

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                  |                                                                                      |                                           |                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------|------------------------------------|
| <b>Prüfbericht-Nr.:</b><br><i>Test report no.:</i>                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>IN22Y7T9 001</b>                                                                                                                                                                                              | <b>Auftrags-Nr.:</b><br><i>Order no.:</i>                                            | 146733111 010                             | Seite 1 von 94<br>Page 1 of 94     |
| <b>Kunden-Referenz-Nr.:</b><br><i>Client reference no.:</i>                                                                                                                                                                                                                                                                                                                                                                                                         | 2455720                                                                                                                                                                                                          | <b>Auftragsdatum:</b><br><i>Order date:</i>                                          | 2022-10-18                                |                                    |
| <b>Auftraggeber:</b><br><i>Client:</i>                                                                                                                                                                                                                                                                                                                                                                                                                              | DS Services of America, Inc. dba Primo Water North America<br>1150 Assembly Drive, Ste 800<br>Tampa, Florida 33607                                                                                               |                                                                                      |                                           |                                    |
| <b>Prüfgegenstand:</b><br><i>Test item:</i>                                                                                                                                                                                                                                                                                                                                                                                                                         | Pureflo                                                                                                                                                                                                          | <b>Product Type</b>                                                                  | Pureflo                                   |                                    |
| <b>Bezeichnung:</b><br><i>Identification .:</i>                                                                                                                                                                                                                                                                                                                                                                                                                     | STFP2KHK2RO<br>STFP2KHK1CA                                                                                                                                                                                       |                                                                                      |                                           |                                    |
| <b>Auftrags-Inhalt:</b><br><i>Order content:</i>                                                                                                                                                                                                                                                                                                                                                                                                                    | Testing and issue of Test Report and Grant Certificate                                                                                                                                                           |                                                                                      |                                           |                                    |
| <b>Prüfgrundlage:</b><br><i>Test specification:</i>                                                                                                                                                                                                                                                                                                                                                                                                                 | FCC Part 2, Part 22H, Part 24E & Part 27                                                                                                                                                                         |                                                                                      |                                           |                                    |
| <b>Wareneingangsdatum:</b><br><i>Date of sample receipt:</i>                                                                                                                                                                                                                                                                                                                                                                                                        | 2022-11-04                                                                                                                                                                                                       |  |                                           |                                    |
| <b>Prüfmuster-Nr :</b><br><i>Test sample no:</i>                                                                                                                                                                                                                                                                                                                                                                                                                    | A003366433-001<br>A003415430-001                                                                                                                                                                                 |                                                                                      |                                           |                                    |
| <b>Prüfzeitraum:</b><br><i>Testing period:</i>                                                                                                                                                                                                                                                                                                                                                                                                                      | 2022-11-04 - 2022-11-28                                                                                                                                                                                          |                                                                                      |                                           |                                    |
| <b>Ort der Prüfung:</b><br><i>Place of testing:</i>                                                                                                                                                                                                                                                                                                                                                                                                                 | Wireless laboratory,<br>Bangalore                                                                                                                                                                                |                                                                                      |                                           |                                    |
| <b>Prüflaboratorium:</b><br><i>Testing laboratory:</i>                                                                                                                                                                                                                                                                                                                                                                                                              | TÜV Rheinland (India)<br>Pvt.Ltd., 27/B, 2nd Cross,<br>Electronic City Phase1<br>Bangalore -560 100, India<br><br>FCC Test site registration<br>number: 496599<br>ISED Test site registration<br>number: 3466E-1 |                                                                                      |                                           |                                    |
| <b>Prüfergebnis*:</b><br><i>Test result*:</i>                                                                                                                                                                                                                                                                                                                                                                                                                       | Pass                                                                                                                                                                                                             |                                                                                      |                                           |                                    |
| <b>geprüft von:</b><br><i>tested by:</i>                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>genehmigt von:</b><br><i>authorized by:</i>                                                                                                                                                                   |                                                                                      |                                           |                                    |
| <b>Datum:</b><br><i>Date:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2022-12-15                                                                                                                                                                                                       | <b>Ausstellatum:</b><br><i>Issue date:</i>                                           | 2023-04-18                                |                                    |
| <b>Stellung / Position:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Likhithesh M D</b><br>Senior Enigneer                                                                                                                                                                         | <b>Stellung / Position:</b>                                                          | <b>Madhu K N</b><br>Senior Enigneer       |                                    |
| <b>Sonstiges / Other:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>FCC ID: 2A9TV-STFP2KHK1RO</b>                                                                                                                                                                                 |                                                                                      |                                           |                                    |
| <b>Zustand des Prüfgegenstandes bei Anlieferung:</b><br><i>Condition of the test item at delivery:</i>                                                                                                                                                                                                                                                                                                                                                              | <b>Prüfmuster vollständig und unbeschädigt</b><br><i>Test item complete and undamaged</i>                                                                                                                        |                                                                                      |                                           |                                    |
| <b>* Legende:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1 = sehr gut<br>P(ass) = entspricht o.g. Prüfgrundlage(n)                                                                                                                                                        | 2 = gut<br>F(ail) = entspricht nicht o.g. Prüfgrundlage(n)                           | 3 = befriedigend<br>N/A = nicht anwendbar | 4 = ausreichend<br>N/T = nicht     |
| <b>* Legend:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1 = very good<br>P(ass) = passed a.m. test specification(s)                                                                                                                                                      | 2 = good<br>F(ail) = failed a.m. test specification(s)                               | 3 = satisfactory<br>N/A = not applicable  | 4 = sufficient<br>N/T = not tested |
| <p><b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b><br/> <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i></p> |                                                                                                                                                                                                                  |                                                                                      |                                           |                                    |

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|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | <p>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben.</p> <p>Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i></p>                                                                         |
| 2 | <p>Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben.</p> <p><i>As contractually agreed, this document has been signed digitally only. TUV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TUV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged.</i></p> |
| 3 | <p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben.</p> <p>Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i></p> <p><i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 4 | <p>Die Entscheidungsregel für Konformitätserklärungen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird.</p> <p><i>The decision rule for statements of conformity in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report.</i></p>                                                                                                                                                                                                             |

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## TEST SUMMARY

| Test Item                                                                   | FCC Clause                                                                               | Results |
|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------|
| Conducted Output Average Power And Peak to Average Power ratio              | §2.1046<br>§22.913(a)(5)<br>§24.232(c)<br>§27.50(d)(4)<br>§27.50(b)(10)<br>§27.50(c)(10) | Pass    |
| Equivalent Isotropic Radiated Power (EIRP) / Effective Radiated Power (ERP) | §22.913(a)(5)<br>§24.232 (c)<br>§27.50(d)(4)<br>§27.50(b)(10)<br>§27.50(c)(10)           | Pass    |
| Field strength of spurious radiation                                        | §24.238(a)<br>§27.53 (h)(1)<br>§22.917 (a)<br>§27.53 (g)(f)                              | Pass    |
| Frequency Stability                                                         | §2.1055<br>§22.355<br>§24.235<br>§27.54                                                  | N/T     |
| Emission Bandwidth and Occupied Bandwidth                                   | §2.1049                                                                                  | N/T     |
| Band Edge                                                                   | §2.1051<br>§22.917(a)<br>§24.238(a)<br>§27.53(h)<br>§27.53(g)<br>§27.53(f) §27.53(c)     | N/T     |
| Conducted Emissions on AC Power Lines                                       | §15.207                                                                                  | Pass    |

**Note:**

N/T: Not Tested

**Pure flo** product uses certified RF modules with FCC IDs: **XMR202005BG95M5** hence the above mentioned test cases are excluded and which can be found in the module test report: R2005A0283-R1V1/R2V1/R3V1/R4V1 issued on July 23<sup>rd</sup> & 24<sup>th</sup> 2020 of respective FCC ID.

Product Category: Electronics Testing  
Test Discipline: EMC Test Facility

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## REVISION HISTORY OF THIS REPORT

| Report Number | Version | Description               | Issue date |
|---------------|---------|---------------------------|------------|
| IN22Y7T9 001  | 01      | Initial issue of report   | 24-03-2023 |
| IN22Y7T9 001  | 02      | Updated Reviewer Comments | 31-03-2023 |
| IN22Y7T9 001  | 03      | Updated Reviewer Comments | 14-04-2023 |
| IN22Y7T9 001  | 04      | Updated Reviewer Comments | 18-04-2023 |

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# 1 GENERAL REMARKS

## 1.1 Attachments

All attachments are part of this test report and are issued in separate document

**1:** TEST SETUP PHOTOS

**2:** EUT EXTERNAL PHOTOS

**3:** EUT INTERNAL PHOTOS

**4:** FCC LABEL AND LABEL LOCATION

**5:** BLOCK DIAGRAM

**6:** SPECIFICATION OF EUT

**7:** SCHEMATIC DIAGRAM

**8:** BILL OF MATERIAL

**9:** USER MANUAL

**10:** MAXIMUM PERMISSIBLE EXPOSURE INFORMATION

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## 2 TEST SITES

### 2.1 Testing Facilities

1. TÜV Rheinland (India) Pvt.Ltd.,  
27/B, 2nd Cross,  
ElectronicCityPhase1  
Bangalore – 560 100,  
India

2. TUV Rheinland (India) Pvt.Ltd.,  
108 , Beside ISBR Business School,  
Electronic city Phase I  
Bangalore - 560 100.  
India

Radiated Measurement site type :  
Fully anechoic chamber (used for above 1 GHz  
measurements)

Radiated Measurement site type :  
Semi anechoic chamber (used for below 1 GHz  
measurements)

### 2.2 List of Test and Measurement Instruments

**Table 1: List of test and measurement instruments**

| Equipment                            | Manufacturer    | Model Name          | Serial Number | Firmware Versions | Calibration Due Date | Periodicity | Test Facility                |
|--------------------------------------|-----------------|---------------------|---------------|-------------------|----------------------|-------------|------------------------------|
| Radio Communication tester           | Rohde & Schwarz | CMW 500             | 1201.000 2K50 | -                 | 20.08.2023           | Yearly      | Radiated Spurious Emission   |
| EMI Receiver                         | Rohde & Schwarz | ESW 44              | 101732        | 1.72SP1           | 04.08.2023           | Yearly      |                              |
| EMI Receiver                         | Rohde & Schwarz | ESW 44              | 101733        | 1.72SP1           | 12.02.2023           | Yearly      |                              |
| Active loop antenna                  | Frankonia       | LAX-18              | LAX-10-800    | -                 | 31.01.2023           | Yearly      |                              |
| Baloon and Bicoloral Antenna         | Schwarzbeck     | BBA 9106+V HBB 9124 | 9124-1117     | -                 | 03.02.2023           | Yearly      |                              |
| Log - Periodical Antenna             | Schwarzbeck     | VUSLP-9111B         | 9111B-111     | -                 | 26.01.2023           | Yearly      |                              |
| Horn Antenna                         | Schwarzbeck     | BBHA 9120 D         | 9120D-1944    | -                 | 11.10.2023           | Yearly      |                              |
| Semi Anechoic Chamber                | Frankonia       | -                   | -             | -                 | -                    | -           |                              |
| Fully Anechoic Chamber               | Albatross       | -                   | -             | -                 | -                    | -           |                              |
| EMI Receiver                         | Rohde & Schwarz | ESR7                | 101133        | 3.48 SP3          | 22.07.2023           | Yearly      | Conducted AC Power line Test |
| Line Impedance Stabilization Network | Rohde & Schwarz | ENV 216             | 101434        | -                 | 11.04.2023           | Yearly      |                              |
| Pulse Limiter                        | Rohde & Schwarz | ESH3-Z2             | 100811        | -                 | 12.07.2023           | Yearly      |                              |

**Table 2: Instrument application Software versions**

| SL. No. | Test Type                                           | Application software | Version   |
|---------|-----------------------------------------------------|----------------------|-----------|
| 1       | Radiated spurious emission measurement in 10mtr-SAC | BAT EMC              | 3.20.0.17 |
| 2       | Radiated spurious emission measurement in FAC       | EMC 32               | 10.60.20  |

### 3 GENERAL PRODUCT INFORMATION

#### 3.1 Product Function and Intended Use

The primo water purifier is a hot and cold-water purifier with several stages of purification.

#### 3.2 Ratings and System Details of Equipment under Test

Table 3: Ratings and System Details as declared by Client\*

| Cellular Operator                                 |           | PureFlo               |                      |                                      |             |  |
|---------------------------------------------------|-----------|-----------------------|----------------------|--------------------------------------|-------------|--|
| Radio Protocol                                    |           | LTE and GSM           |                      |                                      |             |  |
| LTE E-UTRA operating bands                        | Band      | Bandwidth (MHz)       | UL Frequency (MHz)   | DL Frequency (MHz)                   | Modulation  |  |
|                                                   | 2         | 1.4, 3, 5, 10, 15, 20 | 1850.7 - 1909.3      | 1930.7- 1989.3                       | QPSK, 16QAM |  |
|                                                   | 4         | 1.4, 3, 5, 10, 15, 20 | 1710.7 - 1754.3      | 2110.7- 2154.3                       | QPSK, 16QAM |  |
|                                                   | 5         | 1.4, 3, 5, 10         | 824.7 - 848.3        | 869.7 - 893.3                        | QPSK, 16QAM |  |
|                                                   | 12        | 1.4, 3, 5, 10         | 699 - 716            | 729 - 746                            | QPSK, 16QAM |  |
|                                                   | 13        | 5, 10                 | 746 -755.90          | 777 – 786.90                         | QPSK, 16QAM |  |
|                                                   | 25        | 1.4, 3, 5, 10, 15, 20 | 1850 - 1914.90       | 1930 – 1994.50                       | QPSK, 16QAM |  |
|                                                   | 26        | 1.4, 3, 5, 10         | 814-849              | 859-894                              | QPSK, 16QAM |  |
|                                                   | 66        | 1.4, 3, 5, 10, 15, 20 | 1710 – 1779.90       | 2110 – 2199.90                       | QPSK, 16QAM |  |
|                                                   | 85        | 5, 10                 | 698 – 715.90         | 728 – 745.90                         | QPSK, 16QAM |  |
| GSM                                               | 850       | -                     | 824.20- 848.80       | 869.20- 893.80                       | GPRS, EGPRS |  |
|                                                   | 900       | -                     | 890.20 – 914.80      | 935.20 – 959.80                      | GPRS, EGPRS |  |
|                                                   | 1800      |                       | 1710.20 – 1784.80    | 1805.20 – 1879.80                    | GPRS, EGPRS |  |
|                                                   | 1900      |                       | 1850.20 – 1909.80    | 1930.20 – 1989.80                    | GPRS, EGPRS |  |
| Transmitted Power for LTE and Maximum Power (dBm) |           | Band                  | Power Class          | Max. Conducted Average. Output Power |             |  |
|                                                   |           | 4                     | Power Class 3: 23dBm | 22.98dBm                             |             |  |
| GSM                                               |           | 850                   | Power Class 5: 33dBm | 32.96dBm                             |             |  |
| Antenna Type                                      |           | Chip Antenna          |                      |                                      |             |  |
| Number of Antenna                                 |           | 1                     |                      |                                      |             |  |
| Antenna Gain                                      |           | Refer Clause 3.3      |                      |                                      |             |  |
| Supply Voltage to Product                         |           | 110V 60Hz             |                      |                                      |             |  |
| Environmental conditions                          | Storage   | -20° C to 60° C       |                      |                                      |             |  |
|                                                   | Operating | -40° C to +85° C      |                      |                                      |             |  |
| EUT Dimension (L X W X H)                         |           | 32cmX30cmX114cm       |                      |                                      |             |  |

**\*Disclaimer:**

The information/data is supplied by the client and the same is considered to arrive at the final value. Any changes made apart from the specified specification, can directly impact on the tests results. Refer the products user manual for more details.

### 3.3 Antenna Gain Details

| Antenna Type | Antenna Gain (dBi) |
|--------------|--------------------|
| Chip Antenna | 2.53               |

### 3.4 Measurement Uncertainty

Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$

**Table 4: Measurement Uncertainty**

| Parameter                         | Uncertainty                      |
|-----------------------------------|----------------------------------|
| Occupied Channel Bandwidth        | $\pm 5 \%$                       |
| RF output power, conducted        | $\pm 1.5 \text{ dB}$             |
| Power Spectral Density, conducted | $\pm 3 \text{ dB}$               |
| Unwanted Emissions, conducted     | $\pm 3 \text{ dB}$               |
| All emissions, radiated           | $\pm 6 \text{ dB}$               |
| Temperature                       | $\pm 3 \text{ }^{\circ}\text{C}$ |
| Supply Voltages                   | $\pm 3 \%$                       |
| Time                              | $\pm 5 \%$                       |

## 4 TEST SET-UP AND OPERATION MODE

### 4.1 Principle of Configuration Selection

Transmission was enabled with highest possible duty cycle on low, mid and high channels

### 4.2 UUT Operation and Software

Hardware Version Identification number (HVIN): 1.02  
Software version : 1.08

### 4.3 Special Accessories and Auxiliary Equipment

-None

### 4.4 Simultaneous Transmission

-This product does not support for Simultaneous Operation

### 4.5 Countermeasures to achieve EMC Compliance

- None

### 4.6 List of frequencies

Table 5: List of Center frequencies

| Protocol | Band | UL Frequency (MHz) | DL Frequency (MHz) |
|----------|------|--------------------|--------------------|
| LTE      | 2    | 1850.7 -1909.3     | 1930.7-1989.3      |
|          | 4    | 1710.7 - 1754.3    | 2110.7-2154.3      |
|          | 5    | 824.7 - 848.3      | 869.7 - 893.3      |
|          | 12   | 699 - 716          | 729 - 746          |
|          | 13   | 746 -755.90        | 777 – 786.90       |
|          | 25   | 1850 - 1914.90     | 1930 – 1994.50     |
|          | 26   | 814-849            | 859-894            |
|          | 66   | 1710 – 1779.90     | 2110 – 2199.90     |
|          | 85   | 698 – 715.90       | 728 – 745.90       |
| GSM      | 850  | 824.20-848.80      | 869.20-893.80      |
|          | 900  | 890.20 – 914.80    | 935.20 – 959.80    |
|          | 1800 | 1710.20 – 1784.80  | 1805.20 – 1879.80  |
|          | 1900 | 1850.20 – 1909.80  | 1930.20 – 1989.80  |

**Note:**

TUV Sample Identification number    A003366433-001– Radiated & Conducted test Sample  
A003415430-001 – Radiated test Sample

## 5 OPERATIONAL DESCRIPTION OF THE PRODUCT

The primo water purifier is a hot and cold-water purifier with several stages of purification. The product contains a few different PCBs that control different aspects of the product. These are:

1. Power Supply – This is a packaged power supply product, which converts 100V to 230V AC at 50 and 60 hz to 12V DC.
2. Power Supply PCB – This PCB takes in 12V power and provides it to the other PCBs.
3. Product Control PCB – This is the PCB which controls the different solenoid valves on the product as well as the 12V dc motor for the RO pump.
4. Display / Dispensing PCB – This PCB has display LEDs and the dispensing control of the water purifier.
5. IOT / RF PCB – This PCB collects information from the other PCBs and sends data to AWS servers about once a day over CATM or GSM networks.

### RF circuit function:

The IOT PCB connects to the other PCBs and gathers data about the water purifier performance. This data is then sent to an AWS server once a day. The communication with the AWS server is done using a Quectel module BG95-M5. The connection is made over CATM or GSM and the data is sent using AWS MQTT Core Services. All communication is encrypted using AWS SSL Certificates, which are installed in the BG95-M5 module () at the time of manufacturing the PCB.

### RF signal flow:

The BG95-M5 module has an RF antenna connected to a U.FL connector. The Antenna is a 4G Multi-band antenna, which covers all the transmission and reception bands available on the BG95-M5. The main processor on the PCB is the RP2040. This processor communicates to the BG95-M5 module over UART. The RF communication on the PCB is only done on the BG95-M5. There is a short track from the BG95-M5 module to the 4G antenna, keeping any RF signals away from the rest of the PCB. Any RF spurious emissions are further prevented by the 2 solid ground planes on the 4 layer PCB.

### Description of Antenna system (Baluns, Multiplexers):

The antenna on the product is an LTE 4G full band antenna. This antenna is short wire, about 50mm to the main PCB. The entire PCB and the antenna is enclosed in a plastic container keeping it away from the remaining product and connections. This prevents any connector from becoming an antenna on the PCB.

The antenna is a Quectel YF0006DA 4G Full Band Antenna

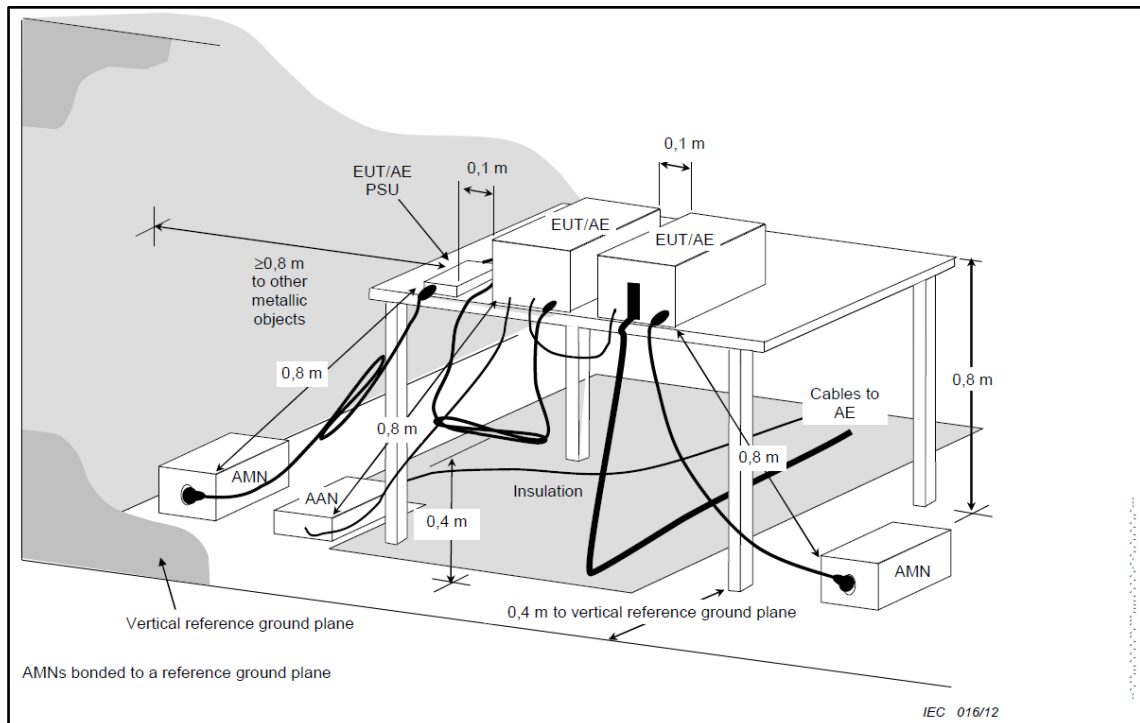
## 6 TEST METHODOLOGY

## 6.1 Conducted Spurious Emission Test on AC Power Line

Measured levels of ac power-line conducted emission across the 50Ω LISN port (to which the EUT is connected). All emission voltage and current measurements shall be made on each current-carrying conductor at the plug end of the EUT power cord by the use of mating plugs and receptacles on the LISN, if used. Equipment shall be tested with power cords that are normally supplied or recommended by the manufacturer and that have electrical and shielding characteristics that are the same as those cords normally supplied or recommended by the manufacturer.

The device is placed on the test table, raised 80cm above the reference ground plane. The vertical conducting plane is located 40cm to the rear of the device. AC Conducted emission measurement is made over frequency range from 150kHz to 30MHz, this measurement was performed with EUT powered by an AC adaptor with 110V AC 60Hz supply.

### 6.1.1 Test Setup Configuration



## 6.2 Radiated Emission Test

### Frequency Range 9 kHz - 30 MHz

#### Test performed as per ANSI C63.4-2014 section 8.3

The loop Antenna was placed at 1m above the ground plane & EUT is 3 meters far from the measuring antenna. With 3m measurement distance, correction data were applied to the measured results. The test arrangement, measuring antenna guidelines and operational configurations in 8.2.1 and 8.2.2, shall be followed. The measurement antenna shall be positioned with its plane perpendicular to the ground at the Specified distance, when perpendicular to the ground plane, the lowest height of the magnetic antenna shall be 1 m above the ground and shall be positioned at the specified distance from the EUT. EUT & its associates are placed on non-conducting table of 0.8m height which is placed on the turn table, For each measurement antenna alignment, the EUT shall be rotated through 0° to 360° on a turntable. The report shall list worst case emission results, for each of the parallel & perpendicular orientations.

#### 6.2.1 Test Setup Configuration

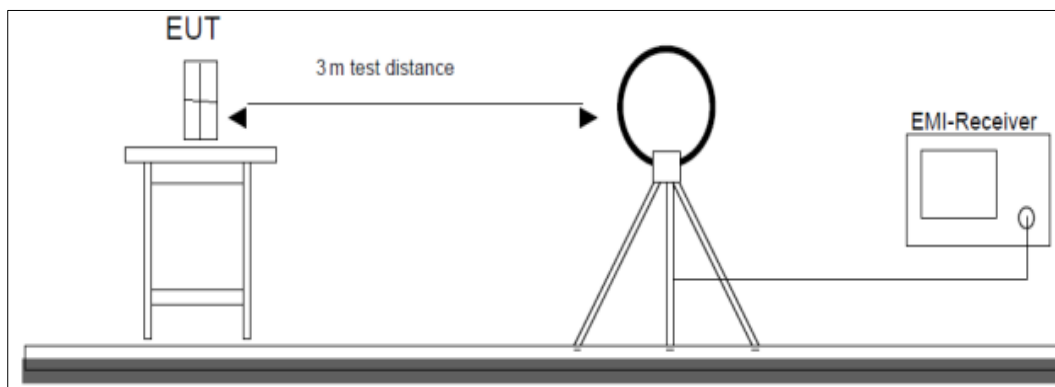


Figure 1: Frequency Range 9 kHz- 30 MHz

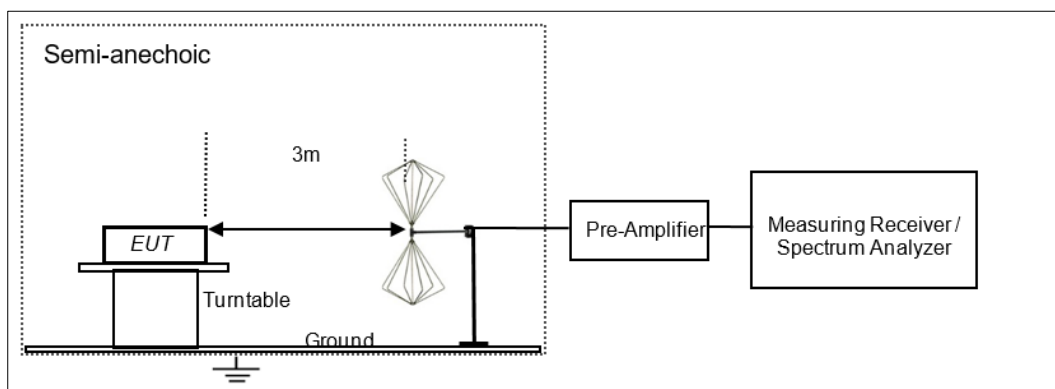
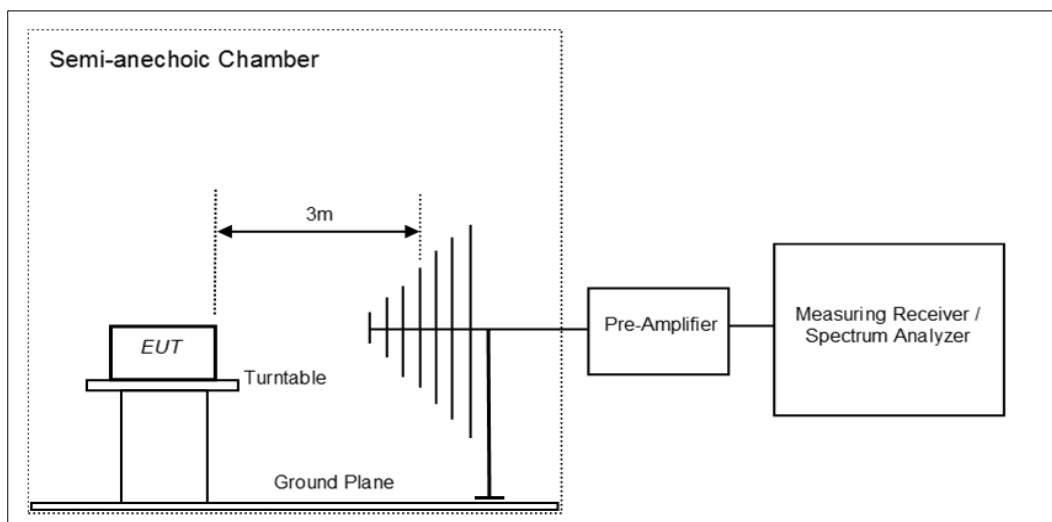
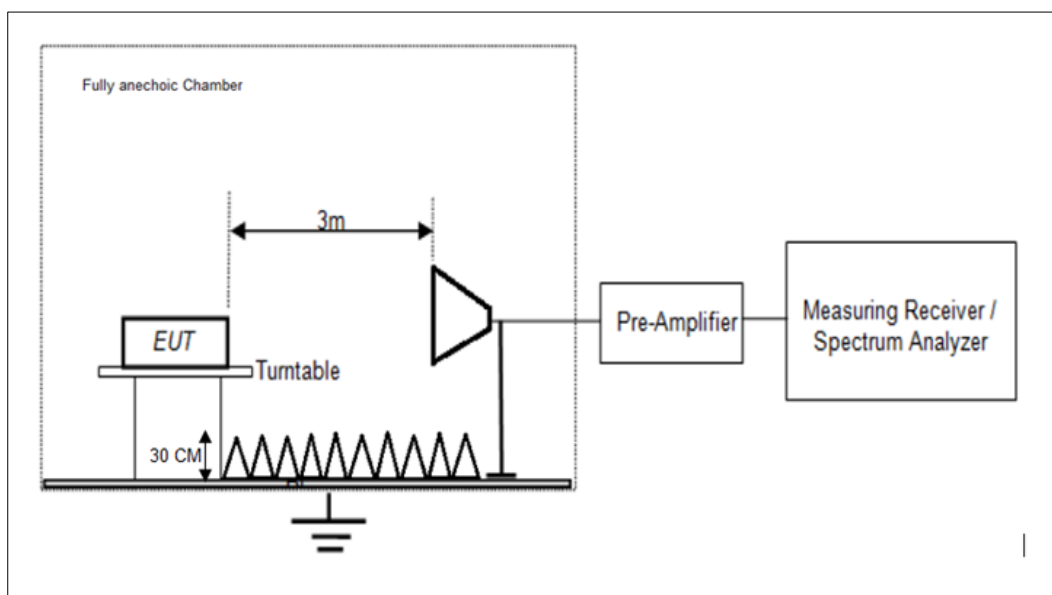


Figure 2: Frequency Range 30 MHz – 200 MHz



**Figure 3: Frequency Range 200 MHz - 1GHz**



**Figure 4: Frequency Range above 1 GHz**

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## Frequency Range 30MHz to 10<sup>th</sup> harmonics of the highest fundamental frequency

### Test performed as per ANSI C63.26-2015

Radiated spurious emission test are performed as below.

All the radiated emission measurements are performed in accordance with common requirement specified in 5.5.2 and Pre-test site path loss correction factors are used to adjust the EUT emission data in place of two step substitution method (as defined in Annex B of ANSI C63.26-2015).

The equipment under test is placed on non-conductive table at 3m away from the receive antenna in accordance with above mentioned standard. Turn table is rotated through 360 degree, and receiver antenna height is varied in order to determine the level of maximum emission. The maximum emission level and position of the maximized emission is recorded with use of spectrum analyzer.

### Using pre-test site path loss to determine EUT emission power:

- 1) EUT emission powers are calculated using the following equation:

$$\text{Emission Power} = \text{EUT}_{\text{Prec}} [\text{dBm EIRP/ ERP}] + P_L [\text{dB}]$$

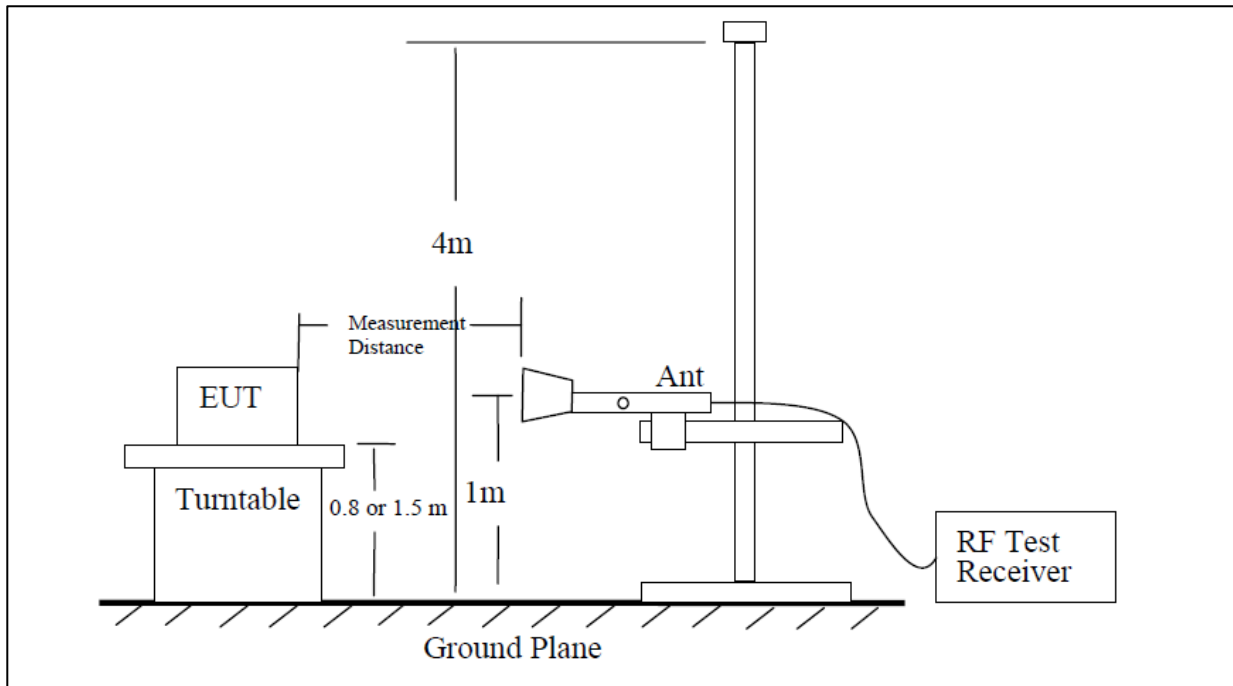
Where

$\text{EUT}_{\text{Prec}}$  = power of the emission measured at the test receiver during EUT measurements.

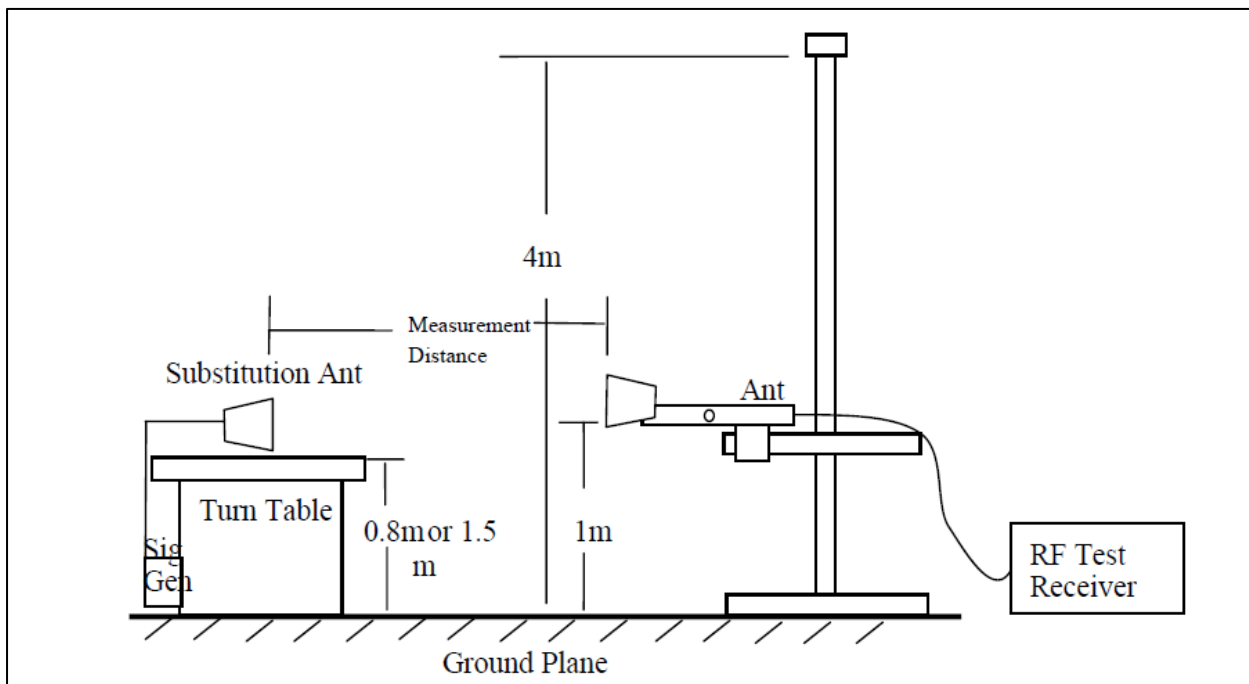
$P_L$  = path loss determined on the frequency of the EUT emission or calculated Using linear interpolation between site characterization frequencies.

- 2) This is the level to be compared against the regulatory limit as it is the emission power referenced back to the EUT on the test site.

**Test site-up for radiated measurements**



**Substitution method set-up for radiated emission**



## 7 TEST RESULTS

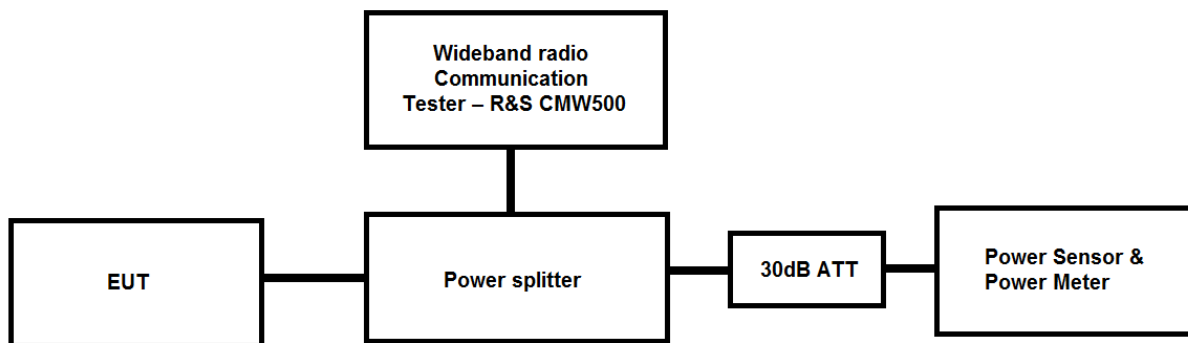
### 7.1 Conducted Output Average Power

**Result**

**Pass**

|                            |                                                                                         |
|----------------------------|-----------------------------------------------------------------------------------------|
| Test Specification         | FCC Part §2.1046, §22.913(a)(5), §24.232(c), §27.50(d)(4), §27.50(b)(10), §27.50(c)(10) |
| Test Method / Procedure    | ANSI C63.26-2015<br>971168 D01 Power Meas License Digital Systems v03r01                |
| Measurement Bandwidth(RBW) | ≥ OBW                                                                                   |
| Detector function          | Peak / Average                                                                          |
| Requirement                | NA                                                                                      |

**Test Setup:**



**Environmental conditions:**

Temperature (Norm) = + 22.3 °C

Voltage = 110V AC 60Hz

Relative humidity = 62 %

**KDB Guidelines applied:**

Measurements were made as per section 5.1.3, section 5.2.4 and section 5.7.3 in KDB 971168 D01 Power Meas License Digital Systems v03r01.

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**Test results:**

**Note:**

1. All the losses are included during measurement and final values are mentioned in the test report.
2. RF Output power (dBm) = Measured power (dBm) + Attenuator factor (30dB) + Power Splitter (6 dB) + Cable loss (1dB)
3. This product do not support additional beamforming gain / directional gain, it uses single antenna and hence directional gain of the single antenna is Refer Clause 3.3.

