

Partial FCC Test Report

(PART 27)

Report No.: RFBGSN-WTW-P20080589-11 R1

FCC ID: NKS-MA1BA1TE1

Test Model: Trimble Gateway-MA1, Trimble Gateway-BA1, Trimble Gateway-TE1
(refer to item 3.1 for more details)

Received Date: Aug. 29, 2020

Test Date: Oct. 23, 2020 ~ Nov. 05, 2020

Issued Date: Dec. 01, 2020

Applicant: PeopleNet Communications Corporation

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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**FCC Registration /
Designation Number:** 788550 / TW0003



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Release Control Record

Issue No.	Description	Date Issued
RFBGSN-WTW-P20080589-11	Original Release	Nov. 13, 2020
RFBGSN-WTW-P20080589-11 R1	Revise model on section 3.1 Note 1 & 2	Dec. 01, 2020

1 Certificate of Conformity

Product: Trimble Gateway NA

Brand: Trimble

Test Model: Trimble Gateway-MA1, Trimble Gateway-BA1, Trimble Gateway-TE1
(refer to item 3.1 for more details)

Sample Status: Engineering Sample

Applicant: PeopleNet Communications Corporation

Test Date: Oct. 23, 2020 ~ Nov. 05, 2020

Standards: FCC Part 27, Subpart C, H, 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 : Vera Huang, **Date:** Dec. 01, 2020
Vera Huang / Specialist

Approved by : Dylan Chiou, **Date:** Dec. 01, 2020
Dylan Chiou / Senior Project Engineer

2 Summary of Test Results

Applied Standard: FCC Part 27 & Part 2 (WCDMA)			
FCC Clause	Test Item	Result	Remarks
2.1046 27.50(d)(4)	Equivalent Isotropic Radiated 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	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 -22.10 dB at 5197.80 MHz.

Applied Standard: FCC Part 27 & Part 2 (LTE 4)			
FCC Clause	Test Item	Result	Remarks
2.1046 27.50(d)(4)	Equivalent Isotropic Radiated 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	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 -22.94 dB at 5235.00 MHz.

Applied Standard: FCC Part 27 & Part 2 (LTE 12)			
FCC Clause	Test Item	Result	Remarks
2.1046 27.50(c)(10)	Equivalent Radiated 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	Occupied Bandwidth	N/A	Refer to Note
---	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 -3.63 dB at 2122.50 MHz.

Note:

1. Only ERP/EIRP and Radiated Spurious Emissions are performed for the addendum. Refer to BV CPS report no. RFBGSN-WTW-P20080589-2 for the other test data.
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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	Expanded Uncertainty (k=2) (±)
Radiated Emissions up to 1 GHz	9 kHz ~ 30 MHz	3.04 dB
	30 MHz ~ 200 MHz	2.93 dB
	200 MHz ~ 1000 MHz	2.95 dB
Radiated Emissions above 1 GHz	1 GHz ~ 18 GHz	2.26 dB
	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. 18, 2020	Mar. 17, 2021
Spectrum Analyzer Agilent	N9010A	MY52220314	Dec. 12, 2019	Dec. 11, 2020
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-969	Nov. 24, 2019	Nov. 23, 2020
BILOG Antenna SCHWARZBECK	VULB 9168	9168-472	Nov. 08, 2019	Nov. 07, 2020
Fixed Attenuator WOKEN	MDCS18N-10	MDCS18N-10-01	Apr. 14, 2020	Apr. 13, 2021
BILOG Antenna SCHWARZBECK	VULB 9168	9168-160	Nov. 07, 2019	Nov. 06, 2020
HORN Antenna SCHWARZBECK	9120D	9120D-1169	Nov. 24, 2019	Nov. 23, 2020
MXG Vector signal generator Agilent	N5182B	MY53050430	Oct. 25, 2019	Oct. 24, 2020
Preamplifier EMCI	EMC001340	980201	Oct. 21, 2020	Oct. 20, 2021
Preamplifier EMCI	EMC 012645	980115	Oct. 07, 2020	Oct. 06, 2021
Preamplifier EMCI	EMC 330H	980112	Oct. 07, 2020	Oct. 06, 2021
RF Coaxial Cable EMCI	EMC104-SM-SM-8000	180409	Jan. 18, 2020	Jan. 17, 2021
RF Coaxial Cable HUBER+SUHNNER	SUCOFLEX 104	EMC104-SM-SM-1000(140807)	Oct. 08, 2019	Oct. 07, 2020
			Oct. 07, 2020	Oct. 06, 2021
RF Coaxial Cable WOKEN	8D-FB	Cable-Ch10-01	Oct. 08, 2019	Oct. 07, 2020
			Oct. 07, 2020	Oct. 06, 2021
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
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 Anritsu	MT8821C	6201462755	Feb. 13, 2020	Feb. 12, 2021
Radio Communication Analyzer Anritsu	MT8820C	6201300640	Aug. 19, 2019	Aug. 18, 2021

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 General Information

3.1 General Description of EUT

Product	Trimble Gateway NA	
Brand	Trimble	
Test Model	Trimble Gateway-MA1, Trimble Gateway-BA1, Trimble Gateway-TE1	
Model Difference	Refer to note for more details	
Status of EUT	Engineering Sample	
Power Supply Rating	12 Vdc (adapter)	
Modulation Type	WCDMA IV	QPSK
	LTE	QPSK, 16QAM
Frequency Range	WCDMA IV	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
	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 12 (Channel Bandwidth: 1.4 MHz)	699.7 ~ 715.3 MHz
	LTE Band 12 (Channel Bandwidth: 3 MHz)	700.5 ~ 714.5 MHz
	LTE Band 12 (Channel Bandwidth: 5 MHz)	701.5 ~ 713.5 MHz
Max. ERP Power	LTE Band 12 (Channel Bandwidth: 10 MHz)	704.0 ~ 711.0 MHz
	LTE Band 12 (Channel Bandwidth: 1.4 MHz)	121.90 mW
	LTE Band 12 (Channel Bandwidth: 3 MHz)	128.82 mW
	LTE Band 12 (Channel Bandwidth: 5 MHz)	136.14 mW
Max. EIRP Power	LTE Band 12 (Channel Bandwidth: 10 MHz)	139.96 mW
	WCDMA	361.41 mW
	LTE Band 4 (Channel Bandwidth: 1.4 MHz)	316.96 mW
	LTE Band 4 (Channel Bandwidth: 3 MHz)	320.63 mW
	LTE Band 4 (Channel Bandwidth: 5 MHz)	325.09 mW
	LTE Band 4 (Channel Bandwidth: 10 MHz)	345.14 mW
	LTE Band 4 (Channel Bandwidth: 15 MHz)	356.45 mW
	LTE Band 4 (Channel Bandwidth: 20 MHz)	365.59 mW
Antenna Type	Refer to Note as below	
Accessory Device	N/A	
Data Cable Supplied	N/A	

Note:

1. The information of module collocated in the EUT is listed as below.

Module	Brand	Model	EUT Model		
			Trimble Gateway-MA1	Trimble Gateway-BA1	Trimble Gateway-TE1
BT/WLAN Module	msi	BM25	V	V	V
WWAN Module	Quectel	EC25-A	V	V	V

2. The difference between all models are listed as below.

Ant.	Brand	Model	Ant. Type	Remark	EUT Model		
					EUT 1	EUT 2	EUT 3
					Trimble Gateway-MA1	Trimble Gateway-BA1	Trimble Gateway-TE1
WWAN Antenna 1	TAOGLAS	PCS.06.A	SMD Antenna	Internal, Main Antenna	V		V
WWAN Antenna 2	TAOGLAS	PCS.06.B	SMD Antenna	Internal, Aux. Antenna	V	V	V
WWAN Antenna 3	TAOGLAS	MA240.LBI.001	Adhesive Mount Combination Antenna	External, Main Antenna	V		
WWAN Antenna 4	TAOGLAS	MA240.LBI.001	Adhesive Mount Combination Antenna	External, Aux. Antenna	V		
WWAN Antenna 5	PACCAR	PP407031	Exterior-mount Antenna	External, Main Antenna		V	
WLAN Antenna	TAOGLAS	FXP826.07.0120C	FPC Antenna	--	V	V	V

EUT Model	Connector
Trimble Gateway-MA1	a. 1 44-pin Sinbon connector b. 3 Fakra connectors for external antennas c. 1 M13 connector for ethernet
Trimble Gateway-BA1	a. 1 44-pin Sinbon connector b. 2 Fakra connectors for external antennas c. 1 M13 connector for ethernet
Trimble Gateway-TE1	1 44-pin Sinbon connector

3. The antenna gain is listed as below.

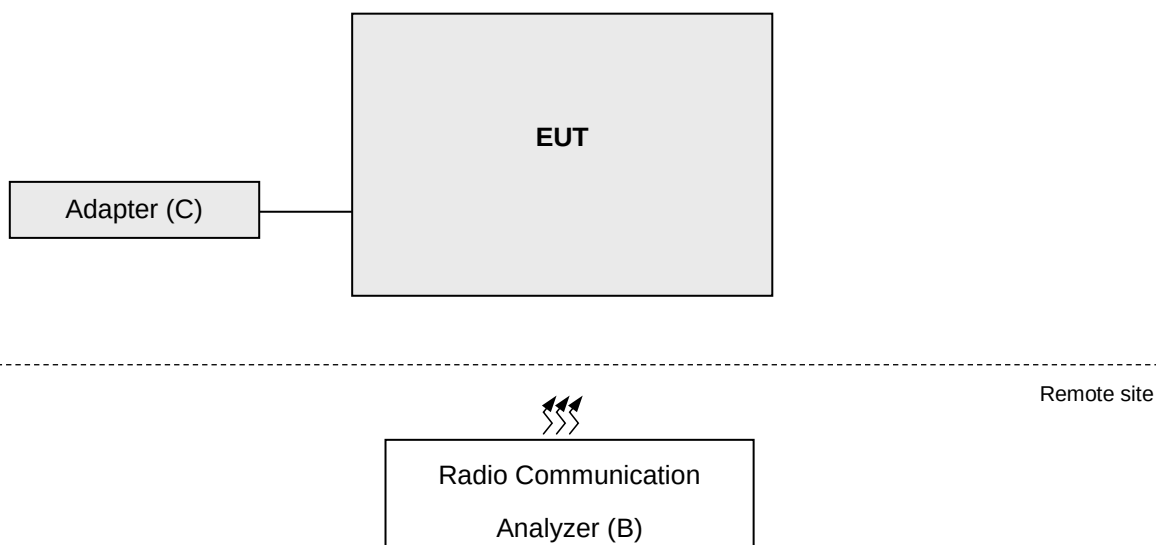
Band		WCDMA 4 / LTE 4	LTE 12
Gain (dBi)	Antenna 1	3.82	-0.03
	Antenna 2	4.04	0.06
	Antenna 3	1.93	1.6
	Antenna 4	1.2	1.2
	Antenna 5	3	3

4. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

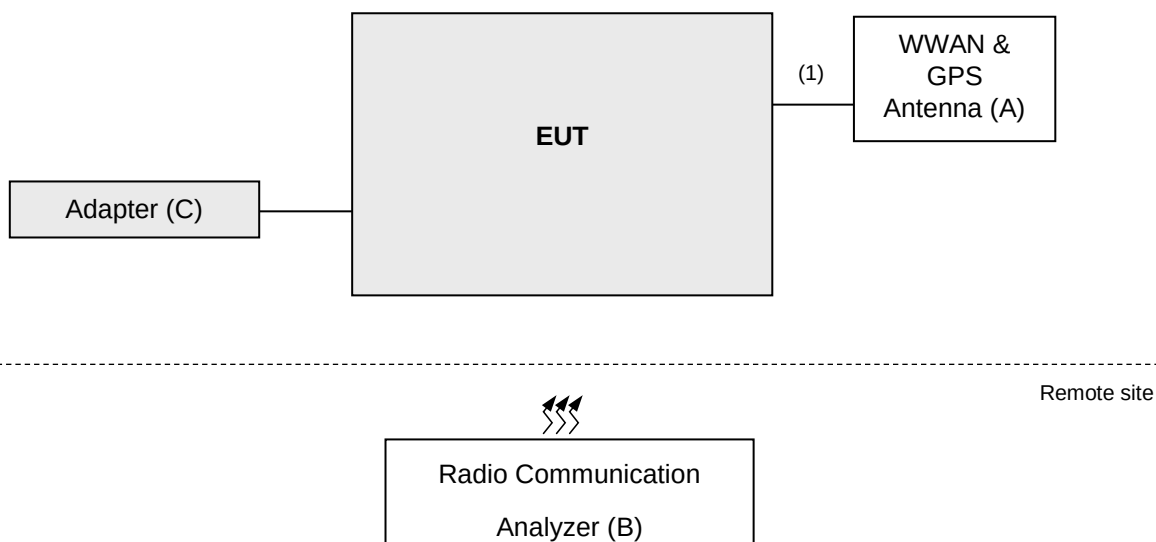
5. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

3.2 Configuration of System under Test

Mode A, D



Mode B, C



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.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	WWAN & GPS Antenna	TAOGLAS	MA240.LBI.001	NA	NA	For Mode B, Provided by client
		PACCAR	PP407031	NA	NA	For Mode C, Provided by client
B	Radio Communication Analyzer	Anritsu	MT8821C	6201462755	NA	--
C	Adapter	TPT	PMW120300W8	NA	NA	Provided by client AC Input: 100-240V~, 50-60Hz, 1.1A MAX DC Output: 12V, 3.0A

Note:

1. All power cords of the above support units are non-shielded (1.8m).
2. Item B acted as a communication partner to transfer data.

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	RF Cable	3	3	N	0	-

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:

EUT Configure Mode	Description
A	EUT 1 + Antenna 1 & 2
B	EUT 1 + Antenna 3 & 4
C	EUT 2 + Antenna 2 & 5
D	EUT 3 + Antenna 1 & 2

Band	EUT Configure Mode	ERP / EIRP	Radiated Emission
WCDMA	A	-	Z-plane
	B	-	Z-plane
	C	X-plane	X-plane
	D	-	Z-plane
LTE Band 4	A	-	Z-plane
	B	-	X-plane
	C	X-plane	X-plane
	D	-	Z-plane
LTE Band 12	A	-	Z-plane
	B	-	Z-plane
	C	X-plane	X-plane
	D	-	Z-plane

WCDMA

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Mode
C	EIRP	1312 to 1513	1312, 1413, 1513	WCDMA
A, D	Radiated Emission	1312 to 1513	1312	WCDMA
B	Radiated Emission	1312 to 1513	1513	WCDMA
C	Radiated Emission	1312 to 1513	1312, 1413, 1513	WCDMA

Note:

1. This device was tested under all modulations. The worst case of conducted output power was found in WCDMA modulation. Therefore, all test items were performed under WCDMA mode only.
2. For radiated emissions below 1 GHz, select the worst radiated emission channel (above 1GHz) for final testing.

LTE Band 4

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
C	EIRP	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
		19975 to 20375	19975, 20175, 20375	5 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		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
A, B, D	Radiated Emission	20050 to 20300	20050	20 MHz	QPSK	1 RB / 0 RB Offset
C	Radiated Emission	19957 to 20393	19957, 20175, 20393	1.4 MHz	QPSK	1 RB / 0 RB Offset
		19975 to 20375	19975, 20175, 20375	5 MHz	QPSK	1 RB / 0 RB Offset
		20050 to 20300	20050, 20175, 20300	20 MHz	QPSK	1 RB / 0 RB Offset

Note:

1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation. Therefore, only EIRP item had been tested under QPSK, 16QAM mode, the other items were performed under QPSK mode only.
2. For radiated emission above 1 GHz, according to 3GPP 36.521 Section 6.6.3.1.4, choose the lowest, 5 MHz & highest channel bandwidth for final test.
3. For radiated emissions below 1 GHz, select the worst radiated emission channel (above 1GHz) for final testing

LTE Band 12

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
C	ERP	23017 to 23173	23017, 23095, 23173	1.4 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		23025 to 23165	23025, 23095, 23165	3 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		23035 to 23155	23035, 23095, 23155	5 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		23060 to 23130	23060, 23095, 23130	10 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
A, B, D	Radiated Emission	23060 to 23130	23130	10 MHz	QPSK	1 RB / 0 RB Offset
C	Radiated Emission	23017 to 23173	23017, 23095, 23173	1.4 MHz	QPSK	1 RB / 0 RB Offset
		23035 to 23155	23035, 23095, 23155	5 MHz	QPSK	1 RB / 0 RB Offset
		23060 to 23130	23060, 23095, 23130	10 MHz	QPSK	1 RB / 0 RB Offset

Note:

1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation. Therefore, only ERP item had been tested under QPSK, 16QAM mode, the other items were performed under QPSK mode only.
2. For radiated emission above 1 GHz, according to 3GPP 36.521 Section 6.6.3.1.4, choose the lowest, 5 MHz & highest channel bandwidth for final test.
3. For radiated emissions below 1 GHz, select the worst radiated emission channel (above 1GHz) for final testing.

Test Condition:

Test Item	Environmental Conditions	Input Power	Tested By
ERP / EIRP	26 deg. C, 58 % RH	12 Vdc	Cyril Chen / Tim Chen
Radiated Emission	25 deg. C, 65 % RH	120 Vac, 60 Hz	Cyril Chen / Tim Chen

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 and references

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

Test Standard:

FCC 47 CFR Part 2

FCC 47 CFR Part 27

ANSI 63.26-2015

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

References Test Guidance:

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI/TIA/EIA-603-E 2016

Note: All test items have been performed as a reference to the above KDB test guidance.

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 and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

Control and mobile stations in the 698-746 MHz band are limited to 30 watts ERP.

Portable stations (hand-held device) operating in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink 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 is 5 MHz for WCDMA and 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz for LTE mode, and VBW $\geq 3 \times$ RBW.
- 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. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$. E.R.P power can be calculated from E.I.R.P power by subtracting the gain of dipole, $E.R.P \text{ power} = E.I.R.P \text{ power} - 2.15 \text{ dB}$.

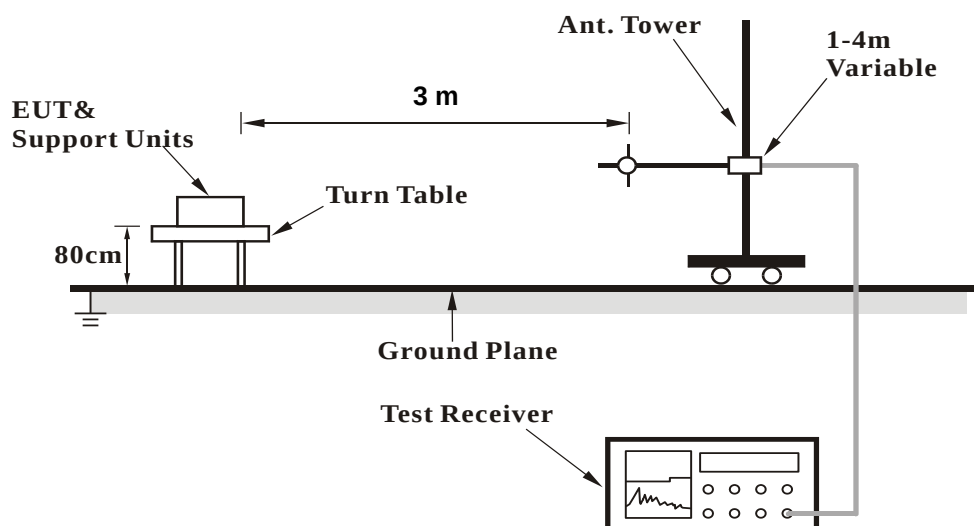
Conducted Power Measurement:

- a. The EUT was set up for the maximum power with WCDMA and LTE link data modulation and link up with simulator.
- b. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

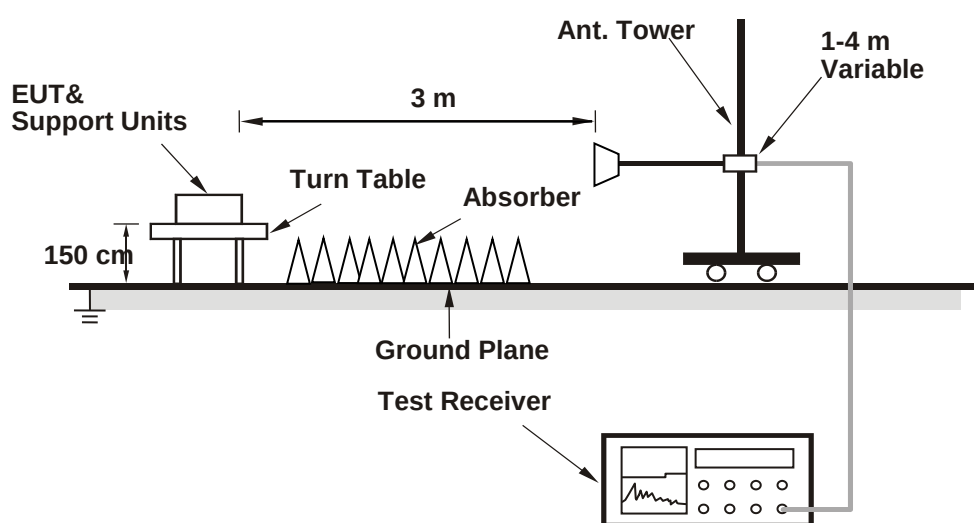
4.1.3 Test Setup

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).

