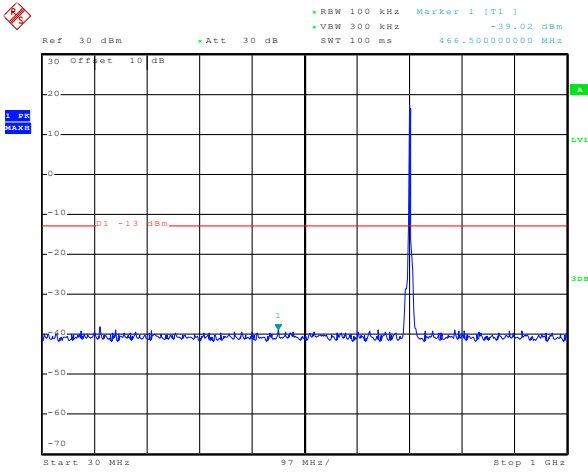
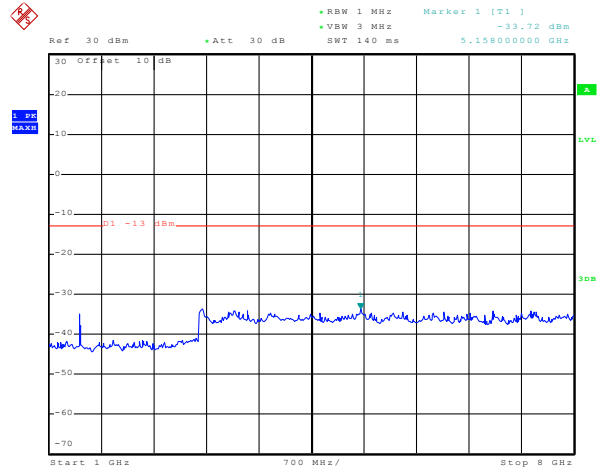


Test Mode:	LTE band 17(5MHz 16QAM) RB Size 12 & RB Offset 0	Test Channel:	Middle channel
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Date: 10.NOV.2015 08:31:12

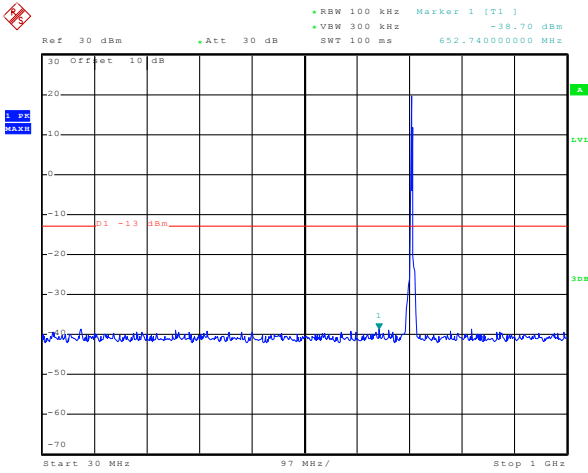
30MHz~1GHz



Date: 10.NOV.2015 08:33:41

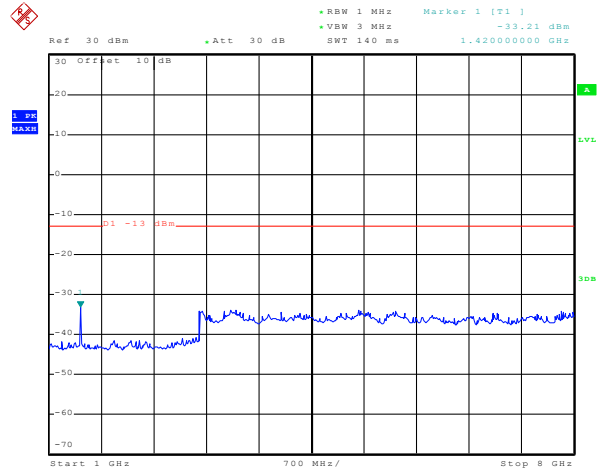
1GHz~8GHz

Test Mode:	LTE band 17(5MHz 16QAM) RB Size 12 & RB Offset 0	Test Channel:	Highest channel
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Date: 10.NOV.2015 07:45:08

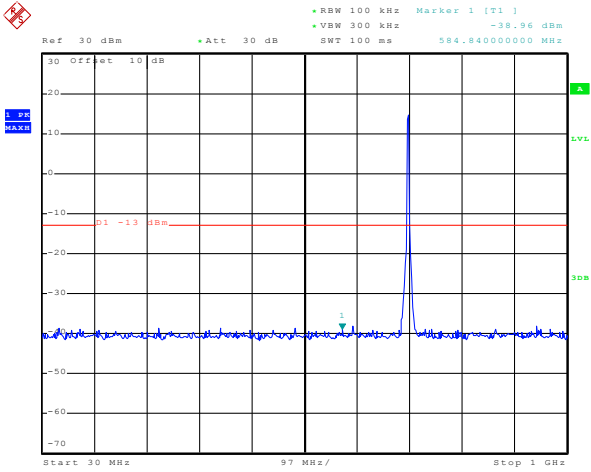
30MHz~1GHz



Date: 10.NOV.2015 08:35:08

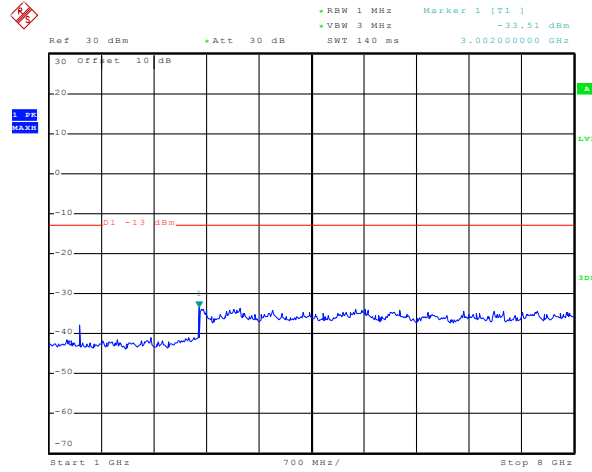
1GHz~8GHz

Test Mode:	LTE band 17(5MHz 16QAM) RB Size 25 & RB Offset 0	Test Channel:	Lowest channel
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Date: 10.NOV.2015 08:26:21

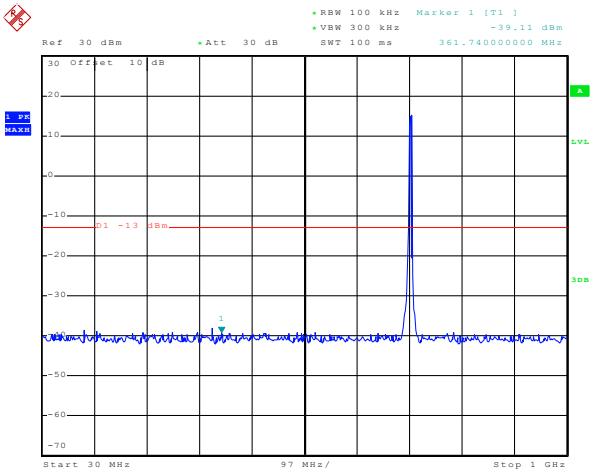
30MHz~1GHz



Date: 10.NOV.2015 08:25:42

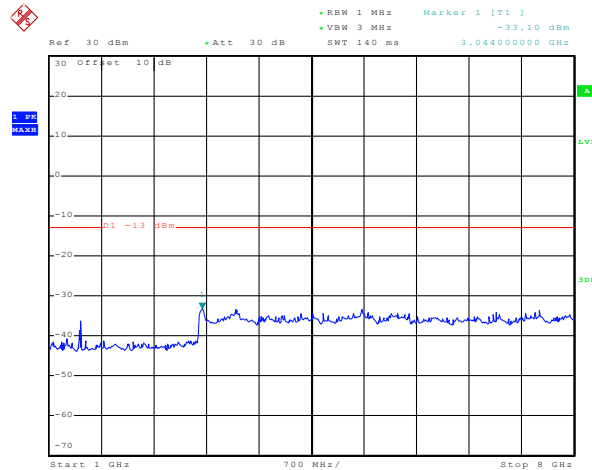
1GHz~8GHz

Test Mode:	LTE band 17(5MHz 16QAM) RB Size 25 & RB Offset 0	Test Channel:	Middle channel
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Date: 10.NOV.2015 08:32:09

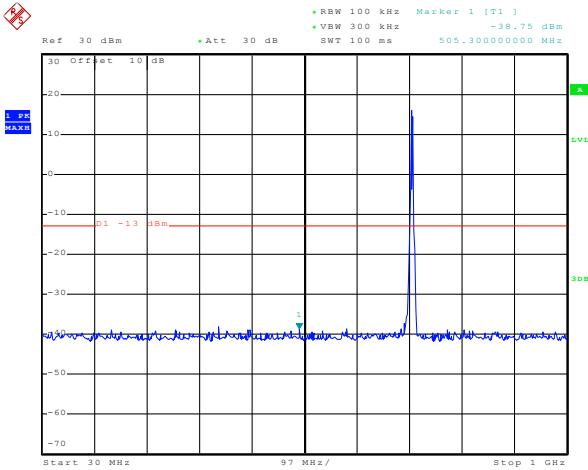
30MHz~1GHz



Date: 10.NOV.2015 08:32:36

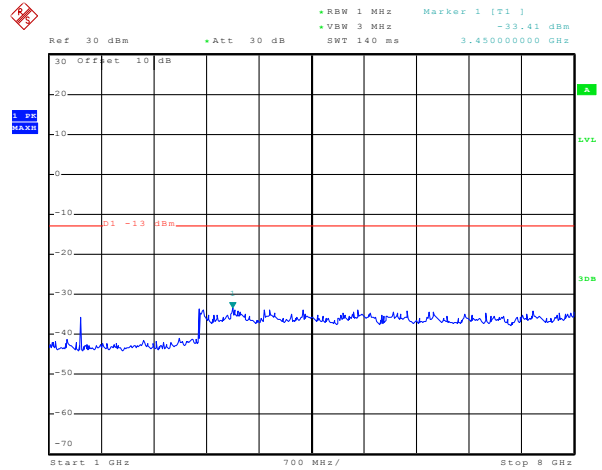
1GHz~8GHz

Test Mode:	LTE band 17(5MHz 16QAM) RB Size 25 & RB Offset 0	Test Channel:	Highest channel
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Date: 10.NOV.2015 07:43:38

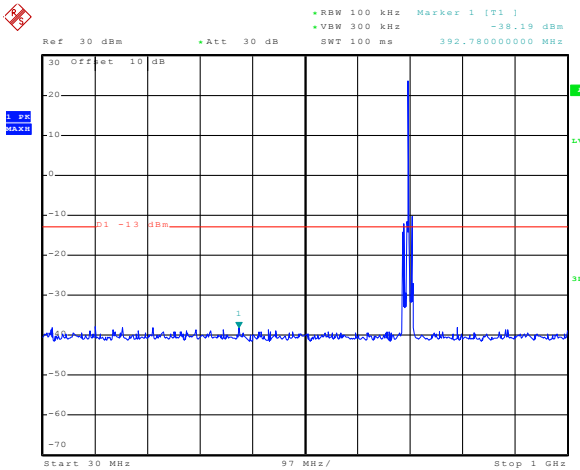
30MHz~1GHz



Date: 10.NOV.2015 08:35:56

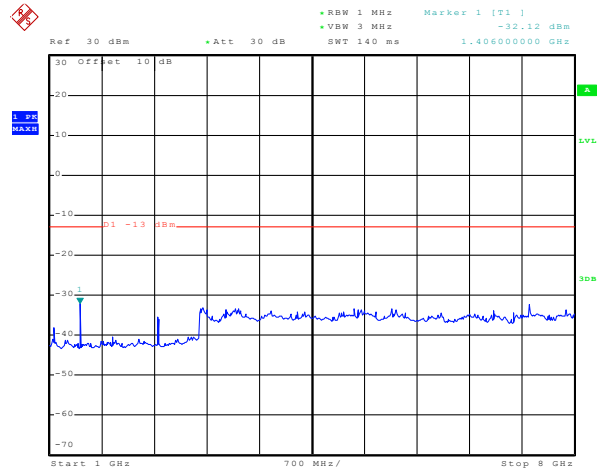
1GHz~8GHz

Test Mode:	LTE band 17(5MHz QPSK) RB Size 1 & RB Offset 0	Test Channel:	Lowest channel
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Date: 10.NOV.2015 08:27:11

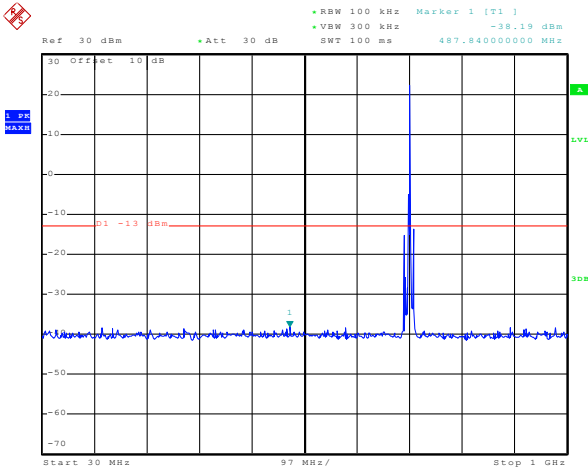
30MHz~1GHz



Date: 10.NOV.2015 08:24:04

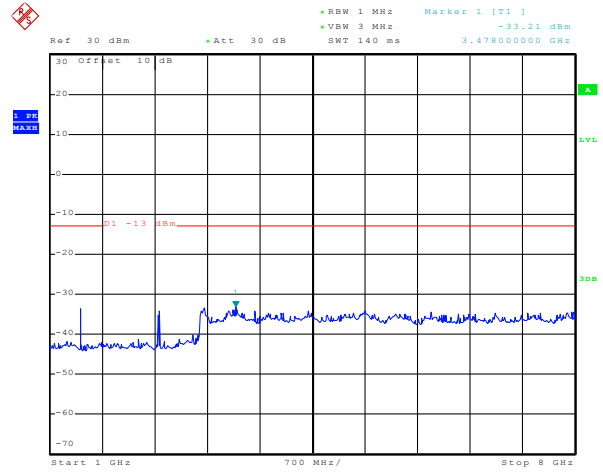
1GHz~8GHz

Test Mode:	LTE band 17(5MHz QPSK) RB Size 1 & RB Offset 0	Test Channel:	Middle channel
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Date: 10.NOV.2015 08:30:26

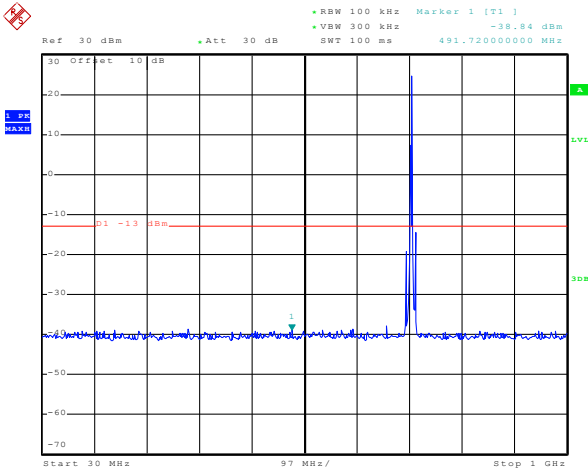
30MHz~1GHz



Date: 10.NOV.2015 08:33:06

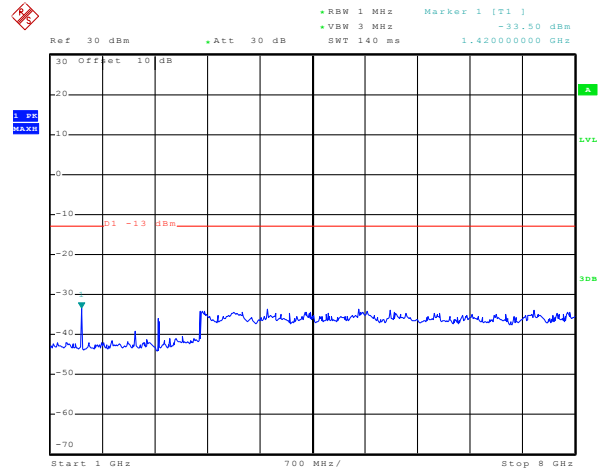
1GHz~8GHz

Test Mode:	LTE band 17(5MHz QPSK) RB Size 1 & RB Offset 0	Test Channel:	Highest channel
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Date: 10.NOV.2015 07:44:15

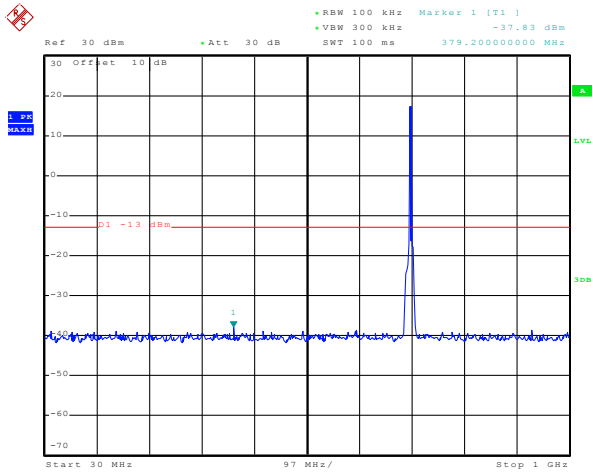
30MHz~1GHz



Date: 10.NOV.2015 08:34:37

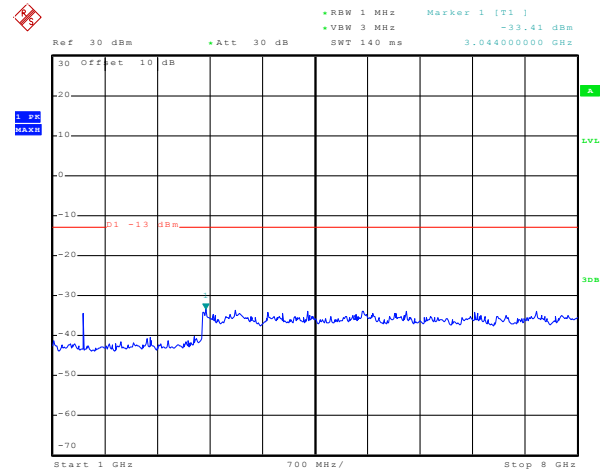
1GHz~8GHz

Test Mode:	LTE band 17(5MHz QPSK) RB Size 12 & RB Offset 0	Test Channel:	Lowest channel
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Date: 10.NOV.2015 08:28:34

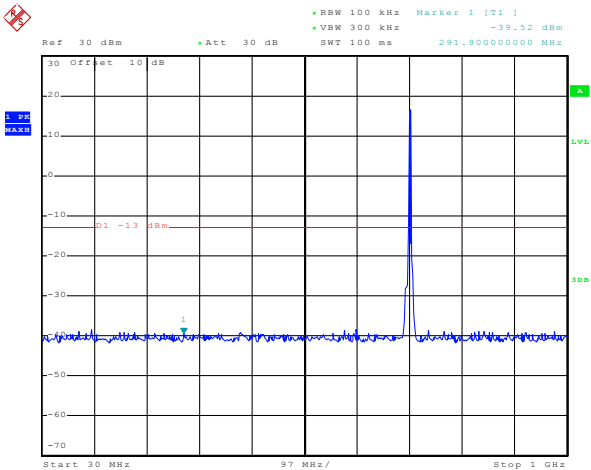
30MHz~1GHz



Date: 10.NOV.2015 08:24:55

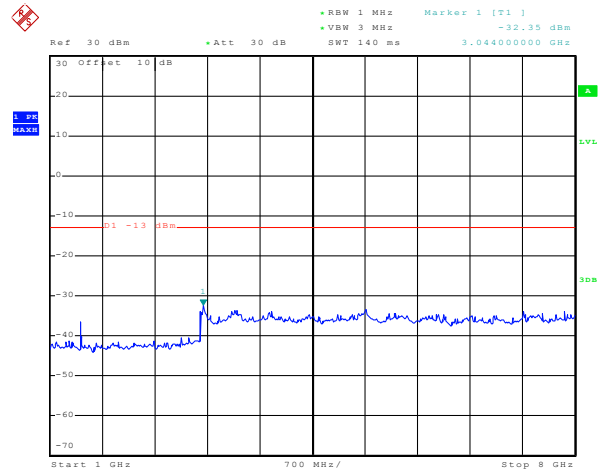
1GHz~8GHz

Test Mode:	LTE band 17(5MHz QPSK) RB Size 12 & RB Offset 0	Test Channel:	Middle channel
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Date: 10.NOV.2015 08:31:35

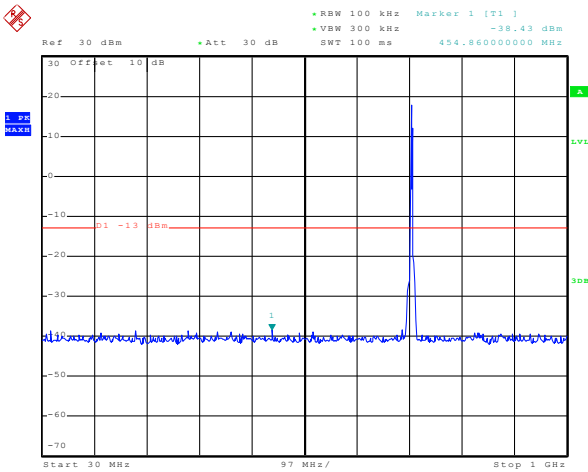
30MHz~1GHz



Date: 10.NOV.2015 08:34:05

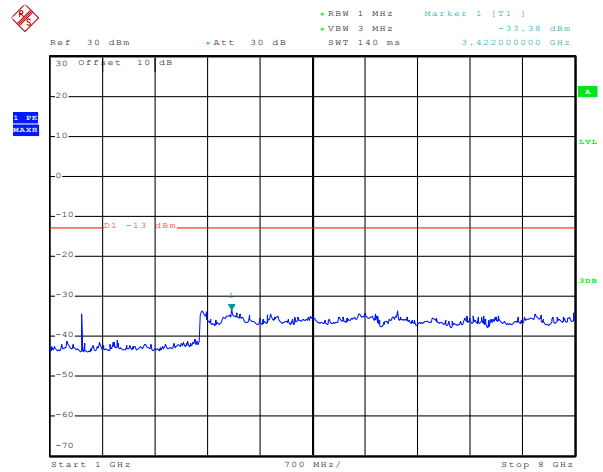
1GHz~8GHz

Test Mode:	LTE band 17(5MHz QPSK) RB Size 12 & RB Offset 0	Test Channel:	Highest channel
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Date: 10.NOV.2015 07:45:29

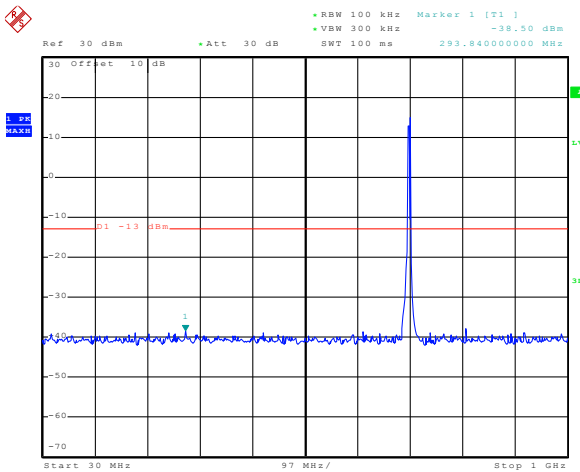
30MHz~1GHz



Date: 10.NOV.2015 08:35:23

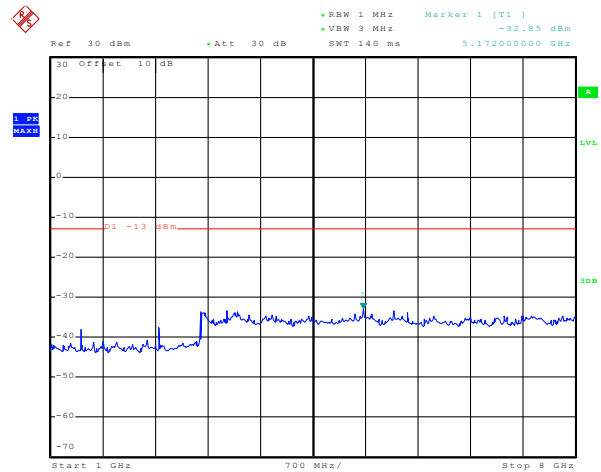
1GHz~8GHz

Test Mode:	LTE band 17(5MHz QPSK) RB Size 25 & RB Offset 0	Test Channel:	Lowest channel
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Date: 10.NOV.2015 08:26:41

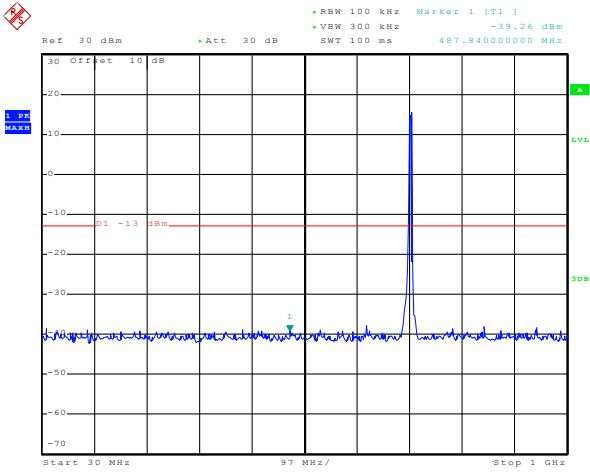
30MHz~1GHz



Date: 10.NOV.2015 08:25:24

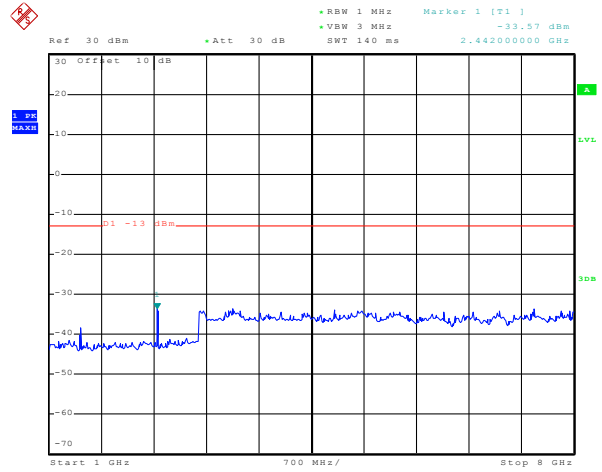
1GHz~8GHz

Test Mode:	LTE band 17(5MHz QPSK) RB Size 25 & RB Offset 0	Test Channel:	Middle channel
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Date: 10.NOV.2015 08:31:53

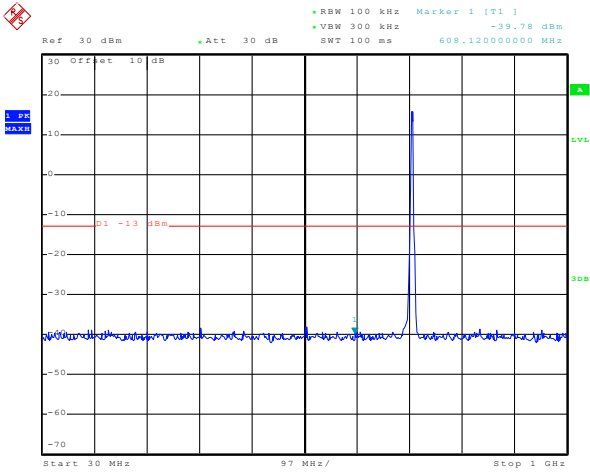
30MHz~1GHz



Date: 10.NOV.2015 08:32:51

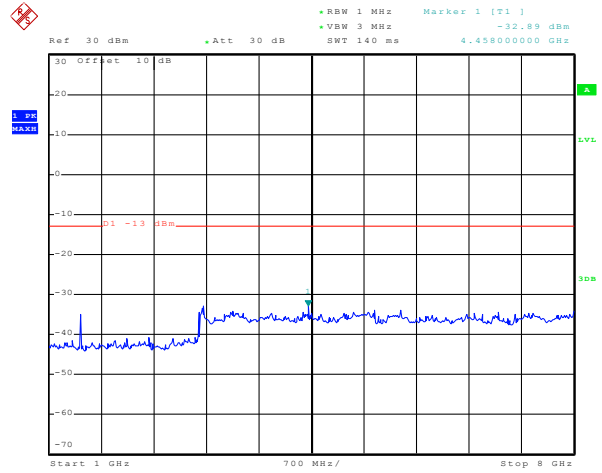
1GHz~8GHz

Test Mode:	LTE band 17(5MHz QPSK) RB Size 25 & RB Offset 0	Test Channel:	Highest channel
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Date: 10.NOV.2015 07:45:54

30MHz~1GHz

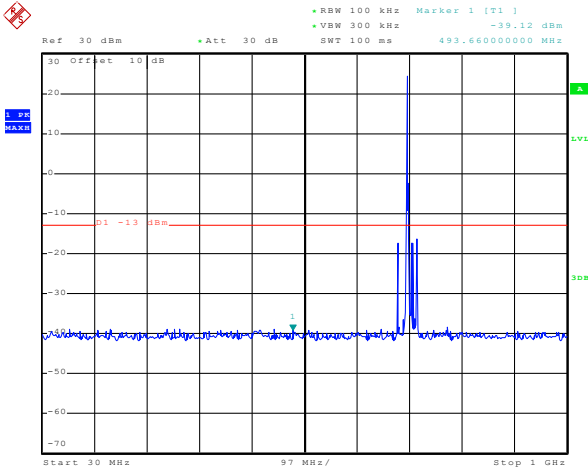


Date: 10.NOV.2015 08:35:42

1GHz~8GHz

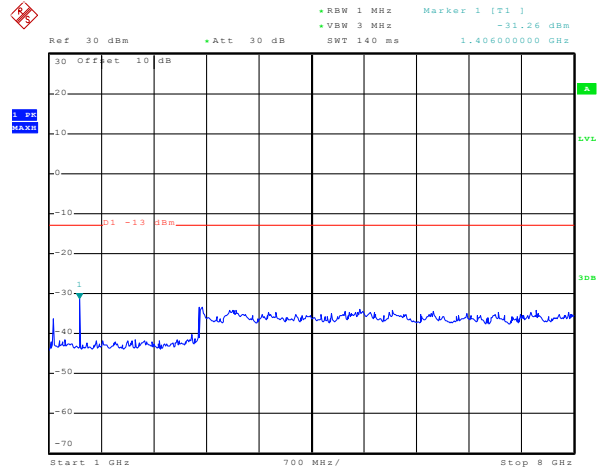
**10MHz:**

Test Mode:	LTE band 17(10MHz 16QAM) RB Size 1 & RB Offset 0	Test Channel:	Lowest channel
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Date: 10.NOV.2015 07:50:30

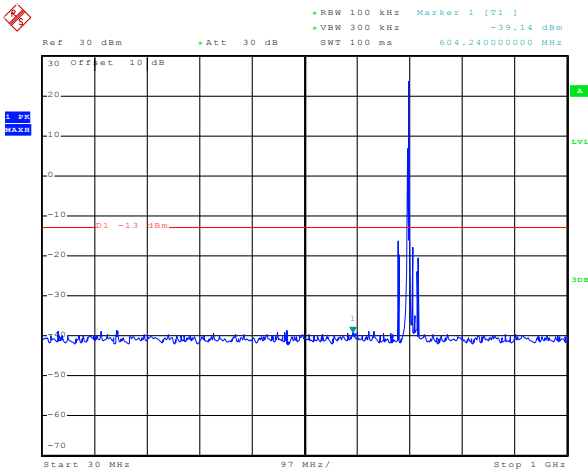
30MHz~1GHz



Date: 10.NOV.2015 07:47:19

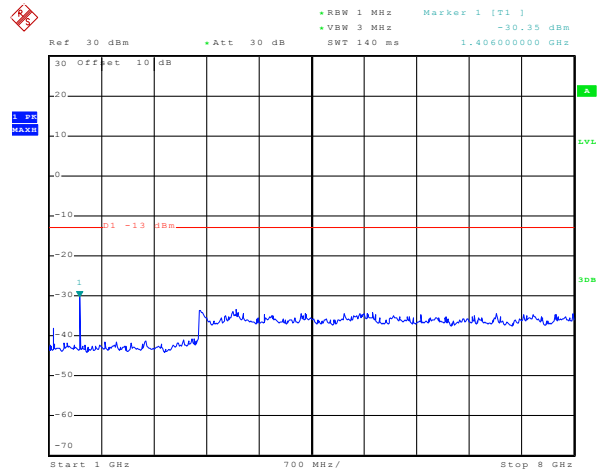
1GHz~8GHz

Test Mode:	LTE band 17(10MHz 16QAM) RB Size 1 & RB Offset 0	Test Channel:	Middle channel
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Date: 10.NOV.2015 07:53:24

30MHz~1GHz

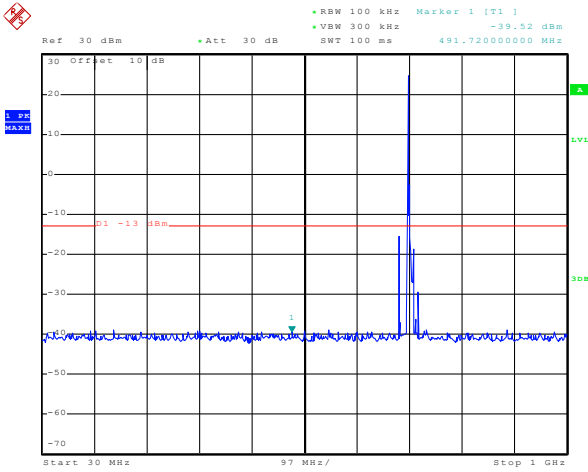


Date: 10.NOV.2015 07:56:32

1GHz~8GHz

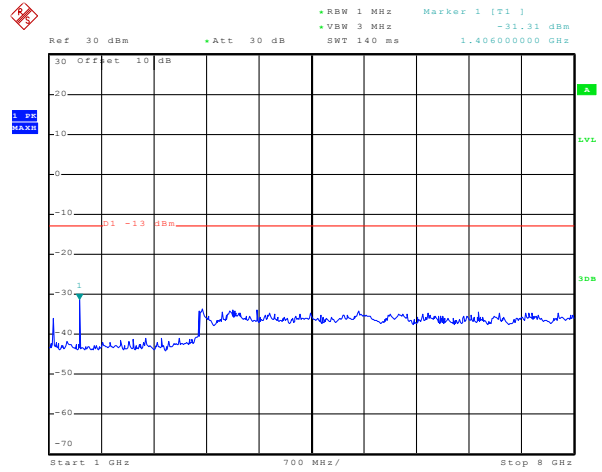


Test Mode:	LTE band 17(10MHz 16QAM) RB Size 1 & RB Offset 0	Test Channel:	Highest channel
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Date: 10.NOV.2015 08:00:46

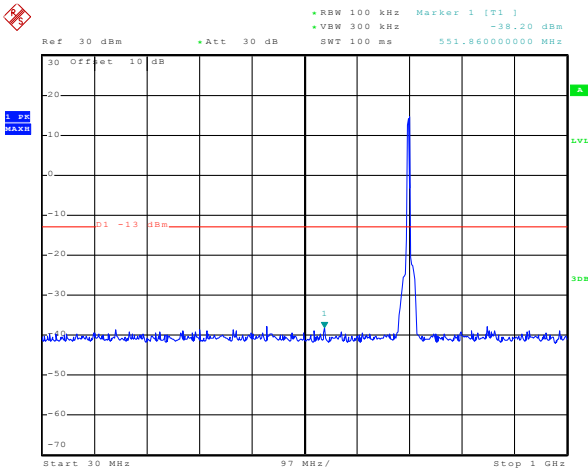
30MHz~1GHz



Date: 10.NOV.2015 07:58:02

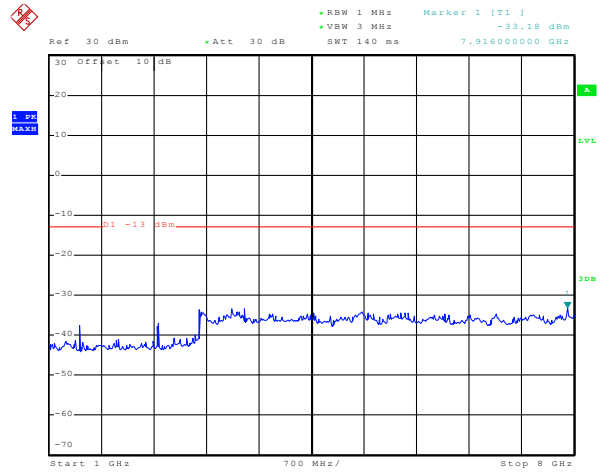
1GHz~8GHz

Test Mode:	LTE band 17(10MHz 16QAM) RB Size 25 & RB Offset 0	Test Channel:	Lowest channel
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Date: 10.NOV.2015 07:52:21

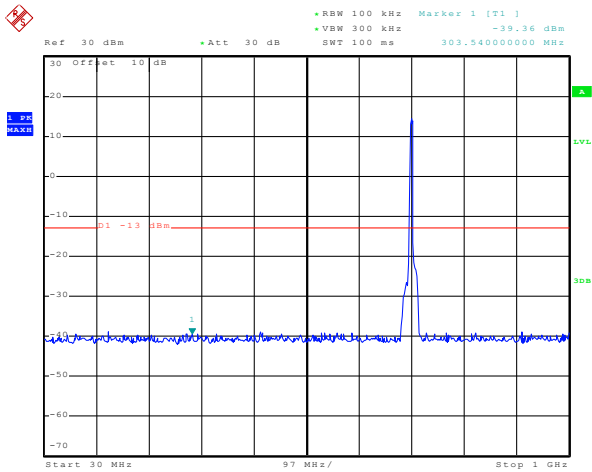
30MHz~1GHz



Date: 10.NOV.2015 07:47:35

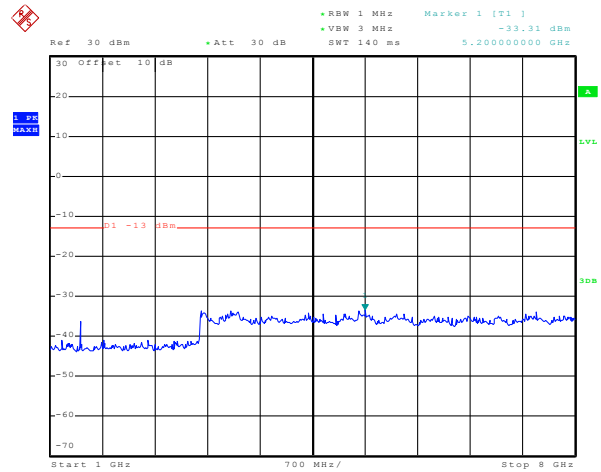
1GHz~8GHz

Test Mode:	LTE band 17(10MHz 16QAM) RB Size 25 & RB Offset 0	Test Channel:	Middle channel
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Date: 10.NOV.2015 07:53:46

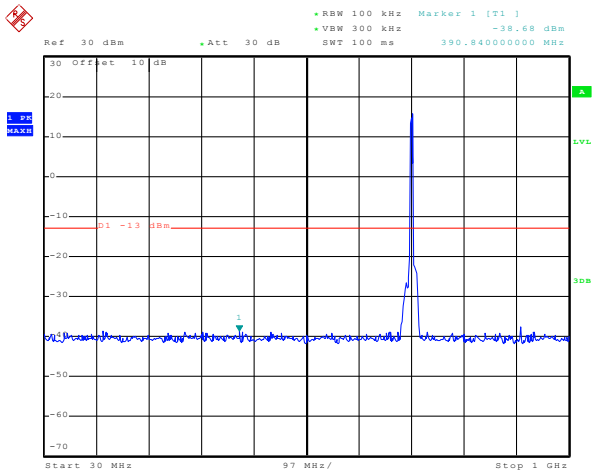
30MHz~1GHz



Date: 10.NOV.2015 07:56:52

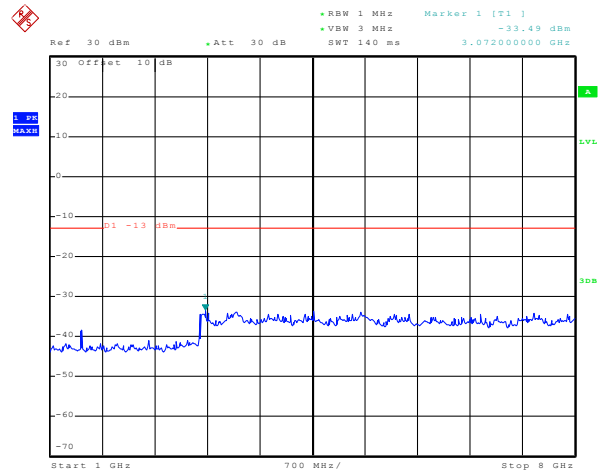
1GHz~8GHz

Test Mode:	LTE band 17(10MHz 16QAM) RB Size 25 & RB Offset 0	Test Channel:	Highest channel
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Date: 10.NOV.2015 08:01:13

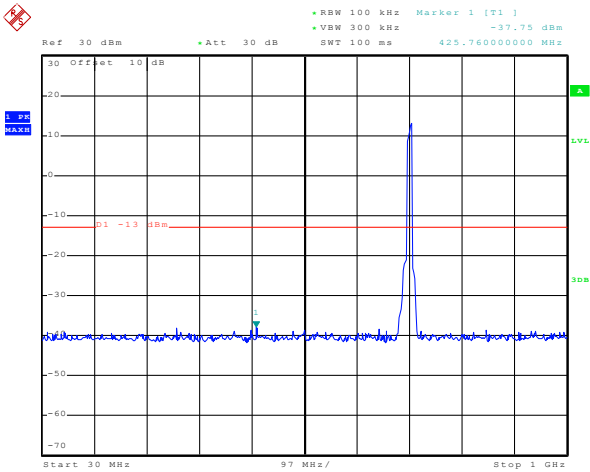
30MHz~1GHz



Date: 10.NOV.2015 07:58:18

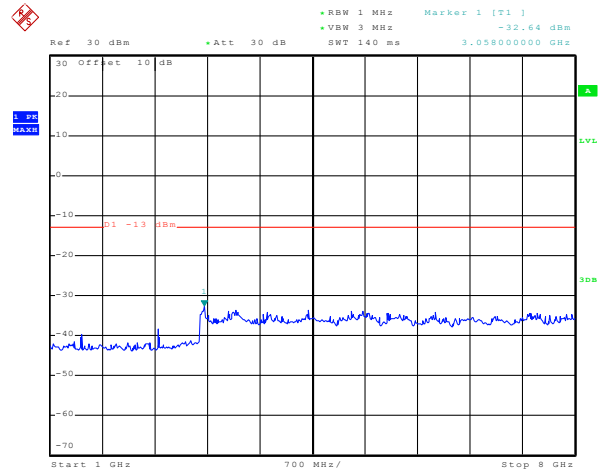
1GHz~8GHz

Test Mode:	LTE band 17(10MHz 16QAM) RB Size 50 & RB Offset 0	Test Channel:	Lowest channel
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Date: 10.NOV.2015 07:49:05

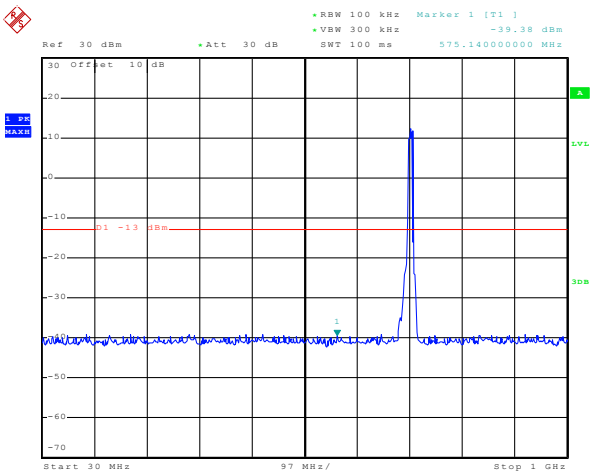
30MHz~1GHz



Date: 10.NOV.2015 07:48:20

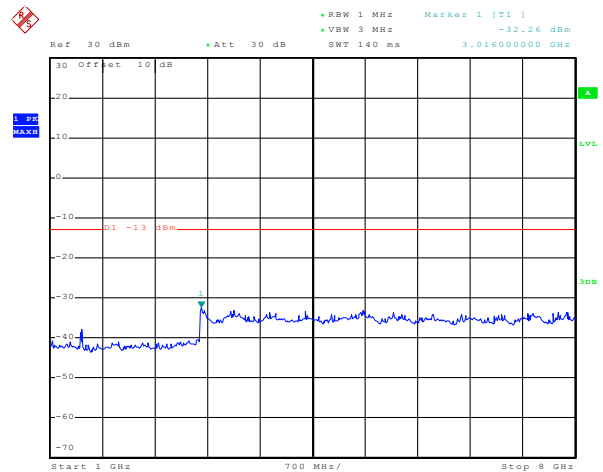
1GHz~8GHz

Test Mode:	LTE band 17(10MHz 16QAM) RB Size 50 & RB Offset 0	Test Channel:	Middle channel
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Date: 10.NOV.2015 07:54:45

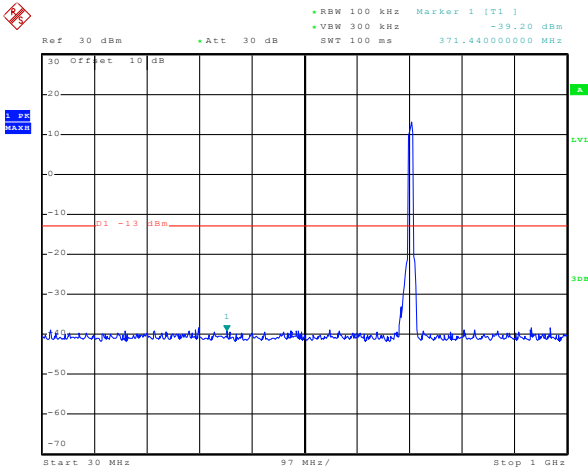
30MHz~1GHz



Date: 10.NOV.2015 07:55:51

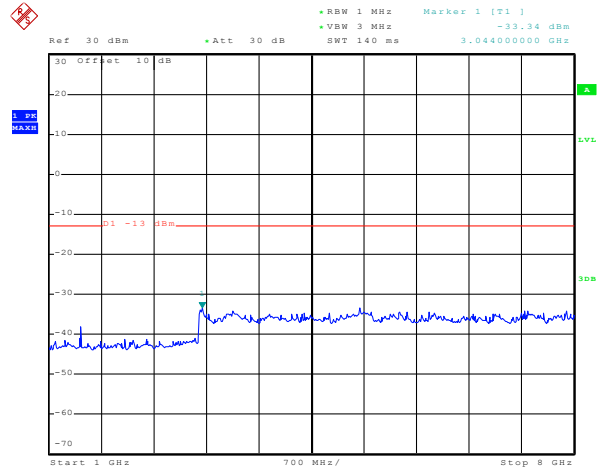
1GHz~8GHz

Test Mode:	LTE band 17(10MHz 16QAM) RB Size 50 & RB Offset 0	Test Channel:	Highest channel
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Date: 10.NOV.2015 07:59:44

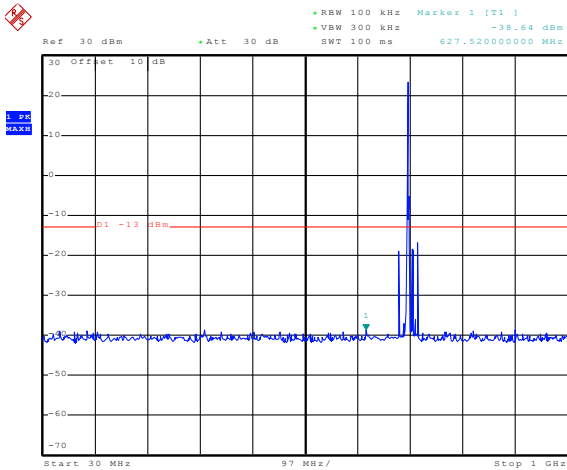
30MHz~1GHz



Date: 10.NOV.2015 07:59:13

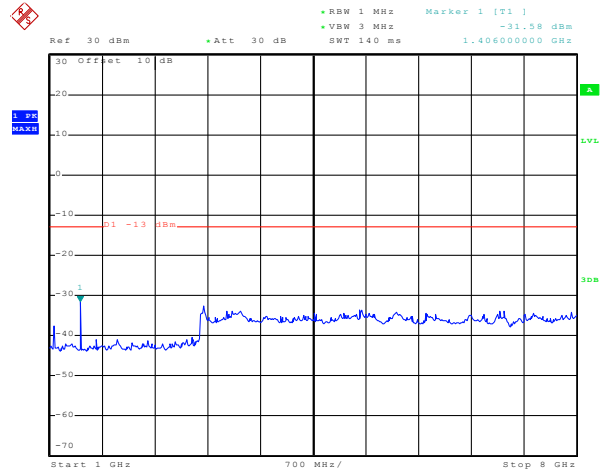
1GHz~8GHz

Test Mode:	LTE band 17(10MHz QPSK) RB Size 1 & RB Offset 0	Test Channel:	Lowest channel
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Date: 10.NOV.2015 07:50:04

