



# FCC RADIO TEST REPORT

FCC ID : B94HNI61PAR  
Equipment : Notebook Computer  
Brand Name : HP  
Model Name : HSN-I61C  
Applicant : HP Inc.  
1501 Page Mill Road, Palo Alto CA 94304 USA  
Standard : FCC 47 CFR Part 2, 22(H), 24(E), 27, Part 90(R), Part 90(S)

The product was received on Sep. 09, 2024 and testing was performed from Sep. 28, 2024 to Nov. 06, 2024. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The test results in this partial report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

**Sporton International Inc. EMC & Wireless Communications Laboratory**

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



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## History of this test report

| Report No. | Version | Description             | Issue Date    |
|------------|---------|-------------------------|---------------|
| FG490505B  | 01      | Initial issue of report | Nov. 20, 2024 |
|            |         |                         |               |
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|            |         |                         |               |

## Summary of Test Result

| Report Clause | Ref Std. Clause                                                                       | Test Items                                                                                                                      | Result (PASS/FAIL) | Remark   |
|---------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--------------------|----------|
| 3.2           | §2.1046                                                                               | Conducted Output Power                                                                                                          | Pass               | -        |
|               | §22.913 (a)(5)<br>§90.635                                                             | Effective Radiated Power<br>(Band 5) (Band 26)                                                                                  | Pass               |          |
|               | §27.50 (b)(10)<br>§27.50 (c)(10)                                                      | Effective Radiated Power<br>(Band 12) (Band 13) (Band 85)                                                                       |                    |          |
|               | §24.232 (c)                                                                           | Equivalent Isotropic Radiated Power<br>(Band 2) (Band 25)                                                                       |                    |          |
|               | §27.50 (d)(4)                                                                         | Equivalent Isotropic Radiated Power<br>(Band 4) (Band 66)                                                                       |                    |          |
|               | §90.542 (a)(7)                                                                        | Effective Radiated Power<br>(Band 14)                                                                                           |                    |          |
| -             | §24.232 (d)<br>§27.50 (d)(5)                                                          | Peak-to-Average Ratio                                                                                                           | Pass               | See Note |
| -             | §2.1049                                                                               | Occupied Bandwidth                                                                                                              | Pass               | See Note |
| -             | §2.1051<br>§22.917 (a)<br>§24.238 (a)<br>§27.53 (c)(2)(4)<br>§27.53 (g)<br>§27.53 (h) | Conducted Band Edge Measurement<br>(Band 2) (Band 4) (Band 5)<br>(Band 12) (Band 13) (Band 25)<br>(Band 26) (Band 66) (Band 85) | Pass               | See Note |
|               | §2.1051<br>§90.543 (e)(2)                                                             | Conducted Band Edge Measuremen<br>(Band 14)                                                                                     |                    |          |
| -             | §2.1051<br>§90.210 (n)                                                                | Emission Mask<br>(Band 14)                                                                                                      | Pass               | See Note |
|               | §2.1051<br>§90.691                                                                    | Emission masks<br>(Band 26)                                                                                                     |                    |          |



| Report Clause | Ref Std. Clause                                                                                             | Test Items                                                                                                                  | Result (PASS/FAIL) | Remark                                       |
|---------------|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------------------------|
| -             | §2.1051<br>§22.917 (a)<br>§24.238 (a)<br>§27.53 (c)(2)<br>§27.53 (g)<br>§27.53 (h)<br>§90.691               | Conducted Spurious Emission<br>(Band 2) (Band 4) (Band 5)<br>(Band 12) (Band 13) (Band 25)<br>(Band 26) (Band 66) (Band 85) | Pass               | See Note                                     |
|               | §2.1051<br>§90.543 (e)(3)                                                                                   | Conducted Spurious Emission<br>(Band 14)                                                                                    |                    |                                              |
| -             | §2.1055<br>§22.355<br>§24.235<br>§27.54<br>§90.539 (e)<br>§90.213                                           | Frequency Stability<br>Temperature & Voltage                                                                                | Pass               | See Note                                     |
| 4.2           | §2.1053<br>§22.917 (a)<br>§24.238 (a)<br>§27.53 (c)(2)<br>§27.53 (f)<br>§27.53 (g)<br>§27.53 (h)<br>§90.691 | Radiated Spurious Emission<br>(Band 2) (Band 4) (Band 5)<br>(Band 12) (Band 13) (Band 25)<br>(Band 26) (Band 66) (Band 85)  | Pass               | 1.90 dB<br>under the limit at<br>2352.00 MHz |
|               | §2.1053<br>§90.543 (e)(3)<br>§90.543 (f)                                                                    | Radiated Spurious Emission<br>(Band 14)                                                                                     |                    |                                              |

**Remark:**

- For host device, Radiated Spurious Emission, Effective Radiated Power and Equivalent Isotropic Radiated Power are verified and complies with the limit in this test report.
- For host device, the Conducted Output Power is no difference after compared to module (Model: TX520-GL)

**Conformity Assessment Condition:**

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

**Disclaimer:**

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

**Reviewed by: Sheng Kuo****Report Producer: Michelle Chen**



# 1 General Description

## 1.1 Product Feature of Equipment Under Test

| Product Feature        |                                                                                                                                                                      |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General Specs          | GSM/LTE, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ax/be, Wi-Fi 5GHz 802.11a/n/ac/ax/be, Wi-Fi 6GHz 802.11ax/be, NFC, and GNSS                                             |
| Sample 1               | EUT with Vendor 2 Antenna                                                                                                                                            |
| Sample 2               | EUT with Vendor 1 Antenna                                                                                                                                            |
| Integrated WWAN Module | Brand Name: Rolling Wireless<br>Model Name: TX520-GL<br>FCC ID: 2BF7TTX520GL                                                                                         |
| Integrated WLAN Module | Brand Name: Intel<br>Model Name: BE201NGW<br>FCC ID: PD9BE201NG                                                                                                      |
| Integrated NFC Module  | Brand Name: WNC<br>Model Name: XRAV-1<br>FCC ID: NKR-XRAV1                                                                                                           |
| Antenna Type           | WWAN: PIFA Antenna<br>WLAN:<br><Main>: PIFA Antenna<br><Aux.>: PIFA Antenna<br>Bluetooth: PIFA Antenna<br>GPS/Glonass/BDS/Galileo: PIFA Antenna<br>NFC: Loop Antenna |

| Support band and evaluated information |                                                                                                                |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Supported band                         | B2, B4, B5, B12, B13, B14, B25, B26, B66, B85                                                                  |
| Evaluated and Tested band              | B2, B4, B5, B12, B13, B14, B25, B26, B66, B85                                                                  |
| Band covered information               | Wider operating frequency band range covers narrower one when the power is worse as follows:<br>■ B26 cover B5 |
| Ant5 Antenna                           | B2, B4, B5, B12, B13, B14, B25, B26, B66, B85                                                                  |

| WWAN Antenna Information for Notebook Mode |              |                                 |                 |                                                                                                                                                                                                                               |
|--------------------------------------------|--------------|---------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Antenna 5                                  | Manufacturer | Vendor 2                        | Peak gain (dBi) | LTE Band 2 : 0.43<br>LTE Band 4 : -1.13<br>LTE Band 5 : -2.74<br>LTE Band 12 : -0.62<br>LTE Band 13 : -1.43<br>LTE Band 14 : -2.55<br>LTE Band 25 : 0.43<br>LTE Band 26 : -2.71<br>LTE Band 66 : -1.13<br>LTE Band 85 : -0.62 |
|                                            | Part number  | 6036B0361301<br>(81ELBF15.G04)  | Type            | PIFA                                                                                                                                                                                                                          |
|                                            | Manufacturer | Vendor 1                        | Peak gain (dBi) | LTE Band 2 : -0.50<br>LTE Band 4 : -0.28<br>LTE Band 5 : 0.71<br>LTE Band 12 : 0.47<br>LTE Band 13 : 1.45<br>LTE Band 14 : 1.43<br>LTE Band 25 : -0.50<br>LTE Band 26 : 0.47<br>LTE Band 66 : 0.08<br>LTE Band 85 : 0.46      |
|                                            | Part number  | 6036B0361401<br>(00-350270155N) | Type            | PIFA                                                                                                                                                                                                                          |

| WWAN Antenna Information for Tablet Mode |              |                                 |                 |                                                                                                                                                                                                                                 |
|------------------------------------------|--------------|---------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Antenna 5                                | Manufacturer | Vendor 2                        | Peak gain (dBi) | LTE Band 2 : -1.32<br>LTE Band 4 : -2.68<br>LTE Band 5 : -4.14<br>LTE Band 12 : -5.88<br>LTE Band 13 : -4.25<br>LTE Band 14 : -5.14<br>LTE Band 25 : -1.32<br>LTE Band 26 : -4.14<br>LTE Band 66 : -2.68<br>LTE Band 85 : -5.88 |
|                                          | Part number  | 6036B0361301<br>(81ELBF15.G04)  | Type            | PIFA                                                                                                                                                                                                                            |
|                                          | Manufacturer | Vendor 1                        | Peak gain (dBi) | LTE Band 2 : -1.68<br>LTE Band 4 : -1.88<br>LTE Band 5 : -3.33<br>LTE Band 12 : -4.67<br>LTE Band 13 : -4.66<br>LTE Band 14 : -4.66<br>LTE Band 25 : -1.68<br>LTE Band 26 : -3.87<br>LTE Band 66 : -1.87<br>LTE Band 85 : -4.67 |
|                                          | Part number  | 6036B0361401<br>(00-350270155N) | Type            | PIFA                                                                                                                                                                                                                            |

**Remark:** The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.



## 1.2 Modification of EUT

No modifications made to the EUT during the testing.

## 1.3 Testing Location

|                       |                                                                                                                        |                                   |
|-----------------------|------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| Test Site             | Sporton International Inc. EMC & Wireless Communications Laboratory                                                    |                                   |
| Test Site Location    | No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)<br>TEL: +886-3-327-3456<br>FAX: +886-3-328-4978 |                                   |
| Test Site No.         | Sporton Site No.                                                                                                       |                                   |
|                       | TH03-HY                                                                                                                | 03CH07-HY                         |
| Test Engineer         | Chris Chiu                                                                                                             | Jesse Wang, Stan Hsieh and Ken Wu |
| Temperature (°C)      | 22.3~22.9                                                                                                              | 22.1~26.3                         |
| Relative Humidity (%) | 52.3~55.5                                                                                                              | 53.4~65.8                         |

**Note:** The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: TW1190

## 1.4 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ ANSI C63.26-2015
- ♦ ANSI / TIA-603-E
- ♦ FCC 47 CFR Part 2, 22(H), 24(E), 27, Part 90(R), Part 90(S)
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.

### Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.





## 2 Test Configuration of Equipment Under Test

### 2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in Tablet Type (three orthogonal axis (X: flat, Y: portrait, Z: landscape)) and Notebook Type, and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and only the worst case emissions were reported in this report.

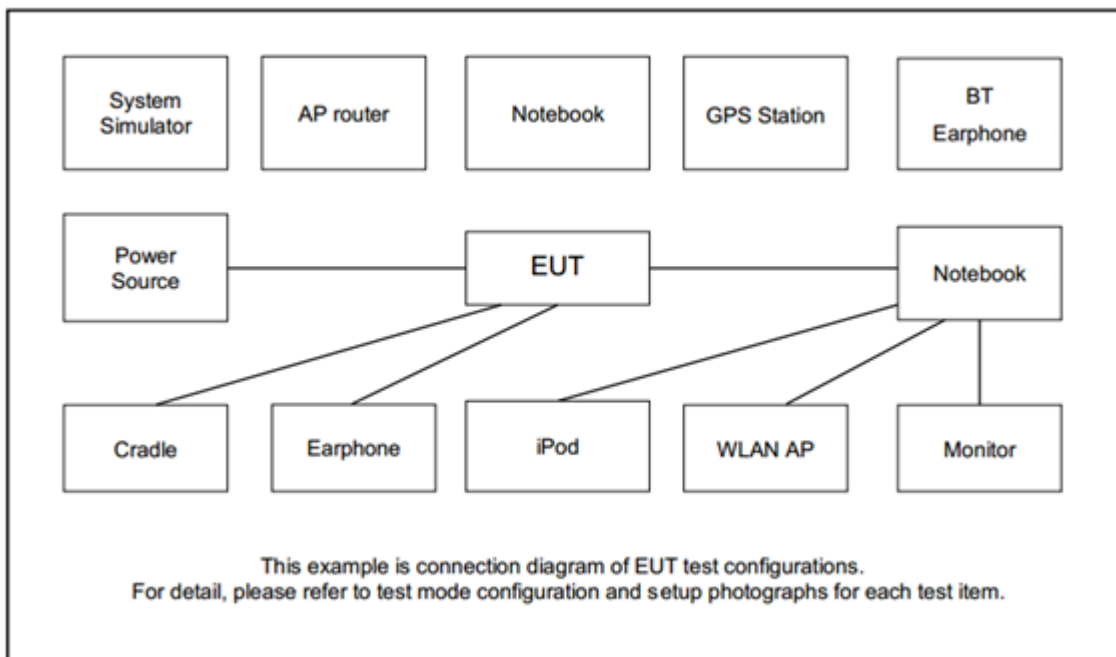
| Modulation Type | Modulation |
|-----------------|------------|
| A               | QPSK       |
| B               | 16QAM      |

| Test Item       | Modulation Type | Bandwidth      | RB Size       | Channel |
|-----------------|-----------------|----------------|---------------|---------|
| Conducted Power | A, B            | All            | 1, Half, Full | L, M, H |
| EIRP            | A, B            | All            | 1, Half, Full | L, M, H |
| RSE             | A               | 20 MHz or less | 1RB           | L, M, H |

**Remark:**

1. Evaluated all the transmitter signal and reporting worst-case configuration among all modulation types.
2. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst-case emissions are reported.
3. During the RSE preliminary test, the standalone mode and charging modes were verified. It is determined that the charging modes is the worst case for the official test.

## 2.2 Connection Diagram of Test System



## 2.3 Support Unit used in test configuration and system

| Item | Equipment        | Brand Name | Model No. | FCC ID       | Data Cable      | Power Cord        |
|------|------------------|------------|-----------|--------------|-----------------|-------------------|
| 1.   | System Simulator | Anritsu    | MT8821C   | N/A          | N/A             | Unshielded, 1.8 m |
| 2.   | iPod Earphone    | Apple      | N/A       | Verification | Shielded, 1.2 m | N/A               |



## 2.4 Frequency List of Low/Middle/High Channels

| LTE Band 2 Channel and Frequency List |                        |        |        |         |
|---------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                              | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                    | Channel                | 18700  | 18900  | 19100   |
|                                       | Frequency              | 1860   | 1880   | 1900    |
| 15                                    | Channel                | 18675  | 18900  | 19125   |
|                                       | Frequency              | 1857.5 | 1880   | 1902.5  |
| 10                                    | Channel                | 18650  | 18900  | 19150   |
|                                       | Frequency              | 1855   | 1880   | 1905    |
| 5                                     | Channel                | 18625  | 18900  | 19175   |
|                                       | Frequency              | 1852.5 | 1880   | 1907.5  |
| 3                                     | Channel                | 18615  | 18900  | 19185   |
|                                       | Frequency              | 1851.5 | 1880   | 1908.5  |
| 1.4                                   | Channel                | 18607  | 18900  | 19193   |
|                                       | Frequency              | 1850.7 | 1880   | 1909.3  |

| LTE Band 4 Channel and Frequency List |                        |        |        |         |
|---------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                              | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                    | Channel                | 20050  | 20175  | 20300   |
|                                       | Frequency              | 1720   | 1732.5 | 1745    |
| 15                                    | Channel                | 20025  | 20175  | 20325   |
|                                       | Frequency              | 1717.5 | 1732.5 | 1747.5  |
| 10                                    | Channel                | 20000  | 20175  | 20350   |
|                                       | Frequency              | 1715   | 1732.5 | 1750    |
| 5                                     | Channel                | 19975  | 20175  | 20375   |
|                                       | Frequency              | 1712.5 | 1732.5 | 1752.5  |
| 3                                     | Channel                | 19965  | 20175  | 20385   |
|                                       | Frequency              | 1711.5 | 1732.5 | 1753.5  |
| 1.4                                   | Channel                | 19957  | 20175  | 20393   |
|                                       | Frequency              | 1710.7 | 1732.5 | 1754.3  |



| LTE Band 5 Channel and Frequency List |                        |        |        |         |
|---------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                              | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 10                                    | Channel                | 20450  | 20525  | 20600   |
|                                       | Frequency              | 829    | 836.5  | 844     |
| 5                                     | Channel                | 20425  | 20525  | 20625   |
|                                       | Frequency              | 826.5  | 836.5  | 846.5   |
| 3                                     | Channel                | 20415  | 20525  | 20635   |
|                                       | Frequency              | 825.5  | 836.5  | 847.5   |
| 1.4                                   | Channel                | 20407  | 20525  | 20643   |
|                                       | Frequency              | 824.7  | 836.5  | 848.3   |

| LTE Band 12 Channel and Frequency List |                        |        |        |         |
|----------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 10                                     | Channel                | 23060  | 23095  | 23130   |
|                                        | Frequency              | 704    | 707.5  | 711     |
| 5                                      | Channel                | 23035  | 23095  | 23155   |
|                                        | Frequency              | 701.5  | 707.5  | 713.5   |
| 3                                      | Channel                | 23025  | 23095  | 23165   |
|                                        | Frequency              | 700.5  | 707.5  | 714.5   |
| 1.4                                    | Channel                | 23017  | 23095  | 23173   |
|                                        | Frequency              | 699.7  | 707.5  | 715.3   |



| LTE Band 13 Channel and Frequency List |                        |        |        |         |
|----------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 10                                     | Channel                | -      | 23230  | -       |
|                                        | Frequency              | -      | 782    | -       |
| 5                                      | Channel                | 23205  | 23230  | 23255   |
|                                        | Frequency              | 779.5  | 782    | 784.5   |

| LTE Band 14 Channel and Frequency List |                        |        |        |         |
|----------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 10                                     | Channel                | -      | 23330  | -       |
|                                        | Frequency              | -      | 793    | -       |
| 5                                      | Channel                | 23305  | 23330  | 23355   |
|                                        | Frequency              | 790.5  | 793    | 795.5   |



| LTE Band 25 Channel and Frequency List |                        |        |        |         |
|----------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                     | Channel                | 26140  | 26340  | 26590   |
|                                        | Frequency              | 1860   | 1880   | 1905    |
| 15                                     | Channel                | 26115  | 26340  | 26615   |
|                                        | Frequency              | 1857.5 | 1880   | 1907.5  |
| 10                                     | Channel                | 26090  | 26340  | 26640   |
|                                        | Frequency              | 1855   | 1880   | 1910    |
| 5                                      | Channel                | 26065  | 26340  | 26665   |
|                                        | Frequency              | 1852.5 | 1880   | 1912.5  |
| 3                                      | Channel                | 26055  | 26340  | 26675   |
|                                        | Frequency              | 1851.5 | 1880   | 1913.5  |
| 1.4                                    | Channel                | 26047  | 26340  | 26683   |
|                                        | Frequency              | 1850.7 | 1880   | 1914.3  |



| LTE Band 26 Channel and Frequency List (Part22H) |                        |        |        |         |
|--------------------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                                         | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 15                                               | Channel                | 26865  | 26915  | 26965   |
|                                                  | Frequency              | 831.5  | 836.5  | 841.5   |
| 10                                               | Channel                | 26840  | 26915  | 26990   |
|                                                  | Frequency              | 829.0  | 836.5  | 844.0   |
| 5                                                | Channel                | 26815  | 26915  | 27015   |
|                                                  | Frequency              | 826.5  | 836.5  | 846.5   |
| 3                                                | Channel                | 26805  | 26915  | 27025   |
|                                                  | Frequency              | 825.5  | 836.5  | 847.5   |
| 1.4                                              | Channel                | 26797  | 26915  | 27033   |
|                                                  | Frequency              | 824.7  | 836.5  | 848.3   |

| LTE Band 26 Channel and Frequency List (Part90 S) |                        |        |        |         |
|---------------------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                                          | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 10                                                | Channel                | -      | 26740  | -       |
|                                                   | Frequency              | -      | 819    | -       |
| 5                                                 | Channel                | 26715  | 26740  | 26765   |
|                                                   | Frequency              | 816.5  | 819    | 821.5   |
| 3                                                 | Channel                | 26705  | 26740  | 26775   |
|                                                   | Frequency              | 815.5  | 819    | 822.5   |
| 1.4                                               | Channel                | 26697  | 26740  | 26783   |
|                                                   | Frequency              | 814.7  | 819    | 823.3   |

| LTE Band 26 Channel and Frequency List (Part90 S) |                        |                     |       |   |
|---------------------------------------------------|------------------------|---------------------|-------|---|
| BW [MHz]                                          | Channel/Frequency(MHz) | cross-rule channels |       |   |
| 10                                                | Channel                | -                   | 26790 | - |
|                                                   | Frequency              | -                   | 824   | - |
| 5                                                 | Channel                | -                   | 26790 | - |
|                                                   | Frequency              | -                   | 824   | - |
| 3                                                 | Channel                | -                   | 26790 | - |
|                                                   | Frequency              | -                   | 824   | - |
| 1.4                                               | Channel                | -                   | 26790 | - |
|                                                   | Frequency              | -                   | 824   | - |



| LTE Band 66 Channel and Frequency List |                        |        |        |         |
|----------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                     | Channel                | 132072 | 132322 | 132572  |
|                                        | Frequency              | 1720   | 1745   | 1770    |
| 15                                     | Channel                | 132047 | 132322 | 132597  |
|                                        | Frequency              | 1717.5 | 1745   | 1772.5  |
| 10                                     | Channel                | 132022 | 132322 | 132622  |
|                                        | Frequency              | 1715   | 1745   | 1775    |
| 5                                      | Channel                | 131997 | 132322 | 132647  |
|                                        | Frequency              | 1712.5 | 1745   | 1777.5  |
| 3                                      | Channel                | 131987 | 132322 | 132657  |
|                                        | Frequency              | 1711.5 | 1745   | 1778.5  |
| 1.4                                    | Channel                | 131979 | 132322 | 132665  |
|                                        | Frequency              | 1710.7 | 1745   | 1779.3  |

| LTE Band 85 Channel and Frequency List |                        |        |        |         |
|----------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 10                                     | Channel                | 134052 | 134092 | 134132  |
|                                        | Frequency              | 703    | 707    | 711     |
| 5                                      | Channel                | 134027 | 134092 | 134157  |
|                                        | Frequency              | 700.5  | 707    | 713.5   |



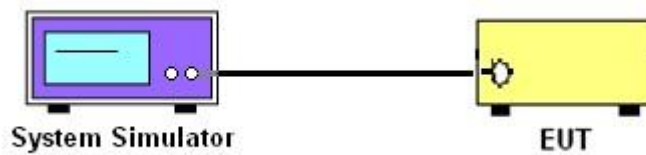
### 3 Conducted Test Items

#### 3.1 Measuring Instruments

See list of measuring instruments of this test report.

