

# **RF Test Report**

### For

| Applicant Name: | Xwireless LLC                                 |
|-----------------|---|
| Address:        | 11565 Old Georgetown Road, Rockville, MD, USA |
| EUT Name:       | Tablet PC                                     |
| Brand Name:     | N/A   |
| Model Number:   | T10M Pro                                      |
|                 |   |

### **Issued By**

| Company Name:<br>Address: | <b>BTF Testing Lab (Shenzhen) Co., Ltd.</b><br>F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park,<br>Tantou Community, Songgang Street, Bao'an District, Shenzhen, |
|---------------------------|---|
| Address.                  | China   |
| Report Number:            | BTF230506R00206<br>FCC CFR Title 47 Part 2<br>FCC CFR Title 47 Part22   |
| Test Standards:           | FCC CFR Title 47 Part24<br>FCC CFR Title 47 Part27<br>FCC CFR Title 47 Part90   |
| FCC ID:                   | 2ADLJ-T10MPRO   |
| Test Conclusion:          | Pass  |
| Test Date:                | 2023-05-06 to 2023-05-19  |
| Date of Issue:            | 2023-05-22  |
| Prepared By:              | Elma Yang<br>Lab (Shenzhen)   |
|                           | elma.Yang / Project Engineer  |
| Date:                     | 2023-05-22  |

Approved By:

Date:

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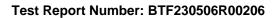
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Ryan.CJ / EMC Manager

2023-05-22



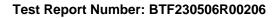
| Revision History |                       |  |  |
|------------------|-----------------------|--|--|
| Version          | Issue Date            | Revisions Content  |  |
| R_V0             | 2023-05-22            | Original   |  |
|                  |                       |  |  |
| Note:            | Once the revision has | Once the revision has been made, then previous versions reports are invalid. |  |





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### 1. Introduction

### 1.1 Identification of Testing Laboratory

| Company Name: | BTF Testing Lab (Shenzhen) Co., Ltd.  |  |
|---------------|---|--|
| Address:      | F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China |  |
| Phone Number: | +86-0755-23146130   |  |
| Fax Number:   | +86-0755-23146130   |  |

### **1.2 Identification of the Responsible Testing Location**

| Test Location:           | BTF Testing Lab (Shenzhen) Co., Ltd.  |  |
|--------------------------|---|--|
| Address:                 | F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China   |  |
| Description:             | All measurement facilities used to collect the measurement data are located at F101,201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China |  |
| FCC Registration Number: | 518915  |  |
| Designation Number:      | CN1330  |  |

### **1.3 Laboratory Condition**

| Ambient Temperature:       | 20°C to 35°C       |
|----------------------------|--------------------|
| Ambient Relative Humidity: | 45% to 55%         |
| Ambient Pressure:          | 100 kPa to 102 kPa |

### **1.4 Announcement**

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
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- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.



# 2. Product Information

### 2.1 Application Information

| Company Name: | Xwireless LLC                                 |
|---------------|---|
| Address:      | 11565 Old Georgetown Road, Rockville, MD, USA |

### 2.2 Manufacturer Information

| Company Name: | Xwireless LLC                                 |
|---------------|---|
| Address:      | 11565 Old Georgetown Road, Rockville, MD, USA |

#### 2.3 Factory Information

| Company Name: | ZTECH COMMNICATION(SZ) CO LTD   |
|---------------|---|
| Address:      | FL 7 BLOCK D BAO'AN ZHIGU INNOVATION PARK YIN'TIAN ROAD NO.4 XI'XIANG STR' BAO'AN DISTRICT SZ CHINA |

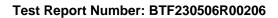
# 2.4 General Description of Equipment under Test (EUT)

| EUT Name              | Tablet PC |
|-----------------------|-----------|
| Under Test Model Name | T10M Pro  |



### 2.5 Technical Information

|                                   | 2G Network GSM/GPRS/EDGE 850/1900                              |                 |  |
|-----------------------------------|--|-----------------|--|
| Network and Wireless              | 3G Network WCDMA/HSDPA/HSUPA Band 2/5                          |                 |  |
| connectivity                      | 4G Network FDD LTE Band 2/4/5/12/13/25/26/41/66/71             |                 |  |
|                                   | Bluetooth 5.0(BR+EDR+LE), WiFi 2.4G, wifi5G                    |                 |  |
| The requirement for the following | ng technical information of the EUT was tested in this report: |                 |  |
|                                   | GSM/GPRS/EGPF  | RS 850/1900 MHz |  |
| Operating Bands                   | WCDMA/HSDPA/HSUPA Band 2/4/5                                   |                 |  |
| Operating bands                   | FDD LTE Band 2/4/5/12/13/25/26/66/71                           |                 |  |
|                                   | TDD LTE Band /4'   |                 |  |
|                                   | GPRS   | GMSK            |  |
|                                   | EGPRS  | 8PSK            |  |
| Madulation Type                   | WCDMA  | QPSK            |  |
| Modulation Type                   | HSDPA/HSUPA  | QPSK            |  |
|                                   | LTE  | QPSK            |  |
|                                   |  | 16QAM           |  |
|                                   | GSM/GPRS/EGPRS 850: 824.2 MHz ~ 848.8 MHz                      |                 |  |
|                                   | GSM/GPRS/EGPRS 1900: 1850.2 MHz ~ 1909.8 MHz                   |                 |  |
|                                   | WCDMA/HSDPA/HSUPA Band 2: 1852.4 MHz ~ 1907.6 MHz              |                 |  |
|                                   | WCDMA/HSDPA/HSUPA Band 5: 826.4 MHz ~ 846.6 MHz                |                 |  |
|                                   | FDD LTE Band 2: 1850.7 MHz ~ 1909.3 MHz                        |                 |  |
|                                   | FDD LTE Band 4: 1710.7 MHz ~ 1754.3 MHz                        |                 |  |
|                                   | FDD LTE Band 5: 824.7 MHz ~ 848.3 MHz                          |                 |  |
| TX Frequency Range                | FDD LTE Band 12: 699.7 MHz ~ 715.3 MHz                         |                 |  |
|                                   | FDD LTE Band 13:748.5 MHz ~ 753.5 MHz                          |                 |  |
|                                   | FDD LTE Band 25: 1850.7 MHz ~ 1914.3 MHz                       |                 |  |
|                                   | FDD LTE Band 26: 814.7 MHz ~ 823.3 MHz                         |                 |  |
|                                   | FDD LTE Band 26: 824.7 MHz ~ 848.3 MHz                         |                 |  |
|                                   | TDD LTE Band 41: 2498.5 MHz ~ 2687.5 MHz                       |                 |  |
|                                   | FDD LTE Band 66: 1710.7 MHz ~ 1779.3 MHz                       |                 |  |
|                                   | FDD LTE Band 71::619.5 MHz ~ 649.5 MHz                         |                 |  |
|                                   |  |                 |  |



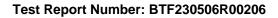


| Rx Frequency Range | GSM/GPRS/EGPRS 850: 869.2 MHz ~ 893.8 MHz<br>GSM/GPRS/EGPRS 1900: 1930.2 MHz ~ 1989.8 MHz<br>WCDMA/HSDPA/HSUPA Band 2: 1932.4 MHz ~ 1987.6 MHz<br>WCDMA/HSDPA/HSUPA Band 5: 871.4 MHz ~ 891.6 MHz<br>FDD LTE Band 2: 1930.7 MHz ~ 1989.3 MHz<br>FDD LTE Band 4: 2110.7 MHz ~ 2154.3 MHz<br>FDD LTE Band 5: 869.7 MHz ~ 893.3 MHz<br>FDD LTE Band 7: 2622.5 MHz ~ 2687.5 MHz<br>FDD LTE Band 12: 729.7 MHz ~ 745.3 MHz |
|--------------------|---|
|                    | FDD LTE Band 13: 779.5 MHz ~ 784.5 MHz<br>FDD LTE Band 25: 1930.7 MHz ~ 1994.3 MHz<br>FDD LTE Band 26: 869.7 MHz ~ 893.3 MHz<br>FDD LTE Band 26: 859.7 MHz ~ 868.3 MHz<br>TDD LTE Band 41: 2498.5 MHz ~ 2687.5 MHz<br>FDD LTE Band 66: 2110.7 MHz ~ 2179.3 MHz<br>FDD LTE Band 71:665.5 MHz ~ 695.5 MHz   |
| Power Class        | GPRS 850: 4<br>GPRS 1900: 1<br>EGPRS 850/1900: E2<br>WCDMA/HSDPA/HSUPA Band 2: 3<br>WCDMA/HSDPA/HSUPA Band 5: 3<br>FDD LTE Band 2: 3<br>FDD LTE Band 4: 3<br>FDD LTE Band 5: 3<br>FDD LTE Band 12: 3<br>FDD LTE Band 13: 3<br>FDD LTE Band 25: 3<br>FDD LTE Band 26: 3<br>TDD LTE Band 41: 3<br>FDD LTE Band 66: 3<br>FDD LTE Band 71: 3  |
| Multislot Class    | GPRS/EGPRS: 12  |
| Antenna Type       | PIFA Antenna  |



|                   | GSM850                              | GSM1900  | WCDMA B2 | WCDMA B5 |  |  |  |
|-------------------|-------------------------------------|----------|----------|----------|--|--|--|
|                   | 0.68dBi                             | 0.58dBi  | 0.68dBi  | 0.58dBi  |  |  |  |
|                   | LTE B2                              | LTE B4   | LTE B5   | LTE B12  |  |  |  |
| Antenna Gain      | 0.58dBi                             | 0.51dBi  | 0.58dBi  | 0.59dBi  |  |  |  |
|                   | LTE B13                             | LTE B25  | LTE B26  | LTE B41  |  |  |  |
|                   | 0.59dBi                             | 0.52dBi  | 0.68dBi  | 0.73dBi  |  |  |  |
|                   | LTE B66                             | LTE B71  |          |          |  |  |  |
|                   | 0.51dBi                             | 0.54dBi  |          |          |  |  |  |
|                   | GSM850: 30.21dB                     | m        |          |          |  |  |  |
|                   | GSM1900: 27.77dBm                   |          |          |          |  |  |  |
|                   | WCDMA Band V: 23.31dBm              |          |          |          |  |  |  |
|                   | WCDMA Band II: 23.01dBm             |          |          |          |  |  |  |
|                   | FDD LTE Band 2: 2                   | 23.25dBm |          |          |  |  |  |
|                   | FDD LTE Band 4: 2                   | 23.86dBm |          |          |  |  |  |
|                   | FDD LTE Band 5: 2                   | 22.70dBm |          |          |  |  |  |
| The Max RF Output | FDD LTE Band 12:                    | 23.70dBm |          |          |  |  |  |
| Power (EIRP/ERP)  | FDD LTE Band 13: 22.94dBm           |          |          |          |  |  |  |
|                   | FDD LTE Band 25: 23.17dBm           |          |          |          |  |  |  |
|                   | FDD LTE Band 26 (part22): 22.63 dBm |          |          |          |  |  |  |
|                   | FDD LTE Band 26 (part90): 22.48 dBm |          |          |          |  |  |  |
|                   | TDD LTE Band 41:                    | 25.31dBm |          |          |  |  |  |
|                   | FDD LTE Band 66:                    | 19.80dBm |          |          |  |  |  |
|                   | FDD LTE Band 71:                    | 22.88dBm |          |          |  |  |  |

Note: The EUT information are declared by manufacturer. For more detailed features description, please refer to the manufacturer's specifications or user's manual.





# 3. Summary of Test Results

### 3.1 Test Standards

| No. | Identity                 | Document Title   |
|-----|--------------------------|--|
| 1   | 47 CFR Part 2            | Frequency Allocations and Radio Treaty Matters;<br>General Rules and Regulations             |
| 2   | 47 CFR Part 22 Subpart H | Cellular Radiotelephone Service  |
| 3   | 47 CFR Part 24 Subpart E | Broadband PCS  |
| 4   | 47 CFR Part 27           | Miscellaneous Wireless Communications Services   |
| 5   | ANSI/TIA-603-E-2016      | Land Mobile FM or PM Communications Equipment<br>Measurement and Performance Standards       |
| 6   | KDB 971168 D01 v03r01    | Measurement Guidance for Certification of Licensed Digital<br>Transmitters                   |
| 7   | ANSI C63.26:2015         | IEEE/ANSI Standard for Compliance Testing of Transmitters Used in<br>Licensed Radio Services |
| 8   | 47 CFR Part 90           | PRIVATE LAND MOBILE RADIO SERVICES.  |



## 3.2 Summary of Test Result

| No. | Description                    | FCC Part No. | Test Verdict | Remark |
|-----|--------------------------------|--------------|--------------|--------|
| 1   | Conducted RF Output Power      | 2.1046       | Pass         |        |
|     |                                | 2.1046       |              |        |
|     |                                | 22.913(a)    |              |        |
| 2   | Effective (Isotropic) Radiated | 24.232(c)    | Deee         |        |
| 2   | Power                          | 27.50        | Pass         |        |
|     |                                | 90.635(b)    |              |        |
|     |                                | 90.542(a)    |              |        |
|     |                                | 2.1046       |              |        |
| 3   | Deckte Average Dedie           | 22.913(d)    | Dees         |        |
| 3   | Peak to Average Radio          | 24.232(d)    | Pass         | 100    |
|     |                                | 27.50(d)     |              |        |
|     |                                | 2.1049       |              |        |
|     |                                | 22.917(b)    |              |        |
| 4   | Occupied Bandwidth             | 24.238(b)    | Pass         |        |
|     |                                | 27.53        | 100 C        |        |
|     |                                | 90.209       |              |        |
|     |                                | 2.1055       |              |        |
|     |                                | 22.355       | Pass         |        |
| 5   | Frequency Stability            | 24.235       |              |        |
|     |                                | 27.54        |              |        |
|     |                                | 90.213       |              |        |
|     |                                | 2.1051       |              |        |
|     |                                | 22.917       |              |        |
| 6   | Spurious Emission at Antenna   | 24.238       | Pass         |        |
| 0   | Terminals                      | 27.53        | Pass         |        |
|     |                                | 90.691       |              |        |
|     |                                | 90.543       |              |        |
|     |                                | 2.1051       |              |        |
|     |                                | 22.917       |              |        |
| 7   | Band Edge                      | 24.238       | Pass         |        |
|     | Dana Luge                      | 27.53        | 1 435        |        |
|     |                                | 90.691       |              |        |
|     |                                | 90.543       |              |        |
|     |                                | 2.1053       |              |        |
|     |                                | 22.917       |              |        |
| o   | Field Strength of Spurious     | 24.238       | Deer         |        |
| 8   | Radiation                      | 27.53        | Pass         |        |
|     |                                | 90.691       |              |        |
|     |                                | 90.543       |              |        |



### 3.3 Uncertainty of Test

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2 and TR100 028-1/-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

| Measurement                     | Value   |
|---------------------------------|---------|
| RF output power, conducted      | 0.63 dB |
| Conducted spurious emissions    | 0.94 dB |
| Radiated emissions ( $<$ 1 GHz) | 4.12 dB |
| Radiated emissions (>1 GHz)     | 4.16 dB |
| Occupied Channel Bandwidth      | 69 KHz  |
| Frequency Stability             | 0.4 KHz |
| Temperature                     | 0.82 °C |
| Humidity                        | 4.1 %   |

# 4. Test Configuration

### 4.1 Environment Condition

During the measurement, the environmental conditions were within the listed ranges:

|                                       | NV (Normal Voltage)     | 3.80 V |
|---------------------------------------|-------------------------|--------|
| Test Voltage of the EUT               | LV (Low Voltage)        | 3.42 V |
| , , , , , , , , , , , , , , , , , , , | HV (High Voltage)       | 4.18 V |
|                                       | NT (Normal Temperature) | +25 °C |
| Test Temperature of the EUT           | LT (Low Temperature)    | -30 °C |
|                                       | HT (High Temperature)   | +50 °C |

# 4.2 Test Equipment List

|  | Conc  | lucted Metho | d Test      |            |            |             |
|--|---|--------------|-------------|------------|------------|-------------|
| Description  | Manufacturer  | Model        | Serial No.  | Cal. Date  | Cal. Due   | Use         |
| MXA Signal Analyzer                                      | KEYSIGHT  | N9020A       | MY50410020  | 2022.11.24 | 2023.11.23 | $\boxtimes$ |
| WIDEBAND RADIO<br>COMMNUNICATION<br>TESTER               | Rohde & Schwarz                                       | CMW500       | 161997      | 2022.11.24 | 2023.11.23 | $\boxtimes$ |
| Adjustable Direct<br>Current Regulated<br>Power Supply   | Dongguan Tongmen<br>Electronic<br>Technology Co., LTD | etm-6050c    | 20211026123 | 2022.11.24 | 2023.11.23 | $\boxtimes$ |
| Programmable<br>constant temperature<br>and humidity box | ZZCKONG   | ZZ-K02A      | 20210928007 | 2022.11.24 | 2023.11.23 | $\boxtimes$ |
| RF Sensor Unit   | Techy   | TR1029-2     | /           | 2022.11.24 | 2023.11.23 | $\boxtimes$ |
| RF Control Unit  | Techy   | TR1029-1     | /           | 2022.11.24 | 2023.11.23 | $\boxtimes$ |
| RFTest software  | /   | V1.00        | /           | /          | /          | $\boxtimes$ |

|                                    |               | <b>Radiated Metho</b> | d Test     |            |            |             |
|------------------------------------|---------------|-----------------------|------------|------------|------------|-------------|
| Description                        | Manufacturer  | Model                 | Serial No. | Cal. Date  | Cal. Due   | Use         |
| SIGNAL ANALYZER                    | ROHDE&SCHWARZ | FSQ40                 | 100010     | 2022.11.24 | 2023.11.23 | $\boxtimes$ |
| EMI TEST<br>RECEIVER ROHDE&SCHWARZ |               | ESCI7                 | 101032     | 2022.11.24 | 2023.11.23 | $\boxtimes$ |
| Log periodic antenna               | SCHWARZBECK   | VULB 9168             | 01328      | 2021.11.28 | 2023.11.27 | $\boxtimes$ |
| Horn Antenna                       | SCHWARZBECK   | BBHA9170              | 01157      | 2021.11.28 | 2023.11.27 | $\boxtimes$ |
| POSITIONAL<br>CONTROLLER SKET      |               | PCI-GPIB              | /          | /          | /          | $\boxtimes$ |
| RE Cable                           | REBES Talent  | UF2-NMNM-<br>10m      | 21101570   | 2022.11.24 | 2023.11.23 | $\boxtimes$ |

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BTF Testing Lab (Shenzhen) Co., Ltd.

F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China



| RE Cable                       | REBES Talent | UF1-SMASMAM-<br>10m | 21101566 | 2022.11.24 | 2023.11.23 | $\boxtimes$ |
|--------------------------------|--------------|---------------------|----------|------------|------------|-------------|
| RE Cable                       | REBES Talent | UF2-NMNM-2.5m       | 21101573 | 2022.11.24 | 2023.11.23 | $\boxtimes$ |
| RE Cable                       | REBES Talent | UF2-NMNM-1m         | 21101576 | 2022.11.24 | 2023.11.23 | $\boxtimes$ |
| RE Cable                       | REBES Talent | UF1-SMASMAM-1m      | 21101568 | 2022.11.24 | 2023.11.23 | $\boxtimes$ |
| RE Cable                       | REBES Talent | UF2-NMNM-10m        | 21101570 | 2022.11.24 | 2023.11.23 | $\boxtimes$ |
| RE Cable                       | REBES Talent | UF1-SMASMAM-<br>10m | 21101566 | 2022.11.24 | 2023.11.23 | $\boxtimes$ |
| Preamplifier                   | SCHWARZBECK  | BBV9744             | 00246    | 2022.11.24 | 2023.11.23 | $\boxtimes$ |
| Horn Antenna                   | Schwarzbeck  | BBHA9120D           | 2597     | 2022.5.22  | 2024.5.21  | $\boxtimes$ |
| Coaxial cable<br>Multiflex 141 | Schwarzbeck  | N/SMA 0.5m          | 517386   | 2023.3.24  | 2024.3.23  | $\boxtimes$ |
| Broadband<br>Preamplilifier    | Schwarzbeck  | BBV9718D            | 00008    | 2023.3.24  | 2024.3.23  | $\boxtimes$ |

# 4.3 Test Auxiliary Equipment

| Description | Manufacturer | Model | Serial No. | Length | Description | Use |
|-------------|--------------|-------|------------|--------|-------------|-----|
| /           | /            | /     | /          | /      | /           | /   |



# 4.4 Test Configurations

| Test Items            | Test Mode    |     | Test Channel |     |
|-----------------------|--------------|-----|--------------|-----|
| restitems             | Test Mode    | LCH | MCH          | HCH |
|                       | GPRS 850     | v   | v            | v   |
|                       | GPRS 1900    | v   | v            | v   |
|                       | EGPRS 850    | V   | v            | v   |
| Effective (Isotronic) | EGPRS 1900   | v   | V            | v   |
| Effective (Isotropic) | WCDMA Band 2 | v   | v            | v   |
| Radiated Power        | WCDMA Band 5 | v   | v            | v   |
| 3                     | HSDPA Band 2 | v   | v            | v   |
|                       | HSDPA Band 5 | v   | v            | v   |
|                       | HSUPA Band 2 | v   | v            | v   |
|                       | HSUPA Band 5 | v   | v            | v   |
|                       | GPRS 850     | v   | v            | v   |
|                       | GPRS 1900    | v   | v            | V   |
|                       | EGPRS 850    | v   | v            | v   |
|                       | EGPRS 1900   | v   | v            | v   |
| Pook to Average Patio | WCDMA Band 2 | v   | V            | v   |
| Peak to Average Ratio | WCDMA Band 5 | v   | V            | v   |
|                       | HSDPA Band 2 | v   | v            | v   |
|                       | HSDPA Band 5 | V   | V            | v   |
|                       | HSUPA Band 2 | V   | v            | V   |
|                       | HSUPA Band 5 | v   | v            | v   |



|                        | GPRS 850     | v | V | v |
|------------------------|--------------|---|---|---|
|                        | GPRS 1900    | v | v | v |
|                        | EGPRS 850    | v | v | v |
|                        | EGPRS 1900   | v | v | v |
| Occurried Developidate | WCDMA Band 2 | v | v | v |
| Occupied Bandwidth     | WCDMA Band 5 | v | v | v |
|                        | HSDPA Band 2 | v | v | v |
|                        | HSDPA Band 5 | v | v | v |
|                        | HSUPA Band 2 | v | v | v |
|                        | HSUPA Band 5 | V | v | v |
|                        | GPRS 850     | v | v | v |
|                        | GPRS 1900    | V | v | v |
|                        | EGPRS 850    | V | v | v |
|                        | EGPRS 1900   | v | v | v |
| Francisco Ctability    | WCDMA Band 2 | v | v | v |
| Frequency Stability    | WCDMA Band 5 | v | v | v |
|                        | HSDPA Band 2 | v | v | v |
|                        | HSDPA Band 5 | v | v | v |
|                        | HSUPA Band 2 | v | v | v |
|                        | HSUPA Band 5 | v | v | v |



|   | GPRS 850     | v | v | v |
|---|--------------|---|---|---|
|   | GPRS 1900    | v | v | v |
|   | EGPRS 850    | V | v | v |
|   | EGPRS 1900   | v | v | v |
| Spurious Emission at  | WCDMA Band 2 | v | v | v |
| Antenna Terminals   | WCDMA Band 5 | v | v | v |
|   | HSDPA Band 2 | v | v | v |
|   | HSDPA Band 5 | v | v | v |
|   | HSUPA Band 2 | v | v | v |
|   | HSUPA Band 5 | v | v | v |
| and the second se | GPRS 850     | V |   | v |
|   | GPRS 1900    | v |   | v |
|   | EGPRS 850    | v |   | v |
|   | EGPRS 1900   | V |   | v |
| Dend Edge   | WCDMA Band 2 | v |   | v |
| Band Edge   | WCDMA Band 5 | V |   | v |
|   | HSDPA Band 2 | v |   | v |
|   | HSDPA Band 5 | V |   | V |
|   | HSUPA Band 2 | V |   | v |
|   | HSUPA Band 5 | v |   | v |



|                    | GPRS 850     | v | V | v |
|--------------------|--------------|---|---|---|
|                    | GPRS 1900    | v | v | v |
|                    | EGPRS 850    | v | v | v |
|                    | EGPRS 1900   | v | v | v |
| Field Strength of  | WCDMA Band 2 | v | v | v |
| Spurious Radiation | WCDMA Band 5 | v | v | v |
|                    | HSDPA Band 2 | v | v | V |
|                    | HSDPA Band 5 | v | v | v |
|                    | HSUPA Band 2 | v | v | v |
|                    | HSUPA Band 5 | v | v | v |