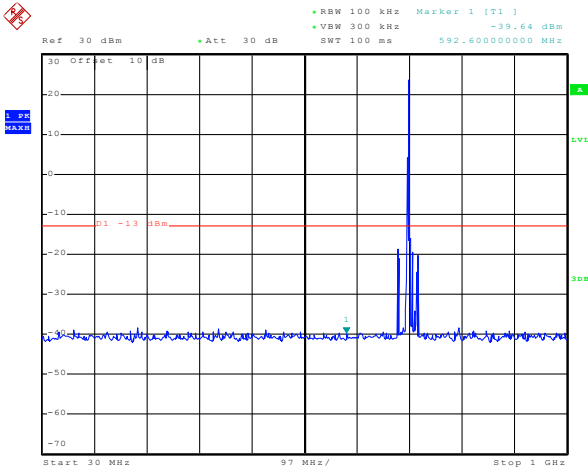
30MHz~1GHz



Date: 10.NOV.2015 07:47:04

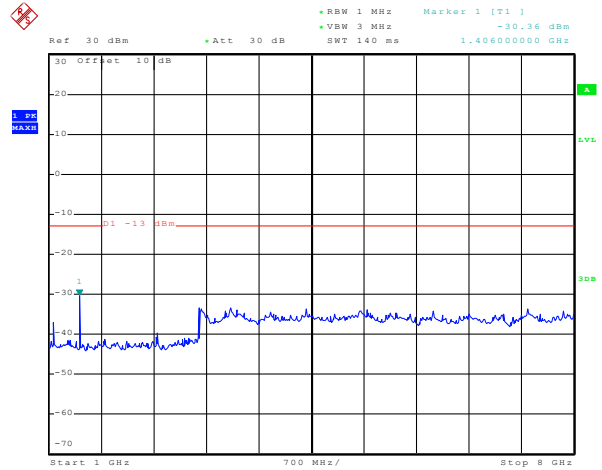
1GHz~8GHz

Test Mode:	LTE band 17(10MHz QPSK) RB Size 1 & RB Offset 0	Test Channel:	Middle channel
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Date: 10.NOV.2015 07:53:07

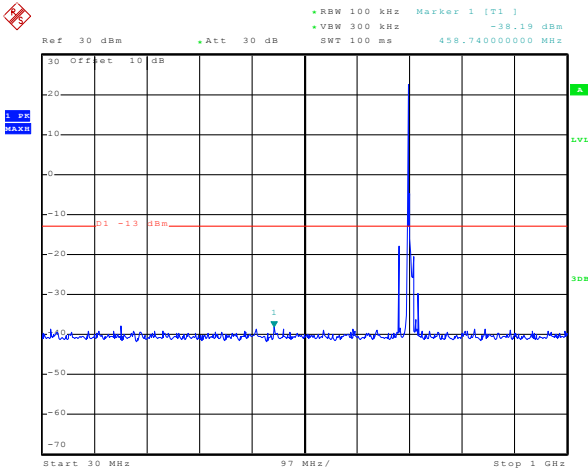
30MHz~1GHz



Date: 10.NOV.2015 07:56:19

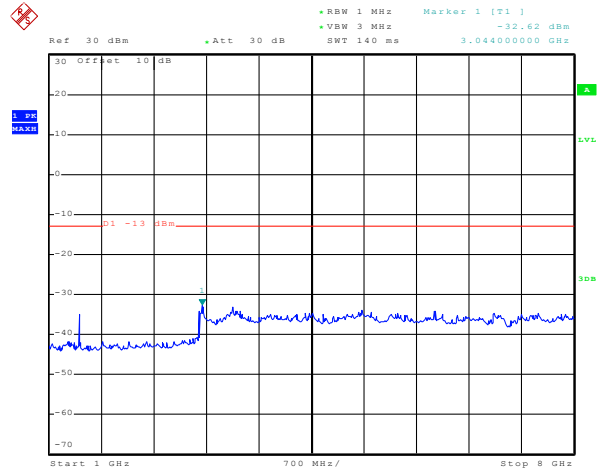
1GHz~8GHz

Test Mode:	LTE band 17(10MHz QPSK) RB Size 1 & RB Offset 0	Test Channel:	Highest channel
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Date: 10.NOV.2015 08:00:28

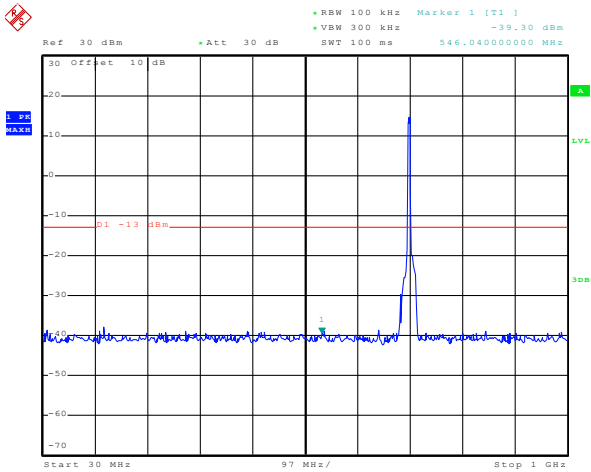
30MHz~1GHz



Date: 10.NOV.2015 07:57:46

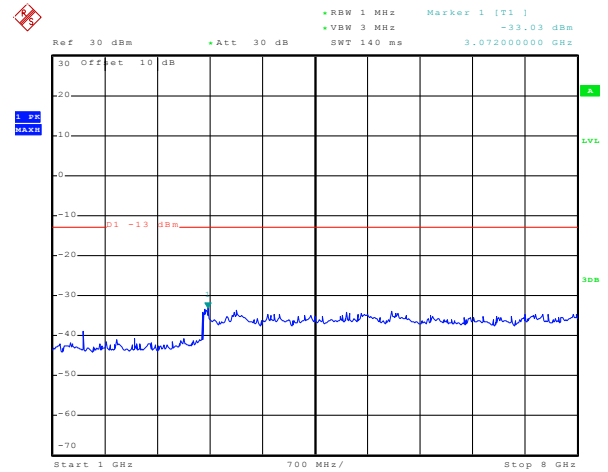
1GHz~8GHz

Test Mode:	LTE band 17(10MHz QPSK) RB Size 25 & RB Offset 0	Test Channel:	Lowest channel
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Date: 10.NOV.2015 07:52:40

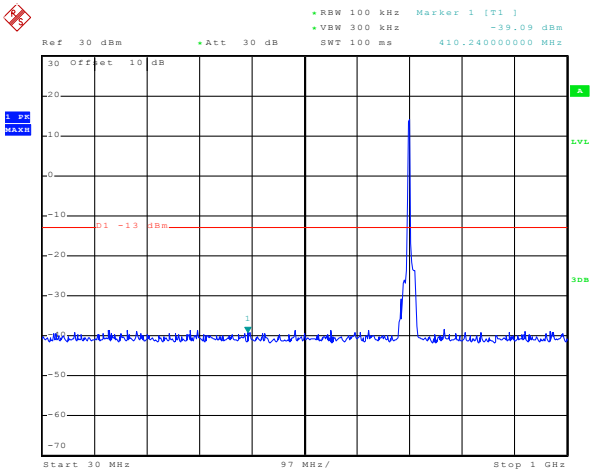
30MHz~1GHz



Date: 10.NOV.2015 07:47:53

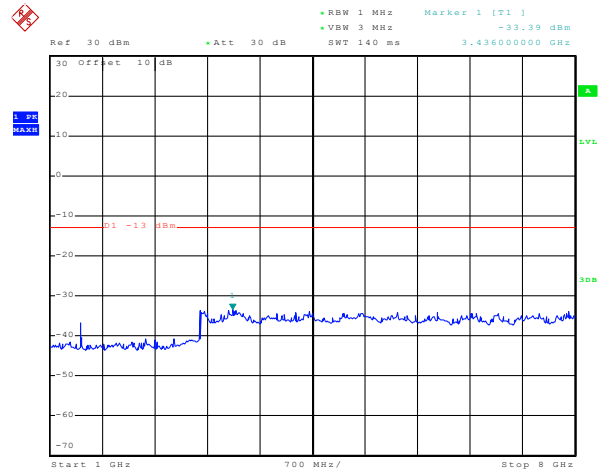
1GHz~8GHz

Test Mode:	LTE band 17(10MHz QPSK) RB Size 25 & RB Offset 0	Test Channel:	Middle channel
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Date: 10.NOV.2015 07:54:09

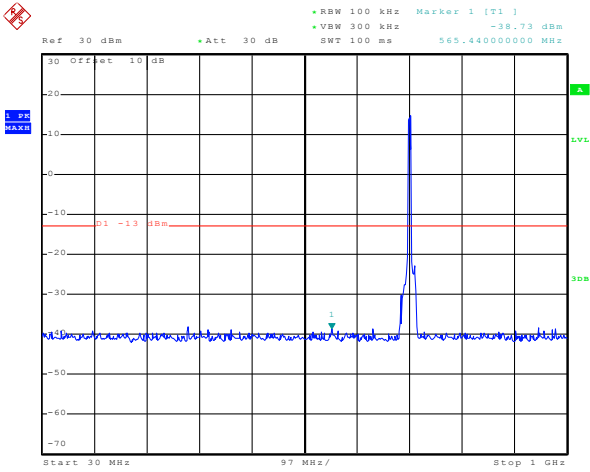
30MHz~1GHz



Date: 10.NOV.2015 07:57:17

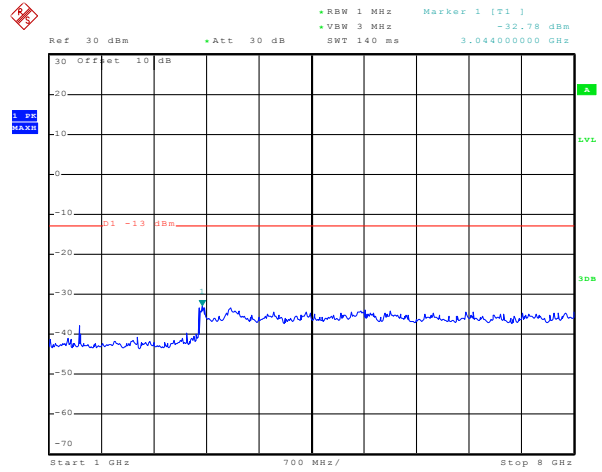
1GHz~8GHz

Test Mode:	LTE band 17(10MHz QPSK) RB Size 25 & RB Offset 0	Test Channel:	Highest channel
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Date: 10.NOV.2015 08:01:34

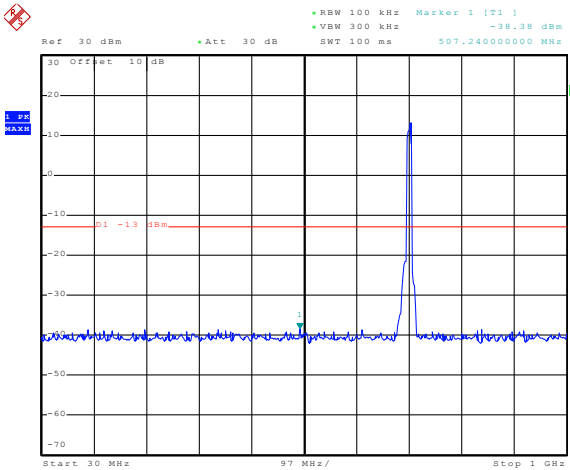
30MHz~1GHz



Date: 10.NOV.2015 07:58:42

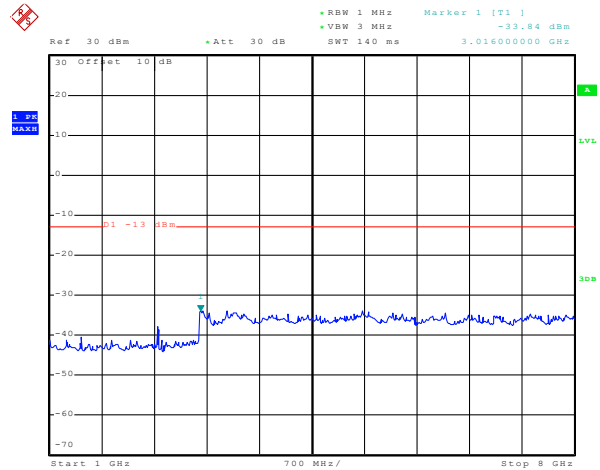
1GHz~8GHz

Test Mode:	LTE band 17(10MHz QPSK) RB Size 50 & RB Offset 0	Test Channel:	Lowest channel
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Date: 10.NOV.2015 07:49:43

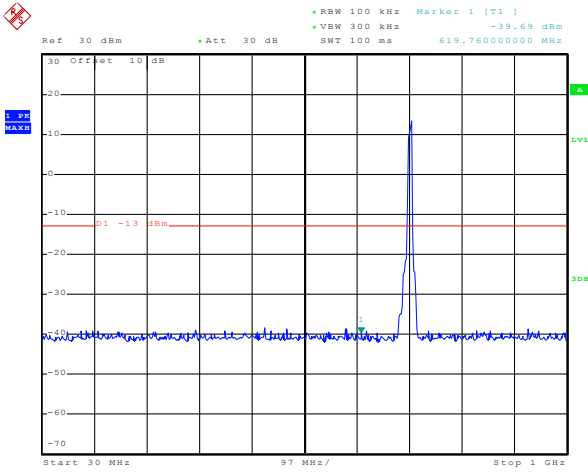
30MHz~1GHz



Date: 10.NOV.2015 07:48:07

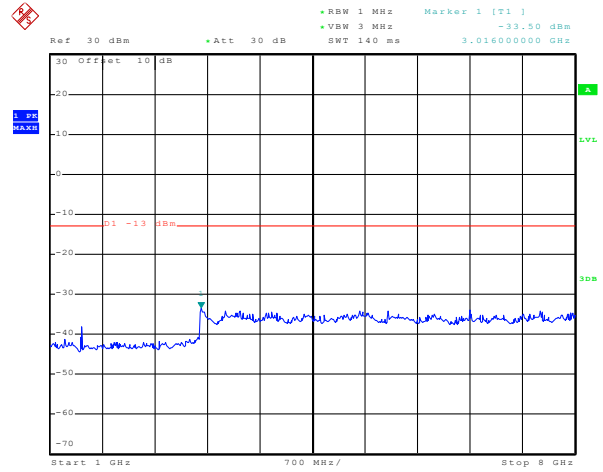
1GHz~8GHz

Test Mode:	LTE band 17(10MHz QPSK) RB Size 50 & RB Offset 0	Test Channel:	Middle channel
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Date: 10.NOV.2015 07:54:28

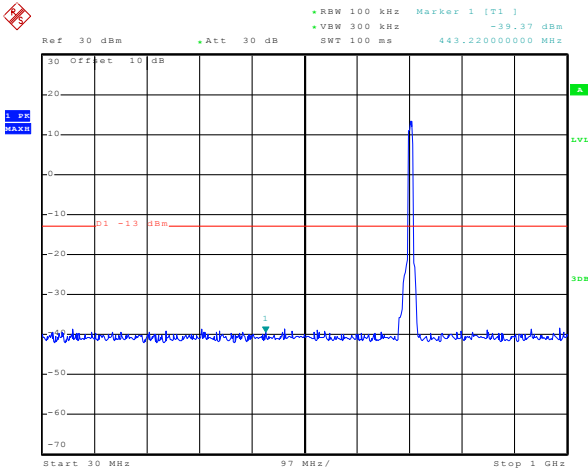
30MHz~1GHz



Date: 10.NOV.2015 07:56:04

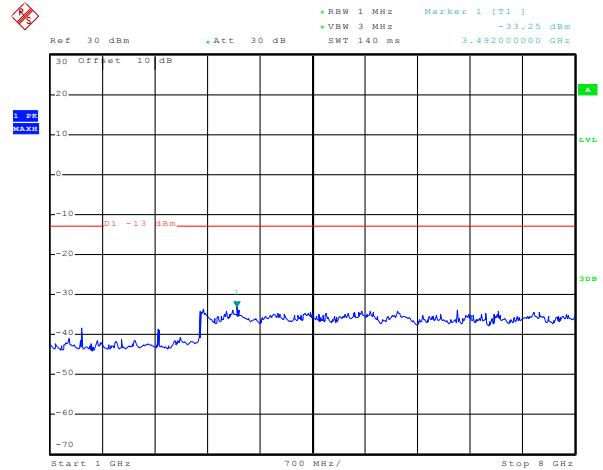
1GHz~8GHz

Test Mode:	LTE band 17(10MHz QPSK) RB Size 50 & RB Offset 0	Test Channel:	Highest channel
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Date: 10.NOV.2015 08:00:01

30MHz~1GHz



Date: 10.NOV.2015 07:58:59

1GHz~8GHz

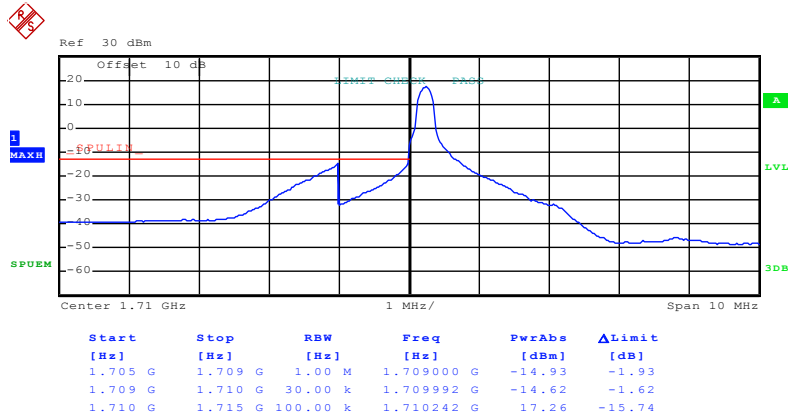


**Band edge emission:**

**LTE band 4 part:**

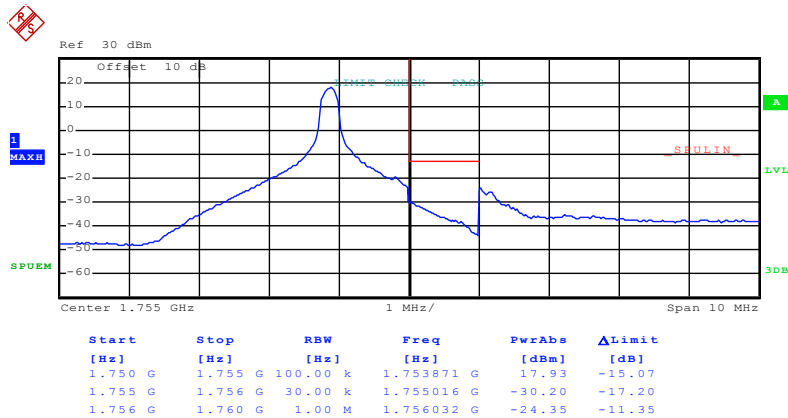
**1.4MHz:**

Test Mode:	LTE band 4(QPSK RB Size 1 & RB Offset 0)
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Date: 11.NOV.2015 01:49:39

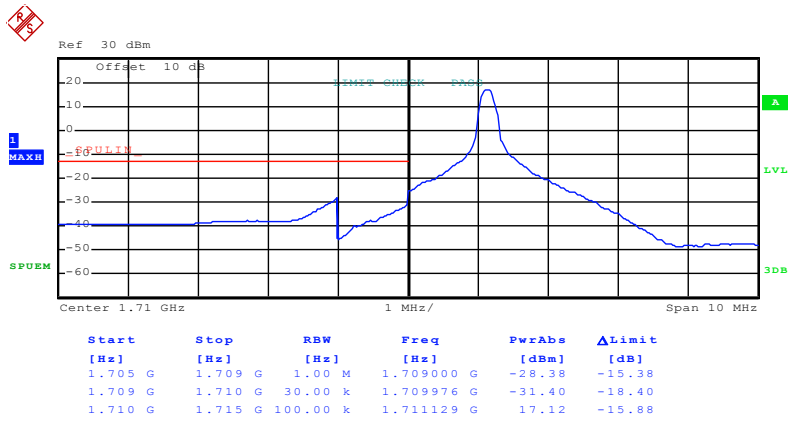
**Lowest channel**



Date: 11.NOV.2015 01:54:52

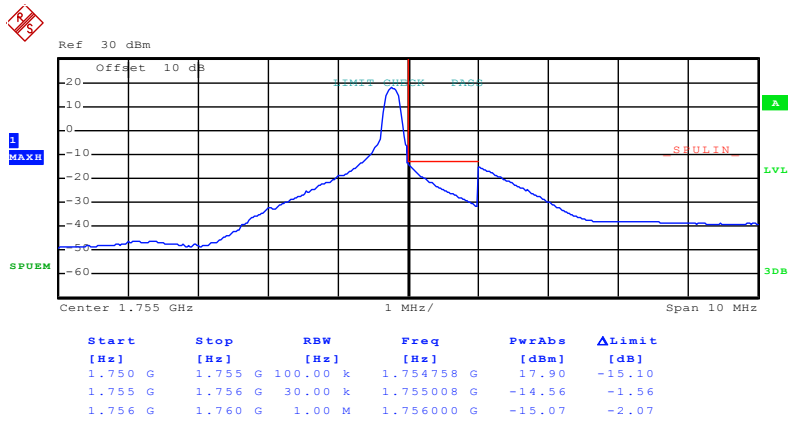
**Highest channel**

Test Mode: LTE band 4(QPSK RB Size 1 & RB Offset 5)



Date: 11.NOV.2015 01:51:33

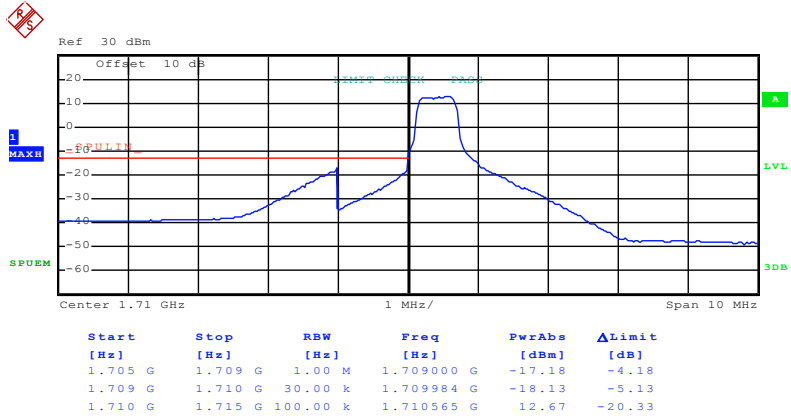
Lowest channel



Date: 11.NOV.2015 01:56:44

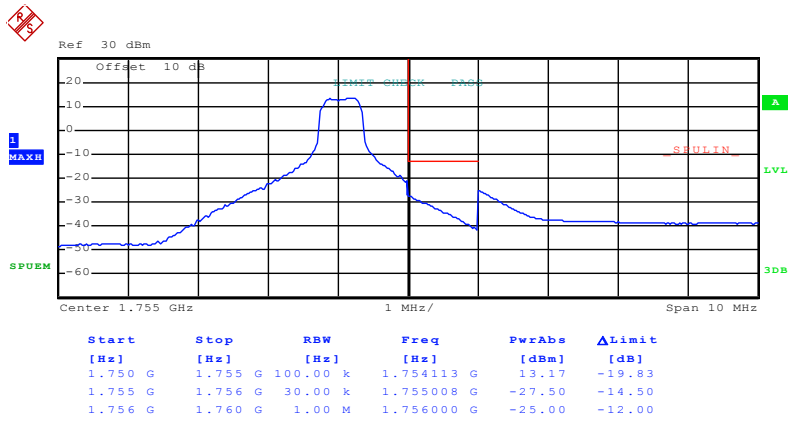
Highest channel

Test Mode:	LTE band 4(QPSK RB Size 3 & RB Offset 0)
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Date: 11.NOV.2015 01:51:54

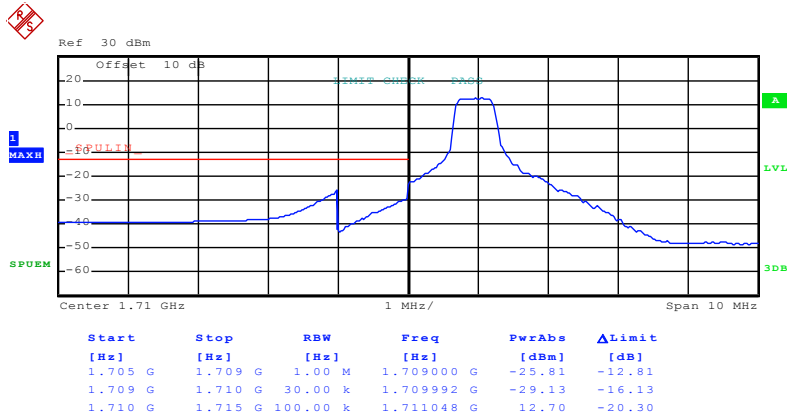
### Lowest channel



Date: 11.NOV.2015 01:57:03

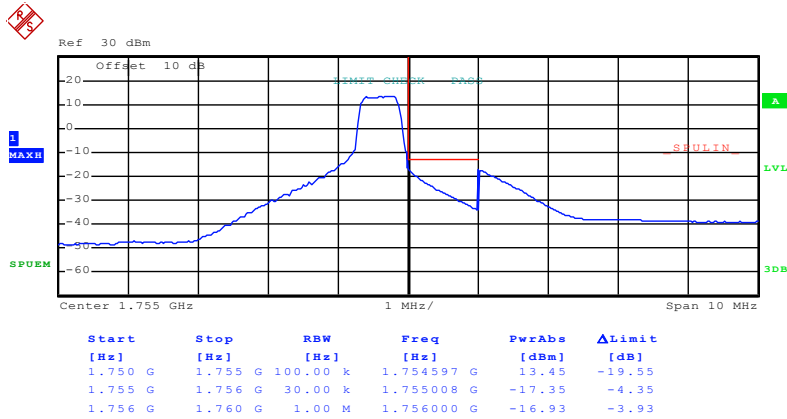
### Highest channel

Test Mode: LTE band 4(QPSK RB Size 3 & RB Offset 2)



Date: 11.NOV.2015 01:52:53

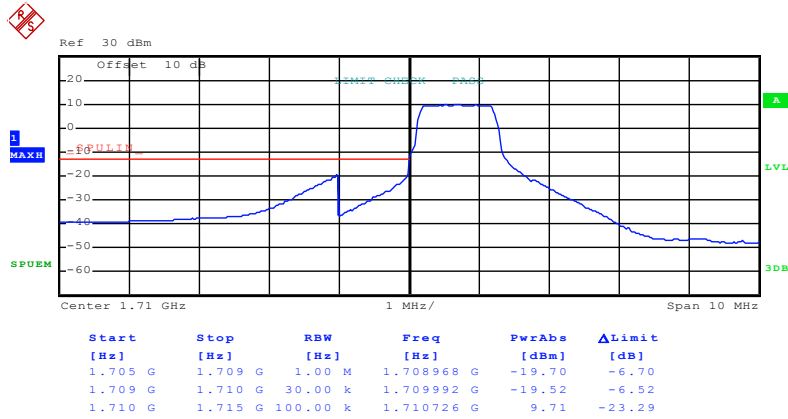
Lowest channel



Date: 11.NOV.2015 01:57:53

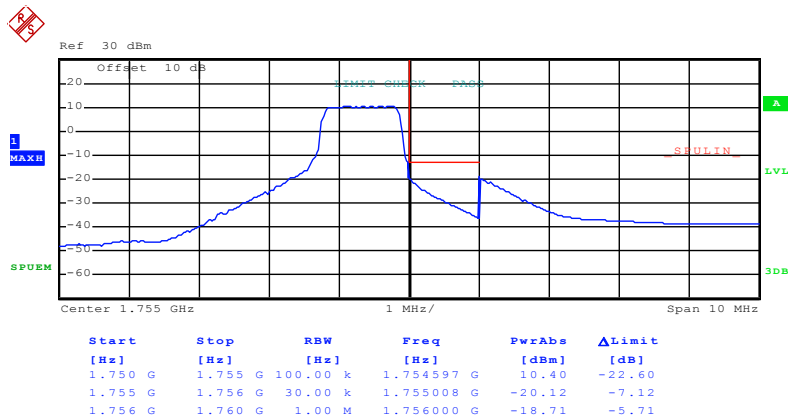
Highest channel

Test Mode: LTE band 4(QPSK RB Size 6 & RB Offset 0)



Date: 11.NOV.2015 01:53:29

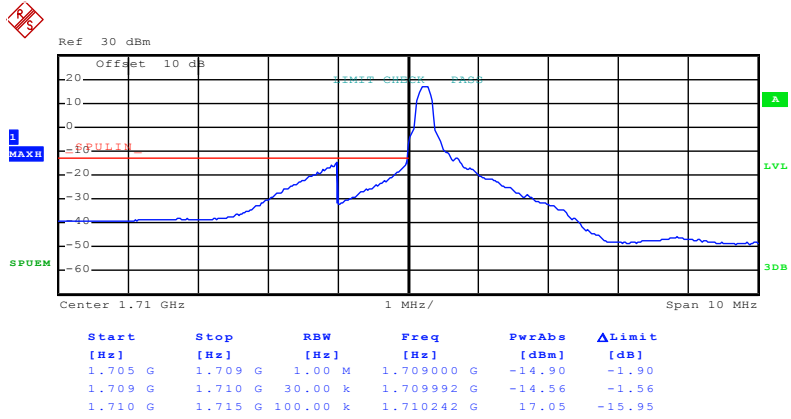
Lowest channel



Date: 11.NOV.2015 01:58:08

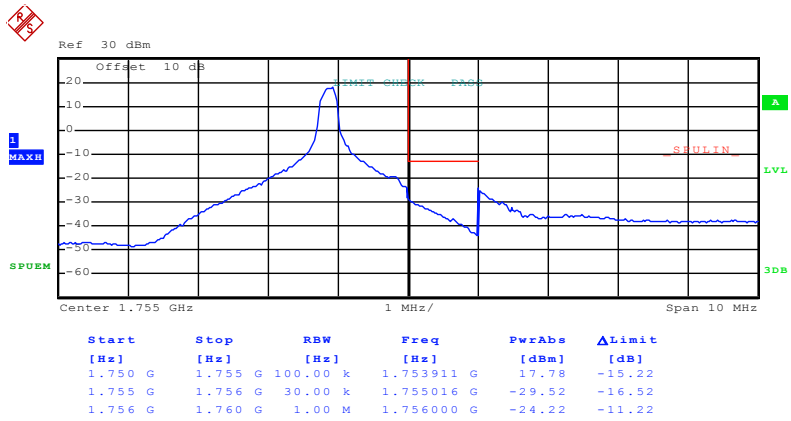
Highest channel

Test Mode:	LTE band 4(16QAM RB Size 1 & RB Offset 0)
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Date: 11.NOV.2015 01:50:58

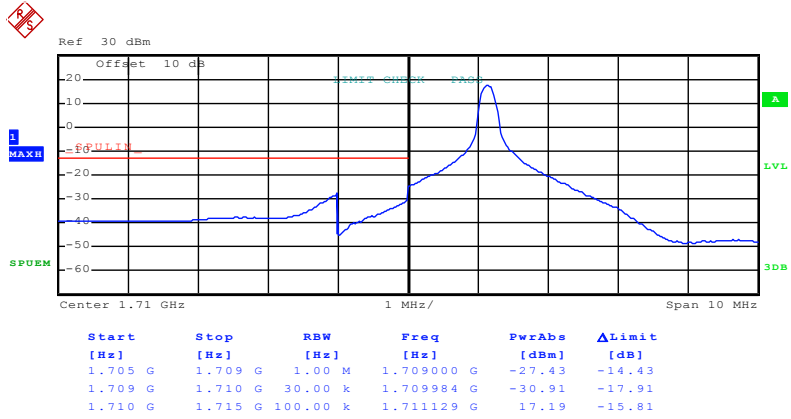
### Lowest channel



Date: 11.NOV.2015 01:55:13

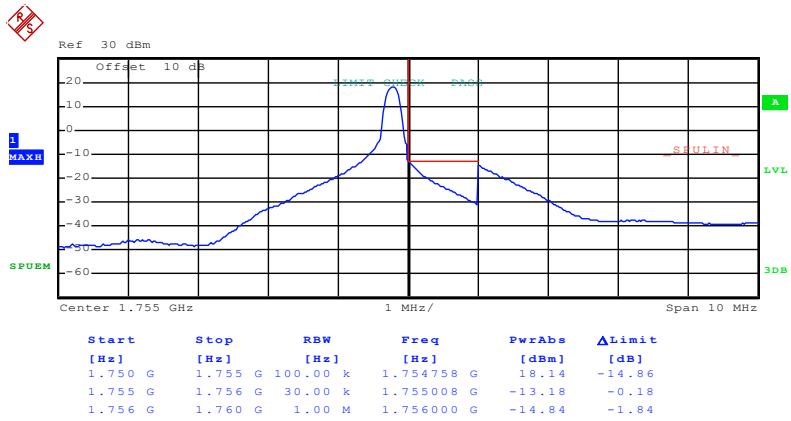
### Highest channel

Test Mode: LTE band 4(16QAM RB Size 1 & RB Offset 5)



Date: 11.NOV.2015 01:51:17

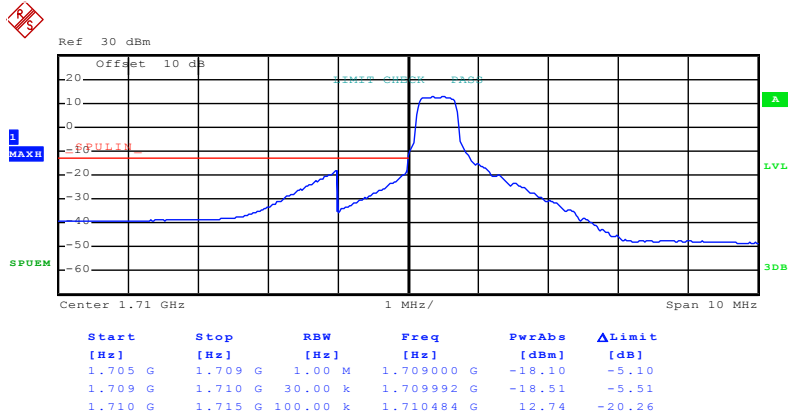
### Lowest channel



Date: 11.NOV.2015 01:56:28

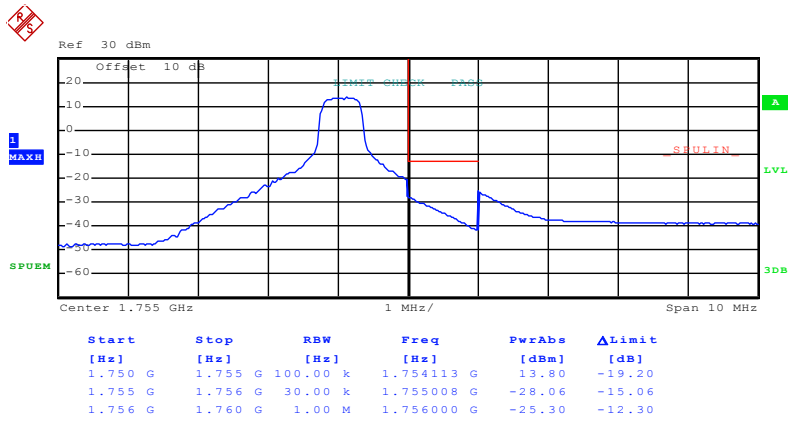
### Highest channel

Test Mode: LTE band 4(16QAM RB Size 3 & RB Offset 0)



Date: 11.NOV.2015 01:52:21

Lowest channel

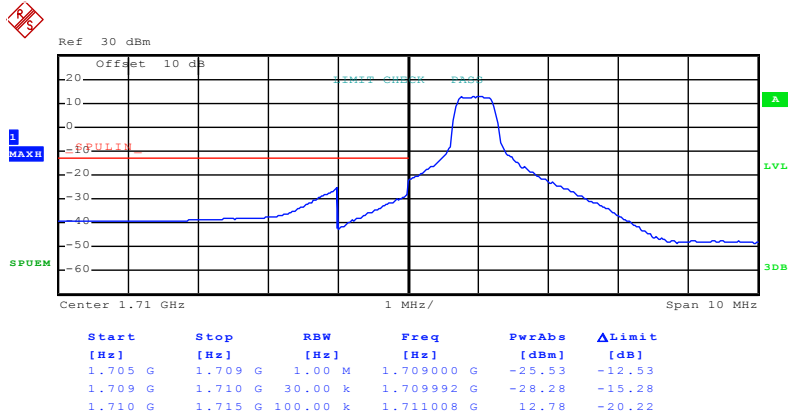


Date: 11.NOV.2015 01:57:22

Highest channel

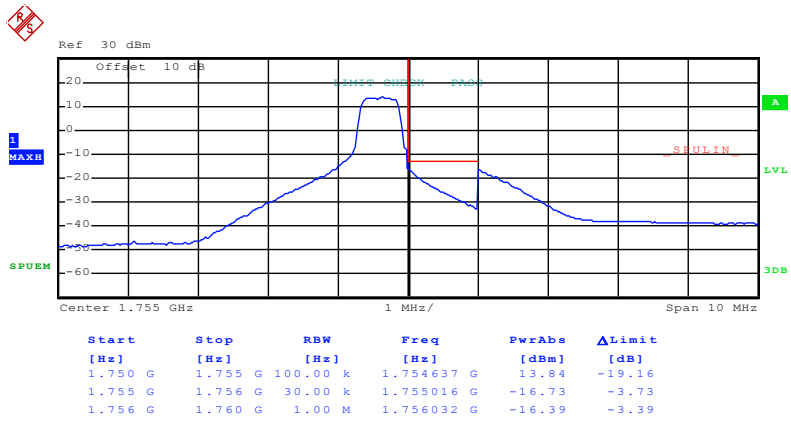


Test Mode: LTE band 4(16QAM RB Size 3 & RB Offset 2)



Date: 11.NOV.2015 01:52:37

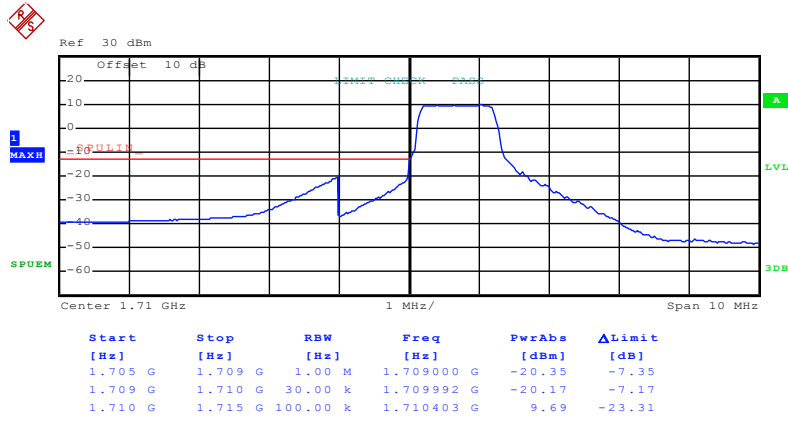
Lowest channel



Date: 11.NOV.2015 01:57:38

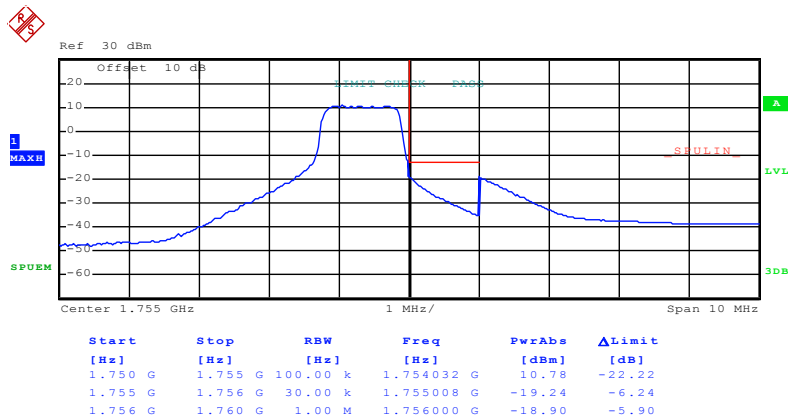
Highest channel

Test Mode: LTE band 4(16QAM RB Size 6 & RB Offset 0)



Date: 11.NOV.2015 01:53:42

Lowest channel

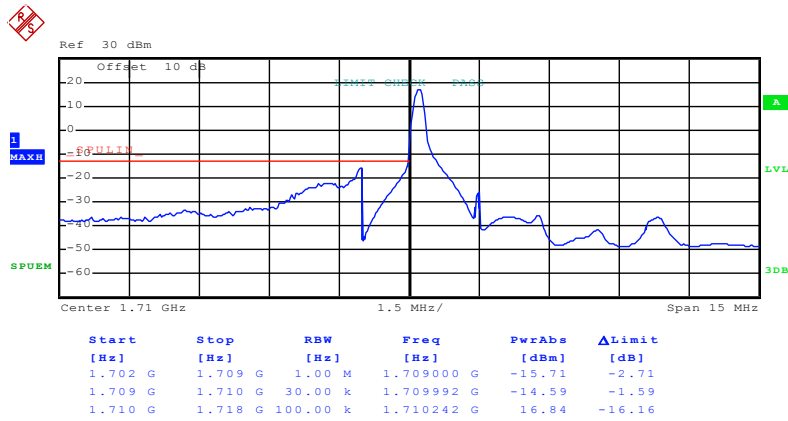


Date: 11.NOV.2015 01:58:21

Highest channel

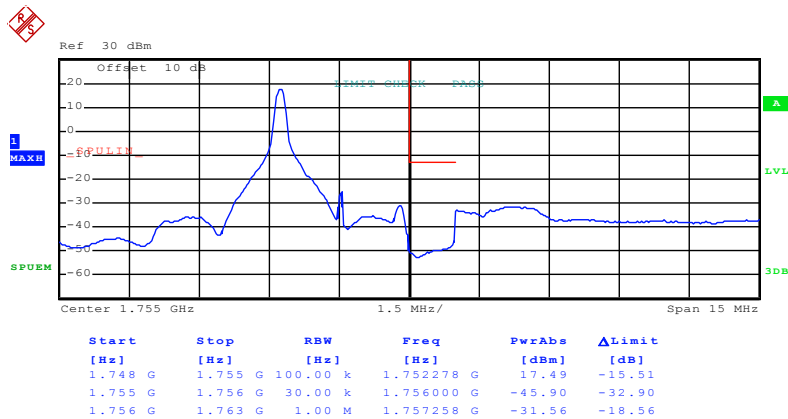
3MHz:

Test Mode:	LTE band 4(QPSK RB Size 1 & RB Offset 0)
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Date: 11.NOV.2015 02:01:15

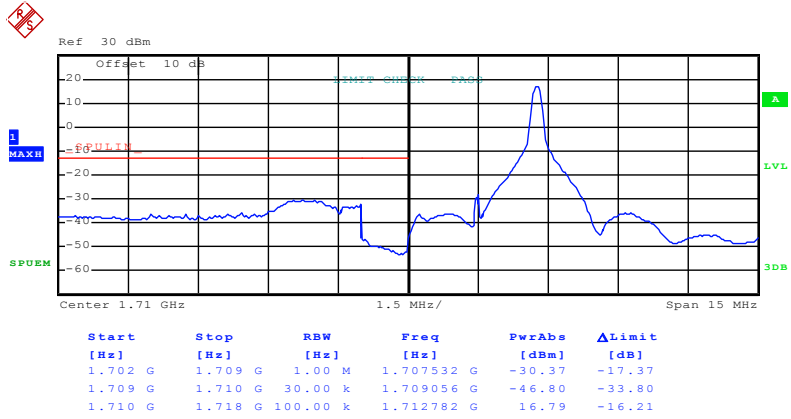
Lowest channel



Date: 11.NOV.2015 02:06:11

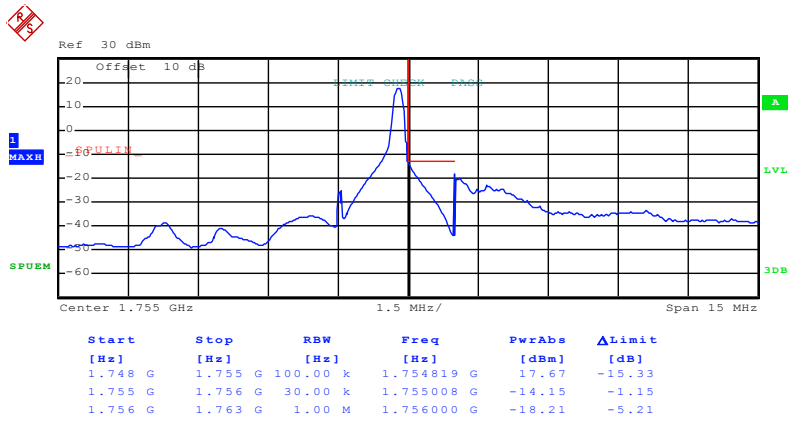
Highest channel

Test Mode:	LTE band 4(QPSK RB Size 1 & RB Offset 14)
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Date: 11.NOV.2015 02:02:10

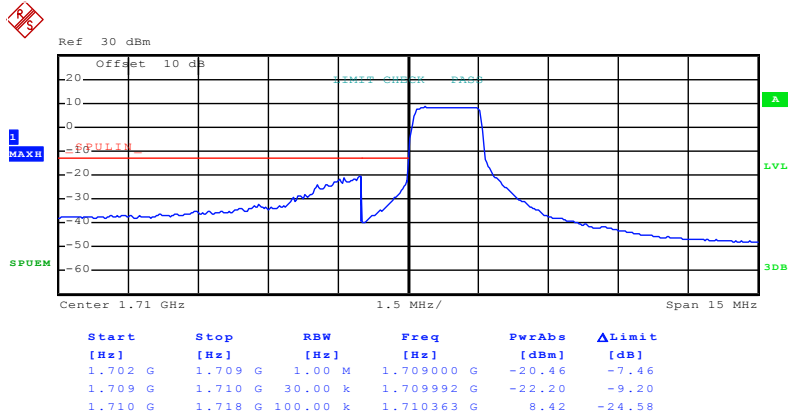
### Lowest channel



Date: 11.NOV.2015 02:07:54

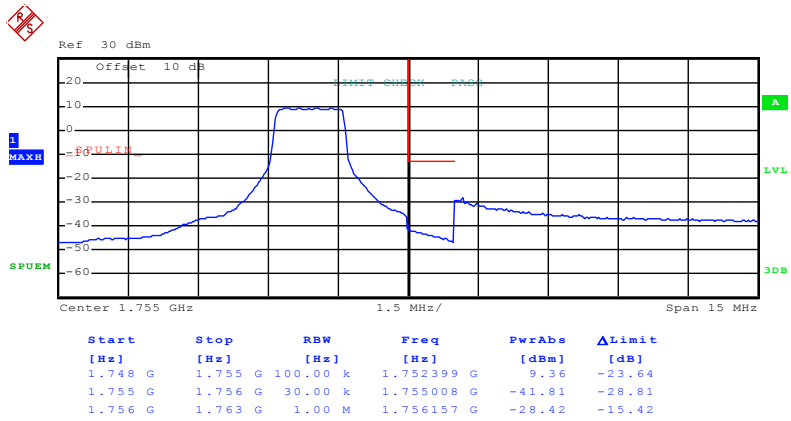
### Highest channel

Test Mode:	LTE band 4(QPSK RB Size 8 & RB Offset 0)
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Date: 11.NOV.2015 02:03:01

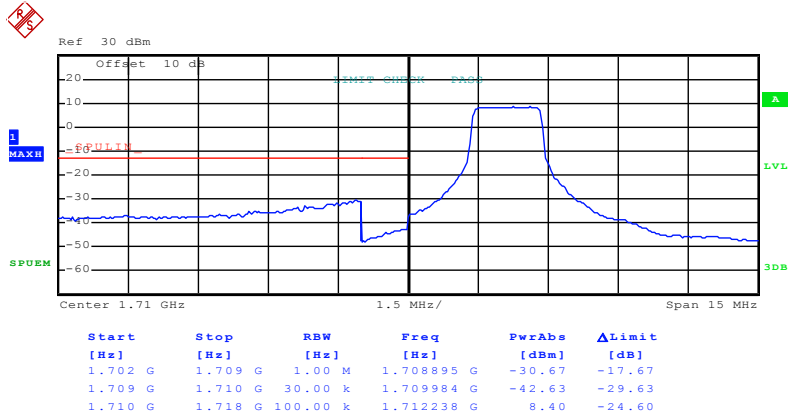
### Lowest channel



Date: 11.NOV.2015 02:09:44

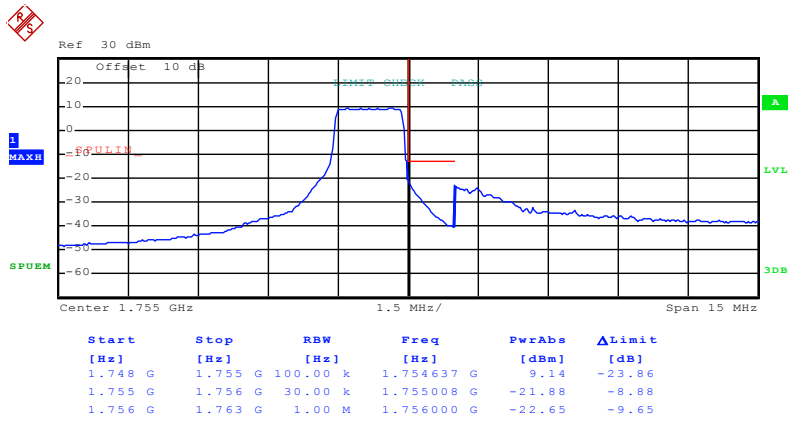
### Highest channel

Test Mode:	LTE band 4(QPSK RB Size 8 & RB Offset 7)
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Date: 11.NOV.2015 02:03:44

