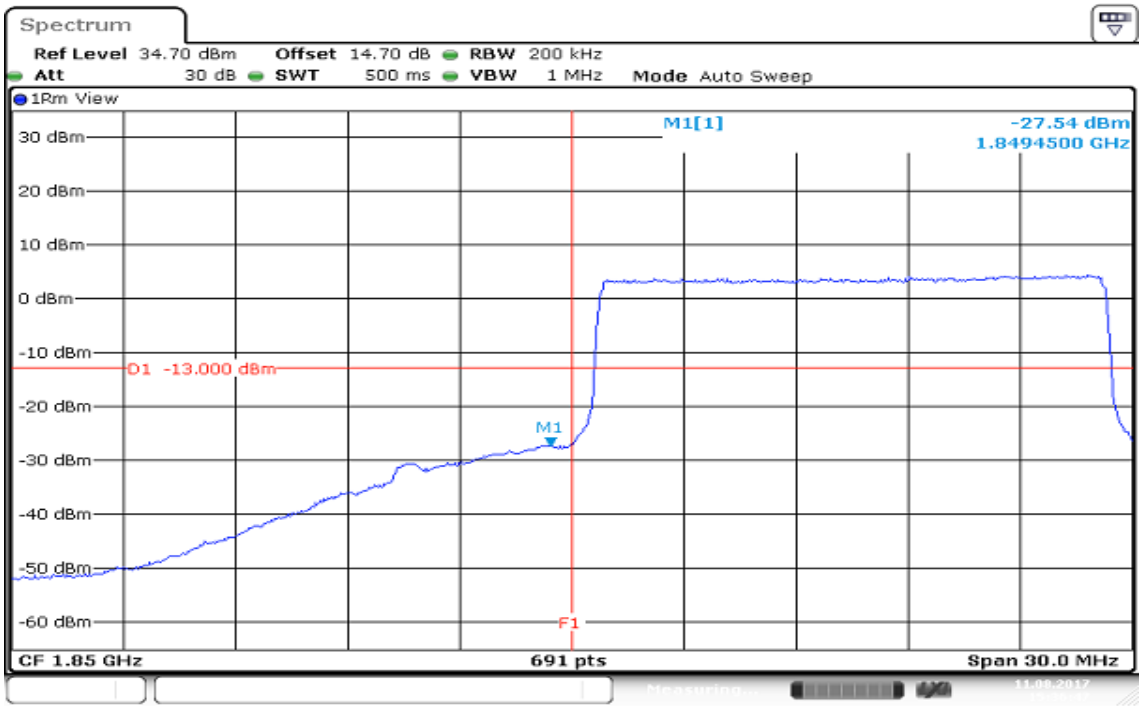
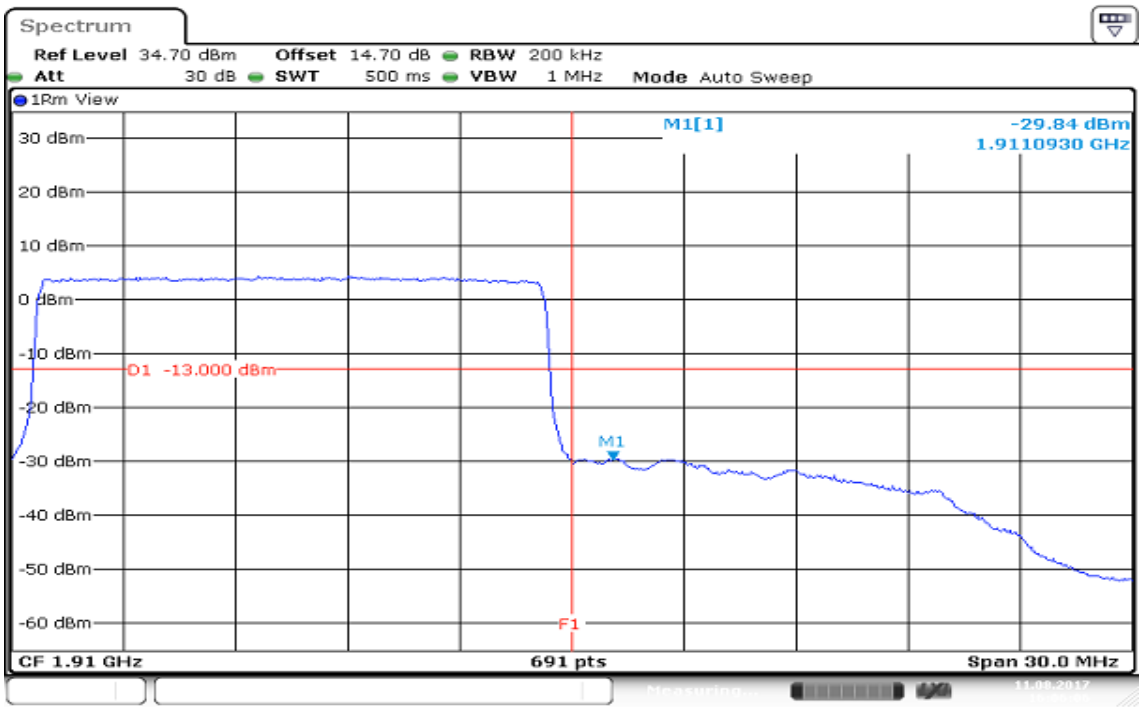
## CHANNEL BANDWIDTH: 15MHz / QPSK / 100% RB ALLOCATED

## LOWER BAND EDGE




Date: 11.AUG.2017 15:26:48

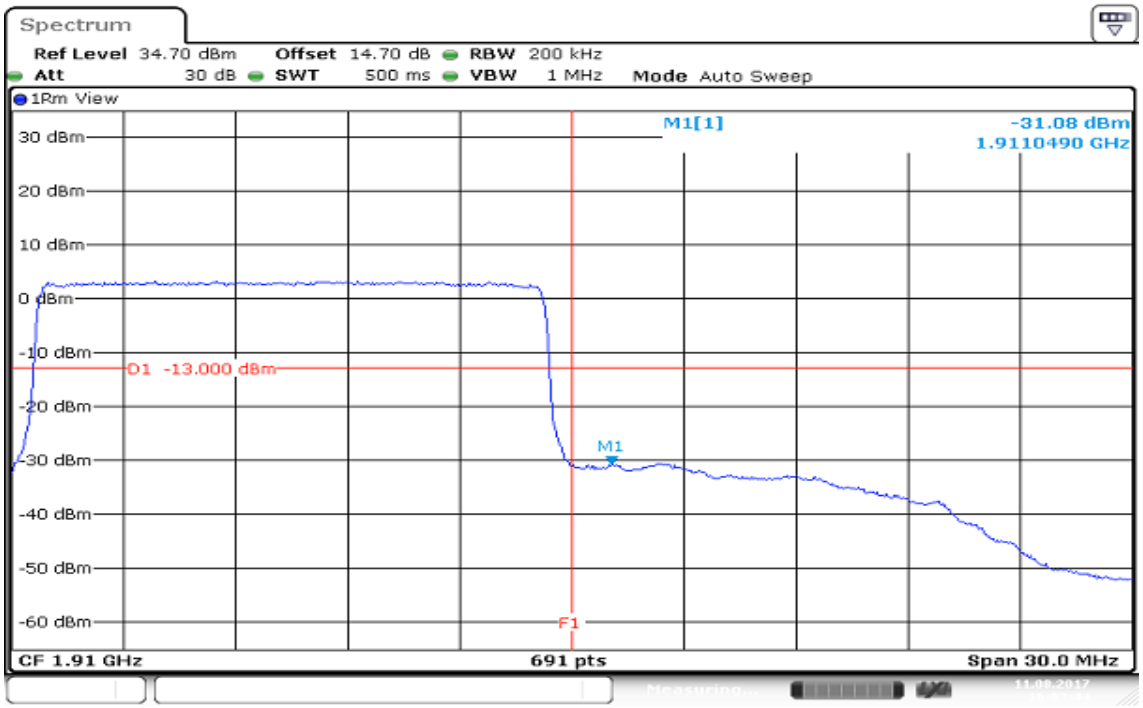
## HIGHER BAND EDGE




Date: 11.AUG.2017 16:06:06

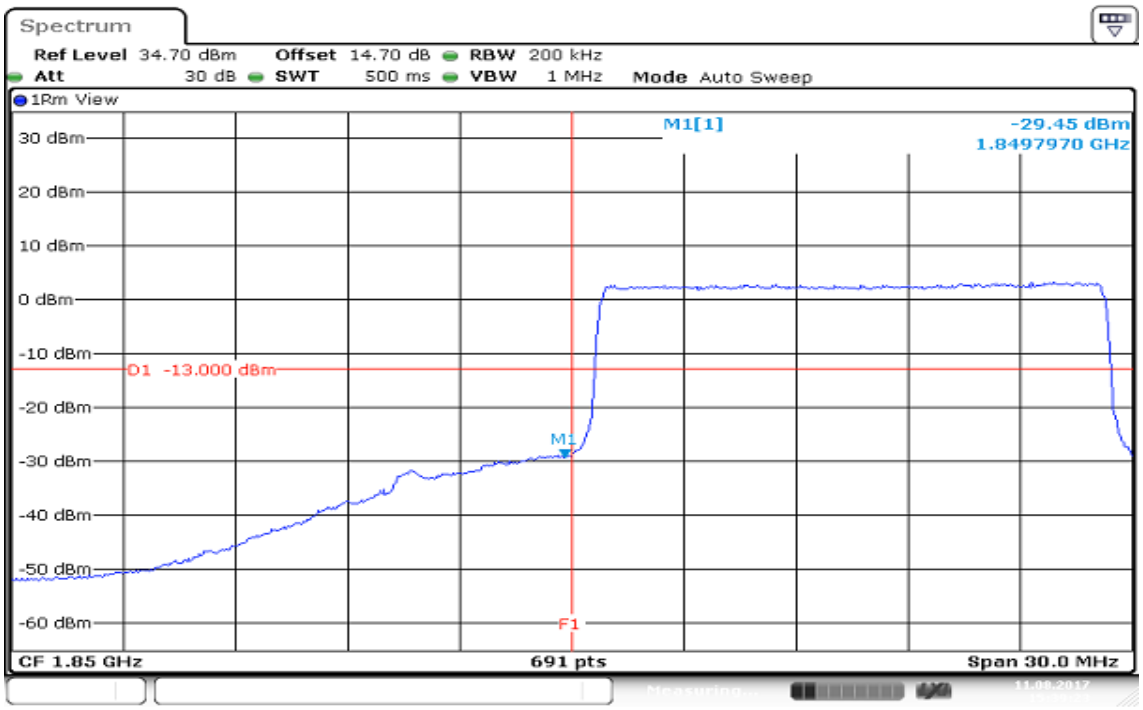
## CHANNEL BANDWIDTH: 15 MHz / 16QAM / 100% RB ALLOCATED

## LOWER BAND EDGE




Date: 11.AUG.2017 16:03:44

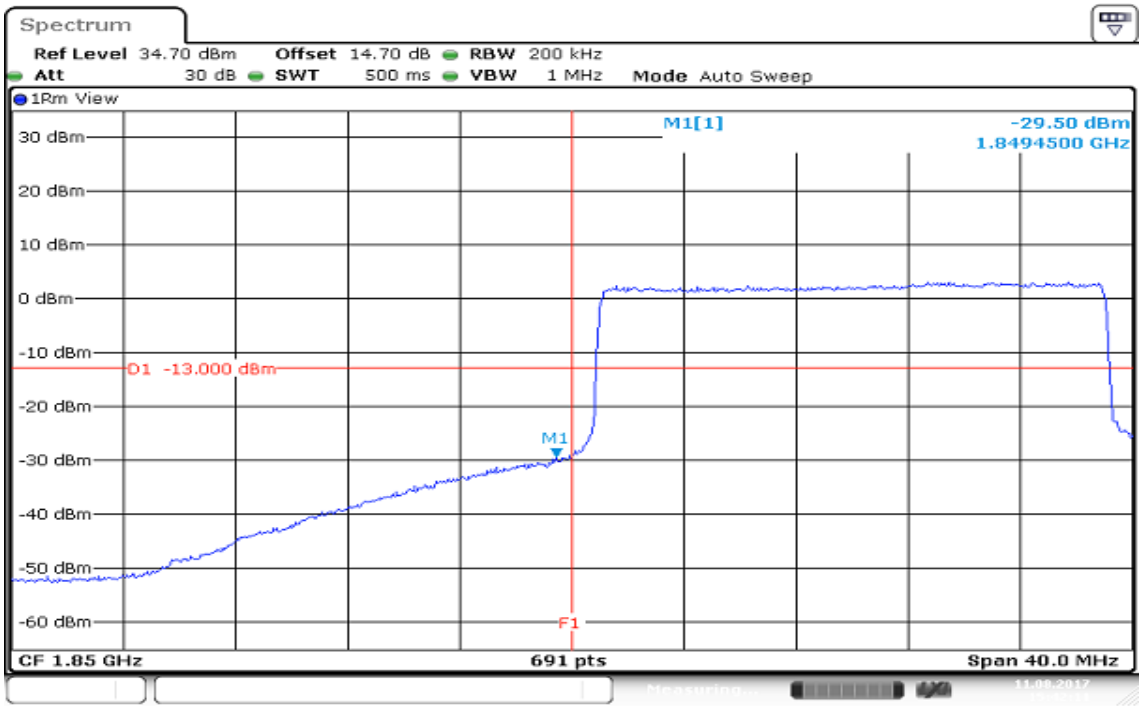
## HIGHER BAND EDGE




Date: 11.AUG.2017 15:39:24

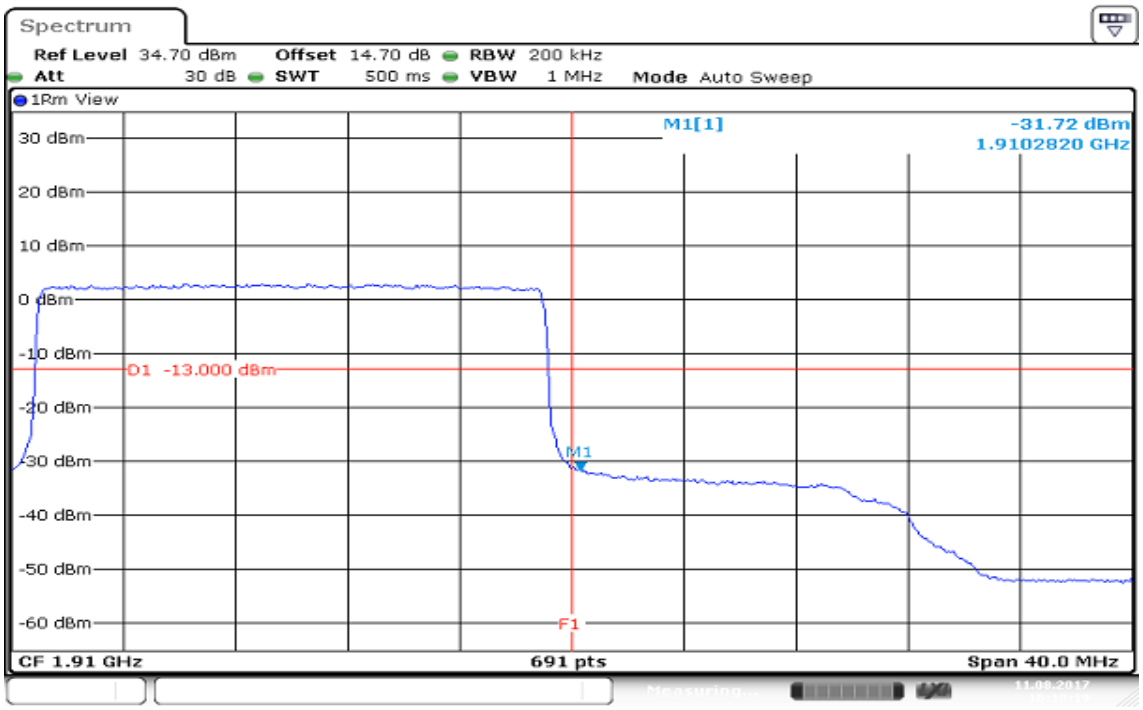
## CHANNEL BANDWIDTH: 20MHz / QPSK / 100% RB ALLOCATED

## LOWER BAND EDGE




Date: 11.AUG.2017 15:42:11

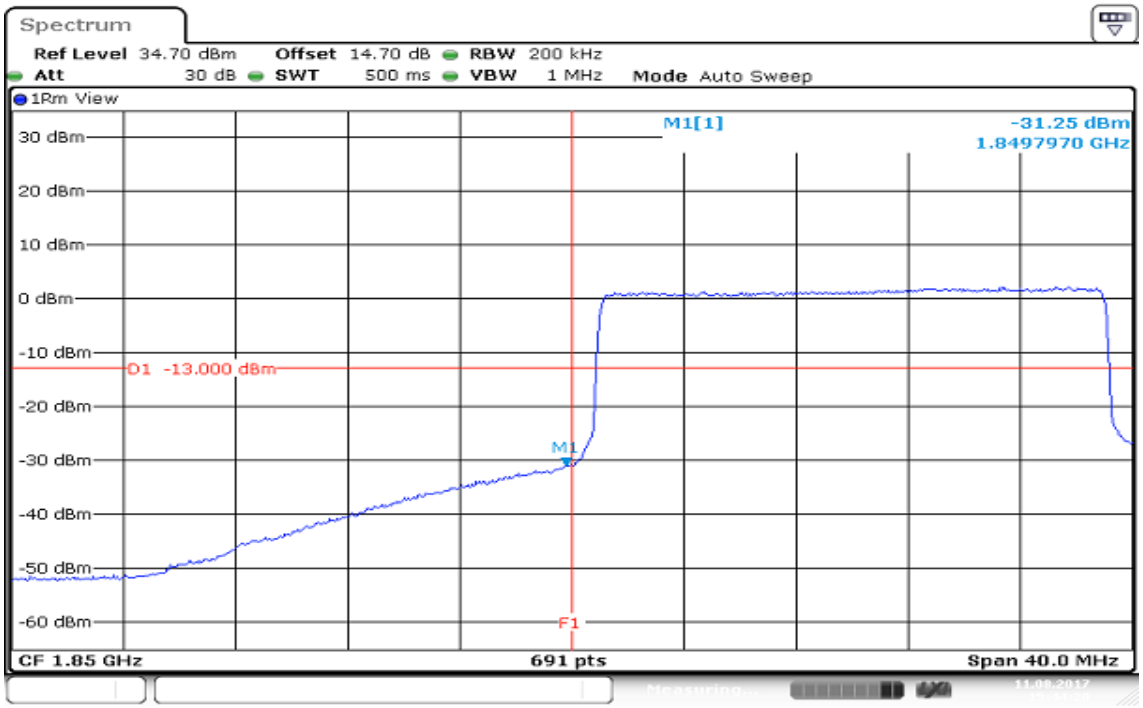
## HIGHER BAND EDGE




Date: 11.AUG.2017 16:10:20

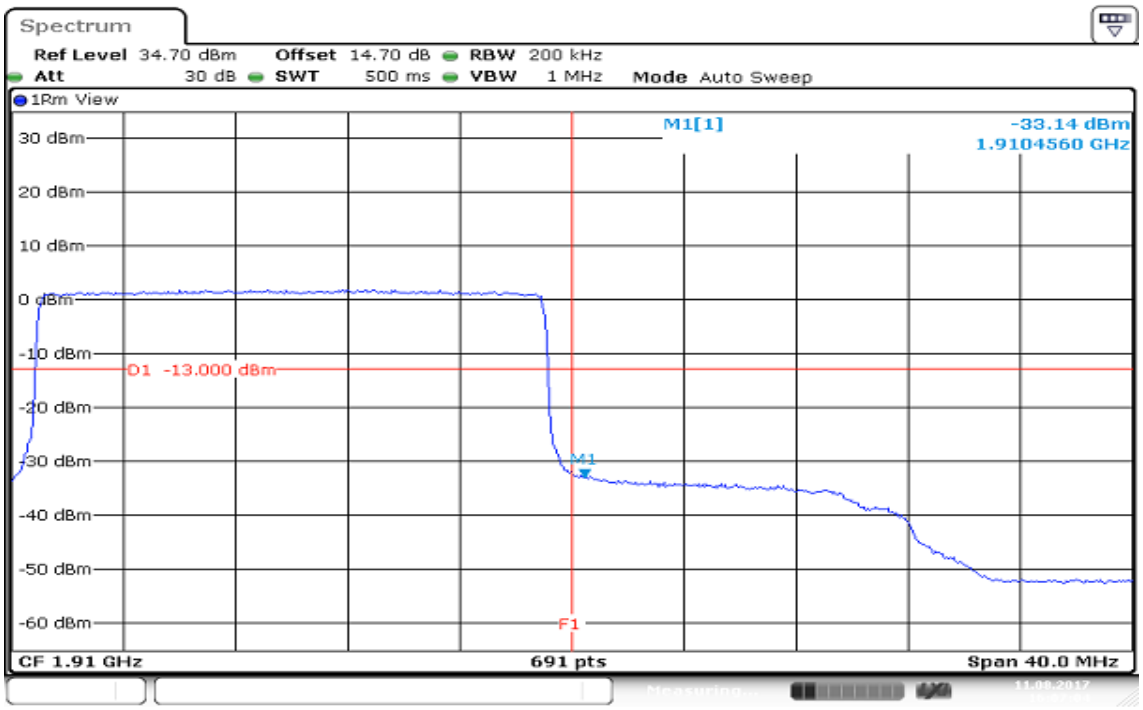
## CHANNEL BANDWIDTH: 20MHz / 16QAM / 100% RB ALLOCATED

## LOWER BAND EDGE




Date: 11.AUG.2017 15:44:20

## HIGHER BAND EDGE

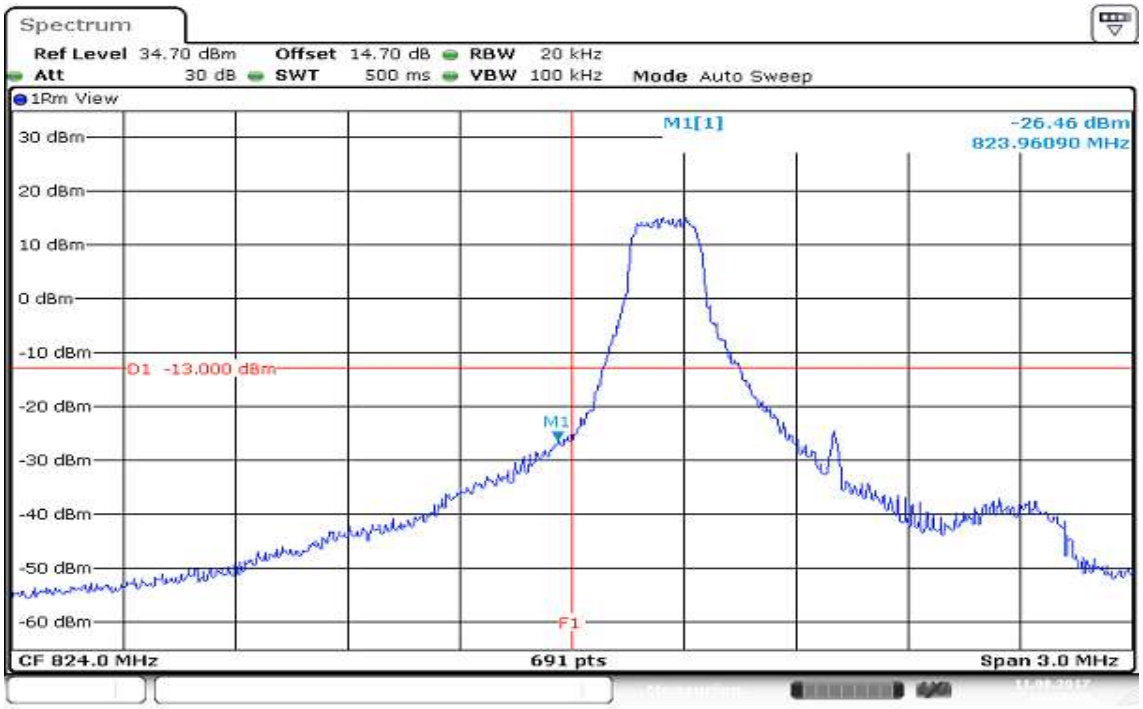



Date: 11.AUG.2017 16:07:05

# LTE Band 5

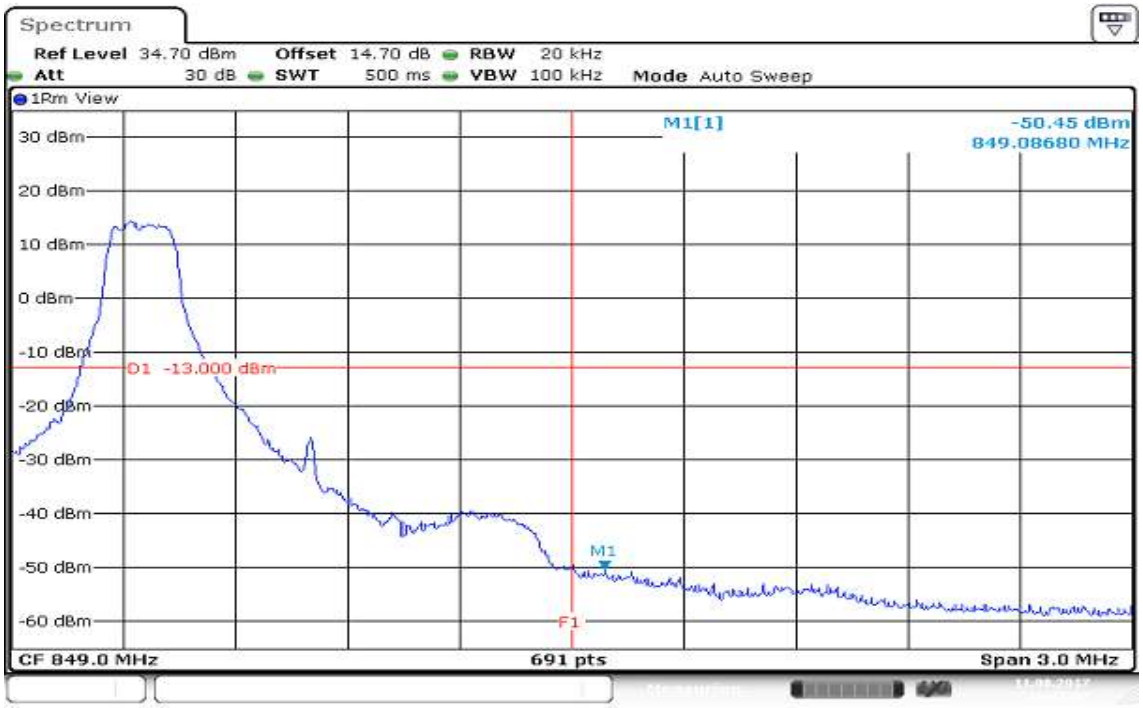
## CHANNEL BANDWIDTH: 1.4MHz / QPSK / 1 RB ALLOCATED

## LOWER BAND EDGE




Date: 11.AUG.2017 16:24:29

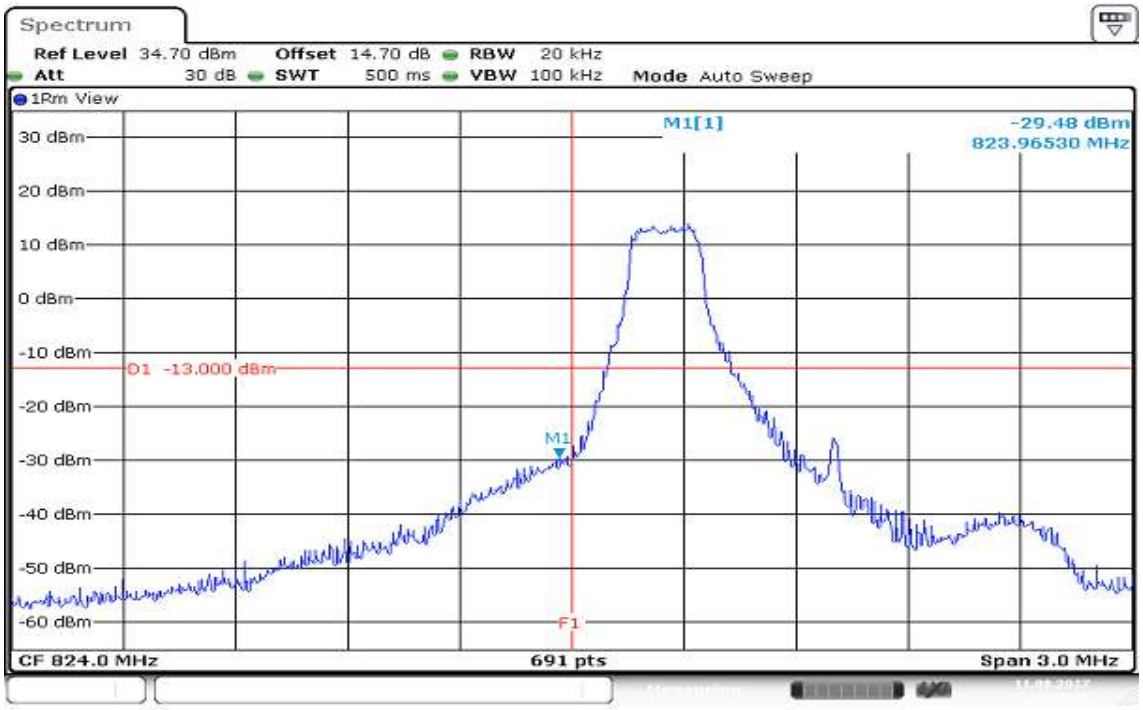
## HIGHER BAND EDGE




Date: 11.AUG.2017 16:41:07

## CHANNEL BANDWIDTH: 1.4MHz / 16QAM / 1 RB ALLOCATED

## LOWER BAND EDGE



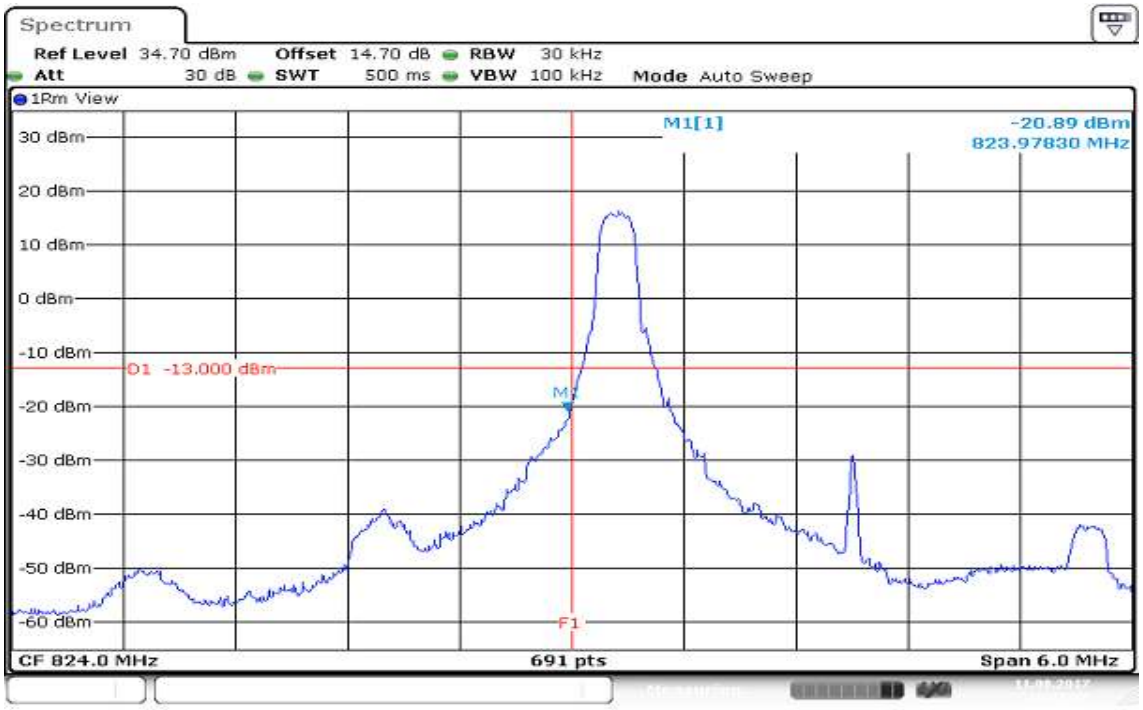

Date: 11.AUG.2017 16:20:47

## HIGHER BAND EDGE


Date: 11.AUG.2017 16:43:23

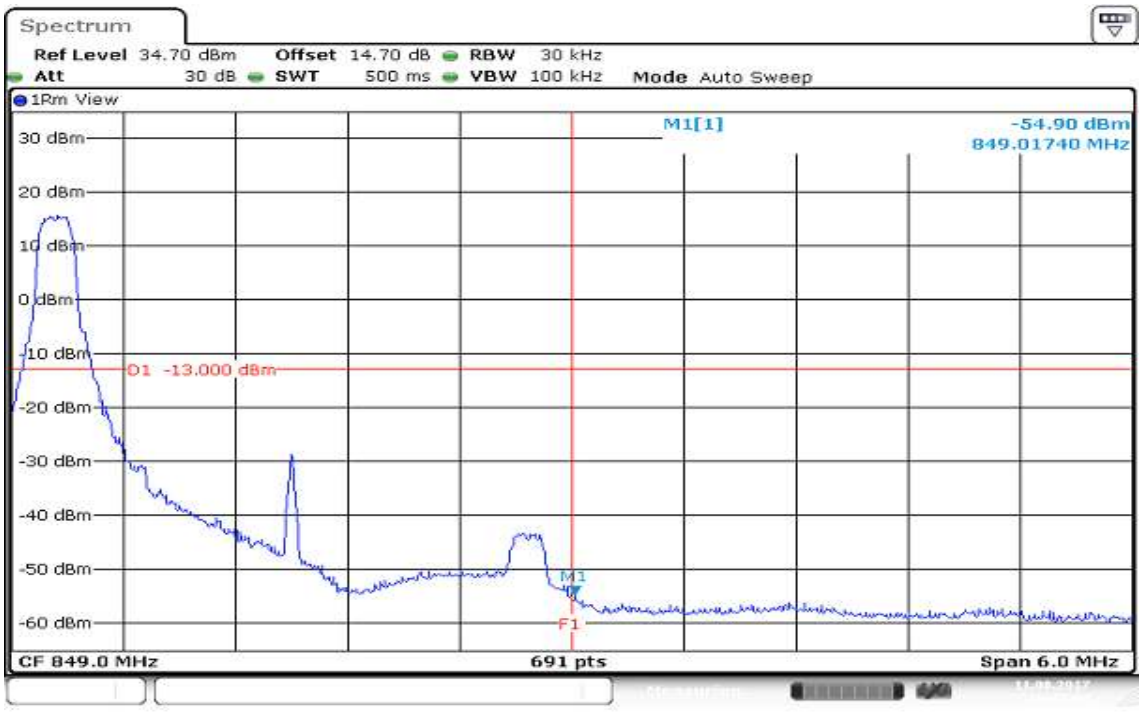
## CHANNEL BANDWIDTH: 3MHz / QPSK / 1 RB ALLOCATED

## LOWER BAND EDGE




Date: 11.AUG.2017 16:29:18

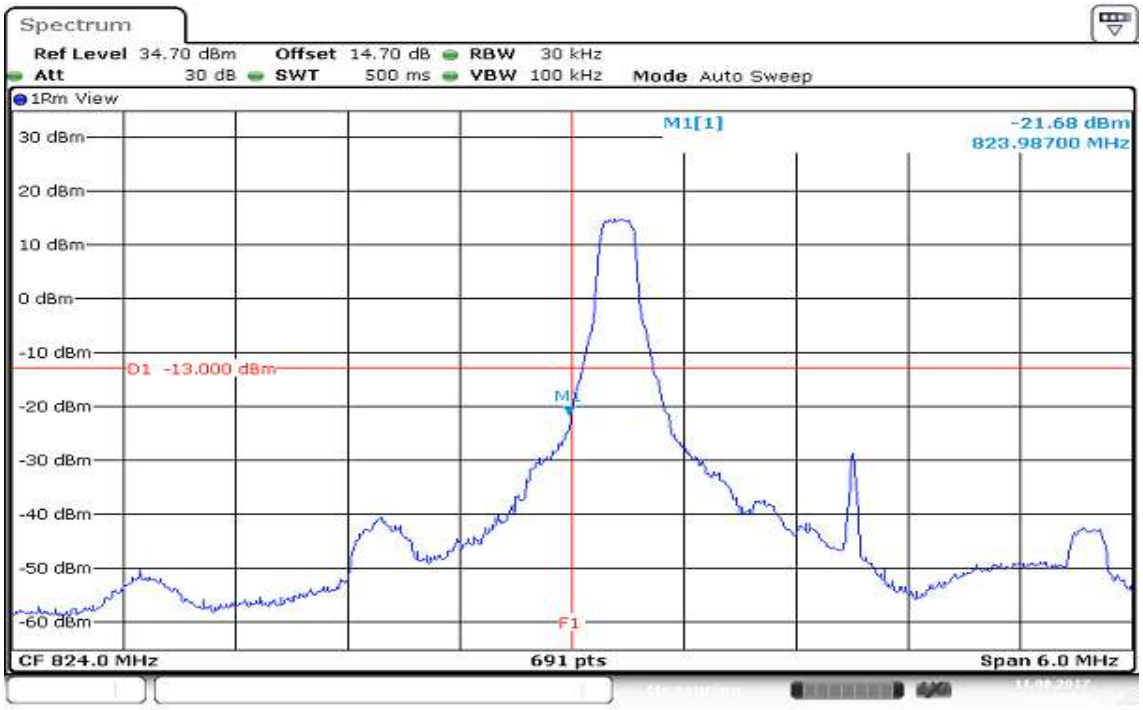
## HIGHER BAND EDGE




Date: 11.AUG.2017 16:45:04

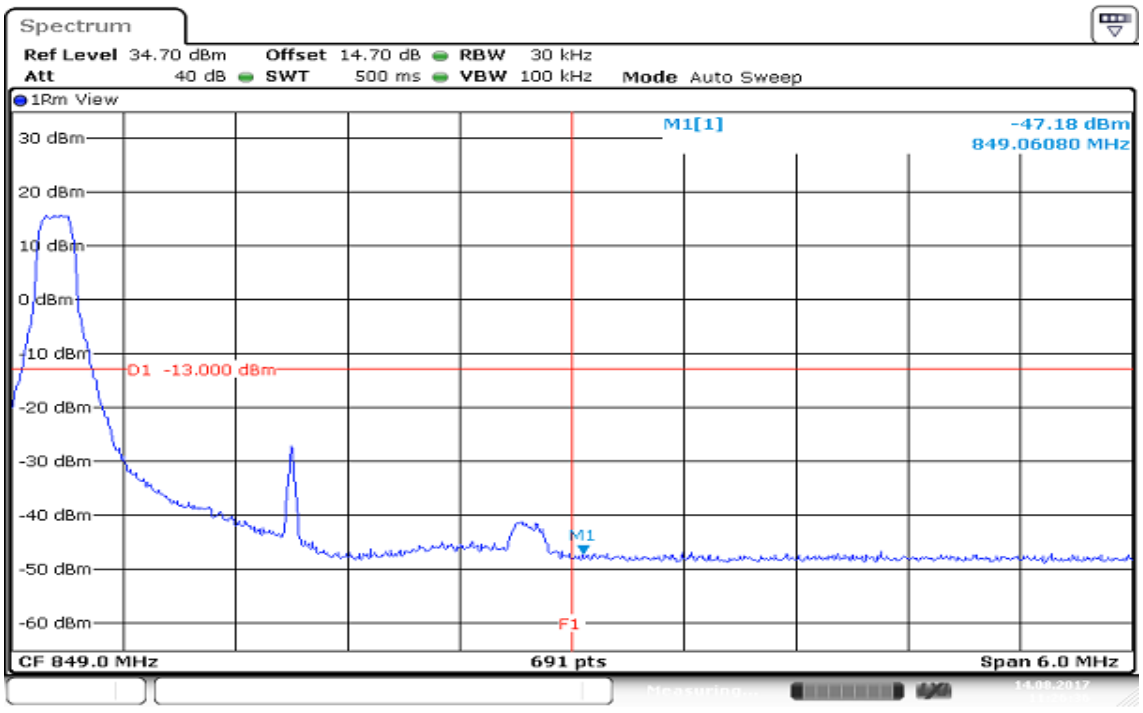
## CHANNEL BANDWIDTH: 3MHz / 16QAM / 1 RB ALLOCATED

## LOWER BAND EDGE




Date: 11.AUG.2017 16:26:59

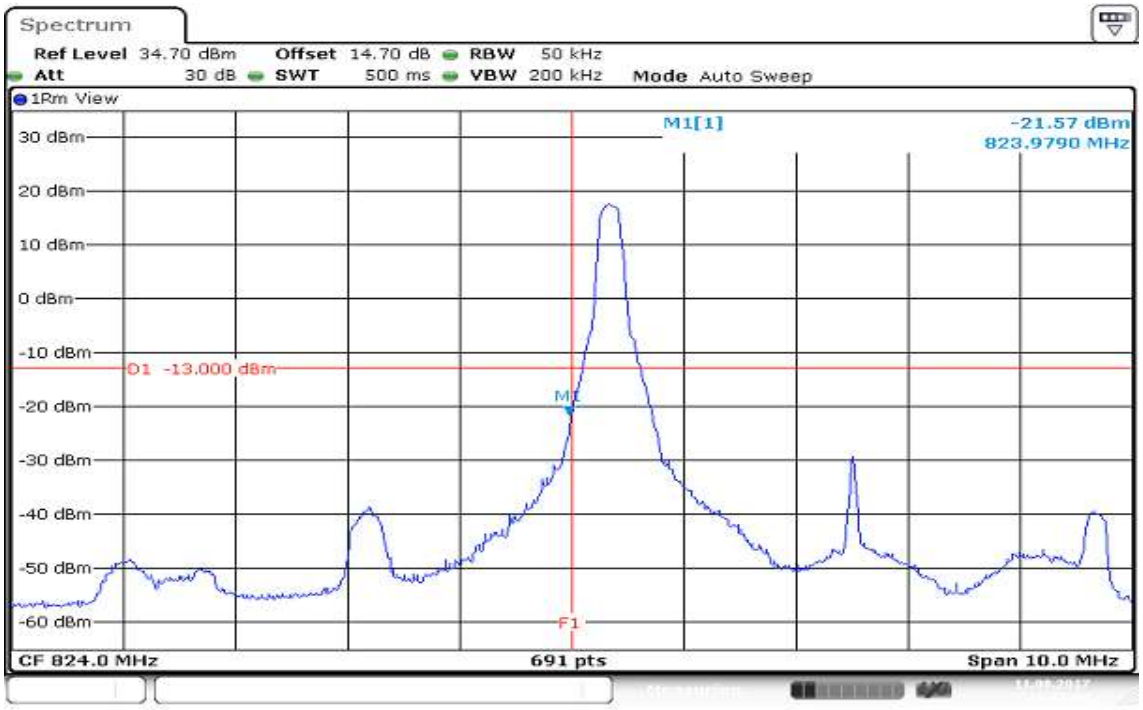
## HIGHER BAND EDGE




Date: 14.AUG.2017 11:26:36

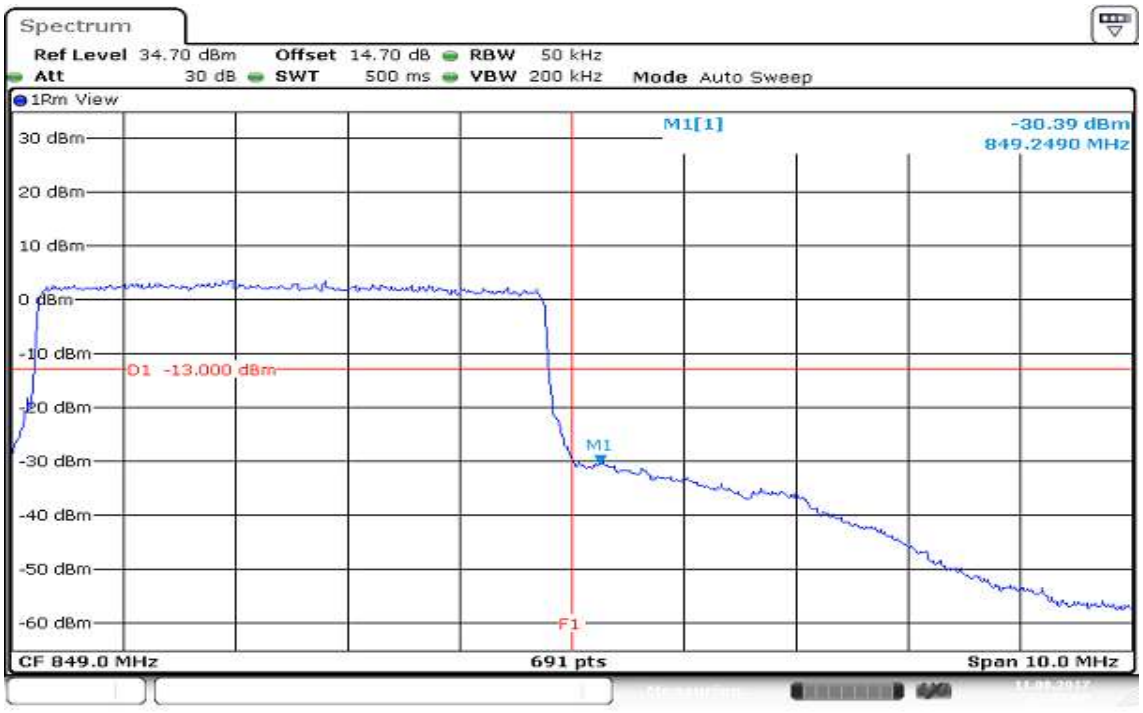
## CHANNEL BANDWIDTH: 5MHz / QPSK / 1 RB ALLOCATED

## LOWER BAND EDGE




Date: 11.AUG.2017 16:31:04

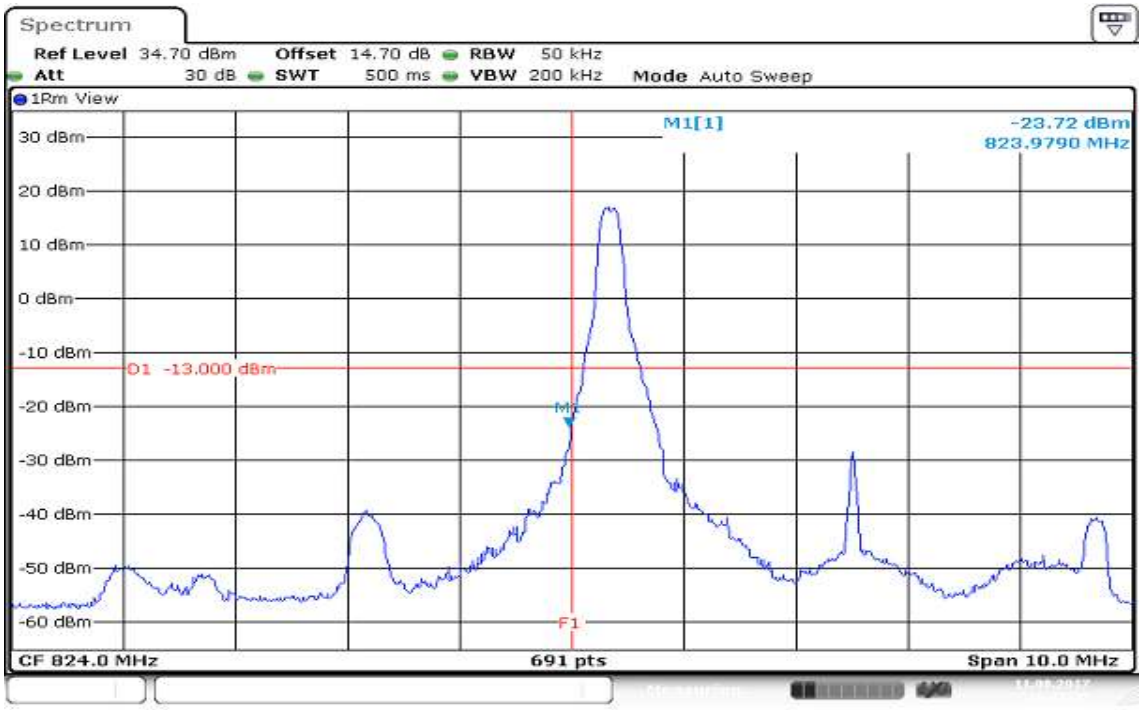
## HIGHER BAND EDGE




Date: 11.AUG.2017 17:03:00

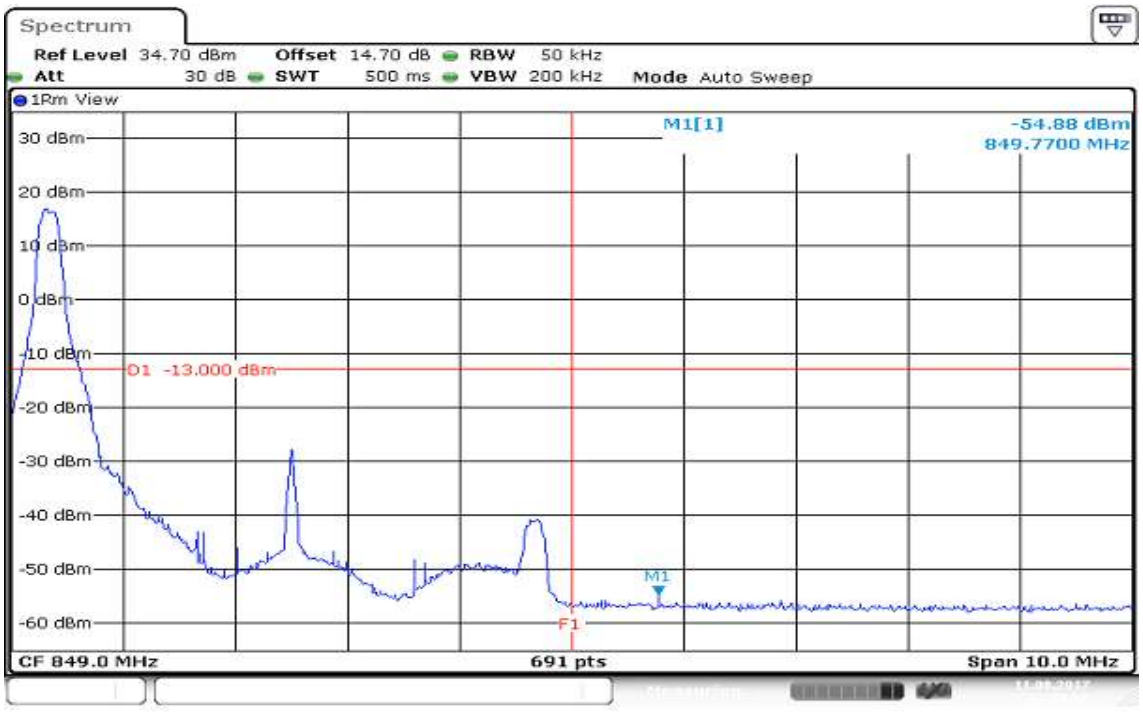
## CHANNEL BANDWIDTH: 5MHz / 16QAM / 1 RB ALLOCATED

