



FCC RADIO TEST REPORT

FCC ID	:	2AJN7-TP00136AL
Equipment	:	Notebook Computer
Brand Name	:	Lenovo
Model Name	:	TP00136A; TP00136B
Applicant	:	LC Future Center Limited Taiwan Branch
		7F., No.780, Beian Rd., Zhongshan Dist., Taipei 104, Taiwan
Manufacturer	:	LCFC (HeFei) Electronics Technology Co., Ltd.
		No. 3188-1, Yungu Road (Hefei Export Processing Zone), Hefei Economics & Technology Development Area, Anhui, CHINA
Standard	:	FCC 47 CFR Part 2, and 90(S)

Equipment: Quectel EM05-G tested inside of Lenovo Notebook Computer.

The product was received on Oct. 18, 2021 and testing was performed from Oct. 27, 2021 to Nov. 18, 2021. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The test results in this partial report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu Sporton International Inc. EMC & Wireless Communications Laboratory

Page Number	: 1 of 15
Issued Date	: Jan. 12, 2022
Report Version	: 02



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Appendix C. Test Setup Photographs



History of this test report

Report No.	Version	Description	Issued Date
FG101802D	01	Initial issue of report	Jan. 05, 2022
FG101802D	02	Revise Product Feature	Jan. 12, 2022



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark	
3.2	§2.1046 §90.635	Conducted Output Power and Effective Radiated Power	Pass	-	
-	-	Peak-to-Average Ratio	-	See Note	
-	§2.1049 §90.209	Occupied Bandwidth and 26dB Bandwidth	-	See Note	
-	§2.1051 §90.691	Emission masks – In-band emissions	-	See Note	
-	§2.1051 §90.691	Emission masks – Out of band emissions	-	See Note	
-	§2.1055 §90.213	Frequency Stability for Temperature & Voltage	-	See Note	
3.3	§2.1053 §90.691	Field Strength of Spurious Radiation	Pass	Under limit 28.17 dB at 2448.000 MHz	
	The module (M from the module	lodel: EM05-G) makes no difference after verif	ying output power, t	his report reuses	

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sheng Kuo Report Producer: Celery Wei



1 General Description

1.1 Feature of Equipment Under Test

	Product Feature							
Equipment	Notebook Computer							
Brand Name	Lenovo							
Model Name	TP00136A; TP00136B							
FCC ID	2AJN7-TP00136AL							
Sample 1	EUT with AWAN Antenna							
Sample 2	EUT with Speed Antenna							
EUT supports Radios application	WCDMA/HSPA/LTE/GNSS							
EUT Stage	Production Unit							

Remark:

1. The above EUT's information was declared by manufacturer.

2. Equipment: Quectel EM05-G tested inside of Lenovo Notebook Computer.

WWAN Antenna Information								
	Manufacturer	AWAN	Peak gain (dBi)	LTE Band 26 : -1.56				
Main Antenna	Part number	DC33001VX00	Туре	PIFA				
Main Antenna	Manufacturer	Speed	Peak gain (dBi)	LTE Band 26 : -1.56				
	Part number	DC33001VY00	Туре	PIFA				

Remark:

- **1.** The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.
- **2.** The output power measurement was performed with "AWAN Antenna", and performed with "Speed Antenna" in radiated spurious emission test as representative.

1.2 Product Specification of Equipment Under Test

Product Specification is subject to this standard						
Tx Frequency 814.7 ~ 823.3 MHz						
Rx Frequency	859.7 ~ 868.3 MHz					
Bandwidth	1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz					
Maximum Output Power to Antenna 23.76 dBm						
Type of Modulation QPSK / 16QAM						

1.3 Modification of EUT

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



1.4 Testing Site

Sporton International Inc. EMC & Wireless Communications Laboratory			
No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333			
Sporton Site No.			
TH03-HY			
Benjamin Lin			
23.5~25			
49.4~52			
Sporton International Inc. Wensan Laboratory			
No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist.,			
Taoyuan City 333010			
Sporton Site No.			
03CH15-HY (TAF Code: 3786)			
Leo Lee, Mancy Chou and Bigshow Wang			
22.5~24.5			
45~55			
The Radiated Spurious Emission test item subcontracted to Sporton			
International Inc. Wensan Laboratory.			

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: TW1190 and TW3786

1.5 Applied Standards

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

- FCC 47 CFR Part 2, 90
- ANSI / TIA-603-E
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- FCC KDB 414788 D01 Radiated Test Site v01r01
- Interim Guidance for Equipment Authorization of Devices with Channel Bandwidths Combined Across Two Contiguous Service Rule Allocations OET/Lab/EACB, June 6, 2013

Remark:

- 1. All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. The TAF code is not including all the FCC KDB listed without accreditation.



