

Variant FCC Test Report

(PART 27)

Report No.: RF170426C41A-2

FCC ID: MSQZ01KDA

Test Model: ASUS_Z01KDA / ASUS_Z01KS

Received Date: Aug. 24, 2017

Test Date: Oct. 17, 2017

Issued Date: Nov. 14, 2017

Applicant: ASUSTek COMPUTER INC.

Address: 4F, No. 150, LI-TE Rd., PEITOU, TAIPEI 112, TAIWAN

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

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

Test Location (1): No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei Shan Hsiang, Taoyuan
Hsien 333, Taiwan, R.O.C.

Test Location (2): No.215, Sec. 3, Beixin Rd., Xindian Dist., New Taipei City 231, Taiwan,
R.O.C



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Release Control Record

| Issue No. | Description | Date Issued |
|----------------|------------------|---------------|
| RF170426C41A-2 | Original Release | Nov. 14, 2017 |

1 Certificate of Conformity

Product: ASUS Phone

Brand: ASUS

Test Model: ASUS_Z01KDA / ASUS_Z01KS


Sample Status: Production Unit

Applicant: ASUSTek COMPUTER INC.

Test Date: Oct. 17, 2017

Standards: FCC Part 27, Subpart C, M

This report is issued as a supplementary report to BV CPS report no.: RF170726C31-2. This report shall be used by combining with its original report.

Prepared by :  , **Date:** Nov. 14, 2017
Ivonne Wu / Supervisor

Approved by :  , **Date:** Nov. 14, 2017
Dylan Chiou / Project Engineer

2 Summary of Test Results

| Applied Standard: FCC Part 27 & Part 2 | | | |
|--|-------------------------------------|--------|---|
| FCC Clause | Test Item | Result | Remarks |
| 2.1046 27.50(h) | Equivalent Isotropic Radiated Power | Pass | Meet the requirement of limit. |
| 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 |
| 2.1051 27.53(l) | Band Edge Measurements | N/A | Refer to Note |
| 2.1051 27.53(m) | Conducted Spurious Emissions | N/A | Refer to Note |
| 2.1053 27.53(m) | Radiated Spurious Emissions | Pass | Meet the requirement of limit. Minimum passing margin is -12.66 dB at 7605.00 MHz. |

Note: Only EIRP and radiated spurious emissions tests had been performed for the addendum. Refer to original report for other test data.

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 | 30 MHz ~ 200 MHz | 2.0153 dB |
| | 200 MHz ~1000 MHz | 2.0224 dB |
| Radiated Emissions above 1 GHz | 1 GHz ~ 18 GHz | 1.0121 dB |
| | 18 GHz ~ 40 GHz | 1.1508 dB |

2.2 Test Site and Instruments

| Description & Manufacturer | Model No. | Serial No. | Date of Calibration | Due Date of Calibration |
|--|-----------------|---|---------------------|-------------------------|
| Test Receiver Agilent Technologies | N9038A | MY52260177 | Jul. 05, 2017 | Jul. 04, 2018 |
| Spectrum Analyzer ROHDE & SCHWARZ | FSU43 | 101261 | Dec. 13, 2016 | Dec. 12, 2017 |
| HORN Antenna ETS-Lindgren | 3117 | 00143293 | Jun. 26, 2017 | Jun. 25, 2018 |
| Double Ridge Guide Horn Antenna EMCO | 3115 | 5619 | Dec. 15, 2016 | Dec. 14, 2017 |
| BILOG Antenna SCHWARZBECK | VULB 9168 | 9168-153 | Dec. 13, 2016 | Dec. 12, 2017 |
| HORN Antenna SCHWARZBECK | BBHA 9170 | 9170-480 | Dec. 14, 2016 | Dec. 13, 2017 |
| Fixed Attenuator Mini-Circuits | BW-N10W5+ | NA | Jul. 07, 2017 | Jul. 06, 2018 |
| MXG Vector signal generator Agilent | N5182B | MY53050430 | Oct. 19, 2016 | Oct. 18, 2017 |
| Preamplifier Agilent | 310N | 187226 | Jun. 23, 2017 | Jun. 22, 2018 |
| Preamplifier Agilent | 83017A | MY39501357 | Jun. 23, 2017 | Jun. 22, 2018 |
| RF signal cable ETS-LINDGREN | 5D-FB | Cable-CH1-01(R FC-SMS-100-SM S-120+RFC-SMS -100-SMS-400) | Jun. 26, 2017 | Jun. 25, 2018 |
| RF signal cable ETS-LINDGREN | 8D-FB | Cable-CH1-02(R FC-SMS-100-SM S-24) | Jun. 26, 2017 | Jun. 25, 2018 |
| Software BV ADT | E3 8.130425b | NA | NA | NA |
| Antenna Tower MF | NA | NA | NA | NA |
| Turn Table MF | NA | NA | NA | NA |
| Antenna Tower & Turn Table Controller MF | MF-7802 | NA | NA | NA |
| Communications Tester-Wireless Agilent | 8960 Series 10 | MY53201073 | Jun. 28, 2017 | Jun. 27, 2019 |
| Radio Communication Analyzer Anritsu | MT8820C | 6201300640 | Aug. 16, 2017 | Aug. 15, 2019 |

- Note: 1. The calibration interval of the above test instruments is 12 / 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HsinTien Chamber 1.
3. The horn antenna and preamplifier (model: 83017A) are used only for the measurement of emission frequency above 1 GHz if tested.
4. The FCC Designation Number is TW0011. The number will be varied with the Lab location and scope as attached.
5. The IC Site Registration No. is IC7450I-1.