##### 3.1.1 Test Setup

##### 3.1.2 Conducted Output Power



##### 3.1.3 Test Result of Conducted Test

Please refer to Appendix A.



## **3.2 Conducted Output Power and ERP/EIRP**

### **3.2.1 Description of the Conducted Output Power Measurement and ERP/EIRP Measurement**

A system simulator was used to establish communication with the EUT. Its parameters were set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 7 Watts for LTE Band 5, Band 26 (Part 22H)

The output power of mobile transmitters must not exceed 100 Watts for LTE Band 26 (Part 90S)

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 12, Band 13, Band 14, Band 85

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2, Band 25

The EIRP of mobile transmitters must not exceed 1 Watts for LTE Band 4, Band 66, Band 42, Band 43

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$ ,  $ERP = EIRP - 2.15$ , where

$P_T$  = transmitter output power in dBm

$G_T$  = gain of the transmitting antenna in dBi

$L_C$  = signal attenuation in the connecting cable between the transmitter and antenna in dB

### **3.2.2 Test Procedures**

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through the system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.

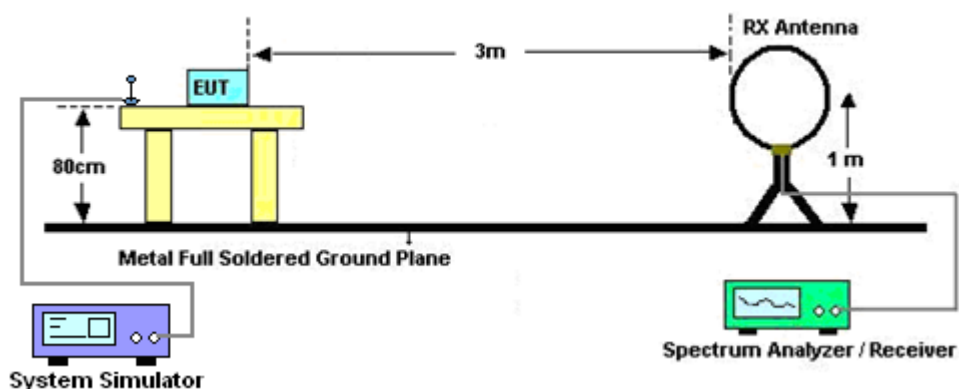
## 4 Radiated Test Items

### 4.1 Measuring Instruments

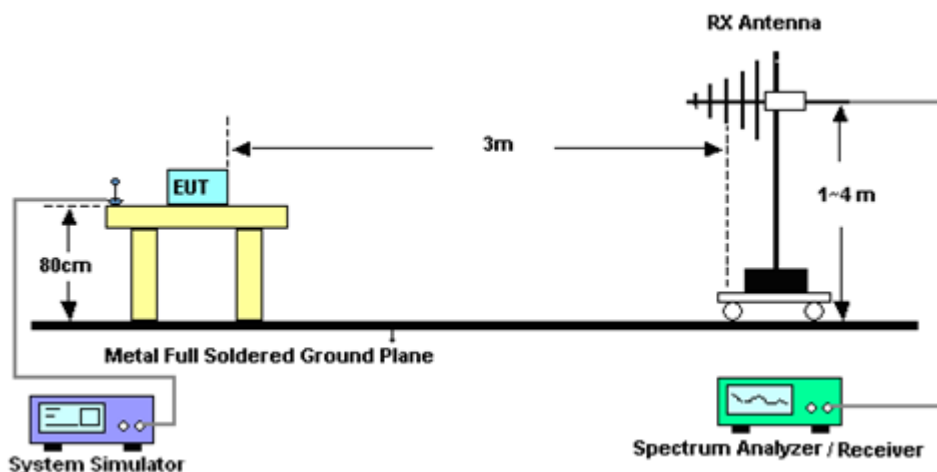
See list of measuring instruments of this test report.

#### 4.1.1 Test Setup

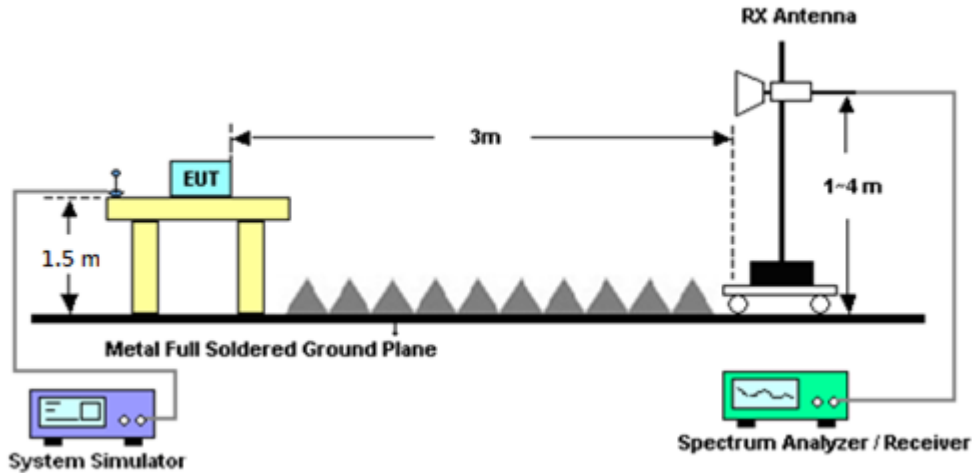
For radiated test below 30MHz



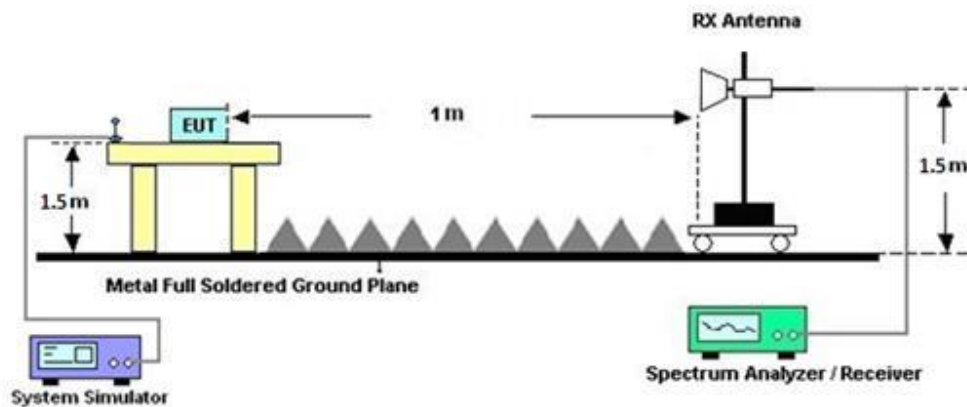
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



#### 4.1.2 Test Result of Radiated Test

Please refer to Appendix B.

##### Note:

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.



## **4.2 Radiated Spurious Emission Measurement**

### **4.2.1 Description of Radiated Spurious Emission Measurement**

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

For LTE Band 13

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

For LTE Band 14

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

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.



#### 4.2.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI C63.26-2015 section 5.5.4 Radiated measurement using the field strength method.

1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. To convert spectrum reading E(dBuV/m) to EIRP(dBm)  
$$\text{EIRP(dBm)} = \text{Level (dBuV/m)} + 20\log(d) - 104.77,$$
where d is the distance at which field strength limit is specified in the rules
7. Field Strength Level (dBm) = Spectrum Reading (dBm) + Antenna Factor + Cable Loss + Read Level - Preamp Factor.
8. ERP (dBm) = EIRP (dBm) - 2.15
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.



## 5 List of Measuring Equipment

| Instrument                         | Brand Name                          | Model No.                                                                | Serial No.                          | Characteristics                     | Calibration Date | Test Date                       | Due Date      | Remark                   |
|------------------------------------|-------------------------------------|--------------------------------------------------------------------------|-------------------------------------|-------------------------------------|------------------|---------------------------------|---------------|--------------------------|
| Bilog Antenna                      | TESEQ                               | CBL 6111D & 00800N1D01N-06                                               | 35419 & 03                          | 30MHz~1GHz                          | Apr. 22, 2024    | Sep. 28, 2024~<br>Oct. 30, 2024 | Apr. 21, 2025 | Radiation<br>(03CH07-HY) |
| Double Ridge<br>Horn Antenna       | ETS-Lindgren                        | 3117                                                                     | 00075962                            | 1GHz ~ 18GHz                        | Nov. 27, 2023    | Sep. 28, 2024~<br>Oct. 30, 2024 | Nov. 26, 2024 | Radiation<br>(03CH07-HY) |
| Loop Antenna                       | Rohde &<br>Schwarz                  | HFH2-Z2                                                                  | 100315                              | 9 kHz~30 MHz                        | Feb. 23, 2024    | Sep. 28, 2024~<br>Oct. 30, 2024 | Feb. 22, 2025 | Radiation<br>(03CH07-HY) |
| Preamplifier                       | MITEQ                               | AMF-7D-0010180<br>0-30-10P                                               | 1590075                             | 1GHz~18GHz                          | Apr. 19, 2024    | Sep. 28, 2024~<br>Oct. 30, 2024 | Apr. 18, 2025 | Radiation<br>(03CH07-HY) |
| Preamplifier                       | Agilent                             | 8449B                                                                    | 3008A02362                          | 1GHz~26.5GHz                        | Mar. 23, 2024    | Sep. 28, 2024~<br>Oct. 30, 2024 | Mar. 22, 2025 | Radiation<br>(03CH07-HY) |
| Preamplifier                       | EMEC                                | EM18G40G                                                                 | 0600789                             | 18-40GHz                            | Aug. 05, 2024    | Sep. 28, 2024~<br>Oct. 30, 2024 | Aug. 04, 2025 | Radiation<br>(03CH07-HY) |
| Spectrum<br>Analyzer               | Agilent                             | N9030A                                                                   | MY52350276                          | 3Hz~44GHz                           | Mar. 26, 2024    | Sep. 28, 2024~<br>Oct. 30, 2024 | Mar. 25, 2025 | Radiation<br>(03CH07-HY) |
| RF Cable                           | HUBER +<br>SUHNER                   | SUCOFLEX 104                                                             | MY28655/4<br>MY24971/4<br>MY15682/4 | 30MHz to<br>18GHz                   | Feb. 21, 2024    | Sep. 28, 2024~<br>Oct. 30, 2024 | Feb. 20, 2025 | Radiation<br>(03CH07-HY) |
| RF Cable                           | HUBER +<br>SUHNER                   | SUCOFLEX 104                                                             | MY28655/4<br>MY24971/4              | 9kHz to 30MHz                       | Feb. 21, 2024    | Sep. 28, 2024~<br>Oct. 30, 2024 | Feb. 20, 2025 | Radiation<br>(03CH07-HY) |
| RF Cable                           | HUBER +<br>SUHNER                   | SUCOFLEX 126                                                             | 532078/126E                         | 30MHz~18GHz                         | Sep. 14, 2024    | Sep. 28, 2024~<br>Oct. 30, 2024 | Sep. 13, 2025 | Radiation<br>(03CH07-HY) |
| RF Cable                           | HUBER +<br>SUHNER                   | SUCOFLEX 102                                                             | MY2858/2                            | 18GHz~40GHz                         | Feb. 21, 2024    | Sep. 28, 2024~<br>Oct. 30, 2024 | Feb. 20, 2025 | Radiation<br>(03CH07-HY) |
| RF Cable                           | HUBER +<br>SUHNER                   | SUCOFLEX 102                                                             | 801606/2                            | 9KHz ~ 40GHz                        | Apr. 22, 2024    | Sep. 28, 2024~<br>Oct. 30, 2024 | Apr. 21, 2025 | Radiation<br>(03CH07-HY) |
| Controller                         | EMEC                                | EM1000                                                                   | N/A                                 | Control Ant<br>Mast                 | N/A              | Sep. 28, 2024~<br>Oct. 30, 2024 | N/A           | Radiation<br>(03CH07-HY) |
| Controller                         | MF                                  | MF-7802                                                                  | N/A                                 | Control Turn<br>table               | N/A              | Sep. 28, 2024~<br>Oct. 30, 2024 | N/A           | Radiation<br>(03CH07-HY) |
| Antenna Mast                       | EMEC                                | AM-BS-4500E                                                              | N/A                                 | Boresight mast<br>1M~4M             | N/A              | Sep. 28, 2024~<br>Oct. 30, 2024 | N/A           | Radiation<br>(03CH07-HY) |
| Turn Table                         | ChainTek                            | Chaintek 3000                                                            | N/A                                 | 0~360 Degree                        | N/A              | Sep. 28, 2024~<br>Oct. 30, 2024 | N/A           | Radiation<br>(03CH07-HY) |
| Software                           | Audix                               | E3                                                                       | N/A                                 | N/A                                 | N/A              | Sep. 28, 2024~<br>Oct. 30, 2024 | N/A           | Radiation<br>(03CH07-HY) |
| USB Data<br>Logger                 | TECPEL                              | TR-32                                                                    | HE17XB2495                          | N/A                                 | Mar. 01, 2024    | Sep. 28, 2024~<br>Oct. 30, 2024 | Feb. 28, 2025 | Radiation<br>(03CH07-HY) |
| SHF-EHF Horn<br>Antenna            | SCHWARZBE<br>CK                     | BBHA 9170                                                                | BBHA9170251                         | 18GHz~40GHz                         | Nov. 24, 2023    | Sep. 28, 2024~<br>Oct. 30, 2024 | Nov. 23, 2024 | Radiation<br>(03CH07-HY) |
| Radio<br>Communication<br>Analyzer | Anritsu                             | MT8821C                                                                  | 6262025353                          | LTE FDD/TDD<br>LTE-2CC<br>DLCA/ULCA | Oct. 01, 2024    | Nov. 04, 2024~<br>Nov. 06, 2024 | Sep. 30, 2025 | Conducted<br>(TH03-HY)   |
| Coupler+10dB+<br>Rf cable          | Warison +<br>WoKen +<br>E-Instument | 20dB 25W SMA<br>Directional<br>Coupler+ 10dB<br>18GHz_5W+SFL<br>405_1.5M | #A+#1+#1+#7                         | 1-18GHz                             | Jan. 02, 2024    | Nov. 04, 2024~<br>Nov. 06, 2024 | Jan. 01, 2025 | Conducted<br>(TH03-HY)   |
| Software                           | Sporton                             | LTE<br>Conducted<br>Test Tools                                           | N/A                                 | Conducted Test<br>Item              | N/A              | Nov. 04, 2024~<br>Nov. 06, 2024 | N/A           | Conducted<br>(TH03-HY)   |
| Hygrometer                         | TECPEL                              | DTM-303B                                                                 | TP210073                            | -10 ~ 50°C / 20<br>~ 95%RH          | Jun. 05, 2024    | Nov. 04, 2024~<br>Nov. 06, 2024 | Jun. 04, 2025 | Conducted<br>(TH03-HY)   |



## 6 Measurement Uncertainty

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

|                                                                            |          |
|----------------------------------------------------------------------------|----------|
| Measuring Uncertainty for a Level of<br>Confidence of 95% ( $U = 2Uc(y)$ ) | 3.291 dB |
|----------------------------------------------------------------------------|----------|

### Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

|                                                                            |          |
|----------------------------------------------------------------------------|----------|
| Measuring Uncertainty for a Level of<br>Confidence of 95% ( $U = 2Uc(y)$ ) | 2.076 dB |
|----------------------------------------------------------------------------|----------|

### Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

|                                                                            |          |
|----------------------------------------------------------------------------|----------|
| Measuring Uncertainty for a Level of<br>Confidence of 95% ( $U = 2Uc(y)$ ) | 2.083 dB |
|----------------------------------------------------------------------------|----------|





## Appendix A. Test Results of Conducted Test

### Conducted Output Power(Average power & ERP/EIRP)

| LTE Band 2 Maximum Average Power [dBm] (GT - LC = 0.43 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 20                                                         | 1         | 0         | QPSK   | 20.06  | 20.23  | 20.15   | 20.66      | 0.1164   |
| 20                                                         | 1         | 0         | 16-QAM | 20.08  | 20.09  | 20.16   | 20.59      | 0.1146   |
| 15                                                         | 1         | 0         | QPSK   | 20.04  | 20.12  | 20.08   | 20.55      | 0.1135   |
| 15                                                         | 1         | 0         | 16-QAM | 20.03  | 20.06  | 20.10   | 20.53      | 0.1130   |
| 10                                                         | 1         | 0         | QPSK   | 20.03  | 20.16  | 20.07   | 20.59      | 0.1146   |
| 10                                                         | 1         | 0         | 16-QAM | 20.07  | 20.06  | 20.09   | 20.52      | 0.1127   |
| 5                                                          | 1         | 0         | QPSK   | 20.05  | 20.15  | 20.06   | 20.58      | 0.1143   |
| 5                                                          | 1         | 0         | 16-QAM | 20.03  | 20.01  | 20.13   | 20.56      | 0.1138   |
| 3                                                          | 1         | 0         | QPSK   | 20.00  | 20.10  | 20.10   | 20.53      | 0.1130   |
| 3                                                          | 1         | 0         | 16-QAM | 19.25  | 19.19  | 19.30   | 19.73      | 0.0940   |
| 1.4                                                        | 1         | 0         | QPSK   | 20.05  | 20.13  | 20.11   | 20.56      | 0.1138   |
| 1.4                                                        | 1         | 0         | 16-QAM | 19.28  | 19.22  | 19.35   | 19.78      | 0.0951   |
| Limit                                                      | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 25 Maximum Average Power [dBm] (GT - LC = 0.43 dB) |           |           |        |        |        |         |            |          |
|-------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                    | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 20                                                          | 1         | 0         | QPSK   | 20.16  | 20.21  | 20.16   | 20.64      | 0.1159   |
| 20                                                          | 1         | 0         | 16-QAM | 20.10  | 20.19  | 20.17   | 20.62      | 0.1153   |
| 15                                                          | 1         | 0         | QPSK   | 20.07  | 20.11  | 20.09   | 20.54      | 0.1132   |
| 15                                                          | 1         | 0         | 16-QAM | 20.00  | 20.16  | 20.11   | 20.59      | 0.1146   |
| 10                                                          | 1         | 0         | QPSK   | 20.14  | 20.18  | 20.07   | 20.61      | 0.1151   |
| 10                                                          | 1         | 0         | 16-QAM | 20.05  | 20.12  | 20.12   | 20.55      | 0.1135   |
| 5                                                           | 1         | 0         | QPSK   | 20.14  | 20.20  | 20.12   | 20.63      | 0.1156   |
| 5                                                           | 1         | 0         | 16-QAM | 20.07  | 20.18  | 20.09   | 20.61      | 0.1151   |
| 3                                                           | 1         | 0         | QPSK   | 20.06  | 20.14  | 20.12   | 20.57      | 0.1140   |
| 3                                                           | 1         | 0         | 16-QAM | 19.25  | 19.37  | 19.31   | 19.80      | 0.0955   |
| 1.4                                                         | 1         | 0         | QPSK   | 20.10  | 20.10  | 20.14   | 20.57      | 0.1140   |
| 1.4                                                         | 1         | 0         | 16-QAM | 19.21  | 19.37  | 19.34   | 19.80      | 0.0955   |
| Limit                                                       | EIRP < 2W |           |        | Result |        |         | Pass       |          |



| LTE Band 4 Maximum Average Power [dBm] (GT - LC = -0.28 dB) |           |           |        |        |        |         |            |          |
|-------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                    | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 20                                                          | 1         | 0         | QPSK   | 20.15  | 20.82  | 20.59   | 20.54      | 0.1132   |
| 20                                                          | 1         | 0         | 16-QAM | 20.63  | 20.81  | 20.47   | 20.53      | 0.1130   |
| 15                                                          | 1         | 0         | QPSK   | 20.14  | 20.58  | 20.53   | 20.30      | 0.1072   |
| 15                                                          | 1         | 0         | 16-QAM | 20.60  | 20.74  | 20.39   | 20.46      | 0.1112   |
| 10                                                          | 1         | 0         | QPSK   | 20.07  | 20.60  | 20.49   | 20.32      | 0.1076   |
| 10                                                          | 1         | 0         | 16-QAM | 20.61  | 20.78  | 20.47   | 20.50      | 0.1122   |
| 5                                                           | 1         | 0         | QPSK   | 20.15  | 20.55  | 20.59   | 20.31      | 0.1074   |
| 5                                                           | 1         | 0         | 16-QAM | 20.57  | 20.76  | 20.46   | 20.48      | 0.1117   |
| 3                                                           | 1         | 0         | QPSK   | 20.10  | 20.53  | 20.58   | 20.30      | 0.1072   |
| 3                                                           | 1         | 0         | 16-QAM | 19.74  | 20.47  | 20.43   | 20.19      | 0.1045   |
| 1.4                                                         | 1         | 0         | QPSK   | 20.05  | 20.54  | 20.56   | 20.28      | 0.1067   |
| 1.4                                                         | 1         | 0         | 16-QAM | 19.74  | 20.43  | 20.38   | 20.15      | 0.1035   |
| Limit                                                       | EIRP < 1W |           |        | Result |        |         | Pass       |          |

| LTE Band 5 Maximum Average Power [dBm] (GT - LC = 0.71 dB) |          |           |        |        |        |         |           |         |
|------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                   | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 10                                                         | 1        | 0         | QPSK   | 20.08  | 20.31  | 20.14   | 18.87     | 0.0771  |
| 10                                                         | 1        | 0         | 16-QAM | 20.27  | 20.30  | 20.16   | 18.86     | 0.0769  |
| 5                                                          | 1        | 0         | QPSK   | 20.05  | 20.21  | 20.10   | 18.77     | 0.0753  |
| 5                                                          | 1        | 0         | 16-QAM | 20.22  | 20.29  | 20.15   | 18.85     | 0.0767  |
| 3                                                          | 1        | 0         | QPSK   | 20.03  | 20.15  | 20.04   | 18.71     | 0.0743  |
| 3                                                          | 1        | 0         | 16-QAM | 19.37  | 19.42  | 19.26   | 17.98     | 0.0628  |
| 1.4                                                        | 1        | 0         | QPSK   | 20.05  | 20.15  | 20.09   | 18.71     | 0.0743  |
| 1.4                                                        | 1        | 0         | 16-QAM | 19.44  | 19.46  | 19.30   | 18.02     | 0.0634  |
| Limit                                                      | ERP < 7W |           |        | Result |        |         | Pass      |         |

