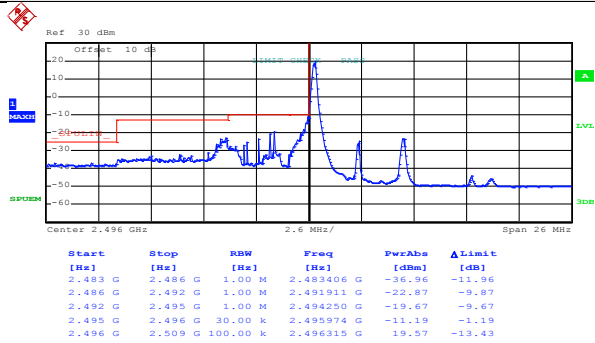


LTE band 41 part:

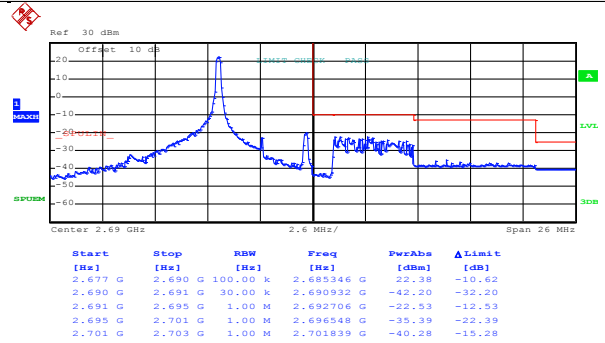
5MHz:

Test Mode: LTE band 41 (QPSK RB Size 1 & RB Offset 0)



Date: 16.NOV.2016 01:22:26

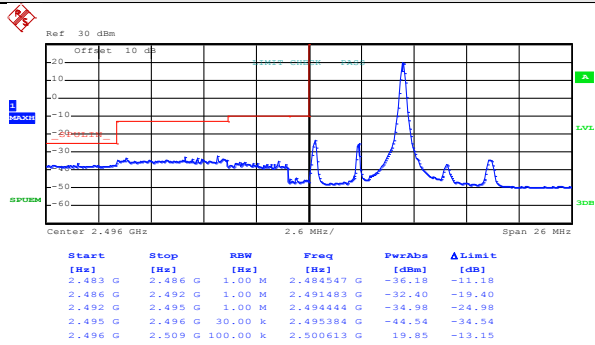
Lowest channel



Date: 16.NOV.2016 02:24:28

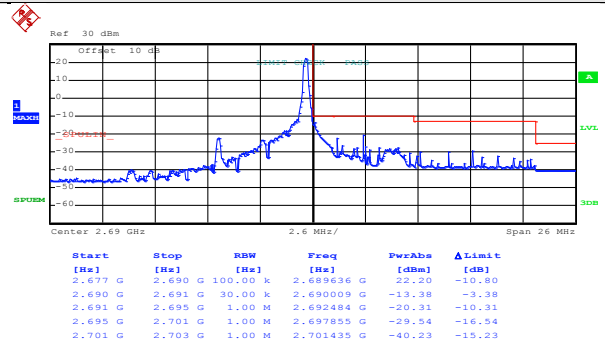
Highest channel

Test Mode: LTE band 41 (QPSK RB Size 1 & RB Offset 24)



Date: 16.NOV.2016 01:23:06

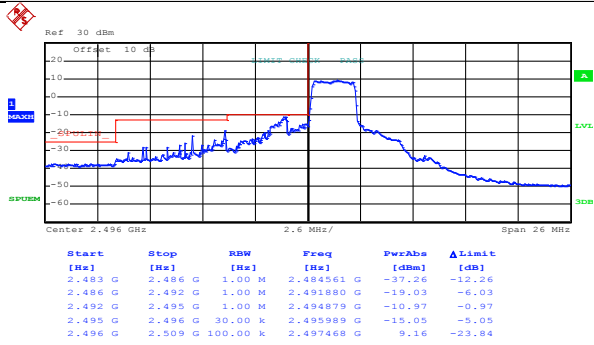
Lowest channel



Date: 16.NOV.2016 02:27:35

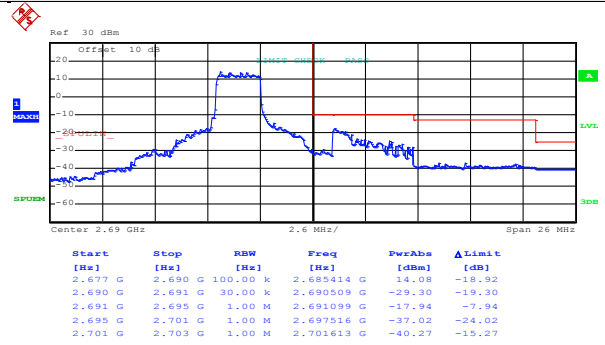
Highest channel

Test Mode: LTE band 41 (QPSK RB Size 12 &RB Offset 0)



Date: 16.NOV.2016 01:23:56

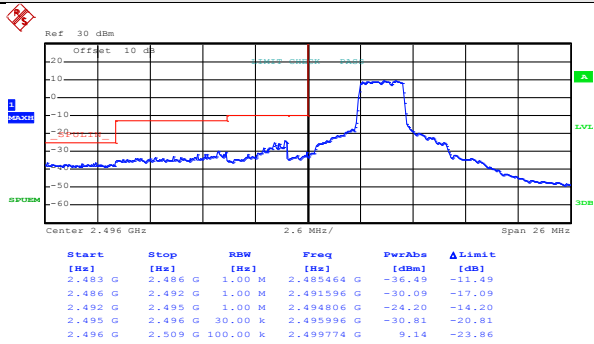
Lowest channel



Date: 16.NOV.2016 02:25:44

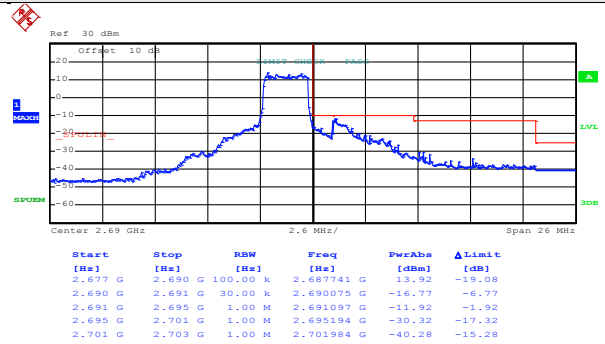
Highest channel

Test Mode: LTE band 41 (QPSK RB Size 12 &RB Offset 11)



Date: 16.NOV.2016 01:25:08

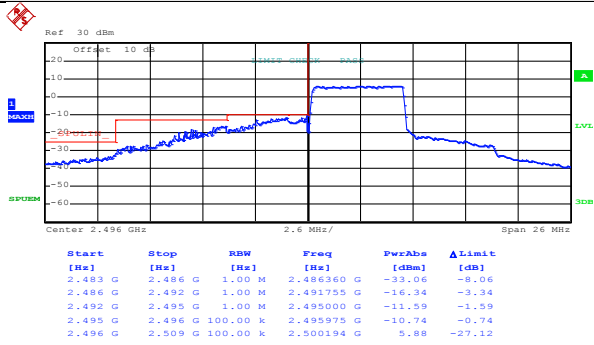
Lowest channel



Date: 16.NOV.2016 02:28:44

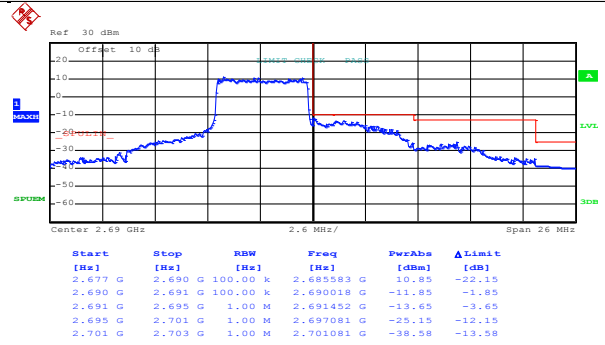
Highest channel

Test Mode: LTE band 41 (QPSK RB Size 25 &RB Offset 0)



Date: 16.NOV.2016 01:27:49

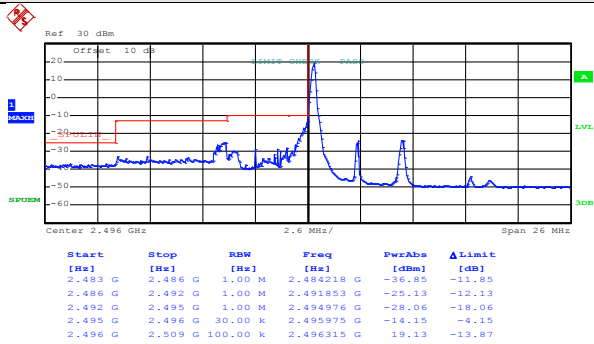
Lowest channel



Date: 16.NOV.2016 02:29:40

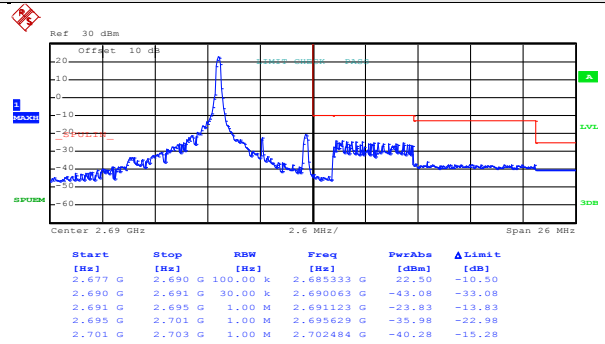
Highest channel

Test Mode: LTE band 41 (16QAM RB Size 1 &RB Offset 0)



Date: 16.NOV.2016 01:22:44

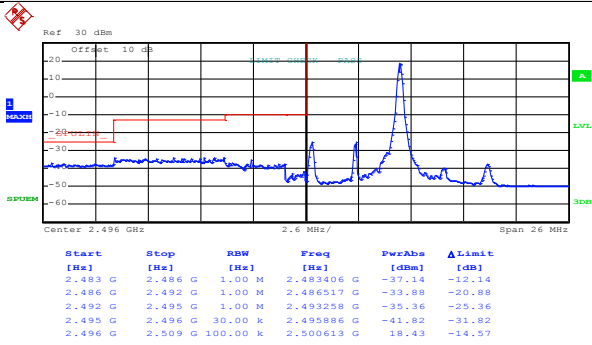
Lowest channel



Date: 16.NOV.2016 02:25:19

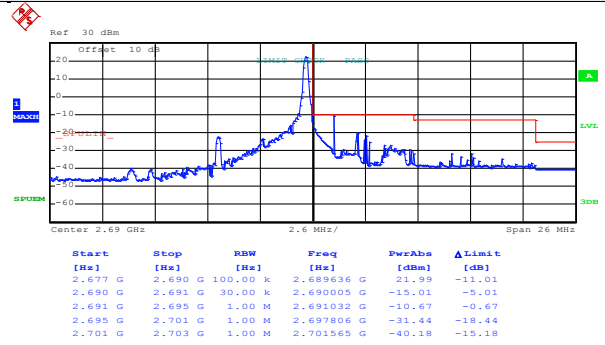
Highest channel

Test Mode: LTE band 41 (16QAM RB Size 1 & RB Offset 24)



Date: 16.NOV.2016 01:23:20

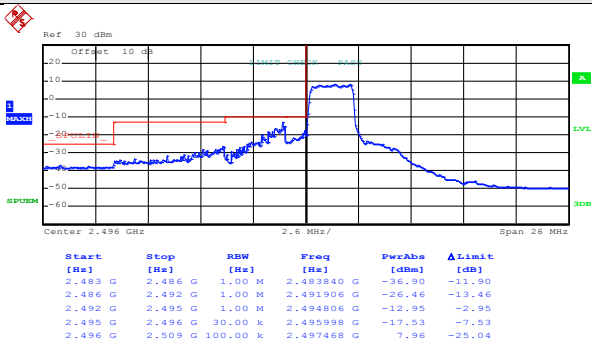
Lowest channel



Date: 16.NOV.2016 02:28:13

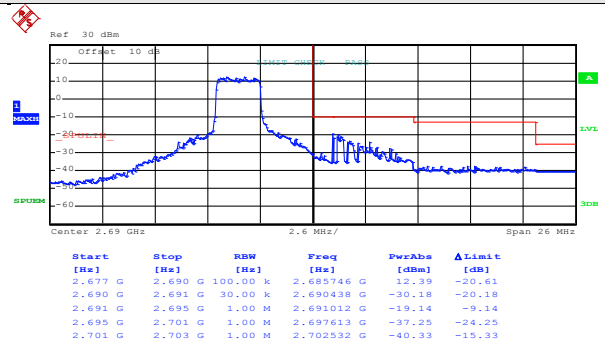
Highest channel

Test Mode: LTE band 41 (16QAM RB Size 12 & RB Offset 0)



Date: 16.NOV.2016 01:24:16

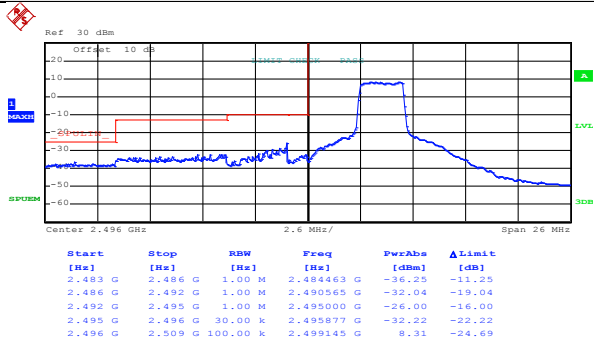
Lowest channel



Date: 16.NOV.2016 02:26:00

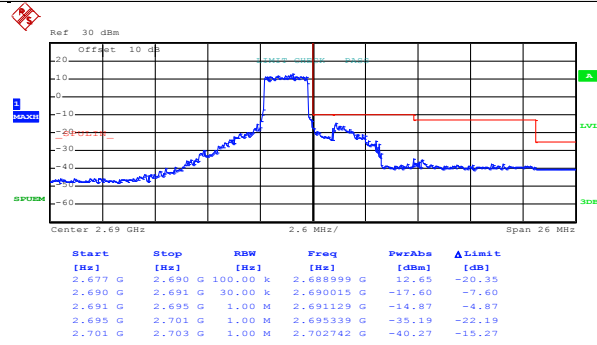
Highest channel

Test Mode: LTE band 41 (16QAM RB Size 12 &RB Offset 11)



Date: 16.NOV.2016 01:25:26

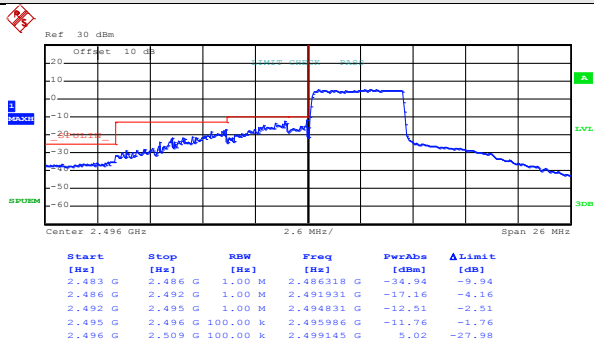
Lowest channel



Date: 16.NOV.2016 02:29:01

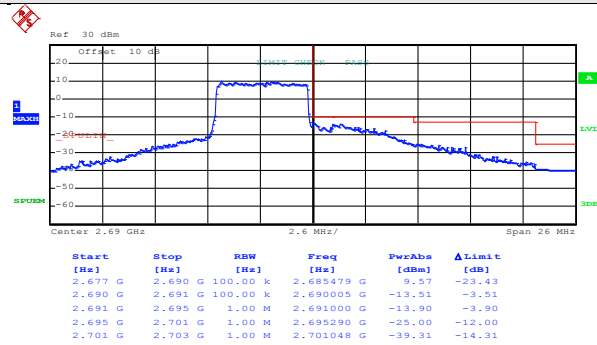
Highest channel

Test Mode: LTE band 41 (16QAM RB Size 25 &RB Offset 0)



Date: 16.NOV.2016 01:28:06

Lowest channel

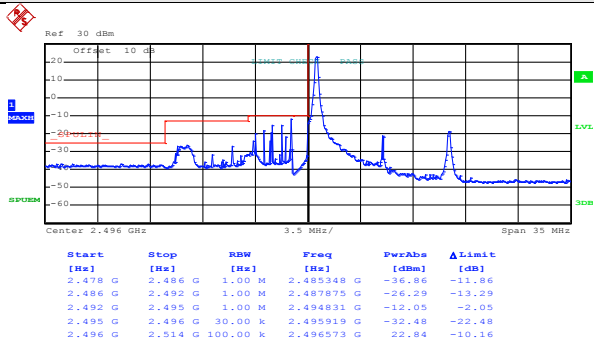


Date: 16.NOV.2016 02:30:39

Highest channel

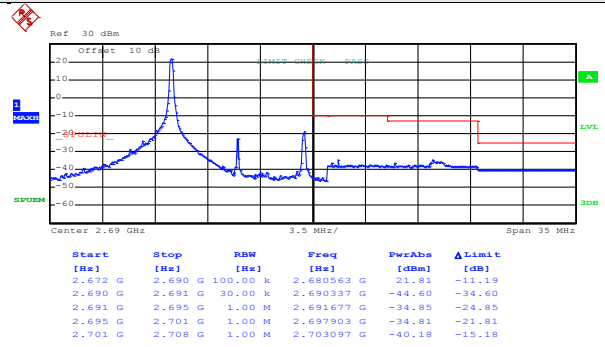
10MHz:

Test Mode: LTE band 41 (QPSK RB Size 1 &RB Offset 0)



Date: 16.NOV.2016 02:35:34

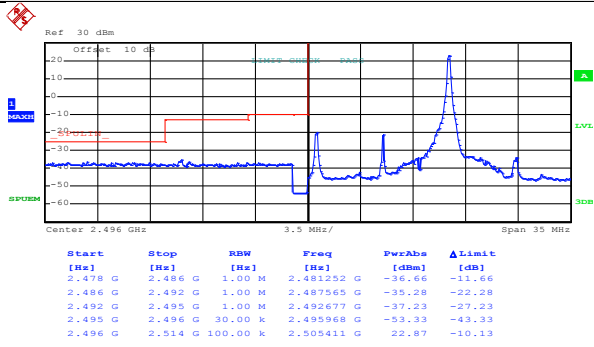
Lowest channel



Date: 16.NOV.2016 02:41:24

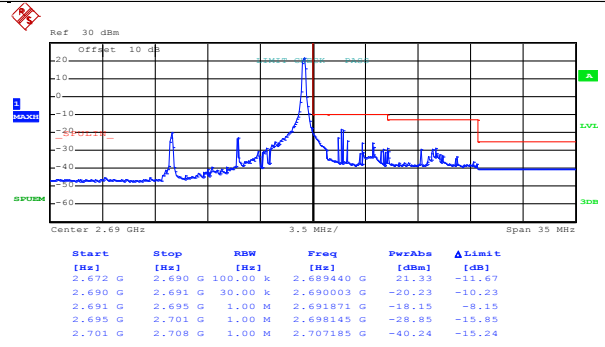
Highest channel

Test Mode: LTE band 41 (QPSK RB Size 1 &RB Offset 49)



Date: 16.NOV.2016 02:37:00

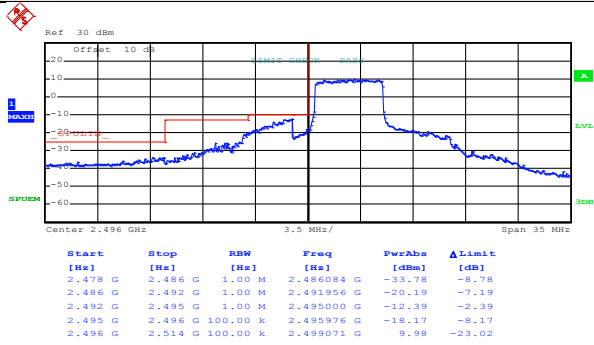
Lowest channel



Date: 16.NOV.2016 02:42:33

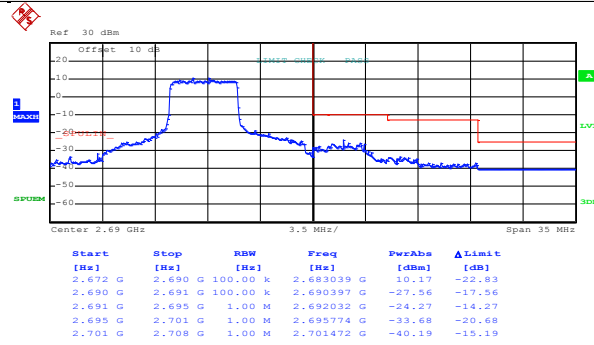
Highest channel

Test Mode: LTE band 41 (QPSK RB Size 25 &RB Offset 0)



Date: 16.NOV.2016 02:37:58

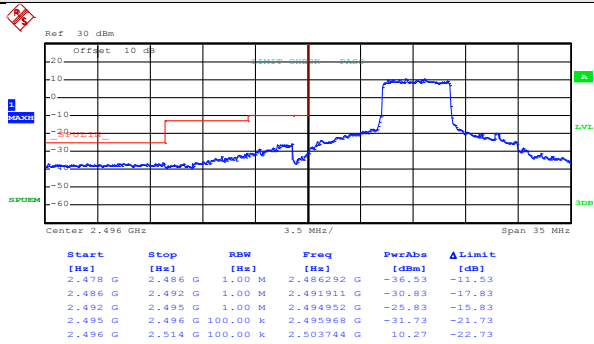
Lowest channel



Date: 16.NOV.2016 02:43:50

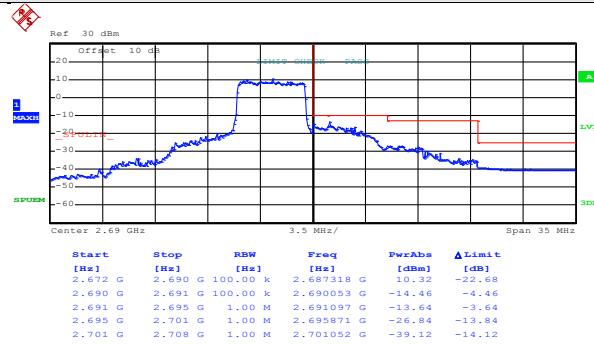
Highest channel

Test Mode: LTE band 41 (QPSK RB Size 25 &RB Offset 24)



Date: 16.NOV.2016 02:38:40

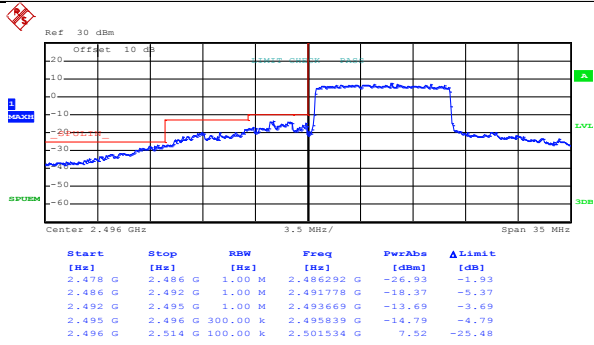
Lowest channel



Date: 16.NOV.2016 02:44:31

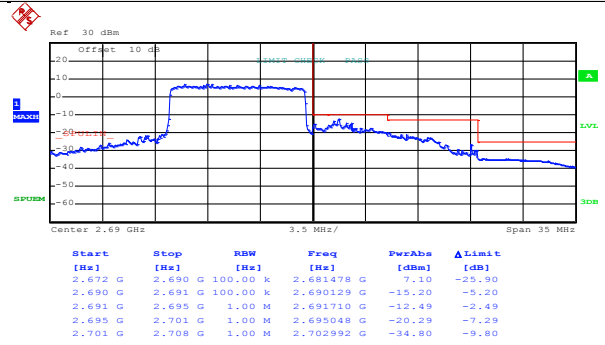
Highest channel

Test Mode: LTE band 41 (QPSK RB Size 50 &RB Offset 0)



Date: 16.NOV.2016 02:39:46

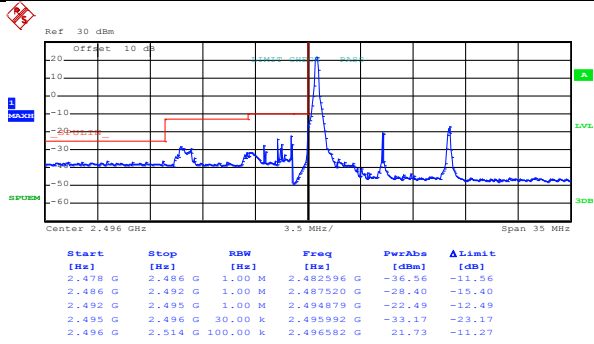
Lowest channel



Date: 16.NOV.2016 02:45:15

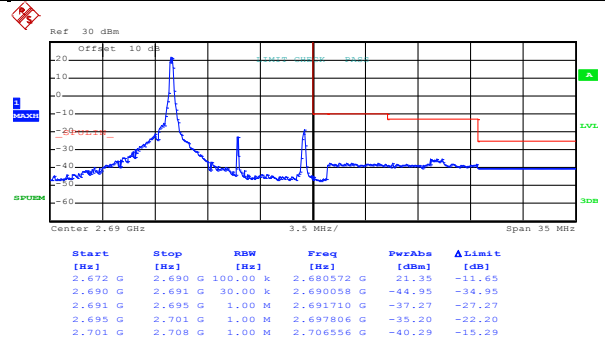
Highest channel

Test Mode: LTE band 41(16QAM RB Size 1 &RB Offset 0)



Date: 16.NOV.2016 02:35:56

Lowest channel

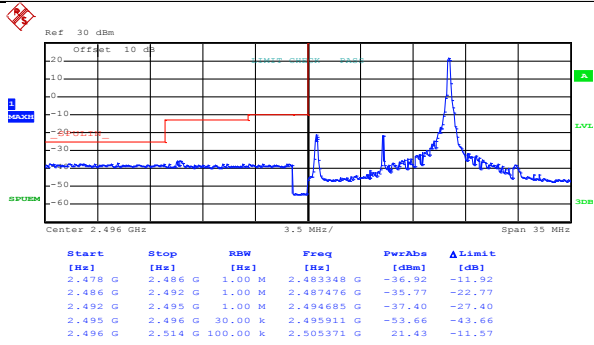


Date: 16.NOV.2016 02:41:50

Highest channel

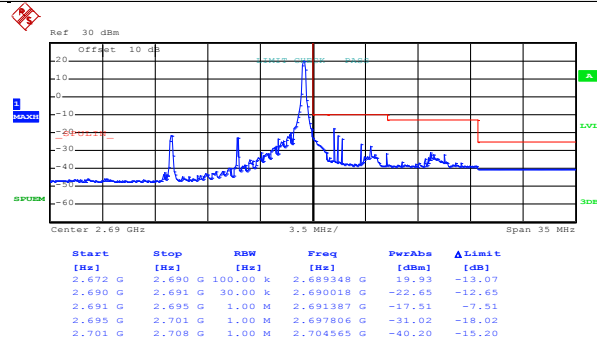


Test Mode: LTE band 41 (16QAM RB Size 1 &RB Offset 49)



Date: 16.NOV.2016 02:37:17

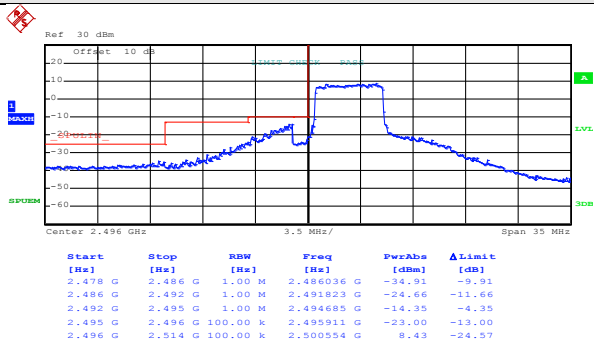
Lowest channel



Date: 16.NOV.2016 02:42:59

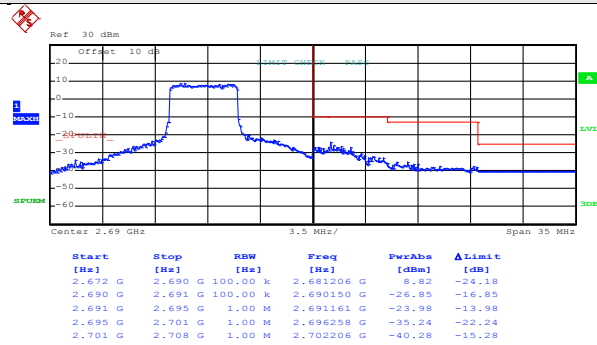
Highest channel

Test Mode: LTE band 41 (16QAM RB Size 25 &RB Offset 0)