Note 1: The mark "v" means that this configuration is chosen for testing.

| Test Mode           | UL Channel     | UL Channel No. | UL Frequency<br>(MHz) |
|---------------------|----------------|----------------|-----------------------|
|                     | Low Channel    | 128            | 824.2                 |
| GSM/GPRS/EGPRS 850  | Middle Channel | 190            | 836.6                 |
| 1.0                 | High Channel   | 251            | 848.8                 |
|                     | Low Channel    | 512            | 1850.2                |
| GSM/GPRS/EGPRS 1900 | Middle Channel | 661            | 1880.0                |
|                     | High Channel   | 810            | 1909.8                |
|                     | Low Channel    | 9262           | 1852.4                |
| WCDMA Band 2        | Middle Channel | 9400           | 1880.0                |
|                     | High Channel   | 9538           | 1907.6                |
|                     | Low Channel    | 4132           | 826.4                 |
| WCDMA Band 5        | Middle Channel | 4182           | 836.4                 |
|                     | High Channel   | 4233           | 846.6                 |



| LTE        |     | Bar | ndwid | th (Mł | Hz)  |        | Modula     | ation Type   |       | RB#  |      | Τe  | st Chan | nel |
|------------|-----|-----|-------|--------|------|--------|------------|--------------|-------|------|------|-----|---------|-----|
| Band       | 1.4 | 3   | 5     | 10     | 15   | 20     | QPSK       | 16-QAM       | 1     | Half | Full | LCH | MCH     | HCH |
| -          |     |     |       |        | Effe | ective | (Isotropic | ) Radiated F | Power |      |      |     |         |     |
| 2          | v   | v   | v     | v      | v    | v      | v          | v            | v     | V    | v    | v   | v       | v   |
| 4          | v   | v   | v     | v      | v    | v      | v          | v            | v     | v    | v    | v   | v       | v   |
| 5          | v   | v   | v     | v      | n    | n      | v          | v            | v     | v    | v    | v   | v       | v   |
| 12         | v   | v   | v     | v      | n    | n      | v          | V            | v     | v    | v    | v   | v       | v   |
| 13         | n   | n   | v     | v      | n    | n      | v          | v            | v     | v    | v    | v   | v       | v   |
| 25         | V   | V   | V     | V      | V    | V      | V          | V            | V     | V    | V    | v   | v       | v   |
| 26(Part22) | v   | v   | v     | v      | v    | n      | v          | v            | v     | v    | v    | v   | v       | v   |
| 26(Part90) | v   | v   | v     | v      | v    | n      | v          | v            | v     | v    | v    | v   | v       | v   |
| 41         | n   | n   | v     | v      | v    | v      | v          | V            | v     | v    | v    | v   | v       | v   |
| 66         | v   | v   | v     | v      | v    | v      | v          | v            | v     | v    | v    | v   | v       | v   |
| 71         | n   | n   | v     | v      | v    | v      | v          | V            | n     | n    | v    | v   | v       | v   |
|            |     |     |       |        |      | Pe     | ak to Ave  | erage Ratio  |       |      |      | _   |         |     |
| 2          | v   | v   | v     | v      | v    | v      | v          | v            | v     | v    | v    | v   | v       | v   |
| 4          | v   | v   | v     | v      | v    | v      | v          | v            | v     | v    | v    | v   | v       | v   |
| 5          | v   | v   | v     | v      | n    | n      | v          | v            | v     | v    | V    | v   | v       | v   |
| 12         | v   | v   | v     | v      | n    | n      | v          | v            | v     | V    | V    | v   | v       | V   |
| 13         | n   | n   | v     | V      | n    | n      | v          | v            | v     | v    | v    | V   | v       | V   |
| 25         | v   | v   | v     | v      | v    | v      | v          | v            | v     | V    | v    | v   | v       | V   |
| 26(Part22) | v   | v   | v     | v      | v    | n      | v          | V            |       |      | v    | v   | v       | V   |
| 26(Part90) | v   | v   | v     | v      | v    | n      | v          | v            |       |      | v    | v   | v       | v   |
| 41         | n   | n   | v     | v      | v    | v      | v          | v            | v     | v    | v    | v   | v       | v   |
| 66         | v   | v   | v     | v      | v    | v      | v          | v            | v     | v    | v    | v   | v       | v   |
| 71         | n   | n   | v     | v      | v    | v      | v          | V            |       |      | v    | v   | v       | V   |
|            |     |     | _     |        |      | 0      | ccupied E  | Bandwidth    |       |      |      | _   |         |     |
| 2          | v   | v   | v     | v      | v    | v      | v          | v            | v     | v    | v    | v   | v       | v   |
| 4          | v   | v   | v     | v      | v    | v      | v          | v            | v     | v    | v    | v   | v       | v   |
| 5          | v   | v   | v     | v      | n    | n      | v          | V            | v     | v    | V    | v   | V       | V   |
| 12         | v   | v   | v     | v      | n    | n      | v          | v            | v     | v    | v    | v   | V       | v   |
| 13         | n   | n   | v     | v      | n    | n      | v          | v            | v     | v    | v    | v   | v       | v   |
| 25         | v   | v   | v     | v      | v    | v      | v          | v            | v     | v    | v    | v   | V       | v   |
| 26(Part22) | v   | V   | v     | v      | v    | n      | v          | V            |       |      | v    | v   | V       | V   |
| 26(Part90) | v   | v   | v     | v      | v    | n      | v          | v            |       |      | v    | v   | v       | v   |
| 41         | n   | n   | v     | v      | v    | v      | v          | v            | v     | v    | v    | v   | v       | v   |
| 66         | v   | v   | v     | v      | v    | v      | v          | v            | v     | v    | v    | v   | v       | v   |
| 71         | n   | n   | v     | v      | v    | v      | v          | v            |       |      | v    | v   | v       | v   |



|            |   |   |   |   |        | F      | requency   | / Stability |        |     |   |   |   |   |
|------------|---|---|---|---|--------|--------|------------|-------------|--------|-----|---|---|---|---|
| 2          | v | v | v | v | v      | v      | v          | v           |        |     | v | v | v | v |
| 4          | V | v | v | v | v      | v      | v          | V           |        |     | v | v | v | v |
| 5          | V | v | V | v | n      | n      | v          | v           |        |     | v | v | v | V |
| 12         | V | v | v | v | n      | n      | v          | v           |        |     | v | v | v | v |
| 13         | n | n | v | v | n      | n      | v          | v           |        |     | V | v | v | v |
| 25         | v | v | v | v | v      | v      | v          | v           |        |     | v | v | v | v |
| 26(Part22) | V | v | v | v | V      | n      | v          | V           |        |     | v | v | V | V |
| 26(Part90) | v | v | v | v | v      | n      | v          | v           |        |     | v | v | v | v |
| 41         | n | n | v | v | v      | v      | v          | V           |        |     | v | v | v | v |
| 66         | v | v | v | v | v      | v      | v          | V           |        |     | v | v | v | V |
| 71         | n | n | v | v | v      | v      | v          | V           |        |     | v | v | v | v |
|            |   |   | 1 |   | Spurio | ous Er | mission at | t Antenna T | ermina | als |   |   |   |   |
| 2          | v | v | v | v | v      | V      | v          | V           | v      | v   | v | V | v | v |
| 4          | v | v | v | v | v      | v      | v          | V           | v      | v   | v | v | v | v |
| 5          | v | v | v | v | n      | n      | v          | v           | v      | v   | v | v | v | v |
| 12         | v | v | v | v | n      | n      | v          | v           | v      | v   | v | v | v | v |
| 13         | n | n | v | v | n      | n      | v          | v           | v      | v   | v | v | v | v |
| 25         | v | v | v | v | v      | v      | v          | v           | v      | v   | v | v | v | v |
| 26(Part22) | v | v | v | v | v      | n      | v          | v           | v      |     | v | v | v | v |
| 26(Part90) | v | v | v | v | v      | n      | v          | V           | v      |     | v | v | v | v |
| 41         | n | n | v | v | v      | v      | v          | v           | v      | v   | v | v | v | v |
| 66         | v | v | v | v | v      | v      | v          | v           | v      | v   | v | v | v | v |
| 71         | n | n | v | v | v      | v      | v          | v           | v      |     | v | v | v | V |
|            |   |   |   |   |        |        | Band       | Edge        |        |     |   |   |   |   |
| 2          | v | V | v | v | v      | v      | v          | v           | v      | v   | v | v | v | V |
| 4          | v | V | v | v | V      | v      | v          | v           | v      | V   | V | v | v | v |
| 5          | v | v | v | v | n      | n      | v          | v           | v      | v   | v | V | v | v |
| 12         | v | v | v | v | n      | n      | v          | v           | v      | v   | v | v | v | v |
| 13         | n | n | v | v | n      | n      | v          | V           | v      | v   | V | V | v | V |
| 25         | v | v | v | v | v      | v      | v          | v           | v      | v   | v | v | v | v |
| 26(Part22) | v | v | v | v | v      | n      | v          | v           | v      |     | v | v |   | V |
| 26(Part90) | v | v | v | v | v      | n      | v          | V           | V      |     | v | v |   | V |
| 41         | n | n | v | v | v      | v      | v          | v           | v      | v   | v | V | v | V |
| 66         | v | v | v | v | v      | v      | v          | V           | v      | v   | v | v | v | v |
| 71         | n | n | v | v | v      | v      | v          | v           | v      |     | v | v |   | v |



|            |        |          |       |        | Fiel    | d Stre | ength of S  | Spurious Rad  | diation |   |   |   |   |   |
|------------|--------|----------|-------|--------|---------|--------|-------------|---------------|---------|---|---|---|---|---|
| 2          | v      | v        | v     | v      | v       | v      | v           | v             | v       | v | v | v | v | v |
| 4          | v      | v        | v     | v      | v       | V      | v           | v             | v       | v | v | V | v | V |
| 5          | v      | v        | v     | v      | n       | n      | v           | v             | V       | v | v | v | v | v |
| 12         | v      | v        | v     | v      | n       | n      | v           | v             | v       | v | v | v | v | v |
| 13         | n      | n        | v     | v      | n       | n      | v           | v             | v       | v | v | v | v | v |
| 25         | V      | v        | v     | v      | v       | v      | v           | v             | V       | v | v | V | v | V |
| 26(Part22) | -      |          |       |        | v       | n      | v           |               | v       | - |   | v | v | V |
| 26(Part90) | 1      |          |       |        | v       | n      | v           |               | v       |   |   | V | v | V |
| 41         | n      | n        | v     | v      | v       | v      | v           | v             | v       | v | v | v | v | v |
| 66         | v      | v        | v     | v      | v       | v      | v           | v             | v       | v | v | v | v | v |
| 71         | n      | n        | v     | v      | v       | v      | v           |               | v       |   |   | v | v | v |
| Note 1: Th | ne mar | 'k "v" r | neans | that   | this co | onfigu | ration is c | chosen for te | esting. |   |   |   |   |   |
| Note 2: Th | ne mar | rk "n" r | nean  | s that | this ba | andwi  | dth is not  | supported.    |         |   |   |   |   |   |



|      |                  |  | Ban            | d 2                          |              |                                   |
|------|------------------|--|----------------|------------------------------|--------------|-----------------------------------|
| Test | Frequency<br>ID  | Bandwidth<br>[MHz]                                 | Nul            | Frequency of<br>Uplink [MHz] | Ndl          | Frequency of<br>Downlink<br>[MHz] |
|      |                  | 1.4  | 18607          | 1850.7                       | 607          | 1930.7                            |
|      |                  | 3  | 18615          | 1851.5                       | 615          | 1931.5                            |
|      |                  | 5  | 18625          | 1852.5                       | 625          | 1932.5                            |
| LC   | w Range          | 10   | 18650          | 1855                         | 650          | 1935                              |
|      |                  | 15 <sup>[1]</sup>                                  | 18675          | 1857.5                       | 675          | 1937.5                            |
|      |                  | 20 [1]   | 18700          | 1860                         | 700          | 1940                              |
| М    | id Range         | 1.4/3/5/10<br>15 <sup>[1]</sup> /20 <sup>[1]</sup> | 18900          | 1880                         | 900          | 1960                              |
|      |                  | 1.4  | 19193          | 1909.3                       | 1193         | 1989.3                            |
|      |                  | 3  | 19185          | 1908.5                       | 1185         | 1988.5                            |
|      |                  | 5  | 19175          | 1907.5                       | 1175         | 1987.5                            |
| Hi   | gh Range         | 10   | 19150          | 1905                         | 1150         | 1985                              |
|      |                  | 15 <sup>[1]</sup>                                  | 19125          | 1902.5                       | 1125         | 1982.5                            |
|      |                  | 20 [1]   | 19100          | 1900                         | 1100         | 1980                              |
| NOTE |                  | for which a relaxation<br>7] Clause 7.3) is allo   | on of the spe  |                              |              |                                   |
|      |                  | ,  | Ban            | d 4                          |              |                                   |
| _    |                  |  |                | -                            |              |                                   |
| Test | Frequency ID     | Bandwidth<br>[MHz]                                 | NuL            | Frequency of<br>Uplink [MHz] | NDL          | Frequency of<br>Downlink<br>[MHz] |
|      |                  | 1.4  | 19957          | 1710.7                       | 1957         | 2110.7                            |
|      |                  | 3  | 19965          | 1711.5                       | 1965         | 2110.7                            |
|      |                  | 5  | 19975          | 1712.5                       | 1975         | 2112.5                            |
| Le   | ow Range         | 10   | 20000          | 1715                         | 2000         | 2115                              |
|      |                  | 15   | 20025          | 1717.5                       | 2025         | 2117.5                            |
|      |                  | 20   | 20050          | 1720                         | 2050         | 2120                              |
| N    | lid Range        | 1.4/3/5/10/15/20                                   | 20175          | 1732.5                       | 2175         | 2132.5                            |
|      |                  | 1.4  | 20393          | 1754.3                       | 2393         | 2154.3                            |
|      |                  | 3  | 20385          | 1753.5                       | 2385         | 2153.5                            |
| Hi   | igh Range        | 5<br>10  | 20375<br>20350 | 1752.5<br>1750               | 2375<br>2350 | 2152.5<br>2150                    |
|      | -                | 10   | 20350          | 1750                         | 2350         | 2150                              |
|      |                  | 20   | 20325          | 1747.5                       | 2325         | 2147.5                            |
|      |                  | 20   |                |                              | 2000         | 1 2190                            |
|      | -                |  | Ban            |                              | 1            | 1-                                |
| Test | Frequency ID     | Bandwidth<br>[MHz]                                 | NuL            | Frequency of<br>Uplink [MHz] | NDL          | Frequency of<br>Downlink<br>[MHz] |
|      |                  | 1.4  | 20407          | 824.7                        | 2407         | 869.7                             |
|      | ow Range         | 3  | 20415          | 825.5                        | 2415         | 870.5                             |
|      | st i lange       | 5  | 20425          | 826.5                        | 2425         | 871.5                             |
|      |                  | 10 <sup>[1]</sup>                                  | 20450          | 829                          | 2450         | 874                               |
| M    | lid Range        | 1.4/3/5<br>10 <sup>[1]</sup>                       | 20525          | 836.5                        | 2525         | 881.5                             |
|      |                  | 1.4  | 20643          | 848.3                        | 2643         | 893.3                             |
| ні   | gh Range         | 3  | 20635          | 847.5                        | 2635         | 892.5                             |
|      | 3                | 5  | 20625          | 846.5                        | 2625         | 891.5                             |
|      | 4. Developed the | 10 [1]   | 20600          | 844                          | 2600         | 889                               |
|      |                  |  | 1 OT THE SPECI | ified UE receiver se         | INTRA PAGE   | rement (TS                        |

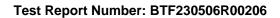
| 10010 4.0.1.1.12-1 | . rest irequenci                             | es for E-UI | RA channel band              | width for | operating band                |
|--------------------|--|-------------|------------------------------|-----------|-------------------------------|
| Test Frequency ID  | Bandwidth<br>[MHz]                           | NUL         | Frequency of<br>Uplink [MHz] | NDL       | Frequency of<br>Downlink [MHz |
|                    | 1.4  | 23017       | 699.7                        | 5017      | 729.7                         |
| Low Range          | 3  | 23025       | 700.5                        | 5025      | 730.5                         |
| Low Range          | 5 [1]  | 23035       | 701.5                        | 5035      | 731.5                         |
|                    | 10 [1]                                       | 23060       | 704                          | 5060      | 734                           |
| Mid Range          | 1.4/3<br>5 <sup>[1]</sup> /10 <sup>[1]</sup> | 23095       | 707.5                        | 5095      | 737.5                         |
|                    | 1.4  | 23173       | 715.3                        | 5173      | 745.3                         |
| Link Dance         | 3  | 23165       | 714.5                        | 5165      | 744.5                         |
| High Range         | 5 [1]  | 23155       | 713.5                        | 5155      | 743.5                         |
|                    | 10 [1]                                       | 23130       | 711                          | 5130      | 741                           |