| LTE Band 12 Maximum Average Power [dBm] (GT - LC = 0.47 dB) |          |           |        |        |        |         |           |         |
|-------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                    | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 10                                                          | 1        | 0         | QPSK   | 20.27  | 20.60  | 20.15   | 18.92     | 0.0780  |
| 10                                                          | 1        | 0         | 16-QAM | 20.30  | 20.59  | 20.35   | 18.91     | 0.0778  |
| 5                                                           | 1        | 0         | QPSK   | 20.22  | 20.25  | 20.14   | 18.57     | 0.0719  |
| 5                                                           | 1        | 0         | 16-QAM | 20.20  | 20.21  | 20.23   | 18.55     | 0.0716  |
| 3                                                           | 1        | 0         | QPSK   | 20.25  | 20.26  | 20.12   | 18.58     | 0.0721  |
| 3                                                           | 1        | 0         | 16-QAM | 19.86  | 19.78  | 19.46   | 18.18     | 0.0658  |
| 1.4                                                         | 1        | 0         | QPSK   | 20.21  | 20.28  | 20.11   | 18.60     | 0.0724  |
| 1.4                                                         | 1        | 0         | 16-QAM | 19.86  | 19.77  | 19.53   | 18.18     | 0.0658  |
| Limit                                                       | ERP < 3W |           |        | Result |        |         | Pass      |         |



| LTE Band 13 Maximum Average Power [dBm] (GT - LC = 1.45 dB) |          |           |        |        |        |         |           |         |
|-------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                    | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 10                                                          | 1        | 0         | QPSK   | -      | 20.18  | -       | 19.48     | 0.0887  |
| 10                                                          | 1        | 0         | 16-QAM |        | 20.15  |         | 19.45     | 0.0881  |
| 5                                                           | 1        | 0         | QPSK   | 20.07  | 20.17  | 20.15   | 19.47     | 0.0885  |
| 5                                                           | 1        | 0         | 16-QAM | 20.11  | 20.15  | 20.14   | 19.45     | 0.0881  |
| Limit                                                       | ERP < 3W |           |        | Result |        |         | Pass      |         |

| LTE Band 26 Maximum Average Power [dBm] (GT - LC = 0.47 dB) |          |           |        |        |        |         |           |         |
|-------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                    | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 15                                                          | 1        | 0         | QPSK   | 18.59  | 18.67  | 18.59   | 16.99     | 0.0500  |
| 15                                                          | 1        | 0         | 16-QAM | 18.55  | 18.57  | 18.64   | 16.96     | 0.0497  |
| 10                                                          | 1        | 0         | QPSK   | 18.48  | 18.53  | 18.39   | 16.85     | 0.0484  |
| 10                                                          | 1        | 0         | 16-QAM | 18.40  | 18.39  | 18.45   | 16.77     | 0.0475  |
| 5                                                           | 1        | 0         | QPSK   | 18.39  | 18.53  | 18.49   | 16.85     | 0.0484  |
| 5                                                           | 1        | 0         | 16-QAM | 18.35  | 18.37  | 18.54   | 16.86     | 0.0485  |
| 3                                                           | 1        | 0         | QPSK   | 18.47  | 18.53  | 18.40   | 16.85     | 0.0484  |
| 3                                                           | 1        | 0         | 16-QAM | 18.37  | 18.39  | 18.51   | 16.83     | 0.0482  |
| 1.4                                                         | 1        | 0         | QPSK   | 18.39  | 18.55  | 18.49   | 16.87     | 0.0486  |
| 1.4                                                         | 1        | 0         | 16-QAM | 18.37  | 18.41  | 18.48   | 16.80     | 0.0479  |
| Limit                                                       | ERP < 7W |           |        | Result |        |         | Pass      |         |

| LTE Band 66 Maximum Average Power [dBm] (GT - LC = 0.08 dB) |           |           |        |        |        |         |            |          |
|-------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                    | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 20                                                          | 1         | 0         | QPSK   | 20.18  | 20.53  | 20.11   | 20.61      | 0.1151   |
| 20                                                          | 1         | 0         | 16-QAM | 20.30  | 20.52  | 20.22   | 20.60      | 0.1148   |
| 15                                                          | 1         | 0         | QPSK   | 20.09  | 20.45  | 20.11   | 20.53      | 0.1130   |
| 15                                                          | 1         | 0         | 16-QAM | 20.24  | 20.45  | 20.12   | 20.53      | 0.1130   |
| 10                                                          | 1         | 0         | QPSK   | 20.15  | 20.45  | 20.05   | 20.53      | 0.1130   |
| 10                                                          | 1         | 0         | 16-QAM | 20.24  | 20.44  | 20.18   | 20.54      | 0.1132   |
| 5                                                           | 1         | 0         | QPSK   | 20.14  | 20.46  | 20.07   | 20.54      | 0.1132   |
| 5                                                           | 1         | 0         | 16-QAM | 20.21  | 20.45  | 20.14   | 20.54      | 0.1132   |
| 3                                                           | 1         | 0         | QPSK   | 20.16  | 20.46  | 20.04   | 20.54      | 0.1132   |
| 3                                                           | 1         | 0         | 16-QAM | 19.40  | 19.67  | 19.36   | 20.54      | 0.1132   |
| 1.4                                                         | 1         | 0         | QPSK   | 20.11  | 20.46  | 20.01   | 20.54      | 0.1132   |
| 1.4                                                         | 1         | 0         | 16-QAM | 19.44  | 19.70  | 19.40   | 19.78      | 0.0951   |
| Limit                                                       | EIRP < 1W |           |        | Result |        |         | Pass       |          |



| LTE Band 85 Maximum Average Power [dBm] (GT - LC = 0.46 dB) |          |           |        |        |        |         |           |         |
|-------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                    | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 10                                                          | 1        | 0         | QPSK   | 20.13  | 20.23  | 20.21   | 18.54     | 0.0714  |
| 10                                                          | 1        | 0         | 16-QAM | 20.19  | 20.22  | 20.15   | 18.53     | 0.0713  |
| 5                                                           | 1        | 0         | QPSK   | 20.21  | 20.13  | 20.16   | 18.52     | 0.0711  |
| 5                                                           | 1        | 0         | 16-QAM | 20.15  | 20.18  | 20.15   | 18.49     | 0.0706  |
| Limit                                                       | ERP < 3W |           |        | Result |        |         | Pass      |         |

| LTE Band 14 Maximum Average Power [dBm] (GT - LC = 1.43 dB) |          |           |        |        |        |         |           |         |
|-------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                    | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 10                                                          | 1        | 0         | QPSK   | -      | 20.22  | -       | 19.50     | 0.0891  |
| 10                                                          | 1        | 0         | 16-QAM |        | 20.17  |         | 19.45     | 0.0881  |
| 5                                                           | 1        | 0         | QPSK   | 20.07  | 20.07  | 20.03   | 19.43     | 0.0877  |
| 5                                                           | 1        | 0         | 16-QAM | 20.12  | 20.15  | 20.10   | 19.43     | 0.0877  |
| Limit                                                       | ERP < 3W |           |        | Result |        |         | Pass      |         |



# FCC RADIO TEST REPORT

Report No. : FG490505B

| Part90S LTE Band 26 Maximum Average Power [dBm] (GT - LC = 0.47 dB) |            |           |        |        |        |         |           |         |
|---------------------------------------------------------------------|------------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                            | RB Size    | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 10                                                                  | 1          | 0         | QPSK   | -      | 20.18  | -       | 18.50     | 0.0708  |
| 10                                                                  | 1          | 0         | 16-QAM | -      | 20.17  | -       |           |         |
| 5                                                                   | 1          | 0         | QPSK   | 20.09  | 20.05  | 20.13   | 18.45     | 0.0700  |
| 5                                                                   | 1          | 0         | 16-QAM | 20.08  | 20.07  | 20.08   |           |         |
| 3                                                                   | 1          | 0         | QPSK   | 20.10  | 20.03  | 20.11   | 18.43     | 0.0697  |
| 3                                                                   | 1          | 0         | 16-QAM | 19.28  | 19.35  | 19.27   |           |         |
| 1.4                                                                 | 1          | 0         | QPSK   | 20.13  | 20.10  | 20.03   | 18.45     | 0.0700  |
| 1.4                                                                 | 1          | 0         | 16-QAM | 19.29  | 19.33  | 19.34   |           |         |
| Limit                                                               | ERP < 100W |           |        | Result |        |         | Pass      |         |



# FCC RADIO TEST REPORT

Report No. : FG490505B

| LTE Band 26 Straddle Maximum Average Power [dBm] (GT - LC = 0.47 dB) |          |           |        |        |        |         |           |         |
|----------------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                             | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 10                                                                   | 1        | 0         | QPSK   | -      | 19.94  | -       | 18.26     | 0.0670  |
| 10                                                                   | 1        | 0         | 16-QAM | -      | 19.92  | -       |           |         |
| 5                                                                    | 1        | 0         | QPSK   | -      | 20.11  | -       | 18.43     | 0.0697  |
| 5                                                                    | 1        | 0         | 16-QAM | -      | 19.43  | -       |           |         |
| 3                                                                    | 1        | 0         | QPSK   | -      | 20.09  | -       | 18.41     | 0.0693  |
| 3                                                                    | 1        | 0         | 16-QAM | -      | 19.01  | -       |           |         |
| 1.4                                                                  | 1        | 0         | QPSK   | -      | 20.07  | -       | 18.39     | 0.0690  |
| 1.4                                                                  | 1        | 0         | 16-QAM | -      | 18.94  | -       |           |         |
| Limit                                                                | ERP < 7W |           |        | Result |        |         | Pass      |         |



## **Appendix B. Test Results of Radiated Test**

### **B1-1. Summary of each worse mode**

**<Sample 1>**

| Mode | Part     | Band          | Ch | Freq<br>(MHz) | Level<br>(dBm) | Det | Ant Factor<br>(dB) | AmplCbl<br>(dB) | Filter<br>(dB) | EIRPCF<br>(dB) | Reading<br>(dBuV) | Limit<br>(dBm) | Margin<br>(dB) | Pol | Ant   |
|------|----------|---------------|----|---------------|----------------|-----|--------------------|-----------------|----------------|----------------|-------------------|----------------|----------------|-----|-------|
| 1    | Part 24E | LTE CAT M1 B2 | M  | 3750          | -34.15         | RMS | 33.20              | -48.96          | 0.67           | -95.23         | 76.17             | -13.00         | -21.15         | H   | Ant 5 |



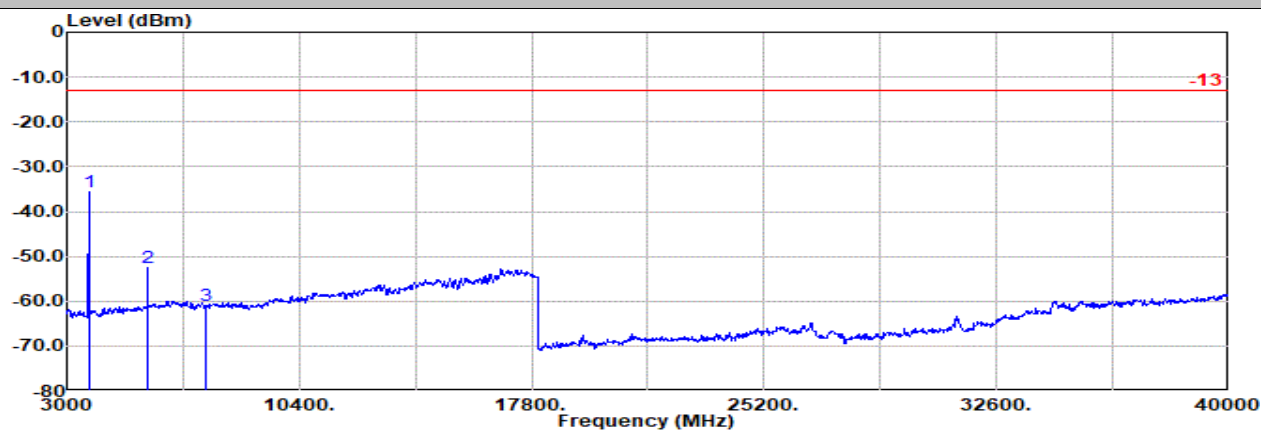
Ant. 5

Worst plane :NB With Accessory

## Part 24E Mode 1

LTE CAT M1 B2 20M Ch18700 1RB0 QPSK

L

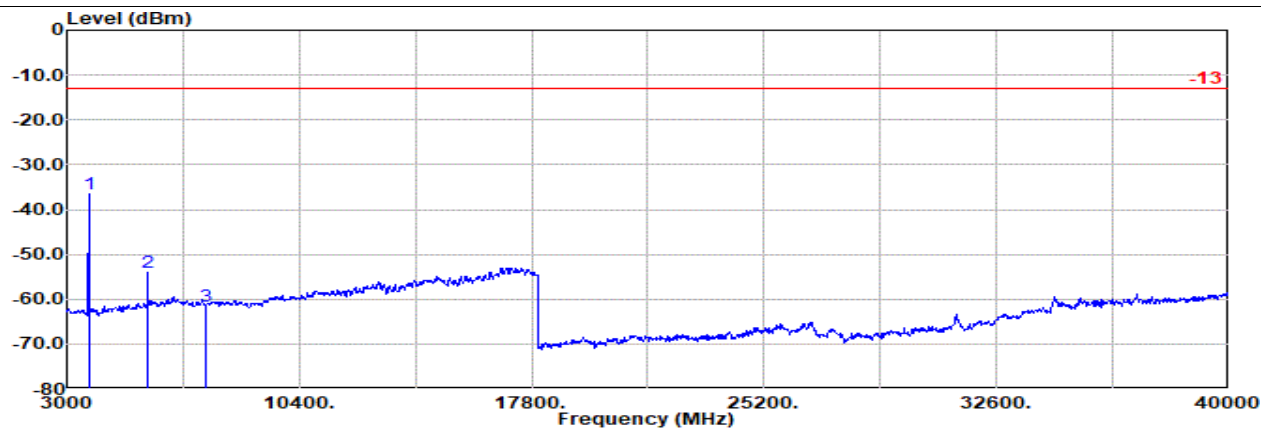


Site : 03CH07-HY

Condition: -13 1m SHF-EHF\_9170251 Horizontal

Mode : CatM1 Band 2 20M CH18700 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter 1 | EIRPCF | Readin g | Limit  | Margin | Pol        |
|---|---------|--------|----------|------------|--------|----------|--------|----------|--------|--------|------------|
|   | MHz     | dBm    |          |            |        | dB/m     | dB     | dB       | dB     | dB     |            |
| 1 | 3705.00 | -35.61 | RMS      | 33.11      | -49.00 | 0.67     | -95.23 | 0.00     | -13.00 | -22.61 | Horizontal |
| 2 | 5565.00 | -52.52 | RMS      | 34.70      | -44.06 | 0.51     | -95.23 | 51.56    | -13.00 | -39.52 | Horizontal |
| 3 | 7400.00 | -60.88 | RMS      | 35.70      | -42.98 | 0.31     | -95.23 | 41.32    | -13.00 | -47.88 | Horizontal |



Site : 03CH07-HY

Condition: -13 1m SHF-EHF\_9170251 Vertical

Mode : CatM1 Band 2 20M CH18700 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter 1 | EIRPCF | Readin g | Limit  | Margin | Pol      |
|---|---------|--------|----------|------------|--------|----------|--------|----------|--------|--------|----------|
|   | MHz     | dBm    |          |            |        | dB/m     | dB     | dB       | dB     | dB     |          |
| 1 | 3705.00 | -36.39 | RMS      | 33.11      | -49.00 | 0.67     | -95.23 | 74.06    | -13.00 | -23.39 | Vertical |
| 2 | 5565.00 | -54.18 | RMS      | 34.70      | -44.06 | 0.51     | -95.23 | 49.90    | -13.00 | -41.18 | Vertical |
| 3 | 7400.00 | -61.51 | RMS      | 35.70      | -42.98 | 0.31     | -95.23 | 40.69    | -13.00 | -48.51 | Vertical |





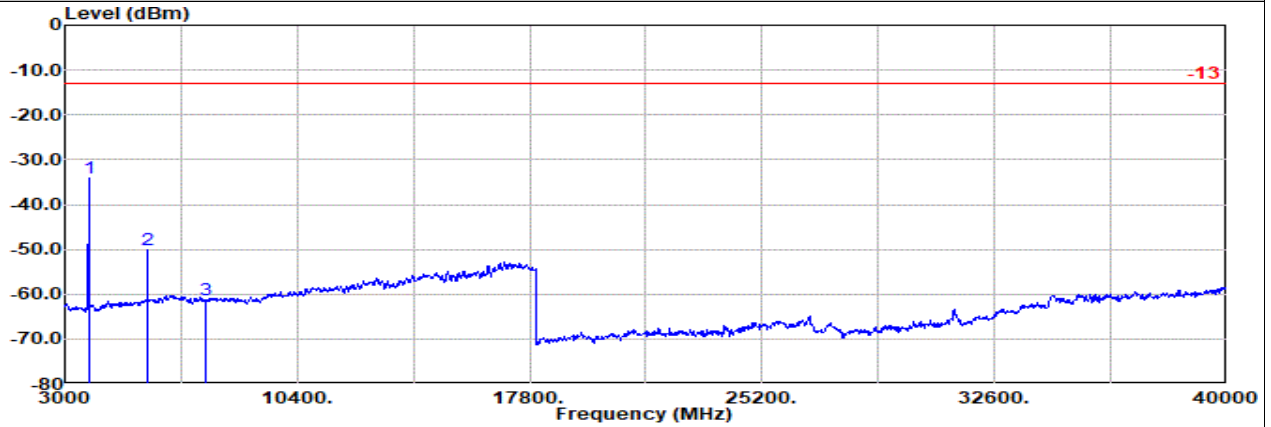
Ant. 5

Worst plane :NB With Accessory

## Part 24E Mode 1

LTE CAT M1 B2 20M Ch18900 1RB0 QPSK

M

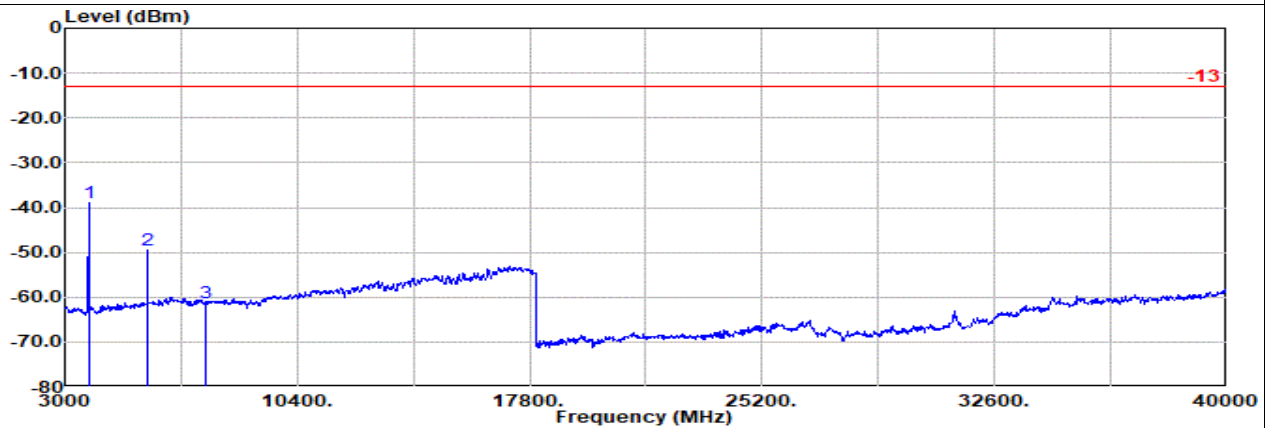


Site : 03CH07-HY

Condition: -13 1m SHF-EHF\_9170251 Horizontal

Mode : CatM1 Band 2 20M CH18900 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter 1 | EIRPCF | Reading | Limit  | Margin | Pol        |
|---|---------|--------|----------|------------|--------|----------|--------|---------|--------|--------|------------|
|   | MHz     | dBm    |          |            |        |          |        |         |        |        |            |
| 1 | 3750.00 | -34.15 | RMS      | 33.20      | -48.96 | 0.67     | -95.23 | 76.17   | -13.00 | -21.15 | Horizontal |
| 2 | 5625.00 | -50.09 | RMS      | 34.85      | -43.90 | 0.50     | -95.23 | 53.69   | -13.00 | -37.09 | Horizontal |
| 3 | 7485.00 | -61.42 | RMS      | 35.53      | -43.03 | 0.33     | -95.23 | 40.98   | -13.00 | -48.42 | Horizontal |



Site : 03CH07-HY

Condition: -13 1m SHF-EHF\_9170251 Vertical

Mode : CatM1 Band 2 20M CH18900 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter 1 | EIRPCF | Reading | Limit  | Margin | Pol      |
|---|---------|--------|----------|------------|--------|----------|--------|---------|--------|--------|----------|
|   | MHz     | dBm    |          |            |        |          |        |         |        |        |          |
| 1 | 3750.00 | -39.04 | RMS      | 33.20      | -48.96 | 0.67     | -95.23 | 71.28   | -13.00 | -26.04 | Vertical |
| 2 | 5625.00 | -49.52 | RMS      | 34.85      | -43.90 | 0.50     | -95.23 | 54.26   | -13.00 | -36.52 | Vertical |
| 3 | 7485.00 | -61.42 | RMS      | 35.53      | -43.03 | 0.33     | -95.23 | 40.98   | -13.00 | -48.42 | Vertical |



