

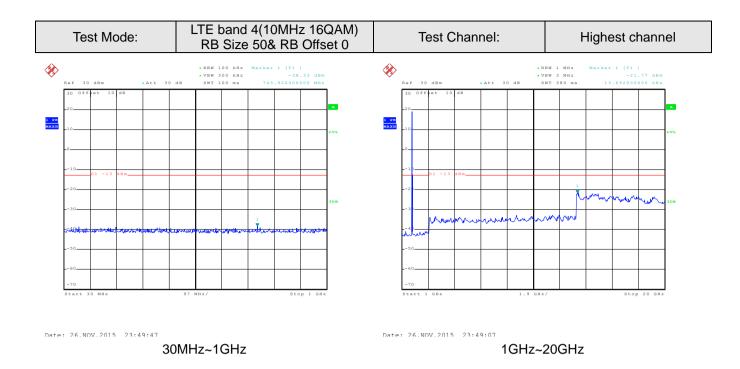
Shenzhen Zhongjian Nanfang Testing Co., Ltd. No.B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366

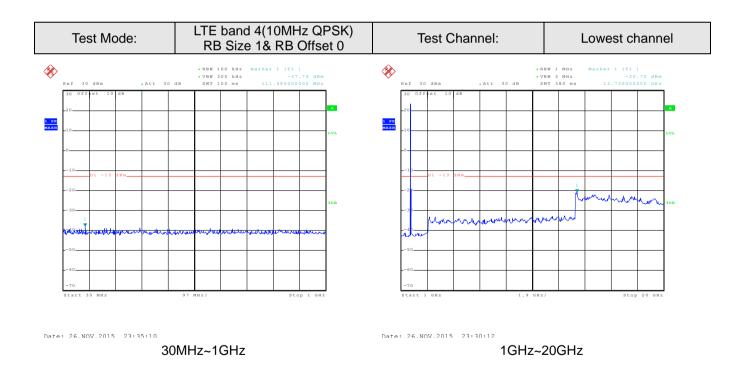
Project No.: CCIS151100903RF

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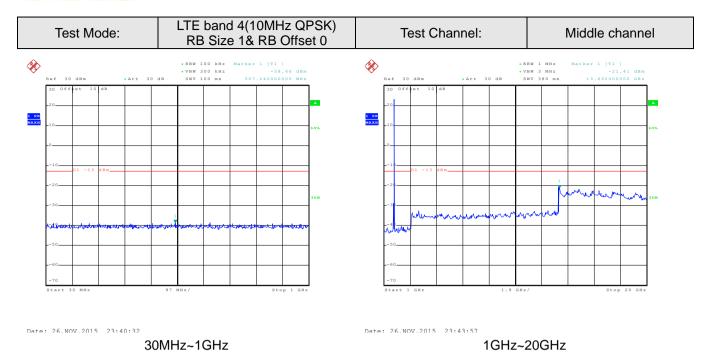


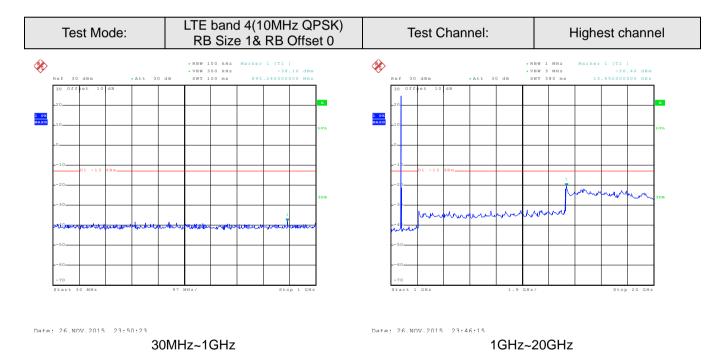






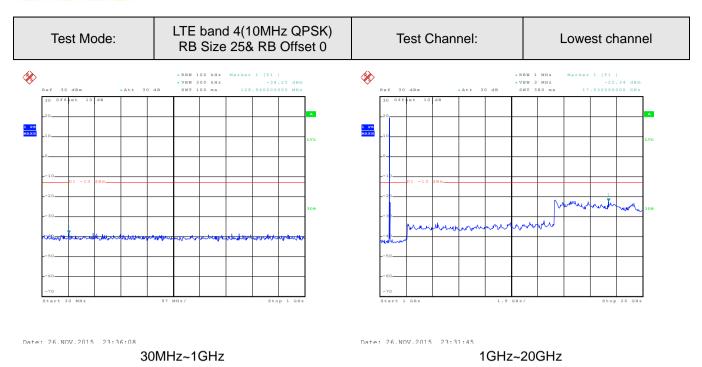


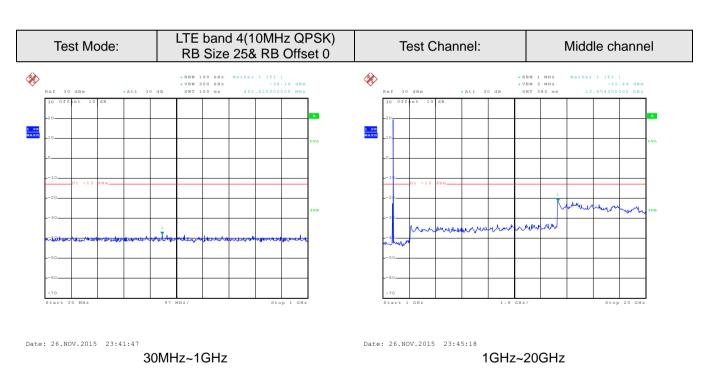






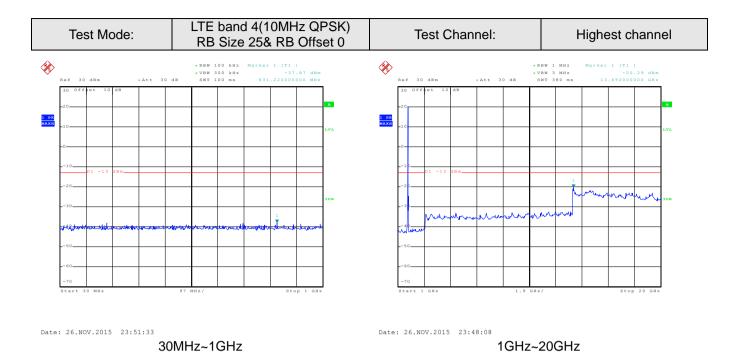


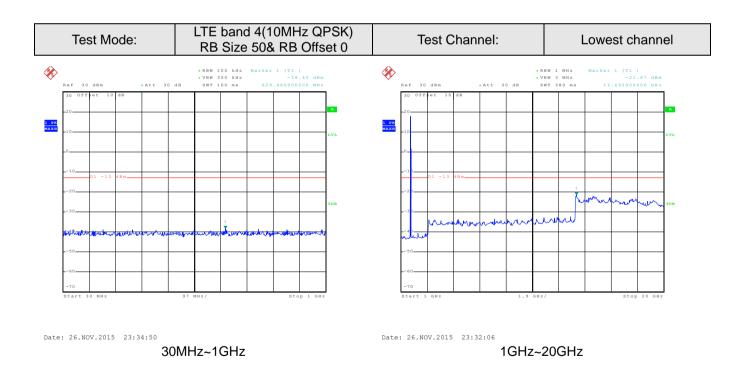






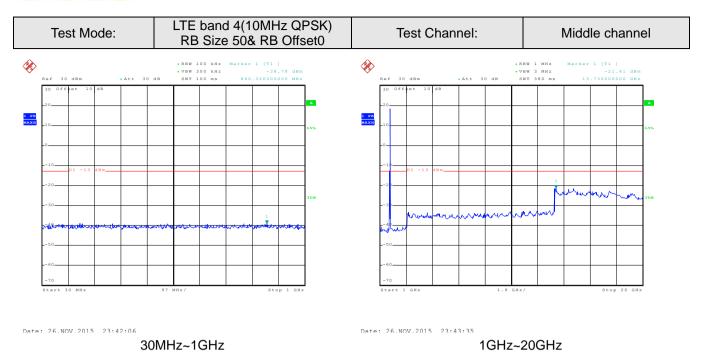


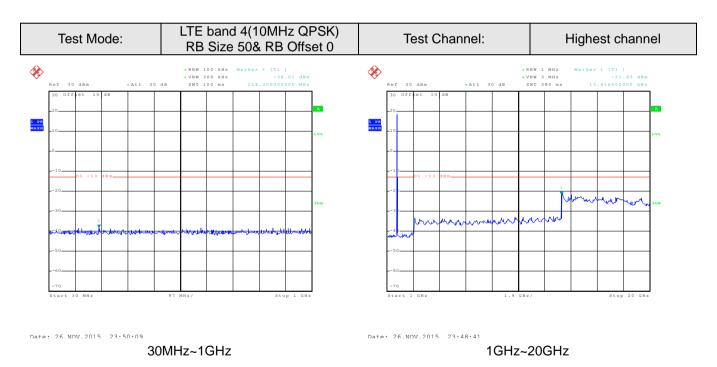








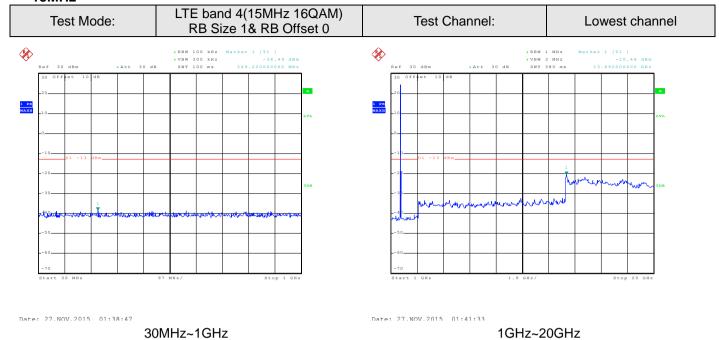


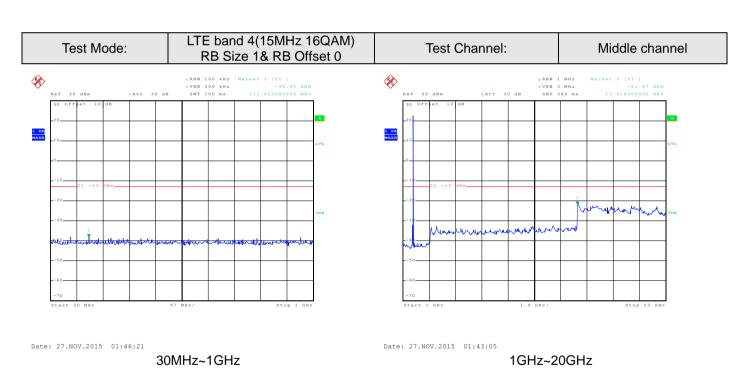






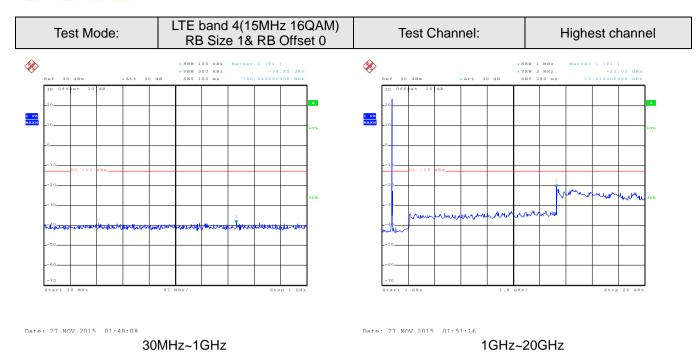
15MHz

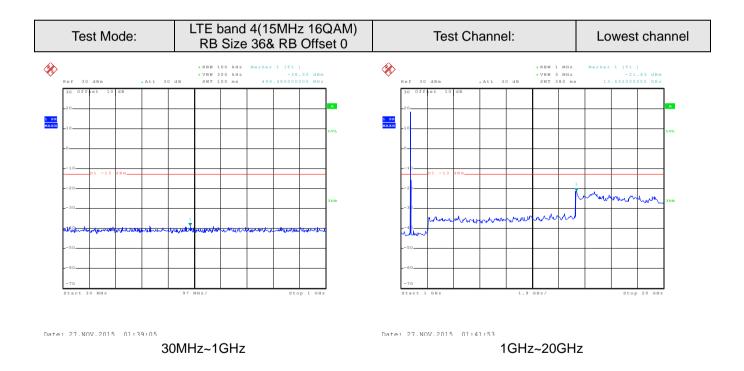










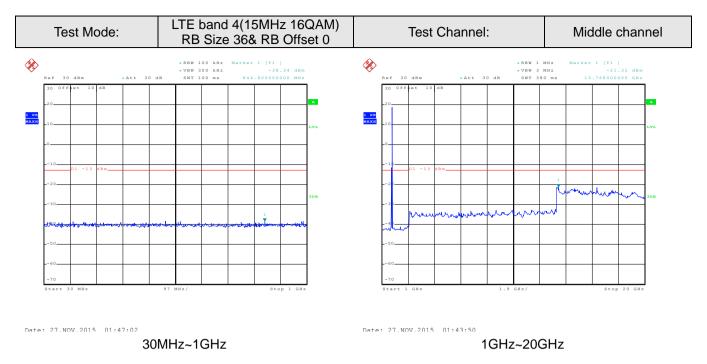


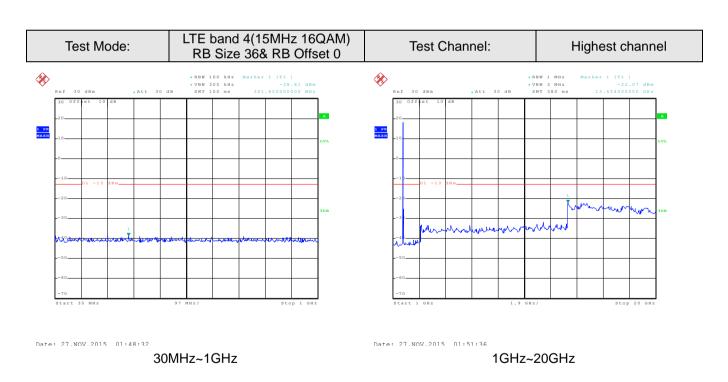
Shenzhen Zhongjian Nanfang Testing Co., Ltd. No.B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366

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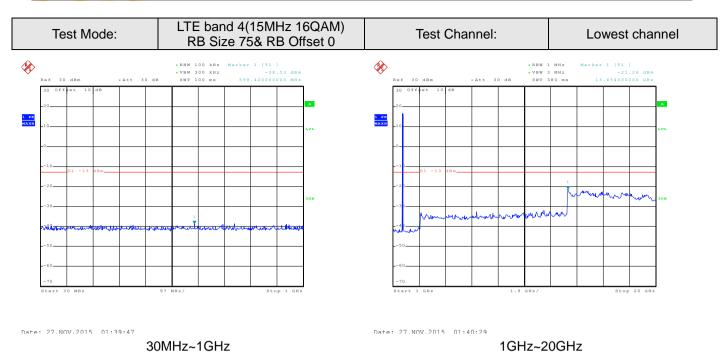


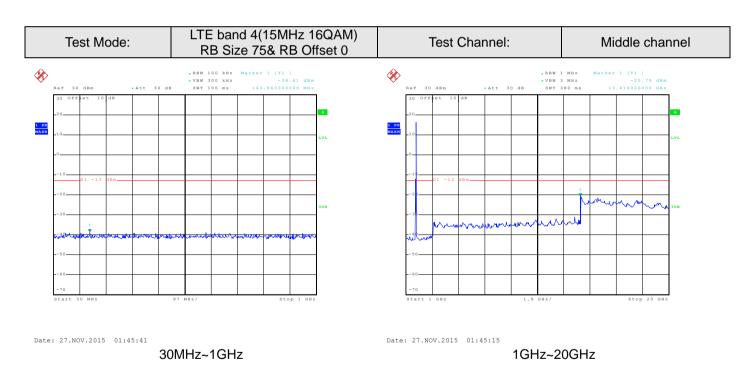






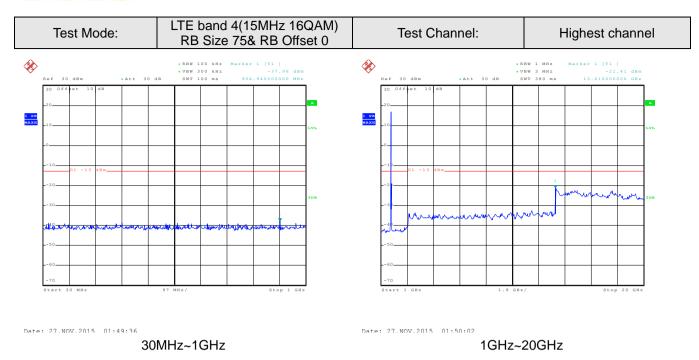


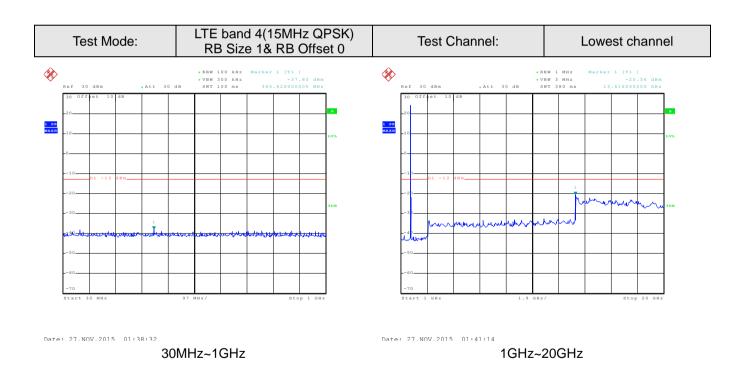






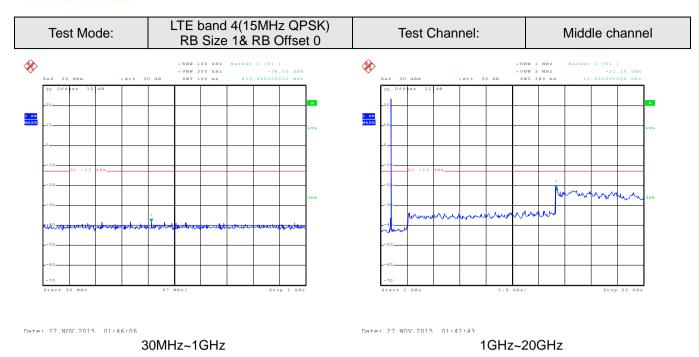


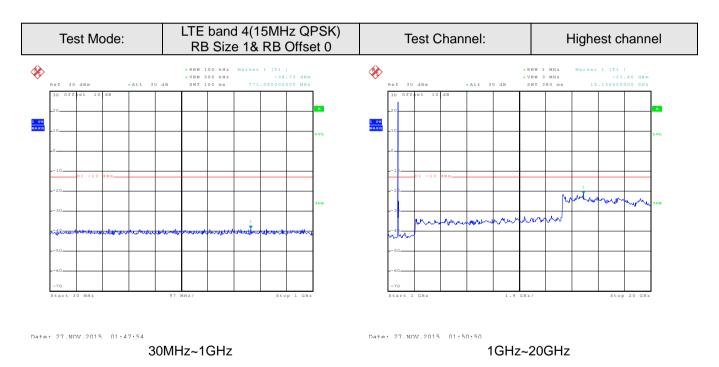






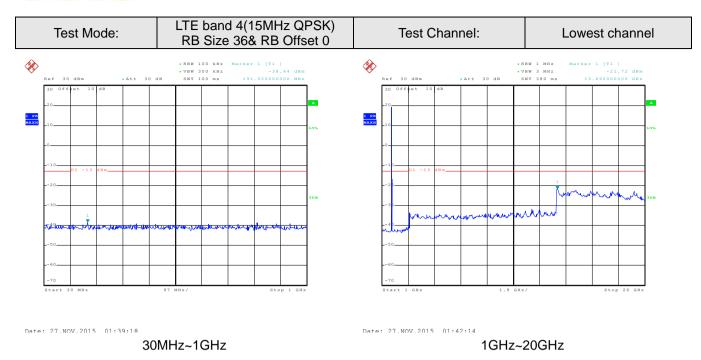


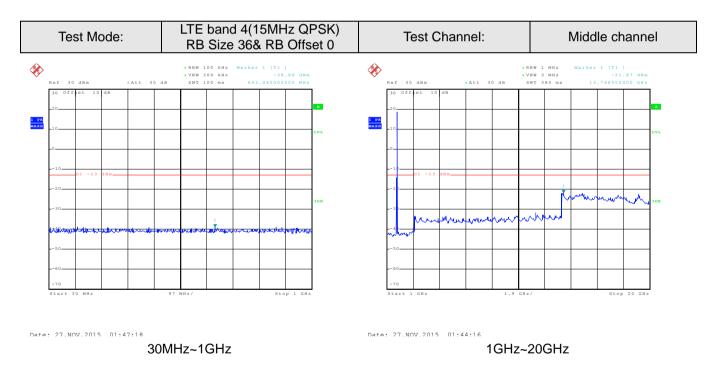








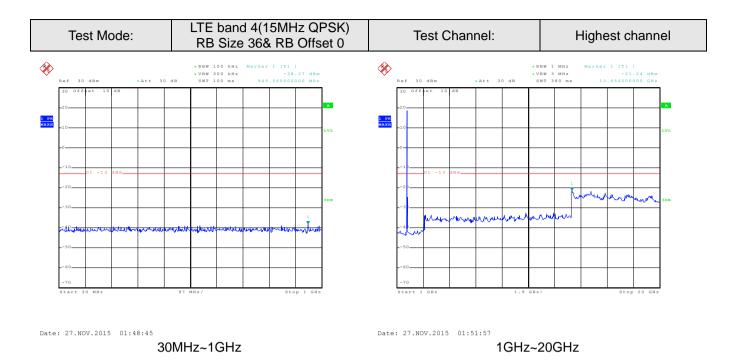


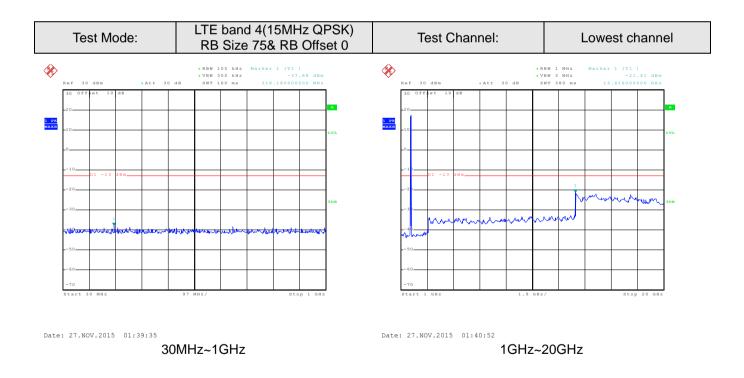


Bao'an District, Shenzhen, Guangdong, China Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366