3 General Information

3.1 General Description of EUT

| | | |
|----------------------------|---|---------------------|
| Product | ASUS Phone | |
| Brand | ASUS | |
| Test Model | ASUS_Z01KDA / ASUS_Z01KS | |
| SKU | Operator-3CA | |
| Status of EUT | Production Unit | |
| Power Supply Rating | 5 Vdc or 9 Vdc (adapter) 3.85 Vdc (Li-ion battery) | |
| Modulation Type | QPSK, 16QAM | |
| Frequency Range | LTE Band 7 (Channel Bandwidth: 5 MHz) | 2502.5 ~ 2567.5 MHz |
| | LTE Band 7 (Channel Bandwidth: 10 MHz) | 2505 ~ 2565 MHz |
| | LTE Band 7 (Channel Bandwidth: 15 MHz) | 2507.5 ~ 2562.5 MHz |
| | LTE Band 7 (Channel Bandwidth: 20 MHz) | 2510 ~ 2560 MHz |
| | LTE Band 41 (Channel Bandwidth: 5 MHz) | 2547.5 ~ 2652.5 MHz |
| | LTE Band 41 (Channel Bandwidth: 10 MHz) | 2550.5 ~ 2650.0 MHz |
| | LTE Band 41 (Channel Bandwidth: 15 MHz) | 2552.5 ~ 2647.5 MHz |
| | LTE Band 41 (Channel Bandwidth: 20 MHz) | 2555.0 ~ 2645.0 MHz |
| Max. EIRP Power | LTE Band 7 (Channel Bandwidth: 20 MHz) | 227.88 mW |
| Antenna Type | Fixed Internal Antenna | |
| Accessory Device | Refer to Note as below | |
| Data Cable Supplied | Refer to Note as below | |

Note:

1. This report is issued as a supplementary report to BV CPS report no.: RF170726C31-2. The difference compared with original report is adding 2nd source of LCD panel, front camera, and rear camera. Therefore, only EIRP and radiated spurious emissions tests had been performed for this report.

2. All models are listed as below.

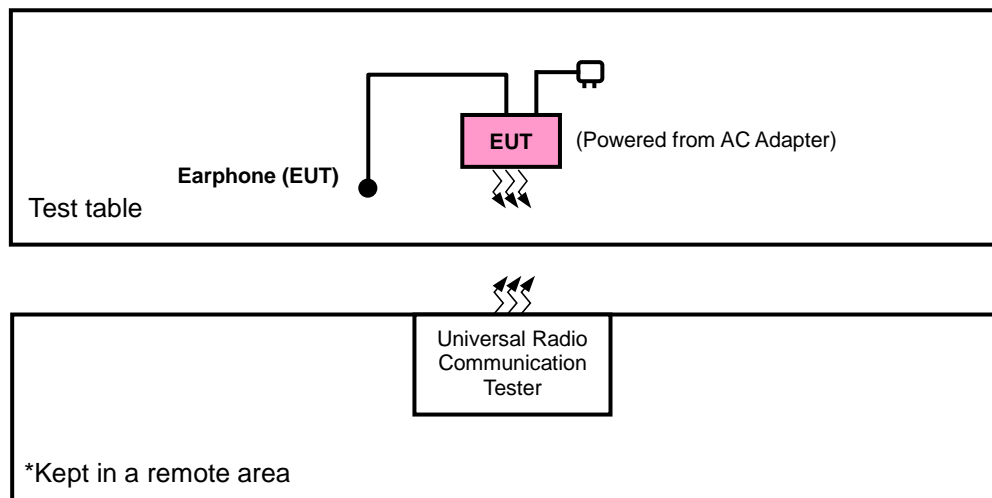
| Brand | Model | Difference |
|-------|-------------|------------|
| ASUS | ASUS_Z01KDA | Dual SIM |
| | ASUS_Z01KS | Single SIM |

* Since the difference doesn't affect the test result, only ASUS_Z01KDA was chosen for the final test.

