

# FCC REPORT

## (LTE)

**Applicant:** Guizhou Fortuneship Technology Co., Ltd

**Address of Applicant:** (No. 4 Plant, High-tech Industrial Park, Xipu Economic Development Zone) Jingkai Road, Xipu Jingkai District, Xipu New District, Zunyi City, Guizhou Province, P. R. China

**Equipment Under Test (EUT)**

Product Name: 4G Smart Phone

Model No.: PCD509

Trade mark: PCD

**FCC ID:** 2ALQJ-PCD509

**Applicable standards:** FCC CFR Title 47 Part 2  
FCC CFR Title 47 Part 27 Subpart L

**Date of sample receipt:** 09 Mar., 2017

**Date of Test:** 10 Mar., to 31 Mar., 2017

**Date of report issued:** 05 Apr., 2017

**Test Result:** PASS\*

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang  
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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## 2. Version

| Version No. | Date          | Description |
|-------------|---------------|-------------|
| 00          | 05 Apr., 2017 | Original    |
|             |               |             |
|             |               |             |
|             |               |             |
|             |               |             |

**Tested by:**

*Carey Chen*

**Date:**

05 Apr., 2017

**Test Engineer**

**Reviewed by:**

*Wimer Zhang*

**Date:**

05 Apr., 2017

**Project Engineer**

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#### 4. Test Summary

| Test Item                              | Section in CFR 47                | Result                                 |
|----------------------------------------|----------------------------------|----------------------------------------|
| RF Exposure (SAR)                      | Part 1.1307<br>Part 2.1093       | Passed<br>(Please refer to SAR Report) |
| RF Output Power                        | Part 2.1046<br>Part 27.50 (d)(4) | Pass                                   |
| Peak-to-Average Ratio                  | Part 24.232 (d)                  | Pass                                   |
| Modulation Characteristics             | Part 2.1047                      | Pass                                   |
| 99% & -26 dB Occupied Bandwidth        | Part 2.1049<br>Part 27.53(h)     | Pass                                   |
| Spurious Emissions at Antenna Terminal | Part 2.1051<br>Part 27.53 (h)    | Pass                                   |
| Field Strength of Spurious Radiation   | Part 2.1053<br>Part 27.53 (h)    | Pass                                   |
| Out of band emission, Band Edge        | Part 27.53 (h)                   | Pass                                   |
| Frequency stability vs. temperature    | Part 2.1055(a)(1)(b)             | Pass                                   |
| Frequency stability vs. voltage        | Part 2.1055(d)(1)(2)             | Pass                                   |

*Pass: The EUT complies with the essential requirements in the standard.*

## 5. General Information

### 5.1 Client Information

|                          |                                                                                                                                                                            |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Applicant:               | Guizhou Fortuneship Technology Co., Ltd                                                                                                                                    |
| Address of Applicant:    | (No. 4 Plant, High-tech Industrial Park, Xipu Economic Development Zone) Jingkai Road, Xipu Jingkai District, Xipu New District, Zunyi City, Guizhou Province, P. R. China |
| Manufacturer:            | Guizhou Fortuneship Technology Co., Ltd                                                                                                                                    |
| Address of Manufacturer: | (No. 4 Plant, High-tech Industrial Park, Xipu Economic Development Zone) Jingkai Road, Xipu Jingkai District, Xipu New District, Zunyi City, Guizhou Province, P. R. China |

### 5.2 General Description of E.U.T.

|                            |                                                                                       |
|----------------------------|---------------------------------------------------------------------------------------|
| Product Name:              | 4G Smart Phone                                                                        |
| Model No.:                 | PCD509                                                                                |
| Operation Frequency range: | LTE Band 4:TX: 1710MHz-1755MHz, RX: 2110MHz-2155MHz                                   |
| Modulation type:           | QPSK, 16QAM                                                                           |
| Antenna type:              | Internal Antenna                                                                      |
| Antenna gain:              | LTE Band 4:-1.2dBi                                                                    |
| Power supply:              | Rechargeable Li-ion Battery DC3.8V-2500mAh                                            |
| AC adapter :               | Model: FJ-SW1160501000UA<br>Input: AC100-240V 50/60Hz 0.3A<br>Output: DC 5.0V, 1000mA |

## Operation Frequency List:

| LTE Band 4(1.4MHz) |                 | LTE Band 4(3MHz)  |                 |
|--------------------|-----------------|-------------------|-----------------|
| Channel            | Frequency (MHz) | Channel           | Frequency (MHz) |
| 19957              | 1710.70         | 19965             | 1711.50         |
| 19958              | 1710.80         | 19966             | 1711.60         |
| ....               | ....            | ....              | ....            |
| 20174              | 1732.40         | 20174             | 1732.40         |
| 20175              | 1732.50         | 20175             | 1732.50         |
| 20176              | 1732.60         | 20176             | 1732.60         |
| ...                | ...             | ...               | ...             |
| 20392              | 1754.20         | 20384             | 1753.40         |
| 20393              | 1754.30         | 20385             | 1753.50         |
| LTE Band 4(5MHz)   |                 | LTE Band 4(10MHz) |                 |
| Channel            | Frequency (MHz) | Channel           | Frequency (MHz) |
| 19975              | 1712.50         | 20000             | 1715.00         |
| 19976              | 1712.60         | 20001             | 1715.10         |
| ....               | ....            | ....              | ....            |
| 20174              | 1732.40         | 20174             | 1732.40         |
| 20175              | 1732.50         | 20175             | 1732.50         |
| 20176              | 1732.60         | 20176             | 1732.60         |
| ...                | ...             | ...               | ...             |
| 20374              | 1752.40         | 20349             | 1749.90         |
| 20375              | 1752.50         | 20350             | 1750.00         |
| LTE Band 4(15MHz)  |                 | LTE Band 4(20MHz) |                 |
| Channel            | Frequency (MHz) | Channel           | Frequency (MHz) |
| 20025              | 1717.50         | 20050             | 1720.00         |
| 20026              | 1717.60         | 20051             | 1720.10         |
| ....               | ....            | ....              | ....            |
| 20174              | 1732.40         | 20174             | 1732.40         |
| 20175              | 1732.50         | 20175             | 1732.50         |
| 20176              | 1732.60         | 20176             | 1732.60         |
| ...                | ...             | ...               | ...             |
| 20324              | 1747.40         | 20299             | 1744.90         |
| 20325              | 1747.50         | 20300             | 1745.00         |

Regards to the operating frequency range, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channels as below:

| LTE Band 4(1.4MHz) |       |                 | LTE Band 4(3MHz)  |       |                 |
|--------------------|-------|-----------------|-------------------|-------|-----------------|
| Channel:           |       | Frequency (MHz) | Channel           |       | Frequency (MHz) |
| Lowest channel     | 19957 | 1710.70         | Lowest channel    | 19965 | 1711.50         |
| Middle channel     | 20175 | 1732.50         | Middle channel    | 20175 | 1732.50         |
| Highest channel    | 20393 | 1754.30         | Highest channel   | 20385 | 1753.50         |
| LTE Band 4(5MHz)   |       |                 | LTE Band 4(10MHz) |       |                 |
| Channel            |       | Frequency (MHz) | Channel           |       | Frequency (MHz) |
| Lowest channel     | 19975 | 1712.50         | Lowest channel    | 20000 | 1715.00         |
| Middle channel     | 20175 | 1732.50         | Middle channel    | 20175 | 1732.50         |
| Highest channel    | 20375 | 1752.50         | Highest channel   | 20350 | 1750.00         |
| LTE Band 4(15MHz)  |       |                 | LTE Band 4(20MHz) |       |                 |
| Channel            |       | Frequency (MHz) | Channel           |       | Frequency (MHz) |
| Lowest channel     | 20025 | 1717.50         | Lowest channel    | 20050 | 1720.00         |
| Middle channel     | 20175 | 1732.50         | Middle channel    | 20175 | 1732.50         |
| Highest channel    | 20325 | 1747.50         | Highest channel   | 20300 | 1745.00         |

## 5.3 Test modes

|                               |                                                                                                                                                                                       |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Data mode (LTE band 4(QPSK))  | Keep the EUT in data communicating mode on LTE band 4(QPSK).<br>(LTE band 4(1.4MHz), LTE band 4(3MHz), LTE band 4(5MHz),<br>LTE band 4(10MHz), LTE band 4(15MHz), LTE band 4(20MHz))  |
| Data mode (LTE band 4(16QAM)) | Keep the EUT in data communicating mode on LTE band 4(16QAM).<br>(LTE band 4(1.4MHz), LTE band 4(3MHz), LTE band 4(5MHz),<br>LTE band 4(10MHz), LTE band 4(15MHz), LTE band 4(20MHz)) |
| Remark :                      | Just the worst case data were shown in the report.                                                                                                                                    |

## 5.4 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is filing to comply with Section Part 24 subpart E, Part 27 subpart L of the FCC CFR 47 Rules.

## 5.5 Test Methodology

Both conducted and radiated testing were performed according to the procedures document on TIA/EIA 603 and FCC CFR 47clause 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057

## 5.6 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

● **FCC - Registration No.: 817957**

Shenzhen ZhongjianNanfang Testing Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in out files. Registration 817957, February 27, 2012.

● **IC - Registration No.: 10106A-1**

The 3m Semi-anechoic chamber of Shenzhen ZhongjianNanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

● **CNAS - Registration No.: CNAS L6048**

Shenzhen ZhongjianNanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

## 5.7 Laboratory Location

Shenzhen ZhongjianNanfang Testing Co., Ltd.  
Address: No.B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,  
Bao'an District, Shenzhen, Guangdong, China  
Tel: +86-755-23118282  
Fax: +86-755-23116366



## 5.8 Test Instruments list

| Test Equipment                       | Manufacturer                             | Model No.                   | Inventory No. | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) |
|--------------------------------------|------------------------------------------|-----------------------------|---------------|----------------------|--------------------------|
| 3m Semi- Anechoic Chamber            | SAEMC                                    | 9(L)*6(W)* 6(H)             | CCIS0001      | 08-23-2014           | 08-22-2017               |
| BiConiLog Antenna                    | SCHWARZBECK<br>MESS-ELEKTRONIK           | VULB9163                    | CCIS0005      | 02-25-2017           | 02-24-2018               |
| Double -ridged waveguide horn        | SCHWARZBECK<br>MESS-ELEKTRONIK           | BBHA9120D                   | CCIS0006      | 02-25-2017           | 02-24-2018               |
| EMI Test Software                    | AUDIX                                    | E3                          | N/A           | N/A                  | N/A                      |
| Amplifier (10kHz-1.3GHz)             | HP                                       | 8447D                       | CCIS0003      | 02-25-2017           | 02-24-2018               |
| Amplifier (1GHz-18GHz)               | Compliance Direction Systems Inc.        | PAP-1G18                    | CCIS0011      | 02-25-2017           | 02-24-2018               |
| Pre-amplifier (18-26GHz)             | Rohde & Schwarz                          | AFS33-18002<br>650-30-8P-44 | GTS218        | 02-25-2017           | 02-24-2018               |
| Horn Antenna                         | ETS-LINDGREN                             | 3160                        | GTS217        | 02-25-2017           | 02-24-2018               |
| Printer                              | HP                                       | HP LaserJet P1007           | N/A           | N/A                  | N/A                      |
| Positioning Controller               | UC                                       | UC3000                      | CCIS0015      | N/A                  | N/A                      |
| Spectrum analyzer 9k-30GHz           | Rohde & Schwarz                          | FSP 30                      | CCIS0023      | 02-25-2017           | 02-24-2018               |
| EMI Test Receiver                    | Rohde & Schwarz                          | ESPI                        | CCIS0022      | 02-25-2017           | 02-24-2018               |
| EMI Test Receiver                    | Rohde & Schwarz                          | ESRP7                       | CCIS0167      | 02-25-2017           | 02-24-2018               |
| Loop antenna                         | Laplace instrument                       | RF300                       | EMC0701       | 02-25-2017           | 02-24-2018               |
| Universal radio communication tester | Rhode & Schwarz                          | CMU200                      | CCIS0069      | 02-25-2017           | 02-24-2018               |
| Signal Analyzer                      | Rohde & Schwarz                          | FSIQ3                       | CCIS0088      | 02-25-2017           | 02-24-2018               |
| DC Power Supply                      | Shenzhen XinNuoEr Technologies Co., Ltd. | WYK-10020K                  | CCIS0201      | 10-31-2016           | 10-30-2017               |
| Temperature Humidity Chamber         | Fo Shan HengPu Electronics Co., Ltd.     | HPGDS-500                   | CCIS0240      | 11-18-2016           | 11-27-2017               |

## 6. System test configuration

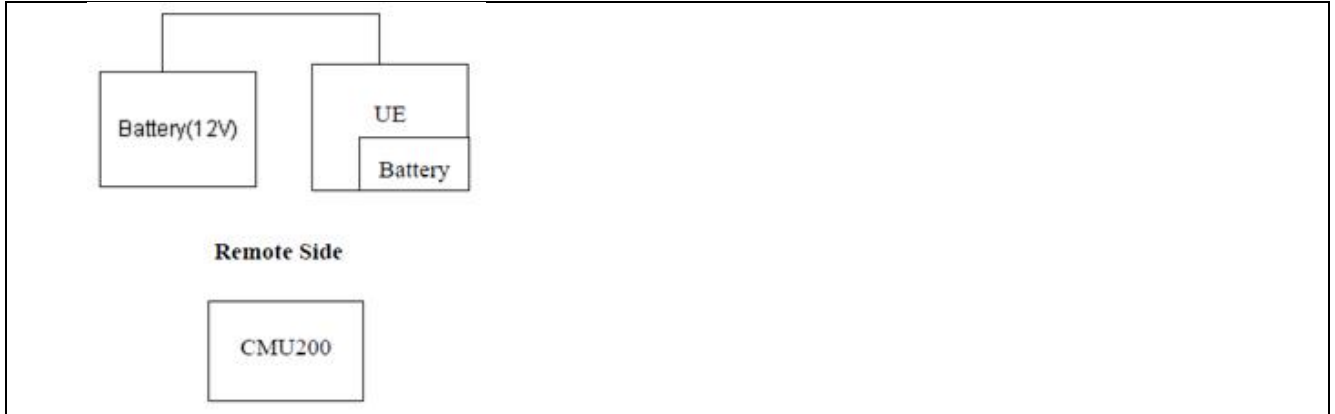
### 6.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 6.2 EUT Exercise

The EUT (Transmitter) was operated in the engineering mode to fix the Tx frequency which was for the purpose of the measurements.

### 6.3 Configuration of Tested System



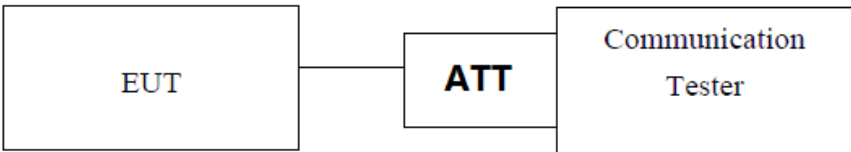
### 6.4 Description of Test Modes

The EUT has been tested under operating condition.

EUT staying in continuous transmitting mode. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing.

The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for three modes (LTE Band 4) with power adaptor, earphone and Data cable. The worst-case H mode for LTE Band 4.

## 6.5 Conducted Output Power

|                   |                                                                                                                                                                    |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | Part 24.232 (c), part 27.50(d)                                                                                                                                     |
| Test Method:      | FCC part2.1046                                                                                                                                                     |
| Limit:            | LTE Band 4: 1W                                                                                                                                                     |
| Test setup:       |  <p><i>Note: Measurement setup for testing on Antenna connector</i></p>          |
| Test Procedure:   | The transmitter output was connected to a calibrated attenuator, the other end of which was connected to the CMW500. Transmitter output power was read off in dBm. |
| Test Instruments: | Refer to section 5.8 for details                                                                                                                                   |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                   |
| Test results:     | Passed                                                                                                                                                             |

Measurement Data:

LTE Band 4 part

| LTE Band | Bandwidth (MHz) | Modulation | RB Size | RB Offset | Average Power (dBm) |           |           |
|----------|-----------------|------------|---------|-----------|---------------------|-----------|-----------|
|          |                 |            |         |           | 19957               | 20175     | 20393     |
|          |                 |            |         |           | 1710.7MHz           | 1732.5MHz | 1754.3MHz |
| 4        | 1.4             | QPSK       | 1       | 0         | 21.06               | 21.04     | 20.93     |
|          |                 |            | 1       | 2         | 21.03               | 21.04     | 20.91     |
|          |                 |            | 1       | 5         | 21.07               | 21.04     | 20.93     |
|          |                 |            | 3       | 0         | 21.19               | 21.12     | 20.98     |
|          |                 |            | 3       | 1         | 21.05               | 21.05     | 20.99     |
|          |                 |            | 3       | 2         | 21.09               | 21.08     | 21.02     |
|          |                 |            | 6       | 0         | 20.19               | 20.17     | 20.01     |
|          |                 | 16QAM      | 1       | 0         | 20.01               | 20.30     | 20.16     |
|          |                 |            | 1       | 2         | 20.51               | 20.28     | 20.15     |
|          |                 |            | 1       | 5         | 20.18               | 20.04     | 20.02     |
|          |                 |            | 3       | 0         | 20.50               | 20.27     | 20.14     |
|          |                 |            | 3       | 1         | 20.20               | 20.36     | 20.05     |
|          |                 |            | 3       | 2         | 20.24               | 20.18     | 19.92     |
|          |                 |            | 6       | 0         | 19.22               | 19.26     | 19.04     |
| LTE Band | Bandwidth (MHz) | Modulation | RB Size | RB Offset | Average Power (dBm) |           |           |
|          |                 |            |         |           | 19965               | 20175     | 20385     |
|          |                 |            |         |           | 1711.5MHz           | 1732.5MHz | 1753.5MHz |
| 4        | 3               | QPSK       | 1       | 0         | 21.07               | 21.07     | 20.95     |
|          |                 |            | 1       | 7         | 21.14               | 21.11     | 20.99     |
|          |                 |            | 1       | 14        | 21.06               | 21.05     | 20.88     |
|          |                 |            | 8       | 0         | 20.23               | 20.16     | 20.08     |
|          |                 |            | 8       | 4         | 20.25               | 20.21     | 20.05     |
|          |                 |            | 8       | 7         | 20.24               | 20.15     | 20.06     |
|          |                 |            | 15      | 0         | 20.24               | 20.16     | 20.06     |
|          |                 | 16QAM      | 1       | 0         | 20.33               | 20.04     | 20.08     |
|          |                 |            | 1       | 7         | 20.33               | 20.23     | 20.49     |
|          |                 |            | 1       | 14        | 19.97               | 20.25     | 20.01     |
|          |                 |            | 8       | 0         | 19.30               | 19.20     | 19.10     |
|          |                 |            | 8       | 4         | 19.21               | 19.25     | 19.11     |
|          |                 |            | 8       | 7         | 19.22               | 19.23     | 19.09     |
|          |                 |            | 15      | 0         | 19.26               | 19.14     | 19.05     |
| LTE Band | Bandwidth (MHz) | Modulation | RB Size | RB Offset | Average Power (dBm) |           |           |
|          |                 |            |         |           | 19975               | 20175     | 20375     |
|          |                 |            |         |           | 1712.5MHz           | 1732.5MHz | 1752.5MHz |
| 4        | 5               | QPSK       | 1       | 0         | 21.06               | 21.15     | 21.02     |
|          |                 |            | 1       | 12        | 21.00               | 21.10     | 20.30     |
|          |                 |            | 1       | 24        | 21.01               | 20.32     | 20.87     |
|          |                 |            | 12      | 0         | 20.05               | 19.28     | 20.11     |
|          |                 |            | 12      | 6         | 19.95               | 20.27     | 20.05     |
|          |                 |            | 12      | 11        | 20.98               | 20.01     | 20.06     |
|          |                 |            | 25      | 0         | 20.19               | 20.33     | 20.27     |
|          |                 | 16QAM      | 1       | 0         | 20.37               | 20.32     | 19.58     |
|          |                 |            | 1       | 12        | 20.43               | 19.10     | 19.24     |
|          |                 |            | 1       | 24        | 20.26               | 19.85     | 19.15     |
|          |                 |            | 12      | 0         | 20.26               | 18.41     | 18.03     |
|          |                 |            | 12      | 6         | 19.30               | 19.45     | 18.66     |
|          |                 |            | 12      | 11        | 19.26               | 19.48     | 19.15     |
|          |                 |            | 25      | 0         | 19.27               | 19.20     | 19.16     |

| LTE Band | Bandwidth (MHz) | Modulation | RB Size | RB Offset | Average Power (dBm) |           |           |
|----------|-----------------|------------|---------|-----------|---------------------|-----------|-----------|
|          |                 |            |         |           | 20000               | 20175     | 20350     |
|          |                 |            |         |           | 1715.0MHz           | 1732.5MHz | 1750.0MHz |
| 4        | 10              | QPSK       | 1       | 0         | 21.18               | 21.15     | 21.07     |
|          |                 |            | 1       | 24        | 21.07               | 21.04     | 20.90     |
|          |                 |            | 1       | 49        | 21.02               | 21.24     | 20.86     |
|          |                 |            | 25      | 0         | 20.20               | 20.19     | 20.13     |
|          |                 |            | 25      | 12        | 20.14               | 20.14     | 20.04     |
|          |                 |            | 25      | 24        | 20.14               | 20.16     | 19.96     |
|          |                 |            | 50      | 0         | 20.17               | 20.18     | 20.07     |
|          |                 | 16QAM      | 1       | 0         | 20.72               | 20.30     | 20.31     |
|          |                 |            | 1       | 24        | 19.95               | 20.27     | 20.20     |
|          |                 |            | 1       | 49        | 20.15               | 20.03     | 20.40     |
|          |                 |            | 25      | 0         | 19.24               | 19.18     | 19.16     |
|          |                 |            | 25      | 12        | 18.48               | 19.19     | 19.17     |
|          |                 |            | 25      | 24        | 18.17               | 19.24     | 19.03     |
|          |                 |            | 50      | 0         | 19.52               | 19.23     | 19.12     |
| LTE Band | Bandwidth (MHz) | Modulation | RB Size | RB Offset | Average Power (dBm) |           |           |
|          |                 |            |         |           | 20025               | 20175     | 20325     |
|          |                 |            |         |           | 1717.5MHz           | 1732.5MHz | 1747.5MHz |
| 4        | 15              | QPSK       | 1       | 0         | 21.20               | 21.12     | 21.15     |
|          |                 |            | 1       | 37        | 21.09               | 21.13     | 20.99     |
|          |                 |            | 1       | 74        | 21.02               | 21.03     | 20.82     |
|          |                 |            | 36      | 0         | 20.25               | 20.22     | 20.19     |
|          |                 |            | 36      | 16        | 20.21               | 20.19     | 20.14     |
|          |                 |            | 36      | 35        | 20.17               | 20.19     | 20.03     |
|          |                 |            | 75      | 0         | 20.20               | 20.20     | 20.06     |
|          |                 | 16QAM      | 1       | 0         | 20.48               | 20.39     | 20.57     |
|          |                 |            | 1       | 37        | 20.79               | 20.40     | 20.43     |
|          |                 |            | 1       | 74        | 20.04               | 20.81     | 20.25     |
|          |                 |            | 36      | 0         | 19.29               | 19.30     | 19.22     |
|          |                 |            | 36      | 16        | 19.27               | 19.25     | 19.19     |
|          |                 |            | 36      | 35        | 19.24               | 19.26     | 19.10     |
|          |                 |            | 75      | 0         | 19.25               | 19.18     | 19.13     |
| LTE Band | Bandwidth (MHz) | Modulation | RB Size | RB Offset | Average Power (dBm) |           |           |
|          |                 |            |         |           | 20050               | 20175     | 20300     |
|          |                 |            |         |           | 1720.0MHz           | 1732.5MHz | 1745.0MHz |
| 4        | 20              | QPSK       | 1       | 0         | 21.20               | 21.21     | 21.20     |
|          |                 |            | 1       | 49        | 21.03               | 21.14     | 20.99     |
|          |                 |            | 1       | 99        | 21.02               | 21.01     | 20.85     |
|          |                 |            | 50      | 0         | 20.27               | 20.23     | 20.19     |
|          |                 |            | 50      | 24        | 20.19               | 20.20     | 20.13     |
|          |                 |            | 50      | 49        | 20.17               | 20.15     | 20.01     |
|          |                 |            | 100     | 0         | 20.38               | 20.13     | 20.08     |
|          |                 | 16QAM      | 1       | 0         | 20.64               | 20.45     | 20.24     |
|          |                 |            | 1       | 49        | 20.37               | 20.78     | 20.73     |
|          |                 |            | 1       | 99        | 20.70               | 20.42     | 20.10     |
|          |                 |            | 50      | 0         | 19.28               | 19.31     | 19.26     |
|          |                 |            | 50      | 24        | 19.21               | 19.23     | 19.23     |
|          |                 |            | 50      | 49        | 19.21               | 19.16     | 19.12     |
|          |                 |            | 100     | 0         | 19.21               | 19.25     | 19.15     |

## 6.6 Peak-to-Average Ratio

|                   |                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC part 24.232(d)                                                                                                                                                                                                                                                                                                                                                                                        |
| Limit:            | The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.                                                                                                                                                                                                                                                                                                                                 |
| Test setup:       | <div><pre>graph LR; EUT[EUT] --- Splitter[Splitter]; Splitter --- CT[Communication Tester]; Splitter --- ATT[ATT]; ATT --- SPA[SPA];</pre></div> <p><i>Note: Measurement setup for testing on Antenna connector</i></p>                                                                                                                                                                                   |
| Test Procedure:   | <ol style="list-style-type: none"><li>1 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation.</li><li>2 Set the CCDF option in spectrum analyzer, RBW <math>\geq</math> OBW,</li><li>3 Set the EUT working in highest power level, measured and recorded the 0.1% as PAPR level.</li><li>4 Repeat step 1~3 at other frequency and modulations.</li></ol> |
| Test Instruments: | Refer to section 5.8 for details                                                                                                                                                                                                                                                                                                                                                                          |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                                                          |
| Test results:     | Passed                                                                                                                                                                                                                                                                                                                                                                                                    |

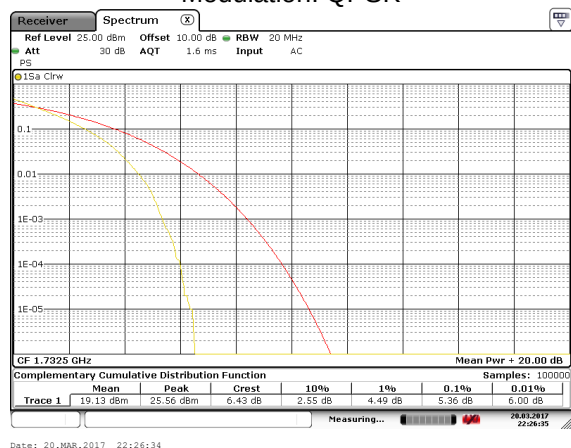
## Measurement Data:

| BW(MHz)                     | Modulation | RB Size | RB Offset | PAPR |
|-----------------------------|------------|---------|-----------|------|
| LTE Band 4 (Middle Channel) |            |         |           |      |
| 20MHz                       | QPSK       | 100     | 0         | 5.36 |
|                             | 16QAM      | 100     | 0         | 6.20 |

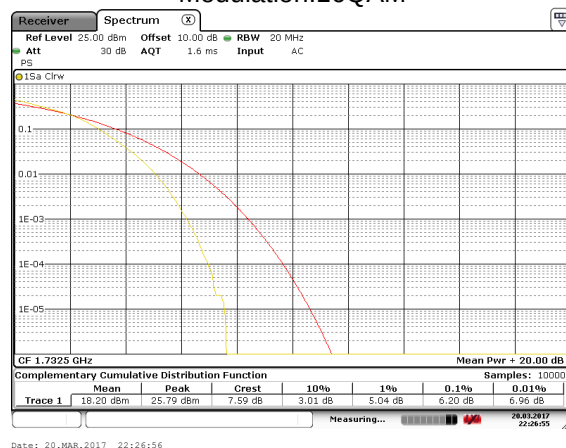
Test plots as below:

LTE Band 4 Middle channel

Modulation: QPSK

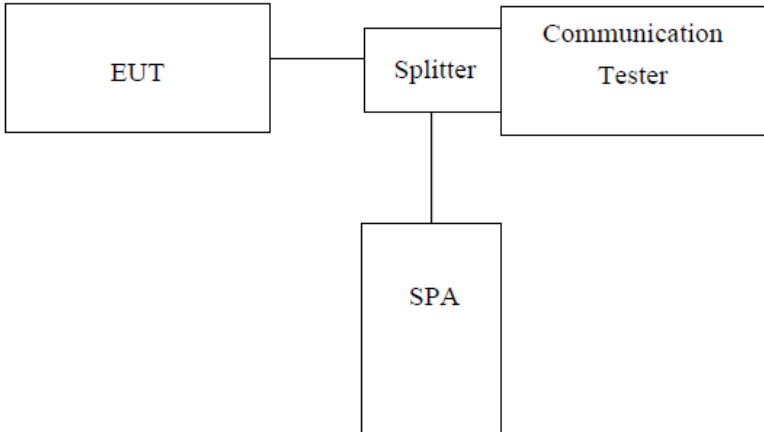


Modulation: 16QAM





## 6.7 Occupy Bandwidth

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | Part 27.53(h)                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Test Method:      | FCC part2.1049                                                                                                                                                                                                                                                                                                                                                                                                                |
| Test setup:       |  <p><i>Note: Measurement setup for testing on Antenna connector</i></p>                                                                                                                                                                                                                                                                     |
| Test Procedure:   | <ol style="list-style-type: none"> <li>1. The EUT's output RF connector was connected with a short cable to the spectrum analyzer</li> <li>2. RBW was set to about 1% ~ 5% of emission BW, VBW= 3 times RBW.</li> <li>3. -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.</li> </ol> |
| Test Instruments: | Refer to section 5.8 for details                                                                                                                                                                                                                                                                                                                                                                                              |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                                                                              |
| Test results:     | Passed                                                                                                                                                                                                                                                                                                                                                                                                                        |

**Measurement Data:**

**LTE Band 4 part:**

| EUT Mode | Channel | Frequency(MHz) | Modulation | 99% OBW (kHz) | -26dBcEBW (kHz) |
|----------|---------|----------------|------------|---------------|-----------------|
| 1.4MHz   | 19957   | 1710.7         | 16QAM      | 1098          | 1260            |
|          |         |                | QPSK       | 1104          | 1248            |
|          | 20175   | 1732.5         | 16QAM      | 1098          | 1260            |
|          |         |                | QPSK       | 1098          | 1278            |
|          | 20393   | 1754.3         | 16QAM      | 1092          | 1248            |
|          |         |                | QPSK       | 1104          | 1260            |
| 3MHz     | 19965   | 1711.5         | 16QAM      | 2724          | 3000            |
|          |         |                | QPSK       | 2736          | 3048            |
|          | 20175   | 1732.5         | 16QAM      | 2712          | 3000            |
|          |         |                | QPSK       | 2736          | 3012            |
|          | 20385   | 1750.5         | 16QAM      | 2736          | 3000            |
|          |         |                | QPSK       | 2736          | 3036            |
| 5MHz     | 19975   | 1712.5         | 16QAM      | 4500          | 4900            |
|          |         |                | QPSK       | 4520          | 4960            |
|          | 20175   | 1732.5         | 16QAM      | 4500          | 4860            |
|          |         |                | QPSK       | 4520          | 5020            |
|          | 20375   | 1752.5         | 16QAM      | 4500          | 4880            |
|          |         |                | QPSK       | 4540          | 4940            |
| 10MHz    | 20000   | 1715.0         | 16QAM      | 9040          | 10080           |
|          |         |                | QPSK       | 9120          | 10240           |
|          | 20175   | 1732.5         | 16QAM      | 9080          | 10080           |
|          |         |                | QPSK       | 9120          | 10200           |
|          | 20350   | 1750.0         | 16QAM      | 9040          | 9960            |
|          |         |                | QPSK       | 9080          | 10160           |
| 15MHz    | 20025   | 1717.5         | 16QAM      | 13560         | 14760           |
|          |         |                | QPSK       | 13500         | 14760           |
|          | 20175   | 1732.5         | 16QAM      | 13560         | 14880           |
|          |         |                | QPSK       | 13560         | 14820           |
|          | 20325   | 1747.5         | 16QAM      | 13440         | 14880           |
|          |         |                | QPSK       | 13500         | 14820           |
| 20MHz    | 20050   | 1720.0         | 16QAM      | 18000         | 19120           |
|          |         |                | QPSK       | 18000         | 19600           |
|          | 20175   | 1732.5         | 16QAM      | 18000         | 19120           |
|          |         |                | QPSK       | 18080         | 19680           |
|          | 20300   | 1745.0         | 16QAM      | 17920         | 19280           |
|          |         |                | QPSK       | 17920         | 19440           |

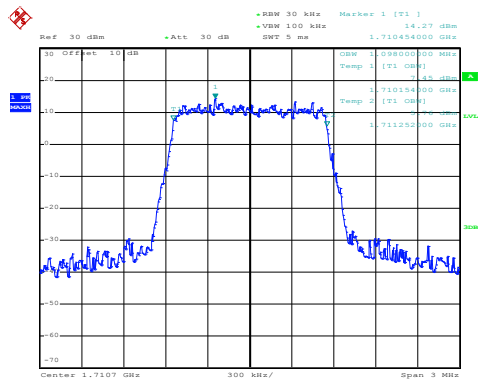
Test plot as follows:

LTE Band 4 part

Test Item:99% Occupy bandwidth

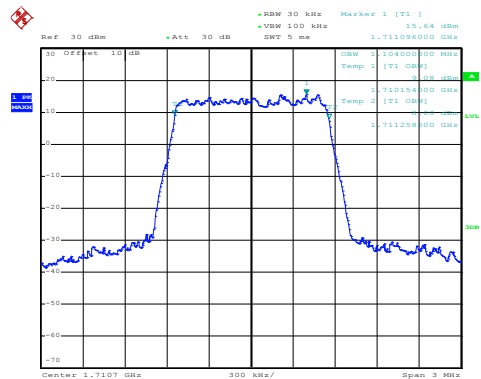
BW: 1.4MHz

Modulation:16QAM



Date: 19.MAR.2017 18:47:30

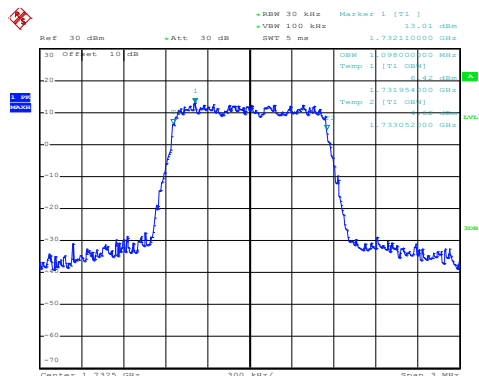
Modulation: QPSK



Date: 19.MAR.2017 18:47:25

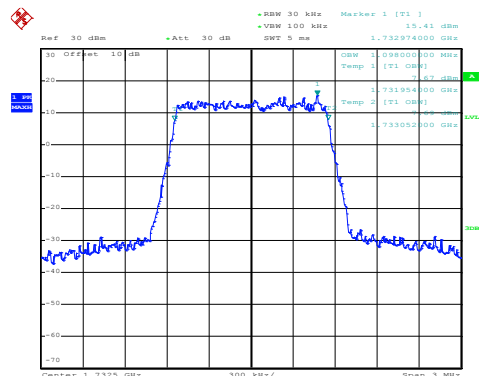
Lowest channel

Modulation:16QAM



Date: 19.MAR.2017 18:48:21

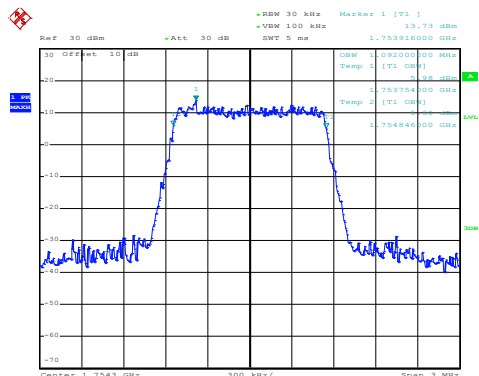
Modulation: QPSK



Date: 19.MAR.2017 18:48:16

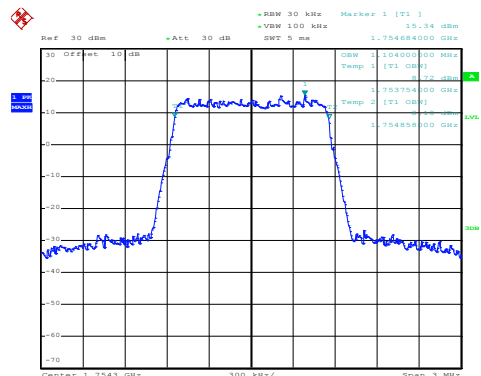
Middle channel

Modulation:16QAM



Date: 19.MAR.2017 18:48:51

Modulation: QPSK

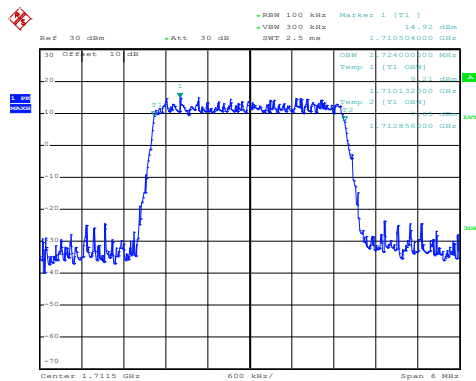


Date: 19.MAR.2017 18:48:42

Highest channel

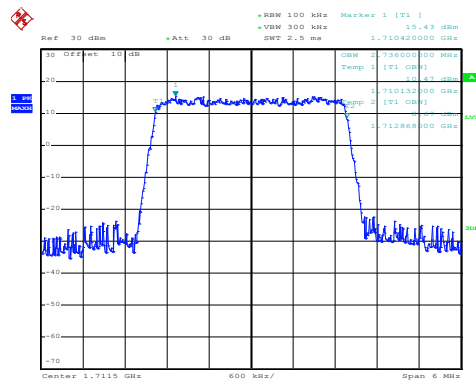
Test Item:99% Occupy bandwidth  
BW: 3MHz