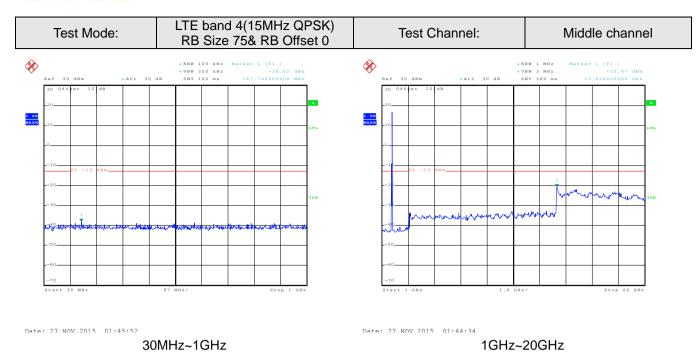


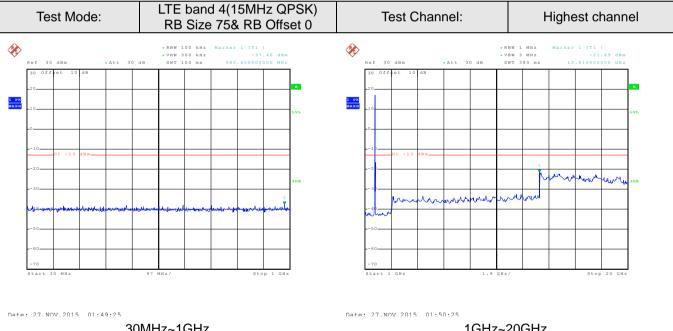










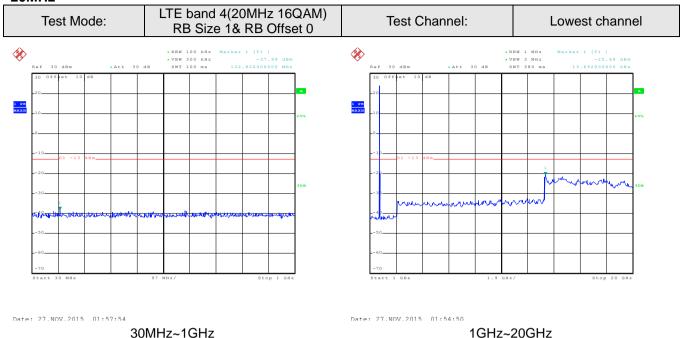


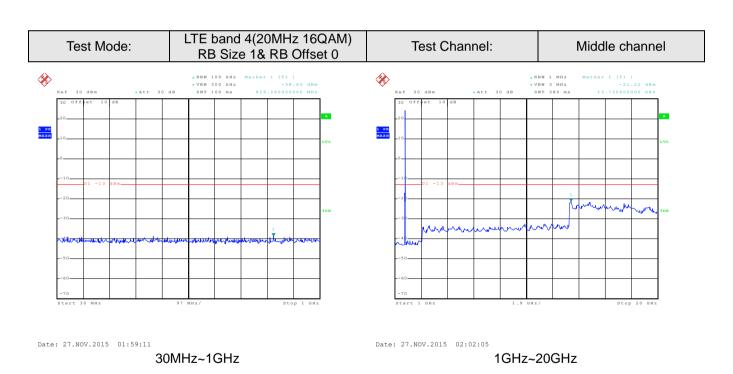
1GHz~20GHz 30MHz~1GHz





20MHz





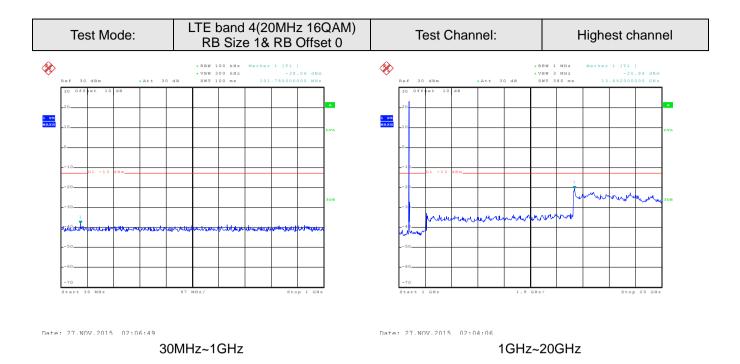
Shenzhen Zhongjian Nanfang Testing Co., Ltd.
No.B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,
Bao'an District, Shenzhen, Guangdong, China

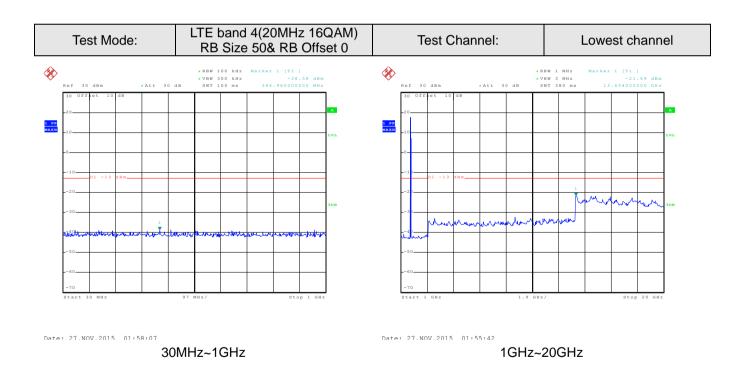
Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366

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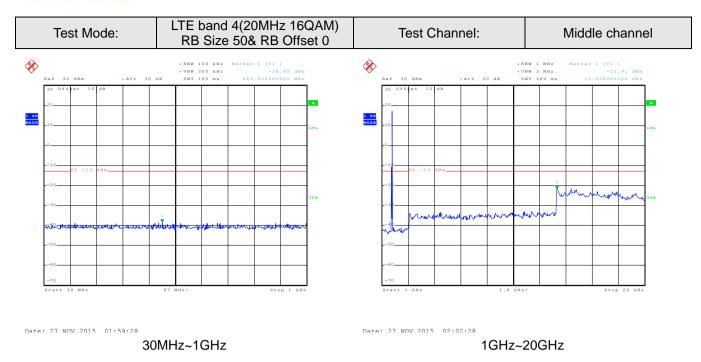


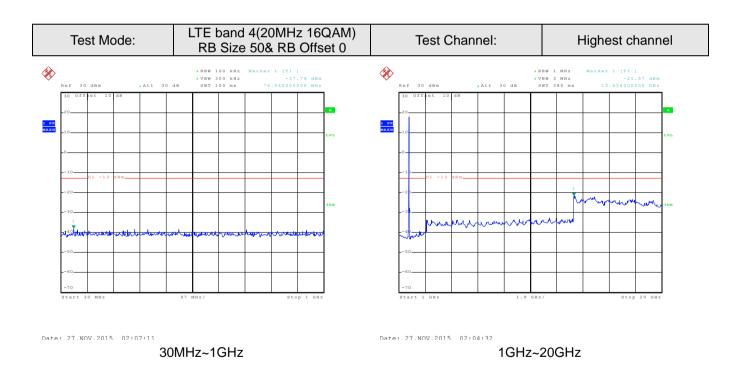






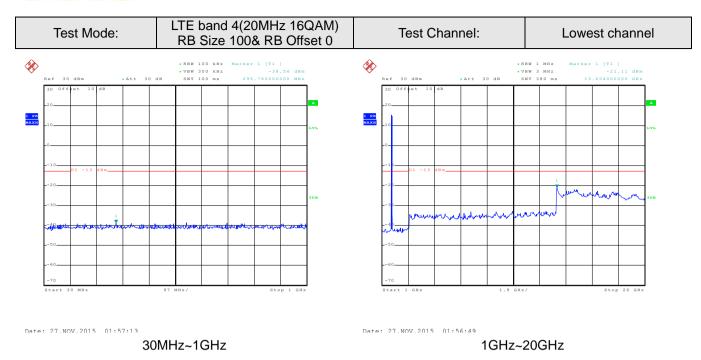


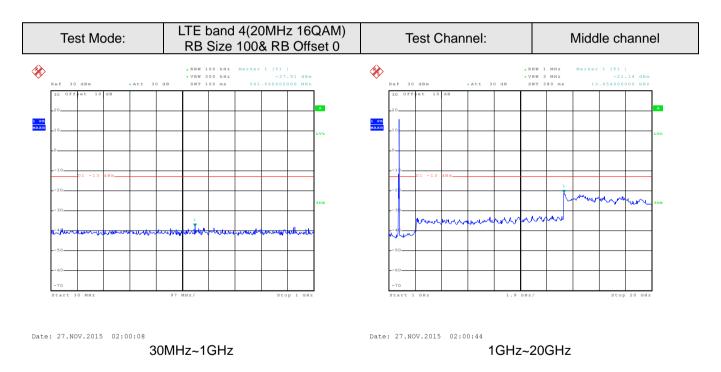












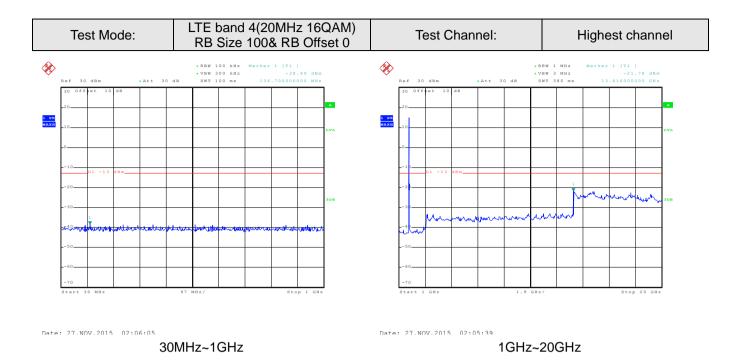
Shenzhen Zhongjian Nanfang Testing Co., Ltd. No.B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366

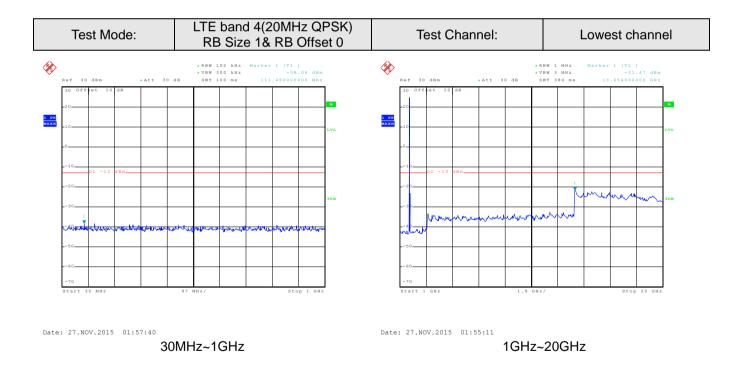
Project No.: CCIS151100903RF

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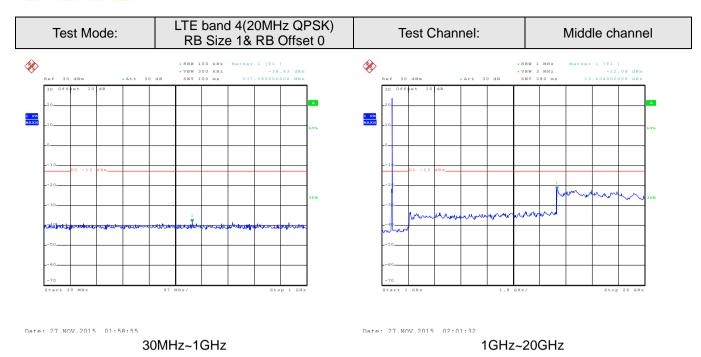


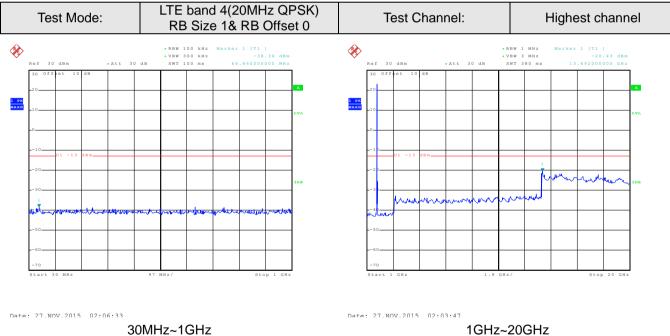








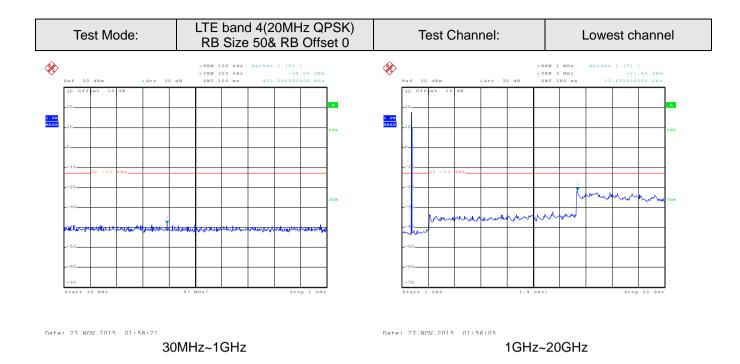


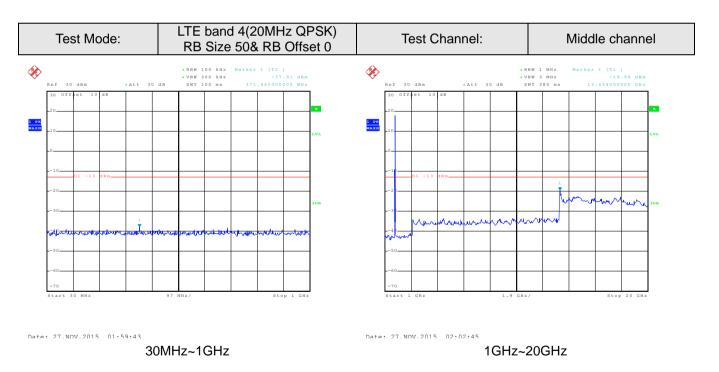


30MHz~1GHz



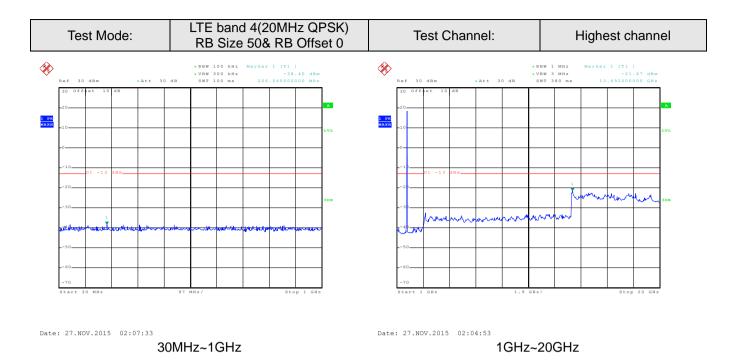


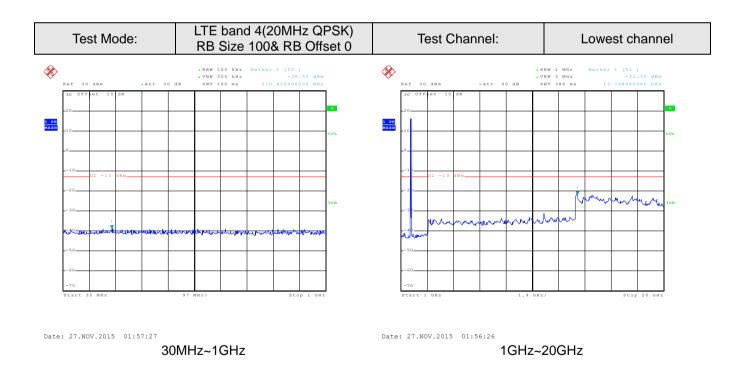






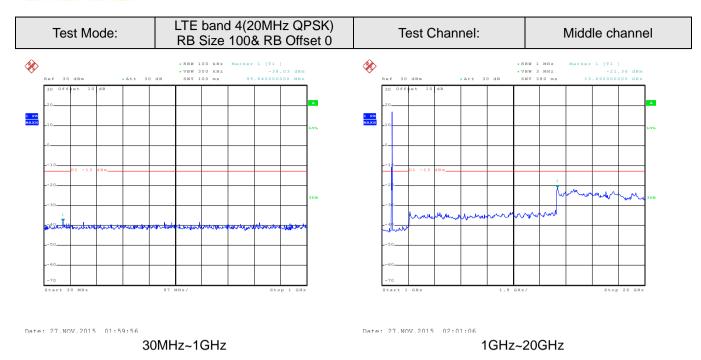


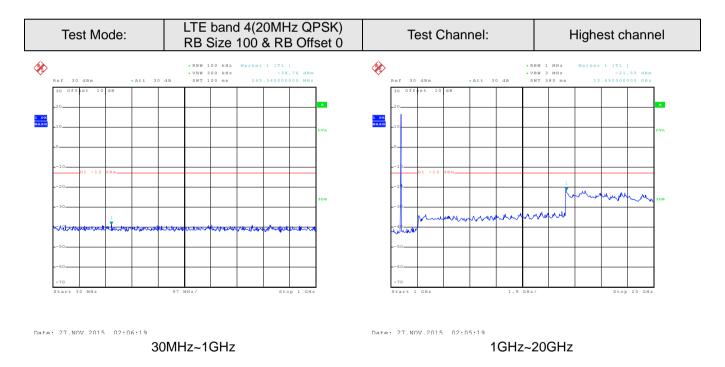












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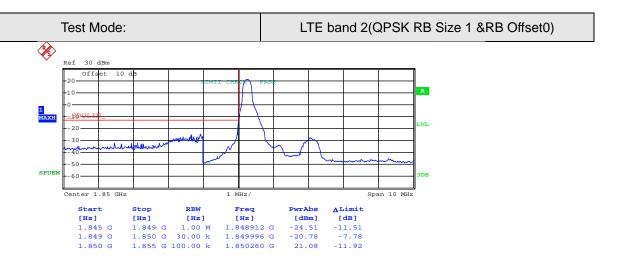




Band edge emission:

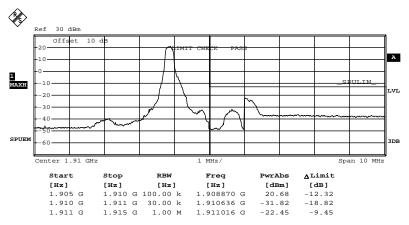
LTE band 2 part:

1.4MHz:



Date: 27.NOV.2015 02:33:10

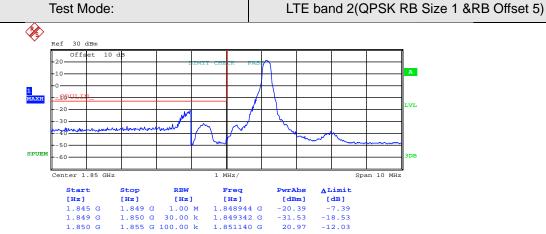
Lowest channel



Date: 27.NOV.2015 02:38:12

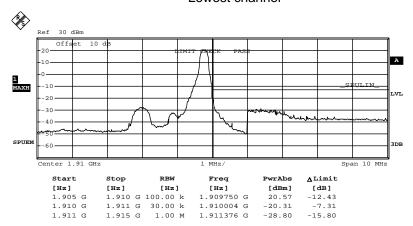
Highest channel





Date: 27.NOV.2015 02:33:50

Lowest channel



Date: 27.NOV.2015 02:40:14

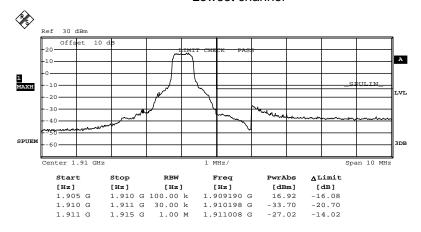
Highest channel





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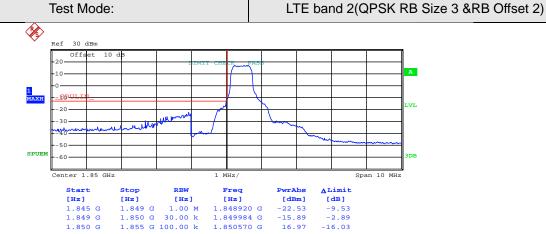
Lowest channel



Date: 27.NOV.2015 02:41:42

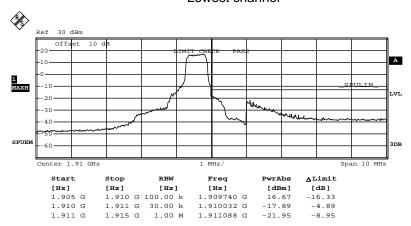
Highest channel





Date: 27.NOV.2015 02:34:51

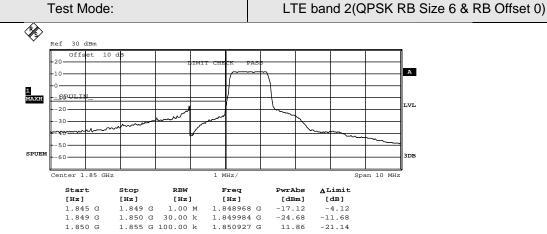
Lowest channel



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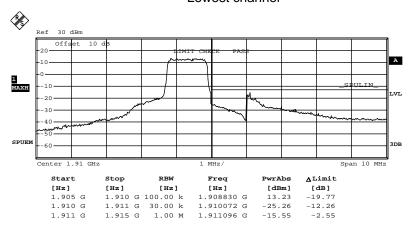
Highest channel





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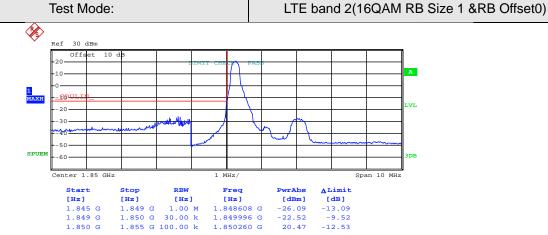
Lowest channel



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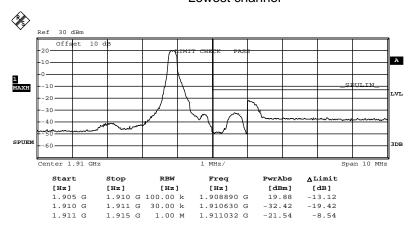
Highest channel





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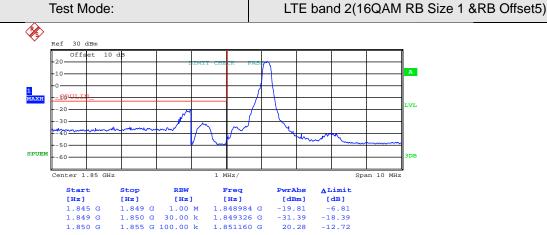
Lowest channel



Date: 27.NOV.2015 02:38:36

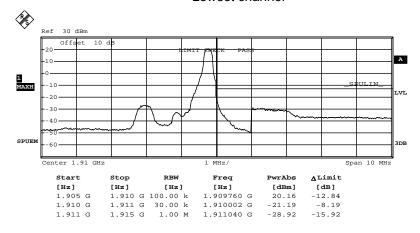
Highest channel





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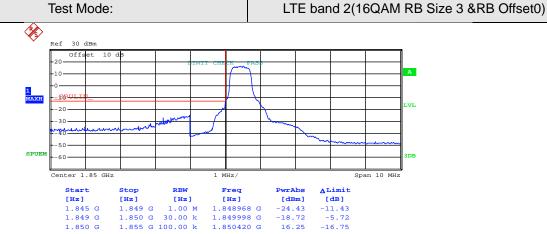
Lowest channel



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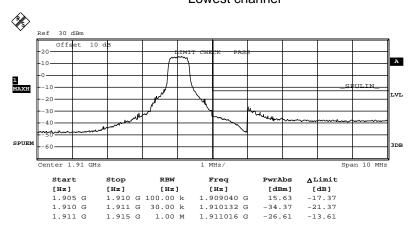
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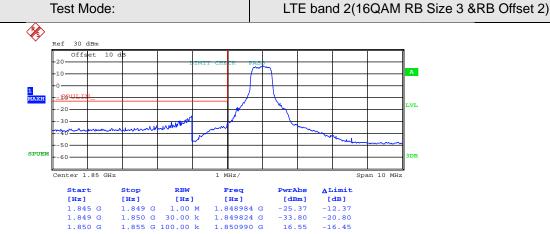
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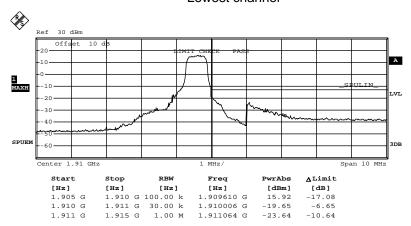
Highest channel





Date: 27.NOV.2015 02:34:37

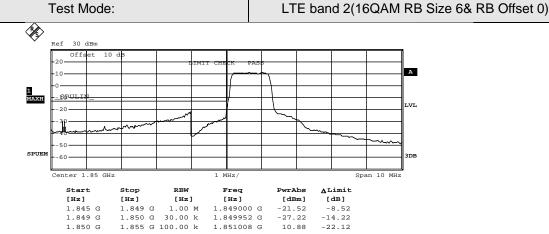
Lowest channel



Date: 27.NOV.2015 02:42:15

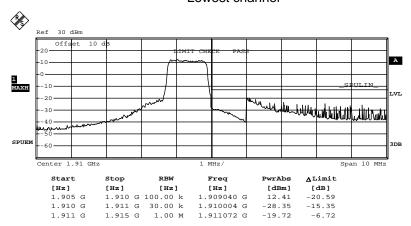
Highest channel





Date: 27.NOV.2015 02:37:11

Lowest channel

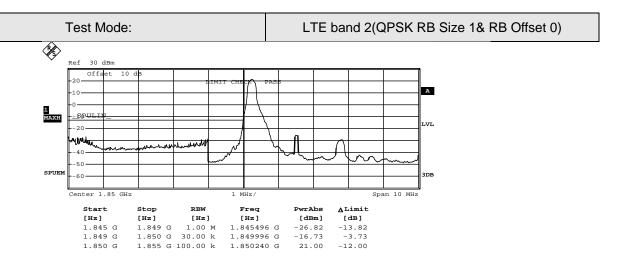


Date: 27.NOV.2015 02:42:49

Highest channel

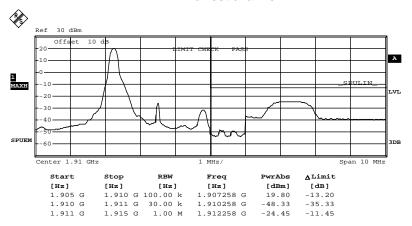


3MHz:



Date: 27.NOV.2015 02:46:21

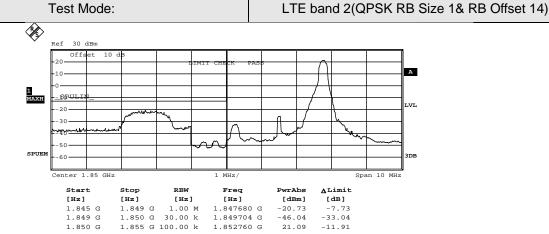
Lowest channel



Date: 27.NOV.2015 02:51:21

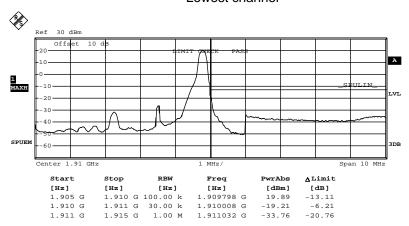
Highest channel





Date: 27.NOV.2015 02:47:05

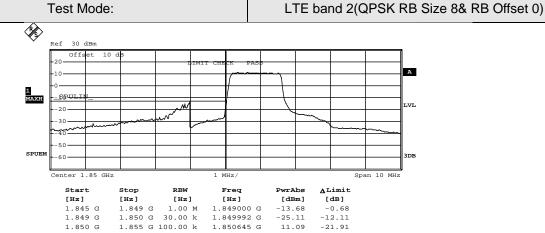
Lowest channel



Date: 27.NOV.2015 02:52:10

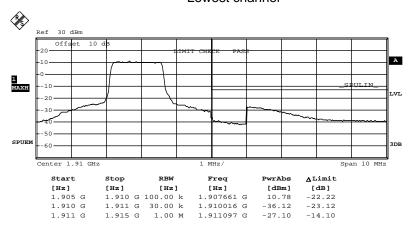
Highest channel





Date: 27.NOV.2015 02:47:49

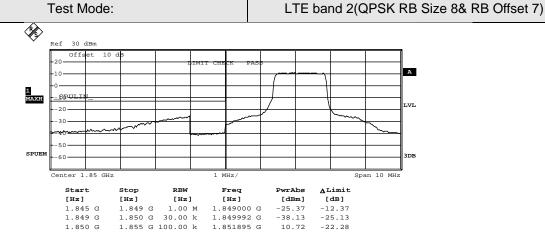
Lowest channel



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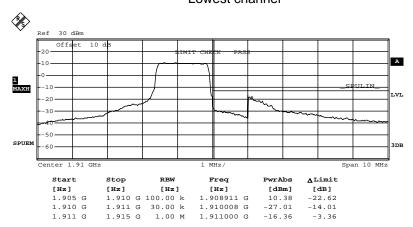
Highest channel





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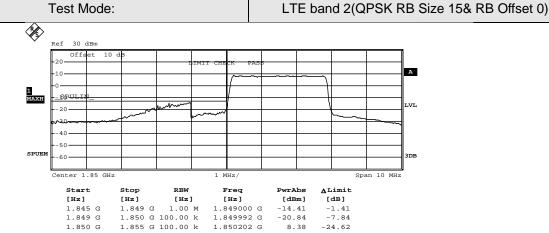
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Date: 27.NOV.2015 02:53:53

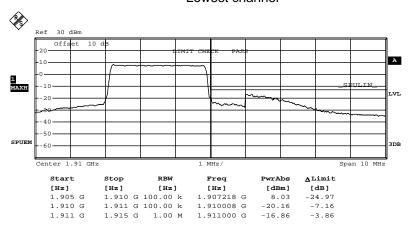
Highest channel





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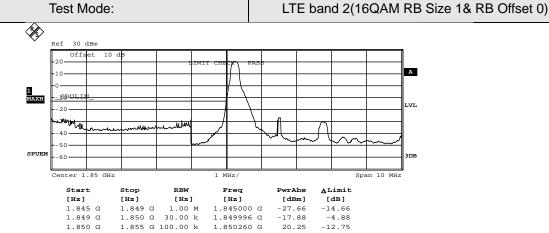
Lowest channel



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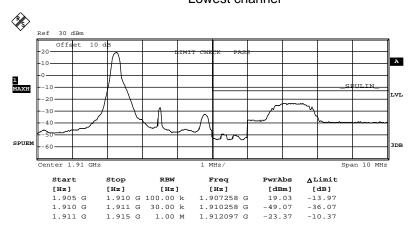
Highest channel





Date: 27.NOV.2015 02:46:36

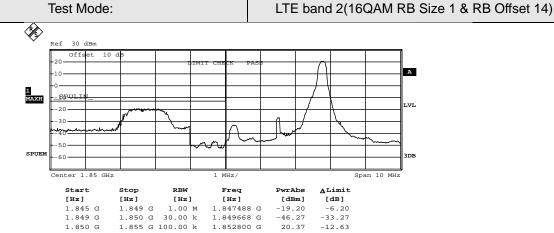
Lowest channel



Date: 27.NOV.2015 02:51:37

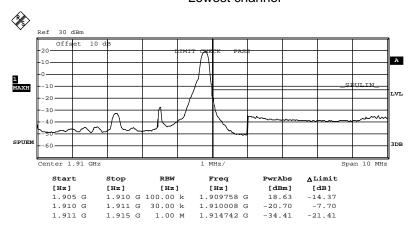
Highest channel





Date: 27.NOV.2015 02:46:54

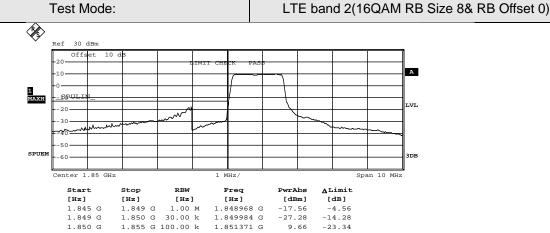
Lowest channel



Date: 27.NOV.2015 02:51:57

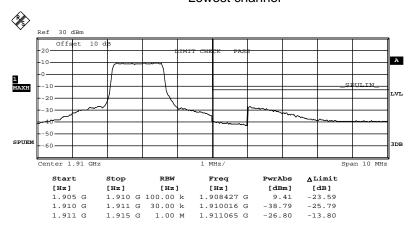
Highest channel





Date: 27.NOV.2015 02:48:04

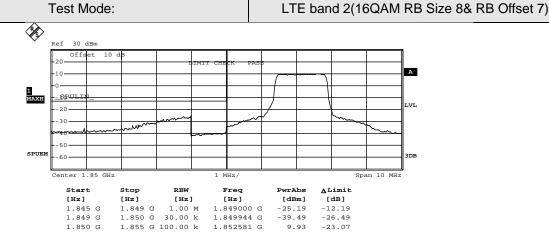
Lowest channel



Date: 27.NOV.2015 02:53:23

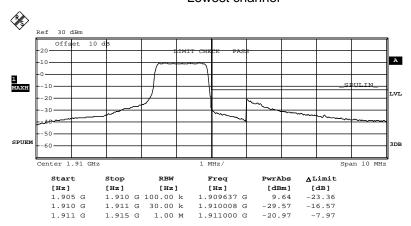
Highest channel





Date: 27.NOV.2015 02:48:17

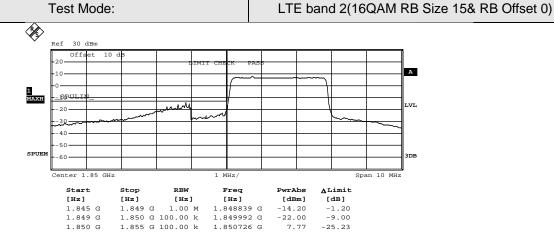
Lowest channel



Date: 27.NOV.2015 02:53:37

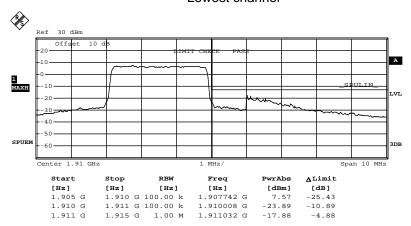
Highest channel





Date: 27.NOV.2015 02:49:27

Lowest channel

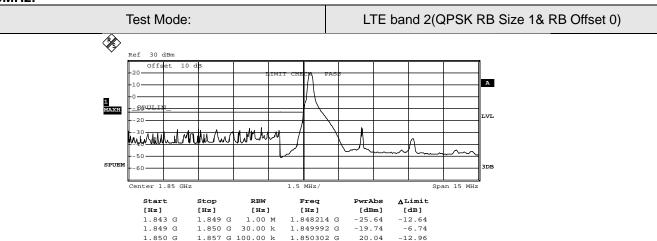


Date: 27.NOV.2015 02:54:27

Highest channel

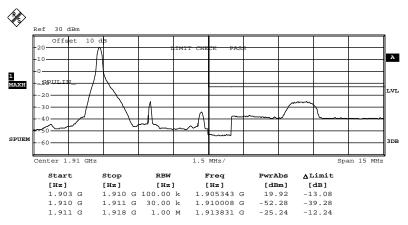


5MHz:



Date: 27.NOV.2015 02:55:46

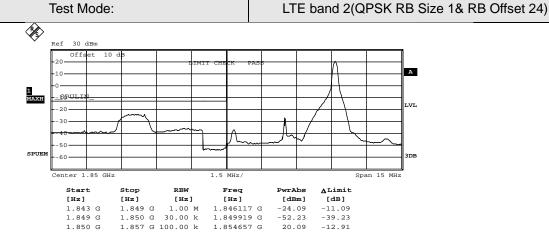
Lowest channel



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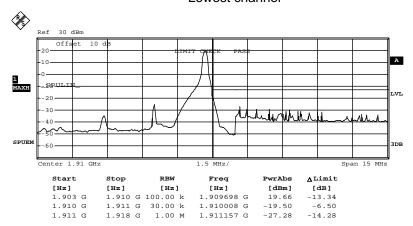
Highest channel





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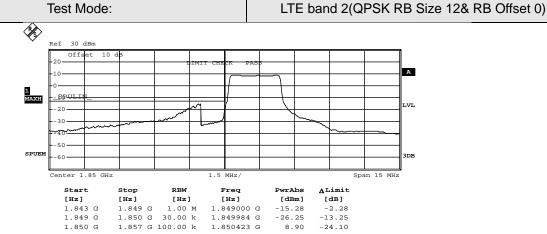
Lowest channel



Date: 27.NOV.2015 03:01:01

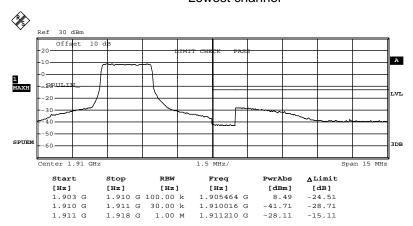
Highest channel





Date: 27.NOV.2015 02:56:53

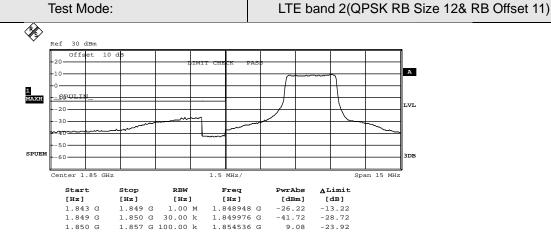
Lowest channel



Date: 27.NOV.2015 03:01:22

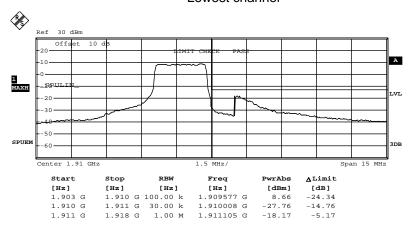
Highest channel





Date: 27.NOV.2015 02:58:03

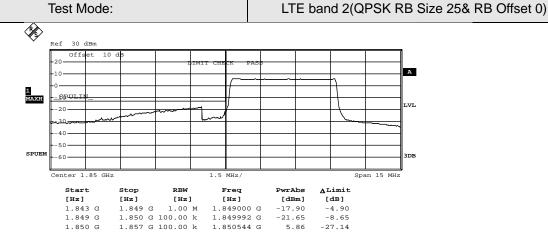
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Date: 27.NOV.2015 03:02:23

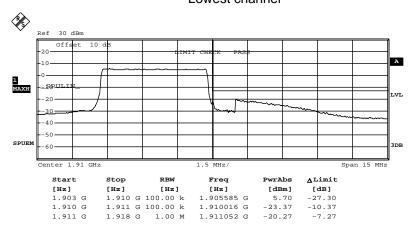
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Date: 27.NOV.2015 02:59:04

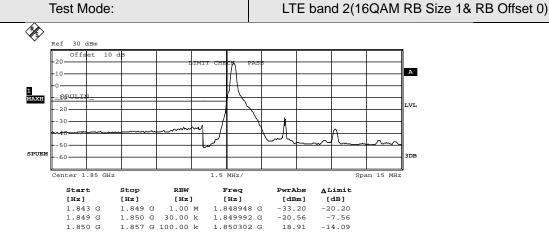
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Date: 27.NOV.2015 03:02:51

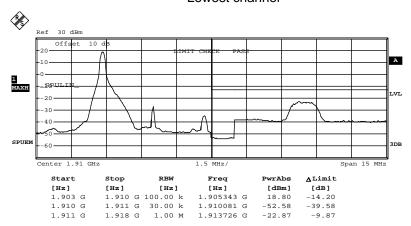
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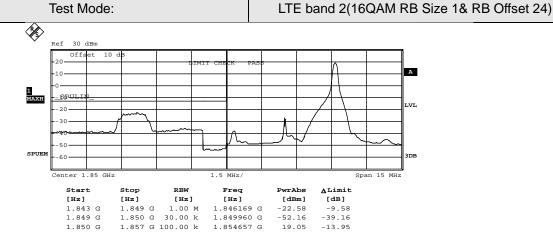
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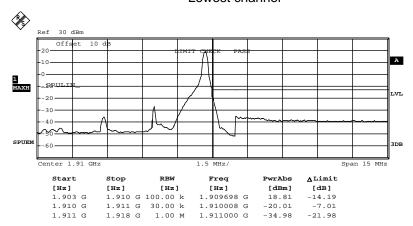
Highest channel





Date: 27.NOV.2015 02:56:19

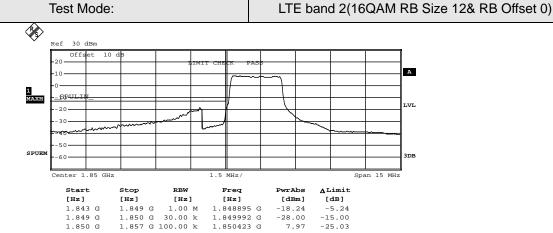
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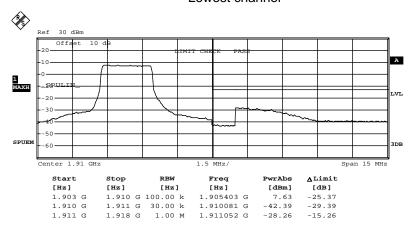
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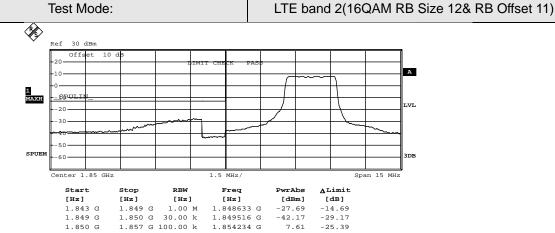
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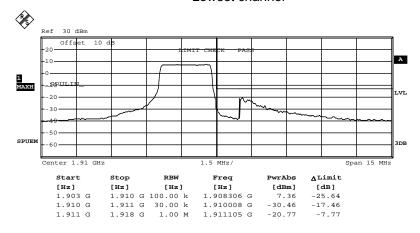
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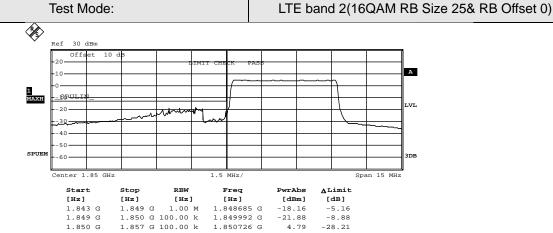
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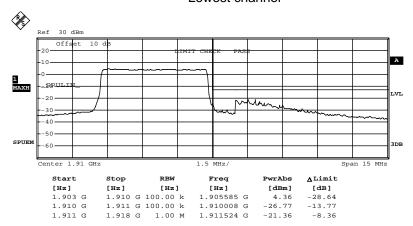
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Date: 27.NOV.2015 02:59:16

Lowest channel

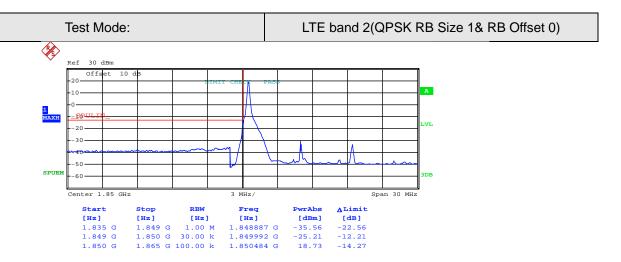


Date: 27.NOV.2015 03:03:02

Highest channel

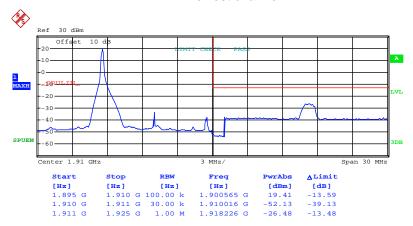


10MHz:



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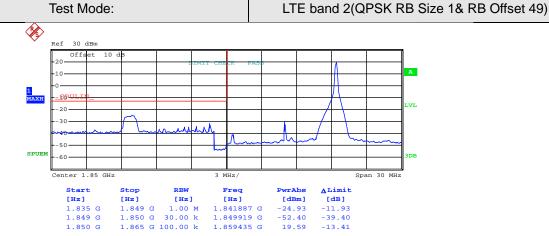
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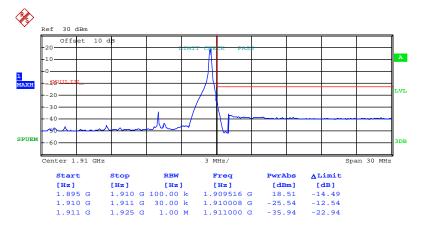
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Date: 27.NOV.2015 04:45:46

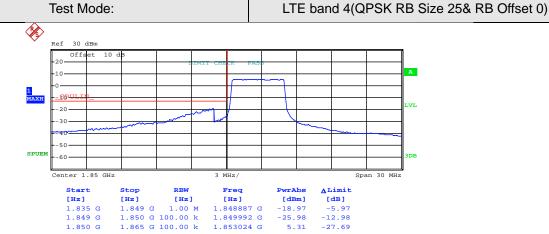
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Date: 27.NOV.2015 04:52:35

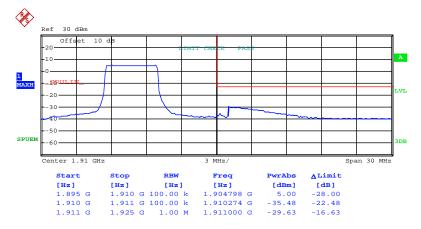
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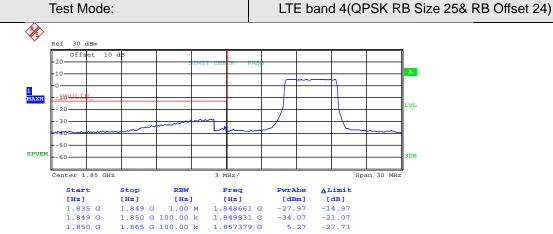
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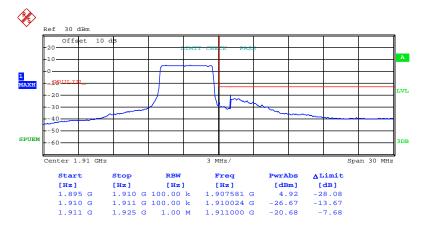
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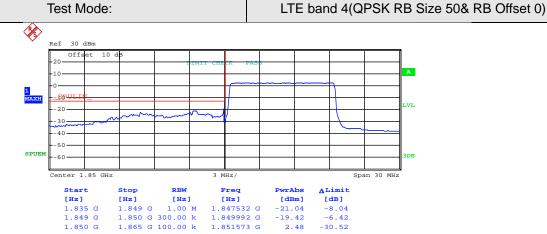
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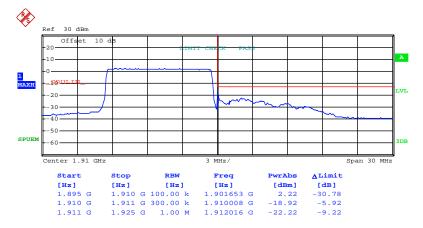
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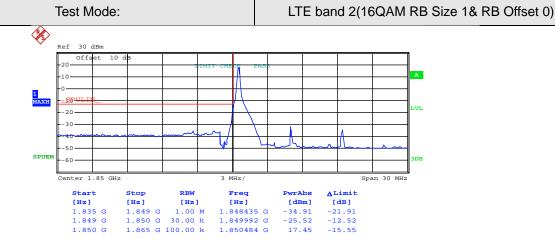
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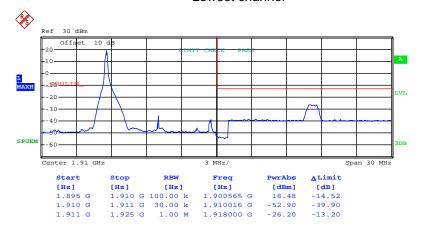
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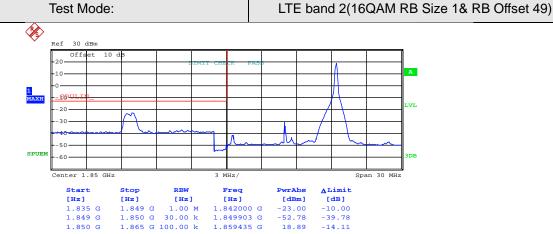
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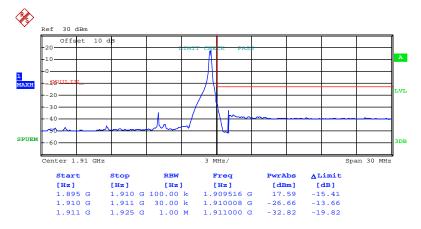
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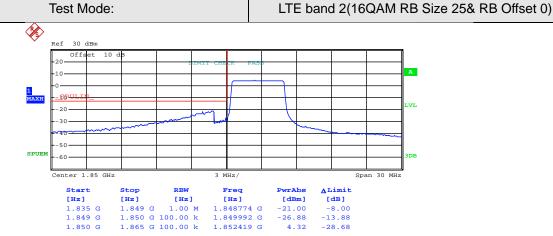
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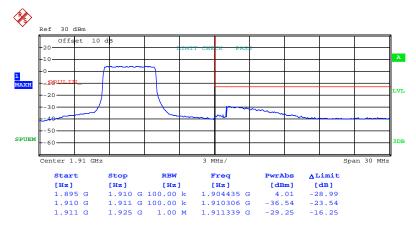
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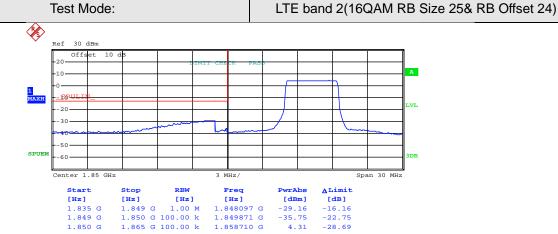
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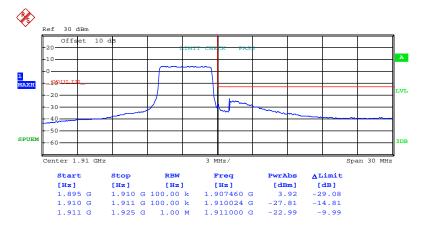
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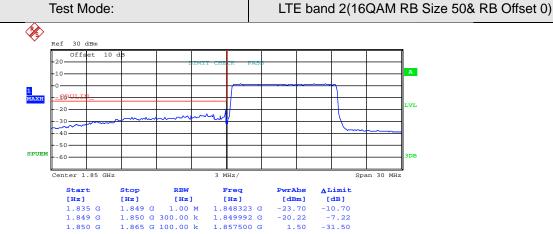


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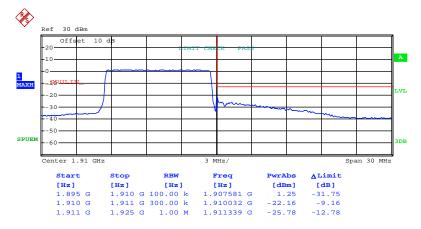
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Date: 27.NOV.2015 04:49:01