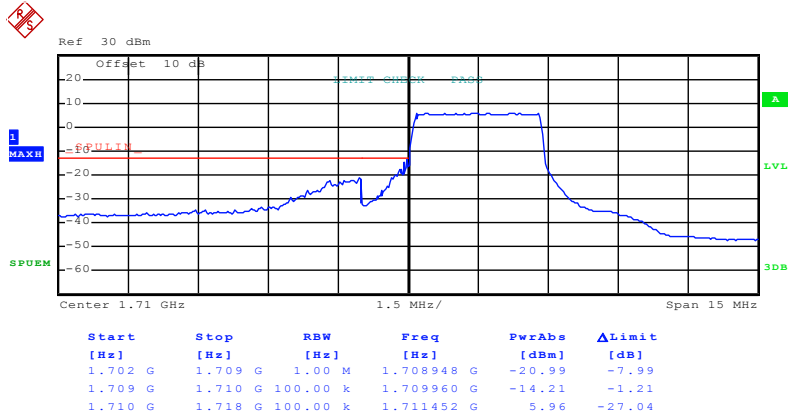
### Lowest channel



Date: 11.NOV.2015 02:10:56

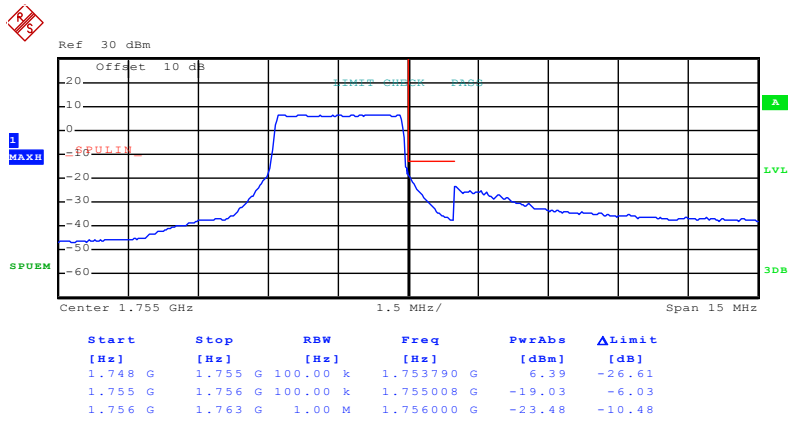
### Highest channel

Test Mode:	LTE band 4(QPSK RB Size 15 & RB Offset 0)
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Date: 11.NOV.2015 02:04:14

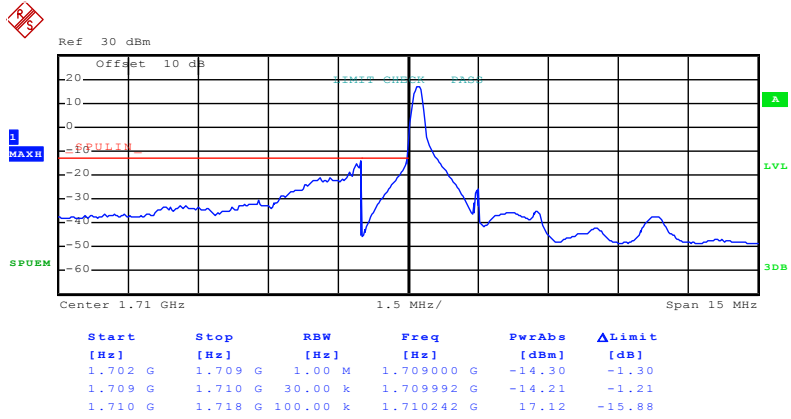
### Lowest channel



Date: 11.NOV.2015 02:11:33

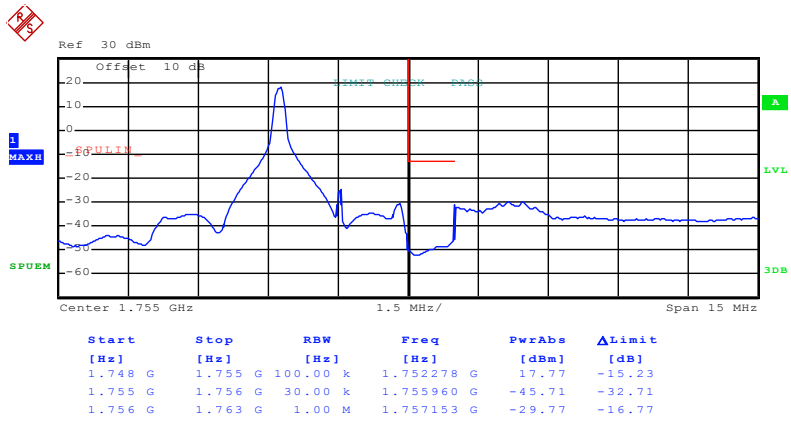
### Highest channel

Test Mode:	LTE band 4(16QAM RB Size 1 & RB Offset 0)
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Date: 11.NOV.2015 02:01:36

### Lowest channel

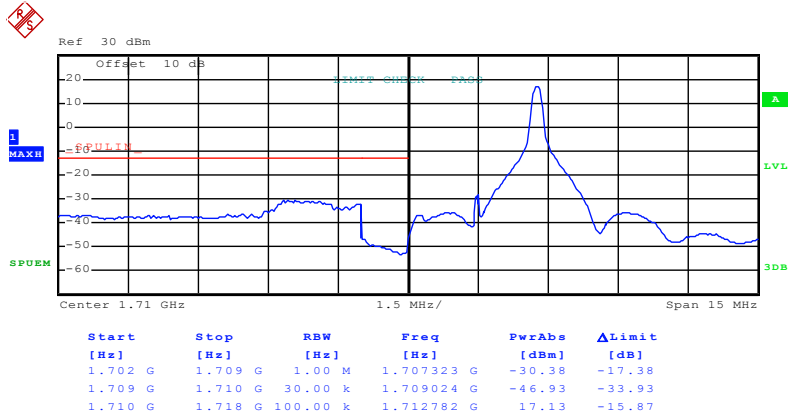


Date: 11.NOV.2015 02:06:54

### Highest channel

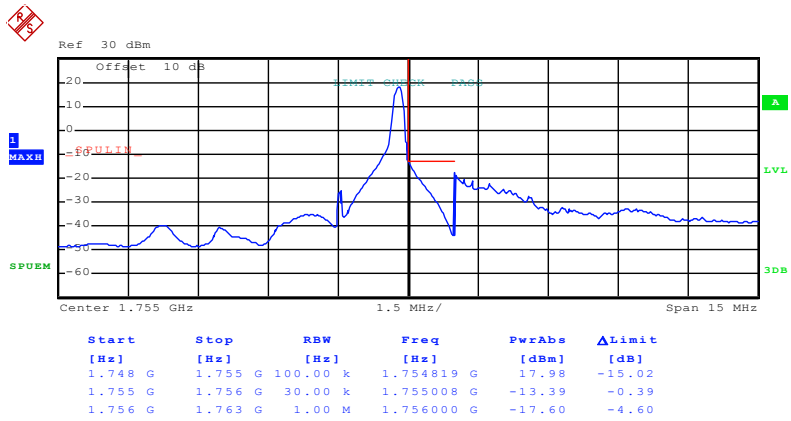


Test Mode:	LTE band 4(16QAM RB Size 1 & RB Offset 14)
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Date: 11.NOV.2015 02:01:56

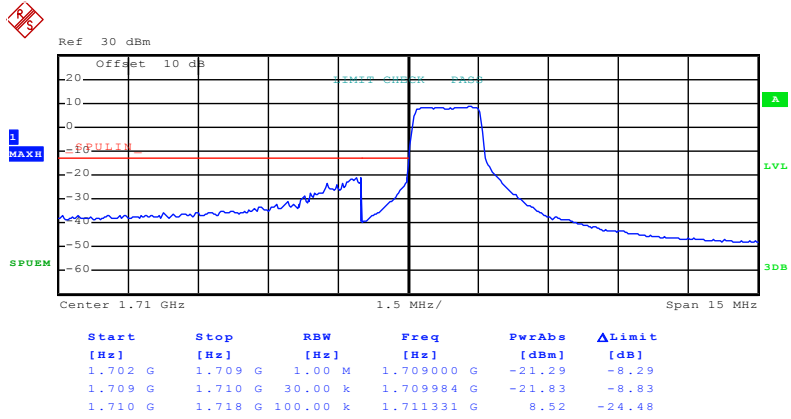
### Lowest channel



Date: 11.NOV.2015 02:07:41

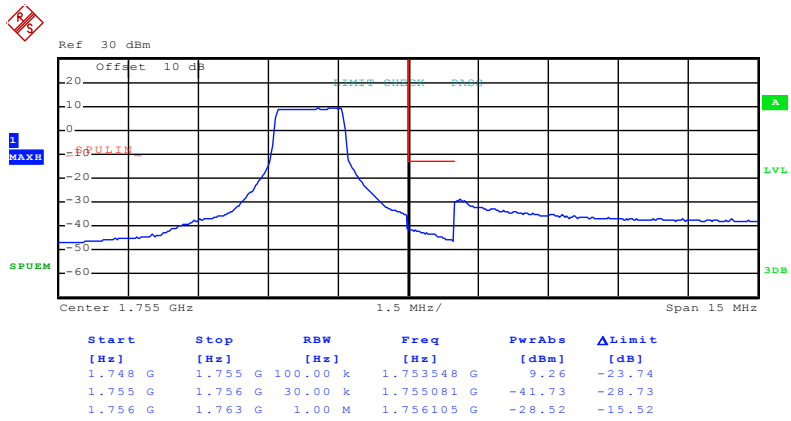
### Highest channel

Test Mode:	LTE band 4(16QAM RB Size 8 & RB Offset 0)
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Date: 11.NOV.2015 02:03:16

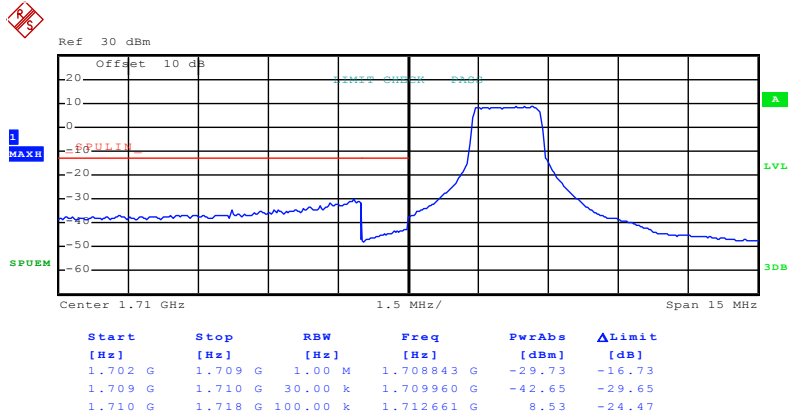
### Lowest channel



Date: 11.NOV.2015 02:10:26

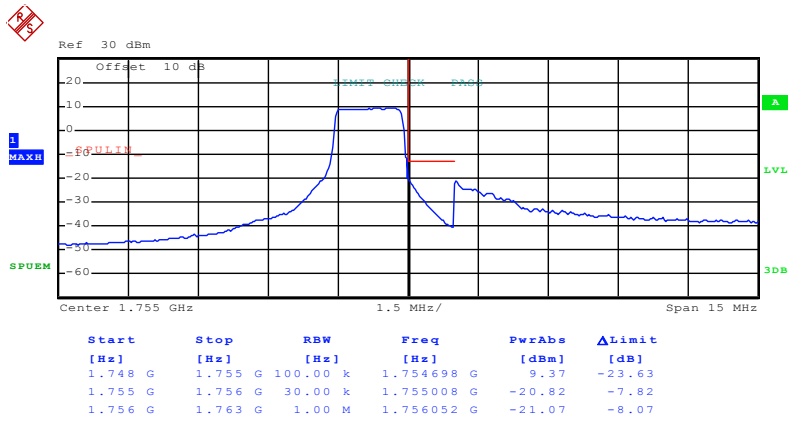
### Highest channel

Test Mode:	LTE band 4(16QAM RB Size 8 & RB Offset 7)
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Date: 11.NOV.2015 02:03:29

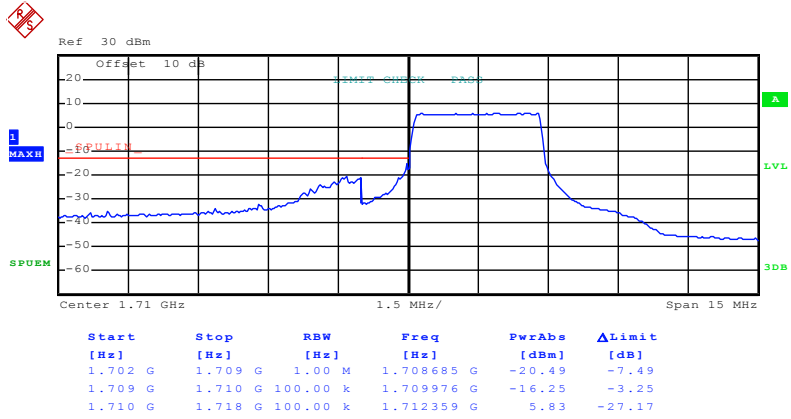
Lowest channel



Date: 11.NOV.2015 02:10:40

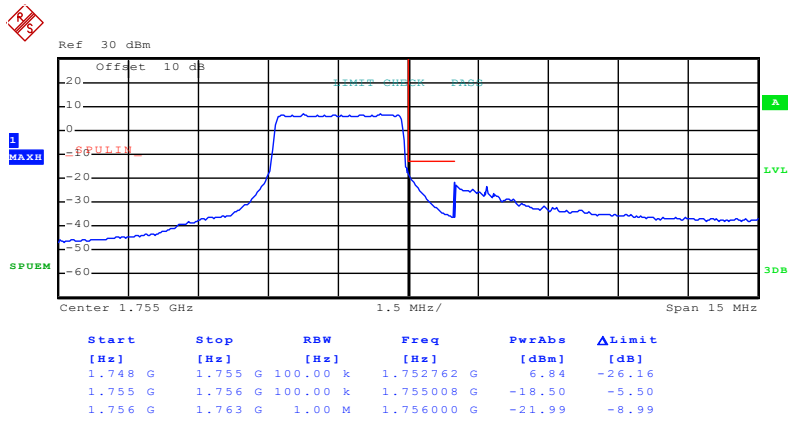
Highest channel

Test Mode:	LTE band 4(16QAM RB Size 15 & RB Offset 0)
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Date: 11.NOV.2015 02:04:25

### Lowest channel

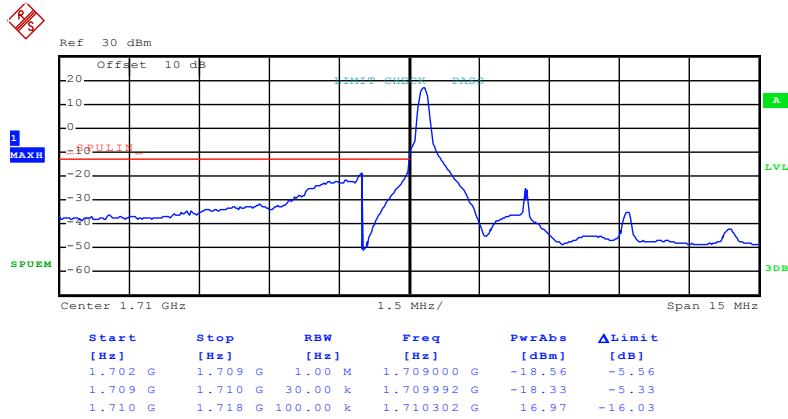


Date: 11.NOV.2015 02:11:47

### Highest channel

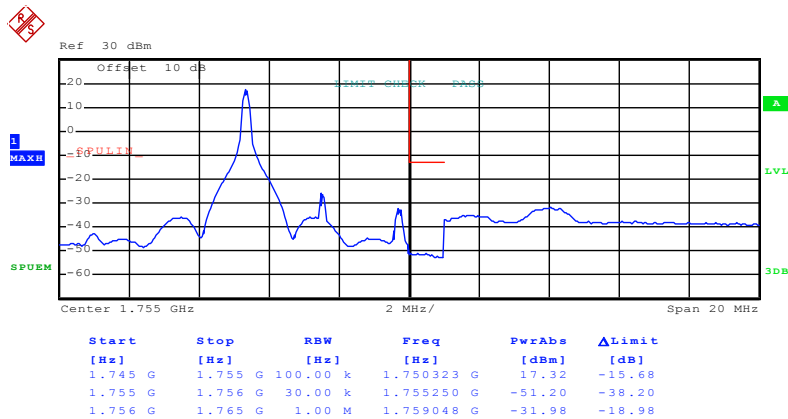
5MHz:

Test Mode:	LTE band 4(QPSK RB Size 1 & RB Offset 0)
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Date: 11.NOV.2015 02:13:07

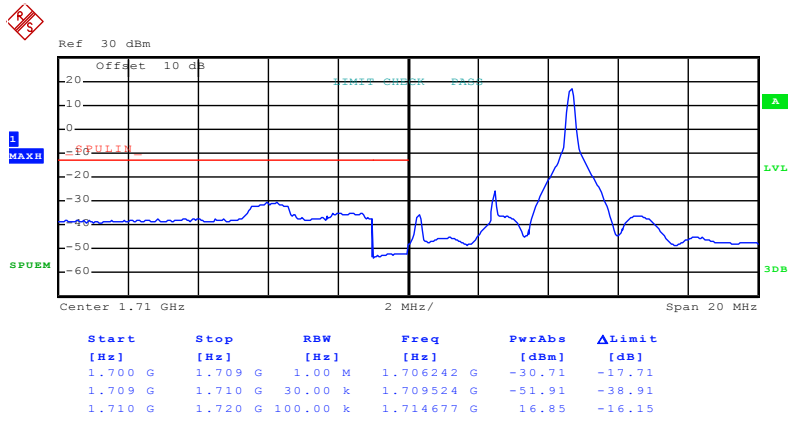
Lowest channel



Date: 11.NOV.2015 02:18:05

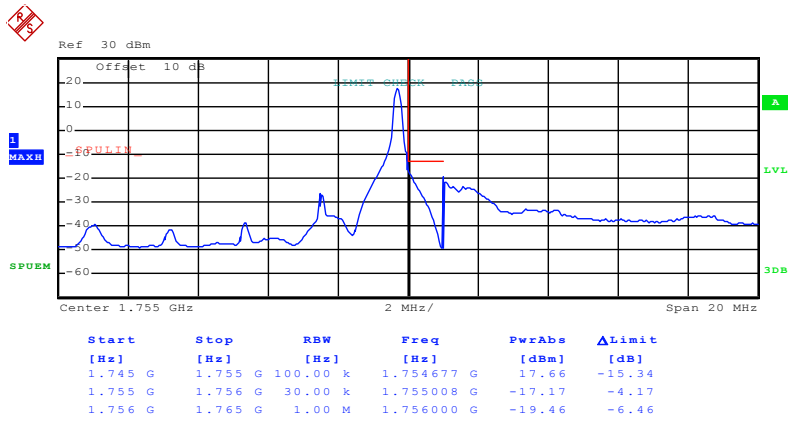
Highest channel

Test Mode:	LTE band 4(QPSK RB Size 1 & RB Offset 24)
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Date: 11.NOV.2015 02:14:45

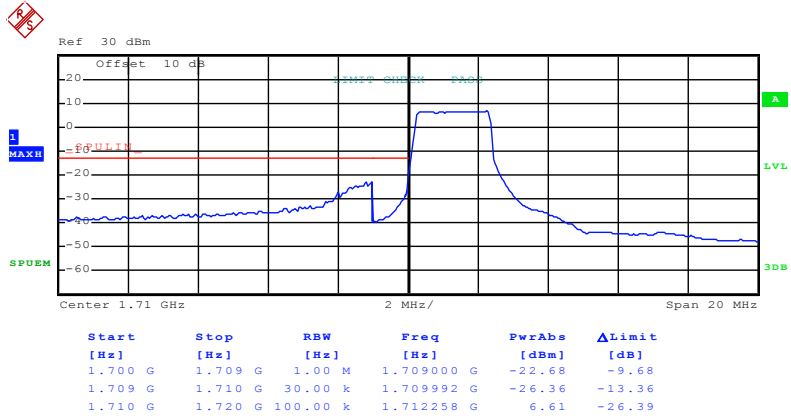
### Lowest channel



Date: 11.NOV.2015 02:18:48

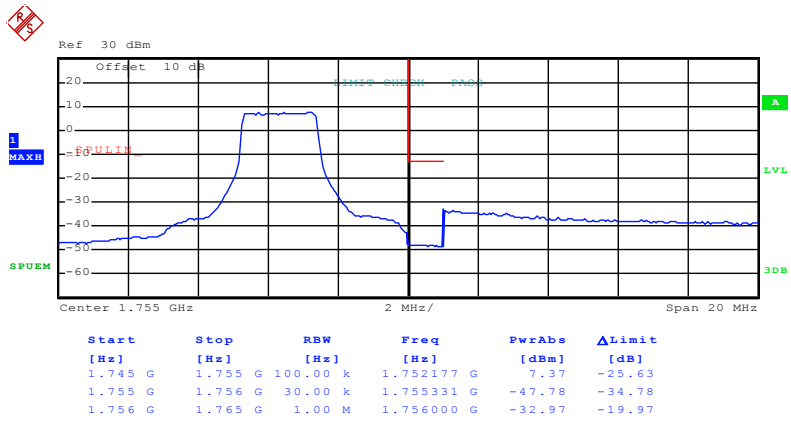
### Highest channel

Test Mode:	LTE band 4(QPSK RB Size 12 & RB Offset 0)
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Date: 11.NOV.2015 02:15:06

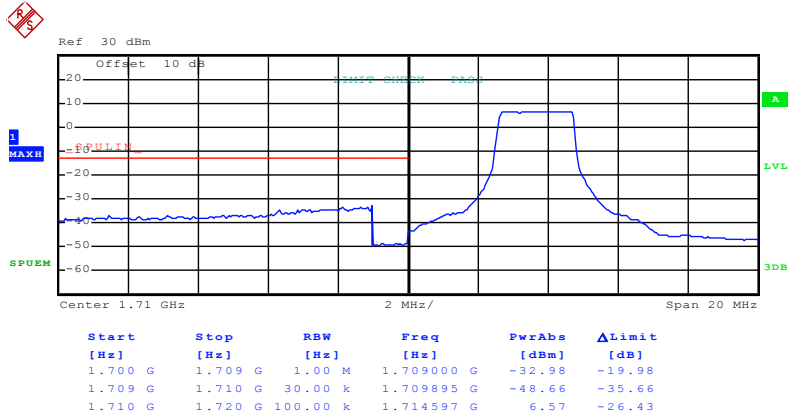
### Lowest channel



Date: 11.NOV.2015 02:19:31

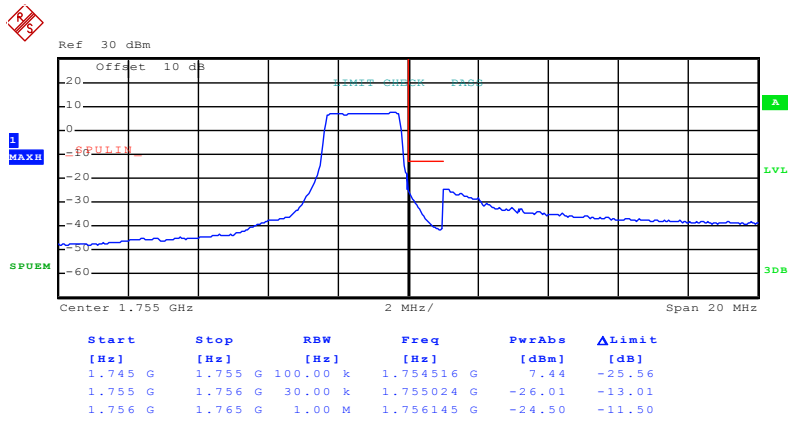
### Highest channel

Test Mode:	LTE band 4(QPSK RB Size 12 & RB Offset 11)
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Date: 11.NOV.2015 02:16:04

### Lowest channel

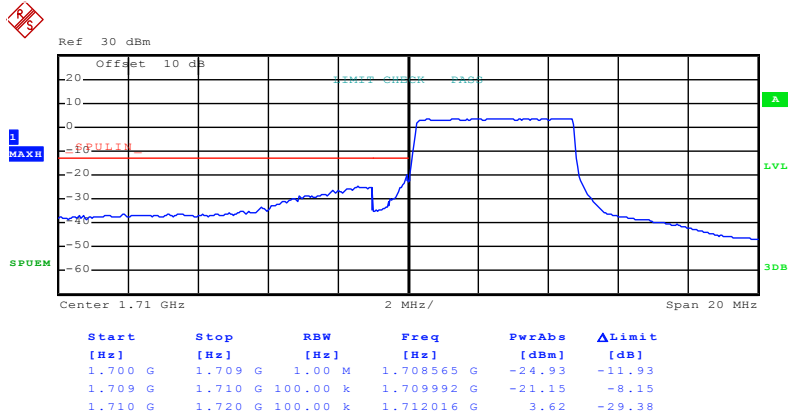


Date: 11.NOV.2015 02:22:42

### Highest channel

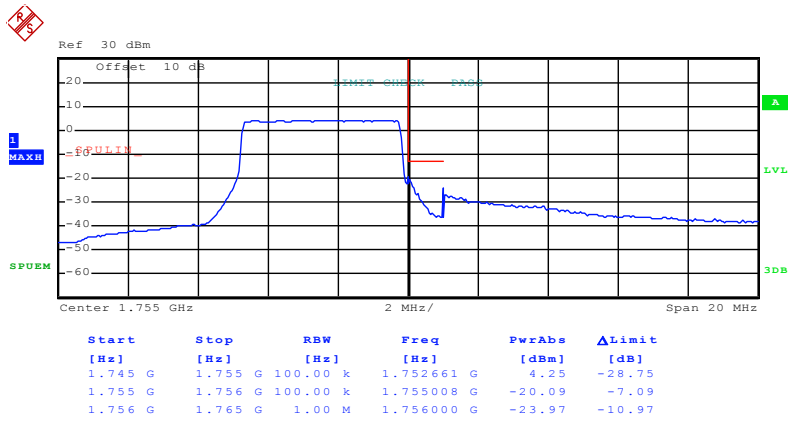


Test Mode:	LTE band 4(QPSK RB Size 25 & RB Offset 0)
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Date: 11.NOV.2015 02:16:49

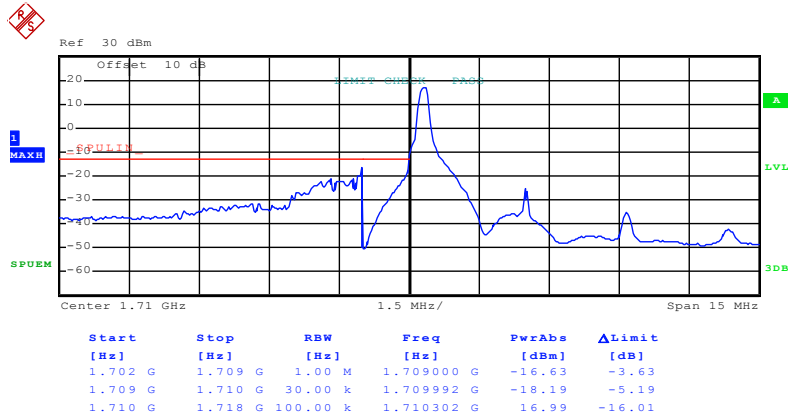
### Lowest channel



Date: 11.NOV.2015 02:23:10

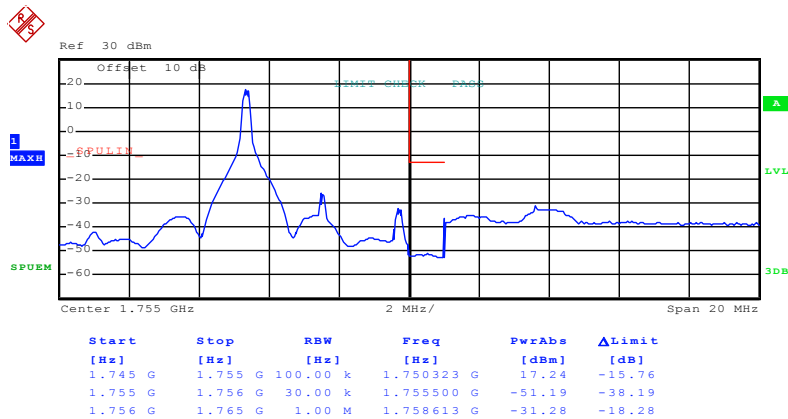
### Highest channel

Test Mode: LTE band 4(16QAM RB Size 1 & RB Offset 0)



Date: 11.NOV.2015 02:13:22

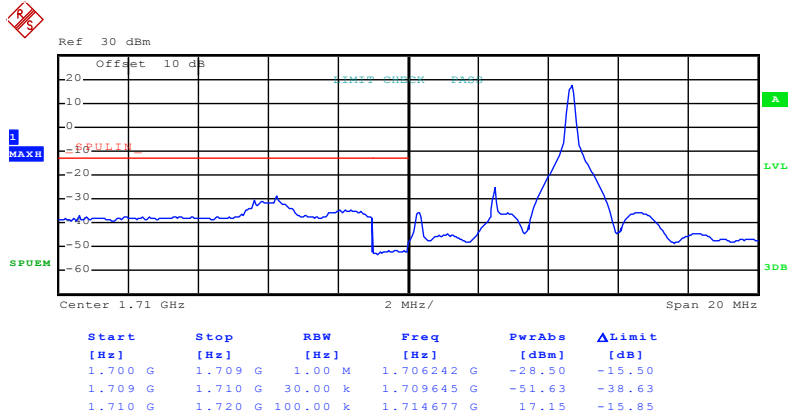
Lowest channel



Date: 11.NOV.2015 02:18:21

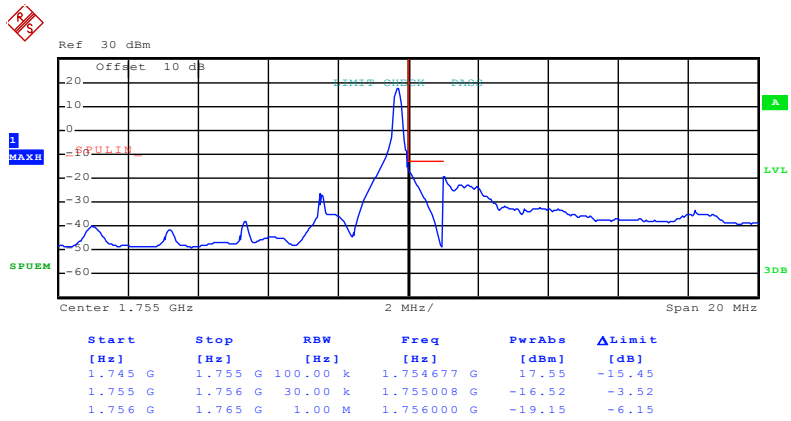
Highest channel

Test Mode:	LTE band 4(16QAM RB Size 1 & RB Offset 24)
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Date: 11.NOV.2015 02:14:32

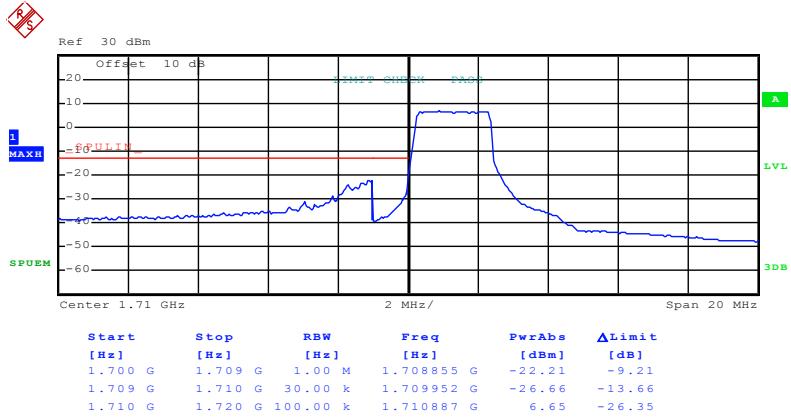
### Lowest channel



Date: 11.NOV.2015 02:18:35

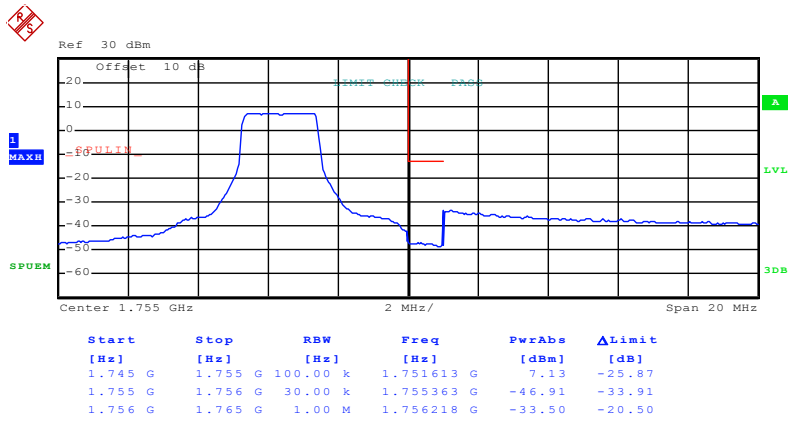
### Highest channel

Test Mode:	LTE band 4(16QAM RB Size 12 & RB Offset 0)
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Date: 11.NOV.2015 02:15:28

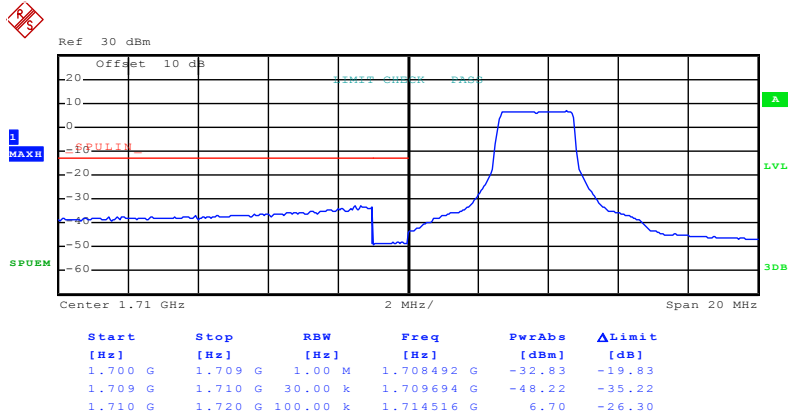
### Lowest channel



Date: 11.NOV.2015 02:19:43

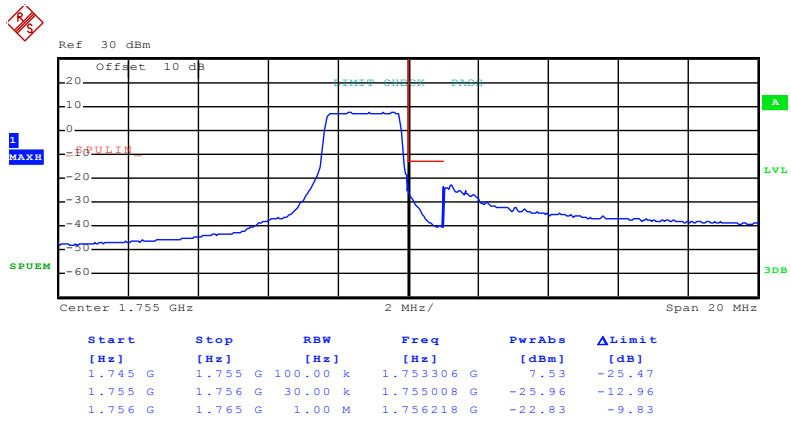
### Highest channel

Test Mode:	LTE band 4(16QAM RB Size 12 & RB Offset 11)
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Date: 11.NOV.2015 02:15:44

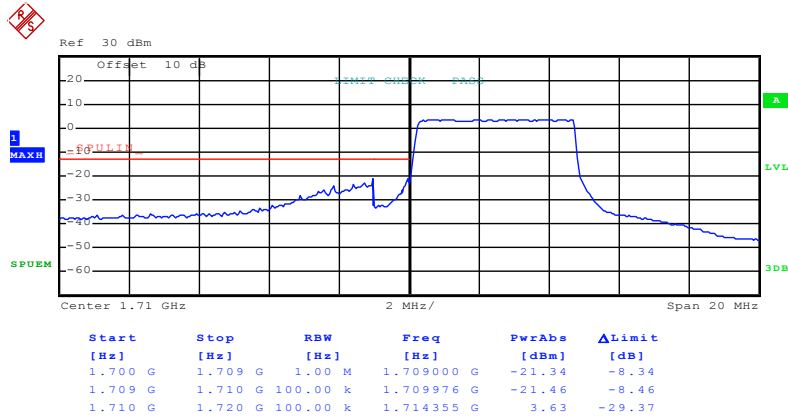
### Lowest channel



Date: 11.NOV.2015 02:19:57

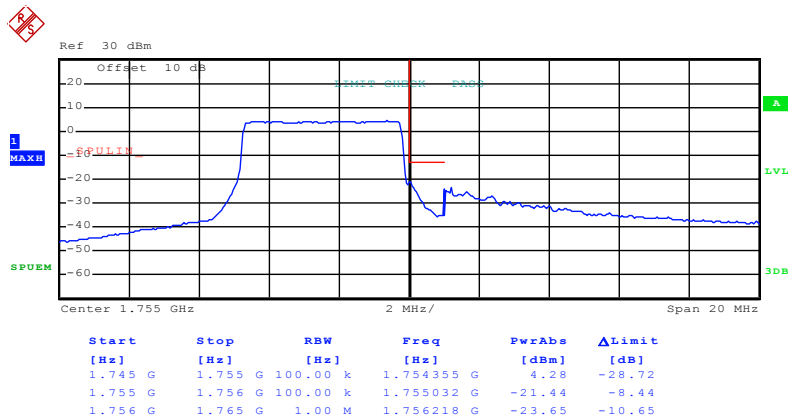
### Highest channel

Test Mode: LTE band 4(16QAM RB Size 25 & RB Offset 0)



Date: 11.NOV.2015 02:17:02

Lowest channel

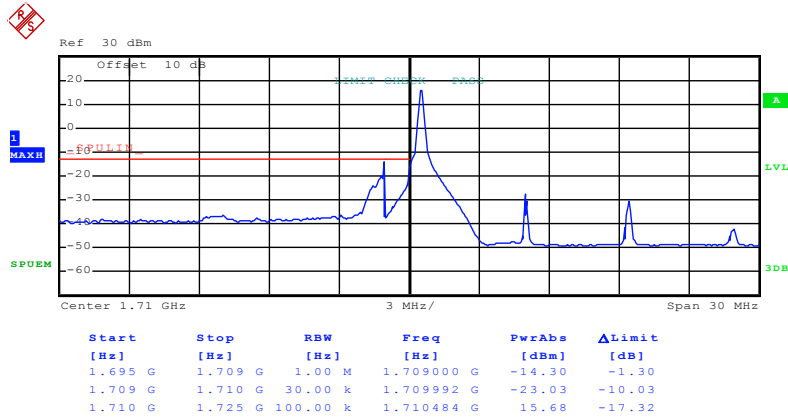


Date: 11.NOV.2015 02:23:23

Highest channel

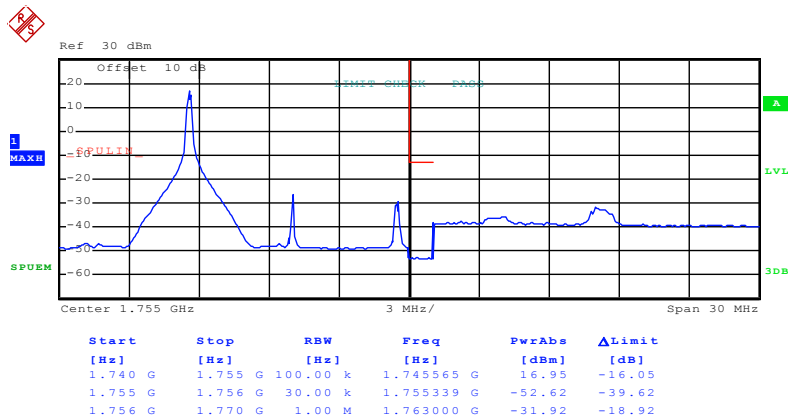
10MHz:

Test Mode:	LTE band 4(QPSK RB Size 1 & RB Offset 0)
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Date: 11.NOV.2015 02:26:29

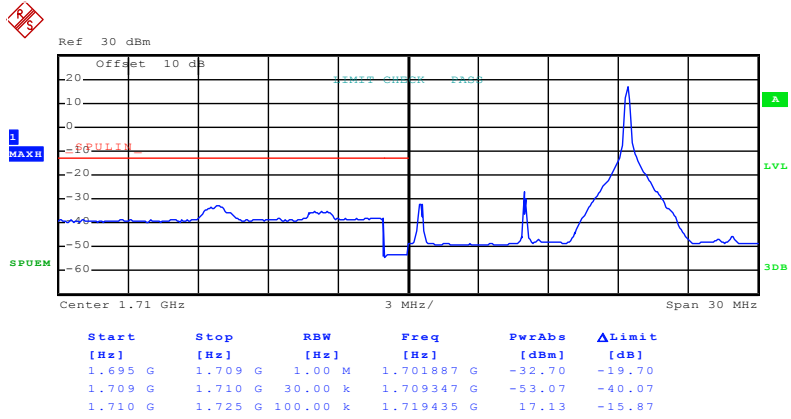
Lowest channel



Date: 11.NOV.2015 02:30:08

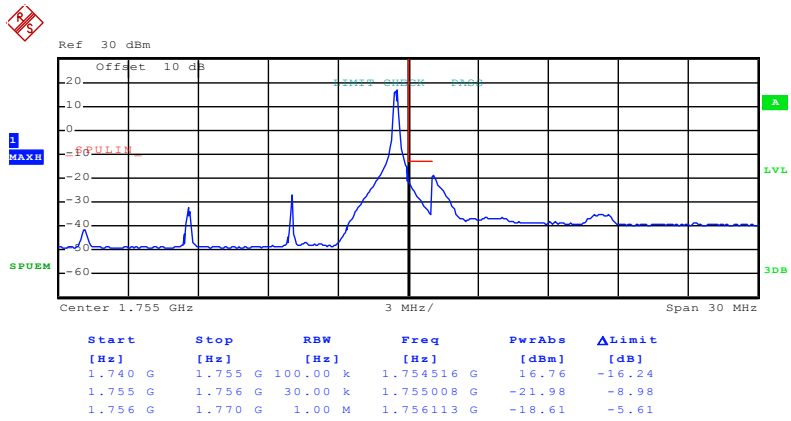
Highest channel

Test Mode:	LTE band 4(QPSK RB Size 1 & RB Offset 49)
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Date: 11.NOV.2015 02:27:21

### Lowest channel

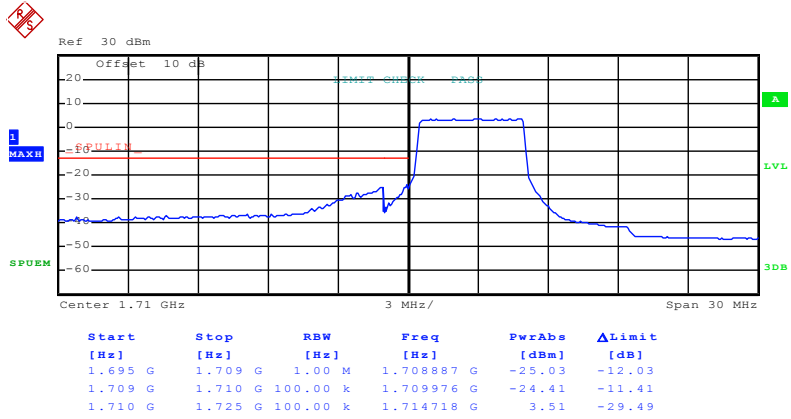


Date: 11.NOV.2015 02:30:55

### Highest channel

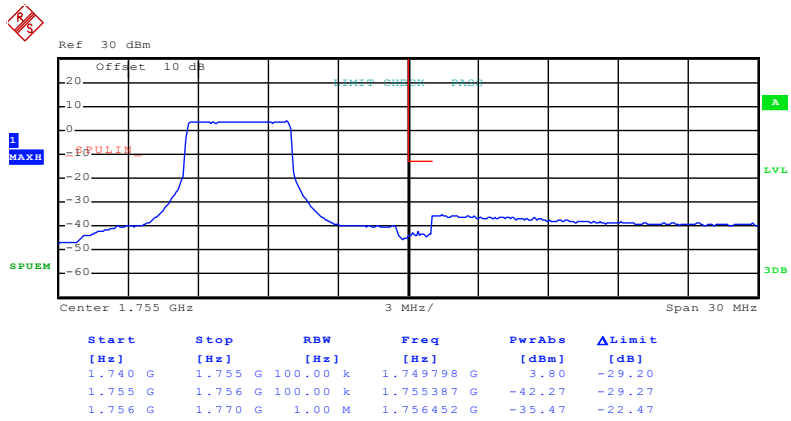


Test Mode:	LTE band 4(QPSK RB Size 25 & RB Offset 0)
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Date: 11.NOV.2015 02:27:54

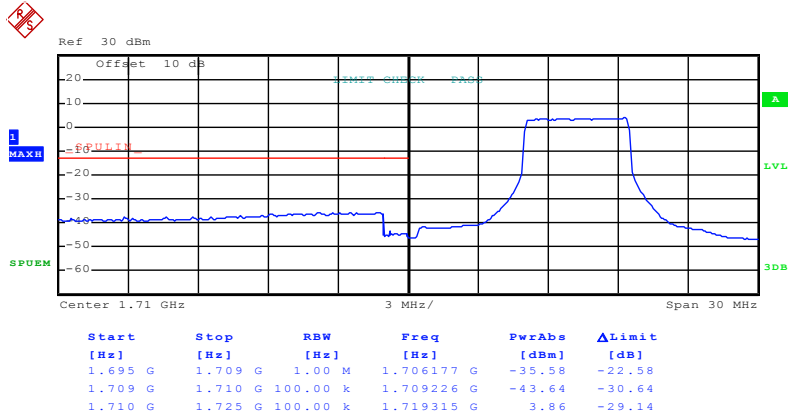
### Lowest channel



Date: 11.NOV.2015 02:31:32

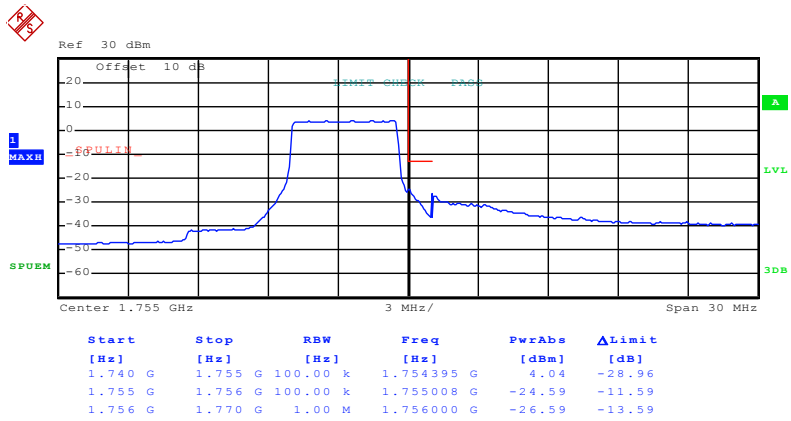
### Highest channel

Test Mode:	LTE band 4(QPSK RB Size 25 & RB Offset 24)
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Date: 11.NOV.2015 02:28:38

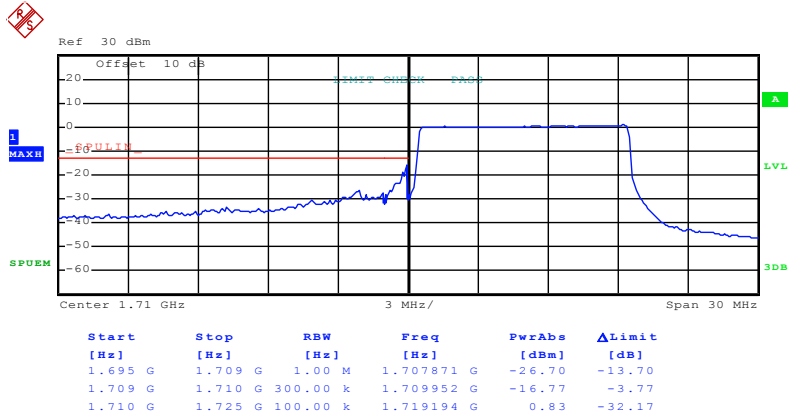
### Lowest channel



Date: 11.NOV.2015 02:32:19

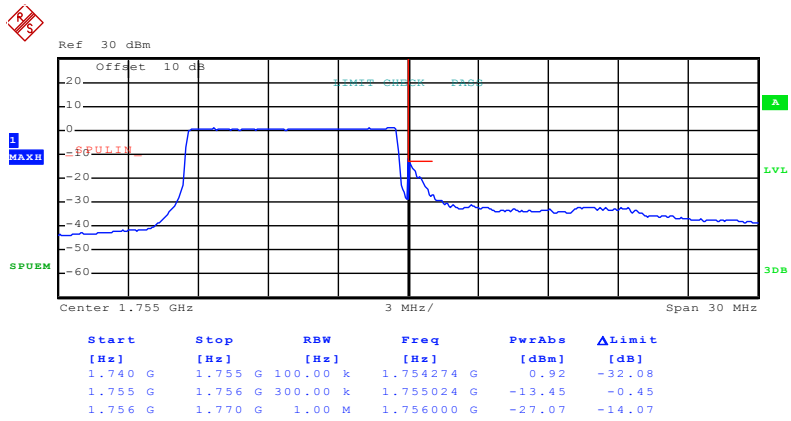
### Highest channel

Test Mode:	LTE band 4(QPSK RB Size 50 & RB Offset 0)
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Date: 11.NOV.2015 02:29:07