Date: 16.NOV.2016 02:38:15

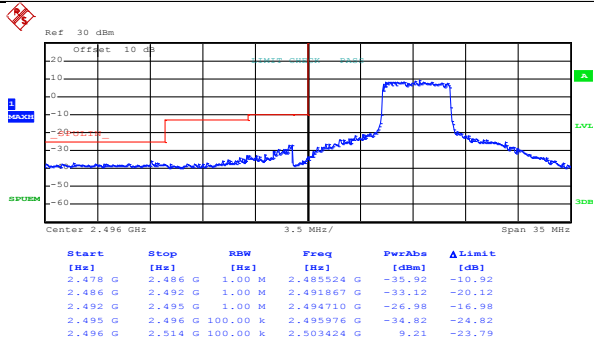
Lowest channel



Date: 16.NOV.2016 02:44:08

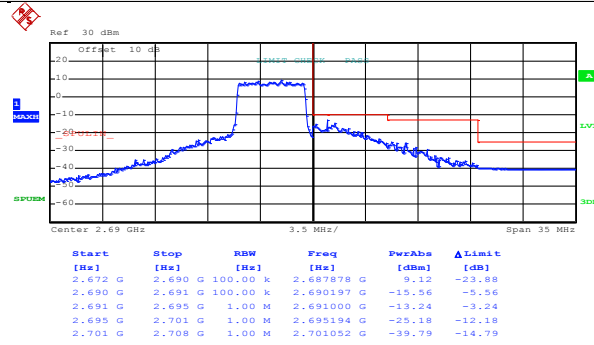
Highest channel

Test Mode: LTE band 41(16QAM RB Size 25 &RB Offset 24)



Date: 16.NOV.2016 02:38:55

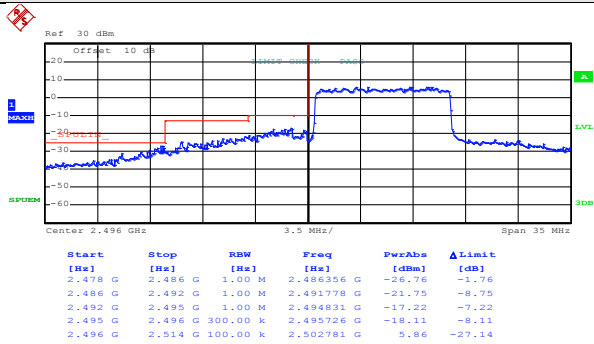
Lowest channel



Date: 16.NOV.2016 02:44:56

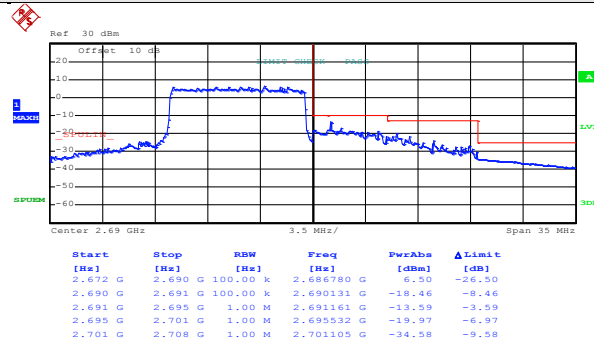
Highest channel

Test Mode: LTE band 41(16QAM RB Size 50 &RB Offset 0)



Date: 16.NOV.2016 02:39:57

Lowest channel

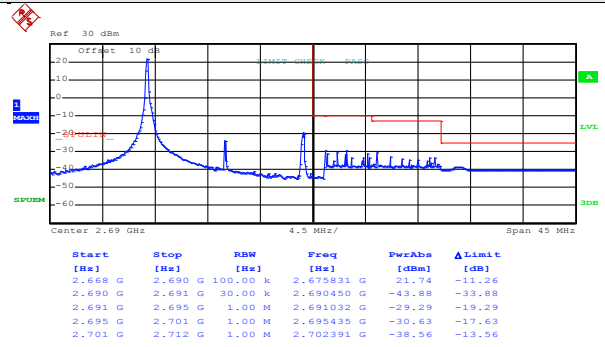
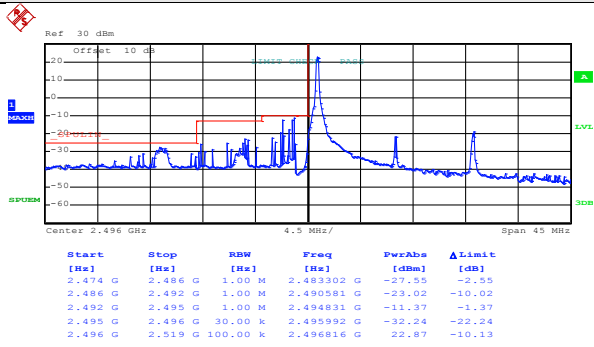


Date: 16.NOV.2016 02:45:28

Highest channel

15MHz:

Test Mode: LTE band 41(QPSK RB Size 1 &RB Offset 0)



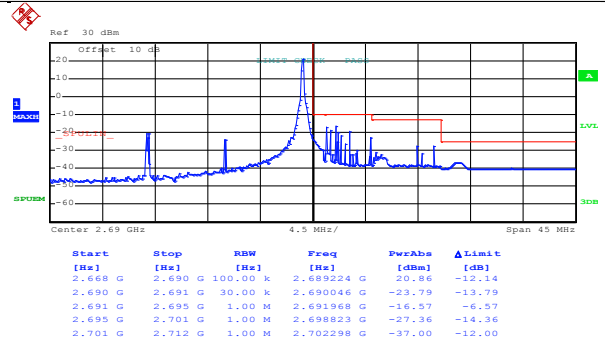
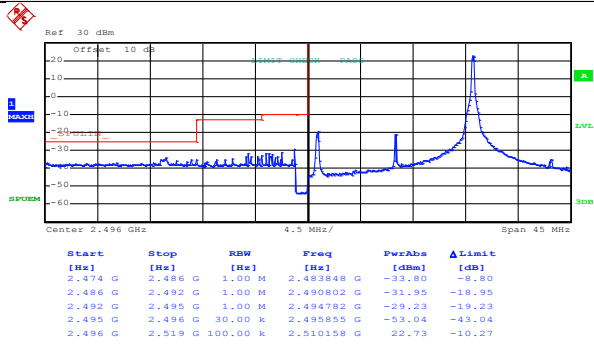
Date: 16.NOV.2016 02:50:41

Date: 16.NOV.2016 02:59:54

Lowest channel

Highest channel

Test Mode: LTE band 41(QPSK RB Size 1 &RB Offset 74)



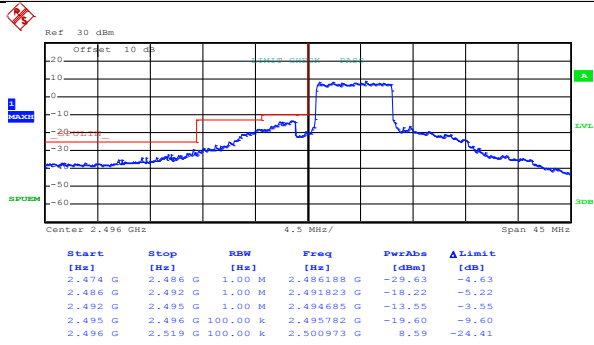
Date: 16.NOV.2016 02:51:51

Date: 16.NOV.2016 03:00:48

Lowest channel

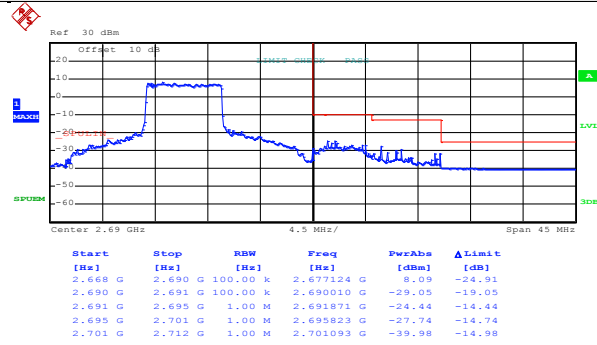
Highest channel

Test Mode: LTE band 41(QPSK RB Size 36 &RB Offset 0)



Date: 16.NOV.2016 02:53:35

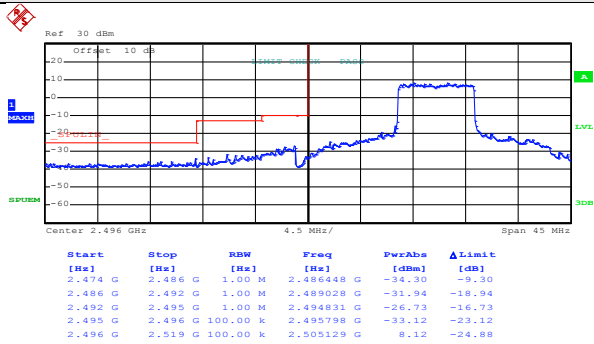
Lowest channel



Date: 16.NOV.2016 03:02:16

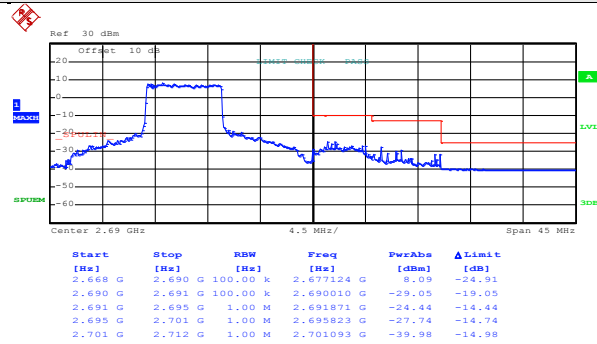
Highest channel

Test Mode: LTE band 41(QPSK RB Size 36 &RB Offset 37)



Date: 16.NOV.2016 02:55:56

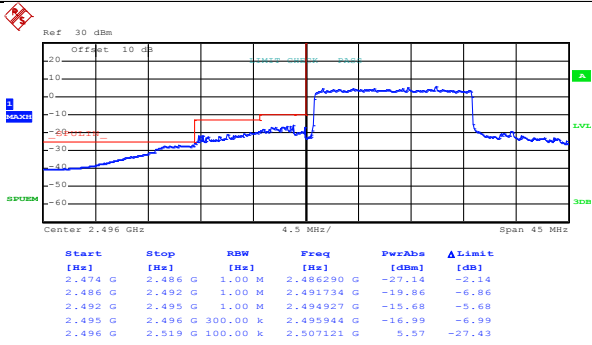
Lowest channel



Date: 16.NOV.2016 03:02:16

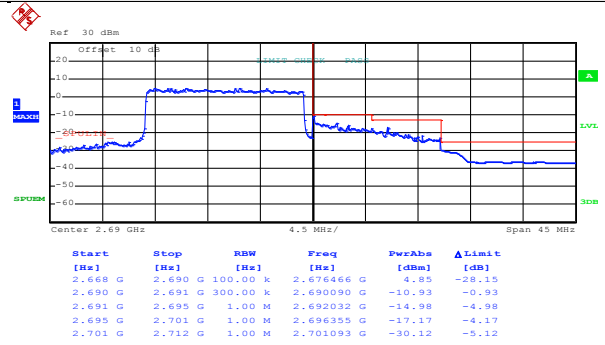
Highest channel

Test Mode: LTE band 41(QPSK RB Size 75 &RB Offset 0)



Date: 16.NOV.2016 02:58:04

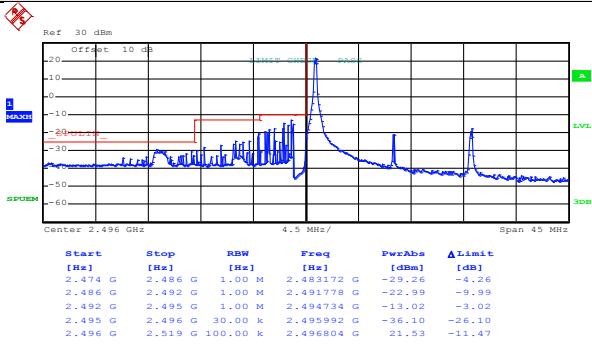
Lowest channel



Date: 16.NOV.2016 03:03:56

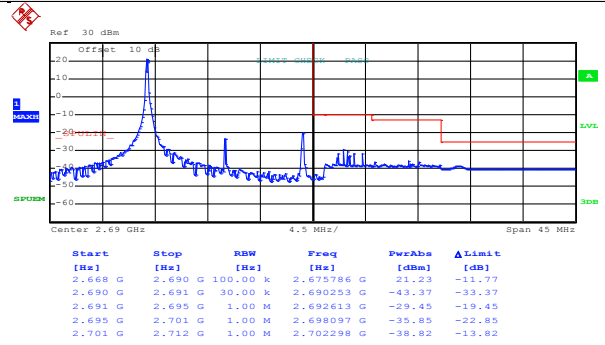
Highest channel

Test Mode: LTE band 41(16QAM RB Size 1 &RB Offset 0)



Date: 16.NOV.2016 02:51:17

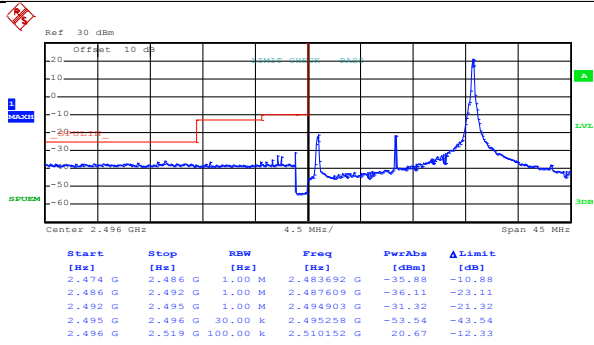
Lowest channel



Date: 16.NOV.2016 03:00:24

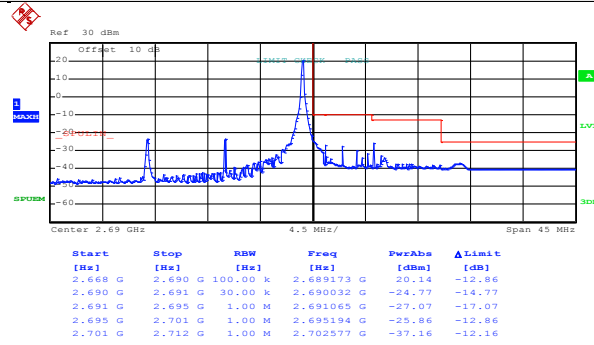
Highest channel

Test Mode: LTE band 41 (16QAM RB Size 1 & RB Offset 74)



Date: 16.NOV.2016 02:52:15

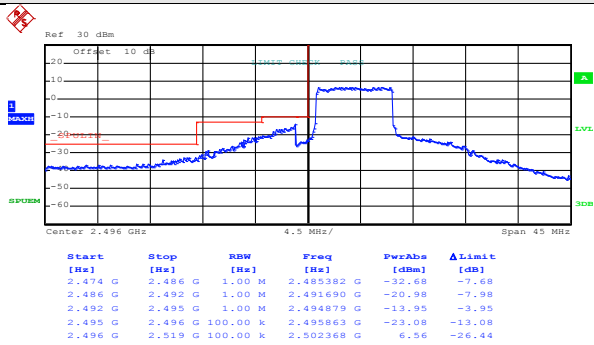
Lowest channel



Date: 16.NOV.2016 03:01:04

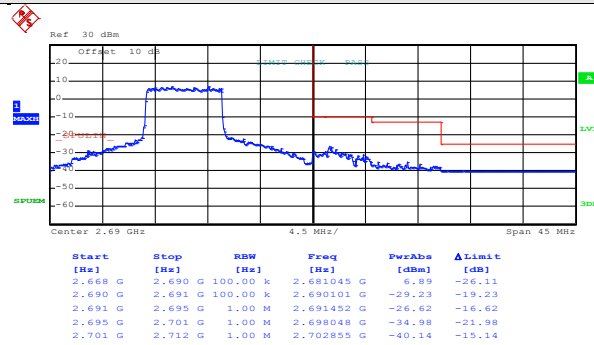
Highest channel

Test Mode: LTE band 41 (16QAM RB Size 36 & RB Offset 0)



Date: 16.NOV.2016 02:55:15

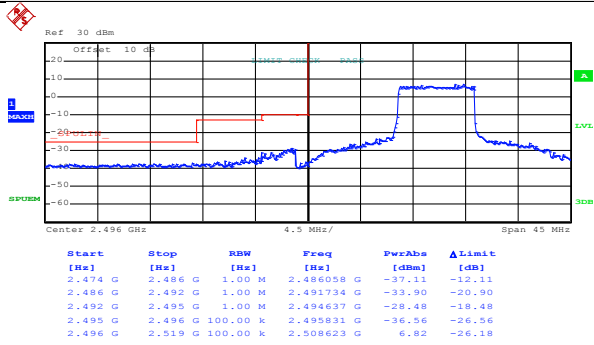
Lowest channel



Date: 16.NOV.2016 03:02:30

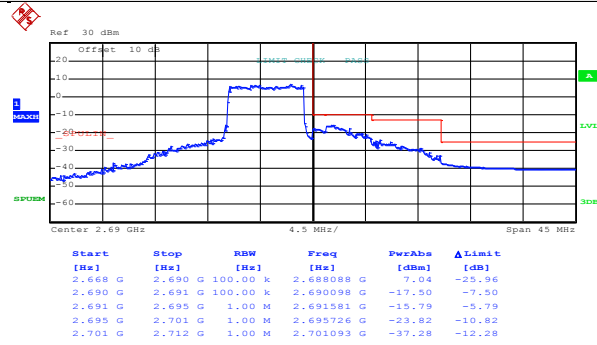
Highest channel

Test Mode: LTE band 41(16QAM RB Size 36 &RB Offset 37)



Date: 16.NOV.2016 02:56:11

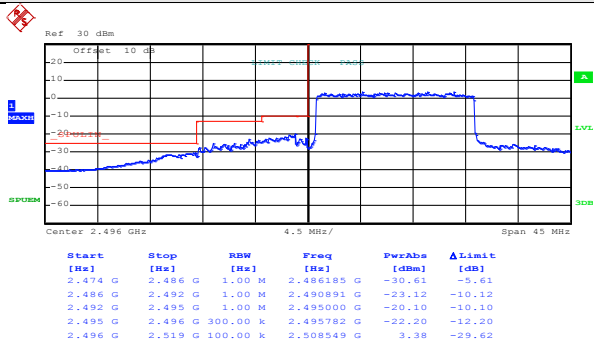
Lowest channel



Date: 16.NOV.2016 03:03:21

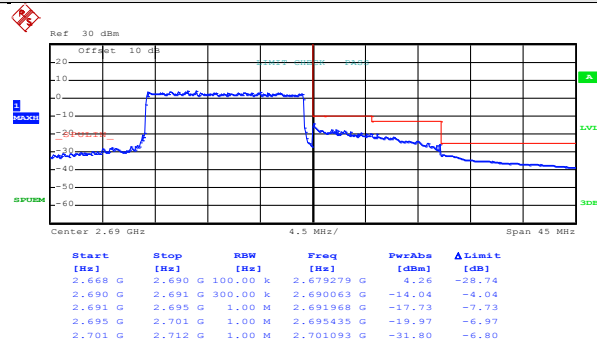
Highest channel

Test Mode: LTE band 41(16QAM RB Size 75 &RB Offset 0)



Date: 16.NOV.2016 02:58:18

Lowest channel

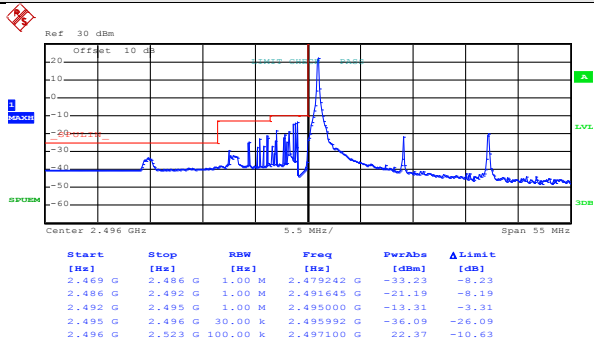


Date: 16.NOV.2016 03:22:11

Highest channel

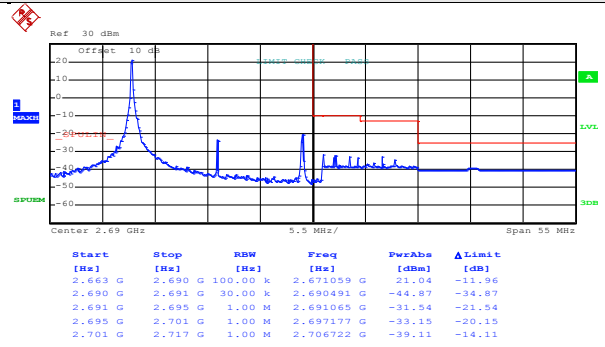
20MHz:

Test Mode: LTE band 41(QPSK RB Size 1 &RB Offset 0)



Date: 16.NOV.2016 03:07:14

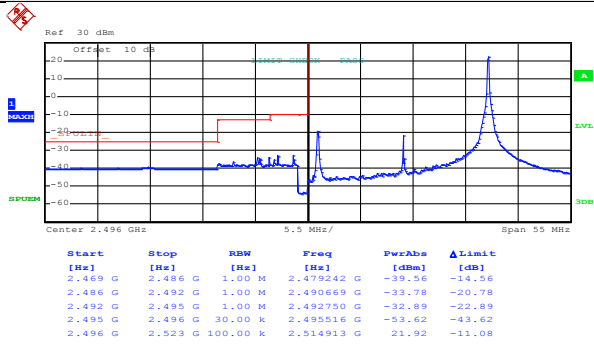
Lowest channel



Date: 16.NOV.2016 03:12:46

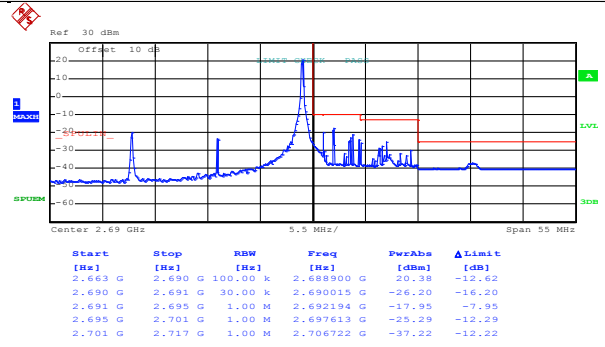
Highest channel

Test Mode: LTE band 41(QPSK RB Size 1 &RB Offset 99)



Date: 16.NOV.2016 03:07:55

Lowest channel

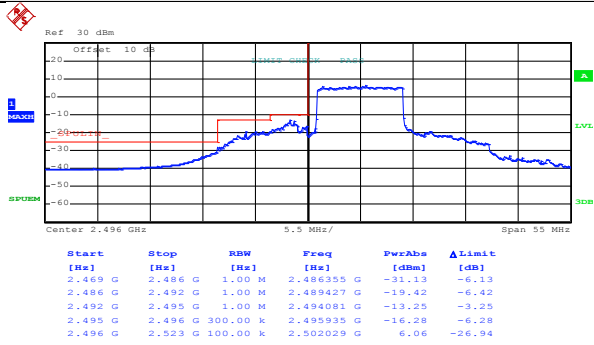


Date: 16.NOV.2016 03:13:49

Highest channel

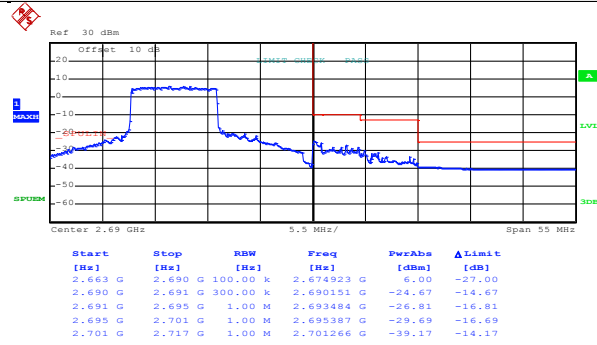


Test Mode: LTE band 41(QPSK RB Size 50 &RB Offset 0)



Date: 16.NOV.2016 03:09:15

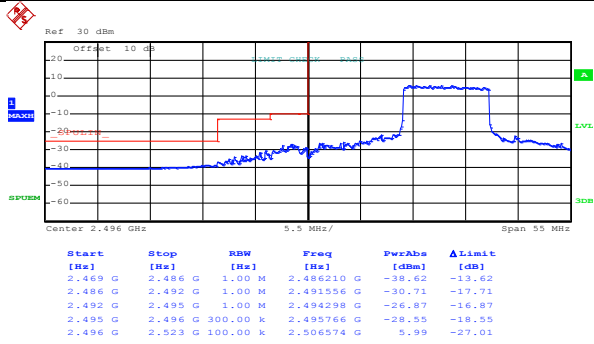
Lowest channel



Date: 16.NOV.2016 03:14:56

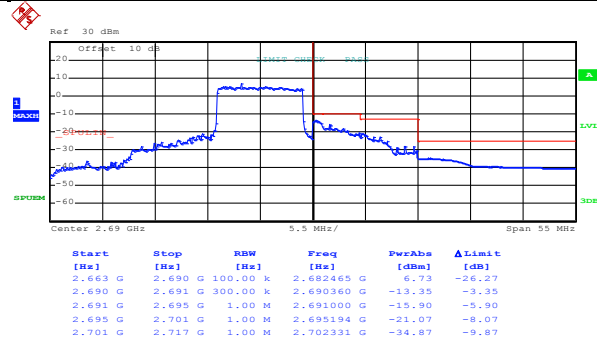
Highest channel

Test Mode: LTE band 41 (QPSK RB Size 50 &RB Offset 49)



Date: 16.NOV.2016 03:09:56

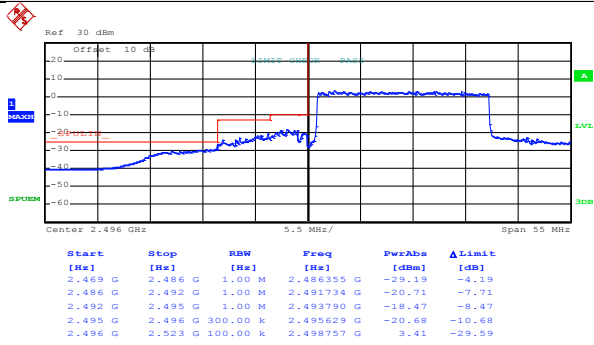
Lowest channel



Date: 16.NOV.2016 03:15:38

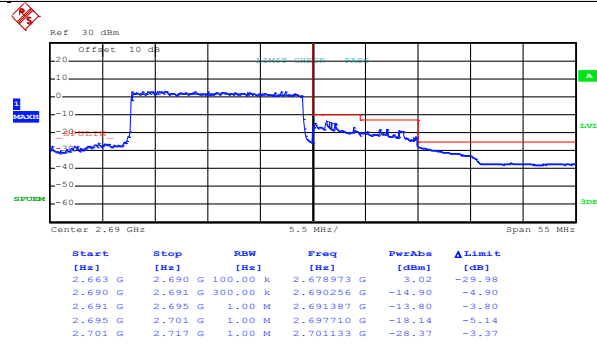
Highest channel

Test Mode: LTE band 41(QPSK RB Size 100 &RB Offset 0)



Date: 16.NOV.2016 03:10:50

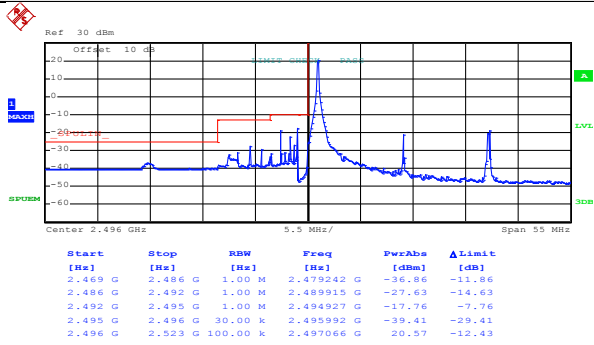
Lowest channel



Date: 16.NOV.2016 03:16:26

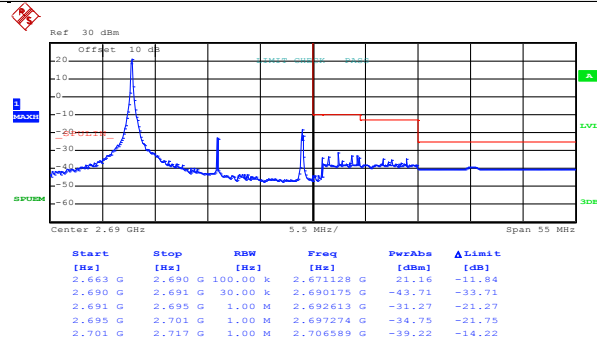
Highest channel

Test Mode: LTE band 41(16QAM RB Size 1 &RB Offset 0)