Lowest channel

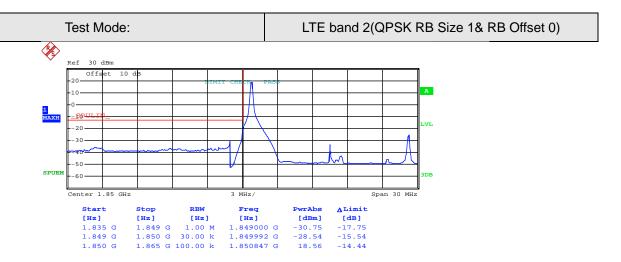


Date: 27.NOV.2015 04:55:28

Highest channel

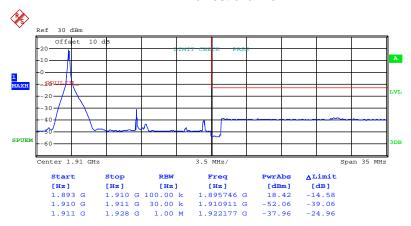


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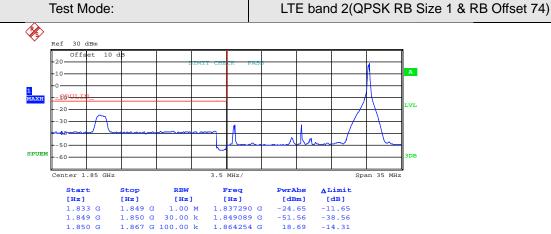
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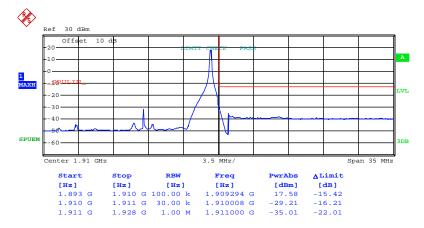
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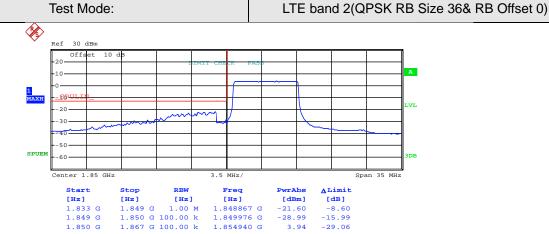
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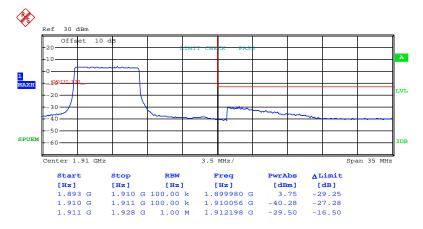
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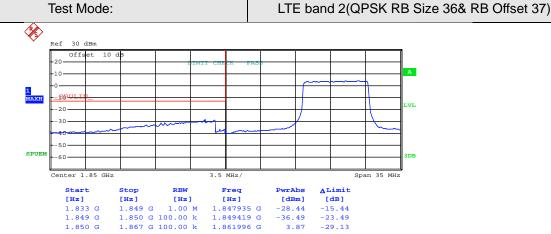
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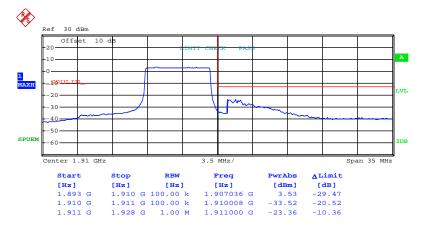
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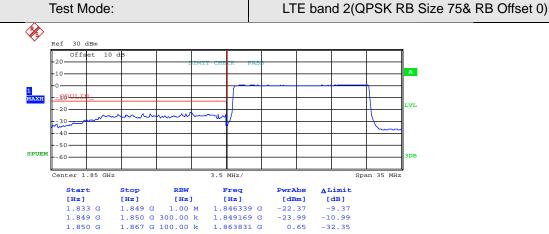
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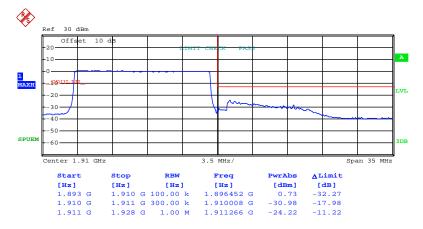
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Date: 27.NOV.2015 04:08:21

Lowest channel

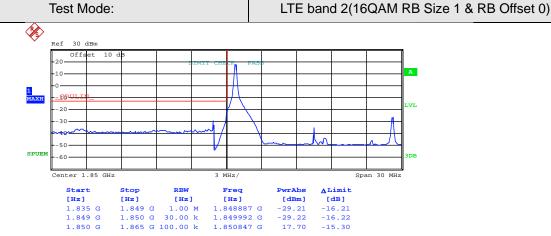


Date: 27.NOV.2015 04:12:06

Highest channel

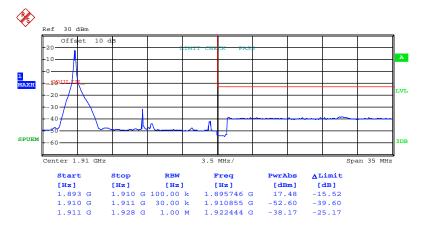
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Date: 27.NOV.2015 04:58:04

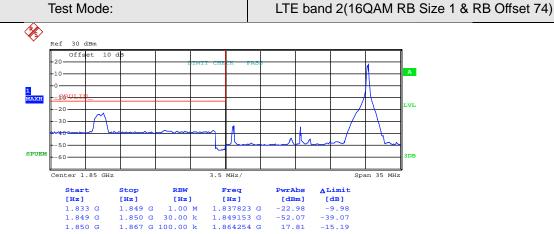
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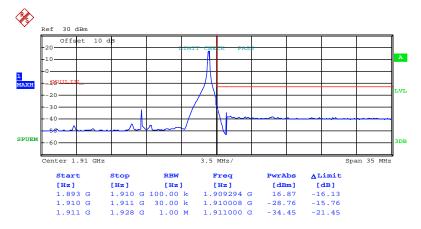
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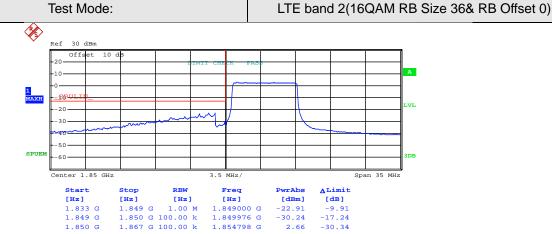
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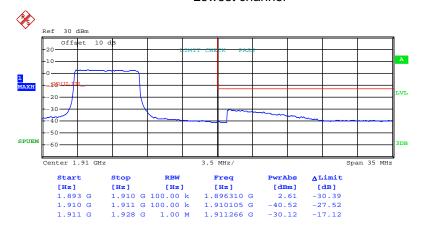
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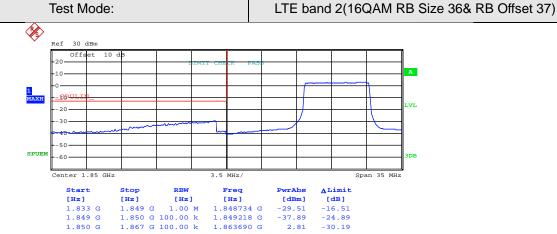
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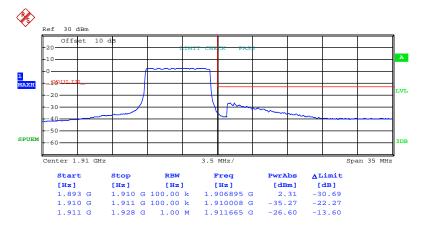
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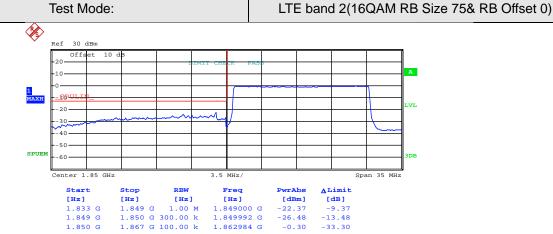
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Date: 27.NOV.2015 04:11:24

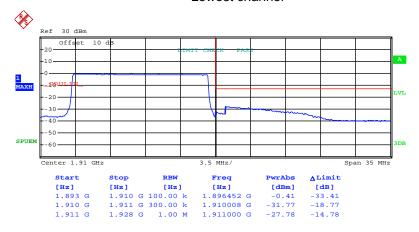
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Date: 27.NOV.2015 04:08:32

Lowest channel



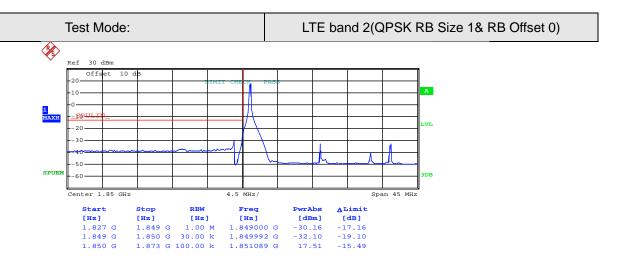
Date: 27.NOV.2015 04:12:19

Highest channel

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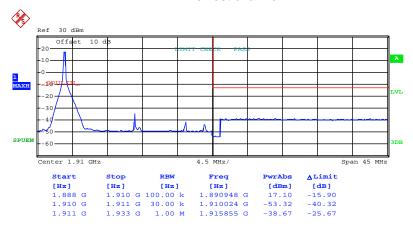


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Date: 27.NOV.2015 04:14:13

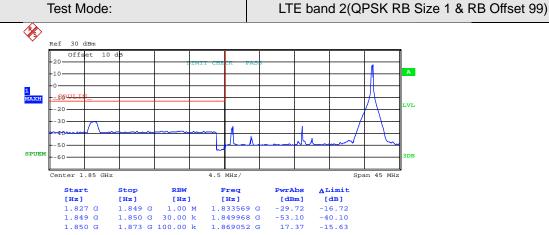
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Date: 27.NOV.2015 04:18:16

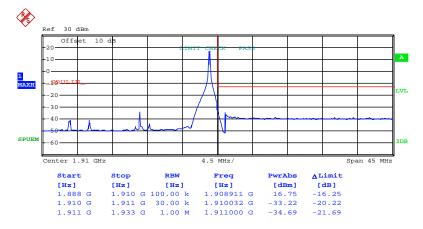
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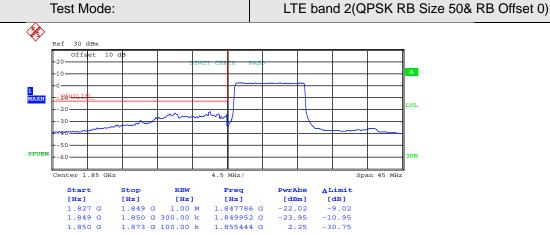
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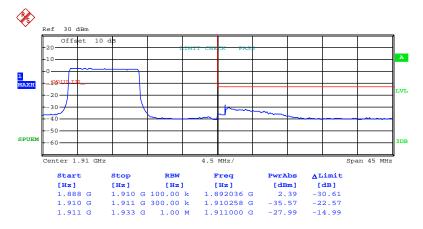
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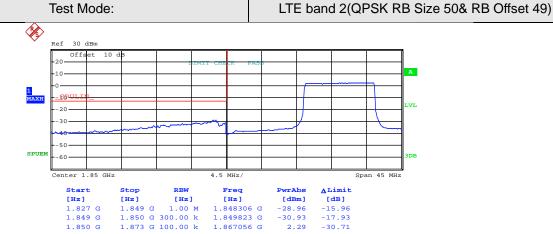
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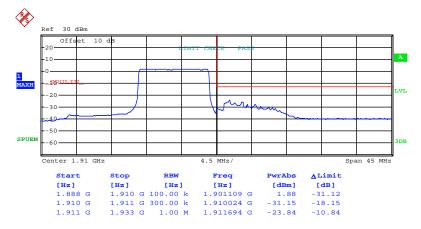
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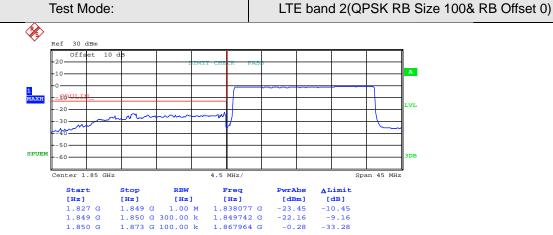
Date: 27.NOV.2015 04:17:08

Lowest channel



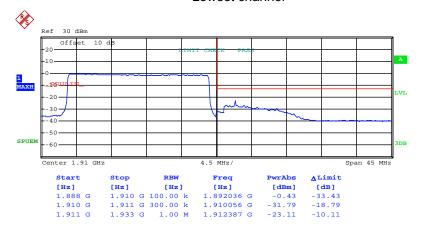
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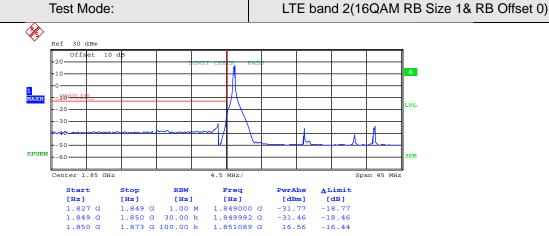
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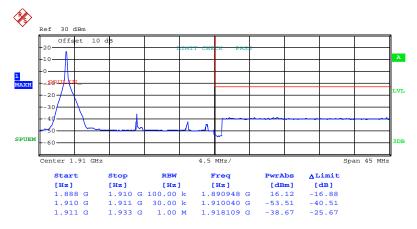
Date: 27.NOV.2015 04:20:06





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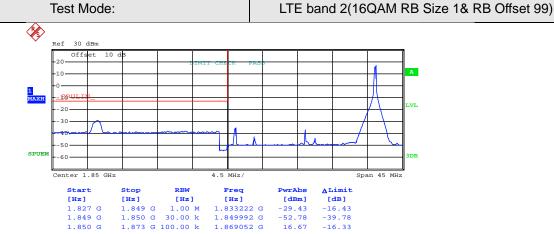
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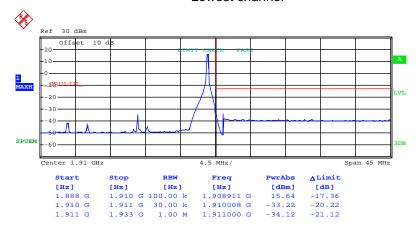
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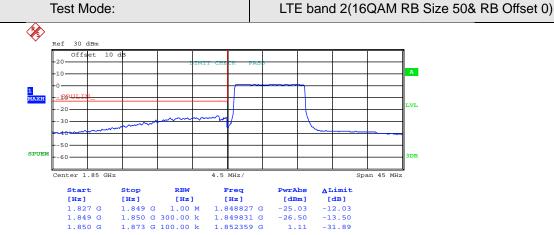
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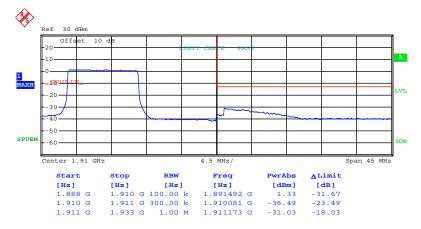
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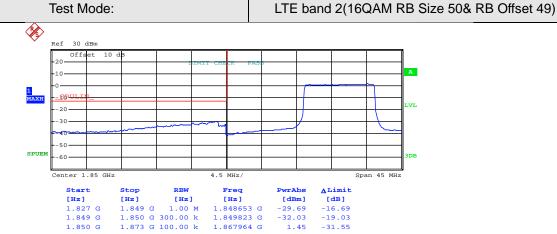


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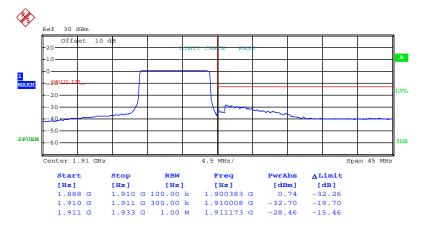
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Date: 27.NOV.2015 04:16:55

Lowest channel

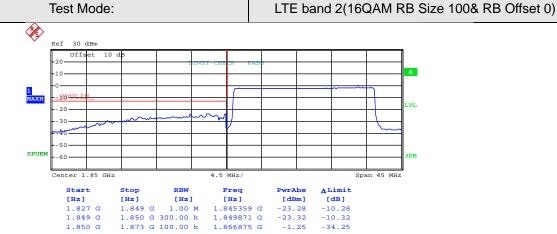


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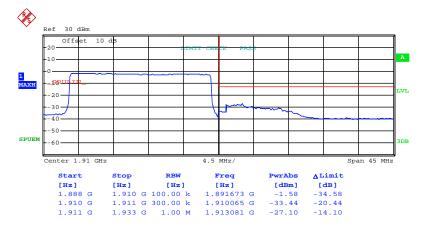
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Date: 27.NOV.2015 04:17:33

Lowest channel

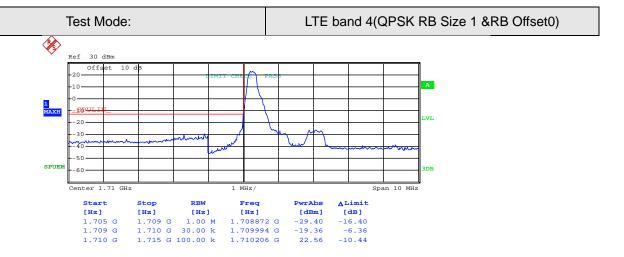


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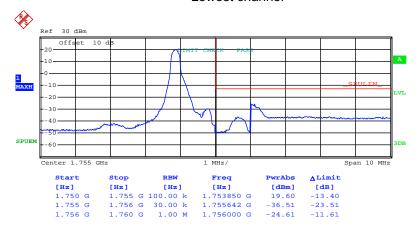
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1.4MHz:



Date: 27.NOV.2015 02:19:46

Lowest channel

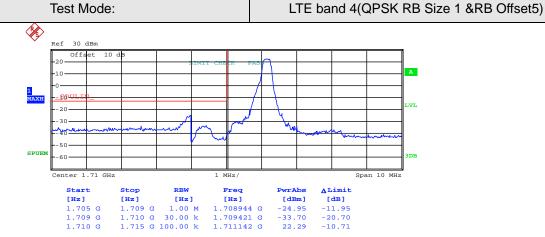


Date: 27.NOV.2015 02:24:32

Highest channel

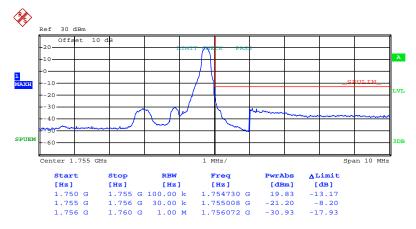
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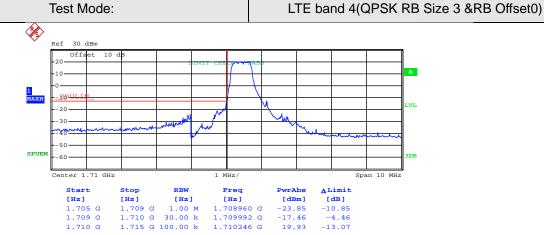
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Lowest channel



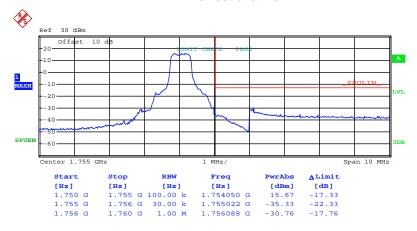
Date: 27.NOV.2015 02:25:19





Date: 27.NOV.2015 02:21:22

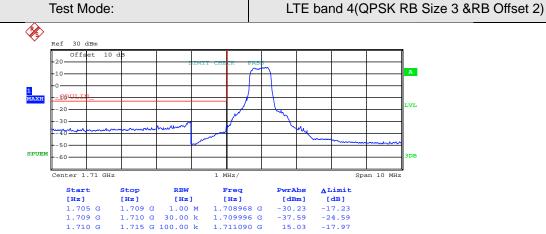
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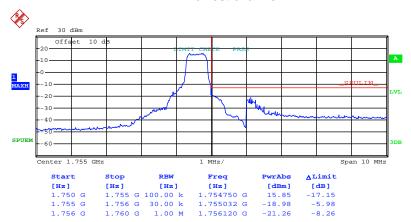
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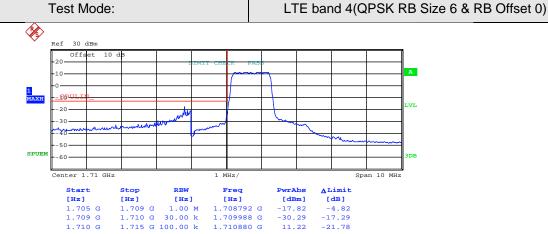
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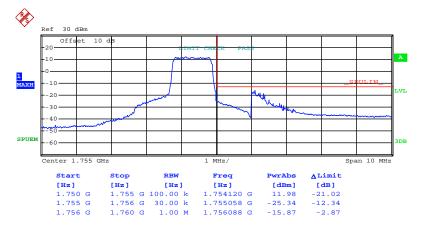
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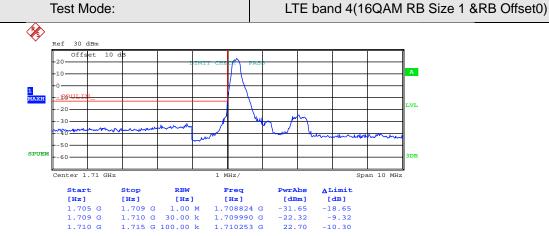
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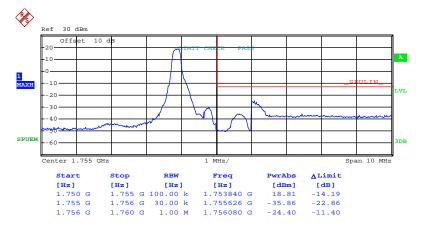
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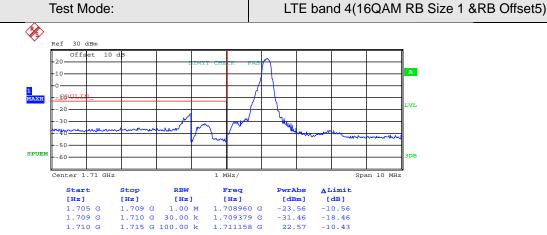
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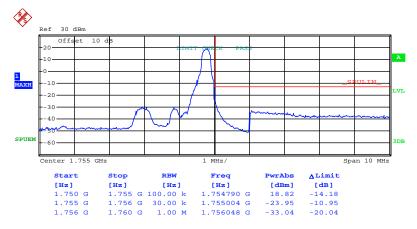
Highest channel





Date: 27.NOV.2015 02:20:50

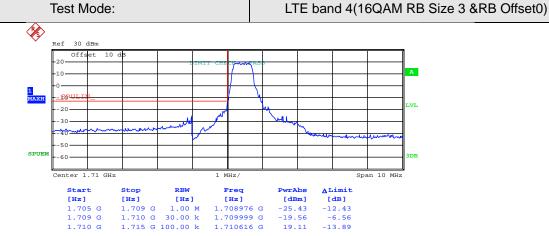
Lowest channel



Date: 27.NOV.2015 02:25:00

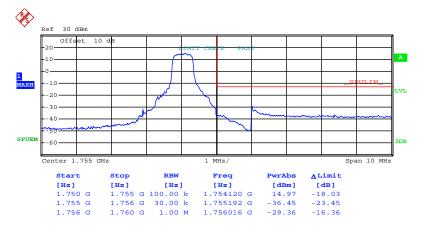
Highest channel





Date: 27.NOV.2015 02:21:36

Lowest channel

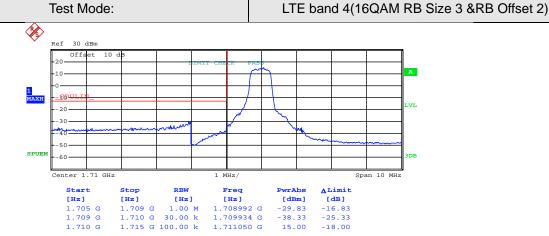


Date: 27.NOV.2015 02:26:00

Highest channel

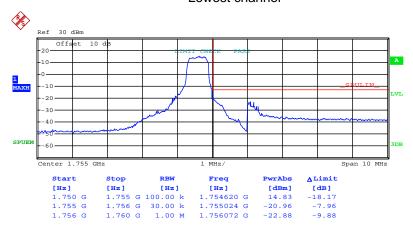
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Date: 27.NOV.2015 02:22:16