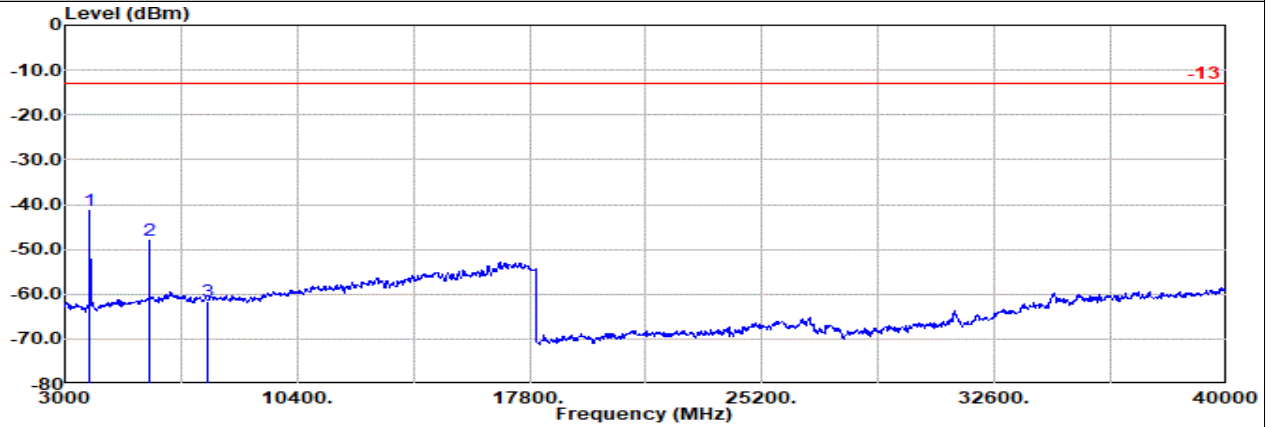
Ant. 5

Worst plane :NB With Accessory

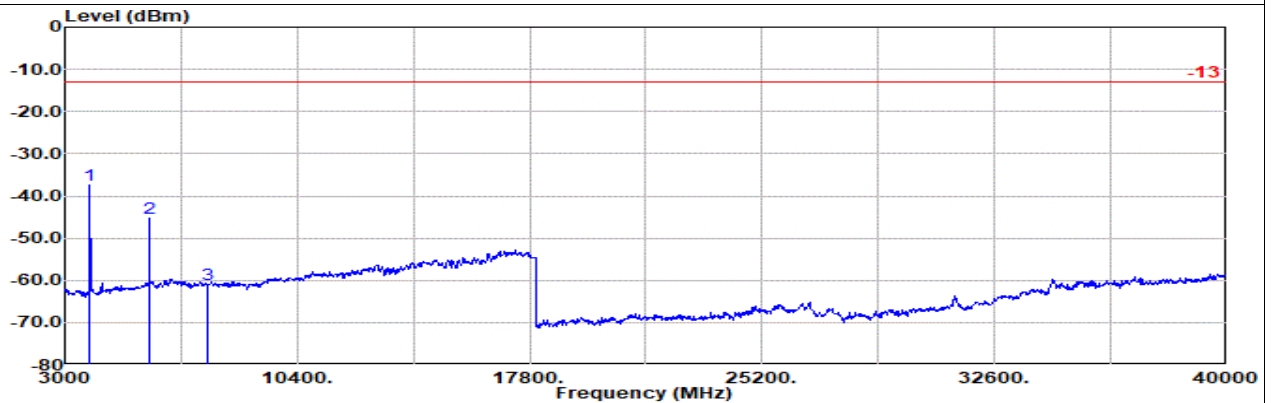
## Part 24E Mode 1

LTE CAT M1 B2 20M Ch19100 1RB0 QPSK

H



|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter 1 | EIRPCF | Reading | Limit  | Margin | Pol        |
|---|---------|--------|----------|------------|--------|----------|--------|---------|--------|--------|------------|
|   | MHz     | dBm    |          |            |        | dB       | dB     | dBuV    | dBm    | dB     |            |
| 1 | 3795.00 | -41.28 | RMS      | 33.38      | -48.91 | 0.68     | -95.23 | 68.80   | -13.00 | -28.28 | Horizontal |
| 2 | 5685.00 | -48.04 | RMS      | 35.14      | -43.73 | 0.41     | -95.23 | 55.37   | -13.00 | -35.04 | Horizontal |
| 3 | 7560.00 | -61.44 | RMS      | 35.74      | -42.98 | 0.34     | -95.23 | 40.69   | -13.00 | -48.44 | Horizontal |



|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter 1 | EIRPCF | Reading | Limit  | Margin | Pol      |
|---|---------|--------|----------|------------|--------|----------|--------|---------|--------|--------|----------|
|   | MHz     | dBm    |          |            |        | dB       | dB     | dBuV    | dBm    | dB     |          |
| 1 | 3795.00 | -37.33 | RMS      | 33.38      | -48.91 | 0.68     | -95.23 | 72.75   | -13.00 | -24.33 | Vertical |
| 2 | 5685.00 | -45.22 | RMS      | 35.14      | -43.73 | 0.41     | -95.23 | 58.19   | -13.00 | -32.22 | Vertical |
| 3 | 7560.00 | -60.95 | RMS      | 35.74      | -42.98 | 0.34     | -95.23 | 41.18   | -13.00 | -47.95 | Vertical |

**B2-1. Summary of each worse mode****<Sample 2>**

| Mode | Part     | Band           | Ch | Freq (MHz) | Level (dBm) | Det | Ant Factor (dB) | AmplCbl (dB) | Filter (dB) | EIRPCF (dB) | Reading (dBuV) | Limit (dBm) | Margin (dB) | Pol | Ant   |
|------|----------|----------------|----|------------|-------------|-----|-----------------|--------------|-------------|-------------|----------------|-------------|-------------|-----|-------|
| 6    | Part 27H | LTE CAT M1 B12 | L  | 2104       | -28.78      | RMS | 31.80           | -51.08       | 0.23        | -95.23      | 85.50          | -13.00      | -15.78      | H   | Ant 5 |
| 1    | Part 27F | LTE CAT M1 B13 | H  | 2352       | -14.90      | RMS | 32.08           | -50.62       | 0.34        | -95.23      | 98.53          | -13.00      | -1.90       | V   | Ant 5 |
| 2    | Part 27F | LTE CAT M1 B13 | M  | 2336       | -18.32      | RMS | 32.10           | -50.65       | 0.33        | -95.23      | 95.13          | -13.00      | -5.32       | H   | Ant 5 |
| 5    | Part 27L | LTE CAT M1 B66 | L  | 3435       | -29.23      | RMS | 33.10           | -49.13       | 0.79        | -95.23      | 81.24          | -13.00      | -16.23      | H   | Ant 5 |
| 7    | Part 90R | LTE CAT M1 B14 | H  | 2384       | -16.15      | RMS | 31.94           | -50.57       | 0.37        | -95.23      | 97.34          | -13.00      | -3.15       | H   | Ant 5 |
| 8    | Part 90S | LTE CAT M1 B26 | M  | 2456       | -16.08      | RMS | 32.06           | -50.44       | 0.32        | -95.23      | 97.21          | -13.00      | -3.08       | H   | Ant 5 |



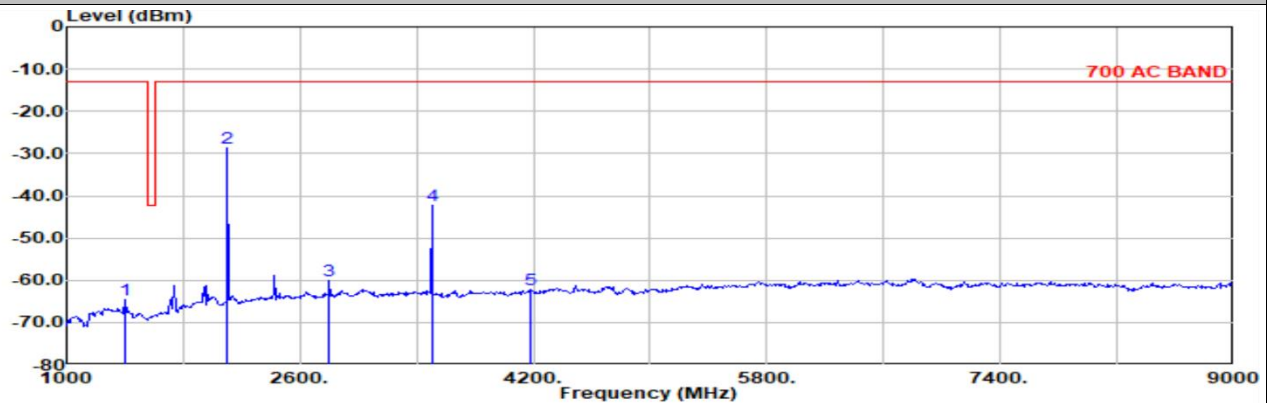
Ant. 5

Worst plane :NB With Accessory

Part 27H Mode 6

LTE CAT M1 B12 10M Ch23060 1RB0 QPSK

L

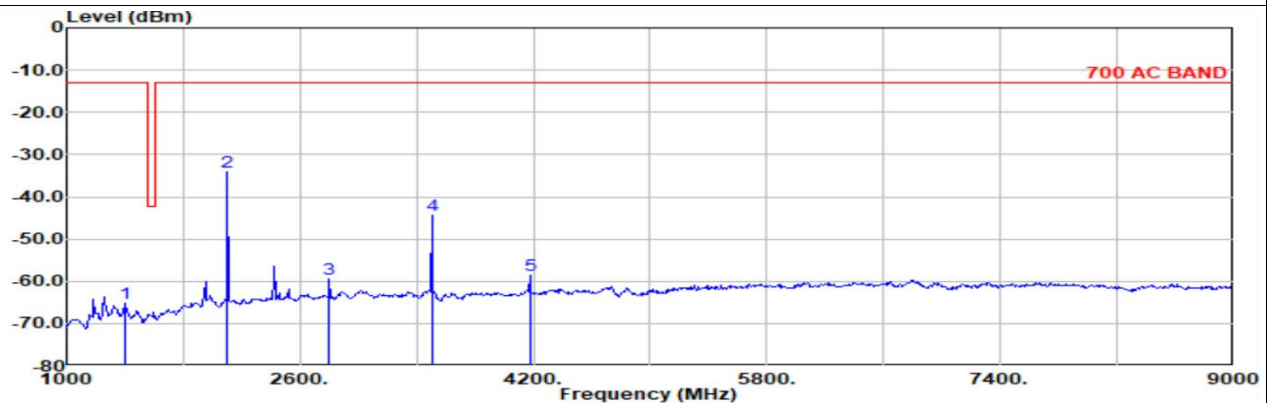


Site : 03CH07-HY

Condition: 700 AC BAND 3m HF\_ANT\_00075962 Horizontal

Mode : CatM1 Band 12 10M CH23060 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter 1 | EIRPCF | Readin g | Limit  | Margin | Pol        |
|---|---------|--------|----------|------------|--------|----------|--------|----------|--------|--------|------------|
|   | MHz     | dBm    |          |            |        |          |        |          |        |        |            |
| 1 | 1400.00 | -64.57 | RMS      | 28.60      | -52.80 | 0.42     | -95.23 | 54.44    | -13.00 | -51.57 | Horizontal |
| 2 | 2104.00 | -28.78 | RMS      | 31.80      | -51.08 | 0.23     | -95.23 | 85.50    | -13.00 | -15.78 | Horizontal |
| 3 | 2800.00 | -60.17 | RMS      | 32.40      | -49.67 | 0.26     | -95.23 | 52.07    | -13.00 | -47.17 | Horizontal |
| 4 | 3504.00 | -42.24 | RMS      | 32.78      | -49.13 | 0.22     | -95.23 | 69.12    | -13.00 | -29.24 | Horizontal |
| 5 | 4176.00 | -62.17 | RMS      | 33.65      | -48.56 | 0.42     | -95.23 | 47.55    | -13.00 | -49.17 | Horizontal |



Site : 03CH07-HY

Condition: 700 AC BAND 3m HF\_ANT\_00075962 Vertical

Mode : CatM1 Band 12 10M CH23060 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter 1 | EIRPCF | Readin g | Limit  | Margin | Pol      |
|---|---------|--------|----------|------------|--------|----------|--------|----------|--------|--------|----------|
|   | MHz     | dBm    |          |            |        |          |        |          |        |        |          |
| 1 | 1400.00 | -65.25 | RMS      | 28.60      | -52.80 | 0.42     | -95.23 | 53.76    | -13.00 | -52.25 | Vertical |
| 2 | 2104.00 | -33.99 | RMS      | 31.80      | -51.08 | 0.23     | -95.23 | 80.29    | -13.00 | -20.99 | Vertical |
| 3 | 2800.00 | -59.46 | RMS      | 32.40      | -49.67 | 0.26     | -95.23 | 52.78    | -13.00 | -46.46 | Vertical |
| 4 | 3504.00 | -44.31 | RMS      | 32.78      | -49.13 | 0.22     | -95.23 | 67.05    | -13.00 | -31.31 | Vertical |
| 5 | 4176.00 | -58.44 | RMS      | 33.65      | -48.56 | 0.42     | -95.23 | 51.28    | -13.00 | -45.44 | Vertical |



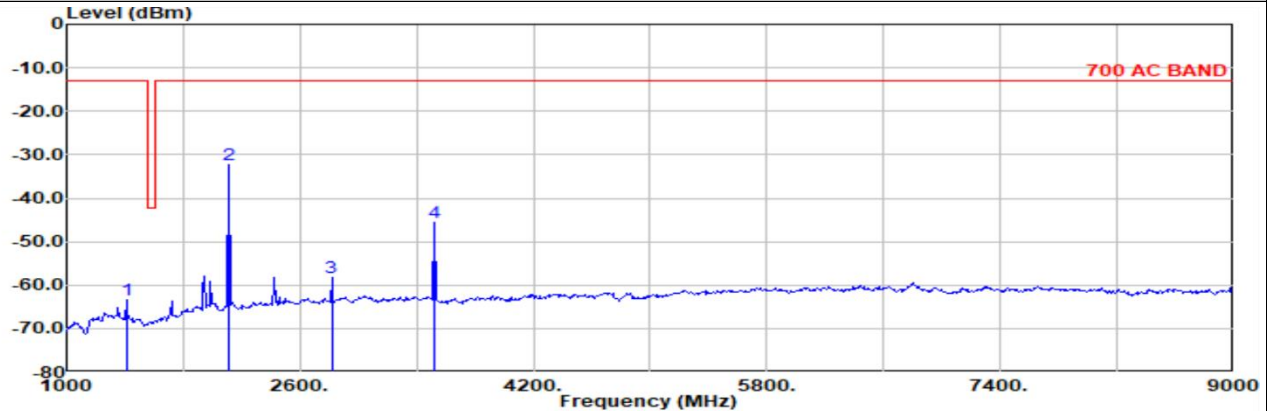
Ant. 5

Worst plane :NB With Accessory

Part 27H Mode 6

LTE CAT M1 B12 10M Ch23095 1RB0 QPSK

M

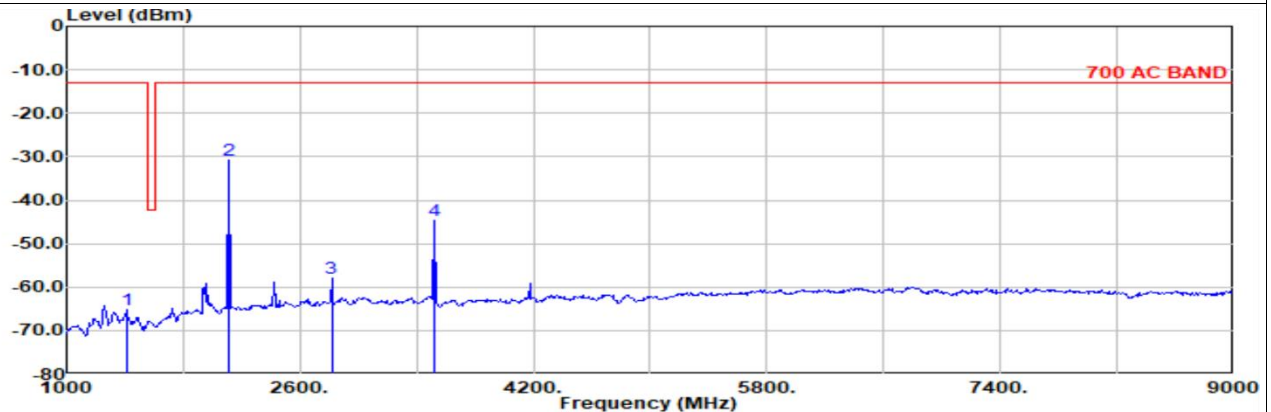


Site : 03CH07-HY

Condition: 700 AC BAND 3m HF\_ANT\_00075962 Horizontal

Mode : CatM1 Band 12 10M CH23095 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant<br>Factor | Amp\Cb<br>1 | Filter | EIRPCF | Readin<br>g | Limit  | Margin | Pol        |
|---|---------|--------|----------|---------------|-------------|--------|--------|-------------|--------|--------|------------|
|   | MHz     | dBm    |          | dB/m          | dB          | dB     | dB     | dBuV        | dBm    | dB     |            |
| 1 | 1408.00 | -63.44 | RMS      | 28.52         | -52.77      | 0.42   | -95.23 | 55.62       | -13.00 | -50.44 | Horizontal |
| 2 | 2112.00 | -32.40 | RMS      | 31.82         | -51.07      | 0.23   | -95.23 | 81.85       | -13.00 | -19.40 | Horizontal |
| 3 | 2816.00 | -58.39 | RMS      | 32.40         | -49.65      | 0.26   | -95.23 | 53.83       | -13.00 | -45.39 | Horizontal |
| 4 | 3520.00 | -45.68 | RMS      | 32.72         | -49.13      | 0.23   | -95.23 | 65.73       | -13.00 | -32.68 | Horizontal |



Site : 03CH07-HY

Condition: 700 AC BAND 3m HF\_ANT\_00075962 Vertical

Mode : CatM1 Band 12 10M CH23095 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant<br>Factor | Amp\Cb<br>1 | Filter | EIRPCF | Readin<br>g | Limit  | Margin | Pol      |
|---|---------|--------|----------|---------------|-------------|--------|--------|-------------|--------|--------|----------|
|   | MHz     | dBm    |          | dB/m          | dB          | dB     | dB     | dBuV        | dBm    | dB     |          |
| 1 | 1408.00 | -65.26 | RMS      | 28.52         | -52.77      | 0.42   | -95.23 | 53.80       | -13.00 | -52.26 | Vertical |
| 2 | 2112.00 | -30.83 | RMS      | 31.82         | -51.07      | 0.23   | -95.23 | 83.42       | -13.00 | -17.83 | Vertical |
| 3 | 2816.00 | -58.02 | RMS      | 32.40         | -49.65      | 0.26   | -95.23 | 54.20       | -13.00 | -45.02 | Vertical |
| 4 | 3520.00 | -44.67 | RMS      | 32.72         | -49.13      | 0.23   | -95.23 | 66.74       | -13.00 | -31.67 | Vertical |





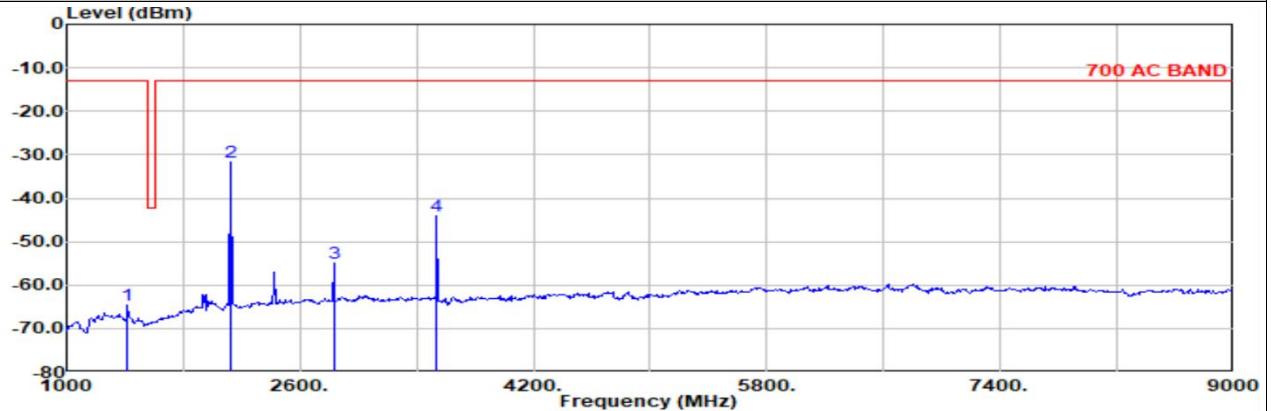
Ant. 5

Worst plane :NB With Accessory

## Part 27H Mode 6

LTE CAT M1 B12 10M Ch23130 1RB0 QPSK

H

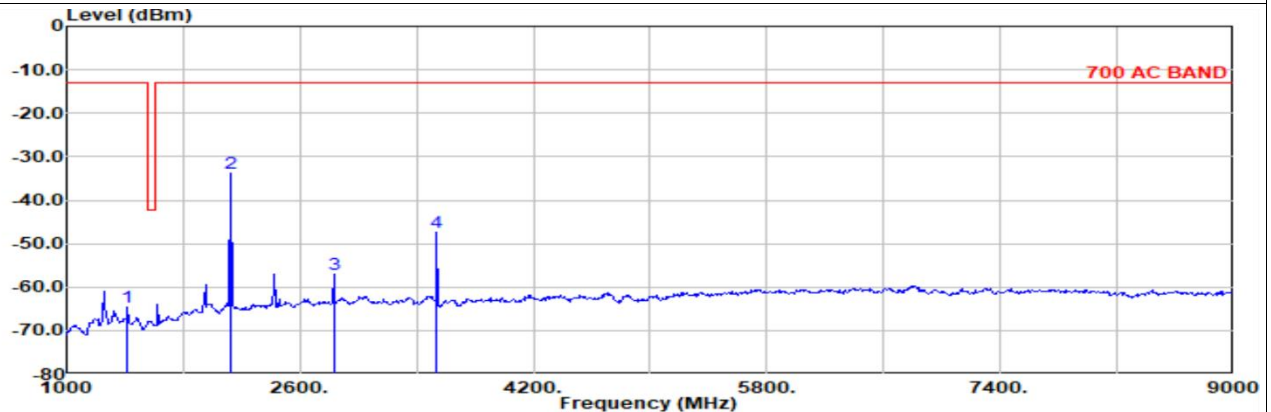


Site : 03CH07-HY

Condition: 700 AC BAND 3m HF\_ANT\_00075962 Horizontal

Mode : CatM1 Band 12 10M CH23130 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant<br>Factor | Amp\Cb<br>1 | Filter | EIRPCF | Readin<br>g | Limit  | Margin | Pol        |
|---|---------|--------|----------|---------------|-------------|--------|--------|-------------|--------|--------|------------|
|   | MHz     | dBm    |          | dB/m          | dB          | dB     | dB     | dBuV        | dBm    | dB     |            |
| 1 | 1416.00 | -64.72 | RMS      | 28.50         | -52.75      | 0.41   | -95.23 | 54.35       | -13.00 | -51.72 | Horizontal |
| 2 | 2120.00 | -31.65 | RMS      | 31.90         | -51.05      | 0.22   | -95.23 | 82.51       | -13.00 | -18.65 | Horizontal |
| 3 | 2832.00 | -55.07 | RMS      | 32.40         | -49.63      | 0.26   | -95.23 | 57.13       | -13.00 | -42.07 | Horizontal |
| 4 | 3536.00 | -43.98 | RMS      | 32.66         | -49.12      | 0.25   | -95.23 | 67.46       | -13.00 | -30.98 | Horizontal |



Site : 03CH07-HY

Condition: 700 AC BAND 3m HF\_ANT\_00075962 Vertical

Mode : CatM1 Band 12 10M CH23130 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant<br>Factor | Amp\Cb<br>1 | Filter | EIRPCF | Readin<br>g | Limit  | Margin | Pol      |
|---|---------|--------|----------|---------------|-------------|--------|--------|-------------|--------|--------|----------|
|   | MHz     | dBm    |          | dB/m          | dB          | dB     | dB     | dBuV        | dBm    | dB     |          |
| 1 | 1416.00 | -64.74 | RMS      | 28.50         | -52.75      | 0.41   | -95.23 | 54.33       | -13.00 | -51.74 | Vertical |
| 2 | 2120.00 | -33.87 | RMS      | 31.90         | -51.05      | 0.22   | -95.23 | 80.29       | -13.00 | -20.87 | Vertical |
| 3 | 2832.00 | -57.18 | RMS      | 32.40         | -49.63      | 0.26   | -95.23 | 55.02       | -13.00 | -44.18 | Vertical |
| 4 | 3536.00 | -47.40 | RMS      | 32.66         | -49.12      | 0.25   | -95.23 | 64.04       | -13.00 | -34.40 | Vertical |



