

# VARIANT FCC TEST REPORT

## (PART 22)



Applicant:	Fibocom Wireless Inc.
Address:	1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China.

Manufacturer or Supplier:	Fibocom Wireless Inc.
Address:	1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China.
Product:	LTE module
Brand Name:	Fibocom
Model Name:	L850-GLL
FCC ID:	ZMOL850GLL
Date of tests:	Sep. 10, 2021 ~ Sep. 13, 2021

The tests have been carried out according to the requirements of the following standard:

- ☒ **FCC PART 22, Subpart H**    ☒ **FCC Part 2**  
☒ **ANSI/TIA/EIA-603-D**    ☒ **ANSI C63.26-2015**  
☒ **ANSI/TIA/EIA-603-E**

**CONCLUSION:** The submitted sample was found to COMPLY with the test requirement

Prepared by Simon Wang Engineer / Mobile Department	Approved by Luke Lu Manager / Mobile Department
	
Date: Jan. 24, 2022	Date: Jan. 24, 2022

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Test Report No.: W7L-220113W001RF01

## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF170106C02	Original release	Feb. 21, 2017
RF190122W003-1	Based on the original report RF170106C02 change FCC ID	Jan. 17, 2019
W7L-220113W001RF01	Based on the original report RF190122W003-1 Update components , add LTE band 30	Jan. 24, 2022

## 1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 22 & Part 2		
STANDARD SECTION	TEST TYPE	RESULT
§2.1046	Conducted Output Power	(See Note 2)
§22.913 (a)(5)	Effective Radiated Power	(See Note 2)
§2.1055 §22.355	Frequency Stability	(See Note 2)
§2.1049	Occupied Bandwidth	(See Note 2)
§22.913 (d)	Peak to average ratio*	(See Note 2)
§22.917(a)	Band Edge Measurements	(See Note 2)
§2.1051 §22.917(a)	Conducted Spurious Emissions	(See Note 2)
§2.1053 §22.917(a)	Radiated Spurious Emissions	Compliance (See Note 1)

\* Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01.

NOTE:

1. Per the change notice provide by manufactory, the difference is updating components. All the change no effect any RF parameter. Only Radiated Spurious Emissions is verified, all other the data are reused from the original report.
2. Please refer to original report RF170106C02

## 1.1 MEASUREMENT UNCERTAINTY

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

MEASUREMENT	UNCERTAINTY
Maximum Peak Output Power	$\pm 2.06\text{dB}$
Frequency Stability	$\pm 76.97\text{Hz}$
Radiated emissions (30MHz~1GMHz)	$\pm 4.98\text{dB}$
Radiated emissions (1GMHz ~6GMHz)	$\pm 4.70\text{dB}$
Radiated emissions (6GMHz ~18GMHz)	$\pm 4.60\text{dB}$
Radiated emissions (18GMHz ~40GMHz)	$\pm 4.12\text{dB}$
Conducted emissions	$\pm 4.01\text{dB}$
Occupied Channel Bandwidth	$\pm 43.58\text{KHz}$
Band Edge Measurements	$\pm 4.70\text{dB}$
Peak to average ratio	$\pm 0.76\text{dB}$

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

## 1.2 TEST SITE AND INSTRUMENTS

**NOTE :** 1. The FCC Site Registration No. is 525120; The Designation No. is CN1171.

## 2 GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

<b>PRODUCT</b>	LTE module	
<b>BRAND NAME</b>	Fibocom	
<b>MODEL NAME</b>	L850-GLL	
<b>NOMINAL VOLTAGE</b>	3.3Vdc (Form Host Equipment)	
<b>MODULATION TYPE</b>	<b>WCDMA</b>	BPSK
	<b>LTE</b>	QPSK, 16QAM
<b>FREQUENCY RANGE</b>	<b>GSM/GPRS/EDGE</b>	824.2MHz ~ 848.8MHz
	<b>WCDMA</b>	826.4MHz ~ 846.6MHz
	<b>LTE Band 5 (Channel Bandwidth: 1.4MHz)</b>	824.7MHz ~ 848.3MHz
	<b>LTE Band 5 (Channel Bandwidth: 3MHz)</b>	825.5MHz ~ 847.5MHz
	<b>LTE Band 5 (Channel Bandwidth: 5MHz)</b>	826.5MHz ~ 846.5MHz
	<b>LTE Band 5 (Channel Bandwidth: 10MHz)</b>	829MHz ~ 844MHz
	<b>LTE Band 26 (Channel Bandwidth: 1.4MHz)</b>	824.7MHz ~ 848.3MHz
	<b>LTE Band 26 (Channel Bandwidth: 3MHz)</b>	825.5MHz ~ 847.5MHz
	<b>LTE Band 26 (Channel Bandwidth: 5MHz)</b>	826.5MHz ~ 846.5MHz
	<b>LTE Band 26 (Channel Bandwidth: 10MHz)</b>	829MHz ~ 844MHz
	<b>LTE Band 26 (Channel Bandwidth: 15MHz)</b>	831.5MHz ~ 841.5MHz
<b>MAX. ERP POWER</b>	<b>WCDMA</b>	148.25mW
	<b>LTE Band 5 (Channel Bandwidth: 1.4MHz)</b>	145.21mW
	<b>LTE Band 5 (Channel Bandwidth: 3MHz)</b>	146.55mW
	<b>LTE Band 5 (Channel Bandwidth: 5MHz)</b>	149.62mW
	<b>LTE Band 5 (Channel Bandwidth: 10MHz)</b>	152.05mW
	<b>LTE Band 26 (Channel Bandwidth: 1.4MHz)</b>	154.88mW
	<b>LTE Band 26 (Channel Bandwidth: 3MHz)</b>	159.22mW