**Table 6: Conducted Power test results**

| LTE Band | Channel no's | Channel Frequency (MHz) | Cell Bandwidth (MHz) | Average Measured Power (dBm) | Peak Measured Power (dBm) | Average Measured Power (dBm) | Peak Measured Power (dBm) |
|----------|--------------|-------------------------|----------------------|------------------------------|---------------------------|------------------------------|---------------------------|
|          |              |                         |                      | QPSK                         | QPSK                      | 16QAM                        | 16QAM                     |
| 2        | 18607        | 1850.7                  | 1.4                  | 21.96                        | 25.30                     | 20.93                        | 25.22                     |
|          |              |                         |                      | 19.96                        | 22.68                     | 19.82                        | 25.26                     |
|          | 18900        | 1880                    |                      | 21.68                        | 25.20                     | 20.43                        | 22.98                     |
|          |              |                         |                      | 19.51                        | 22.50                     | 19.64                        | 25.12                     |
|          | 19193        | 1909.3                  | 3                    | 21.65                        | 25.08                     | 20.02                        | 22.91                     |
|          |              |                         |                      | 19.68                        | 22.52                     | 19.56                        | 22.90                     |
|          | 18615        | 1851.5                  |                      | 21.11                        | 27.53                     | 21.52                        | 28.46                     |
|          |              |                         |                      | 21.11                        | 28.15                     | 21.60                        | 29.05                     |
|          | 18900        | 1880                    | 5                    | 21.22                        | 27.72                     | 21.08                        | 28.51                     |
|          |              |                         |                      | 22.04                        | 29.02                     | 21.36                        | 29.12                     |
|          | 19185        | 1908.5                  |                      | 21.16                        | 27.44                     | 22.94                        | 28.07                     |
|          |              |                         |                      | 22.00                        | 28.99                     | 21.20                        | 28.96                     |
|          | 18625        | 1852.5                  | 10                   | 21.19                        | 27.60                     | 21.26                        | 27.70                     |
|          |              |                         |                      | 22.05                        | 29.08                     | 22.19                        | 29.12                     |
|          | 18900        | 1880                    |                      | 21.31                        | 27.71                     | 21.39                        | 27.74                     |
|          |              |                         |                      | 22.04                        | 28.99                     | 21.29                        | 28.27                     |
|          | 19175        | 1907.5                  | 15                   | 22.99                        | 27.48                     | 21.30                        | 28.16                     |
|          |              |                         |                      | 22.08                        | 28.91                     | 21.20                        | 29.05                     |
|          | 18650        | 1855                    |                      | 22.88                        | 27.04                     | 22.79                        | 27.60                     |
|          |              |                         |                      | 22.98                        | 27.89                     | 21.38                        | 29.22                     |
|          | 18900        | 1880                    | 20                   | 21.09                        | 27.99                     | 21.88                        | 28.60                     |
|          |              |                         |                      | 21.10                        | 27.57                     | 21.61                        | 28.95                     |
|          | 19150        | 1905                    |                      | 21.19                        | 27.53                     | 22.38                        | 27.55                     |
|          |              |                         |                      | 22.15                        | 28.91                     | 21.46                        | 28.80                     |
|          | 18675        | 1857.5                  | 25                   | 22.36                        | 27.28                     | 21.16                        | 27.56                     |
|          |              |                         |                      | 22.22                        | 29.21                     | 22.10                        | 29.18                     |
|          | 18900        | 1880                    |                      | 21.35                        | 27.80                     | 21.25                        | 27.65                     |
|          |              |                         |                      | 21.27                        | 28.34                     | 22.07                        | 29.15                     |
|          | 19125        | 1902.4                  | 30                   | 21.04                        | 27.55                     | 21.00                        | 27.47                     |
|          |              |                         |                      | 22.10                        | 29.16                     | 22.08                        | 29.09                     |
|          | 18700        | 1860                    |                      | 22.27                        | 27.44                     | 21.35                        | 27.87                     |
|          |              |                         |                      | 21.41                        | 27.94                     | 21.16                        | 28.63                     |
|          | 18900        | 1880                    | 35                   | 21.42                        | 27.82                     | 21.22                        | 27.77                     |
|          |              |                         |                      | 21.18                        | 28.41                     | 22.10                        | 29.30                     |
|          | 19100        | 1900                    | 40                   | 21.12                        | 27.63                     | 21.29                        | 27.63                     |
|          |              |                         |                      | 21.12                        | 27.71                     | 22.13                        | 29.19                     |

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| LTE Band | Channel no's | Channel Frequency (MHz) | Cell Bandwidth (MHz) | Average Measured Power (dBm) | Peak Measured Power (dBm) | Average Measured Power (dBm) | Peak Measured Power (dBm) |
|----------|--------------|-------------------------|----------------------|------------------------------|---------------------------|------------------------------|---------------------------|
|          |              |                         |                      | QPSK                         | QPSK                      | 16QAM                        | 16QAM                     |
| 4        | 19957        | 1710.7                  | 1.4                  | <b>21.92</b>                 | 25.67                     | 20.82                        | 25.36                     |
|          |              |                         |                      | 19.61                        | 22.72                     | 19.53                        | 25.31                     |
|          | 20175        | 1732.5                  |                      | 21.73                        | 25.33                     | 20.17                        | 25.27                     |
|          |              |                         |                      | 19.61                        | 22.86                     | 19.41                        | 25.12                     |
|          | 20393        | 1754.3                  |                      | 21.88                        | 25.43                     | 20.98                        | 25.32                     |
|          |              |                         |                      | 19.97                        | 25.18                     | 19.91                        | 25.52                     |
|          | 19965        | 1711.5                  | 3                    | 22.47                        | 26.90                     | 22.78                        | 28.21                     |
|          |              |                         |                      | 21.87                        | 28.98                     | 22.03                        | 29.77                     |
|          | 20175        | 1732.5                  |                      | <b>22.84</b>                 | 27.45                     | 22.95                        | 28.22                     |
|          |              |                         |                      | 21.88                        | 29.10                     | 21.85                        | 29.67                     |
|          | 20385        | 1753.5                  |                      | 22.80                        | 27.33                     | 22.86                        | 28.07                     |
|          |              |                         |                      | 21.84                        | 29.04                     | 22.04                        | 29.81                     |
|          | 19975        | 1712.5                  | 5                    | <b>22.52</b>                 | 27.18                     | 22.95                        | 27.94                     |
|          |              |                         |                      | 21.46                        | 28.52                     | 21.44                        | 29.36                     |
|          | 20175        | 1732.5                  |                      | 22.52                        | 27.08                     | 22.88                        | 27.96                     |
|          |              |                         |                      | 21.37                        | 28.54                     | 21.46                        | 29.39                     |
|          | 20375        | 1752.5                  |                      | 21.44                        | 28.00                     | 22.65                        | 27.79                     |
|          |              |                         |                      | 21.57                        | 28.65                     | 21.50                        | 29.38                     |
|          | 20000        | 1715                    | 10                   | 21.09                        | 28.05                     | 22.75                        | 28.01                     |
|          |              |                         |                      | 21.81                        | 29.29                     | 21.76                        | 29.22                     |
|          | 20175        | 1732.5                  |                      | 21.10                        | 28.04                     | 21.10                        | 28.03                     |
|          |              |                         |                      | 21.76                        | 29.22                     | 22.71                        | 28.30                     |
|          | 20350        | 1750                    |                      | <b>22.58</b>                 | 27.84                     | 22.48                        | 27.75                     |
|          |              |                         |                      | 21.71                        | 29.13                     | 21.63                        | 29.04                     |
|          | 20025        | 1717.5                  | 15                   | <b>22.60</b>                 | 27.16                     | 22.86                        | 28.11                     |
|          |              |                         |                      | 21.42                        | 28.71                     | 21.73                        | 29.47                     |
|          | 20175        | 1732.5                  |                      | 21.52                        | 28.04                     | 21.10                        | 28.07                     |
|          |              |                         |                      | 21.35                        | 28.77                     | 21.43                        | 29.41                     |
|          | 20325        | 1747.5                  |                      | 22.30                        | 26.90                     | 22.56                        | 27.88                     |
|          |              |                         |                      | 21.45                        | 28.70                     | 21.62                        | 29.37                     |
|          | 20050        | 1720                    | 20                   | <b>22.63</b>                 | 27.20                     | 22.88                        | 28.16                     |
|          |              |                         |                      | 21.42                        | 28.67                     | 21.65                        | 29.55                     |
|          | 20175        | 1732.5                  |                      | 22.47                        | 27.17                     | 21.16                        | 28.11                     |
|          |              |                         |                      | 21.38                        | 28.88                     | 21.52                        | 29.44                     |
|          | 20300        | 1745                    |                      | 22.30                        | 26.88                     | 22.58                        | 27.85                     |
|          |              |                         |                      | 21.41                        | 28.64                     | 21.60                        | 29.40                     |

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| LTE Band | Channel no's | Channel Frequency (MHz) | Cell Bandwidth (MHz) | Average Measured Power (dBm) QPSK | Peak Measured Power (dBm) QPSK | Average Measured Power (dBm) 16QAM | Peak Measured Power (dBm) 16QAM |
|----------|--------------|-------------------------|----------------------|-----------------------------------|--------------------------------|------------------------------------|---------------------------------|
| 5        | 20407        | 824.7                   | 1.4                  | 22.40                             | 26.29                          | 21.44                              | 26.16                           |
|          |              |                         |                      | 20.53                             | 25.57                          | 20.32                              | 25.87                           |
|          | 20525        | 836.5                   |                      | 22.15                             | 26.10                          | 21.60                              | 26.06                           |
|          |              |                         |                      | 20.10                             | 25.20                          | 20.22                              | 25.76                           |
|          | 20643        | 848.3                   |                      | 22.58                             | 26.51                          | 21.76                              | 26.53                           |
|          |              |                         |                      | 20.47                             | 25.37                          | 20.64                              | 26.05                           |
|          | 20415        | 825.5                   | 3                    | 22.93                             | 27.45                          | 22.88                              | 28.31                           |
|          |              |                         |                      | 21.71                             | 29.00                          | 22.05                              | 29.82                           |
|          | 20525        | 836.5                   |                      | 22.66                             | 27.26                          | 22.74                              | 28.21                           |
|          |              |                         |                      | 21.53                             | 28.80                          | 21.75                              | 29.70                           |
|          | 20635        | 847.5                   |                      | 22.72                             | 27.29                          | 22.96                              | 28.31                           |
|          |              |                         |                      | 21.99                             | 29.17                          | 22.01                              | 20.02                           |
|          | 20425        | 826.5                   | 5                    | 21.03                             | 27.48                          | 22.86                              | 28.21                           |
|          |              |                         |                      | 21.69                             | 28.90                          | 21.92                              | 29.64                           |
|          | 20525        | 836.5                   |                      | 22.89                             | 27.38                          | 21.21                              | 28.13                           |
|          |              |                         |                      | 21.47                             | 28.76                          | 21.83                              | 29.69                           |
|          | 20625        | 846.5                   |                      | 22.96                             | 27.12                          | 22.13                              | 27.44                           |
|          |              |                         |                      | 22.03                             | 29.28                          | 21.34                              | 29.21                           |
|          | 20450        | 829                     | 10                   | 22.77                             | 27.20                          | 21.16                              | 28.34                           |
|          |              |                         |                      | 21.41                             | 28.45                          | 22.16                              | 29.42                           |
|          | 20525        | 836.5                   |                      | 22.83                             | 27.05                          | 21.52                              | 28.40                           |
|          |              |                         |                      | 21.77                             | 28.61                          | 22.05                              | 29.35                           |
|          | 20600        | 844                     |                      | 22.92                             | 27.43                          | 21.22                              | 28.40                           |
|          |              |                         |                      | 21.95                             | 28.83                          | 21.38                              | 28.77                           |

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| LTE Band | Channel no's | Channel Frequency (MHz) | Cell Bandwidth (MHz) | Average Measured Power (dBm) | Peak Measured Power (dBm) | Average Measured Power (dBm) | Peak Measured Power (dBm) |
|----------|--------------|-------------------------|----------------------|------------------------------|---------------------------|------------------------------|---------------------------|
|          |              |                         |                      | QPSK                         | QPSK                      | 16QAM                        | 16QAM                     |
| 12       | 23017        | 699.7                   | 1.4                  | 22.16                        | 26.25                     | 21.79                        | 26.38                     |
|          |              |                         |                      | 20.12                        | 21.85                     | 19.86                        | 25.66                     |
|          | 23095        | 707.5                   |                      | 22.08                        | 26.19                     | 20.78                        | 25.73                     |
|          |              |                         |                      | 19.82                        | 21.92                     | 19.83                        | 25.54                     |
|          | 23173        | 715.3                   |                      | 22.10                        | 26.21                     | 21.26                        | 25.85                     |
|          |              |                         |                      | 19.98                        | 25.02                     | 19.90                        | 25.59                     |
|          | 23025        | 700.5                   | 3                    | 22.35                        | 27.73                     | 22.15                        | 29.61                     |
|          |              |                         |                      | 22.17                        | 28.29                     | 22.36                        | 29.22                     |
|          | 23095        | 707.5                   |                      | 22.29                        | 27.61                     | 22.58                        | 28.68                     |
|          | 22.20        |                         |                      | 28.36                        | 21.19                     | 29.13                        |                           |
|          | 23165        | 714.5                   |                      | 22.53                        | 26.95                     | 22.30                        | 27.82                     |
|          |              |                         |                      | 22.66                        | 28.84                     | 22.82                        | 29.59                     |
|          | 23035        | 701.5                   | 5                    | 22.45                        | 26.87                     | 22.11                        | 27.71                     |
|          |              |                         |                      | 22.34                        | 28.46                     | 22.44                        | 29.25                     |
|          | 23095        | 707.5                   |                      | 22.45                        | 26.70                     | 22.91                        | 27.89                     |
|          | 22.30        |                         |                      | 28.57                        | 22.52                     | 29.27                        |                           |
|          | 23155        | 713.5                   |                      | 22.71                        | 27.08                     | 22.51                        | 27.85                     |
|          |              |                         |                      | 22.81                        | 28.85                     | 22.90                        | 29.53                     |
|          | 23060        | 704                     | 10                   | 22.80                        | 27.96                     | 22.68                        | 27.82                     |
|          |              |                         |                      | 22.80                        | 29.14                     | 22.68                        | 29.03                     |
|          | 23095        | 707.5                   |                      | 22.62                        | 26.73                     | 22.14                        | 27.93                     |
|          | 22.63        |                         |                      | 28.44                        | 22.77                     | 29.15                        |                           |
|          | 23130        | 711                     |                      | 22.61                        | 27.00                     | 22.74                        | 27.88                     |
|          |              |                         |                      | 22.71                        | 28.50                     | 22.89                        | 29.17                     |

| LTE Band | Channel no's | Channel Frequency (MHz) | Cell Bandwidth (MHz) | Average Measured Power (dBm) | Peak Measured Power (dBm) | Average Measured Power (dBm) | Peak Measured Power (dBm) |
|----------|--------------|-------------------------|----------------------|------------------------------|---------------------------|------------------------------|---------------------------|
|          |              |                         |                      | QPSK                         | QPSK                      | 16QAM                        | 16QAM                     |
| 13       | 23025        | 779.5                   | 5                    | 22.53                        | 26.51                     | 22.07                        | 27.78                     |
|          |              |                         |                      | 21.22                        | 28.10                     | 22.62                        | 29.18                     |
|          | 23230        | 782                     |                      | 22.57                        | 26.63                     | 22.15                        | 27.72                     |
|          |              |                         |                      | 22.25                        | 28.09                     | 22.60                        | 29.16                     |
|          | 23255        | 784.5                   |                      | 21.07                        | 27.21                     | 22.42                        | 27.56                     |
|          |              |                         |                      | 21.29                        | 28.40                     | 22.63                        | 29.04                     |
|          | 23230        | 782                     | 10                   | 22.52                        | 26.76                     | 22.05                        | 27.42                     |
|          |              |                         |                      | 22.41                        | 27.86                     | 22.52                        | 28.77                     |

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| LTE Band | Channel no's | Channel Frequency (MHz) | Cell Bandwidth (MHz) | Average Measured Power (dBm) | Peak Measured Power (dBm) | Average Measured Power (dBm) | Peak Measured Power (dBm) |
|----------|--------------|-------------------------|----------------------|------------------------------|---------------------------|------------------------------|---------------------------|
|          |              |                         |                      | QPSK                         | QPSK                      | 16QAM                        | 16QAM                     |
| 25       | 26047        | 1850.7                  | 1.4                  | 21.82                        | 25.30                     | 20.58                        | 25.08                     |
|          |              |                         |                      | 19.65                        | 22.57                     | 19.79                        | 25.21                     |
|          | 26365        | 1882.5                  |                      | 21.64                        | 25.18                     | 20.32                        | 22.90                     |
|          |              |                         |                      | 19.46                        | 22.48                     | 19.37                        | 22.90                     |
|          | 26683        | 1914.3                  |                      | 21.68                        | 25.07                     | 20.26                        | 22.79                     |
|          |              |                         |                      | 19.38                        | 22.30                     | 19.42                        | 22.78                     |
|          | 26055        | 1851.5                  | 3                    | 22.58                        | 26.95                     | 22.37                        | 27.69                     |
|          |              |                         |                      | 21.39                        | 28.45                     | 21.60                        | 29.22                     |
|          | 26365        | 1882.5                  |                      | 21.20                        | 27.74                     | 21.63                        | 28.56                     |
|          |              |                         |                      | 21.39                        | 28.53                     | 21.37                        | 29.10                     |
|          | 26675        | 1913.5                  |                      | 22.99                        | 27.43                     | 21.41                        | 28.40                     |
|          |              |                         |                      | 21.25                        | 28.20                     | 21.25                        | 28.97                     |
|          | 26065        | 1852.5                  | 5                    | 22.27                        | 26.65                     | 21.05                        | 28.37                     |
|          |              |                         |                      | 21.57                        | 28.45                     | 21.65                        | 29.36                     |
|          | 26365        | 1882.5                  |                      | 21.16                        | 27.51                     | 21.13                        | 28.29                     |
|          |              |                         |                      | 21.92                        | 28.99                     | 21.92                        | 29.44                     |
|          | 26665        | 1912.5                  |                      | 22.80                        | 27.21                     | 22.94                        | 27.97                     |
|          |              |                         |                      | 21.96                        | 29.04                     | 21.81                        | 29.30                     |
|          | 26090        | 1855                    | 10                   | 21.21                        | 27.57                     | 22.47                        | 27.66                     |
|          |              |                         |                      | 22.14                        | 28.94                     | 21.50                        | 28.84                     |
|          | 26365        | 1882.5                  |                      | 21.02                        | 27.07                     | 21.68                        | 28.40                     |
|          |              |                         |                      | 21.98                        | 28.70                     | 21.29                        | 28.95                     |
|          | 26640        | 1910                    |                      | 22.77                        | 27.19                     | 21.09                        | 28.10                     |
|          |              |                         |                      | 21.81                        | 28.54                     | 22.33                        | 29.25                     |
|          | 26115        | 1857.5                  | 15                   | 21.22                        | 27.61                     | 21.46                        | 28.52                     |
|          |              |                         |                      | 22.03                        | 29.15                     | 21.31                        | 29.02                     |
|          | 26365        | 1882.5                  |                      | 21.11                        | 27.14                     | 21.58                        | 28.42                     |
|          |              |                         |                      | 21.99                        | 29.01                     | 21.08                        | 28.86                     |
|          | 26615        | 1907.5                  |                      | 22.80                        | 27.19                     | 21.05                        | 28.17                     |
|          |              |                         |                      | 21.72                        | 28.82                     | 22.14                        | 29.42                     |
|          | 26140        | 1860                    | 20                   | 21.17                        | 27.56                     | 21.50                        | 28.48                     |
|          |              |                         |                      | 22.07                        | 29.09                     | 21.16                        | 29.01                     |
|          | 26365        | 1882.5                  |                      | 21.05                        | 27.15                     | 21.39                        | 28.40                     |
|          |              |                         |                      | 21.90                        | 28.99                     | 22.17                        | 29.61                     |
|          | 26590        | 1905                    |                      | 22.68                        | 27.13                     | 21.03                        | 28.13                     |
|          |              |                         |                      | 21.84                        | 28.85                     | 22.17                        | 29.43                     |

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| LTE Band | Channel no's | Channel Frequency (MHz) | Cell Bandwidth (MHz) | Average Measured Power (dBm) QPSK | Peak Measured Power (dBm) QPSK | Average Measured Power (dBm) 16QAM | Peak Measured Power (dBm) 16QAM |
|----------|--------------|-------------------------|----------------------|-----------------------------------|--------------------------------|------------------------------------|---------------------------------|
| 26       | 26797        | 814.7                   | 1.4                  | 22.98                             | 26.71                          | 22.43                              | 26.72                           |
|          |              |                         |                      | 20.86                             | 25.43                          | 20.70                              | 25.89                           |
|          | 26915        | 831.4                   |                      | 22.51                             | 26.31                          | 21.66                              | 26.26                           |
|          |              |                         |                      | 20.40                             | 25.10                          | 20.39                              | 25.75                           |
|          | 27033        | 848.2                   |                      | 21.05                             | 26.82                          | 22.39                              | 26.55                           |
|          |              |                         |                      | 21.19                             | 25.89                          | 21.20                              | 26.55                           |
|          | 26805        | 815.5                   | 3                    | 21.18                             | 27.63                          | 21.28                              | 28.22                           |
|          |              |                         |                      | 22.10                             | 29.05                          | 21.17                              | 28.89                           |
|          | 26915        | 831.4                   |                      | 21.09                             | 27.35                          | 21.21                              | 28.21                           |
|          |              |                         |                      | 21.60                             | 28.78                          | 21.72                              | 29.51                           |
|          | 27025        | 847.4                   |                      | 21.05                             | 27.33                          | 22.72                              | 27.90                           |
|          |              |                         |                      | 21.97                             | 29.16                          | 21.09                              | 28.87                           |
|          | 26815        | 816.5                   | 5                    | 21.20                             | 27.55                          | 21.55                              | 28.57                           |
|          |              |                         |                      | 21.74                             | 28.91                          | 21.35                              | 29.01                           |
|          | 26915        | 831.4                   |                      | 21.02                             | 27.39                          | 21.32                              | 28.21                           |
|          |              |                         |                      | 21.53                             | 28.49                          | 21.70                              | 29.43                           |
|          | 27015        | 846.5                   |                      | 22.93                             | 27.36                          | 21.11                              | 28.28                           |
|          |              |                         |                      | 21.82                             | 29.15                          | 21.36                              | 29.07                           |
|          | 26840        | 819                     | 10                   | 22.67                             | 26.20                          | 22.98                              | 27.01                           |
|          |              |                         |                      | 22.58                             | 26.76                          | 21.76                              | 26.65                           |
|          | 26915        | 831.4                   |                      | 22.37                             | 25.98                          | 22.65                              | 26.83                           |
|          |              |                         |                      | 22.56                             | 26.80                          | 21.55                              | 26.51                           |
|          | 26990        | 843.9                   |                      | 22.40                             | 26.28                          | 22.80                              | 27.20                           |
|          |              |                         |                      | 22.34                             | 27.39                          | 22.21                              | 27.02                           |
|          | 26765        | 821.5                   | 15                   | 22.72                             | 26.39                          | 21.45                              | 28.59                           |
|          |              |                         |                      | 22.59                             | 28.94                          | 22.38                              | 27.97                           |
|          | 26915        | 831.4                   |                      | 22.93                             | 27.30                          | 21.20                              | 28.28                           |
|          |              |                         |                      | 21.68                             | 29.13                          | 22.04                              | 29.71                           |
|          | 26965        | 841.4                   |                      | 22.46                             | 26.85                          | 22.98                              | 27.88                           |
|          |              |                         |                      | 21.56                             | 28.89                          | 21.77                              | 29.48                           |

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| LTE Band | Channel no's | Channel Frequency (MHz) | Cell Bandwidth (MHz) | Average Measured Power (dBm) | Peak Measured Power (dBm) | Average Measured Power (dBm) | Peak Measured Power (dBm) |
|----------|--------------|-------------------------|----------------------|------------------------------|---------------------------|------------------------------|---------------------------|
|          |              |                         |                      | QPSK                         | QPSK                      | 16QAM                        | 16QAM                     |
| 66       | 131979       | 1710.7                  | 1.4                  | 21.96                        | 25.70                     | 19.82                        | 24.78                     |
|          |              |                         |                      | 19.76                        | 24.78                     | 19.92                        | 25.39                     |
|          | 132322       | 1745                    |                      | 21.72                        | 25.60                     | 20.78                        | 25.34                     |
|          |              |                         |                      | 19.60                        | 24.78                     | 19.49                        | 25.20                     |
|          | 132665       | 1770.3                  |                      | 21.20                        | 25.22                     | 20.54                        | 25.23                     |
|          |              |                         |                      | 19.31                        | 24.27                     | 19.39                        | 24.79                     |
|          | 131987       | 1711.5                  | 3                    | 22.27                        | 27.92                     | 22.58                        | 28.68                     |
|          |              |                         |                      | 22.30                        | 28.39                     | 22.46                        | 29.23                     |
|          | 132322       | 1745                    |                      | 22.08                        | 29.10                     | 22.33                        | 27.80                     |
|          |              |                         |                      | 22.44                        | 27.94                     | 22.70                        | 28.55                     |
|          | 132657       | 1778.5                  |                      | 22.32                        | 27.99                     | 22.95                        | 28.19                     |
|          |              |                         |                      | 22.01                        | 27.88                     | 22.71                        | 29.66                     |
|          | 131997       | 1712.5                  | 5                    | 22.49                        | 28.00                     | 22.68                        | 28.00                     |
|          |              |                         |                      | 22.26                        | 28.34                     | 22.54                        | 29.36                     |
|          | 132322       | 1745                    |                      | 22.44                        | 27.94                     | 22.78                        | 28.46                     |
|          |              |                         |                      | 21.32                        | 28.34                     | 22.87                        | 29.69                     |
|          | 132647       | 1777.5                  |                      | 22.04                        | 27.60                     | 22.15                        | 28.45                     |
|          |              |                         |                      | 21.22                        | 28.38                     | 22.27                        | 29.26                     |
|          | 132022       | 1715                    | 10                   | 22.15                        | 25.79                     | 22.10                        | 25.91                     |
|          |              |                         |                      | 22.03                        | 25.90                     | 21.03                        | 25.77                     |
|          | 132322       | 1745                    |                      | 21.83                        | 25.46                     | 21.65                        | 25.71                     |
|          |              |                         |                      | 21.80                        | 25.80                     | 20.77                        | 25.70                     |
|          | 132622       | 1775                    |                      | 22.08                        | 25.65                     | 22.05                        | 25.76                     |
|          |              |                         |                      | 21.83                        | 25.74                     | 20.98                        | 25.68                     |
|          | 132047       | 1717.5                  | 15                   | 21.45                        | 27.99                     | 22.98                        | 27.98                     |
|          |              |                         |                      | 22.36                        | 28.61                     | 22.02                        | 28.00                     |
|          | 132322       | 1745                    |                      | 22.38                        | 26.98                     | 22.74                        | 27.97                     |
|          |              |                         |                      | 21.25                        | 28.61                     | 22.64                        | 28.01                     |
|          | 132597       | 1772.5                  |                      | 22.11                        | 27.63                     | 22.65                        | 27.97                     |
|          |              |                         |                      | 22.19                        | 28.51                     | 22.45                        | 29.28                     |
| 132072   | 1720         | 20                      | 22.34                | 27.96                        | 22.7                      | 28.97                        |                           |
|          |              |                         | 22.35                | 28.76                        | 22.53                     | 29.48                        |                           |
| 132322   | 1745         |                         | 22.38                | 28.03                        | 22.92                     | 28.09                        |                           |
|          |              |                         | 21.31                | 28.78                        | 22.49                     | 29.43                        |                           |
| 132572   | 1770         |                         | 22.91                | 27.63                        | 22.71                     | 28.58                        |                           |
|          |              |                         | 22.13                | 28.32                        | 22.42                     | 29.29                        |                           |

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| LTE Band | Channel no's | Channel Frequency (MHz) | Cell Bandwidth (MHz) | Average Measured Power (dBm) | Peak Measured Power (dBm) | Average Measured Power (dBm) | Peak Measured Power (dBm) |
|----------|--------------|-------------------------|----------------------|------------------------------|---------------------------|------------------------------|---------------------------|
|          |              |                         |                      | QPSK                         | QPSK                      | 16QAM                        | 16QAM                     |
| 85       | 134027       | 700.5                   | 5                    | 22.67                        | 27.72                     | 22.61                        | 27.63                     |
|          |              |                         |                      | 22.50                        | 29.17                     | 22.38                        | 29.09                     |
|          | 134092       | 707                     |                      | 22.79                        | 27.66                     | 22.64                        | 27.70                     |
|          |              |                         |                      | 22.57                        | 29.15                     | 22.18                        | 29.10                     |
|          | 134157       | 713.5                   |                      | 22.83                        | 27.60                     | 22.96                        | 27.76                     |
|          |              |                         |                      | 22.61                        | 29.28                     | 22.51                        | 29.32                     |
|          | 134052       | 703                     | 10                   | 22.48                        | 26.70                     | 22.03                        | 27.62                     |
|          |              |                         |                      | 22.34                        | 27.83                     | 22.53                        | 27.83                     |
|          | 134092       | 707                     |                      | 22.49                        | 27.71                     | 22.11                        | 27.71                     |
|          |              |                         |                      | 22.45                        | 26.95                     | 22.72                        | 28.00                     |
|          | 134132       | 711                     |                      | 22.46                        | 27.66                     | 22.78                        | 27.70                     |
|          |              |                         |                      | 22.58                        | 27.21                     | 22.92                        | 28.10                     |

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**GSM Test Results:**

|              |         | Conducted Power (dBm) |             |              |
|--------------|---------|-----------------------|-------------|--------------|
| GSM 850      |         | Channel 128           | Channel 190 | Channel 251  |
|              |         | 824.2 (MHz)           | 836.6 (MHz) | 848.8 (MHz)  |
| GPRS (GMSK)  | 1TXslot | 32.54                 | 32.81       | 32.88        |
|              | 2TXslot | 32.79                 | 32.68       | 32.88        |
|              | 3TXslot | 32.80                 | 32.67       | 32.89        |
|              | 4TXslot | 32.82                 | 32.70       | <b>32.93</b> |
| EGPRS (8PSK) | 1TXslot | 32.59                 | 32.78       | <b>32.96</b> |
|              | 2TXslot | 32.53                 | 32.78       | 32.96        |
|              | 3TXslot | 32.90                 | 32.77       | 32.95        |
|              | 4TXslot | 32.90                 | 32.76       | 32.95        |

|              |         | Conducted Power (dBm) |             |              |
|--------------|---------|-----------------------|-------------|--------------|
| GSM 1900     |         | Channel Number 512    | Channel 661 | Channel 810  |
|              |         | 1850.2 (MHz)          | 1880 (MHz)  | 1909.8 (MHz) |
| GPRS (GMSK)  | 1TXslot | 28.72                 | 28.10       | 28.30        |
|              | 2TXslot | <b>28.78</b>          | 28.10       | 28.33        |
|              | 3TXslot | 28.75                 | 28.14       | 28.34        |
|              | 4TXslot | 28.77                 | 28.18       | 28.34        |
| EGPRS (8PSK) | 1TXslot | 28.68                 | 28.04       | 28.25        |
|              | 2TXslot | 28.69                 | 28.03       | 28.27        |
|              | 3TXslot | <b>28.80</b>          | 28.16       | 28.32        |
|              | 4TXslot | 28.70                 | 28.05       | 28.27        |

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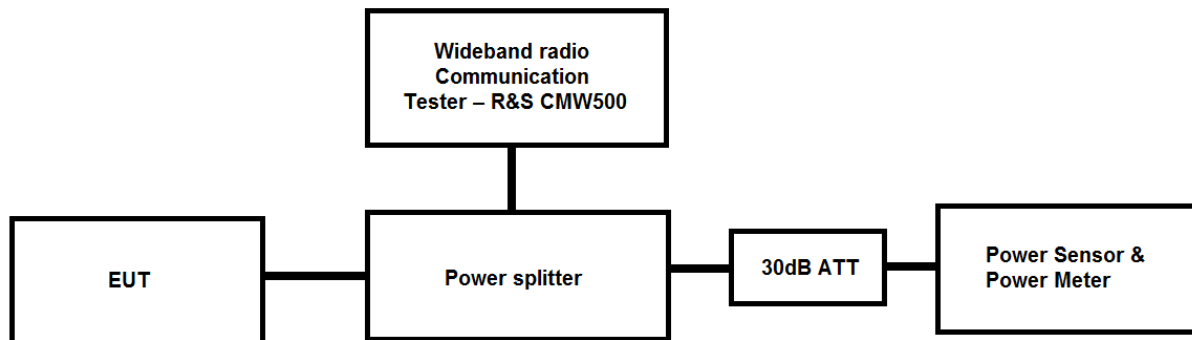
## 7.2 Peak to Average Power Ratio (PAPR)

### Result

|                            |                                                                                         |
|----------------------------|-----------------------------------------------------------------------------------------|
| Test Specification         | FCC Part §2.1046, §22.913(a)(5), §24.232(c), §27.50(d)(4), §27.50(b)(10), §27.50(c)(10) |
| Test Method / Procedure    | ANSI C63.26-2015<br>971168 D01 Power Meas License Digital Systems v03r01                |
| Measurement Bandwidth(RBW) | ≥ OBW                                                                                   |
| Detector function          | Peak / Average                                                                          |
| Requirement                | PAPR ≤ 13dB                                                                             |

### Pass

### Test Setup:



### Environmental conditions:

Temperature (Norm) = + 22.3 °C

Voltage = 110V AC 60Hz

Relative humidity = 62 %

### KDB Guidelines applied:

Measurements were made as per section 5.1.3, section 5.2.4 and section 5.7.3 in KDB 971168 D01 Power Meas License Digital Systems v03r01.

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**Test results:**

**Note:**

1. All the losses are included during measurement and final values are mentioned in the test report.
2. Total Average Output power (dBm) = Measured Average power (dBm) + Attenuator factor (30dB) + Power Splitter (6 dB) + Cable loss (1dB)
3. This product do not support additional beamforming gain / directional gain, it uses single antenna and hence directional gain of the single antenna is Refer Clause 3.3.
4. PAPR (dB) = Measured peak power (dBm) – Measured average power (dBm)

**Table 7: PAPR test results**

| LTE Band | Channel no's | Channel Frequency (MHz) | Cell Bandwidth (MHz) | Average Measured Power (dBm) | Peak Measured Power (dBm) | PAPR (dB) | Limit (dB) |
|----------|--------------|-------------------------|----------------------|------------------------------|---------------------------|-----------|------------|
|          |              |                         |                      | QPSK                         | QPSK                      |           |            |
| 2        | 18607        | 1850.7                  | 1.4                  | 21.96                        | 25.30                     | 3.34      | ≤13        |
|          |              |                         |                      | 19.96                        | 24.68                     | 4.72      | ≤13        |
|          | 18900        | 1880                    |                      | 21.68                        | 25.20                     | 3.52      | ≤13        |
|          |              |                         |                      | 19.51                        | 24.50                     | 4.99      | ≤13        |
|          | 19193        | 1909.3                  |                      | 21.65                        | 25.08                     | 3.43      | ≤13        |
|          |              |                         |                      | 19.68                        | 24.52                     | 4.84      | ≤13        |
|          | 18615        | 1851.5                  | 3                    | 23.11                        | 27.53                     | 4.42      | ≤13        |
|          |              |                         |                      | 23.11                        | 28.15                     | 5.04      | ≤13        |
|          | 18900        | 1880                    |                      | 23.24                        | 27.72                     | 4.48      | ≤13        |
|          |              |                         |                      | 24.04                        | 29.02                     | 4.98      | ≤13        |
|          | 19185        | 1908.5                  |                      | 23.16                        | 27.44                     | 4.28      | ≤13        |
|          |              |                         |                      | 24.00                        | 28.99                     | 4.99      | ≤13        |
|          | 18625        | 1852.5                  | 5                    | 23.19                        | 27.60                     | 4.41      | ≤13        |
|          |              |                         |                      | 24.05                        | 29.08                     | 5.03      | ≤13        |
|          | 18900        | 1880                    |                      | 23.31                        | 27.71                     | 4.40      | ≤13        |
|          |              |                         |                      | 24.04                        | 28.99                     | 4.95      | ≤13        |
|          | 19175        | 1907.5                  |                      | 22.99                        | 27.48                     | 4.49      | ≤13        |
|          |              |                         |                      | 24.08                        | 28.91                     | 4.83      | ≤13        |
|          | 18650        | 1855                    | 10                   | 22.88                        | 27.04                     | 4.16      | ≤13        |
|          |              |                         |                      | 22.98                        | 27.89                     | 4.91      | ≤13        |
|          | 18900        | 1880                    |                      | 23.09                        | 27.99                     | 4.90      | ≤13        |
|          |              |                         |                      | 23.10                        | 27.57                     | 4.47      | ≤13        |
|          | 19150        | 1905                    |                      | 23.19                        | 27.53                     | 4.34      | ≤13        |
|          |              |                         |                      | 24.15                        | 28.91                     | 4.76      | ≤13        |
|          | 18675        | 1857.5                  | 15                   | 24.12                        | 27.28                     | 2.92      | ≤13        |
|          |              |                         |                      | 24.22                        | 29.21                     | 4.99      | ≤13        |
|          | 18900        | 1880                    |                      | 23.35                        | 27.8                      | 4.45      | ≤13        |
|          |              |                         |                      | 23.27                        | 28.34                     | 5.07      | ≤13        |
|          | 19125        | 1902.4                  |                      | 23.04                        | 27.55                     | 4.51      | ≤13        |
|          |              |                         |                      | 24.10                        | 29.16                     | 5.06      | ≤13        |
|          | 18700        | 1860                    | 20                   | 22.27                        | 27.44                     | 5.17      | ≤13        |
|          |              |                         |                      | 23.41                        | 27.94                     | 4.53      | ≤13        |
|          | 18900        | 1880                    |                      | 23.42                        | 27.82                     | 4.40      | ≤13        |
|          |              |                         |                      | 23.18                        | 28.41                     | 5.23      | ≤13        |
|          | 19100        | 1900                    |                      | 23.12                        | 27.63                     | 4.51      | ≤13        |
|          |              |                         |                      | 23.12                        | 27.71                     | 4.59      | ≤13        |

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| LTE Band | Channel no's | Channel Frequency (MHz) | Cell Bandwidth (MHz) | Average Measured Power (dBm) | Peak Measured Power (dBm) | PAPR(dB) | Limit(dB) |
|----------|--------------|-------------------------|----------------------|------------------------------|---------------------------|----------|-----------|
|          |              |                         |                      | 16QAM                        | 16QAM                     |          |           |
| 2        | 18607        | 1850.7                  | 1.4                  | 20.93                        | 25.22                     | 4.29     | ≤13       |
|          |              |                         |                      | 19.82                        | 25.26                     | 5.44     | ≤13       |
|          | 18900        | 1880                    |                      | 20.43                        | 24.98                     | 4.55     | ≤13       |
|          |              |                         |                      | 19.64                        | 25.12                     | 5.48     | ≤13       |
|          | 19193        | 1909.3                  |                      | 20.02                        | 24.91                     | 4.89     | ≤13       |
|          |              |                         |                      | 19.56                        | 24.90                     | 5.34     | ≤13       |
|          | 18615        | 1851.5                  | 3                    | 23.52                        | 28.46                     | 4.94     | ≤13       |
|          |              |                         |                      | 23.60                        | 29.05                     | 5.45     | ≤13       |
|          | 18900        | 1880                    |                      | 23.08                        | 28.51                     | 5.43     | ≤13       |
|          |              |                         |                      | 23.36                        | 29.12                     | 5.76     | ≤13       |
|          | 19185        | 1908.5                  |                      | 22.94                        | 28.07                     | 5.13     | ≤13       |
|          |              |                         |                      | 23.20                        | 28.96                     | 5.76     | ≤13       |
|          | 18625        | 1852.5                  | 5                    | 23.26                        | 27.70                     | 4.44     | ≤13       |
|          |              |                         |                      | 24.19                        | 29.12                     | 4.93     | ≤13       |
|          | 18900        | 1880                    |                      | 23.39                        | 27.74                     | 4.35     | ≤13       |
|          |              |                         |                      | 23.29                        | 28.27                     | 4.98     | ≤13       |
|          | 19175        | 1907.5                  |                      | 23.30                        | 28.16                     | 4.86     | ≤13       |
|          |              |                         |                      | 23.20                        | 29.05                     | 5.85     | ≤13       |
|          | 18650        | 1855                    | 10                   | 22.79                        | 27.60                     | 4.81     | ≤13       |
|          |              |                         |                      | 23.38                        | 29.24                     | 5.86     | ≤13       |
|          | 18900        | 1880                    |                      | 23.88                        | 28.60                     | 4.72     | ≤13       |
|          |              |                         |                      | 23.61                        | 28.95                     | 5.34     | ≤13       |
|          | 19150        | 1905                    |                      | 22.38                        | 27.55                     | 5.17     | ≤13       |
|          |              |                         |                      | 23.46                        | 28.80                     | 5.34     | ≤13       |
|          | 18675        | 1857.5                  | 15                   | 23.16                        | 27.56                     | 4.40     | ≤13       |
|          |              |                         |                      | 24.10                        | 29.18                     | 5.08     | ≤13       |
|          | 18900        | 1880                    |                      | 23.25                        | 27.65                     | 4.40     | ≤13       |
|          |              |                         |                      | 24.07                        | 29.15                     | 5.08     | ≤13       |
|          | 19125        | 1902.4                  |                      | 23.00                        | 27.47                     | 4.47     | ≤13       |
|          |              |                         |                      | 24.08                        | 29.09                     | 5.01     | ≤13       |
|          | 18700        | 1860                    | 20                   | 23.35                        | 27.87                     | 4.52     | ≤13       |
|          |              |                         |                      | 23.16                        | 28.63                     | 5.47     | ≤13       |
|          | 18900        | 1880                    |                      | 23.24                        | 27.77                     | 4.53     | ≤13       |
|          |              |                         |                      | 24.10                        | 29.30                     | 5.20     | ≤13       |
|          | 19100        | 1900                    |                      | 23.29                        | 27.63                     | 4.34     | ≤13       |
|          |              |                         |                      | 24.13                        | 29.19                     | 5.06     | ≤13       |