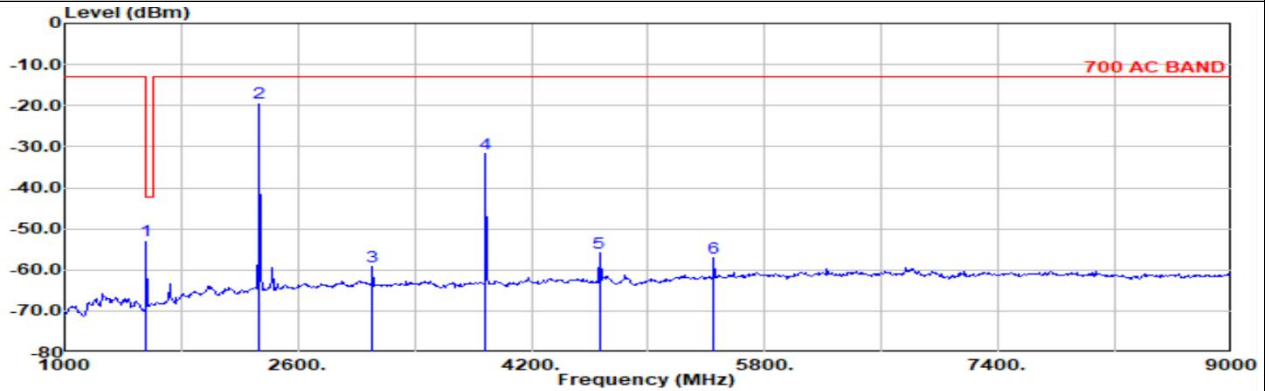
Ant. 5

Worst plane :NB With Accessory

## Part 27F Mode 1

LTE CAT M1 B13 5M Ch23205 1RB0 QPSK

L

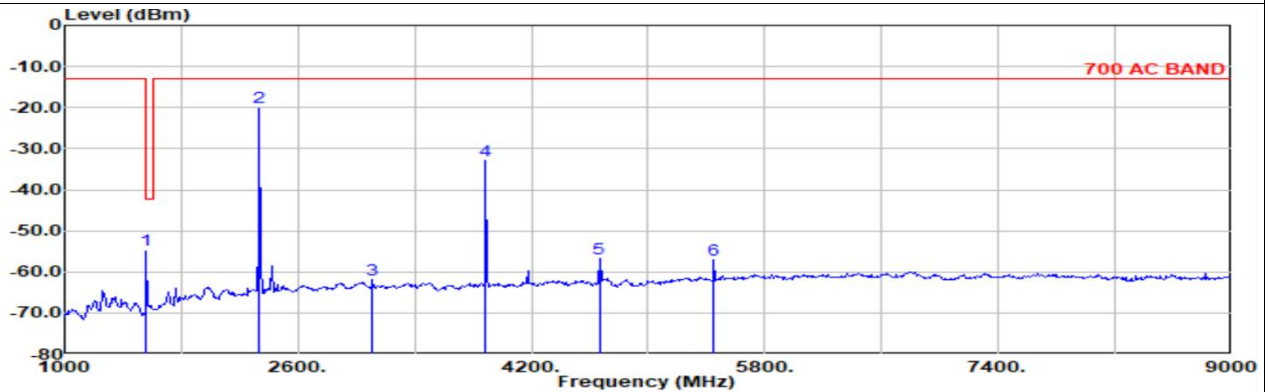


Site : 03CH07-HY

Condition: 700 AC BAND 3m HF\_ANT\_00075962 Horizontal

Mode : CatM1 Band 13 5M CH23205 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant    | Amp\Cb | Filter | EIRPCF | Readin | Limit  | Margin | Pol        |
|---|---------|--------|----------|--------|--------|--------|--------|--------|--------|--------|------------|
|   | MHz     | dBm    |          | Factor | 1      |        |        | g      |        |        |            |
| 1 | 1560.00 | -52.71 | RMS      | 27.70  | -52.34 | 0.33   | -95.23 | 66.83  | -42.15 | -10.56 | Horizontal |
| 2 | 2336.00 | -19.29 | RMS      | 32.10  | -50.65 | 0.33   | -95.23 | 94.16  | -13.00 | -6.29  | Horizontal |
| 3 | 3112.00 | -59.19 | RMS      | 32.65  | -49.33 | 0.18   | -95.23 | 52.54  | -13.00 | -46.19 | Horizontal |
| 4 | 3888.00 | -31.85 | RMS      | 33.42  | -48.87 | 0.50   | -95.23 | 78.33  | -13.00 | -18.85 | Horizontal |
| 5 | 4664.00 | -55.72 | RMS      | 34.07  | -47.50 | 0.18   | -95.23 | 52.76  | -13.00 | -42.72 | Horizontal |
| 6 | 5448.00 | -57.11 | RMS      | 34.80  | -44.48 | 0.35   | -95.23 | 47.45  | -13.00 | -44.11 | Horizontal |



Site : 03CH07-HY

Condition: 700 AC BAND 3m HF\_ANT\_00075962 Vertical

Mode : CatM1 Band 13 5M CH23205 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant    | Amp\Cb | Filter | EIRPCF | Readin | Limit  | Margin | Pol      |
|---|---------|--------|----------|--------|--------|--------|--------|--------|--------|--------|----------|
|   | MHz     | dBm    |          | Factor | 1      |        |        | g      |        |        |          |
| 1 | 1560.00 | -54.52 | RMS      | 27.70  | -52.34 | 0.33   | -95.23 | 65.02  | -42.15 | -12.37 | Vertical |
| 2 | 2336.00 | -19.79 | RMS      | 32.10  | -50.65 | 0.33   | -95.23 | 93.66  | -13.00 | -6.79  | Vertical |
| 3 | 3112.00 | -61.90 | RMS      | 32.65  | -49.33 | 0.18   | -95.23 | 49.83  | -13.00 | -48.90 | Vertical |
| 4 | 3888.00 | -32.99 | RMS      | 33.42  | -48.87 | 0.50   | -95.23 | 77.19  | -13.00 | -19.99 | Vertical |
| 5 | 4664.00 | -56.74 | RMS      | 34.07  | -47.50 | 0.18   | -95.23 | 51.74  | -13.00 | -43.74 | Vertical |
| 6 | 5448.00 | -56.92 | RMS      | 34.80  | -44.48 | 0.35   | -95.23 | 47.64  | -13.00 | -43.92 | Vertical |



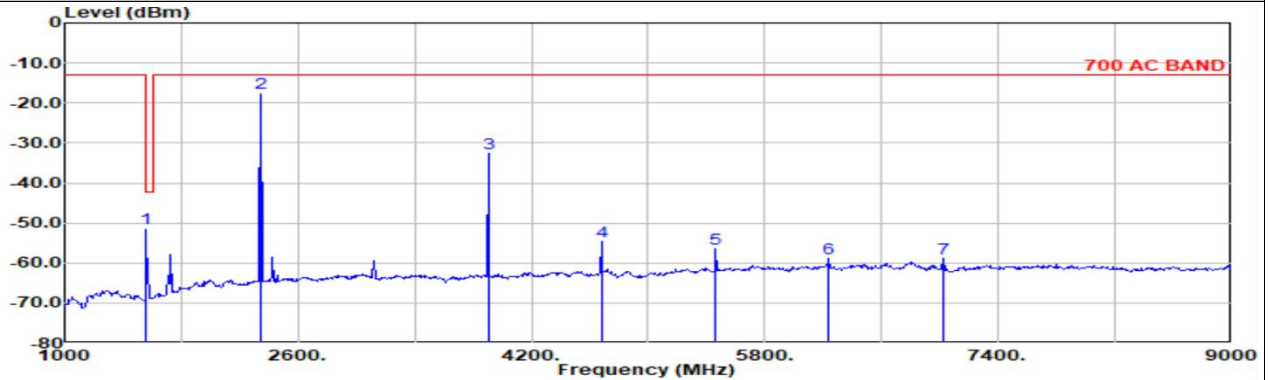
Ant. 5

Worst plane :NB With Accessory

## Part 27F Mode 1

LTE CAT M1 B13 5M Ch23230 1RB0 QPSK

M

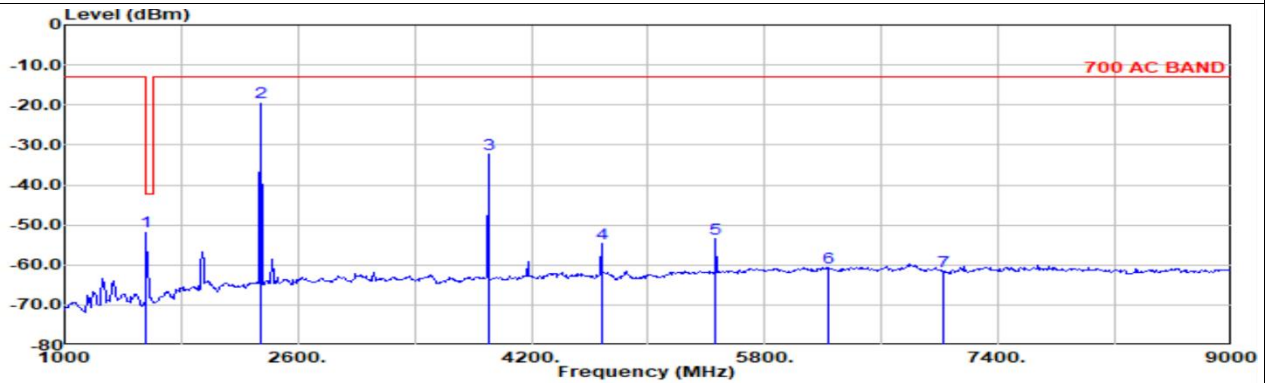


Site : 03CH07-HY

Condition: 700 AC BAND 3m HF\_ANT\_00075962 Horizontal

Mode : CatM1 Band 13 5M CH23230 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter 1 | EIRPCF | Readin g | Limit  | Margin | Pol        |
|---|---------|--------|----------|------------|--------|----------|--------|----------|--------|--------|------------|
|   | MHz     | dBm    |          | dB/m       | dB     | dB       | dB     | dBuV     | dBm    | dB     |            |
| 1 | 1560.00 | -51.32 | RMS      | 27.70      | -52.34 | 0.33     | -95.23 | 68.22    | -42.15 | -9.17  | Horizontal |
| 2 | 2344.00 | -17.56 | RMS      | 32.10      | -50.64 | 0.33     | -95.23 | 95.88    | -13.00 | -4.56  | Horizontal |
| 3 | 3904.00 | -32.55 | RMS      | 33.39      | -48.87 | 0.50     | -95.23 | 77.66    | -13.00 | -19.55 | Horizontal |
| 4 | 4680.00 | -54.57 | RMS      | 34.04      | -47.46 | 0.18     | -95.23 | 53.90    | -13.00 | -41.57 | Horizontal |
| 5 | 5464.00 | -56.40 | RMS      | 34.80      | -44.40 | 0.36     | -95.23 | 48.07    | -13.00 | -43.40 | Horizontal |
| 6 | 6240.00 | -58.87 | RMS      | 35.62      | -42.50 | 0.16     | -95.23 | 43.08    | -13.00 | -45.87 | Horizontal |
| 7 | 7024.00 | -58.85 | RMS      | 35.65      | -43.00 | 0.31     | -95.23 | 43.42    | -13.00 | -45.85 | Horizontal |



Site : 03CH07-HY

Condition: 700 AC BAND 3m HF\_ANT\_00075962 Vertical

Mode : CatM1 Band 13 5M CH23230 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter 1 | EIRPCF | Readin g | Limit  | Margin | Pol      |
|---|---------|--------|----------|------------|--------|----------|--------|----------|--------|--------|----------|
|   | MHz     | dBm    |          | dB/m       | dB     | dB       | dB     | dBuV     | dBm    | dB     |          |
| 1 | 1560.00 | -51.72 | RMS      | 27.70      | -52.34 | 0.33     | -95.23 | 67.82    | -42.15 | -9.57  | Vertical |
| 2 | 2344.00 | -19.39 | RMS      | 32.10      | -50.64 | 0.33     | -95.23 | 94.05    | -13.00 | -6.39  | Vertical |
| 3 | 3904.00 | -32.27 | RMS      | 33.39      | -48.87 | 0.50     | -95.23 | 77.94    | -13.00 | -19.27 | Vertical |
| 4 | 4680.00 | -54.70 | RMS      | 34.04      | -47.46 | 0.18     | -95.23 | 53.77    | -13.00 | -41.70 | Vertical |
| 5 | 5464.00 | -53.30 | RMS      | 34.80      | -44.40 | 0.36     | -95.23 | 51.17    | -13.00 | -40.30 | Vertical |
| 6 | 6240.00 | -60.72 | RMS      | 35.62      | -42.50 | 0.16     | -95.23 | 41.23    | -13.00 | -47.72 | Vertical |
| 7 | 7024.00 | -61.60 | RMS      | 35.65      | -43.00 | 0.31     | -95.23 | 40.67    | -13.00 | -48.60 | Vertical |





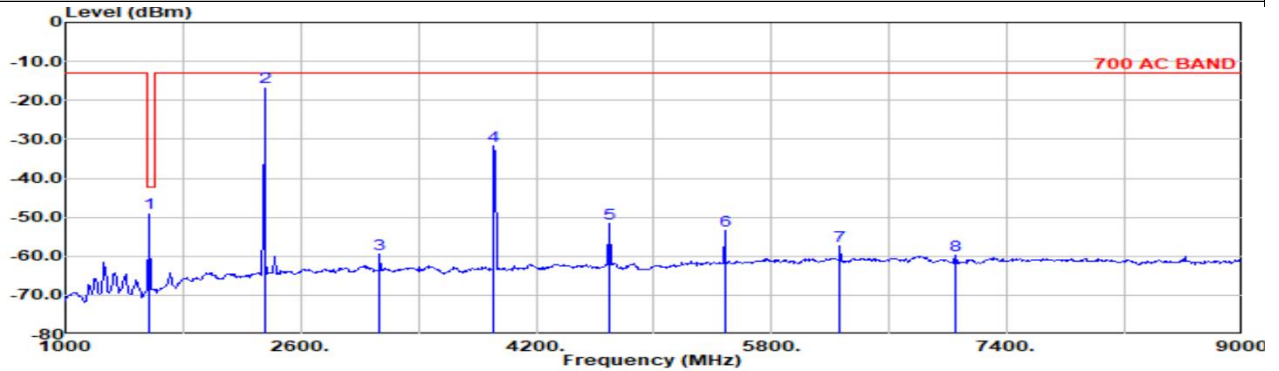
Ant. 5

Worst plane :NB With Accessory

Part 27F Mode 1

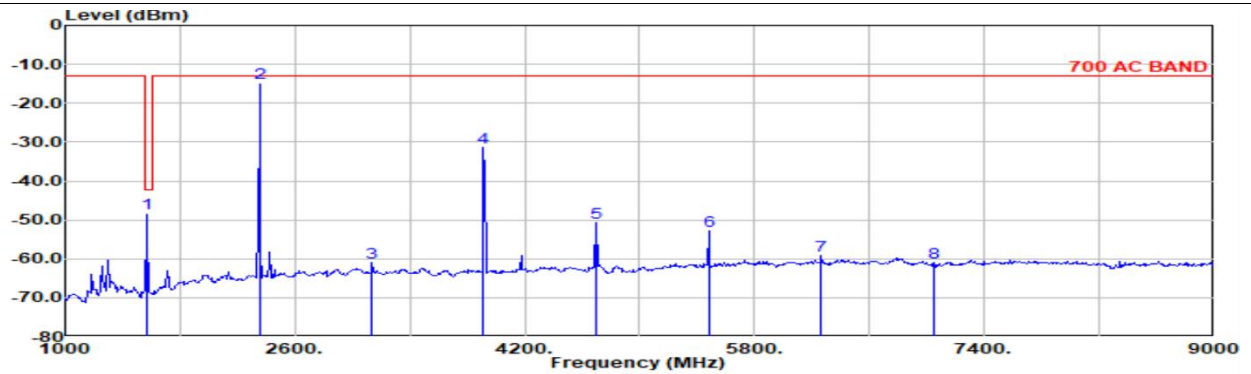
LTE CAT M1 B13 5M Ch23255 1RB0 QPSK

H



Site : 03CH07-HY  
Condition: 700 AC BAND 3m HF\_ANT\_00075962 Horizontal  
Mode : CatM1 Band 13 5M CH23255 1RB0 QPSK

|   | Freq    |        | Detector | Ant Factor |        | Amp\Cb |        | Filter | EIRPCF |        | Readin g   | Limit | Margin | Pol |
|---|---------|--------|----------|------------|--------|--------|--------|--------|--------|--------|------------|-------|--------|-----|
|   | MHz     | dBm    |          | dB/m       | dB     | dB     | dB     |        | dB     | dB     |            | dBm   | dB     |     |
| 1 | 1568.00 | -48.90 | RMS      | 27.70      | -52.32 | 0.33   | -95.23 | 70.62  | -42.15 | -6.75  | Horizontal |       |        |     |
| 2 | 2352.00 | -16.67 | RMS      | 32.08      | -50.62 | 0.34   | -95.23 | 96.76  | -13.00 | -3.67  | Horizontal |       |        |     |
| 3 | 3136.00 | -59.57 | RMS      | 32.56      | -49.32 | 0.17   | -95.23 | 52.25  | -13.00 | -46.57 | Horizontal |       |        |     |
| 4 | 3912.00 | -31.75 | RMS      | 33.38      | -48.87 | 0.50   | -95.23 | 78.47  | -13.00 | -18.75 | Horizontal |       |        |     |
| 5 | 4696.00 | -51.60 | RMS      | 34.01      | -47.42 | 0.17   | -95.23 | 56.87  | -13.00 | -38.60 | Horizontal |       |        |     |
| 6 | 5480.00 | -53.38 | RMS      | 34.80      | -44.32 | 0.36   | -95.23 | 51.01  | -13.00 | -40.38 | Horizontal |       |        |     |
| 7 | 6264.00 | -57.50 | RMS      | 35.54      | -42.46 | 0.18   | -95.23 | 44.47  | -13.00 | -44.50 | Horizontal |       |        |     |
| 8 | 7048.00 | -59.73 | RMS      | 35.60      | -43.00 | 0.33   | -95.23 | 42.57  | -13.00 | -46.73 | Horizontal |       |        |     |



Site : 03CH07-HY  
Condition: 700 AC BAND 3m HF\_ANT\_00075962 Vertical  
Mode : CatM1 Band 13 5M CH23255 1RB0 QPSK

|   | Freq    |        | Detector | Ant Factor |        | Amp\Cb |        | Filter | EIRPCF |        | Readin g | Limit | Margin | Pol |
|---|---------|--------|----------|------------|--------|--------|--------|--------|--------|--------|----------|-------|--------|-----|
|   | MHz     | dBm    |          | dB/m       | dB     | dB     | dB     |        | dB     | dB     |          | dBm   | dB     |     |
| 1 | 1568.00 | -48.18 | RMS      | 27.70      | -52.32 | 0.33   | -95.23 | 71.34  | -42.15 | -6.03  | Vertical |       |        |     |
| 2 | 2352.00 | -14.90 | RMS      | 32.08      | -50.62 | 0.34   | -95.23 | 98.53  | -13.00 | -1.90  | Vertical |       |        |     |
| 3 | 3136.00 | -60.99 | RMS      | 32.56      | -49.32 | 0.17   | -95.23 | 50.83  | -13.00 | -47.99 | Vertical |       |        |     |
| 4 | 3912.00 | -31.41 | RMS      | 33.38      | -48.87 | 0.50   | -95.23 | 78.81  | -13.00 | -18.41 | Vertical |       |        |     |
| 5 | 4696.00 | -50.80 | RMS      | 34.01      | -47.42 | 0.17   | -95.23 | 57.67  | -13.00 | -37.80 | Vertical |       |        |     |
| 6 | 5480.00 | -52.86 | RMS      | 34.80      | -44.32 | 0.36   | -95.23 | 51.53  | -13.00 | -39.86 | Vertical |       |        |     |
| 7 | 6264.00 | -59.25 | RMS      | 35.54      | -42.46 | 0.18   | -95.23 | 42.72  | -13.00 | -46.25 | Vertical |       |        |     |
| 8 | 7048.00 | -60.86 | RMS      | 35.60      | -43.00 | 0.33   | -95.23 | 41.44  | -13.00 | -47.86 | Vertical |       |        |     |



