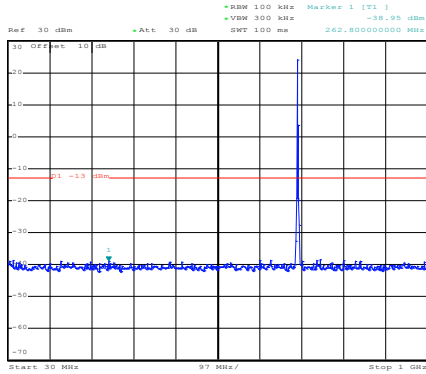
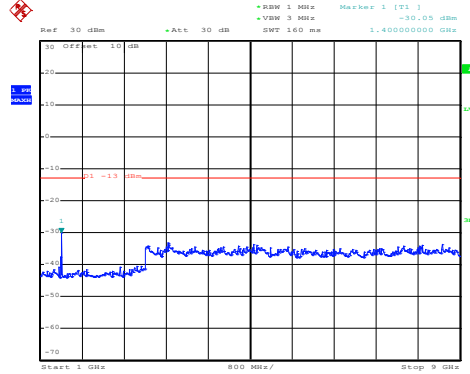


LTE Band 12: 16 QAM & RB Size 1  
 BW: 3MHz  
 Lowest channel



Date: 14.AUG.2019 17:09:13

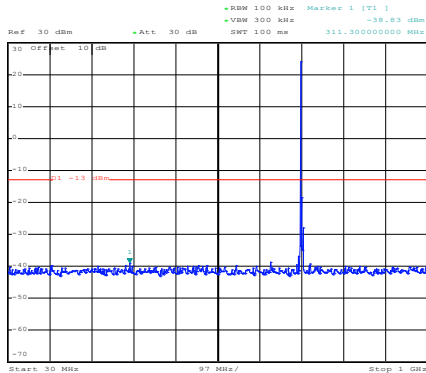
30MHz~1GHz



Date: 15.AUG.2019 19:25:23

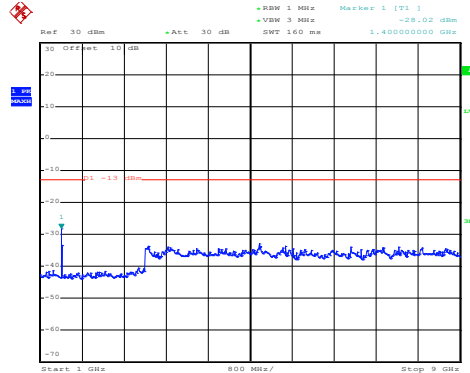
1GHz~25GHz

Middle channel



Date: 15.AUG.2019 17:49:44

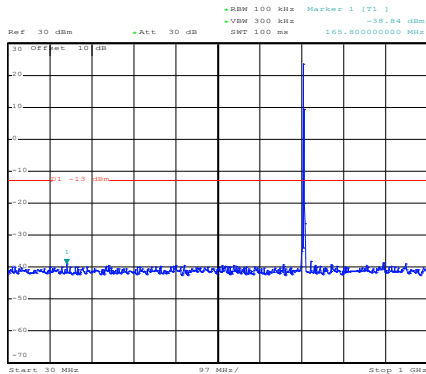
30MHz~1GHz



Date: 15.AUG.2019 19:26:27

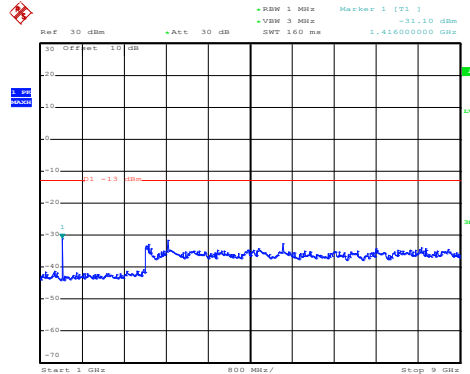
1GHz~25GHz

High channel



Date: 14.AUG.2019 17:10:28

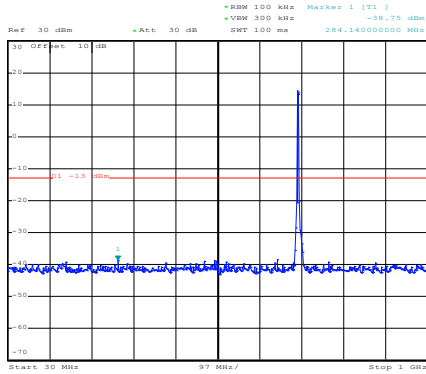
30MHz~1GHz



Date: 15.AUG.2019 19:26:50

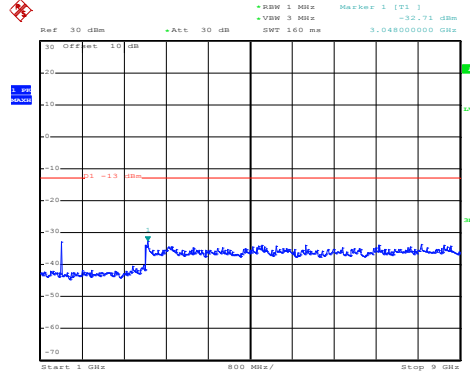
1GHz~25GHz

LTE Band 12: 16 QAM & RB Size 15  
 BW: 3MHz  
 Lowest channel



Date: 14.AUG.2019 17:09:36

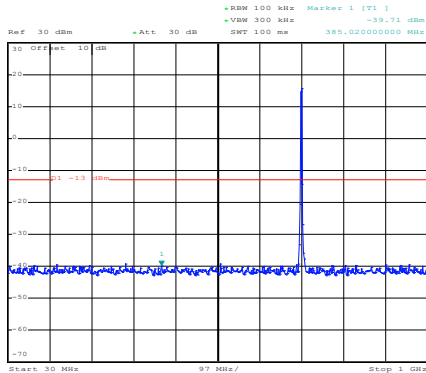
30MHz~1GHz



Date: 15.AUG.2019 19:25:44

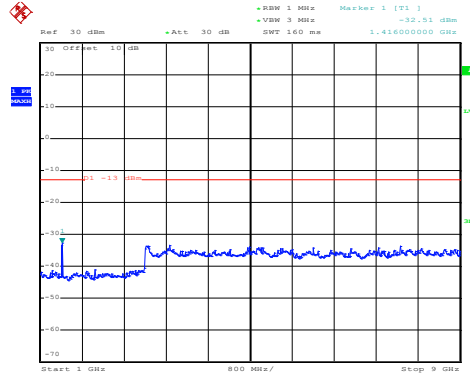
1GHz~25GHz

Middle channel



Date: 15.AUG.2019 17:50:06

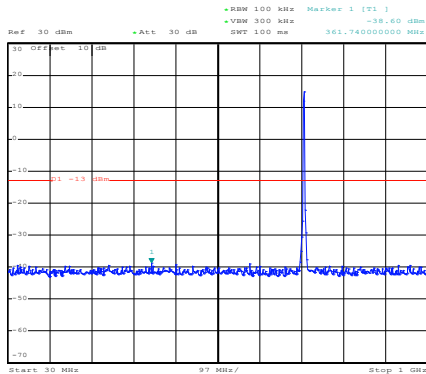
30MHz~1GHz



Date: 15.AUG.2019 19:26:08

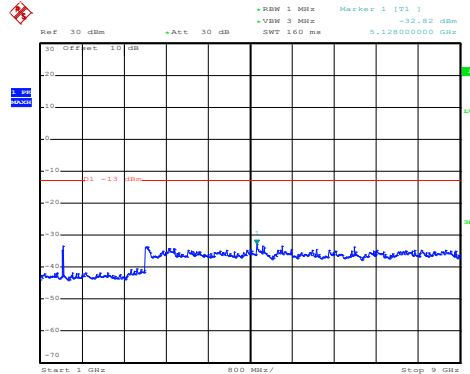
1GHz~25GHz

High channel



Date: 14.AUG.2019 17:10:07

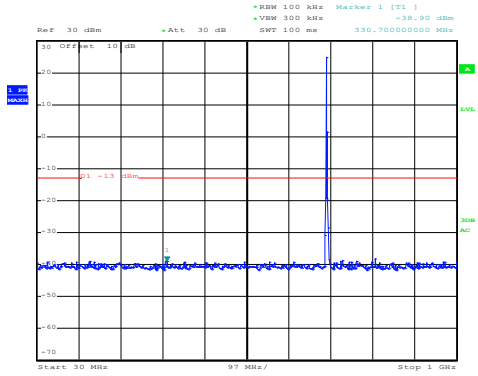
30MHz~1GHz



Date: 15.AUG.2019 19:27:09

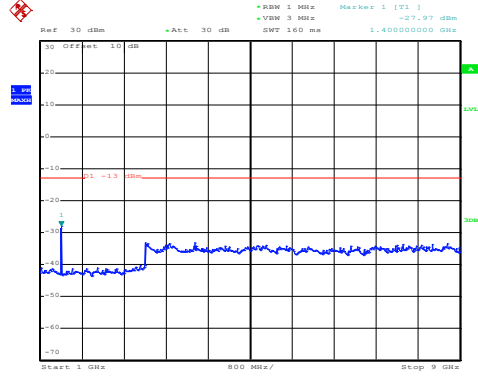
1GHz~25GHz

## LTE Band 12: QPSK & RB Size 1 BW: 3MHz Lowest channel



Date: 14.AUG.2019 17:08:48

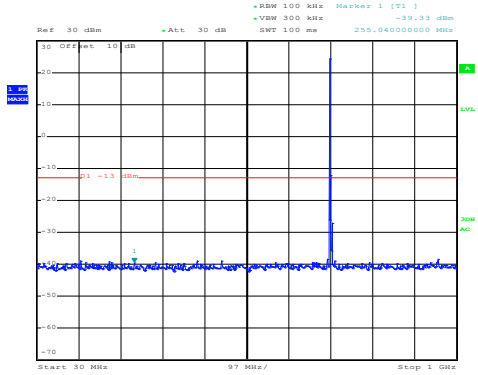
30MHz~1GHz



Date: 15.AUG.2019 19:25:16

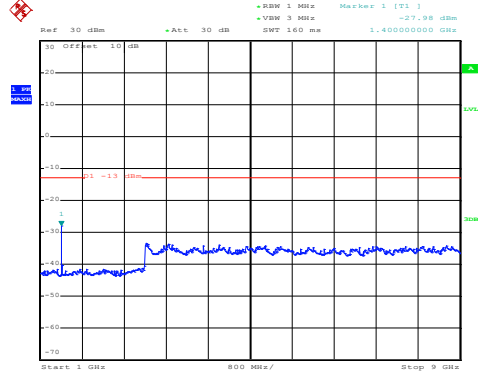
1GHz~25GHz

## Middle channel



Date: 15.AUG.2019 17:49:37

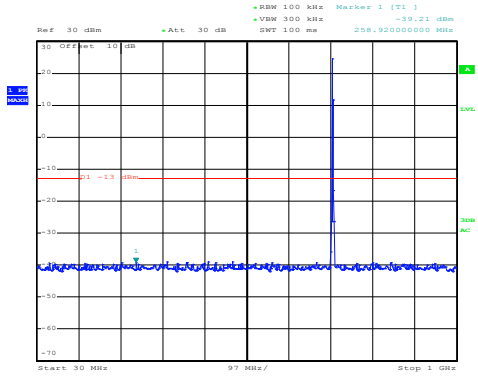
30MHz~1GHz



Date: 15.AUG.2019 19:26:20

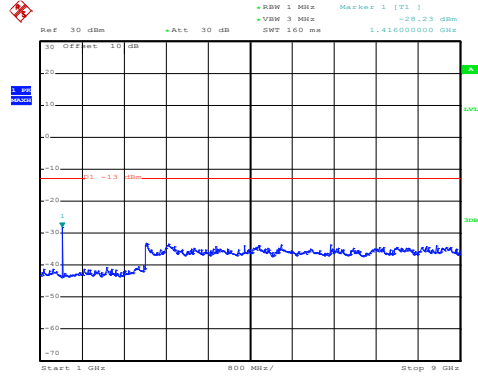
1GHz~25GHz

## High channel



Date: 14.AUG.2019 17:10:20

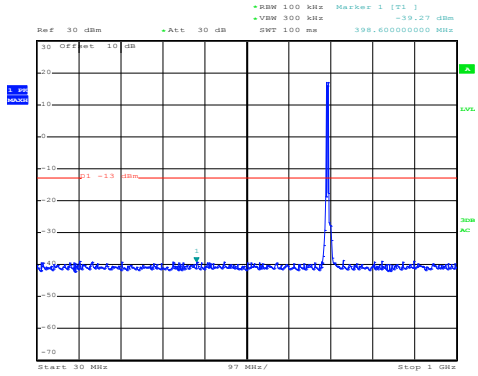
30MHz~1GHz



Date: 15.AUG.2019 19:26:44

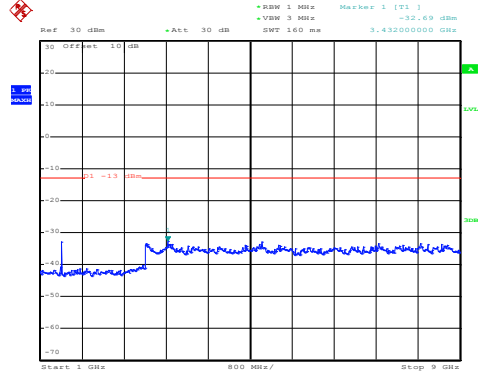
1GHz~25GHz

## LTE Band 12: QPSK & RB Size 15 BW: 3MHz Lowest channel



Date: 14.AUG.2019 17:09:27

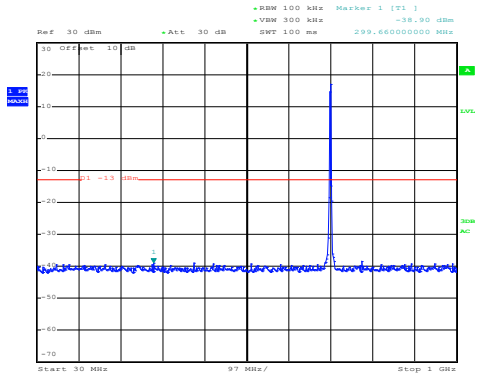
30MHz~1GHz



Date: 15.AUG.2019 19:25:37

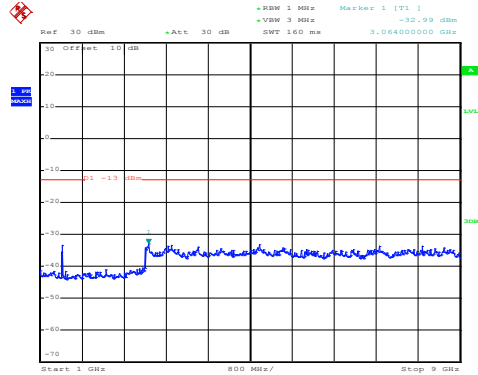
1GHz~25GHz

## Middle channel



Date: 15.AUG.2019 17:49:58

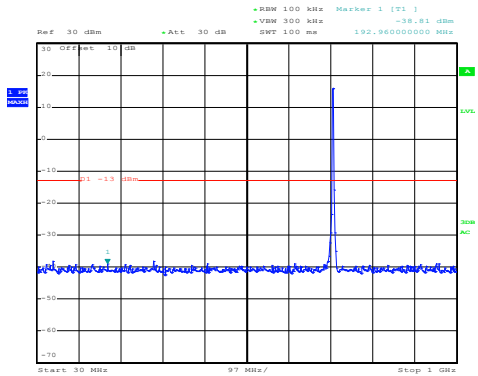
30MHz~1GHz



Date: 15.AUG.2019 19:26:00

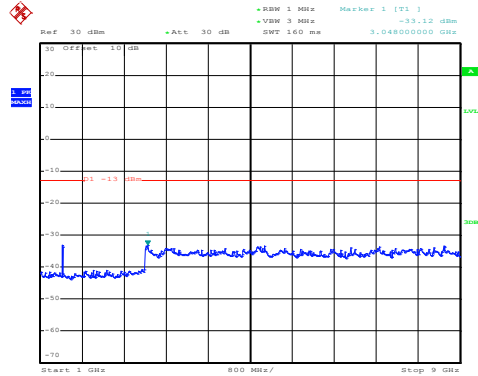
1GHz~25GHz

## High channel



Date: 14.AUG.2019 17:09:59

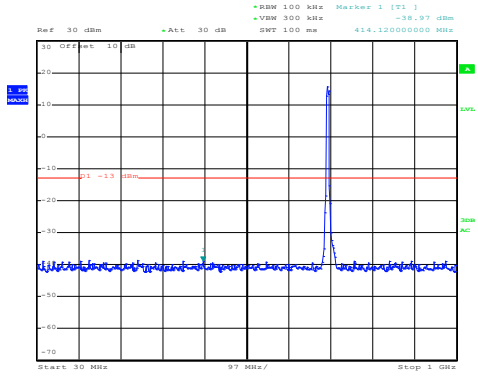
30MHz~1GHz



Date: 15.AUG.2019 19:27:01

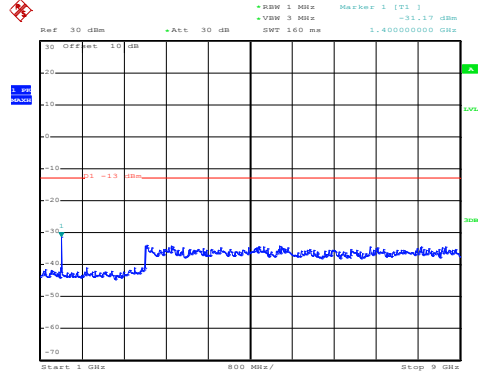
1GHz~25GHz

LTE Band 12: 16 QAM & RB Size 1  
 BW: 5MHz  
 Lowest channel



Date: 14.AUG.2019 17:11:35

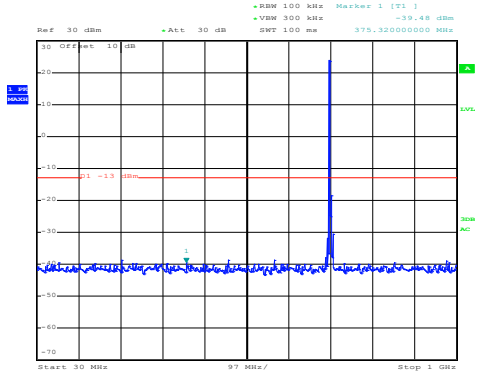
30MHz~1GHz



Date: 15.AUG.2019 19:22:25

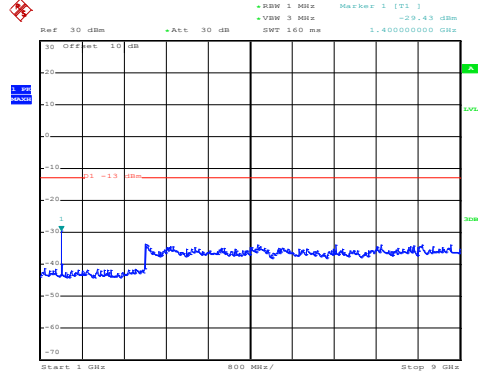
1GHz~25GHz

Middle channel



Date: 15.AUG.2019 17:48:54

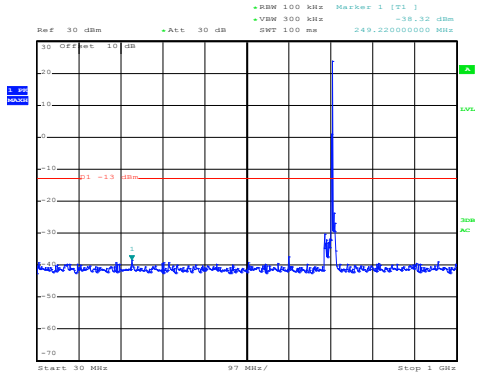
30MHz~1GHz



Date: 15.AUG.2019 19:23:36

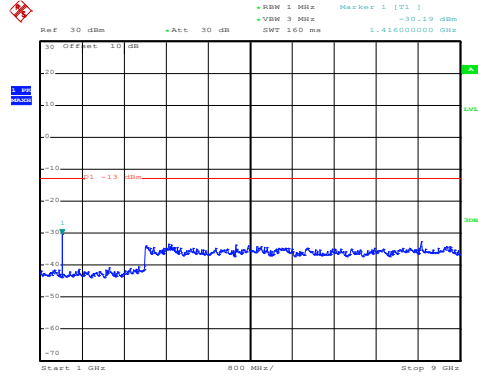
1GHz~25GHz

High channel



Date: 14.AUG.2019 17:13:05

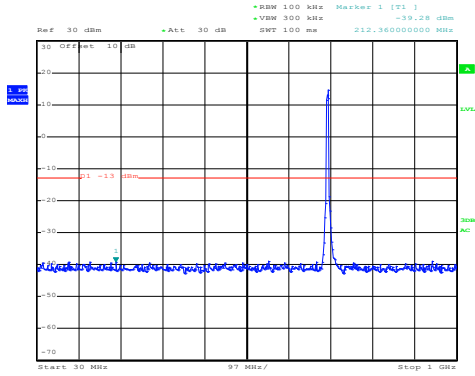
30MHz~1GHz



Date: 15.AUG.2019 19:24:03

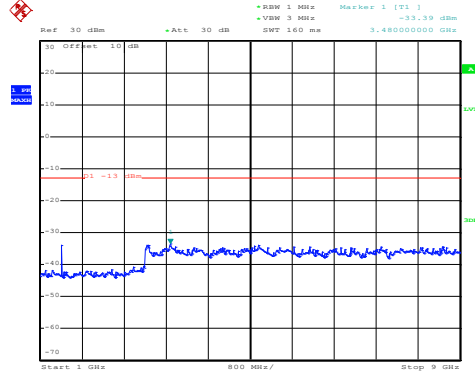
1GHz~25GHz

LTE Band 12: 16 QAM & RB Size 25  
 BW: 5MHz  
 Lowest channel



Date: 14.AUG.2019 17:12:05

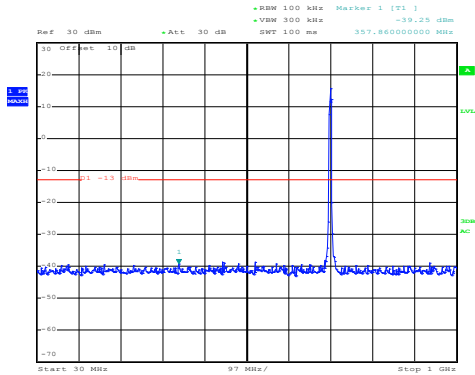
30MHz~1GHz



Date: 15.AUG.2019 19:22:44

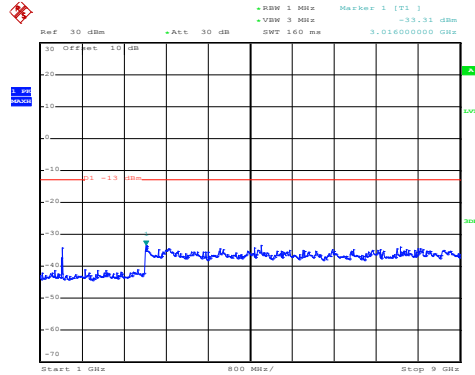
1GHz~25GHz

Middle channel



Date: 15.AUG.2019 17:49:20

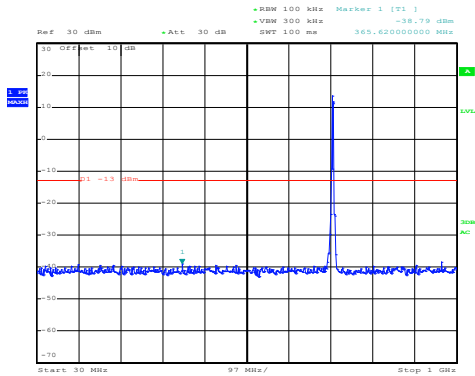
30MHz~1GHz



Date: 15.AUG.2019 19:23:19

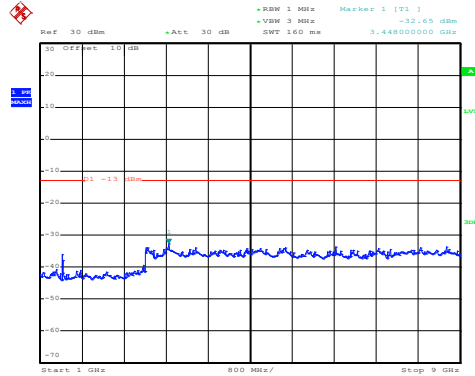
1GHz~25GHz

High channel



Date: 14.AUG.2019 17:12:43

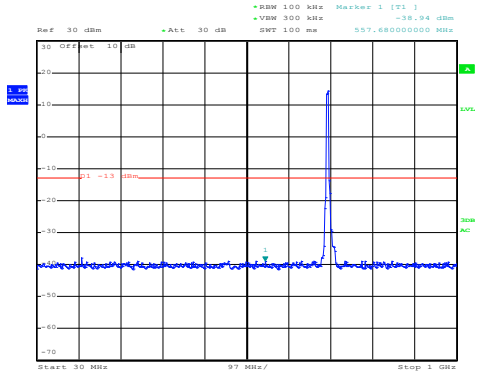
30MHz~1GHz



Date: 15.AUG.2019 19:24:23