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|----------|--------------|-------------------------|----------------------|------------------------------|---------------------------|-----------|-----------|
|          |              |                         |                      | QPSK                         | QPSK                      |           |           |
| 4        | 19957        | 1710.7                  | 1.4                  | 21.92                        | 25.67                     | 3.75      | ≤13       |
|          |              |                         |                      | 19.61                        | 24.72                     | 5.11      | ≤13       |
|          | 20175        | 1732.5                  |                      | 21.73                        | 25.33                     | 3.60      | ≤13       |
|          |              |                         |                      | 19.61                        | 24.86                     | 5.25      | ≤13       |
|          | 20393        | 1754.3                  |                      | 21.88                        | 25.43                     | 3.55      | ≤13       |
|          |              |                         |                      | 19.97                        | 25.18                     | 5.21      | ≤13       |
|          | 19965        | 1711.5                  | 3                    | 22.47                        | 26.90                     | 4.43      | ≤13       |
|          |              |                         |                      | 23.87                        | 28.98                     | 5.11      | ≤13       |
|          | 20175        | 1732.5                  |                      | 22.84                        | 27.45                     | 4.61      | ≤13       |
|          |              |                         |                      | 23.88                        | 29.10                     | 5.22      | ≤13       |
|          | 20385        | 1753.5                  |                      | 22.80                        | 27.33                     | 4.53      | ≤13       |
|          |              |                         |                      | 23.84                        | 29.04                     | 5.20      | ≤13       |
|          | 19975        | 1712.5                  | 5                    | 22.52                        | 27.18                     | 4.66      | ≤13       |
|          |              |                         |                      | 23.46                        | 28.52                     | 5.06      | ≤13       |
|          | 20175        | 1732.5                  |                      | 22.52                        | 27.08                     | 4.56      | ≤13       |
|          |              |                         |                      | 23.37                        | 28.54                     | 5.17      | ≤13       |
|          | 20375        | 1752.5                  |                      | 23.44                        | 28.00                     | 4.56      | ≤13       |
|          |              |                         |                      | 23.57                        | 28.65                     | 5.08      | ≤13       |
|          | 20000        | 1715                    | 10                   | 23.09                        | 28.05                     | 4.96      | ≤13       |
|          |              |                         |                      | 23.81                        | 29.29                     | 5.48      | ≤13       |
|          | 20175        | 1732.5                  |                      | 23.10                        | 28.04                     | 4.94      | ≤13       |
|          |              |                         |                      | 23.76                        | 29.24                     | 5.48      | ≤13       |
|          | 20350        | 1750                    |                      | 22.58                        | 27.84                     | 5.26      | ≤13       |
|          |              |                         |                      | 23.71                        | 29.13                     | 5.42      | ≤13       |
|          | 20025        | 1717.5                  | 15                   | 22.60                        | 27.16                     | 4.56      | ≤13       |
|          |              |                         |                      | 23.42                        | 28.71                     | 5.29      | ≤13       |
|          | 20175        | 1732.5                  |                      | 23.52                        | 28.04                     | 4.52      | ≤13       |
|          |              |                         |                      | 23.35                        | 28.77                     | 5.42      | ≤13       |
|          | 20325        | 1747.5                  |                      | 22.30                        | 26.90                     | 4.60      | ≤13       |
|          |              |                         |                      | 23.45                        | 28.70                     | 5.25      | ≤13       |
|          | 20050        | 1720                    | 20                   | 22.63                        | 27.20                     | 4.57      | ≤13       |
|          |              |                         |                      | 23.42                        | 28.67                     | 5.25      | ≤13       |
|          | 20175        | 1732.5                  |                      | 22.47                        | 27.17                     | 4.70      | ≤13       |
|          |              |                         |                      | 23.38                        | 28.88                     | 5.50      | ≤13       |
|          | 20300        | 1745                    |                      | 22.30                        | 26.88                     | 4.58      | ≤13       |
|          |              |                         |                      | 23.41                        | 28.64                     | 5.23      | ≤13       |

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| LTE Band | Channel no's | Channel Frequency (MHz) | Cell Bandwidth (MHz) | Average Measured Power (dBm) | Peak Measured Power (dBm) | PAPR (dB) | Limit(dB) |
|----------|--------------|-------------------------|----------------------|------------------------------|---------------------------|-----------|-----------|
|          |              |                         |                      | 16QAM                        | 16QAM                     |           |           |
| 4        | 19957        | 1710.7                  | 1.4                  | 20.82                        | 25.36                     | 4.54      | ≤13       |
|          |              |                         |                      | 19.53                        | 25.31                     | 5.78      | ≤13       |
|          | 20175        | 1732.5                  |                      | 20.17                        | 25.27                     | 5.10      | ≤13       |
|          |              |                         |                      | 19.41                        | 25.12                     | 5.71      | ≤13       |
|          | 20393        | 1754.3                  |                      | 20.98                        | 25.32                     | 4.34      | ≤13       |
|          |              |                         |                      | 19.91                        | 25.52                     | 5.61      | ≤13       |
|          | 19965        | 1711.5                  | 3                    | 22.78                        | 28.21                     | 5.43      | ≤13       |
|          |              |                         |                      | 24.03                        | 29.77                     | 5.74      | ≤13       |
|          | 20175        | 1732.5                  |                      | 22.95                        | 28.22                     | 5.27      | ≤13       |
|          |              |                         |                      | 23.85                        | 29.67                     | 5.82      | ≤13       |
|          | 20385        | 1753.5                  |                      | 22.86                        | 28.07                     | 5.21      | ≤13       |
|          |              |                         |                      | 24.04                        | 29.81                     | 5.77      | ≤13       |
|          | 19975        | 1712.5                  | 5                    | 22.95                        | 27.94                     | 4.99      | ≤13       |
|          |              |                         |                      | 23.44                        | 29.36                     | 5.92      | ≤13       |
|          | 20175        | 1732.5                  |                      | 22.88                        | 27.96                     | 5.08      | ≤13       |
|          |              |                         |                      | 23.46                        | 29.39                     | 5.93      | ≤13       |
|          | 20375        | 1752.5                  |                      | 22.65                        | 27.79                     | 5.14      | ≤13       |
|          |              |                         |                      | 23.50                        | 29.38                     | 5.88      | ≤13       |
|          | 20000        | 1715                    | 10                   | 22.75                        | 28.01                     | 5.26      | ≤13       |
|          |              |                         |                      | 23.76                        | 29.24                     | 5.48      | ≤13       |
|          | 20175        | 1732.5                  |                      | 23.10                        | 28.03                     | 4.93      | ≤13       |
|          |              |                         |                      | 22.71                        | 28.30                     | 5.59      | ≤13       |
|          | 20350        | 1750                    |                      | 22.48                        | 27.75                     | 5.27      | ≤13       |
|          |              |                         |                      | 23.63                        | 29.04                     | 5.41      | ≤13       |
|          | 20025        | 1717.5                  | 15                   | 22.86                        | 28.11                     | 5.25      | ≤13       |
|          |              |                         |                      | 23.73                        | 29.47                     | 5.74      | ≤13       |
|          | 20175        | 1732.5                  |                      | 23.10                        | 28.07                     | 4.97      | ≤13       |
|          |              |                         |                      | 23.43                        | 29.41                     | 5.98      | ≤13       |
|          | 20325        | 1747.5                  |                      | 22.56                        | 27.88                     | 5.32      | ≤13       |
|          |              |                         |                      | 23.62                        | 29.37                     | 5.75      | ≤13       |
|          | 20050        | 1720                    | 20                   | 22.88                        | 28.16                     | 5.28      | ≤13       |
|          |              |                         |                      | 23.65                        | 29.55                     | 5.90      | ≤13       |
|          | 20175        | 1732.5                  |                      | 23.16                        | 28.11                     | 4.95      | ≤13       |
|          |              |                         |                      | 23.52                        | 29.44                     | 5.92      | ≤13       |
|          | 20300        | 1745                    |                      | 22.58                        | 27.85                     | 5.27      | ≤13       |
|          |              |                         |                      | 23.60                        | 29.40                     | 5.80      | ≤13       |

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|----------|--------------|-------------------------|----------------------|-----------------------------------|--------------------------------|-----------|------------|
| 5        | 20407        | 824.7                   | 1.4                  | 22.40                             | 26.29                          | 3.89      | ≤13        |
|          |              |                         |                      | 20.53                             | 25.57                          | 5.04      | ≤13        |
|          | 20525        | 836.5                   |                      | 22.15                             | 26.10                          | 3.95      | ≤13        |
|          |              |                         |                      | 20.10                             | 25.20                          | 5.10      | ≤13        |
|          | 20643        | 848.3                   |                      | 22.58                             | 26.51                          | 3.93      | ≤13        |
|          |              |                         |                      | 20.47                             | 25.37                          | 4.90      | ≤13        |
|          | 20415        | 825.5                   | 3                    | 22.93                             | 27.45                          | 4.52      | ≤13        |
|          |              |                         |                      | 23.71                             | 29.00                          | 5.29      | ≤13        |
|          | 20525        | 836.5                   |                      | 22.66                             | 27.26                          | 4.60      | ≤13        |
|          |              |                         |                      | 23.53                             | 28.80                          | 5.27      | ≤13        |
|          | 20635        | 847.5                   |                      | 22.72                             | 27.29                          | 4.57      | ≤13        |
|          |              |                         |                      | 23.99                             | 29.17                          | 5.18      | ≤13        |
|          | 20425        | 826.5                   | 5                    | 23.03                             | 27.48                          | 4.45      | ≤13        |
|          |              |                         |                      | 23.69                             | 28.90                          | 5.21      | ≤13        |
|          | 20525        | 836.5                   |                      | 22.89                             | 27.38                          | 4.49      | ≤13        |
|          |              |                         |                      | 23.47                             | 28.76                          | 5.29      | ≤13        |
|          | 20625        | 846.5                   |                      | 22.96                             | 27.12                          | 4.16      | ≤13        |
|          |              |                         |                      | 24.03                             | 29.28                          | 5.25      | ≤13        |
|          | 20450        | 829                     | 10                   | 22.77                             | 27.20                          | 4.43      | ≤13        |
|          |              |                         |                      | 23.41                             | 28.45                          | 5.04      | ≤13        |
|          | 20525        | 836.5                   |                      | 22.83                             | 27.05                          | 4.22      | ≤13        |
|          |              |                         |                      | 23.77                             | 28.61                          | 4.84      | ≤13        |
|          | 20600        | 844                     |                      | 22.92                             | 27.43                          | 4.51      | ≤13        |
|          |              |                         |                      | 23.95                             | 28.83                          | 4.88      | ≤13        |

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| LTE Band | Channel no's | Channel Frequency (MHz) | Cell Bandwidth (MHz) | Average Measured Power (dBm) 16QAM | Peak Measured Power (dBm) 16QAM | PAPR (dB) | Limit (dB) |
|----------|--------------|-------------------------|----------------------|------------------------------------|---------------------------------|-----------|------------|
| 5        | 20407        | 824.7                   | 1.4                  | 21.44                              | 26.16                           | 4.72      | ≤13        |
|          |              |                         |                      | 20.32                              | 25.87                           | 5.55      | ≤13        |
|          | 20525        | 836.5                   |                      | 21.60                              | 26.06                           | 4.46      | ≤13        |
|          |              |                         |                      | 20.22                              | 25.76                           | 5.54      | ≤13        |
|          | 20643        | 848.3                   |                      | 21.76                              | 26.53                           | 4.77      | ≤13        |
|          |              |                         | 3                    | 20.64                              | 26.05                           | 5.41      | ≤13        |
|          | 20415        | 825.5                   |                      | 22.88                              | 28.31                           | 5.43      | ≤13        |
|          |              |                         |                      | 24.05                              | 29.82                           | 5.77      | ≤13        |
|          | 20525        | 836.5                   |                      | 22.74                              | 28.21                           | 5.47      | ≤13        |
|          |              |                         |                      | 23.75                              | 29.70                           | 5.95      | ≤13        |
|          | 20635        | 847.5                   |                      | 22.96                              | 28.31                           | 5.35      | ≤13        |
|          |              |                         | 5                    | 24.01                              | 20.02                           | -3.99     | ≤13        |
|          | 20425        | 826.5                   |                      | 22.86                              | 28.23                           | 5.37      | ≤13        |
|          |              |                         |                      | 23.92                              | 29.64                           | 5.72      | ≤13        |
|          | 20525        | 836.5                   |                      | 23.23                              | 28.13                           | 4.90      | ≤13        |
|          |              |                         |                      | 23.83                              | 29.69                           | 5.86      | ≤13        |
|          | 20625        | 846.5                   |                      | 22.13                              | 27.44                           | 5.31      | ≤13        |
|          |              |                         | 10                   | 23.34                              | 29.21                           | 5.87      | ≤13        |
|          | 20450        | 829                     |                      | 23.16                              | 28.34                           | 5.18      | ≤13        |
|          |              |                         |                      | 24.16                              | 29.42                           | 5.26      | ≤13        |
|          | 20525        | 836.5                   |                      | 23.52                              | 28.40                           | 4.88      | ≤13        |
|          |              |                         |                      | 24.05                              | 29.35                           | 5.30      | ≤13        |
|          | 20600        | 844                     |                      | 23.24                              | 28.40                           | 5.16      | ≤13        |
|          |              |                         |                      | 23.38                              | 28.77                           | 5.39      | ≤13        |

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| LTE Band | Channel no's | Channel Frequency (MHz) | Cell Bandwidth (MHz) | Average Measured Power (dBm) | Peak Measured Power (dBm) | PAPR (dB) | Limit (dB) |
|----------|--------------|-------------------------|----------------------|------------------------------|---------------------------|-----------|------------|
|          |              |                         |                      | QPSK                         | QPSK                      |           |            |
| 12       | 23017        | 699.7                   | 1.4                  | 22.16                        | 26.25                     | 4.09      | ≤13        |
|          |              |                         |                      | 20.12                        | 24.85                     | 4.73      | ≤13        |
|          | 23095        | 707.5                   |                      | 22.08                        | 26.19                     | 4.11      | ≤13        |
|          |              |                         |                      | 19.82                        | 24.92                     | 5.10      | ≤13        |
|          | 23173        | 715.3                   |                      | 22.10                        | 26.24                     | 4.14      | ≤13        |
|          |              |                         |                      | 19.98                        | 25.02                     | 5.04      | ≤13        |
|          | 23025        | 700.5                   | 3                    | 23.35                        | 27.73                     | 4.38      | ≤13        |
|          |              |                         |                      | 23.17                        | 28.29                     | 5.12      | ≤13        |
|          | 23095        | 707.5                   |                      | 23.29                        | 27.61                     | 4.32      | ≤13        |
|          |              |                         |                      | 23.20                        | 28.36                     | 5.16      | ≤13        |
|          | 23165        | 714.5                   |                      | 22.53                        | 26.95                     | 4.42      | ≤13        |
|          |              |                         |                      | 23.66                        | 28.84                     | 5.18      | ≤13        |
|          | 23035        | 701.5                   | 5                    | 22.45                        | 26.87                     | 4.42      | ≤13        |
|          |              |                         |                      | 23.34                        | 28.46                     | 5.12      | ≤13        |
|          | 23095        | 707.5                   |                      | 22.45                        | 26.70                     | 4.25      | ≤13        |
|          |              |                         |                      | 23.30                        | 28.57                     | 5.27      | ≤13        |
|          | 23155        | 713.5                   |                      | 22.71                        | 27.08                     | 4.37      | ≤13        |
|          |              |                         |                      | 23.81                        | 28.85                     | 5.04      | ≤13        |
|          | 23060        | 704                     | 10                   | 22.80                        | 27.96                     | 5.16      | ≤13        |
|          |              |                         |                      | 23.80                        | 29.14                     | 5.34      | ≤13        |
|          | 23095        | 707.5                   |                      | 22.62                        | 26.73                     | 4.11      | ≤13        |
|          |              |                         |                      | 23.63                        | 28.44                     | 4.81      | ≤13        |
|          | 23130        | 711                     |                      | 22.61                        | 27.00                     | 4.39      | ≤13        |
|          |              |                         |                      | 23.71                        | 28.50                     | 4.79      | ≤13        |

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| LTE Band | Channel no's | Channel Frequency (MHz) | Cell Bandwidth (MHz) | Average Measured Power (dBm) | Peak Measured Power (dBm) | PAPR (dB) | Limit (dB) |
|----------|--------------|-------------------------|----------------------|------------------------------|---------------------------|-----------|------------|
|          |              |                         |                      | 16QAM                        | 16QAM                     |           |            |
| 12       | 23017        | 699.7                   | 1.4                  | 21.79                        | 26.38                     | 4.59      | ≤13        |
|          |              |                         |                      | 19.86                        | 25.66                     | 5.80      | ≤13        |
|          | 23095        | 707.5                   |                      | 20.78                        | 25.73                     | 4.95      | ≤13        |
|          |              |                         |                      | 19.83                        | 25.54                     | 5.71      | ≤13        |
|          | 23173        | 715.3                   |                      | 21.26                        | 25.85                     | 4.59      | ≤13        |
|          |              |                         |                      | 19.90                        | 25.59                     | 5.69      | ≤13        |
|          | 23025        | 700.5                   | 3                    | 23.15                        | 29.61                     | 6.46      | ≤13        |
|          |              |                         |                      | 23.36                        | 29.22                     | 5.86      | ≤13        |
|          | 23095        | 707.5                   |                      | 23.58                        | 28.68                     | 5.10      | ≤13        |
|          |              |                         |                      | 24.19                        | 29.13                     | 4.94      | ≤13        |
|          | 23165        | 714.5                   |                      | 22.30                        | 27.82                     | 5.52      | ≤13        |
|          |              |                         |                      | 23.82                        | 29.59                     | 5.77      | ≤13        |
|          | 23035        | 701.5                   | 5                    | 23.11                        | 27.71                     | 4.60      | ≤13        |
|          |              |                         |                      | 23.44                        | 29.25                     | 5.81      | ≤13        |
|          | 23095        | 707.5                   |                      | 22.91                        | 27.89                     | 4.98      | ≤13        |
|          |              |                         |                      | 23.52                        | 29.27                     | 5.75      | ≤13        |
|          | 23155        | 713.5                   |                      | 22.51                        | 27.85                     | 5.34      | ≤13        |
|          |              |                         |                      | 23.90                        | 29.53                     | 5.63      | ≤13        |
|          | 23060        | 704                     | 10                   | 22.68                        | 27.82                     | 5.14      | ≤13        |
|          |              |                         |                      | 23.68                        | 29.03                     | 5.35      | ≤13        |
|          | 23095        | 707.5                   |                      | 23.14                        | 27.93                     | 4.79      | ≤13        |
|          |              |                         |                      | 23.77                        | 29.15                     | 5.38      | ≤13        |
|          | 23130        | 711                     |                      | 22.74                        | 27.88                     | 5.14      | ≤13        |
|          |              |                         |                      | 23.89                        | 29.17                     | 5.28      | ≤13        |

| LTE Band | Channel no's | Channel Frequency (MHz) | Cell Bandwidth (MHz) | Average Measured Power (dBm) | Peak Measured Power (dBm) | PAPR (dB) | Limit (dB) |
|----------|--------------|-------------------------|----------------------|------------------------------|---------------------------|-----------|------------|
|          |              |                         |                      | QPSK                         | QPSK                      |           |            |
| 13       | 23025        | 779.5                   | 5                    | 22.53                        | 26.51                     | 3.98      | ≤13        |
|          |              |                         |                      | 23.22                        | 28.10                     | 4.88      | ≤13        |
|          | 23230        | 782                     |                      | 22.57                        | 26.63                     | 4.06      | ≤13        |
|          |              |                         |                      | 23.25                        | 28.09                     | 4.84      | ≤13        |
|          | 23255        | 784.5                   |                      | 23.07                        | 27.21                     | 4.14      | ≤13        |
|          |              |                         |                      | 23.29                        | 28.40                     | 5.11      | ≤13        |
|          | 23230        | 782                     | 10                   | 22.52                        | 26.76                     | 4.24      | ≤13        |
|          |              |                         |                      | 23.41                        | 27.86                     | 4.45      | ≤13        |

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| LTE Band | Channel no's | Channel Frequency (MHz) | Cell Bandwidth (MHz) | Average Measured Power (dBm) | Peak Measured Power (dBm) | PAPR (dB) | Limit (dB) |
|----------|--------------|-------------------------|----------------------|------------------------------|---------------------------|-----------|------------|
|          |              |                         |                      | 16QAM                        | 16QAM                     |           |            |
| 13       | 23025        | 779.5                   | 5                    | 23.07                        | 27.78                     | 4.71      | ≤13        |
|          |              |                         |                      | 23.62                        | 29.18                     | 5.56      | ≤13        |
|          | 23230        | 782                     |                      | 23.15                        | 27.72                     | 4.57      | ≤13        |
|          |              |                         |                      | 23.60                        | 29.16                     | 5.56      | ≤13        |
|          | 23255        | 784.5                   |                      | 22.42                        | 27.56                     | 5.14      | ≤13        |
|          |              |                         |                      | 23.63                        | 29.04                     | 5.41      | ≤13        |
|          | 23230        | 782                     | 10                   | 23.05                        | 27.42                     | 4.37      | ≤13        |
|          |              |                         |                      | 23.52                        | 28.77                     | 5.25      | ≤13        |

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| LTE Band | Channel no's | Channel Frequency (MHz) | Cell Bandwidth (MHz) | Average Measured Power (dBm) | Peak Measured Power (dBm) | PAPR (dB) | Limit (dB) |
|----------|--------------|-------------------------|----------------------|------------------------------|---------------------------|-----------|------------|
|          |              |                         |                      | QPSK                         | QPSK                      |           |            |
| 25       | 26047        | 1850.7                  | 1.4                  | 21.82                        | 25.30                     | 3.48      | ≤13        |
|          |              |                         |                      | 19.65                        | 24.57                     | 4.92      | ≤13        |
|          | 26365        | 1882.5                  |                      | 21.64                        | 25.18                     | 3.54      | ≤13        |
|          |              |                         |                      | 19.46                        | 24.48                     | 5.02      | ≤13        |
|          | 26683        | 1914.3                  |                      | 21.68                        | 25.07                     | 3.39      | ≤13        |
|          |              |                         |                      | 19.38                        | 24.30                     | 4.92      | ≤13        |
|          | 26055        | 1851.5                  | 3                    | 22.58                        | 26.95                     | 4.37      | ≤13        |
|          |              |                         |                      | 23.39                        | 28.45                     | 5.06      | ≤13        |
|          | 26365        | 1882.5                  |                      | 23.20                        | 27.74                     | 4.54      | ≤13        |
|          |              |                         |                      | 23.39                        | 28.53                     | 5.14      | ≤13        |
|          | 26675        | 1913.5                  |                      | 22.99                        | 27.43                     | 4.44      | ≤13        |
|          |              |                         |                      | 23.25                        | 28.20                     | 4.95      | ≤13        |
|          | 26065        | 1852.5                  | 5                    | 22.27                        | 26.65                     | 4.38      | ≤13        |
|          |              |                         |                      | 23.57                        | 28.45                     | 4.88      | ≤13        |
|          | 26365        | 1882.5                  |                      | 23.16                        | 27.51                     | 4.35      | ≤13        |
|          |              |                         |                      | 23.92                        | 28.99                     | 5.07      | ≤13        |
|          | 26665        | 1912.5                  |                      | 22.80                        | 27.23                     | 4.43      | ≤13        |
|          |              |                         |                      | 23.96                        | 29.04                     | 5.08      | ≤13        |
|          | 26090        | 1855                    | 10                   | 23.21                        | 27.57                     | 4.36      | ≤13        |
|          |              |                         |                      | 24.14                        | 28.94                     | 4.80      | ≤13        |
|          | 26365        | 1882.5                  |                      | 23.02                        | 27.07                     | 4.05      | ≤13        |
|          |              |                         |                      | 23.98                        | 28.70                     | 4.72      | ≤13        |
|          | 26640        | 1910                    |                      | 22.77                        | 27.19                     | 4.42      | ≤13        |
|          |              |                         |                      | 23.81                        | 28.54                     | 4.73      | ≤13        |
|          | 26115        | 1857.5                  | 15                   | 23.22                        | 27.61                     | 4.39      | ≤13        |
|          |              |                         |                      | 24.03                        | 29.15                     | 5.12      | ≤13        |
|          | 26365        | 1882.5                  |                      | 23.11                        | 27.14                     | 4.03      | ≤13        |
|          |              |                         |                      | 23.99                        | 29.01                     | 5.02      | ≤13        |
|          | 26615        | 1907.5                  |                      | 22.8                         | 27.19                     | 4.39      | ≤13        |
|          |              |                         |                      | 23.72                        | 28.82                     | 5.10      | ≤13        |
|          | 26140        | 1860                    | 20                   | 23.17                        | 27.56                     | 4.39      | ≤13        |
|          |              |                         |                      | 24.07                        | 29.09                     | 5.02      | ≤13        |
|          | 26365        | 1882.5                  |                      | 23.05                        | 27.15                     | 4.10      | ≤13        |
|          |              |                         |                      | 23.9                         | 28.99                     | 5.09      | ≤13        |
|          | 26590        | 1905                    |                      | 22.68                        | 27.13                     | 4.45      | ≤13        |
|          |              |                         |                      | 23.84                        | 28.85                     | 5.01      | ≤13        |

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| LTE Band | Channel no's | Channel Frequency (MHz) | Cell Bandwidth (MHz) | Average Measured Power (dBm) | Peak Measured Power (dBm) | PAPR (dB) | Limit (dB) |
|----------|--------------|-------------------------|----------------------|------------------------------|---------------------------|-----------|------------|
|          |              |                         |                      | 16QAM                        | 16QAM                     |           |            |
| 25       | 26047        | 1850.7                  | 1.4                  | 20.58                        | 25.08                     | 4.50      | ≤13        |
|          |              |                         |                      | 19.79                        | 25.21                     | 5.42      | ≤13        |
|          | 26365        | 1882.5                  |                      | 20.32                        | 24.90                     | 4.58      | ≤13        |
|          |              |                         |                      | 19.37                        | 24.90                     | 5.53      | ≤13        |
|          | 26683        | 1914.3                  |                      | 20.26                        | 24.79                     | 4.53      | ≤13        |
|          |              |                         |                      | 19.42                        | 24.78                     | 5.36      | ≤13        |
|          | 26055        | 1851.5                  | 3                    | 22.37                        | 27.69                     | 5.32      | ≤13        |
|          |              |                         |                      | 23.60                        | 29.22                     | 5.62      | ≤13        |
|          | 26365        | 1882.5                  |                      | 23.63                        | 28.56                     | 4.93      | ≤13        |
|          |              |                         |                      | 23.37                        | 29.10                     | 5.73      | ≤13        |
|          | 26675        | 1913.5                  |                      | 23.41                        | 28.40                     | 4.99      | ≤13        |
|          |              |                         |                      | 23.25                        | 28.97                     | 5.72      | ≤13        |
|          | 26065        | 1852.5                  | 5                    | 23.05                        | 28.37                     | 5.32      | ≤13        |
|          |              |                         |                      | 23.65                        | 29.36                     | 5.71      | ≤13        |
|          | 26365        | 1882.5                  |                      | 23.13                        | 28.29                     | 5.16      | ≤13        |
|          |              |                         |                      | 23.92                        | 29.44                     | 5.52      | ≤13        |
|          | 26665        | 1912.5                  |                      | 22.94                        | 27.97                     | 5.03      | ≤13        |
|          |              |                         |                      | 23.81                        | 29.30                     | 5.49      | ≤13        |
|          | 26090        | 1855                    | 10                   | 22.47                        | 27.66                     | 5.19      | ≤13        |
|          |              |                         |                      | 23.50                        | 28.84                     | 5.34      | ≤13        |
|          | 26365        | 1882.5                  |                      | 23.68                        | 28.40                     | 4.72      | ≤13        |
|          |              |                         |                      | 23.29                        | 28.95                     | 5.66      | ≤13        |
|          | 26640        | 1910                    |                      | 23.09                        | 28.10                     | 5.01      | ≤13        |
|          |              |                         |                      | 24.33                        | 29.25                     | 4.92      | ≤13        |
|          | 26115        | 1857.5                  | 15                   | 23.46                        | 28.52                     | 5.06      | ≤13        |
|          |              |                         |                      | 23.31                        | 29.02                     | 5.71      | ≤13        |
|          | 26365        | 1882.5                  |                      | 23.58                        | 28.42                     | 4.84      | ≤13        |
|          |              |                         |                      | 23.08                        | 28.86                     | 5.78      | ≤13        |
|          | 26615        | 1907.5                  |                      | 23.05                        | 28.17                     | 5.12      | ≤13        |
|          |              |                         |                      | 24.14                        | 29.42                     | 5.28      | ≤13        |
|          | 26140        | 1860                    | 20                   | 23.5                         | 28.48                     | 4.98      | ≤13        |
|          |              |                         |                      | 23.16                        | 29.01                     | 5.85      | ≤13        |
|          | 26365        | 1882.5                  |                      | 23.39                        | 28.4                      | 5.01      | ≤13        |
|          |              |                         |                      | 24.17                        | 29.61                     | 5.44      | ≤13        |
|          | 26590        | 1905                    |                      | 23.03                        | 28.13                     | 5.10      | ≤13        |
|          |              |                         |                      | 24.17                        | 29.43                     | 5.26      | ≤13        |

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| LTE Band | Channel no's | Channel Frequency (MHz) | Cell Bandwidth (MHz) | Average Measured Power (dBm) QPSK | Peak Measured Power (dBm) QPSK | PAPR (dB) | Limit (dB) |
|----------|--------------|-------------------------|----------------------|-----------------------------------|--------------------------------|-----------|------------|
| 26       | 26797        | 814.7                   | 1.4                  | 22.98                             | 26.71                          | 3.73      | ≤13        |
|          |              |                         |                      | 20.86                             | 25.43                          | 4.57      | ≤13        |
|          | 26915        | 831.4                   |                      | 22.51                             | 26.31                          | 3.80      | ≤13        |
|          |              |                         |                      | 20.40                             | 25.10                          | 4.70      | ≤13        |
|          | 27033        | 848.2                   |                      | 23.05                             | 26.82                          | 3.77      | ≤13        |
|          |              |                         |                      | 21.19                             | 25.89                          | 4.70      | ≤13        |
|          | 26805        | 815.5                   | 3                    | 23.18                             | 27.63                          | 4.45      | ≤13        |
|          |              |                         |                      | 24.10                             | 29.05                          | 4.95      | ≤13        |
|          | 26915        | 831.4                   |                      | 23.09                             | 27.35                          | 4.26      | ≤13        |
|          |              |                         |                      | 23.60                             | 28.78                          | 5.18      | ≤13        |
|          | 27025        | 847.4                   |                      | 23.05                             | 27.33                          | 4.28      | ≤13        |
|          |              |                         |                      | 23.97                             | 29.16                          | 5.19      | ≤13        |
|          | 26815        | 816.5                   | 5                    | 23.20                             | 27.55                          | 4.35      | ≤13        |
|          |              |                         |                      | 23.74                             | 28.91                          | 5.17      | ≤13        |
|          | 26915        | 831.4                   |                      | 23.02                             | 27.39                          | 4.37      | ≤13        |
|          |              |                         |                      | 23.53                             | 28.49                          | 4.96      | ≤13        |
|          | 27015        | 846.5                   |                      | 22.93                             | 27.36                          | 4.43      | ≤13        |
|          |              |                         |                      | 23.82                             | 29.15                          | 5.33      | ≤13        |
|          | 26840        | 819                     | 10                   | 22.67                             | 26.20                          | 3.53      | ≤13        |
|          |              |                         |                      | 22.58                             | 26.76                          | 4.18      | ≤13        |
|          | 26915        | 831.4                   |                      | 22.37                             | 25.98                          | 3.61      | ≤13        |
|          |              |                         |                      | 22.56                             | 26.80                          | 4.24      | ≤13        |
|          | 26990        | 843.9                   |                      | 22.40                             | 26.28                          | 3.88      | ≤13        |
|          |              |                         |                      | 22.34                             | 27.39                          | 5.05      | ≤13        |
|          | 26765        | 821.5                   | 15                   | 22.72                             | 26.39                          | 3.67      | ≤13        |
|          |              |                         |                      | 22.59                             | 28.94                          | 6.35      | ≤13        |
|          | 26915        | 831.4                   |                      | 22.93                             | 27.30                          | 4.37      | ≤13        |
|          |              |                         |                      | 23.68                             | 29.13                          | 5.45      | ≤13        |
|          | 26965        | 841.4                   |                      | 22.46                             | 26.85                          | 4.39      | ≤13        |
|          |              |                         |                      | 23.56                             | 28.89                          | 5.33      | ≤13        |

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| LTE Band | Channel no's | Channel Frequency (MHz) | Cell Bandwidth (MHz) | Average Measured Power (dBm) 16QAM | Peak Measured Power (dBm) 16QAM | PAPR (dB) | Limit (dB) |
|----------|--------------|-------------------------|----------------------|------------------------------------|---------------------------------|-----------|------------|
| 26       | 26797        | 814.7                   | 1.4                  | 22.43                              | 26.72                           | 4.29      | ≤13        |
|          |              |                         |                      | 20.70                              | 25.89                           | 5.19      | ≤13        |
|          | 26915        | 831.4                   |                      | 21.66                              | 26.26                           | 4.60      | ≤13        |
|          |              |                         |                      | 20.39                              | 25.75                           | 5.36      | ≤13        |
|          | 27033        | 848.2                   |                      | 22.39                              | 26.55                           | 4.16      | ≤13        |
|          |              |                         |                      | 21.20                              | 26.55                           | 5.35      | ≤13        |
|          | 26805        | 815.5                   | 3                    | 23.28                              | 28.24                           | 4.96      | ≤13        |
|          |              |                         |                      | 23.17                              | 28.89                           | 5.72      | ≤13        |
|          | 26915        | 831.4                   |                      | 23.21                              | 28.23                           | 5.02      | ≤13        |
|          |              |                         |                      | 23.72                              | 29.51                           | 5.79      | ≤13        |
|          | 27025        | 847.4                   |                      | 22.72                              | 27.90                           | 5.18      | ≤13        |
|          |              |                         |                      | 23.09                              | 28.87                           | 5.78      | ≤13        |
|          | 26815        | 816.5                   | 5                    | 23.55                              | 28.57                           | 5.02      | ≤13        |
|          |              |                         |                      | 23.35                              | 29.01                           | 5.66      | ≤13        |
|          | 26915        | 831.4                   |                      | 23.32                              | 28.23                           | 4.91      | ≤13        |
|          |              |                         |                      | 23.70                              | 29.43                           | 5.73      | ≤13        |
|          | 27015        | 846.5                   |                      | 23.11                              | 28.28                           | 5.17      | ≤13        |
|          |              |                         |                      | 23.36                              | 29.07                           | 5.71      | ≤13        |
|          | 26840        | 819                     | 10                   | 22.98                              | 27.01                           | 4.03      | ≤13        |
|          |              |                         |                      | 21.76                              | 26.65                           | 4.89      | ≤13        |
|          | 26915        | 831.4                   |                      | 22.65                              | 26.83                           | 4.18      | ≤13        |
|          |              |                         |                      | 21.55                              | 26.51                           | 4.96      | ≤13        |
|          | 26990        | 843.9                   |                      | 22.80                              | 27.20                           | 4.40      | ≤13        |
|          |              |                         |                      | 22.21                              | 27.02                           | 4.81      | ≤13        |
|          | 26765        | 821.5                   | 15                   | 23.45                              | 28.59                           | 5.14      | ≤13        |
|          |              |                         |                      | 22.38                              | 27.97                           | 5.59      | ≤13        |
|          | 26915        | 831.4                   |                      | 23.20                              | 28.28                           | 5.08      | ≤13        |
|          |              |                         |                      | 24.04                              | 29.71                           | 5.67      | ≤13        |
|          | 26965        | 841.4                   |                      | 22.98                              | 27.88                           | 4.90      | ≤13        |
|          |              |                         |                      | 23.77                              | 29.48                           | 5.71      | ≤13        |

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| LTE Band | Channel no's | Channel Frequency (MHz) | Cell Bandwidth (MHz) | Average Measured Power (dBm) | Peak Measured Power (dBm) | PAPR (dB) | Limit (dB) |
|----------|--------------|-------------------------|----------------------|------------------------------|---------------------------|-----------|------------|
|          |              |                         |                      | QPSK                         | QPSK                      |           |            |
| 66       | 131979       | 1710.7                  | 1.4                  | 21.96                        | 25.70                     | 3.74      | ≤13        |
|          |              |                         |                      | 19.76                        | 24.78                     | 5.02      | ≤13        |
|          | 132322       | 1745                    |                      | 21.72                        | 25.60                     | 3.88      | ≤13        |
|          |              |                         |                      | 19.60                        | 24.78                     | 5.18      | ≤13        |
|          | 132665       | 1770.3                  |                      | 21.20                        | 25.22                     | 4.02      | ≤13        |
|          |              |                         |                      | 19.31                        | 24.27                     | 4.96      | ≤13        |
|          | 131987       | 1711.5                  | 3                    | 23.27                        | 27.92                     | 4.65      | ≤13        |
|          |              |                         |                      | 23.30                        | 28.39                     | 5.09      | ≤13        |
|          | 132322       | 1745                    |                      | 24.08                        | 29.10                     | 5.02      | ≤13        |
|          |              |                         |                      | 23.44                        | 27.94                     | 4.50      | ≤13        |
|          | 132657       | 1778.5                  |                      | 23.32                        | 27.99                     | 4.67      | ≤13        |
|          |              |                         |                      | 24.01                        | 27.88                     | 3.87      | ≤13        |
|          | 131997       | 1712.5                  | 5                    | 23.49                        | 28.00                     | 4.51      | ≤13        |
|          |              |                         |                      | 23.26                        | 28.34                     | 5.08      | ≤13        |
|          | 132322       | 1745                    |                      | 23.44                        | 27.94                     | 4.50      | ≤13        |
|          |              |                         |                      | 23.32                        | 28.34                     | 5.02      | ≤13        |
|          | 132647       | 1777.5                  |                      | 23.04                        | 27.60                     | 4.56      | ≤13        |
|          |              |                         |                      | 23.22                        | 28.38                     | 5.16      | ≤13        |
|          | 132022       | 1715                    | 10                   | 22.15                        | 25.79                     | 3.64      | ≤13        |
|          |              |                         |                      | 22.03                        | 25.90                     | 3.87      | ≤13        |
|          | 132322       | 1745                    |                      | 21.83                        | 25.46                     | 3.63      | ≤13        |
|          |              |                         |                      | 21.80                        | 25.80                     | 4.00      | ≤13        |
|          | 132622       | 1775                    |                      | 22.08                        | 25.65                     | 3.57      | ≤13        |
|          |              |                         |                      | 21.83                        | 25.74                     | 3.91      | ≤13        |
|          | 132047       | 1717.5                  | 15                   | 23.45                        | 27.99                     | 4.54      | ≤13        |
|          |              |                         |                      | 23.36                        | 28.61                     | 5.25      | ≤13        |
|          | 132322       | 1745                    |                      | 22.38                        | 26.98                     | 4.60      | ≤13        |
|          |              |                         |                      | 23.25                        | 28.61                     | 5.36      | ≤13        |
|          | 132597       | 1772.5                  |                      | 23.11                        | 27.63                     | 4.52      | ≤13        |
|          |              |                         |                      | 23.19                        | 28.51                     | 5.32      | ≤13        |
|          | 132072       | 1720                    | 20                   | 23.34                        | 27.96                     | 4.62      | ≤13        |
|          |              |                         |                      | 23.35                        | 28.76                     | 5.41      | ≤13        |
|          | 132322       | 1745                    |                      | 23.38                        | 28.03                     | 4.65      | ≤13        |
|          |              |                         |                      | 23.31                        | 28.78                     | 5.47      | ≤13        |
|          | 132572       | 1770                    |                      | 22.91                        | 27.63                     | 4.72      | ≤13        |
|          |              |                         |                      | 23.13                        | 28.32                     | 5.19      | ≤13        |