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|   |  |   | Band   | d 13   |  |  |
|---|--|---|--|--|--|--|
|   | Test Frequency ID  | Bandwidth<br>[MHz]  | Nul  | Frequency of<br>Uplink [MHz]   | N <sub>DL</sub>  | Frequency of<br>Downlink [MHz]   |
|   | Low Range  | 5 [1]   | 23205  | 779.5  | 5205   | 748.5  |
|   | Low Range  | 10 [1]  | 23230  | 782  | 5230   | 751  |
|   | Mid Range  | 5 [1]/10 [1]  | 23230  | 782  | 5230   | 751  |
|   |  | 5 [1]   | 23255  | 784.5  | 5255   | 753.5  |
|   | High Range   | 10 [1]  | 23230  | 782  | 5230   | 751  |
|   | NOTE 1: Bandwidth  |   | on of the spec   |  |  |  |
| _ | (TS 36.101   | [27] Clause 7.3) is   | allowed.   |  |  |  |
|   |  |   | Band   | d 25   |  |  |
|   | Test Frequency<br>ID   | Bandwidth<br>[MHz]  | NUL  | Frequency of<br>Uplink [MHz]   | NDL  | Frequency of<br>Downlink<br>[MHz]  |
|   |  | 1.4   | 26047  | 1850.7   | 8047   | 1930.7   |
|   |  | 3   | 26055<br>26065   | 1851.5<br>1852.5   | 8055<br>8065   | 1931.5<br>1932.5   |
|   | Low Range  | 10  | 26090  | 1855   | 8090   | 1935   |
|   |  | 15 [1]  | 26115  | 1857.5   | 8115   | 1937.5   |
|   | Mid Dange  | 20 [1]  | 26140  | 1860   | 8140   | 1940   |
|   | Mid Range  | 15 [1]/20 [1]   | 26365  | 1882,5   | 8365   | 1962.5   |
|   |  | 1.4   | 26683  | 1914.3   | 8683   | 1994.3   |
|   |  | 3   | 26675  | 1913.5   | 8675   | 1993.5   |
|   | High Range   | 5<br>10   | 26665<br>26640   | 1912.5<br>1910   | 8665<br>8640   | 1992.5<br>1990   |
|   | and the second s |   | 26615  | 1907.5   | 8615   | 1987.5   |
|   |  | 1519  |  |  |  |  |
|   |  | 1 [27] Clause 7.3)  | 26590<br>tion of the sp<br>s allowed.  | 1905<br>Decified UE receive  | 8590<br>r sensitivity  | 1985<br>requirement  |
|   |  | 20 <sup>[1]</sup><br>for which a relaxa<br>1 [27] Clause 7.3) i   | 26590<br>tion of the sp<br>s allowed.  | 1905<br>Decified UE receive<br>Part 22)  |  | requirement  |
|   |  | 20 <sup>[1]</sup><br>for which a relaxa<br>[27] Clause 7.3) i<br>Banwidth[MHz]  | 26590<br>tion of the sy<br>s allowed.<br>and 26(   | 1905<br>Decified UE receive<br>Part 22)<br>Frequency of<br>Uplink [MHz]  | r sensitivity  | requirement<br>Frequency of<br>Downlink [MHz]  |
|   | (TS 36.10  | 20 <sup>[1]</sup><br>for which a relaxa<br>[27] Clause 7.3) i<br>Banwidth[MHz]<br>1.4   | 26590<br>tion of the sp<br>s allowed.<br>and 26(<br>N <sub>UL</sub><br>26797   | 1905<br>Decified UE receive<br>Part 22)<br>Frequency of<br>Uplink [MHz]<br>824.7   | N <sub>DL</sub><br>8797  | Frequency of<br>Downlink [MHz]<br>869.7  |
|   | (TS 36.10)<br>Test Frequency ID  | 20 <sup>[1]</sup><br>for which a relaxa<br>[27] Clause 7.3) i<br>Banwidth[MHz]<br><u>1.4</u><br>3   | 26590<br>tion of the sp<br>s allowed.<br>and 26(<br>N <sub>UL</sub><br>26797<br>26805  | 1905<br>Decified UE receive<br>Part 22)<br>Frequency of<br>Uplink [MHz]<br>824.7<br>825.5  | NDL.<br>8797<br>8805   | Frequency of<br>Downlink [MHz]<br>869.7<br>870.5   |
|   | (TS 36.10  | 20 <sup>[1]</sup><br>for which a relaxa<br>[27] Clause 7.3) i<br>Banwidth[MHz]<br>1.4<br>3<br>5   | 26590<br>tion of the sys<br>and 26(<br>NuL<br>26797<br>26805<br>26815  | 1905<br>Decified UE receive<br>Part 22)<br>Frequency of<br>Uplink [MHz]<br>824.7<br>825.5<br>826.5   | NDL<br>8797<br>8805<br>8815  | Frequency of<br>Downlink [MH2]<br>869.7<br>870.5<br>871.5  |
|   | (TS 36.10)<br>Test Frequency ID  | 20 <sup>[1]</sup><br>for which a relaxa<br>[27] Clause 7.3) i<br>Banwidth[MHz]<br>1.4<br>3<br>5<br>10   | 26590<br>tion of the system<br>and 26(<br>NuL<br>26797<br>26805<br>26815<br>26840  | 1905<br>Decified UE receive<br>Part 22)<br>Frequency of<br>Uplink [MHz]<br>824.7<br>825.5<br>826.5<br>829  | N <sub>DL</sub><br>8797<br>8805<br>8815<br>8840  | Frequency of<br>Downlink [MHz]<br>869.7<br>870.5<br>871.5<br>874   |
|   | (TS 36.10) Test Frequency ID Low Range   | 20 <sup>[1]</sup><br>for which a relaxa<br>[27] Clause 7.3) i<br>Banwidth[MHz]<br>1.4<br>3<br>5<br>10<br>15   | 26590<br>tion of the sys<br>and 26(<br>NuL<br>26797<br>26805<br>26815<br>26840<br>26865  | 1905<br>Decified UE receive<br>Part 22)<br>Frequency of<br>Uplink [MHz]<br>824.7<br>825.5<br>826.5<br>829<br>831.5   | N <sub>DL</sub><br>8797<br>8805<br>8815<br>8840<br>8865  | Frequency of<br>Downlink [MHz]<br>869.7<br>870.5<br>871.5<br>874<br>876.5  |
|   | (TS 36.10)<br>Test Frequency ID  | 20 <sup>[1]</sup><br>for which a relaxa<br>[27] Clause 7.3) i<br>Banwidth[MHz]<br>1.4<br>3<br>5<br>10<br>15<br>1.4/3/5/10/15  | 26590<br>tion of the sys<br>s allowed.<br>and 26(<br>N <sub>UL</sub><br>26797<br>26805<br>26815<br>26840<br>26865<br>26915   | 1905<br>Decified UE receive<br>Part 22)<br>Frequency of<br>Uplink [MHz]<br>824.7<br>825.5<br>826.5<br>829<br>831.5<br>836.5  | N <sub>DL</sub><br>8797<br>8805<br>8815<br>8840<br>8865<br>8915  | Frequency of<br>Downlink [MHz]<br>869.7<br>870.5<br>871.5<br>874<br>876.5<br>881.5   |
|   | (TS 36.10) Test Frequency ID Low Range   | 20 <sup>[1]</sup><br>for which a relaxa<br>[27] Clause 7.3) i<br>Banwidth[MHz]<br>1.4<br>3<br>5<br>10<br>15   | 26590<br>tion of the sys<br>and 26(<br>NuL<br>26797<br>26805<br>26815<br>26840<br>26865  | 1905<br>Decified UE receive<br>Part 22)<br>Frequency of<br>Uplink [MHz]<br>824.7<br>825.5<br>826.5<br>829<br>831.5   | N <sub>DL</sub><br>8797<br>8805<br>8815<br>8840<br>8865  | Frequency of<br>Downlink [MHz]<br>869.7<br>870.5<br>871.5<br>874<br>876.5  |
|   | (TS 36.10) Test Frequency ID Low Range   | 20 <sup>[1]</sup><br>for which a relaxa<br>[27] Clause 7.3) i<br>Banwidth[MHz]<br>1.4<br>3<br>5<br>10<br>15<br>1.4/3/5/10/15<br>1.4   | 26590<br>tion of the s <sub>1</sub><br>s allowed.<br>and 26(<br>N <sub>UL</sub><br>26797<br>26805<br>26815<br>26840<br>26865<br>26915<br>27033   | 1905<br>Decified UE receive<br>Part 22)<br>Frequency of<br>Uplink [MHz]<br>824.7<br>825.5<br>826.5<br>829<br>831.5<br>836.5<br>836.5<br>848.3                                      | N <sub>DL</sub><br>8797<br>8805<br>8815<br>8840<br>8865<br>8915<br>9033  | Frequency of<br>Downlink [MHz]<br>869.7<br>870.5<br>871.5<br>874<br>876.5<br>874<br>876.5<br>881.5<br>893.3  |
|   | (TS 36.10) Test Frequency ID Low Range Mid Range   | 20 <sup>[1]</sup><br>for which a relaxa<br>[27] Clause 7.3) i<br>Banwidth[MHz]<br>1.4<br>3<br>5<br>10<br>15<br>1.4/3/5/10/15<br>1.4<br>3<br>5<br>10   | 26590<br>tion of the s <sub>1</sub><br>s allowed.<br>and 26(<br>NuL<br>26797<br>26805<br>26815<br>26840<br>26865<br>26915<br>27033<br>27025  | 1905<br>Decified UE receive<br>Part 22)<br>Frequency of<br>Uplink [MHz]<br>824.7<br>825.5<br>826.5<br>829<br>831.5<br>836.5<br>831.5<br>836.5<br>848.3<br>847.5<br>846.5<br>844    | N <sub>DL</sub><br>8797<br>8805<br>8815<br>8840<br>8865<br>8915<br>9033<br>9025  | requirement<br>Frequency of<br>Downlink [MHz]<br>869.7<br>870.5<br>871.5<br>874<br>876.5<br>881.5<br>881.5<br>893.3<br>892.5   |
|   | (TS 36.10) Test Frequency ID Low Range Mid Range   | 20 <sup>[1]</sup><br>for which a relaxa<br>[27] Clause 7.3) i<br>Banwidth[MHz]<br>1.4<br>3<br>5<br>10<br>15<br>1.4/3/5/10/15<br>1.4/<br>3<br>5  | 26590<br>tion of the s <sub>1</sub><br>s allowed.  | 1905<br>Decified UE receive<br>Part 22)<br>Frequency of<br>Uplink [MHz]<br>824.7<br>825.5<br>826.5<br>829<br>831.5<br>836.5<br>848.3<br>847.5<br>846.5                             | N <sub>DL</sub><br>8797<br>8805<br>8815<br>8840<br>8865<br>8915<br>9033<br>9025<br>9015  | requirement<br>Frequency of<br>Downlink [MH2]<br>869.7<br>870.5<br>871.5<br>874<br>876.5<br>881.5<br>893.3<br>892.5<br>891.5   |
|   | (TS 36.10) Test Frequency ID Low Range Mid Range   | 20 <sup>[1]</sup><br>for which a relaxa<br>[27] Clause 7.3) i<br>Banwidth[MHz]<br>1.4<br>3<br>5<br>10<br>15<br>1.4/3/5/10/15<br>1.4/<br>3<br>5<br>10<br>15<br>1.4/3/5/10/15<br>1.4<br>3<br>5<br>10<br>15  | 26590<br>tion of the sy<br>s allowed.<br>And 26(<br>NuL<br>26797<br>26805<br>26815<br>26840<br>26865<br>26915<br>27033<br>27025<br>27015<br>26990<br>26965   | 1905<br>Decified UE receive<br>Part 22)<br>Frequency of<br>Uplink [MHz]<br>824.7<br>825.5<br>826.5<br>829<br>831.5<br>836.5<br>831.5<br>836.5<br>848.3<br>847.5<br>846.5<br>844    | N <sub>DL</sub><br>8797<br>8805<br>8815<br>8840<br>8865<br>8915<br>9033<br>9025<br>9015<br>8990  | Frequency of<br>Downlink [MHz]<br>869.7<br>870.5<br>871.5<br>874<br>876.5<br>881.5<br>883.3<br>892.5<br>893.3<br>892.5<br>891.5<br>889   |
|   | (TS 36.10) Test Frequency ID Low Range Mid Range   | 20 <sup>[1]</sup><br>for which a relaxa<br>[27] Clause 7.3) i<br>Banwidth[MHz]<br>1.4<br>3<br>5<br>10<br>15<br>1.4/3/5/10/15<br>1.4/<br>3<br>5<br>10<br>15<br>1.4/3/5/10/15<br>1.4<br>3<br>5<br>10<br>15  | 26590<br>tion of the sy<br>s allowed.<br>And 26(<br>NuL<br>26797<br>26805<br>26815<br>26840<br>26865<br>26915<br>27033<br>27025<br>27015<br>26990<br>26965   | 1905 Part 22) Frequency of Uplink [MHz] 824.7 825.5 826.5 829 831.5 836.5 848.3 847.5 846.5 844 841.5 Part 90) Frequency of  | N <sub>DL</sub><br>8797<br>8805<br>8815<br>8840<br>8865<br>8915<br>9033<br>9025<br>9015<br>8990  | requirement<br>Frequency of Downlink [MHz]<br>869.7<br>870.5<br>871.5<br>874.<br>876.5<br>881.5<br>893.3<br>892.5<br>891.5<br>889.<br>889.<br>886.5<br>Frequency of  |
|   | (TS 36.10) Test Frequency ID Low Range High Range  | 20 <sup>[1]</sup><br>for which a relaxa<br>[27] Clause 7.3) i<br>Banwidth[MHz]<br>1.4<br>3<br>5<br>10<br>15<br>1.4/3/5/10/15<br>1.4<br>3<br>5<br>10<br>15<br>Banwidth[MHz]<br>Banwidth[MHz]   | 26590<br>tion of the sys<br>and 26(<br>NuL<br>26797<br>26805<br>26815<br>26840<br>26865<br>26915<br>27033<br>27025<br>27015<br>26990<br>26965<br>and26(<br>NuL   | 1905 Part 22) Frequency of Uplink [MHz] 824.7 825.5 826.5 829 831.5 836.5 848.3 847.5 846.5 844 841.5 Part 90) Frequency of Uplink [MHz]   | NoL<br>8797<br>8805<br>8815<br>8840<br>8865<br>8915<br>9033<br>9015<br>8990<br>8995<br>8990<br>8995<br>8990<br>8995  | requirement<br>Frequency of<br>Downlink [MHz]<br>869.7<br>870.5<br>871.5<br>874.<br>876.5<br>881.5<br>893.3<br>892.5<br>891.5<br>889.<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>889.5<br>89.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5<br>80.5 |
|   | (TS 36.10) Test Frequency ID Low Range High Range  | 20 <sup>[1]</sup><br>for which a relaxa<br>[27] Clause 7.3) i<br>Bauwidth[MHz]<br>1.4<br>3<br>5<br>1.4(3/5/10/15<br>1.4(3/5/10/15)<br>1.4<br>3<br>5<br>10<br>15<br>1.4(3/5/10/15)<br>1.4<br>3<br>5<br>10<br>15<br>Bauwidth[MHz]<br>1.4  | 26590<br>tion of the sys<br>s allowed.<br>and 26(<br>NUL<br>26797<br>26805<br>26815<br>26840<br>26865<br>26915<br>27015<br>27015<br>26990<br>26965<br>and26(<br>NUL<br>26997   | 1905 Part 22) Frequency of Uplink [MHz] 824.7 825.5 826.5 829 831.5 836.5 844.3 847.5 846.5 844 841.5 Part 90) Frequency of Uplink [MHz] 814.7                                     | NoL           8797           8805           8815           8840           8865           8915           9033           9025           9015           8990           8995           NDL           8965  | requirement<br>Frequency of<br>Downlink [MHz]<br>869.7<br>870.5<br>871.5<br>874.<br>876.5<br>881.5<br>893.3<br>892.5<br>891.5<br>889.<br>889.<br>889.<br>889.<br>5<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>889.<br>859.<br>859.<br>859.<br>70.<br>70.<br>70.<br>70.<br>70.<br>70.<br>70.<br>70  |
|   | (TS 36.10) Test Frequency ID Low Range Mid Range High Range Test Frequency ID  | 20 <sup>[1]</sup><br>for which a relaxa<br>[27] Clause 7.3) i<br>Bauwidth[MHz]<br>1.4<br>3<br>5<br>1.4(3/5/10/15<br>1.4(3/5/10/15)<br>1.4<br>3<br>5<br>10<br>15<br>1.4(3/5/10/15)<br>1.4<br>3<br>5<br>10<br>15<br>Bauwidth[MHz]<br>1.4<br>3<br>3  | 26590<br>tion of the sys<br>s allowed.<br>and 26(<br>NuL<br>26797<br>26805<br>26815<br>26840<br>26865<br>26915<br>27033<br>27025<br>27015<br>26990<br>26965<br>and26(<br>NuL<br>26997<br>26705                       | 1905 Part 22) Frequency of Uplink [MHz] 824.7 825.5 826.5 829 831.5 836.5 848.3 847.5 846.5 844 841.5 Part 90) Frequency of Uplink [MHz] 814.7 815.5                               | Nol.         8797           8805         8815           8840         8865           8915         9033           9025         9015           8990         8995           NDL         8697           8705         8705 <td>requirement<br/>Frequency of Downlink [MHz]<br/>869.7<br/>870.5<br/>871.5<br/>874<br/>876.5<br/>881.5<br/>893.3<br/>892.5<br/>891.5<br/>889<br/>886.5<br/>Frequency of Downlink [MHz]<br/>859.7<br/>860.5</td>  | requirement<br>Frequency of Downlink [MHz]<br>869.7<br>870.5<br>871.5<br>874<br>876.5<br>881.5<br>893.3<br>892.5<br>891.5<br>889<br>886.5<br>Frequency of Downlink [MHz]<br>859.7<br>860.5   |
|   | (TS 36.10) Test Frequency ID Low Range High Range  | 20 <sup>[1]</sup><br>for which a relaxa<br>[27] Clause 7.3) i<br>Bauwidth[MHz]<br>1.4<br>3<br>5<br>1.4(3/5/10/15<br>1.4(3/5/10/15)<br>1.4<br>3<br>5<br>10<br>15<br>1.4(3/5/10/15)<br>1.4<br>3<br>5<br>10<br>15<br>Bauwidth[MHz]<br>1.4<br>3<br>5<br>10<br>15<br>5<br>10<br>15<br>5<br>10<br>15<br>5<br>10<br>15<br>5<br>10<br>15<br>15<br>14<br>3<br>5<br>5<br>10<br>15<br>15<br>14<br>3<br>5<br>5<br>10<br>15<br>15<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>10<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>15<br>10<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15  | 26590<br>tion of the system<br>and 26(<br>NuL<br>26797<br>26805<br>26815<br>26840<br>26865<br>26915<br>27033<br>27025<br>27015<br>26990<br>26965<br>and26(<br>NuL<br>26997<br>26705<br>26715                         | 1905 Part 22) Frequency of Uplink [MHz] 824.7 825.5 826.5 829 831.5 836.5 848.3 847.5 846.5 844 841.5 Part 90) Frequency of Uplink [MHz] 814.7 815.5 816.5                         | Npl.           8797           8805           8815           8840           8865           9033           9033           9033           9035           9015           8990           8995           Npl.           8697           8705           8715   | requirement<br>Frequency of<br>Downlink [MHz]<br>869.7<br>870.5<br>871.5<br>874.<br>876.5<br>881.5<br>893.3<br>892.5<br>891.5<br>889.<br>889.<br>886.5<br>Frequency of<br>Downlink [MHz]<br>859.7<br>860.5<br>861.5  |
|   | (TS 36.10) Test Frequency ID Low Range Mid Range High Range Test Frequency ID  | 20 <sup>[1]</sup><br>for which a relaxa<br>[27] Clause 7.3) i<br>Banwidth[MHz]<br>1.4<br>3<br>5<br>10<br>15<br>1.4/3/5/10/15<br>1.4<br>3<br>5<br>10<br>15<br>8<br>Banwidth[MHz]<br>1.4<br>3<br>5<br>10<br>15<br>10<br>15<br>1.4<br>3<br>5<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>10<br>15<br>10<br>10<br>15<br>10<br>10<br>15<br>10<br>10<br>15<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10   | 26590<br>tion of the sys<br>s allowed.<br>and 26(<br>NUL<br>26797<br>26805<br>26815<br>26840<br>26865<br>26915<br>27015<br>27015<br>26990<br>26965<br>and26(<br>NUL<br>26997<br>26705<br>26715<br>-                  | 1905 Part 22) Frequency of Uplink [MHz] 824.7 825.5 826.5 829 831.5 836.5 844.3 847.5 846.5 844 841.5 Part 90) Frequency of Uplink [MHz] 814.7 815.5 816.5                         | Nol.         8797           8805         8815           8840         8865           8915         9033           9025         9015           8990         8995           NDL         8697           8705         8705 <td>requirement<br/>Frequency of Downlink [MHz]<br/>869.7<br/>870.5<br/>871.5<br/>874<br/>876.5<br/>881.5<br/>893.3<br/>892.5<br/>891.5<br/>889<br/>886.5<br/>Frequency of Downlink [MHz]<br/>859.7<br/>860.5</td>  | requirement<br>Frequency of Downlink [MHz]<br>869.7<br>870.5<br>871.5<br>874<br>876.5<br>881.5<br>893.3<br>892.5<br>891.5<br>889<br>886.5<br>Frequency of Downlink [MHz]<br>859.7<br>860.5   |
|   | (TS 36.10) Test Frequency ID Low Range High Range Test Frequency ID Low Range  | 20 <sup>[1]</sup><br>for which a relaxa<br>[27] Clause 7.3) i<br>Banwidth[MHz]<br>1.4<br>3<br>5<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4<br>3<br>5<br>10<br>15<br>Banwidth[MHz]<br>1.4<br>3<br>5<br>10<br>15<br>Banwidth[MHz]<br>1.4<br>3<br>5<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>10<br>15<br>15<br>10<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15  | 26590<br>tion of the sys<br>s allowed.<br>And 26(<br>NUL<br>26797<br>26805<br>26815<br>26840<br>26865<br>26915<br>27015<br>27015<br>26990<br>26965<br>and26(<br>NUL<br>26997<br>26705<br>26715<br>-<br>2675          | 1905 Part 22) Frequency of Uplink [MHz] 824.7 825.5 826.5 829 831.5 836.5 848.3 847.5 846.5 844 841.5 Part 90) Frequency of Uplink [MHz] 814.7 815.5 816.5 - 821.5                 | Nol.         8797           8805         8815           8840         8865           8915         9033           9025         9015           9015         8990           8965         8           805         8           805         8           9033         9025           9015         8           8990         8           8065         8           9015         8           8097         8           8715         -           -         -   | requirement<br>Frequency of Downlink [MHz] 869.7 870.5 871.5 874 876.5 881.5 893.3 892.5 891.5 889 886.5<br>Frequency of Downlink [MHz] 859.7 860.5 861.5  |
|   | (TS 36.10) Test Frequency ID Low Range Mid Range High Range Test Frequency ID  | 20 <sup>[1]</sup><br>for which a relaxa<br>[27] Clause 7.3) i<br>Banwidth[MHz]<br>1.4<br>3<br>5<br>10<br>15<br>1.4/3/5/10/15<br>1.4<br>3<br>5<br>10<br>15<br>1.4/3/5/10/15<br>1.4<br>3<br>5<br>10<br>15<br>Banwidth[MHz]<br>1.4<br>3<br>5<br>10<br>15<br>1.4/3/5/10   | 26590<br>tion of the sys<br>s allowed.<br>and 26(<br>NUL<br>26797<br>26805<br>26815<br>26840<br>26865<br>26915<br>27015<br>27015<br>26990<br>26965<br>and26(<br>NUL<br>26997<br>26705<br>26715<br>-<br>2675<br>26740 | 1905 Part 22) Frequency of Uplink [MHz] 824.7 825.5 826.5 829 831.5 836.5 848.3 847.5 846.5 844 841.5 Part 90) Frequency of Uplink [MHz] 814.7 815.5 816.5 - 821.5 819             | NoL.<br>8797<br>8805<br>8815<br>8840<br>8865<br>8915<br>9033<br>9025<br>9015<br>8990<br>8995<br>8990<br>8995<br>8990<br>8965<br>8970<br>8970<br>8705<br>8715<br>-<br>-   | requirement<br>Frequency of Downlink [MHz] 869.7 870.5 871.5 874 876.5 881.5 893.3 892.5 891.5 889 886.5<br>Frequency of Downlink [MHz] 859.7 860.5 861.5 864  |
|   | (TS 36.10) Test Frequency ID Low Range High Range Test Frequency ID Low Range  | 20 <sup>[1]</sup><br>for which a relaxa<br>[27] Clause 7.3) i<br>Banwidth[MHz]<br>1.4<br>3<br>5<br>10<br>15<br>1.4/3/5/10/15<br>1.4/3<br>5<br>10<br>15<br>Banwidth[MHz]<br>1.4<br>3<br>5<br>10<br>15<br>1.4/3/5/10<br>15<br>1.4/3/5/10<br>15<br>1.4/3/5/10<br>15<br>1.4/3/5/10<br>15<br>1.4/3/5/10<br>15<br>1.4/3/5/10<br>15<br>1.4/3/5/10<br>15<br>1.4/3/5/10<br>15<br>1.4/3/5/10<br>15<br>1.4/3/5/10<br>15<br>1.4/3/5/10<br>15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/1 | 26590 tion of the syses allowed. and 26( NUL 26797 26805 26815 26840 26865 26915 27033 27025 27015 26990 26965 and26( NUL 26997 26705 26715 - 26705 26715 - 26765 26740 26783  | 1905 Part 22) Frequency of Uplink [MHz] 824.7 825.5 826.5 829 831.5 836.5 848.3 847.5 846.5 844 841.5 Part 90) Frequency of Uplink [MHz] 814.7 815.5 816.5 - 821.5 819 823.3       | NoL.<br>8797<br>8805<br>8815<br>8840<br>8865<br>8915<br>9033<br>9025<br>9015<br>8990<br>8995<br>8990<br>8995<br>8990<br>8995<br>8990<br>8965<br>8990<br>8995<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8990<br>8965<br>8990<br>8990<br>8990<br>8990<br>8975<br>8990<br>8975<br>8990<br>8975<br>8975<br>8975<br>8975<br>8975<br>8975<br>8975<br>8975 | requirement<br>Frequency of Downlink [MHz] 869.7 870.5 871.5 874 876.5 881.5 893.3 892.5 891.5 889 886.5<br>Frequency of Downlink [MHz] 859.7 860.5 861.5 864 868.3  |
|   | (TS 36.10) Test Frequency ID Low Range High Range Test Frequency ID Low Range  | 20 <sup>[1]</sup><br>for which a relaxa<br>[27] Clause 7.3) i<br>Banwidth[MHz]<br>1.4<br>3<br>5<br>10<br>15<br>1.4/3/5/10/15<br>1.4/3<br>5<br>10<br>15<br>1.4/3/5/10/15<br>1.4<br>3<br>5<br>10<br>15<br>1.4/3/5/10/15<br>1.4<br>3<br>5<br>10<br>15<br>1.4/3/5/10/15<br>1.4<br>3<br>5<br>10<br>15<br>1.4<br>3<br>5<br>10<br>15<br>1.4<br>3<br>5<br>10<br>15<br>1.4<br>3<br>5<br>10<br>15<br>1.4<br>3<br>5<br>10<br>15<br>1.4<br>3<br>5<br>10<br>15<br>1.4<br>3<br>5<br>10<br>15<br>1.4<br>3<br>5<br>10<br>15<br>1.4<br>3<br>5<br>10<br>15<br>1.4<br>3<br>5<br>10<br>15<br>1.4<br>3<br>5<br>10<br>15<br>1.4<br>3<br>5<br>10<br>15<br>1.4<br>3<br>5<br>10<br>15<br>1.4<br>3<br>5<br>10<br>15<br>1.4<br>3<br>5<br>10<br>15<br>1.4<br>3<br>5<br>10<br>15<br>1.4<br>3<br>5<br>10<br>15<br>1.4<br>3<br>5<br>10<br>15<br>1.4<br>3<br>5<br>10<br>15<br>1.4<br>3<br>5<br>10<br>15<br>1.4<br>3<br>5<br>10<br>15<br>1.4<br>3<br>5<br>10<br>15<br>1.4<br>3<br>5<br>10<br>15<br>1.4<br>3<br>5<br>10<br>15<br>1.4<br>3<br>5<br>10<br>15<br>1.4<br>3<br>5<br>10<br>15<br>1.4<br>3<br>5<br>10<br>15<br>1.4<br>3<br>5<br>10<br>15<br>1.4<br>3<br>5<br>10<br>15<br>1.4<br>3<br>5<br>10<br>15<br>1.4<br>3<br>5<br>10<br>15<br>1.4<br>3<br>5<br>10<br>1.4<br>3<br>5<br>10<br>1.4<br>3<br>5<br>1.4<br>3<br>5<br>1.4<br>3<br>5<br>1.4<br>3<br>5<br>1.4<br>3<br>5<br>1.4<br>3<br>5<br>1.4<br>3<br>5<br>1.4<br>3<br>5<br>10<br>1.4<br>3<br>5<br>10<br>1.4<br>3<br>5<br>10<br>1.4<br>3<br>5<br>10<br>1.4<br>3<br>5<br>1.4<br>3<br>5<br>1.4<br>3<br>5<br>10<br>1.4<br>3<br>5<br>1.4<br>3<br>5<br>1.4<br>3<br>5<br>1.4<br>3<br>5<br>1.4<br>3<br>5<br>1.4<br>3<br>5<br>1.4<br>3<br>5<br>1.4<br>3<br>5<br>1.4<br>3<br>5<br>1.4<br>3<br>5<br>1.4<br>3<br>5<br>1.4<br>3<br>5<br>1.4<br>3<br>5<br>1.4<br>3<br>5<br>1.4<br>3<br>5<br>1.4<br>3<br>5<br>1.4<br>3<br>5<br>1.4<br>3<br>5<br>1.4<br>3<br>5<br>1.4<br>3<br>5<br>1.4<br>3<br>5<br>1.4<br>3<br>5<br>1.4<br>3<br>5<br>1.4<br>3<br>5<br>1.4<br>3<br>5<br>1.4<br>3<br>1.4<br>3<br>1.4<br>3<br>1.4<br>1.4<br>3<br>1.4<br>1.4<br>1.4<br>3<br>1.4<br>1.4<br>1.4<br>1.4<br>1.4<br>1.4<br>1.4<br>1.4  | 26590 tion of the syses allowed. and 26( NUL 26797 26805 26815 26840 26865 26915 27033 27025 27015 26990 26965 and26( NUL 26997 26705 26715 - 26705 26715 - 26765 26740 26783 26775                                  | 1905 Part 22) Frequency of Uplink [MHz] 824.7 825.5 826.5 829 831.5 836.5 848.3 847.5 846.5 844 841.5 Part 90) Frequency of Uplink [MHz] 814.7 815.5 816.5 - 821.5 819 823.3 822.5 | NoL.<br>8797<br>8805<br>8815<br>8840<br>8865<br>8915<br>9033<br>9025<br>9015<br>8990<br>8990<br>8995<br>8990<br>8995<br>8990<br>8995<br>8990<br>8995<br>8990<br>8995<br>8990<br>8995<br>8990<br>8995<br>8990<br>8995<br>8990<br>8995<br>8990<br>8995<br>8990<br>8995<br>8990<br>8995<br>8715<br>8715<br>8740<br>8775   | requirement<br>Frequency of Downlink [MHz]<br>869.7<br>870.5<br>871.5<br>874<br>876.5<br>881.5<br>893.3<br>892.5<br>889<br>886.5<br>Frequency of Downlink [MHz]<br>859.7<br>860.5<br>861.5<br>-<br>864<br>868.3<br>867.5   |
|   | (TS 36.10<br>Test Frequency ID<br>Low Range<br>Mid Range<br>High Range<br>Test Frequency ID<br>Low Range<br>Mid Range  | 20 <sup>[1]</sup><br>for which a relaxa<br>[27] Clause 7.3) i<br>Banwidth[MHz]<br>1.4<br>3<br>5<br>10<br>15<br>1.4/3/5/10/15<br>1.4/3<br>5<br>10<br>15<br>Banwidth[MHz]<br>1.4<br>3<br>5<br>10<br>15<br>1.4/3/5/10<br>15<br>1.4/3/5/10<br>15<br>1.4/3/5/10<br>15<br>1.4/3/5/10<br>15<br>1.4/3/5/10<br>15<br>1.4/3/5/10<br>15<br>1.4/3/5/10<br>15<br>1.4/3/5/10<br>15<br>1.4/3/5/10<br>15<br>1.4/3/5/10<br>15<br>1.4/3/5/10<br>15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10/15<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/10<br>1.4/3/5/1 | 26590 tion of the syses allowed. and 26( NUL 26797 26805 26815 26840 26865 26915 27033 27025 27015 26990 26965 and26( NUL 26997 26705 26715 - 26705 26715 - 26765 26740 26783  | 1905 Part 22) Frequency of Uplink [MHz] 824.7 825.5 826.5 829 831.5 836.5 848.3 847.5 846.5 844 841.5 Part 90) Frequency of Uplink [MHz] 814.7 815.5 816.5 - 821.5 819 823.3       | NoL.<br>8797<br>8805<br>8815<br>8840<br>8865<br>8915<br>9033<br>9025<br>9015<br>8990<br>8995<br>8990<br>8995<br>8990<br>8995<br>8990<br>8965<br>8990<br>8995<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8965<br>8990<br>8990<br>8965<br>8990<br>8990<br>8990<br>8990<br>8975<br>8990<br>8975<br>8990<br>8975<br>8975<br>8975<br>8975<br>8975<br>8975<br>8975<br>8975 | requirement<br>Frequency of Downlink [MHz] 869.7 870.5 871.5 874 876.5 881.5 893.3 892.5 891.5 889 886.5<br>Frequency of Downlink [MHz] 859.7 860.5 861.5 864 868.3  |





