

# **Partial FCC Test Report**

(PART 27)

Report No.: RF180817C04-6

FCC ID: NKS-DUO-LTE

Test Model: Trimble Duo

Received Date: Aug. 17, 2018

Test Date: Aug. 29, 2018 ~ Aug. 30, 2018

**Issued Date:** Sep. 12, 2018

**Applicant:** PeopleNet Communications Corporation

Address: 4400 Baker Road, Minnetonka, MN 55343, USA

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

(R.O.C)

Test Location: No.19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City

33383, Taiwan, R.O.C.

FCC Registration /

788550 / TW0003

**Designation Number:** 





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# **Release Control Record**

Issue No.	Description	Date Issued
RF180817C04-6	Original Release	Sep. 12, 2018



### 1 Certificate of Conformity

Product: Tablet

Brand: Trimble

Test Model: Trimble Duo

Sample Status: Mass product

Applicant: PeopleNet Communications Corporation

Test Date: Aug. 29, 2018 ~ Aug. 30, 2018

Standards: FCC Part 27, Subpart C, F, L

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by : , Date: Sep. 12, 2018

Rona Chen / Specialist

**Approved by :** , **Date:** Sep. 12, 2018

Dylan Chiou / Project Engineer



# 2 Summary of Test Results

	Applied Standard: FCC Part 27 & Part 2 (WCDMA)				
FCC Test Item		Result	Remarks		
2.1046 27.50(d)(4)	l ' ' Pag		Meet the requirement of limit.		
2.1047	Modulation Characteristics	N/A	Refer to Note		
2.1055 27.54 Frequency Stability		N/A	Refer to Note		
2.1049 27.53(h) Occupied Bandwidth		N/A	Refer to Note		
27.50(d)(5) Peak to Average Ratio		N/A	Refer to Note		
27.53(h)	Band Edge Measurements	N/A	Refer to Note		
2.1051 27.53(h)	Conducted Spurious Emissions	N/A	Refer to Note		
2.1053 27.53(h)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -38.40 dB at 3465.20 MHz.		

	Applied Standard: FCC Part 27 & Part 2 (LTE 4)				
FCC Clause	Test Item	Result	Remarks		
2.1046 27.50(d)(4) Maximum Peak Output Power		Pass	Meet the requirement of limit.		
2.1047	Modulation Characteristics	N/A	Refer to Note		
2.1055 27.54  Frequency Stability  2.1049 27.53(h)  Occupied Bandwidth  27.50(d)(5)  Peak to Average Ratio		N/A	Refer to Note		
		N/A	Refer to Note		
		N/A	Refer to Note		
27.53(h)	Band Edge Measurements	N/A	Refer to Note		
2.1051 27.53(h)	Conducted Spurious Emissions	N/A	Refer to Note		
2.1053 27.53(h)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -40.00 dB at 44.55 MHz.		



	Applied Standard: FCC Part 27 & Part 2 (LTE 17)				
FCC Clause	Test Item	Result	Remarks		
2.1046 27.50(c)(10) Maximum Peak Output Power		Pass	Meet the requirement of limit.		
2.1047	Modulation Characteristics	N/A	Refer to Note		
2.1055 27.54 Frequency Stability		N/A	Refer to Note		
2.1049 27.53(g) Occupied Bandwidth		N/A	Refer to Note		
27.50(d)(5) Peak to Average Ratio		N/A	Refer to Note		
27.53(g)	Band Edge Measurements	N/A	Refer to Note		
2.1051 27.53(g)	Conducted Spurious Emissions	N/A	Refer to Note		
2.1053 27.53(g)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -28.42 dB at 2130.00 MHz.		

### Note:

This report is a partial report. Therefore, only test item of Effective Radiated Power / Effective Isotropic Radiated Power and Radiated Spurious Emissions tests were performed for this report. Other testing data please refer to CETECOM<sup>TM</sup> report no.: 20835060b/15-C1 and 1-9521/15-01-04-A for module (Brand: GEMALTO, Model: PLS8-X)



# 2.1 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	Frequency	Expended Uncertainty (k=2) (±)
Dodisted Emissions up to 1 CHz		2.93 dB
Radiated Emissions up to 1 GHz	200 MHz ~ 1000 MHz	2.95 dB
De l'ate d'Enriceire et eur 4 Olle	1 GHz ~ 18 GHz	2.26 dB
Radiated Emissions above 1 GHz	18 GHz ~ 40 GHz	1.94 dB



### 2.2 Test Site and Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver Agilent	N9038A	MY51210203	Mar. 16, 2018	Mar. 15, 2019
Spectrum Analyzer Agilent	N9010A	MY52220314	Nov. 24, 2017	Nov. 23, 2018
HORN Antenna Schwarzbeck	BBHA 9120D	9120D-969	Dec. 12, 2017	Dec. 11, 2018
Horn Antenna SCHWARZBECK	BBHA 9170	148	Dec. 13, 2017	Dec. 12, 2018
BILOG Antenna SCHWARZBECK	VULB 9168	9168-472	Dec. 06, 2017	Dec. 05, 2018
Fixed Attenuator Mini-Circuits	MDCS18N-10	MDCS18N-10-01	Apr. 16, 2018	Apr. 15, 2019
Preamplifier EMCI	EMC 012645	980115	Oct. 20, 2017	Oct. 19, 2018
Preamplifier EMCI	EMC 184045	980116	Oct. 20, 2017	Oct. 19, 2018
Preamplifier EMCI	EMC 330H	980112	Oct. 13, 2017	Oct. 12, 2018
Signal generator KEYSIGHT	N5173B	MY53270724	Apr. 05, 2018	Apr. 04, 2019
RF Coaxial Cable HUBER+SUHNNER	EMC104-SM-SM-800 0&3000	140811+170717	Oct. 20, 2017	Oct. 19, 2018
RF Coaxial Cable HUBER+SUHNNER	SUCOFLEX 104	EMC104-SM-SM- 1000(140807)	Oct. 20, 2017	Oct. 19, 2018
RF Coaxial Cable Worken	8D-FB	Cable-Ch10-01	Oct. 20, 2017	Oct. 19, 2018
Software BV ADT	E3 6.120103	NA	NA	NA
Antenna Tower MF	MFA-440H	NA	NA	NA
Turn Table MF	MFT-201SS	NA	NA	NA
Antenna Tower &Turn Table Controller MF	MF-7802	NA	NA	NA
Radio Communication Analyzer	MT8820C	6201300640	Aug. 16, 2017	Aug. 15, 2019

Note: 1. The calibration interval of the above test instruments is 12 / 24 months and the calibrations are traceable to NML/ROC and NIST/USA.

- 2. The test was performed in HwaYa Chamber 10.
- 3. The horn antenna and preamplifier (model: EMC 184045) are used only for the measurement of emission frequency above 1 GHz if tested.
- 4. The IC Site Registration No. is IC7450F-10.