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| LTE Band | Channel no's | Channel Frequency (MHz) | Cell Bandwidth (MHz) | Average Measured Power (dBm) | Peak Measured Power (dBm) | PAPR (dB) | Limit (dB) |
|----------|--------------|-------------------------|----------------------|------------------------------|---------------------------|-----------|------------|
|          |              |                         |                      | 16QAM                        | 16QAM                     |           |            |
| 66       | 131979       | 1710.7                  | 1.4                  | 19.82                        | 24.78                     | 4.96      | ≤13        |
|          |              |                         |                      | 19.92                        | 25.39                     | 5.47      | ≤13        |
|          | 132322       | 1745                    |                      | 20.78                        | 25.34                     | 4.56      | ≤13        |
|          |              |                         |                      | 19.49                        | 25.20                     | 5.71      | ≤13        |
|          | 132665       | 1770.3                  |                      | 20.54                        | 25.23                     | 4.69      | ≤13        |
|          |              |                         |                      | 19.39                        | 24.79                     | 5.40      | ≤13        |
|          | 131987       | 1711.5                  | 3                    | 23.58                        | 28.68                     | 5.10      | ≤13        |
|          |              |                         |                      | 23.46                        | 29.23                     | 5.77      | ≤13        |
|          | 132322       | 1745                    |                      | 22.33                        | 27.80                     | 5.47      | ≤13        |
|          |              |                         |                      | 22.70                        | 28.55                     | 5.85      | ≤13        |
|          | 132657       | 1778.5                  |                      | 22.95                        | 28.19                     | 5.24      | ≤13        |
|          |              |                         |                      | 23.71                        | 29.66                     | 5.95      | ≤13        |
|          | 131997       | 1712.5                  | 5                    | 22.68                        | 28.00                     | 5.32      | ≤13        |
|          |              |                         |                      | 23.54                        | 29.36                     | 5.82      | ≤13        |
|          | 132322       | 1745                    |                      | 22.78                        | 28.46                     | 5.68      | ≤13        |
|          |              |                         |                      | 23.87                        | 29.69                     | 5.82      | ≤13        |
|          | 132647       | 1777.5                  |                      | 23.15                        | 28.45                     | 5.30      | ≤13        |
|          |              |                         |                      | 23.27                        | 29.26                     | 5.99      | ≤13        |
|          | 132022       | 1715                    | 10                   | 22.10                        | 25.91                     | 3.81      | ≤13        |
|          |              |                         |                      | 21.03                        | 25.77                     | 4.74      | ≤13        |
|          | 132322       | 1745                    |                      | 21.65                        | 25.71                     | 4.06      | ≤13        |
|          |              |                         |                      | 20.77                        | 25.70                     | 4.93      | ≤13        |
|          | 132622       | 1775                    |                      | 22.05                        | 25.76                     | 3.71      | ≤13        |
|          |              |                         |                      | 20.98                        | 25.68                     | 4.70      | ≤13        |
|          | 132047       | 1717.5                  | 15                   | 22.98                        | 27.98                     | 5.00      | ≤13        |
|          |              |                         |                      | 23.02                        | 28                        | 4.98      | ≤13        |
|          | 132322       | 1745                    |                      | 22.74                        | 27.97                     | 5.23      | ≤13        |
|          |              |                         |                      | 23.64                        | 28.01                     | 4.37      | ≤13        |
|          | 132597       | 1772.5                  |                      | 22.65                        | 27.97                     | 5.32      | ≤13        |
|          |              |                         |                      | 23.45                        | 29.28                     | 5.83      | ≤13        |
|          | 132072       | 1720                    | 20                   | 23.7                         | 28.97                     | 5.27      | ≤13        |
|          |              |                         |                      | 23.53                        | 29.48                     | 5.95      | ≤13        |
|          | 132322       | 1745                    |                      | 22.92                        | 28.09                     | 5.17      | ≤13        |
|          |              |                         |                      | 23.49                        | 29.43                     | 5.94      | ≤13        |
|          | 132572       | 1770                    |                      | 23.71                        | 28.58                     | 4.87      | ≤13        |
|          |              |                         |                      | 23.42                        | 29.29                     | 5.87      | ≤13        |

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| LTE Band | Channel no's | Channel Frequency (MHz) | Cell Bandwidth (MHz) | Average Measured Power (dBm) | Peak Measured Power (dBm) | PAPR (dB) | Limit (dB) |
|----------|--------------|-------------------------|----------------------|------------------------------|---------------------------|-----------|------------|
|          |              |                         |                      | QPSK                         | QPSK                      |           |            |
| 85       | 134027       | 700.5                   | 5                    | 22.67                        | 27.72                     | 5.05      | ≤13        |
|          |              |                         |                      | 23.50                        | 29.17                     | 5.67      | ≤13        |
|          | 134092       | 707                     |                      | 22.79                        | 27.66                     | 4.87      | ≤13        |
|          |              |                         |                      | 23.57                        | 29.15                     | 5.58      | ≤13        |
|          | 134157       | 713.5                   |                      | 22.83                        | 27.60                     | 4.77      | ≤13        |
|          |              |                         |                      | 23.61                        | 29.28                     | 5.67      | ≤13        |
|          | 134052       | 703                     | 10                   | 22.48                        | 26.70                     | 4.22      | ≤13        |
|          |              |                         |                      | 22.34                        | 27.83                     | 5.49      | ≤13        |
|          | 134092       | 707                     |                      | 23.49                        | 27.71                     | 4.22      | ≤13        |
|          |              |                         |                      | 22.45                        | 26.95                     | 4.50      | ≤13        |
|          | 134132       | 711                     |                      | 23.46                        | 27.66                     | 4.20      | ≤13        |
|          |              |                         |                      | 22.58                        | 27.21                     | 4.63      | ≤13        |

| LTE Band | Channel no's | Channel Frequency (MHz) | Cell Bandwidth (MHz) | Average Measured Power (dBm) | Peak Measured Power (dBm) | PAPR (dB) | Limit (dB) |  |
|----------|--------------|-------------------------|----------------------|------------------------------|---------------------------|-----------|------------|--|
|          |              |                         |                      | 16QAM                        | 16QAM                     |           |            |  |
| 85       | 134027       | 700.5                   | 5                    | 22.61                        | 27.63                     | 5.02      | ≤13        |  |
|          |              |                         |                      | 23.38                        | 29.09                     | 5.71      | ≤13        |  |
|          | 134092       | 707                     |                      | 22.64                        | 27.70                     | 5.06      | ≤13        |  |
|          |              |                         |                      | 23.18                        | 29.10                     | 5.92      | ≤13        |  |
|          | 134157       | 713.5                   |                      | 22.96                        | 27.76                     | 4.80      | ≤13        |  |
|          |              |                         |                      | 23.51                        | 29.32                     | 5.81      | ≤13        |  |
|          | 134052       | 703                     | 10                   | 23.03                        | 27.62                     | 4.59      | ≤13        |  |
|          |              |                         |                      | 22.53                        | 27.83                     | 5.30      | ≤13        |  |
|          | 134092       | 707                     |                      | 23.11                        | 27.71                     | 4.60      | ≤13        |  |
|          |              |                         |                      | 22.72                        | 28.00                     | 5.28      | ≤13        |  |
|          | 134132       | 711                     |                      | 22.78                        | 27.70                     | 4.92      | ≤13        |  |
|          |              |                         |                      | 22.92                        | 28.10                     | 5.18      | ≤13        |  |

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### 7.3 Equivalent Isotropic Radiated Power (EIRP) / Effective Radiated Power (ERP)

**Result** **Pass**

|                         |                                                                                 |
|-------------------------|---------------------------------------------------------------------------------|
| Specification           | FCC Part §22.913(a)(5), §24.232 (c), §27.50(d)(4), §27.50(b)(10), §27.50(c)(10) |
| Test Method / Procedure | ANSI C63.26-2015                                                                |
| Measurement Bandwidth   | 100 kHz for frequency range < 1GHz<br>1 MHz for Frequency range >1GHz           |
| Detector function       | Refer remarks below                                                             |
| Measuring Distance      | 3 m                                                                             |
| Requirement             | As per the limits mentioned in the below table                                  |
| Test setup              | Reffer TEST METHODOLOGY                                                         |

**Limit:**

**FCC Clause**

**Requirements**

FCC Part 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.

FCC Part 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 1755-1780 MHz bands are limited to 1 watt EIRP.

FCC Part 22.913(a)(5)

The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

FCC Part 27.50(b)(10)

Portable stations transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.

FCC Part 27.50(c)(10)

Control and mobile stations in the 698-746 MHz band are limited to 3 watts ERP.

**Environmental conditions:**

Temperature (Norm) = + 24 °C

Voltage = 110V AC 60Hz

Relative humidity = 62 %

**KDB Guidelines applied:**

All the radiated emission measurements are performed in accordance with common requirement specified in 5.5.2 and Pre-test site path loss correction factors are used to adjust the EUT emission data in place of two step substitution method (as defined in Annex B of ANSI C63.26-2015)

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## Test results:

Note: All the losses are included during measurement and final values are mentioned in the test report. Refer TEST METHODOLOGY for more details

**Table 8: ERP/EIRP Test results for LTE**

| Band | Modulation | Cell BW | No. of RB | RB Pos | Channel | Channel Frequency (MHz) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) |
|------|------------|---------|-----------|--------|---------|-------------------------|----------------------|------------------|-------------|
| 2    | QPSK       | 15      | 1         | 0      | Low     | 1857.5                  | Vertical             | 27.06            | 33.01       |
|      |            |         |           |        |         |                         | Horizontal           | 27.57            | 33.01       |
|      |            | 5       | 6         | 0      | Mid     | 1880                    | Vertical             | 26.29            | 33.01       |
|      |            |         |           |        |         |                         | Horizontal           | 26.90            | 33.01       |
|      |            | 10      | 4         | 2      | High    | 1902.4                  | Vertical             | 21.25            | 33.01       |
|      |            |         |           |        |         |                         | Horizontal           | 25.34            | 33.01       |

| Band | Modulation | Cell BW | No. of RB | RB Pos | Channel | Channel Frequency (MHz) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) |
|------|------------|---------|-----------|--------|---------|-------------------------|----------------------|------------------|-------------|
| 2    | 16-QAM     | 5       | 6         | 0      | Low     | 1852.5                  | Vertical             | 25.89            | 33.01       |
|      |            |         |           |        |         |                         | Horizontal           | 26.8             | 33.01       |
|      |            | 15      | 6         | 0      | Mid     | 1880                    | Vertical             | 23.37            | 33.01       |
|      |            |         |           |        |         |                         | Horizontal           | 24.29            | 33.01       |
|      |            | 20      | 6         | 0      | High    | 1900                    | Vertical             | 21.03            | 33.01       |
|      |            |         |           |        |         |                         | Horizontal           | 24.03            | 33.01       |

| Band | Modulation | Cell BW | No. of RB | RB Pos | Channel | Channel Frequency (MHz) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) |
|------|------------|---------|-----------|--------|---------|-------------------------|----------------------|------------------|-------------|
| 4    | QPSK       | 3       | 6         | 0      | Low     | 1711.5                  | Vertical             | 25.78            | 30.00       |
|      |            |         |           |        |         |                         | Horizontal           | 22.11            | 30.00       |
|      |            | 3       | 6         | 0      | Mid     | 1732.5                  | Vertical             | 26.06            | 30.00       |
|      |            |         |           |        |         |                         | Horizontal           | 22.59            | 30.00       |
|      |            | 3       | 6         | 0      | High    | 1753.5                  | Vertical             | 24.83            | 30.00       |
|      |            |         |           |        |         |                         | Horizontal           | 24.46            | 30.00       |

| Band | Modulation | Cell BW | No. of RB | RB Pos | Channel | Channel Frequency (MHz) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) |
|------|------------|---------|-----------|--------|---------|-------------------------|----------------------|------------------|-------------|
| 4    | 16-QAM     | 3       | 6         | 0      | Low     | 1711.5                  | Vertical             | 25.40            | 30.00       |
|      |            |         |           |        |         |                         | Horizontal           | 21.97            | 30.00       |
|      |            | 3       | 6         | 0      | Mid     | 1732.5                  | Vertical             | 25.92            | 30.00       |
|      |            |         |           |        |         |                         | Horizontal           | 22.63            | 30.00       |
|      |            | 3       | 6         | 0      | High    | 1753.5                  | Vertical             | 25.11            | 30.00       |
|      |            |         |           |        |         |                         | Horizontal           | 24.43            | 30.00       |

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| Band | Modulation | Cell BW | No. of RB | RB Pos | Channel | Channel Frequency (MHz) | Antenna Polarization | ERP Level (dBm) | Limit (dBm)  |
|------|------------|---------|-----------|--------|---------|-------------------------|----------------------|-----------------|--------------|
| 5    | QPSK       | 3       | 6         | 0      | Low     | 825.5                   | Vertical             | 18.04           | 38.45        |
|      |            |         |           |        |         |                         | Horizontal           | 17.11           | 38.45        |
|      |            | 10      | 4         | 0      | Mid     | 836.5                   | Vertical             | <b>18.19</b>    | <b>38.45</b> |
|      |            |         |           |        |         |                         | Horizontal           | <b>15.61</b>    | <b>38.45</b> |
|      |            | 5       | 6         | 0      | High    | 846.5                   | Vertical             | 17.97           | 38.45        |
|      |            |         |           |        |         |                         | Horizontal           | 17.17           | 38.45        |

| Band | Modulation | Cell BW | No. of RB | RB Pos | Channel | Channel Frequency (MHz) | Antenna Polarization | ERP Level (dBm) | Limit (dBm)  |
|------|------------|---------|-----------|--------|---------|-------------------------|----------------------|-----------------|--------------|
| 5    | 16-QAM     | 10      | 4         | 0      | Low     | 829                     | Vertical             | <b>18.30</b>    | <b>38.45</b> |
|      |            |         |           |        |         |                         | Horizontal           | <b>16.96</b>    | <b>38.45</b> |
|      |            | 10      | 4         | 0      | Mid     | 836.5                   | Vertical             | 18.28           | 38.45        |
|      |            |         |           |        |         |                         | Horizontal           | 15.73           | 38.45        |
|      |            | 3       | 6         | 0      | High    | 847.4                   | Vertical             | 17.66           | 38.45        |
|      |            |         |           |        |         |                         | Horizontal           | 17.29           | 38.45        |

| Band | Modulation | Cell BW | No. of RB | RB Pos | Channel | Channel Frequency (MHz) | Antenna Polarization | ERP Level (dBm) | Limit (dBm)  |
|------|------------|---------|-----------|--------|---------|-------------------------|----------------------|-----------------|--------------|
| 12   | QPSK       | 10      | 4         | 0      | Low     | 704                     | Vertical             | 12.060          | 34.77        |
|      |            |         |           |        |         |                         | Horizontal           | 7.800           | 34.77        |
|      |            | 10      | 4         | 0      | Mid     | 707.5                   | Vertical             | 13.060          | 34.77        |
|      |            |         |           |        |         |                         | Horizontal           | 8.270           | 34.77        |
|      |            | 5       | 6         | 0      | High    | 713.4                   | Vertical             | <b>14.740</b>   | <b>34.77</b> |
|      |            |         |           |        |         |                         | Horizontal           | <b>10.450</b>   | <b>34.77</b> |

| Band | Modulation | Cell BW | No. of RB | RB Pos | Channel | Channel Frequency (MHz) | Antenna Polarization | ERP Level (dBm) | Limit (dBm)  |
|------|------------|---------|-----------|--------|---------|-------------------------|----------------------|-----------------|--------------|
| 12   | 16-QAM     | 10      | 4         | 0      | Low     | 704                     | Vertical             | 11.8            | 34.77        |
|      |            |         |           |        |         |                         | Horizontal           | 6.95            | 34.77        |
|      |            | 3       | 6         | 0      | Mid     | 707.5                   | Vertical             | 12.39           | 34.77        |
|      |            |         |           |        |         |                         | Horizontal           | 7.53            | 34.77        |
|      |            | 5       | 6         | 0      | High    | 713.4                   | Vertical             | <b>14.89</b>    | <b>34.77</b> |
|      |            |         |           |        |         |                         | Horizontal           | <b>10.25</b>    | <b>34.77</b> |

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| Band | Modulation | Cell BW | No. of RB | RB Pos | Channel | Channel Frequency (MHz) | Antenna Polarization | ERP Level (dBm) | Limit (dBm) |
|------|------------|---------|-----------|--------|---------|-------------------------|----------------------|-----------------|-------------|
| 13   | QPSK       | 5       | 6         | 0      | Low     | 779.5                   | Vertical             | 18.42           | 34.77       |
|      |            |         |           |        |         |                         | Horizontal           | 15.76           | 34.77       |
|      |            | 5       | 6         | 0      | Mid     | 782                     | Vertical             | 18.60           | 34.77       |
|      |            |         |           |        |         |                         | Horizontal           | 15.90           | 34.77       |
|      |            | 5       | 6         | 0      | High    | 784.4                   | Vertical             | 18.86           | 34.77       |
|      |            |         |           |        |         |                         | Horizontal           | 16.77           | 34.77       |

| Band | Modulation | Cell BW | No. of RB | RB Pos | Channel | Channel Frequency (MHz) | Antenna Polarization | ERP Level (dBm) | Limit (dBm) |
|------|------------|---------|-----------|--------|---------|-------------------------|----------------------|-----------------|-------------|
| 13   | 16-QAM     | 5       | 6         | 0      | Low     | 779.5                   | Vertical             | 17.99           | 34.77       |
|      |            |         |           |        |         |                         | Horizontal           | 15.35           | 34.77       |
|      |            | 5       | 6         | 0      | Mid     | 782                     | Vertical             | 18.17           | 34.77       |
|      |            |         |           |        |         |                         | Horizontal           | 16.2            | 34.77       |
|      |            | 5       | 6         | 0      | High    | 784.4                   | Vertical             | 18.79           | 34.77       |
|      |            |         |           |        |         |                         | Horizontal           | 16.43           | 34.77       |

| Band | Modulation | Cell BW | No. of RB | RB Pos | Channel | Channel Frequency (MHz) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) |
|------|------------|---------|-----------|--------|---------|-------------------------|----------------------|------------------|-------------|
| 25   | QPSK       | 10      | 4         | 0      | Low     | 1855                    | Vertical             | 22.05            | 33.01       |
|      |            |         |           |        |         |                         | Horizontal           | 23.03            | 33.01       |
|      |            | 15      | 6         | 0      | Mid     | 1882.5                  | Vertical             | 21.31            | 33.01       |
|      |            |         |           |        |         |                         | Horizontal           | 22.92            | 33.01       |
|      |            | 5       | 6         | 0      | High    | 1912.4                  | Vertical             | 22.90            | 33.01       |
|      |            |         |           |        |         |                         | Horizontal           | 26.50            | 33.01       |

| Band | Modulation | Cell BW | No. of RB | RB Pos | Channel | Channel Frequency (MHz) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) |
|------|------------|---------|-----------|--------|---------|-------------------------|----------------------|------------------|-------------|
| 25   | 16-QAM     | 5       | 6         | 0      | Low     | 1852.5                  | Vertical             | 25.80            | 33.01       |
|      |            |         |           |        |         |                         | Horizontal           | 26.46            | 33.01       |
|      |            | 20      | 6         | 0      | Mid     | 1882.5                  | Vertical             | 24.43            | 33.01       |
|      |            |         |           |        |         |                         | Horizontal           | 22.27            | 33.01       |
|      |            | 10      | 4         | 2      | High    | 1909.4                  | Vertical             | 19.56            | 33.01       |
|      |            |         |           |        |         |                         | Horizontal           | 22.99            | 33.01       |

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| Band | Modulation | Cell BW | No. of RB | RB Pos | Channel | Channel Frequency (MHz) | Antenna Polarization | ERP Level (dBm) | Limit (dBm) |
|------|------------|---------|-----------|--------|---------|-------------------------|----------------------|-----------------|-------------|
| 26   | QPSK       | 3       | 6         | 0      | Low     | 815.5                   | Vertical             | 20.41           | 38.45       |
|      |            |         |           |        |         |                         | Horizontal           | 17.93           | 38.45       |
|      |            | 15      | 6         | 0      | Mid     | 831.4                   | Vertical             | 18.04           | 38.45       |
|      |            |         |           |        |         |                         | Horizontal           | 15.93           | 38.45       |
|      |            | 3       | 6         | 0      | High    | 847.4                   | Vertical             | 18.18           | 38.45       |
|      |            |         |           |        |         |                         | Horizontal           | 15.48           | 38.45       |

| Band | Modulation | Cell BW | No. of RB | RB Pos | Channel | Channel Frequency (MHz) | Antenna Polarization | ERP Level (dBm) | Limit (dBm) |
|------|------------|---------|-----------|--------|---------|-------------------------|----------------------|-----------------|-------------|
| 26   | 16-QAM     | 5       | 1         | 0      | Low     | 816.5                   | Vertical             | 20.09           | 38.45       |
|      |            |         |           |        |         |                         | Horizontal           | 17.68           | 38.45       |
|      |            | 15      | 6         | 0      | Mid     | 831.4                   | Vertical             | 18.09           | 38.45       |
|      |            |         |           |        |         |                         | Horizontal           | 14.25           | 38.45       |
|      |            | 15      | 6         | 0      | High    | 841.4                   | Vertical             | 18.14           | 38.45       |
|      |            |         |           |        |         |                         | Horizontal           | 15.40           | 38.45       |

| Band | Modulation | Cell BW | No. of RB | RB Pos | Channel | Channel Frequency (MHz) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) |
|------|------------|---------|-----------|--------|---------|-------------------------|----------------------|------------------|-------------|
| 66   | QPSK       | 5       | 1         | 0      | Low     | 1712.5                  | Vertical             | 26.67            | 30.00       |
|      |            |         |           |        |         |                         | Horizontal           | 23.11            | 30.00       |
|      |            | 3       | 1         | 0      | Mid     | 1745                    | Vertical             | 26.56            | 30.00       |
|      |            |         |           |        |         |                         | Horizontal           | 24.31            | 30.00       |
|      |            | 3       | 6         | 0      | High    | 1778.4                  | Vertical             | 26.22            | 30.00       |
|      |            |         |           |        |         |                         | Horizontal           | 26.99            | 30.00       |

| Band | Modulation | Cell BW | No. of RB | RB Pos | Channel | Channel Frequency (MHz) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) |
|------|------------|---------|-----------|--------|---------|-------------------------|----------------------|------------------|-------------|
| 66   | 16-QAM     | 5       | 1         | 0      | Low     | 1720                    | Vertical             | 23.32            | 30.00       |
|      |            |         |           |        |         |                         | Horizontal           | 23.88            | 30.00       |
|      |            | 5       | 6         | 0      | Mid     | 1745                    | Vertical             | 27.00            | 30.00       |
|      |            |         |           |        |         |                         | Horizontal           | 24.95            | 30.00       |
|      |            | 5       | 6         | 0      | High    | 1777.4                  | Vertical             | 27.06            | 30.00       |
|      |            |         |           |        |         |                         | Horizontal           | 27.72            | 30.00       |

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| Band | Modulation | Cell BW | No. of RB | RB Pos | Channel | Channel Frequency (MHz) | Antenna Polarization | ERP Level (dBm) | Limit (dBm)  |
|------|------------|---------|-----------|--------|---------|-------------------------|----------------------|-----------------|--------------|
| 85   | QPSK       | 5       | 6         | 0      | Low     | 700.5                   | Vertical             | 13.34           | 34.77        |
|      |            |         |           |        |         |                         | Horizontal           | 9.66            | 34.77        |
|      |            | 5       | 6         | 0      | Mid     | 707                     | Vertical             | <b>14.45</b>    | <b>34.77</b> |
|      |            |         |           |        |         |                         | Horizontal           | <b>9.51</b>     | <b>34.77</b> |
|      |            | 5       | 6         | 0      | High    | 713.4                   | Vertical             | 14.41           | 34.77        |
|      |            |         |           |        |         |                         | Horizontal           | 9.73            | 34.77        |

| Band | Modulation | Cell BW | No. of RB | RB Pos | Channel | Channel Frequency (MHz) | Antenna Polarization | ERP Level (dBm) | Limit (dBm)  |
|------|------------|---------|-----------|--------|---------|-------------------------|----------------------|-----------------|--------------|
| 85   | 16-QAM     | 5       | 6         | 0      | Low     | 700.5                   | Vertical             | 12.64           | 34.77        |
|      |            |         |           |        |         |                         | Horizontal           | 9.42            | 34.77        |
|      |            | 5       | 6         | 0      | Mid     | 707                     | Vertical             | <b>14.24</b>    | <b>34.77</b> |
|      |            |         |           |        |         |                         | Horizontal           | <b>9.26</b>     | <b>34.77</b> |
|      |            | 5       | 6         | 0      | High    | 713.4                   | Vertical             | 14.07           | 34.77        |
|      |            |         |           |        |         |                         | Horizontal           | 9.43            | 34.77        |

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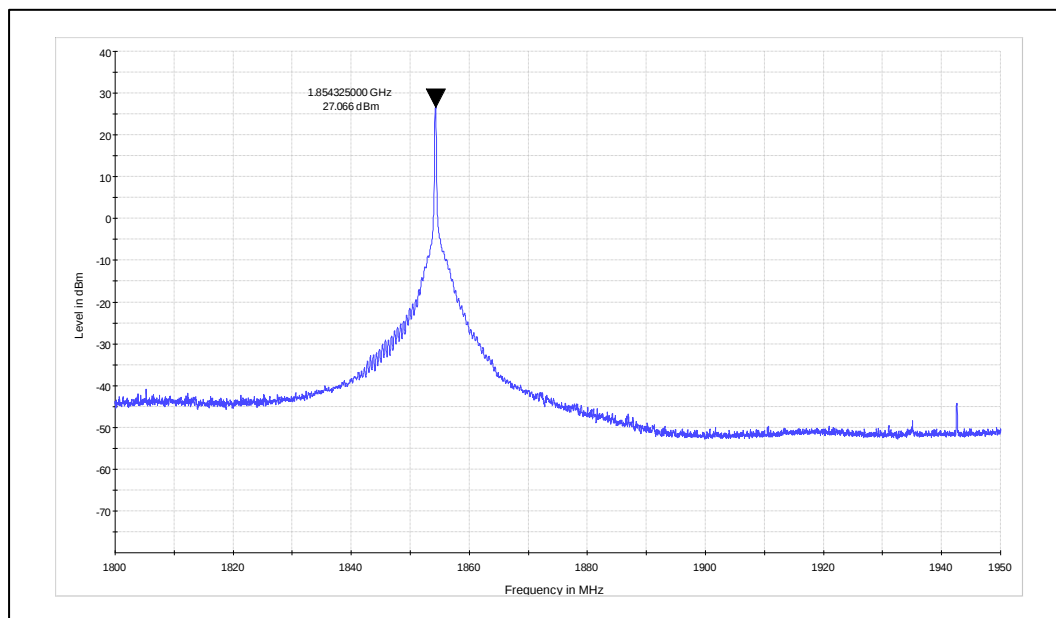
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**Worst case plots:**