| Band 41           |                    |        |                               |  |  |  |  |  |  |  |  |
|-------------------|--------------------|--------|-------------------------------|--|--|--|--|--|--|--|--|
| Test Frequency ID | Bandwidth<br>[MHz] | EARFCN | Frequency (UL and DL<br>[MHz] |  |  |  |  |  |  |  |  |
| Low Range         | 5                  | 39675  | 2498.5                        |  |  |  |  |  |  |  |  |
|                   | 10                 | 39700  | 2501                          |  |  |  |  |  |  |  |  |
|                   | 15                 | 39725  | 2503.5                        |  |  |  |  |  |  |  |  |
|                   | 20                 | 39750  | 2506                          |  |  |  |  |  |  |  |  |
| Mid Range         | 5/10/15/20         | 40620  | 2593                          |  |  |  |  |  |  |  |  |
| High Range        | 5                  | 41565  | 2687.5                        |  |  |  |  |  |  |  |  |
|                   | 10                 | 41540  | 2685                          |  |  |  |  |  |  |  |  |
|                   | 15                 | 41515  | 2682.5                        |  |  |  |  |  |  |  |  |
|                   | 20                 | 41490  | 2680                          |  |  |  |  |  |  |  |  |

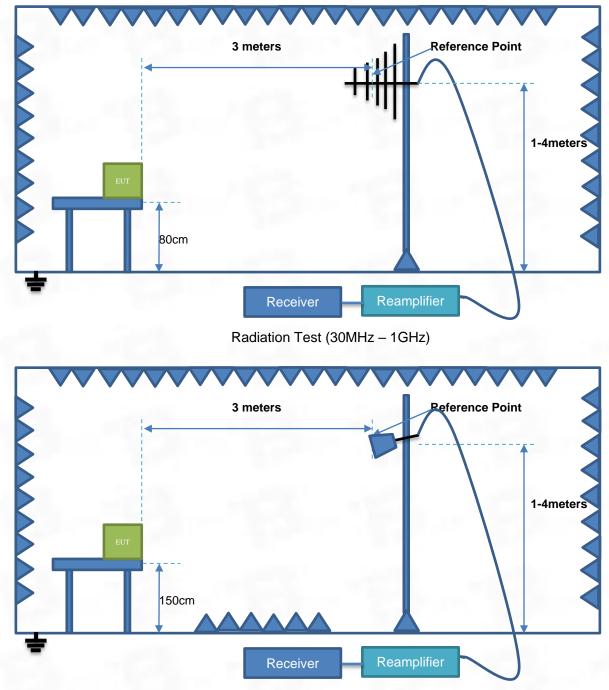
| Т   |                         |                    | Band             | 66                           |                |                                |
|-----|-------------------------|--------------------|------------------|------------------------------|----------------|--------------------------------|
|     | able 4.3.1.1.66-1:      | Test frequencies   | for E-UTRA       | channel bandw                | width for o    | perating band 6                |
|     | Test Frequency<br>ID    | Bandwidth<br>[MHz] | NUL              | Frequency of<br>Uplink [MHz] | NDL            | Frequency of<br>Downlink [MHz] |
|     |                         | 1.4                | 131979           | 1710.7                       | 66443          | 2110.7                         |
|     |                         | 3                  | 131987           | 1711.5                       | 66451          | 2111.5                         |
|     |                         | 5                  | 131997           | 1712.5                       | 66461          | 2112.5                         |
|     | Low Range               | 10                 | 132022           | 1715                         | 66486          | 2115                           |
|     |                         | 15                 | 132047           | 1717.5                       | 66511          | 2117.5                         |
|     |                         | 20                 | 132072           | 1720                         | 66536          | 2120                           |
|     | Mid Range Tx1           | 1.4/3/5/10/15/20   | 132322           | 1745                         | 66786          | 2145                           |
|     | Mid Range               | 1.4/3/5/10/15/20   | 132422           | 1755                         | 66886          | 2155                           |
|     |                         | 1.4                | 132665           | 1779.3                       | 67129          | 2179.3                         |
|     |                         | 3                  | 132657           | 1778.5                       | 67121          | 2178.5                         |
|     | Paired High             | 5                  | 132647           | 1777.5                       | 67111          | 2177.5                         |
|     | Range <sup>2</sup>      | 10                 | 132622           | 1775                         | 67086          | 2175                           |
|     |                         | 15                 | 132597           | 1772.5                       | 67061          | 2172.5                         |
|     |                         | 20                 | 132572           | 1770                         | 67036          | 2170                           |
|     |                         | 1.4                | NA               | NA                           | 67329          | 2199.3                         |
|     |                         | 3                  | NA               | NA                           | 67321          | 2198.5                         |
|     |                         | 5                  | NA               | NA                           | 67311          | 2197.5                         |
|     | High Range <sup>3</sup> | 10                 | NA               | NA                           | 67286          | 2195                           |
|     |                         | 15                 | NA               | NA                           | 67261          | 2192.5                         |
|     |                         | 20                 | NA               | NA                           | 67236          | 2190                           |
|     |                         |                    | Band 7           |                              |                |                                |
| Tes | st Frequency ID         | Bandwidth<br>[MHz] | NUL              | Frequency of<br>Uplink [MHz] | Ndl            | Frequency of<br>Downlink [MHz  |
|     |                         | 5                  | 133147           | 665.5                        | 68611          | 619.5                          |
|     | Low Range               | 10                 | 133172           | 668                          | 68636          | 622                            |
|     | Low Range               | 15                 | 133197           | 670.5                        | 68661          | 624.5                          |
|     |                         | 20                 | 133222           | 673                          | 68686          | 627                            |
|     | Mid Damas               | 5/10/15            | 133297           | 680.5                        | 68761          | 634.5                          |
|     | Mid Range               | 20                 | 133322           | 683                          | 68786          | 637                            |
|     |                         | 5                  | 133447           | 695.5                        | 68911          | 649.5                          |
|     |                         | 3                  |                  |                              |                |                                |
|     |                         |                    |                  | 693                          | 68886          | 647                            |
|     | High Range              | 10<br>15           | 133422<br>133397 | 693<br>690.5                 | 68886<br>68861 | 647<br>644.5                   |



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### 4.5 Test Setup

Test Setup 1



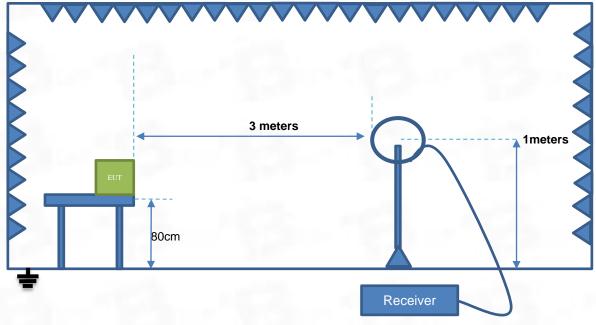
Radiation Test (Above 1GHz)

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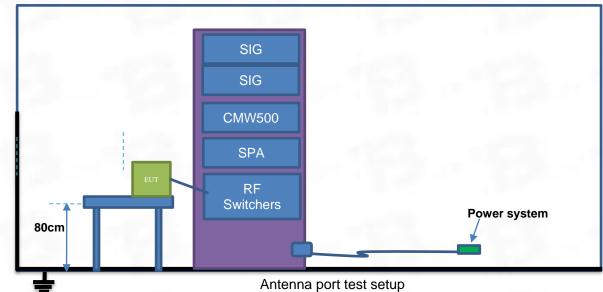
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#### **Test Setup 2**



Radiation Test (9k - 30MHz)

#### **Test Setup 3**





### 5. Test Items

### 5.1 Transmitter Radiated Power (EIRP/ERP)

#### 5.1.1 Limit

FCC § 2.1046 & 22.913(a) & 24.232(c) & 27.50(a) & 27.50(b) & 27.50(c) & 27.50(d) & 27.50(h) & 90.635(b) & 90.542(a); RSS-103 4.6; RSS-132 5.4, RSS-133 6.4, RSS-139 6.5, RSS199 4.4

According to FCC section 22.913(a) (5), the Effective Radiated Power (ERP) of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC section 24.232(c), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

According to FCC section 27.50(a) (3), for mobile and portable stations transmitting in the 2305-2315MHz band or the 2350-2360MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards.

FCC section 27.50(b) (10), portable stations (hand-held devices) transmitting in the 746-757MHz, 776-788MHz, and 805-806MHz bands are limited to 3 watts ERP.

FCC section 27.50(c) (10), portable stations (hand-held devices) in the 600MHz uplink band and the 698-746MHz band, and fixed and mobile stations in the 600MHz uplink band are limited to 3 watts ERP.

FCC section 27.50(d) (4), 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. Fixed stations operating in the 1710-1755 MHz band are limited to a maximum antenna height of 10 meters above ground. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

(7) Fixed, mobile, and portable (hand-held) stations operating in the 2000-2020 MHz band are limited to 2 watts EIRP.

And FCC section 27.50(h) (2), for mobile and other user stations, mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

According to FCC section 90.635(b), the maximum output power of the transmitter for mobile stations is 100 watts (20dBW).

According to FCC section 90.542(a) (7), portable stations (hand-held devices) transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 3 watts ERP.

#### 5.1.2 Test Setup

The section 4.4 test setup 4 description is used for conducted test, and the test setup description is used for radiated test. The photo of test setup please refer to ANNEX B.

#### 5.1.3 Test Procedure

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#### **Description of the Conducted Output Power Measurement**

The EUT is coupled to the SS with attenuator through power splitter; the RF load attached to EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading. A system simulator is used to establish communication with the EUT, and its parameters are set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The relevant equation for determining the conducted measured value is:

Conducted Output Power Value (dBm) = Measured Value (dBm) + Path Loss (dB)

where:

Conducted Output Power Value = final conducted measured value in the conducted power test, in dBm; Measured Value = measured conducted power received by spectrum analyzer or power meter, in dBm; Path Loss = signal attenuation in the connecting cable between the transmitter and spectrum analyzer or power meter, including external cable loss, in dB;

During the test, the data of Path Loss (dB) is added in the spectrum analyzer or power meter, so Measured Value (dBm) is the final values which contains the data of Path Loss (dB).

For example:

In the conducted output power test, when measured value for GSM850 is 24.7 dBm, and path loss is 8.5 dB, then final conducted output power value is:

Conducted Output Power Value (dBm) = 24.7 dBm + 8.5 dB = 33.2 dBm

#### **Description of the Transmitter Radiated Power Measurement**

In many cases, the RF output power limits for licensed digital transmission devices is specified in terms of effective radiated power (ERP) or equivalent isotropic radiated power (EIRP). Typically, ERP is specified when the operating frequency is less than or equal to 1 GHz and EIRP is specified when the operating frequency is greater than 1 GHz. Both are determined by adding the transmit antenna gain to the conducted RF output power with the primary difference between the two being that when determining the ERP, the transmit antenna gain is referenced to a dipole antenna (i.e., dBd) whereas when determining the EIRP, the transmit antenna gain is referenced to an isotropic antenna (dBi).

Final measurement calculation as below:

The relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is: ERP/EIRP = PMeas + GT - LC

where:

ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm);



PMeas = measured transmitter output power or PSD, in dBm or dBW; GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP); dBd (ERP)=dBi (EIRP) -2.15 dB

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

For example:

In the EIRP test, when PMeas value for GSM1900 is 30.2 dBm, LC is 0.6 dB, and GT is -3.4 dB, then final EIRP value is:

EIRP for GSM1900 = 30.2 dBm - 3.4 dBi - 0.6 dB = 26.2 dBm

The relevant equation for determining the ERP/EIRP from the radiated RF output power is:

ERP/EIRP (dBm) = SA Read Value (dBm) + Correction Factor (dB)

where:

ERP/EIRP = effective or equivalent radiated power, in dBm;

SA Read Value = measured transmitter power received by EMI receiver or spectrum analyzer, in dBm; Correction Factor = total correction factor including cable loss, in dB;

During the test, the data of Correction Factor (dB) is added in the EMI receiver or spectrum analyzer, so SA Read Value (dBm) is the final values which contains the data of Correction Factor (dB).

For example:

In the ERP test, when SA read value for GSM850 is 21dBm, and correction factor is 8dB, then final ERP value for GSM850 is:

ERP (dBm) = 21dBm + 8dB = 29dBm

5.1.4 Test Result

Please refer to ANNEX A.1



### 5.2 Peak to Average Ratio

#### 5.2.1 Limit

FCC § 2.1046 & 24.232(d) & 27.50(d); RSS-130 4.6.1, RSS-133 6.4, RSS-139 6.5, RSS199 4.4

In addition, when the transmitter power is measured in terms of average value, the peak-to-average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time using a signal corresponding to the highest PAPR during periods of continuous transmission.

According to FCC section 24.232(d); RSS-133 6.4, power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with 24.232 (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of § 24.51. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

FCC section 24.232(e) ); RSS-133 6.4,, peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms equivalent voltage. The measurement results shall be properly adjusted for any instrument limitations, such as detector response times, limited resolution bandwidth capability when compared to the emission bandwidth, sensitivity, etc., so as to obtain a true peak measurement for the emission in question over the full bandwidth of the channel.

According to FCC section 27.50(d) (5); RSS-139 6.5, in measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

According to RSS-19 4.4, In addition, the peak-to-average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time and shall use a signal corresponding to the highest PAPR during periods of continuous transmission.

#### 5.2.2 Test Setup

The section 4.5 test setup 5 description is used for conducted test, and the test setup description is used for radiated test. The photo of test setup please refer to ANNEX B.

#### 5.2.3 Test Procedure

Here the lowest, middle and highest channels are selected to perform testing to verify the peak-to-average ratio. According to KDB 971168 D01, there is CCDF procedure for PAPR:

- a) Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
- b) Set resolution/measurement bandwidth  $\geq$  signal's occupied bandwidth;
- c) Set the number of counts to a value that stabilizes the measured CCDF curve;
- d) Set the measurement interval as follows:

1) for continuous transmissions, set to 1 ms,



2) for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.

e) Record the maximum PAPR level associated with a probability of 0.1%.

Alternate procedure for PAPR:

Use one of the procedures presented in 4.1 to measure the total peak power and record as PPk. Use one of the applicable procedures presented 4.2 to measure the total average power and record as PAvg. Both the peak and average power levels must be expressed in the same logarithmic units (e.g., dBm). Determine the PAPR from:

PAPR (dB) = PPk (dBm) - PAvg (dBm).

5.2.4 Test Result

Please refer to ANNEX A.2



### 5.3 Occupied Bandwidth

#### 5.3.1 Limit

FCC § 2.1049, RSS-Gen 6.7

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission.

Many of the individual rule parts specify a relative OBW in lieu of the 99% OBW. In such cases, the OBW is defined as the width of the signal between two points, one below the carrier center frequency and on above the carrier center frequency, outside of which all emissions are attenuated by at least X dB below the transmitter power, where the value of X is typically specified as 26.

#### 5.3.2 Test Setup

The section 4.5 test setup 5 description is used for conducted test, and the test setup description is used for radiated test. The photo of test setup please refer to ANNEX B.

#### 5.3.3 Test Procedure

The following procedure shall be used for measuring power bandwidth.

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (i.e., two to five times the anticipated OBW).
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
- c) Set the reference level of the instrument as required to keep the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope must be at least 10log (OBW / RBW) below the reference level.
- d) NOTE—Steps a) through c) may require iteration to adjust within the specified tolerances.
- e) For -26 dB OBW, the dynamic range of the spectrum analyzer at the selected RBW shall be at least 10dB below the target "-X dB down" requirement, e.g. -26 dB OBW, the spectrum analyzer noise floor at the selected RBW shall be 36dB below the reference value.
- f) Set the detection mode to peak, and the trace mode to max hold.
- g) For 99% OBW, use the 99 % power bandwidth function of the spectrum analyzer (if available) and report the measured bandwidth.

If the instrument does not have a 99 % power bandwidth function, the trace data points are to be recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99 % power bandwidth is the difference between these two frequencies.

h) For -26 dB OBW, determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).



Determine the "-X dB down amplitude" as equal to (reference value -X). Alternatively, this calculation can be performed by the analyzer by using the marker-delta function.

Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below "-X dB down amplitude" determined in step g). If a marker is below this "-X dB down amplitude" value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.

- i) The OBW shall be reported by providing plot(s) of the measuring instrument display. The frequency and amplitude axes and scale shall be clearly labeled. Tabular data may be reported in addition to the plot(s).
- j) Change variable modulations, coding, or channel bandwidth settings, then repeat above test procedures.

#### 5.3.4 Test Result

Please refer to ANNEX A.3



### 5.4 Frequency Stability

5.4.1 Limit

FCC § 2.1055 & 22.355 & 24.235 & 27.54 & 90.213; RSS-130 4.5, RSS-132 5.3, RSS-133 6.3, RSS-139 6.4, RSS199 4.3

The frequency stability shall be measured with variation of ambient temperature as follows:

- (1) The temperature is varied from  $-30^{\circ}$ C to  $+50^{\circ}$ C.
- (2) Frequency measurements shall be made at the extremes of the specified temperature range and at intervals of not more than 10°C through the range.

The frequency stability shall be measured with variation of primary supply voltage as follows:

- (1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than carried battery equipment.
- (2) For hand carried, battery powered equipment, reduce primary supply voltage to the battery operating and point which shall be specified by the manufacture.
- (3) The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

FCC § 22.355, RSS-132 5.3

Except as otherwise provided in this part, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table C-1 of this section.

| Frequency range |                   | Mobile > 3 watts | Mobile ≤ 3 watts |
|-----------------|-------------------|------------------|------------------|
| (MHz)           | Base, fixed (ppm) | (ppm)            | (ppm)            |
| 25 to 50        | 20.0              | 20.0             | 50.0             |
| 50 to 450       | 5.0               | 5.0              | 50.0             |
| 450 to 512      | 2.5               | 5.0              | 5.0              |
| 821 to 896      | 1.5               | 2.5              | 2.5              |
| 928 to 929      | 5.0               | n/a              | n/a              |
| 929 to 960      | 1.5               | n/a              | n/a              |
| 2110 to 2220    | 10.0              | n/a              | n/a              |

Table C-1—Frequency Tolerance for Transmitters in the Public Mobile Services

FCC § 24.235, RSS-133 6.3

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

FCC § 27.54, RSS-139 6.4

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.



