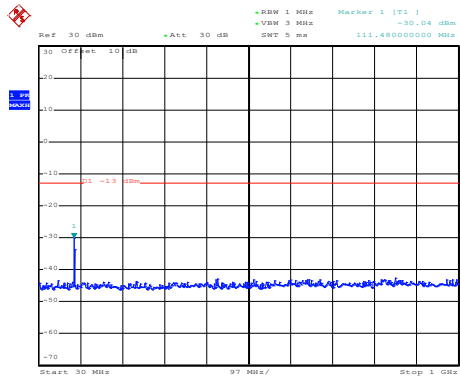
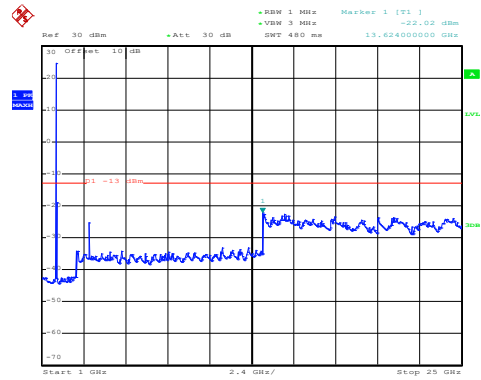


## LTE Band 2: QPSK & RB Size 1 BW: 20MHz Lowest channel



Date: 12.MAR.2021 11:39:51

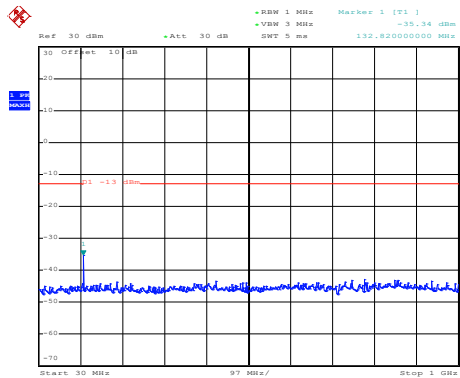
30MHz~1GHz



Date: 12.MAR.2021 11:39:29

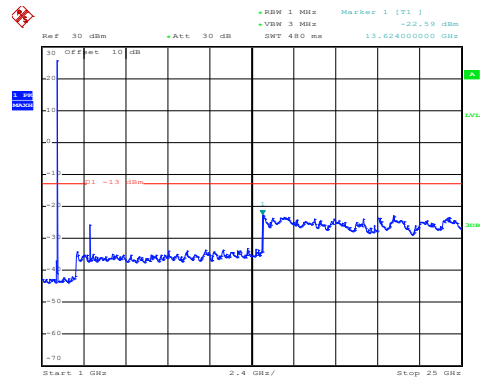
1GHz~25GHz

## Middle channel



Date: 12.MAR.2021 11:40:08

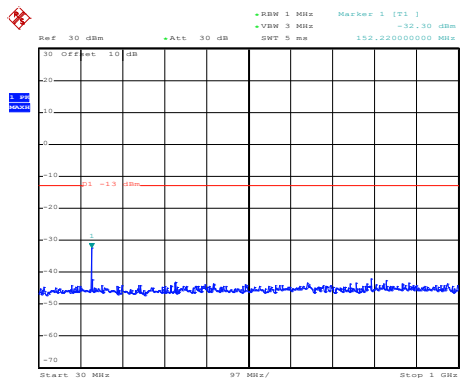
30MHz~1GHz



Date: 12.MAR.2021 11:39:15

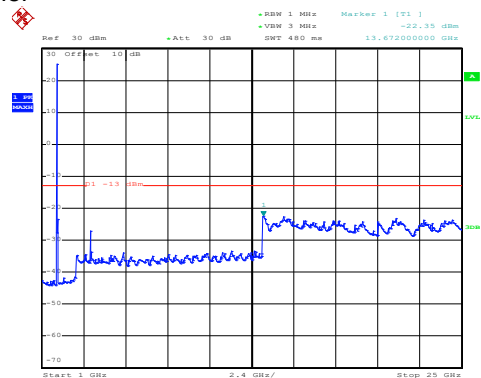
1GHz~25GHz

## High channel



Date: 12.MAR.2021 11:40:19

30MHz~1GHz

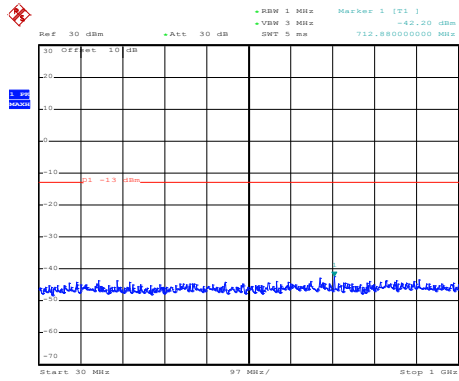


Date: 12.MAR.2021 11:38:57

1GHz~25GHz

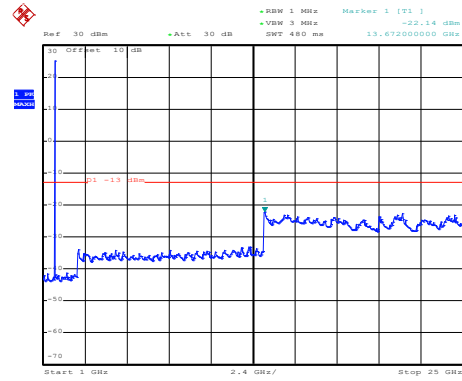
LTE Band 4 part:

LTE Band 4: 16 QAM & RB Size 1  
 BW: 1.4MHz  
 Lowest channel



Date: 12.MAR.2021 11:36:06

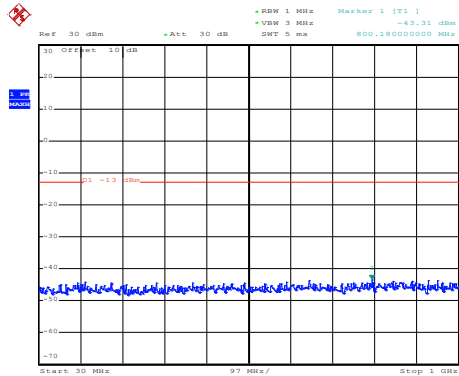
30MHz~1GHz



Date: 12.MAR.2021 11:37:39

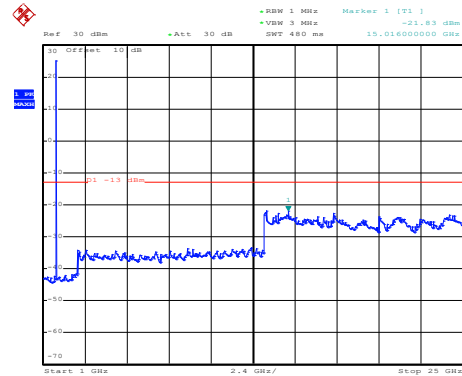
1GHz~25GHz

Middle channel



Date: 12.MAR.2021 11:36:17

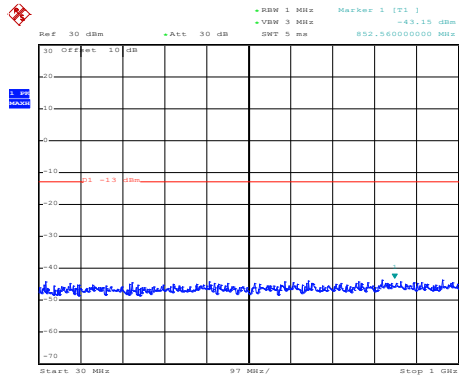
30MHz~1GHz



Date: 12.MAR.2021 11:37:16

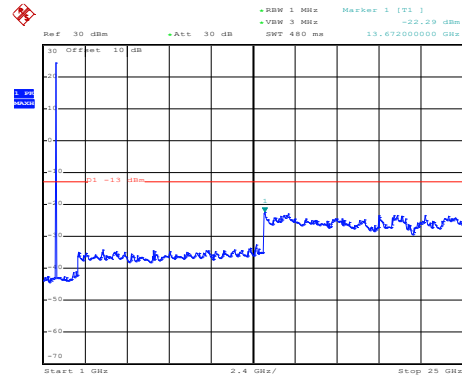
1GHz~25GHz

High channel



Date: 12.MAR.2021 11:36:29

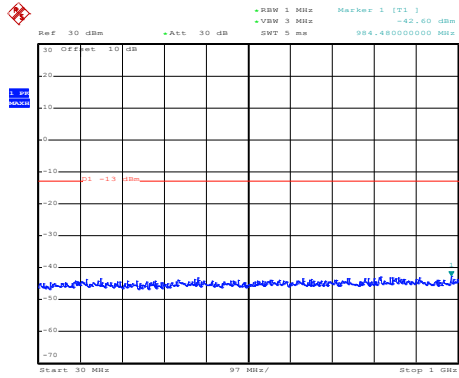
30MHz~1GHz



Date: 12.MAR.2021 11:36:54

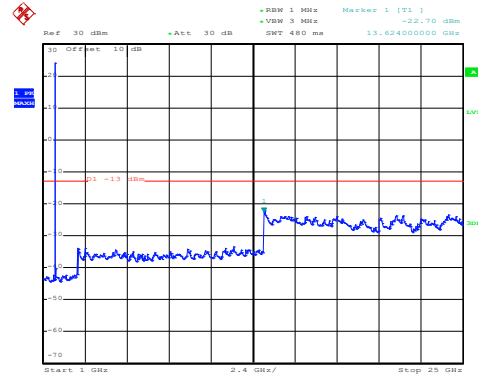
1GHz~25GHz

## LTE Band 4: QPSK & RB Size 1 BW: 1.4MHz Lowest channel



Date: 12.MAR.2021 11:36:02

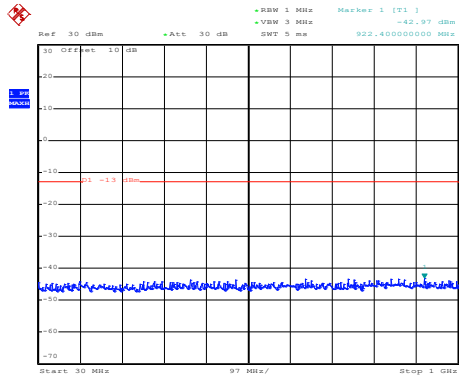
30MHz~1GHz



Date: 12.MAR.2021 11:37:29

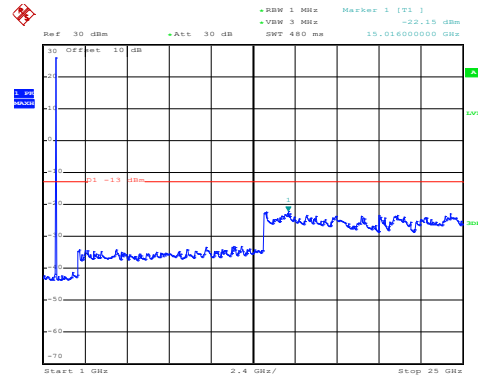
1GHz~25GHz

## Middle channel



Date: 12.MAR.2021 11:36:13

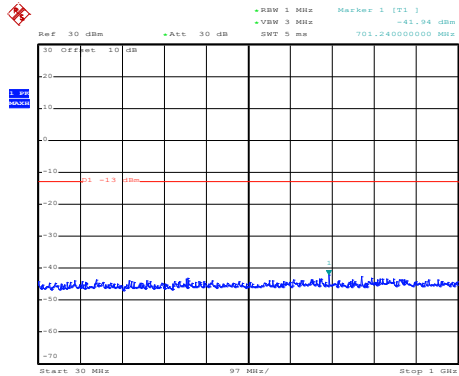
30MHz~1GHz



Date: 12.MAR.2021 11:37:06

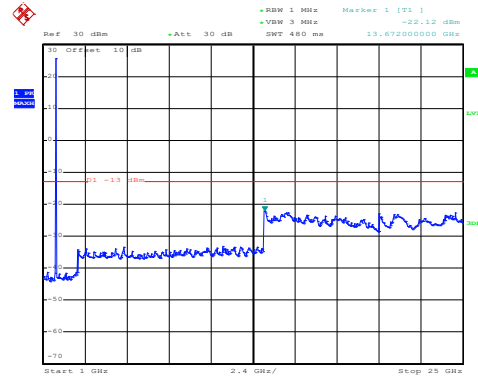
1GHz~25GHz

## High channel



Date: 12.MAR.2021 11:36:26

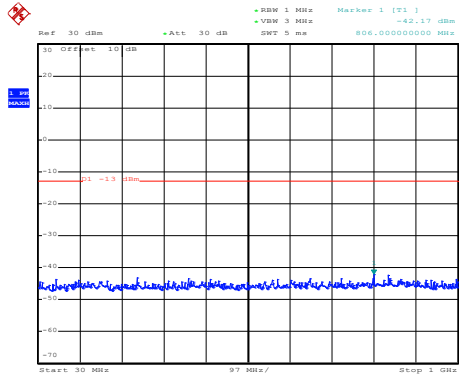
30MHz~1GHz



Date: 12.MAR.2021 11:36:45

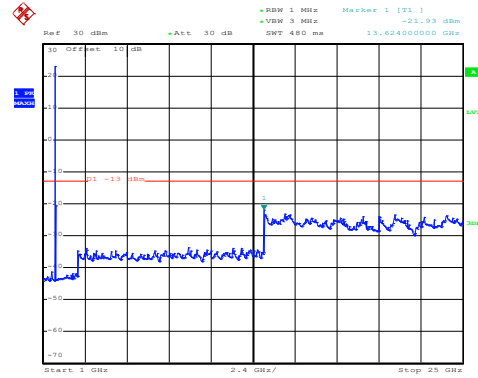
1GHz~25GHz

## LTE Band 4: 16 QAM & RB Size 1 BW: 20MHz Lowest channel



Date: 12.MAR.2021 11:41:03

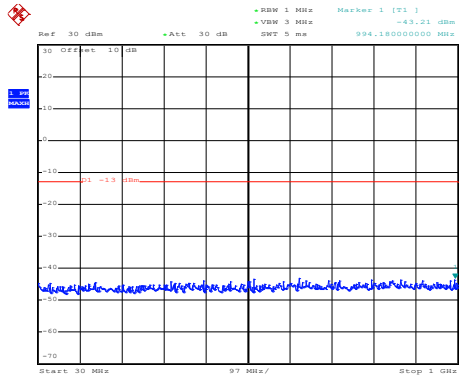
30MHz~1GHz



Date: 12.MAR.2021 11:38:14

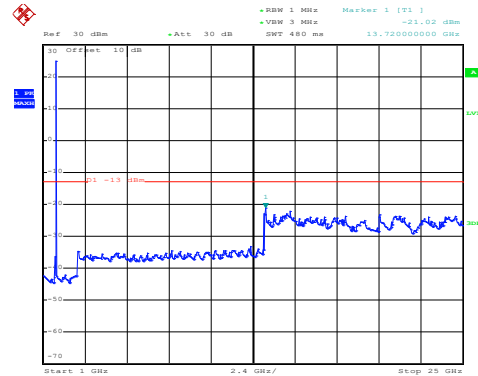
1GHz~25GHz

## Middle channel



Date: 12.MAR.2021 11:40:51

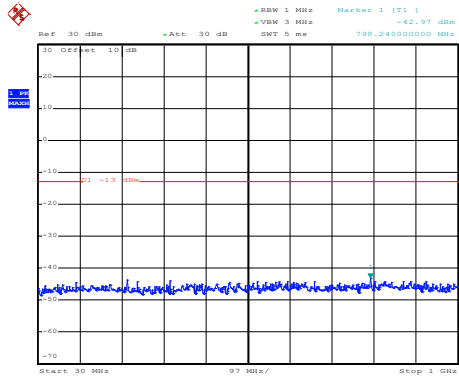
30MHz~1GHz



Date: 12.MAR.2021 11:38:29

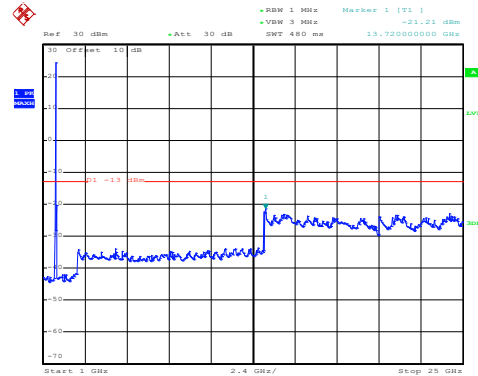
1GHz~25GHz

## High channel



Date: 12.MAR.2021 11:40:41

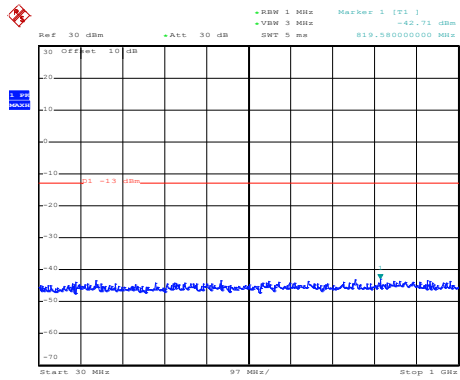
30MHz~1GHz



Date: 12.MAR.2021 11:38:46

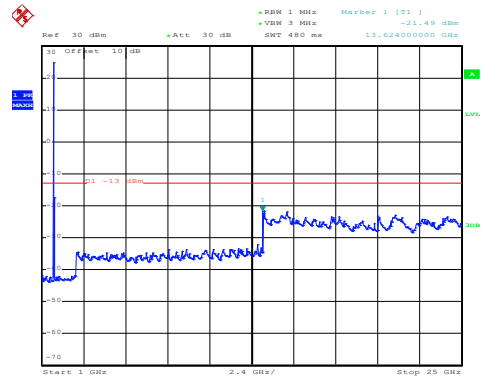
1GHz~25GHz

## LTE Band 4: QPSK & RB Size 1 BW: 20MHz Lowest channel



Date: 12.MAR.2021 11:40:58

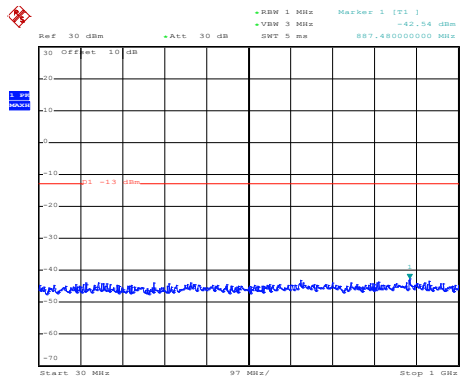
30MHz~1GHz



Date: 12.MAR.2021 11:38:07

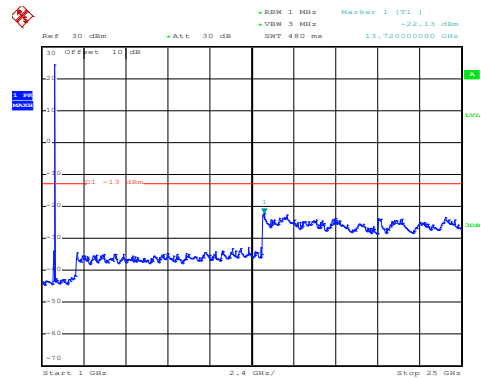
1GHz~25GHz

## Middle channel



Date: 12.MAR.2021 11:40:47

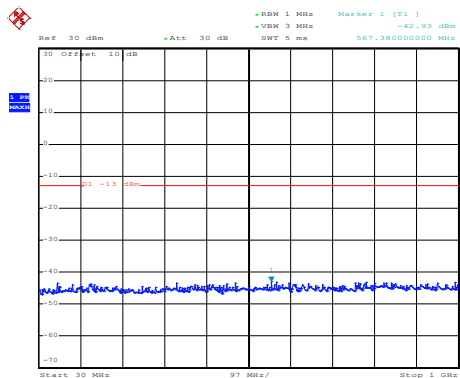
30MHz~1GHz



Date: 12.MAR.2021 11:38:22

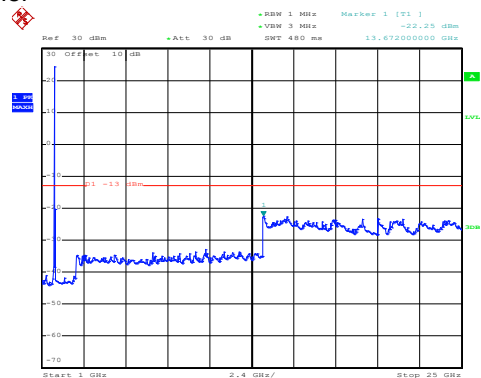
1GHz~25GHz

## High channel



Date: 12.MAR.2021 11:40:37

30MHz~1GHz

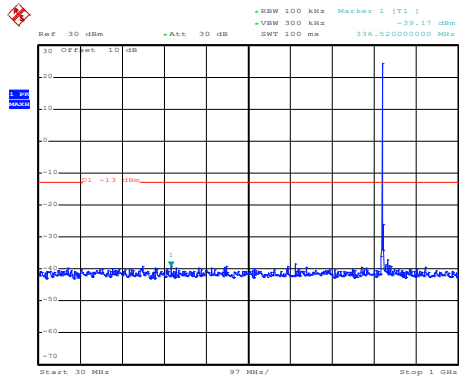


Date: 12.MAR.2021 11:38:39

1GHz~25GHz

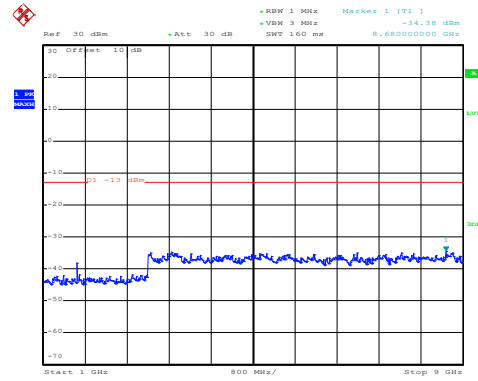
LTE Band 5 part:

LTE Band 5: 16 QAM & RB Size 1  
 BW: 1.4MHz  
 Lowest channel



Date: 12.MAR.2021 12:03:24

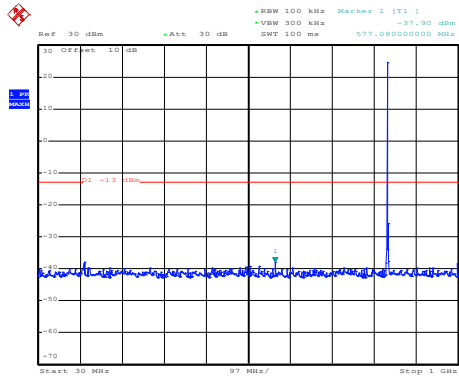
30MHz~1GHz



Date: 12.MAR.2021 12:04:47

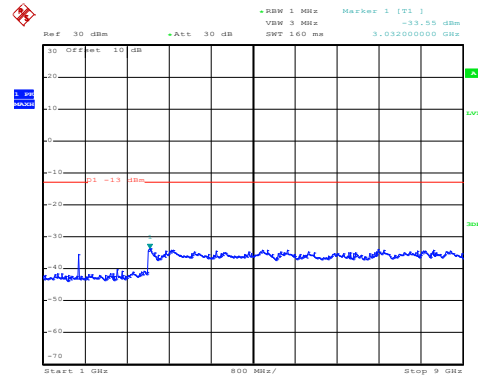
1GHz~9GHz

Middle channel



Date: 12.MAR.2021 12:03:41

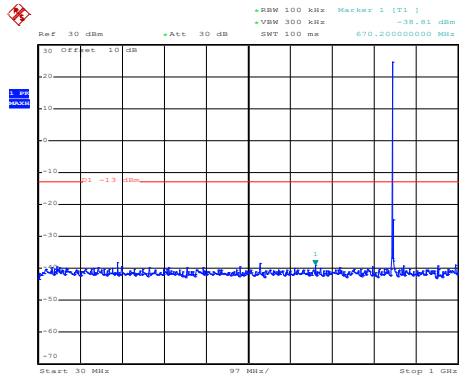
30MHz~1GHz



Date: 12.MAR.2021 14:26:50

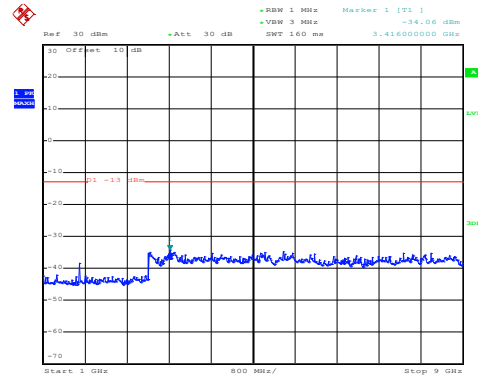
1GHz~9GHz

High channel



Date: 12.MAR.2021 12:03:59

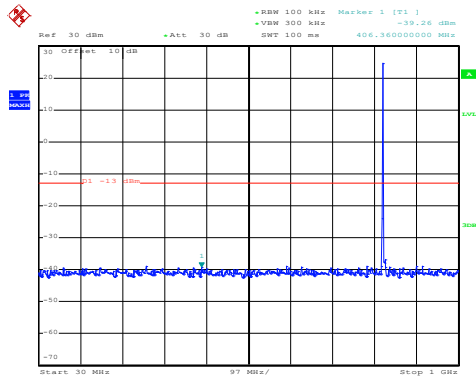
30MHz~1GHz



Date: 12.MAR.2021 12:04:21

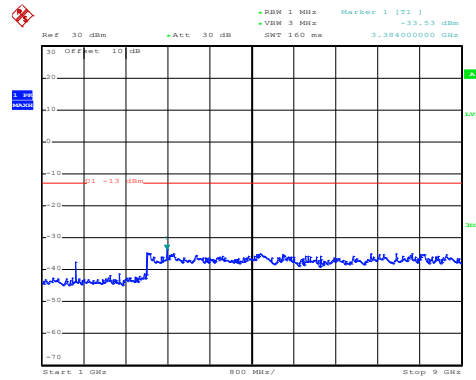
1GHz~9GHz

### LTE Band 5: QPSK & RB Size 1 BW: 1.4MHz Lowest channel



Date: 12.MAR.2021 12:03:16

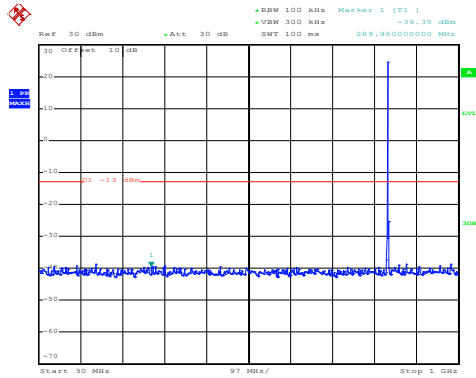
30MHz~1GHz



Date: 12.MAR.2021 12:04:40

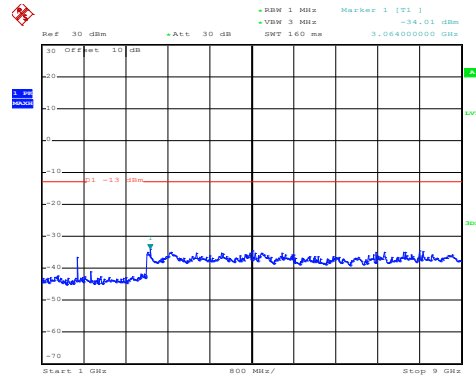
1GHz~9GHz

### Middle channel



Date: 12.MAR.2021 12:03:34

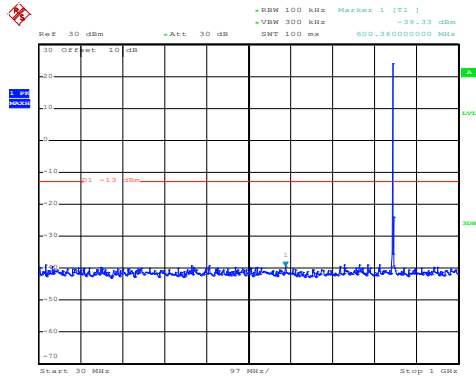
30MHz~1GHz



Date: 12.MAR.2021 12:04:28

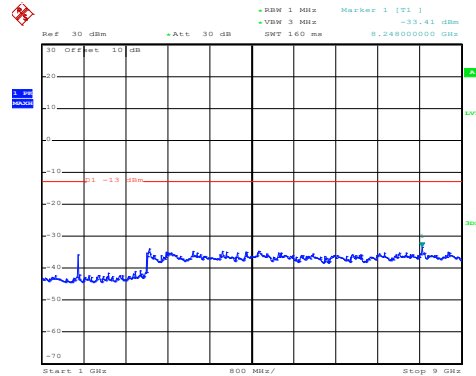
1GHz~9GHz

### High channel



Date: 12.MAR.2021 12:03:50

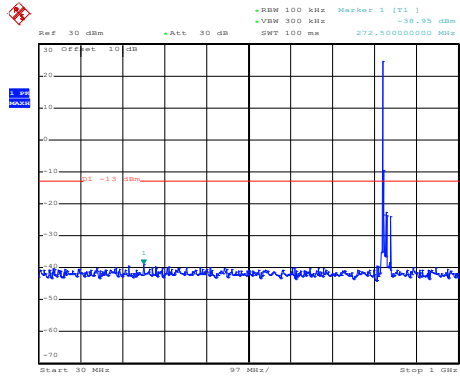
30MHz~1GHz



Date: 12.MAR.2021 12:04:15

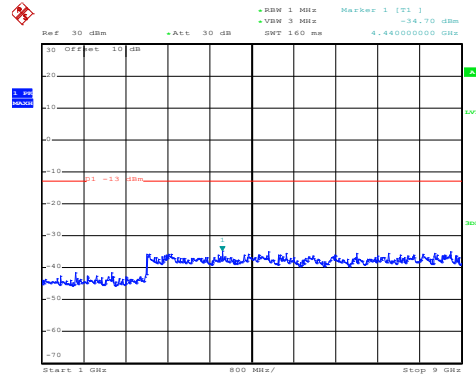
1GHz~9GHz

## LTE Band 5: 16 QAM & RB Size 1 BW: 10MHz Lowest channel



Date: 12.MAR.2021 12:00:32

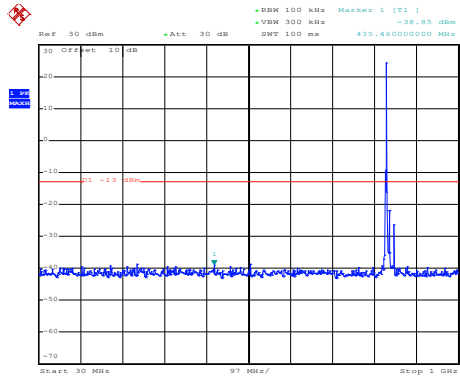
30MHz~1GHz



Date: 12.MAR.2021 12:05:32

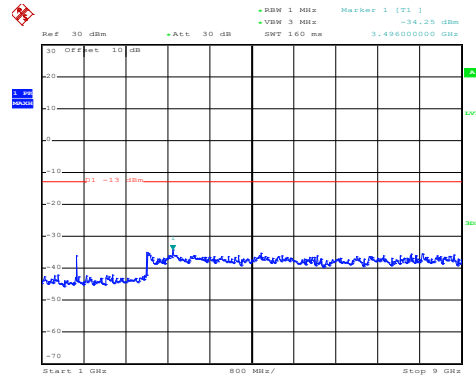
1GHz~9GHz

## Middle channel



Date: 12.MAR.2021 12:00:53

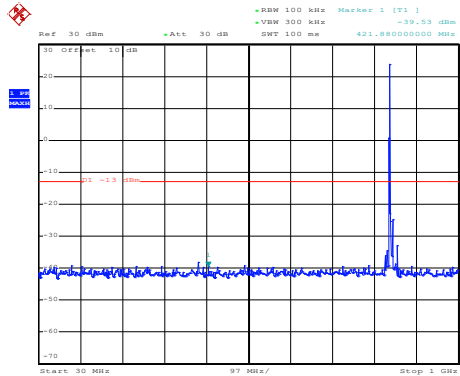
30MHz~1GHz



Date: 12.MAR.2021 12:05:44

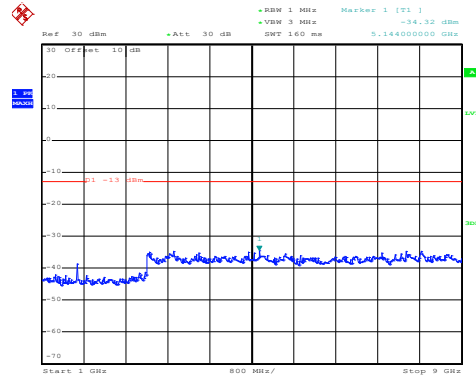
1GHz~9GHz

## High channel



Date: 12.MAR.2021 12:01:21

30MHz~1GHz

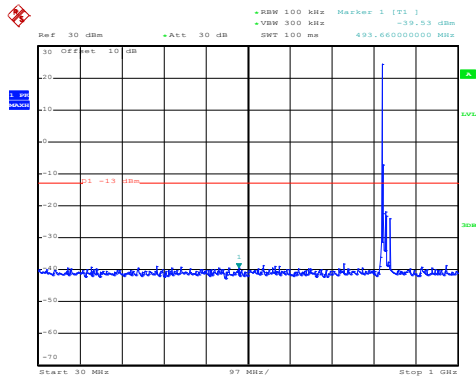


Date: 12.MAR.2021 12:06:02

1GHz~9GHz

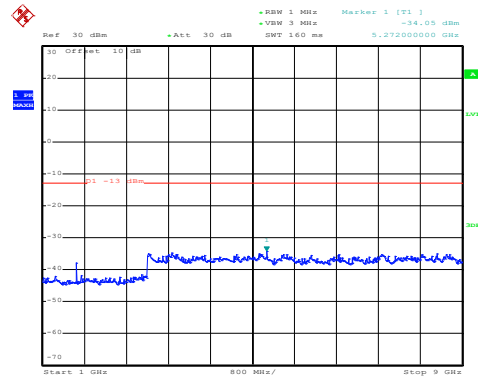


### LTE Band 5: QPSK & RB Size 1 BW: 10MHz Lowest channel



Date: 12.MAR.2021 12:00:26

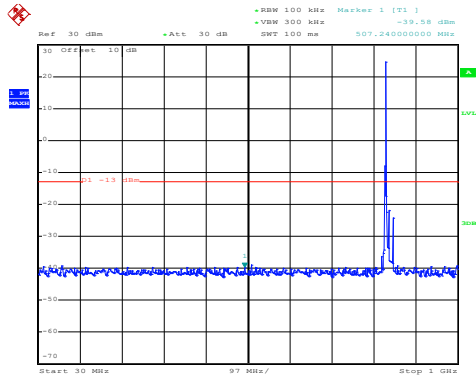
30MHz~1GHz



Date: 12.MAR.2021 12:05:28

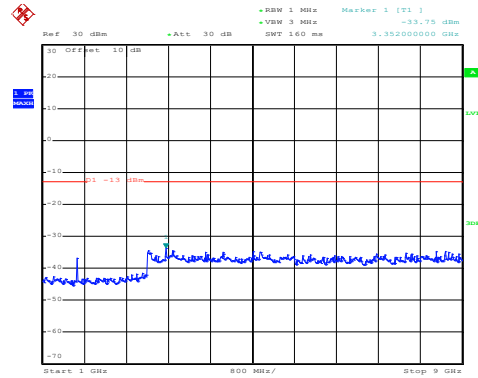
1GHz~9GHz

### Middle channel



Date: 12.MAR.2021 12:00:45

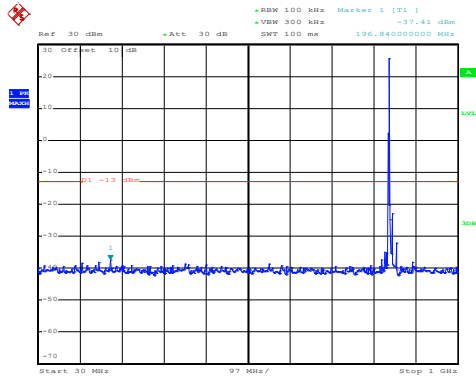
30MHz~1GHz



Date: 12.MAR.2021 12:05:39

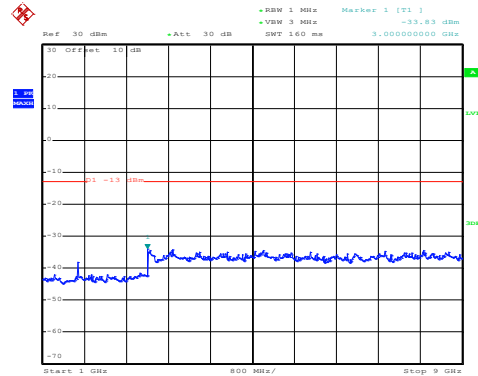
1GHz~9GHz

### High channel



Date: 12.MAR.2021 12:01:13

30MHz~1GHz

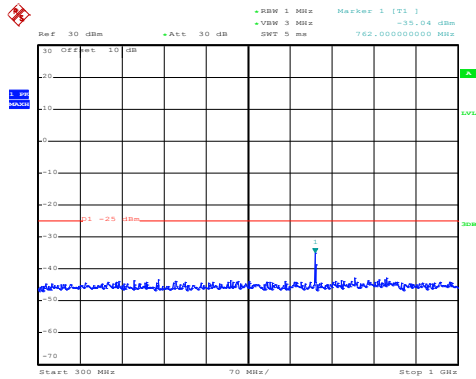


Date: 12.MAR.2021 12:05:56

1GHz~9GHz

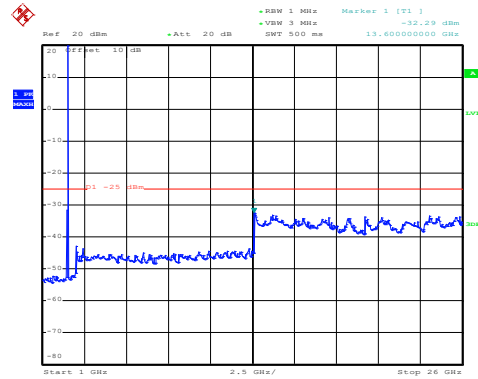
LTE Band 7 part:

LTE Band 7: 16 QAM & RB Size 1  
 BW: 5MHz  
 Lowest channel



Date: 12.MAR.2021 11:54:48

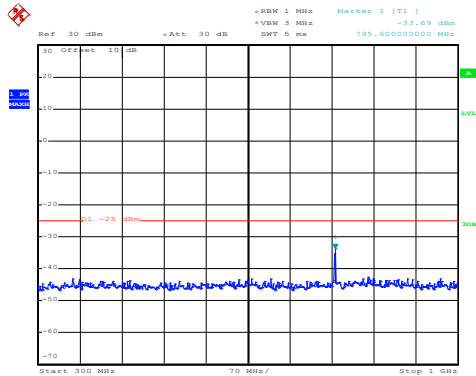
30MHz~1GHz



Date: 12.MAR.2021 11:48:59

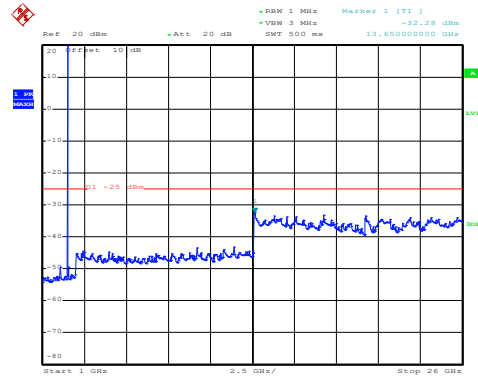
1GHz~26GHz

Middle channel



Date: 12.MAR.2021 11:54:33

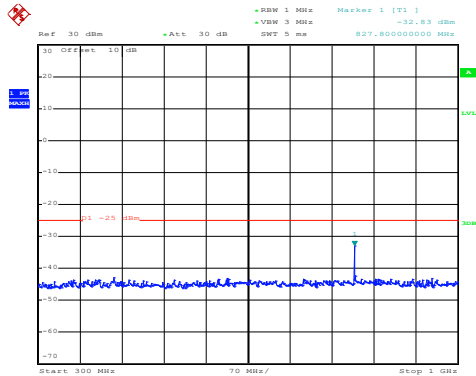
30MHz~1GHz



Date: 12.MAR.2021 11:49:13

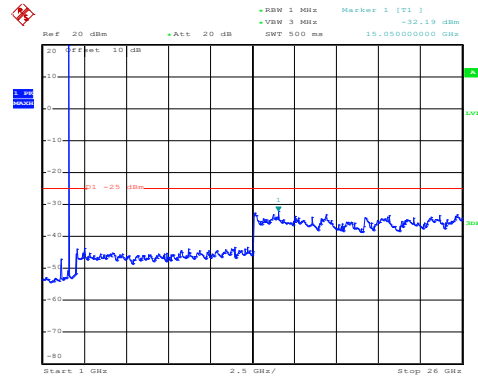
1GHz~26GHz

High channel



Date: 12.MAR.2021 11:54:18

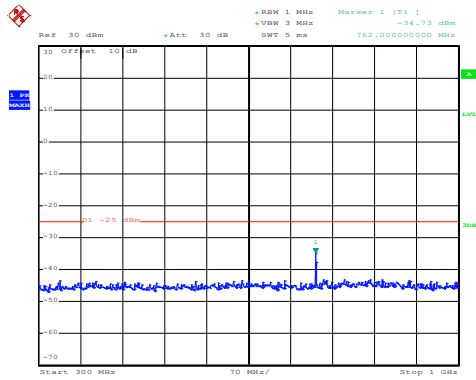
30MHz~1GHz



Date: 12.MAR.2021 11:49:37

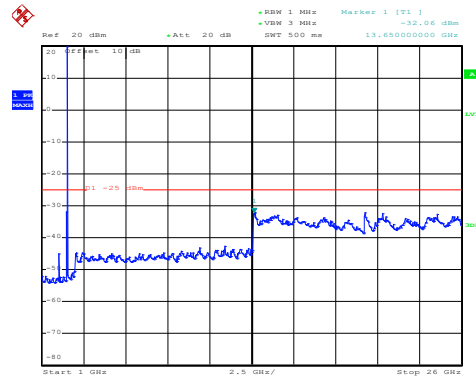
1GHz~26GHz

### LTE Band 7: QPSK & RB Size 1 BW: 5MHz Lowest channel



Date: 12.MAR.2021 11:54:43

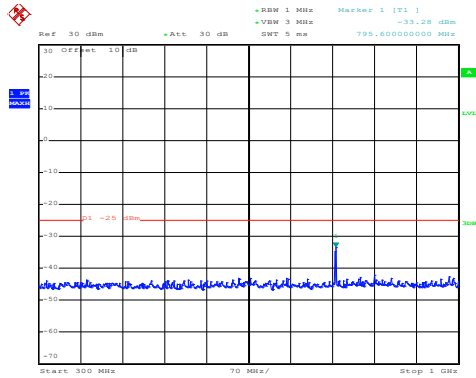
30MHz~1GHz



Date: 12.MAR.2021 11:48:53

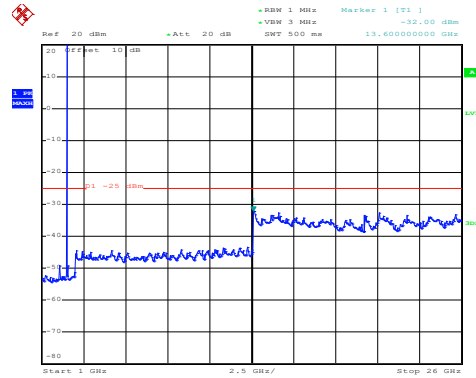
1GHz~26GHz

### Middle channel



Date: 12.MAR.2021 11:54:26

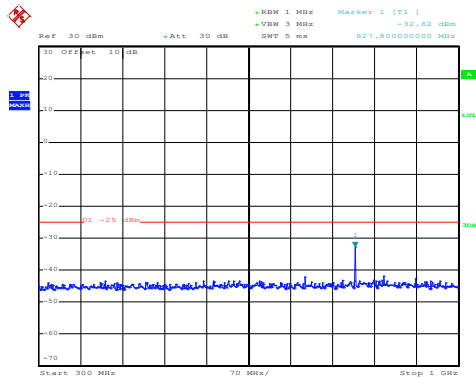
30MHz~1GHz



Date: 12.MAR.2021 11:49:07

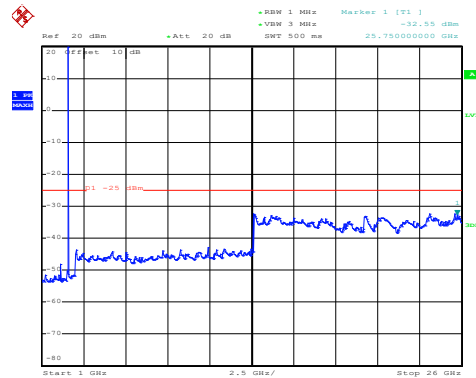
1GHz~26GHz

### High channel



Date: 12.MAR.2021 11:54:08

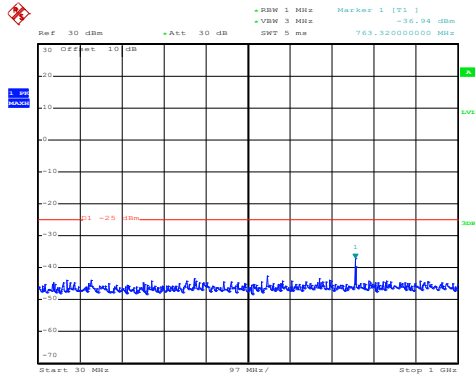
30MHz~1GHz



Date: 12.MAR.2021 11:49:29

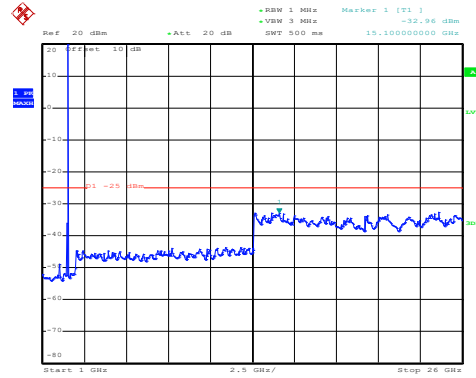
1GHz~26GHz

## LTE Band 7: 16 QAM & RB Size 1 BW: 20MHz Lowest channel



Date: 12.MAR.2021 11:41:32

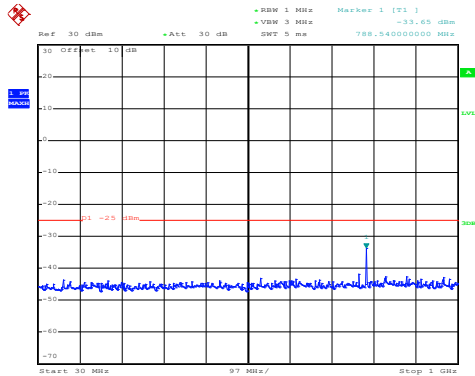
30MHz~1GHz



Date: 12.MAR.2021 11:48:27

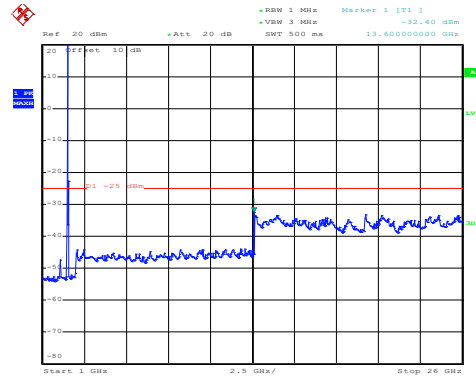
1GHz~26GHz

## Middle channel



Date: 12.MAR.2021 11:41:44

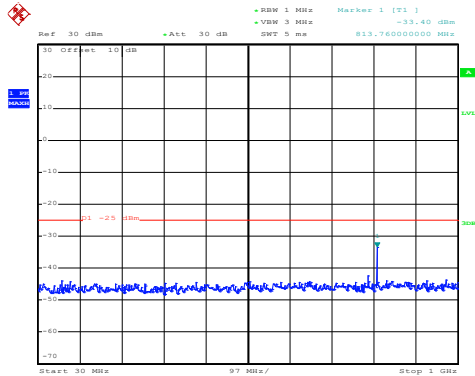
30MHz~1GHz



Date: 12.MAR.2021 11:48:06

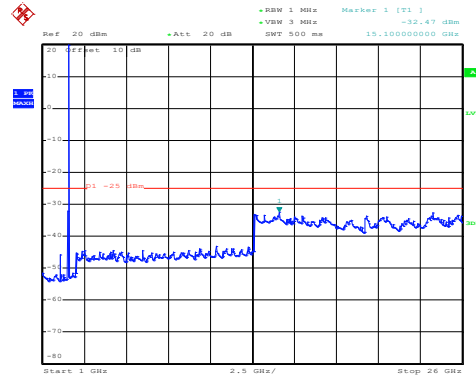
1GHz~26GHz

## High channel



Date: 12.MAR.2021 11:41:59

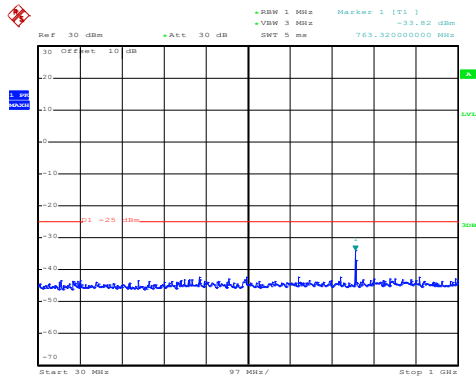
30MHz~1GHz



Date: 12.MAR.2021 11:47:49

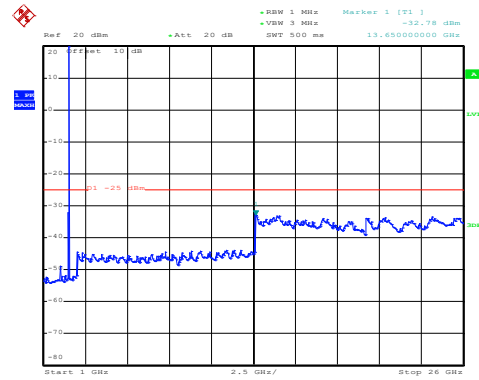
1GHz~26GHz

## LTE Band 7: QPSK & RB Size 1 BW: 20MHz Lowest channel



Date: 12.MAR.2021 11:41:27

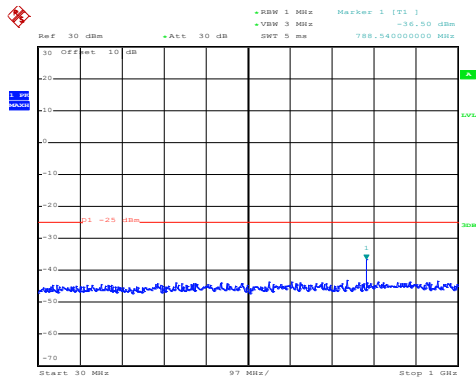
30MHz~1GHz



Date: 12.MAR.2021 11:48:18

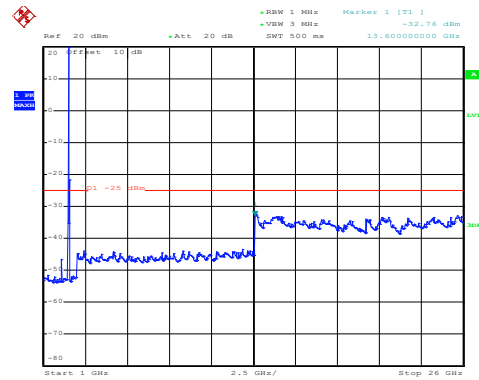
1GHz~26GHz

## Middle channel



Date: 12.MAR.2021 11:41:39

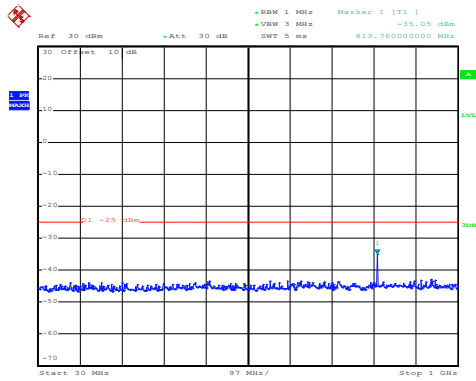
30MHz~1GHz



Date: 12.MAR.2021 11:48:00

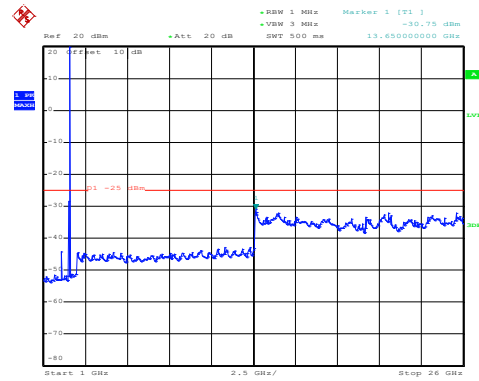
1GHz~26GHz

## High channel



Date: 12.MAR.2021 11:41:54

30MHz~1GHz

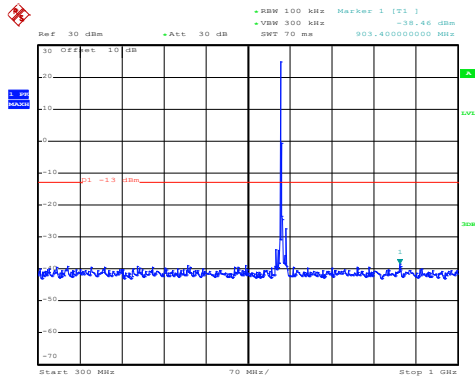


Date: 12.MAR.2021 11:47:40

1GHz~26GHz

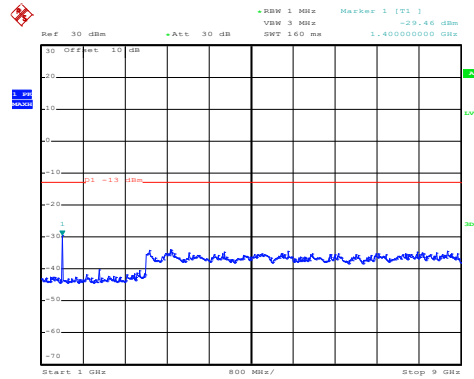
LTE Band 17 part:

LTE Band 17: 16 QAM & RB Size 1  
 BW: 5MHz  
 Lowest channel



Date: 12.MAR.2021 11:56:04

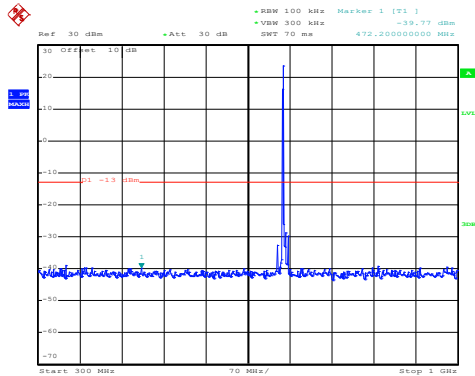
30MHz~1GHz



Date: 12.MAR.2021 14:27:48

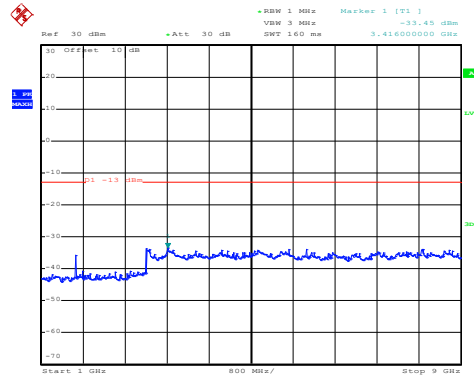
1GHz~9GHz

Middle channel



Date: 12.MAR.2021 11:56:22

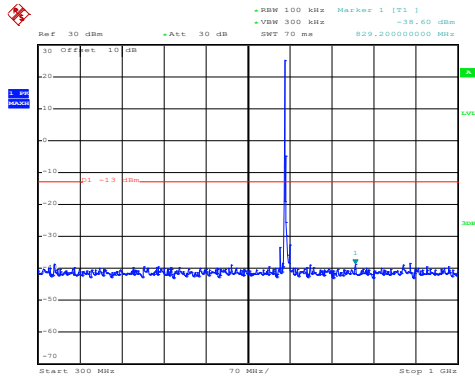
30MHz~1GHz



Date: 12.MAR.2021 14:31:51

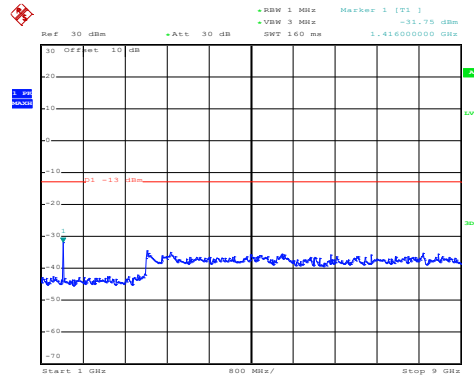
1GHz~9GHz

High channel



Date: 12.MAR.2021 11:56:42

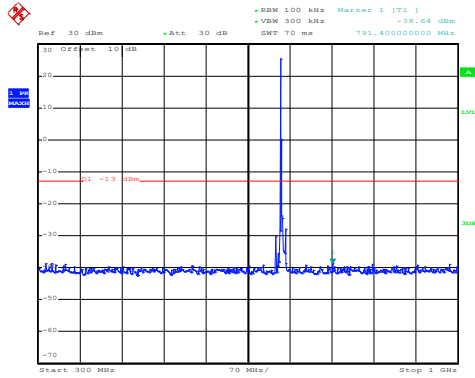
30MHz~1GHz



Date: 12.MAR.2021 11:57:01

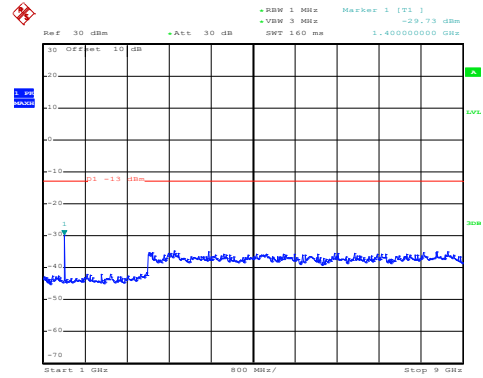
1GHz~9GHz

### LTE Band 17: QPSK & RB Size 1 BW: 5MHz Lowest channel



Date: 12.MAR.2021 11:55:55

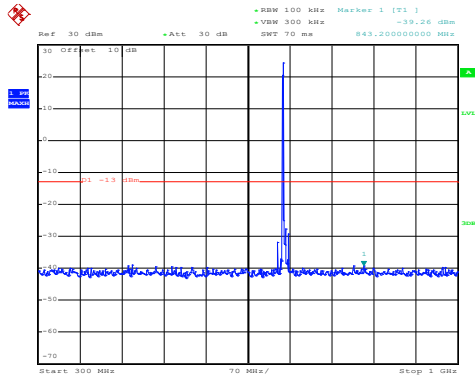
30MHz~1GHz



Date: 12.MAR.2021 11:57:24

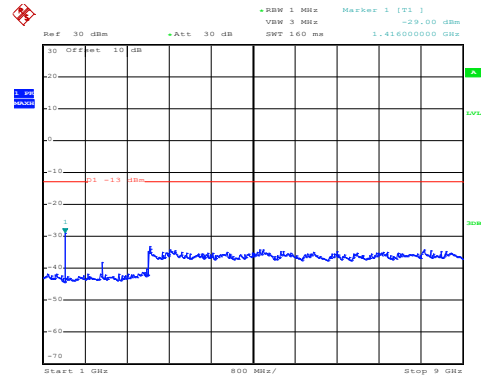
1GHz~9GHz

### Middle channel



Date: 12.MAR.2021 11:56:14

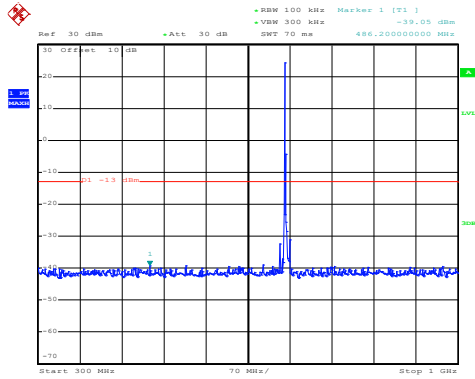
30MHz~1GHz



Date: 12.MAR.2021 14:27:29

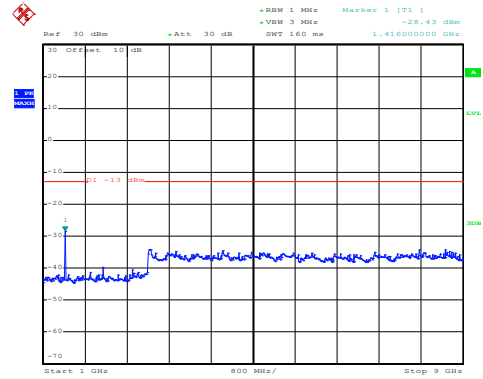
1GHz~9GHz

### High channel



Date: 12.MAR.2021 11:56:33

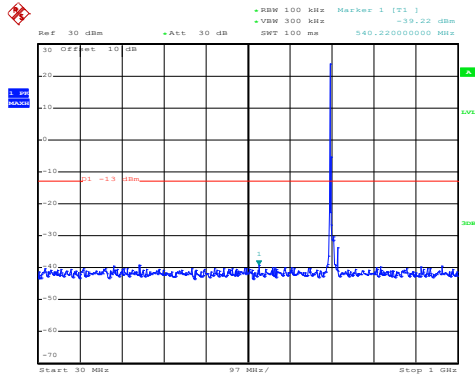
30MHz~1GHz



Date: 12.MAR.2021 11:56:56

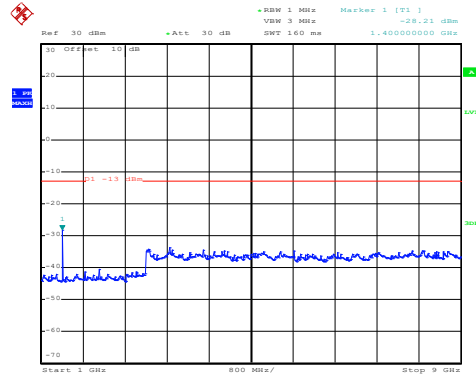
1GHz~9GHz

## LTE Band 17: 16 QAM & RB Size 1 BW: 10MHz Lowest channel



Date: 12.MAR.2021 12:00:06

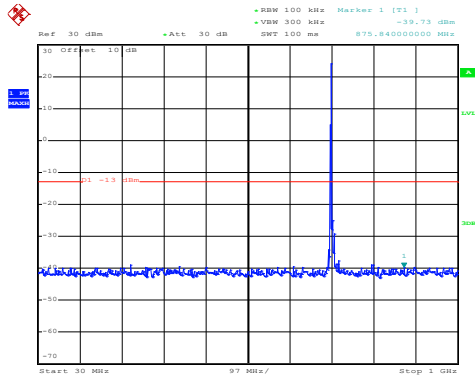
30MHz~1GHz



Date: 12.MAR.2021 14:28:18

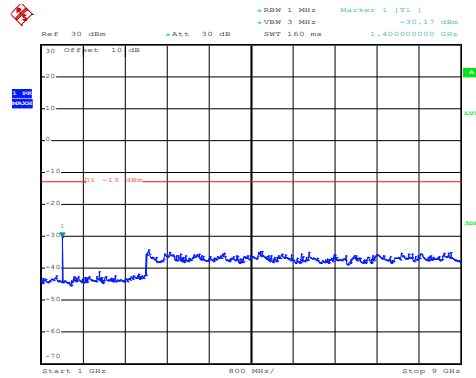
1GHz~9GHz

## Middle channel



Date: 12.MAR.2021 11:59:38

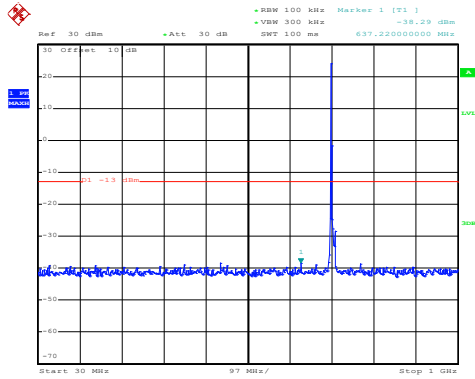
30MHz~1GHz



Date: 12.MAR.2021 11:58:16

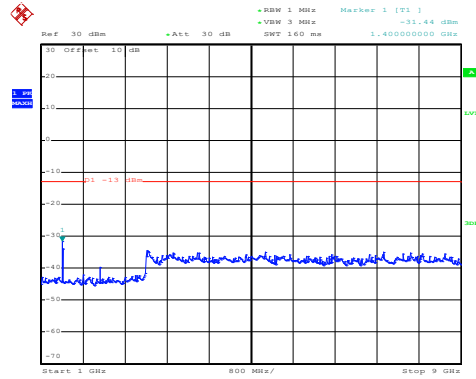
1GHz~9GHz

## High channel



Date: 12.MAR.2021 11:59:14

30MHz~1GHz

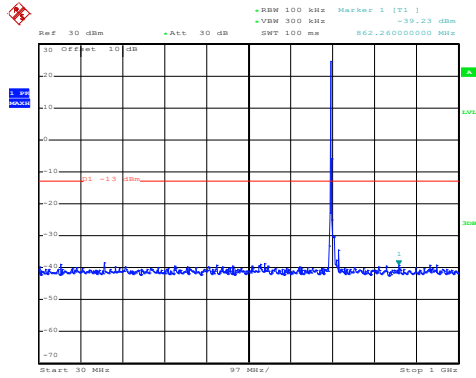


Date: 12.MAR.2021 11:58:40

1GHz~9GHz

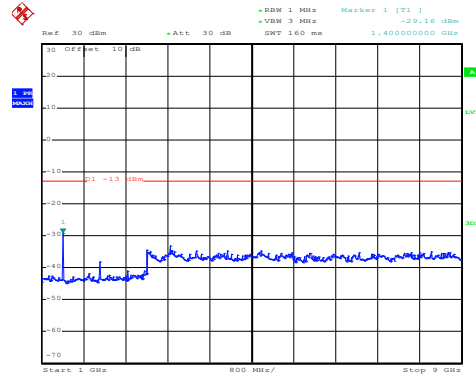


### LTE Band 17: QPSK & RB Size 1 BW: 10MHz Lowest channel



Date: 12.MAR.2021 11:59:59

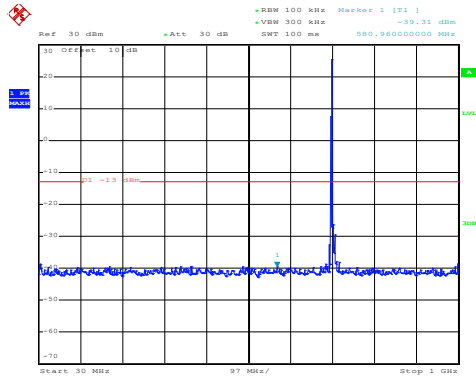
30MHz~1GHz



Date: 12.MAR.2021 11:57:57

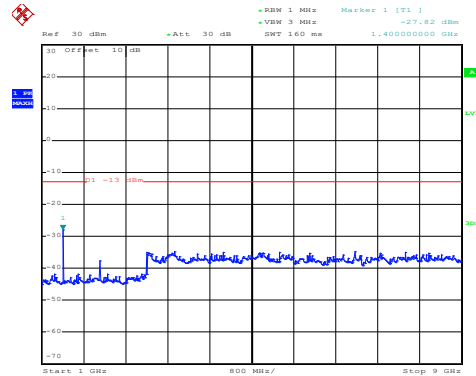
1GHz~9GHz

### Middle channel



Date: 12.MAR.2021 11:59:30

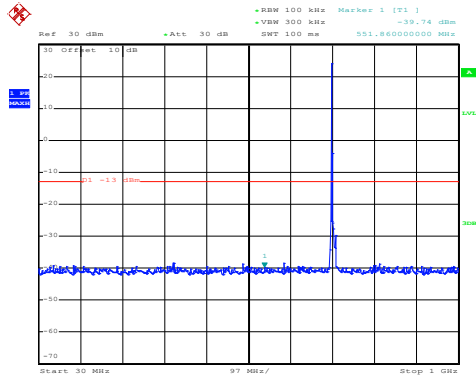
30MHz~1GHz



Date: 12.MAR.2021 11:58:08

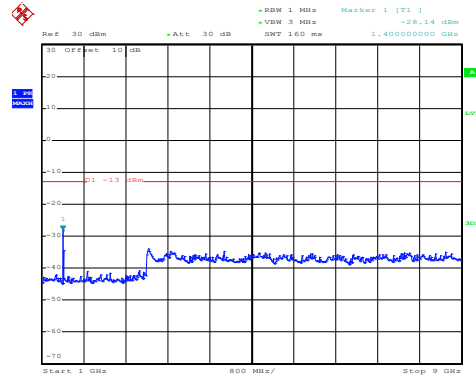
1GHz~9GHz

### High channel



Date: 12.MAR.2021 11:59:05

30MHz~1GHz

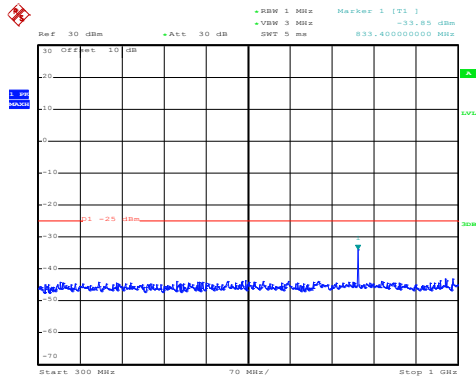


Date: 12.MAR.2021 11:58:33

1GHz~9GHz

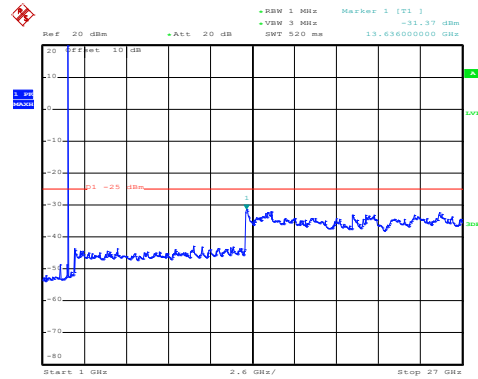
LTE Band 38 part:

LTE Band 38: 16 QAM & RB Size 1  
 BW: 5MHz  
 Lowest channel



Date: 12.MAR.2021 11:53:23

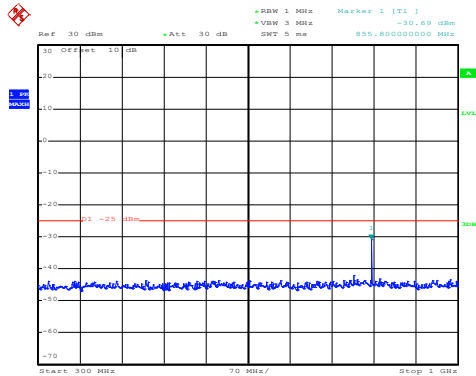
30MHz~1GHz



Date: 12.MAR.2021 11:50:50

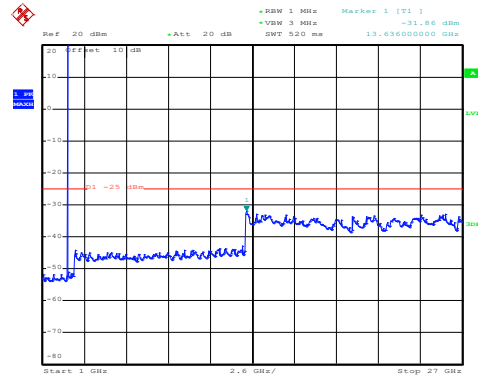
1GHz~26GHz

Middle channel



Date: 12.MAR.2021 11:53:38

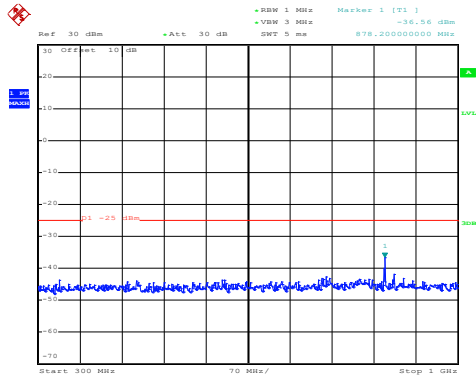
30MHz~1GHz



Date: 12.MAR.2021 11:50:23

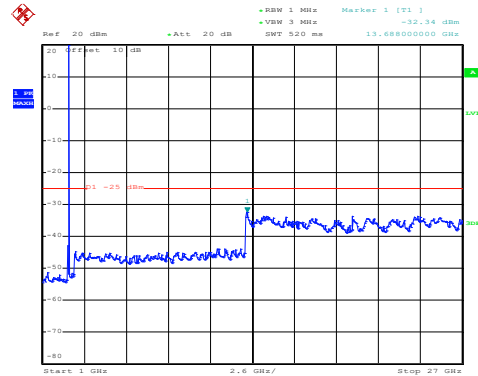
1GHz~26GHz

High channel



Date: 12.MAR.2021 11:53:52

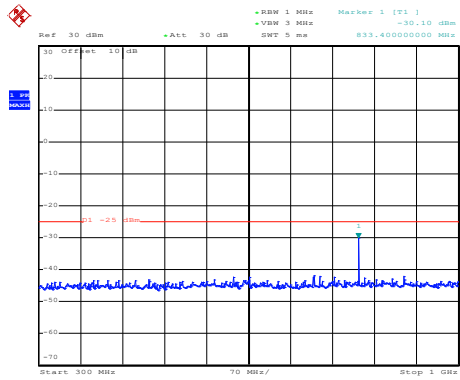
30MHz~1GHz



Date: 12.MAR.2021 11:50:02

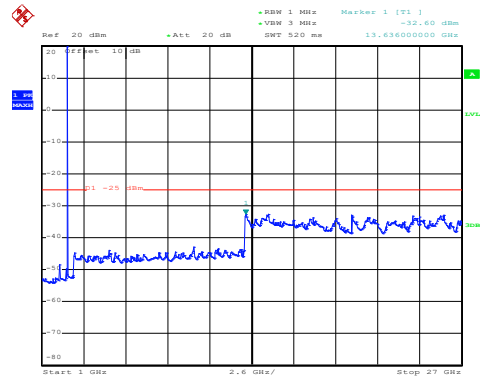
1GHz~26GHz

### LTE Band 38: QPSK & RB Size 1 BW: 5MHz Lowest channel



Date: 12.MAR.2021 11:53:19

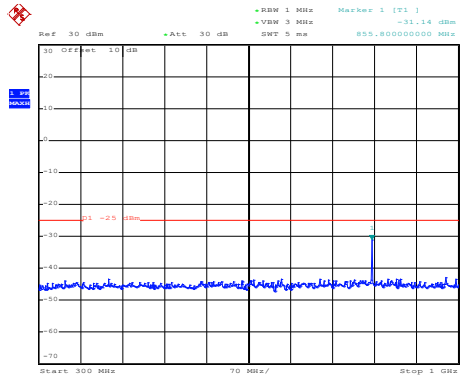
30MHz~1GHz



Date: 12.MAR.2021 11:50:34

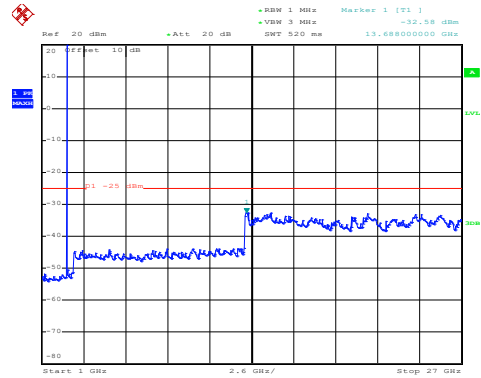
1GHz~26GHz

### Middle channel



Date: 12.MAR.2021 11:53:31

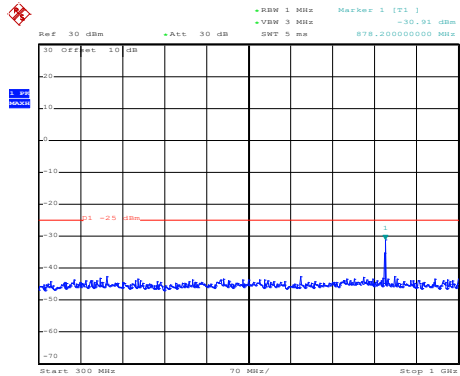
30MHz~1GHz



Date: 12.MAR.2021 11:50:12

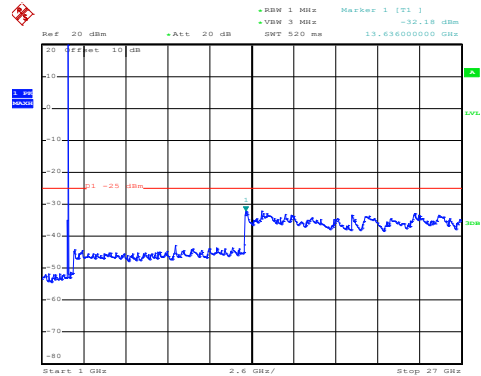
1GHz~26GHz

### High channel



Date: 12.MAR.2021 11:53:47

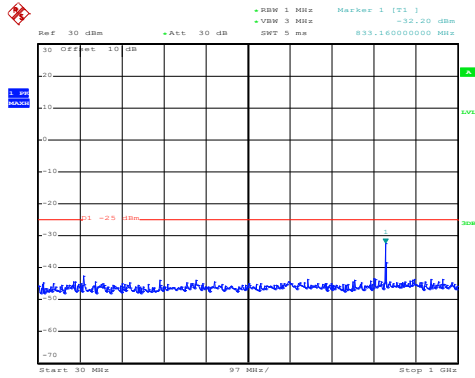
30MHz~1GHz



Date: 12.MAR.2021 11:49:56

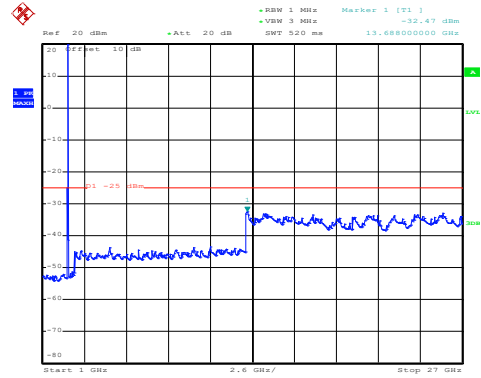
1GHz~26GHz

## LTE Band 38: 16 QAM & RB Size 1 BW: 20MHz Lowest channel



Date: 12.MAR.2021 11:43:16

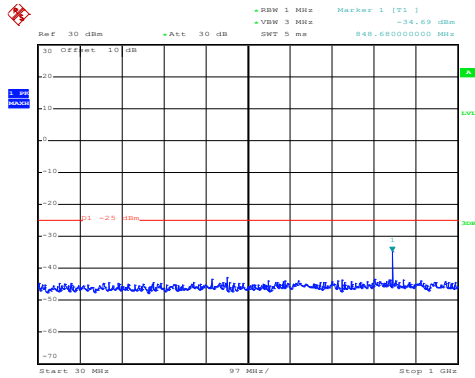
30MHz~1GHz



Date: 12.MAR.2021 11:46:21

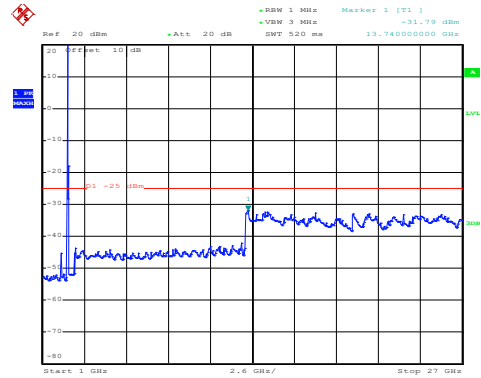
1GHz~26GHz

## Middle channel



Date: 12.MAR.2021 11:42:38

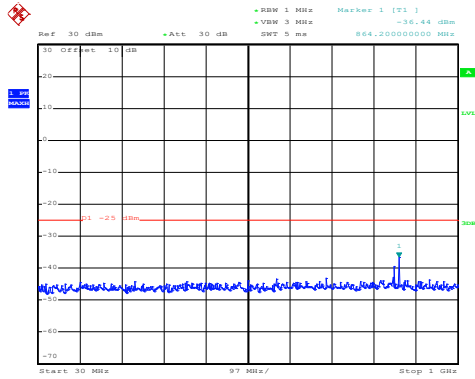
30MHz~1GHz



Date: 12.MAR.2021 11:47:01

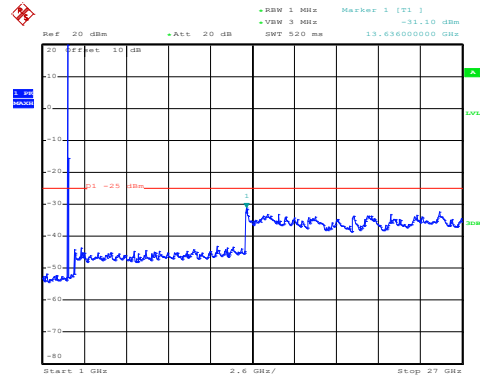
1GHz~26GHz

## High channel



Date: 12.MAR.2021 11:42:26

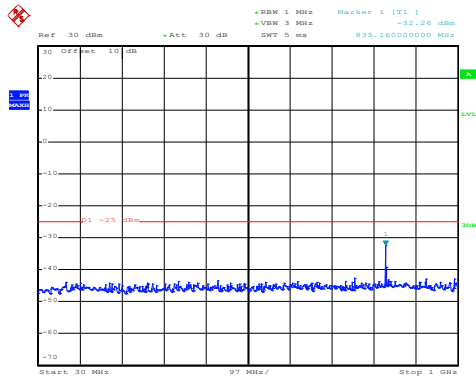
30MHz~1GHz



Date: 12.MAR.2021 11:47:19

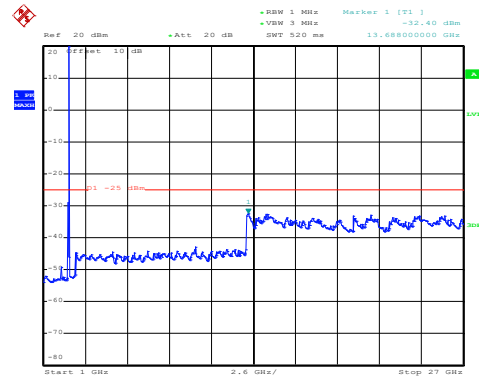
1GHz~26GHz

## LTE Band 38: QPSK & RB Size 1 BW: 20MHz Lowest channel



Date: 12.MAR.2021 11:43:21

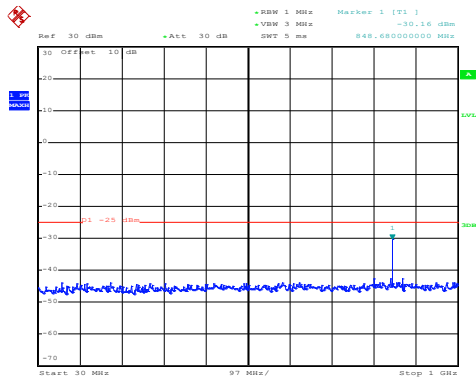
30MHz~1GHz



Date: 12.MAR.2021 11:46:12

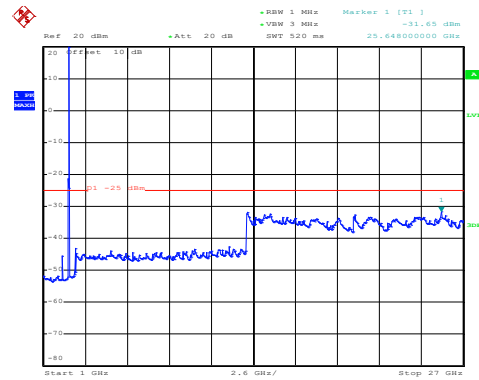
1GHz~26GHz

## Middle channel



Date: 12.MAR.2021 11:42:33

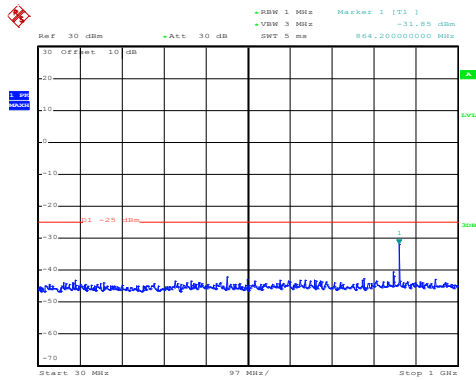
30MHz~1GHz



Date: 12.MAR.2021 11:46:43

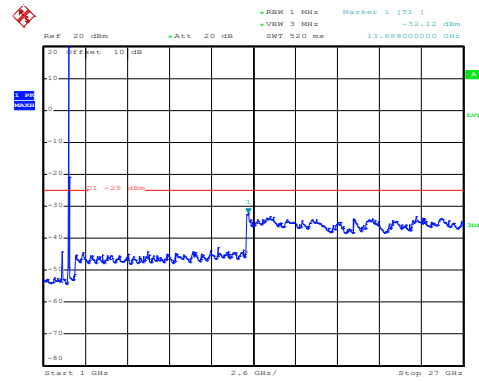
1GHz~26GHz

## High channel



Date: 12.MAR.2021 11:42:22

30MHz~1GHz

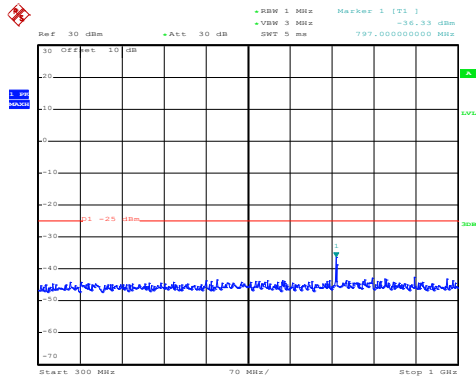


Date: 12.MAR.2021 11:47:12

1GHz~26GHz

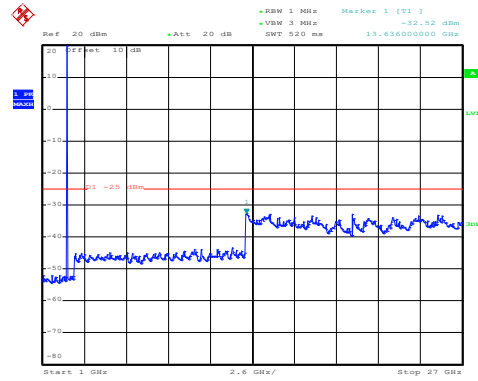
LTE Band 41 part:

LTE Band 41: 16 QAM & RB Size 1  
 BW: 5MHz  
 Lowest channel



Date: 12.MAR.2021 11:53:09

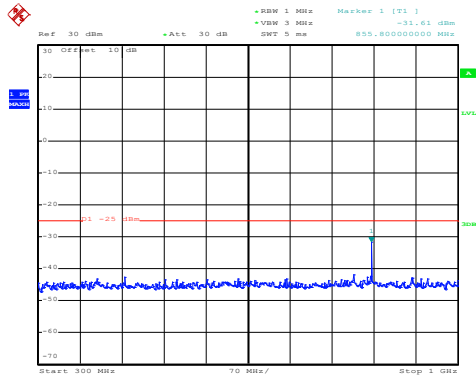
30MHz~1GHz



Date: 12.MAR.2021 11:51:19

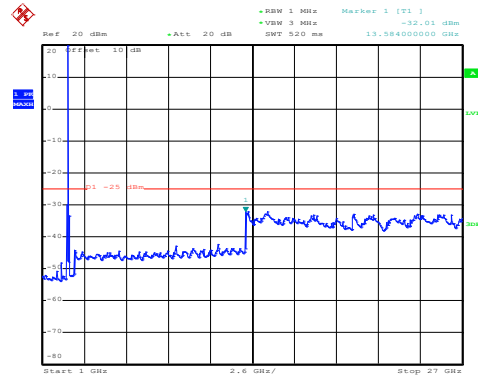
1GHz~26GHz

Middle channel



Date: 12.MAR.2021 11:52:53

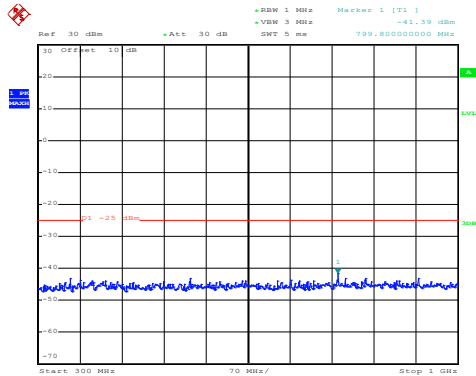
30MHz~1GHz



Date: 12.MAR.2021 11:51:56

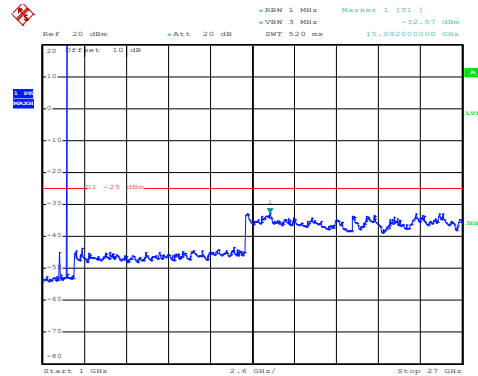
1GHz~26GHz

High channel



Date: 12.MAR.2021 11:52:39

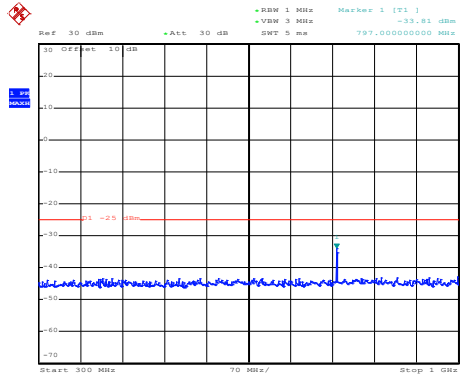
30MHz~1GHz



Date: 12.MAR.2021 11:52:15

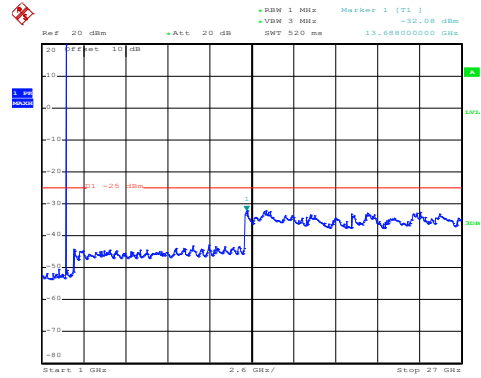
1GHz~26GHz

### LTE Band 41: QPSK & RB Size 1 BW: 5MHz Lowest channel



Date: 12.MAR.2021 11:53:04

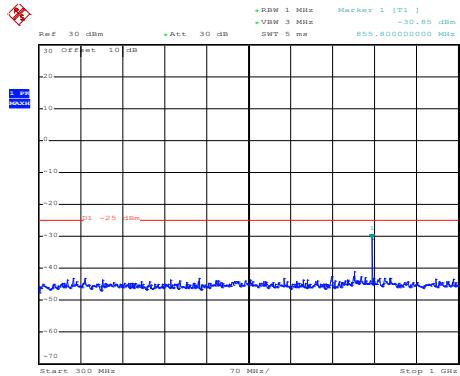
30MHz~1GHz



Date: 12.MAR.2021 11:51:13

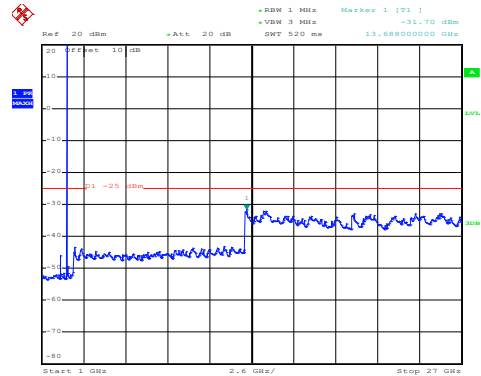
1GHz~26GHz

### Middle channel



Date: 12.MAR.2021 11:52:47

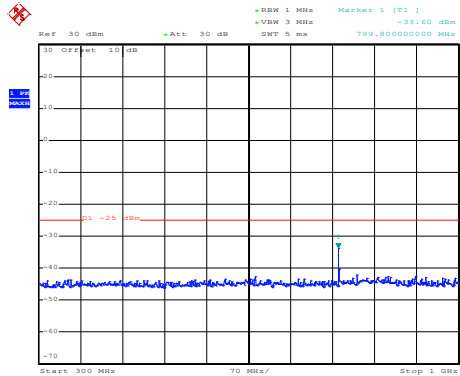
30MHz~1GHz



Date: 12.MAR.2021 11:51:37

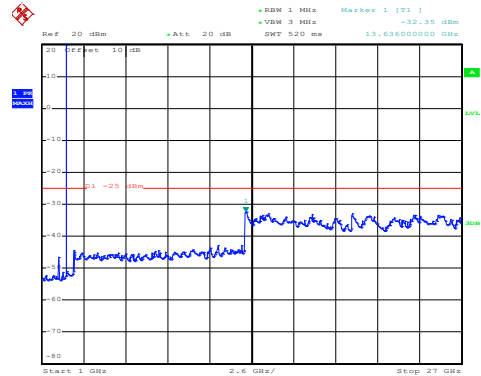
1GHz~26GHz

### High channel



Date: 12.MAR.2021 11:52:35

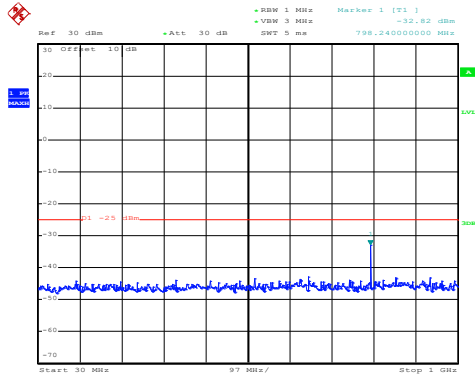
30MHz~1GHz



Date: 12.MAR.2021 11:52:07

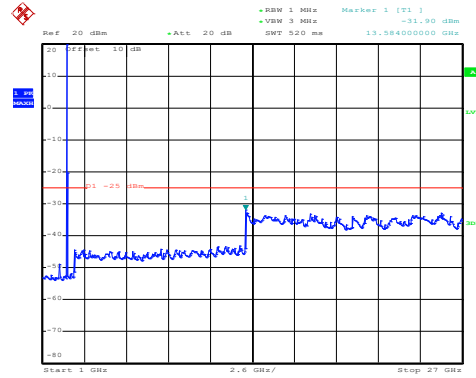
1GHz~26GHz

### LTE Band 41: 16 QAM & RB Size 1 BW: 20MHz Lowest channel



Date: 12.MAR.2021 11:43:53

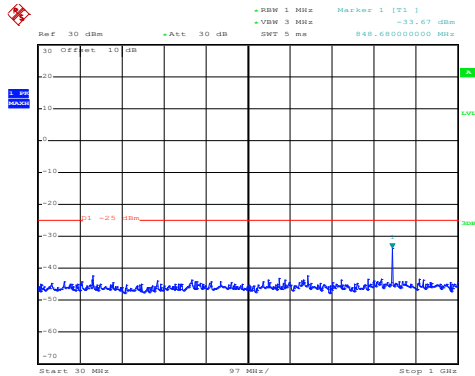
30MHz~1GHz



Date: 12.MAR.2021 11:45:35

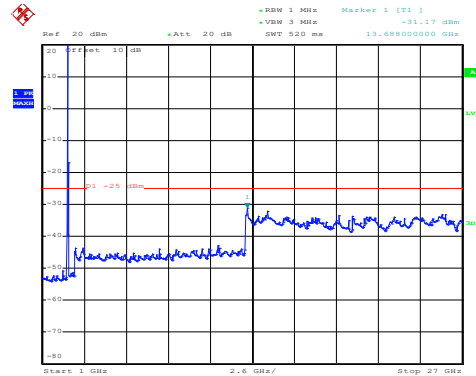
1GHz~26GHz

### Middle channel



Date: 12.MAR.2021 11:44:04

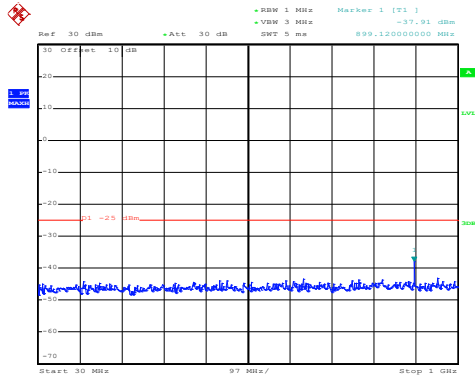
30MHz~1GHz



Date: 12.MAR.2021 11:45:15

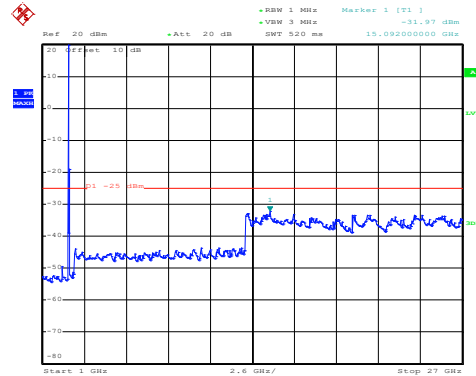
1GHz~26GHz

### High channel



Date: 12.MAR.2021 11:44:23

30MHz~1GHz

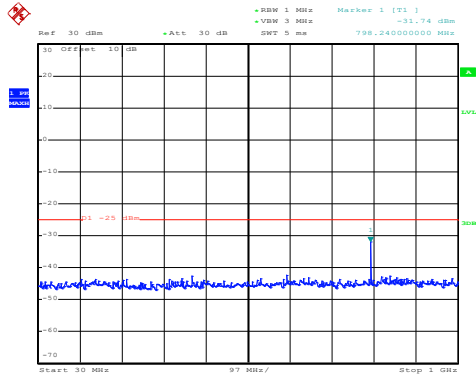


Date: 12.MAR.2021 11:44:54

1GHz~26GHz

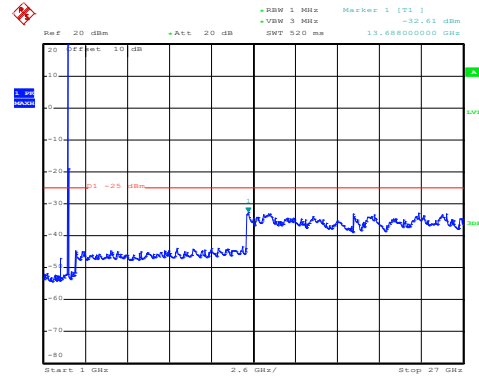


## LTE Band 41: QPSK & RB Size 1 BW: 20MHz Lowest channel



Date: 12.MAR.2021 11:43:49

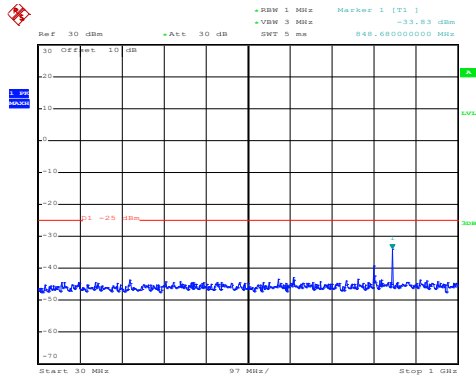
30MHz~1GHz



Date: 12.MAR.2021 11:45:26

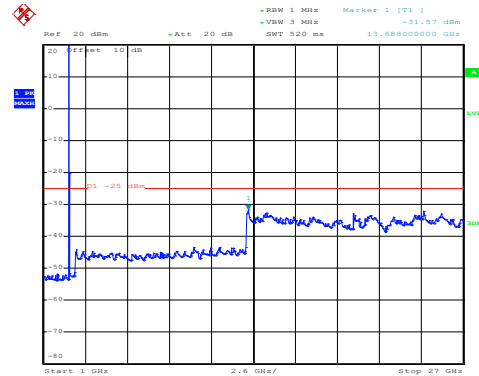
1GHz~26GHz

## Middle channel



Date: 12.MAR.2021 11:44:00

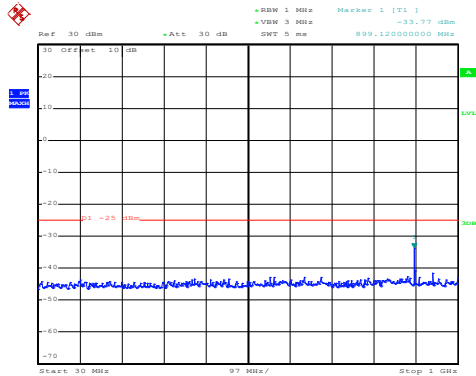
30MHz~1GHz



Date: 12.MAR.2021 11:45:07

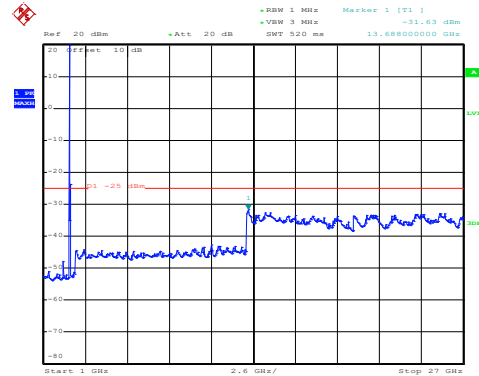
1GHz~26GHz

## High channel



Date: 12.MAR.2021 11:44:17

30MHz~1GHz

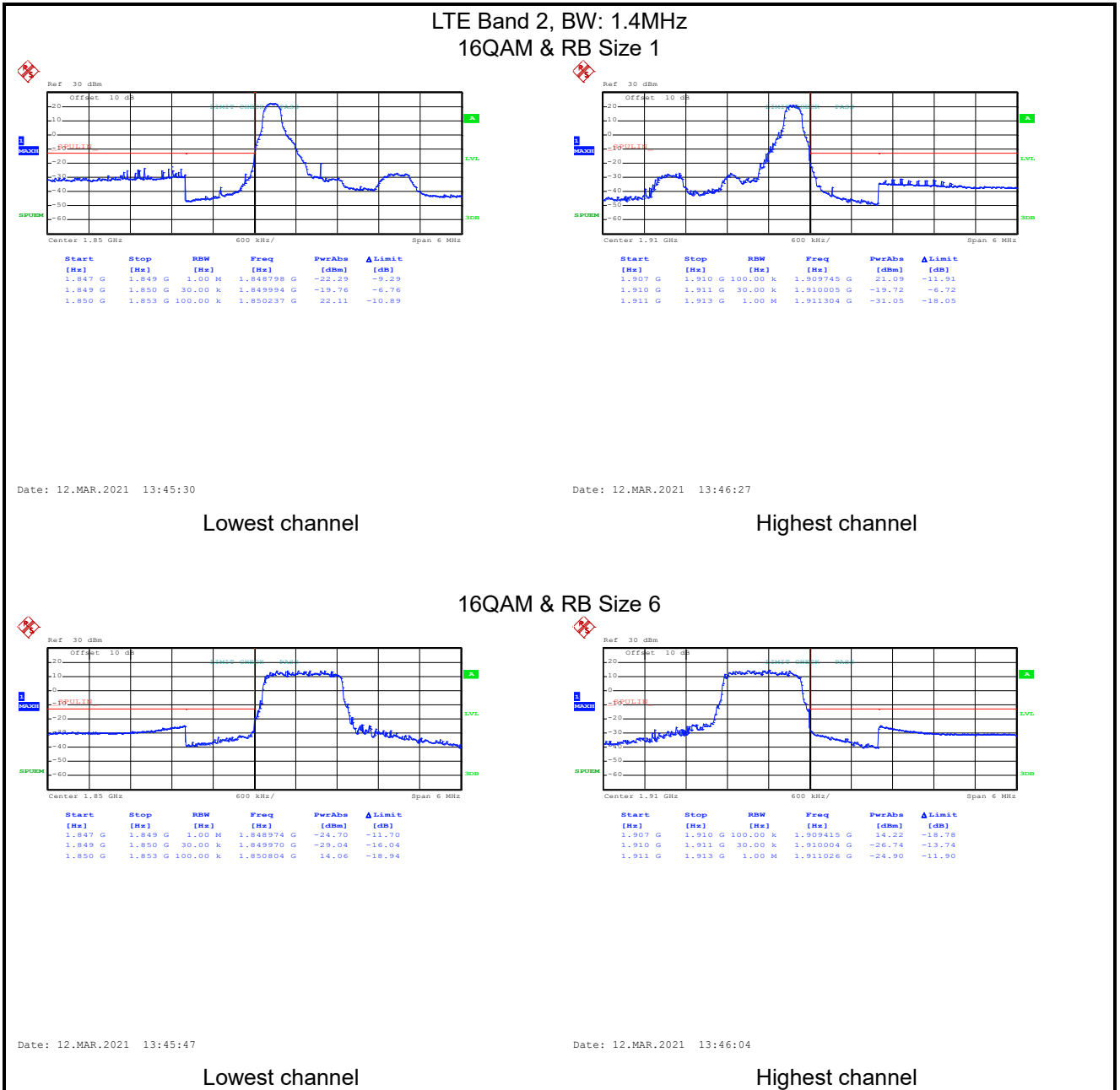


Date: 12.MAR.2021 11:44:45

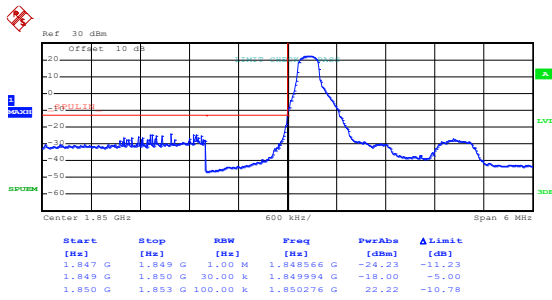
1GHz~26GHz

**Band edge emission:**

**LTE Band 2 part:**

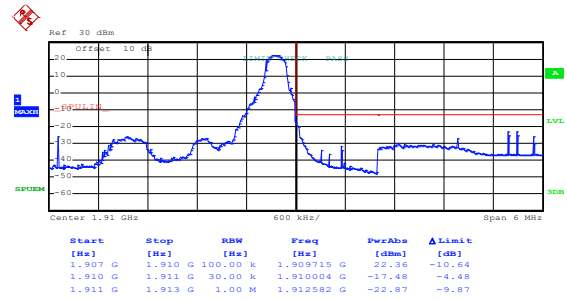


## LTE Band 2, BW: 1.4MHz QPSK & RB Size 1



Date: 12.MAR.2021 13:44:19

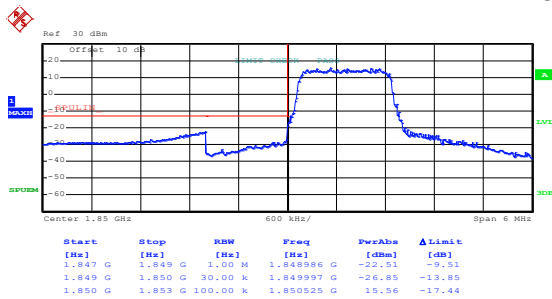
Lowest channel



Date: 12.MAR.2021 13:46:17

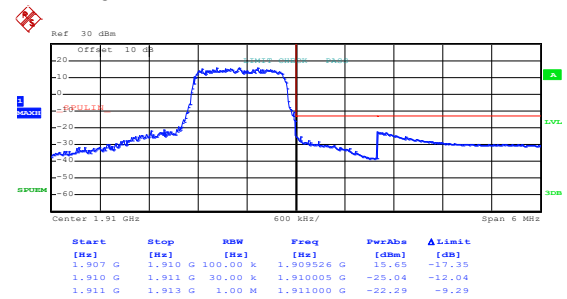
Highest channel

## QPSK & RB Size 6



Date: 12.MAR.2021 13:45:42

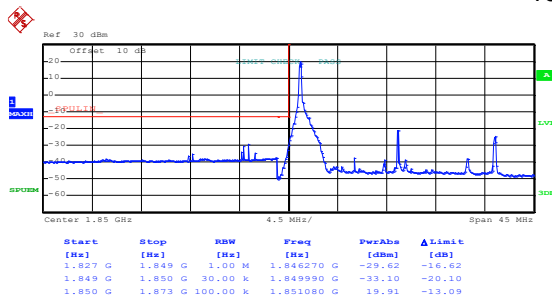
Lowest channel



Date: 12.MAR.2021 13:46:00

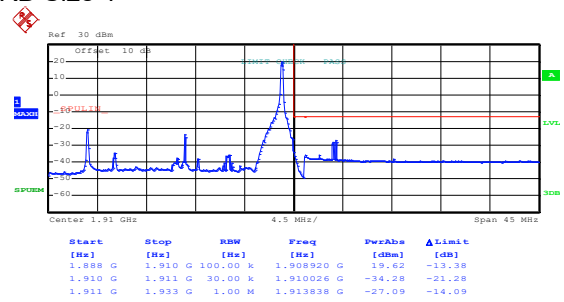
Highest channel

### LTE Band 2, BW: 20MHz 16QAM & RB Size 1



Date: 12.MAR.2021 13:48:03

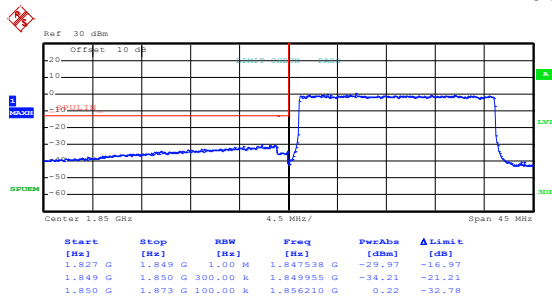
Lowest channel



Date: 12.MAR.2021 13:47:15

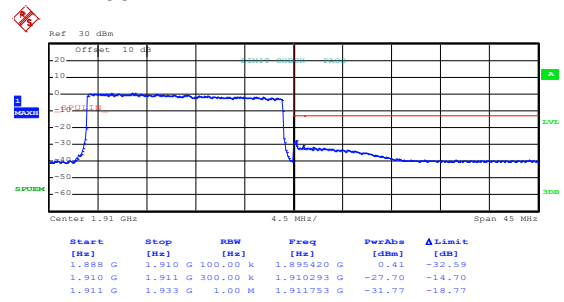
Highest channel

### 16QAM & RB Size 100



Date: 12.MAR.2021 13:48:27

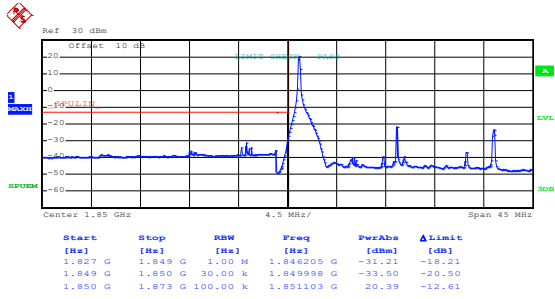
Lowest channel



Date: 12.MAR.2021 13:47:42

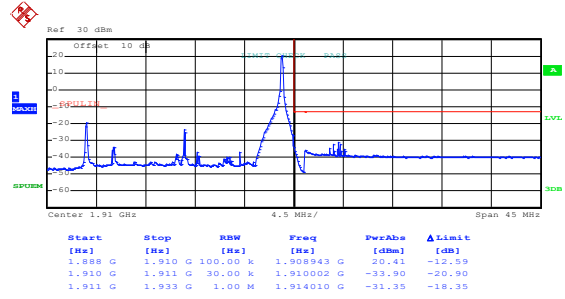
Highest channel

### LTE Band 2, BW: 20MHz QPSK & RB Size 1



Date: 12.MAR.2021 13:47:57

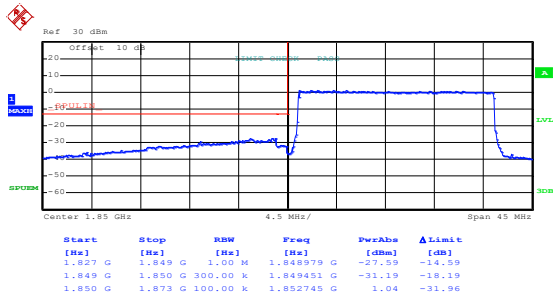
Lowest channel



Date: 12.MAR.2021 13:47:23

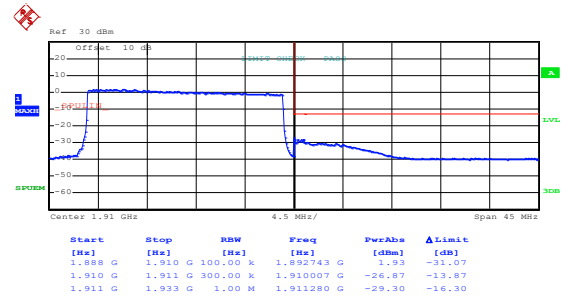
Highest channel

### QPSK & RB Size 100



Date: 12.MAR.2021 13:48:22

Lowest channel

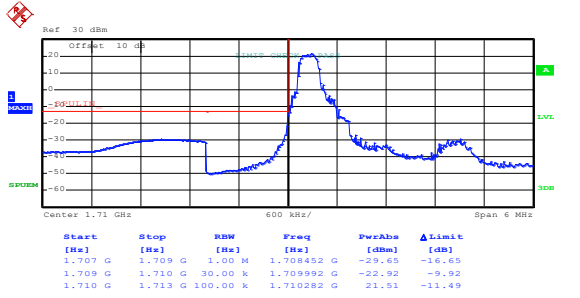


Date: 12.MAR.2021 13:47:37

Highest channel

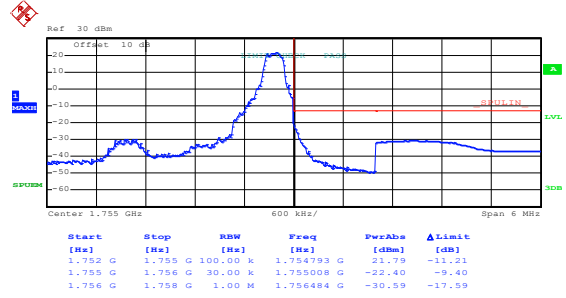
LTE Band 4 part:

LTE Band 4, BW: 1.4MHz  
16QAM & RB Size 1



Date: 12.MAR.2021 13:52:01

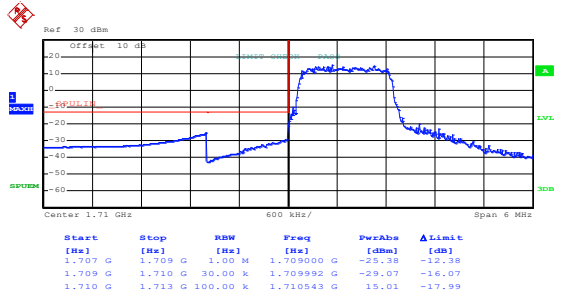
Lowest channel



Date: 12.MAR.2021 13:51:05

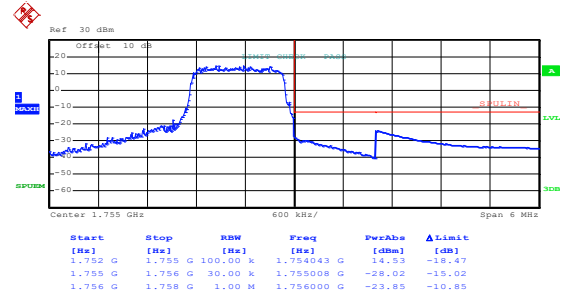
Highest channel

16QAM & RB Size 6



Date: 12.MAR.2021 13:51:50

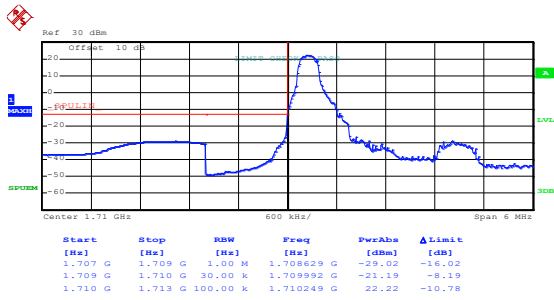
Lowest channel



Date: 12.MAR.2021 13:51:19

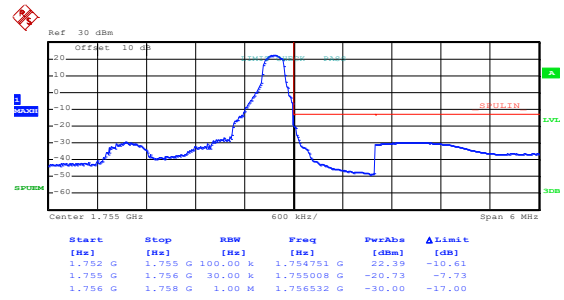
Highest channel

## LTE Band 4, BW: 1.4MHz QPSK & RB Size 1



Date: 12.MAR.2021 13:51:56

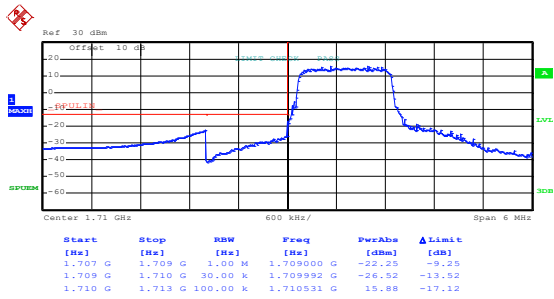
Lowest channel



Date: 12.MAR.2021 13:50:58

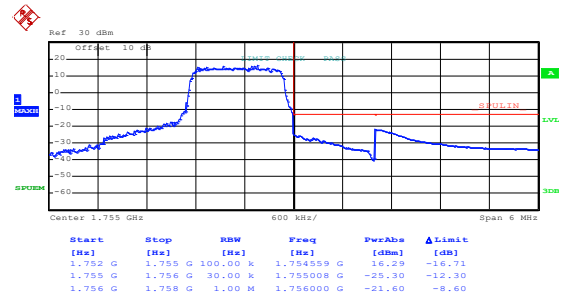
Highest channel

## QPSK & RB Size 6



Date: 12.MAR.2021 13:51:46

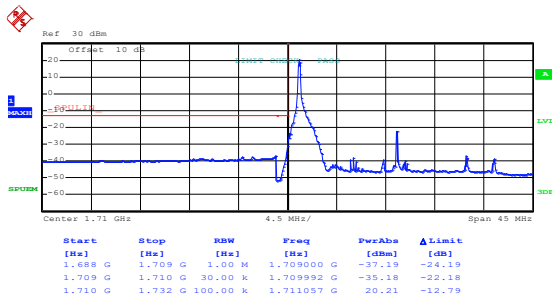
Lowest channel



Date: 12.MAR.2021 13:51:14

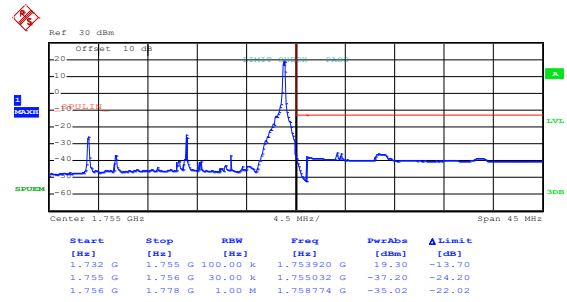
Highest channel

## LTE Band 4, BW: 20MHz 16QAM & RB Size 1



Date: 12.MAR.2021 13:49:03

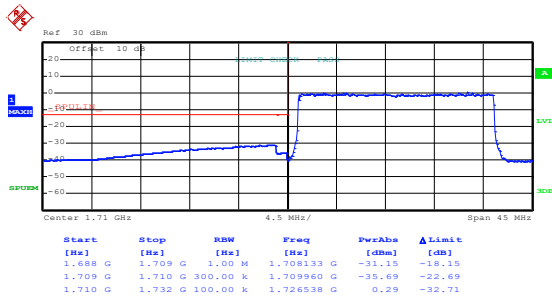
Lowest channel



Date: 12.MAR.2021 13:50:10

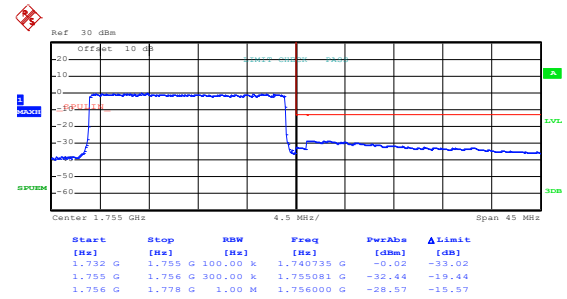
Highest channel

## 16QAM & RB Size 100



Date: 12.MAR.2021 13:49:19

Lowest channel

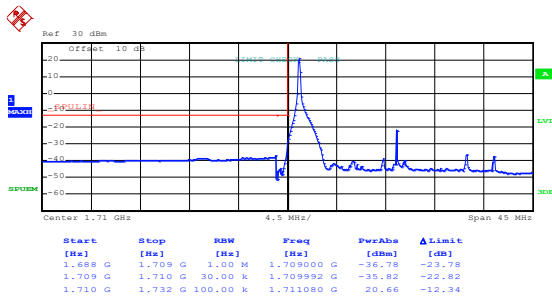


Date: 12.MAR.2021 13:49:43

Highest channel

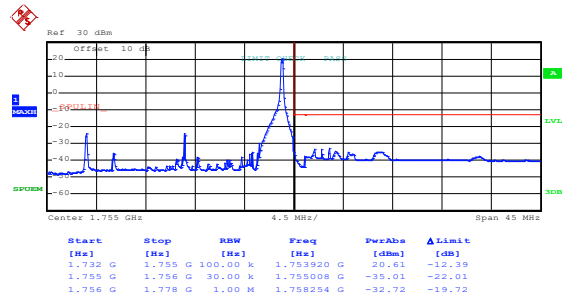


## LTE Band 4, BW: 20MHz QPSK & RB Size 1



Date: 12.MAR.2021 13:48:57

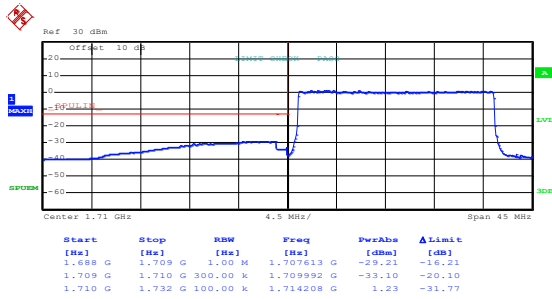
Lowest channel



Date: 12.MAR.2021 13:50:03

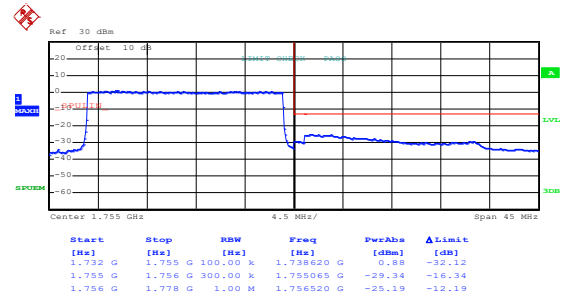
Highest channel

## QPSK & RB Size 100



Date: 12.MAR.2021 13:49:14

Lowest channel

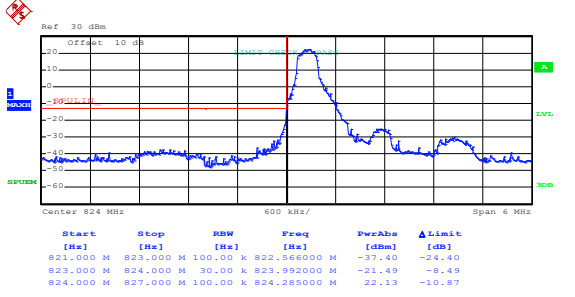


Date: 12.MAR.2021 13:49:39

Highest channel

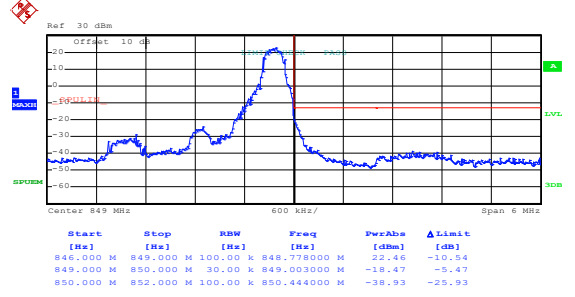
LTE Band 5 part:

LTE Band 5, BW: 1.4MHz  
16QAM & RB Size 1



Date: 12.MAR.2021 13:52:31

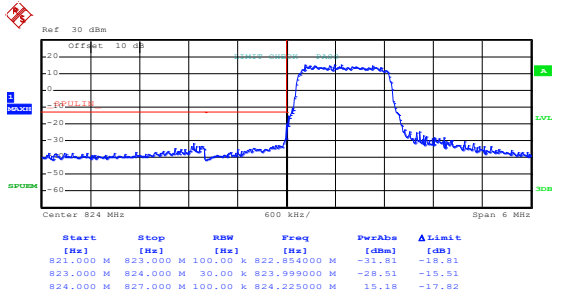
Lowest channel



Date: 12.MAR.2021 13:53:16

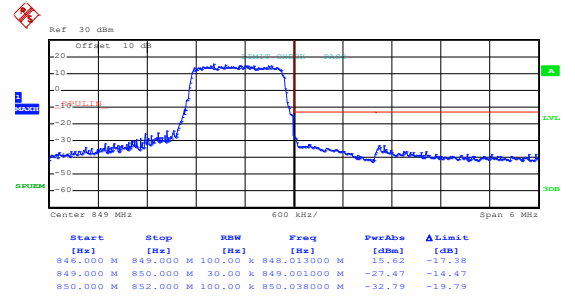
Highest channel

16QAM & RB Size 6



Date: 12.MAR.2021 13:52:44

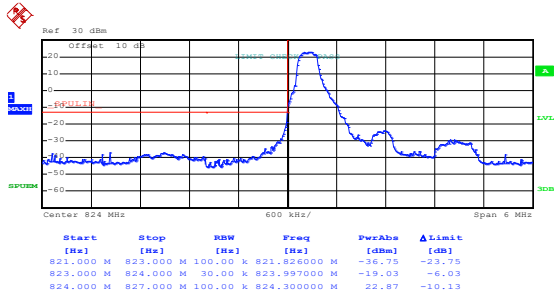
Lowest channel



Date: 12.MAR.2021 13:53:01

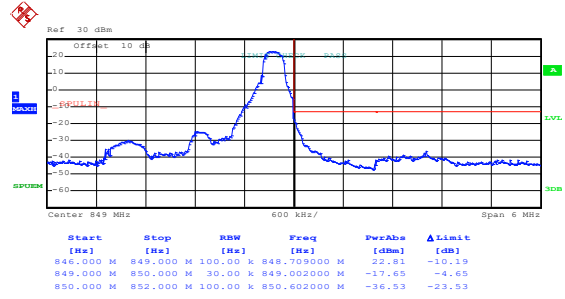
Highest channel

## LTE Band 5, BW: 1.4MHz QPSK & RB Size 1



Date: 12.MAR.2021 13:52:26

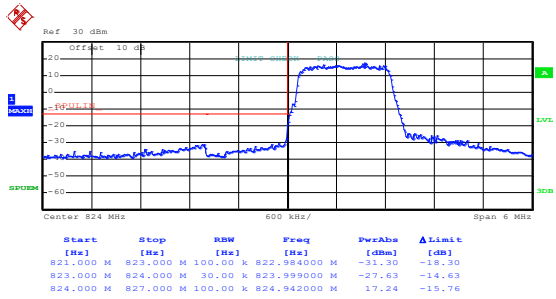
Lowest channel



Date: 12.MAR.2021 13:53:09

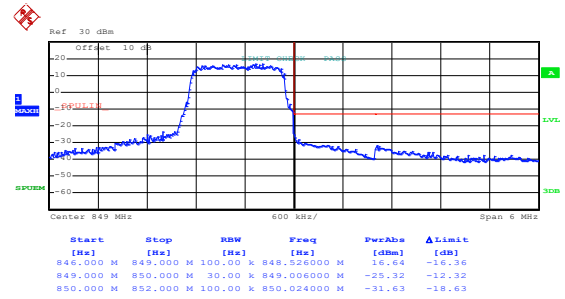
Highest channel

## QPSK & RB Size 6



Date: 12.MAR.2021 13:52:39

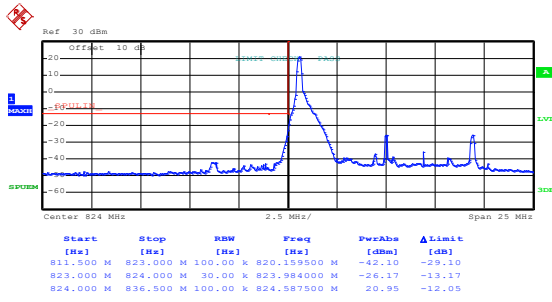
Lowest channel



Date: 12.MAR.2021 13:52:57

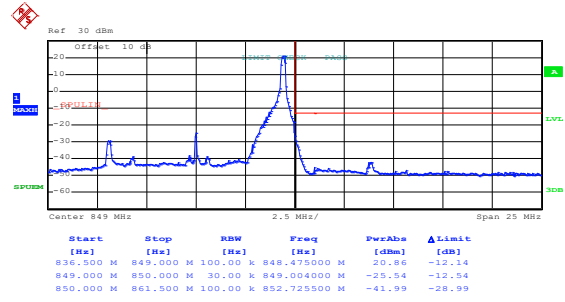
Highest channel

## LTE Band 5, BW: 10MHz 16QAM & RB Size 1



Date: 12.MAR.2021 13:54:50

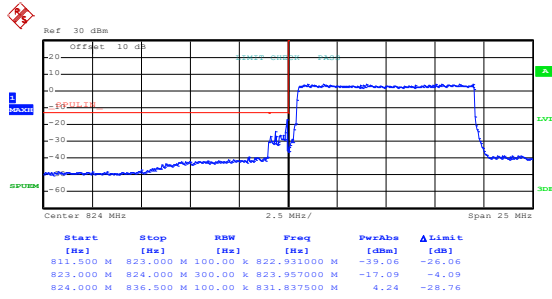
Lowest channel



Date: 12.MAR.2021 13:54:07

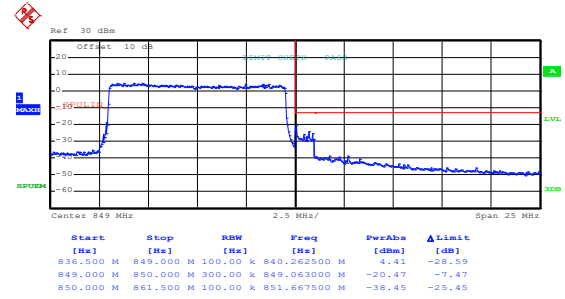
Highest channel

## 16QAM & RB Size 50



Date: 12.MAR.2021 13:55:13

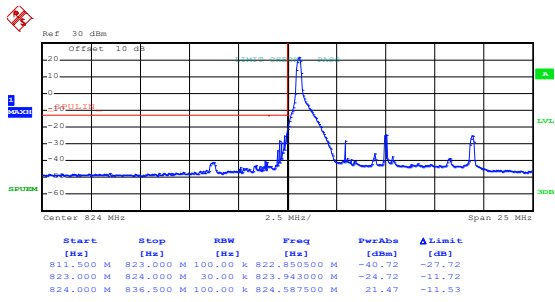
Lowest channel



Date: 12.MAR.2021 13:54:28

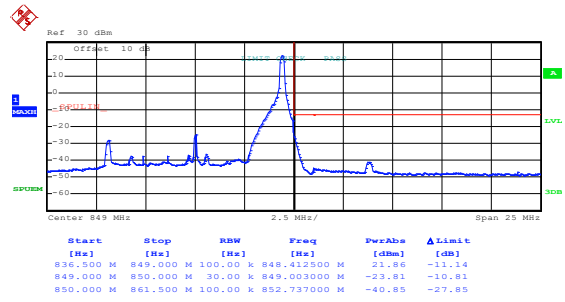
Highest channel

## LTE Band 5, BW: 10MHz QPSK & RB Size 1



Date: 12.MAR.2021 13:54:41

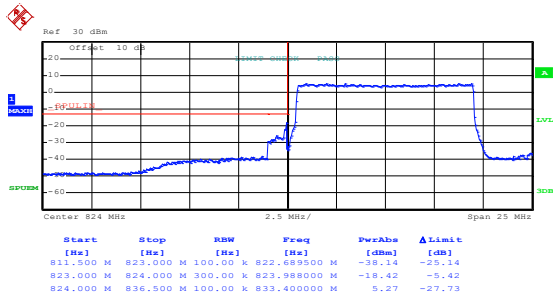
Lowest channel



Date: 12.MAR.2021 13:54:02

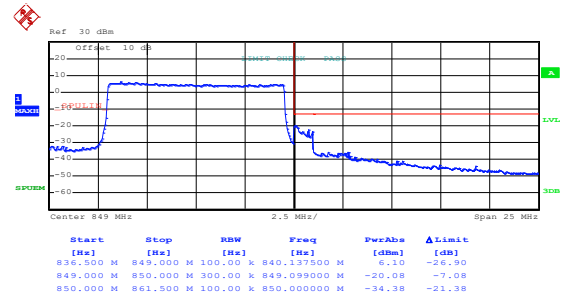
Highest channel

## QPSK & RB Size 50



Date: 12.MAR.2021 13:55:09

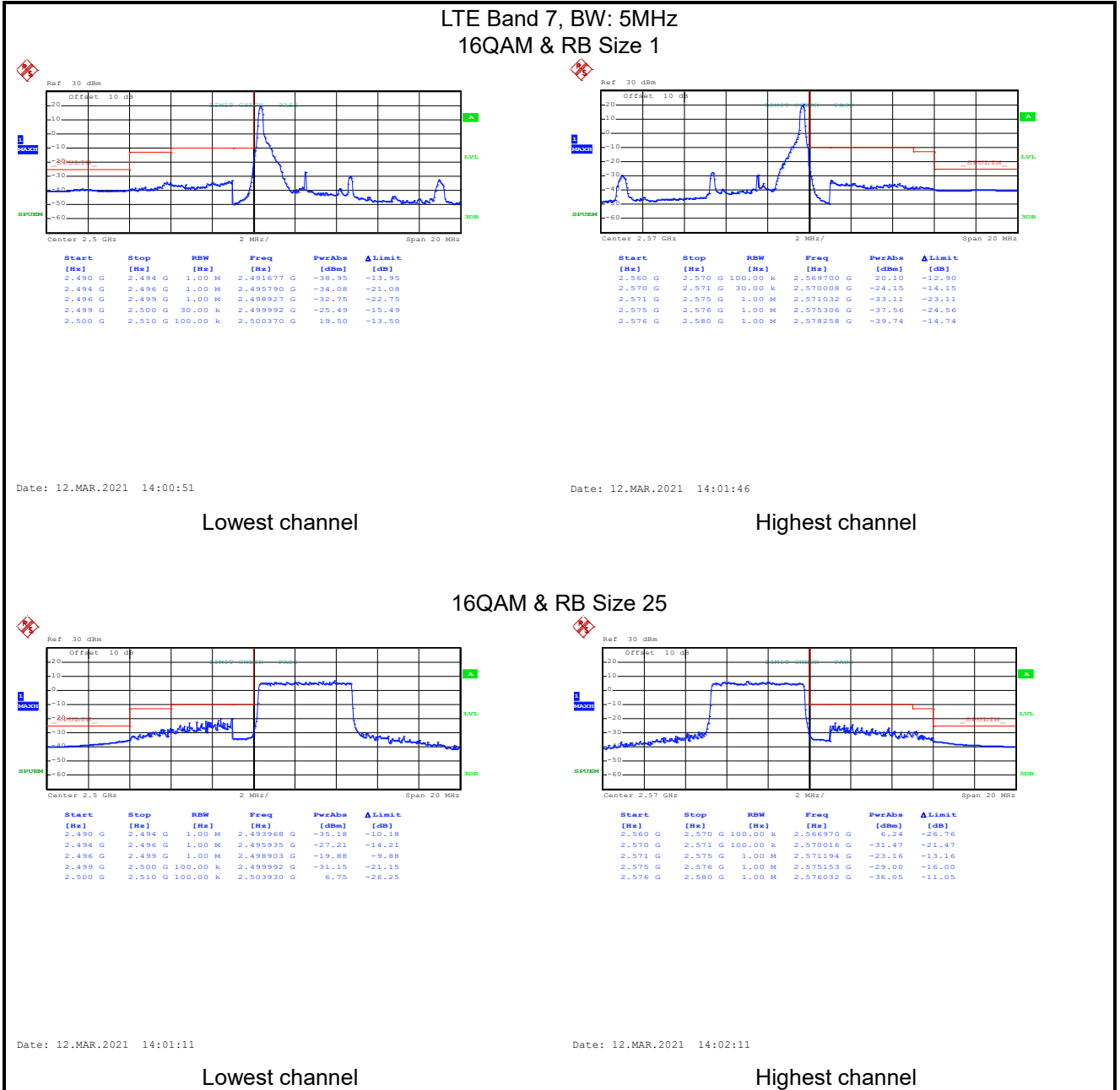
Lowest channel



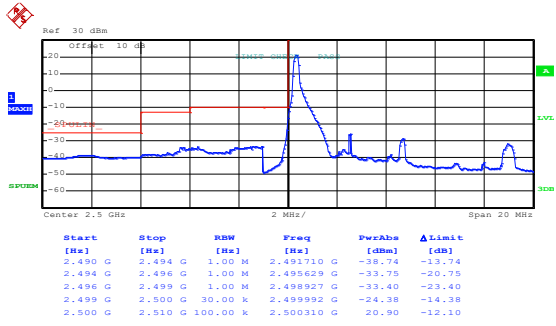
Date: 12.MAR.2021 13:54:24

Highest channel

LTE Band 7 part:

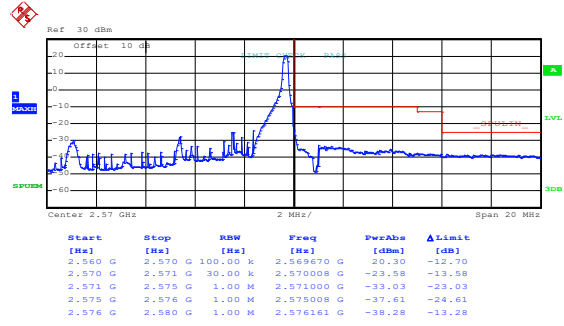


## LTE Band 7, BW: 5MHz QPSK & RB Size 1



Date: 12.MAR.2021 14:00:45

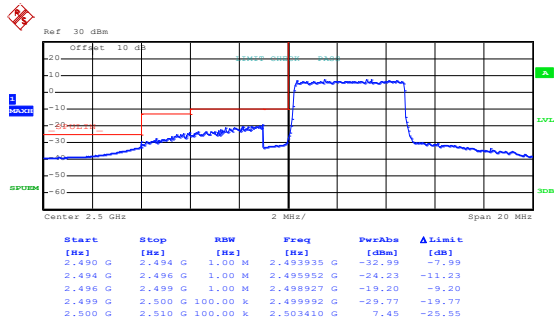
Lowest channel



Date: 12.MAR.2021 14:01:35

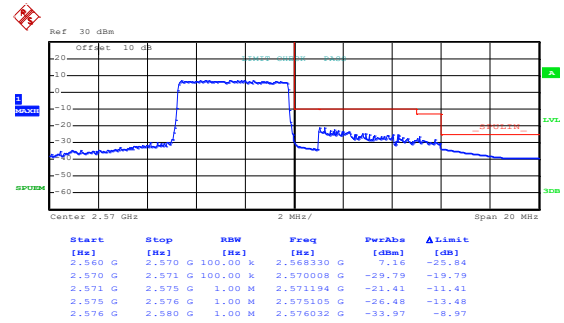
Highest channel

## QPSK & RB Size 25



Date: 12.MAR.2021 14:01:06

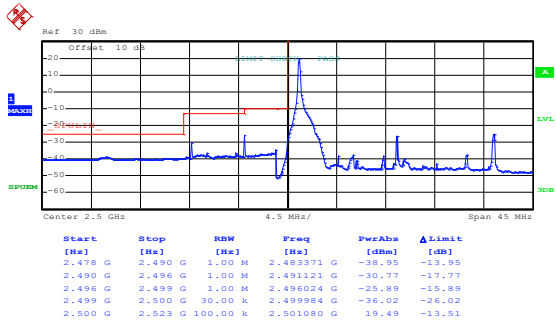
Lowest channel



Date: 12.MAR.2021 14:02:04

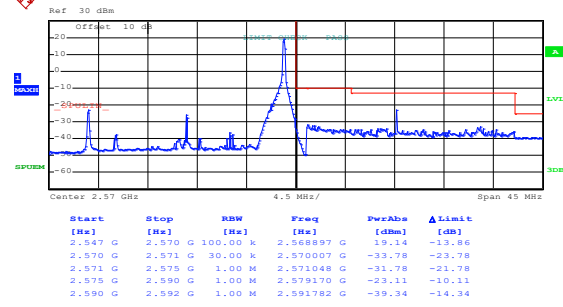
Highest channel

## LTE Band 7, BW: 20MHz 16QAM & RB Size 1



Date: 12.MAR.2021 14:03:08

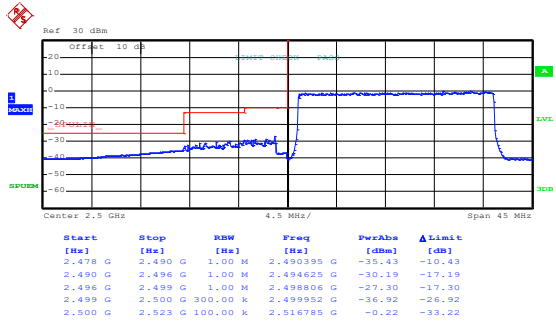
Lowest channel



Date: 12.MAR.2021 14:03:54

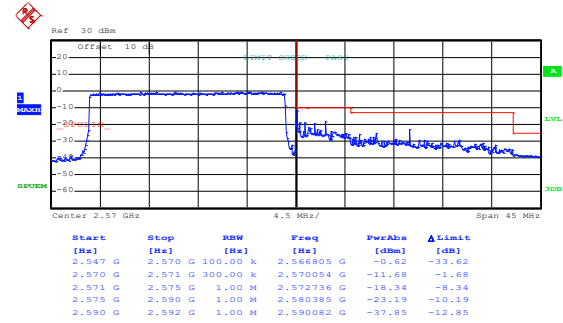
Highest channel

## 16QAM & RB Size 100



Date: 12.MAR.2021 14:03:29

Lowest channel

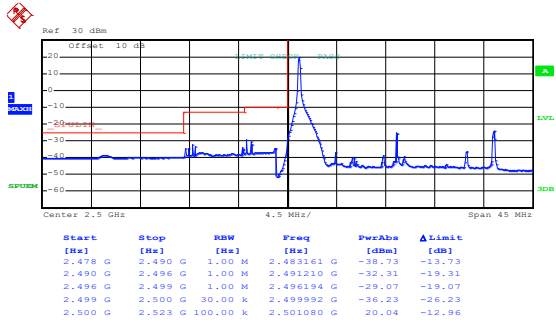


Date: 12.MAR.2021 14:04:20

Highest channel

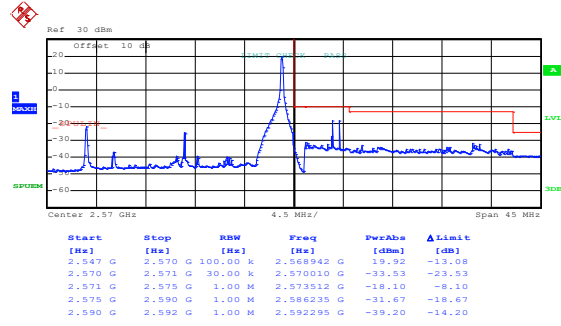


## LTE Band 7, BW: 20MHz QPSK & RB Size 1



Date: 12.MAR.2021 14:02:55

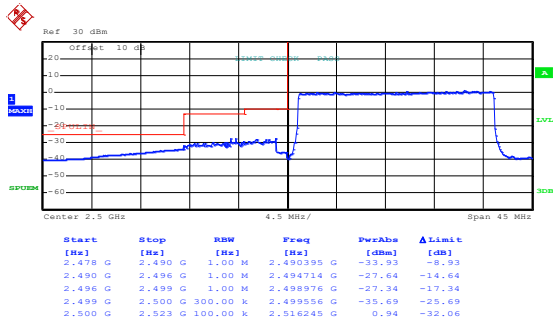
Lowest channel



Date: 12.MAR.2021 14:03:47

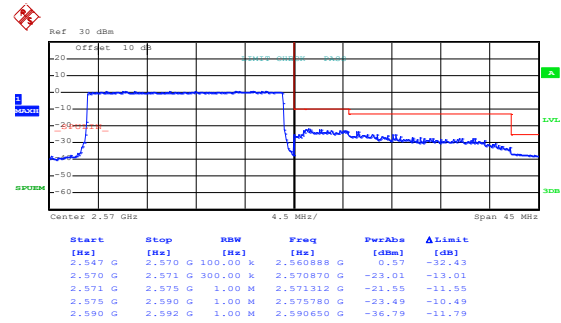
Highest channel

## QPSK & RB Size 100



Date: 12.MAR.2021 14:04:36

Lowest channel

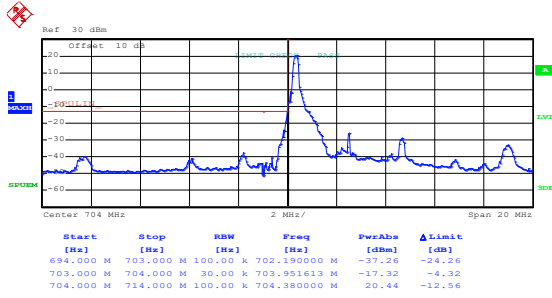


Date: 12.MAR.2021 14:04:15

Highest channel

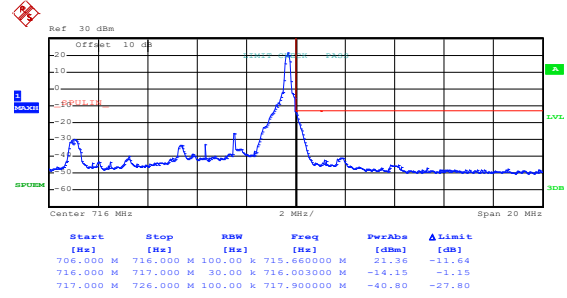
LTE Band 17 part:

LTE Band 17, BW: 5MHz  
16QAM & RB Size 1



Date: 12.MAR.2021 14:00:04

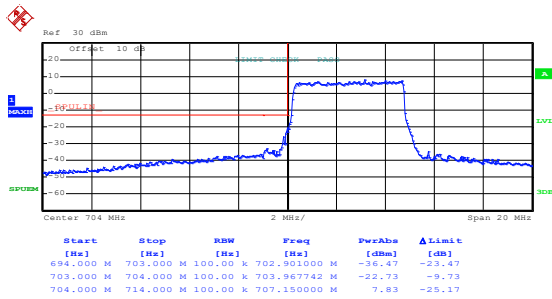
Lowest channel



Date: 12.MAR.2021 13:59:04

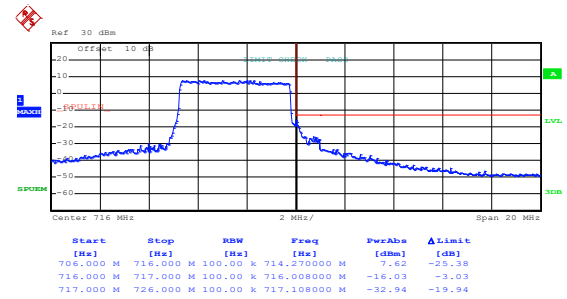
Highest channel

16QAM & RB Size 25



Date: 12.MAR.2021 14:00:20

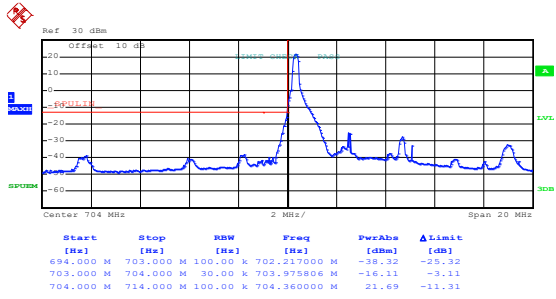
Lowest channel



Date: 12.MAR.2021 13:59:28

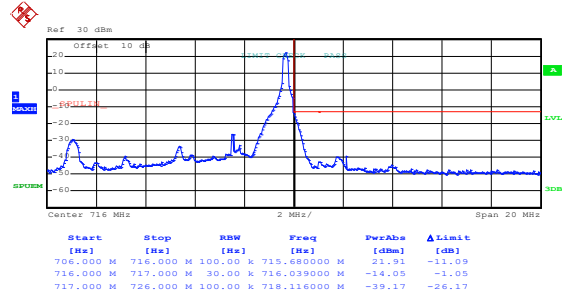
Highest channel

## LTE Band 17, BW: 5MHz QPSK & RB Size 1



Date: 12.MAR.2021 13:59:58

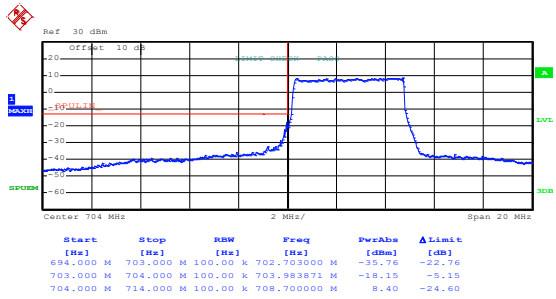
Lowest channel



Date: 12.MAR.2021 13:58:57

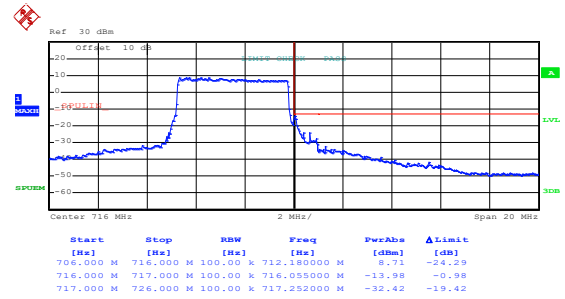
Highest channel

## QPSK & RB Size 25



Date: 12.MAR.2021 14:00:16

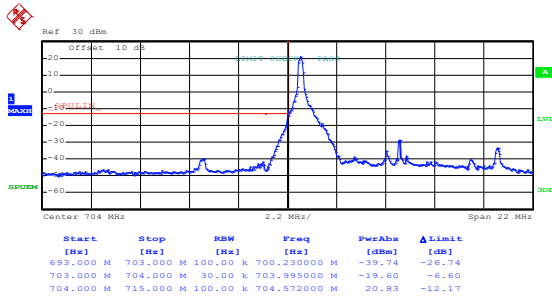
Lowest channel



Date: 12.MAR.2021 13:59:35

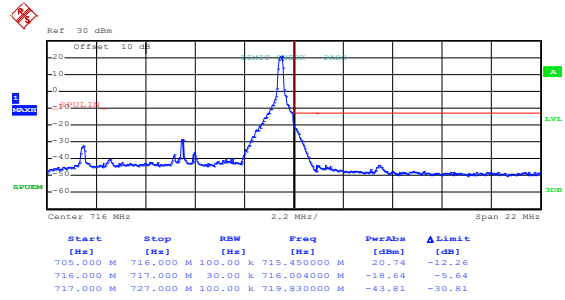
Highest channel

## LTE Band 17, BW: 10MHz 16QAM & RB Size 1



Date: 12.MAR.2021 13:56:00

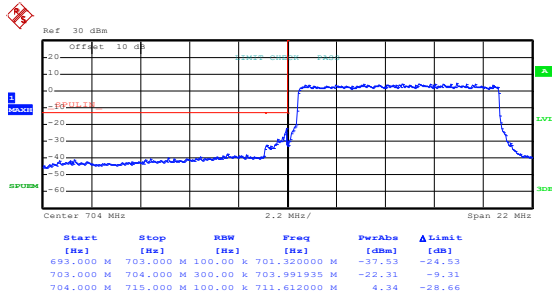
Lowest channel



Date: 12.MAR.2021 13:57:06

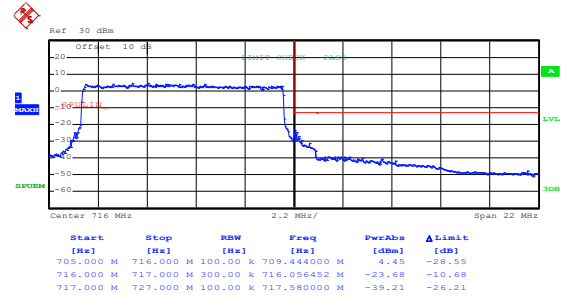
Highest channel

## 16QAM & RB Size 50



Date: 12.MAR.2021 13:56:36

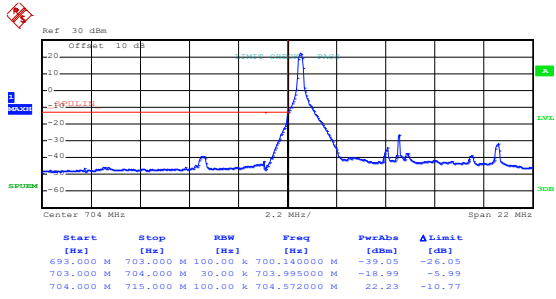
Lowest channel



Date: 12.MAR.2021 13:57:32

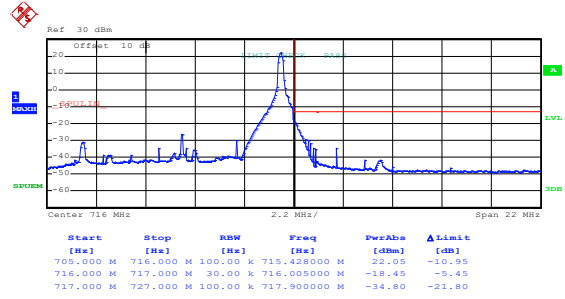
Highest channel

## LTE Band 17, BW: 10MHz QPSK & RB Size 1



Date: 12.MAR.2021 13:55:54

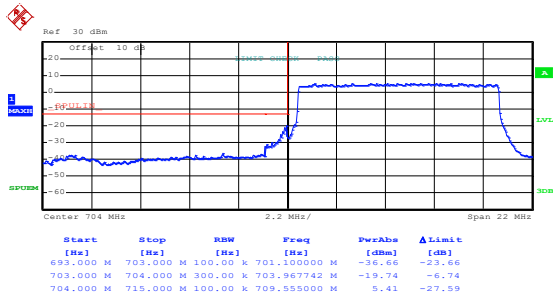
Lowest channel



Date: 12.MAR.2021 13:56:59

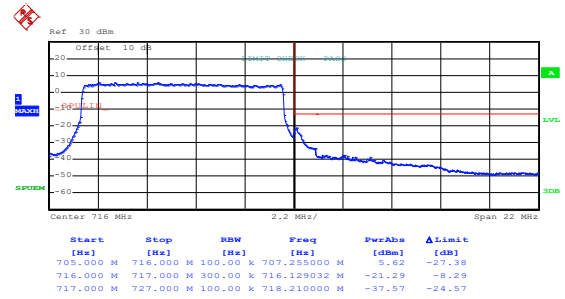
Highest channel

## QPSK & RB Size 50



Date: 12.MAR.2021 13:56:27

Lowest channel

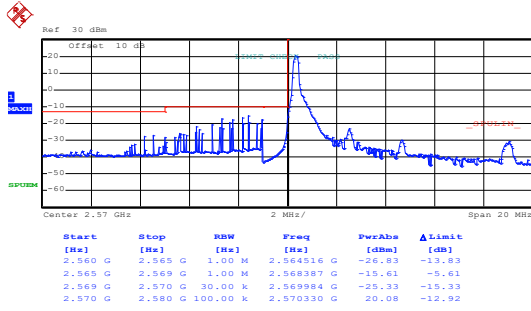


Date: 12.MAR.2021 13:57:28

Highest channel

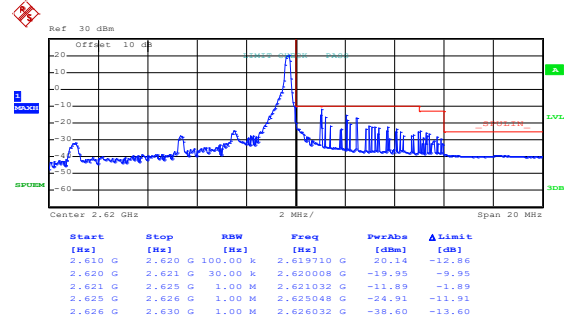
LTE Band 38 part:

LTE Band 38, BW: 5MHz  
16QAM & RB Size 1



Date: 12.MAR.2021 14:13:54

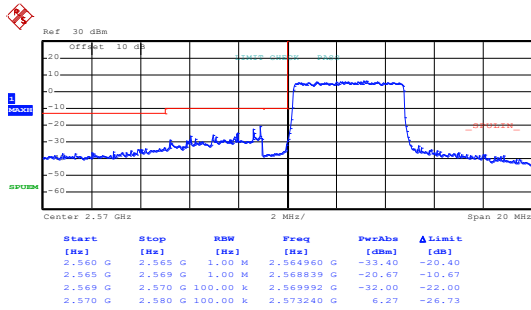
Lowest channel



Date: 12.MAR.2021 14:15:27

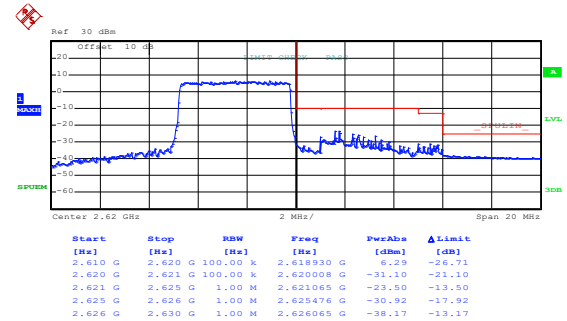
Highest channel

16QAM & RB Size 25



Date: 12.MAR.2021 14:14:18

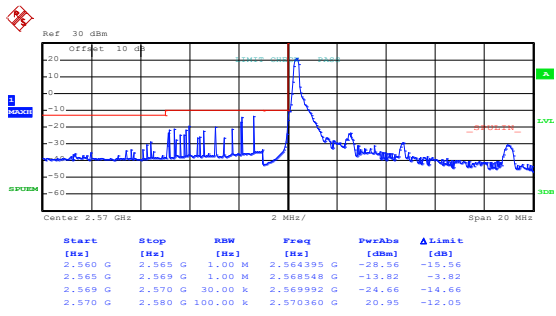
Lowest channel



Date: 12.MAR.2021 14:14:45

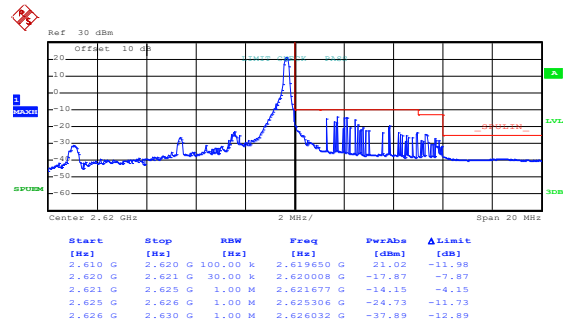
Highest channel

## LTE Band 38, BW: 5MHz QPSK & RB Size 1



Date: 12.MAR.2021 14:13:36

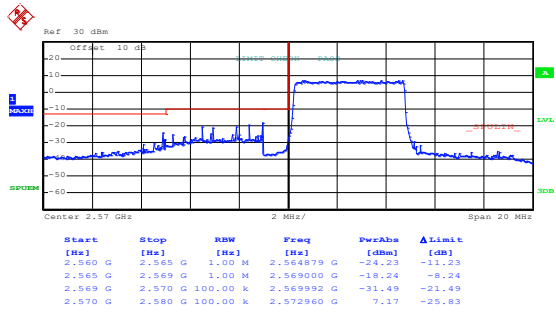
Lowest channel



Date: 12.MAR.2021 14:15:08

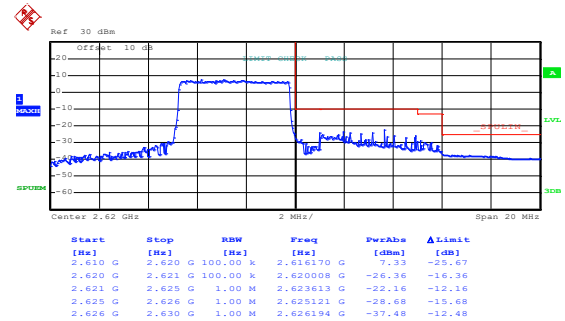
Highest channel

## QPSK & RB Size 25



Date: 12.MAR.2021 14:14:10

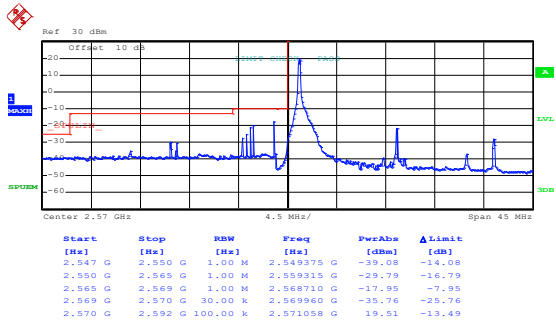
Lowest channel



Date: 12.MAR.2021 14:14:38

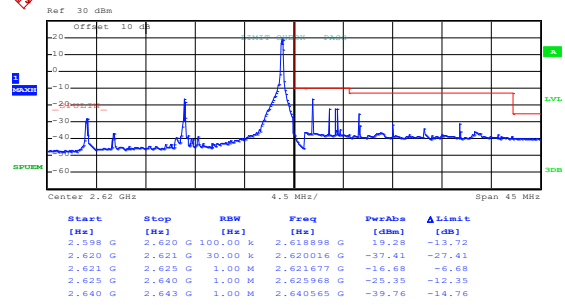
Highest channel

## LTE Band 38, BW: 20MHz 16QAM & RB Size 1



Date: 12.MAR.2021 14:05:29

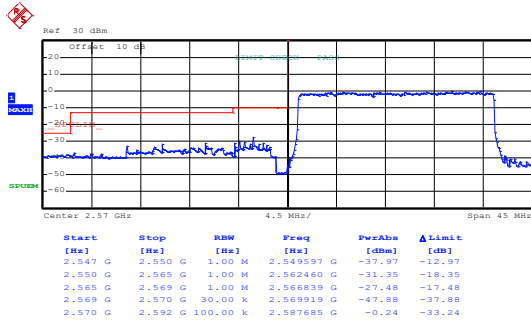
Lowest channel



Date: 12.MAR.2021 14:06:57

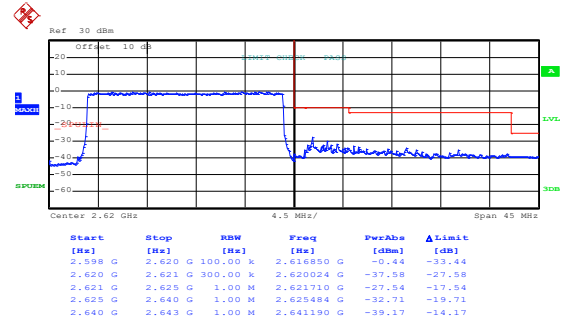
Highest channel

## 16QAM & RB Size 100



Date: 12.MAR.2021 14:05:52

Lowest channel

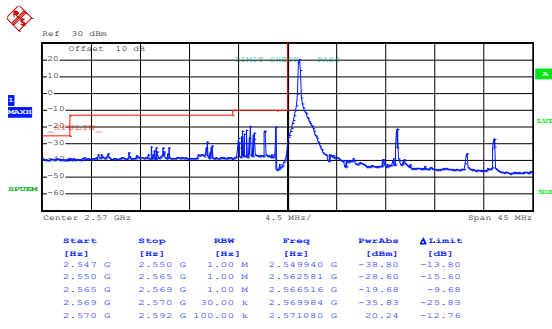


Date: 12.MAR.2021 14:06:23

Highest channel

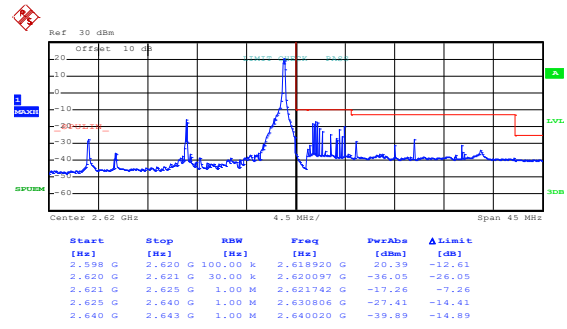


## LTE Band 38, BW: 20MHz QPSK & RB Size 1



Date: 12.MAR.2021 14:05:20

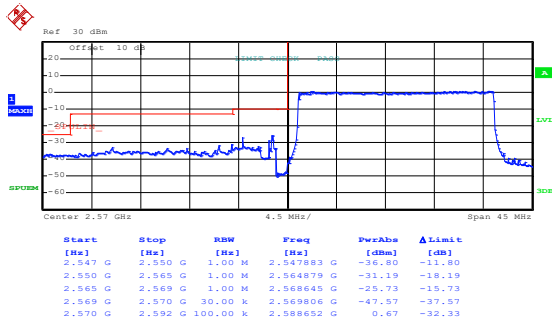
Lowest channel



Date: 12.MAR.2021 14:06:48

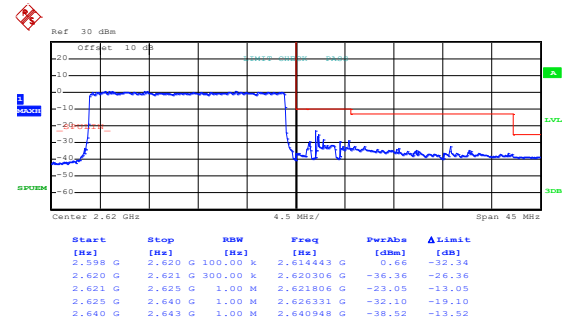
Highest channel

## QPSK & RB Size 100



Date: 12.MAR.2021 14:05:44

Lowest channel

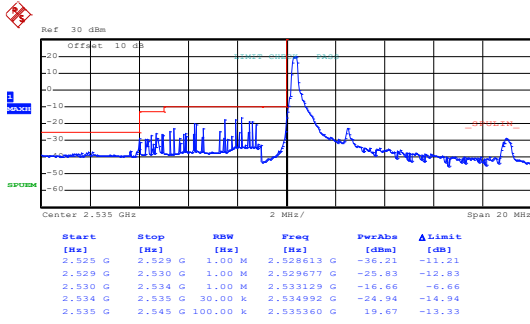


Date: 12.MAR.2021 14:06:16

Highest channel

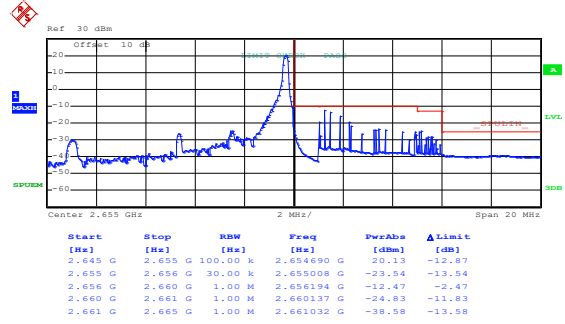
LTE Band 41 part:

LTE Band 41, BW: 5MHz  
16QAM & RB Size 1



Date: 12.MAR.2021 14:10:17

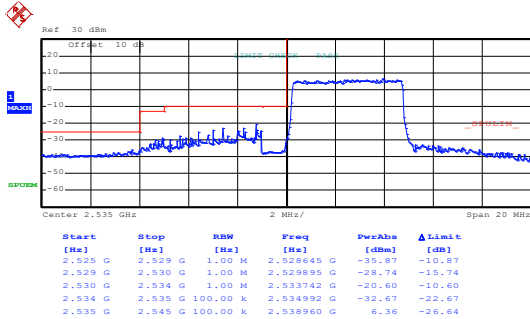
Lowest channel



Date: 12.MAR.2021 14:12:20

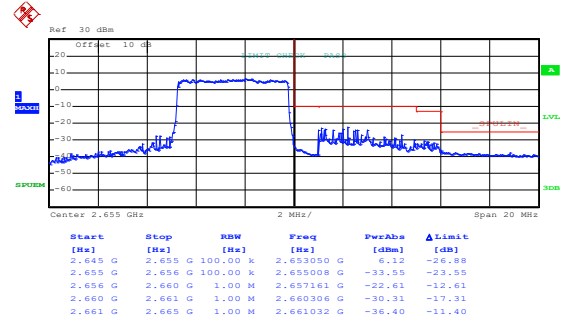
Highest channel

16QAM & RB Size 25



Date: 12.MAR.2021 14:10:42

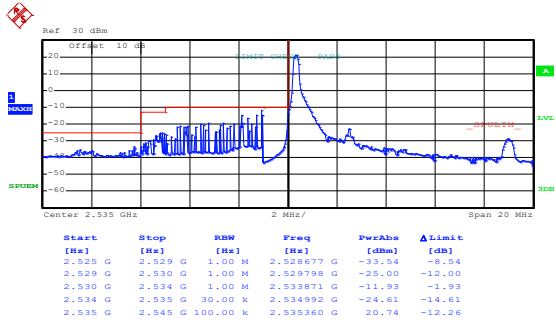
Lowest channel



Date: 12.MAR.2021 14:12:48

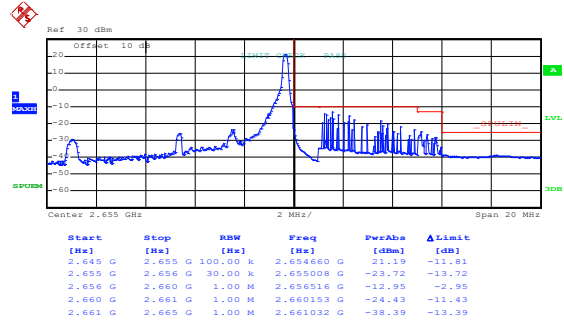
Highest channel

## LTE Band 41, BW: 5MHz QPSK & RB Size 1



Date: 12.MAR.2021 14:09:58

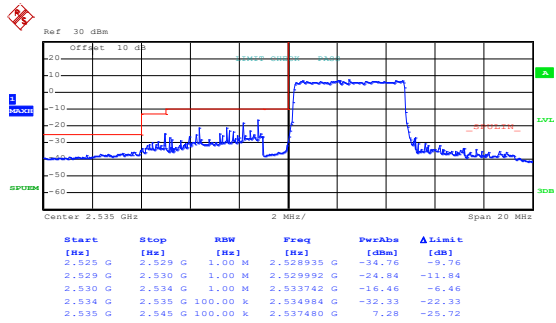
Lowest channel



Date: 12.MAR.2021 14:12:02

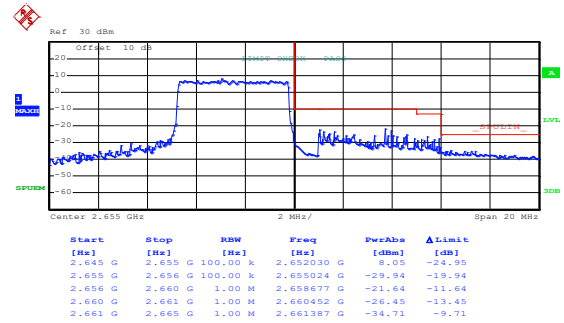
Highest channel

## QPSK & RB Size 25



Date: 12.MAR.2021 14:10:35

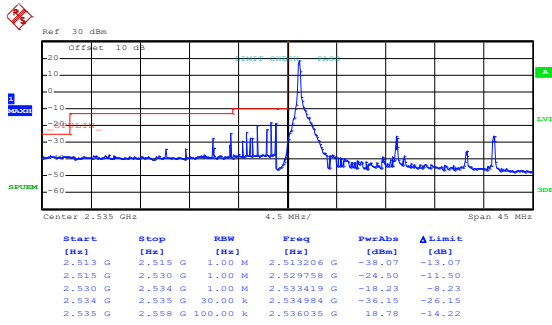
Lowest channel



Date: 12.MAR.2021 14:12:37

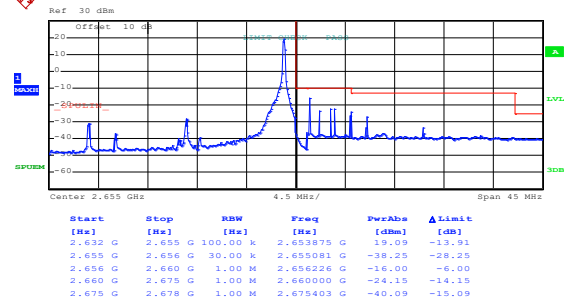
Highest channel

## LTE Band 41, BW: 20MHz 16QAM & RB Size 1



Date: 12.MAR.2021 14:07:40

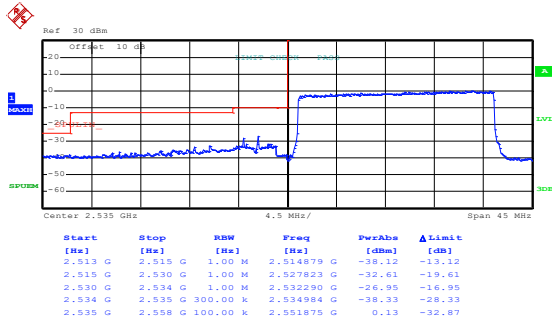
Lowest channel



Date: 12.MAR.2021 14:09:02

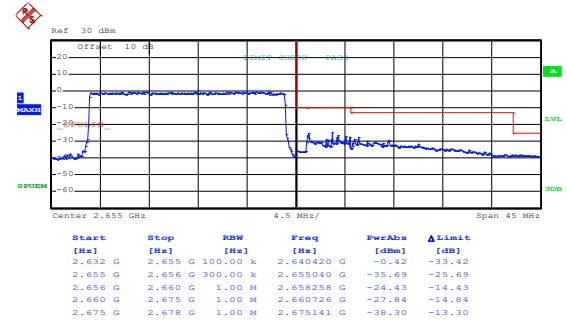
Highest channel

## 16QAM & RB Size 100



Date: 12.MAR.2021 14:08:03

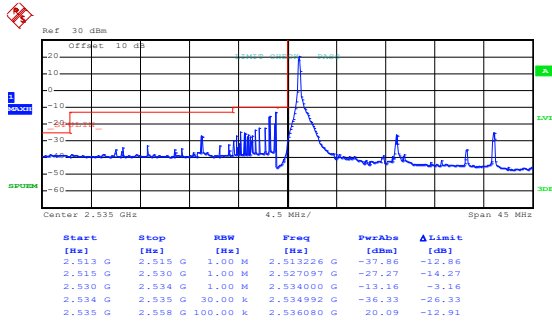
Lowest channel



Date: 12.MAR.2021 14:08:38

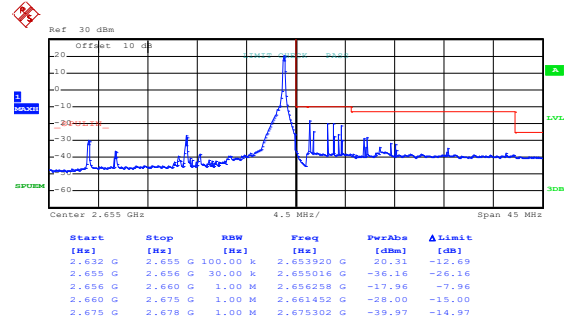
Highest channel

## LTE Band 41, BW: 20MHz QPSK & RB Size 1



Date: 12.MAR.2021 14:07:30

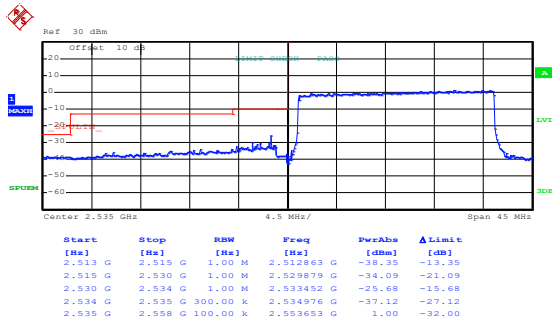
Lowest channel



Date: 12.MAR.2021 14:08:54

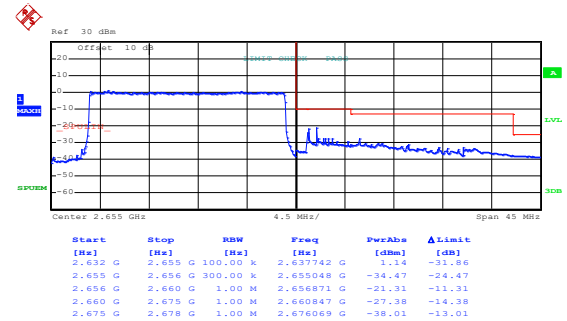
Highest channel

## QPSK & RB Size 100



Date: 12.MAR.2021 14:07:55

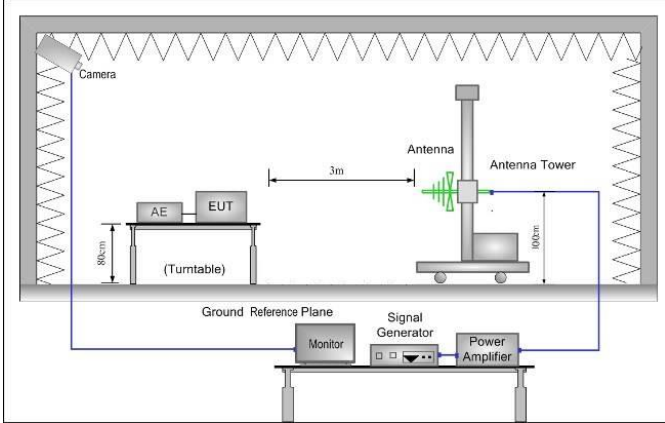
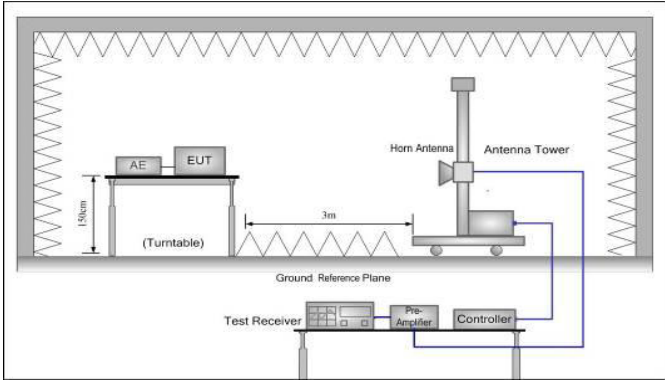
Lowest channel



Date: 12.MAR.2021 14:08:25

Highest channel

### 6.5 Field strength of spurious radiation measurement

|                          |  |
|--------------------------|--|
| <p>Test Requirement:</p> | <p>Part 22.917(a), Part 24.238 (a), Part 27.53(g), Part 27.53(m), Part 27.53(h)</p>  |
| <p>Limit:</p>            | <p>LTE Band 2 &amp; 4 &amp; 5 &amp; 17:<br/>         The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least <math>43 + 10 \log_{10}(P)</math> dB (-13 dBm).<br/>         LTE Band 7 &amp; 38 &amp; 41:<br/>         For mobile digital stations, the attenuation factor shall be not less than <math>40 + 10 \log (P)</math> dB on all frequencies between the channel edge and 5 megahertz from the channel edge, <math>43 + 10 \log (P)</math> dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and <math>55 + 10 \log (P)</math> dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that <math>43 + 10 \log (P)</math> dB on all frequencies between 2490.5 MHz and 2496 MHz and <math>55 + 10 \log (P)</math> dB at or below 2490.5 MHz.</p> |
| <p>Test setup:</p>       | <p>Below 1GHz</p>  <p>Above 1GHz</p>    |
| <p>Test Procedure:</p>   | <ol style="list-style-type: none"> <li>1. The EUT was placed on the top of a rotating table 0.8m(below 1GHz)/1.5m(above 1GHz) above the ground at a 3 meter camber. 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> <p>ERP / EIRP = S.G. output (dBm) + Antenna Gain(dB/dBi) – Cable Loss (dB)</p> |
| Test Instruments: | Refer to section 5.10 for details  |
| Test mode:        | Refer to section 5.3 for details.  |
| Test results:     | Passed   |

**Measurement Data:**
**LTE Band 2 part:**

| <b>Band 2 (1.4MHz)</b>   |                                  |                               |                  |                               |                  |                  |              |
|--|----------------------------------|-------------------------------|------------------|-------------------------------|------------------|------------------|--------------|
| <b>Lowest channel</b>  |                                  |                               |                  |                               |                  |                  |              |
| Frequency (MHz)  | Level at antenna terminals (dBm) | Substitute antenna gain (dBi) | Cable Loss (dBi) | Spurious Emission level (dBm) | Limit Line (dBm) | Over Limit (dBm) | Polarization |
| 3701.40  | -47.79                           | 12.64                         | 0.75             | -35.90                        | -13.00           | -22.90           | Vertical     |
| 5552.10  | -53.54                           | 12.76                         | 1.13             | -41.91                        | -13.00           | -28.91           | Vertical     |
| 7402.00  | -46.10                           | 11.44                         | 1.63             | -36.29                        | -13.00           | -23.29           | Vertical     |
| 3701.40  | -50.06                           | 12.64                         | 0.75             | -38.17                        | -13.00           | -25.17           | Horizontal   |
| 5552.10  | -53.32                           | 12.76                         | 1.13             | -41.69                        | -13.00           | -28.69           | Horizontal   |
| 7402.00  | -47.01                           | 11.44                         | 1.63             | -37.20                        | -13.00           | -24.20           | Horizontal   |
| <b>Middle channel</b>  |                                  |                               |                  |                               |                  |                  |              |
| Frequency (MHz)  | Level at antenna terminals (dBm) | Substitute antenna gain (dBi) | Cable Loss (dBi) | Spurious Emission level (dBm) | Limit Line (dBm) | Over Limit (dBm) | Polarization |
| 3760.00  | -47.96                           | 12.71                         | 0.79             | -36.04                        | -13.00           | -23.04           | Vertical     |
| 5640.00  | -53.58                           | 12.87                         | 1.15             | -41.86                        | -13.00           | -28.86           | Vertical     |
| 7520.00  | -46.06                           | 11.48                         | 1.66             | -36.24                        | -13.00           | -23.24           | Vertical     |
| 3760.00  | -50.12                           | 12.71                         | 0.79             | -38.20                        | -13.00           | -25.20           | Horizontal   |
| 5640.00  | -53.27                           | 12.87                         | 1.15             | -41.55                        | -13.00           | -28.55           | Horizontal   |
| 7520.00  | -46.91                           | 11.48                         | 1.66             | -37.09                        | -13.00           | -24.09           | Horizontal   |
| <b>Highest channel</b>   |                                  |                               |                  |                               |                  |                  |              |
| Frequency (MHz)  | Level at antenna terminals (dBm) | Substitute antenna gain (dBi) | Cable Loss (dBi) | Spurious Emission level (dBm) | Limit Line (dBm) | Over Limit (dBm) | Polarization |
| 3816.60  | -47.42                           | 12.78                         | 0.81             | -35.45                        | -13.00           | -22.45           | Vertical     |
| 5724.90  | -54.08                           | 12.97                         | 1.19             | -42.30                        | -13.00           | -29.30           | Vertical     |
| 7633.20  | -45.63                           | 11.34                         | 1.71             | -36.00                        | -13.00           | -23.00           | Vertical     |
| 3816.60  | -50.17                           | 12.78                         | 0.81             | -38.20                        | -13.00           | -25.20           | Horizontal   |
| 5724.90  | -53.54                           | 12.97                         | 1.19             | -41.76                        | -13.00           | -28.76           | Horizontal   |
| 7633.20  | -47.28                           | 11.34                         | 1.71             | -37.65                        | -13.00           | -24.65           | Horizontal   |
| <i>Remark:</i>   |                                  |                               |                  |                               |                  |                  |              |
| <i>The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.</i> |                                  |                               |                  |                               |                  |                  |              |



| <b>Band 2 (20MHz)</b>  |                                  |                               |                  |                               |                  |                  |              |
|--|----------------------------------|-------------------------------|------------------|-------------------------------|------------------|------------------|--------------|
| <b>Lowest channel</b>  |                                  |                               |                  |                               |                  |                  |              |
| Frequency (MHz)  | Level at antenna terminals (dBm) | Substitute antenna gain (dBi) | Cable Loss (dBi) | Spurious Emission level (dBm) | Limit Line (dBm) | Over Limit (dBm) | Polarization |
| 3720.00  | -47.37                           | 12.66                         | 0.77             | -35.48                        | -13.00           | -22.48           | Vertical     |
| 5580.00  | -53.62                           | 12.80                         | 1.15             | -41.97                        | -13.00           | -28.97           | Vertical     |
| 7440.00  | -45.56                           | 11.46                         | 1.64             | -35.74                        | -13.00           | -22.74           | Vertical     |
| 3720.00  | -49.62                           | 12.66                         | 0.77             | -37.73                        | -13.00           | -24.73           | Horizontal   |
| 5580.00  | -53.26                           | 12.80                         | 1.15             | -41.61                        | -13.00           | -28.61           | Horizontal   |
| 7440.00  | -47.30                           | 11.46                         | 1.64             | -37.48                        | -13.00           | -24.48           | Horizontal   |
| <b>Middle channel</b>  |                                  |                               |                  |                               |                  |                  |              |
| Frequency (MHz)  | Level at antenna terminals (dBm) | Substitute antenna gain (dBi) | Cable Loss (dBi) | Spurious Emission level (dBm) | Limit Line (dBm) | Over Limit (dBm) | Polarization |
| 3760.00  | -47.28                           | 12.71                         | 0.79             | -35.36                        | -13.00           | -22.36           | Vertical     |
| 5640.00  | -53.81                           | 12.87                         | 1.15             | -42.09                        | -13.00           | -29.09           | Vertical     |
| 7520.00  | -45.17                           | 11.48                         | 1.66             | -35.35                        | -13.00           | -22.35           | Vertical     |
| 3760.00  | -49.28                           | 12.71                         | 0.79             | -37.36                        | -13.00           | -24.36           | Horizontal   |
| 5640.00  | -53.33                           | 12.87                         | 1.15             | -41.61                        | -13.00           | -28.61           | Horizontal   |
| 7520.00  | -47.25                           | 11.48                         | 1.66             | -37.43                        | -13.00           | -24.43           | Horizontal   |
| <b>Highest channel</b>   |                                  |                               |                  |                               |                  |                  |              |
| Frequency (MHz)  | Level at antenna terminals (dBm) | Substitute antenna gain (dBi) | Cable Loss (dBi) | Spurious Emission level (dBm) | Limit Line (dBm) | Over Limit (dBm) | Polarization |
| 3800.00  | -47.14                           | 12.76                         | 0.79             | -35.17                        | -13.00           | -22.17           | Vertical     |
| 5700.00  | -54.05                           | 12.94                         | 1.18             | -42.29                        | -13.00           | -29.29           | Vertical     |
| 7600.00  | -44.85                           | 11.38                         | 1.69             | -35.16                        | -13.00           | -22.16           | Vertical     |
| 3800.00  | -49.79                           | 12.76                         | 0.79             | -37.82                        | -13.00           | -24.82           | Horizontal   |
| 5700.00  | -53.32                           | 12.94                         | 1.18             | -41.56                        | -13.00           | -28.56           | Horizontal   |
| 7600.00  | -47.00                           | 11.38                         | 1.69             | -37.31                        | -13.00           | -24.31           | Horizontal   |
| <i>Remark:</i>   |                                  |                               |                  |                               |                  |                  |              |
| <i>The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.</i> |                                  |                               |                  |                               |                  |                  |              |