## LOWER BAND EDGE




Date: 11.AUG.2017 16:33:35

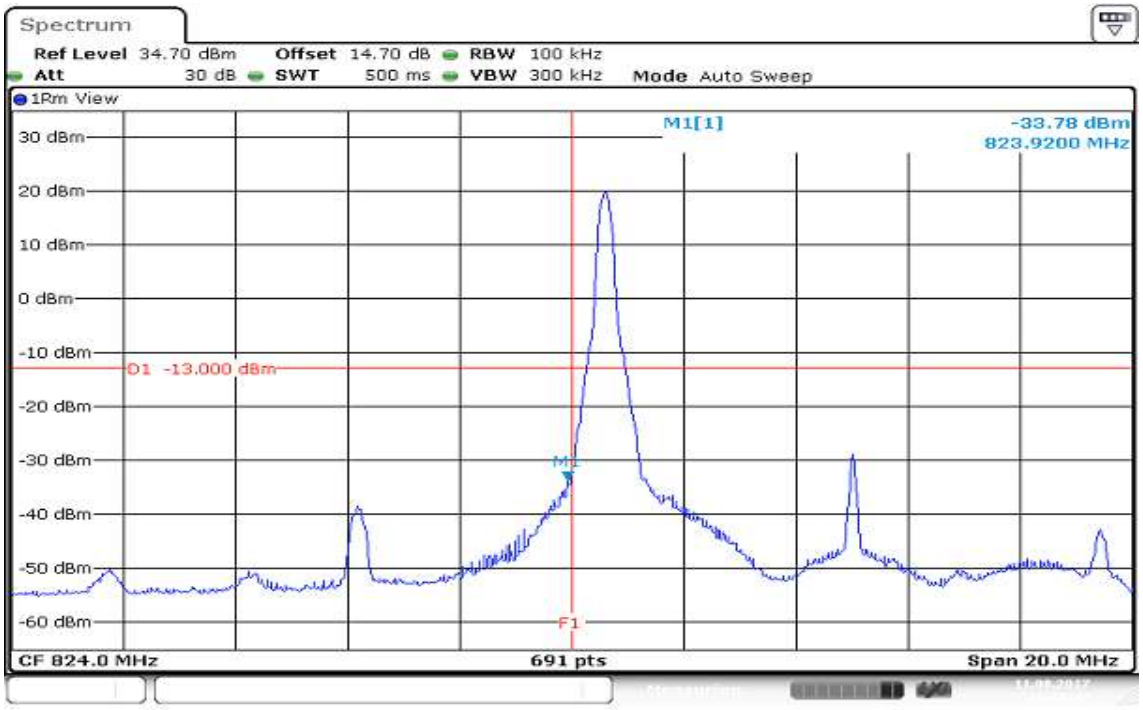
## HIGHER BAND EDGE




Date: 11.AUG.2017 17:00:57

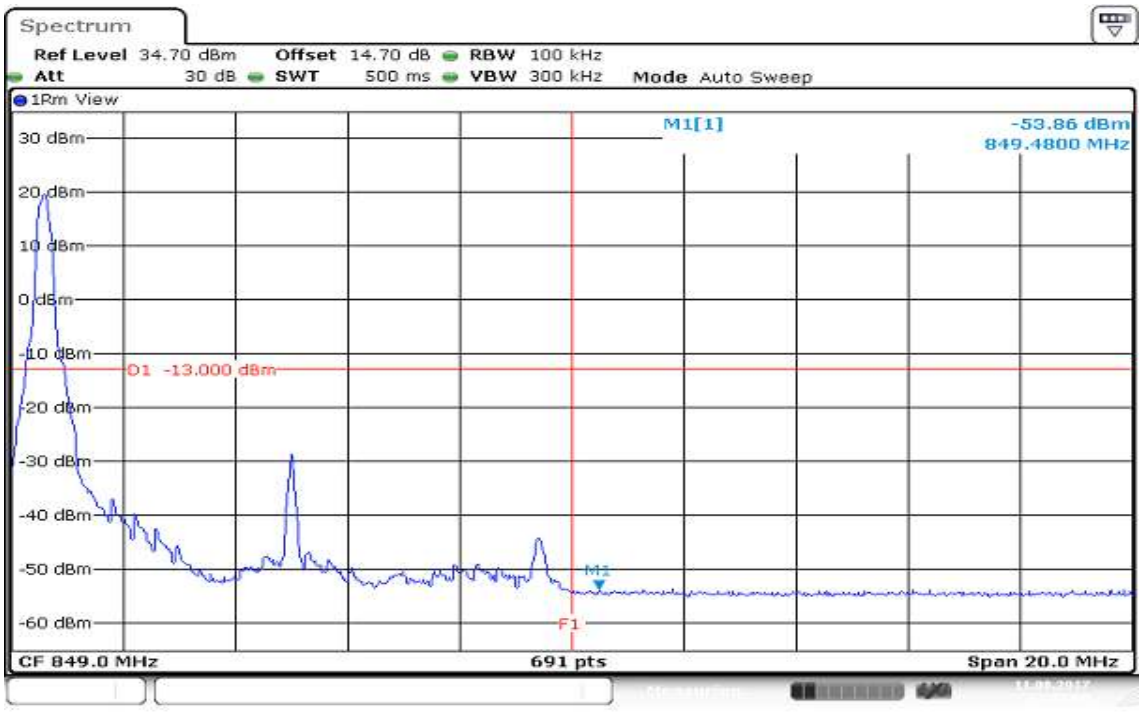
## CHANNEL BANDWIDTH: 10MHz / QPSK / 1 RB ALLOCATED

## LOWER BAND EDGE




Date: 11.AUG.2017 16:36:40

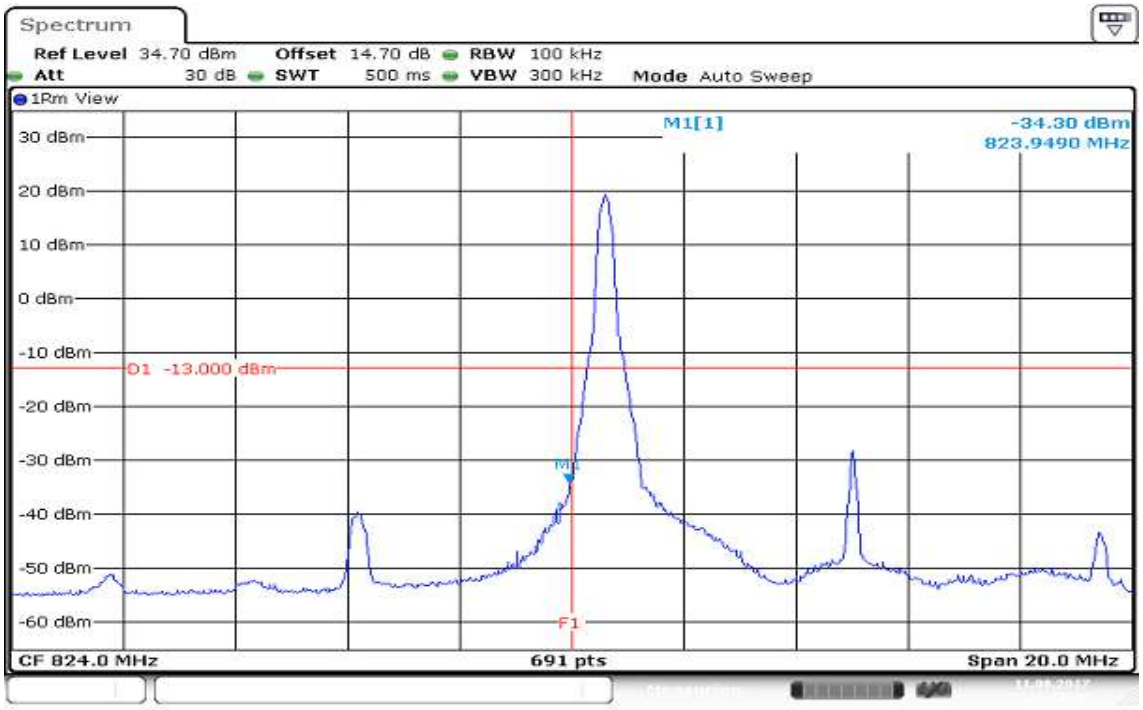
## HIGHER BAND EDGE




Date: 11.AUG.2017 17:05:09

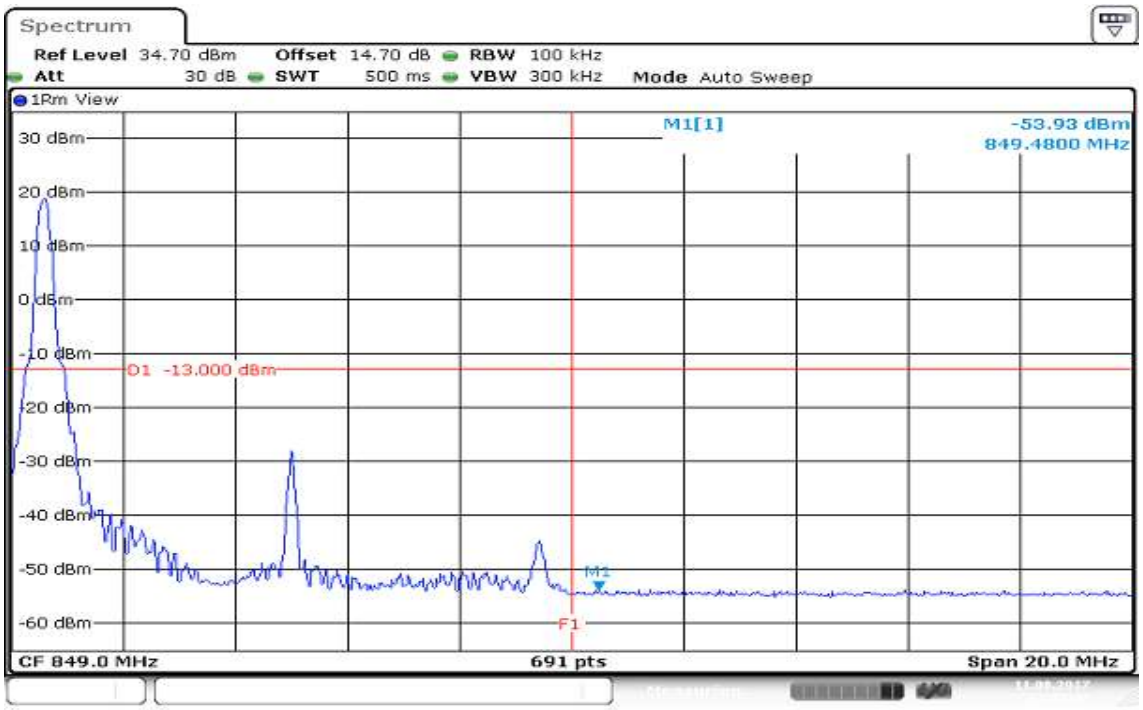
## CHANNEL BANDWIDTH: 10MHz / 16QAM / 1 RB ALLOCATED

## LOWER BAND EDGE




Date: 11.AUG.2017 16:35:48

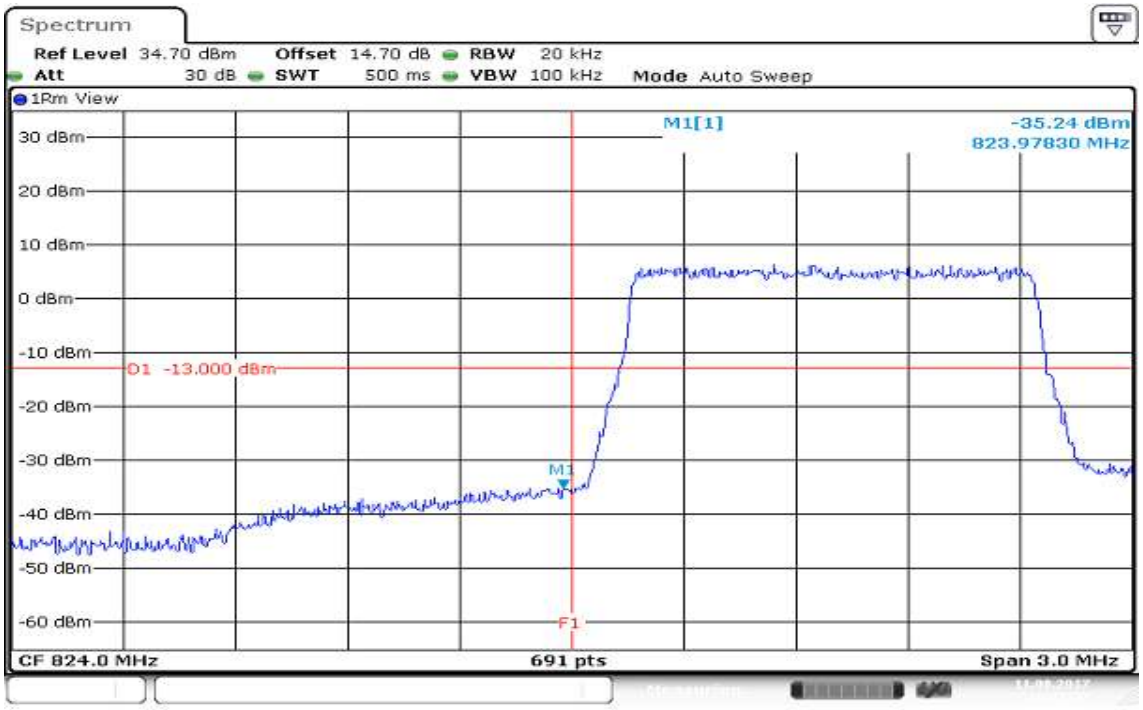
## HIGHER BAND EDGE




Date: 11.AUG.2017 17:05:44

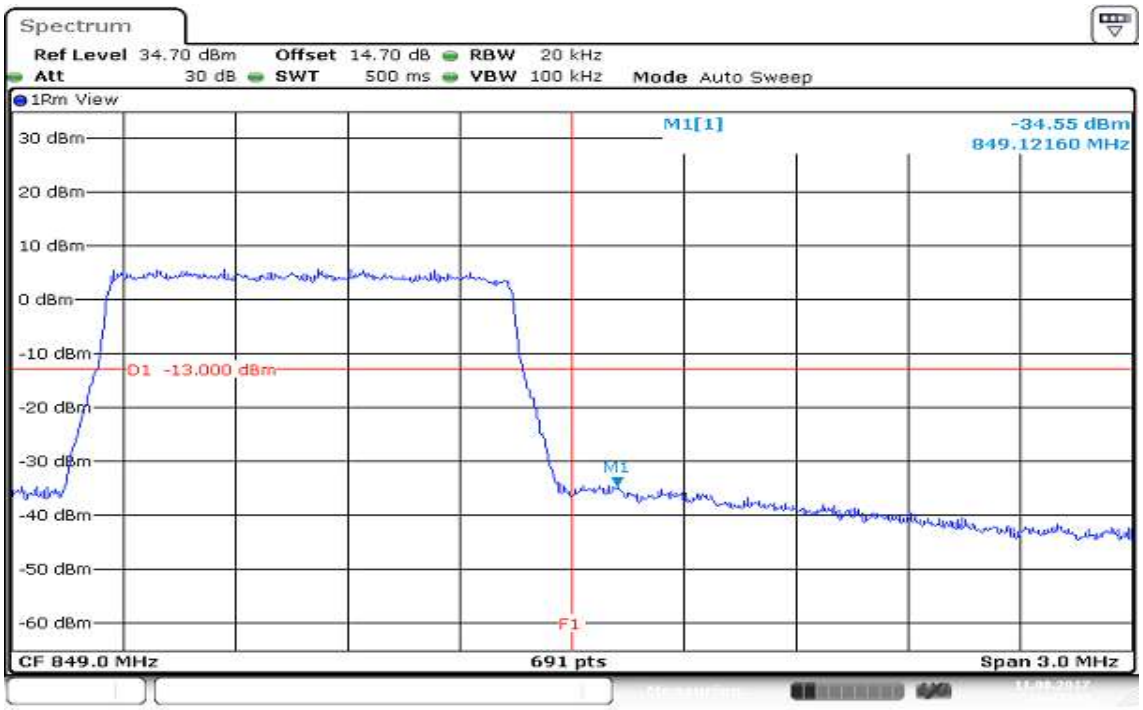
## CHANNEL BANDWIDTH: 1.4MHz / QPSK / 100% RB ALLOCATED

## LOWER BAND EDGE




Date: 11.AUG.2017 16:22:38

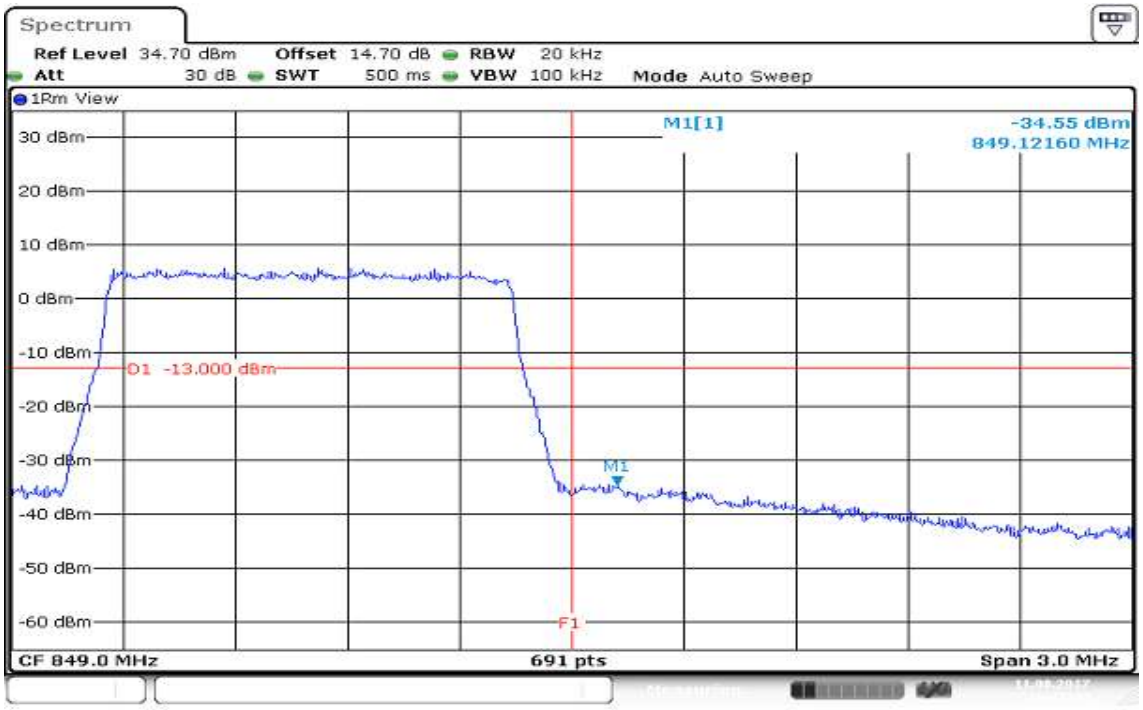
## HIGHER BAND EDGE




Date: 11.AUG.2017 16:41:49

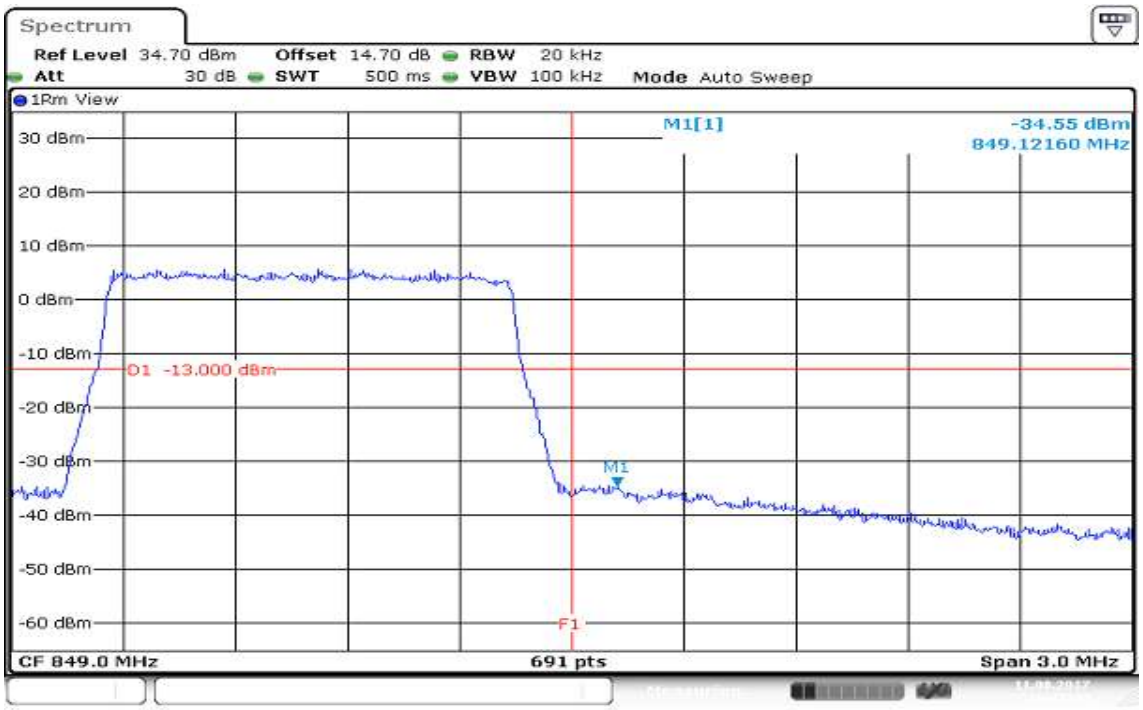
## CHANNEL BANDWIDTH: 1.4MHz / 16QAM / 100% RB ALLOCATED

## LOWER BAND EDGE




Date: 11.AUG.2017 16:41:49

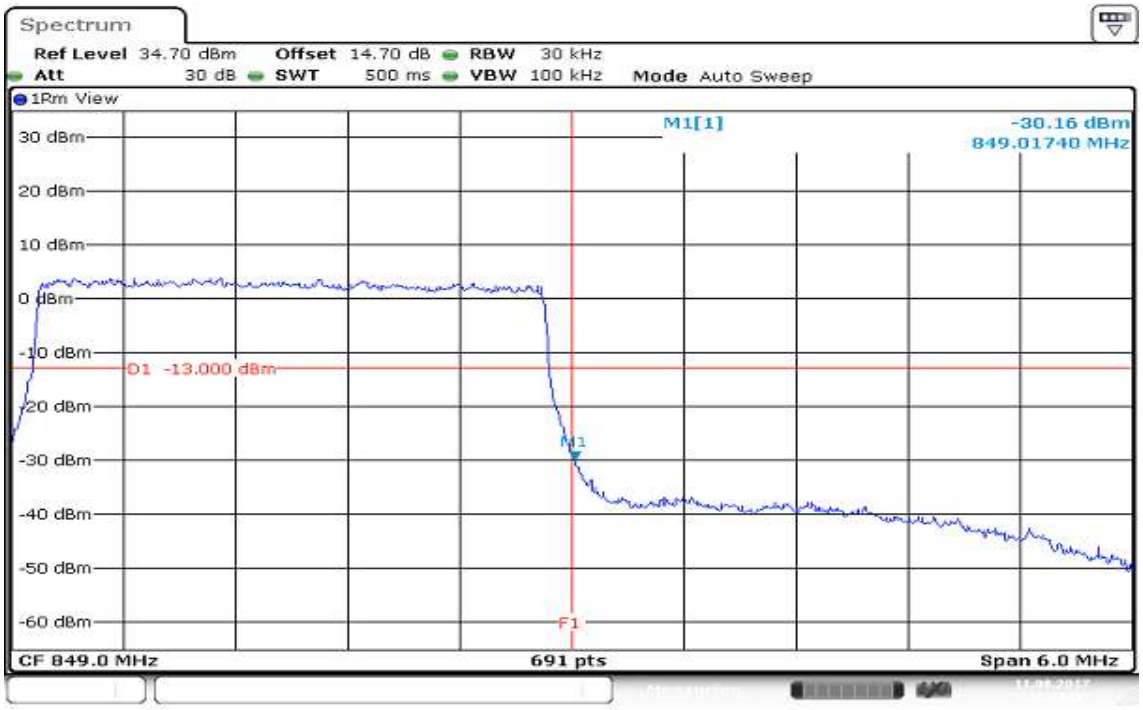
## HIGHER BAND EDGE




Date: 11.AUG.2017 16:41:49

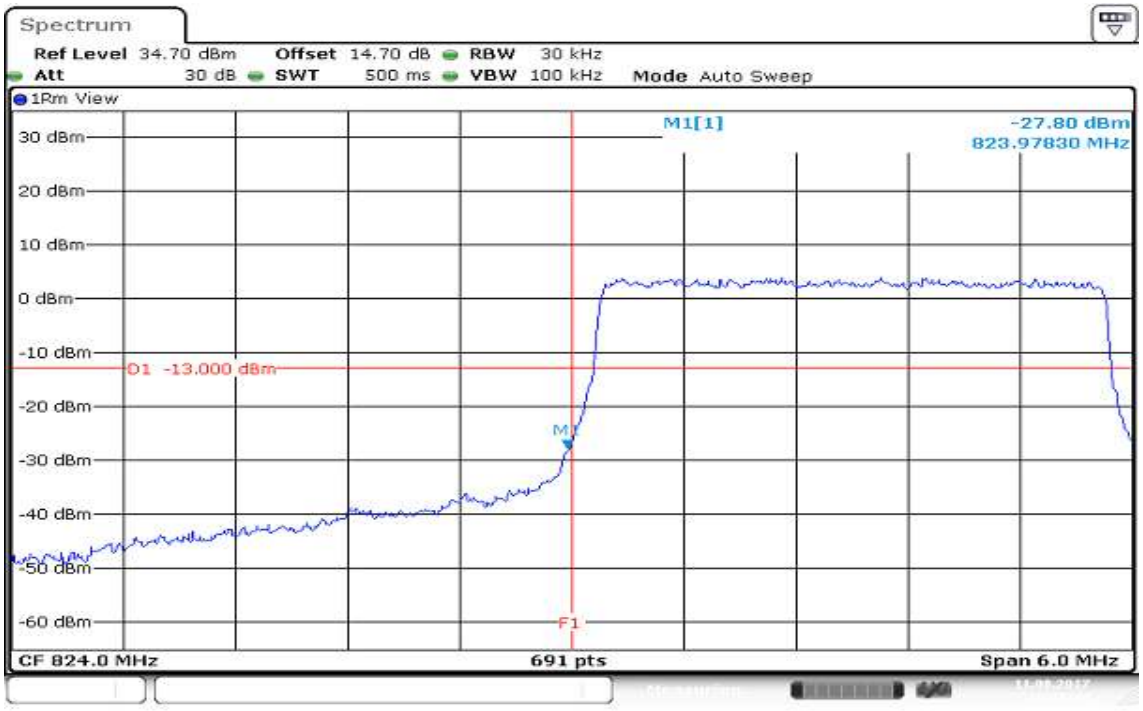
## CHANNEL BANDWIDTH: 3MHz / QPSK / 100% RB ALLOCATED

## LOWER BAND EDGE




Date: 11.AUG.2017 16:59:12

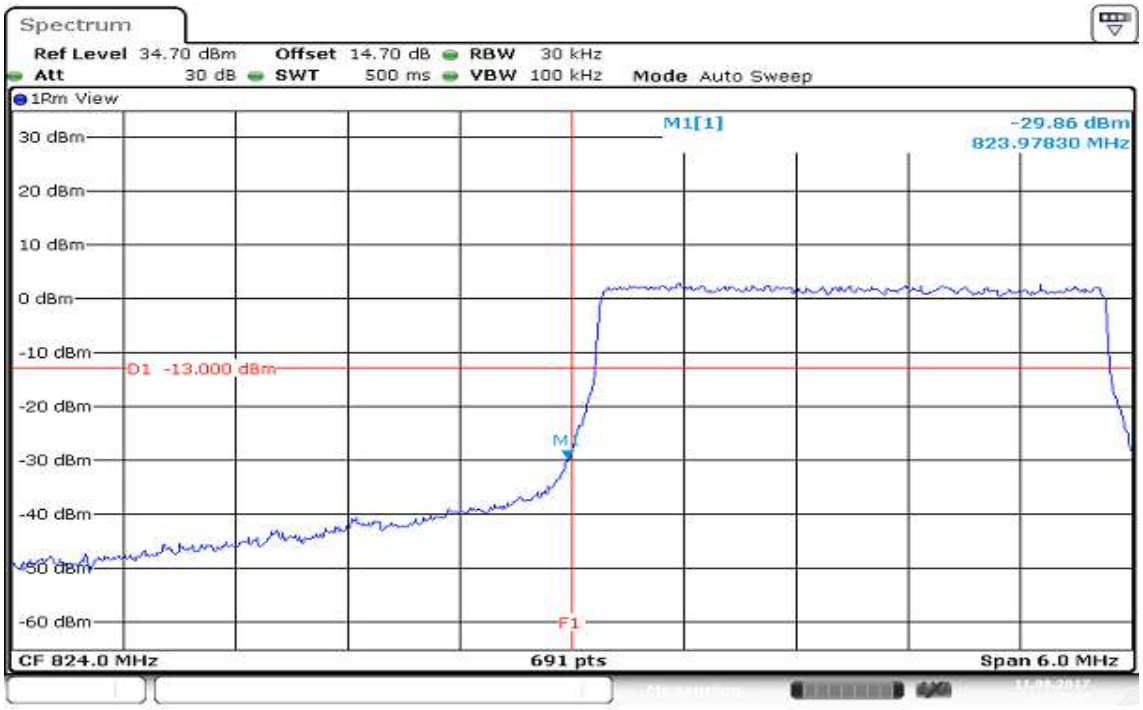
## HIGHER BAND EDGE




Date: 11.AUG.2017 16:28:15

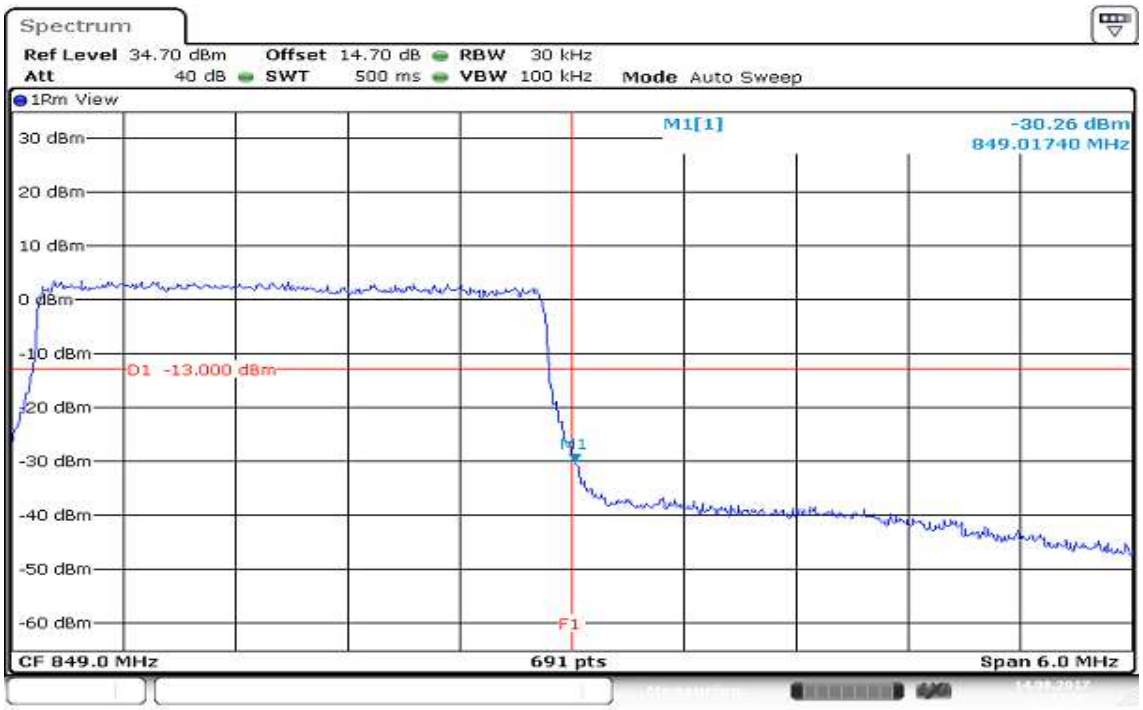
## CHANNEL BANDWIDTH: 3MHz / 16QAM / 100% RB ALLOCATED

## LOWER BAND EDGE




Date: 11.AUG.2017 16:27:40

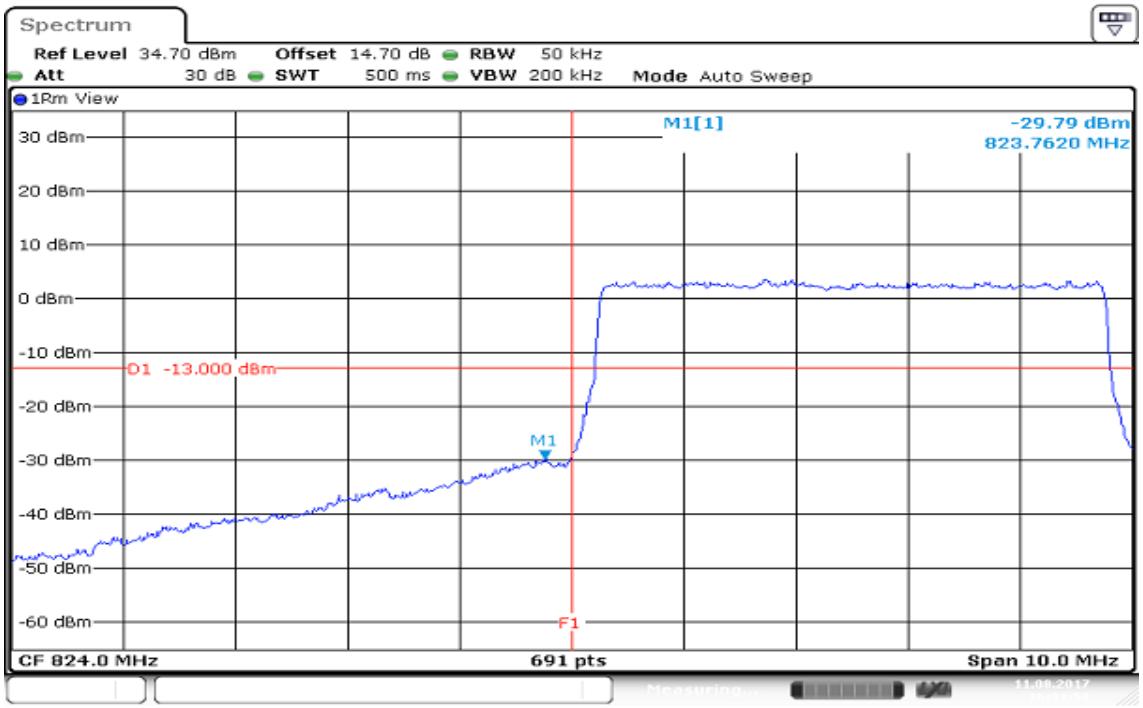
## HIGHER BAND EDGE




Date: 14.AUG.2017 11:27:39

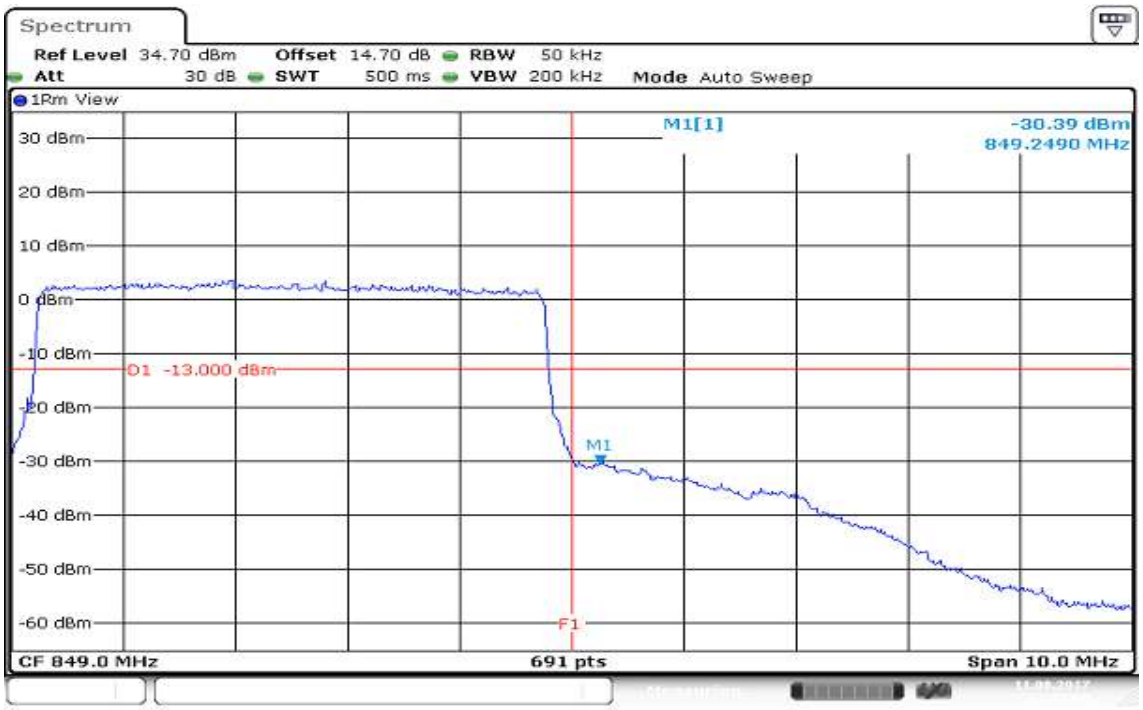
## CHANNEL BANDWIDTH: 5MHz / QPSK / 100% RB ALLOCATED

## LOWER BAND EDGE




Date: 11.AUG.2017 16:31:58

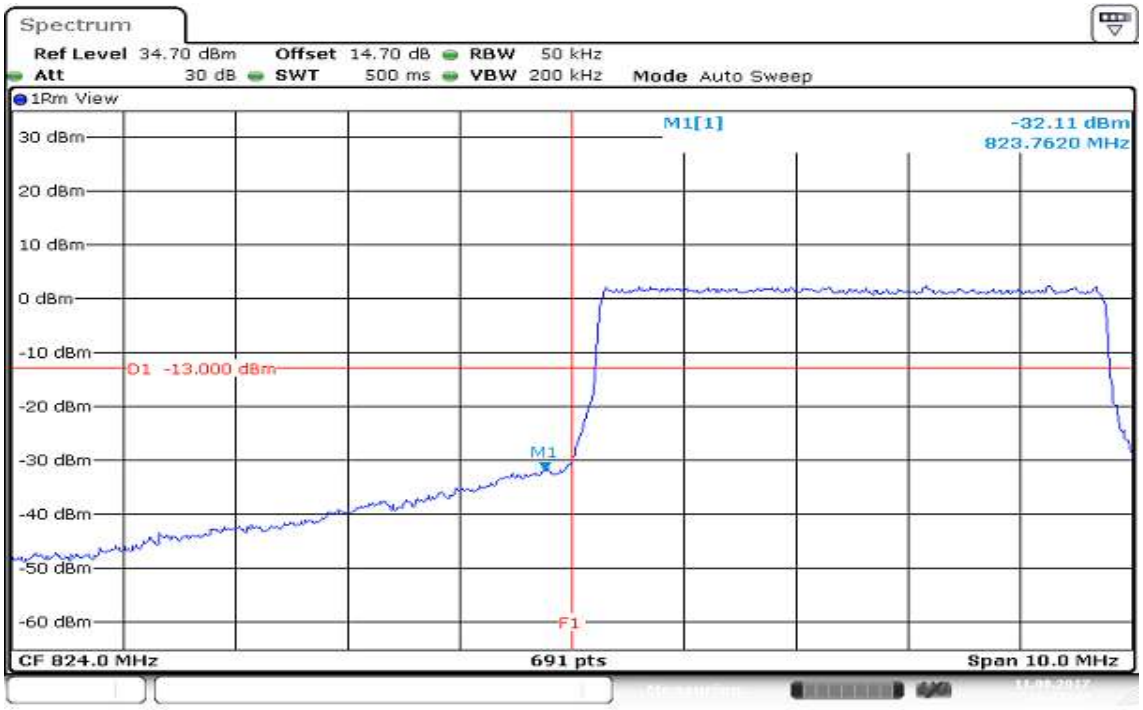
## HIGHER BAND EDGE




Date: 11.AUG.2017 17:02:09

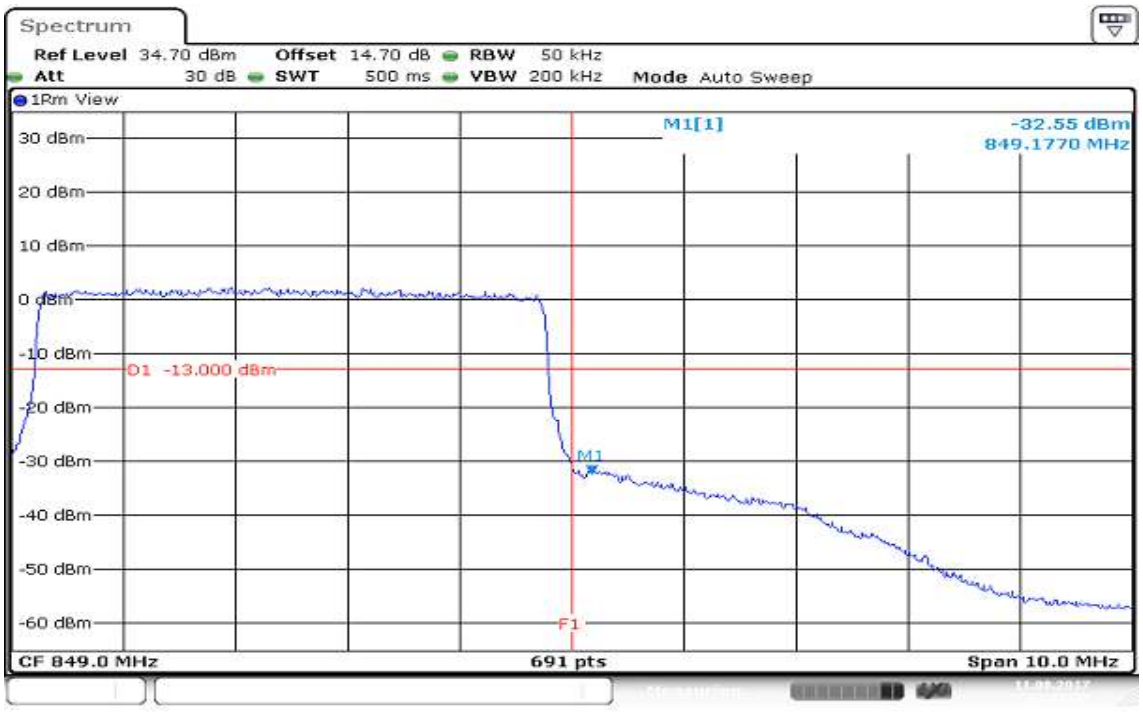
## CHANNEL BANDWIDTH: 5MHz / 16QAM / 100% RB ALLOCATED

## LOWER BAND EDGE




Date: 11.AUG.2017 16:32:40

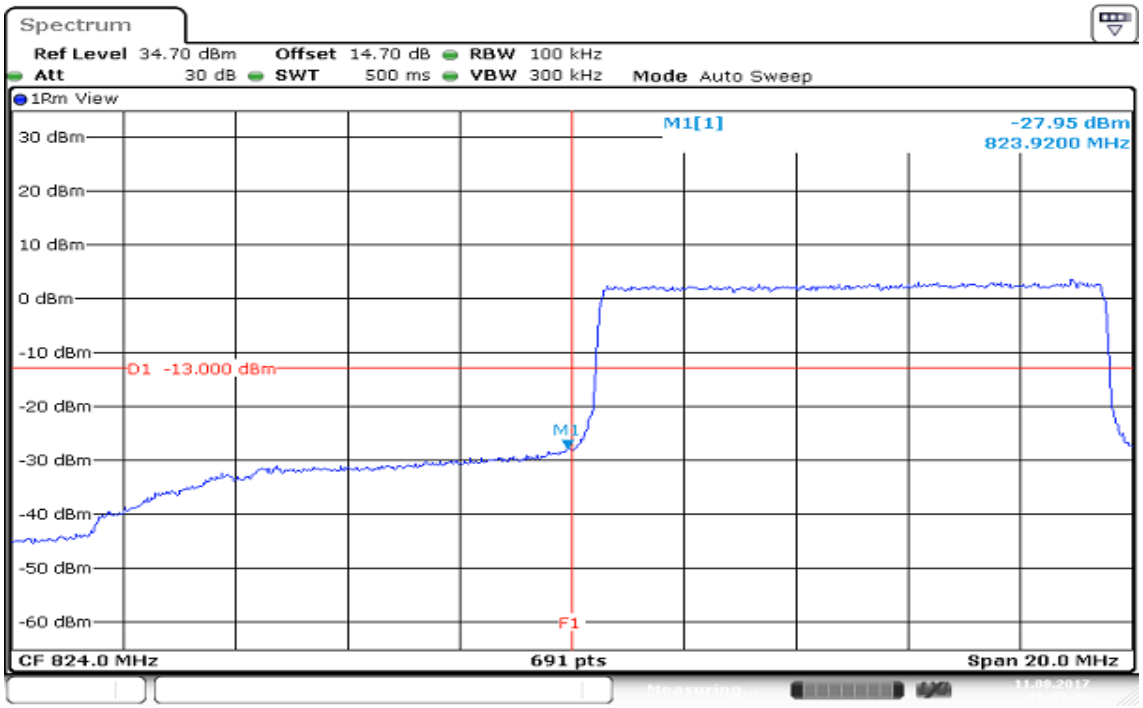
## HIGHER BAND EDGE




Date: 11.AUG.2017 17:01:37

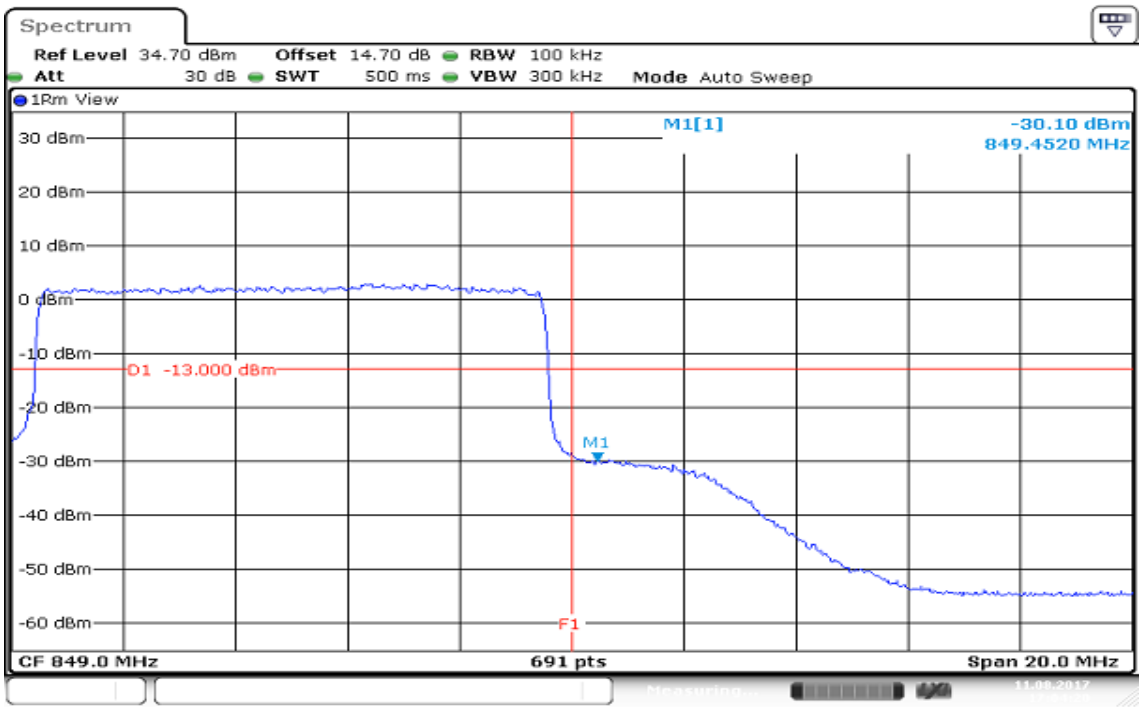
## CHANNEL BANDWIDTH: 10MHz / QPSK / 100% RB ALLOCATED