Date: 16.NOV.2016 03:07:33

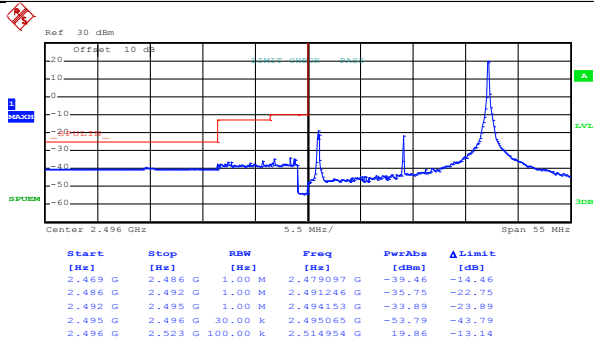
Lowest channel



Date: 16.NOV.2016 03:13:21

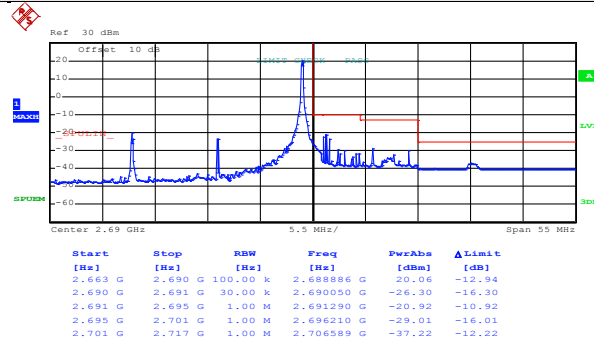
Highest channel

Test Mode: LTE band 41(16QAM RB Size 1 &RB Offset 99)



Date: 16.NOV.2016 03:08:23

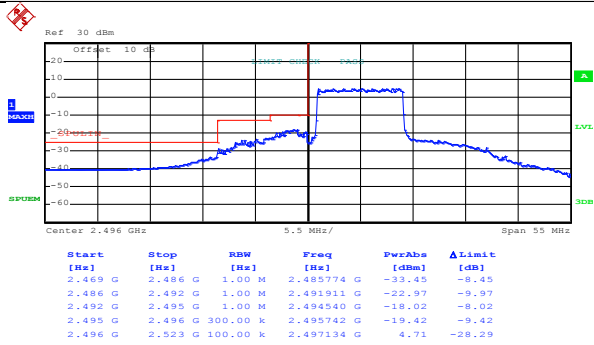
Lowest channel



Date: 16.NOV.2016 03:14:19

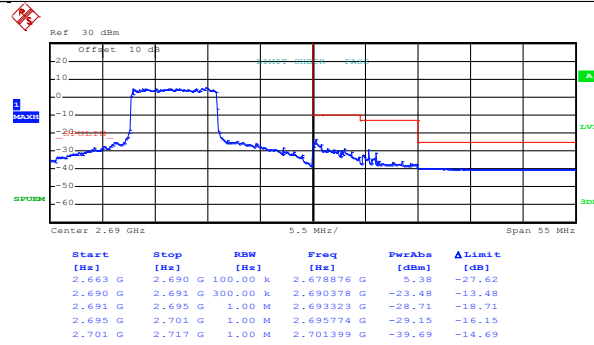
Highest channel

Test Mode: LTE band 41(16QAM RB Size 50 &RB Offset 0)



Date: 16.NOV.2016 03:09:35

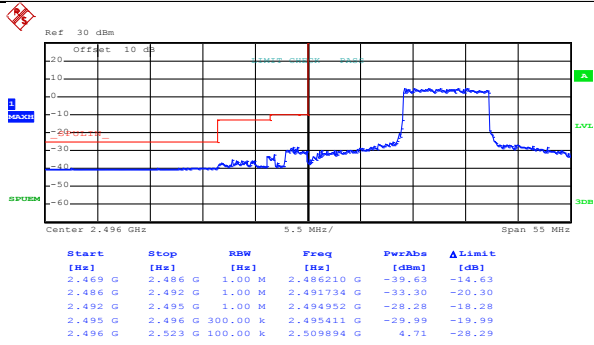
Lowest channel



Date: 16.NOV.2016 03:15:15

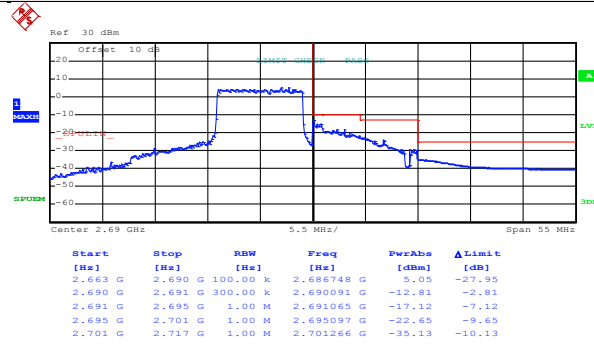
Highest channel

Test Mode: LTE band 41 (16QAM RB Size 50 &RB Offset 49)



Date: 16.NOV.2016 03:10:10

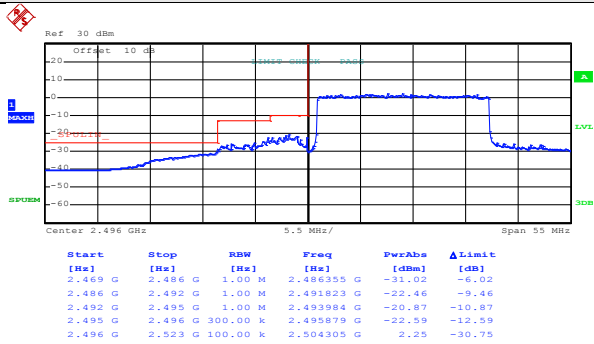
Lowest channel



Date: 16.NOV.2016 03:15:54

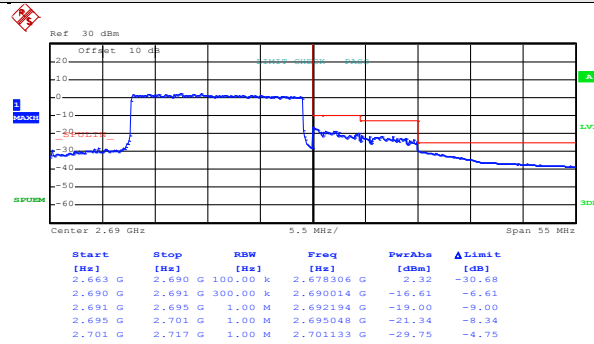
Highest channel

Test Mode: LTE band 41 (16QAM RB Size 100 &RB Offset 0)



Date: 16.NOV.2016 03:11:07

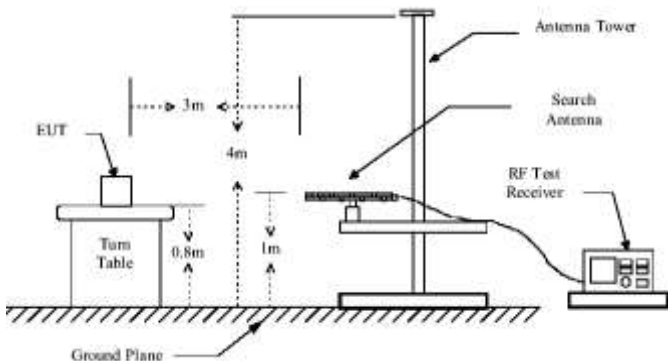
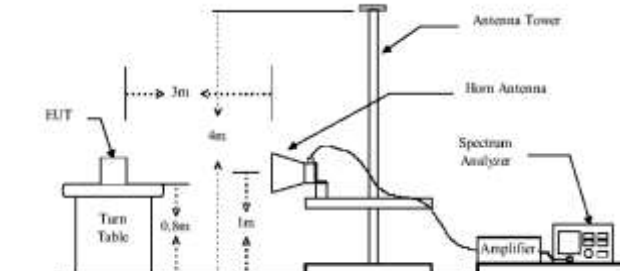
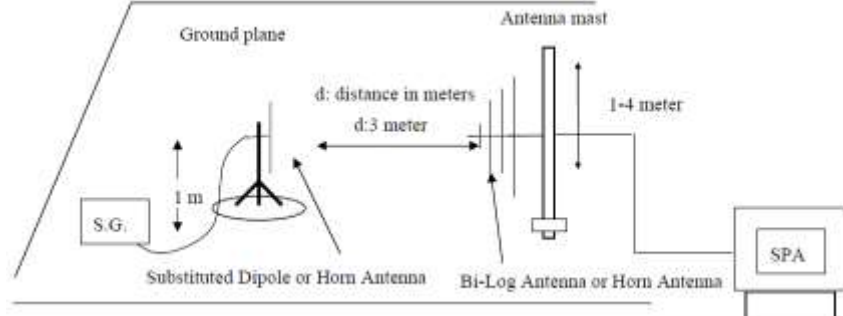
Lowest channel



Date: 16.NOV.2016 03:16:49

Highest channel

## 6.10 ERP, EIRP Measurement

|                   |  |
|-------------------|--|
| Test Requirement: | FCC part 22.913 (a), 24.232 (c), part 27.50(c), part 27.50(d), part 27.50 (h)  |
| Test Method:      | FCC part2.1046   |
| Limit:            | LTE Band 2: 2W EIRP<br>LTE Band 4: 1W EIRP<br>LTE Band 5: 7W ERP<br>LTE Band 7: 2W EIRP<br>LTE Band 17: 3W ERP<br>LTE Band 41: 2W EIRP   |
| Test setup:       | <p>Below 1GHz</p>  <p>Above 1GHz</p>  <p>Substituted method:</p>  |

|                          |  |
|--------------------------|--|
| <p>Test Procedure:</p>   | <ol style="list-style-type: none"> <li>1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.</li> <li>2. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated.</li> <li>3. ERP in frequency band below 1GHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows:<br/> <math display="block">\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}</math> </li> <li>4. EIRP in frequency band above 1GHz were measured using a substitution method. The EUT was replaced by or horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows:<br/> <math display="block">\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}</math> </li> <li>5. The worse case was relating to the conducted output power.</li> </ol> |
| <p>Test Instruments:</p> | <p>Refer to section 5.8 for details</p>  |
| <p>Test mode:</p>        | <p>Refer to section 5.3 for details</p>  |
| <p>Test results:</p>     | <p>Passed</p>  |

Measurement Data (worst case):

LTE band 2 part

Lowest channel

| Frequency (MHz)                 | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | EIRP(dBm) | Limit (dBm) | Result |
|---------------------------------|------------|------------|----------|----------|--------------|-----------|-------------|--------|
| 1.4MHz(RB size 1 & RB offset 0) |            |            |          |          |              |           |             |        |
| 1850.70                         | 18607      | QPSK       | 1.4      | H        | V            | 21.72     | 33.00       | Pass   |
|                                 |            |            |          |          | H            | 26.82     |             |        |
| 1850.70                         | 18607      | 16QAM      | 1.4      | H        | V            | 21.81     |             |        |
|                                 |            |            |          |          | H            | 27.07     |             |        |
| 1.4MHz(RB size 3 & RB offset 0) |            |            |          |          |              |           |             |        |
| 1850.70                         | 18607      | QPSK       | 1.4      | H        | V            | 21.61     | 33.00       | Pass   |
|                                 |            |            |          |          | H            | 26.78     |             |        |
| 1850.70                         | 18607      | 16QAM      | 1.4      | H        | V            | 21.79     |             |        |
|                                 |            |            |          |          | H            | 27.06     |             |        |
| 1.4MHz(RB size 6 & RB offset 0) |            |            |          |          |              |           |             |        |
| 1850.70                         | 18607      | QPSK       | 1.4      | H        | V            | 20.51     | 33.00       | Pass   |
|                                 |            |            |          |          | H            | 25.73     |             |        |
| 1850.70                         | 18607      | 16QAM      | 1.4      | H        | V            | 20.85     |             |        |
|                                 |            |            |          |          | H            | 26.07     |             |        |

Middle channel

| Frequency (MHz)                 | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | EIRP(dBm) | Limit (dBm) | Result |
|---------------------------------|------------|------------|----------|----------|--------------|-----------|-------------|--------|
| 1.4MHz(RB size 1 & RB offset 0) |            |            |          |          |              |           |             |        |
| 1880.00                         | 18900      | QPSK       | 1.4      | H        | V            | 21.56     | 33.00       | Pass   |
|                                 |            |            |          |          | H            | 26.14     |             |        |
| 1880.00                         | 18900      | 16QAM      | 1.4      | H        | V            | 21.58     |             |        |
|                                 |            |            |          |          | H            | 26.98     |             |        |
| 1.4MHz(RB size 3 & RB offset 0) |            |            |          |          |              |           |             |        |
| 1880.00                         | 18900      | QPSK       | 1.4      | H        | V            | 21.54     | 33.00       | Pass   |
|                                 |            |            |          |          | H            | 26.41     |             |        |
| 1880.00                         | 18900      | 16QAM      | 1.4      | H        | V            | 21.84     |             |        |
|                                 |            |            |          |          | H            | 26.89     |             |        |
| 1.4MHz(RB size 6 & RB offset 0) |            |            |          |          |              |           |             |        |
| 1880.00                         | 18900      | QPSK       | 1.40     | H        | V            | 20.87     | 33.00       | Pass   |
|                                 |            |            |          |          | H            | 25.14     |             |        |
| 1880.00                         | 18900      | 16QAM      | 1.40     | H        | V            | 20.47     |             |        |
|                                 |            |            |          |          | H            | 25.99     |             |        |

### Highest channel

| Frequency (MHz)                 | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | EIRP(dBm) | Limit (dBm) | Result |
|---------------------------------|------------|------------|----------|----------|--------------|-----------|-------------|--------|
| 1.4MHz(RB size 1 & RB offset 0) |            |            |          |          |              |           |             |        |
| 1909.30                         | 19193      | QPSK       | 1.4      | H        | V            | 21.45     | 33.00       | Pass   |
|                                 |            |            |          |          | H            | 26.48     |             |        |
| 1909.30                         | 19193      | 16QAM      | 1.4      | H        | V            | 21.48     |             |        |
|                                 |            |            |          |          | H            | 26.35     |             |        |
| 1.4MHz(RB size 3 & RB offset 0) |            |            |          |          |              |           |             |        |
| 1909.30                         | 19193      | QPSK       | 1.4      | H        | V            | 21.98     | 33.00       | Pass   |
|                                 |            |            |          |          | H            | 26.32     |             |        |
| 1909.30                         | 19193      | 16QAM      | 1.4      | H        | V            | 21.42     |             |        |
|                                 |            |            |          |          | H            | 26.35     |             |        |
| 1.4MHz(RB size 6 & RB offset 0) |            |            |          |          |              |           |             |        |
| 1909.30                         | 19193      | QPSK       | 1.4      | H        | V            | 21.02     | 33.00       | Pass   |
|                                 |            |            |          |          | H            | 25.63     |             |        |
| 1909.30                         | 19193      | 16QAM      | 1.4      | H        | V            | 20.89     |             |        |
|                                 |            |            |          |          | H            | 25.47     |             |        |

### Lowest channel

| Frequency (MHz)                  | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | EIRP(dBm) | Limit (dBm) | Result |
|----------------------------------|------------|------------|----------|----------|--------------|-----------|-------------|--------|
| 20MHz(RB size 1 & RB offset 0)   |            |            |          |          |              |           |             |        |
| 1860.00                          | 18700      | QPSK       | 20       | H        | V            | 21.92     | 33.00       | Pass   |
|                                  |            |            |          |          | H            | 27.12     |             |        |
| 1860.00                          | 18700      | 16QAM      | 20       | H        | V            | 22.04     |             |        |
|                                  |            |            |          |          | H            | 27.26     |             |        |
| 20MHz(RB size 50 & RB offset 0)  |            |            |          |          |              |           |             |        |
| 1860.00                          | 18700      | QPSK       | 20       | H        | V            | 22.02     | 33.00       | Pass   |
|                                  |            |            |          |          | H            | 26.84     |             |        |
| 1860.00                          | 18700      | 16QAM      | 20       | H        | V            | 21.96     |             |        |
|                                  |            |            |          |          | H            | 26.69     |             |        |
| 20MHz(RB size 100 & RB offset 0) |            |            |          |          |              |           |             |        |
| 1860.00                          | 18700      | QPSK       | 20       | H        | V            | 20.80     | 33.00       | Pass   |
|                                  |            |            |          |          | H            | 25.50     |             |        |
| 1860.00                          | 18700      | 16QAM      | 20       | H        | V            | 21.48     |             |        |
|                                  |            |            |          |          | H            | 26.08     |             |        |



**Middle channel**

| Frequency (MHz)                  | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | EIRP(dBm) | Limit (dBm) | Result |
|----------------------------------|------------|------------|----------|----------|--------------|-----------|-------------|--------|
| 20MHz(RB size 1 & RB offset 0)   |            |            |          |          |              |           |             |        |
| 1880.00                          | 18900      | QPSK       | 20       | H        | V            | 22.01     | 33.00       | Pass   |
|                                  |            |            |          |          | H            | 27.45     |             |        |
| 1880.00                          | 18900      | 16QAM      | 20       | H        | V            | 21.98     |             |        |
|                                  |            |            |          |          | H            | 27.49     |             |        |
| 20MHz(RB size 50 & RB offset 0)  |            |            |          |          |              |           |             |        |
| 1880.00                          | 18900      | QPSK       | 20       | H        | V            | 22.36     | 33.00       | Pass   |
|                                  |            |            |          |          | H            | 26.41     |             |        |
| 1880.00                          | 18900      | 16QAM      | 20       | H        | V            | 22.04     |             |        |
|                                  |            |            |          |          | H            | 26.54     |             |        |
| 20MHz(RB size 100 & RB offset 0) |            |            |          |          |              |           |             |        |
| 1880.00                          | 18900      | QPSK       | 20       | H        | V            | 21.04     | 33.00       | Pass   |
|                                  |            |            |          |          | H            | 25.36     |             |        |
| 1880.00                          | 18900      | 16QAM      | 20       | H        | V            | 21.85     |             |        |
|                                  |            |            |          |          | H            | 26.52     |             |        |

**Highest channel**

| Frequency (MHz)                  | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | EIRP(dBm) | Limit (dBm) | Result |
|----------------------------------|------------|------------|----------|----------|--------------|-----------|-------------|--------|
| 20MHz(RB size 1 & RB offset 0)   |            |            |          |          |              |           |             |        |
| 1900.00                          | 19100      | QPSK       | 20       | H        | V            | 21.96     | 33.00       | Pass   |
|                                  |            |            |          |          | H            | 27.14     |             |        |
| 1900.00                          | 19100      | 16QAM      | 20       | H        | V            | 22.06     |             |        |
|                                  |            |            |          |          | H            | 27.46     |             |        |
| 20MHz(RB size 50 & RB offset 0)  |            |            |          |          |              |           |             |        |
| 1900.00                          | 19100      | QPSK       | 20       | H        | V            | 22.48     | 33.00       | Pass   |
|                                  |            |            |          |          | H            | 26.12     |             |        |
| 1900.00                          | 19100      | 16QAM      | 20       | H        | V            | 22.36     |             |        |
|                                  |            |            |          |          | H            | 26.19     |             |        |
| 20MHz(RB size 100 & RB offset 0) |            |            |          |          |              |           |             |        |
| 1900.00                          | 19100      | QPSK       | 20       | H        | V            | 21.44     | 33.00       | Pass   |
|                                  |            |            |          |          | H            | 25.91     |             |        |
| 1900.00                          | 19100      | 16QAM      | 20       | H        | V            | 22.04     |             |        |
|                                  |            |            |          |          | H            | 26.36     |             |        |

LTE band 4 part

Lowest channel

| Frequency (MHz)                 | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | EIRP(dBm) | Limit (dBm) | Result |
|---------------------------------|------------|------------|----------|----------|--------------|-----------|-------------|--------|
| 1.4MHz(RB size 1 & RB offset 0) |            |            |          |          |              |           |             |        |
| 1710.70                         | 19957      | QPSK       | 1.4      | H        | V            | 22.37     | 30.00       | Pass   |
|                                 |            |            |          |          | H            | 19.10     |             |        |
| 1710.70                         | 19957      | 16QAM      | 1.4      | H        | V            | 22.41     |             |        |
|                                 |            |            |          |          | H            | 19.17     |             |        |
| 1.4MHz(RB size 3 & RB offset 0) |            |            |          |          |              |           |             |        |
| 1710.70                         | 19957      | QPSK       | 1.4      | H        | V            | 22.45     | 30.00       | Pass   |
|                                 |            |            |          |          | H            | 19.22     |             |        |
| 1710.70                         | 19957      | 16QAM      | 1.4      | H        | V            | 22.44     |             |        |
|                                 |            |            |          |          | H            | 19.18     |             |        |
| 1.4MHz(RB size 6 & RB offset 0) |            |            |          |          |              |           |             |        |
| 1710.70                         | 19957      | QPSK       | 1.4      | H        | V            | 21.72     | 30.00       | Pass   |
|                                 |            |            |          |          | H            | 18.49     |             |        |
| 1710.70                         | 19957      | 16QAM      | 1.4      | H        | V            | 21.83     |             |        |
|                                 |            |            |          |          | H            | 18.79     |             |        |

Middle channel

| Frequency (MHz)                 | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | EIRP(dBm) | Limit (dBm) | Result |
|---------------------------------|------------|------------|----------|----------|--------------|-----------|-------------|--------|
| 1.4MHz(RB size 1 & RB offset 0) |            |            |          |          |              |           |             |        |
| 1732.50                         | 20175      | QPSK       | 1.4      | H        | V            | 22.89     | 30.00       | Pass   |
|                                 |            |            |          |          | H            | 19.63     |             |        |
| 1732.50                         | 20175      | 16QAM      | 1.4      | H        | V            | 22.78     |             |        |
|                                 |            |            |          |          | H            | 19.26     |             |        |
| 1.4MHz(RB size 3 & RB offset 0) |            |            |          |          |              |           |             |        |
| 1732.50                         | 20175      | QPSK       | 1.4      | H        | V            | 22.68     | 30.00       | Pass   |
|                                 |            |            |          |          | H            | 19.52     |             |        |
| 1732.50                         | 20175      | 16QAM      | 1.4      | H        | V            | 22.74     |             |        |
|                                 |            |            |          |          | H            | 19.45     |             |        |
| 1.4MHz(RB size 6 & RB offset 0) |            |            |          |          |              |           |             |        |
| 1732.50                         | 20175      | QPSK       | 1.4      | H        | V            | 21.14     | 30.00       | Pass   |
|                                 |            |            |          |          | H            | 18.96     |             |        |
| 1732.50                         | 20175      | 16QAM      | 1.4      | H        | V            | 21.93     |             |        |
|                                 |            |            |          |          | H            | 18.62     |             |        |

### Highest channel

| Frequency (MHz)                 | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | EIRP(dBm) | Limit (dBm) | Result |
|---------------------------------|------------|------------|----------|----------|--------------|-----------|-------------|--------|
| 1.4MHz(RB size 1 & RB offset 0) |            |            |          |          |              |           |             |        |
| 1754.30                         | 20393      | QPSK       | 1.4      | H        | V            | 22.84     | 30.00       | Pass   |
|                                 |            |            |          |          | H            | 19.45     |             |        |
| 1754.30                         | 20393      | 16QAM      | 1.4      | H        | V            | 22.15     |             |        |
|                                 |            |            |          |          | H            | 19.86     |             |        |
| 1.4MHz(RB size 3 & RB offset 0) |            |            |          |          |              |           |             |        |
| 1754.30                         | 20393      | QPSK       | 1.4      | H        | V            | 22.47     | 30.00       | Pass   |
|                                 |            |            |          |          | H            | 19.63     |             |        |
| 1754.30                         | 20393      | 16QAM      | 1.4      | H        | V            | 22.96     |             |        |
|                                 |            |            |          |          | H            | 19.94     |             |        |
| 1.4MHz(RB size 6 & RB offset 0) |            |            |          |          |              |           |             |        |
| 1754.30                         | 20393      | QPSK       | 1.4      | H        | V            | 21.98     | 30.00       | Pass   |
|                                 |            |            |          |          | H            | 19.06     |             |        |
| 1754.30                         | 20393      | 16QAM      | 1.4      | H        | V            | 22.06     |             |        |
|                                 |            |            |          |          | H            | 19.13     |             |        |

### Lowest channel

| Frequency (MHz)                  | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | EIRP(dBm) | Limit (dBm) | Result |
|----------------------------------|------------|------------|----------|----------|--------------|-----------|-------------|--------|
| 20MHz(RB size 1 & RB offset 0)   |            |            |          |          |              |           |             |        |
| 1720.00                          | 20050      | QPSK       | 20       | H        | V            | 22.41     | 30.00       | Pass   |
|                                  |            |            |          |          | H            | 19.27     |             |        |
| 1720.00                          | 20050      | 16QAM      | 20       | H        | V            | 23.19     |             |        |
|                                  |            |            |          |          | H            | 22.45     |             |        |
| 20MHz(RB size 50 & RB offset 0)  |            |            |          |          |              |           |             |        |
| 1720.00                          | 20050      | QPSK       | 20       | H        | V            | 23.36     | 30.00       | Pass   |
|                                  |            |            |          |          | H            | 22.75     |             |        |
| 1720.00                          | 20050      | 16QAM      | 20       | H        | V            | 23.36     |             |        |
|                                  |            |            |          |          | H            | 22.82     |             |        |
| 20MHz(RB size 100 & RB offset 0) |            |            |          |          |              |           |             |        |
| 1720.00                          | 20050      | QPSK       | 20       | H        | V            | 22.51     | 30.00       | Pass   |
|                                  |            |            |          |          | H            | 21.78     |             |        |
| 1720.00                          | 20050      | 16QAM      | 20       | H        | V            | 22.27     |             |        |
|                                  |            |            |          |          | H            | 21.97     |             |        |

### Middle channel

| Frequency (MHz)                  | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | EIRP(dBm) | Limit (dBm) | Result |
|----------------------------------|------------|------------|----------|----------|--------------|-----------|-------------|--------|
| 20MHz(RB size 1 & RB offset 0)   |            |            |          |          |              |           |             |        |
| 1732.50                          | 20175      | QPSK       | 20       | H        | V            | 22.96     | 30.00       | Pass   |
|                                  |            |            |          |          | H            | 20.14     |             |        |
| 1732.50                          | 20175      | 16QAM      | 20       | H        | V            | 23.48     |             |        |
|                                  |            |            |          |          | H            | 22.01     |             |        |
| 20MHz(RB size 50 & RB offset 0)  |            |            |          |          |              |           |             |        |
| 1732.50                          | 20175      | QPSK       | 20       | H        | V            | 23.48     | 30.00       | Pass   |
|                                  |            |            |          |          | H            | 22.41     |             |        |
| 1732.50                          | 20175      | 16QAM      | 20       | H        | V            | 23.04     |             |        |
|                                  |            |            |          |          | H            | 22.15     |             |        |
| 20MHz(RB size 100 & RB offset 0) |            |            |          |          |              |           |             |        |
| 1732.50                          | 20175      | QPSK       | 20       | H        | V            | 22.71     | 30.00       | Pass   |
|                                  |            |            |          |          | H            | 21.36     |             |        |
| 1732.50                          | 20175      | 16QAM      | 20       | H        | V            | 22.16     |             |        |
|                                  |            |            |          |          | H            | 21.44     |             |        |

### High channel

| Frequency (MHz)                  | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | EIRP(dBm) | Limit (dBm) | Result |
|----------------------------------|------------|------------|----------|----------|--------------|-----------|-------------|--------|
| 20MHz(RB size 1 & RB offset 0)   |            |            |          |          |              |           |             |        |
| 1745.00                          | 20300      | QPSK       | 20       | H        | V            | 23.11     | 30.00       | Pass   |
|                                  |            |            |          |          | H            | 20.59     |             |        |
| 1745.00                          | 20300      | 16QAM      | 20       | H        | V            | 23.03     |             |        |
|                                  |            |            |          |          | H            | 22.19     |             |        |
| 20MHz(RB size 50 & RB offset 0)  |            |            |          |          |              |           |             |        |
| 1745.00                          | 20300      | QPSK       | 20       | H        | V            | 23.07     | 30.00       | Pass   |
|                                  |            |            |          |          | H            | 22.63     |             |        |
| 1745.00                          | 20300      | 16QAM      | 20       | H        | V            | 23.48     |             |        |
|                                  |            |            |          |          | H            | 22.65     |             |        |
| 20MHz(RB size 100 & RB offset 0) |            |            |          |          |              |           |             |        |
| 1745.00                          | 20300      | QPSK       | 20       | H        | V            | 22.46     | 30.00       | Pass   |
|                                  |            |            |          |          | H            | 21.69     |             |        |
| 1745.00                          | 20300      | 16QAM      | 20       | H        | V            | 22.35     |             |        |
|                                  |            |            |          |          | H            | 21.74     |             |        |