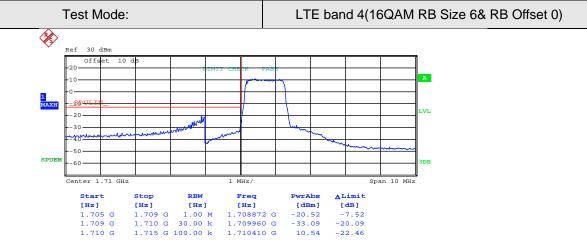
Lowest channel



Date: 27.NOV.2015 02:26:14

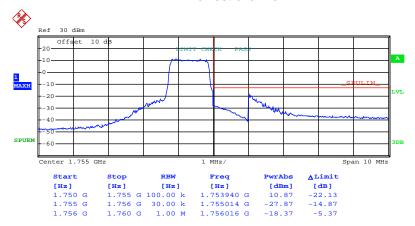
Highest channel





Date: 27.NOV.2015 02:22:59

Lowest channel

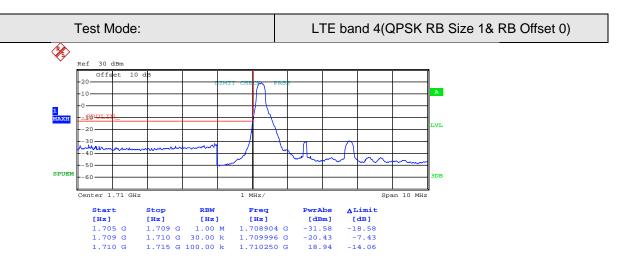


Date: 27.NOV.2015 01:34:58

Highest channel

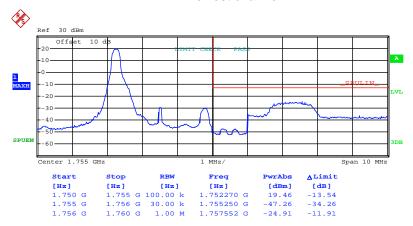


3MHz:



Date: 27.NOV.2015 01:36:03

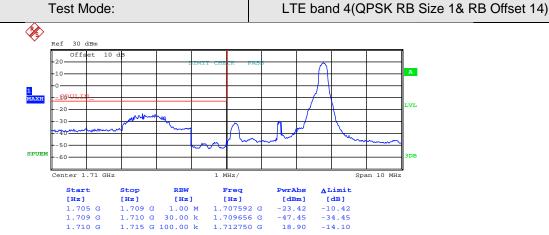
Lowest channel



Date: 27.NOV.2015 01:39:49

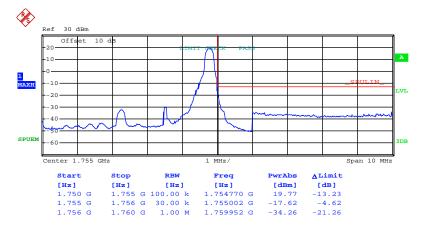
Highest channel





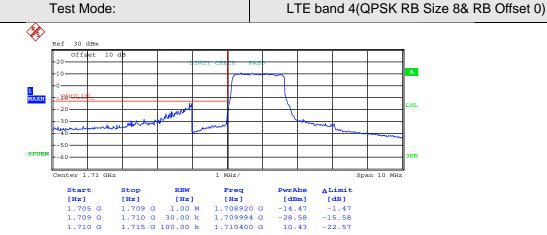
Date: 27.NOV.2015 01:36:46

Lowest channel



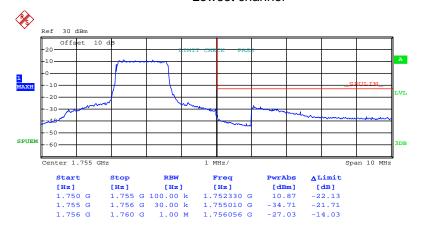
Date: 27.NOV.2015 01:40:33





Date: 27.NOV.2015 01:37:20

Lowest channel

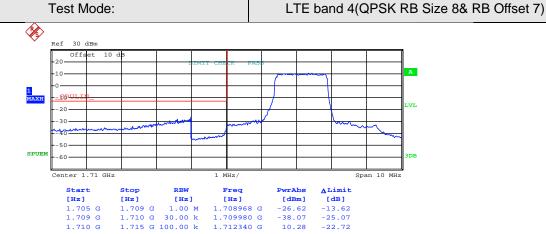


Date: 27.NOV.2015 01:40:51

Highest channel

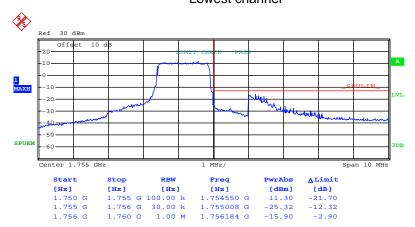
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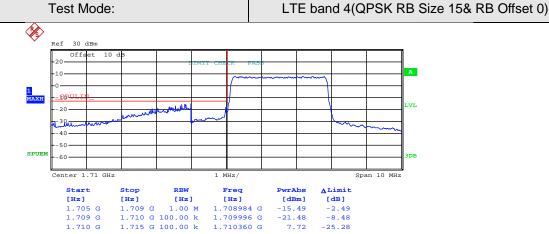
Date: 27.NOV.2015 01:38:15

Lowest channel



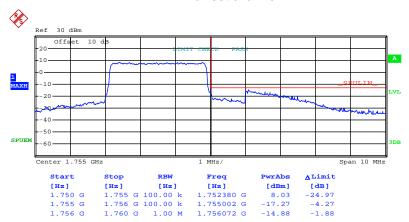
Date: 27.NOV.2015 01:41:31





Date: 27.NOV.2015 01:38:49

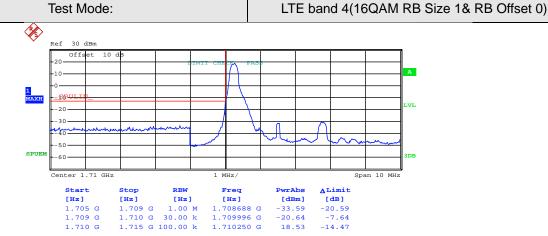
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Date: 27.NOV.2015 01:41:54

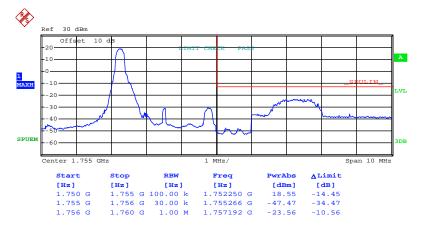
Highest channel





Date: 27.NOV.2015 01:36:18

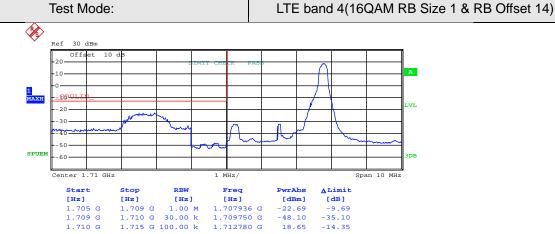
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Date: 27.NOV.2015 01:40:02

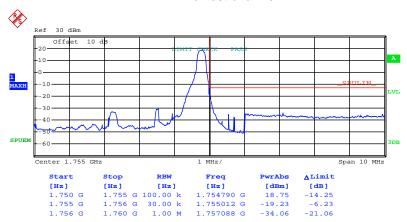
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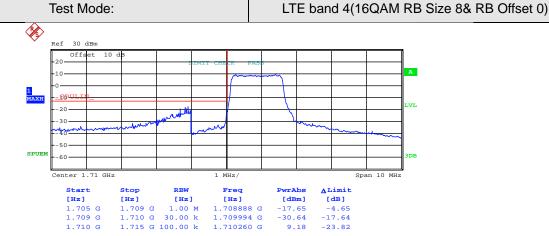
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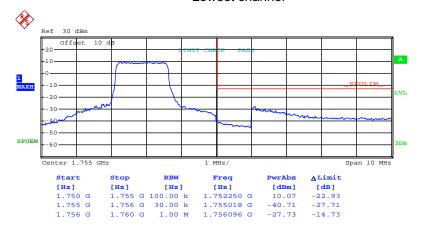
Highest channel





Date: 27.NOV.2015 01:37:41

Lowest channel

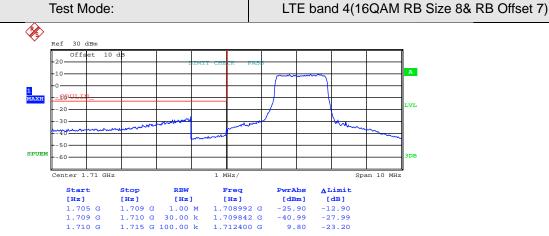


Date: 27.NOV.2015 01:41:05

Highest channel

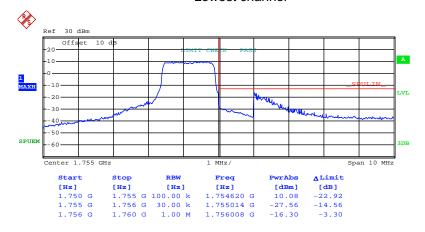
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Date: 27.NOV.2015 01:37:56

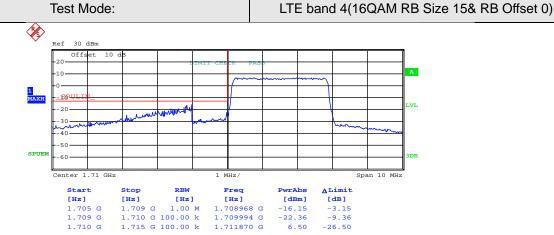
Lowest channel



Date: 27.NOV.2015 01:41:17

Highest channel





Date: 27.NOV.2015 01:39:03

Lowest channel

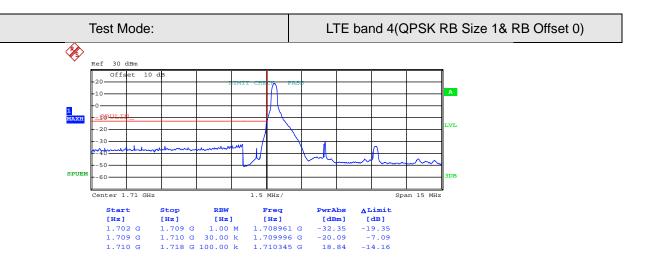


Date: 27.NOV.2015 01:42:08

Highest channel

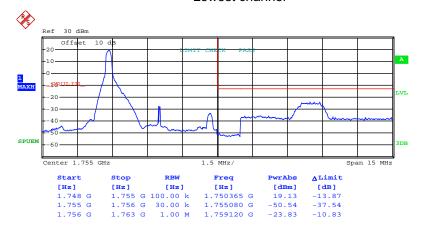


5MHz:



Date: 27.NOV.2015 01:43:57

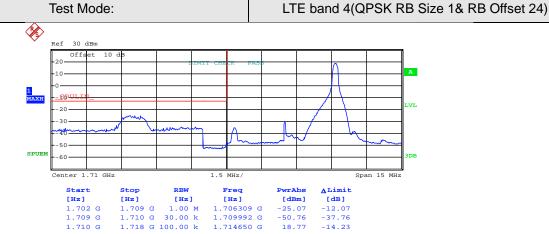
Lowest channel



Date: 27.NOV.2015 01:46:55

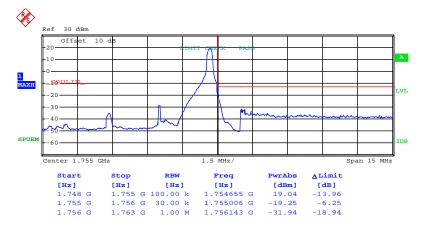
Highest channel





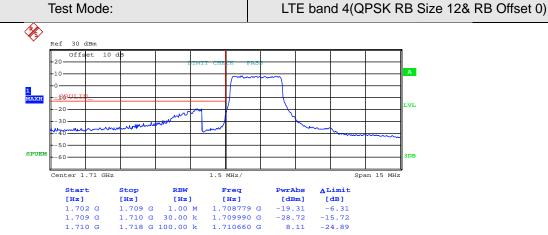
Date: 27.NOV.2015 01:44:41

Lowest channel



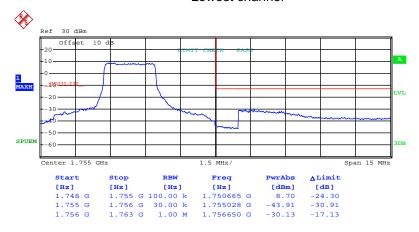
Date: 27.NOV.2015 01:47:36





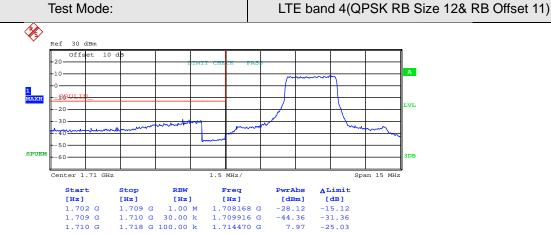
Date: 27.NOV.2015 01:45:01

Lowest channel



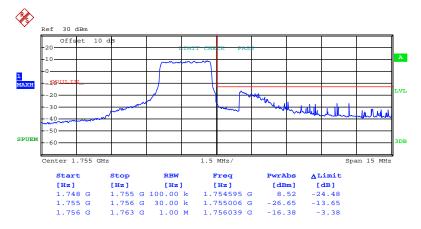
Date: 27.NOV.2015 01:48:03





Date: 27.NOV.2015 01:45:39

Lowest channel

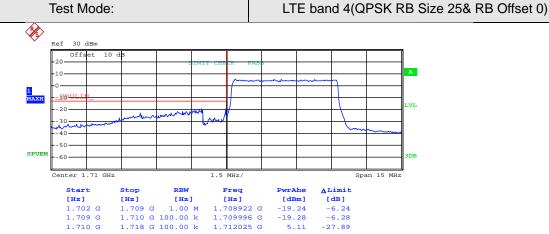


Date: 27.NOV.2015 01:48:52

Highest channel

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Date: 27.NOV.2015 01:46:01

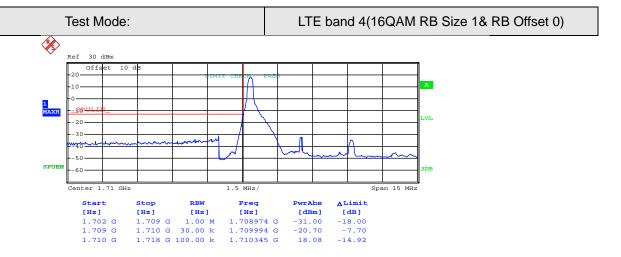
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Date: 27.NOV.2015 01:49:20

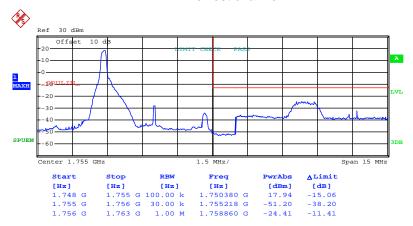
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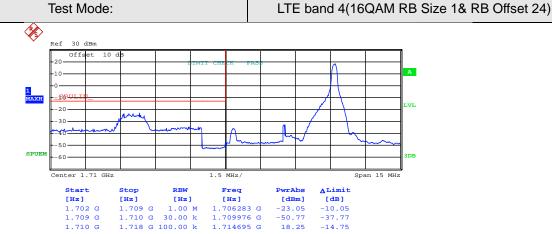
Lowest channel



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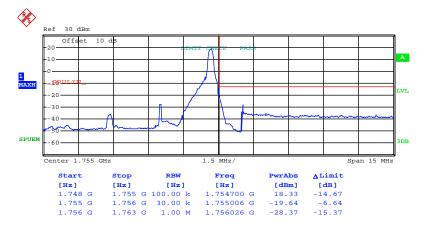
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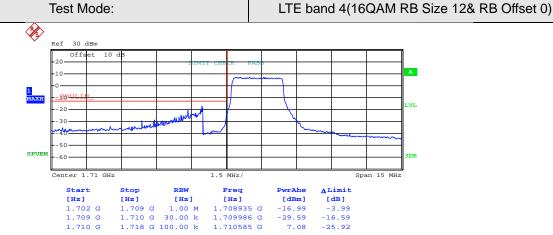
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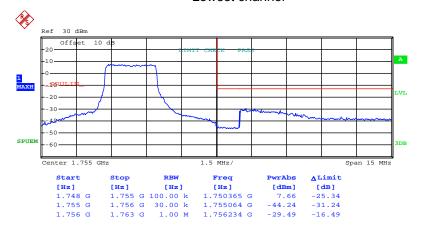
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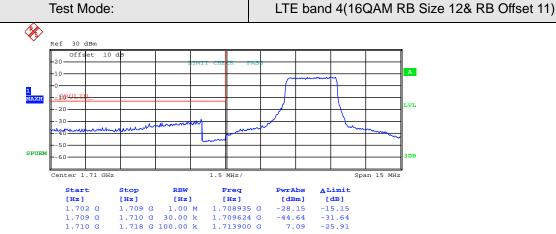
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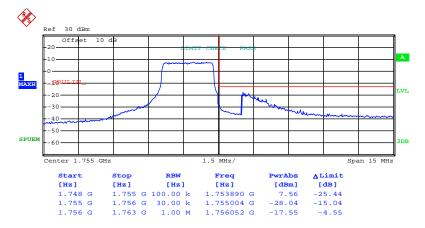
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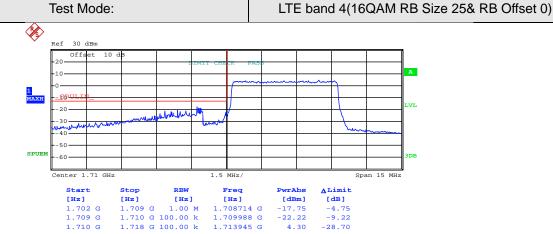
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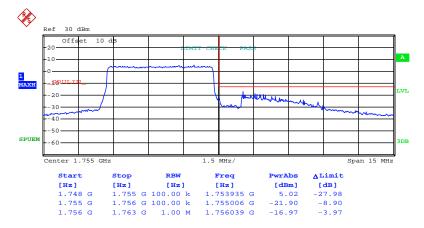
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Date: 27.NOV.2015 01:46:14

Lowest channel



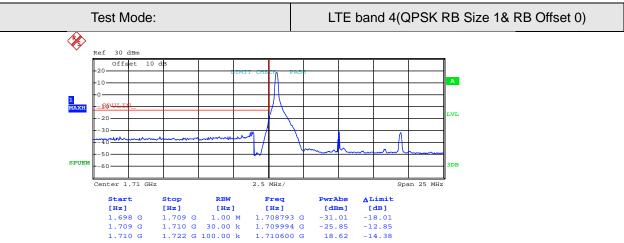
Date: 27.NOV.2015 01:49:33

Highest channel

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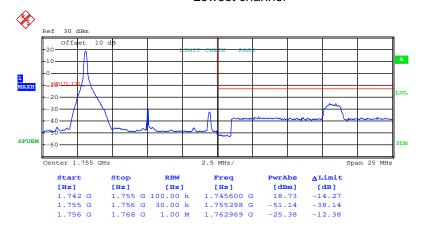


10MHz:



Date: 27.NOV.2015 01:54:26

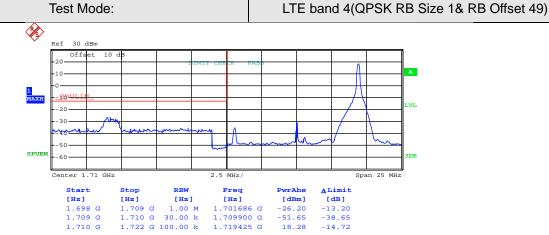
Lowest channel



Date: 27.NOV.2015 01:58:21

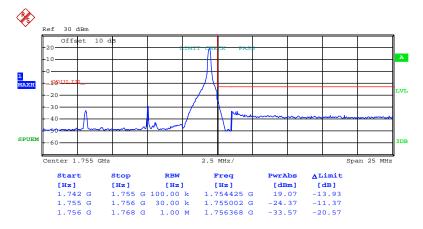
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Date: 27.NOV.2015 01:55:13

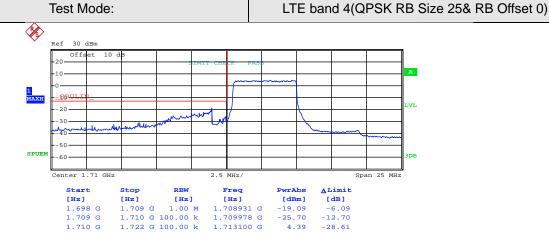
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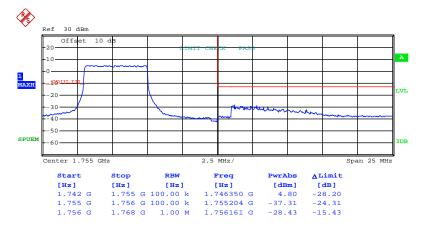
Highest channel





Date: 27.NOV.2015 01:55:54

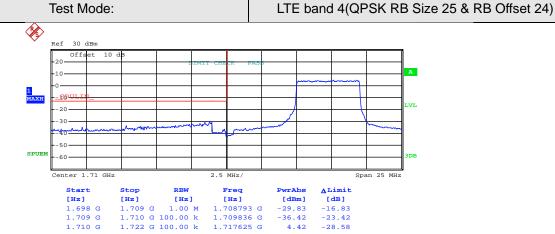
Lowest channel



Date: 27.NOV.2015 02:00:08

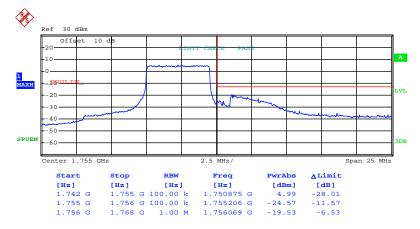
Highest channel





Date: 27.NOV.2015 01:56:40

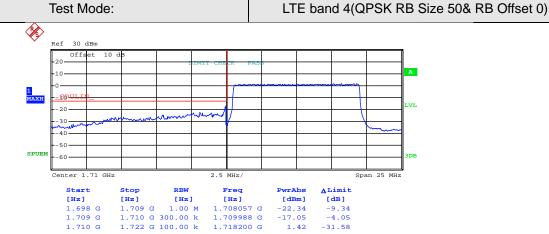
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Date: 27.NOV.2015 02:03:03

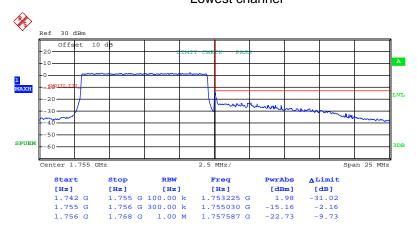
Highest channel





Date: 27.NOV.2015 01:57:03

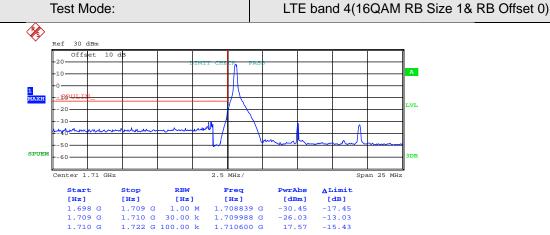
Lowest channel



Date: 27.NOV.2015 02:03:44

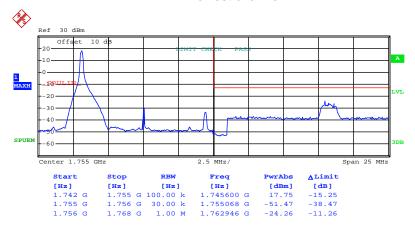
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Date: 27.NOV.2015 01:54:46

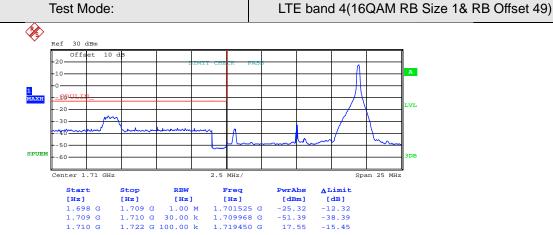
Lowest channel



Date: 27.NOV.2015 01:58:34

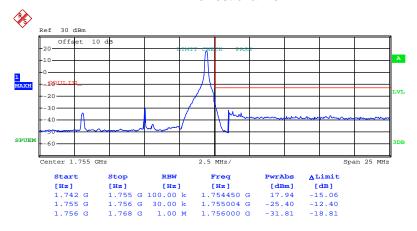
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Date: 27.NOV.2015 01:55:01