Modulation:16QAM



Date: 19.MAR.2017 18:49:51

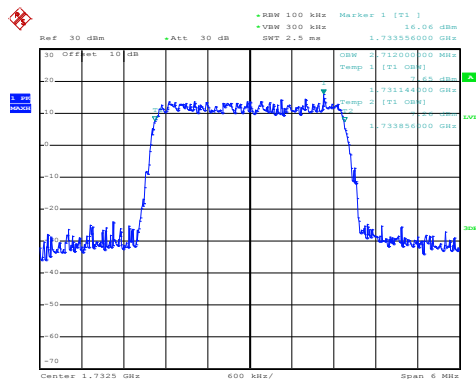
Modulation: QPSK



Date: 19.MAR.2017 18:49:47

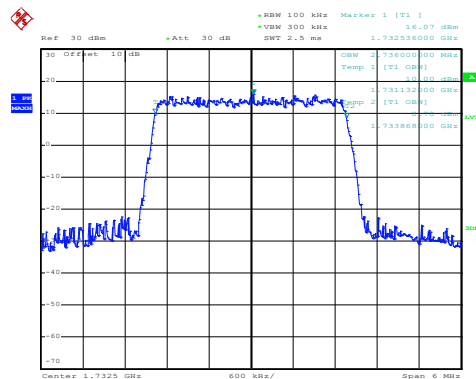
Lowest channel

Modulation:16QAM



Date: 19.MAR.2017 18:50:07

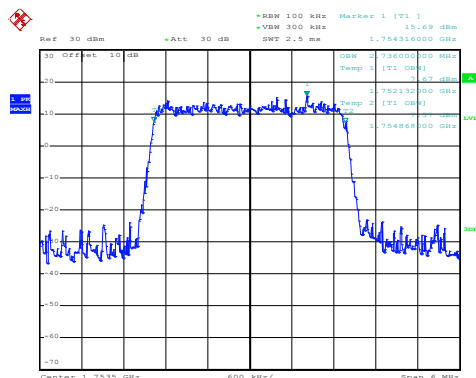
Modulation: QPSK



Date: 19.MAR.2017 18:50:25

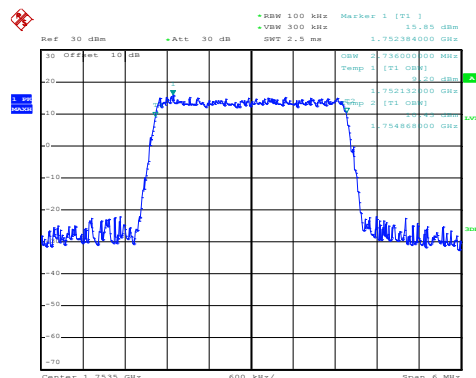
Middle channel

Modulation:16QAM



Date: 19.MAR.2017 18:50:50

Modulation: QPSK

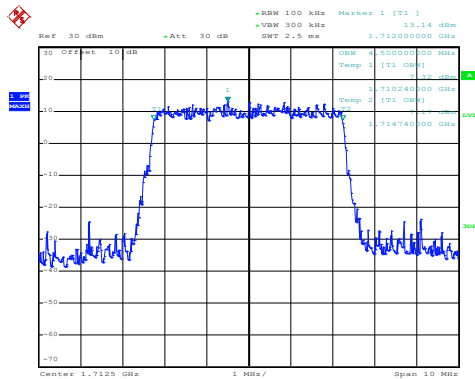


Date: 19.MAR.2017 18:51:34

Highest channel

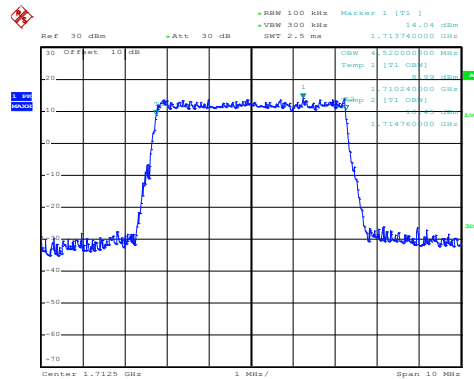
Test Item:99% Occupy bandwidth  
BW: 5MHz

Modulation:16QAM



Date: 19.MAR.2017 18:52:13

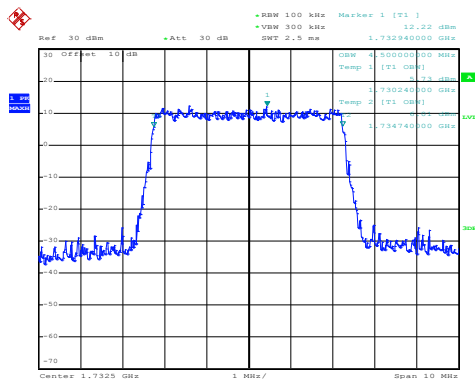
Modulation: QPSK



Date: 19.MAR.2017 18:52:09

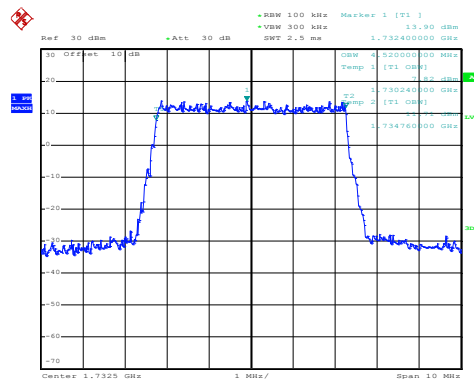
Lowest channel

Modulation:16QAM



Date: 19.MAR.2017 18:52:53

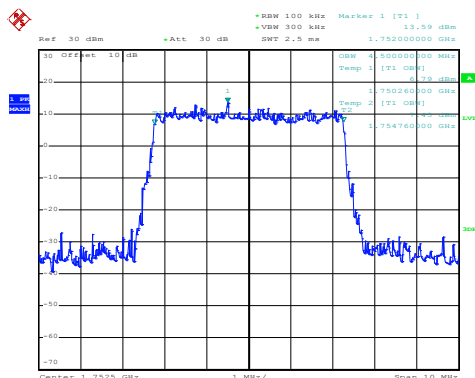
Modulation: QPSK



Date: 19.MAR.2017 18:52:49

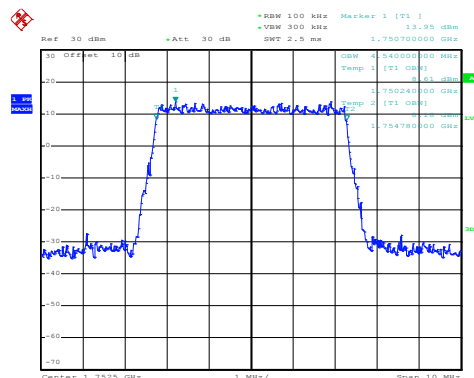
Middle channel

Modulation:16QAM



Date: 19.MAR.2017 18:53:10

Modulation: QPSK



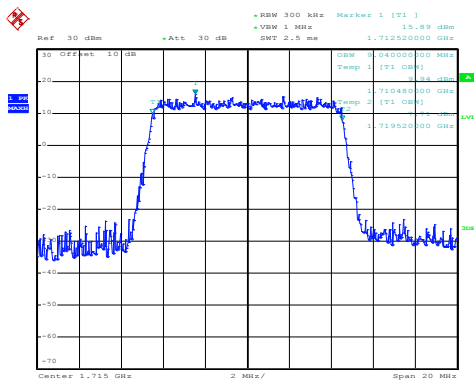
Date: 19.MAR.2017 18:53:06

Highest channel

Test Item: 99% Occupancy bandwidth

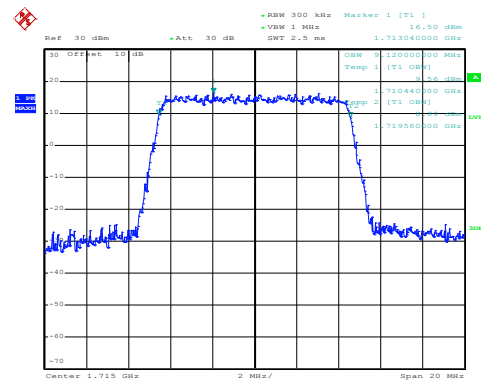
BW: 10MHz

Modulation: 16QAM



Date: 19.MAR.2017 18:54:15

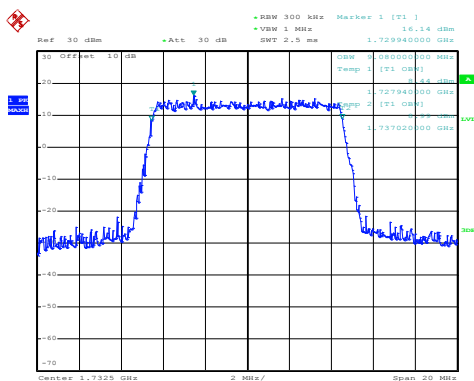
Modulation: QPSK



Date: 19.MAR.2017 18:54:09

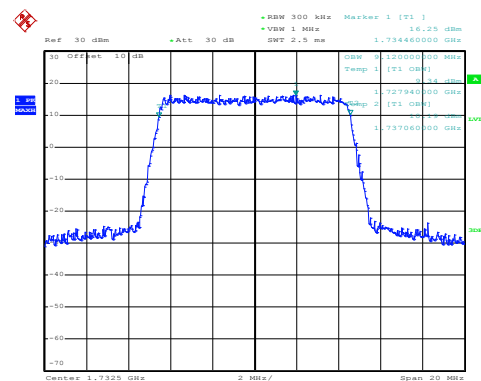
Lowest channel

Modulation: 16QAM



Date: 19.MAR.2017 18:54:35

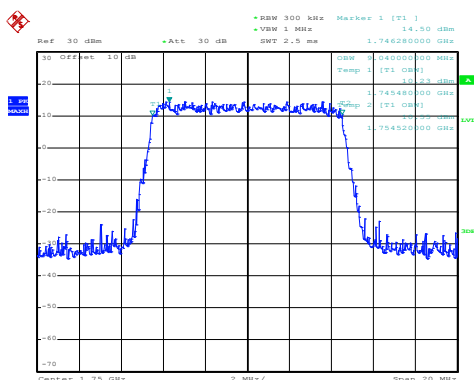
Modulation: QPSK



Date: 19.MAR.2017 18:54:31

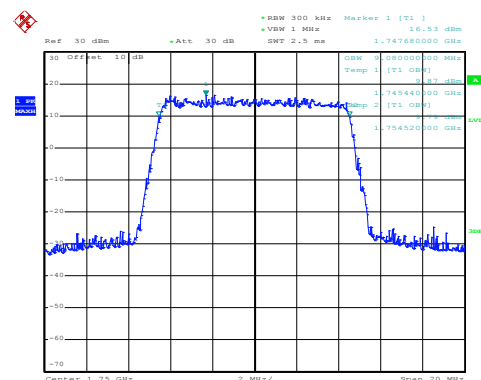
Middle channel

Modulation: 16QAM



Date: 19.MAR.2017 18:55:13

Modulation: QPSK



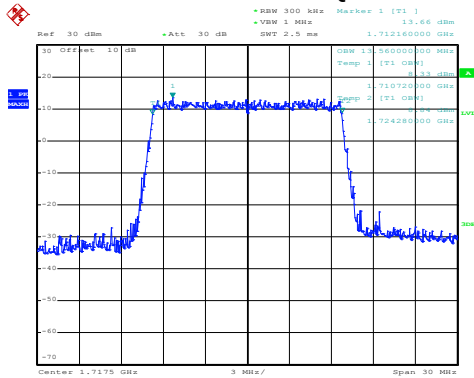
Date: 19.MAR.2017 18:55:09

Highest channel

Test Item: 99% Occupancy bandwidth

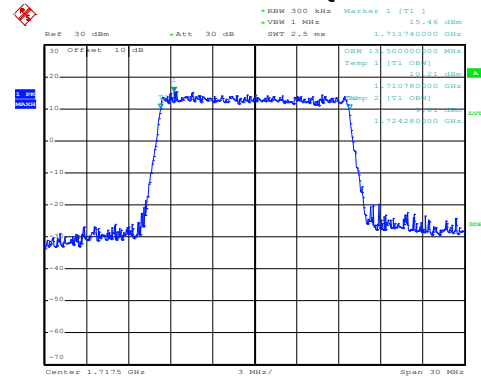
BW: 15MHz

Modulation: 16QAM



Date: 19.MAR.2017 18:55:54

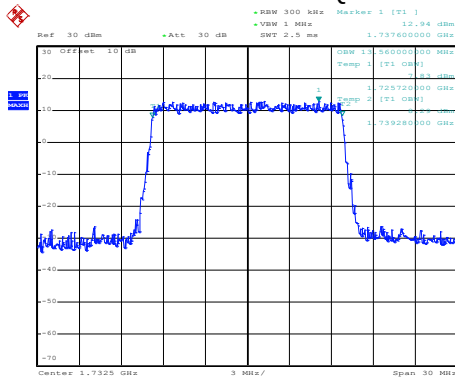
Modulation: QPSK



Date: 19.MAR.2017 18:55:50

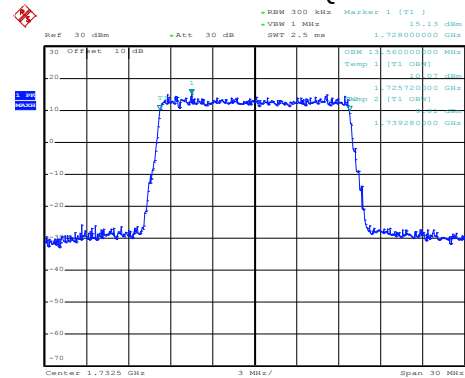
Lowest channel

Modulation: 16QAM



Date: 19.MAR.2017 18:56:34

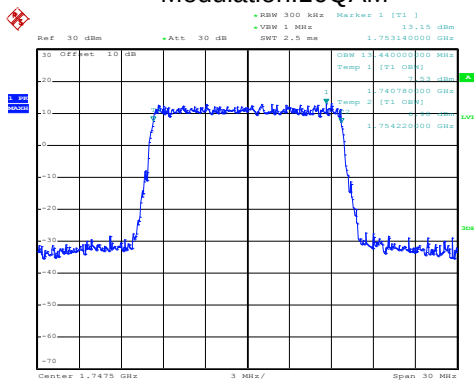
Modulation: QPSK



Date: 19.MAR.2017 18:56:30

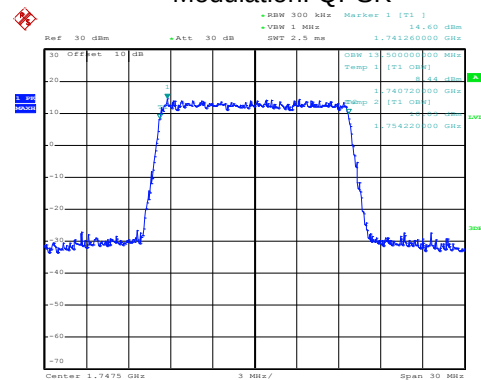
Middle channel

Modulation: 16QAM



Date: 19.MAR.2017 18:56:50

Modulation: QPSK

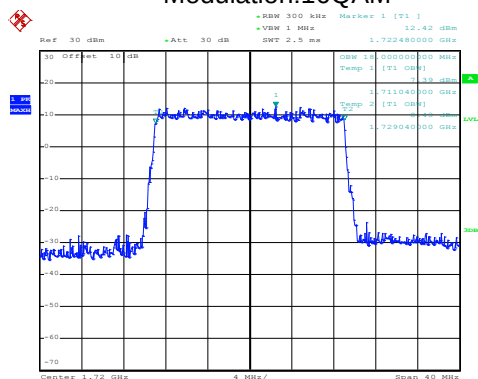


Date: 19.MAR.2017 18:56:46

Highest channel

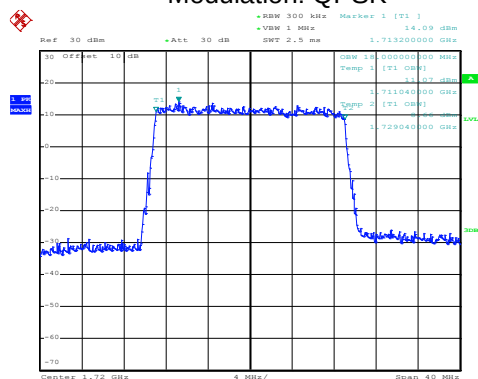
Test Item: 99% Occupancy bandwidth  
BW: 20MHz

Modulation: 16QAM



Date: 19.MAR.2017 18:58:04

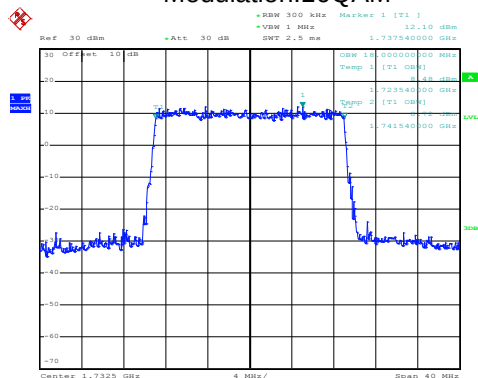
Modulation: QPSK



Date: 19.MAR.2017 18:58:00

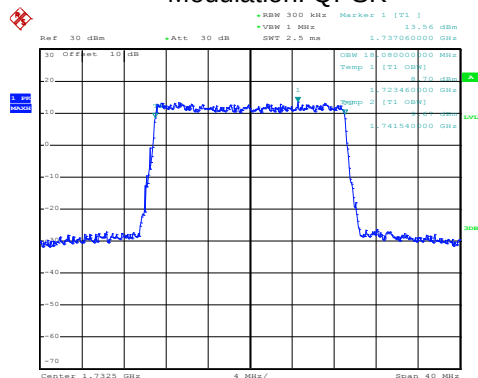
Lowest channel

Modulation: 16QAM



Date: 19.MAR.2017 18:58:20

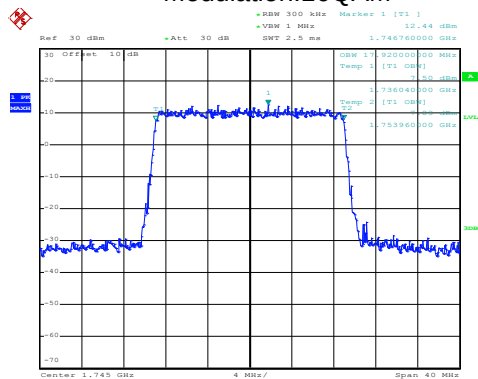
Modulation: QPSK



Date: 19.MAR.2017 18:58:17

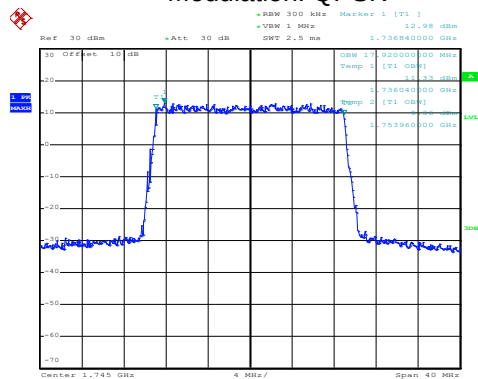
Middle channel

Modulation: 16QAM



Date: 19.MAR.2017 18:59:02

Modulation: QPSK



Date: 19.MAR.2017 18:58:58

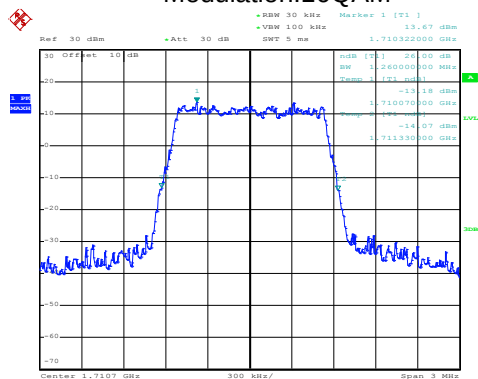
Highest channel



Test Item:-26dBc bandwidth

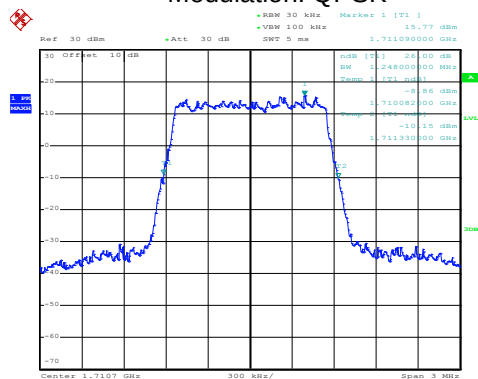
BW: 1.4MHz

Modulation:16QAM



Date: 19.MAR.2017 18:47:44

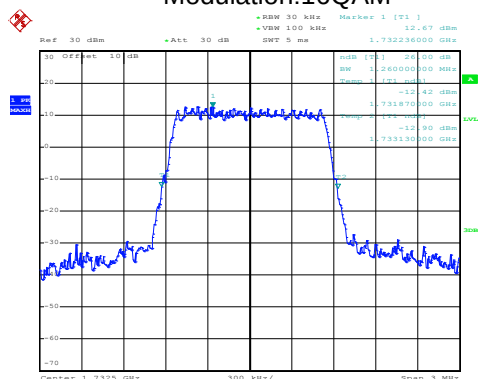
Modulation: QPSK



Date: 19.MAR.2017 18:47:40

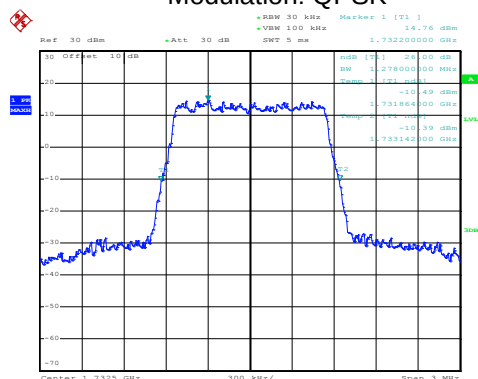
Lowest channel

Modulation:16QAM



Date: 19.MAR.2017 18:48:08

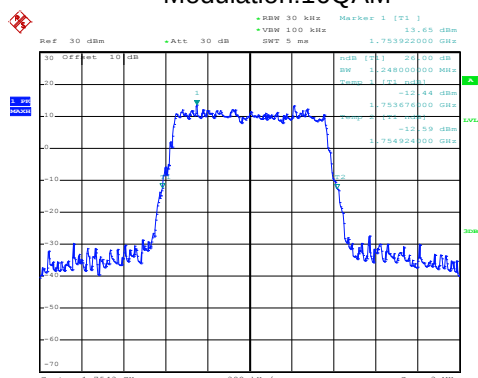
Modulation: QPSK



Date: 19.MAR.2017 18:48:05

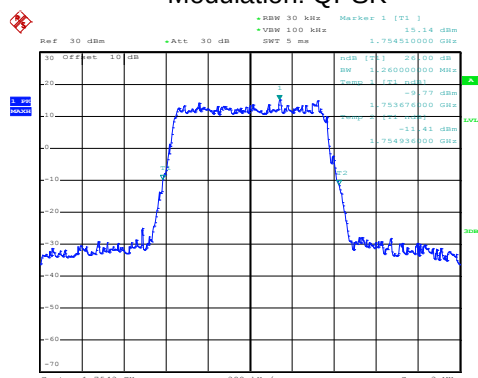
Middle channel

Modulation:16QAM



Date: 19.MAR.2017 18:48:59

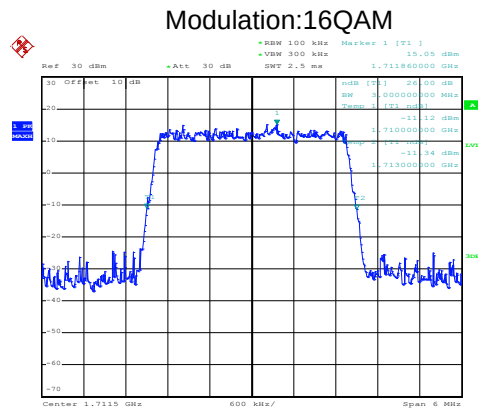
Modulation: QPSK



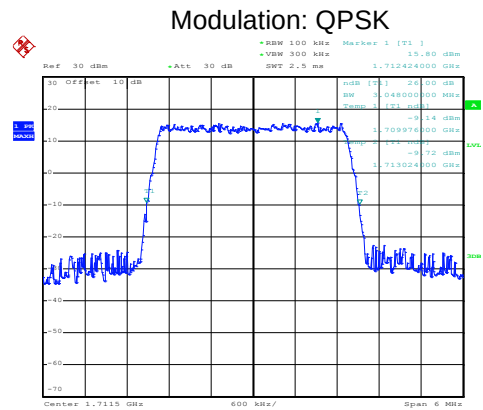
Date: 19.MAR.2017 18:48:56

Highest channel

Test Item:-26dBc bandwidth  
BW: 3MHz

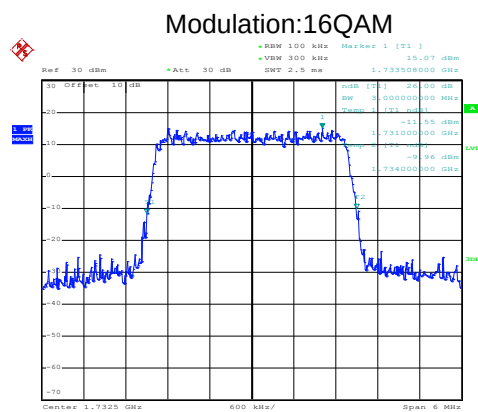


Date: 19.MAR.2017 18:49:38

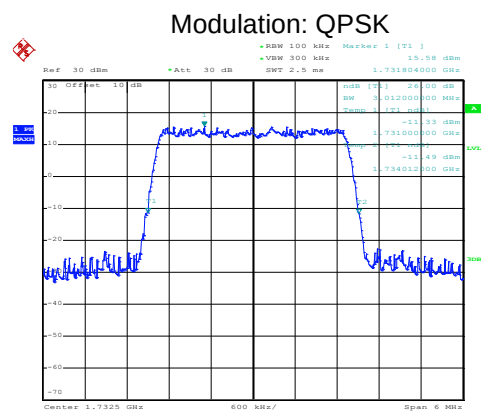


Date: 19.MAR.2017 18:49:34

Lowest channel

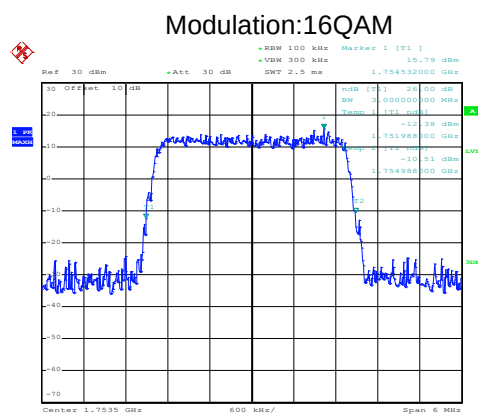


Date: 19.MAR.2017 18:50:15

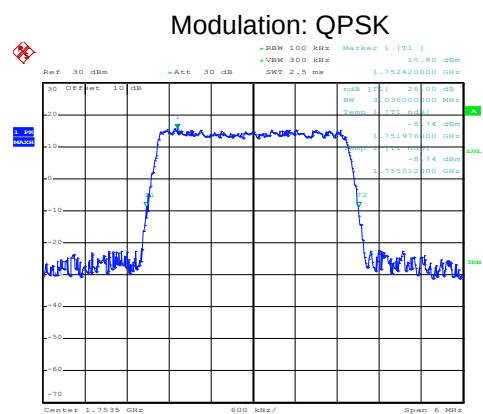


Date: 19.MAR.2017 18:50:12

Middle channel



Date: 19.MAR.2017 18:51:06



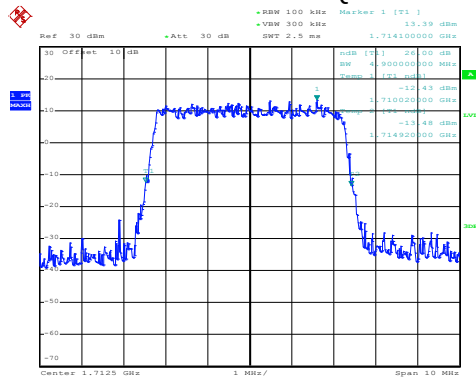
Date: 19.MAR.2017 18:51:02

Highest channel

Test Item:-26dBc bandwidth

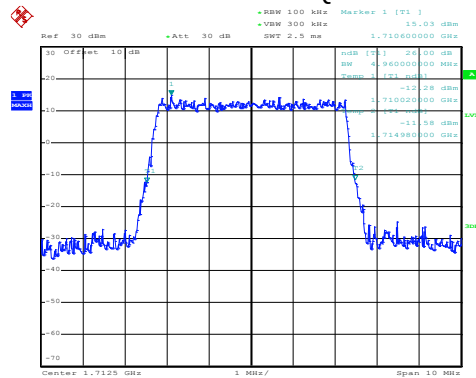
BW: 5MHz

Modulation:16QAM



Date: 19.MAR.2017 18:52:24

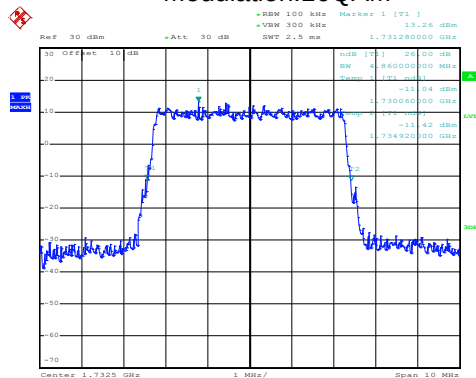
Modulation: QPSK



Date: 19.MAR.2017 18:52:19

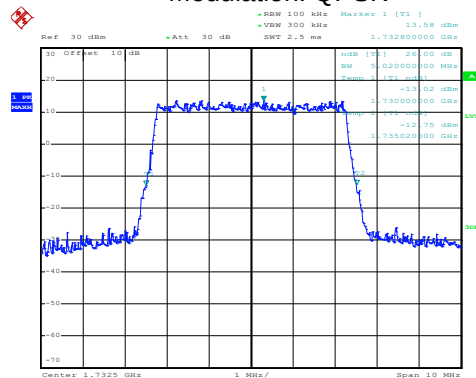
Lowest channel

Modulation:16QAM



Date: 19.MAR.2017 18:52:42

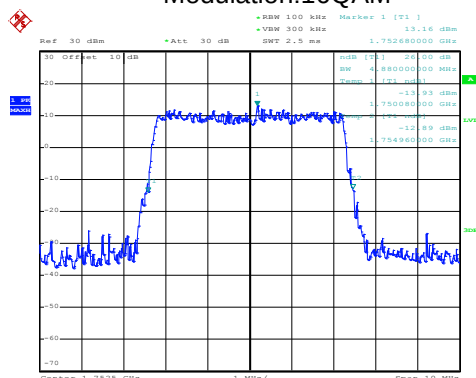
Modulation: QPSK



Date: 19.MAR.2017 18:52:38

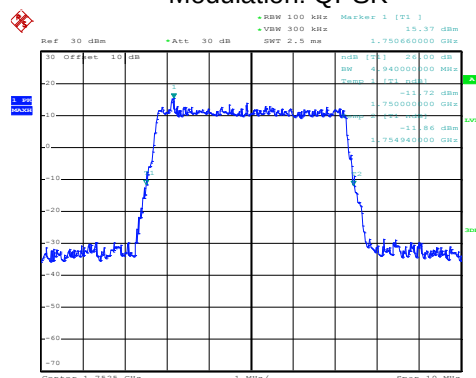
Middle channel

Modulation:16QAM



Date: 19.MAR.2017 18:53:20

Modulation: QPSK



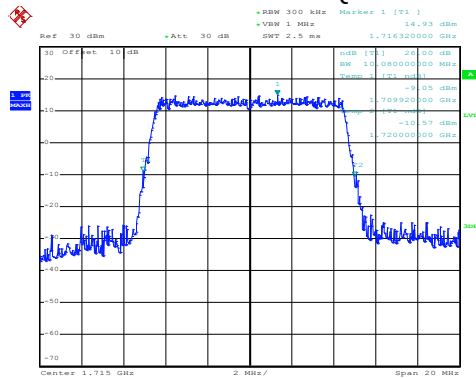
Date: 19.MAR.2017 18:53:16

Highest channel

Test Item:-26dBc bandwidth

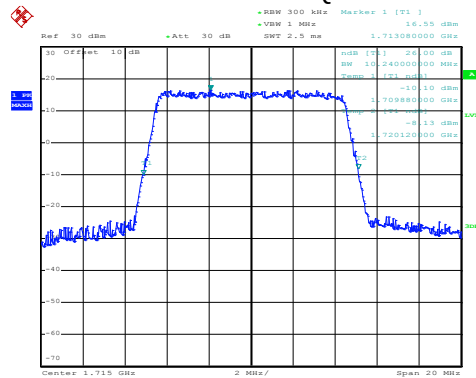
BW: 10MHz

Modulation:16QAM



Date: 19.MAR.2017 18:54:01

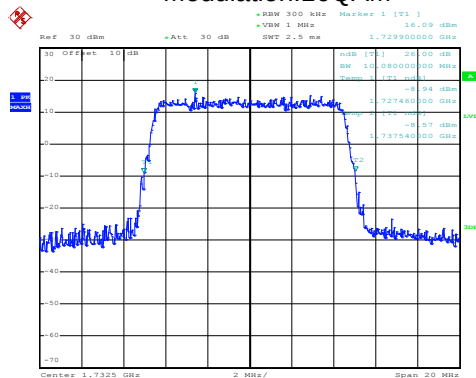
Modulation: QPSK



Date: 19.MAR.2017 18:53:57

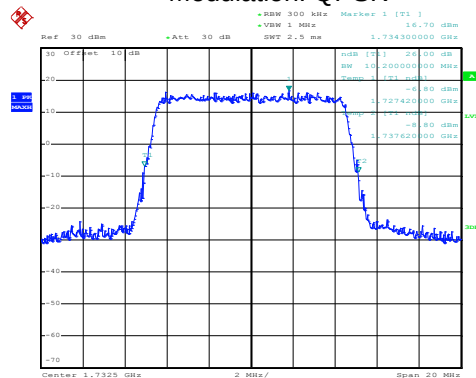
Lowest channel

Modulation:16QAM



Date: 19.MAR.2017 18:54:45

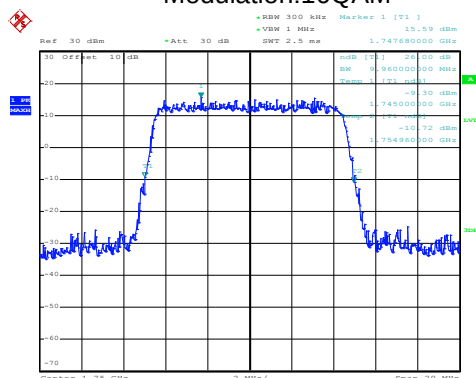
Modulation: QPSK



Date: 19.MAR.2017 18:54:41

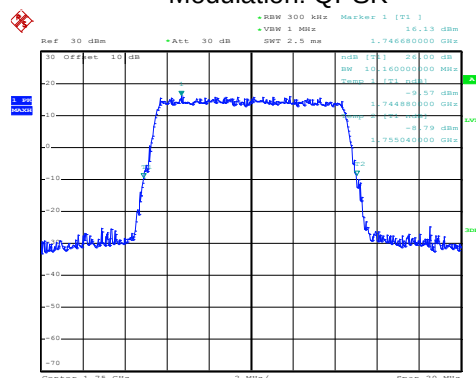
Middle channel

Modulation:16QAM



Date: 19.MAR.2017 18:55:03

Modulation: QPSK



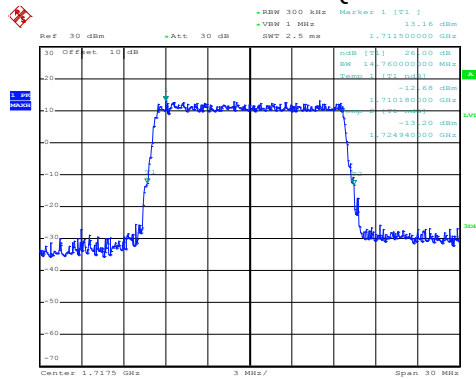
Date: 19.MAR.2017 18:54:59

Highest channel

Test Item:-26dBc bandwidth

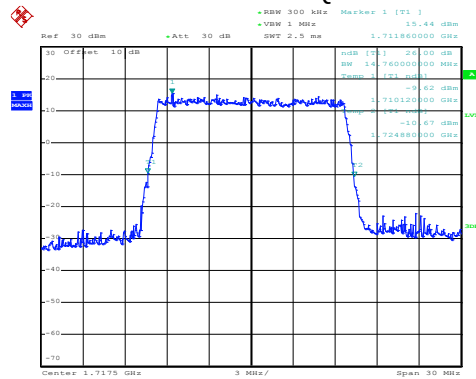
BW: 15MHz

Modulation:16QAM



Date: 19.MAR.2017 18:56:06

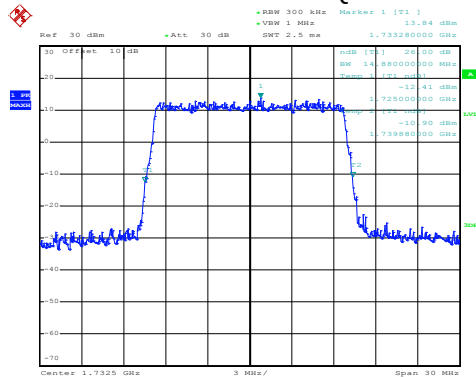
Modulation: QPSK



Date: 19.MAR.2017 18:56:02

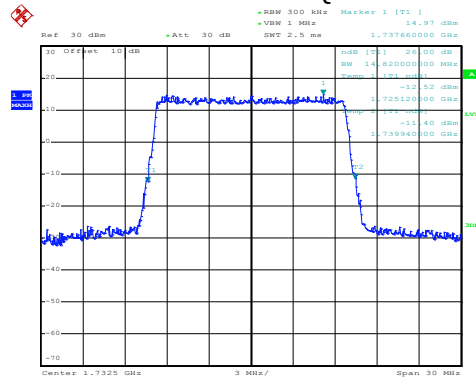
Lowest channel

Modulation:16QAM



Date: 19.MAR.2017 18:56:24

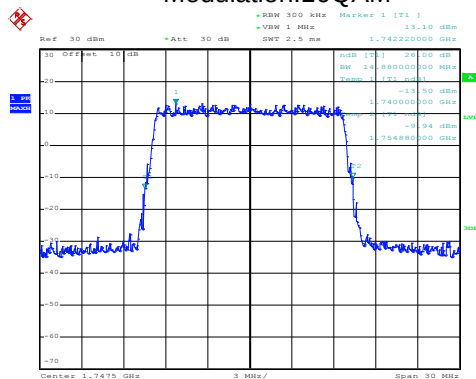
Modulation: QPSK



Date: 19.MAR.2017 18:56:20

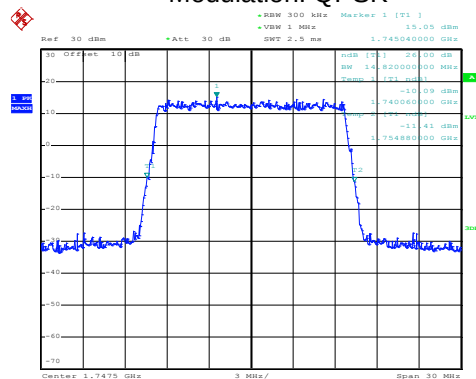
Middle channel

Modulation:16QAM



Date: 19.MAR.2017 18:57:01

Modulation: QPSK



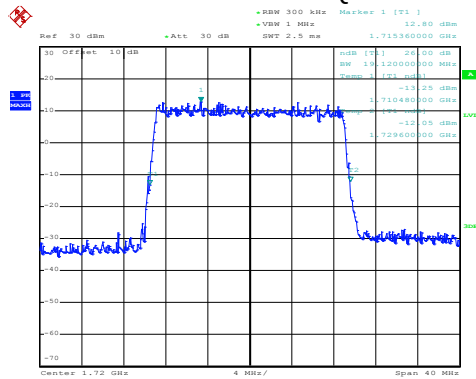
Date: 19.MAR.2017 18:56:57

Highest channel

Test Item:-26dBc bandwidth

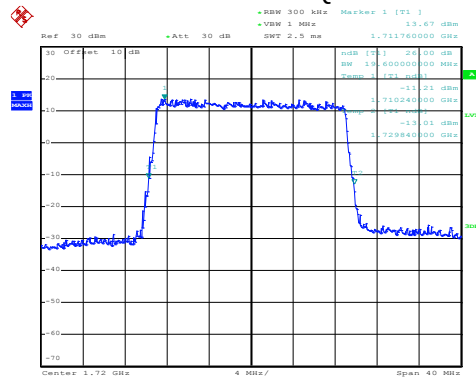
BW: 20MHz

Modulation:16QAM



Date: 19.MAR.2017 18:57:36

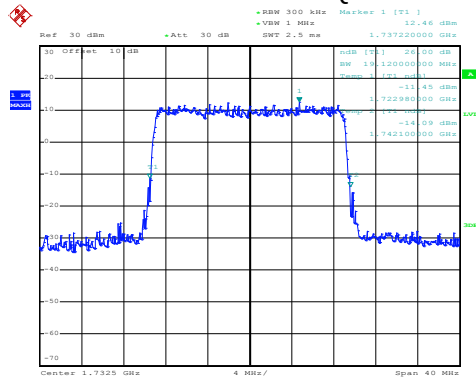
Modulation: QPSK



Date: 19.MAR.2017 18:57:32

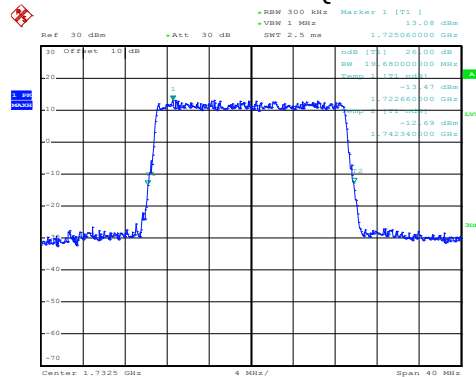
Lowest channel

Modulation:16QAM



Date: 19.MAR.2017 18:58:31

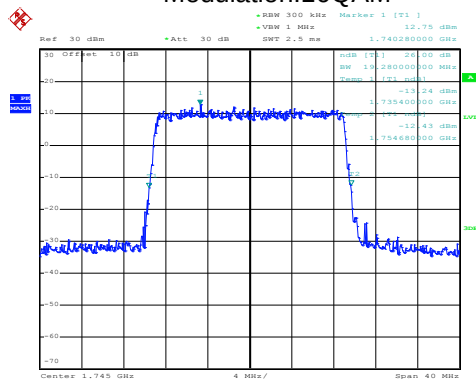
Modulation: QPSK



Date: 19.MAR.2017 18:58:28

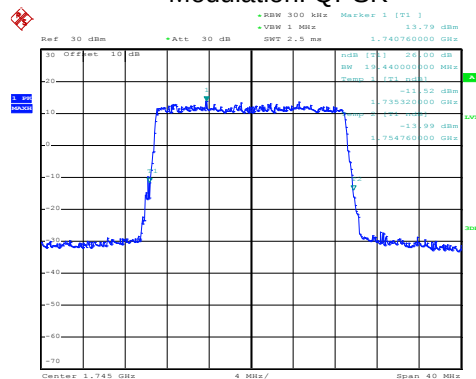
Middle channel

Modulation:16QAM



Date: 19.MAR.2017 18:58:52

Modulation: QPSK



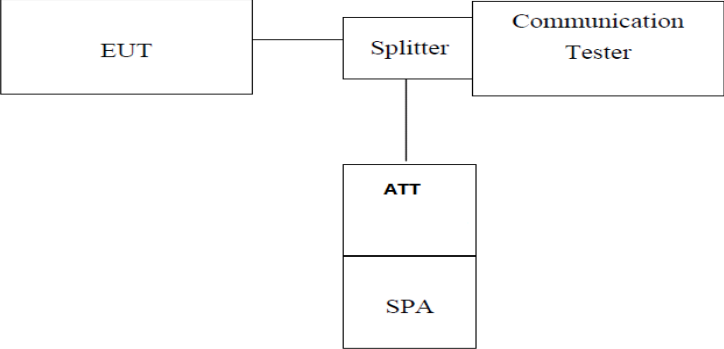
Date: 19.MAR.2017 18:58:48

Highest channel

## 6.8 Modulation Characteristic

According to FCC § 2.1047(d), 27L there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