2 Test Configuration of Equipment Under Test

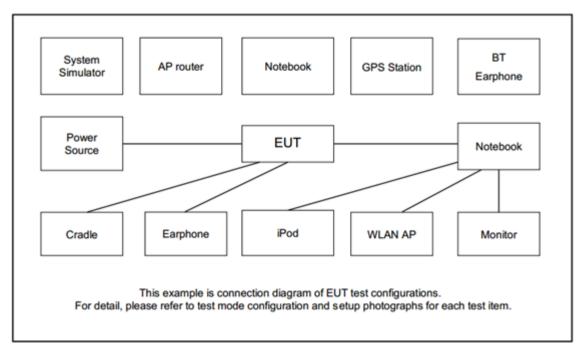
2.1 Test Mode

During all testing, EUT is in link mode with base station emulator at maximum power level.

Conducted	Band		Bandwidth (MHz)					Modulation		RB #			Test Channel		
Test Cases		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	М	Н
Max. Output Power	26	v	v	v	v	v	-	v	v	v	v	v	v	v	v
E.R.P.	26	v	v	v	v	v	-	v	v	Max. Power		r			
Radiated															
Spurious	26			v	v	v	-	v		v			v	v	v
Emission															
Remark	 The mark "v " means that this configuration is chosen for testing The mark "-" means that this bandwidth is not supported. LTE Band26 transmit frequency for part22 rule is 824MHz-849MHz, for part90 rule is 814MHz-824MHz. ERP over 15MHz bandwidth complies the ERP limit line of part22 rule, therefore ERP of the partial frequency spectrum which falls within part 22 also complies. All the radiated test cases were performed with Battery 1. 														

Frequency range investigated for radiated emission is 30 MHz to 9000 MHz.

2.2 Connection Diagram of Test System





2.3 Support Unit used in test configuration and system

ltem	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
3.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A

2.4 Frequency List of Low/Middle/High Channels

LTE Band 26 Channel and Frequency List									
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest					
15	Channel	26765	-	-					
15	Frequency	821.5	-	-					
10	Channel	-	26740	-					
10	Frequency	-	819	-					
5	Channel	26715	26740	26765					
D	Frequency	816.5	819	821.5					
3	Channel	26705	26740	26775					
5	Frequency	815.5	819	822.5					
1.4	Channel	26697	26740	26783					
1.4	Frequency	814.7	819	823.3					



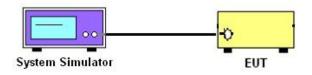
3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.1.1 Test Setup

3.1.2 Conducted Output Power



3.1.3 Test Result of Conducted Test

Please refer to Appendix A.



3.2 Conducted Output Power Measurement and ERP Measurement

3.2.1 Description of the Conducted Output Power Measurement and ERP Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The conducted output power of mobile transmitters must not exceed 100 Watts for LTE Band 26.

According to KDB 412172 D01 Power Approach,

 $EIRP = P_T + G_T - L_C$, where

- P_T = transmitter output power in dBm
- G_T = gain of the transmitting antenna in dBi

 L_{C} = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.2.2 Test Procedures

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

3.3 Field Strength of Spurious Radiation Measurement

3.3.1 Description of Field Strength of Spurious Radiated Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E. The power of any emission FCC Part 90.691 on any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43+10log₁₀(P[Watts]) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

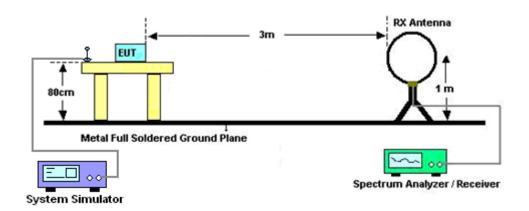
3.3.2 Test Procedures

- 1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- 2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
- For testing below 1GHz, make the measurement with the spectrum analyzer's RBW = 100 kHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
- 6. For testing above 1GHz, make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
- 7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 9. Taking the record of output power at antenna port.
- 10. Repeat step 7 to step 8 for another polarization.
- 11. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 12. ERP (dBm) = EIRP 2.15
- 13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 14. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

