



FCC RADIO TEST REPORT

FCC ID : QYLLN920F12
Equipment : WWAN Module
Brand Name : Getac
Model Name : LN920A12-WW
Applicant : Getac Technology Corporation.
5F., Building A, No. 209, Sec.1, Nangang Rd., Nangang Dist.,
Taipei City 115018, Taiwan, R.O.C.
Standard : FCC 47 CFR Part 2, 27

The product was received on Feb. 06, 2026 and testing was performed from Feb. 12, 2026 to Feb. 25, 2026. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this variant report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issue Date
FG552221-01	01	Initial issue of report	Mar. 10, 2026
FG552221-01	02	Revise Antenna Gain This report is an updated version, replacing the report issued on Mar. 10, 2026.	Mar. 26, 2026



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Pass	-
	§27.1507 (a)	Effective Radiated Power (Band 106)	Pass	-
-	§27.1507 (d)	Peak-to-Average Ratio	Pass	See Note
-	§2.1049 §27.1506	Occupied Bandwidth	Pass	See Note
-	§2.1051 §27.1509 (a)	Conducted Band Edge Measuremen	Pass	See Note
-	§2.1051 §27.1509 (a)	Conducted Spurious Emission	Pass	See Note
-	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Pass	See Note
4.2	§2.1053 §27.1509 (a)	Radiated Spurious Emission	Pass	-

Note:

1. This is a variant report by adding LTE Band 106. All the test cases were performed on original report which can be referred to Sporton Report Number FG552221B.
2. For host device, Radiated Spurious Emission, Effective Radiated Power and Equivalent Isotropic Radiated Power are verified and complies with the limit in this test report.
3. For host device, the Conducted Output Power is no difference after compared to module (Model: LN920A12-WW)

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Yun Huang

Report Producer: Dara Chiu



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
General Specs WCDMA/LTE and GNSS	
Antenna Type WWAN: PIFA Antenna	
Sample 1	EUT with Host 1
Sample 2	EUT with Host 2

Support band and evaluated information	
Supported band	B106
Evaluated and Tested band	B106

Antenna information		
Band	Main	Aux.
B106	0.13	-2.07

Remark: The above EUT's information was declared by manufacturer. Please refer to Disclaimer in report summary.



The product was installed into Tablet (Brand Name: Getac, Model Name: F120, F120Y (Y= 10 characters, Y can be 0-9, a-z, A-Z, “-“, “_” or blank for marketing purpose and no impact safety related critical components and constructions.)) during test, and the host information was recorded in the following table.

Host Information	
Host 1	Host with SKU B
Host 2	Host with SKU C

DVT SKUs	SKU B	SKU C
CPU	ULTRA5-236V	ULTRA7-268V
DDR	INTEGRATED 16GB	INTEGRATED 32GB
SSD	512GB	1TB
PANEL	Full FHD AUO	Full FHD AUO
DIGITIZER	EMRright Digitizer	EMRright Digitizer
OPTION BAY	Barcode Reader	Barcode Reader
Expansion Bay	HID RFID	SMART CARD
Right side option	Fingerprinter	RFID (SN-NSVG7-C01)
WLAN/BT	Intel BE201NGW	Intel BE201NGW
WWAN	LN920A12-WW	LN920A12-WW
GNSS	LN920A12-WW	LN920A12-WW
Rear 8M Camera	Support	Support
Webcam FHD	Support	Support
USB3.2 Gen2 x 1 Type-A	Support	Support
Type-C (thunder bolt)	Support	Support

1.2 Modification of EUT

No modifications made to the EUT during the testing.



1.3 Testing Location

Test Site	Sporton International Inc. Wensan Laboratory.	
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855	
Test Site No.	Sporton Site No.	
	TH05-HY	03CH11-HY
Test Engineer	Yuki Chen	Jack Cheng and Ray Lung
Temperature (°C)	22.3~22.9	21.4~23.6
Relative Humidity (%)	53.2~55.5	51.8~61.3

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

FCC Designation No.: TW1190 and TW3786

1.4 Applicable Standards

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

- ♦ ANSI C63.26-2015
- ♦ FCC 47 CFR Part 2, 27
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
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

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and only the worst case emissions were reported in this report..