## 6.9 Out of band emission at antenna terminals

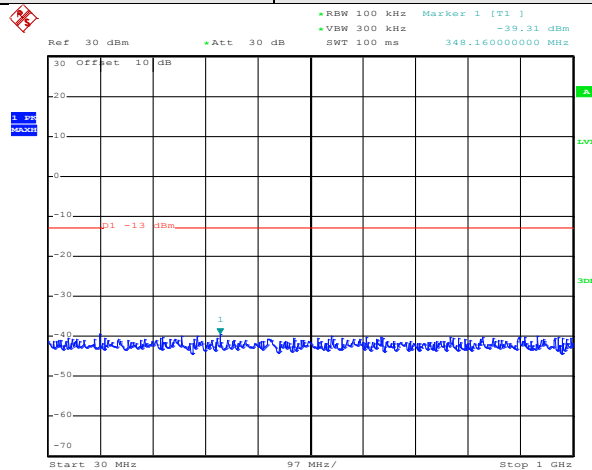
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | Part 27.53(h)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Test Method:      | FCC part2.1051                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Limit:            | Band2, Band4: The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB (-13 dBm).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Test setup:       |  <p><i>Note: Measurement setup for testing on Antenna connector</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Test Procedure:   | <ol style="list-style-type: none"> <li>1 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation.</li> <li>2 The resolution bandwidth of the spectrum analyzer was set at 100 kHz when below 1GHz, 1MHz when above 1 GHz; sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.</li> <li>3 For the out of band: Set the RBW=100 kHz, VBW=300 kHz when below 1 GHz, RBW =1 MHz, VBW=3 MHz when above 1 GHz, Start=30MHz, Stop= 10th harmonic.</li> <li>4 Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions.</li> </ol> |
| Test Instruments: | Refer to section 5.8 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Test results:     | Passed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

Test plots as follows:

## Spurious emission

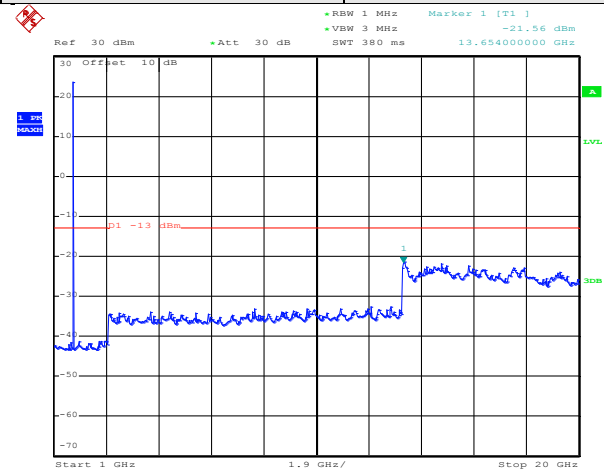
## LTE band 4 Part:1.4MHz

|            |                                                      |               |                |
|------------|------------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(1.4 MHz 16QAM)<br>RB Size 1 & RB Offset 0 | Test Channel: | Lowest channel |
|------------|------------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:33:25

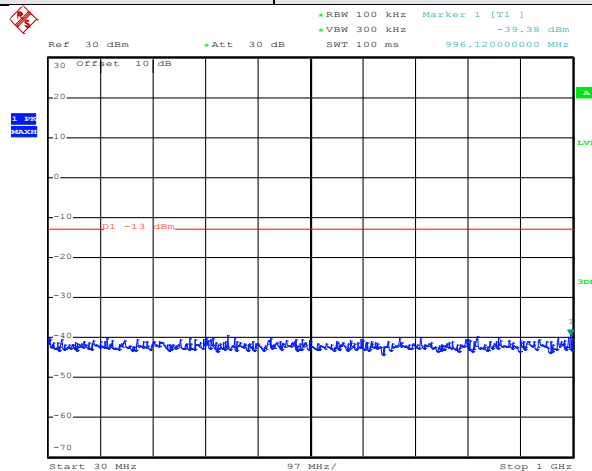
30MHz~1GHz



Date: 19.MAR.2017 19:47:03

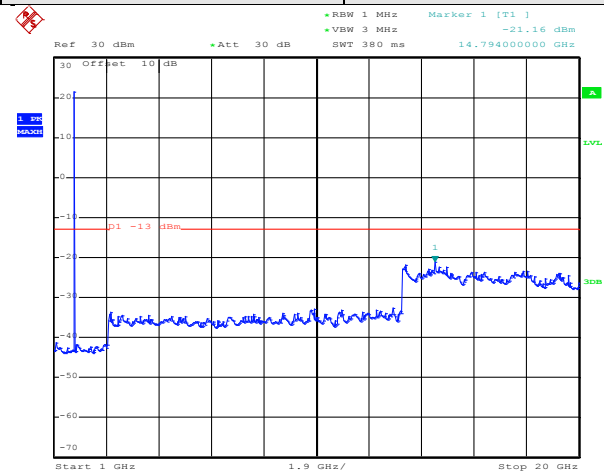
1GHz~25GHz

|            |                                                      |               |                |
|------------|------------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(1.4 MHz 16QAM)<br>RB Size 1 & RB Offset 0 | Test Channel: | Middle channel |
|------------|------------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:33:55

30MHz~1GHz

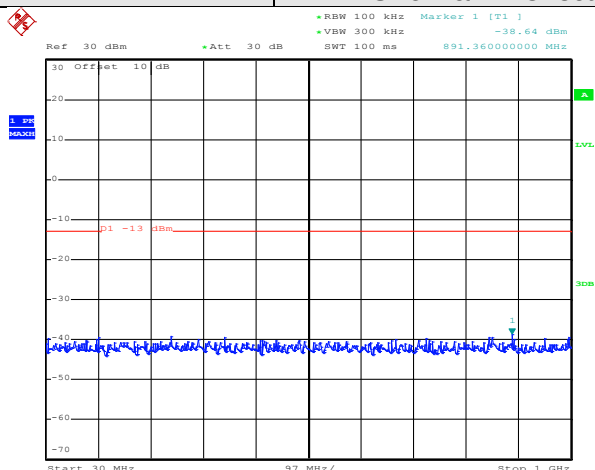


Date: 19.MAR.2017 19:48:06

1GHz~25GHz

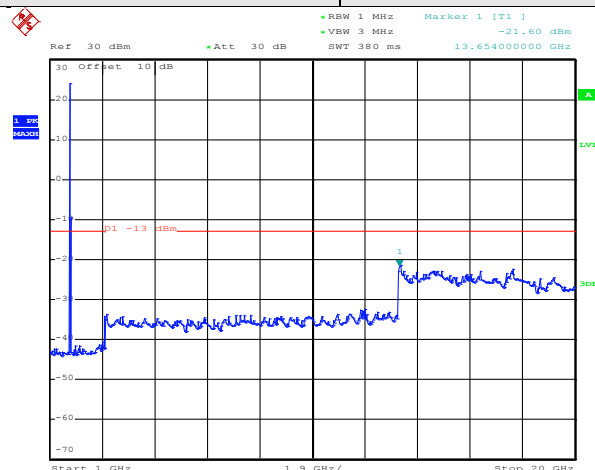


|            |                                                      |               |                 |
|------------|------------------------------------------------------|---------------|-----------------|
| Test Mode: | LTE band 4(1.4 MHz 16QAM)<br>RB Size 1 & RB Offset 0 | Test Channel: | Highest channel |
|------------|------------------------------------------------------|---------------|-----------------|



Date: 19.MAR.2017 19:34:26

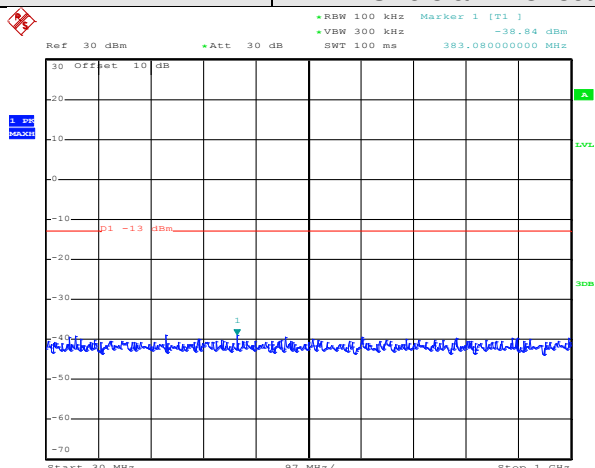
0MHz~1GHz



Date: 19.MAR.2017 19:48:59

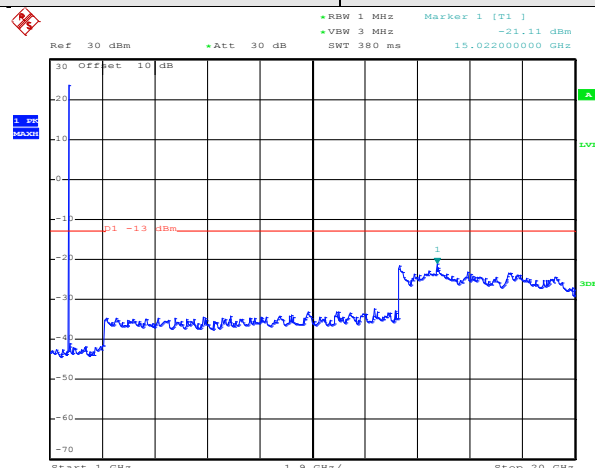
1GHz~25GHz

|            |                                                      |               |                |
|------------|------------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(1.4 MHz 16QAM)<br>RB Size 3 & RB Offset 0 | Test Channel: | Lowest channel |
|------------|------------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:33:35

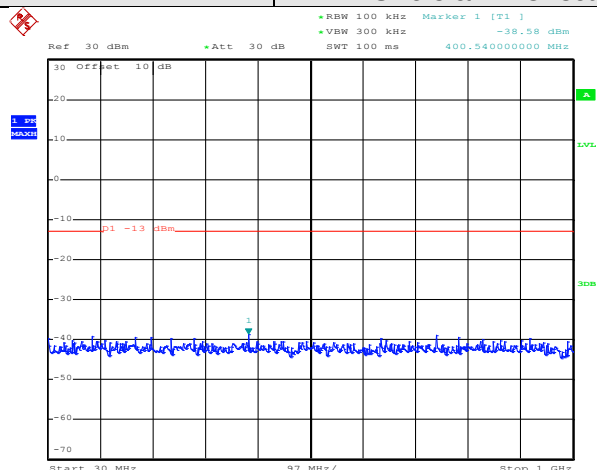
30MHz~1GHz



Date: 19.MAR.2017 19:47:23

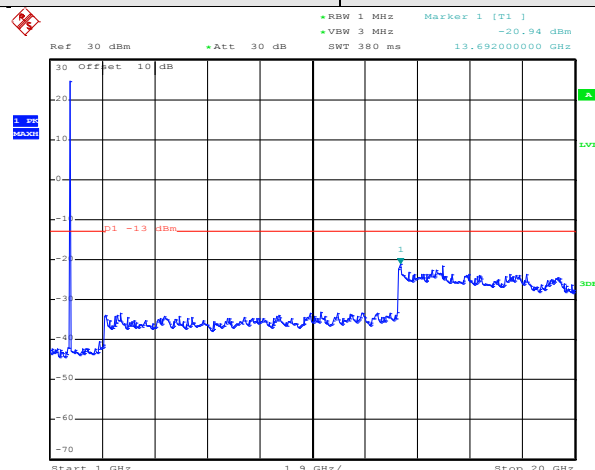
1GHz~25GHz

|            |                                                      |               |                |
|------------|------------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(1.4 MHz 16QAM)<br>RB Size 3 & RB Offset 0 | Test Channel: | Middle channel |
|------------|------------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:34:04

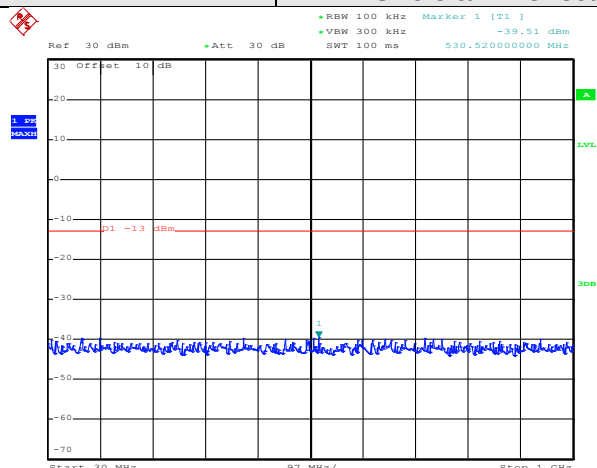
30MHz~1GHz



Date: 19.MAR.2017 19:48:23

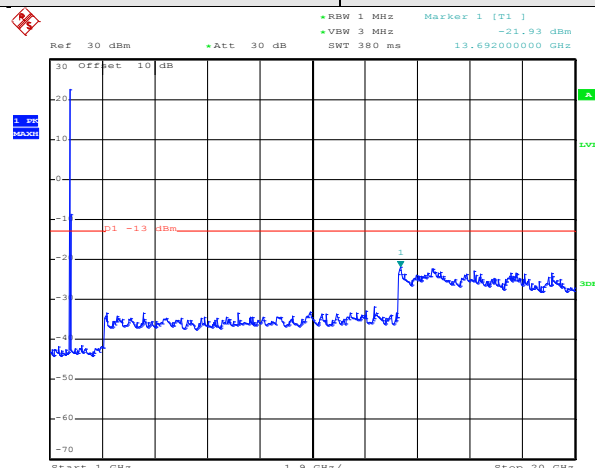
1GHz~25GHz

|            |                                                      |               |                 |
|------------|------------------------------------------------------|---------------|-----------------|
| Test Mode: | LTE band 4(1.4 MHz 16QAM)<br>RB Size 3 & RB Offset 0 | Test Channel: | Highest channel |
|------------|------------------------------------------------------|---------------|-----------------|



Date: 19.MAR.2017 19:34:37

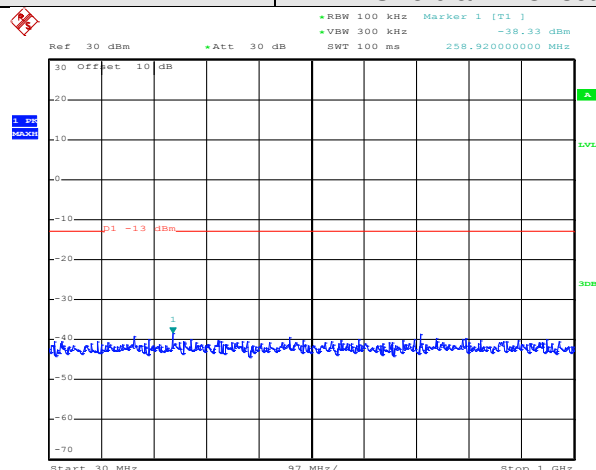
30MHz~1GHz



Date: 19.MAR.2017 19:49:20

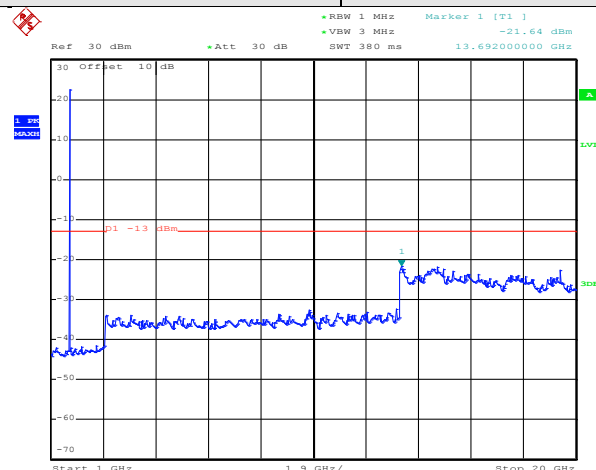
1GHz~25GHz

|            |                                                      |               |                |
|------------|------------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(1.4 MHz 16QAM)<br>RB Size 6 & RB Offset 0 | Test Channel: | Lowest channel |
|------------|------------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:33:44

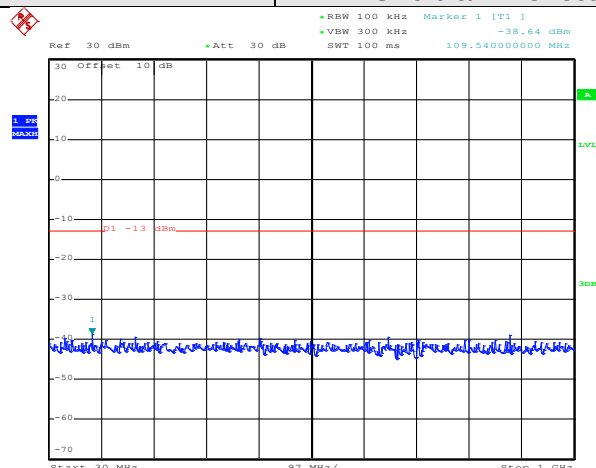
30MHz~1GHz



Date: 19.MAR.2017 19:47:39

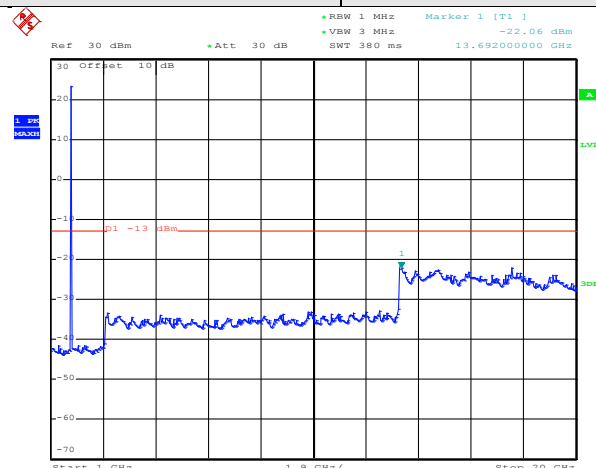
1GHz~25GHz

|            |                                                      |               |                |
|------------|------------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(1.4 MHz 16QAM)<br>RB Size 6 & RB Offset 0 | Test Channel: | Middle channel |
|------------|------------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:34:14

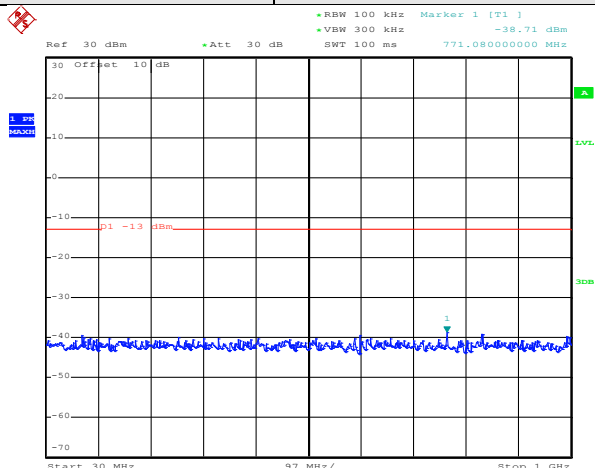
30MHz~1GHz



Date: 19.MAR.2017 19:48:37

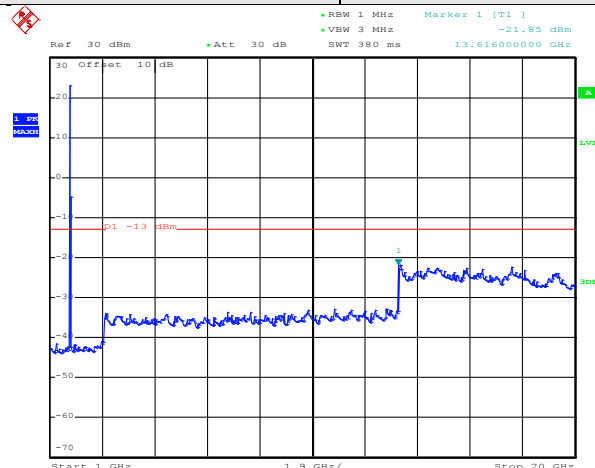
1GHz~25GHz

|            |                                                      |               |                 |
|------------|------------------------------------------------------|---------------|-----------------|
| Test Mode: | LTE band 4(1.4 MHz 16QAM)<br>RB Size 6 & RB Offset 0 | Test Channel: | Highest channel |
|------------|------------------------------------------------------|---------------|-----------------|



Date: 19.MAR.2017 19:34:51

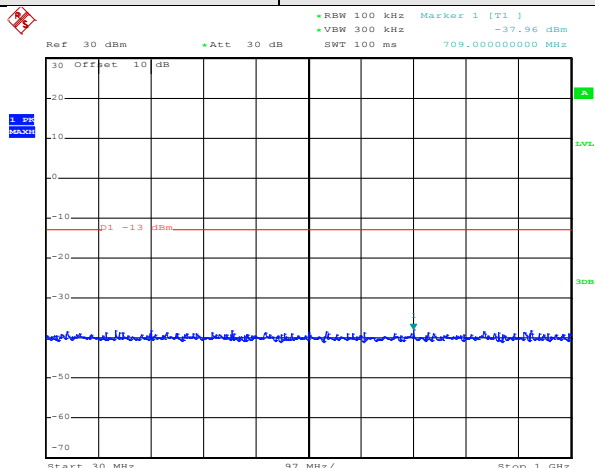
30MHz~1GHz



Date: 19.MAR.2017 19:49:45

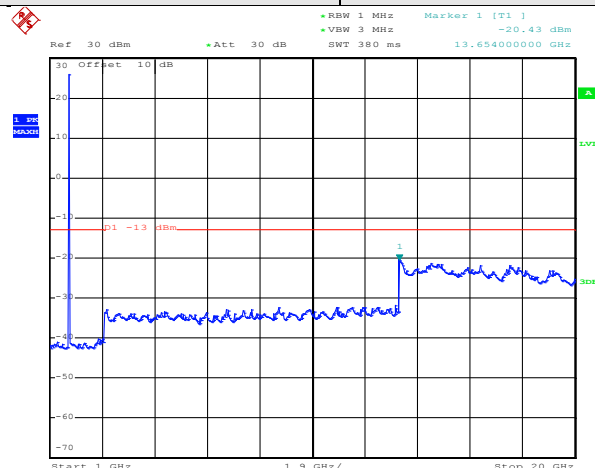
1GHz~25GHz

|            |                                                     |               |                |
|------------|-----------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(1.4 MHz QPSK)<br>RB Size 1 & RB Offset 0 | Test Channel: | Lowest channel |
|------------|-----------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:33:20

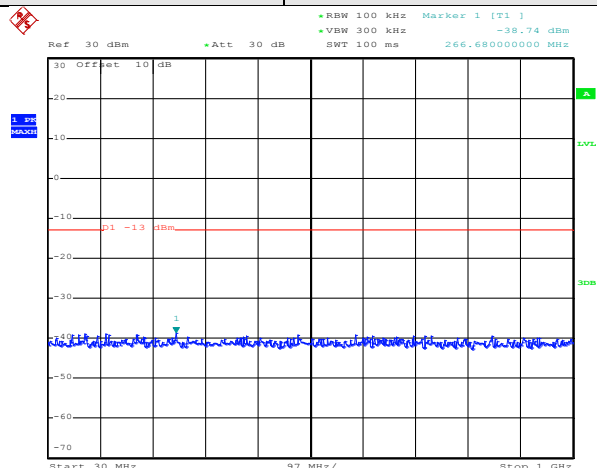
30MHz~1GHz



Date: 19.MAR.2017 19:46:41

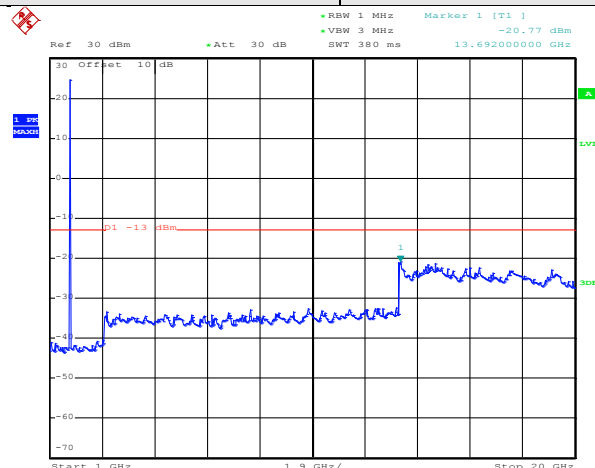
1GHz~25GHz

| Test Mode: | LTE band 4(1.4 MHz QPSK)<br>RB Size 1 & RB Offset 0 | Test Channel: | Middle channel |
|------------|-----------------------------------------------------|---------------|----------------|
|------------|-----------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:33:52

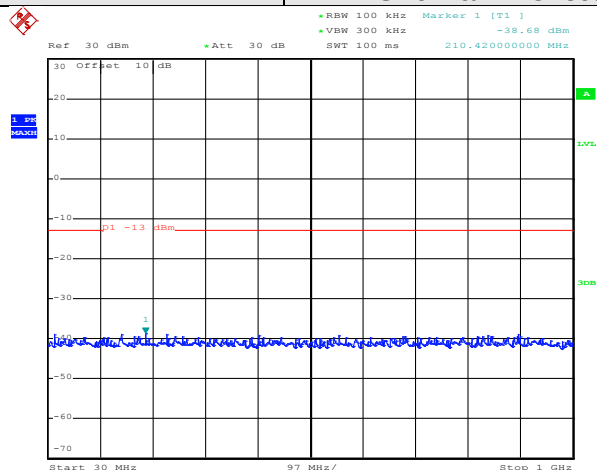
30MHz~1GHz



Date: 19.MAR.2017 19:48:00

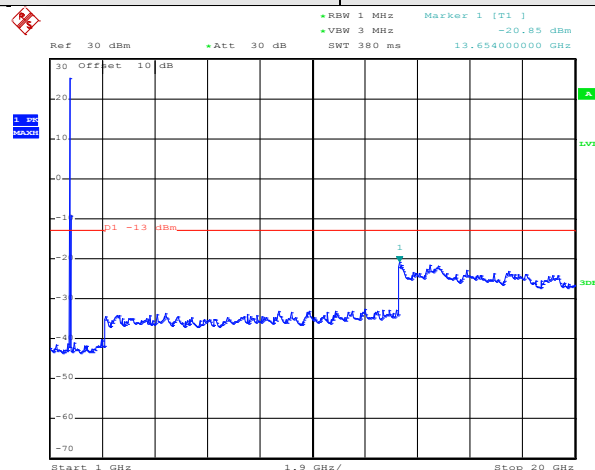
1GHz~25GHz

| Test Mode: | LTE band 4(1.4 MHz QPSK)<br>RB Size 1 & RB Offset 0 | Test Channel: | Highest channel |
|------------|-----------------------------------------------------|---------------|-----------------|
|------------|-----------------------------------------------------|---------------|-----------------|



Date: 19.MAR.2017 19:34:22

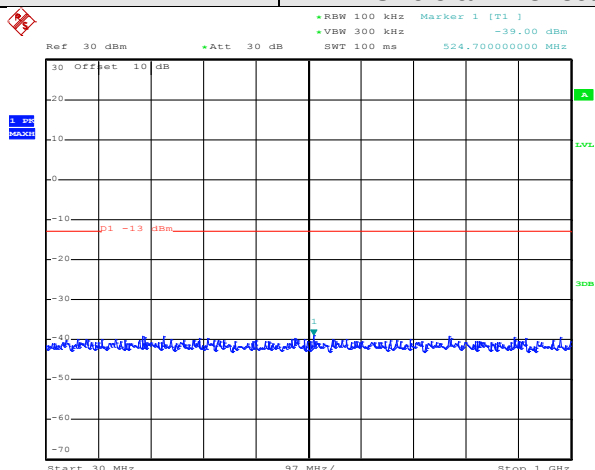
30MHz~1GHz



Date: 19.MAR.2017 19:48:53

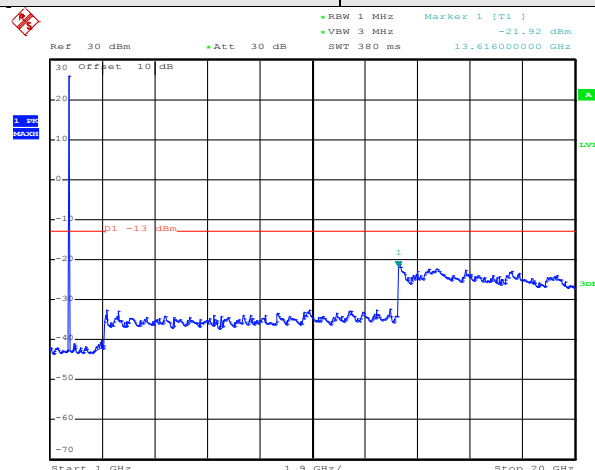
1GHz~25GHz

|            |                                                     |               |                |
|------------|-----------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(1.4 MHz QPSK)<br>RB Size 3 & RB Offset 0 | Test Channel: | Lowest channel |
|------------|-----------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:33:31

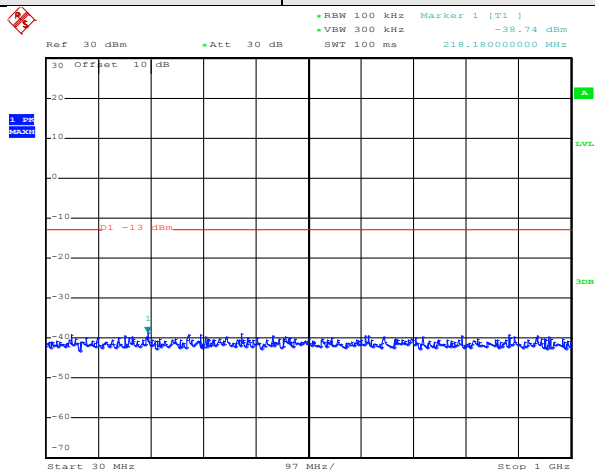
30MHz~1GHz



Date: 19.MAR.2017 19:47:17

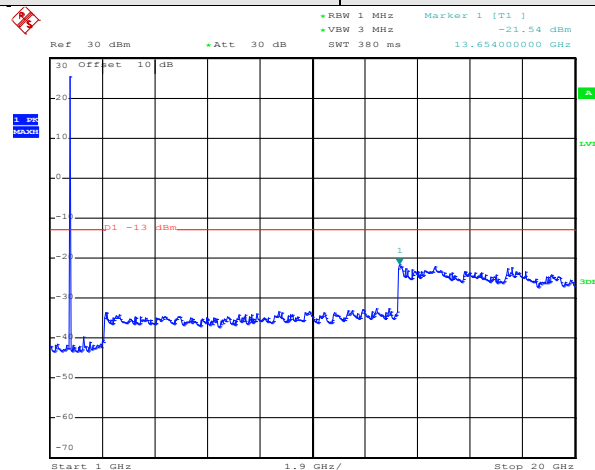
1GHz~25GHz

|            |                                                     |               |                |
|------------|-----------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(1.4 MHz QPSK)<br>RB Size 3 & RB Offset 0 | Test Channel: | Middle channel |
|------------|-----------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:34:01

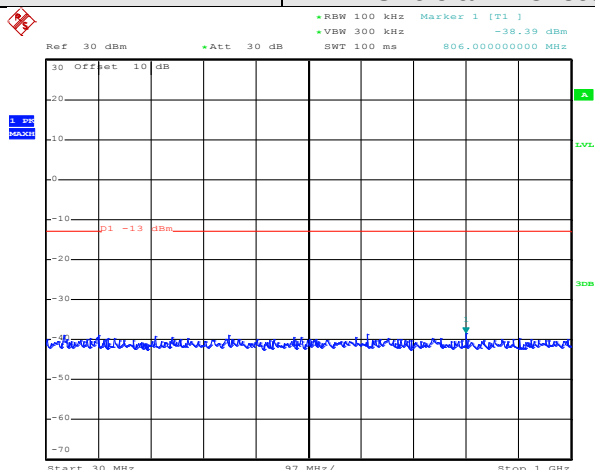
30MHz~1GHz



Date: 19.MAR.2017 19:48:17

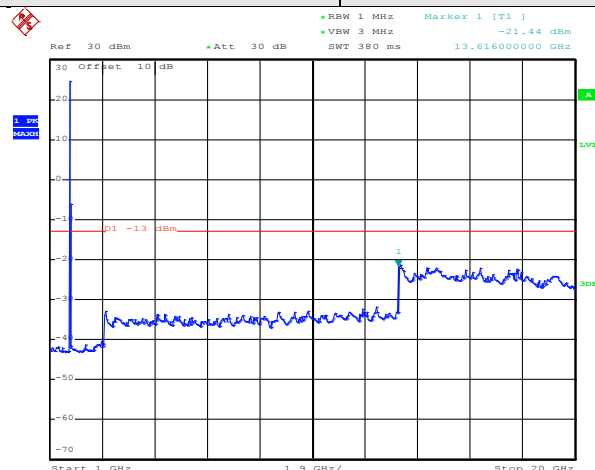
1GHz~25GHz

|            |                                                     |               |                 |
|------------|-----------------------------------------------------|---------------|-----------------|
| Test Mode: | LTE band 4(1.4 MHz QPSK)<br>RB Size 3 & RB Offset 0 | Test Channel: | Highest channel |
|------------|-----------------------------------------------------|---------------|-----------------|



Date: 19.MAR.2017 19:34:33

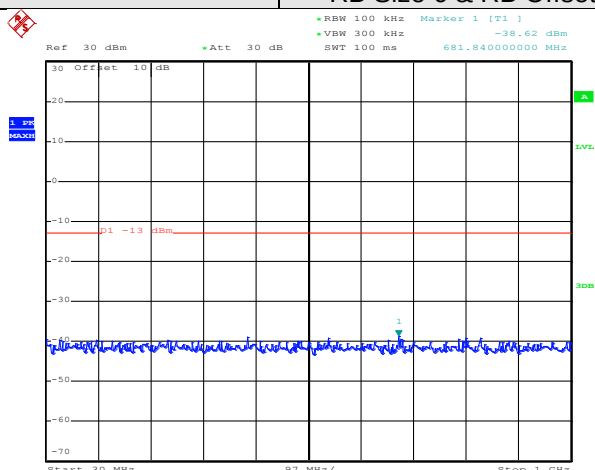
30MHz~1GHz



Date: 19.MAR.2017 19:49:14

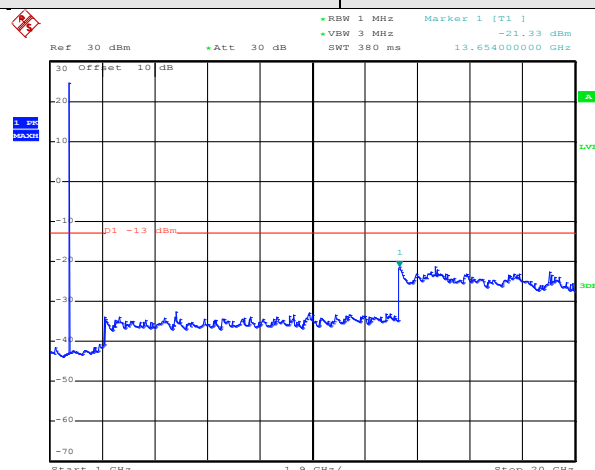
1GHz~25GHz

|            |                                                     |               |                |
|------------|-----------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(1.4 MHz QPSK)<br>RB Size 6 & RB Offset 0 | Test Channel: | Lowest channel |
|------------|-----------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:33:41