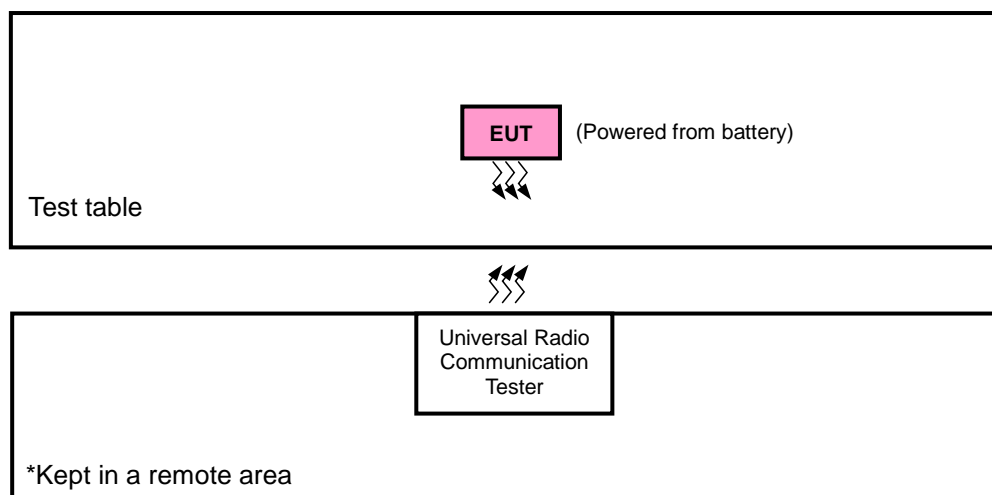
3. The EUT's accessories list refers to Ext. Pho.
4. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 Configuration of System under Test

<Radiated Emission Test>



<E.I.R.P. Test>



3.2.1 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units.

3.3 Test Mode Applicability and Tested Channel Detail

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

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

| Band | EIRP | Radiated Emission |
|------------|---------|-------------------|
| LTE Band 7 | Z-plane | Z-axis |

LTE Band 7

| EUT Configure Mode | Test Item | Available Channel | Tested Channel | Channel Bandwidth | Modulation | Mode |
|--------------------|-------------------|-------------------|--------------------|-------------------|-------------|--------------------|
| - | EIRP | 20850 to 21350 | 20850, 21100 21350 | 20 MHz | QPSK, 16QAM | 1 RB / 0 RB Offset |
| - | Radiated Emission | 20850 to 21350 | 20850, 21100 21350 | 20 MHz | QPSK | 1 RB / 0 RB Offset |

Test Condition:

| Test Item | Environmental Conditions | Input Power | Tested By |
|-------------------|--------------------------|----------------|---------------|
| EIRP | 25 deg. C, 65 % RH | 3.85 Vdc | Charles Hsiao |
| Radiated Emission | 25 deg. C, 65 % RH | 120 Vac, 60 Hz | Charles Hsiao |

3.4 EUT Operating Conditions

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

3.5 General Description of Applied Standards

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

FCC 47 CFR Part 2

FCC 47 CFR Part 27

KDB 971168 D01 Power Meas License Digital Systems v02r02

ANSI/TIA/EIA-603-D 2010

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

4 Test Types and Results

4.1 Output Power Measurement

4.1.1 Limits of Output Power Measurement

The radiated peak output power shall be according to the specific rule Part 27.50(h)(2) that "User stations are limited to 2 watts" and 27.50(i) specific that "Peak transmit power must be measure over any interval of continuous transmission using instrumentation calibration in terms of rms-equivalent voltage."

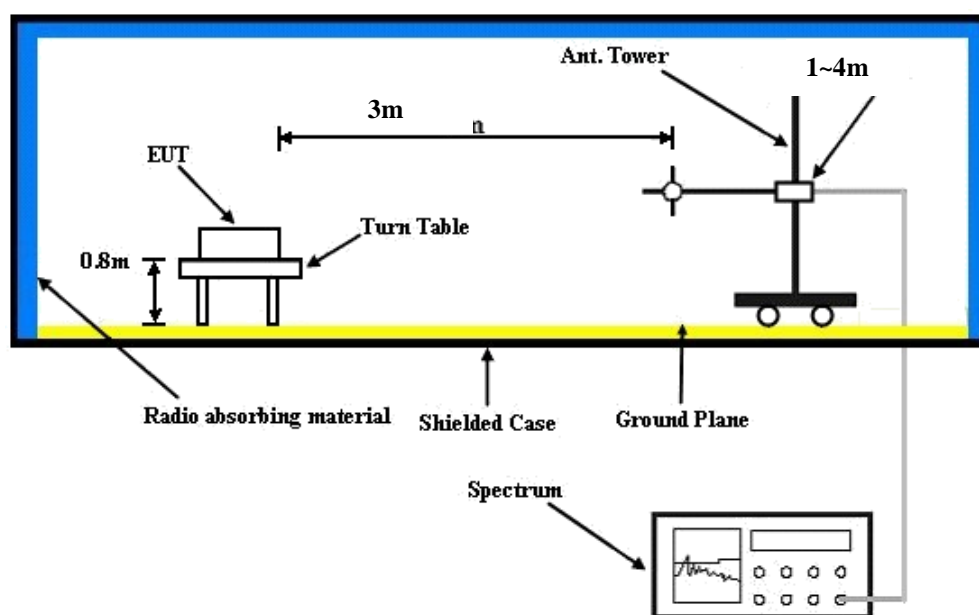
4.1.2 Test Procedures

EIRP Measurement:

- a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 10 MHz for LTE mode.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- c. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step b. Record the power level of S.G.
- d. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}.$

4.1.3 Test Setup

EIRP / ERP Measurement:



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

4.1.4 Test Results

EIRP Power (dBm)

| LTE Band 7 | | | | | | | |
|-----------------------------------|---------|-----------------|-----------|------------------------|------------|-----------|--------------------|
| Channel Bandwidth: 20 MHz / QPSK | | | | | | | |
| Plane | Channel | Frequency (MHz) | LVL (dBm) | Correction Factor (dB) | EIRP (dBm) | EIRP (mW) | Polarization (H/V) |
| Z | 20850.0 | 2510.0 | -20.68 | 44.16 | 23.48 | 222.84 | H |
| | 21100.0 | 2535.0 | -20.62 | 44.20 | 23.58 | 227.88 | |
| | 21350.0 | 2560.0 | -21.36 | 44.81 | 23.45 | 221.16 | |
| | 20850.0 | 2510.0 | -25.30 | 44.78 | 19.48 | 88.72 | V |
| | 21100.0 | 2535.0 | -24.45 | 44.09 | 19.64 | 92.00 | |
| | 21350.0 | 2560.0 | -25.29 | 44.72 | 19.43 | 87.70 | |
| Channel Bandwidth: 20 MHz / 16QAM | | | | | | | |
| Z | 20850.0 | 2510.0 | -21.62 | 44.16 | 22.54 | 179.47 | H |
| | 21100.0 | 2535.0 | -21.60 | 44.20 | 22.60 | 181.84 | |
| | 21350.0 | 2560.0 | -22.28 | 44.81 | 22.53 | 178.94 | |
| | 20850.0 | 2510.0 | -26.30 | 44.78 | 18.48 | 70.47 | V |
| | 21100.0 | 2535.0 | -25.64 | 44.09 | 18.45 | 69.95 | |
| | 21350.0 | 2560.0 | -26.20 | 44.72 | 18.52 | 71.12 | |

4.2 Radiated Emission Measurement

4.2.1 Limits of Radiated Emission Measurement

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $55 + 10 \log_{10}(P)$ dB. The limit of emission is equal to -25 dBm.

4.2.2 Test Procedure

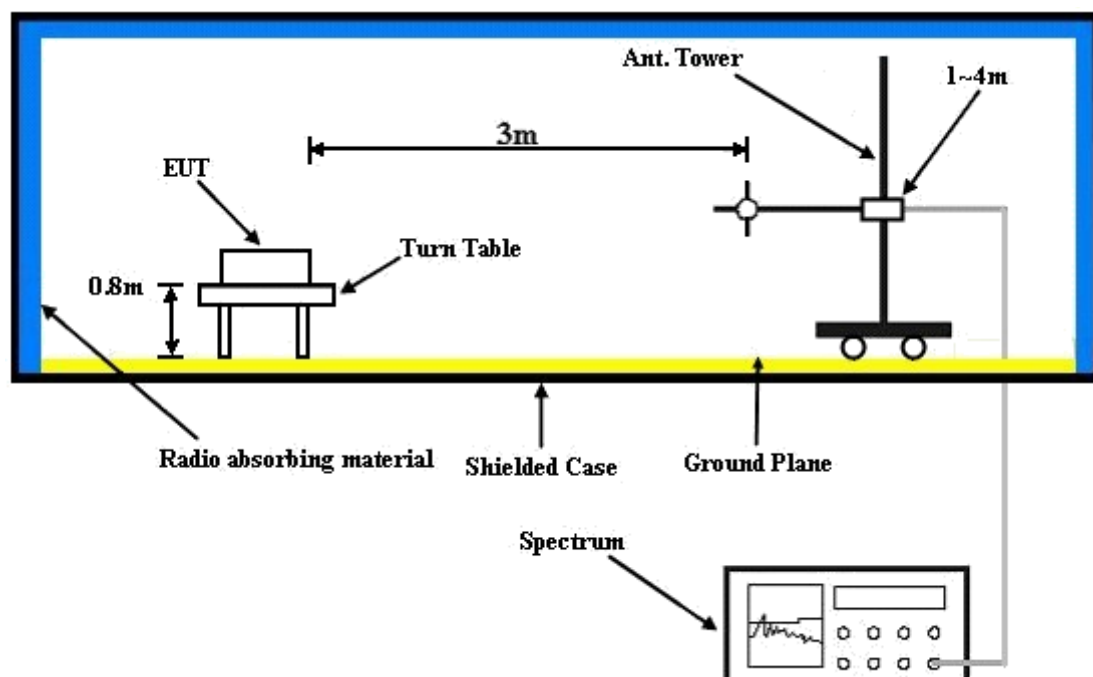
- Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from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

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

4.2.3 Deviation from Test Standard

No deviation.