# 3 General Information

# 3.1 General Description of EUT

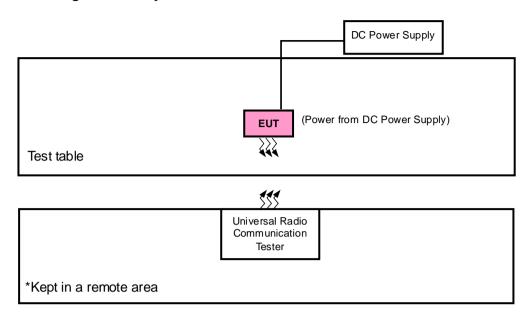
Product	<b>Tablet</b>				
Brand	Trimble				
Test Model	Trimble Duo				
Status of EUT	Mass product				
Power Supply Rating	12.0 Vdc (DC Power Supply)				
Modulation Type	WCDMA	QPSK			
Wodulation Type	LTE	QPSK, 16QAM			
	WCDMA	1712.4 ~ 1752.6 MHz			
	LTE Band 4 (Channel Bandwidth: 1.4 MHz)	1710.7 ~ 1754.3 MHz			
	LTE Band 4 (Channel Bandwidth: 3 MHz)	1711.5 ~ 1753.5 MHz			
	LTE Band 4 (Channel Bandwidth: 5 MHz)	1712.5 ~ 1752.5 MHz			
Frequency Range	LTE Band 4 (Channel Bandwidth: 10 MHz)	1715.0 ~ 1750.0 MHz			
	LTE Band 4 (Channel Bandwidth: 15 MHz)	1717.5 ~ 1747.5 MHz			
	LTE Band 4 (Channel Bandwidth: 20 MHz)	1720.0 ~ 1745.0 MHz			
	LTE Band 17 (Channel Bandwidth: 5 MHz)	706.5 ~ 713.5 MHz			
	LTE Band 17 (Channel Bandwidth: 10 MHz)	709.0 ~ 711.0 MHz			
Max. ERP Power	LTE Band 17 (Channel Bandwidth: 5 MHz)	7.73 mW			
IVIAX. ERP POWEI	LTE Band 17 (Channel Bandwidth: 10 MHz)	8.15 mW			
	WCDMA	325.09 mW			
	LTE Band 4 (Channel Bandwidth: 1.4 MHz)	106.91 mW			
	LTE Band 4 (Channel Bandwidth: 3 MHz)	112.98 mW			
Max. EIRP Power	LTE Band 4 (Channel Bandwidth: 5 MHz)	118.85 mW			
	LTE Band 4 (Channel Bandwidth: 10 MHz)	125.89 mW			
	LTE Band 4 (Channel Bandwidth: 15 MHz)	133.05 mW			
	LTE Band 4 (Channel Bandwidth: 20 MHz)	140.28 mW			
Antenna Type PIFA Antenna					
	WCDMA	1.24 dBi			
Antenna Gain	LTE Band 4	1.24 dBi			
	LTE Band 17	2.28 dBi			
Accessory Device	NA				
Data Cable Supplied	N/A				

### Note:

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



### 3.2 Configuration of System under Test



### 3.2.1 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 Power Supply	Topward	33010D	807748	N/A

No.	Signal Cable Description Of The Above Support Units
1.	N/A

Note:

1. All power cords of the above support units are non-shielded (1.8m).

### 3.3 Test Mode Applicability and Tested Channel Detail

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis, and antenna ports

The worst case was found when positioned as the table below. Following channel(s) was (were) selected for the final test as listed below:

Band	ERP / EIRP	Radiated Emission
WCDMA	X-plane	Z-axis
LTE Band 4	X-plane	Z-axis
LTE Band 17	Z-plane	X-axis

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### **WCDMA**

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Mode
-	EIRP	1312 to 1513	1312, 1413, 1513	WCDMA
-	Radiated Emission	1312 to 1513	1312, 1413, 1513	WCDMA

### LTE Band 4

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
		19957 to 20393	19957, 20175, 20393	1.4 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		19965 to 20385	19965, 20175, 20385	3 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
	EIRP	19975 to 20375	19975, 20175, 20375	5 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
I -	LINE	20000 to 20350	20000, 20175, 20350	10 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20025 to 20325	20025, 20175, 20325	15 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20050 to 20300	20050, 20175, 20300	20 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
	5 "	19957 to 20393	19957, 20175, 20393	1.4 MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission	19975 to 20375	19975, 20175, 20375	5 MHz	QPSK	1 RB / 0 RB Offset
	L1111331011	20050 to 20300	20050, 20175, 20300	20 MHz	QPSK	1 RB / 0 RB Offset

**Note:** This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

# LTE Band 17

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
	ERP	23755 to 23825	23755, 23790, 23825	5 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
-	EKF	23780 to 23800	23780, 23790, 23800	10 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
	Radiated	23755 to 23825	23755, 23790, 23825	5 MHz	QPSK	1 RB / 0 RB Offset
-	Emission	23780 to 23800	23780, 23790, 23800	10 MHz	QPSK	1 RB / 0 RB Offset

**Note:** This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

# **Test Condition:**

Test Item	Environmental Conditions	Input Power	Tested By	
ERP / EIRP	25 deg. C, 65 % RH	12 Vdc	Jisyong Wang	
Radiated Emission	25 deg. C, 65 % RH	120 Vac, 60 Hz	Jisyong Wang	



### 3.4 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

### 3.5 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 27
KDB 971168 D01 Power Meas License Digital Systems v03r01
ANSI/TIA/EIA-603-E 2016
ANSI 63.26-2015

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



# 4 Test Types and Results

# 4.1 Output Power Measurement

### 4.1.1 Limits of Output Power Measurement

Fixed, mobile, and portable (hand-held) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP.

Portable stations (hand-held devices) operating in the 698-746 MHz band are limited to 3 watts ERP

#### 4.1.2 Test Procedures

### **EIRP / ERP Measurement:**

- a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 5 MHz for WCDMA and 10 MHz for LTE mode.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) and/or 1.5 m (above 1 GHz) 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 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- c. 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 b. Record the power level of S.G.
- d. EIRP = Output power level of S.G TX cable loss + Antenna gain of substitution horn. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.R.P power - 2.15 dB.

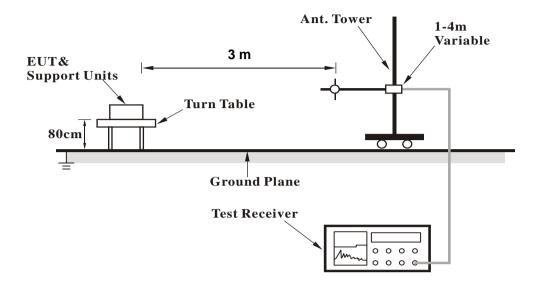
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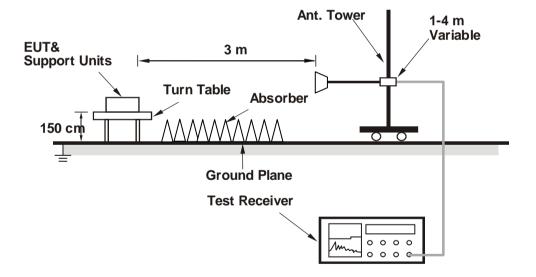
# 4.1.3 Test Setup

### **EIRP / ERP Measurement:**

# <Radiated Emission below or equal 1 GHz>



### <Radiated Emission above 1 GHz>



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



# 4.1.4 Test Results

# ERP Power (dBm)

	WCI (GBIII)			LTE Band 17							
Channel Bandwidth: 5 MHz / QPSK											
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)				
	23755	706.5	-19.33	30.36	8.88	7.73					
	23790	710.0	-21.36	30.17	6.66	4.63	Н				
Z	23825	713.5	-19.73	30.17	8.29	6.75					
	23755	706.5	-23.10	32.03	6.78	4.76					
	23790	710.0	-25.24	31.98	4.59	2.88	V				
	23825	713.5	-23.65	32.06	6.26	4.23					
			Channel Ba	ndwidth: 5 MHz	/ 16QAM						
	23755	706.5	-20.32	30.36	7.89	6.15					
	23790	710.0	-22.35	30.17	5.67	3.69	Н				
7	23825	713.5	-20.72	30.17	7.30	5.37					
Z	23755	706.5	-24.09	32.03	5.79	3.79					
	23790	710.0	-26.23	31.98	3.60	2.29	V				
	23825	713.5	-24.64	32.06	5.27	3.37					