Conducted Power Measurement:



4.1.4 Test Results

Conducted Output Power (dBm)

Band	WCDMA IV		
Channel	1312	1413	1513
Frequency (MHz)	1712.4	1732.6	1752.6
RMC 12.2K	22.51	22.47	22.57
HSDPA Subtest-1	21.65	21.61	21.64
HSDPA Subtest-2	21.61	21.58	21.61
HSDPA Subtest-3	21.54	21.51	21.54
HSDPA Subtest-4	21.51	21.50	21.51
HSUPA Subtest-1	21.61	21.58	21.61
HSUPA Subtest-2	19.58	19.60	19.64
HSUPA Subtest-3	20.63	20.64	20.66
HSUPA Subtest-4	19.54	19.50	19.56
HSUPA Subtest-5	21.56	21.54	21.55

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 19957	Mid Ch 20175	High Ch 20393		Low Ch 19957	Mid Ch 20175	High Ch 20393	
			1710.7 MHz	1732.5 MHz	1754.3 MHz		1710.7 MHz	1732.5 MHz	1754.3 MHz	
4 / 1.4M	1	0	21.82	21.99	21.97	0	20.87	20.99	20.82	1
	1	2	21.77	21.84	21.87	0	20.60	20.74	20.95	1
	1	5	21.47	21.82	21.75	0	20.48	20.56	20.63	1
	3	0	21.65	21.68	21.77	0	20.50	20.60	20.82	1
	3	1	21.35	21.73	21.60	0	20.34	20.40	20.50	1
	3	3	21.52	21.59	21.65	0	20.38	20.42	20.66	1
	6	0	20.70	20.89	20.78	1	19.82	19.85	19.65	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 19965	Mid Ch 20175	High Ch 20385		Low Ch 19965	Mid Ch 20175	High Ch 20385	
			1711.5 MHz	1732.5 MHz	1753.5 MHz		1711.5 MHz	1732.5 MHz	1753.5 MHz	
4 / 3M	1	0	21.96	22.12	22.10	0	20.84	21.00	21.07	1
	1	7	21.79	21.98	22.10	0	20.80	20.91	20.93	1
	1	14	21.71	21.78	21.81	0	20.52	20.69	20.73	1
	8	0	20.89	20.95	21.00	1	19.77	19.82	19.87	2
	8	3	20.65	20.64	20.82	1	19.53	19.71	19.64	2
	8	7	20.49	20.77	20.69	1	19.52	19.48	19.76	2
	15	0	20.77	20.82	20.97	1	19.73	19.80	19.89	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 19975	Mid Ch 20175	High Ch 20375		Low CH 19975	Mid CH 20175	High CH 20375	
			1712.5 MHz	1732.5 MHz	1752.5 MHz		1712.5 MHz	1732.5 MHz	1752.5 MHz	
4 / 5M	1	0	21.99	22.16	22.16	0	21.05	21.09	21.16	1
	1	12	21.97	22.02	22.08	0	20.99	21.03	21.02	1
	1	24	21.82	21.85	21.88	0	20.77	20.81	20.92	1
	12	0	21.06	21.01	21.07	1	19.95	19.96	19.98	2
	12	6	20.75	20.79	20.86	1	19.72	19.86	19.83	2
	12	13	20.67	20.86	20.85	1	19.64	19.73	19.77	2
	25	0	21.00	21.05	21.11	1	19.89	19.99	19.96	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 20000	Mid Ch 20175	High Ch 20350		Low Ch 20000	Mid Ch 20175	High Ch 20350	
			1715.0 MHz	1732.5 MHz	1750.0 MHz		1715.0 MHz	1732.5 MHz	1750.0 MHz	
4 / 10M	1	0	22.20	22.32	22.39	0	21.11	21.19	21.29	1
	1	24	22.09	22.15	22.22	0	21.07	21.24	21.28	1
	1	49	21.98	22.12	22.17	0	20.99	21.04	20.94	1
	25	0	21.07	21.21	21.31	1	20.04	20.07	20.20	2
	25	12	20.91	20.99	21.04	1	19.79	19.84	20.08	2
	25	25	20.84	20.94	20.93	1	19.73	19.80	19.83	2
	50	0	21.06	21.08	21.25	1	19.94	19.98	20.13	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 20025	Mid Ch 20175	High Ch 20325		Low Ch 20025	Mid Ch 20175	High Ch 20325	
			1717.5 MHz	1732.5 MHz	1747.5 MHz		1717.5 MHz	1732.5 MHz	1747.5 MHz	
4 / 15M	1	0	22.34	22.43	22.52	0	21.31	21.43	21.44	1
	1	37	22.16	22.32	22.35	0	21.20	21.21	21.37	1
	1	74	22.10	22.11	22.24	0	20.97	21.11	21.24	1
	36	0	21.21	21.37	21.37	1	20.22	20.17	20.35	2
	36	19	21.01	21.13	21.16	1	19.96	20.10	20.18	2
	36	39	20.97	21.05	21.01	1	19.86	19.99	20.06	2
	75	0	21.15	21.23	21.31	1	20.18	20.27	20.30	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 20050	Mid Ch 20175	High Ch 20300		Low Ch 20050	Mid Ch 20175	High Ch 20300	
			1720.0 MHz	1732.5 MHz	1745.0 MHz		1720.0 MHz	1732.5 MHz	1745.0 MHz	
4 / 20M	1	0	22.46	22.56	22.62	0	21.39	21.47	21.55	1
	1	50	22.32	22.47	22.49	0	21.26	21.40	21.44	1
	1	99	22.20	22.28	22.35	0	21.06	21.11	21.23	1
	50	0	21.33	21.42	21.51	1	20.29	20.39	20.41	2
	50	25	21.11	21.24	21.34	1	20.10	20.19	20.25	2
	50	50	21.02	21.16	21.17	1	19.99	20.03	20.11	2
	100	0	21.31	21.45	21.40	1	20.18	20.33	20.52	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 23017	Mid Ch 23095	High Ch 23173		Low Ch 23017	Mid Ch 23095	High Ch 23173	
			699.7 MHz	707.5 MHz	715.3 MHz		699.7 MHz	707.5 MHz	715.3 MHz	
12 / 1.4M	1	0	21.96	21.75	21.79	0	20.87	20.65	20.76	1
	1	2	21.92	21.60	21.69	0	20.75	20.44	20.66	1
	1	5	21.73	21.39	21.41	0	20.55	20.35	20.36	1
	3	0	21.82	21.50	21.54	0	20.68	20.27	20.54	1
	3	1	21.64	21.29	21.26	0	20.45	20.24	20.22	1
	3	3	21.67	21.41	21.40	0	20.62	20.11	20.41	1
	6	0	20.95	20.67	20.63	1	19.69	19.55	19.48	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 23025	Mid Ch 23095	High Ch 23165		Low Ch 23025	Mid Ch 23095	High Ch 23165	
			700.5 MHz	707.5 MHz	714.5 MHz		700.5 MHz	707.5 MHz	714.5 MHz	
12 / 3M	1	0	22.25	21.97	22.05	0	21.14	20.92	21.07	1
	1	7	22.07	21.87	21.86	0	21.03	20.77	20.91	1
	1	14	21.96	21.65	21.64	0	20.72	20.59	20.69	1
	8	0	21.09	20.83	20.89	1	19.95	19.82	19.77	2
	8	3	20.97	20.57	20.63	1	19.79	19.70	19.72	2
	8	7	20.86	20.58	20.67	1	19.64	19.59	19.51	2
	15	0	21.02	20.73	20.87	1	20.02	19.81	19.75	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 23035	Mid Ch 23095	High Ch 23155		Low Ch 23035	Mid Ch 23095	High Ch 23155	
			701.5 MHz	707.5 MHz	713.5 MHz		701.5 MHz	707.5 MHz	713.5 MHz	
12 / 5M	1	0	22.44	22.24	22.29	0	21.44	21.21	21.19	1
	1	12	22.29	22.13	22.13	0	21.30	21.04	21.04	1
	1	24	22.13	21.99	21.97	0	21.03	20.78	20.88	1
	12	0	21.33	21.04	21.13	1	20.14	20.03	19.97	2
	12	6	21.12	20.88	20.95	1	20.13	19.90	19.91	2
	12	13	21.04	20.85	20.84	1	20.03	19.79	19.79	2
	25	0	21.26	21.08	21.13	1	20.31	20.00	20.05	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 23060	Mid Ch 23095	High Ch 23130		Low Ch 23060	Mid Ch 23095	High Ch 23130	
			704.0 MHz	707.5 MHz	711.0 MHz		704.0 MHz	707.5 MHz	711.0 MHz	
12 / 10M	1	0	22.56	22.34	22.40	0	21.51	21.30	21.33	1
	1	24	22.47	22.21	22.25	0	21.44	21.21	21.19	1
	1	49	22.26	22.09	22.04	0	21.27	20.91	21.01	1
	25	0	21.41	21.20	21.28	1	20.33	20.04	20.29	2
	25	12	21.21	21.02	21.07	1	20.17	20.03	20.07	2
	25	25	21.17	20.96	21.03	1	20.08	19.89	19.98	2
	50	0	21.42	21.22	21.20	1	20.37	20.06	20.10	2

Mode C

ERP Power (dBm)

LTE Band 12							
Channel Bandwidth: 1.4 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
X	23017	699.7	-16.48	30.36	13.88	24.43	H
	23095	707.5	-16.83	30.17	13.34	21.58	
	23173	715.3	-16.37	30.17	13.80	23.99	
	23017	699.7	-12.01	32.03	20.02	100.46	V
	23095	707.5	-11.59	31.98	20.39	109.40	
	23173	715.3	-11.20	32.06	20.86	121.90	
Channel Bandwidth: 1.4 MHz / 16QAM							
X	23017	699.7	-18.48	30.36	11.88	15.42	H
	23095	707.5	-17.81	30.17	12.36	17.22	
	23173	715.3	-17.33	30.17	12.84	19.23	
	23017	699.7	-12.99	32.03	19.04	80.17	V
	23095	707.5	-12.47	31.98	19.51	89.33	
	23173	715.3	-12.15	32.06	19.91	97.95	

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

LTE Band 12							
Channel Bandwidth: 3 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
X	23025	700.5	-16.96	30.17	13.21	20.94	H
	23095	707.5	-16.50	30.17	13.67	23.28	
	23165	714.5	-16.04	30.18	14.14	25.94	
	23025	700.5	-11.80	31.96	20.16	103.75	V
	23095	707.5	-11.36	31.98	20.62	115.35	
	23165	714.5	-10.93	32.03	21.10	128.82	
Channel Bandwidth: 3 MHz / 16QAM							
X	23025	700.5	-16.25	30.17	13.92	24.66	H
	23095	707.5	-17.77	30.17	12.40	17.38	
	23165	714.5	-17.29	30.18	12.89	19.45	
	23025	700.5	-12.88	31.96	19.08	80.91	V
	23095	707.5	-12.46	31.98	19.52	89.54	
	23165	714.5	-12.02	32.03	20.01	100.23	

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

LTE Band 12							
Channel Bandwidth: 5 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
X	23035	701.5	-16.81	30.17	13.36	21.68	H
	23095	707.5	-16.36	30.17	13.81	24.04	
	23155	713.5	-15.87	30.18	14.31	26.98	
	23035	701.5	-11.58	31.96	20.38	109.14	V
	23095	707.5	-11.13	31.98	20.85	121.62	
	23155	713.5	-10.69	32.03	21.34	136.14	
Channel Bandwidth: 5 MHz / 16QAM							
X	23035	701.5	-17.79	30.17	12.38	17.30	H
	23095	707.5	-17.32	30.17	12.85	19.28	
	23155	713.5	-17.11	30.18	13.07	20.28	
	23035	701.5	-12.58	31.96	19.38	86.70	V
	23095	707.5	-12.11	31.98	19.87	97.05	
	23155	713.5	-11.68	32.03	20.35	108.39	

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

LTE Band 12							
Channel Bandwidth: 10 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
X	23060	704.0	-16.63	30.17	13.54	22.59	H
	23095	707.5	-16.17	30.17	14.00	25.12	
	23130	711.0	-15.75	30.18	14.43	27.73	
	23060	704.0	-11.36	31.96	20.60	114.82	V
	23095	707.5	-10.93	31.98	21.05	127.35	
	23130	711.0	-10.57	32.03	21.46	139.96	
Channel Bandwidth: 10 MHz / 16QAM							
X	23060	704.0	-17.76	30.17	12.41	17.42	H
	23095	707.5	-17.31	30.17	12.86	19.32	
	23130	711.0	-16.83	30.18	13.35	21.63	
	23060	704.0	-12.53	31.96	19.43	87.70	V
	23095	707.5	-12.09	31.98	19.89	97.50	
	23130	711.0	-11.69	32.03	20.34	108.14	

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

EIRP Power (dBm)

WCDMA							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
X	1312	1712.4	-17.63	36.29	18.66	73.45	H
	1413	1732.6	-17.98	36.69	18.71	74.30	
	1513	1752.6	-18.00	36.98	18.98	79.07	
	1312	1712.4	-11.84	37.11	25.27	336.51	V
	1413	1732.6	-12.28	37.60	25.32	340.41	
	1513	1752.6	-12.07	37.65	25.58	361.41	

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)
X	19957	1710.7	-18.47	36.45	17.98	62.81	H
	20175	1732.5	-19.42	36.80	17.38	54.70	
	20393	1754.3	-20.10	36.94	16.84	48.31	
	19957	1710.7	-12.27	37.28	25.01	316.96	V
	20175	1732.5	-13.20	37.63	24.43	277.33	
	20393	1754.3	-13.75	37.64	23.89	244.91	
Channel Bandwidth: 1.4 MHz / 16QAM							
X	19957	1710.7	-19.50	36.45	16.95	49.55	H
	20175	1732.5	-20.42	36.80	16.38	43.45	
	20393	1754.3	-21.15	36.94	15.79	37.93	
	19957	1710.7	-13.24	37.28	24.04	253.51	V
	20175	1732.5	-14.19	37.63	23.44	220.80	
	20393	1754.3	-14.80	37.64	22.84	192.31	

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

LTE Band 4							
Channel Bandwidth: 3 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
X	19965	1711.5	-18.44	36.45	18.01	63.24	H
	20175	1732.5	-19.36	36.80	17.44	55.46	
	20385	1753.5	-20.03	36.94	16.91	49.09	
	19965	1711.5	-12.22	37.28	25.06	320.63	V
	20175	1732.5	-13.06	37.63	24.57	286.42	
	20385	1753.5	-13.62	37.64	24.02	252.35	
Channel Bandwidth: 3 MHz / 16QAM							
X	19965	1711.5	-19.41	36.45	17.04	50.58	H
	20175	1732.5	-20.34	36.80	16.46	44.26	
	20385	1753.5	-21.04	36.94	15.90	38.90	
	19965	1711.5	-13.21	37.28	24.07	255.27	V
	20175	1732.5	-14.16	37.63	23.47	222.33	
	20385	1753.5	-14.73	37.64	22.91	195.43	

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)
X	19975	1712.5	-18.42	36.45	18.03	63.53	H
	20175	1732.5	-19.34	36.80	17.46	55.72	
	20375	1752.5	-20.04	36.94	16.90	48.98	
	19975	1712.5	-12.16	37.28	25.12	325.09	V
	20175	1732.5	-13.07	37.63	24.56	285.76	
	20375	1752.5	-13.64	37.64	24.00	251.19	
Channel Bandwidth: 5 MHz / 16QAM							
X	19975	1712.5	-19.37	36.45	17.08	51.05	H
	20175	1732.5	-20.29	36.80	16.51	44.77	
	20375	1752.5	-21.00	36.94	15.94	39.26	
	19975	1712.5	-13.13	37.28	24.15	260.02	V
	20175	1732.5	-14.02	37.63	23.61	229.61	
	20375	1752.5	-14.58	37.64	23.06	202.30	

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

LTE Band 4							
Channel Bandwidth: 10 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
X	20000	1715.0	-18.35	36.64	18.29	67.45	H
	20175	1732.5	-19.08	36.80	17.72	59.16	
	20350	1750.0	-19.65	36.80	17.15	51.88	
	20000	1715.0	-12.06	37.44	25.38	345.14	V
	20175	1732.5	-12.82	37.63	24.81	302.69	
	20350	1750.0	-13.34	37.64	24.30	269.15	
Channel Bandwidth: 10 MHz / 16QAM							
X	20000	1715.0	-19.36	36.64	17.28	53.46	H
	20175	1732.5	-20.12	36.80	16.68	46.56	
	20350	1750.0	-20.66	36.80	16.14	41.11	
	20000	1715.0	-13.09	37.44	24.35	272.27	V
	20175	1732.5	-13.87	37.63	23.76	237.68	
	20350	1750.0	-14.44	37.64	23.20	208.93	

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)
X	20025	1717.5	-17.97	36.45	18.48	70.47	H
	20175	1732.5	-18.88	36.80	17.92	61.94	
	20325	1747.5	-19.57	36.94	17.37	54.58	
	20025	1717.5	-11.76	37.28	25.52	356.45	V
	20175	1732.5	-12.72	37.63	24.91	309.74	
	20325	1747.5	-13.26	37.64	24.38	274.16	
Channel Bandwidth: 15 MHz / 16QAM							
X	20025	1717.5	-19.03	36.45	17.42	55.21	H
	20175	1732.5	-19.88	36.80	16.92	49.20	
	20325	1747.5	-20.60	36.94	16.34	43.05	
	20025	1717.5	-12.83	37.28	24.45	278.61	V
	20175	1732.5	-13.77	37.63	23.86	243.22	
	20325	1747.5	-14.29	37.64	23.35	216.27	

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

LTE Band 4							
Channel Bandwidth: 20 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
X	20050	1720.0	-17.88	36.45	18.57	71.94	H
	20175	1732.5	-18.82	36.80	17.98	62.81	
	20300	1745.0	-19.46	36.94	17.48	55.98	
	20050	1720.0	-11.65	37.28	25.63	365.59	V
	20175	1732.5	-12.56	37.63	25.07	321.37	
	20300	1745.0	-13.07	37.64	24.57	286.42	
Channel Bandwidth: 20 MHz / 16QAM							
X	20050	1720.0	-18.97	36.45	17.48	55.98	H
	20175	1732.5	-19.84	36.80	16.96	49.66	
	20300	1745.0	-20.48	36.94	16.46	44.26	
	20050	1720.0	-12.73	37.28	24.55	285.10	V
	20175	1732.5	-13.66	37.63	23.97	249.46	
	20300	1745.0	-14.18	37.64	23.46	221.82	

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

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. EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn.
- c. E.R.P power can be calculated from E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.R.P power - 2.15 dB.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz.
2. The emission levels were against the limit of frequency range 9 kHz ~ 30 MHz:

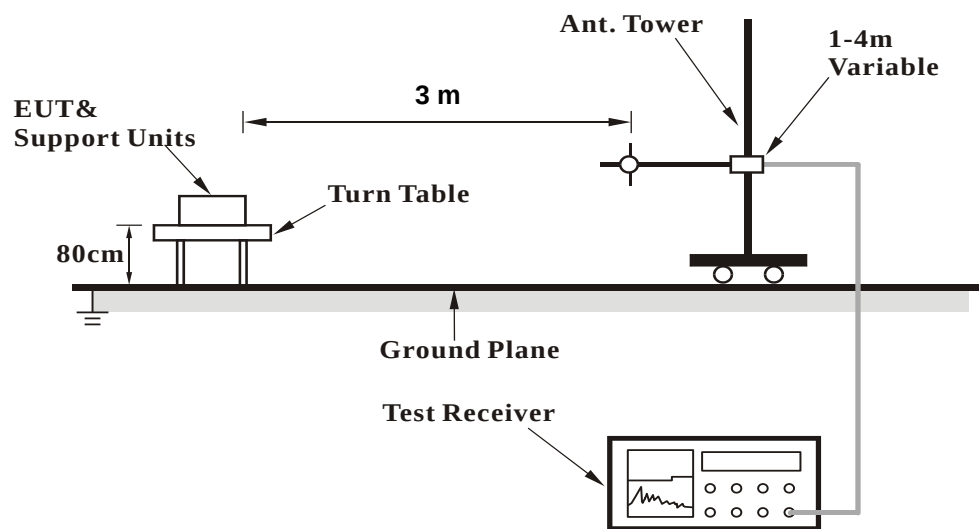
The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

4.2.3 Deviation from Test Standard

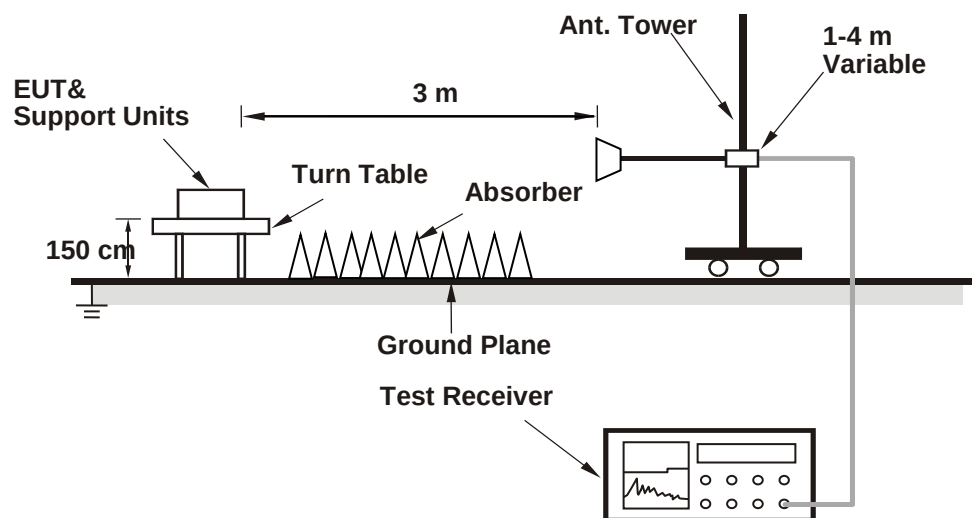
No deviation.

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

Mode A

WCDMA:

Low Channel

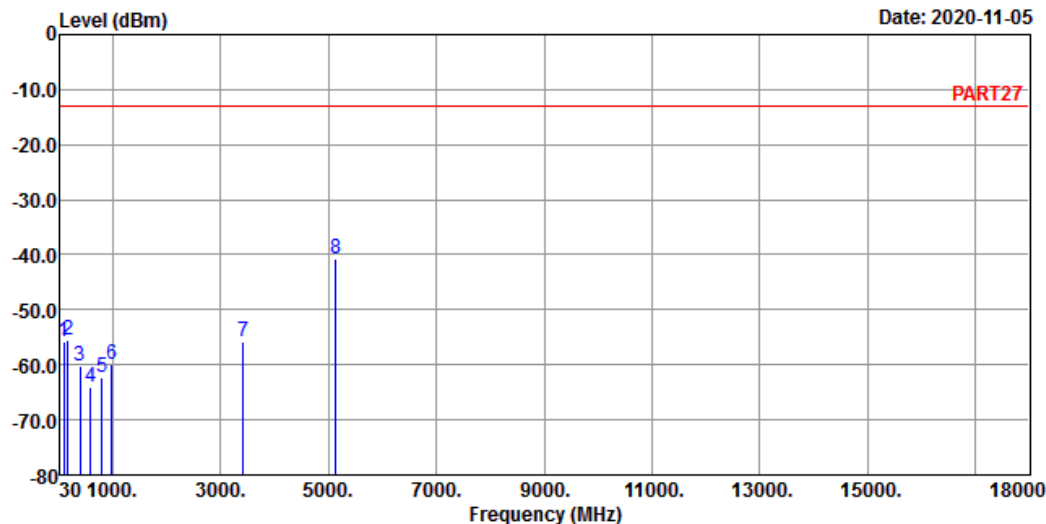


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 2020-11-05



Site : 966 Chamber 5

Condition: PART27 HORIZONTAL

Remak : WCDMA Band 4 Link_L-CH

Tested by: Cyril Chen

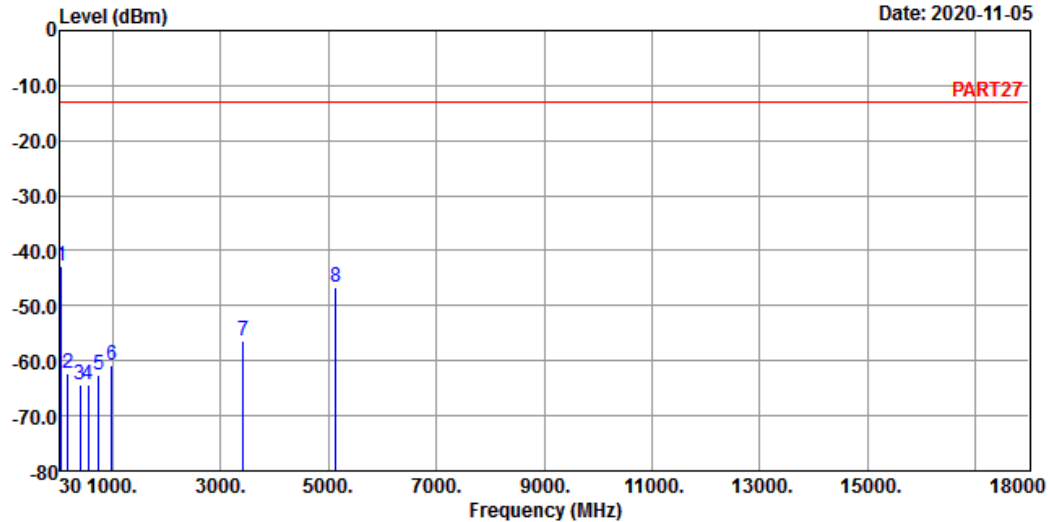
	Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	97.90	-55.81	-45.14	-13.00	-10.67	-42.81	Peak
2	169.68	-55.54	-50.01	-13.00	-5.53	-42.54	Peak
3	401.51	-60.09	-54.16	-13.00	-5.93	-47.09	Peak
4	595.51	-64.18	-63.23	-13.00	-0.95	-51.18	Peak
5	801.15	-62.26	-62.99	-13.00	0.73	-49.26	Peak
6	975.75	-60.05	-62.77	-13.00	2.72	-47.05	Peak
7	3424.80	-55.69	-47.35	-13.00	-8.34	-42.69	Peak
8 pp	5137.20	-40.85	-39.11	-13.00	-1.74	-27.85	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6



Site : 966 Chamber 5
Condition: PART27 VERTICAL
Remak : WCDMA Band 4 Link_L-CH
Tested by: Cyril Chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	43.58	-42.66	-41.19	-13.00	-1.47	-29.66	Peak
2	162.89	-62.35	-57.30	-13.00	-5.05	-49.35	Peak
3	393.75	-64.32	-58.34	-13.00	-5.98	-51.32	Peak
4	551.86	-64.43	-61.66	-13.00	-2.77	-51.43	Peak
5	744.89	-62.66	-63.44	-13.00	0.78	-49.66	Peak
6	976.72	-60.82	-63.58	-13.00	2.76	-47.82	Peak
7	3424.80	-56.40	-48.06	-13.00	-8.34	-43.40	Peak
8	5137.20	-46.75	-45.01	-13.00	-1.74	-33.75	Peak