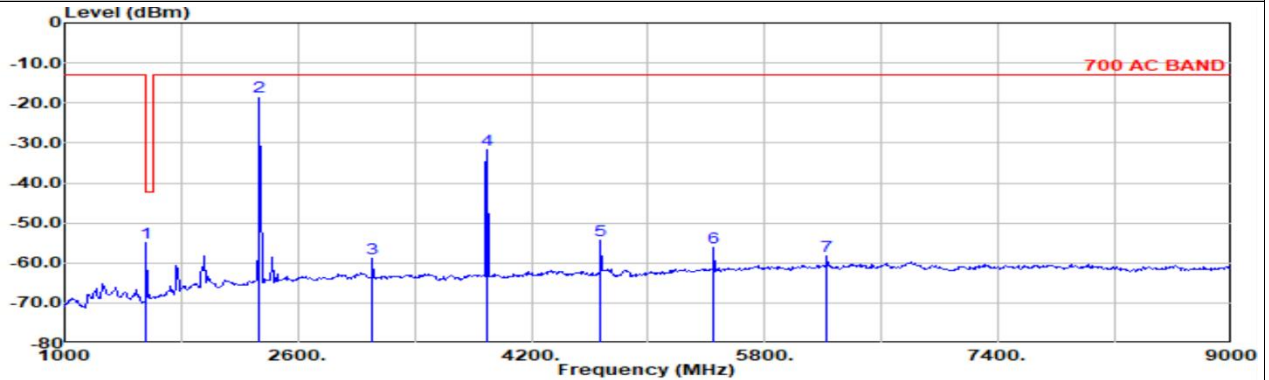
Ant. 5

Worst plane :NB With Accessory

## Part 27F Mode 2

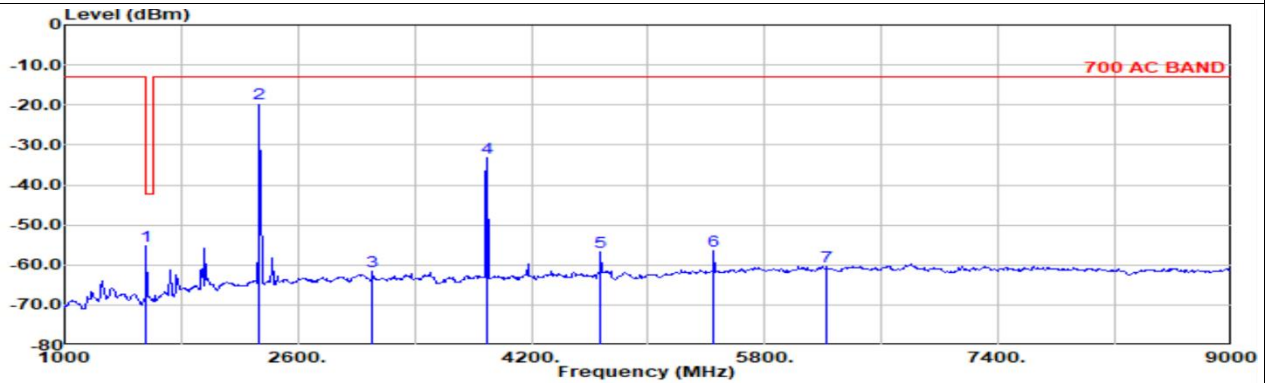
LTE CAT M1 B13 10M Ch23230 1RB0 QPSK

M



Site : 03CH07-HY  
Condition: 700 AC BAND 3m HF\_ANT\_00075962 Horizontal  
Mode : CatM1 Band 13 10M CH23230 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter 1 | EIRPCF | Readin g | Limit  | Margin | Pol        |
|---|---------|--------|----------|------------|--------|----------|--------|----------|--------|--------|------------|
|   | MHz     | dBm    |          |            | dB/m   | dB       | dB     | dBuV     | dBm    | dB     |            |
| 1 | 1560.00 | -54.88 | RMS      | 27.70      | -52.34 | 0.33     | -95.23 | 64.66    | -42.15 | -12.73 | Horizontal |
| 2 | 2336.00 | -18.32 | RMS      | 32.10      | -50.65 | 0.33     | -95.23 | 95.13    | -13.00 | -5.32  | Horizontal |
| 3 | 3112.00 | -58.94 | RMS      | 32.65      | -49.33 | 0.18     | -95.23 | 52.79    | -13.00 | -45.94 | Horizontal |
| 4 | 3896.00 | -31.72 | RMS      | 33.41      | -48.87 | 0.50     | -95.23 | 78.47    | -13.00 | -18.72 | Horizontal |
| 5 | 4672.00 | -54.45 | RMS      | 34.06      | -47.48 | 0.18     | -95.23 | 54.02    | -13.00 | -41.45 | Horizontal |
| 6 | 5448.00 | -56.20 | RMS      | 34.80      | -44.48 | 0.35     | -95.23 | 48.36    | -13.00 | -43.20 | Horizontal |
| 7 | 6224.00 | -58.39 | RMS      | 35.65      | -42.52 | 0.14     | -95.23 | 43.57    | -13.00 | -45.39 | Horizontal |



Site : 03CH07-HY  
Condition: 700 AC BAND 3m HF\_ANT\_00075962 Vertical  
Mode : CatM1 Band 13 10M CH23230 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter 1 | EIRPCF | Readin g | Limit  | Margin | Pol      |
|---|---------|--------|----------|------------|--------|----------|--------|----------|--------|--------|----------|
|   | MHz     | dBm    |          |            | dB/m   | dB       | dB     | dBuV     | dBm    | dB     |          |
| 1 | 1560.00 | -55.14 | RMS      | 27.70      | -52.34 | 0.33     | -95.23 | 64.40    | -42.15 | -12.99 | Vertical |
| 2 | 2336.00 | -19.77 | RMS      | 32.10      | -50.65 | 0.33     | -95.23 | 93.68    | -13.00 | -6.77  | Vertical |
| 3 | 3112.00 | -61.71 | RMS      | 32.65      | -49.33 | 0.18     | -95.23 | 50.02    | -13.00 | -48.71 | Vertical |
| 4 | 3896.00 | -33.17 | RMS      | 33.41      | -48.87 | 0.50     | -95.23 | 77.02    | -13.00 | -20.17 | Vertical |
| 5 | 4672.00 | -56.71 | RMS      | 34.06      | -47.48 | 0.18     | -95.23 | 51.76    | -13.00 | -43.71 | Vertical |
| 6 | 5448.00 | -56.52 | RMS      | 34.80      | -44.48 | 0.35     | -95.23 | 48.04    | -13.00 | -43.52 | Vertical |
| 7 | 6224.00 | -60.47 | RMS      | 35.65      | -42.52 | 0.14     | -95.23 | 41.49    | -13.00 | -47.47 | Vertical |



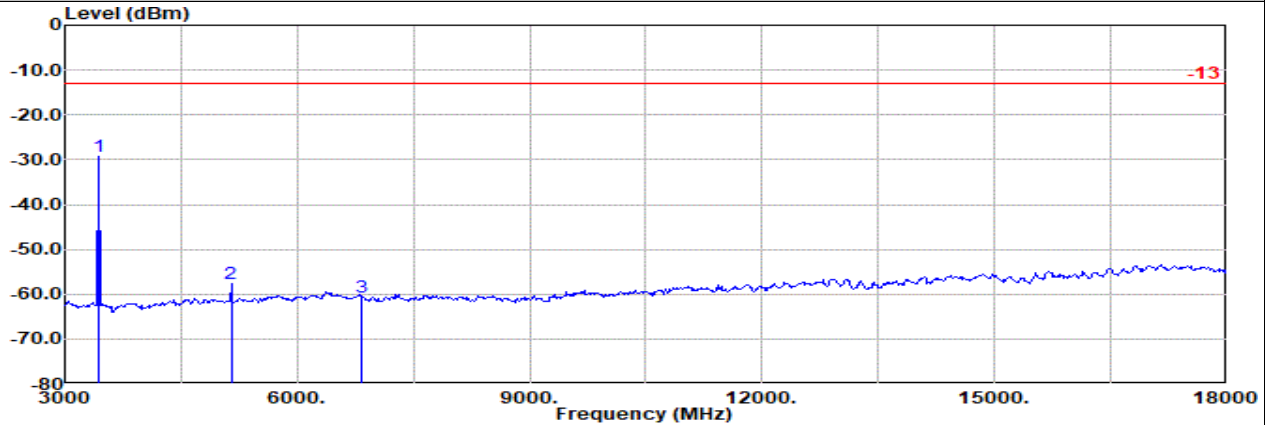
Ant. 5

Worst plane :TB (X) With Accessory

Part 27L Mode 5

LTE CAT M1 B66 20M Ch132072 1RB0 QPSK

L

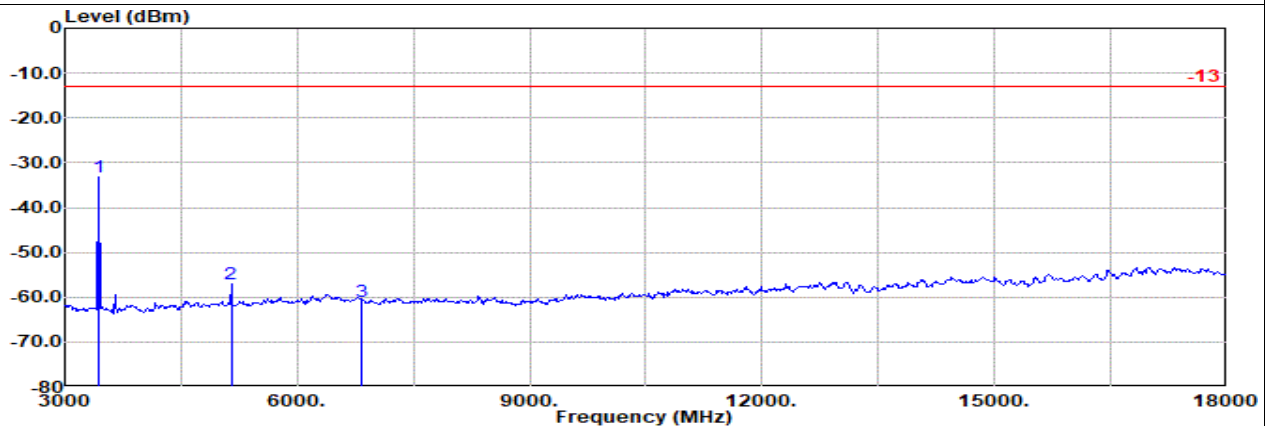


Site : 03CH07-HY

Condition: -13 3m HF\_ANT\_00075962 Horizontal

Mode : Cat M1 Band 66 20M CH132072 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter 1 | EIRPCF | Readin g | Limit  | Margin | Pol        |
|---|---------|--------|----------|------------|--------|----------|--------|----------|--------|--------|------------|
|   | MHz     | dBm    |          |            |        |          |        |          |        |        |            |
| 1 | 3435.00 | -29.23 | RMS      | 33.10      | -49.13 | 0.79     | -95.23 | 81.24    | -13.00 | -16.23 | Horizontal |
| 2 | 5145.00 | -57.74 | RMS      | 34.27      | -45.86 | 0.43     | -95.23 | 48.65    | -13.00 | -44.74 | Horizontal |
| 3 | 6840.00 | -60.56 | RMS      | 35.72      | -42.74 | 0.65     | -95.23 | 41.04    | -13.00 | -47.56 | Horizontal |



Site : 03CH07-HY

Condition: -13 3m HF\_ANT\_00075962 Vertical

Mode : Cat M1 Band 66 20M CH132072 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter 1 | EIRPCF | Readin g | Limit  | Margin | Pol      |
|---|---------|--------|----------|------------|--------|----------|--------|----------|--------|--------|----------|
|   | MHz     | dBm    |          |            |        |          |        |          |        |        |          |
| 1 | 3435.00 | -33.13 | RMS      | 33.10      | -49.13 | 0.79     | -95.23 | 77.34    | -13.00 | -20.13 | Vertical |
| 2 | 5145.00 | -57.13 | RMS      | 34.27      | -45.86 | 0.43     | -95.23 | 49.26    | -13.00 | -44.13 | Vertical |
| 3 | 6840.00 | -60.96 | RMS      | 35.72      | -42.74 | 0.65     | -95.23 | 40.64    | -13.00 | -47.96 | Vertical |



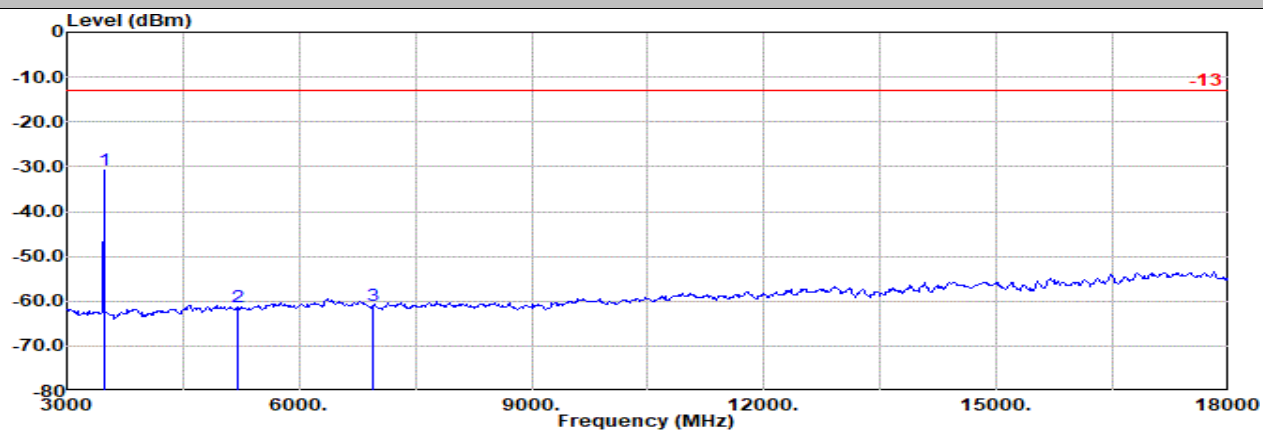
Ant. 5

Worst plane :TB (X) With Accessory

## Part 27L Mode 5

LTE CAT M1 B66 20M Ch132322 1RB0 QPSK

M

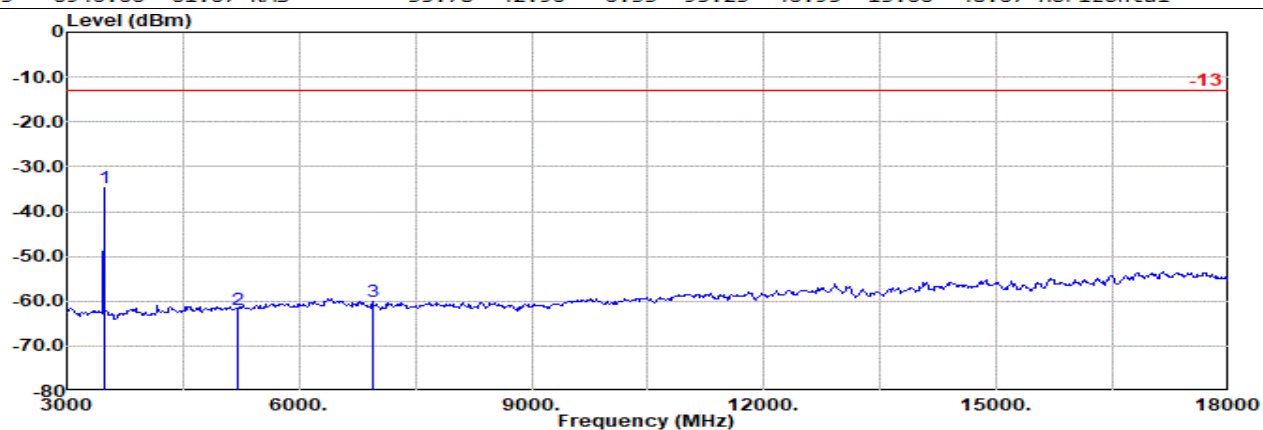


Site : 03CH07-HY

Condition: -13 3m HF\_ANT\_00075962 Horizontal

Mode : Cat M1 Band 66 20M CH132322 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter 1 | EIRPCF | Readin g | Limit  | Margin | Pol        |
|---|---------|--------|----------|------------|--------|----------|--------|----------|--------|--------|------------|
|   | MHz     | dBm    |          |            |        |          |        |          |        |        |            |
| 1 | 3480.00 | -30.74 | RMS      | 32.92      | -49.13 | 0.75     | -95.23 | 79.95    | -13.00 | -17.74 | Horizontal |
| 2 | 5205.00 | -61.41 | RMS      | 34.52      | -45.54 | 0.31     | -95.23 | 44.53    | -13.00 | -48.41 | Horizontal |
| 3 | 6940.00 | -61.07 | RMS      | 35.78      | -42.90 | 0.33     | -95.23 | 40.95    | -13.00 | -48.07 | Horizontal |



Site : 03CH07-HY

Condition: -13 3m HF\_ANT\_00075962 Vertical

Mode : Cat M1 Band 66 20M CH132322 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter 1 | EIRPCF | Readin g | Limit  | Margin | Pol      |
|---|---------|--------|----------|------------|--------|----------|--------|----------|--------|--------|----------|
|   | MHz     | dBm    |          |            |        |          |        |          |        |        |          |
| 1 | 3480.00 | -34.60 | RMS      | 32.92      | -49.13 | 0.75     | -95.23 | 76.09    | -13.00 | -21.60 | Vertical |
| 2 | 5205.00 | -61.84 | RMS      | 34.52      | -45.54 | 0.31     | -95.23 | 44.10    | -13.00 | -48.84 | Vertical |
| 3 | 6940.00 | -60.07 | RMS      | 35.78      | -42.90 | 0.33     | -95.23 | 41.95    | -13.00 | -47.07 | Vertical |



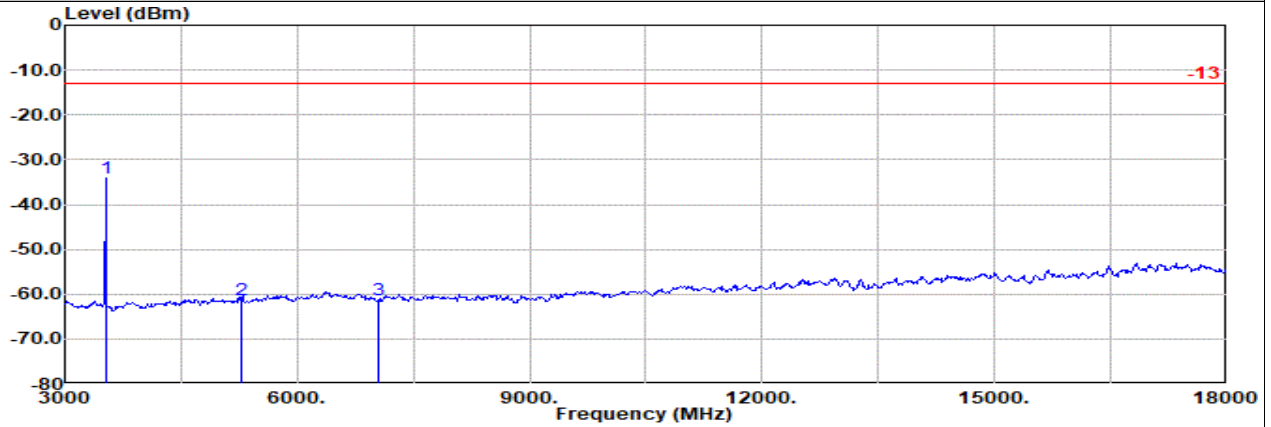
Ant. 5

Worst plane :TB (X) With Accessory

## Part 27L Mode 5

LTE CAT M1 B66 20M Ch132572 1RB0 QPSK

H

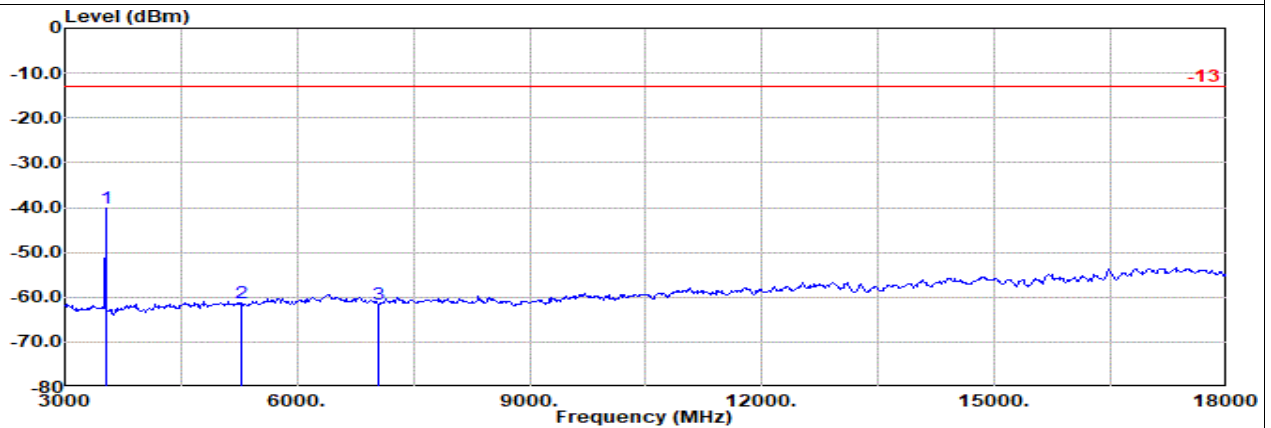


Site : 03CH07-HY

Condition: -13 3m HF\_ANT\_00075962 Horizontal

Mode : Cat M1 Band 66 20M CH132572 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb<br>1 | Filter | EIRPCF | Readin<br>g | Limit  | Margin | Pol        |
|---|---------|--------|----------|------------|-------------|--------|--------|-------------|--------|--------|------------|
|   | MHz     | dBm    |          | dB/m       | dB          | dB     | dB     | dBuV        | dBm    | dB     |            |
| 1 | 3525.00 | -34.01 | RMS      | 32.70      | -49.13      | 0.71   | -95.23 | 76.94       | -13.00 | -21.01 | Horizontal |
| 2 | 5280.00 | -61.26 | RMS      | 34.64      | -45.22      | 0.36   | -95.23 | 44.19       | -13.00 | -48.26 | Horizontal |
| 3 | 7040.00 | -61.21 | RMS      | 35.62      | -43.00      | 0.22   | -95.23 | 41.18       | -13.00 | -48.21 | Horizontal |



Site : 03CH07-HY

Condition: -13 3m HF\_ANT\_00075962 Vertical

Mode : Cat M1 Band 66 20M CH132572 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb<br>l | Filter | EIRPCF | Readin<br>g | Limit  | Margin | Pol      |
|---|---------|--------|----------|------------|-------------|--------|--------|-------------|--------|--------|----------|
|   | MHz     | dBm    |          | dB/m       | dB          |        | dB     | dBuV        | dBm    | dB     |          |
| 1 | 3525.00 | -40.28 | RMS      | 32.70      | -49.13      | 0.71   | -95.23 | 70.67       | -13.00 | -27.28 | Vertical |
| 2 | 5280.00 | -61.32 | RMS      | 34.64      | -45.22      | 0.36   | -95.23 | 44.13       | -13.00 | -48.32 | Vertical |
| 3 | 7040.00 | -61.54 | RMS      | 35.62      | -43.00      | 0.22   | -95.23 | 40.85       | -13.00 | -48.54 | Vertical |





