

Partial FCC Test Report

(PART 27)

Report No.: RFBGSN-WTW-P20080589-11

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: Nov. 13, 2020

Applicant: PeopleNet Communications Corporation

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

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33383, Taiwan

**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 |

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 : , **Date:** Nov. 13, 2020
Vera Huang / Specialist

Approved by : , **Date:** Nov. 13, 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 |
| | LTE Band 12 (Channel Bandwidth: 10 MHz) | 704.0 ~ 711.0 MHz |
| Max. ERP Power | 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 |
| | LTE Band 12 (Channel Bandwidth: 10 MHz) | 139.96 mW |
| Max. EIRP Power | 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-MA2 | Trimble Gateway-BA2 | Trimble Gateway-TE2 |
| 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-MA2 | Trimble Gateway-BA2 | Trimble Gateway-TE2 |
| 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-MA2 | a. 1 44-pin Sinbon connector b. 3 Fakra connectors for external antennas c. 1 M13 connector for ethernet |
| Trimble Gateway-BA2 | a. 1 44-pin Sinbon connector b. 2 Fakra connectors for external antennas c. 1 M13 connector for ethernet |
| Trimble Gateway-TE2 | 1 44-pin Sinbon connector |

3. The antenna gain is listed as below.

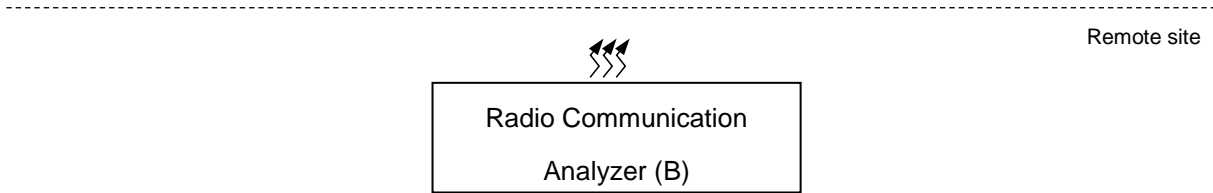
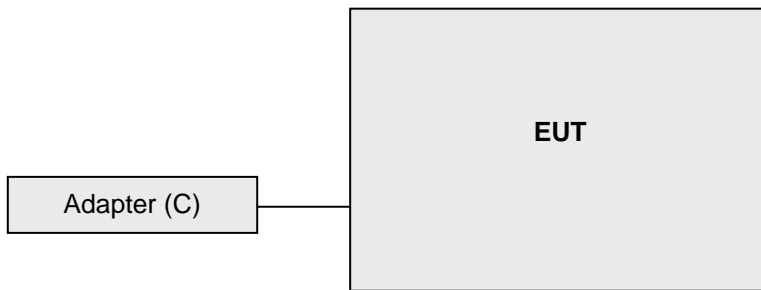
| Band | | WCDMA 4 / LTE 4 | LTE 12 |
|------------|-----------|-----------------|--------|
| Gain (dBi) | Antenna 1 | 3.82 | -0.03 |
| | Antenna 2 | 4.04 | 0.06 |
| | Antenna 3 | 1.93 | 1.6 |
| | Antenna 4 | 1.2 | 1.2 |
| | Antenna 5 | 3 | 3 |

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.

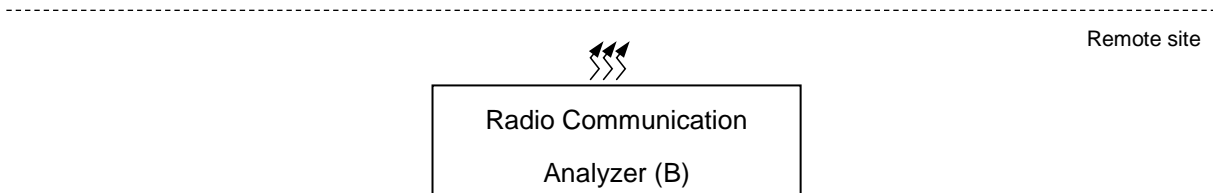
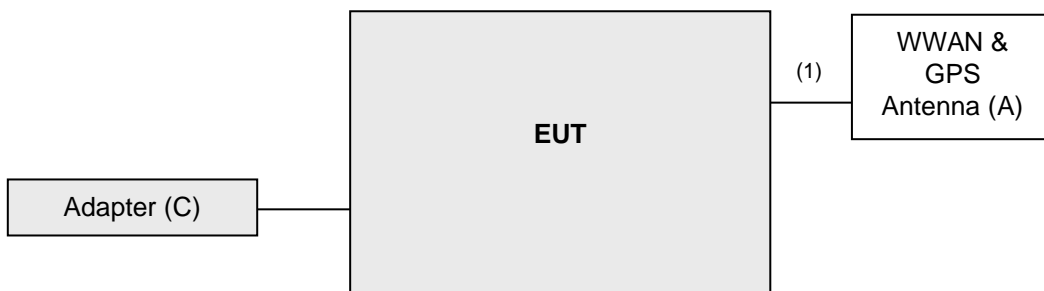
5. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

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, $E.R.P \text{ power} = E.I.R.P \text{ power} - 2.15 \text{ dB}$.

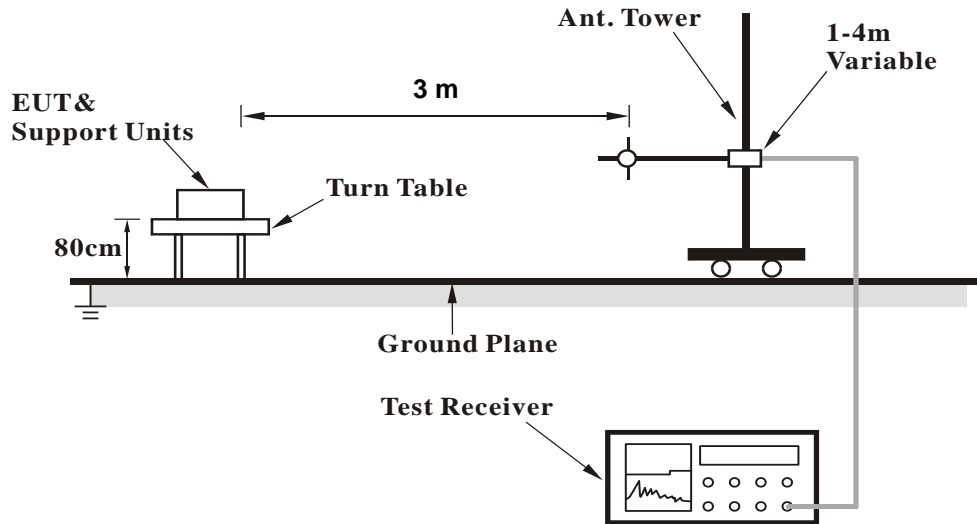
Conducted Power Measurement:

- 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.

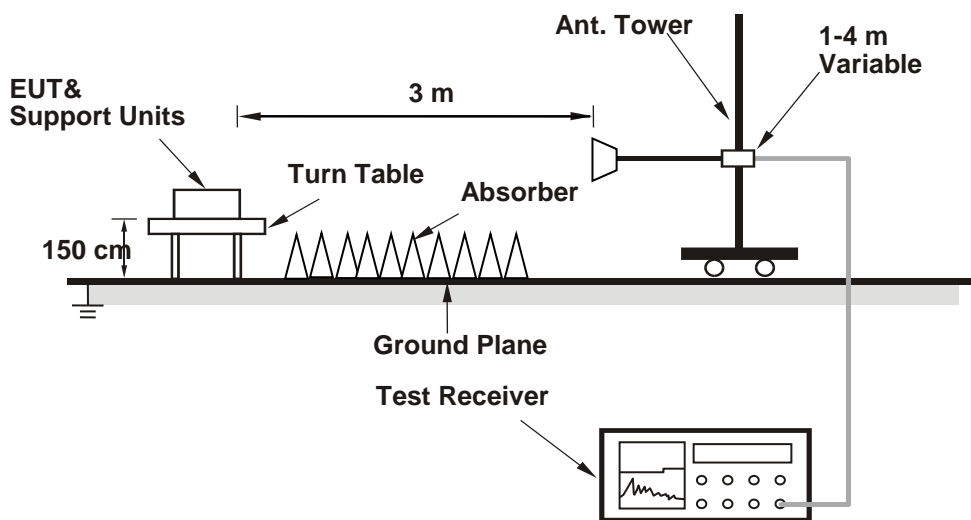
4.1.3 Test Setup

EIRP / ERP Measurement:

<Radiated Emission below or equal 1 GHz>

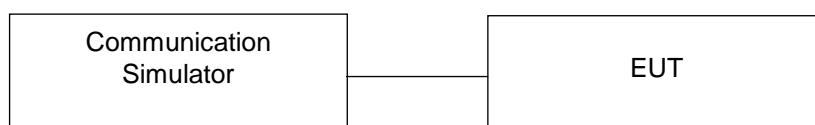


<Radiated Emission above 1 GHz>



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 | |
| | V | 19965 | 1711.5 | -12.22 | 37.28 | 25.06 | 320.63 |
| | | 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 | |
| | V | 19965 | 1711.5 | -13.21 | 37.28 | 24.07 | 255.27 |
| | | 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 | |
| | V | 19975 | 1712.5 | -12.16 | 37.28 | 25.12 | 325.09 |
| | | 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 | |
| | V | 19975 | 1712.5 | -13.13 | 37.28 | 24.15 | 260.02 |
| | | 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 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:

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:

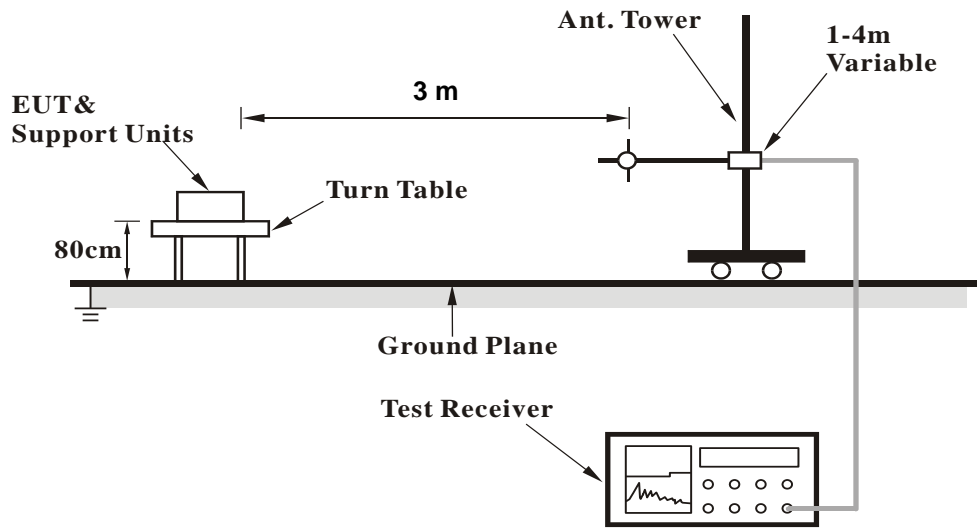
The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

4.2.3 Deviation from Test Standard

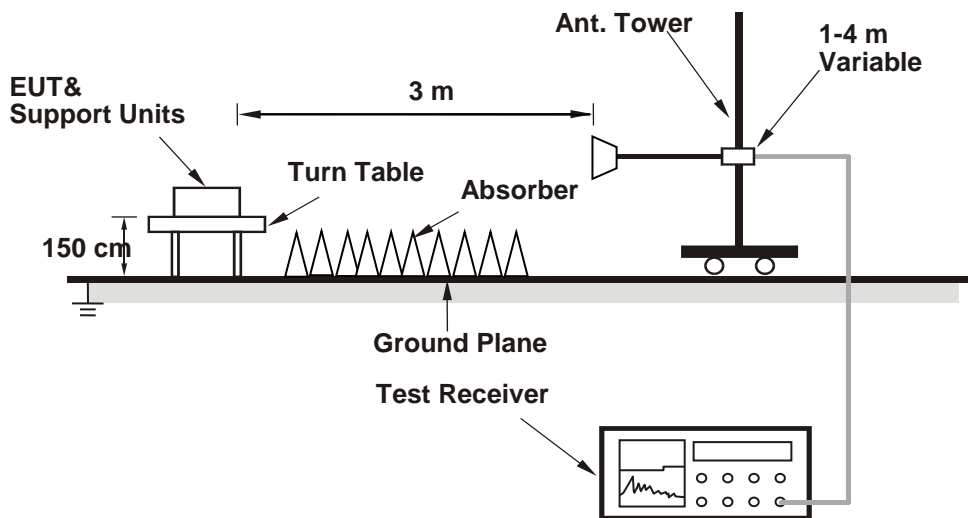
No deviation.

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:

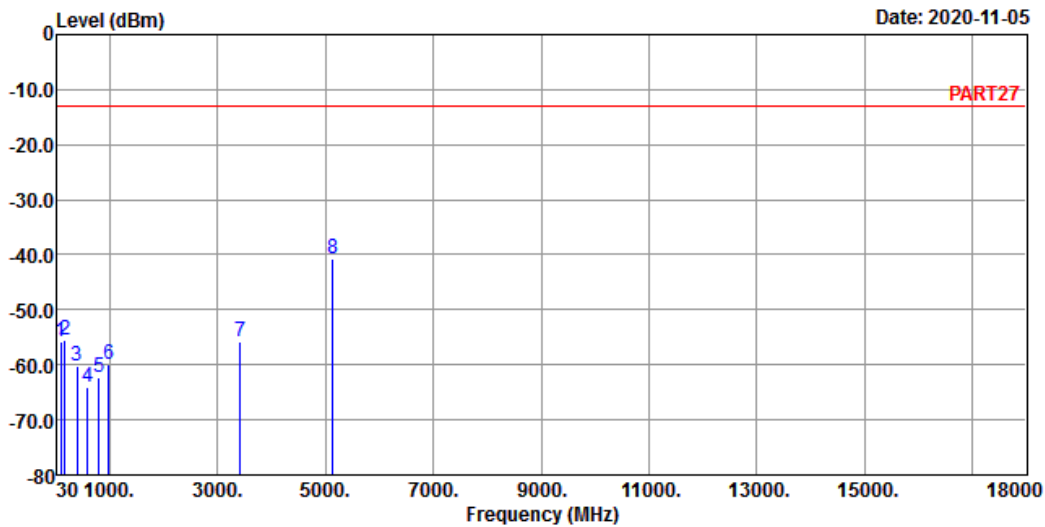
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



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 |

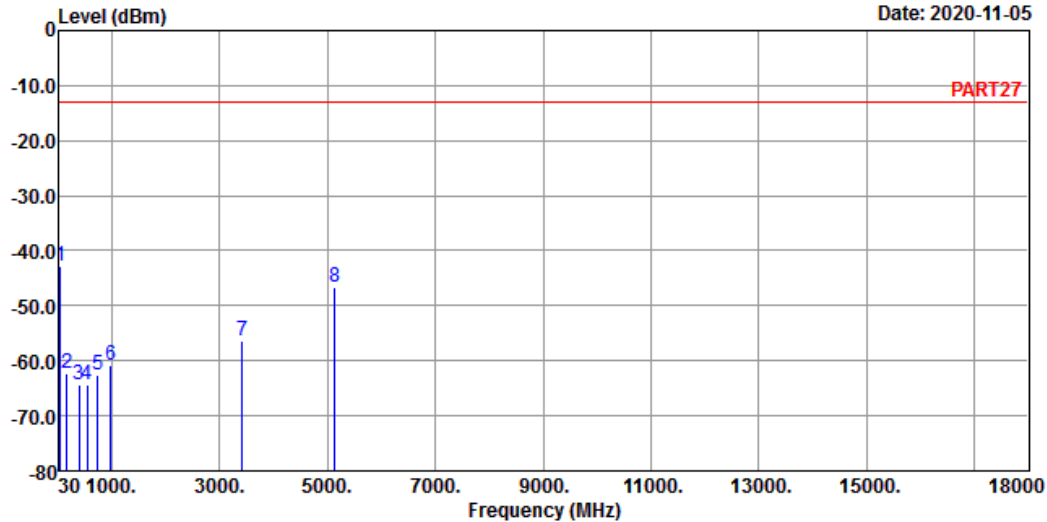


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A D T

Data: 6

Date: 2020-11-05



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

| | Freq | Level | Read Level | Limit Line | Over 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 |