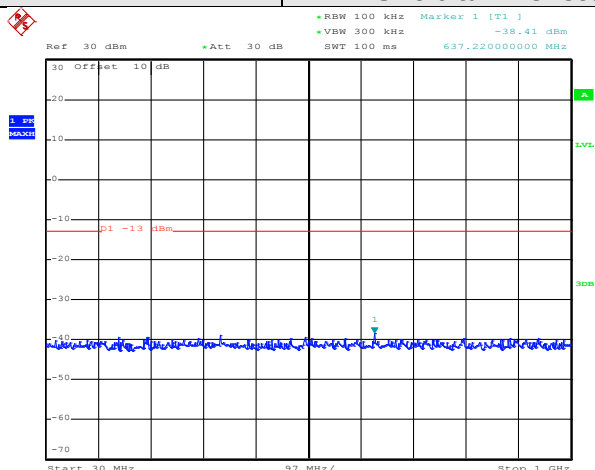
30MHz~1GHz



Date: 19.MAR.2017 19:47:34

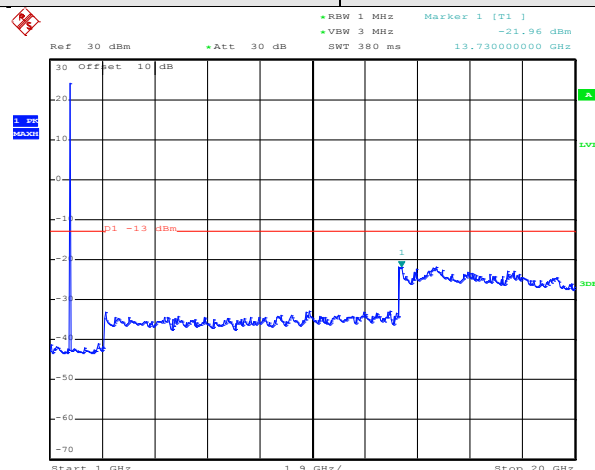
1GHz~25GHz

|            |                                                     |               |                |
|------------|-----------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(1.4 MHz QPSK)<br>RB Size 6 & RB Offset 0 | Test Channel: | Middle channel |
|------------|-----------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:34:11

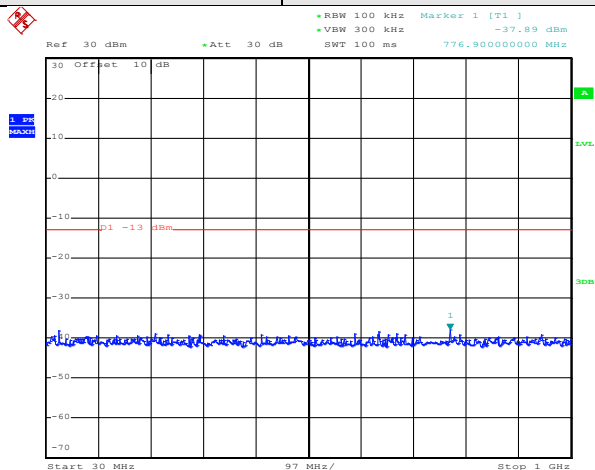
30MHz~1GHz



Date: 19.MAR.2017 19:48:31

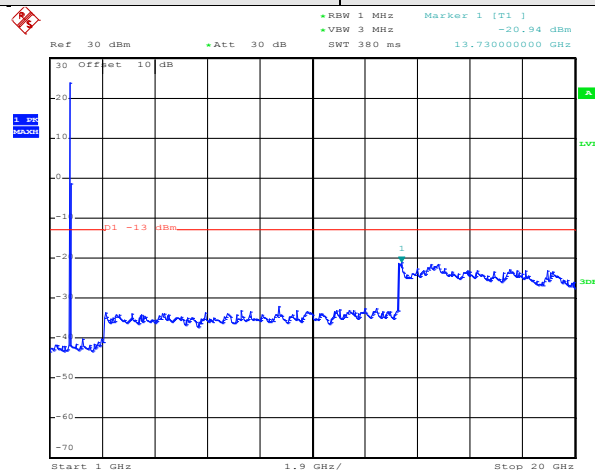
1GHz~25GHz

|            |                                                     |               |                 |
|------------|-----------------------------------------------------|---------------|-----------------|
| Test Mode: | LTE band 4(1.4 MHz QPSK)<br>RB Size 6 & RB Offset 0 | Test Channel: | Highest channel |
|------------|-----------------------------------------------------|---------------|-----------------|



Date: 19.MAR.2017 19:34:48

30MHz~1GHz



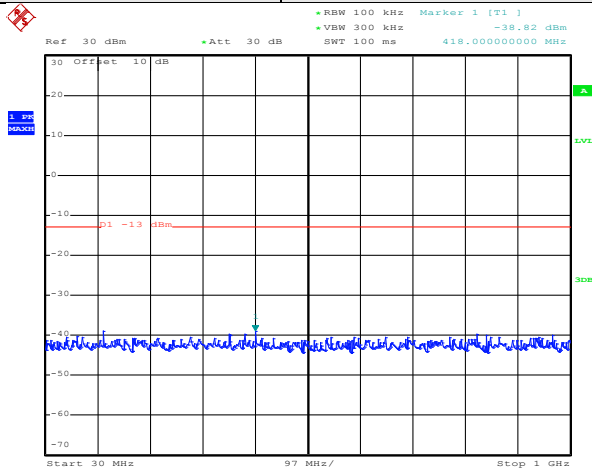
Date: 19.MAR.2017 19:49:37

1GHz~25GHz



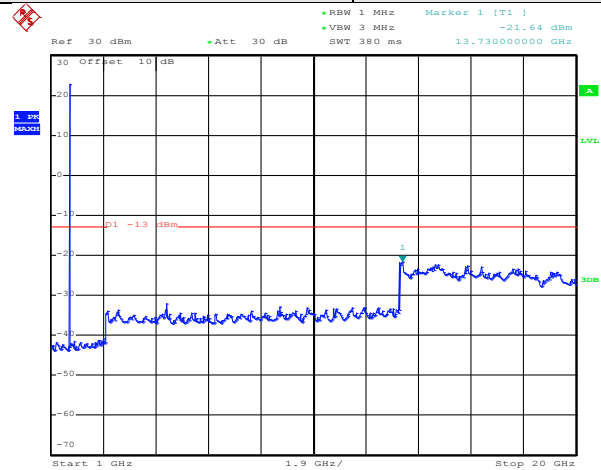
## 3MHz

|            |                                                   |               |                |
|------------|---------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(3MHz 16QAM)<br>RB Size 1 & RB Offset 0 | Test Channel: | Lowest channel |
|------------|---------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:35:04

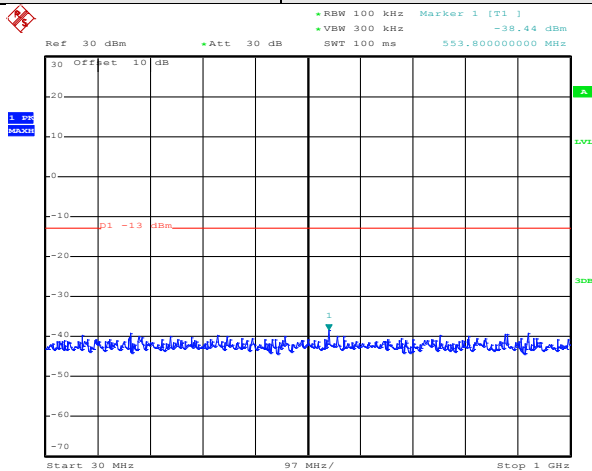
30MHz~1GHz



Date: 19.MAR.2017 19:50:33

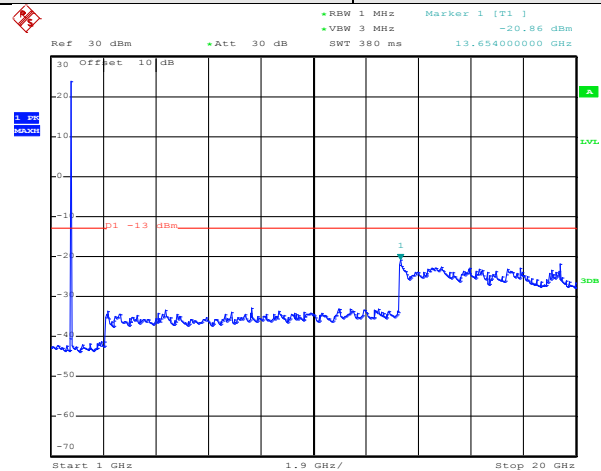
1GHz~25GHz

|            |                                                   |               |                |
|------------|---------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(3MHz 16QAM)<br>RB Size 1 & RB Offset 0 | Test Channel: | Middle channel |
|------------|---------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:35:34

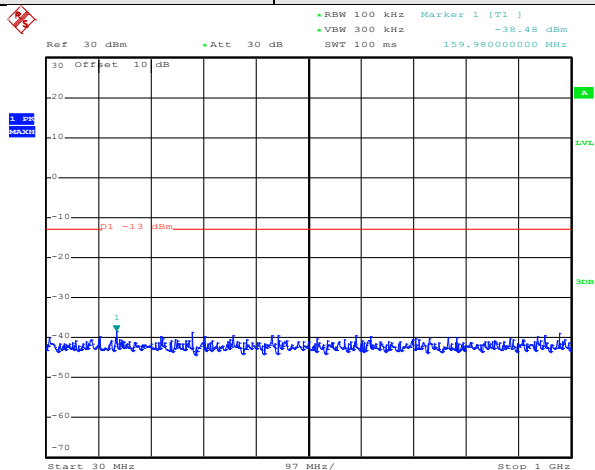
30MHz~1GHz



Date: 19.MAR.2017 19:51:48

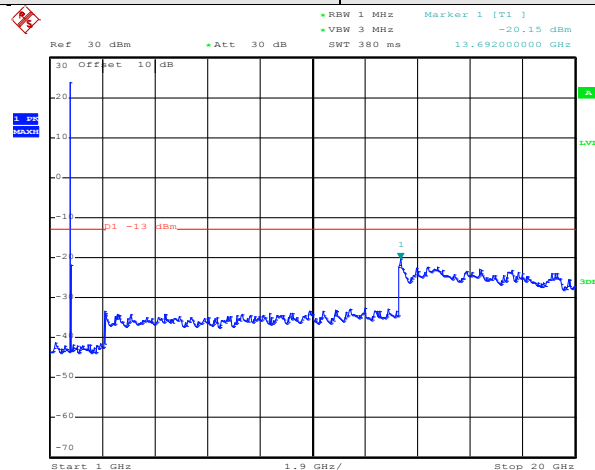
1GHz~25GHz

|            |                                                   |               |                 |
|------------|---------------------------------------------------|---------------|-----------------|
| Test Mode: | LTE band 4(3MHz 16QAM)<br>RB Size 1 & RB Offset 0 | Test Channel: | Highest channel |
|------------|---------------------------------------------------|---------------|-----------------|



Date: 19.MAR.2017 19:36:07

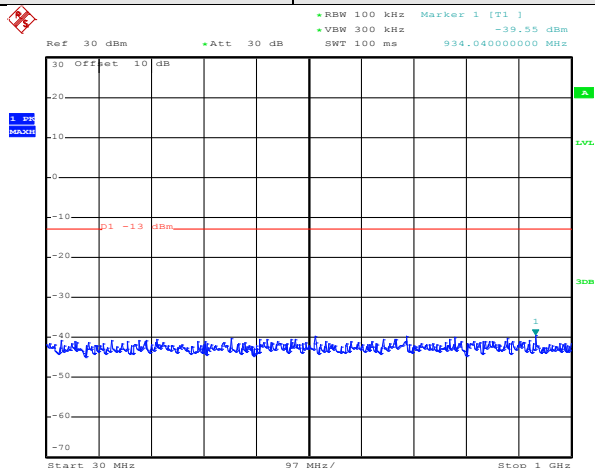
30MHz~1GHz



Date: 19.MAR.2017 19:52:52

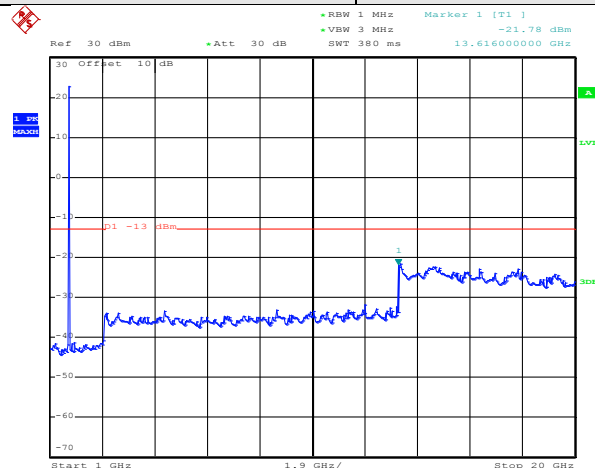
1GHz~25GHz

|            |                                                   |               |                |
|------------|---------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(3MHz 16QAM)<br>RB Size 8 & RB Offset 0 | Test Channel: | Lowest channel |
|------------|---------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:35:12

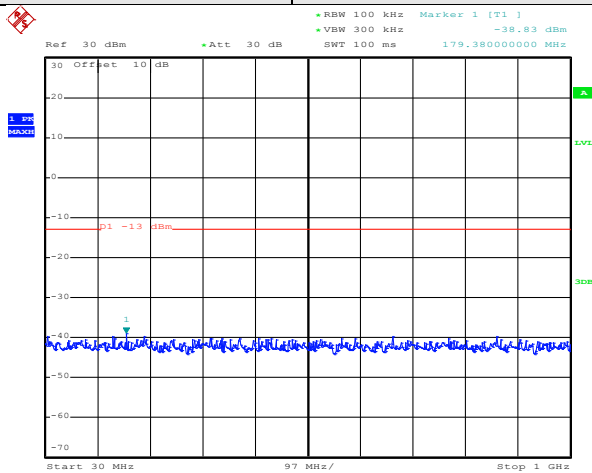
30MHz~1GHz



Date: 19.MAR.2017 19:50:53

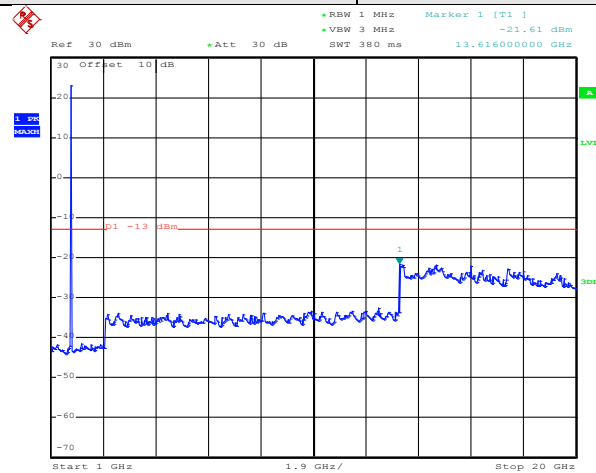
1GHz~25GHz

|            |                                                   |               |                |
|------------|---------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(3MHz 16QAM)<br>RB Size 8 & RB Offset 0 | Test Channel: | Middle channel |
|------------|---------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:35:44

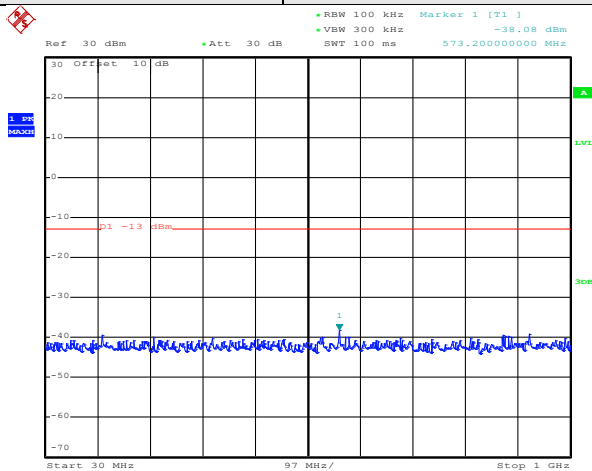
30MHz~1GHz



Date: 19.MAR.2017 19:52:10

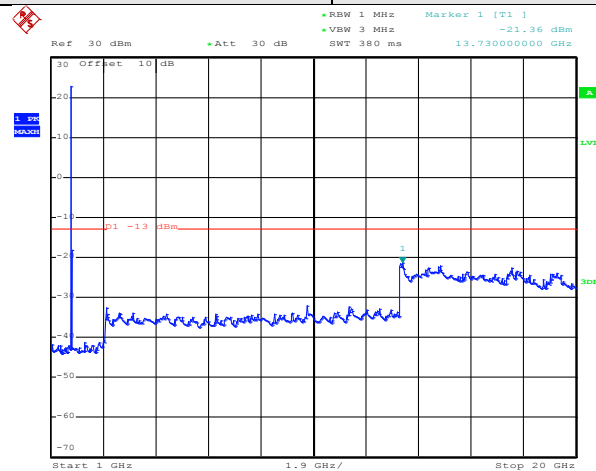
1GHz~25GHz

|            |                                                   |               |                 |
|------------|---------------------------------------------------|---------------|-----------------|
| Test Mode: | LTE band 4(3MHz 16QAM)<br>RB Size 8 & RB Offset 0 | Test Channel: | Highest channel |
|------------|---------------------------------------------------|---------------|-----------------|



Date: 19.MAR.2017 19:36:18

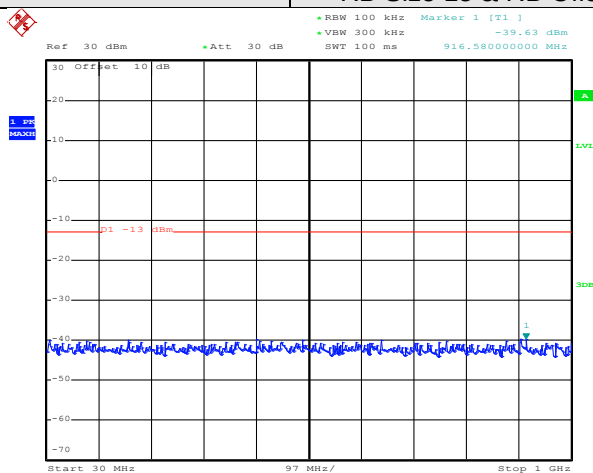
30MHz~1GHz



Date: 19.MAR.2017 19:53:11

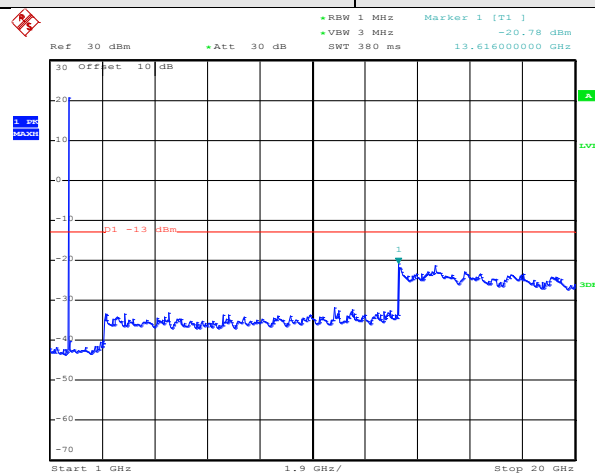
1GHz~25GHz

|            |                                                    |               |                |
|------------|----------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(3MHz 16QAM)<br>RB Size 15 & RB Offset 0 | Test Channel: | Lowest channel |
|------------|----------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:35:22

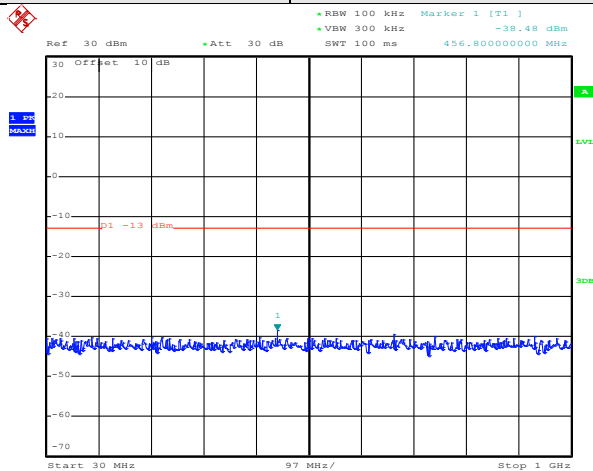
30MHz~1GHz



Date: 19.MAR.2017 19:51:11

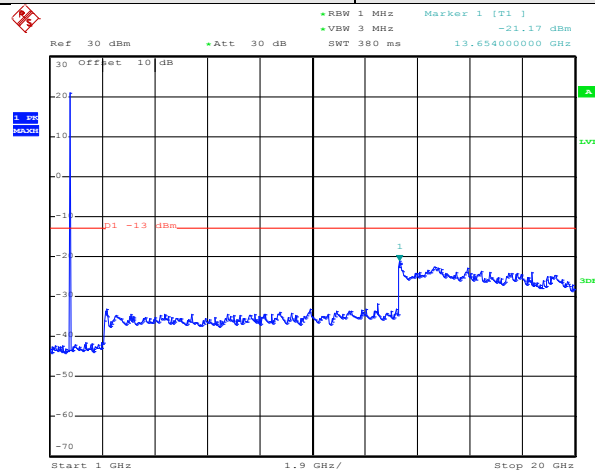
1GHz~25GHz

|            |                                                    |               |                |
|------------|----------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(3MHz 16QAM)<br>RB Size 15 & RB Offset 0 | Test Channel: | Middle channel |
|------------|----------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:35:54

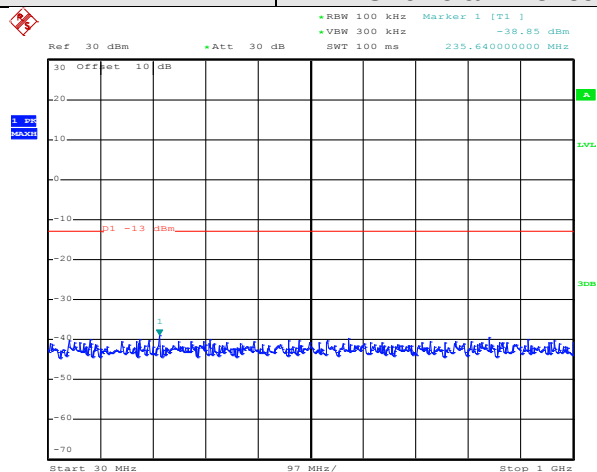
30MHz~1GHz



Date: 19.MAR.2017 19:52:27

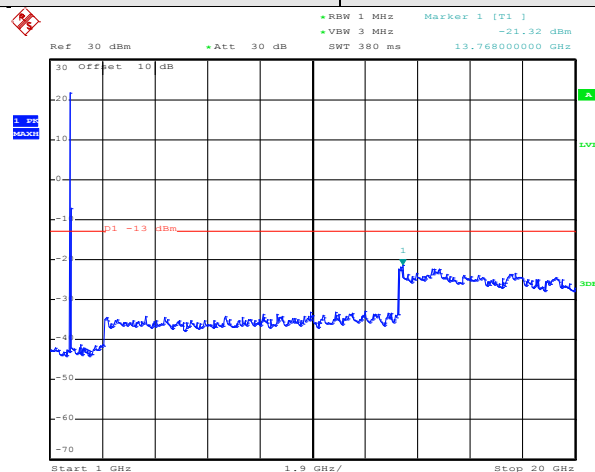
1GHz~25GHz

|            |                                                    |               |                 |
|------------|----------------------------------------------------|---------------|-----------------|
| Test Mode: | LTE band 4(3MHz 16QAM)<br>RB Size 15 & RB Offset 0 | Test Channel: | Highest channel |
|------------|----------------------------------------------------|---------------|-----------------|



Date: 19.MAR.2017 19:36:27

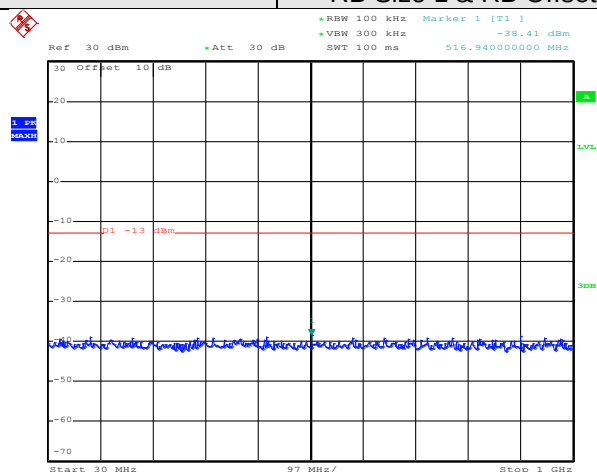
30MHz~1GHz



Date: 19.MAR.2017 19:53:29

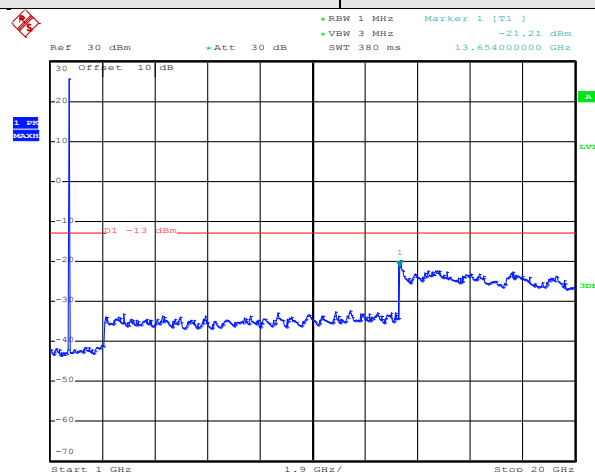
1GHz~25GHz

|            |                                                  |               |                |
|------------|--------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(3MHz QPSK)<br>RB Size 1 & RB Offset 0 | Test Channel: | Lowest channel |
|------------|--------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:35:01

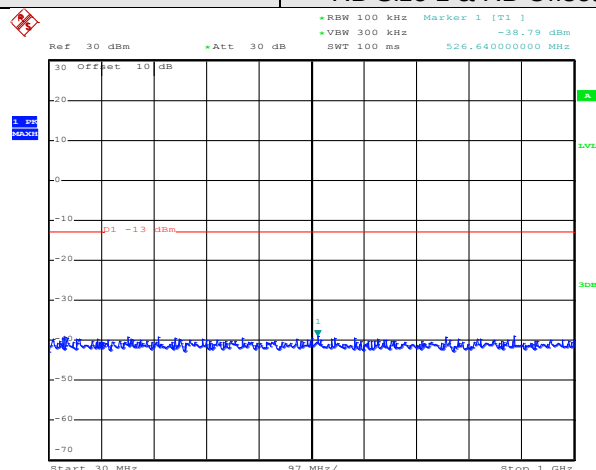
30MHz~1GHz



Date: 19.MAR.2017 19:50:23

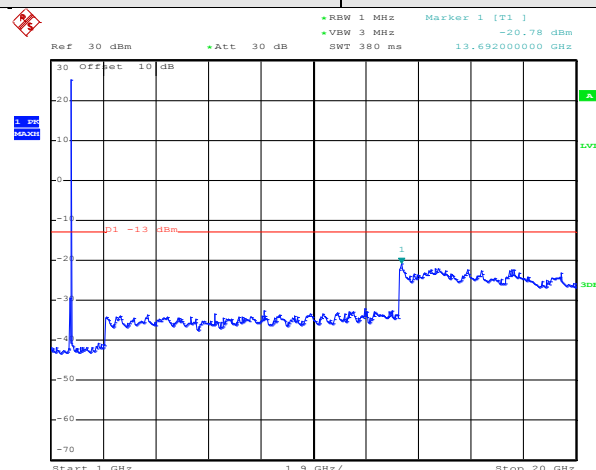
1GHz~25GHz

|            |                                                  |               |                |
|------------|--------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(3MHz QPSK)<br>RB Size 1 & RB Offset 0 | Test Channel: | Middle channel |
|------------|--------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:35:30

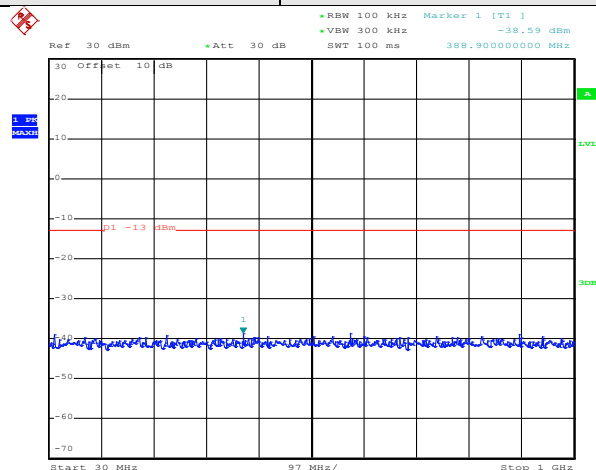
30MHz~1GHz



Date: 19.MAR.2017 19:51:34

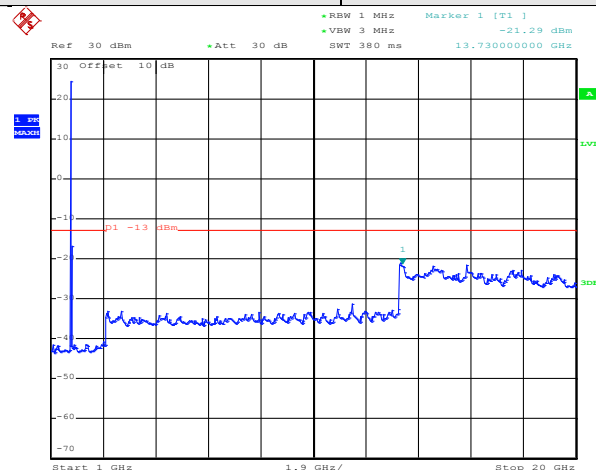
1GHz~25GHz

|            |                                                  |               |                 |
|------------|--------------------------------------------------|---------------|-----------------|
| Test Mode: | LTE band 4(3MHz QPSK)<br>RB Size 1 & RB Offset 0 | Test Channel: | Highest channel |
|------------|--------------------------------------------------|---------------|-----------------|



Date: 19.MAR.2017 19:36:03

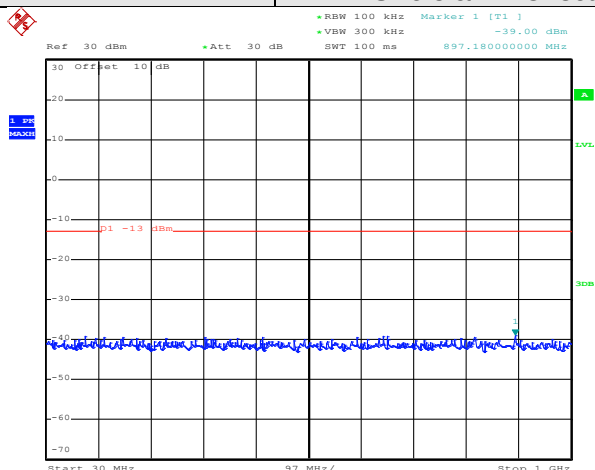
30MHz~1GHz



Date: 19.MAR.2017 19:52:43

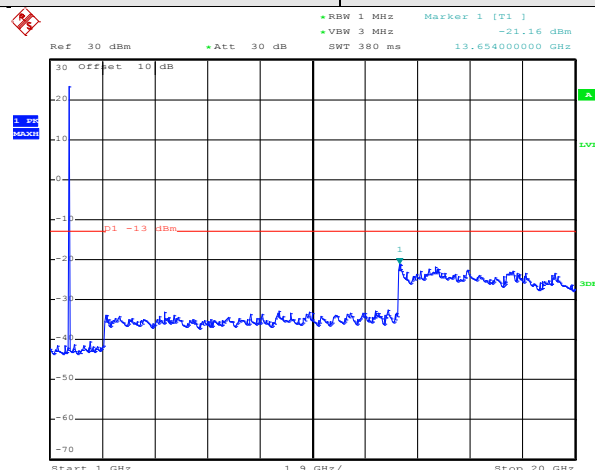
1GHz~25GHz

|            |                                                  |               |                |
|------------|--------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(3MHz QPSK)<br>RB Size 8 & RB Offset 0 | Test Channel: | Lowest channel |
|------------|--------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:35:09

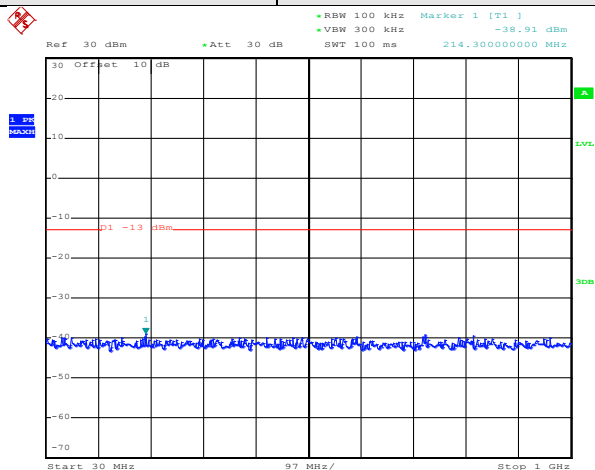
30MHz~1GHz



Date: 19.MAR.2017 19:50:45

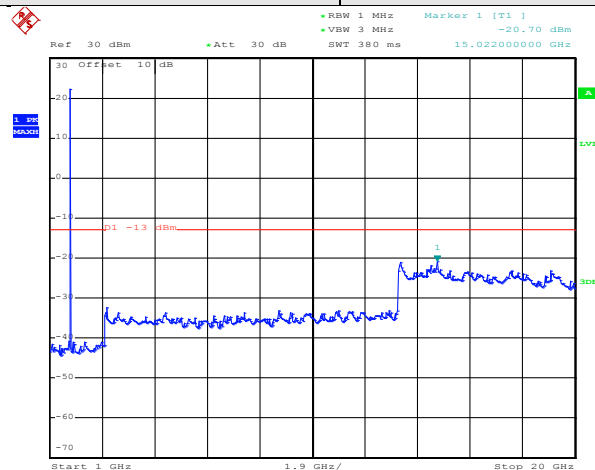
1GHz~25GHz

|            |                                                  |               |                |
|------------|--------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(3MHz QPSK)<br>RB Size 8 & RB Offset 0 | Test Channel: | Middle channel |
|------------|--------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:35:40

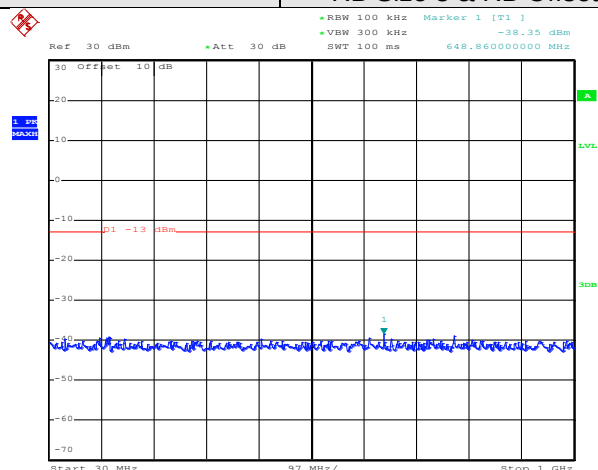
30MHz~1GHz



Date: 19.MAR.2017 19:52:00

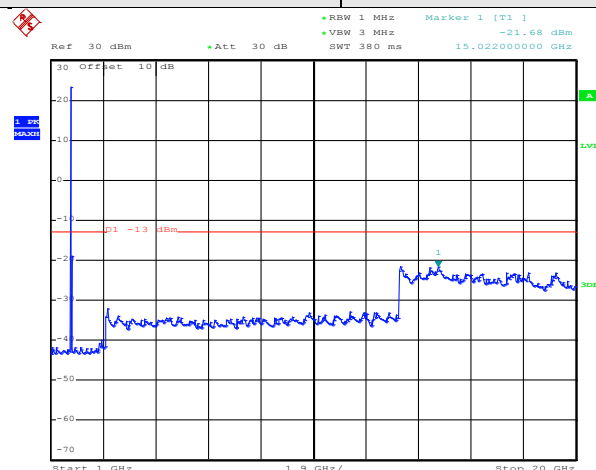
1GHz~25GHz

|            |                                                  |               |                 |
|------------|--------------------------------------------------|---------------|-----------------|
| Test Mode: | LTE band 4(3MHz QPSK)<br>RB Size 8 & RB Offset 0 | Test Channel: | Highest channel |
|------------|--------------------------------------------------|---------------|-----------------|



Date: 19.MAR.2017 19:36:13

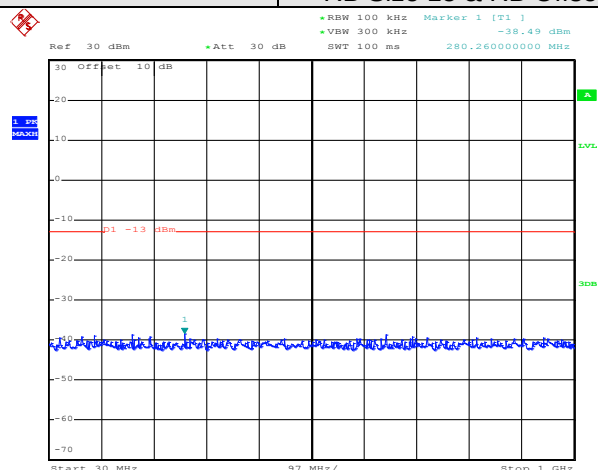
30MHz~1GHz



Date: 19.MAR.2017 19:53:03

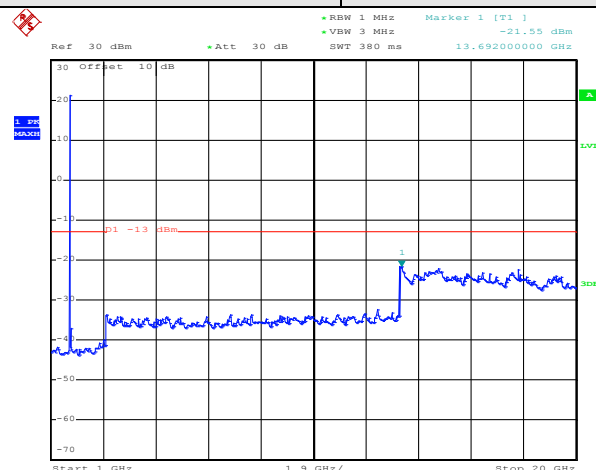
1GHz~25GHz

|            |                                                   |               |                |
|------------|---------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(3MHz QPSK)<br>RB Size 15 & RB Offset 0 | Test Channel: | Lowest channel |
|------------|---------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:35:19

30MHz~1GHz

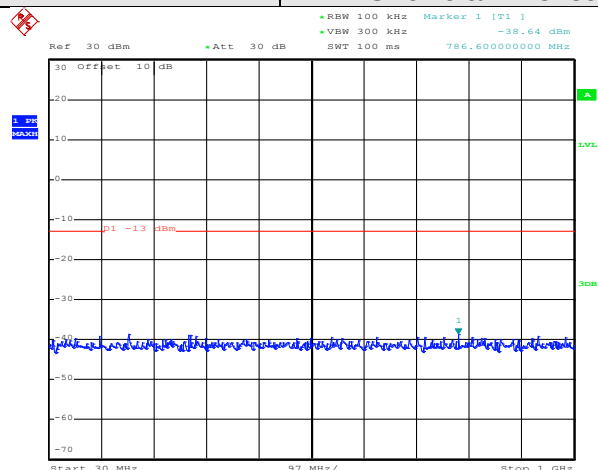


Date: 19.MAR.2017 19:51:01

1GHz~25GHz

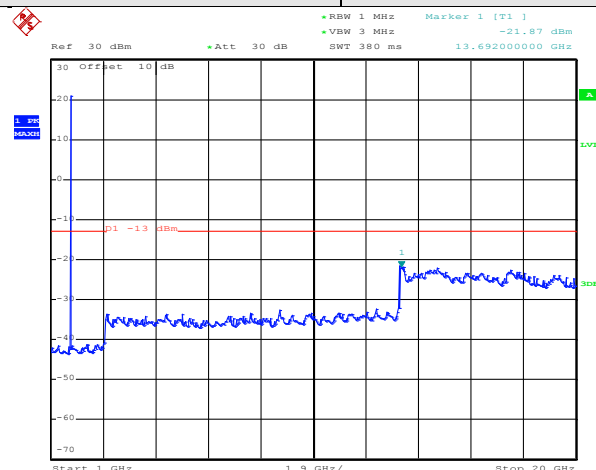


|            |                                                   |               |                |
|------------|---------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(3MHz QPSK)<br>RB Size 15 & RB Offset 0 | Test Channel: | Middle channel |
|------------|---------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:35:50