LTE band 5 part

Lowest channel

| Frequency (MHz)                 | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | ERP(dBm) | Limit (dBm) | Result |
|---------------------------------|------------|------------|----------|----------|--------------|----------|-------------|--------|
| 1.4MHz(RB size 1 & RB offset 0) |            |            |          |          |              |          |             |        |
| 824.70                          | 20407      | QPSK       | 1.4      | H        | V            | 19.28    | 38.45       | Pass   |
|                                 |            |            |          |          | H            | 18.14    |             |        |
| 824.70                          | 20407      | 16QAM      | 1.4      | H        | V            | 19.20    |             |        |
|                                 |            |            |          |          | H            | 17.76    |             |        |
| 1.4MHz(RB size 3& RB offset 0)  |            |            |          |          |              |          |             |        |
| 824.70                          | 20407      | QPSK       | 1.4      | H        | V            | 19.61    | 38.45       | Pass   |
|                                 |            |            |          |          | H            | 17.98    |             |        |
| 824.70                          | 20407      | 16QAM      | 1.4      | H        | V            | 19.26    |             |        |
|                                 |            |            |          |          | H            | 17.75    |             |        |
| 1.4MHz(RB size 6& RB offset 0)  |            |            |          |          |              |          |             |        |
| 824.70                          | 20407      | QPSK       | 1.4      | H        | V            | 17.86    | 38.45       | Pass   |
|                                 |            |            |          |          | H            | 16.33    |             |        |
| 824.70                          | 20407      | 16QAM      | 1.4      | H        | V            | 18.14    |             |        |
|                                 |            |            |          |          | H            | 16.00    |             |        |

Middle channel

| Frequency (MHz)                 | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | ERP(dBm) | Limit (dBm) | Result |
|---------------------------------|------------|------------|----------|----------|--------------|----------|-------------|--------|
| 1.4MHz(RB size 1 & RB offset 0) |            |            |          |          |              |          |             |        |
| 836.50                          | 20525      | QPSK       | 1.4      | H        | V            | 19.36    | 38.45       | Pass   |
|                                 |            |            |          |          | H            | 18.56    |             |        |
| 836.50                          | 20525      | 16QAM      | 1.4      | H        | V            | 19.84    |             |        |
|                                 |            |            |          |          | H            | 17.96    |             |        |
| 1.4MHz(RB size 3& RB offset 0)  |            |            |          |          |              |          |             |        |
| 836.50                          | 20525      | QPSK       | 1.4      | H        | V            | 19.74    | 38.45       | Pass   |
|                                 |            |            |          |          | H            | 18.36    |             |        |
| 836.50                          | 20525      | 16QAM      | 1.4      | H        | V            | 19.85    |             |        |
|                                 |            |            |          |          | H            | 18.04    |             |        |
| 1.4MHz(RB size 6& RB offset 0)  |            |            |          |          |              |          |             |        |
| 836.50                          | 20525      | QPSK       | 1.4      | H        | V            | 18.06    | 38.45       | Pass   |
|                                 |            |            |          |          | H            | 17.12    |             |        |
| 836.50                          | 20525      | 16QAM      | 1.4      | H        | V            | 18.47    |             |        |
|                                 |            |            |          |          | H            | 16.98    |             |        |

### Highest channel

| Frequency (MHz)                 | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | ERP(dBm) | Limit (dBm) | Result |
|---------------------------------|------------|------------|----------|----------|--------------|----------|-------------|--------|
| 1.4MHz(RB size 1 & RB offset 0) |            |            |          |          |              |          |             |        |
| 848.30                          | 20643      | QPSK       | 1.4      | H        | V            | 19.89    | 38.45       | Pass   |
|                                 |            |            |          |          | H            | 18.54    |             |        |
| 848.30                          | 20643      | 16QAM      | 1.4      | H        | V            | 19.74    |             |        |
|                                 |            |            |          |          | H            | 18.09    |             |        |
| 1.4MHz(RB size 3& RB offset 0)  |            |            |          |          |              |          |             |        |
| 848.30                          | 20643      | QPSK       | 1.4      | H        | V            | 19.77    | 38.45       | Pass   |
|                                 |            |            |          |          | H            | 18.65    |             |        |
| 848.30                          | 20643      | 16QAM      | 1.4      | H        | V            | 19.74    |             |        |
|                                 |            |            |          |          | H            | 18.52    |             |        |
| 1.4MHz(RB size 6& RB offset 0)  |            |            |          |          |              |          |             |        |
| 848.30                          | 20643      | QPSK       | 1.4      | H        | V            | 18.56    | 38.45       | Pass   |
|                                 |            |            |          |          | H            | 17.91    |             |        |
| 848.30                          | 20643      | 16QAM      | 1.4      | H        | V            | 18.75    |             |        |
|                                 |            |            |          |          | H            | 17.59    |             |        |

### Lowest channel

| Frequency (MHz)                | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | ERP(dBm) | Limit (dBm) | Result |
|--------------------------------|------------|------------|----------|----------|--------------|----------|-------------|--------|
| 10MHz(RB size 1 & RB offset 0) |            |            |          |          |              |          |             |        |
| 829.00                         | 20450      | QPSK       | 10       | H        | V            | 19.45    | 38.45       | Pass   |
|                                |            |            |          |          | H            | 17.65    |             |        |
| 829.00                         | 20450      | 16QAM      | 10       | H        | V            | 20.12    |             |        |
|                                |            |            |          |          | H            | 17.92    |             |        |
| 10MHz(RB size 25& RB offset 0) |            |            |          |          |              |          |             |        |
| 829.00                         | 20450      | QPSK       | 10       | H        | V            | 19.24    | 38.45       | Pass   |
|                                |            |            |          |          | H            | 17.56    |             |        |
| 829.00                         | 20450      | 16QAM      | 10       | H        | V            | 19.86    |             |        |
|                                |            |            |          |          | H            | 17.62    |             |        |
| 10MHz(RB size 50& RB offset 0) |            |            |          |          |              |          |             |        |
| 829.00                         | 20450      | QPSK       | 10       | H        | V            | 17.81    | 38.45       | Pass   |
|                                |            |            |          |          | H            | 15.86    |             |        |
| 829.00                         | 20450      | 16QAM      | 10       | H        | V            | 18.51    |             |        |
|                                |            |            |          |          | H            | 16.41    |             |        |

### Middle channel

| Frequency (MHz)                 | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | ERP(dBm) | Limit (dBm) | Result |
|---------------------------------|------------|------------|----------|----------|--------------|----------|-------------|--------|
| 10MHz(RB size 1 & RB offset 0)  |            |            |          |          |              |          |             |        |
| 836.50                          | 20525      | QPSK       | 10       | H        | V            | 19.39    | 38.45       | Pass   |
|                                 |            |            |          |          | H            | 17.85    |             |        |
| 836.50                          | 20525      | 16QAM      | 10       | H        | V            | 19.98    |             |        |
|                                 |            |            |          |          | H            | 18.01    |             |        |
| 10MHz(RB size 25& RB offset 0)  |            |            |          |          |              |          |             |        |
| 836.50                          | 20525      | QPSK       | 10       | H        | V            | 19.86    | 38.45       | Pass   |
|                                 |            |            |          |          | H            | 17.89    |             |        |
| 836.50                          | 20525      | 16QAM      | 10       | H        | V            | 19.68    |             |        |
|                                 |            |            |          |          | H            | 18.04    |             |        |
| 10MHz(RB size 50 & RB offset 0) |            |            |          |          |              |          |             |        |
| 836.50                          | 20525      | QPSK       | 10       | H        | V            | 18.14    | 38.45       | Pass   |
|                                 |            |            |          |          | H            | 16.93    |             |        |
| 836.50                          | 20525      | 16QAM      | 10       | H        | V            | 18.96    |             |        |
|                                 |            |            |          |          | H            | 16.87    |             |        |

### High channel

| Frequency (MHz)                 | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | ERP(dBm) | Limit (dBm) | Result |
|---------------------------------|------------|------------|----------|----------|--------------|----------|-------------|--------|
| 10MHz(RB size 1 & RB offset 0)  |            |            |          |          |              |          |             |        |
| 844.00                          | 20600      | QPSK       | 10       | H        | V            | 19.78    | 38.45       | Pass   |
|                                 |            |            |          |          | H            | 17.98    |             |        |
| 844.00                          | 20600      | 16QAM      | 10       | H        | V            | 19.47    |             |        |
|                                 |            |            |          |          | H            | 18.13    |             |        |
| 10MHz(RB size 25& RB offset 0)  |            |            |          |          |              |          |             |        |
| 844.00                          | 20600      | QPSK       | 10       | H        | V            | 19.74    | 38.45       | Pass   |
|                                 |            |            |          |          | H            | 18.25    |             |        |
| 844.00                          | 20600      | 16QAM      | 10       | H        | V            | 19.87    |             |        |
|                                 |            |            |          |          | H            | 18.45    |             |        |
| 10MHz(RB size 50 & RB offset 0) |            |            |          |          |              |          |             |        |
| 844.00                          | 20600      | QPSK       | 10       | H        | V            | 18.96    | 38.45       | Pass   |
|                                 |            |            |          |          | H            | 17.05    |             |        |
| 844.00                          | 20600      | 16QAM      | 10       | H        | V            | 19.06    |             |        |
|                                 |            |            |          |          | H            | 17.15    |             |        |

LTE band 7 part

Lowest channel

| Frequency (MHz)               | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | EIRP(dBm) | Limit (dBm) | Result |
|-------------------------------|------------|------------|----------|----------|--------------|-----------|-------------|--------|
| 5MHz(RB size 1 & RB offset 0) |            |            |          |          |              |           |             |        |
| 2502.50                       | 20775      | QPSK       | 5        | H        | V            | 23.01     | 33.00       | Pass   |
|                               |            |            |          |          | H            | 21.02     |             |        |
| 2502.50                       | 20775      | 16QAM      | 5        | H        | V            | 22.80     |             |        |
|                               |            |            |          |          | H            | 21.19     |             |        |
| 5MHz(RB size 12& RB offset 0) |            |            |          |          |              |           |             |        |
| 2502.50                       | 20775      | QPSK       | 5        | H        | V            | 22.12     | 33.00       | Pass   |
|                               |            |            |          |          | H            | 20.41     |             |        |
| 2502.50                       | 20775      | 16QAM      | 5        | H        | V            | 22.05     |             |        |
|                               |            |            |          |          | H            | 20.38     |             |        |
| 5MHz(RB size 25& RB offset 0) |            |            |          |          |              |           |             |        |
| 2502.50                       | 20775      | QPSK       | 5        | H        | V            | 20.87     | 33.00       | Pass   |
|                               |            |            |          |          | H            | 19.17     |             |        |
| 2502.50                       | 20775      | 16QAM      | 5        | H        | V            | 21.03     |             |        |
|                               |            |            |          |          | H            | 19.31     |             |        |

Middle channel

| Frequency (MHz)               | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | EIRP(dBm) | Limit (dBm) | Result |
|-------------------------------|------------|------------|----------|----------|--------------|-----------|-------------|--------|
| 5MHz(RB size 1 & RB offset 0) |            |            |          |          |              |           |             |        |
| 2535.00                       | 21100      | QPSK       | 5        | H        | V            | 23.58     | 33.00       | Pass   |
|                               |            |            |          |          | H            | 21.96     |             |        |
| 2535.00                       | 21100      | 16QAM      | 5        | H        | V            | 23.05     |             |        |
|                               |            |            |          |          | H            | 21.58     |             |        |
| 5MHz(RB size 12& RB offset 0) |            |            |          |          |              |           |             |        |
| 2535.00                       | 21100      | QPSK       | 5        | H        | V            | 22.97     | 33.00       | Pass   |
|                               |            |            |          |          | H            | 21.01     |             |        |
| 2535.00                       | 21100      | 16QAM      | 5        | H        | V            | 22.69     |             |        |
|                               |            |            |          |          | H            | 21.11     |             |        |
| 5MHz(RB size 25& RB offset 0) |            |            |          |          |              |           |             |        |
| 2535.00                       | 21100      | QPSK       | 5        | H        | V            | 21.36     | 33.00       | Pass   |
|                               |            |            |          |          | H            | 19.86     |             |        |
| 2535.00                       | 21100      | 16QAM      | 5        | H        | V            | 21.87     |             |        |
|                               |            |            |          |          | H            | 19.99     |             |        |



### Highest channel

| Frequency (MHz)               | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | EIRP(dBm) | Limit (dBm) | Result |
|-------------------------------|------------|------------|----------|----------|--------------|-----------|-------------|--------|
| 5MHz(RB size 1 & RB offset 0) |            |            |          |          |              |           |             |        |
| 2567.50                       | 21425      | QPSK       | 5        | H        | V            | 23.14     | 33.00       | Pass   |
|                               |            |            |          |          | H            | 22.03     |             |        |
| 2567.50                       | 21425      | 16QAM      | 5        | H        | V            | 23.69     |             |        |
|                               |            |            |          |          | H            | 21.85     |             |        |
| 5MHz(RB size 12& RB offset 0) |            |            |          |          |              |           |             |        |
| 2567.50                       | 21425      | QPSK       | 5        | H        | V            | 23.06     | 33.00       | Pass   |
|                               |            |            |          |          | H            | 21.95     |             |        |
| 2567.50                       | 21425      | 16QAM      | 5        | H        | V            | 22.98     |             |        |
|                               |            |            |          |          | H            | 21.86     |             |        |
| 5MHz(RB size 25& RB offset 0) |            |            |          |          |              |           |             |        |
| 2567.50                       | 21425      | QPSK       | 5        | H        | V            | 21.94     | 33.00       | Pass   |
|                               |            |            |          |          | H            | 20.01     |             |        |
| 2567.50                       | 21425      | 16QAM      | 5        | H        | V            | 22.05     |             |        |
|                               |            |            |          |          | H            | 20.11     |             |        |

### Lowest channel

| Frequency (MHz)                  | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | EIRP(dBm) | Limit (dBm) | Result |
|----------------------------------|------------|------------|----------|----------|--------------|-----------|-------------|--------|
| 20MHz(RB size 1 & RB offset 0)   |            |            |          |          |              |           |             |        |
| 2510.00                          | 20850      | QPSK       | 20       | H        | V            | 25.01     | 33.00       | Pass   |
|                                  |            |            |          |          | H            | 21.14     |             |        |
| 2510.00                          | 20850      | 16QAM      | 20       | H        | V            | 25.05     |             |        |
|                                  |            |            |          |          | H            | 21.23     |             |        |
| 20MHz(RB size 50 & RB offset 0)  |            |            |          |          |              |           |             |        |
| 2510.00                          | 20850      | QPSK       | 20       | H        | V            | 23.94     | 33.00       | Pass   |
|                                  |            |            |          |          | H            | 20.24     |             |        |
| 2510.00                          | 20850      | 16QAM      | 20       | H        | V            | 24.24     |             |        |
|                                  |            |            |          |          | H            | 20.58     |             |        |
| 20MHz(RB size 100 & RB offset 0) |            |            |          |          |              |           |             |        |
| 2510.00                          | 20850      | QPSK       | 20       | H        | V            | 22.95     | 33.00       | Pass   |
|                                  |            |            |          |          | H            | 19.19     |             |        |
| 2510.00                          | 20850      | 16QAM      | 20       | H        | V            | 22.30     |             |        |
|                                  |            |            |          |          | H            | 19.96     |             |        |

### Middle channel

| Frequency (MHz)                  | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | EIRP(dBm) | Limit (dBm) | Result |
|----------------------------------|------------|------------|----------|----------|--------------|-----------|-------------|--------|
| 20MHz(RB size 1 & RB offset 0)   |            |            |          |          |              |           |             |        |
| 2535.00                          | 21100      | QPSK       | 20       | H        | V            | 24.99     | 33.00       | Pass   |
|                                  |            |            |          |          | H            | 21.56     |             |        |
| 2535.00                          | 21100      | 16QAM      | 20       | H        | V            | 24.97     |             |        |
|                                  |            |            |          |          | H            | 21.86     |             |        |
| 20MHz(RB size 50 & RB offset 0)  |            |            |          |          |              |           |             |        |
| 2535.00                          | 21100      | QPSK       | 20       | H        | V            | 23.14     | 33.00       | Pass   |
|                                  |            |            |          |          | H            | 20.78     |             |        |
| 2535.00                          | 21100      | 16QAM      | 20       | H        | V            | 24.01     |             |        |
|                                  |            |            |          |          | H            | 20.96     |             |        |
| 20MHz(RB size 100 & RB offset 0) |            |            |          |          |              |           |             |        |
| 2535.00                          | 21100      | QPSK       | 20       | H        | V            | 23.01     | 33.00       | Pass   |
|                                  |            |            |          |          | H            | 19.86     |             |        |
| 2535.00                          | 21100      | 16QAM      | 20       | H        | V            | 22.89     |             |        |
|                                  |            |            |          |          | H            | 20.06     |             |        |

### High channel

| Frequency (MHz)                  | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | EIRP(dBm) | Limit (dBm) | Result |
|----------------------------------|------------|------------|----------|----------|--------------|-----------|-------------|--------|
| 20MHz(RB size 1 & RB offset 0)   |            |            |          |          |              |           |             |        |
| 2560.00                          | 21350      | QPSK       | 20       | H        | V            | 24.96     | 33.00       | Pass   |
|                                  |            |            |          |          | H            | 21.45     |             |        |
| 2560.00                          | 21350      | 16QAM      | 20       | H        | V            | 24.57     |             |        |
|                                  |            |            |          |          | H            | 22.03     |             |        |
| 20MHz(RB size 50 & RB offset 0)  |            |            |          |          |              |           |             |        |
| 2560.00                          | 21350      | QPSK       | 20       | H        | V            | 23.69     | 33.00       | Pass   |
|                                  |            |            |          |          | H            | 21.04     |             |        |
| 2560.00                          | 21350      | 16QAM      | 20       | H        | V            | 23.99     |             |        |
|                                  |            |            |          |          | H            | 21.13     |             |        |
| 20MHz(RB size 100 & RB offset 0) |            |            |          |          |              |           |             |        |
| 2560.00                          | 21350      | QPSK       | 20       | H        | V            | 23.65     | 33.00       | Pass   |
|                                  |            |            |          |          | H            | 19.88     |             |        |
| 2560.00                          | 21350      | 16QAM      | 20       | H        | V            | 23.01     |             |        |
|                                  |            |            |          |          | H            | 20.56     |             |        |

**LTE band 17 part  
Lowest channel**

| Frequency (MHz)                | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | ERP(dBm) | Limit (dBm) | Result |
|--------------------------------|------------|------------|----------|----------|--------------|----------|-------------|--------|
| 5MHz(RB size 1 & RB offset 0)  |            |            |          |          |              |          |             |        |
| 706.50                         | 23755      | QPSK       | 5        | H        | V            | 13.84    | 34.77       | Pass   |
|                                |            |            |          |          | H            | 13.05    |             |        |
| 706.50                         | 23755      | 16QAM      | 5        | H        | V            | 13.17    |             |        |
|                                |            |            |          |          | H            | 12.76    |             |        |
| 5MHz(RB size 12 & RB offset 0) |            |            |          |          |              |          |             |        |
| 706.50                         | 23755      | QPSK       | 5        | H        | V            | 12.67    | 34.77       | Pass   |
|                                |            |            |          |          | H            | 12.31    |             |        |
| 706.50                         | 23755      | 16QAM      | 5        | H        | V            | 12.53    |             |        |
|                                |            |            |          |          | H            | 12.19    |             |        |
| 5MHz(RB size 25 & RB offset 0) |            |            |          |          |              |          |             |        |
| 706.50                         | 23755      | QPSK       | 5        | H        | V            | 13.19    | 34.77       | Pass   |
|                                |            |            |          |          | H            | 12.83    |             |        |
| 706.50                         | 23755      | 16QAM      | 5        | H        | V            | 13.05    |             |        |
|                                |            |            |          |          | H            | 12.71    |             |        |

**Middle channel**

| Frequency (MHz)                | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | ERP(dBm) | Limit (dBm) | Result |
|--------------------------------|------------|------------|----------|----------|--------------|----------|-------------|--------|
| 5MHz(RB size 1 & RB offset 0)  |            |            |          |          |              |          |             |        |
| 710.00                         | 23790      | QPSK       | 5        | H        | V            | 13.56    | 34.77       | Pass   |
|                                |            |            |          |          | H            | 13.78    |             |        |
| 710.00                         | 23790      | 16QAM      | 5        | H        | V            | 13.85    |             |        |
|                                |            |            |          |          | H            | 13.14    |             |        |
| 5MHz(RB size 12 & RB offset 0) |            |            |          |          |              |          |             |        |
| 710.00                         | 23790      | QPSK       | 5        | H        | V            | 12.98    | 34.77       | Pass   |
|                                |            |            |          |          | H            | 12.54    |             |        |
| 710.00                         | 23790      | 16QAM      | 5        | H        | V            | 12.95    |             |        |
|                                |            |            |          |          | H            | 12.38    |             |        |
| 5MHz(RB size 25 & RB offset 0) |            |            |          |          |              |          |             |        |
| 710.00                         | 23790      | QPSK       | 5        | H        | V            | 13.25    | 34.77       | Pass   |
|                                |            |            |          |          | H            | 13.65    |             |        |
| 710.00                         | 23790      | 16QAM      | 5        | H        | V            | 13.47    |             |        |
|                                |            |            |          |          | H            | 12.98    |             |        |

### Highest channel

| Frequency (MHz)                | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | ERP(dBm) | Limit (dBm) | Result |
|--------------------------------|------------|------------|----------|----------|--------------|----------|-------------|--------|
| 5MHz(RB size 1 & RB offset 0)  |            |            |          |          |              |          |             |        |
| 713.50                         | 23825      | QPSK       | 5        | H        | V            | 13.85    | 34.77       | Pass   |
|                                |            |            |          |          | H            | 13.69    |             |        |
| 713.50                         | 23825      | 16QAM      | 5        | H        | V            | 13.78    |             |        |
|                                |            |            |          |          | H            | 13.25    |             |        |
| 5MHz(RB size 12 & RB offset 0) |            |            |          |          |              |          |             |        |
| 713.50                         | 23825      | QPSK       | 5        | H        | V            | 13.05    | 34.77       | Pass   |
|                                |            |            |          |          | H            | 13.47    |             |        |
| 713.50                         | 23825      | 16QAM      | 5        | H        | V            | 13.65    |             |        |
|                                |            |            |          |          | H            | 12.99    |             |        |
| 5MHz(RB size 25 & RB offset 0) |            |            |          |          |              |          |             |        |
| 713.50                         | 23825      | QPSK       | 5        | H        | V            | 13.85    | 34.77       | Pass   |
|                                |            |            |          |          | H            | 13.47    |             |        |
| 713.50                         | 23825      | 16QAM      | 5        | H        | V            | 13.69    |             |        |
|                                |            |            |          |          | H            | 13.05    |             |        |

### Lowest channel

| Frequency (MHz)                | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | ERP(dBm) | Limit (dBm) | Result |
|--------------------------------|------------|------------|----------|----------|--------------|----------|-------------|--------|
| 10MHz(RB size 1 & RB offset 0) |            |            |          |          |              |          |             |        |
| 709.00                         | 23780      | QPSK       | 10       | H        | V            | 13.47    | 34.77       | Pass   |
|                                |            |            |          |          | H            | 13.06    |             |        |
| 709.00                         | 23780      | 16QAM      | 10       | H        | V            | 13.62    |             |        |
|                                |            |            |          |          | H            | 13.15    |             |        |
| 10MHz(RB size 25& RB offset 0) |            |            |          |          |              |          |             |        |
| 709.00                         | 23780      | QPSK       | 10       | H        | V            | 12.96    | 34.77       | Pass   |
|                                |            |            |          |          | H            | 12.56    |             |        |
| 709.00                         | 23780      | 16QAM      | 10       | H        | V            | 12.71    |             |        |
|                                |            |            |          |          | H            | 12.46    |             |        |
| 10MHz(RB size 50& RB offset 0) |            |            |          |          |              |          |             |        |
| 709.00                         | 23780      | QPSK       | 10       | H        | V            | 12.97    | 34.77       | Pass   |
|                                |            |            |          |          | H            | 12.65    |             |        |
| 709.00                         | 23780      | 16QAM      | 10       | H        | V            | 12.91    |             |        |
|                                |            |            |          |          | H            | 12.65    |             |        |

### Middle channel

| Frequency (MHz)                | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | ERP(dBm) | Limit (dBm) | Result |
|--------------------------------|------------|------------|----------|----------|--------------|----------|-------------|--------|
| 10MHz(RB size 1 & RB offset 0) |            |            |          |          |              |          |             |        |
| 710.00                         | 23790      | QPSK       | 10       | H        | V            | 13.85    | 34.77       | Pass   |
|                                |            |            |          |          | H            | 13.66    |             |        |
| 710.00                         | 23790      | 16QAM      | 10       | H        | V            | 13.47    |             |        |
|                                |            |            |          |          | H            | 13.22    |             |        |
| 10MHz(RB size 25& RB offset 0) |            |            |          |          |              |          |             |        |
| 710.00                         | 23790      | QPSK       | 10       | H        | V            | 13.14    | 34.77       | Pass   |
|                                |            |            |          |          | H            | 12.86    |             |        |
| 710.00                         | 23790      | 16QAM      | 10       | H        | V            | 12.98    |             |        |
|                                |            |            |          |          | H            | 12.67    |             |        |
| 10MHz(RB size 50& RB offset 0) |            |            |          |          |              |          |             |        |
| 710.00                         | 23790      | QPSK       | 10       | H        | V            | 13.56    | 34.77       | Pass   |
|                                |            |            |          |          | H            | 12.86    |             |        |
| 710.00                         | 23790      | 16QAM      | 10       | H        | V            | 13.05    |             |        |
|                                |            |            |          |          | H            | 12.98    |             |        |

### Highest channel

| Frequency (MHz)                | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | ERP(dBm) | Limit (dBm) | Result |
|--------------------------------|------------|------------|----------|----------|--------------|----------|-------------|--------|
| 10MHz(RB size 1 & RB offset 0) |            |            |          |          |              |          |             |        |
| 711.00                         | 23800      | QPSK       | 10       | H        | V            | 13.45    | 34.77       | Pass   |
|                                |            |            |          |          | H            | 13.42    |             |        |
| 711.00                         | 23800      | 16QAM      | 10       | H        | V            | 13.95    |             |        |
|                                |            |            |          |          | H            | 13.74    |             |        |
| 10MHz(RB size 25& RB offset 0) |            |            |          |          |              |          |             |        |
| 711.00                         | 23800      | QPSK       | 10       | H        | V            | 13.79    | 34.77       | Pass   |
|                                |            |            |          |          | H            | 13.65    |             |        |
| 711.00                         | 23800      | 16QAM      | 10       | H        | V            | 13.44    |             |        |
|                                |            |            |          |          | H            | 12.88    |             |        |
| 10MHz(RB size 50& RB offset 0) |            |            |          |          |              |          |             |        |
| 711.00                         | 23800      | QPSK       | 10       | H        | V            | 13.87    | 34.77       | Pass   |
|                                |            |            |          |          | H            | 13.65    |             |        |
| 711.00                         | 23800      | 16QAM      | 10       | H        | V            | 13.54    |             |        |
|                                |            |            |          |          | H            | 13.25    |             |        |

**LTE band 41 part  
Lowest channel**

| Frequency (MHz)                | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | ERP(dBm) | Limit (dBm) | Result |
|--------------------------------|------------|------------|----------|----------|--------------|----------|-------------|--------|
| 5MHz(RB size 1 & RB offset 0)  |            |            |          |          |              |          |             |        |
| 2498.50                        | 39675      | QPSK       | 5        | H        | V            | 27.77    | 33.00       | Pass   |
|                                |            |            |          |          | H            | 28.30    |             |        |
| 2498.50                        | 39675      | 16QAM      | 5        | H        | V            | 27.59    |             |        |
|                                |            |            |          |          | H            | 28.37    |             |        |
| 5MHz(RB size 12 & RB offset 0) |            |            |          |          |              |          |             |        |
| 2498.50                        | 39675      | QPSK       | 5        | H        | V            | 27.94    | 33.00       | Pass   |
|                                |            |            |          |          | H            | 28.81    |             |        |
| 2498.50                        | 39675      | 16QAM      | 5        | H        | V            | 27.97    |             |        |
|                                |            |            |          |          | H            | 28.82    |             |        |
| 5MHz(RB size 25 & RB offset 0) |            |            |          |          |              |          |             |        |
| 2498.50                        | 39675      | QPSK       | 5        | H        | V            | 28.13    | 33.00       | Pass   |
|                                |            |            |          |          | H            | 29.14    |             |        |
| 2498.50                        | 39675      | 16QAM      | 5        | H        | V            | 28.25    |             |        |
|                                |            |            |          |          | H            | 29.20    |             |        |