## LOWER BAND EDGE




Date: 11.AUG.2017 16:37:26

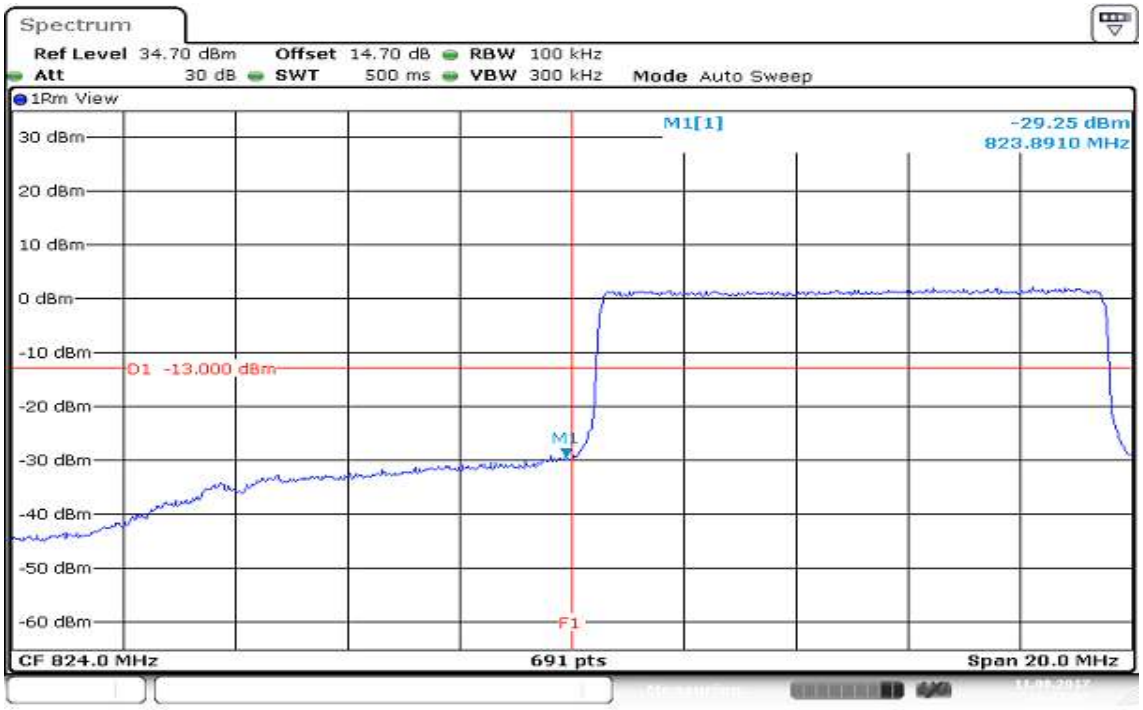
## HIGHER BAND EDGE




Date: 11.AUG.2017 17:04:20

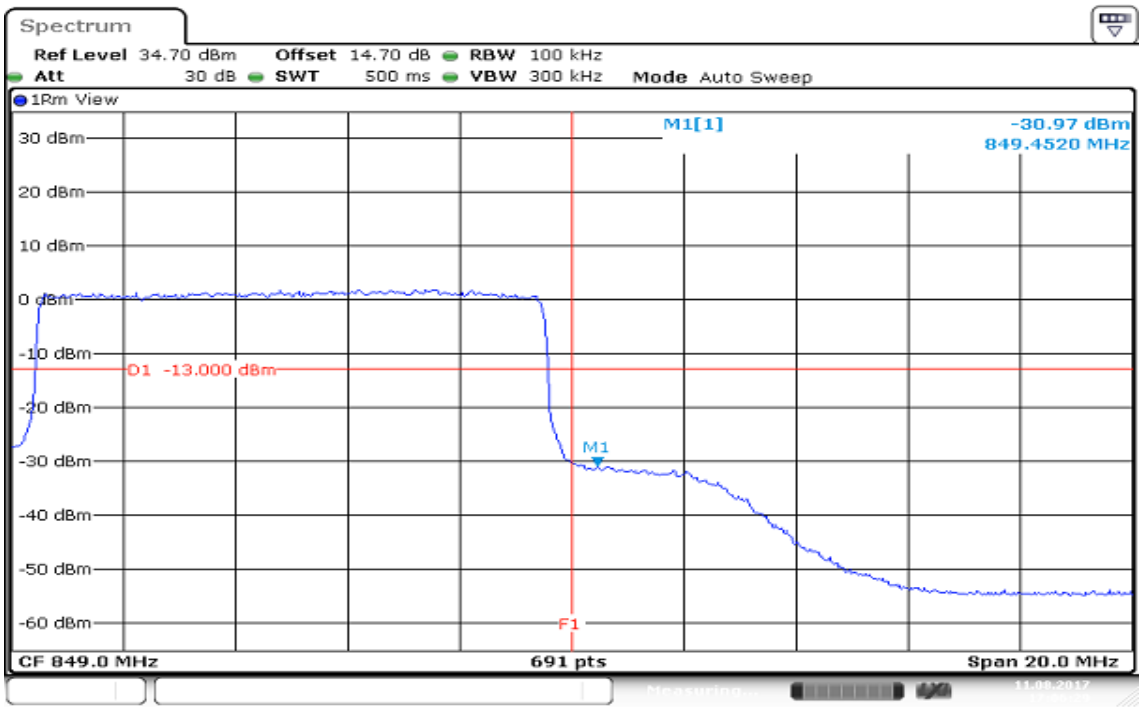
## CHANNEL BANDWIDTH: 10MHz / 16QAM / 100% RB ALLOCATED

## LOWER BAND EDGE




Date: 11.AUG.2017 16:35:02

## HIGHER BAND EDGE




Date: 11.AUG.2017 17:06:29

# 7.7 CONDUCTED SPURIOUS EMISSIONS

## Limits

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 43 +10 log10(P) dB. The limit of emission equal to –13dBm

## Test Procedures

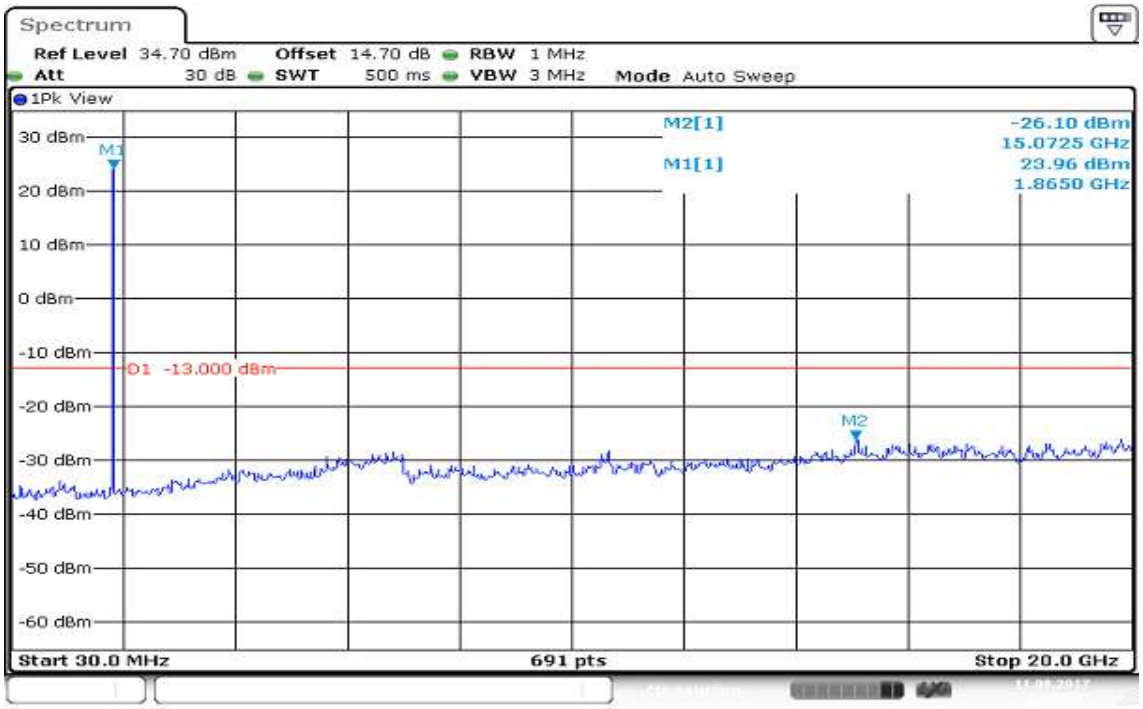
1. The EUT was set up for the maximum peak power with LTE link data modulation. The power was measured with Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high operational frequency range.).
2. The conducted spurious emission used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
3. When the spectrum scanned from 30MHz to 3GHz, it shall be connected to the band reject filter attenuated the carried frequency. The spectrum set RB=1MHz, VB=3MHz.
4. When the spectrum scanned from 3GHz to 20GHz, it shall be connected to the high pass filter attenuated the carried frequency. The spectrum set RB=1MHz, VB=3MHz.

# Test Results

## LTE Band 2

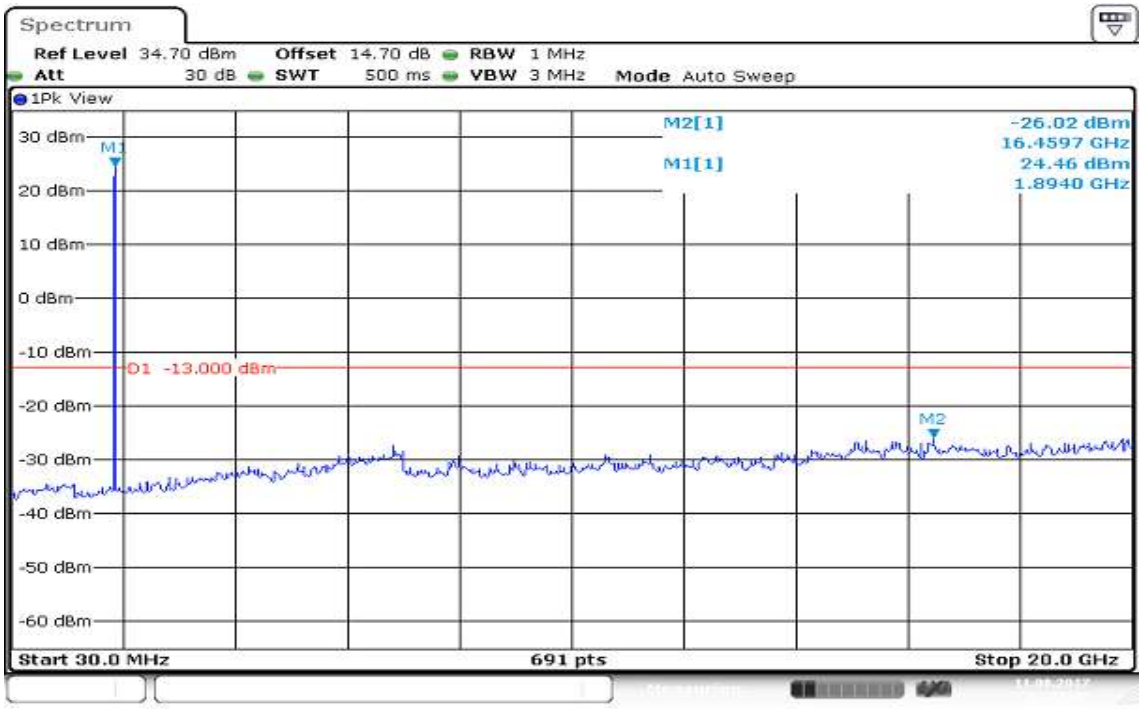
### CHANNEL BANDWIDTH: 1.4MHz / QPSK

### CH Low



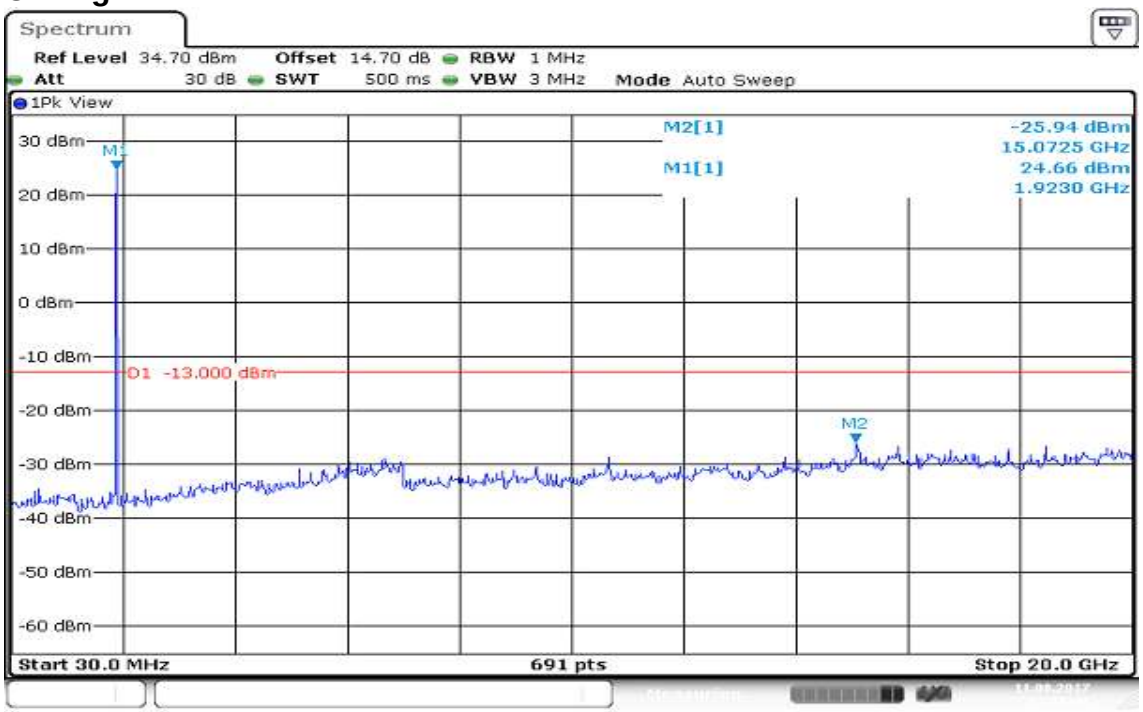

Date: 11.AUG.2017 11:30:35

### CH Mid



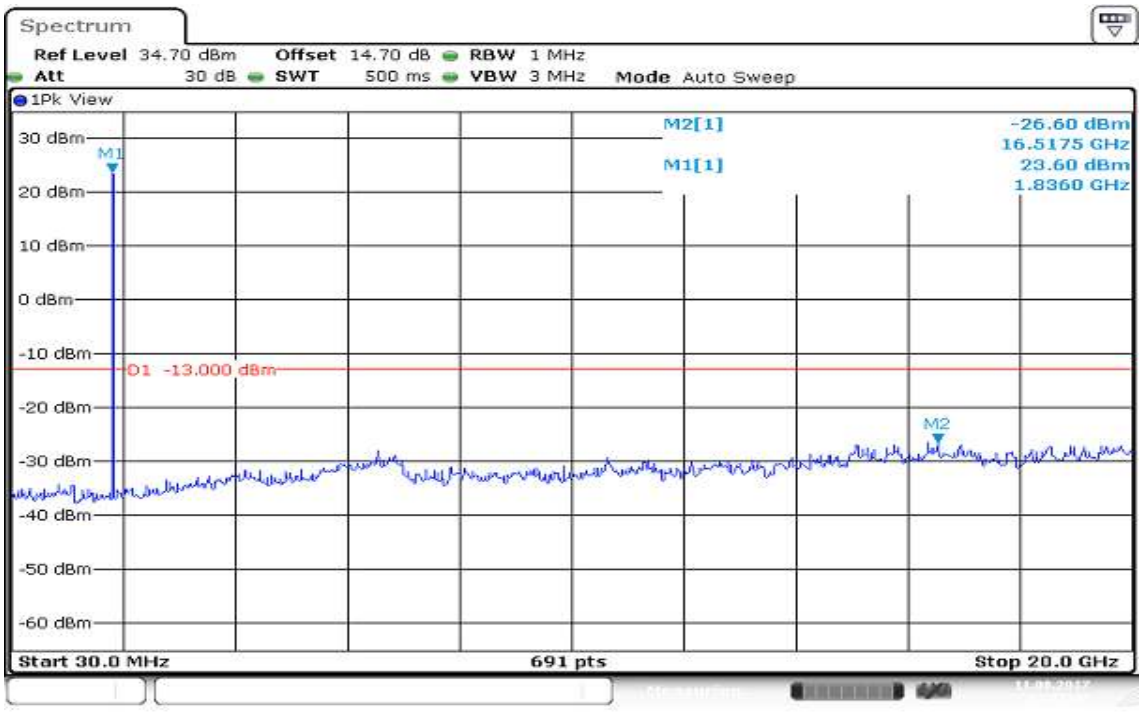

Date: 11.AUG.2017 11:29:45

## CH High


Spectrum
Ref Level 34.70 dBm Offset 14.70 dB RBW 1 MHz
Att 30 dB SWT 500 ms VBW 3 MHz Mode Auto Sweep
1Pk View
M2[1] -25.94 dBm
15.0725 GHz
M1[1] 24.66 dBm
1.9230 GHz
30 dBm
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
D1 -13.000 dBm
M1
M2
Start 30.0 MHz
691 pts
Stop 20.0 GHz
Date: 11.AUG.2017 11:28:41

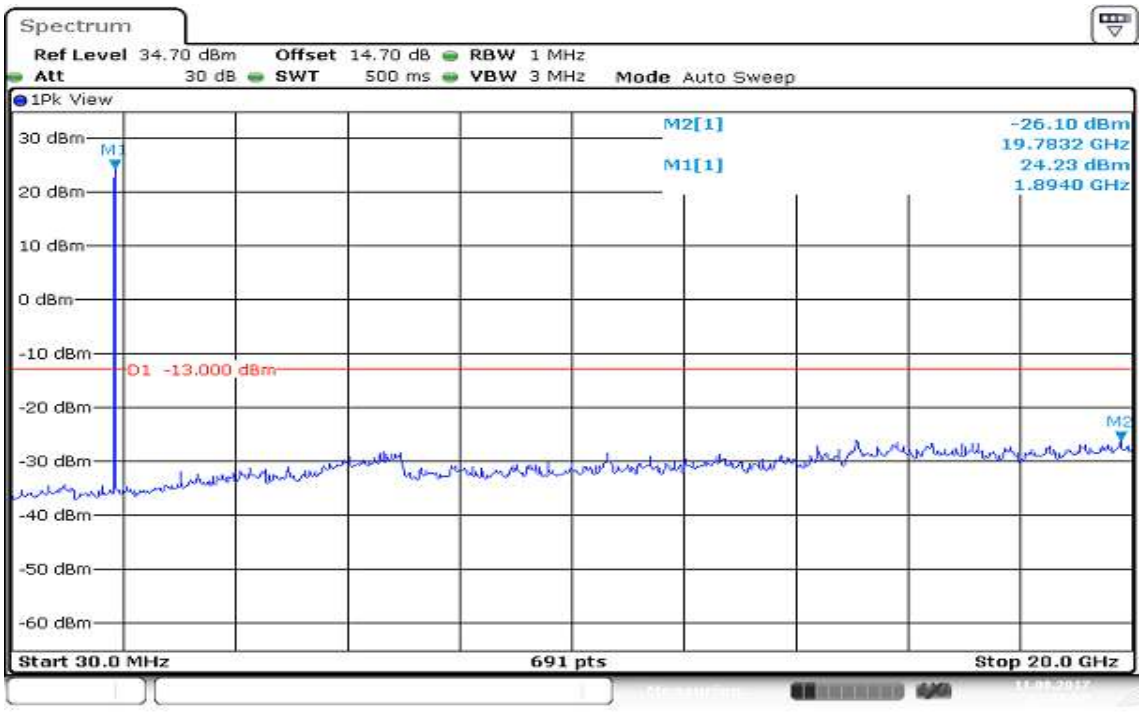
## CHANNEL BANDWIDTH: 1.4MHz / 16QAM

### CH Low



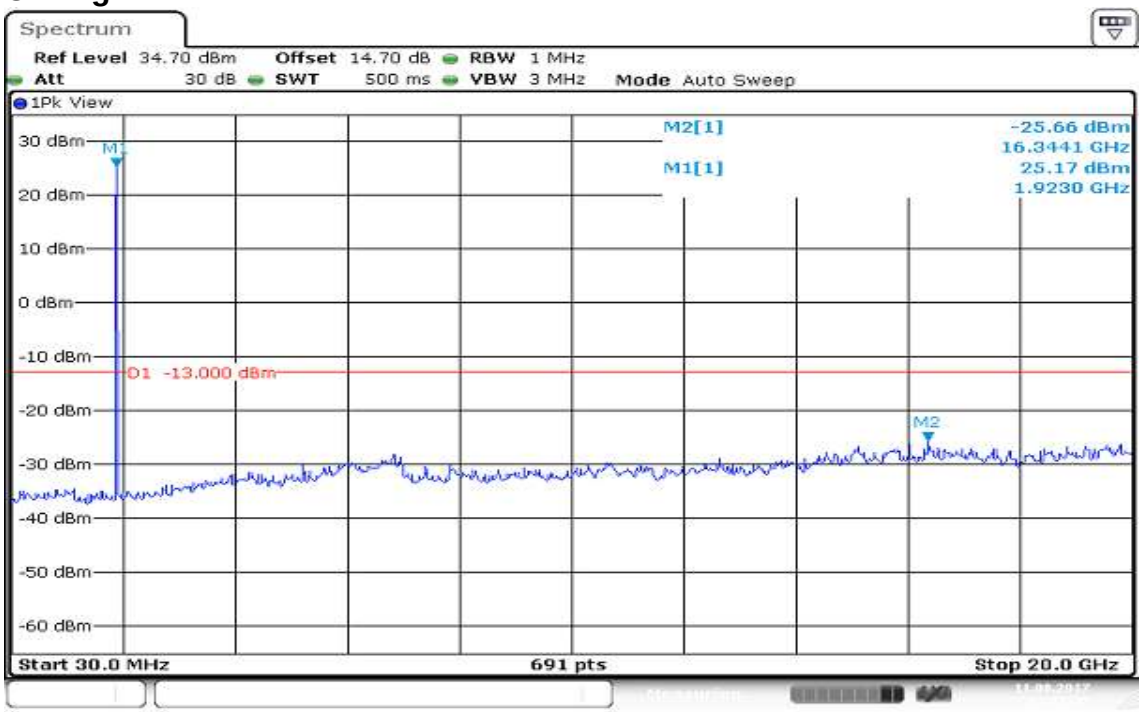

Date: 11.AUG.2017 11:25:42

### CH Mid



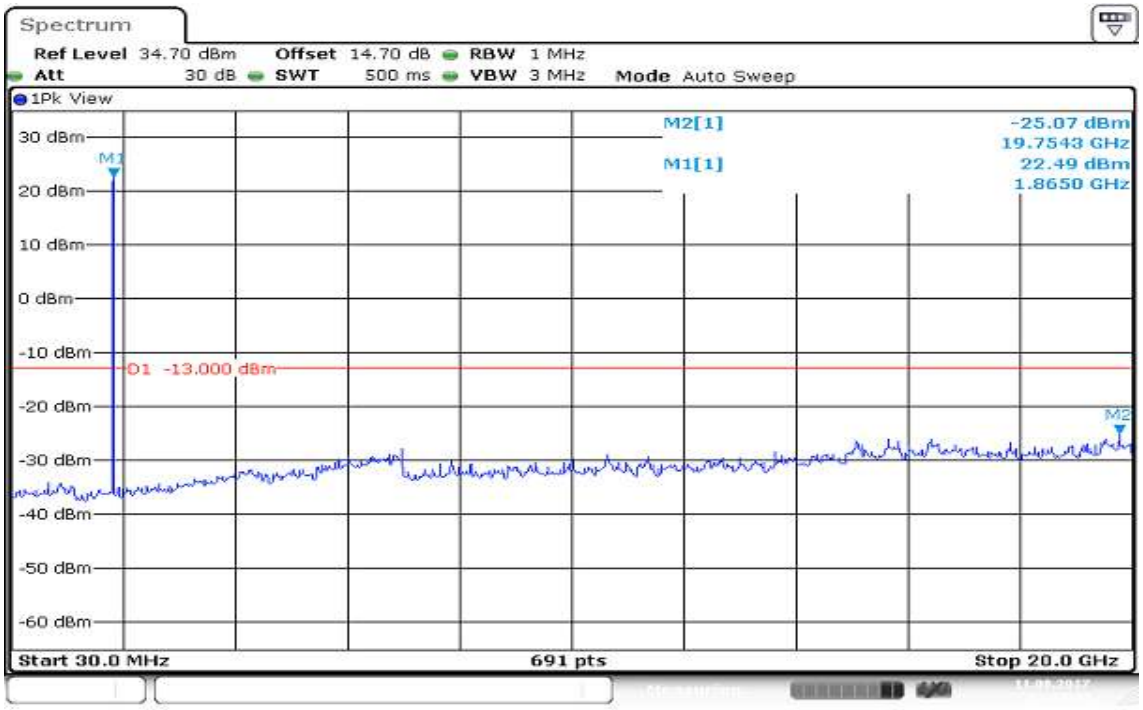

Date: 11.AUG.2017 11:26:51

## CH High



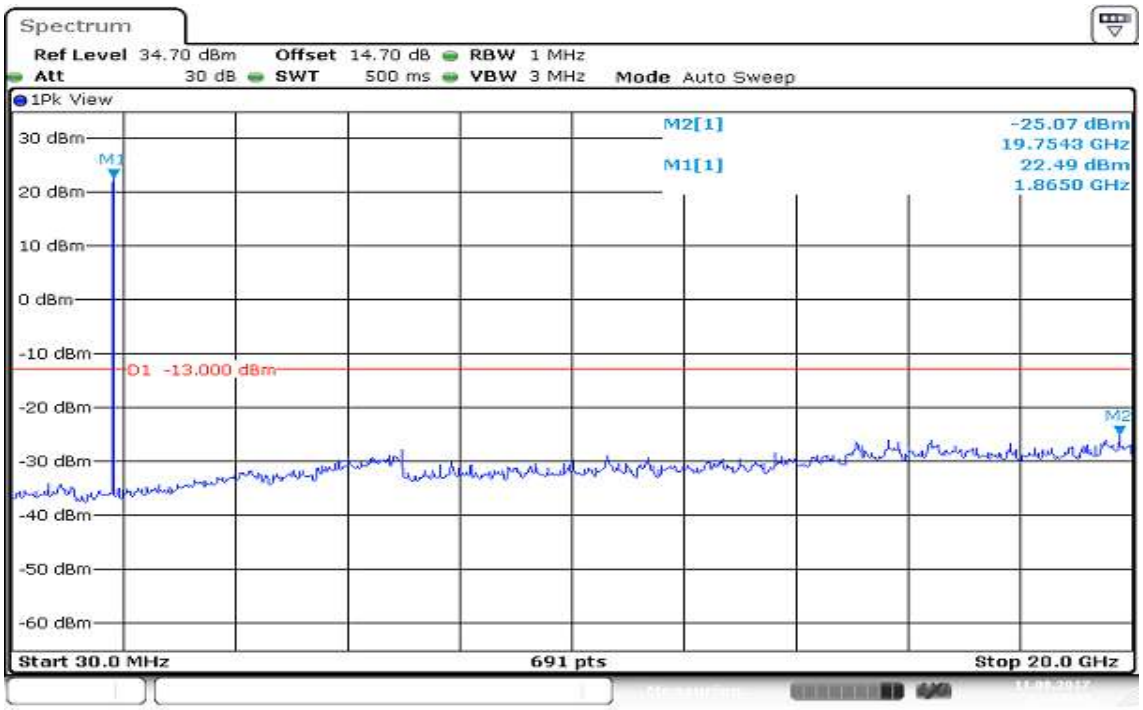

Date: 11.AUG.2017 11:27:35

## CHANNEL BANDWIDTH: 3MHz / QPSK
## CH Low



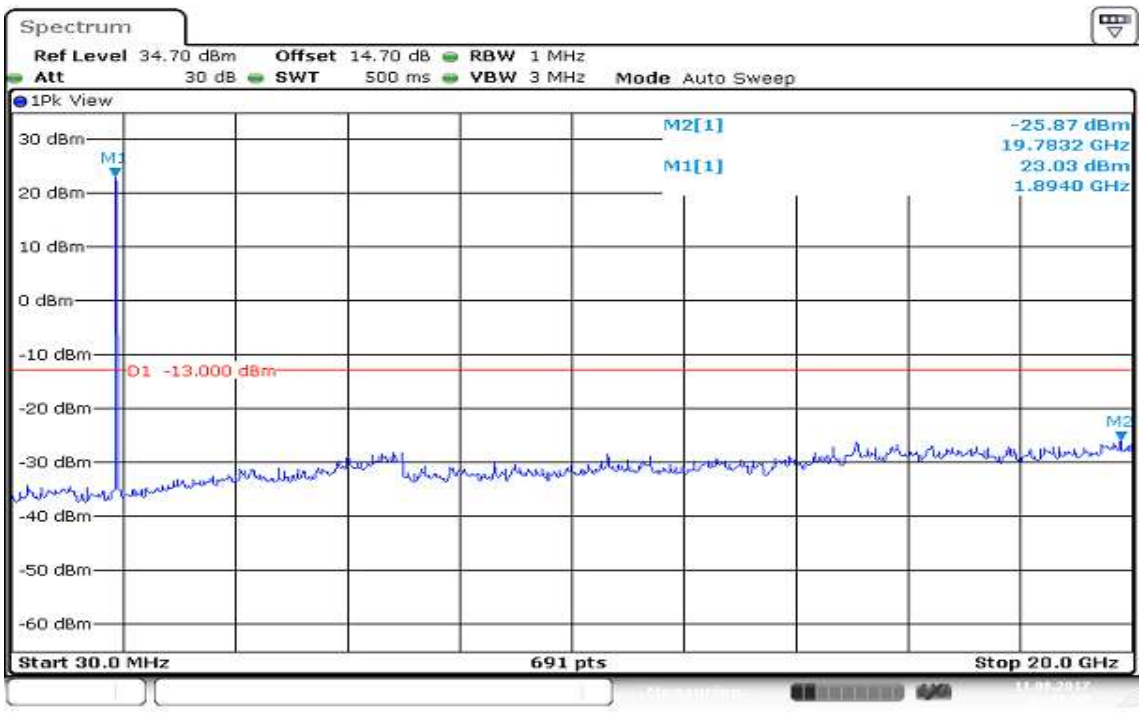

Date: 11.AUG.2017 11:34:50

## CH Mid




Date: 11.AUG.2017 11:34:50

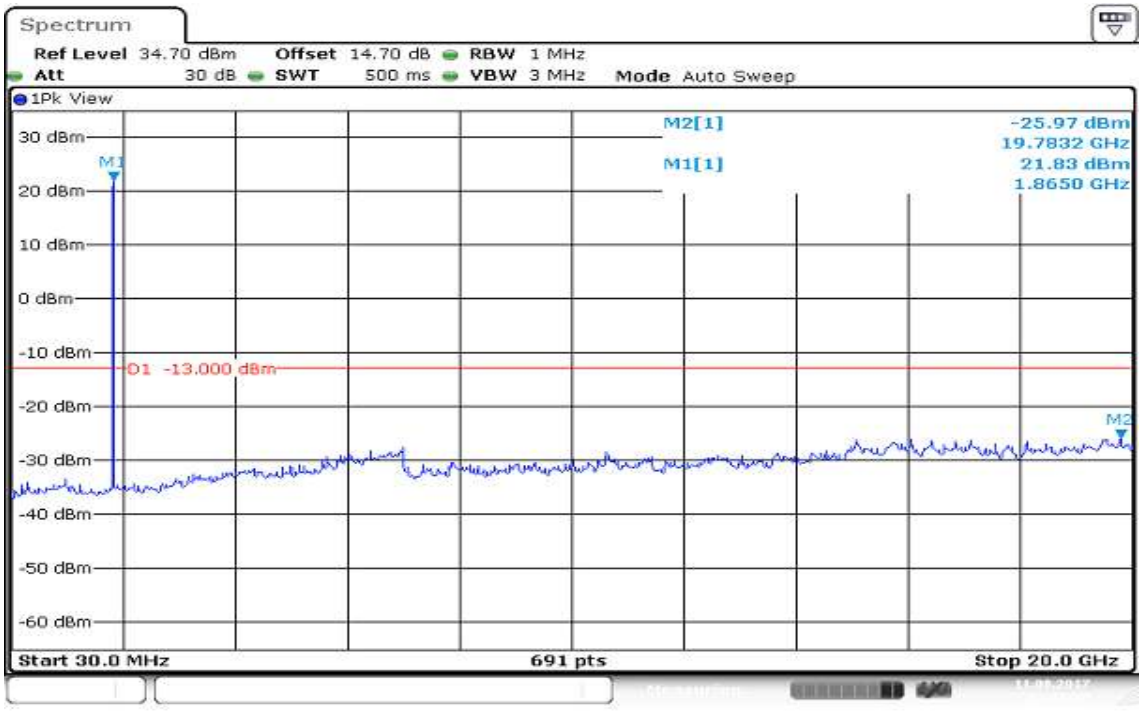
## CH High




Date: 11.AUG.2017 11:36:30

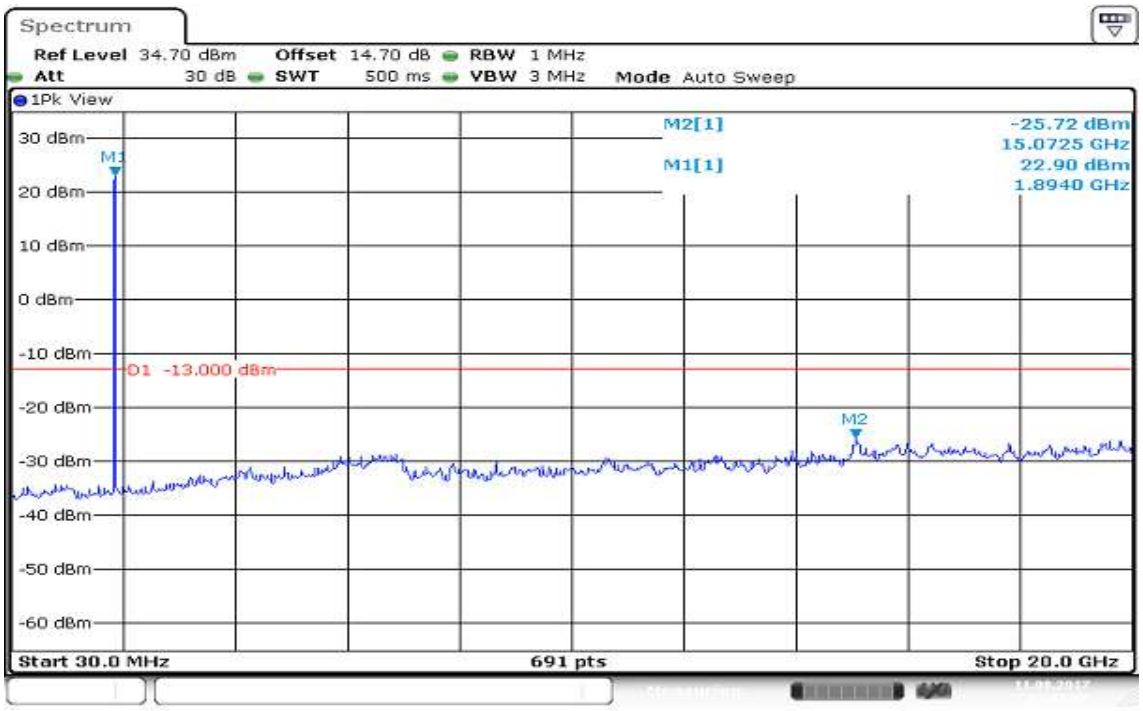
## CHANNEL BANDWIDTH: 3MHz / 16QAM

### CH Low



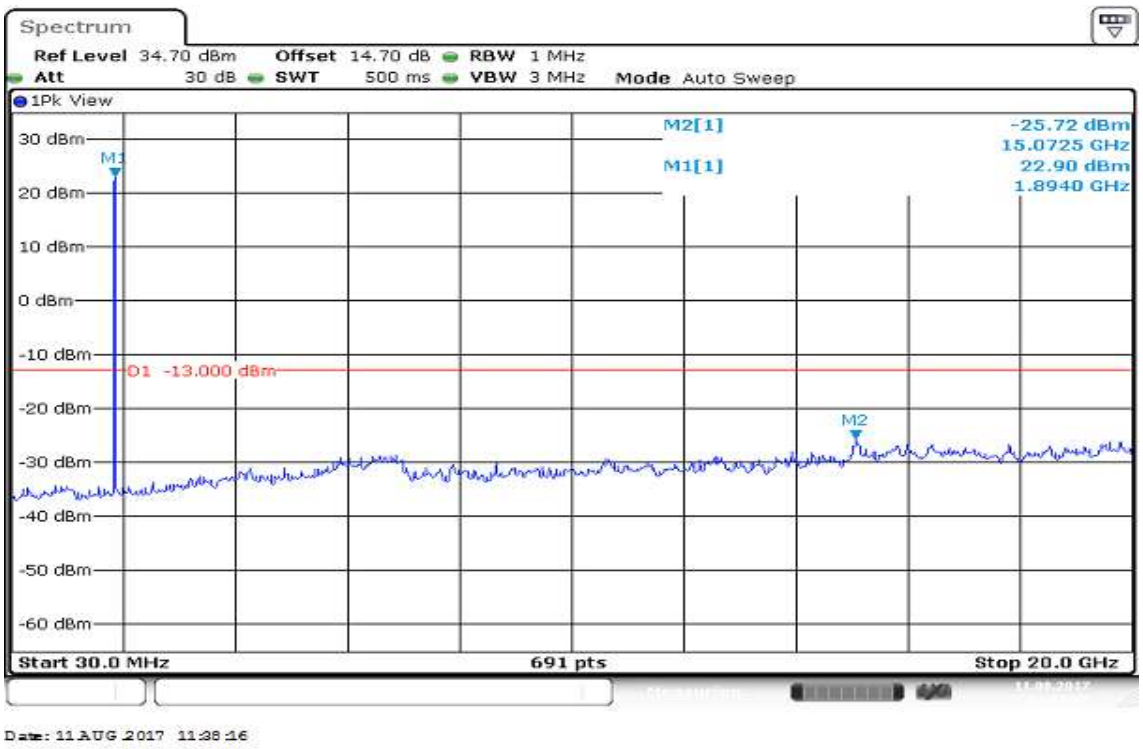

Date: 11.AUG.2017 11:39:19

### CH Mid

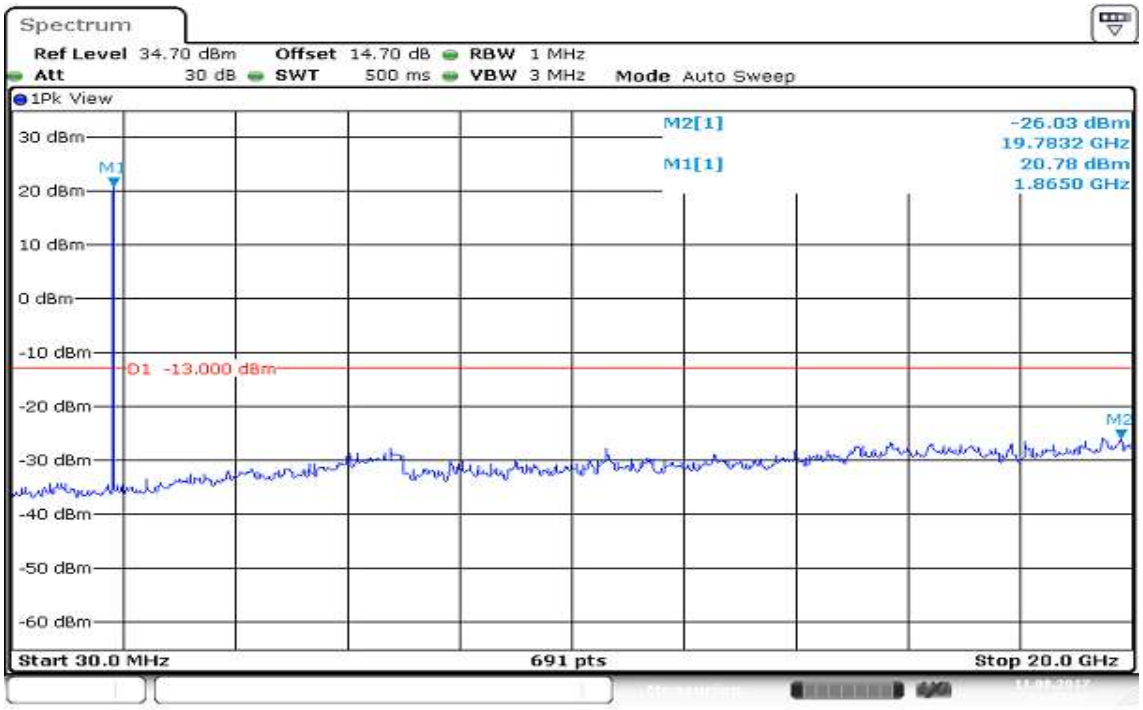



Date: 11.AUG.2017 11:38:16

## CH High

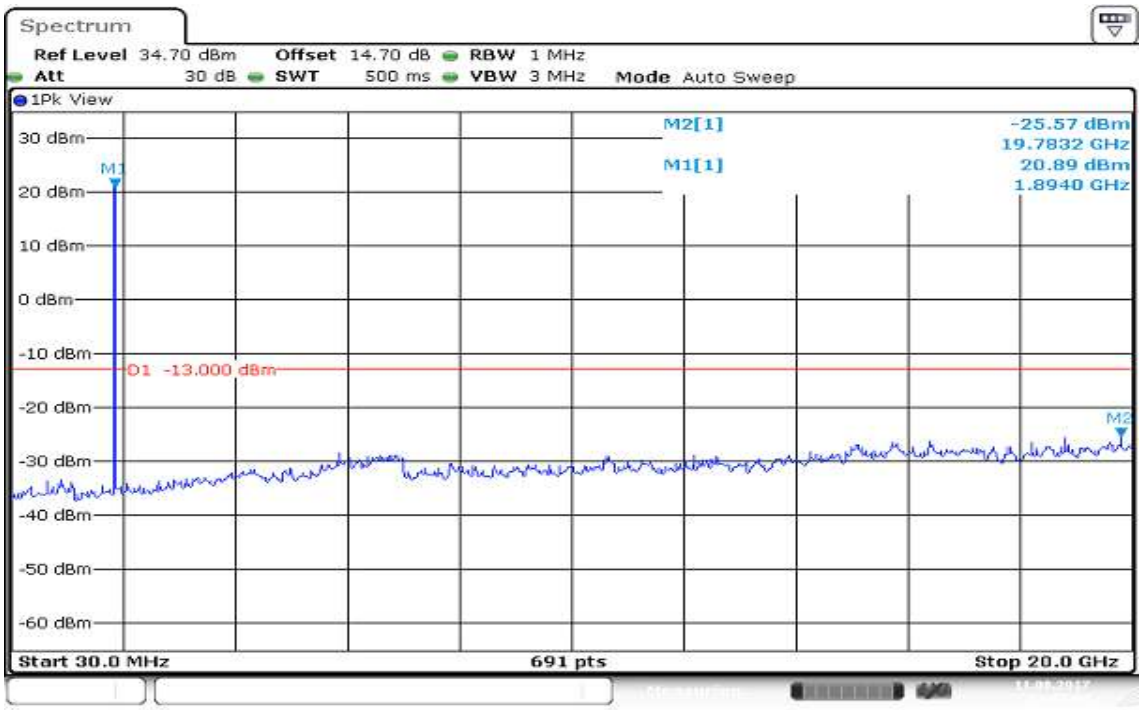

Spectrum
Ref Level 34.70 dBm Offset 14.70 dB RBW 1 MHz
Att 30 dB SWT 500 ms VBW 3 MHz Mode Auto Sweep
1Pk View
M2[1] -25.72 dBm
15.0725 GHz
M1[1] 22.90 dBm
1.8940 GHz
30 dBm
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
M1
D1 -13.000 dBm
M2
Start 30.0 MHz
691 pts
Stop 20.0 GHz
Date: 11.AUG.2017 11:38:16

## CHANNEL BANDWIDTH: 5MHz / QPSK
## CH Low



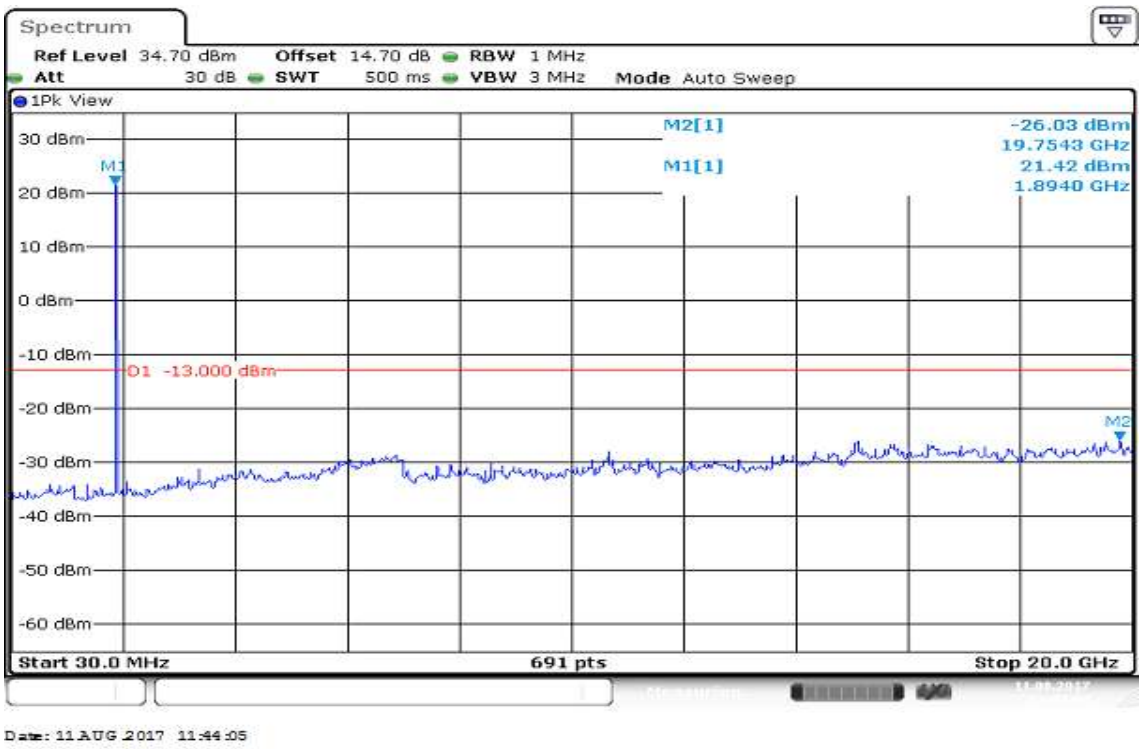

Date: 11.AUG.2017 11:45:42

## CH Mid



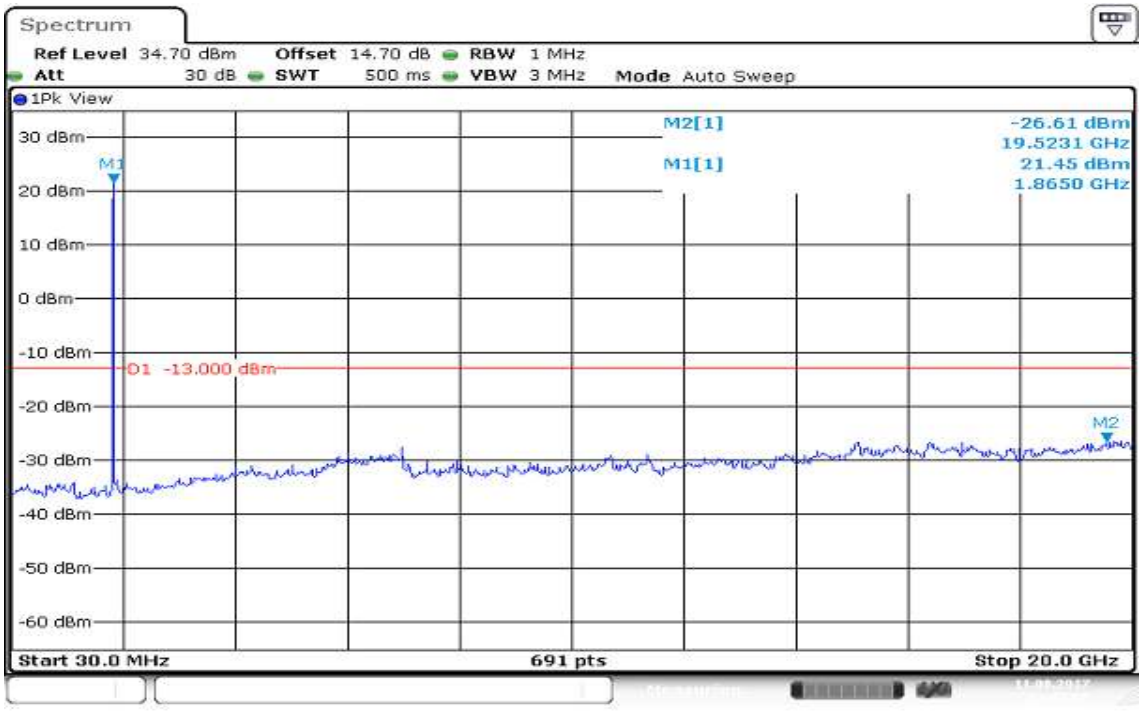

Date: 11.AUG.2017 11:45:04

## CH High


Spectrum
Ref Level 34.70 dBm Offset 14.70 dB RBW 1 MHz
Att 30 dB SWT 500 ms VBW 3 MHz Mode Auto Sweep
1Pk View
M2[1] -26.03 dBm
19.7543 GHz
M1[1] 21.42 dBm
1.8940 GHz
30 dBm
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
M1
D1 -13.000 dBm
M2
Start 30.0 MHz
691 pts
Stop 20.0 GHz
Date: 11.AUG.2017 11:44:05