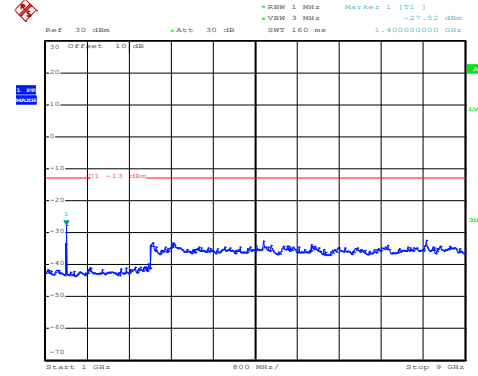
1GHz~25GHz

LTE Band 12: QPSK & RB Size 1  
 BW: 5MHz  
 Lowest channel



Date: 14.AUG.2019 17:11:24

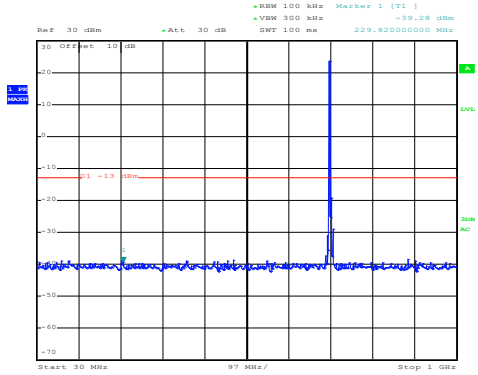
30MHz~1GHz



Date: 15.AUG.2019 19:22:20

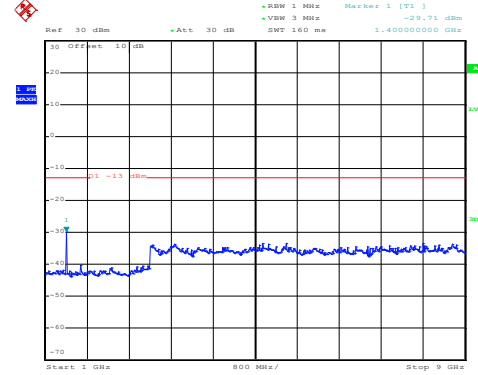
1GHz~25GHz

Middle channel



Date: 15.AUG.2019 17:48:48

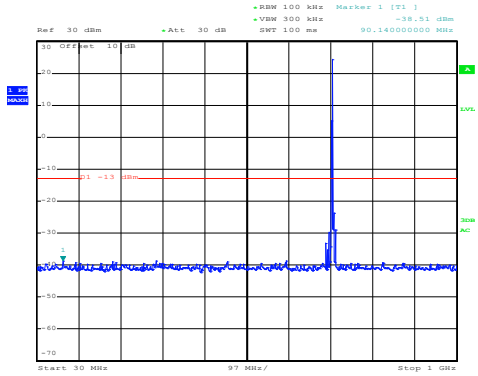
30MHz~1GHz



Date: 15.AUG.2019 19:23:30

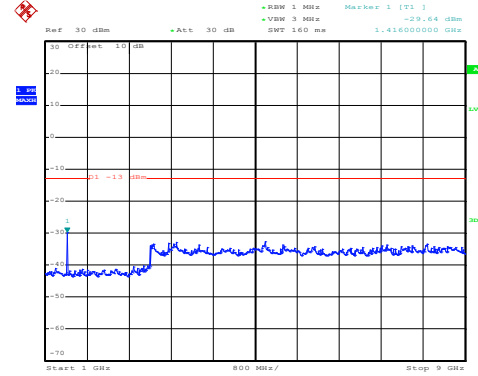
1GHz~25GHz

High channel



Date: 14.AUG.2019 17:12:57

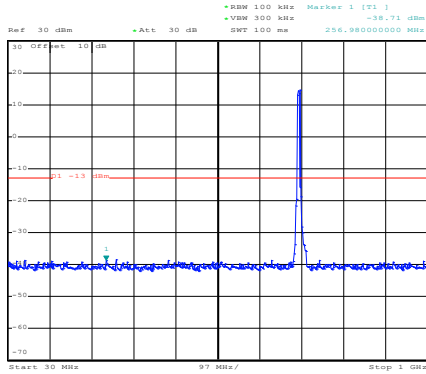
30MHz~1GHz



Date: 15.AUG.2019 19:23:55

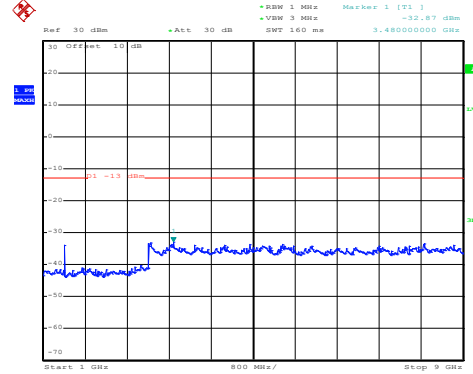
1GHz~25GHz

LTE Band 12: QPSK & RB Size 25  
 BW: 5MHz  
 Lowest channel



Date: 14.AUG.2019 17:11:54

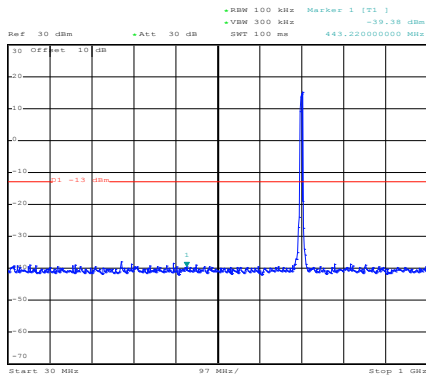
30MHz~1GHz



Date: 15.AUG.2019 19:22:36

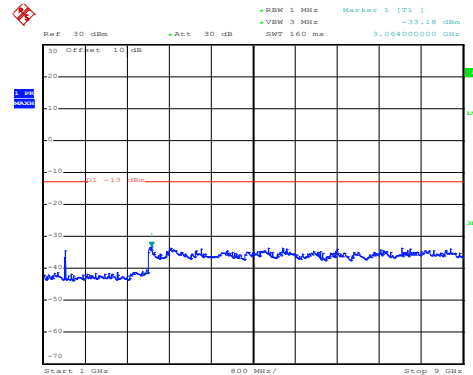
1GHz~25GHz

Middle channel



Date: 15.AUG.2019 17:49:12

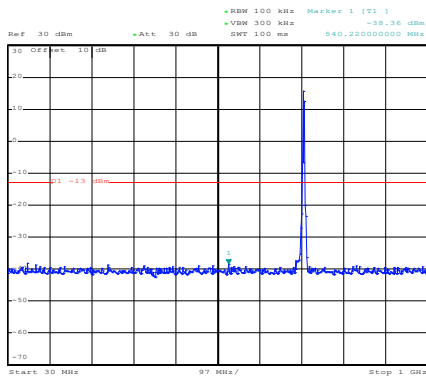
30MHz~1GHz



Date: 15.AUG.2019 19:23:13

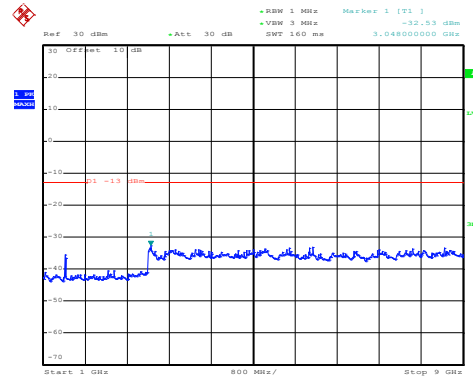
1GHz~25GHz

High channel



Date: 14.AUG.2019 17:12:34

30MHz~1GHz

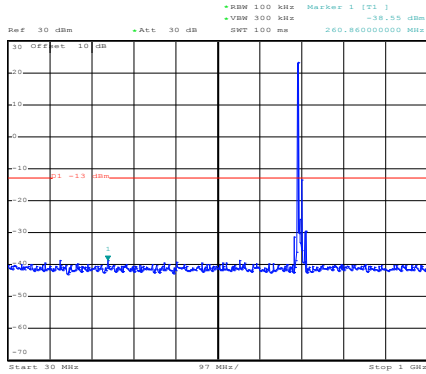


Date: 15.AUG.2019 19:24:14

1GHz~25GHz

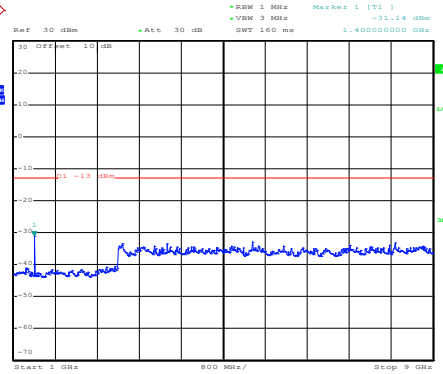


LTE Band 12: 16 QAM & RB Size 1  
 BW: 10MHz  
 Lowest channel



Date: 14.AUG.2019 17:13:59

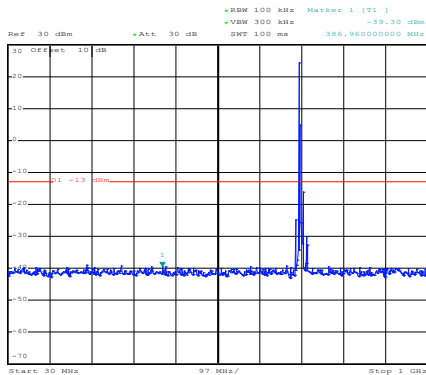
30MHz~1GHz



Date: 15.AUG.2019 19:20:08

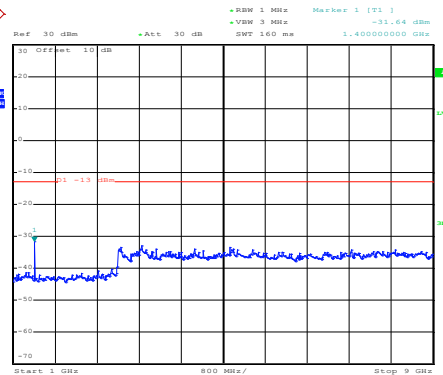
1GHz~25GHz

Middle channel



Date: 15.AUG.2019 17:48:04

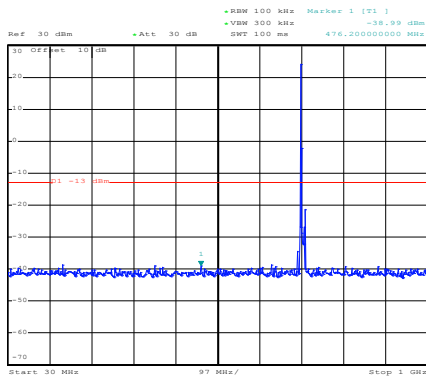
30MHz~1GHz



Date: 15.AUG.2019 19:20:34

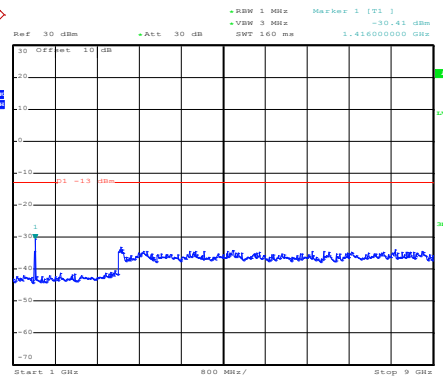
1GHz~25GHz

High channel



Date: 14.AUG.2019 17:15:22

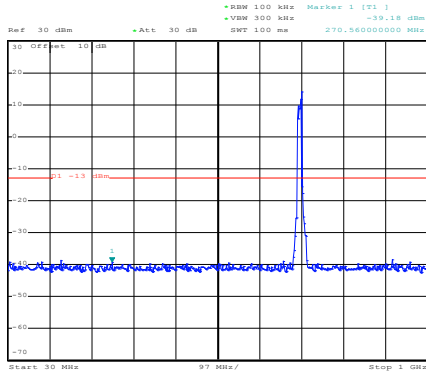
30MHz~1GHz



Date: 15.AUG.2019 19:21:33

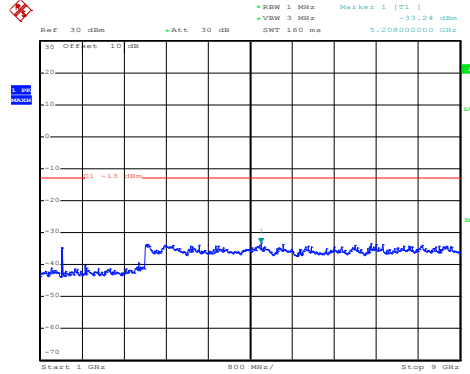
1GHz~25GHz

LTE Band 12: 16 QAM & RB Size 50  
 BW: 10MHz  
 Lowest channel



Date: 14.AUG.2019 17:14:28

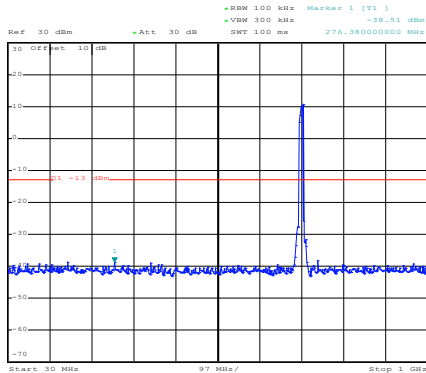
30MHz~1GHz



Date: 15.AUG.2019 19:19:45

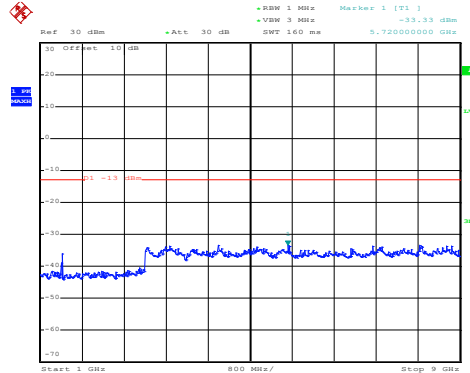
1GHz~25GHz

Middle channel



Date: 15.AUG.2019 17:48:25

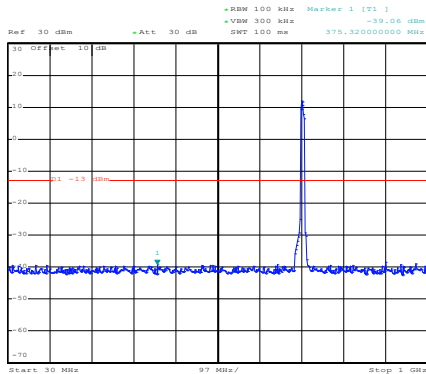
30MHz~1GHz



Date: 15.AUG.2019 19:20:53

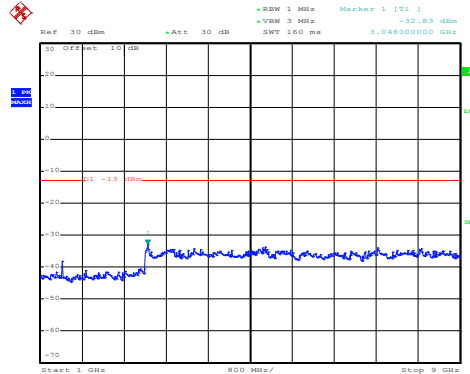
1GHz~25GHz

High channel



Date: 14.AUG.2019 17:14:59

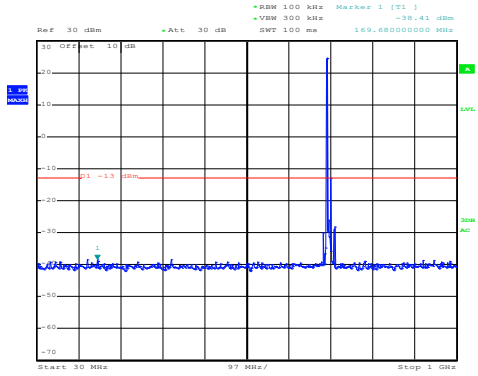
30MHz~1GHz



Date: 15.AUG.2019 19:21:16

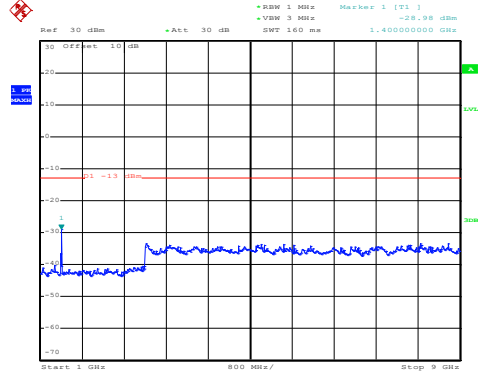
1GHz~25GHz

## LTE Band 12: QPSK & RB Size 1 BW: 10MHz Lowest channel



Date: 14.AUG.2019 17:13:52

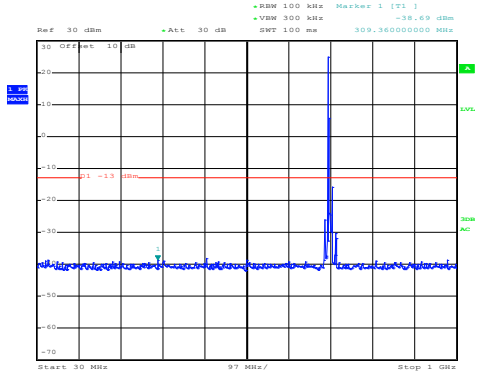
30MHz~1GHz



Date: 15.AUG.2019 19:19:59

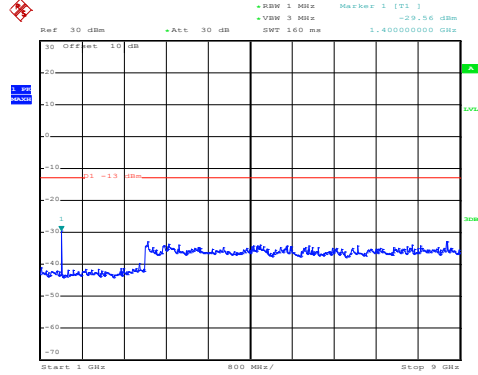
1GHz~25GHz

## Middle channel



Date: 15.AUG.2019 17:47:56

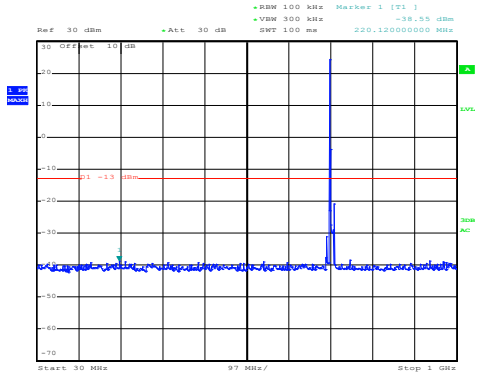
30MHz~1GHz



Date: 15.AUG.2019 19:20:27

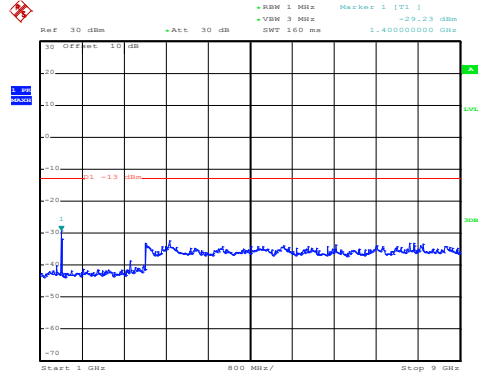
1GHz~25GHz

## High channel



Date: 14.AUG.2019 17:15:14

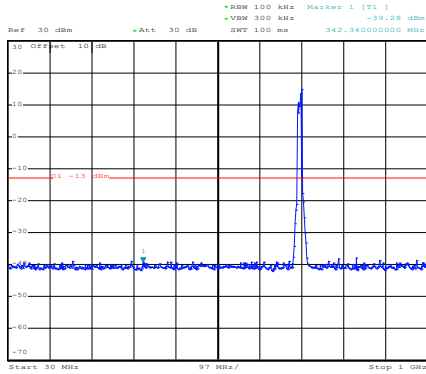
30MHz~1GHz



Date: 15.AUG.2019 19:21:27

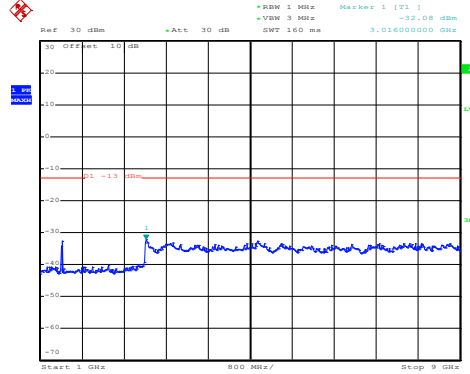
1GHz~25GHz

LTE Band 12: QPSK & RB Size 50  
 BW: 10MHz  
 Lowest channel



Date: 14.AUG.2019 17:14:16

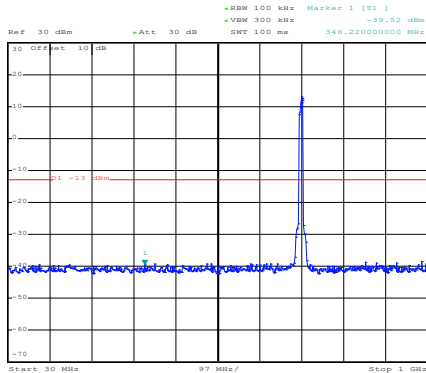
30MHz~1GHz



Date: 15.AUG.2019 19:19:32

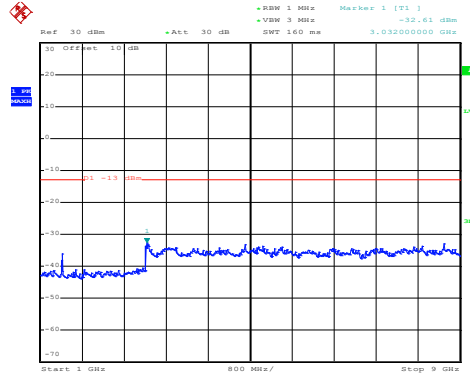
1GHz~25GHz

Middle channel



Date: 15.AUG.2019 17:48:16

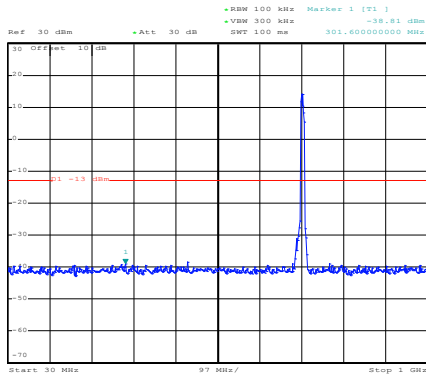
30MHz~1GHz



Date: 15.AUG.2019 19:20:45

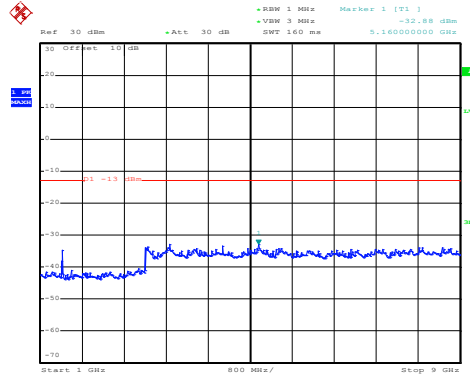
1GHz~25GHz

High channel



Date: 14.AUG.2019 17:14:48

30MHz~1GHz

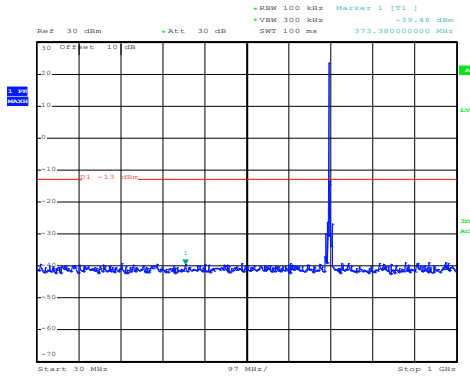


Date: 15.AUG.2019 19:21:09

1GHz~25GHz

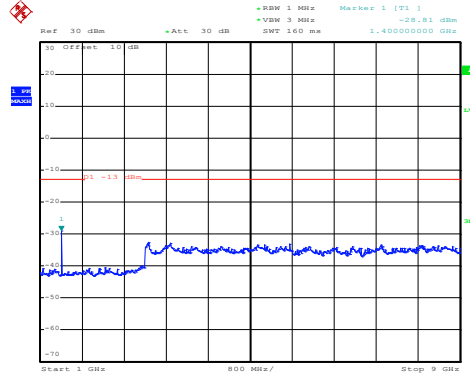
LTE Band 17 part:

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



Date: 14.AUG.2019 17:02:48

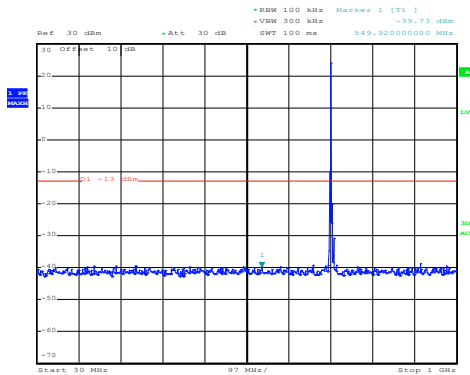
30MHz~1GHz



Date: 15.AUG.2019 19:11:14

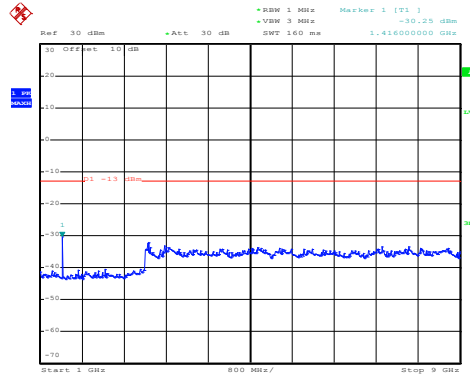
1GHz~25GHz

Middle channel



Date: 15.AUG.2019 17:52:02

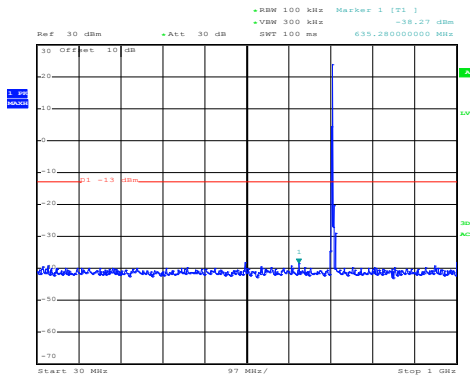
30MHz~1GHz



Date: 15.AUG.2019 19:09:30

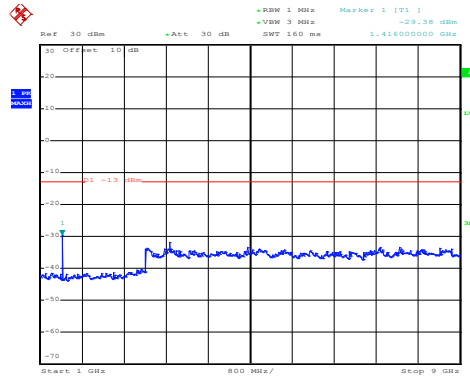
1GHz~25GHz

High channel



Date: 14.AUG.2019 17:04:31

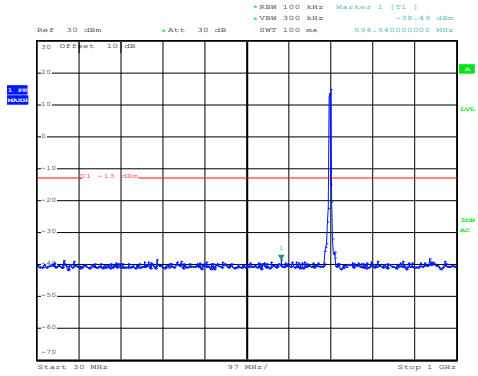
30MHz~1GHz



Date: 15.AUG.2019 19:08:38

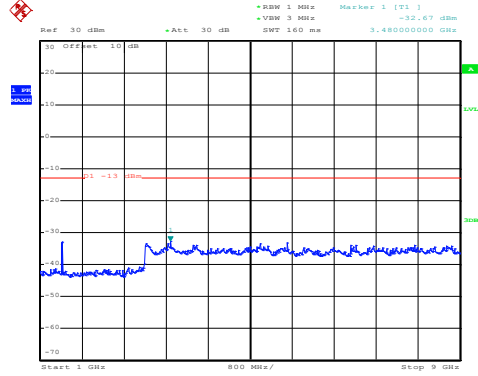
1GHz~25GHz

LTE Band 17: 16 QAM & RB Size 25  
 BW: 5MHz  
 Lowest channel



Date: 14.AUG.2019 17:03:29

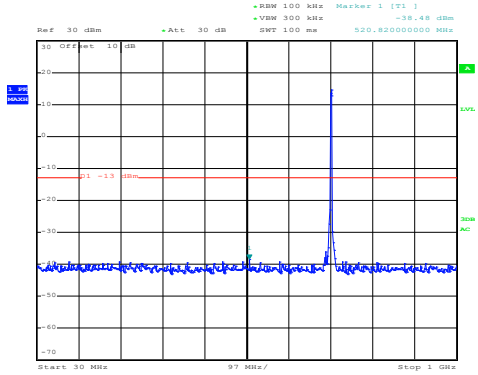
30MHz~1GHz



Date: 15.AUG.2019 19:11:45

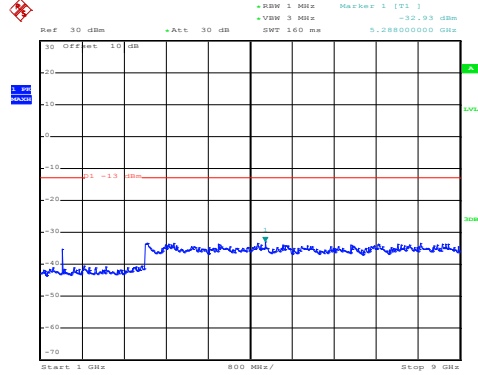
1GHz~25GHz

Middle channel



Date: 15.AUG.2019 17:52:21

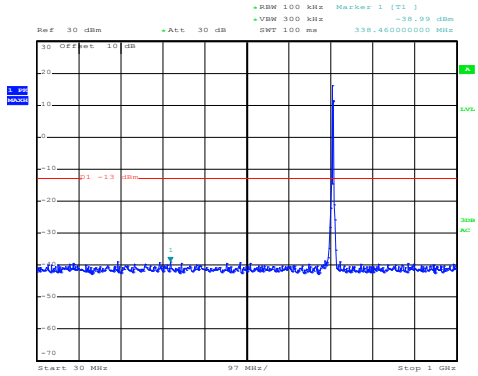
30MHz~1GHz



Date: 15.AUG.2019 19:10:01

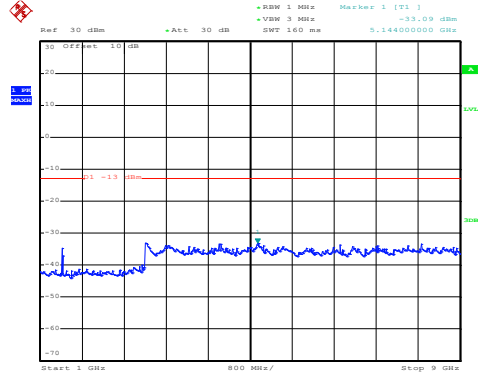
1GHz~25GHz

High channel



Date: 14.AUG.2019 17:04:08

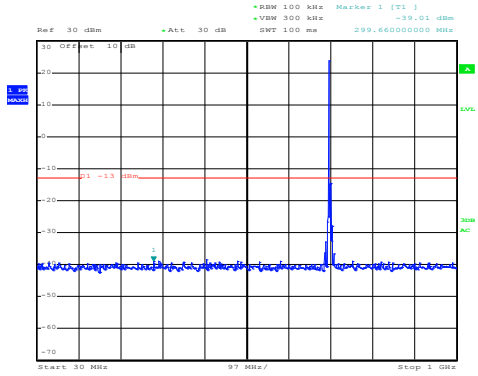
30MHz~1GHz



Date: 15.AUG.2019 19:08:14

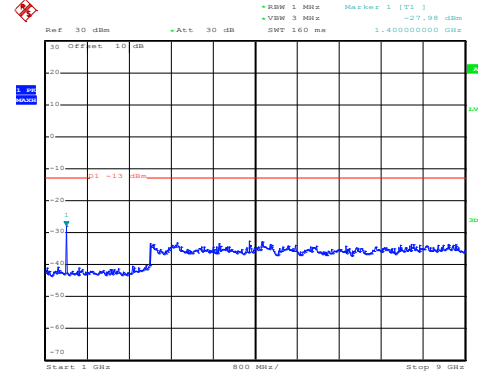
1GHz~25GHz

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



Date: 14.AUG.2019 17:02:36

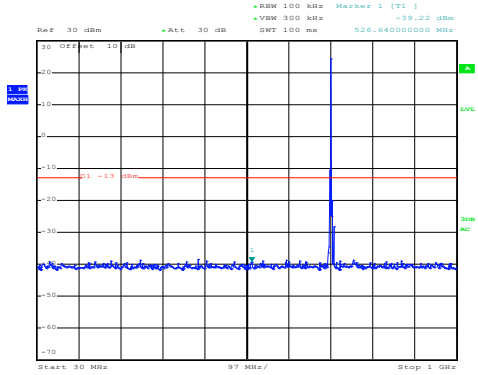
30MHz~1GHz



Date: 15.AUG.2019 19:10:50

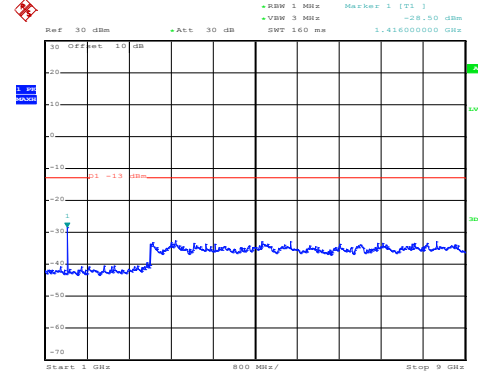
1GHz~25GHz

Middle channel



Date: 15.AUG.2019 17:51:54

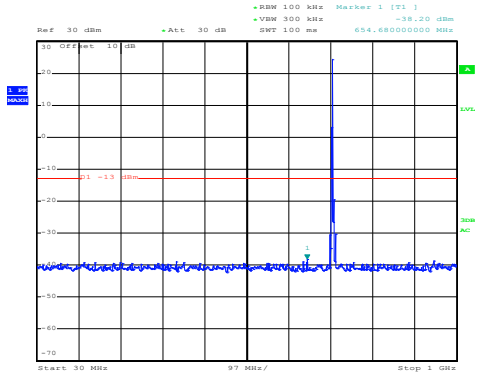
30MHz~1GHz



Date: 15.AUG.2019 19:09:18

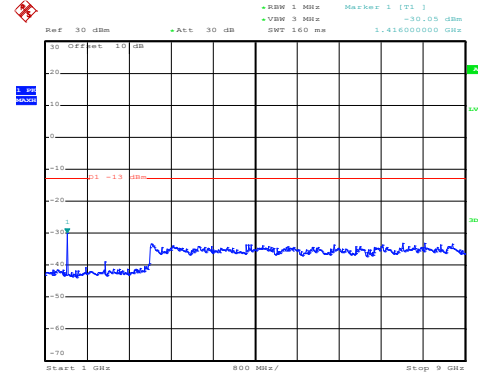
1GHz~25GHz

High channel



Date: 14.AUG.2019 17:04:23

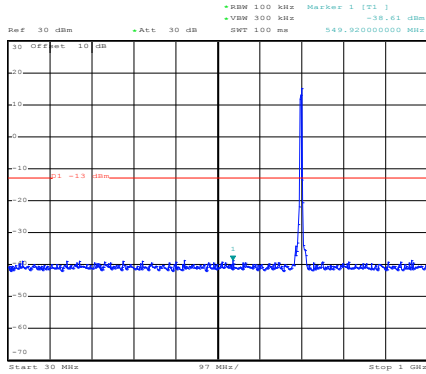
30MHz~1GHz



Date: 15.AUG.2019 19:08:27

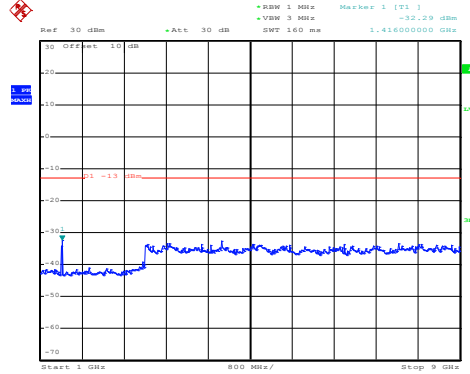
1GHz~25GHz

LTE Band 17: QPSK & RB Size 25  
 BW: 5MHz  
 Lowest channel



Date: 14.AUG.2019 17:03:04

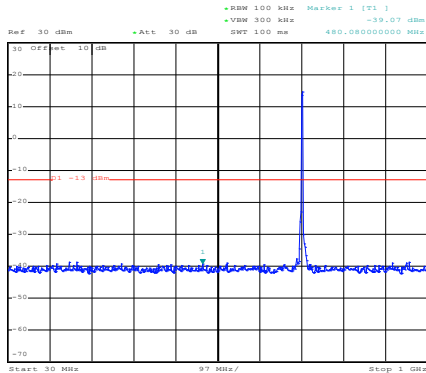
30MHz~1GHz



Date: 15.AUG.2019 19:11:37

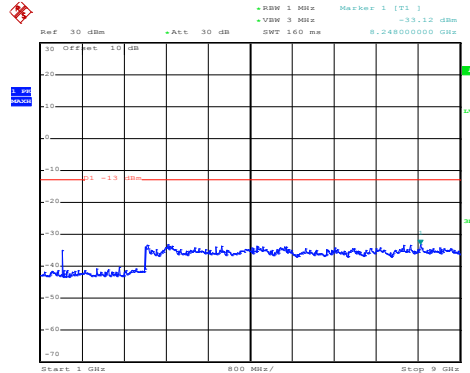
1GHz~25GHz

Middle channel



Date: 15.AUG.2019 17:52:15

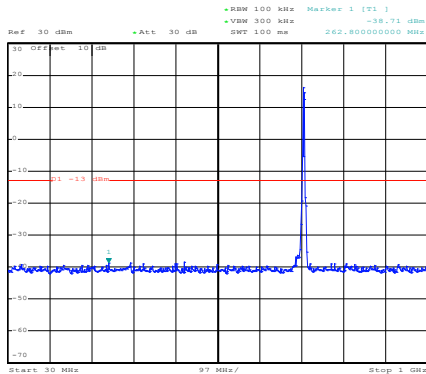
30MHz~1GHz



Date: 15.AUG.2019 19:09:46

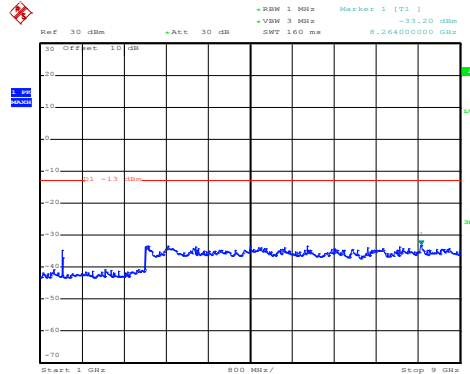
1GHz~25GHz

High channel



Date: 14.AUG.2019 17:03:58

30MHz~1GHz

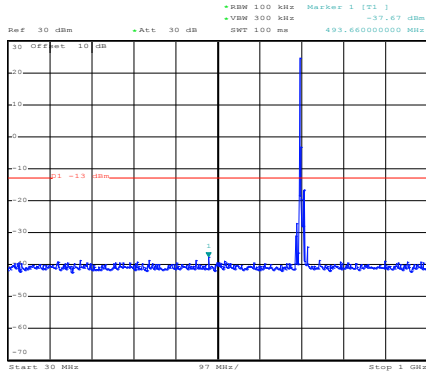


Date: 15.AUG.2019 19:08:03

1GHz~25GHz

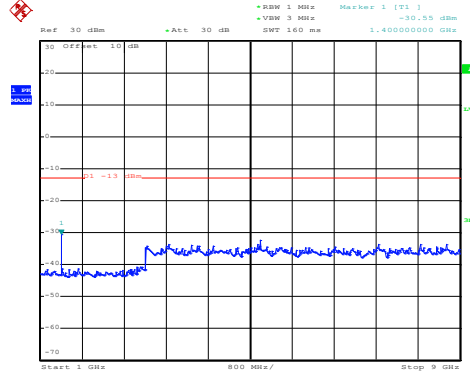


LTE Band 17: 16 QAM & RB Size 1  
 BW: 10MHz  
 Lowest channel



Date: 14.AUG.2019 17:00:00

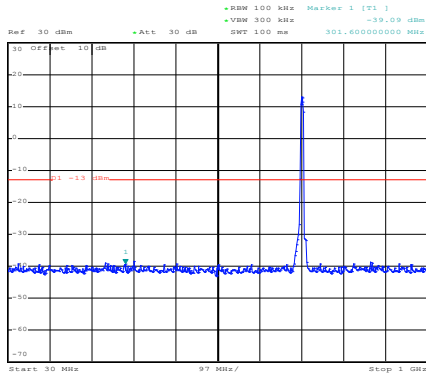
30MHz~1GHz



Date: 15.AUG.2019 19:14:04

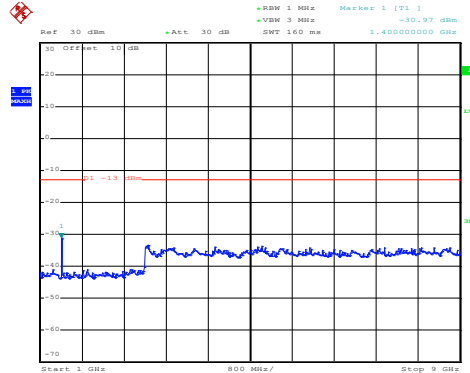
1GHz~25GHz

Middle channel



Date: 15.AUG.2019 17:52:57

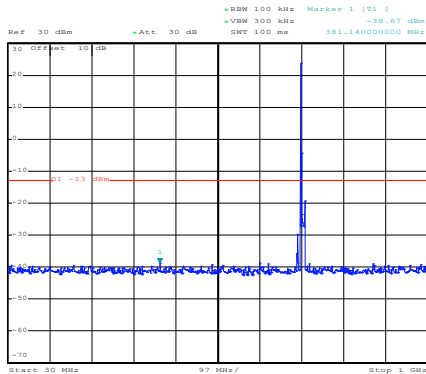
30MHz~1GHz



Date: 15.AUG.2019 19:13:38

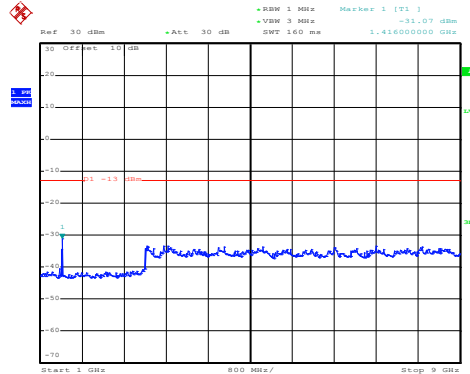
1GHz~25GHz

High channel



Date: 14.AUG.2019 16:57:55

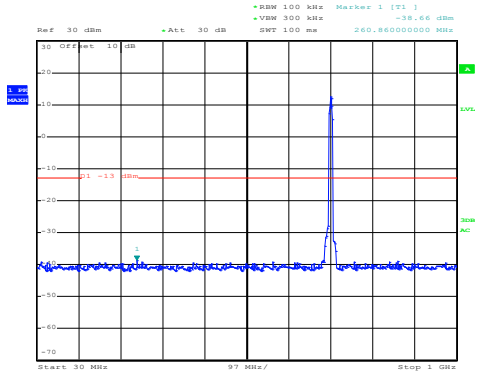
30MHz~1GHz



Date: 15.AUG.2019 19:15:08

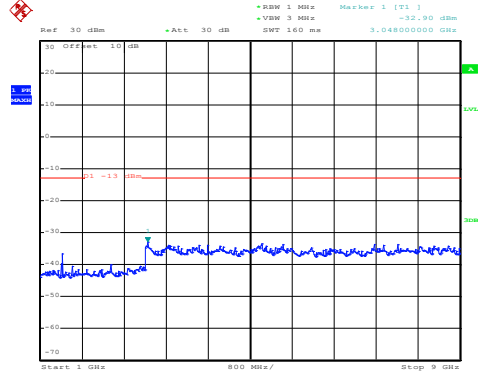
1GHz~25GHz

LTE Band 17: 16 QAM & RB Size 50  
 BW: 10MHz  
 Lowest channel



Date: 14.AUG.2019 16:59:24

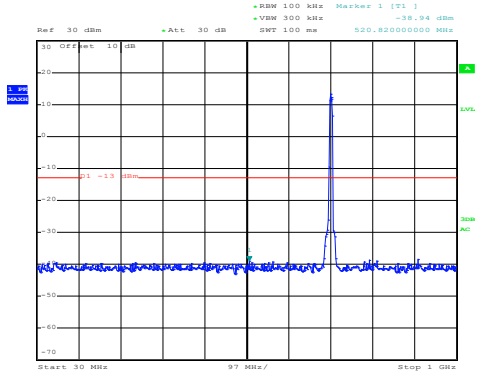
30MHz~1GHz



Date: 15.AUG.2019 19:14:21

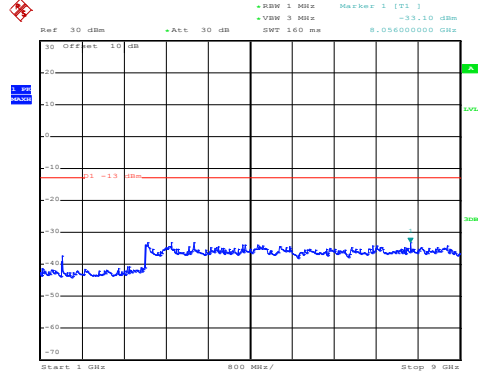
1GHz~25GHz

Middle channel



Date: 15.AUG.2019 17:53:19

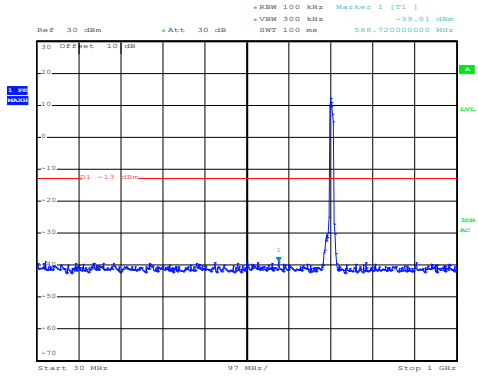
30MHz~1GHz



Date: 15.AUG.2019 19:13:21

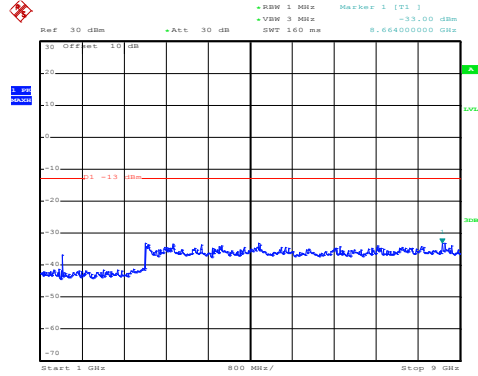
1GHz~25GHz

High channel



Date: 14.AUG.2019 16:58:39

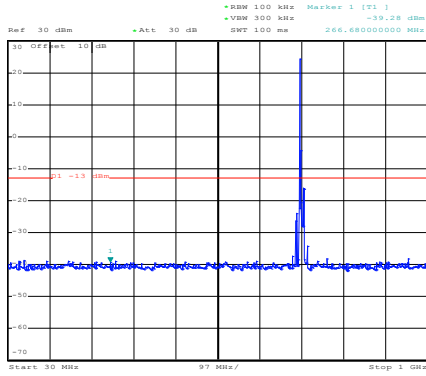
30MHz~1GHz



Date: 15.AUG.2019 19:16:45

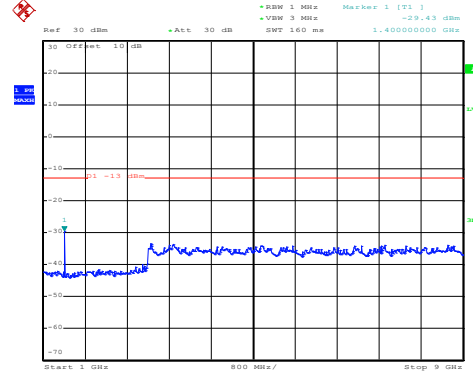
1GHz~25GHz

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



Date: 14.AUG.2019 16:59:43

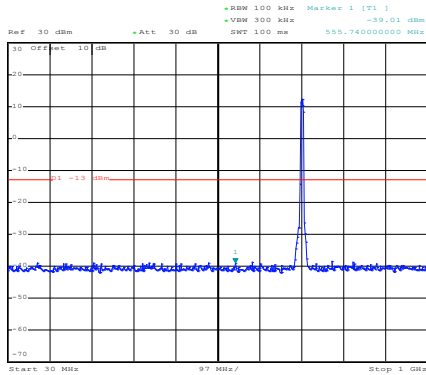
30MHz~1GHz



Date: 15.AUG.2019 19:13:58

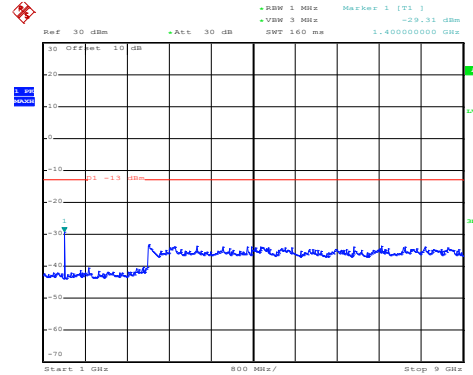
1GHz~25GHz

## Middle channel



Date: 15.AUG.2019 17:52:48

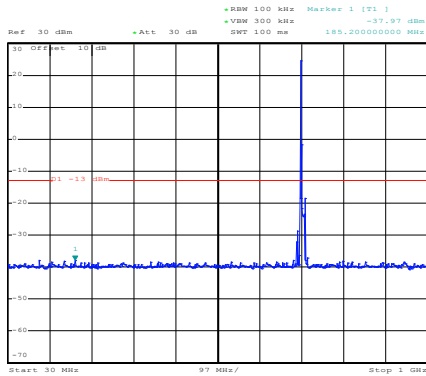
30MHz~1GHz



Date: 15.AUG.2019 19:13:30

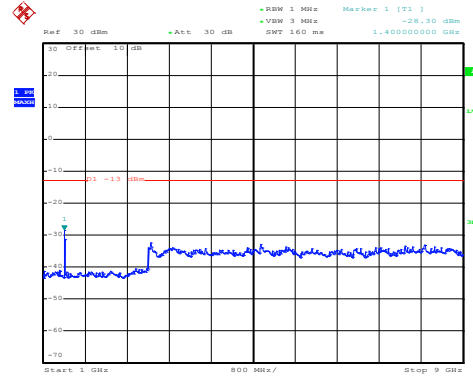
1GHz~25GHz

## High channel



Date: 14.AUG.2019 16:57:38

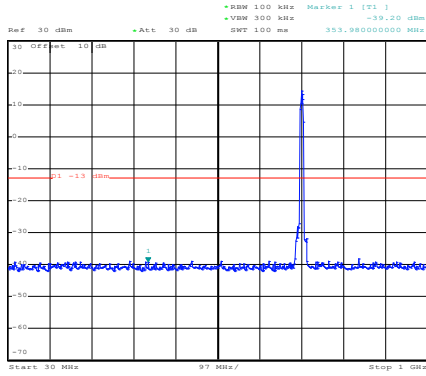
30MHz~1GHz



Date: 15.AUG.2019 19:14:58

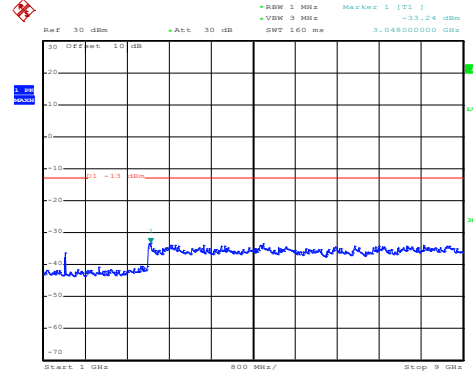
1GHz~25GHz

LTE Band 17: QPSK & RB Size 50  
 BW: 10MHz  
 Lowest channel



Date: 14.AUG.2019 16:59:07

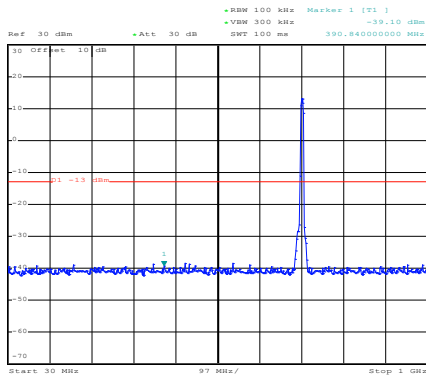
30MHz~1GHz



Date: 15.AUG.2019 19:14:14

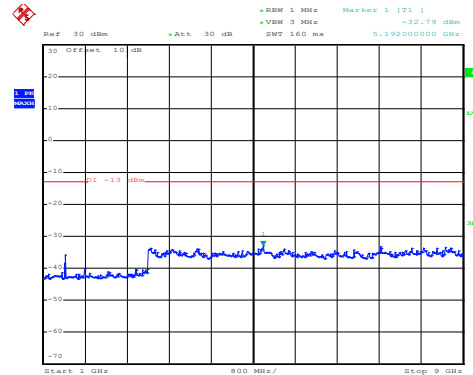
1GHz~25GHz

Middle channel



Date: 15.AUG.2019 17:53:10

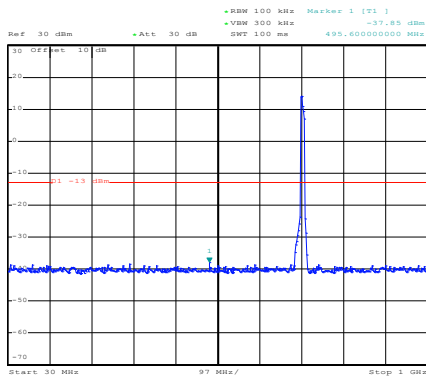
30MHz~1GHz



Date: 15.AUG.2019 19:13:14

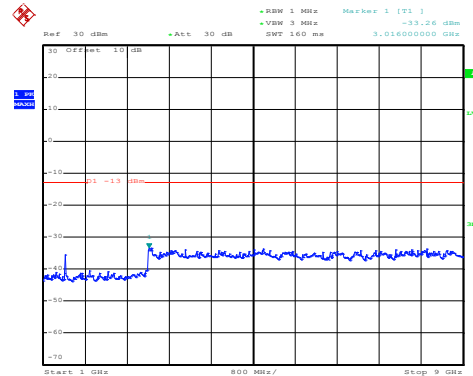
1GHz~25GHz

High channel



Date: 14.AUG.2019 16:58:29

30MHz~1GHz

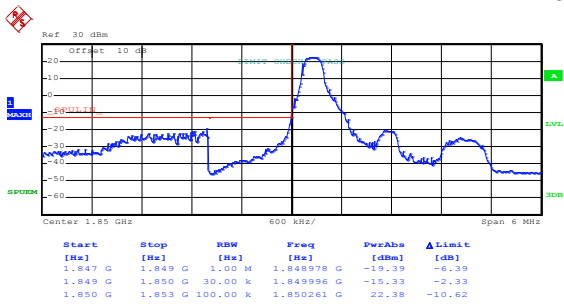


Date: 15.AUG.2019 19:16:37

1GHz~25GHz

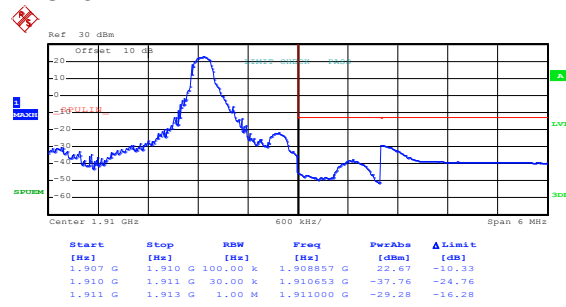
**Band edge emission:**  
**LTE Band 2 part:**