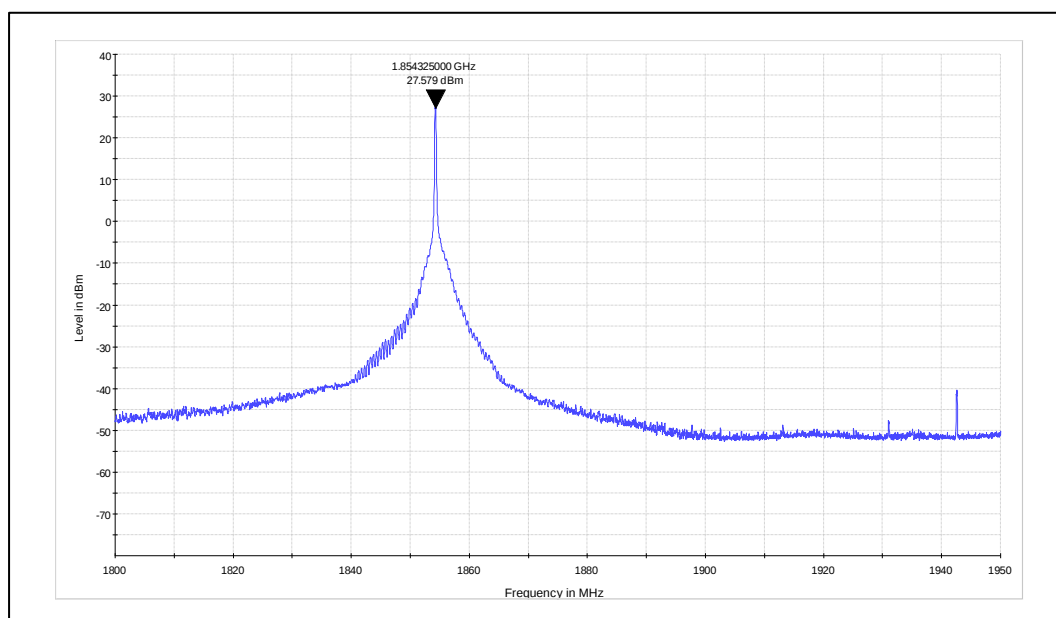
**LTE Band 2**

**Channel Frequency: 1857.5MHz\_QPSK**



**Frequency Range: 1800MHz-1959MHz**

**Polarization: Vertical**

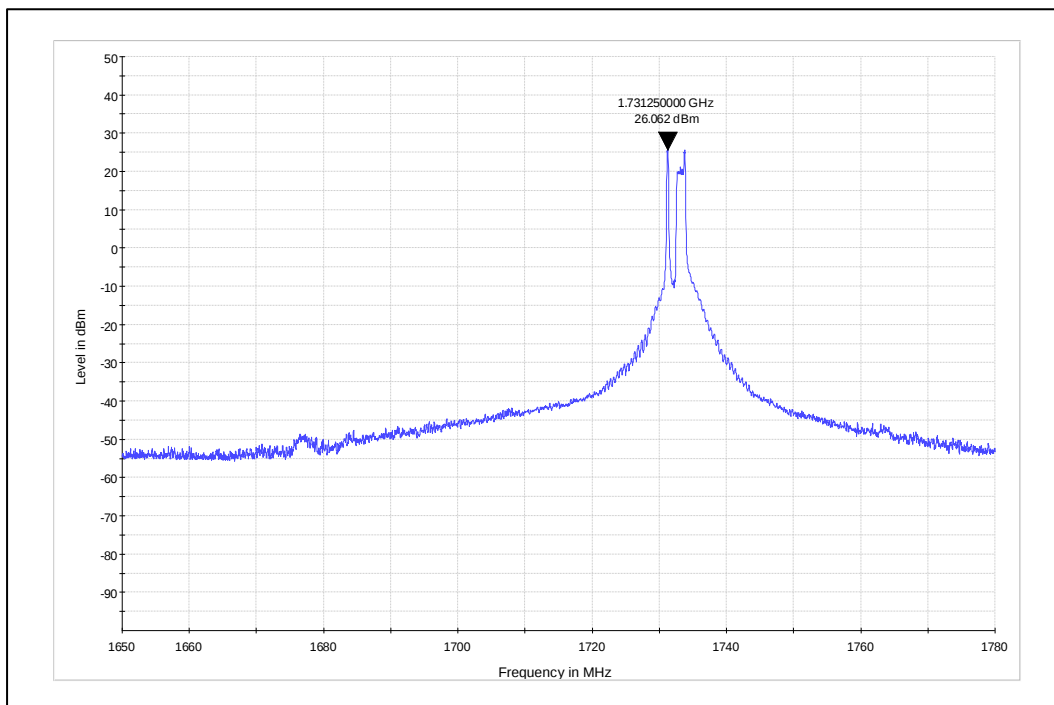


**Frequency Range: 1800MHz-1959MHz**

**Polarization: Horizontal**

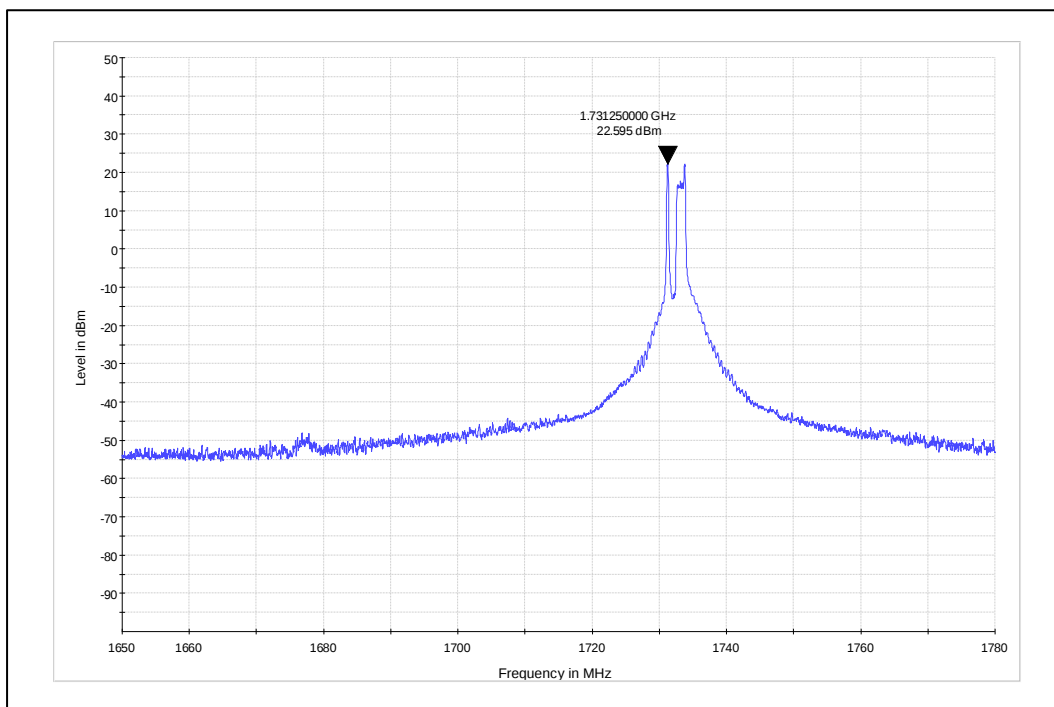
**LTE Band 4**

**Channel Frequency: 1732.5MHz\_QPSK**



**Frequency Range: 1650MHz-1780MHz**

**Polarization: Vertical**

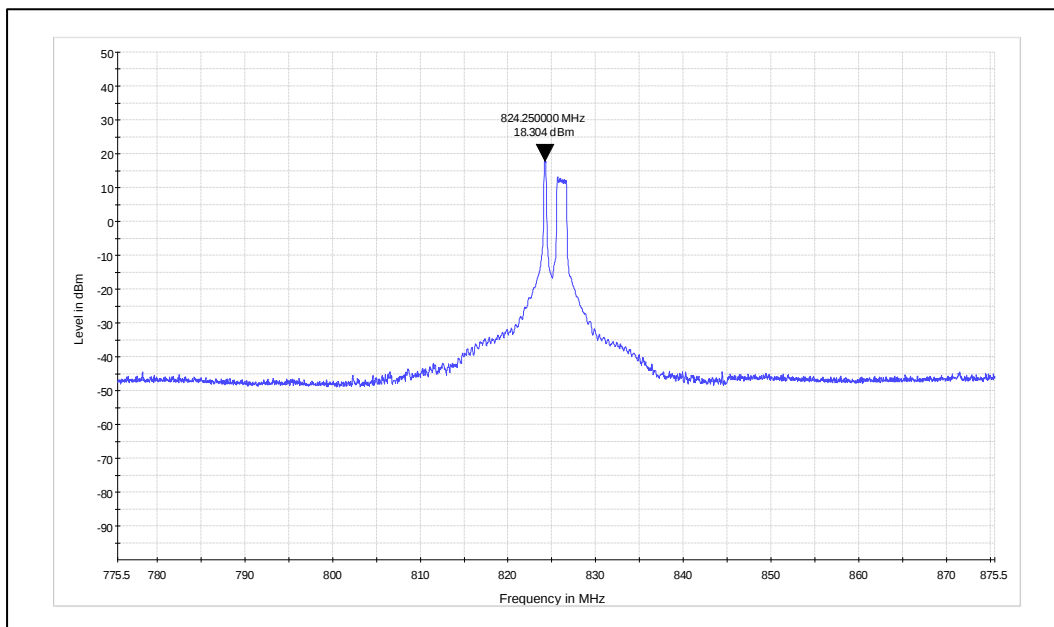


**Frequency Range: 1650MHz-1780MHz**

**Polarization: Horizontal**

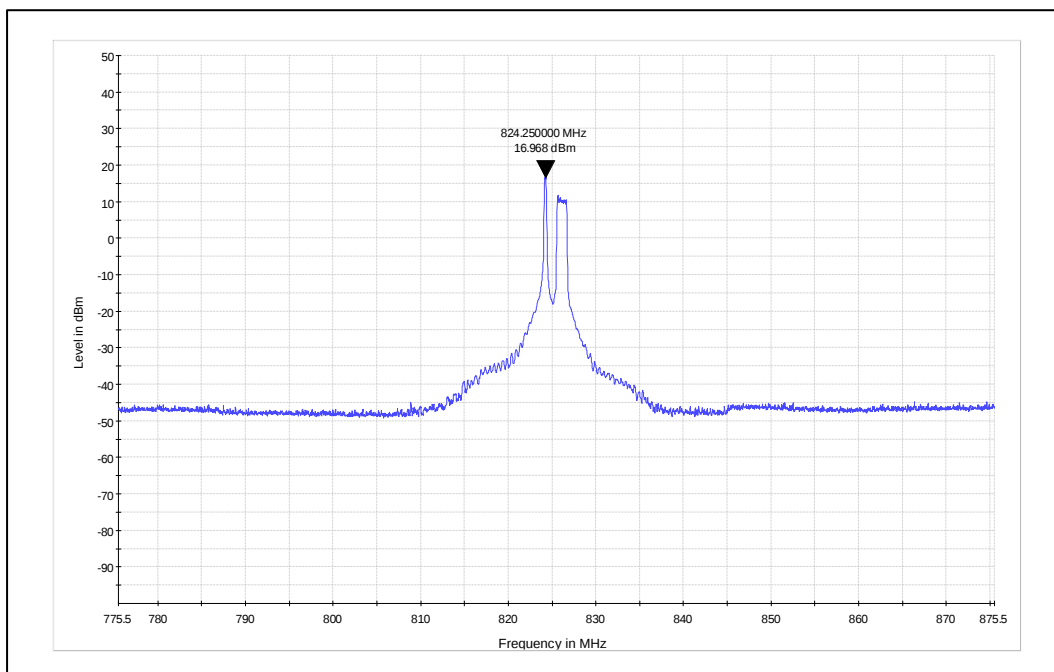
**LTE Band 5**

**Channel Frequency: 829MHz\_16QAM**



**Frequency Range: 775.5MHz-875.5MHz**

**Polarization: Vertical**

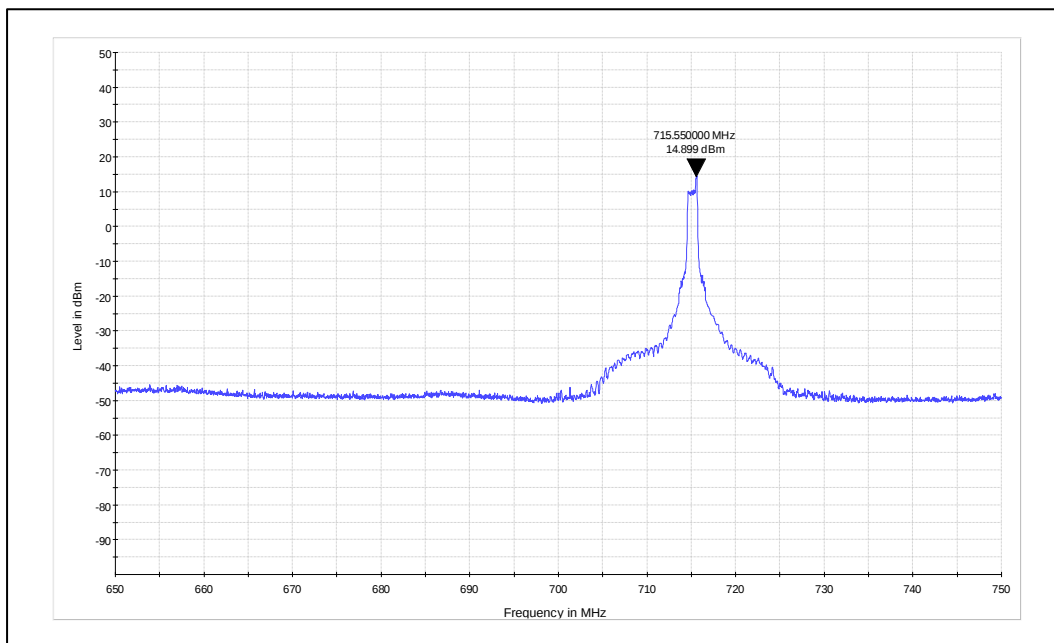


**Frequency Range: 775.5MHz-875.5MHz**

**Polarization: Horizontal**

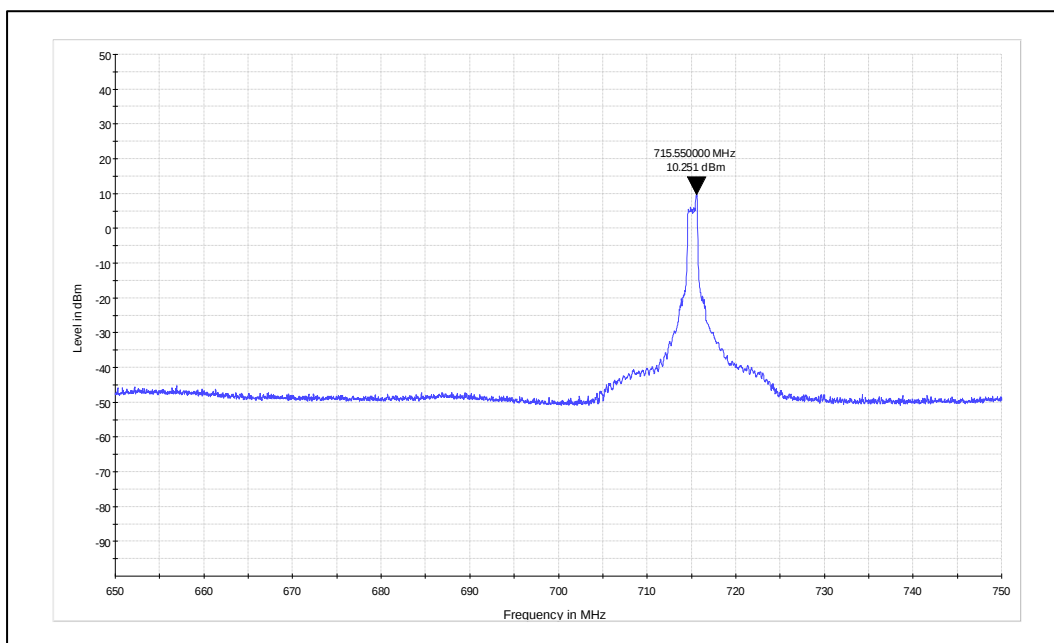
**LTE Band 12**

**Channel Frequency: 713.4MHz\_16QAM**



**Frequency Range: 650MHz-750MHz**

**Polarization: Vertical**



**Frequency Range: 650MHz-750MHz**

**Polarization: Horizontal**

**Prüfbericht - Nr.:**

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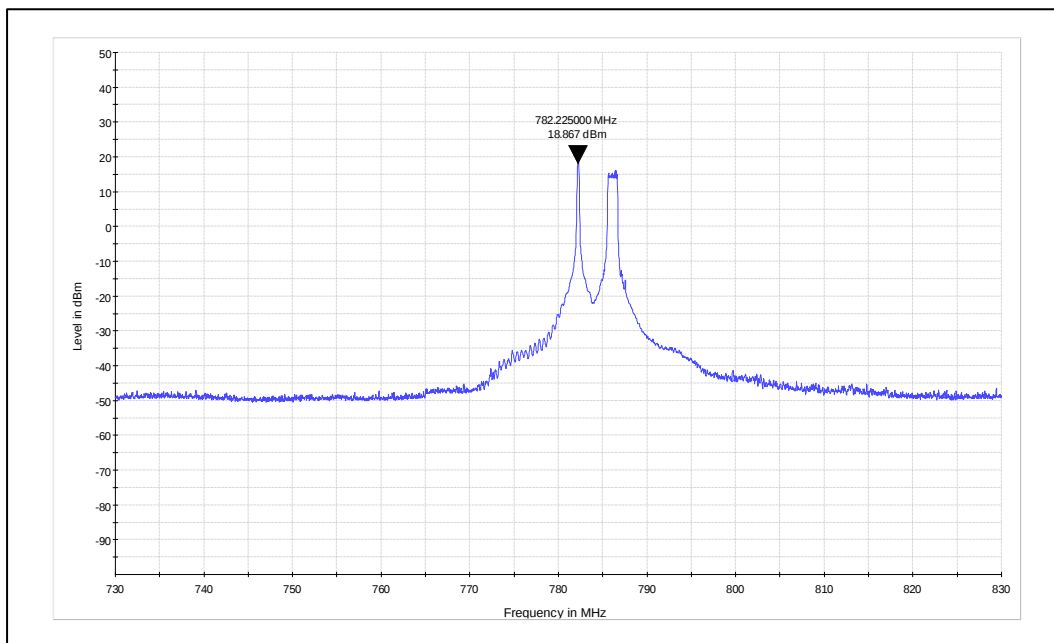
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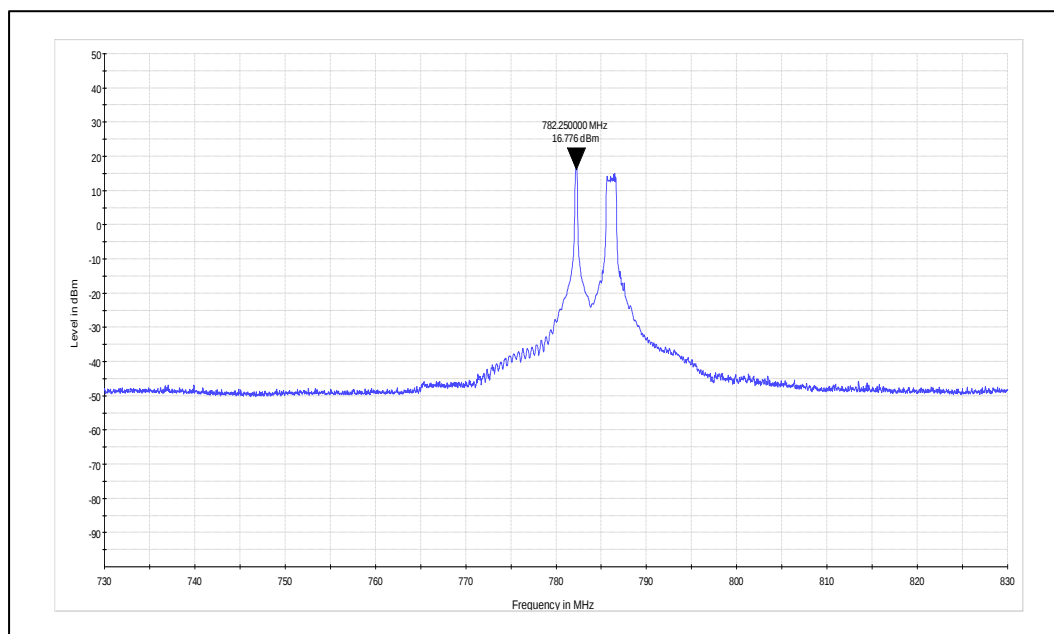
**LTE Band 13**

**Channel Frequency: 784.4MHz\_QPSK**



**Frequency Range: 730MHz-830MHz**

**Polarization: Vertical**



**Frequency Range: 730MHz-830MHz**

**Polarization: Horizontal**

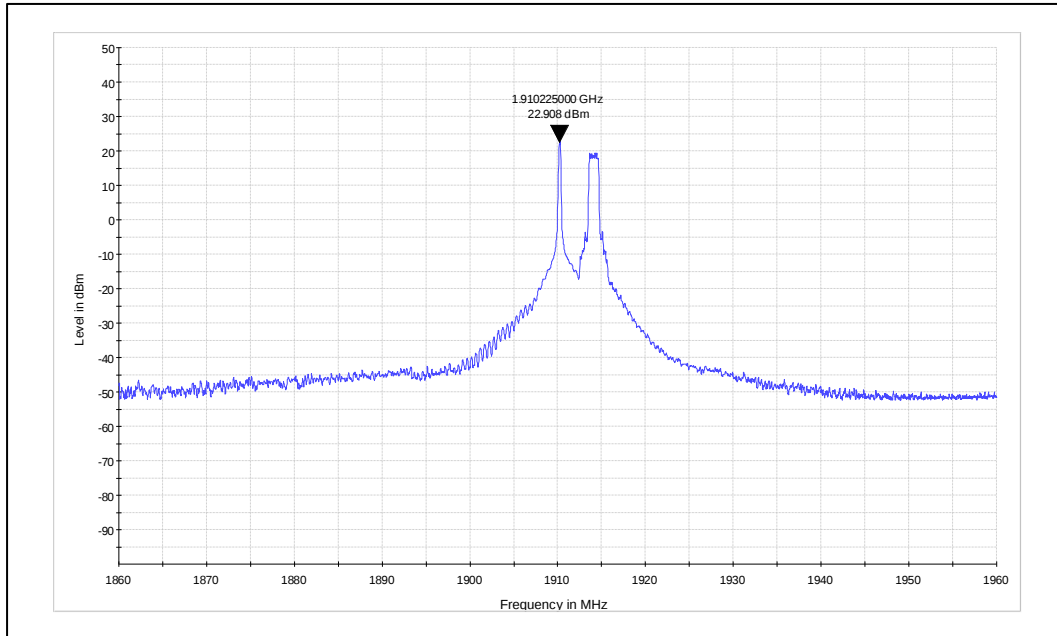
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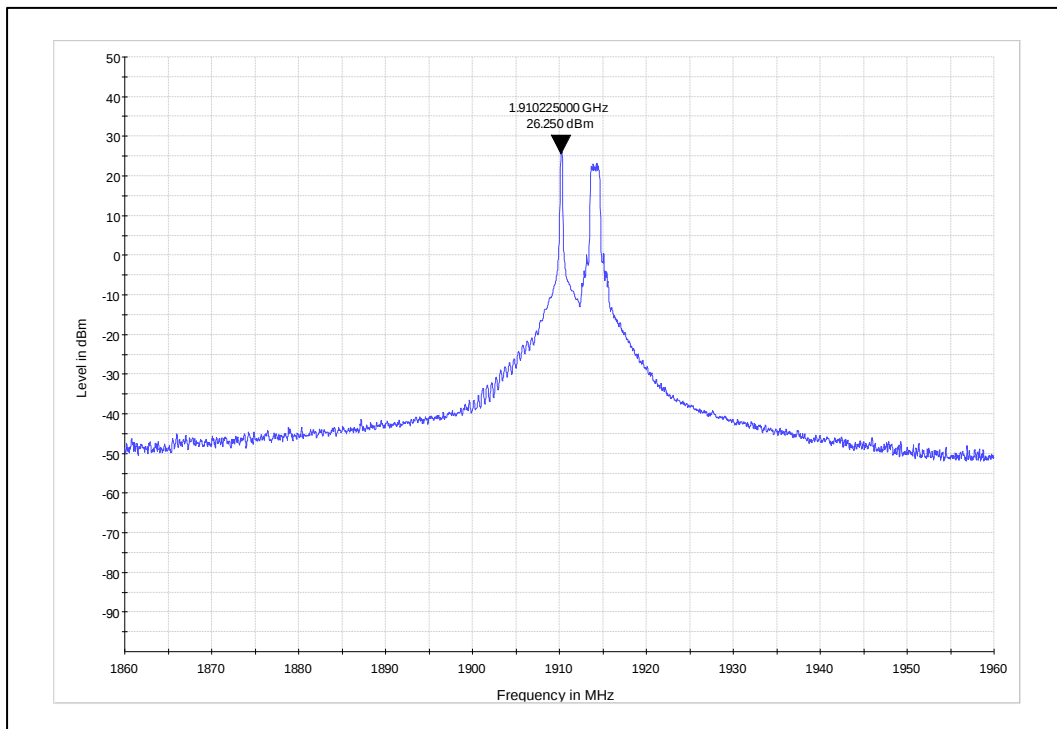
**LTE Band 25**

**Channel Frequency: 1912.4MHz\_QPSK**



**Frequency Range: 1860MHz-1960MHz**

**Polarization: Vertical**



**Frequency Range: 1860MHz-1960MHz**

**Polarization: Horizontal**

**Prüfbericht - Nr.:**

Test Report No.:

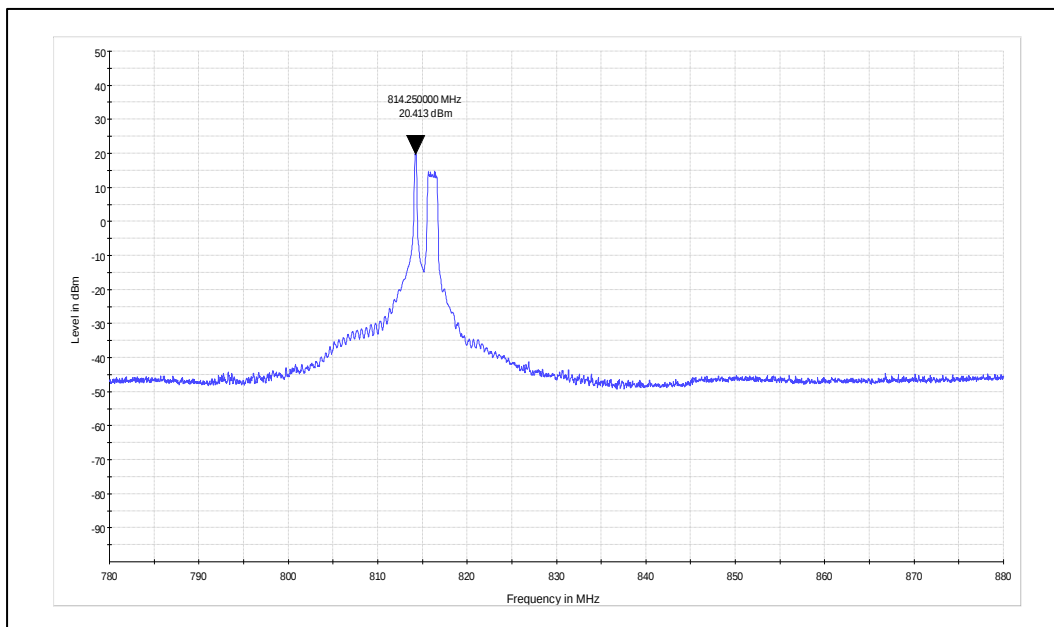
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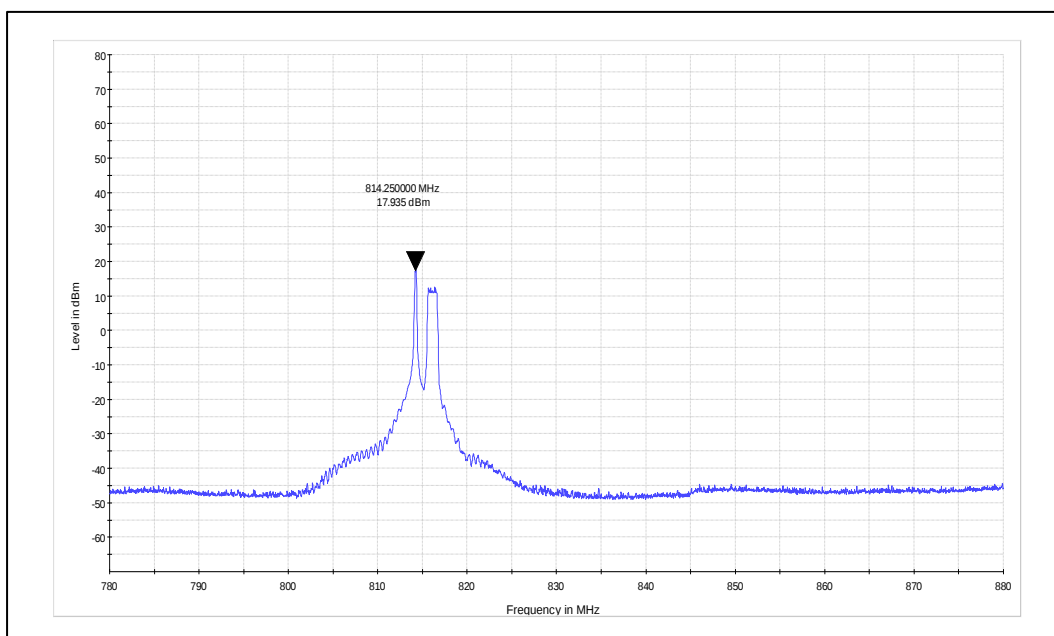
**LTE Band 26**

**Channel Frequency: 815.5MHz\_QPSK**



**Frequency Range: 780MHz-880MHz**

**Polarization: Vertical**



**Frequency Range: 780MHz-880MHz**

**Polarization: Horizontal**

**Prüfbericht - Nr.:**

Test Report No.:

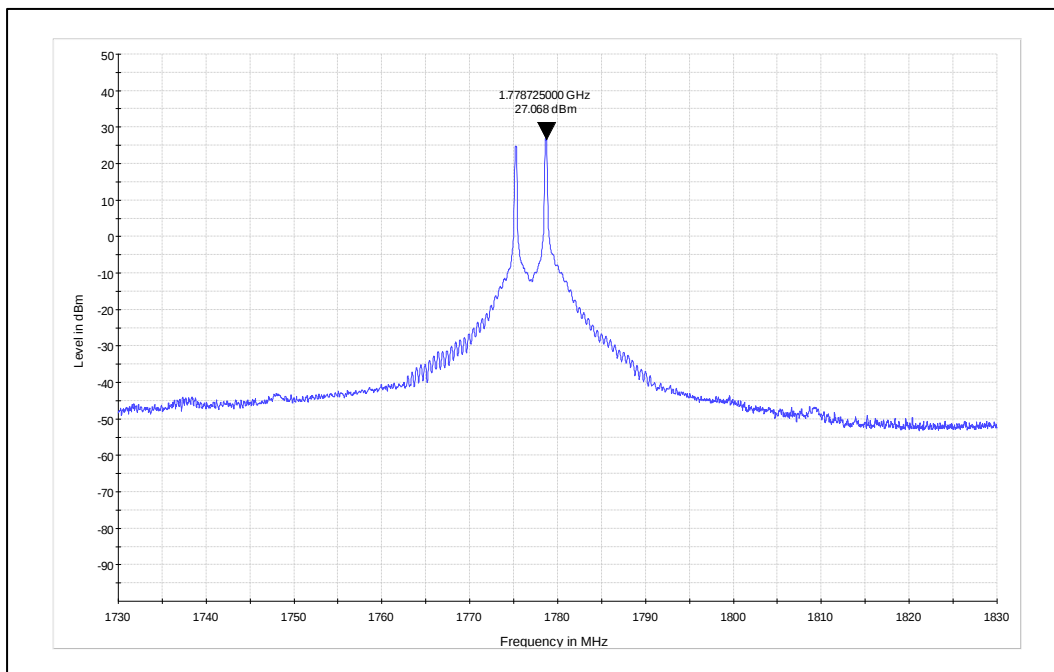
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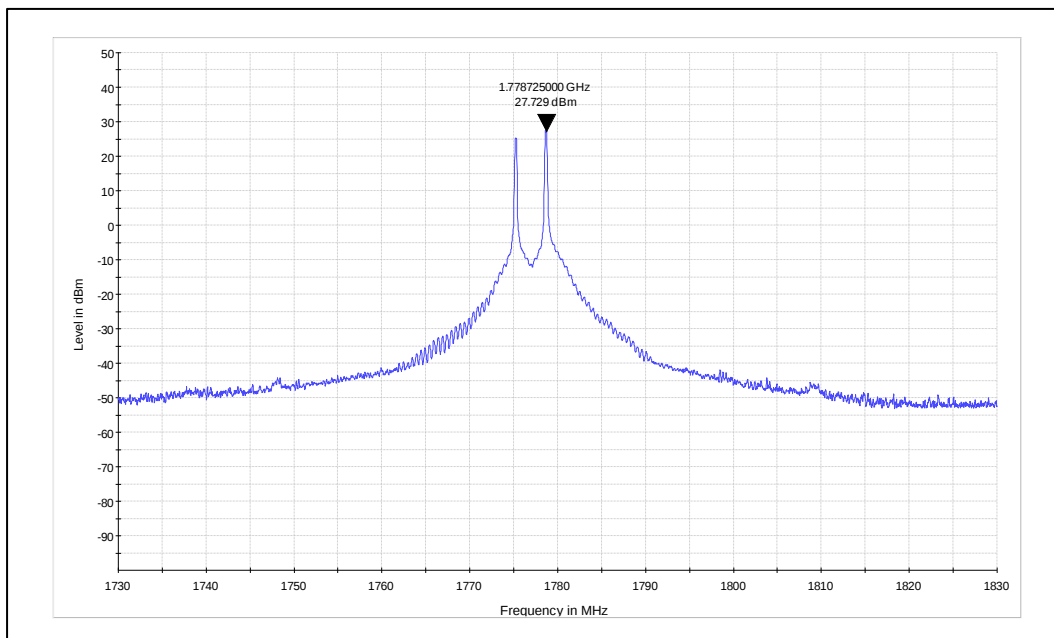
**LTE Band 66**

**Channel Frequency: 1777.4MHz\_16QAM**



**Frequency Range: 1730MHz-1830MHz**

**Polarization: Vertical**



**Frequency Range: 1730MHz-1830MHz**

**Polarization: Horizontal**

**Prüfbericht - Nr.:**

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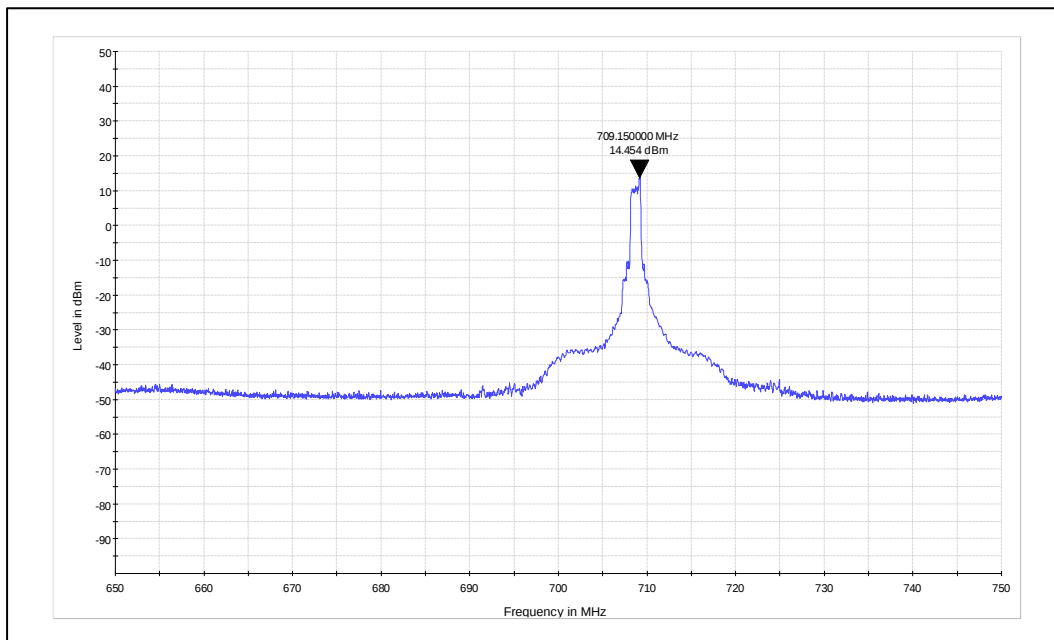
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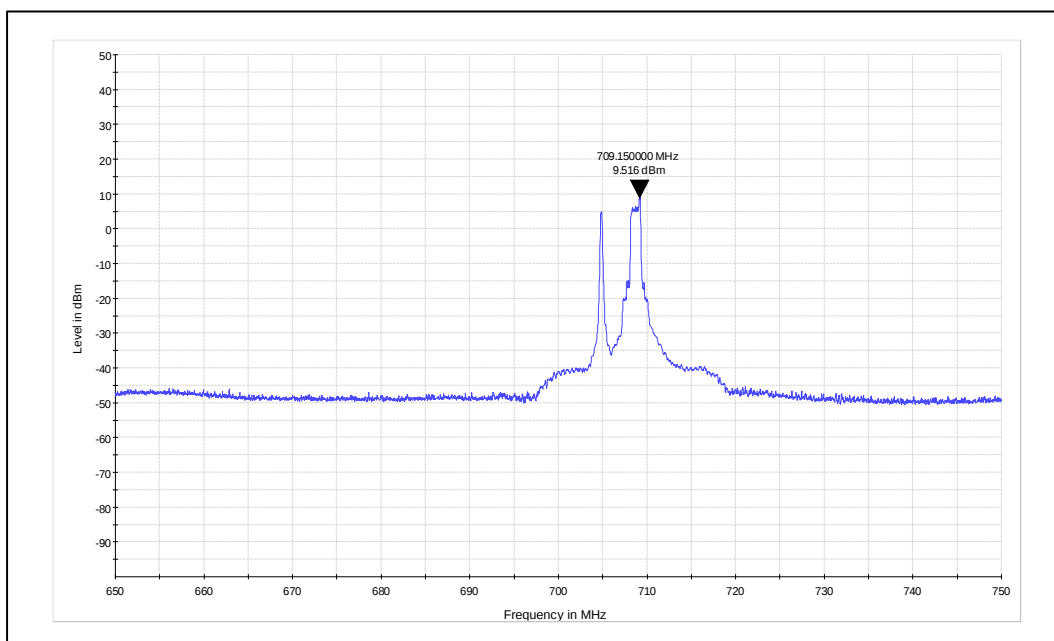
**LTE Band 85**

**Channel Frequency: 707MHz\_QPSK**



**Frequency Range: 650MHz-750MHz**

**Polarization: Vertical**



**Frequency Range: 650MHz-750MHz**

**Polarization: Horizontal**

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### GSM Test Results

| Band    | Modulation | Slot | Channel Number | Channel Frequency (MHz) | Antenna Polarization | ERP Level (dBm) | Limit (dBm) |
|---------|------------|------|----------------|-------------------------|----------------------|-----------------|-------------|
| GSM 850 | GPRS       | 4    | 128            | 824.2                   | Vertical             | 8.30            | 38.45       |
|         |            |      |                |                         | Horizontal           | 5.07            | 38.45       |
|         |            | 1    | 190            | 836.6                   | Vertical             | 11.16           | 38.45       |
|         |            |      |                |                         | Horizontal           | 6.45            | 38.45       |
|         |            | 4    | 251            | 848.8                   | Vertical             | 12.42           | 38.45       |
|         |            |      |                |                         | Horizontal           | 10.37           | 38.45       |

| Band    | Modulation | Slot | Channel Number | Channel Frequency (MHz) | Antenna Polarization | ERP Level (dBm) | Limit (dBm) |
|---------|------------|------|----------------|-------------------------|----------------------|-----------------|-------------|
| GSM 850 | EGPRS      | 4    | 128            | 824.2                   | Vertical             | 8.36            | 38.45       |
|         |            |      |                |                         | Horizontal           | 5.08            | 38.45       |
|         |            | 1    | 190            | 836.6                   | Vertical             | 11.16           | 38.45       |
|         |            |      |                |                         | Horizontal           | 6.56            | 38.45       |
|         |            | 1    | 251            | 848.8                   | Vertical             | 11.66           | 38.45       |
|         |            |      |                |                         | Horizontal           | 9.50            | 38.45       |

| Band     | Modulation | Slot | Channel Number | Channel Frequency (MHz) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) |
|----------|------------|------|----------------|-------------------------|----------------------|------------------|-------------|
| GSM 1900 | GPRS       | 2    | 512            | 1850.2                  | Vertical             | 24.63            | 33.01       |
|          |            |      |                |                         | Horizontal           | 24.79            | 33.01       |
|          |            | 4    | 661            | 1880                    | Vertical             | 25.57            | 33.01       |
|          |            |      |                |                         | Horizontal           | 25.33            | 33.01       |
|          |            | 4    | 810            | 1909.8                  | Vertical             | 25.56            | 33.01       |
|          |            |      |                |                         | Horizontal           | 25.65            | 33.01       |

| Band     | Modulation | Slot | Channel Number | Channel Frequency (MHz) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) |
|----------|------------|------|----------------|-------------------------|----------------------|------------------|-------------|
| GSM 1900 | EGPRS      | 2    | 512            | 1850.2                  | Vertical             | 24.80            | 33.01       |
|          |            |      |                |                         | Horizontal           | 24.83            | 33.01       |
|          |            | 3    | 661            | 1880                    | Vertical             | 25.50            | 33.01       |
|          |            |      |                |                         | Horizontal           | 25.34            | 33.01       |
|          |            | 3    | 810            | 1909.8                  | Vertical             | 25.54            | 33.01       |
|          |            |      |                |                         | Horizontal           | 25.65            | 33.01       |

**Prüfbericht - Nr.:**

Test Report No.:

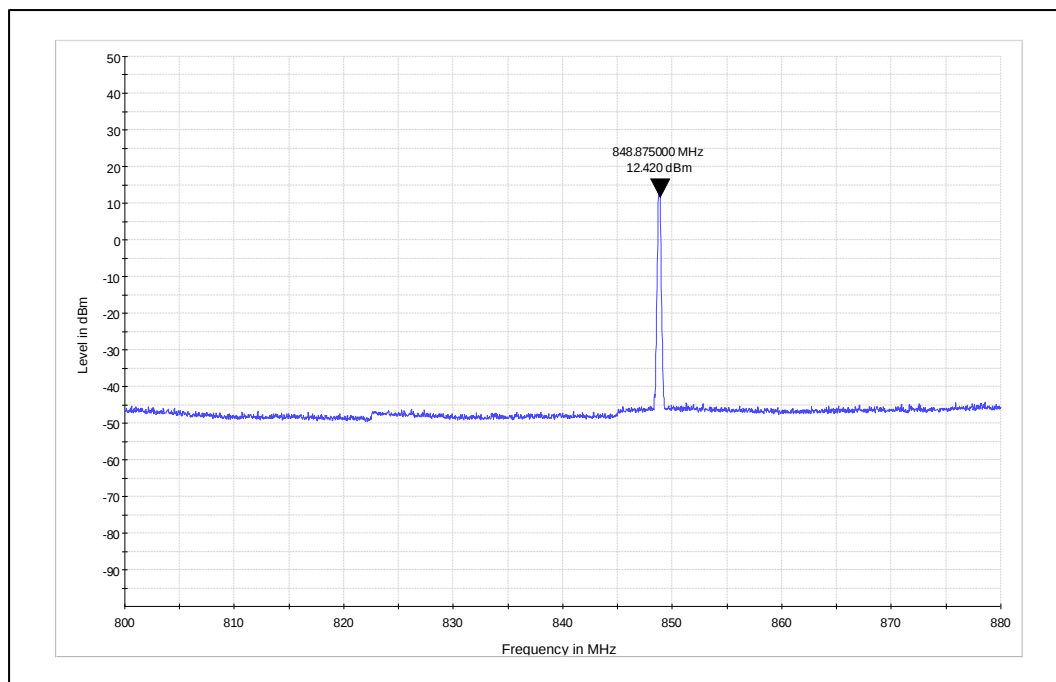
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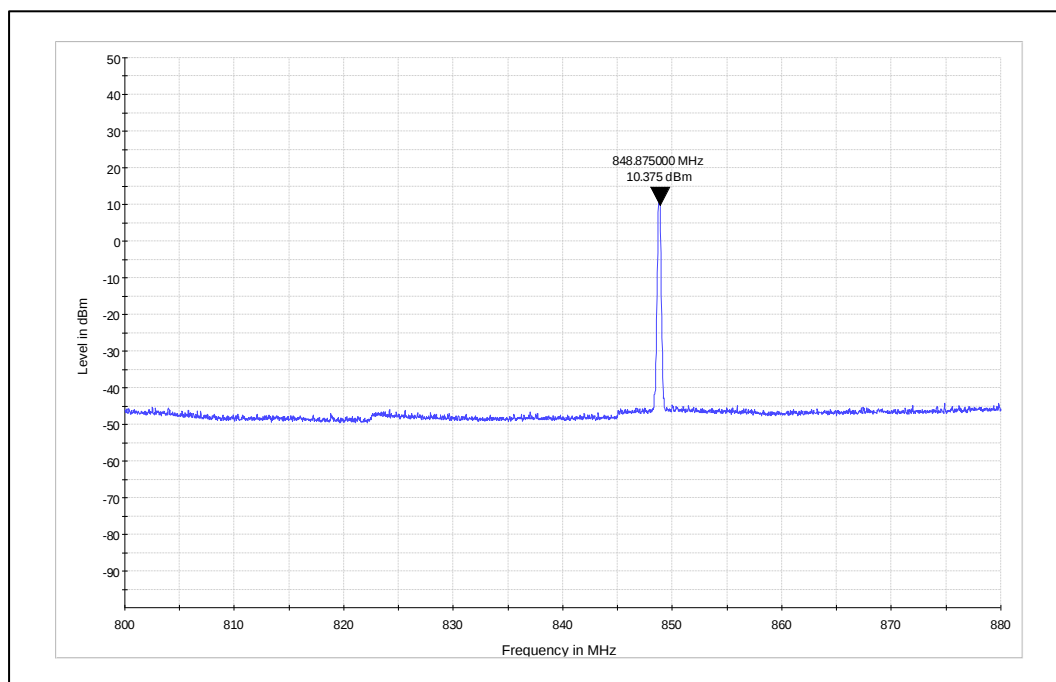
**GSM 850 Worst Case Plots**

**Channel Frequency: 848.8MHz\_GPRS**



**Frequency Range: 800MHz-880MHz**

**Polarization: Vertical**

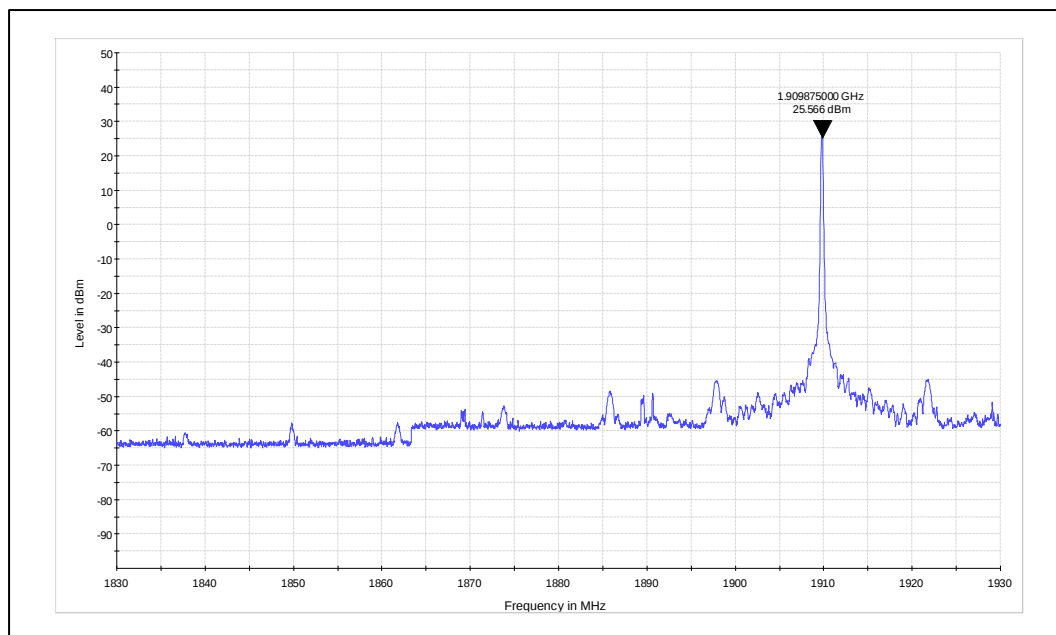


**Frequency Range: 800MHz-880MHz**

**Polarization: Horizontal**

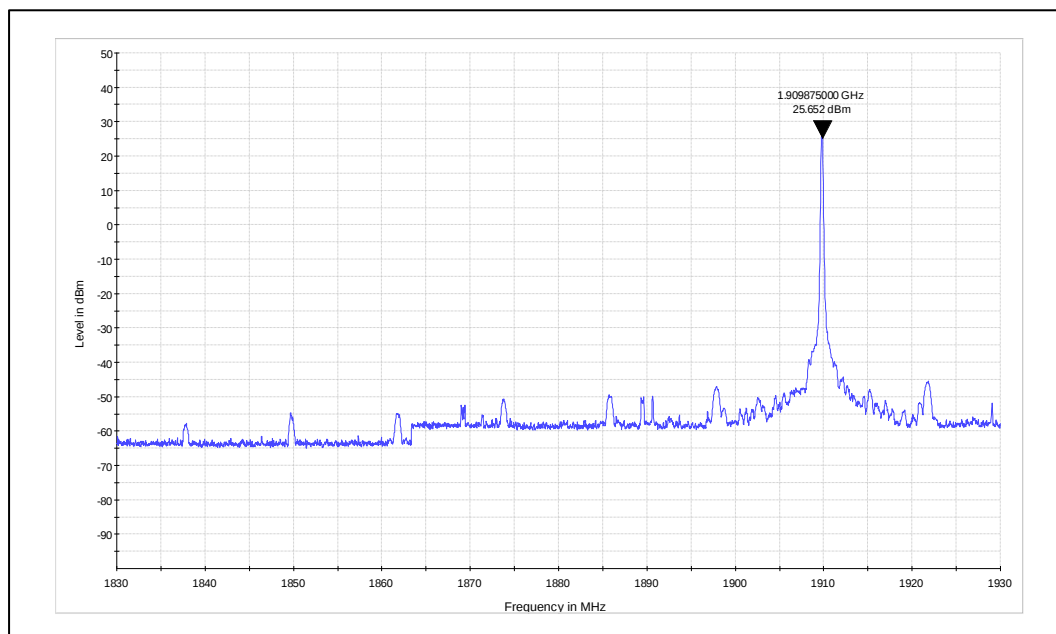
**GSM 1900 Worst Case Plots**

**Channel Frequency: 1909.8MHz\_GPRS**



**Frequency Range: 1830MHz-1930MHz**

**Polarization: Vertical**



**Frequency Range: 1830MHz-1930MHz**

**Polarization: Horizontal**

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## 7.4 Field Strength of Spurious Radiation

**Result**

**Pass**

|                             |                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Specification               | FCC Part §2.1053, §22.917(a), §24.238(a), §27.53(a), §27.53(f), §27.53(g) & §27.53(h)<br>RSS 132 Issue 3, Section 5.5<br>As per sub clause 5.5 of ANSI C63.26-2015                                                                                                                                                                                                              |
| Test Method / Procedure     | As per sub clause 7 in 971168 D01 Power Meas License Digital Systems v03r01                                                                                                                                                                                                                                                                                                     |
| Measurement Bandwidth (RBW) | 100 kHz for frequency range < 1GHz<br>1 MHz for Frequency range >1GHz                                                                                                                                                                                                                                                                                                           |
| Detector Function           | Peak                                                                                                                                                                                                                                                                                                                                                                            |
| Measuring Distance          | 3 m                                                                                                                                                                                                                                                                                                                                                                             |
| Requirement                 | The power of any emission outside the authorized frequency range must be attenuated below the transmitting power (P) by a factor of at least $43+10\log(P)$ dB<br>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 -40 dBm/MHz equivalent isotopically radiated power (EIRP) for wideband signals |
| Test setup                  | Reffer TEST METHODOLOGY                                                                                                                                                                                                                                                                                                                                                         |

### Environmental conditions:

Temperature (Norm) = + 24 °C

Voltage = 110V AC 60Hz

Relative humidity = 62 %

Note: All the losses are included during measurement and final values are mentioned in the test report. Refer TEST METHODOLOGY for more details

### Note:

1. All the losses are included during measurement and final values are mentioned in the test report.
2. Spurious emission limit is derived using the following equation:  $43 + 10 \cdot \log(P) = 43 + 10 \cdot \log(P) = -13\text{dBm}$   
P is average power in W

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**Test results:**

**Test results for frequency range 9 kHz – 30MHz**

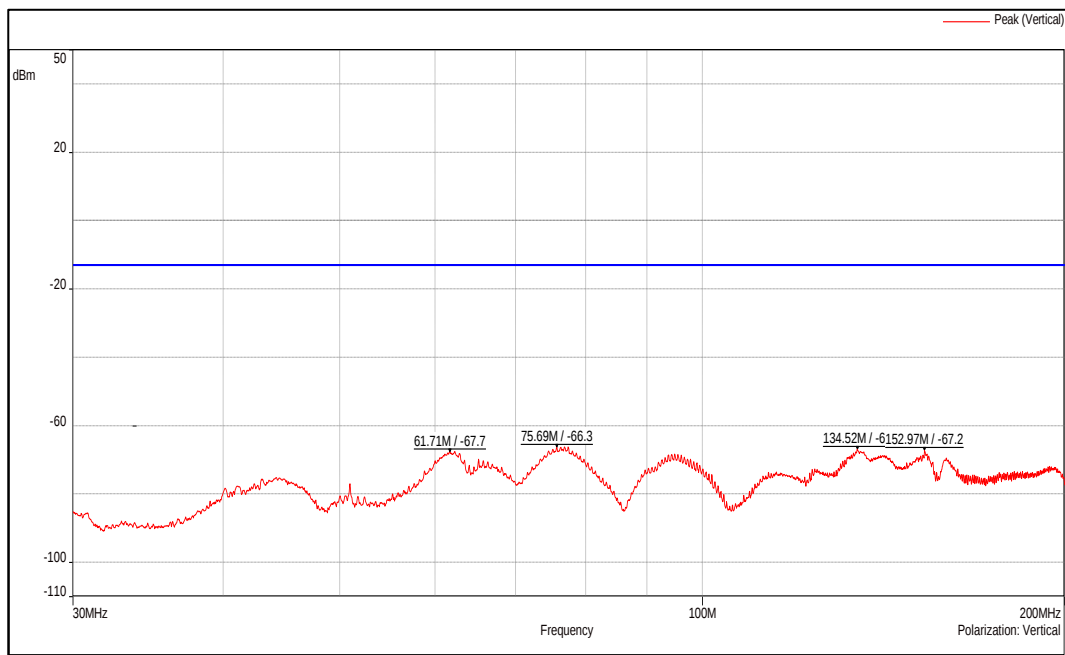
No emissions found in frequency range 9 kHz to 30 MHz, and measured levels are below 20dB from the limit line, hence not reported