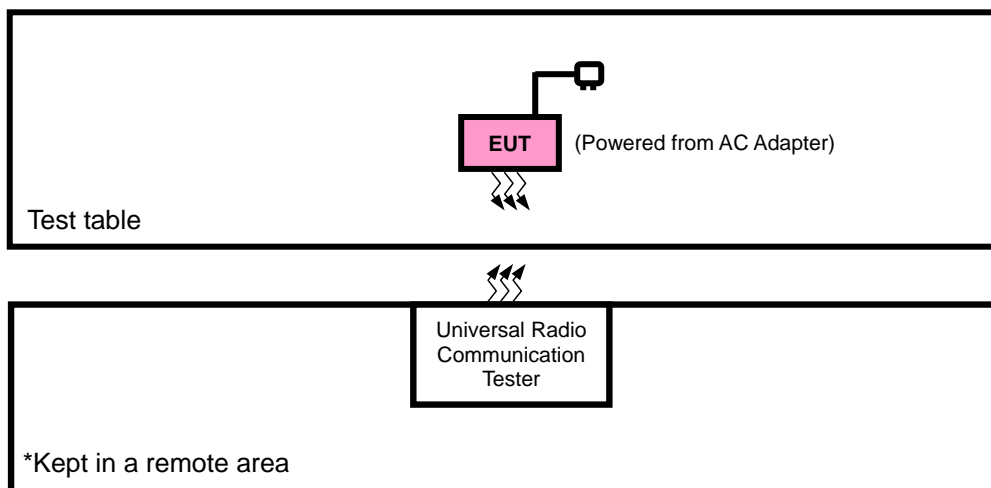


	LTE Band 26 (Channel Bandwidth: 5MHz)	162.55mW
	LTE Band 26 (Channel Bandwidth: 10MHz)	165.58mW
	LTE Band 26 (Channel Bandwidth: 15MHz)	168.66mW
EMISSION DESIGNATOR GOGN	WCDMA	4M08F9W
	LTE Band 5 (Channel Bandwidth: 1.4MHz)	QPSK: 1M09G7D
	LTE Band 5 (Channel Bandwidth: 3MHz)	QPSK: 2M71G7D
	LTE Band 5 (Channel Bandwidth: 5MHz)	QPSK: 4M50G7D
	LTE Band 5 (Channel Bandwidth: 10MHz)	QPSK: 9M00G7D
	LTE Band 26 (Channel Bandwidth: 1.4MHz)	QPSK: 1M09G7D
	LTE Band 26 (Channel Bandwidth: 3MHz)	QPSK: 2M70G7D
	LTE Band 26 (Channel Bandwidth: 5MHz)	QPSK: 4M50G7D
	LTE Band 26 (Channel Bandwidth: 10MHz)	QPSK: 9M00G7D
	LTE Band 26 (Channel Bandwidth: 15MHz)	QPSK: 13M5G7D
ANTENNA TYPE	External Antenna	
HW VERSION	V1.0.4	
SW VERSION	18500.5001.00.05.27.12	
I/O PORTS	Refer to user's manual	
CABLE SUPPLIED	N/A	
EXTREME TEMPERATURE	-10-55 °C	
EXTREME VOLTAGE	3.3V- 4.4V	

**NOTE:**

1. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

## 2.2 CONFIGURATION OF SYSTEM UNDER TEST FOR RADIATION EMISSION





## 2.3 DESCRIPTION OF SUPPORT UNITS

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

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	DC source	Kikusui/JP	PMX18-5A	0000001	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	DC Line: Unshielded, Detachable 1.0m

## 2.4 EUT OPERATING CONDITIONS

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency

## 2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

**FCC 47 CFR Part 2**

**FCC 47 CFR Part 22**

**KDB 971168 D01 Power Meas License Digital Systems v03r01**

**ANSI/TIA/EIA-603-D**

**ANSI/TIA/EIA-603-E**

**ANSI C63.26-2015**

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

### 3 TEST TYPES AND RESULTS

#### 3.1 RADIATED EMISSION MEASUREMENT

##### 3.1.1 LIMITS OF RADIATED EMISSION MEASUREMENT

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. The emission limit equal to  $-13\text{dBm}$ .

##### 3.1.2 TEST PROCEDURES

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

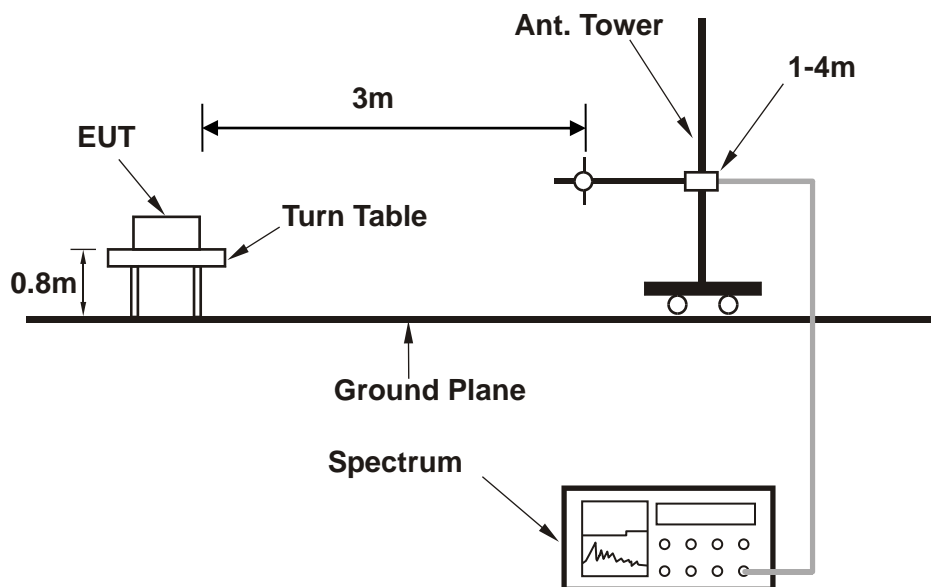
**NOTE:** The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