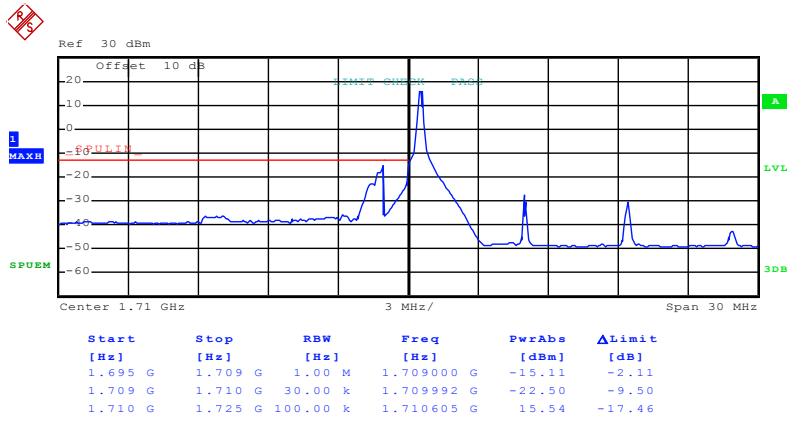
### Lowest channel



Date: 11.NOV.2015 02:32:52

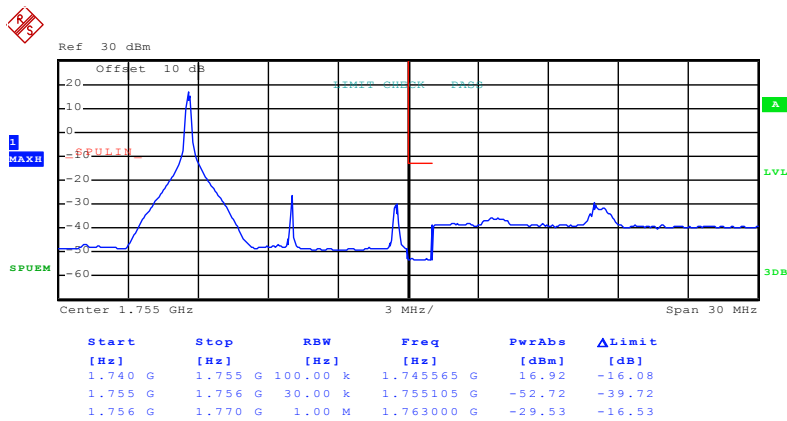
### Highest channel

Test Mode:	LTE band 4(16QAM RB Size 1 & RB Offset 0)
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Date: 11.NOV.2015 02:26:51

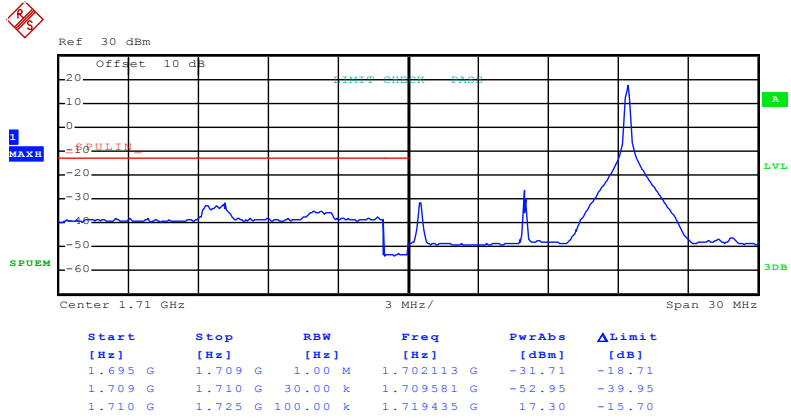
### Lowest channel



Date: 11.NOV.2015 02:30:21

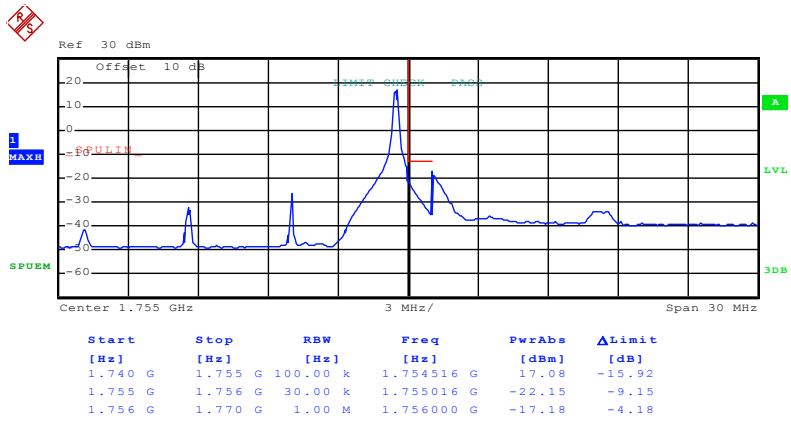
### Highest channel

Test Mode:	LTE band 4(16QAM RB Size 1 & RB Offset 49)
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Date: 11.NOV.2015 02:27:07

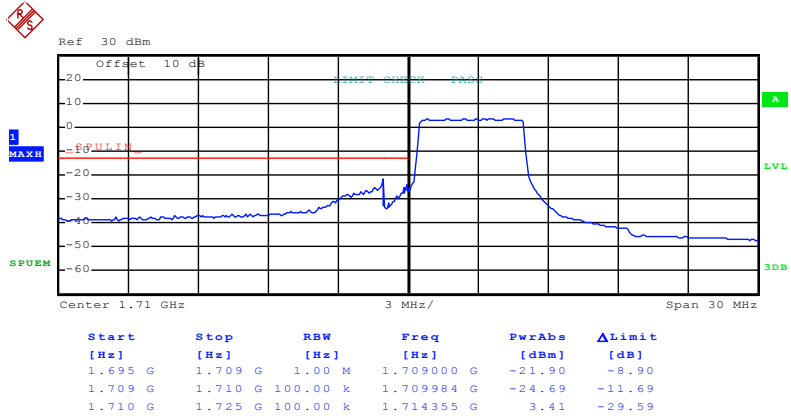
### Lowest channel



Date: 11.NOV.2015 02:30:42

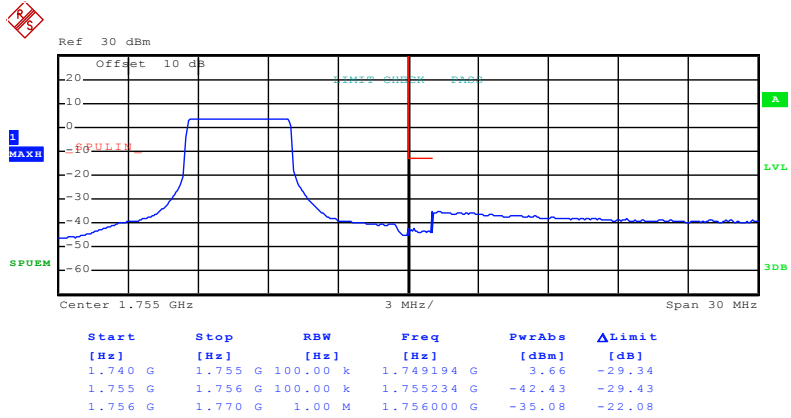
### Highest channel

Test Mode:	LTE band 4(16QAM RB Size 25 & RB Offset 0)
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Date: 11.NOV.2015 02:28:07

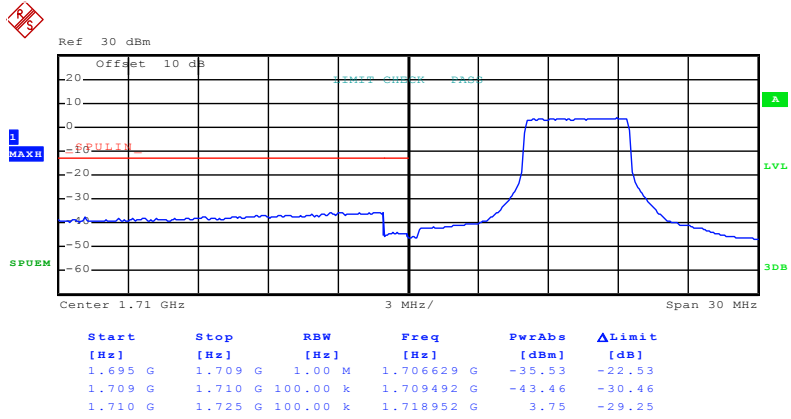
### Lowest channel



Date: 11.NOV.2015 02:31:47

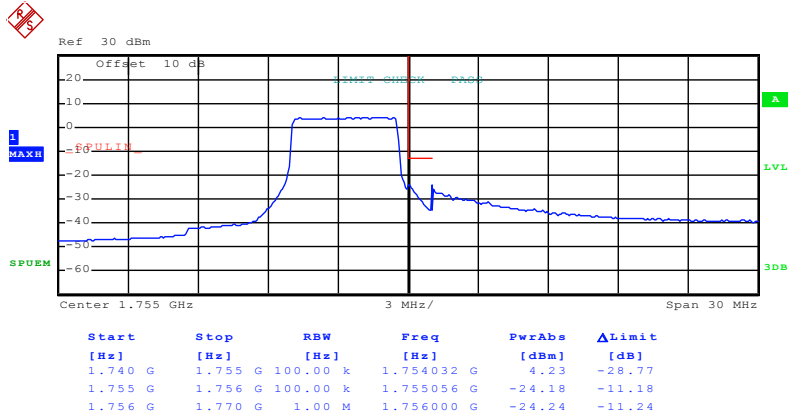
### Highest channel

Test Mode:	LTE band 4(16QAM RB Size 25 & RB Offset 24)
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Date: 11.NOV.2015 02:28:20

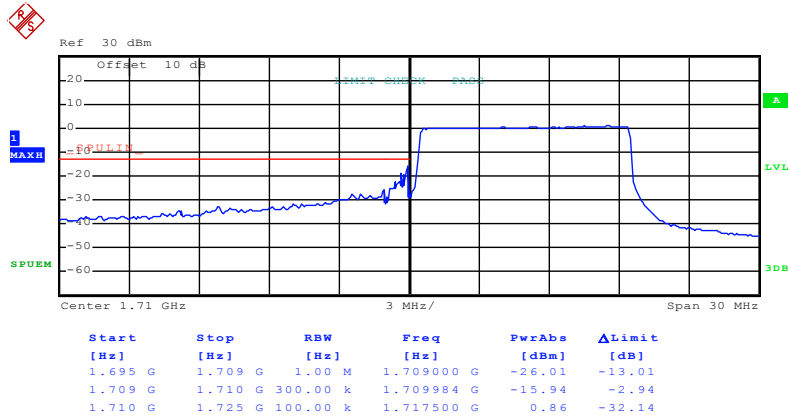
Lowest channel



Date: 11.NOV.2015 02:32:04

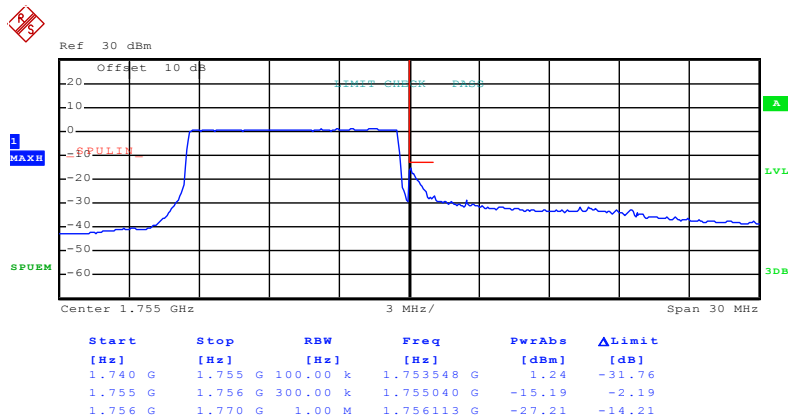
Highest channel

Test Mode: LTE band 4(16QAM RB Size 50 & RB Offset 0)



Date: 11.NOV.2015 02:29:18

Lowest channel



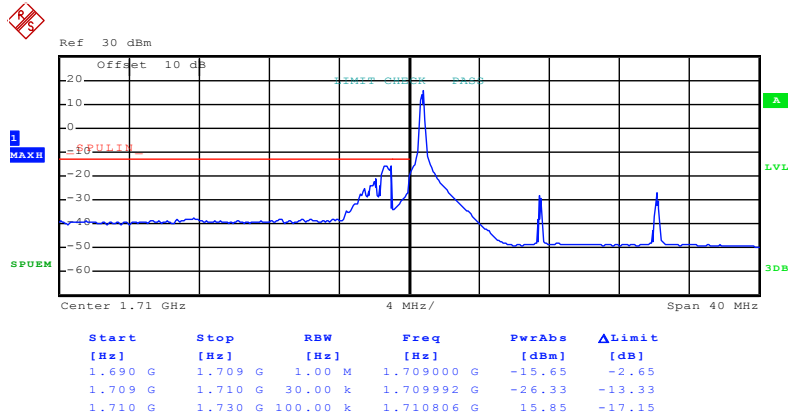
Date: 11.NOV.2015 02:33:06

Highest channel



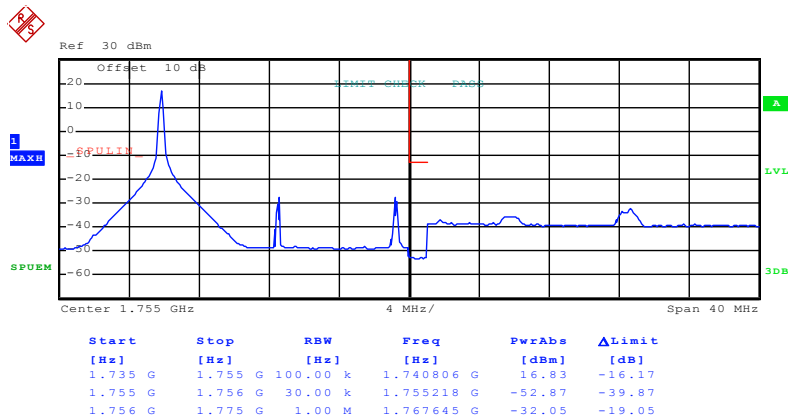
15MHz:

Test Mode:	LTE band 4(QPSK RB Size 1 & RB Offset 0)
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Date: 11.NOV.2015 02:43:36

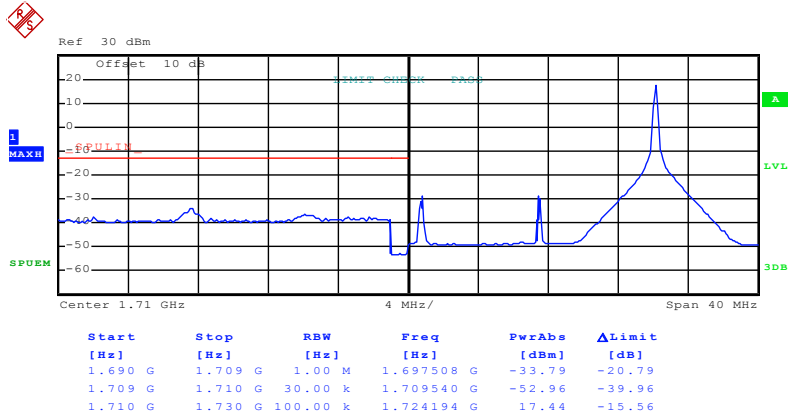
Lowest channel



Date: 11.NOV.2015 02:51:09

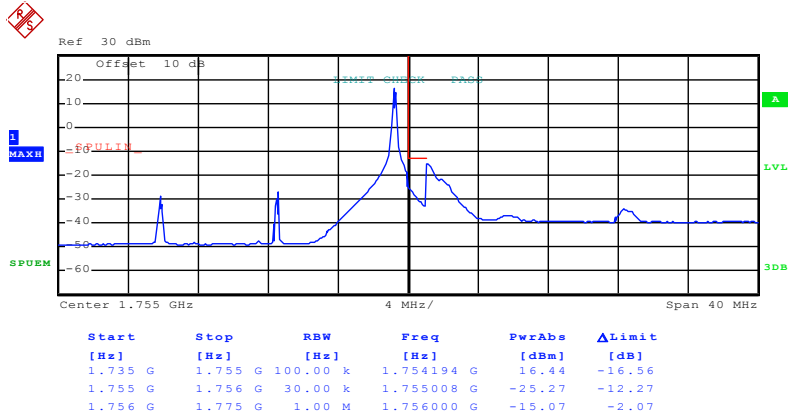
Highest channel

Test Mode:	LTE band 4(QPSK RB Size 1 & RB Offset 74)
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Date: 11.NOV.2015 02:44:51

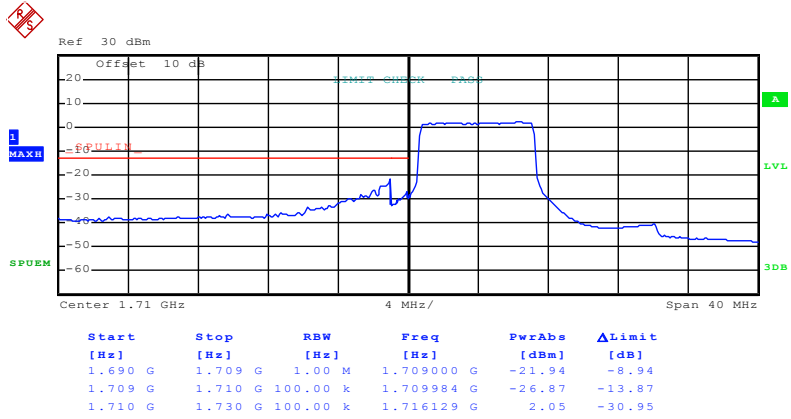
### Lowest channel



Date: 11.NOV.2015 02:52:02

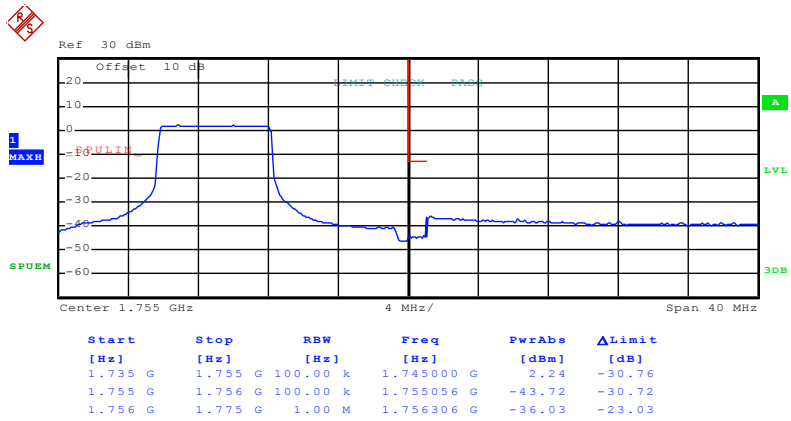
### Highest channel

Test Mode:	LTE band 4(QPSK RB Size 36 & RB Offset 0)
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Date: 11.NOV.2015 02:47:12

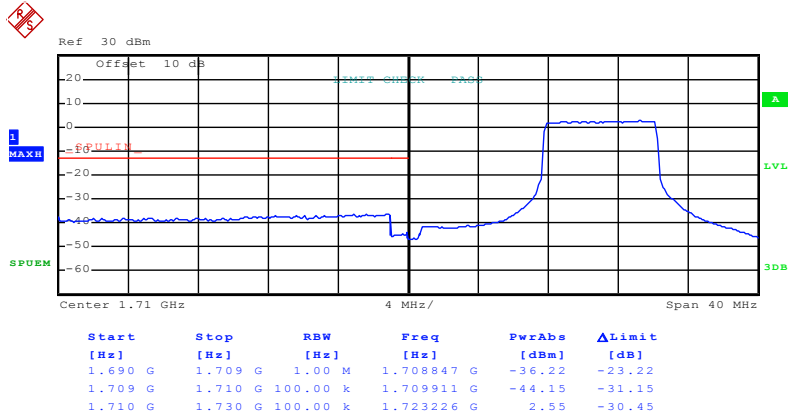
### Lowest channel



Date: 11.NOV.2015 02:52:40

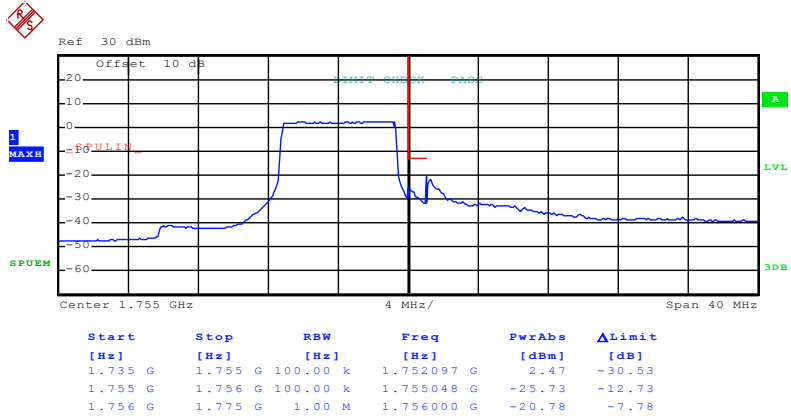
### Highest channel

Test Mode:	LTE band 4(QPSK RB Size 36 & RB Offset 35)
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Date: 11.NOV.2015 02:49:18

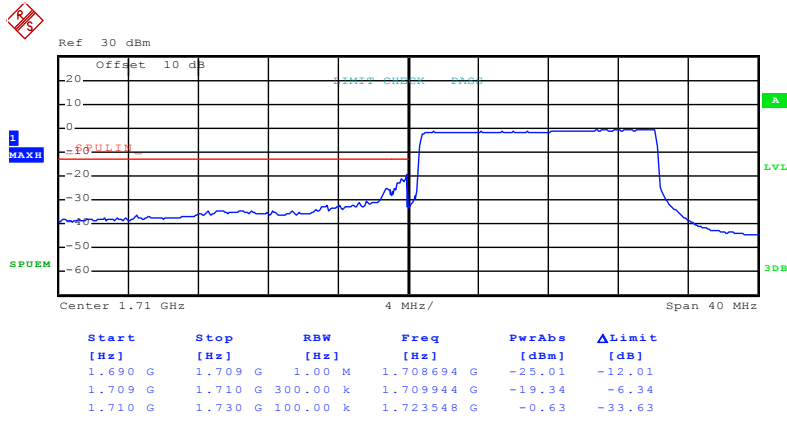
### Lowest channel



Date: 11.NOV.2015 02:54:25

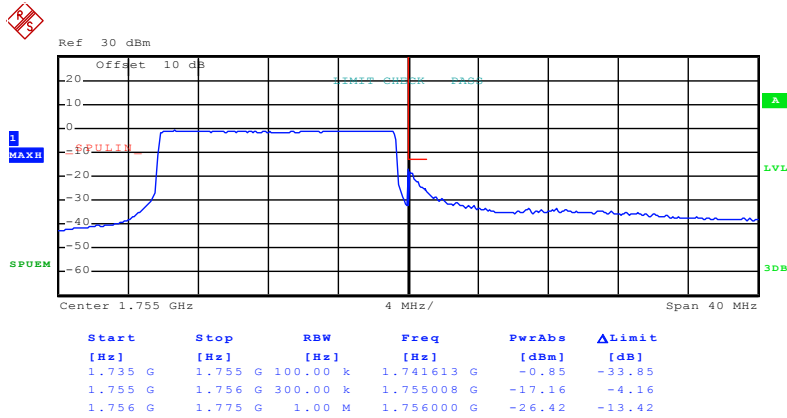
### Highest channel

Test Mode: LTE band 4(QPSK RB Size 75 & RB Offset 0)



Date: 11.NOV.2015 02:49:56

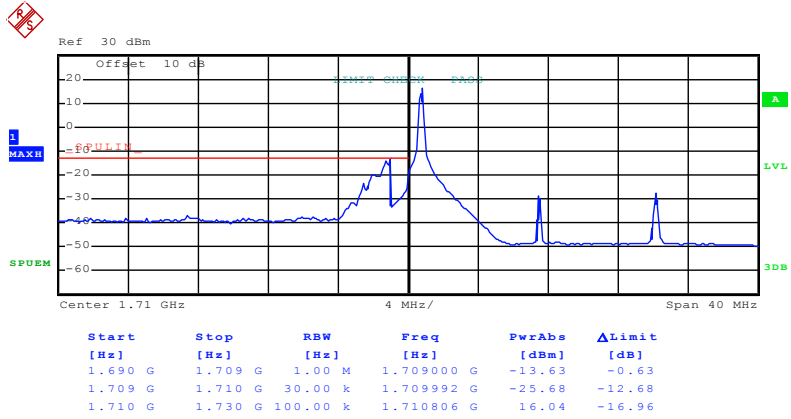
Lowest channel



Date: 11.NOV.2015 02:54:52

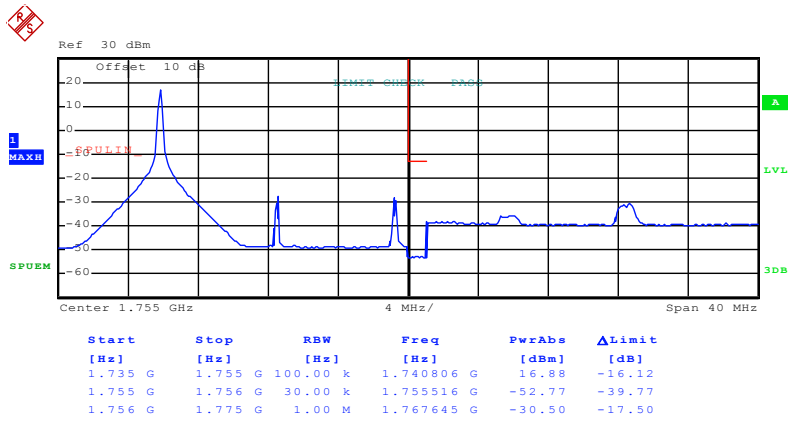
Highest channel

Test Mode:	LTE band 4(16QAM RB Size 1 & RB Offset 0)
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Date: 11.NOV.2015 02:44:16

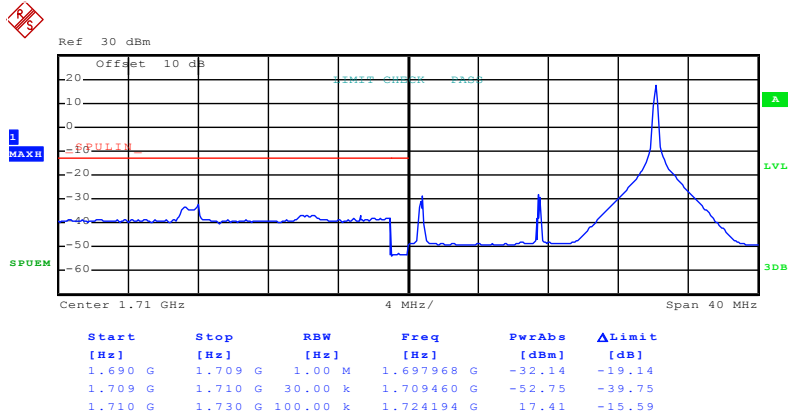
### Lowest channel



Date: 11.NOV.2015 02:51:28

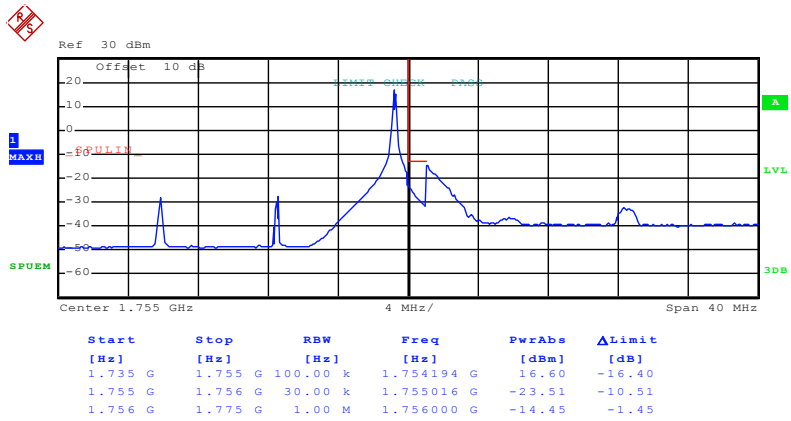
### Highest channel

Test Mode:	LTE band 4(16QAM RB Size 1 & RB Offset 74)
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Date: 11.NOV.2015 02:44:37

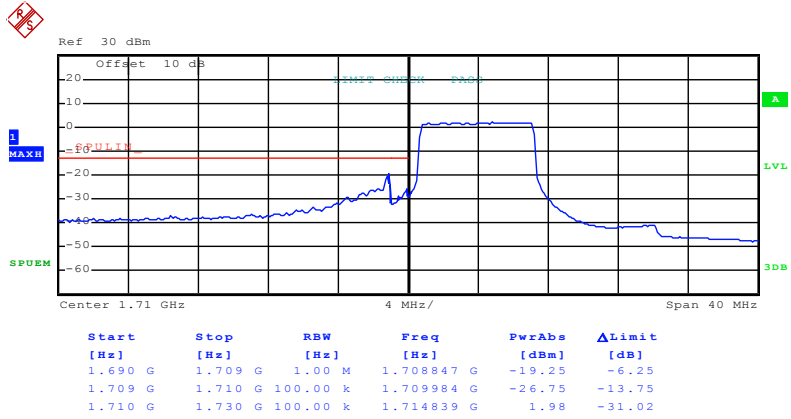
### Lowest channel



Date: 11.NOV.2015 02:51:44

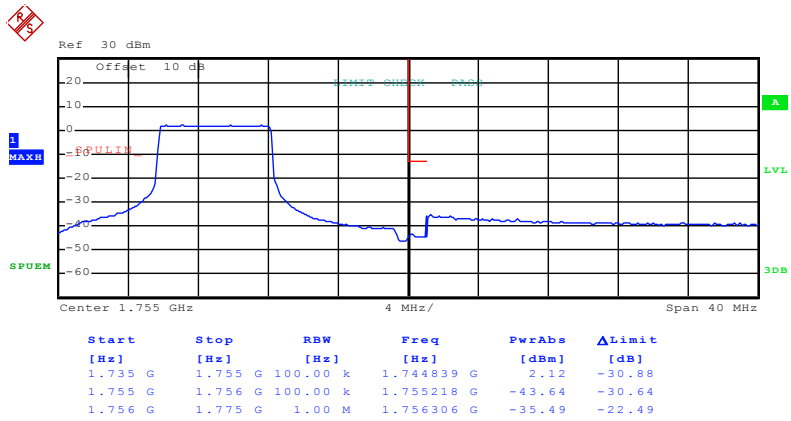
### Highest channel

Test Mode:	LTE band 4(16QAM RB Size 36 & RB Offset 0)
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Date: 11.NOV.2015 02:47:40

### Lowest channel

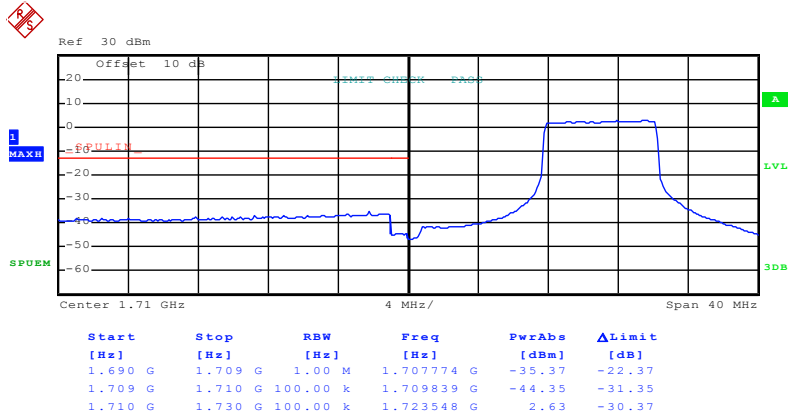


Date: 11.NOV.2015 02:53:01

### Highest channel

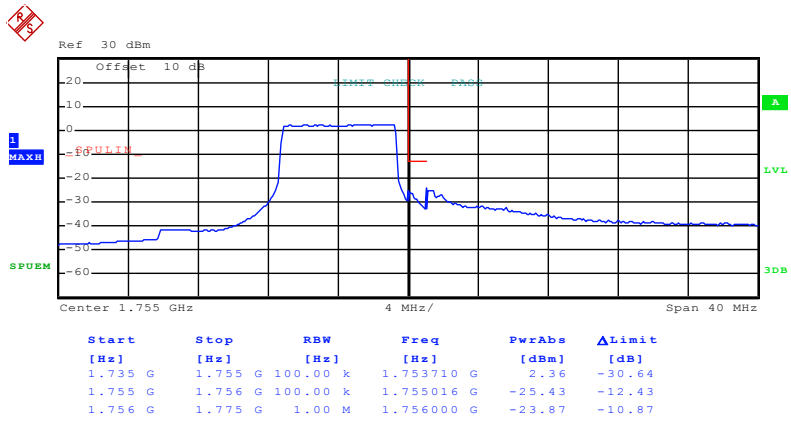


Test Mode:	LTE band 4(16QAM RB Size 36 & RB Offset 35)
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Date: 11.NOV.2015 02:48:57

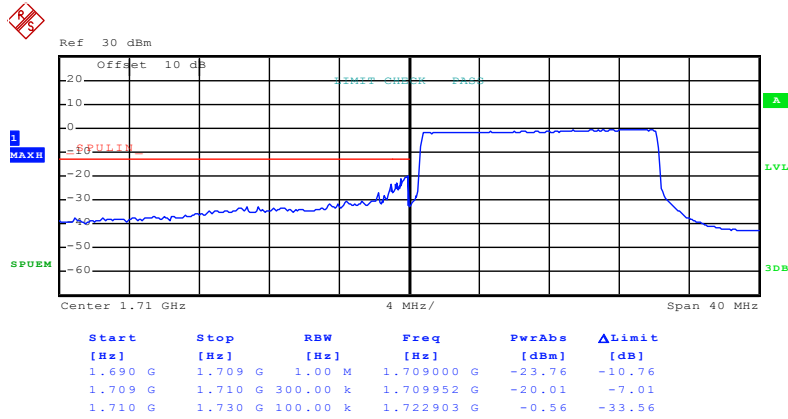
### Lowest channel



Date: 11.NOV.2015 02:53:18

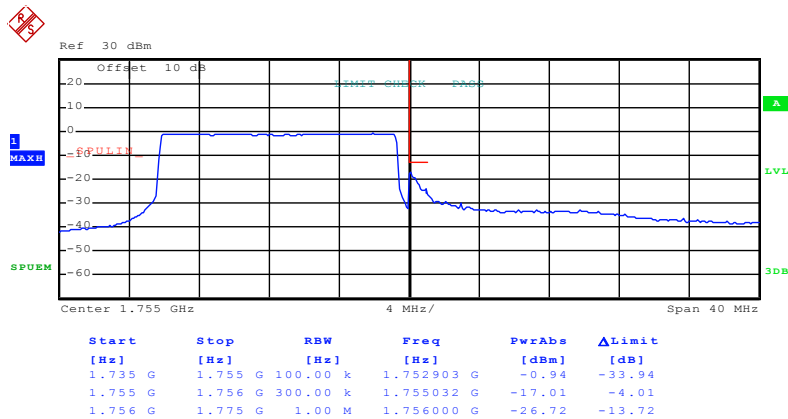
### Highest channel

Test Mode: LTE band 4(16QAM RB Size 75 & RB Offset 0)



Date: 11.NOV.2015 02:50:10

Lowest channel

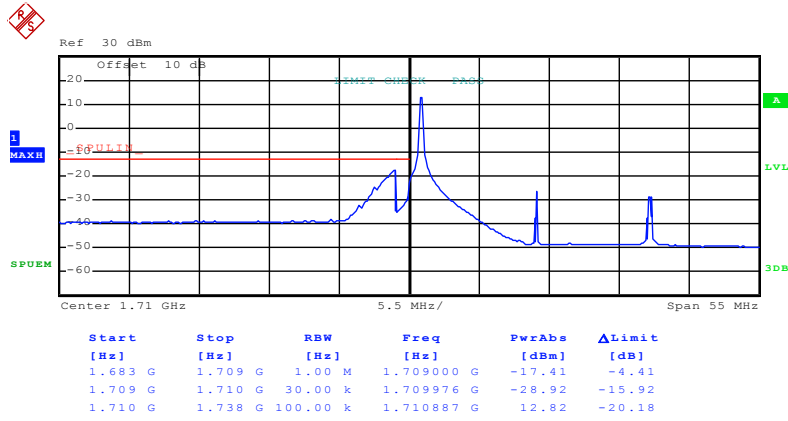


Date: 11.NOV.2015 02:55:08

Highest channel

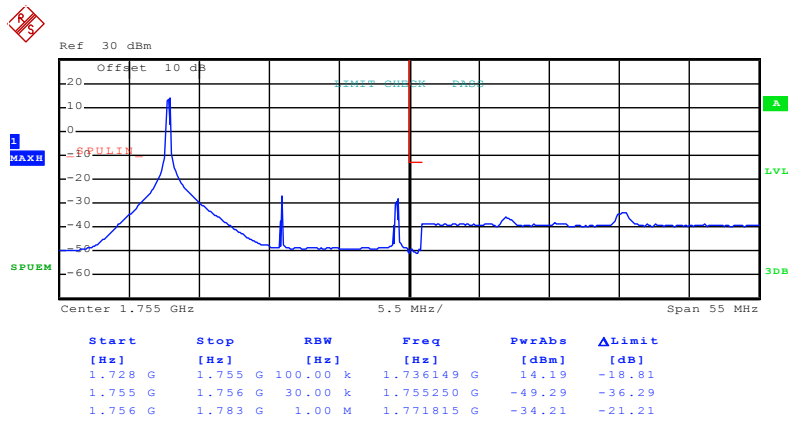
20MHz:

Test Mode:	LTE band 4(QPSK RB Size 1 & RB Offset 0)
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Date: 11.NOV.2015 02:57:30

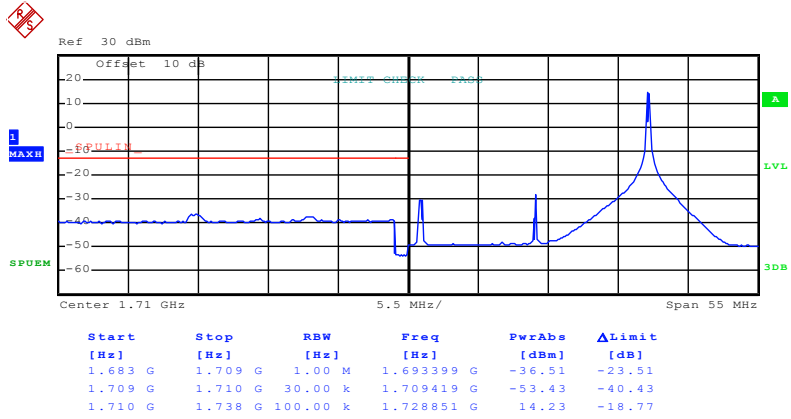
Lowest channel



Date: 11.NOV.2015 03:35:31

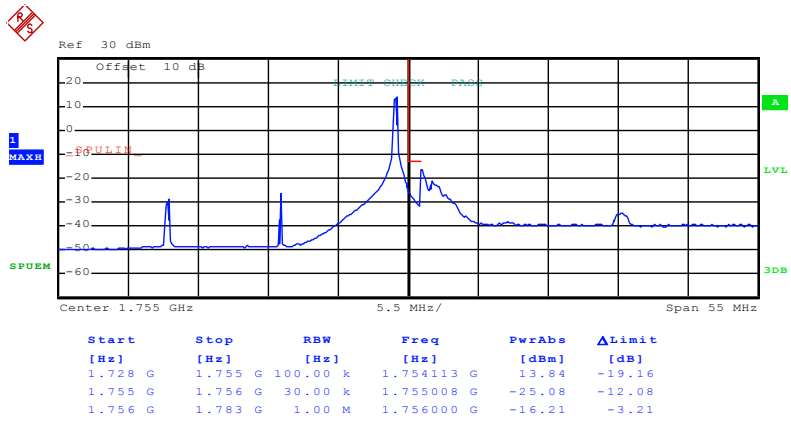
Highest channel

Test Mode:	LTE band 4(QPSK RB Size 1 & RB Offset 99)
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Date: 11.NOV.2015 02:58:36

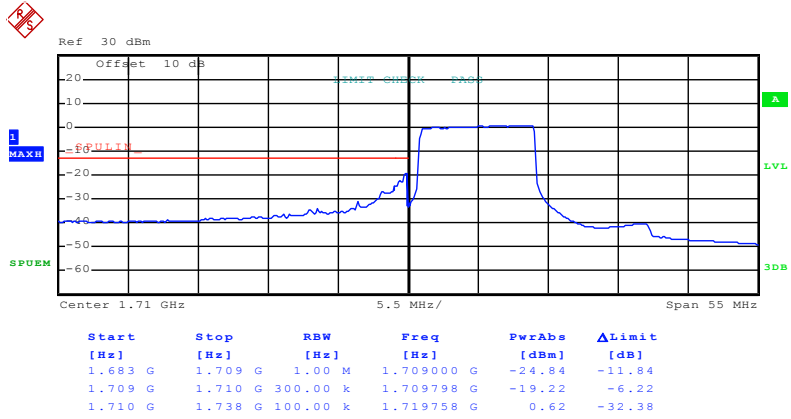
### Lowest channel



Date: 11.NOV.2015 03:36:19

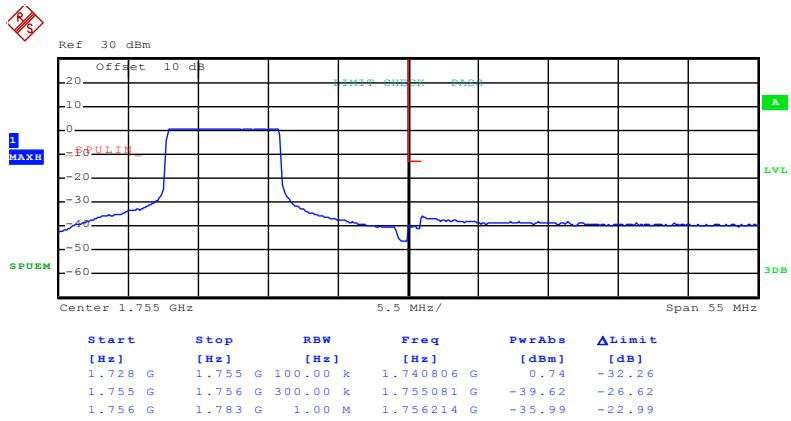
### Highest channel

Test Mode:	LTE band 4(QPSK RB Size 50 & RB Offset 0)
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Date: 11.NOV.2015 02:59:35

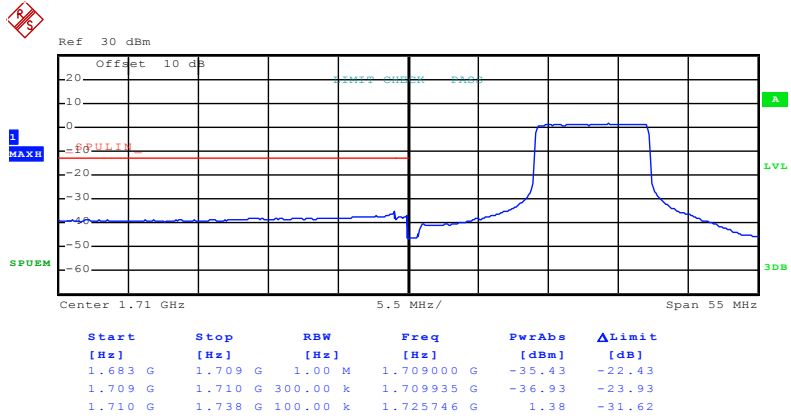
### Lowest channel



Date: 11.NOV.2015 03:36:44

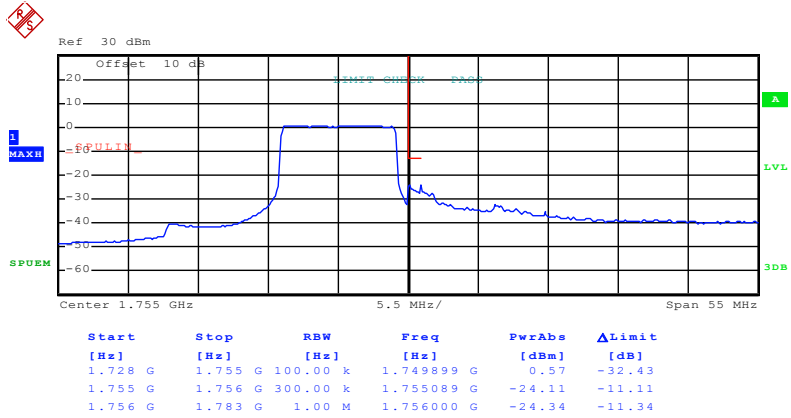
### Highest channel

Test Mode:	LTE band 4(QPSK RB Size 50 & RB Offset 49)
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Date: 11.NOV.2015 03:01:51

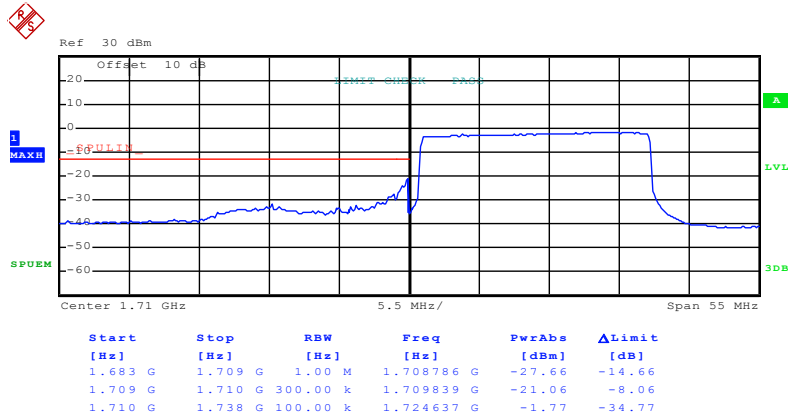
Lowest channel



Date: 11.NOV.2015 03:37:32

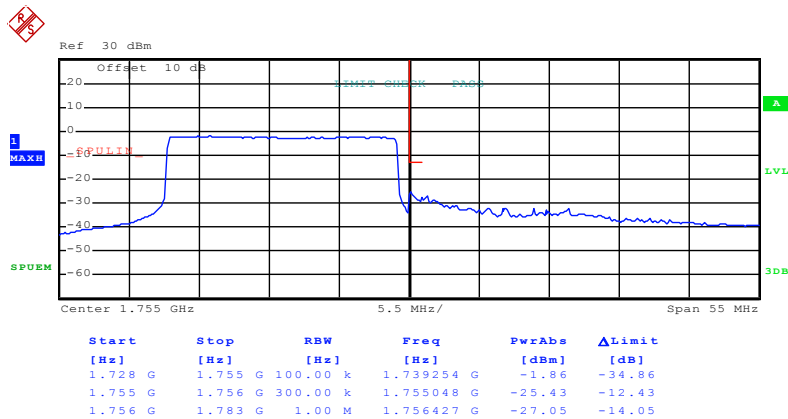
Highest channel

Test Mode: LTE band 4(QPSK RB Size 100 & RB Offset 0)



Date: 11.NOV.2015 03:02:06

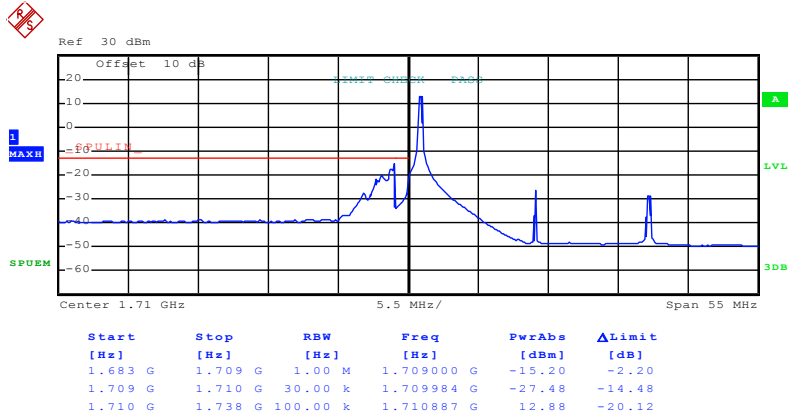
Lowest channel



Date: 11.NOV.2015 03:38:39

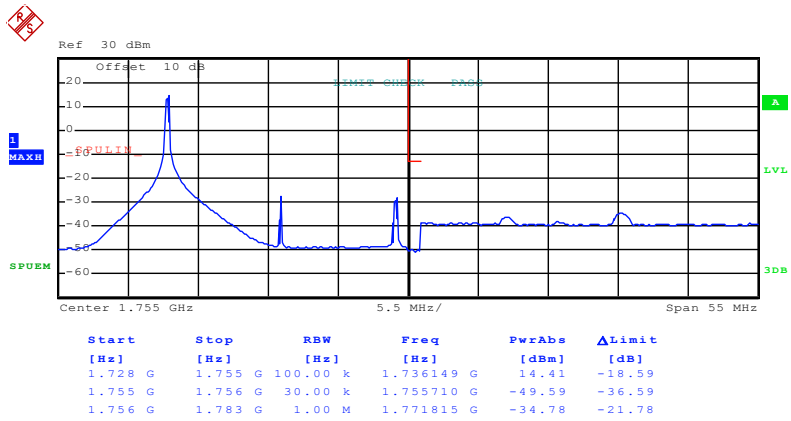
Highest channel

Test Mode: LTE band 4(16QAM RB Size 1 & RB Offset 0)