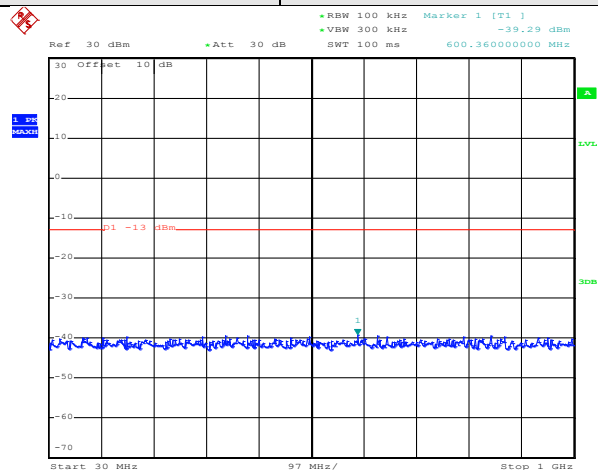
30MHz~1GHz



Date: 19.MAR.2017 19:52:21

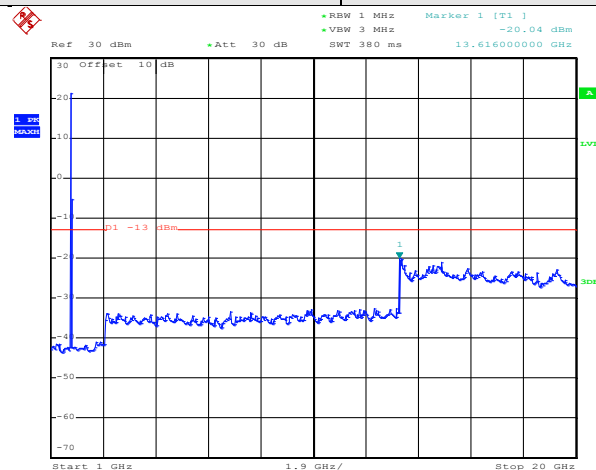
1GHz~25GHz

|            |                                                   |               |                 |
|------------|---------------------------------------------------|---------------|-----------------|
| Test Mode: | LTE band 4(3MHz QPSK)<br>RB Size 15 & RB Offset 0 | Test Channel: | Highest channel |
|------------|---------------------------------------------------|---------------|-----------------|



Date: 19.MAR.2017 19:36:24

30MHz~1GHz

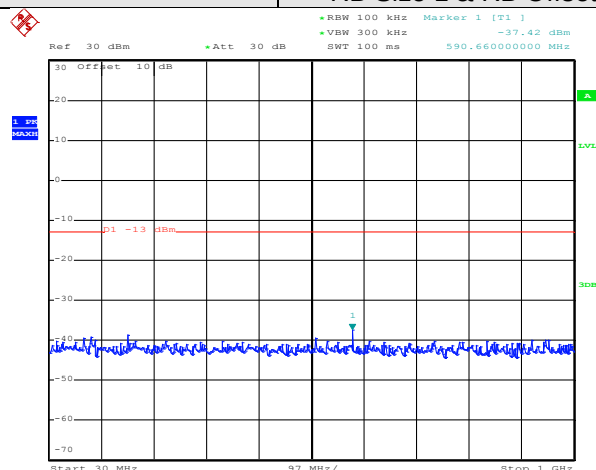


Date: 19.MAR.2017 19:53:22

1GHz~25GHz

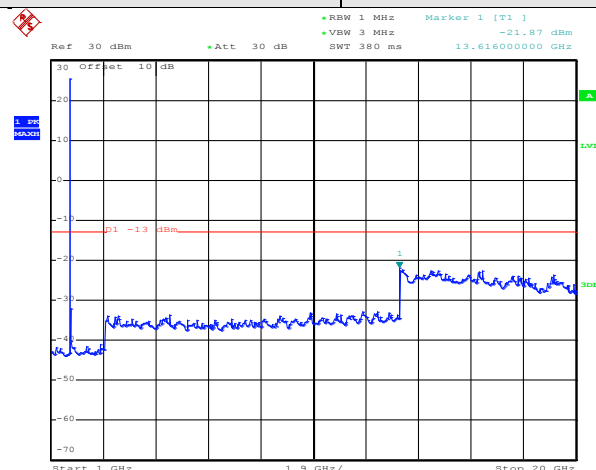
## 5MHz

| Test Mode: | LTE band 4(5MHz 16QAM)<br>RB Size 1 & RB Offset 0 | Test Channel: | Lowest channel |
|------------|---------------------------------------------------|---------------|----------------|
|------------|---------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:36:41

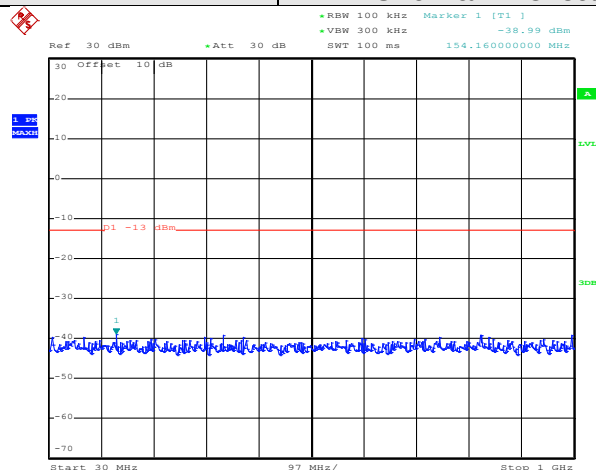
30MHz~1GHz



Date: 19.MAR.2017 19:54:12

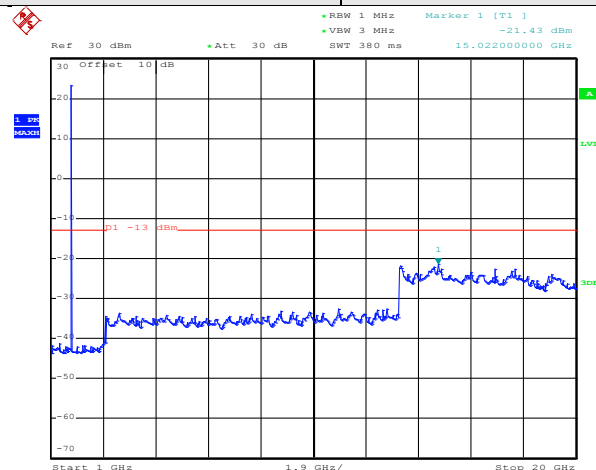
1GHz~25GHz

| Test Mode: | LTE band 4(5MHz 16QAM)<br>RB Size 1 & RB Offset 0 | Test Channel: | Middle channel |
|------------|---------------------------------------------------|---------------|----------------|
|------------|---------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:37:16

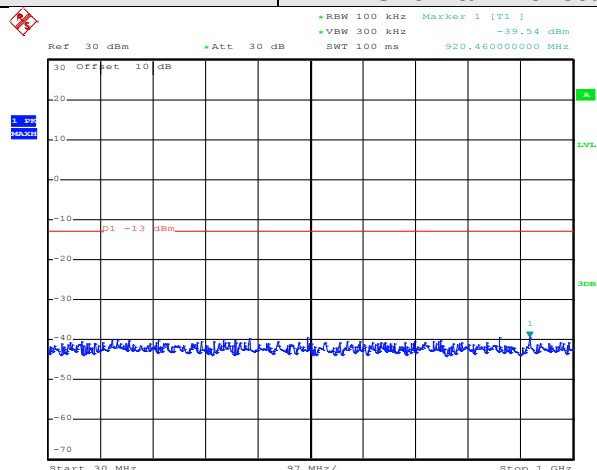
30MHz~1GHz



Date: 19.MAR.2017 19:55:20

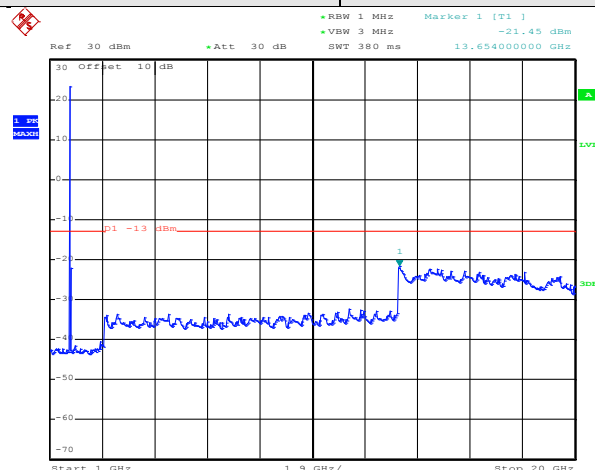
1GHz~25GHz

|            |                                                   |               |                 |
|------------|---------------------------------------------------|---------------|-----------------|
| Test Mode: | LTE band 4(5MHz 16QAM)<br>RB Size 1 & RB Offset 0 | Test Channel: | Highest channel |
|------------|---------------------------------------------------|---------------|-----------------|



Date: 19.MAR.2017 19:37:51

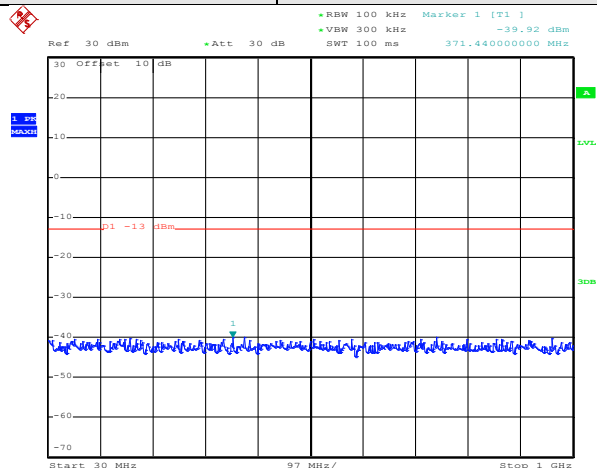
30MHz~1GHz



Date: 19.MAR.2017 19:56:31

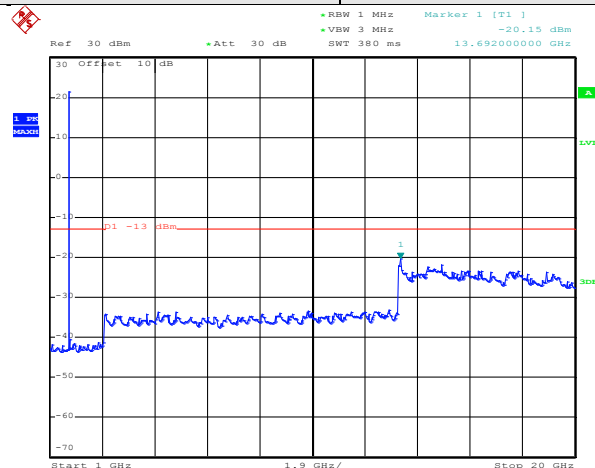
1GHz~25GHz

|            |                                                    |               |                |
|------------|----------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(5MHz 16QAM)<br>RB Size 12 & RB Offset 0 | Test Channel: | Lowest channel |
|------------|----------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:36:53

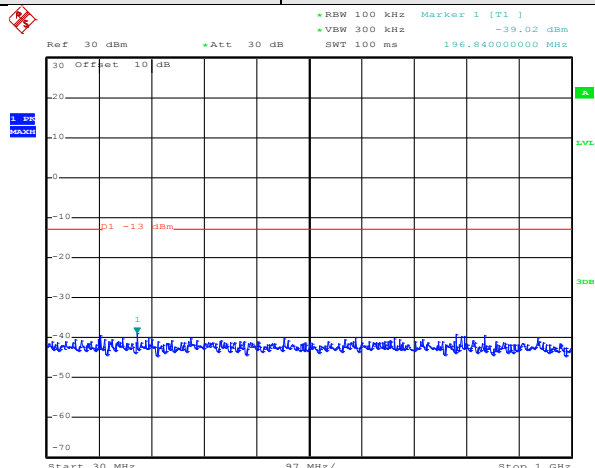
30MHz~1GHz



Date: 19.MAR.2017 19:54:34

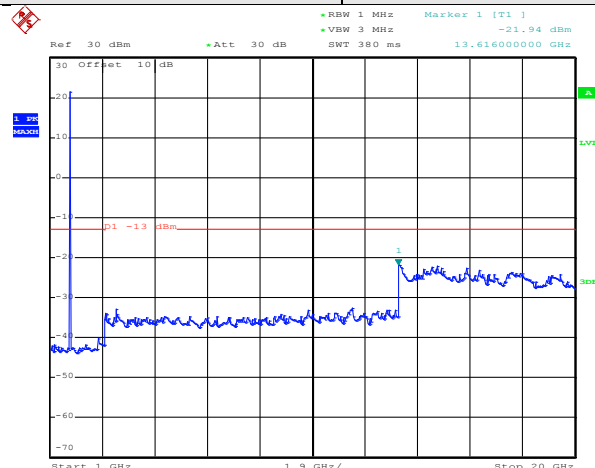
1GHz~25GHz

|            |                                                    |               |                |
|------------|----------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(5MHz 16QAM)<br>RB Size 12 & RB Offset 0 | Test Channel: | Middle channel |
|------------|----------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:37:26

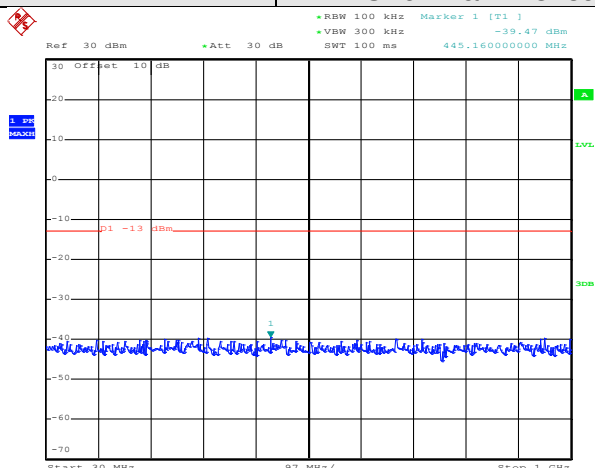
30MHz~1GHz



Date: 19.MAR.2017 19:55:42

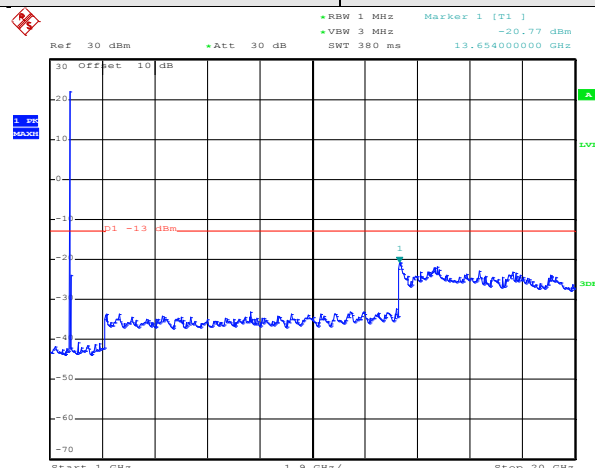
1GHz~25GHz

|            |                                                    |               |                 |
|------------|----------------------------------------------------|---------------|-----------------|
| Test Mode: | LTE band 4(5MHz 16QAM)<br>RB Size 12 & RB Offset 0 | Test Channel: | Highest channel |
|------------|----------------------------------------------------|---------------|-----------------|



Date: 19.MAR.2017 19:38:01

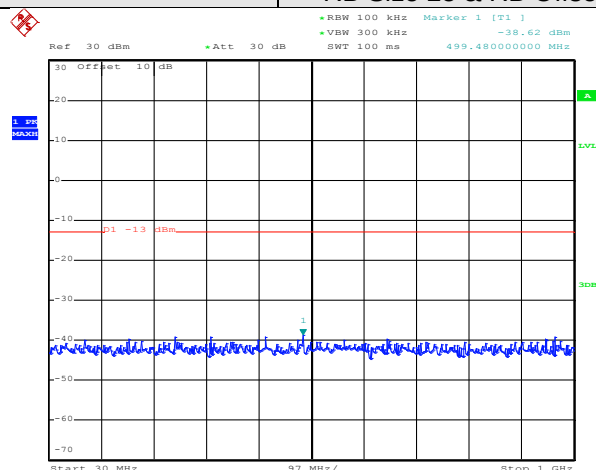
30MHz~1GHz



Date: 19.MAR.2017 19:56:53

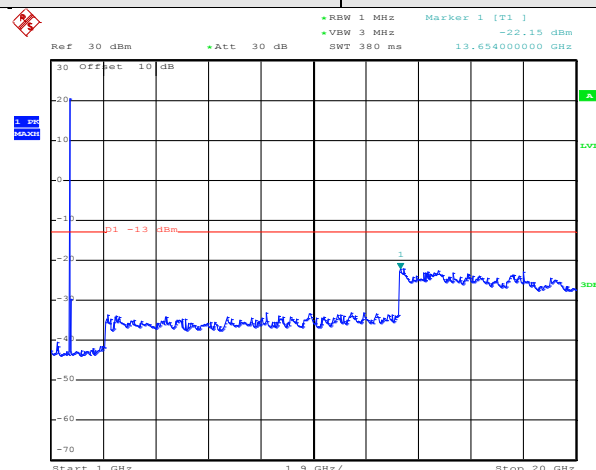
1GHz~25GHz

|            |                                                    |               |                |
|------------|----------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(5MHz 16QAM)<br>RB Size 25 & RB Offset 0 | Test Channel: | Lowest channel |
|------------|----------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:37:03

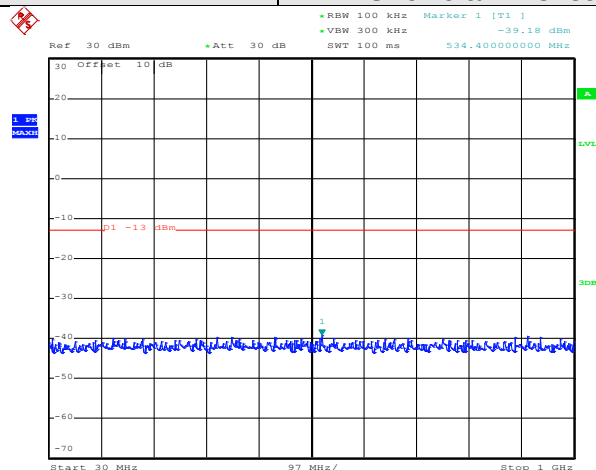
30MHz~1GHz



Date: 19.MAR.2017 19:54:53

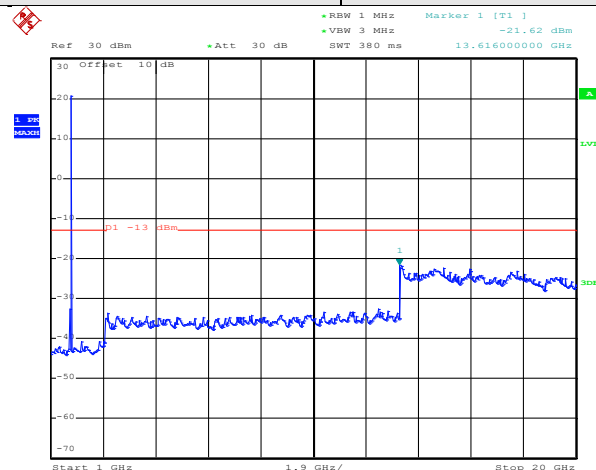
1GHz~25GHz

|            |                                                    |               |                |
|------------|----------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(5MHz 16QAM)<br>RB Size 25 & RB Offset 0 | Test Channel: | Middle channel |
|------------|----------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:37:37

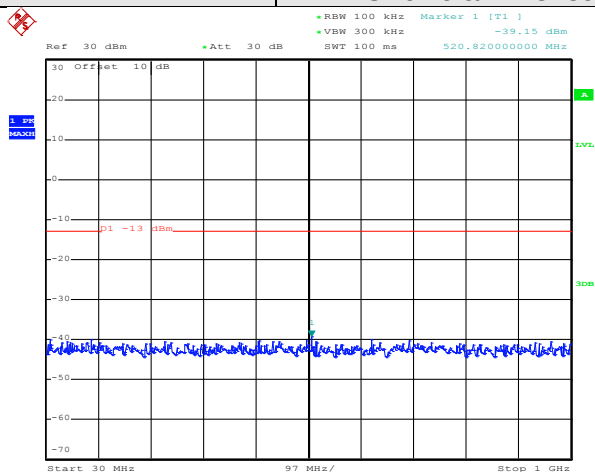
30MHz~1GHz



Date: 19.MAR.2017 19:55:58

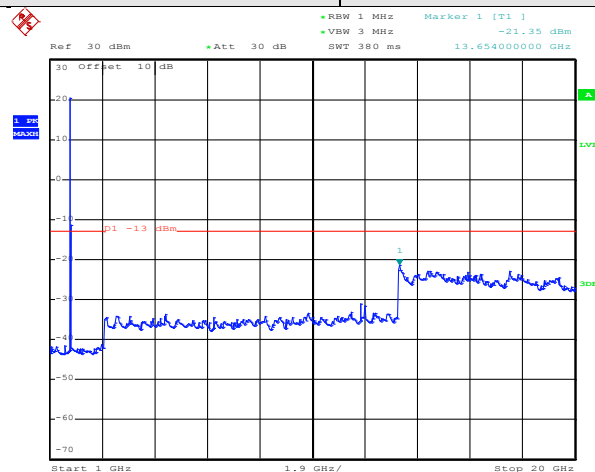
1GHz~25GHz

|            |                                                    |               |                 |
|------------|----------------------------------------------------|---------------|-----------------|
| Test Mode: | LTE band 4(5MHz 16QAM)<br>RB Size 25 & RB Offset 0 | Test Channel: | Highest channel |
|------------|----------------------------------------------------|---------------|-----------------|



Date: 19.MAR.2017 19:38:13

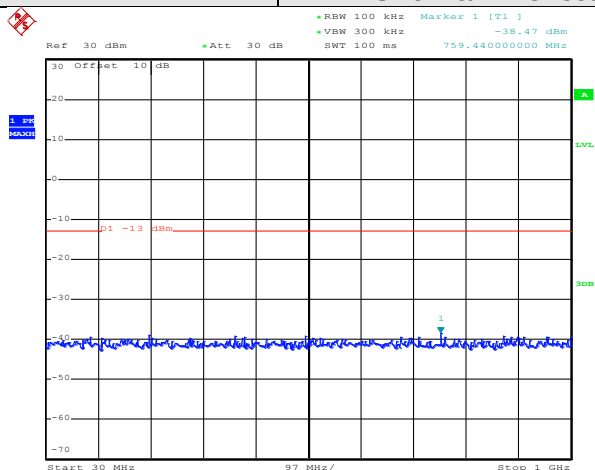
30MHz~1GHz



Date: 19.MAR.2017 19:57:11

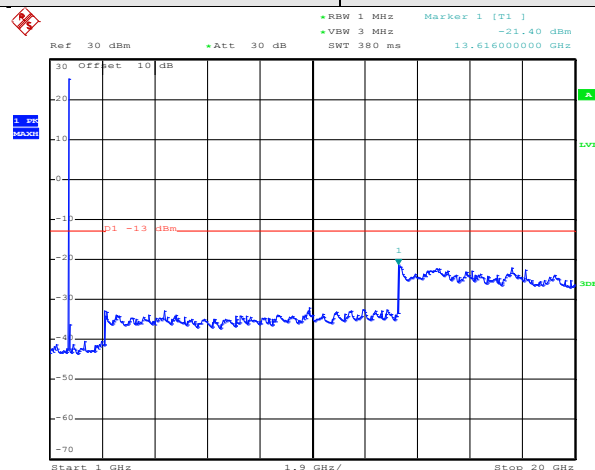
1GHz~25GHz

|            |                                                  |               |                |
|------------|--------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(5MHz QPSK)<br>RB Size 1 & RB Offset 0 | Test Channel: | Lowest channel |
|------------|--------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:36:37

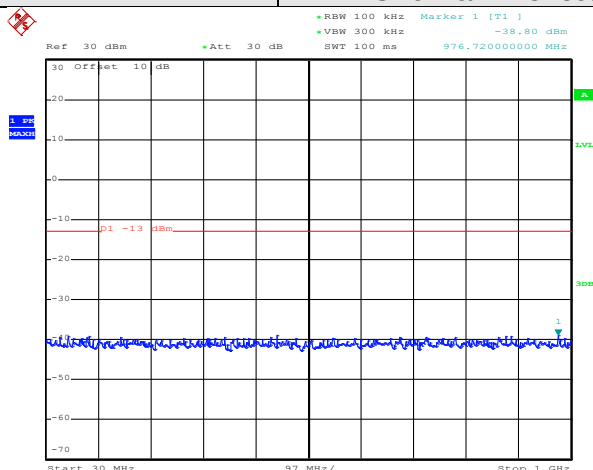
30MHz~1GHz



Date: 19.MAR.2017 19:54:06

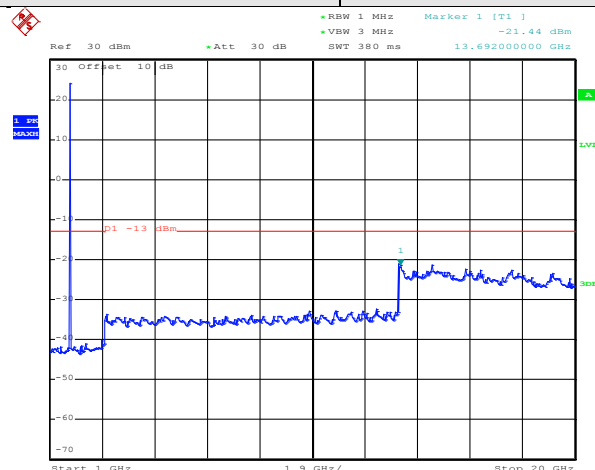
1GHz~25GHz

|            |                                                  |               |                |
|------------|--------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(5MHz QPSK)<br>RB Size 1 & RB Offset 0 | Test Channel: | Middle channel |
|------------|--------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:37:12

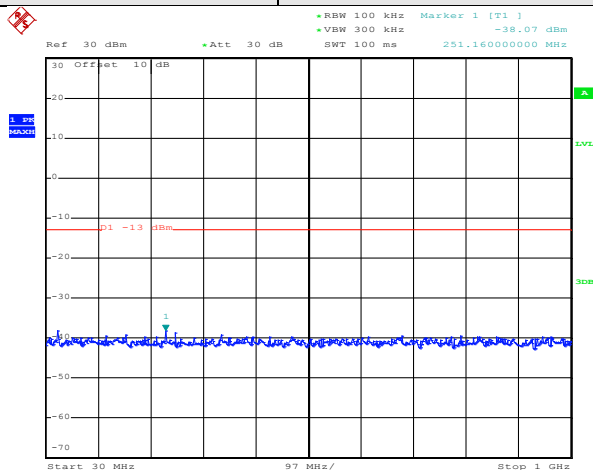
30MHz~1GHz



Date: 19.MAR.2017 19:55:11

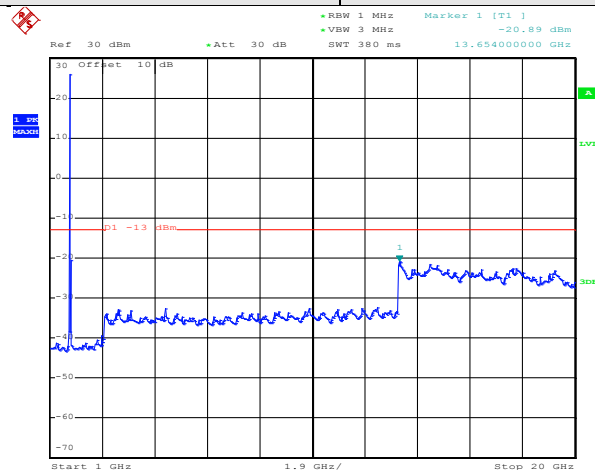
1GHz~25GHz

|            |                                                  |               |                 |
|------------|--------------------------------------------------|---------------|-----------------|
| Test Mode: | LTE band 4(5MHz QPSK)<br>RB Size 1 & RB Offset 0 | Test Channel: | Highest channel |
|------------|--------------------------------------------------|---------------|-----------------|



Date: 19.MAR.2017 19:37:47

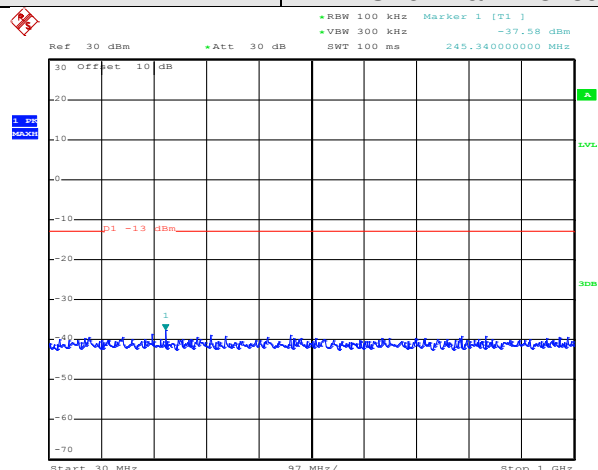
30MHz~1GHz



Date: 19.MAR.2017 19:56:22

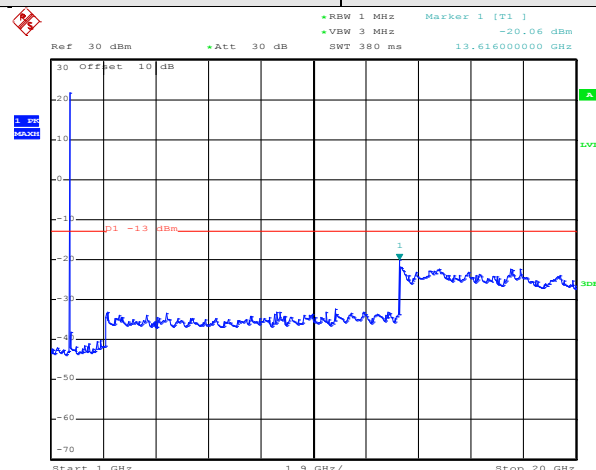
1GHz~25GHz

|            |                                                   |               |                |
|------------|---------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(5MHz QPSK)<br>RB Size 12 & RB Offset 0 | Test Channel: | Lowest channel |
|------------|---------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:36:49

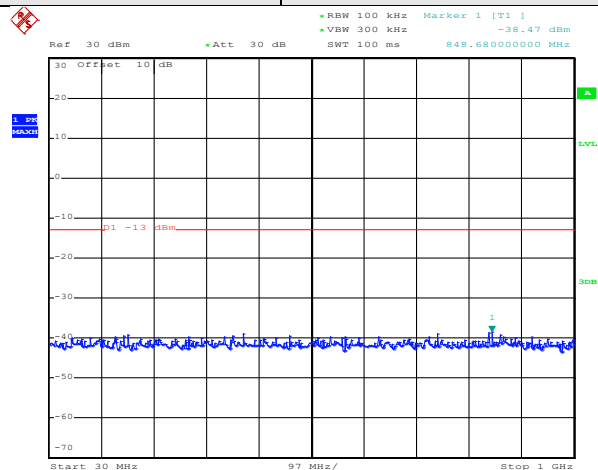
30MHz~1GHz



Date: 19.MAR.2017 19:54:25

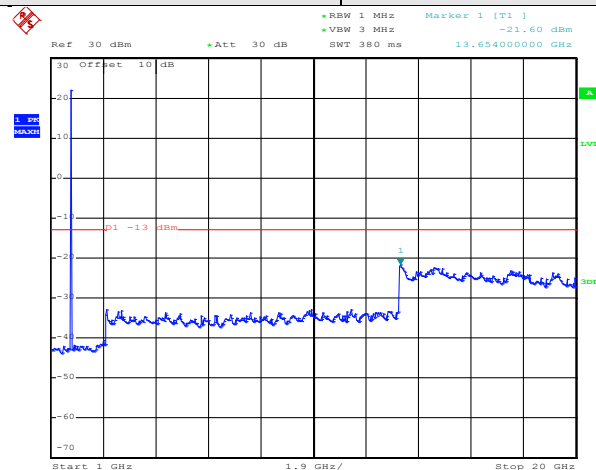
1GHz~25GHz

|            |                                                   |               |                |
|------------|---------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(5MHz QPSK)<br>RB Size 12 & RB Offset 0 | Test Channel: | Middle channel |
|------------|---------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:37:22

30MHz~1GHz

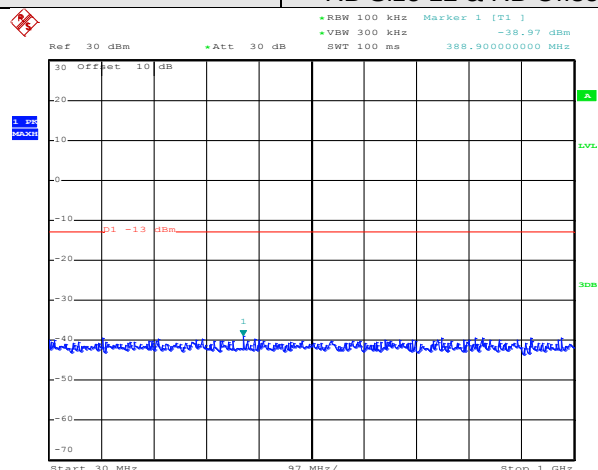


Date: 19.MAR.2017 19:55:33

1GHz~25GHz

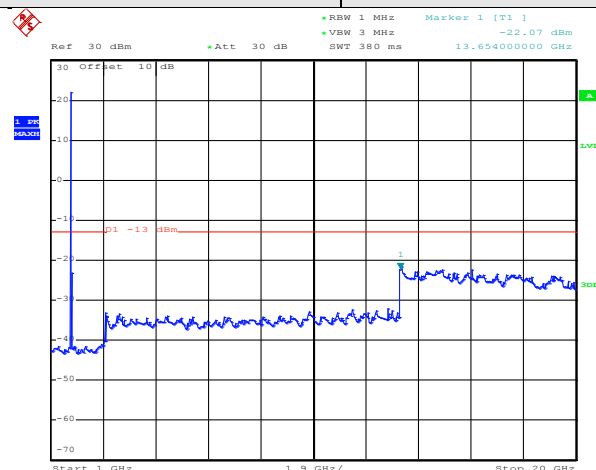


|            |                                                   |               |                 |
|------------|---------------------------------------------------|---------------|-----------------|
| Test Mode: | LTE band 4(5MHz QPSK)<br>RB Size 12 & RB Offset 0 | Test Channel: | Highest channel |
|------------|---------------------------------------------------|---------------|-----------------|



Date: 19.MAR.2017 19:37:57

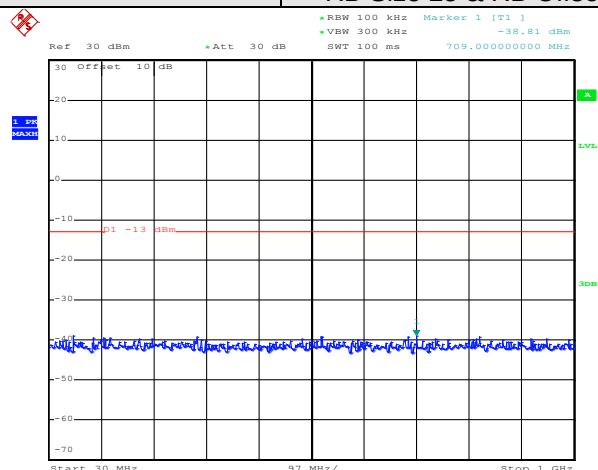
30MHz~1GHz



Date: 19.MAR.2017 19:56:45

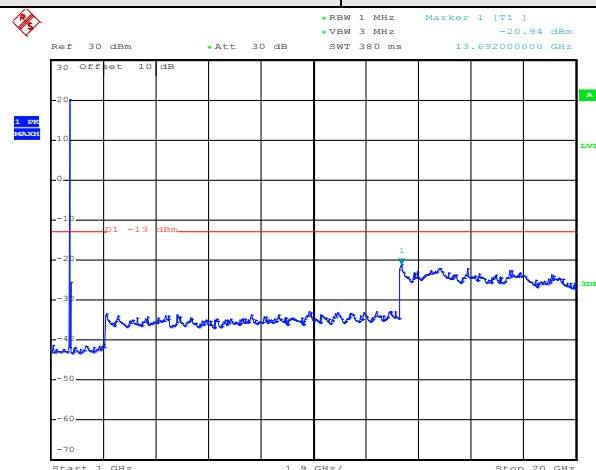
1GHz~25GHz

|            |                                                   |               |                |
|------------|---------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(5MHz QPSK)<br>RB Size 25 & RB Offset 0 | Test Channel: | Lowest channel |
|------------|---------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:36:59

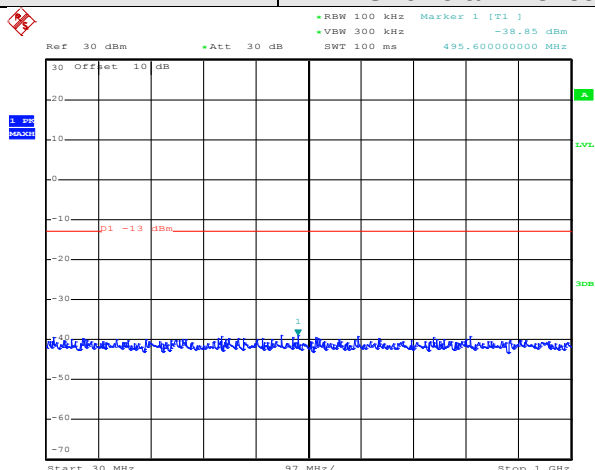
30MHz~1GHz



Date: 19.MAR.2017 19:54:47

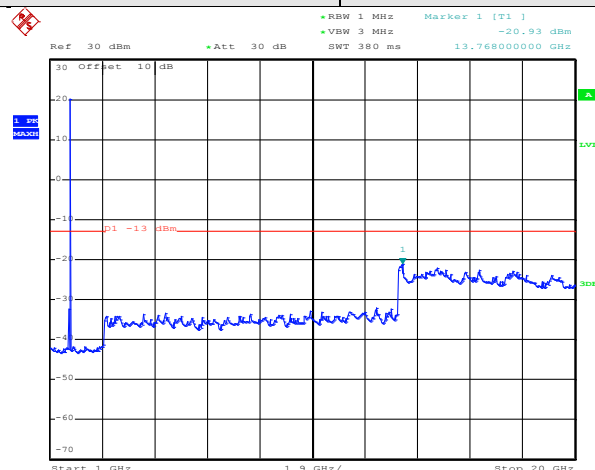
1GHz~25GHz

|            |                                                   |               |                |
|------------|---------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(5MHz QPSK)<br>RB Size 25 & RB Offset 0 | Test Channel: | Middle channel |
|------------|---------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:37:32