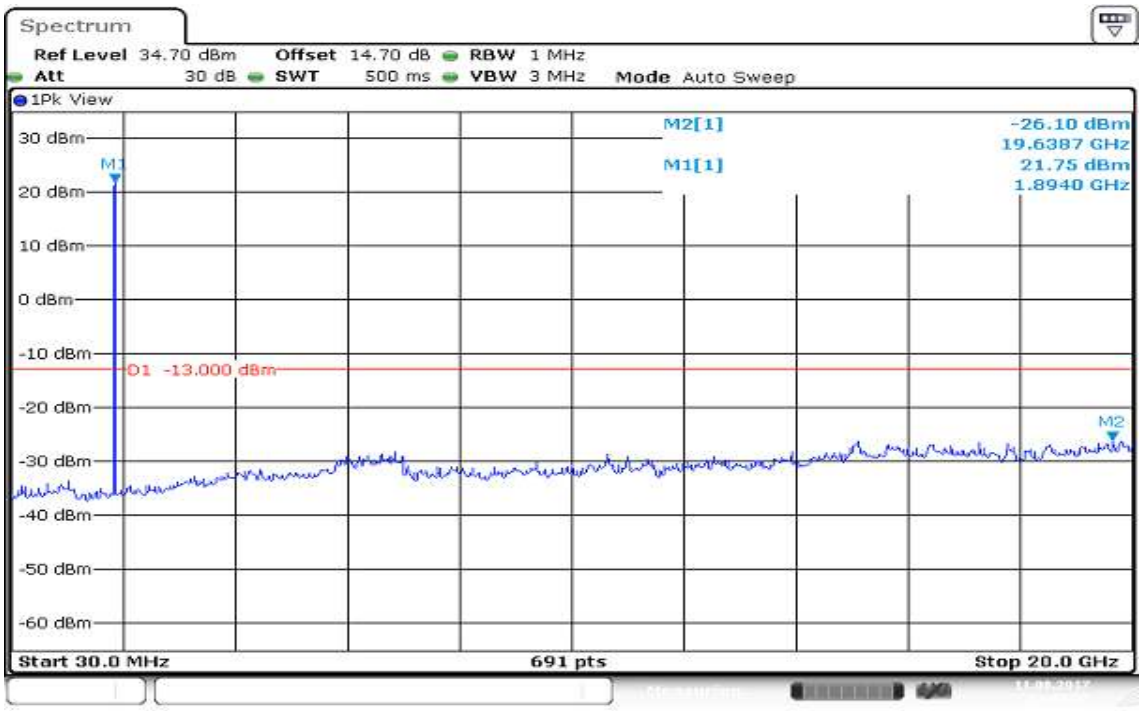
## CHANNEL BANDWIDTH: 5MHz / 16QAM

### CH Low



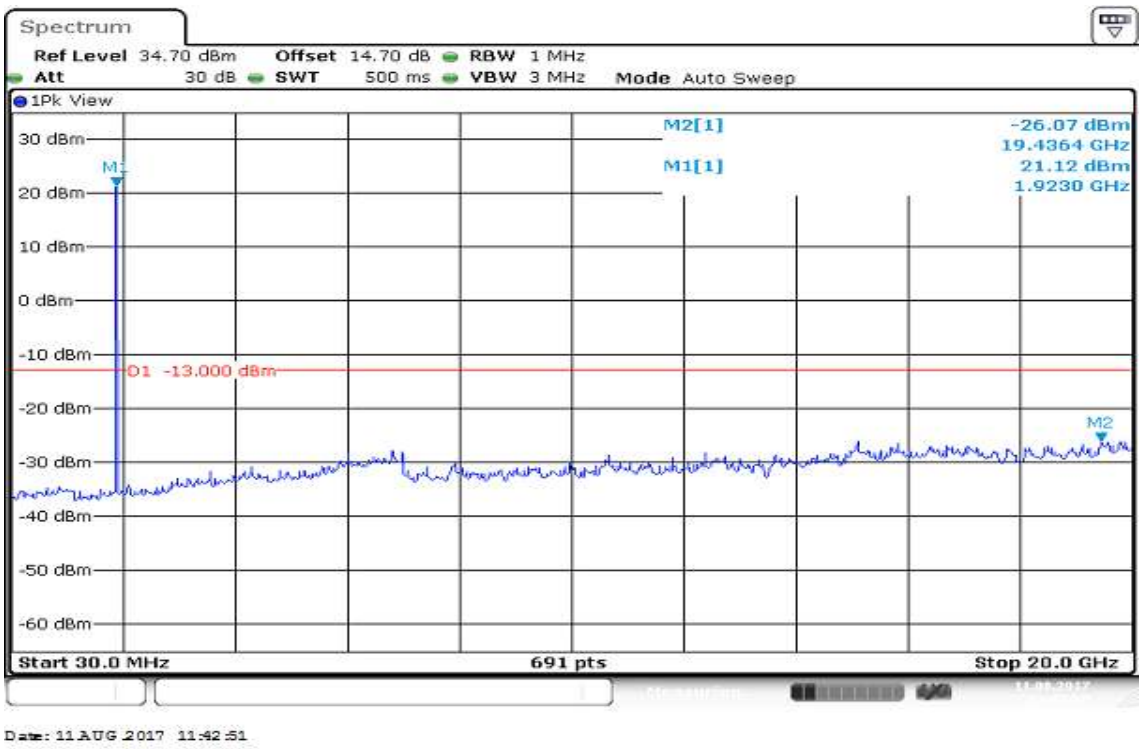

Date: 11.AUG.2017 11:42:09

### CH Mid



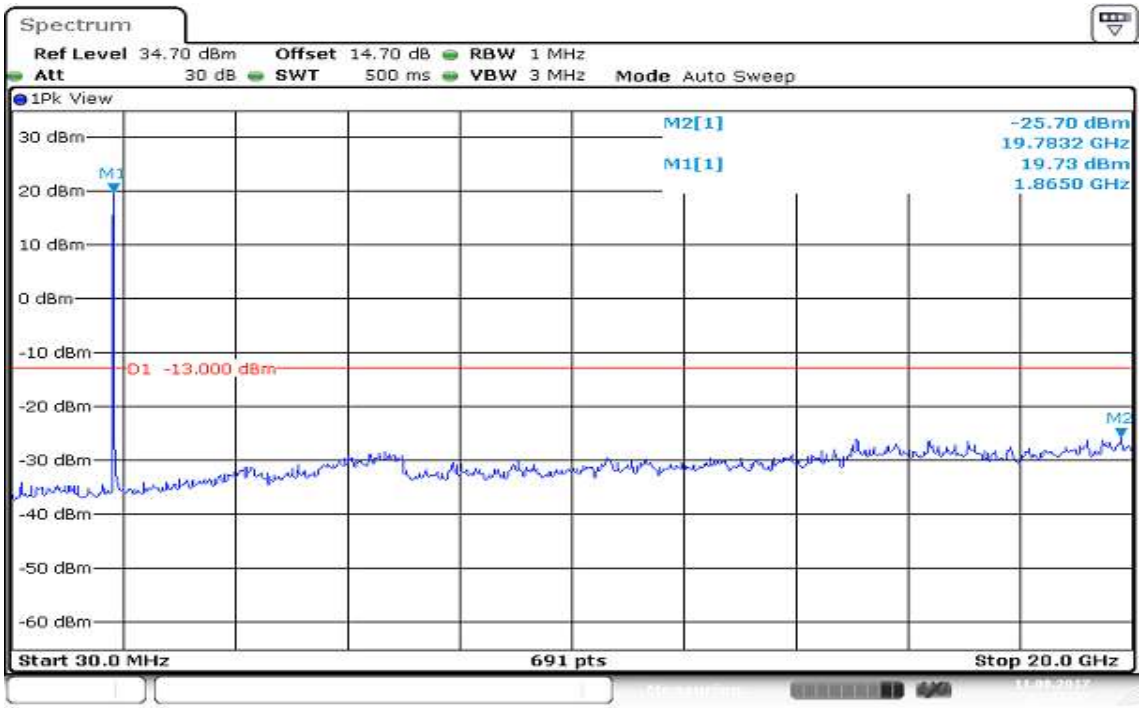

Date: 11.AUG.2017 11:40:54

## CH High


Spectrum
Ref Level 34.70 dBm Offset 14.70 dB RBW 1 MHz
Att 30 dB SWT 500 ms VBW 3 MHz Mode Auto Sweep
1Pk View
M2[1] -26.07 dBm
19.4364 GHz
M1[1] 21.12 dBm
1.9230 GHz
30 dBm
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
D1 -13.000 dBm
M1
M2
Start 30.0 MHz
691 pts
Stop 20.0 GHz
Date: 11.AUG.2017 11:42:51

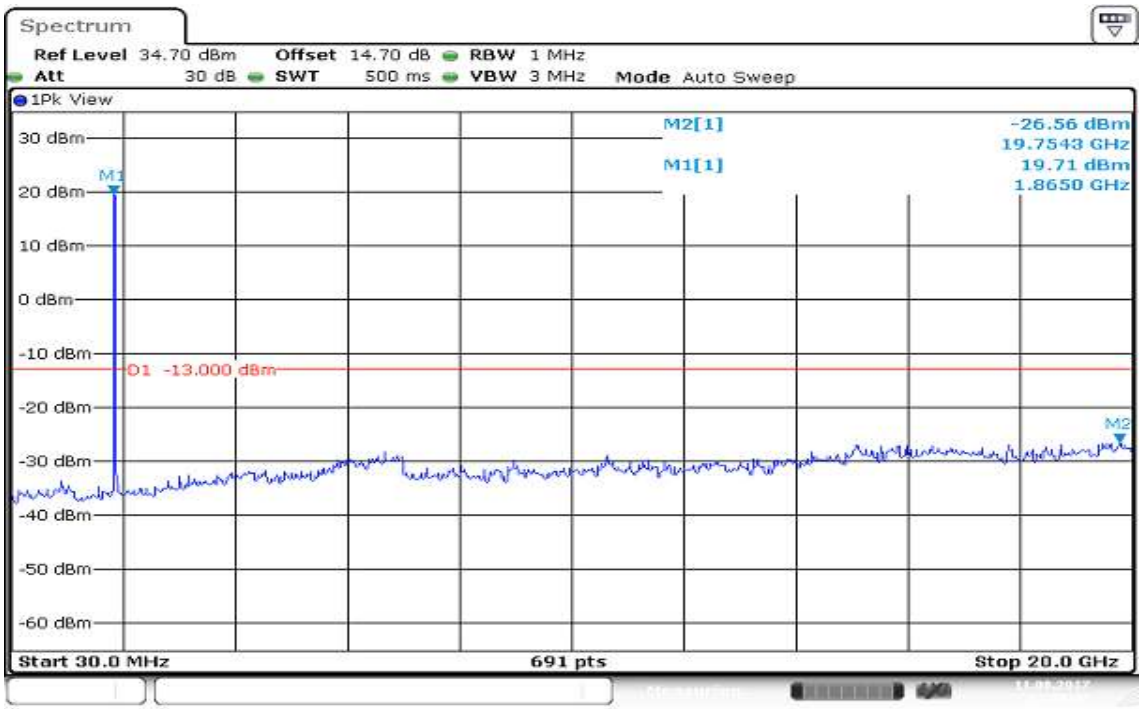
## CHANNEL BANDWIDTH: 10MHz / QPSK

### CH Low



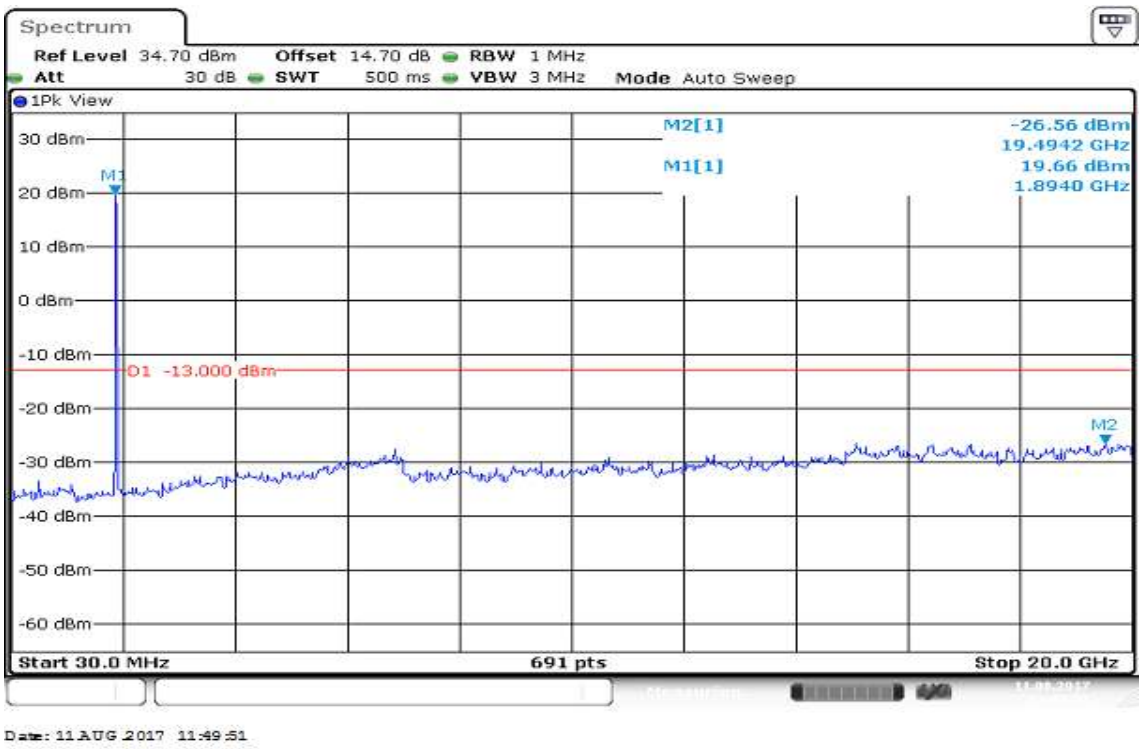

Date: 11.AUG.2017 11:51:27

### CH Mid



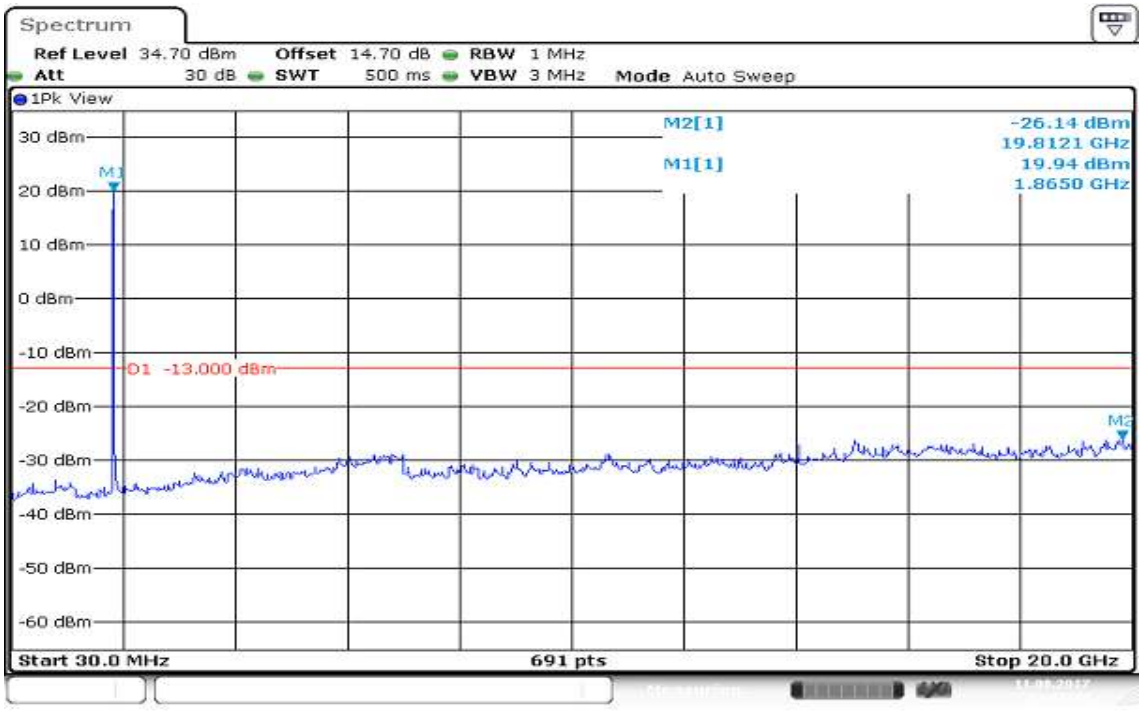

Date: 11.AUG.2017 11:50:42

## CH High


Spectrum
Ref Level 34.70 dBm Offset 14.70 dB RBW 1 MHz
Att 30 dB SWT 500 ms VBW 3 MHz Mode Auto Sweep
1Pk View
M2[1] -26.56 dBm
19.4942 GHz
M1[1] 19.66 dBm
1.8940 GHz
30 dBm
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
M1
D1 -13.000 dBm
M2
Start 30.0 MHz
691 pts
Stop 20.0 GHz
Date: 11.AUG.2017 11:49:51

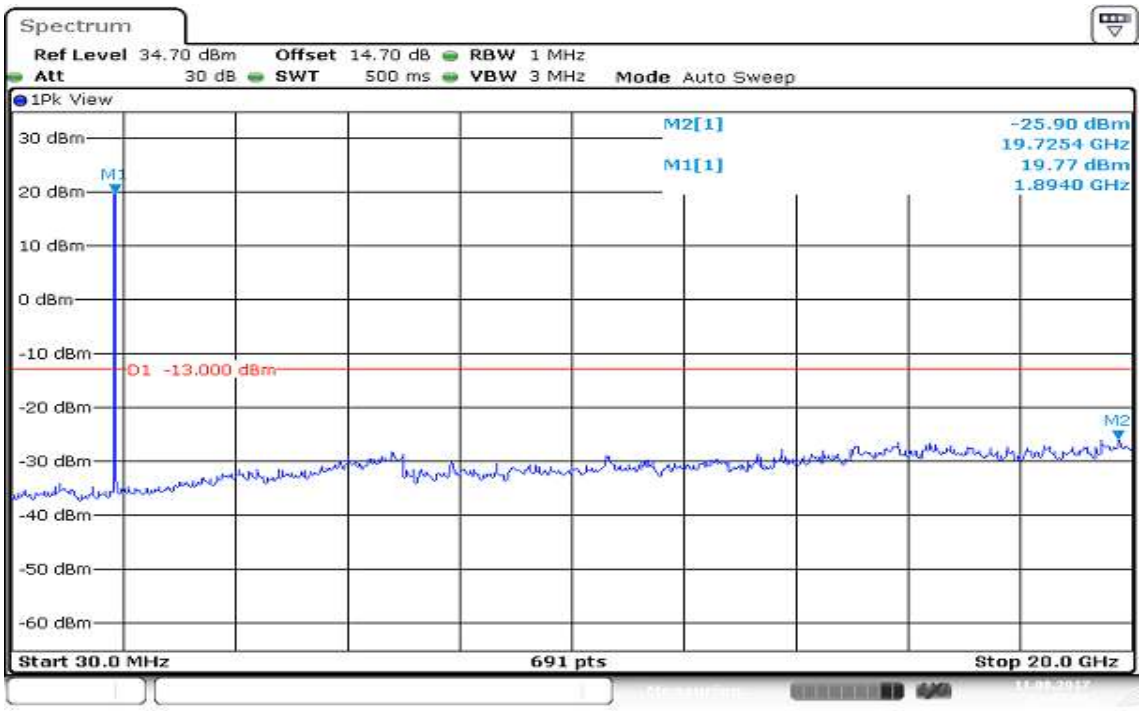
## CHANNEL BANDWIDTH: 10MHz / 16QAM

### CH Low



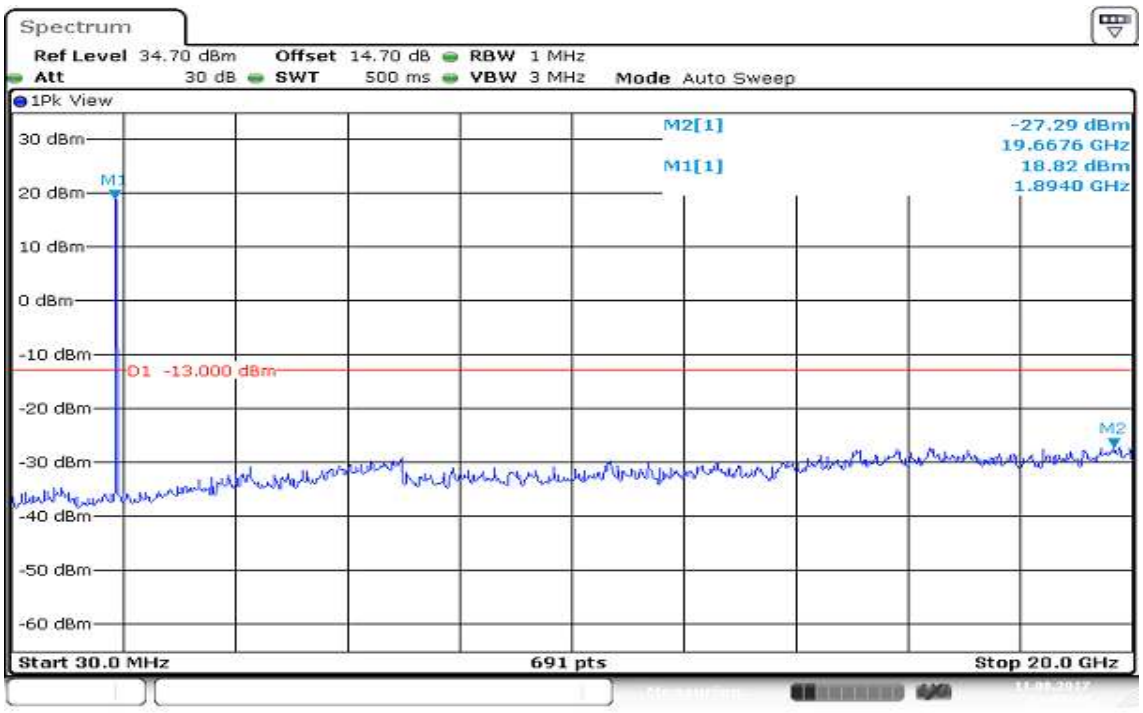

Date: 11.AUG.2017 11:48:24

### CH Mid



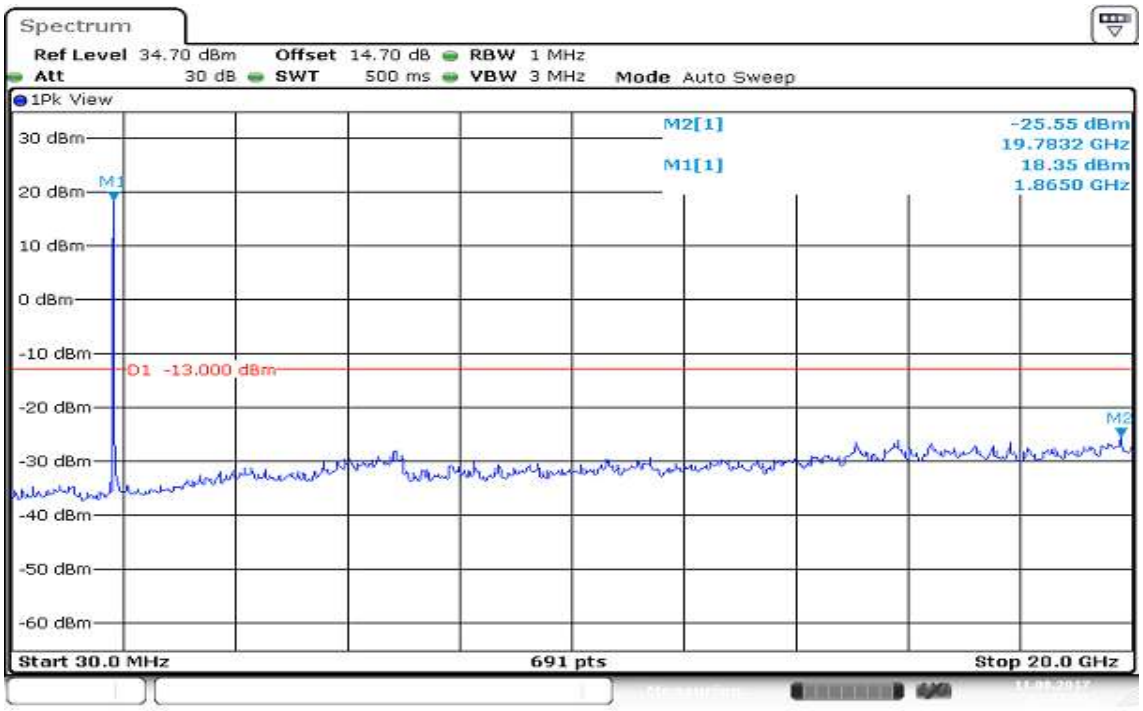

Date: 11.AUG.2017 11:47:01

## CH High


Spectrum
Ref Level 34.70 dBm Offset 14.70 dB RBW 1 MHz
Att 30 dB SWT 500 ms VBW 3 MHz Mode Auto Sweep
1Pk View
M2[1] -27.29 dBm
19.6676 GHz
M1[1] 18.82 dBm
1.8940 GHz
30 dBm
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
M1
D1 -13.000 dBm
M2
Start 30.0 MHz
691 pts
Stop 20.0 GHz
Date: 11.AUG.2017 11:49:14

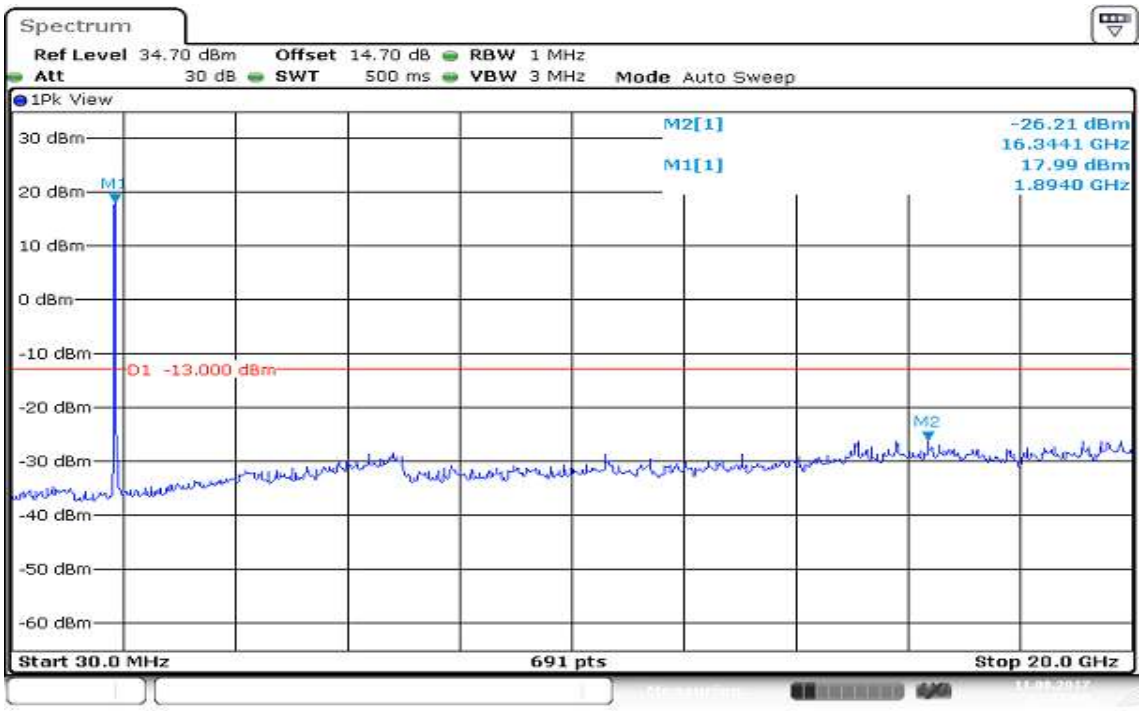
## CHANNEL BANDWIDTH: 15MHz / QPSK

### CH Low



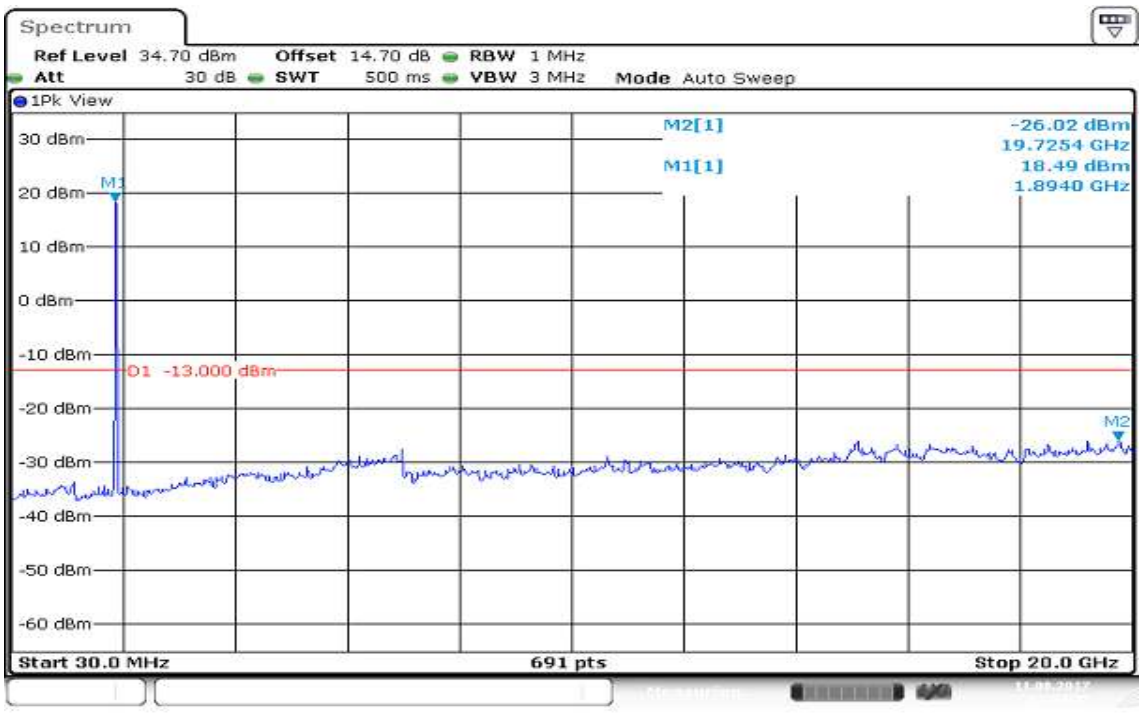

Date: 11.AUG.2017 11:55:52

### CH Mid



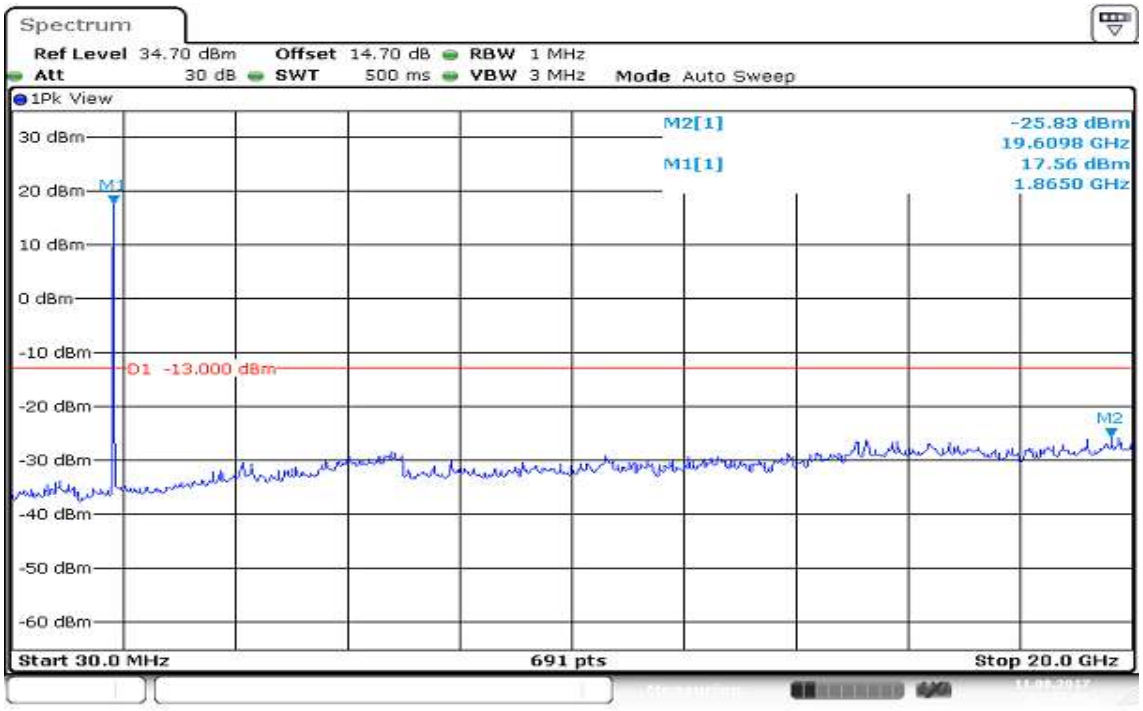

Date: 11.AUG.2017 11:55:09

## CH High


Spectrum
Ref Level 34.70 dBm Offset 14.70 dB RBW 1 MHz
Att 30 dB SWT 500 ms VBW 3 MHz Mode Auto Sweep
1Pk View
M2[1] -26.02 dBm
19.7254 GHz
M1[1] 18.49 dBm
1.8940 GHz
30 dBm
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
M1
D1 -13.000 dBm
M2
Start 30.0 MHz
691 pts
Stop 20.0 GHz
Date: 11.AUG.2017 11:54:26

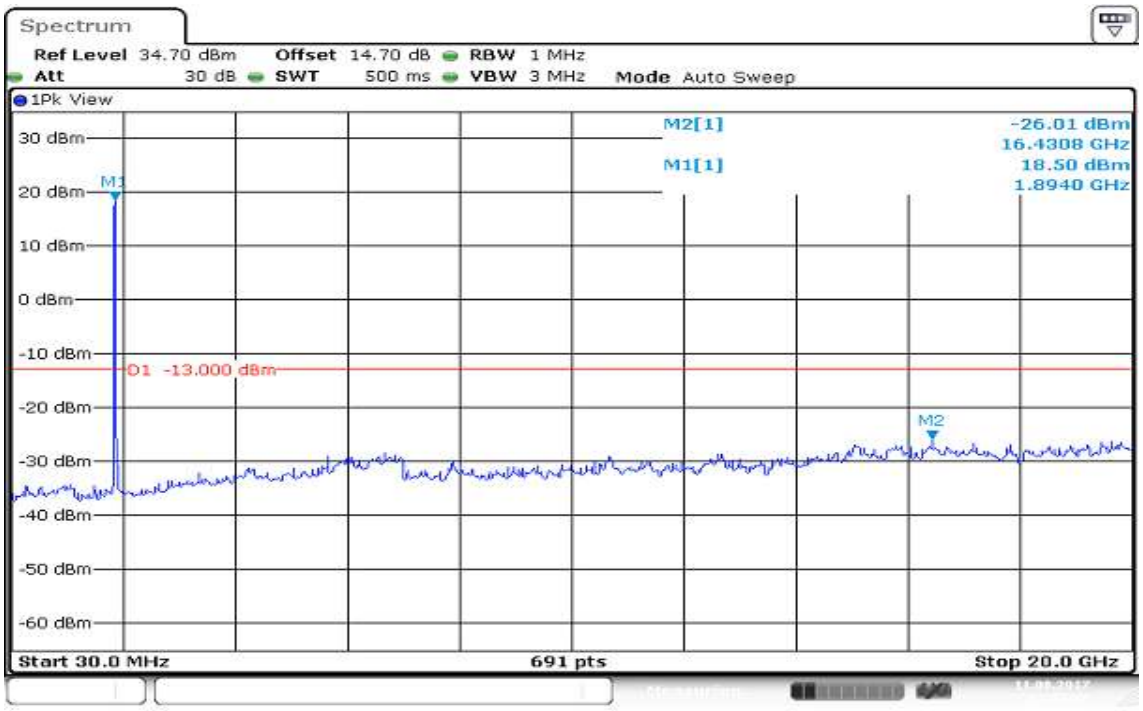
## CHANNEL BANDWIDTH: 15MHz / 16QAM

### CH Low



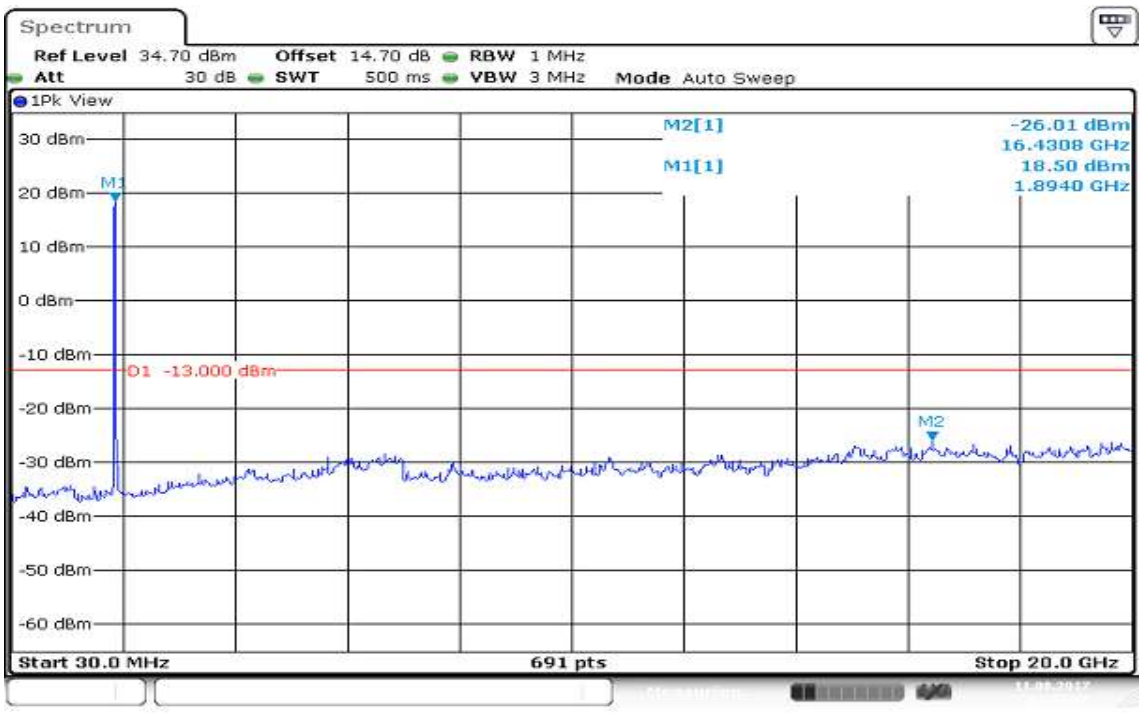

Date: 11.AUG.2017 11:53:01

### CH Mid



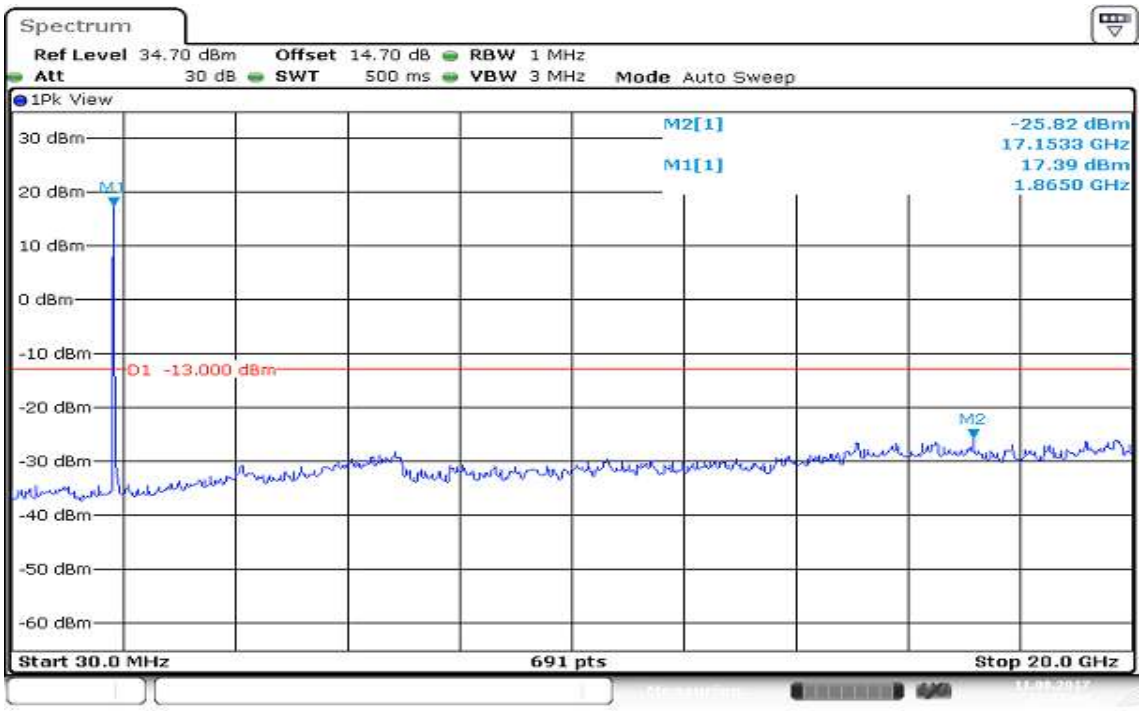

Date: 11.AUG.2017 11:52:18

## CH High


Spectrum
Ref Level 34.70 dBm Offset 14.70 dB RBW 1 MHz
Att 30 dB SWT 500 ms VBW 3 MHz Mode Auto Sweep
1Pk View
M2[1] -26.01 dBm
16.4308 GHz
M1[1] 18.50 dBm
1.8940 GHz
30 dBm
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
M1
D1 -13.000 dBm
M2
Start 30.0 MHz
691 pts
Stop 20.0 GHz
Date: 11.AUG.2017 11:52:18