##### 3.1.3 DEVIATION FROM TEST STANDARD

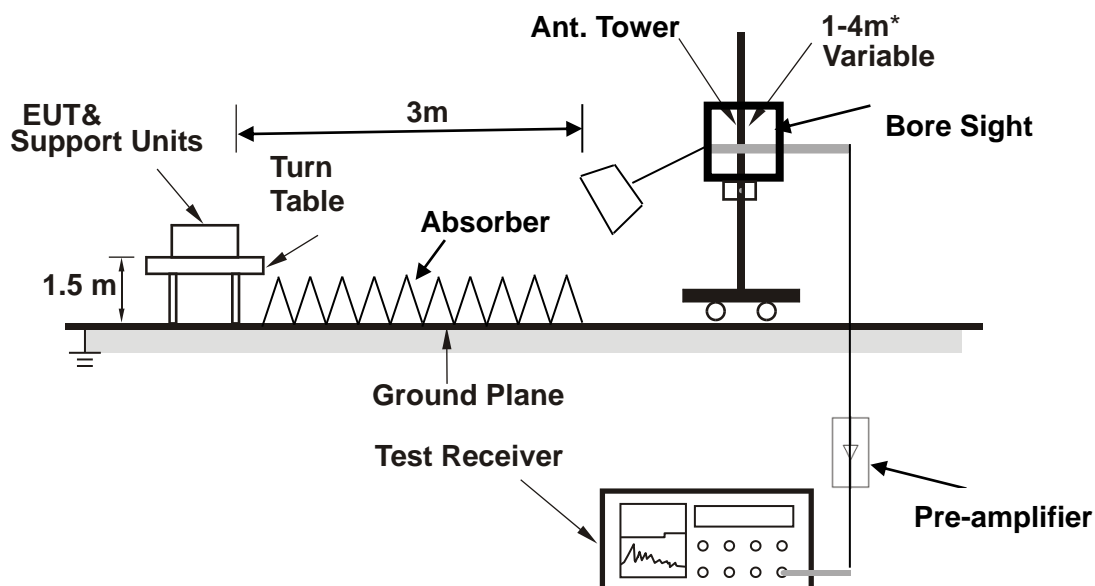
No deviation

### 3.1.4 TEST SETUP

#### < Frequency Range 30MHz~1GHz >



#### <Frequency Range above 1GHz>



**Note:** Above 1G is a directional antenna

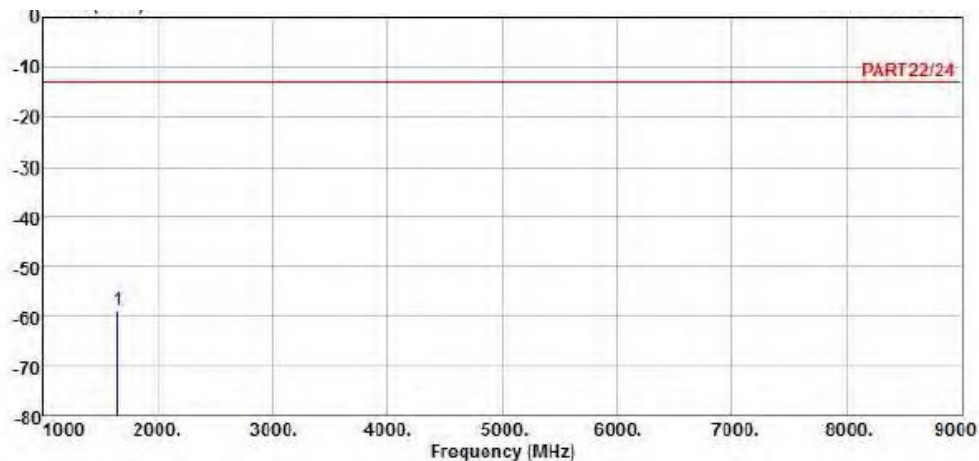
Depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

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

### 3.1.5 TEST RESULTS

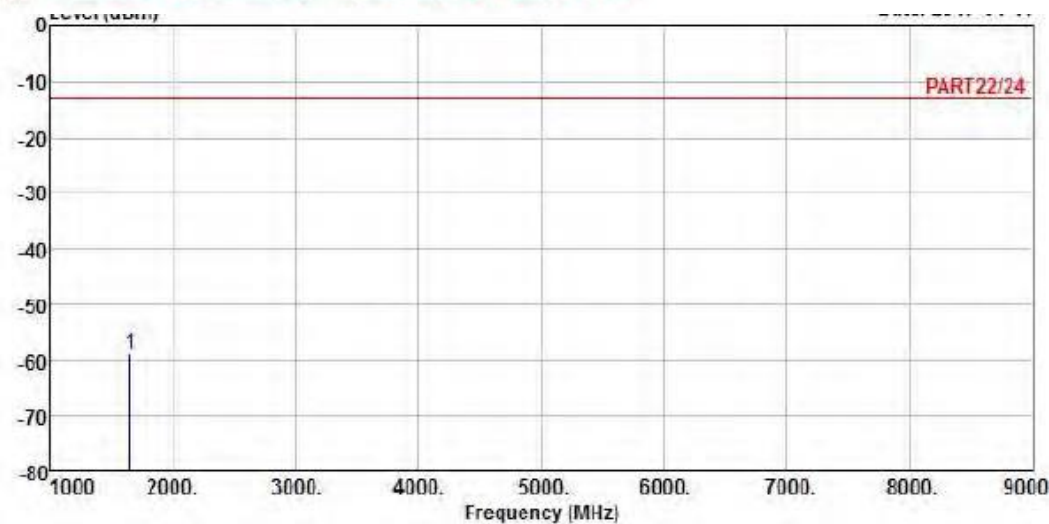
#### WCDMA

##### LOW Channel



Site : 966 Chamber 5  
Condition: PART22/24 HORIZONTAL  
Remak : WCDMA Band V\_L-CH Link  
Tested by: Gavin Wu

Freq	Level	Read	Limit	Over		
MHz	dBm	Level	Line	Limit	Factor	Remark
		dBm	dBm	dB	dB	
1 pp 1649.40	-58.72	-43.99	-13.00	-45.72	-14.73	Peak



Site : 966 Chamber 5  
Condition: PART22/24 VERTICAL  
Remak : WCDMA Band V\_L-CH Link  
Tested by: Gavin Wu

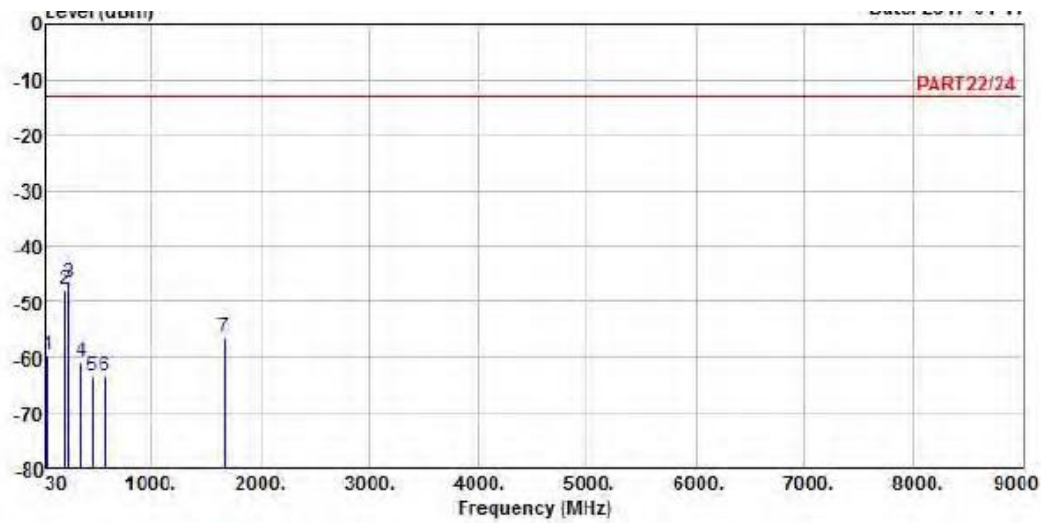
Freq	Level	Read	Limit	Over		
MHz	dBm	Level	Line	Limit	Factor	Remark
		dBm	dBm	dB	dB	
1 pp 1649.40	-58.63	-43.90	-13.00	-45.63	-14.73	Peak