				LTE Band 17							
Channel Bandwidth: 10 MHz / QPSK											
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)				
	23780	709.0	-18.91	30.17	9.11	8.15					
	23790	710.0	-21.13	30.17	6.89	4.89	Н				
Z	23800	711.0	-19.51	30.18	8.52	7.11					
	23780	709.0	-22.80	31.96	7.01	5.02					
	23790	710.0	-25.01	31.98	4.82	3.03	V				
	23800	711.0	-23.39	32.03	6.49	4.46					
		(	Channel Bar	ndwidth: 10 MHz	/ 16QAM						
	23780	709.0	-20.02	30.17	8.00	6.31					
	23790	710.0	-22.24	30.17	5.78	3.78	Н				
7	23800	711.0	-20.62	30.18	7.41	5.51					
Z	23780	709.0	-23.91	31.96	5.90	3.89					
	23790	710.0	-26.12	31.98	3.71	2.35	V				
	23800	711.0	-24.50	32.03	5.38	3.45					



# EIRP Power (dBm)

	WCDMA											
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)					
	1312	1712.4	-11.40	36.29	24.89	308.32						
	1413	1732.6	-11.57	36.69	25.12	325.09	Н					
X	1513	1752.6	-12.66	36.98	24.32	270.40						
_ ^	1312	1712.4	-17.39	37.11	19.72	93.76						
	1413	1732.6	-17.58	37.60	20.02	100.46	V					
	1513	1752.6	-18.42	37.65	19.23	83.75						

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

				LTE Band 4							
Channel Bandwidth: 1.4 MHz / QPSK											
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)				
	19957	1710.7	-17.41	36.45	19.04	80.17					
	20175	1732.5	-16.51	36.80	20.29	106.91	Н				
l <sub>x</sub>	20393	1754.3	-17.40	36.94	19.54	89.95					
^	19957	1710.7	-23.25	37.28	14.03	25.29					
	20175	1732.5	-22.33	37.63	15.30	33.88	V				
	20393	1754.3	-23.13	37.64	14.51	28.25					
		C	Channel Ban	dwidth: 1.4 MHz	: / 16QAM						
	19957	1710.7	-18.38	36.45	18.07	64.12					
	20175	1732.5	-17.48	36.80	19.32	85.51	Н				
X	20393	1754.3	-18.37	36.94	18.57	71.94					
X	19957	1710.7	-24.22	37.28	13.06	20.23					
	20175	1732.5	-23.30	37.63	14.33	27.10	V				
	20393	1754.3	-24.10	37.64	13.54	22.59					



				LTE Band 4							
Channel Bandwidth: 3 MHz / QPSK											
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)				
	19965	1711.5	-17.17	36.45	19.28	84.72					
	20175	1732.5	-16.27	36.80	20.53	112.98	Н				
X	20385	1753.5	-17.16	36.94	19.78	95.06					
^	19965	1711.5	-23.01	37.28	14.27	26.73					
	20175	1732.5	-22.09	37.63	15.54	35.81	V				
	20385	1753.5	-22.89	37.64	14.75	29.85					
			Channel Ba	ndwidth: 3 MHz	/ 16QAM						
	19965	1711.5	-18.06	36.45	18.39	69.02					
	20175	1732.5	-17.16	36.80	19.64	92.04	Н				
V	20385	1753.5	-18.05	36.94	18.89	77.45					
Х	19965	1711.5	-23.90	37.28	13.38	21.78					
	20175	1732.5	-22.98	37.63	14.65	29.17	V				
	20385	1753.5	-23.78	37.64	13.86	24.32					

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

				LTE Band 4							
Channel Bandwidth: 5 MHz / QPSK											
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)				
	19975	1712.5	-16.95	36.45	19.50	89.13					
	20175	1732.5	-16.05	36.80	20.75	118.85	Н				
l <sub>x</sub>	20375	1752.5	-16.94	36.94	20.00	100.00					
_ ^	19975	1712.5	-22.79	37.28	14.49	28.12					
	20175	1732.5	-21.87	37.63	15.76	37.67	V				
	20375	1752.5	-22.67	37.64	14.97	31.41					
			Channel Ba	ndwidth: 5 MHz	/ 16QAM						
	19975	1712.5	-17.94	36.45	18.51	70.96					
	20175	1732.5	-17.04	36.80	19.76	94.62	Н				
X	20375	1752.5	-17.93	36.94	19.01	79.62					
^	19975	1712.5	-23.78	37.28	13.50	22.39					
	20175	1732.5	-22.86	37.63	14.77	29.99	V				
	20375	1752.5	-23.66	37.64	13.98	25.00					



				LTE Band 4							
Channel Bandwidth: 10 MHz / QPSK											
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)				
	20000	1715.0	-16.89	36.64	19.75	94.41					
	20175	1732.5	-15.80	36.80	21.00	125.89	Н				
X	20350	1750.0	-16.55	36.80	20.25	105.93					
^	20000	1715.0	-22.70	37.44	14.74	29.79					
	20175	1732.5	-21.62	37.63	16.01	39.90	V				
	20350	1750.0	-22.42	37.64	15.22	33.27					
		(	Channel Bar	ndwidth: 10 MHz	/ 16QAM						
	20000	1715.0	-17.86	36.64	18.78	75.51					
	20175	1732.5	-16.77	36.80	20.03	100.69	Н				
	20350	1750.0	-17.52	36.80	19.28	84.72					
Х	20000	1715.0	-23.67	37.44	13.77	23.82					
	20175	1732.5	-22.59	37.63	15.04	31.92	V				
	20350	1750.0	-23.39	37.64	14.25	26.61					

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

				LTE Band 4							
Channel Bandwidth: 15 MHz / QPSK											
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)				
	20025	1717.5	-16.46	36.45	19.99	99.77					
	20175	1732.5	-15.56	36.80	21.24	133.05	Н				
X	20325	1747.5	-16.45	36.94	20.49	111.94					
^	20025	1717.5	-22.30	37.28	14.98	31.48					
	20175	1732.5	-21.38	37.63	16.25	42.17	V				
	20325	1747.5	-22.18	37.64	15.46	35.16					
		(	Channel Bar	ndwidth: 15 MHz	/ 16QAM						
	20025	1717.5	-17.45	36.45	19.00	79.43					
	20175	1732.5	-16.55	36.80	20.25	105.93	Н				
X	20325	1747.5	-17.44	36.94	19.50	89.13					
^	20025	1717.5	-23.29	37.28	13.99	25.06					
	20175	1732.5	-22.37	37.63	15.26	33.57	V				
	20325	1747.5	-23.17	37.64	14.47	27.99					



				LTE Band 4							
Channel Bandwidth: 20 MHz / QPSK											
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)				
	20050	1720.0	-16.23	36.45	20.22	105.20					
	20175	1732.5	-15.33	36.80	21.47	140.28	Н				
X	20300	1745.0	-16.22	36.94	20.72	118.03					
^	20050	1720.0	-22.07	37.28	15.21	33.19					
	20175	1732.5	-21.15	37.63	16.48	44.46	V				
	20300	1745.0	-21.95	37.64	15.69	37.07					
		(	Channel Ban	dwidth: 20 MHz	/ 16QAM						
	20050	1720.0	-17.24	36.45	19.21	83.37					
	20175	1732.5	-16.34	36.80	20.46	111.17	Н				
X	20300	1745.0	-17.23	36.94	19.71	93.54					
^	20050	1720.0	-23.08	37.28	14.20	26.30					
	20175	1732.5	-22.16	37.63	15.47	35.24	V				
	20300	1745.0	-22.96	37.64	14.68	29.38					



#### 4.2 Radiated Emission Measurement

#### 4.2.1 Limits of Radiated Emission Measurement

a. The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 43 +10 log (P) dB. The limit of emission is equal to -13 dBm.

#### 4.2.2 Test Procedure

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) and/or 1.5 m (above 1 GHz) 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 1 m to 4 m 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. EIRP = Output power level of S.G TX cable loss + 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, E.R.P power = E.I.R.P power 2.15 dB.