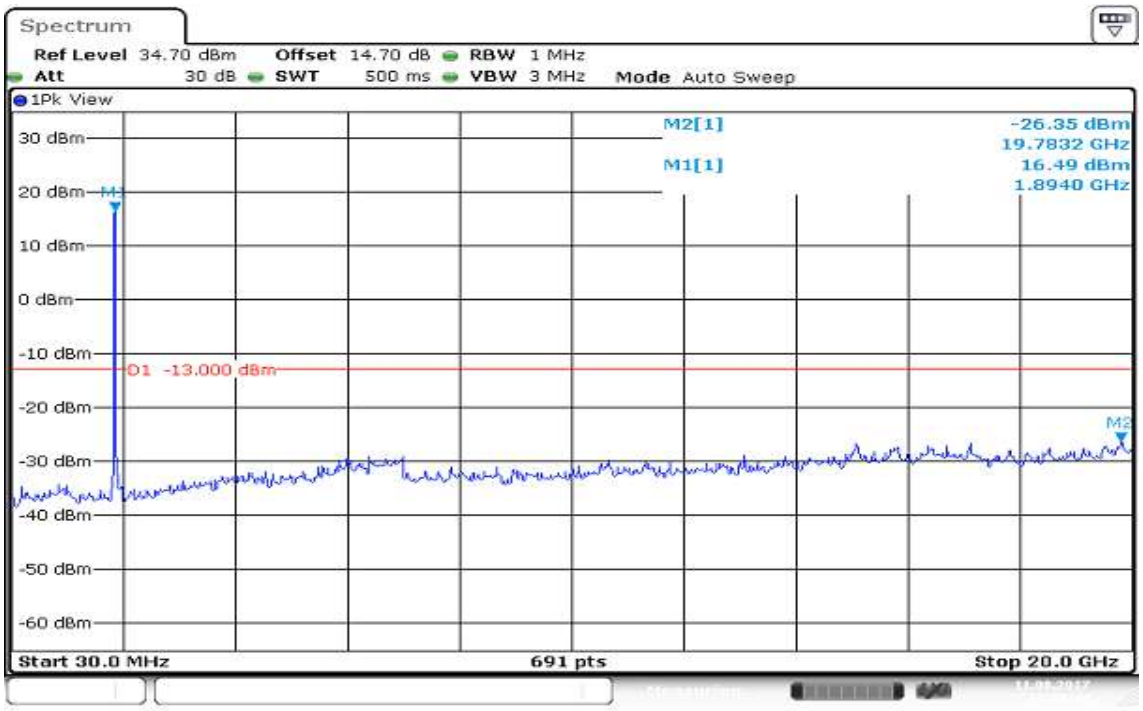
## CHANNEL BANDWIDTH: 20MHz / QPSK

### CH Low



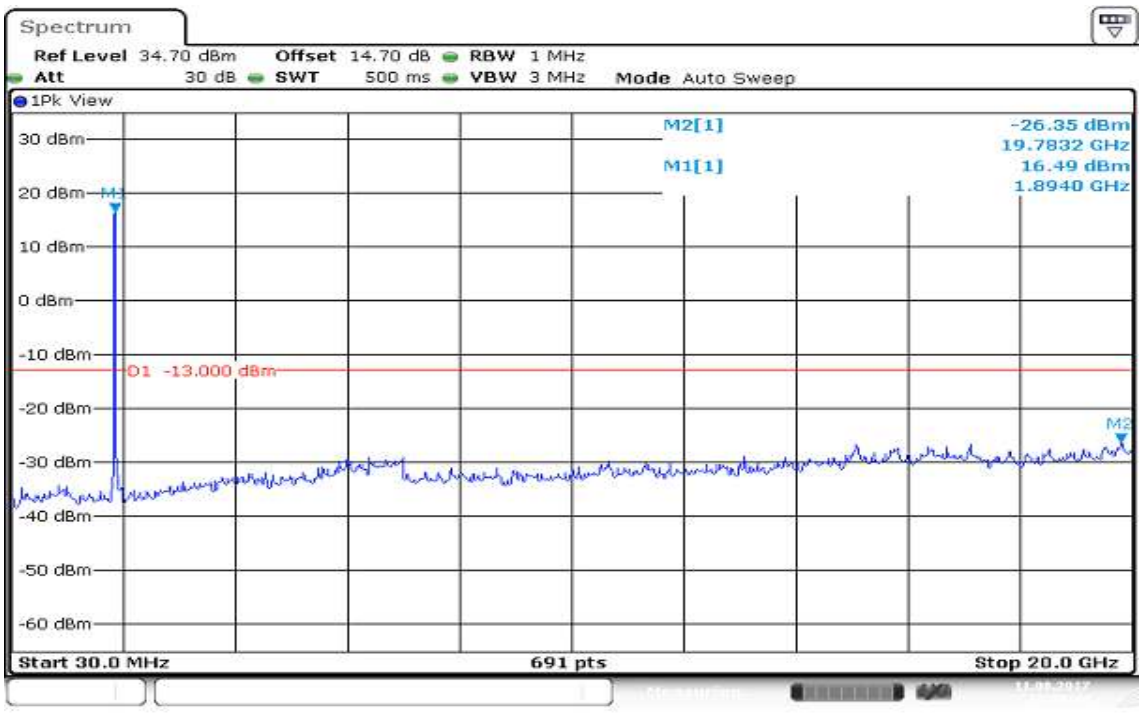

Date: 11.AUG.2017 13:01:04

### CH Mid



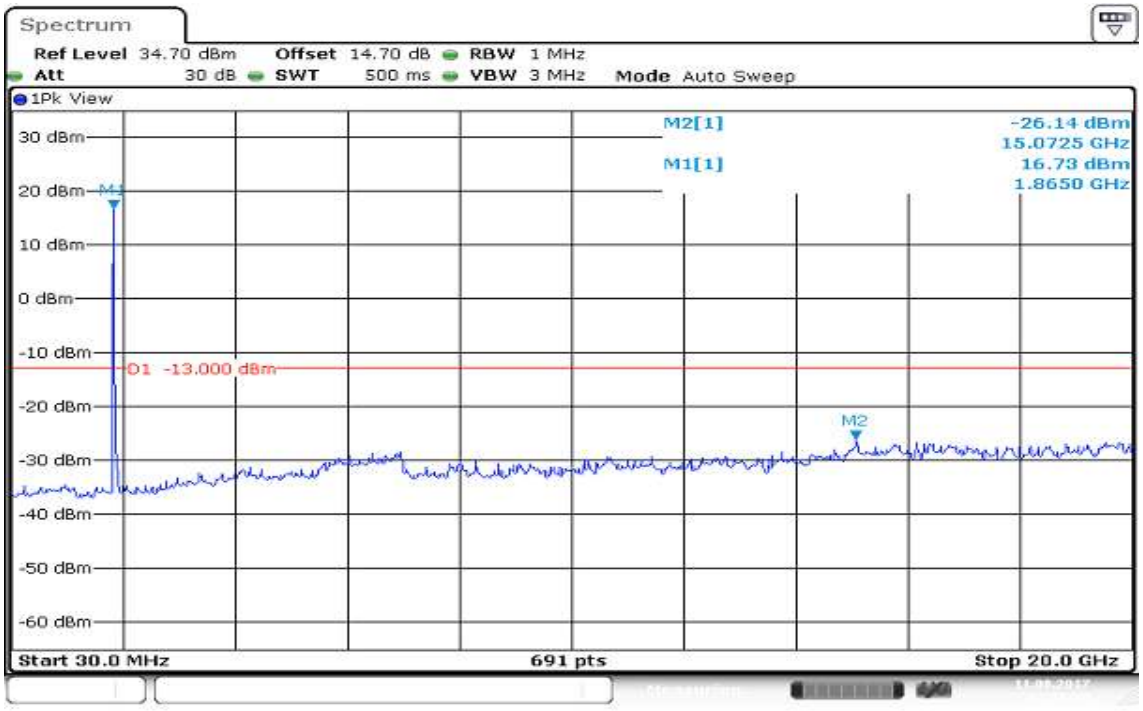

Date: 11.AUG.2017 13:00:34

## CH High


Spectrum
Ref Level 34.70 dBm Offset 14.70 dB RBW 1 MHz
Att 30 dB SWT 500 ms VBW 3 MHz Mode Auto Sweep
1Pk View
M2[1] -26.35 dBm
19.7832 GHz
M1[1] 16.49 dBm
1.8940 GHz
30 dBm
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
D1 -13.000 dBm
Start 30.0 MHz
691 pts
Stop 20.0 GHz
Date: 11.AUG.2017 13:00:34

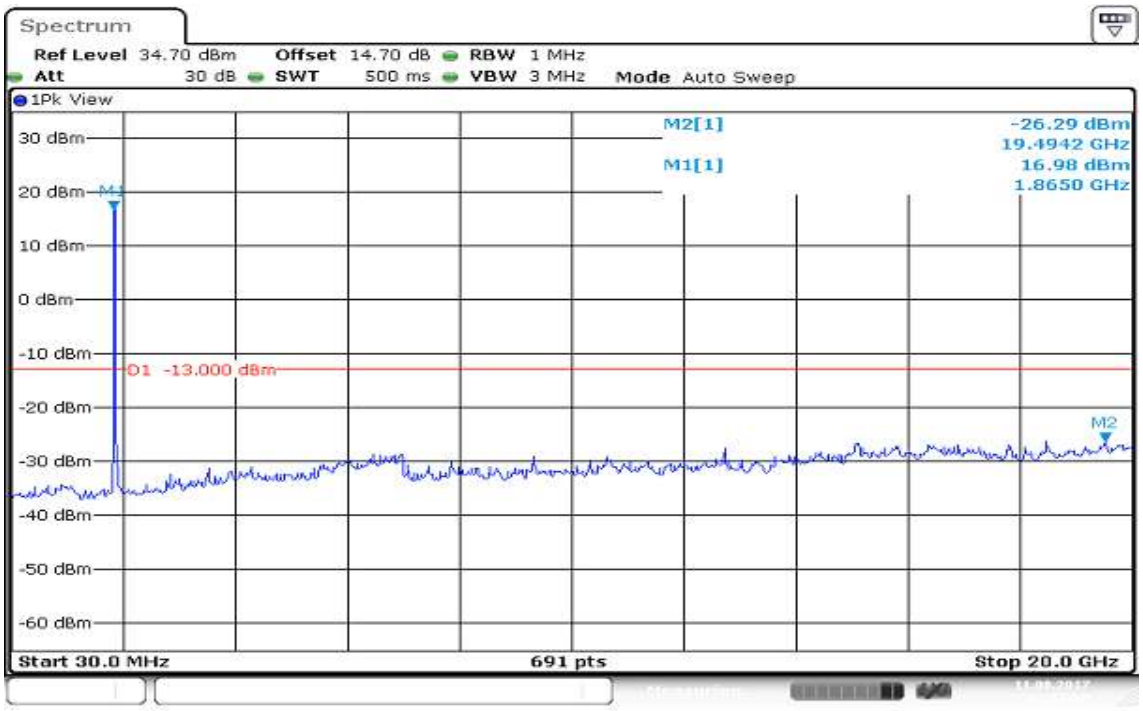
## CHANNEL BANDWIDTH: 20MHz / 16QAM

### CH Low



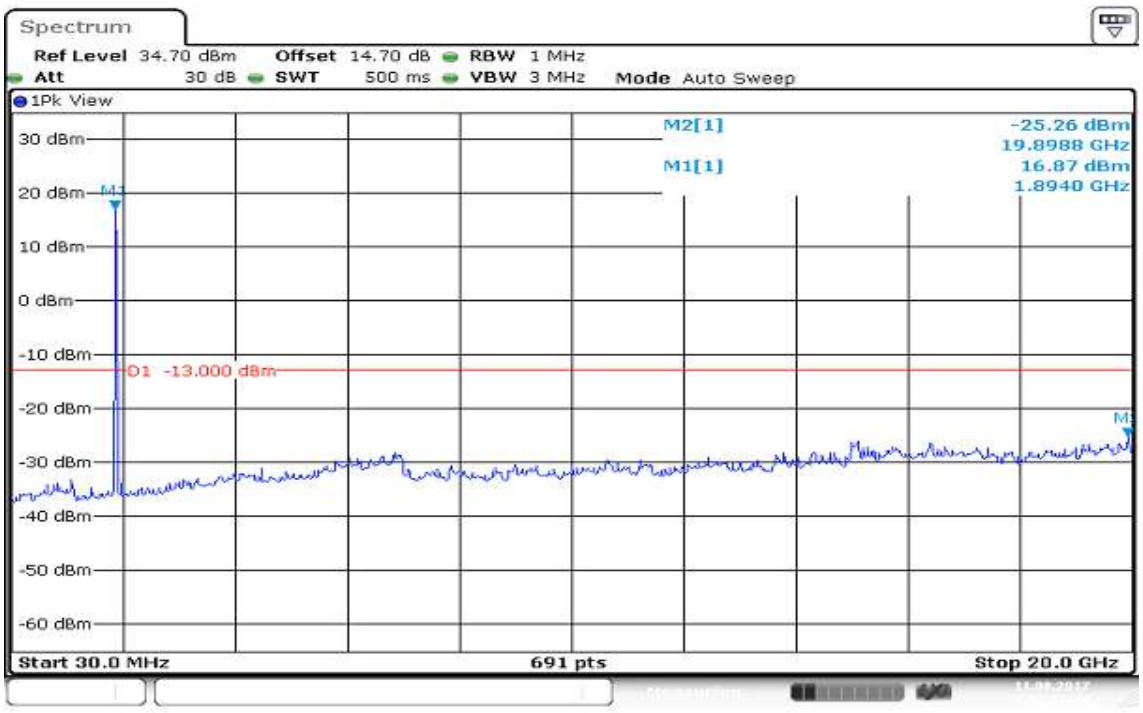

Date: 11.AUG.2017 12:58:40

### CH Mid




Date: 11.AUG.2017 12:57:50

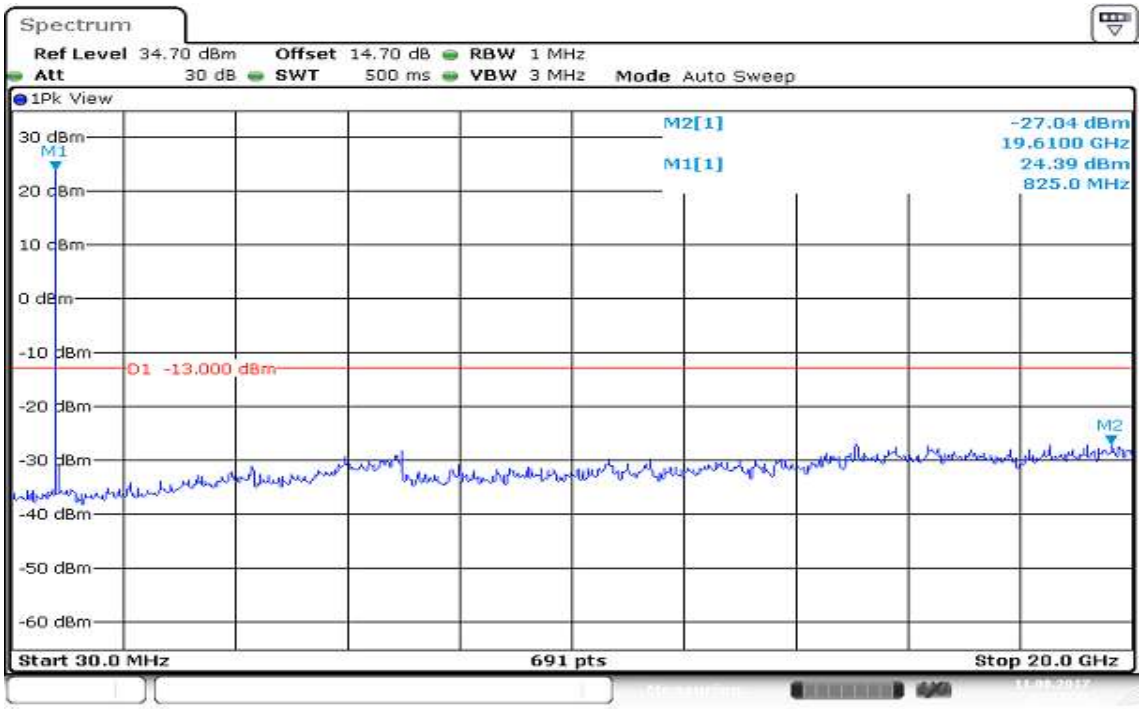
## CH High


Spectrum
Ref Level 34.70 dBm Offset 14.70 dB RBW 1 MHz
Att 30 dB SWT 500 ms VBW 3 MHz Mode Auto Sweep
1Pk View
M2[1] -25.26 dBm
19.8988 GHz
M1[1] 16.87 dBm
1.8940 GHz
30 dBm
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
D1 -13.000 dBm
Start 30.0 MHz
691 pts
Stop 20.0 GHz
Date: 11.AUG.2017 12:59:14

# LTE Band 5

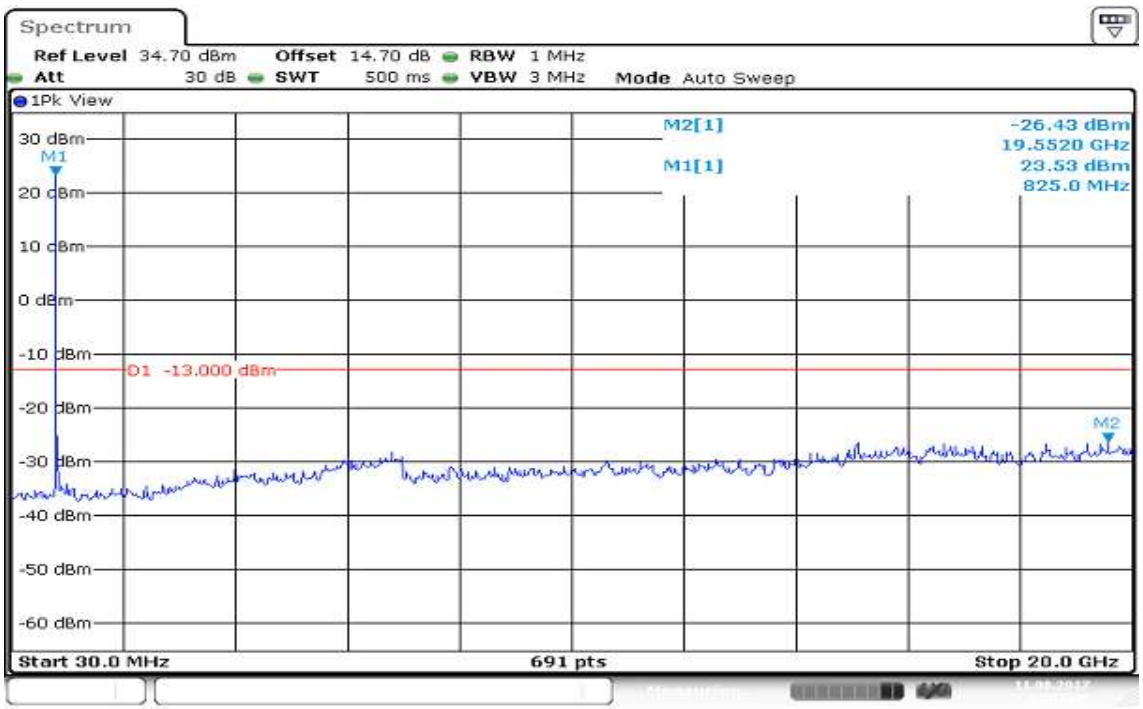
## CHANNEL BANDWIDTH: 1.4MHz / QPSK

### CH Low



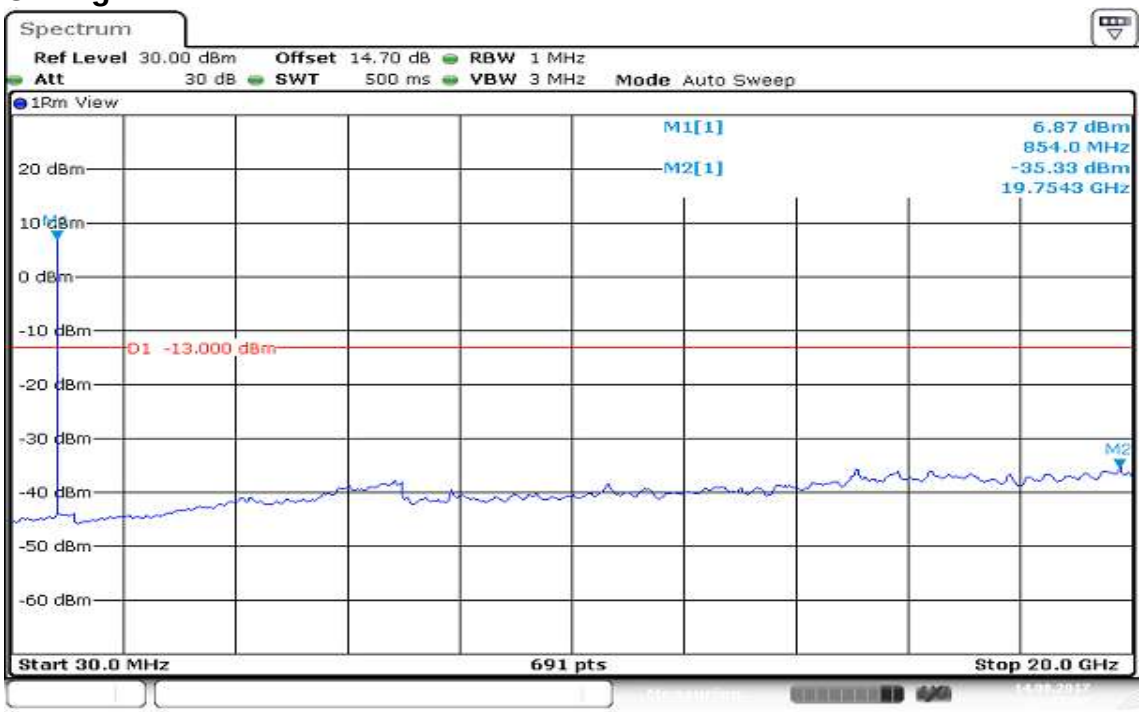

Date: 11.AUG.2017 14:12:12

### CH Mid




Date: 11.AUG.2017 14:11:46

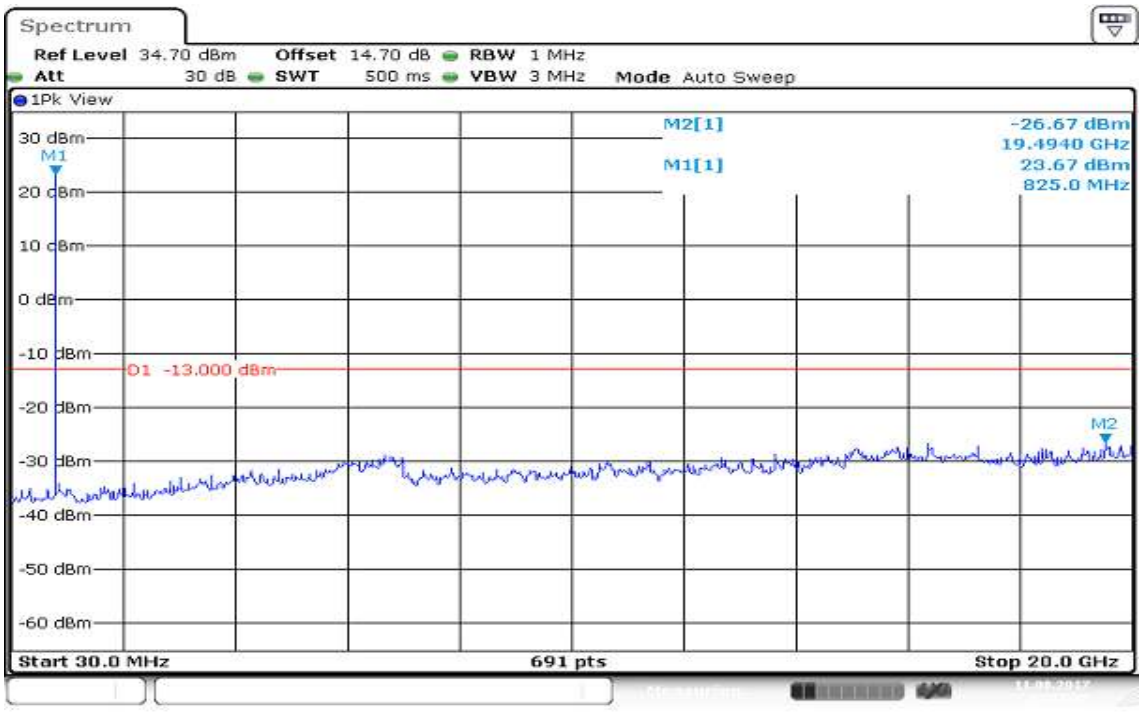
## CH High




Date: 14.AUG.2017 11:37:08

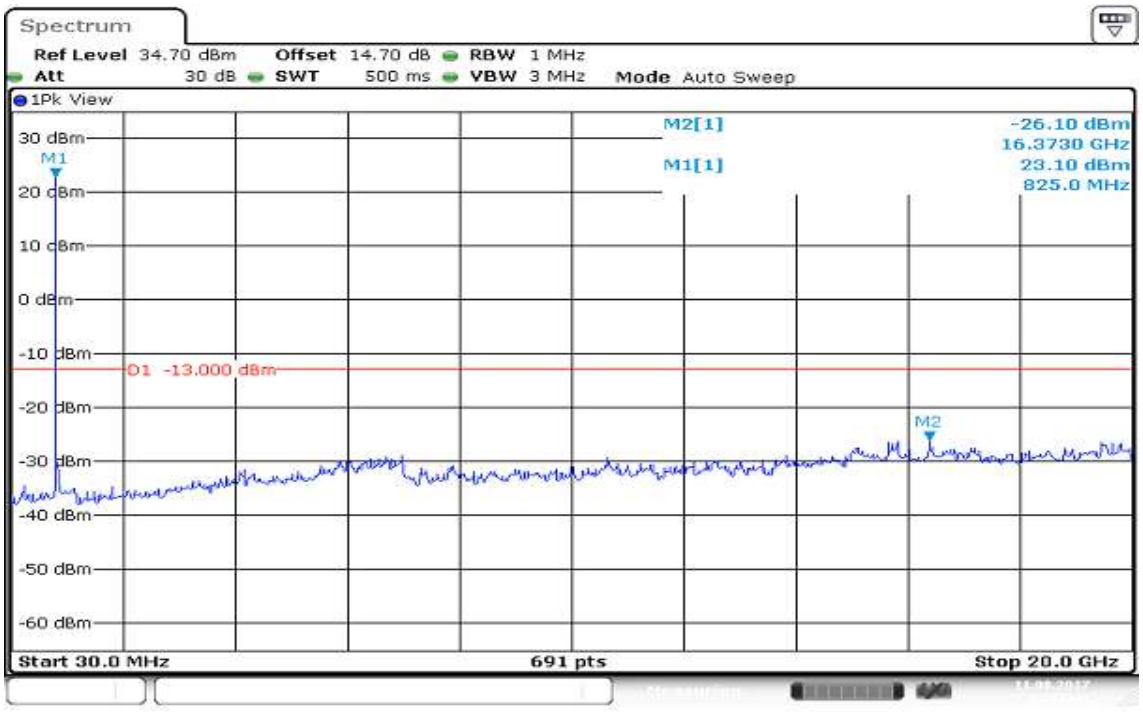
## CHANNEL BANDWIDTH: 1.4MHz / 16QAM

### CH Low



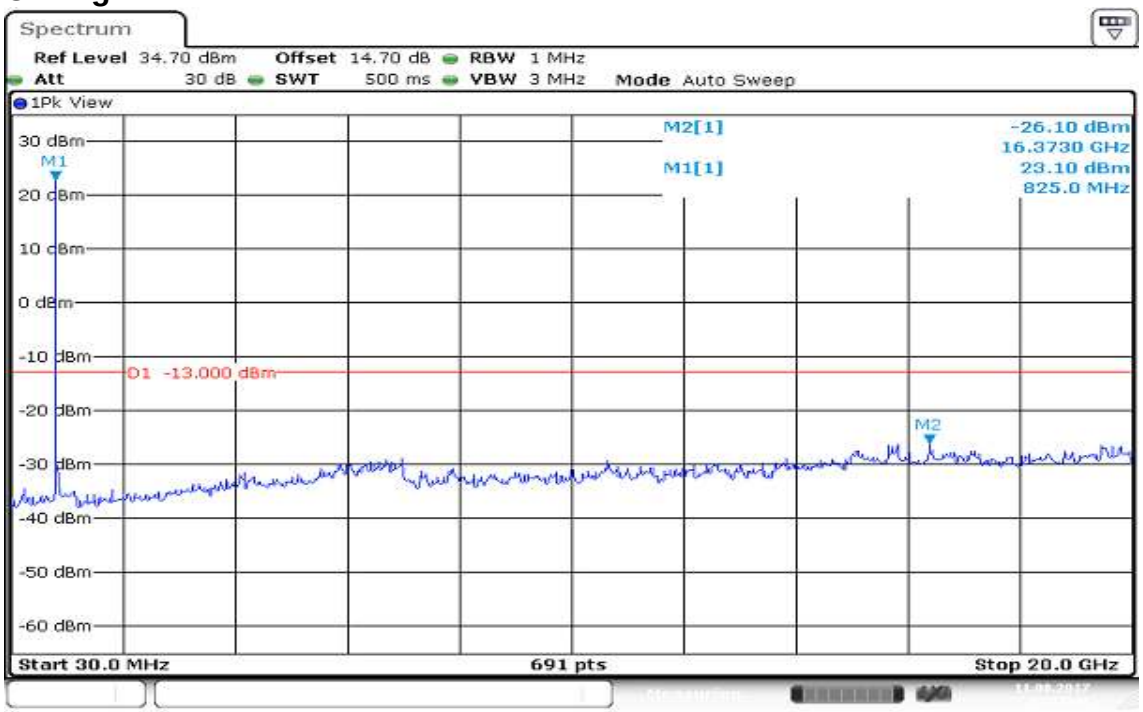

Date: 11.AUG.2017 14:12:38

### CH Mid

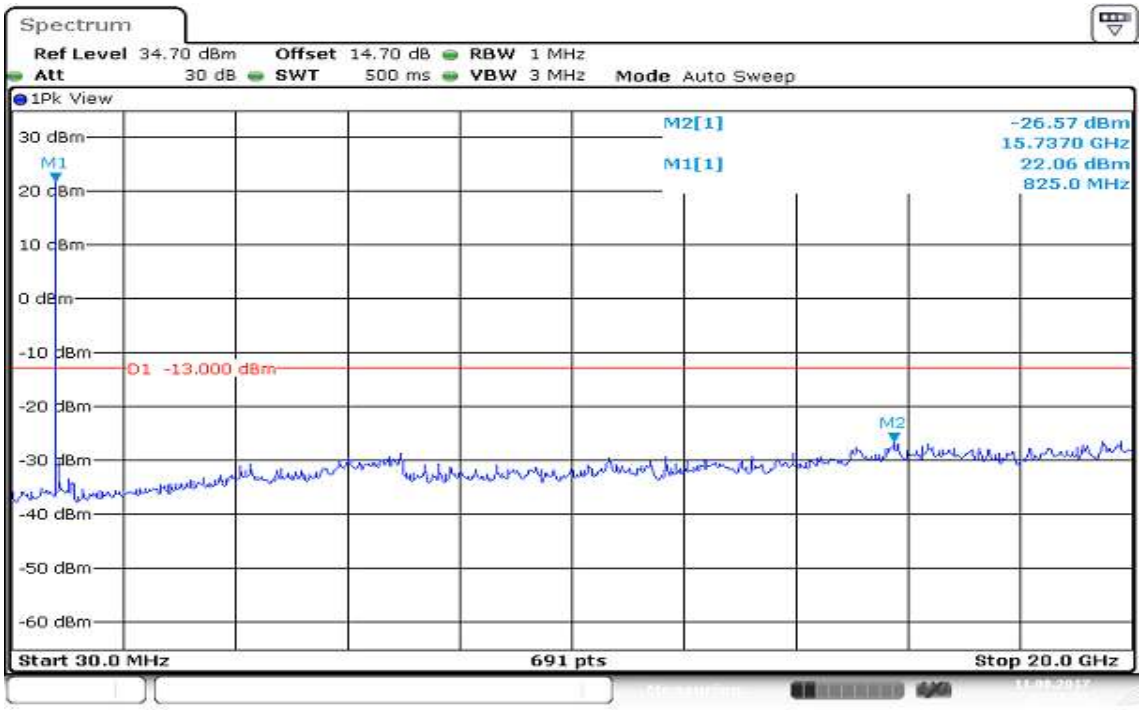



Date: 11.AUG.2017 14:13:42

## CH High

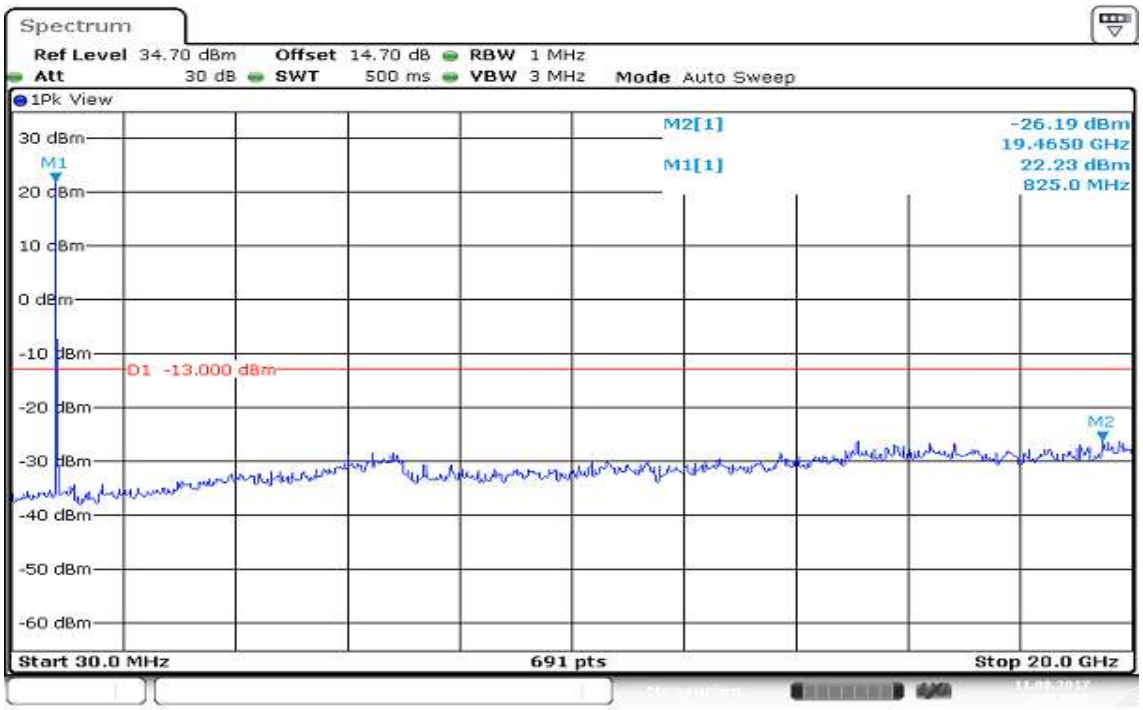

Spectrum
Ref Level 34.70 dBm Offset 14.70 dB RBW 1 MHz
Att 30 dB SWT 500 ms VBW 3 MHz Mode Auto Sweep
1Pk View
M2[1] -26.10 dBm
16.3730 GHz
M1[1] 23.10 dBm
825.0 MHz
30 dBm
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
M1
D1 -13.000 dBm
M2
Start 30.0 MHz
691 pts
Stop 20.0 GHz
Date: 11.AUG.2017 14:13:42