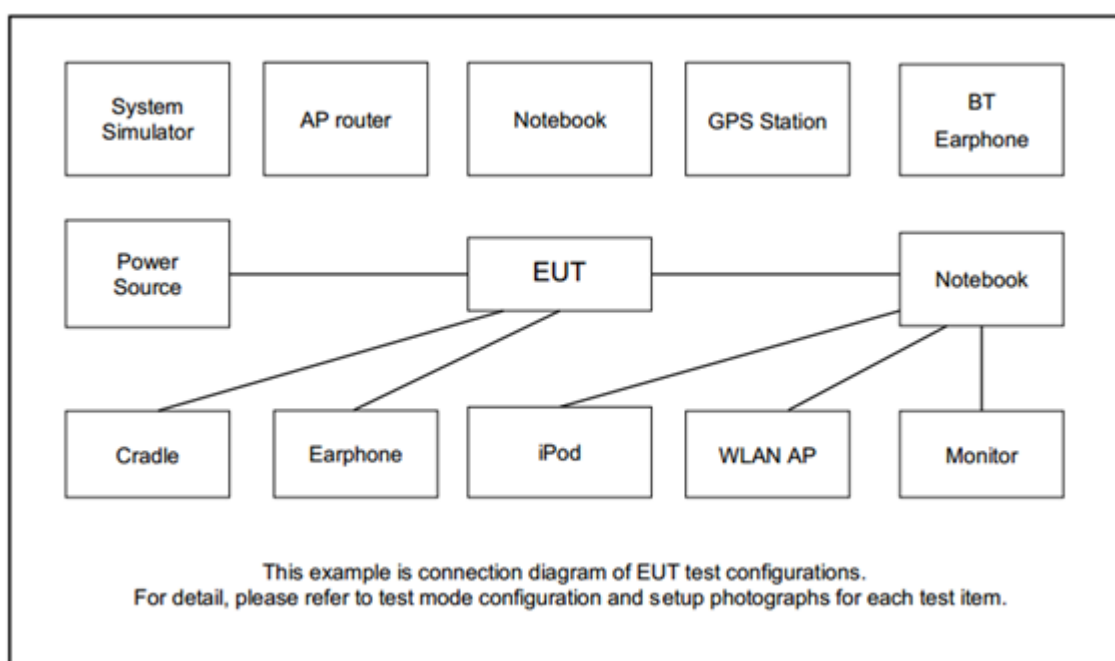
Modulation Type	Modulation
A	QPSK
B	16QAM
C	64QAM

Test Item	Modulation Type	Bandwidth	RB Size	Channel
Conducted Power	A, B, C	All	1, Half, Full	L, M, H
ERP	A, B, C	All	1, Half, Full	L, M, H
RSE	A	1.4 MHz	1RB	M

Remark:

1. Evaluated all the transmitter signal and reporting worst-case configuration among all modulation types.
2. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst-case emissions are reported.
3. All the radiated test cases were performed with SKU B, Adapter 1, and Battery 1.

2.2 Connection Diagram of Test System





2.3 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m

2.4 Frequency List of Low/Middle/High Channels

Band 106 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
3	Channel	-	134322	-
	Frequency	-	899	-
1.4	Channel	134314	134322	134330
	Frequency	898.2	899	899.8

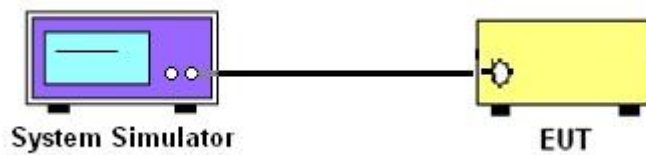
3 Conducted Test Items

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 and ERP

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 force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 106.

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, 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 the 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.