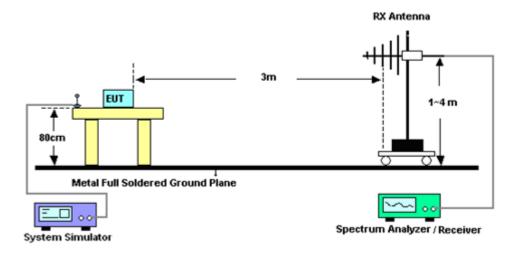


3.3.3 Test Setup

For radiated test below 30MHz

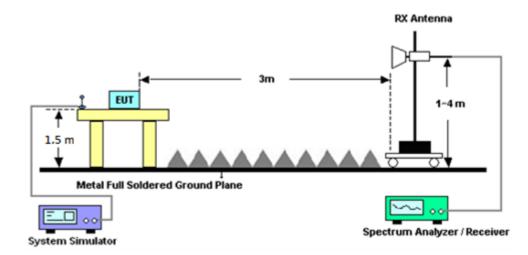


For radiated test from 30MHz to 1GHz





For radiated test above 1GHz



3.3.4 Test Result of Field Strength of Spurious Radiated

Please refer to Appendix B.

Note:

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.



List of Measuring Equipment 4

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 04, 2021	Nov. 13, 2021~ Nov. 18, 2021	Jan. 03, 2022	Radiation (03CH15-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	37059 & 01	30MHz~1GHz	Oct. 09, 2021	Nov. 13, 2021~ Nov. 18, 2021	Oct. 08, 2022	Radiation (03CH15-HY)
Bilog Antenna	TESEQ	CBL6111D&00 800N1D01N-0 6	41912 & 05	30MHz to 1GHz	Feb. 08, 2021	Nov. 13, 2021~ Nov. 18, 2021	Feb. 07, 2022	Radiation (03CH15-HY)
Amplifier	SONOMA	310N	363440	9kHz~1GHz	Dec. 28, 2020	Nov. 13, 2021~ Nov. 18, 2021	Dec. 27, 2021	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-01620	1-18GHz	Oct. 25, 2021	Nov. 13, 2021~ Nov. 18, 2021	Oct. 24, 2022	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1326	1GHz~18GHz	Oct. 25, 2021	Nov. 13, 2021~ Nov. 18, 2021	Oct. 24, 2022	Radiation (03CH15-HY)
Preamplifier	Jet-Power	JPA0118-55-3 03	171000180005 5006	1GHz~18GHz	May 06, 2021	Nov. 13, 2021~ Nov. 18, 2021	May 05, 2022	Radiation (03CH15-HY)
Preamplifier	Keysight	83017A	MY53270195	1GHz~26.5GHz	Aug. 19, 2021	Nov. 13, 2021~ Nov. 18, 2021	Aug. 18, 2022	Radiation (03CH15-HY)
Spectrum Analyzer	Keysight	N9038A	MY54130085	20MHz~8.4GHz	Oct. 21, 2021	Nov. 13, 2021~ Nov. 18, 2021	Oct. 20, 2022	Radiation (03CH15-HY
Spectrum Analyzer	Keysight	N9010A	MY54200485	10Hz~44GHz	Mar. 05, 2021	Nov. 13, 2021~ Nov. 18, 2021	Mar. 04, 2022	Radiation (03CH15-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Nov. 13, 2021~ Nov. 18, 2021	N/A	Radiation (03CH15-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Nov. 13, 2021~ Nov. 18, 2021	N/A	Radiation (03CH15-HY)
Software	Audix	E3 6.2009-8-24 (k5)	RK-000451	N/A	N/A	Nov. 13, 2021~ Nov. 18, 2021	N/A	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104, 102E	MY36980/4,M Y9838/4PE,50 8405/2E	30MHz~18G	Nov. 16, 2020	Nov. 13, 2021~ Nov. 14, 2021	Nov. 15, 2021	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104, 102E	MY36980/4,M Y9838/4PE,50 8405/2E	30MHz~18G	Nov. 15, 2021	Nov. 15, 2021~ Nov. 18, 2021	Nov. 14, 2022	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz-40GHz	Feb. 22, 2021	Nov. 13, 2021~ Nov. 18, 2021	Feb. 21, 2022	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30MHz-40GHz	Feb. 22, 2021	Nov. 13, 2021~ Nov. 18, 2021	Feb. 21, 2022	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz~30MHz	Mar. 11, 2021	Nov. 13, 2021~ Nov. 18, 2021	Mar. 10, 2022	Radiation (03CH15-HY)
Filter	Wainwright	WLK4-1000-15 30-8000-40SS	SN12	1.53GHz Low Pass Filter	Sep. 14, 2021	Nov. 13, 2021~ Nov. 18, 2021	Sep. 13, 2022	Radiation (03CH15-HY)
Filter	Wainwright	WHKX12-935- 1000-15000-4 0ST	SN1	1GHz High Pass Filter	Apr. 29, 2021	Nov. 13, 2021~ Nov. 18, 2021	Apr. 28, 2022	Radiation (03CH15-HY)
Filter	Wainwright	WHKX12-2700 -3000-18000-6 0ST	SN4	3GHz High Pass Filter	Sep. 15, 2021	Nov. 13, 2021~ Nov. 18, 2021	Sep. 14, 2022	Radiation (03CH15-HY)
Signal Generator	Anritsu	MG3694C	163401	0.1Hz~40GHz	Jan. 31, 2021	Nov. 13, 2021~ Nov. 18, 2021	Jan. 30, 2022	Radiation (03CH15-HY)
Base Station (Measure)	Anritsu	MT8821C	6262025341	N/A	Oct. 05, 2021	Oct. 27, 2021	Oct. 04, 2022	Conducted (TH03-HY)