Note: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

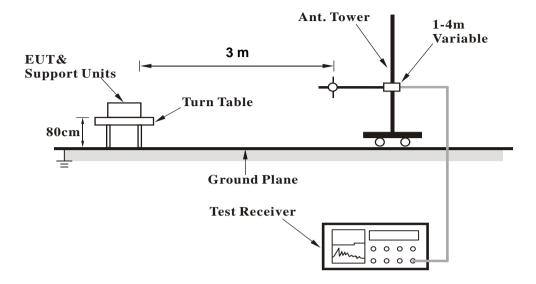
4.2.3 Deviation from Test Standard

No deviation.

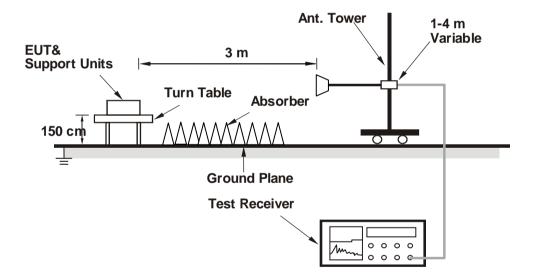


### 4.2.4 Test Setup

# <Radiated Emission below or equal 1 GHz>



### <Radiated Emission above 1 GHz>



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



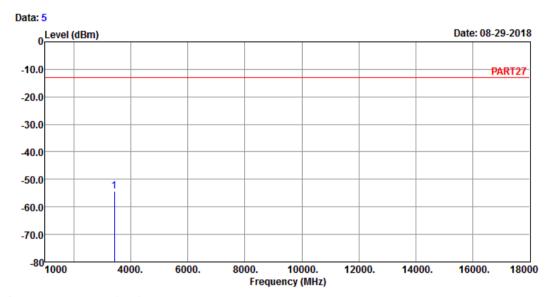
### 4.2.5 Test Results

# WCDMA:

**Low Channel** 



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remark : WCDMA Band 4 Link\_L-CH

Tested by: Jisyong Wang

Read Limit Over

Freq Level Level Line Limit Factor Remark

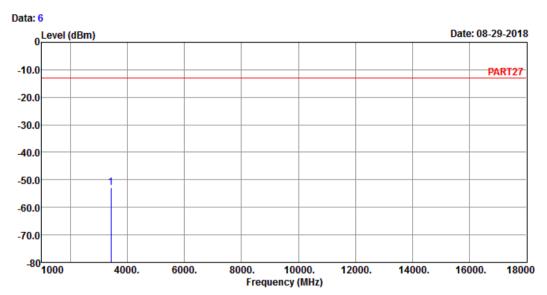
MHz dBm dBm dB dB

1 pp 3424.80 -54.46 -46.12 -13.00 -41.46 -8.34 Peak





# Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 Chamber 5 Condition: PART27 VERTICAL

Remark : WCDMA Band 4 Link\_L-CH

Tested by: Jisyong Wang

Read Limit Over

Freq Level Level Line Limit Factor Remark

MHz dBm dBm dBm dB dB

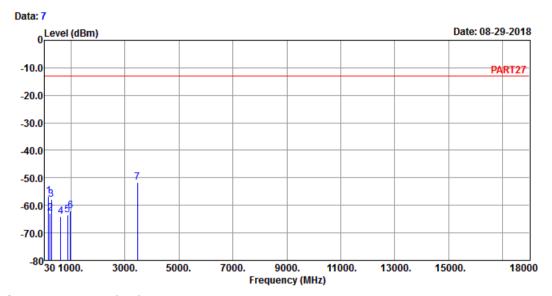
1 pp 3424.80 -52.93 -44.59 -13.00 -39.93 -8.34 Peak



### **Middle Channel**



# Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 Chamber 5 Condition: PART27 HORIZONTAL Remark : WCDMA Band 4 Link\_M-CH

Tested by: Jisyong Wang

Read Limit Over
Freq Level Level Line Limit Factor Remark

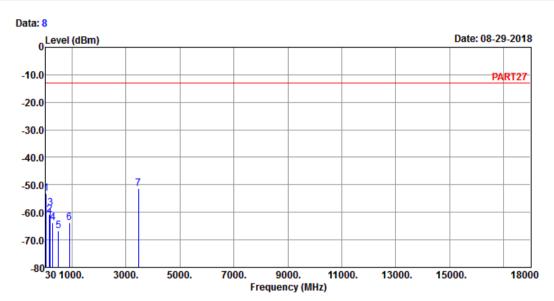
MHz dBm dBm dBm dB dB dB

1 168.71 -56.55 443.45 -13.00 -43.55-500.00 Peak 2 227.88 -62.82 437.18 -13.00 -49.82-500.00 Peak 3 281.23 -57.86 442.14 -13.00 -44.86-500.00 Peak 4 616.85 -64.04 435.96 -13.00 -51.04-500.00 Peak 5 873.90 -63.42 436.58 -13.00 -50.42-500.00 Peak 6 984.48 -62.05 437.95 -13.00 -49.05-500.00 Peak 7 pp 3465.20 -51.77 -43.89 -13.00 -38.77 -7.88 Peak





# Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 Chamber 5 Condition: PART27 VERTICAL

Remark : WCDMA Band 4 Link\_M-CH

Tested by: Jisyong Wang

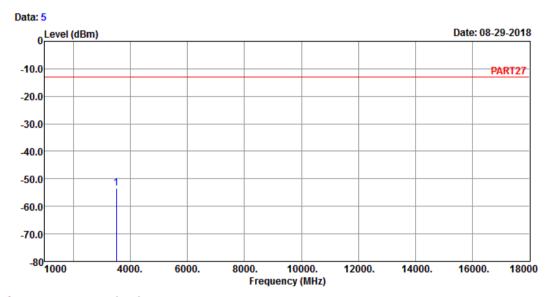
Read Limit 0ver Line Limit Factor Remark MHz dBm dBm dBm dB dΒ 44.55 -53.00 447.00 -13.00 -40.00-500.00 Peak 1 168.71 -60.87 439.13 -13.00 -47.87-500.00 Peak 198.78 -58.32 441.68 -13.00 -45.32-500.00 Peak 286.08 -63.66 436.34 -13.00 -50.66-500.00 Peak 503.36 -66.86 433.14 -13.00 -53.86-500.00 Peak 5 902.03 -63.71 436.29 -13.00 -50.71-500.00 Peak 7 pp 3465.20 -51.40 -43.52 -13.00 -38.40 -7.88 Peak



# **High Channel**



# Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 Chamber 5 Condition: PART27 HORIZONTAL Remark : WCDMA Band 4 Link\_H-CH

T. I. I. . . WEDNA DANG 4 LINK\_II-

Tested by: Jisyong Wang

Read Limit Over Freq Level Level Line Limit Factor Remark

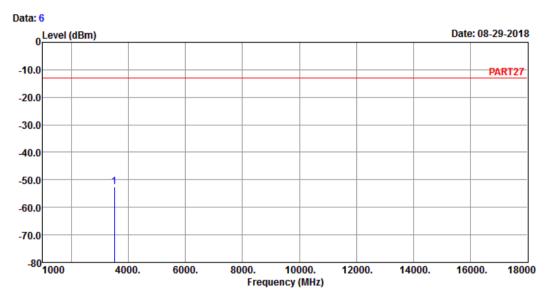
MHz dBm dBm dB dB

1 pp 3505.20 -53.55 -46.10 -13.00 -40.55 -7.45 Peak





# Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 Chamber 5 Condition: PART27 VERTICAL