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## Middle Channel



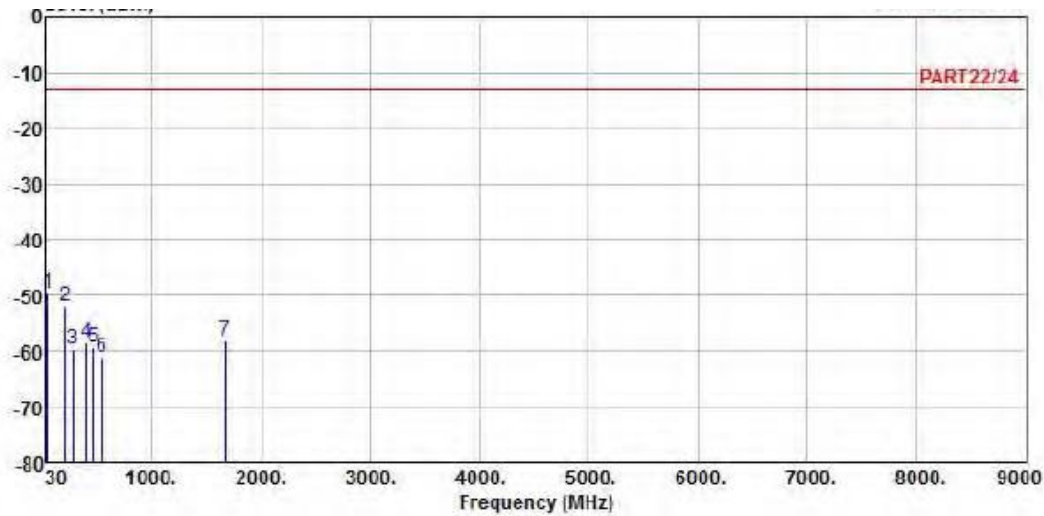
Site : 966 Chamber 5  
Condition: PART22/24 HORIZONTAL  
Remak : WCDMA Band V\_M-CH Link  
Tested by: Gavin Wu

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	41.64	-59.71	-59.30	-13.00	-46.71	-0.41	Peak
2	205.57	-47.91	-40.12	-13.00	-34.91	-7.79	Peak
3 pp	238.55	-46.60	-40.14	-13.00	-33.60	-6.46	Peak
4	358.83	-60.77	-54.58	-13.00	-47.77	-6.19	Peak
5	452.92	-63.43	-57.93	-13.00	-50.43	-5.50	Peak
6	572.23	-63.37	-61.45	-13.00	-50.37	-1.92	Peak
7	1672.80	-56.43	-41.75	-13.00	-43.43	-14.68	Peak



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# Test Report No.: W7L-220113W001RF01

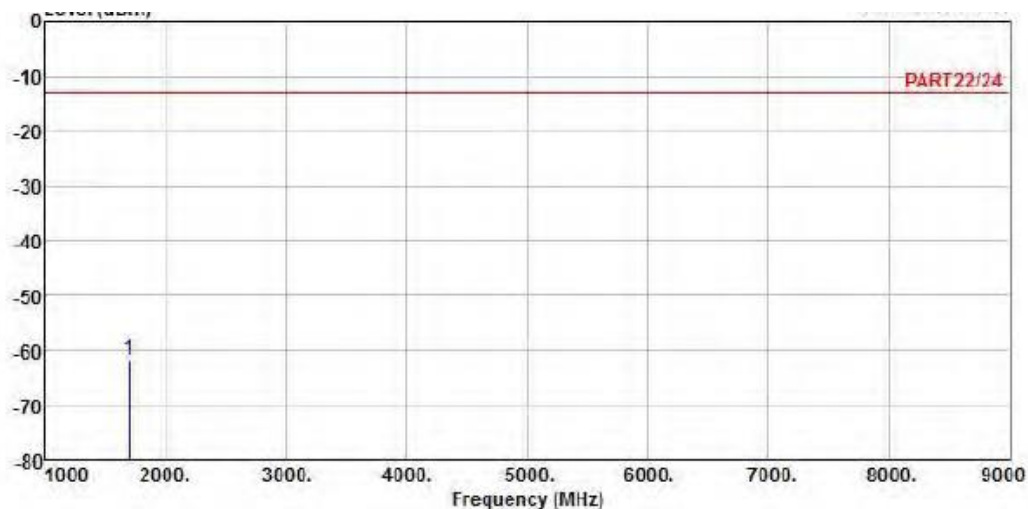


Site : 966 Chamber 5  
Condition: PART22/24 VERTICAL  
Remak : WCDMA Band V\_M-CH Link  
Tested by: Gavin Wu

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	41.64	-49.73	-49.32	-13.00	-36.73	-0.41	Peak
2	207.51	-51.90	-44.19	-13.00	-38.90	-7.71	Peak
3	274.44	-59.66	-53.17	-13.00	-46.66	-6.49	Peak
4	400.54	-58.50	-52.56	-13.00	-45.50	-5.94	Peak
5	462.62	-59.34	-54.02	-13.00	-46.34	-5.32	Peak
6	547.01	-60.98	-58.03	-13.00	-47.98	-2.95	Peak
7	1672.80	-58.18	-43.50	-13.00	-45.18	-14.68	Peak



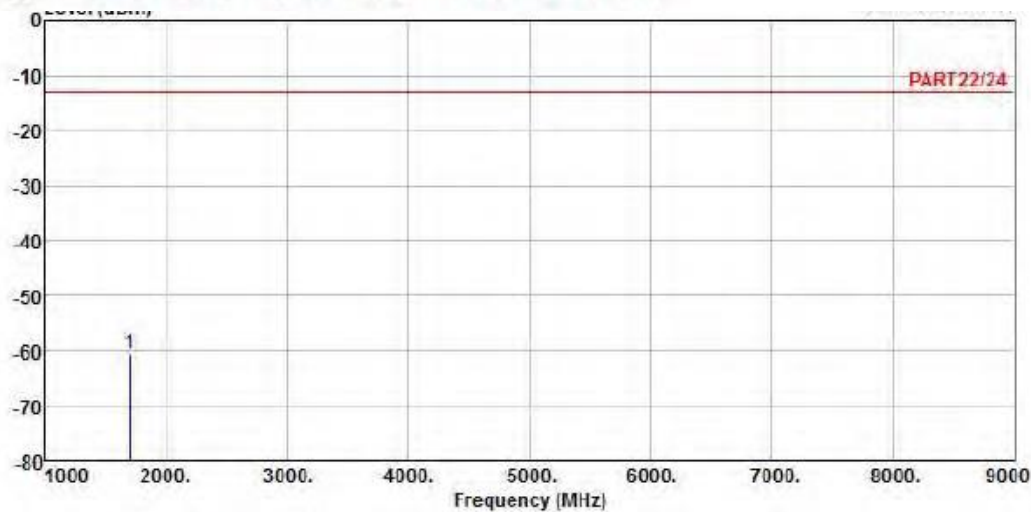
## High Channel



Site : 966 Chamber 5  
Condition: PART22/24 HORIZONTAL  
Remak : WCDMA Band V\_H-CH Link  
Tested by: Gavin Wu

Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	

1 pp 1697.60 -61.60 -47.07 -13.00 -48.60 -14.53 Peak



Site : 966 Chamber 5  
Condition: PART22/24 VERTICAL  
Remak : WCDMA Band V\_H-CH Link  
Tested by: Gavin Wu