LTE Band 2, BW: 1.4MHz  
 16QAM & RB Size 1



Date: 16.AUG.2019 08:56:22

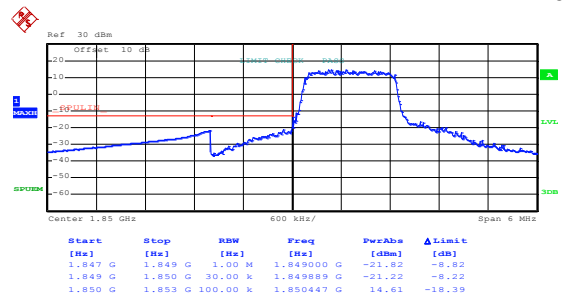
Lowest channel



Date: 16.AUG.2019 08:58:32

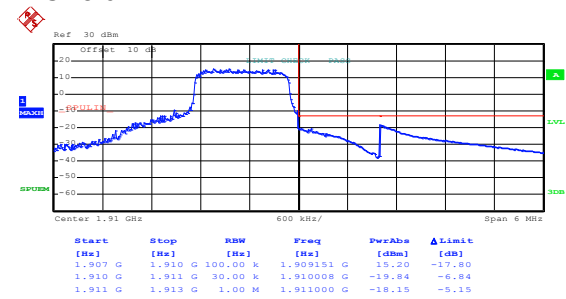
Highest channel

16QAM & RB Size 6



Date: 16.AUG.2019 08:57:10

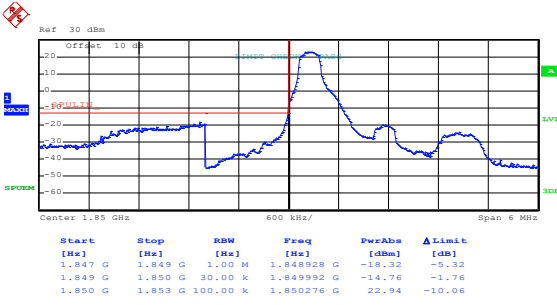
Lowest channel



Date: 16.AUG.2019 08:58:12

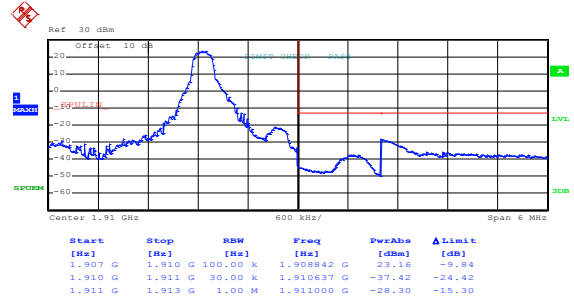
Highest channel

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



Date: 16.AUG.2019 08:56:11

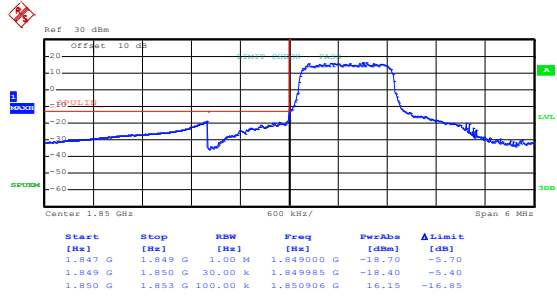
Lowest channel



Date: 16.AUG.2019 08:58:25

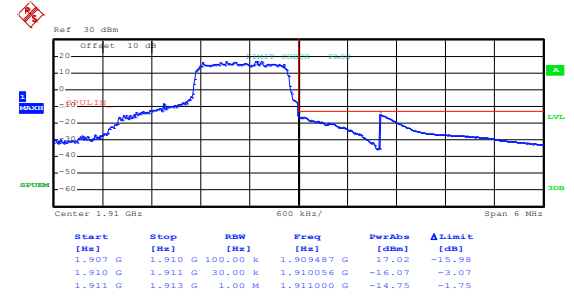
Highest channel

## QPSK & RB Size 6



Date: 16.AUG.2019 08:57:01

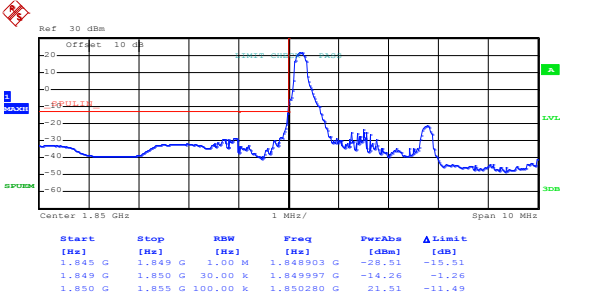
Lowest channel



Date: 16.AUG.2019 08:58:05

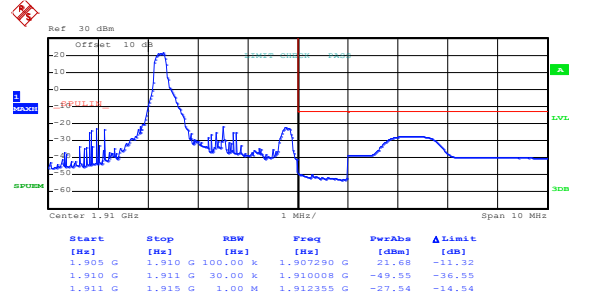
Highest channel

## LTE Band 2, BW: 3MHz 16QAM & RB Size 1



Date: 16.AUG.2019 09:06:13

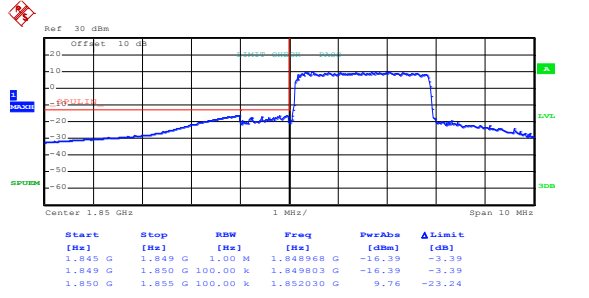
Lowest channel



Date: 16.AUG.2019 09:03:06

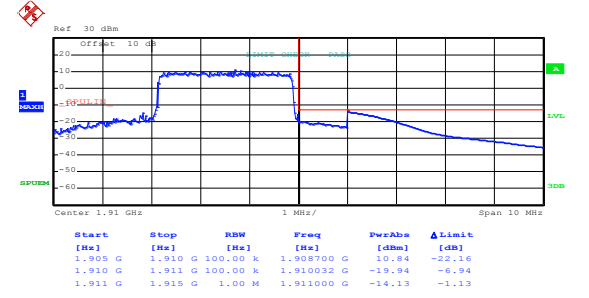
Highest channel

## 16QAM & RB Size 15



Date: 16.AUG.2019 09:05:45

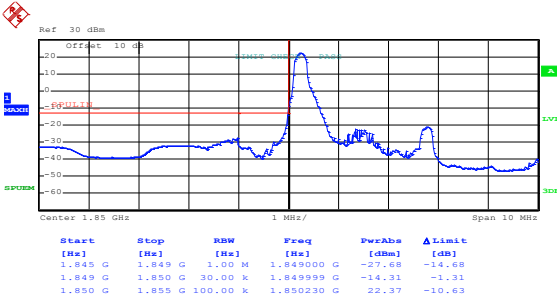
Lowest channel



Date: 16.AUG.2019 09:04:39

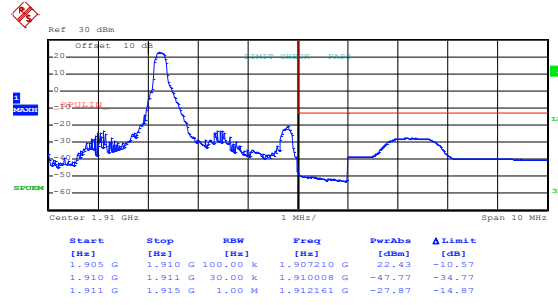
Highest channel

## LTE Band 2, BW: 3MHz QPSK & RB Size 1



Date: 16.AUG.2019 09:06:06

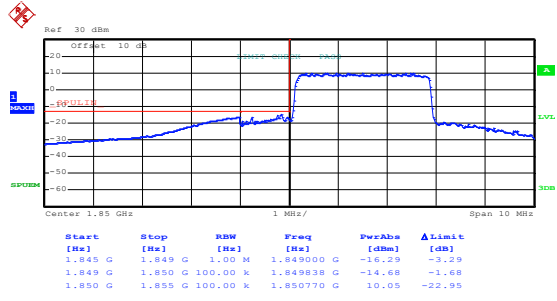
Lowest channel



Date: 16.AUG.2019 09:02:53

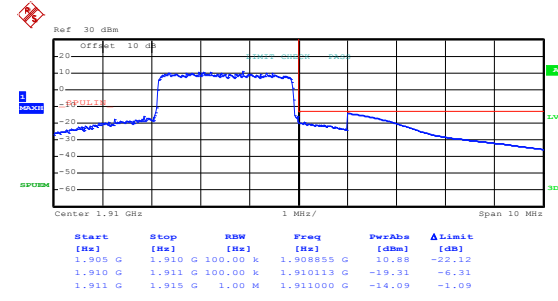
Highest channel

## QPSK & RB Size 15



Date: 16.AUG.2019 09:05:39

Lowest channel

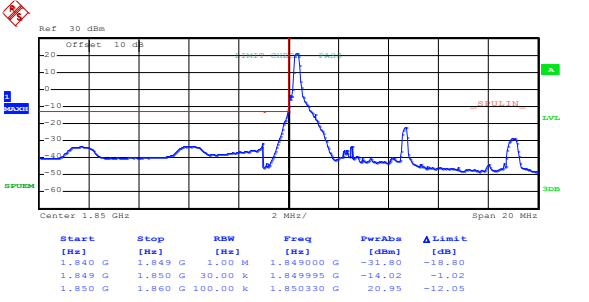


Date: 16.AUG.2019 09:04:24

Highest channel

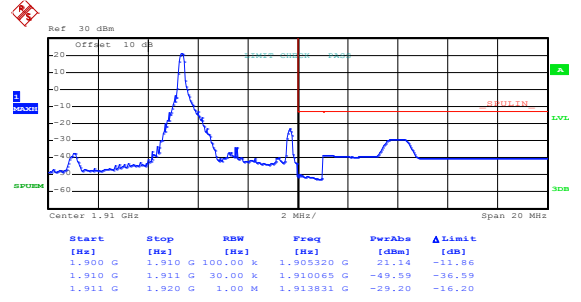


## LTE Band 2, BW: 5MHz 16QAM & RB Size 1



Date: 16.AUG.2019 09:08:51

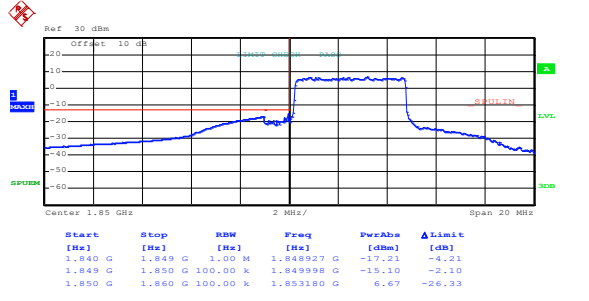
Lowest channel



Date: 16.AUG.2019 09:10:43

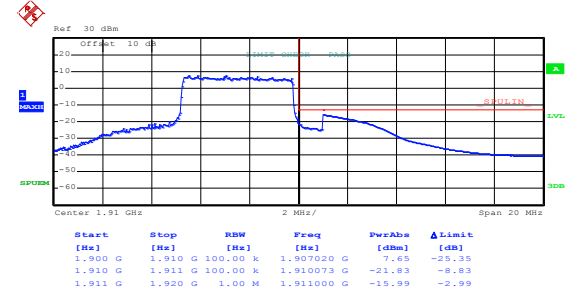
Highest channel

## 16QAM & RB Size 25



Date: 16.AUG.2019 09:09:28

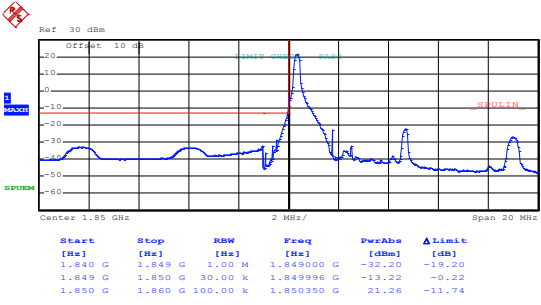
Lowest channel



Date: 16.AUG.2019 09:10:15

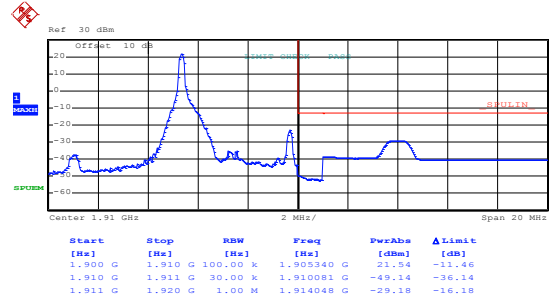
Highest channel

## LTE Band 2, BW: 5MHz QPSK & RB Size 1



Date: 16.AUG.2019 09:08:45

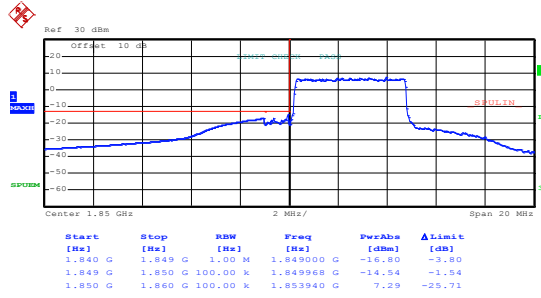
Lowest channel



Date: 16.AUG.2019 09:10:35

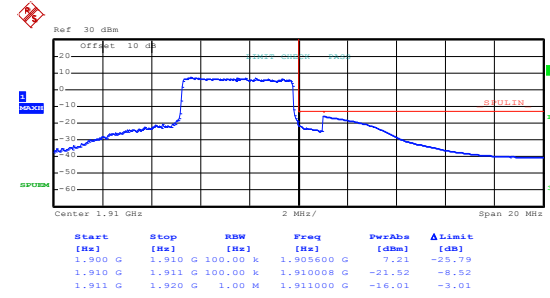
Highest channel

## QPSK & RB Size 25



Date: 16.AUG.2019 09:09:24

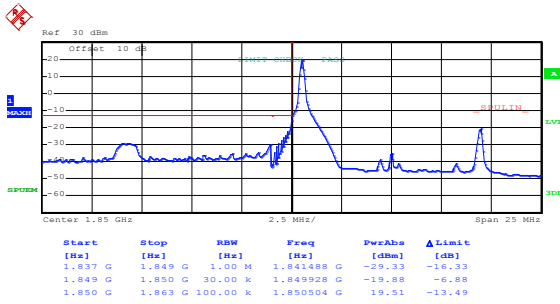
Lowest channel



Date: 16.AUG.2019 09:10:07

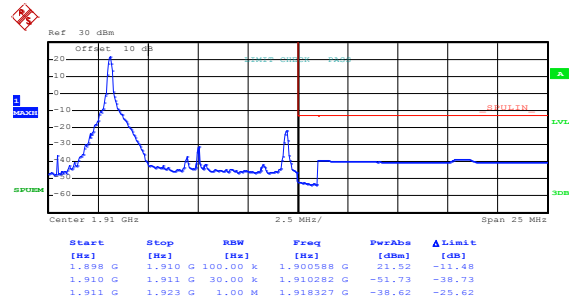
Highest channel

## LTE Band 2, BW: 10MHz 16QAM & RB Size 1



Date: 16.AUG.2019 09:14:45

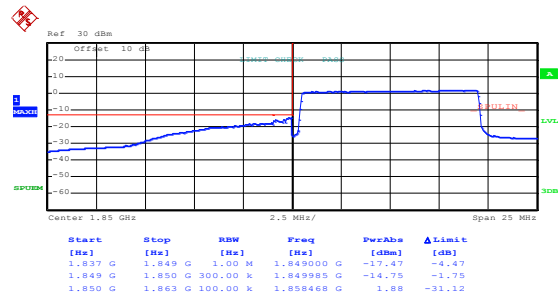
Lowest channel



Date: 16.AUG.2019 09:11:34

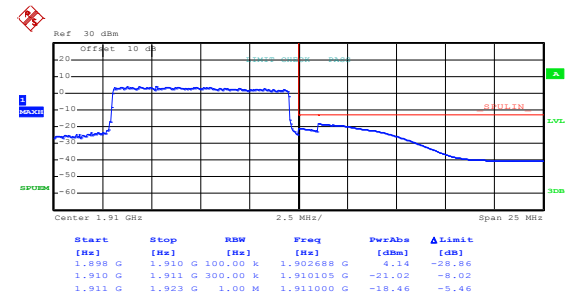
Highest channel

## 16QAM & RB Size 50



Date: 16.AUG.2019 09:14:07

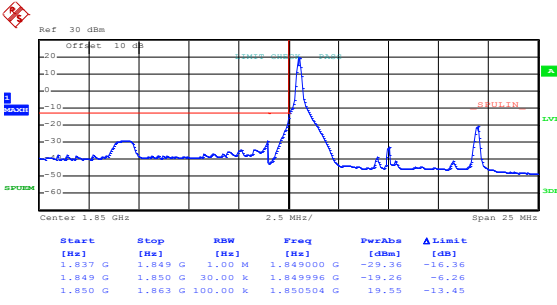
Lowest channel



Date: 16.AUG.2019 09:12:08

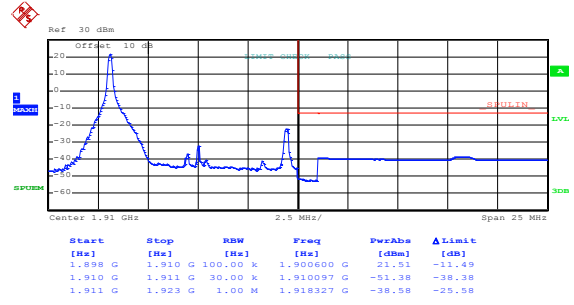
Highest channel

## LTE Band 2, BW: 10MHz QPSK & RB Size 1



Date: 16.AUG.2019 09:14:36

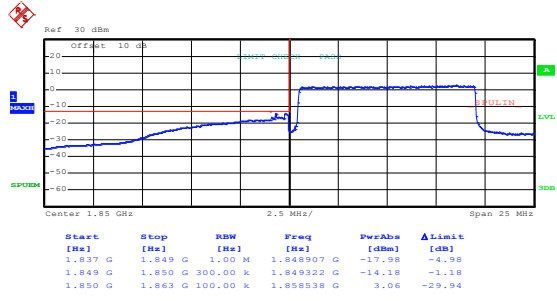
Lowest channel



Date: 16.AUG.2019 09:11:27

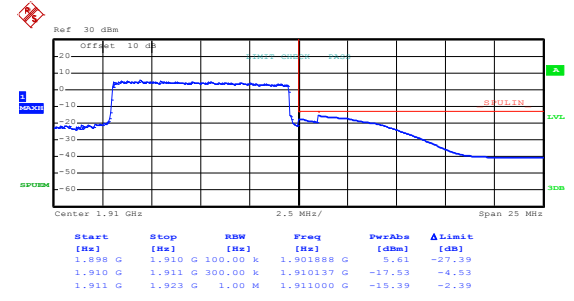
Highest channel

## QPSK & RB Size 50



Date: 16.AUG.2019 09:13:23

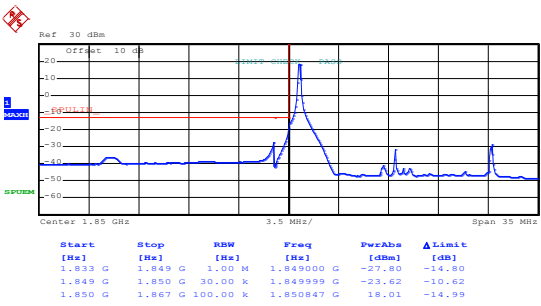
Lowest channel



Date: 16.AUG.2019 09:11:59

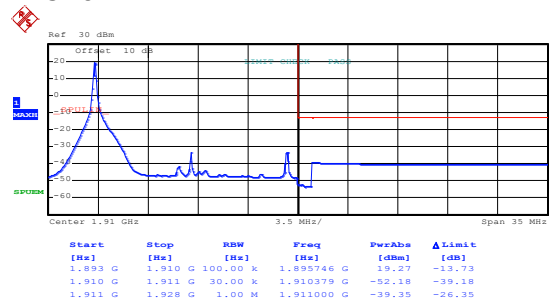
Highest channel

## LTE Band 2, BW: 15MHz 16QAM & RB Size 1



Date: 16.AUG.2019 09:15:33

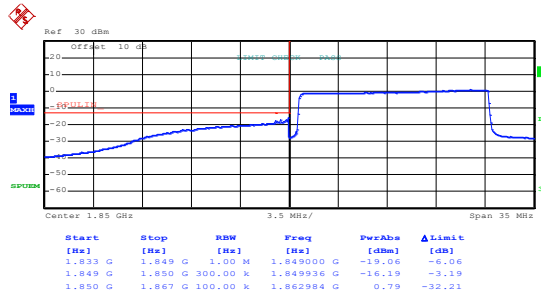
Lowest channel



Date: 16.AUG.2019 09:17:31

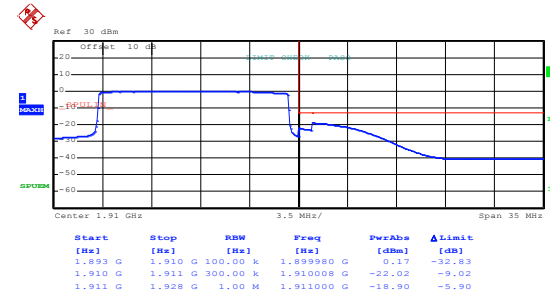
Highest channel

## 16QAM & RB Size 75



Date: 16.AUG.2019 09:16:09

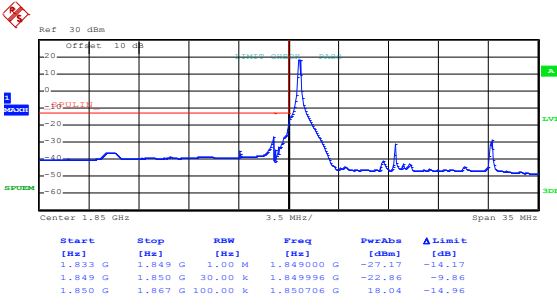
Lowest channel



Date: 16.AUG.2019 09:16:53

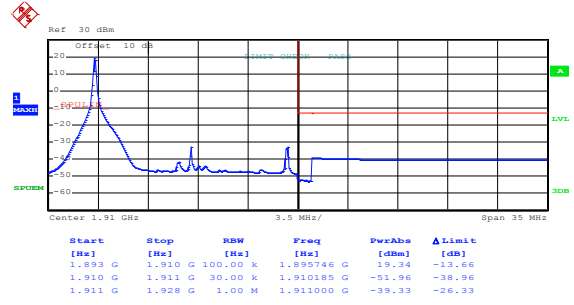
Highest channel

## LTE Band 2, BW: 15MHz QPSK & RB Size 1



Date: 16.AUG.2019 09:15:26

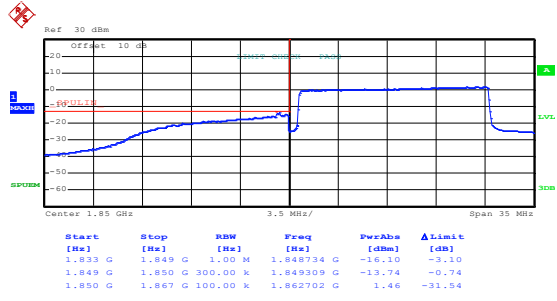
Lowest channel



Date: 16.AUG.2019 09:17:22

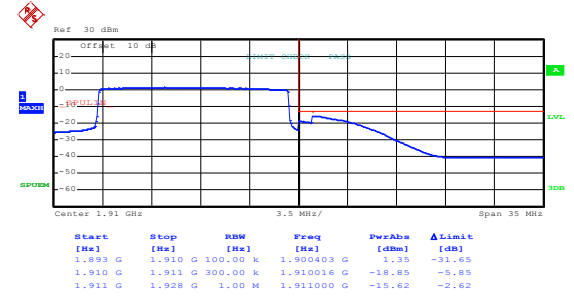
Highest channel

## QPSK & RB Size 75



Date: 16.AUG.2019 09:16:01

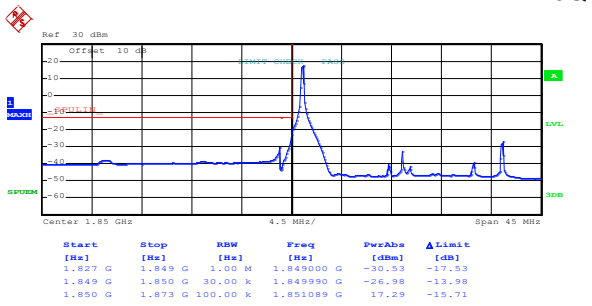
Lowest channel



Date: 16.AUG.2019 09:16:37

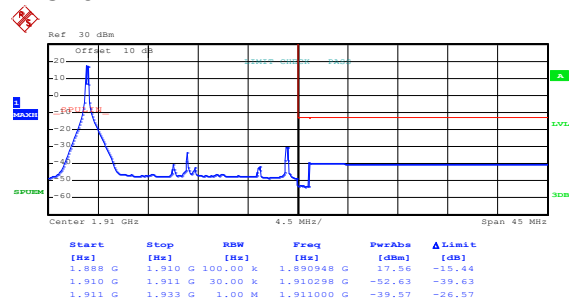
Highest channel

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



Date: 16.AUG.2019 09:20:06

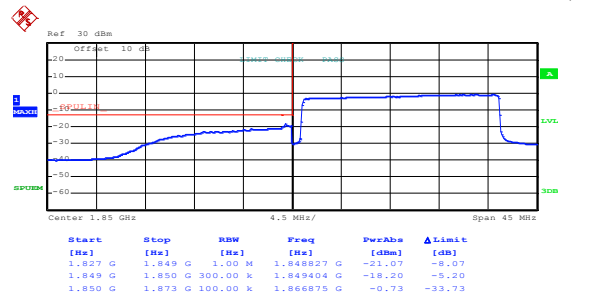
Lowest channel



Date: 16.AUG.2019 09:18:26

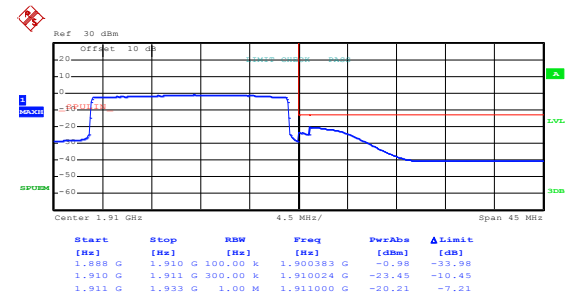
Highest channel

## 16QAM & RB Size 100



Date: 16.AUG.2019 09:19:33

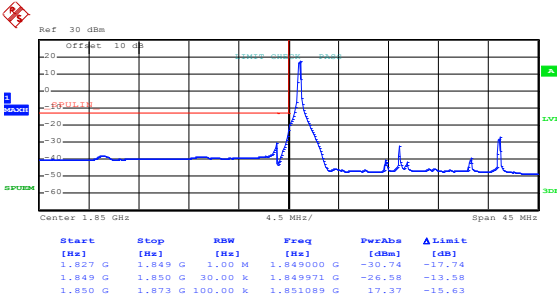
Lowest channel



Date: 16.AUG.2019 09:19:03

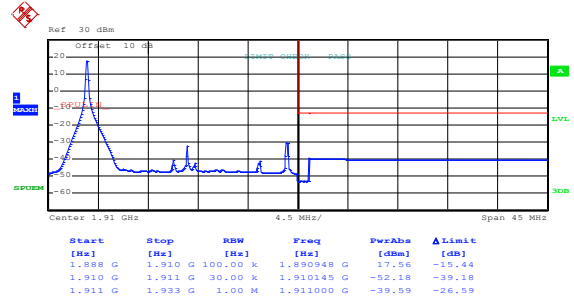
Highest channel

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



Date: 16.AUG.2019 09:19:58

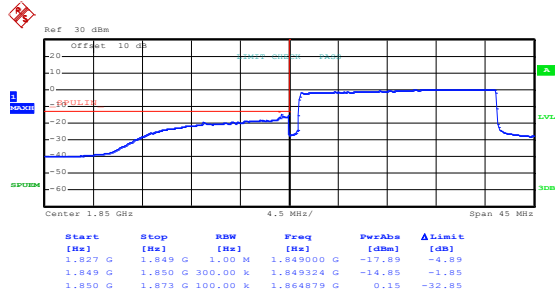
Lowest channel



Date: 16.AUG.2019 09:18:16

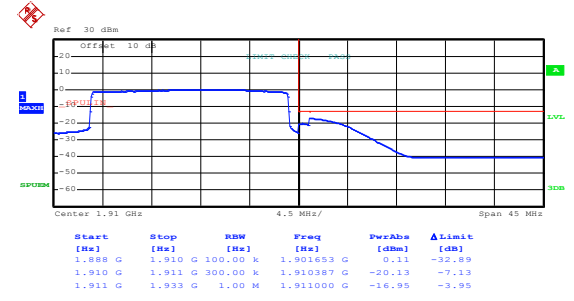
Highest channel

## QPSK & RB Size 100



Date: 16.AUG.2019 09:19:25

Lowest channel



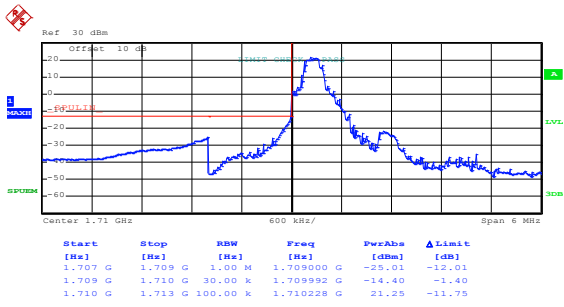
Date: 16.AUG.2019 09:18:52

Highest channel



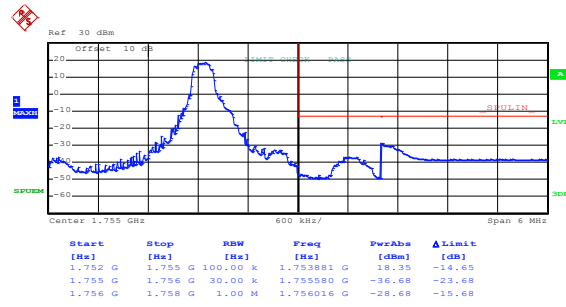
LTE Band 4 part:

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



Date: 16.AUG.2019 09:25:02

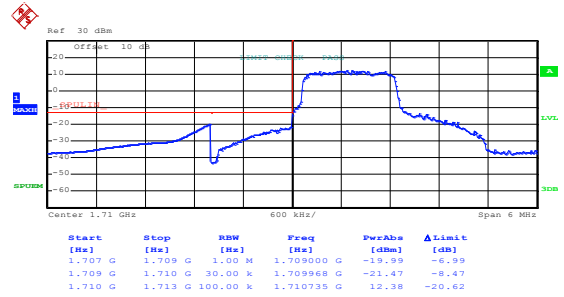
Lowest channel



Date: 16.AUG.2019 09:28:03

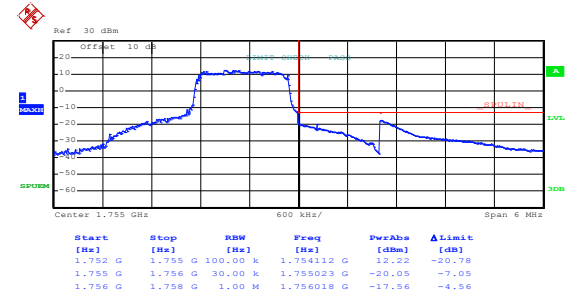
Highest channel

16QAM & RB Size 6



Date: 16.AUG.2019 09:26:44

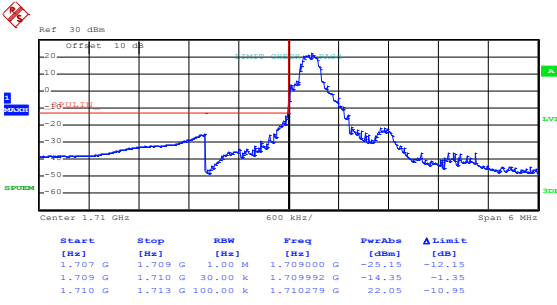
Lowest channel



Date: 16.AUG.2019 09:27:28

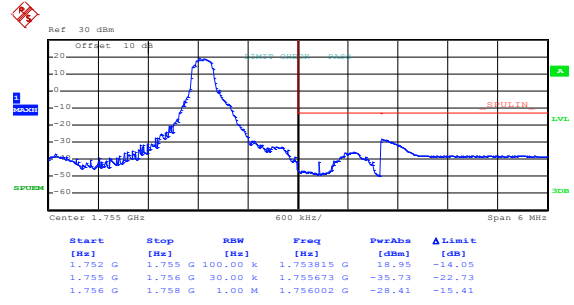
Highest channel

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



Date: 16.AUG.2019 09:24:38

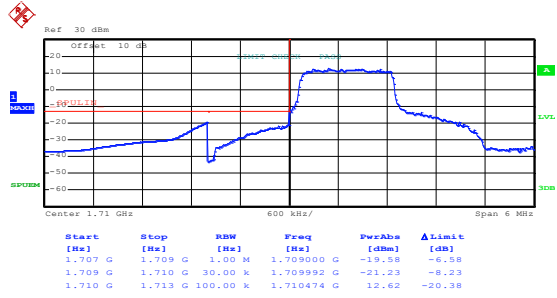
Lowest channel



Date: 16.AUG.2019 09:27:57

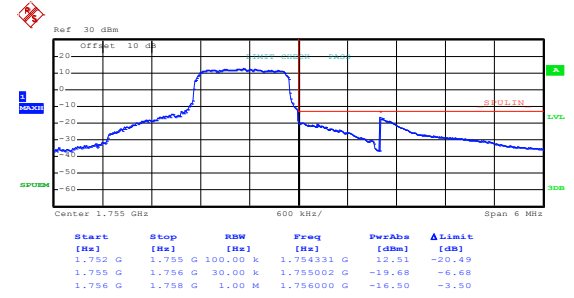
Highest channel

## QPSK & RB Size 6



Date: 16.AUG.2019 09:26:31

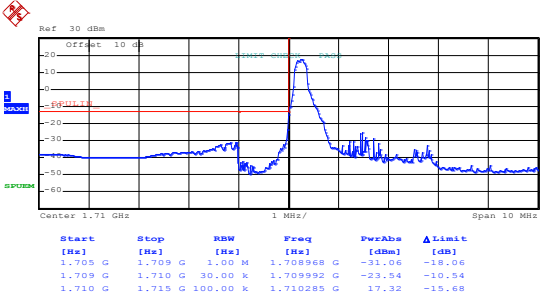
Lowest channel



Date: 16.AUG.2019 09:27:18

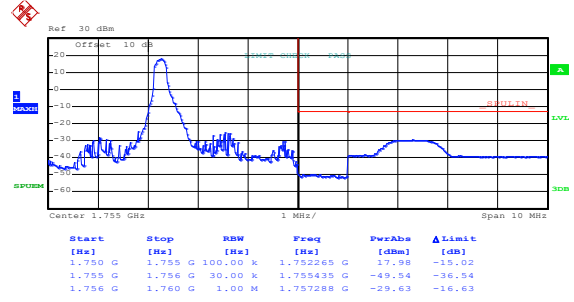
Highest channel

## LTE Band 4, BW: 3MHz 16QAM & RB Size 1



Date: 16.AUG.2019 09:32:04

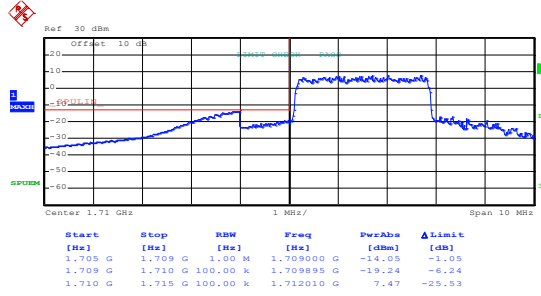
Lowest channel



Date: 16.AUG.2019 09:28:59

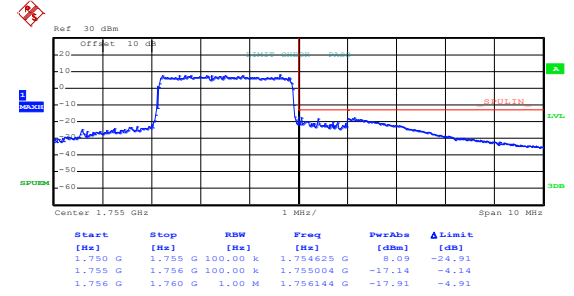
Highest channel

## 16QAM & RB Size 15



Date: 16.AUG.2019 09:31:35

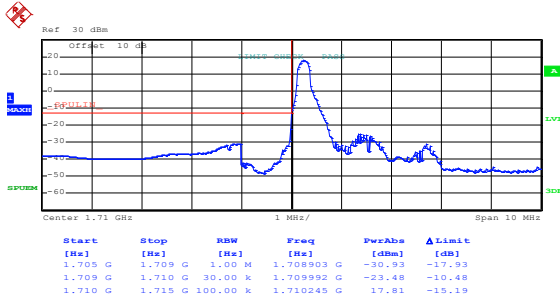
Lowest channel



Date: 16.AUG.2019 09:29:56

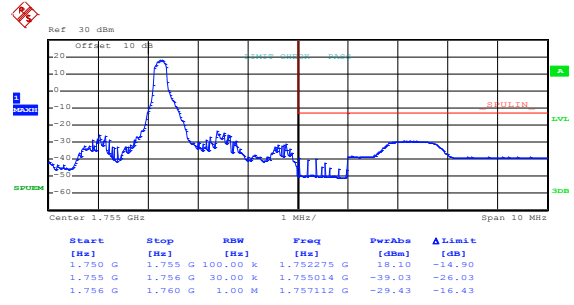
Highest channel

## LTE Band 4, BW: 3MHz QPSK & RB Size 1



Date: 16.AUG.2019 09:31:56

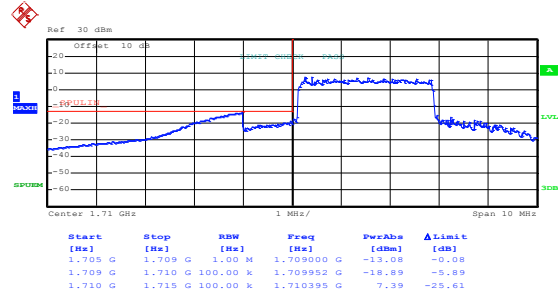
Lowest channel



Date: 16.AUG.2019 09:28:53

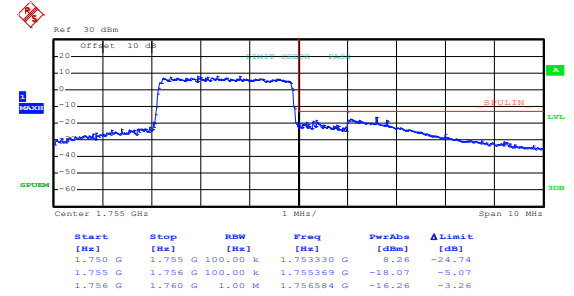
Highest channel

## QPSK & RB Size 15



Date: 16.AUG.2019 09:30:49

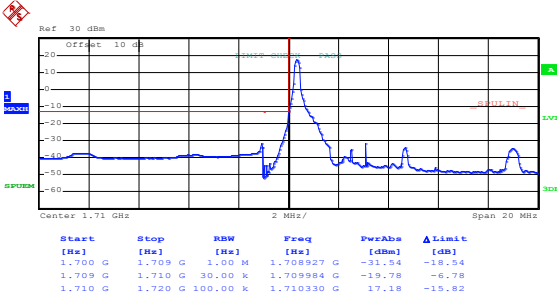
Lowest channel



Date: 16.AUG.2019 09:29:47

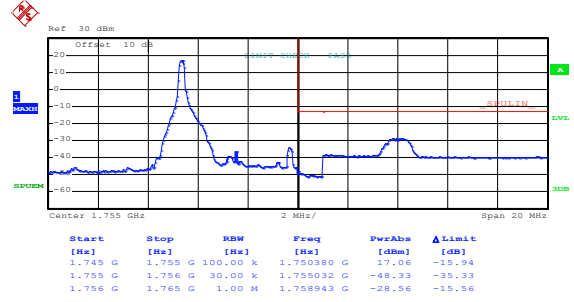
Highest channel

## LTE Band 4, BW: 5MHz 16QAM & RB Size 1



Date: 16.AUG.2019 09:33:08

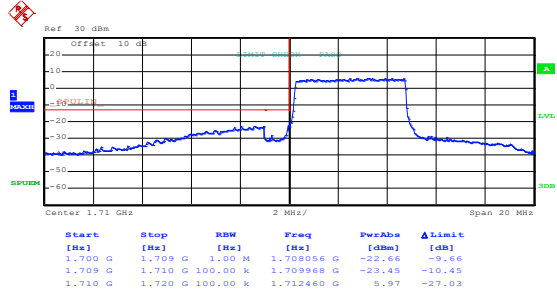
Lowest channel



Date: 16.AUG.2019 09:35:00

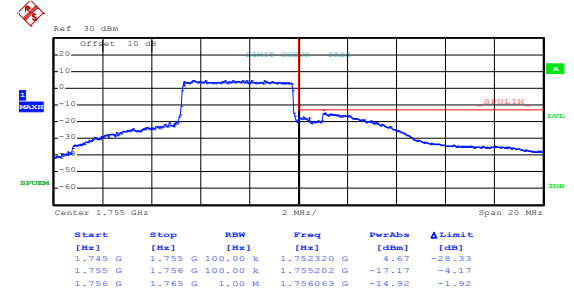
Highest channel

## 16QAM & RB Size 25



Date: 28.AUG.2019 16:54:50

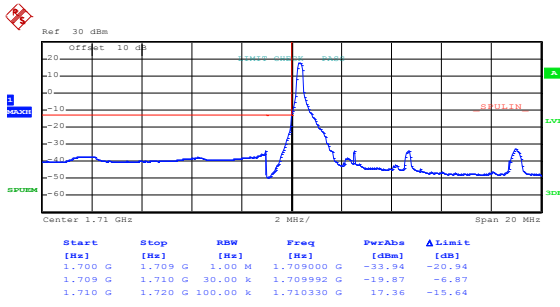
Lowest channel



Date: 16.AUG.2019 09:34:34

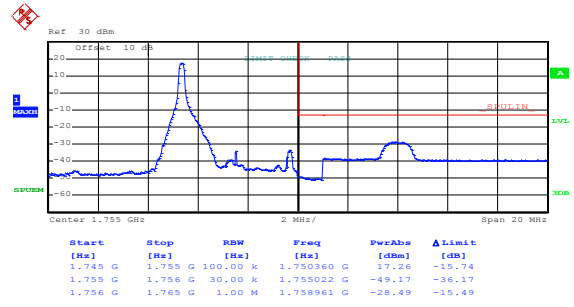
Highest channel

## LTE Band 4, BW: 5MHz QPSK & RB Size 1



Date: 16.AUG.2019 09:33:01

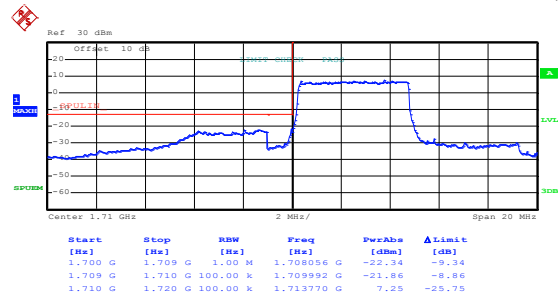
Lowest channel



Date: 16.AUG.2019 09:34:55

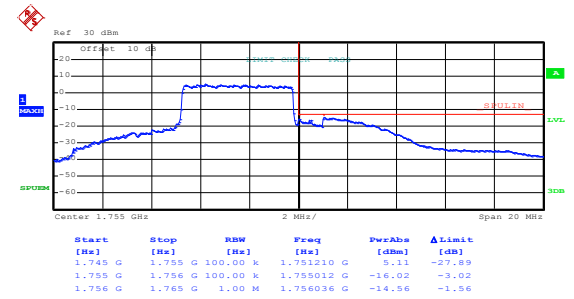
Highest channel

## QPSK & RB Size 25



Date: 28.AUG.2019 16:54:43

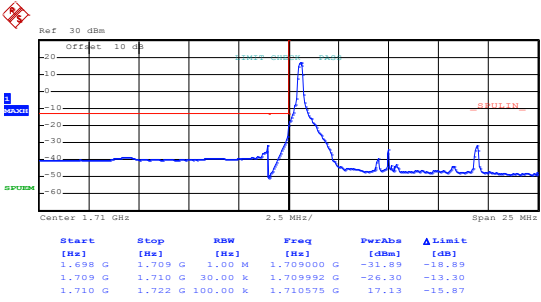
Lowest channel



Date: 16.AUG.2019 09:34:28

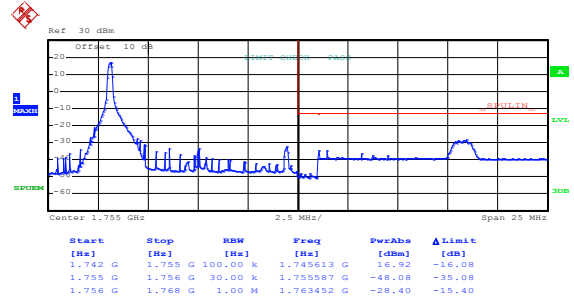
Highest channel

## LTE Band 4, BW: 10MHz 16QAM & RB Size 1



Date: 16.AUG.2019 09:38:37

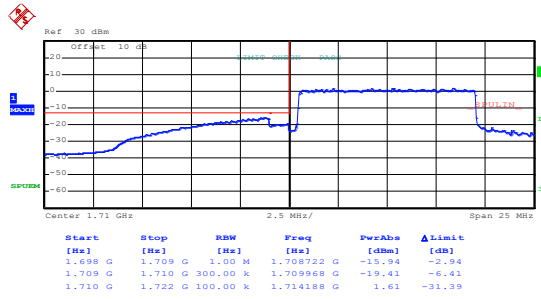
Lowest channel



Date: 16.AUG.2019 09:39:15

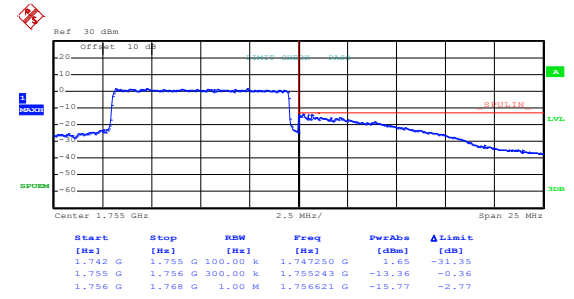
Highest channel

## 16QAM & RB Size 50



Date: 16.AUG.2019 09:38:12

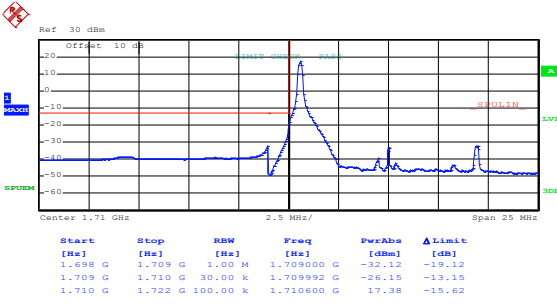
Lowest channel



Date: 16.AUG.2019 09:39:42

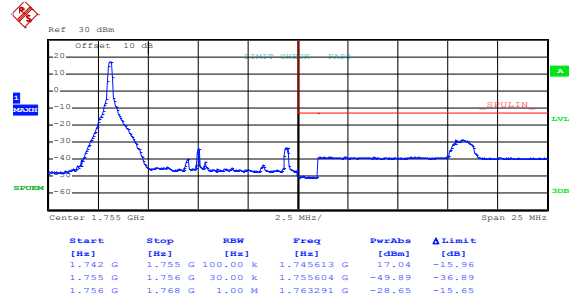
Highest channel

## LTE Band 4, BW: 10MHz QPSK & RB Size 1



Date: 16.AUG.2019 09:38:33

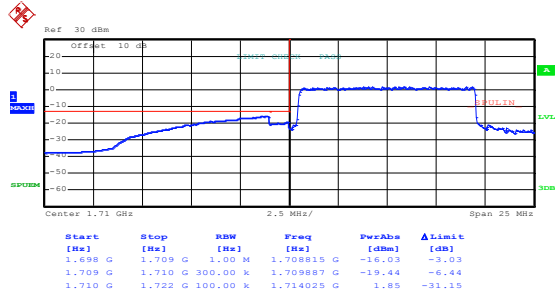
Lowest channel



Date: 16.AUG.2019 09:39:07

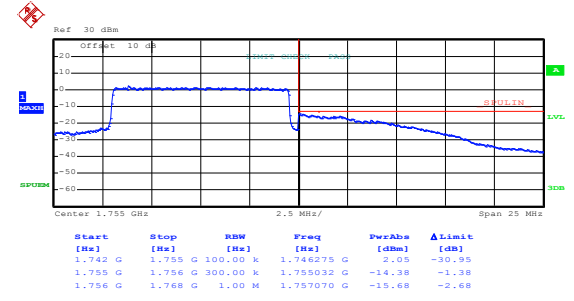
Highest channel

## QPSK & RB Size 50



Date: 16.AUG.2019 09:38:05

Lowest channel

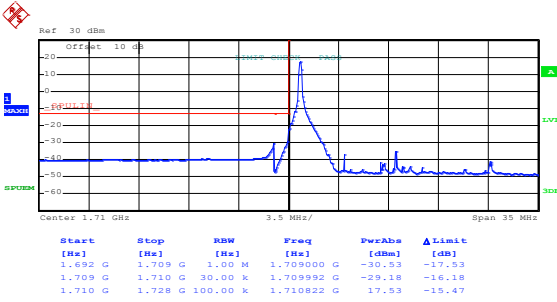


Date: 16.AUG.2019 09:39:35

Highest channel

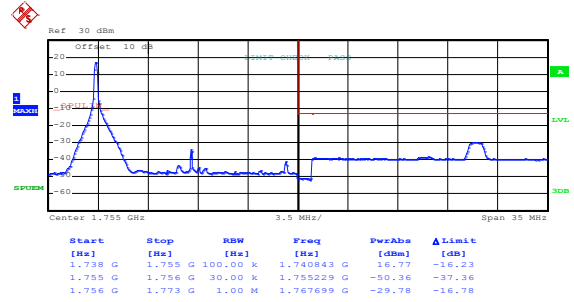


## LTE Band 4, BW: 15MHz 16QAM & RB Size 1



Date: 16.AUG.2019 09:41:49

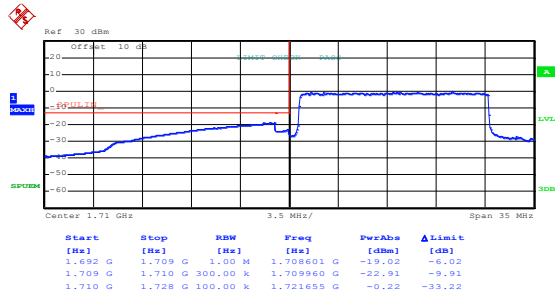
Lowest channel



Date: 16.AUG.2019 09:41:13

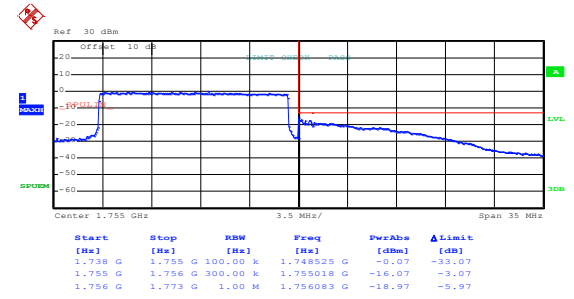
Highest channel

## 16QAM & RB Size 75



Date: 16.AUG.2019 09:42:15

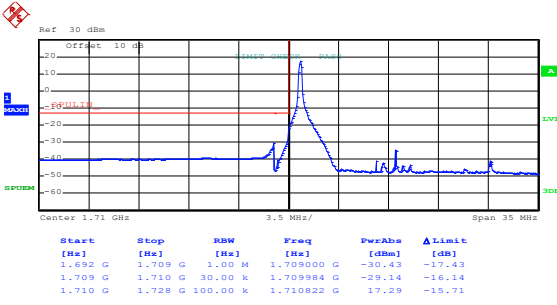
Lowest channel



Date: 16.AUG.2019 09:40:48

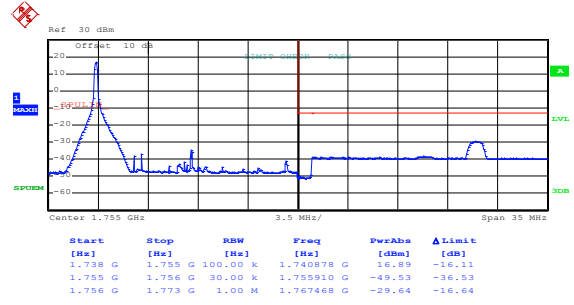
Highest channel

## LTE Band 4, BW: 15MHz QPSK & RB Size 1



Date: 16.AUG.2019 09:41:43

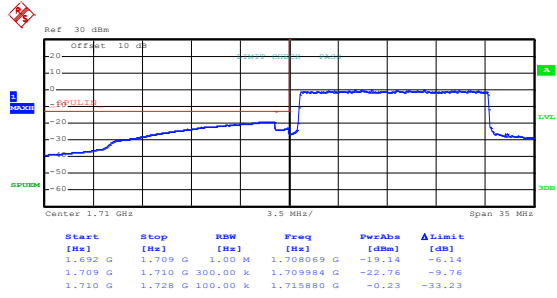
Lowest channel



Date: 16.AUG.2019 09:41:07

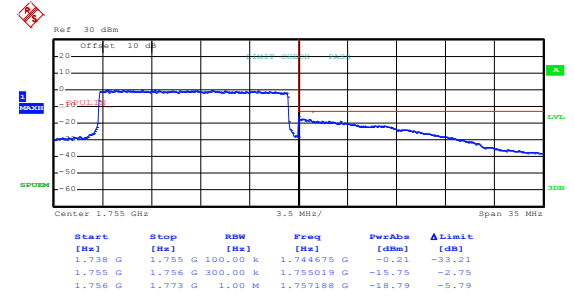
Highest channel

## QPSK & RB Size 75



Date: 16.AUG.2019 09:42:09

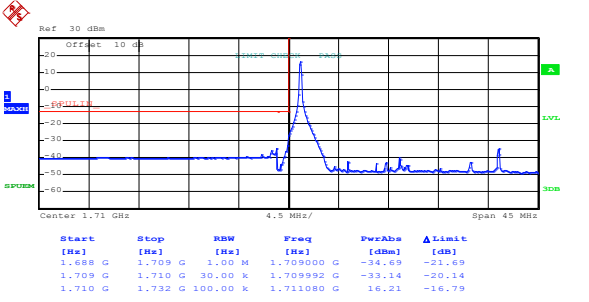
Lowest channel



Date: 16.AUG.2019 09:40:41

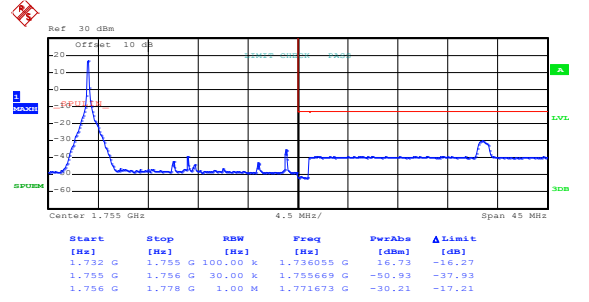
Highest channel

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



Date: 16.AUG.2019 09:43:36

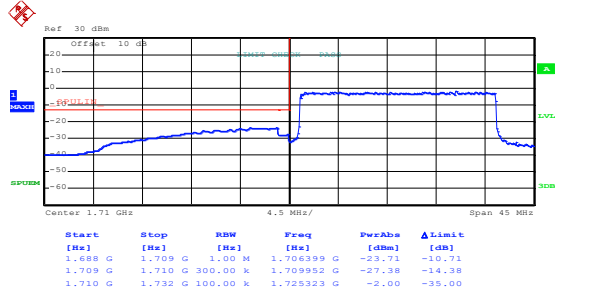
Lowest channel



Date: 16.AUG.2019 09:44:00

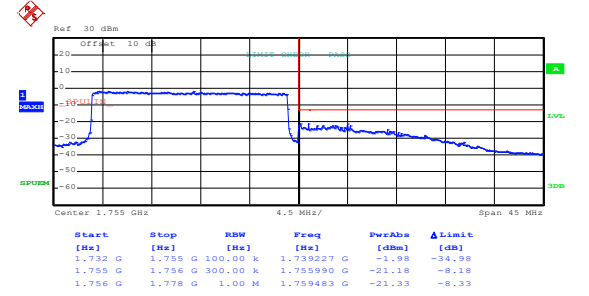
Highest channel

## 16QAM & RB Size 100



Date: 16.AUG.2019 09:43:08

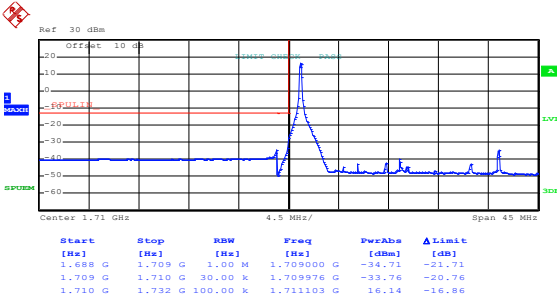
Lowest channel



Date: 16.AUG.2019 09:44:28

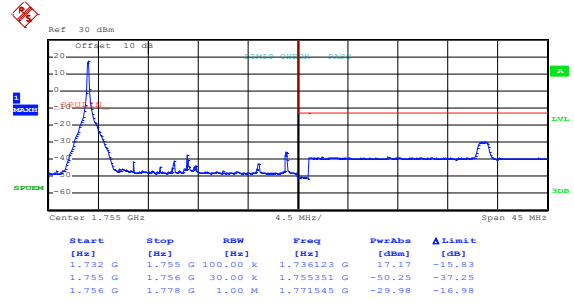
Highest channel

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



Date: 16.AUG.2019 09:43:27

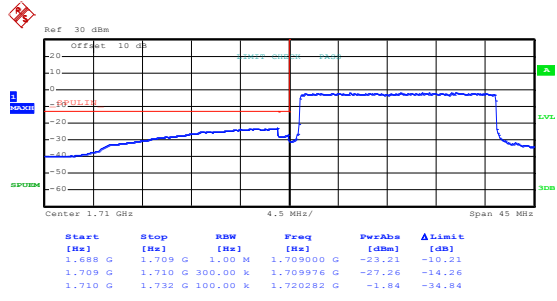
Lowest channel



Date: 16.AUG.2019 09:43:56

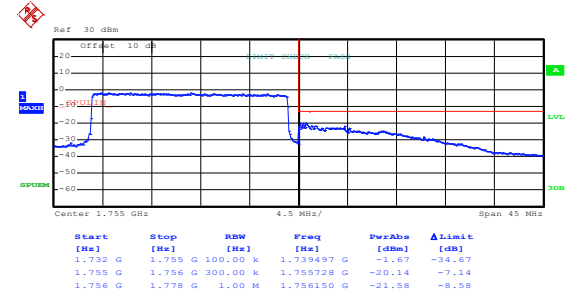
Highest channel

## QPSK & RB Size 100



Date: 16.AUG.2019 09:43:03

Lowest channel

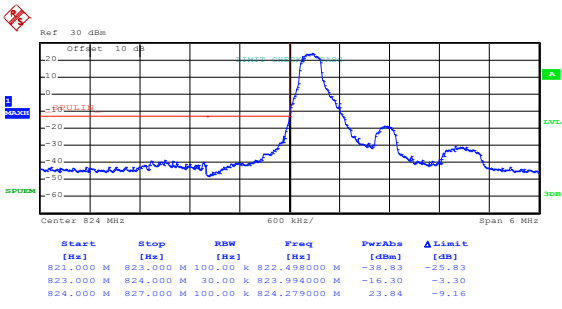


Date: 16.AUG.2019 09:44:22

Highest channel

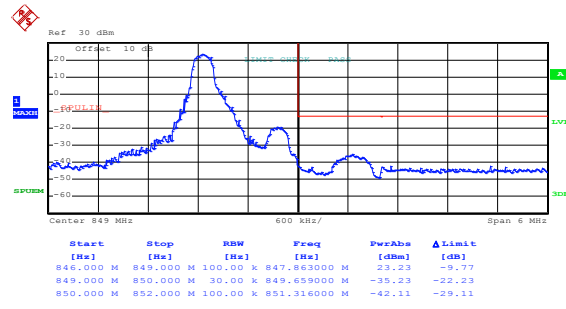
LTE Band 5 part:

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



Date: 16.AUG.2019 09:45:46

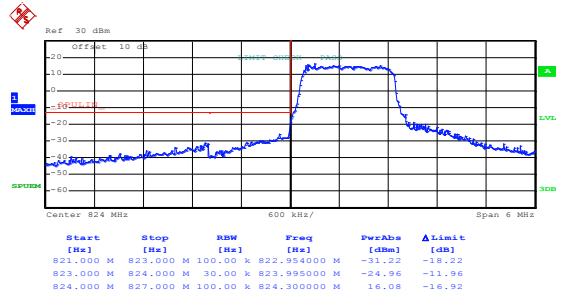
Lowest channel



Date: 16.AUG.2019 09:46:52

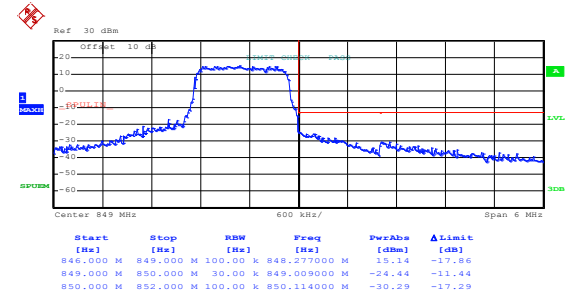
Highest channel

16QAM & RB Size 6



Date: 16.AUG.2019 09:46:03

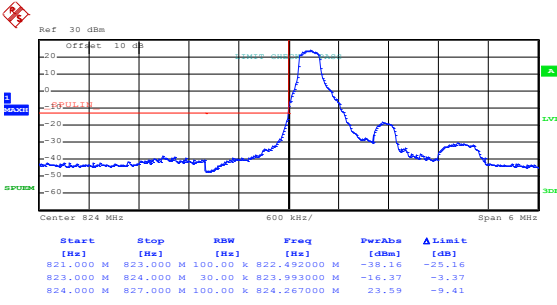
Lowest channel



Date: 16.AUG.2019 09:46:34

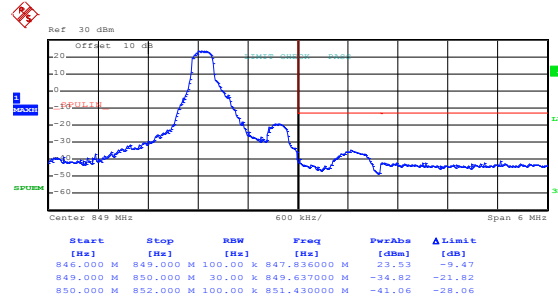
Highest channel

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



Date: 16.AUG.2019 09:45:40

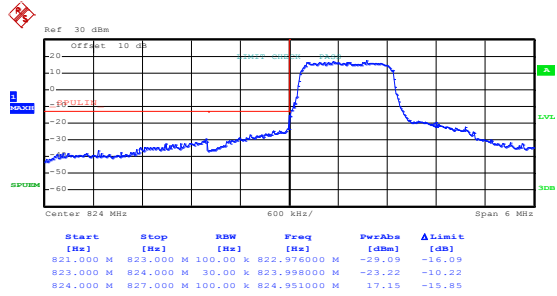
Lowest channel



Date: 16.AUG.2019 09:46:47

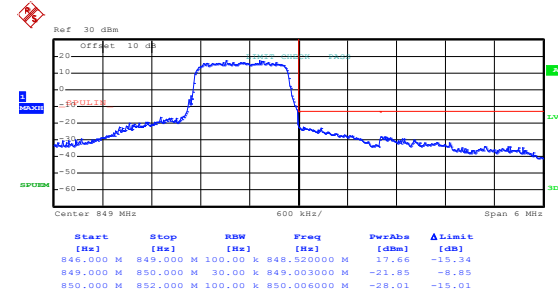
Highest channel

## QPSK & RB Size 6



Date: 16.AUG.2019 09:45:57

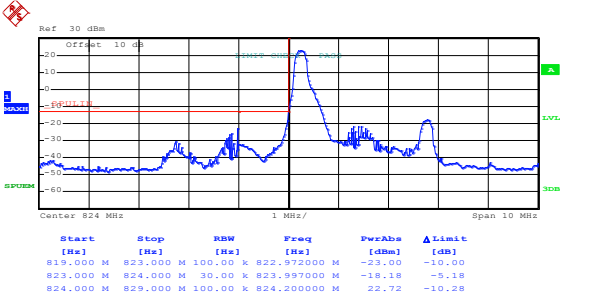
Lowest channel



Date: 16.AUG.2019 09:46:27

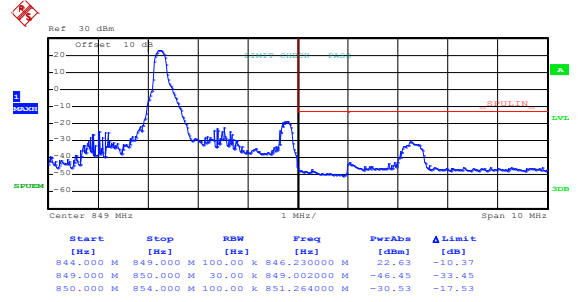
Highest channel

## LTE Band 5, BW: 3MHz 16QAM & RB Size 1



Date: 16.AUG.2019 09:49:07

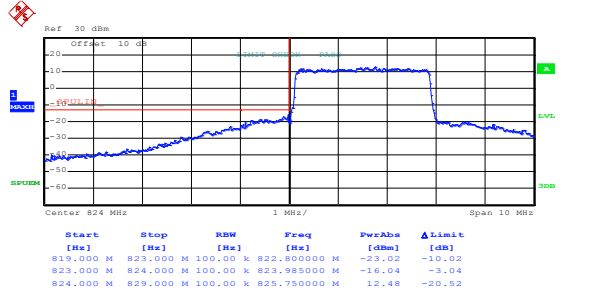
Lowest channel



Date: 16.AUG.2019 09:47:34

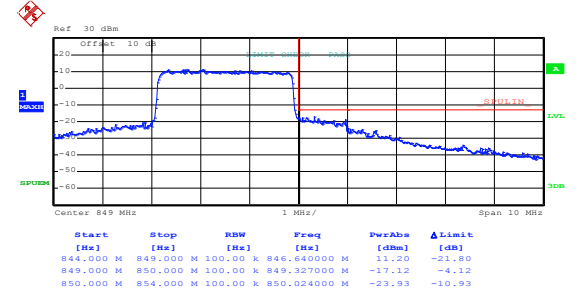
Highest channel

## 16QAM & RB Size 15



Date: 16.AUG.2019 09:48:45

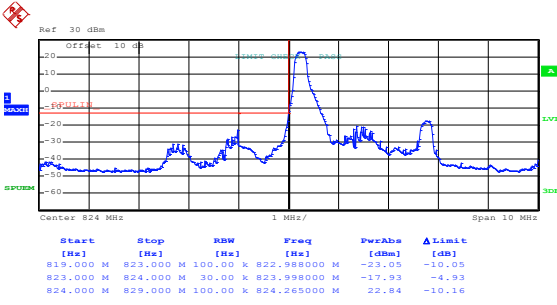
Lowest channel



Date: 16.AUG.2019 09:48:01

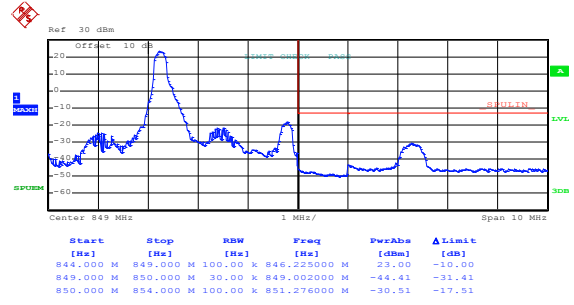
Highest channel

## LTE Band 5, BW: 3MHz QPSK & RB Size 1



Date: 16.AUG.2019 09:49:01

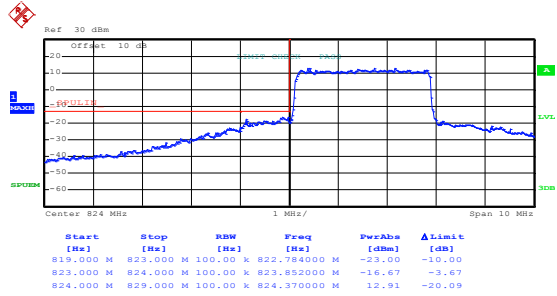
Lowest channel



Date: 16.AUG.2019 09:47:28

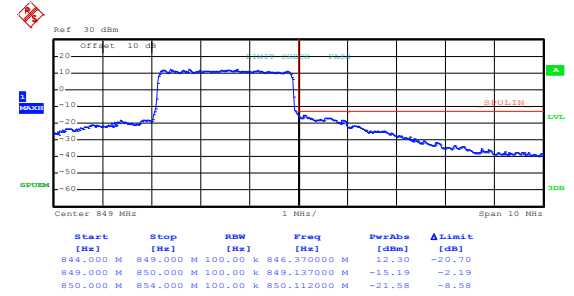
Highest channel

## QPSK & RB Size 15



Date: 16.AUG.2019 09:48:37

Lowest channel

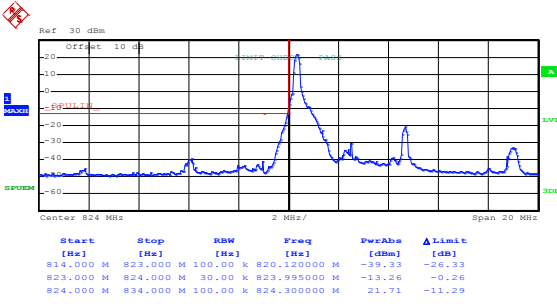


Date: 16.AUG.2019 09:47:54

Highest channel

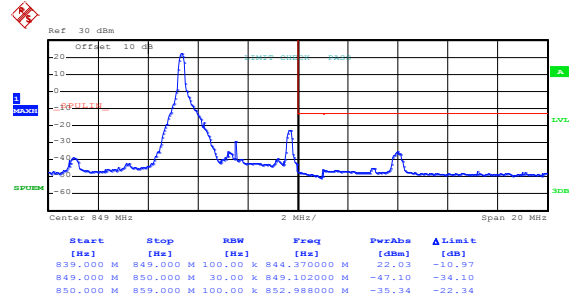


## LTE Band 5, BW: 5MHz 16QAM & RB Size 1



Date: 16.AUG.2019 09:49:48

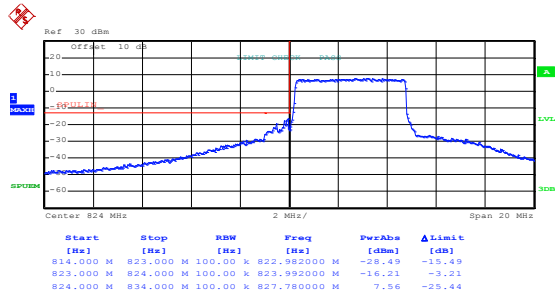
Lowest channel



Date: 16.AUG.2019 09:51:16

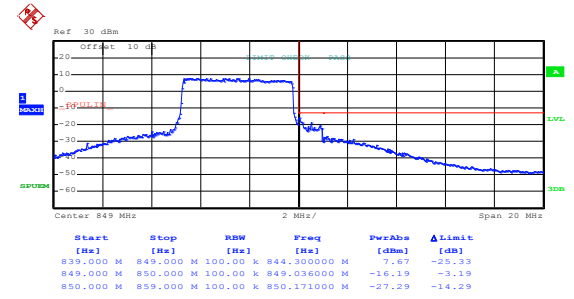
Highest channel

## 16QAM & RB Size 25



Date: 16.AUG.2019 09:50:17

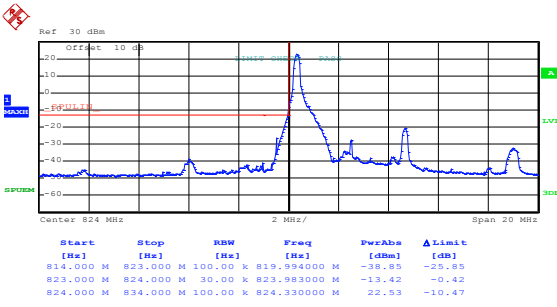
Lowest channel



Date: 16.AUG.2019 09:50:44

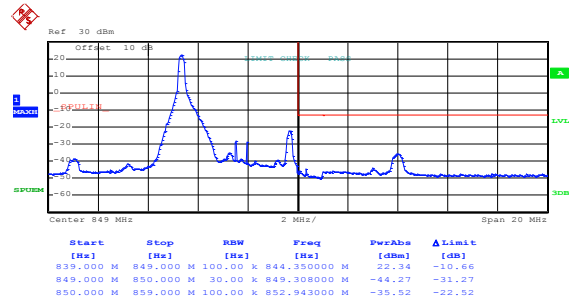
Highest channel

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



Date: 16.AUG.2019 09:49:43

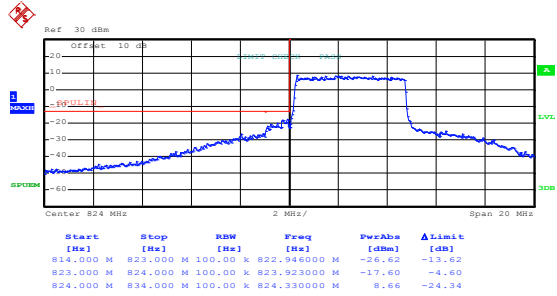
Lowest channel



Date: 16.AUG.2019 09:51:10

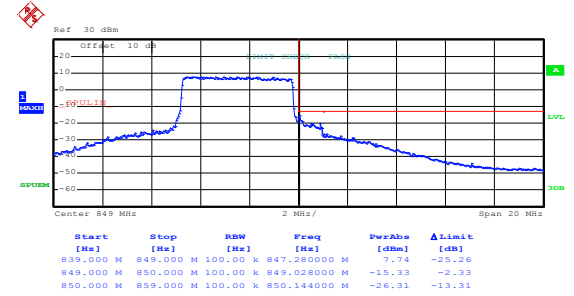
Highest channel

## QPSK & RB Size 25



Date: 16.AUG.2019 10:21:17

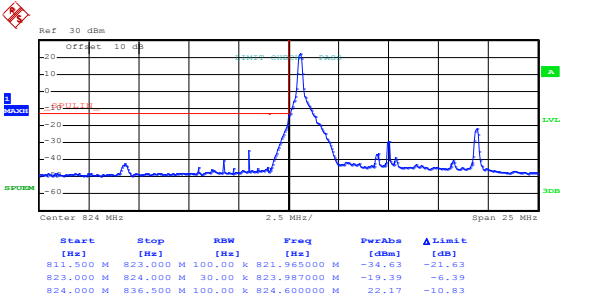
Lowest channel



Date: 16.AUG.2019 09:50:52

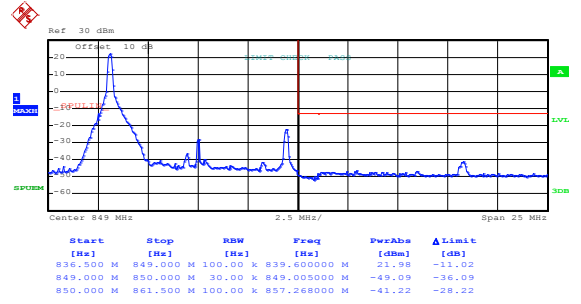
Highest channel

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



Date: 16.AUG.2019 09:53:56

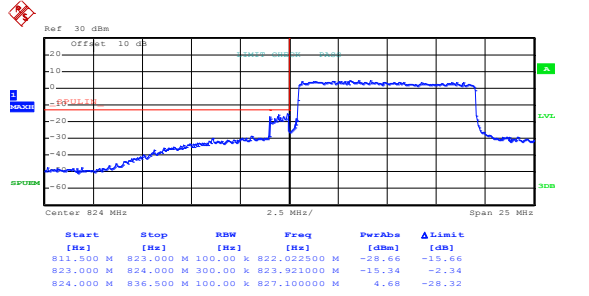
Lowest channel



Date: 16.AUG.2019 09:52:01

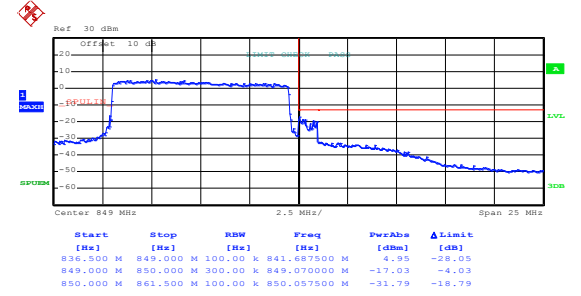
Highest channel

## 16QAM & RB Size 50



Date: 16.AUG.2019 09:53:28

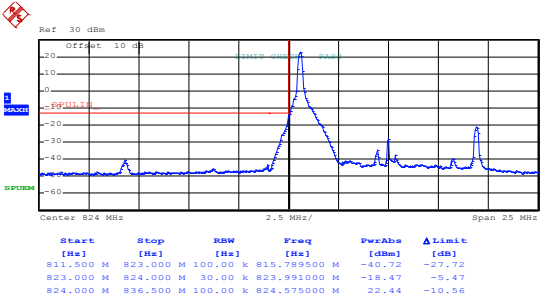
Lowest channel



Date: 16.AUG.2019 09:52:39

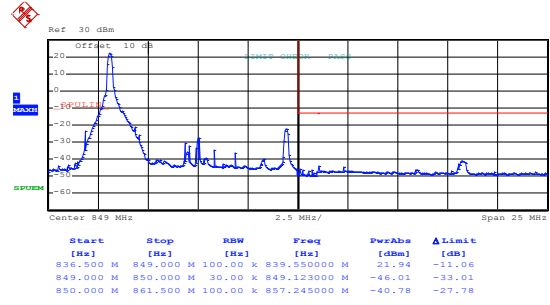
Highest channel

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



Date: 16.AUG.2019 09:53:50

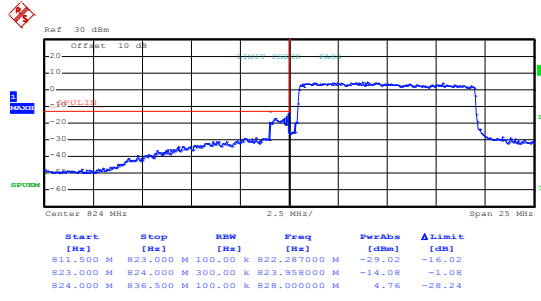
Lowest channel



Date: 16.AUG.2019 09:51:56

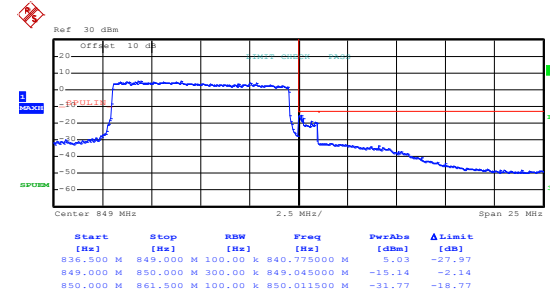
Highest channel

## QPSK & RB Size 50



Date: 16.AUG.2019 09:53:16

Lowest channel

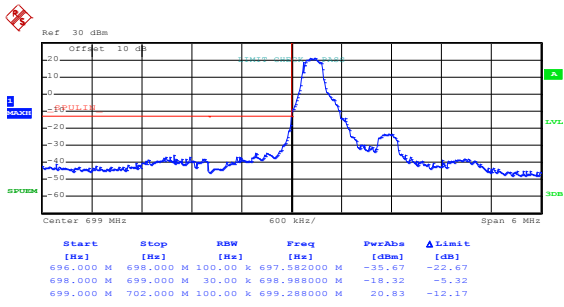


Date: 16.AUG.2019 09:52:33

Highest channel

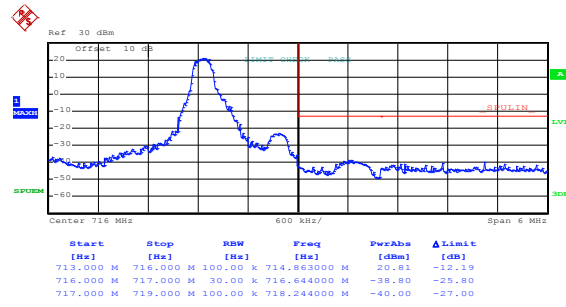
LTE band 12 part:

LTE Band 12, BW: 1.4MHz  
16QAM & RB Size 1



Date: 16.AUG.2019 09:55:42

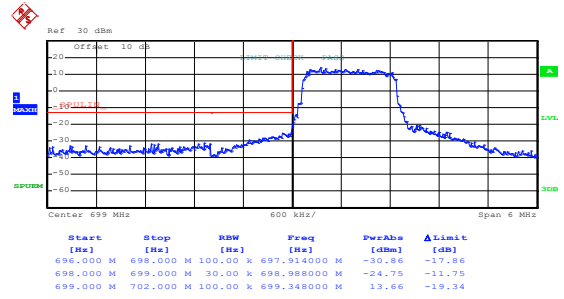
Lowest channel



Date: 16.AUG.2019 09:56:41

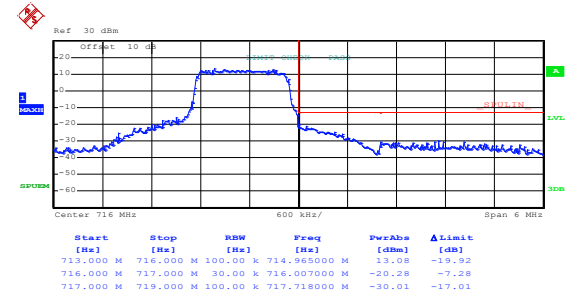
Highest channel

16QAM & RB Size 6



Date: 16.AUG.2019 09:55:58

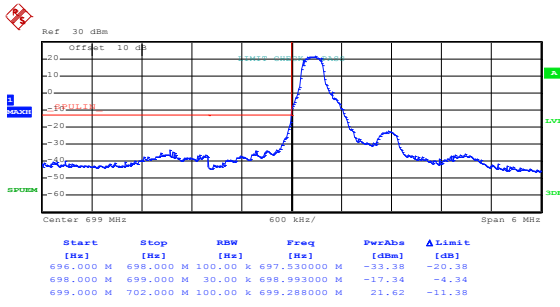
Lowest channel



Date: 16.AUG.2019 09:56:26

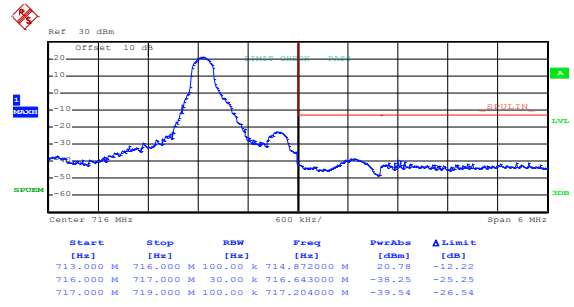
Highest channel

## LTE Band 12, BW: 1.4MHz QPSK & RB Size 1



Date: 16.AUG.2019 09:55:36

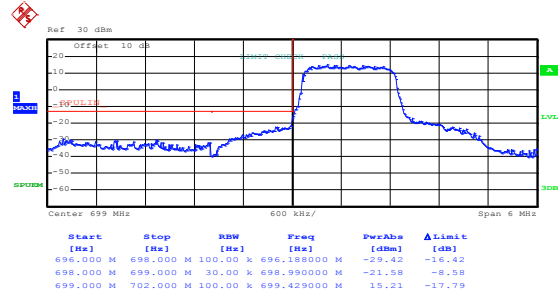
Lowest channel



Date: 16.AUG.2019 09:56:36

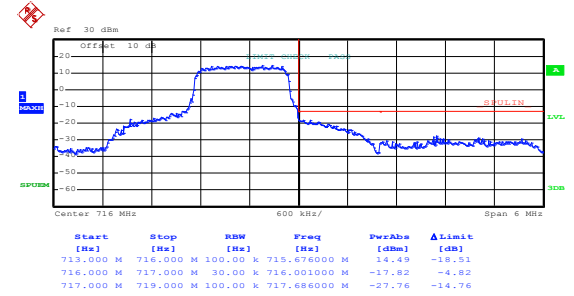
Highest channel

## QPSK & RB Size 6



Date: 16.AUG.2019 09:55:52

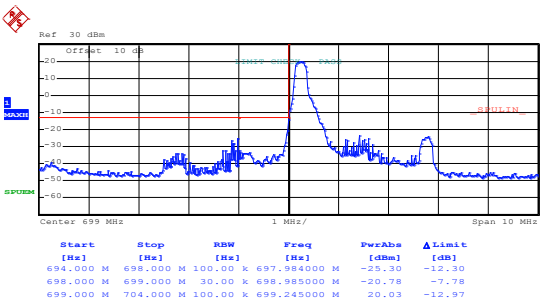
Lowest channel



Date: 16.AUG.2019 09:56:20

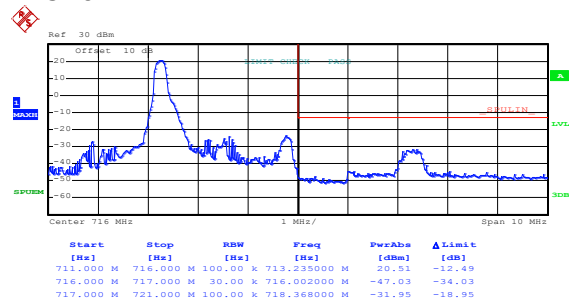
Highest channel

## LTE Band 12, BW: 3MHz 16QAM & RB Size 1



Date: 16.AUG.2019 09:59:11

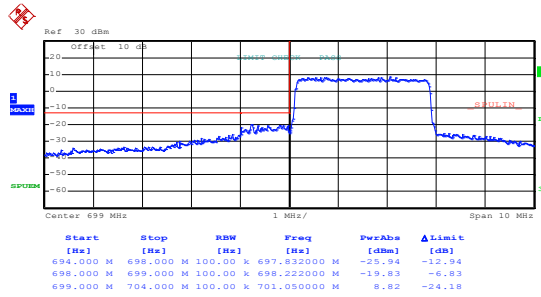
Lowest channel



Date: 16.AUG.2019 09:57:25

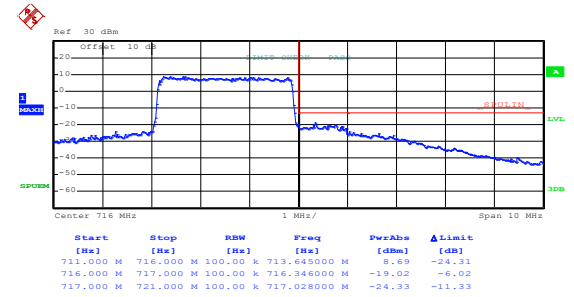
Highest channel

## 16QAM & RB Size 15



Date: 16.AUG.2019 09:58:49

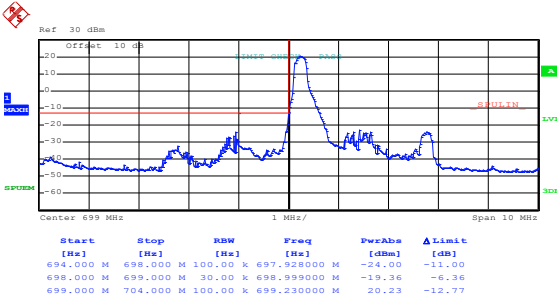
Lowest channel



Date: 16.AUG.2019 09:59:56

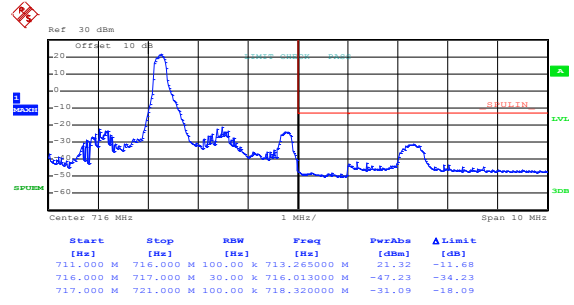
Highest channel

## LTE Band 12, BW: 3MHz QPSK & RB Size 1



Date: 16.AUG.2019 09:59:06

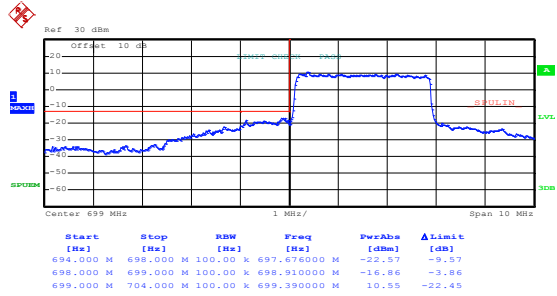
Lowest channel



Date: 16.AUG.2019 09:57:20

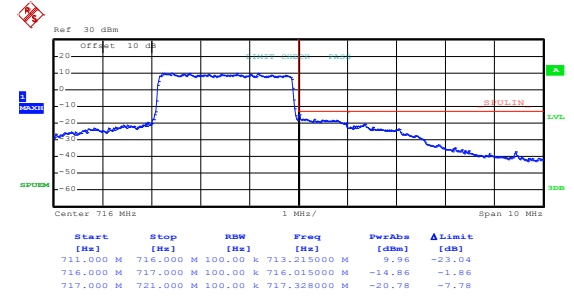
Highest channel

## QPSK & RB Size 15



Date: 16.AUG.2019 09:58:41

Lowest channel

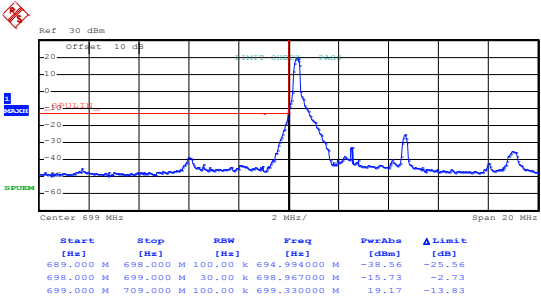


Date: 16.AUG.2019 09:59:46

Highest channel

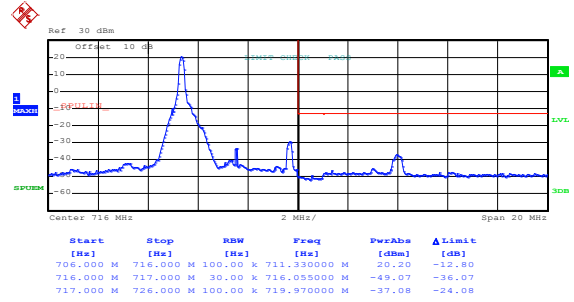


## LTE Band 12, BW: 5MHz 16QAM & RB Size 1



Date: 16.AUG.2019 10:01:42

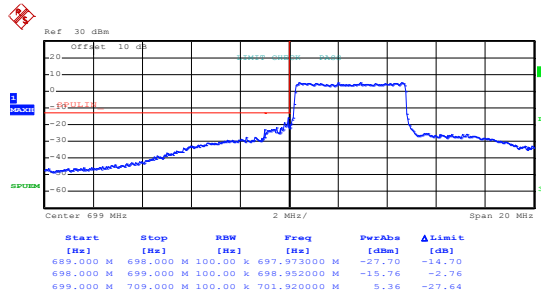
Lowest channel



Date: 16.AUG.2019 10:01:10

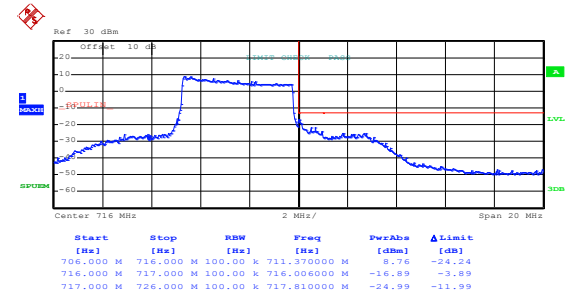
Highest channel

## 16QAM & RB Size 25



Date: 16.AUG.2019 10:02:11

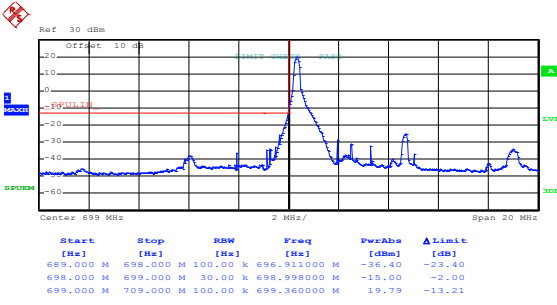
Lowest channel



Date: 16.AUG.2019 10:00:48

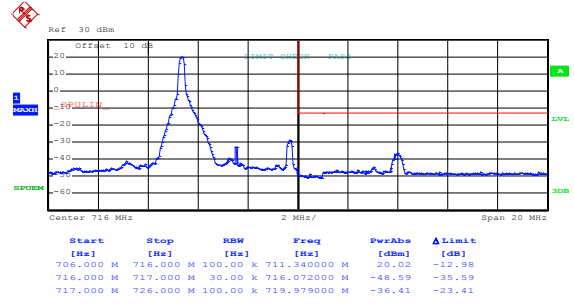
Highest channel

## LTE Band 12, BW: 5MHz QPSK & RB Size 1



Date: 16.AUG.2019 10:01:36

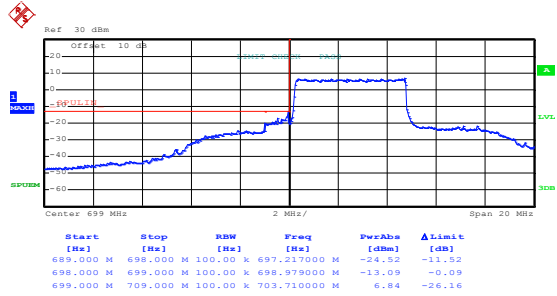
Lowest channel



Date: 16.AUG.2019 10:01:06

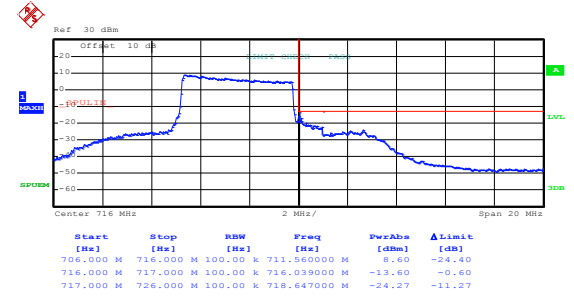
Highest channel

## QPSK & RB Size 25



Date: 16.AUG.2019 10:02:04

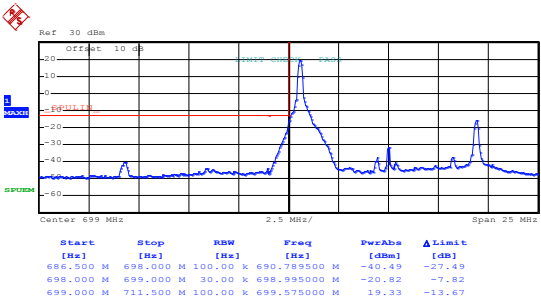
Lowest channel



Date: 16.AUG.2019 10:00:44

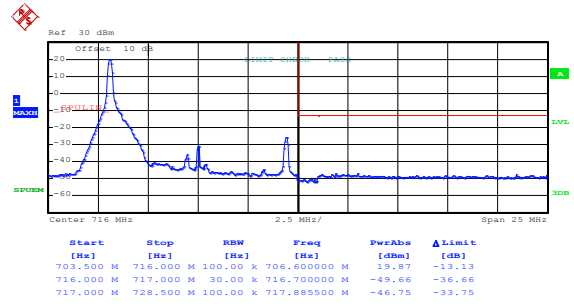
Highest channel

## LTE Band 12, BW: 10MHz 16QAM & RB Size 1



Date: 16.AUG.2019 10:03:11

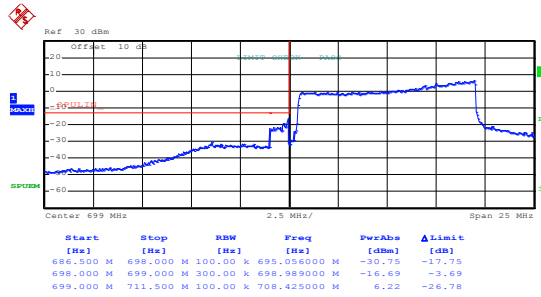
Lowest channel



Date: 16.AUG.2019 10:04:46

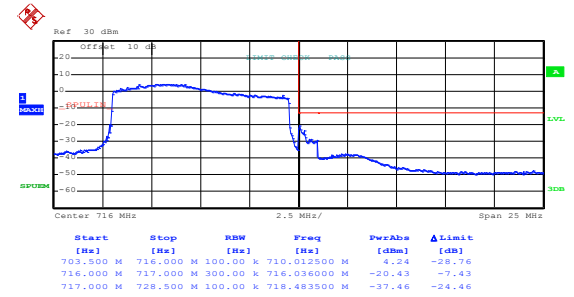
Highest channel

## 16QAM & RB Size 50



Date: 16.AUG.2019 10:03:36

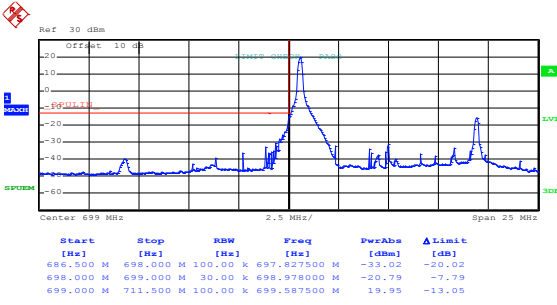
Lowest channel



Date: 16.AUG.2019 10:04:25

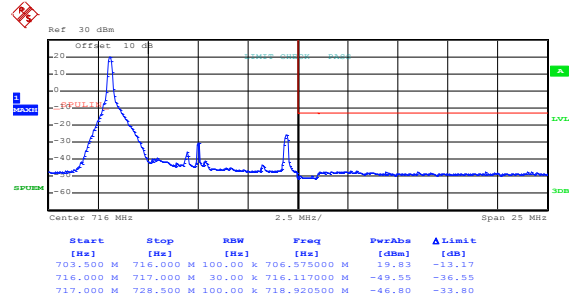
Highest channel

## LTE Band 12, BW: 10MHz QPSK & RB Size 1



Date: 16.AUG.2019 10:03:04

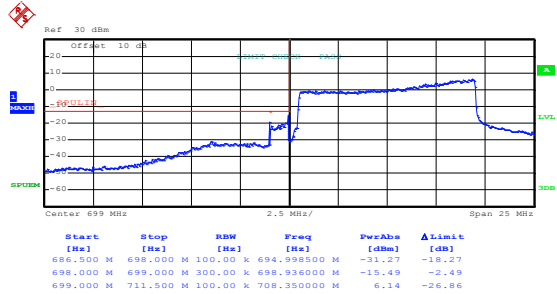
Lowest channel



Date: 16.AUG.2019 10:04:40

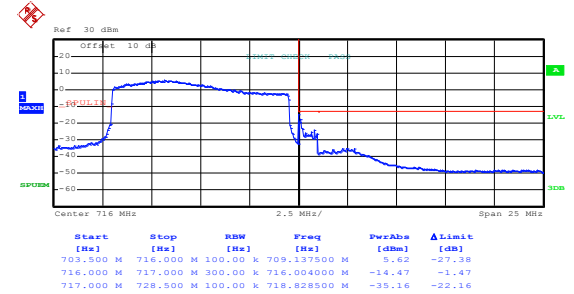
Highest channel

## QPSK & RB Size 50



Date: 16.AUG.2019 10:03:47

Lowest channel

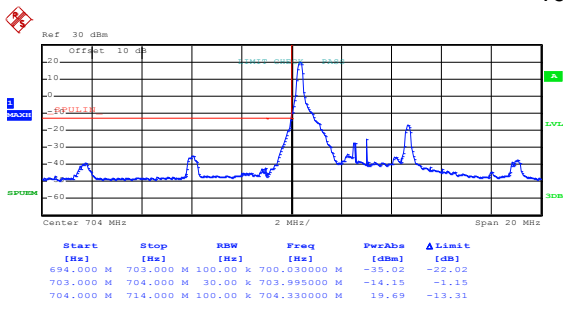


Date: 16.AUG.2019 10:04:16

Highest channel

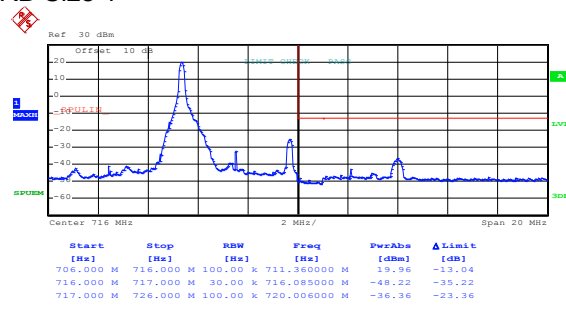
LTE Band 17 part:

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



Date: 16.AUG.2019 10:09:11

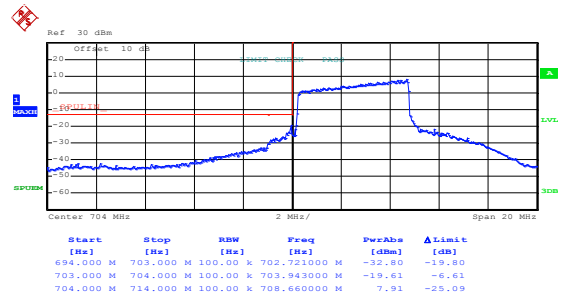
Lowest channel



Date: 16.AUG.2019 10:09:37

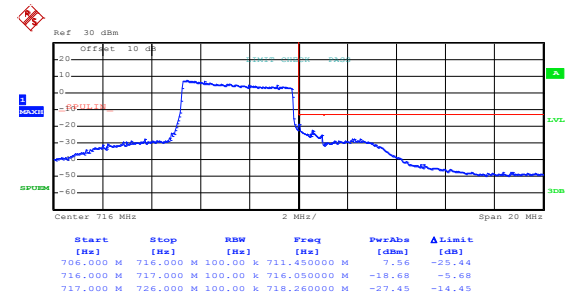
Highest channel

16QAM & RB Size 25



Date: 16.AUG.2019 10:08:42

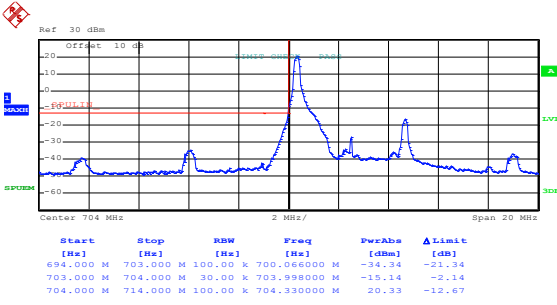
Lowest channel



Date: 16.AUG.2019 10:10:06

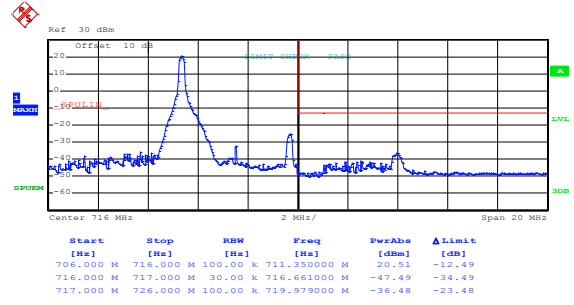
Highest channel

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



Date: 16.AUG.2019 10:09:03

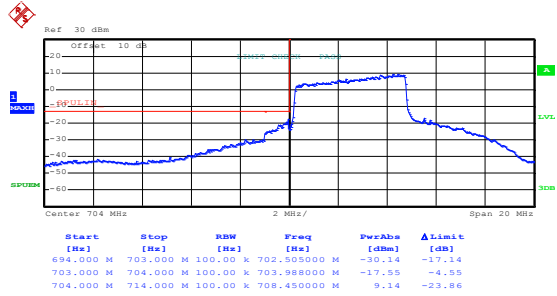
Lowest channel



Date: 16.AUG.2019 10:09:31

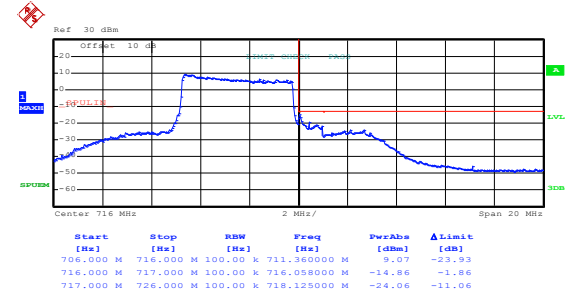
Highest channel

## QPSK & RB Size 25



Date: 16.AUG.2019 10:08:17

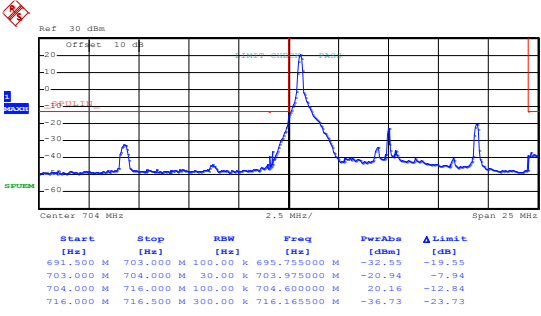
Lowest channel



Date: 16.AUG.2019 10:09:59

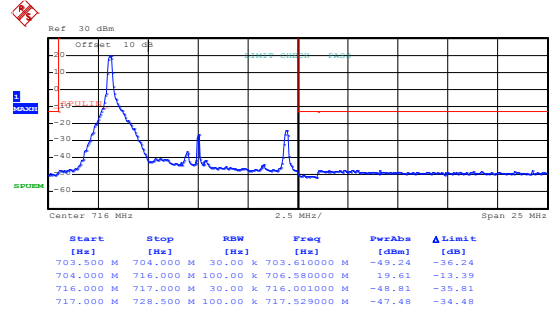
Highest channel

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



Date: 16.AUG.2019 10:14:39

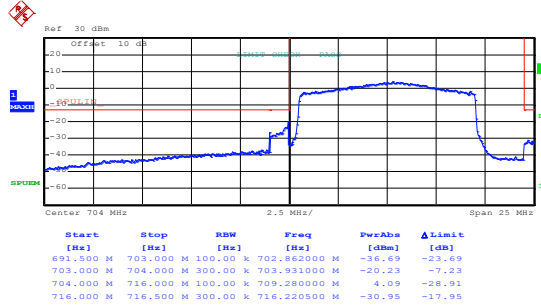
Lowest channel



Date: 16.AUG.2019 10:12:48

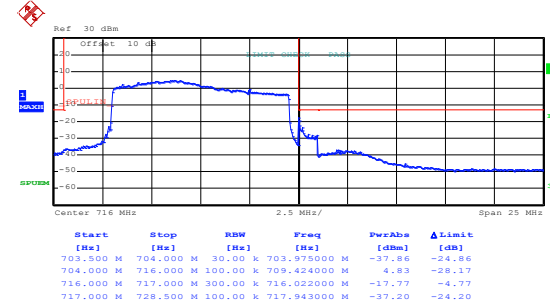
Highest channel

## 16QAM & RB Size 50



Date: 16.AUG.2019 10:14:14

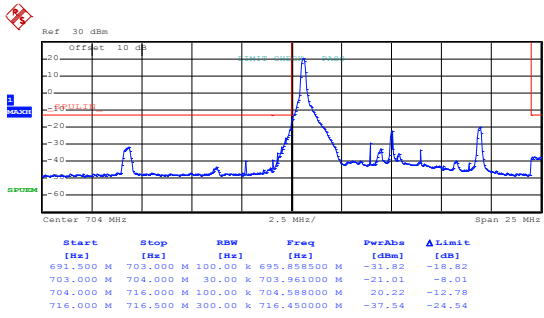
Lowest channel



Date: 16.AUG.2019 10:13:19

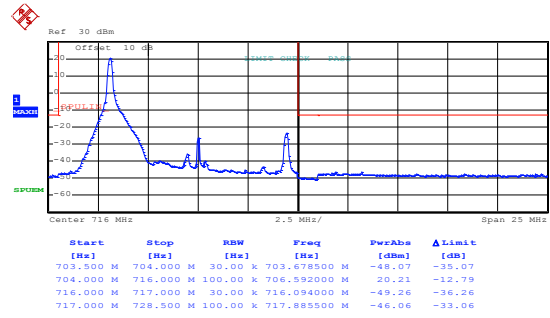
Highest channel

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



Date: 16.AUG.2019 10:14:33

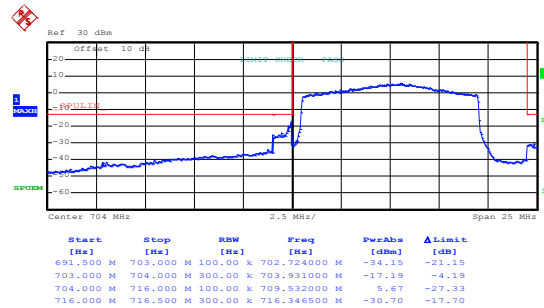
Lowest channel



Date: 16.AUG.2019 10:12:42

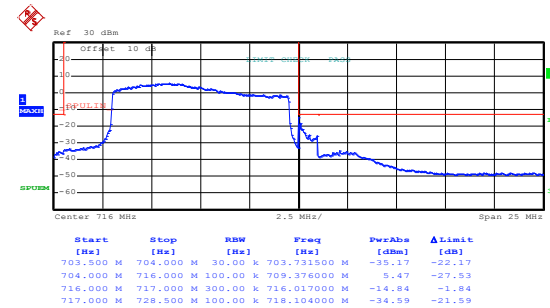
Highest channel

## QPSK & RB Size 50



Date: 16.AUG.2019 10:14:06

Lowest channel

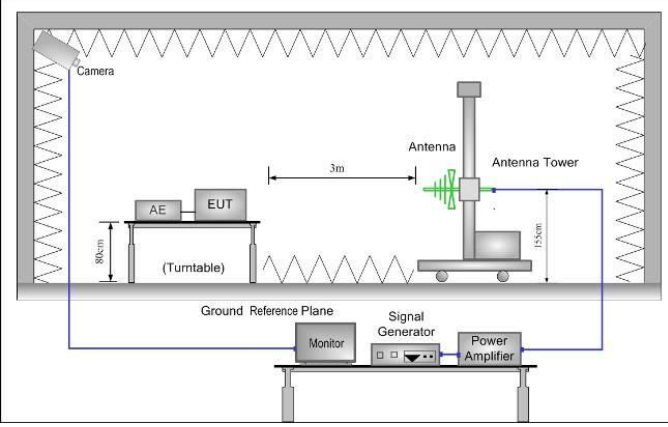
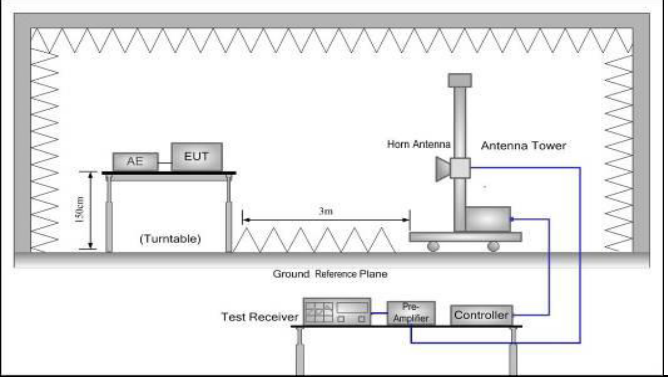


Date: 16.AUG.2019 10:13:10

Highest channel



## 6.5 Field strength of spurious radiation measurement

Test Requirement:	Part 22.917(b), Part 24.238 (a), Part 27.53(g), Part 27.53(m), Part 27.53(h)
Test Method:	ANSI/TIA-603-D 2010
Limit:	<p>LTE Band 2 &amp; 4 &amp; 5 &amp; 12 &amp; 17:</p> <p>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).</p>
Test setup:	<p>Below 1GHz</p>  <p>Above 1GHz</p> 
Test Procedure:	<ol style="list-style-type: none"> <li>1. The EUT was placed on a non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.</li> <li>2. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.</li> <li>3. The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.</li> <li>4. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.  <math display="block">ERP / EIRP = S.G. \text{ output (dBm)} + \text{Antenna Gain(dB/dBi)} - \text{Cable Loss (dB)}</math> </li> </ol>
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details.
Test results:	Passed

**Measurement Data:**

**LTE Band 2 part:**

LTE Band 2, WB: 1.4MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest Channel</b>				
3701.40	Vertical	-35.64	-13.00	Pass
5552.10	V	-34.16		
7402.00	V	-40.25		
3701.40	Horizontal	-28.79		
5552.10	H	-39.43		
7402.00	H	-29.77		
<b>Middle Channel</b>				
3760.00	Vertical	-36.63	-13.00	Pass
5640.00	V	-33.13		
7520.00	V	-39.67		
3760.00	Horizontal	-27.46		
5640.00	H	-40.13		
7520.00	H	-28.65		
<b>Highest Channel</b>				
3816.60	Vertical	-34.13	-13.00	Pass
5724.90	V	-33.36		
7633.20	V	-39.52		
3816.60	Horizontal	-27.45		
5724.90	H	-40.12		
7633.20	H	-28.79		
<p>Note:</p> <ol style="list-style-type: none"> <li>The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.</li> <li>For above 1 GHz, all test modes were performed, and just the worst case shown in the report.</li> </ol>				