Date: 11.NOV.2015 02:58:00

Lowest channel

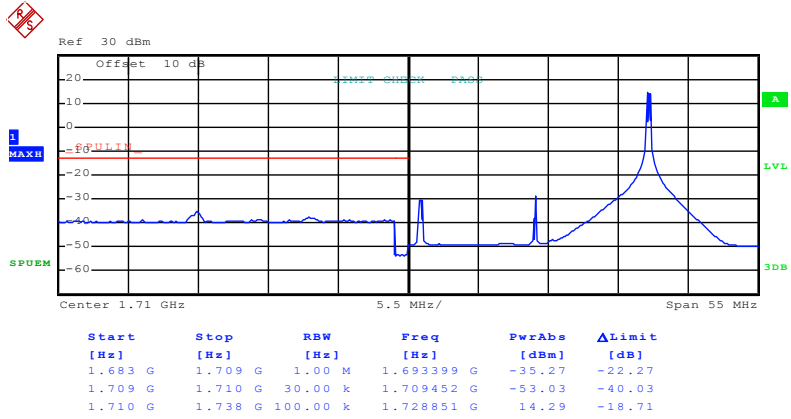


Date: 11.NOV.2015 03:35:53

Highest channel

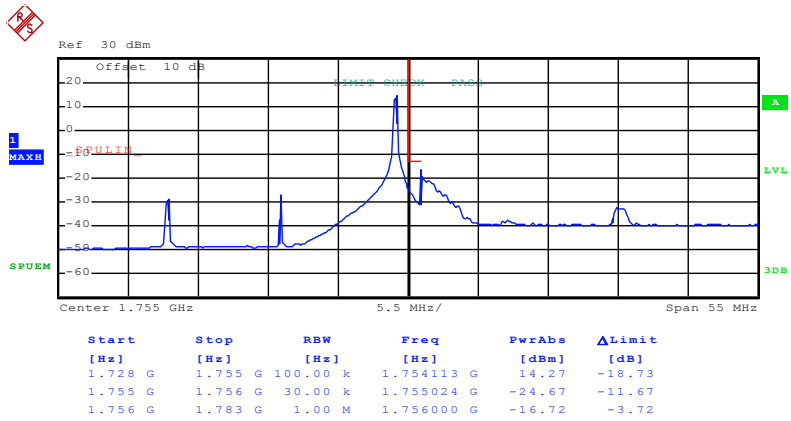


Test Mode:	LTE band 4(16QAM RB Size 1 & RB Offset 99)
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Date: 11.NOV.2015 02:58:20

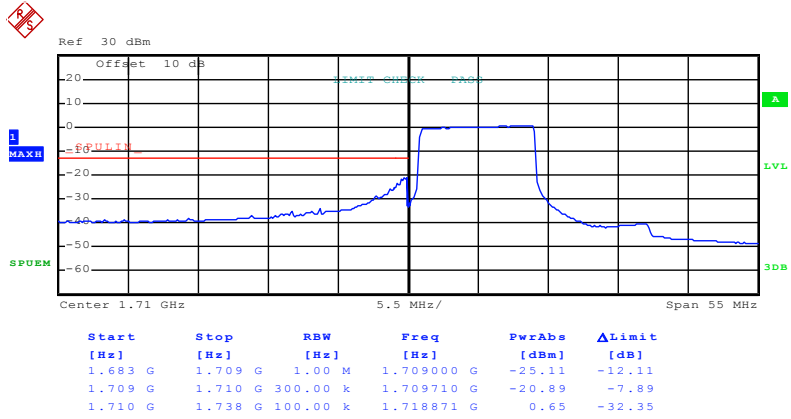
### Lowest channel



Date: 11.NOV.2015 03:36:07

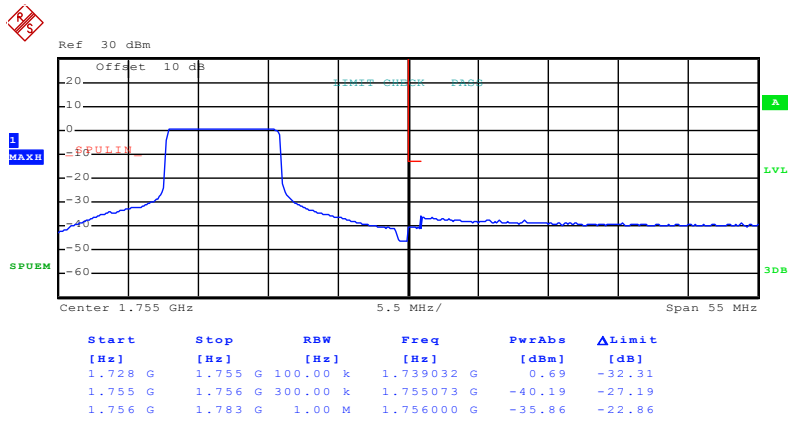
### Highest channel

Test Mode:	LTE band 4(16QAM RB Size 50 & RB Offset 0)
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Date: 11.NOV.2015 02:59:53

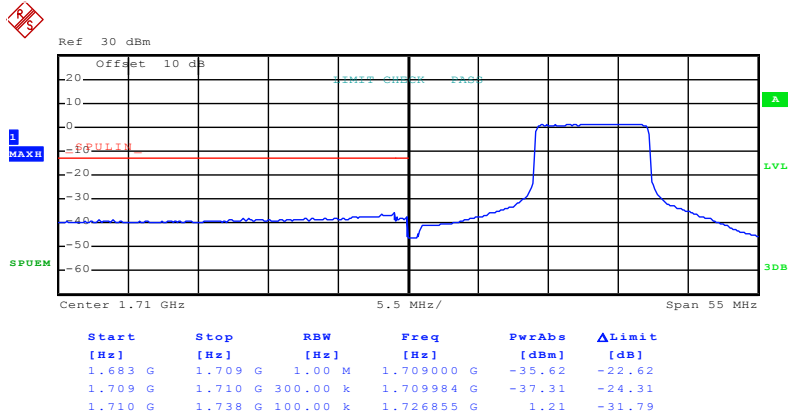
### Lowest channel



Date: 11.NOV.2015 03:36:59

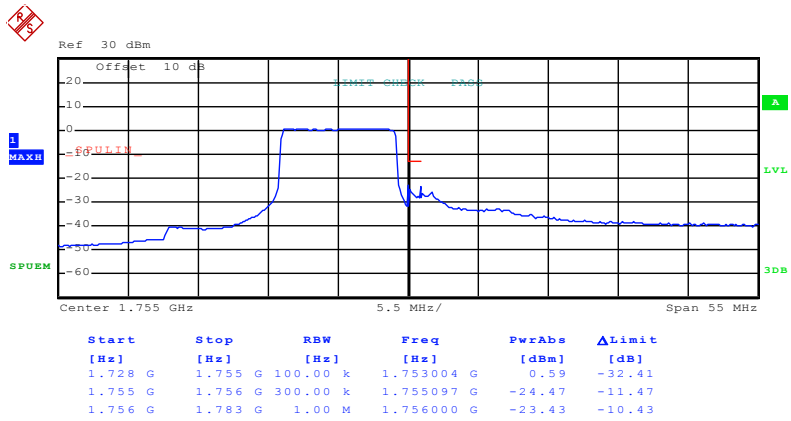
### Highest channel

Test Mode:	LTE band 4(16QAM RB Size 50 & RB Offset 49)
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Date: 11.NOV.2015 03:00:10

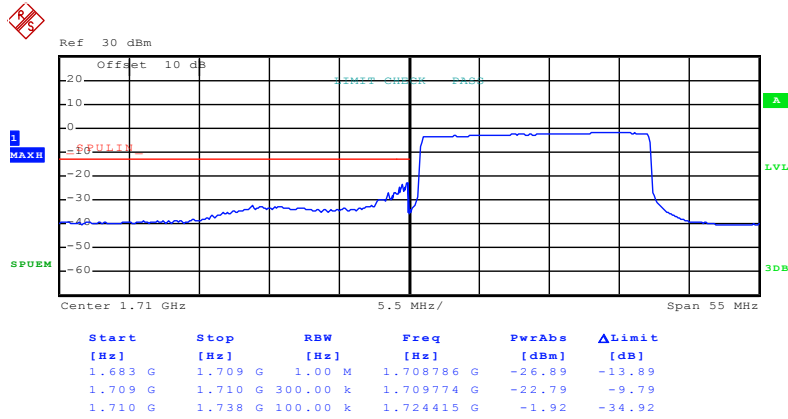
Lowest channel



Date: 11.NOV.2015 03:37:14

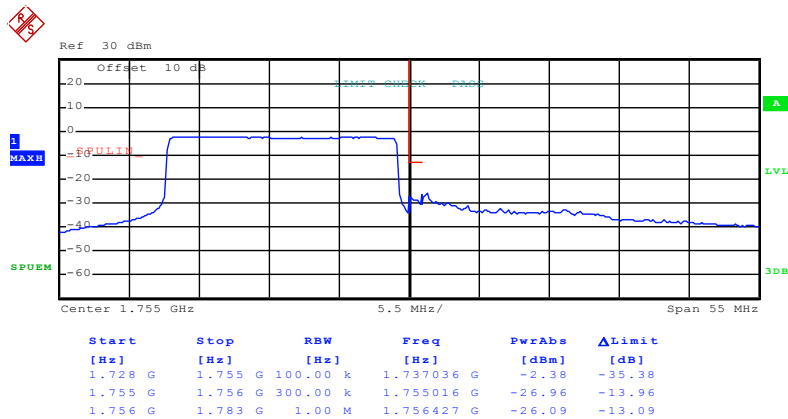
Highest channel

Test Mode: LTE band 4(16QAM RB Size 100 & RB Offset 0)



Date: 11.NOV.2015 03:02:18

Lowest channel



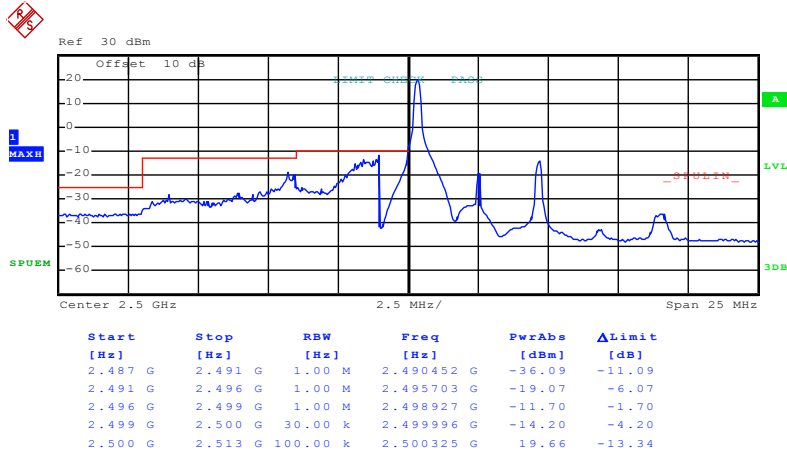
Date: 11.NOV.2015 03:38:52

Highest channel

LTE band 7 part:

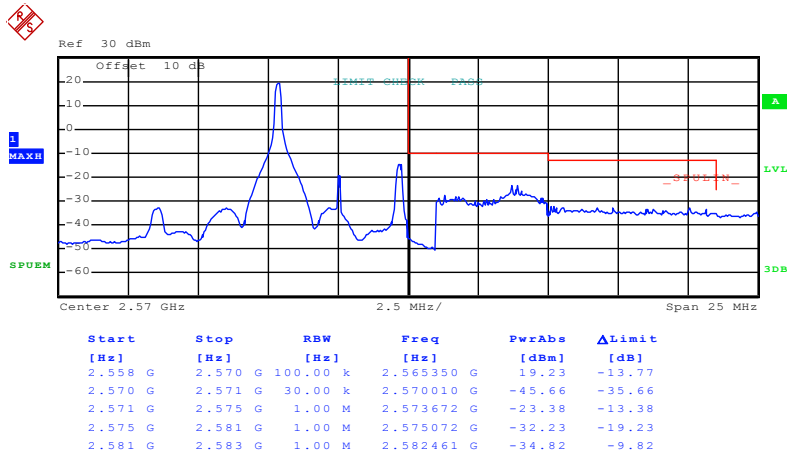
5MHz:

Test Mode:	LTE band 7(QPSK RB Size 1 & RB Offset 0)
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Date: 10.NOV.2015 11:32:27

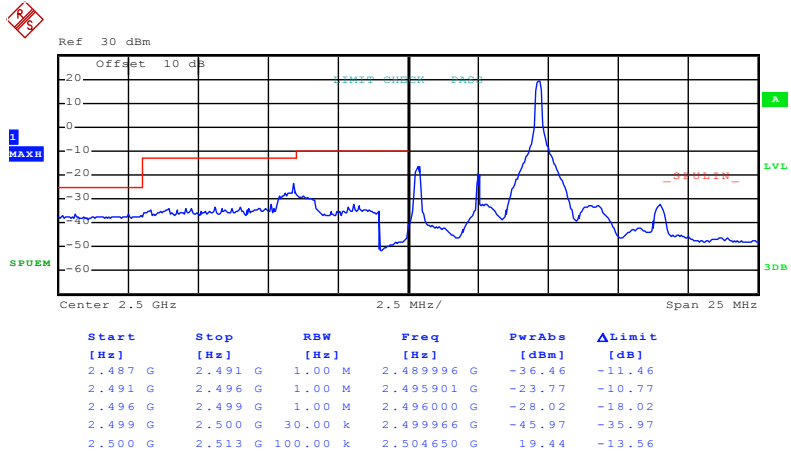
Lowest channel



Date: 10.NOV.2015 11:47:25

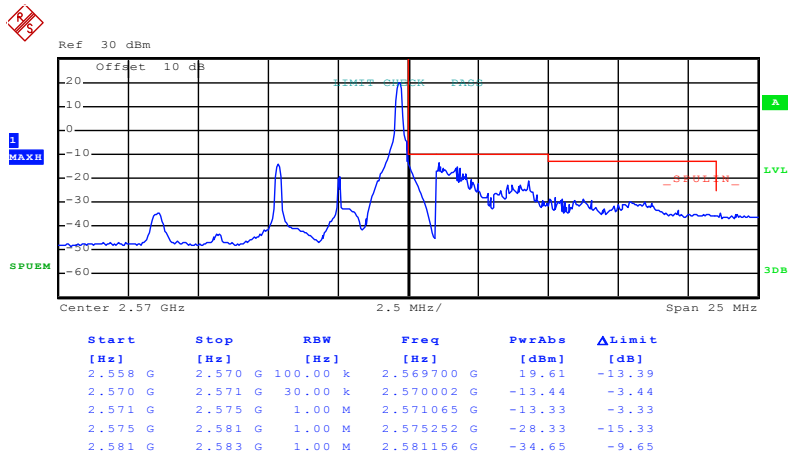
Highest channel

Test Mode: LTE band 7(QPSK RB Size 1 & RB Offset 24)



Date: 10.NOV.2015 11:33:40

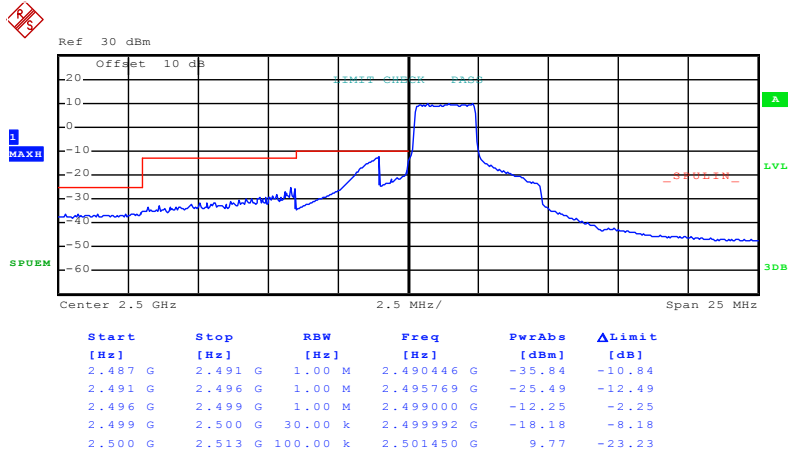
Lowest channel



Date: 10.NOV.2015 11:49:09

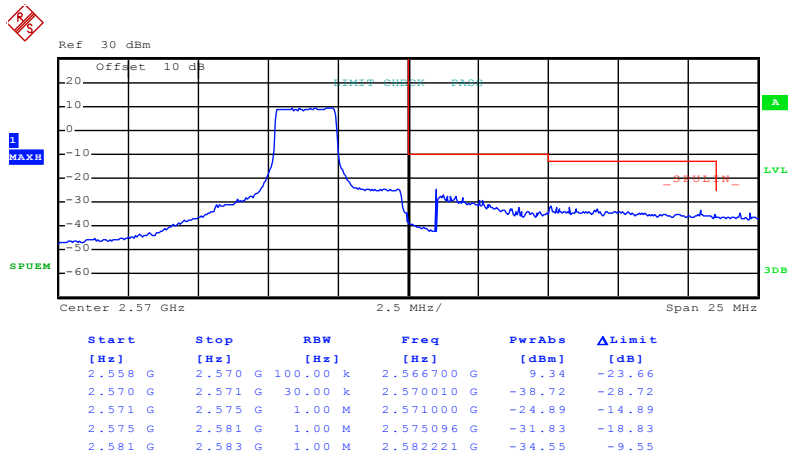
Highest channel

Test Mode:	LTE band 7(QPSK RB Size 12 & RB Offset 0)
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Date: 10.NOV.2015 11:43:02

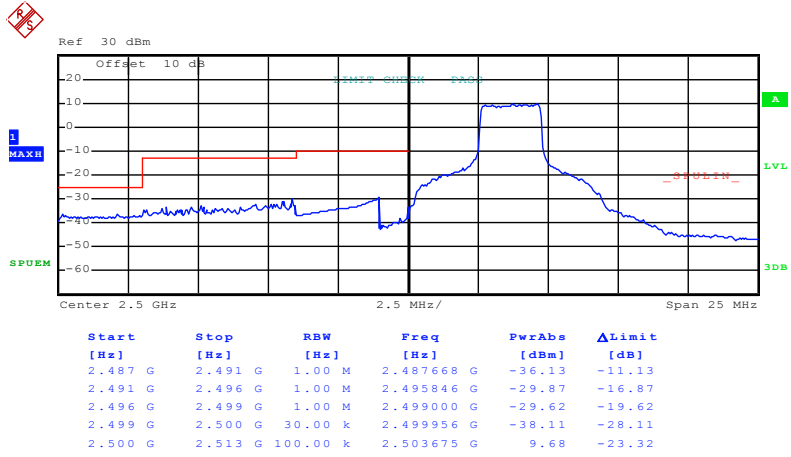
### Lowest channel



Date: 10.NOV.2015 11:49:43

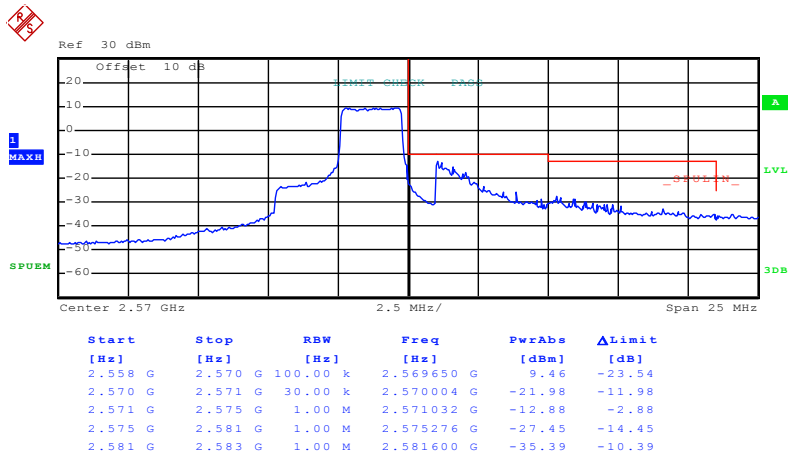
### Highest channel

Test Mode:	LTE band 7(QPSK RB Size 12 & RB Offset 11)
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Date: 10.NOV.2015 11:44:04

### Lowest channel

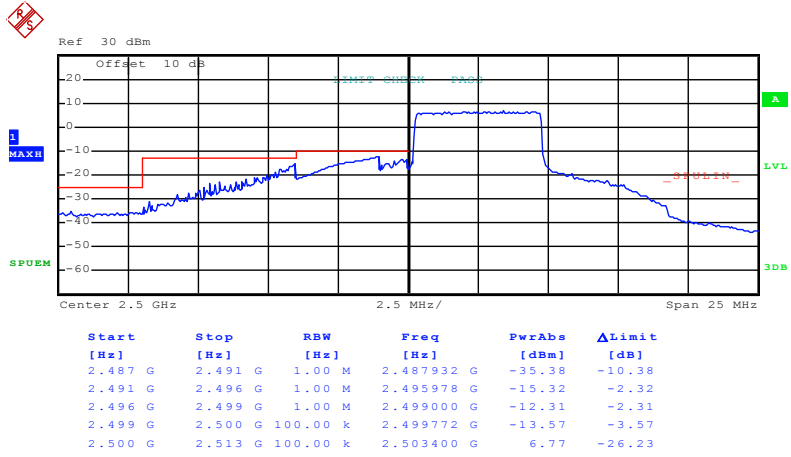


Date: 10.NOV.2015 11:50:27

### Highest channel

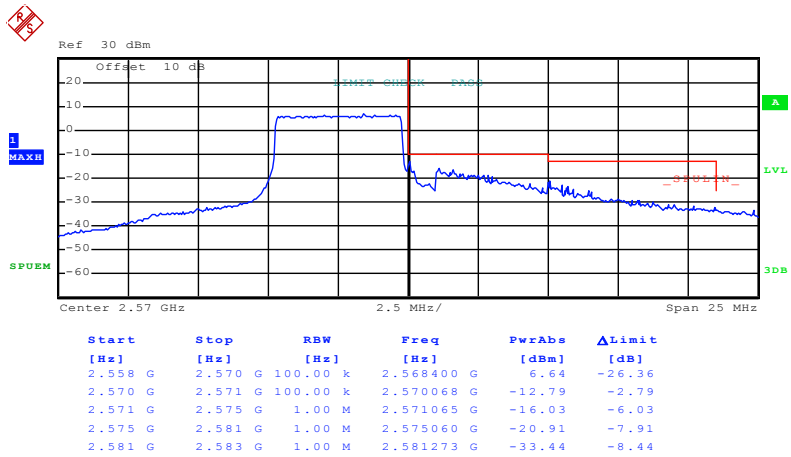


Test Mode:	LTE band 7(QPSK RB Size 25 & RB Offset 0)
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Date: 10.NOV.2015 11:45:23

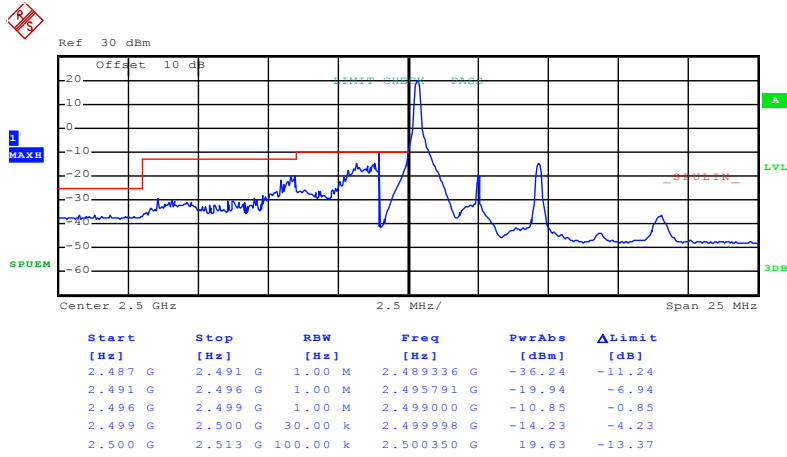
Lowest channel



Date: 10.NOV.2015 11:51:26

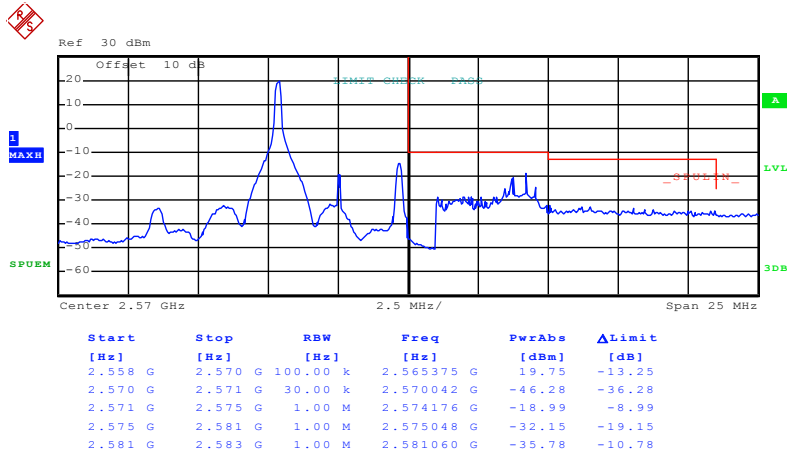
Highest channel

Test Mode: LTE band 7(16QAM RB Size 1 & RB Offset 0)



Date: 10.NOV.2015 11:32:53

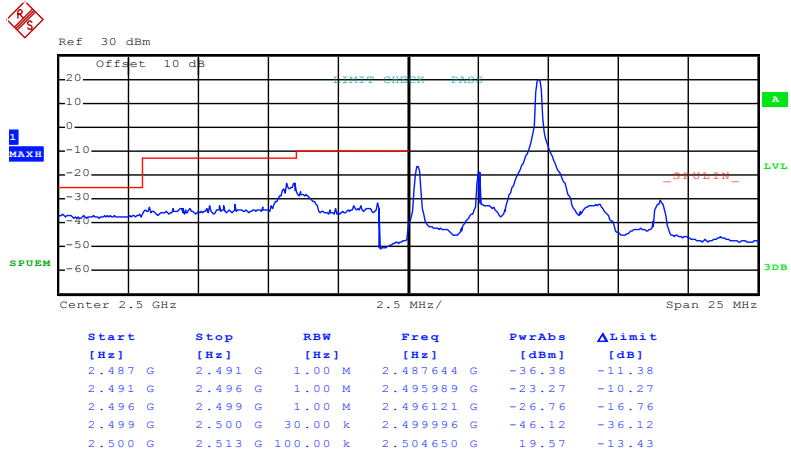
Lowest channel



Date: 10.NOV.2015 11:47:43

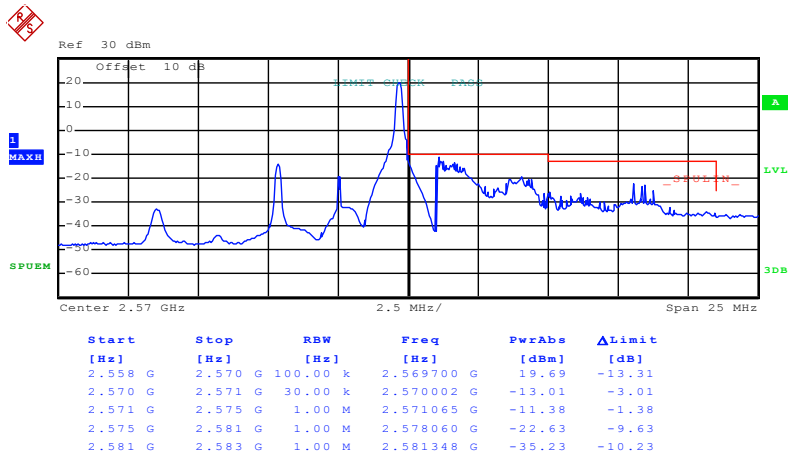
Highest channel

Test Mode:	LTE band 7(16QAM RB Size 1 & RB Offset 24)
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Date: 10.NOV.2015 11:33:25

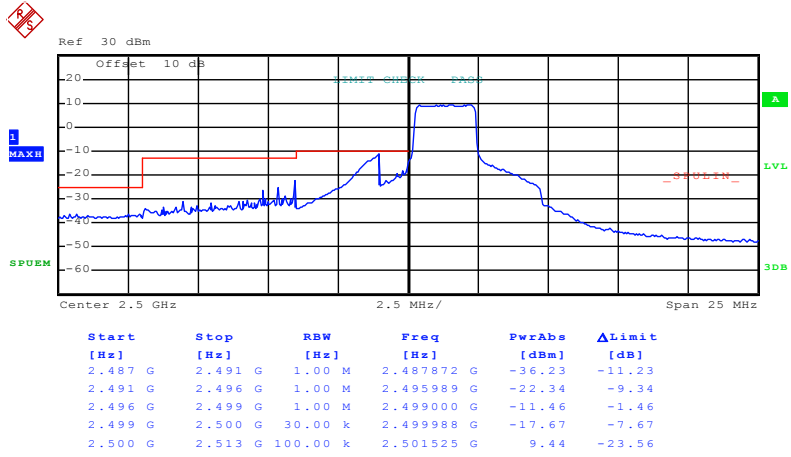
### Lowest channel



Date: 10.NOV.2015 11:48:46

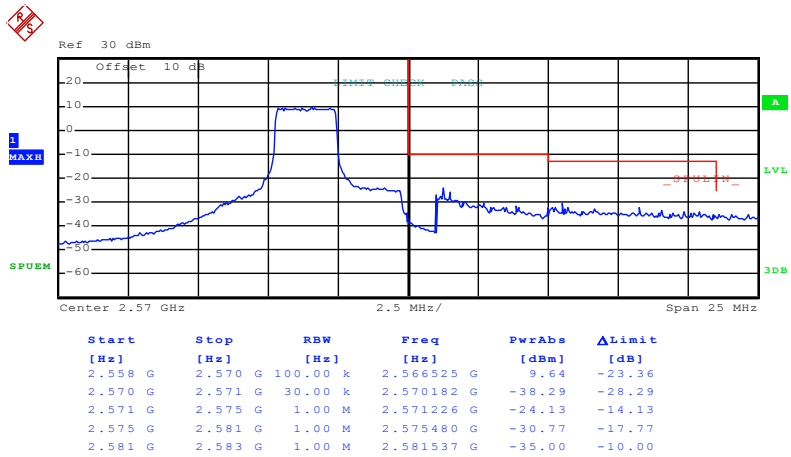
### Highest channel

Test Mode:	LTE band 7(16QAM RB Size 12 & RB Offset 0)
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Date: 10.NOV.2015 11:43:21

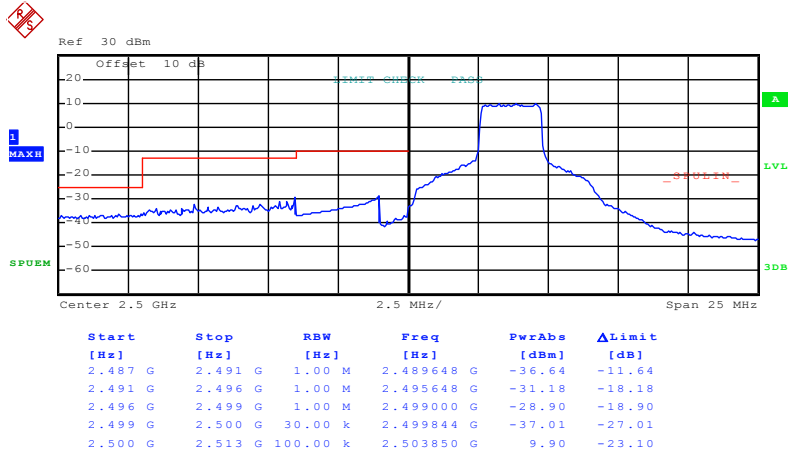
### Lowest channel



Date: 10.NOV.2015 11:49:56

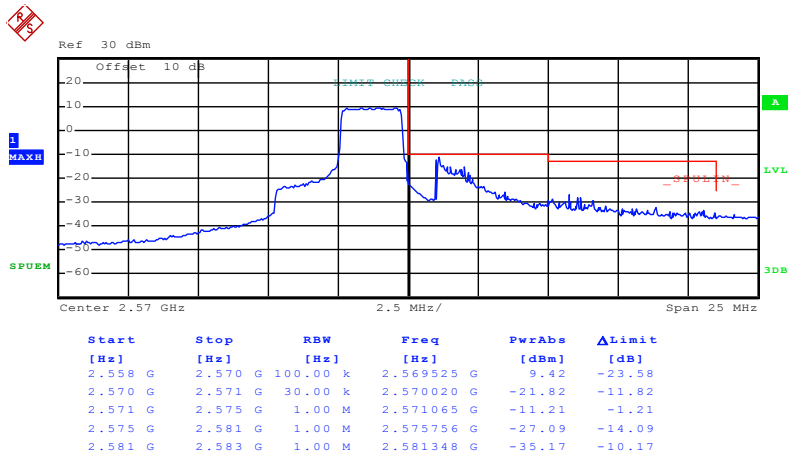
### Highest channel

Test Mode:	LTE band 7(16QAM RB Size 12 & RB Offset 11)
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Date: 10.NOV.2015 11:43:46

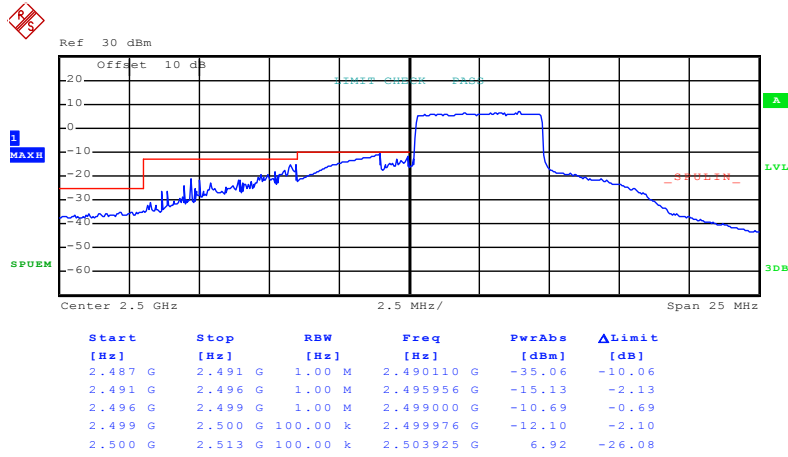
Lowest channel



Date: 10.NOV.2015 11:50:09

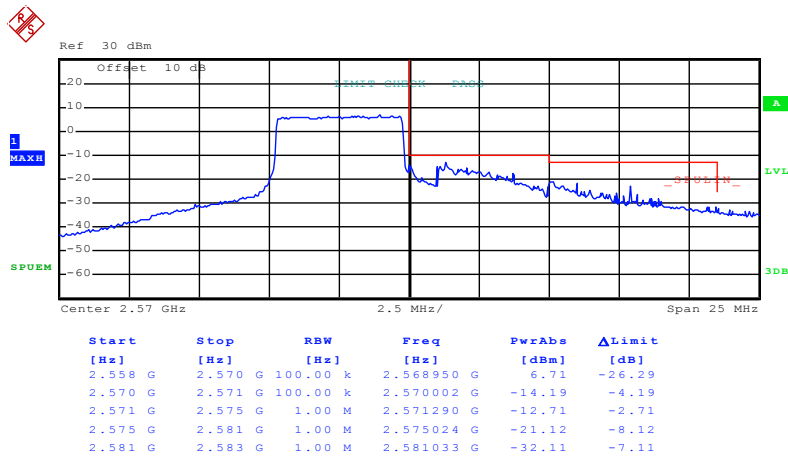
Highest channel

Test Mode: LTE band 7(16QAM RB Size 25 & RB Offset 0)



Date: 10.NOV.2015 11:45:36

Lowest channel

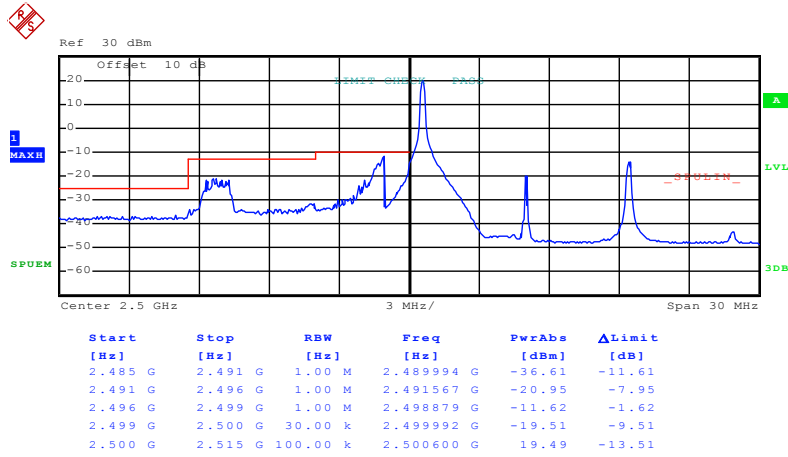


Date: 10.NOV.2015 11:51:41

Highest channel

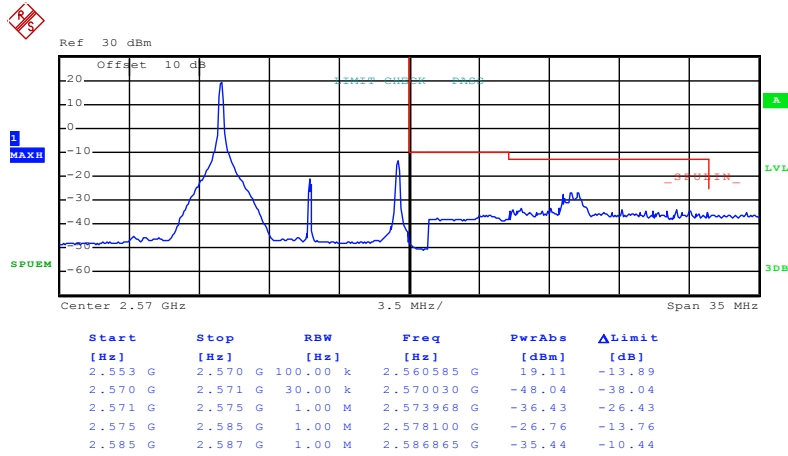
10MHz:

Test Mode:	LTE band 7(QPSK RB Size 1 & RB Offset 0)
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Date: 10.NOV.2015 11:54:47

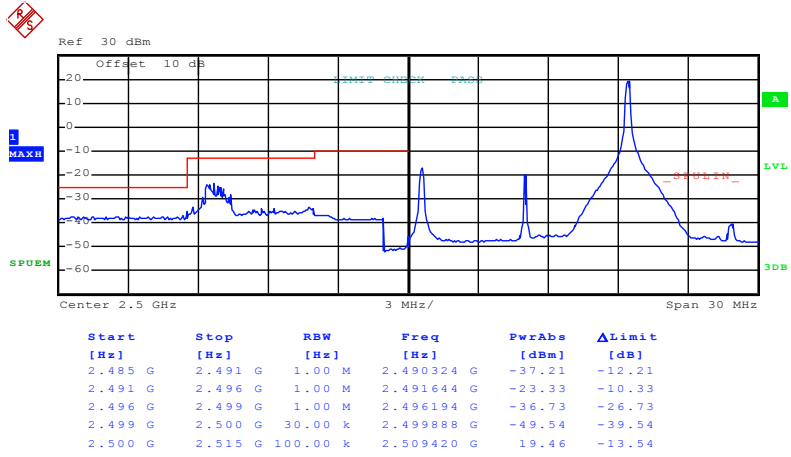
Lowest channel



Date: 10.NOV.2015 12:13:03

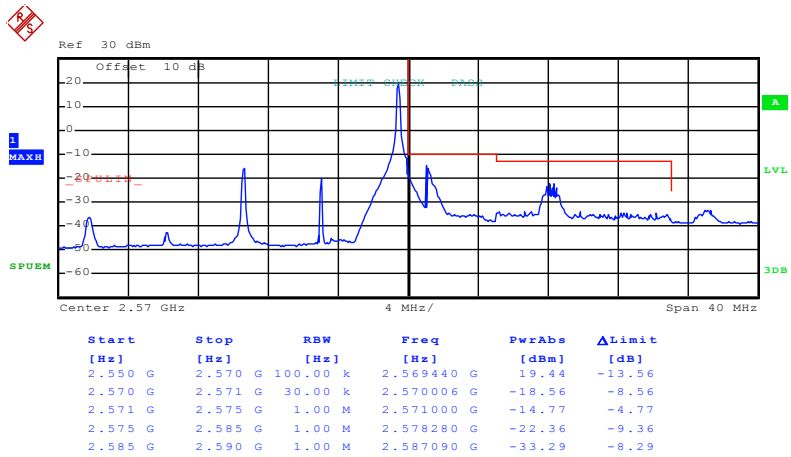
Highest channel

Test Mode:	LTE band 7(QPSK RB Size 1 & RB Offset 49)
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Date: 10.NOV.2015 11:56:15

### Lowest channel

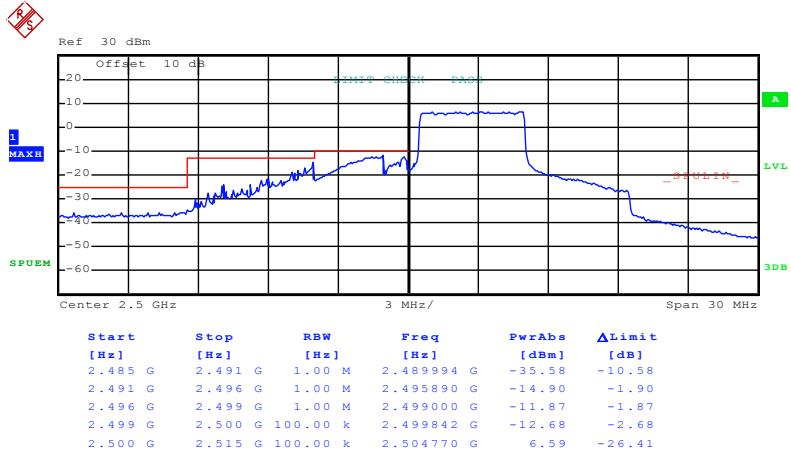


Date: 10.NOV.2015 12:15:09

### Highest channel

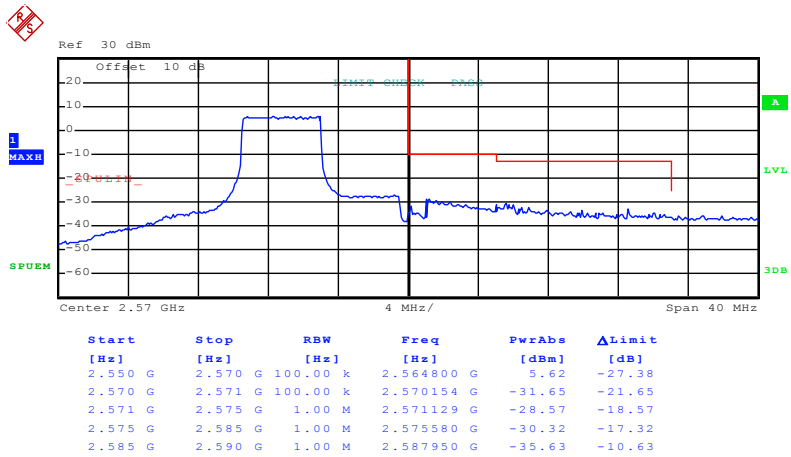


Test Mode:	LTE band 7(QPSK RB Size 25 & RB Offset 0)
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Date: 10.NOV.2015 11:57:44

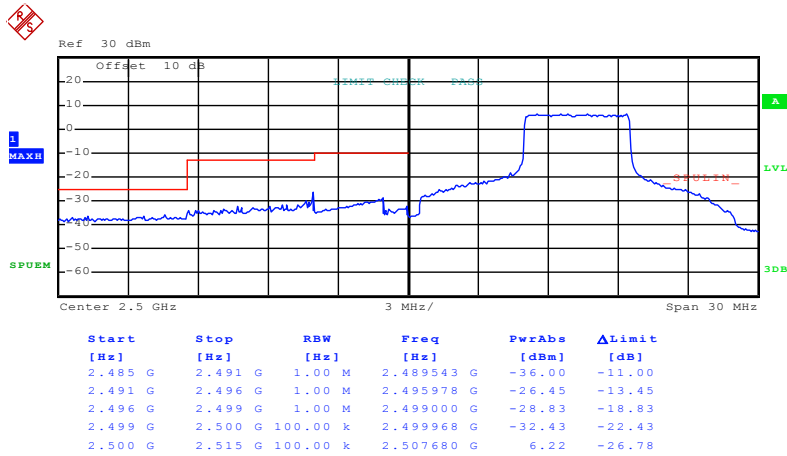
Lowest channel



Date: 10.NOV.2015 12:16:02

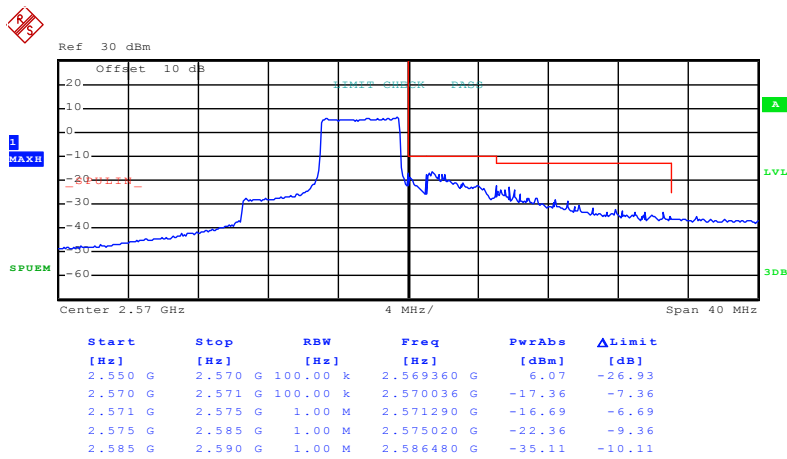
Highest channel

Test Mode:	LTE band 7(QPSK RB Size 25 & RB Offset 24)
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Date: 10.NOV.2015 11:58:30

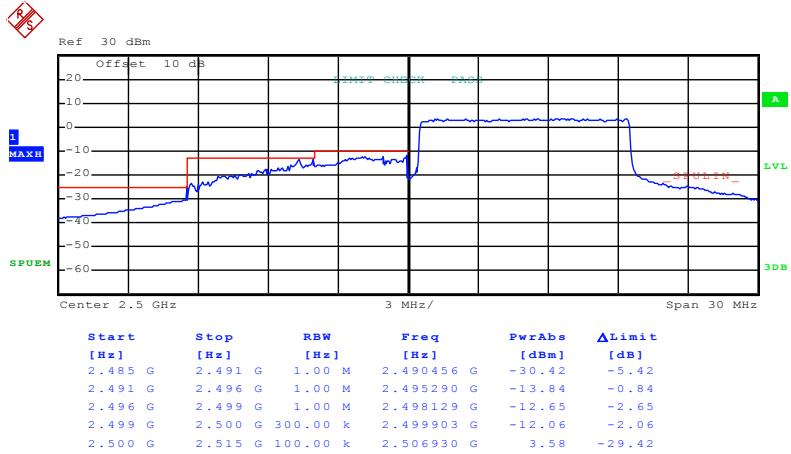
### Lowest channel



Date: 10.NOV.2015 12:16:47

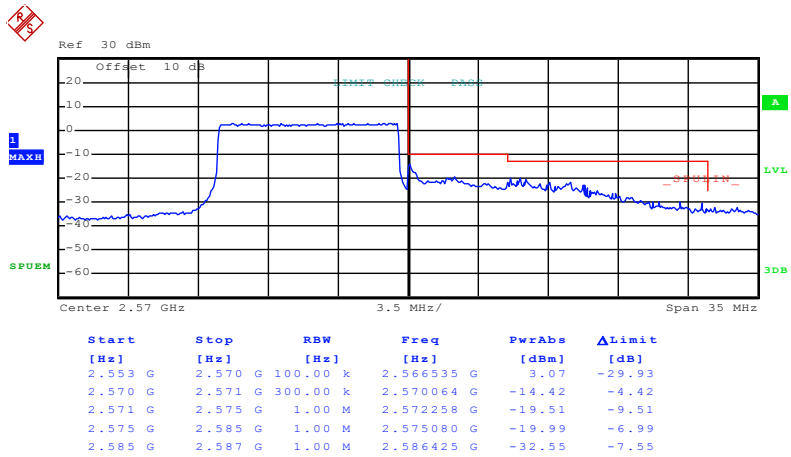
### Highest channel

Test Mode:	LTE band 7(QPSK RB Size 50 & RB Offset 0)
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Date: 10.NOV.2015 12:04:20

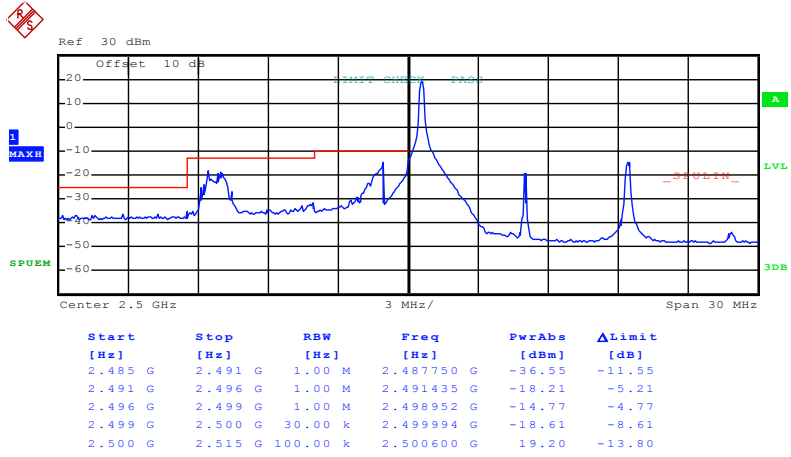
### Lowest channel



Date: 10.NOV.2015 12:12:21

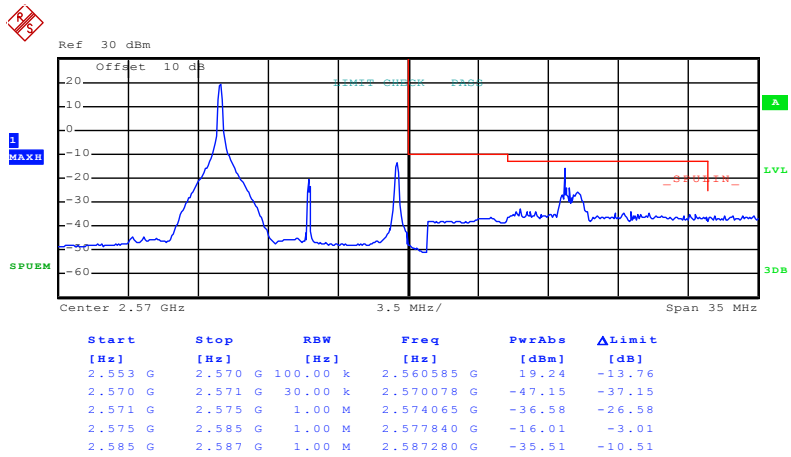
### Highest channel

Test Mode:	LTE band 7(16QAM RB Size 1 & RB Offset 0)
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Date: 10.NOV.2015 11:55:43