**Spurious emissions for Model name: STFP2KHK2R0**

**Test results for frequency range 30MHz – 200MHz**

| Antenna polarization | Measured Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) |
|----------------------|--------------------------|-----------|-------------|-------------|
| Vertical             | 61.71                    | -67.70    | -13         | -54.70      |
|                      | 75.69                    | -66.30    | -13         | -53.30      |
|                      | 134.52                   | -66.36    | -13         | -53.36      |
|                      | 152.97                   | -67.20    | -13         | -54.20      |
| Horizontal           | 62.34                    | -77.5     | -13         | -64.50      |
|                      | 123.96                   | -72.5     | -13         | -59.50      |
|                      | 158.34                   | -66.40    | -13         | -53.40      |

**Plots for frequency range 30MHz to 200MHz**



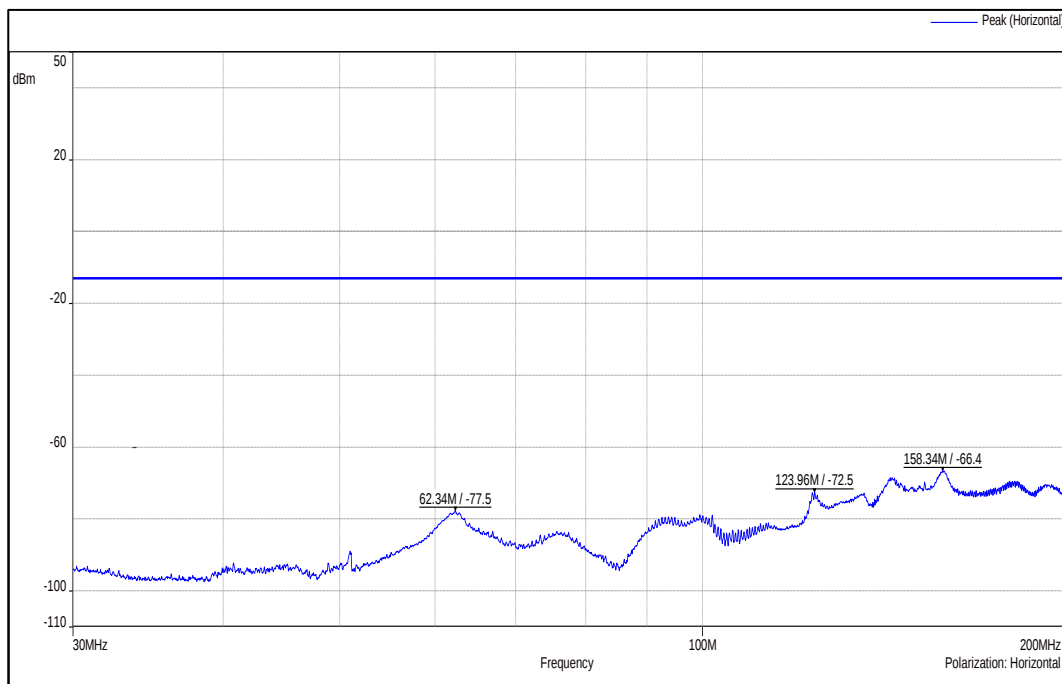
**Frequency Range: 30MHz-200MHz**

**Polarization: Vertical**

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**Frequency Range: 30MHz-200MHz**

**Polarization: Horizontal**

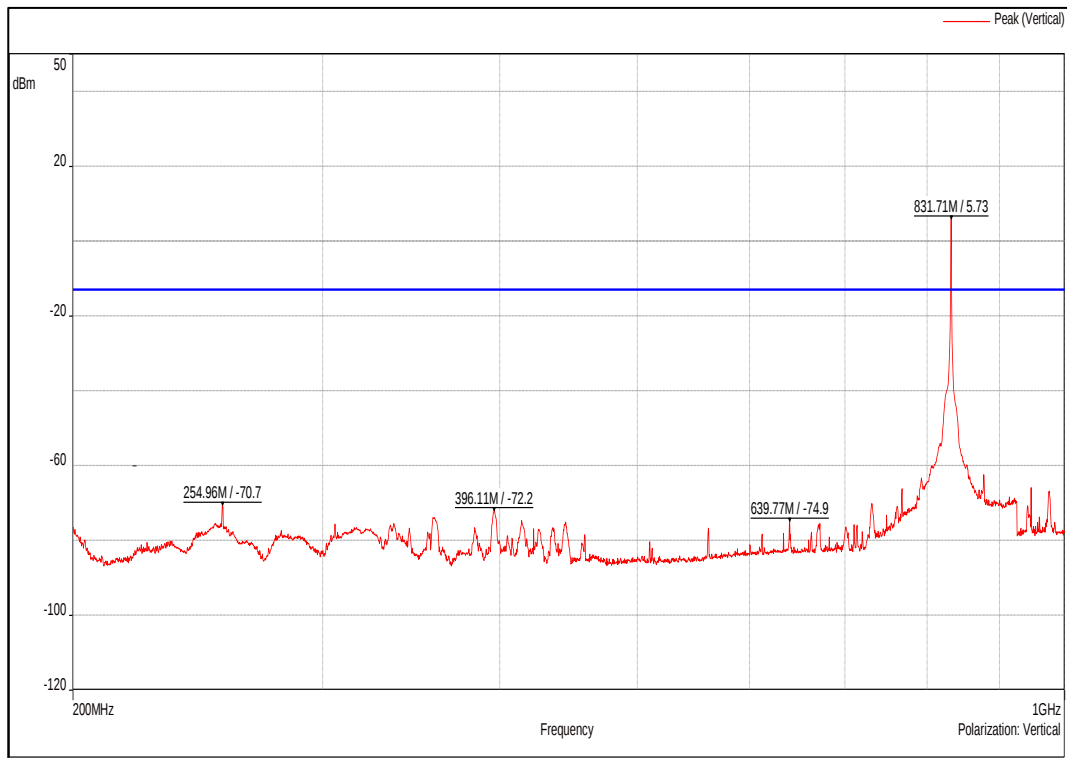
**Test results for frequency range 200MHz – 1GHz**

| Antenna polarization | Measured Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) |
|----------------------|--------------------------|-----------|-------------|-------------|
| Vertical             | 254.96                   | -70.70    | -13         | -57.70      |
|                      | 396.11                   | -72.20    | -13         | -59.20      |
|                      | 639.77                   | -76.60    | -13         | -63.60      |
| Horizontal           | 254.90                   | -67.50    | -13         | -54.50      |
|                      | 356.96                   | -75.60    | -13         | -62.60      |
|                      | 639.77                   | -76.10    | -13         | -63.10      |

**Prüfbericht - Nr.:**  
Test Report No.:

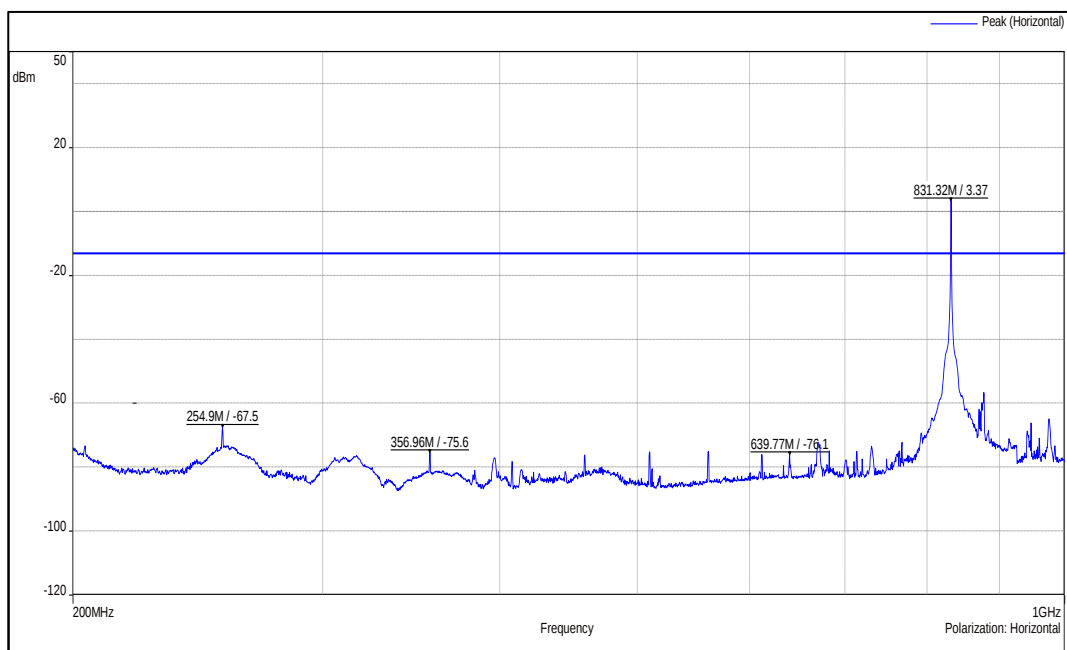
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**Frequency Range: 200MHz-1GHz**

**Polarization: Vertical**



**Frequency Range: 200MHz-1GHz**

**Polarization: Horizontal**

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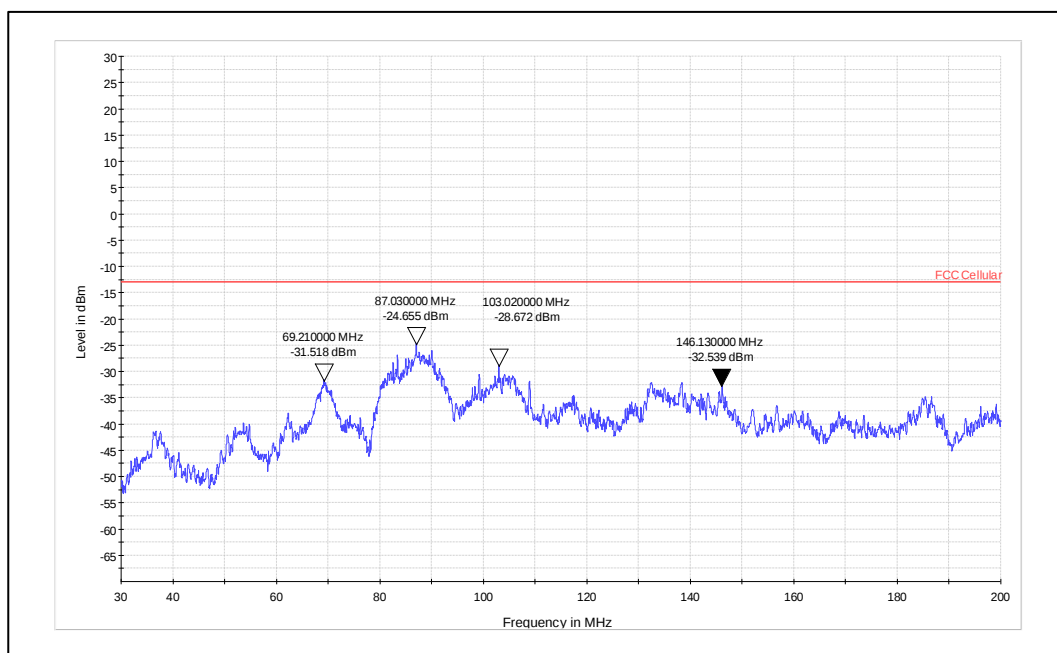
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**Spurious emissions for Model Number: STFP2KHK1CA**

Test results for frequency range 30MHz – 200MHz

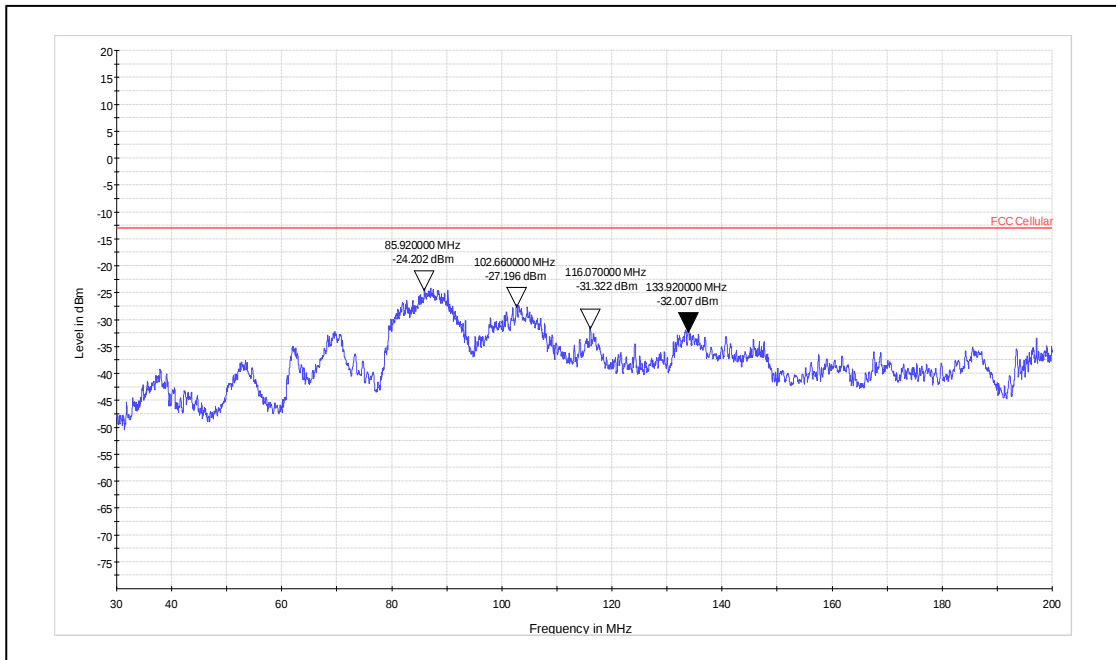
| Antenna polarization | Measured Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) |
|----------------------|--------------------------|-----------|-------------|-------------|
| Vertical             | 69.21                    | -31.51    | -13         | -18.51      |
|                      | 87.03                    | -27.65    | -13         | -14.65      |
|                      | 103.02                   | -28.67    | -13         | -15.67      |
|                      | 146.13                   | -32.53    | -13         | -19.53      |
| Horizontal           | 85.92                    | -24.20    | -13         | -11.20      |
|                      | 102.66                   | -27.19    | -13         | -14.19      |
|                      | 116.07                   | -31.32    | -13         | -18.32      |
|                      | 133.92                   | -32.00    | -13         | -19.00      |

Plots for frequency range 30MHz to 200MHz



Frequency Range: 30MHz-200MHz

Polarization: Vertical



Frequency Range: 30MHz-200MHz

Polarization: Horizontal

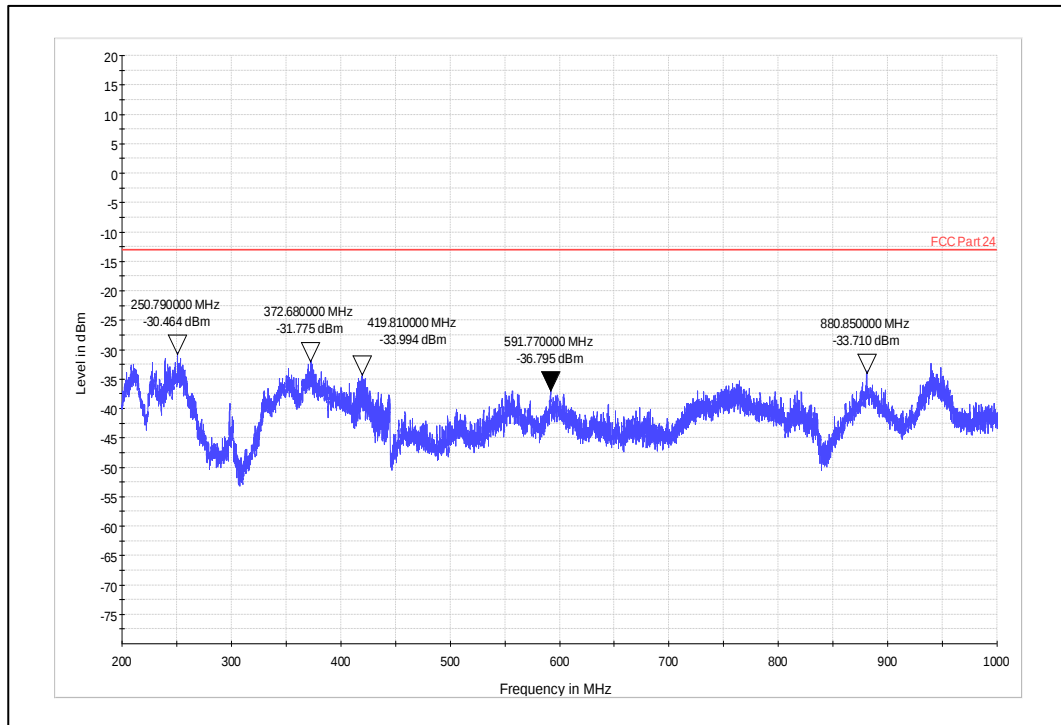
**Test results for frequency range 200MHz – 1GHz**

| Antenna polarization | Measured Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) |
|----------------------|--------------------------|-----------|-------------|-------------|
| Vertical             | 250.79                   | -30.46    | -13         | -17.46      |
|                      | 372.68                   | -31.77    | -13         | -18.77      |
|                      | 419.81                   | -33.99    | -13         | -20.99      |
|                      | 880.85                   | -33.71    | -13         | -20.71      |
| Horizontal           | 266.21                   | -37.03    | -13         | -24.03      |
|                      | 351.47                   | -34.59    | -13         | -21.59      |
|                      | 461.54                   | -37.72    | -13         | -24.72      |
|                      | 610.28                   | -36.67    | -13         | -23.67      |

**Prüfbericht - Nr.:**  
Test Report No.:

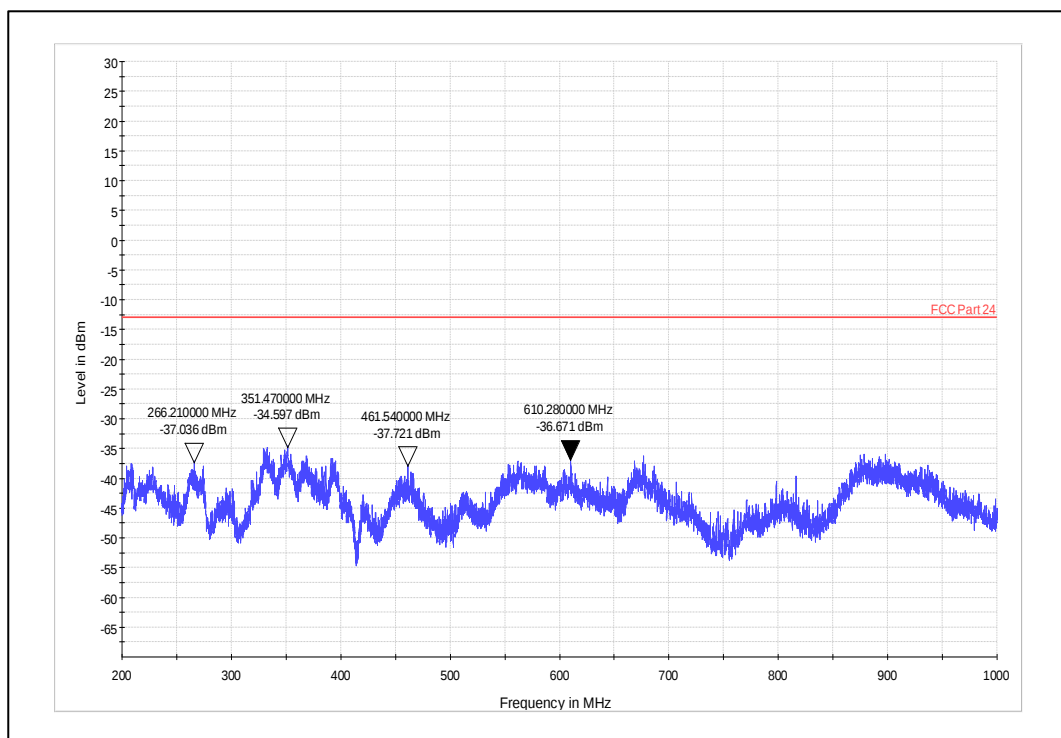
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**Frequency Range: 200MHz-1GHz**

**Polarization: Vertical**



**Frequency Range: 200MHz-1GHz**

**Polarization: Horizontal**

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**Above 1GHz Test results:**

**LTE Band 2:**

| Band | Modulation | Cell BW | Channel Frequency (MHz) | Measured Frequency (MHz) | Antenna Polarization | Emission Level (dBm) | Limit (dBm) | Margin (dB) |
|------|------------|---------|-------------------------|--------------------------|----------------------|----------------------|-------------|-------------|
| 2    | QPSK       | 15      | 1857.5                  | 3715.00                  | Vertical             | -48.63               | -13         | -35.63      |
|      |            |         |                         | 5572.50                  |                      | -44.79               | -13         | -31.79      |
|      |            |         |                         | 7430.00                  |                      | -51.27               | -13         | -38.27      |
|      |            |         |                         | 3715.00                  | Horizontal           | -45.32               | -13         | -32.32      |
|      |            |         |                         | 5572.50                  |                      | -45.50               | -13         | -32.50      |
|      |            |         |                         | 7430.00                  |                      | -45.97               | -13         | -32.97      |
|      |            | 5       | 1880                    | 3760.00                  | Vertical             | -50.12               | -13         | -37.12      |
|      |            |         |                         | 5640.00                  |                      | -46.74               | -13         | -33.74      |
|      |            |         |                         | 7520.00                  |                      | -51.24               | -13         | -38.24      |
|      |            |         |                         | 3760.00                  | Horizontal           | -49.14               | -13         | -36.14      |
|      |            |         |                         | 5640.00                  |                      | -45.94               | -13         | -32.94      |
|      |            |         |                         | 7520.00                  |                      | -47.78               | -13         | -34.78      |
|      |            | 10      | 1902.4                  | 3804.80                  | Vertical             | -52.99               | -13         | -39.99      |
|      |            |         |                         | 5707.20                  |                      | -46.59               | -13         | -33.59      |
|      |            |         |                         | 7609.60                  |                      | -50.78               | -13         | -37.78      |
|      |            |         |                         | 3804.80                  | Horizontal           | -53.11               | -13         | -40.11      |
|      |            |         |                         | 5707.20                  |                      | -46.53               | -13         | -33.53      |
|      |            |         |                         | 7609.60                  |                      | -50.65               | -13         | -37.65      |

| Band | Modulation | Cell BW | Channel Frequency (MHz) | Measured Frequency (MHz) | Antenna Polarization | Emission Level (dBm) | Limit (dBm) | Margin (dB) |
|------|------------|---------|-------------------------|--------------------------|----------------------|----------------------|-------------|-------------|
| 2    | 16-QAM     | 5       | 1852.5                  | 3705.00                  | Vertical             | -45.43               | -13         | -32.43      |
|      |            |         |                         | 5557.50                  |                      | -47.09               | -13         | -34.09      |
|      |            |         |                         | 7410.00                  |                      | -51.45               | -13         | -38.45      |
|      |            |         |                         | 3705.00                  | Horizontal           | -47.31               | -13         | -34.31      |
|      |            |         |                         | 5557.50                  |                      | -46.90               | -13         | -33.90      |
|      |            |         |                         | 7410.00                  |                      | -50.80               | -13         | -37.80      |
|      |            | 15      | 1880                    | 3760.00                  | Vertical             | -47.96               | -13         | -34.96      |
|      |            |         |                         | 5640.00                  |                      | -49.54               | -13         | -36.54      |
|      |            |         |                         | 7520.00                  |                      | -50.08               | -13         | -37.08      |
|      |            |         |                         | 3760.00                  | Horizontal           | -47.12               | -13         | -34.12      |
|      |            |         |                         | 5640.00                  |                      | -46.44               | -13         | -33.44      |
|      |            |         |                         | 7520.00                  |                      | -50.03               | -13         | -37.03      |
|      |            | 20      | 1900                    | 3800.00                  | Vertical             | -53.30               | -13         | -40.30      |
|      |            |         |                         | 5700.00                  |                      | -49.76               | -13         | -36.76      |
|      |            |         |                         | 7600.00                  |                      | -51.17               | -13         | -38.17      |
|      |            |         |                         | 3800.00                  | Horizontal           | -47.75               | -13         | -34.75      |
|      |            |         |                         | 5700.00                  |                      | -46.96               | -13         | -33.96      |
|      |            |         |                         | 7600.00                  |                      | -47.23               | -13         | -34.23      |

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**LTE Band 4:**

| Band | Modulation | Cell BW | Channel Frequency (MHz) | Measured Frequency (MHz) | Antenna Polarization | Emission Level (dBm) | Limit (dBm) | Margin (dB) |
|------|------------|---------|-------------------------|--------------------------|----------------------|----------------------|-------------|-------------|
| 4    | QPSK       | 3       | 1711.5                  | 3423                     | Vertical             | -43.69               | -13         | -30.69      |
|      |            |         |                         | 5134.5                   |                      | -50.82               | -13         | -37.82      |
|      |            |         |                         | 6846                     |                      | -54.00               | -13         | -41.00      |
|      |            |         |                         | 3423                     | Horizontal           | -46.13               | -13         | -33.13      |
|      |            |         |                         | 5134.5                   |                      | -50.64               | -13         | -37.64      |
|      |            |         |                         | 6846                     |                      | -53.23               | -13         | -40.23      |
|      |            | 3       | 1732.5                  | 3465                     | Vertical             | -41.96               | -13         | -28.96      |
|      |            |         |                         | 5197.5                   |                      | -51.51               | -13         | -38.51      |
|      |            |         |                         | 6930                     |                      | -52.97               | -13         | -39.97      |
|      |            |         |                         | 3465                     | Horizontal           | -42.68               | -13         | -29.68      |
|      |            |         |                         | 5197.5                   |                      | -50.81               | -13         | -37.81      |
|      |            |         |                         | 6930                     |                      | -52.89               | -13         | -39.89      |
|      |            | 3       | 1753.5                  | 3507                     | Vertical             | -41.62               | -13         | -28.62      |
|      |            |         |                         | 5260.5                   |                      | -50.67               | -13         | -37.67      |
|      |            |         |                         | 7014                     |                      | -52.55               | -13         | -39.55      |
|      |            |         |                         | 3507                     | Horizontal           | -42.49               | -13         | -29.49      |
|      |            |         |                         | 5260.5                   |                      | -50.97               | -13         | -37.97      |
|      |            |         |                         | 7014                     |                      | -52.74               | -13         | -39.74      |

| Band | Modulation | Cell BW | Channel Frequency (MHz) | Measured Frequency (MHz) | Antenna Polarization | Emission Level (dBm) | Limit (dBm) | Margin (dB) |
|------|------------|---------|-------------------------|--------------------------|----------------------|----------------------|-------------|-------------|
| 4    | 16-QAM     | 3       | 1711.5                  | 3423                     | Vertical             | -44.33               | -13         | -31.33      |
|      |            |         |                         | 5134.5                   |                      | -50.57               | -13         | -37.57      |
|      |            |         |                         | 6846                     |                      | -53.43               | -13         | -40.43      |
|      |            |         |                         | 3423                     | Horizontal           | -44.23               | -13         | -31.23      |
|      |            |         |                         | 5134.5                   |                      | -51.26               | -13         | -38.26      |
|      |            |         |                         | 6846                     |                      | -52.98               | -13         | -39.98      |
|      |            | 3       | 1732.5                  | 3465                     | Vertical             | -39.32               | -13         | -26.32      |
|      |            |         |                         | 5197.5                   |                      | -50.76               | -13         | -37.76      |
|      |            |         |                         | 6930                     |                      | -52.95               | -13         | -39.95      |
|      |            |         |                         | 3465                     | Horizontal           | -42.40               | -13         | -29.40      |
|      |            |         |                         | 5197.5                   |                      | -50.96               | -13         | -37.96      |
|      |            |         |                         | 6930                     |                      | -53.24               | -13         | -40.24      |
|      |            | 3       | 1753.5                  | 3507                     | Vertical             | -41.22               | -13         | -28.22      |
|      |            |         |                         | 5260.5                   |                      | -50.90               | -13         | -37.90      |
|      |            |         |                         | 7014                     |                      | -52.53               | -13         | -39.53      |
|      |            |         |                         | 3507                     | Horizontal           | -45.41               | -13         | -32.41      |
|      |            |         |                         | 5260.5                   |                      | -51.15               | -13         | -38.15      |
|      |            |         |                         | 7014                     |                      | -51.71               | -13         | -38.71      |

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**LTE Band 5:**

| Band | Modulation | Cell BW | Channel Frequency (MHz) | Measured Frequency (MHz) | Antenna Polarization | Emission Level (dBm) | Limit (dBm) | Margin (dB) |
|------|------------|---------|-------------------------|--------------------------|----------------------|----------------------|-------------|-------------|
| 5    | QPSK       | 3       | 825.5                   | 1651.00                  | Vertical             | -48.91               | -13         | -35.91      |
|      |            |         |                         | 2476.50                  |                      | -45.06               | -13         | -32.06      |
|      |            |         |                         | 3302.00                  |                      | -50.79               | -13         | -37.79      |
|      |            |         |                         | 1651.00                  | Horizontal           | -54.86               | -13         | -41.86      |
|      |            |         |                         | 2476.50                  |                      | -40.29               | -13         | -27.29      |
|      |            |         |                         | 3302.00                  |                      | -56.42               | -13         | -43.42      |
|      |            | 10      | 836.5                   | 1673.00                  | Vertical             | -36.58               | -13         | -23.58      |
|      |            |         |                         | 2509.50                  |                      | -47.68               | -13         | -34.68      |
|      |            |         |                         | 3346.00                  |                      | -49.39               | -13         | -36.39      |
|      |            |         |                         | 1673.00                  | Horizontal           | -39.12               | -13         | -26.12      |
|      |            |         |                         | 2509.50                  |                      | -41.49               | -13         | -28.49      |
|      |            |         |                         | 3346.00                  |                      | -52.30               | -13         | -39.30      |
|      |            | 5       | 846.5                   | 1693.00                  | Vertical             | -42.92               | -13         | -29.92      |
|      |            |         |                         | 2539.50                  |                      | -47.90               | -13         | -34.90      |
|      |            |         |                         | 3386.00                  |                      | -56.47               | -13         | -43.47      |
|      |            |         |                         | 1693.00                  | Horizontal           | -40.91               | -13         | -27.91      |
|      |            |         |                         | 2539.50                  |                      | -44.25               | -13         | -31.25      |
|      |            |         |                         | 3386.00                  |                      | -55.66               | -13         | -42.66      |

| Band | Modulation | Cell BW | Channel Frequency (MHz) | Measured Frequency (MHz) | Antenna Polarization | Emission Level (dBm) | Limit (dBm) | Margin (dB)   |
|------|------------|---------|-------------------------|--------------------------|----------------------|----------------------|-------------|---------------|
| 5    | 16-QAM     | 10      | 829                     | 1658                     | Vertical             | -44.09               | -13         | -31.09        |
|      |            |         |                         | 2487                     |                      | -45.92               | -13         | -32.92        |
|      |            |         |                         | 3316                     |                      | -50.69               | -13         | -37.69        |
|      |            |         |                         | 1658                     | Horizontal           | -42.88               | -13         | -29.88        |
|      |            |         |                         | 2487                     |                      | -37.28               | -13         | -24.28        |
|      |            |         |                         | 3316                     |                      | -52.93               | -13         | -39.93        |
|      |            | 10      | 836.5                   | <b>1673</b>              | Vertical             | <b>-36.05</b>        | <b>-13</b>  | <b>-23.05</b> |
|      |            |         |                         | <b>2509.5</b>            |                      | <b>-44.09</b>        | <b>-13</b>  | <b>-31.09</b> |
|      |            |         |                         | <b>3346</b>              |                      | <b>-56.53</b>        | <b>-13</b>  | <b>-43.53</b> |
|      |            |         |                         | <b>1673</b>              | Horizontal           | <b>-37.36</b>        | <b>-13</b>  | <b>-24.36</b> |
|      |            |         |                         | <b>2509.5</b>            |                      | <b>-39.48</b>        | <b>-13</b>  | <b>-26.48</b> |
|      |            |         |                         | <b>3346</b>              |                      | <b>-55.62</b>        | <b>-13</b>  | <b>-42.62</b> |
|      |            | 3       | 847.4                   | 1694.8                   | Vertical             | -40.44               | -13         | -27.44        |
|      |            |         |                         | 2542.2                   |                      | -47.72               | -13         | -34.72        |
|      |            |         |                         | 3389.6                   |                      | -56.33               | -13         | -43.33        |
|      |            |         |                         | 1694.8                   | Horizontal           | -44.30               | -13         | -31.30        |
|      |            |         |                         | 2542.2                   |                      | -44.59               | -13         | -31.59        |
|      |            |         |                         | 3389.6                   |                      | -56.67               | -13         | -43.67        |

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| Band | Modulation | Cell BW | Channel Frequency (MHz) | Measured Frequency (MHz) | Antenna Polarization | Emission Level (dBm) | Limit (dBm) | Margin (dB)   |
|------|------------|---------|-------------------------|--------------------------|----------------------|----------------------|-------------|---------------|
| 12   | QPSK       | 10      | 704                     | 1408                     | Vertical             | -47.29               | -13         | -34.29        |
|      |            |         |                         | 2112                     |                      | -51.46               | -13         | -38.46        |
|      |            |         |                         | 2816                     |                      | -53.23               | -13         | -40.23        |
|      |            |         |                         | 1408                     | Horizontal           | -47.18               | -13         | -34.18        |
|      |            |         |                         | 2112                     |                      | -49.81               | -13         | -36.81        |
|      |            |         |                         | 2816                     |                      | -52.17               | -13         | -39.17        |
|      |            | 10      | 707.5                   | 1415                     | Vertical             | <b>-51.97</b>        | <b>-13</b>  | <b>-38.97</b> |
|      |            |         |                         | 2122.5                   |                      | <b>-49.04</b>        | <b>-13</b>  | <b>-36.04</b> |
|      |            |         |                         | 2830                     |                      | <b>-52.98</b>        | <b>-13</b>  | <b>-39.98</b> |
|      |            |         |                         | 1415                     | Horizontal           | <b>-43.76</b>        | <b>-13</b>  | <b>-30.76</b> |
|      |            |         |                         | 2122.5                   |                      | <b>-47.92</b>        | <b>-13</b>  | <b>-34.92</b> |
|      |            |         |                         | 2830                     |                      | <b>-52.44</b>        | <b>-13</b>  | <b>-39.44</b> |
|      |            | 5       | 713.4                   | 1426.8                   | Vertical             | -45.84               | -13         | -32.84        |
|      |            |         |                         | 2140.2                   |                      | -46.98               | -13         | -33.98        |
|      |            |         |                         | 2853.6                   |                      | -51.36               | -13         | -38.36        |
|      |            |         |                         | 1426.8                   | Horizontal           | -46.00               | -13         | -33.00        |
|      |            |         |                         | 2140.2                   |                      | -47.10               | -13         | -34.10        |
|      |            |         |                         | 2853.6                   |                      | -52.57               | -13         | -39.57        |

| Band | Modulation | Cell BW | Channel Frequency (MHz) | Measured Frequency (MHz) | Antenna Polarization | Emission Level (dBm) | Limit (dBm) | Margin (dB) |
|------|------------|---------|-------------------------|--------------------------|----------------------|----------------------|-------------|-------------|
| 12   | 16-QAM     | 10      | 704                     | 1408                     | Vertical             | -46.82               | -13         | -33.82      |
|      |            |         |                         | 2112                     |                      | -51.71               | -13         | -38.71      |
|      |            |         |                         | 2816                     |                      | -53.51               | -13         | -40.51      |
|      |            |         |                         | 1408                     | Horizontal           | -46.82               | -13         | -33.82      |
|      |            |         |                         | 2112                     |                      | -49.93               | -13         | -36.93      |
|      |            |         |                         | 2816                     |                      | -53.12               | -13         | -40.12      |
|      |            | 3       | 707.5                   | 1415                     | Vertical             | -46.38               | -13         | -33.38      |
|      |            |         |                         | 2122.5                   |                      | -49.70               | -13         | -36.70      |
|      |            |         |                         | 2830                     |                      | -52.89               | -13         | -39.89      |
|      |            |         |                         | 1415                     | Horizontal           | -46.72               | -13         | -33.72      |
|      |            |         |                         | 2122.5                   |                      | -49.63               | -13         | -36.63      |
|      |            |         |                         | 2830                     |                      | -52.99               | -13         | -39.99      |
|      |            | 5       | 713.4                   | 1426.8                   | Vertical             | -49.85               | -13         | -36.85      |
|      |            |         |                         | 2140.2                   |                      | -49.82               | -13         | -36.82      |
|      |            |         |                         | 2853.6                   |                      | -53.45               | -13         | -40.45      |
|      |            |         |                         | 1426.8                   | Horizontal           | -46.84               | -13         | -33.84      |
|      |            |         |                         | 2140.2                   |                      | -46.42               | -13         | -33.42      |
|      |            |         |                         | 2853.6                   |                      | -53.17               | -13         | -40.17      |

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| Band | Modulation | Cell BW | Channel Frequency (MHz) | Measured Frequency (MHz) | Antenna Polarization | Emission Level (dBm) | Limit (dBm) | Margin (dB) |
|------|------------|---------|-------------------------|--------------------------|----------------------|----------------------|-------------|-------------|
| 13   | QPSK       | 5       | 779.5                   | 1559                     | Vertical             | -49.59               | -40         | -9.59       |
|      |            |         |                         | 2338.5                   |                      | -49.62               | -13         | -36.62      |
|      |            |         |                         | 3118                     |                      | -51.04               | -13         | -38.04      |
|      |            |         |                         | 1559                     | Horizontal           | -45.47               | -40         | -5.47       |
|      |            |         |                         | 2338.5                   |                      | -46.03               | -13         | -33.03      |
|      |            |         |                         | 3118                     |                      | -53.04               | -13         | -40.04      |
|      |            | 5       | 782                     | 1564                     | Vertical             | -47.52               | -40         | -7.52       |
|      |            |         |                         | 2346                     |                      | -49.10               | -13         | -36.10      |
|      |            |         |                         | 3128                     |                      | -52.39               | -13         | -39.39      |
|      |            |         |                         | 1564                     | Horizontal           | -46.22               | -40         | -6.22       |
|      |            |         |                         | 2346                     |                      | -43.84               | -13         | -30.84      |
|      |            |         |                         | 3128                     |                      | -54.50               | -13         | -41.50      |
|      |            | 5       | 784.4                   | 1568.8                   | Vertical             | -48.88               | -40         | -8.88       |
|      |            |         |                         | 2353.2                   |                      | -49.52               | -13         | -36.52      |
|      |            |         |                         | 3137.6                   |                      | -51.92               | -13         | -38.92      |
|      |            |         |                         | 1568.8                   | Horizontal           | -47.44               | -40         | -7.44       |
|      |            |         |                         | 2353.2                   |                      | -41.89               | -13         | -28.89      |
|      |            |         |                         | 3137.6                   |                      | -50.02               | -13         | -37.02      |

| Band | Modulation | Cell BW | Channel Frequency (MHz) | Measured Frequency (MHz) | Antenna Polarization | Emission Level (dBm) | Limit (dBm) | Margin (dB) |
|------|------------|---------|-------------------------|--------------------------|----------------------|----------------------|-------------|-------------|
| 13   | 16-QAM     | 5       | 779.5                   | 1559                     | Vertical             | -47.47               | -40         | -7.47       |
|      |            |         |                         | 2338.5                   |                      | -48.12               | -13         | -35.12      |
|      |            |         |                         | 3118                     |                      | -55.20               | -13         | -42.20      |
|      |            |         |                         | 1559                     | Horizontal           | -42.61               | -40         | -2.61       |
|      |            |         |                         | 2338.5                   |                      | -44.55               | -13         | -31.55      |
|      |            |         |                         | 3118                     |                      | -55.40               | -13         | -42.40      |
|      |            | 5       | 782                     | 1564                     | Vertical             | -49.19               | -40         | -9.19       |
|      |            |         |                         | 2346                     |                      | -48.75               | -13         | -35.75      |
|      |            |         |                         | 3128                     |                      | -51.29               | -13         | -38.29      |
|      |            |         |                         | 1564                     | Horizontal           | -43.86               | -40         | -3.86       |
|      |            |         |                         | 2346                     |                      | -45.82               | -13         | -32.82      |
|      |            |         |                         | 3128                     |                      | -55.01               | -13         | -42.01      |
|      |            | 5       | 784.4                   | 1568.8                   | Vertical             | -49.04               | -40         | -9.04       |
|      |            |         |                         | 2353.2                   |                      | -47.95               | -13         | -34.95      |
|      |            |         |                         | 3137.6                   |                      | -56.21               | -13         | -43.21      |
|      |            |         |                         | 1568.8                   | Horizontal           | -48.74               | -40         | -8.74       |
|      |            |         |                         | 2353.2                   |                      | -45.17               | -13         | -32.17      |
|      |            |         |                         | 3137.6                   |                      | -55.09               | -13         | -42.09      |