## CHANNEL BANDWIDTH: 3MHz / QPSK
## CH Low



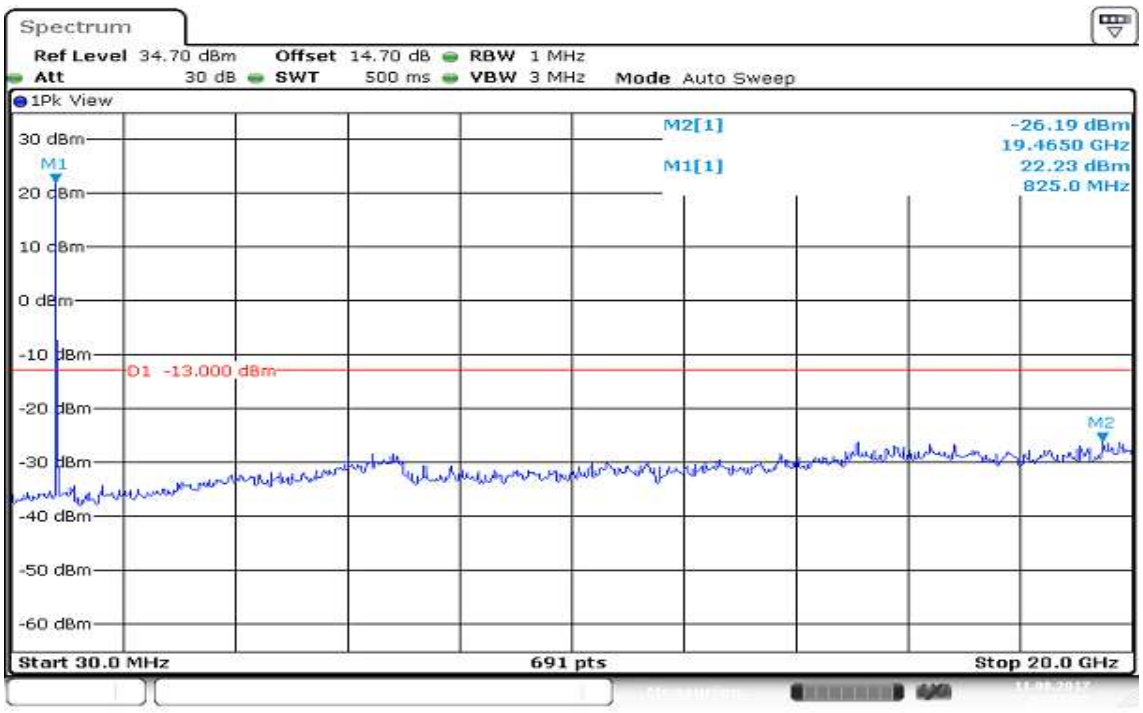

Date: 11.AUG.2017 14:16:51

## CH Mid




Date: 11.AUG.2017 14:17:16

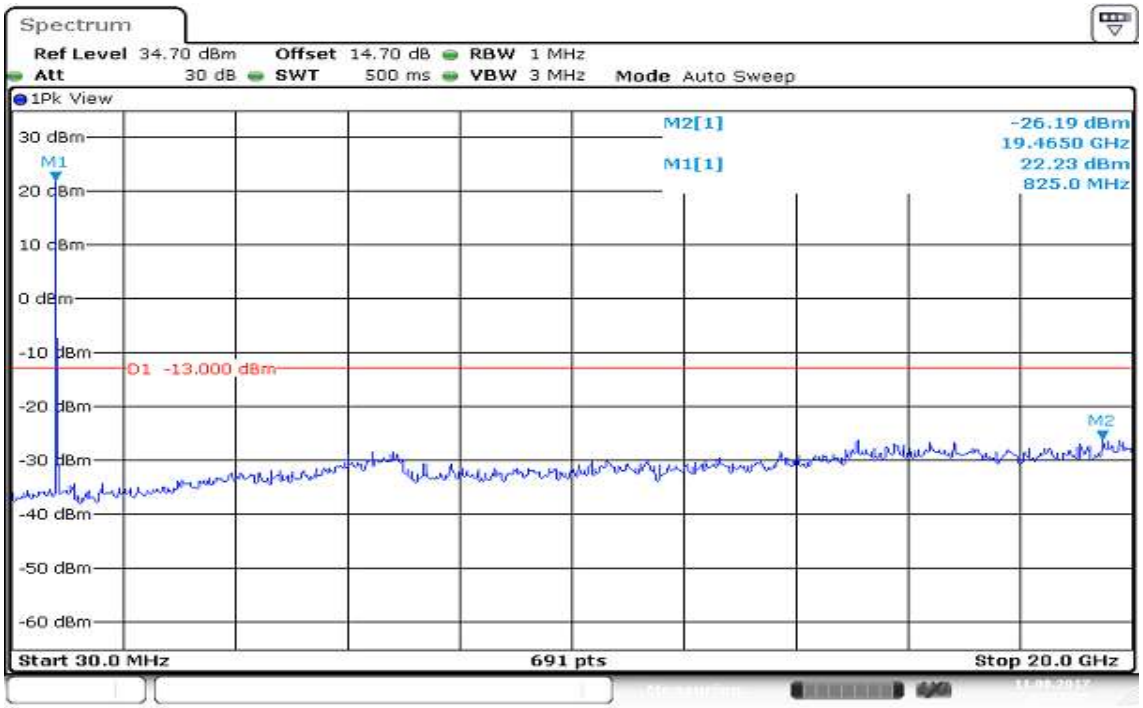
## CH High




Date: 11.AUG.2017 14:17:16

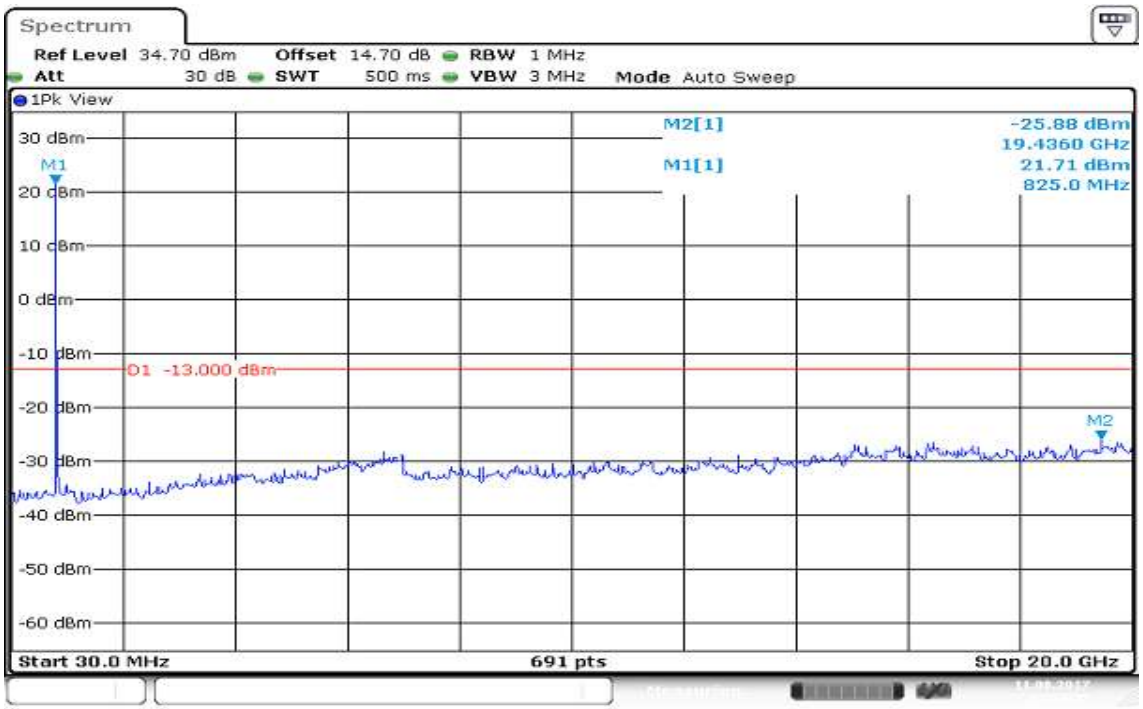
## CHANNEL BANDWIDTH: 3MHz / 16QAM

### CH Low



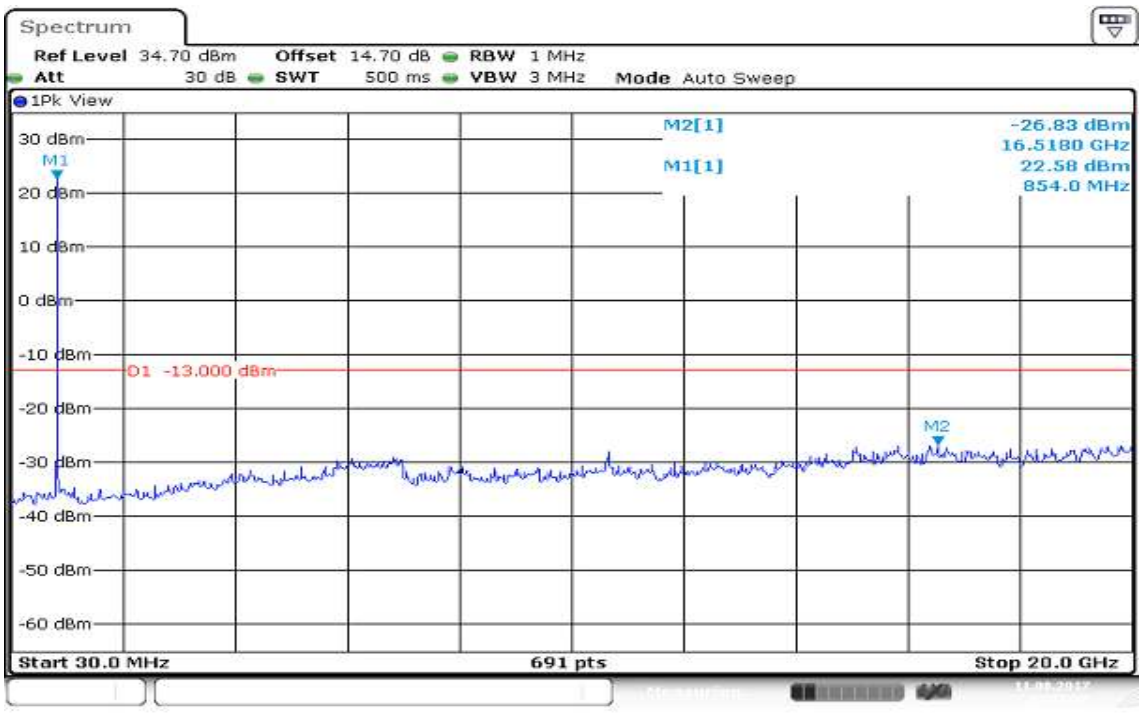

Date: 11.AUG.2017 14:17:16

### CH Mid



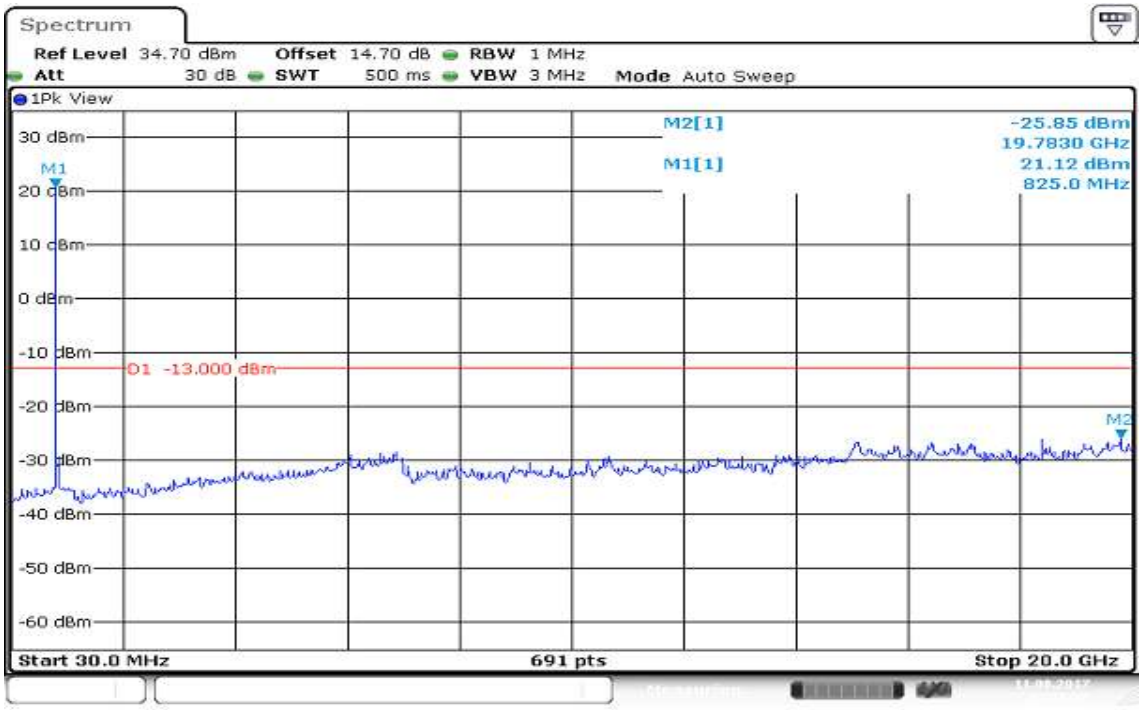

Date: 11.AUG.2017 14:14:25

## CH High



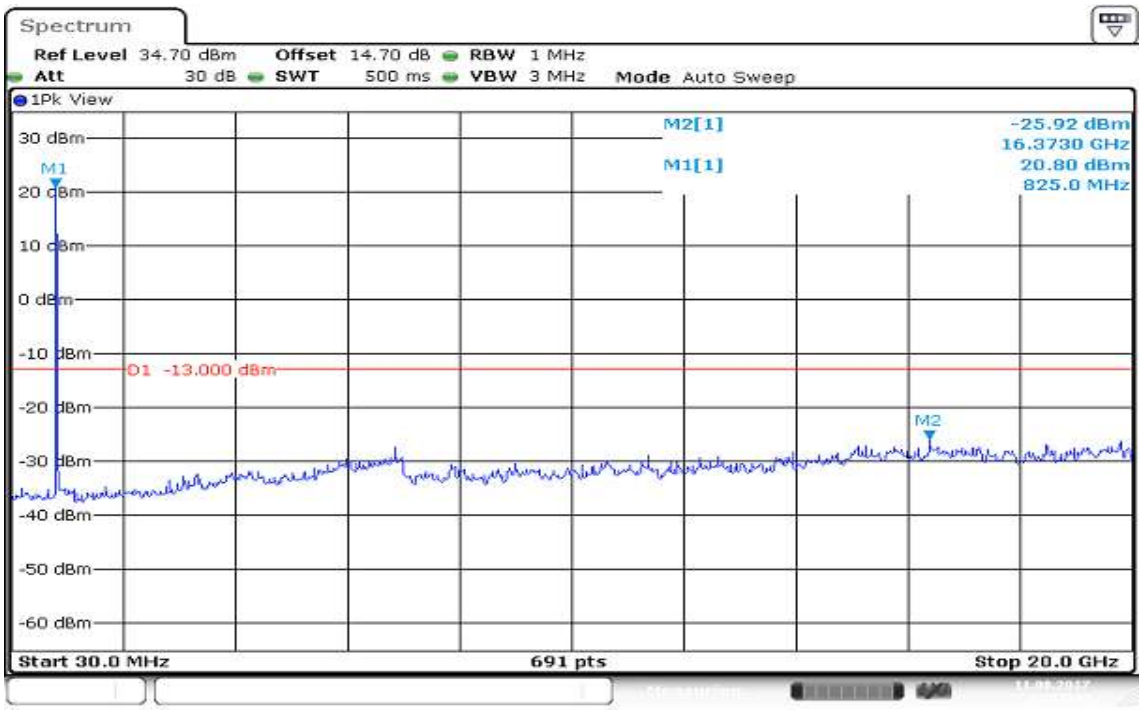

Date: 11.AUG.2017 14:15:26

## CHANNEL BANDWIDTH: 5MHz / QPSK
## CH Low



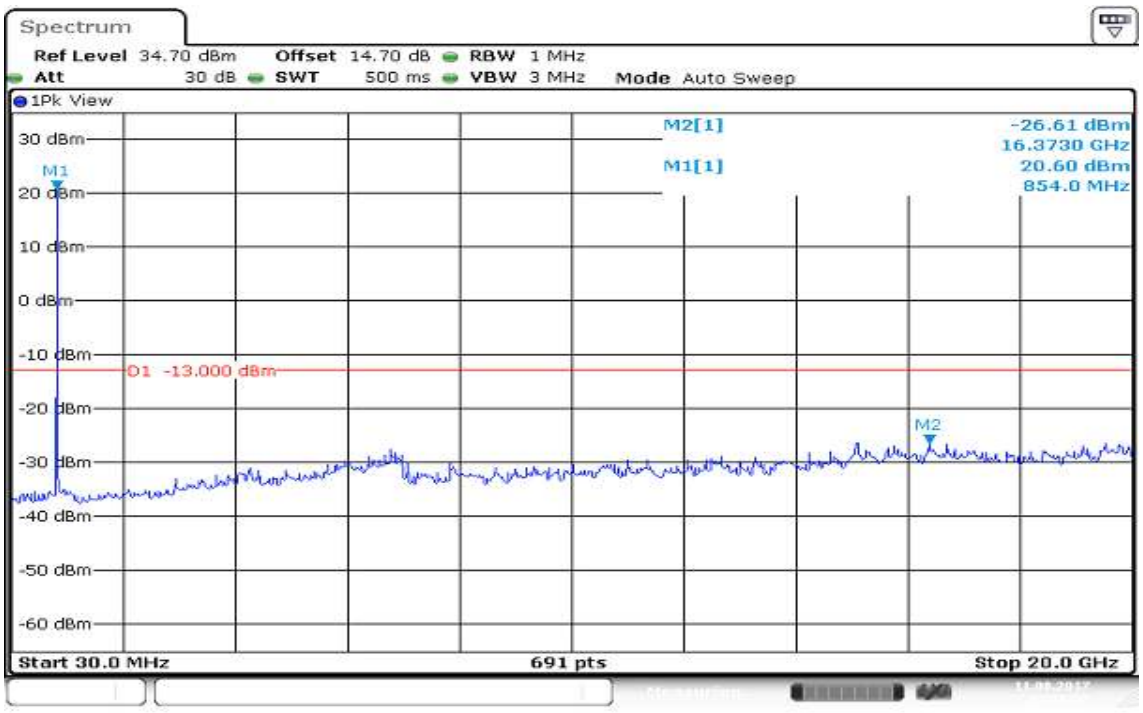

Date: 11.AUG.2017 14:16:27

## CH Mid




Date: 11.AUG.2017 14:17:49

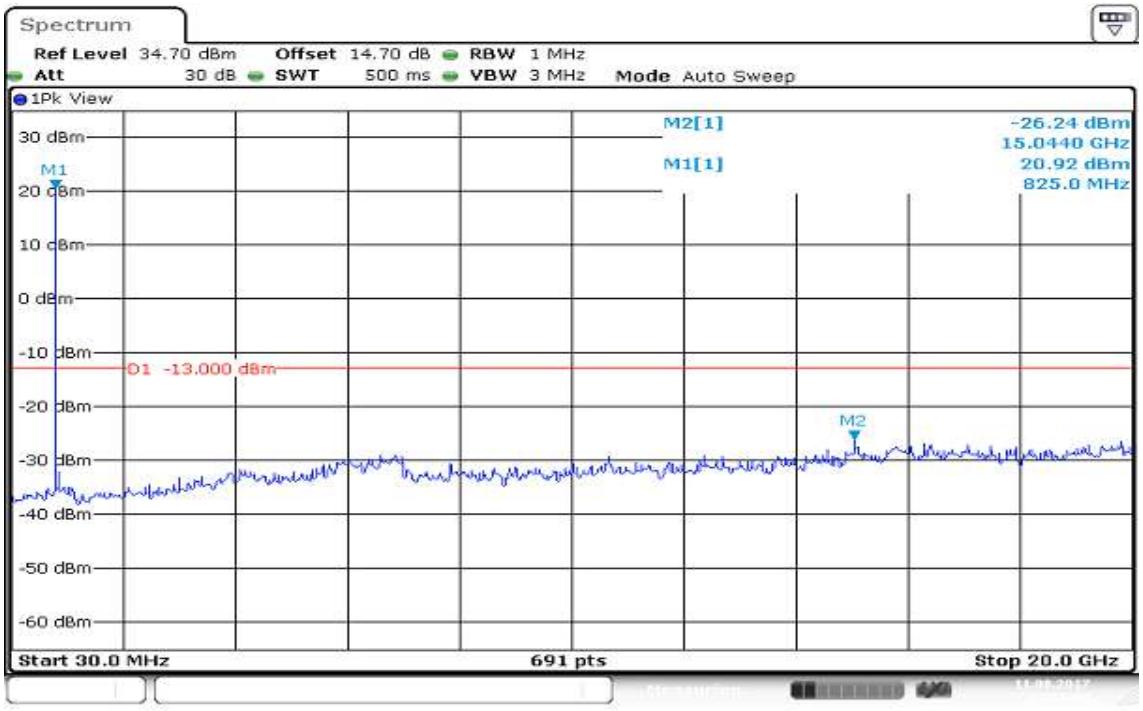
## CH High




Date: 11.AUG.2017 14:18:53

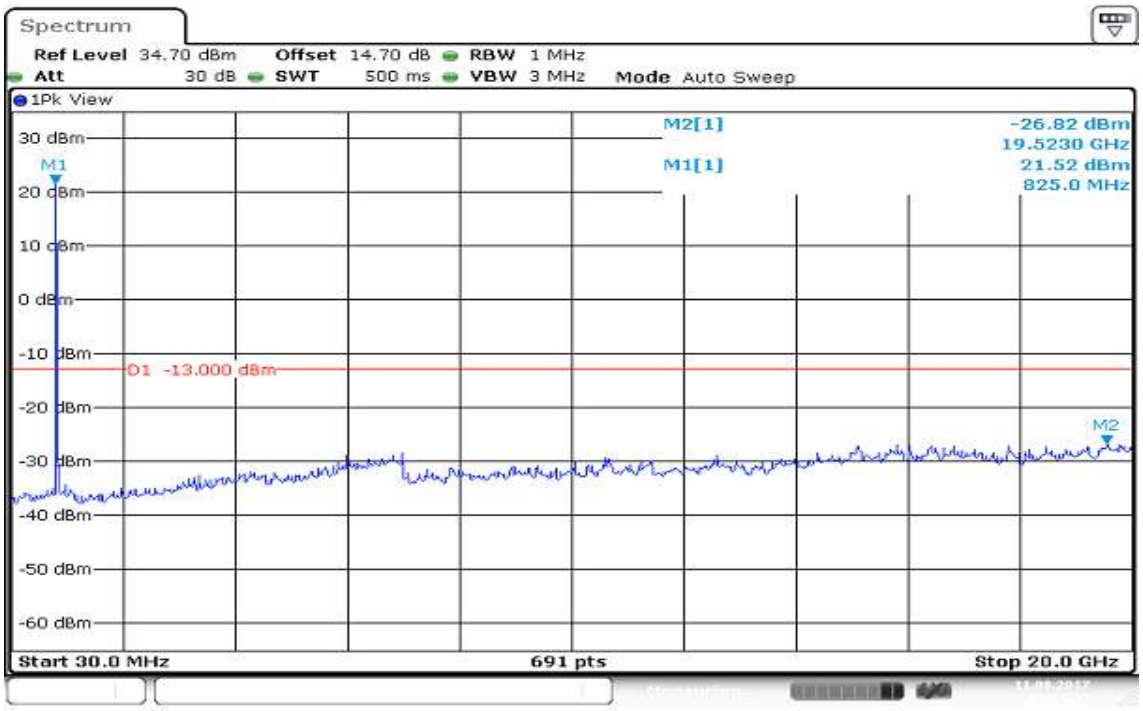
## CHANNEL BANDWIDTH: 5MHz / 16QAM

### CH Low



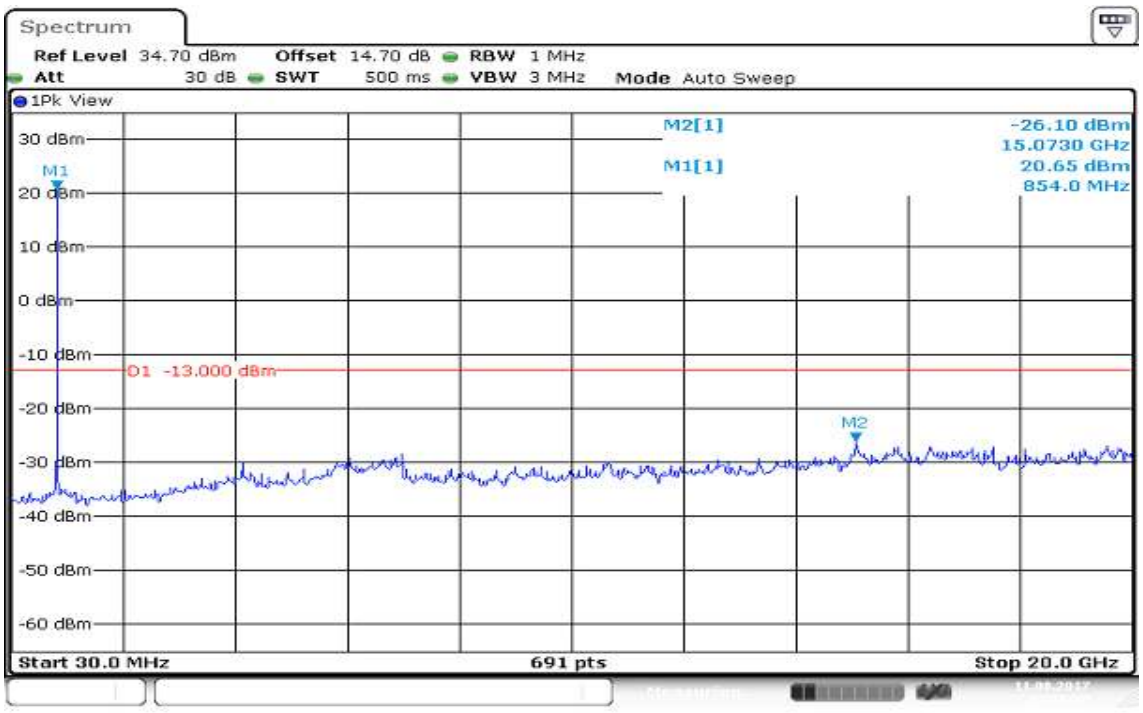

Date: 11.AUG.2017 14:20:04

### CH Mid




Date: 11.AUG.2017 14:20:35

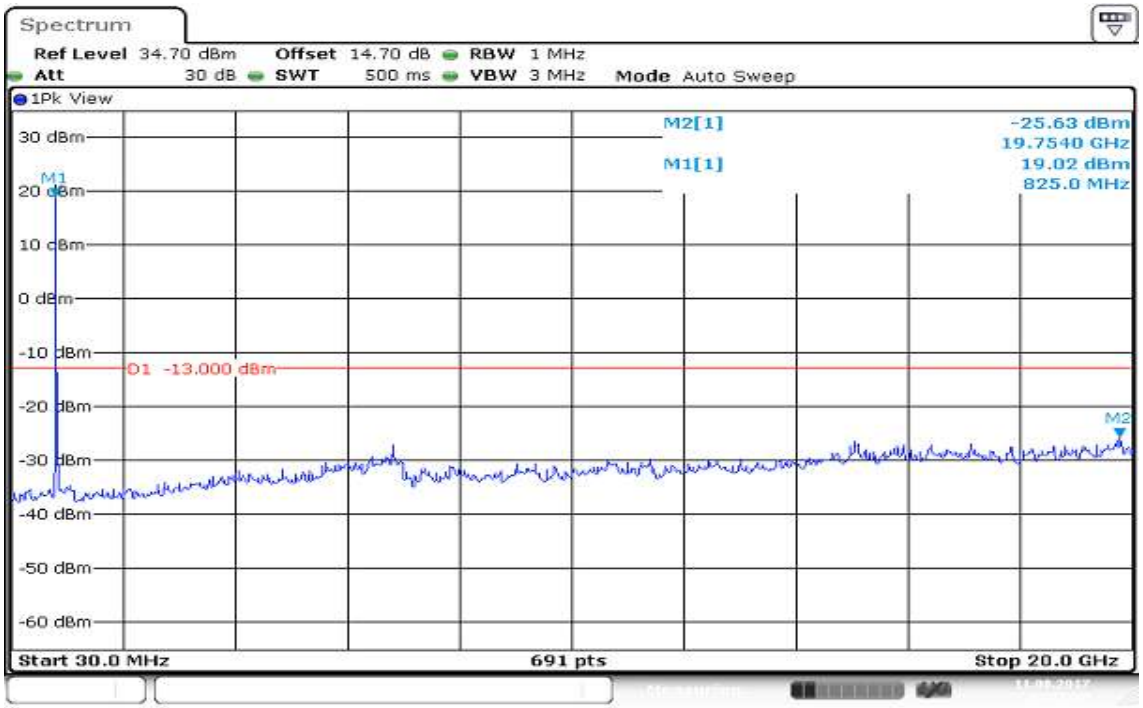
## CH High




Date: 11.AUG.2017 14:19:21

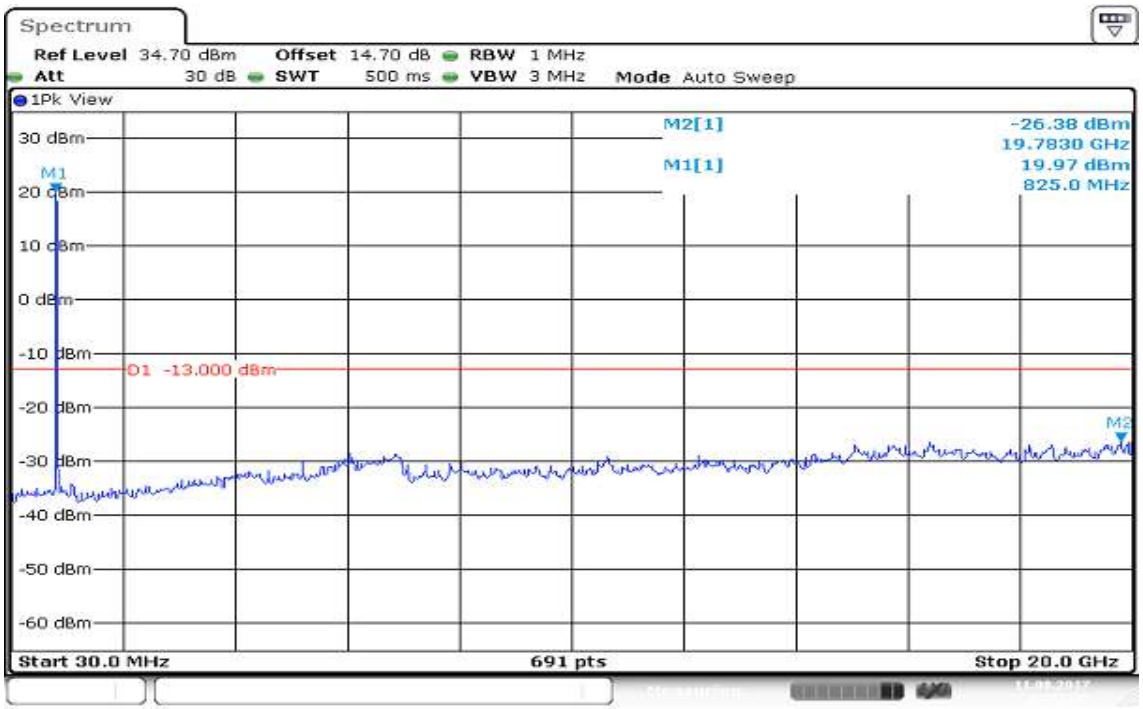
## CHANNEL BANDWIDTH: 10MHz / QPSK

### CH Low



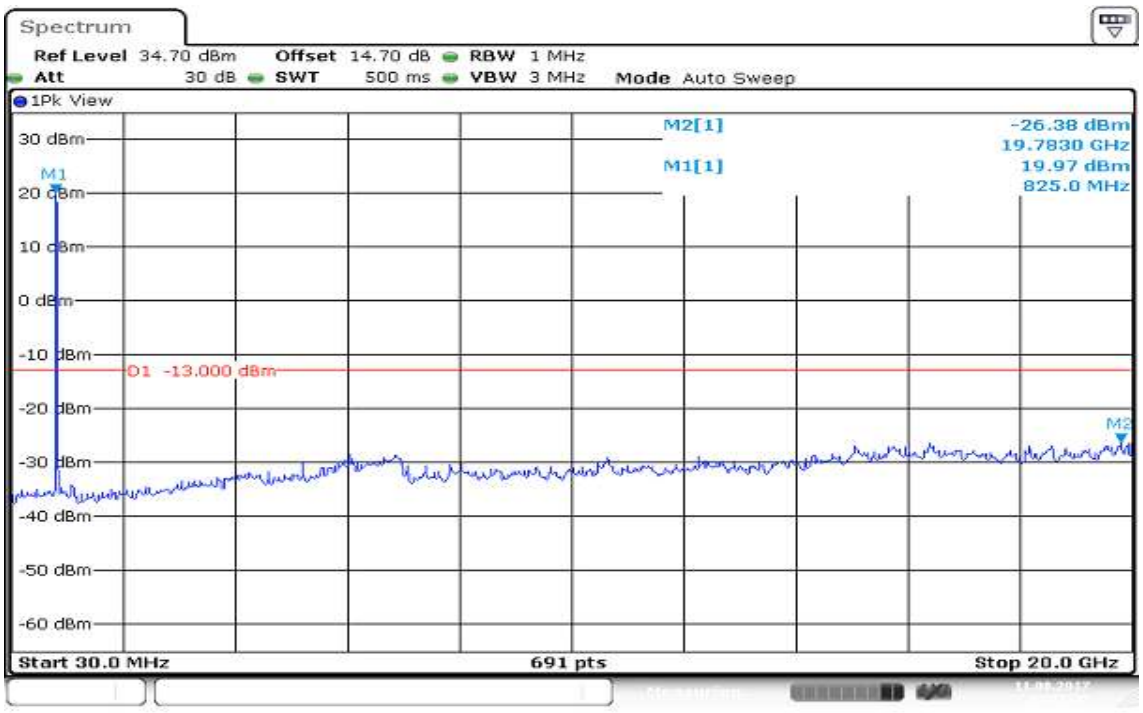

Date: 11.AUG.2017 14:22:20

### CH Mid




Date: 11.AUG.2017 14:21:36

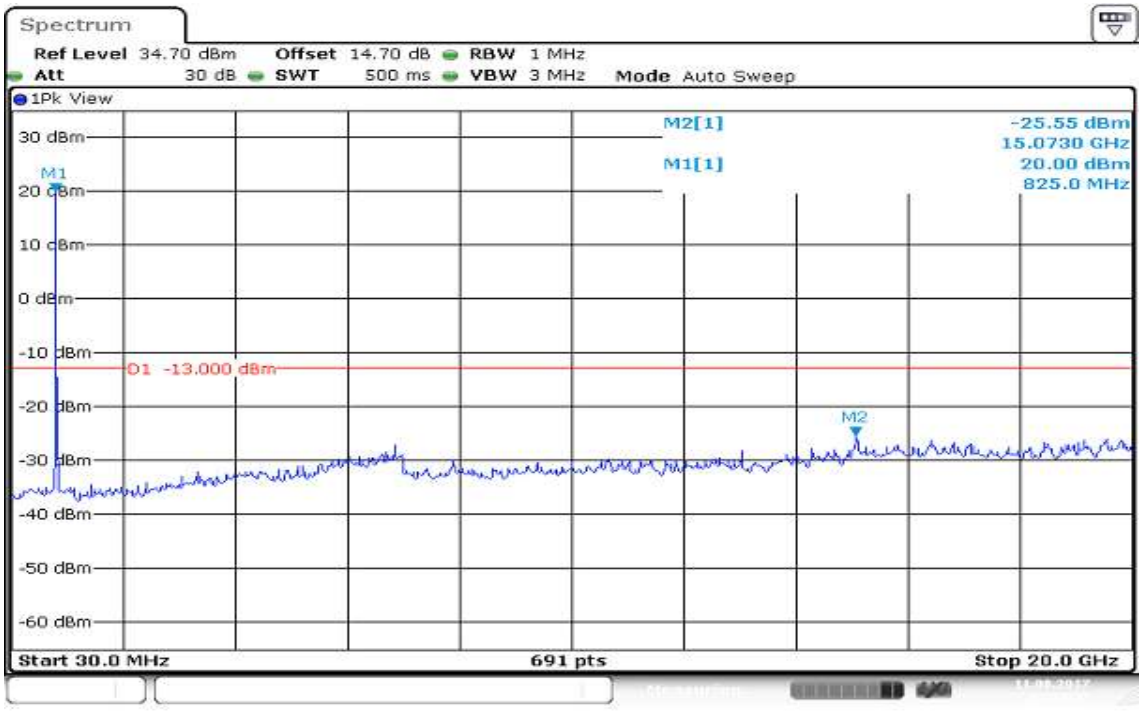
## CH High




Date: 11.AUG.2017 14:21:36

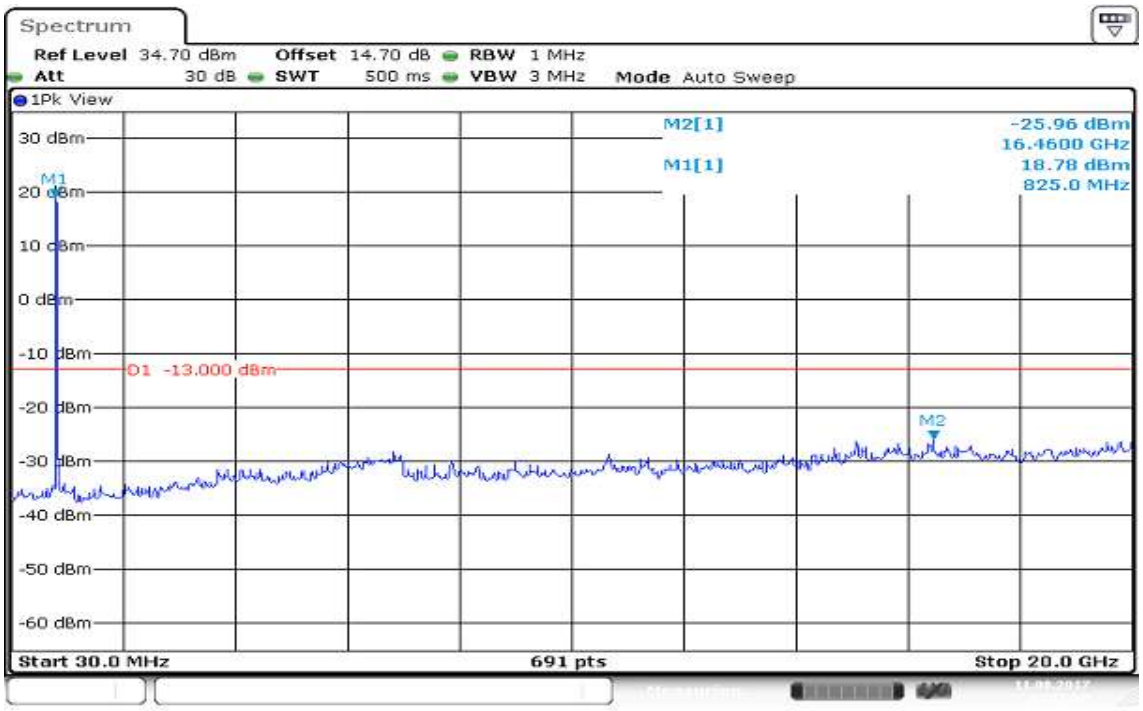
## CHANNEL BANDWIDTH: 10MHz / 16QAM

### CH Low



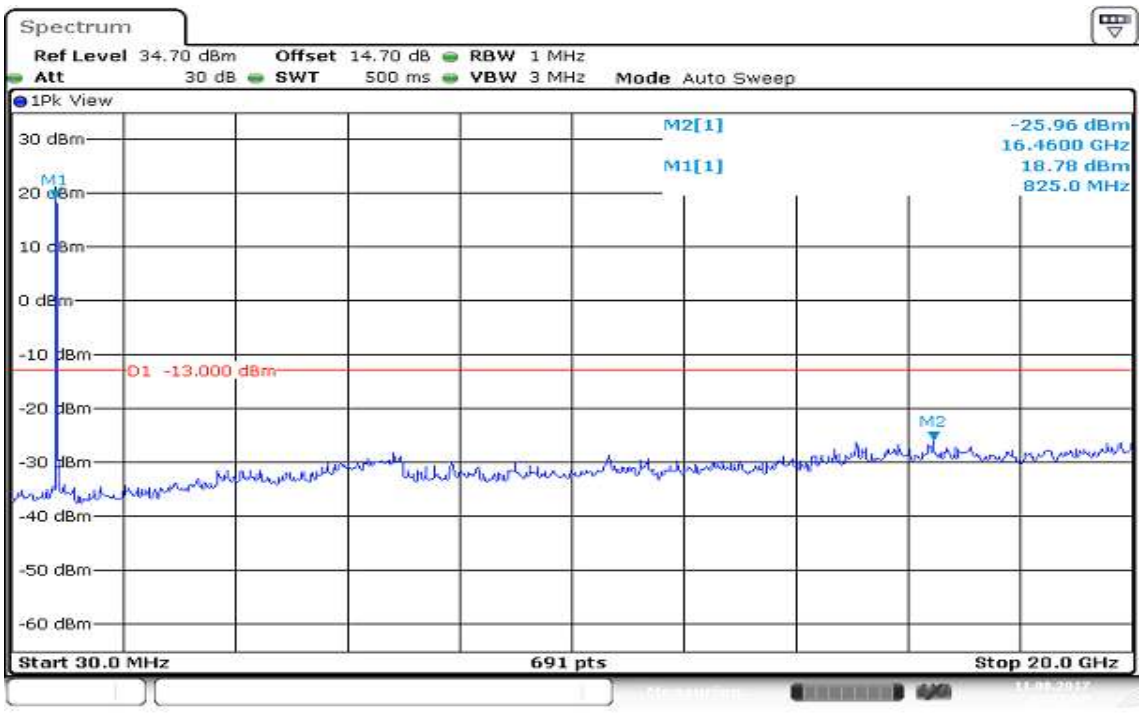

Date: 11.AUG.2017 14:24:24

### CH Mid




Date: 11.AUG.2017 14:23:50

## CH High




Date: 11.AUG.2017 14:23:50

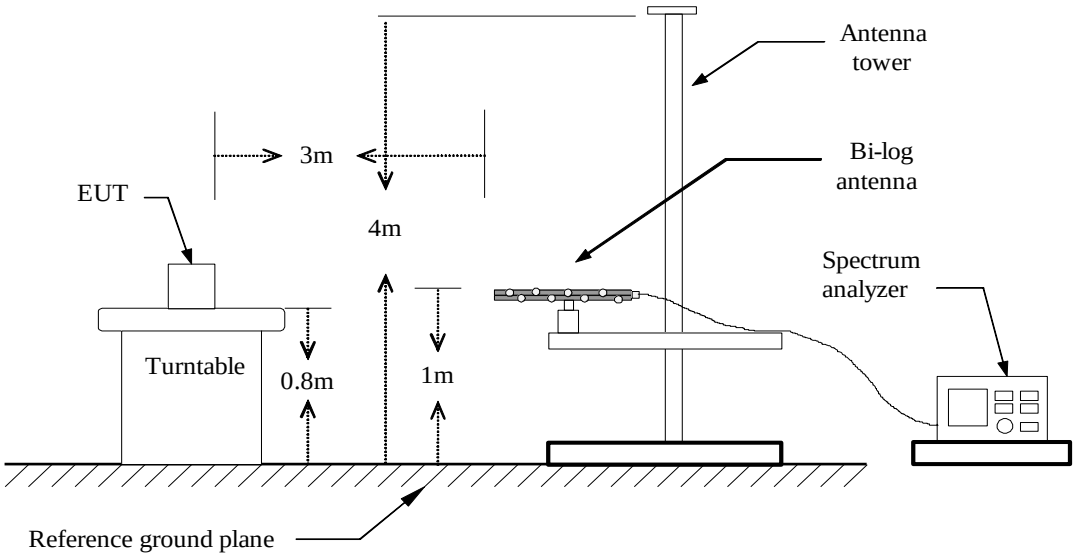
# 7.8 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

## LIMIT

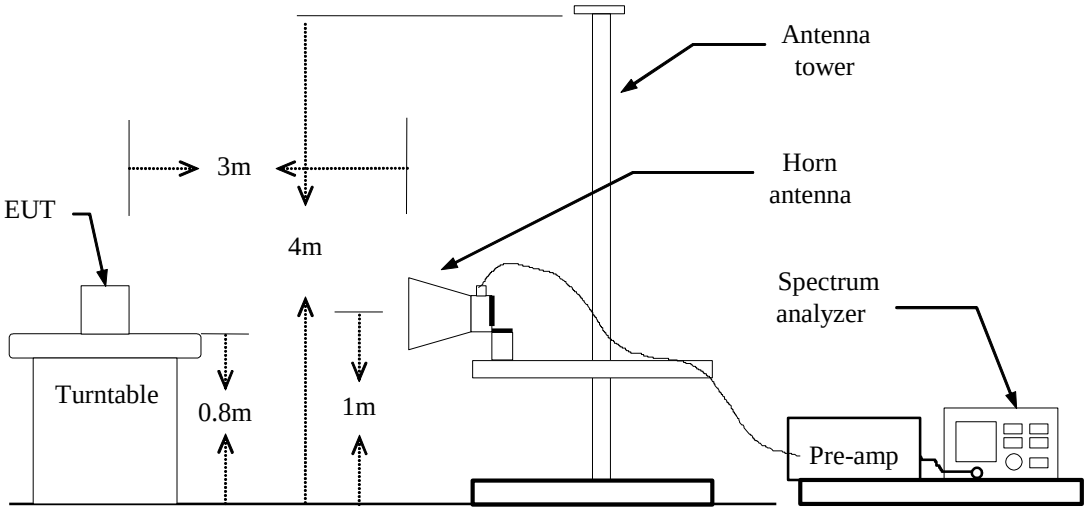
According to FCC §2.1053

### Test Configuration

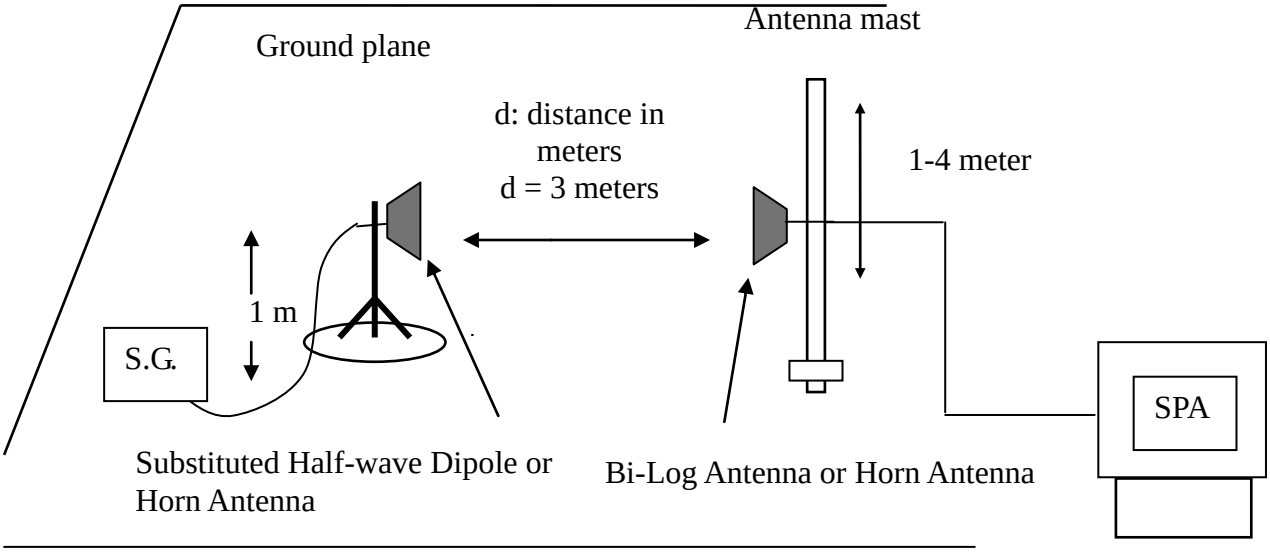
**Below 1 GHz**




**Above 1 GHz**



**Substituted Method Test Set-up**




## TEST PROCEDURE

The EUT was placed on a non-conductive, the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission were identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

ERP = S.G. output (dBm) + Antenna Gain (dBd) – Cable (dB)

EIRP = S.G. output (dBm) + Antenna Gain (dBi) – Cable (dB)

## TEST RESULTS

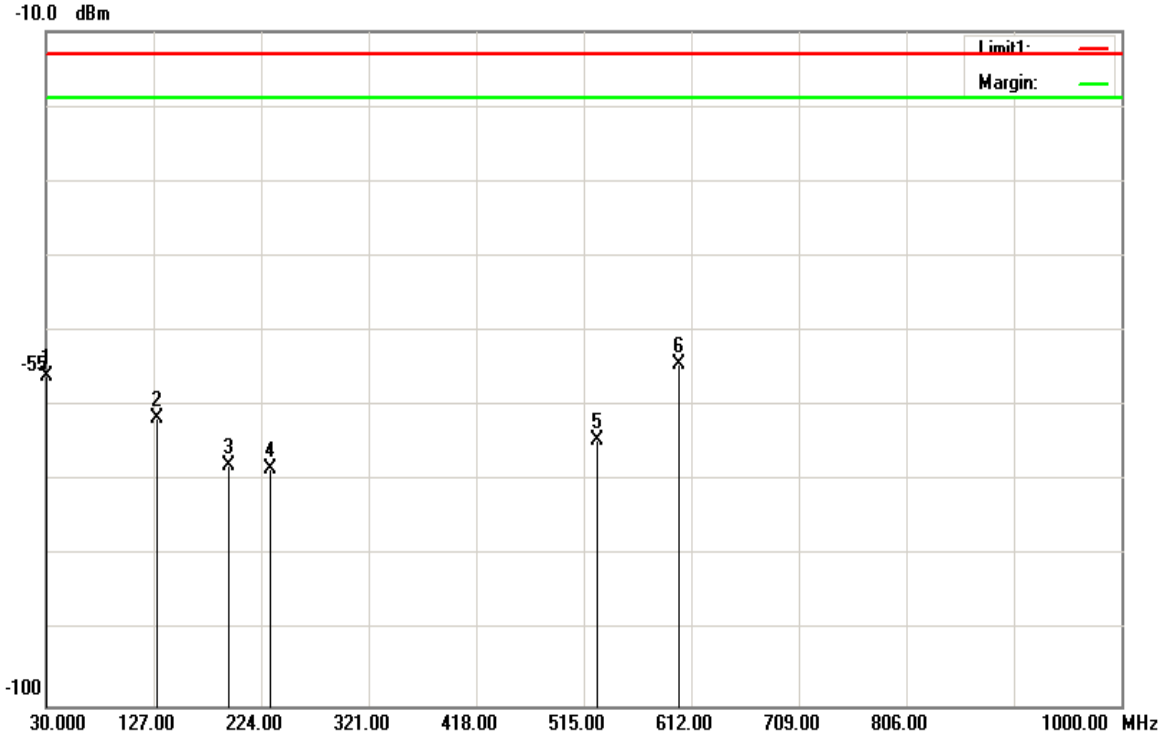
*Refer to the attached tabular data sheets.*

## Test Results

## Below 1GHz

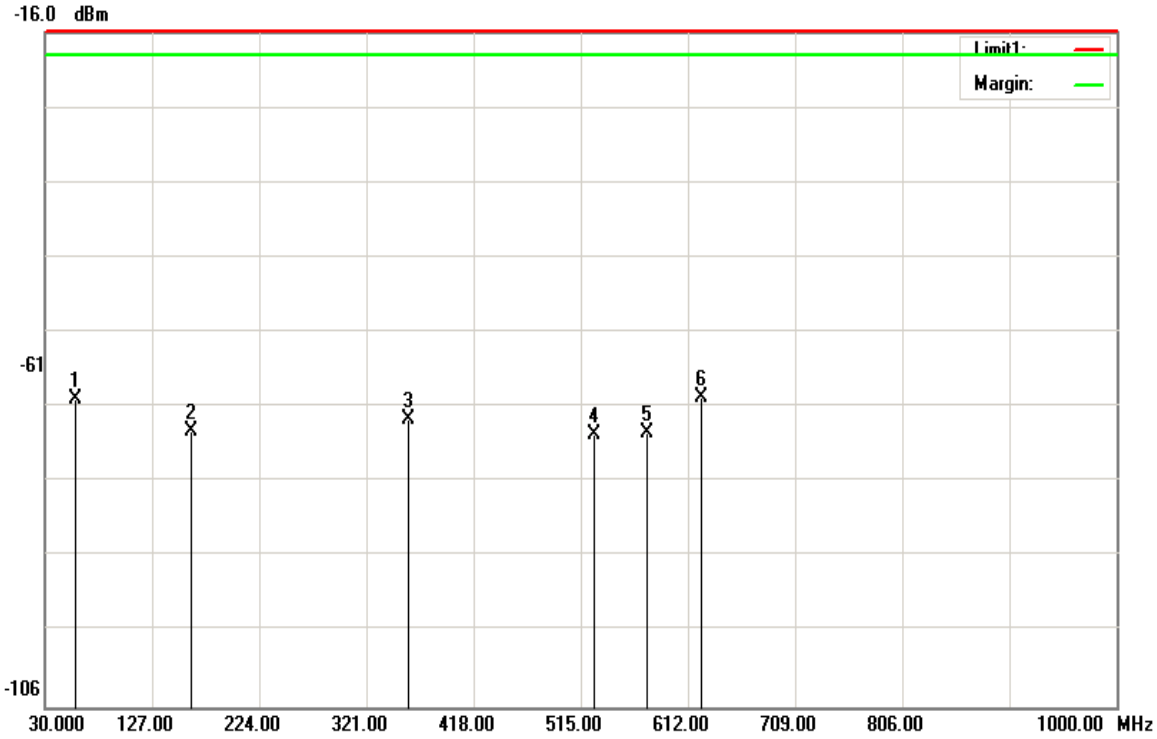
**LTE Band 2 / BW: 20MHz / QPSK / RB =1, RB Offset = 0**

| | | | |
|---|---|---|---|
| **Operation Mode:** | Tx / Mid CH | **Test Date:** | Aug 15, 2017 |
| **Temperature:** | 21°C | **Tested by:** | Kevin Kuo |
| **Humidity:** | 52% RH | **Polarity:** | Ver. |




| Frequency (MHz) | S.G. (dBm) | Ant.Gain (dBi) | Emission level (dBm) | Limit (dBm) | Margin (dB) | Antenna Polarization (V/H) |
|---|---|---|---|---|---|---|
| 30.0000 | -50.26 | -5.7 | -55.96 | -13.00 | -42.96 | V |
| 129.9100 | -62.58 | 1.05 | -61.53 | -13.00 | -48.53 | V |
| 194.9000 | -71.99 | 4.1 | -67.89 | -13.00 | -54.89 | V |
| 231.7600 | -74.48 | 6.2 | -68.28 | -13.00 | -55.28 | V |
| 527.6100 | -71.39 | 6.83 | -64.56 | -13.00 | -51.56 | V |
| 600.3600 | -52.87 | -1.56 | -54.43 | -13.00 | -41.43 | V |

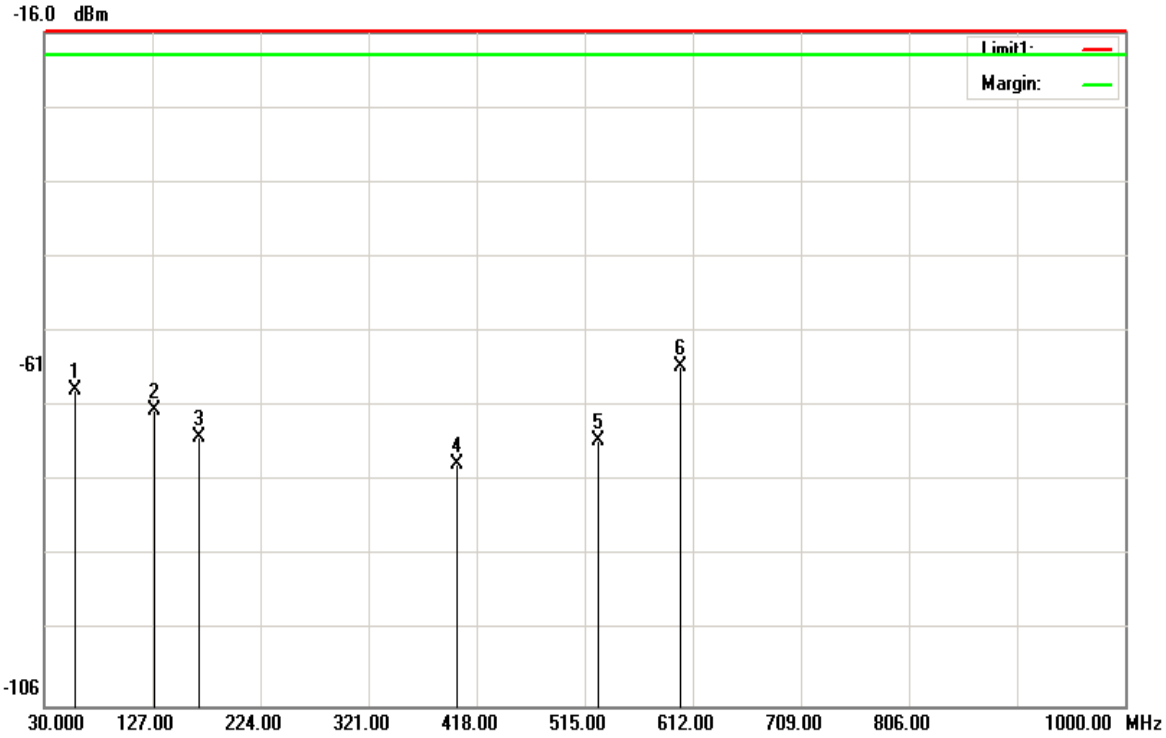
| | | | |
|---|---|---|---|
| **Operation Mode:** | Tx / Mid CH | **Test Date:** | Aug 15, 2017 |
| **Temperature:** | 21°C | **Tested by:** | Kevin Kuo |
| **Humidity:** | 52% RH | **Polarity:** | Hor. |




| Frequency (MHz) | S.G. (dBm) | Ant.Gain (dBi) | Emission level (dBm) | Limit (dBm) | Margin (dB) | Antenna Polarization (V/H) |
|---|---|---|---|---|---|---|
| 57.1600 | -63.47 | -1.58 | -65.05 | -13.00 | -52.05 | H |
| 162.8900 | -69.23 | 0.08 | -69.15 | -13.00 | -56.15 | H |
| 358.8300 | -74.77 | 7.14 | -67.63 | -13.00 | -54.63 | H |
| 527.6100 | -76.53 | 6.83 | -69.70 | -13.00 | -56.70 | H |
| 575.1400 | -72.07 | 2.61 | -69.46 | -13.00 | -56.46 | H |
| 624.6100 | -64.5 | -0.17 | -64.67 | -13.00 | -51.67 | H |

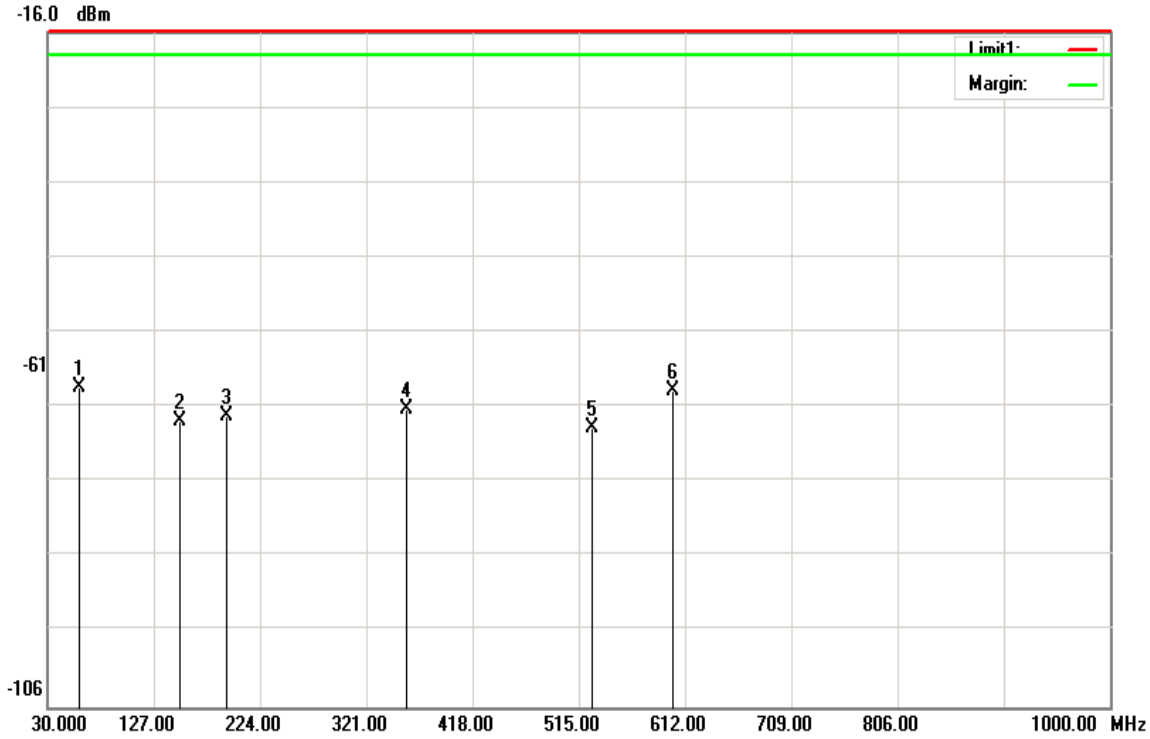
**LTE Band 2 / BW: 20MHz / 16QAM / RB =1, RB Offset = 0**

| | | | |
|---|---|---|---|
| **Operation Mode:** | Tx / Mid CH | **Test Date:** | Aug 15, 2017 |
| **Temperature:** | 21°C | **Tested by:** | Kevin Kuo |
| **Humidity:** | 52% RH | **Polarity:** | Ver. |




| Frequency (MHz) | S.G. (dBm) | Ant.Gain (dBi) | Emission level (dBm) | Limit (dBm) | Margin (dB) | Antenna Polarization (V/H) |
|---|---|---|---|---|---|---|
| 58.1300 | -62.3 | -1.49 | -63.79 | -13.00 | -50.79 | V |
| 128.9400 | -67.45 | 1.03 | -66.42 | -13.00 | -53.42 | V |
| 168.7100 | -71.49 | 1.45 | -70.04 | -13.00 | -57.04 | V |
| 400.5400 | -81 | 7.3 | -73.70 | -13.00 | -60.70 | V |
| 527.6100 | -77.3 | 6.83 | -70.47 | -13.00 | -57.47 | V |
| 600.3600 | -59.16 | -1.56 | -60.72 | -13.00 | -47.72 | V |

| | | | |
|---|---|---|---|
| **Operation Mode:** | Tx / Mid CH | **Test Date:** | Aug 15, 2017 |
| **Temperature:** | 21°C | **Tested by:** | Kevin Kuo |
| **Humidity:** | 52% RH | **Polarity:** | Hor. |

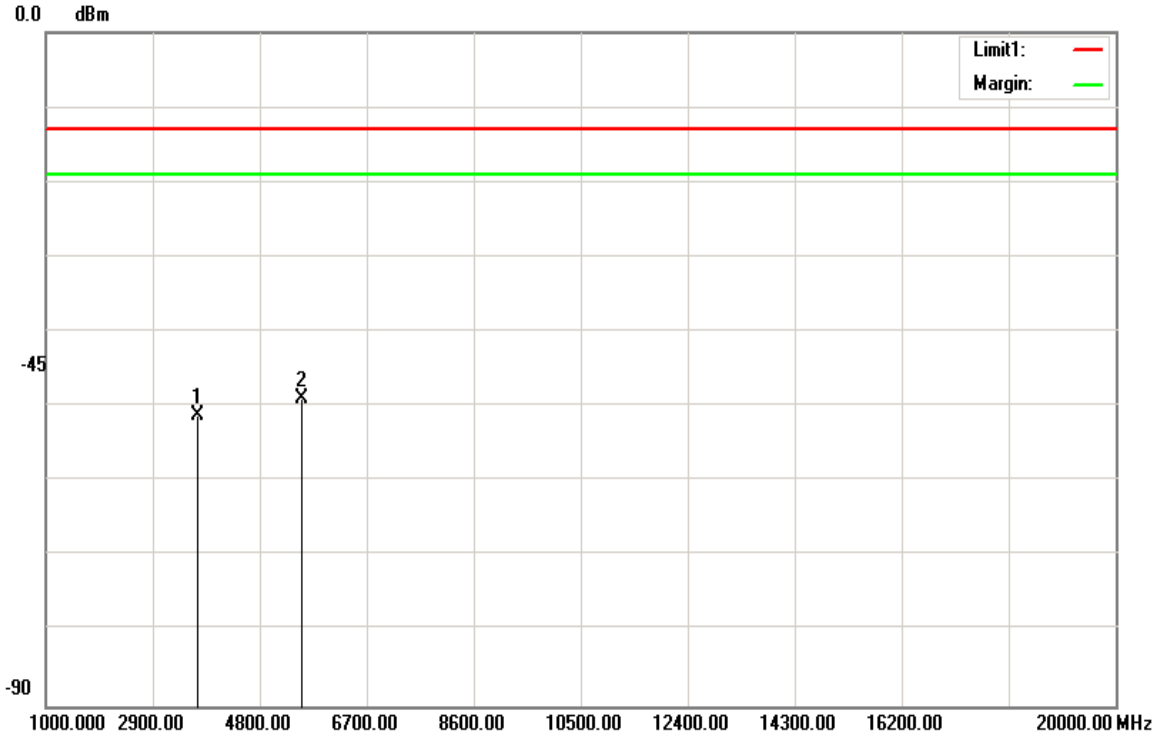



| Frequency (MHz) | S.G. (dBm) | Ant.Gain (dBi) | Emission level (dBm) | Limit (dBm) | Margin (dB) | Antenna Polarization (V/H) |
|---|---|---|---|---|---|---|
| 59.1000 | -61.86 | -1.39 | -63.25 | -13.00 | -50.25 | H |
| 150.2800 | -68.17 | 0.27 | -67.90 | -13.00 | -54.90 | H |
| 193.9300 | -71.33 | 4.1 | -67.23 | -13.00 | -54.23 | H |
| 357.8600 | -73.52 | 7.13 | -66.39 | -13.00 | -53.39 | H |
| 527.6100 | -75.6 | 6.83 | -68.77 | -13.00 | -55.77 | H |
| 600.3600 | -62.31 | -1.56 | -63.87 | -13.00 | -50.87 | H |