Remark : WCDMA Band 4 Link\_H-CH

Tested by: Jisyong Wang

Read Limit Over

Freq Level Level Line Limit Factor Remark

MHz dBm dBm dBm dB dB

1 pp 3505.20 -52.50 -45.05 -13.00 -39.50 -7.45 Peak



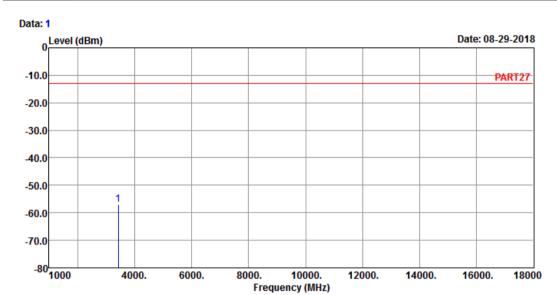
### LTE Band 4

Channel Bandwidth: 1.4 MHz / QPSK

**Low Channel** 



# Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 Chamber 5 Condition: PART27 HORIZONTAL

Remak : LTE Band 4 QPSK\_1.4M Link\_L-CH

Tested by: Thomas Wei

Read Limit Over
Freq Level Level Line Limit Factor Remark

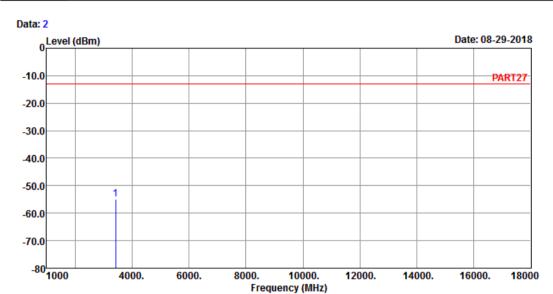
MHz dBm dBm dBm dB dB

1 pp 3421.40 -56.89 -48.55 -13.00 -43.89 -8.34 Peak





# Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 Chamber 5 Condition: PART27 VERTICAL

Remak : LTE Band 4 QPSK\_1.4M Link\_L-CH

Tested by: Thomas Wei

Read Limit Over
Freq Level Level Line Limit Factor Remark

MHz dBm dBm dBm dB dB

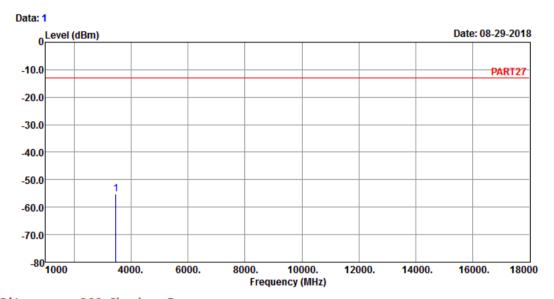
1 pp 3421.40 -54.95 -46.61 -13.00 -41.95 -8.34 Peak



### **Middle Channel**



# Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 Chamber 5 Condition: PART27 HORIZONTAL

Remak : LTE Band 4 QPSK\_1.4M Link\_M-CH

Tested by: Thomas Wei

Read Limit Over
Freq Level Level Line Limit Factor Remark

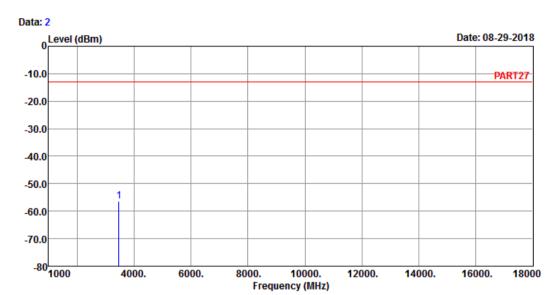
MHz dBm dBm dBm dB dB

1 pp 3465.00 -55.16 -47.28 -13.00 -42.16 -7.88 Peak





# Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 Chamber 5 Condition: PART27 VERTICAL

Remak : LTE Band 4 QPSK\_1.4M Link\_M-CH

Tested by: Thomas Wei

Read Limit Over

Freq Level Level Line Limit Factor Remark

MHz dBm dBm dBm dB dB

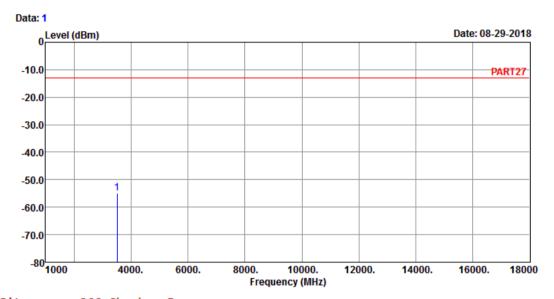
1 pp 3465.00 -56.38 -48.50 -13.00 -43.38 -7.88 Peak



# **High Channel**



# Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 Chamber 5 Condition: PART27 HORIZONTAL

Remak : LTE Band 4 QPSK\_1.4M Link\_H-CH

Tested by: Thomas Wei

Read Limit Over
Freq Level Level Line Limit Factor Remark

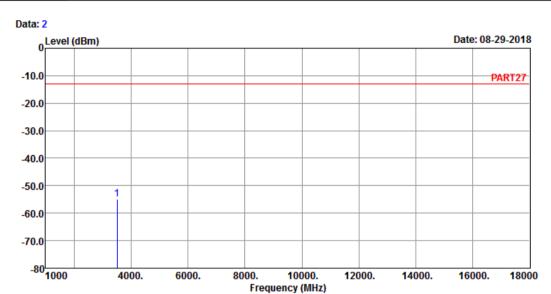
MHz dBm dBm dBm dB dB

1 pp 3508.60 -55.04 -47.59 -13.00 -42.04 -7.45 Peak





# Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 Chamber 5 Condition: PART27 VERTICAL

Remak : LTE Band 4 QPSK\_1.4M Link\_H-CH

Tested by: Thomas Wei

Read Limit Over
Freq Level Level Line Limit Factor Remark

MHz dBm dBm dB dB

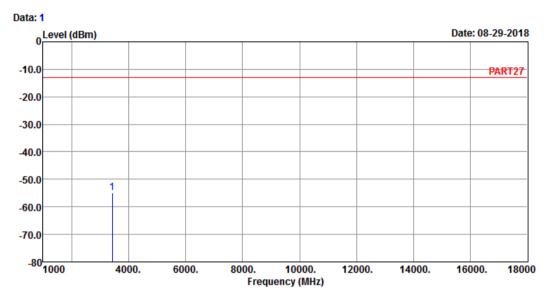
1 pp 3508.60 -54.82 -47.37 -13.00 -41.82 -7.45 Peak



# Channel Bandwidth: 5 MHz / QPSK Low Channel



# Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 Chamber 5 Condition: PART27 HORIZONTAL

Remak : LTE Band 4 QPSK\_5M Link\_L-CH

Tested by: Thomas Wei

Read Limit Over
Freq Level Level Line Limit Factor Remark

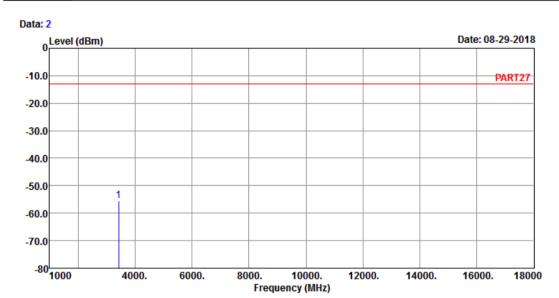
MHz dBm dBm dBm dB dB

1 pp 3425.00 -54.91 -46.57 -13.00 -41.91 -8.34 Peak





# Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 Chamber 5 Condition: PART27 VERTICAL

Remak : LTE Band 4 QPSK\_5M Link\_L-CH

Tested by: Thomas Wei

Read Limit Over

Freq Level Level Line Limit Factor Remark

MHz dBm dBm dBm dB dB

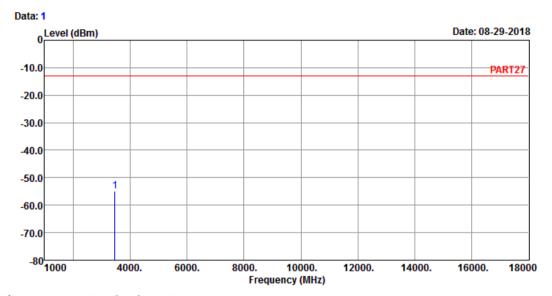
1 pp 3425.00 -55.56 -47.22 -13.00 -42.56 -8.34 Peak