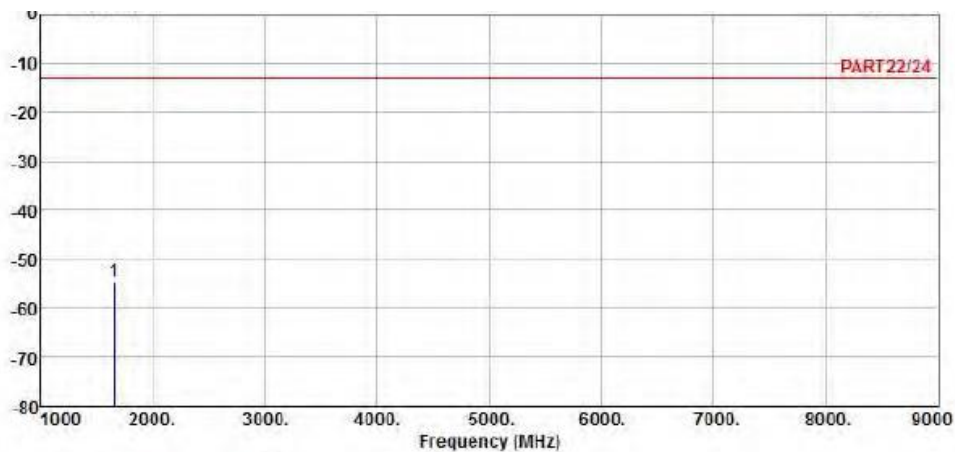
Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	

1 pp 1697.60 -60.41 -45.88 -13.00 -47.41 -14.53 Peak

## LTE Band 5

CHANNEL BANDWIDTH: 10MHz / QPSK

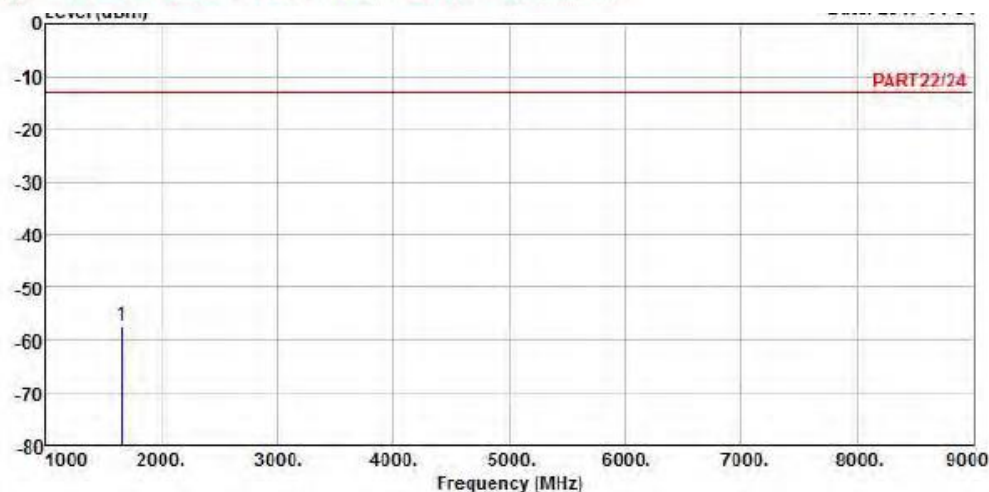
### Low Channel



Site : 966 Chamber 5  
Condition: PART22/24 HORIZONTAL  
Remak : LTE Band V QPSK\_10M\_L-CH Link  
Tested by: Getaz Yang

Freq	Level	Read	Limit	Over		
MHz	dBm	Level	Line	Limit	Factor	Remark
		dBm	dBm	dB	dB	

1 pp 1658.00 -54.51 -39.83 -13.00 -41.51 -14.68 Peak



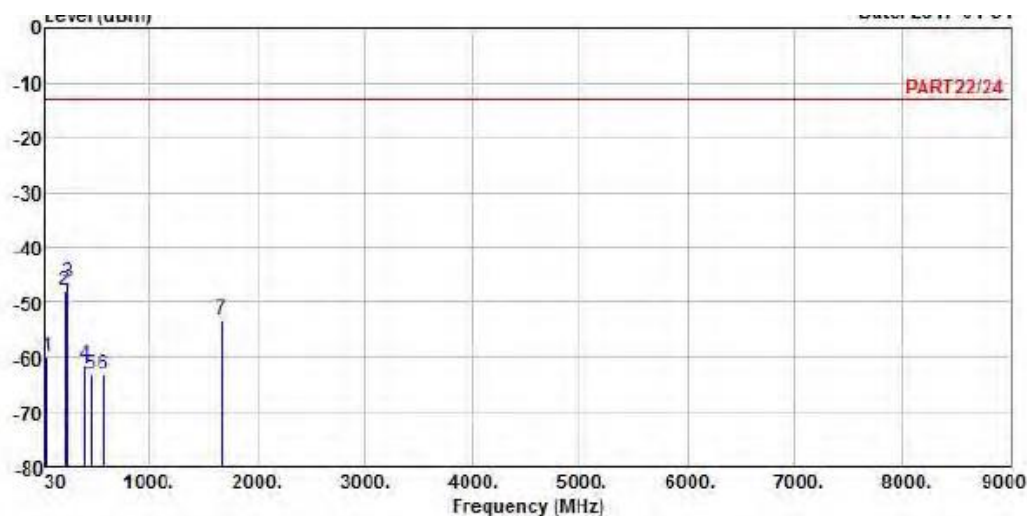
Site : 966 Chamber 5  
Condition: PART22/24 VERTICAL  
Remak : LTE Band V QPSK\_10M\_L-CH Link  
Tested by: Getaz Yang

Freq	Level	Read	Limit	Over		
MHz	dBm	Level	Line	Limit	Factor	Remark
		dBm	dBm	dB	dB	