#### FCC § 90.213, RSS199 4.3

The frequency stability shall not depart from the reference frequency in excess of ±2.5ppm for mobile stations.

#### 5.4.2 Test Setup

The section 4.5 test setup 6 description is used for conducted test, and the test setup description is used for radiated test. The photo of test setup please refer to ANNEX B.

#### 5.4.3 Test Procedure

1. The EUT is placed in a temperature chamber.

2. The temperature is set to 25°C and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured.

3. The temperature is increased by not more than 10 degrees, allowed to stabilize and soak, and then repeat the frequency error measurement.

- 4. Repeat procedure 3 until +50°C and -30°C is reached.
- 5. Change supply voltage, and repeat measurement until extreme voltage is reached.

#### 5.4.4 Test Result

Please refer to ANNEX A.4

### 5.5 Spurious Emission at Antenna Terminals

#### 5.5.1 Limit

FCC § 2.1051 & 22.917(a) & 24.238(a) & 27.53(a) & 27.53(c) & 27.53(f) & 27.53(g) & 27.53(h) & 27.53(m) & 90.691 & 90.543; RSS-130 4.7, RSS-132 5.5, RSS-133 6.5, RSS-139 6.6, RSS199 4.5

In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

FCC § 22.917(a) & 24.238(a), RSS-132 5.5, RSS-133 6.5

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43+10\*log(P) dB. This is calculated to be -13 dBm.

FCC § 27.53(a) (4), RSS-139 6.6

For mobile and portable stations operating in the 2305-2315MHz and 2350-2360MHz bands:

- (1) By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320MHz and on all frequencies between 2345 and 2360MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324MHz and on all frequencies between 2341 and 2345MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328MHz and on all frequencies between 2337 and 2341MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337MHz.
- (2) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292MHz, and 70 + 10 log (P) dB below 2288MHz.
- (3) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365MHz, and not less than 70 + 10 log (P) dB above 2365MHz.

FCC § 27.53(c), RSS-139 6.6

- For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:
- (1) On any frequency outside the 746–758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
- (2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
- (3) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations;
- (4) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;



- (5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;
- (6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

FCC § 27.53(f) , RSS-139 6.6

For operations in the 746–758 MHz, 775–788 MHz, and 805–806 MHz bands, emissions in the band 1559–1610 MHz shall be limited to - 70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

FCC § 27.53(g) , RSS-139 6.6

For operations in the 600MHz band and the 698-746MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43+10\*log(P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC § 27.53(h) (1), RSS-139 6.6

Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 log10 (P) dB.

FCC § 27.53(m) (4), RSS-139 6.6 For mobile digital stations (BRS and EBS stations), the attenuation factor shall be not less than:

• 40+10logP dB (-10 dBm, 100 nW) on all frequencies between the channel edge and 5 MHz from the channel edge.

- 43+10logP dB (-13 dBm, 50 nW) on all frequencies between 5 MHz and X MHz from the channel edge,
- 55+10logP dB (-25 dBm, 3 nW) on all frequencies more than X MHz from the channel edge, where X is the greater of 6 MHz or the actual emission bandwidth (26 dB).

In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or

EBS licensees.

#### FCC § 90.691

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#### Test Report Number: BTF230506R00206



- (a) Out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:
- (1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.
- (2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.
- (b) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

#### FCC § 90.543

- (e) For operations in the 758–768 MHz and the 788–798 MHz bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:
- On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations.
- (2) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.
- (3) On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.
- (4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.
- (f) For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/ MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

#### RSS199 4.5

- (a) for base station and fixed subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least 43 + 10 log10 p.
- (b) for mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least:
  - (i) 40 + 10 log10 p from the channel edges to 5 MHz away
  - (ii) 43 + 10 log10 p between 5 MHz and X MHz from the channel edges, and
  - (iii) 55 + 10 log10 p at X MHz and beyond from the channel edges
- In addition, the attenuation shall not be less than 43 + 10 log10 p on all frequencies between 2490.5 MHz and 2496 MHz, and 55 + 10 log10 p at or below 2490.5 MHz.
- In (a) and (b), p is the transmitter power measured in watts and X is 6 MHz or the equipment occupied bandwidth, whichever is greater.

#### 5.5.2 Test Setup



The section 4.5 test setup 5 description is used for conducted test, and the test setup description is used for radiated test. The photo of test setup please refer to ANNEX B.

#### 5.5.3 Test Procedure

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least 43 + 10 log(P) dB. Compliance with these provisions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency blocks a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

The EUT is coupled to the system simulator and spectrum analyzer; the RF load attached to EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading.

CMW500 is used to establish communication with the EUT, and its parameters are set to force the EUT transmitting at maximum output power.

The RF output of the transmitter is connected to the input of the spectrum analyzer through sufficient attenuation.

Spurious emissions are tested with 0.001MHz RBW for frequency less than 150kHz, 0.01MHz RBW for frequency less than 30MHz, 0.1MHz RBW for frequency less than 1GHz, and 1MHz RBW for frequency above 1GHz. And sweep point number are at least 401, referring to following formula.

Sweep point number = Span/RBW VBW=3\*RBW Detector Mode=mean or average power

Record the frequencies and levels of spurious emissions.

5.5.4 Test Result

Please refer to ANNEX A.5



## 5.6 Band Edge Emission

#### 5.6.1 Limit

FCC § 2.1051 & 22.917(a) & 24.238(a) & 27.53(a) & 27.53(c) & 27.53(g) & 27.53(h) & 27.53(m) & 90.691& 90.543; RSS-130 4.7, RSS-132 5.5, RSS-133 6.5, RSS-139 6.6, RSS199 4.5

In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

FCC § 22.917(a) & 24.238(a), RSS-132 5.5, RSS-133 6.5

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43+10\*log(P) dB. This is calculated to be -13 dBm.

FCC § 27.53(a) (4), RSS-139 6.6

For mobile and portable stations operating in the 2305-2315MHz and 2350-2360MHz bands:

- (1) By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320MHz and on all frequencies between 2345 and 2360MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324MHz and on all frequencies between 2341 and 2345MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328MHz and on all frequencies between 2337 and 2341MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337MHz.
- (2) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292MHz, and 70 + 10 log (P) dB below 2288MHz.
- (3) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365MHz, and not less than 70 + 10 log (P) dB above 2365MHz.

FCC § 27.53(c), RSS-139 6.6

For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

- (1) On any frequency outside the 746–758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
- (2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
- (3) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25Hz band segment, for base and fixed stations;



- (4) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25kHz band segment, for mobile and portable stations;
- (5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater.

However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;

(6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

FCC § 27.53(g), RSS-139 6.6

For operations in the 600MHz band and the 698-746MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43+10\*log(P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC § 27.53(h) (1), RSS-139 6.6

Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 log10 (P) dB.

FCC § 27.53(m) (4), RSS-139 6.6

For mobile digital stations (BRS and EBS stations), the attenuation factor shall be not less than:

• 40+10logP dB (-10 dBm, 100 nW) on all frequencies between the channel edge and 5 MHz from the channel edge.

• 43+10logP dB (-13 dBm, 50 nW) on all frequencies between 5 MHz and X MHz from the channel edge,

• 55+10logP dB (-25 dBm, 3 nW) on all frequencies more than X MHz from the channel edge, where X is the greater of 6 MHz or the actual emission bandwidth (26 dB).

In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

#### FCC § 90.691

(a) Out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:
(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels



or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

- (2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.
- (b) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

#### FCC § 90.543

- (e) For operations in the 758–768 MHz and the 788–798 MHz bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:
- (1) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations.
- (2) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.
- (3) On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.
- (4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

#### RSS199 4.5

- (a) for base station and fixed subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least 43 + 10 log10 p.
- (b) for mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least:
  - (i) 40 + 10 log10 p from the channel edges to 5 MHz away
  - (ii) 43 + 10 log10 p between 5 MHz and X MHz from the channel edges, and
  - (iii) 55 + 10 log10 p at X MHz and beyond from the channel edges
- In addition, the attenuation shall not be less than 43 + 10 log10 p on all frequencies between 2490.5 MHz and 2496 MHz, and 55 + 10 log10 p at or below 2490.5 MHz.
- In (a) and (b), p is the transmitter power measured in watts and X is 6 MHz or the equipment occupied bandwidth, whichever is greater.

#### 5.6.2 Test Setup

The section 4.5 test setup 5 description is used for conducted test, and the test setup description is used for radiated test. The photo of test setup please refer to ANNEX B.

#### 5.6.3 Test Procedure



The EUT, which is powered by the Battery, is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading.

- 1. The EUT is coupled to the system simulator and spectrum analyzer; the RF load attached to EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading.
- 2. CMW500 is used to establish communication with the EUT, and its parameters are set to force the EUT transmitting at maximum output power.
- 3. The RF output of the transmitter is connected to the input of the spectrum analyzer through sufficient attenuation.
- 4. The center of the spectrum analyzer was set to block edge frequency.
- 5. Band edge are tested with 1%\*cBW (RBW), and sweep point number referred to following formula. Sweep point number = 2\*Span/RBW VBW=3RBW
- 6. Record the frequencies and levels of spurious emissions.

For mobile and portable stations, on all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment. Since it was not possible to set the resolution bandwidth to 6.25 kHz with the available equipment, a bandwidth of 10 kHz was used instead to show compliance. By using a 10 kHz bandwidth on the spectrum analyzer.

10\*log(10 kHz / 6.25 kHz) = 2.04 dB Limit Line = -35 dBm + 2.04 dB = -32.96dBm

5.6.4 Test Result

Please refer to ANNEX A.6



## 5.7 Field Strength of Spurious Radiation

5.7.1 Limit

FCC § 2.1053 & 22.917(a) & 24.238(a) & 27.53(a) & 27.53(c) & 27.53(f) & 27.53(g) & 27.53(h) & 27.53(m) & 90.691& 90.543 ; RSS-130 4.7, RSS-132 5.5, RSS-133 6.5, RSS-139 6.6, RSS199 4.5

FCC § 22.917(a) & 24.238(a)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43+10\*log(P) dB. This is calculated to be -13 dBm.

FCC § 27.53(a) (4), RSS-139 6.6

For mobile and portable stations operating in the 2305-2315MHz and 2350-2360MHz bands:

(1) By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320MHz and on all frequencies between 2345 and 2360MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324MHz and on all frequencies between 2341 and 2345MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328MHz and on all frequencies between 2337 and 2341MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337MHz.

(2) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292MHz, and 70 + 10 log (P) dB below 2288MHz.

(3) By a factor of not less than  $43 + 10 \log (P) dB$  on all frequencies between 2360 and 2365MHz, and not less than 70 + 10 log (P) dB above 2365MHz.

FCC § 27.53(c), RSS-139 6.6

For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(1) On any frequency outside the 746–758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;

(2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;

(3) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations;

(4) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

(5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater.

However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;

(6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of

measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

FCC § 27.53(f), RSS-139 6.6

For operations in the 746–758 MHz, 775–788 MHz, and 805–806 MHz bands, emissions in the band 1559–1610 MHz shall be limited to - 70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

FCC § 27.53(g), RSS-139 6.6

For operations in the 600MHz band and the 698-746MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43+10\*log(P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

#### FCC § 27.53(h) (1), RSS-139 6.6

Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 log10 (P) dB. FCC § 27.53(m) (4) For mobile digital stations (BRS and EBS stations), the attenuation factor shall be not less than:

• 40+10logP dB (-10 dBm, 100 nW) on all frequencies between the channel edge and 5 MHz from the channel edge.

• 43+10logP dB (-13 dBm, 50 nW) on all frequencies between 5 MHz and X MHz from the channel edge,

• 55+10logP dB (-25 dBm, 3 nW) on all frequencies more than X MHz from the channel edge, where X is the greater of 6 MHz or the actual emission bandwidth (26 dB).

In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

#### FCC § 90.691

(a) Out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:
(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log10(P) decibels or 80



decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

(b) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

#### FCC § 90.543

(e) For operations in the 758–768 MHz and the 788–798 MHz bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(1) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations.

(2) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.

(3) On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.

(4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

#### RSS199 4.5

- (a) for base station and fixed subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least 43 + 10 log10 p.
- (b) for mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least:
  - (i) 40 + 10 log10 p from the channel edges to 5 MHz away
  - (ii) 43 + 10 log10 p between 5 MHz and X MHz from the channel edges, and
  - (iii) 55 + 10 log10 p at X MHz and beyond from the channel edges
- In addition, the attenuation shall not be less than 43 + 10 log10 p on all frequencies between 2490.5 MHz and 2496 MHz, and 55 + 10 log10 p at or below 2490.5 MHz.
- In (a) and (b), p is the transmitter power measured in watts and X is 6 MHz or the equipment occupied bandwidth, whichever is greater.

#### 5.7.2 Test Setup

The section 4.5 test setup 4 description is used for conducted test, and the test setup description is used for radiated test. The photo of test setup please refer to ANNEX B.

#### 5.7.3 Test Procedure

1. On a test site, the EUT shall be placed at 80cm height on a turn table, and in the position close to normal use as declared by the applicant.

2. The test antenna shall be oriented initially for vertical polarization located 3 m from EUT to correspond to the fundamental frequency of the transmitter.

3. The output of the test antenna shall be connected to the measuring receiver and the peak detector is used for the measurement.

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4. During the measurement of the EUT, the resolution bandwidth was to 1 MHz and the average bandwidth was set to 1 MHz.

5. The transmitter shall be switched on; the measuring receiver shall be tuned to the frequency of the transmitter under test.

6. The test antenna shall be raised and lowered through the specified range of height until the maximum signal level is detected by the measuring receiver.

7. The transmitter shall be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.

8. The test antenna shall be raised and lowered again through the specified range of height until the maximum signal level is detected by the measuring receiver.

9. The maximum signal level detected by the measuring receiver shall be noted.

10. The EUT was replaced by half-wave dipole (824 ~ 849 MHz) or horn antenna (1 850 ~ 1 910 MHz) connected to a signal generator.

11. In necessary, the input attenuator setting on the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.

12. The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.

13. The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring received, which is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuator setting of the measuring receiver.

14. The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.

15. The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.

Final measurement calculation as below:

The relevant equation for determining the ERP/EIRP from the radiated RF output power is: ERP/EIRP (dBm) = SA Read Value (dBm) + Correction Factor (dB)

where:

ERP/EIRP = effective or equivalent radiated power, in dBm;

SA Read Value = measured transmitter power received by EMI receiver or spectrum analyzer, in dBm; Correction Factor = total correction factor including cable loss, in dB;

During the test, the data of Correction Factor (dB) is added in the EMI receiver or spectrum analyzer, so SA Read Value (dBm) is the final values which contains the data of Correction Factor (dB).

For example:

In the ERP test, when SA read value for GSM850 is 21dBm, and correction factor is 8dB, then final ERP value for GSM850 is: ERP (dBm) = 21dBm + 8dB = 29dBm

#### 5.7.4 Test Result

#### Please refer to ANNEX A.7



## **ANNEX A Test Results**

## A.1 Transmitter Radiated Power (ERP/EIRP)

Refer to appendix report.

### A.2 Peak to Average Ratio

Refer to appendix report.

### A.3 Occupied Bandwidth

Refer to appendix report.

## A.4 Frequency Stability

Refer to appendix report.

### A.5 Spurious Emission at Antenna Terminals

Refer to appendix report.

## A.6 Band Edge Emission

Refer to appendix report.

# **A.7 Field Strength of Spurious Radiation**

| SM85 | 50 / Polarization:H  | lorizontal / CH      | :L             |                |                |                |          |     |
|------|----------------------|----------------------|----------------|----------------|----------------|----------------|----------|-----|
| No.  | Frequency<br>(MHz)   | Reading<br>(dBm)     | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
| 1    | 2937.417             | -35.86               | -29.62         | -65.48         | -13.00         | -52.48         | peak     | Р   |
| 2    | 4158.865             | -37.83               | -28.93         | -66.76         | -13.00         | -53.76         | peak     | Р   |
| 3    | 5318.615             | -37.23               | -27.11         | -64.34         | -13.00         | -51.34         | peak     | Р   |
| 4    | 9157.771             | -32.33               | -23.96         | -56.29         | -13.00         | -43.29         | peak     | Р   |
| 5    | 12329.837            | -29.15               | -21.81         | -50.96         | -13.00         | -37.96         | peak     | Р   |
| 6 *  | 15235.029            | -28.92               | -20.91         | -49.83         | -13.00         | -36.83         | peak     | Р   |
| SM85 | 50 / Polarization:V  | ertical / CH:L       |                |                |                |                |          |     |
| No.  | Frequency<br>(MHz)   | Reading<br>(dBm)     | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
| 1    | 2937.417             | -34.36               | -29.62         | -63.98         | -13.00         | -50.98         | peak     | Р   |
| 2    | 5188.039             | -32.63               | -27.21         | -59.84         | -13.00         | -46.84         | peak     | Р   |
| 3    | 6081.955             | -30.42               | -25.34         | -55.76         | -13.00         | -42.76         | peak     | Р   |
| 4    | 9655.200             | -29.21               | -23.54         | -52.75         | -13.00         | -39.75         | peak     | Р   |
| 5    | 11943.987            | -26.06               | -22.29         | -48.35         | -13.00         | -35.35         | peak     | Р   |
| 6 *  | 14994.752            | -26.35               | -20.41         | -46.76         | -13.00         | -33.76         | peak     | Р   |
| SM85 | 50 / Polarization: H | -<br>Horizontal / CH | ł:M            |                |                |                |          |     |
| No.  | Frequency<br>(MHz)   | Reading<br>(dBm)     | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
| 1    | 3283.171             | -36.12               | -29.25         | -65.37         | -13.00         | -52.37         | peak     | Р   |
| 2    | 5088.536             | -34.54               | -27.29         | -61.83         | -13.00         | -48.83         | peak     | Р   |
| 3    | 6743.051             | -31.64               | -25.16         | -56.80         | -13.00         | -43.80         | peak     | Р   |
| 4    | 9792.918             | -32.18               | -23.84         | -56.02         | -13.00         | -43.02         | peak     | Р   |
| 5 *  | 14698.665            | -28.98               | -20.88         | -49.86         | -13.00         | -36.86         | peak     | Р   |
| 6    | 16433.551            | -31.58               | -19.50         | -51.08         | -13.00         | -38.08         | peak     | Р   |
| SM85 | 50 / Polarization: \ | /ertical / CH:M      | 1              |                |                | 1.0            |          |     |
| No.  | Frequency<br>(MHz)   | Reading<br>(dBm)     | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
| 1    | 2928.939             | -34.42               | -29.63         | -64.05         | -13.00         | -51.05         | peak     | Р   |
| 2    | 4066.153             | -36.93               | -28.97         | -65.90         | -13.00         | -52.90         | peak     | Р   |
| 3    | 5830.640             | -34.61               | -25.88         | -60.49         | -13.00         | -47.49         | peak     | Р   |
| 4    | 7486.818             | -33.50               | -24.78         | -58.28         | -13.00         | -45.28         | peak     | Р   |
| 5    | 9841.155             | -33.53               | -23.95         | -57.48         | -13.00         | -44.48         | peak     | Р   |
| 6 *  | 14496.147            | -30.39               | -21.20         | -51.59         | -13.00         | -38.59         | peak     | Р   |

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#### GSM850 / Polarization: Horizontal / CH:H

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 2998.320           | -34.82           | -29.51         | -64.33         | -13.00         | -51.33         | peak     | Р   |
| 2   | 4038.044           | -34.37           | -28.99         | -63.36         | -13.00         | -50.36         | peak     | Р   |
| 3   | 5465.100           | -35.79           | -26.98         | -62.77         | -13.00         | -49.77         | peak     | Р   |
| 4   | 7076.516           | -34.58           | -24.91         | -59.49         | -13.00         | -46.49         | peak     | Р   |
| 5   | 8881.451           | -33.85           | -24.55         | -58.40         | -13.00         | -45.40         | peak     | Р   |
| 6 * | 12184.584          | -30.55           | -21.98         | -52.53         | -13.00         | -39.53         | peak     | Р   |

#### GSM850 / Polarization: Vertical / CH:H

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 2886.080           | -34.94           | -29.70         | -64.64         | -13.00         | -51.64         | peak     | Р   |
| 2   | 3600.284           | -38.13           | -29.04         | -67.17         | -13.00         | -54.17         | peak     | Р   |
| 3   | 5528.651           | -37.72           | -26.86         | -64.58         | -13.00         | -51.58         | peak     | Р   |
| 4   | 7486.818           | -34.00           | -24.78         | -58.78         | -13.00         | -45.78         | peak     | Р   |
| 5   | 10860.526          | -29.01           | -23.74         | -52.75         | -13.00         | -39.75         | peak     | Р   |
| 6 * | 13349.879          | -28.23           | -21.08         | -49.31         | -13.00         | -36.31         | peak     | Р   |

#### GSM1900 / Polarization: Horizontal / CH:L

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 3037.573           | -36.71           | -29.47         | -66.18         | -13.00         | -53.18         | peak     | Р   |
| 2   | 3826.688           | -36.13           | -29.02         | -65.15         | -13.00         | -52.15         | peak     | Р   |
| 3   | 5266.604           | -36.98           | -27.15         | -64.13         | -13.00         | -51.13         | peak     | Р   |
| 4   | 8546.510           | -30.34           | -25.23         | -55.57         | -13.00         | -42.57         | peak     | Р   |
| 5   | 10138.539          | -27.50           | -24.35         | -51.85         | -13.00         | -38.85         | peak     | Р   |
| 6 * | 14571.763          | -28.00           | -21.08         | -49.08         | -13.00         | -36.08         | peak     | Р   |

GSM1900 / Polarization: Vertical / CH:L

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 3206.272           | -36.52           | -29.32         | -65.84         | -13.00         | -52.84         | peak     | Р   |
| 2   | 5371.140           | -36.22           | -27.06         | -63.28         | -13.00         | -50.28         | peak     | Р   |
| 3   | 6890.821           | -35.28           | -25.03         | -60.31         | -13.00         | -47.31         | peak     | Р   |
| 4   | 8281.449           | -30.46           | -25.41         | -55.87         | -13.00         | -42.87         | peak     | Р   |
| 5   | 10860.526          | -29.01           | -23.74         | -52.75         | -13.00         | -39.75         | peak     | Р   |
| 6 * | 14753.999          | -28.28           | -20.80         | -49.08         | -13.00         | -36.08         | peak     | Р   |



#### GSM1900 / Polarization: Horizontal / CH:M

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 2890.254           | -33.96           | -29.70         | -63.66         | -13.00         | -50.66         | peak     | Р   |
| 2   | 3608.619           | -37.08           | -29.05         | -66.13         | -13.00         | -53.13         | peak     | Р   |
| 3   | 5580.024           | -35.82           | -26.69         | -62.51         | -13.00         | -49.51         | peak     | Р   |
| 4   | 7576.069           | -30.87           | -24.90         | -55.77         | -13.00         | -42.77         | peak     | Р   |
| 5 * | 11677.724          | -26.95           | -22.76         | -49.71         | -13.00         | -36.71         | peak     | Р   |
| 6   | 14571.763          | -29.00           | -21.08         | -50.08         | -13.00         | -37.08         | peak     | Р   |

#### GSM1900 / Polarization: Vertical / CH:M

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 2784.473           | -39.07           | -29.89         | -68.96         | -13.00         | -55.96         | peak     | Р   |
| 2   | 4525.107           | -35.70           | -28.71         | -64.41         | -13.00         | -51.41         | peak     | Р   |
| 3   | 5970.483           | -35.20           | -25.43         | -60.63         | -13.00         | -47.63         | peak     | Р   |
| 4   | 8281.449           | -30.96           | -25.41         | -56.37         | -13.00         | -43.37         | peak     | Р   |
| 5   | 11657.490          | -28.38           | -22.79         | -51.17         | -13.00         | -38.17         | peak     | Р   |
| 6 * | 15160.353          | -25.43           | -20.75         | -46.18         | -13.00         | -33.18         | peak     | Р   |