LTE Band 4

Channel Bandwidth: 20 MHz / QPSK

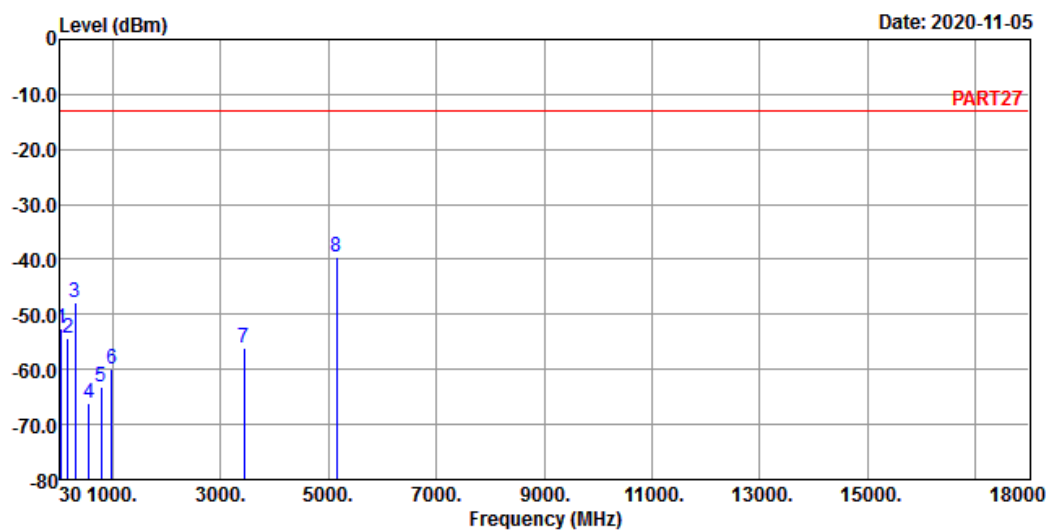
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 Chamber 5

Condition: PART27 HORIZONTAL

Remak : LTE Band 4 QPSK_20M Link_L-CH

Tested by: Cyril Chen

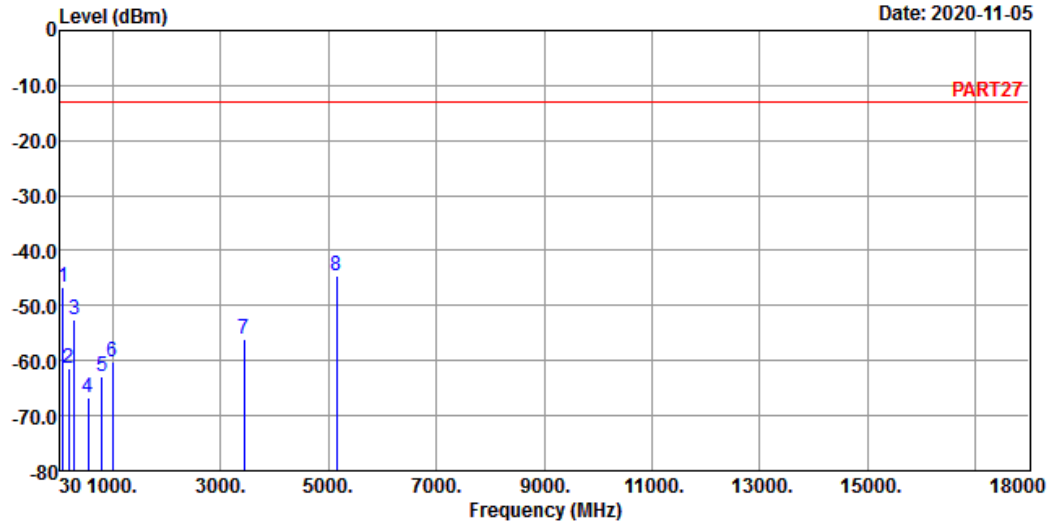
	Freq	Level	Read Level	Limit	Over		
	MHz	dBm	dBm	dBm	Line Factor	Limit	Remark
1	42.61	-52.45	-51.51	-13.00	-0.94	-39.45	Peak
2	162.89	-54.43	-49.38	-13.00	-5.05	-41.43	Peak
3	300.63	-47.72	-40.72	-13.00	-7.00	-34.72	Peak
4	567.38	-66.00	-63.88	-13.00	-2.12	-53.00	Peak
5	787.57	-63.12	-63.89	-13.00	0.77	-50.12	Peak
6	983.51	-59.94	-62.94	-13.00	3.00	-46.94	Peak
7	3440.00	-56.05	-47.83	-13.00	-8.22	-43.05	Peak
8 pp	5160.00	-39.65	-37.74	-13.00	-1.91	-26.65	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6



Site : 966 Chamber 5
Condition: PART27 VERTICAL
Remak : LTE Band 4 QPSK_20M Link_L-CH
Tested by: Cyril Chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	78.50	-46.58	-36.15	-13.00	-10.43	-33.58	Peak
2	189.08	-61.51	-54.39	-13.00	-7.12	-48.51	Peak
3	294.81	-52.49	-45.58	-13.00	-6.91	-39.49	Peak
4	543.13	-66.73	-63.64	-13.00	-3.09	-53.73	Peak
5	800.18	-63.00	-63.74	-13.00	0.74	-50.00	Peak
6	997.09	-60.24	-63.72	-13.00	3.48	-47.24	Peak
7	3440.00	-56.00	-47.78	-13.00	-8.22	-43.00	Peak
8 pp	5160.00	-44.53	-42.62	-13.00	-1.91	-31.53	Peak

LTE Band 12

Channel Bandwidth: 10 MHz / QPSK

High Channel

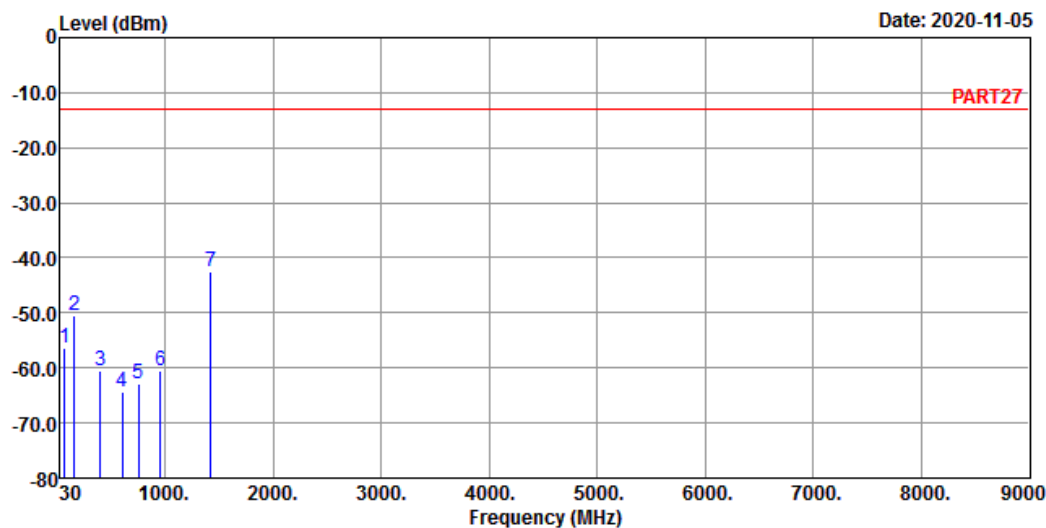


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 2020-11-05



Site : 966 Chamber 5

Condition: PART27 HORIZONTAL

Remak : LTE Band 12 QPSK_10M Link_H-CH

Tested by: Cyril Chen

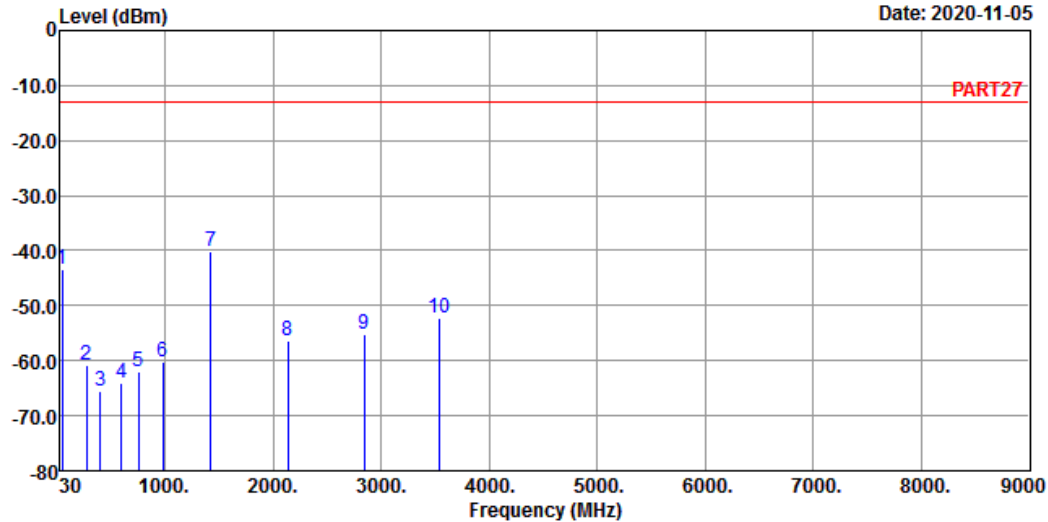
	Freq	Level	Read Level	Limit	Over	
	MHz	dBm	dBm	dBm	dB	Limit Remark
1	68.80	-56.41	-48.09	-13.00	-8.32	-43.41 Peak
2	162.89	-50.47	-45.42	-13.00	-5.05	-37.47 Peak
3	401.51	-60.60	-54.67	-13.00	-5.93	-47.60 Peak
4	606.18	-64.48	-63.71	-13.00	-0.77	-51.48 Peak
5	757.50	-62.85	-63.71	-13.00	0.86	-49.85 Peak
6	954.41	-60.37	-62.34	-13.00	1.97	-47.37 Peak
7 pp	1422.00	-42.38	-30.19	-13.00	-12.19	-29.38 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6



Site : 966 Chamber 5
Condition: PART27 VERTICAL
Remak : LTE Band 12 QPSK_10M Link_H-CH
Tested by: Cyril Chen

	Freq	Level	Read Level	Limit Line	Over Factor	Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	43.58	-43.30	-41.83	-13.00	-1.47	-30.30	Peak
2	272.50	-60.76	-54.31	-13.00	-6.45	-47.76	Peak
3	402.48	-65.45	-59.52	-13.00	-5.93	-52.45	Peak
4	597.45	-64.08	-63.21	-13.00	-0.87	-51.08	Peak
5	751.68	-62.08	-62.95	-13.00	0.87	-49.08	Peak
6	981.57	-60.12	-63.05	-13.00	2.93	-47.12	Peak
7 pp	1422.00	-40.22	-28.03	-13.00	-12.19	-27.22	Peak
8	2133.00	-56.48	-46.81	-13.00	-9.67	-43.48	Peak
9	2844.00	-55.33	-46.87	-13.00	-8.46	-42.33	Peak
10	3536.00	-52.31	-45.09	-13.00	-7.22	-39.31	Peak

Mode B

WCDMA:

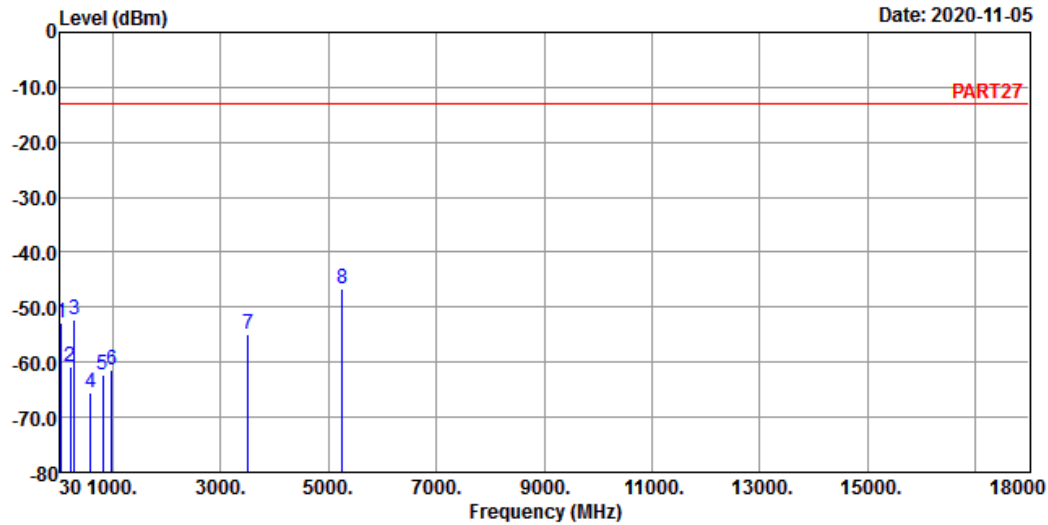
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 Chamber 5

Condition: PART27 HORIZONTAL

Remak : WCDMA Band 4 Link_H-CH

Tested by: Cyril Chen

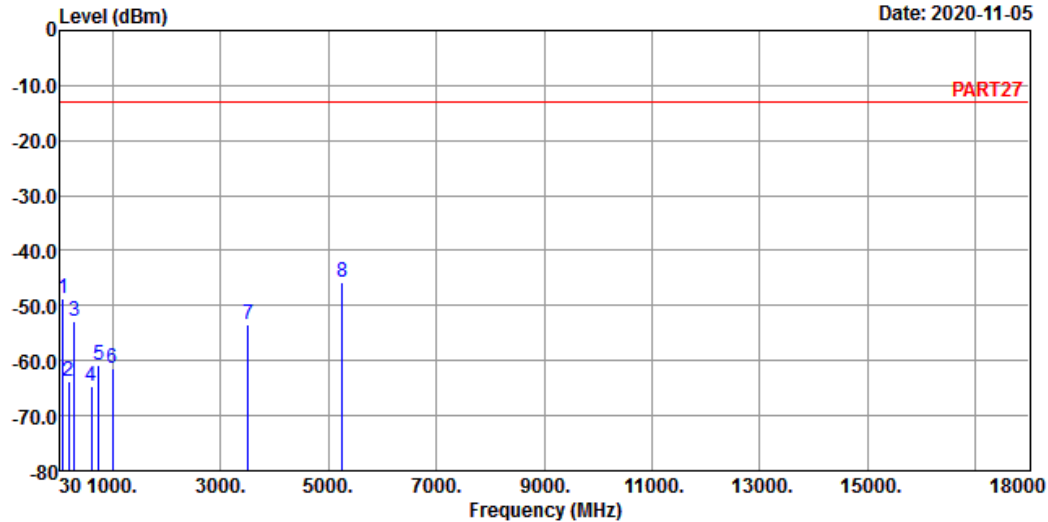
	Freq	Level	Read Level	Limit	Over		
	MHz	dBm	dBm	dBm	Factor	Limit	Remark
1	43.58	-52.82	-51.35	-13.00	-1.47	-39.82	Peak
2	218.18	-60.86	-53.58	-13.00	-7.28	-47.86	Peak
3	296.75	-52.15	-45.20	-13.00	-6.95	-39.15	Peak
4	593.57	-65.46	-64.42	-13.00	-1.04	-52.46	Peak
5	822.49	-62.21	-62.75	-13.00	0.54	-49.21	Peak
6	986.42	-61.32	-64.42	-13.00	3.10	-48.32	Peak
7	3505.20	-54.82	-47.37	-13.00	-7.45	-41.82	Peak
8 pp	5257.80	-46.57	-44.05	-13.00	-2.52	-33.57	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6



Site : 966 Chamber 5
Condition: PART27 VERTICAL
Remak : WCDMA Band 4 Link_H-CH
Tested by: Cyril Chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	78.50	-48.71	-38.28	-13.00	-10.43	-35.71	Peak
2	188.11	-63.77	-56.62	-13.00	-7.15	-50.77	Peak
3	294.81	-52.86	-45.95	-13.00	-6.91	-39.86	Peak
4	612.97	-64.54	-63.75	-13.00	-0.79	-51.54	Peak
5	746.83	-60.78	-61.60	-13.00	0.82	-47.78	Peak
6	997.09	-61.52	-65.00	-13.00	3.48	-48.52	Peak
7	3505.20	-53.51	-46.06	-13.00	-7.45	-40.51	Peak
8 pp	5257.80	-45.70	-43.18	-13.00	-2.52	-32.70	Peak

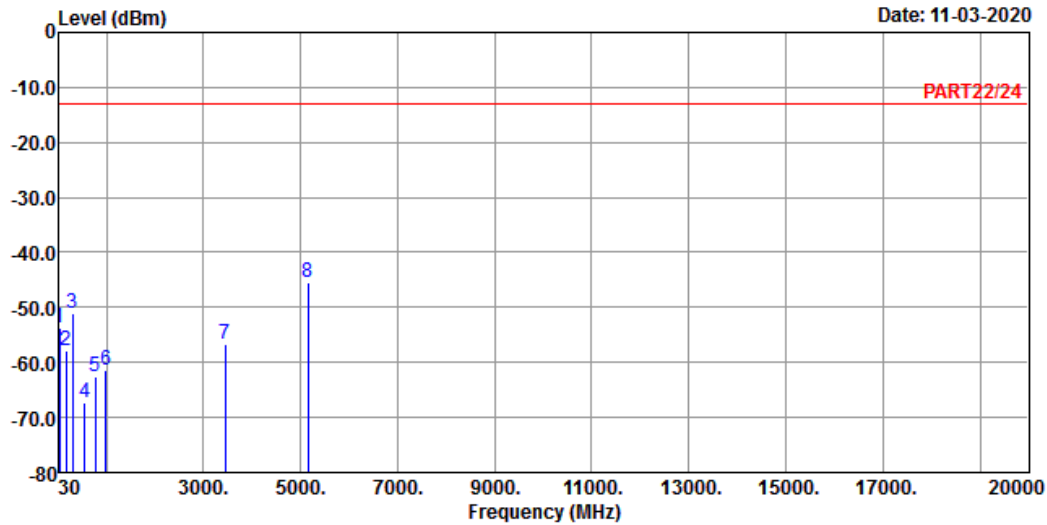
LTE Band 4
Channel Bandwidth: 20 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 Chamber 5
Condition: PART22/24 HORIZONTAL
Remak : LTE Band 4 QPSK_20M Link_L-CH
Tested by: Cyril Chen

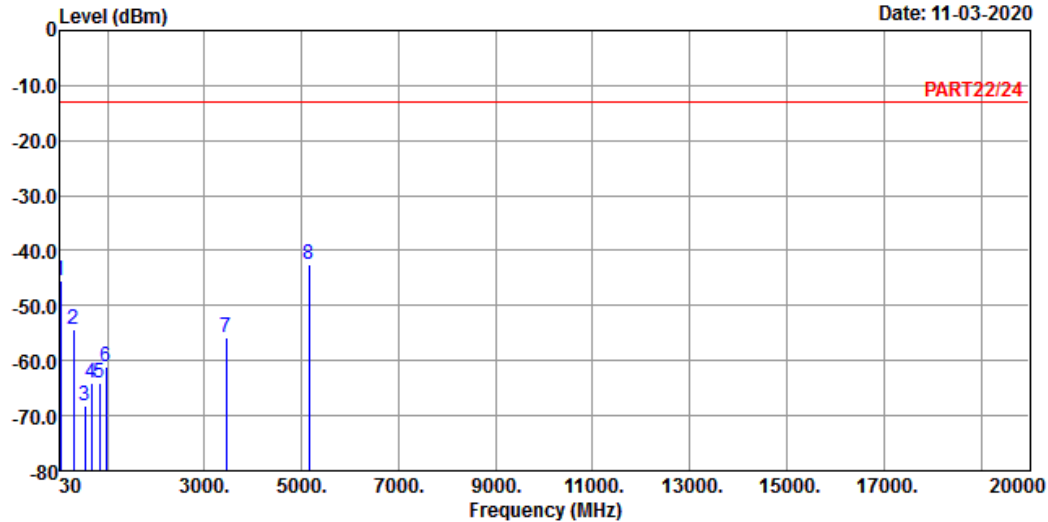
	Freq	Level	Read Level	Limit	Over	
	MHz	dBm	dBm	dBm	dB	dB
1	42.61	-53.87	-52.93	-13.00	-0.94	-40.87 Peak
2	164.83	-57.86	-52.67	-13.00	-5.19	-44.86 Peak
3	294.81	-51.17	-44.26	-13.00	-6.91	-38.17 Peak
4	547.98	-67.32	-64.40	-13.00	-2.92	-54.32 Peak
5	763.32	-62.61	-63.45	-13.00	0.84	-49.61 Peak
6	982.54	-61.46	-64.42	-13.00	2.96	-48.46 Peak
7	3440.00	-56.54	-48.32	-13.00	-8.22	-43.54 Peak
8 pp	5160.00	-45.43	-43.52	-13.00	-1.91	-32.43 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6



Site : 966 Chamber 5

Condition: PART22/24 VERTICAL

Remak : LTE Band 4 QPSK_20M Link_L-CH

Tested by: Cyril Chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	42.61	-45.44	-44.50	-13.00	-0.94	-32.44	Peak
2	300.63	-54.43	-47.43	-13.00	-7.00	-41.43	Peak
3	544.10	-68.33	-65.27	-13.00	-3.06	-55.33	Peak
4	678.93	-64.18	-63.75	-13.00	-0.43	-51.18	Peak
5	838.98	-64.04	-64.43	-13.00	0.39	-51.04	Peak
6	967.99	-61.06	-63.51	-13.00	2.45	-48.06	Peak
7	3440.00	-55.88	-47.66	-13.00	-8.22	-42.88	Peak
8 pp	5160.00	-42.40	-40.49	-13.00	-1.91	-29.40	Peak

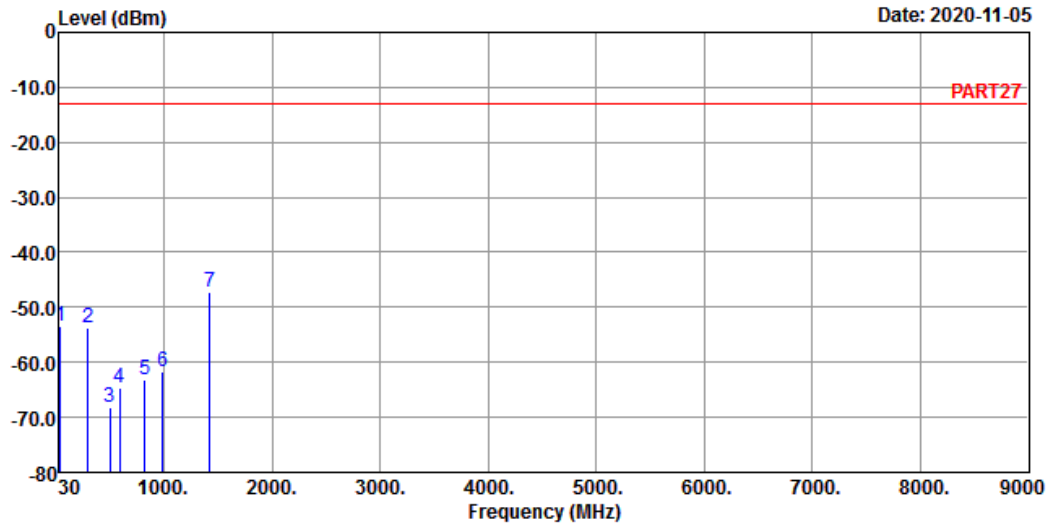
LTE Band 12
Channel Bandwidth: 10 MHz / QPSK
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : LTE Band 12 QPSK_10M Link_H-CH
Tested by: Cyril Chen

	Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	42.61	-53.56	-52.62	-13.00	-0.94	-40.56	Peak
2	295.78	-53.79	-46.86	-13.00	-6.93	-40.79	Peak
3	494.63	-68.20	-63.48	-13.00	-4.72	-55.20	Peak
4	590.66	-64.58	-63.42	-13.00	-1.16	-51.58	Peak
5	817.64	-63.19	-63.77	-13.00	0.58	-50.19	Peak
6	983.51	-61.74	-64.74	-13.00	3.00	-48.74	Peak
7 pp	1422.00	-47.32	-35.13	-13.00	-12.19	-34.32	Peak

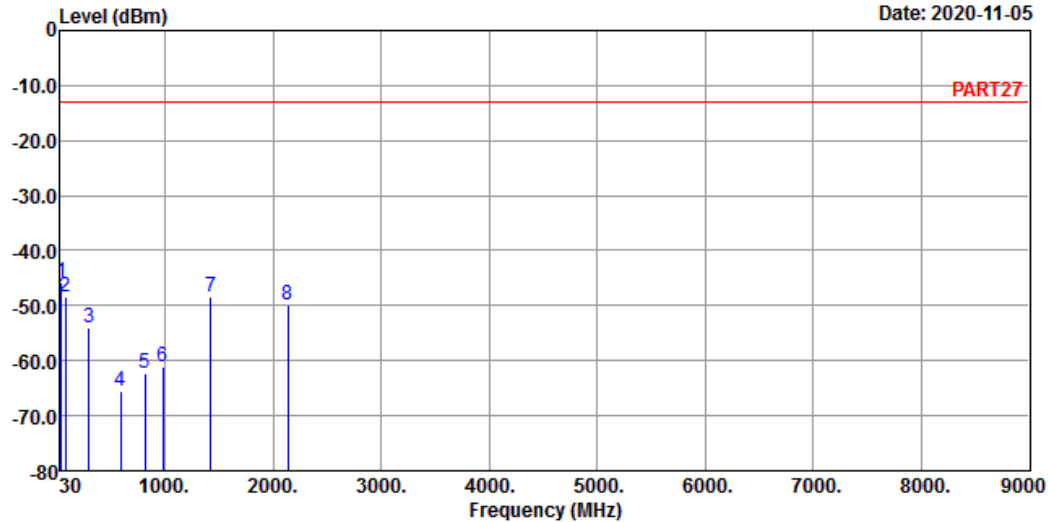


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2020-11-05



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : LTE Band 12 QPSK_10M Link_H-CH

Tested by: Cyril Chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	42.61	-45.78	-44.84	-13.00	-0.94	-32.78	Peak
2	78.50	-48.56	-38.13	-13.00	-10.43	-35.56	Peak
3	295.78	-53.97	-47.04	-13.00	-6.93	-40.97	Peak
4	589.69	-65.44	-64.24	-13.00	-1.20	-52.44	Peak
5	814.73	-62.16	-62.76	-13.00	0.60	-49.16	Peak
6	978.66	-61.07	-63.90	-13.00	2.83	-48.07	Peak
7	1422.00	-48.28	-36.09	-13.00	-12.19	-35.28	Peak
8	2133.00	-49.89	-40.22	-13.00	-9.67	-36.89	Peak

Mode C

WCDMA:

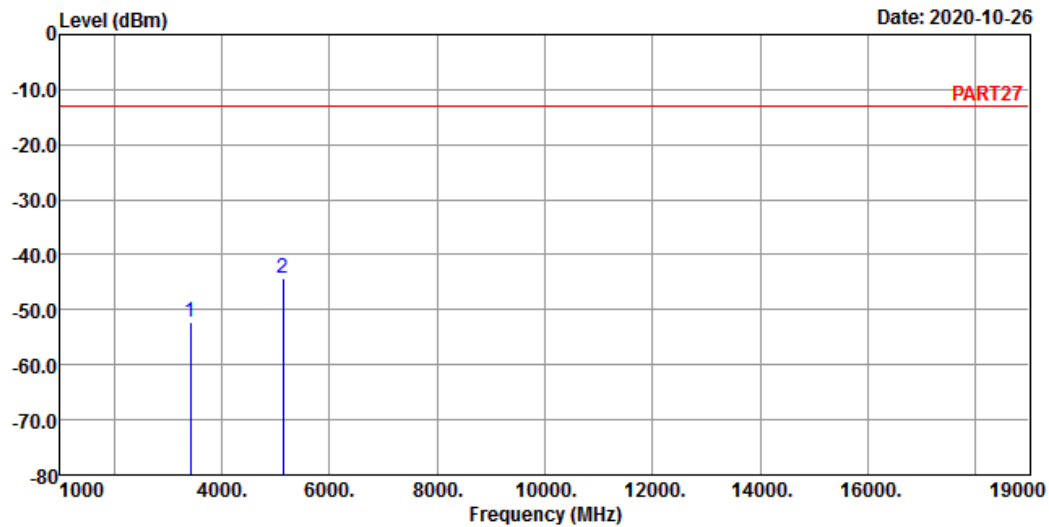
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5

Condition: PART27 HORIZONTAL

Remak : WCDMA Band 4 Link_L-CH

Tested by: tim-chen

	Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	3424.80	-52.31	-43.97	-13.00	-8.34	-39.31	Peak
2 pp	5137.20	-44.27	-42.53	-13.00	-1.74	-31.27	Peak

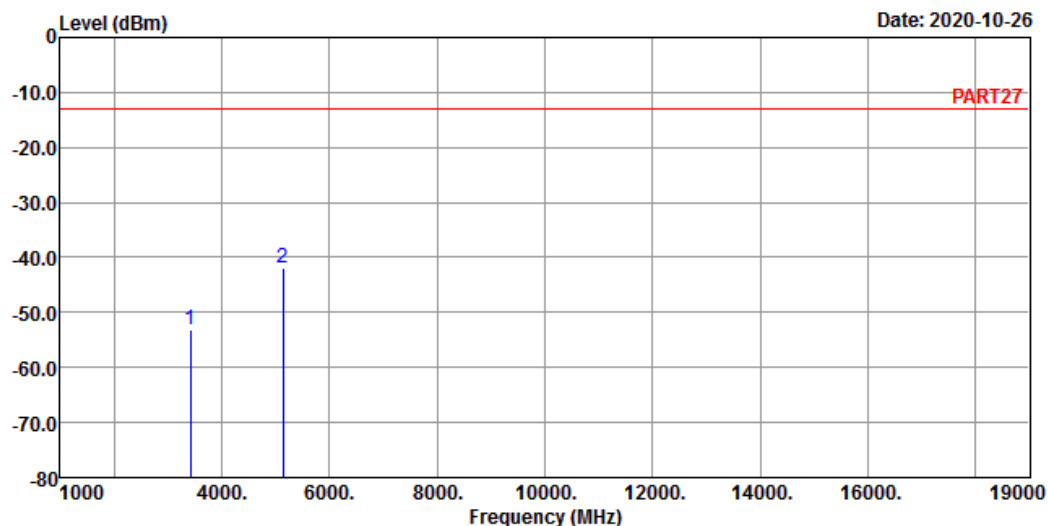


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 2020-10-26



Site : 966 Chamber 5
Condition: PART27 VERTICAL
Remak : WCDMA Band 4 Link_L-CH
Tested by: tim-chen

	Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	3424.80	-53.04	-44.70	-13.00	-8.34	-40.04	Peak
2 pp	5137.20	-41.84	-40.10	-13.00	-1.74	-28.84	Peak

Middle Channel

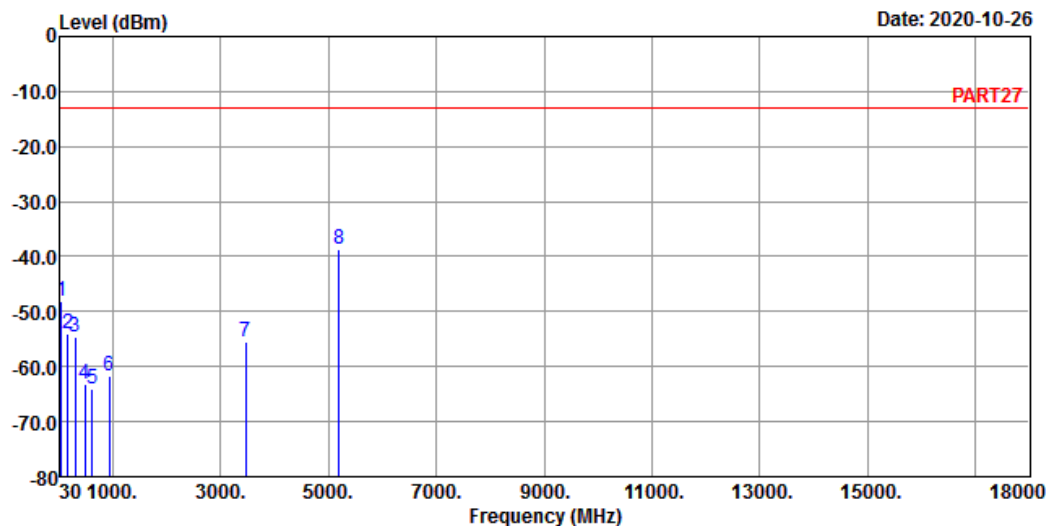


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 2020-10-26



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : WCDMA Band 4 Link_M-CH
Tested by: tim-chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	42.61	-48.03	-47.09	-13.00	-0.94	-35.03	Peak
2	163.86	-54.05	-48.93	-13.00	-5.12	-41.05	Peak
3	308.39	-54.52	-47.64	-13.00	-6.88	-41.52	Peak
4	490.75	-63.20	-58.41	-13.00	-4.79	-50.20	Peak
5	623.64	-63.95	-63.13	-13.00	-0.82	-50.95	Peak
6	931.13	-61.77	-63.11	-13.00	1.34	-48.77	Peak
7	3465.20	-55.60	-47.72	-13.00	-7.88	-42.60	Peak
8 pp	5197.80	-38.66	-36.59	-13.00	-2.07	-25.66	Peak

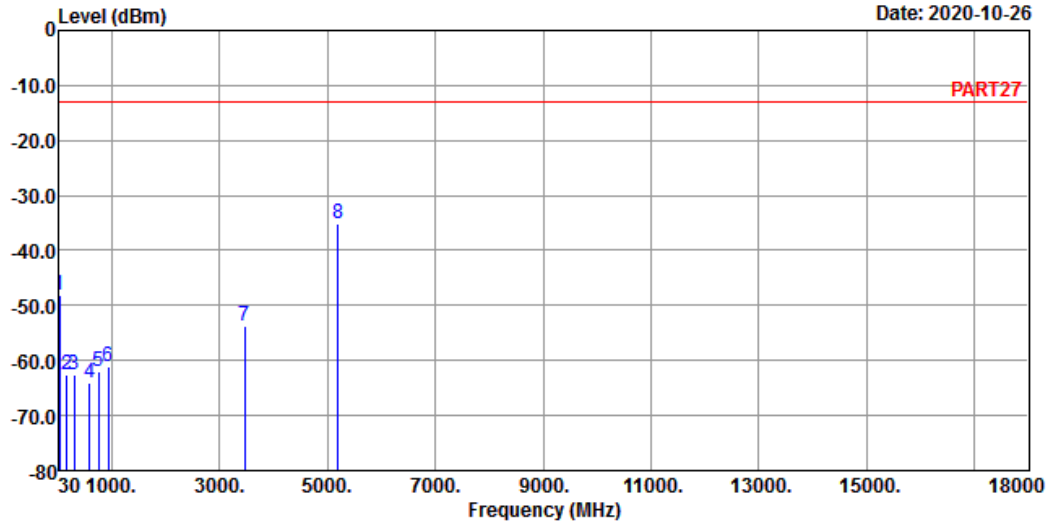


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2020-10-26



Site : 966 Chamber 5
Condition: PART27 VERTICAL
Remak : WCDMA Band 4 Link_M-CH
Tested by: tim-chen

	Freq	Level	Read Level	Limit	Over		
	MHz	dBm	dBm	dBm	Factor	Limit	Remark
1	34.85	-48.12	-46.05	-13.00	-2.07	-35.12	Peak
2	163.86	-62.66	-57.54	-13.00	-5.12	-49.66	Peak
3	312.27	-62.55	-55.73	-13.00	-6.82	-49.55	Peak
4	593.57	-63.94	-62.90	-13.00	-1.04	-50.94	Peak
5	764.29	-62.05	-62.89	-13.00	0.84	-49.05	Peak
6	941.80	-61.12	-62.73	-13.00	1.61	-48.12	Peak
7	3465.20	-53.61	-45.73	-13.00	-7.88	-40.61	Peak
8 pp	5197.80	-35.10	-33.03	-13.00	-2.07	-22.10	Peak

High Channel

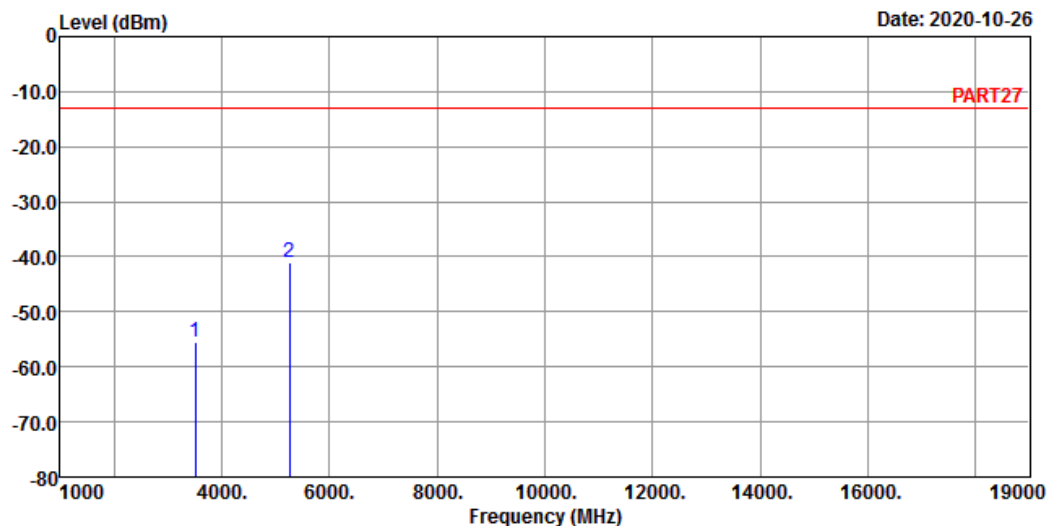


Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

A D T

Data: 3

Date: 2020-10-26



Site : 966 Chamber 5

Condition: PART27 HORIZONTAL

Remak : WCDMA Band 4 Link_H-CH

Tested by: tim-chen

			Read	Limit		Over	
	Freq	Level	Level	Line	Factor	Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	3505.20	-55.36	-47.91	-13.00	-7.45	-42.36	Peak
2 pp	5257.80	-40.97	-38.45	-13.00	-2.52	-27.97	Peak

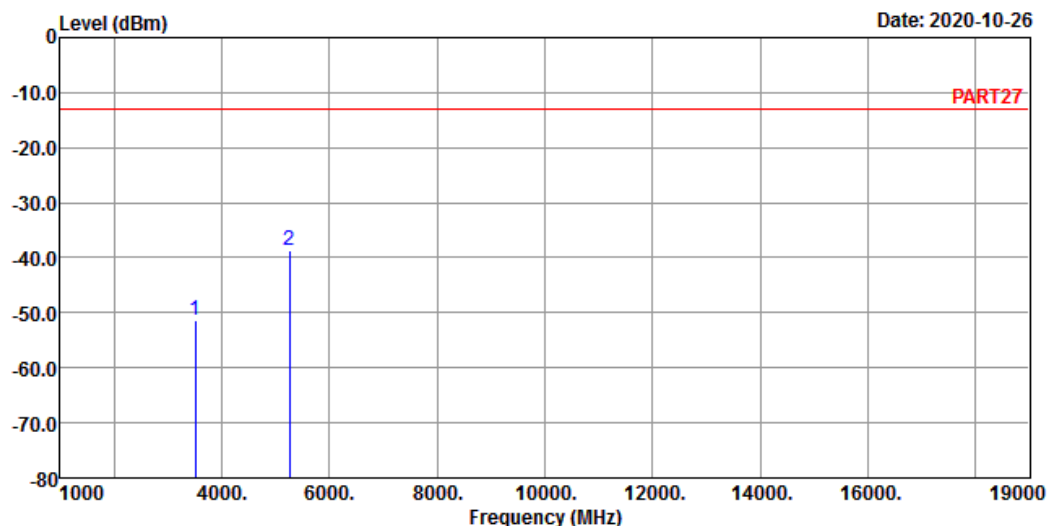


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 2020-10-26



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : WCDMA Band 4 Link_H-CH

Tested by: tim-chen

	Freq	Level	Read Level	Limit	Over	
	MHz	dBm	dBm	dBm	dB	Limit Remark
1	3505.20	-51.25	-43.80	-13.00	-7.45	-38.25 Peak
2 pp	5257.80	-38.59	-36.07	-13.00	-2.52	-25.59 Peak

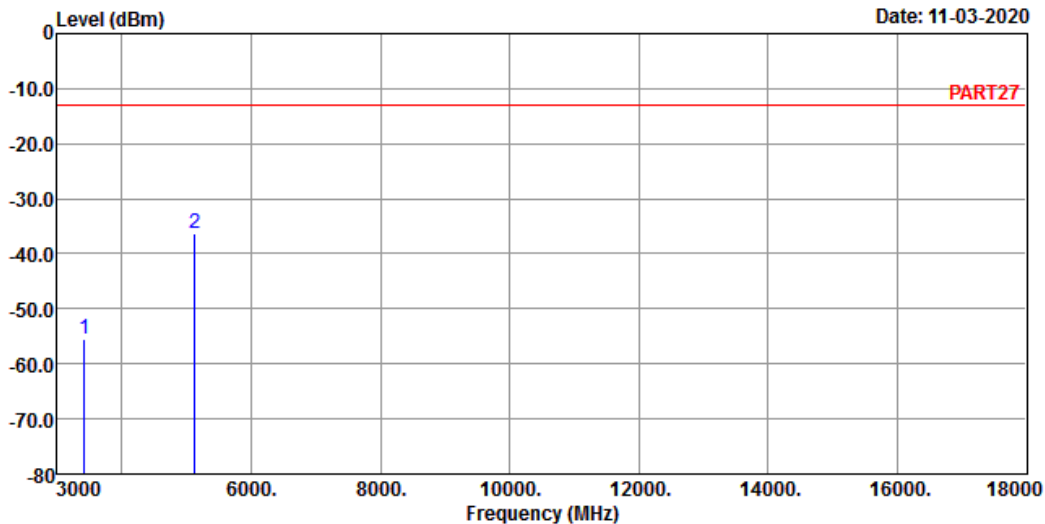
LTE Band 4
Channel Bandwidth: 1.4 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : LTE Band 4 QPSK_1.4M Link_L-CH
Tested by: Cyril Chen

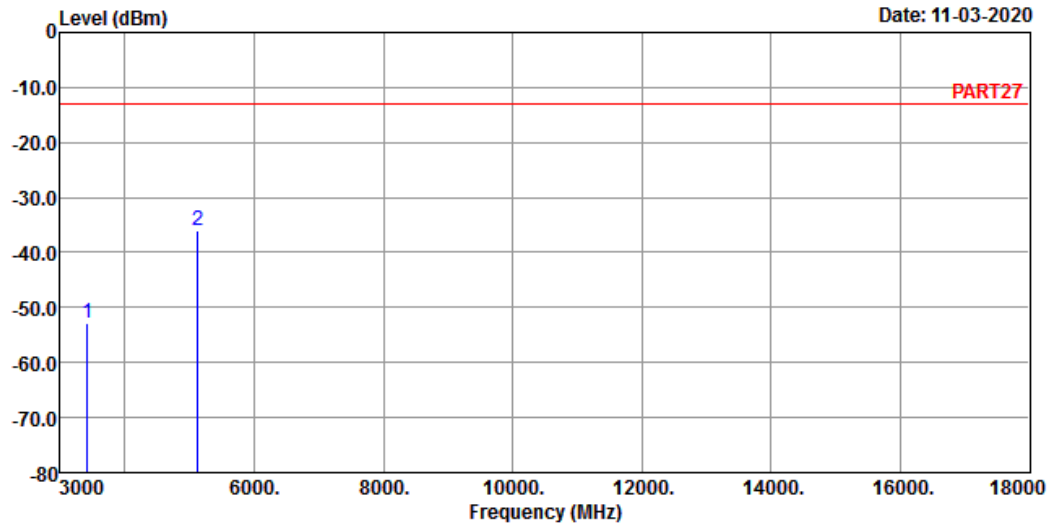
		Read	Limit		Over	
Freq	Level	Level	Line	Factor	Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1	3421.10	-55.37	-47.03	-13.00	-8.34	-42.37 Peak
2 pp	5132.10	-36.23	-34.49	-13.00	-1.74	-23.23 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : LTE Band 4 QPSK_1.4M Link_L-CH

Tested by: Cyril Chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	3421.40	-52.75	-44.41	-13.00	-8.34	-39.75	Peak
2 pp	5132.10	-35.98	-34.24	-13.00	-1.74	-22.98	Peak

Middle Channel

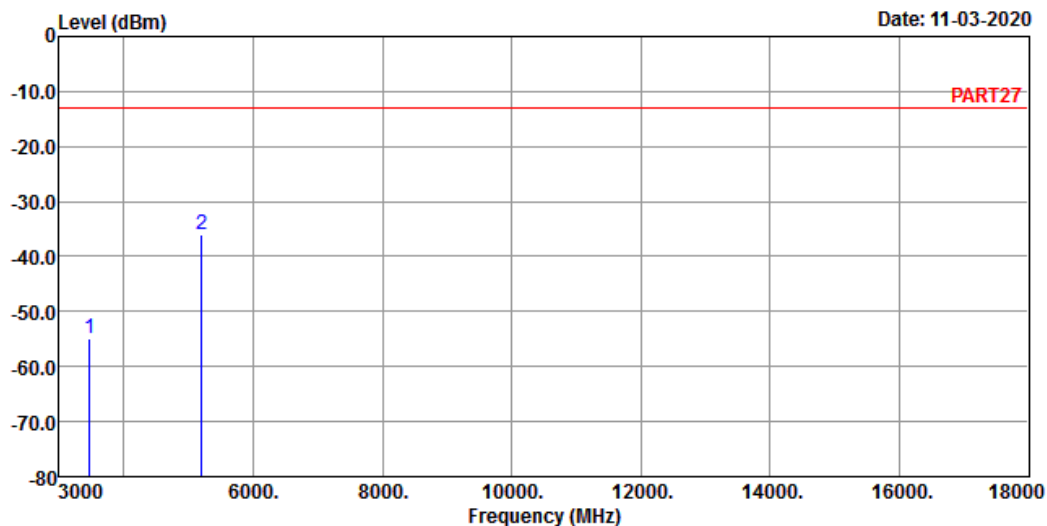


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3

Date: 11-03-2020



Site : 966 Chamber 5

Condition: PART27 HORIZONTAL

Remak : LTE Band 4 QPSK_1.4M Link_M-CH

Tested by: Cyril Chen

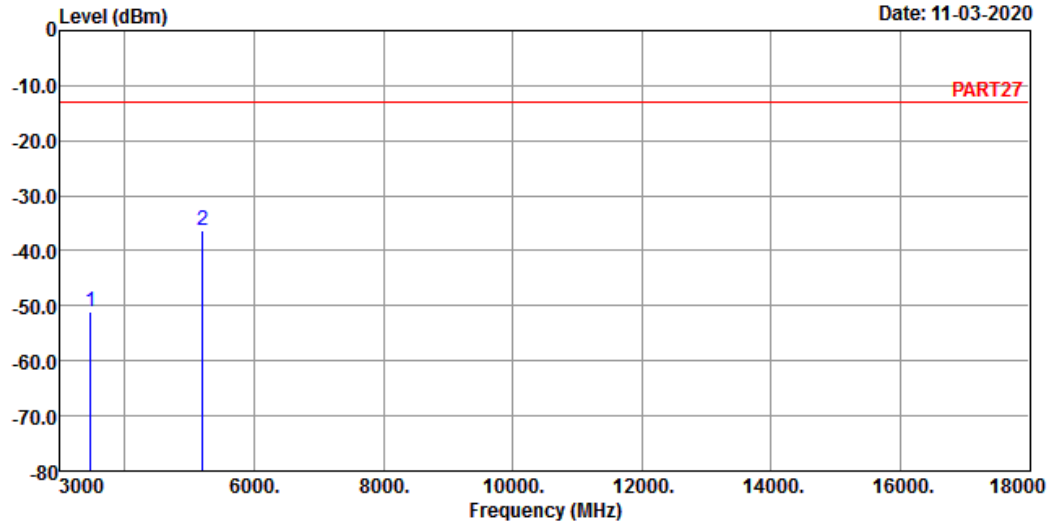
			Read	Limit		Over	
	Freq	Level	Level	Line	Factor	Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	3465.00	-54.92	-47.04	-13.00	-7.88	-41.92	Peak
2 pp	5197.50	-35.98	-33.91	-13.00	-2.07	-22.98	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : LTE Band 4 QPSK_1.4M Link_M-CH
 Tested by: Cyril Chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	3465.00	-50.94	-43.06	-13.00	-7.88	-37.94	Peak
2 pp	5197.50	-36.29	-34.22	-13.00	-2.07	-23.29	Peak