## Above 1GHz

**LTE Band 2 / BW: 20MHz / QPSK RB =1, RB Offset = 0**

| | | | |
|---|---|---|---|
| **Operation Mode:** | Tx / Low CH | **Test Date:** | Aug 18, 2017 |
| **Temperature:** | 21°C | **Tested by:** | Kevin Kuo |
| **Humidity:** | 52% RH | **Polarity:** | Ver. |




| Frequency (MHz) | S.G. (dBm) | Ant.Gain (dBi) | Emission level (dBm) | Limit (dBm) | Margin (dB) | Antenna Polarization (V/H) |
|---|---|---|---|---|---|---|
| 3702.000 | -63.72 | 12.54 | -51.18 | -13.00 | -38.18 | V |
| 5550.000 | -61.82 | 12.88 | -48.94 | -13.00 | -35.94 | V |
| N/A | | | | | | |
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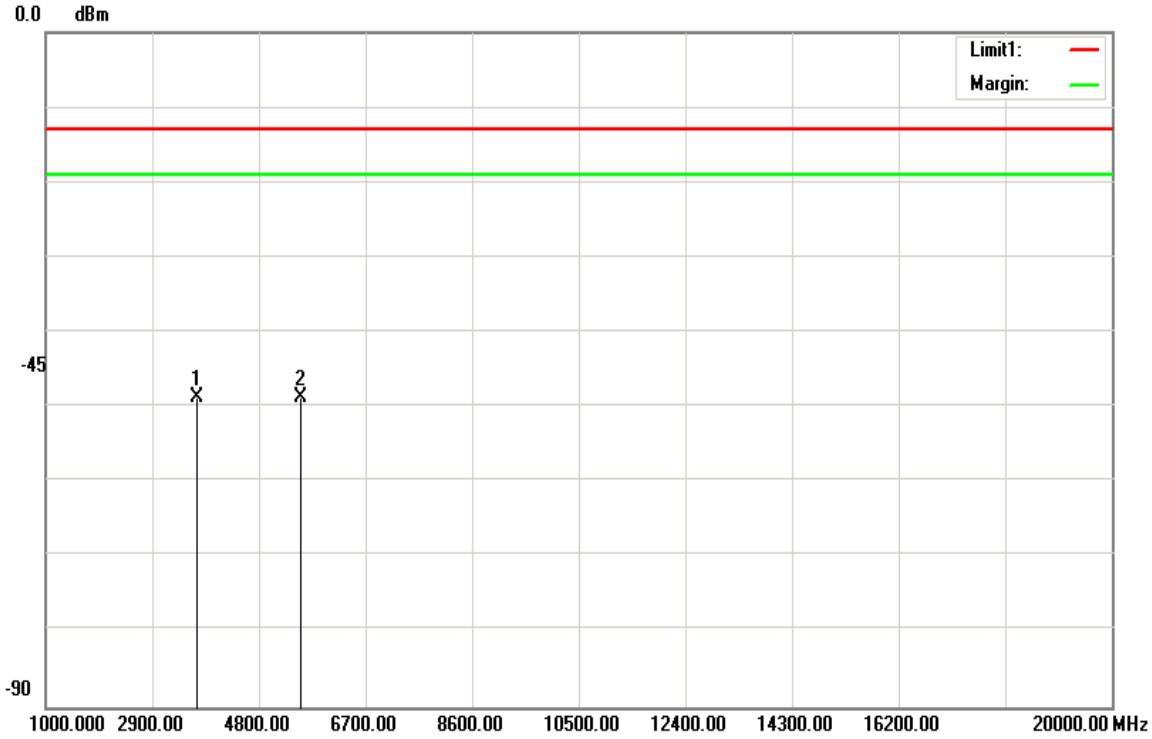
***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*

| | | | |
|---|---|---|---|
| **Operation Mode:** | Tx / Low CH | **Test Date:** | Aug 18, 2017 |
| **Temperature:** | 21°C | **Tested by:** | Kevin Kuo |
| **Humidity:** | 52% RH | **Polarity:** | Hor. |




| Frequency (MHz) | S.G. (dBm) | Ant.Gain (dBi) | Emission level (dBm) | Limit (dBm) | Margin (dB) | Antenna Polarization (V/H) |
|---|---|---|---|---|---|---|
| 3702.000 | -61.32 | 12.54 | -48.78 | -13.00 | -35.78 | H |
| 5550.000 | -61.57 | 12.88 | -48.69 | -13.00 | -35.69 | H |
| N/A | | | | | | |
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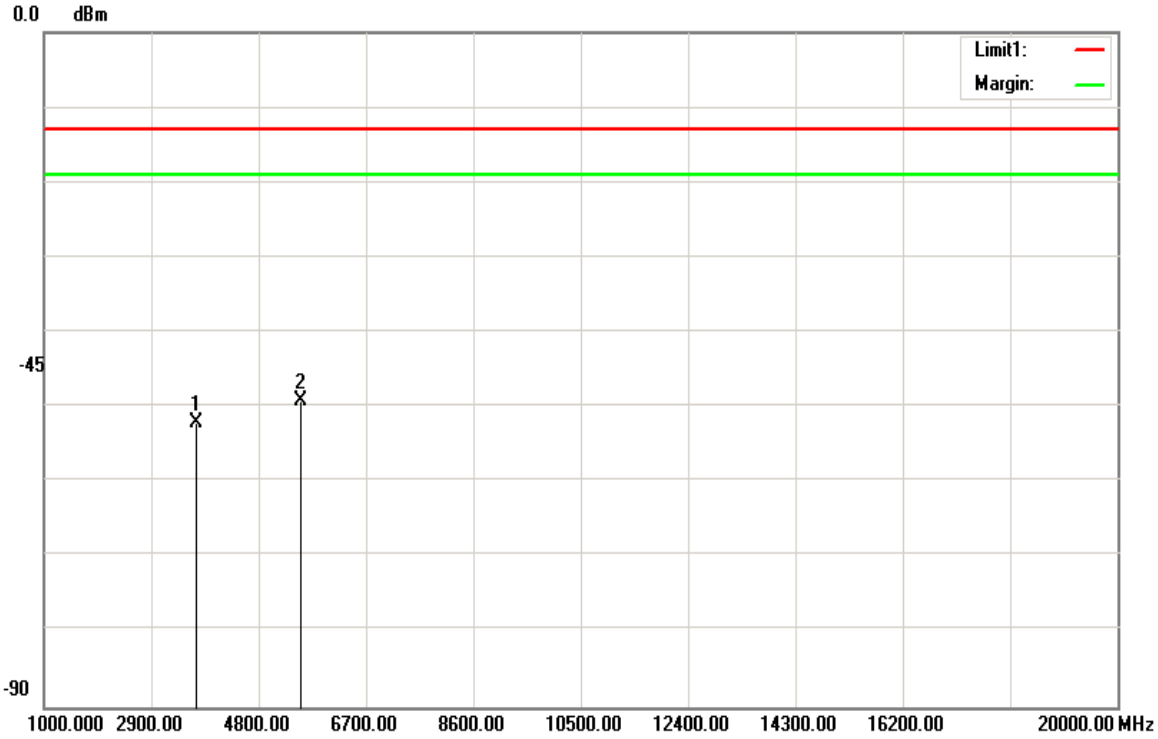
***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*

| | | | |
|---|---|---|---|
| **Operation Mode:** | Tx / Mid CH | **Test Date:** | Aug 18, 2017 |
| **Temperature:** | 21°C | **Tested by:** | Kevin Kuo |
| **Humidity:** | 52% RH | **Polarity:** | Ver. |




| Frequency (MHz) | S.G. (dBm) | Ant.Gain (dBi) | Emission level (dBm) | Limit (dBm) | Margin (dB) | Antenna Polarization (V/H) |
|---|---|---|---|---|---|---|
| 3740.000 | -64.68 | 12.54 | -52.14 | -13.00 | -39.14 | V |
| 5610.000 | -62.12 | 12.88 | -49.24 | -13.00 | -36.24 | V |
| N/A | | | | | | |
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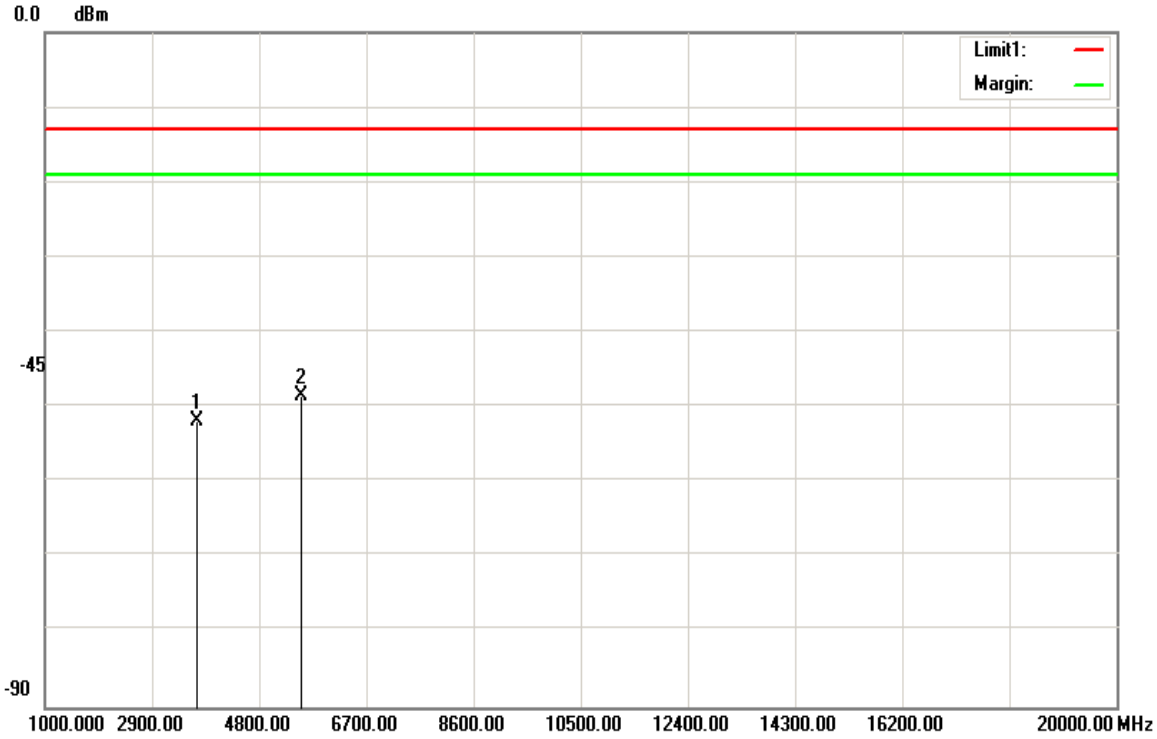
***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*

| | | | |
|---|---|---|---|
| **Operation Mode:** | Tx / Mid CH | **Test Date:** | Aug 18, 2017 |
| **Temperature:** | 21°C | **Tested by:** | Kevin Kuo |
| **Humidity:** | 52% RH | **Polarity:** | Hor. |




| Frequency (MHz) | S.G. (dBm) | Ant.Gain (dBi) | Emission level (dBm) | Limit (dBm) | Margin (dB) | Antenna Polarization (V/H) |
|---|---|---|---|---|---|---|
| 3740.000 | -64.34 | 12.54 | -51.80 | -13.00 | -38.80 | H |
| 5610.000 | -61.28 | 12.88 | -48.40 | -13.00 | -35.40 | H |
| N/A | | | | | | |
| | | | | | | |
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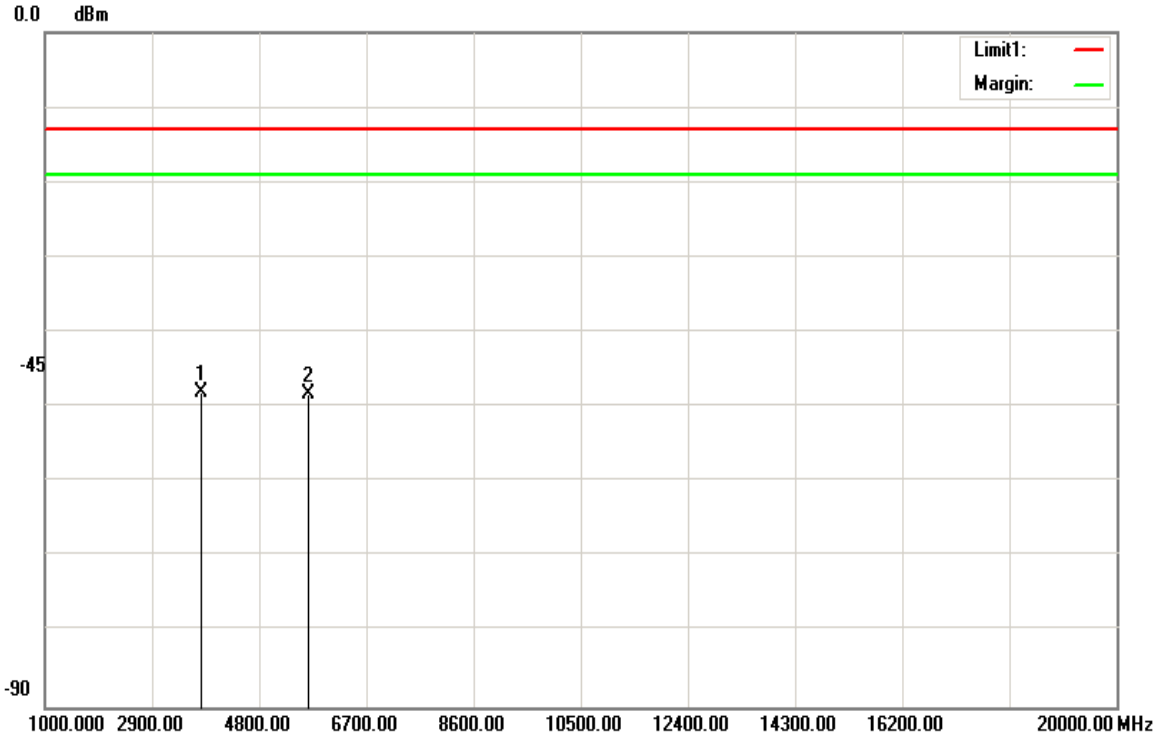
***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*

| | | | |
|---|---|---|---|
| **Operation Mode:** | Tx / High CH | **Test Date:** | Aug 18, 2017 |
| **Temperature:** | 21°C | **Tested by:** | Kevin Kuo |
| **Humidity:** | 52% RH | **Polarity:** | Ver. |




| Frequency (MHz) | S.G. (dBm) | Ant.Gain (dBi) | Emission level (dBm) | Limit (dBm) | Margin (dB) | Antenna Polarization (V/H) |
|---|---|---|---|---|---|---|
| 3779.000 | -60.54 | 12.56 | -47.98 | -13.00 | -34.98 | V |
| 5676.000 | -61.14 | 12.83 | -48.31 | -13.00 | -35.31 | V |
| N/A | | | | | | |
| | | | | | | |
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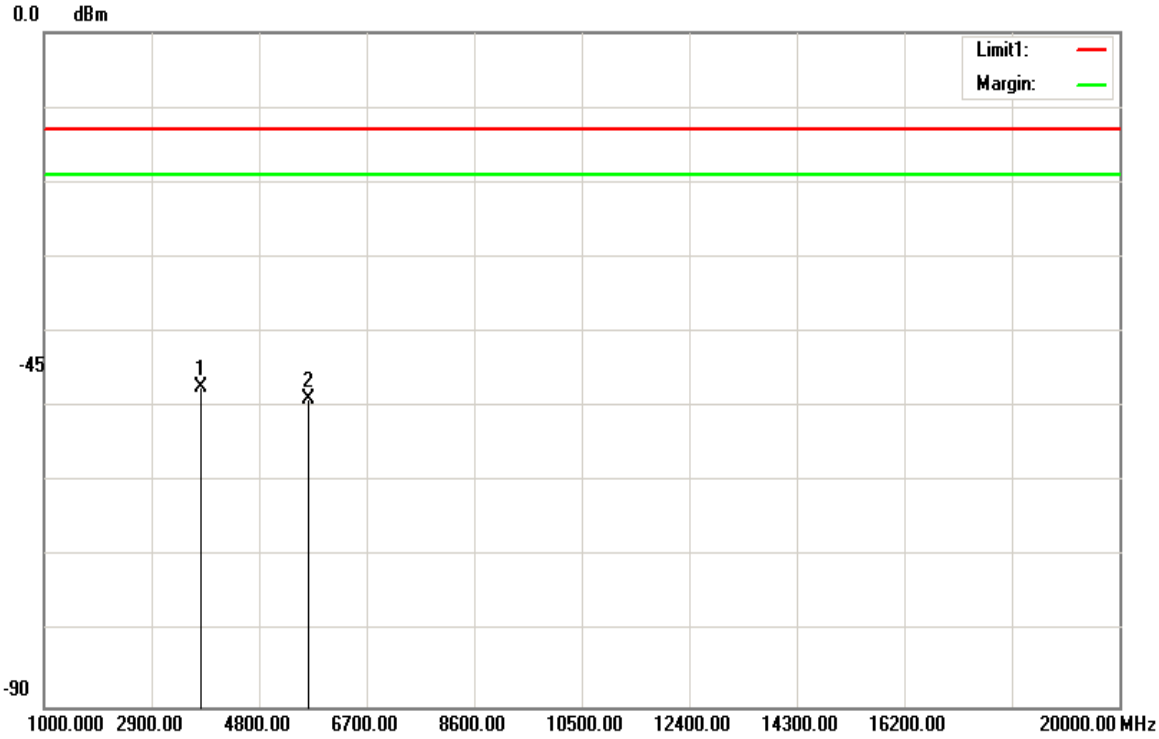
| | | | | | | |

***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*

| | | | |
|---|---|---|---|
| **Operation Mode:** | Tx / High CH | **Test Date:** | Aug 18, 2017 |
| **Temperature:** | 21°C | **Tested by:** | Kevin Kuo |
| **Humidity:** | 52% RH | **Polarity:** | Hor. |




| Frequency (MHz) | S.G. (dBm) | Ant.Gain (dBi) | Emission level (dBm) | Limit (dBm) | Margin (dB) | Antenna Polarization (V/H) |
|---|---|---|---|---|---|---|
| 3779.000 | -59.92 | 12.56 | -47.36 | -13.00 | -34.36 | H |
| 5676.000 | -61.81 | 12.83 | -48.98 | -13.00 | -35.98 | H |
| N/A | | | | | | |
| | | | | | | |
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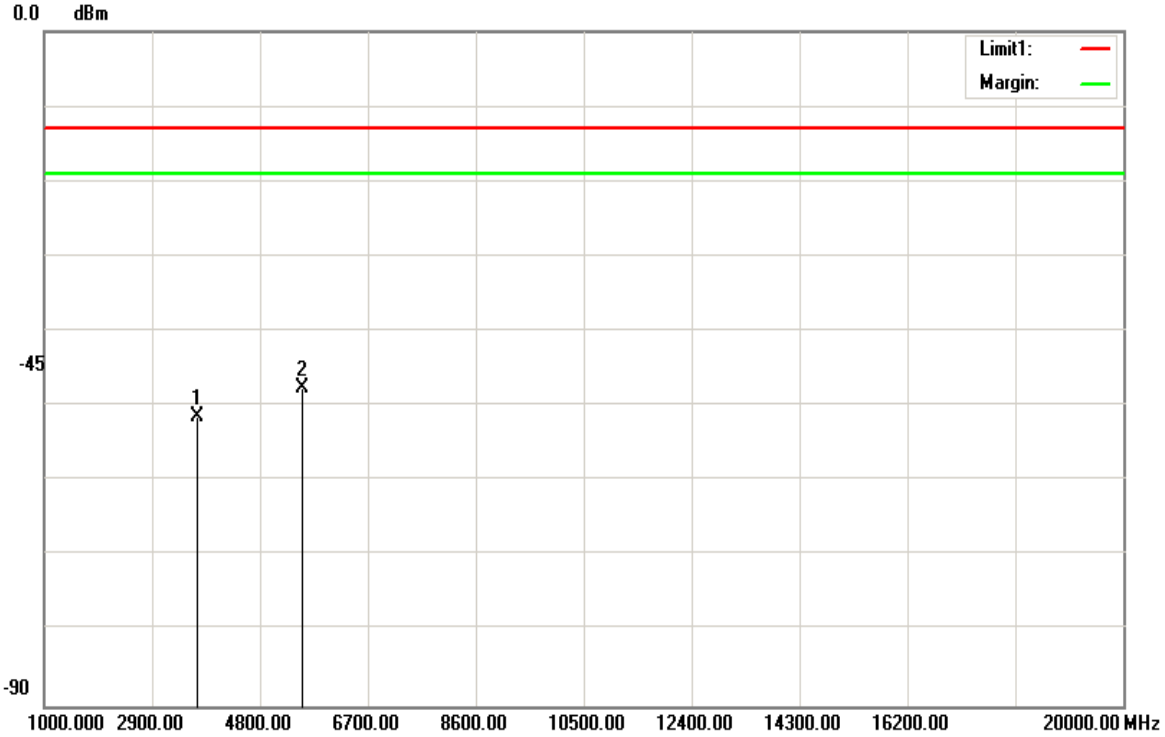
| | | | | | | |

***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*

**LTE Band 2 / BW: 20MHz / 16QAM / RB =1, RB Offset = 0**

| | | | |
|---|---|---|---|
| **Operation Mode:** | Tx / Low CH | **Test Date:** | Aug 18, 2017 |
| **Temperature:** | 21°C | **Tested by:** | Kevin Kuo |
| **Humidity:** | 52% RH | **Polarity:** | Ver. |




| Frequency (MHz) | S.G. (dBm) | Ant.Gain (dBi) | Emission level (dBm) | Limit (dBm) | Margin (dB) | Antenna Polarization (V/H) |
|---|---|---|---|---|---|---|
| 3702.000 | -63.93 | 12.54 | -51.39 | -13.00 | -38.39 | V |
| 5550.000 | -60.51 | 12.88 | -47.63 | -13.00 | -34.63 | V |
| N/A | | | | | | |
| | | | | | | |
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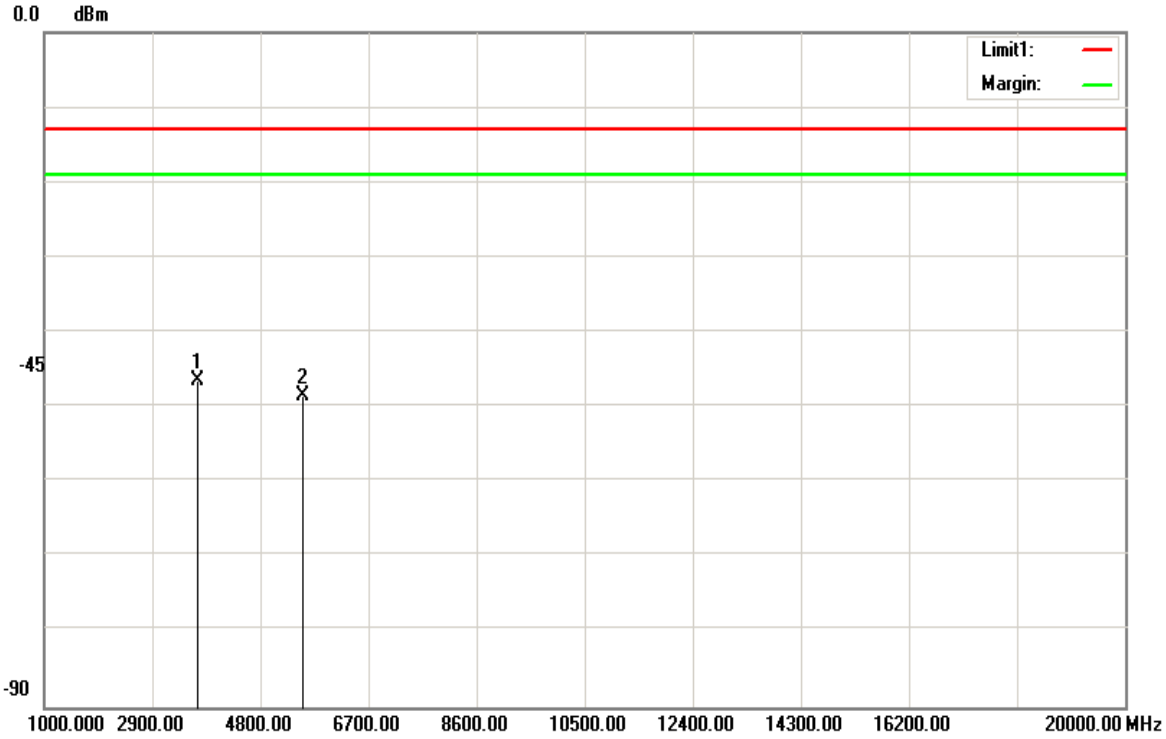
| | | | | | | |

***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*

| | | | |
|---|---|---|---|
| **Operation Mode:** | Tx / Low CH | **Test Date:** | Aug 18, 2017 |
| **Temperature:** | 21°C | **Tested by:** | Kevin Kuo |
| **Humidity:** | 52% RH | **Polarity:** | Hor. |

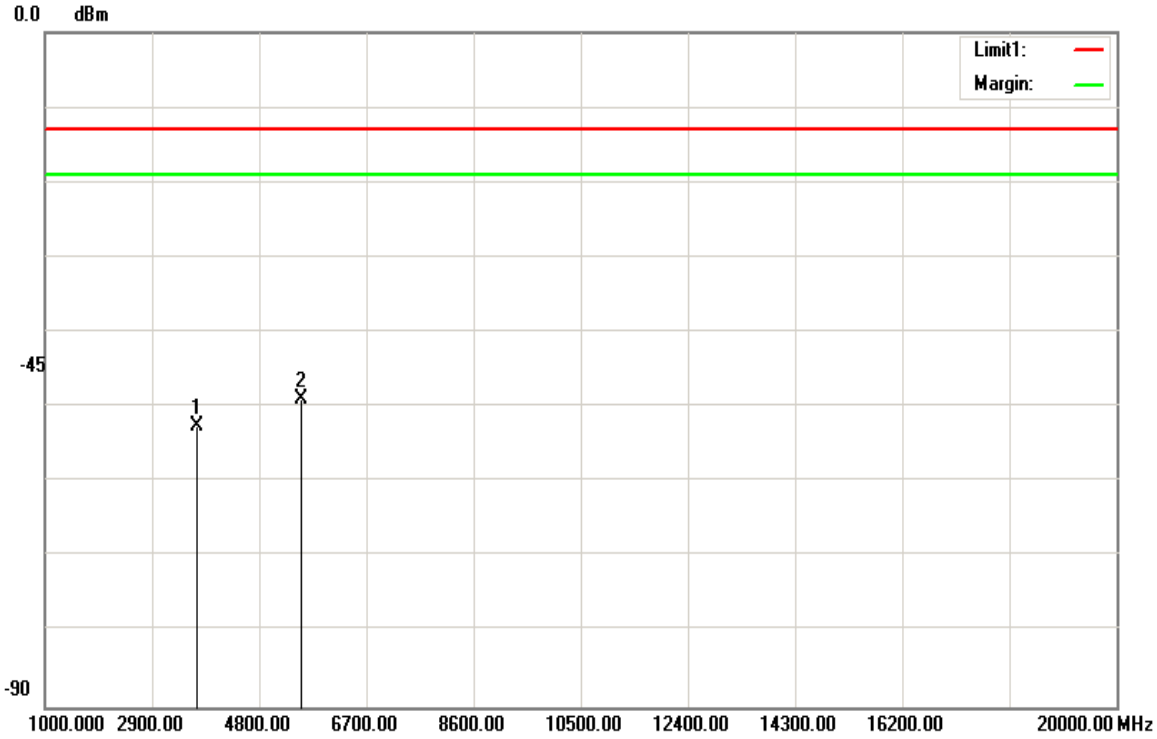



| Frequency (MHz) | S.G. (dBm) | Ant.Gain (dBi) | Emission level (dBm) | Limit (dBm) | Margin (dB) | Antenna Polarization (V/H) |
|---|---|---|---|---|---|---|
| 3702.000 | -59.06 | 12.54 | -46.52 | -13.00 | -33.52 | H |
| 5550.000 | -61.27 | 12.88 | -48.39 | -13.00 | -35.39 | H |
| N/A | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*

| | | | |
|---|---|---|---|
| **Operation Mode:** | Tx / Mid CH | **Test Date:** | Aug 18, 2017 |
| **Temperature:** | 21°C | **Tested by:** | Kevin Kuo |
| **Humidity:** | 52% RH | **Polarity:** | Ver. |

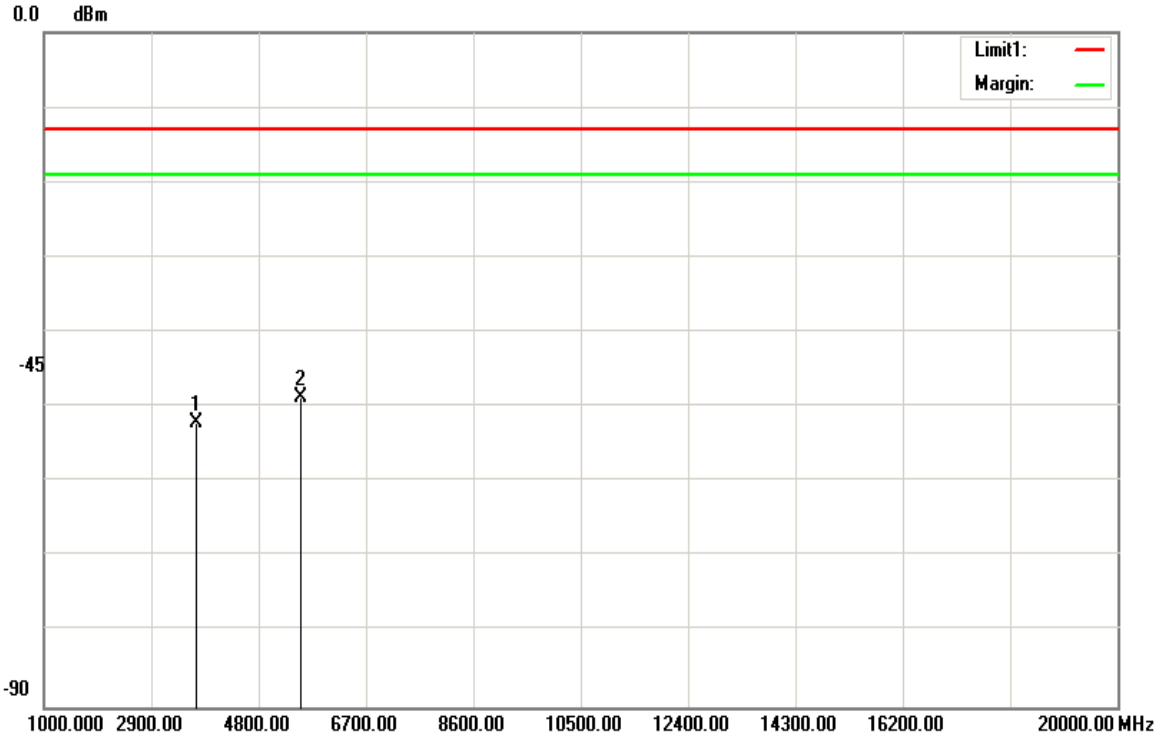



| Frequency (MHz) | S.G. (dBm) | Ant.Gain (dBi) | Emission level (dBm) | Limit (dBm) | Margin (dB) | Antenna Polarization (V/H) |
|---|---|---|---|---|---|---|
| 3740.000 | -65 | 12.54 | -52.46 | -13.00 | -39.46 | V |
| 5610.000 | -61.71 | 12.88 | -48.83 | -13.00 | -35.83 | V |
| N/A | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*

| | | | |
|---|---|---|---|
| **Operation Mode:** | Tx / Mid CH | **Test Date:** | Aug 18, 2017 |
| **Temperature:** | 21°C | **Tested by:** | Kevin Kuo |
| **Humidity:** | 52% RH | **Polarity:** | Hor. |




| Frequency (MHz) | S.G. (dBm) | Ant.Gain (dBi) | Emission level (dBm) | Limit (dBm) | Margin (dB) | Antenna Polarization (V/H) |
|---|---|---|---|---|---|---|
| 3740.000 | -64.53 | 12.54 | -51.99 | -13.00 | -38.99 | H |
| 5610.000 | -61.57 | 12.88 | -48.69 | -13.00 | -35.69 | H |
| N/A | | | | | | |
| | | | | | | |
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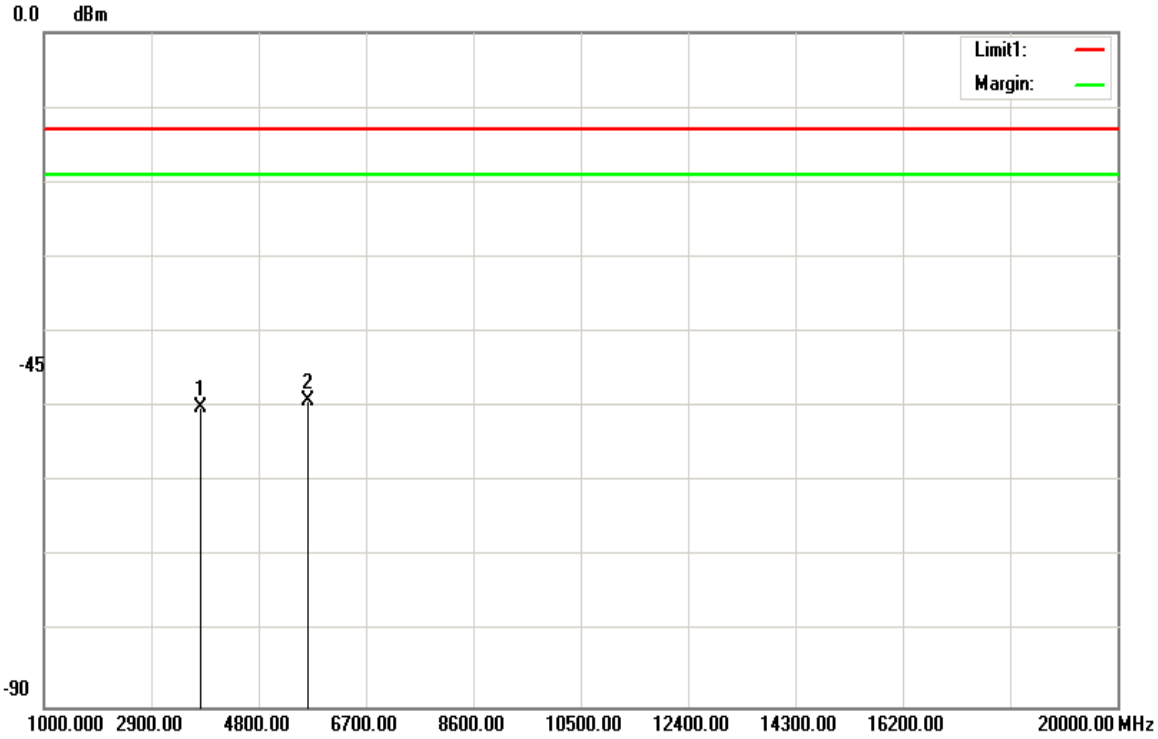
***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*

| | | | |
|---|---|---|---|
| **Operation Mode:** | Tx / High CH | **Test Date:** | Aug 18, 2017 |
| **Temperature:** | 21°C | **Tested by:** | Kevin Kuo |
| **Humidity:** | 52% RH | **Polarity:** | Ver. |




| Frequency (MHz) | S.G. (dBm) | Ant.Gain (dBi) | Emission level (dBm) | Limit (dBm) | Margin (dB) | Antenna Polarization (V/H) |
|---|---|---|---|---|---|---|
| 3779.000 | -62.54 | 12.56 | -49.98 | -13.00 | -36.98 | V |
| 5676.000 | -61.92 | 12.83 | -49.09 | -13.00 | -36.09 | V |
| N/A | | | | | | |
| | | | | | | |
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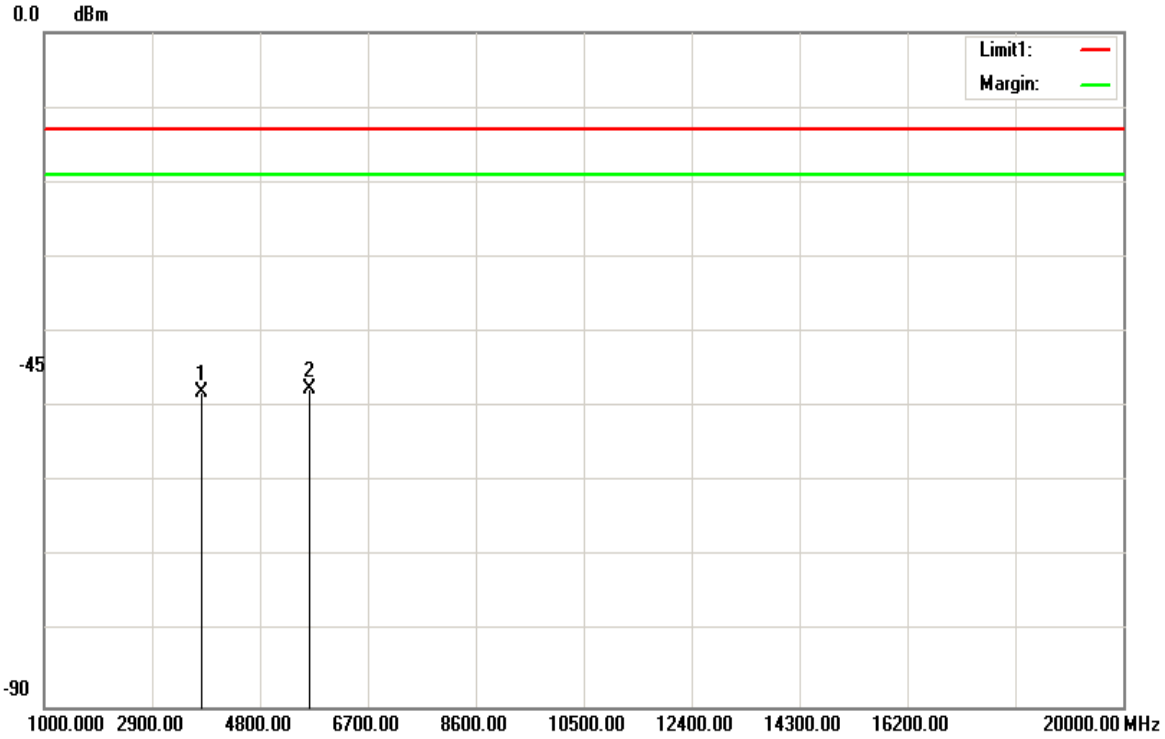
| | | | | | | |

***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*

| | | | |
|---|---|---|---|
| **Operation Mode:** | Tx / High CH | **Test Date:** | Aug 18, 2017 |
| **Temperature:** | 21°C | **Tested by:** | Kevin Kuo |
| **Humidity:** | 52% RH | **Polarity:** | Hor. |




| Frequency (MHz) | S.G. (dBm) | Ant.Gain (dBi) | Emission level (dBm) | Limit (dBm) | Margin (dB) | Antenna Polarization (V/H) |
|---|---|---|---|---|---|---|
| 3779.000 | -60.61 | 12.56 | -48.05 | -13.00 | -35.05 | H |
| 5676.000 | -60.31 | 12.83 | -47.48 | -13.00 | -34.48 | H |
| N/A | | | | | | |
| | | | | | | |
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***Remark:***

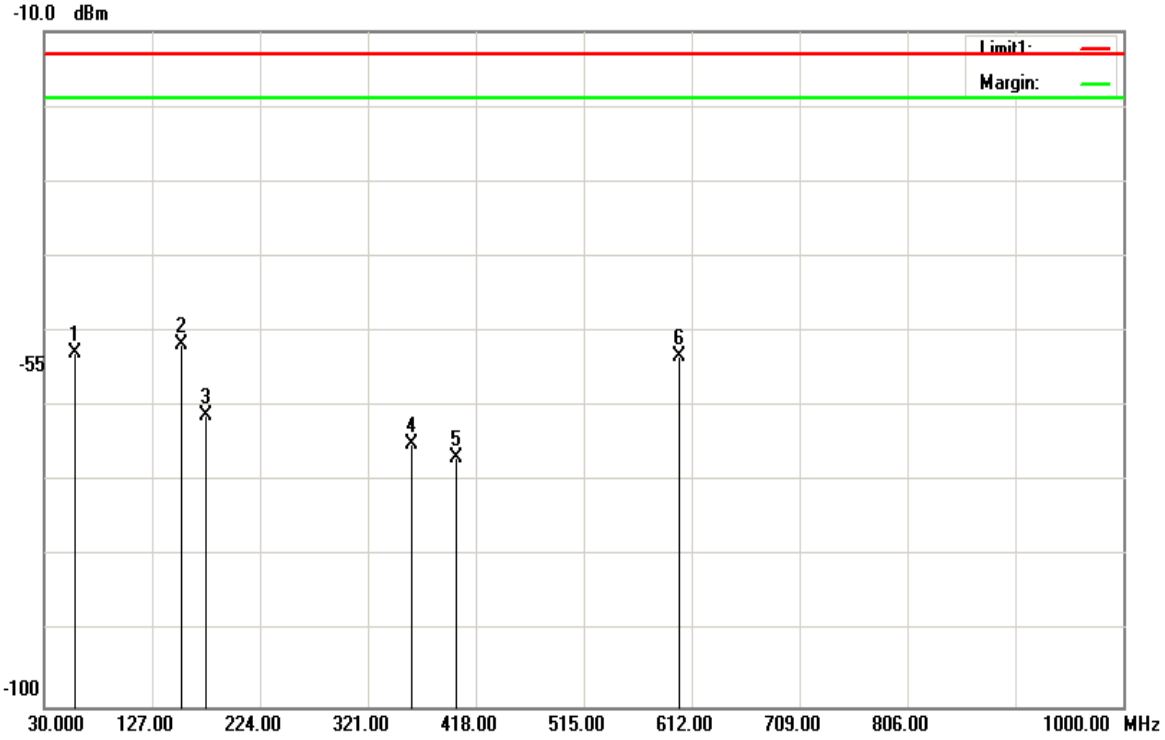
1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*

## Test Results

## Below 1GHz

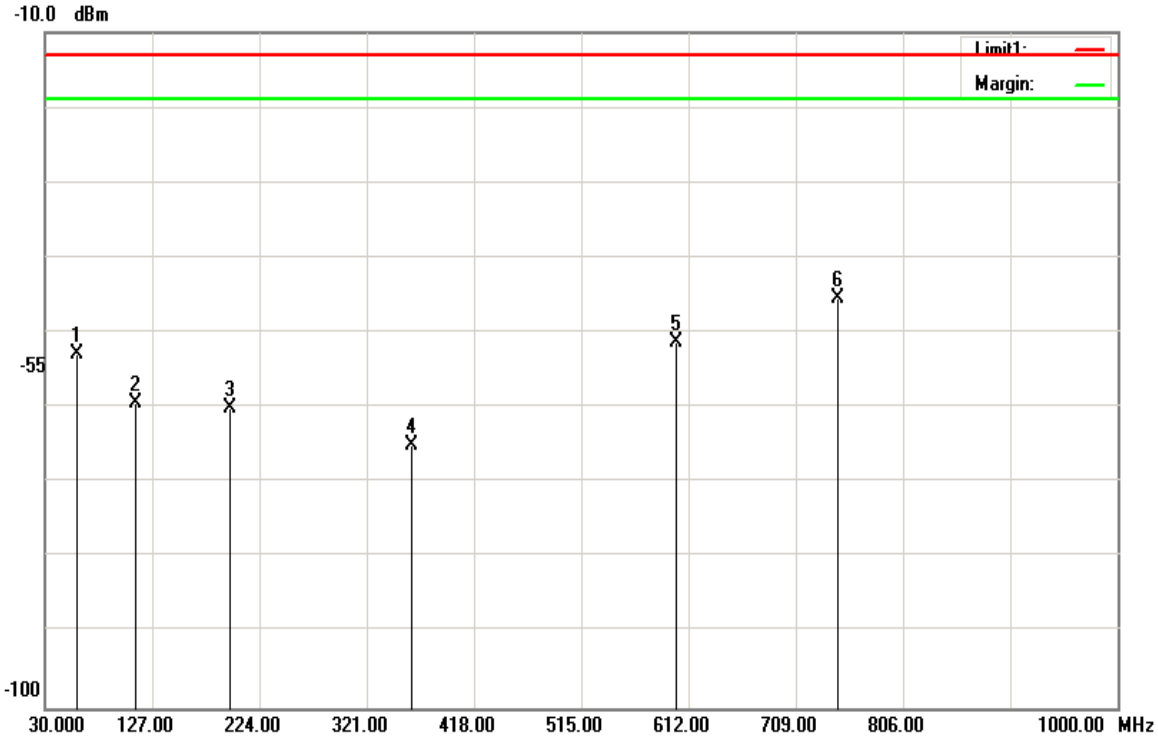
**LTE Band 5 / BW: 10MHz / QPSK / RB =1, RB Offset = 0**

| | | | |
|---|---|---|---|
| **Operation Mode:** | Tx / Mid CH | **Test Date:** | Aug 16, 2017 |
| **Temperature:** | 21°C | **Tested by:** | Kevin Kuo |
| **Humidity:** | 52% RH | **Polarity:** | Ver. |




| Frequency (MHz) | S.G. (dBm) | Ant.Gain (dBi) | Emission level (dBm) | Limit (dBm) | Margin (dB) | Antenna Polarization (V/H) |
|---|---|---|---|---|---|---|
| 58.1300 | -51.28 | -1.49 | -52.77 | -13.00 | -39.77 | V |
| 153.1900 | -51.84 | 0.01 | -51.83 | -13.00 | -38.83 | V |
| 175.5000 | -64.13 | 3.04 | -61.09 | -13.00 | -48.09 | V |
| 360.7700 | -72.22 | 7.14 | -65.08 | -13.00 | -52.08 | V |
| 400.5400 | -74.03 | 7.3 | -66.73 | -13.00 | -53.73 | V |
| 600.3600 | -51.75 | -1.56 | -53.31 | -13.00 | -40.31 | V |

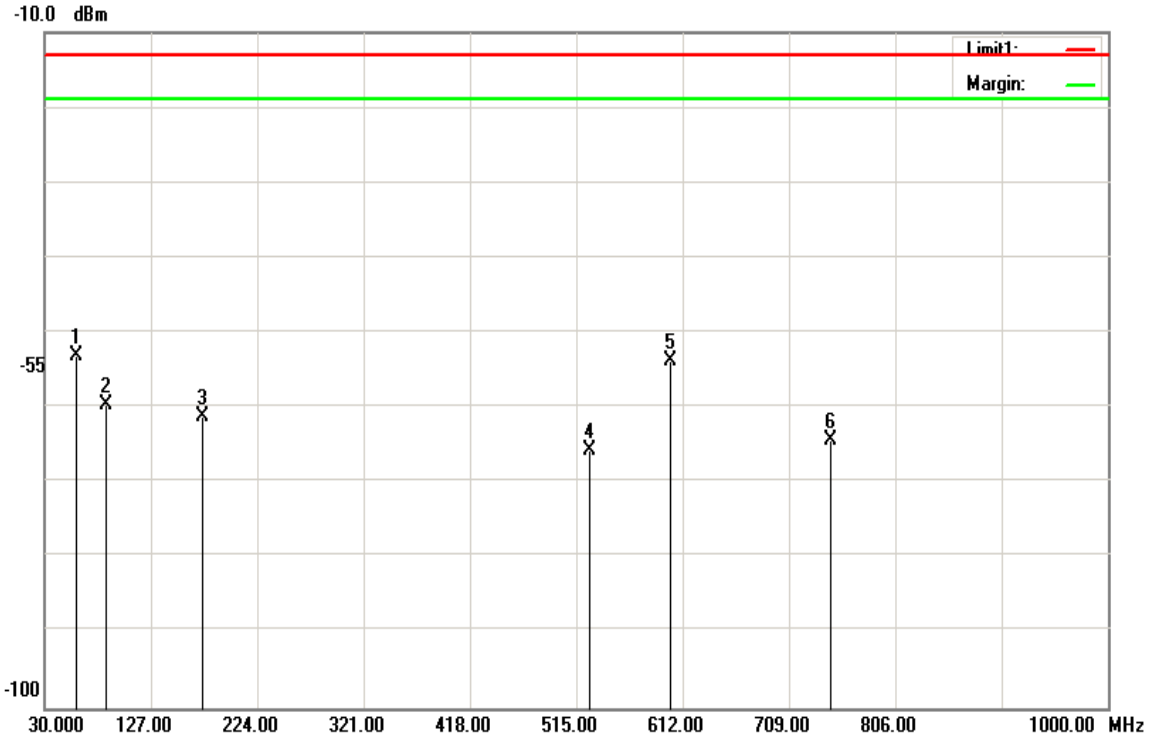
| | | | |
|---|---|---|---|
| **Operation Mode:** | Tx / Mid CH | **Test Date:** | Aug 16, 2017 |
| **Temperature:** | 21°C | **Tested by:** | Kevin Kuo |
| **Humidity:** | 52% RH | **Polarity:** | Hor. |




| Frequency (MHz) | S.G. (dBm) | Ant.Gain (dBi) | Emission level (dBm) | Limit (dBm) | Margin (dB) | Antenna Polarization (V/H) |
|---|---|---|---|---|---|---|
| 59.1000 | -51.42 | -1.39 | -52.81 | -13.00 | -39.81 | H |
| 111.4800 | -59.91 | 0.56 | -59.35 | -13.00 | -46.35 | H |
| 196.8400 | -64.26 | 4.1 | -60.16 | -13.00 | -47.16 | H |
| 361.7400 | -72.27 | 7.15 | -65.12 | -13.00 | -52.12 | H |
| 600.3600 | -49.72 | -1.56 | -51.28 | -13.00 | -38.28 | H |
| 746.8300 | -47.08 | 1.69 | -45.39 | -13.00 | -32.39 | H |