#### **Middle Channel**



# Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 Chamber 5 Condition: PART27 HORIZONTAL

Remak : LTE Band 4 QPSK\_5M Link\_M-CH

Tested by: Thomas Wei

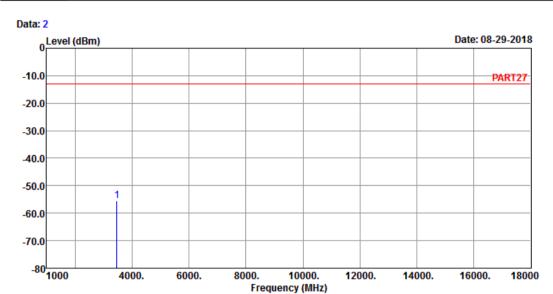
Read Limit Over
Freq Level Level Line Limit Factor Remark

MHz dBm dBm dBm dB dB

1 pp 3465.00 -54.91 -47.03 -13.00 -41.91 -7.88 Peak







Site : 966 Chamber 5 Condition: PART27 VERTICAL

Remak : LTE Band 4 QPSK\_5M Link\_M-CH

Tested by: Thomas Wei

Read Limit Over

 Freq
 Level
 Line
 Limit
 Factor
 Remark

 MHz
 dBm
 dBm
 dBm
 dB
 dB

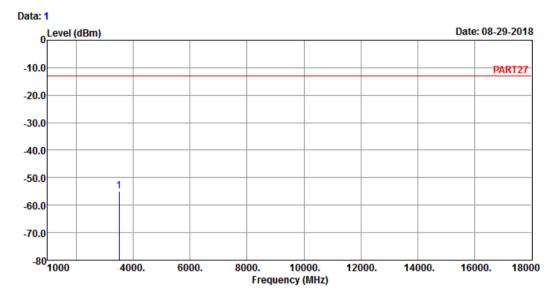
1 pp 3465.00 -55.62 -47.74 -13.00 -42.62 -7.88 Peak



#### **High Channel**



# Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 Chamber 5 Condition: PART27 HORIZONTAL

Remak : LTE Band 4 QPSK\_5M Link\_H-CH

Tested by: Thomas Wei

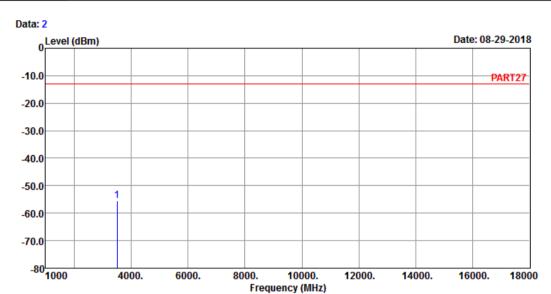
Read Limit Over
Freq Level Level Line Limit Factor Remark

MHz dBm dBm dBm dB dB

1 pp 3505.00 -54.90 -47.45 -13.00 -41.90 -7.45 Peak







Site : 966 Chamber 5 Condition: PART27 VERTICAL

Remak : LTE Band 4 QPSK\_5M Link\_H-CH

Tested by: Thomas Wei

Read Limit Over

Freq Level Level Line Limit Factor Remark

MHz dBm dBm dBm dB dB

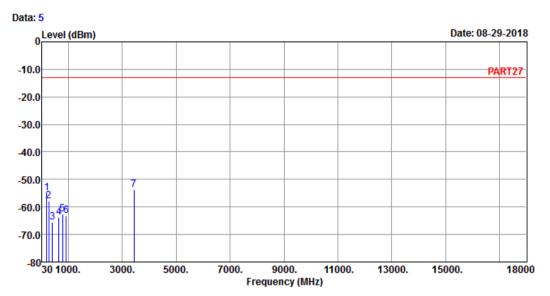
1 pp 3505.00 -55.58 -48.13 -13.00 -42.58 -7.45 Peak



# Channel Bandwidth: 20 MHz / QPSK Low Channel



#### Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 Chamber 5 Condition: PART27 HORIZONTAL

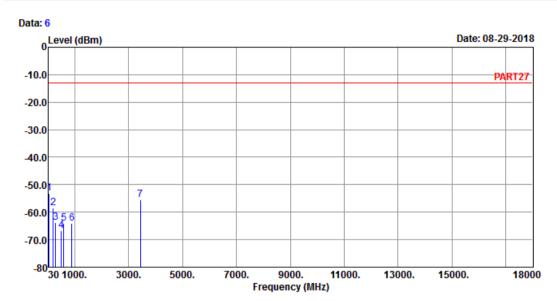
Remak : LTE Band 4 QPSK\_20M Link\_L-CH

Tested by: Thomas Wei

Read Limit 0ver Line Limit Factor Remark Freq Level Level MHz dBm dB dBm dBm dB 199.75 -54.86 -46.84 -13.00 -41.86 -8.02 Peak 281.23 -57.86 -51.23 -13.00 -44.86 -6.63 Peak 3 405.39 -65.60 -59.70 -13.00 -52.60 -5.90 Peak 4 648.86 -63.91 -63.03 -13.00 -50.91 -0.88 Peak 5 792.42 -62.59 -63.35 -13.00 -49.59 0.76 Peak 921.43 -63.16 -64.26 -13.00 -50.16 1.10 Peak 7 pp 3440.00 -53.85 -45.63 -13.00 -40.85 -8.22 Peak







: 966 Chamber 5 Condition: PART27 VERTICAL

Remak : LTE Band 4 QPSK\_20M Link\_L-CH

Tested by: Thomas Wei

5

Read Limit 0ver Line Limit Factor Remark MHz dBm dBm dBm dB dB 1 pp 44.55 -53.00 -51.01 -13.00 -40.00 -1.99 Peak -7.93 Peak 198.78 -58.32 -50.39 -13.00 -45.32 286.08 -63.66 -56.93 -13.00 -50.66 -6.73 Peak 503.36 -66.86 -62.35 -13.00 -53.86 -4.51 Peak 594.54 -64.00 -63.01 -13.00 -51.00 -0.99 Peak 890.39 -63.96 -64.48 -13.00 -50.96 0.52 Peak

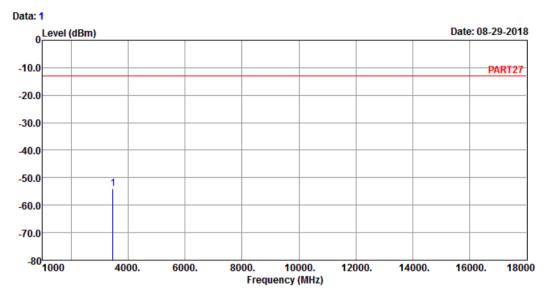
3440.00 -55.64 -47.42 -13.00 -42.64 -8.22 Peak



#### **Middle Channel**



# Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 Chamber 5 Condition: PART27 HORIZONTAL

Remak : LTE Band 4 QPSK\_20M Link\_M-CH

Tested by: Thomas Wei

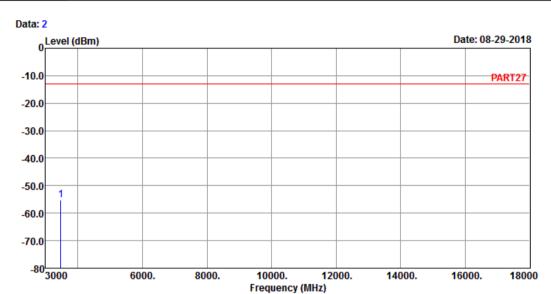
Read Limit Over
Freq Level Level Line Limit Factor Remark