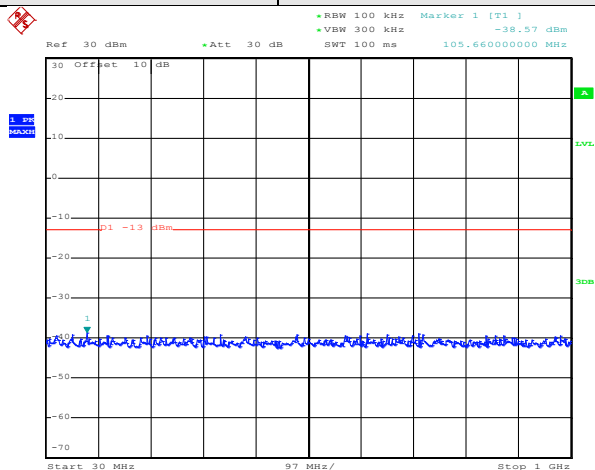
30MHz~1GHz



Date: 19.MAR.2017 19:55:52

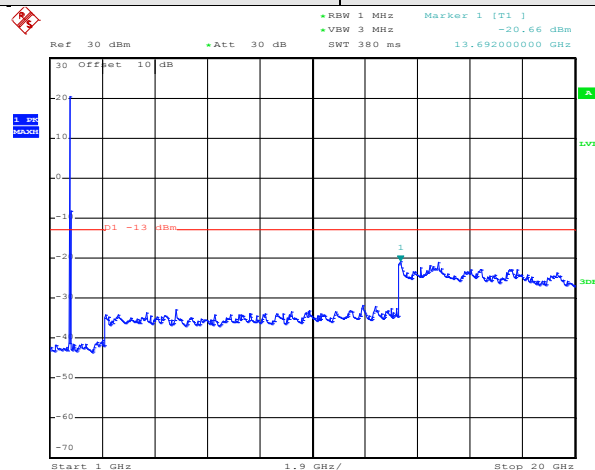
1GHz~25GHz

|            |                                                   |               |                 |
|------------|---------------------------------------------------|---------------|-----------------|
| Test Mode: | LTE band 4(5MHz QPSK)<br>RB Size 25 & RB Offset 0 | Test Channel: | Highest channel |
|------------|---------------------------------------------------|---------------|-----------------|



Date: 19.MAR.2017 19:38:10

30MHz~1GHz

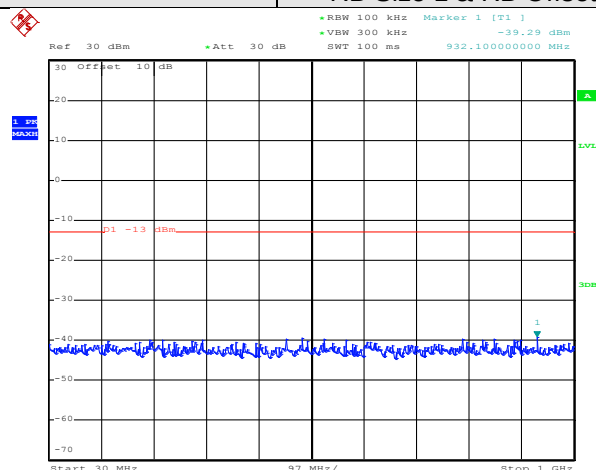


Date: 19.MAR.2017 19:57:06

1GHz~25GHz

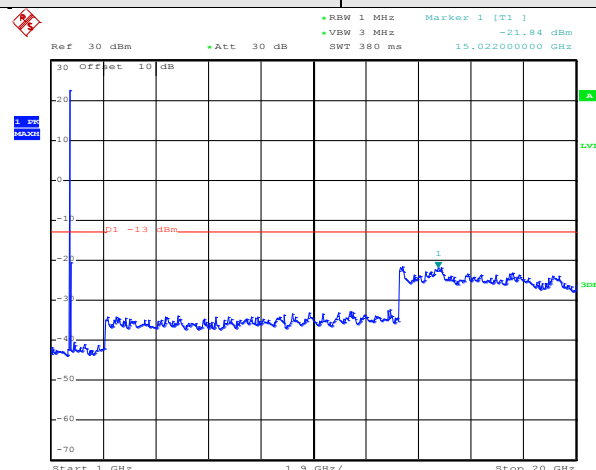
## 10MHz

|            |                                                    |               |                |
|------------|----------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(10MHz 16QAM)<br>RB Size 1 & RB Offset 0 | Test Channel: | Lowest channel |
|------------|----------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:38:27

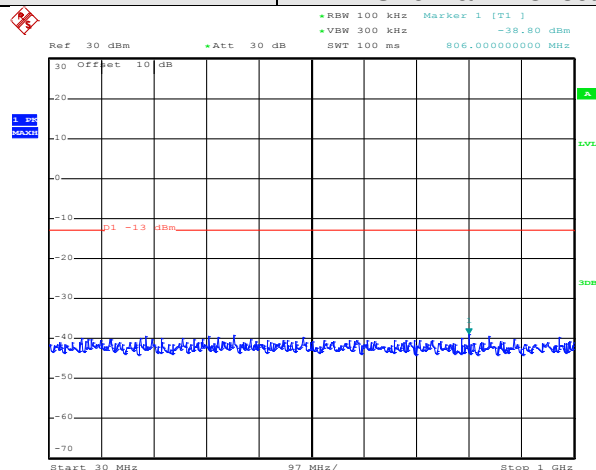
30MHz~1GHz



Date: 19.MAR.2017 19:58:04

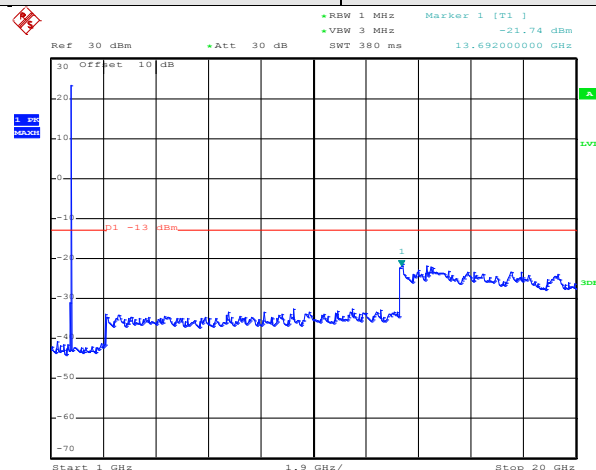
1GHz~25GHz

|            |                                                    |               |                |
|------------|----------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(10MHz 16QAM)<br>RB Size 1 & RB Offset 0 | Test Channel: | Middle channel |
|------------|----------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:39:04

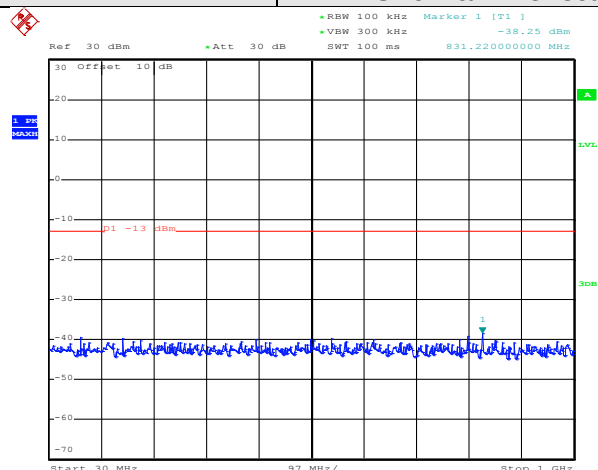
30MHz~1GHz



Date: 19.MAR.2017 19:59:10

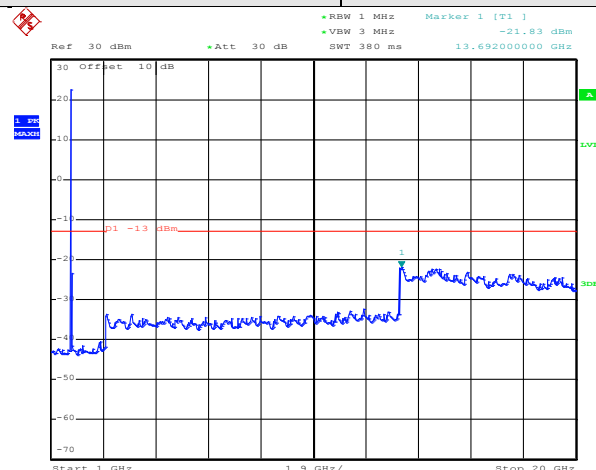
1GHz~25GHz

|            |                                                    |               |                 |
|------------|----------------------------------------------------|---------------|-----------------|
| Test Mode: | LTE band 4(10MHz 16QAM)<br>RB Size 1 & RB Offset 0 | Test Channel: | Highest channel |
|------------|----------------------------------------------------|---------------|-----------------|



Date: 19.MAR.2017 19:39:55

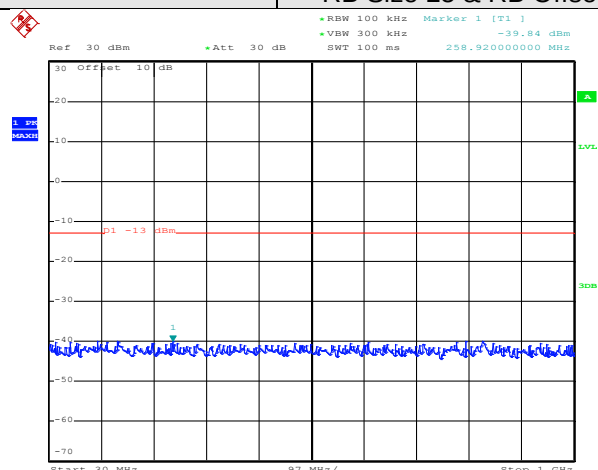
30MHz~1GHz



Date: 19.MAR.2017 20:00:15

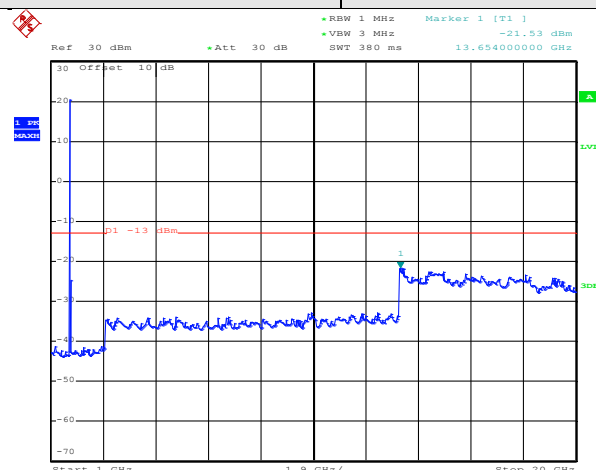
1GHz~25GHz

|            |                                                     |               |                |
|------------|-----------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(10MHz 16QAM)<br>RB Size 25 & RB Offset 0 | Test Channel: | Lowest channel |
|------------|-----------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:38:37

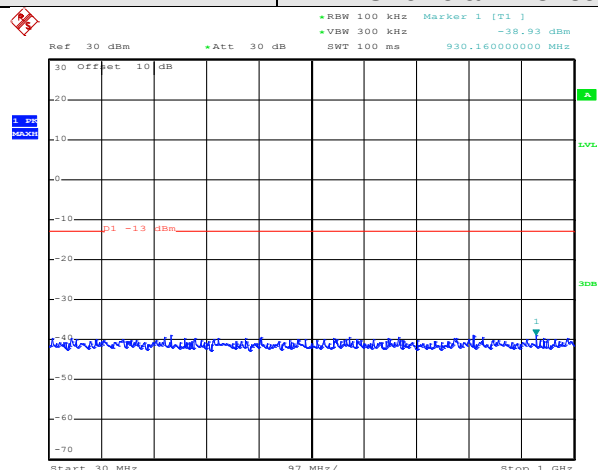
30MHz~1GHz



Date: 19.MAR.2017 19:58:25

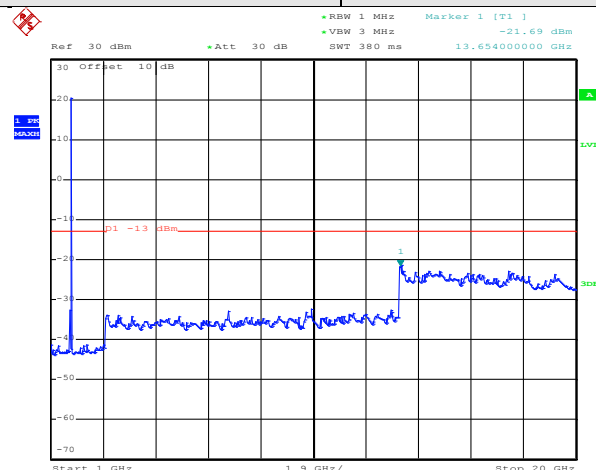
1GHz~25GHz

|            |                                                     |               |                |
|------------|-----------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(10MHz 16QAM)<br>RB Size 25 & RB Offset 0 | Test Channel: | Middle channel |
|------------|-----------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:39:21

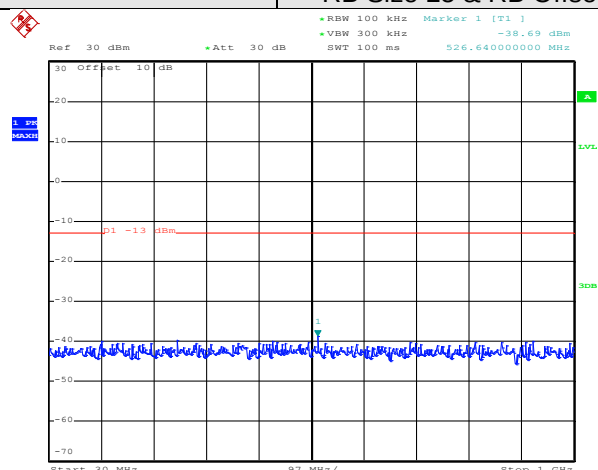
30MHz~1GHz



Date: 19.MAR.2017 19:59:28

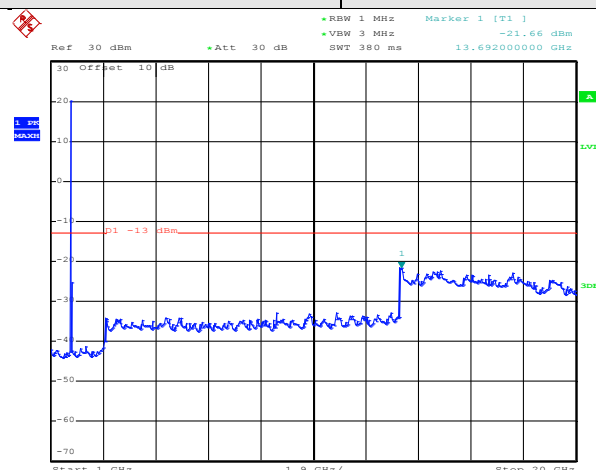
1GHz~25GHz

|            |                                                     |               |                 |
|------------|-----------------------------------------------------|---------------|-----------------|
| Test Mode: | LTE band 4(10MHz 16QAM)<br>RB Size 25 & RB Offset 0 | Test Channel: | Highest channel |
|------------|-----------------------------------------------------|---------------|-----------------|



Date: 19.MAR.2017 19:40:04

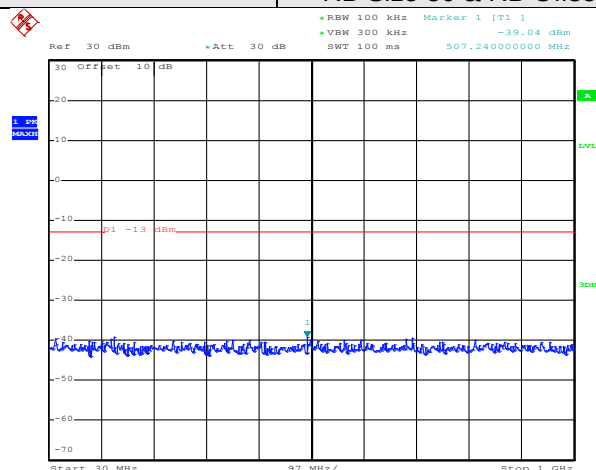
30MHz~1GHz



Date: 19.MAR.2017 20:00:32

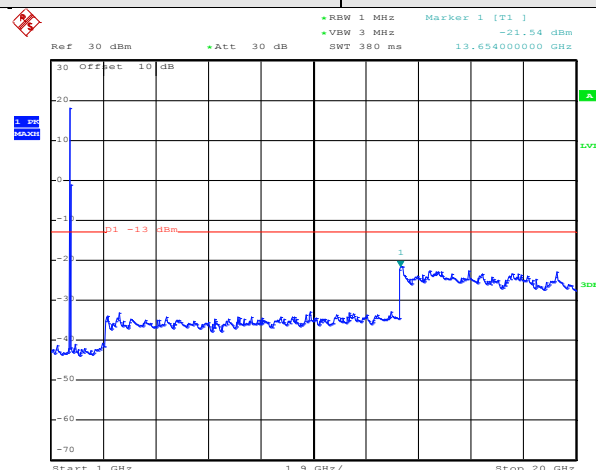
1GHz~25GHz

|            |                                                     |               |                |
|------------|-----------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(10MHz 16QAM)<br>RB Size 50 & RB Offset 0 | Test Channel: | Lowest channel |
|------------|-----------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:38:48

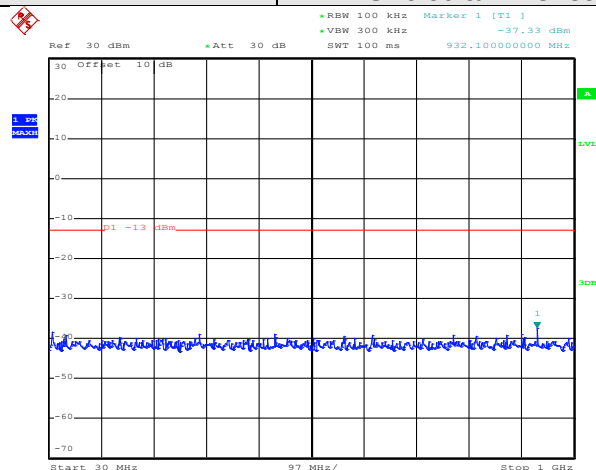
30MHz~1GHz



Date: 19.MAR.2017 19:58:46

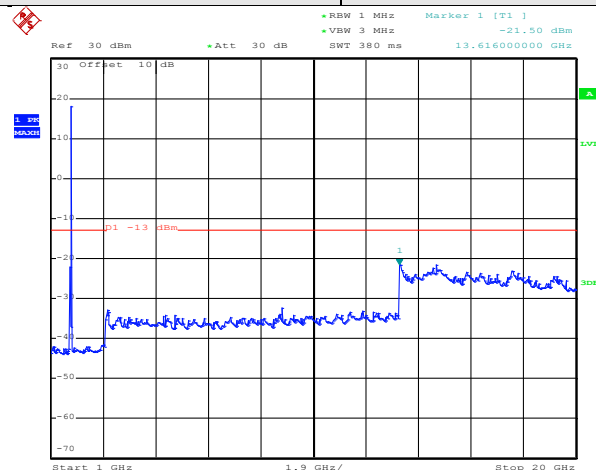
1GHz~25GHz

|            |                                                     |               |                |
|------------|-----------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(10MHz 16QAM)<br>RB Size 50 & RB Offset 0 | Test Channel: | Middle channel |
|------------|-----------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:39:42

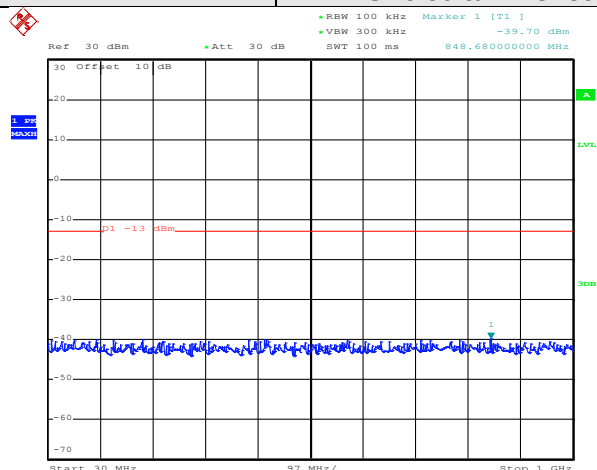
30MHz~1GHz



Date: 19.MAR.2017 19:59:49

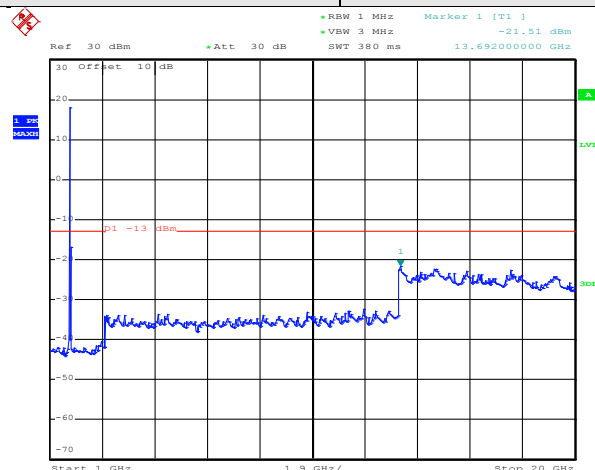
1GHz~25GHz

|            |                                                     |               |                 |
|------------|-----------------------------------------------------|---------------|-----------------|
| Test Mode: | LTE band 4(10MHz 16QAM)<br>RB Size 50 & RB Offset 0 | Test Channel: | Highest channel |
|------------|-----------------------------------------------------|---------------|-----------------|



Date: 19.MAR.2017 19:40:14

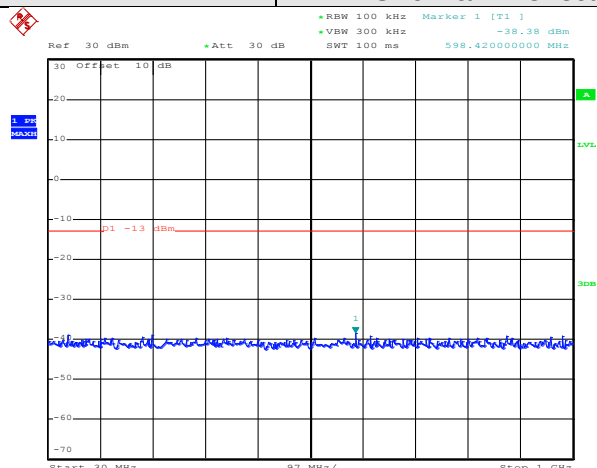
30MHz~1GHz



Date: 19.MAR.2017 20:00:48

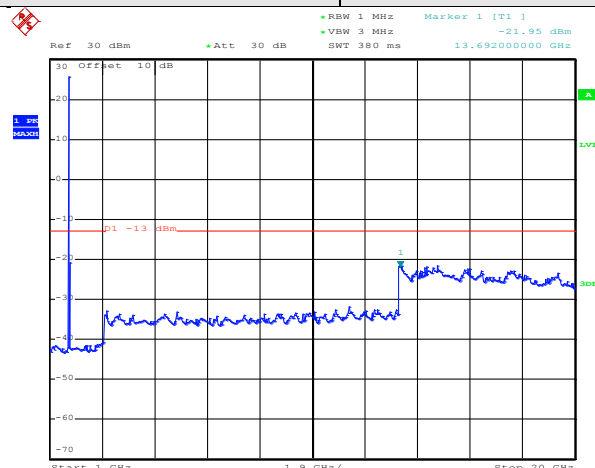
1GHz~25GHz

|            |                                                   |               |                |
|------------|---------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(10MHz QPSK)<br>RB Size 1 & RB Offset 0 | Test Channel: | Lowest channel |
|------------|---------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:38:23

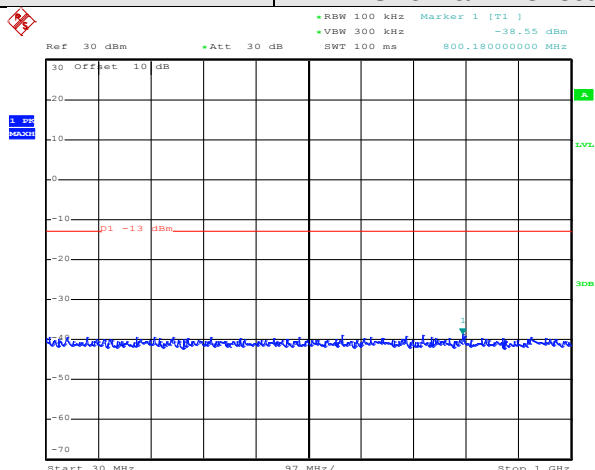
30MHz~1GHz



Date: 19.MAR.2017 19:57:54

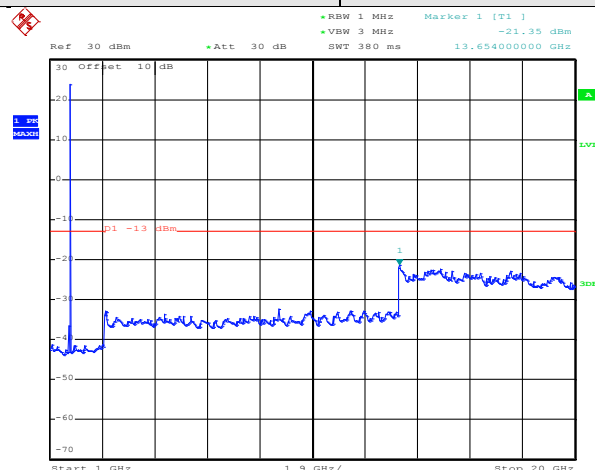
1GHz~25GHz

|            |                                                   |               |                |
|------------|---------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(10MHz QPSK)<br>RB Size 1 & RB Offset 0 | Test Channel: | Middle channel |
|------------|---------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:39:00

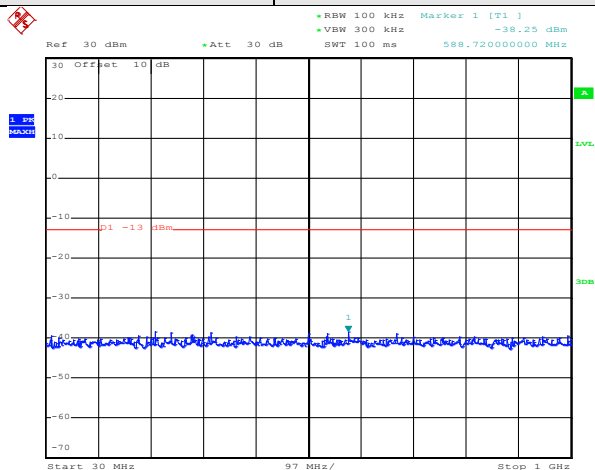
30MHz~1GHz



Date: 19.MAR.2017 19:59:02

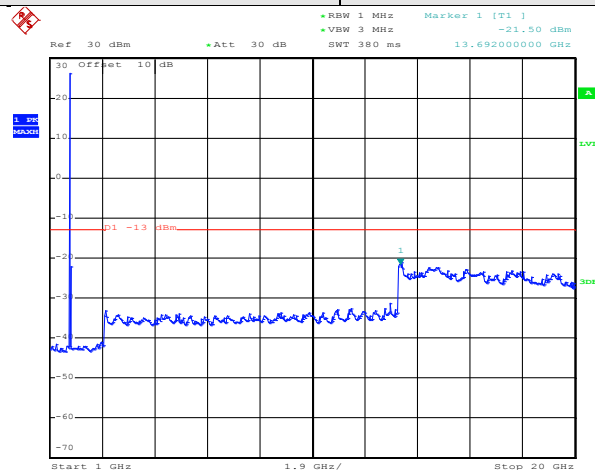
1GHz~25GHz

|            |                                                   |               |                 |
|------------|---------------------------------------------------|---------------|-----------------|
| Test Mode: | LTE band 4(10MHz QPSK)<br>RB Size 1 & RB Offset 0 | Test Channel: | Highest channel |
|------------|---------------------------------------------------|---------------|-----------------|



Date: 19.MAR.2017 19:39:52

30MHz~1GHz

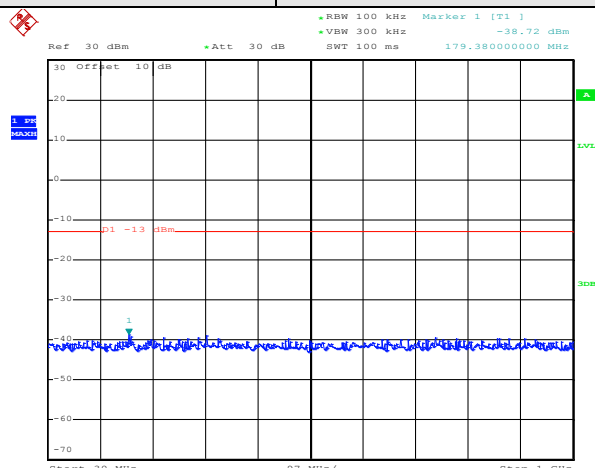


Date: 19.MAR.2017 20:00:07

1GHz~25GHz

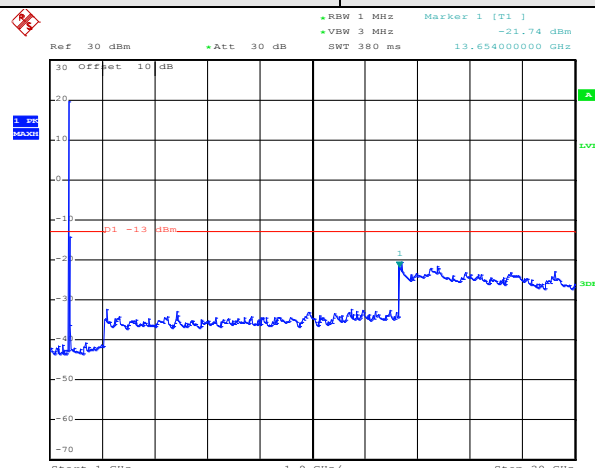


|            |                                                    |               |                |
|------------|----------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(10MHz QPSK)<br>RB Size 25 & RB Offset 0 | Test Channel: | Lowest channel |
|------------|----------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:38:43

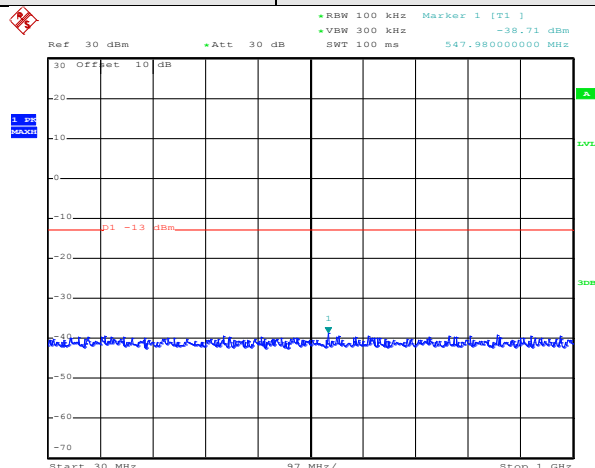
30MHz~1GHz



Date: 19.MAR.2017 19:58:17

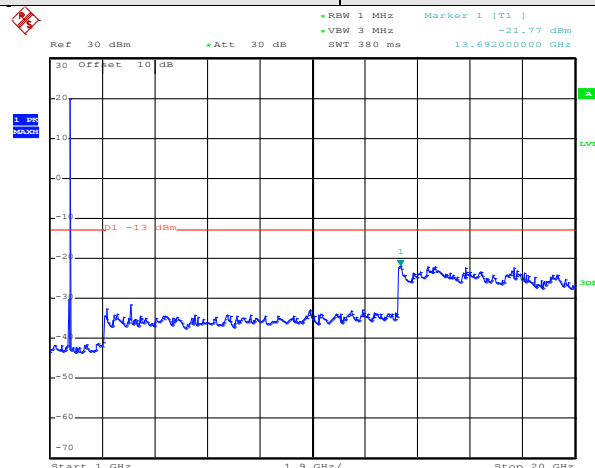
1GHz~25GHz

|            |                                                    |               |                |
|------------|----------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(10MHz QPSK)<br>RB Size 25 & RB Offset 0 | Test Channel: | Middle channel |
|------------|----------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:39:12

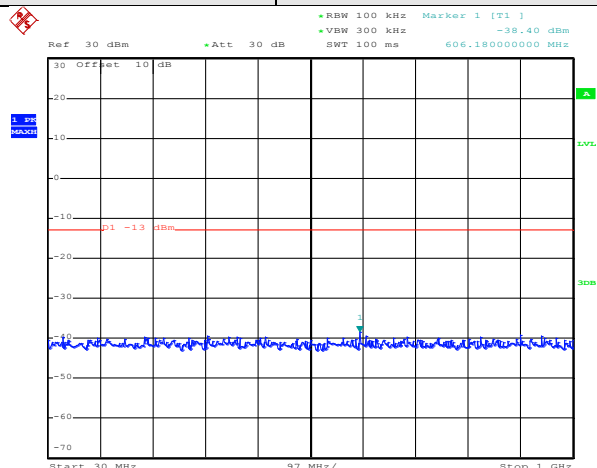
30MHz~1GHz



Date: 19.MAR.2017 19:59:19

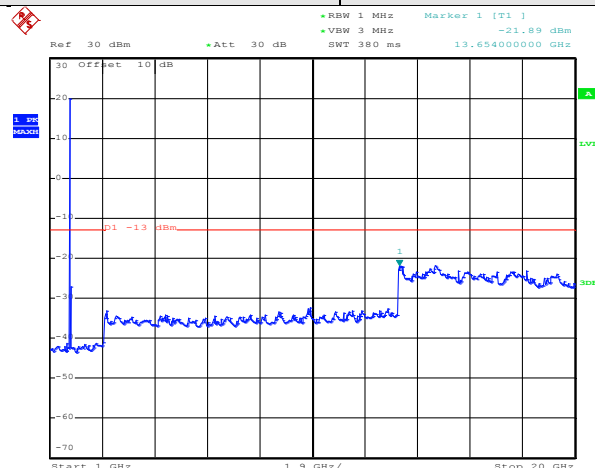
1GHz~25GHz

|            |                                                    |               |                 |
|------------|----------------------------------------------------|---------------|-----------------|
| Test Mode: | LTE band 4(10MHz QPSK)<br>RB Size 25 & RB Offset 0 | Test Channel: | Highest channel |
|------------|----------------------------------------------------|---------------|-----------------|



Date: 19.MAR.2017 19:40:01

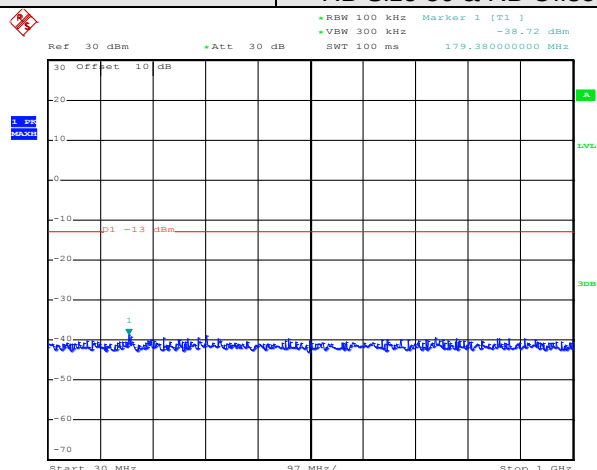
30MHz~1GHz



Date: 19.MAR.2017 20:00:25

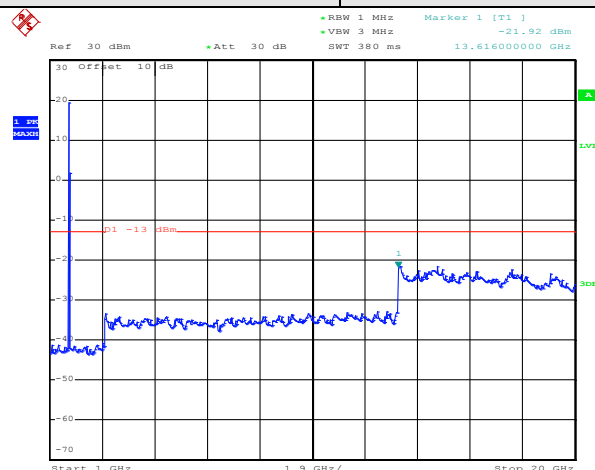
1GHz~25GHz

|            |                                                    |               |                |
|------------|----------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(10MHz QPSK)<br>RB Size 50 & RB Offset 0 | Test Channel: | Lowest channel |
|------------|----------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:38:43

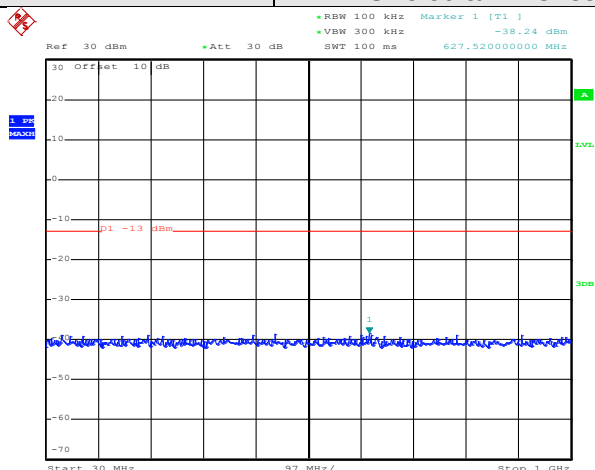
30MHz~1GHz



Date: 19.MAR.2017 19:58:36

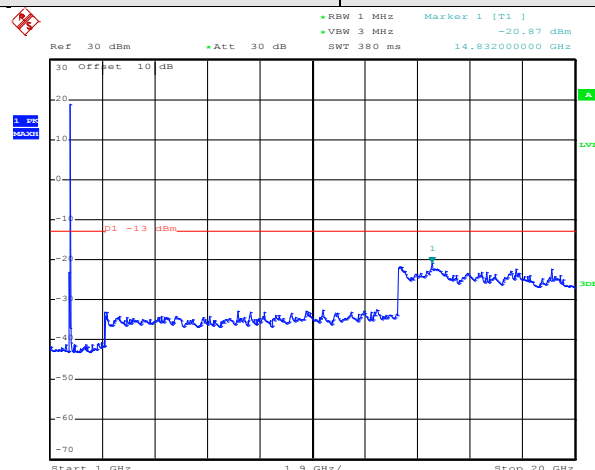
1GHz~25GHz

|            |                                                   |               |                |
|------------|---------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(10MHz QPSK)<br>RB Size 50 & RB Offset0 | Test Channel: | Middle channel |
|------------|---------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:39:36