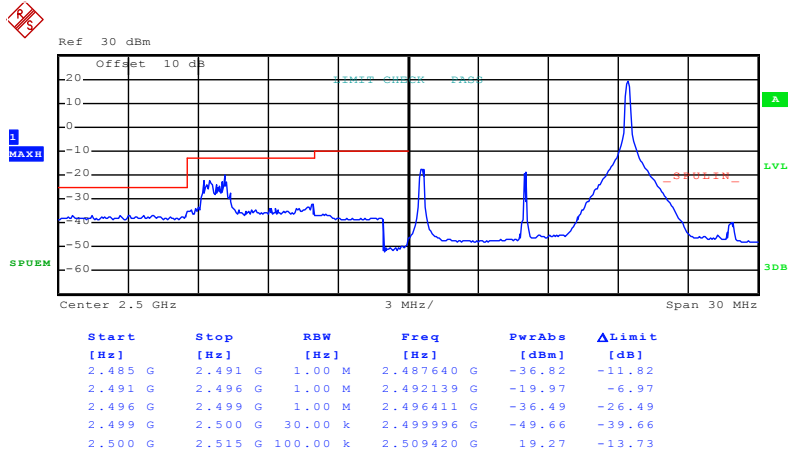
Lowest channel



Date: 10.NOV.2015 12:13:24

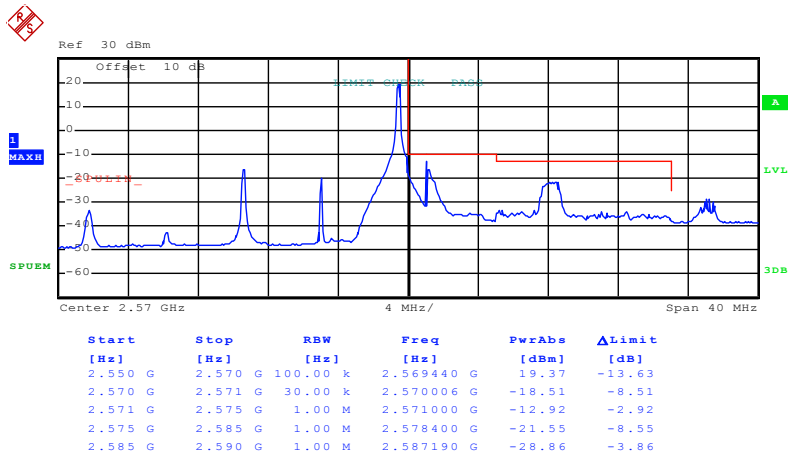
Highest channel

Test Mode:	LTE band 7(16QAM RB Size 1 & RB Offset 49)
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Date: 10.NOV.2015 11:56:01

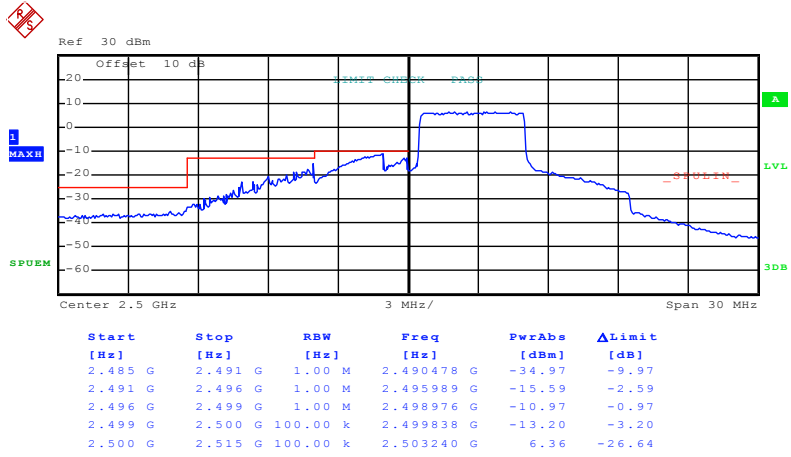
### Lowest channel



Date: 10.NOV.2015 12:14:52

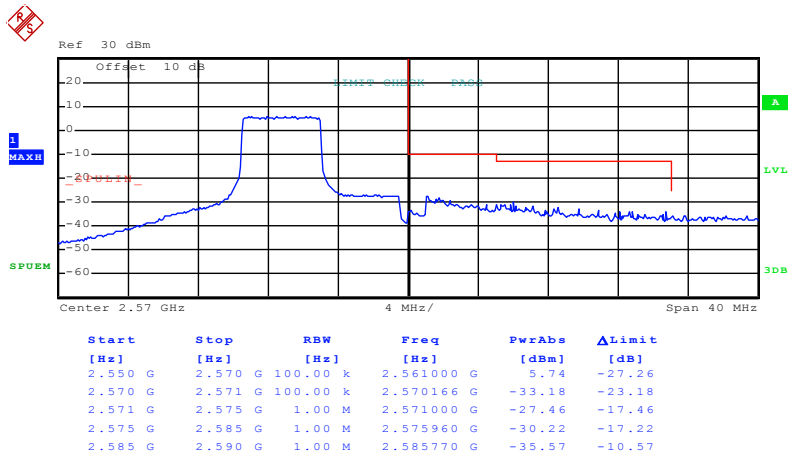
### Highest channel

Test Mode:	LTE band 7(16QAM RB Size 25 & RB Offset 0)
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Date: 10.NOV.2015 11:58:01

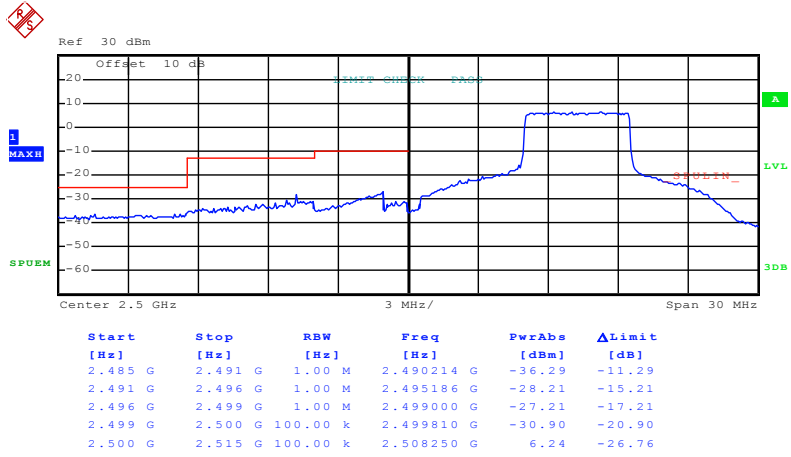
### Lowest channel



Date: 10.NOV.2015 12:16:17

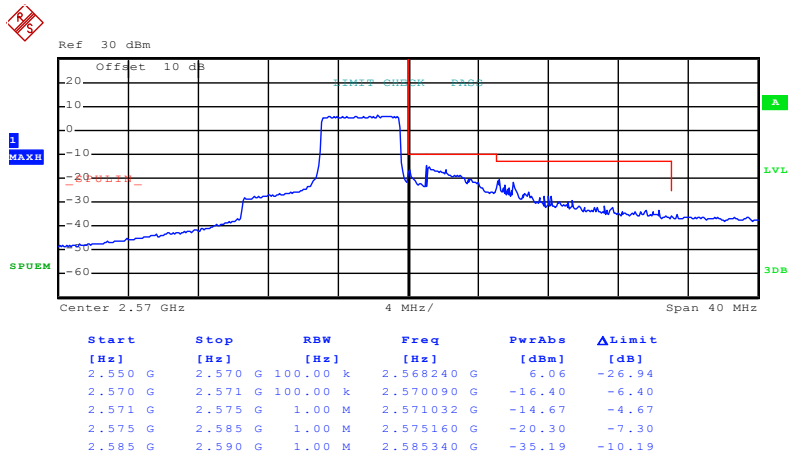
### Highest channel

Test Mode:	LTE band 7(16QAM RB Size 25 & RB Offset 24)
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Date: 10.NOV.2015 11:58:16

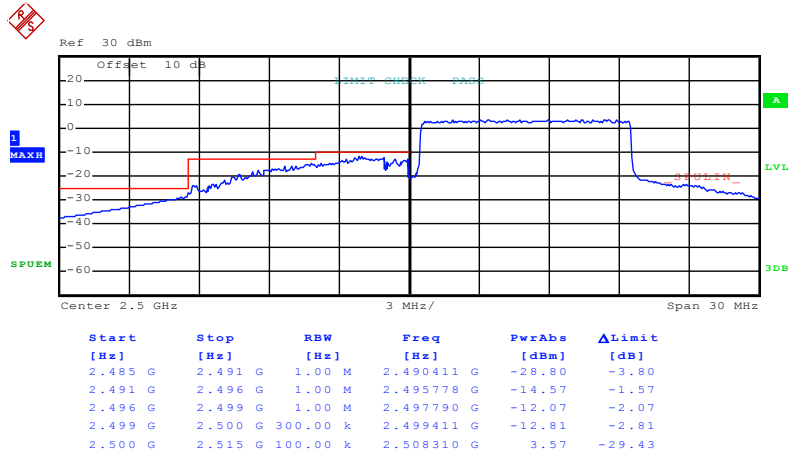
Lowest channel



Date: 10.NOV.2015 12:16:31

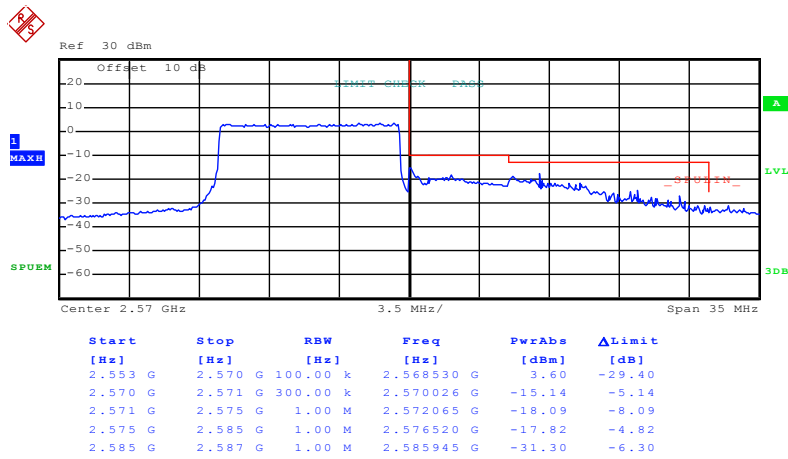
Highest channel

Test Mode: LTE band 7(16QAM RB Size 50 & RB Offset 0)



Date: 10.NOV.2015 12:04:38

Lowest channel



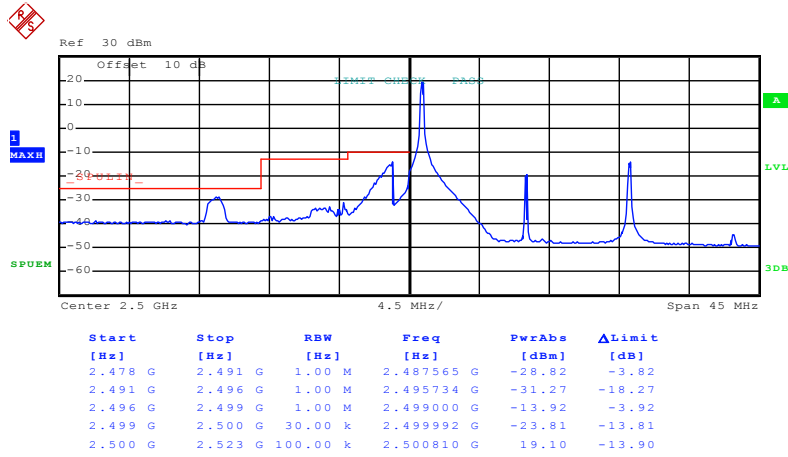
Date: 10.NOV.2015 12:12:33

Highest channel



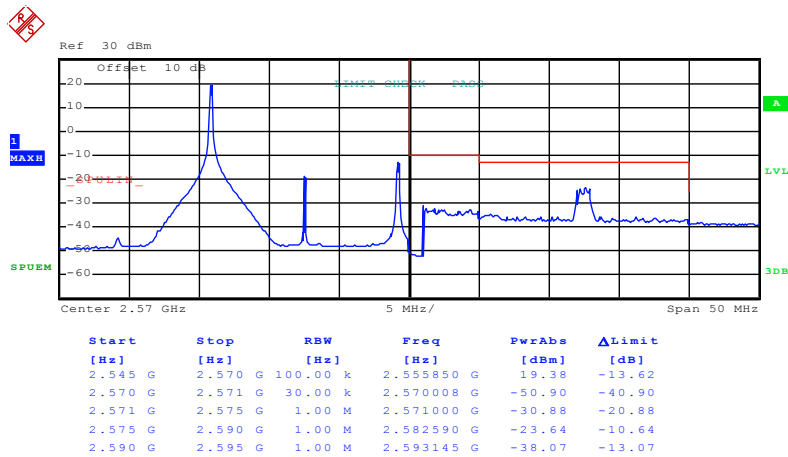
15MHz:

Test Mode:	LTE band 7(QPSK RB Size 1 & RB Offset 0)
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Date: 10.NOV.2015 12:20:39

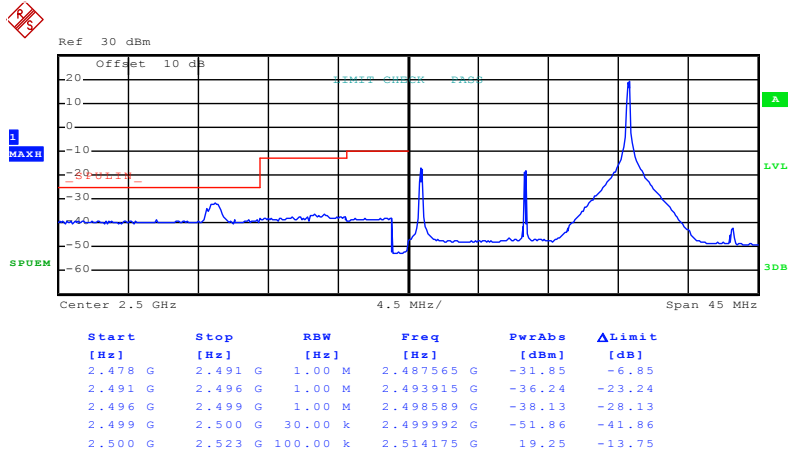
Lowest channel



Date: 10.NOV.2015 12:44:26

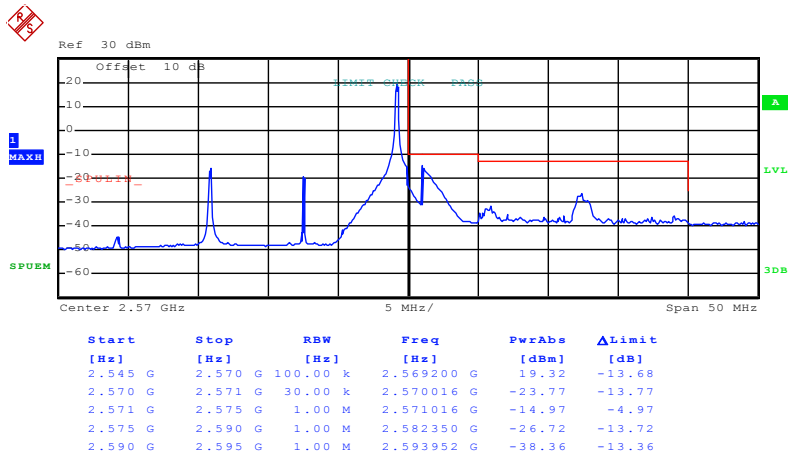
Highest channel

Test Mode:	LTE band 7(QPSK RB Size 1 & RB Offset 74)
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Date: 10.NOV.2015 12:21:26

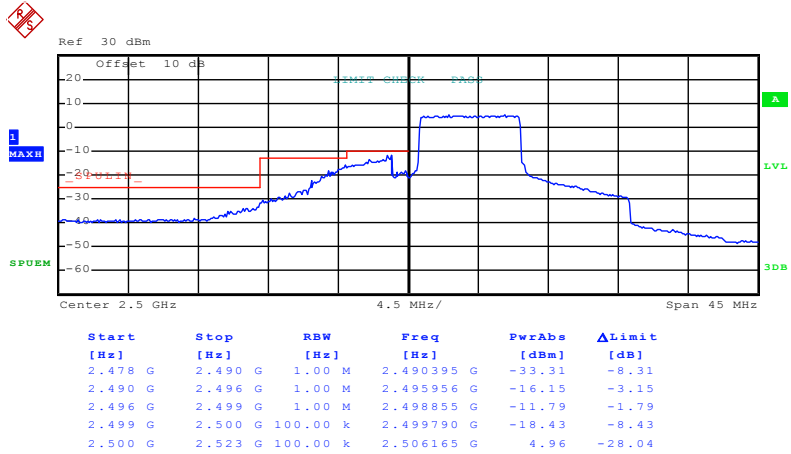
### Lowest channel



Date: 10.NOV.2015 12:48:14

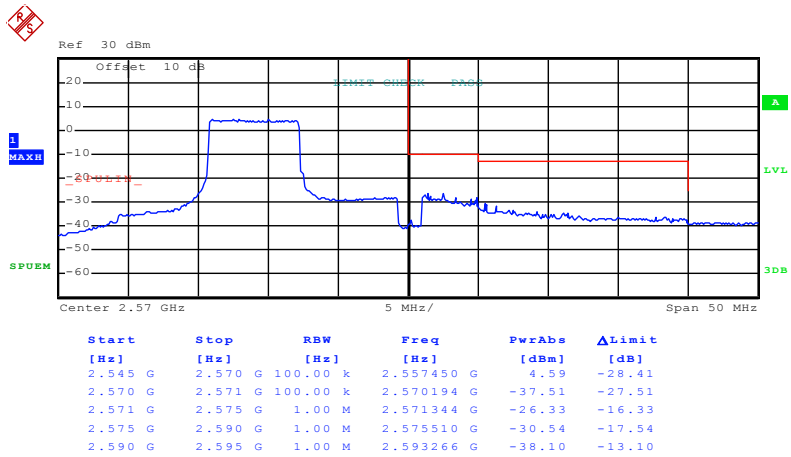
### Highest channel

Test Mode:	LTE band 7(QPSK RB Size 36 & RB Offset 0)
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Date: 10.NOV.2015 12:33:53

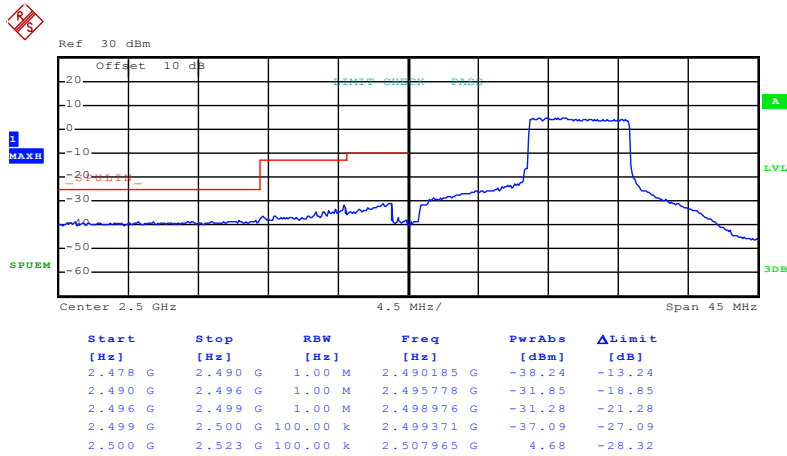
### Lowest channel



Date: 10.NOV.2015 12:49:15

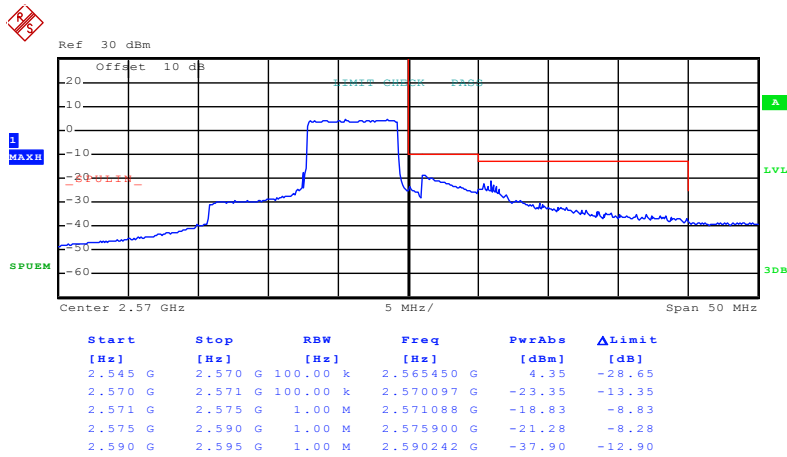
### Highest channel

Test Mode:	LTE band 7(QPSK RB Size 36 & RB Offset 37)
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Date: 10.NOV.2015 12:34:40

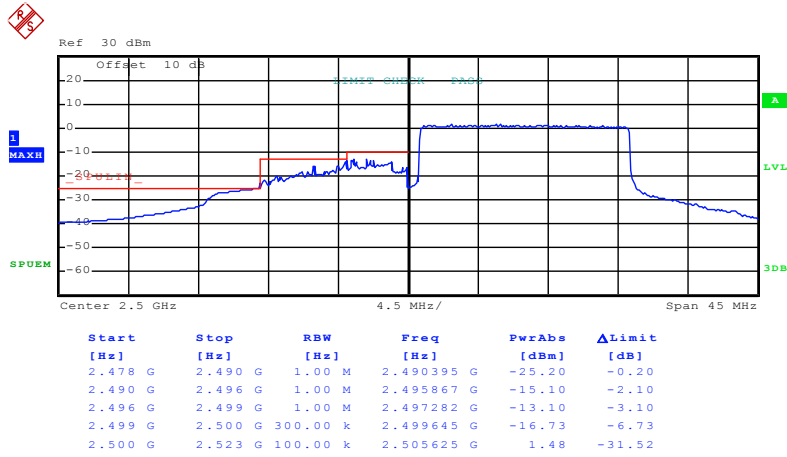
### Lowest channel



Date: 10.NOV.2015 12:50:24

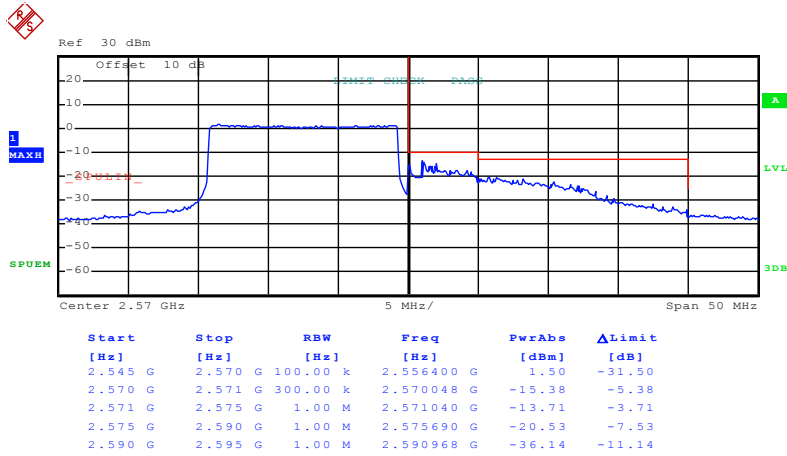
### Highest channel

Test Mode: LTE band 7(QPSK RB Size 75 & RB Offset 0)



Date: 10.NOV.2015 12:42:39

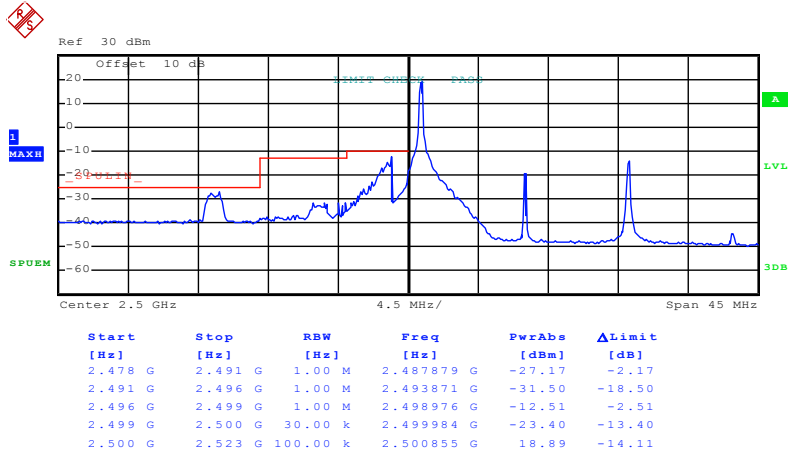
Lowest channel



Date: 10.NOV.2015 12:51:19

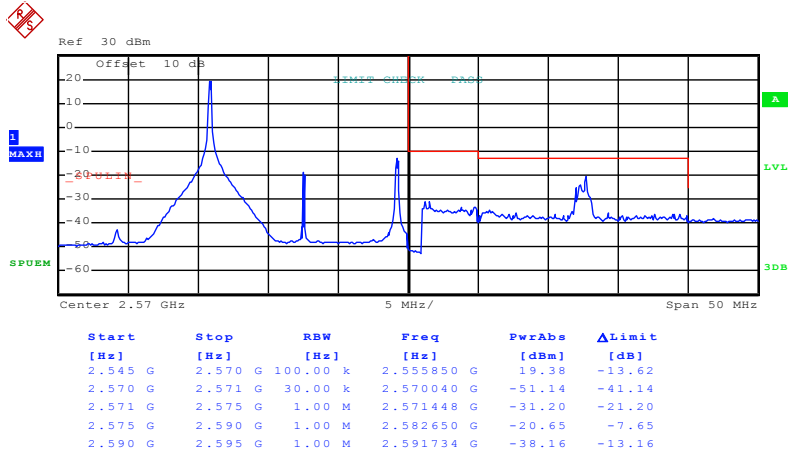
Highest channel

Test Mode:	LTE band 7(16QAM RB Size 1 & RB Offset 0)
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Date: 10.NOV.2015 12:20:58

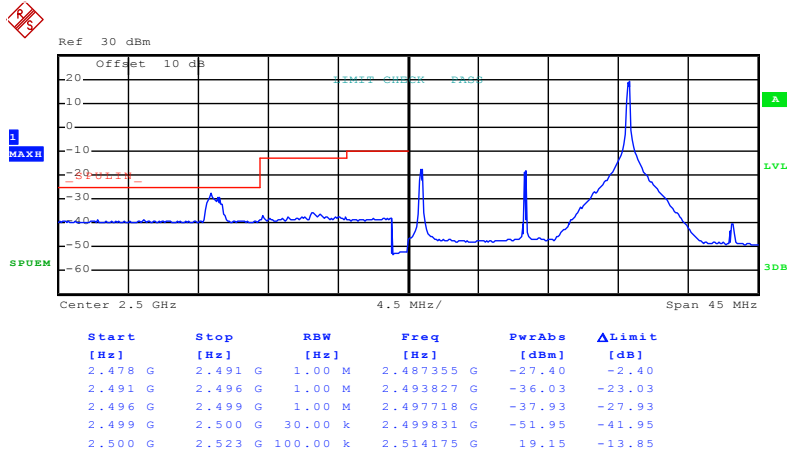
Lowest channel



Date: 10.NOV.2015 12:46:58

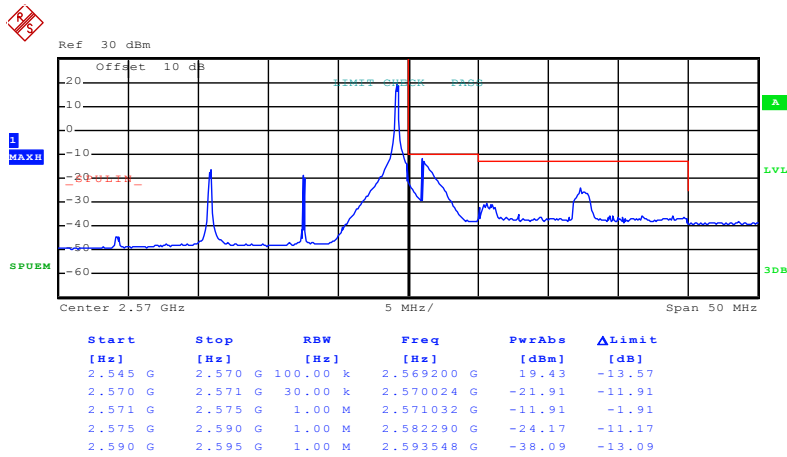
Highest channel

Test Mode:	LTE band 7(16QAM RB Size 1 & RB Offset 74)
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Date: 10.NOV.2015 12:21:13

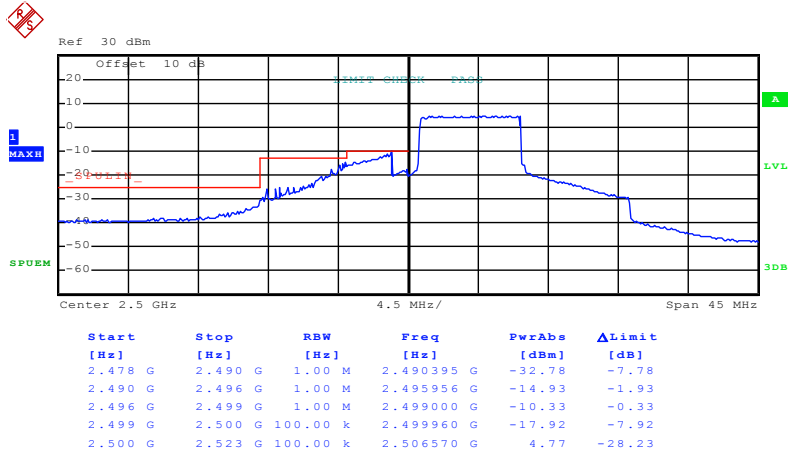
### Lowest channel



Date: 10.NOV.2015 12:48:00

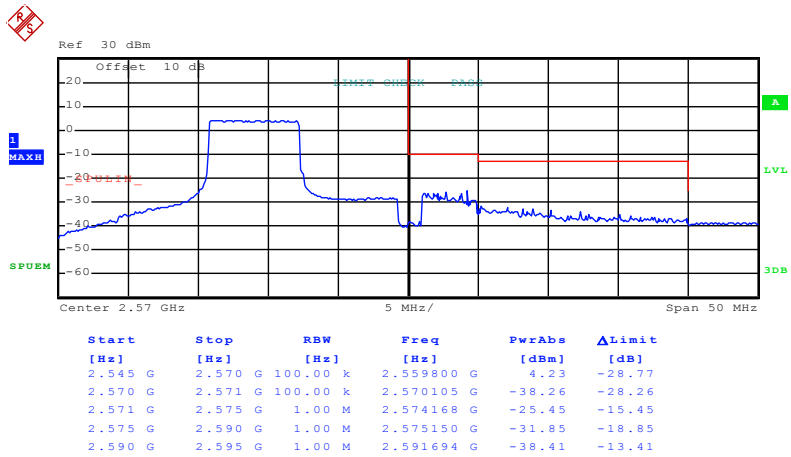
### Highest channel

Test Mode:	LTE band 7(16QAM RB Size 36 & RB Offset 0)
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Date: 10.NOV.2015 12:34:07

### Lowest channel

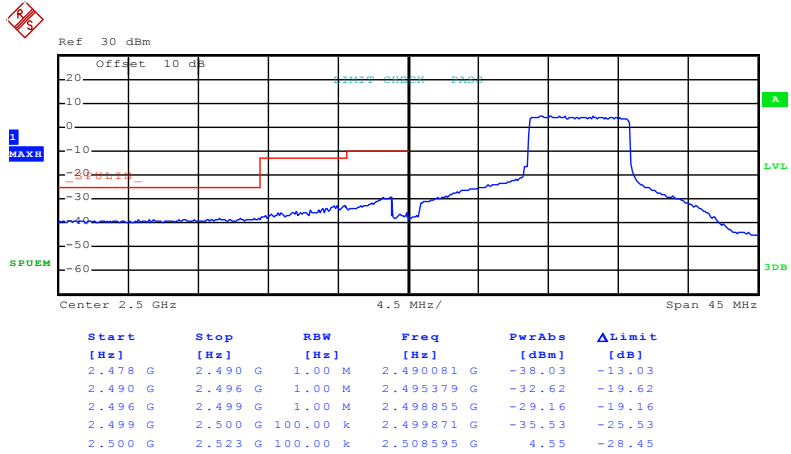


Date: 10.NOV.2015 12:49:32

### Highest channel

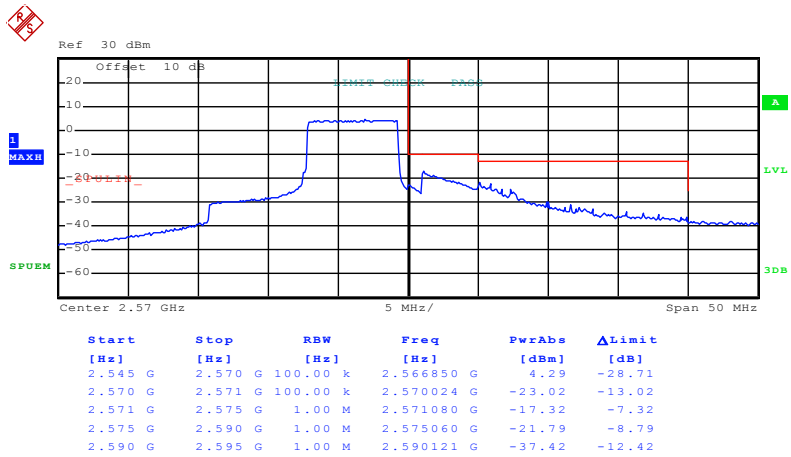


Test Mode:	LTE band 7(16QAM RB Size 36 & RB Offset 37)
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Date: 10.NOV.2015 12:34:24

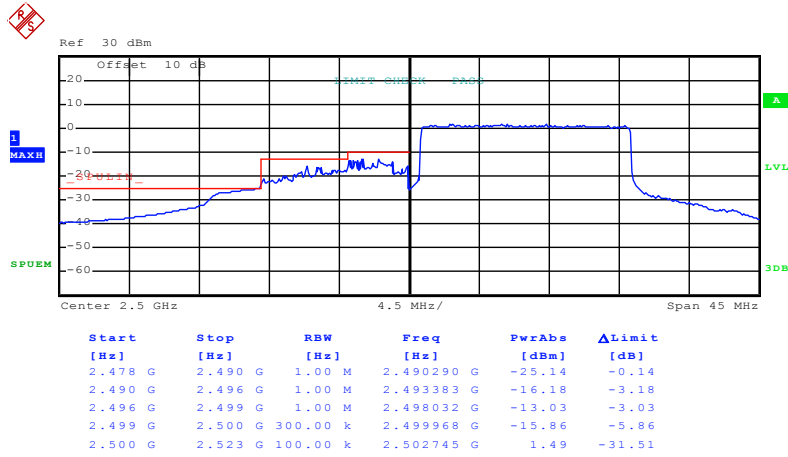
### Lowest channel



Date: 10.NOV.2015 12:50:10

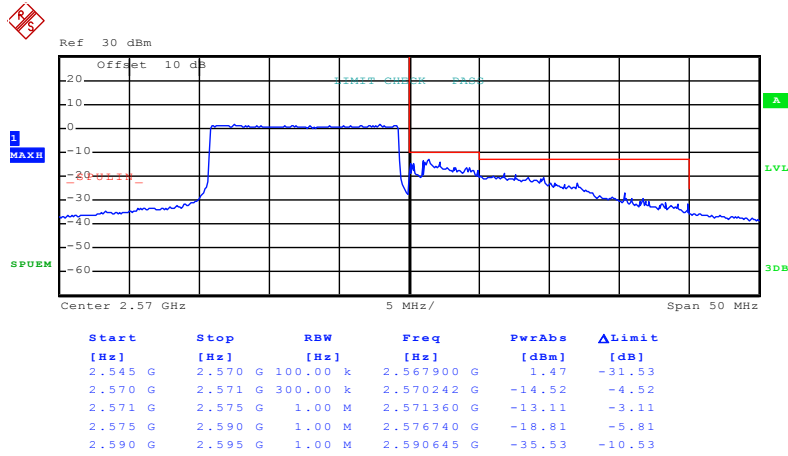
### Highest channel

Test Mode: LTE band 7(16QAM RB Size 75 & RB Offset 0)



Date: 10.NOV.2015 12:41:57

Lowest channel

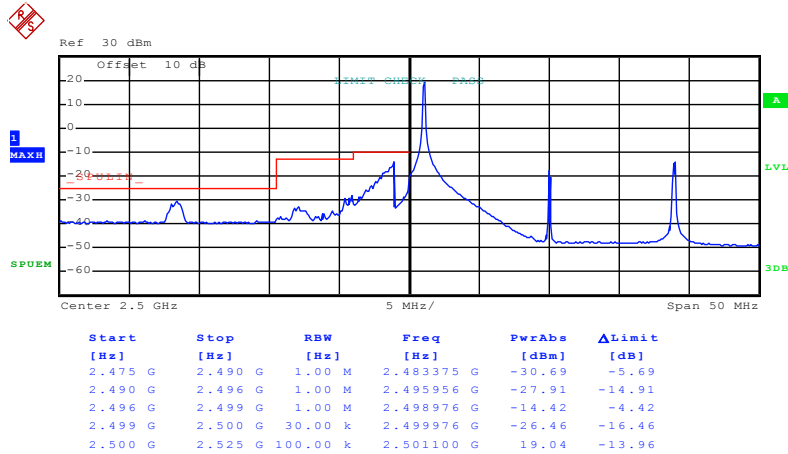


Date: 10.NOV.2015 12:51:32

Highest channel

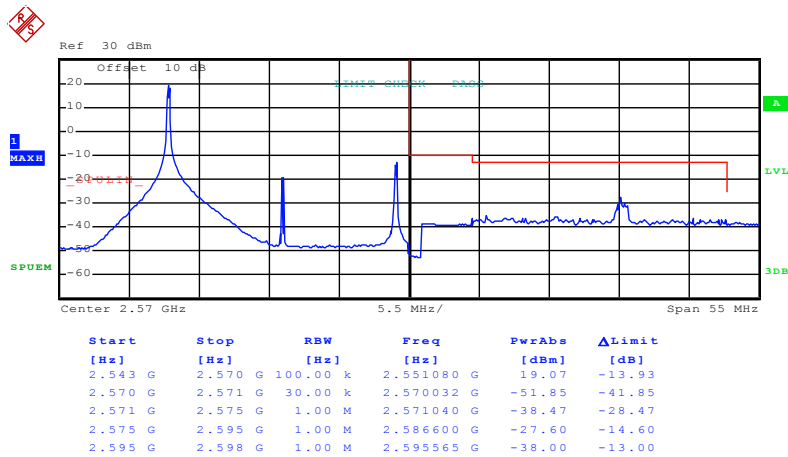
20MHz:

Test Mode:	LTE band 7(QPSK RB Size 1 & RB Offset 0)
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Date: 10.NOV.2015 12:53:19

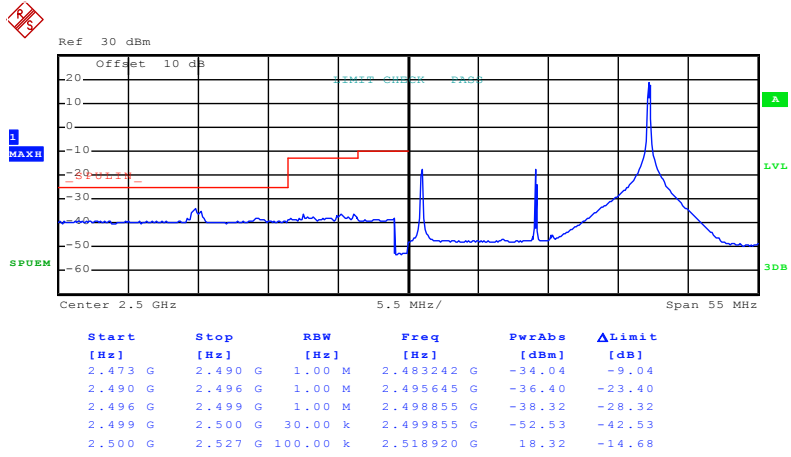
Lowest channel



Date: 10.NOV.2015 13:09:25

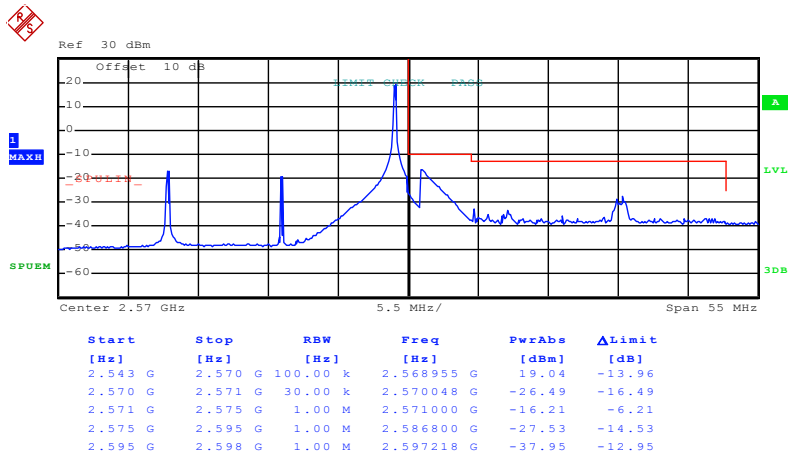
Highest channel

Test Mode:	LTE band 7(QPSK RB Size 1 & RB Offset 99)
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Date: 10.NOV.2015 12:54:43

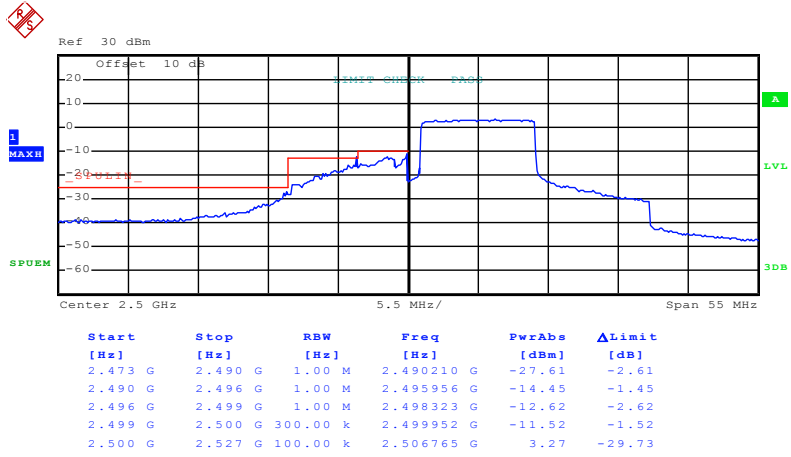
### Lowest channel



Date: 10.NOV.2015 13:10:17

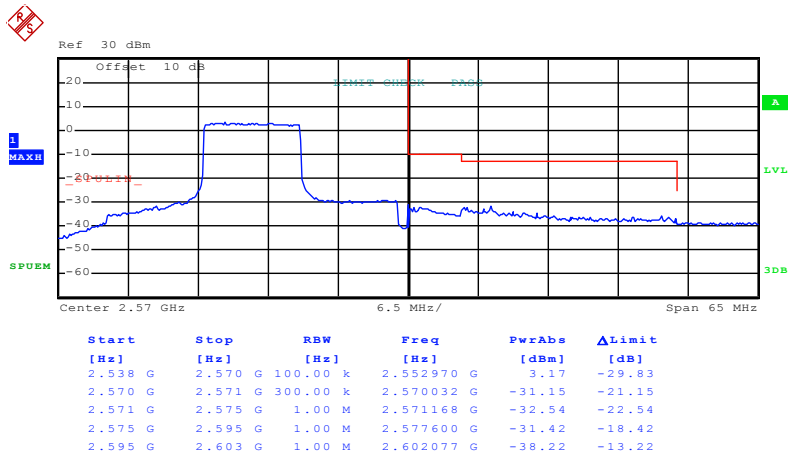
### Highest channel

Test Mode:	LTE band 7(QPSK RB Size 50 & RB Offset 0)
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Date: 10.NOV.2015 12:55:16

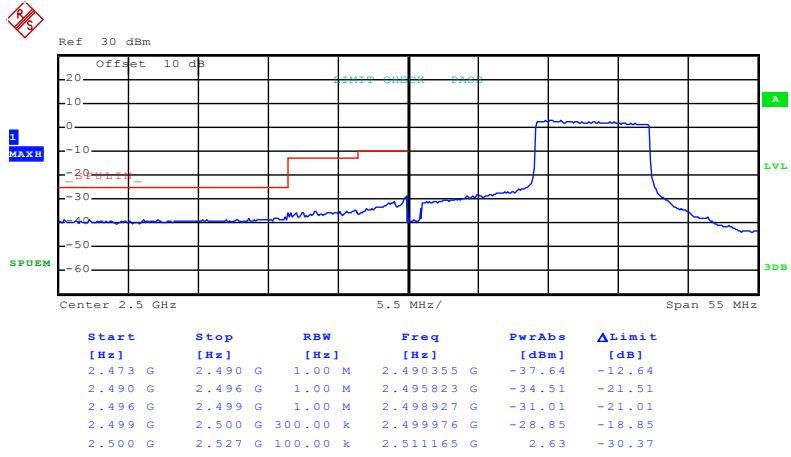
Lowest channel



Date: 10.NOV.2015 13:11:38

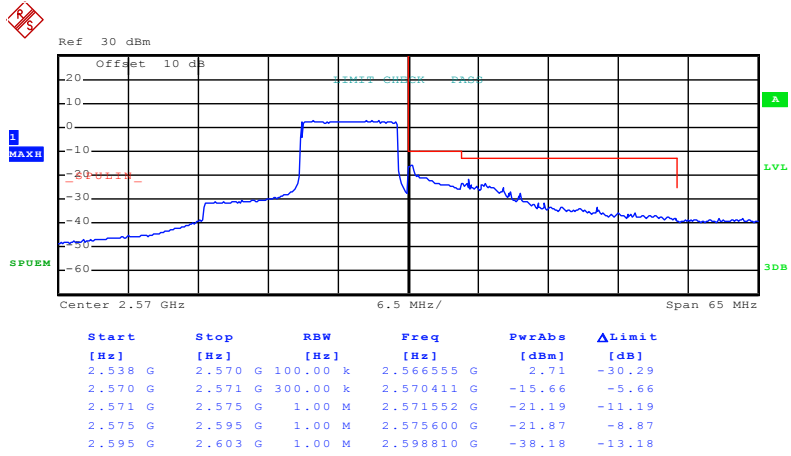
Highest channel

Test Mode:	LTE band 7(QPSK RB Size 50 & RB Offset 49)
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Date: 10.NOV.2015 12:55:58

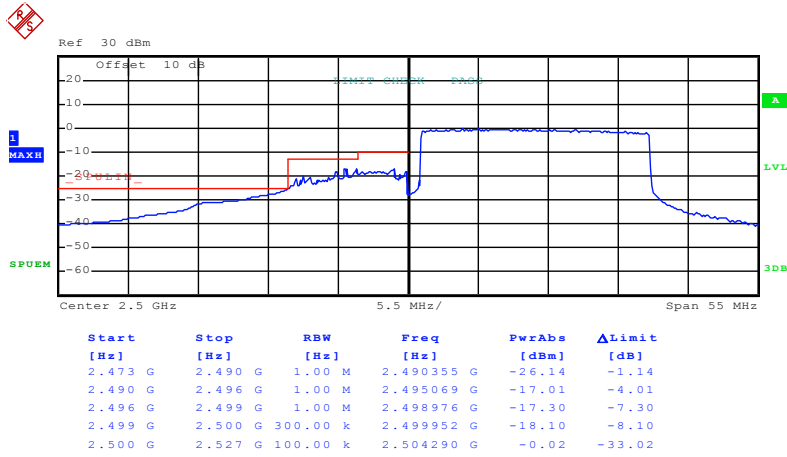
### Lowest channel



Date: 10.NOV.2015 13:12:32

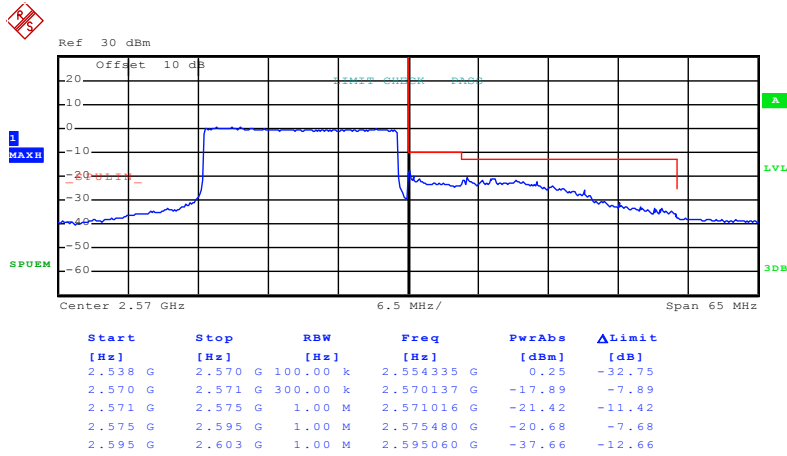
### Highest channel

Test Mode: LTE band 7(QPSK RB Size 100 & RB Offset 0)