MHz dBm dBm dBm dB dB

1 pp 3465.00 -54.09 -46.21 -13.00 -41.09 -7.88 Peak







Site : 966 Chamber 5 Condition: PART27 VERTICAL

Remak : LTE Band 4 QPSK\_20M Link\_M-CH

Tested by: Thomas Wei

Read Limit Over

Freq Level Level Line Limit Factor Remark

MHz dBm dBm dBm dB dB dB

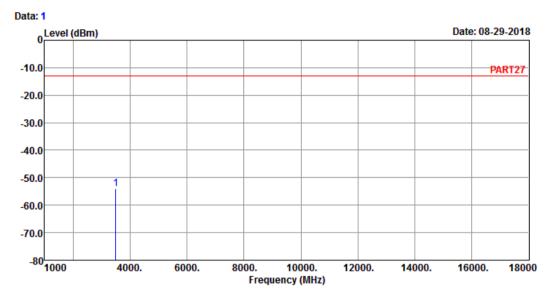
1 pp 3465.00 -55.12 -47.24 -13.00 -42.12 -7.88 Peak



#### **High Channel**



# Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 Chamber 5 Condition: PART27 HORIZONTAL

Remak : LTE Band 4 QPSK\_20M Link\_H-CH

Tested by: Thomas Wei

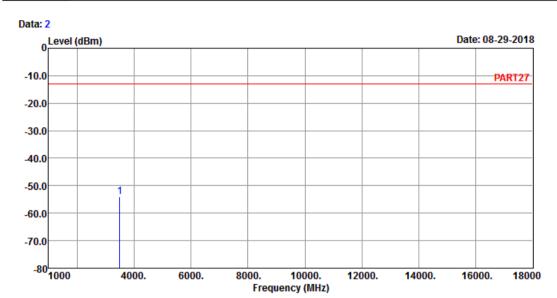
Read Limit Over
Freq Level Level Line Limit Factor Remark

MHz dBm dBm dBm dB dB

1 pp 3490.00 -54.15 -46.50 -13.00 -41.15 -7.65 Peak







Site : 966 Chamber 5 Condition: PART27 VERTICAL

Remak : LTE Band 4 QPSK\_20M Link\_H-CH

Tested by: Thomas Wei

Read Limit Over

Freq Level Level Limit Factor Remark

MHz dBm dBm dBm dB dB

1 pp 3490.00 -54.02 -46.37 -13.00 -41.02 -7.65 Peak



#### LTE Band 17

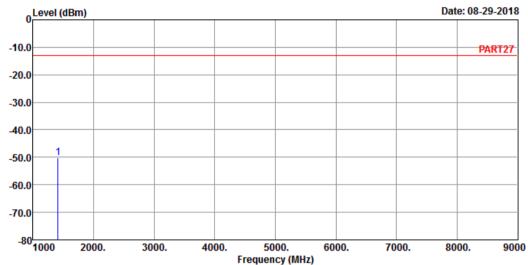
Channel Bandwidth: 5 MHz / QPSK

**Low Channel** 



# Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch





Site : 966 Chamber 5 Condition: PART27 HORIZONTAL

Remak : LTE Band 17 QPSK\_5M Link\_L-CH

Tested by: Jisyong Wang

Read Limit Over

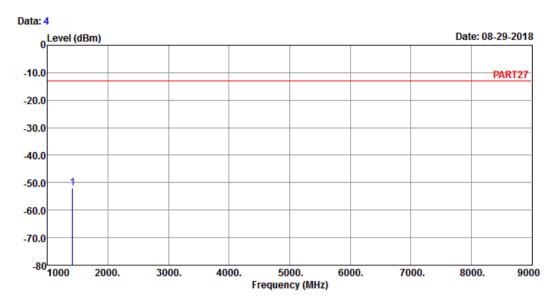
Freq Level Level Line Limit Factor Remark

MHz dBm dBm dBm dB dB

1 pp 1413.00 -50.12 -38.10 -13.00 -37.12 -12.02 Peak







Site : 966 Chamber 5 Condition: PART27 VERTICAL

Remak : LTE Band 17 QPSK\_5M Link\_L-CH

Tested by: Jisyong Wang

Read Limit Over

Freq Level Level Line Limit Factor Remark

MHz dBm dBm dBm dB dB

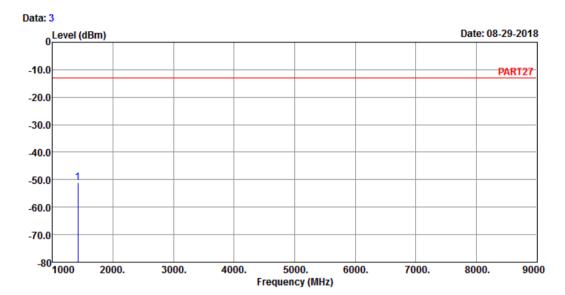
1 pp 1413.00 -51.99 -39.97 -13.00 -38.99 -12.02 Peak



#### **Middle Channel**



# Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 Chamber 5 Condition: PART27 HORIZONTAL

Remak : LTE Band 17 QPSK\_5M Link\_M-CH

Tested by: Jisyong Wang

Read Limit Over

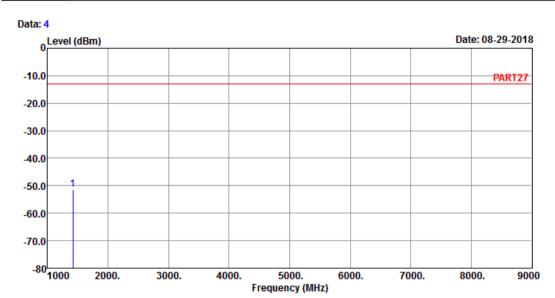
Freq Level Level Line Limit Factor Remark

MHz dBm dBm dB dB

1 pp 1420.00 -50.98 -38.84 -13.00 -37.98 -12.14 Peak







Site : 966 Chamber 5 Condition: PART27 VERTICAL

Remak : LTE Band 17 QPSK\_5M Link\_M-CH

Tested by: Jisyong Wang

Read Limit Over

Freq Level Level Line Limit Factor Remark

MHz dBm dBm dBm dB dB

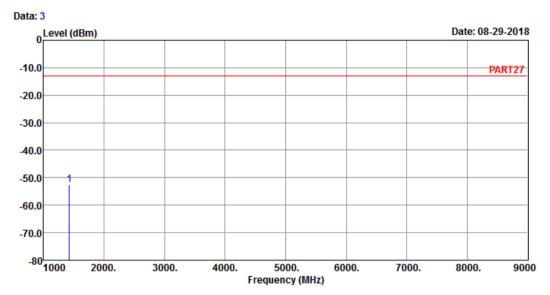
1 pp 1420.00 -51.23 -39.09 -13.00 -38.23 -12.14 Peak



#### **High Channel**



# Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 Chamber 5 Condition: PART27 HORIZONTAL

Remak : LTE Band 17 QPSK\_5M Link\_H-CH

Tested by: Jisyong Wang

Read Limit Over

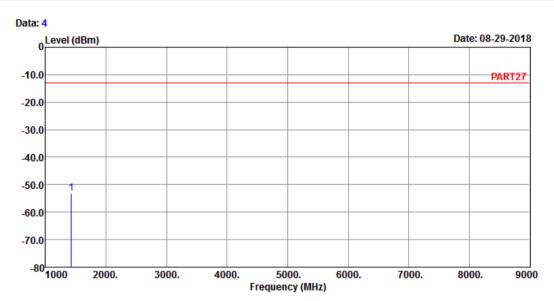
Freq Level Level Line Limit Factor Remark