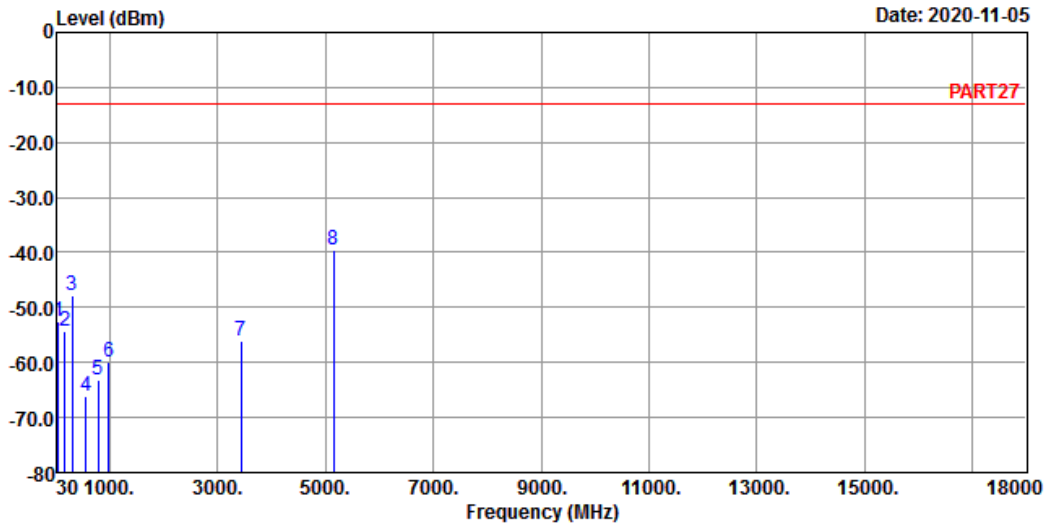
LTE Band 4
 Channel Bandwidth: 20 MHz / QPSK
 Low Channel



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 | Line Factor | Over Limit | Remark |
|------|---------|--------|------------|--------|-------------|------------|--------|
| | MHz | dBm | dBm | dBm | dB | dB | |
| 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 |

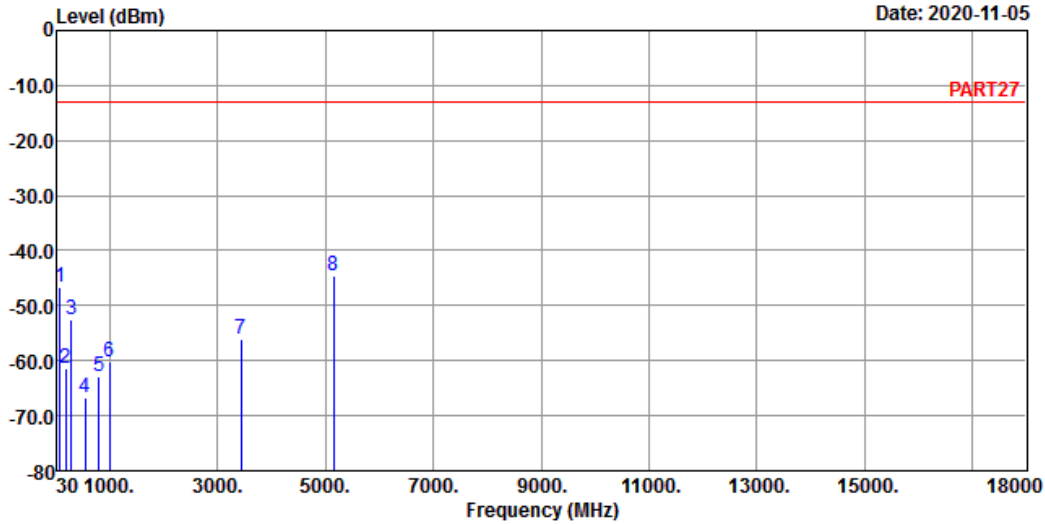


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A D T

Data: 6

Date: 2020-11-05



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 |

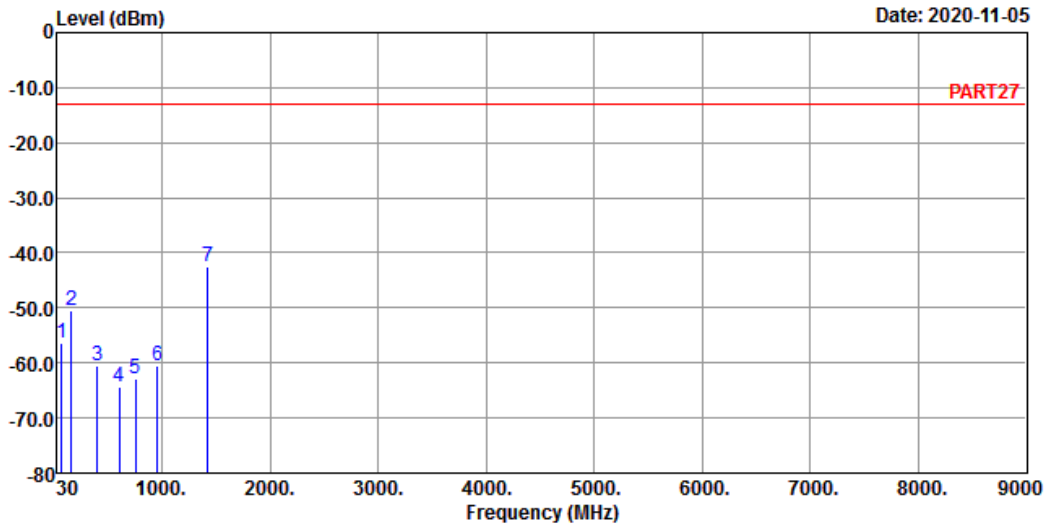
LTE Band 12
Channel Bandwidth: 10 MHz / QPSK
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



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 | 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 |

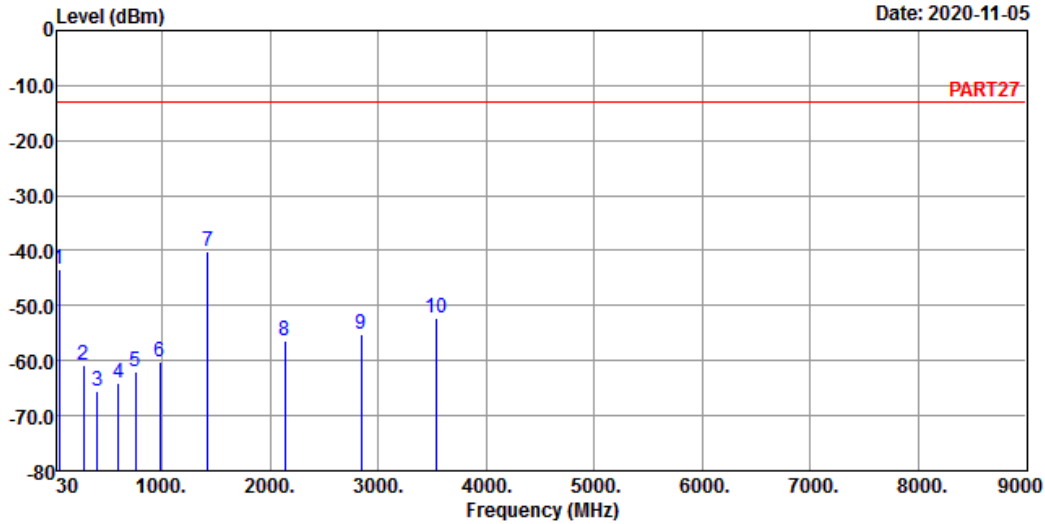


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

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 | Over Factor | Over 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 |

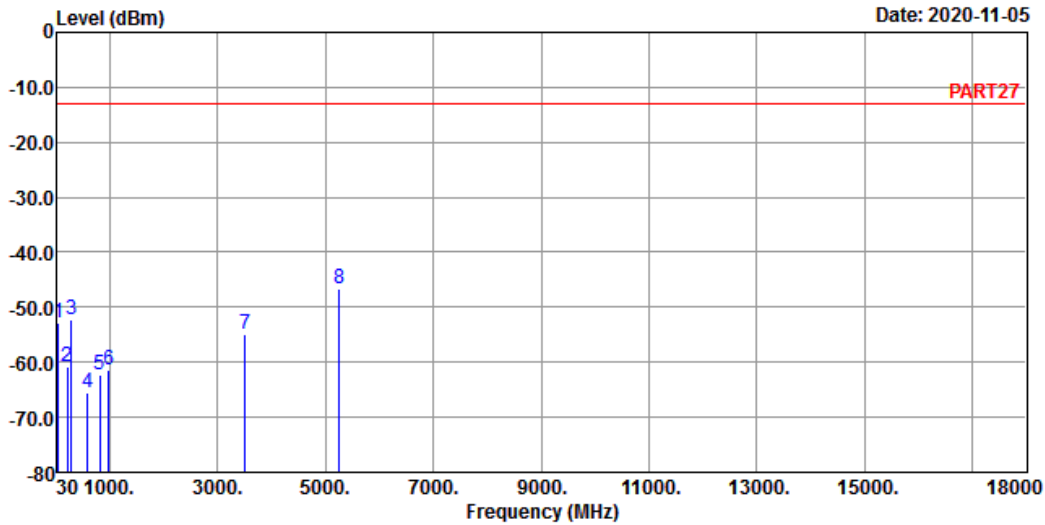
Mode B
WCDMA:
High Channel



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 | Line Factor | Over Limit | Remark |
|------|---------|--------|------------|--------|-------------|------------|--------|
| | MHz | dBm | dBm | dBm | dB | dB | |
| 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 |

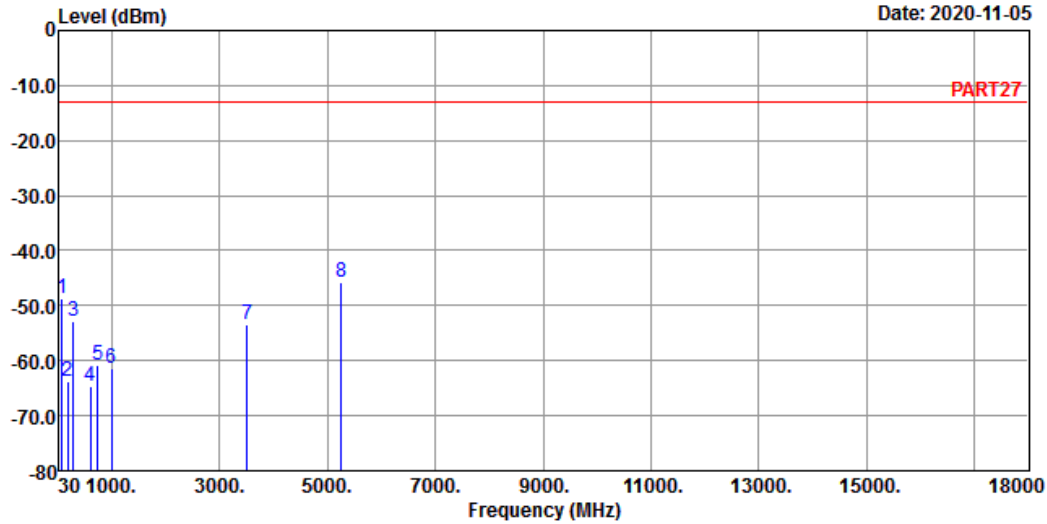


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2020-11-05



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

| | Read | Limit | Over | | | |
|------|---------|--------|--------|--------|--------|-------------|
| Freq | Level | Level | Line | Factor | 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 |

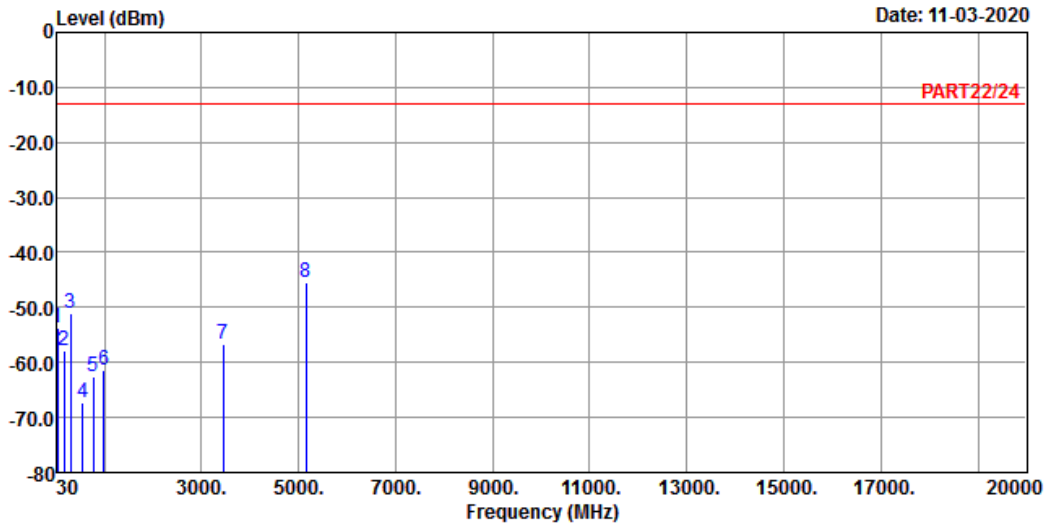
LTE Band 4
Channel Bandwidth: 20 MHz / QPSK
Low Channel



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

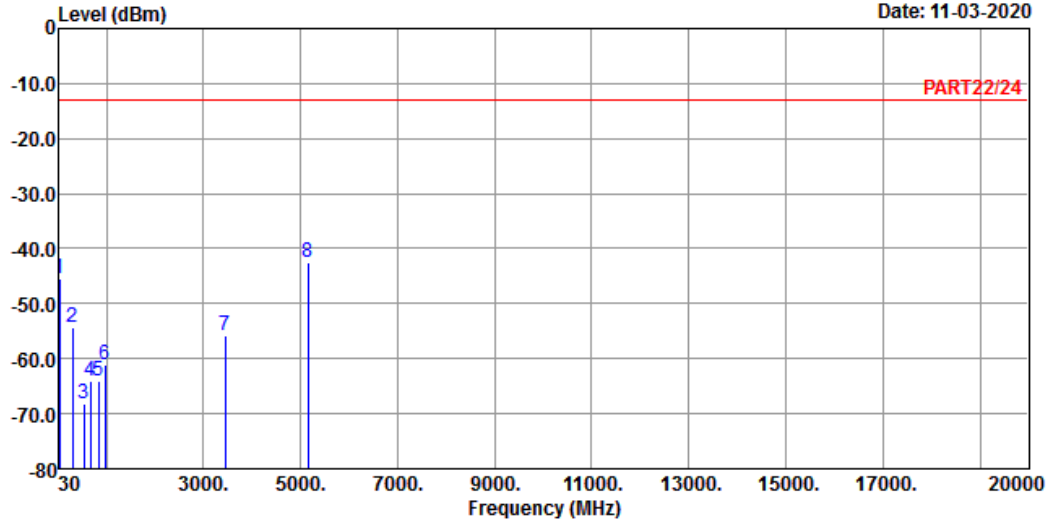
| | Freq | Level | Read Level | Limit | Over | Over | Remark |
|------|---------|--------|------------|--------|-------|--------|--------|
| | MHz | dBm | dBm | dBm | dB | dB | |
| 1 | 42.61 | -53.87 | -52.93 | -13.00 | -0.94 | -40.87 | Peak |
| 2 | 164.83 | -57.86 | -52.67 | -13.00 | -5.19 | -44.86 | 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

| | Read | Limit | Over | | | |
|------|---------|--------|--------|--------|-------|-------------|
| Freq | Level | Level | Line | Factor | 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 |