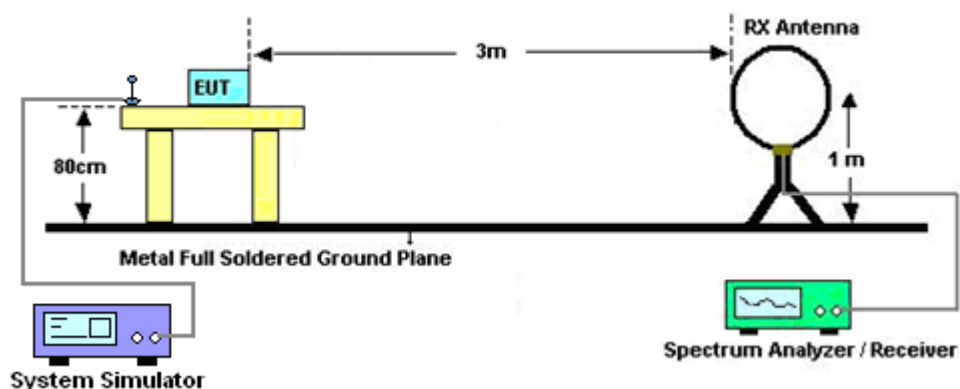
4 Radiated Test Items

4.1 Measuring Instruments

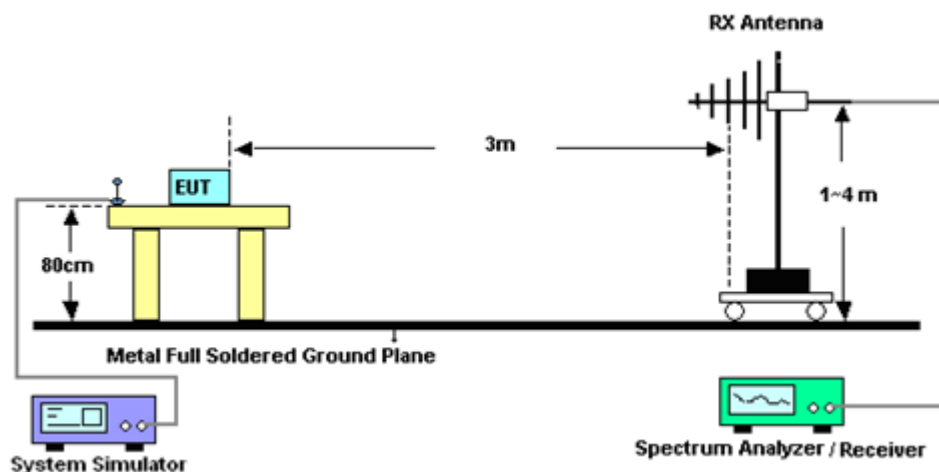
See list of measuring instruments of this test report.

4.1.1 Test Setup

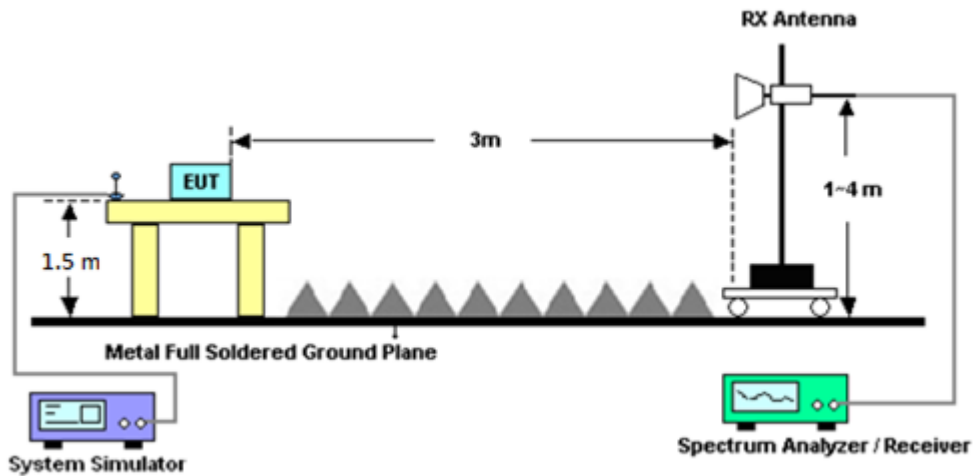
For radiated test below 30MHz



For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



4.1.2 Test Result of Radiated Test

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.



4.2 Radiated Spurious Emission Measurement

4.2.1 Description of Radiated Spurious Emission Measurement

The radiated spurious emission was measured by substitution method according to ANSI C63.26-2015.

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 $43 + 10 \log (P)$ dB.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.2.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI C63.26-2015 section 5.5.4 Radiated measurement using the field strength method.