5 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.92 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of	3.72 dB
Confidence of 95% (U = 2Uc(y))	3.72 UB

Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power) & ERP

	LTE B	Band 26 Ma	aximum Av	verage Pov	ver [dBm]	(GT - LC =	-1.56 dB)		
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)	
15	1	0		23.70	-	-			
15	1	37		23.68	-	-	-		
15	1	74		23.60	-	-			
15	36	0	QPSK	22.71	-	-	19.99	0.0998	
15	36	20		22.69	-	-			
15	36	39		22.62	-	-			
15	75	0		22.60	-	-			
15	1	0		22.52	-	-	-		
15	1	37		22.52	-	-			
15	1	74		22.53	-	-			
15	36	0	16-QAM	22.53	-	-	18.82	0.0762	
15	36	20		21.68	-	-			
15	36	39		21.59	-	-			
15	75	0		21.71	-	-			
Limit	Conduc	ted power	< 100W		Result		Pa	ISS	

	LTE E	Band 26 Ma	aximum Av	verage Pov	ver [dBm]	(GT - LC =	-1.56 dB)	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0		-	23.69	-		
10	1	25		-	23.75	-		
10	1	49		-	23.74	-		
10	25	0	QPSK	-	22.87	-	20.04	0.1009
10	25	12		-	22.60	-		
10	25	25		-	22.79	-		
10	50	0		-	22.89	-		
10	1	0		-	22.52	-	-	
10	1	25		-	22.61	-		
10	1	49		-	22.55	-		
10	25	0	16-QAM	-	21.53	-	18.90	0.0776
10	25	12		-	21.67	-		
10	25	25		-	21.82	-		
10	50	0		-	21.75	-		
Limit	Conduc	ted power	< 100W		Result		Pa	ISS



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	LTE B	Band 26 Ma	aximum Av	verage Pov	wer [dBm]	(GT - LC =	-1.56 dB)	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0		23.68	23.74	23.70		
5	1	12		23.73	23.68	23.70		
5	1	24		23.58	23.70	23.71		
5	12	0	QPSK	22.78	22.93	22.74	20.03	0.1007
5	12	7		22.65	22.63	22.84		
5	12	13		22.53	22.74	22.75		
5	25	0		22.55	22.71	22.72		
5	1	0		22.94	22.50	22.52	-	
5	1	12		22.60	22.62	22.61		
5	1	24		22.59	22.51	22.83		
5	12	0	16-QAM	22.43	21.51	21.75	19.23	0.0838
5	12	7		21.66	21.76	21.69		
5	12	13		21.69	21.68	21.86		
5	25	0		21.81	21.90	21.92		
Limit	Conduc	ted power	< 100W		Result		Pa	ass

	LTE B	Band 26 M	aximum Av	verage Pov	ver [dBm]	(GT - LC =	-1.56 dB)		
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)	
3	1	0		23.73	23.75	23.70			
3	1	8		23.58	23.67	23.75	-		
3	1	14		23.52	23.74	23.66			
3	8	0	QPSK	22.61	22.78	22.75	20.04	0.1009	
3	8	4		22.79	22.67	22.84			
3	8	7		22.52	22.91	22.73			
3	15	0		22.50	22.90	22.73			
3	1	0		22.57	22.59	22.52	-		
3	1	8		22.57	22.66	22.59			
3	1	14		22.51	22.54	22.67			
3	8	0	16-QAM	22.55	21.51	21.78	18.96	0.0787	
3	8	4		21.61	21.68	21.81			
3	8	7		21.52	21.74	22.01	1		
3	15	0		21.75	21.86	21.91			
Limit	Conduc	ted power	< 100W		Result		Pa	ISS	