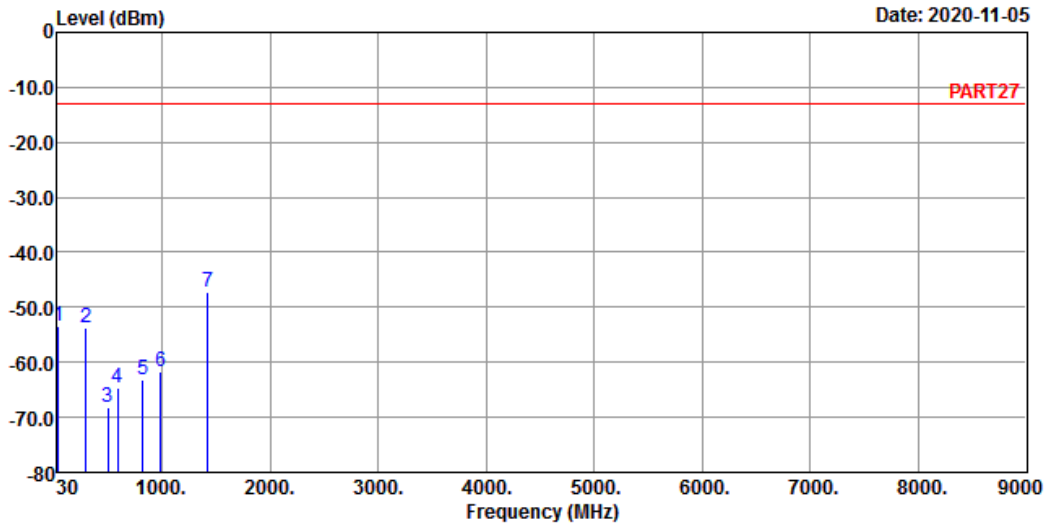
LTE Band 12
Channel Bandwidth: 10 MHz / QPSK
High Channel



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 | Over | Over | 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 |

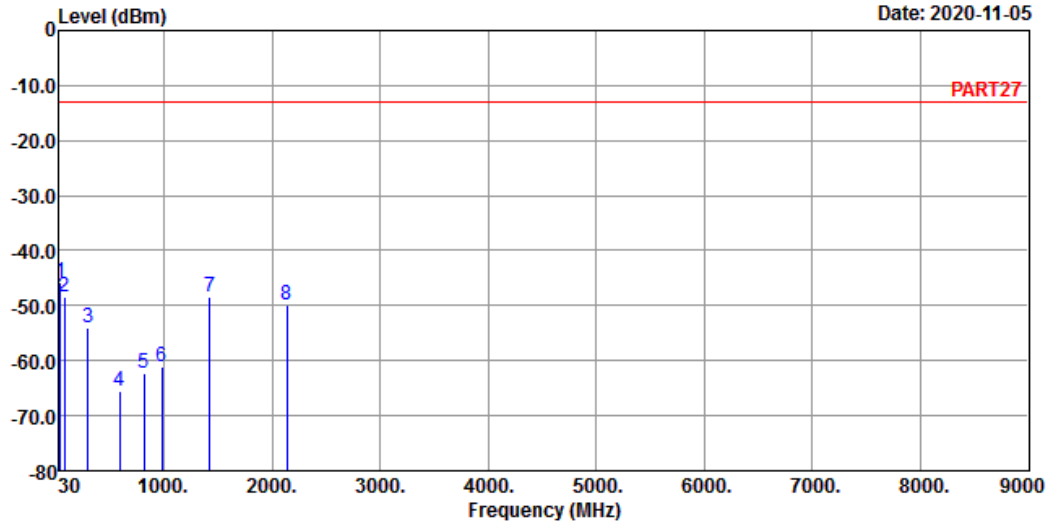


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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

| | Read | Limit | Over | | | | |
|------|---------|--------|--------|--------|--------|--------|------|
| Freq | Level | Level | Line | Factor | 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 |

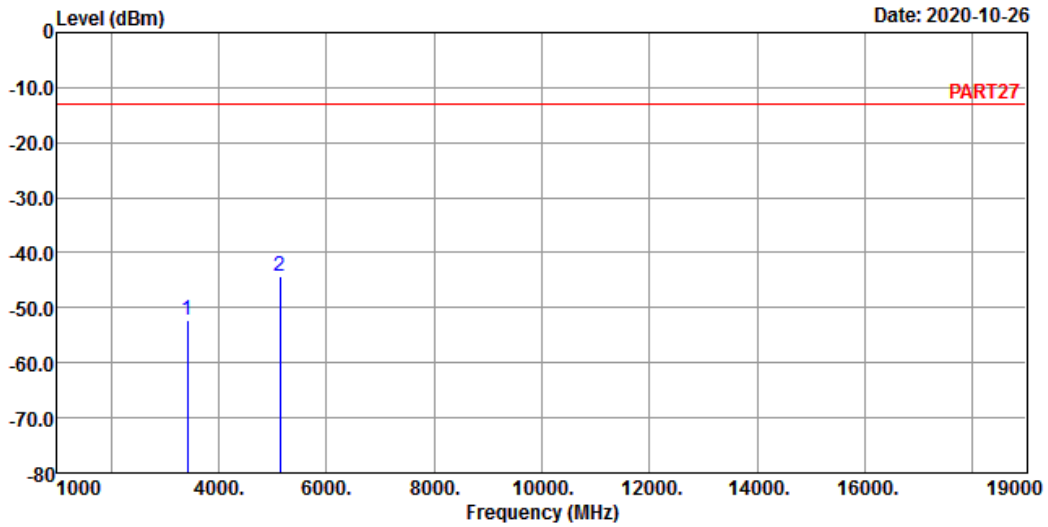
Mode C
WCDMA:
Low Channel



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

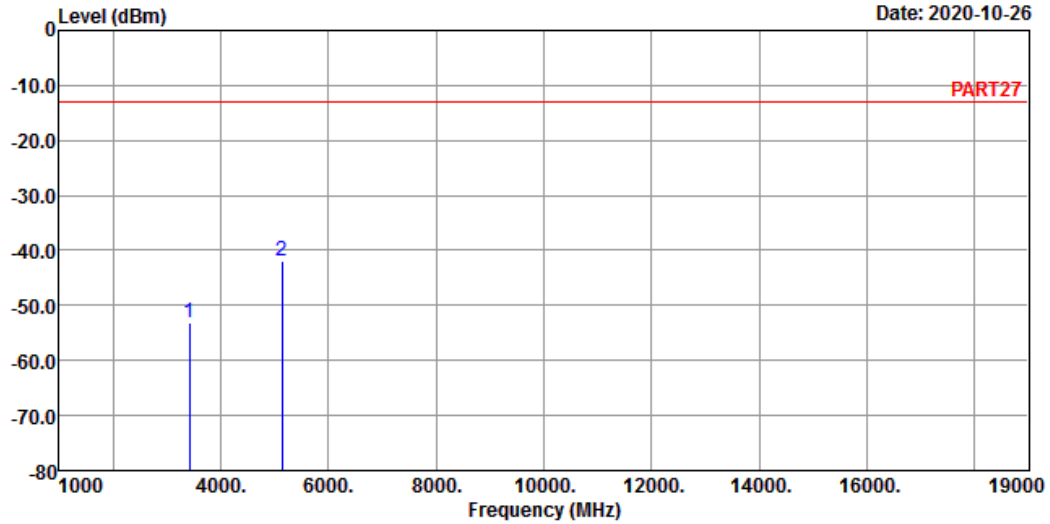
| | Freq | Level | Read Level | Limit | Line Factor | Over Limit | Remark |
|------|---------|--------|------------|--------|-------------|------------|--------|
| | MHz | dBm | dBm | dBm | dB | dB | |
| 1 | 3424.80 | -52.31 | -43.97 | -13.00 | -8.34 | -39.31 | Peak |
| 2 pp | 5137.20 | -44.27 | -42.53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



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



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 | 5137.20 | -41.84 | -40.10 | -13.00 | -1.74 | -28.84 | Peak |

Middle Channel

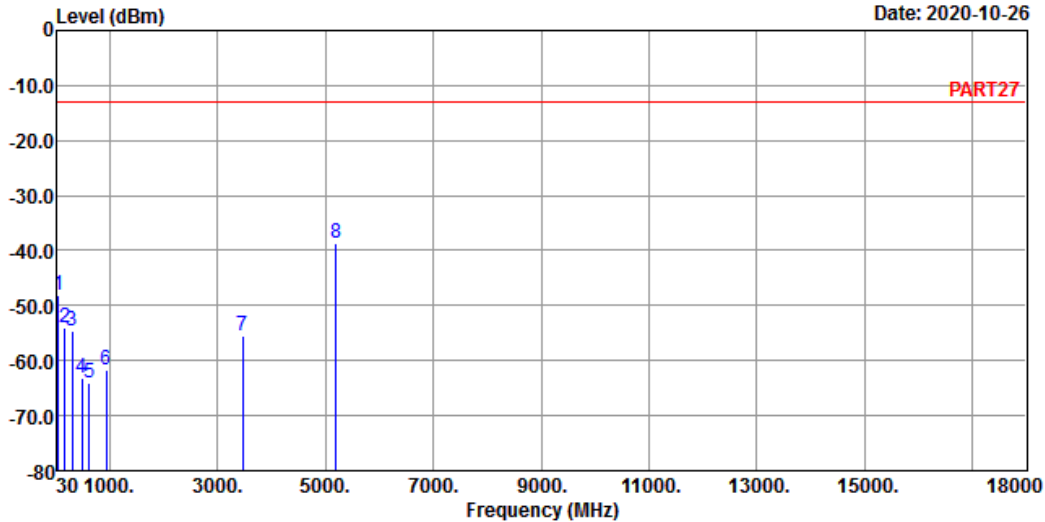


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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 | Over 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 |

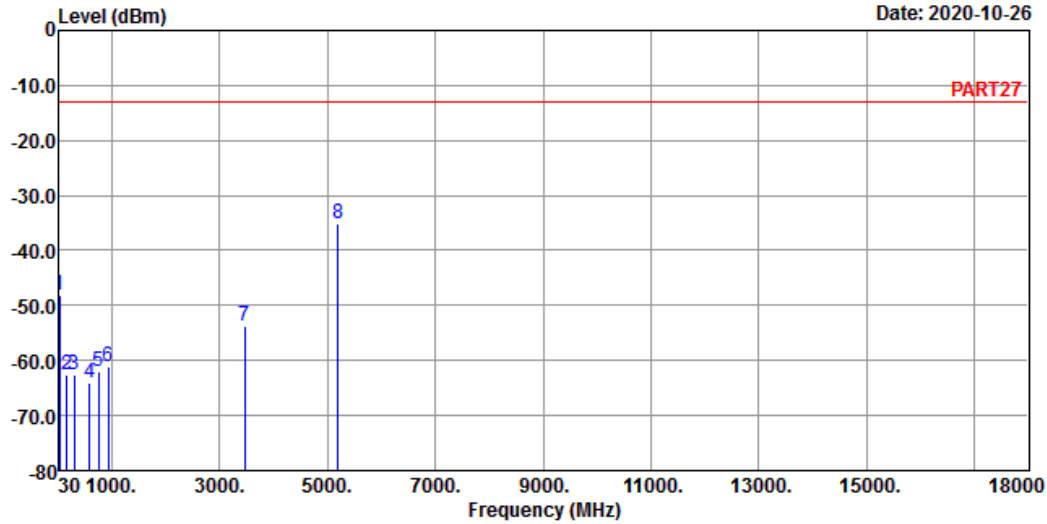


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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 Line | Over Factor | Over Limit | Remark |
|------|---------|--------|------------|------------|-------------|------------|--------|
| | MHz | dBm | dBm | dBm | dB | dB | |
| 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

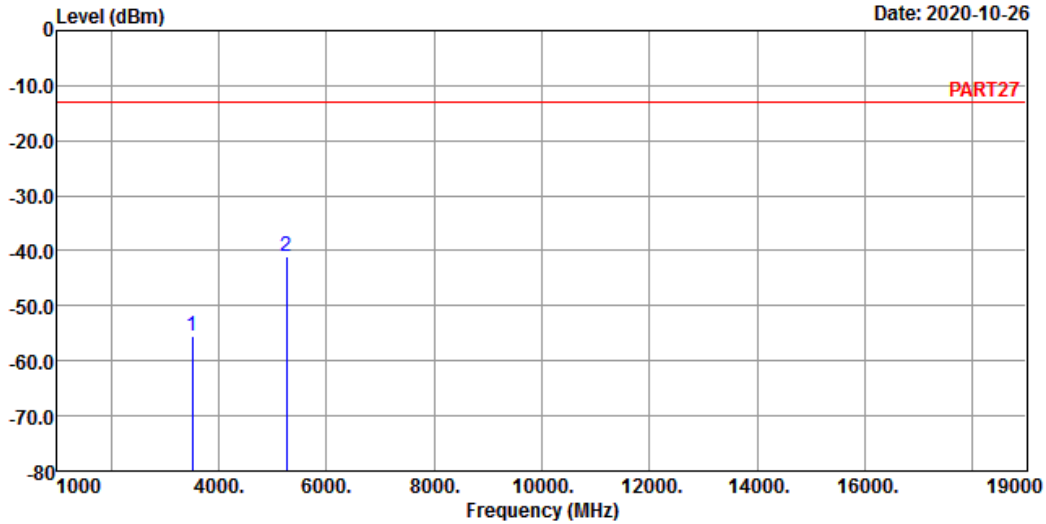


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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

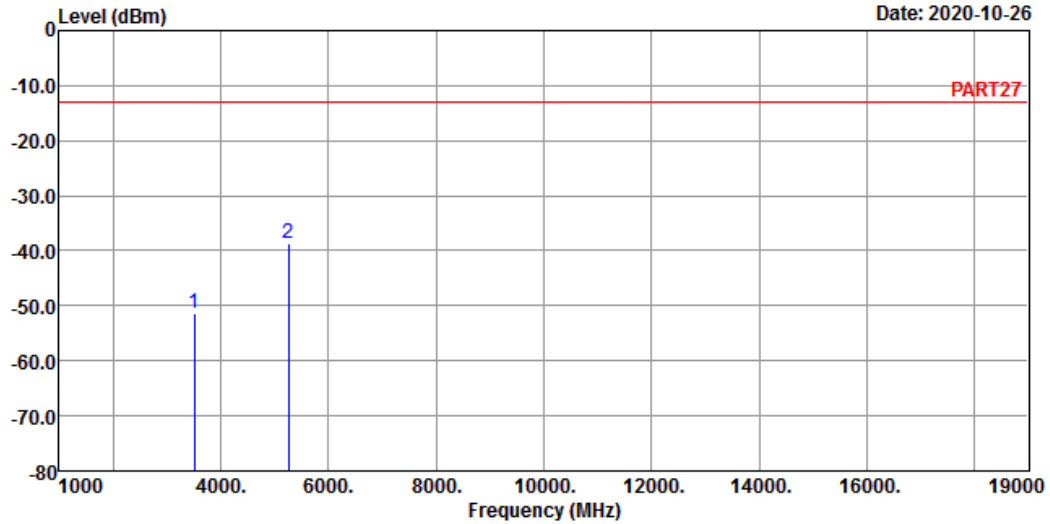
| | Freq | Level | Read Level | Limit | Line Factor | Over Limit | Remark |
|------|---------|--------|------------|--------|-------------|------------|--------|
| | MHz | dBm | dBm | dBm | dB | dB | |
| 1 | 3505.20 | -55.36 | -47.91 | -13.00 | -7.45 | -42.36 | Peak |
| 2 pp | 5257.80 | -40.97 | -38.45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