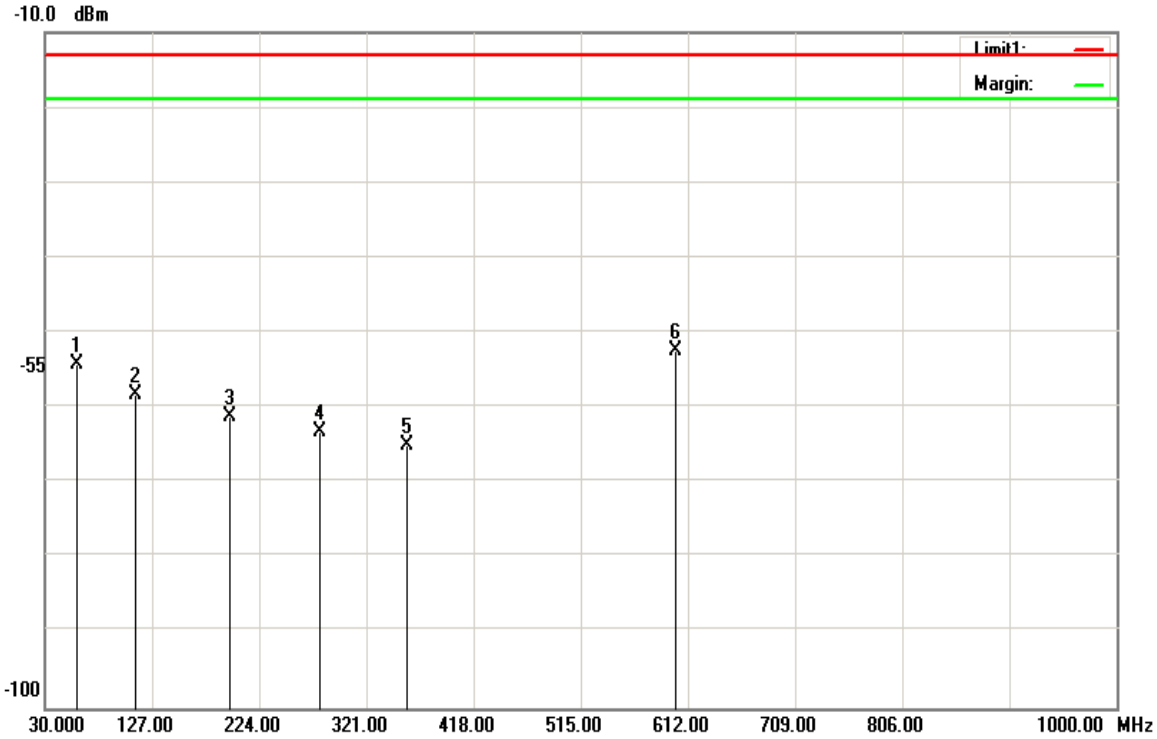
**LTE Band 5 / BW: 10MHz / 16QAM / RB =1, RB Offset = 0**

| | | | |
|---|---|---|---|
| **Operation Mode:** | Tx / Mid CH | **Test Date:** | Aug 16, 2017 |
| **Temperature:** | 21°C | **Tested by:** | Kevin Kuo |
| **Humidity:** | 52% RH | **Polarity:** | Ver. |




| Frequency (MHz) | S.G. (dBm) | Ant.Gain (dBi) | Emission level (dBm) | Limit (dBm) | Margin (dB) | Antenna Polarization (V/H) |
|---|---|---|---|---|---|---|
| 59.1000 | -51.62 | -1.39 | -53.01 | -13.00 | -40.01 | V |
| 86.2600 | -60.01 | 0.37 | -59.64 | -13.00 | -46.64 | V |
| 174.5300 | -64.06 | 2.81 | -61.25 | -13.00 | -48.25 | V |
| 527.6100 | -72.59 | 6.83 | -65.76 | -13.00 | -52.76 | V |
| 600.3600 | -52.18 | -1.56 | -53.74 | -13.00 | -40.74 | V |
| 746.8300 | -66.04 | 1.69 | -64.35 | -13.00 | -51.35 | V |

| | | | |
|---|---|---|---|
| **Operation Mode:** | Tx / Mid CH l | **Test Date:** | Aug 16, 2017 |
| **Temperature:** | 21°C | **Tested by:** | Kevin Kuo |
| **Humidity:** | 52% RH | **Polarity:** | Hor. |

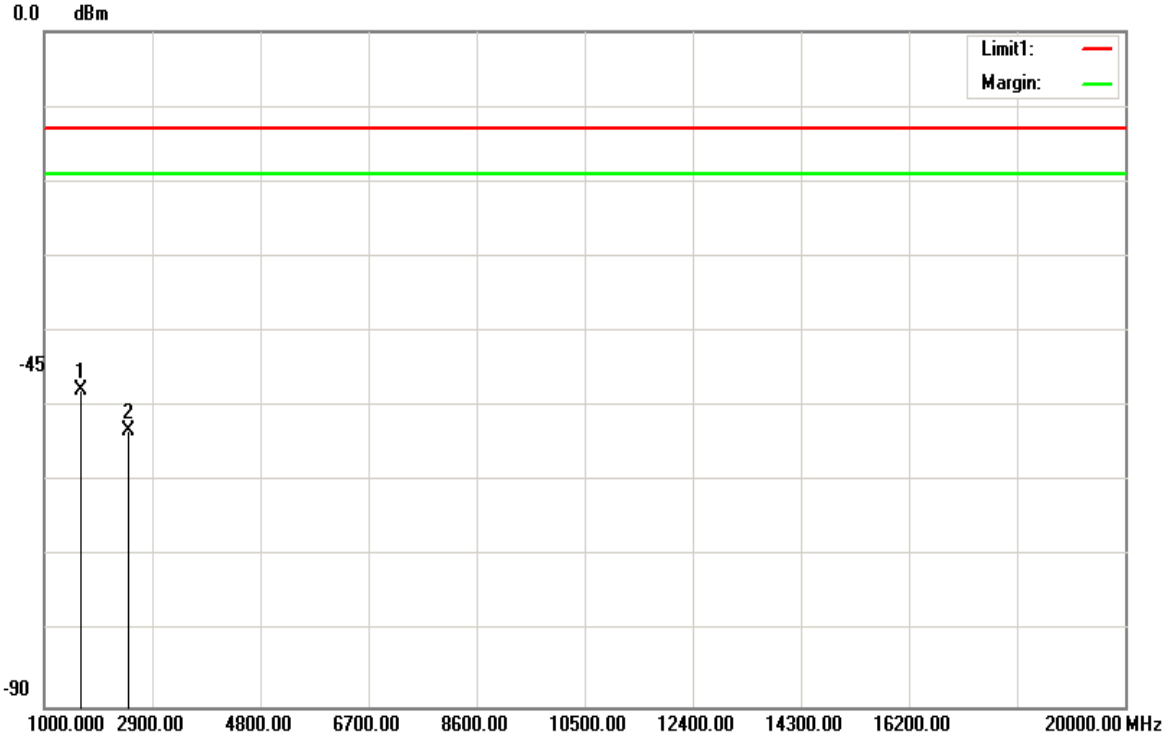



| Frequency (MHz) | S.G. (dBm) | Ant.Gain (dBi) | Emission level (dBm) | Limit (dBm) | Margin (dB) | Antenna Polarization (V/H) |
|---|---|---|---|---|---|---|
| 59.1000 | -52.74 | -1.39 | -54.13 | -13.00 | -41.13 | H |
| 111.4800 | -58.79 | 0.56 | -58.23 | -13.00 | -45.23 | H |
| 196.8400 | -65.35 | 4.1 | -61.25 | -13.00 | -48.25 | H |
| 279.2900 | -70.23 | 7.11 | -63.12 | -13.00 | -50.12 | H |
| 357.8600 | -72.22 | 7.13 | -65.09 | -13.00 | -52.09 | H |
| 600.3600 | -50.82 | -1.56 | -52.38 | -13.00 | -39.38 | H |

## Above 1GHz

**LTE Band 5 / BW: 10 MHz / QPSK / RB =1, RB Offset = 0**

| | | | |
|---|---|---|---|
| **Operation Mode:** | **Tx / Low CH** | **Test Date:** | Aug 18, 2017 |
| **Temperature:** | **21°C** | **Tested by:** | Kevin Kuo |
| **Humidity:** | **52% RH** | **Polarity:** | **Ver.** |




| Frequency (MHz) | S.G. (dBm) | Ant.Gain (dBi) | Emission level (dBm) | Limit (dBm) | Margin (dB) | Antenna Polarization (V/H) |
|---|---|---|---|---|---|---|
| 1651.000 | -49.26 | 1.52 | -47.74 | -13.00 | -34.74 | V |
| 2473.000 | -55.04 | 1.83 | -53.21 | -13.00 | -40.21 | V |
| N/A | | | | | | |
| | | | | | | |
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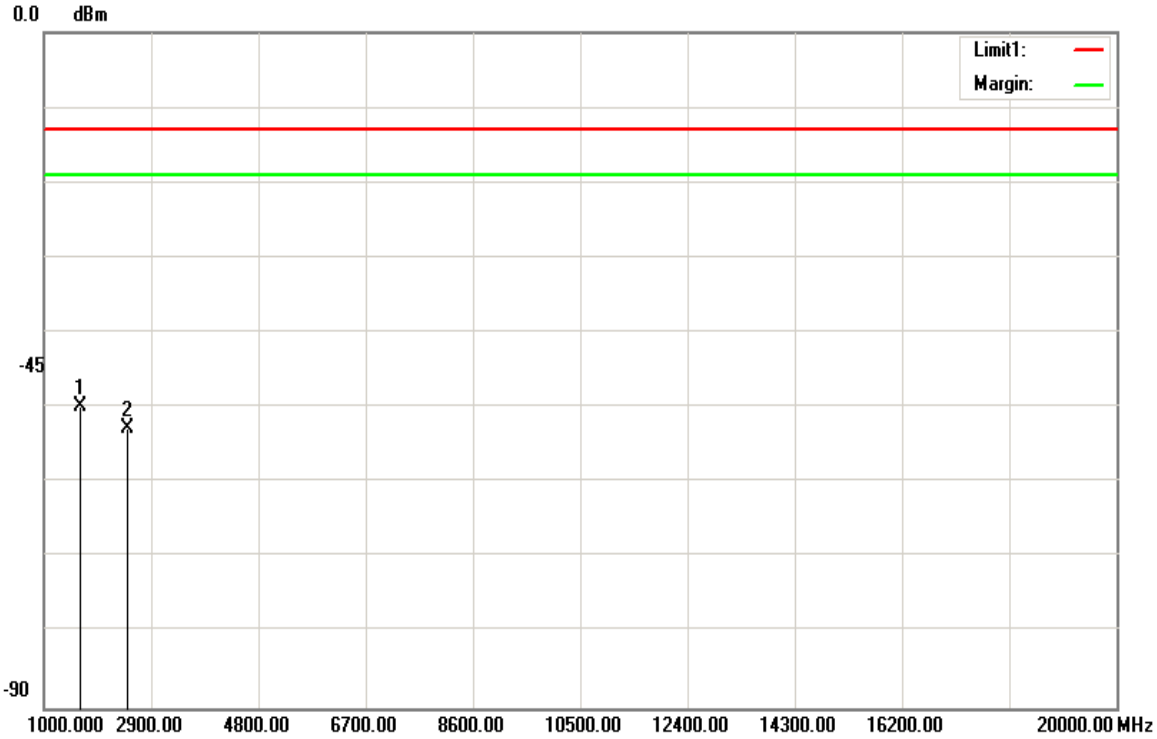
***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*

| | | | |
|---|---|---|---|
| **Operation Mode:** | Tx / Low CH | **Test Date:** | Aug 18, 2017 |
| **Temperature:** | 21°C | **Tested by:** | Kevin Kuo |
| **Humidity:** | 52% RH | **Polarity:** | Hor. |




| Frequency (MHz) | S.G. (dBm) | Ant.Gain (dBi) | Emission level (dBm) | Limit (dBm) | Margin (dB) | Antenna Polarization (V/H) |
|---|---|---|---|---|---|---|
| 1649.000 | -51.27 | 1.52 | -49.75 | -13.00 | -36.75 | H |
| 2473.000 | -54.66 | 1.83 | -52.83 | -13.00 | -39.83 | H |
| N/A | | | | | | |
| | | | | | | |
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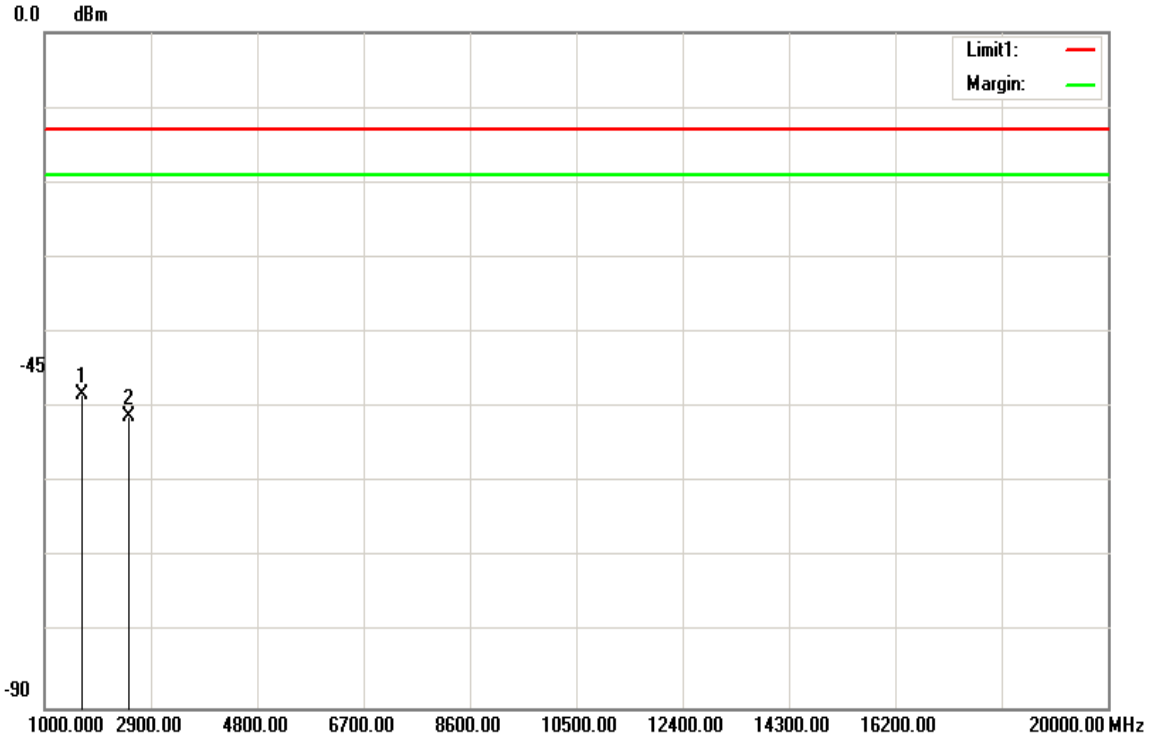
***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*

| | | | |
|---|---|---|---|
| **Operation Mode:** | Tx / Mid CH | **Test Date:** | Aug 18, 2017 |
| **Temperature:** | 21°C | **Tested by:** | Kevin Kuo |
| **Humidity:** | 52% RH | **Polarity:** | Ver. |




| Frequency (MHz) | S.G. (dBm) | Ant.Gain (dBi) | Emission level (dBm) | Limit (dBm) | Margin (dB) | Antenna Polarization (V/H) |
|---|---|---|---|---|---|---|
| 1664.000 | -49.86 | 1.52 | -48.34 | -13.00 | -35.34 | V |
| 2496.000 | -52.99 | 1.85 | -51.14 | -13.00 | -38.14 | V |
| N/A | | | | | | |
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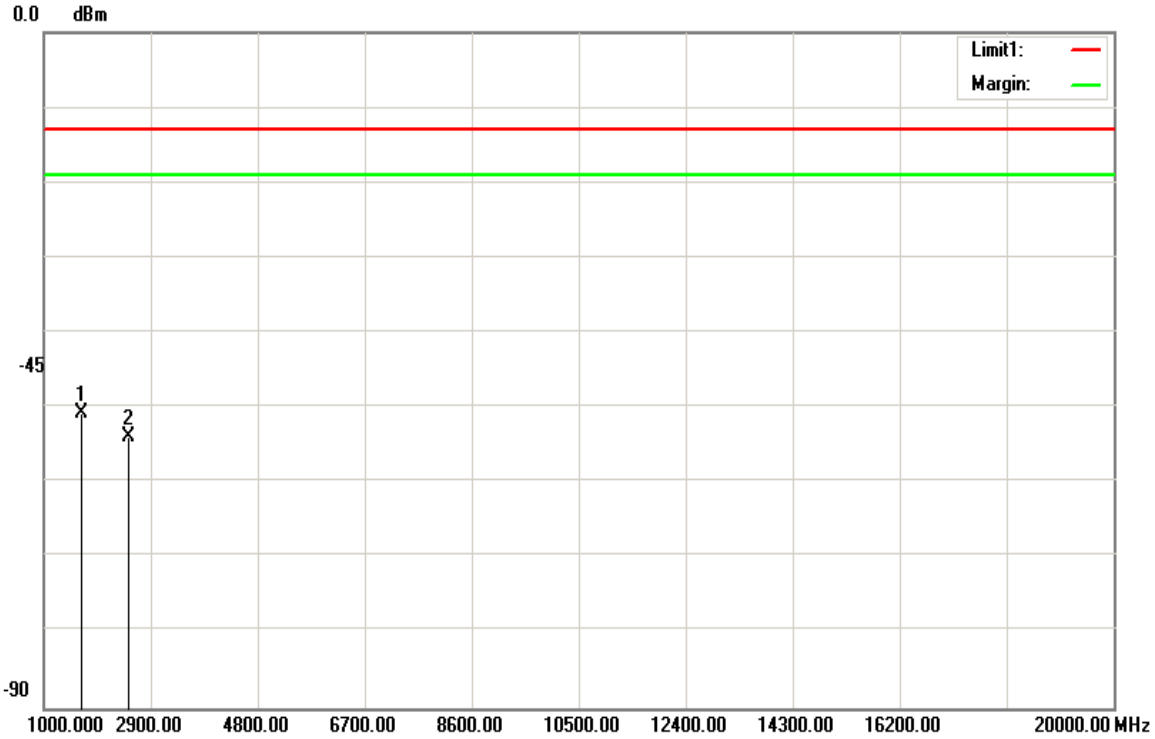
***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*

| | | | |
|---|---|---|---|
| **Operation Mode:** | Tx / Mid CH | **Test Date:** | Aug 18, 2017 |
| **Temperature:** | 21°C | **Tested by:** | Kevin Kuo |
| **Humidity:** | 52% RH | **Polarity:** | Hor. |




| Frequency (MHz) | S.G. (dBm) | Ant.Gain (dBi) | Emission level (dBm) | Limit (dBm) | Margin (dB) | Antenna Polarization (V/H) |
|---|---|---|---|---|---|---|
| 1664.000 | -52.2 | 1.52 | -50.68 | -13.00 | -37.68 | H |
| 2496.000 | -55.68 | 1.85 | -53.83 | -13.00 | -40.83 | H |
| N/A | | | | | | |
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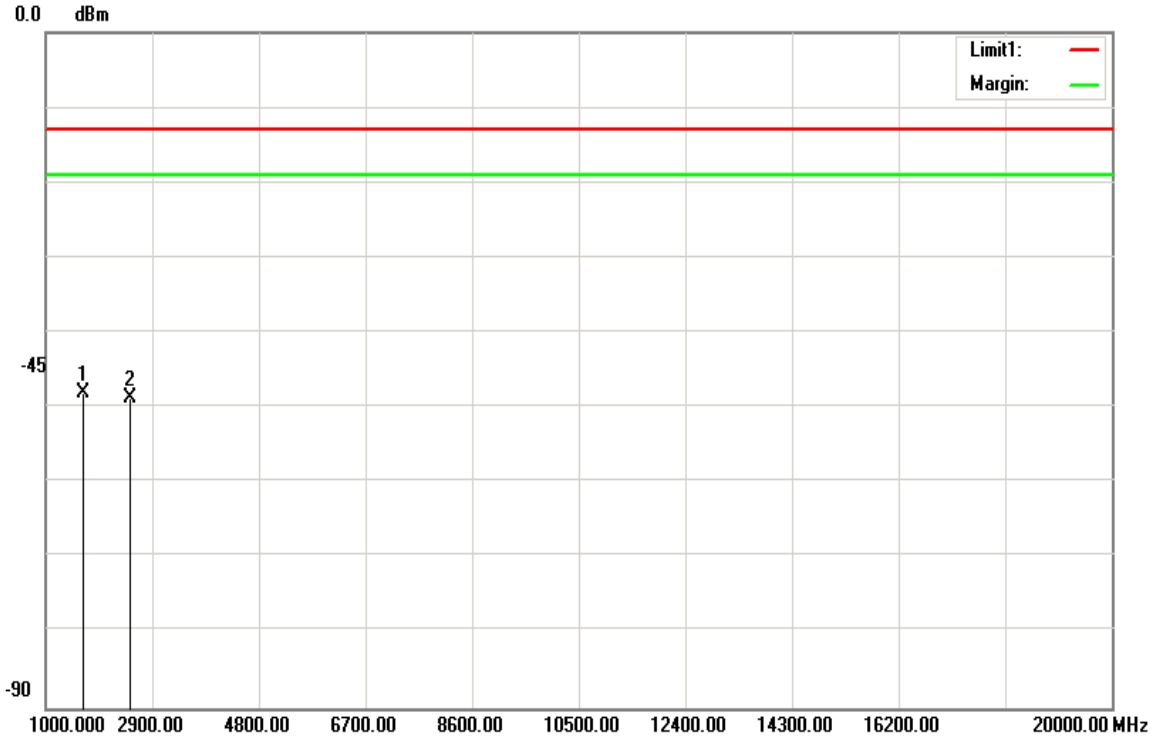
***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*

| | | | |
|---|---|---|---|
| **Operation Mode:** | Tx / High CH | **Test Date:** | Aug 18, 2017 |
| **Temperature:** | 21°C | **Tested by:** | Kevin Kuo |
| **Humidity:** | 52% RH | **Polarity:** | Ver. |




| Frequency (MHz) | S.G. (dBm) | Ant.Gain (dBi) | Emission level (dBm) | Limit (dBm) | Margin (dB) | Antenna Polarization (V/H) |
|---|---|---|---|---|---|---|
| 1679.000 | -49.64 | 1.52 | -48.12 | -13.00 | -35.12 | V |
| 2519.000 | -50.87 | 2.21 | -48.66 | -13.00 | -35.66 | V |
| N/A | | | | | | |
| | | | | | | |
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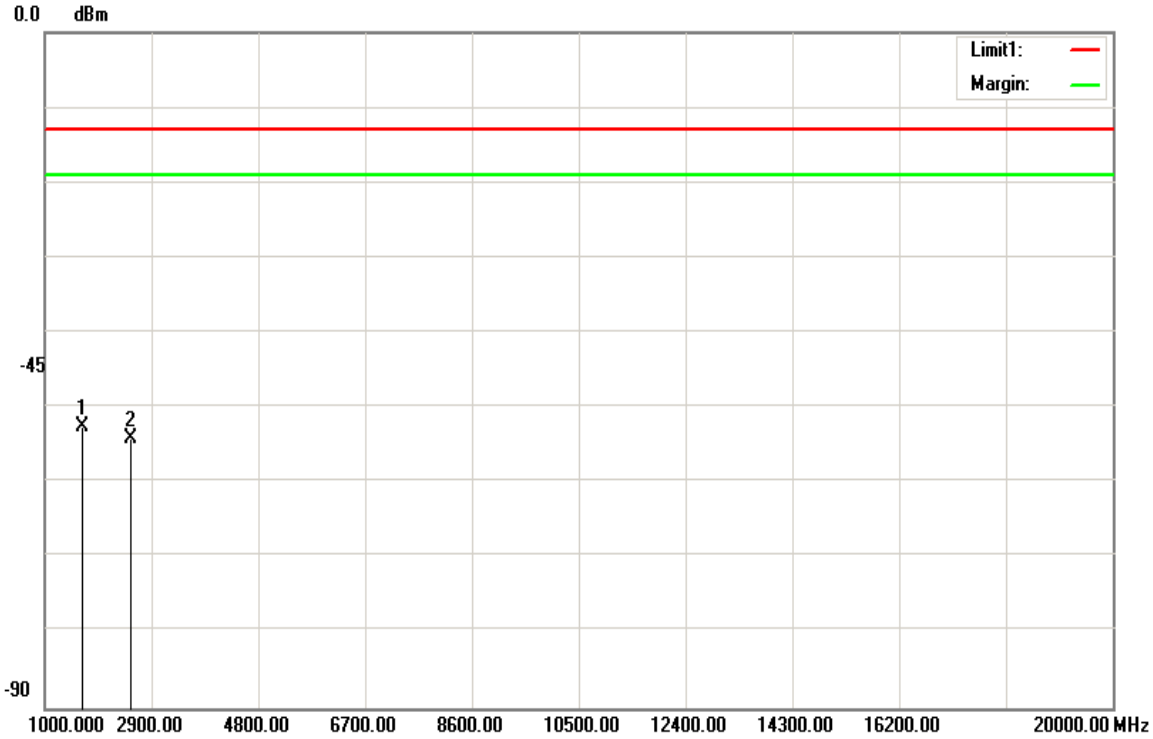
***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*

| | | | |
|---|---|---|---|
| **Operation Mode:** | Tx / High CH | **Test Date:** | Aug 18, 2017 |
| **Temperature:** | 21°C | **Tested by:** | Kevin Kuo |
| **Humidity:** | 52% RH | **Polarity:** | Hor. |




| Frequency (MHz) | S.G. (dBm) | Ant.Gain (dBi) | Emission level (dBm) | Limit (dBm) | Margin (dB) | Antenna Polarization (V/H) |
|---|---|---|---|---|---|---|
| 1680.000 | -54.11 | 1.52 | -52.59 | -13.00 | -39.59 | H |
| 2520.000 | -56.34 | 2.22 | -54.12 | -13.00 | -41.12 | H |
| N/A | | | | | | |
| | | | | | | |
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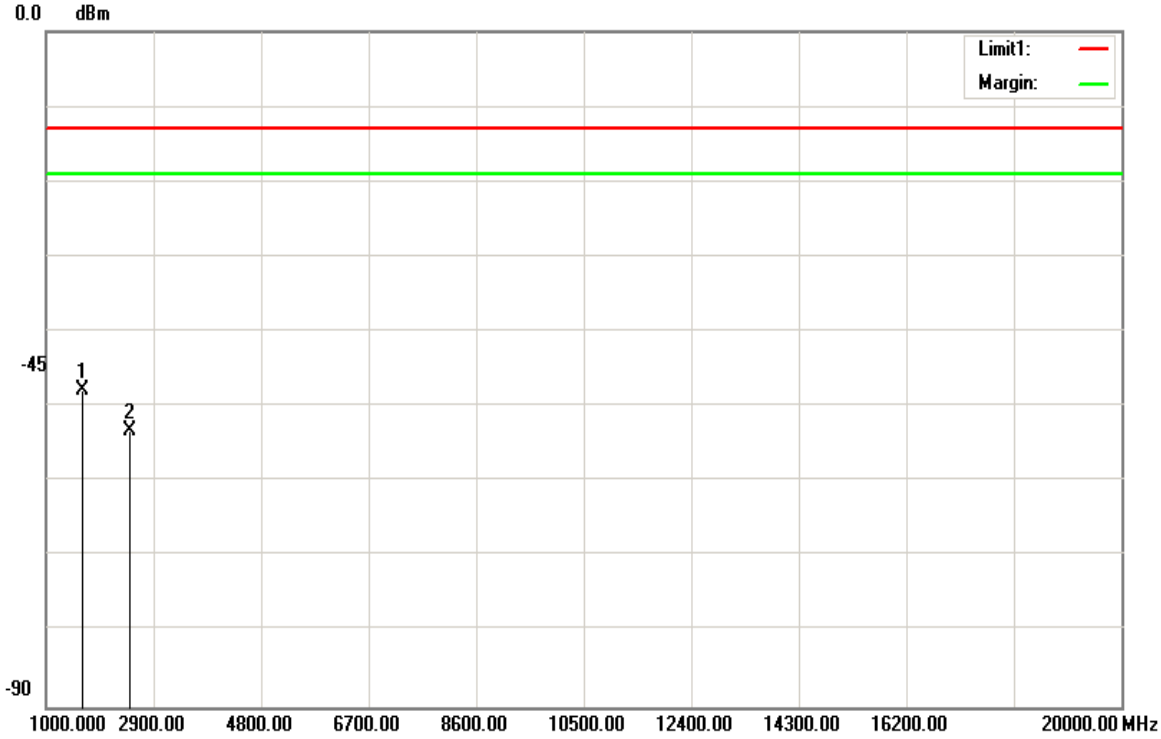
***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*

**LTE Band 5 / BW: 10MHz / 16QAM / RB =1, RB Offset = 0**

| | | | |
|---|---|---|---|
| **Operation Mode:** | Tx / Low CH | **Test Date:** | Aug 18, 2017 |
| **Temperature:** | 21°C | **Tested by:** | Kevin Kuo |
| **Humidity:** | 52% RH | **Polarity:** | Ver. |




| Frequency (MHz) | S.G. (dBm) | Ant.Gain (dBi) | Emission level (dBm) | Limit (dBm) | Margin (dB) | Antenna Polarization (V/H) |
|---|---|---|---|---|---|---|
| 1649.000 | -49.33 | 1.52 | -47.81 | -13.00 | -34.81 | V |
| 2473.000 | -54.99 | 1.83 | -53.16 | -13.00 | -40.16 | V |
| N/A | | | | | | |
| | | | | | | |
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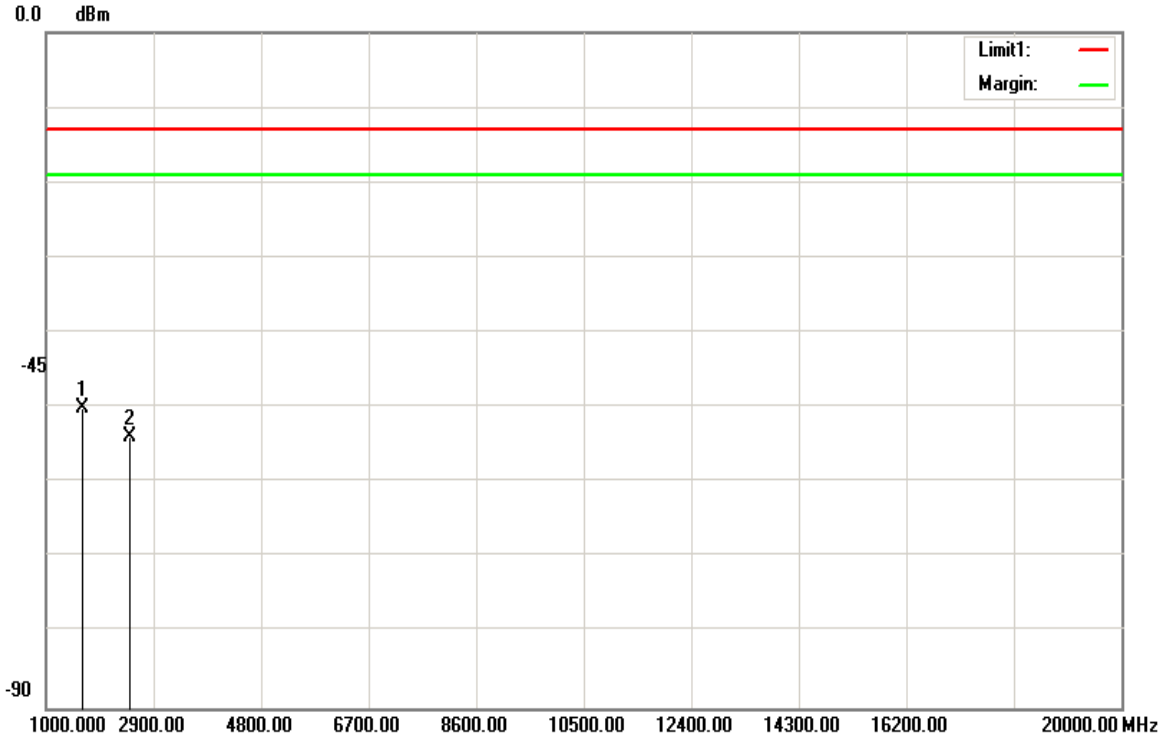
***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*

| | | | |
|---|---|---|---|
| **Operation Mode:** | Tx / Low CH | **Test Date:** | Aug 18, 2017 |
| **Temperature:** | 21°C | **Tested by:** | Kevin Kuo |
| **Humidity:** | 52% RH | **Polarity:** | Hor. |




| Frequency (MHz) | S.G. (dBm) | Ant.Gain (dBi) | Emission level (dBm) | Limit (dBm) | Margin (dB) | Antenna Polarization (V/H) |
|---|---|---|---|---|---|---|
| 1651.000 | -51.59 | 1.52 | -50.07 | -13.00 | -37.07 | H |
| 2473.000 | -55.76 | 1.83 | -53.93 | -13.00 | -40.93 | H |
| N/A | | | | | | |
| | | | | | | |
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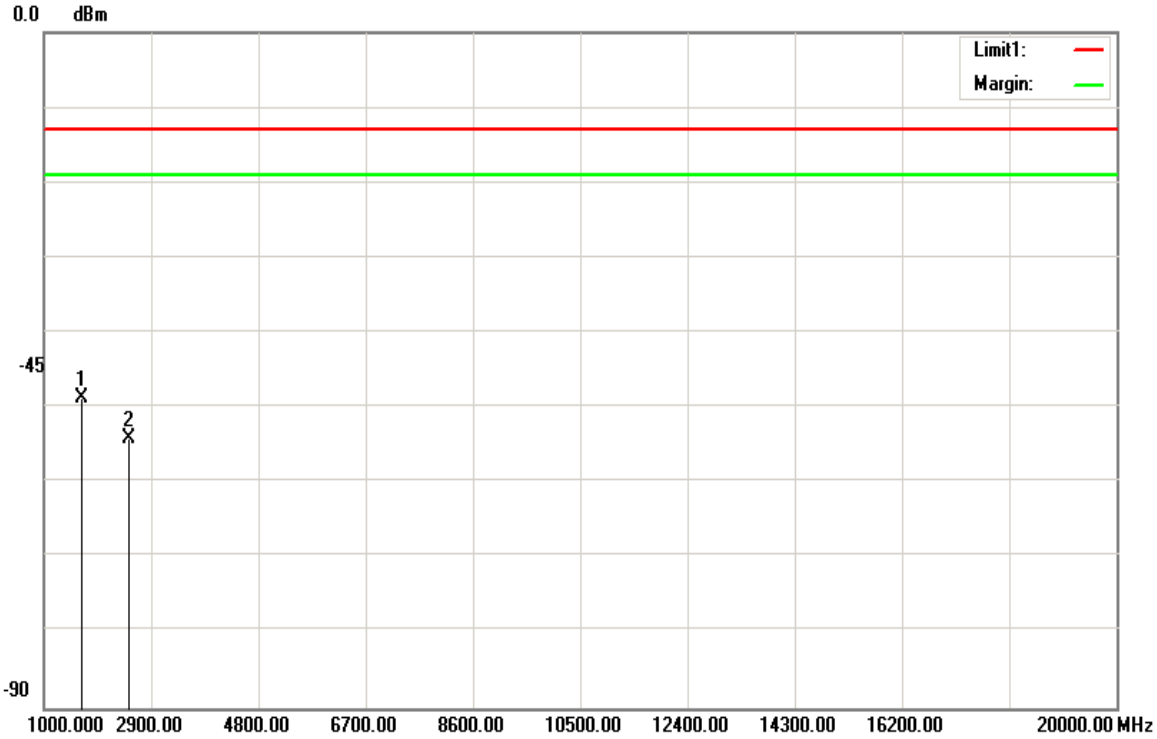
| | | | | | | |

***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*

| | | | |
|---|---|---|---|
| **Operation Mode:** | Tx / Mid CH | **Test Date:** | Aug 18, 2017 |
| **Temperature:** | 21°C | **Tested by:** | Kevin Kuo |
| **Humidity:** | 52% RH | **Polarity:** | Ver. |




| Frequency (MHz) | S.G. (dBm) | Ant.Gain (dBi) | Emission level (dBm) | Limit (dBm) | Margin (dB) | Antenna Polarization (V/H) |
|---|---|---|---|---|---|---|
| 1664.000 | -50.18 | 1.52 | -48.66 | -13.00 | -35.66 | V |
| 2496.000 | -55.96 | 1.85 | -54.11 | -13.00 | -41.11 | V |
| N/A | | | | | | |
| | | | | | | |
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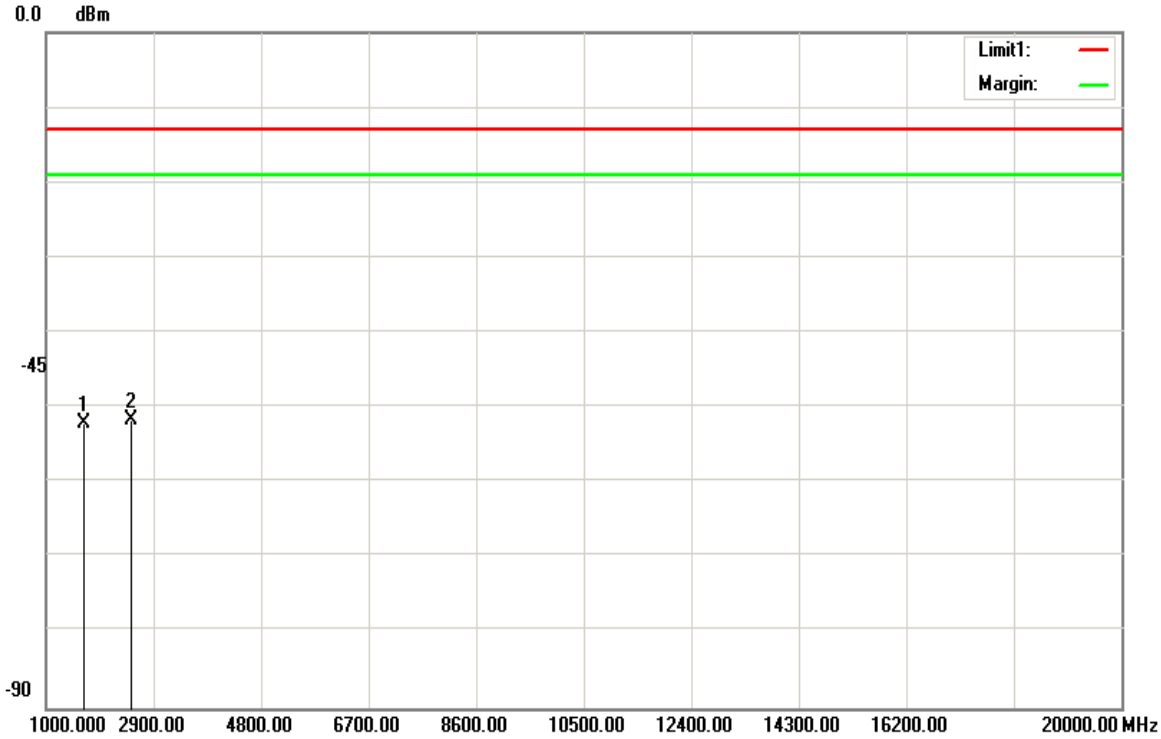
| | | | | | | |

***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*

| | | | |
|---|---|---|---|
| **Operation Mode:** | Tx / Mid CH | **Test Date:** | Aug 18, 2017 |
| **Temperature:** | 21°C | **Tested by:** | Kevin Kuo |
| **Humidity:** | 52% RH | **Polarity:** | Hor. |




| Frequency (MHz) | S.G. (dBm) | Ant.Gain (dBi) | Emission level (dBm) | Limit (dBm) | Margin (dB) | Antenna Polarization (V/H) |
|---|---|---|---|---|---|---|
| 1664.000 | -53.51 | 1.52 | -51.99 | -13.00 | -38.99 | H |
| 2496.000 | -53.46 | 1.85 | -51.61 | -13.00 | -38.61 | H |
| N/A | | | | | | |
| | | | | | | |
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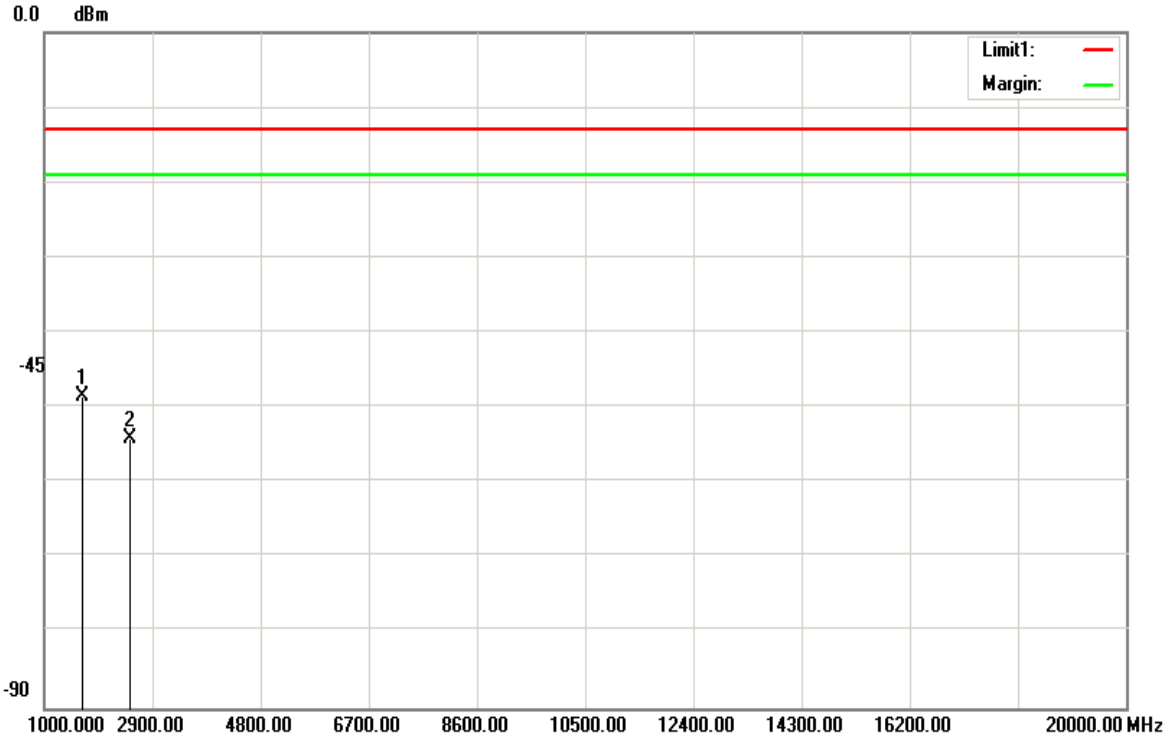
| | | | | | | |

***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*

| | | | |
|---|---|---|---|
| **Operation Mode:** | Tx / High CH | **Test Date:** | Aug 18, 2017 |
| **Temperature:** | 21°C | **Tested by:** | Kevin Kuo |
| **Humidity:** | 52% RH | **Polarity:** | Ver. |

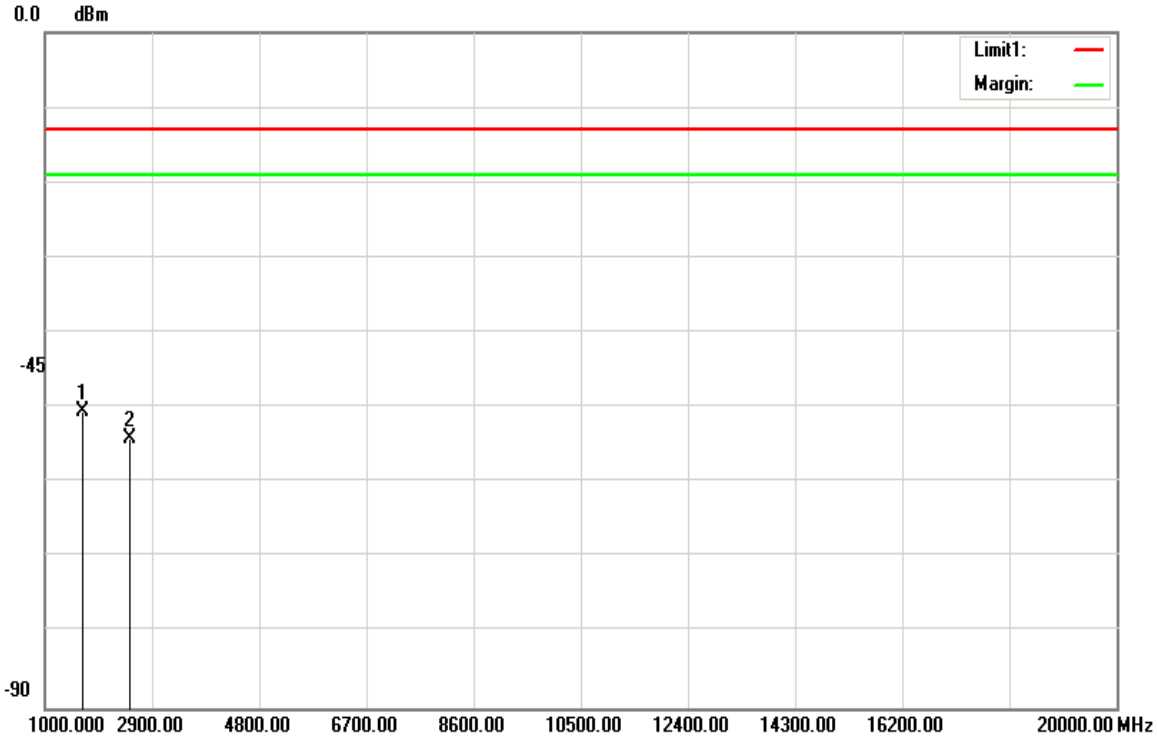



| Frequency (MHz) | S.G. (dBm) | Ant.Gain (dBi) | Emission level (dBm) | Limit (dBm) | Margin (dB) | Antenna Polarization (V/H) |
|---|---|---|---|---|---|---|
| 1679.000 | -49.99 | 1.52 | -48.47 | -13.00 | -35.47 | V |
| 2519.000 | -56.28 | 2.21 | -54.07 | -13.00 | -41.07 | V |
| N/A | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*

| | | | |
|---|---|---|---|
| **Operation Mode:** | Tx / High CH | **Test Date:** | Aug 18, 2017 |
| **Temperature:** | 21°C | **Tested by:** | Kevin Kuo |
| **Humidity:** | 52% RH | **Polarity:** | Hor. |




| Frequency (MHz) | S.G. (dBm) | Ant.Gain (dBi) | Emission level (dBm) | Limit (dBm) | Margin (dB) | Antenna Polarization (V/H) |
|---|---|---|---|---|---|---|
| 1679.000 | -51.94 | 1.52 | -50.42 | -13.00 | -37.42 | H |
| 2519.000 | -56.43 | 2.21 | -54.22 | -13.00 | -41.22 | H |
| N/A | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*