1 pp 1658.00 -57.27 -42.59 -13.00 -44.27 -14.68 Peak



## Middle Channel



Site : 966 Chamber 5

Condition: PART22/24 HORIZONTAL

Remak : LTE Band V QPSK\_10M\_M-CH Link

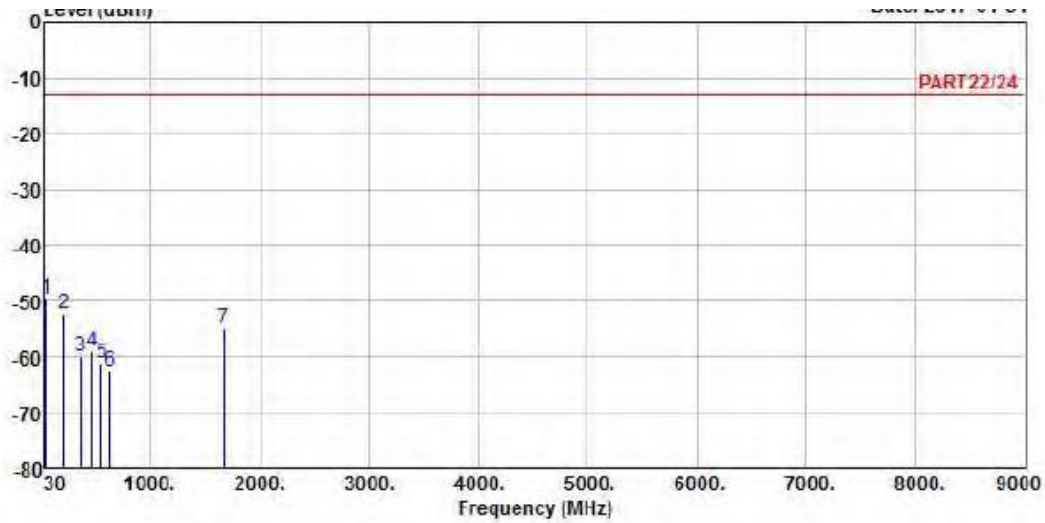
Tested by: Getaz Yang

		Read	Limit	Over			
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	40.67	-59.93	-60.05	-13.00	-46.93	0.12	Peak
2	214.30	-47.75	-40.31	-13.00	-34.75	-7.44	Peak
3 pp	235.64	-46.43	-39.85	-13.00	-33.43	-6.58	Peak
4	398.60	-61.42	-55.47	-13.00	-48.42	-5.95	Peak
5	453.89	-63.27	-57.79	-13.00	-50.27	-5.48	Peak
6	571.26	-63.28	-61.32	-13.00	-50.28	-1.96	Peak
7	1673.00	-53.24	-38.56	-13.00	-40.24	-14.68	Peak



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# Test Report No.: W7L-220113W001RF01



Site : 966 Chamber 5

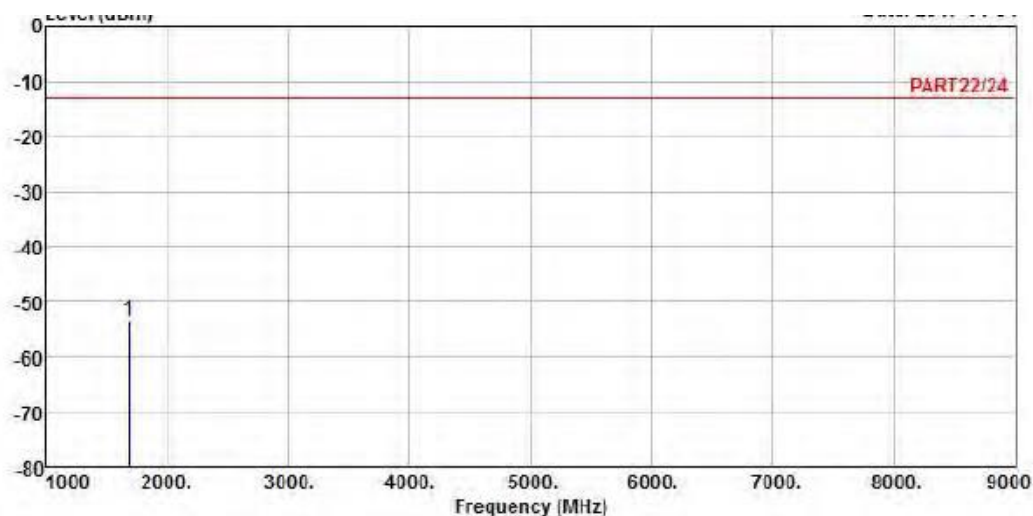
Condition: PART22/24 VERTICAL

Remak : LTE Band V QPSK\_10M\_M-CH Link

Tested by: Getaz Yang

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	41.64	-49.50	-49.09	-13.00	-36.50	-0.41	Peak
2	206.54	-52.10	-44.35	-13.00	-39.10	-7.75	Peak
3	361.74	-60.00	-53.83	-13.00	-47.00	-6.17	Peak
4	462.62	-58.99	-53.67	-13.00	-45.99	-5.32	Peak
5	552.83	-61.13	-58.40	-13.00	-48.13	-2.73	Peak
6	627.52	-62.52	-61.69	-13.00	-49.52	-0.83	Peak
7	1673.00	-54.94	-40.26	-13.00	-41.94	-14.68	Peak

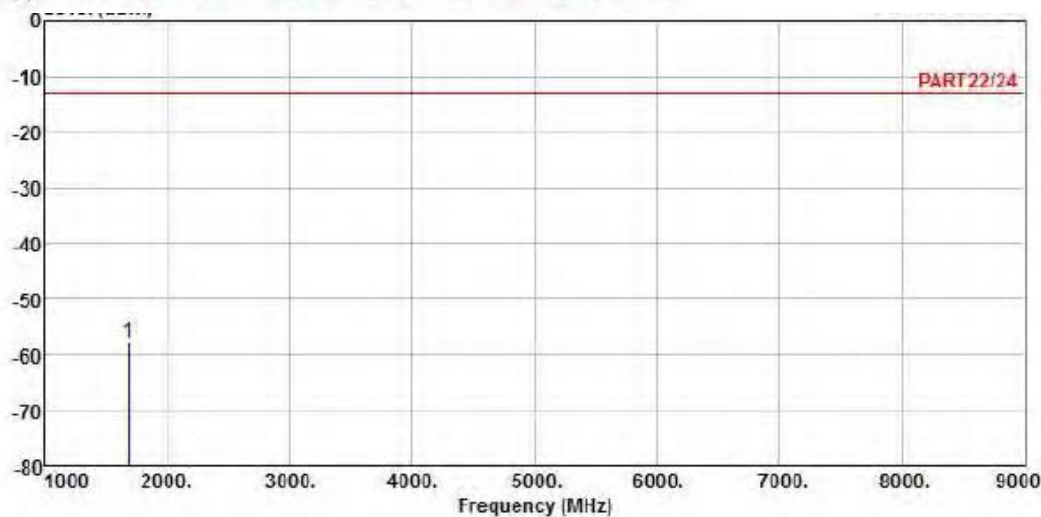
## High Channel



Site : 966 Chamber 5  
 Condition: PART22/24 HORIZONTAL  
 Remark : LTE Band V QPSK\_10M\_H-CH Link  
 Tested by: Getaz Yang

Freq	Level	Read	Limit	Over		
MHz	dBm	Level	Line	Limit	Factor	Remark
		dBm	dBm	dB	dB	

1 pp 1688.00 -53.55 -38.95 -13.00 -40.55 -14.60 Peak



Site : 966 Chamber 5  
 Condition: PART22/24 VERTICAL  
 Remark : LTE Band V QPSK\_10M\_H-CH Link  
 Tested by: Getaz Yang

Freq	Level	Read	Limit	Over		
MHz	dBm	Level	Line	Limit	Factor	Remark
		dBm	dBm	dB	dB	