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



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

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

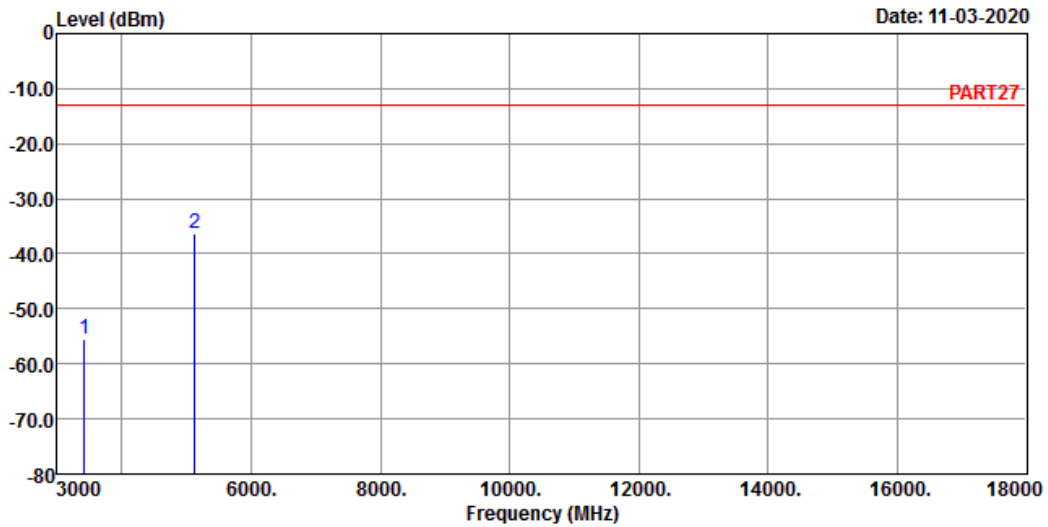
LTE Band 4
Channel Bandwidth: 1.4 MHz / QPSK
Low Channel



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

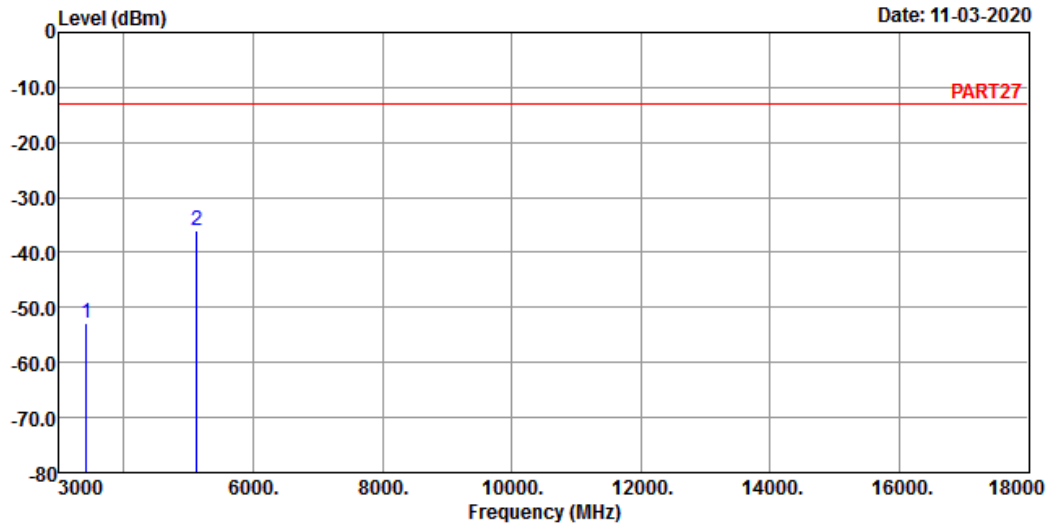
| | Freq | Level | Read Level | Limit | Line Factor | Over Limit | Remark |
|---|---------|--------|------------|--------|-------------|------------|--------|
| | MHz | dBm | dBm | dBm | dB | dB | |
| 1 | 3421.10 | -55.37 | -47.03 | -13.00 | -8.34 | -42.37 | Peak |
| 2 | 5132.10 | -36.23 | -34.49 | -13.00 | -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
 Remark : 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 | 5132.10 | -35.98 | -34.24 | -13.00 | -1.74 | -22.98 | Peak |

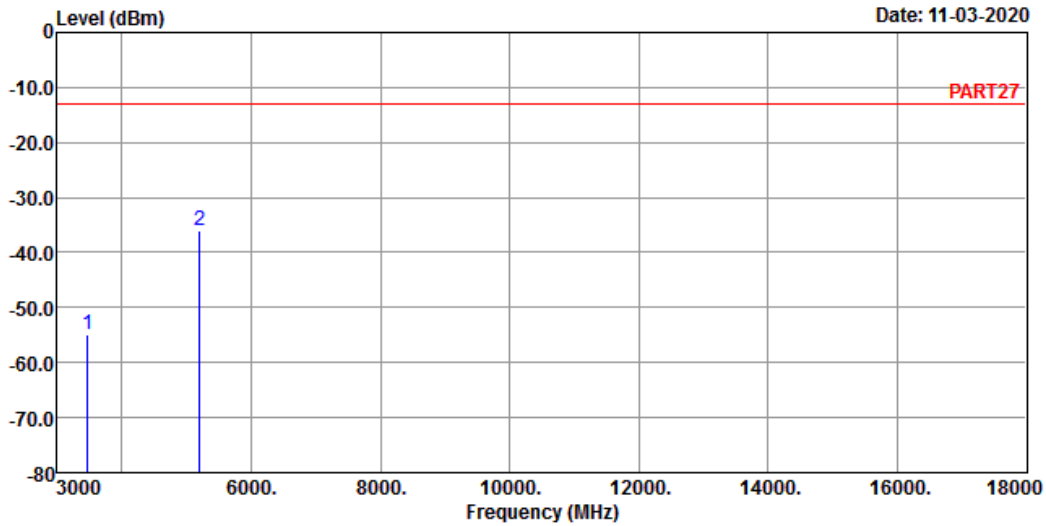
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



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

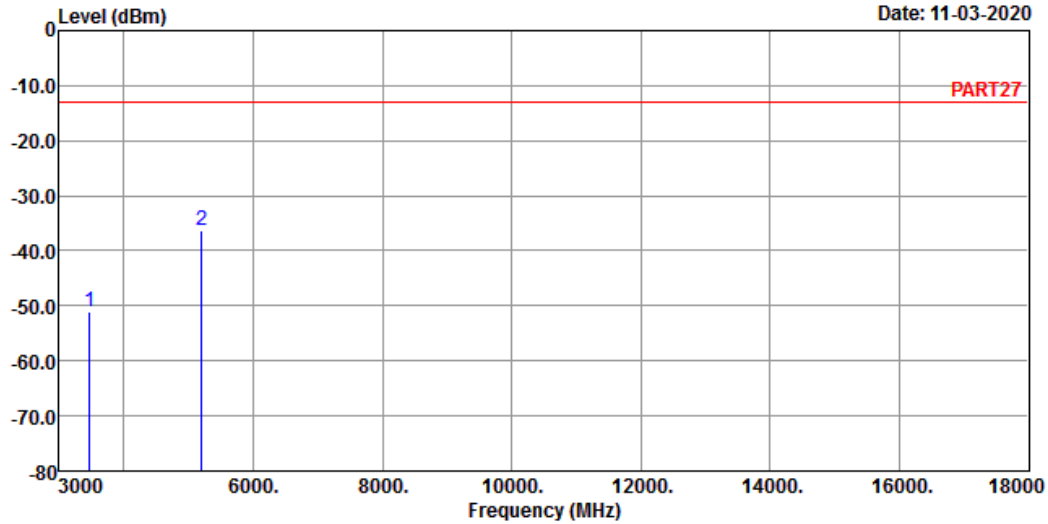
| | Freq | Level | Read Level | Limit | Line Factor | Over Limit | Remark |
|------|---------|--------|------------|--------|-------------|------------|--------|
| | | | | | | | |
| 1 | 3465.00 | -54.92 | -47.04 | -13.00 | -7.88 | -41.92 | Peak |
| 2 pp | 5197.50 | -35.98 | -33.91 | -13.00 | -2.07 | -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 | 5197.50 | -36.29 | -34.22 | -13.00 | -2.07 | -23.29 | Peak |

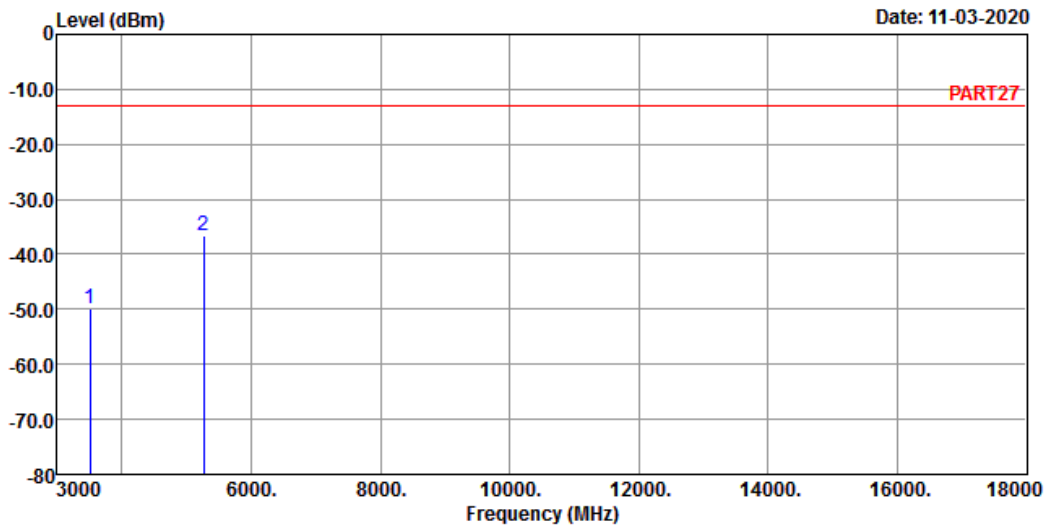
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



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

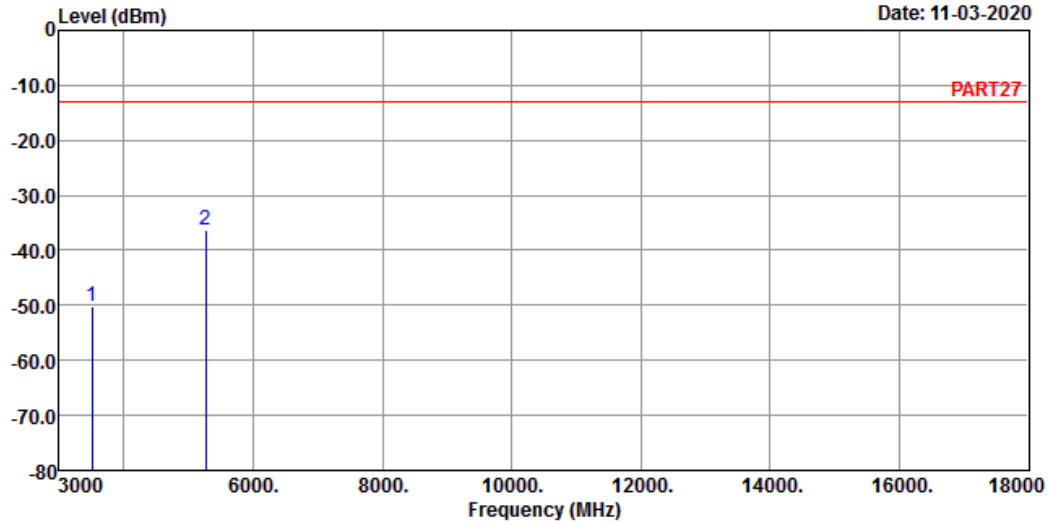
| | Freq | Level | Read Level | Limit | Line Factor | Over Limit | Remark |
|------|---------|--------|------------|--------|-------------|------------|--------|
| | MHz | dBm | dBm | dBm | dB | dB | |
| 1 | 3508.60 | -49.76 | -42.31 | -13.00 | -7.45 | -36.76 | Peak |
| 2 pp | 5262.90 | -36.65 | -34.13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

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

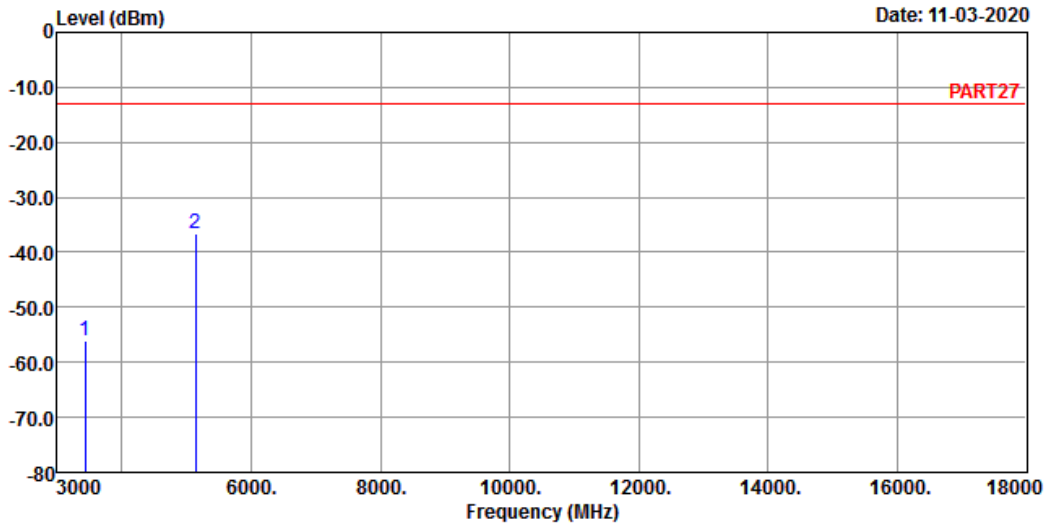
Channel Bandwidth: 5 MHz / QPSK
 Low Channel



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

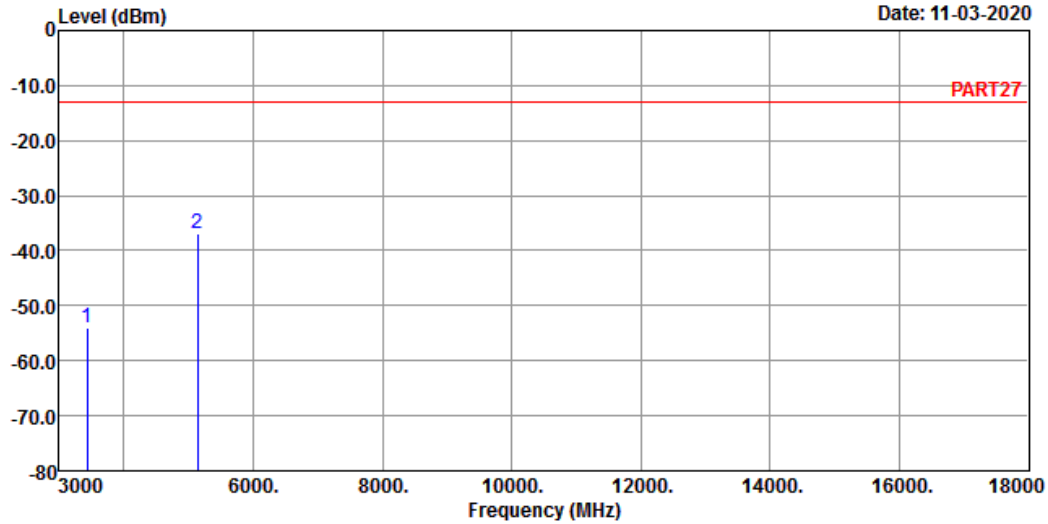
| | Freq | Level | Read Level | Limit | Line Factor | Over Limit | Remark |
|------|---------|--------|------------|--------|-------------|------------|--------|
| | MHz | dBm | dBm | dBm | dB | dB | |
| 1 | 3425.00 | -56.08 | -47.74 | -13.00 | -8.34 | -43.08 | Peak |
| 2 pp | 5137.50 | -36.55 | -34.81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

| | Read | Limit | Over | | | |
|------|---------|--------|--------|--------|-------|-------------|
| Freq | Level | Level | Line | Factor | 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 |