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.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. To convert spectrum reading E(dBuV/m) to EIRP(dBm)
$$\text{EIRP(dBm)} = \text{Level (dBuV/m)} + 20\log(d) - 104.77,$$
where d is the distance at which field strength limit is specified in the rules
7.
$$\text{Field Strength Level (dBm)} = \text{Spectrum Reading (dBm)} + \text{Antenna Factor} + \text{Cable Loss} + \text{Read Level} - \text{Preamplifier Factor}.$$
8.
$$\text{ERP (dBm)} = \text{EIRP (dBm)} - 2.15$$
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)



5 List of Measuring Equipment

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	Mar. 06, 2025	Feb. 24, 2026~ Feb. 25, 2026	Mar. 05, 2026	Radiation (03CH21-HY)
Bilog Antenna	TESEQ & WOKEN	CBL 6111D & 00802N1D-06	63303 & 001	30MHz~1GHz	Nov. 26, 2025	Feb. 24, 2026~ Feb. 25, 2026	Nov. 25, 2026	Radiation (03CH21-HY)
Double Ridged Guide Horn Antenna	RFSPIN	DRH18-E	LE2C03A18E N	1GHz~18GHz	Aug. 07, 2025	Feb. 24, 2026~ Feb. 25, 2026	Aug. 06, 2026	Radiation (03CH21-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1223	18GHz~40GHz	Jul. 02, 2025	Feb. 24, 2026~ Feb. 25, 2026	Jul. 01, 2026	Radiation (03CH21-HY)
Amplifier	SONOMA	310N	421580	30MHz~1GHz	Jul. 13, 2025	Feb. 24, 2026~ Feb. 25, 2026	Jul. 12, 2026	Radiation (03CH21-HY)
Amplifier	EMEC	EM01G18GA	060876	1GHz~18GHz	Sep. 26, 2025	Feb. 24, 2026~ Feb. 25, 2026	Sep. 25, 2026	Radiation (03CH21-HY)
Preamplifier	EMEC	EM18G40G	060873	18GHz~40GHz	Aug. 26, 2025	Feb. 24, 2026~ Feb. 25, 2026	Aug. 25, 2026	Radiation (03CH21-HY)
EXA Signal Analyzer	Keysight	N9010B	MY62170358	10Hz~44GHz	Sep. 09, 2025	Feb. 24, 2026~ Feb. 25, 2026	Sep. 08, 2026	Radiation (03CH21-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 05, 2025	Feb. 24, 2026~ Feb. 25, 2026	Mar. 04, 2026	Radiation (03CH21-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804397/2,804612/2,803954/2	30MHz~40GHz	Aug. 11, 2025	Feb. 24, 2026~ Feb. 25, 2026	Aug. 10, 2026	Radiation (03CH21-HY)
RF Cable	EMCI	EMC101Y-KM-KM-1000	240906	30MHz~40GHz	Oct. 21, 2025	Feb. 24, 2026~ Feb. 25, 2026	Oct. 20, 2026	Radiation (03CH21-HY)
Hygrometer	TECPEL	DTM-303A	TP211568	N/A	Oct. 21, 2025	Feb. 24, 2026~ Feb. 25, 2026	Oct. 20, 2026	Radiation (03CH21-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Feb. 24, 2026~ Feb. 25, 2026	N/A	Radiation (03CH21-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Feb. 24, 2026~ Feb. 25, 2026	N/A	Radiation (03CH21-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Feb. 24, 2026~ Feb. 25, 2026	N/A	Radiation (03CH21-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Feb. 24, 2026~ Feb. 25, 2026	N/A	Radiation (03CH21-HY)
Radio Communication Analyzer	Anritsu	MT8821C	6262025341	LTE FDD/TDD LTE-2CC ULCA/DLCA	Sep. 16, 2025	Feb. 12, 2026	Sep. 15, 2026	Conducted (TH05-HY)
DC Power Supply	GW Instek	GPE-2323	GET861546	0V~64V ; 0A~6A	Jun. 03, 2025	Feb. 12, 2026	Jun. 02, 2026	Conducted (TH05-HY)
Coupler	MVE	MVE4816	#Z	0.009MHz~18GHz	Oct. 16, 2025	Feb. 12, 2026	Oct. 15, 2026	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101907	10Hz~40GHz	Aug. 25, 2025	Feb. 12, 2026	Aug. 24, 2026	Conducted (TH05-HY)
Thermal Chamber	ESPEC	SU-241	92003713	-30℃ ~95℃	May 12, 2025	Feb. 12, 2026	May 11, 2026	Conducted (TH05-HY)
Power divider	Anritsu	K241C	2143398	9KHz~40GHz	Jun. 13, 2025	Feb. 12, 2026	Jun. 12, 2026	Conducted (TH05-HY)
Software	Sporton	LTE Conducted Test Tools	N/A	Conducted Test Item	N/A	Feb. 12, 2026	N/A	Conducted (TH05-HY)
Hygrometer	TECPEL	DTM-303B	TP200886	-10 ~ 50℃ / 20 ~ 95%RH	Mar. 03, 2025	Feb. 12, 2026	Mar. 02, 2026	Conducted (TH05-HY)