**LTE Band 4 part:**

| Band 4 (1.4MHz)  |                                  |                               |                  |                               |                  |                  |              |
|--|----------------------------------|-------------------------------|------------------|-------------------------------|------------------|------------------|--------------|
| Lowest channel   |                                  |                               |                  |                               |                  |                  |              |
| Frequency (MHz)  | Level at antenna terminals (dBm) | Substitute antenna gain (dBi) | Cable Loss (dBi) | Spurious Emission level (dBm) | Limit Line (dBm) | Over Limit (dBm) | Polarization |
| 3421.40  | -54.20                           | 12.24                         | 0.70             | -42.66                        | -13.00           | -29.66           | Vertical     |
| 5132.10  | -55.60                           | 12.92                         | 1.01             | -43.69                        | -13.00           | -30.69           | Vertical     |
| 6842.80  | -47.61                           | 11.42                         | 1.53             | -37.72                        | -13.00           | -24.72           | Vertical     |
| 3421.40  | -47.27                           | 12.24                         | 0.70             | -35.73                        | -13.00           | -22.73           | Horizontal   |
| 5132.10  | -55.27                           | 12.92                         | 1.01             | -43.36                        | -13.00           | -30.36           | Horizontal   |
| 6842.80  | -47.45                           | 11.42                         | 1.53             | -37.56                        | -13.00           | -24.56           | Horizontal   |
| Middle channel   |                                  |                               |                  |                               |                  |                  |              |
| Frequency (MHz)  | Level at antenna terminals (dBm) | Substitute antenna gain (dBi) | Cable Loss (dBi) | Spurious Emission level (dBm) | Limit Line (dBm) | Over Limit (dBm) | Polarization |
| 3465.00  | -54.11                           | 12.33                         | 0.72             | -42.50                        | -13.00           | -29.50           | Vertical     |
| 5197.50  | -55.22                           | 12.88                         | 1.04             | -43.38                        | -13.00           | -30.38           | Vertical     |
| 6930.00  | -47.62                           | 11.30                         | 1.56             | -37.88                        | -13.00           | -24.88           | Vertical     |
| 3465.00  | -47.37                           | 12.33                         | 0.72             | -35.76                        | -13.00           | -22.76           | Horizontal   |
| 5197.50  | -55.01                           | 12.88                         | 1.04             | -43.17                        | -13.00           | -30.17           | Horizontal   |
| 6930.00  | -47.35                           | 11.30                         | 1.56             | -37.61                        | -13.00           | -24.61           | Horizontal   |
| Highest channel  |                                  |                               |                  |                               |                  |                  |              |
| Frequency (MHz)  | Level at antenna terminals (dBm) | Substitute antenna gain (dBi) | Cable Loss (dBi) | Spurious Emission level (dBm) | Limit Line (dBm) | Over Limit (dBm) | Polarization |
| 3508.60  | -54.73                           | 12.41                         | 0.74             | -43.06                        | -13.00           | -30.06           | Vertical     |
| 5262.90  | -54.98                           | 12.84                         | 1.07             | -43.21                        | -13.00           | -30.21           | Vertical     |
| 7017.20  | -47.79                           | 11.21                         | 1.58             | -38.16                        | -13.00           | -25.16           | Vertical     |
| 3508.60  | -47.16                           | 12.41                         | 0.74             | -35.49                        | -13.00           | -22.49           | Horizontal   |
| 5262.90  | -54.65                           | 12.84                         | 1.07             | -42.88                        | -13.00           | -29.88           | Horizontal   |
| 7017.20  | -47.29                           | 11.21                         | 1.58             | -37.66                        | -13.00           | -24.66           | Horizontal   |
| Remark:<br>The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report. |                                  |                               |                  |                               |                  |                  |              |

| Band 4 (20MHz)   |                                  |                               |                  |                               |                  |                  |              |
|--|----------------------------------|-------------------------------|------------------|-------------------------------|------------------|------------------|--------------|
| Lowest channel   |                                  |                               |                  |                               |                  |                  |              |
| Frequency (MHz)  | Level at antenna terminals (dBm) | Substitute antenna gain (dBi) | Cable Loss (dBi) | Spurious Emission level (dBm) | Limit Line (dBm) | Over Limit (dBm) | Polarization |
| 3440.00  | -55.07                           | 12.28                         | 0.71             | -43.50                        | -13.00           | -30.50           | Vertical     |
| 5160.00  | -55.36                           | 12.90                         | 1.03             | -43.49                        | -13.00           | -30.49           | Vertical     |
| 6880.00  | -47.59                           | 11.37                         | 1.54             | -37.76                        | -13.00           | -24.76           | Vertical     |
| 3440.00  | -47.45                           | 12.28                         | 0.71             | -35.88                        | -13.00           | -22.88           | Horizontal   |
| 5160.00  | -54.81                           | 12.90                         | 1.03             | -42.94                        | -13.00           | -29.94           | Horizontal   |
| 6880.00  | -47.73                           | 11.37                         | 1.54             | -37.90                        | -13.00           | -24.90           | Horizontal   |
| Middle channel   |                                  |                               |                  |                               |                  |                  |              |
| Frequency (MHz)  | Level at antenna terminals (dBm) | Substitute antenna gain (dBi) | Cable Loss (dBi) | Spurious Emission level (dBm) | Limit Line (dBm) | Over Limit (dBm) | Polarization |
| 3465.00  | -55.02                           | 12.33                         | 0.72             | -43.41                        | -13.00           | -30.41           | Vertical     |
| 5197.50  | -55.81                           | 12.88                         | 1.04             | -43.97                        | -13.00           | -30.97           | Vertical     |
| 6930.00  | -47.61                           | 11.30                         | 1.56             | -37.87                        | -13.00           | -24.87           | Vertical     |
| 3465.00  | -47.76                           | 12.33                         | 0.72             | -36.15                        | -13.00           | -23.15           | Horizontal   |
| 5197.50  | -55.07                           | 12.88                         | 1.04             | -43.23                        | -13.00           | -30.23           | Horizontal   |
| 6930.00  | -47.15                           | 11.30                         | 1.56             | -37.41                        | -13.00           | -24.41           | Horizontal   |
| Highest channel  |                                  |                               |                  |                               |                  |                  |              |
| Frequency (MHz)  | Level at antenna terminals (dBm) | Substitute antenna gain (dBi) | Cable Loss (dBi) | Spurious Emission level (dBm) | Limit Line (dBm) | Over Limit (dBm) | Polarization |
| 3490.00  | -55.22                           | 12.38                         | 0.73             | -43.57                        | -13.00           | -30.57           | Vertical     |
| 5235.00  | -55.34                           | 12.86                         | 1.06             | -43.54                        | -13.00           | -30.54           | Vertical     |
| 6980.00  | -47.84                           | 11.23                         | 1.57             | -38.18                        | -13.00           | -25.18           | Vertical     |
| 3490.00  | -48.03                           | 12.38                         | 0.73             | -36.38                        | -13.00           | -23.38           | Horizontal   |
| 5235.00  | -54.75                           | 12.86                         | 1.06             | -42.95                        | -13.00           | -29.95           | Horizontal   |
| 6980.00  | -47.28                           | 11.23                         | 1.57             | -37.62                        | -13.00           | -24.62           | Horizontal   |
| Remark:<br>The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report. |                                  |                               |                  |                               |                  |                  |              |

| <b>Band 5 (1.4MHz)</b>   |                                  |                               |                  |                               |                  |                  |              |
|--|----------------------------------|-------------------------------|------------------|-------------------------------|------------------|------------------|--------------|
| <b>Lowest channel</b>  |                                  |                               |                  |                               |                  |                  |              |
| Frequency (MHz)  | Level at antenna terminals (dBm) | Substitute antenna gain (dBi) | Cable Loss (dBi) | Spurious Emission level (dBm) | Limit Line (dBm) | Over Limit (dBm) | Polarization |
| 1649.40  | -58.77                           | 9.57                          | 0.20             | -49.40                        | -13.00           | -36.40           | Vertical     |
| 2474.10  | -58.49                           | 10.86                         | 0.43             | -48.06                        | -13.00           | -35.06           | Vertical     |
| 3298.80  | -57.94                           | 12.00                         | 0.64             | -46.58                        | -13.00           | -33.58           | Vertical     |
| 1649.40  | -55.66                           | 9.57                          | 0.20             | -46.29                        | -13.00           | -33.29           | Horizontal   |
| 2474.10  | -59.77                           | 10.86                         | 0.43             | -49.34                        | -13.00           | -36.34           | Horizontal   |
| 3298.80  | -58.29                           | 12.00                         | 0.64             | -46.93                        | -13.00           | -33.93           | Horizontal   |
| <b>Middle channel</b>  |                                  |                               |                  |                               |                  |                  |              |
| Frequency (MHz)  | Level at antenna terminals (dBm) | Substitute antenna gain (dBi) | Cable Loss (dBi) | Spurious Emission level (dBm) | Limit Line (dBm) | Over Limit (dBm) | Polarization |
| 1673.30  | -58.57                           | 9.66                          | 0.22             | -49.13                        | -13.00           | -36.13           | Vertical     |
| 2509.50  | -58.84                           | 10.91                         | 0.46             | -48.39                        | -13.00           | -35.39           | Vertical     |
| 3346.00  | -57.79                           | 12.09                         | 0.66             | -46.36                        | -13.00           | -33.36           | Vertical     |
| 1673.30  | -55.59                           | 9.66                          | 0.22             | -46.15                        | -13.00           | -33.15           | Horizontal   |
| 2509.50  | -60.20                           | 10.91                         | 0.46             | -49.75                        | -13.00           | -36.75           | Horizontal   |
| 3346.00  | -58.03                           | 12.09                         | 0.66             | -46.60                        | -13.00           | -33.60           | Horizontal   |
| <b>Highest channel</b>   |                                  |                               |                  |                               |                  |                  |              |
| Frequency (MHz)  | Level at antenna terminals (dBm) | Substitute antenna gain (dBi) | Cable Loss (dBi) | Spurious Emission level (dBm) | Limit Line (dBm) | Over Limit (dBm) | Polarization |
| 1696.60  | -59.37                           | 9.74                          | 0.23             | -49.86                        | -13.00           | -36.86           | Vertical     |
| 2544.90  | -58.84                           | 10.94                         | 0.49             | -48.39                        | -13.00           | -35.39           | Vertical     |
| 3393.20  | -58.33                           | 12.19                         | 0.68             | -46.82                        | -13.00           | -33.82           | Vertical     |
| 1696.60  | -56.11                           | 9.74                          | 0.23             | -46.60                        | -13.00           | -33.60           | Horizontal   |
| 2544.90  | -59.84                           | 10.94                         | 0.49             | -49.39                        | -13.00           | -36.39           | Horizontal   |
| 3393.20  | -58.07                           | 12.19                         | 0.68             | -46.56                        | -13.00           | -33.56           | Horizontal   |
| <i>Remark:</i>   |                                  |                               |                  |                               |                  |                  |              |
| <i>The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.</i> |                                  |                               |                  |                               |                  |                  |              |

| <b>Band 5 (10MHz)</b>  |                                  |                               |                  |                               |                  |                  |              |
|--|----------------------------------|-------------------------------|------------------|-------------------------------|------------------|------------------|--------------|
| <b>Lowest channel</b>  |                                  |                               |                  |                               |                  |                  |              |
| Frequency (MHz)  | Level at antenna terminals (dBm) | Substitute antenna gain (dBi) | Cable Loss (dBi) | Spurious Emission level (dBm) | Limit Line (dBm) | Over Limit (dBm) | Polarization |
| 1658.00  | -59.07                           | 9.60                          | 0.21             | -49.68                        | -13.00           | -36.68           | Vertical     |
| 2487.00  | -58.82                           | 10.88                         | 0.45             | -48.39                        | -13.00           | -35.39           | Vertical     |
| 3316.00  | -57.81                           | 12.03                         | 0.65             | -46.43                        | -13.00           | -33.43           | Vertical     |
| 1658.00  | -55.83                           | 9.60                          | 0.21             | -46.44                        | -13.00           | -33.44           | Horizontal   |
| 2487.00  | -60.21                           | 10.88                         | 0.45             | -49.78                        | -13.00           | -36.78           | Horizontal   |
| 3316.00  | -58.07                           | 12.03                         | 0.65             | -46.69                        | -13.00           | -33.69           | Horizontal   |
| <b>Middle channel</b>  |                                  |                               |                  |                               |                  |                  |              |
| Frequency (MHz)  | Level at antenna terminals (dBm) | Substitute antenna gain (dBi) | Cable Loss (dBi) | Spurious Emission level (dBm) | Limit Line (dBm) | Over Limit (dBm) | Polarization |
| 1673.30  | -59.59                           | 9.66                          | 0.21             | -50.14                        | -13.00           | -37.14           | Vertical     |
| 2509.50  | -58.49                           | 10.91                         | 0.46             | -48.04                        | -13.00           | -35.04           | Vertical     |
| 3346.00  | -57.71                           | 12.09                         | 0.66             | -46.28                        | -13.00           | -33.28           | Vertical     |
| 1673.30  | -55.86                           | 9.66                          | 0.21             | -46.41                        | -13.00           | -33.41           | Horizontal   |
| 2509.50  | -60.28                           | 10.91                         | 0.46             | -49.83                        | -13.00           | -36.83           | Horizontal   |
| 3346.00  | -57.82                           | 12.09                         | 0.66             | -46.39                        | -13.00           | -33.39           | Horizontal   |
| <b>Highest channel</b>   |                                  |                               |                  |                               |                  |                  |              |
| Frequency (MHz)  | Level at antenna terminals (dBm) | Substitute antenna gain (dBi) | Cable Loss (dBi) | Spurious Emission level (dBm) | Limit Line (dBm) | Over Limit (dBm) | Polarization |
| 1688.00  | -59.70                           | 9.71                          | 0.23             | -50.22                        | -13.00           | -37.22           | Vertical     |
| 2532.00  | -58.97                           | 10.93                         | 0.48             | -48.52                        | -13.00           | -35.52           | Vertical     |
| 3376.00  | -57.65                           | 12.15                         | 0.67             | -46.17                        | -13.00           | -33.17           | Vertical     |
| 1688.00  | -56.05                           | 9.71                          | 0.23             | -46.57                        | -13.00           | -33.57           | Horizontal   |
| 2532.00  | -60.44                           | 10.93                         | 0.48             | -49.99                        | -13.00           | -36.99           | Horizontal   |
| 3376.00  | -58.33                           | 12.15                         | 0.67             | -46.85                        | -13.00           | -33.85           | Horizontal   |
| <i>Remark:</i>   |                                  |                               |                  |                               |                  |                  |              |
| <i>The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.</i> |                                  |                               |                  |                               |                  |                  |              |

**LTE Band 7 part:**

| Band 7 (5MHz)  |                                  |                               |                  |                               |                  |                  |              |
|--|----------------------------------|-------------------------------|------------------|-------------------------------|------------------|------------------|--------------|
| Lowest channel   |                                  |                               |                  |                               |                  |                  |              |
| Frequency (MHz)  | Level at antenna terminals (dBm) | Substitute antenna gain (dBi) | Cable Loss (dBi) | Spurious Emission level (dBm) | Limit Line (dBm) | Over Limit (dBm) | Polarization |
| 5005.00  | -54.78                           | 13.00                         | 0.94             | -42.72                        | -25.00           | -17.72           | Vertical     |
| 7507.50  | -46.38                           | 11.49                         | 1.65             | -36.54                        | -25.00           | -11.54           | Vertical     |
| 10010.00   | -48.52                           | 11.69                         | 1.91             | -38.74                        | -25.00           | -13.74           | Vertical     |
| 5005.00  | -54.22                           | 13.00                         | 0.94             | -42.16                        | -25.00           | -17.16           | Horizontal   |
| 7507.50  | -45.98                           | 11.49                         | 1.65             | -36.14                        | -25.00           | -11.14           | Horizontal   |
| 10010.00   | -48.57                           | 11.69                         | 1.91             | -38.79                        | -25.00           | -13.79           | Horizontal   |
| Middle channel   |                                  |                               |                  |                               |                  |                  |              |
| Frequency (MHz)  | Level at antenna terminals (dBm) | Substitute antenna gain (dBi) | Cable Loss (dBi) | Spurious Emission level (dBm) | Limit Line (dBm) | Over Limit (dBm) | Polarization |
| 5070.00  | -54.37                           | 12.96                         | 0.98             | -42.39                        | -25.00           | -17.39           | Vertical     |
| 7605.00  | -46.29                           | 11.37                         | 1.69             | -36.61                        | -25.00           | -11.61           | Vertical     |
| 10140.00   | -48.20                           | 11.62                         | 1.94             | -38.52                        | -25.00           | -13.52           | Vertical     |
| 5070.00  | -53.74                           | 12.96                         | 0.98             | -41.76                        | -25.00           | -16.76           | Horizontal   |
| 7605.00  | -46.19                           | 11.37                         | 1.69             | -36.51                        | -25.00           | -11.51           | Horizontal   |
| 10140.00   | -48.14                           | 11.62                         | 1.94             | -38.46                        | -25.00           | -13.46           | Horizontal   |
| Highest channel  |                                  |                               |                  |                               |                  |                  |              |
| Frequency (MHz)  | Level at antenna terminals (dBm) | Substitute antenna gain (dBi) | Cable Loss (dBi) | Spurious Emission level (dBm) | Limit Line (dBm) | Over Limit (dBm) | Polarization |
| 5135.00  | -54.49                           | 12.92                         | 1.01             | -42.58                        | -25.00           | -17.58           | Vertical     |
| 7702.50  | -46.06                           | 11.26                         | 1.72             | -36.52                        | -25.00           | -11.52           | Vertical     |
| 10270.00   | -48.16                           | 11.54                         | 1.95             | -38.57                        | -25.00           | -13.57           | Vertical     |
| 5135.00  | -54.23                           | 12.92                         | 1.01             | -42.32                        | -25.00           | -17.32           | Horizontal   |
| 7702.50  | -45.40                           | 11.26                         | 1.72             | -35.86                        | -25.00           | -10.86           | Horizontal   |
| 10270.00   | -48.61                           | 11.54                         | 1.95             | -39.02                        | -25.00           | -14.02           | Horizontal   |
| <i>Remark:</i>   |                                  |                               |                  |                               |                  |                  |              |
| <i>The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.</i> |                                  |                               |                  |                               |                  |                  |              |

| <b>Band 7 (20MHz)</b>  |                                  |                               |                  |                               |                  |                  |              |
|--|----------------------------------|-------------------------------|------------------|-------------------------------|------------------|------------------|--------------|
| <b>Lowest channel</b>  |                                  |                               |                  |                               |                  |                  |              |
| Frequency (MHz)  | Level at antenna terminals (dBm) | Substitute antenna gain (dBi) | Cable Loss (dBi) | Spurious Emission level (dBm) | Limit Line (dBm) | Over Limit (dBm) | Polarization |
| 5020.00  | -55.06                           | 12.99                         | 0.97             | -43.04                        | -25.00           | -18.04           | Vertical     |
| 7530.00  | -45.84                           | 11.46                         | 1.68             | -36.06                        | -25.00           | -11.06           | Vertical     |
| 10040.00   | -47.94                           | 11.68                         | 1.94             | -38.20                        | -25.00           | -13.20           | Vertical     |
| 5020.00  | -53.99                           | 12.99                         | 0.97             | -41.97                        | -25.00           | -16.97           | Horizontal   |
| 7530.00  | -45.91                           | 11.46                         | 1.68             | -36.13                        | -25.00           | -11.13           | Horizontal   |
| 10040.00   | -48.28                           | 11.68                         | 1.94             | -38.54                        | -25.00           | -13.54           | Horizontal   |
| <b>Middle channel</b>  |                                  |                               |                  |                               |                  |                  |              |
| Frequency (MHz)  | Level at antenna terminals (dBm) | Substitute antenna gain (dBi) | Cable Loss (dBi) | Spurious Emission level (dBm) | Limit Line (dBm) | Over Limit (dBm) | Polarization |
| 5070.00  | -54.74                           | 12.96                         | 0.98             | -42.76                        | -25.00           | -17.76           | Vertical     |
| 7605.00  | -45.45                           | 11.37                         | 1.69             | -35.77                        | -25.00           | -10.77           | Vertical     |
| 10140.00   | -47.67                           | 11.62                         | 1.94             | -37.99                        | -25.00           | -12.99           | Vertical     |
| 5070.00  | -53.49                           | 12.96                         | 0.98             | -41.51                        | -25.00           | -16.51           | Horizontal   |
| 7605.00  | -45.46                           | 11.37                         | 1.69             | -35.78                        | -25.00           | -10.78           | Horizontal   |
| 10140.00   | -48.55                           | 11.62                         | 1.94             | -38.87                        | -25.00           | -13.87           | Horizontal   |
| <b>Highest channel</b>   |                                  |                               |                  |                               |                  |                  |              |
| Frequency (MHz)  | Level at antenna terminals (dBm) | Substitute antenna gain (dBi) | Cable Loss (dBi) | Spurious Emission level (dBm) | Limit Line (dBm) | Over Limit (dBm) | Polarization |
| 5120.00  | -54.43                           | 12.93                         | 1.00             | -42.50                        | -25.00           | -17.50           | Vertical     |
| 7680.00  | -45.65                           | 11.28                         | 1.72             | -36.09                        | -25.00           | -11.09           | Vertical     |
| 10240.00   | -47.79                           | 11.56                         | 1.95             | -38.18                        | -25.00           | -13.18           | Vertical     |
| 5120.00  | -53.52                           | 12.93                         | 1.00             | -41.59                        | -25.00           | -16.59           | Horizontal   |
| 7680.00  | -45.21                           | 11.28                         | 1.72             | -35.65                        | -25.00           | -10.65           | Horizontal   |
| 10240.00   | -48.82                           | 11.56                         | 1.95             | -39.21                        | -25.00           | -14.21           | Horizontal   |
| <i>Remark:</i>   |                                  |                               |                  |                               |                  |                  |              |
| <i>The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.</i> |                                  |                               |                  |                               |                  |                  |              |

**LTE Band 17 part:**

| <b>Band 17 (5MHz)</b>  |                                  |                               |                  |                               |                  |                  |              |
|--|----------------------------------|-------------------------------|------------------|-------------------------------|------------------|------------------|--------------|
| <b>Lowest channel</b>  |                                  |                               |                  |                               |                  |                  |              |
| Frequency (MHz)  | Level at antenna terminals (dBm) | Substitute antenna gain (dBi) | Cable Loss (dBi) | Spurious Emission level (dBm) | Limit Line (dBm) | Over Limit (dBm) | Polarization |
| 1413.00  | -61.92                           | 7.90                          | 0.12             | -54.14                        | -13.00           | -41.14           | Vertical     |
| 2119.50  | -49.02                           | 10.37                         | 0.31             | -38.96                        | -13.00           | -25.96           | Vertical     |
| 2826.00  | -60.16                           | 11.23                         | 0.54             | -49.47                        | -13.00           | -36.47           | Vertical     |
| 1413.00  | -61.96                           | 7.90                          | 0.12             | -54.18                        | -13.00           | -41.18           | Horizontal   |
| 2119.50  | -51.60                           | 10.37                         | 0.31             | -41.54                        | -13.00           | -28.54           | Horizontal   |
| 2826.00  | -59.27                           | 11.23                         | 0.54             | -48.58                        | -13.00           | -35.58           | Horizontal   |
| <b>Middle channel</b>  |                                  |                               |                  |                               |                  |                  |              |
| Frequency (MHz)  | Level at antenna terminals (dBm) | Substitute antenna gain (dBi) | Cable Loss (dBi) | Spurious Emission level (dBm) | Limit Line (dBm) | Over Limit (dBm) | Polarization |
| 1420.00  | -61.56                           | 7.96                          | 0.14             | -53.74                        | -13.00           | -40.74           | Vertical     |
| 2130.00  | -49.46                           | 10.38                         | 0.33             | -39.41                        | -13.00           | -26.41           | Vertical     |
| 2840.00  | -59.89                           | 11.24                         | 0.56             | -49.21                        | -13.00           | -36.21           | Vertical     |
| 1420.00  | -62.07                           | 7.96                          | 0.14             | -54.25                        | -13.00           | -41.25           | Horizontal   |
| 2130.00  | -51.89                           | 10.38                         | 0.33             | -41.84                        | -13.00           | -28.84           | Horizontal   |
| 2840.00  | -59.32                           | 11.24                         | 0.56             | -48.64                        | -13.00           | -35.64           | Horizontal   |
| <b>Highest channel</b>   |                                  |                               |                  |                               |                  |                  |              |
| Frequency (MHz)  | Level at antenna terminals (dBm) | Substitute antenna gain (dBi) | Cable Loss (dBi) | Spurious Emission level (dBm) | Limit Line (dBm) | Over Limit (dBm) | Polarization |
| 1427.00  | -61.64                           | 8.02                          | 0.16             | -53.78                        | -13.00           | -40.78           | Vertical     |
| 2140.50  | -48.98                           | 10.40                         | 0.34             | -38.92                        | -13.00           | -25.92           | Vertical     |
| 2854.00  | -59.73                           | 11.25                         | 0.57             | -49.05                        | -13.00           | -36.05           | Vertical     |
| 1427.00  | -61.96                           | 8.02                          | 0.16             | -54.10                        | -13.00           | -41.10           | Horizontal   |
| 2140.50  | -52.08                           | 10.40                         | 0.34             | -42.02                        | -13.00           | -29.02           | Horizontal   |
| 2854.00  | -59.16                           | 11.25                         | 0.57             | -48.48                        | -13.00           | -35.48           | Horizontal   |
| <i>Remark:</i>   |                                  |                               |                  |                               |                  |                  |              |
| <i>The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.</i> |                                  |                               |                  |                               |                  |                  |              |



| Band 17 (10MHz)  |                                  |                               |                  |                               |                  |                  |              |
|--|----------------------------------|-------------------------------|------------------|-------------------------------|------------------|------------------|--------------|
| Lowest channel   |                                  |                               |                  |                               |                  |                  |              |
| Frequency (MHz)  | Level at antenna terminals (dBm) | Substitute antenna gain (dBi) | Cable Loss (dBi) | Spurious Emission level (dBm) | Limit Line (dBm) | Over Limit (dBm) | Polarization |
| 1418.00  | -61.74                           | 7.94                          | 0.13             | -53.93                        | -13.00           | -40.93           | Vertical     |
| 2127.00  | -49.02                           | 10.38                         | 0.32             | -38.96                        | -13.00           | -25.96           | Vertical     |
| 2836.00  | -60.04                           | 11.24                         | 0.56             | -49.36                        | -13.00           | -36.36           | Vertical     |
| 1418.00  | -61.99                           | 7.94                          | 0.13             | -54.18                        | -13.00           | -41.18           | Horizontal   |
| 2127.00  | -52.10                           | 10.38                         | 0.32             | -42.04                        | -13.00           | -29.04           | Horizontal   |
| 2836.00  | -59.11                           | 11.24                         | 0.56             | -48.43                        | -13.00           | -35.43           | Horizontal   |
| Middle channel   |                                  |                               |                  |                               |                  |                  |              |
| Frequency (MHz)  | Level at antenna terminals (dBm) | Substitute antenna gain (dBi) | Cable Loss (dBi) | Spurious Emission level (dBm) | Limit Line (dBm) | Over Limit (dBm) | Polarization |
| 1420.00  | -61.97                           | 7.96                          | 0.14             | -54.15                        | -13.00           | -41.15           | Vertical     |
| 2130.00  | -48.66                           | 10.38                         | 0.33             | -38.61                        | -13.00           | -25.61           | Vertical     |
| 2840.00  | -60.26                           | 11.24                         | 0.56             | -49.58                        | -13.00           | -36.58           | Vertical     |
| 1420.00  | -62.03                           | 7.96                          | 0.14             | -54.21                        | -13.00           | -41.21           | Horizontal   |
| 2130.00  | -52.23                           | 10.38                         | 0.33             | -42.18                        | -13.00           | -29.18           | Horizontal   |
| 2840.00  | -58.85                           | 11.24                         | 0.56             | -48.17                        | -13.00           | -35.17           | Horizontal   |
| Highest channel  |                                  |                               |                  |                               |                  |                  |              |
| Frequency (MHz)  | Level at antenna terminals (dBm) | Substitute antenna gain (dBi) | Cable Loss (dBi) | Spurious Emission level (dBm) | Limit Line (dBm) | Over Limit (dBm) | Polarization |
| 1422.00  | -62.02                           | 7.98                          | 0.15             | -54.19                        | -13.00           | -41.19           | Vertical     |
| 2133.00  | -48.33                           | 10.39                         | 0.34             | -38.28                        | -13.00           | -25.28           | Vertical     |
| 2844.00  | -60.55                           | 11.24                         | 0.57             | -49.88                        | -13.00           | -36.88           | Vertical     |
| 1422.00  | -62.44                           | 7.98                          | 0.15             | -54.61                        | -13.00           | -41.61           | Horizontal   |
| 2133.00  | -52.47                           | 10.39                         | 0.34             | -42.42                        | -13.00           | -29.42           | Horizontal   |
| 2844.00  | -59.27                           | 11.24                         | 0.57             | -48.60                        | -13.00           | -35.60           | Horizontal   |
| Remark:<br>The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report. |                                  |                               |                  |                               |                  |                  |              |

**LTE Band 38 part:**

| <b>Band 38 (5MHz)</b>  |                                  |                               |                  |                               |                  |                  |              |
|--|----------------------------------|-------------------------------|------------------|-------------------------------|------------------|------------------|--------------|
| <b>Lowest channel</b>  |                                  |                               |                  |                               |                  |                  |              |
| Frequency (MHz)  | Level at antenna terminals (dBm) | Substitute antenna gain (dBi) | Cable Loss (dBi) | Spurious Emission level (dBm) | Limit Line (dBm) | Over Limit (dBm) | Polarization |
| 5145.00  | -55.04                           | 13.01                         | 0.94             | -42.97                        | -25.00           | -17.97           | Vertical     |
| 7717.50  | -45.93                           | 11.51                         | 1.65             | -36.07                        | -25.00           | -11.07           | Vertical     |
| 10290.00   | -47.97                           | 11.71                         | 1.91             | -38.17                        | -25.00           | -13.17           | Vertical     |
| 5145.00  | -54.41                           | 13.02                         | 0.94             | -42.33                        | -25.00           | -17.33           | Horizontal   |
| 7717.50  | -46.30                           | 11.52                         | 1.65             | -36.43                        | -25.00           | -11.43           | Horizontal   |
| 10290.00   | -48.02                           | 11.71                         | 1.91             | -38.22                        | -25.00           | -13.22           | Horizontal   |
| <b>Middle channel</b>  |                                  |                               |                  |                               |                  |                  |              |
| Frequency (MHz)  | Level at antenna terminals (dBm) | Substitute antenna gain (dBi) | Cable Loss (dBi) | Spurious Emission level (dBm) | Limit Line (dBm) | Over Limit (dBm) | Polarization |
| 5190.00  | -54.48                           | 12.90                         | 1.05             | -42.63                        | -25.00           | -17.63           | Vertical     |
| 7785.00  | -45.77                           | 11.18                         | 1.74             | -36.33                        | -25.00           | -11.33           | Vertical     |
| 10380.00   | -47.66                           | 11.49                         | 1.98             | -38.15                        | -25.00           | -13.15           | Vertical     |
| 5190.00  | -54.50                           | 12.90                         | 1.05             | -42.65                        | -25.00           | -17.65           | Horizontal   |
| 7785.00  | -46.21                           | 11.18                         | 1.74             | -36.77                        | -25.00           | -11.77           | Horizontal   |
| 10380.00   | -47.87                           | 11.49                         | 1.98             | -38.36                        | -25.00           | -13.36           | Horizontal   |
| <b>Highest channel</b>   |                                  |                               |                  |                               |                  |                  |              |
| Frequency (MHz)  | Level at antenna terminals (dBm) | Substitute antenna gain (dBi) | Cable Loss (dBi) | Spurious Emission level (dBm) | Limit Line (dBm) | Over Limit (dBm) | Polarization |
| 5235.00  | -54.50                           | 12.77                         | 1.09             | -42.82                        | -25.00           | -17.82           | Vertical     |
| 7852.50  | -45.45                           | 10.91                         | 1.79             | -36.33                        | -25.00           | -11.33           | Vertical     |
| 10470.00   | -46.96                           | 11.24                         | 1.98             | -37.70                        | -25.00           | -12.70           | Vertical     |
| 5235.00  | -52.92                           | 11.77                         | 1.09             | -42.24                        | -25.00           | -17.24           | Horizontal   |
| 7852.50  | -45.95                           | 10.91                         | 1.80             | -36.84                        | -25.00           | -11.84           | Horizontal   |
| 10470.00   | -47.87                           | 11.24                         | 1.98             | -38.61                        | -25.00           | -13.61           | Horizontal   |
| <i>Remark:</i>   |                                  |                               |                  |                               |                  |                  |              |
| <i>The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.</i> |                                  |                               |                  |                               |                  |                  |              |