4.2.4 Test Setup



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

4.2.5 Test Results

LTE Band 7

Channel Bandwidth: 20 MHz / QPSK

Low Channel

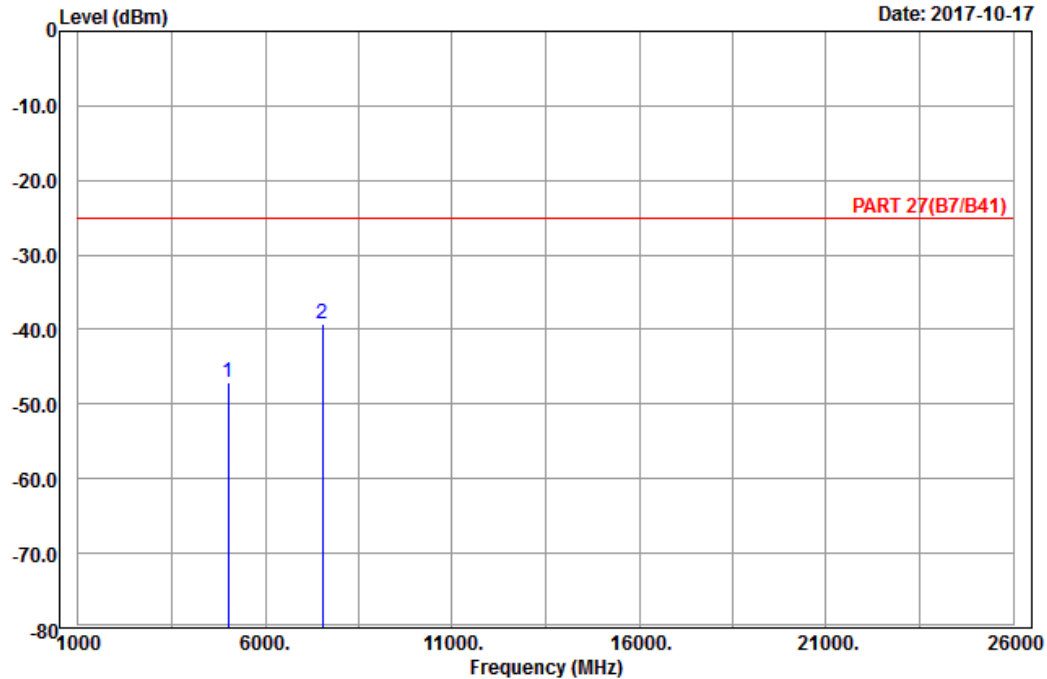


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A D T

Data: 9

Date: 2017-10-17



Site : 966 chamber 1

Condition: PART 27(B7/B41) Horizontal

Remark : LTE_Band 7_Link_CH20850

Tested by: Charles Hsiao

| | | Read | Limit | Over | | | |
|------|---------|--------|--------|--------|--------|--------|------|
| Freq | Level | Level | Line | Limit | Factor | Remark | |
| MHz | dBm | dBm | dBm | dB | dB | | |
| 1 | 5020.00 | -47.14 | -66.22 | -25.00 | -22.14 | 19.08 | Peak |
| 2 | 7530.00 | -39.32 | -62.17 | -25.00 | -14.32 | 22.85 | Peak |

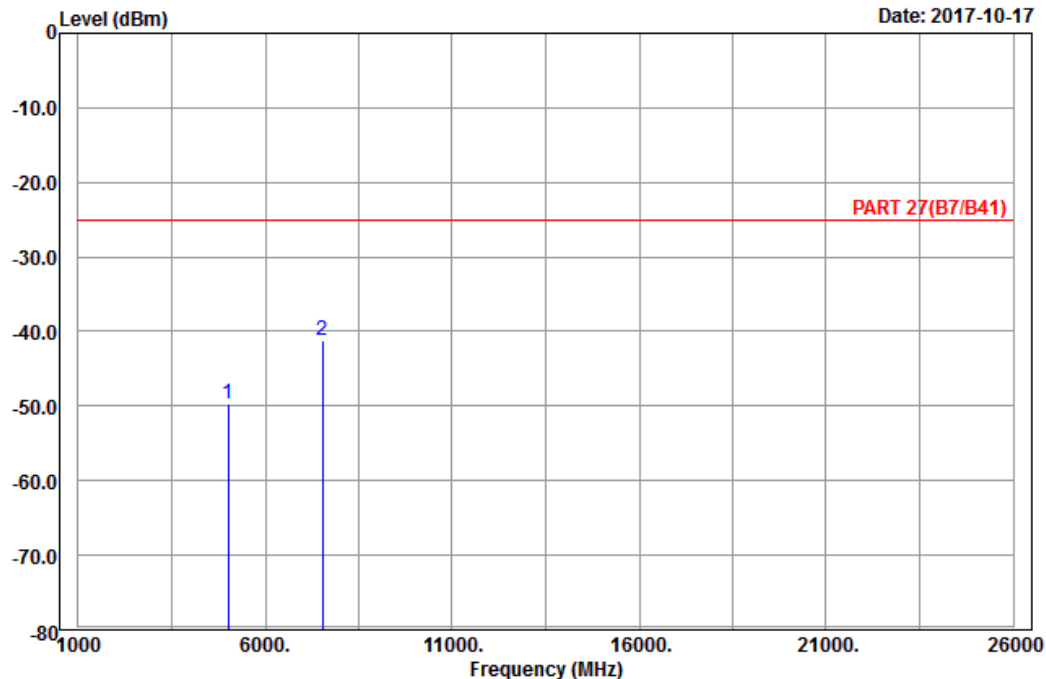


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Data: 10

Date: 2017-10-17



Site : 966 chamber 1
Condition: PART 27(B7/B41) Vertical
Remark : LTE_Band 7_Link_CH20850
Tested by: Charles Hsiao