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| Band | Modulation | Cell BW | Channel Frequency (MHz) | Measured Frequency (MHz) | Antenna Polarization | Emission Level (dBm) | Limit (dBm) | Margin (dB) |
|------|------------|---------|-------------------------|--------------------------|----------------------|----------------------|-------------|-------------|
| 25   | QPSK       | 10      | 1855                    | 3710                     | Vertical             | -45.43               | -13         | -32.43      |
|      |            |         |                         | 5565                     |                      | -44.66               | -13         | -31.66      |
|      |            |         |                         | 7420                     |                      | -51.16               | -13         | -38.16      |
|      |            |         |                         | 3710                     | Horizontal           | -45.34               | -13         | -32.34      |
|      |            |         |                         | 5565                     |                      | -44.15               | -13         | -31.15      |
|      |            |         |                         | 7420                     |                      | -46.63               | -13         | -33.63      |
|      |            | 15      | 1882.5                  | 3765                     | Vertical             | -48.08               | -13         | -35.08      |
|      |            |         |                         | 5647.5                   |                      | -46.67               | -13         | -33.67      |
|      |            |         |                         | 7530                     |                      | -51.31               | -13         | -38.31      |
|      |            |         |                         | 3765                     | Horizontal           | -47.27               | -13         | -34.27      |
|      |            |         |                         | 5647.5                   |                      | -45.46               | -13         | -32.46      |
|      |            |         |                         | 7530                     |                      | -47.62               | -13         | -34.62      |
|      |            | 5       | 1912.4                  | 3824.8                   | Vertical             | -52.01               | -13         | -39.01      |
|      |            |         |                         | 5737.2                   |                      | -47.15               | -13         | -34.15      |
|      |            |         |                         | 7649.6                   |                      | -50.94               | -13         | -37.94      |
|      |            |         |                         | 3824.8                   | Horizontal           | -48.12               | -13         | -35.12      |
|      |            |         |                         | 5737.2                   |                      | -46.03               | -13         | -33.03      |
|      |            |         |                         | 7649.6                   |                      | -51.47               | -13         | -38.47      |

| Band | Modulation | Cell BW | Channel Frequency (MHz) | Measured Frequency (MHz) | Antenna Polarization | Emission Level (dBm) | Limit (dBm) | Margin (dB) |
|------|------------|---------|-------------------------|--------------------------|----------------------|----------------------|-------------|-------------|
| 25   | 16-QAM     | 5       | 1852.5                  | 3705                     | Vertical             | -46.86               | -13         | -33.86      |
|      |            |         |                         | 5557.5                   |                      | -49.65               | -13         | -36.65      |
|      |            |         |                         | 7410                     |                      | -50.39               | -13         | -37.39      |
|      |            |         |                         | 3705                     | Horizontal           | -47.04               | -13         | -34.04      |
|      |            |         |                         | 5557.5                   |                      | -47.44               | -13         | -34.44      |
|      |            |         |                         | 7410                     |                      | -47.97               | -13         | -34.97      |
|      |            | 20      | 1882.5                  | 3765                     | Vertical             | -47.15               | -13         | -34.15      |
|      |            |         |                         | 5647.5                   |                      | -46.03               | -13         | -33.03      |
|      |            |         |                         | 7530                     |                      | -50.3                | -13         | -37.3       |
|      |            |         |                         | 3765                     | Horizontal           | -45.36               | -13         | -32.36      |
|      |            |         |                         | 5647.5                   |                      | -43.96               | -13         | -30.96      |
|      |            |         |                         | 7530                     |                      | -46.87               | -13         | -33.87      |
|      |            | 10      | 1909.4                  | 3818.8                   | Vertical             | -49.24               | -13         | -36.24      |
|      |            |         |                         | 5728.2                   |                      | -46.13               | -13         | -33.13      |
|      |            |         |                         | 7637.6                   |                      | -50.76               | -13         | -37.76      |
|      |            |         |                         | 3818.8                   | Horizontal           | -48.44               | -13         | -35.44      |
|      |            |         |                         | 5728.2                   |                      | -45.30               | -13         | -32.30      |
|      |            |         |                         | 7637.6                   |                      | -51.45               | -13         | -38.45      |

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|------|------------|---------|-------------------------|--------------------------|----------------------|----------------------|-------------|-------------|
| 26   | QPSK       | 3       | 815.5                   | 1631                     | Vertical             | -49.52               | -13         | -36.52      |
|      |            |         |                         | 2446.5                   |                      | -43.48               | -13         | -30.48      |
|      |            |         |                         | 3262                     |                      | -52.47               | -13         | -39.47      |
|      |            |         |                         | 1631                     | Horizontal           | -48.58               | -13         | -35.58      |
|      |            |         |                         | 2446.5                   |                      | -40.09               | -13         | -27.09      |
|      |            |         |                         | 3262                     |                      | -51.88               | -13         | -38.88      |
|      |            | 15      | 831.4                   | 1662.8                   | Vertical             | -49.53               | -13         | -36.53      |
|      |            |         |                         | 2494.2                   |                      | -45.37               | -13         | -32.37      |
|      |            |         |                         | 3325.6                   |                      | -50.11               | -13         | -37.11      |
|      |            |         |                         | 1662.8                   | Horizontal           | -46.78               | -13         | -33.78      |
|      |            |         |                         | 2494.2                   |                      | -41.02               | -13         | -28.02      |
|      |            |         |                         | 3325.6                   |                      | -56.64               | -13         | -43.64      |
|      |            | 3       | 847.4                   | 1694.8                   | Vertical             | -40.56               | -13         | -27.56      |
|      |            |         |                         | 2542.2                   |                      | -50.83               | -13         | -37.83      |
|      |            |         |                         | 3389.6                   |                      | -50.27               | -13         | -37.27      |
|      |            |         |                         | 1694.8                   | Horizontal           | -45.64               | -13         | -32.64      |
|      |            |         |                         | 2542.2                   |                      | -38.85               | -13         | -25.85      |
|      |            |         |                         | 3389.6                   |                      | -56.02               | -13         | -43.02      |

| Band | Modulation | Cell BW | Channel Frequency (MHz) | Measured Frequency (MHz) | Antenna Polarization | Emission Level (dBm) | Limit (dBm) | Margin (dB) |
|------|------------|---------|-------------------------|--------------------------|----------------------|----------------------|-------------|-------------|
| 26   | 16-QAM     | 5       | 816.5                   | 1633                     | Vertical             | -49.31               | -13         | -36.31      |
|      |            |         |                         | 2449.5                   |                      | -42.70               | -13         | -29.70      |
|      |            |         |                         | 3266                     |                      | -46.93               | -13         | -33.93      |
|      |            |         |                         | 1633                     | Horizontal           | -48.95               | -13         | -35.95      |
|      |            |         |                         | 2449.5                   |                      | -36.97               | -13         | -23.97      |
|      |            |         |                         | 3266                     |                      | -50.50               | -13         | -37.50      |
|      |            | 15      | 831.4                   | 1662.8                   | Vertical             | -49.71               | -13         | -36.71      |
|      |            |         |                         | 2494.2                   |                      | -43.15               | -13         | -30.15      |
|      |            |         |                         | 3325.6                   |                      | -52.35               | -13         | -39.35      |
|      |            |         |                         | 1662.8                   | Horizontal           | -45.77               | -13         | -32.77      |
|      |            |         |                         | 2494.2                   |                      | -39.16               | -13         | -26.16      |
|      |            |         |                         | 3325.6                   |                      | -53.12               | -13         | -40.12      |
|      |            | 15      | 841.4                   | 1682.8                   | Vertical             | -40.13               | -13         | -27.13      |
|      |            |         |                         | 2524.2                   |                      | -49.19               | -13         | -36.19      |
|      |            |         |                         | 3365.6                   |                      | -52.21               | -13         | -39.21      |
|      |            |         |                         | 1682.8                   | Horizontal           | -37.39               | -13         | -24.39      |
|      |            |         |                         | 2524.2                   |                      | -38.95               | -13         | -25.95      |
|      |            |         |                         | 3365.6                   |                      | -53.34               | -13         | -40.34      |

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| Band | Modulation | Cell BW | Channel Frequency (MHz) | Measured Frequency (MHz) | Antenna Polarization | Emission Level (dBm) | Limit (dBm) | Margin (dB)   |
|------|------------|---------|-------------------------|--------------------------|----------------------|----------------------|-------------|---------------|
| 66   | QPSK       | 5       | 1712.5                  | 3425                     | Vertical             | -41.8                | -13         | -28.8         |
|      |            |         |                         | 5137.5                   |                      | -50.68               | -13         | -37.68        |
|      |            |         |                         | 6850                     |                      | -53.67               | -13         | -40.67        |
|      |            |         |                         | 3425                     | Horizontal           | -45.19               | -13         | -32.19        |
|      |            |         |                         | 5137.5                   |                      | -50.35               | -13         | -37.35        |
|      |            |         |                         | 6850                     |                      | -53.68               | -13         | -40.68        |
|      |            | 3       | 1745                    | 3490                     | Vertical             | <b>-40.23</b>        | <b>-13</b>  | <b>-27.23</b> |
|      |            |         |                         | 5235                     |                      | <b>-51.08</b>        | <b>-13</b>  | <b>-38.08</b> |
|      |            |         |                         | 6980                     |                      | <b>-45.18</b>        | <b>-13</b>  | <b>-32.18</b> |
|      |            |         |                         | 3490                     | Horizontal           | <b>-45.94</b>        | <b>-13</b>  | <b>-32.94</b> |
|      |            |         |                         | 5235                     |                      | <b>-50.84</b>        | <b>-13</b>  | <b>-37.84</b> |
|      |            |         |                         | 6980                     |                      | <b>-52.76</b>        | <b>-13</b>  | <b>-39.76</b> |
|      |            | 3       | 1778.4                  | 3556.8                   | Vertical             | -40.88               | -13         | -27.88        |
|      |            |         |                         | 5335.2                   |                      | -50.7                | -13         | -37.7         |
|      |            |         |                         | 7113.6                   |                      | -51.52               | -13         | -38.52        |
|      |            |         |                         | 3556.8                   | Horizontal           | -43.78               | -13         | -30.78        |
|      |            |         |                         | 5335.2                   |                      | -51.34               | -13         | -38.34        |
|      |            |         |                         | 7113.6                   |                      | -52.35               | -13         | -39.35        |

| Band | Modulation | Cell BW | Channel Frequency (MHz) | Measured Frequency (MHz) | Antenna Polarization | Emission Level (dBm) | Limit (dBm) | Margin (dB) |
|------|------------|---------|-------------------------|--------------------------|----------------------|----------------------|-------------|-------------|
| 66   | 16-QAM     | 5       | 1720                    | 3440                     | Vertical             | -42.83               | -13         | -29.83      |
|      |            |         |                         | 5160                     |                      | -50.53               | -13         | -37.53      |
|      |            |         |                         | 6880                     |                      | -53.06               | -13         | -40.06      |
|      |            |         |                         | 3440                     | Horizontal           | -43.58               | -13         | -30.58      |
|      |            |         |                         | 5160                     |                      | -48.13               | -13         | -35.13      |
|      |            |         |                         | 6880                     |                      | -49.32               | -13         | -36.32      |
|      |            | 5       | 1745                    | 3490                     | Vertical             | -43.58               | -13         | -30.58      |
|      |            |         |                         | 5235                     |                      | -51.31               | -13         | -38.31      |
|      |            |         |                         | 6980                     |                      | -52.73               | -13         | -39.73      |
|      |            |         |                         | 3490                     | Horizontal           | -44.39               | -13         | -31.39      |
|      |            |         |                         | 5235                     |                      | -50.83               | -13         | -37.83      |
|      |            |         |                         | 6980                     |                      | -52.43               | -13         | -39.43      |
|      |            | 5       | 1777.4                  | 3554.8                   | Vertical             | -42.99               | -13         | -29.99      |
|      |            |         |                         | 5332.2                   |                      | -50.92               | -13         | -37.92      |
|      |            |         |                         | 7109.6                   |                      | -51.76               | -13         | -38.76      |
|      |            |         |                         | 3554.8                   | Horizontal           | -40.81               | -13         | -27.81      |
|      |            |         |                         | 5332.2                   |                      | -51.32               | -13         | -38.32      |
|      |            |         |                         | 7109.6                   |                      | -51.48               | -13         | -38.48      |

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| Band | Modulation | Cell BW | Channel Frequency (MHz) | Measured Frequency (MHz) | Antenna Polarization | Emission Level (dBm) | Limit (dBm) | Margin (dB) |
|------|------------|---------|-------------------------|--------------------------|----------------------|----------------------|-------------|-------------|
| 85   | QPSK       | 5       | 700.5                   | 1401                     | Vertical             | -51.59               | -13         | -38.59      |
|      |            |         |                         | 2101.5                   |                      | -48.54               | -13         | -35.54      |
|      |            |         |                         | 2802                     |                      | -55.32               | -13         | -42.32      |
|      |            |         |                         | 1401                     | Horizontal           | -50.94               | -13         | -37.94      |
|      |            |         |                         | 2101.5                   |                      | -44.51               | -13         | -31.51      |
|      |            |         |                         | 2802                     |                      | -55.70               | -13         | -42.70      |
|      |            | 5       | 707                     | 1414                     | Vertical             | -57.15               | -13         | -44.15      |
|      |            |         |                         | 2121                     |                      | -52.91               | -13         | -39.91      |
|      |            |         |                         | 1414                     | Horizontal           | -49.32               | -13         | -36.32      |
|      |            |         |                         | 2121                     |                      | -45.97               | -13         | -32.97      |
|      |            | 5       | 713.4                   | 1426.8                   | Vertical             | -47.40               | -13         | -34.40      |
|      |            |         |                         | 2140.2                   |                      | -52.60               | -13         | -39.60      |
|      |            |         |                         | 1426.8                   | Horizontal           | -41.74               | -13         | -28.74      |
|      |            |         |                         | 2140.2                   |                      | -47.67               | -13         | -34.67      |

| Band | Modulation | Cell BW | Channel Frequency (MHz) | Measured Frequency (MHz) | Antenna Polarization | Emission Level (dBm) | Limit (dBm) | Margin (dB) |
|------|------------|---------|-------------------------|--------------------------|----------------------|----------------------|-------------|-------------|
| 85   | 16-QAM     | 5       | 700.5                   | 1401                     | Vertical             | -53.90               | -13         | -40.90      |
|      |            |         |                         | 2101.5                   |                      | -50.69               | -13         | -37.69      |
|      |            |         |                         | 2802                     |                      | -55.57               | -13         | -42.57      |
|      |            |         |                         | 1401                     | Horizontal           | -53.75               | -13         | -40.75      |
|      |            |         |                         | 2101.5                   |                      | -44.60               | -13         | -31.60      |
|      |            |         |                         | 2802                     |                      | -55.48               | -13         | -42.48      |
|      |            | 5       | 707                     | 1414                     | Vertical             | -51.10               | -13         | -38.10      |
|      |            |         |                         | 2121                     |                      | -49.91               | -13         | -36.91      |
|      |            |         |                         | 1414                     | Horizontal           | -48.31               | -13         | -35.31      |
|      |            |         |                         | 2121                     |                      | -47.38               | -13         | -34.38      |
|      |            | 5       | 713.4                   | 1426.8                   | Vertical             | -48.43               | -13         | -35.43      |
|      |            |         |                         | 2140.2                   |                      | -50.85               | -13         | -37.85      |
|      |            |         |                         | 1426.8                   | Horizontal           | -45.74               | -13         | -32.74      |
|      |            |         |                         | 2140.2                   |                      | -50.05               | -13         | -37.05      |

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### GSM Test Results

| Band    | Modulation | Slot | Channel | Channel Frequency (MHz) | Measured Frequency (MHz) | Antenna Polarization | Emission Level (dBm) | Limit | Margin |
|---------|------------|------|---------|-------------------------|--------------------------|----------------------|----------------------|-------|--------|
| GSM 850 | GPRS       | 4    | 128     | 824.2                   | 1648.4                   | Vertical             | -59.64               | -13   | -46.64 |
|         |            |      |         |                         | 2472.6                   |                      | -57.11               | -13   | -44.11 |
|         |            |      |         |                         | 1648.4                   | Horizontal           | -61.34               | -13   | -48.34 |
|         |            |      |         |                         | 2472.6                   |                      | -57.08               | -13   | -44.08 |
|         |            | 1    | 190     | 836.6                   | 1673.2                   | Vertical             | -60.92               | -13   | -47.92 |
|         |            |      |         |                         | 2509.8                   |                      | -57.13               | -13   | -44.13 |
|         |            |      |         |                         | 1673.2                   | Horizontal           | -58.18               | -13   | -45.18 |
|         |            |      |         |                         | 2509.8                   |                      | -57.19               | -13   | -44.19 |
|         |            | 4    | 251     | 848.8                   | 1697.6                   | Vertical             | -60.12               | -13   | -47.12 |
|         |            |      |         |                         | 2546.4                   |                      | -56.99               | -13   | -43.99 |
|         |            |      |         |                         | 1697.6                   | Horizontal           | -60.70               | -13   | -47.70 |
|         |            |      |         |                         | 2546.4                   |                      | -56.76               | -13   | -43.76 |

| Band    | Modulation | Slot | Channel | Channel Frequency (MHz) | Measured Frequency (MHz) | Antenna Polarization | Emission Level (dBm) | Limit | Margin |
|---------|------------|------|---------|-------------------------|--------------------------|----------------------|----------------------|-------|--------|
| GSM 850 | EGPRS      | 4    | 128     | 824.2                   | 1648.4                   | Vertical             | -61.55               | -13   | -48.55 |
|         |            |      |         |                         | 2472.6                   |                      | -56.92               | -13   | -43.92 |
|         |            |      |         |                         | 1648.4                   | Horizontal           | -61.23               | -13   | -48.23 |
|         |            |      |         |                         | 2472.6                   |                      | -56.03               | -13   | -43.03 |
|         |            | 1    | 190     | 836.6                   | 1673.2                   | Vertical             | -58.10               | -13   | -45.10 |
|         |            |      |         |                         | 2509.8                   |                      | -57.01               | -13   | -44.01 |
|         |            |      |         |                         | 1673.2                   | Horizontal           | -60.97               | -13   | -47.97 |
|         |            |      |         |                         | 2509.8                   |                      | -57.82               | -13   | -44.82 |
|         |            | 1    | 251     | 848.8                   | 1697.6                   | Vertical             | -61.35               | -13   | -48.35 |
|         |            |      |         |                         | 2546.4                   |                      | -56.84               | -13   | -43.84 |
|         |            |      |         |                         | 1697.6                   | Horizontal           | -60.73               | -13   | -47.73 |
|         |            |      |         |                         | 2546.4                   |                      | -57.68               | -13   | -44.68 |

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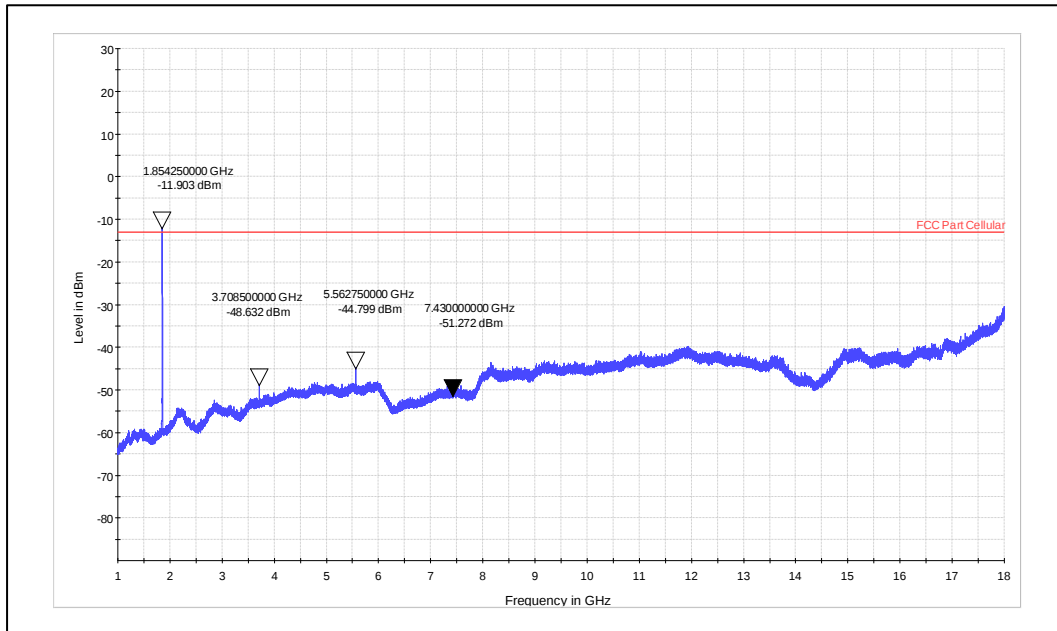
| Band     | Modulation | Slot | Channel | Channel Frequency (MHz) | Measured Frequency (MHz) | Antenna Polarization | Emission Level (dBm) | Limit | Margin |
|----------|------------|------|---------|-------------------------|--------------------------|----------------------|----------------------|-------|--------|
| GSM 1900 | GPRS       | 2    | 512     | 1850.2                  | 3700.40                  | Vertical             | -53.94               | -13   | -40.94 |
|          |            |      |         |                         | 5550.60                  |                      | -49.76               | -13   | -36.76 |
|          |            |      |         |                         | 3700.40                  | Horizontal           | -53.20               | -13   | -40.20 |
|          |            |      |         |                         | 5550.60                  |                      | -49.81               | -13   | -36.81 |
|          |            | 4    | 661     | 1880                    | 3760.00                  | Vertical             | -53.50               | -13   | -40.50 |
|          |            |      |         |                         | 5640.00                  |                      | -50.00               | -13   | -37.00 |
|          |            |      |         |                         | 3760.00                  | Horizontal           | -53.46               | -13   | -40.46 |
|          |            |      |         |                         | 5640.00                  |                      | -50.73               | -13   | -37.73 |
|          |            | 4    | 810     | 1909.8                  | 3819.60                  | Vertical             | -52.57               | -13   | -39.57 |
|          |            |      |         |                         | 5729.40                  |                      | -50.56               | -13   | -37.56 |
|          |            |      |         |                         | 3819.60                  | Horizontal           | -52.96               | -13   | -39.96 |
|          |            |      |         |                         | 5729.40                  |                      | -50.48               | -13   | -37.48 |

| Band     | Modulation | Slot | Channel | Channel Frequency (MHz) | Measured Frequency (MHz) | Antenna Polarization | Emission Level (dBm) | Limit | Margin |
|----------|------------|------|---------|-------------------------|--------------------------|----------------------|----------------------|-------|--------|
| GSM 1900 | EGPRS      | 2    | 512     | 1850.2                  | 3700.4                   | Vertical             | -53.82               | -13   | -40.8  |
|          |            |      |         |                         | 5550.6                   |                      | -50.88               | -13   | -37.9  |
|          |            |      |         |                         | 3700.4                   | Horizontal           | -53.89               | -13   | -40.9  |
|          |            |      |         |                         | 5550.6                   |                      | -49.88               | -13   | -36.9  |
|          |            | 3    | 661     | 1880                    | 3760                     | Vertical             | -53.02               | -13   | -40.0  |
|          |            |      |         |                         | 5640                     |                      | -49.91               | -13   | -36.9  |
|          |            |      |         |                         | 3760                     | Horizontal           | -53.56               | -13   | -40.6  |
|          |            |      |         |                         | 5640                     |                      | -50.35               | -13   | -37.4  |
|          |            | 3    | 810     | 1909.8                  | 3819.6                   | Vertical             | -53.25               | -13   | -40.3  |
|          |            |      |         |                         | 5729.4                   |                      | -50.24               | -13   | -37.2  |
|          |            |      |         |                         | 3819.6                   | Horizontal           | -53.03               | -13   | -40.0  |
|          |            |      |         |                         | 5729.4                   |                      | -50.02               | -13   | -37.0  |

**Worst Case Plots:**

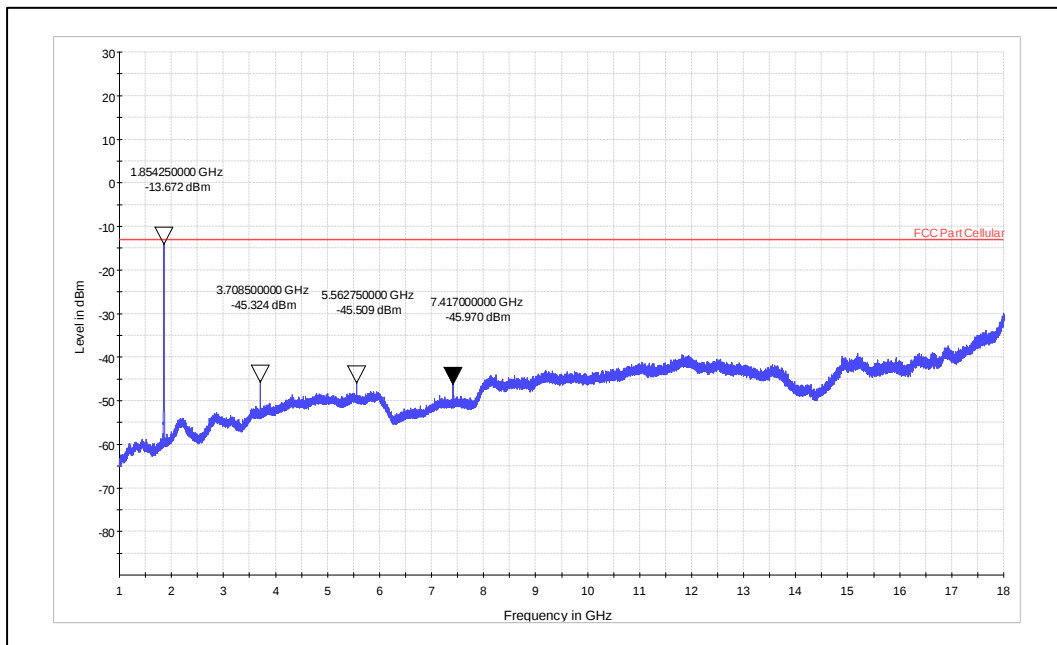
**LTE Band 2**

**Channel Frequency: 1857.5MHz\_QPSK**



**Frequency Range: 1GHz-18GHz**

**Polarization: Vertical**

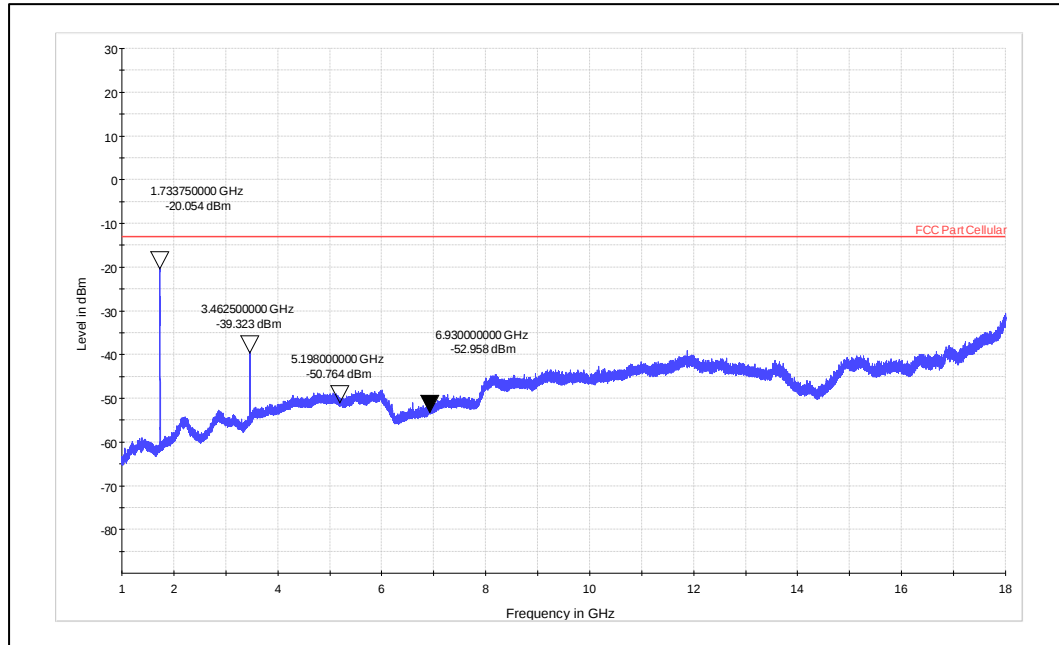


**Frequency Range: 1GHz-18GHz**

**Polarization: Horizontal**

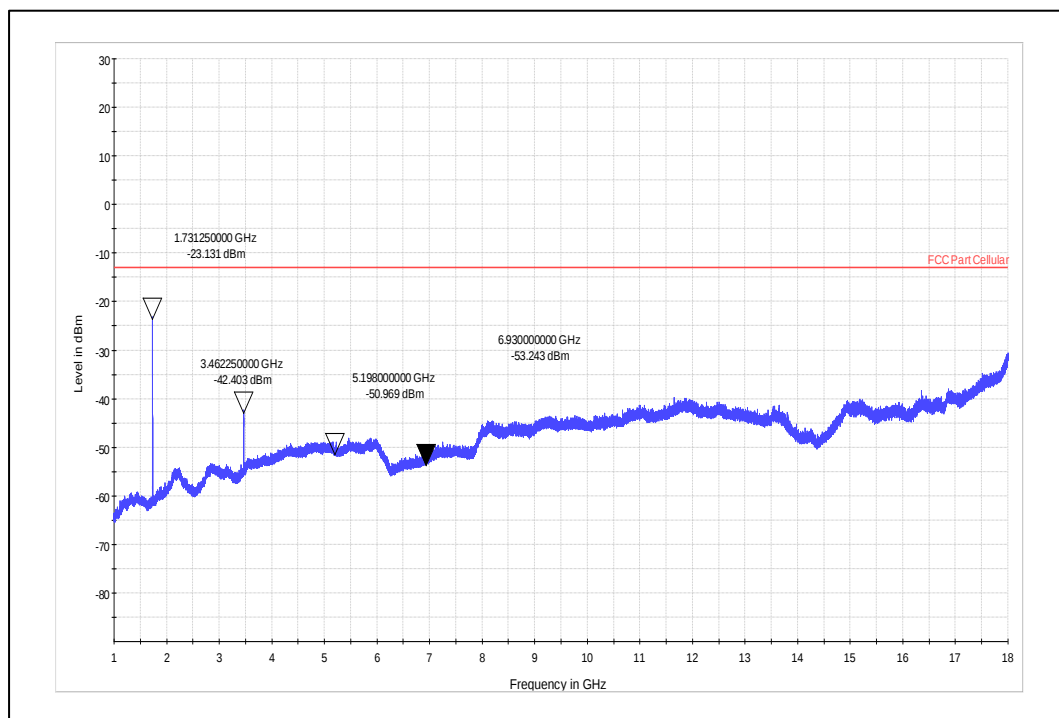
**LTE Band 4**

**Channel Frequency: 1732.5MHz\_QPSK**



**Frequency Range: 1GHz-18GHz**

**Polarization: Vertical**



**Frequency Range: 1GHz-18GHz**

**Polarization: Horizontal**

**Prüfbericht - Nr.:**

Test Report No.:

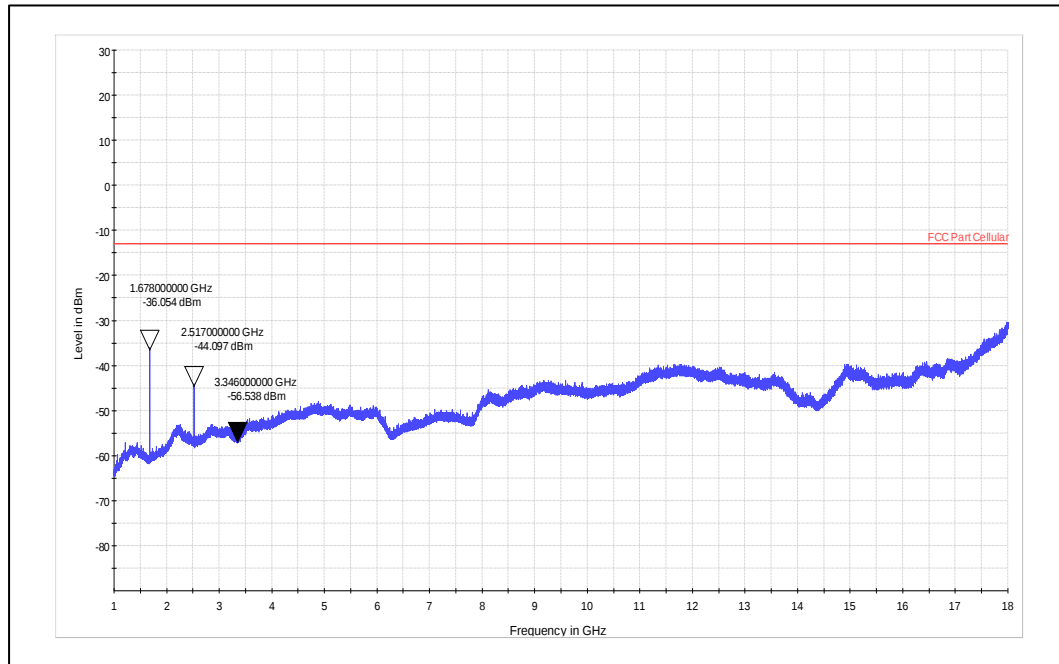
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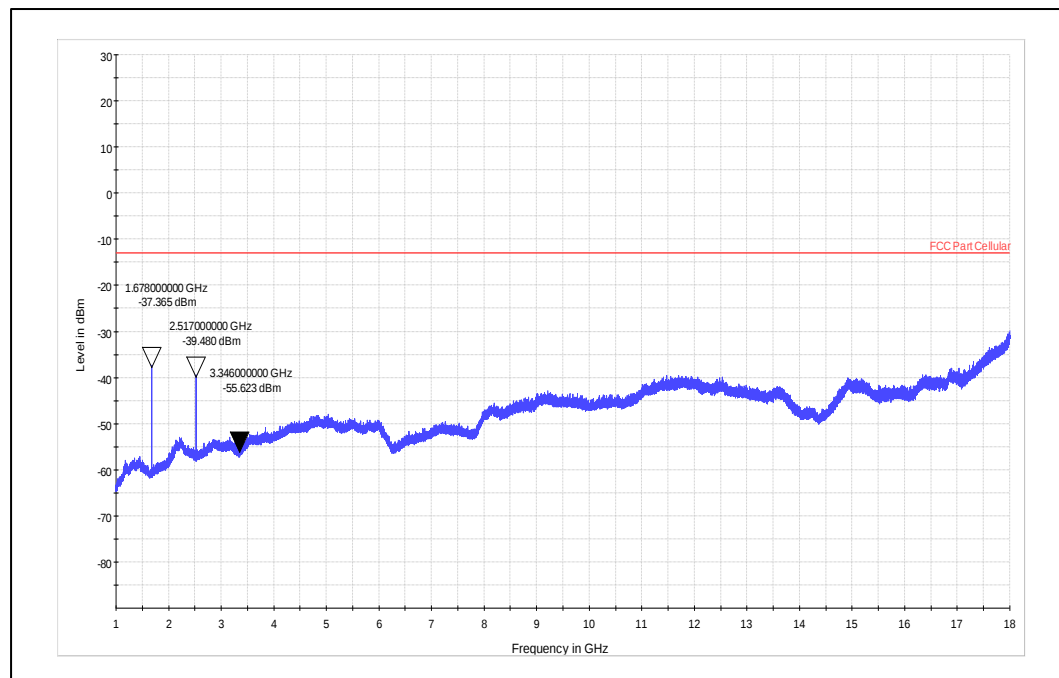
**LTE Band 5**

**Channel Frequency: 836.5MHz\_16QAM**



**Frequency Range: 1GHz-18GHz**

**Polarization: Vertical**

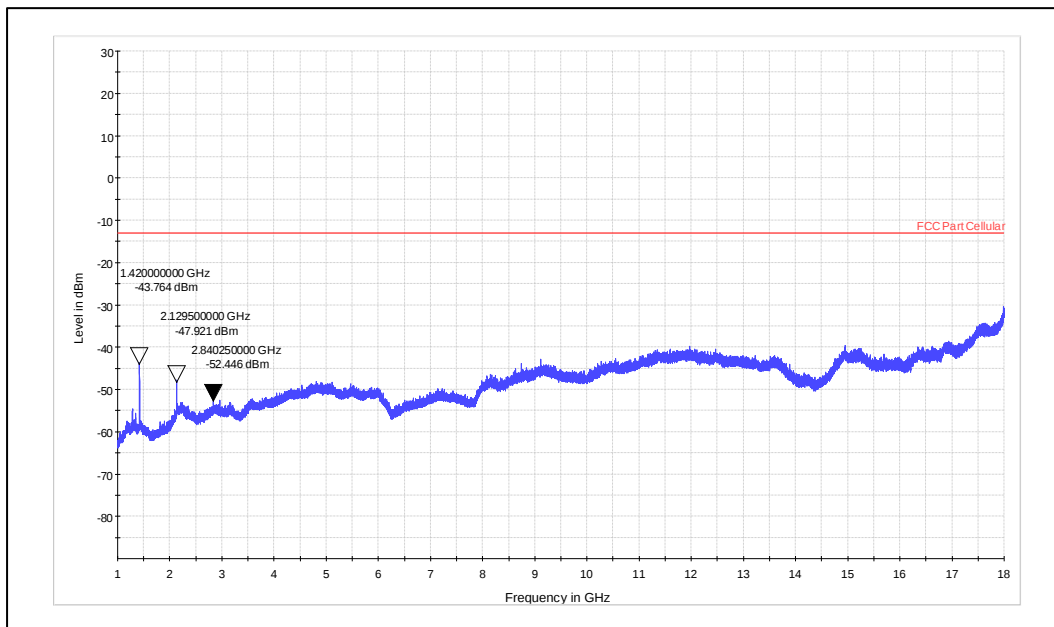


**Frequency Range: 1GHz-18GHz**

**Polarization: Horizontal**

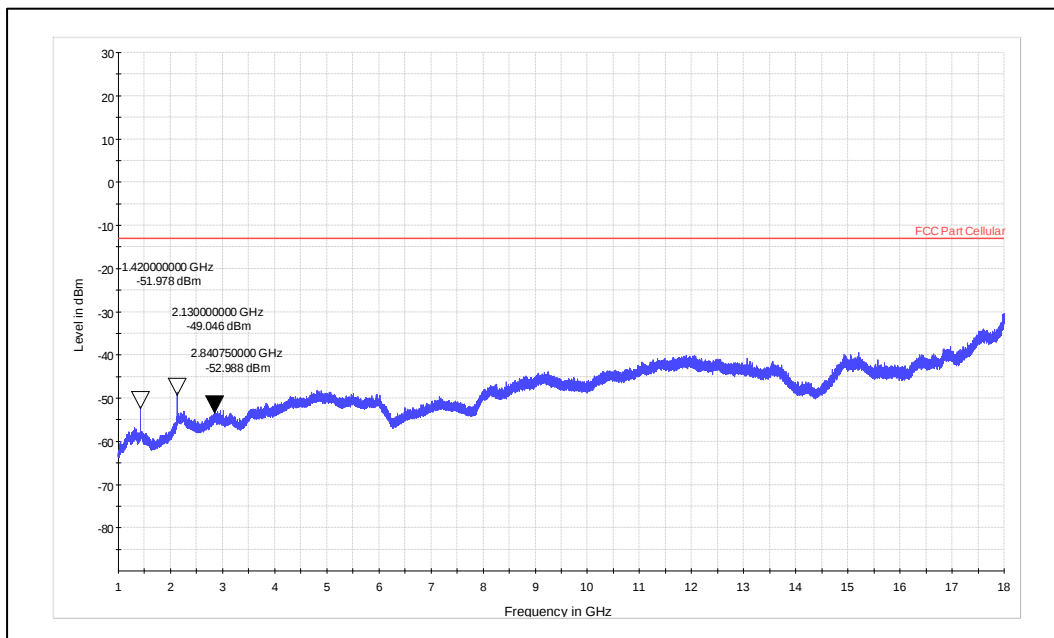
**LTE Band 12**

**Channel Frequency: 707.5MHz\_QPSK**



**Frequency Range: 1GHz-18GHz**

**Polarization: Vertical**



**Frequency Range: 1GHz-18GHz**

**Polarization: Horizontal**

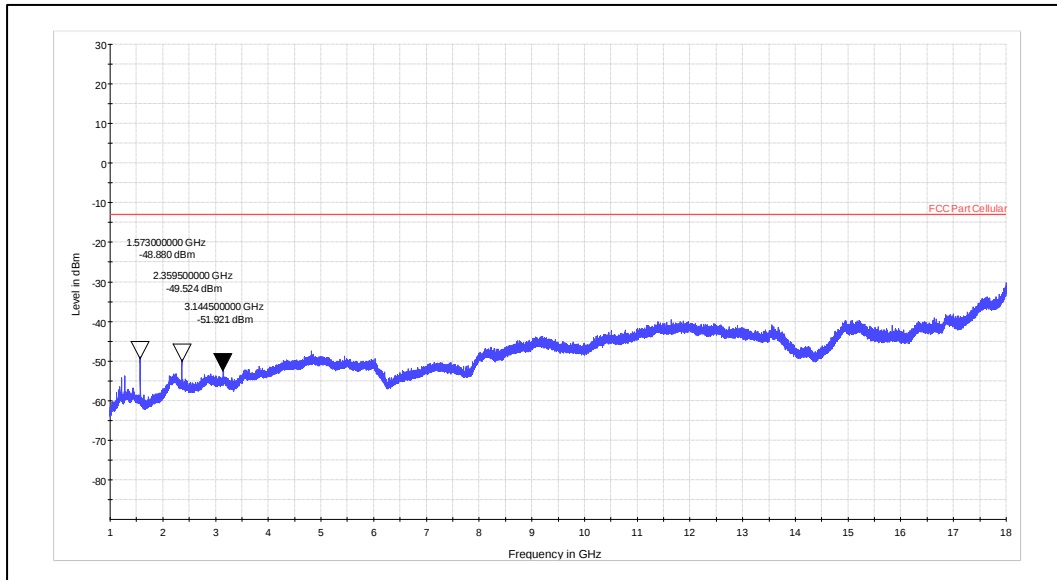
**Prüfbericht - Nr.:**  
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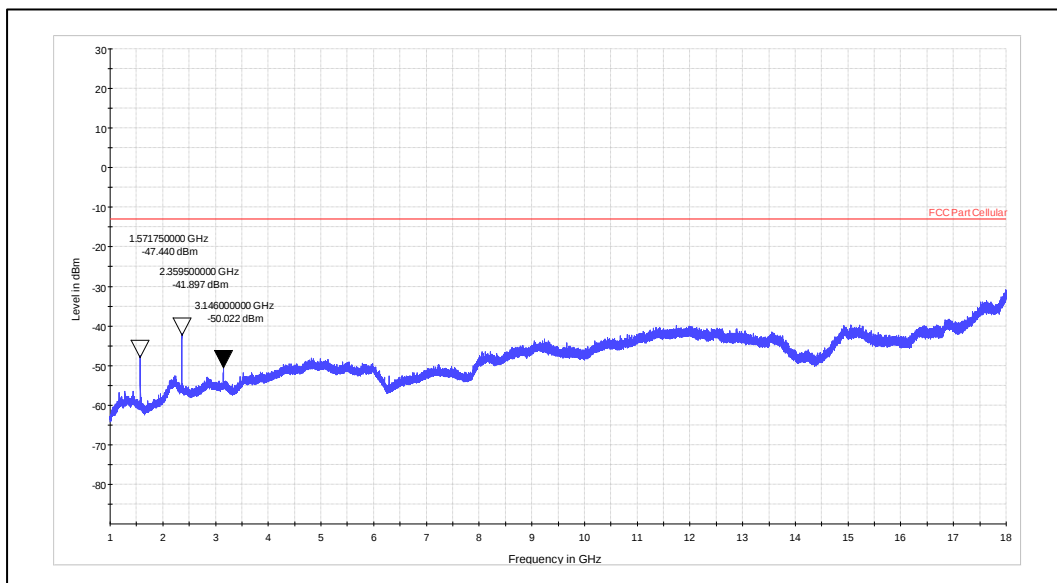
**LTE Band 13**