1 pp 1688.00 -57.99 -43.39 -13.00 -44.99 -14.60 Peak



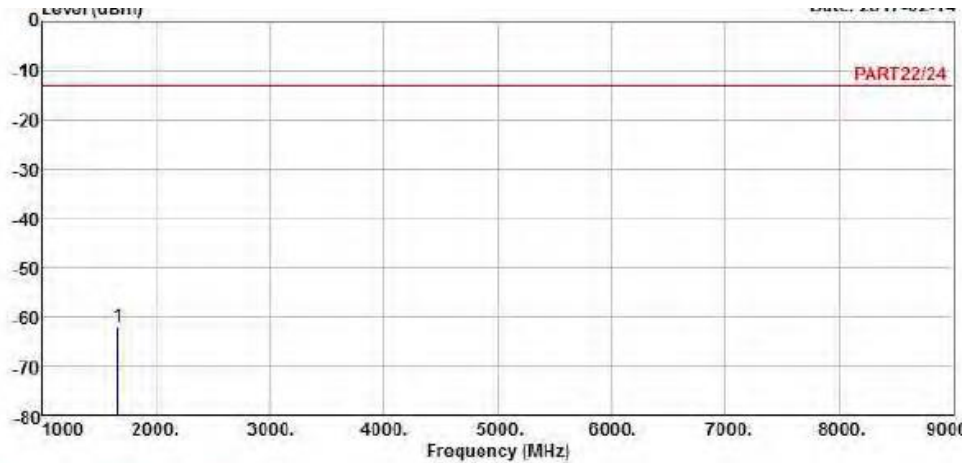
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LTE Band 26

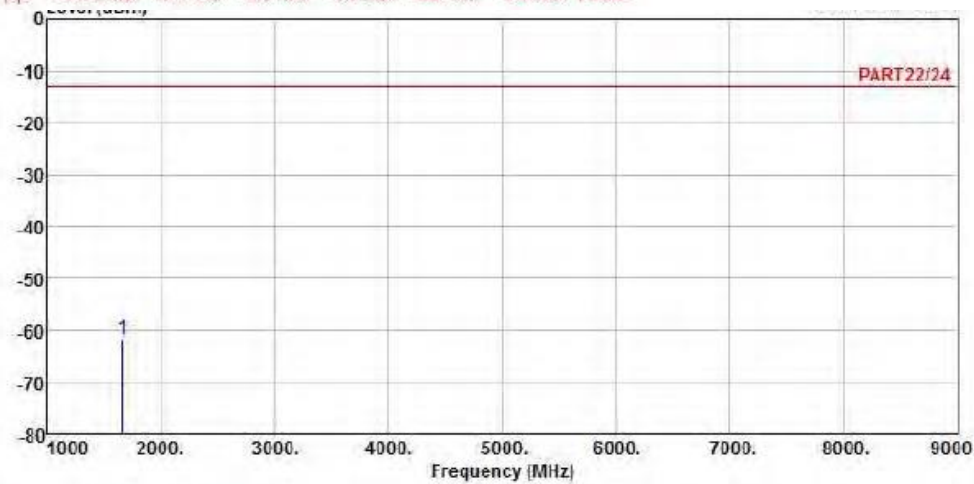
CHANNEL BANDWIDTH: 15MHz / QPSK

Low Channel



Site : 966 Chamber 5  
Condition: PART22/24 HORIZONTAL  
Remak : LTE Band 26 QPSK\_15M\_L-CH Link  
Tested by: Getaz Yang

Freq	Level	Read	Limit	Over		
MHz	dBm	Level	Line	Limit	Factor	Remark
1 pp 1663.00	-61.97	-47.29	-13.00	-48.97	-14.68	Peak

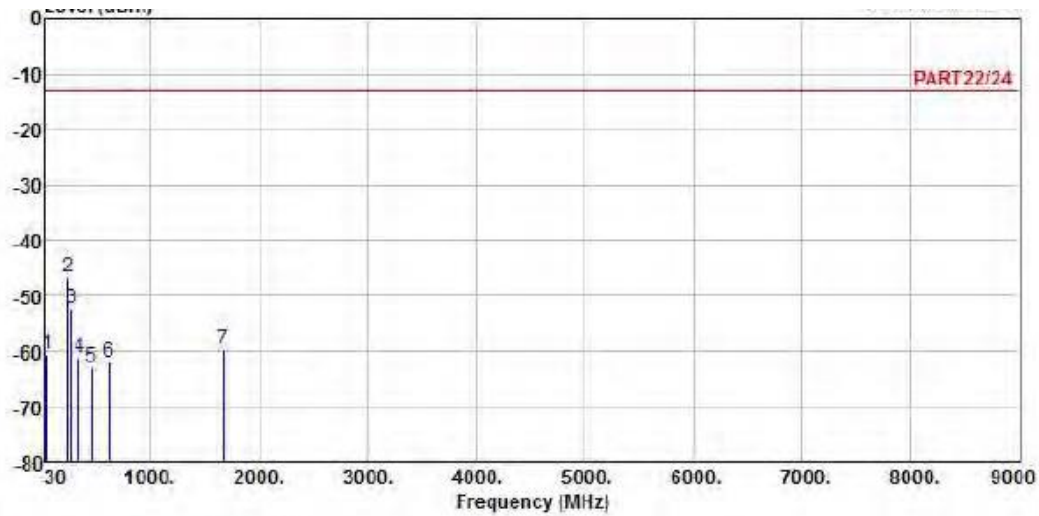


Site : 966 Chamber 5  
Condition: PART22/24 VERTICAL  
Remak : LTE Band 26 QPSK\_15M\_L-CH Link  
Tested by: Getaz Yang

Freq	Level	Read	Limit	Over		
MHz	dBm	Level	Line	Limit	Factor	Remark
1 pp 1663.00	-61.65	-46.97	-13.00	-48.65	-14.68	Peak



## Middle Channel



Site : 966 Chamber 5  
 Condition: PART22/24 HORIZONTAL  
 Remak : LTE Band 26 QPSK\_15M\_M-CH Link  
 Tested by: Getaz Yang