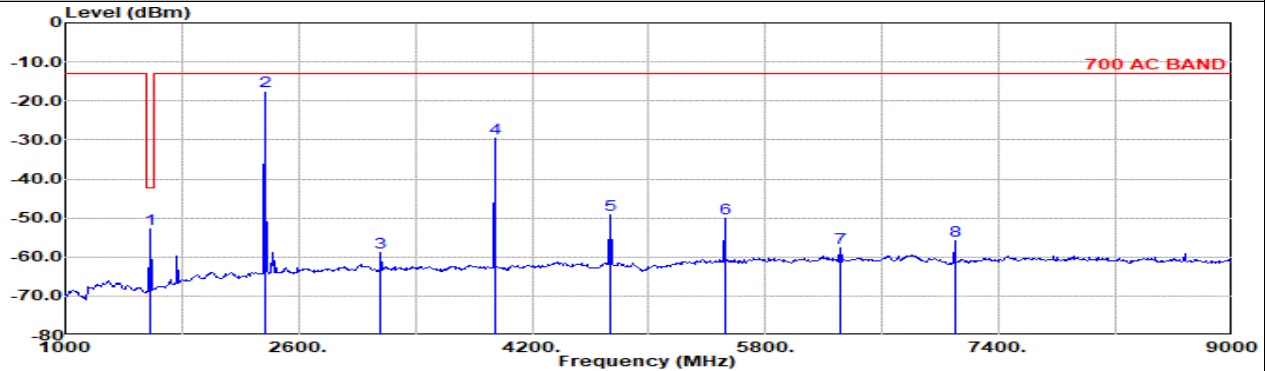
Ant. 5

Worst plane :NB With Accessory

Part 90R Mode 7

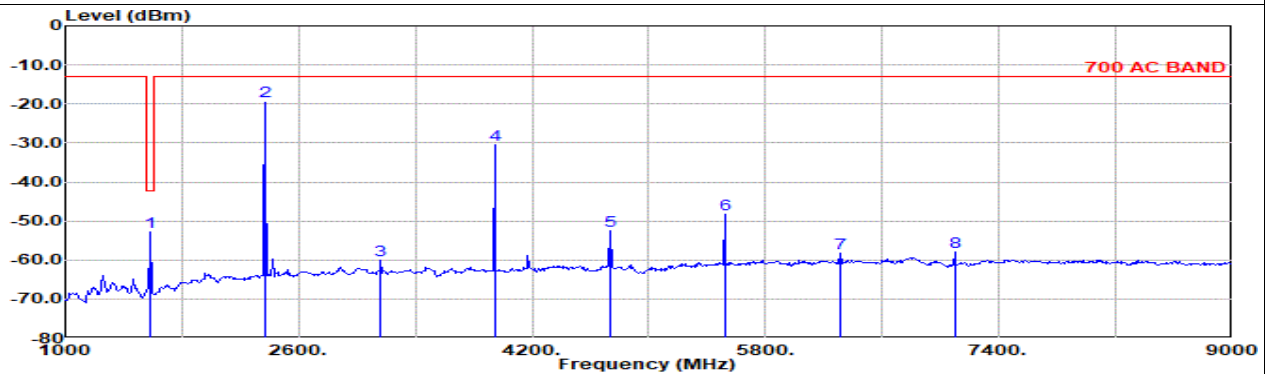
LTE CAT M1 B14 5M Ch23305 1RB0 QPSK

L



Site : 03CH07-HY  
Condition: 700 AC BAND 3m HF\_ANT\_00075962 Horizontal  
Mode : CatM1 Band 14 5M CH23305 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter | EIRPCF | Readin | Limit  | Margin | Pol        |
|---|---------|--------|----------|------------|--------|--------|--------|--------|--------|--------|------------|
|   | MHz     | dBm    |          |            | dB     | dB     | dB     | dBuV   | dBm    | dB     |            |
| 1 | 1584.00 | -52.85 | RMS      | 27.78      | -52.28 | 0.32   | -95.23 | 66.56  | -42.15 | -10.70 | Horizontal |
| 2 | 2368.00 | -17.40 | RMS      | 31.92      | -50.59 | 0.36   | -95.23 | 96.14  | -13.00 | -4.40  | Horizontal |
| 3 | 3160.00 | -58.87 | RMS      | 32.50      | -49.31 | 0.15   | -95.23 | 53.02  | -13.00 | -45.87 | Horizontal |
| 4 | 3944.00 | -29.45 | RMS      | 33.31      | -48.85 | 0.50   | -95.23 | 80.82  | -13.00 | -16.45 | Horizontal |
| 5 | 4736.00 | -49.07 | RMS      | 34.07      | -47.32 | 0.16   | -95.23 | 59.25  | -13.00 | -36.07 | Horizontal |
| 6 | 5520.00 | -50.04 | RMS      | 34.76      | -44.18 | 0.38   | -95.23 | 54.23  | -13.00 | -37.04 | Horizontal |
| 7 | 6312.00 | -57.73 | RMS      | 35.45      | -42.39 | 0.22   | -95.23 | 44.22  | -13.00 | -44.73 | Horizontal |
| 8 | 7096.00 | -55.91 | RMS      | 35.60      | -43.01 | 0.35   | -95.23 | 46.38  | -13.00 | -42.91 | Horizontal |



Site : 03CH07-HY  
Condition: 700 AC BAND 3m HF\_ANT\_00075962 Vertical  
Mode : CatM1 Band 14 5M CH23305 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter | EIRPCF | Readin | Limit  | Margin | Pol      |
|---|---------|--------|----------|------------|--------|--------|--------|--------|--------|--------|----------|
|   | MHz     | dBm    |          |            | dB     | dB     | dB     | dBuV   | dBm    | dB     |          |
| 1 | 1584.00 | -52.91 | RMS      | 27.78      | -52.28 | 0.32   | -95.23 | 66.50  | -42.15 | -10.76 | Vertical |
| 2 | 2368.00 | -19.27 | RMS      | 31.92      | -50.59 | 0.36   | -95.23 | 94.27  | -13.00 | -6.27  | Vertical |
| 3 | 3160.00 | -59.94 | RMS      | 32.50      | -49.31 | 0.15   | -95.23 | 51.95  | -13.00 | -46.94 | Vertical |
| 4 | 3944.00 | -30.58 | RMS      | 33.31      | -48.85 | 0.50   | -95.23 | 79.69  | -13.00 | -17.58 | Vertical |
| 5 | 4736.00 | -52.41 | RMS      | 34.07      | -47.32 | 0.16   | -95.23 | 55.91  | -13.00 | -39.41 | Vertical |
| 6 | 5520.00 | -48.45 | RMS      | 34.76      | -44.18 | 0.38   | -95.23 | 55.82  | -13.00 | -35.45 | Vertical |
| 7 | 6312.00 | -58.22 | RMS      | 35.45      | -42.39 | 0.22   | -95.23 | 43.73  | -13.00 | -45.22 | Vertical |
| 8 | 7096.00 | -57.91 | RMS      | 35.60      | -43.01 | 0.35   | -95.23 | 44.38  | -13.00 | -44.91 | Vertical |



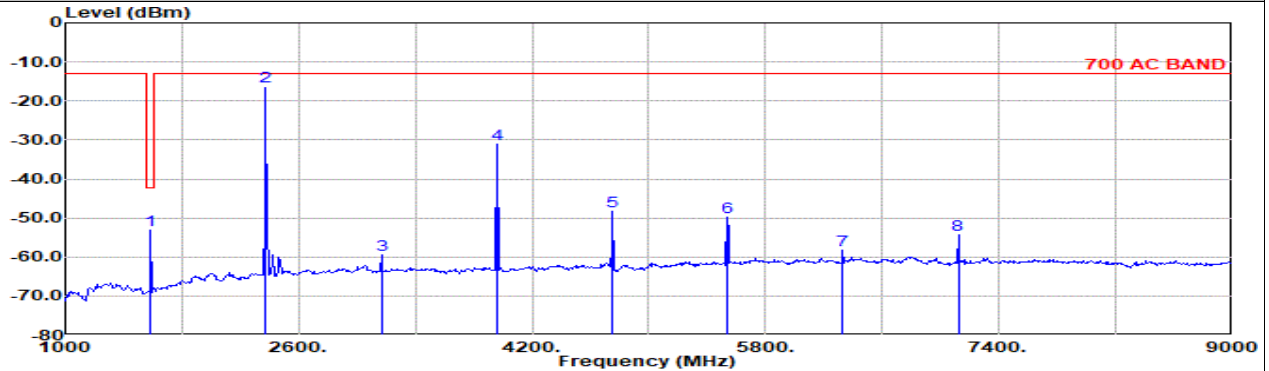
Ant. 5

Worst plane :NB With Accessory

Part 90R Mode 7

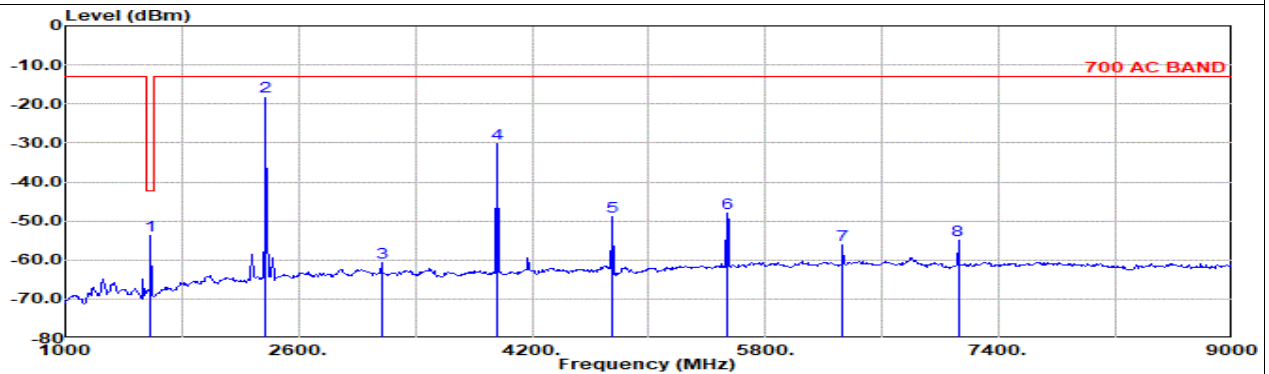
LTE CAT M1 B14 5M Ch23330 1RB0 QPSK

M



Site : 03CH07-HY  
Condition: 700 AC BAND 3m HF\_ANT\_00075962 Horizontal  
Mode : CatM1 Band 14 5M CH23330 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter | EIRPCF | Readin | Limit  | Margin | Pol        |
|---|---------|--------|----------|------------|--------|--------|--------|--------|--------|--------|------------|
|   | MHz     | dBm    |          |            | dB     | dB     | dB     | dBuV   | dBm    | dB     |            |
| 1 | 1584.00 | -53.02 | RMS      | 27.78      | -52.28 | 0.32   | -95.23 | 66.39  | -42.15 | -10.87 | Horizontal |
| 2 | 2376.00 | -16.38 | RMS      | 31.90      | -50.58 | 0.37   | -95.23 | 97.16  | -13.00 | -3.38  | Horizontal |
| 3 | 3168.00 | -59.58 | RMS      | 32.50      | -49.30 | 0.15   | -95.23 | 52.30  | -13.00 | -46.58 | Horizontal |
| 4 | 3960.00 | -31.22 | RMS      | 33.30      | -48.85 | 0.51   | -95.23 | 79.05  | -13.00 | -18.22 | Horizontal |
| 5 | 4752.00 | -48.37 | RMS      | 34.10      | -47.29 | 0.15   | -95.23 | 59.90  | -13.00 | -35.37 | Horizontal |
| 6 | 5536.00 | -49.81 | RMS      | 34.73      | -44.14 | 0.38   | -95.23 | 54.45  | -13.00 | -36.81 | Horizontal |
| 7 | 6328.00 | -58.17 | RMS      | 35.51      | -42.36 | 0.24   | -95.23 | 43.67  | -13.00 | -45.17 | Horizontal |
| 8 | 7120.00 | -54.41 | RMS      | 35.60      | -43.01 | 0.37   | -95.23 | 47.86  | -13.00 | -41.41 | Horizontal |



Site : 03CH07-HY  
Condition: 700 AC BAND 3m HF\_ANT\_00075962 Vertical  
Mode : CatM1 Band 14 5M CH23330 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter | EIRPCF | Readin | Limit  | Margin | Pol      |
|---|---------|--------|----------|------------|--------|--------|--------|--------|--------|--------|----------|
|   | MHz     | dBm    |          |            | dB     | dB     | dB     | dBuV   | dBm    | dB     |          |
| 1 | 1584.00 | -53.78 | RMS      | 27.78      | -52.28 | 0.32   | -95.23 | 65.63  | -42.15 | -11.63 | Vertical |
| 2 | 2376.00 | -18.03 | RMS      | 31.90      | -50.58 | 0.37   | -95.23 | 95.51  | -13.00 | -5.03  | Vertical |
| 3 | 3168.00 | -60.71 | RMS      | 32.50      | -49.30 | 0.15   | -95.23 | 51.17  | -13.00 | -47.71 | Vertical |
| 4 | 3960.00 | -30.20 | RMS      | 33.30      | -48.85 | 0.51   | -95.23 | 80.07  | -13.00 | -17.20 | Vertical |
| 5 | 4752.00 | -48.89 | RMS      | 34.10      | -47.29 | 0.15   | -95.23 | 59.38  | -13.00 | -35.89 | Vertical |
| 6 | 5536.00 | -48.13 | RMS      | 34.73      | -44.14 | 0.38   | -95.23 | 56.13  | -13.00 | -35.13 | Vertical |
| 7 | 6328.00 | -56.07 | RMS      | 35.51      | -42.36 | 0.24   | -95.23 | 45.77  | -13.00 | -43.07 | Vertical |
| 8 | 7120.00 | -54.93 | RMS      | 35.60      | -43.01 | 0.37   | -95.23 | 47.34  | -13.00 | -41.93 | Vertical |



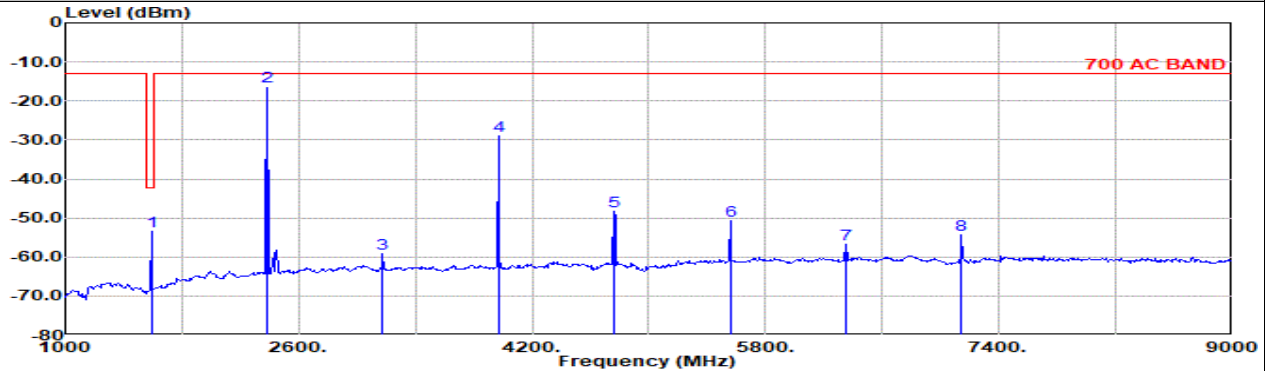
Ant. 5

Worst plane :NB With Accessory

Part 90R Mode 7

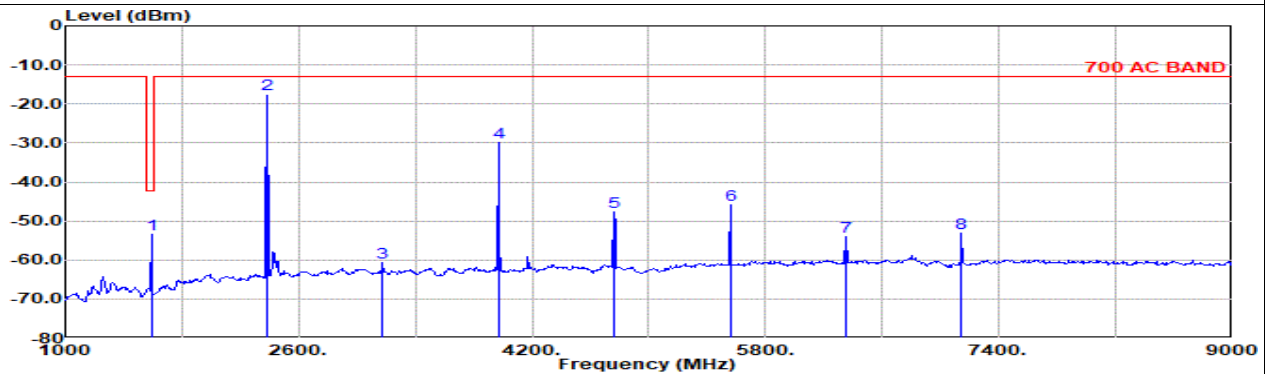
LTE CAT M1 B14 5M Ch23355 1RB0 QPSK

H



Site : 03CH07-HY  
Condition: 700 AC BAND 3m HF\_ANT\_00075962 Horizontal  
Mode : CatM1 Band 14 5M CH23355 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter | EIRPCF | Readin | Limit  | Margin | Pol        |
|---|---------|--------|----------|------------|--------|--------|--------|--------|--------|--------|------------|
|   | MHz     | dBm    |          |            | dB     | dB     | dB     | dBuV   | dBm    | dB     |            |
| 1 | 1592.00 | -53.39 | RMS      | 27.94      | -52.26 | 0.31   | -95.23 | 65.85  | -42.15 | -11.24 | Horizontal |
| 2 | 2384.00 | -16.15 | RMS      | 31.94      | -50.57 | 0.37   | -95.23 | 97.34  | -13.00 | -3.15  | Horizontal |
| 3 | 3176.00 | -59.30 | RMS      | 32.50      | -49.30 | 0.14   | -95.23 | 52.59  | -13.00 | -46.30 | Horizontal |
| 4 | 3968.00 | -29.09 | RMS      | 33.30      | -48.84 | 0.51   | -95.23 | 81.17  | -13.00 | -16.09 | Horizontal |
| 5 | 4760.00 | -48.26 | RMS      | 34.12      | -47.27 | 0.15   | -95.23 | 59.97  | -13.00 | -35.26 | Horizontal |
| 6 | 5560.00 | -50.62 | RMS      | 34.70      | -44.08 | 0.39   | -95.23 | 53.60  | -13.00 | -37.62 | Horizontal |
| 7 | 6352.00 | -56.87 | RMS      | 35.60      | -42.32 | 0.26   | -95.23 | 44.82  | -13.00 | -43.87 | Horizontal |
| 8 | 7144.00 | -54.44 | RMS      | 35.60      | -43.01 | 0.38   | -95.23 | 47.82  | -13.00 | -41.44 | Horizontal |



Site : 03CH07-HY  
Condition: 700 AC BAND 3m HF\_ANT\_00075962 Vertical  
Mode : CatM1 Band 14 5M CH23355 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter | EIRPCF | Readin | Limit  | Margin | Pol      |
|---|---------|--------|----------|------------|--------|--------|--------|--------|--------|--------|----------|
|   | MHz     | dBm    |          |            | dB     | dB     | dB     | dBuV   | dBm    | dB     |          |
| 1 | 1592.00 | -53.43 | RMS      | 27.94      | -52.26 | 0.31   | -95.23 | 65.81  | -42.15 | -11.28 | Vertical |
| 2 | 2384.00 | -17.36 | RMS      | 31.94      | -50.57 | 0.37   | -95.23 | 96.13  | -13.00 | -4.36  | Vertical |
| 3 | 3176.00 | -60.58 | RMS      | 32.50      | -49.30 | 0.14   | -95.23 | 51.31  | -13.00 | -47.58 | Vertical |
| 4 | 3968.00 | -29.87 | RMS      | 33.30      | -48.84 | 0.51   | -95.23 | 80.39  | -13.00 | -16.87 | Vertical |
| 5 | 4760.00 | -47.71 | RMS      | 34.12      | -47.27 | 0.15   | -95.23 | 60.52  | -13.00 | -34.71 | Vertical |
| 6 | 5560.00 | -46.01 | RMS      | 34.70      | -44.08 | 0.39   | -95.23 | 58.21  | -13.00 | -33.01 | Vertical |
| 7 | 6352.00 | -54.06 | RMS      | 35.60      | -42.32 | 0.26   | -95.23 | 47.63  | -13.00 | -41.06 | Vertical |
| 8 | 7144.00 | -53.07 | RMS      | 35.60      | -43.01 | 0.38   | -95.23 | 49.19  | -13.00 | -40.07 | Vertical |





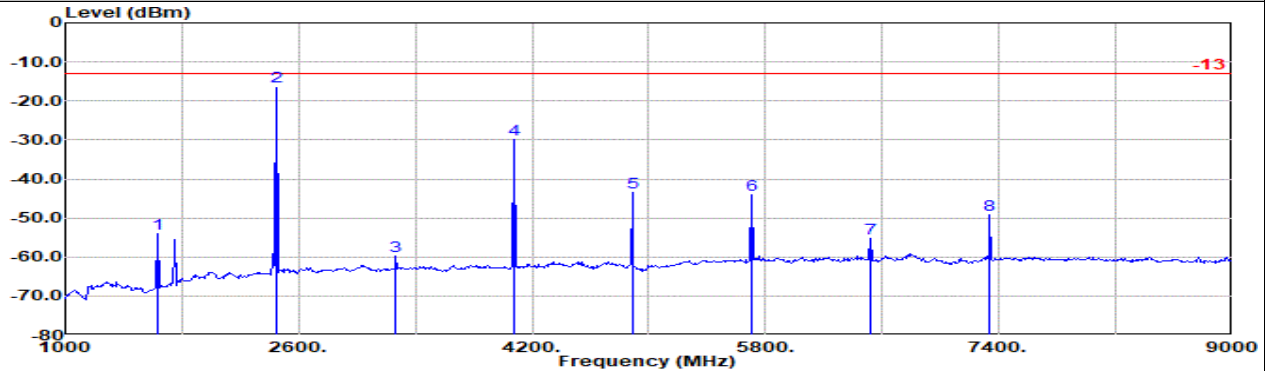
Ant. 5

Worst plane :NB With Accessory

Part 90S Mode 8

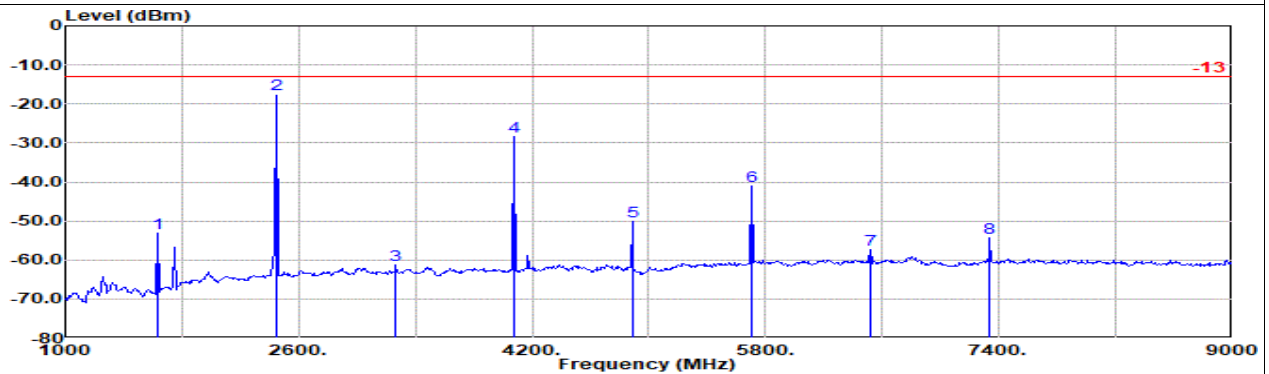
LTE CAT M1 B26 5M Ch26715 1RB0 QPSK

L



Site : 03CH07-HY  
Condition: -13 3m HF\_ANT\_00075962 Horizontal  
Mode : CatM1 Band 26 5M CH26715 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb<br>1 | Filter | EIRPCF | Readin<br>g | Limit  | Margin | Pol        |
|---|---------|--------|----------|------------|-------------|--------|--------|-------------|--------|--------|------------|
|   | MHz     | dBm    |          | dB/m       | dB          | dB     | dB     | dBuV        | dBm    | dB     |            |
| 1 | 1632.00 | -54.19 | RMS      | 28.52      | -52.16      | 0.31   | -95.23 | 64.37       | -13.00 | -41.19 | Horizontal |
| 2 | 2448.00 | -16.39 | RMS      | 31.98      | -50.45      | 0.33   | -95.23 | 96.98       | -13.00 | -3.39  | Horizontal |
| 3 | 3264.00 | -59.62 | RMS      | 32.73      | -49.24      | 0.14   | -95.23 | 51.98       | -13.00 | -46.62 | Horizontal |
| 4 | 4072.00 | -29.76 | RMS      | 33.29      | -48.72      | 0.47   | -95.23 | 80.43       | -13.00 | -16.76 | Horizontal |
| 5 | 4888.00 | -43.42 | RMS      | 34.28      | -46.93      | 0.18   | -95.23 | 64.28       | -13.00 | -30.42 | Horizontal |
| 6 | 5704.00 | -44.22 | RMS      | 35.20      | -43.68      | 0.39   | -95.23 | 59.10       | -13.00 | -31.22 | Horizontal |
| 7 | 6520.00 | -55.35 | RMS      | 35.54      | -42.17      | 0.32   | -95.23 | 46.19       | -13.00 | -42.35 | Horizontal |
| 8 | 7336.00 | -49.14 | RMS      | 35.80      | -42.99      | 0.44   | -95.23 | 52.84       | -13.00 | -36.14 | Horizontal |