High Channel

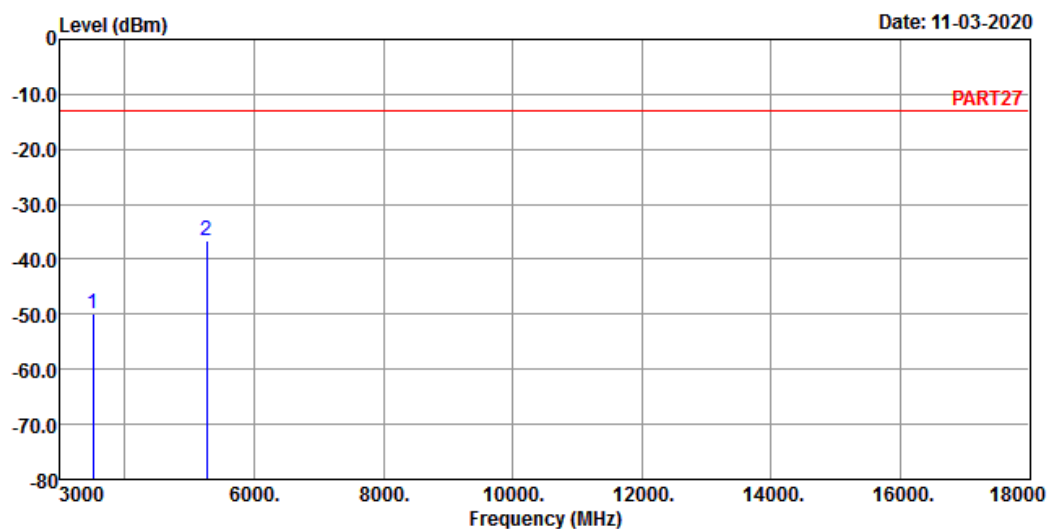


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3

Date: 11-03-2020



Site : 966 Chamber 5

Condition: PART27 HORIZONTAL

Remak : LTE Band 4 QPSK_1.4M Link_H-CH

Tested by: Cyril Chen

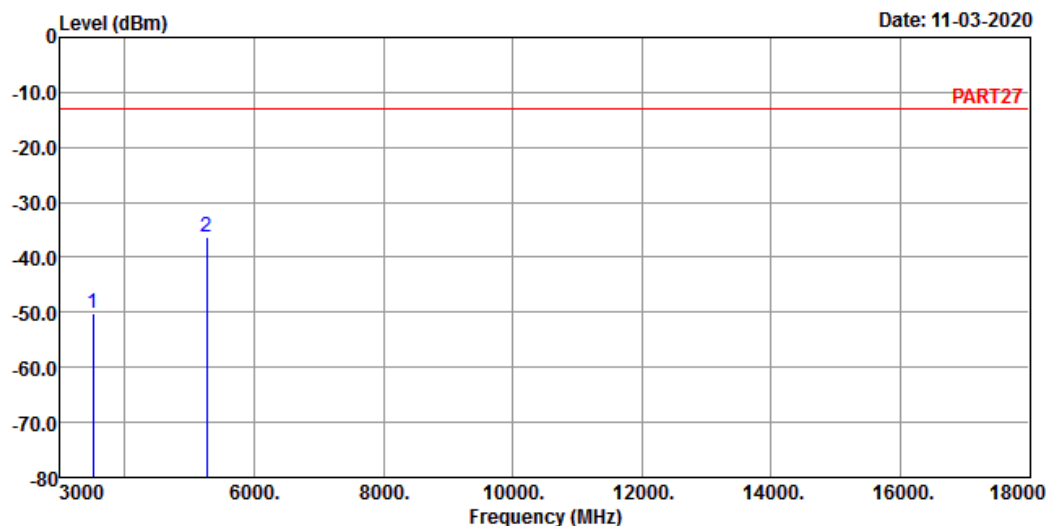
			Read	Limit		Over	
	Freq	Level	Level	Line	Factor	Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	3508.60	-49.76	-42.31	-13.00	-7.45	-36.76	Peak
2 pp	5262.90	-36.65	-34.13	-13.00	-2.52	-23.65	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : LTE Band 4 QPSK_1.4M Link_H-CH

Tested by: Cyril Chen

		Read	Limit		Over	
Freq	Level	Level	Line	Factor	Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1	3508.60	-50.11	-42.66	-13.00	-7.45	-37.11 Peak
2	5262.90	-36.45	-33.93	-13.00	-2.52	-23.45 Peak

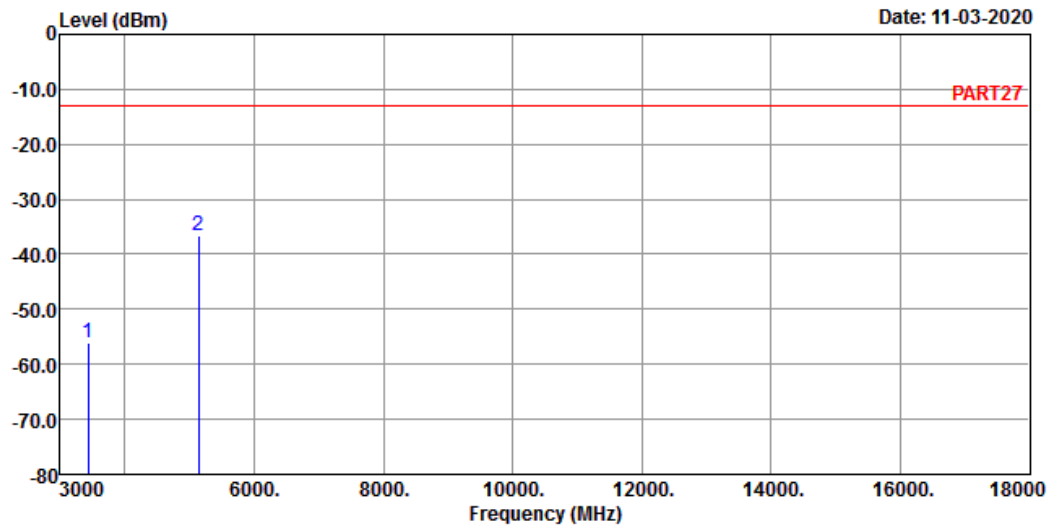
Channel Bandwidth: 5 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : LTE Band 4 QPSK_5M Link_L-CH
Tested by: Cyril Chen

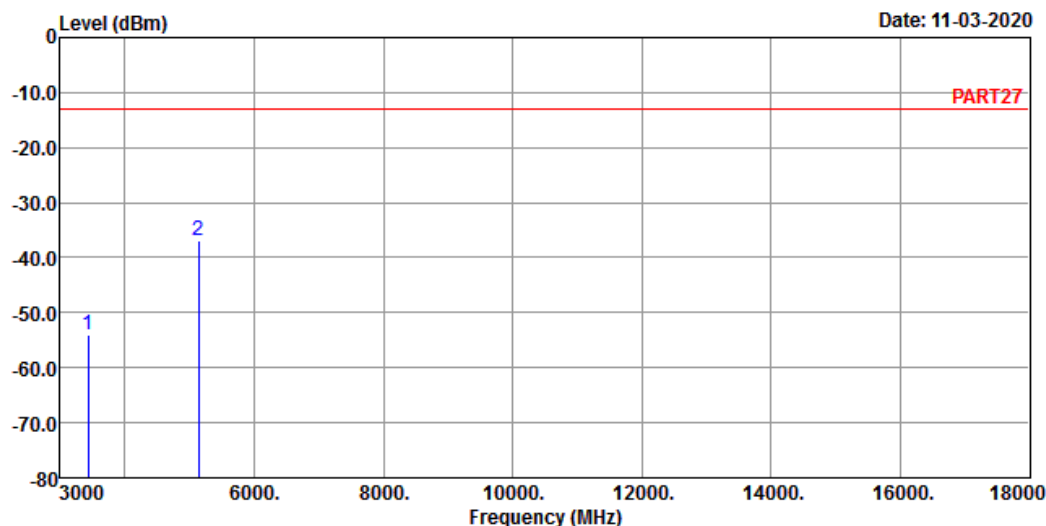
	Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	3425.00	-56.08	-47.74	-13.00	-8.34	-43.08	Peak
2 pp	5137.50	-36.55	-34.81	-13.00	-1.74	-23.55	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : LTE Band 4 QPSK_5M Link_L-CH

Tested by: Cyril Chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	3425.00	-54.16	-45.82	-13.00	-8.34	-41.16	Peak
2 pp	5137.50	-36.94	-35.20	-13.00	-1.74	-23.94	Peak

Middle Channel

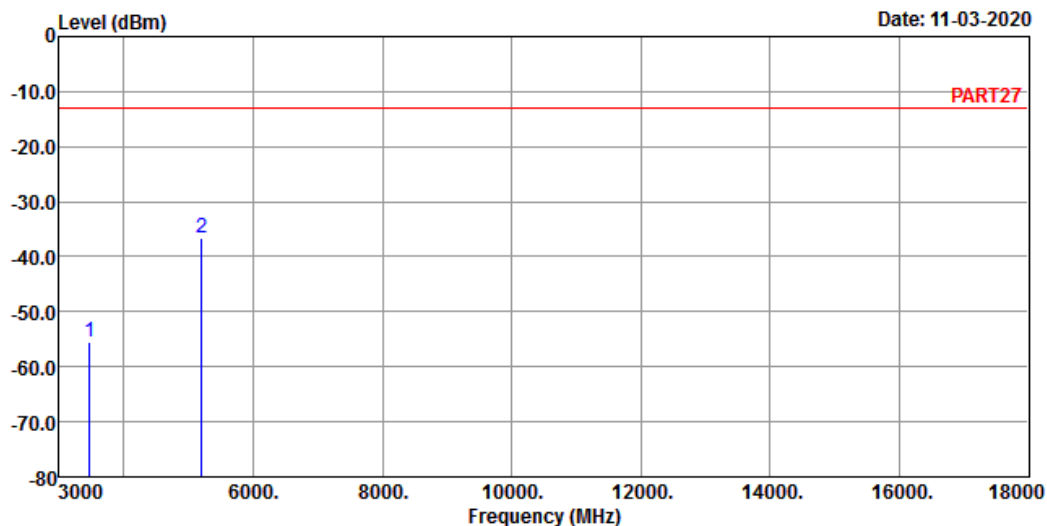


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3

Date: 11-03-2020



Site : 966 Chamber 5

Condition: PART27 HORIZONTAL

Remak : LTE Band 4 QPSK_5M Link_M-CH

Tested by: Cyril Chen

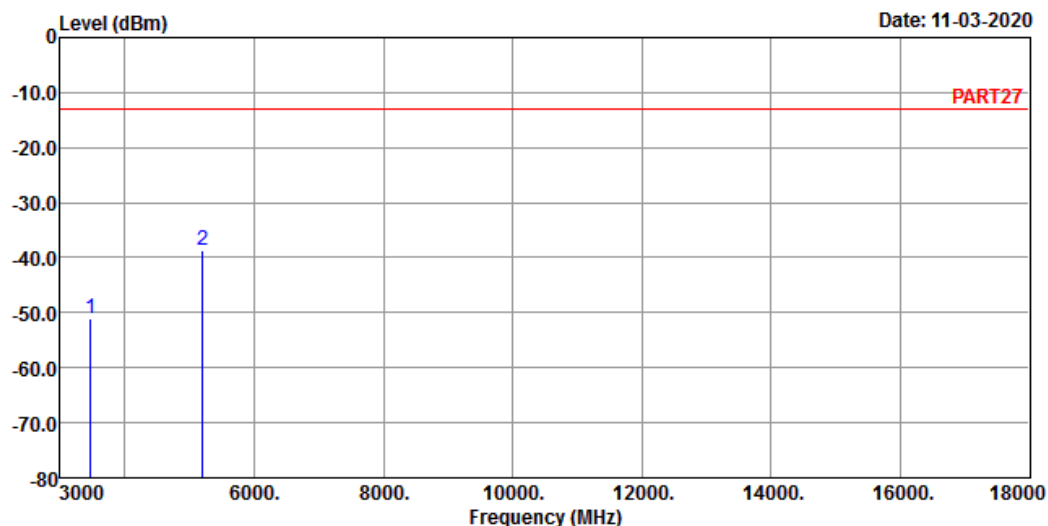
			Read	Limit		Over	
	Freq	Level	Level	Line	Factor	Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	3465.00	-55.40	-47.52	-13.00	-7.88	-42.40	Peak
2 pp	5197.50	-36.59	-34.52	-13.00	-2.07	-23.59	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : LTE Band 4 QPSK_5M Link_M-CH

Tested by: Cyril Chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	3465.00	-51.18	-43.30	-13.00	-7.88	-38.18	Peak
2 pp	5197.50	-38.68	-36.61	-13.00	-2.07	-25.68	Peak

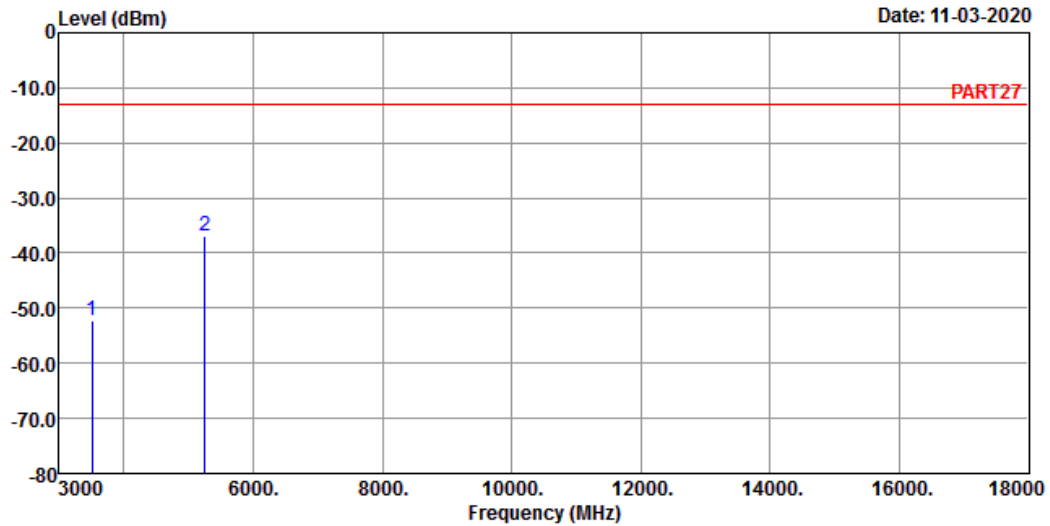
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5

Condition: PART27 HORIZONTAL

Remak : LTE Band 4 QPSK_5M Link_H-CH

Tested by: Cyril Chen

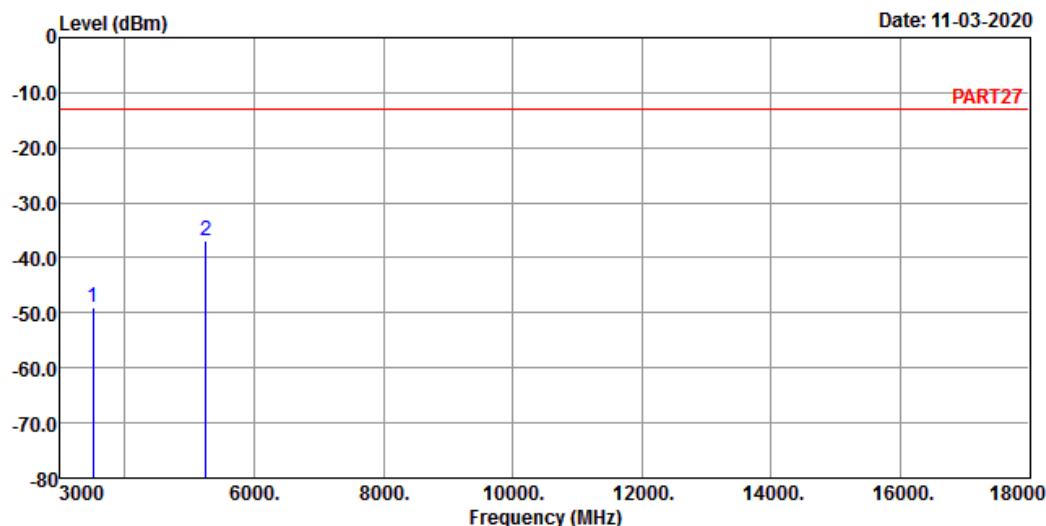
		Read	Limit	Over		
Freq	Level	Level	Line	Factor	Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1	3505.00	-52.16	-44.71	-13.00	-7.45	-39.16 Peak
2 pp	5257.50	-36.83	-34.31	-13.00	-2.52	-23.83 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : LTE Band 4 QPSK_5M Link_H-CH

Tested by: Cyril Chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	3505.00	-49.10	-41.65	-13.00	-7.45	-36.10	Peak
2 pp	5257.50	-36.92	-34.40	-13.00	-2.52	-23.92	Peak

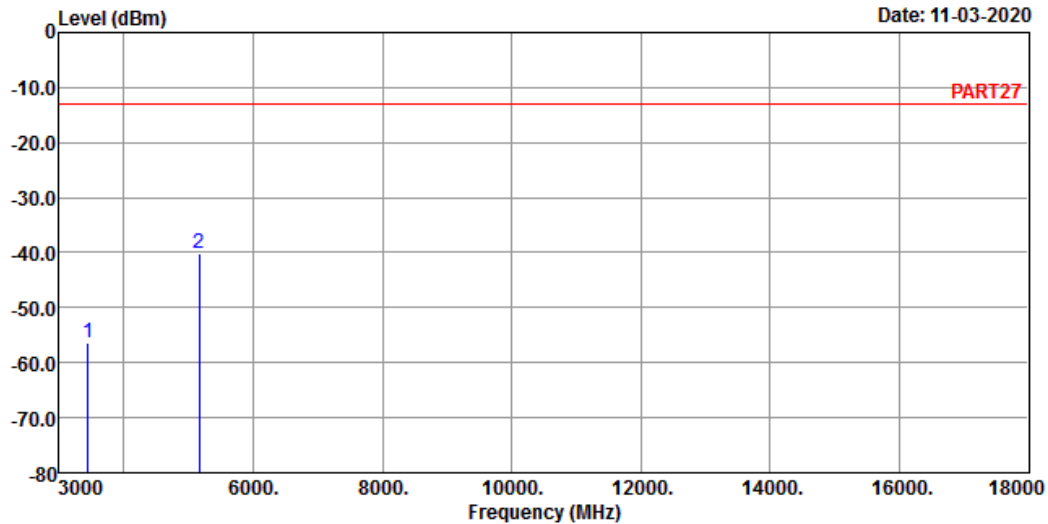
Channel Bandwidth: 20 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : LTE Band 4 QPSK_20M Link_L-CH
Tested by: Cyril Chen

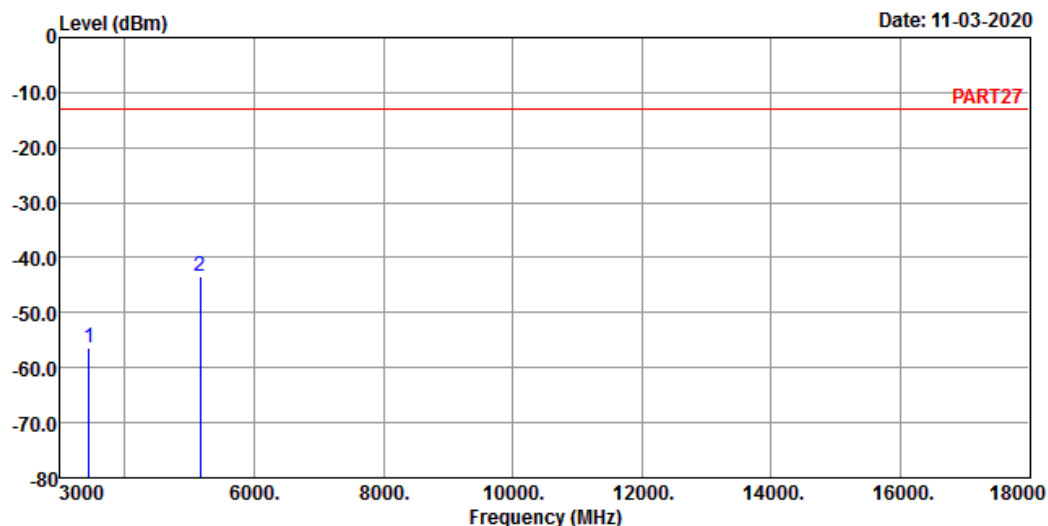
	Freq	Level	Read Level	Limit	Over	
	MHz	dBm	dBm	dBm	dB	Limit Remark
1	3440.00	-56.48	-48.26	-13.00	-8.22	-43.48 Peak
2 pp	5160.00	-40.05	-38.14	-13.00	-1.91	-27.05 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : LTE Band 4 QPSK_20M Link_L-CH

Tested by: Cyril Chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	3440.00	-56.29	-48.07	-13.00	-8.22	-43.29	Peak
2 pp	5160.00	-43.54	-41.63	-13.00	-1.91	-30.54	Peak