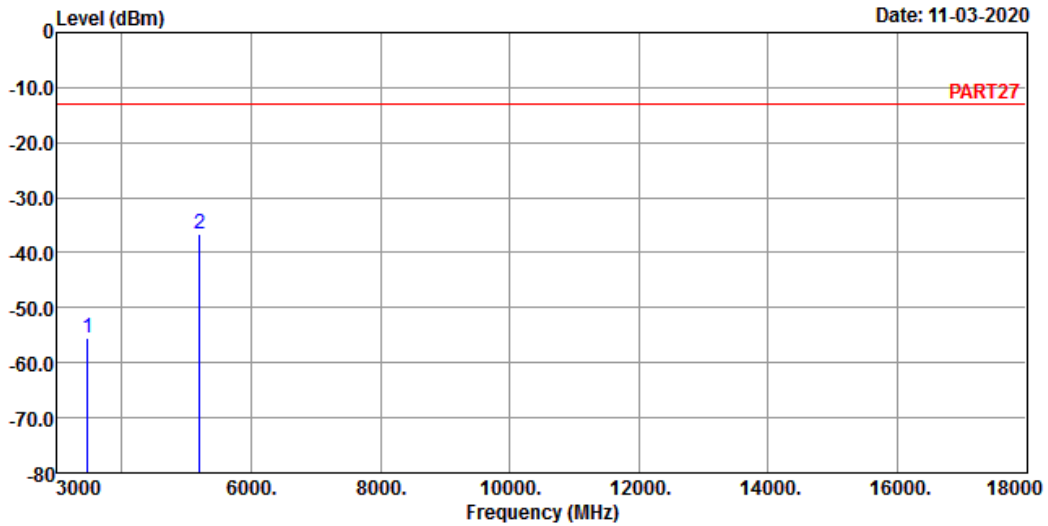
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



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

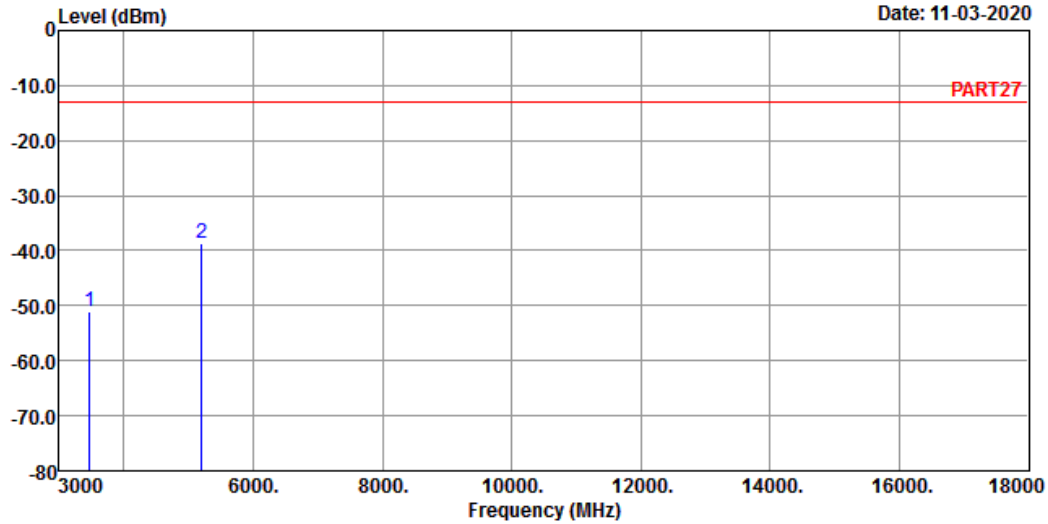
| | Freq | Level | Read | Limit | Over | | Remark |
|------|---------|--------|--------|--------|--------|--------|--------|
| | | | Level | Line | Factor | Limit | |
| | MHz | dBm | dBm | dBm | dB | dB | |
| 1 | 3465.00 | -55.40 | -47.52 | -13.00 | -7.88 | -42.40 | Peak |
| 2 pp | 5197.50 | -36.59 | -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 | 5197.50 | -38.68 | -36.61 | -13.00 | -2.07 | -25.68 | Peak |

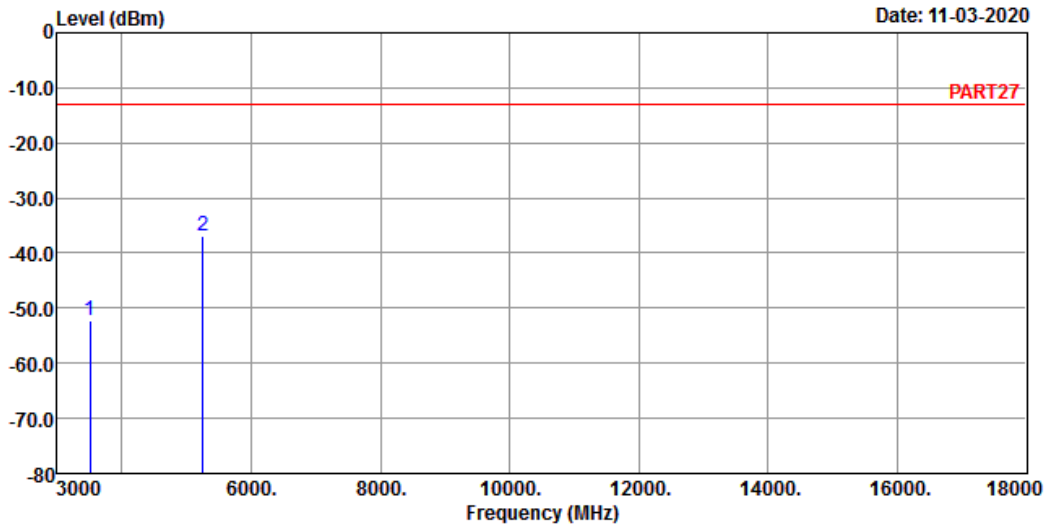
High Channel



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

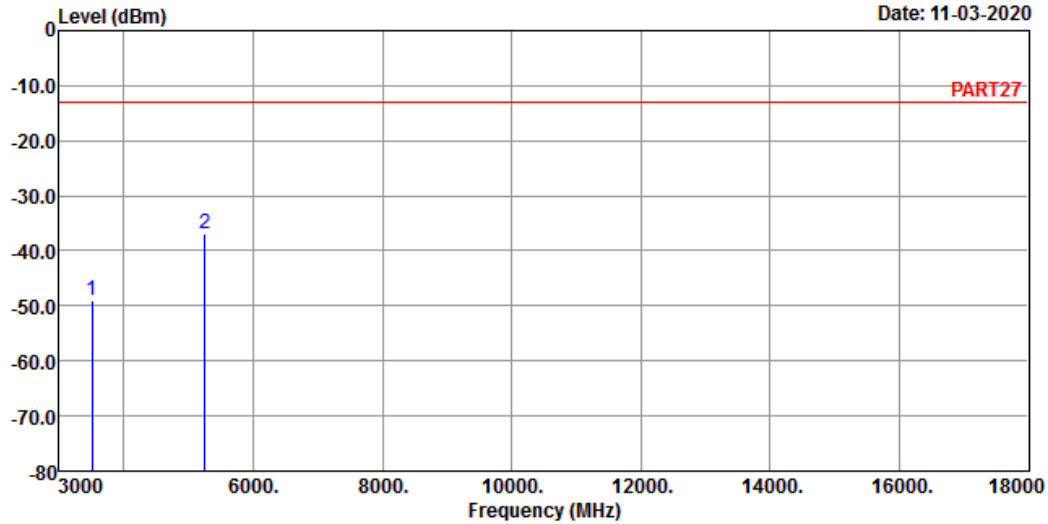
| | Freq | Level | Read | Limit | Over | | Remark |
|------|---------|--------|--------|--------|--------|--------|--------|
| | | | Level | Line | Factor | Limit | |
| | MHz | dBm | dBm | dBm | dB | dB | |
| 1 | 3505.00 | -52.16 | -44.71 | -13.00 | -7.45 | -39.16 | Peak |
| 2 pp | 5257.50 | -36.83 | -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 | 5257.50 | -36.92 | -34.40 | -13.00 | -2.52 | -23.92 | Peak |

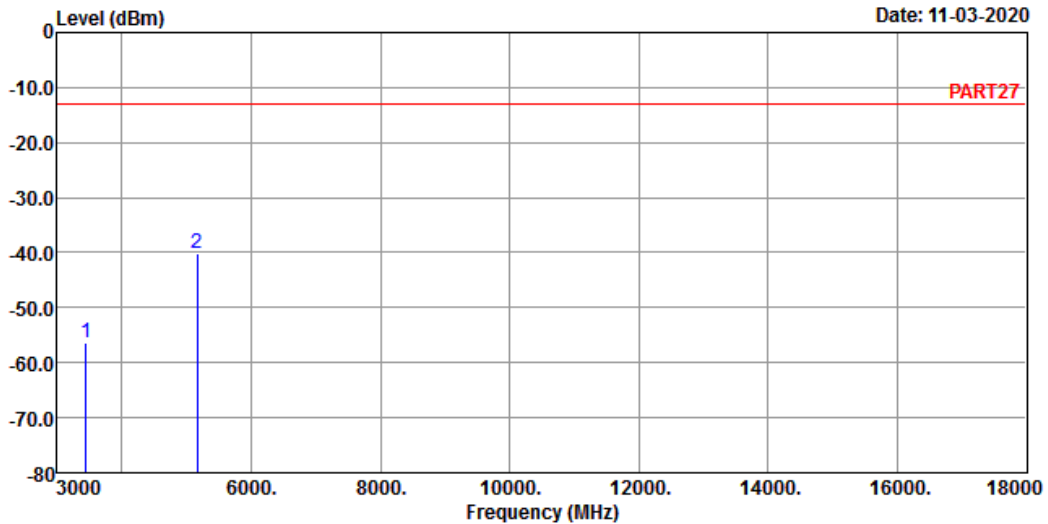
Channel Bandwidth: 20 MHz / QPSK
 Low Channel



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

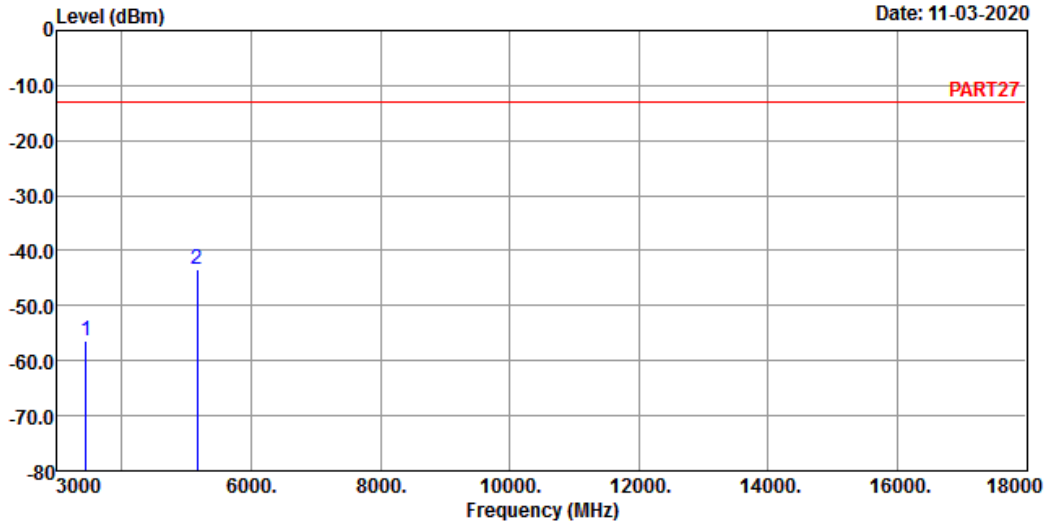
| | Freq | Level | Read Level | Limit | Line Factor | Over Limit | Remark |
|------|---------|--------|------------|--------|-------------|------------|--------|
| | MHz | dBm | dBm | dBm | dB | dB | |
| 1 | 3440.00 | -56.48 | -48.26 | -13.00 | -8.22 | -43.48 | Peak |
| 2 pp | 5160.00 | -40.05 | -38.14 | -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 | 5160.00 | -43.54 | -41.63 | -13.00 | -1.91 | -30.54 | Peak |

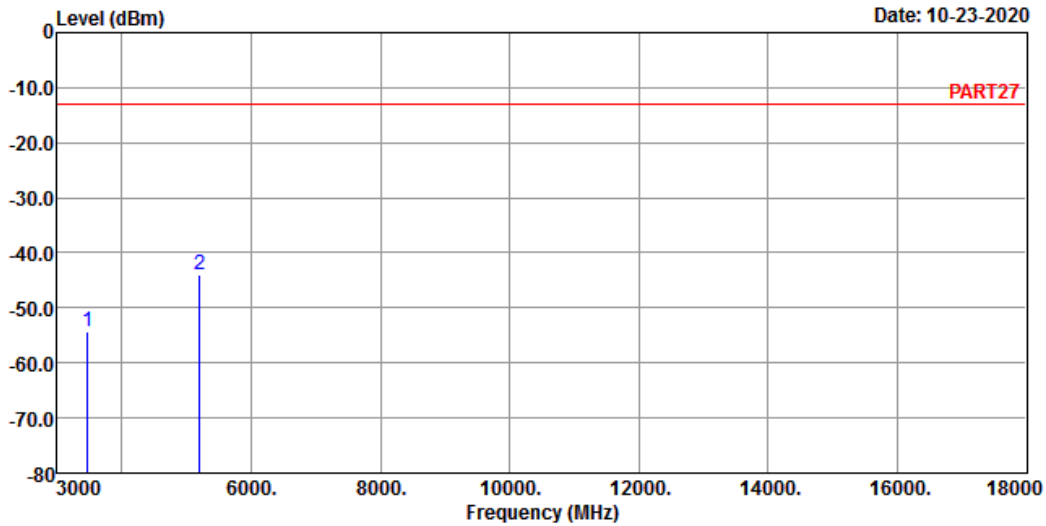
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



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

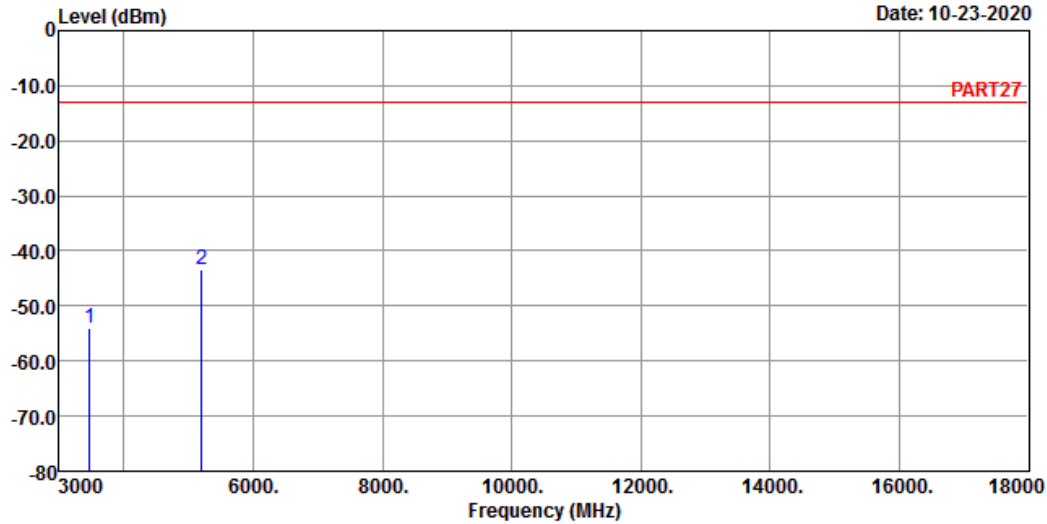
| | Freq | Level | Read Level | Limit | Line Factor | Over Limit | Remark |
|------|---------|--------|------------|--------|-------------|------------|--------|
| | MHz | dBm | dBm | dBm | dB | dB | |
| 1 | 3465.00 | -54.41 | -46.53 | -13.00 | -7.88 | -41.41 | Peak |
| 2 pp | 5197.50 | -43.95 | -41.88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