**Middle channel**

| Frequency (MHz)                | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | ERP(dBm) | Limit (dBm) | Result |
|--------------------------------|------------|------------|----------|----------|--------------|----------|-------------|--------|
| 5MHz(RB size 1 & RB offset 0)  |            |            |          |          |              |          |             |        |
| 2593.00                        | 40620      | QPSK       | 5        | H        | V            | 28.15    | 33.00       | Pass   |
|                                |            |            |          |          | H            | 29.41    |             |        |
| 2593.00                        | 40620      | 16QAM      | 5        | H        | V            | 28.04    |             |        |
|                                |            |            |          |          | H            | 29.33    |             |        |
| 5MHz(RB size 12 & RB offset 0) |            |            |          |          |              |          |             |        |
| 2593.00                        | 40620      | QPSK       | 5        | H        | V            | 28.04    | 33.00       | Pass   |
|                                |            |            |          |          | H            | 29.06    |             |        |
| 2593.00                        | 40620      | 16QAM      | 5        | H        | V            | 28.11    |             |        |
|                                |            |            |          |          | H            | 29.32    |             |        |
| 5MHz(RB size 25 & RB offset 0) |            |            |          |          |              |          |             |        |
| 2593.00                        | 40620      | QPSK       | 5        | H        | V            | 29.10    | 33.00       | Pass   |
|                                |            |            |          |          | H            | 29.63    |             |        |
| 2593.00                        | 40620      | 16QAM      | 5        | H        | V            | 28.99    |             |        |
|                                |            |            |          |          | H            | 29.65    |             |        |

### Highest channel

| Frequency (MHz)                | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | ERP(dBm) | Limit (dBm) | Result |
|--------------------------------|------------|------------|----------|----------|--------------|----------|-------------|--------|
| 5MHz(RB size 1 & RB offset 0)  |            |            |          |          |              |          |             |        |
| 2687.50                        | 41565      | QPSK       | 5        | H        | V            | 28.14    | 33.00       | Pass   |
|                                |            |            |          |          | H            | 29.63    |             |        |
| 2687.50                        | 41565      | 16QAM      | 5        | H        | V            | 28.56    |             |        |
|                                |            |            |          |          | H            | 29.34    |             |        |
| 5MHz(RB size 12 & RB offset 0) |            |            |          |          |              |          |             |        |
| 2687.50                        | 41565      | QPSK       | 5        | H        | V            | 28.54    | 33.00       | Pass   |
|                                |            |            |          |          | H            | 29.13    |             |        |
| 2687.50                        | 41565      | 16QAM      | 5        | H        | V            | 28.56    |             |        |
|                                |            |            |          |          | H            | 29.47    |             |        |
| 5MHz(RB size 25 & RB offset 0) |            |            |          |          |              |          |             |        |
| 2687.50                        | 41565      | QPSK       | 5        | H        | V            | 29.36    | 33.00       | Pass   |
|                                |            |            |          |          | H            | 29.48    |             |        |
| 2687.50                        | 41565      | 16QAM      | 5        | H        | V            | 28.96    |             |        |
|                                |            |            |          |          | H            | 29.47    |             |        |

### Lowest channel

| Frequency (MHz)                | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | ERP(dBm) | Limit (dBm) | Result |
|--------------------------------|------------|------------|----------|----------|--------------|----------|-------------|--------|
| 20MHz(RB size 1 & RB offset 0) |            |            |          |          |              |          |             |        |
| 2506.00                        | 39750      | QPSK       | 20       | H        | V            | 27.93    | 33.00       | Pass   |
|                                |            |            |          |          | H            | 28.68    |             |        |
| 2506.00                        | 39750      | 16QAM      | 20       | H        | V            | 27.79    |             |        |
|                                |            |            |          |          | H            | 28.57    |             |        |
| 20MHz(RB size 25& RB offset 0) |            |            |          |          |              |          |             |        |
| 2506.00                        | 39750      | QPSK       | 20       | H        | V            | 27.29    | 33.00       | Pass   |
|                                |            |            |          |          | H            | 28.68    |             |        |
| 2506.00                        | 39750      | 16QAM      | 20       | H        | V            | 27.63    |             |        |
|                                |            |            |          |          | H            | 29.02    |             |        |
| 20MHz(RB size 50& RB offset 0) |            |            |          |          |              |          |             |        |
| 2506.00                        | 39750      | QPSK       | 20       | H        | V            | 26.20    | 33.00       | Pass   |
|                                |            |            |          |          | H            | 27.45    |             |        |
| 2506.00                        | 39750      | 16QAM      | 20       | H        | V            | 26.66    |             |        |
|                                |            |            |          |          | H            | 27.96    |             |        |

**Middle channel**

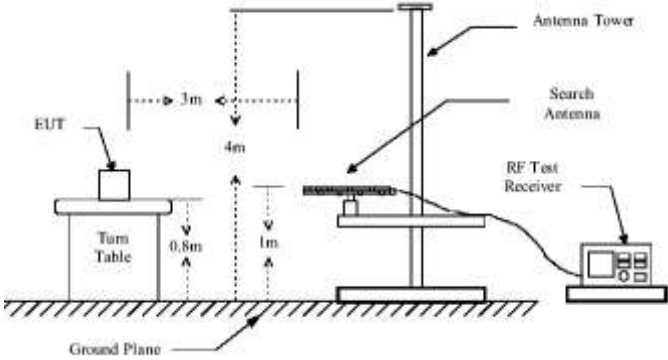
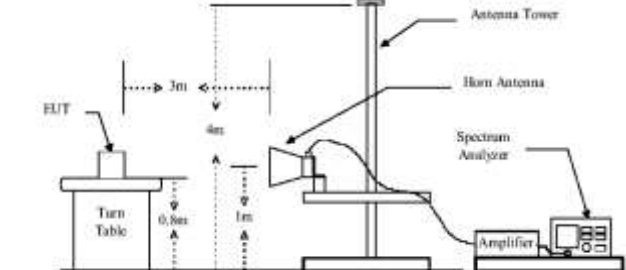
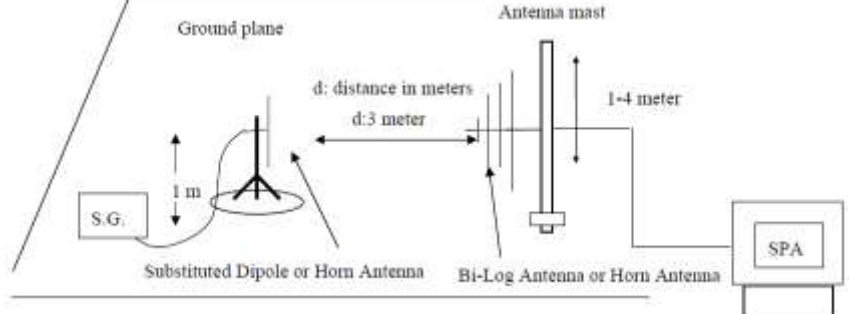
| Frequency (MHz)                | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | ERP(dBm) | Limit (dBm) | Result |
|--------------------------------|------------|------------|----------|----------|--------------|----------|-------------|--------|
| 20MHz(RB size 1 & RB offset 0) |            |            |          |          |              |          |             |        |
| 2593.00                        | 40620      | QPSK       | 20       | H        | V            | 28.06    | 33.00       | Pass   |
|                                |            |            |          |          | H            | 28.99    |             |        |
| 2593.00                        | 40620      | 16QAM      | 20       | H        | V            | 28.14    |             |        |
|                                |            |            |          |          | H            | 29.31    |             |        |
| 20MHz(RB size 25& RB offset 0) |            |            |          |          |              |          |             |        |
| 2593.00                        | 40620      | QPSK       | 20       | H        | V            | 28.04    | 33.00       | Pass   |
|                                |            |            |          |          | H            | 29.15    |             |        |
| 2593.00                        | 40620      | 16QAM      | 20       | H        | V            | 28.03    |             |        |
|                                |            |            |          |          | H            | 28.56    |             |        |
| 20MHz(RB size 50& RB offset 0) |            |            |          |          |              |          |             |        |
| 2593.00                        | 40620      | QPSK       | 20       | H        | V            | 27.14    | 33.00       | Pass   |
|                                |            |            |          |          | H            | 28.45    |             |        |
| 2593.00                        | 40620      | 16QAM      | 20       | H        | V            | 27.36    |             |        |
|                                |            |            |          |          | H            | 28.65    |             |        |

**Highest channel**

| Frequency (MHz)                | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | ERP(dBm) | Limit (dBm) | Result |
|--------------------------------|------------|------------|----------|----------|--------------|----------|-------------|--------|
| 20MHz(RB size 1 & RB offset 0) |            |            |          |          |              |          |             |        |
| 2680.00                        | 41490      | QPSK       | 20       | H        | V            | 28.11    | 33.00       | Pass   |
|                                |            |            |          |          | H            | 29.03    |             |        |
| 2680.00                        | 41490      | 16QAM      | 20       | H        | V            | 28.47    |             |        |
|                                |            |            |          |          | H            | 29.14    |             |        |
| 20MHz(RB size 25& RB offset 0) |            |            |          |          |              |          |             |        |
| 2680.00                        | 41490      | QPSK       | 20       | H        | V            | 28.88    | 33.00       | Pass   |
|                                |            |            |          |          | H            | 29.41    |             |        |
| 2680.00                        | 41490      | 16QAM      | 20       | H        | V            | 28.76    |             |        |
|                                |            |            |          |          | H            | 29.58    |             |        |
| 20MHz(RB size 50& RB offset 0) |            |            |          |          |              |          |             |        |
| 2680.00                        | 41490      | QPSK       | 20       | H        | V            | 27.77    | 33.00       | Pass   |
|                                |            |            |          |          | H            | 28.46    |             |        |
| 2680.00                        | 41490      | 16QAM      | 20       | H        | V            | 27.39    |             |        |
|                                |            |            |          |          | H            | 28.68    |             |        |



## 6.11 Field strength of spurious radiation measurement

|                   |   |
|-------------------|---|
| Test Requirement: | FCC Part 22.917(a), Part 24.238 (a),Part 27.53(g), Part 27.53(m), Part 27.53(h)   |
| Test Method:      | FCC part2.1053  |
| Limit:            | LTE Band 2, LTE Band 4, LTE Band 5, LTE Band 12 and LTE Band 17: -13dBm,<br>LTE Band 7, LTE Band 41: -25dBm   |
| Test setup:       | <p>Below 1GHz</p>  <p>Above 1GHz</p>  <p>Substituted method:</p>    |
| Test Procedure:   | <ol style="list-style-type: none"> <li>1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.</li> <li>2. 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.</li> <li>3. The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels).</li> </ol> |

|                   |   |
|-------------------|---|
|                   | <p>Once spurious emission was identified, the power of the emission was determined using the substitution method.</p> <p>4. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.</p> $\text{ERP / EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain(dB/dBi)} - \text{Cable Loss (dB)}$ |
| Test Instruments: | Refer to section 5.8 for details  |
| Test mode:        | Refer to section 5.3 for details.   |
| Test results:     | Passed  |

**Measurement Data (worst case):**

**Below 1GHz:**

The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.

**Above 1GHz**

For above 1 GHz, all test modes were performed, and just the worst case shown in the report.

LTE band 2 part:

1.4MHz(RB size 1 & RB offset 0) for QPSK

| Frequency (MHz) | Spurious Emission |             | Limit (dBm) | Result |
|-----------------|-------------------|-------------|-------------|--------|
|                 | Polarization      | Level (dBm) |             |        |
| Lowest          |                   |             |             |        |
| 3701.40         | Vertical          | -43.55      | -13.00      | Pass   |
| 5552.10         | V                 | -23.10      |             |        |
| 7402.00         | V                 | -33.31      |             |        |
| 3701.40         | Horizontal        | -41.18      |             |        |
| 5552.10         | H                 | -18.54      |             |        |
| 7402.00         | H                 | -30.14      |             |        |
| Middle          |                   |             |             |        |
| 3760.00         | Vertical          | -40.39      | -13.00      | Pass   |
| 5640.00         | V                 | -23.83      |             |        |
| 7520.00         | V                 | -36.31      |             |        |
| 3760.00         | Horizontal        | -40.74      |             |        |
| 5640.00         | H                 | -21.76      |             |        |
| 7520.00         | H                 | -33.03      |             |        |
| Highest         |                   |             |             |        |
| 3816.60         | Vertical          | -42.99      | -13.00      | Pass   |
| 5724.90         | V                 | -33.86      |             |        |
| 7633.20         | V                 | -31.88      |             |        |
| 3816.60         | Horizontal        | -45.60      |             |        |
| 5724.90         | H                 | -35.68      |             |        |
| 7633.20         | H                 | -32.48      |             |        |

| 3MHz(RB size 1 & RB offset 0) for QPSK |                   |             |             |        |
|--|-------------------|-------------|-------------|--------|
| Frequency (MHz)                        | Spurious Emission |             | Limit (dBm) | Result |
|  | Polarization      | Level (dBm) |             |        |
| Lowest                                 |                   |             |             |        |
| 3703.00                                | Vertical          | -43.62      | -13.00      | Pass   |
| 5554.50                                | V                 | -25.48      |             |        |
| 7406.00                                | V                 | -30.02      |             |        |
| 3703.00                                | Horizontal        | -38.56      |             |        |
| 5554.50                                | H                 | -19.54      |             |        |
| 7406.00                                | H                 | -29.65      |             |        |
| Middle                                 |                   |             |             |        |
| 3760.00                                | Vertical          | -42.36      | -13.00      | Pass   |
| 5640.00                                | V                 | -26.38      |             |        |
| 7520.00                                | V                 | -36.69      |             |        |
| 3760.00                                | Horizontal        | -41.58      |             |        |
| 5640.00                                | H                 | -24.59      |             |        |
| 7520.00                                | H                 | -39.33      |             |        |
| Highest                                |                   |             |             |        |
| 3817.00                                | Vertical          | -44.14      | -13.00      | Pass   |
| 5725.50                                | V                 | -26.38      |             |        |
| 7634.00                                | V                 | -30.05      |             |        |
| 3817.00                                | Horizontal        | -44.36      |             |        |
| 5725.50                                | H                 | -26.35      |             |        |
| 7634.00                                | H                 | -33.47      |             |        |

| 5MHz(RB size 1 & RB offset 0) for QPSK |                   |             |             |        |
|--|-------------------|-------------|-------------|--------|
| Frequency (MHz)                        | Spurious Emission |             | Limit (dBm) | Result |
|  | Polarization      | Level (dBm) |             |        |
| Lowest                                 |                   |             |             |        |
| 3705.00                                | Vertical          | -44.25      | -13.00      | Pass   |
| 5557.50                                | V                 | -22.63      |             |        |
| 7410.00                                | V                 | -32.14      |             |        |
| 3705.00                                | Horizontal        | -40.12      |             |        |
| 5557.50                                | H                 | -19.26      |             |        |
| 7410.00                                | H                 | -29.54      |             |        |
| Middle                                 |                   |             |             |        |
| 3760.00                                | Vertical          | -39.65      | -13.00      | Pass   |
| 5640.00                                | V                 | -24.17      |             |        |
| 7520.00                                | V                 | -35.24      |             |        |
| 3760.00                                | Horizontal        | -39.47      |             |        |
| 5640.00                                | H                 | -22.15      |             |        |
| 7520.00                                | H                 | -32.45      |             |        |
| Highest                                |                   |             |             |        |
| 3815.00                                | Vertical          | -41.78      | -13.00      | Pass   |
| 5722.50                                | V                 | -32.58      |             |        |
| 7630.00                                | V                 | -32.47      |             |        |
| 3815.00                                | Horizontal        | -44.85      |             |        |
| 5722.50                                | H                 | -36.78      |             |        |
| 7630.00                                | H                 | -31.47      |             |        |

| 10MHz(RB size 1 & RB offset 0) for QPSK |                   |             |             |        |
|---|-------------------|-------------|-------------|--------|
| Frequency (MHz)                         | Spurious Emission |             | Limit (dBm) | Result |
|   | Polarization      | Level (dBm) |             |        |
| Lowest                                  |                   |             |             |        |
| 3710.00                                 | Vertical          | -45.25      | -13.00      | Pass   |
| 5565.00                                 | V                 | -25.36      |             |        |
| 7420.00                                 | V                 | -32.41      |             |        |
| 3710.00                                 | Horizontal        | -38.47      |             |        |
| 5565.00                                 | H                 | -19.63      |             |        |
| 7420.00                                 | H                 | -27.44      |             |        |
| Middle                                  |                   |             |             |        |
| 3760.00                                 | Vertical          | -40.25      | -13.00      | Pass   |
| 5640.00                                 | V                 | -26.35      |             |        |
| 7520.00                                 | V                 | -36.24      |             |        |
| 3760.00                                 | Horizontal        | -39.57      |             |        |
| 5640.00                                 | H                 | -22.45      |             |        |
| 7520.00                                 | H                 | -39.68      |             |        |
| Highest                                 |                   |             |             |        |
| 3810.00                                 | Vertical          | -44.78      | -13.00      | Pass   |
| 5715.00                                 | V                 | -26.38      |             |        |
| 7620.00                                 | V                 | -28.49      |             |        |
| 3810.00                                 | Horizontal        | -44.74      |             |        |
| 5715.00                                 | H                 | -26.35      |             |        |
| 7620.00                                 | H                 | -31.47      |             |        |

| 15MHz(RB size 1 & RB offset 0) for QPSK |                   |             |             |        |
|---|-------------------|-------------|-------------|--------|
| Frequency (MHz)                         | Spurious Emission |             | Limit (dBm) | Result |
|   | Polarization      | Level (dBm) |             |        |
| Lowest                                  |                   |             |             |        |
| 3715.00                                 | Vertical          | -45.96      | -13.00      | Pass   |
| 5572.50                                 | V                 | -21.47      |             |        |
| 7430.00                                 | V                 | -31.47      |             |        |
| 3715.00                                 | Horizontal        | -40.11      |             |        |
| 5572.50                                 | H                 | -19.44      |             |        |
| 7430.00                                 | H                 | -28.46      |             |        |
| Middle                                  |                   |             |             |        |
| 3760.00                                 | Vertical          | -38.45      | -13.00      | Pass   |
| 5640.00                                 | V                 | -23.58      |             |        |
| 7520.00                                 | V                 | -34.65      |             |        |
| 3760.00                                 | Horizontal        | -40.12      |             |        |
| 5640.00                                 | H                 | -23.69      |             |        |
| 7520.00                                 | H                 | -33.47      |             |        |
| Highest                                 |                   |             |             |        |
| 3805.00                                 | Vertical          | -42.45      | -13.00      | Pass   |
| 5707.50                                 | V                 | -33.69      |             |        |
| 7610.00                                 | V                 | -33.47      |             |        |
| 3805.00                                 | Horizontal        | -45.63      |             |        |
| 5707.50                                 | H                 | -37.48      |             |        |
| 7610.00                                 | H                 | -32.58      |             |        |

| <b>20MHz(RB size 1 &amp; RB offset 0) for QPSK</b> |                   |             |             |        |
|--|-------------------|-------------|-------------|--------|
| Frequency (MHz)                                    | Spurious Emission |             | Limit (dBm) | Result |
|  | Polarization      | Level (dBm) |             |        |
| <b>Lowest</b>                                      |                   |             |             |        |
| 3720.00  | Vertical          | -44.02      | -13.00      | Pass   |
| 5580.00  | V                 | -24.14      |             |        |
| 7440.00  | V                 | -31.44      |             |        |
| 3720.00  | Horizontal        | -39.56      |             |        |
| 5580.00  | H                 | -18.92      |             |        |
| 7440.00  | H                 | -28.27      |             |        |
| <b>Middle</b>                                      |                   |             |             |        |
| 3760.00  | Vertical          | -41.46      | -13.00      | Pass   |
| 5640.00  | V                 | -25.97      |             |        |
| 7520.00  | V                 | -37.21      |             |        |
| 3760.00  | Horizontal        | -40.25      |             |        |
| 5640.00  | H                 | -23.03      |             |        |
| 7520.00  | H                 | -40.08      |             |        |
| <b>Highest</b>                                     |                   |             |             |        |
| 3800.00  | Vertical          | -43.44      | -13.00      | Pass   |
| 5700.00  | V                 | -25.81      |             |        |
| 7600.00  | V                 | -29.39      |             |        |
| 3800.00  | Horizontal        | -45.19      |             |        |
| 5700.00  | H                 | -25.33      |             |        |
| 7600.00  | H                 | -32.60      |             |        |



**LTE Band 4 Part:**
**1.4MHz(RB size 1 & RB offset 0) for QPSK**

| Frequency (MHz) | Spurious Emission |             | Limit (dBm) | Result |
|-----------------|-------------------|-------------|-------------|--------|
|                 | Polarization      | Level (dBm) |             |        |
| <b>Lowest</b>   |                   |             |             |        |
| 3421.40         | Vertical          | -46.18      | -13.00      | Pass   |
| 5132.10         | V                 | -27.80      |             |        |
| 6842.80         | V                 | -24.14      |             |        |
| 3421.40         | Horizontal        | -47.79      |             |        |
| 5132.10         | H                 | -27.94      |             |        |
| 6842.80         | H                 | -28.26      |             |        |
| <b>Middle</b>   |                   |             |             |        |
| 3465.00         | Vertical          | -43.06      | -13.00      | Pass   |
| 5197.50         | V                 | -26.82      |             |        |
| 6930.00         | V                 | -28.30      |             |        |
| 3465.00         | Horizontal        | -41.77      |             |        |
| 5197.50         | H                 | -26.07      |             |        |
| 6930.00         | H                 | -30.37      |             |        |
| <b>Highest</b>  |                   |             |             |        |
| 3508.60         | Vertical          | -40.98      | -13.00      | Pass   |
| 5262.90         | V                 | -23.17      |             |        |
| 7017.20         | V                 | -24.11      |             |        |
| 3508.60         | Horizontal        | -45.06      |             |        |
| 5262.90         | H                 | -23.31      |             |        |
| 7017.20         | H                 | -33.35      |             |        |

| 3MHz(RB size 1 & RB offset 0) for QPSK |                   |             |             |        |
|--|-------------------|-------------|-------------|--------|
| Frequency (MHz)                        | Spurious Emission |             | Limit (dBm) | Result |
|  | Polarization      | Level (dBm) |             |        |
| Lowest                                 |                   |             |             |        |
| 3423.00                                | Vertical          | -45.12      | -13.00      | Pass   |
| 5134.50                                | V                 | -27.85      |             |        |
| 6846.00                                | V                 | -23.69      |             |        |
| 3423.00                                | Horizontal        | -42.53      |             |        |
| 5134.50                                | H                 | -25.64      |             |        |
| 6846.00                                | H                 | -23.96      |             |        |
| Middle                                 |                   |             |             |        |
| 3465.00                                | Vertical          | -42.69      | -13.00      | Pass   |
| 5197.50                                | V                 | -27.48      |             |        |
| 6930.00                                | V                 | -29.64      |             |        |
| 3465.00                                | Horizontal        | -31.24      |             |        |
| 5197.50                                | H                 | -27.54      |             |        |
| 6930.00                                | H                 | -28.53      |             |        |
| Highest                                |                   |             |             |        |
| 3507.00                                | Vertical          | -42.69      | -13.00      | Pass   |
| 5260.50                                | V                 | -30.14      |             |        |
| 7014.00                                | V                 | -32.65      |             |        |
| 3507.00                                | Horizontal        | -43.25      |             |        |
| 5260.50                                | H                 | -27.45      |             |        |
| 7014.00                                | H                 | -31.28      |             |        |

| 5MHz(RB size 1 & RB offset 0) for QPSK |                   |             |             |        |
|--|-------------------|-------------|-------------|--------|
| Frequency (MHz)                        | Spurious Emission |             | Limit (dBm) | Result |
|  | Polarization      | Level (dBm) |             |        |
| Lowest                                 |                   |             |             |        |
| 3425.00                                | Vertical          | -45.96      | -13.00      | Pass   |
| 5137.50                                | V                 | -28.12      |             |        |
| 6850.00                                | V                 | -23.69      |             |        |
| 3425.00                                | Horizontal        | -48.51      |             |        |
| 5137.50                                | H                 | -28.41      |             |        |
| 6850.00                                | H                 | -27.12      |             |        |
| Middle                                 |                   |             |             |        |
| 3465.00                                | Vertical          | -42.36      | -13.00      | Pass   |
| 5197.50                                | V                 | -27.85      |             |        |
| 6930.00                                | V                 | -27.48      |             |        |
| 3465.00                                | Horizontal        | -42.36      |             |        |
| 5197.50                                | H                 | -27.96      |             |        |
| 6930.00                                | H                 | -29.45      |             |        |
| Highest                                |                   |             |             |        |
| 3505.00                                | Vertical          | -39.65      | -13.00      | Pass   |
| 5257.50                                | V                 | -24.15      |             |        |
| 7010.00                                | V                 | -25.63      |             |        |
| 3505.00                                | Horizontal        | -46.96      |             |        |
| 5257.50                                | H                 | -24.15      |             |        |
| 7010.00                                | H                 | -34.52      |             |        |

| 10MHz(RB size 1 & RB offset 0) for QPSK |                   |             |             |        |
|---|-------------------|-------------|-------------|--------|
| Frequency (MHz)                         | Spurious Emission |             | Limit (dBm) | Result |
|   | Polarization      | Level (dBm) |             |        |
| Lowest                                  |                   |             |             |        |
| 3430.00                                 | Vertical          | -44.78      | -13.00      | Pass   |
| 5145.00                                 | V                 | -26.35      |             |        |
| 6860.00                                 | V                 | -24.17      |             |        |
| 3430.00                                 | Horizontal        | -43.69      |             |        |
| 5145.00                                 | H                 | -24.36      |             |        |
| 6860.00                                 | H                 | -24.64      |             |        |
| Middle                                  |                   |             |             |        |
| 3465.00                                 | Vertical          | -43.25      | -13.00      | Pass   |
| 5197.50                                 | V                 | -28.69      |             |        |
| 6930.00                                 | V                 | -30.25      |             |        |
| 3465.00                                 | Horizontal        | -41.32      |             |        |
| 5197.50                                 | H                 | -26.35      |             |        |
| 6930.00                                 | H                 | -29.54      |             |        |
| Highest                                 |                   |             |             |        |
| 3500.00                                 | Vertical          | -43.65      | -13.00      | Pass   |
| 5250.00                                 | V                 | -29.63      |             |        |
| 7000.00                                 | V                 | -31.55      |             |        |
| 3500.00                                 | Horizontal        | -42.36      |             |        |
| 5250.00                                 | H                 | -26.45      |             |        |
| 7000.00                                 | H                 | -30.47      |             |        |

| 15MHz(RB size 1 & RB offset 0) for QPSK |                   |             |             |        |
|---|-------------------|-------------|-------------|--------|
| Frequency (MHz)                         | Spurious Emission |             | Limit (dBm) | Result |
|   | Polarization      | Level (dBm) |             |        |
| Lowest                                  |                   |             |             |        |
| 3435.00                                 | Vertical          | -44.96      | -13.00      | Pass   |
| 5152.50                                 | V                 | -27.41      |             |        |
| 6870.00                                 | V                 | -24.69      |             |        |
| 3435.00                                 | Horizontal        | -49.86      |             |        |
| 5152.50                                 | H                 | -27.45      |             |        |
| 6870.00                                 | H                 | -26.39      |             |        |
| Middle                                  |                   |             |             |        |
| 3465.00                                 | Vertical          | -43.69      | -13.00      | Pass   |
| 5197.50                                 | V                 | -28.74      |             |        |
| 6930.00                                 | V                 | -26.95      |             |        |
| 3465.00                                 | Horizontal        | -43.66      |             |        |
| 5197.50                                 | H                 | -26.96      |             |        |
| 6930.00                                 | H                 | -30.21      |             |        |
| Highest                                 |                   |             |             |        |
| 3495.00                                 | Vertical          | -38.56      | -13.00      | Pass   |
| 5242.50                                 | V                 | -25.74      |             |        |
| 6990.00                                 | V                 | -26.38      |             |        |
| 3495.00                                 | Horizontal        | -45.32      |             |        |
| 5242.50                                 | H                 | -23.65      |             |        |
| 6990.00                                 | H                 | -33.14      |             |        |

| 20MHz(RB size 1 & RB offset 0) for QPSK |                   |             |             |        |
|---|-------------------|-------------|-------------|--------|
| Frequency (MHz)                         | Spurious Emission |             | Limit (dBm) | Result |
|   | Polarization      | Level (dBm) |             |        |
| Lowest                                  |                   |             |             |        |
| 3440.00                                 | Vertical          | -45.32      | -13.00      | Pass   |
| 5160.00                                 | V                 | -27.00      |             |        |
| 6880.00                                 | V                 | -25.59      |             |        |
| 3440.00                                 | Horizontal        | -44.08      |             |        |
| 5160.00                                 | H                 | -25.33      |             |        |
| 6880.00                                 | H                 | -25.70      |             |        |
| Middle                                  |                   |             |             |        |
| 3465.00                                 | Vertical          | -44.88      | -13.00      | Pass   |
| 5197.50                                 | V                 | -27.73      |             |        |
| 6930.00                                 | V                 | -29.44      |             |        |
| 3465.00                                 | Horizontal        | -42.54      |             |        |
| 5197.50                                 | H                 | -25.64      |             |        |
| 6930.00                                 | H                 | -30.32      |             |        |
| Highest                                 |                   |             |             |        |
| 3490.00                                 | Vertical          | -44.78      | -13.00      | Pass   |
| 5235.00                                 | V                 | -28.12      |             |        |
| 6980.00                                 | V                 | -30.29      |             |        |
| 3490.00                                 | Horizontal        | -41.41      |             |        |
| 5235.00                                 | H                 | -25.53      |             |        |
| 6980.00                                 | H                 | -31.03      |             |        |