Site : 03CH07-HY  
Condition: -13 3m HF\_ANT\_00075962 Vertical  
Mode : CatM1 Band 26 5M CH26715 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb<br>1 | Filter | EIRPCF | Readin<br>g | Limit  | Margin | Pol      |
|---|---------|--------|----------|------------|-------------|--------|--------|-------------|--------|--------|----------|
|   | MHz     | dBm    |          | dB/m       | dB          | dB     | dB     | dBuV        | dBm    | dB     |          |
| 1 | 1632.00 | -53.01 | RMS      | 28.52      | -52.16      | 0.31   | -95.23 | 65.55       | -13.00 | -40.01 | Vertical |
| 2 | 2448.00 | -17.48 | RMS      | 31.98      | -50.45      | 0.33   | -95.23 | 95.89       | -13.00 | -4.48  | Vertical |
| 3 | 3264.00 | -61.33 | RMS      | 32.73      | -49.24      | 0.14   | -95.23 | 50.27       | -13.00 | -48.33 | Vertical |
| 4 | 4072.00 | -28.48 | RMS      | 33.29      | -48.72      | 0.47   | -95.23 | 81.71       | -13.00 | -15.48 | Vertical |
| 5 | 4888.00 | -50.09 | RMS      | 34.28      | -46.93      | 0.18   | -95.23 | 57.61       | -13.00 | -37.09 | Vertical |
| 6 | 5704.00 | -41.12 | RMS      | 35.20      | -43.68      | 0.39   | -95.23 | 62.20       | -13.00 | -28.12 | Vertical |
| 7 | 6520.00 | -57.25 | RMS      | 35.54      | -42.17      | 0.32   | -95.23 | 44.29       | -13.00 | -44.25 | Vertical |
| 8 | 7336.00 | -54.31 | RMS      | 35.80      | -42.99      | 0.44   | -95.23 | 47.67       | -13.00 | -41.31 | Vertical |



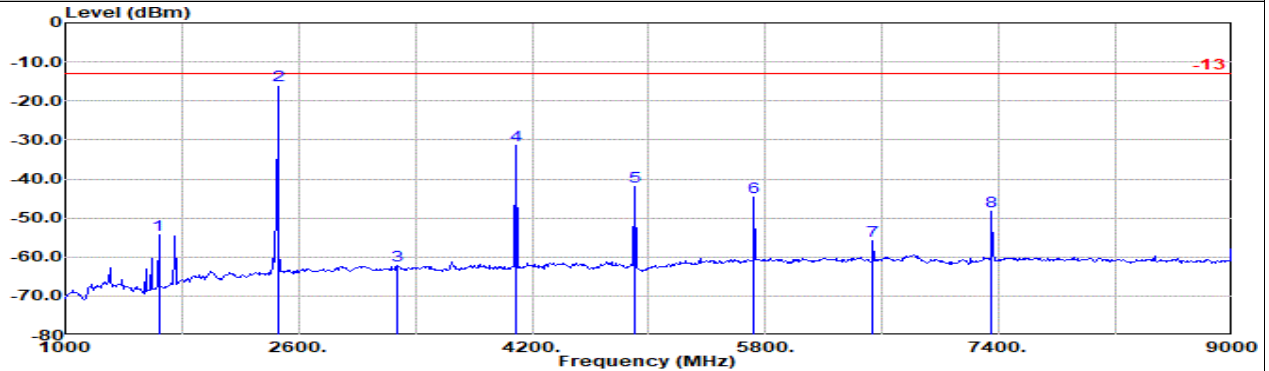
Ant. 5

Worst plane :NB With Accessory

Part 90S Mode 8

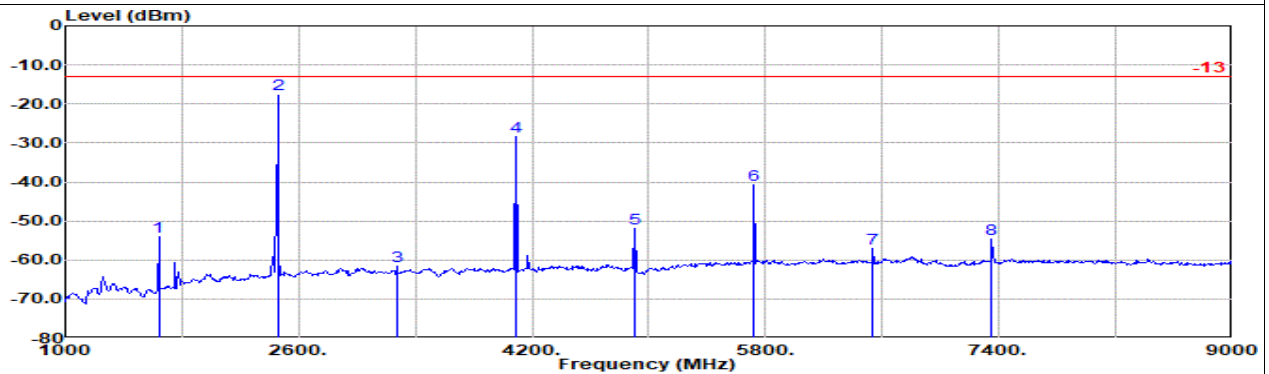
LTE CAT M1 B26 5M Ch26740 1RB0 QPSK

M



Site : 03CH07-HY  
Condition: -13 3m HF\_ANT\_00075962 Horizontal  
Mode : CatM1 Band 26 5M CH26740 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb<br>1 | Filter | EIRPCF | Readin<br>g | Limit  | Margin | Pol        |
|---|---------|--------|----------|------------|-------------|--------|--------|-------------|--------|--------|------------|
|   | MHz     | dBm    |          | dB/m       | dB          | dB     | dB     | dBuV        | dBm    | dB     |            |
| 1 | 1640.00 | -54.43 | RMS      | 28.60      | -52.14      | 0.31   | -95.23 | 64.03       | -13.00 | -41.43 | Horizontal |
| 2 | 2456.00 | -16.08 | RMS      | 32.06      | -50.44      | 0.32   | -95.23 | 97.21       | -13.00 | -3.08  | Horizontal |
| 3 | 3272.00 | -62.15 | RMS      | 32.74      | -49.23      | 0.14   | -95.23 | 49.43       | -13.00 | -49.15 | Horizontal |
| 4 | 4088.00 | -31.31 | RMS      | 33.35      | -48.69      | 0.47   | -95.23 | 78.79       | -13.00 | -18.31 | Horizontal |
| 5 | 4904.00 | -42.11 | RMS      | 34.31      | -46.89      | 0.18   | -95.23 | 65.52       | -13.00 | -29.11 | Horizontal |
| 6 | 5720.00 | -44.73 | RMS      | 35.20      | -43.63      | 0.39   | -95.23 | 58.54       | -13.00 | -31.73 | Horizontal |
| 7 | 6536.00 | -55.95 | RMS      | 35.57      | -42.19      | 0.33   | -95.23 | 45.57       | -13.00 | -42.95 | Horizontal |
| 8 | 7352.00 | -48.27 | RMS      | 35.80      | -42.99      | 0.45   | -95.23 | 53.70       | -13.00 | -35.27 | Horizontal |



Site : 03CH07-HY  
Condition: -13 3m HF\_ANT\_00075962 Vertical  
Mode : CatM1 Band 26 5M CH26740 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb<br>1 | Filter | EIRPCF | Readin<br>g | Limit  | Margin | Pol      |
|---|---------|--------|----------|------------|-------------|--------|--------|-------------|--------|--------|----------|
|   | MHz     | dBm    |          | dB/m       | dB          | dB     | dB     | dBuV        | dBm    | dB     |          |
| 1 | 1640.00 | -54.08 | RMS      | 28.60      | -52.14      | 0.31   | -95.23 | 64.38       | -13.00 | -41.08 | Vertical |
| 2 | 2456.00 | -17.40 | RMS      | 32.06      | -50.44      | 0.32   | -95.23 | 95.89       | -13.00 | -4.40  | Vertical |
| 3 | 3272.00 | -61.62 | RMS      | 32.74      | -49.23      | 0.14   | -95.23 | 49.96       | -13.00 | -48.62 | Vertical |
| 4 | 4088.00 | -28.51 | RMS      | 33.35      | -48.69      | 0.47   | -95.23 | 81.59       | -13.00 | -15.51 | Vertical |
| 5 | 4904.00 | -52.03 | RMS      | 34.31      | -46.89      | 0.18   | -95.23 | 55.60       | -13.00 | -39.03 | Vertical |
| 6 | 5720.00 | -40.75 | RMS      | 35.20      | -43.63      | 0.39   | -95.23 | 62.52       | -13.00 | -27.75 | Vertical |
| 7 | 6536.00 | -57.07 | RMS      | 35.57      | -42.19      | 0.33   | -95.23 | 44.45       | -13.00 | -44.07 | Vertical |
| 8 | 7352.00 | -54.76 | RMS      | 35.80      | -42.99      | 0.45   | -95.23 | 47.21       | -13.00 | -41.76 | Vertical |



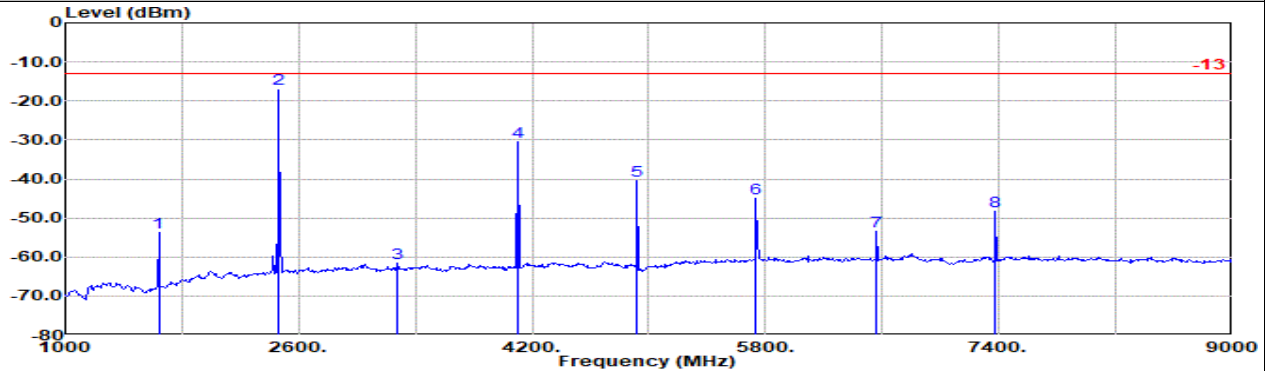
Ant. 5

Worst plane :NB With Accessory

Part 90S Mode 8

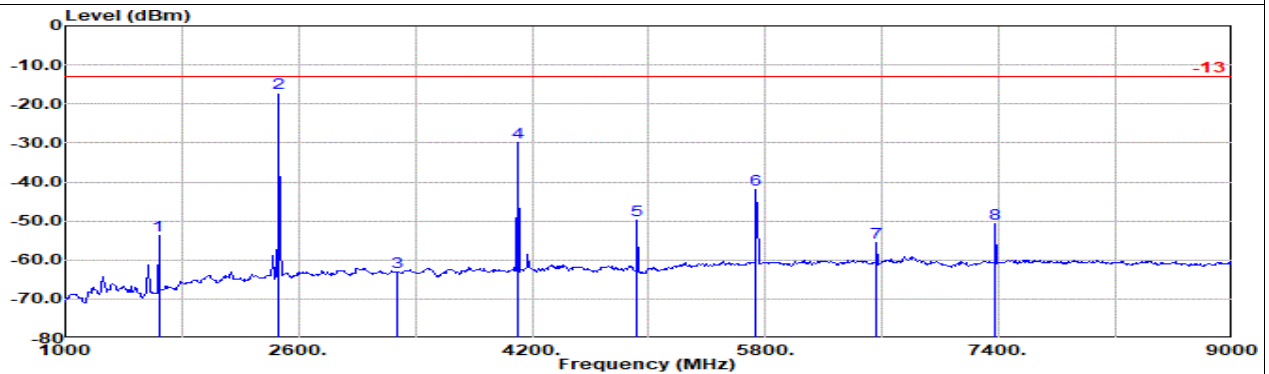
LTE CAT M1 B26 5M Ch26765 1RB0 QPSK

H



Site : 03CH07-HY  
Condition: -13 3m HF\_ANT\_00075962 Horizontal  
Mode : CatM1 Band 26 5M CH26765 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb<br>1 | Filter | EIRPCF | Readin<br>g | Limit  | Margin | Pol        |
|---|---------|--------|----------|------------|-------------|--------|--------|-------------|--------|--------|------------|
|   | MHz     | dBm    |          | dB/m       | dB          | dB     | dB     | dBuV        | dBm    | dB     |            |
| 1 | 1640.00 | -53.77 | RMS      | 28.60      | -52.14      | 0.31   | -95.23 | 64.69       | -13.00 | -40.77 | Horizontal |
| 2 | 2464.00 | -17.02 | RMS      | 32.10      | -50.42      | 0.31   | -95.23 | 96.22       | -13.00 | -4.02  | Horizontal |
| 3 | 3280.00 | -61.48 | RMS      | 32.76      | -49.22      | 0.14   | -95.23 | 50.07       | -13.00 | -48.48 | Horizontal |
| 4 | 4104.00 | -30.38 | RMS      | 33.42      | -48.67      | 0.46   | -95.23 | 79.64       | -13.00 | -17.38 | Horizontal |
| 5 | 4920.00 | -40.57 | RMS      | 34.34      | -46.84      | 0.19   | -95.23 | 66.97       | -13.00 | -27.57 | Horizontal |
| 6 | 5736.00 | -45.02 | RMS      | 35.20      | -43.58      | 0.39   | -95.23 | 58.20       | -13.00 | -32.02 | Horizontal |
| 7 | 6560.00 | -53.33 | RMS      | 35.58      | -42.23      | 0.33   | -95.23 | 48.22       | -13.00 | -40.33 | Horizontal |
| 8 | 7376.00 | -48.31 | RMS      | 35.75      | -42.98      | 0.45   | -95.23 | 53.70       | -13.00 | -35.31 | Horizontal |



Site : 03CH07-HY  
Condition: -13 3m HF\_ANT\_00075962 Vertical  
Mode : CatM1 Band 26 5M CH26765 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb<br>1 | Filter | EIRPCF | Readin<br>g | Limit  | Margin | Pol      |
|---|---------|--------|----------|------------|-------------|--------|--------|-------------|--------|--------|----------|
|   | MHz     | dBm    |          | dB/m       | dB          | dB     | dB     | dBuV        | dBm    | dB     |          |
| 1 | 1640.00 | -53.64 | RMS      | 28.60      | -52.14      | 0.31   | -95.23 | 64.82       | -13.00 | -40.64 | Vertical |
| 2 | 2464.00 | -17.35 | RMS      | 32.10      | -50.42      | 0.31   | -95.23 | 95.89       | -13.00 | -4.35  | Vertical |
| 3 | 3280.00 | -63.11 | RMS      | 32.76      | -49.22      | 0.14   | -95.23 | 48.44       | -13.00 | -50.11 | Vertical |
| 4 | 4104.00 | -29.92 | RMS      | 33.42      | -48.67      | 0.46   | -95.23 | 80.10       | -13.00 | -16.92 | Vertical |
| 5 | 4920.00 | -49.66 | RMS      | 34.34      | -46.84      | 0.19   | -95.23 | 57.88       | -13.00 | -36.66 | Vertical |
| 6 | 5736.00 | -41.96 | RMS      | 35.20      | -43.58      | 0.39   | -95.23 | 61.26       | -13.00 | -28.96 | Vertical |
| 7 | 6560.00 | -55.61 | RMS      | 35.58      | -42.23      | 0.33   | -95.23 | 45.94       | -13.00 | -42.61 | Vertical |
| 8 | 7376.00 | -50.69 | RMS      | 35.75      | -42.98      | 0.45   | -95.23 | 51.32       | -13.00 | -37.69 | Vertical |



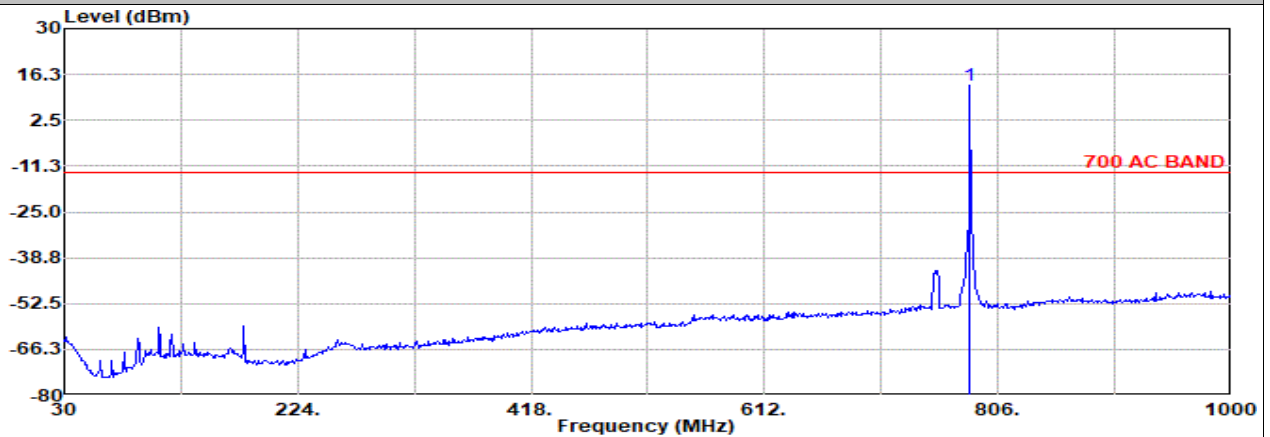
Ant. 5

Worst plane :TB (X) With Accessory

## Part 27F Mode 1

LTE CAT M1 B13 5M Ch23255 1RB0 QPSK

H



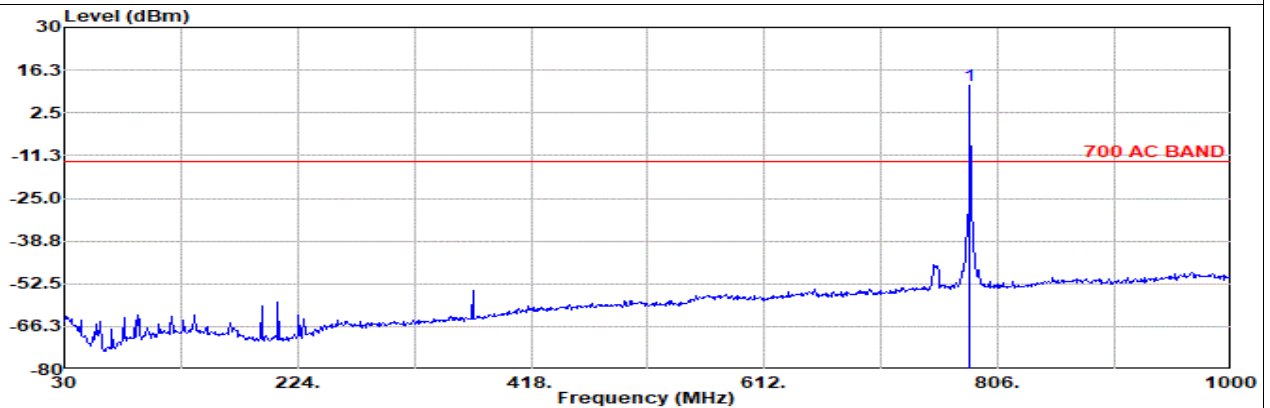
Site : 03CH07-HY

Condition: 700 AC BAND 3m Bilog\_35419 Horizontal

Mode : LTE Band 13 5M Ch23255 1RB0 QPSK

: #1 is fundamental signal which can be ignored.

|   | Freq Level |       | Detector | Ant Amp\Cb Filter |      | EIRPCF | Readin Limit |       | Margin Pol |                  |
|---|------------|-------|----------|-------------------|------|--------|--------------|-------|------------|------------------|
|   | MHz        | dBm   |          | Factor            | 1    |        | g            |       |            |                  |
| 1 | 782.72     | 13.00 | RMS      | 27.80             | 4.96 | 0.00   | -95.23       | 75.47 | -13.00     | 26.00 Horizontal |



Site : 03CH07-HY

Condition: 700 AC BAND 3m Bilog\_35419 Vertical

Mode : LTE Band 13 5M Ch23255 1RB0 QPSK

: #1 is fundamental signal which can be ignored.

|   | Freq Level |       | Detector | Ant Amp\Cb Filter |      | EIRPCF | Readin Limit |       | Margin Pol |                |
|---|------------|-------|----------|-------------------|------|--------|--------------|-------|------------|----------------|
|   | MHz        | dBm   |          | Factor            | 1    |        | g            |       |            |                |
| 1 | 782.72     | 11.37 | RMS      | 27.80             | 4.96 | 0.00   | -95.23       | 73.84 | -13.00     | 24.37 Vertical |

Remark: #1 is fundamental signal which can be ignored.