Date: 10.NOV.2015 12:56:49

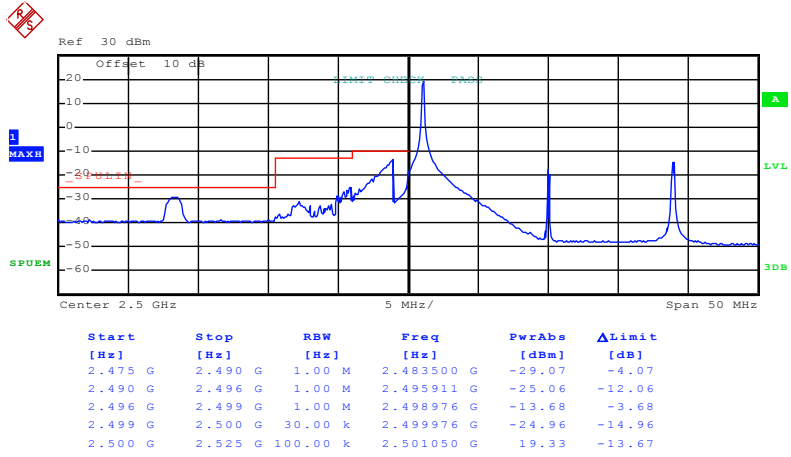
Lowest channel



Date: 10.NOV.2015 13:14:30

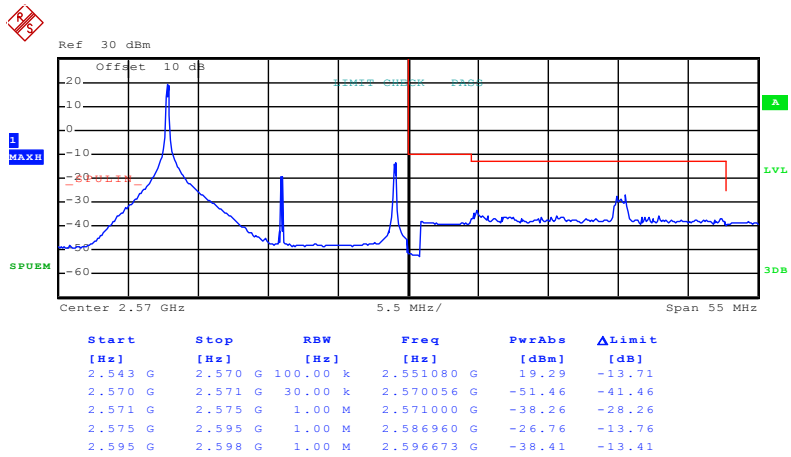
Highest channel

Test Mode: LTE band 7(16QAM RB Size 1 & RB Offset 0)



Date: 10.NOV.2015 12:53:54

Lowest channel

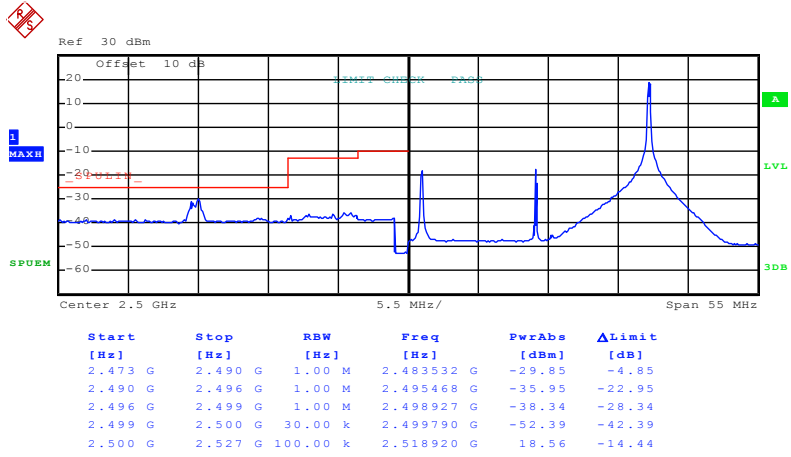


Date: 10.NOV.2015 13:09:44

Highest channel

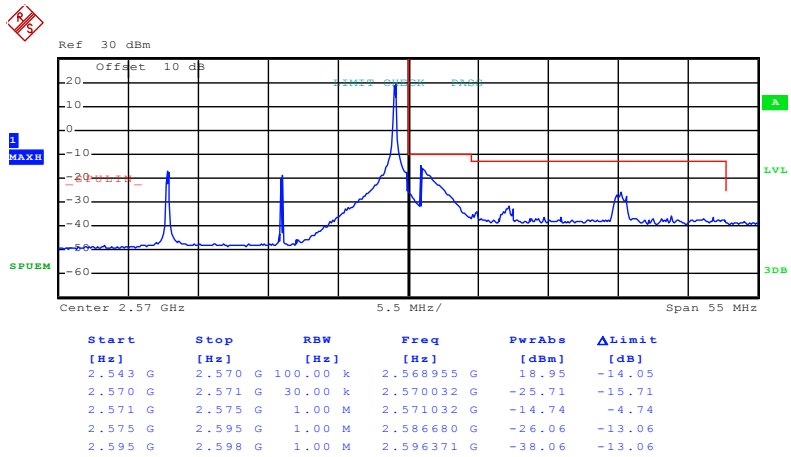


Test Mode:	LTE band 7(16QAM RB Size 1 & RB Offset 99)
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Date: 10.NOV.2015 12:54:27

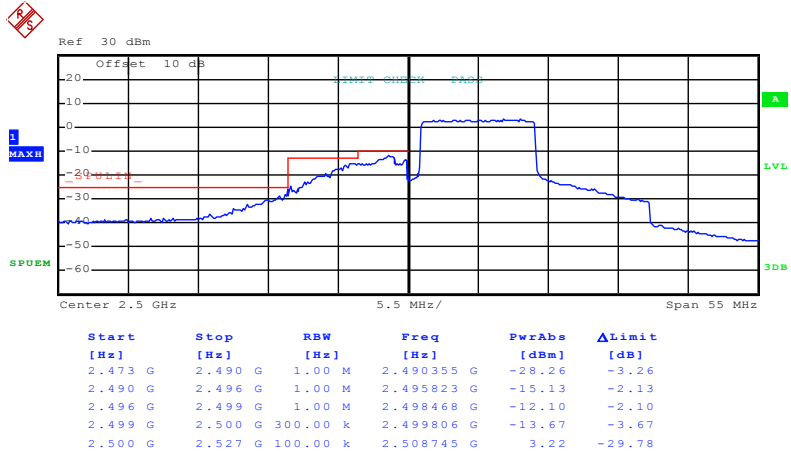
Lowest channel



Date: 10.NOV.2015 13:10:01

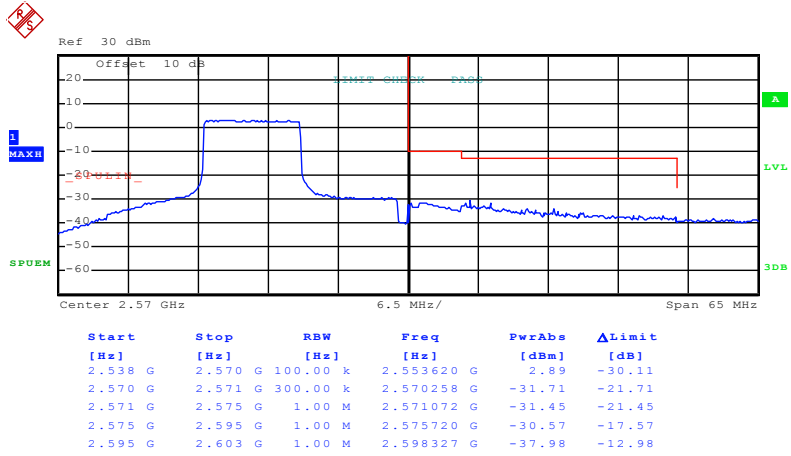
Highest channel

Test Mode:	LTE band 7(16QAM RB Size 50 & RB Offset 0)
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Date: 10.NOV.2015 12:55:30

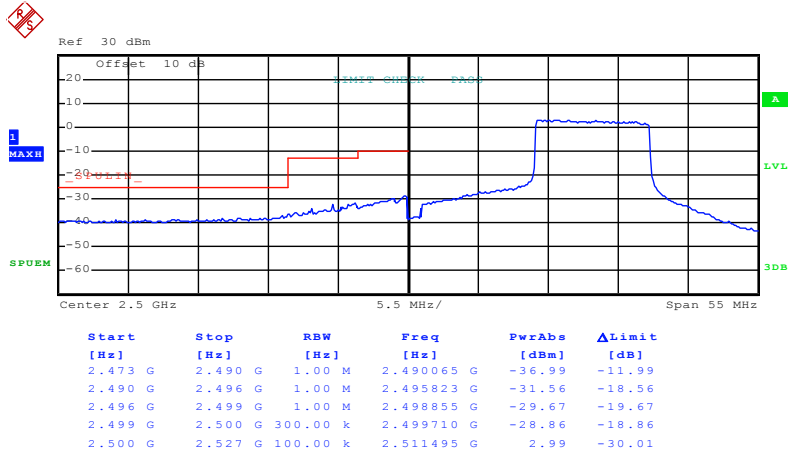
Lowest channel



Date: 10.NOV.2015 13:11:57

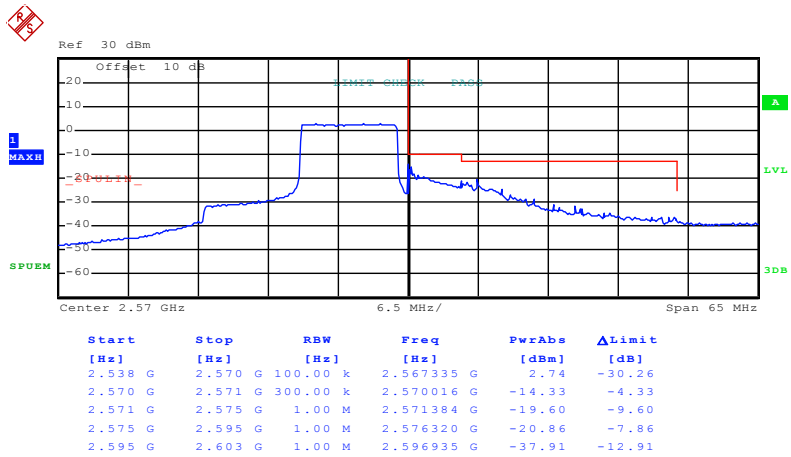
Highest channel

Test Mode:	LTE band 7(16QAM RB Size 50 & RB Offset 49)
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Date: 10.NOV.2015 12:55:45

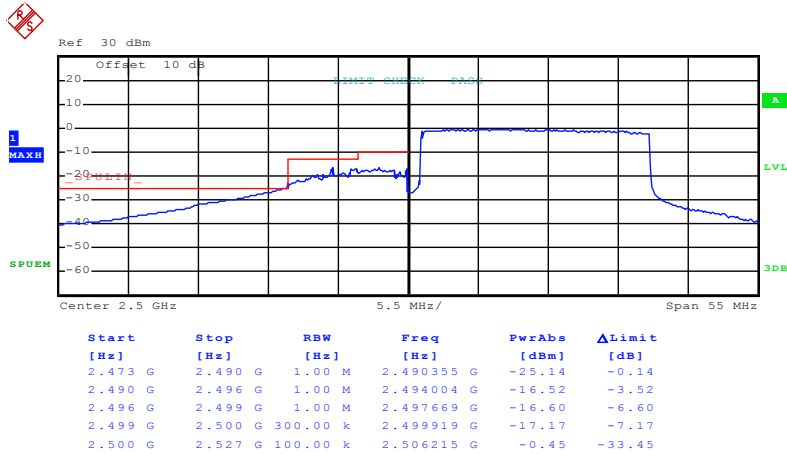
Lowest channel



Date: 10.NOV.2015 13:12:13

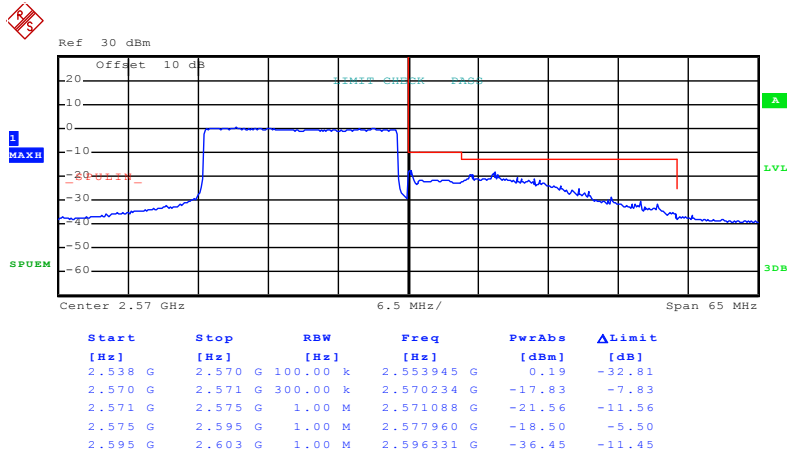
Highest channel

Test Mode: LTE band 7(16QAM RB Size 100 & RB Offset 0)



Date: 10.NOV.2015 12:57:05

Lowest channel



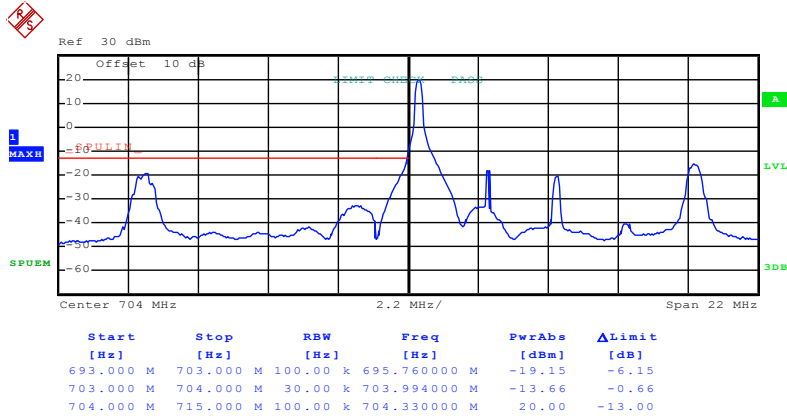
Date: 10.NOV.2015 13:14:47

Highest channel

LTE band 17 part:

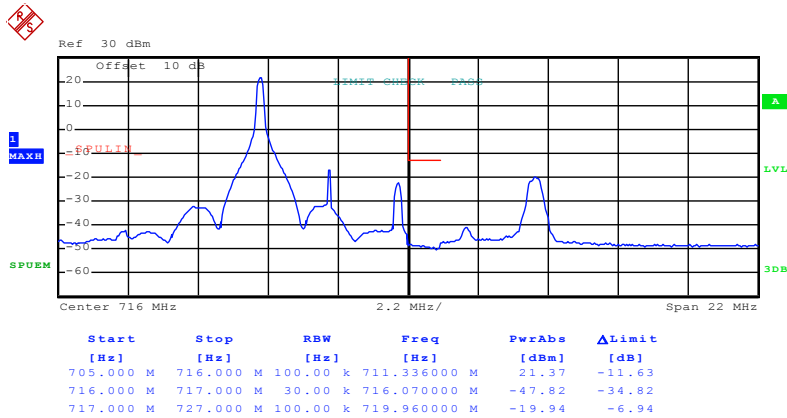
5MHz:

Test Mode:	LTE band 17(QPSK RB Size 1 & RB Offset 0)
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Date: 10.NOV.2015 13:22:14

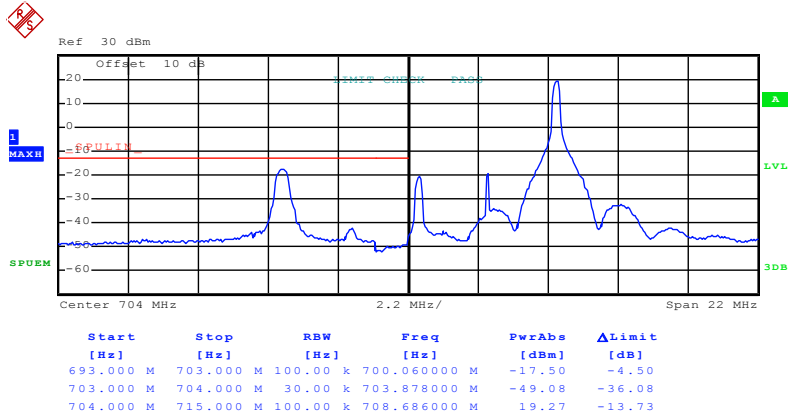
Lowest channel



Date: 10.NOV.2015 13:27:20

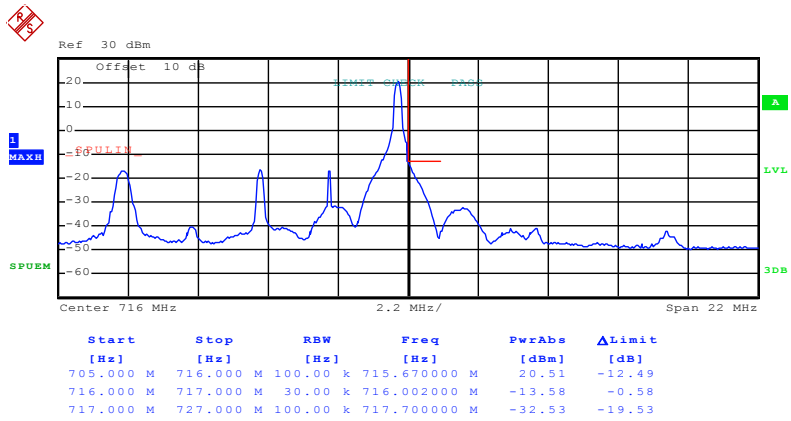
Highest channel

Test Mode:	LTE band 17(QPSK RB Size 1 & RB Offset 24)
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Date: 10.NOV.2015 13:22:56

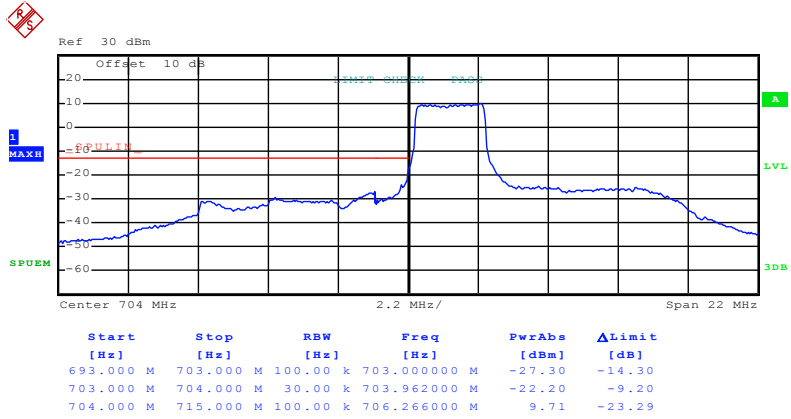
### Lowest channel



Date: 10.NOV.2015 13:28:38

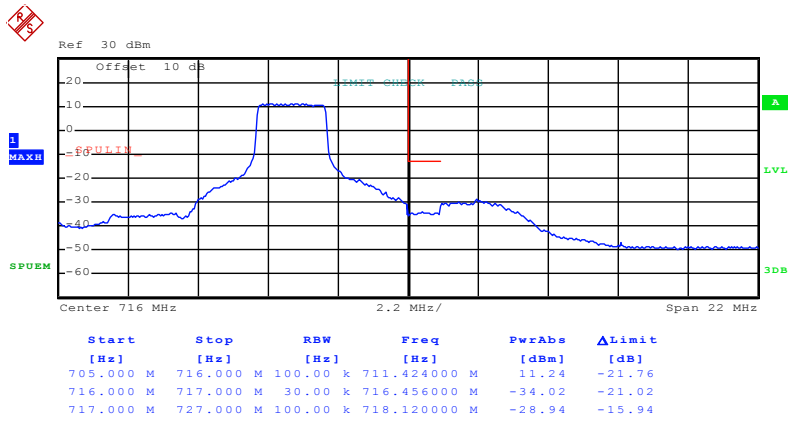
### Highest channel

Test Mode:	LTE band 17(QPSK RB Size 12 & RB Offset 0)
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Date: 10.NOV.2015 13:23:27

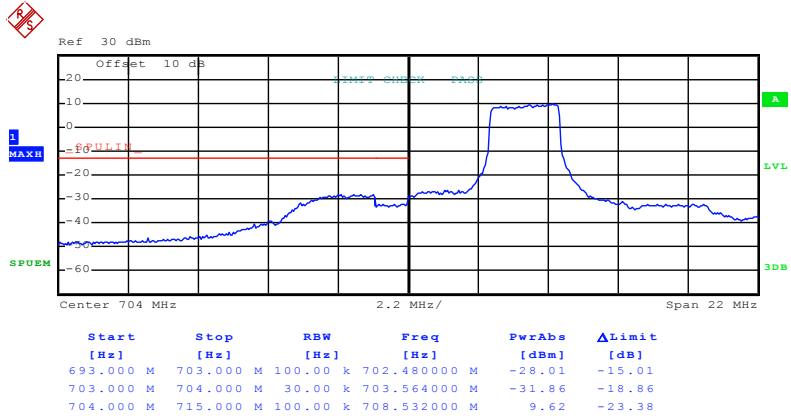
### Lowest channel



Date: 10.NOV.2015 13:29:05

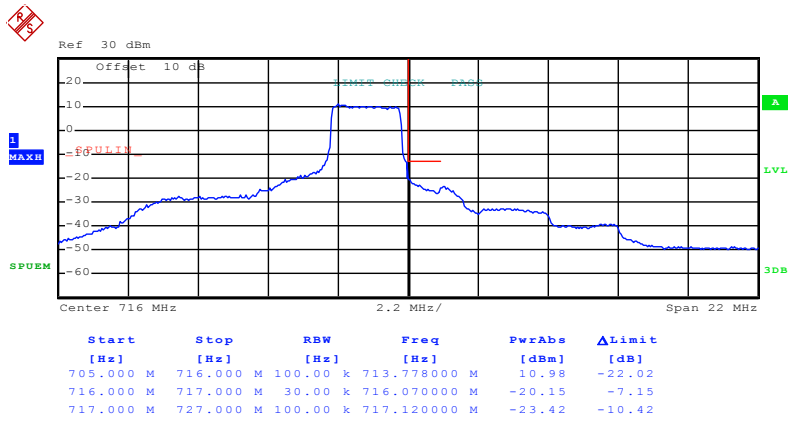
### Highest channel

Test Mode:	LTE band 17(QPSK RB Size 12 & RB Offset 11)
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Date: 10.NOV.2015 13:24:09

### Lowest channel

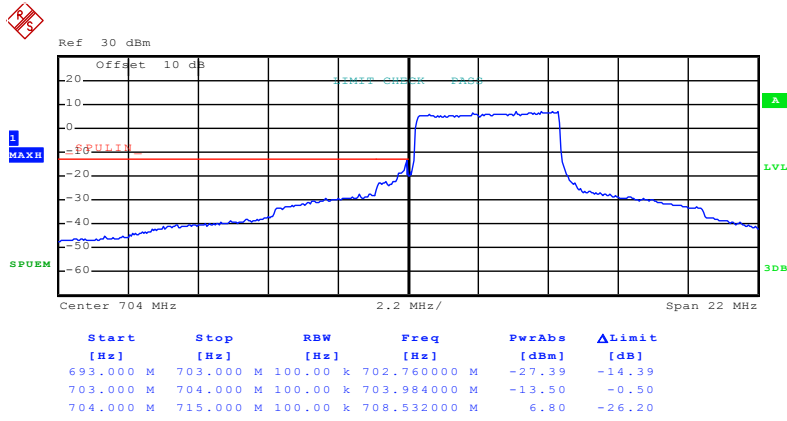


Date: 10.NOV.2015 13:29:53

### Highest channel

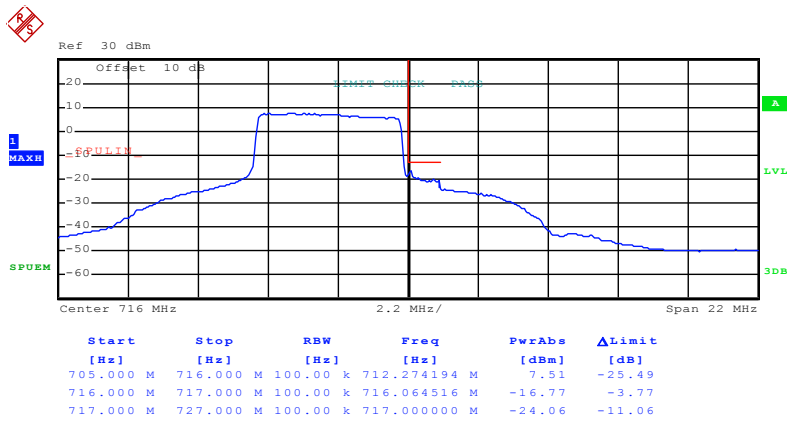


Test Mode: LTE band 17(QPSK RB Size 25 & RB Offset 0)



Date: 10.NOV.2015 13:24:58

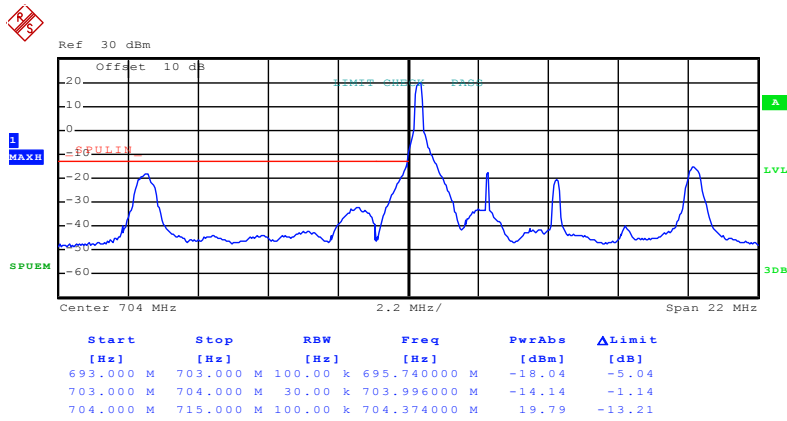
Lowest channel



Date: 10.NOV.2015 13:30:35

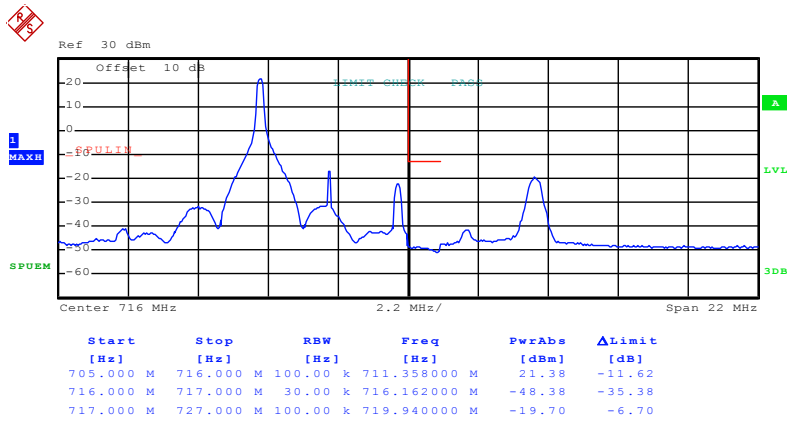
Highest channel

Test Mode:	LTE band 17(16QAM RB Size 1 & RB Offset 0)
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Date: 10.NOV.2015 13:22:27

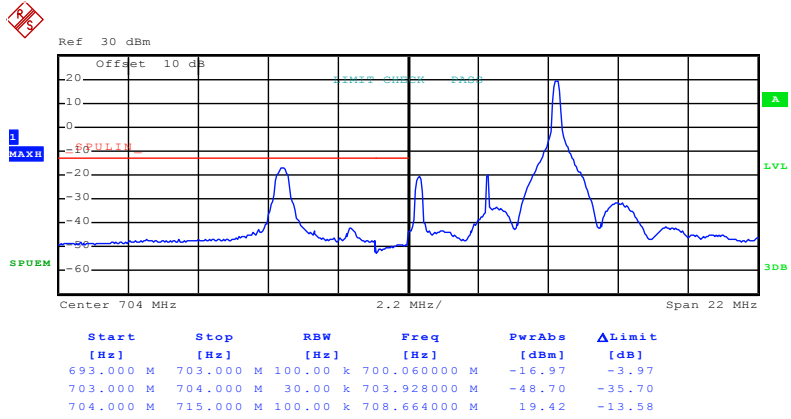
### Lowest channel



Date: 10.NOV.2015 13:28:10

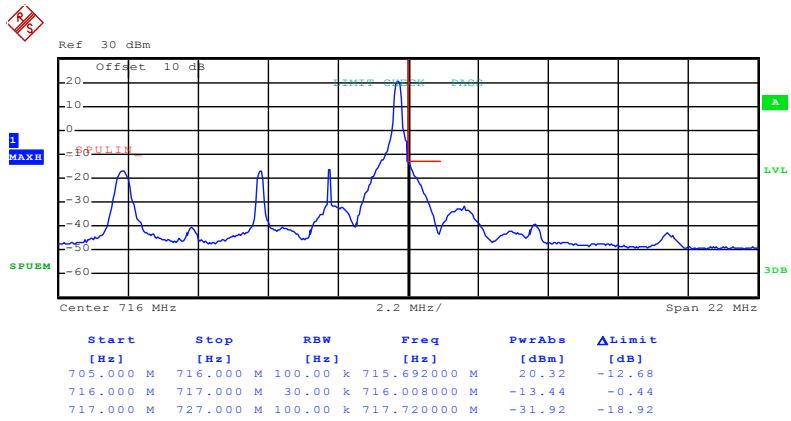
### Highest channel

Test Mode:	LTE band 17(16QAM RB Size 1 & RB Offset 24)
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Date: 10.NOV.2015 13:22:44

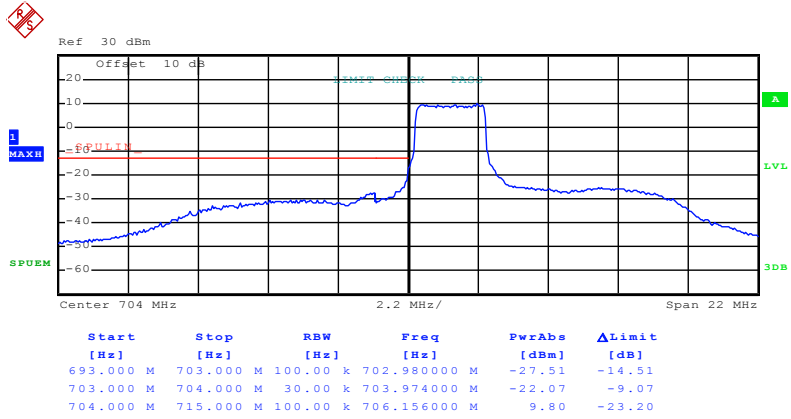
### Lowest channel



Date: 10.NOV.2015 13:28:24

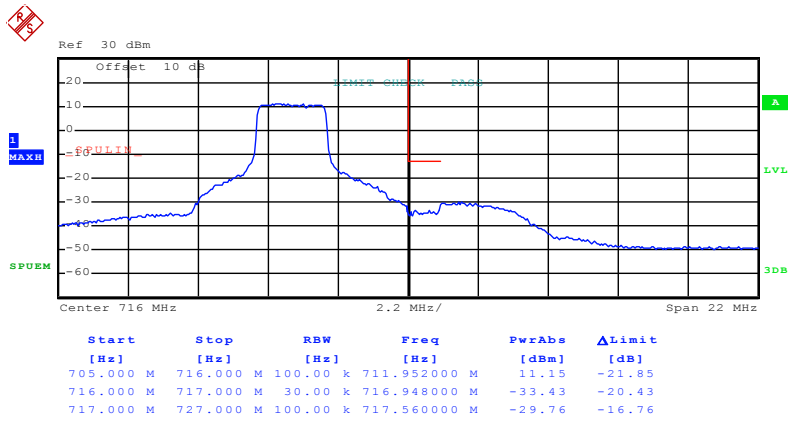
### Highest channel

Test Mode:	LTE band 17(16QAM RB Size 12 & RB Offset 0)
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Date: 10.NOV.2015 13:23:42

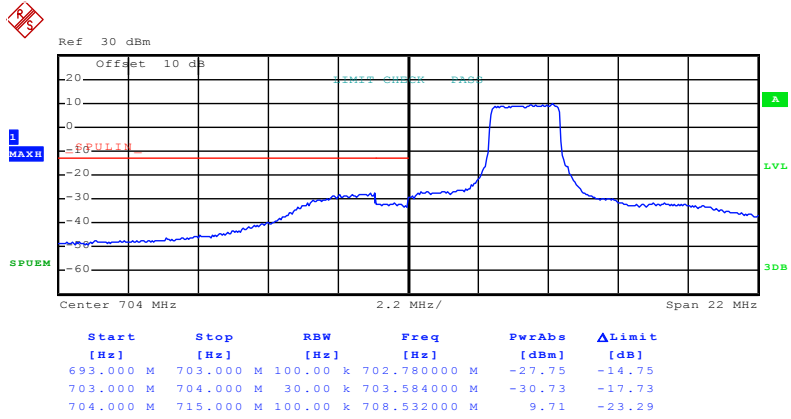
### Lowest channel



Date: 10.NOV.2015 13:29:18

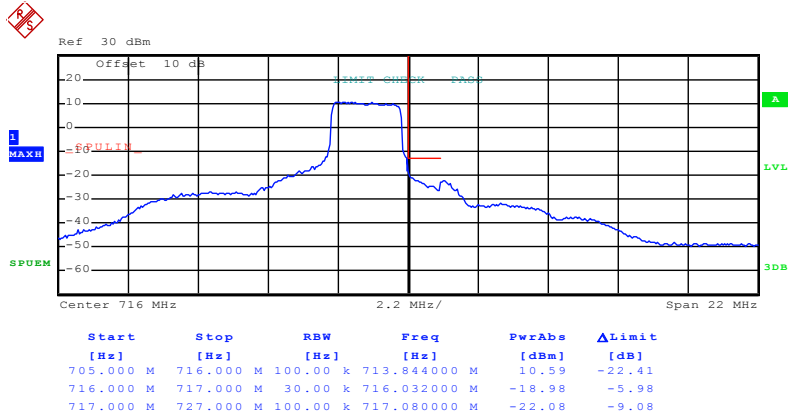
### Highest channel

Test Mode:	LTE band 17(16QAM RB Size 12 & RB Offset 11)
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Date: 10.NOV.2015 13:23:55

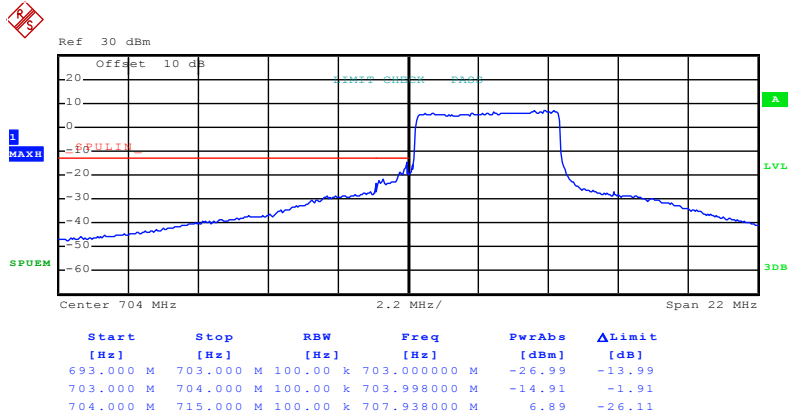
### Lowest channel



Date: 10.NOV.2015 13:29:36

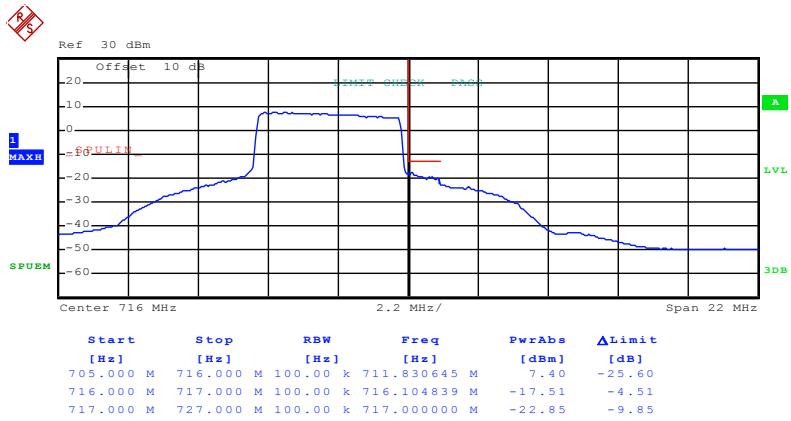
### Highest channel

Test Mode:	LTE band 17(16QAM RB Size 25 & RB Offset 0)
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Date: 10.NOV.2015 13:25:42

### Lowest channel

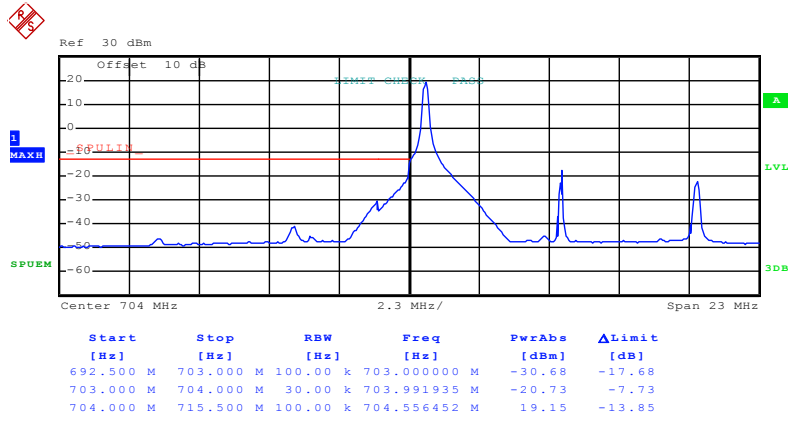


Date: 10.NOV.2015 13:30:51

### Highest channel

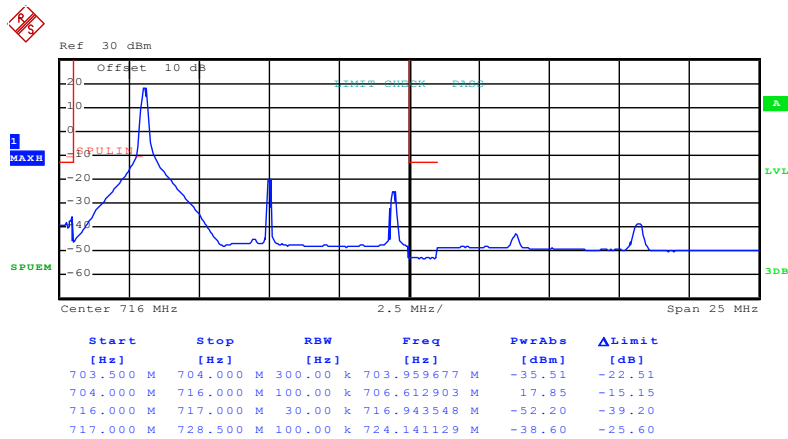
10MHz:

Test Mode:	LTE band 17(QPSK RB Size 1 & RB Offset 0)
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Date: 11.NOV.2015 03:11:33

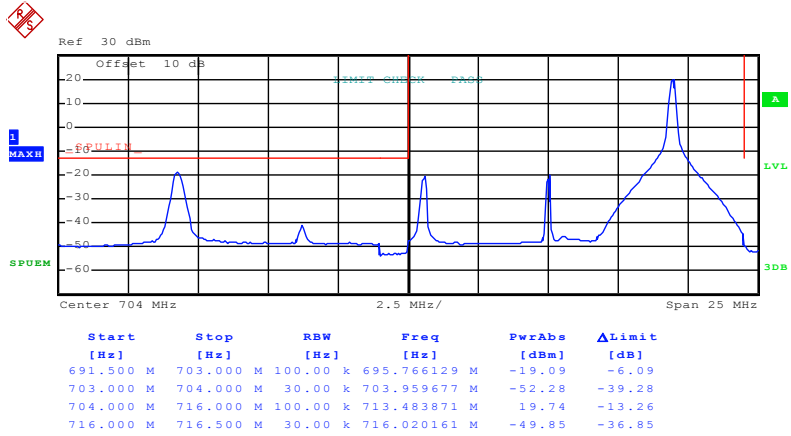
Lowest channel



Date: 11.NOV.2015 03:17:02

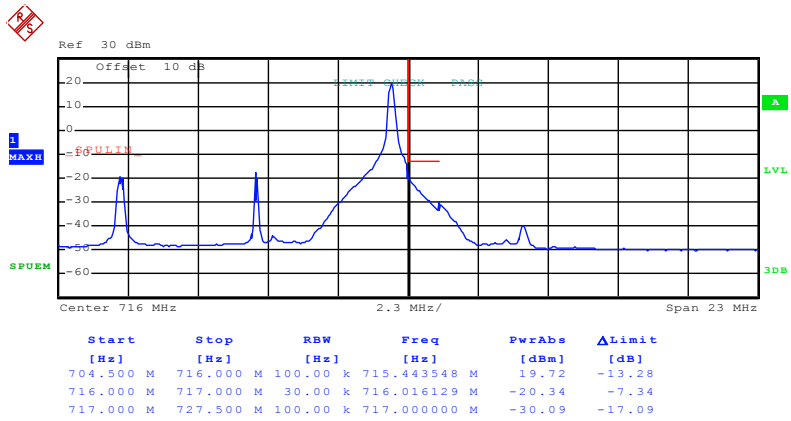
Highest channel

Test Mode:	LTE band 17(QPSK RB Size 1 & RB Offset 49)
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Date: 11.NOV.2015 03:13:34

### Lowest channel

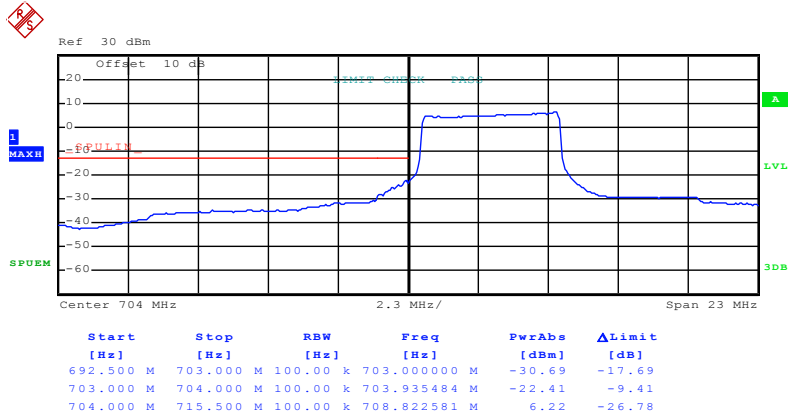


Date: 11.NOV.2015 03:18:00

### Highest channel

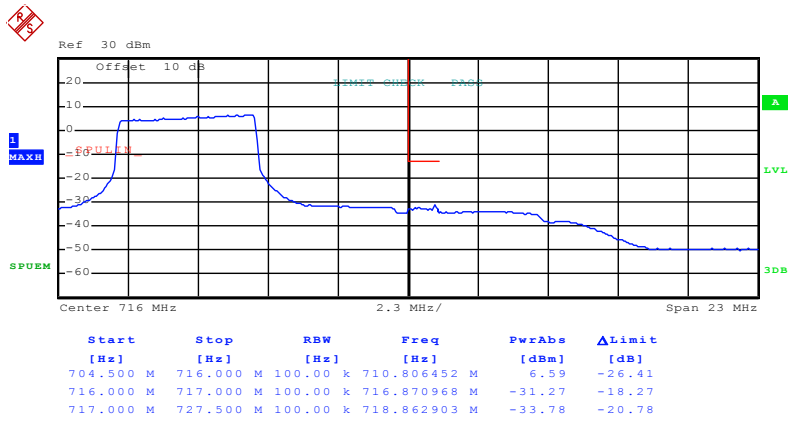


Test Mode:	LTE band 17(QPSK RB Size 25 & RB Offset 0)
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Date: 11.NOV.2015 03:14:08

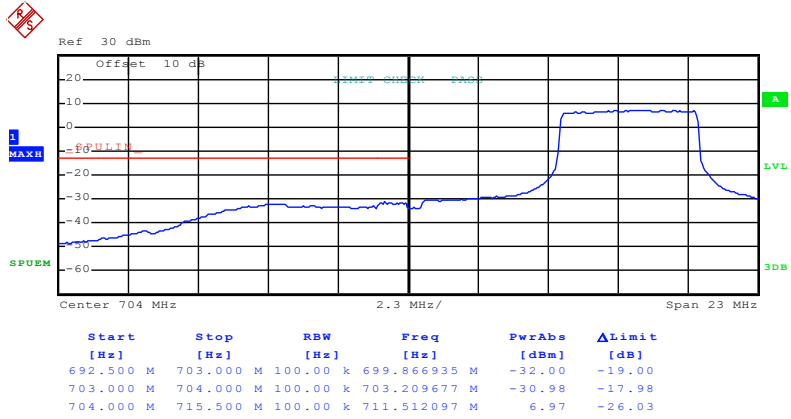
### Lowest channel



Date: 11.NOV.2015 03:18:32

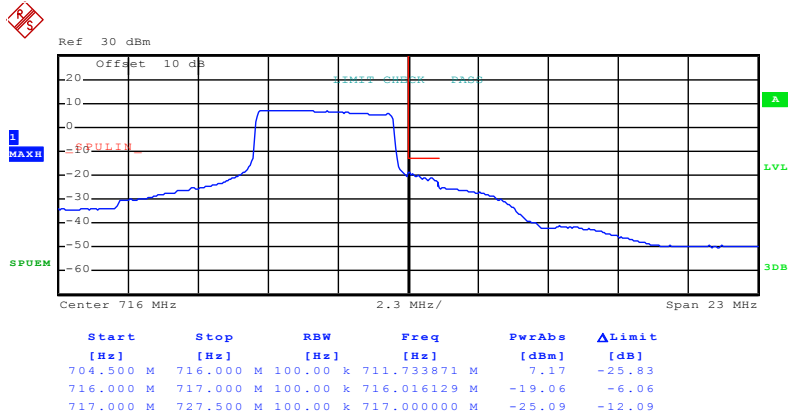
### Highest channel

Test Mode:	LTE band 17(QPSK RB Size 25 & RB Offset 24)
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Date: 11.NOV.2015 03:15:03

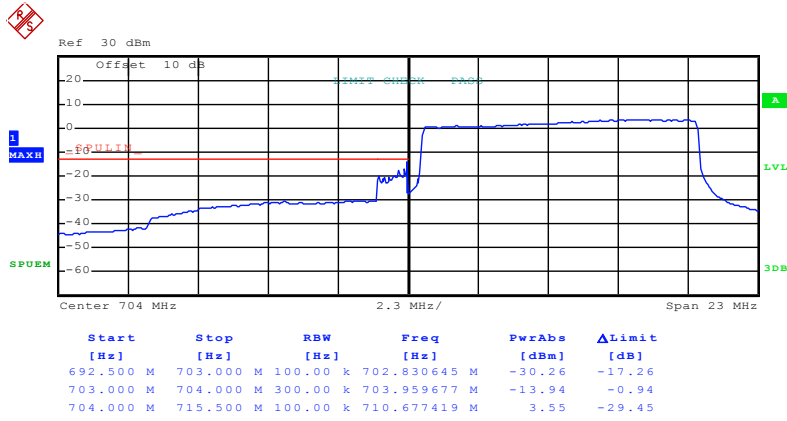
Lowest channel



Date: 11.NOV.2015 03:19:24

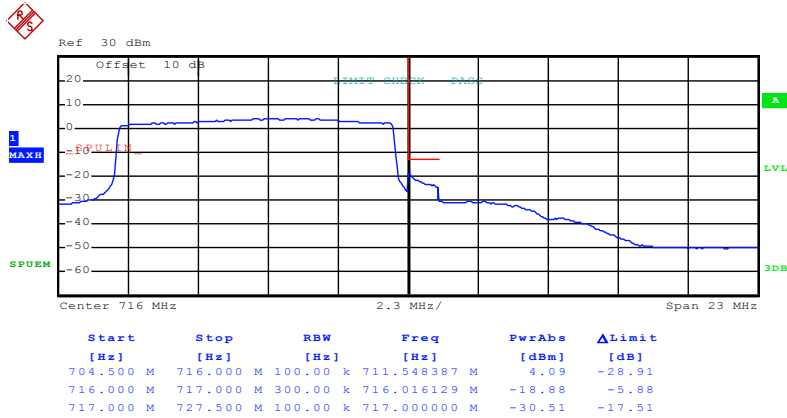
Highest channel

Test Mode: LTE band 17(QPSK RB Size 50 & RB Offset 0)