| | | | Read | Limit | Over | | |
|------|---------|--------|--------|--------|--------|--------|--------|
| | Freq | Level | Level | Line | Limit | Factor | Remark |
| | MHz | dBm | dBm | dBm | dB | dB | |
| 1 | 5020.00 | -49.76 | -68.84 | -25.00 | -24.76 | 19.08 | Peak |
| 2 pp | 7530.00 | -41.14 | -63.99 | -25.00 | -16.14 | 22.85 | Peak |

Middle Channel

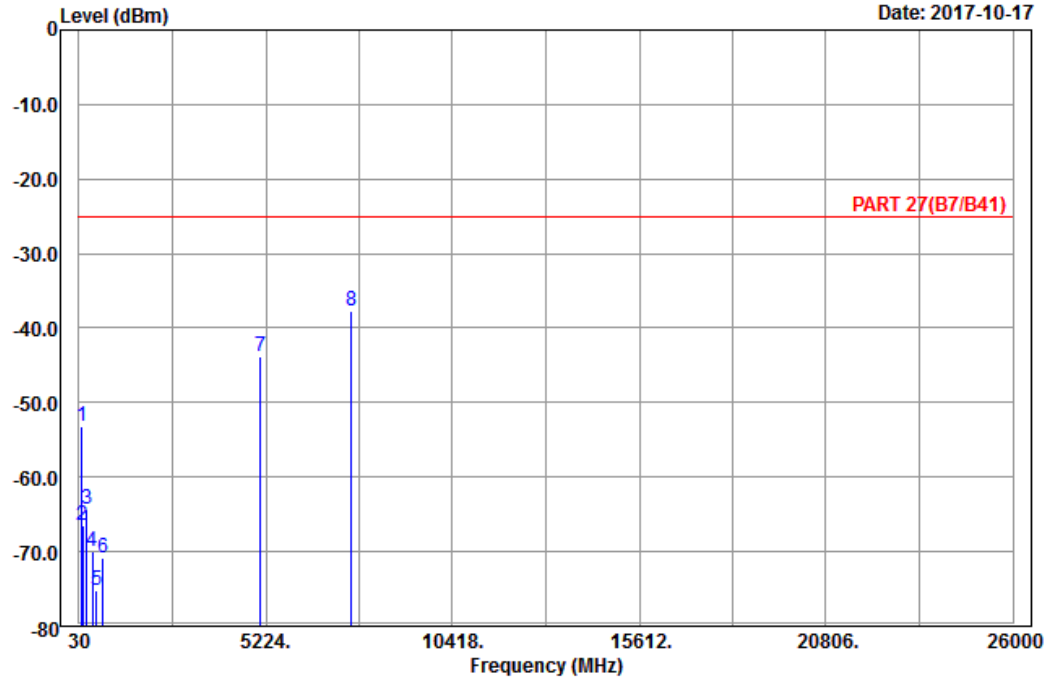


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Data: 13

Date: 2017-10-17



Site : 966 chamber 1

Condition: PART 27(B7/B41) Horizontal

Remark : LTE_Band 7_Link_CH21100

Tested by: Charles Hsiao

| | | | Read | Limit | Over | | |
|------|---------|--------|--------|--------|--------|--------|------|
| Freq | Level | Level | Line | Limit | Factor | Remark | |
| MHz | dBm | dBm | dBm | dB | dB | | |
| 1 | 98.04 | -53.23 | -43.00 | -25.00 | -28.23 | -10.23 | Peak |
| 2 | 142.59 | -66.51 | -58.75 | -25.00 | -41.51 | -7.76 | Peak |
| 3 | 240.33 | -64.30 | -58.66 | -25.00 | -39.30 | -5.64 | Peak |
| 4 | 395.20 | -69.97 | -66.97 | -25.00 | -44.97 | -3.00 | Peak |
| 5 | 509.30 | -75.10 | -70.46 | -25.00 | -50.10 | -4.64 | Peak |
| 6 | 707.40 | -70.82 | -70.31 | -25.00 | -45.82 | -0.51 | Peak |
| 7 | 5070.00 | -43.89 | -63.28 | -25.00 | -18.89 | 19.39 | Peak |
| 8 pp | 7605.00 | -37.66 | -60.65 | -25.00 | -12.66 | 22.99 | Peak |