Middle Channel

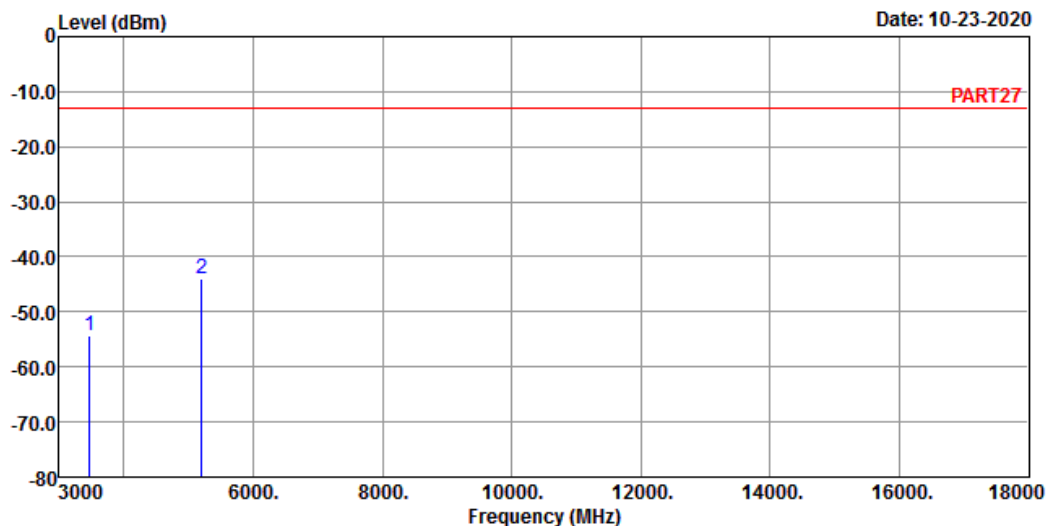


Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

A D T

Data: 3

Date: 10-23-2020



Site : 966 Chamber 5

Condition: PART27 HORIZONTAL

Remak : LTE Band 4 QPSK_20M Link_M-CH

Tested by: Cyril Chen

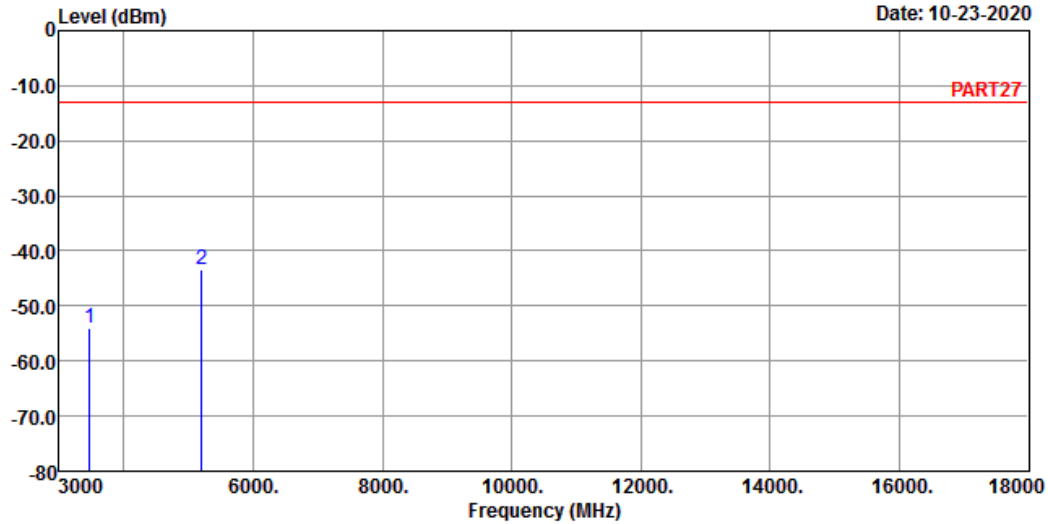
			Read	Limit		Over	
	Freq	Level	Level	Line	Factor	Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	3465.00	-54.41	-46.53	-13.00	-7.88	-41.41	Peak
2 pp	5197.50	-43.95	-41.88	-13.00	-2.07	-30.95	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5
Condition: PART27 VERTICAL
Remak : LTE Band 4 QPSK_20M Link_M-CH
Tested by: Cyril Chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	3465.00	-54.08	-46.20	-13.00	-7.88	-41.08	Peak
2 pp	5197.50	-43.43	-41.36	-13.00	-2.07	-30.43	Peak

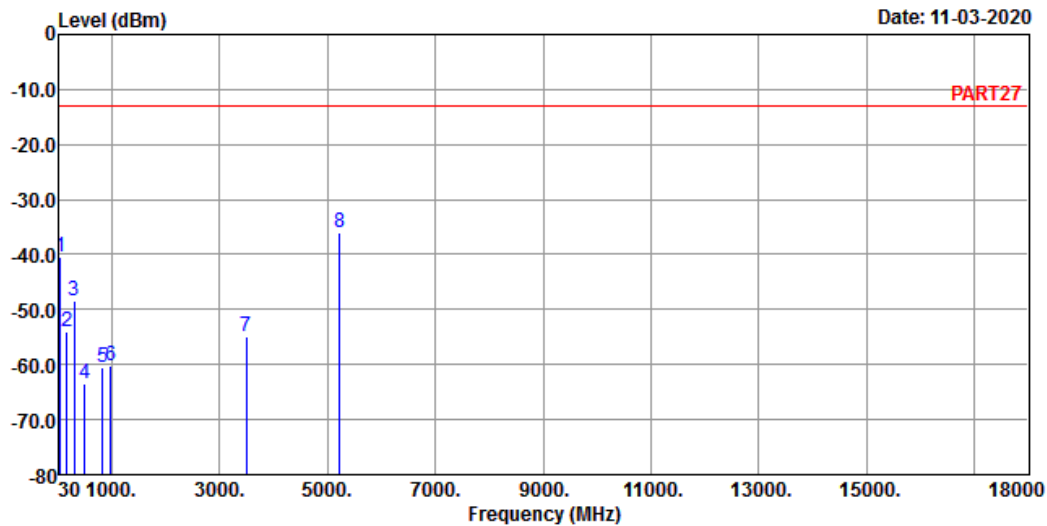
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 Chamber 5

Condition: PART27 HORIZONTAL

Remak : LTE Band 4 QPSK_20M Link_H-CH

Tested by: Cyril Chen

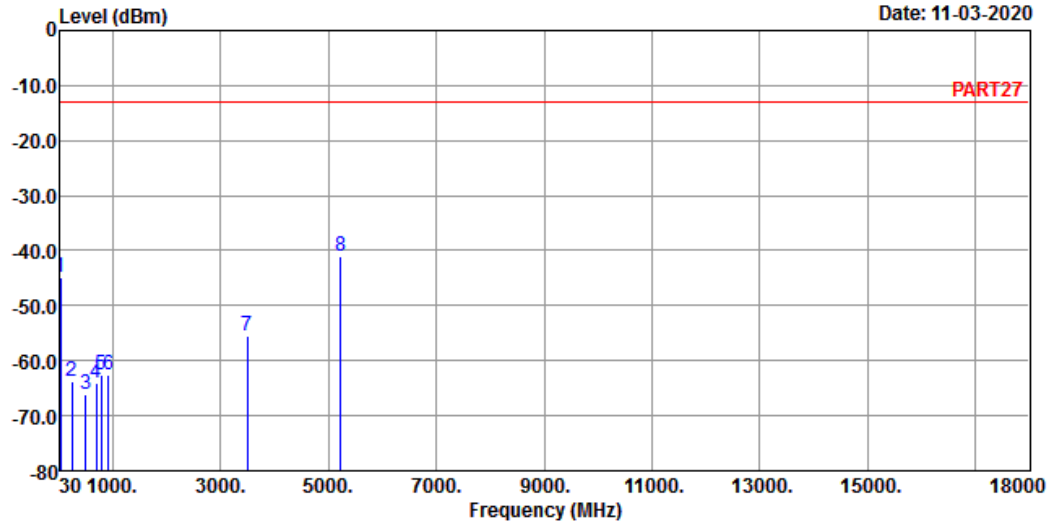
			Read	Limit		Over	
	Freq	Level	Level	Line	Factor	Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	42.61	-40.31	-39.37	-13.00	-0.94	-27.31	Peak
2	162.89	-53.89	-48.84	-13.00	-5.05	-40.89	Peak
3	303.54	-48.46	-41.51	-13.00	-6.95	-35.46	Peak
4	506.27	-63.35	-58.95	-13.00	-4.40	-50.35	Peak
5	835.10	-60.55	-60.97	-13.00	0.42	-47.55	Peak
6	989.33	-60.36	-63.56	-13.00	3.20	-47.36	Peak
7	3490.00	-54.99	-47.34	-13.00	-7.65	-41.99	Peak
8 pp	5235.00	-35.94	-33.53	-13.00	-2.41	-22.94	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6



Site : 966 Chamber 5
Condition: PART27 VERTICAL
Remak : LTE Band 4 QPSK_20M Link_H-CH
Tested by: Cyril Chen

	Freq	Level	Read Level	Limit	Over	
	MHz	dBm	dBm	dBm	Factor	Limit Remark
1	39.70	-44.95	-45.59	-13.00	0.64	-31.95 Peak
2	248.25	-63.79	-57.72	-13.00	-6.07	-50.79 Peak
3	495.60	-66.16	-61.46	-13.00	-4.70	-53.16 Peak
4	695.42	-64.14	-63.97	-13.00	-0.17	-51.14 Peak
5	791.45	-62.68	-63.44	-13.00	0.76	-49.68 Peak
6	927.25	-62.49	-63.74	-13.00	1.25	-49.49 Peak
7	3490.00	-55.44	-47.79	-13.00	-7.65	-42.44 Peak
8 pp	5235.00	-41.15	-38.74	-13.00	-2.41	-28.15 Peak

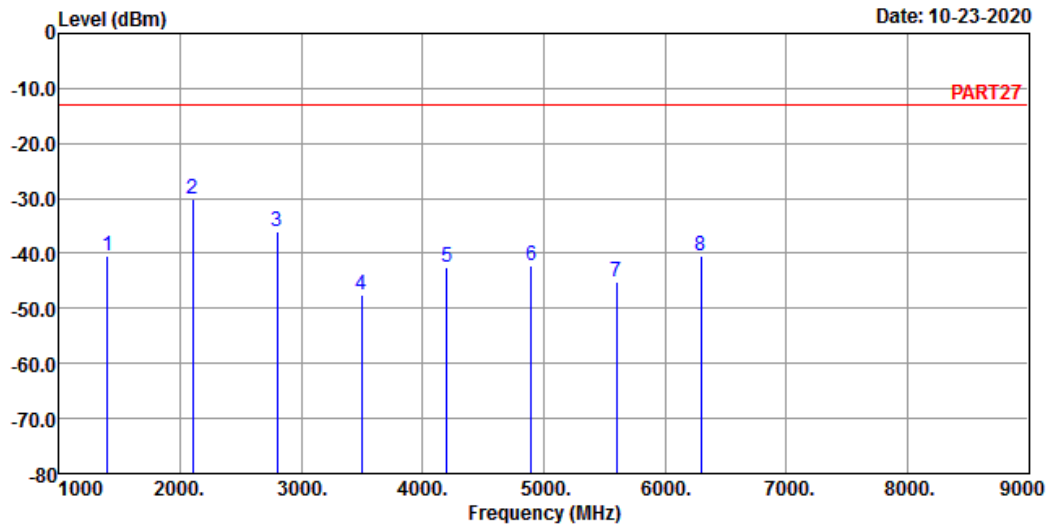
LTE Band 12
Channel Bandwidth: 1.4 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : LTE Band 12 QPSK_1.4M Link_L-CH
Tested by: Cyril Chen

	Freq	Level	Read Level	Limit	Over	
	MHz	dBm	dBm	dBm	Factor	Limit Remark
1	1399.40	-40.41	-28.56	-13.00	-11.85	-27.41 Peak
2 pp	2099.10	-30.17	-20.01	-13.00	-10.16	-17.17 Peak
3	2798.80	-36.13	-27.61	-13.00	-8.52	-23.13 Peak
4	3498.50	-47.40	-39.87	-13.00	-7.53	-34.40 Peak
5	4198.20	-42.52	-36.92	-13.00	-5.60	-29.52 Peak
6	4897.90	-42.23	-38.83	-13.00	-3.40	-29.23 Peak
7	5597.60	-45.20	-43.27	-13.00	-1.93	-32.20 Peak
8	6297.30	-40.44	-40.29	-13.00	-0.15	-27.44 Peak

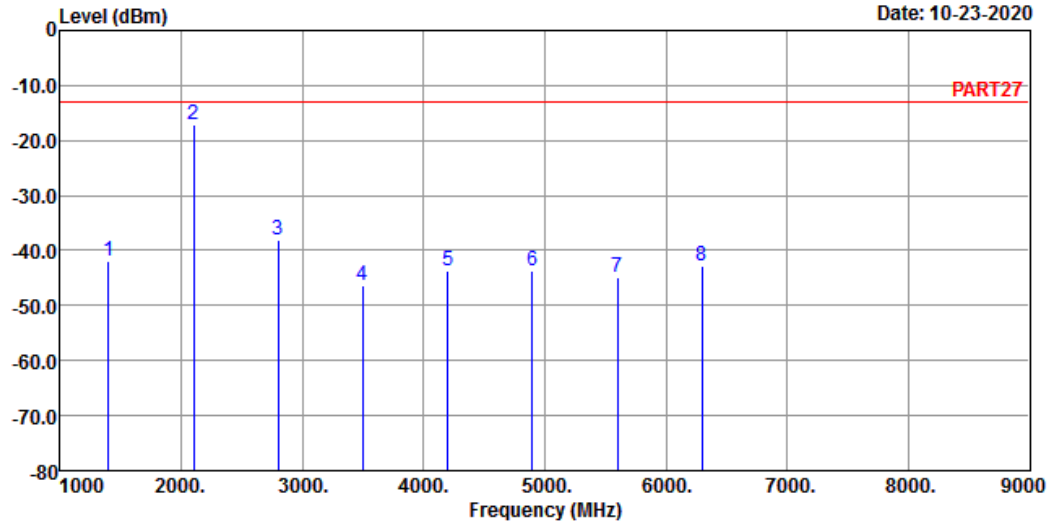


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 10-23-2020



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : LTE Band 12 QPSK_1.4M Link_L-CH

Tested by: Cyril Chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1399.40	-42.02	-30.17	-13.00	-11.85	-29.02	Peak
2 pp	2099.10	-17.24	-7.08	-13.00	-10.16	-4.24	Peak
3	2798.80	-38.01	-29.49	-13.00	-8.52	-25.01	Peak
4	3498.50	-46.20	-38.67	-13.00	-7.53	-33.20	Peak
5	4198.20	-43.72	-38.12	-13.00	-5.60	-30.72	Peak
6	4897.90	-43.55	-40.15	-13.00	-3.40	-30.55	Peak
7	5597.60	-44.83	-42.90	-13.00	-1.93	-31.83	Peak
8	6297.30	-42.88	-42.73	-13.00	-0.15	-29.88	Peak

Middle Channel

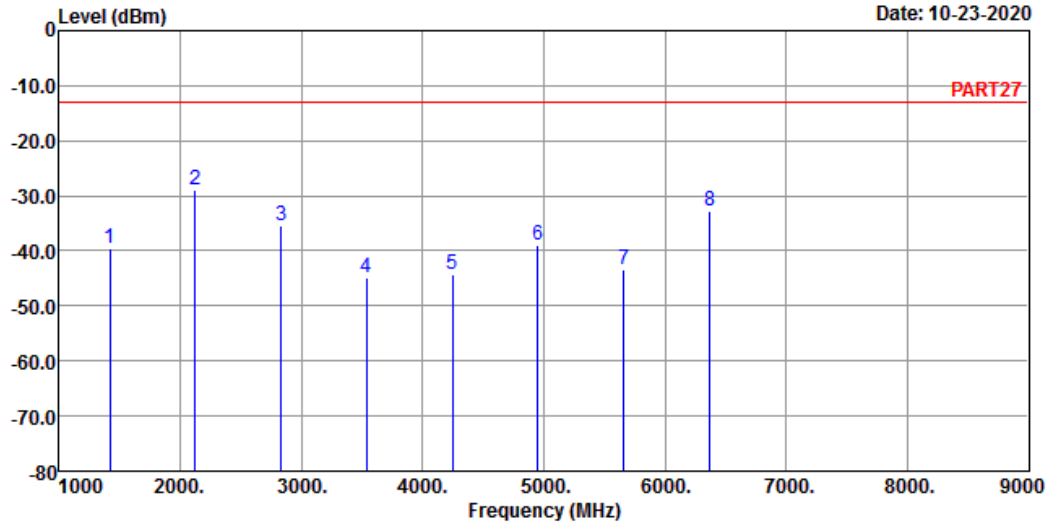


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3

Date: 10-23-2020



Site : 966 Chamber 5

Condition: PART27 HORIZONTAL

Remak : LTE Band 12 QPSK_1.4M Link_M-CH

Tested by: Cyril Chen

	Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1415.00	-39.61	-27.53	-13.00	-12.08	-26.61	Peak
2 pp	2122.50	-28.80	-18.93	-13.00	-9.87	-15.80	Peak
3	2830.00	-35.33	-26.85	-13.00	-8.48	-22.33	Peak
4	3537.50	-44.84	-37.62	-13.00	-7.22	-31.84	Peak
5	4245.00	-44.40	-38.87	-13.00	-5.53	-31.40	Peak
6	4952.50	-38.87	-35.92	-13.00	-2.95	-25.87	Peak
7	5660.00	-43.46	-41.66	-13.00	-1.80	-30.46	Peak
8	6367.50	-32.83	-33.41	-13.00	0.58	-19.83	Peak

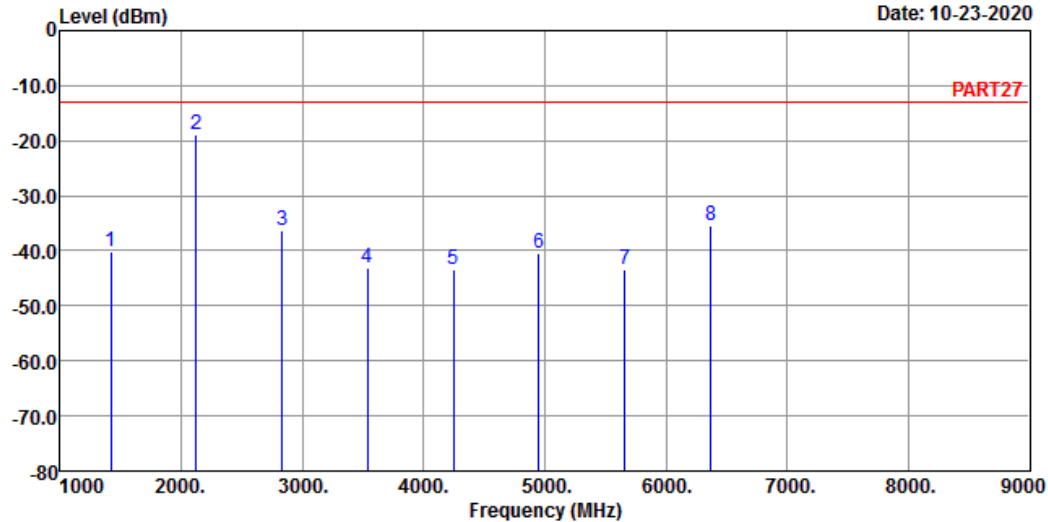


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 10-23-2020



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : LTE Band 12 QPSK_1.4M Link_M-CH

Tested by: Cyril Chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1415.00	-40.19	-28.11	-13.00	-12.08	-27.19	Peak
2 pp	2122.50	-18.98	-9.11	-13.00	-9.87	-5.98	Peak
3	2830.00	-36.29	-27.81	-13.00	-8.48	-23.29	Peak
4	3537.50	-43.24	-36.02	-13.00	-7.22	-30.24	Peak
5	4245.00	-43.32	-37.79	-13.00	-5.53	-30.32	Peak
6	4952.50	-40.56	-37.61	-13.00	-2.95	-27.56	Peak
7	5660.00	-43.33	-41.53	-13.00	-1.80	-30.33	Peak
8	6367.50	-35.35	-35.93	-13.00	0.58	-22.35	Peak

High Channel

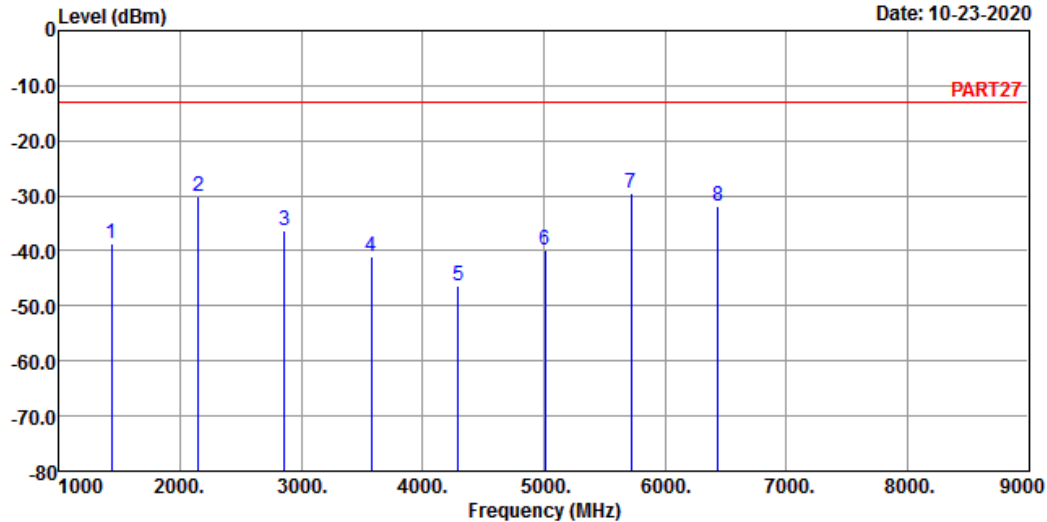


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3

Date: 10-23-2020



Site : 966 Chamber 5

Condition: PART27 HORIZONTAL

Remak : LTE Band 12 QPSK_1.4M Link_H-CH

Tested by: Cyril Chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1430.60	-38.66	-26.35	-13.00	-12.31	-25.66	Peak
2	2145.90	-30.24	-20.77	-13.00	-9.47	-17.24	Peak
3	2861.20	-36.24	-27.81	-13.00	-8.43	-23.24	Peak
4	3576.50	-41.05	-34.06	-13.00	-6.99	-28.05	Peak
5	4291.80	-46.39	-40.90	-13.00	-5.49	-33.39	Peak
6	5007.10	-39.83	-37.37	-13.00	-2.46	-26.83	Peak
7 pp	5722.40	-29.49	-27.80	-13.00	-1.69	-16.49	Peak
8	6437.70	-31.74	-32.71	-13.00	0.97	-18.74	Peak

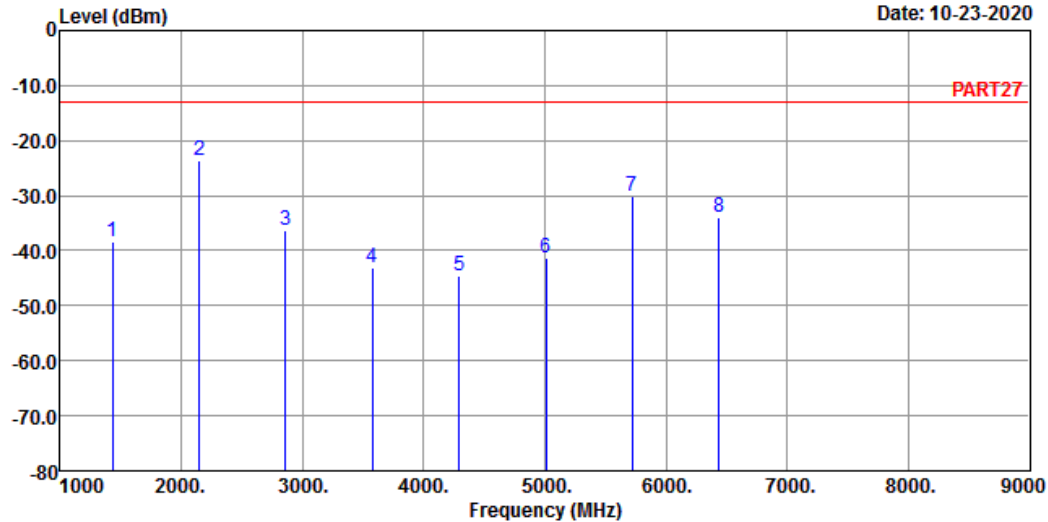


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 10-23-2020



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : LTE Band 12 QPSK_1.4M Link_H-CH

Tested by: Cyril Chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1430.60	-38.45	-26.14	-13.00	-12.31	-25.45	Peak
2 pp	2145.90	-23.63	-14.16	-13.00	-9.47	-10.63	Peak
3	2861.20	-36.33	-27.90	-13.00	-8.43	-23.33	Peak
4	3576.50	-43.14	-36.15	-13.00	-6.99	-30.14	Peak
5	4291.80	-44.60	-39.11	-13.00	-5.49	-31.60	Peak
6	5007.10	-41.26	-38.80	-13.00	-2.46	-28.26	Peak
7	5722.40	-30.00	-28.31	-13.00	-1.69	-17.00	Peak
8	6437.70	-33.99	-34.96	-13.00	0.97	-20.99	Peak