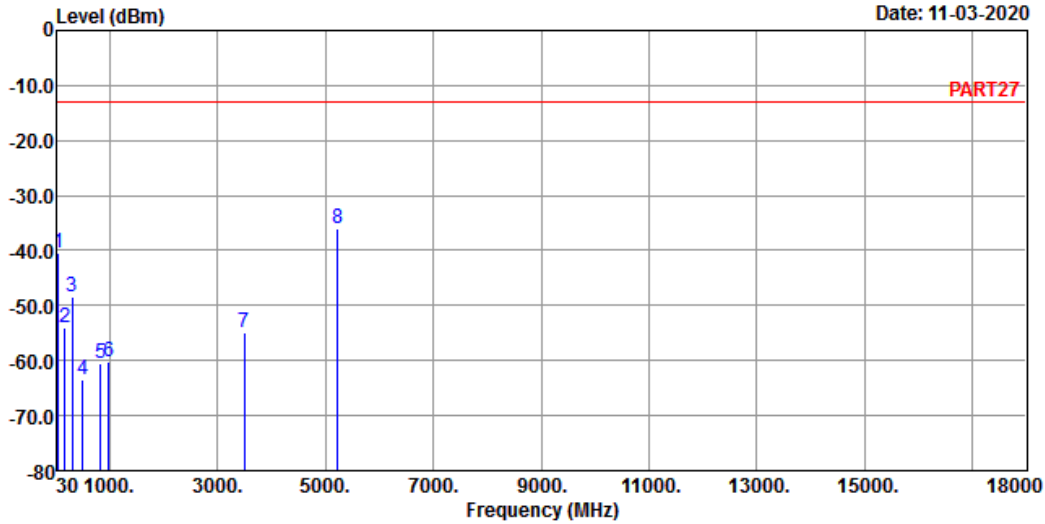


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 11-03-2020



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : LTE Band 4 QPSK_20M 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 | -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 |

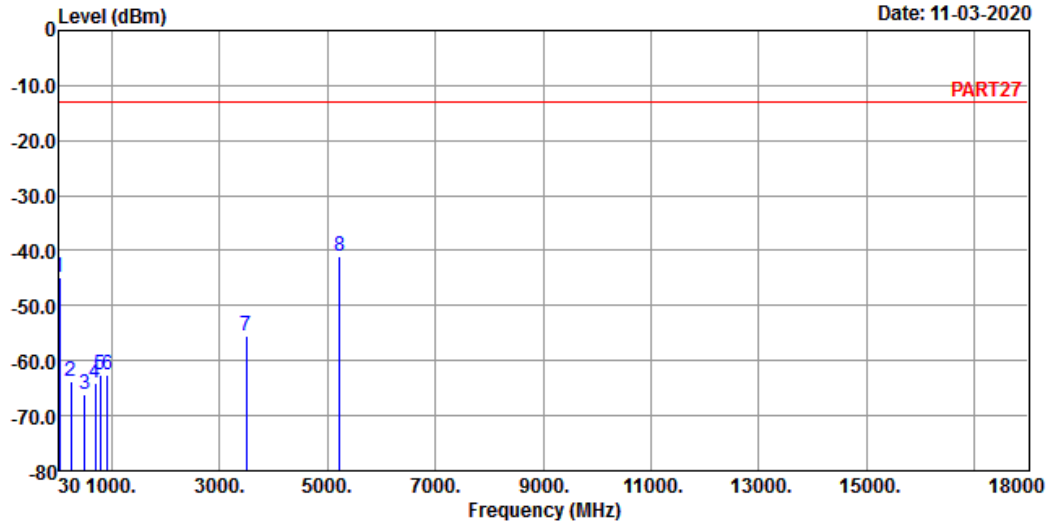


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 11-03-2020



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 Line | Over Factor | Over Limit | Remark |
|------|---------|--------|------------|------------|-------------|------------|--------|
| | MHz | dBm | dBm | dBm | dB | dB | |
| 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 |

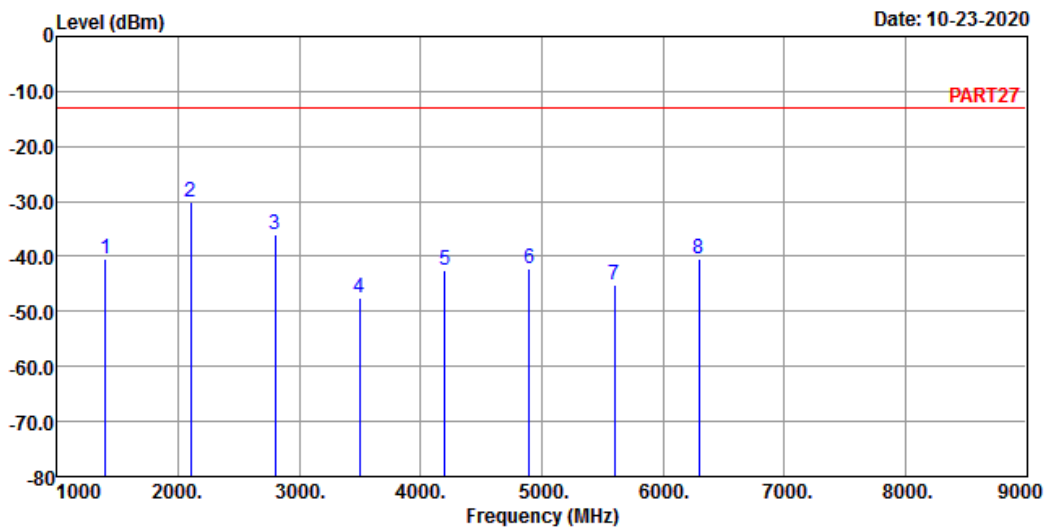
LTE Band 12
 Channel Bandwidth: 1.4 MHz / QPSK
 Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remark : 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 | -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 |

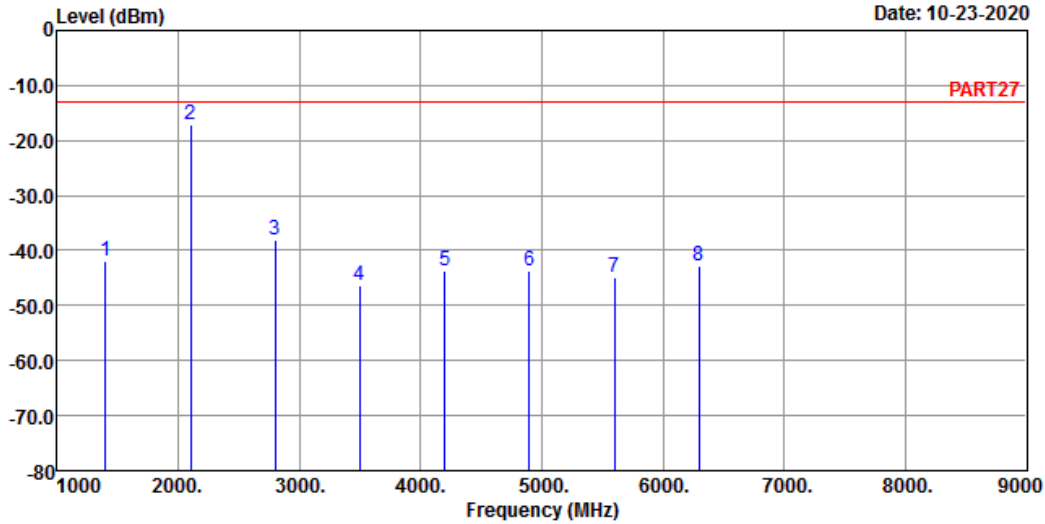


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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

| | Read | Limit | Over | | | |
|------|---------|--------|--------|--------|--------|-------------|
| Freq | Level | Level | Line | Factor | 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

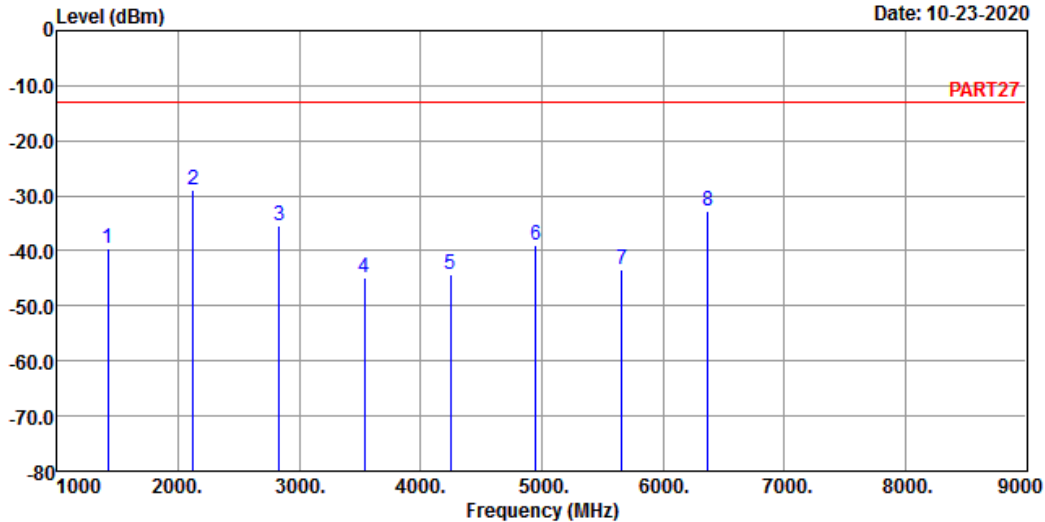


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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 |

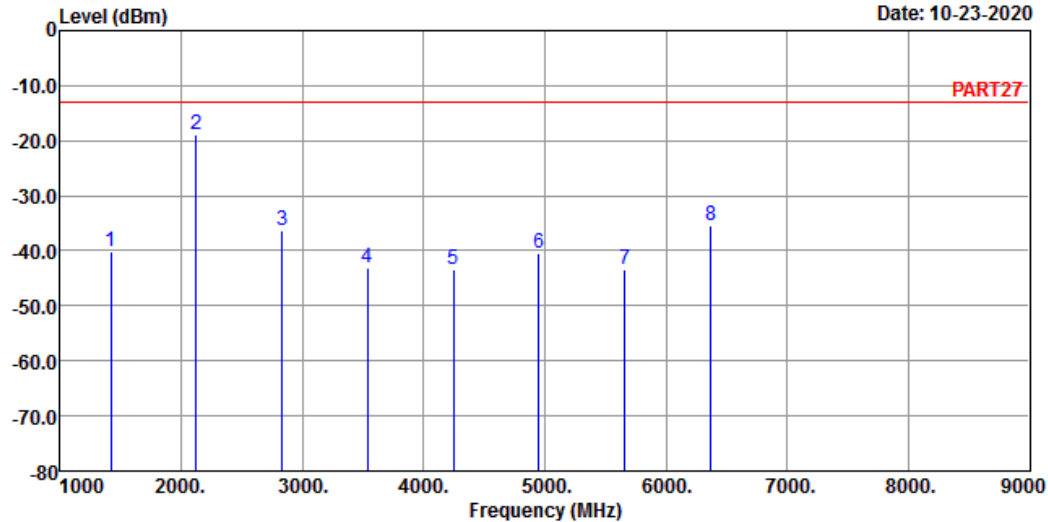


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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 | Over 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

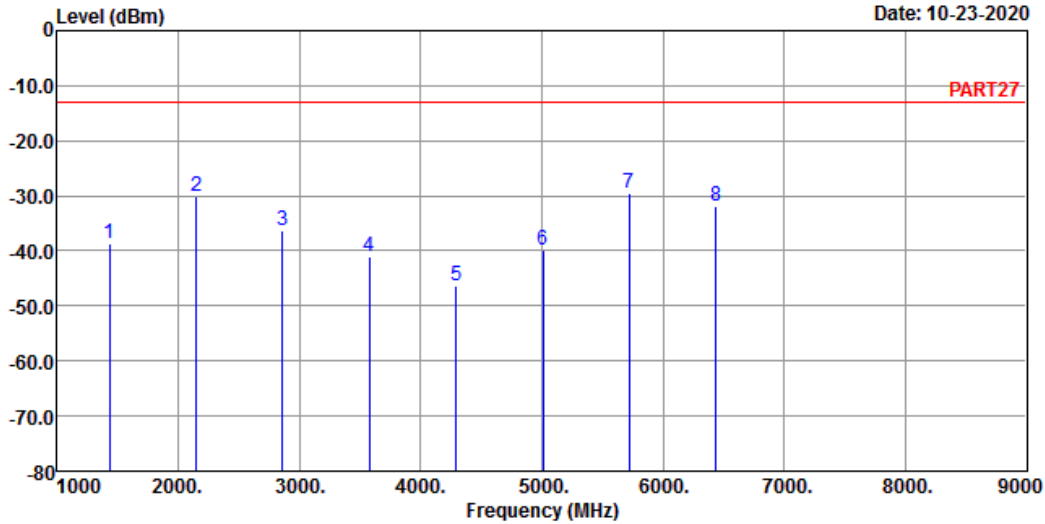


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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 |

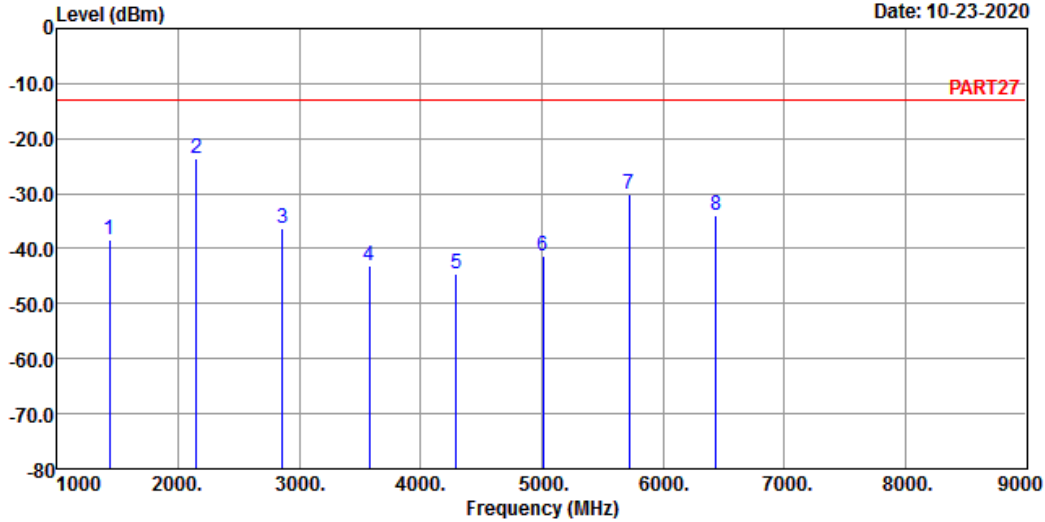


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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 | 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 |

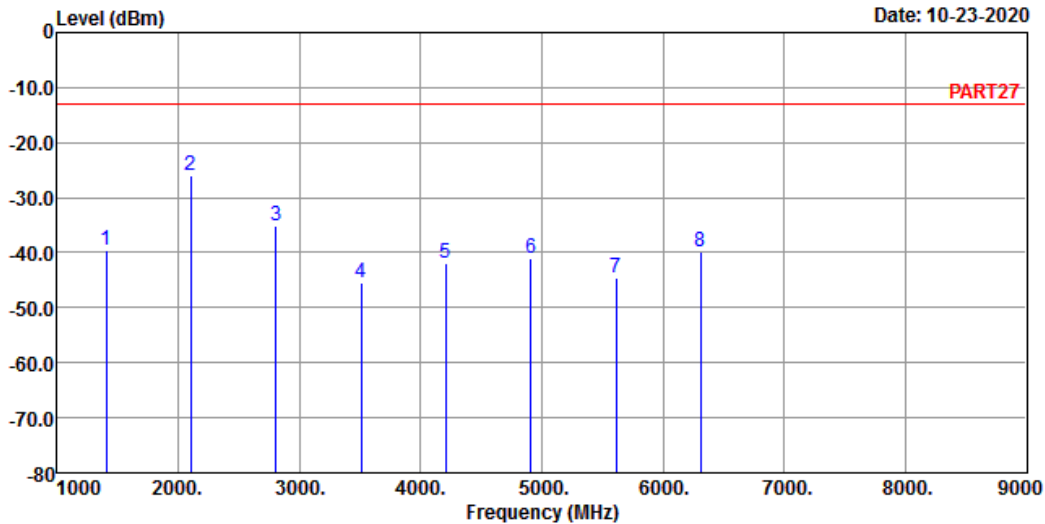
Channel Bandwidth: 5 MHz / QPSK
 Low Channel