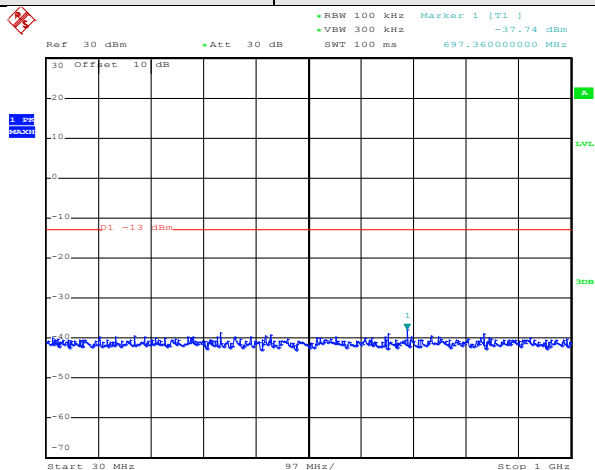
30MHz~1GHz



Date: 19.MAR.2017 19:59:44

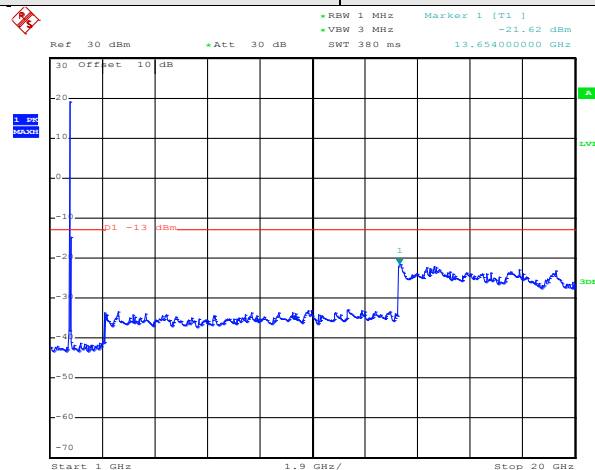
1GHz~25GHz

|            |                                                    |               |                 |
|------------|----------------------------------------------------|---------------|-----------------|
| Test Mode: | LTE band 4(10MHz QPSK)<br>RB Size 50 & RB Offset 0 | Test Channel: | Highest channel |
|------------|----------------------------------------------------|---------------|-----------------|



Date: 19.MAR.2017 19:40:11

30MHz~1GHz

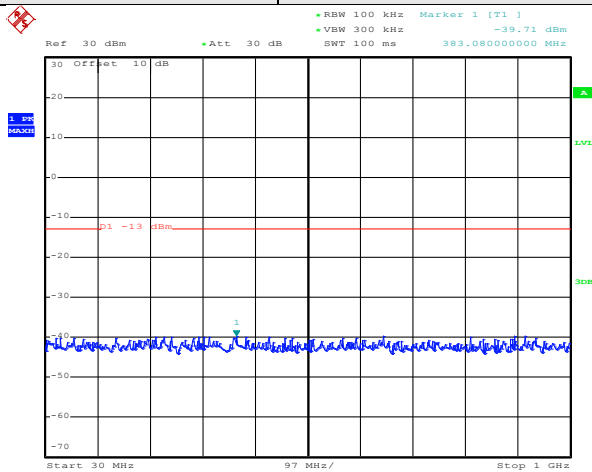


Date: 19.MAR.2017 20:00:41

1GHz~25GHz

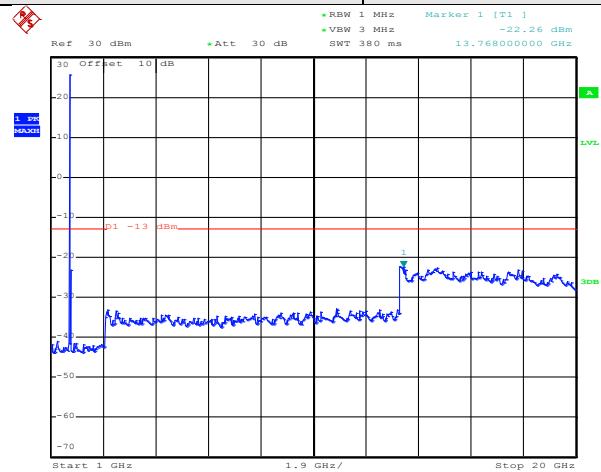
## 15MHz

|            |                                                    |               |                |
|------------|----------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(15MHz 16QAM)<br>RB Size 1 & RB Offset 0 | Test Channel: | Lowest channel |
|------------|----------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:40:27

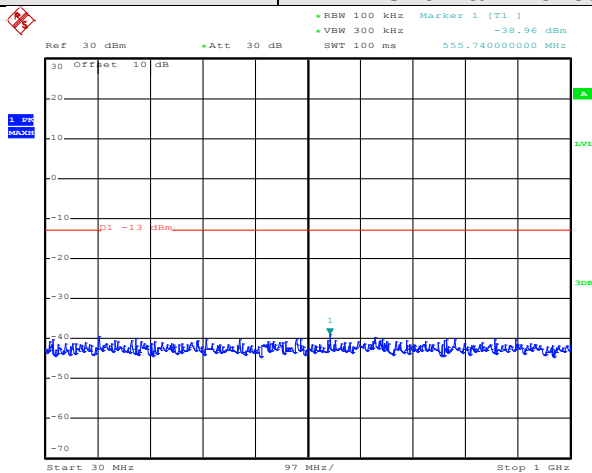
30MHz~1GHz



Date: 19.MAR.2017 20:01:29

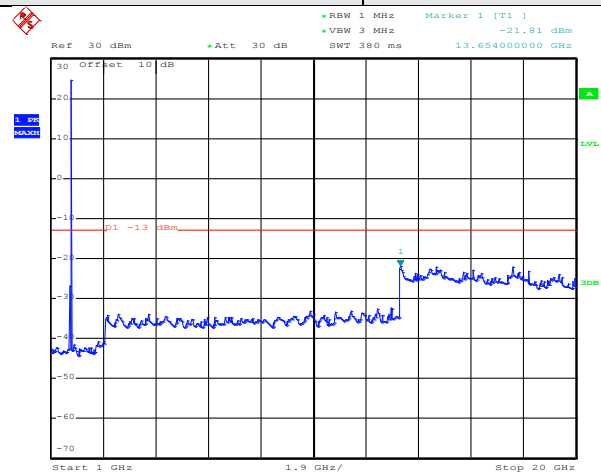
1GHz~25GHz

|            |                                                    |               |                |
|------------|----------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(15MHz 16QAM)<br>RB Size 1 & RB Offset 0 | Test Channel: | Middle channel |
|------------|----------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:41:00

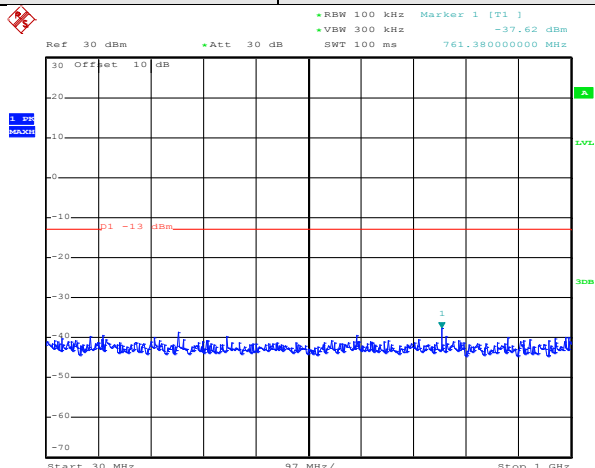
30MHz~1GHz



Date: 19.MAR.2017 20:02:41

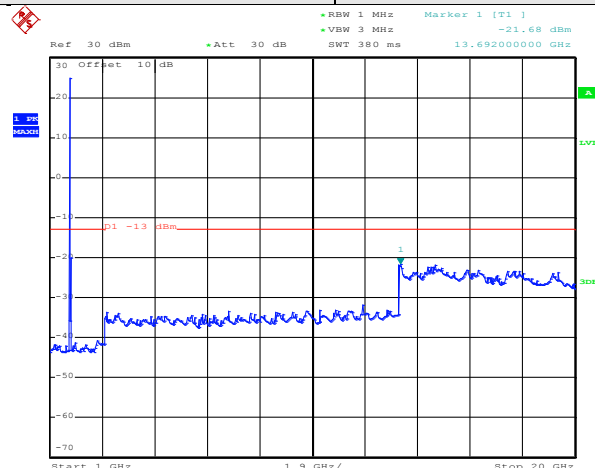
1GHz~25GHz

|            |                                                    |               |                 |
|------------|----------------------------------------------------|---------------|-----------------|
| Test Mode: | LTE band 4(15MHz 16QAM)<br>RB Size 1 & RB Offset 0 | Test Channel: | Highest channel |
|------------|----------------------------------------------------|---------------|-----------------|



Date: 19.MAR.2017 19:41:33

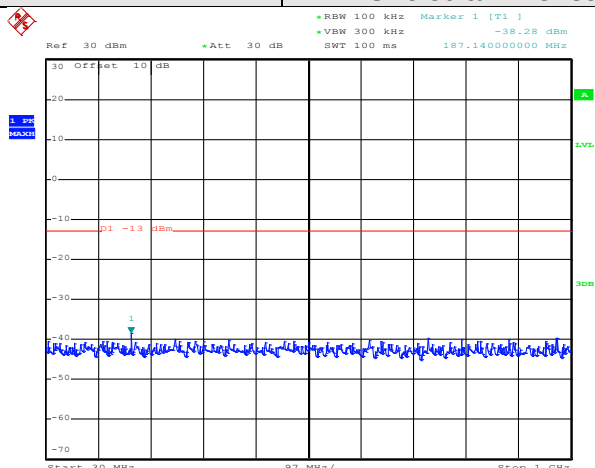
30MHz~1GHz



Date: 19.MAR.2017 20:03:53

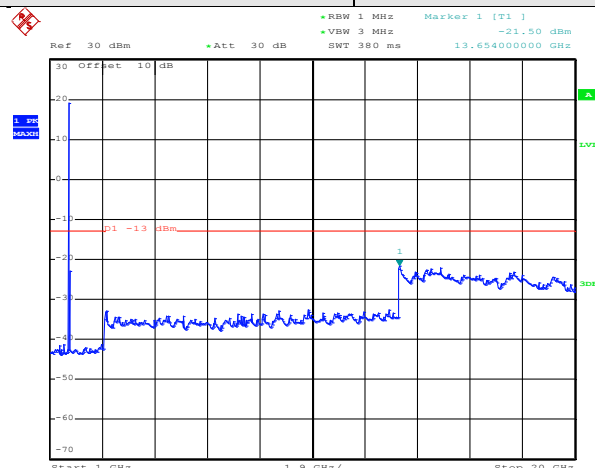
1GHz~25GHz

|            |                                                     |               |                |
|------------|-----------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(15MHz 16QAM)<br>RB Size 36 & RB Offset 0 | Test Channel: | Lowest channel |
|------------|-----------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:40:37

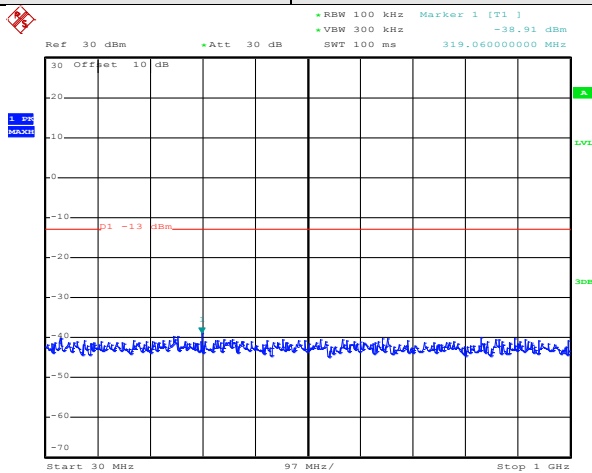
30MHz~1GHz



Date: 19.MAR.2017 20:01:50

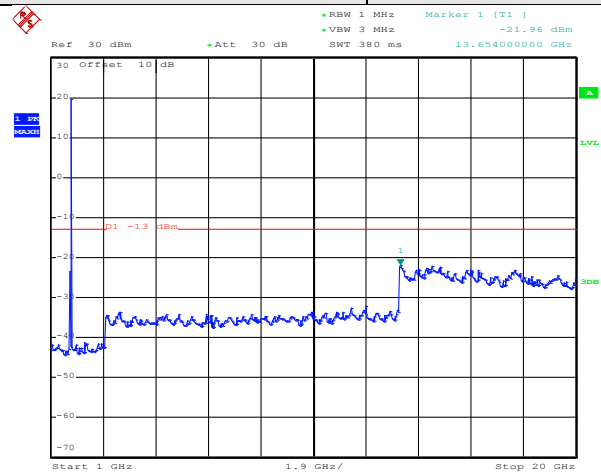
1GHz~25GHz

|            |                                                     |               |                |
|------------|-----------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(15MHz 16QAM)<br>RB Size 36 & RB Offset 0 | Test Channel: | Middle channel |
|------------|-----------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:41:09

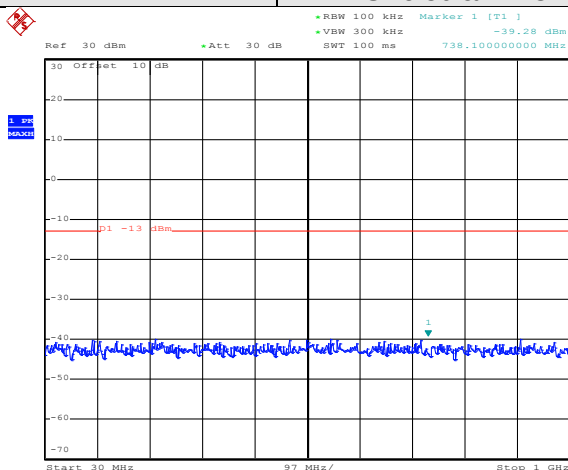
30MHz~1GHz



Date: 19.MAR.2017 20:03:02

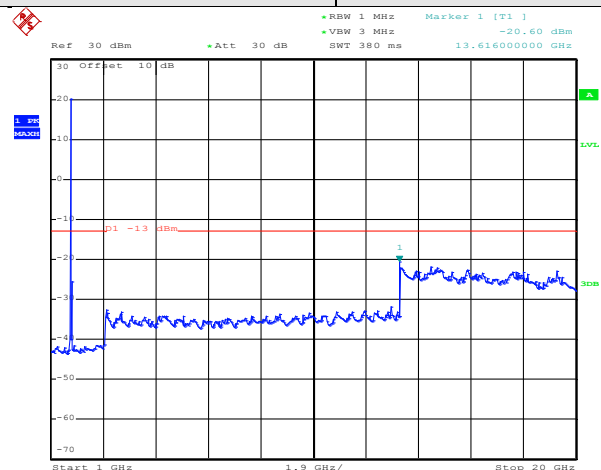
1GHz~25GHz

|            |                                                     |               |                 |
|------------|-----------------------------------------------------|---------------|-----------------|
| Test Mode: | LTE band 4(15MHz 16QAM)<br>RB Size 36 & RB Offset 0 | Test Channel: | Highest channel |
|------------|-----------------------------------------------------|---------------|-----------------|



Date: 19.MAR.2017 19:41:43

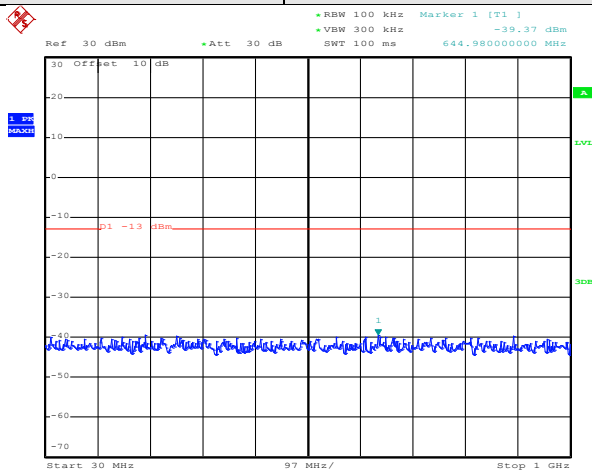
30MHz~1GHz



Date: 19.MAR.2017 20:04:19

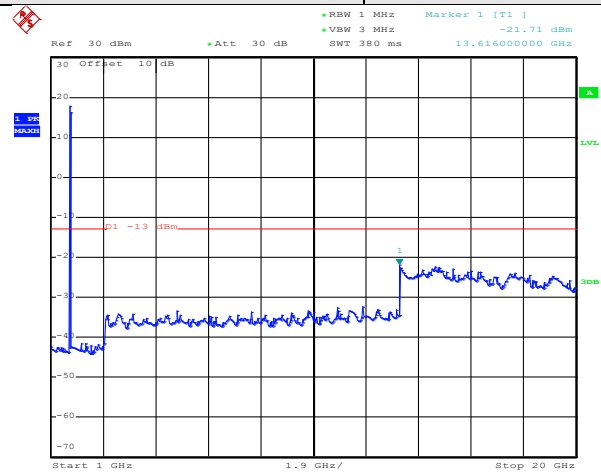
1GHz~25GHz

|            |                                                     |               |                |
|------------|-----------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(15MHz 16QAM)<br>RB Size 75 & RB Offset 0 | Test Channel: | Lowest channel |
|------------|-----------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:40:47

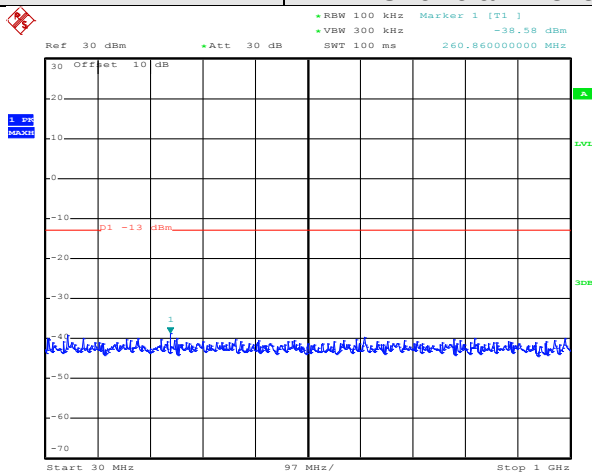
30MHz~1GHz



Date: 19.MAR.2017 20:02:07

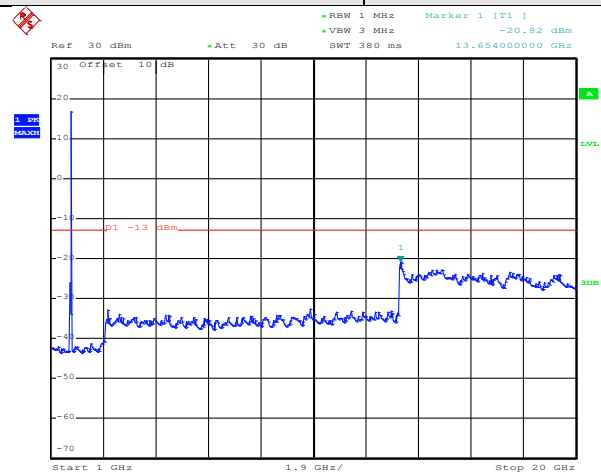
1GHz~25GHz

|            |                                                     |               |                |
|------------|-----------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(15MHz 16QAM)<br>RB Size 75 & RB Offset 0 | Test Channel: | Middle channel |
|------------|-----------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:41:19

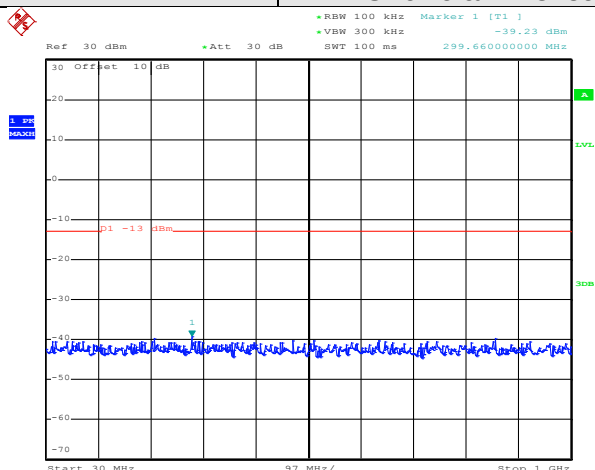
30MHz~1GHz



Date: 19.MAR.2017 20:03:20

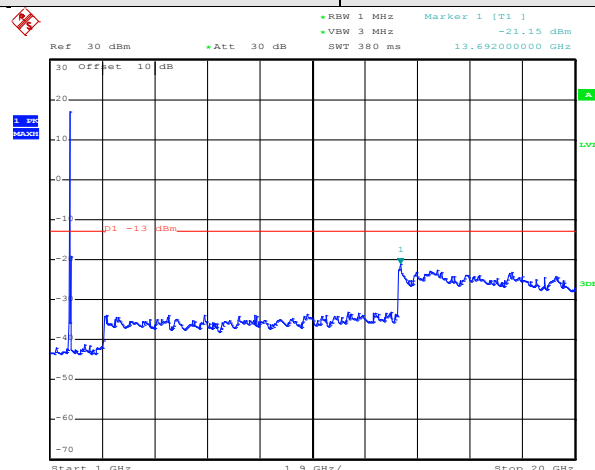
1GHz~25GHz

|            |                                                     |               |                 |
|------------|-----------------------------------------------------|---------------|-----------------|
| Test Mode: | LTE band 4(15MHz 16QAM)<br>RB Size 75 & RB Offset 0 | Test Channel: | Highest channel |
|------------|-----------------------------------------------------|---------------|-----------------|



Date: 19.MAR.2017 19:41:51

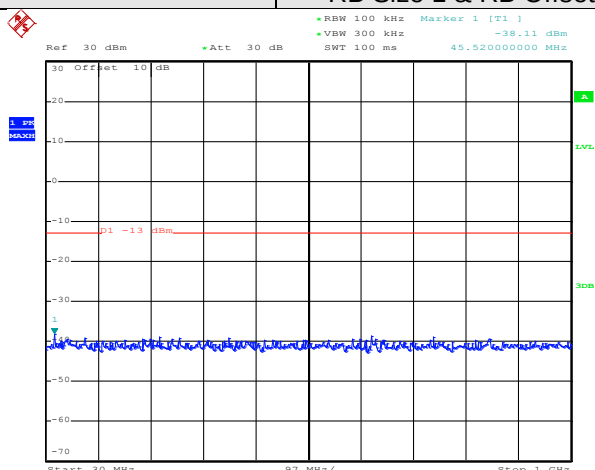
30MHz~1GHz



Date: 19.MAR.2017 20:04:36

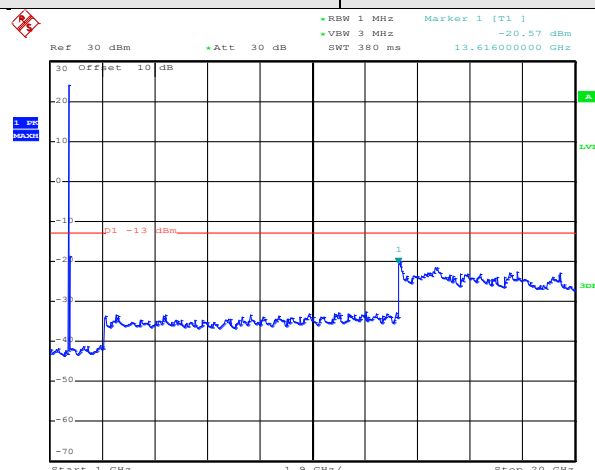
1GHz~25GHz

|            |                                                   |               |                |
|------------|---------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(15MHz QPSK)<br>RB Size 1 & RB Offset 0 | Test Channel: | Lowest channel |
|------------|---------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:40:23

30MHz~1GHz

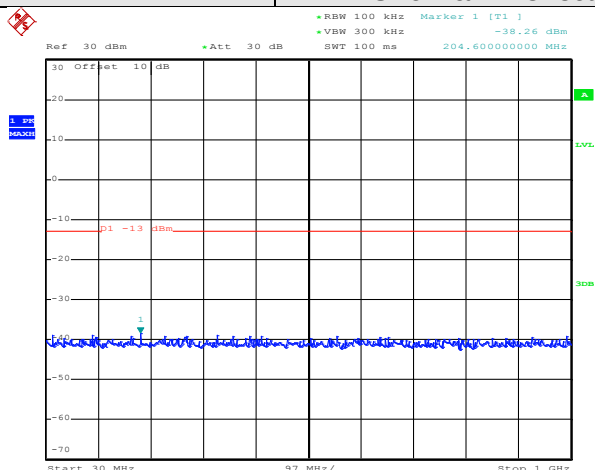


Date: 19.MAR.2017 20:01:21

1GHz~25GHz

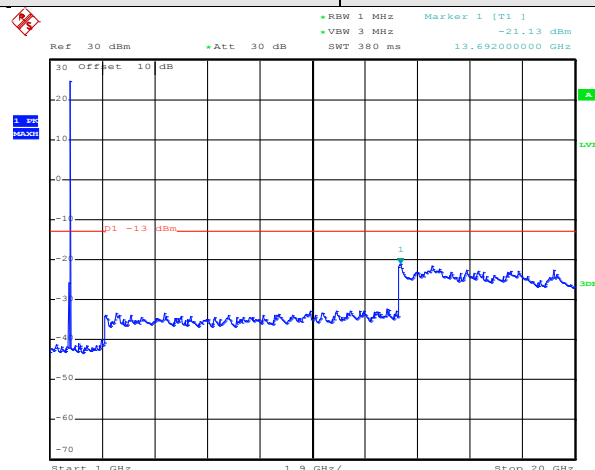


|            |                                                   |               |                |
|------------|---------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(15MHz QPSK)<br>RB Size 1 & RB Offset 0 | Test Channel: | Middle channel |
|------------|---------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:40:57

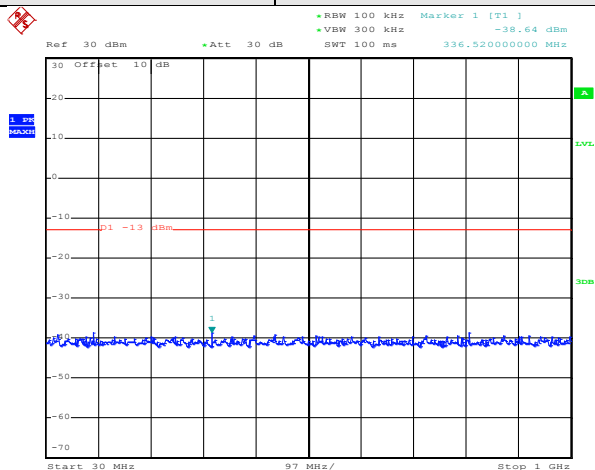
30MHz~1GHz



Date: 19.MAR.2017 20:02:30

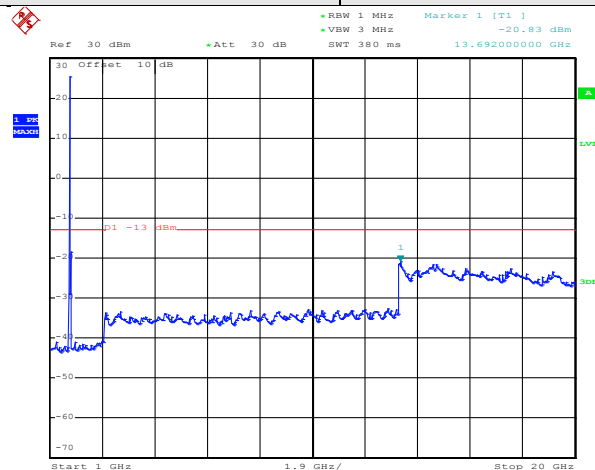
1GHz~25GHz

|            |                                                   |               |                 |
|------------|---------------------------------------------------|---------------|-----------------|
| Test Mode: | LTE band 4(15MHz QPSK)<br>RB Size 1 & RB Offset 0 | Test Channel: | Highest channel |
|------------|---------------------------------------------------|---------------|-----------------|



Date: 19.MAR.2017 19:41:30

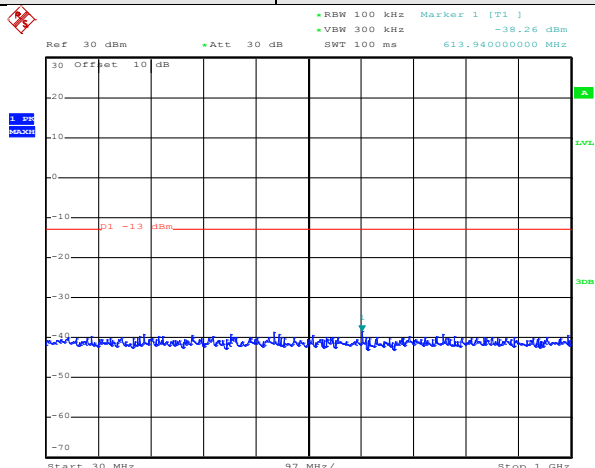
30MHz~1GHz



Date: 19.MAR.2017 20:03:43

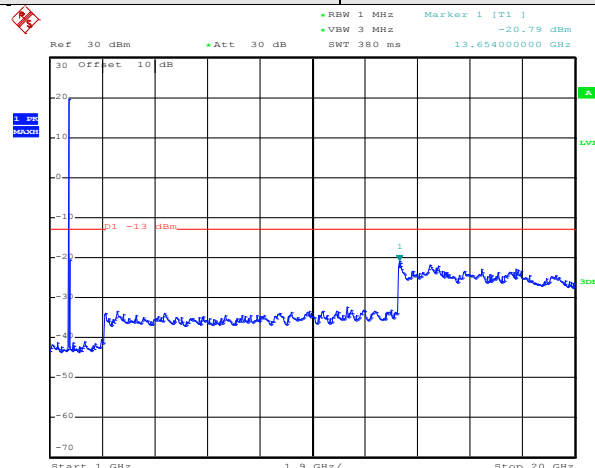
1GHz~25GHz

|            |                                                    |               |                |
|------------|----------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(15MHz QPSK)<br>RB Size 36 & RB Offset 0 | Test Channel: | Lowest channel |
|------------|----------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:40:34

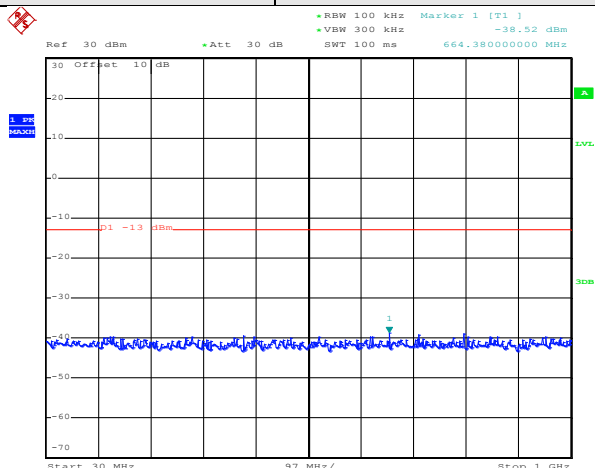
30MHz~1GHz



Date: 19.MAR.2017 20:01:42

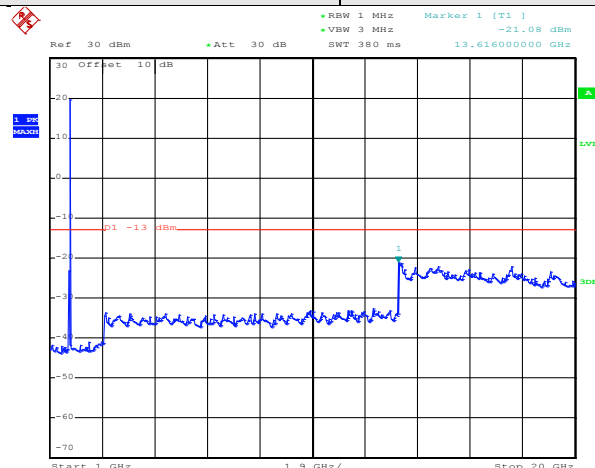
1GHz~25GHz

|            |                                                    |               |                |
|------------|----------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(15MHz QPSK)<br>RB Size 36 & RB Offset 0 | Test Channel: | Middle channel |
|------------|----------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:41:06

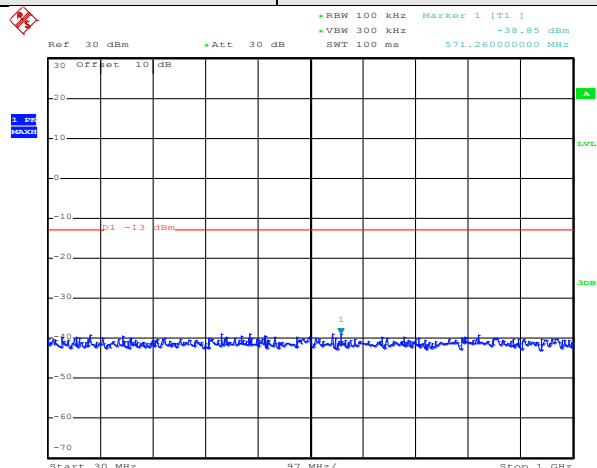
30MHz~1GHz



Date: 19.MAR.2017 20:02:53

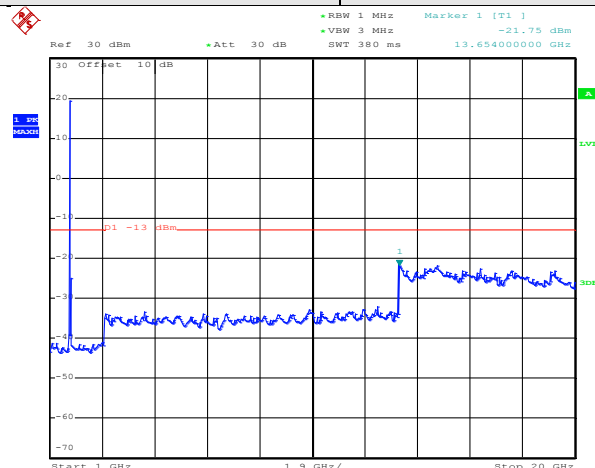
1GHz~25GHz

|            |                                                    |               |                 |
|------------|----------------------------------------------------|---------------|-----------------|
| Test Mode: | LTE band 4(15MHz QPSK)<br>RB Size 36 & RB Offset 0 | Test Channel: | Highest channel |
|------------|----------------------------------------------------|---------------|-----------------|



Date: 19.MAR.2017 19:41:39

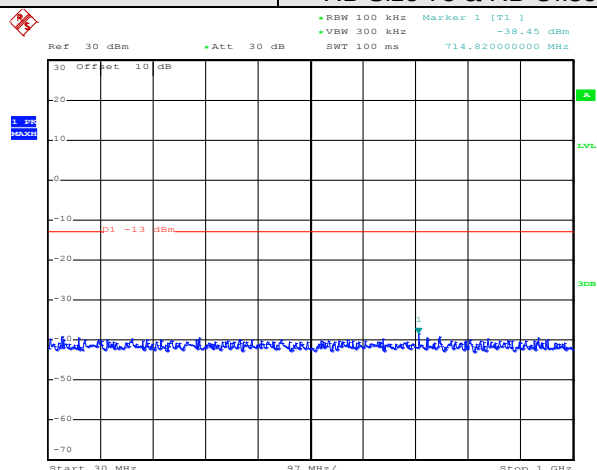
30MHz~1GHz



Date: 19.MAR.2017 20:04:08

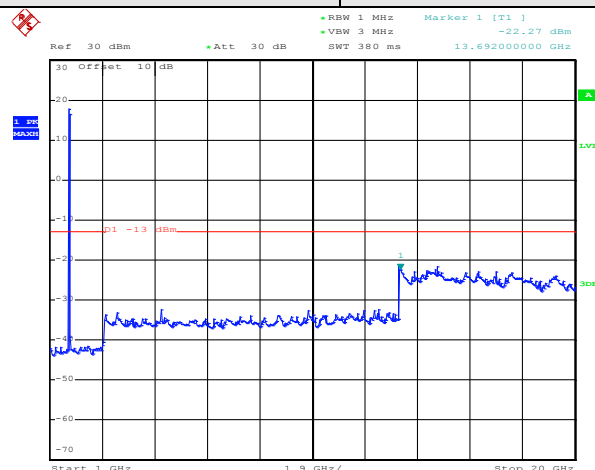
1GHz~25GHz

|            |                                                    |               |                |
|------------|----------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(15MHz QPSK)<br>RB Size 75 & RB Offset 0 | Test Channel: | Lowest channel |
|------------|----------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:40:44

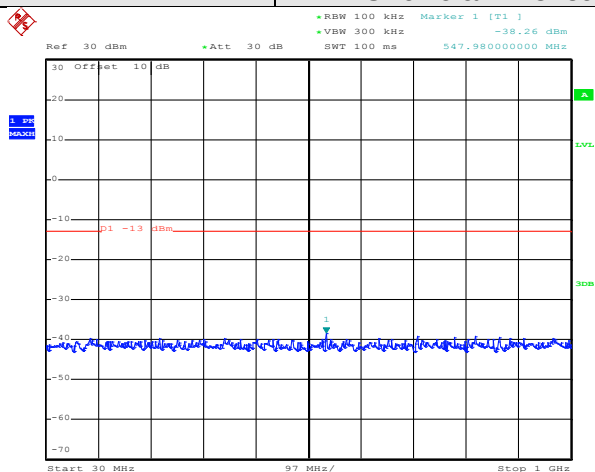
30MHz~1GHz



Date: 19.MAR.2017 20:02:02

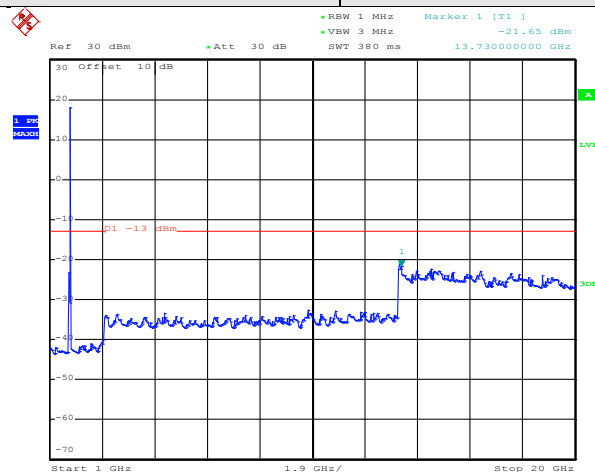
1GHz~25GHz

|            |                                                    |               |                |
|------------|----------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(15MHz QPSK)<br>RB Size 75 & RB Offset 0 | Test Channel: | Middle channel |
|------------|----------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:41:15

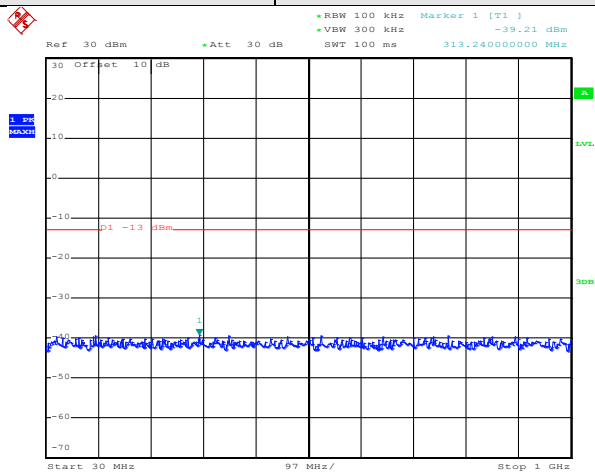
30MHz~1GHz



Date: 19.MAR.2017 20:03:11

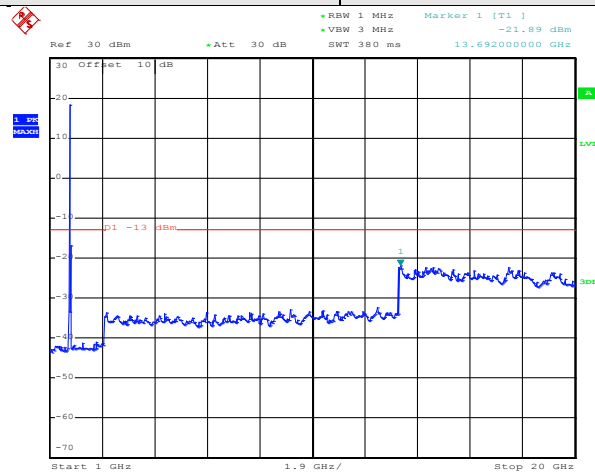
1GHz~25GHz

|            |                                                    |               |                 |
|------------|----------------------------------------------------|---------------|-----------------|
| Test Mode: | LTE band 4(15MHz QPSK)<br>RB Size 75 & RB Offset 0 | Test Channel: | Highest channel |
|------------|----------------------------------------------------|---------------|-----------------|