6 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.40 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 6 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.80 dB
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Uncertainty of Radiated Emission Measurement (6 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.80 dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power (Average power and ERP)

Part 27P LTE Band 106 Maximum Average Power [dBm] (GT - LC = 0.13 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
3	1	0	QPSK	-	22.72	-	20.70	0.1175
3	1	8		-	22.70	-		
3	1	14		-	22.66	-		
3	8	0		-	21.74	-		
3	8	4		-	21.78	-		
3	8	7		-	21.72	-		
3	15	0		-	21.77	-		
3	1	0	16-QAM	-	22.02	-	20.00	0.1000
3	1	8		-	21.98	-		
3	1	14		-	21.91	-		
3	8	0		-	20.86	-		
3	8	4		-	20.86	-		
3	8	7		-	20.84	-		
3	15	0		-	20.78	-		
3	1	0	64-QAM	-	20.86	-	18.90	0.0776
3	1	8		-	20.92	-		
3	1	14		-	20.87	-		
3	8	0		-	19.87	-		
3	8	4		-	19.81	-		
3	8	7		-	19.80	-		
3	15	0		-	19.77	-		
Limit	ERP < 3W			Result			Pass	

Part 27P LTE Band 106 Maximum Average Power [dBm] (GT - LC = 0.13 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
1.4	1	0	QPSK	22.63	22.70	22.62	20.68	0.1169
1.4	1	3		22.64	22.66	22.61		
1.4	1	5		22.53	22.59	22.53		
1.4	3	0		22.64	22.65	22.60		
1.4	3	1		22.61	22.67	22.65		
1.4	3	3		22.58	22.64	22.63		
1.4	6	0		21.66	21.68	21.64		
1.4	1	0	16-QAM	21.94	21.99	21.98	19.97	0.0993
1.4	1	3		21.90	21.96	21.90		
1.4	1	5		21.85	21.90	21.84		
1.4	3	0		21.66	21.69	21.64		
1.4	3	1		21.68	21.70	21.66		
1.4	3	3		21.63	21.66	21.62		
1.4	6	0		20.71	20.78	20.76		
1.4	1	0	64-QAM	20.84	20.87	20.85	18.94	0.0783
1.4	1	3		20.91	20.96	20.93		
1.4	1	5		20.75	20.81	20.74		
1.4	3	0		20.81	20.82	20.77		
1.4	3	1		20.82	20.86	20.80		
1.4	3	3		20.71	20.78	20.72		
1.4	6	0		19.71	19.73	19.72		
Limit	ERP < 3W			Result			Pass	



Appendix B. Test Results of Radiated Test

B1. Summary of each worse mode

Mode	Band	Part	Ch	Freq (MHz)	Level (dBm)	Det	Ant Factor (dB)	AmplCbl (dB)	Filter (dB)	EIRPCF (dB)	Reading (dBuV)	Limit (dBm)	Margin (dB)	Pol	Ant
1	LTE B106	Part 27P	M	1795	-56.41	RMS	24.70	-25.00	1.09	-95.23	38.03	-13.00	-43.41	H	Main