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 |

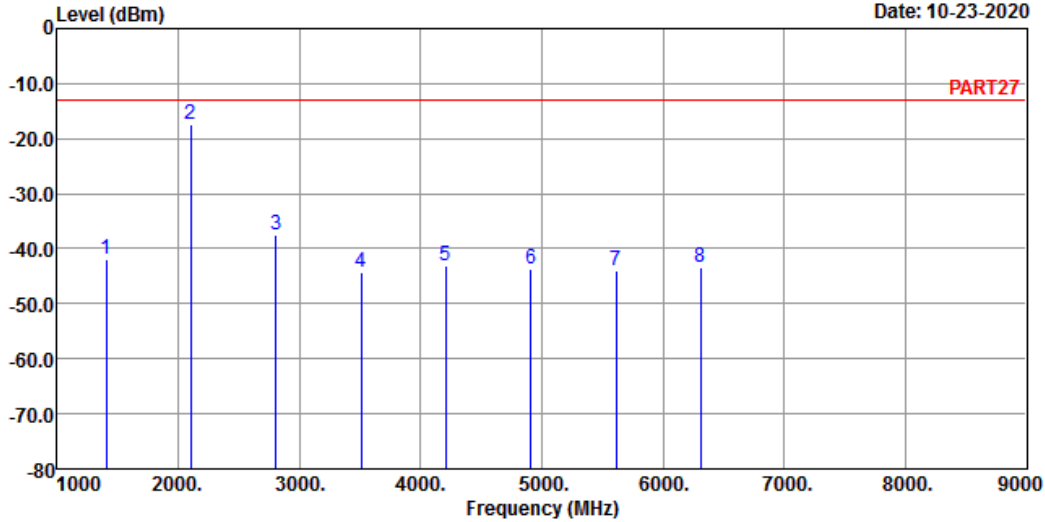


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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 | Over 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 |

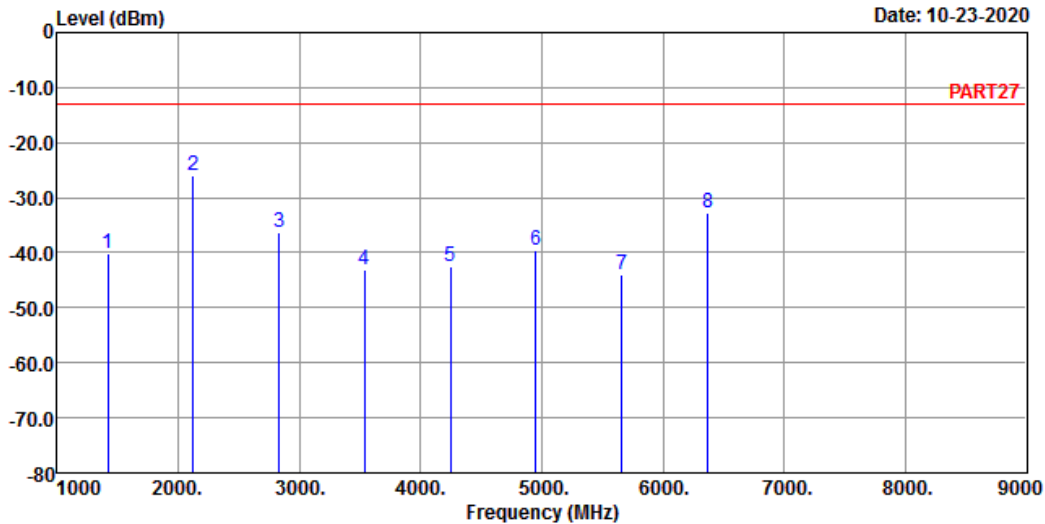
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



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 |

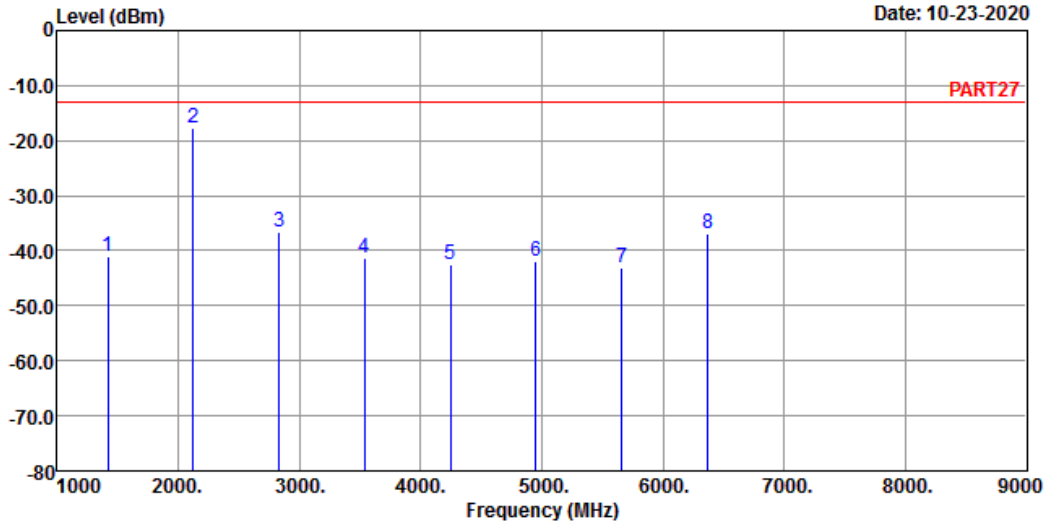


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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 | 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

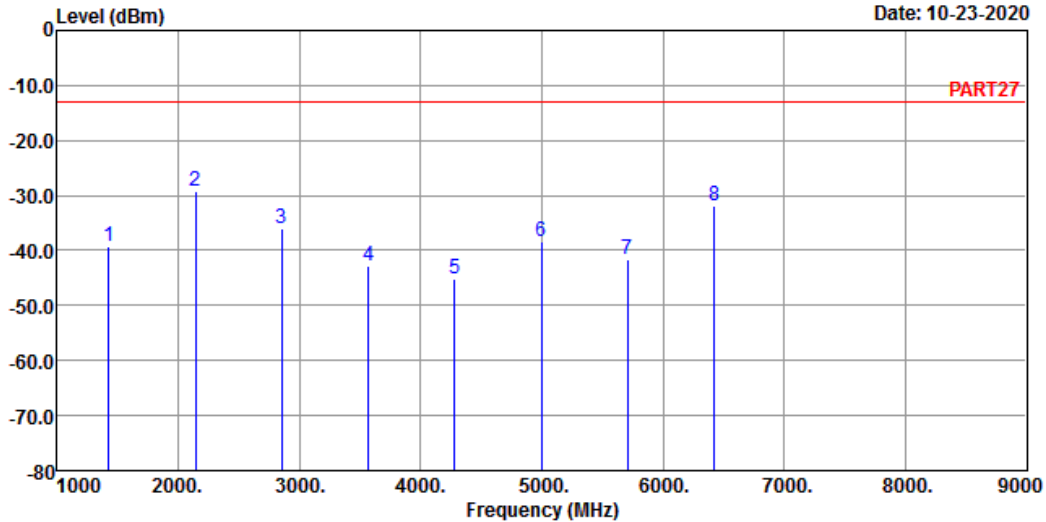


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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 |

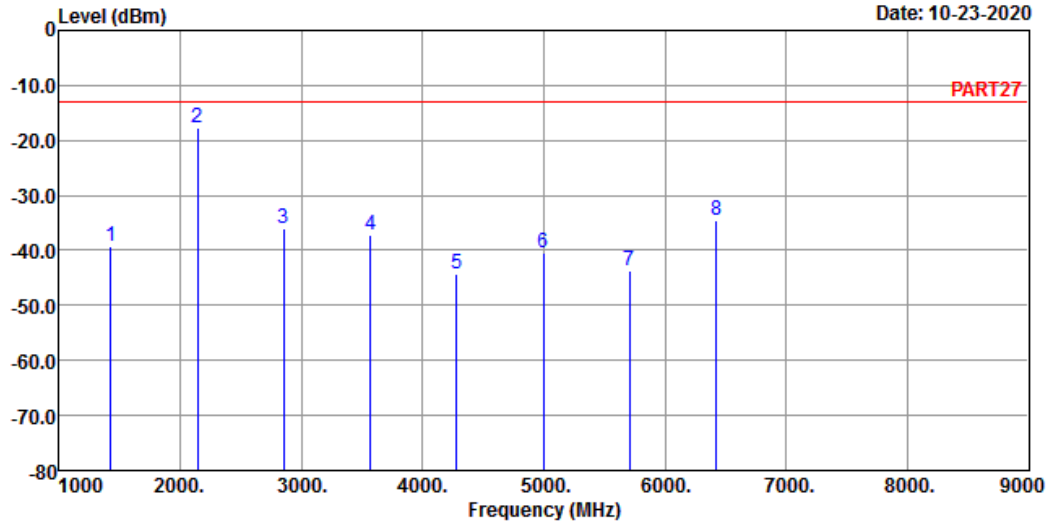


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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 |

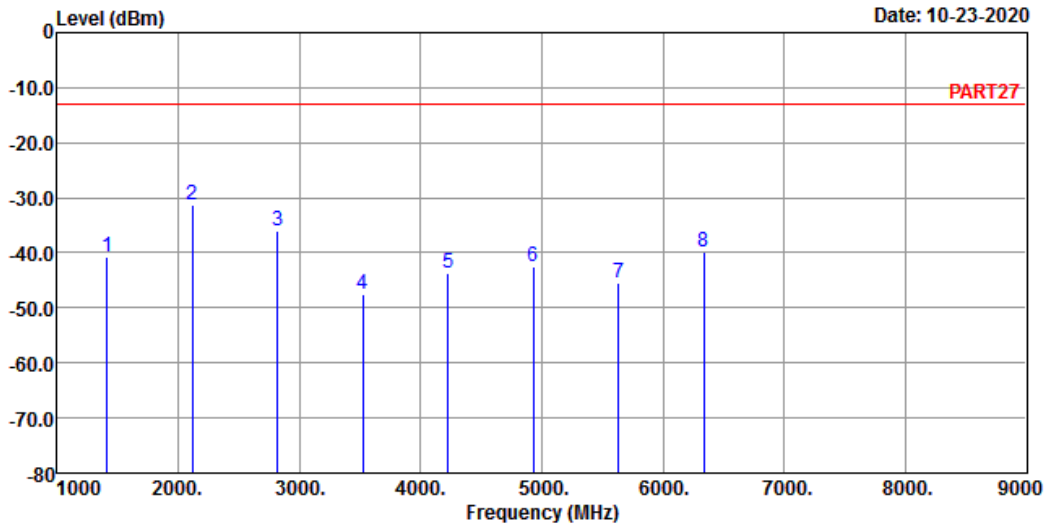
Channel Bandwidth: 10 MHz / QPSK
 Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



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 |

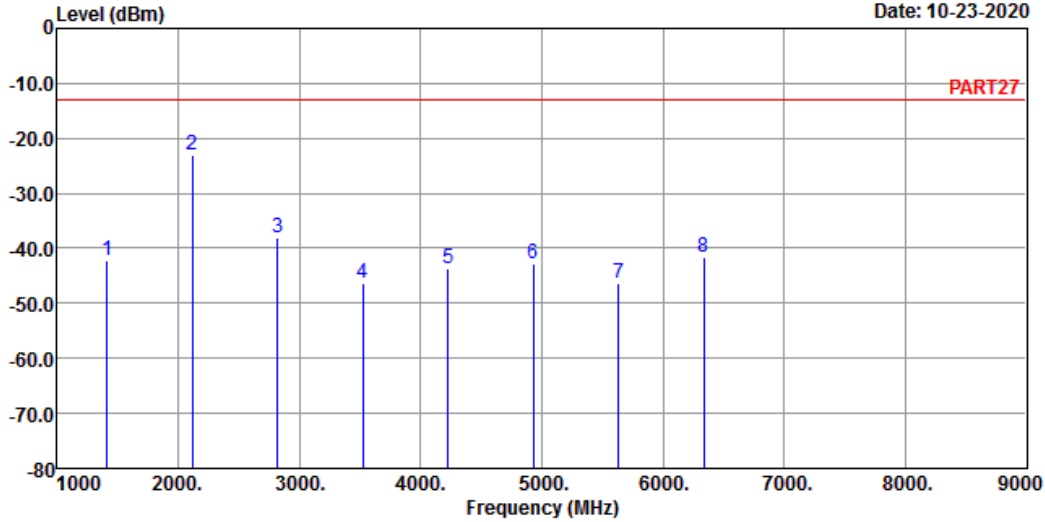


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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

| | Read | Limit | Over | | | |
|------|---------|--------|--------|--------|--------|-------------|
| Freq | Level | Level | Line | Factor | Limit | Remark |
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 | 1408.00 | -42.32 | -30.36 | -13.00 | -11.96 | -29.32 Peak |
| 2 | 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 |

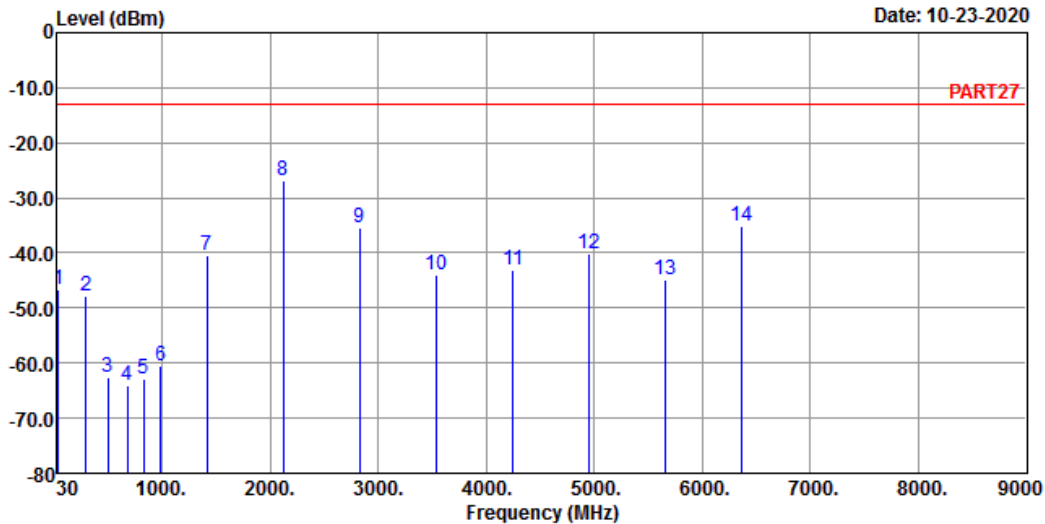
Middle Channel



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

| | Read | Limit | Over | | | |
|------|---------|--------|--------|--------|--------|-------------|
| Freq | Level | Level | Line | Factor | Limit | Remark |
| MHz | dBm | dBm | dBm | 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 |

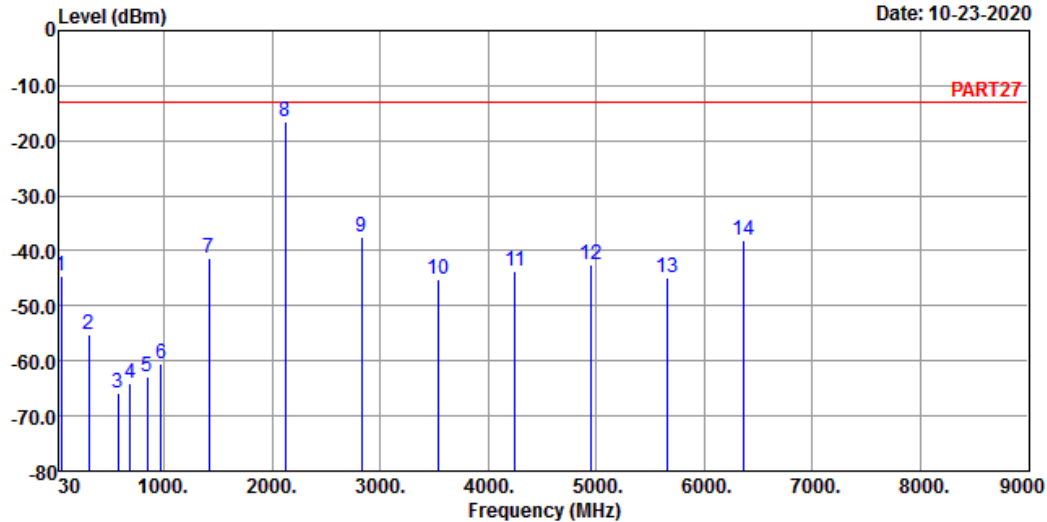


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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 | Over | Remark |
|------|---------|--------|------------|--------|--------|--------|--------|
| | MHz | dBm | dBm | dBm | dB | dB | |
| 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