GSM1900 / Polarization: Horizontal / CH:H

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 2527.501           | -40.34           | -30.32         | -70.66         | -13.00         | -57.66         | peak     | Р   |
| 2   | 4022.900           | -38.31           | -28.99         | -67.30         | -13.00         | -54.30         | peak     | Р   |
| 3   | 5963.584           | -35.28           | -25.44         | -60.72         | -13.00         | -47.72         | peak     | Р   |
| 4   | 8786.975           | -29.92           | -24.74         | -54.66         | -13.00         | -41.66         | peak     | Р   |
| 5   | 10980.469          | -27.99           | -23.48         | -51.47         | -13.00         | -38.47         | peak     | Р   |
| 6 * | 14994.752          | -24.85           | -20.41         | -45.26         | -13.00         | -32.26         | peak     | Р   |

GSM1900 / Polarization: Vertical / CH:H

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 2448.406           | -36.68           | -30.43         | -67.11         | -13.00         | -54.11         | peak     | Р   |
| 2   | 3973.210           | -37.64           | -29.00         | -66.64         | -13.00         | -53.64         | peak     | Р   |
| 3   | 5544.654           | -36.75           | -26.80         | -63.55         | -13.00         | -50.55         | peak     | Р   |
| 4   | 8925.198           | -32.35           | -24.46         | -56.81         | -13.00         | -43.81         | peak     | Р   |
| 5   | 12329.837          | -27.65           | -21.81         | -49.46         | -13.00         | -36.46         | peak     | Р   |
| 6 * | 14852.408          | -28.24           | -20.64         | -48.88         | -13.00         | -35.88         | peak     | Р   |



#### WCDMA / Polarization: Horizontal / Band:2 / CH:L

|       | A / Polanzation. F  | ionzoniai / ba   | 110.2 / CH.L   |                |                |                |          |     |
|-------|---------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| No.   | Frequency<br>(MHz)  | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
| 1     | 3326.154            | -37.03           | -29.21         | -66.24         | -13.00         | -53.24         | peak     | Р   |
| 2     | 4913.649            | -37.04           | -27.61         | -64.65         | -13.00         | -51.65         | peak     | Р   |
| 3     | 6296.605            | -35.65           | -25.36         | -61.01         | -13.00         | -48.01         | peak     | Р   |
| 4     | 7748.810            | -31.80           | -25.16         | -56.96         | -13.00         | -43.96         | peak     | Р   |
| 5     | 11092.115           | -29.93           | -23.37         | -53.30         | -13.00         | -40.30         | peak     | Р   |
| 6 *   | 15341.080           | -27.68           | -21.15         | -48.83         | -13.00         | -35.83         | peak     | Р   |
| VCDM. | A / Polarization: \ | /ertical / Band  | :2 / CH:L      |                |                |                |          |     |
| No.   | Frequency<br>(MHz)  | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
| 1     | 3069.345            | -32.74           | -29.45         | -62.19         | -13.00         | -49.19         | peak     | Р   |
| 2     | 4679.398            | -33.92           | -28.28         | -62.20         | -13.00         | -49.20         | peak     | Р   |
| 3     | 6706.121            | -30.58           | -25.20         | -55.78         | -13.00         | -42.78         | peak     | Р   |
| 4     | 9610.652            | -28.91           | -23.44         | -52.35         | -13.00         | -39.35         | peak     | Р   |
| 5 *   | 14026.279           | -26.66           | -21.10         | -47.76         | -13.00         | -34.76         | peak     | Р   |
| 6     | 15704.483           | -26.83           | -21.53         | -48.36         | -13.00         | -35.36         | peak     | Р   |
| VCDM  | A / Polarization: H | lorizontal / Ba  | nd:2 / CH:M    |                |                |                |          |     |
| No.   | Frequency<br>(MHz)  | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
| 1     | 2685.667            | -39.27           | -30.05         | -69.32         | -13.00         | -56.32         | peak     | Р   |
| 2     | 3080.010            | -36.19           | -29.43         | -65.62         | -13.00         | -52.62         | peak     | Р   |
| 3     | 5216.608            | -36.85           | -27.19         | -64.04         | -13.00         | -51.04         | peak     | Р   |
| 4     | 7606.788            | -33.09           | -24.94         | -58.03         | -13.00         | -45.03         | peak     | Р   |
| 5     | 10989.995           | -29.38           | -23.47         | -52.85         | -13.00         | -39.85         | peak     | Р   |
| 6 *   | 14350.239           | -28.35           | -21.16         | -49.51         | -13.00         | -36.51         | peak     | Р   |
| VCDM  | A / Polarization: V | /ertical / Band  | :2 / CH:M      |                |                |                |          |     |
| No.   | Frequency<br>(MHz)  | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
| 1     | 2863.645            | -34.54           | -29.75         | -64.29         | -13.00         | -51.29         | peak     | Р   |
| 2     | 3699.443            | -34.14           | -29.03         | -63.17         | -13.00         | -50.17         | peak     | Р   |
| 3     | 4793.015            | -35.26           | -27.96         | -63.22         | -13.00         | -50.22         | peak     | Р   |
| 4     | 7082.655            | -32.05           | -24.91         | -56.96         | -13.00         | -43.96         | peak     | Р   |
| 5     | 10024.895           | -28.37           | -24.30         | -52.67         | -13.00         | -39.67         | peak     | Р   |
| 6 *   | 14383.460           | -26.53           | -21.17         | -47.70         | -13.00         | -34.70         | peak     | Р   |



#### WCDMA / Polarization: Horizontal / Band:2 / CH:H

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 2903.651           | -33.79           | -29.68         | -63.47         | -13.00         | -50.47         | peak     | Р   |
| 2   | 4502.926           | -33.43           | -28.77         | -62.20         | -13.00         | -49.20         | peak     | Р   |
| 3   | 6655.914           | -30.83           | -25.24         | -56.07         | -13.00         | -43.07         | peak     | Р   |
| 4   | 9342.243           | -29.60           | -23.55         | -53.15         | -13.00         | -40.15         | peak     | Р   |
| 5   | 12902.240          | -25.07           | -21.39         | -46.46         | -13.00         | -33.46         | peak     | Р   |
| 6 * | 15020.779          | -23.97           | -20.44         | -44.41         | -13.00         | -31.41         | peak     | Р   |

#### WCDMA / Polarization: Vertical / Band:2 / CH:H

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 2903.651           | -33.79           | -29.68         | -63.47         | -13.00         | -50.47         | peak     | Р   |
| 2   | 4550.026           | -32.60           | -28.64         | -61.24         | -13.00         | -48.24         | peak     | Р   |
| 3   | 6181.199           | -33.27           | -25.35         | -58.62         | -13.00         | -45.62         | peak     | Р   |
| 4   | 7748.810           | -32.80           | -25.16         | -57.96         | -13.00         | -44.96         | peak     | Р   |
| 5   | 10182.591          | -31.96           | -24.37         | -56.33         | -13.00         | -43.33         | peak     | Р   |
| 6 * | 12647.472          | -26.86           | -21.53         | -48.39         | -13.00         | -35.39         | peak     | Р   |

#### WCDMA / Polarization: Horizontal / Band:5 / CH:L

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 2602.374           | -39.02           | -30.20         | -69.22         | -13.00         | -56.22         | peak     | Р   |
| 2   | 4221.845           | -38.33           | -28.90         | -67.23         | -13.00         | -54.23         | peak     | Р   |
| 3   | 6320.309           | -35.36           | -25.36         | -60.72         | -13.00         | -47.72         | peak     | Р   |
| 4   | 9342.243           | -32.10           | -23.55         | -55.65         | -13.00         | -42.65         | peak     | Р   |
| 5   | 12480.428          | -29.90           | -21.64         | -51.54         | -13.00         | -38.54         | peak     | Р   |
| 6 * | 15452.335          | -27.25           | -21.39         | -48.64         | -13.00         | -35.64         | peak     | Р   |

WCDMA / Polarization: Vertical / Band:5 / CH:L

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 2939.115           | -39.09           | -29.61         | -68.70         | -13.00         | -55.70         | peak     | Р   |
| 2   | 4266.004           | -39.58           | -28.88         | -68.46         | -13.00         | -55.46         | peak     | Р   |
| 3   | 6423.443           | -36.59           | -25.37         | -61.96         | -13.00         | -48.96         | peak     | Р   |
| 4   | 8966.569           | -33.60           | -24.37         | -57.97         | -13.00         | -44.97         | peak     | Р   |
| 5   | 11540.154          | -31.36           | -22.99         | -54.35         | -13.00         | -41.35         | peak     | Р   |
| 6 * | 14990.418          | -31.51           | -20.41         | -51.92         | -13.00         | -38.92         | peak     | Р   |



11328.642

13925.292

16764.585

4

5

6 \*

-29.92

-29.26

-30.64

#### WCDMA / Polarization: Horizontal / Band:5 / CH:M

|      | A/ I Olalization. I | ionzontar/ Da    |                |                |                |                |          |     |
|------|---------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| No.  | Frequency<br>(MHz)  | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
| 1    | 2939.115            | -37.09           | -29.61         | -66.70         | -13.00         | -53.70         | peak     | Р   |
| 2    | 4550.026            | -38.10           | -28.64         | -66.74         | -13.00         | -53.74         | peak     | Р   |
| 3    | 6338.604            | -35.81           | -25.37         | -61.18         | -13.00         | -48.18         | peak     | Р   |
| 4    | 8563.819            | -32.83           | -25.19         | -58.02         | -13.00         | -45.02         | peak     | Р   |
| 5    | 12280.045           | -29.53           | -21.87         | -51.40         | -13.00         | -38.40         | peak     | Р   |
| 6 *  | 15046.851           | -28.26           | -20.50         | -48.76         | -13.00         | -35.76         | peak     | Р   |
| VCDM | A / Polarization: \ | /ertical / Band  | :5 / CH:M      |                |                |                |          |     |
| No.  | Frequency<br>(MHz)  | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
| 1    | 2969.858            | -33.52           | -29.56         | -63.08         | -13.00         | -50.08         | peak     | Р   |
| 2    | 4679.398            | -35.42           | -28.28         | -63.70         | -13.00         | -50.70         | peak     | Р   |
| 3    | 6475.639            | -38.69           | -25.38         | -64.07         | -13.00         | -51.07         | peak     | Р   |
| 4    | 10769.873           | -29.49           | -23.94         | -53.43         | -13.00         | -40.43         | peak     | Р   |
| 5 *  | 14383.460           | -29.03           | -21.17         | -50.20         | -13.00         | -37.20         | peak     | Р   |
| 6    | 16367.187           | -30.92           | -19.82         | -50.74         | -13.00         | -37.74         | peak     | Р   |
| VCDM | A / Polarization: H | Horizontal / Ba  | nd:5 / CH:H    |                |                |                |          |     |
| No.  | Frequency<br>(MHz)  | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
| 1    | 3053.418            | -37.98           | -29.46         | -67.44         | -13.00         | -54.44         | peak     | Р   |
| 2    | 4596.289            | -41.12           | -28.51         | -69.63         | -13.00         | -56.63         | peak     | Р   |
| 3    | 6537.700            | -38.17           | -25.35         | -63.52         | -13.00         | -50.52         | peak     | Р   |
| 4    | 9708.370            | -30.86           | -23.65         | -54.51         | -13.00         | -41.51         | peak     | Р   |
| 5    | 12935.847           | -30.52           | -21.38         | -51.90         | -13.00         | -38.90         | peak     | Р   |
| 6 *  | 15226.224           | -29.01           | -20.90         | -49.91         | -13.00         | -36.91         | peak     | Р   |
| VCDM | A / Polarization: \ | /ertical / Band  | :5 / CH:H      |                | 1.2.67         |                |          |     |
| No.  | Frequency<br>(MHz)  | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
| 1    | 3097.866            | -35.48           | -29.42         | -64.90         | -13.00         | -51.90         | peak     | Р   |
| 2    | 5186.539            | -36.25           | -27.21         | -63.46         | -13.00         | -50.46         | peak     | Р   |
| 3    | 7405.038            | -35.17           | -24.81         | -59.98         | -13.00         | -46.98         | peak     | Р   |
|      | 44000.040           |                  | 00.40          |                | 10.00          | 10.44          |          |     |

-53.11

-50.33

-49.35

-13.00

-13.00

-13.00

-40.11

-37.33

-36.35

peak

peak

peak

-23.19

-21.07

-18.71

Ρ

Ρ

Ρ



#### LTE / Polarization: Horizontal / Band:2 / CH:L

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 2691.106           | -32.50           | -30.04         | -62.54         | -13.00         | -49.54         | peak     | Р   |
| 2   | 3689.832           | -37.72           | -29.03         | -66.75         | -13.00         | -53.75         | peak     | Р   |
| 3   | 5191.039           | -36.82           | -27.21         | -64.03         | -13.00         | -51.03         | peak     | Р   |
| 4   | 6849.122           | -34.80           | -25.07         | -59.87         | -13.00         | -46.87         | peak     | Р   |
| 5   | 10895.111          | -30.66           | -23.67         | -54.33         | -13.00         | -41.33         | peak     | Р   |
| 6 * | 16390.857          | -28.92           | -19.71         | -48.63         | -13.00         | -35.63         | peak     | Р   |

#### LTE / Polarization: Vertical / Band:2 / CH:L

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 3006.999           | -38.33           | -29.51         | -67.84         | -13.00         | -54.84         | peak     | Р   |
| 2   | 4659.154           | -37.78           | -28.33         | -66.11         | -13.00         | -53.11         | peak     | Р   |
| 3   | 7179.527           | -36.39           | -24.88         | -61.27         | -13.00         | -48.27         | peak     | Р   |
| 4   | 9552.494           | -33.29           | -23.32         | -56.61         | -13.00         | -43.61         | peak     | Р   |
| 5   | 12570.937          | -32.13           | -21.57         | -53.70         | -13.00         | -40.70         | peak     | Р   |
| 6 * | 17331.192          | -33.69           | -16.98         | -50.67         | -13.00         | -37.67         | peak     | Р   |

#### LTE / Polarization: Horizontal / Band:2 / CH:M

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 2942.515           | -37.01           | -29.61         | -66.62         | -13.00         | -53.62         | peak     | Р   |
| 2   | 3903.772           | -37.63           | -29.01         | -66.64         | -13.00         | -53.64         | peak     | Р   |
| 3   | 5626.993           | -37.26           | -26.54         | -63.80         | -13.00         | -50.80         | peak     | Р   |
| 4   | 9237.525           | -30.49           | -23.78         | -54.27         | -13.00         | -41.27         | peak     | Р   |
| 5   | 11816.934          | -29.91           | -22.51         | -52.42         | -13.00         | -39.42         | peak     | Р   |
| 6 * | 14491.958          | -30.50           | -21.20         | -51.70         | -13.00         | -38.70         | peak     | Р   |

LTE / Polarization: Vertical / Band:2 / CH:M

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 2929.786           | -36.61           | -29.63         | -66.24         | -13.00         | -53.24         | peak     | Р   |
| 2   | 3856.668           | -40.05           | -29.01         | -69.06         | -13.00         | -56.06         | peak     | Р   |
| 3   | 4949.283           | -38.28           | -27.51         | -65.79         | -13.00         | -52.79         | peak     | Р   |
| 4   | 7303.011           | -35.68           | -24.84         | -60.52         | -13.00         | -47.52         | peak     | Р   |
| 5   | 11240.577          | -32.22           | -23.26         | -55.48         | -13.00         | -42.48         | peak     | Р   |
| 6 * | 14660.479          | -29.86           | -20.94         | -50.80         | -13.00         | -37.80         | peak     | Р   |



#### LTE / Polarization: Horizontal / Band:2 / CH:H

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 3013.089           | -38.64           | -29.50         | -68.14         | -13.00         | -55.14         | peak     | Р   |
| 2   | 4701.088           | -38.22           | -28.22         | -66.44         | -13.00         | -53.44         | peak     | Р   |
| 3   | 6711.939           | -36.30           | -25.19         | -61.49         | -13.00         | -48.49         | peak     | Р   |
| 4   | 8889.155           | -33.72           | -24.54         | -58.26         | -13.00         | -45.26         | peak     | Р   |
| 5   | 11580.250          | -30.27           | -22.92         | -53.19         | -13.00         | -40.19         | peak     | Р   |
| 6 * | 14830.959          | -30.89           | -20.67         | -51.56         | -13.00         | -38.56         | peak     | Р   |

#### LTE / Polarization: Vertical / Band:2 / CH:H

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 3032.310           | -40.33           | -29.48         | -69.81         | -13.00         | -56.81         | peak     | Р   |
| 2   | 4264.771           | -40.17           | -28.88         | -69.05         | -13.00         | -56.05         | peak     | Р   |
| 3   | 6916.762           | -36.82           | -25.01         | -61.83         | -13.00         | -48.83         | peak     | Р   |
| 4   | 10423.798          | -32.93           | -24.48         | -57.41         | -13.00         | -44.41         | peak     | Р   |
| 5   | 13489.514          | -33.02           | -20.98         | -54.00         | -13.00         | -41.00         | peak     | Р   |
| 6 * | 16745.214          | -32.91           | -18.74         | -51.65         | -13.00         | -38.65         | peak     | Р   |

#### LTE / Polarization: Horizontal / Band:4 / CH:L

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 2966.426           | -37.84           | -29.56         | -67.40         | -13.00         | -54.40         | peak     | Р   |
| 2   | 4345.653           | -37.55           | -28.85         | -66.40         | -13.00         | -53.40         | peak     | Р   |
| 3   | 6481.256           | -36.29           | -25.38         | -61.67         | -13.00         | -48.67         | peak     | Р   |
| 4   | 8889.155           | -34.72           | -24.54         | -59.26         | -13.00         | -46.26         | peak     | Р   |
| 5   | 11816.934          | -31.41           | -22.51         | -53.92         | -13.00         | -40.92         | peak     | Р   |
| 6 * | 15479.156          | -28.93           | -21.45         | -50.38         | -13.00         | -37.38         | peak     | Р   |

LTE / Polarization: Vertical / Band:4 / CH:L

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 2571.716           | -37.50           | -30.25         | -67.75         | -13.00         | -54.75         | peak     | Р   |
| 2   | 3397.080           | -34.27           | -29.15         | -63.42         | -13.00         | -50.42         | peak     | Р   |
| 3   | 4804.110           | -35.17           | -27.92         | -63.09         | -13.00         | -50.09         | peak     | Р   |
| 4   | 6657.838           | -31.73           | -25.24         | -56.97         | -13.00         | -43.97         | peak     | Р   |
| 5 * | 12262.311          | -26.31           | -21.89         | -48.20         | -13.00         | -35.20         | peak     | Р   |
| 6   | 15841.250          | -27.58           | -21.56         | -49.14         | -13.00         | -36.14         | peak     | Р   |



#### LTE / Polarization: Horizontal / Band:4 / CH:M

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 2507.129           | -33.34           | -30.35         | -63.69         | -13.00         | -50.69         | peak     | Р   |
| 2   | 3670.685           | -38.60           | -29.03         | -67.63         | -13.00         | -54.63         | peak     | Р   |
| 3   | 5335.552           | -33.81           | -27.09         | -60.90         | -13.00         | -47.90         | peak     | Р   |
| 4   | 8475.171           | -30.26           | -25.33         | -55.59         | -13.00         | -42.59         | peak     | Р   |
| 5   | 11735.245          | -27.94           | -22.66         | -50.60         | -13.00         | -37.60         | peak     | Р   |
| 6 * | 15025.121          | -27.67           | -20.46         | -48.13         | -13.00         | -35.13         | peak     | Р   |

#### LTE / Polarization: Vertical / Band:4 / CH:M

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 3208.126           | -35.63           | -29.32         | -64.95         | -13.00         | -51.95         | peak     | Р   |
| 2   | 4193.872           | -38.60           | -28.92         | -67.52         | -13.00         | -54.52         | peak     | Р   |
| 3   | 5496.784           | -38.36           | -26.95         | -65.31         | -13.00         | -52.31         | peak     | Р   |
| 4   | 9326.056           | -32.47           | -23.58         | -56.05         | -13.00         | -43.05         | peak     | Р   |
| 5   | 12973.290          | -29.70           | -21.35         | -51.05         | -13.00         | -38.05         | peak     | Р   |
| 6 * | 16282.255          | -29.11           | -20.23         | -49.34         | -13.00         | -36.34         | peak     | Р   |

#### LTE / Polarization: Horizontal / Band:4 / CH:H

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 3218.342           | -34.41           | -29.32         | -63.73         | -13.00         | -50.73         | peak     | Р   |
| 2   | 4701.088           | -32.22           | -28.22         | -60.44         | -13.00         | -47.44         | peak     | Р   |
| 3   | 6347.771           | -29.62           | -25.37         | -54.99         | -13.00         | -41.99         | peak     | Р   |
| 4   | 8448.268           | -28.96           | -25.34         | -54.30         | -13.00         | -41.30         | peak     | Р   |
| 5   | 11211.375          | -27.89           | -23.28         | -51.17         | -13.00         | -38.17         | peak     | Р   |
| 6 * | 14341.946          | -26.62           | -21.17         | -47.79         | -13.00         | -34.79         | peak     | Р   |

LTE / Polarization: Vertical / Band:4 / CH:H

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 2929.786           | -32.11           | -29.63         | -61.74         | -13.00         | -48.74         | peak     | Р   |
| 2   | 5324.768           | -34.08           | -27.10         | -61.18         | -13.00         | -48.18         | peak     | Р   |
| 3   | 6509.417           | -30.75           | -25.37         | -56.12         | -13.00         | -43.12         | peak     | Р   |
| 4   | 9155.125           | -28.98           | -23.97         | -52.95         | -13.00         | -39.95         | peak     | Р   |
| 5   | 12647.472          | -26.98           | -21.53         | -48.51         | -13.00         | -35.51         | peak     | Р   |
| 6 * | 15336.647          | -25.81           | -21.14         | -46.95         | -13.00         | -33.95         | peak     | Р   |



#### LTE / Polarization: Horizontal / Band:5 / CH:L

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 3118.528           | -29.84           | -29.41         | -59.25         | -13.00         | -46.25         | peak     | Р   |
| 2   | 4099.194           | -31.54           | -28.96         | -60.50         | -13.00         | -47.50         | peak     | Р   |
| 3   | 6101.323           | -30.07           | -25.34         | -55.41         | -13.00         | -42.41         | peak     | Р   |
| 4   | 8122.617           | -26.97           | -25.48         | -52.45         | -13.00         | -39.45         | peak     | Р   |
| 5   | 11617.127          | -27.01           | -22.86         | -49.87         | -13.00         | -36.87         | peak     | Р   |
| 6 * | 14635.076          | -28.60           | -20.98         | -49.58         | -13.00         | -36.58         | peak     | Р   |

#### LTE / Polarization: Vertical / Band:5 / CH:L

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 3088.925           | -34.33           | -29.43         | -63.76         | -13.00         | -50.76         | peak     | Р   |
| 2   | 4586.999           | -38.05           | -28.54         | -66.59         | -13.00         | -53.59         | peak     | Р   |
| 3   | 7070.382           | -32.96           | -24.91         | -57.87         | -13.00         | -44.87         | peak     | Р   |
| 4   | 10289.097          | -30.88           | -24.42         | -55.30         | -13.00         | -42.30         | peak     | Р   |
| 5   | 12473.215          | -28.81           | -21.65         | -50.46         | -13.00         | -37.46         | peak     | Р   |
| 6 * | 15336.647          | -25.31           | -21.14         | -46.45         | -13.00         | -33.45         | peak     | Р   |