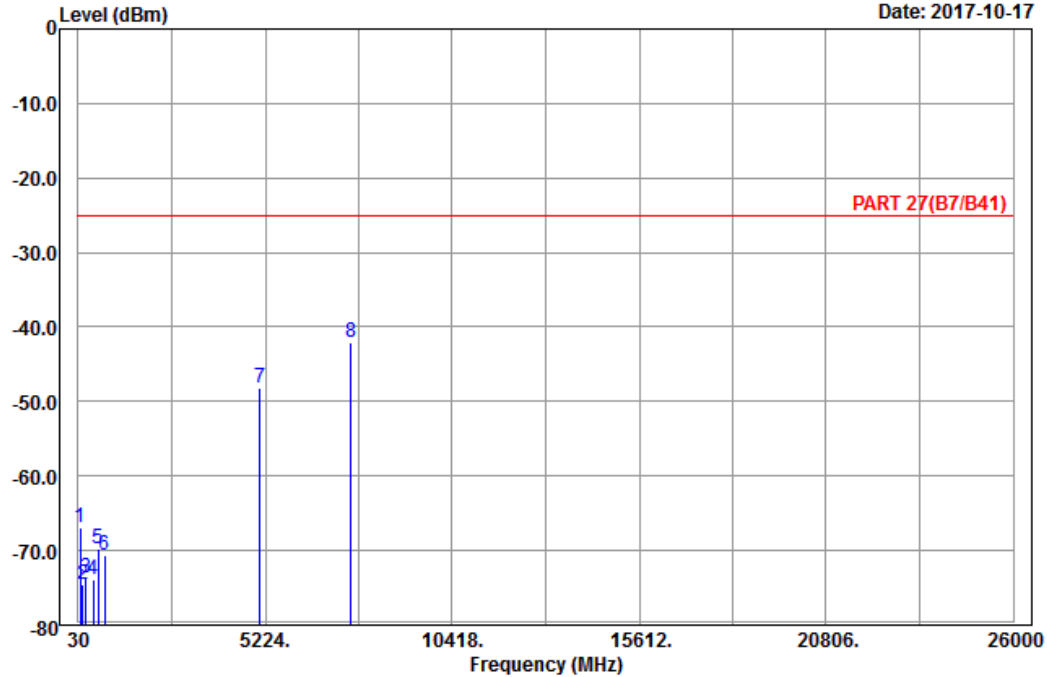


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Data: 14

Date: 2017-10-17



Site : 966 chamber 1
Condition: PART 27(B7/B41) Vertical
Remark : LTE_Band 7_Link_CH21100
Tested by: Charles Hsiao

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|------|---------|--------|------------|------------|------------|--------|--------|
| | MHz | dBm | dBm | dBm | dB | dB | |
| 1 | 89.13 | -67.03 | -56.25 | -25.00 | -42.03 | -10.78 | Peak |
| 2 | 156.36 | -74.54 | -66.76 | -25.00 | -49.54 | -7.78 | Peak |
| 3 | 234.12 | -73.58 | -67.85 | -25.00 | -48.58 | -5.73 | Peak |
| 4 | 455.40 | -73.83 | -69.82 | -25.00 | -48.83 | -4.01 | Peak |
| 5 | 587.00 | -69.77 | -69.63 | -25.00 | -44.77 | -0.14 | Peak |
| 6 | 754.30 | -70.59 | -69.60 | -25.00 | -45.59 | -0.99 | Peak |
| 7 | 5070.00 | -48.11 | -67.50 | -25.00 | -23.11 | 19.39 | Peak |
| 8 pp | 7605.00 | -42.03 | -65.02 | -25.00 | -17.03 | 22.99 | Peak |