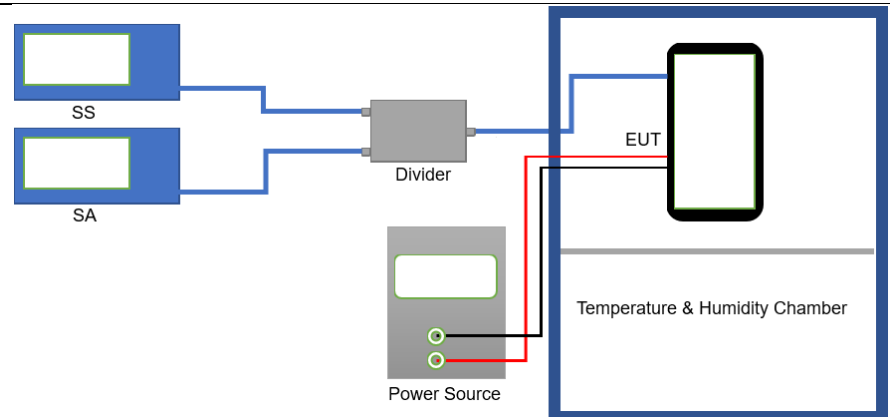
| <b>Band 38 (20MHz)</b>   |                                  |                               |                  |                               |                  |                  |              |
|--|----------------------------------|-------------------------------|------------------|-------------------------------|------------------|------------------|--------------|
| <b>Lowest channel</b>  |                                  |                               |                  |                               |                  |                  |              |
| Frequency (MHz)  | Level at antenna terminals (dBm) | Substitute antenna gain (dBi) | Cable Loss (dBi) | Spurious Emission level (dBm) | Limit Line (dBm) | Over Limit (dBm) | Polarization |
| 5160.00  | -55.22                           | 13.00                         | 0.96             | -43.18                        | -25.00           | -18.18           | Vertical     |
| 7740.00  | -45.90                           | 11.49                         | 1.67             | -36.08                        | -25.00           | -11.08           | Vertical     |
| 10320.00   | -47.49                           | 11.70                         | 1.93             | -37.72                        | -25.00           | -12.72           | Vertical     |
| 5160.00  | -54.40                           | 13.00                         | 0.96             | -42.36                        | -25.00           | -17.36           | Horizontal   |
| 7740.00  | -47.03                           | 11.49                         | 1.67             | -37.21                        | -25.00           | -12.21           | Horizontal   |
| 10320.00   | -47.98                           | 11.70                         | 1.93             | -38.21                        | -25.00           | -13.21           | Horizontal   |
| <b>Middle channel</b>  |                                  |                               |                  |                               |                  |                  |              |
| Frequency (MHz)  | Level at antenna terminals (dBm) | Substitute antenna gain (dBi) | Cable Loss (dBi) | Spurious Emission level (dBm) | Limit Line (dBm) | Over Limit (dBm) | Polarization |
| 5190.00  | -54.64                           | 12.90                         | 1.05             | -42.79                        | -25.00           | -17.79           | Vertical     |
| 7785.00  | -46.00                           | 11.18                         | 1.74             | -36.56                        | -25.00           | -11.56           | Vertical     |
| 10380.00   | -47.33                           | 11.49                         | 1.98             | -37.82                        | -25.00           | -12.82           | Vertical     |
| 5190.00  | -54.38                           | 12.90                         | 1.05             | -42.53                        | -25.00           | -17.53           | Horizontal   |
| 7785.00  | -47.12                           | 11.18                         | 1.74             | -37.68                        | -25.00           | -12.68           | Horizontal   |
| 10380.00   | -48.05                           | 11.49                         | 1.98             | -38.54                        | -25.00           | -13.54           | Horizontal   |
| <b>Highest channel</b>   |                                  |                               |                  |                               |                  |                  |              |
| Frequency (MHz)  | Level at antenna terminals (dBm) | Substitute antenna gain (dBi) | Cable Loss (dBi) | Spurious Emission level (dBm) | Limit Line (dBm) | Over Limit (dBm) | Polarization |
| 5220.00  | -54.17                           | 12.77                         | 1.09             | -42.49                        | -25.00           | -17.49           | Vertical     |
| 7830.00  | -46.00                           | 10.90                         | 1.78             | -36.88                        | -25.00           | -11.88           | Vertical     |
| 10440.00   | -47.22                           | 11.26                         | 1.98             | -37.94                        | -25.00           | -12.94           | Vertical     |
| 5220.00  | -53.12                           | 11.77                         | 1.09             | -42.44                        | -25.00           | -17.44           | Horizontal   |
| 7830.00  | -47.12                           | 10.90                         | 1.78             | -38.00                        | -25.00           | -13.00           | Horizontal   |
| 10440.00   | -47.87                           | 11.26                         | 1.98             | -38.59                        | -25.00           | -13.59           | Horizontal   |
| <i>Remark:</i>   |                                  |                               |                  |                               |                  |                  |              |
| <i>The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.</i> |                                  |                               |                  |                               |                  |                  |              |

**LTE Band 41 part:**

| Band 41 (5MHz)   |                                  |                               |                  |                               |                  |                  |              |
|--|----------------------------------|-------------------------------|------------------|-------------------------------|------------------|------------------|--------------|
| Lowest channel   |                                  |                               |                  |                               |                  |                  |              |
| Frequency (MHz)  | Level at antenna terminals (dBm) | Substitute antenna gain (dBi) | Cable Loss (dBi) | Spurious Emission level (dBm) | Limit Line (dBm) | Over Limit (dBm) | Polarization |
| 5075.00  | -54.54                           | 13.00                         | 0.94             | -42.48                        | -25.00           | -17.48           | Vertical     |
| 7612.50  | -46.38                           | 11.50                         | 1.65             | -36.53                        | -25.00           | -11.53           | Vertical     |
| 10150.00   | -48.58                           | 11.70                         | 1.91             | -38.79                        | -25.00           | -13.79           | Vertical     |
| 5075.00  | -54.95                           | 13.00                         | 0.94             | -42.89                        | -25.00           | -17.89           | Horizontal   |
| 7612.50  | -45.87                           | 11.50                         | 1.65             | -36.02                        | -25.00           | -11.02           | Horizontal   |
| 10150.00   | -48.54                           | 11.70                         | 1.91             | -38.75                        | -25.00           | -13.75           | Horizontal   |
| Middle channel   |                                  |                               |                  |                               |                  |                  |              |
| Frequency (MHz)  | Level at antenna terminals (dBm) | Substitute antenna gain (dBi) | Cable Loss (dBi) | Spurious Emission level (dBm) | Limit Line (dBm) | Over Limit (dBm) | Polarization |
| 5190.00  | -54.18                           | 12.89                         | 1.04             | -42.33                        | -25.00           | -17.33           | Vertical     |
| 7785.00  | -45.69                           | 11.17                         | 1.73             | -36.25                        | -25.00           | -11.25           | Vertical     |
| 10380.00   | -48.00                           | 11.48                         | 1.97             | -38.49                        | -25.00           | -13.49           | Vertical     |
| 5190.00  | -54.52                           | 12.89                         | 1.04             | -42.67                        | -25.00           | -17.67           | Horizontal   |
| 7785.00  | -45.72                           | 11.17                         | 1.73             | -36.28                        | -25.00           | -11.28           | Horizontal   |
| 10380.00   | -48.05                           | 11.48                         | 1.97             | -38.54                        | -25.00           | -13.54           | Horizontal   |
| Highest channel  |                                  |                               |                  |                               |                  |                  |              |
| Frequency (MHz)  | Level at antenna terminals (dBm) | Substitute antenna gain (dBi) | Cable Loss (dBi) | Spurious Emission level (dBm) | Limit Line (dBm) | Over Limit (dBm) | Polarization |
| 5125.00  | -53.84                           | 12.78                         | 1.11             | -42.17                        | -25.00           | -17.17           | Vertical     |
| 7687.50  | -45.17                           | 10.92                         | 1.82             | -36.07                        | -25.00           | -11.07           | Vertical     |
| 10250.00   | -48.22                           | 11.25                         | 2.00             | -38.97                        | -25.00           | -13.97           | Vertical     |
| 5125.00  | -54.79                           | 12.78                         | 1.11             | -43.12                        | -25.00           | -18.12           | Horizontal   |
| 7687.50  | -44.65                           | 10.92                         | 1.82             | -35.55                        | -25.00           | -10.55           | Horizontal   |
| 10250.00   | -47.86                           | 11.25                         | 2.00             | -38.61                        | -25.00           | -13.61           | Horizontal   |
| Remark:<br>The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report. |                                  |                               |                  |                               |                  |                  |              |

| <b>Band 41 (20MHz)</b>   |                                  |                               |                  |                               |                  |                  |              |
|--|----------------------------------|-------------------------------|------------------|-------------------------------|------------------|------------------|--------------|
| <b>Lowest channel</b>  |                                  |                               |                  |                               |                  |                  |              |
| Frequency (MHz)  | Level at antenna terminals (dBm) | Substitute antenna gain (dBi) | Cable Loss (dBi) | Spurious Emission level (dBm) | Limit Line (dBm) | Over Limit (dBm) | Polarization |
| 5090.00  | -54.62                           | 12.99                         | 0.95             | -42.58                        | -25.00           | -17.58           | Vertical     |
| 7635.00  | -45.92                           | 11.48                         | 1.66             | -36.10                        | -25.00           | -11.10           | Vertical     |
| 10180.00   | -49.02                           | 11.69                         | 1.92             | -39.25                        | -25.00           | -14.25           | Vertical     |
| 5090.00  | -55.22                           | 12.99                         | 0.95             | -43.18                        | -25.00           | -18.18           | Horizontal   |
| 7635.00  | -45.85                           | 11.48                         | 1.66             | -36.03                        | -25.00           | -11.03           | Horizontal   |
| 10180.00   | -48.57                           | 11.69                         | 1.92             | -38.80                        | -25.00           | -13.80           | Horizontal   |
| <b>Middle channel</b>  |                                  |                               |                  |                               |                  |                  |              |
| Frequency (MHz)  | Level at antenna terminals (dBm) | Substitute antenna gain (dBi) | Cable Loss (dBi) | Spurious Emission level (dBm) | Limit Line (dBm) | Over Limit (dBm) | Polarization |
| 5190.00  | -54.52                           | 12.89                         | 1.04             | -42.67                        | -25.00           | -17.67           | Vertical     |
| 7785.00  | -45.33                           | 11.17                         | 1.73             | -35.89                        | -25.00           | -10.89           | Vertical     |
| 10380.00   | -49.10                           | 11.48                         | 1.97             | -39.59                        | -25.00           | -14.59           | Vertical     |
| 5190.00  | -54.66                           | 12.89                         | 1.04             | -42.81                        | -25.00           | -17.81           | Horizontal   |
| 7785.00  | -45.20                           | 11.17                         | 1.73             | -35.76                        | -25.00           | -10.76           | Horizontal   |
| 10380.00   | -48.47                           | 11.48                         | 1.97             | -38.96                        | -25.00           | -13.96           | Horizontal   |
| <b>Highest channel</b>   |                                  |                               |                  |                               |                  |                  |              |
| Frequency (MHz)  | Level at antenna terminals (dBm) | Substitute antenna gain (dBi) | Cable Loss (dBi) | Spurious Emission level (dBm) | Limit Line (dBm) | Over Limit (dBm) | Polarization |
| 5290.00  | -54.04                           | 12.78                         | 1.10             | -42.36                        | -25.00           | -17.36           | Vertical     |
| 7935.00  | -45.24                           | 10.91                         | 1.79             | -36.12                        | -25.00           | -11.12           | Vertical     |
| 10580.00   | -48.46                           | 11.27                         | 1.99             | -39.18                        | -25.00           | -14.18           | Vertical     |
| 5290.00  | -54.71                           | 12.78                         | 1.10             | -43.03                        | -25.00           | -18.03           | Horizontal   |
| 7935.00  | -44.67                           | 10.91                         | 1.79             | -35.55                        | -25.00           | -10.55           | Horizontal   |
| 10580.00   | -47.99                           | 11.27                         | 1.99             | -38.71                        | -25.00           | -13.71           | Horizontal   |
| <i>Remark:</i>   |                                  |                               |                  |                               |                  |                  |              |
| <i>The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.</i> |                                  |                               |                  |                               |                  |                  |              |

### 6.6 Frequency stability V.S. Temperature measurement

|                   |   |
|-------------------|---|
| Test Requirement: | Part 22.355, Part 24.235, Part 27.54, Part 2.1055(a)(1)(b)  |
| Limit:            | ±2.5 ppm for Band 5<br>Within authorized band for Band 2 & 4 & 7 & 17 & 38 & 41   |
| Test setup:       |   |
| 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 5.10 for details   |
| Test mode:        | Refer to section 5.3 for details  |
| Test results:     | Passed  |

**Measurement Data (worst case):**

**LTE Band 2 part:**

| Reference Frequency: LTE Band 2 (10MHz) Middle channel=18900 channel=1880.00MHz |                  |                 |          |                                   |        |
|---|------------------|-----------------|----------|-----------------------------------|--------|
| Power supplied (Vdc)  | Temperature (°C) | Frequency error |          | Limit (ppm)                       | Result |
|   |                  | Hz              | ppm      |                                   |        |
| <b>QPSK</b>   |                  |                 |          |                                   |        |
| 3.87  | -30              | 176             | 0.093617 | Within authorized band for Band 2 | Pass   |
|   | -20              | 168             | 0.089362 |                                   |        |
|   | -10              | 146             | 0.077660 |                                   |        |
|   | 0                | 138             | 0.073404 |                                   |        |
|   | 10               | 153             | 0.081383 |                                   |        |
|   | 20               | 132             | 0.070213 |                                   |        |
|   | 30               | 160             | 0.085106 |                                   |        |
|   | 40               | 124             | 0.065957 |                                   |        |
|   | 50               | 112             | 0.059574 |                                   |        |
| <b>16QAM</b>  |                  |                 |          |                                   |        |
| 3.87  | -30              | 173             | 0.092021 | Within authorized band for Band 2 | Pass   |
|   | -20              | 160             | 0.085106 |                                   |        |
|   | -10              | 135             | 0.071809 |                                   |        |
|   | 0                | 127             | 0.067553 |                                   |        |
|   | 10               | 113             | 0.060106 |                                   |        |
|   | 20               | 120             | 0.063830 |                                   |        |
|   | 30               | 167             | 0.088830 |                                   |        |
|   | 40               | 151             | 0.080319 |                                   |        |
|   | 50               | 143             | 0.076064 |                                   |        |

*Note: Only the worst case shown in the report.*

**LTE Band 4 part:**

| Reference Frequency: LTE Band 4 (10MHz) Middle channel=20175 channel=1732.50MHz |                  |                 |          |                                   |        |
|---|------------------|-----------------|----------|-----------------------------------|--------|
| Power supplied (Vdc)  | Temperature (°C) | Frequency error |          | Limit (ppm)                       | Result |
|   |                  | Hz              | ppm      |                                   |        |
| <b>QPSK</b>   |                  |                 |          |                                   |        |
| 3.87  | -30              | 170             | 0.098124 | Within authorized band for Band 4 | Pass   |
|   | -20              | 165             | 0.095238 |                                   |        |
|   | -10              | 157             | 0.090620 |                                   |        |
|   | 0                | 134             | 0.077345 |                                   |        |
|   | 10               | 152             | 0.087734 |                                   |        |
|   | 20               | 146             | 0.084271 |                                   |        |
|   | 30               | 126             | 0.072727 |                                   |        |
|   | 40               | 115             | 0.066378 |                                   |        |
|   | 50               | 139             | 0.080231 |                                   |        |
| <b>16QAM</b>  |                  |                 |          |                                   |        |
| 3.87  | -30              | 169             | 0.097547 | Within authorized band for Band 4 | Pass   |
|   | -20              | 154             | 0.088889 |                                   |        |
|   | -10              | 137             | 0.079076 |                                   |        |
|   | 0                | 110             | 0.063492 |                                   |        |
|   | 10               | 133             | 0.076768 |                                   |        |
|   | 20               | 127             | 0.073304 |                                   |        |
|   | 30               | 117             | 0.067532 |                                   |        |
|   | 40               | 160             | 0.092352 |                                   |        |
|   | 50               | 123             | 0.070996 |                                   |        |

*Note: Only the worst case shown in the report.*



**LTE Band 5 part:**

| Reference Frequency: LTE Band 5 (10MHz) Middle channel=20525 channel=836.50MHz |                  |                 |          |             |        |
|--|------------------|-----------------|----------|-------------|--------|
| Power supplied (Vdc)   | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|  |                  | Hz              | ppm      |             |        |
| <b>QPSK</b>  |                  |                 |          |             |        |
| 3.87   | -30              | 173             | 0.206814 | ±2.5        | Pass   |
|  | -20              | 167             | 0.199641 |             |        |
|  | -10              | 159             | 0.190078 |             |        |
|  | 0                | 130             | 0.155409 |             |        |
|  | 10               | 124             | 0.148237 |             |        |
|  | 20               | 113             | 0.135087 |             |        |
|  | 30               | 153             | 0.182905 |             |        |
|  | 40               | 144             | 0.172146 |             |        |
|  | 50               | 136             | 0.162582 |             |        |
| <b>16QAM</b>   |                  |                 |          |             |        |
| 3.87   | -30              | 170             | 0.203228 | ±2.5        | Pass   |
|  | -20              | 154             | 0.184100 |             |        |
|  | -10              | 144             | 0.172146 |             |        |
|  | 0                | 136             | 0.162582 |             |        |
|  | 10               | 124             | 0.148237 |             |        |
|  | 20               | 119             | 0.142259 |             |        |
|  | 30               | 130             | 0.155409 |             |        |
|  | 40               | 112             | 0.133891 |             |        |
|  | 50               | 160             | 0.191273 |             |        |

*Note: Only the worst case shown in the report.*

**LTE Band 7 part:**

| Reference Frequency: LTE Band 7 (10MHz) Middle channel=21100 Frequency=2535.00MHz |                  |                 |          |                                   |        |
|---|------------------|-----------------|----------|-----------------------------------|--------|
| Power supplied (Vdc)  | Temperature (°C) | Frequency error |          | Limit (ppm)                       | Result |
|   |                  | Hz              | ppm      |                                   |        |
| <b>QPSK</b>   |                  |                 |          |                                   |        |
| 3.87  | -30              | 168             | 0.066272 | Within authorized band for Band 7 | Pass   |
|   | -20              | 156             | 0.061538 |                                   |        |
|   | -10              | 149             | 0.058777 |                                   |        |
|   | 0                | 127             | 0.050099 |                                   |        |
|   | 10               | 135             | 0.053254 |                                   |        |
|   | 20               | 121             | 0.047732 |                                   |        |
|   | 30               | 113             | 0.044576 |                                   |        |
|   | 40               | 162             | 0.063905 |                                   |        |
|   | 50               | 142             | 0.056016 |                                   |        |
| <b>16QAM</b>  |                  |                 |          |                                   |        |
| 3.87  | -30              | 166             | 0.065483 | Within authorized band for Band 7 | Pass   |
|   | -20              | 159             | 0.062722 |                                   |        |
|   | -10              | 121             | 0.047732 |                                   |        |
|   | 0                | 111             | 0.043787 |                                   |        |
|   | 10               | 153             | 0.060355 |                                   |        |
|   | 20               | 146             | 0.057594 |                                   |        |
|   | 30               | 134             | 0.052860 |                                   |        |
|   | 40               | 127             | 0.050099 |                                   |        |
|   | 50               | 139             | 0.054832 |                                   |        |

*Note: Only the worst case shown in the report.*

**LTE Band 17 part:**

| Reference Frequency: LTE Band 17 (10MHz) Middle channel=23790 channel=710.00MHz |                  |                 |          |                                    |        |
|---|------------------|-----------------|----------|------------------------------------|--------|
| Power supplied (Vdc)  | Temperature (°C) | Frequency error |          | Limit (ppm)                        | Result |
|   |                  | Hz              | ppm      |                                    |        |
| <b>QPSK</b>   |                  |                 |          |                                    |        |
| 3.87  | -30              | 173             | 0.243662 | Within authorized band for Band 17 | Pass   |
|   | -20              | 156             | 0.219718 |                                    |        |
|   | -10              | 140             | 0.197183 |                                    |        |
|   | 0                | 134             | 0.188732 |                                    |        |
|   | 10               | 110             | 0.154930 |                                    |        |
|   | 20               | 148             | 0.208451 |                                    |        |
|   | 30               | 130             | 0.183099 |                                    |        |
|   | 40               | 120             | 0.169014 |                                    |        |
|   | 50               | 162             | 0.228169 |                                    |        |
| <b>16QAM</b>  |                  |                 |          |                                    |        |
| 3.87  | -30              | 170             | 0.239437 | Within authorized band for Band 17 | Pass   |
|   | -20              | 166             | 0.233803 |                                    |        |
|   | -10              | 157             | 0.221127 |                                    |        |
|   | 0                | 118             | 0.166197 |                                    |        |
|   | 10               | 143             | 0.201408 |                                    |        |
|   | 20               | 134             | 0.188732 |                                    |        |
|   | 30               | 125             | 0.176056 |                                    |        |
|   | 40               | 109             | 0.153521 |                                    |        |
|   | 50               | 150             | 0.211268 |                                    |        |

*Note: Only the worst case shown in the report.*

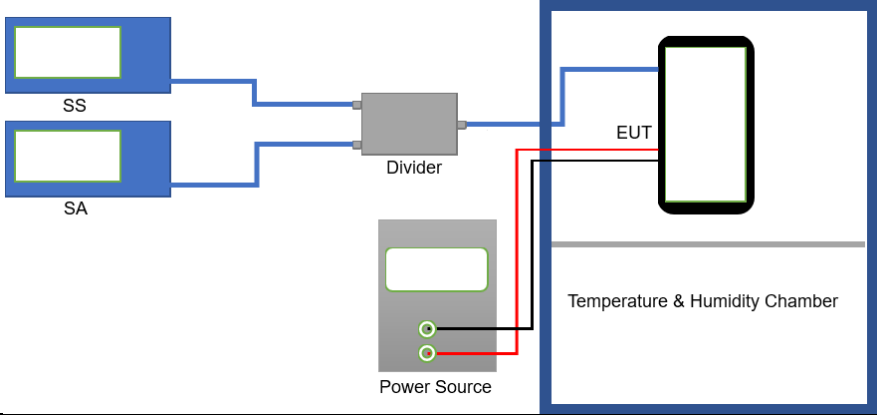
**LTE Band 38 part:**

| Reference Frequency: LTE Band 38 (10MHz) Middle channel=38000 channel=2595.00MHz |                  |                 |          |                                    |        |
|--|------------------|-----------------|----------|------------------------------------|--------|
| Power supplied (Vdc)   | Temperature (°C) | Frequency error |          | Limit (ppm)                        | Result |
|  |                  | Hz              | ppm      |                                    |        |
| <b>QPSK</b>  |                  |                 |          |                                    |        |
| 3.87   | -30              | 170             | 0.065511 | Within authorized band for Band 12 | Pass   |
|  | -20              | 160             | 0.061633 |                                    |        |
|  | -10              | 153             | 0.058914 |                                    |        |
|  | 0                | 145             | 0.055812 |                                    |        |
|  | 10               | 116             | 0.044633 |                                    |        |
|  | 20               | 107             | 0.041154 |                                    |        |
|  | 30               | 136             | 0.052288 |                                    |        |
|  | 40               | 130             | 0.049962 |                                    |        |
|  | 50               | 121             | 0.046485 |                                    |        |
| <b>16QAM</b>   |                  |                 |          |                                    |        |
| 3.87   | -30              | 167             | 0.064355 | Within authorized band for Band 12 | Pass   |
|  | -20              | 159             | 0.061248 |                                    |        |
|  | -10              | 154             | 0.059299 |                                    |        |
|  | 0                | 124             | 0.047729 |                                    |        |
|  | 10               | 116             | 0.044633 |                                    |        |
|  | 20               | 105             | 0.040385 |                                    |        |
|  | 30               | 143             | 0.054979 |                                    |        |
|  | 40               | 136             | 0.052267 |                                    |        |
|  | 50               | 130             | 0.049942 |                                    |        |
| <i>Note: Only the worst case shown in the report.</i>                            |                  |                 |          |                                    |        |

**LTE Band 41 part:**

| Reference Frequency: LTE Band 41 (5MHz)Middle channel=40740 channel=2605.0MHz |                  |                 |          |             |        |
|---|------------------|-----------------|----------|-------------|--------|
| Power supplied (Vdc)  | Temperature (°C) | Frequency error |          | Limit (ppm) | Result |
|   |                  | Hz              | ppm      |             |        |
| <b>QPSK</b>   |                  |                 |          |             |        |
| 3.87  | -30              | 178             | 0.068330 | ±2.5        | Pass   |
|   | -20              | 156             | 0.059885 |             |        |
|   | -10              | 149             | 0.057198 |             |        |
|   | 0                | 127             | 0.048752 |             |        |
|   | 10               | 135             | 0.051823 |             |        |
|   | 20               | 121             | 0.046449 |             |        |
|   | 30               | 113             | 0.043378 |             |        |
|   | 40               | 162             | 0.062188 |             |        |
|   | 50               | 142             | 0.054511 |             |        |
| <b>16QAM</b>  |                  |                 |          |             |        |
| 3.87  | -30              | 172             | 0.066027 | ±2.5        | Pass   |
|   | -20              | 166             | 0.063724 |             |        |
|   | -10              | 159             | 0.061036 |             |        |
|   | 0                | 121             | 0.046449 |             |        |
|   | 10               | 111             | 0.042610 |             |        |
|   | 20               | 153             | 0.058733 |             |        |
|   | 30               | 146             | 0.056046 |             |        |
|   | 40               | 134             | 0.051440 |             |        |
|   | 50               | 127             | 0.048752 |             |        |
| Note: Only the worst case shown in the report.                                |                  |                 |          |             |        |

### 6.7 Frequency stability V.S. Voltage measurement

|                   |  |
|-------------------|--|
| Test Requirement: | Part 22.355, Part 24.235, Part 27.54, Part 2.1055(d)(2)  |
| Limit:            | ±2.5 ppm for Band 5<br>Within authorized band for Band 2 & 4 & 7 & 17 & 38 & 41  |
| Test setup:       |    |
| 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 5.10 for details  |
| Test mode:        | Refer to section 5.3 for details   |
| Test results:     | Passed   |

**Measurement Data (worst case):**
**LTE Band 2 part:**

| Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz |                      |                 |          |                                   |        |
|--|----------------------|-----------------|----------|-----------------------------------|--------|
| Temperature (°C)   | Power supplied (Vdc) | Frequency error |          | Limit (ppm)                       | Result |
|  |                      | Hz              | ppm      |                                   |        |
| QPSK   |                      |                 |          |                                   |        |
| 25   | 4.35                 | 89              | 0.047340 | Within authorized band for Band 2 | Pass   |
|  | 3.80                 | 76              | 0.040426 |                                   |        |
|  | 3.50                 | 65              | 0.034574 |                                   |        |
| 16QAM  |                      |                 |          |                                   |        |
| 25   | 4.35                 | 80              | 0.042553 | Within authorized band for Band 2 | Pass   |
|  | 3.80                 | 74              | 0.039362 |                                   |        |
|  | 3.50                 | 53              | 0.028191 |                                   |        |

*Note: Only the worst case shown in the report.*

**LTE Band 4 part:**

| Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz |                      |                 |          |                                   |        |
|--|----------------------|-----------------|----------|-----------------------------------|--------|
| Temperature (°C)   | Power supplied (Vdc) | Frequency error |          | Limit (ppm)                       | Result |
|  |                      | Hz              | ppm      |                                   |        |
| QPSK   |                      |                 |          |                                   |        |
| 25   | 4.35                 | 80              | 0.046176 | Within authorized band for Band 4 | Pass   |
|  | 3.80                 | 70              | 0.040404 |                                   |        |
|  | 3.50                 | 59              | 0.034055 |                                   |        |
| 16QAM  |                      |                 |          |                                   |        |
| 25   | 4.35                 | 78              | 0.045022 | Within authorized band for Band 4 | Pass   |
|  | 3.80                 | 68              | 0.039250 |                                   |        |
|  | 3.50                 | 58              | 0.033478 |                                   |        |

*Note: Only the worst case shown in the report.*

**LTE Band 5 part:**

| Reference Frequency: LTE Band 5(10MHz) Middle channel=20525 channel=836.50MHz |                      |                 |          |             |        |
|---|----------------------|-----------------|----------|-------------|--------|
| Temperature (°C)  | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|   |                      | Hz              | ppm      |             |        |
| QPSK  |                      |                 |          |             |        |
| 25  | 4.35                 | 88              | 0.105200 | ±2.5        | Pass   |
|   | 3.80                 | 70              | 0.083682 |             |        |
|   | 3.50                 | 60              | 0.071727 |             |        |
| 16QAM   |                      |                 |          |             |        |
| 25  | 4.35                 | 80              | 0.095637 | ±2.5        | Pass   |
|   | 3.80                 | 74              | 0.088464 |             |        |
|   | 3.50                 | 53              | 0.063359 |             |        |

*Note: Only the worst case shown in the report.*

**LTE Band 7 part:**

| Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.00MHz |                      |                 |          |                                   |        |
|--|----------------------|-----------------|----------|-----------------------------------|--------|
| Temperature (°C)   | Power supplied (Vdc) | Frequency error |          | Limit (ppm)                       | Result |
|  |                      | Hz              | ppm      |                                   |        |
| QPSK   |                      |                 |          |                                   |        |
| 25   | 4.35                 | 90              | 0.035503 | Within authorized band for Band 7 | Pass   |
|  | 3.80                 | 76              | 0.029980 |                                   |        |
|  | 3.50                 | 54              | 0.021302 |                                   |        |
| 16QAM  |                      |                 |          |                                   |        |
| 25   | 4.35                 | 83              | 0.032742 | Within authorized band for Band 7 | Pass   |
|  | 3.80                 | 62              | 0.024458 |                                   |        |
|  | 3.50                 | 74              | 0.029191 |                                   |        |

*Note: Only the worst case shown in the report.*

**LTE Band 17 part:**

| Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 channel=710.00MHz |                      |                 |          |                                    |        |
|--|----------------------|-----------------|----------|------------------------------------|--------|
| Temperature (°C)   | Power supplied (Vdc) | Frequency error |          | Limit (ppm)                        | Result |
|  |                      | Hz              | ppm      |                                    |        |
| QPSK   |                      |                 |          |                                    |        |
| 25   | 4.35                 | 88              | 0.123944 | Within authorized band for Band 17 | Pass   |
|  | 3.80                 | 66              | 0.092958 |                                    |        |
|  | 3.50                 | 77              | 0.108451 |                                    |        |
| 16QAM  |                      |                 |          |                                    |        |
| 25   | 4.35                 | 83              | 0.116901 | Within authorized band for Band 17 | Pass   |
|  | 3.80                 | 61              | 0.085915 |                                    |        |
|  | 3.50                 | 70              | 0.098592 |                                    |        |

*Note: Only the worst case shown in the report.*

**LTE Band 38 part:**

| Reference Frequency: LTE Band 38(10MHz) Middle channel=38000 channel=2595.00MHz |                      |                 |          |             |        |
|---|----------------------|-----------------|----------|-------------|--------|
| Temperature (°C)  | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|   |                      | Hz              | ppm      |             |        |
| QPSK  |                      |                 |          |             |        |
| 25  | 4.40                 | 91              | 0.035067 | ±2.5        | Pass   |
|   | 3.85                 | 50              | 0.019260 |             |        |
|   | 3.55                 | 73              | 0.028109 |             |        |
| 16QAM   |                      |                 |          |             |        |
| 25  | 4.40                 | 84              | 0.032295 | ±2.5        | Pass   |
|   | 3.85                 | 72              | 0.027671 |             |        |
|   | 3.55                 | 60              | 0.023050 |             |        |

*Note: Only the worst case shown in the report.*



**LTE Band 41 part:**

| Reference Frequency: LTE Band 41 (10MHz) Middle channel=40740 channel=2605.0MHz |                      |                 |          |             |        |
|---|----------------------|-----------------|----------|-------------|--------|
| Temperature (°C)  | Power supplied (Vdc) | Frequency error |          | Limit (ppm) | Result |
|   |                      | Hz              | ppm      |             |        |
| QPSK  |                      |                 |          |             |        |
| 25  | 4.40                 | 85              | 0.032630 | ±2.5        | Pass   |
|   | 3.85                 | 76              | 0.029175 |             |        |
|   | 3.55                 | 64              | 0.024568 |             |        |
| 16QAM   |                      |                 |          |             |        |
| 25  | 4.40                 | 84              | 0.032246 | ±2.5        | Pass   |
|   | 3.85                 | 53              | 0.020345 |             |        |
|   | 3.55                 | 69              | 0.026488 |             |        |
| <i>Note: Only the worst case shown in the report.</i>                           |                      |                 |          |             |        |