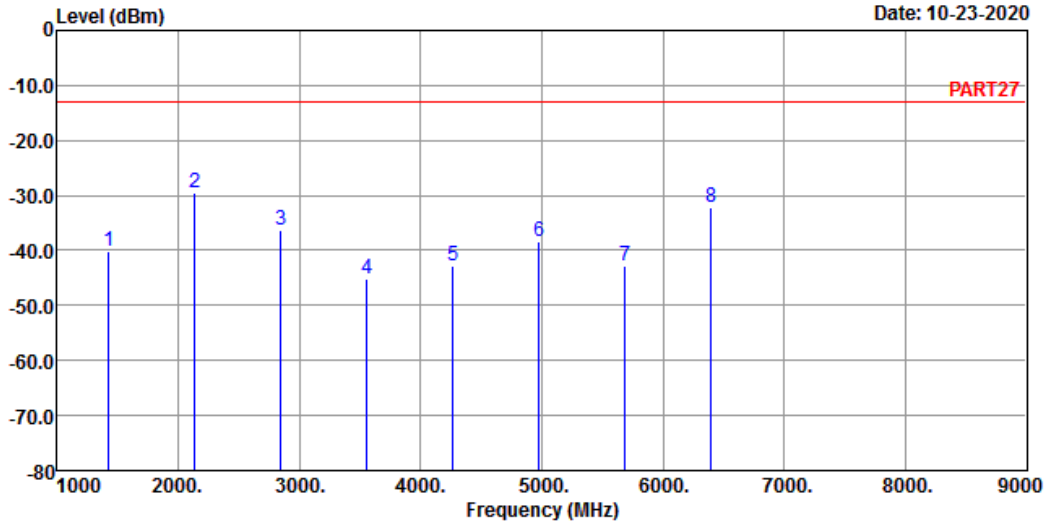


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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 |

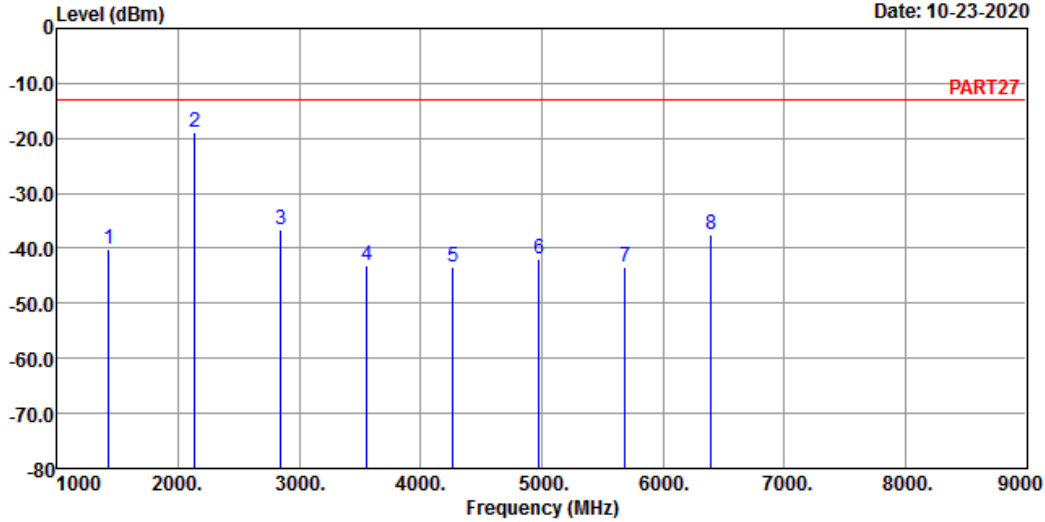


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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 | Over 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 |

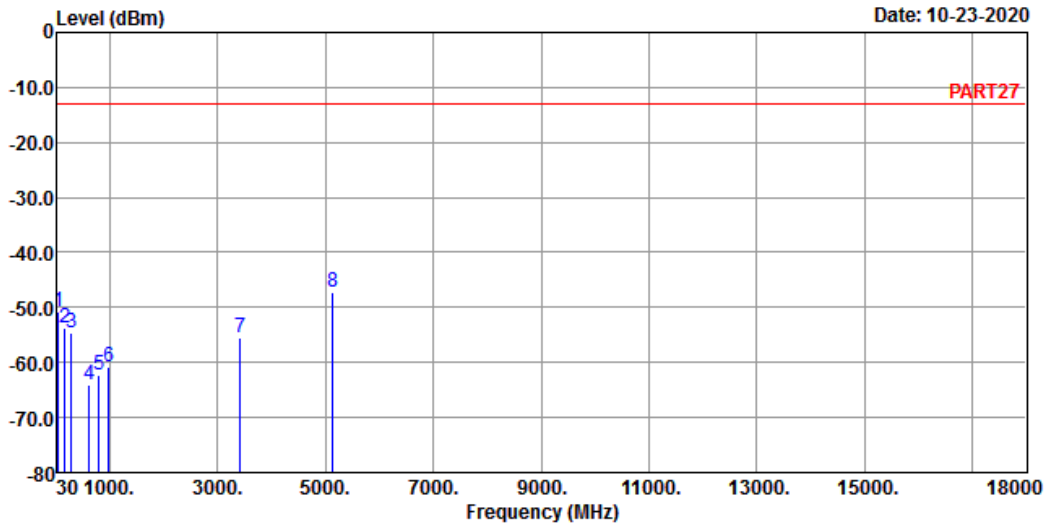
Mode D
WCDMA:
Low Channel



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 | Line Factor | Over Limit | Remark |
|------|---------|--------|------------|--------|-------------|------------|--------|
| | 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 |

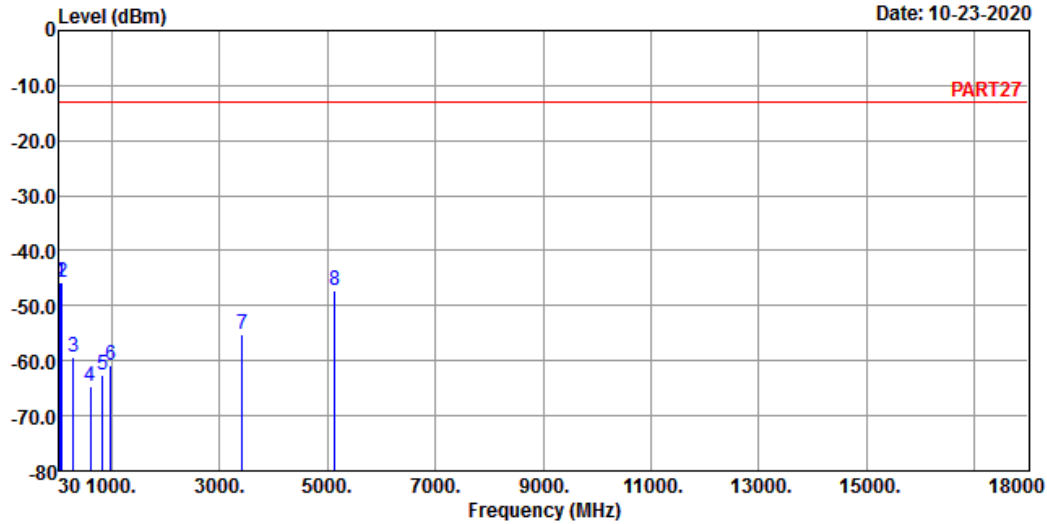


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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

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

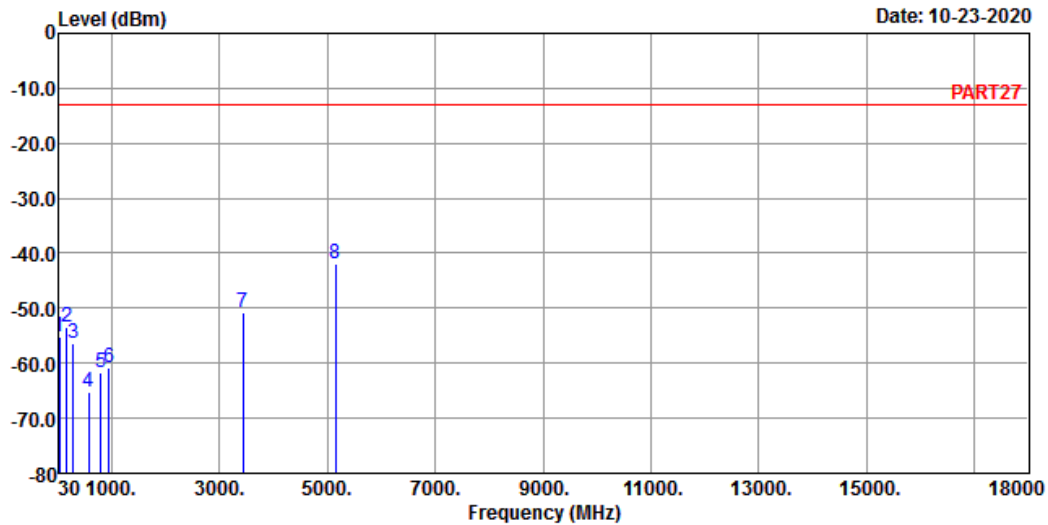
LTE Band 4
Channel Bandwidth: 20 MHz / QPSK
Low Channel



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

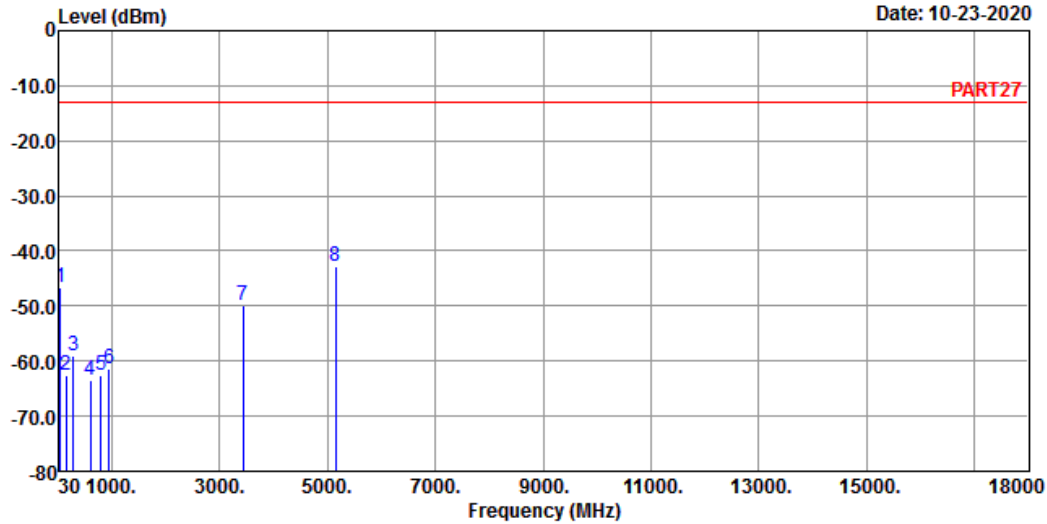
| | Freq | Level | Read Level | Limit | Line Factor | Over Limit | Remark |
|------|---------|--------|------------|--------|-------------|------------|--------|
| | MHz | dBm | dBm | dBm | dB | dB | |
| 1 | 37.76 | -55.10 | -54.66 | -13.00 | -0.44 | -42.10 | Peak |
| 2 | 162.89 | -53.52 | -48.47 | -13.00 | -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

| | Read | Limit | Over | | | |
|------|---------|--------|--------|--------|-------|-------------|
| Freq | Level | Level | Line | Factor | 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 |

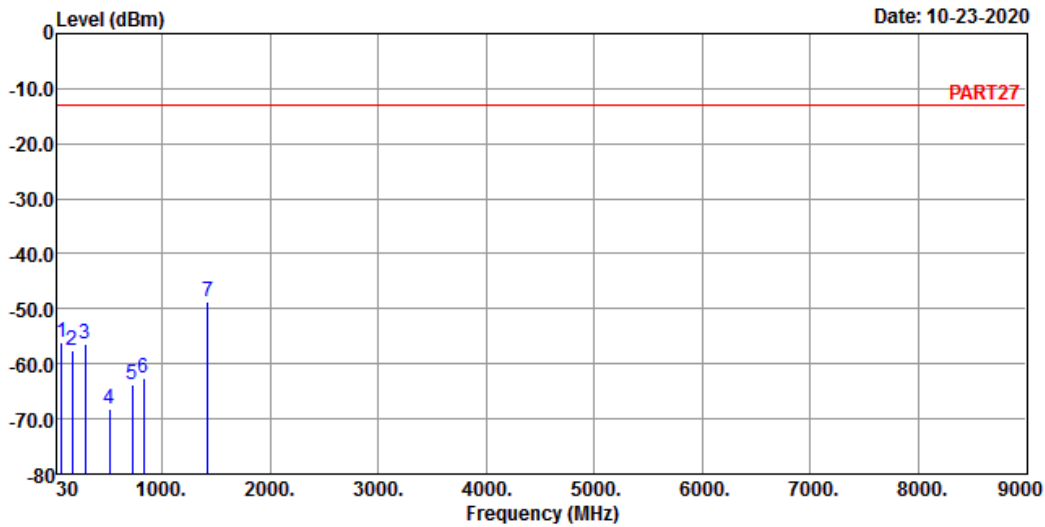
LTE Band 12
Channel Bandwidth: 10 MHz / QPSK
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



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 | Over | Remark |
|------|---------|--------|------------|--------|--------|--------|--------|
| | MHz | dBm | dBm | dBm | dB | dB | |
| 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 |

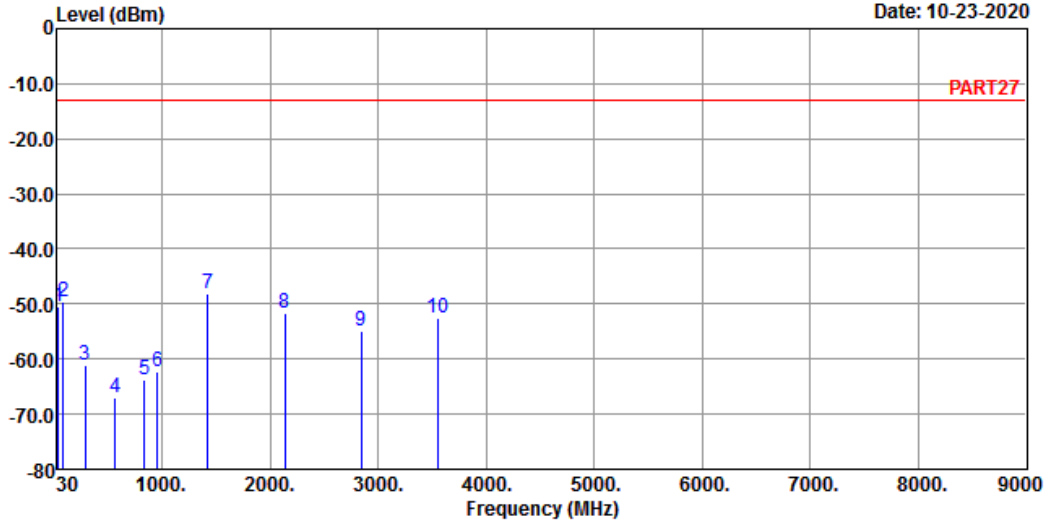


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

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 | Over Factor | Over 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:

Lin Kou EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

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Tel: 886-3-6668565

Fax: 886-3-6668323

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Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

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

--- END ---