest	H	17.62	5.01	2.59	20.04
				V	17.40	5.01	2.59	19.82
	1	0	Middle	H	19.08	4.82	2.59	21.31
				V	15.51	4.82	2.59	17.74
	1	0	Highest	H	19.71	4.45	2.59	21.57
				V	15.82	4.45	2.59	17.68
Limit								33

Radiated Power (EIRP) for LTE Band 26A /15KHz								
Modulation	RB		Channel	Antenna (H&V)	SG Level (dBm)	Antenna Factor (dBd)	Cable Loss (dB)	EIRP (dBm)
	Size	offset						
QPSK	1	0	Lowest	H	19.44	5.01	2.59	21.86
				V	17.66	5.01	2.59	20.08
	1	0	Middle	H	21.90	4.82	2.59	24.13
				V	13.73	4.82	2.59	15.96
	1	0	Highest	H	21.91	4.45	2.59	23.77
				V	18.25	4.45	2.59	20.11
BPSK	1	0	Lowest	H	20.60	5.01	2.59	23.02
				V	16.32	5.01	2.59	18.74
	1	0	Middle	H	22.38	4.82	2.59	24.61
				V	14.84	4.82	2.59	17.07
	1	0	Highest	H	16.68	4.45	2.59	18.54
				V	16.63	4.45	2.59	18.49
Limit								33

ATTACHMENT B--RADIATED OUT BAND OF EMISSIONS

Measurement Data (worst case)

Test mode:	LTE BAND 26 1.4MHz (RB size 1 & RB offset 0) for QPSK						
Channel:	Middle						
Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
	Polarization (H&V)	Read Level (dBm)	Antenna Correct Factor (dBi)	Cable Loss (dB)	Emission Level (dBm)		
1673.45	Horizontal	-53.72	14.94	6.12	-32.66	-13.00	Pass
2509.51	H	-63.87	13.87	7.86	-42.14		
3283.84	H	-68.49	14.49	9.54	-44.46		
1627.45	Vertical	-37.22	8.02	3.97	-25.23	-13.00	Pass
2432.51	V	-44.80	10.47	5.05	-29.28		
3226.84	V	-55.18	16.92	5.98	-32.28		
Remark: 1, The testing has been conformed to 10*819.0MHz=819.0MHz. 2, All other emissions more than 50 dB below the limit. 3, Emission Level= Read Level+ Antenna Correct Factor +Cable Loss							

Test mode:	LTE BAND 26 3MHz (RB size 1 & RB offset 0) for QPSK						
Channel:	Middle						
Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
	Polarization (H&V)	Read Level (dBm)	Antenna Correct Factor (dBi)	Cable Loss (dB)	Emission Level (dBm)		
1639.50	Horizontal	-54.25	14.94	6.12	-33.19	-13.00	Pass
2455.43	H	-67.46	13.87	7.86	-45.73		
3267.42	H	-72.08	14.49	9.54	-48.05		
1635.52	Vertical	-37.42	8.02	3.97	-25.43	-13.00	Pass
2433.61	V	-46.42	10.47	5.05	-30.90		
3286.83	V	-54.99	16.92	5.98	-32.09		
Remark: 1, The testing has been conformed to 10*819.0MHz=819.0MHz.							
2, All other emissions more than 50 dB below the limit.							
3, Emission Level= Read Level+ Antenna Correct Factor +Cable Loss							

Test mode:	LTE BAND 26 5MHz (RB size 1 & RB offset 0) for QPSK						
Channel:	Middle						
Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
	Polarization (H&V)	Read Level (dBm)	Antenna Correct Factor (dBi)	Cable Loss (dB)	Emission Level (dBm)		
1692.63	Horizontal	-55.65	14.94	6.12	-34.59	-13.00	Pass
2439.21	H	-66.64	13.87	7.86	-44.91		
3258.62	H	-68.05	14.49	9.54	-44.02		
1663.47	Vertical	-39.98	8.02	3.97	-27.99	-13.00	Pass
2437.18	V	-46.68	10.47	5.05	-31.16		
3265.84	V	-59.23	16.92	5.98	-36.33		
Remark: 1, The testing has been conformed to 10*819.0MHz=819.0MHz. 2, All other emissions more than 50 dB below the limit. 3, Emission Level= Read Level+ Antenna Correct Factor +Cable Loss							

Test mode:	LTE BAND 26 10MHz (RB size 1 & RB offset 0) for QPSK						
Channel:	Middle						
Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
	Polarization (H&V)	Read Level (dBm)	Antenna Correct Factor (dBi)	Cable Loss (dB)	Emission Level (dBm)		
1627.43	Horizontal	-56.65	14.94	6.12	-35.59	-13.00	Pass
2453.52	H	-63.83	13.87	7.86	-42.10		
3269.75	H	-71.47	14.49	9.54	-47.44		
1672.35	Vertical	-35.87	8.02	3.97	-23.88	-13.00	Pass
2462.38	V	-48.82	10.47	5.05	-33.30		
3254.81	V	-56.24	16.92	5.98	-33.34		
Remark: 1, The testing has been conformed to 10*819.0MHz=819.0MHz. 2, All other emissions more than 50 dB below the limit. 3, Emission Level= Read Level+ Antenna Correct Factor +Cable Loss							

Cat NB:

Test mode:	LTE BAND 26 3.75KHz (RB size 1 & RB offset 0) for QPSK						
Channel:	Middle						
Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
	Polarization (H&V)	Read Level (dBm)	Antenna Correct Factor (dBi)	Cable Loss (dB)	Emission Level (dBm)		
1657.45	Horizontal	-57.66	14.94	6.12	-36.60	-13.00	Pass
2438.52	H	-65.41	13.87	7.86	-43.68		
3250.81	H	-70.20	14.49	9.54	-46.17		
1627.45	Vertical	-35.50	8.02	3.97	-23.51	-13.00	Pass
2435.58	V	-46.57	10.47	5.05	-31.05		
3267.82	V	-55.75	16.92	5.98	-32.85		
Remark: 1, The testing has been conformed to 10*819.0MHz=819.0MHz. 2, All other emissions more than 50 dB below the limit. 3, Emission Level= Read Level+ Antenna Correct Factor +Cable Loss							

Test mode:	LTE BAND 26 15KHz (RB size 1 & RB offset 0) for QPSK						
Channel:	Middle						
Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
	Polarization (H&V)	Read Level (dBm)	Antenna Correct Factor (dBi)	Cable Loss (dB)	Emission Level (dBm)		
1637.61	Horizontal	-54.68	14.94	6.12	-33.62	-13.00	Pass
2487.35	H	-65.75	13.87	7.86	-44.02		
3266.82	H	-68.93	14.49	9.54	-44.90		
1659.37	Vertical	-35.94	8.02	3.97	-23.95	-13.00	Pass
2428.49	V	-44.19	10.47	5.05	-28.67		
3229.84	V	-54.01	16.92	5.98	-31.11		
Remark: 1, The testing has been conformed to 10*819.0MHz=819.0MHz. 2, All other emissions more than 50 dB below the limit. 3, Emission Level= Read Level+ Antenna Correct Factor +Cable Loss							

-----End of Report-----