#### LTE / Polarization: Horizontal / Band:5/ CH:M

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 2751.671           | -35.23           | -29.94         | -65.17         | -13.00         | -52.17         | peak     | Р   |
| 2   | 4264.771           | -37.17           | -28.88         | -66.05         | -13.00         | -53.05         | peak     | Р   |
| 3   | 5552.673           | -35.80           | -26.78         | -62.58         | -13.00         | -49.58         | peak     | Р   |
| 4   | 6940.794           | -35.60           | -24.99         | -60.59         | -13.00         | -47.59         | peak     | Р   |
| 5   | 8688.480           | -32.13           | -24.94         | -57.07         | -13.00         | -44.07         | peak     | Р   |
| 6 * | 12939.586          | -29.21           | -21.37         | -50.58         | -13.00         | -37.58         | peak     | Р   |

LTE / Polarization: Vertical / Band:5 / CH:M

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 2966.426           | -40.34           | -29.56         | -69.90         | -13.00         | -56.90         | peak     | Р   |
| 2   | 4748.887           | -39.62           | -28.08         | -67.70         | -13.00         | -54.70         | peak     | Р   |
| 3   | 6154.458           | -38.65           | -25.34         | -63.99         | -13.00         | -50.99         | peak     | Р   |
| 4   | 9730.844           | -32.64           | -23.70         | -56.34         | -13.00         | -43.34         | peak     | Р   |
| 5   | 12872.441          | -27.16           | -21.41         | -48.57         | -13.00         | -35.57         | peak     | Р   |
| 6 * | 15722.650          | -26.34           | -21.53         | -47.87         | -13.00         | -34.87         | peak     | Р   |



#### LTE / Polarization: Horizontal / Band:5 / CH:H

|         |                     | ontar / Dana.o   | / 011.11       |                |                |                |          |     |
|---------|---------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| No.     | Frequency<br>(MHz)  | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
| 1       | 2857.031            | -34.09           | -29.75         | -63.84         | -13.00         | -50.84         | peak     | Р   |
| 2       | 4701.088            | -38.72           | -28.22         | -66.94         | -13.00         | -53.94         | peak     | Р   |
| 3       | 6972.967            | -36.42           | -24.96         | -61.38         | -13.00         | -48.38         | peak     | Р   |
| 4       | 10384.705           | -30.49           | -24.46         | -54.95         | -13.00         | -41.95         | peak     | Р   |
| 5       | 13733.429           | -28.06           | -21.02         | -49.08         | -13.00         | -36.08         | peak     | Р   |
| 6 *     | 17211.383           | -31.26           | -17.45         | -48.71         | -13.00         | -35.71         | peak     | Р   |
| TE / P  | olarization: Vertic | al / Band:5 / C  | H:H            |                |                |                |          |     |
| No.     | Frequency<br>(MHz)  | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
| 1       | 2912.898            | -33.75           | -29.66         | -63.41         | -13.00         | -50.41         | peak     | Р   |
| 2       | 3694.100            | -37.05           | -29.04         | -66.09         | -13.00         | -53.09         | peak     | Р   |
| 3       | 5946.372            | -35.04           | -25.50         | -60.54         | -13.00         | -47.54         | peak     | Р   |
| 4       | 8172.069            | -30.76           | -25.46         | -56.22         | -13.00         | -43.22         | peak     | Р   |
| 5       | 10321.863           | -29.82           | -24.43         | -54.25         | -13.00         | -41.25         | peak     | Р   |
| 6 *     | 14201.694           | -28.89           | -21.13         | -50.02         | -13.00         | -37.02         | peak     | Р   |
| .TE / P | olarization: Horizo | ontal / Band:1   | 2 / CH:L       |                |                |                |          |     |
| No.     | Frequency<br>(MHz)  | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
| 1       | 3118.528            | -36.84           | -29.41         | -66.25         | -13.00         | -53.25         | peak     | Р   |
| 2       | 5144.734            | -36.05           | -27.25         | -63.30         | -13.00         | -50.30         | peak     | Р   |
| 3       | 6833.303            | -32.31           | -25.08         | -57.39         | -13.00         | -44.39         | peak     | Р   |
| 4       | 9237.525            | -31.99           | -23.78         | -55.77         | -13.00         | -42.77         | peak     | Р   |
| 5       | 12114.352           | -32.29           | -22.06         | -54.35         | -13.00         | -41.35         | peak     | Р   |
| 6 *     | 15336.647           | -29.31           | -21.14         | -50.45         | -13.00         | -37.45         | peak     | Р   |
| .TE / P | olarization: Vertic | al / Band:12 /   | CH:L           |                |                |                |          |     |
| No.     | Frequency           | Reading          | Factor         | Level          | Limit          | Margin         | Detector | P/F |

| No. | (MHz)     | (dBm)  | (dB)   | (dBm)  | (dBm)  | (dB)   | Detector | P/F |
|-----|-----------|--------|--------|--------|--------|--------|----------|-----|
| 1   | 3127.555  | -35.78 | -29.39 | -65.17 | -13.00 | -52.17 | peak     | Р   |
| 2   | 5118.037  | -38.33 | -27.27 | -65.60 | -13.00 | -52.60 | peak     | Р   |
| 3   | 7154.668  | -33.53 | -24.88 | -58.41 | -13.00 | -45.41 | peak     | Р   |
| 4   | 9237.525  | -31.49 | -23.78 | -55.27 | -13.00 | -42.27 | peak     | Р   |
| 5 * | 12731.831 | -26.09 | -21.49 | -47.58 | -13.00 | -34.58 | peak     | Р   |
| 6   | 14491.958 | -27.00 | -21.20 | -48.20 | -13.00 | -35.20 | peak     | Р   |



#### LTE / Polarization: Horizontal / Band:12 / CH:M

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 3141.144           | -31.94           | -29.38         | -61.32         | -13.00         | -48.32         | peak     | Р   |
| 2   | 4299.426           | -36.32           | -28.87         | -65.19         | -13.00         | -52.19         | peak     | Р   |
| 3   | 5298.668           | -35.27           | -27.12         | -62.39         | -13.00         | -49.39         | peak     | Р   |
| 4   | 7171.231           | -30.44           | -24.88         | -55.32         | -13.00         | -42.32         | peak     | Р   |
| 5   | 9097.094           | -29.06           | -24.09         | -53.15         | -13.00         | -40.15         | peak     | Р   |
| 6 * | 15841.250          | -28.08           | -21.56         | -49.64         | -13.00         | -36.64         | peak     | Р   |

#### LTE / Polarization: Vertical / Band:12 / CH:M

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 2942.515           | -30.51           | -29.61         | -60.12         | -13.00         | -47.12         | peak     | Р   |
| 2   | 3966.326           | -33.88           | -29.00         | -62.88         | -13.00         | -49.88         | peak     | Р   |
| 3   | 6012.043           | -31.31           | -25.33         | -56.64         | -13.00         | -43.64         | peak     | Р   |
| 4   | 8271.879           | -27.23           | -25.42         | -52.65         | -13.00         | -39.65         | peak     | Р   |
| 5   | 11851.139          | -24.43           | -22.45         | -46.88         | -13.00         | -33.88         | peak     | Р   |
| 6 * | 16745.214          | -26.41           | -18.74         | -45.15         | -13.00         | -32.15         | peak     | Р   |

#### LTE / Polarization: Horizontal / Band:12 / CH:H

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 2583.637           | -38.45           | -30.23         | -68.68         | -13.00         | -55.68         | peak     | Р   |
| 2   | 3374.572           | -32.64           | -29.16         | -61.80         | -13.00         | -48.80         | peak     | Р   |
| 3   | 5150.685           | -35.67           | -27.24         | -62.91         | -13.00         | -49.91         | peak     | Р   |
| 4   | 7396.481           | -30.91           | -24.81         | -55.72         | -13.00         | -42.72         | peak     | Р   |
| 5   | 12202.206          | -30.49           | -21.96         | -52.45         | -13.00         | -39.45         | peak     | Р   |
| 6 * | 14741.211          | -27.71           | -20.81         | -48.52         | -13.00         | -35.52         | peak     | Р   |

LTE / Polarization: Vertical / Band:12 / CH:H

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 2889.419           | -29.84           | -29.70         | -59.54         | -13.00         | -46.54         | peak     | Р   |
| 2   | 3127.555           | -31.78           | -29.39         | -61.17         | -13.00         | -48.17         | peak     | Р   |
| 3   | 5043.146           | -33.67           | -27.33         | -61.00         | -13.00         | -48.00         | peak     | Р   |
| 4   | 7827.598           | -29.38           | -25.27         | -54.65         | -13.00         | -41.65         | peak     | Р   |
| 5   | 10636.847          | -29.34           | -24.22         | -53.56         | -13.00         | -40.56         | peak     | Р   |
| 6 * | 14635.076          | -28.60           | -20.98         | -49.58         | -13.00         | -36.58         | peak     | Р   |



#### LTE / Polarization: Horizontal / Band:13 / CH:L

|         | olarization. Honz   | untar / Danu. I  | 5 / OH.L       |                |                |                |          |     |
|---------|---------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| No.     | Frequency<br>(MHz)  | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
| 1 *     | 1595.797            | -46.71           | -31.55         | -78.26         | -40.00         | -38.26         | peak     | Р   |
| 2       | 2279.044            | -40.20           | -30.62         | -70.82         | -13.00         | -57.82         | peak     | Р   |
| 3       | 3806.830            | -38.72           | -29.02         | -67.74         | -13.00         | -54.74         | peak     | Р   |
| 4       | 5891.627            | -38.11           | -25.68         | -63.79         | -13.00         | -50.79         | peak     | Р   |
| 5       | 9131.340            | -32.66           | -24.02         | -56.68         | -13.00         | -43.68         | peak     | Р   |
| 6       | 14091.296           | -32.18           | -21.10         | -53.28         | -13.00         | -40.28         | peak     | Р   |
| .TE / P | olarization: Vertic | al / Band:13 /   | CH:L           |                |                |                |          |     |
| No.     | Frequency<br>(MHz)  | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
| 1 *     | 1567.454            | -44.69           | -31.60         | -76.29         | -40.00         | -36.29         | peak     | Р   |
| 2       | 2670.186            | -40.82           | -30.08         | -70.90         | -13.00         | -57.90         | peak     | Р   |
| 3       | 3291.723            | -39.13           | -29.24         | -68.37         | -13.00         | -55.37         | peak     | Р   |
| 4       | 5216.608            | -35.86           | -27.19         | -63.05         | -13.00         | -50.05         | peak     | Р   |
| 5       | 8956.208            | -29.51           | -24.40         | -53.91         | -13.00         | -40.91         | peak     | Р   |
| 6       | 12128.365           | -30.62           | -22.04         | -52.66         | -13.00         | -39.66         | peak     | Р   |
| TE / P  | olarization: Horiz  | ontal / Band:1   | 3 / CH:M       |                |                |                |          |     |
| No.     | Frequency<br>(MHz)  | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|         | 4 500 704           |                  | 01.00          |                | 10.00          |                |          | -   |

|     | (         | (abiii) | (42)   | (abiii) | (abiii) | (42)   |      |   |
|-----|-----------|---------|--------|---------|---------|--------|------|---|
| 1 * | 1569.721  | -44.15  | -31.60 | -75.75  | -40.00  | -35.75 | peak | Р |
| 2   | 2526.771  | -41.91  | -30.32 | -72.23  | -13.00  | -59.23 | peak | Р |
| 3   | 2966.426  | -39.07  | -29.56 | -68.63  | -13.00  | -55.63 | peak | Р |
| 4   | 4531.651  | -37.61  | -28.70 | -66.31  | -13.00  | -53.31 | peak | Р |
| 5   | 6401.202  | -34.80  | -25.37 | -60.17  | -13.00  | -47.17 | peak | Р |
| 6   | 11738.638 | -29.25  | -22.64 | -51.89  | -13.00  | -38.89 | peak | P |

LTE / Polarization: Vertical / Band:13 / CH:M

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1 * | 1582.019           | -43.69           | -31.58         | -75.27         | -40.00         | -35.27         | peak     | Р   |
| 2   | 2663.249           | -39.06           | -30.09         | -69.15         | -13.00         | -56.15         | peak     | Р   |
| 3   | 3424.684           | -39.53           | -29.12         | -68.65         | -13.00         | -55.65         | peak     | Р   |
| 4   | 5770.285           | -34.32           | -26.08         | -60.40         | -13.00         | -47.40         | peak     | Р   |
| 5   | 9320.666           | -30.21           | -23.60         | -53.81         | -13.00         | -40.81         | peak     | P   |
| 6   | 12706.097          | -27.04           | -21.50         | -48.54         | -13.00         | -35.54         | peak     | P   |



#### LTE / Polarization: Horizontal / Band:13 / CH:H

| _   _ / |                     | ontar / Duna. n  | 07 011.11      |                |                |                |          |     |
|---------|---------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| No.     | Frequency<br>(MHz)  | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
| 1 *     | 1569.754            | -45.13           | -30.66         | -75.79         | -40.00         | -35.79         | peak     | Р   |
| 2       | 2271.153            | -37.54           | -30.62         | -68.16         | -13.00         | -55.16         | peak     | Р   |
| 3       | 2814.411            | -36.47           | -29.83         | -66.30         | -13.00         | -53.30         | peak     | Р   |
| 4       | 4259.843            | -37.66           | -28.89         | -66.55         | -13.00         | -53.55         | peak     | Р   |
| 5       | 6181.199            | -36.48           | -25.35         | -61.83         | -13.00         | -48.83         | peak     | Р   |
| 6       | 10578.593           | -29.52           | -24.34         | -53.86         | -13.00         | -40.86         | peak     | Р   |
| _TE / P | olarization: Vertic | al / Band:13 /   | CH:H           |                |                |                |          |     |
| No.     | Frequency<br>(MHz)  | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
| 1 *     | 1602.267            | -43.97           | -31.55         | -75.52         | -40.00         | -35.52         | peak     | Р   |
| 2       | 2442.751            | -35.89           | -30.43         | -66.32         | -13.00         | -53.32         | peak     | Р   |
| 3       | 3191.478            | -40.17           | -29.33         | -69.50         | -13.00         | -56.50         | peak     | Р   |
| 4       | 5027.137            | -40.63           | -27.34         | -67.97         | -13.00         | -54.97         | peak     | Р   |
| 5       | 6853.083            | -38.96           | -25.06         | -64.02         | -13.00         | -51.02         | peak     | Р   |
| 6       | 10782.332           | -33.46           | -23.91         | -57.37         | -13.00         | -44.37         | peak     | Р   |
| _TE / P | olarization: Horizo | ontal / Band:2   | 5 / CH:L       |                |                |                |          |     |
| No.     | Frequency<br>(MHz)  | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
| 1       | 3127.555            | -33.78           | -29.39         | -63.17         | -13.00         | -50.17         | peak     | Р   |
| 2       | 4299.426            | -34.82           | -28.87         | -63.69         | -13.00         | -50.69         | peak     | Р   |
| 3       | 6492.506            | -29.64           | -25.38         | -55.02         | -13.00         | -42.02         | peak     | Р   |
| 4       | 9005.529            | -28.92           | -24.30         | -53.22         | -13.00         | -40.22         | peak     | Р   |
| 5       | 13338.308           | -29.35           | -21.09         | -50.44         | -13.00         | -37.44         | peak     | Р   |
| 6 *     | 16044.000           | -27.85           | -21.38         | -49.23         | -13.00         | -36.23         | peak     | Р   |

LTE / Polarization: Vertical / Band:25 / CH:L

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 3064.913           | -34.92           | -29.45         | -64.37         | -13.00         | -51.37         | peak     | Р   |
| 2   | 5218.116           | -36.29           | -27.19         | -63.48         | -13.00         | -50.48         | peak     | Р   |
| 3   | 8047.836           | -31.83           | -25.51         | -57.34         | -13.00         | -44.34         | peak     | Р   |
| 4   | 11240.577          | -30.72           | -23.26         | -53.98         | -13.00         | -40.98         | peak     | Р   |
| 5   | 13063.597          | -28.93           | -21.29         | -50.22         | -13.00         | -37.22         | peak     | Р   |
| 6 * | 15586.907          | -27.37           | -21.51         | -48.88         | -13.00         | -35.88         | peak     | Р   |



#### LTE / Polarization: Horizontal / Band:25 / CH:M

| No.     | Frequency<br>(MHz)  | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F   |
|---------|---------------------|------------------|----------------|----------------|----------------|----------------|----------|-------|
| 1       | 2716.897            | -36.74           | -29.99         | -66.73         | -13.00         | -53.73         | peak     | Р     |
| 2       | 4840.349            | -37.10           | -27.82         | -64.92         | -13.00         | -51.92         | peak     | Р     |
| 3       | 6940.794            | -33.10           | -24.99         | -58.09         | -13.00         | -45.09         | peak     | Р     |
| 4       | 9958.472            | -32.20           | -24.20         | -56.40         | -13.00         | -43.40         | peak     | Р     |
| 5 *     | 13489.514           | -30.02           | -20.98         | -51.00         | -13.00         | -38.00         | peak     | Р     |
| 6       | 15960.745           | -30.11           | -21.59         | -51.70         | -13.00         | -38.70         | peak     | Р     |
| LTE / P | olarization: Vertic | al / Band:25 /   | CH:M           |                |                |                |          |       |
| No.     | Frequency<br>(MHz)  | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F   |
| 1       | 2845.493            | -39.09           | -29.77         | -68.86         | -13.00         | -55.86         | peak     | Р     |
| 2       | 3734.898            | -39.76           | -29.03         | -68.79         | -13.00         | -55.79         | peak     | Р     |
| 3       | 4895.220            | -39.14           | -27.67         | -66.81         | -13.00         | -53.81         | peak     | Р     |
| 4       | 7107.263            | -38.88           | -24.90         | -63.78         | -13.00         | -50.78         | peak     | Р     |
| 5       | 9301.827            | -36.85           | -23.64         | -60.49         | -13.00         | -47.49         | peak     | Р     |
| 6 *     | 13044.732           | -34.48           | -21.30         | -55.78         | -13.00         | -42.78         | peak     | Р     |
| LTE / P | olarization: Horizo | ontal / Band:2   | 5 / CH:H       |                |                |                |          |       |
| No.     | Frequency<br>(MHz)  | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F   |
| 1       | 2824.190            | -38.69           | -29.82         | -68.51         | -13.00         | -55.51         | peak     | Р     |
| 2       | 3854.439            | -40.58           | -29.01         | -69.59         | -13.00         | -56.59         | peak     | Р     |
| 3       | 5594.559            | -41.76           | -26.64         | -68.40         | -13.00         | -55.40         | peak     | Р     |
| 4       | 8889.155            | -31.22           | -24.54         | -55.76         | -13.00         | -42.76         | peak     | Р     |
| 5       | 11443.827           | -28.89           | -23.11         | -52.00         | -13.00         | -39.00         | peak     | Р     |
| 6 *     | 14429.263           | -29.12           | -21.18         | -50.30         | -13.00         | -37.30         | peak     | Р     |
| LTE / P | olarization: Vertic | al / Band:25 /   | CH:H           |                |                |                |          | 1.000 |
| No.     | Frequency<br>(MHz)  | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F   |
| 1       | 3152.058            | -38.52           | -29.37         | -67.89         | -13.00         | -54.89         | peak     | Р     |
| 2       | 4248.776            | -40.55           | -28.89         | -69.44         | -13.00         | -56.44         | peak     | Р     |
| 3       | 5443.030            | -41.15           | -27.00         | -68.15         | -13.00         | -55.15         | peak     | Р     |
| 4       | 6972.967            | -37.42           | -24.96         | -62.38         | -13.00         | -49.38         | peak     | Р     |
| 5       | 9958.472            | -31.70           | -24.20         | -55.90         | -13.00         | -42.90         | peak     | Р     |
| 6 *     | 13685.878           | -28.95           | -21.01         | -49.96         | -13.00         | -36.96         | peak     | Р     |
|         |                     |                  |                |                |                |                | -        |       |

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| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 2258.062           | -34.77           | -30.64         | -65.41         | -13.00         | -52.41         | peak     | Р   |
| 2   | 2942.515           | -38.51           | -29.61         | -68.12         | -13.00         | -55.12         | peak     | Р   |
| 3   | 4748.887           | -41.62           | -28.08         | -69.70         | -13.00         | -56.70         | peak     | Р   |
| 4   | 6596.542           | -39.09           | -25.29         | -64.38         | -13.00         | -51.38         | peak     | Р   |
| 5   | 9671.959           | -32.31           | -23.58         | -55.89         | -13.00         | -42.89         | peak     | Р   |
| 6 * | 14201.694          | -29.39           | -21.13         | -50.52         | -13.00         | -37.52         | peak     | Р   |

#### LTE / Polarization: Horizontal / Band:26 (part22)/ CH:L

#### LTE / Polarization: Vertical / Band:26(Part22) / CH:L

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 2476.162           | -38.28           | -30.40         | -68.68         | -13.00         | -55.68         | peak     | Р   |
| 2   | 3768.514           | -38.50           | -29.02         | -67.52         | -13.00         | -54.52         | peak     | Р   |
| 3   | 5400.718           | -41.30           | -27.03         | -68.33         | -13.00         | -55.33         | peak     | Р   |
| 4   | 8172.069           | -33.76           | -25.46         | -59.22         | -13.00         | -46.22         | peak     | Р   |
| 5   | 11677.724          | -31.81           | -22.76         | -54.57         | -13.00         | -41.57         | peak     | Р   |
| 6 * | 14185.284          | -29.36           | -21.13         | -50.49         | -13.00         | -37.49         | peak     | Р   |

#### LTE / Polarization: Horizontal / Band:26 (part22)/ CH:M

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 2507.129           | -34.84           | -30.35         | -65.19         | -13.00         | -52.19         | peak     | Р   |
| 2   | 3242.619           | -37.90           | -29.29         | -67.19         | -13.00         | -54.19         | peak     | Р   |
| 3   | 4304.400           | -38.75           | -28.87         | -67.62         | -13.00         | -54.62         | peak     | Р   |
| 4   | 6719.703           | -37.03           | -25.18         | -62.21         | -13.00         | -49.21         | peak     | Р   |
| 5   | 9326.056           | -35.97           | -23.58         | -59.55         | -13.00         | -46.55         | peak     | Р   |
| 6 * | 12835.288          | -32.54           | -21.43         | -53.97         | -13.00         | -40.97         | peak     | Р   |

LTE / Polarization: Vertical / Band:26(Part22) / CH:M

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 2368.360           | -34.94           | -30.51         | -65.45         | -13.00         | -52.45         | peak     | Р   |
| 2   | 3292.675           | -36.41           | -29.24         | -65.65         | -13.00         | -52.65         | peak     | Р   |
| 3   | 4299.426           | -38.82           | -28.87         | -67.69         | -13.00         | -54.69         | peak     | Р   |
| 4   | 6564.209           | -35.46           | -25.32         | -60.78         | -13.00         | -47.78         | peak     | Р   |
| 5   | 9486.459           | -35.64           | -23.23         | -58.87         | -13.00         | -45.87         | peak     | Р   |
| 6 * | 12872.441          | -32.16           | -21.41         | -53.57         | -13.00         | -40.57         | peak     | Р   |