Lowest channel

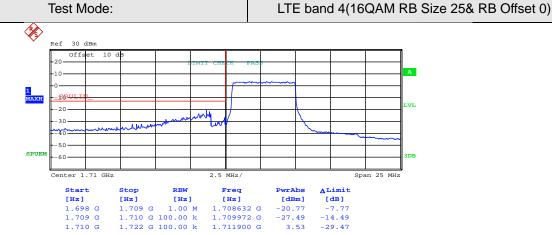


Date: 27.NOV.2015 01:58:49

Highest channel

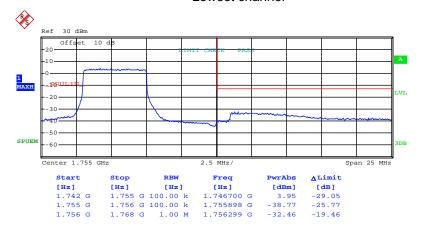
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Date: 27.NOV.2015 01:56:07

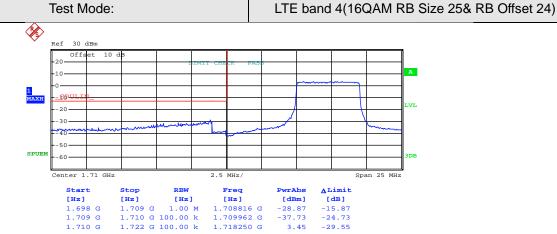
Lowest channel



Date: 27.NOV.2015 02:00:23

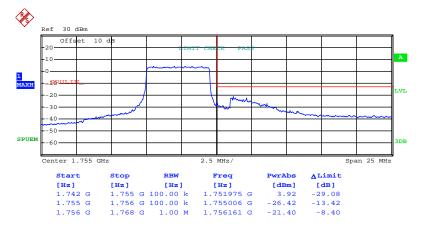
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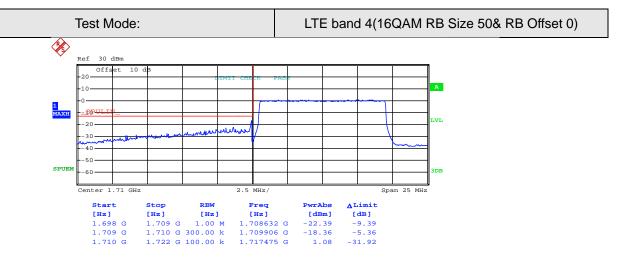
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Date: 27.NOV.2015 02:02:44

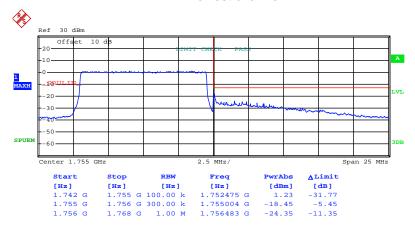
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Date: 27.NOV.2015 01:57:15

Lowest channel

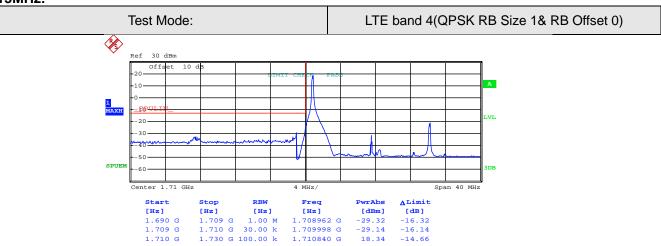


Date: 27.NOV.2015 02:04:01

Highest channel

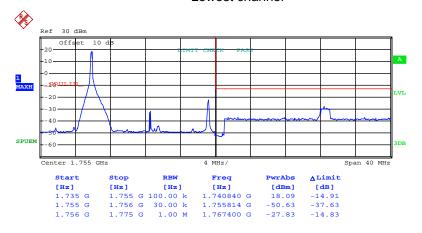


15MHz:



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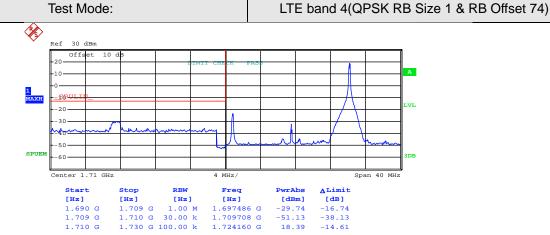
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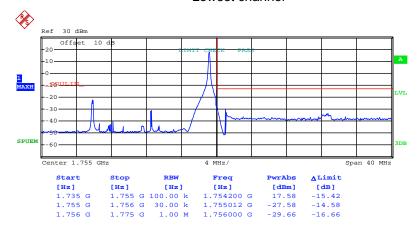
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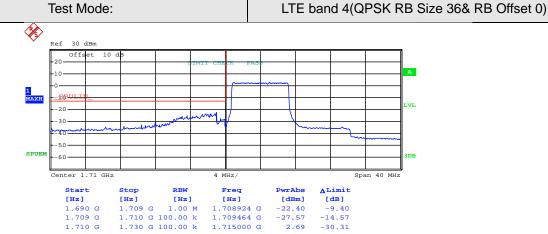
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Date: 27.NOV.2015 02:10:42

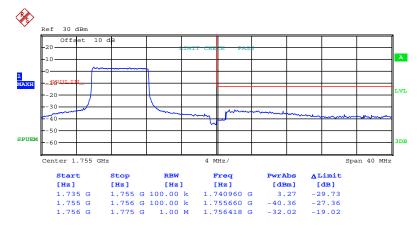
Highest channel





Date: 27.NOV.2015 02:07:13

Lowest channel

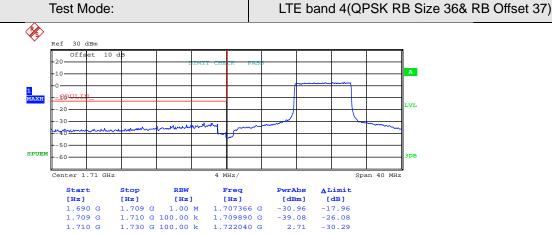


Date: 27.NOV.2015 02:11:35

Highest channel

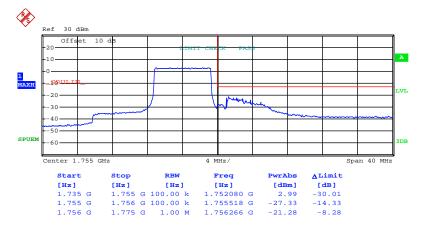
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Date: 27.NOV.2015 02:08:02

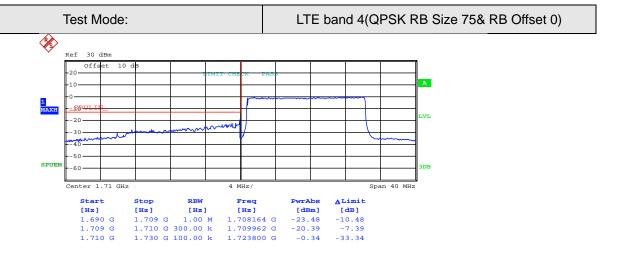
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Date: 27.NOV.2015 02:12:36

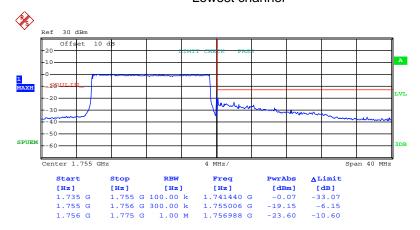
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Date: 27.NOV.2015 02:08:30

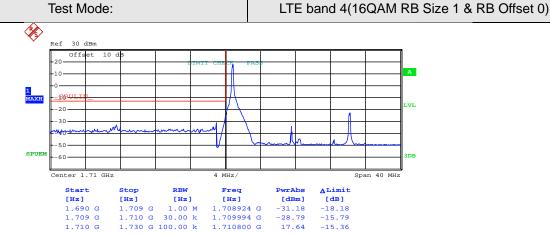
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Date: 27.NOV.2015 02:13:02

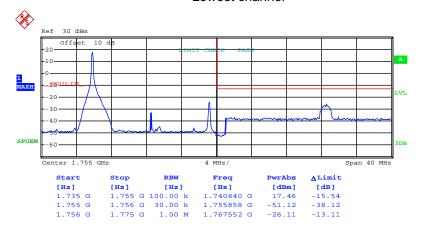
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Date: 27.NOV.2015 02:06:11

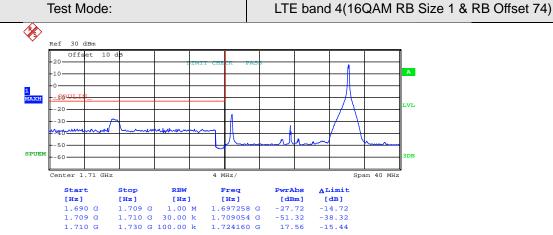
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Date: 27.NOV.2015 02:10:01

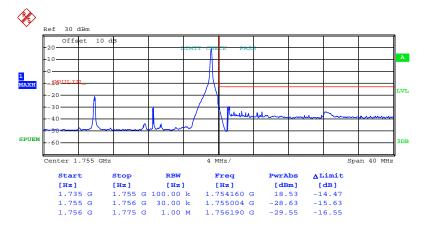
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Date: 27.NOV.2015 02:06:27

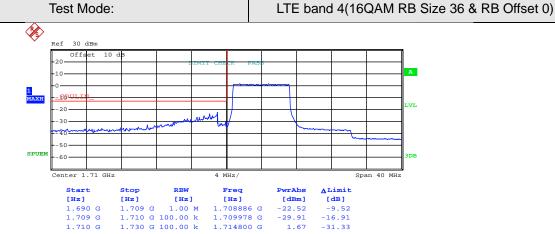
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Date: 27.NOV.2015 02:10:59

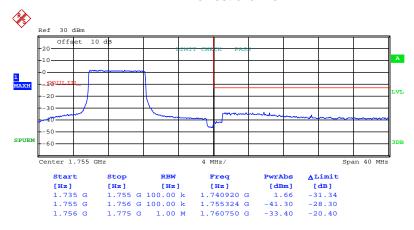
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Date: 27.NOV.2015 02:07:28

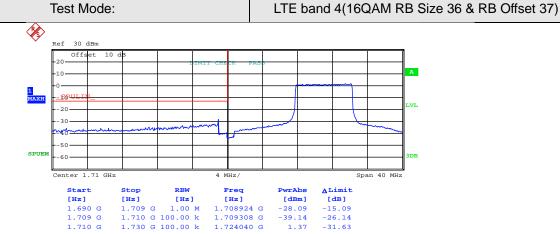
Lowest channel



Date: 27.NOV.2015 02:11:53

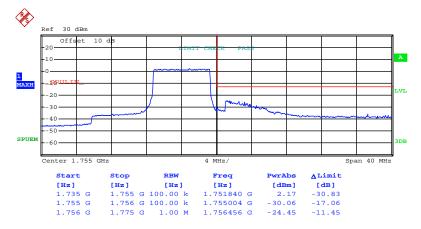
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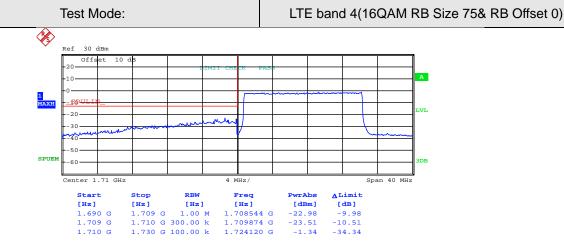
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Date: 27.NOV.2015 02:12:14

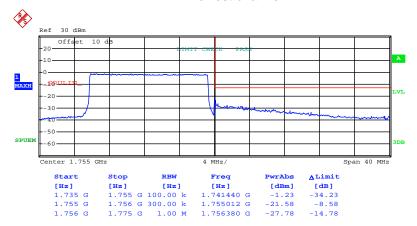
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Date: 27.NOV.2015 02:08:46

Lowest channel

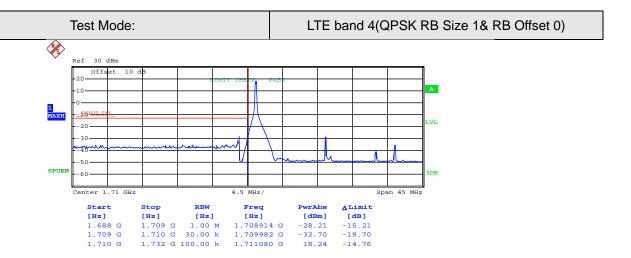


Date: 27.NOV.2015 02:13:16

Highest channel

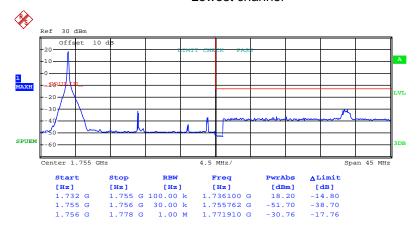


20MHz:



Date: 27.NOV.2015 02:15:24

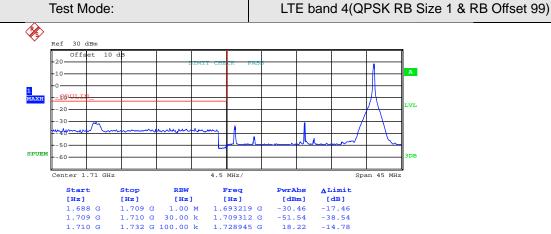
Lowest channel



Date: 27.NOV.2015 02:28:04

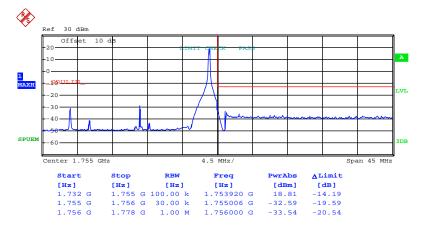
Highest channel





Date: 27.NOV.2015 02:16:28

Lowest channel

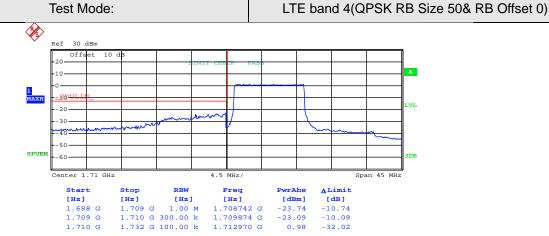


Date: 27.NOV.2015 02:28:49

Highest channel

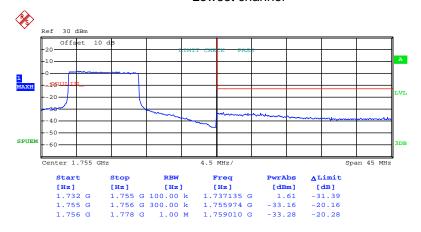
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Date: 27.NOV.2015 02:17:13

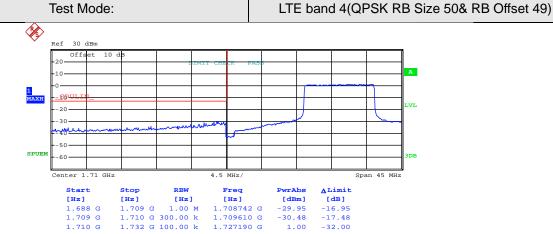
Lowest channel



Date: 27.NOV.2015 02:29:23

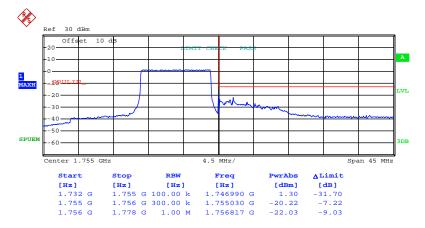
Highest channel





Date: 27.NOV.2015 02:18:12

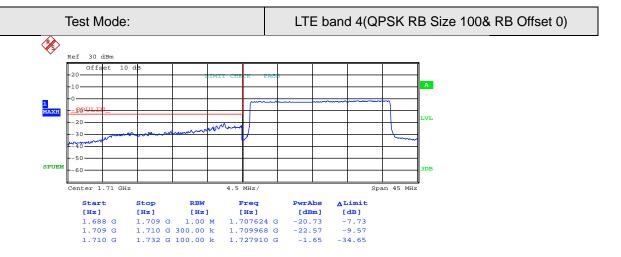
Lowest channel



Date: 27.NOV.2015 02:30:13

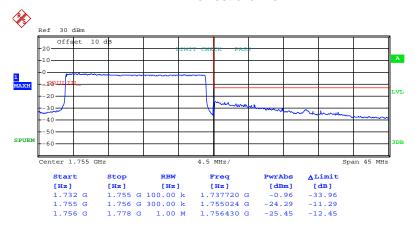
Highest channel





Date: 27.NOV.2015 02:18:36

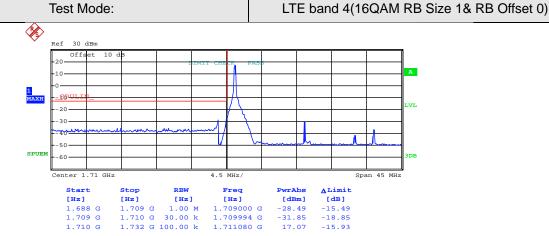
Lowest channel



Date: 27.NOV.2015 02:30:29

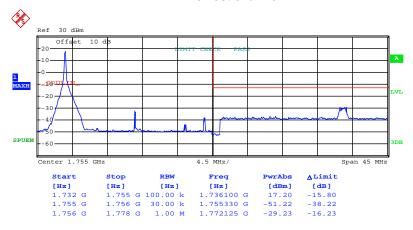
Highest channel





Date: 27.NOV.2015 02:15:42

Lowest channel

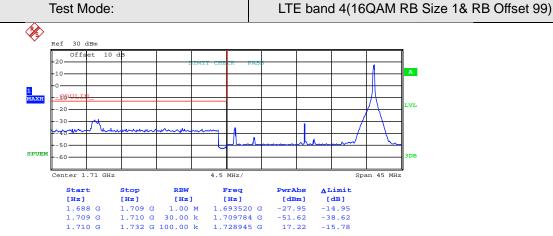


Date: 27.NOV.2015 02:28:21

Highest channel

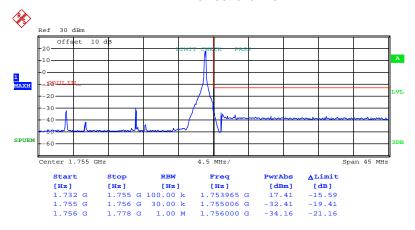
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Date: 27.NOV.2015 02:16:08

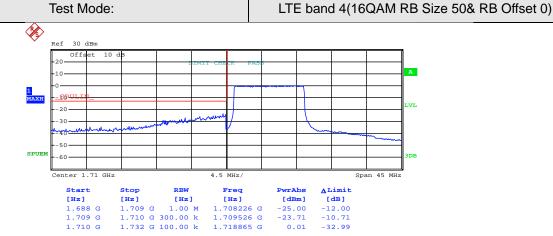
Lowest channel



Date: 27.NOV.2015 02:28:36

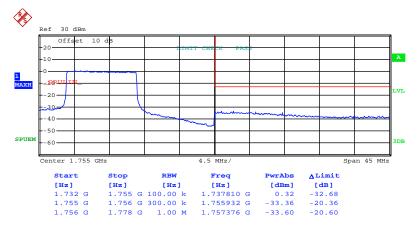
Highest channel





Date: 27.NOV.2015 02:17:29

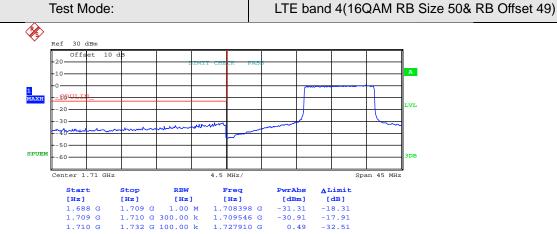
Lowest channel



Date: 27.NOV.2015 02:29:37

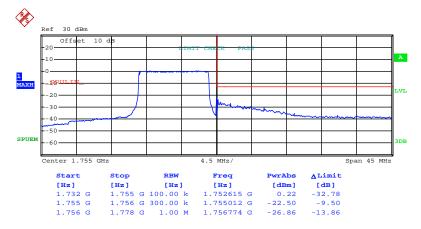
Highest channel





Date: 27.NOV.2015 02:17:49

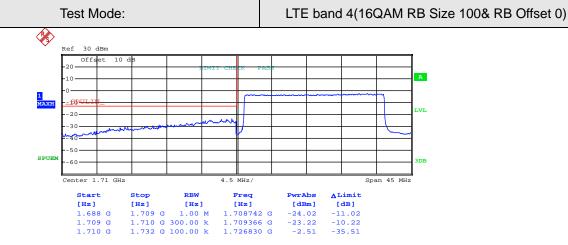
Lowest channel



Date: 27.NOV.2015 02:29:54

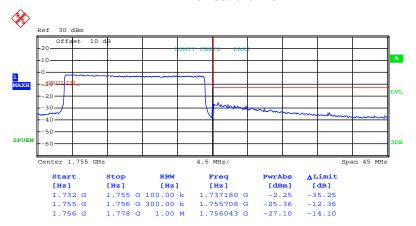
Highest channel





Date: 27.NOV.2015 02:18:52

Lowest channel



Date: 27.NOV.2015 02:30:55

Highest channel





6.10 ERP, EIRP Measurement

Test Requirement:	FCCpart 24.232 (c),part 27.50(d)
Test Method:	FCC part2.1046
Limit:	LTE Band 2: 2W EIRP LTE Band 4:1W EIRP
Test setup:	Below 1GHz Antenna Tower Search Antenna RF Test Receiver Antenna An
	Substituted method:
	Ground plane d: distance in meters d:3 meter I -4 meter S.G. Substituted Dipole or Horn Antenna Bi-Log Antenna or Horn Antenna





Test Procedure:	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.
	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.
	3. EIRP in frequency band 1850.7 –1909.3MHz and 1710.7-1754.3 MHz were measured using a substitution method. The EUT was replaced by horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows: EIRP = S.G. output (dBm) + Antenna Gain (dBi) – Cable Loss (dB)
	4. The worse case was relating to the conducted output power.
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)





LTE band 2 part

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result			
		1.	4MHz(RB s	size 1 & RB	offset 0)						
1850.70	18607	QPSK	1.4	Н	V	23.31					
1650.70	10007	QF3N	1.4	1.7	1.4		Н	23.04	33.00	Door	
1850.70	18607	16QAM	1.4	Н	V	23.71	33.00	Pass			
1650.70	10007	IOQAW	1.4		Н	22.25					
	1.4MHz(RB size 3 & RB offset 0)										
1850.70	18607	QPSK	1.4	Н	V	23.36					
1650.70	10007	QFSK	1.4		Н	21.15	33.00	Pass			
1950.70	18607	16QAM	1.4	Н	V	23.85	33.00	F 455			
1850.70	10007	TOQAW	1.4	П	Н	21.24					
		1.	4MHz(RB s	ize 6 & RB	offset 0)						
4050.70	40007	ODCK	4.4		V	23.39					
1850.70	18607	QPSK	1.4	H	Н	21.15	22.00	Door			
1050.70	10007	160014	4.4		V	23.32	33.00	Pass			
1850.70	18607	16QAM	1.4	Н	Н	21.58					

Middle channel

	wilddie Chaimei										
Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result			
	1.4MHz(RB size 1 & RB offset 0)										
1880.00	18900	QPSK	1.4	Н	V	24.60					
1000.00	16900	QF3K	1.4	П	Н	22.59	33.00	Pass			
1880.00	18900	16QAM	1.4	Н	V	24.33	33.00	Fa55			
1000.00	16900	IOQAW	1.4		Н	21.98					
	1.4MHz(RB size 3 & RB offset 0)										
1880.00	18900	QPSK	1.4	Н	V	24.46					
1000.00	16900	QFSK	1.4	П	Н	22.45	33.00	Pass			
1880.00	18900	16QAM	1.4	Н	V	24.57	33.00	F 455			
1000.00	10900	TOQAW	1.4	11	Н	21.92					
		1.4	4MHz(RB	size 6 & RE	3 offset 0)						
1880.00	18900	QPSK	1.40	Н	V	24.33					
1000.00	10900	QFSK	1.40	11	Н	22.25	33.00	Pass			
1880.00	18900	16QAM	1.40	Н	V	23.36	33.00	rass			
1000.00	10900	TOQAM	1.40	11	Н	22.04					





Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result			
			1.4MHz(RE	3 size 1 & F	RB offset 0)						
1909.30	19193	QPSK	1.4	Н	V	23.36					
1909.30	19193	QFSK	1.4		Н	22.15	33.00	Door			
1909.30	19193	16QAM	1.4	Н	V	23.34	33.00	Pass			
1909.50	19193	IOQAW	1.4	П	Н	22.05					
	1.4MHz(RB size 3 & RB offset 0)										
1000 20	10102	ODSK	1.4	Н	V	23.36	22.00				
1909.30	19193	QPSK	1.4	П	Н	23.41		Door			
1000 20	10102	160 AM	1.4	Н	V	23.38	33.00	Pass			
1909.30	19193	16QAM	1.4	П	Н	22.15					
			1.4MHz(RE	3 size 6 & F	RB offset 0)						
4000 20	40400	ODCK	4.4	11	V	23.95					
1909.30	19193	QPSK	1.4	Н	Н	23.31	22.00	Doos			
1000 20	10102	160 AM	1.4 H	V	24.05	33.00	Pass				
1909.30	19193	16QAM	1.4	П	Н	23.21					

Lowest channel

	Lowest Chainlei										
Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result			
	20MHz(RB size 1 & RB offset 0)										
1860.00	18700	QPSK	20	Н	V	23.24					
1000.00	18700	QF3K	20	П	Н	22.04	33.00	Pass			
1860.00	18700	16QAM	20	Н	V	23.31	33.00	Fa55			
1000.00	18700	TOQAM	20	П	Н	22.28					
		2	0MHz(RB si	ze 50 & R	B offset 0)						
1960.00	10700	QPSK	20	Н	V	23.14					
1860.00	18700	QPSK	20	П	Н	21.63	33.00	Pass			
1860.00	18700	16QAM	20	Н	V	22.77	33.00	Fa55			
1860.00	10700	TOQAW	20	П	Н	21.03					
		20MHz(RB size 100	& RB offs	et 0)						
1860.00	18700	QPSK	20	Н	V	22.13					
1000.00	10700	QF3N	20	П	Н	20.54	33.00	Pass			
1860.00	18700	16QAM	20	Н	٧	22.37	33.00	F a 3 3			
1000.00	10700	IOQAW	20	11	Н	20.11					





Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result		
		2	20MHz(RB s	ize 1 & RE	offset 0)					
1880.00	18900	QPSK	20	Н	V	23.80				
1880.00	10900	QF5K	20	11	Н	21.97	33.00	Pass		
1880.00	18900	16QAM	20	Н	V	24.08	33.00	F d 5 5		
1880.00	10900	TOQAW	20	11	Н	21.73				
	20MHz(RB size 50 & RB offset 0)									
1880.00	18900	QPSK	20	Н	V	23.56				
1880.00	10900	QF5K	20	11	Н	21.30	33.00	Pass		
1880.00	18900	16QAM	20	Н	V	23.80	33.00	F d 5 5		
1880.00	10900	TOQAW	20	11	Н	21.61				
		20	MHz(RB siz	ze 100 & R	B offset 0)					
1990.00	19000	QPSK	20	Н	V	21.91				
1880.00	18900	QF3K	20	П	Н	20.35	33.00	Pass		
1880.00	18900	16QAM	20	Н	V	22.78	33.00	F a 5 5		
1000.00	10900	IOQAM	20	11	Н	19.94				

Highest channel

	Hignest channel										
Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result			
	20MHz(RB size 1 & RB offset 0)										
1900.00	19100	QPSK	20	Н	V	23.47					
1900.00	19100	QFSK	20	П	Н	21.34	33.00	Pass			
1900.00	19100	16QAM	20	20 11	V	24.26	33.00	F 455			
1900.00	19100	TOQAM	20 H		Н	21.25					
	20MHz(RB size 50 & RB offset 0)										
1000.00	10100	ODCK	, , , , , , , , , , , , , , , , , , ,	Н	V	23.04					
1900.00	19100	QPSK	20	П	Н	21.45	33.00	Pass			
1900.00	19100	16QAM	20	Н	V	22.38	33.00	F 455			
1900.00	19100	TOQAM	20	11	Н	21.74					
		2	0MHz(RB s	ize 100 8	RB offset ())					
1000.00	10100	ODCK	20	Н	V	22.36					
1900.00	19100	QPSK	20	П	Н	20.74	22.00	Door			
1900.00	.00 19100 16QAM		20	Н	V	22.62	33.00	Pass			
1900.00	19100	TOQAW	20	11	Н	20.24					





LTE band 4 part

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result			
		•	I.4MHz(RE	3 size 1 &	RB offset 0)						
1710.70	19957	QPSK	1.4	Н	V	21.03					
1710.70	19937	QFSK	1.4	Н	17.14	20.00	Pass				
1710.70	19957	16QAM	1.4	Н	V	21.36	30.00	Fa55			
1710.70	19957	TOQAM	1.4	11	Н	17.05					
	1.4MHz(RB size 3 & RB offset 0)										
4740.70	10057	ODCK	4.4	- 11	V	21.16		Pass			
1710.70	19957	QPSK	1.4	Н	Н	17.75	20.00				
1710.70	100F7	160AM	4.4	Н	V	21.36	30.00	Pass			
1710.70	19957	16QAM	1.4		Н	17.63		1			
		•	1.4MHz(RE	3 size 6 &	RB offset 0)						
1710 70	10057	ODSK	4.4	Н	V	21.45					
1710.70	19957	QPSK	1.4		Н	17.42	20.00	Pass			
1710 70	10057	160 A M	1.4	4.4	V	21.25	30.00				
1710.70	19957	16QAM	1.4	Н	Н	17.29					

Middle channel

_	E III BUY EUT A.											
Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result				
	1.4MHz(RB size 1 & RB offset 0)											
1732.50	20175	QPSK	1.4	Н	V	20.90						
1732.50	20175	QF3K	1.4	П	Н	16.52	30.00	Pass				
1732.50	20175	16QAM	1.4	Н	V	20.78	30.00	Fa55				
1732.50	20175	IOQAW	1.4		Н	16.27						
	1.4MHz(RB size 3 & RB offset 0)											
1732.50	20175	QPSK	1.4	Н	V	21.02						
1732.30	20173	QFSK	1.4	11	Н	16.93	30.00	Pass				
1732.50	20175	16QAM	1.4	1.4 H	V	21.07	30.00	rass				
1732.30	20173	TOQAW	1.4	11	Н	16.65						
		1	.4MHz(RE	3 size 6 &	RB offset 0)							
1732.50	20175	QPSK	1.4	Н	V	21.02						
1732.50	20173	QF3N	1.4	П	Н	16.71	30.00	Pass				
1732.50	20175	16QAM	1.4	Н	V	20.92	30.00	газэ				
1732.30	20173	TOQAW	1.4	11	Н	16.40						





Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result			
		•	1.4MHz(RE	size 1 & l	RB offset 0)						
1754.30	20393	QPSK	1.4 H V 21.17	21.17							
1754.50	20393	QFSK	1.4	П	Н	17.32	30.00	Pass			
1754 20	20393	16QAM	1.4	Н	V	21.14	30.00	Fa55			
1754.30	20393	IOQAW	1.4	П	Н	17.52					
	1.4MHz(RB size 3 & RB offset 0)										
1754.30	20202	QPSK	1.4	н	V	21.45					
1754.30	20393	QPSK	1.4		Н	17.71	30.00	Pass			
1754.30	20393	16QAM	1.4	Н	V	21.33	30.00	Fa55			
1754.50	20393	IOQAW	1.4	П	Н	17.05					
		•	1.4MHz(RE	3 size 6 & F	RB offset 0)						
1754 20	20202	ODSK	1.4	Ш	V	21.52					
1754.30	20393	QPSK	1.4	Н	Н	17.65	20.00	Door			
1754 20	20202	160 AM	4.4	Н	V	21.18	30.00	Pass			
1754.30	20393	16QAM	1.4	П	Н	17.05					

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	Н	V	22.15					
1720.00	20050	QF3K	20	П	Н	17.25	30.00	Pass			
1720.00	20050	16QAM	20	Н	V	21.36	30.00	Pa55			
1720.00	20050	IOQAW	20	П	Н	16.85					
	20MHz(RB size 50 & RB offset 0)										
1720.00	20050	QPSK	20	Н	V	22.41					
1720.00	20030	QFSK	20	П	Н	17.67	30.00	Pass			
1720.00	20050	16QAM	20	Н	V	23.04	30.00	F a 5 5			
1720.00	20030	TOQAIVI	20	11	Н	17.68					
		20MHz(RB size 100	& RB offs	et 0)						
1720.00	20050	QPSK	20	Н	V	21.57					
1720.00	20030	QF 5K	20	П	Н	17.03	30.00	Pass			
1720.00	20050	16QAM	20	Н	V	21.65	30.00	F a 5 5			
1720.00	20050	IOQAW	20	П	Н	17.24					



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)								
1722.50	20175	ODSK	20	Ш	V	21.99		Pass	
1732.50	20175	QPSK	20	Н	Н	16.83	30.00		
1722.50	20175	16O A M	20	Н	V	22.24	30.00		
1732.50	20175	16QAM	20	П	Н	16.74			
	20MHz(RB size 50 & RB offset 0)								
1732.50	20175	QPSK	20	Н	V	22.79	20.00		
1732.50	20175	QFSK	20	П	Н	17.97		Pass	
1732.50	20175	16QAM	20	Н	V	23.25	30.00	F a 5 5	
1732.50	20175	TOQAM	20	П	Н	17.57			
		20	MHz(RB siz	e 100 & R	B offset 0)				
1732.50	20175	QPSK	20	Н	V	21.48			
1732.50	20175	QFSK	20	П	Н	16.29	30.00	Pass	
1732.50	20175	16QAM	20	Н	V	22.09	30.00	F a 5 5	
1732.50	20173	TOQAW	20	I I	Н	16.38			

High channel

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	Н	V	22.14			
1745.00	20300	QFSK	20	П	Н	17.52	30.00	Docc	
1745.00	20300	16QAM	20	н	V	23.04	30.00	Pass	
1743.00	20300	TOQAM	20	11	Н	17.74			
	20MHz(RB size 50 & RB offset 0)								
1745.00	20300	QPSK	20	Н	V	23.14			
1745.00	20300	QFSK	20	11	Н	18.02	30.00	Pass	
1745.00	20300	16QAM	20	Н	V	23.31	30.00	rass	ı
1743.00	20300	TOQAM	20	11	Н	17.16			
		2	20MHz(RB s	ize 100 8	RB offset ())			
1745.00	20300	QPSK	20	Н	V	21.27			
1745.00	20300	QFSN	20	П	Н	16.25	30.00	Pass	
1745.00	20300	16QAM	20	Н	V	22.42	30.00	rass	,
1745.00	20300	IOQAWI	20	11	Н	17.28			



6.11 Field strength of spurious radiation measurement

	purious radiation measurement
Test Requirement:	FCC Part 24.238 (a), part 27.53(h)
Test Method:	FCC part2.1053
Limit:	LTE Band 2<E Band 4: -13 dBm
Test setup:	Below 1GHz
	Antenna Tower Search Antenna RF Test Receiver Ground Plane
	Above 1GHz Antenna Tower Harn Antenna Spectrum Antelifier Table Antelifier
	Substituted method:
	Ground plane d: distance in meters d:3 meter I -4 meter S.G. Substituted Dipole or Horn Antenna Bi-Log Antenna or Horn Antenna
Test Procedure:	 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. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations. The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.
	4. The spurious emissions attenuation was calculated as the difference
Shenzhen Zhongjian Nanfang Testing	

Shenzhen Zhongjian Nanfang Testing Co., Ltd.
No.B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China
Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366

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	between radiated power at the fundamental frequency and the spurious emissions frequency. ERP / EIRP = S.G. output (dBm) + Antenna Gain(dB/dBi) – Cable Loss (dB)
Test Uncertainty:	±4.88dB
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.





		TE band 2 part:				
		e 1 & RB offset 0)	for QPSK			
Frequency (MHz)	Spurious E		Limit (dBm)	Result		
	Polarization	Level (dBm)	Ziiiii (dDiii)	rtoodit		
		Lowest				
5552.10	V	-31.20	-13.00	Pass		
5552.10	Н	-33.58	10.00	1 400		
		Middle				
5640.00	V	-31.27	-13.00	Pass		
5640.00	Н	-35.28	-13.00	r ass		
		Highest				
5724.90	V	-33.84	42.00	Door		
5724.90	Н	-36.08	-13.00	Pass		
	3MHz(RB size	e 1 & RB offset 0) f	for QPSK			
Frequency (MHz)	Spurious Emission		Limit (dPm)	Result		
rrequericy (Minz)	Polarization	Level (dBm)	Limit (dBm)	Result		
Lowest						
5554.50	V	-30.88	-13.00	Pass		
5554.50	Н	-33.19	-13.00	r ass		
		Middle				
5640.00	V	-32.09	-13.00	Pass		
5640.00	Н	-36.64	-13.00	Pass		
		Highest				
5725.50	V	-35.30	40.00	D		
5725.50	Н	-37.35	-13.00	Pass		
	5MHz(RB size	e 1 & RB offset 0) f	for QPSK			
Frequency (MHz)	Spurious E	mission	Limit (dBm)	Result		
Frequency (Miriz)	Polarization	Level (dBm)	Lillill (dBill)	Result		
		Lowest		,		
5557.50	V	-30.88	-13.00	Pass		
5557.50	Н	-33.72	-13.00	1 833		
		Middle				
5640.00	V	-30.08	-13.00	Pass		
5640.00	Н	-34.22	-13.00	rass		
		Highest				
5722.50	V	-38.47	40.00	Dana		
5722.50	Н	-40.92	-13.00	Pass		





	10MHz(RB	size 1 & RB offset 0) for QPSK			
	Spuriou	s Emission				
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result		
		Lowest				
5565.00	V	-34.61	-13.00	Pass		
5565.00	Н	-36.75	-13.00	Pass		
		Middle				
5640.00	V	-36.09	-13.00	Pass		
5640.00	Н	-33.04	-13.00	Pass		
		Highest				
5715.00	V	-37.09	-13.00	Pass		
5715.00	Н	-35.92	-13.00	Pa55		
	15MHz(RB s	size 1 & RB offset 0) for QPSK			
Frequency (MHz)	■	Emission	Limit (dBm)	Result		
1 requeries (Wir 12)	Polarization	Level (dBm)	Limit (dDin)	rtoodit		
Lowest						
5572.50	V	-35.67	-13.00	Pass		
5572.50	Н	-35.92	10.00	1 400		
		Middle		1		
5640.00	V	-36.95	-13.00	Pass		
5640.00	Н	-32.86	10.00	1 433		
		Highest		1		
5707.50	V	-36.67	-13.00	Pass		
5707.50	Н	-35.87	-13.00	1 833		
	20MHz(RB s	size 1 & RB offset 0) for QPSK			
	Spurious	Emission				
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result		
		Lowest				
5580.00	V	-38.34	42.00	Dese		
5580.00	Н	-35.95	-13.00	Pass		
		Middle				
5640.00	V	-38.00	12.00	Door		
5640.00	Н	-34.23	-13.00 Pass			
		Highest				
5700.00	V	-40.49	12.00	Door		
5700.00	Н	-40.24	-13.00	Pass		





LTE Band 4 Part:

		TE Band 4 Part:					
	•	ze 1 & RB offset 0)	tor QPSK				
Frequency (MHz)	Spurious		Limit (dBm)	Result			
- 1 7 ()	Polarization	Level (dBm)	, ,				
T		Lowest	T	T			
5132.10	V	-34.96	-13.00	Pass			
5132.10	Н	-37.81					
Middle							
5197.50	V	-36.56	-13.00	Pass			
5197.50	Н	-37.06	10.00	1 433			
		Highest					
5262.90	V	-33.01	-13.00	Pass			
5262.90	Н	-34.27	-13.00	F455			
	3MHz(RB size	e 1 & RB offset 0) f	or QPSK				
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Result			
Frequency (MHZ)	Polarization	Level (dBm)	Limit (dbin)	Result			
Lowest							
5134.50	V	-37.44	-13.00	Pass			
5134.50	Н	-36.82	-13.00	F a 5 5			
		Middle					
5197.50	V	-36.61	42.00	Dese			
5197.50	Н	-37.48	-13.00	Pass			
		Highest					
5260.50	V	-35.48	40.00	Dana			
5260.50	Н	-36.69	-13.00	Pass			
	5MHz(RB size	e 1 & RB offset 0) fe	or QPSK				
F (MILL)	Spurious E	<i>-</i>		D !!			
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result			
		Lowest					
5137.50	V	-33.80	42.00	Door			
5137.50	Н	-36.53	-13.00	Pass			
		Middle					
5197.50	V	-38.96	40.00	Drivi			
5197.50	Н	-36.36	-13.00	Pass			
		Highest					
5257.50	V	-32.02	46.55				
5257.50	Н	-34.20	-13.00	Pass			
		<u> </u>	<u>l</u>	L			





	10MHz(RB s	ize 1 & RB offset 0) for QPSK		
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Result	
r requericy (Wir 12)	Polarization	Level (dBm)	Limit (dbin)	Nesuit	
		Lowest			
5145.00	V	-35.62	-13.00	Pass	
5145.00	Н	-36.15	-13.00	1 833	
		Middle			
5197.50	V	-34.58	-13.00	Pass	
5197.50	Н	-35.68	-13.00	Pa55	
		Highest			
5250.00	V	-38.02	40.00	Dana	
5250.00	Н	-37.15	-13.00	Pass	
	15MHz(RB s	ize 1 & RB offset 0) for QPSK	<u> </u>	
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Result	
rrequericy (MHZ)	Polarization	Level (dBm)	Liffiit (ubifi)		
		Lowest			
5152.50	V	-36.34	-13.00	Pass	
5152.50	Н	-37.01	-13.00	Fass	
		Middle			
5197.50	V	-36.68	-13.00	Pass	
5197.50	Н	-37.15	-13.00	F 455	
		Highest			
5242.50	V	-36.61	40.00	Dana	
5242.50	Н	-36.42	-13.00	Pass	
	20MHz(RB s	ize 1 & RB offset 0) for QPSK	1	
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Popult	
riequency (Minz)	Polarization	Level (dBm)	Limit (ubin)	Result	
		Lowest			
5160.00	V	-38.21	-13.00	Pass	
5160.00	Н	-42.70	-13.00	r ass	
		Middle			
5197.50	V	-38.98	-13.00	Pass	
5197.50	Н	-41.30	-13.00	Pass	
		Highest			
5235.00	V	-36.48	12.00	Door	
5235.00	Н	-40.81	-13.00	Pass	



6.12 Frequency stability V.S. Temperature measurement

Test Requirement:	FCC Part2.1055(a)(1)(b)
Test Method:	FCC Part2.1055(a)(1)(b)
Limit:	±2.5ppm
Test setup:	Spectrum analyzer EUT Att. Variable Power Supply
Test procedure:	 Note: Measurement setup for testing on Antenna connector The equipment under test was connected to an external DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	All three channels of all modulations have been tested, but only the worst channel and the worst modulation show in this test item.

Measurement Data (the worst channel):





LTE Band 2(QPSK):

		LIE Dallu	<u> </u>		
Reference Fr	equency: LTE Band	2(1.4MHz) N	/liddle channel=18900	channel=1880.00	OMHz
Power supplied	Temperature (°C)	Fre	equency error	Limpit (mmm)	Result
(Vdc)	Temperature (°C)	Hz	ppm	Limit (ppm)	Result
	-30	198	0.105319		
	-20	165	0.087766		
	-10	147	0.078191		
	0	187	0.099468		
3.80	10	136	0.072340	±2.5	Pass
0.00	20	157	0.083511		1 400
	30	123	0.065426		
	40	105	0.055851		
	50	142	0.075532		
Reference F			iddle channel=18900	channel-1880 00	MHz
Power supplied			equency error		
(Vdc)	Temperature (°C)	Hz	ppm	Limit (ppm)	Result
(100)	-30	156	0.082979		
	-20	147	0.078191		
	-10	123	0.065426		
	0	125	0.066489		
	10	114	0.060638	-	
3.80	20	102	0.054255	±2.5	Pass
	30	144			
	40	136	0.076596		
			0.072340		
	50 128 0.068085 Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880				
Reference F	requency: LTE Band			channel=1880.00	MHz
Power supplied (Vdc)	Temperature (°C)		Frequency error		Result
	. , ,	Hz	ppm	Limit (ppm)	
	-30	185	0.098404		
	-20 10	126 132	0.067021		
	-10 0	132	0.070213 0.063830	\dashv	
2.00	10	134	0.003630	±2.5	Pass
3.80	20	174	0.092553		1 433
	30	165	0.087766	7	
	40	155	0.082447		
	50	123	0.065426		





	T	Fre	quency error	11. 16.6	Result
Power supplied (Vdc)	Temperature (°C)	Hz	ppm	Limit (ppm)	
	-30	197	0.104787		
	-20	150	0.079787		
	-10	123	0.065426		
	0	162	0.086170		
3.80	10	102	0.054255	±2.5	Pass
	20	147	0.078191		
	30	112	0.059574		
	40	108	0.057447		
	50	136	0.072340		
Reference F	requency: LTE Band	2(15MHz) M	liddle channel=1890	0 channel=1880.00)MHz
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Б
i owei supplied (vdc)	remperature (C)	Hz	ppm	Littit (ppiti)	Result
	-30	156	0.082979		Pass
	-20	123	0.065426		
	-10	184	0.097872		
	0	197	0.104787		
3.80	10	128	0.068085	±2.5	
	20	104	0.055319		
	30	164	0.087234		
	40	120	0.063830		
	50	188	0.100000		
Reference F	requency: LTE Band	2(20MHz) M		0 channel=1880.00)MHz
D " 10/1)	T (°C)	Fre	quency error	1: '()	
Power supplied (Vdc)	Temperature (°C)	Hz	ppm	Limit (ppm)	Result
	-30	199	0.105851		
	-20	136	0.072340		
	-10	128	0.068085		
	0	174	0.092553		
3.80	10	102	0.054255	±2.5	Doco
	20	184	0.097872		Pass
	30 40	156 110	0.082979 0.058511		





LTE Band 2(16QAM):

		LIE Band 2	2(16QAW):		
Reference F	requency: LTE Band	2(1.4MHz)	Middle channel=18900	channel=1880.0	0MHz
Power supplied (Vdc)	Temperature (°C)		requency error	Limit (ppm)	Result
1 Ower Supplied (Vdc)		Hz	ppm	(11)	rtoodit
	-30	188	0.100000		
	-20	154	0.081915		
	-10	110	0.058511		
	0	123	0.065426		
3.80	10	165	0.087766	±2.5	Pass
	20	128	0.068085		
	30	167	0.088830		
	40	180	0.095745		
	50	157	0.083511		
Reference I	Frequency: LTE Band	d 2(3MHz) N	/liddle channel=18900	channel=1880.00)MHz
Dawer amplied ()/da)	Temperature (°C)	Frequency error		Limit (ppm)	Decult
Power supplied (Vdc)	romporataro (o)	Hz	ppm	(pp)	Result
	-30	187	0.099468		Pass
	-20	123	0.065426		
	-10	136	0.072340		
	0	134	0.071277	1	
3.80	10	138	0.073404	±2.5	
0.00	20	129	0.068617		
	30	174	0.092553		
	40	155	0.082447		
	50	167	0.088830		
Reference F			iddle channel=18900	 channel=1880.00	MHz
			equency error		
Power supplied (Vdc)	Temperature (°C)	Hz	ppm	Limit (ppm)	Result
	-30	199	0.105851		
	-20	123	0.065426		
	-10	165	0.087766		
	0	147	0.078191		_
3.80	10	108	0.057447	±2.5	Pass
	20	118	0.062766	_	
	30	167	0.088830		
	40	119	0.063298	_	
	50	108	0.057447		





		• •	iddle channel=18900 equency error		
Power supplied (Vdc)	Temperature (°C)	Hz	ppm	Limit (ppm)	Result
	-30	199	0.105851		
	-20	196	0.104255		
	-10	185	0.098404		
	0	132	0.070213		
3.80	10	165	0.087766	±2.5	Pass
	20	188	0.100000		
	30	134	0.071277		
	40	174	0.092553		
	50	160	0.085106		
Reference Fr	requency: LTE Band	2(15MHz) M	iddle channel=18900	0 channel=1880.00	MHz
Power supplied	Temperature (°C)		quency error	Limit (ppm)	Result
(Vdc)	remperature (0)	Hz	ppm	Еппи (ррпп)	rtoouit
	-30	182	0.096809		
	-20	102	0.054255		
	-10	131	0.069681		
	0	168	0.089362		Pass
3.80	10	117	0.062234	±2.5	
	20	140	0.074468		
	30	108	0.057447		
	40	169	0.089894		
	50	107	0.056915		
Reference Fr	requency: LTE Band			0 channel=1880.00	MHz
Power supplied	Temperature (°C)	Fre	equency error		
(Vdc)	remperature (C)	Hz	ppm	Limit (ppm)	Result
	-30	195	0.103723		
	-20	163	0.086702		
	-10	192	0.102128		
	0	167	0.088830		
3.80	10	180	0.095745	±2.5	Pass
0.00	20	183	0.097340		
	30	174	0.092553	_	
l l	40	176	0.093617		