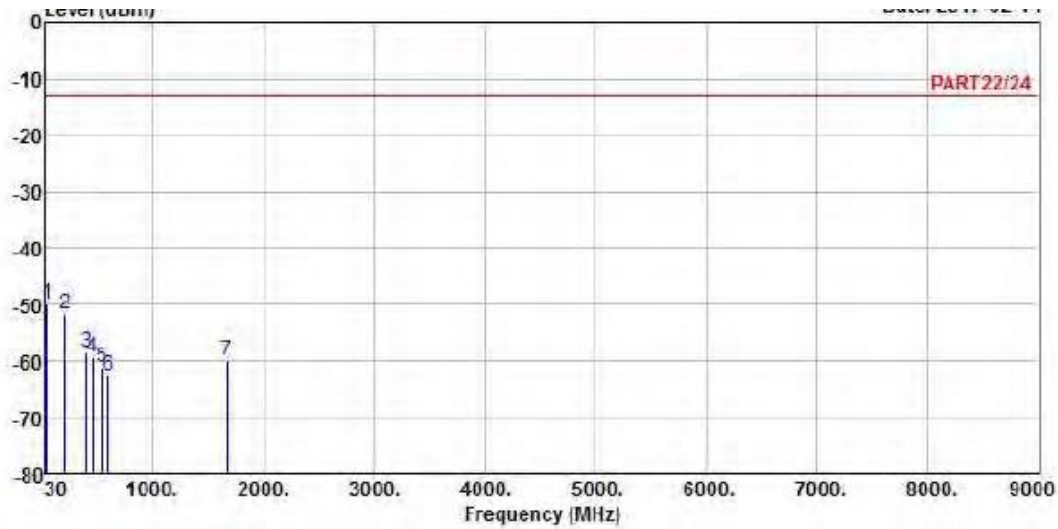
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	41.64	-60.58	-60.17	-13.00	-47.58	-0.41	Peak
2 pp	231.76	-46.51	-39.78	-13.00	-33.51	-6.73	Peak
3	264.74	-52.30	-46.01	-13.00	-39.30	-6.29	Peak
4	338.46	-61.11	-54.69	-13.00	-48.11	-6.42	Peak
5	453.89	-62.98	-57.50	-13.00	-49.98	-5.48	Peak
6	617.82	-61.96	-61.16	-13.00	-48.96	-0.80	Peak
7	1673.00	-59.52	-44.84	-13.00	-46.52	-14.68	Peak





**BUREAU  
VERITAS**

# Test Report No.: W7L-220113W001RF01



Site : 966 Chamber 5

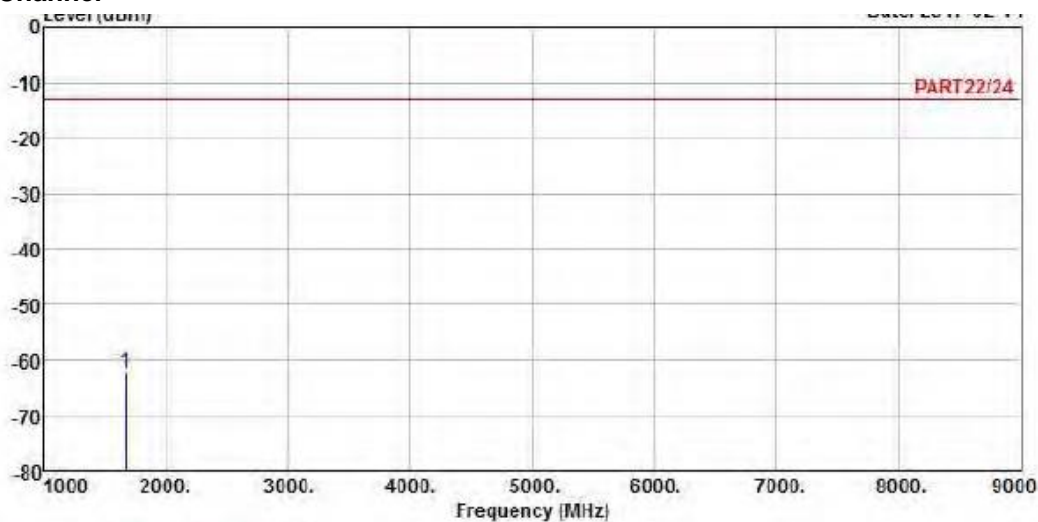
Condition: PART22/24 VERTICAL

Remak : LTE Band 26 QPSK\_15M\_M-CH Link

Tested by: Getaz Yang

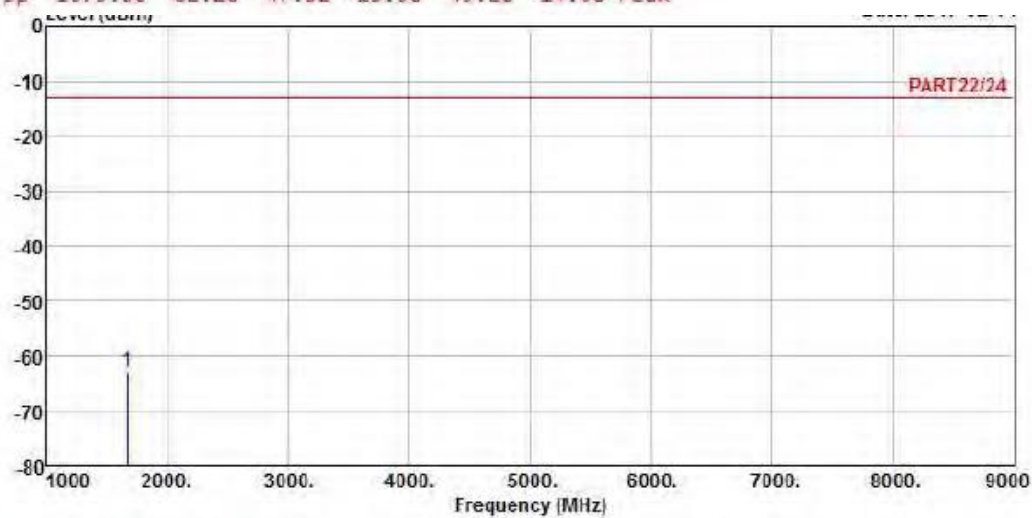
		Read	Limit	Over			
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	pp	41.64	-49.86	-49.45	-13.00	-36.86	-0.41 Peak
2		206.54	-51.73	-43.98	-13.00	-38.73	-7.75 Peak
3		400.54	-58.45	-52.51	-13.00	-45.45	-5.94 Peak
4		452.92	-59.22	-53.72	-13.00	-46.22	-5.50 Peak
5		547.01	-61.20	-58.25	-13.00	-48.20	-2.95 Peak
6		599.39	-62.46	-61.67	-13.00	-49.46	-0.79 Peak
7		1673.00	-60.01	-45.33	-13.00	-47.01	-14.68 Peak

## High Channel



Site : 966 Chamber 5  
 Condition: PART22/24 HORIZONTAL  
 Remak : LTE Band 26 QPSK\_15M\_H-CH Link  
 Tested by: Getaz Yang

Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1673.00	-62.20	-47.52	-13.00	-49.20	-14.68	Peak



Site : 966 Chamber 5  
 Condition: PART22/24 VERTICAL  
 Remak : LTE Band 26 QPSK\_15M\_H-CH Link  
 Tested by: Getaz Yang

Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1673.00	-62.76	-48.08	-13.00	-49.76	-14.68	Peak



Test Report No.: W7L-220113W001RF01

## 4 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).





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## 5 INFORMATION ON THE TESTING LABORATORIES

We, BV 7LAYERS COMMUNICATIONS TECHNOLOGY (SHENZHEN) CO. LTD., were founded in 2015 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

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

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**Email:** [customerservice.sw@bureauveritas.com](mailto:customerservice.sw@bureauveritas.com)

**Web Site:** [www.adt.com.tw](http://www.adt.com.tw)

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



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## 6 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

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

---END---