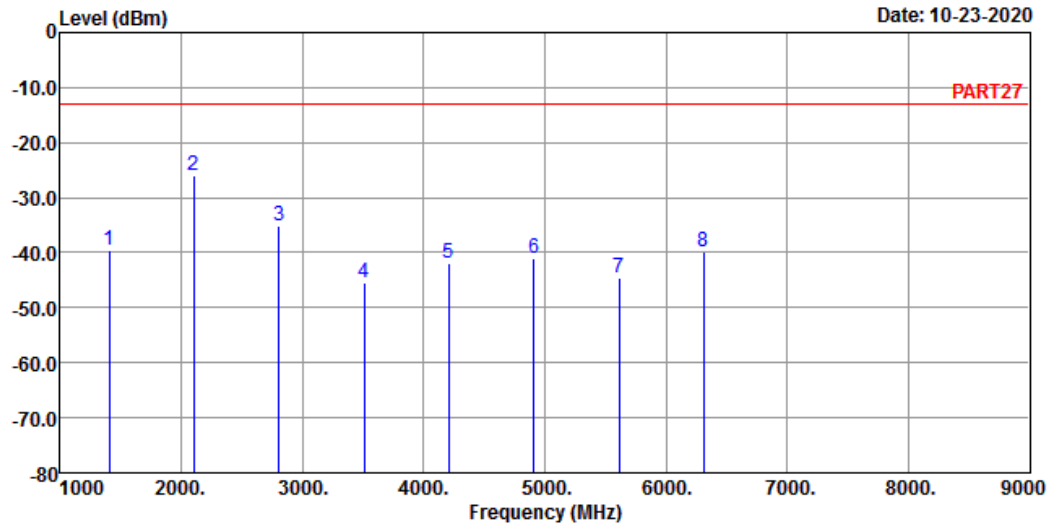
Channel Bandwidth: 5 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : LTE Band 12 QPSK_5M Link_L-CH
Tested by: Cyril Chen

	Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1403.00	-39.70	-27.79	-13.00	-11.91	-26.70	Peak
2 pp	2104.50	-25.91	-15.75	-13.00	-10.16	-12.91	Peak
3	2806.00	-35.16	-26.64	-13.00	-8.52	-22.16	Peak
4	3507.50	-45.56	-38.11	-13.00	-7.45	-32.56	Peak
5	4209.00	-42.01	-36.43	-13.00	-5.58	-29.01	Peak
6	4910.50	-41.08	-37.79	-13.00	-3.29	-28.08	Peak
7	5612.00	-44.51	-42.61	-13.00	-1.90	-31.51	Peak
8	6313.50	-39.86	-39.89	-13.00	0.03	-26.86	Peak

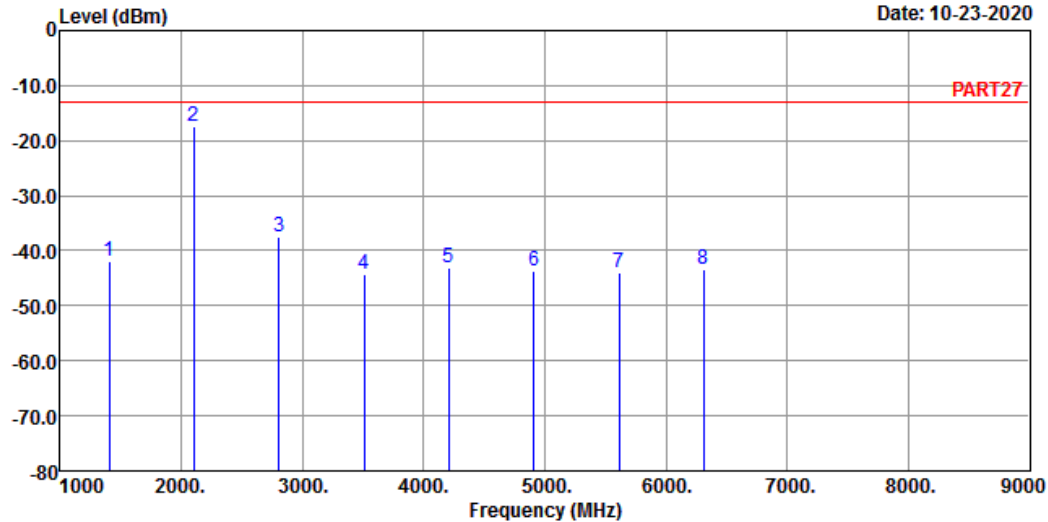


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 10-23-2020



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : LTE Band 12 QPSK_5M Link_L-CH

Tested by: Cyril Chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1403.00	-41.92	-30.01	-13.00	-11.91	-28.92	Peak
2 pp	2104.50	-17.37	-7.21	-13.00	-10.16	-4.37	Peak
3	2806.00	-37.56	-29.04	-13.00	-8.52	-24.56	Peak
4	3507.50	-44.14	-36.69	-13.00	-7.45	-31.14	Peak
5	4209.00	-42.96	-37.38	-13.00	-5.58	-29.96	Peak
6	4910.50	-43.66	-40.37	-13.00	-3.29	-30.66	Peak
7	5612.00	-43.96	-42.06	-13.00	-1.90	-30.96	Peak
8	6313.50	-43.49	-43.52	-13.00	0.03	-30.49	Peak

Middle Channel

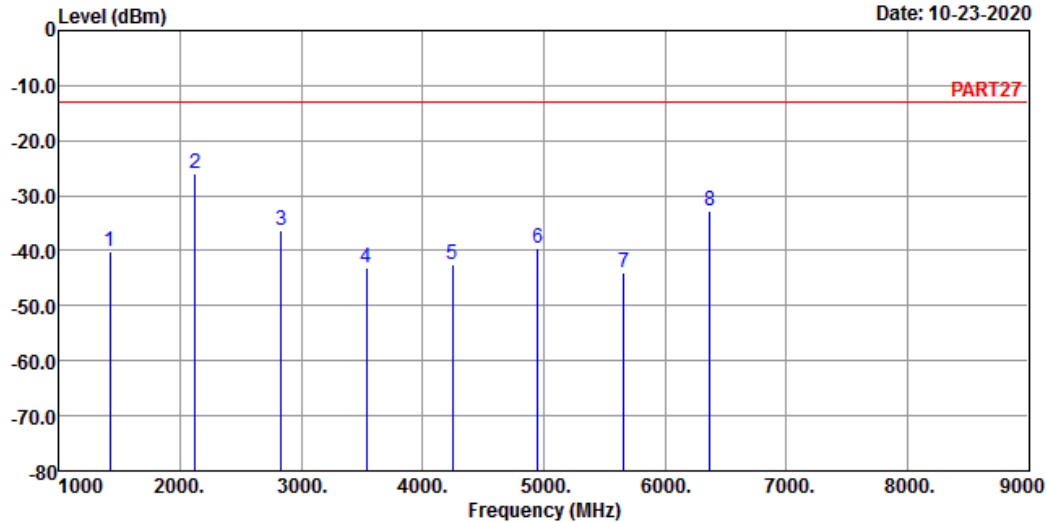


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3

Date: 10-23-2020



Site : 966 Chamber 5

Condition: PART27 HORIZONTAL

Remak : LTE Band 12 QPSK_5M Link_M-CH

Tested by: Cyril Chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1415.00	-40.27	-28.19	-13.00	-12.08	-27.27	Peak
2 pp	2122.50	-25.86	-15.99	-13.00	-9.87	-12.86	Peak
3	2830.00	-36.36	-27.88	-13.00	-8.48	-23.36	Peak
4	3537.50	-43.15	-35.93	-13.00	-7.22	-30.15	Peak
5	4245.00	-42.48	-36.95	-13.00	-5.53	-29.48	Peak
6	4952.50	-39.66	-36.71	-13.00	-2.95	-26.66	Peak
7	5660.00	-44.09	-42.29	-13.00	-1.80	-31.09	Peak
8	6367.50	-32.75	-33.33	-13.00	0.58	-19.75	Peak

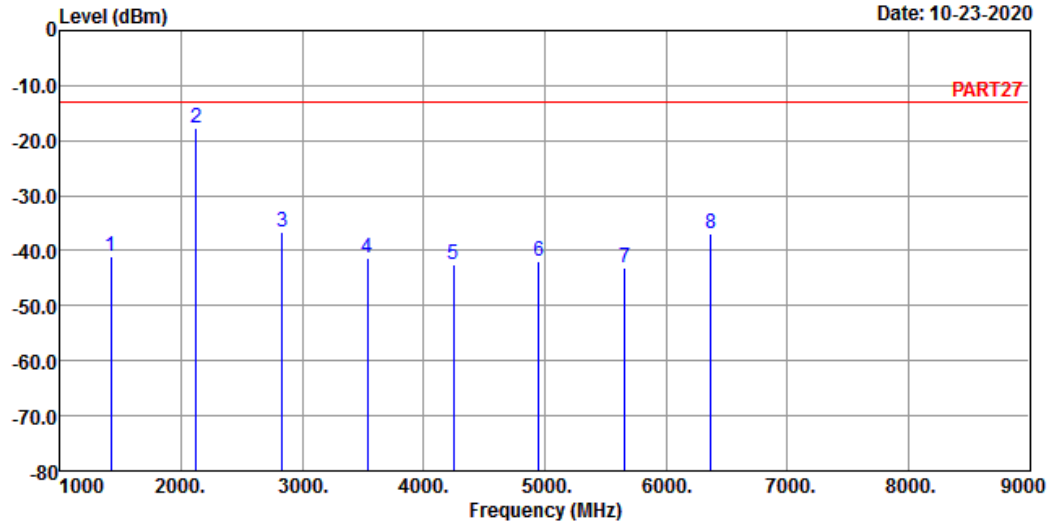


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 10-23-2020



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : LTE Band 12 QPSK_5M Link_M-CH

Tested by: Cyril Chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1415.00	-41.10	-29.02	-13.00	-12.08	-28.10	Peak
2 pp	2122.50	-17.59	-7.72	-13.00	-9.87	-4.59	Peak
3	2830.00	-36.72	-28.24	-13.00	-8.48	-23.72	Peak
4	3537.50	-41.35	-34.13	-13.00	-7.22	-28.35	Peak
5	4245.00	-42.59	-37.06	-13.00	-5.53	-29.59	Peak
6	4952.50	-41.92	-38.97	-13.00	-2.95	-28.92	Peak
7	5660.00	-43.04	-41.24	-13.00	-1.80	-30.04	Peak
8	6367.50	-37.01	-37.59	-13.00	0.58	-24.01	Peak

High Channel

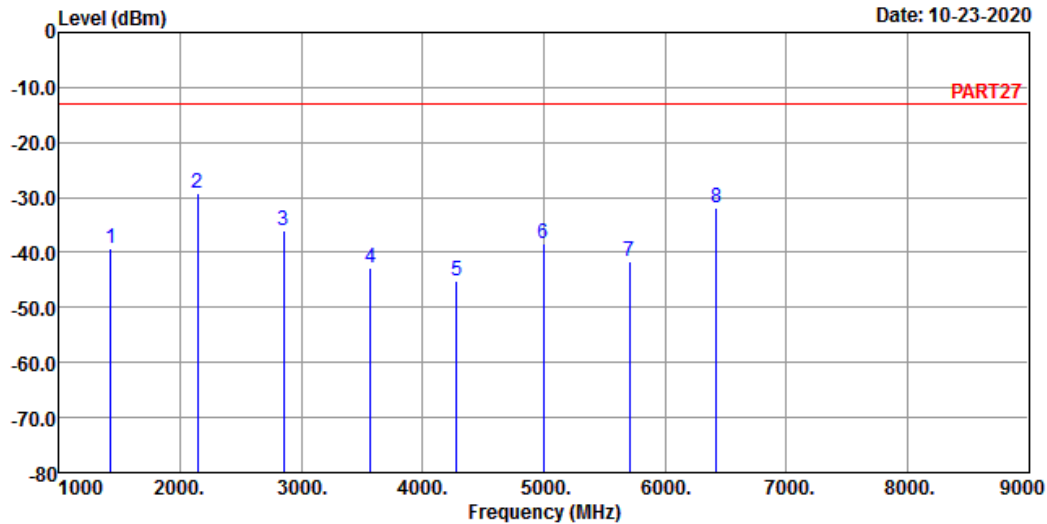


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3

Date: 10-23-2020



Site : 966 Chamber 5

Condition: PART27 HORIZONTAL

Remak : LTE Band 12 QPSK_5M Link_H-CH

Tested by: Cyril Chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1427.00	-39.29	-27.04	-13.00	-12.25	-26.29	Peak
2 pp	2140.50	-29.14	-19.57	-13.00	-9.57	-16.14	Peak
3	2854.00	-35.94	-27.50	-13.00	-8.44	-22.94	Peak
4	3567.50	-42.82	-35.83	-13.00	-6.99	-29.82	Peak
5	4281.00	-45.09	-39.59	-13.00	-5.50	-32.09	Peak
6	4994.50	-38.40	-35.79	-13.00	-2.61	-25.40	Peak
7	5708.00	-41.50	-39.77	-13.00	-1.73	-28.50	Peak
8	6421.50	-31.85	-32.81	-13.00	0.96	-18.85	Peak

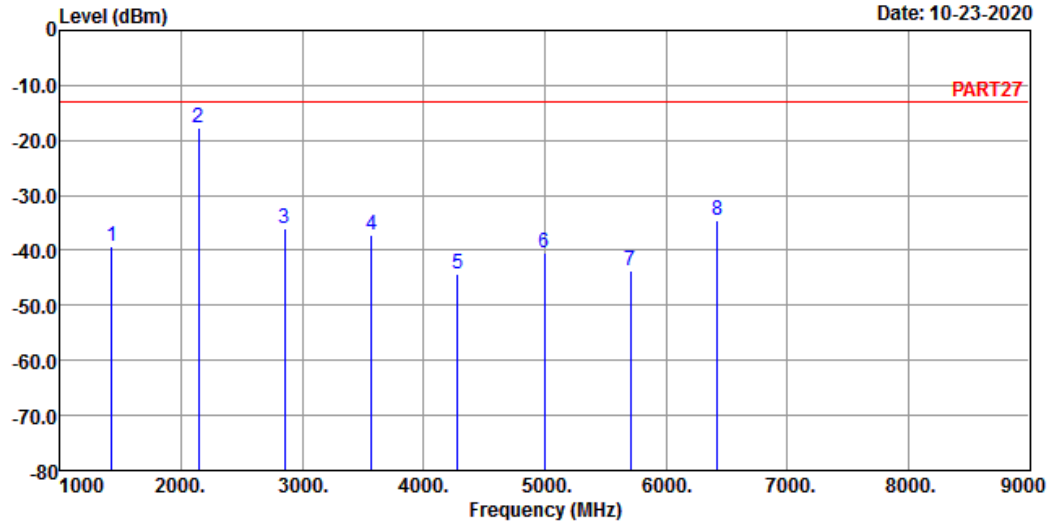


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 10-23-2020



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : LTE Band 12 QPSK_5M Link_H-CH

Tested by: Cyril Chen

	Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1427.00	-39.26	-27.01	-13.00	-12.25	-26.26	Peak
2 pp	2140.50	-17.81	-8.24	-13.00	-9.57	-4.81	Peak
3	2854.00	-36.15	-27.71	-13.00	-8.44	-23.15	Peak
4	3567.50	-37.23	-30.24	-13.00	-6.99	-24.23	Peak
5	4281.00	-44.35	-38.85	-13.00	-5.50	-31.35	Peak
6	4994.50	-40.38	-37.77	-13.00	-2.61	-27.38	Peak
7	5708.00	-43.60	-41.87	-13.00	-1.73	-30.60	Peak
8	6421.50	-34.64	-35.60	-13.00	0.96	-21.64	Peak

Channel Bandwidth: 10 MHz / QPSK
Low Channel

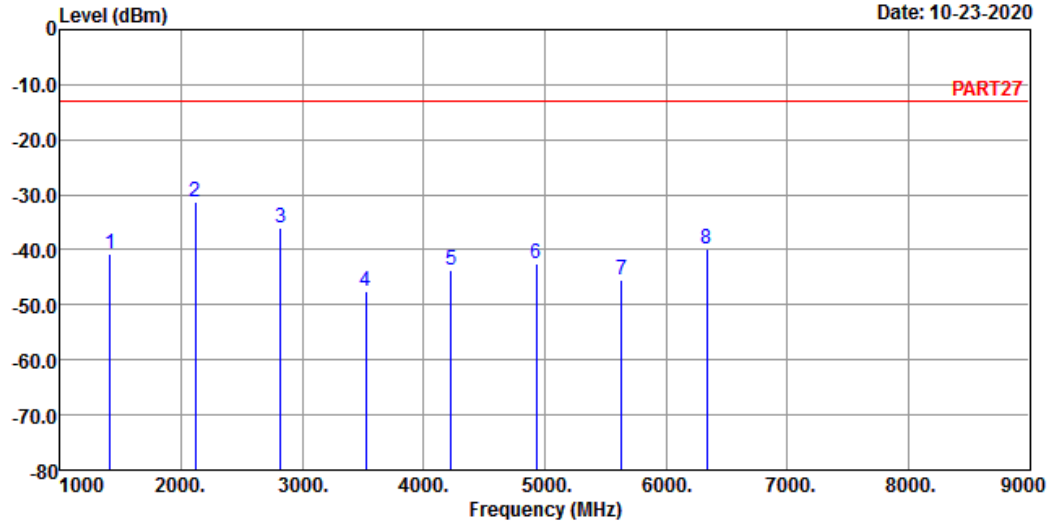


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3

Date: 10-23-2020



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : LTE Band 12 QPSK_10M Link_L-CH
Tested by: Cyril Chen

	Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1408.00	-40.71	-28.75	-13.00	-11.96	-27.71	Peak
2 pp	2112.00	-31.28	-21.32	-13.00	-9.96	-18.28	Peak
3	2816.00	-35.88	-27.39	-13.00	-8.49	-22.88	Peak
4	3520.00	-47.48	-40.10	-13.00	-7.38	-34.48	Peak
5	4224.00	-43.63	-38.06	-13.00	-5.57	-30.63	Peak
6	4928.00	-42.39	-39.22	-13.00	-3.17	-29.39	Peak
7	5632.00	-45.34	-43.48	-13.00	-1.86	-32.34	Peak
8	6336.00	-39.98	-40.20	-13.00	0.22	-26.98	Peak

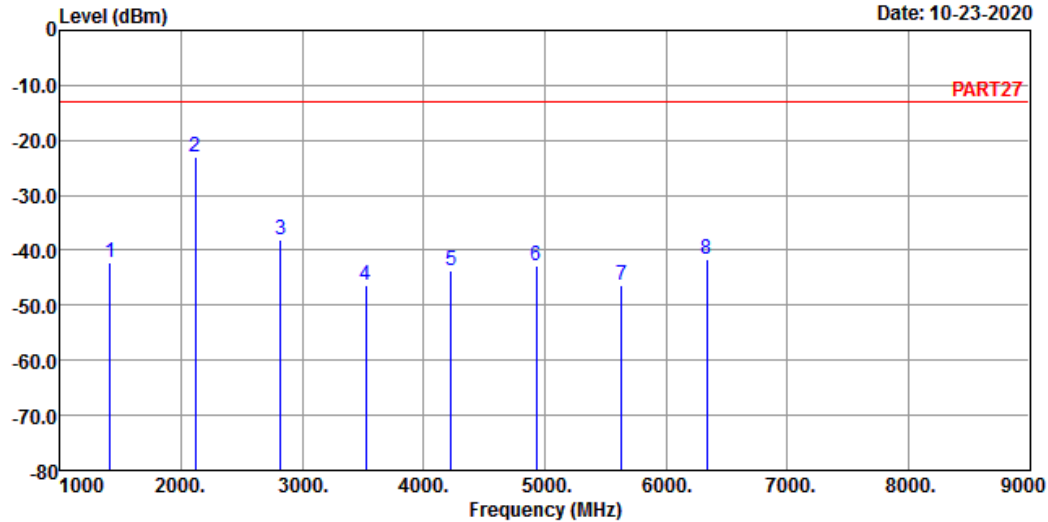


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 10-23-2020



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : LTE Band 12 QPSK_10M Link_L-CH

Tested by: Cyril Chen

	Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1408.00	-42.32	-30.36	-13.00	-11.96	-29.32	Peak
2 pp	2112.00	-22.97	-13.01	-13.00	-9.96	-9.97	Peak
3	2816.00	-38.10	-29.61	-13.00	-8.49	-25.10	Peak
4	3520.00	-46.47	-39.09	-13.00	-7.38	-33.47	Peak
5	4224.00	-43.66	-38.09	-13.00	-5.57	-30.66	Peak
6	4928.00	-42.72	-39.55	-13.00	-3.17	-29.72	Peak
7	5632.00	-46.34	-44.48	-13.00	-1.86	-33.34	Peak
8	6336.00	-41.56	-41.78	-13.00	0.22	-28.56	Peak

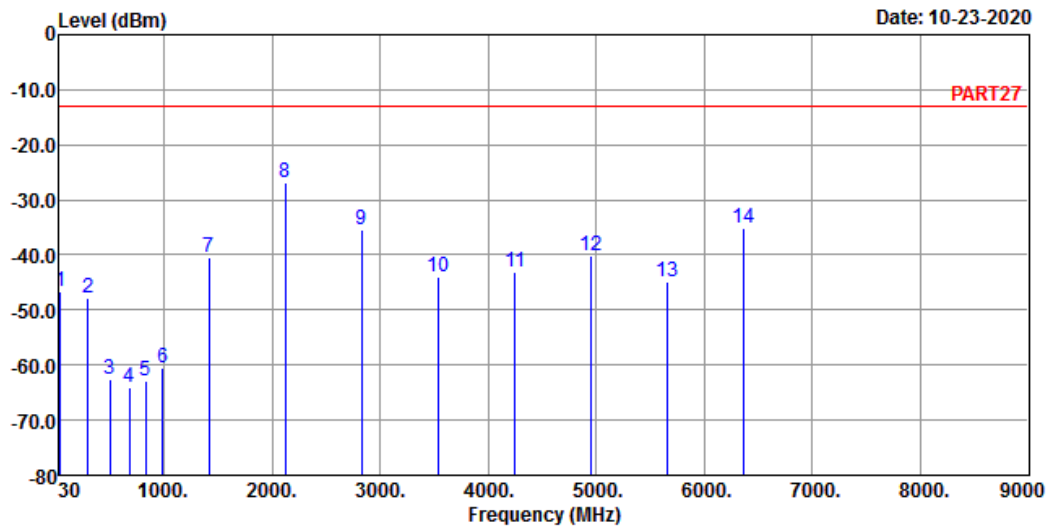
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : LTE Band 12 QPSK_10M Link_M-CH
 Tested by: Cyril Chen

	Freq	Level	Read Level	Limit	Over	
	MHz	dBm	dBm	dBm	Line Factor	Limit Remark
					dB	dB
1	42.61	-46.60	-45.66	-13.00	-0.94	-33.60 Peak
2	298.69	-47.82	-40.83	-13.00	-6.99	-34.82 Peak
3	494.63	-62.70	-57.98	-13.00	-4.72	-49.70 Peak
4	678.93	-64.04	-63.61	-13.00	-0.43	-51.04 Peak
5	829.28	-62.75	-63.22	-13.00	0.47	-49.75 Peak
6	983.51	-60.55	-63.55	-13.00	3.00	-47.55 Peak
7	1415.00	-40.35	-28.27	-13.00	-12.08	-27.35 Peak
8 pp	2122.50	-26.96	-17.09	-13.00	-9.87	-13.96 Peak
9	2830.00	-35.41	-26.93	-13.00	-8.48	-22.41 Peak
10	3537.50	-43.99	-36.77	-13.00	-7.22	-30.99 Peak
11	4245.00	-42.98	-37.45	-13.00	-5.53	-29.98 Peak
12	4952.50	-40.07	-37.12	-13.00	-2.95	-27.07 Peak
13	5660.00	-44.96	-43.16	-13.00	-1.80	-31.96 Peak
14	6367.50	-35.12	-35.70	-13.00	0.58	-22.12 Peak