Report No. : FG1O1802D

	LTE B	Band 26 Ma	aximum Av	verage Pov	ver [dBm]	(GT - LC =	-1.56 dB)	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
1.4	1	0		23.67	23.69	23.71		
1.4	1	3		23.67	23.71	23.65	1	
1.4	1	5		23.64	23.75	23.69		
1.4	3	0	QPSK	23.63	23.69	23.76	20.05	0.1012
1.4	3	1		23.68	23.70	23.68		
1.4	3	3		23.67	23.75	23.74		
1.4	6	0		22.64	22.77	22.82		
1.4	1	0		22.64	22.77	22.83	-	
1.4	1	3		22.73	22.76	22.78		
1.4	1	5		22.65	22.83	22.85		
1.4	3	0	16-QAM	22.80	22.85	22.82	19.14	0.0820
1.4	3	1		22.79	22.68	22.68		
1.4	3	3		22.67	22.78	22.67		
1.4	6	0		21.71	21.73	21.70		
Limit	Conduc	ted power	< 100W		Result		Pa	ass



Appendix B. Test Results of Radiated Test

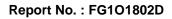
			L	TE Band 26	/ 5MHz / QP	SK			
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
	1632	-58.07	-13	-45.07	-61.04	-63.25	1.82	9.16	Н
	2440	-43.57	-13	-30.57	-49.64	-49.65	2.23	10.46	Н
	3257	-63.60	-13	-50.60	-72.03	-70.97	2.60	12.13	Н
									Н
									Н
Lowest									Н
Lowesi	1632	-61.32	-13	-48.32	-64.75	-66.50	1.82	9.16	V
	2440	-43.21	-13	-30.21	-49.73	-49.29	2.23	10.46	V
	3257	-62.93	-13	-49.93	-71.78	-70.30	2.60	12.13	V
									V
									V
									V
	1632	-55.70	-13	-42.70	-58.67	-60.88	1.82	9.16	Н
	2448	-41.93	-13	-28.93	-48.05	-48.04	2.24	10.49	Н
	3267	-63.55	-13	-50.55	-71.96	-70.96	2.61	12.17	Н
									Н
									Н
Middle									Н
wildule	1632	-58.70	-13	-45.70	-62.13	-63.88	1.82	9.16	V
	2448	-42.12	-13	-29.12	-48.63	-48.23	2.24	10.49	V
	3267	-62.58	-13	-49.58	-71.41	-69.99	2.61	12.17	V
									V
									V
									V

LTE Band 26



	1640	-54.44	-13	-41.44	-57.44	-59.68	1.83	9.22	Н
	2456	-43.27	-13	-30.27	-49.45	-49.42	2.24	10.54	Н
	3277	-63.76	-13	-50.76	-72.14	-71.21	2.61	12.21	Н
									Н
									Н
Llighoot									Н
Highest	1640	-58.06	-13	-45.06	-61.51	-63.30	1.83	9.22	V
	2456	-44.10	-13	-31.10	-50.62	-50.25	2.24	10.54	V
	3277	-62.01	-13	-49.01	-70.81	-69.46	2.61	12.21	V
									V
									V
									V

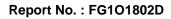
Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.





			Ľ	TE Band 26 /	/ 10MHz / QP	PSK			
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
	1640	-54.82	-13	-41.82	-57.82	-60.06	1.83	9.22	Н
	2456	-41.24	-13	-28.24	-47.42	-47.39	2.24	10.54	Н
	3276	-63.57	-13	-50.57	-71.96	-71.01	2.61	12.20	Н
									Н
									Н
									Н
Middle									Н
Middle	1640	-57.40	-13	-44.40	-60.85	-62.64	1.83	9.22	V
	2456	-42.88	-13	-29.88	-49.4	-49.03	2.24	10.54	V
	3276	-62.82	-13	-49.82	-71.62	-70.26	2.61	12.20	V
									V
									V
									V
									V

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





			Ľ	TE Band 26 /	/ 15MHz / QF	PSK			
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
	1632	-58.69	-13	-45.69	-61.66	-63.87	1.82	9.16	Н
	2448	-41.17	-13	-28.17	-47.29	-47.28	2.24	10.49	Н
	3259	-63.65	-13	-50.65	-72.07	-71.03	2.60	12.14	Н
									Н
									Н
									Н
Lowest									Н
Lowest	1632	-61.24	-13	-48.24	-64.67	-66.42	1.82	9.16	V
	2448	-43.07	-13	-30.07	-49.58	-49.18	2.24	10.49	V
	3259	-62.69	-13	-49.69	-71.53	-70.07	2.60	12.14	V
									V
									V
									V
									V

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