**Channel Frequency: 784.4MHz\_QPSK**



**Frequency Range: 1GHz-18GHz**

**Polarization: Vertical**

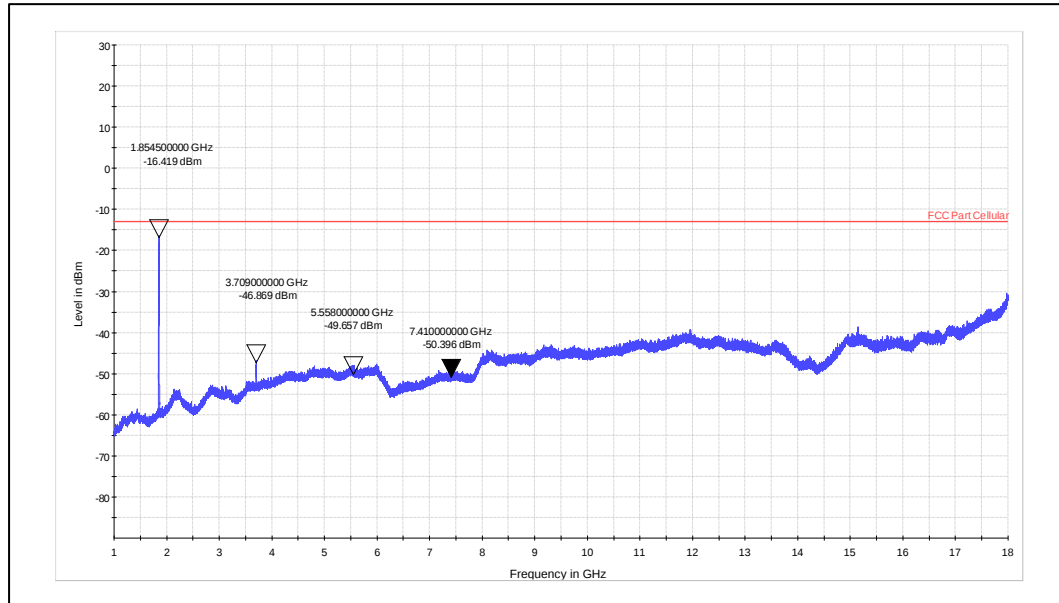


**Frequency Range: 1GHz-18GHz**

**Polarization: Horizontal**

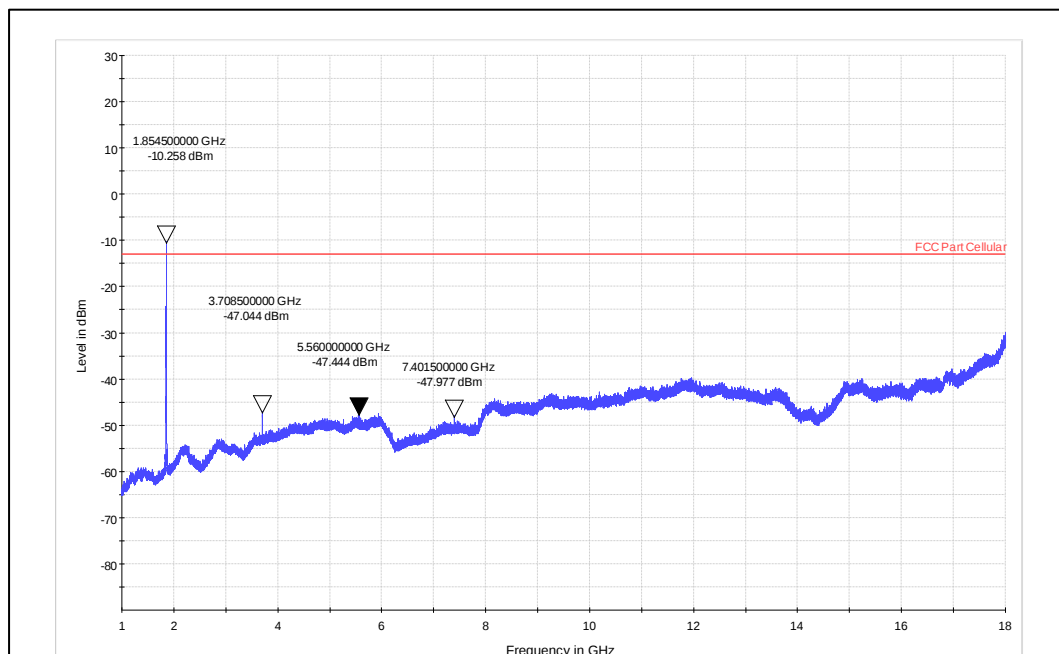
**LTE Band 25**

**Channel Frequency: 1882.5MHz\_16QAM**



**Frequency Range: 1GHz-18GHz**

**Polarization: Vertical**

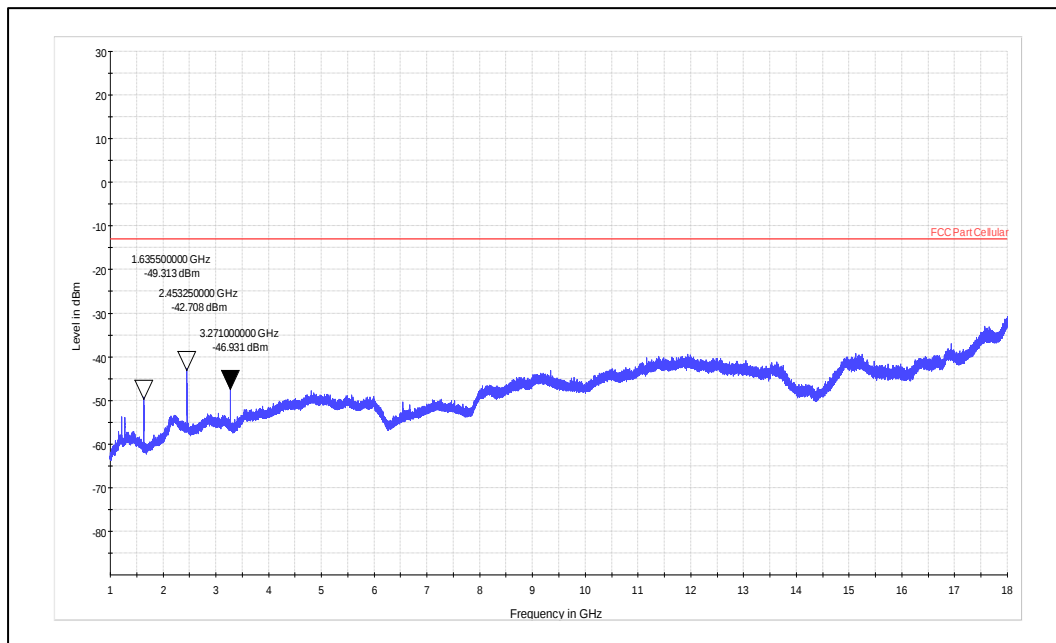


**Frequency Range: 1GHz-18GHz**

**Polarization: Horizontal**

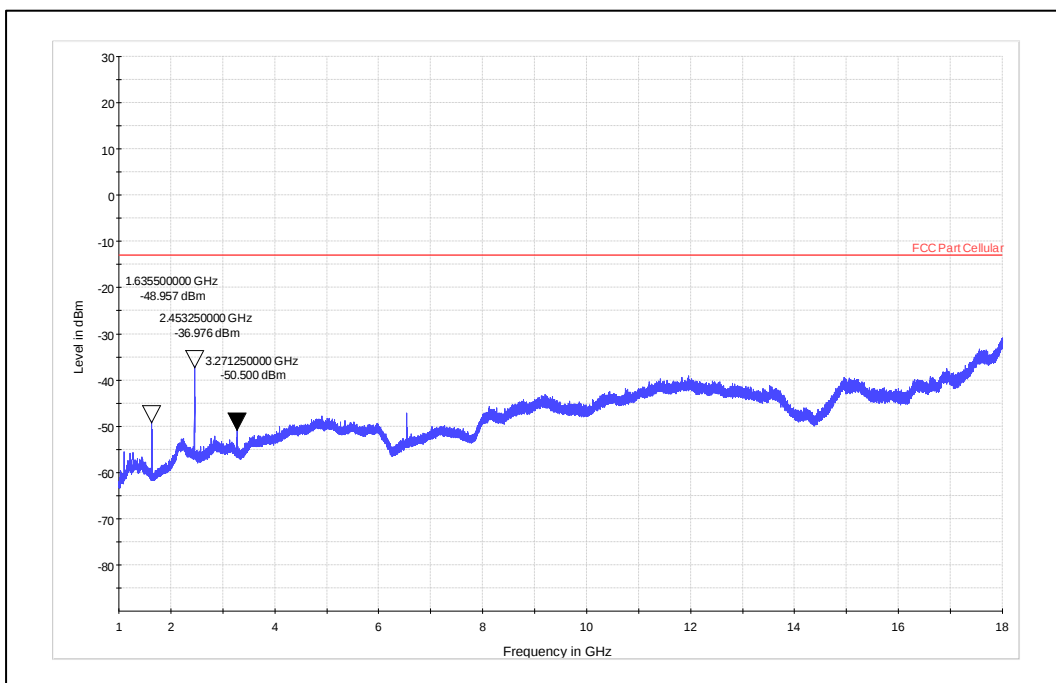
**LTE Band 26**

**Channel Frequency: 816.5MHz\_16QAM**



**Frequency Range: 1GHz-18GHz**

**Polarization: Vertical**

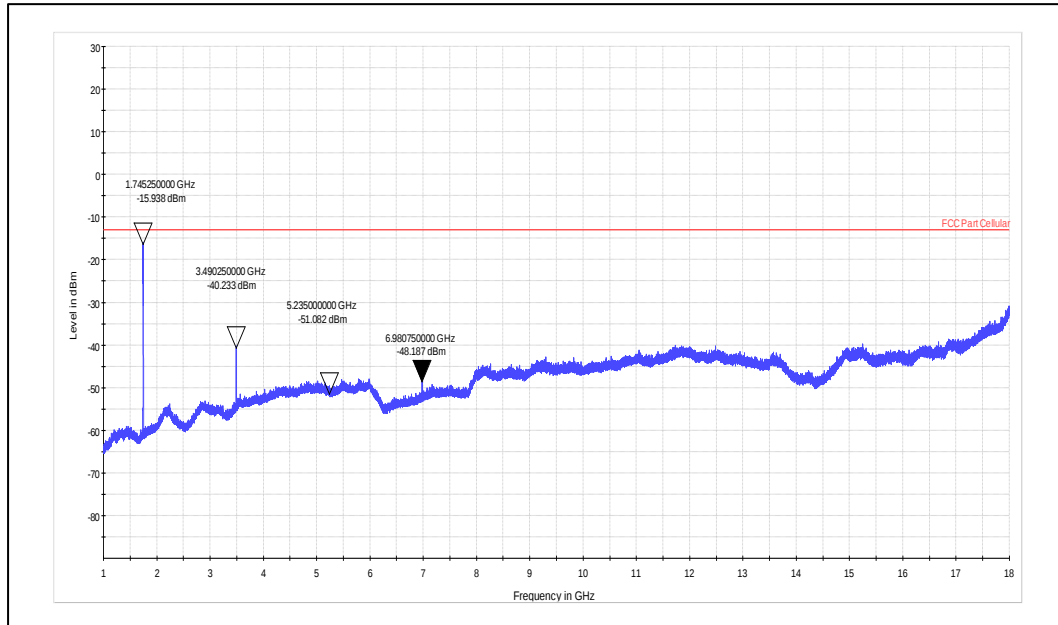


**Frequency Range: 1GHz-18GHz**

**Polarization: Horizontal**

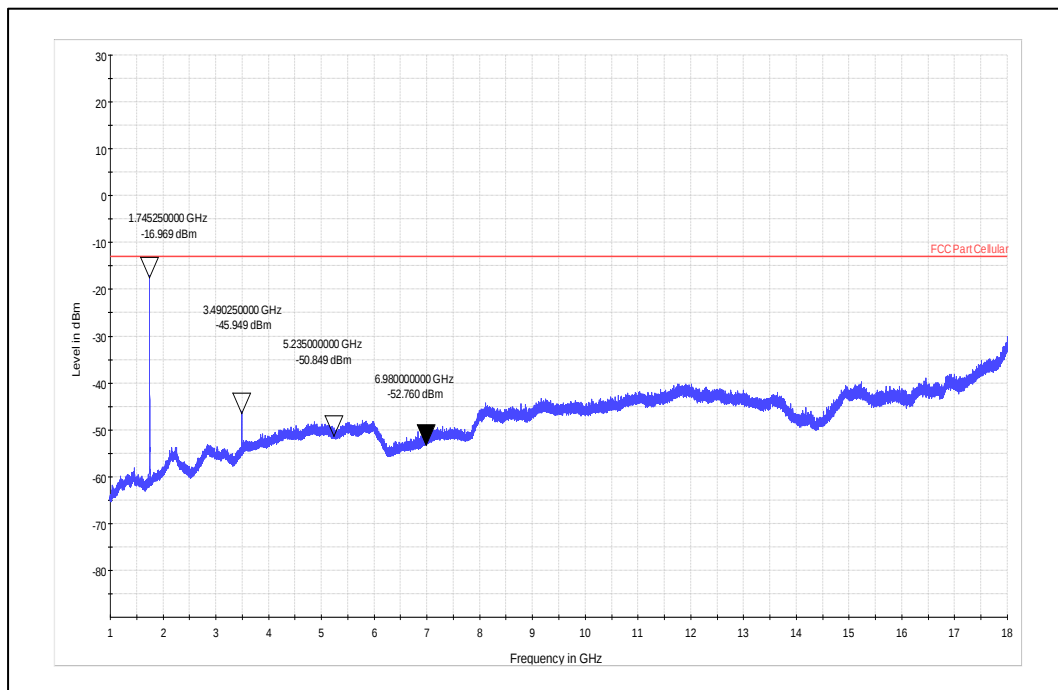
**LTE Band 66**

**Channel Frequency: 1745MHz\_QPSK**



**Frequency Range: 1GHz-18GHz**

**Polarization: Vertical**



**Frequency Range: 1GHz-18GHz**

**Polarization: Horizontal**

**Prüfbericht - Nr.:**

Test Report No.:

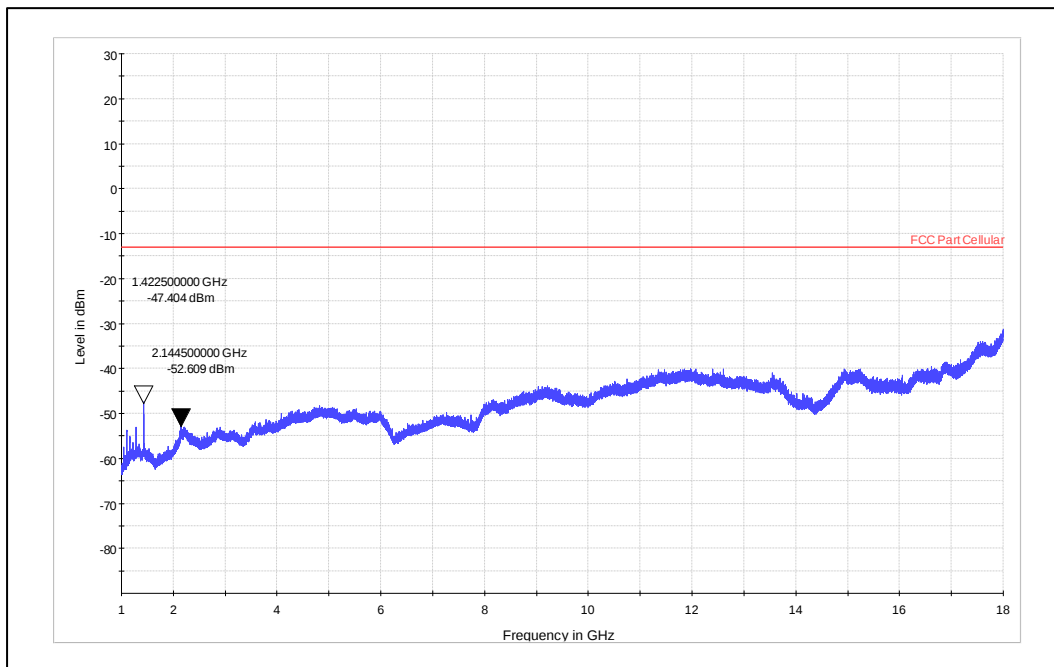
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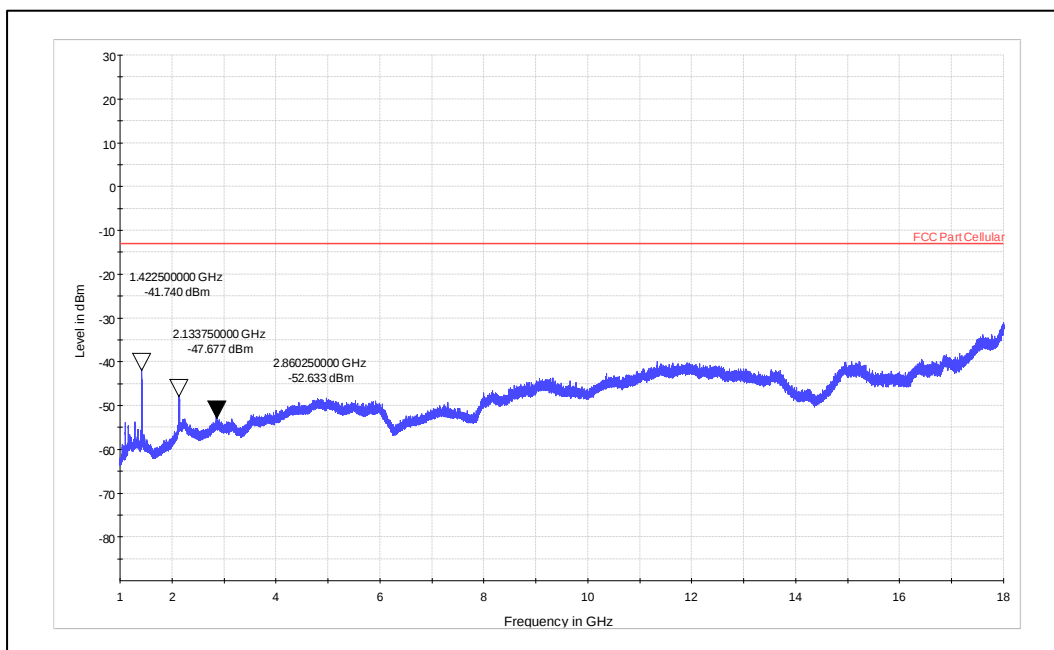
**LTE Band 85**

**Channel Frequency: 713.5MHz\_QPSK**



**Frequency Range: 1GHz-18GHz**

**Polarization: Vertical**



**Frequency Range: 1GHz-18GHz**

**Polarization: Horizontal**

**Prüfbericht - Nr.:**  
*Test Report No.:*

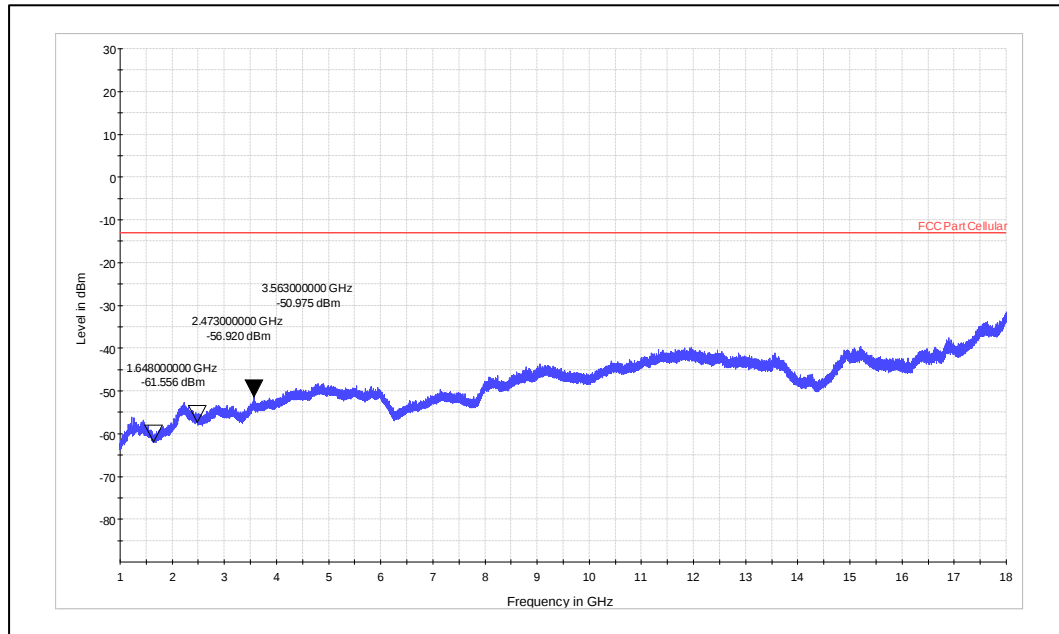
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**GSM Worst Case Plots**

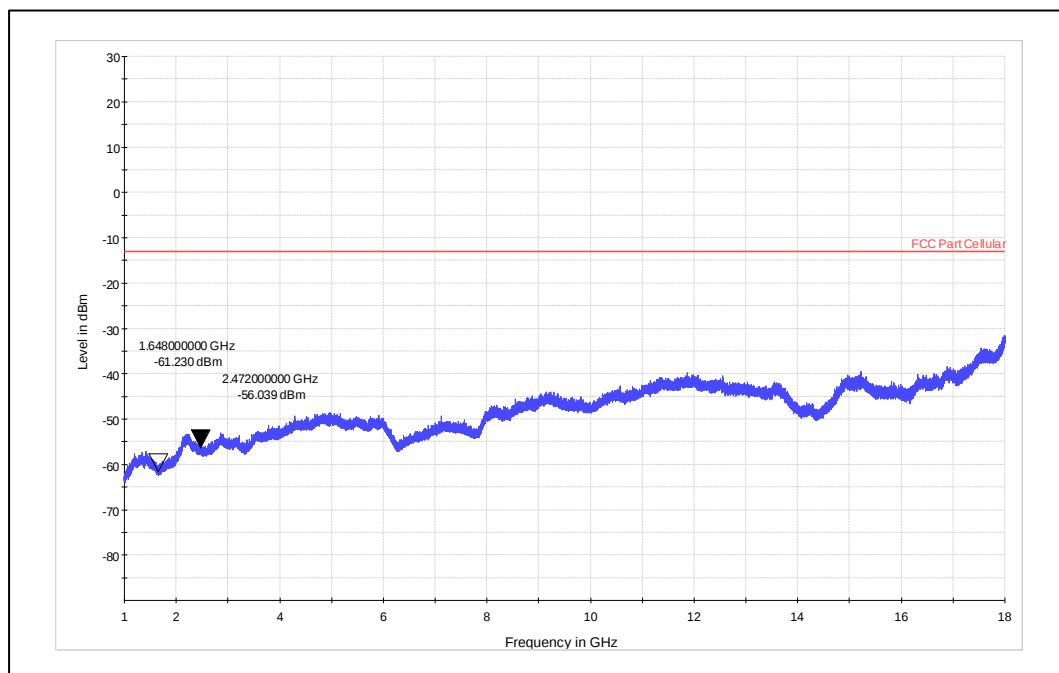
**GSM-1900 EGPRS**

**Channell Frequency: 824.2MHz**



**Frequency Range: 1GHz-18GHz**

**Polarization: Vertical**

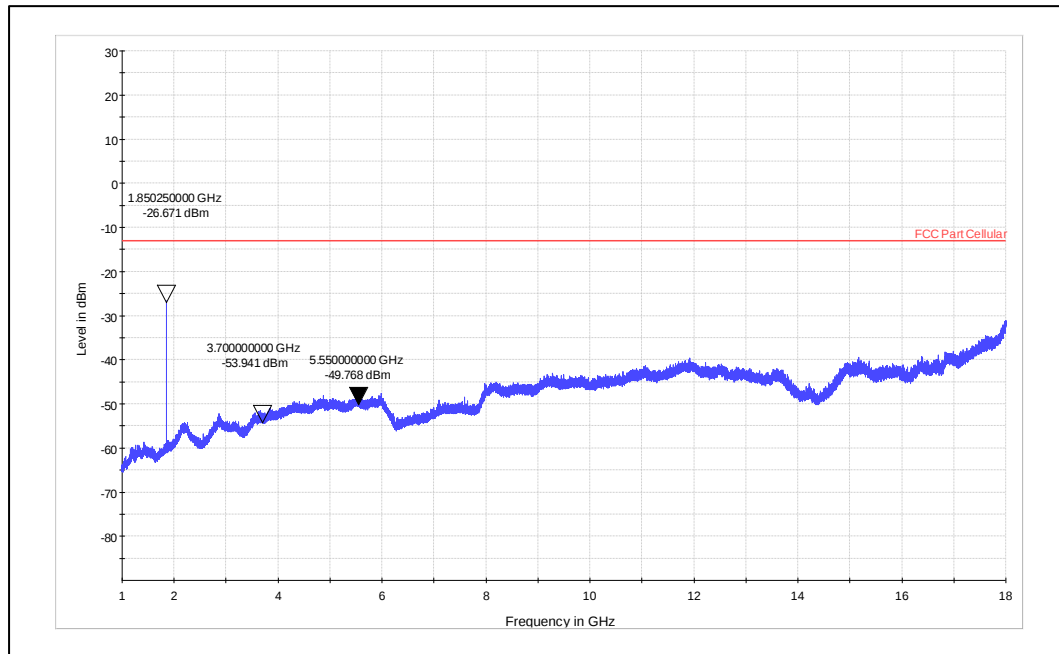


**Frequency Range: 1GHz-18GHz**

**Polarization: Horizontal**

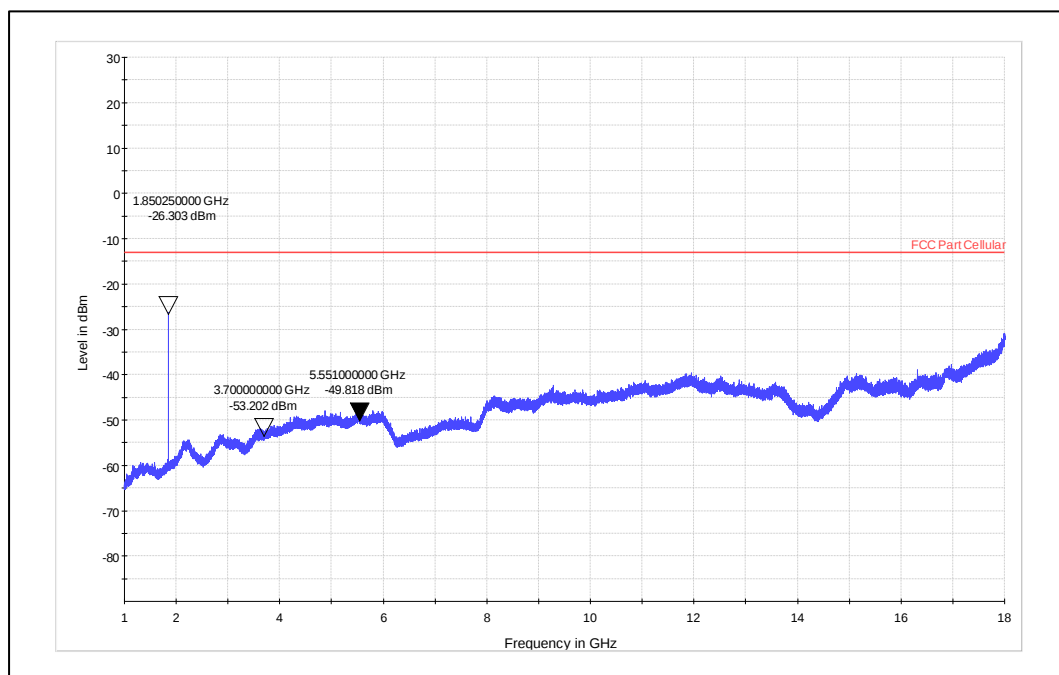
**GSM-1900 EGPRS Worst Case Plots**

**Channel Frequency: 1850.2MHz**



**Frequency Range: 1GHz-18GHz**

**Polarization: Vertical**



**Frequency Range: 1GHz-18GHz**

**Polarization: Horizontal**

**Prüfbericht - Nr.:**  
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## 8 CONDUCTED SPURIOUS EMISSION TEST ON AC POWER LINE

**Result**

**Pass**

Test Specification : FCC Part 15 Section 15.207 / RSS Gen Issue 5 Section 8.8  
Test Method : ANSI C 63.10-2013  
Testing Location : Screened room  
Measurement Bandwidth : 9kHz  
Frequency Range : 150kHz – 30MHz  
Supply Voltage : 110VAC,60Hz  
Test Method : Reffer TEST METHODOLOGY

**\*Note: The product has tested with AC to DC adapter**

**Limits of section 15.207**

| Frequency of emission<br>(MHz) | QP Limit<br>(dB $\mu$ V) | AV Limit<br>(dB $\mu$ V/m) |
|--------------------------------|--------------------------|----------------------------|
| 0.15 – 0.5                     | 66 – 56*                 | 56 – 46*                   |
| 0.5 – 5                        | 56                       | 46                         |
| 5 – 30                         | 60                       | 50                         |

\* Decreases with the logarithm of the frequency

**Test Conditions:**

Normal Temperature = +24°C

Voltage (V norm) = 110V AC 60Hz

Relative Humidity = 64%

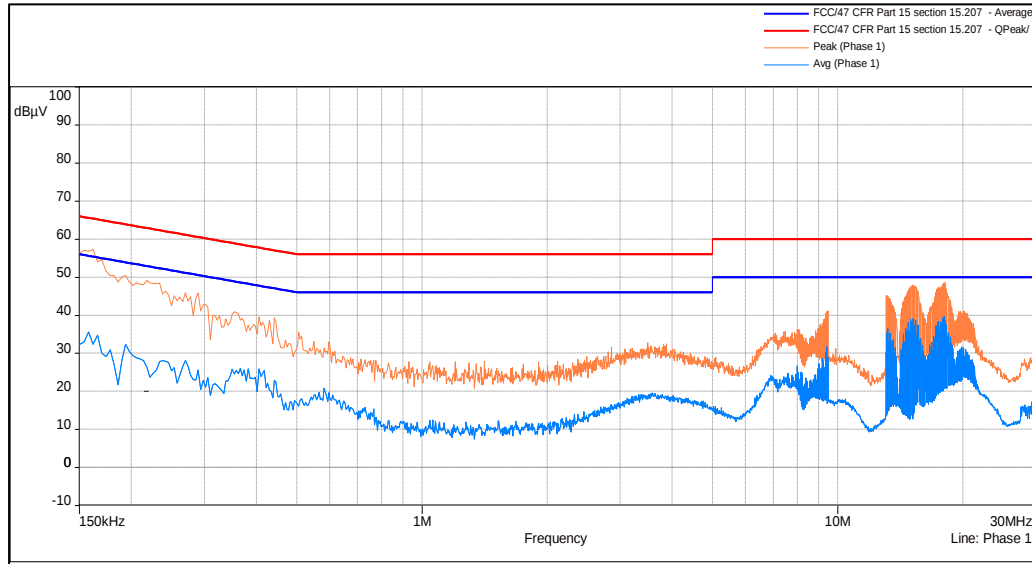
**Prüfbericht - Nr.:**  
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## Test Result:

**Power: 110V 60Hz\_LINE**



**Line Graph**

## Quasipeak:-

| Frequency (MHz) | Level (dBμV) | Limit (dBμV) | Margin (dB) | Pos     | Comments | Correction (dB) |
|-----------------|--------------|--------------|-------------|---------|----------|-----------------|
| 0.15225         | 52.57        | 65.78        | -13.21      | Phase 1 | Pass     | 19.89           |
| 0.17465         | 48.17        | 64.77        | -16.59      | Phase 1 | Pass     | 19.88           |
| 9.47715         | 40.5         | 60           | -19.5       | Phase 1 | Pass     | 20.07           |
| 18.09975        | 40.32        | 60           | -19.68      | Phase 1 | Pass     | 20.27           |
| 15.1237         | 40.08        | 60           | -19.92      | Phase 1 | Pass     | 20.21           |
| 0.2783          | 39.58        | 60.88        | -21.3       | Phase 1 | Pass     | 19.86           |
| 13.096          | 38.44        | 60           | -21.56      | Phase 1 | Pass     | 20.16           |
| 0.424           | 33.74        | 57.41        | -23.67      | Phase 1 | Pass     | 19.88           |

**Line Table**

## Average:-

| Frequency (MHz) | Level (dBμV) | Limit (dBμV) | Margin (dB) | Pos     | Comments | Correction (dB) |
|-----------------|--------------|--------------|-------------|---------|----------|-----------------|
| 0.15225         | 32.3         | 55.78        | -23.48      | Phase 1 | Pass     | 19.89           |
| 0.424           | 22.81        | 47.41        | -24.59      | Phase 1 | Pass     | 19.88           |
| 0.2783          | 25.48        | 50.88        | -25.4       | Phase 1 | Pass     | 19.86           |
| 0.17465         | 29.04        | 54.77        | -25.73      | Phase 1 | Pass     | 19.88           |
| 18.09975        | 23.93        | 50           | -26.07      | Phase 1 | Pass     | 20.27           |
| 9.47715         | 21.57        | 50           | -28.43      | Phase 1 | Pass     | 20.07           |
| 13.096          | 20.69        | 50           | -29.31      | Phase 1 | Pass     | 20.16           |
| 15.1237         | 20.66        | 50           | -29.34      | Phase 1 | Pass     | 20.21           |

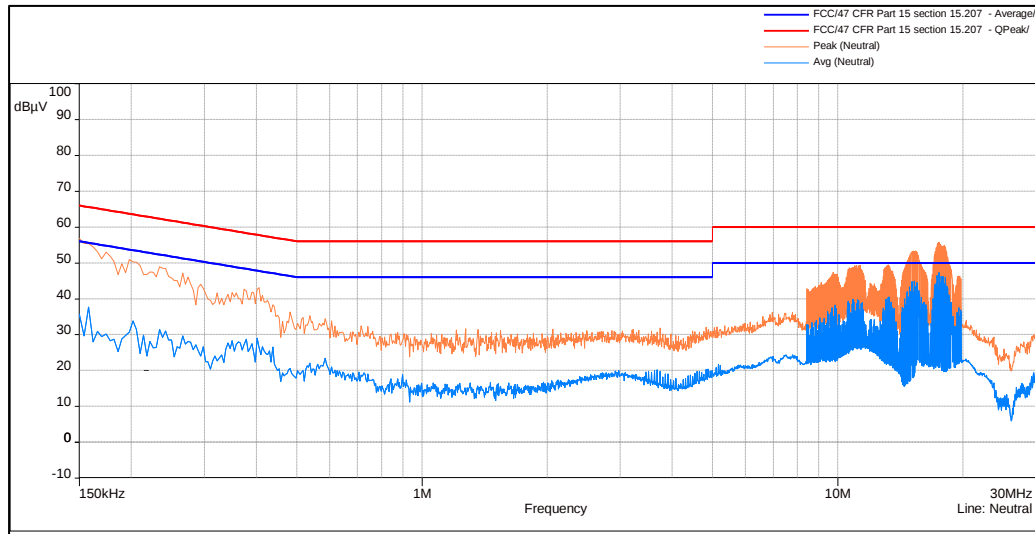
**Line Table**

**Prüfbericht - Nr.:**  
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**Power: 110V 60Hz\_NEUTRAL**



**Neutral Graph**

**Quasipeak:-**

| Frequency (MHz) | Level (dBμV) | Limit (dBμV) | Margin (dB) | Pos     | Comments | Correction (dB) |
|-----------------|--------------|--------------|-------------|---------|----------|-----------------|
| 0.15225         | 52.7         | 65.78        | -13.08      | Neutral | Pass     | 19.87           |
| 15.21085        | 45.23        | 60           | -14.77      | Neutral | Pass     | 20.03           |
| 13.23195        | 42.77        | 60           | -17.23      | Neutral | Pass     | 19.98           |
| 0.1944          | 46.55        | 63.86        | -17.31      | Neutral | Pass     | 19.83           |
| 11.28295        | 42.13        | 60           | -17.87      | Neutral | Pass     | 19.93           |
| 9.74825         | 39.62        | 60           | -20.38      | Neutral | Pass     | 19.9            |
| 0.3979          | 37.25        | 57.9         | -20.64      | Neutral | Pass     | 19.77           |
| 17.48265        | 25.74        | 60           | -34.26      | Neutral | Pass     | 20.08           |

**Neutral Table**

**Average:-**

| Frequency (MHz) | Level (dBμV) | Limit (dBμV) | Margin (dB) | Pos     | Comments | Correction (dB) |
|-----------------|--------------|--------------|-------------|---------|----------|-----------------|
| 11.28295        | 28.52        | 50           | -21.48      | Neutral | Pass     | 19.93           |
| 0.3979          | 25.77        | 47.9         | -22.13      | Neutral | Pass     | 19.77           |
| 13.23195        | 26.92        | 50           | -23.08      | Neutral | Pass     | 19.98           |
| 0.15225         | 32.37        | 55.78        | -23.41      | Neutral | Pass     | 19.87           |
| 0.1944          | 30.01        | 53.86        | -23.86      | Neutral | Pass     | 19.83           |
| 9.74825         | 24.89        | 50           | -25.11      | Neutral | Pass     | 19.9            |
| 17.48265        | 19.77        | 50           | -30.23      | Neutral | Pass     | 20.08           |
| 15.21085        | 17.05        | 50           | -32.95      | Neutral | Pass     | 20.03           |

**Neutral Table**

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