**LTE Band 5 Part:**
**1.4MHz(RB size 1 & RB offset 0) for QPSK**

| Frequency (MHz) | Spurious Emission |             | Limit (dBm) | Result |
|-----------------|-------------------|-------------|-------------|--------|
|                 | Polarization      | Level (dBm) |             |        |
| <b>Lowest</b>   |                   |             |             |        |
| 1649.40         | Vertical          | -33.05      | -13         | Pass   |
| 2474.10         | V                 | -48.85      |             |        |
| 3298.80         | V                 | -47.50      |             |        |
| 1649.40         | Horizontal        | -41.14      |             |        |
| 2474.10         | H                 | -54.50      |             |        |
| 3298.80         | H                 | -49.53      |             |        |
| <b>Middle</b>   |                   |             |             |        |
| 1673.00         | Vertical          | -41.89      | -13         | Pass   |
| 2509.50         | V                 | -48.43      |             |        |
| 3346.00         | V                 | -49.66      |             |        |
| 1673.00         | Horizontal        | -48.27      |             |        |
| 2509.50         | H                 | -49.40      |             |        |
| 3346.00         | H                 | -49.18      |             |        |
| <b>Highest</b>  |                   |             |             |        |
| 1696.60         | Vertical          | -40.04      | -13         | Pass   |
| 2544.90         | V                 | -47.58      |             |        |
| 3393.20         | V                 | -47.03      |             |        |
| 1696.60         | Horizontal        | -45.53      |             |        |
| 2544.90         | H                 | -50.97      |             |        |
| 3393.20         | H                 | -47.39      |             |        |

| 3MHz(RB size 1 & RB offset 0) for QPSK |                   |             |             |        |
|--|-------------------|-------------|-------------|--------|
| Frequency (MHz)                        | Spurious Emission |             | Limit (dBm) | Result |
|  | Polarization      | Level (dBm) |             |        |
| Lowest                                 |                   |             |             |        |
| 1651.00                                | Vertical          | -31.52      | -13         | Pass   |
| 2476.50                                | V                 | -48.69      |             |        |
| 3302.00                                | V                 | -43.24      |             |        |
| 1651.00                                | Horizontal        | -41.56      |             |        |
| 2476.50                                | H                 | -44.78      |             |        |
| 3302.00                                | H                 | -48.36      |             |        |
| Middle                                 |                   |             |             |        |
| 1673.00                                | Vertical          | -37.85      | -13         | Pass   |
| 2509.50                                | V                 | -46.35      |             |        |
| 3346.00                                | V                 | -48.63      |             |        |
| 1673.00                                | Horizontal        | -45.23      |             |        |
| 2509.50                                | H                 | -49.63      |             |        |
| 3346.00                                | H                 | -46.21      |             |        |
| Highest                                |                   |             |             |        |
| 1695.00                                | Vertical          | -35.26      | -13         | Pass   |
| 2542.50                                | V                 | -47.15      |             |        |
| 3390.00                                | V                 | -43.29      |             |        |
| 1695.00                                | Horizontal        | -42.53      |             |        |
| 2542.50                                | H                 | -48.56      |             |        |
| 3390.00                                | H                 | -44.15      |             |        |



| 5MHz(RB size 1 & RB offset 0) for QPSK |                   |             |             |        |
|--|-------------------|-------------|-------------|--------|
| Frequency (MHz)                        | Spurious Emission |             | Limit (dBm) | Result |
|  | Polarization      | Level (dBm) |             |        |
| Lowest                                 |                   |             |             |        |
| 1653.00                                | Vertical          | -34.56      | -13         | Pass   |
| 2479.50                                | V                 | -47.54      |             |        |
| 3306.00                                | V                 | -48.62      |             |        |
| 1653.00                                | Horizontal        | -40.32      |             |        |
| 2479.50                                | H                 | -55.24      |             |        |
| 3306.00                                | H                 | -48.96      |             |        |
| Middle                                 |                   |             |             |        |
| 1673.00                                | Vertical          | -40.36      | -13         | Pass   |
| 2509.50                                | V                 | -47.56      |             |        |
| 3346.00                                | V                 | -48.54      |             |        |
| 1673.00                                | Horizontal        | -49.63      |             |        |
| 2509.50                                | H                 | -50.32      |             |        |
| 3346.00                                | H                 | -48.38      |             |        |
| Highest                                |                   |             |             |        |
| 1693.00                                | Vertical          | -39.65      | -13         | Pass   |
| 2539.50                                | V                 | -46.35      |             |        |
| 3386.00                                | V                 | -48.63      |             |        |
| 1693.00                                | Horizontal        | -44.65      |             |        |
| 2539.50                                | H                 | -49.82      |             |        |
| 3386.00                                | H                 | -48.53      |             |        |

| 10MHz(RB size 1 & RB offset 0) for QPSK |                   |             |             |        |
|---|-------------------|-------------|-------------|--------|
| Frequency (MHz)                         | Spurious Emission |             | Limit (dBm) | Result |
|   | Polarization      | Level (dBm) |             |        |
| Lowest                                  |                   |             |             |        |
| 1658.00                                 | Vertical          | -32.52      | -13         | Pass   |
| 2487.00                                 | V                 | -49.98      |             |        |
| 3316.00                                 | V                 | -44.77      |             |        |
| 1658.00                                 | Horizontal        | -40.27      |             |        |
| 2487.00                                 | H                 | -45.59      |             |        |
| 3316.00                                 | H                 | -49.37      |             |        |
| Middle                                  |                   |             |             |        |
| 1673.00                                 | Vertical          | -38.62      | -13         | Pass   |
| 2509.50                                 | V                 | -47.84      |             |        |
| 3346.00                                 | V                 | -47.14      |             |        |
| 1673.00                                 | Horizontal        | -44.56      |             |        |
| 2509.50                                 | H                 | -50.03      |             |        |
| 3346.00                                 | H                 | -47.17      |             |        |
| Highest                                 |                   |             |             |        |
| 1688.00                                 | Vertical          | -34.36      | -13         | Pass   |
| 2532.00                                 | V                 | -46.61      |             |        |
| 3376.00                                 | V                 | -42.41      |             |        |
| 1688.00                                 | Horizontal        | -41.66      |             |        |
| 2532.00                                 | H                 | -47.87      |             |        |
| 3376.00                                 | H                 | -43.61      |             |        |

LTE Band 7 Part:

5MHz(RB size 1 & RB offset 0) for QPSK

| Frequency (MHz) | Spurious Emission |             | Limit (dBm) | Result |
|-----------------|-------------------|-------------|-------------|--------|
|                 | Polarization      | Level (dBm) |             |        |
| Lowest          |                   |             |             |        |
| 5005.00         | Vertical          | -37.16      | -25.00      | Pass   |
| 7507.50         | V                 | -33.24      |             |        |
| 10010.00        | V                 | -36.09      |             |        |
| 5005.00         | Horizontal        | -41.32      |             |        |
| 7507.50         | H                 | -25.24      |             |        |
| 10010.00        | H                 | -35.30      |             |        |
| Middle          |                   |             |             |        |
| 5070.00         | Vertical          | -39.13      | -25.00      | Pass   |
| 7605.00         | V                 | -34.22      |             |        |
| 10140.00        | V                 | -35.33      |             |        |
| 5070.00         | Horizontal        | -39.35      |             |        |
| 7605.00         | H                 | -27.56      |             |        |
| 10140.00        | H                 | -32.19      |             |        |
| Highest         |                   |             |             |        |
| 5135.00         | Vertical          | -39.62      | -25.00      | Pass   |
| 7702.50         | V                 | -33.24      |             |        |
| 10270.00        | V                 | -36.16      |             |        |
| 5135.00         | Horizontal        | -36.00      |             |        |
| 7702.50         | H                 | -27.58      |             |        |
| 10270.00        | H                 | -33.11      |             |        |

| 10MHz(RB size 1 & RB offset 0) for QPSK |                   |             |             |        |
|---|-------------------|-------------|-------------|--------|
| Frequency (MHz)                         | Spurious Emission |             | Limit (dBm) | Result |
|   | Polarization      | Level (dBm) |             |        |
| Lowest                                  |                   |             |             |        |
| 5010.00                                 | Vertical          | -38.56      | -25.00      | Pass   |
| 7515.00                                 | V                 | -31.26      |             |        |
| 10020.00                                | V                 | -34.15      |             |        |
| 5010.00                                 | Horizontal        | -39.65      |             |        |
| 7515.00                                 | H                 | -26.35      |             |        |
| 10020.00                                | H                 | -36.14      |             |        |
| Middle                                  |                   |             |             |        |
| 5070.00                                 | Vertical          | -38.15      | -25.00      | Pass   |
| 7605.00                                 | V                 | -36.58      |             |        |
| 10140.00                                | V                 | -36.59      |             |        |
| 5070.00                                 | Horizontal        | -35.68      |             |        |
| 7605.00                                 | H                 | -30.14      |             |        |
| 10140.00                                | H                 | -34.52      |             |        |
| Highest                                 |                   |             |             |        |
| 5130.00                                 | Vertical          | -41.52      | -25.00      | Pass   |
| 7695.00                                 | V                 | -36.25      |             |        |
| 10260.00                                | V                 | -36.74      |             |        |
| 5130.00                                 | Horizontal        | -38.47      |             |        |
| 7695.00                                 | H                 | -31.24      |             |        |
| 10260.00                                | H                 | -32.75      |             |        |

| 15MHz(RB size 1 & RB offset 0) for QPSK |                   |             |             |        |
|---|-------------------|-------------|-------------|--------|
| Frequency (MHz)                         | Spurious Emission |             | Limit (dBm) | Result |
|   | Polarization      | Level (dBm) |             |        |
| Lowest                                  |                   |             |             |        |
| 5015.00                                 | Vertical          | -38.25      | -25.00      | Pass   |
| 7522.50                                 | V                 | -34.56      |             |        |
| 10030.00                                | V                 | -37.15      |             |        |
| 5015.00                                 | Horizontal        | -42.36      |             |        |
| 7522.50                                 | H                 | -26.31      |             |        |
| 10030.00                                | H                 | -34.56      |             |        |
| Middle                                  |                   |             |             |        |
| 5070.00                                 | Vertical          | -38.54      | -25.00      | Pass   |
| 7605.00                                 | V                 | -35.26      |             |        |
| 10140.00                                | V                 | -36.24      |             |        |
| 5070.00                                 | Horizontal        | -40.15      |             |        |
| 7605.00                                 | H                 | -28.56      |             |        |
| 10140.00                                | H                 | -33.15      |             |        |
| Highest                                 |                   |             |             |        |
| 5125.00                                 | Vertical          | -40.21      | -25.00      | Pass   |
| 7687.50                                 | V                 | -34.12      |             |        |
| 10250.00                                | V                 | -37.45      |             |        |
| 5125.00                                 | Horizontal        | -37.11      |             |        |
| 7687.50                                 | H                 | -28.45      |             |        |
| 10250.00                                | H                 | -34.25      |             |        |

| 20MHz(RB size 1 & RB offset 0) for QPSK |                   |             |             |        |
|---|-------------------|-------------|-------------|--------|
| Frequency (MHz)                         | Spurious Emission |             | Limit (dBm) | Result |
|   | Polarization      | Level (dBm) |             |        |
| Lowest                                  |                   |             |             |        |
| 5020.00                                 | Vertical          | -37.30      | -25.00      | Pass   |
| 7530.00                                 | V                 | -30.76      |             |        |
| 10040.00                                | V                 | -35.32      |             |        |
| 5020.00                                 | Horizontal        | -40.46      |             |        |
| 7530.00                                 | H                 | -25.08      |             |        |
| 10040.00                                | H                 | -35.45      |             |        |
| Middle                                  |                   |             |             |        |
| 5070.00                                 | Vertical          | -39.67      | -25.00      | Pass   |
| 7605.00                                 | V                 | -35.96      |             |        |
| 10140.00                                | V                 | -35.44      |             |        |
| 5070.00                                 | Horizontal        | -34.97      |             |        |
| 7605.00                                 | H                 | -29.07      |             |        |
| 10140.00                                | H                 | -33.67      |             |        |
| Highest                                 |                   |             |             |        |
| 5120.00                                 | Vertical          | -40.31      | -25.00      | Pass   |
| 7680.00                                 | V                 | -35.97      |             |        |
| 10240.00                                | V                 | -35.56      |             |        |
| 5120.00                                 | Horizontal        | -37.80      |             |        |
| 7680.00                                 | H                 | -30.16      |             |        |
| 10240.00                                | H                 | -31.59      |             |        |

**LTE Band 17 Part:**
**5MHz(RB size 1 & RB offset 0) for QPSK**

| Frequency (MHz) | Spurious Emission |             | Limit (dBm) | Result |
|-----------------|-------------------|-------------|-------------|--------|
|                 | Polarization      | Level (dBm) |             |        |
| Lowest          |                   |             |             |        |
| 1413.00         | Vertical          | -44.71      | -13.00      | Pass   |
| 2119.50         | V                 | -51.18      |             |        |
| 2826.00         | V                 | -47.70      |             |        |
| 1413.00         | Horizontal        | -42.88      |             |        |
| 2119.50         | H                 | -53.18      |             |        |
| 2826.00         | H                 | -44.10      |             |        |
| Middle          |                   |             |             |        |
| 1420.00         | Vertical          | -46.28      | -13.00      | Pass   |
| 2130.00         | V                 | -51.37      |             |        |
| 2840.00         | V                 | -46.82      |             |        |
| 1420.00         | Horizontal        | -45.66      |             |        |
| 2130.00         | H                 | -54.87      |             |        |
| 2840.00         | H                 | -44.58      |             |        |
| Highest         |                   |             |             |        |
| 1427.00         | Vertical          | -50.58      | -13.00      | Pass   |
| 2140.50         | V                 | -55.30      |             |        |
| 2854.00         | V                 | -50.89      |             |        |
| 1427.00         | Horizontal        | -53.87      |             |        |
| 2140.50         | H                 | -54.97      |             |        |
| 2854.00         | H                 | -47.02      |             |        |

| 10MHz(RB size 1 & RB offset 0) for QPSK |                   |             |             |        |
|---|-------------------|-------------|-------------|--------|
| Frequency (MHz)                         | Spurious Emission |             | Limit (dBm) | Result |
|   | Polarization      | Level (dBm) |             |        |
| Lowest                                  |                   |             |             |        |
| 1418.00                                 | Vertical          | -44.80      | -13.00      | Pass   |
| 2127.00                                 | V                 | -52.09      |             |        |
| 2836.00                                 | V                 | -47.45      |             |        |
| 1418.00                                 | Horizontal        | -48.10      |             |        |
| 2127.00                                 | H                 | -55.38      |             |        |
| 2836.00                                 | H                 | -42.89      |             |        |
| Middle                                  |                   |             |             |        |
| 1420.00                                 | Vertical          | -45.64      | -13.00      | Pass   |
| 2130.00                                 | V                 | -50.73      |             |        |
| 2840.00                                 | V                 | -47.76      |             |        |
| 1420.00                                 | Horizontal        | -47.17      |             |        |
| 2130.00                                 | H                 | -56.60      |             |        |
| 2840.00                                 | H                 | -43.34      |             |        |
| Highest                                 |                   |             |             |        |
| 1422.00                                 | Vertical          | -46.56      | -13.00      | Pass   |
| 2133.00                                 | V                 | -52.08      |             |        |
| 2844.00                                 | V                 | -48.02      |             |        |
| 1422.00                                 | Horizontal        | -47.61      |             |        |
| 2133.00                                 | H                 | -55.16      |             |        |
| 2844.00                                 | H                 | -42.96      |             |        |



LTE Band 41 Part:

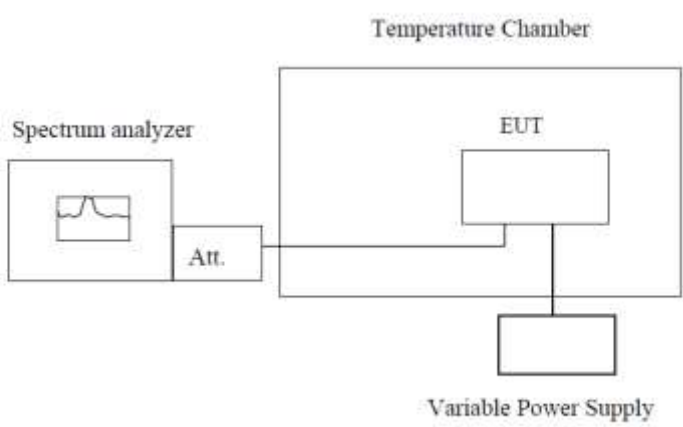
| 5MHz(RB size 1 & RB offset 0) for QPSK |                   |             |             |        |
|--|-------------------|-------------|-------------|--------|
| Frequency (MHz)                        | Spurious Emission |             | Limit (dBm) | Result |
|  | Polarization      | Level (dBm) |             |        |
| Lowest                                 |                   |             |             |        |
| 4997.00                                | Vertical          | -31.45      | -25.00      | Pass   |
| 7495.50                                | V                 | -26.95      |             |        |
| 9994.00                                | V                 | -32.11      |             |        |
| 4997.00                                | Horizontal        | -25.69      |             |        |
| 7495.50                                | H                 | -29.97      |             |        |
| 9994.00                                | H                 | -31.39      |             |        |
| Middle                                 |                   |             |             |        |
| 5186.00                                | Vertical          | -35.61      | -25.00      | Pass   |
| 7779.00                                | V                 | -26.77      |             |        |
| 10372.00                               | V                 | -32.24      |             |        |
| 5186.00                                | Horizontal        | -34.71      |             |        |
| 7779.00                                | H                 | -25.89      |             |        |
| 10372.00                               | H                 | -32.82      |             |        |
| Highest                                |                   |             |             |        |
| 5375.00                                | Vertical          | -36.80      | -25.00      | Pass   |
| 8062.50                                | V                 | -25.87      |             |        |
| 10750.00                               | V                 | -37.51      |             |        |
| 5375.00                                | Horizontal        | -25.42      |             |        |
| 8062.50                                | H                 | -25.73      |             |        |
| 10750.00                               | H                 | -32.86      |             |        |

| 10MHz(RB size 1 & RB offset 0) for QPSK |                   |             |             |        |
|---|-------------------|-------------|-------------|--------|
| Frequency (MHz)                         | Spurious Emission |             | Limit (dBm) | Result |
|   | Polarization      | Level (dBm) |             |        |
| Lowest                                  |                   |             |             |        |
| 5002.00                                 | Vertical          | -30.14      | -25.00      | Pass   |
| 7503.00                                 | V                 | -28.74      |             |        |
| 10004.00                                | V                 | -30.47      |             |        |
| 5002.00                                 | Horizontal        | -28.69      |             |        |
| 7503.00                                 | H                 | -30.12      |             |        |
| 10004.00                                | H                 | -30.47      |             |        |
| Middle                                  |                   |             |             |        |
| 5186.00                                 | Vertical          | -30.41      | -25.00      | Pass   |
| 7779.00                                 | V                 | -28.69      |             |        |
| 10372.00                                | V                 | -32.62      |             |        |
| 5186.00                                 | Horizontal        | -28.96      |             |        |
| 7779.00                                 | H                 | -26.35      |             |        |
| 10372.00                                | H                 | -33.52      |             |        |
| Highest                                 |                   |             |             |        |
| 5370.00                                 | Vertical          | -30.16      | -25.00      | Pass   |
| 8055.00                                 | V                 | -29.65      |             |        |
| 10740.00                                | V                 | -35.42      |             |        |
| 5370.00                                 | Horizontal        | -26.38      |             |        |
| 8055.00                                 | H                 | -30.47      |             |        |
| 10740.00                                | H                 | -35.74      |             |        |

| 15MHz(RB size 1 & RB offset 0) for QPSK |                   |             |             |        |
|---|-------------------|-------------|-------------|--------|
| Frequency (MHz)                         | Spurious Emission |             | Limit (dBm) | Result |
|   | Polarization      | Level (dBm) |             |        |
| Lowest                                  |                   |             |             |        |
| 5007.00                                 | Vertical          | -30.14      | -25.00      | Pass   |
| 7510.50                                 | V                 | -27.41      |             |        |
| 10014.00                                | V                 | -31.14      |             |        |
| 5007.00                                 | Horizontal        | -26.53      |             |        |
| 7510.50                                 | H                 | -30.11      |             |        |
| 10014.00                                | H                 | -32.41      |             |        |
| Middle                                  |                   |             |             |        |
| 5186.00                                 | Vertical          | -34.12      | -25.00      | Pass   |
| 7779.00                                 | V                 | -27.84      |             |        |
| 10372.00                                | V                 | -33.15      |             |        |
| 5186.00                                 | Horizontal        | -33.74      |             |        |
| 7779.00                                 | H                 | -26.53      |             |        |
| 10372.00                                | H                 | -33.74      |             |        |
| Highest                                 |                   |             |             |        |
| 5365.00                                 | Vertical          | -35.26      | -25.00      | Pass   |
| 8047.50                                 | V                 | -26.53      |             |        |
| 10730.00                                | V                 | -36.47      |             |        |
| 5365.00                                 | Horizontal        | -26.53      |             |        |
| 8047.50                                 | H                 | -26.59      |             |        |
| 10730.00                                | H                 | -33.14      |             |        |

| 20MHz(RB size 1 & RB offset 0) for QPSK |                   |             |             |        |
|---|-------------------|-------------|-------------|--------|
| Frequency (MHz)                         | Spurious Emission |             | Limit (dBm) | Result |
|   | Polarization      | Level (dBm) |             |        |
| Lowest                                  |                   |             |             |        |
| 5012.00                                 | Vertical          | -31.18      | -25.00      | Pass   |
| 7518.00                                 | V                 | -27.11      |             |        |
| 10024.00                                | V                 | -31.90      |             |        |
| 5012.00                                 | Horizontal        | -27.08      |             |        |
| 7518.00                                 | H                 | -29.90      |             |        |
| 10024.00                                | H                 | -31.26      |             |        |
| Middle                                  |                   |             |             |        |
| 5186.00                                 | Vertical          | -29.75      | -25.00      | Pass   |
| 7779.00                                 | V                 | -27.70      |             |        |
| 10372.00                                | V                 | -33.48      |             |        |
| 5186.00                                 | Horizontal        | -27.45      |             |        |
| 7779.00                                 | H                 | -25.85      |             |        |
| 10372.00                                | H                 | -34.43      |             |        |
| Highest                                 |                   |             |             |        |
| 5360.00                                 | Vertical          | -29.99      | -25.00      | Pass   |
| 8040.00                                 | V                 | -28.32      |             |        |
| 10720.00                                | V                 | -36.12      |             |        |
| 5360.00                                 | Horizontal        | -25.68      |             |        |
| 8040.00                                 | H                 | -29.19      |             |        |
| 10720.00                                | H                 | -36.41      |             |        |

## 6.12 Frequency stability V.S. Temperature measurement

|                   |   |
|-------------------|---|
| Test Requirement: | FCC Part2.1055(a)(1)(b)   |
| Test Method:      | FCC Part2.1055(a)(1)(b)   |
| Limit:            | ±2.5ppm   |
| Test setup:       |  <p><b>Note :</b> Measurement setup for testing on Antenna connector</p>  |
| Test procedure:   | <ol style="list-style-type: none"> <li>1. The equipment under test was connected to an external DC power supply and input rated voltage.</li> <li>2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators.</li> <li>3. The EUT was placed inside the temperature chamber.</li> <li>4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency.</li> <li>5. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency.</li> <li>6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached</li> </ol> |
| Test Instruments: | Refer to section 5.8 for details  |
| Test mode:        | Refer to section 5.3 for details  |
| Test results:     | Passed  |
| Remark:           | All three channels of all modulations have been tested, but only the worst channel and the worst modulation show in this test item.   |

Measurement Data (the worst channel):

### LTE Band 2(QPSK):

| Reference Frequency: LTE Band 2(1.4MHz) Middle channel=18900 channel=1880.00MHz |                  |                 |          |             |        |
|---|------------------|-----------------|----------|-------------|--------|
| Power supplied (Vdc)  | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|   |                  | Hz              | ppm      |             |        |
| 3.80  | -30              | 199             | 0.105851 | ±2.5        | Pass   |
|   | -20              | 113             | 0.060106 |             |        |
|   | -10              | 135             | 0.071809 |             |        |
|   | 0                | 134             | 0.071277 |             |        |
|   | 10               | 122             | 0.064894 |             |        |
|   | 20               | 132             | 0.070213 |             |        |
|   | 30               | 101             | 0.053723 |             |        |
|   | 40               | 154             | 0.081915 |             |        |
|   | 50               | 111             | 0.059043 |             |        |
| Reference Frequency: LTE Band 2(3MHz) Middle channel=18900 channel=1880.00MHz   |                  |                 |          |             |        |
| Power supplied (Vdc)  | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|   |                  | Hz              | ppm      |             |        |
| 3.80  | -30              | 163             | 0.086702 | ±2.5        | Pass   |
|   | -20              | 123             | 0.065426 |             |        |
|   | -10              | 136             | 0.072340 |             |        |
|   | 0                | 120             | 0.063830 |             |        |
|   | 10               | 144             | 0.076596 |             |        |
|   | 20               | 107             | 0.056915 |             |        |
|   | 30               | 165             | 0.087766 |             |        |
|   | 40               | 108             | 0.057447 |             |        |
|   | 50               | 134             | 0.071277 |             |        |
| Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz   |                  |                 |          |             |        |
| Power supplied (Vdc)  | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|   |                  | Hz              | ppm      |             |        |
| 3.80  | -30              | 116             | 0.061702 | ±2.5        | Pass   |
|   | -20              | 123             | 0.065426 |             |        |
|   | -10              | 147             | 0.078191 |             |        |
|   | 0                | 144             | 0.076596 |             |        |
|   | 10               | 160             | 0.085106 |             |        |
|   | 20               | 155             | 0.082447 |             |        |
|   | 30               | 180             | 0.095745 |             |        |
|   | 40               | 104             | 0.055319 |             |        |
|   | 50               | 102             | 0.054255 |             |        |

| Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz |                  |                 |          |             |        |
|--|------------------|-----------------|----------|-------------|--------|
| Power supplied (Vdc)   | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|  |                  | Hz              | ppm      |             |        |
| 3.80   | -30              | 171             | 0.090957 | ±2.5        | Pass   |
|  | -20              | 113             | 0.060106 |             |        |
|  | -10              | 165             | 0.087766 |             |        |
|  | 0                | 104             | 0.055319 |             |        |
|  | 10               | 171             | 0.090957 |             |        |
|  | 20               | 146             | 0.077660 |             |        |
|  | 30               | 100             | 0.053191 |             |        |
|  | 40               | 118             | 0.062766 |             |        |
|  | 50               | 128             | 0.068085 |             |        |
| Reference Frequency: LTE Band 2(15MHz) Middle channel=18900 channel=1880.00MHz |                  |                 |          |             |        |
| Power supplied (Vdc)   | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|  |                  | Hz              | ppm      |             |        |
| 3.80   | -30              | 151             | 0.080319 | ±2.5        | Pass   |
|  | -20              | 165             | 0.087766 |             |        |
|  | -10              | 171             | 0.090957 |             |        |
|  | 0                | 144             | 0.076596 |             |        |
|  | 10               | 100             | 0.053191 |             |        |
|  | 20               | 133             | 0.070745 |             |        |
|  | 30               | 138             | 0.073404 |             |        |
|  | 40               | 104             | 0.055319 |             |        |
|  | 50               | 148             | 0.078723 |             |        |
| Reference Frequency: LTE Band 2(20MHz) Middle channel=18900 channel=1880.00MHz |                  |                 |          |             |        |
| Power supplied (Vdc)   | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|  |                  | Hz              | ppm      |             |        |
| 3.80   | -30              | 197             | 0.104787 | ±2.5        | Pass   |
|  | -20              | 123             | 0.065426 |             |        |
|  | -10              | 132             | 0.070213 |             |        |
|  | 0                | 116             | 0.061702 |             |        |
|  | 10               | 181             | 0.096277 |             |        |
|  | 20               | 175             | 0.093085 |             |        |
|  | 30               | 148             | 0.078723 |             |        |
|  | 40               | 123             | 0.065426 |             |        |
|  | 50               | 127             | 0.067553 |             |        |