4

5

6 \*

8608.490

11331.917

15586.907

-32.77

-30.04

-29.37

#### LTE / Polarization: Horizontal / Band:26 (part22)/ CH:H

|         | Dianzation. Honzo   | untal / Danu.z   | o (partzz)/ Cr | п.п            |                |                |   |     |
|---------|---------------------|------------------|----------------|----------------|----------------|----------------|---|-----|
| No.     | Frequency<br>(MHz)  | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector  | P/F |
| 1       | 2267.873            | -33.37           | -30.63         | -64.00         | -13.00         | -51.00         | peak  | Р   |
| 2       | 2973.293            | -36.54           | -29.56         | -66.10         | -13.00         | -53.10         | peak  | Р   |
| 3       | 4576.404            | -36.66           | -28.57         | -65.23         | -13.00         | -52.23         | peak  | Р   |
| 4       | 7673.034            | -35.45           | -25.04         | -60.49         | -13.00         | -47.49         | peak  | Р   |
| 5       | 12202.206           | -34.49           | -21.96         | -56.45         | -13.00         | -43.45         | peak  | Р   |
| 6 *     | 14741.211           | -30.71           | -20.81         | -51.52         | -13.00         | -38.52         | peak  | Р   |
| .TE / P | olarization: Vertic | al / Band:26(F   | Part22) / CH:H | -              |                |                |   |     |
| No.     | Frequency<br>(MHz)  | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector  | P/F |
| 1       | 2152.278            | -33.96           | -30.76         | -64.72         | -13.00         | -51.72         | peak  | Р   |
| 2       | 3383.361            | -35.74           | -29.16         | -64.90         | -13.00         | -51.90         | peak  | Р   |
| 3       | 5443.030            | -37.15           | -27.00         | -64.15         | -13.00         | -51.15         | peak  | Р   |
| 4       | 7070.382            | -34.46           | -24.91         | -59.37         | -13.00         | -46.37         | peak  | Р   |
| 5       | 10460.015           | -29.35           | -24.50         | -53.85         | -13.00         | -40.85         | peak  | Р   |
| 6 *     | 15094.767           | -29.35           | -20.61         | -49.96         | -13.00         | -36.96         | peak  | Р   |
| TE / P  | olarization: Horizo | ontal / Band:2   | 6 (part90)/ Cl | H:L            |                |                |   |     |
| No.     | Frequency<br>(MHz)  | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector  | P/F |
| 1       | 3038.451            | -37.70           | -29.47         | -67.17         | -13.00         | -54.17         | peak  | Р   |
| 2       | 4966.479            | -39.85           | -27.46         | -67.31         | -13.00         | -54.31         | peak  | Р   |
| 3       | 7154.668            | -36.03           | -24.88         | -60.91         | -13.00         | -47.91         | peak  | Р   |
| 4       | 10578.593           | -30.41           | -24.34         | -54.75         | -13.00         | -41.75         | peak  | Р   |
| 5       | 13877.076           | -29.29           | -21.06         | -50.35         | -13.00         | -37.35         | peak  | Р   |
| 6 *     | 16044.000           | -27.85           | -21.38         | -49.23         | -13.00         | -36.23         | peak  | Р   |
| TE / P  | olarization: Vertic | al / Band:26(F   | Part90) / CH:L |                |                |                | S. A. State of the second s |     |
| No.     | Frequency<br>(MHz)  | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector  | P/F |
| 1       | 3100.553            | -37.49           | -29.42         | -66.91         | -13.00         | -53.91         | peak  | Р   |
| 2       | 4273.409            | -38.63           | -28.88         | -67.51         | -13.00         | -54.51         | peak  | Р   |
| 3       | 6012.043            | -36.81           | -25.33         | -62.14         | -13.00         | -49.14         | peak  | Р   |
|         |                     |                  |                |                |                |                |   |     |

-13.00

-13.00

-13.00

-44.87

-40.23

-37.88

peak

peak

peak

-57.87

-53.23

-50.88

-25.10

-23.19

-21.51

Ρ

Ρ

Р



| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 3045.485           | -33.80           | -29.47         | -63.27         | -13.00         | -50.27         | peak     | Р   |
| 2   | 4304.400           | -34.75           | -28.87         | -63.62         | -13.00         | -50.62         | peak     | Р   |
| 3   | 5218.116           | -35.79           | -27.19         | -62.98         | -13.00         | -49.98         | peak     | Р   |
| 4   | 7070.382           | -34.46           | -24.91         | -59.37         | -13.00         | -46.37         | peak     | Р   |
| 5   | 9666.369           | -32.44           | -23.56         | -56.00         | -13.00         | -43.00         | peak     | Р   |
| 6 * | 14321.234          | -27.74           | -21.15         | -48.89         | -13.00         | -35.89         | peak     | Р   |

#### LTE / Polarization: Horizontal / Band:26 (part90)/ CH:M

#### LTE / Polarization: Vertical / Band:26(Part90) / CH:M

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 3064.913           | -34.42           | -29.45         | -63.87         | -13.00         | -50.87         | peak     | Р   |
| 2   | 4701.088           | -36.22           | -28.22         | -64.44         | -13.00         | -51.44         | peak     | Р   |
| 3   | 6661.688           | -31.22           | -25.23         | -56.45         | -13.00         | -43.45         | peak     | Р   |
| 4   | 8889.155           | -32.22           | -24.54         | -56.76         | -13.00         | -43.76         | peak     | Р   |
| 5   | 11985.486          | -28.95           | -22.22         | -51.17         | -13.00         | -38.17         | peak     | Р   |
| 6 * | 15305.648          | -27.92           | -21.06         | -48.98         | -13.00         | -35.98         | peak     | Р   |

#### LTE / Polarization: Horizontal / Band:26 (part90)/ CH:H

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 3045.485           | -33.30           | -29.47         | -62.77         | -13.00         | -49.77         | peak     | Р   |
| 2   | 5626.993           | -36.26           | -26.54         | -62.80         | -13.00         | -49.80         | peak     | Р   |
| 3   | 7239.959           | -31.64           | -24.86         | -56.50         | -13.00         | -43.50         | peak     | Р   |
| 4   | 10150.268          | -31.95           | -24.36         | -56.31         | -13.00         | -43.31         | peak     | Р   |
| 5   | 13853.031          | -30.39           | -21.05         | -51.44         | -13.00         | -38.44         | peak     | Р   |
| 6 * | 16183.725          | -29.48           | -20.70         | -50.18         | -13.00         | -37.18         | peak     | Р   |

LTE / Polarization: Vertical / Band:26(Part90) / CH:H

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 3080.900           | -33.12           | -29.43         | -62.55         | -13.00         | -49.55         | peak     | Р   |
| 2   | 4444.738           | -35.21           | -28.81         | -64.02         | -13.00         | -51.02         | peak     | Р   |
| 3   | 5468.260           | -32.75           | -26.98         | -59.73         | -13.00         | -46.73         | peak     | Р   |
| 4   | 7757.775           | -26.38           | -25.16         | -51.54         | -13.00         | -38.54         | peak     | Р   |
| 5   | 10345.757          | -27.33           | -24.45         | -51.78         | -13.00         | -38.78         | peak     | Р   |
| 6 * | 15204.236          | -26.91           | -20.85         | -47.76         | -13.00         | -34.76         | peak     | Р   |



#### LTE / Polarization: Horizontal / Band:41)/ CH:L

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 3241.682           | -36.82           | -29.29         | -66.11         | -25.00         | -41.11         | peak     | Р   |
| 2   | 4883.914           | -38.70           | -27.70         | -66.40         | -25.00         | -41.40         | peak     | Р   |
| 3   | 6684.834           | -35.19           | -25.21         | -60.40         | -25.00         | -35.40         | peak     | Р   |
| 4   | 8470.274           | -31.72           | -25.33         | -57.05         | -25.00         | -32.05         | peak     | Р   |
| 5   | 11975.098          | -28.59           | -22.23         | -50.82         | -25.00         | -25.82         | peak     | Р   |
| 6 * | 15709.023          | -28.33           | -21.54         | -49.87         | -25.00         | -24.87         | peak     | Р   |

#### LTE / Polarization: Vertical / Band:41 / CH:L

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 3461.506           | -33.51           | -29.09         | -62.60         | -25.00         | -37.60         | peak     | Р   |
| 2   | 4916.490           | -33.98           | -27.60         | -61.58         | -25.00         | -36.58         | peak     | Р   |
| 3   | 6289.330           | -34.14           | -25.36         | -59.50         | -25.00         | -34.50         | peak     | Р   |
| 4   | 8794.598           | -32.55           | -24.73         | -57.28         | -25.00         | -32.28         | peak     | Р   |
| 5   | 11926.739          | -29.25           | -22.32         | -51.57         | -25.00         | -26.57         | peak     | Р   |
| 6 * | 15832.096          | -28.30           | -21.56         | -49.86         | -25.00         | -24.86         | peak     | Р   |

#### LTE / Polarization: Horizontal / Band:41)/ CH:M

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 2565.777           | -33.80           | -30.25         | -64.05         | -25.00         | -39.05         | peak     | Р   |
| 2   | 4324.352           | -37.29           | -28.86         | -66.15         | -25.00         | -41.15         | peak     | Р   |
| 3   | 5609.131           | -37.61           | -26.60         | -64.21         | -25.00         | -39.21         | peak     | Р   |
| 4   | 9013.341           | -30.36           | -24.28         | -54.64         | -25.00         | -29.64         | peak     | Р   |
| 5   | 12746.559          | -29.22           | -21.48         | -50.70         | -25.00         | -25.70         | peak     | Р   |
| 6 * | 16639.072          | -29.74           | -18.94         | -48.68         | -25.00         | -23.68         | peak     | Р   |

LTE / Polarization: Vertical / Band:41 / CH:M

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 3180.428           | -36.33           | -29.34         | -65.67         | -25.00         | -40.67         | peak     | Р   |
| 2   | 4676.694           | -37.22           | -28.28         | -65.50         | -25.00         | -40.50         | peak     | Р   |
| 3   | 5372.693           | -36.23           | -27.06         | -63.29         | -25.00         | -38.29         | peak     | Р   |
| 4   | 6721.646           | -32.63           | -25.18         | -57.81         | -25.00         | -32.81         | peak     | Р   |
| 5   | 8925.198           | -32.45           | -24.46         | -56.91         | -25.00         | -31.91         | peak     | Р   |
| 6 * | 13985.797          | -26.63           | -21.08         | -47.71         | -25.00         | -22.71         | peak     | Р   |



#### LTE / Polarization: Horizontal / Band:41)/ CH:H

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 3536.341           | -30.89           | -29.05         | -59.94         | -25.00         | -34.94         | peak     | Р   |
| 2   | 4915.069           | -30.38           | -27.61         | -57.99         | -25.00         | -32.99         | peak     | Р   |
| 3   | 6477.511           | -30.90           | -25.38         | -56.28         | -25.00         | -31.28         | peak     | Р   |
| 4   | 8610.978           | -29.81           | -25.09         | -54.90         | -25.00         | -29.90         | peak     | Р   |
| 5   | 12333.401          | -23.57           | -21.81         | -45.38         | -25.00         | -20.38         | peak     | Р   |
| 6 * | 17629.279          | -28.68           | -16.46         | -45.14         | -25.00         | -20.14         | peak     | Р   |

#### LTE / Polarization: Vertical / Band:41 / CH:H

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 3283.172           | -34.25           | -29.25         | -63.50         | -25.00         | -38.50         | peak     | Р   |
| 2   | 4729.710           | -35.45           | -28.13         | -63.58         | -25.00         | -38.58         | peak     | Р   |
| 3   | 6104.851           | -35.26           | -25.34         | -60.60         | -25.00         | -35.60         | peak     | Р   |
| 4   | 8310.222           | -30.91           | -25.40         | -56.31         | -25.00         | -31.31         | peak     | Р   |
| 5   | 11101.737          | -29.62           | -23.36         | -52.98         | -25.00         | -27.98         | peak     | Р   |
| 6 * | 13825.031          | -30.60           | -21.05         | -51.65         | -25.00         | -26.65         | peak     | Р   |

#### LTE / Polarization: Horizontal / Band:66/ CH:L

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 3127.555           | -36.78           | -29.39         | -66.17         | -13.00         | -53.17         | peak     | Р   |
| 2   | 4532.961           | -36.78           | -28.69         | -65.47         | -13.00         | -52.47         | peak     | Р   |
| 3   | 5967.033           | -33.18           | -25.44         | -58.62         | -13.00         | -45.62         | peak     | Р   |
| 4   | 8370.489           | -27.65           | -25.37         | -53.02         | -13.00         | -40.02         | peak     | Р   |
| 5   | 10460.015          | -27.85           | -24.50         | -52.35         | -13.00         | -39.35         | peak     | Р   |
| 6 * | 14341.946          | -26.62           | -21.17         | -47.79         | -13.00         | -34.79         | peak     | Р   |

LTE / Polarization: Vertical / Band:66 / CH:L

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 3127.555           | -37.78           | -29.39         | -67.17         | -13.00         | -54.17         | peak     | Р   |
| 2   | 4299.426           | -36.82           | -28.87         | -65.69         | -13.00         | -52.69         | peak     | Р   |
| 3   | 6032.932           | -38.63           | -25.33         | -63.96         | -13.00         | -50.96         | peak     | Р   |
| 4   | 8586.125           | -34.27           | -25.14         | -59.41         | -13.00         | -46.41         | peak     | Р   |
| 5   | 11391.027          | -30.55           | -23.14         | -53.69         | -13.00         | -40.69         | peak     | Р   |
| 6 * | 14968.770          | -30.01           | -20.45         | -50.46         | -13.00         | -37.46         | peak     | Р   |



#### LTE / Polarization: Horizontal / Band:66/ CH:M

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 2806.288           | -41.00           | -29.84         | -70.84         | -13.00         | -57.84         | peak     | Р   |
| 2   | 4687.520           | -40.38           | -28.26         | -68.64         | -13.00         | -55.64         | peak     | Р   |
| 3   | 6719.703           | -38.53           | -25.18         | -63.71         | -13.00         | -50.71         | peak     | Р   |
| 4   | 8843.028           | -34.72           | -24.63         | -59.35         | -13.00         | -46.35         | peak     | Р   |
| 5   | 10788.567          | -30.14           | -23.90         | -54.04         | -13.00         | -41.04         | peak     | Р   |
| 6 * | 14087.223          | -31.07           | -21.11         | -52.18         | -13.00         | -39.18         | peak     | Р   |

#### LTE / Polarization: Vertical / Band:66 / CH:M

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 2937.417           | -34.34           | -29.62         | -63.96         | -13.00         | -50.96         | peak     | Р   |
| 2   | 3883.514           | -36.05           | -29.01         | -65.06         | -13.00         | -52.06         | peak     | Р   |
| 3   | 5266.604           | -34.66           | -27.15         | -61.81         | -13.00         | -48.81         | peak     | Р   |
| 4   | 7491.148           | -32.57           | -24.78         | -57.35         | -13.00         | -44.35         | peak     | Р   |
| 5   | 10194.370          | -30.10           | -24.37         | -54.47         | -13.00         | -41.47         | peak     | Р   |
| 6 * | 14341.946          | -26.12           | -21.17         | -47.29         | -13.00         | -34.29         | peak     | Р   |

#### LTE / Polarization: Horizontal / Band:66/ CH:H

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 3237.000           | -34.71           | -29.29         | -64.00         | -13.00         | -51.00         | peak     | Р   |
| 2   | 4304.400           | -36.25           | -28.87         | -65.12         | -13.00         | -52.12         | peak     | Р   |
| 3   | 5266.604           | -35.66           | -27.15         | -62.81         | -13.00         | -49.81         | peak     | Р   |
| 4   | 7015.420           | -33.53           | -24.93         | -58.46         | -13.00         | -45.46         | peak     | Р   |
| 5   | 9453.612           | -32.16           | -23.30         | -55.46         | -13.00         | -42.46         | peak     | Р   |
| 6 * | 13853.031          | -28.39           | -21.05         | -49.44         | -13.00         | -36.44         | peak     | Р   |

#### LTE / Polarization: Vertical / Band:66 / CH:H

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 3038.451           | -33.20           | -29.47         | -62.67         | -13.00         | -49.67         | peak     | Р   |
| 2   | 5361.833           | -34.66           | -27.07         | -61.73         | -13.00         | -48.73         | peak     | Р   |
| 3   | 7013.392           | -30.54           | -24.93         | -55.47         | -13.00         | -42.47         | peak     | Р   |
| 4   | 9958.472           | -31.20           | -24.20         | -55.40         | -13.00         | -42.40         | peak     | Р   |
| 5   | 13809.057          | -29.10           | -21.04         | -50.14         | -13.00         | -37.14         | peak     | Р   |
| 6 * | 16687.234          | -29.46           | -18.85         | -48.31         | -13.00         | -35.31         | peak     | Р   |



#### LTE / Polarization: Horizontal / Band:71/ CH:L

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 2942.515           | -37.51           | -29.61         | -67.12         | -13.00         | -54.12         | peak     | Р   |
| 2   | 4193.872           | -40.10           | -28.92         | -69.02         | -13.00         | -56.02         | peak     | Р   |
| 3   | 5298.668           | -40.27           | -27.12         | -67.39         | -13.00         | -54.39         | peak     | Р   |
| 4   | 7971.439           | -33.97           | -25.49         | -59.46         | -13.00         | -46.46         | peak     | Р   |
| 5   | 10229.790          | -30.68           | -24.39         | -55.07         | -13.00         | -42.07         | peak     | Р   |
| 6 * | 13685.878          | -31.95           | -21.01         | -52.96         | -13.00         | -39.96         | peak     | Р   |

#### LTE / Polarization: Vertical / Band:71 / CH:L

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 2277.727           | -34.83           | -30.62         | -65.45         | -13.00         | -52.45         | peak     | Р   |
| 2   | 2881.912           | -35.13           | -29.72         | -64.85         | -13.00         | -51.85         | peak     | Р   |
| 3   | 3988.168           | -37.47           | -29.00         | -66.47         | -13.00         | -53.47         | peak     | Р   |
| 4   | 4701.088           | -37.72           | -28.22         | -65.94         | -13.00         | -52.94         | peak     | Р   |
| 5   | 7043.865           | -34.24           | -24.92         | -59.16         | -13.00         | -46.16         | peak     | Р   |
| 6 * | 10942.450          | -32.28           | -23.56         | -55.84         | -13.00         | -42.84         | peak     | Р   |

#### LTE / Polarization: Horizontal / Band:71/ CH:M

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 2942.515           | -35.51           | -29.61         | -65.12         | -13.00         | -52.12         | peak     | Р   |
| 2   | 3892.505           | -37.79           | -29.02         | -66.81         | -13.00         | -53.81         | peak     | Р   |
| 3   | 4765.387           | -39.07           | -28.04         | -67.11         | -13.00         | -54.11         | peak     | Р   |
| 4   | 6849.122           | -38.80           | -25.07         | -63.87         | -13.00         | -50.87         | peak     | Р   |
| 5   | 11851.139          | -33.93           | -22.45         | -56.38         | -13.00         | -43.38         | peak     | Р   |
| 6 * | 15622.990          | -31.24           | -21.51         | -52.75         | -13.00         | -39.75         | peak     | Р   |

#### LTE / Polarization: Vertical / Band:71 / CH:M

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 2973.293           | -38.54           | -29.56         | -68.10         | -13.00         | -55.10         | peak     | Р   |
| 2   | 4264.771           | -39.67           | -28.88         | -68.55         | -13.00         | -55.55         | peak     | Р   |
| 3   | 5949.810           | -37.39           | -25.49         | -62.88         | -13.00         | -49.88         | peak     | Р   |
| 4   | 8421.450           | -32.60           | -25.35         | -57.95         | -13.00         | -44.95         | peak     | Р   |
| 5   | 12202.206          | -32.49           | -21.96         | -54.45         | -13.00         | -41.45         | peak     | Р   |
| 6 * | 16485.883          | -32.16           | -19.25         | -51.41         | -13.00         | -38.41         | peak     | Р   |



#### LTE / Polarization: Horizontal / Band:71/ CH:H

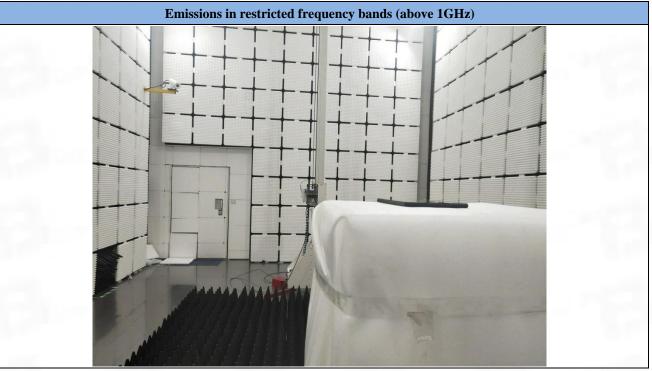
| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 2821.742           | -35.71           | -29.82         | -65.53         | -13.00         | -52.53         | peak     | Р   |
| 2   | 3196.094           | -36.23           | -29.33         | -65.56         | -13.00         | -52.56         | peak     | Р   |
| 3   | 5664.525           | -38.25           | -26.41         | -64.66         | -13.00         | -51.66         | peak     | Р   |
| 4   | 8122.617           | -30.97           | -25.48         | -56.45         | -13.00         | -43.45         | peak     | Р   |
| 5   | 11002.708          | -28.36           | -23.44         | -51.80         | -13.00         | -38.80         | peak     | Р   |
| 6 * | 13630.610          | -28.74           | -21.00         | -49.74         | -13.00         | -36.74         | peak     | Р   |

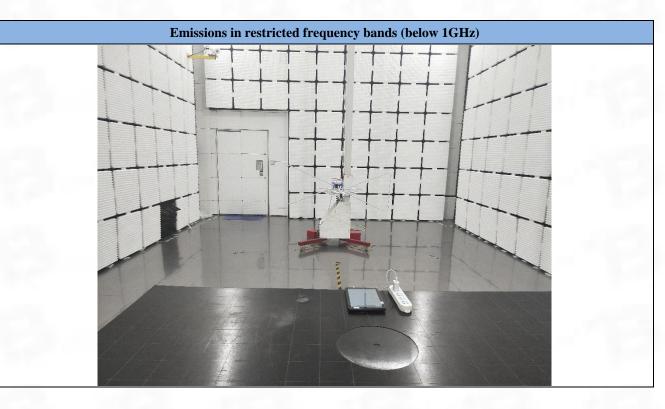
#### LTE / Polarization: Vertical / Band:71 / CH:H

| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Factor<br>(dB) | Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|------------------|----------------|----------------|----------------|----------------|----------|-----|
| 1   | 3276.535           | -33.19           | -29.25         | -62.44         | -13.00         | -49.44         | peak     | Р   |
| 2   | 4400.000           | -33.79           | -28.83         | -62.62         | -13.00         | -49.62         | peak     | Р   |
| 3   | 6186.561           | -31.92           | -25.34         | -57.26         | -13.00         | -44.26         | peak     | Р   |
| 4   | 9031.596           | -29.85           | -24.24         | -54.09         | -13.00         | -41.09         | peak     | Р   |
| 5   | 11985.486          | -28.45           | -22.22         | -50.67         | -13.00         | -37.67         | peak     | Р   |
| 6 * | 15722.650          | -26.34           | -21.53         | -47.87         | -13.00         | -34.87         | peak     | Р   |



## ANNEX B TEST SETUP PHOTOS







Test Report Number: BTF230506R00206

## ANNEX C EUT PHOTOS

Please refer to the report No.BTF230506R00201



Test Report Number: BTF230506R00206



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## --END OF REPORT--