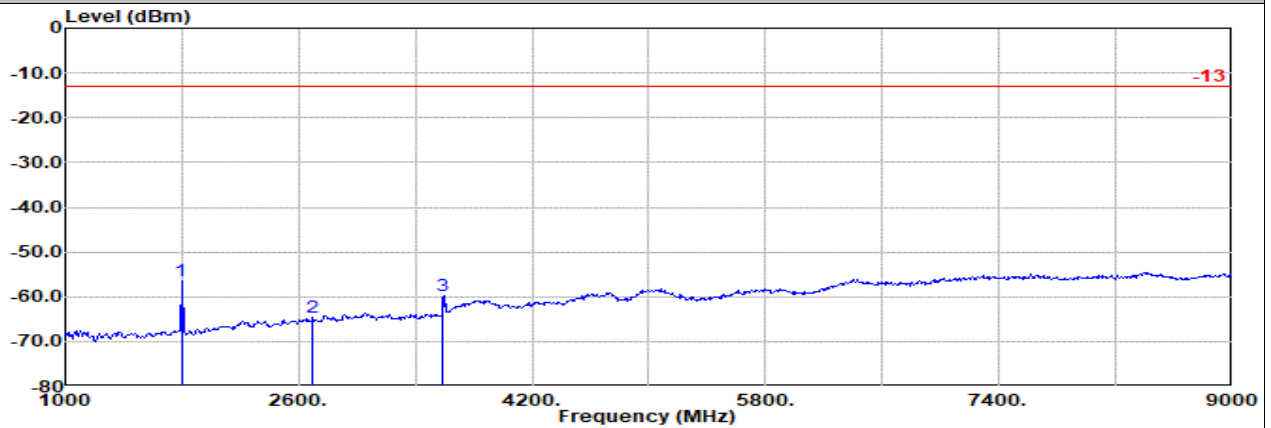


Ant. Main

Part 27P Mode 1

LTE B106 3M Ch134322 1RB0 QPSK

M

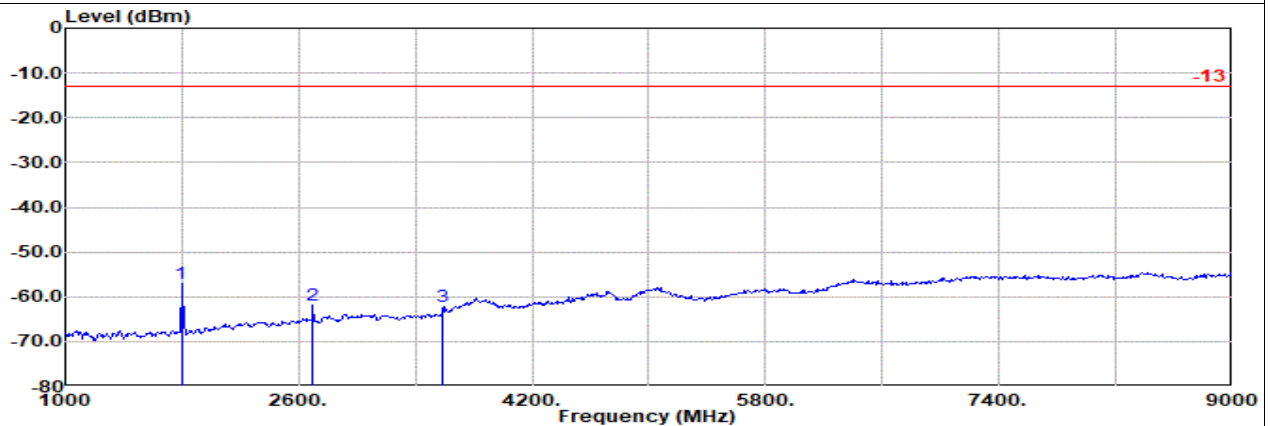


Site : 03CH21-HY

Condition: -13 3m DRH18-E_LE2C03A18EN_250807 Horizontal

: LTE Band 106 3M Ch134322 1RB0 QPSK

	Freq	Level	Detector	Ant Amp\Cb		Filter	EIRPCF	Readin	Limit	Margin	Pol
				Factor	1						
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	1795.00	-56.41	RMS	24.70	-25.00	1.09	-95.23	38.03	-13.00	-43.41	Horizontal
2	2693.00	-64.68	RMS	27.40	-23.95	0.96	-95.23	26.14	-13.00	-51.68	Horizontal
3	3591.00	-59.87	RMS	29.18	-23.98	1.00	-95.23	29.16	-13.00	-46.87	Horizontal



Site : 03CH21-HY

Condition: -13 3m DRH18-E_LE2C03A18EN_250807 Vertical

: LTE Band 106 3M Ch134322 1RB0 QPSK

	Freq	Level	Detector	Ant Amp\Cb		Filter	EIRPCF	Readin	Limit	Margin	Pol
				Factor	1						
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	1795.00	-57.09	RMS	24.70	-25.00	1.09	-95.23	37.35	-13.00	-44.09	Vertical
2	2693.00	-62.00	RMS	27.40	-23.95	0.96	-95.23	28.82	-13.00	-49.00	Vertical
3	3591.00	-62.29	RMS	29.18	-23.98	1.00	-95.23	26.74	-13.00	-49.29	Vertical