**LTE Band 2(16QAM):**

| Reference Frequency: LTE Band 2(1.4MHz) Middle channel=18900 channel=1880.00MHz |                  |                 |          |             |        |
|---|------------------|-----------------|----------|-------------|--------|
| Power supplied (Vdc)  | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|   |                  | Hz              | ppm      |             |        |
| 3.80  | -30              | 152             | 0.080851 | ±2.5        | Pass   |
|   | -20              | 141             | 0.075000 |             |        |
|   | -10              | 124             | 0.065957 |             |        |
|   | 0                | 171             | 0.090957 |             |        |
|   | 10               | 141             | 0.075000 |             |        |
|   | 20               | 133             | 0.070745 |             |        |
|   | 30               | 136             | 0.072340 |             |        |
|   | 40               | 108             | 0.057447 |             |        |
|   | 50               | 118             | 0.062766 |             |        |
| Reference Frequency: LTE Band 2(3MHz) Middle channel=18900 channel=1880.00MHz   |                  |                 |          |             |        |
| Power supplied (Vdc)  | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|   |                  | Hz              | ppm      |             |        |
| 3.80  | -30              | 126             | 0.067021 | ±2.5        | Pass   |
|   | -20              | 150             | 0.079787 |             |        |
|   | -10              | 155             | 0.082447 |             |        |
|   | 0                | 123             | 0.065426 |             |        |
|   | 10               | 113             | 0.060106 |             |        |
|   | 20               | 126             | 0.067021 |             |        |
|   | 30               | 138             | 0.073404 |             |        |
|   | 40               | 144             | 0.076596 |             |        |
|   | 50               | 120             | 0.063830 |             |        |
| Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz   |                  |                 |          |             |        |
| Power supplied (Vdc)  | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|   |                  | Hz              | ppm      |             |        |
| 3.80  | -30              | 137             | 0.072872 | ±2.5        | Pass   |
|   | -20              | 123             | 0.065426 |             |        |
|   | -10              | 132             | 0.070213 |             |        |
|   | 0                | 153             | 0.081383 |             |        |
|   | 10               | 126             | 0.067021 |             |        |
|   | 20               | 144             | 0.076596 |             |        |
|   | 30               | 148             | 0.078723 |             |        |
|   | 40               | 166             | 0.088298 |             |        |
|   | 50               | 141             | 0.075000 |             |        |



| Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz |                  |                 |          |             |        |
|--|------------------|-----------------|----------|-------------|--------|
| Power supplied (Vdc)   | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|  |                  | Hz              | ppm      |             |        |
| 3.80   | -30              | 171             | 0.090957 | ±2.5        | Pass   |
|  | -20              | 127             | 0.067553 |             |        |
|  | -10              | 144             | 0.076596 |             |        |
|  | 0                | 135             | 0.071809 |             |        |
|  | 10               | 160             | 0.085106 |             |        |
|  | 20               | 140             | 0.074468 |             |        |
|  | 30               | 108             | 0.057447 |             |        |
|  | 40               | 117             | 0.062234 |             |        |
|  | 50               | 153             | 0.081383 |             |        |
| Reference Frequency: LTE Band 2(15MHz) Middle channel=18900 channel=1880.00MHz |                  |                 |          |             |        |
| Power supplied (Vdc)   | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|  |                  | Hz              | ppm      |             |        |
| 3.80   | -30              | 126             | 0.067021 | ±2.5        | Pass   |
|  | -20              | 160             | 0.085106 |             |        |
|  | -10              | 112             | 0.059574 |             |        |
|  | 0                | 110             | 0.058511 |             |        |
|  | 10               | 123             | 0.065426 |             |        |
|  | 20               | 115             | 0.061170 |             |        |
|  | 30               | 133             | 0.070745 |             |        |
|  | 40               | 136             | 0.072340 |             |        |
|  | 50               | 122             | 0.064894 |             |        |
| Reference Frequency: LTE Band 2(20MHz) Middle channel=18900 channel=1880.00MHz |                  |                 |          |             |        |
| Power supplied (Vdc)   | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|  |                  | Hz              | ppm      |             |        |
| 3.80   | -30              | 115             | 0.061170 | ±2.5        | Pass   |
|  | -20              | 161             | 0.085638 |             |        |
|  | -10              | 123             | 0.065426 |             |        |
|  | 0                | 133             | 0.070745 |             |        |
|  | 10               | 135             | 0.071809 |             |        |
|  | 20               | 136             | 0.072340 |             |        |
|  | 30               | 166             | 0.088298 |             |        |
|  | 40               | 171             | 0.090957 |             |        |
|  | 50               | 154             | 0.081915 |             |        |

**LTE Band 4(QPSK):**

| Reference Frequency: LTE Band 4(1.4MHz) Middle channel=20175 channel=1732.50MHz |                  |                 |          |             |        |
|---|------------------|-----------------|----------|-------------|--------|
| Power supplied (Vdc)  | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|   |                  | Hz              | ppm      |             |        |
| 3.80  | -30              | 197             | 0.113709 | ±2.5        | Pass   |
|   | -20              | 123             | 0.070996 |             |        |
|   | -10              | 131             | 0.075613 |             |        |
|   | 0                | 116             | 0.066955 |             |        |
|   | 10               | 181             | 0.104473 |             |        |
|   | 20               | 171             | 0.098701 |             |        |
|   | 30               | 188             | 0.108514 |             |        |
|   | 40               | 175             | 0.101010 |             |        |
|   | 50               | 174             | 0.100433 |             |        |
| Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz   |                  |                 |          |             |        |
| Power supplied (Vdc)  | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|   |                  | Hz              | ppm      |             |        |
| 3.80  | -30              | 178             | 0.102742 | ±2.5        | Pass   |
|   | -20              | 123             | 0.070996 |             |        |
|   | -10              | 132             | 0.076190 |             |        |
|   | 0                | 116             | 0.066955 |             |        |
|   | 10               | 171             | 0.098701 |             |        |
|   | 20               | 141             | 0.081385 |             |        |
|   | 30               | 105             | 0.060606 |             |        |
|   | 40               | 128             | 0.073882 |             |        |
|   | 50               | 135             | 0.077922 |             |        |
| Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz   |                  |                 |          |             |        |
| Power supplied (Vdc)  | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|   |                  | Hz              | ppm      |             |        |
| 3.80  | -30              | 144             | 0.083117 | ±2.5        | Pass   |
|   | -20              | 132             | 0.076190 |             |        |
|   | -10              | 136             | 0.078499 |             |        |
|   | 0                | 168             | 0.096970 |             |        |
|   | 10               | 114             | 0.065801 |             |        |
|   | 20               | 148             | 0.085426 |             |        |
|   | 30               | 101             | 0.058297 |             |        |
|   | 40               | 108             | 0.062338 |             |        |
|   | 50               | 158             | 0.091198 |             |        |

| Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz |                  |                 |          |             |        |
|--|------------------|-----------------|----------|-------------|--------|
| Power supplied (Vdc)   | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|  |                  | Hz              | ppm      |             |        |
| 3.80   | -30              | 136             | 0.078499 | ±2.5        | Pass   |
|  | -20              | 123             | 0.070996 |             |        |
|  | -10              | 133             | 0.076768 |             |        |
|  | 0                | 128             | 0.073882 |             |        |
|  | 10               | 161             | 0.092929 |             |        |
|  | 20               | 164             | 0.094661 |             |        |
|  | 30               | 140             | 0.080808 |             |        |
|  | 40               | 171             | 0.098701 |             |        |
|  | 50               | 140             | 0.080808 |             |        |
| Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz |                  |                 |          |             |        |
| Power supplied (Vdc)   | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|  |                  | Hz              | ppm      |             |        |
| 3.80   | -30              | 119             | 0.068687 | ±2.5        | Pass   |
|  | -20              | 123             | 0.070996 |             |        |
|  | -10              | 150             | 0.086580 |             |        |
|  | 0                | 126             | 0.072727 |             |        |
|  | 10               | 114             | 0.065801 |             |        |
|  | 20               | 148             | 0.085426 |             |        |
|  | 30               | 133             | 0.076768 |             |        |
|  | 40               | 130             | 0.075036 |             |        |
|  | 50               | 140             | 0.080808 |             |        |
| Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz |                  |                 |          |             |        |
| Power supplied (Vdc)   | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|  |                  | Hz              | ppm      |             |        |
| 3.80   | -30              | 198             | 0.114286 | ±2.5        | Pass   |
|  | -20              | 171             | 0.098701 |             |        |
|  | -10              | 175             | 0.101010 |             |        |
|  | 0                | 161             | 0.092929 |             |        |
|  | 10               | 131             | 0.075613 |             |        |
|  | 20               | 148             | 0.085426 |             |        |
|  | 30               | 138             | 0.079654 |             |        |
|  | 40               | 140             | 0.080808 |             |        |
|  | 50               | 124             | 0.071573 |             |        |

**LTE Band 4(16QAM):**

| Reference Frequency: LTE Band 4(1.4MHz) Middle channel=20175 channel=1732.50MHz |                  |                 |          |             |        |
|---|------------------|-----------------|----------|-------------|--------|
| Power supplied (Vdc)  | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|   |                  | Hz              | ppm      |             |        |
| 3.80  | -30              | 147             | 0.084848 | ±2.5        | Pass   |
|   | -20              | 152             | 0.087734 |             |        |
|   | -10              | 121             | 0.069841 |             |        |
|   | 0                | 153             | 0.088312 |             |        |
|   | 10               | 160             | 0.092352 |             |        |
|   | 20               | 154             | 0.088889 |             |        |
|   | 30               | 148             | 0.085426 |             |        |
|   | 40               | 107             | 0.061760 |             |        |
|   | 50               | 103             | 0.059452 |             |        |
| Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz   |                  |                 |          |             |        |
| Power supplied (Vdc)  | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|   |                  | Hz              | ppm      |             |        |
| 3.80  | -30              | 115             | 0.066378 | ±2.5        | Pass   |
|   | -20              | 142             | 0.081962 |             |        |
|   | -10              | 148             | 0.085426 |             |        |
|   | 0                | 160             | 0.092352 |             |        |
|   | 10               | 132             | 0.076190 |             |        |
|   | 20               | 116             | 0.066955 |             |        |
|   | 30               | 126             | 0.072727 |             |        |
|   | 40               | 128             | 0.073882 |             |        |
|   | 50               | 103             | 0.059452 |             |        |
| Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz   |                  |                 |          |             |        |
| Power supplied (Vdc)  | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|   |                  | Hz              | ppm      |             |        |
| 3.80  | -30              | 124             | 0.071573 | ±2.5        | Pass   |
|   | -20              | 164             | 0.094661 |             |        |
|   | -10              | 158             | 0.091198 |             |        |
|   | 0                | 160             | 0.092352 |             |        |
|   | 10               | 123             | 0.070996 |             |        |
|   | 20               | 131             | 0.075613 |             |        |
|   | 30               | 126             | 0.072727 |             |        |
|   | 40               | 130             | 0.075036 |             |        |
|   | 50               | 174             | 0.100433 |             |        |

| Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz |                  |                 |          |             |        |
|--|------------------|-----------------|----------|-------------|--------|
| Power supplied (Vdc)   | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|  |                  | Hz              | ppm      |             |        |
| 3.80   | -30              | 145             | 0.083694 | ±2.5        | Pass   |
|  | -20              | 123             | 0.070996 |             |        |
|  | -10              | 131             | 0.075613 |             |        |
|  | 0                | 144             | 0.083117 |             |        |
|  | 10               | 128             | 0.073882 |             |        |
|  | 20               | 126             | 0.072727 |             |        |
|  | 30               | 148             | 0.085426 |             |        |
|  | 40               | 107             | 0.061760 |             |        |
|  | 50               | 163             | 0.094084 |             |        |
| Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz |                  |                 |          |             |        |
| Power supplied (Vdc)   | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|  |                  | Hz              | ppm      |             |        |
| 3.80   | -30              | 157             | 0.090620 | ±2.5        | Pass   |
|  | -20              | 141             | 0.081385 |             |        |
|  | -10              | 162             | 0.093506 |             |        |
|  | 0                | 123             | 0.070996 |             |        |
|  | 10               | 132             | 0.076190 |             |        |
|  | 20               | 146             | 0.084271 |             |        |
|  | 30               | 140             | 0.080808 |             |        |
|  | 40               | 151             | 0.087157 |             |        |
|  | 50               | 154             | 0.088889 |             |        |
| Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz |                  |                 |          |             |        |
| Power supplied (Vdc)   | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|  |                  | Hz              | ppm      |             |        |
| 3.80   | -30              | 180             | 0.103896 | ±2.5        | Pass   |
|  | -20              | 162             | 0.093506 |             |        |
|  | -10              | 132             | 0.076190 |             |        |
|  | 0                | 135             | 0.077922 |             |        |
|  | 10               | 147             | 0.084848 |             |        |
|  | 20               | 140             | 0.080808 |             |        |
|  | 30               | 155             | 0.089466 |             |        |
|  | 40               | 150             | 0.086580 |             |        |
|  | 50               | 129             | 0.074459 |             |        |

**LTE Band 5(QPSK):**

| Reference Frequency: LTE Band 5(1.4MHz) Middle channel=20525Frequency=836.50MHz |                  |                 |          |             |        |
|---|------------------|-----------------|----------|-------------|--------|
| Power supplied (Vdc)  | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|   |                  | Hz              | ppm      |             |        |
| 3.80  | -30              | 197             | 0.235505 | ±2.5        | Pass   |
|   | -20              | 123             | 0.147041 |             |        |
|   | -10              | 144             | 0.172146 |             |        |
|   | 0                | 155             | 0.185296 |             |        |
|   | 10               | 165             | 0.197250 |             |        |
|   | 20               | 150             | 0.179319 |             |        |
|   | 30               | 143             | 0.170950 |             |        |
|   | 40               | 176             | 0.210400 |             |        |
|   | 50               | 187             | 0.223551 |             |        |
| Reference Frequency: LTE Band 5(3MHz) Middle channel=20525Frequency=836.50MHz   |                  |                 |          |             |        |
| Power supplied (Vdc)  | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|   |                  | Hz              | ppm      |             |        |
| 3.80  | -30              | 162             | 0.193664 | ±2.5        | Pass   |
|   | -20              | 123             | 0.147041 |             |        |
|   | -10              | 130             | 0.155409 |             |        |
|   | 0                | 125             | 0.149432 |             |        |
|   | 10               | 134             | 0.160191 |             |        |
|   | 20               | 161             | 0.192469 |             |        |
|   | 30               | 144             | 0.172146 |             |        |
|   | 40               | 148             | 0.176928 |             |        |
|   | 50               | 158             | 0.188882 |             |        |
| Reference Frequency: LTE Band 5(5MHz) Middle channel=20525Frequency=836.50MHz   |                  |                 |          |             |        |
| Power supplied (Vdc)  | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|   |                  | Hz              | ppm      |             |        |
| 3.80  | -30              | 129             | 0.154214 | ±2.5        | Pass   |
|   | -20              | 132             | 0.157800 |             |        |
|   | -10              | 133             | 0.158996 |             |        |
|   | 0                | 162             | 0.193664 |             |        |
|   | 10               | 128             | 0.153019 |             |        |
|   | 20               | 146             | 0.174537 |             |        |
|   | 30               | 148             | 0.176928 |             |        |
|   | 40               | 171             | 0.204423 |             |        |
|   | 50               | 164             | 0.196055 |             |        |
| Reference Frequency: LTE Band 5(10MHz) Middle channel=20525Frequency=836.50MHz  |                  |                 |          |             |        |
| Power supplied (Vdc)  | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|   |                  | Hz              | ppm      |             |        |
| 3.80  | -30              | 158             | 0.188882 | ±2.5        | Pass   |
|   | -20              | 123             | 0.147041 |             |        |
|   | -10              | 130             | 0.155409 |             |        |
|   | 0                | 159             | 0.190078 |             |        |
|   | 10               | 147             | 0.175732 |             |        |
|   | 20               | 161             | 0.192469 |             |        |
|   | 30               | 107             | 0.127914 |             |        |
|   | 40               | 143             | 0.170950 |             |        |
|   | 50               | 104             | 0.124328 |             |        |

**LTE Band 5(16QAM):**

| Reference Frequency: LTE Band 5(1.4MHz) Middle channel=20525Frequency=836.50MHz |                  |                 |          |             |        |
|---|------------------|-----------------|----------|-------------|--------|
| Power supplied (Vdc)  | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|   |                  | Hz              | ppm      |             |        |
| 3.80  | -30              | 167             | 0.199641 | ±2.5        | Pass   |
|   | -20              | 123             | 0.147041 |             |        |
|   | -10              | 131             | 0.156605 |             |        |
|   | 0                | 126             | 0.150628 |             |        |
|   | 10               | 160             | 0.191273 |             |        |
|   | 20               | 149             | 0.178123 |             |        |
|   | 30               | 148             | 0.176928 |             |        |
|   | 40               | 176             | 0.210400 |             |        |
|   | 50               | 107             | 0.127914 |             |        |
| Reference Frequency: LTE Band 5(3MHz) Middle channel=20525Frequency=836.50MHz   |                  |                 |          |             |        |
| Power supplied (Vdc)  | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|   |                  | Hz              | ppm      |             |        |
| 3.80  | -30              | 135             | 0.161387 | ±2.5        | Pass   |
|   | -20              | 162             | 0.193664 |             |        |
|   | -10              | 132             | 0.157800 |             |        |
|   | 0                | 139             | 0.166169 |             |        |
|   | 10               | 148             | 0.176928 |             |        |
|   | 20               | 145             | 0.173341 |             |        |
|   | 30               | 123             | 0.147041 |             |        |
|   | 40               | 120             | 0.143455 |             |        |
|   | 50               | 113             | 0.135087 |             |        |
| Reference Frequency: LTE Band 5(5MHz) Middle channel=20525Frequency=836.50MHz   |                  |                 |          |             |        |
| Power supplied (Vdc)  | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|   |                  | Hz              | ppm      |             |        |
| 3.80  | -30              | 178             | 0.212791 | 2.5         | Pass   |
|   | -20              | 141             | 0.168559 |             |        |
|   | -10              | 146             | 0.174537 |             |        |
|   | 0                | 178             | 0.212791 |             |        |
|   | 10               | 164             | 0.196055 |             |        |
|   | 20               | 133             | 0.158996 |             |        |
|   | 30               | 131             | 0.156605 |             |        |
|   | 40               | 123             | 0.147041 |             |        |
|   | 50               | 116             | 0.138673 |             |        |
| Reference Frequency: LTE Band 5(10MHz) Middle channel=20525Frequency=836.50MHz  |                  |                 |          |             |        |
| Power supplied (Vdc)  | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|   |                  | Hz              | ppm      |             |        |
| 3.80  | -30              | 157             | 0.187687 | 2.5         | Pass   |
|   | -20              | 123             | 0.147041 |             |        |
|   | -10              | 132             | 0.157800 |             |        |
|   | 0                | 126             | 0.150628 |             |        |
|   | 10               | 138             | 0.164973 |             |        |
|   | 20               | 144             | 0.172146 |             |        |
|   | 30               | 147             | 0.175732 |             |        |
|   | 40               | 169             | 0.202032 |             |        |
|   | 50               | 163             | 0.194860 |             |        |

**LTE Band 7(QPSK):**

| Reference Frequency: LTE Band 7(5MHz) Middle channel=21100 Frequency=2535.00MHz  |                  |                 |          |             |        |
|--|------------------|-----------------|----------|-------------|--------|
| Power supplied (Vdc)   | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|  |                  | Hz              | ppm      |             |        |
| 3.80   | -30              | 198             | 0.078107 | ±2.5        | Pass   |
|  | -20              | 123             | 0.048521 |             |        |
|  | -10              | 161             | 0.063511 |             |        |
|  | 0                | 193             | 0.076134 |             |        |
|  | 10               | 149             | 0.058777 |             |        |
|  | 20               | 171             | 0.067456 |             |        |
|  | 30               | 180             | 0.071006 |             |        |
|  | 40               | 113             | 0.044576 |             |        |
|  | 50               | 138             | 0.054438 |             |        |
| Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.00MHz |                  |                 |          |             |        |
| Power supplied (Vdc)   | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|  |                  | Hz              | ppm      |             |        |
| 3.80   | -30              | 157             | 0.061933 | ±2.5        | Pass   |
|  | -20              | 161             | 0.063511 |             |        |
|  | -10              | 123             | 0.048521 |             |        |
|  | 0                | 136             | 0.053649 |             |        |
|  | 10               | 168             | 0.066272 |             |        |
|  | 20               | 171             | 0.067456 |             |        |
|  | 30               | 180             | 0.071006 |             |        |
|  | 40               | 153             | 0.060355 |             |        |
|  | 50               | 176             | 0.069428 |             |        |
| Reference Frequency: LTE Band 7(15MHz) Middle channel=21100 Frequency=2535.00MHz |                  |                 |          |             |        |
| Power supplied (Vdc)   | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|  |                  | Hz              | ppm      |             |        |
| 3.80   | -30              | 128             | 0.050493 | ±2.5        | Pass   |
|  | -20              | 166             | 0.065483 |             |        |
|  | -10              | 168             | 0.066272 |             |        |
|  | 0                | 122             | 0.048126 |             |        |
|  | 10               | 146             | 0.057594 |             |        |
|  | 20               | 147             | 0.057988 |             |        |
|  | 30               | 101             | 0.039842 |             |        |
|  | 40               | 157             | 0.061933 |             |        |
|  | 50               | 155             | 0.061144 |             |        |
| Reference Frequency: LTE Band 7(20MHz) Middle channel=21100 Frequency=2535.00MHz |                  |                 |          |             |        |
| Power supplied (Vdc)   | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|  |                  | Hz              | ppm      |             |        |
| 3.80   | -30              | 199             | 0.078501 | ±2.5        | Pass   |
|  | -20              | 123             | 0.048521 |             |        |
|  | -10              | 171             | 0.067456 |             |        |
|  | 0                | 186             | 0.073373 |             |        |
|  | 10               | 161             | 0.063511 |             |        |
|  | 20               | 144             | 0.056805 |             |        |
|  | 30               | 159             | 0.062722 |             |        |
|  | 40               | 155             | 0.061144 |             |        |
|  | 50               | 107             | 0.042209 |             |        |



**LTE Band 7(16QAM):**

| Reference Frequency: LTE Band 7(5MHz) Middle channel=21100Frequency=2535.00MHz   |                  |                 |          |             |        |
|--|------------------|-----------------|----------|-------------|--------|
| Power supplied (Vdc)   | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|  |                  | Hz              | ppm      |             |        |
| 3.80   | -30              | 129             | 0.050888 | ±2.5        | Pass   |
|  | -20              | 155             | 0.061144 |             |        |
|  | -10              | 166             | 0.065483 |             |        |
|  | 0                | 161             | 0.063511 |             |        |
|  | 10               | 158             | 0.062327 |             |        |
|  | 20               | 134             | 0.052860 |             |        |
|  | 30               | 145             | 0.057199 |             |        |
|  | 40               | 111             | 0.043787 |             |        |
|  | 50               | 126             | 0.049704 |             |        |
| Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.00MHz |                  |                 |          |             |        |
| Power supplied (Vdc)   | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|  |                  | Hz              | ppm      |             |        |
| 3.80   | -30              | 177             | 0.069822 | ±2.5        | Pass   |
|  | -20              | 126             | 0.049704 |             |        |
|  | -10              | 136             | 0.053649 |             |        |
|  | 0                | 124             | 0.048915 |             |        |
|  | 10               | 138             | 0.054438 |             |        |
|  | 20               | 108             | 0.042604 |             |        |
|  | 30               | 177             | 0.069822 |             |        |
|  | 40               | 165             | 0.065089 |             |        |
|  | 50               | 163             | 0.064300 |             |        |
| Reference Frequency: LTE Band 7(15MHz) Middle channel=21100 Frequency=2535.00MHz |                  |                 |          |             |        |
| Power supplied (Vdc)   | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|  |                  | Hz              | ppm      |             |        |
| 3.80   | -30              | 153             | 0.060355 | 2.5         | Pass   |
|  | -20              | 121             | 0.047732 |             |        |
|  | -10              | 169             | 0.066667 |             |        |
|  | 0                | 171             | 0.067456 |             |        |
|  | 10               | 178             | 0.070217 |             |        |
|  | 20               | 157             | 0.061933 |             |        |
|  | 30               | 145             | 0.057199 |             |        |
|  | 40               | 146             | 0.057594 |             |        |
|  | 50               | 100             | 0.039448 |             |        |
| Reference Frequency: LTE Band 7(20MHz) Middle channel=21100 Frequency=2535.00MHz |                  |                 |          |             |        |
| Power supplied (Vdc)   | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|  |                  | Hz              | ppm      |             |        |
| 3.80   | -30              | 149             | 0.058777 | 2.5         | Pass   |
|  | -20              | 151             | 0.059566 |             |        |
|  | -10              | 146             | 0.057594 |             |        |
|  | 0                | 158             | 0.062327 |             |        |
|  | 10               | 125             | 0.049310 |             |        |
|  | 20               | 136             | 0.053649 |             |        |
|  | 30               | 104             | 0.041026 |             |        |
|  | 40               | 171             | 0.067456 |             |        |
|  | 50               | 146             | 0.057594 |             |        |

**LTE Band 17(QPSK):**

| Reference Frequency: LTE Band 17(5MHz) Middle channel=23790 channel=710.00MHz |                  |                 |          |             |        |
|---|------------------|-----------------|----------|-------------|--------|
| Power supplied (Vdc)  | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|   |                  | Hz              | ppm      |             |        |
| 3.80  | -30              | 196             | 0.276056 | ±2.5        | Pass   |
|   | -20              | 171             | 0.240845 |             |        |
|   | -10              | 180             | 0.253521 |             |        |
|   | 0                | 186             | 0.261972 |             |        |
|   | 10               | 173             | 0.243662 |             |        |
|   | 20               | 128             | 0.180282 |             |        |
|   | 30               | 136             | 0.191549 |             |        |
|   | 40               | 121             | 0.170423 |             |        |
|   | 50               | 147             | 0.207042 |             |        |

| Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 channel=710.00MHz |                  |                 |          |             |        |
|--|------------------|-----------------|----------|-------------|--------|
| Power supplied (Vdc)   | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|  |                  | Hz              | ppm      |             |        |
| 3.80   | -30              | 194             | 0.273239 | ±2.5        | Pass   |
|  | -20              | 141             | 0.198592 |             |        |
|  | -10              | 151             | 0.212676 |             |        |
|  | 0                | 168             | 0.236620 |             |        |
|  | 10               | 152             | 0.214085 |             |        |
|  | 20               | 149             | 0.209859 |             |        |
|  | 30               | 171             | 0.240845 |             |        |
|  | 40               | 183             | 0.257746 |             |        |
|  | 50               | 186             | 0.261972 |             |        |

**LTE Band 17(16QAM):**

| Reference Frequency: LTE Band 17(5MHz) Middle channel=23790 channel=710.00MHz |                  |                 |          |             |        |
|---|------------------|-----------------|----------|-------------|--------|
| Power supplied (Vdc)  | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|   |                  | Hz              | ppm      |             |        |
| 3.80  | -30              | 136             | 0.191549 | ±2.5        | Pass   |
|   | -20              | 141             | 0.198592 |             |        |
|   | -10              | 181             | 0.254930 |             |        |
|   | 0                | 123             | 0.173239 |             |        |
|   | 10               | 138             | 0.194366 |             |        |
|   | 20               | 171             | 0.240845 |             |        |
|   | 30               | 114             | 0.160563 |             |        |
|   | 40               | 169             | 0.238028 |             |        |
|   | 50               | 100             | 0.140845 |             |        |

| Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 channel=710.00MHz |                  |                 |          |             |        |
|--|------------------|-----------------|----------|-------------|--------|
| Power supplied (Vdc)   | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|  |                  | Hz              | ppm      |             |        |
| 3.80   | -30              | 106             | 0.149296 | ±2.5        | Pass   |
|  | -20              | 181             | 0.254930 |             |        |
|  | -10              | 141             | 0.198592 |             |        |
|  | 0                | 156             | 0.219718 |             |        |
|  | 10               | 153             | 0.215493 |             |        |
|  | 20               | 123             | 0.173239 |             |        |
|  | 30               | 168             | 0.236620 |             |        |
|  | 40               | 117             | 0.164789 |             |        |
|  | 50               | 176             | 0.247887 |             |        |