High Channel

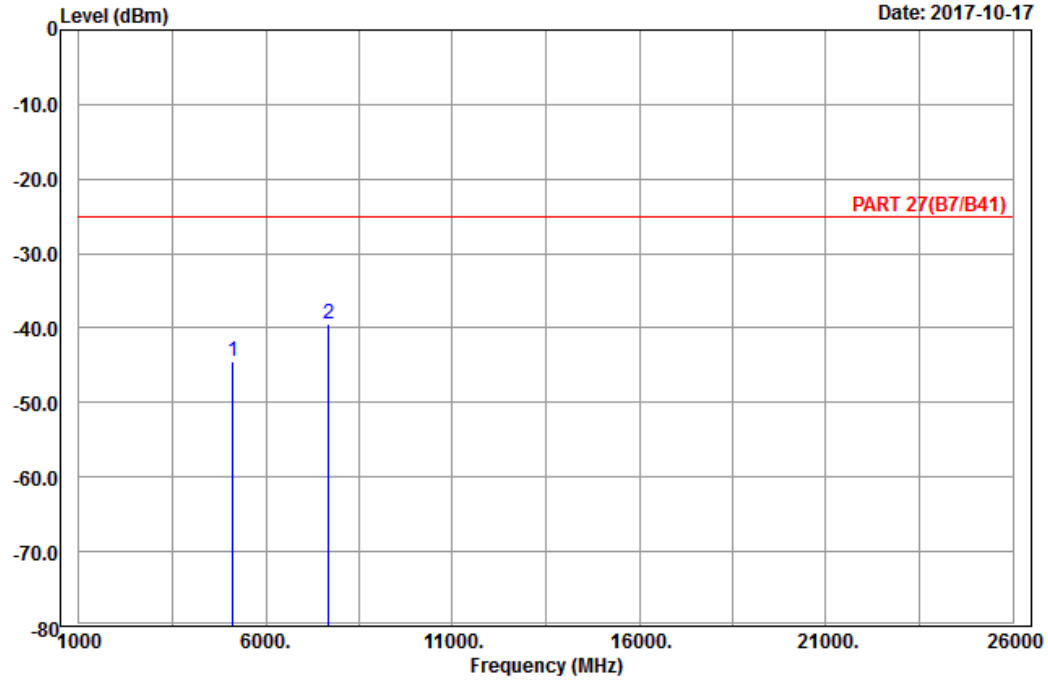


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A D T

Data: 9

Date: 2017-10-17



Site : 966 chamber 1

Condition: PART 27(B7/B41) Horizontal

Remark : LTE_Band 7_Link_CH21350

Tested by: Charles Hsiao

| | | | Read | Limit | Over | | |
|------|------------|--------|--------|--------|--------|--------|------|
| Freq | Level | Level | Line | Limit | Factor | Remark | |
| MHz | dBm | dBm | dBm | dB | dB | | |
| 1 | 5120.00 | -44.46 | -64.17 | -25.00 | -19.46 | 19.71 | Peak |
| 2 | pp 7680.00 | -39.36 | -62.48 | -25.00 | -14.36 | 23.12 | Peak |

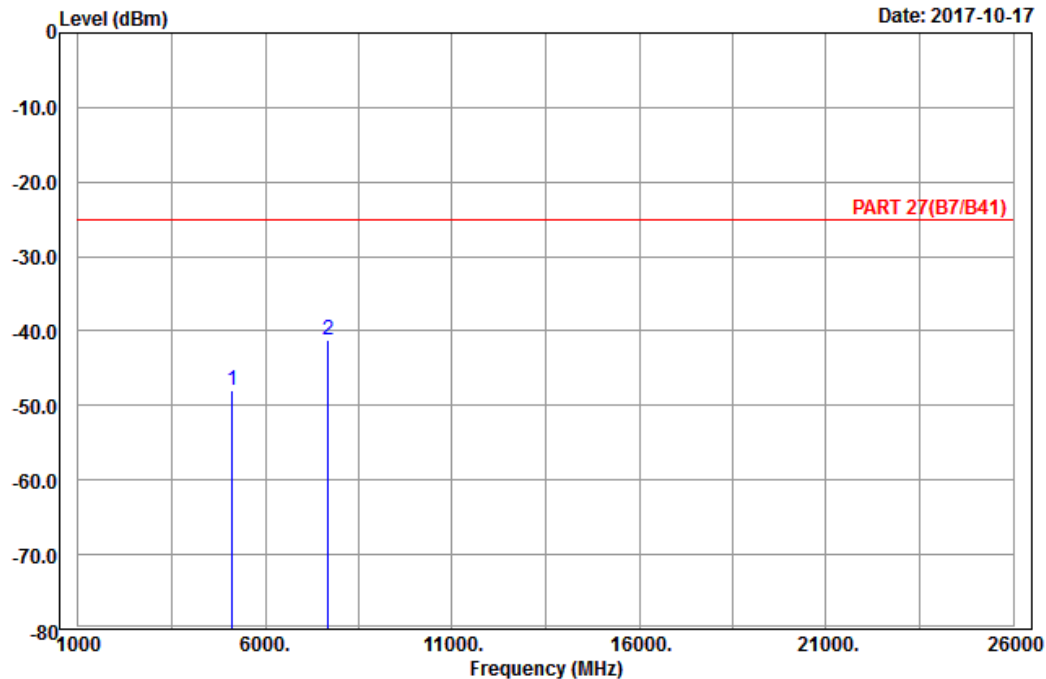


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A D T

Data: 10

Date: 2017-10-17



Site : 966 chamber 1
Condition: PART 27(B7/B41) Vertical
Remark : LTE_Band 7_Link_CH21350
Tested by: Charles Hsiao

| | | | Read | Limit | Over | | |
|------|---------|--------|--------|--------|--------|--------|--------|
| | Freq | Level | Level | Line | Limit | Factor | Remark |
| | MHz | dBm | dBm | dBm | dB | dB | |
| 1 | 5120.00 | -48.00 | -67.71 | -25.00 | -23.00 | 19.71 | Peak |
| 2 pp | 7680.00 | -41.17 | -64.29 | -25.00 | -16.17 | 23.12 | Peak |

5 Pictures of Test Arrangements

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

Appendix – Information on the Testing Laboratories

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

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

Linko EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety

Tel: 886-3-3183232

Fax: 886-3-3270892

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 ---