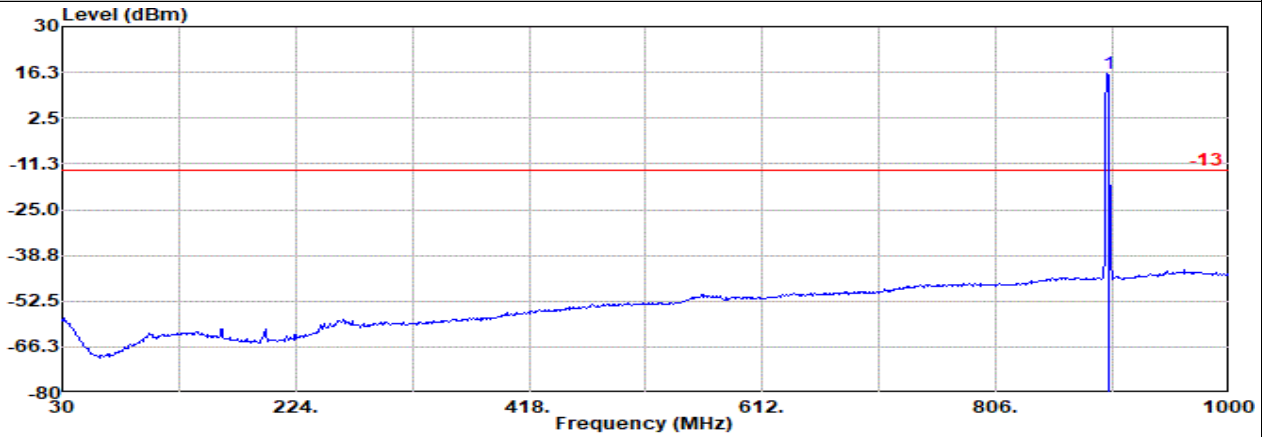


Ant. Main

Part 27P Mode 1

LTE B106 3M Ch134322 1RB0 QPSK

M



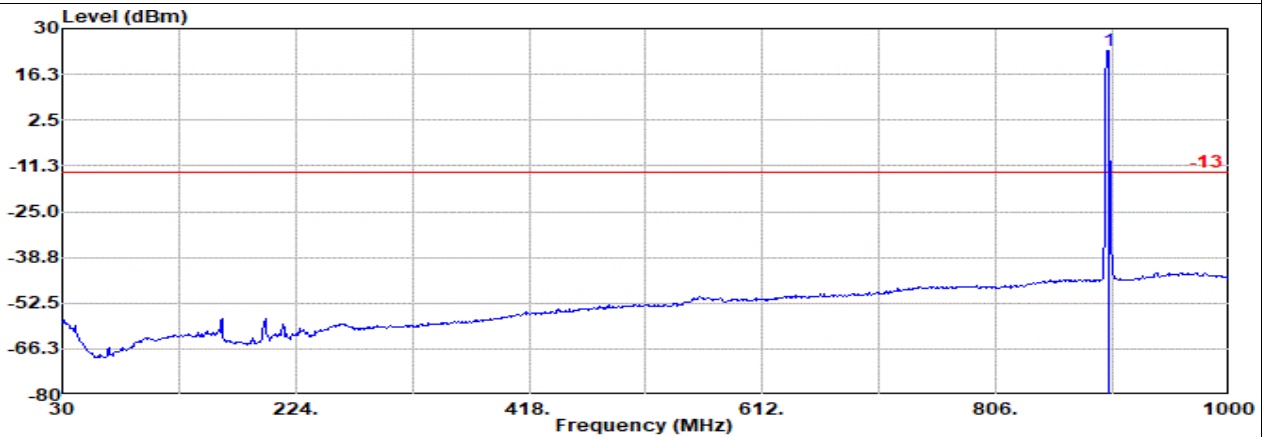
Site : 03CH21-HY

Condition: -13 3m LF_63303&001_251126 Horizontal

: LTE Band 106 3M Ch134322 1RB0 QPSK

: #1 is fundamental signal which can be ignored.

1	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm									
1	899.00	15.74	RMS	29.19	5.24	0.00	-95.23	76.54	-13.00	28.74	Horizontal



Site : 03CH21-HY

Condition: -13 3m LF_63303&001_251126 Vertical

: LTE Band 106 3M Ch134322 1RB0 QPSK

: #1 is fundamental signal which can be ignored.

1	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm									
1	899.00	23.48	RMS	29.19	5.24	0.00	-95.23	84.28	-13.00	36.48	Vertical