LTE Band 2, WB: 3MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest Channel</b>				
3703.00	Vertical	-31.24	-13.00	Pass
5554.50	V	-34.56		
7406.00	V	-40.69		
3703.00	Horizontal	-26.56		
5554.50	H	-40.22		
7406.00	H	-27.48		
<b>Middle Channel</b>				
3760.00	Vertical	-31.36	-13.00	Pass
5640.00	V	-32.56		
7520.00	V	-41.25		
3760.00	Horizontal	-28.63		
5640.00	H	-39.76		
7520.00	H	-25.16		
<b>Highest Channel</b>				
3817.00	Vertical	-33.32	-13.00	Pass
5725.50	V	-34.15		
7634.00	V	-40.56		
3817.00	Horizontal	-26.76		
5725.50	H	-39.49		
7634.00	H	-27.44		
<p><i>Note:</i></p> <ol style="list-style-type: none"> <li><i>The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.</i></li> <li><i>For above 1 GHz, all test modes were performed, and just the worst case shown in the report.</i></li> </ol>				

LTE Band 2, WB: 5MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest Channel</b>				
3705.00	Vertical	-35.52	-13.00	Pass
5557.50	V	-33.31		
7410.00	V	-40.25		
3705.00	Horizontal	-27.49		
5557.50	H	-40.16		
7410.00	H	-29.78		
<b>Middle Channel</b>				
3760.00	Vertical	-35.53	-13.00	Pass
5640.00	V	-34.16		
7520.00	V	-40.25		
3760.00	Horizontal	-26.63		
5640.00	H	-39.76		
7520.00	H	-27.45		
<b>Highest Channel</b>				
3815.00	Vertical	-33.23	-13.00	Pass
5722.50	V	-34.61		
7630.00	V	-40.56		
3815.00	Horizontal	-28.56		
5722.50	H	-39.45		
7630.00	H	-27.49		
<p><i>Note:</i></p> <ol style="list-style-type: none"> <li><i>The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.</i></li> <li><i>For above 1 GHz, all test modes were performed, and just the worst case shown in the report.</i></li> </ol>				

LTE Band 2, WB: 10MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest Channel</b>				
3710.00	Vertical	-32.23	-13.00	Pass
5565.00	V	-33.63		
7420.00	V	-39.15		
3710.00	Horizontal	-26.69		
5565.00	H	-39.75		
7420.00	H	-26.44		
<b>Middle Channel</b>				
3760.00	Vertical	-32.25	-13.00	Pass
5640.00	V	-33.46		
7520.00	V	-41.75		
3760.00	Horizontal	-27.59		
5640.00	H	-40.15		
7520.00	H	-26.63		
<b>Highest Channel</b>				
3810.00	Vertical	-32.24	-13.00	Pass
5715.00	V	-34.15		
7620.00	V	-39.75		
3810.00	Horizontal	-27.46		
5715.00	H	-40.22		
7620.00	H	-28.85		
<p><i>Note:</i></p> <ol style="list-style-type: none"> <li><i>The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.</i></li> <li><i>For above 1 GHz, all test modes were performed, and just the worst case shown in the report.</i></li> </ol>				

LTE Band 2, WB: 15MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest Channel</b>				
3715.00	Vertical	-34.63	-13.00	Pass
5572.50	V	-33.23		
7430.00	V	-39.56		
3715.00	Horizontal	-26.45		
5572.50	H	-39.11		
7430.00	H	-28.75		
<b>Middle Channel</b>				
3760.00	Vertical	-34.12	-13.00	Pass
5640.00	V	-33.26		
7520.00	V	-41.56		
3760.00	Horizontal	-27.46		
5640.00	H	-40.19		
7520.00	H	-26.55		
<b>Highest Channel</b>				
3805.00	Vertical	-32.26	-13.00	Pass
5707.50	V	-33.46		
7610.00	V	-39.75		
3805.00	Horizontal	-27.45		
5707.50	H	-40.10		
7610.00	H	-26.59		
<p><i>Note:</i></p> <ol style="list-style-type: none"> <li><i>The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.</i></li> <li><i>For above 1 GHz, all test modes were performed, and just the worst case shown in the report.</i></li> </ol>				

LTE Band 2, WB: 20MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest Channel</b>				
3720.00	Vertical	-33.23	-13.00	Pass
5580.00	V	-34.16		
7440.00	V	-40.36		
3720.00	Horizontal	-27.64		
5580.00	H	-40.55		
7440.00	H	-27.49		
<b>Middle Channel</b>				
3760.00	Vertical	-33.23	-13.00	Pass
5640.00	V	-34.15		
7520.00	V	-42.56		
3760.00	Horizontal	-26.63		
5640.00	H	-39.19		
7520.00	H	-25.52		
<b>Highest Channel</b>				
3800.00	Vertical	-31.43	-13.00	Pass
5700.00	V	-33.56		
7600.00	V	-40.74		
3800.00	Horizontal	-26.63		
5700.00	H	-39.56		
7600.00	H	-27.48		
<p><i>Note:</i></p> <ol style="list-style-type: none"> <li><i>The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.</i></li> <li><i>For above 1 GHz, all test modes were performed, and just the worst case shown in the report.</i></li> </ol>				

**LTE Band 4 part:**

LTE Band 4, WB: 1.4MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest Channel</b>				
3421.40	Vertical	-46.38	-13.00	Pass
5132.10	V	-34.47		
6842.80	V	-36.43		
3421.40	Horizontal	-42.22		
5132.10	H	-23.95		
6842.80	H	-27.00		
<b>Middle Channel</b>				
3465.00	Vertical	-45.25	-13.00	Pass
5197.50	V	-33.23		
6930.00	V	-35.67		
3465.00	Horizontal	-41.42		
5197.50	H	-22.61		
6930.00	H	-26.79		
<b>Highest Channel</b>				
3508.60	Vertical	-45.53	-13.00	Pass
5262.90	V	-33.23		
7017.20	V	-35.16		
3508.60	Horizontal	-41.75		
5262.90	H	-23.66		
7017.20	H	-26.78		
<p><i>Note:</i></p> <ol style="list-style-type: none"> <li><i>The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.</i></li> <li><i>For above 1 GHz, all test modes were performed, and just the worst case shown in the report.</i></li> </ol>				



LTE Band 4, WB: 3MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest Channel</b>				
3423.00	Vertical	-46.33	-13.00	Pass
5134.50	V	-31.46		
6846.00	V	-34.52		
3423.00	Horizontal	-42.61		
5134.50	H	-25.76		
6846.00	H	-26.49		
<b>Middle Channel</b>				
3465.00	Vertical	-41.75	-13.00	Pass
5197.50	V	-32.26		
6930.00	V	-35.61		
3465.00	Horizontal	-41.32		
5197.50	H	-26.63		
6930.00	H	-24.76		
<b>Highest Channel</b>				
3507.00	Vertical	-45.52	-13.00	Pass
5260.50	V	-30.34		
7014.00	V	-34.15		
3507.00	Horizontal	-22.66		
5260.50	H	-23.63		
7014.00	H	-29.78		
<p><i>Note:</i></p> <ol style="list-style-type: none"> <li><i>The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.</i></li> <li><i>For above 1 GHz, all test modes were performed, and just the worst case shown in the report.</i></li> </ol>				

LTE Band 4, WB: 5MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest Channel</b>				
3425.00	Vertical	-45.54	-13.00	Pass
5137.50	V	-33.13		
6850.00	V	-35.67		
3425.00	Horizontal	-41.52		
5137.50	H	-23.44		
6850.00	H	-26.79		
<b>Middle Channel</b>				
3465.00	Vertical	-44.55	-13.00	Pass
5197.50	V	-32.56		
6930.00	V	-34.16		
3465.00	Horizontal	-42.56		
5197.50	H	-23.69		
6930.00	H	-25.75		
<b>Highest Channel</b>				
3505.00	Vertical	-46.12	-13.00	Pass
5257.50	V	-33.75		
7010.00	V	-34.61		
3505.00	Horizontal	-42.73		
5257.50	H	-23.97		
7010.00	H	-25.66		
<p><i>Note:</i></p> <ol style="list-style-type: none"> <li><i>The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.</i></li> <li><i>For above 1 GHz, all test modes were performed, and just the worst case shown in the report.</i></li> </ol>				

LTE Band 4, WB: 10MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest Channel</b>				
3430.00	Vertical	-46.36	-13.00	Pass
5145.00	V	-32.23		
6860.00	V	-34.63		
3430.00	Horizontal	-43.25		
5145.00	H	-26.96		
6860.00	H	-25.13		
<b>Middle Channel</b>				
3465.00	Vertical	-42.33	-13.00	Pass
5197.50	V	-31.46		
6930.00	V	-36.63		
3465.00	Horizontal	-42.53		
5197.50	H	-21.47		
6930.00	H	-25.76		
<b>Highest Channel</b>				
3500.00	Vertical	-46.36	-13.00	Pass
5250.00	V	-31.46		
7000.00	V	-35.56		
3500.00	Horizontal	-42.79		
5250.00	H	-22.55		
7000.00	H	-26.49		
<p><i>Note:</i></p> <ol style="list-style-type: none"> <li><i>The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.</i></li> <li><i>For above 1 GHz, all test modes were performed, and just the worst case shown in the report.</i></li> </ol>				

LTE Band 4, WB: 15MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest Channel</b>				
3435.00	Vertical	-46.31	-13.00	Pass
5152.50	V	-32.53		
6870.00	V	-34.16		
3435.00	Horizontal	-42.21		
5152.50	H	-24.56		
6870.00	H	-27.45		
<b>Middle Channel</b>				
3465.00	Vertical	-46.63	-13.00	Pass
5197.50	V	-31.36		
6930.00	V	-33.53		
3465.00	Horizontal	-42.79		
5197.50	H	-23.16		
6930.00	H	-26.79		
<b>Highest Channel</b>				
3495.00	Vertical	-46.55	-13.00	Pass
5242.50	V	-34.53		
6990.00	V	-36.63		
3495.00	Horizontal	-41.56		
5242.50	H	-23.77		
6990.00	H	-25.49		
<p><i>Note:</i></p> <ol style="list-style-type: none"> <li><i>The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.</i></li> <li><i>For above 1 GHz, all test modes were performed, and just the worst case shown in the report.</i></li> </ol>				

LTE Band 4, WB: 20MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest Channel</b>				
3440.00	Vertical	-45.25	-13.00	Pass
5160.00	V	-31.43		
6880.00	V	-33.23		
3440.00	Horizontal	-42.69		
5160.00	H	-25.53		
6880.00	H	-26.77		
<b>Middle Channel</b>				
3465.00	Vertical	-42.54	-13.00	Pass
5197.50	V	-32.23		
6930.00	V	-34.16		
3465.00	Horizontal	-41.75		
5197.50	H	-22.55		
6930.00	H	-26.79		
<b>Highest Channel</b>				
3490.00	Vertical	-45.12	-13.00	Pass
5235.00	V	-32.47		
6980.00	V	-36.53		
3490.00	Horizontal	-42.52		
5235.00	H	-23.15		
6980.00	H	-25.91		
<p><i>Note:</i></p> <ol style="list-style-type: none"> <li><i>The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.</i></li> <li><i>For above 1 GHz, all test modes were performed, and just the worst case shown in the report.</i></li> </ol>				

**LTE Band 5 part:**

LTE Band 5, WB: 1.4MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest Channel</b>				
1649.40	Vertical	-49.52	-13.00	Pass
2474.10	V	-52.36		
3298.80	V	-43.16		
1649.40	Horizontal	-45.18		
2474.10	H	-52.53		
3298.80	H	-42.95		
<b>Middle Channel</b>				
1673.00	Vertical	-48.32	-13.00	Pass
2509.50	V	-52.43		
3346.00	V	-43.69		
1673.00	Horizontal	-44.98		
2509.50	H	-46.36		
3346.00	H	-41.73		
<b>Highest Channel</b>				
1696.60	Vertical	-48.63	-13.00	Pass
2544.90	V	-51.36		
3393.20	V	-42.56		
1696.60	Horizontal	-44.19		
2544.90	H	-53.33		
3393.20	H	-41.79		
<p><i>Note:</i></p> <ol style="list-style-type: none"> <li><i>The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.</i></li> <li><i>For above 1 GHz, all test modes were performed, and just the worst case shown in the report.</i></li> </ol>				

LTE Band 5, WB: 3MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest Channel</b>				
1651.00	Vertical	-50.25	-13.00	Pass
2476.50	V	-51.43		
3302.00	V	-42.63		
1651.00	Horizontal	-44.16		
2476.50	H	-52.73		
3302.00	H	-41.98		
<b>Middle Channel</b>				
1673.00	Vertical	-45.23	-13.00	Pass
2509.50	V	-52.22		
3346.00	V	-43.61		
1673.00	Horizontal	-46.76		
2509.50	H	-42.53		
3346.00	H	-41.77		
<b>Highest Channel</b>				
1695.00	Vertical	-46.23	-13.00	Pass
2542.50	V	-53.23		
3390.00	V	-41.25		
1695.00	Horizontal	-45.55		
2542.50	H	-52.79		
3390.00	H	-43.16		
<p><i>Note:</i></p> <ol style="list-style-type: none"> <li><i>The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.</i></li> <li><i>For above 1 GHz, all test modes were performed, and just the worst case shown in the report.</i></li> </ol>				

LTE Band 5, WB: 5MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest Channel</b>				
1653.00	Vertical	-48.25	-13.00	Pass
2479.50	V	-51.36		
3306.00	V	-42.56		
1653.00	Horizontal	-46.69		
2479.50	H	-52.33		
3306.00	H	-41.75		
<b>Middle Channel</b>				
1673.00	Vertical	-47.16	-13.00	Pass
2509.50	V	-52.85		
3346.00	V	-42.36		
1673.00	Horizontal	-45.19		
2509.50	H	-46.33		
3346.00	H	-42.75		
<b>Highest Channel</b>				
1693.00	Vertical	-48.56	-13.00	Pass
2539.50	V	-52.32		
3386.00	V	-43.16		
1693.00	Horizontal	-45.72		
2539.50	H	-52.24		
3386.00	H	-41.77		
<p><i>Note:</i></p> <ol style="list-style-type: none"> <li><i>The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.</i></li> <li><i>For above 1 GHz, all test modes were performed, and just the worst case shown in the report.</i></li> </ol>				



LTE Band 5, WB: 10MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest Channel</b>				
1658.00	Vertical	-49.36	-13.00	Pass
2487.00	V	-52.23		
3316.00	V	-41.55		
1658.00	Horizontal	-45.25		
2487.00	H	-51.79		
3316.00	H	-42.33		
<b>Middle Channel</b>				
1673.00	Vertical	-46.36	-13.00	Pass
2509.50	V	-51.42		
3346.00	V	-42.16		
1673.00	Horizontal	-46.32		
2509.50	H	-41.75		
3346.00	H	-42.33		
<b>Highest Channel</b>				
1688.00	Vertical	-47.46	-13.00	Pass
2532.00	V	-52.33		
3376.00	V	-42.16		
1688.00	Horizontal	-46.36		
2532.00	H	-51.37		
3376.00	H	-42.87		
<p><i>Note:</i></p> <ol style="list-style-type: none"> <li><i>The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.</i></li> <li><i>For above 1 GHz, all test modes were performed, and just the worst case shown in the report.</i></li> </ol>				

**LTE Band 12 part:**

LTE Band 12, WB: 1.4MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest Channel</b>				
1399.40	Vertical	-49.51	-13.00	Pass
2099.10	V	-54.15		
2798.80	V	-52.11		
1399.40	Horizontal	-48.17		
2099.10	H	-56.65		
2798.80	H	-52.81		
<b>Middle Channel</b>				
1415.00	Vertical	-48.63	-13.00	Pass
2122.50	V	-53.63		
2830.00	V	-52.56		
1415.00	Horizontal	-47.58		
2122.50	H	-54.12		
2830.00	H	-51.76		
<b>Highest Channel</b>				
1430.60	Vertical	-47.63	-13.00	Pass
2145.90	V	-52.45		
2861.20	V	-51.79		
1430.60	Horizontal	-46.65		
2145.90	H	-53.32		
2861.20	H	-52.75		
<p><i>Note:</i></p> <ol style="list-style-type: none"> <li><i>The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.</i></li> <li><i>For above 1 GHz, all test modes were performed, and just the worst case shown in the report.</i></li> </ol>				

LTE Band 12, WB: 3MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest Channel</b>				
1401.00	Vertical	-46.36	-13.00	Pass
2101.50	V	-51.30		
2802.00	V	-49.63		
1401.00	Horizontal	-45.21		
2101.50	H	-53.32		
2802.00	H	-49.76		
<b>Middle Channel</b>				
1415.00	Vertical	-45.22	-13.00	Pass
2122.50	V	-52.13		
2830.00	V	-46.36		
1415.00	Horizontal	-51.79		
2122.50	H	-51.49		
2830.00	H	-48.66		
<b>Highest Channel</b>				
1429.00	Vertical	-45.22	-13.00	Pass
2143.50	V	-51.36		
2858.00	V	-46.31		
1429.00	Horizontal	-51.42		
2143.50	H	-52.72		
2858.00	H	-51.49		
<p><i>Note:</i></p> <ol style="list-style-type: none"> <li><i>The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.</i></li> <li><i>For above 1 GHz, all test modes were performed, and just the worst case shown in the report.</i></li> </ol>				

LTE Band 12, WB: 5MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest Channel</b>				
1403.00	Vertical	-48.56	-13.00	Pass
2104.50	V	-53.32		
2806.00	V	-51.42		
1403.00	Horizontal	-47.19		
2104.50	H	-55.56		
2806.00	H	-51.46		
<b>Middle Channel</b>				
1415.00	Vertical	-46.32	-13.00	Pass
2122.50	V	-52.29		
2830.00	V	-46.61		
1415.00	Horizontal	-45.75		
2122.50	H	-53.23		
2830.00	H	-51.76		
<b>Highest Channel</b>				
1427.00	Vertical	-46.32	-13.00	Pass
2410.50	V	-52.75		
2854.00	V	-46.32		
1427.00	Horizontal	-52.46		
2410.50	H	-53.89		
2854.00	H	-51.73		
<p><i>Note:</i></p> <ol style="list-style-type: none"> <li><i>The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.</i></li> <li><i>For above 1 GHz, all test modes were performed, and just the worst case shown in the report.</i></li> </ol>				

LTE Band 12, WB: 10MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest Channel</b>				
1408.00	Vertical	-47.32	-13.00	Pass
2112.00	V	-52.23		
2816.00	V	-52.63		
1408.00	Horizontal	-46.31		
2112.00	H	-54.75		
2816.00	H	-52.13		
<b>Middle Channel</b>				
1415.00	Vertical	-45.52	-13.00	Pass
2122.50	V	-51.34		
2830.00	V	-45.67		
1415.00	Horizontal	-44.30		
2122.50	H	-52.13		
2830.00	H	-49.78		
<b>Highest Channel</b>				
1422.00	Vertical	-45.23	-13.00	Pass
2133.00	V	-51.34		
2844.00	V	-46.55		
1422.00	Horizontal	-51.73		
2133.00	H	-53.69		
2844.00	H	-52.73		
<p><i>Note:</i></p> <ol style="list-style-type: none"> <li><i>The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.</i></li> <li><i>For above 1 GHz, all test modes were performed, and just the worst case shown in the report.</i></li> </ol>				

**LTE Band 17 part:**

LTE Band 17, WB: 5MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest Channel</b>				
1413.00	Vertical	-54.66	-13.00	Pass
2119.50	V	-56.79		
2826.00	V	-53.11		
1413.00	Horizontal	-53.32		
2119.50	H	-56.53		
2826.00	H	-52.30		
<b>Middle Channel</b>				
1420.00	Vertical	-53.23	-13.00	Pass
2130.00	V	-54.21		
2840.00	V	-52.63		
1420.00	Horizontal	-54.30		
2130.00	H	-55.76		
2840.00	H	-51.49		
<b>Highest Channel</b>				
1427.00	Vertical	-53.33	-13.00	Pass
2140.50	V	-54.15		
2854.00	V	-52.76		
1427.00	Horizontal	-52.46		
2140.50	H	-57.49		
2854.00	H	-51.44		
<p>Note:</p> <ol style="list-style-type: none"> <li>The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.</li> <li>For above 1 GHz, all test modes were performed, and just the worst case shown in the report.</li> </ol>				

LTE Band 17, WB: 10MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest Channel</b>				
1418.00	Vertical	-53.36	-13.00	Pass
2127.00	V	-55.72		
2836.00	V	-52.43		
1418.00	Horizontal	-53.69		
2127.00	H	-55.44		
2836.00	H	-51.79		
<b>Middle Channel</b>				
1420.00	Vertical	-52.26	-13.00	Pass
2130.00	V	-54.19		
2840.00	V	-53.63		
1420.00	Horizontal	-55.85		
2130.00	H	-54.12		
2840.00	H	-52.77		
<b>Highest Channel</b>				
1422.00	Vertical	-53.26	-13.00	Pass
2133.00	V	-53.16		
2844.00	V	-52.44		
1422.00	Horizontal	-51.79		
2133.00	H	-52.56		
2844.00	H	-53.79		
<p><i>Note:</i></p> <ol style="list-style-type: none"> <li><i>The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.</i></li> <li><i>For above 1 GHz, all test modes were performed, and just the worst case shown in the report.</i></li> </ol>				

## 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)
Test Method:	ANSI/TIA-603-D 2010
Limit:	±2.5ppm for band 5 within authorized band for band 2 and 4 and 12 and 17
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 5.9 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>					
3.70	-30	190	0.101064	within authorized band	Pass
	-20	181	0.096277		
	-10	170	0.090426		
	0	163	0.086702		
	10	152	0.080851		
	20	143	0.076064		
	30	131	0.069681		
	40	118	0.062766		
	50	126	0.067021		
<b>16QAM</b>					
3.70	-30	168	0.089362	within authorized band	Pass
	-20	150	0.079787		
	-10	139	0.073936		
	0	125	0.066489		
	10	113	0.060106		
	20	140	0.074468		
	30	121	0.064362		
	40	132	0.070213		
	50	155	0.082447		
<i>Note: Only the worst case shown in the report.</i>					

**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>					
3.70	-30	189	0.109091	within authorized band	Pass
	-20	170	0.098124		
	-10	163	0.094084		
	0	155	0.089466		
	10	143	0.082540		
	20	136	0.078499		
	30	124	0.071573		
	40	116	0.066955		
	50	109	0.062915		
<b>16QAM</b>					
3.70	-30	165	0.095238	within authorized band	Pass
	-20	149	0.086003		
	-10	136	0.078499		
	0	127	0.073304		
	10	117	0.067532		
	20	109	0.062915		
	30	101	0.058297		
	40	123	0.070996		
	50	142	0.081962		
<i>Note: Only the worst case shown in the report.</i>					

**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>					
3.70	-30	190	0.227137	±2.5	Pass
	-20	182	0.217573		
	-10	173	0.206814		
	0	160	0.191273		
	10	153	0.182905		
	20	141	0.168559		
	30	135	0.161387		
	40	126	0.150628		
	50	113	0.135087		
<b>16QAM</b>					
3.70	-30	167	0.199641	±2.5	Pass
	-20	154	0.184100		
	-10	141	0.168559		
	0	132	0.157800		
	10	121	0.144650		
	20	114	0.136282		
	30	108	0.129109		
	40	127	0.151823		
	50	145	0.173341		

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

**LTE Band 12 part:**

Reference Frequency: LTE Band 12 (10MHz) Middle channel=23095 channel=707.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
<b>QPSK</b>					
3.70	-30	187	0.264311	within authorized band	Pass
	-20	176	0.248763		
	-10	165	0.233216		
	0	158	0.223322		
	10	147	0.207774		
	20	139	0.196466		
	30	128	0.180919		
	40	117	0.165371		
	50	109	0.154064		
<b>16QAM</b>					
3.70	-30	162	0.228975	within authorized band	Pass
	-20	153	0.216254		
	-10	145	0.204947		
	0	137	0.193640		
	10	126	0.178092		
	20	117	0.165371		
	30	108	0.152650		
	40	113	0.159717		
	50	130	0.183746		

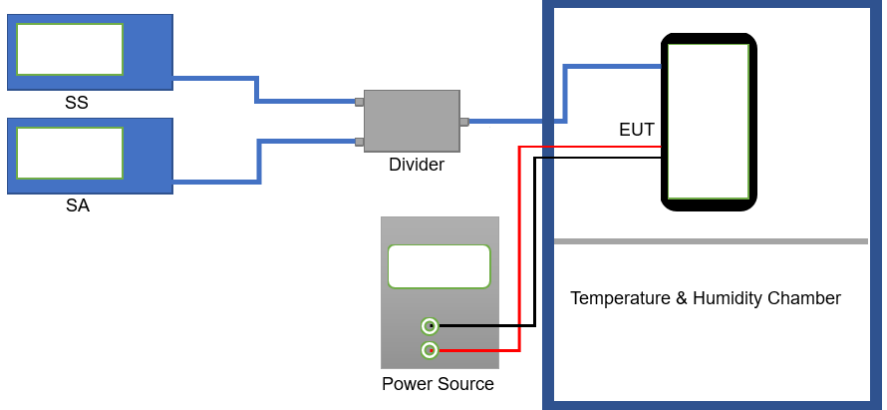
*Note: Only the worst case shown in the report.*

**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>					
3.70	-30	185	0.260563	within authorized band	Pass
	-20	173	0.243662		
	-10	166	0.233803		
	0	157	0.221127		
	10	148	0.208451		
	20	139	0.195775		
	30	120	0.169014		
	40	113	0.159155		
	50	132	0.185915		
<b>16QAM</b>					
3.70	-30	164	0.230986	within authorized band	Pass
	-20	150	0.211268		
	-10	142	0.200000		
	0	136	0.191549		
	10	127	0.178873		
	20	116	0.163380		
	30	108	0.152113		
	40	123	0.173239		
	50	154	0.216901		

*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)
Test Method:	ANSI/TIA-603-D 2010
Limit:	±2.5ppm for band 5 within authorized band for band 2 and 4 and 12 and 17
Test setup:	 <p>The diagram illustrates the test setup. On the left, a Signal Source (SS) and a Spectrum Analyzer (SA) are connected to a central Divider. The Divider is connected to an Equipment Under Test (EUT) located inside a Temperature &amp; Humidity Chamber. A Power Source is also connected to the EUT. The chamber is shown as a large blue box containing the EUT and the Power Source.</p>
Test procedure:	<ol style="list-style-type: none"> <li>1. Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage.</li> <li>2. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.</li> <li>3. Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.</li> </ol>
Test Instruments:	Refer to section 5.9 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	4.20	90	0.047872	within authorized band	Pass
	3.70	81	0.043085		
	3.50	72	0.038298		
16QAM					
25	4.20	89	0.047340	within authorized band	Pass
	3.70	70	0.037234		
	3.50	66	0.035106		

*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	4.20	89	0.051371	within authorized band	Pass
	3.70	76	0.043867		
	3.50	63	0.036364		
16QAM					
25	4.20	88	0.050794	within authorized band	Pass
	3.70	70	0.040404		
	3.50	56	0.032323		

*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	4.20	93	0.111178	±2.5	Pass
	3.70	80	0.095637		
	3.50	64	0.076509		
16QAM					
25	4.20	90	0.107591	±2.5	Pass
	3.70	79	0.094441		
	3.50	57	0.068141		

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

**LTE Band 12 part:**

Reference Frequency: LTE Band 12(10MHz) Middle channel=23095 channel=707.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	4.20	91	0.128622	within authorized band	Pass
	3.70	84	0.118728		
	3.50	59	0.083392		
16QAM					
25	4.20	86	0.121555	within authorized band	Pass
	3.70	70	0.098940		
	3.50	51	0.072085		

*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	4.20	94	0.132394	within authorized band	Pass
	3.70	78	0.109859		
	3.50	54	0.076056		
16QAM					
25	4.20	92	0.129577	within authorized band	Pass
	3.70	78	0.109859		
	3.50	58	0.081690		

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