Date: 11.NOV.2015 03:15:29

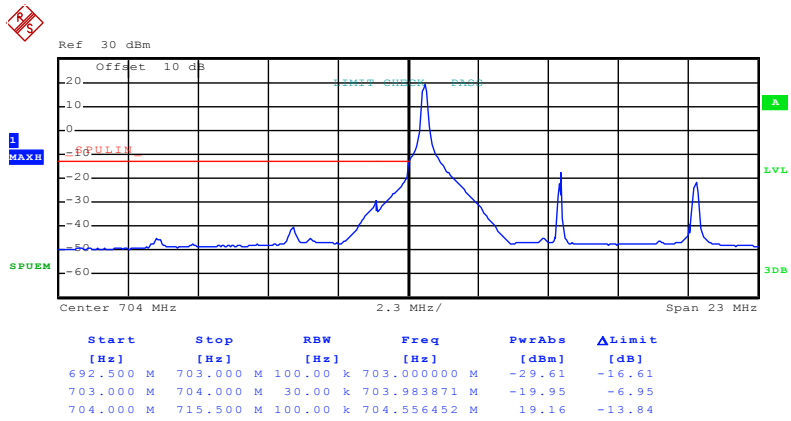
Lowest channel



Date: 11.NOV.2015 03:20:05

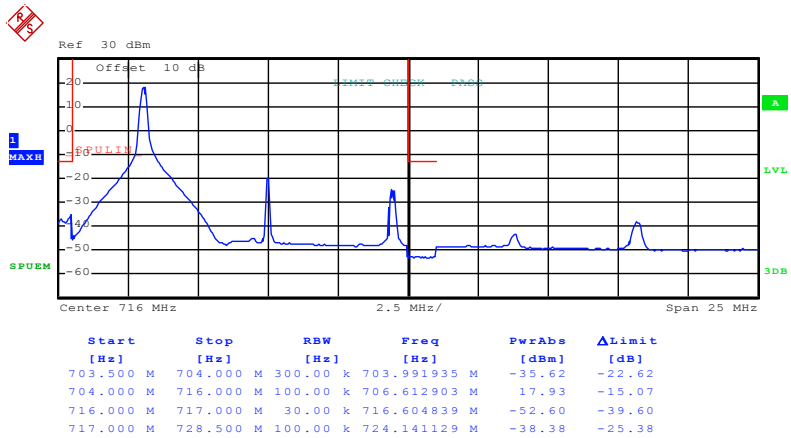
Highest channel

Test Mode: LTE band 17(16QAM RB Size 1 & RB Offset 0)



Date: 11.NOV.2015 03:11:51

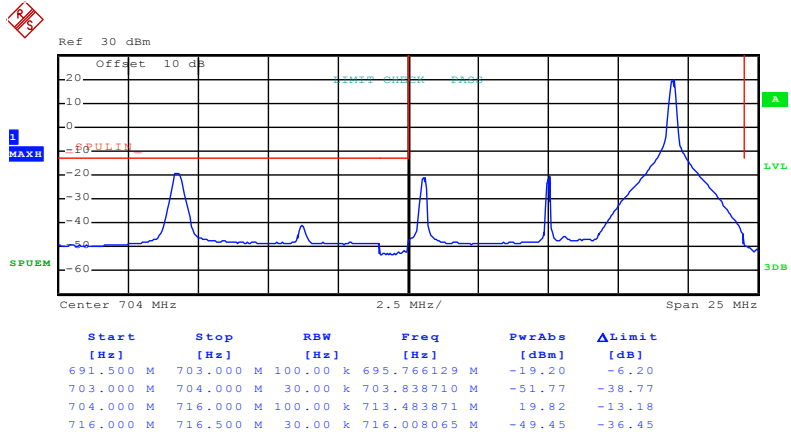
### Lowest channel



Date: 11.NOV.2015 03:17:17

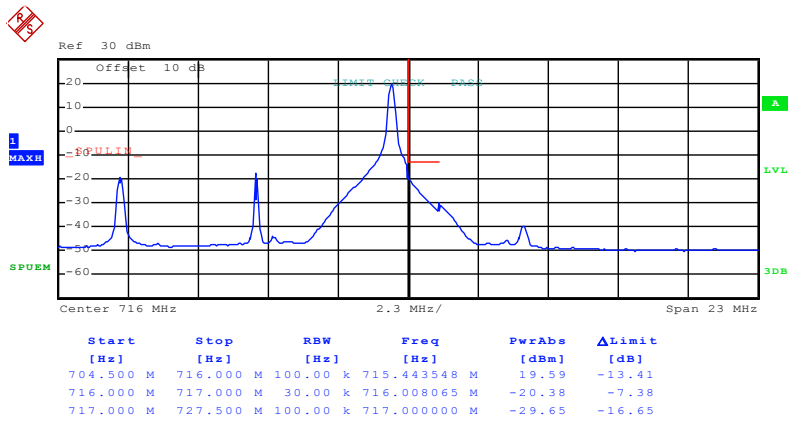
### Highest channel

Test Mode:	LTE band 17(16QAM RB Size 1 & RB Offset 49)
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Date: 11.NOV.2015 03:13:20

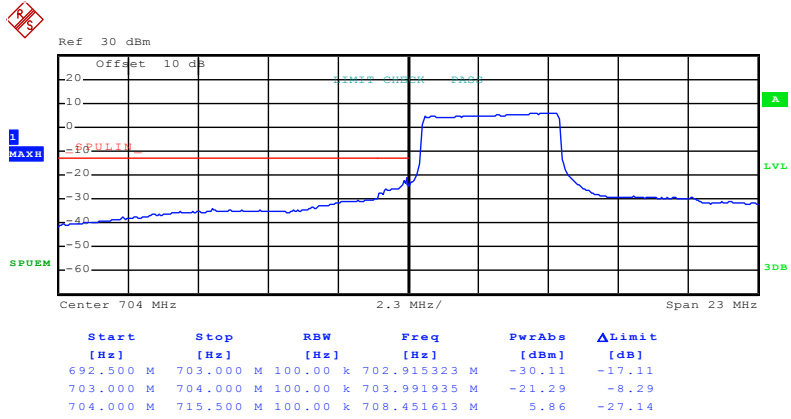
### Lowest channel



Date: 11.NOV.2015 03:17:48

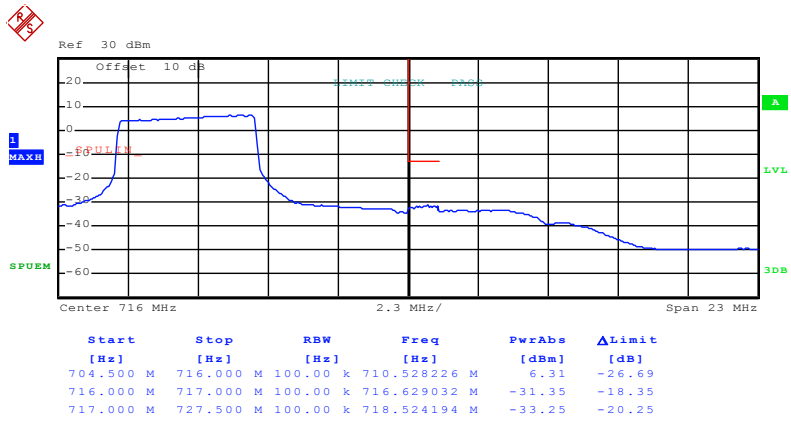
### Highest channel

Test Mode:	LTE band 17(16QAM RB Size 25 & RB Offset 0)
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Date: 11.NOV.2015 03:14:22

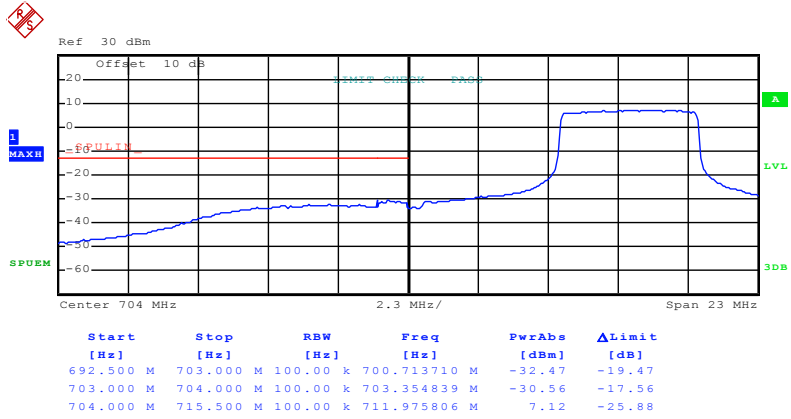
### Lowest channel



Date: 11.NOV.2015 03:18:47

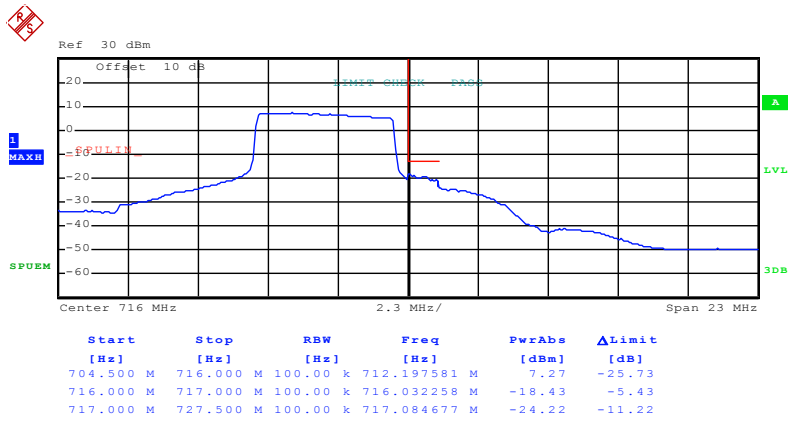
### Highest channel

Test Mode:	LTE band 17(16QAM RB Size 25 & RB Offset 24)
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Date: 11.NOV.2015 03:14:48

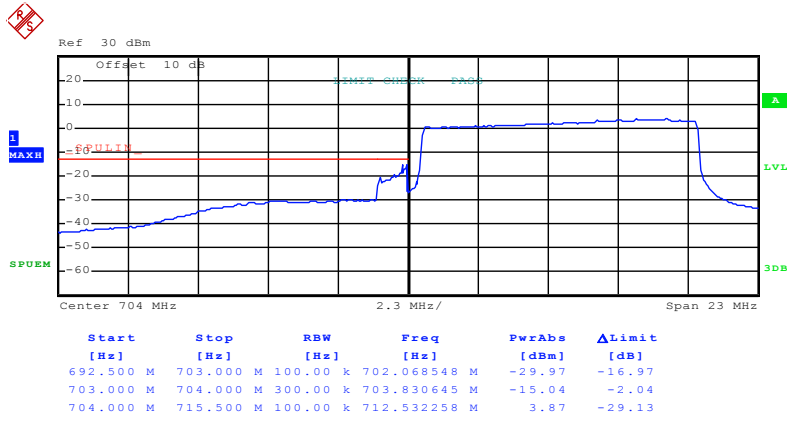
### Lowest channel



Date: 11.NOV.2015 03:19:08

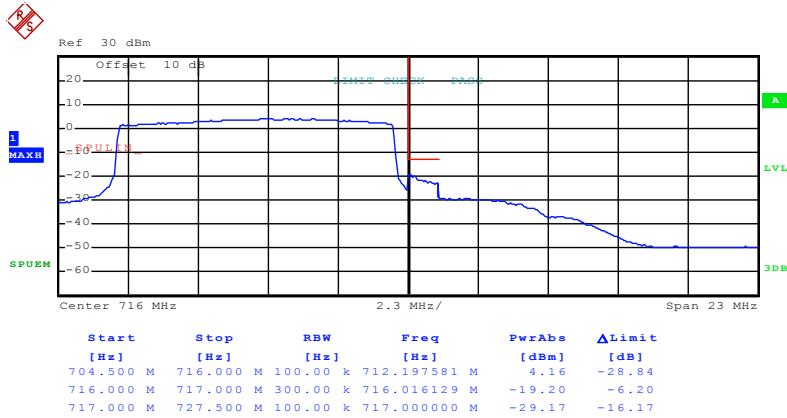
### Highest channel

Test Mode: LTE band 17(16QAM RB Size 50 & RB Offset 0)



Date: 11.NOV.2015 03:15:59

Lowest channel

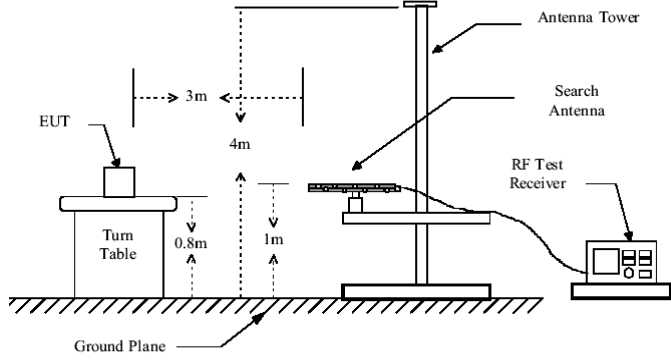
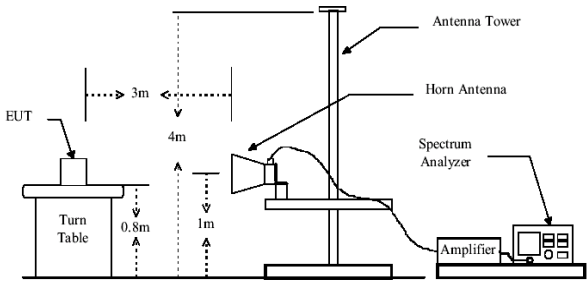
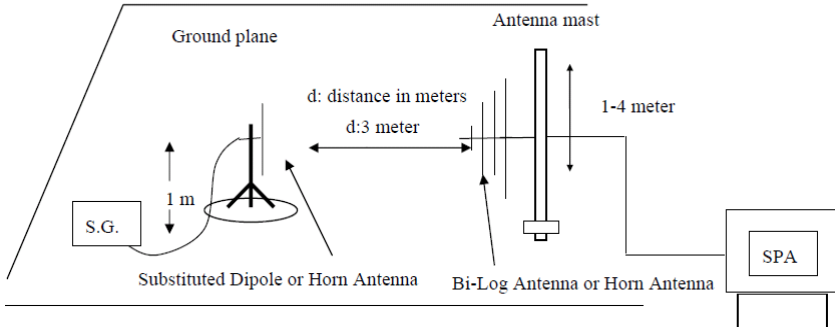


Date: 11.NOV.2015 03:20:23

Highest channel



## 6.10 ERP, EIRP Measurement

Test Requirement:	FCC part 27.50(c), part 27.50(d) and part 27.50(h)
Test Method:	FCC part 2.1046
Limit:	LTE Band 4: 1W EIRP LTE Band 7: 2W EIRP LTE Band 17: 3W EIRP
Test setup:	<p><b>Below 1GHz</b></p>  <p><b>Above 1GHz</b></p>  <p><b>Substituted method:</b></p> 

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

Measurement Data (worst case)

LTE band 4 part

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	21.03	30.00	Pass
					H	17.00		
1710.70	19957	16QAM	1.4	H	V	20.51		
					H	19.36		
1.4MHz(RB size 3 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	20.25	30.00	Pass
					H	18.35		
1710.70	19957	16QAM	1.4	H	V	19.94		
					H	19.03		
1.4MHz(RB size 6 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	20.25	30.00	Pass
					H	17.75		
1710.70	19957	16QAM	1.4	H	V	20.03		
					H	18.55		

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	21.55	30.00	Pass
					H	16.62		
1710.70	19957	16QAM	1.4	H	V	19.84		
					H	20.31		
1.4MHz(RB size 3 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	20.18	30.00	Pass
					H	18.14		
1710.70	19957	16QAM	1.4	H	V	19.94		
					H	18.25		
1.4MHz(RB size 6 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	20.26	30.00	Pass
					H	18.28		
1710.70	19957	16QAM	1.4	H	V	19.79		
					H	17.56		

### Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	21.36	30.00	Pass
					H	17.15		
1710.70	19957	16QAM	1.4	H	V	20.03		
					H	19.54		
1.4MHz(RB size 3 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	21.13	30.00	Pass
					H	19.25		
1710.70	19957	16QAM	1.4	H	V	19.68		
					H	18.58		
1.4MHz(RB size 6 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	21.02	30.00	Pass
					H	19.03		
1710.70	19957	16QAM	1.4	H	V	19.84		
					H	17.35		

### Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
1720.00	20050	QPSK	20	H	V	21.03	30.00	Pass
					H	18.24		
1720.00	20050	16QAM	20	H	V	21.13		
					H	18.85		
20MHz(RB size 50 & RB offset 0)								
1720.00	20050	QPSK	20	H	V	21.13	30.00	Pass
					H	17.76		
1720.00	20050	16QAM	20	H	V	20.31		
					H	18.03		
20MHz(RB size 100 & RB offset 0)								
1720.00	20050	QPSK	20	H	V	19.47	30.00	Pass
					H	17.38		
1720.00	20050	16QAM	20	H	V	19.81		
					H	17.95		

### Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
1732.50	20175	QPSK	20	H	V	20.76	30.00	Pass
					H	17.80		
1732.50	20175	16QAM	20	H	V	20.72		
					H	17.85		
20MHz(RB size 50 & RB offset 0)								
1732.50	20175	QPSK	20	H	V	20.32	30.00	Pass
					H	18.06		
1732.50	20175	16QAM	20	H	V	20.59		
					H	18.21		
20MHz(RB size 100 & RB offset 0)								
1732.50	20175	QPSK	20	H	V	19.98	30.00	Pass
					H	17.36		
1732.50	20175	16QAM	20	H	V	19.98		
					H	17.66		

### High channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
1745.00	20300	QPSK	20	H	V	20.38	30.00	Pass
					H	18.54		
1745.00	20300	16QAM	20	H	V	21.13		
					H	18.47		
20MHz(RB size 50 & RB offset 0)								
1745.00	20300	QPSK	20	H	V	21.23	30.00	Pass
					H	18.57		
1745.00	20300	16QAM	20	H	V	21.45		
					H	18.03		
20MHz(RB size 100 & RB offset 0)								
1745.00	20300	QPSK	20	H	V	20.03	30.00	Pass
					H	18.52		
1745.00	20300	16QAM	20	H	V	20.44		
					H	18.06		

LTE band 7 part

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
5MHz(RB size 1 & RB offset 0)								
2502.50	20775	QPSK	5	H	V	15.63	33.00	Pass
					H	11.42		
2502.50	20775	16QAM	5	H	V	15.26		
					H	11.14		
5MHz(RB size 12 & RB offset 0)								
2502.50	20775	QPSK	5	H	V	15.58	33.00	Pass
					H	12.32		
2502.50	20775	16QAM	5	H	V	14.78		
					H	11.69		
5MHz(RB size 25 & RB offset 0)								
2502.50	20775	QPSK	5	H	V	15.58	33.00	Pass
					H	12.25		
2502.50	20775	16QAM	5	H	V	15.67		
					H	12.35		

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
5MHz(RB size 1 & RB offset 0)								
2535.00	21100	QPSK	5	H	V	15.09	33.00	Pass
					H	11.09		
2535.00	21100	16QAM	5	H	V	14.88		
					H	12.07		
5MHz(RB size 12 & RB offset 0)								
2535.00	21100	QPSK	5	H	V	14.40	33.00	Pass
					H	11.44		
2535.00	21100	16QAM	5	H	V	14.59		
					H	11.74		
5MHz(RB size 25 & RB offset 0)								
2535.00	21100	QPSK	5	H	V	14.99	33.00	Pass
					H	11.51		
2535.00	21100	16QAM	5	H	V	14.62		
					H	11.34		

### Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
5MHz(RB size 1 & RB offset 0)								
2567.50	21425	QPSK	5	H	V	16.35	33.00	Pass
					H	12.05		
2567.50	21425	16QAM	5	H	V	15.75		
					H	12.41		
5MHz(RB size 12 & RB offset 0)								
2567.50	21425	QPSK	5	H	V	15.26	33.00	Pass
					H	11.25		
2567.50	21425	16QAM	5	H	V	15.75		
					H	12.25		
5MHz(RB size 25 & RB offset 0)								
2567.50	21425	QPSK	5	H	V	15.69	33.00	Pass
					H	12.24		
2567.50	21425	16QAM	5	H	V	15.27		
					H	12.03		

### Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
2510.00	20850	QPSK	20	H	V	16.38	33.00	Pass
					H	12.47		
2510.00	20850	16QAM	20	H	V	16.58		
					H	11.41		
20MHz(RB size 50 & RB offset 0)								
2510.00	20850	QPSK	20	H	V	17.02	33.00	Pass
					H	12.74		
2510.00	20850	16QAM	20	H	V	16.14		
					H	12.36		
20MHz(RB size 100 & RB offset 0)								
2510.00	20850	QPSK	20	H	V	16.33	33.00	Pass
					H	11.48		
2510.00	20850	16QAM	20	H	V	16.71		
					H	12.62		

### Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
2535.00	21100	QPSK	20	H	V	17.03	33.00	Pass
					H	13.12		
2535.00	21100	16QAM	20	H	V	16.85		
					H	12.24		
20MHz(RB size 50 & RB offset 0)								
2535.00	21100	QPSK	20	H	V	16.36	33.00	Pass
					H	11.48		
2535.00	21100	16QAM	20	H	V	16.69		
					H	12.41		
20MHz(RB size 100 & RB offset 0)								
2535.00	21100	QPSK	20	H	V	17.46	33.00	Pass
					H	11.47		
2535.00	21100	16QAM	20	H	V	17.21		
					H	12.03		

### High channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
2560.00	21350	QPSK	20	H	V	17.23	33.00	Pass
					H	12.24		
2560.00	21350	16QAM	20	H	V	17.01		
					H	11.69		
20MHz(RB size 50 & RB offset 0)								
2560.00	21350	QPSK	20	H	V	16.69	33.00	Pass
					H	12.41		
2560.00	21350	16QAM	20	H	V	16.25		
					H	12.34		
20MHz(RB size 100 & RB offset 0)								
2560.00	21350	QPSK	20	H	V	17.42	33.00	Pass
					H	12.36		
2560.00	21350	16QAM	20	H	V	17.12		
					H	11.33		



**LTE band 17 part  
Lowest channel**

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
5MHz(RB size 1 & RB offset 0)								
706.50	23755	QPSK	5	H	V	19.24	34.77	Pass
					H	17.25		
706.50	23755	16QAM	5	H	V	19.12		
					H	17.16		
5MHz(RB size 12 & RB offset 0)								
706.50	23755	QPSK	5	H	V	16.25	34.77	Pass
					H	15.02		
706.50	23755	16QAM	5	H	V	17.28		
					H	15.03		
5MHz(RB size 25 & RB offset 0)								
706.50	23755	QPSK	5	H	V	18.26	34.77	Pass
					H	17.01		
706.50	23755	16QAM	5	H	V	18.25		
					H	16.37		

**Middle channel**

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
5MHz(RB size 1 & RB offset 0)								
710.00	23790	QPSK	5	H	V	19.59	34.77	Pass
					H	17.62		
710.00	23790	16QAM	5	H	V	18.26		
					H	16.63		
5MHz(RB size 12 & RB offset 0)								
710.00	23790	QPSK	5	H	V	16.06	34.77	Pass
					H	14.33		
710.00	23790	16QAM	5	H	V	17.23		
					H	14.15		
5MHz(RB size 25 & RB offset 0)								
710.00	23790	QPSK	5	H	V	18.15	34.77	Pass
					H	16.92		
710.00	23790	16QAM	5	H	V	18.04		
					H	16.22		

### Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
5MHz(RB size 1 & RB offset 0)								
713.50	23825	QPSK	5	H	V	20.03	34.77	Pass
					H	17.45		
713.50	23825	16QAM	5	H	V	19.21		
					H	16.69		
5MHz(RB size 12 & RB offset 0)								
713.50	23825	QPSK	5	H	V	17.12	34.77	Pass
					H	15.21		
713.50	23825	16QAM	5	H	V	17.05		
					H	14.56		
5MHz(RB size 25 & RB offset 0)								
713.50	23825	QPSK	5	H	V	19.03	34.77	Pass
					H	16.25		
713.50	23825	16QAM	5	H	V	19.31		
					H	16.45		

### Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
10MHz(RB size 1 & RB offset 0)								
709.00	23780	QPSK	10	H	V	20.15	34.77	Pass
					H	18.24		
709.00	23780	16QAM	10	H	V	20.36		
					H	17.15		
10MHz(RB size 25 & RB offset 0)								
709.00	23780	QPSK	10	H	V	18.56	34.77	Pass
					H	16.03		
709.00	23780	16QAM	10	H	V	19.01		
					H	15.02		
10MHz(RB size 50 & RB offset 0)								
709.00	23780	QPSK	10	H	V	19.12	34.77	Pass
					H	17.27		
709.00	23780	16QAM	10	H	V	19.14		
					H	17.23		

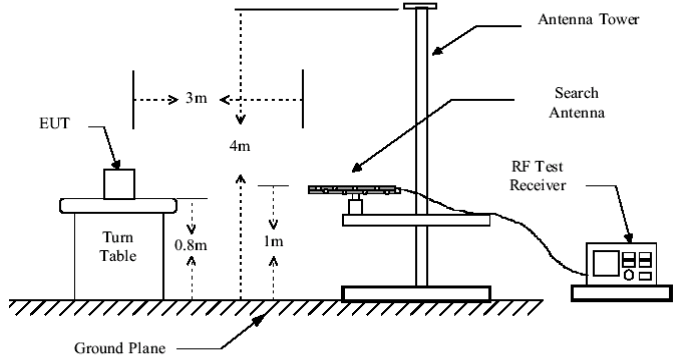
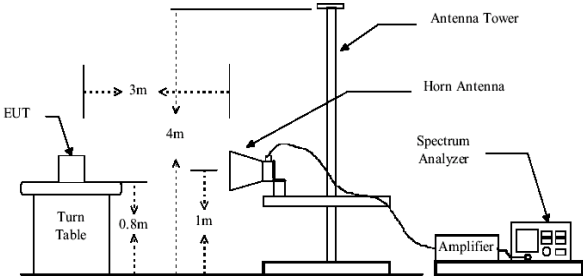
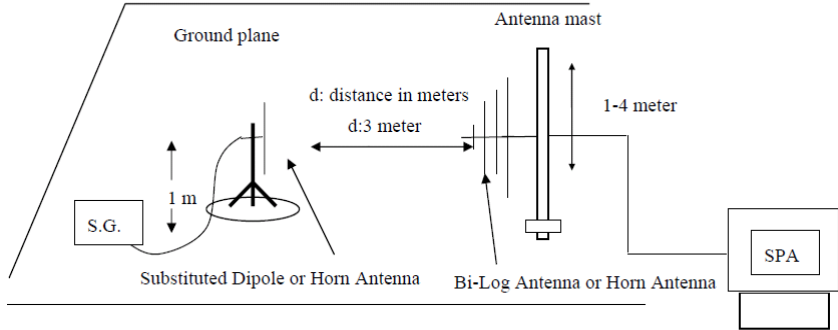
### Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
10MHz(RB size 1 & RB offset 0)								
710.00	23790	QPSK	10	H	V	21.23	34.77	Pass
					H	19.03		
710.00	23790	16QAM	10	H	V	21.01		
					H	18.12		
10MHz(RB size 25 & RB offset 0)								
710.00	23790	QPSK	10	H	V	19.32	34.77	Pass
					H	17.14		
710.00	23790	16QAM	10	H	V	19.25		
					H	16.32		
10MHz(RB size 50 & RB offset 0)								
710.00	23790	QPSK	10	H	V	20.03	34.77	Pass
					H	18.15		
710.00	23790	16QAM	10	H	V	20.11		
					H	18.02		

### Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
10MHz(RB size 1 & RB offset 0)								
711.00	23800	QPSK	10	H	V	20.35	34.77	Pass
					H	18.74		
711.00	23800	16QAM	10	H	V	21.36		
					H	19.62		
10MHz(RB size 25 & RB offset 0)								
711.00	23800	QPSK	10	H	V	21.15	34.77	Pass
					H	18.25		
711.00	23800	16QAM	10	H	V	20.03		
					H	17.63		
10MHz(RB size 50 & RB offset 0)								
711.00	23800	QPSK	10	H	V	21.17	34.77	Pass
					H	19.24		
711.00	23800	16QAM	10	H	V	20.48		
					H	18.62		

## 6.11 Field strength of spurious radiation measurement

Test Requirement:	FCC part 27.53(g), part 27.53(h) and part 27.53(m)
Test Method:	FCC part 2.1053
Limit:	LTE Band 4 and LTE Band 17: -13dBm LTE Band 7: -25dBm
Test setup:	<p>Below 1GHz</p>  <p>Above 1GHz</p>  <p>Substituted method:</p> 
Test Procedure:	<ol style="list-style-type: none"> <li>1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.</li> <li>2. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.</li> <li>3. The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission</li> </ol>

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

**Measurement Data (worst case)**

**Below 1GHz:**

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

**Above 1GHz**

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

LTE Band 4 Part:

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

Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest</b>				
3421.40	Vertical	-33.07	-13.00	Pass
5132.10	V	-33.80		
6842.80	V	-36.88		
3421.40	Horizontal	-35.72		
5132.10	H	-35.98		
6842.80	H	-36.11		
<b>Middle</b>				
3465.00	Vertical	-36.03	-13.00	Pass
5197.50	V	-33.35		
6930.00	V	-38.23		
3465.00	Horizontal	-41.45		
5197.50	H	-34.78		
6930.00	H	-36.93		
<b>Highest</b>				
3508.60	Vertical	-37.87	-13.00	Pass
5262.90	V	-31.49		
7017.20	V	-33.59		
3508.60	Horizontal	-41.32		
5262.90	H	-31.46		
7017.20	H	-36.67		
<b>3MHz(RB size 1 &amp; RB offset 0) for QPSK</b>				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest</b>				
3423.00	Vertical	-34.12	-13.00	Pass
5134.50	V	-35.26		
6846.00	V	-37.14		
3423.00	Horizontal	-35.02		
5134.50	H	-36.62		
6846.00	H	-36.47		
<b>Middle</b>				
3465.00	Vertical	-37.15	-13.00	Pass
5197.50	V	-34.52		
6930.00	V	-39.62		
3465.00	Horizontal	-42.25		
5197.50	H	-35.57		
6930.00	H	-37.14		

Highest				
3507.00	Vertical	-37.15	-13.00	Pass
5260.50	V	-31.48		
7014.00	V	-37.75		
3507.00	Horizontal	-42.26		
5260.50	H	-32.26		
7014.00	H	-37.51		
5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3425.00	Vertical	-40.08	-13.00	Pass
5137.50	V	-36.27		
6850.00	V	-38.16		
3425.00	Horizontal	-38.02		
5137.50	H	-34.71		
6850.00	H	-38.15		
Middle				
3465.00	Vertical	-42.55	-13.00	Pass
5197.50	V	-35.83		
6930.00	V	-31.80		
3465.00	Horizontal	-41.11		
5197.50	H	-35.91		
6930.00	H	-35.17		
Highest				
3505.00	Vertical	-37.74	-13.00	Pass
5257.50	V	-30.33		
7010.00	V	-30.55		
3505.00	Horizontal	-44.08		
5257.50	H	-34.56		
7010.00	H	-38.42		
10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3430.00	Vertical	-38.86	-13.00	Pass
5145.00	V	-37.15		
6860.00	V	-38.96		
3430.00	Horizontal	-39.03		
5145.00	H	-35.62		
6860.00	H	-35.41		

Middle				
3465.00	Vertical	-41.25	-13.00	Pass
5197.50	V	-36.63		
6930.00	V	-32.24		
3465.00	Horizontal	-42.20		
5197.50	H	-36.69		
6930.00	H	-36.71		
Highest				
3500.00	Vertical	-38.02	-13.00	Pass
5250.00	V	-31.25		
7000.00	V	-31.25		
3500.00	Horizontal	-42.25		
5250.00	H	-36.65		
7000.00	H	-37.71		
15MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3435.00	Vertical	-41.26	-13.00	Pass
5152.50	V	-37.85		
6870.00	V	-37.15		
3435.00	Horizontal	-38.71		
5152.50	H	-36.61		
6870.00	H	-39.14		
Middle				
3465.00	Vertical	-41.25	-13.00	Pass
5197.50	V	-36.60		
6930.00	V	-32.25		
3465.00	Horizontal	-42.03		
5197.50	H	-36.62		
6930.00	H	-36.54		
Highest				
3495.00	Vertical	-37.92	-13.00	Pass
5242.50	V	-32.25		
6990.00	V	-31.15		
3495.00	Horizontal	-43.25		
5242.50	H	-35.62		
6990.00	H	-37.05		



20MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest</b>				
3440.00	Vertical	-42.02	-13.00	Pass
5160.00	V	-38.32		
6880.00	V	-38.15		
3440.00	Horizontal	-39.03		
5160.00	H	-37.51		
6880.00	H	-28.25		
<b>Middle</b>				
3465.00	Vertical	-38.48	-13.00	Pass
5197.50	V	-34.78		
6930.00	V	-36.93		
3465.00	Horizontal	-42.42		
5197.50	H	-42.83		
6930.00	H	-38.96		
<b>Highest</b>				
3490.00	Vertical	-37.85	-13.00	Pass
5235.00	V	-35.69		
6980.00	V	-37.15		
3490.00	Horizontal	-41.16		
5235.00	H	-41.26		
6980.00	H	-39.62		

LTE Band 7 Part:

5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest</b>				
5005.00	Vertical	-45.28	-25.00	Pass
7507.50	V	-30.50		
10010.00	V	-34.15		
5005.00	Horizontal	-46.32		
7507.50	H	-35.00		
10010.00	H	-33.26		
<b>Middle</b>				
5070.00	Vertical	-45.28	-25.00	Pass
7605.00	V	-29.05		
10140.00	V	-35.24		
5070.00	Horizontal	-46.36		
7605.00	H	-33.00		
10140.00	H	-34.17		
<b>Highest</b>				
5135.00	Vertical	-46.36	-25.00	Pass
7702.50	V	-32.50		
10270.00	V	-34.47		
5135.00	Horizontal	-45.58		
7702.50	H	-33.00		
10270.00	H	-35.71		

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest</b>				
5010.00	Vertical	-46.25	-25.00	Pass
7515.00	V	-32.25		
10020.00	V	-35.02		
5010.00	Horizontal	-45.58		
7515.00	H	-31.25		
10020.00	H	-33.25		
<b>Middle</b>				
5070.00	Vertical	-44.15	-25.00	Pass
7605.00	V	-33.41		
10140.00	V	-34.26		
5070.00	Horizontal	-46.62		
7605.00	H	-32.25		
10140.00	H	-34.61		
<b>Highest</b>				
5130.00	Vertical	-45.62	-25.00	Pass
7695.00	V	-33.41		
10260.00	V	-34.85		
5130.00	Horizontal	-45.02		
7695.00	H	-31.16		
10260.00	H	-34.04		

15MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest</b>				
5015.00	Vertical	-45.12	-25.00	Pass
7522.50	V	-32.25		
10030.00	V	-34.26		
5015.00	Horizontal	-46.28		
7522.50	H	-33.62		
10030.00	H	-35.01		
<b>Middle</b>				
5070.00	Vertical	-45.15	-25.00	Pass
7605.00	V	-31.25		
10140.00	V	-32.25		
5070.00	Horizontal	-46.36		
7605.00	H	-33.01		
10140.00	H	-34.74		
<b>Highest</b>				
5125.00	Vertical	-45.25	-25.00	Pass
7687.50	V	-33.36		
10250.00	V	-35.41		
5125.00	Horizontal	-46.32		
7687.50	H	-32.24		
10250.00	H	-34.48		

20MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest</b>				
5020.00	Vertical	-46.25	-25.00	Pass
7530.00	V	-31.15		
10040.00	V	-36.02		
5020.00	Horizontal	-46.52		
7530.00	H	-32.25		
10040.00	H	-34.02		
<b>Middle</b>				
5070.00	Vertical	-45.58	-25.00	Pass
7605.00	V	-32.41		
10140.00	V	-33.26		
5070.00	Horizontal	-45.51		
7605.00	H	-33.47		
10140.00	H	-34.62		
<b>Highest</b>				
5120.00	Vertical	-46.26	-25.00	Pass
7680.00	V	-33.52		
10240.00	V	-34.78		
5120.00	Horizontal	-45.21		
7680.00	H	-32.05		
10240.00	H	-34.15		

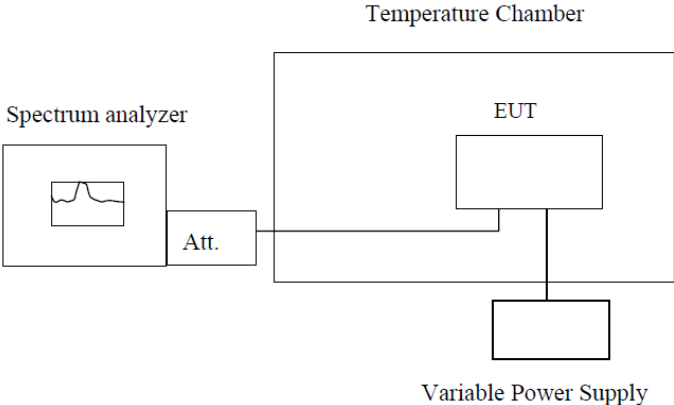
LTE Band 17 Part:

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

Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest</b>				
1413.00	Vertical	-51.34	-13.00	Pass
2119.50	V	-44.10		
2826.00	V	-48.87		
1413.00	Horizontal	-52.59		
2119.50	H	-35.53		
2826.00	H	-36.19		
<b>Middle</b>				
1420.00	Vertical	-46.05	-13.00	Pass
2130.00	V	-44.94		
2840.00	V	-38.37		
1420.00	Horizontal	-52.39		
2130.00	H	-43.41		
2840.00	H	-40.60		
<b>Highest</b>				
1427.00	Vertical	-41.25	-13.00	Pass
2140.50	V	-45.54		
2854.00	V	-33.07		
1427.00	Horizontal	-48.10		
2140.50	H	-46.80		
2854.00	H	-36.19		

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
<b>Lowest</b>				
1418.00	Vertical	-52.03	-13.00	Pass
2127.00	V	-45.16		
2836.00	V	-47.12		
1418.00	Horizontal	-50.23		
2127.00	H	-36.61		
2836.00	H	-35.57		
<b>Middle</b>				
1420.00	Vertical	-45.57	-13.00	Pass
2130.00	V	-46.63		
2840.00	V	-37.79		
1420.00	Horizontal	-53.25		
2130.00	H	-43.26		
2840.00	H	-42.27		
<b>Highest</b>				
1422.00	Vertical	-42.51	-13.00	Pass
2133.00	V	-42.28		
2844.00	V	-35.62		
1422.00	Horizontal	-47.85		
2133.00	H	-47.66		
2844.00	H	-37.02		

## 6.12 Frequency stability V.S. Temperature measurement

Test Requirement:	FCC Part 2.1055(a)(1)(b)
Test Method:	FCC Part 2.1055(a)(1)(b)
Limit:	±2.5 ppm
Test setup:	 <p><b>Note :</b> Measurement setup for testing on Antenna connector</p>
Test procedure:	<ol style="list-style-type: none"> <li>1. The equipment under test was connected to an external DC power supply and input rated voltage.</li> <li>2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators.</li> <li>3. The EUT was placed inside the temperature chamber.</li> <li>4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency.</li> <li>5. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency.</li> <li>6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached</li> </ol>
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	All three channels of all modulations have been tested, but only the worst channel and the worst modulation show in this test item.

Measurement Data (the worst channel):



**LTE Band 4(QPSK):**

Reference Frequency: LTE Band 4(1.4MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	132	0.076190	±2.5	Pass
	-20	104	0.060029		
	-10	125	0.072150		
	0	195	0.112554		
	10	103	0.059452		
	20	107	0.061760		
	30	130	0.075036		
	40	136	0.078499		
	50	148	0.085426		
Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	162	0.093506	±2.5	Pass
	-20	163	0.094084		
	-10	145	0.083694		
	0	176	0.101587		
	10	175	0.101010		
	20	150	0.086580		
	30	157	0.090620		
	40	156	0.090043		
	50	125	0.072150		
Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	138	0.079654	±2.5	Pass
	-20	133	0.076768		
	-10	135	0.077922		
	0	126	0.072727		
	10	148	0.085426		
	20	145	0.083694		
	30	126	0.072727		
	40	138	0.079654		
	50	109	0.062915		

Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	107	0.061760	±2.5	Pass
	-20	129	0.074459		
	-10	125	0.072150		
	0	136	0.078499		
	10	148	0.085426		
	20	149	0.086003		
	30	108	0.062338		
	40	118	0.068110		
	50	136	0.078499		
Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	124	0.071573	±2.5	Pass
	-20	129	0.074459		
	-10	124	0.071573		
	0	156	0.090043		
	10	158	0.091198		
	20	149	0.086003		
	30	108	0.062338		
	40	119	0.068687		
	50	132	0.076190		
Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	139	0.080231	±2.5	Pass
	-20	162	0.093506		
	-10	115	0.066378		
	0	109	0.062915		
	10	106	0.061183		
	20	108	0.062338		
	30	129	0.074459		
	40	130	0.075036		
	50	137	0.079076		

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

Reference Frequency: LTE Band 4(1.4MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	109	0.062915	±2.5	Pass
	-20	120	0.069264		
	-10	128	0.073882		
	0	139	0.080231		
	10	105	0.060606		
	20	148	0.085426		
	30	167	0.096392		
	40	105	0.060606		
	50	126	0.072727		
Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	106	0.061183	±2.5	Pass
	-20	120	0.069264		
	-10	125	0.072150		
	0	134	0.077345		
	10	136	0.078499		
	20	146	0.084271		
	30	142	0.081962		
	40	145	0.083694		
	50	106	0.061183		
Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	128	0.073882	±2.5	Pass
	-20	129	0.074459		
	-10	128	0.073882		
	0	136	0.078499		
	10	132	0.076190		
	20	145	0.083694		
	30	107	0.061760		
	40	105	0.060606		
	50	119	0.068687		

Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	132	0.076190	±2.5	Pass
	-20	136	0.078499		
	-10	108	0.062338		
	0	100	0.057720		
	10	125	0.072150		
	20	126	0.072727		
	30	135	0.077922		
	40	153	0.088312		
	50	142	0.081962		
Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	117	0.067532	±2.5	Pass
	-20	122	0.070418		
	-10	155	0.089466		
	0	140	0.080808		
	10	145	0.083694		
	20	106	0.061183		
	30	128	0.073882		
	40	125	0.072150		
	50	109	0.062915		
Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	106	0.061183	±2.5	Pass
	-20	108	0.062338		
	-10	120	0.069264		
	0	129	0.074459		
	10	128	0.073882		
	20	147	0.084848		
	30	139	0.080231		
	40	138	0.079654		
	50	106	0.061183		

**LTE Band 7(QPSK):**

Reference Frequency: LTE Band 7(5MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	102	0.040237	±2.5	Pass
	-20	176	0.069428		
	-10	168	0.066272		
	0	103	0.040631		
	10	150	0.059172		
	20	145	0.057199		
	30	166	0.065483		
	40	145	0.057199		
	50	106	0.041815		
Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	163	0.064300	±2.5	Pass
	-20	157	0.061933		
	-10	154	0.060750		
	0	145	0.057199		
	10	138	0.054438		
	20	128	0.050493		
	30	129	0.050888		
	40	126	0.049704		
	50	155	0.061144		
Reference Frequency: LTE Band 7(15MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	142	0.056016	±2.5	Pass
	-20	145	0.057199		
	-10	130	0.051282		
	0	123	0.048521		
	10	127	0.050099		
	20	106	0.041815		
	30	128	0.050493		
	40	135	0.053254		
	50	139	0.054832		
Reference Frequency: LTE Band 7(20MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	175	0.069034	±2.5	Pass
	-20	169	0.066667		
	-10	107	0.042209		
	0	128	0.050493		
	10	165	0.065089		
	20	129	0.050888		
	30	105	0.041420		
	40	107	0.042209		
	50	126	0.049704		

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

Reference Frequency: LTE Band 7(5MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	105	0.041420	±2.5	Pass
	-20	129	0.050888		
	-10	133	0.052465		
	0	138	0.054438		
	10	105	0.041420		
	20	127	0.050099		
	30	125	0.049310		
	40	109	0.042998		
	50	107	0.042209		
Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	166	0.065483	±2.5	Pass
	-20	125	0.049310		
	-10	129	0.050888		
	0	138	0.054438		
	10	136	0.053649		
	20	138	0.054438		
	30	145	0.057199		
	40	146	0.057594		
	50	150	0.059172		
Reference Frequency: LTE Band 7(15MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	117	0.046154	2.5	Pass
	-20	139	0.054832		
	-10	128	0.050493		
	0	176	0.069428		
	10	165	0.065089		
	20	125	0.049310		
	30	126	0.049704		
	40	118	0.046548		
	50	106	0.041815		
Reference Frequency: LTE Band 7(20MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	105	0.041420	2.5	Pass
	-20	108	0.042604		
	-10	119	0.046943		
	0	128	0.050493		
	10	129	0.050888		
	20	119	0.046943		
	30	109	0.042998		
	40	125	0.049310		
	50	129	0.050888		

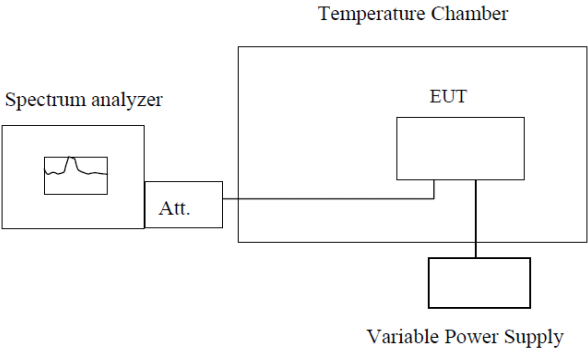
**LTE Band 17(QPSK):**

Reference Frequency: LTE Band 17(5MHz) Middle channel=23790 channel=710.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	152	0.214085	±2.5	Pass
	-20	128	0.180282		
	-10	133	0.187324		
	0	115	0.161972		
	10	122	0.171831		
	20	109	0.153521		
	30	108	0.152113		
	40	105	0.147887		
	50	119	0.167605		
Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 channel=710.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	129	0.181690	±2.5	Pass
	-20	139	0.195775		
	-10	146	0.205634		
	0	127	0.178873		
	10	108	0.152113		
	20	139	0.195775		
	30	118	0.166197		
	40	108	0.152113		
	50	129	0.181690		

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

Reference Frequency: LTE Band 17(5MHz) Middle channel=23790 channel=710.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	155	0.218310	±2.5	Pass
	-20	105	0.147887		
	-10	139	0.195775		
	0	120	0.169014		
	10	119	0.167606		
	20	136	0.191549		
	30	109	0.153521		
	40	108	0.152113		
	50	105	0.147887		
Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 channel=710.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	109	0.153521	±2.5	Pass
	-20	116	0.163380		
	-10	148	0.208451		
	0	139	0.195775		
	10	125	0.176056		
	20	113	0.159155		
	30	119	0.167606		
	40	128	0.180282		
	50	129	0.181690		

## 6.13 Frequency stability V.S. Voltage measurement

Test Requirement:	FCC Part 2.1055(d)(1)(2)
Test Method:	FCC Part 2.1055(d)(1)(2)
Limit:	2.5ppm
Test setup:	 <p style="text-align: center;">Temperature Chamber</p> <p style="text-align: center;">Spectrum analyzer</p> <p style="text-align: center;">Att.</p> <p style="text-align: center;">EUT</p> <p style="text-align: center;">Variable Power Supply</p> <p><b>Note :</b> Measurement setup for testing on Antenna connector</p>
Test procedure:	<ol style="list-style-type: none"> <li>1. Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage.</li> <li>2. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.</li> <li>3. Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.</li> </ol>
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details, and all channels have been tested, only shows the worst channel data in this report.
Test results:	Passed

Measurement Data (the worst channel):



**LTE Band 4(QPSK):**

Reference Frequency: LTE Band 4(1.4MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	79	0.045599	±2.5	Pass
	3.70	85	0.049062		
	3.40	99	0.057143		
Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	58	0.033478	±2.5	Pass
	3.70	65	0.037518		
	3.40	65	0.037518		
Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	93	0.053680	±2.5	Pass
	3.70	89	0.051371		
	3.40	85	0.049062		
Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	80	0.046176	±2.5	Pass
	3.70	79	0.045599		
	3.40	75	0.043290		
Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	65	0.037518	±2.5	Pass
	3.70	63	0.036364		
	3.40	93	0.053680		
Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	85	0.049062	±2.5	Pass
	3.70	99	0.057143		
	3.40	89	0.051371		

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

Reference Frequency: LTE Band 4(1.4MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	69	0.039827	±2.5	Pass
	3.70	86	0.049639		
	3.40	85	0.049062		
Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	52	0.030014	±2.5	Pass
	3.70	96	0.055411		
	3.40	93	0.053680		
Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	85	0.049062	±2.5	Pass
	3.70	63	0.036364		
	3.40	72	0.041558		
Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	56	0.032323	±2.5	Pass
	3.70	94	0.054257		
	3.40	85	0.049062		
Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	85	0.049062	±2.5	Pass
	3.70	93	0.053680		
	3.40	72	0.041558		
Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	84	0.048485	±2.5	Pass
	3.70	85	0.049062		
	3.40	93	0.053680		

**LTE Band 7(QPSK):**

Reference Frequency: LTE Band 7(5MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	85	0.033531	±2.5	Pass
	3.70	99	0.039053		
	3.40	86	0.033925		
Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	95	0.037475	±2.5	Pass
	3.70	63	0.024852		
	3.40	74	0.029191		
Reference Frequency: LTE Band 7(15MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	85	0.033531	±2.5	Pass
	3.70	78	0.030769		
	3.40	96	0.037870		
Reference Frequency: LTE Band 7(20MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	110	0.043393	±2.5	Pass
	3.70	88	0.034714		
	3.40	96	0.037870		

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

Reference Frequency: LTE Band 7(5MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	82	0.032347	±2.5	Pass
	3.70	62	0.024458		
	3.40	63	0.024852		
Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	45	0.017751	±2.5	Pass
	3.70	49	0.019329		
	3.40	75	0.029586		
Reference Frequency: LTE Band 7(15MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	95	0.037475	±2.5	Pass
	3.70	96	0.037870		
	3.40	55	0.021696		
Reference Frequency: LTE Band 7(20MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	63	0.024852	±2.5	Pass
	3.70	83	0.032742		
	3.40	85	0.033531		

**LTE Band 17(QPSK):**

Reference Frequency: LTE Band 17(5MHz) Middle channel=23790 channel=710.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	56	0.078873	±2.5	Pass
	3.70	85	0.119718		
	3.40	72	0.101408		
Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 channel=710.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	93	0.130986	±2.5	Pass
	3.70	88	0.123944		
	3.40	89	0.125352		

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

Reference Frequency: LTE Band 17(5MHz) Middle channel=23790 channel=710.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	72	0.101408	±2.5	Pass
	3.70	62	0.087324		
	3.40	89	0.125352		
Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 channel=710.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	79	0.111268	±2.5	Pass
	3.70	75	0.105634		
	3.40	95	0.133803		