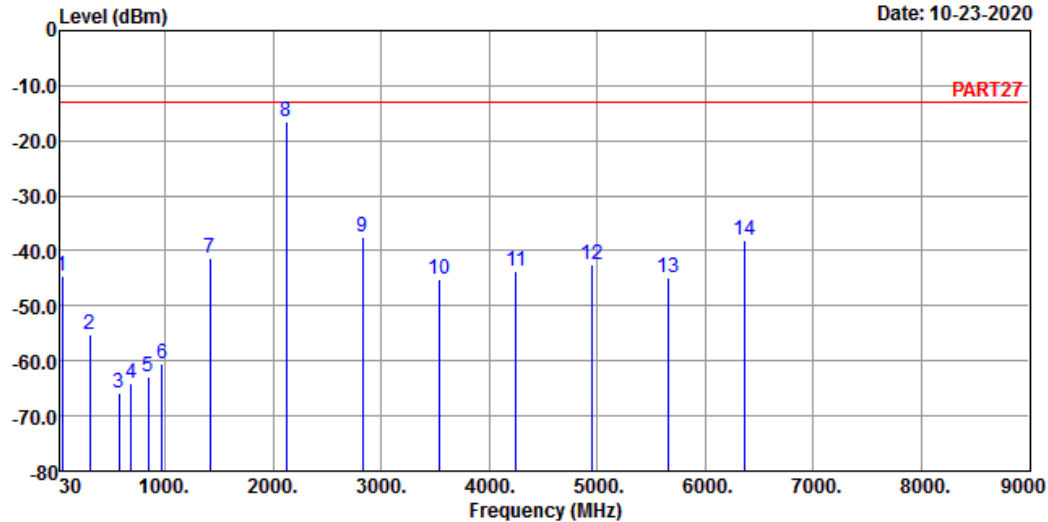


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 10-23-2020



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : LTE Band 12 QPSK_10M Link_M-CH

Tested by: Cyril Chen

	Freq	Level	Read Level	Limit	Over		
	MHz	dBm	dBm	dBm	Factor	Limit	Remark
1	43.58	-44.51	-43.04	-13.00	-1.47	-31.51	Peak
2	303.54	-55.08	-48.13	-13.00	-6.95	-42.08	Peak
3	570.29	-65.95	-63.95	-13.00	-2.00	-52.95	Peak
4	687.66	-64.06	-63.76	-13.00	-0.30	-51.06	Peak
5	840.92	-62.75	-63.12	-13.00	0.37	-49.75	Peak
6	974.78	-60.46	-63.15	-13.00	2.69	-47.46	Peak
7	1415.00	-41.34	-29.26	-13.00	-12.08	-28.34	Peak
8 pp	2122.50	-16.63	-6.76	-13.00	-9.87	-3.63	Peak
9	2830.00	-37.62	-29.14	-13.00	-8.48	-24.62	Peak
10	3537.50	-45.12	-37.90	-13.00	-7.22	-32.12	Peak
11	4245.00	-43.73	-38.20	-13.00	-5.53	-30.73	Peak
12	4952.50	-42.40	-39.45	-13.00	-2.95	-29.40	Peak
13	5660.00	-44.95	-43.15	-13.00	-1.80	-31.95	Peak
14	6367.50	-38.07	-38.65	-13.00	0.58	-25.07	Peak

High Channel

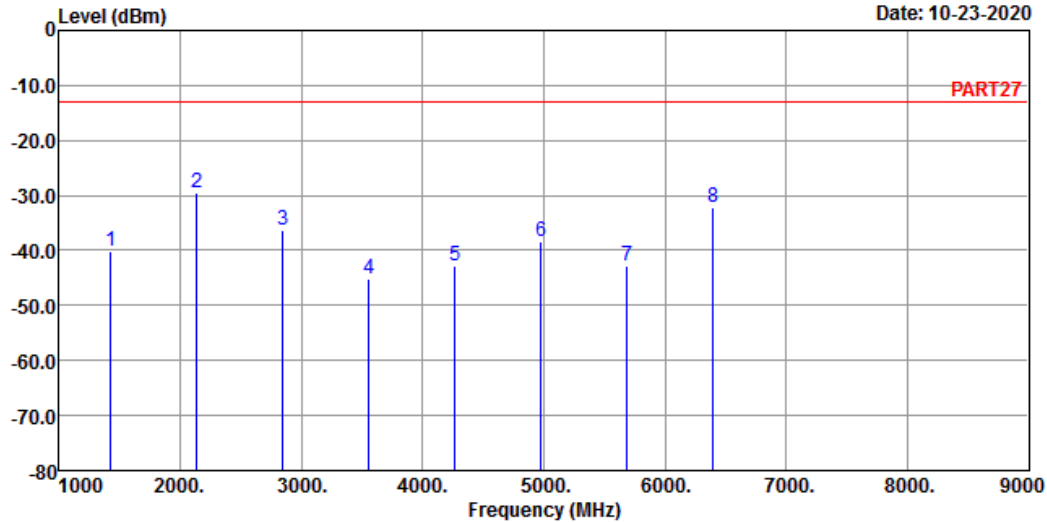


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3

Date: 10-23-2020



Site : 966 Chamber 5

Condition: PART27 HORIZONTAL

Remak : LTE Band 12 QPSK_10M Link_H-CH

Tested by: Cyril Chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1422.00	-40.11	-27.92	-13.00	-12.19	-27.11	Peak
2 pp	2133.00	-29.53	-19.86	-13.00	-9.67	-16.53	Peak
3	2844.00	-36.25	-27.79	-13.00	-8.46	-23.25	Peak
4	3555.00	-45.18	-38.03	-13.00	-7.15	-32.18	Peak
5	4266.00	-42.78	-37.26	-13.00	-5.52	-29.78	Peak
6	4977.00	-38.27	-35.55	-13.00	-2.72	-25.27	Peak
7	5688.00	-42.94	-41.18	-13.00	-1.76	-29.94	Peak
8	6399.00	-32.05	-33.00	-13.00	0.95	-19.05	Peak

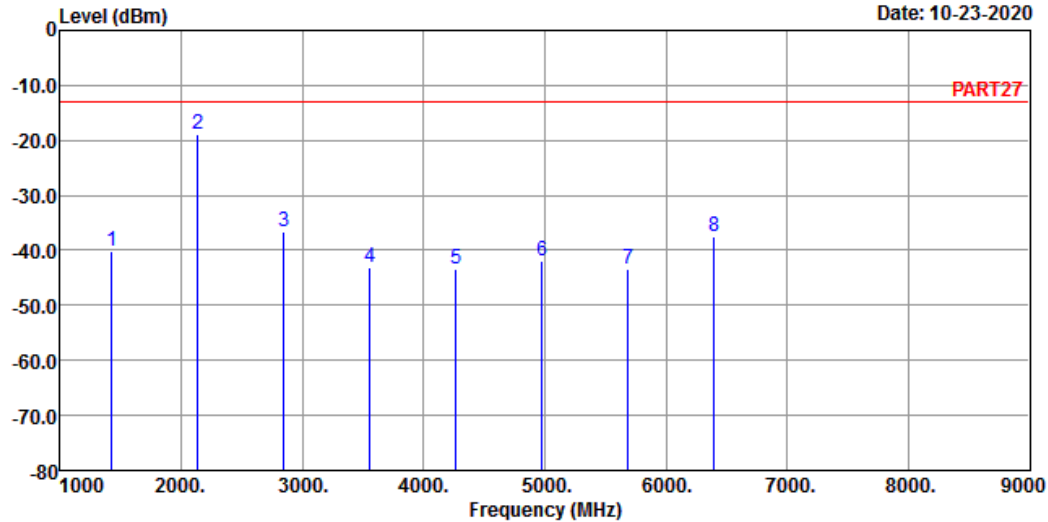


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 10-23-2020



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : LTE Band 12 QPSK_10M Link_H-CH

Tested by: Cyril Chen

	Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1422.00	-40.27	-28.08	-13.00	-12.19	-27.27	Peak
2 pp	2133.00	-18.91	-9.24	-13.00	-9.67	-5.91	Peak
3	2844.00	-36.64	-28.18	-13.00	-8.46	-23.64	Peak
4	3555.00	-43.10	-35.95	-13.00	-7.15	-30.10	Peak
5	4266.00	-43.52	-38.00	-13.00	-5.52	-30.52	Peak
6	4977.00	-41.81	-39.09	-13.00	-2.72	-28.81	Peak
7	5688.00	-43.49	-41.73	-13.00	-1.76	-30.49	Peak
8	6399.00	-37.41	-38.36	-13.00	0.95	-24.41	Peak

Mode D

WCDMA:

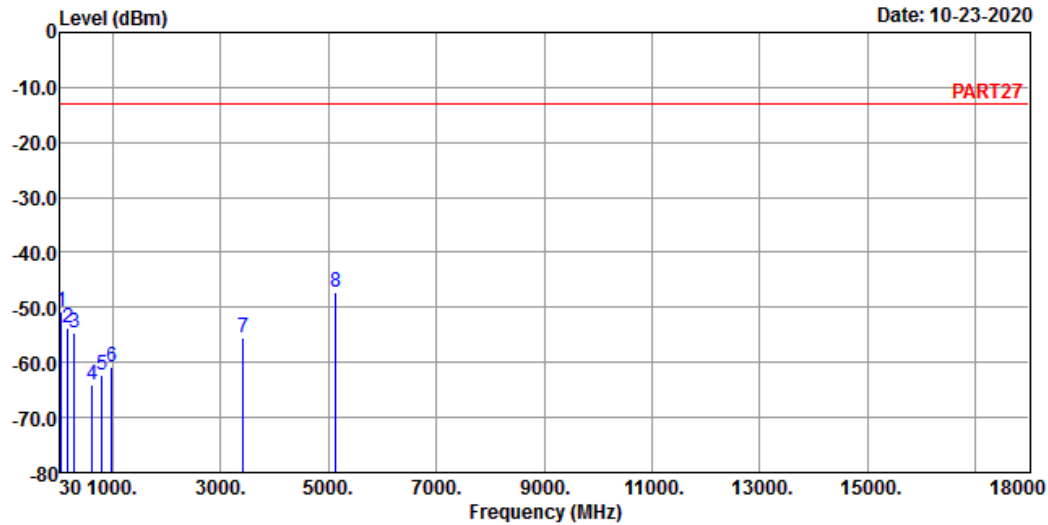
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : WCDMA Band 4 Link_L-CH
Tested by: Cyril Chen

	Freq	Level	Read Level	Limit	Over	
	MHz	dBm	dBm	dBm	dB	dB
1	42.61	-50.76	-49.82	-13.00	-0.94	-37.76 Peak
2	162.89	-53.68	-48.63	-13.00	-5.05	-40.68 Peak
3	285.11	-54.50	-47.79	-13.00	-6.71	-41.50 Peak
4	614.91	-64.09	-63.30	-13.00	-0.79	-51.09 Peak
5	801.15	-62.28	-63.01	-13.00	0.73	-49.28 Peak
6	979.63	-60.94	-63.80	-13.00	2.86	-47.94 Peak
7	3424.80	-55.43	-47.09	-13.00	-8.34	-42.43 Peak
8 pp	5137.20	-47.15	-45.41	-13.00	-1.74	-34.15 Peak

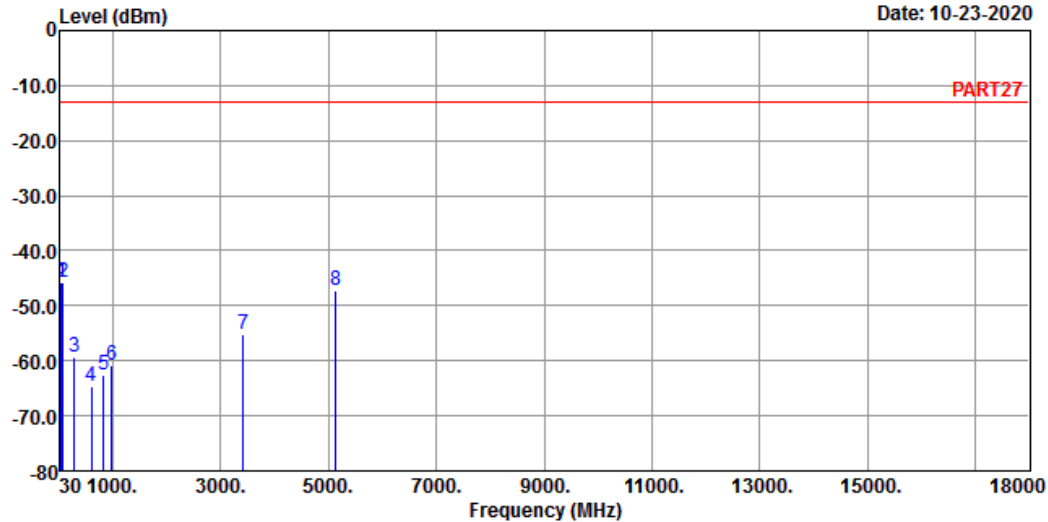


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 10-23-2020



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : WCDMA Band 4 Link_L-CH

Tested by: Cyril Chen

	Freq	Level	Read Level	Limit	Over	
	MHz	dBm	dBm	dBm	dB	Limit Remark
1 pp	42.61	-45.77	-44.83	-13.00	-0.94	-32.77 Peak
2	81.41	-45.89	-34.98	-13.00	-10.91	-32.89 Peak
3	287.05	-59.39	-52.64	-13.00	-6.75	-46.39 Peak
4	603.27	-64.71	-63.95	-13.00	-0.76	-51.71 Peak
5	827.34	-62.60	-63.09	-13.00	0.49	-49.60 Peak
6	975.75	-60.95	-63.67	-13.00	2.72	-47.95 Peak
7	3424.80	-55.30	-46.96	-13.00	-8.34	-42.30 Peak
8	5137.20	-47.16	-45.42	-13.00	-1.74	-34.16 Peak

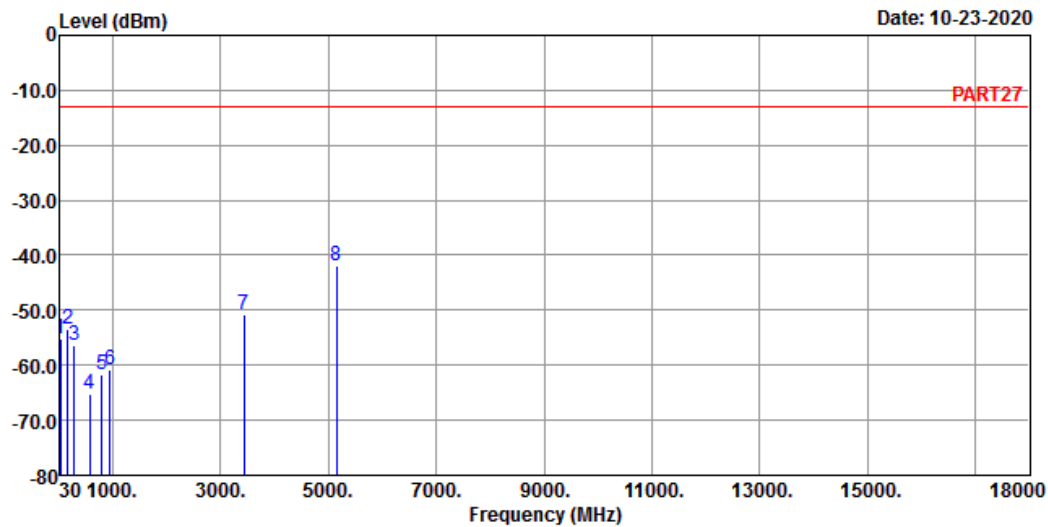
LTE Band 4
Channel Bandwidth: 20 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : LTE Band 4 QPSK_20M Link_L-CH
Tested by: Cyril Chen

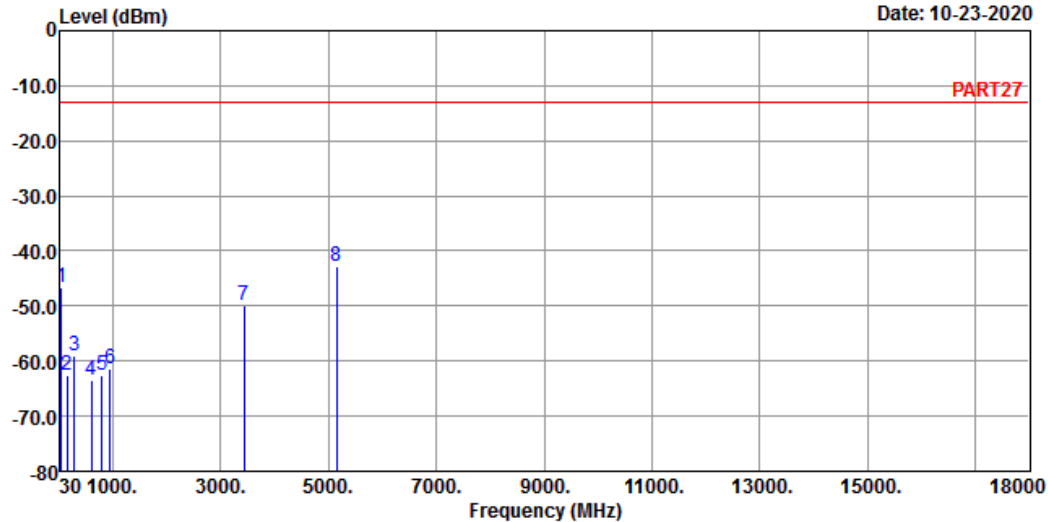
	Freq	Level	Read Level	Limit	Over	
	MHz	dBm	dBm	dBm	Factor	Limit Remark
1	37.76	-55.10	-54.66	-13.00	-0.44	-42.10 Peak
2	162.89	-53.52	-48.47	-13.00	-5.05	-40.52 Peak
3	290.93	-56.53	-49.70	-13.00	-6.83	-43.53 Peak
4	582.90	-65.19	-63.71	-13.00	-1.48	-52.19 Peak
5	800.18	-61.77	-62.51	-13.00	0.74	-48.77 Peak
6	955.38	-60.92	-62.92	-13.00	2.00	-47.92 Peak
7	3440.00	-50.84	-42.62	-13.00	-8.22	-37.84 Peak
8 pp	5160.00	-41.82	-39.91	-13.00	-1.91	-28.82 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6



Site : 966 Chamber 5
Condition: PART27 VERTICAL
Remak : LTE Band 4 QPSK_20M Link_L-CH
Tested by: Cyril Chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	42.61	-46.65	-45.71	-13.00	-0.94	-33.65	Peak
2	161.92	-62.57	-57.59	-13.00	-4.98	-49.57	Peak
3	287.05	-59.04	-52.29	-13.00	-6.75	-46.04	Peak
4	609.09	-63.58	-62.80	-13.00	-0.78	-50.58	Peak
5	803.09	-62.50	-63.21	-13.00	0.71	-49.50	Peak
6	958.29	-61.31	-63.42	-13.00	2.11	-48.31	Peak
7	3440.00	-49.79	-41.57	-13.00	-8.22	-36.79	Peak
8 pp	5160.00	-42.89	-40.98	-13.00	-1.91	-29.89	Peak

LTE Band 12
Channel Bandwidth: 10 MHz / QPSK
High Channel

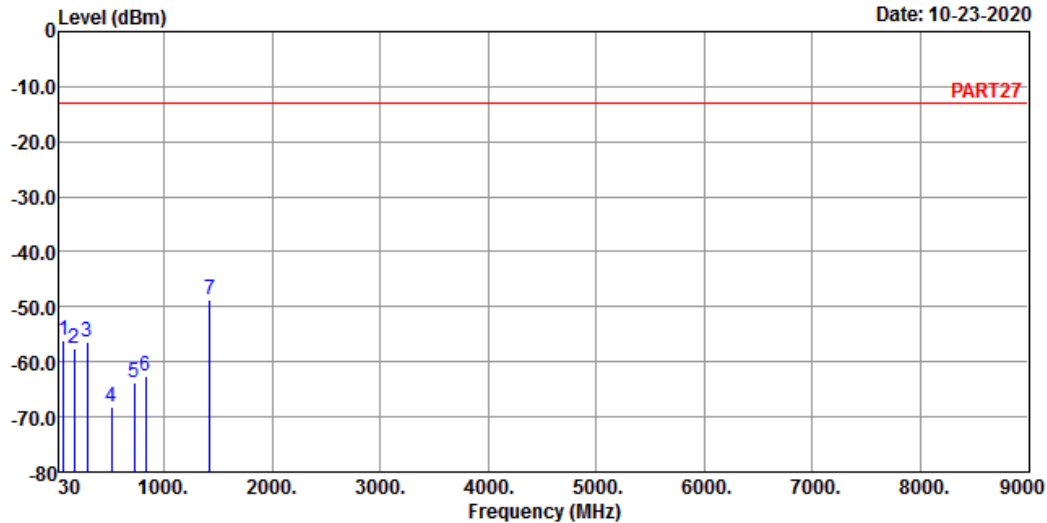


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 10-23-2020



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : LTE Band 12 QPSK_10M Link_H-CH
Tested by: Cyril Chen

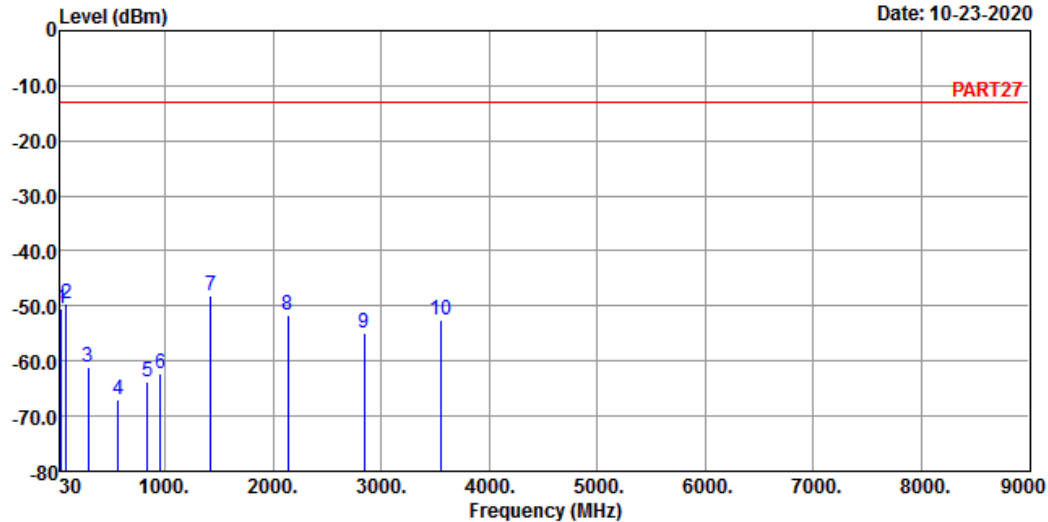
	Freq	Level	Read Level	Limit	Over	
	MHz	dBm	dBm	dBm	dB	Limit Remark
1	69.77	-56.07	-47.67	-13.00	-8.40	-43.07 Peak
2	170.65	-57.67	-51.97	-13.00	-5.70	-44.67 Peak
3	289.96	-56.38	-49.57	-13.00	-6.81	-43.38 Peak
4	514.03	-68.06	-63.93	-13.00	-4.13	-55.06 Peak
5	722.58	-63.77	-64.11	-13.00	0.34	-50.77 Peak
6	825.40	-62.62	-63.13	-13.00	0.51	-49.62 Peak
7 pp	1422.00	-48.60	-36.41	-13.00	-12.19	-35.60 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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Data: 6



Site : 966 Chamber 5
Condition: PART27 VERTICAL
Remak : LTE Band 12 QPSK_10M Link_H-CH
Tested by: Cyril Chen

	Freq	Level	Read Level	Limit Line	Over Factor	Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	36.79	-50.36	-49.37	-13.00	-0.99	-37.36	Peak
2	85.29	-49.72	-38.72	-13.00	-11.00	-36.72	Peak
3	289.96	-61.22	-54.41	-13.00	-6.81	-48.22	Peak
4	563.50	-66.97	-64.69	-13.00	-2.28	-53.97	Peak
5	838.01	-63.65	-64.05	-13.00	0.40	-50.65	Peak
6	956.35	-62.26	-64.30	-13.00	2.04	-49.26	Peak
7 pp	1422.00	-48.12	-35.93	-13.00	-12.19	-35.12	Peak
8	2133.00	-51.59	-41.92	-13.00	-9.67	-38.59	Peak
9	2844.00	-54.85	-46.39	-13.00	-8.46	-41.85	Peak
10	3555.00	-52.49	-45.34	-13.00	-7.15	-39.49	Peak

5 Pictures of Test Arrangements

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

Appendix – Information of 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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Web Site: www.bureauveritas-adt.com

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

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