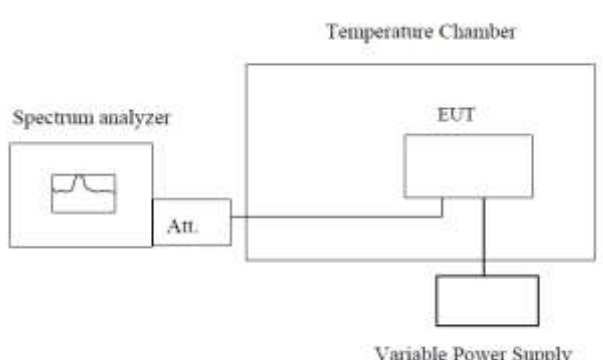
**LTE Band 41(QPSK):**

| Reference Frequency: LTE Band 41(5MHz) Middle channel=40620Frequency=2593.00MHz  |                  |                 |          |             |        |
|--|------------------|-----------------|----------|-------------|--------|
| Power supplied (Vdc)   | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|  |                  | Hz              | ppm      |             |        |
| 3.80   | -30              | 199             | 0.076745 | ±2.5        | Pass   |
|  | -20              | 141             | 0.054377 |             |        |
|  | -10              | 155             | 0.059776 |             |        |
|  | 0                | 165             | 0.063633 |             |        |
|  | 10               | 158             | 0.060933 |             |        |
|  | 20               | 147             | 0.056691 |             |        |
|  | 30               | 163             | 0.062862 |             |        |
|  | 40               | 175             | 0.067489 |             |        |
|  | 50               | 181             | 0.069803 |             |        |
| Reference Frequency: LTE Band 41(10MHz) Middle channel=40625Frequency=2593.00MHz |                  |                 |          |             |        |
| Power supplied (Vdc)   | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|  |                  | Hz              | ppm      |             |        |
| 3.80   | -30              | 112             | 0.043193 | ±2.5        | Pass   |
|  | -20              | 184             | 0.070960 |             |        |
|  | -10              | 176             | 0.067875 |             |        |
|  | 0                | 123             | 0.047435 |             |        |
|  | 10               | 180             | 0.069418 |             |        |
|  | 20               | 168             | 0.064790 |             |        |
|  | 30               | 169             | 0.065175 |             |        |
|  | 40               | 107             | 0.041265 |             |        |
|  | 50               | 129             | 0.049749 |             |        |
| Reference Frequency: LTE Band 41(15MHz) Middle channel=40620Frequency=2593.00MHz |                  |                 |          |             |        |
| Power supplied (Vdc)   | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|  |                  | Hz              | ppm      |             |        |
| 3.80   | -30              | 168             | 0.064790 | ±2.5        | Pass   |
|  | -20              | 123             | 0.047435 |             |        |
|  | -10              | 138             | 0.053220 |             |        |
|  | 0                | 129             | 0.049749 |             |        |
|  | 10               | 146             | 0.056305 |             |        |
|  | 20               | 150             | 0.057848 |             |        |
|  | 30               | 151             | 0.058234 |             |        |
|  | 40               | 103             | 0.039722 |             |        |
|  | 50               | 107             | 0.041265 |             |        |
| Reference Frequency: LTE Band 41(20MHz) Middle channel=40620Frequency=2593.00MHz |                  |                 |          |             |        |
| Power supplied (Vdc)   | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|  |                  | Hz              | ppm      |             |        |
| 3.80   | -30              | 199             | 0.076745 | ±2.5        | Pass   |
|  | -20              | 123             | 0.047435 |             |        |
|  | -10              | 135             | 0.052063 |             |        |
|  | 0                | 126             | 0.048592 |             |        |
|  | 10               | 131             | 0.050521 |             |        |
|  | 20               | 144             | 0.055534 |             |        |
|  | 30               | 180             | 0.069418 |             |        |
|  | 40               | 177             | 0.068261 |             |        |
|  | 50               | 163             | 0.062862 |             |        |

**LTE Band 41(16QAM):**

| Reference Frequency: LTE Band 41(5MHz) Middle channel=40620Frequency=2593.00MHz  |                  |                 |          |             |        |
|--|------------------|-----------------|----------|-------------|--------|
| Power supplied (Vdc)   | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|  |                  | Hz              | ppm      |             |        |
| 3.80   | -30              | 157             | 0.060548 | ±2.5        | Pass   |
|  | -20              | 123             | 0.047435 |             |        |
|  | -10              | 136             | 0.052449 |             |        |
|  | 0                | 144             | 0.055534 |             |        |
|  | 10               | 178             | 0.068646 |             |        |
|  | 20               | 106             | 0.040879 |             |        |
|  | 30               | 160             | 0.061705 |             |        |
|  | 40               | 161             | 0.062090 |             |        |
|  | 50               | 147             | 0.056691 |             |        |
| Reference Frequency: LTE Band 41(10MHz) Middle channel=40625Frequency=2593.00MHz |                  |                 |          |             |        |
| Power supplied (Vdc)   | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|  |                  | Hz              | ppm      |             |        |
| 3.80   | -30              | 143             | 0.055148 | ±2.5        | Pass   |
|  | -20              | 151             | 0.058234 |             |        |
|  | -10              | 123             | 0.047435 |             |        |
|  | 0                | 132             | 0.050906 |             |        |
|  | 10               | 155             | 0.059776 |             |        |
|  | 20               | 141             | 0.054377 |             |        |
|  | 30               | 107             | 0.041265 |             |        |
|  | 40               | 105             | 0.040494 |             |        |
|  | 50               | 116             | 0.044736 |             |        |
| Reference Frequency: LTE Band 41(15MHz) Middle channel=40620Frequency=2593.00MHz |                  |                 |          |             |        |
| Power supplied (Vdc)   | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|  |                  | Hz              | ppm      |             |        |
| 3.80   | -30              | 129             | 0.049749 | 2.5         | Pass   |
|  | -20              | 131             | 0.050521 |             |        |
|  | -10              | 147             | 0.056691 |             |        |
|  | 0                | 151             | 0.058234 |             |        |
|  | 10               | 155             | 0.059776 |             |        |
|  | 20               | 160             | 0.061705 |             |        |
|  | 30               | 143             | 0.055148 |             |        |
|  | 40               | 107             | 0.041265 |             |        |
|  | 50               | 117             | 0.045121 |             |        |
| Reference Frequency: LTE Band 41(20MHz) Middle channel=40620Frequency=2593.00MHz |                  |                 |          |             |        |
| Power supplied (Vdc)   | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|  |                  | Hz              | ppm      |             |        |
| 3.80   | -30              | 163             | 0.062862 | 2.5         | Pass   |
|  | -20              | 169             | 0.065175 |             |        |
|  | -10              | 144             | 0.055534 |             |        |
|  | 0                | 151             | 0.058234 |             |        |
|  | 10               | 154             | 0.059391 |             |        |
|  | 20               | 171             | 0.065947 |             |        |
|  | 30               | 176             | 0.067875 |             |        |
|  | 40               | 106             | 0.040879 |             |        |
|  | 50               | 102             | 0.039337 |             |        |

## 6.13 Frequency stability V.S. Voltage measurement

|                   |  |
|-------------------|--|
| Test Requirement: | FCC Part2.1055(d)(1)(2)  |
| Test Method:      | FCC Part2.1055(d)(1)(2)  |
| Limit:            | 2.5ppm   |
| Test setup:       |  <p><b>Note :</b> Measurement setup for testing on Antenna connector</p>   |
| Test procedure:   | <ol style="list-style-type: none"> <li>1. Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage.</li> <li>2. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.</li> <li>3. Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.</li> </ol> |
| Test Instruments: | Refer to section 5.8 for details   |
| Test mode:        | Refer to section 5.3 for details, and all channels have been tested, only shows the worst channel data in this report.   |
| Test results:     | Passed   |

**Measurement Data (the worst channel):**
**LTE Band 2(QPSK):**

| Reference Frequency: LTE Band 2(1.4MHz) Middle channel=18900 channel=1880.00MHz |                      |                 |          |             |        |
|---|----------------------|-----------------|----------|-------------|--------|
| Temperature (°C)  | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|   |                      | Hz              | ppm      |             |        |
| 25  | 4.37                 | 99              | 0.052660 | ±2.5        | Pass   |
|   | 3.80                 | 85              | 0.045213 |             |        |
|   | 3.23                 | 63              | 0.033511 |             |        |
| Reference Frequency: LTE Band 2(3MHz) Middle channel=18900 channel=1880.00MHz   |                      |                 |          |             |        |
| Temperature (°C)  | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|   |                      | Hz              | ppm      |             |        |
| 25  | 4.37                 | 82              | 0.043617 | ±2.5        | Pass   |
|   | 3.80                 | 74              | 0.039362 |             |        |
|   | 3.23                 | 98              | 0.052128 |             |        |
| Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz   |                      |                 |          |             |        |
| Temperature (°C)  | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|   |                      | Hz              | ppm      |             |        |
| 25  | 4.37                 | 93              | 0.049468 | ±2.5        | Pass   |
|   | 3.80                 | 85              | 0.045213 |             |        |
|   | 3.23                 | 64              | 0.034043 |             |        |
| Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz  |                      |                 |          |             |        |
| Temperature (°C)  | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|   |                      | Hz              | ppm      |             |        |
| 25  | 4.37                 | 77              | 0.040957 | ±2.5        | Pass   |
|   | 3.80                 | 84              | 0.044681 |             |        |
|   | 3.23                 | 96              | 0.051064 |             |        |
| Reference Frequency: LTE Band 2(15MHz) Middle channel=18900 channel=1880.00MHz  |                      |                 |          |             |        |
| Temperature (°C)  | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|   |                      | Hz              | ppm      |             |        |
| 25  | 4.37                 | 81              | 0.043085 | ±2.5        | Pass   |
|   | 3.80                 | 72              | 0.038298 |             |        |
|   | 3.23                 | 89              | 0.047340 |             |        |
| Reference Frequency: LTE Band 2(20MHz) Middle channel=20175 channel=1880.00MHz  |                      |                 |          |             |        |
| Temperature (°C)  | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|   |                      | Hz              | ppm      |             |        |
| 25  | 4.37                 | 69              | 0.036702 | ±2.5        | Pass   |
|   | 3.80                 | 90              | 0.047872 |             |        |
|   | 3.23                 | 82              | 0.043617 |             |        |

**LTE Band 2(16QAM):**

| Reference Frequency: LTE Band 2(1.4MHz) Middle channel=18900 channel=1880.00MHz |                      |                 |          |             |        |
|---|----------------------|-----------------|----------|-------------|--------|
| Temperature (°C)  | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|   |                      | Hz              | ppm      |             |        |
| 25  | 4.37                 | 78              | 0.041489 | ±2.5        | Pass   |
|   | 3.80                 | 94              | 0.050000 |             |        |
|   | 3.23                 | 81              | 0.043085 |             |        |
| Reference Frequency: LTE Band 2(3MHz) Middle channel=18900 channel=1880.00MHz   |                      |                 |          |             |        |
| Temperature (°C)  | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|   |                      | Hz              | ppm      |             |        |
| 25  | 4.37                 | 93              | 0.049468 | ±2.5        | Pass   |
|   | 3.80                 | 86              | 0.045745 |             |        |
|   | 3.23                 | 81              | 0.043085 |             |        |
| Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz   |                      |                 |          |             |        |
| Temperature (°C)  | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|   |                      | Hz              | ppm      |             |        |
| 25  | 4.37                 | 93              | 0.049468 | ±2.5        | Pass   |
|   | 3.80                 | 75              | 0.039894 |             |        |
|   | 3.23                 | 81              | 0.043085 |             |        |
| Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz   |                      |                 |          |             |        |
| Temperature (°C)  | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|   |                      | Hz              | ppm      |             |        |
| 25  | 4.37                 | 85              | 0.045213 | ±2.5        | Pass   |
|   | 3.80                 | 42              | 0.022340 |             |        |
|   | 3.23                 | 63              | 0.033511 |             |        |
| Reference Frequency: LTE Band 2(15MHz) Middle channel=18900 channel=1880.00MHz  |                      |                 |          |             |        |
| Temperature (°C)  | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|   |                      | Hz              | ppm      |             |        |
| 25  | 4.37                 | 99              | 0.052660 | ±2.5        | Pass   |
|   | 3.80                 | 82              | 0.043617 |             |        |
|   | 3.23                 | 76              | 0.040426 |             |        |
| Reference Frequency: LTE Band 2(20MHz) Middle channel=18900 channel=1880.00MHz  |                      |                 |          |             |        |
| Temperature (°C)  | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|   |                      | Hz              | ppm      |             |        |
| 25  | 4.37                 | 45              | 0.023936 | ±2.5        | Pass   |
|   | 3.80                 | 87              | 0.046277 |             |        |
|   | 3.23                 | 96              | 0.051064 |             |        |

**LTE Band 4(QPSK):**

| Reference Frequency: LTE Band 4(1.4MHz) Middle channel=20175 channel=1732.50MHz |                      |                 |          |             |        |
|---|----------------------|-----------------|----------|-------------|--------|
| Temperature (°C)  | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|   |                      | Hz              | ppm      |             |        |
| 25  | 4.37                 | 85              | 0.049062 | ±2.5        | Pass   |
|   | 3.80                 | 93              | 0.053680 |             |        |
|   | 3.23                 | 64              | 0.036941 |             |        |
| Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz   |                      |                 |          |             |        |
| Temperature (°C)  | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|   |                      | Hz              | ppm      |             |        |
| 25  | 4.37                 | 90              | 0.051948 | ±2.5        | Pass   |
|   | 3.80                 | 99              | 0.057143 |             |        |
|   | 3.23                 | 85              | 0.049062 |             |        |
| Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz   |                      |                 |          |             |        |
| Temperature (°C)  | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|   |                      | Hz              | ppm      |             |        |
| 25  | 4.37                 | 96              | 0.055411 | ±2.5        | Pass   |
|   | 3.80                 | 85              | 0.049062 |             |        |
|   | 3.23                 | 74              | 0.042713 |             |        |
| Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz  |                      |                 |          |             |        |
| Temperature (°C)  | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|   |                      | Hz              | ppm      |             |        |
| 25  | 4.37                 | 95              | 0.054834 | ±2.5        | Pass   |
|   | 3.80                 | 91              | 0.052525 |             |        |
|   | 3.23                 | 81              | 0.046753 |             |        |
| Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz  |                      |                 |          |             |        |
| Temperature (°C)  | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|   |                      | Hz              | ppm      |             |        |
| 25  | 4.37                 | 77              | 0.044444 | ±2.5        | Pass   |
|   | 3.80                 | 84              | 0.048485 |             |        |
|   | 3.23                 | 68              | 0.039250 |             |        |
| Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz  |                      |                 |          |             |        |
| Temperature (°C)  | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|   |                      | Hz              | ppm      |             |        |
| 25  | 4.37                 | 96              | 0.055411 | ±2.5        | Pass   |
|   | 3.80                 | 58              | 0.033478 |             |        |
|   | 3.23                 | 74              | 0.042713 |             |        |



**LTE Band 4(16QAM):**

| Reference Frequency: LTE Band 4(1.4MHz) Middle channel=20175 channel=1732.50MHz |                      |                 |          |             |        |
|---|----------------------|-----------------|----------|-------------|--------|
| Temperature (°C)  | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|   |                      | Hz              | ppm      |             |        |
| 25  | 4.37                 | 90              | 0.051948 | ±2.5        | Pass   |
|   | 3.80                 | 68              | 0.039250 |             |        |
|   | 3.23                 | 78              | 0.045022 |             |        |
| Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz   |                      |                 |          |             |        |
| Temperature (°C)  | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|   |                      | Hz              | ppm      |             |        |
| 25  | 4.37                 | 66              | 0.038095 | ±2.5        | Pass   |
|   | 3.80                 | 84              | 0.048485 |             |        |
|   | 3.23                 | 52              | 0.030014 |             |        |
| Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz   |                      |                 |          |             |        |
| Temperature (°C)  | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|   |                      | Hz              | ppm      |             |        |
| 25  | 4.37                 | 99              | 0.057143 | ±2.5        | Pass   |
|   | 3.80                 | 85              | 0.049062 |             |        |
|   | 3.23                 | 78              | 0.045022 |             |        |
| Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz  |                      |                 |          |             |        |
| Temperature (°C)  | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|   |                      | Hz              | ppm      |             |        |
| 25  | 4.37                 | 99              | 0.057143 | ±2.5        | Pass   |
|   | 3.80                 | 65              | 0.037518 |             |        |
|   | 3.23                 | 87              | 0.050216 |             |        |
| Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz  |                      |                 |          |             |        |
| Temperature (°C)  | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|   |                      | Hz              | ppm      |             |        |
| 25  | 4.37                 | 85              | 0.049062 | ±2.5        | Pass   |
|   | 3.80                 | 94              | 0.054257 |             |        |
|   | 3.23                 | 83              | 0.047908 |             |        |
| Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz  |                      |                 |          |             |        |
| Temperature (°C)  | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|   |                      | Hz              | ppm      |             |        |
| 25  | 4.37                 | 69              | 0.039827 | ±2.5        | Pass   |
|   | 3.80                 | 84              | 0.048485 |             |        |
|   | 3.23                 | 74              | 0.042713 |             |        |

**LTE Band 5(QPSK):**

| Reference Frequency: LTE Band 5(1.4MHz) Middle channel=20525Frequency=836.50MHz |                      |                 |          |             |        |
|---|----------------------|-----------------|----------|-------------|--------|
| Temperature (°C)  | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|   |                      | Hz              | ppm      |             |        |
| 25  | 4.37                 | 78              | 0.093246 | ±2.5        | Pass   |
|   | 3.80                 | 94              | 0.112373 |             |        |
|   | 3.23                 | 85              | 0.101614 |             |        |
| Reference Frequency: LTE Band 5(3MHz) Middle channel=20525Frequency=836.50MHz   |                      |                 |          |             |        |
| Temperature (°C)  | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|   |                      | Hz              | ppm      |             |        |
| 25  | 4.37                 | 88              | 0.105200 | ±2.5        | Pass   |
|   | 3.80                 | 74              | 0.088464 |             |        |
|   | 3.23                 | 90              | 0.107591 |             |        |
| Reference Frequency: LTE Band 5(5MHz) Middle channel=20525Frequency=836.50MHz   |                      |                 |          |             |        |
| Temperature (°C)  | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|   |                      | Hz              | ppm      |             |        |
| 25  | 4.37                 | 85              | 0.101614 | ±2.5        | Pass   |
|   | 3.80                 | 90              | 0.107591 |             |        |
|   | 3.23                 | 64              | 0.076509 |             |        |
| Reference Frequency: LTE Band5(10MHz) Middle channel=20525Frequency=836.50MHz   |                      |                 |          |             |        |
| Temperature (°C)  | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|   |                      | Hz              | ppm      |             |        |
| 25  | 4.37                 | 96              | 0.114764 | ±2.5        | Pass   |
|   | 3.80                 | 85              | 0.101614 |             |        |
|   | 3.23                 | 74              | 0.088464 |             |        |

**LTE Band 5(16QAM):**

| Reference Frequency: LTE Band 5(1.4MHz) Middle channel=20525Frequency=836.50MHz |                      |                 |          |             |        |
|---|----------------------|-----------------|----------|-------------|--------|
| Temperature (°C)  | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|   |                      | Hz              | ppm      |             |        |
| 25  | 4.37                 | 56              | 0.066946 | ±2.5        | Pass   |
|   | 3.80                 | 87              | 0.104005 |             |        |
|   | 3.23                 | 94              | 0.112373 |             |        |
| Reference Frequency: LTE Band 5(3MHz) Middle channel=20525Frequency=836.50MHz   |                      |                 |          |             |        |
| Temperature (°C)  | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|   |                      | Hz              | ppm      |             |        |
| 25  | 4.37                 | 99              | 0.118350 | ±2.5        | Pass   |
|   | 3.80                 | 78              | 0.093246 |             |        |
|   | 3.23                 | 80              | 0.095637 |             |        |
| Reference Frequency: LTE Band 5(5MHz) Middle channel=20525Frequency=836.50MHz   |                      |                 |          |             |        |
| Temperature (°C)  | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|   |                      | Hz              | ppm      |             |        |
| 25  | 4.37                 | 93              | 0.111178 | ±2.5        | Pass   |
|   | 3.80                 | 64              | 0.076509 |             |        |
|   | 3.23                 | 82              | 0.098027 |             |        |
| Reference Frequency: LTE Band 5(10MHz) Middle channel=20525Frequency=836.50MHz  |                      |                 |          |             |        |
| Temperature (°C)  | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|   |                      | Hz              | ppm      |             |        |
| 25  | 4.37                 | 78              | 0.093246 | ±2.5        | Pass   |
|   | 3.80                 | 94              | 0.112373 |             |        |
|   | 3.23                 | 80              | 0.095637 |             |        |

**LTE Band 7(QPSK):**

| Reference Frequency: LTE Band 7(5MHz) Middle channel=21100 Frequency=2535.00MHz  |                      |                 |          |             |        |
|--|----------------------|-----------------|----------|-------------|--------|
| Temperature (°C)   | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|  |                      | Hz              | ppm      |             |        |
| 25   | 4.37                 | 85              | 0.033531 | ±2.5        | Pass   |
|  | 3.80                 | 96              | 0.037870 |             |        |
|  | 3.23                 | 88              | 0.034714 |             |        |
| Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.00MHz |                      |                 |          |             |        |
| Temperature (°C)   | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|  |                      | Hz              | ppm      |             |        |
| 25   | 4.37                 | 74              | 0.029191 | ±2.5        | Pass   |
|  | 3.80                 | 81              | 0.031953 |             |        |
|  | 3.23                 | 96              | 0.037870 |             |        |
| Reference Frequency: LTE Band 7(15MHz) Middle channel=21100 Frequency=2535.00MHz |                      |                 |          |             |        |
| Temperature (°C)   | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|  |                      | Hz              | ppm      |             |        |
| 25   | 4.37                 | 88              | 0.034714 | ±2.5        | Pass   |
|  | 3.80                 | 75              | 0.029586 |             |        |
|  | 3.23                 | 64              | 0.025247 |             |        |
| Reference Frequency: LTE Band 7(20MHz) Middle channel=21100 Frequency=2535.00MHz |                      |                 |          |             |        |
| Temperature (°C)   | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|  |                      | Hz              | ppm      |             |        |
| 25   | 4.37                 | 84              | 0.033136 | ±2.5        | Pass   |
|  | 3.80                 | 90              | 0.035503 |             |        |
|  | 3.23                 | 74              | 0.029191 |             |        |

**LTE Band 7(16QAM):**

| Reference Frequency: LTE Band 7(5MHz) Middle channel=21100 Frequency=2535.00MHz  |                      |                 |          |             |        |
|--|----------------------|-----------------|----------|-------------|--------|
| Temperature (°C)   | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|  |                      | Hz              | ppm      |             |        |
| 25   | 4.37                 | 95              | 0.037475 | ±2.5        | Pass   |
|  | 3.80                 | 63              | 0.024852 |             |        |
|  | 3.23                 | 48              | 0.018935 |             |        |
| Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.00MHz |                      |                 |          |             |        |
| Temperature (°C)   | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|  |                      | Hz              | ppm      |             |        |
| 25   | 4.37                 | 99              | 0.039053 | ±2.5        | Pass   |
|  | 3.80                 | 85              | 0.033531 |             |        |
|  | 3.23                 | 64              | 0.025247 |             |        |
| Reference Frequency: LTE Band 7(15MHz) Middle channel=21100 Frequency=2535.00MHz |                      |                 |          |             |        |
| Temperature (°C)   | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|  |                      | Hz              | ppm      |             |        |
| 25   | 4.37                 | 58              | 0.022880 | ±2.5        | Pass   |
|  | 3.80                 | 74              | 0.029191 |             |        |
|  | 3.23                 | 90              | 0.035503 |             |        |
| Reference Frequency: LTE Band 7(20MHz) Middle channel=21100 Frequency=2535.00MHz |                      |                 |          |             |        |
| Temperature (°C)   | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|  |                      | Hz              | ppm      |             |        |
| 25   | 4.37                 | 69              | 0.027219 | ±2.5        | Pass   |
|  | 3.80                 | 87              | 0.034320 |             |        |
|  | 3.23                 | 90              | 0.035503 |             |        |

**LTE Band 17(QPSK):**

| Reference Frequency: LTE Band 17(5MHz) Middle channel=23790 channel=710.00MHz  |                      |                 |          |             |        |
|--|----------------------|-----------------|----------|-------------|--------|
| Temperature (°C)   | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|  |                      | Hz              | ppm      |             |        |
| 25   | 4.37                 | 93              | 0.130986 | ±2.5        | Pass   |
|  | 3.80                 | 90              | 0.126761 |             |        |
|  | 3.23                 | 65              | 0.091549 |             |        |
| Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 channel=710.00MHz |                      |                 |          |             |        |
| Temperature (°C)   | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|  |                      | Hz              | ppm      |             |        |
| 25   | 4.37                 | 84              | 0.118310 | ±2.5        | Pass   |
|  | 3.80                 | 75              | 0.105634 |             |        |
|  | 3.23                 | 98              | 0.138028 |             |        |

**LTE Band 17(16QAM):**

| Reference Frequency: LTE Band 17(5MHz) Middle channel=23790 channel=710.00MHz  |                      |                 |          |             |        |
|--|----------------------|-----------------|----------|-------------|--------|
| Temperature (°C)   | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|  |                      | Hz              | ppm      |             |        |
| 25   | 4.37                 | 85              | 0.119718 | ±2.5        | Pass   |
|  | 3.80                 | 74              | 0.104225 |             |        |
|  | 3.23                 | 99              | 0.139437 |             |        |
| Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 channel=710.00MHz |                      |                 |          |             |        |
| Temperature (°C)   | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|  |                      | Hz              | ppm      |             |        |
| 25   | 4.37                 | 69              | 0.097183 | ±2.5        | Pass   |
|  | 3.80                 | 92              | 0.129577 |             |        |
|  | 3.23                 | 74              | 0.104225 |             |        |

**LTE Band 41 (QPSK):**

| Reference Frequency: LTE Band 41(5MHz) Middle channel=40620Frequency=2593.00MHz  |                      |                 |          |             |        |
|--|----------------------|-----------------|----------|-------------|--------|
| Temperature (°C)   | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|  |                      | Hz              | ppm      |             |        |
| 25   | 4.37                 | 95              | 0.036637 | ±2.5        | Pass   |
|  | 3.80                 | 85              | 0.032781 |             |        |
|  | 3.23                 | 74              | 0.028538 |             |        |
| Reference Frequency: LTE Band 41(10MHz) Middle channel=40625Frequency=2593.00MHz |                      |                 |          |             |        |
| Temperature (°C)   | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|  |                      | Hz              | ppm      |             |        |
| 25   | 4.37                 | 88              | 0.033938 | ±2.5        | Pass   |
|  | 3.80                 | 86              | 0.033166 |             |        |
|  | 3.23                 | 91              | 0.035094 |             |        |
| Reference Frequency: LTE Band 41(15MHz) Middle channel=40620Frequency=2593.00MHz |                      |                 |          |             |        |
| Temperature (°C)   | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|  |                      | Hz              | ppm      |             |        |
| 25   | 4.37                 | 95              | 0.036637 | ±2.5        | Pass   |
|  | 3.80                 | 64              | 0.024682 |             |        |
|  | 3.23                 | 72              | 0.027767 |             |        |
| Reference Frequency: LTE Band 41(20MHz) Middle channel=40620Frequency=2593.00MHz |                      |                 |          |             |        |
| Temperature (°C)   | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|  |                      | Hz              | ppm      |             |        |
| 25   | 4.37                 | 99              | 0.038180 | ±2.5        | Pass   |
|  | 3.80                 | 63              | 0.024296 |             |        |
|  | 3.23                 | 74              | 0.028538 |             |        |

**LTE Band 12(16QAM):**

| Reference Frequency: LTE Band 41(5MHz) Middle channel=40620Frequency=2593.00MHz  |                      |                 |          |             |        |
|--|----------------------|-----------------|----------|-------------|--------|
| Temperature (°C)   | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|  |                      | Hz              | ppm      |             |        |
| 25   | 4.37                 | 96              | 0.037023 | ±2.5        | Pass   |
|  | 3.80                 | 34              | 0.013112 |             |        |
|  | 3.23                 | 48              | 0.018511 |             |        |
| Reference Frequency: LTE Band 41(10MHz) Middle channel=40625Frequency=2593.00MHz |                      |                 |          |             |        |
| Temperature (°C)   | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|  |                      | Hz              | ppm      |             |        |
| 25   | 4.37                 | 88              | 0.033938 | ±2.5        | Pass   |
|  | 3.80                 | 64              | 0.024682 |             |        |
|  | 3.23                 | 71              | 0.027381 |             |        |
| Reference Frequency: LTE Band 41(15MHz) Middle channel=40620Frequency=2593.00MHz |                      |                 |          |             |        |
| Temperature (°C)   | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|  |                      | Hz              | ppm      |             |        |
| 25   | 4.37                 | 56              | 0.021597 | ±2.5        | Pass   |
|  | 3.80                 | 64              | 0.024682 |             |        |
|  | 3.23                 | 71              | 0.027381 |             |        |
| Reference Frequency: LTE Band 41(20MHz) Middle channel=40620Frequency=2593.00MHz |                      |                 |          |             |        |
| Temperature (°C)   | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|  |                      | Hz              | ppm      |             |        |
| 25   | 4.37                 | 99              | 0.038180 | ±2.5        | Pass   |
|  | 3.80                 | 63              | 0.024296 |             |        |
|  | 3.23                 | 74              | 0.028538 |             |        |