MHz dBm dBm dBm dB dB dB

1 pp 1427.00 -52.45 -40.20 -13.00 -39.45 -12.25 Peak







Site : 966 Chamber 5 Condition: PART27 VERTICAL

Remak : LTE Band 17 QPSK\_5M Link\_H-CH

Tested by: Jisyong Wang

Read Limit Over

Freq Level Level Line Limit Factor Remark

MHz dBm dBm dBm dB dB

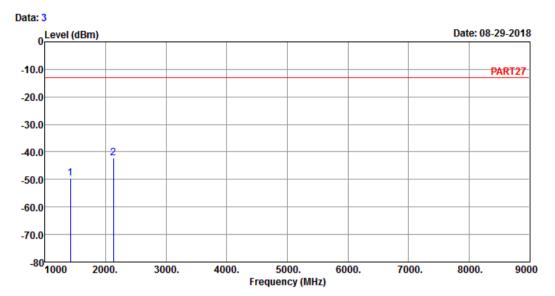
1 pp 1427.00 -53.11 -40.86 -13.00 -40.11 -12.25 Peak



# Channel Bandwidth: 10 MHz / QPSK Low Channel



#### Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 Chamber 5 Condition: PART27 HORIZONTAL

emak : LTE Band 17 QPSK\_10M Link\_L-CH

Tested by: Jisyong Wang

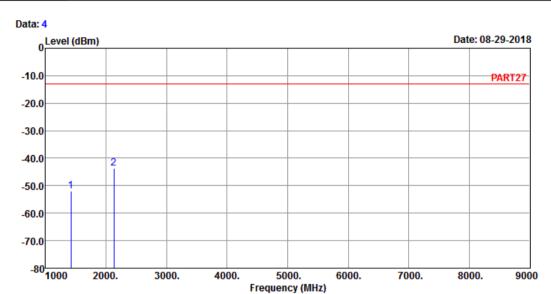
Read Limit Over
Freq Level Level Line Limit Factor Remark

MHz dBm dBm dBm dB dB

1 1418.00 -49.74 -37.60 -13.00 -36.74 -12.14 Peak 2 pp 2127.00 -42.17 -32.40 -13.00 -29.17 -9.77 Peak







Site : 966 Chamber 5 Condition: PART27 VERTICAL

Remak : LTE Band 17 QPSK\_10M Link\_L-CH

Tested by: Jisyong Wang

Read Limit Over Freq Level Level Line Limit Factor Remark

MHz dBm dBm dB dB

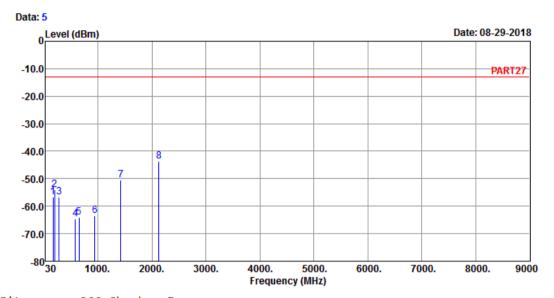
1 1418.00 -51.81 -39.67 -13.00 -38.81 -12.14 Peak 2 pp 2127.00 -43.74 -33.97 -13.00 -30.74 -9.77 Peak



#### **Middle Channel**



#### Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 Chamber 5 Condition: PART27 HORIZONTAL

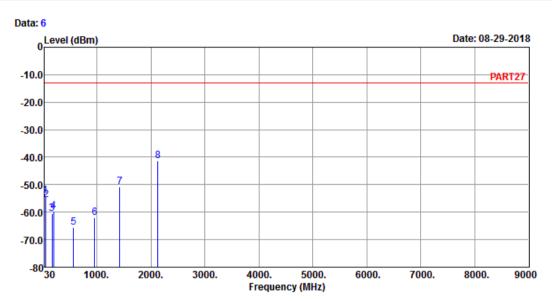
Remak : LTE Band 17 QPSK\_10M Link\_M-CH

Tested by: Jisyong Wang

Read Limit 0ver Freq Level Level Line Limit Factor Remark MHz dBm dBm dBm dB dB 1 169.68 -56.82 -51.29 -13.00 -43.82 -5.53 Peak 2 200.72 -54.10 -46.12 -13.00 -41.10 -7.98 Peak 283.17 -56.72 -50.05 -13.00 -43.72 -6.67 Peak 3 580.96 -64.60 -63.04 -13.00 -51.60 -1.56 Peak 5 647.89 -64.02 -63.14 -13.00 -51.02 -0.88 Peak 6 940.83 -63.37 -64.95 -13.00 -50.37 1.58 Peak 7 1420.00 -50.59 -38.45 -13.00 -37.59 -12.14 Peak 8 pp 2130.00 -43.63 -33.86 -13.00 -30.63 -9.77 Peak







Site : 966 Chamber 5 Condition: PART27 VERTICAL

Remak : LTE Band 17 QPSK\_10M Link\_M-CH

Tested by: Jisyong Wang

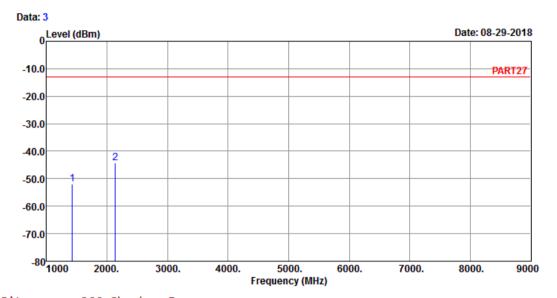
			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
-	MHz	——dBm	——dBm	——dBm	——dB	dB	
	11112	ubili	ubili	ubiii	ub	ub	
1	43.58	-53.88	-52.41	-13.00	-40.88	-1.47	Peak
2	53.28	-55.53	-49.72	-13.00	-42.53	-5.81	Peak
3	168.71	-60.40	-54.94	-13.00	-47.40	-5.46	Peak
4	197.81	-59.54	-51.71	-13.00	-46.54	-7.83	Peak
5	565.44	-65.68	-63.48	-13.00	-52.68	-2.20	Peak
6	957.32	-62.10	-64.17	-13.00	-49.10	2.07	Peak
7	1420.00	-50.72	-38.58	-13.00	-37.72	-12.14	Peak
8 pp	2130.00	-41.42	-31.65	-13.00	-28.42	-9.77	Peak



#### **High Channel**



# Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 Chamber 5 Condition: PART27 HORIZONTAL

Remak : LTE Band 17 QPSK\_10M Link\_H-CH

Tested by: Jisyong Wang

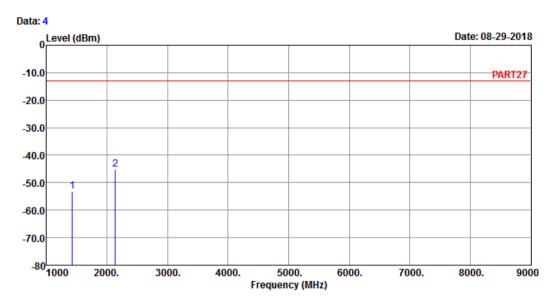
Read Limit Over
Freq Level Level Line Limit Factor Remark

MHz dBm dBm dB dB

1 1422.00 -51.87 -39.68 -13.00 -38.87 -12.19 Peak 2 pp 2133.00 -44.34 -34.67 -13.00 -31.34 -9.67 Peak







Site : 966 Chamber 5 Condition: PART27 VERTICAL

Remak : LTE Band 17 QPSK\_10M Link\_H-CH

Tested by: Jisyong Wang

Read Limit Over Freq Level Level Limit Factor Remark

MHz dBm dBm dB dB

1 1422.00 -53.00 -40.81 -13.00 -40.00 -12.19 Peak 2 pp 2133.00 -45.06 -35.39 -13.00 -32.06 -9.67 Peak



5 Pictures of Test Arrangements							
Please refer to the attached file (Test Setup Photo).							

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#### Appendix - Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

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

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Hsin Chu EMC/RF/Telecom Lab

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Web Site: <a href="mailto:www.bureauveritas-adt.com">www.bureauveritas-adt.com</a>

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

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