Date: 19.MAR.2017 19:41:48

30MHz~1GHz

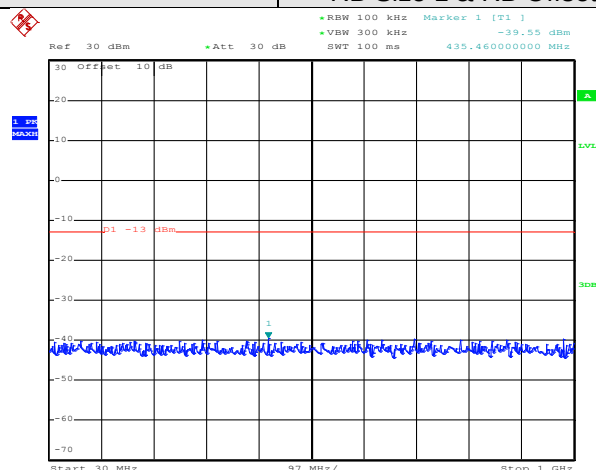


Date: 19.MAR.2017 20:04:30

1GHz~25GHz

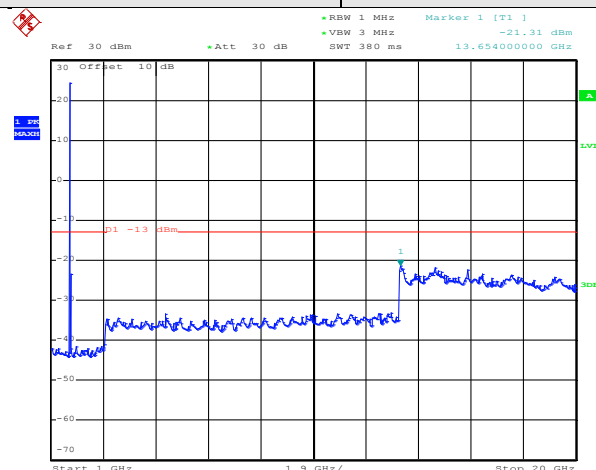
### 20MHz

|            |                                                    |               |                |
|------------|----------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(20MHz 16QAM)<br>RB Size 1 & RB Offset 0 | Test Channel: | Lowest channel |
|------------|----------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:42:04

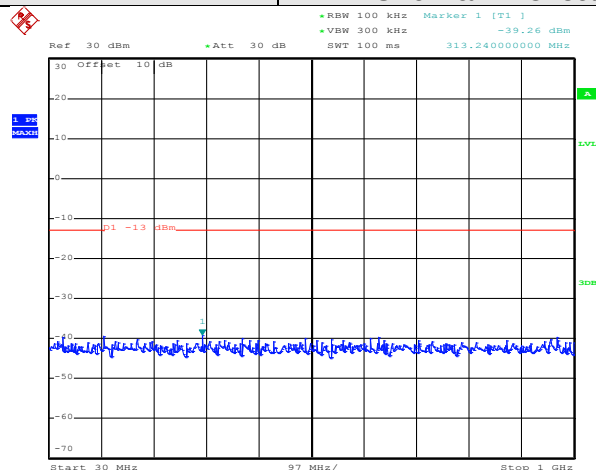
30MHz~1GHz



Date: 19.MAR.2017 20:05:24

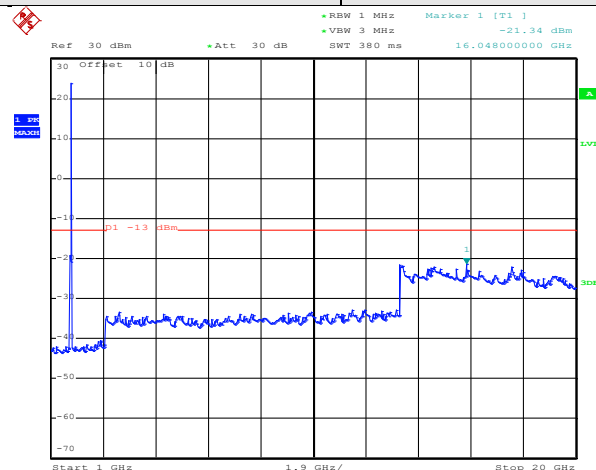
1GHz~25GHz

|            |                                                    |               |                |
|------------|----------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(20MHz 16QAM)<br>RB Size 1 & RB Offset 0 | Test Channel: | Middle channel |
|------------|----------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:42:37

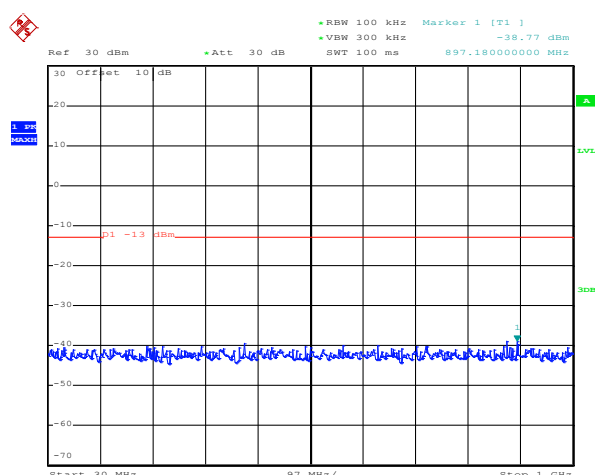
30MHz~1GHz



Date: 19.MAR.2017 20:06:26

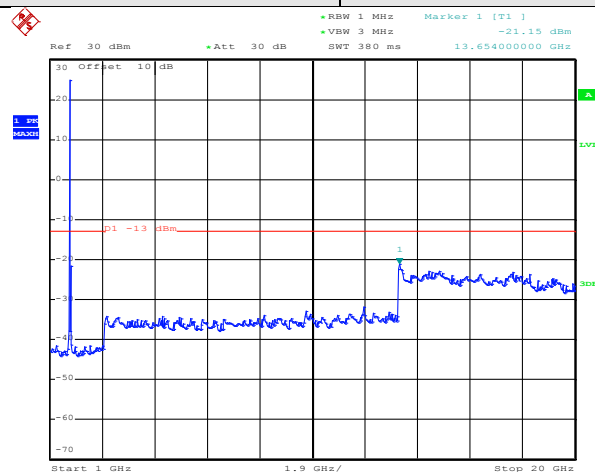
1GHz~25GHz

|            |                                                    |               |                 |
|------------|----------------------------------------------------|---------------|-----------------|
| Test Mode: | LTE band 4(20MHz 16QAM)<br>RB Size 1 & RB Offset 0 | Test Channel: | Highest channel |
|------------|----------------------------------------------------|---------------|-----------------|



Date: 19.MAR.2017 19:43:13

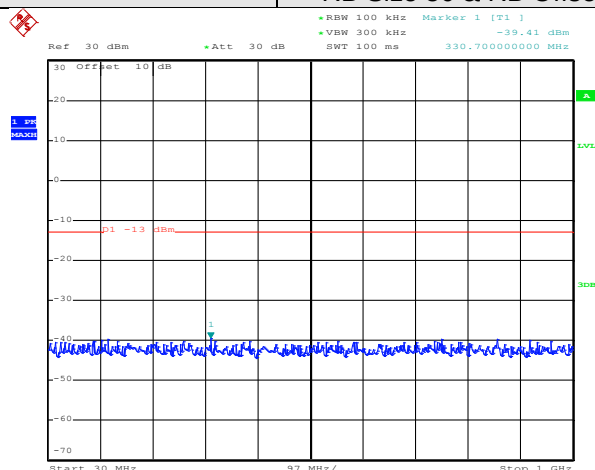
30MHz~1GHz



Date: 19.MAR.2017 20:07:25

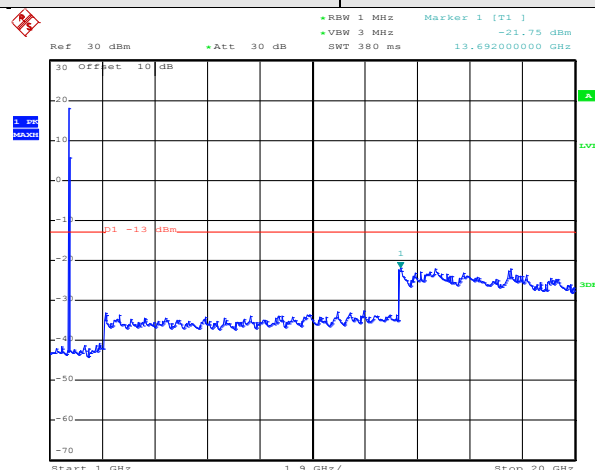
1GHz~25GHz

|            |                                                     |               |                |
|------------|-----------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(20MHz 16QAM)<br>RB Size 50 & RB Offset 0 | Test Channel: | Lowest channel |
|------------|-----------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:42:14

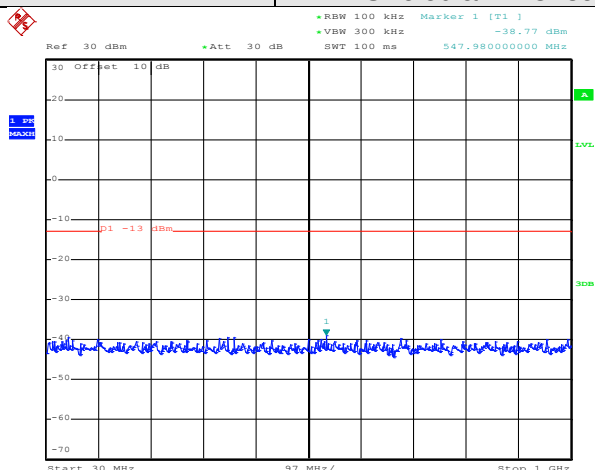
30MHz~1GHz



Date: 19.MAR.2017 20:05:41

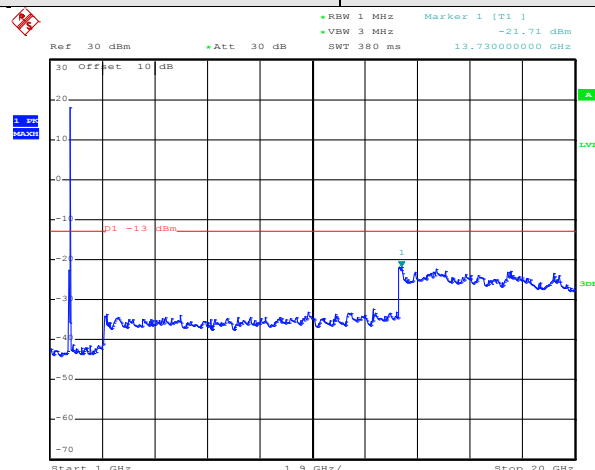
1GHz~25GHz

|            |                                                     |               |                |
|------------|-----------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(20MHz 16QAM)<br>RB Size 50 & RB Offset 0 | Test Channel: | Middle channel |
|------------|-----------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:42:51

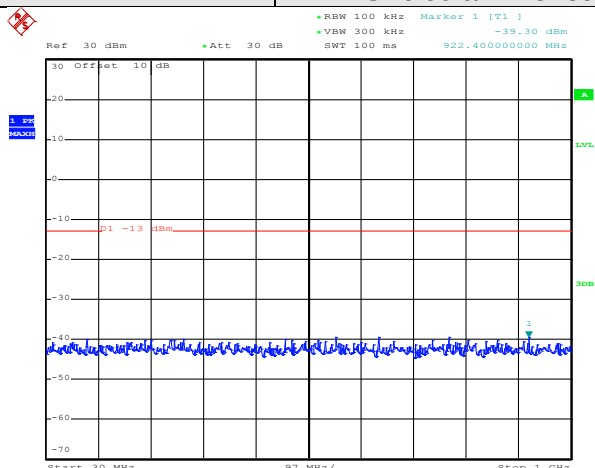
30MHz~1GHz



Date: 19.MAR.2017 20:06:45

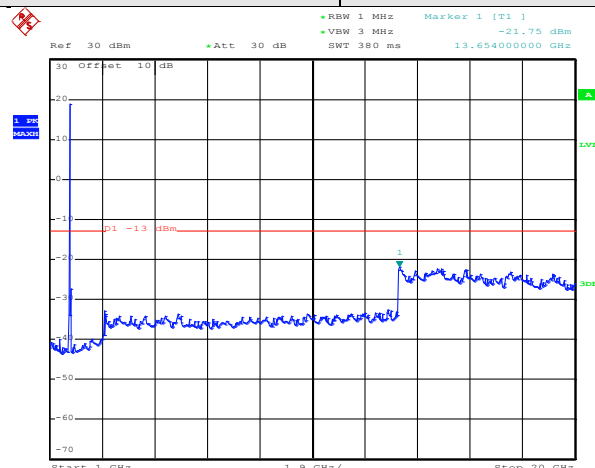
1GHz~25GHz

|            |                                                     |               |                 |
|------------|-----------------------------------------------------|---------------|-----------------|
| Test Mode: | LTE band 4(20MHz 16QAM)<br>RB Size 50 & RB Offset 0 | Test Channel: | Highest channel |
|------------|-----------------------------------------------------|---------------|-----------------|



Date: 19.MAR.2017 19:43:22

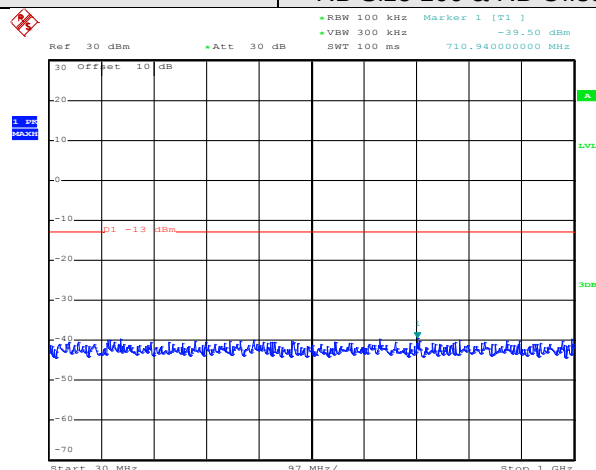
30MHz~1GHz



Date: 19.MAR.2017 20:07:45

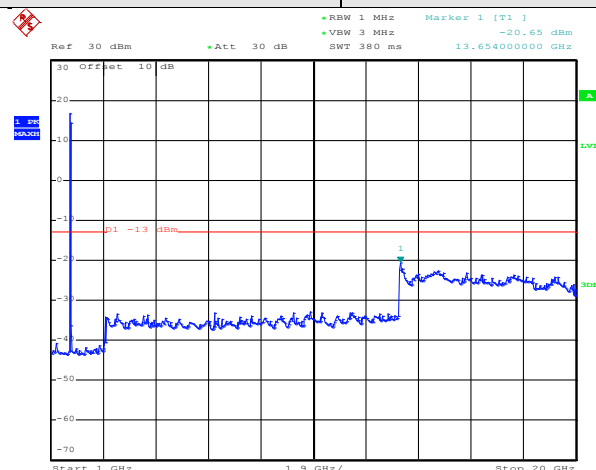
1GHz~25GHz

|            |                                                      |               |                |
|------------|------------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(20MHz 16QAM)<br>RB Size 100 & RB Offset 0 | Test Channel: | Lowest channel |
|------------|------------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:42:25

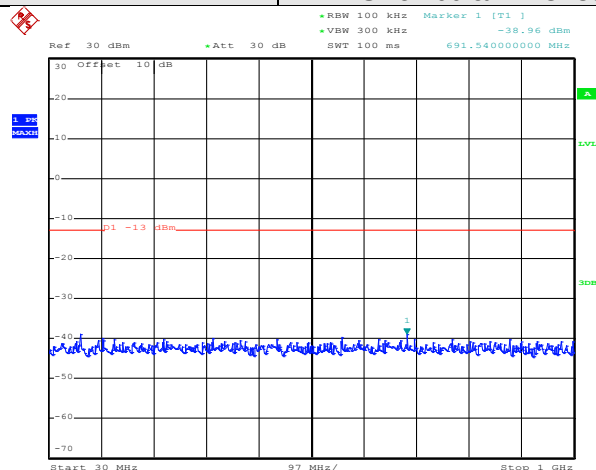
30MHz~1GHz



Date: 19.MAR.2017 20:05:59

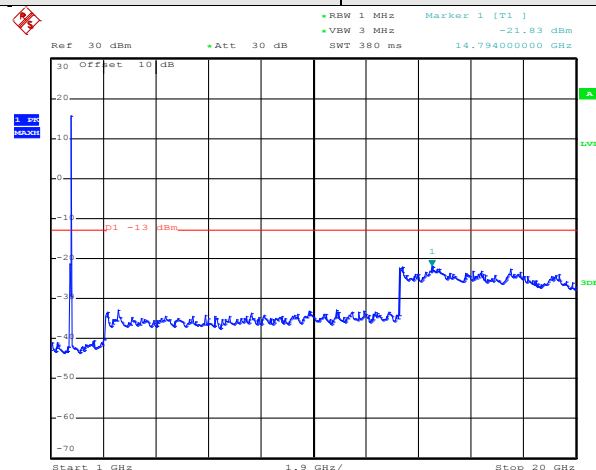
1GHz~25GHz

|            |                                                      |               |                |
|------------|------------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(20MHz 16QAM)<br>RB Size 100 & RB Offset 0 | Test Channel: | Middle channel |
|------------|------------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:43:00

30MHz~1GHz

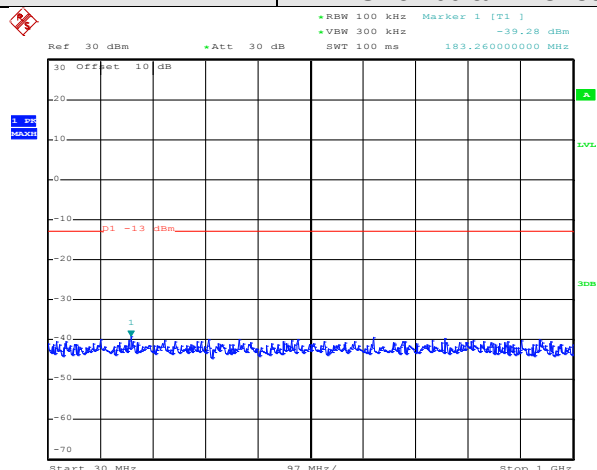


Date: 19.MAR.2017 20:07:02

1GHz~25GHz

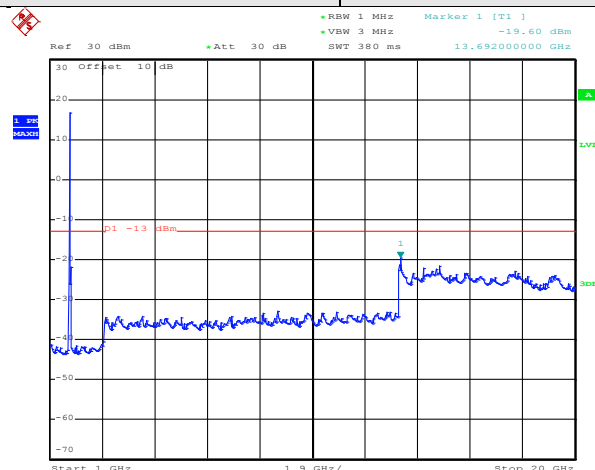


|            |                                                      |               |                 |
|------------|------------------------------------------------------|---------------|-----------------|
| Test Mode: | LTE band 4(20MHz 16QAM)<br>RB Size 100 & RB Offset 0 | Test Channel: | Highest channel |
|------------|------------------------------------------------------|---------------|-----------------|



Date: 19.MAR.2017 19:43:30

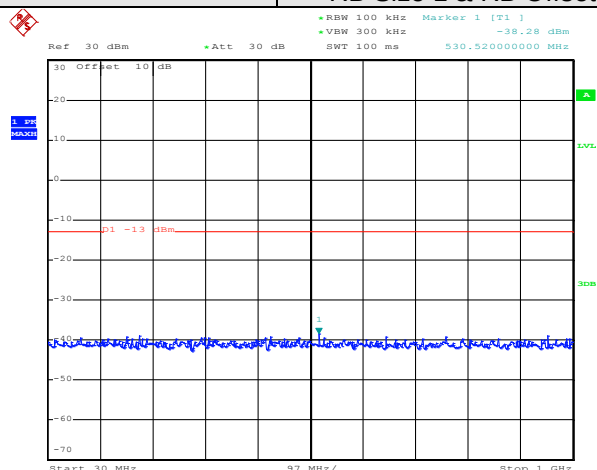
30MHz~1GHz



Date: 19.MAR.2017 20:08:04

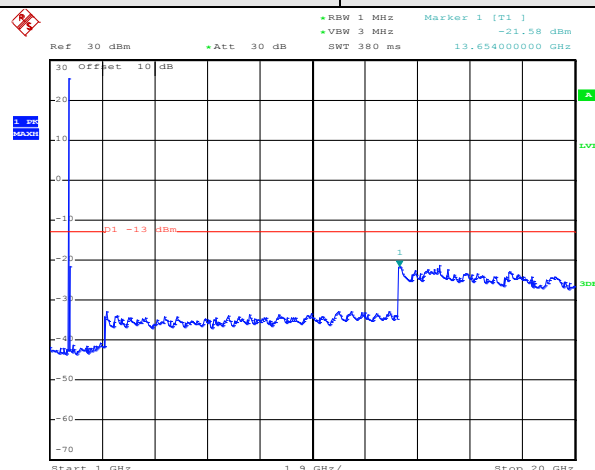
1GHz~25GHz

|            |                                                   |               |                |
|------------|---------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(20MHz QPSK)<br>RB Size 1 & RB Offset 0 | Test Channel: | Lowest channel |
|------------|---------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:42:01

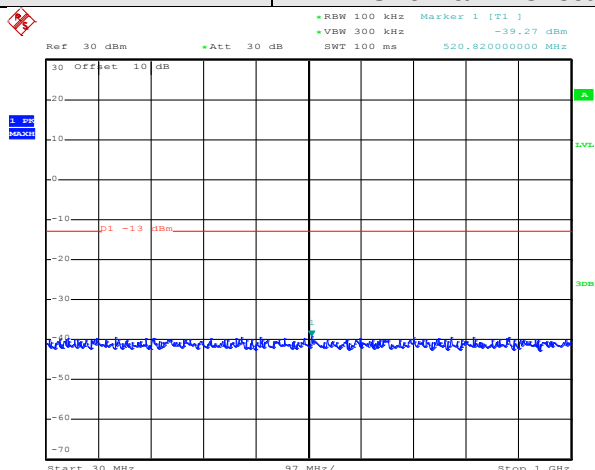
30MHz~1GHz



Date: 19.MAR.2017 20:05:15

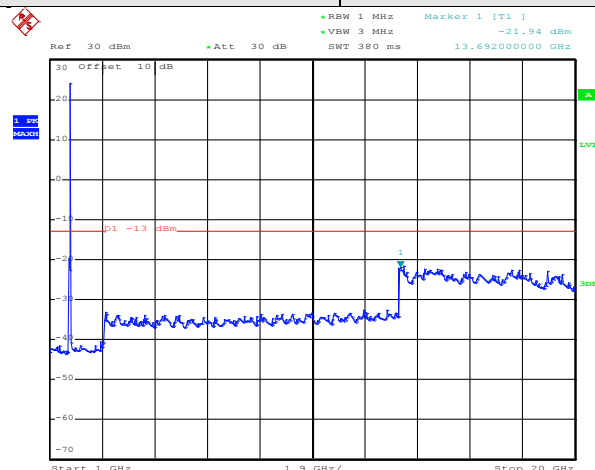
1GHz~25GHz

|            |                                                   |               |                |
|------------|---------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(20MHz QPSK)<br>RB Size 1 & RB Offset 0 | Test Channel: | Middle channel |
|------------|---------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:42:34

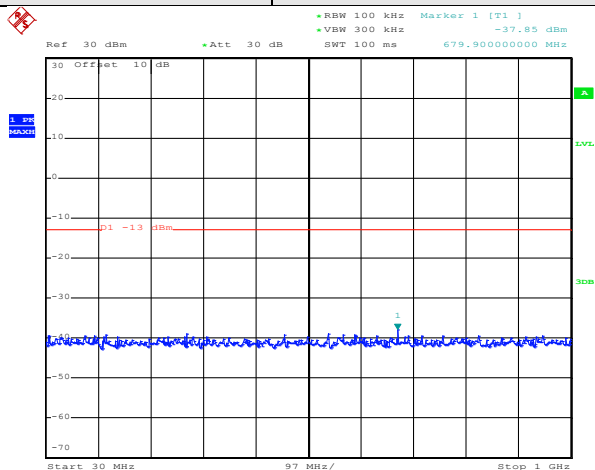
30MHz~1GHz



Date: 19.MAR.2017 20:06:15

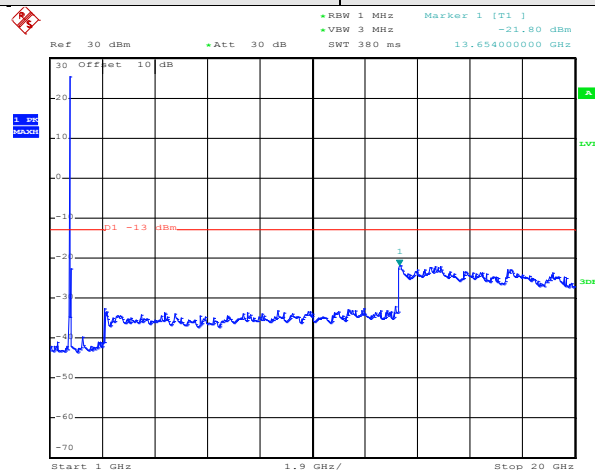
1GHz~25GHz

|            |                                                   |               |                 |
|------------|---------------------------------------------------|---------------|-----------------|
| Test Mode: | LTE band 4(20MHz QPSK)<br>RB Size 1 & RB Offset 0 | Test Channel: | Highest channel |
|------------|---------------------------------------------------|---------------|-----------------|



Date: 19.MAR.2017 19:43:09

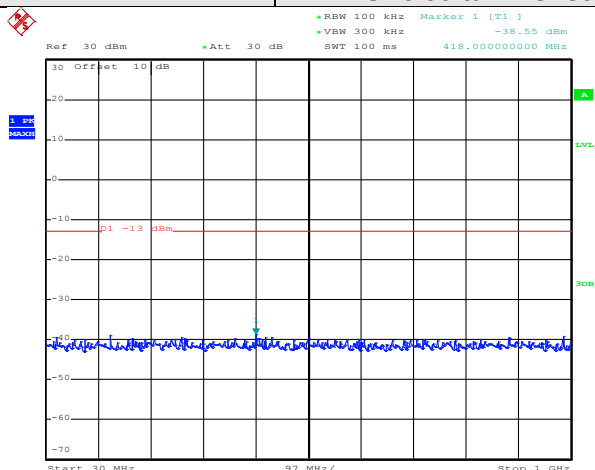
30MHz~1GHz



Date: 19.MAR.2017 20:07:19

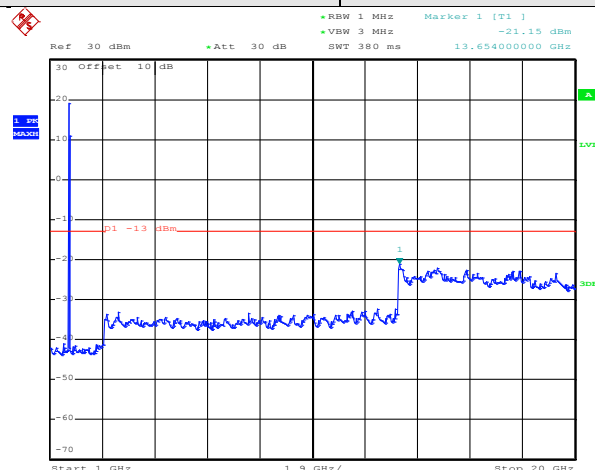
1GHz~25GHz

|            |                                                    |               |                |
|------------|----------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(20MHz QPSK)<br>RB Size 50 & RB Offset 0 | Test Channel: | Lowest channel |
|------------|----------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:42:10

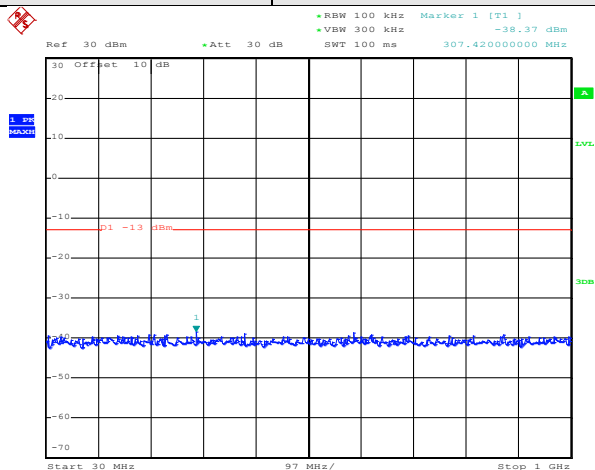
30MHz~1GHz



Date: 19.MAR.2017 20:05:33

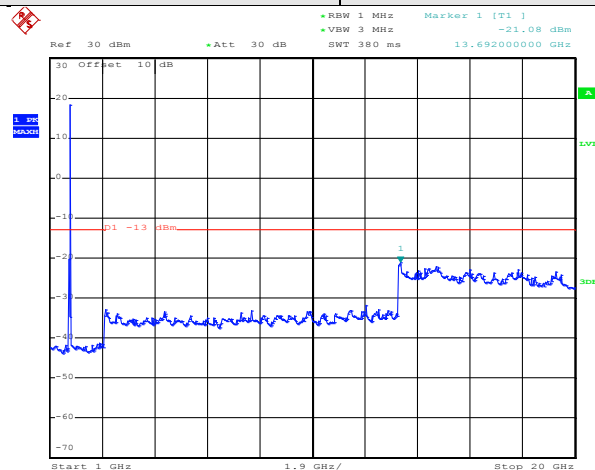
1GHz~25GHz

|            |                                                    |               |                |
|------------|----------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(20MHz QPSK)<br>RB Size 50 & RB Offset 0 | Test Channel: | Middle channel |
|------------|----------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:42:47

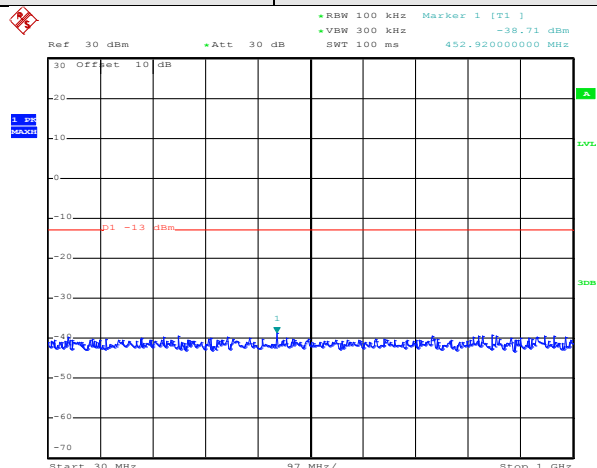
30MHz~1GHz



Date: 19.MAR.2017 20:06:37

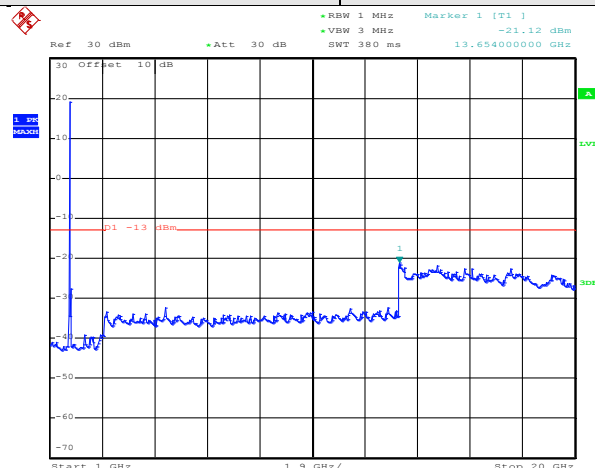
1GHz~25GHz

|            |                                                    |               |                 |
|------------|----------------------------------------------------|---------------|-----------------|
| Test Mode: | LTE band 4(20MHz QPSK)<br>RB Size 50 & RB Offset 0 | Test Channel: | Highest channel |
|------------|----------------------------------------------------|---------------|-----------------|



Date: 19.MAR.2017 19:43:18

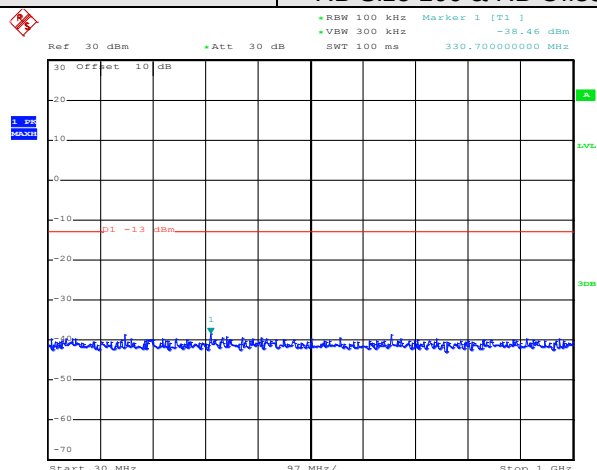
30MHz~1GHz



Date: 19.MAR.2017 20:07:36

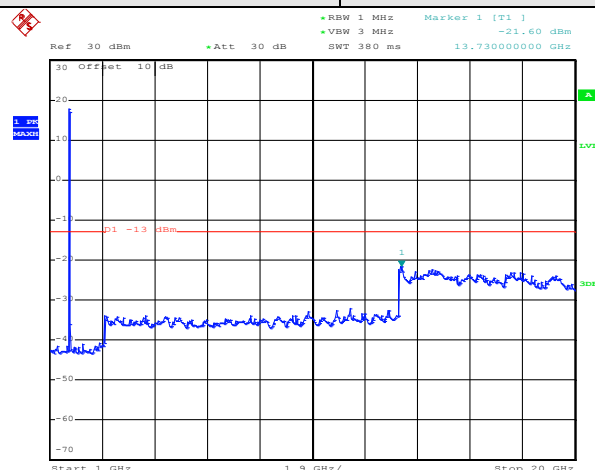
1GHz~25GHz

|            |                                                     |               |                |
|------------|-----------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(20MHz QPSK)<br>RB Size 100 & RB Offset 0 | Test Channel: | Lowest channel |
|------------|-----------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:42:22

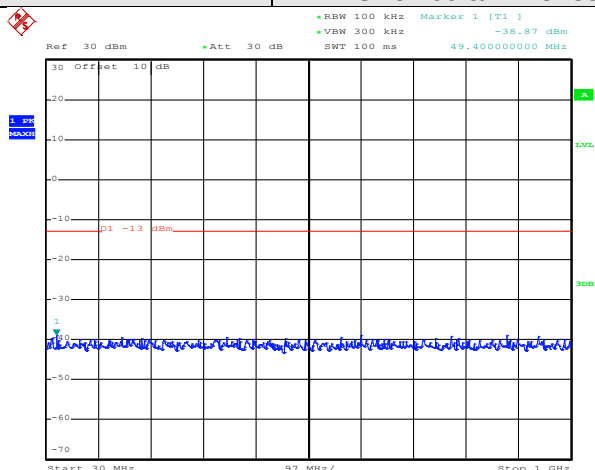
30MHz~1GHz



Date: 19.MAR.2017 20:05:51

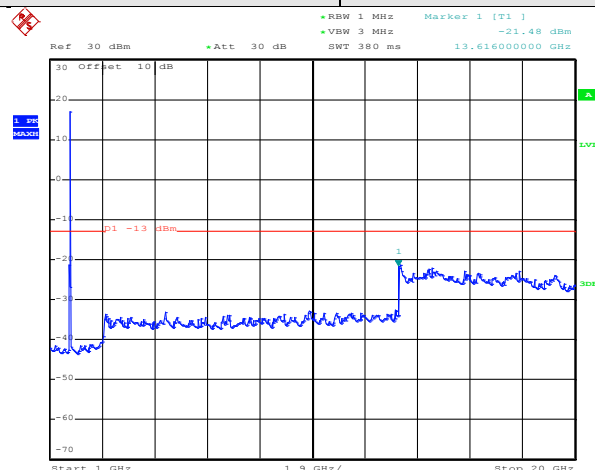
1GHz~25GHz

|            |                                                     |               |                |
|------------|-----------------------------------------------------|---------------|----------------|
| Test Mode: | LTE band 4(20MHz QPSK)<br>RB Size 100 & RB Offset 0 | Test Channel: | Middle channel |
|------------|-----------------------------------------------------|---------------|----------------|



Date: 19.MAR.2017 19:42:57

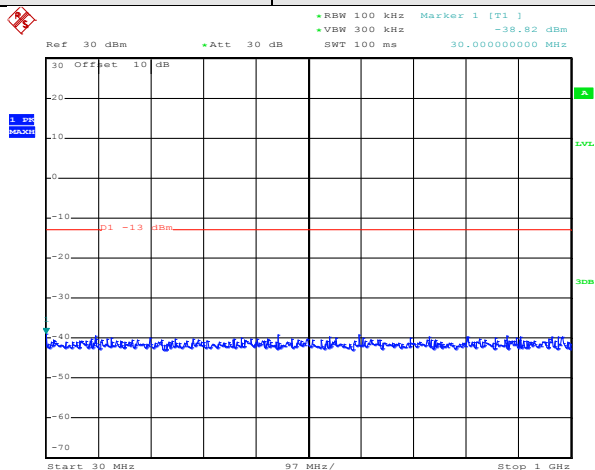
30MHz~1GHz



Date: 19.MAR.2017 20:06:53

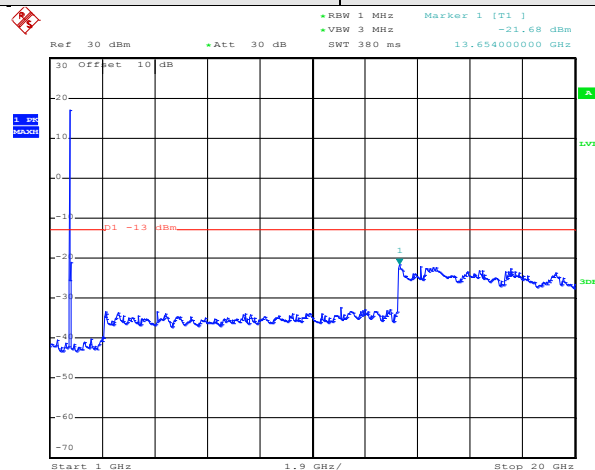
1GHz~25GHz

|            |                                                     |               |                 |
|------------|-----------------------------------------------------|---------------|-----------------|
| Test Mode: | LTE band 4(20MHz QPSK)<br>RB Size 100 & RB Offset 0 | Test Channel: | Highest channel |
|------------|-----------------------------------------------------|---------------|-----------------|



Date: 19.MAR.2017 19:43:27

30MHz~1GHz



Date: 19.MAR.2017 20:07:56

1GHz~25GHz