LTE Band 4(QPSK):

5		LIE Ballu			N. 41.1
	requency: LTE Band	4(1.4MHz) N	Middle channel=20175	channel=1732.50)MHz
Power supplied	Temperature (°C)		equency error	Limit (ppm)	Result
(Vdc)	` ` `	Hz	ppm	Еппи (ррпп)	Rosuit
	-30	197	0.113709		
	-20	165	0.095238		
	-10	132	0.076190		
	0	108	0.062338		
3.80	10	107	0.061760	±2.5	Pass
0.00	20	115	0.066378		1 400
	30	164	0.094661		
	40	118	0.068110		
	50	116	0.066955	=	
Poforonco F			iddle channel=20175 o	hannal_1722 F0	MU>
	requency. LTE band				IVIIIZ
Power supplied	Temperature (°C)		equency error	Limit (ppm)	Result
(Vdc)	, ,	Hz	ppm	(F F · · · ·)	
	-30	199	0.114863		
	-20	165	0.095238		
	-10	120	0.069264		
	0	147	0.084848		
3.80	10	185	0.106782	±2.5	Pass
	20	164	0.094661		
	30	177	0.102165		
	40	123	0.070996	1	
	50	104	0.060029	1	
Reference F	requency: LTE Band	4(5MHz) M	iddle channel=20175 d	channel=1732.50	MHz
Power supplied (Vdc)	Temperature (°C)	Fr	equency error	Limit (ppm)	Result
Power supplied (vac)	remperature (C)	Hz	ppm	Limit (ppm)	Result
	-30	196	0.113131		
	-20	125	0.072150		
	-10	136	0.078499	4	
	0	184	0.106205		_
3.80	10	174	0.100433	±2.5	Pass
	20	121	0.069841	4	
	30	131	0.075613	4	
	40	101	0.058297	-	
	50	109	0.062915		





	, ,		iddle channel=20175		
Power supplied (Vdc)	Temperature (°C)	Hz	quency error	Limit (ppm)	Result
	-30	192	ppm 0.110823		
	-20	123	0.070996		
	-10	110	0.063492		
	0	145	0.083694		
3.80	10	178	0.102742	±2.5	Pass
3.00	20	164	0.094661		
	30	180	0.103896		
	40	119	0.068687		
	50	146	0.084271		
Reference F	requency: LTE Band	4(15MHz) M	liddle channel=2017	5 channel=1732.50	MHz
Power supplied (Vdc)	Temperature (°C)		quency error	Limit (ppm)	D !!
Tower supplied (vdc)	remperature (c)	Hz	ppm	Limit (ppm)	Result
	-30	177	0.102165		
	-20	154	0.088889		
	-10	165	0.095238		
	0	132	0.076190		Pass
3.80	10	155	0.089466	±2.5	
	20	136	0.078499		1 400
	30	142	0.081962		
	40	164	0.094661		
	50	106	0.061183		
Reference F	requency: LTE Band			5 channel=1732.50	MHz
D	T(°C)	Fre	quency error	1.111 (
Power supplied (Vdc)	Temperature (°C)	Hz	ppm	Limit (ppm)	Result
	-30	191	0.110245		
	-20	125	0.072150		
	-10	145	0.083694		
	0	123	0.070996		
3.80	10	148	0.085426	±2.5	Pass
	20	172	0.099278		r ass
	30	185	0.106782	-	
	40	166	0.095815	-	
	70	100	0.000010	1	





LTE Band 4(16QAM):

		LIE Ballu			
Reference F	requency: LTE Band	4(1.4MHz)	Middle channel=20175	channel=1732.5	0MHz
	Temperature (°C)	F	requency error	Limit (ppm)	
Power supplied (Vdc)	remperature (c)	Hz	ppm		Result
	-30	195	0.112554		
	-20	165	0.095238		
	-10	123	0.070996		
	0	147	0.084848		
3.80	10	178	0.102742	±2.5	Pass
0.00	20	188	0.108514		1 400
	30	120	0.069264		
	40	112	0.064646		
	50	130	0.075036		
Poforonco I			/liddle channel=20175	channel_1732 50	MUZ
Neierence i	requericy. LTL bank				IIVII IZ
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
Power supplied (vac)	· omporataro (o)	Hz	ppm	(pp)	Result
	-30	186	0.107359		
	-20	184	0.106205		
	-10	126	0.072727		
	0	136	0.078499	±2.5	
3.80	10	165	0.095238		Pass
0.00	20	177	0.102165		1 400
	30	145	0.083694	1	
	40	129	0.074459		
	50	102	0.058874		
Reference F	requency: LTE Band	4(5MHz) M	iddle channel=20175 d	channel=1732.50	MHz
Dawer augustical ()/da)	Tomporature (°C)	Frequency error		Lineit (none)	Decult
Power supplied (Vdc)	Temperature (°C)	Hz	ppm	Limit (ppm)	Result
	-30	199	0.114863		
	-20	163	0.094084	_	
	-10	123	0.070996	_	
	0	104	0.060029		_
3.80	10	114	0.065801	±2.5	Pass
	20	185	0.106782	-	
	30 40	174	0.100433 0.094084	-	
	50	163 135	0.094084	-	
	30	133	0.011922		





	- (00)	Fre	equency error		Result
Power supplied (Vdc)	Temperature (°C)	Hz	ppm	Limit (ppm)	
	-30	165	0.095238		
	-20	102	0.058874		
	-10	146	0.084271		
	0	153	0.088312		
3.80	10	120	0.069264	±2.5	Pass
	20	109	0.062915		
	30	114	0.065801		
	40	155	0.089466		
	50	136	0.078499		
Reference Fr	requency: LTE Band	4(15MHz) M	liddle channel=2017	5 channel=1732.50	MHz
Power supplied	Tomporatura (°C)	Fre	equency error	Limit (ppm)	Result
(Vdc)	Temperature (°C)	Hz	ppm	сини (ррии)	Result
	-30	182	0.105051		Pass
	-20	123	0.070996		
	-10	165	0.095238		
	0	177	0.102165		
3.80	10	145	0.083694	±2.5	
	20	159	0.091775		
	30	152	0.087734		
	40	130	0.075036		
	50	133	0.076768		
Reference F	requency: LTE Band	4(20MHz) N	/liddle channel=2017	5 channel=1732.50	MHz
Power supplied	T (%O)	Fre	equency error		
(Vdc)	Temperature (°C)	Hz	ppm	Limit (ppm)	Result
	-30	196	0.113131		
	-20	125	0.072150		
	-10	184	0.106205		
	0	176	0.101587		
3.80	10	135	0.077922	±2.5	Pass
0.00	20	164	0.094661	±2.5	Fa88
	30	123	0.070996		
	40	118	0.068110		



6.13 Frequency stability V.S. Voltage measurement

Test Requirement:	FCC Part2.1055(d)(1)(2)
Test Method:	FCC Part2.1055(d)(1)(2)
Limit:	±2.5ppm
Test setup:	Spectrum analyzer EUT Variable Power Supply Note: Measurement setup for testing on Antenna connector
Test procedure:	 Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. Reduce the input voltage to specify extreme voltage variation (+/-15%) and endpoint, record the maximum frequency change.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details, and all channels have been tested, only shows the worst channel data in this report.
Test results:	Passed

Measurement Data (the worst channel):





LTE Band 2(QPSK):

		LIE Band 2(Q	Ponj:		
Reference F	requency: LTE Band	2(1.4MHz) Middle	e channel=18900	channel=1880.00	MHz
Temperature (°C)	Power supplied		ncy error	Limit (ppm)	Result
	(Vdc)	Hz	ppm	Еппт (ррпп)	rtoodit
	4.25	88	0.046809		
25	3.80	65	0.034574	±2.5	Pass
	3.40	48	0.025532		
Reference F	requency: LTE Band	d 2(3MHz) Middle	channel=18900 d	channel=1880.00N	ИHz
T(°C)	Power supplied	Freque	ncy error	Limeit (mmm)	Danult
Temperature (℃)	(Vdc)	Hz	ppm	Limit (ppm)	Result
	4.25	96	0.051064		
25	3.80	35	0.018617	±2.5	Pass
	3.40	74	0.039362		
Reference F	requency: LTE Band	d 2(5MHz) Middle	channel=18900 d	channel=1880.00N	ИНz
T(%)	Power supplied	Freque	ncy error	12.24 (2.22)	D !!
Temperature (°C)	(Vdc)	Hz	ppm	Limit (ppm)	Result
	4.25	84	0.044681		
25	3.80	56	0.029787	±2.5	Pass
	3.40	97	0.051596		
Reference F	requency: LTE Band	2(10MHz) Middle	channel=18900	channel=1880.00	MHz
-	Power supplied	Frequency error			
Temperature (°C)	(Vdc)	Hz	ppm	Limit (ppm)	Result
	4.25	66	0.035106		
25	3.80	35	0.018617	±2.5	Pass
	3.40	84	0.044681		
Reference F	requency: LTE Band	2(15MHz) Middle		channel=1880.00	MHz
	Power supplied		ncy error	1	
Temperature (℃)	(Vdc)	Hz	ppm	Limit (ppm)	Result
	4.25	77	0.040957		
25	3.80	48	0.025532	±2.5	Pass
20	3.40	92	0.048936		1 455
Reference F	requency: LTE Band		•	channel=1880 00	MHz
	Power supplied	, ,	ncy error	J	
Temperature (°C)	(Vdc)	Hz	ppm	Limit (ppm)	Result
	4.25	86	0.045745		
25	3.80	55	0.029255	±2.5	Pass
20	3.40	48	0.025532	·	. 400
	3.40	40	0.020002		





LTE Band 2(16QAM):

Reference F	requency: LTE Band	2(1.4MHz) Middle	e channel=18900	channel=1880.00	MHz
Temperature (°C)	Power supplied	Freque	ncy error	Limit (ppm)	Result
remperature (C)	(Vdc)	Hz	ppm	Еппи (ррпп)	Nesuit
	4.25	91	0.048404		
25	3.80	56	0.029787	±2.5	Pass
	3.40	84	0.044681		
Reference	Frequency: LTE Band	d 2(3MHz) Middle	channel=18900 d	channel=1880.00N	ИHz
Tamanaratura (°C)	Power supplied	Freque	ncy error	Limit (mmm)	Dogult
Temperature (°C)	(Vdc)	Hz	ppm	Limit (ppm)	Result
	4.25	78	0.041489		
25	3.80	69	0.036702	±2.5	Pass
	3.40	58	0.030851		
Reference	Frequency: LTE Band	d 2(5MHz) Middle	channel=18900 d	channel=1880.00N	ЛНz
T (%C)	Power supplied	Freque	Frequency error		5
Temperature (℃)	(Vdc)	Hz	ppm	Limit (ppm)	Result
	4.25	84	0.039362		
25	3.80	56	0.024468	±2.5	Pass
	3.40	71	0.030851	1	
Reference F	requency: LTE Band	2(10MHz) Middle	s shannal_19000	channal_1990 001	. 41.1
		Z(101VII 1Z) IVIIGGIC	channel=10900	Criaririei= 1000.001	VIHZ
T (%C)	, ,	,			
Temperature (℃)	Power supplied	,	ncy error	Limit (ppm)	Result
Temperature (°C)	Power supplied (Vdc)	Freque Hz	ncy error ppm		
Temperature (°C)	Power supplied	Freque	ppm 0.044681		Result
	Power supplied (Vdc) 4.25	Frequer Hz 99	ncy error ppm	Limit (ppm)	
25	Power supplied (Vdc) 4.25 3.80 3.40	Frequer Hz 99 53 49	ppm 0.044681 0.029787 0.037766	Limit (ppm)	Result Pass
25 Reference F	Power supplied (Vdc) 4.25 3.80 3.40 Frequency: LTE Band	Frequence Hz 99 53 49 2(15MHz) Middle	ppm 0.044681 0.029787 0.037766 e channel=18900	±2.5 channel=1880.00l	Result Pass MHz
25	Power supplied (Vdc) 4.25 3.80 3.40 Frequency: LTE Band Power supplied	Frequence Hz 99 53 49 2(15MHz) Middle Frequence	ppm 0.044681 0.029787 0.037766 e channel=18900 ncy error	Limit (ppm)	Result Pass
25 Reference F	Power supplied (Vdc) 4.25 3.80 3.40 Frequency: LTE Band Power supplied (Vdc)	Frequence Hz 99 53 49 2(15MHz) Middle	ppm 0.044681 0.029787 0.037766 channel=18900 ncy error ppm	±2.5 channel=1880.00l	Result Pass MHz
25 Reference F Temperature (°C)	Power supplied (Vdc) 4.25 3.80 3.40 Frequency: LTE Band Power supplied (Vdc) 4.25	Frequence Hz 99 53 49 2(15MHz) Middle Frequence Hz 69	0.044681 0.029787 0.037766 channel=18900 ncy error ppm 0.036702	±2.5 channel=1880.000 Limit (ppm)	Result Pass MHz Result
25 Reference F	Power supplied (Vdc) 4.25 3.80 3.40 Frequency: LTE Band Power supplied (Vdc)	Frequence Hz 99 53 49 2(15MHz) Middle Frequence Hz	ppm 0.044681 0.029787 0.037766 channel=18900 ncy error ppm	±2.5 channel=1880.00l	Result Pass MHz
25 Reference F Temperature (°C) 25	Power supplied (Vdc) 4.25 3.80 3.40 Frequency: LTE Band (Vdc) 4.25 3.80 3.40	Frequence Hz 99 53 49 2(15MHz) Middle Frequence Hz 69 58 74	ppm 0.044681 0.029787 0.037766 channel=18900 ncy error ppm 0.036702 0.030851 0.039362	Limit (ppm) ±2.5 channel=1880.00I Limit (ppm) ±2.5	Result Pass MHz Result Pass
25 Reference F Temperature (°C) 25 Reference F	Power supplied (Vdc) 4.25 3.80 3.40 Frequency: LTE Band (Vdc) 4.25 3.80 3.40 Frequency: LTE Band (Vdc) 4.25 3.80 3.40 Frequency: LTE Band	Frequent Hz 99 53 49 2(15MHz) Middle Frequent Hz 69 58 74 2(20MHz) Middle	ppm 0.044681 0.029787 0.037766 channel=18900 ncy error ppm 0.036702 0.030851 0.039362 channel=18900	Limit (ppm) ±2.5 channel=1880.00I Limit (ppm) ±2.5 channel=1880.00I	Result Pass MHz Result Pass
25 Reference F Temperature (°C) 25	Power supplied (Vdc) 4.25 3.80 3.40 Frequency: LTE Band (Vdc) 4.25 3.80 3.40	Frequent Hz 99 53 49 2(15MHz) Middle Frequent Hz 69 58 74 2(20MHz) Middle	ppm 0.044681 0.029787 0.037766 channel=18900 ncy error ppm 0.036702 0.030851 0.039362 channel=18900 ncy error	Limit (ppm) ±2.5 channel=1880.00I Limit (ppm) ±2.5	Result Pass MHz Result Pass
25 Reference F Temperature (°C) 25 Reference F	Power supplied (Vdc) 4.25 3.80 3.40 Frequency: LTE Band (Vdc) 4.25 3.80 3.40 Frequency: LTE Band Power supplied (Vdc) 4.25 3.80 3.40 Frequency: LTE Band Power supplied	Frequence Hz 99 53 49 2(15MHz) Middle Frequence Hz 69 58 74 2(20MHz) Middle Frequence Frequence Hz	ppm 0.044681 0.029787 0.037766 channel=18900 ncy error ppm 0.036702 0.030851 0.039362 channel=18900	Limit (ppm) ±2.5 channel=1880.00I Limit (ppm) ±2.5 channel=1880.00I	Result Pass MHz Result Pass
25 Reference F Temperature (°C) 25 Reference F	Power supplied (Vdc) 4.25 3.80 3.40 Frequency: LTE Band (Vdc) 4.25 3.80 3.40 Frequency: LTE Band (Vdc) 4.25 3.80 3.40 Frequency: LTE Band	Frequence Hz 99 53 49 2(15MHz) Middle Frequence Hz 69 58 74 2(20MHz) Middle Frequence Hz	ppm 0.044681 0.029787 0.037766 channel=18900 ncy error ppm 0.036702 0.039362 channel=18900 ncy error ppm	Limit (ppm) ±2.5 channel=1880.00I Limit (ppm) ±2.5 channel=1880.00I	Result Pass MHz Result Pass





LTE Band 4(QPSK):

Reference F	requency: LTE Band	4(1.4MHz) Middle	e channel=20175	channel=1732.50	MHz
T (90)	Power supplied	Freque	ncy error	Limit (mma)	Danielt
Temperature (°C)	(Vdc)	Hz	ppm	Limit (ppm)	Result
	4.25	96	0.055411		
25	3.80	48	0.027706	±2.5	Pass
	3.40	75	0.043290		
Reference I	Frequency: LTE Band	I 4(3MHz) Middle	channel=20175 c	channel=1732.50M	1Hz
T (00)	Power supplied	Freque	ncy error	1	·
Temperature (°C)	(Vdc)	Hz	ppm	Limit (ppm)	Result
	4.25	82	0.047330		
25	3.80	61	0.035209	±2.5	Pass
	3.40	38	0.021934		
Reference I	Frequency: LTE Band	4(5MHz) Middle		channel=1732.50M	1Hz
	Power supplied	Freque	ncy error		
Temperature (°C)	(Vdc)	Hz	ppm	Limit (ppm)	Result
	4.25	98	0.056566		
25	3.80	45	0.025974	±2.5	Pass
-	3.40	28	0.016162	-	
Reference F	requency: LTE Band	4(10MHz) Middle		channel=1732.50l	МНz
	<u> </u>	,	channel=20175		
Reference F	Power supplied	,	channel=20175 ncy error	channel=1732.50I	MHz Result
	Power supplied (Vdc)	Freque Hz	e channel=20175 ncy error ppm		
Temperature (°C)	Power supplied (Vdc) 4.25	Freque Hz 84	e channel=20175 ncy error ppm 0.048485	Limit (ppm)	
	Power supplied (Vdc) 4.25 3.80	Freque Hz	e channel=20175 ncy error ppm 0.048485 0.037518		Result
Temperature (°C)	Power supplied (Vdc) 4.25 3.80 3.40	Freque Hz 84 65 71	channel=20175 ncy error ppm 0.048485 0.037518 0.040981	Limit (ppm)	Result Pass
Temperature (°C) 25 Reference F	Power supplied (Vdc) 4.25 3.80 3.40 requency: LTE Band	Freque Hz 84 65 71 4(15MHz) Middle	channel=20175 ppm 0.048485 0.037518 0.040981 channel=20175	±2.5 channel=1732.50	Result Pass
Temperature (°C)	Power supplied (Vdc) 4.25 3.80 3.40 Frequency: LTE Band Power supplied	Freque Hz 84 65 71 4(15MHz) Middle	channel=20175 ncy error ppm 0.048485 0.037518 0.040981 channel=20175 ncy error	Limit (ppm)	Result Pass
Temperature (°C) 25 Reference F	Power supplied (Vdc) 4.25 3.80 3.40 Frequency: LTE Band Power supplied (Vdc)	Freque Hz 84 65 71 4(15MHz) Middle Freque Hz	channel=20175 ncy error ppm 0.048485 0.037518 0.040981 channel=20175 ncy error ppm	±2.5 channel=1732.50	Result Pass MHz
Temperature (°C) 25 Reference F Temperature (°C)	Power supplied (Vdc) 4.25 3.80 3.40 Frequency: LTE Band Power supplied (Vdc) 4.25	Freque Hz 84 65 71 4(15MHz) Middle Freque Hz 55	channel=20175 ncy error	±2.5 channel=1732.50I	Result Pass MHz Result
Temperature (°C) 25 Reference F	Power supplied (Vdc) 4.25 3.80 3.40 Frequency: LTE Band (Vdc) 4.25 3.80	Freque Hz 84 65 71 4(15MHz) Middle Freque Hz 55	ppm 0.048485 0.037518 0.040981 e channel=20175 ncy error ppm 0.031746 0.018470	±2.5 channel=1732.50	Result Pass MHz
Temperature (°C) 25 Reference F Temperature (°C) 25	Power supplied (Vdc) 4.25 3.80 3.40 Frequency: LTE Band Power supplied (Vdc) 4.25 3.80 3.40	Freque Hz 84 65 71 4(15MHz) Middle Freque Hz 55 32 93	channel=20175 ncy error ppm 0.048485 0.037518 0.040981 channel=20175 ncy error ppm 0.031746 0.018470 0.053680	±2.5 channel=1732.50I Limit (ppm) ±2.5	Result Pass MHz Result Pass
Temperature (°C) 25 Reference F Temperature (°C) 25 Reference F	Power supplied (Vdc) 4.25 3.80 3.40 requency: LTE Band Power supplied (Vdc) 4.25 3.80 3.40 requency: LTE Band	Freque Hz 84 65 71 4(15MHz) Middle Freque Hz 55 32 93 4(20MHz) Middle	channel=20175 ncy error ppm 0.048485 0.037518 0.040981 channel=20175 ncy error ppm 0.031746 0.018470 0.053680 channel=20175	Limit (ppm) ±2.5 channel=1732.50I Limit (ppm) ±2.5 channel=1732.50I	Result Pass MHz Result Pass
Temperature (°C) 25 Reference F Temperature (°C) 25	Power supplied (Vdc) 4.25 3.80 3.40 Frequency: LTE Band Power supplied (Vdc) 4.25 3.80 3.40 Frequency: LTE Band Power supplied	Freque Hz 84 65 71 4(15MHz) Middle Freque Hz 55 32 93 4(20MHz) Middle Freque	channel=20175 ncy error ppm 0.048485 0.037518 0.040981 channel=20175 ncy error ppm 0.031746 0.018470 0.053680 channel=20175 ncy error	±2.5 channel=1732.50I Limit (ppm) ±2.5	Result Pass MHz Result Pass
Temperature (°C) 25 Reference F Temperature (°C) 25 Reference F	Power supplied (Vdc) 4.25 3.80 3.40 Frequency: LTE Band (Vdc) 4.25 3.80 3.40 Frequency: LTE Band (Vdc) 4.25 3.80 3.40 Frequency: LTE Band Power supplied (Vdc) (Vdc)	Freque Hz 84 65 71 4(15MHz) Middle Freque Hz 55 32 93 4(20MHz) Middle Freque Hz	channel=20175 ncy error ppm 0.048485 0.037518 0.040981 channel=20175 ncy error ppm 0.031746 0.018470 0.053680 channel=20175 ncy error ppm	Limit (ppm) ±2.5 channel=1732.50I Limit (ppm) ±2.5 channel=1732.50I	Result Pass MHz Result Pass
Temperature (°C) 25 Reference F Temperature (°C) 25 Reference F	Power supplied (Vdc) 4.25 3.80 3.40 Frequency: LTE Band Power supplied (Vdc) 4.25 3.80 3.40 Frequency: LTE Band Power supplied	Freque Hz 84 65 71 4(15MHz) Middle Freque Hz 55 32 93 4(20MHz) Middle Freque	channel=20175 ncy error ppm 0.048485 0.037518 0.040981 channel=20175 ncy error ppm 0.031746 0.018470 0.053680 channel=20175 ncy error	Limit (ppm) ±2.5 channel=1732.50I Limit (ppm) ±2.5 channel=1732.50I	Result Pass MHz Result Pass





LTE Band 4(16QAM):

		LIE Ballu 4(10				
Reference F	requency: LTE Band	4(1.4MHz) Middle	e channel=20175	channel=1732.50	MHz	
Temperature (°C)	Power supplied	Freque	ncy error	Limit (ppm)	Result	
Temperature (C)	(Vdc)	Hz	ppm	Еши (ррш)	IXESUIL	
	4.25	82	0.047330			
25	3.80	56	0.032323	±2.5	Pass	
	3.40	97	0.055988			
Reference	Frequency: LTE Band	d 4(3MHz) Middle	channel=20175 c	channel=1732.50N	ИHz	
T(%)	Power supplied	Freque	ncy error	Livit (v.v.) D.	D II	
Temperature (°C)	(Vdc)	Hz	ppm	Limit (ppm)	Result	
	4.25	45	0.025974	±2.5		
25	3.80	67	0.038672		Pass	
	3.40	79	0.045599	1		
Reference	Frequency: LTE Band	d 4(5MHz) Middle	channel=20175 d	channel=1732.50N	1Hz	
_ (00)	Power supplied	Freque	ncy error			
Temperature (°C)	(Vdc)	Hz	ppm	Limit (ppm)	Result	
	4.25	88	0.050794			
25	3.80	59	0.034055	±2.5	Pass	
	3.40	76	0.043867	1		
Reference F	requency: LTE Band	4(10MHz) Middle	channel=20175	channel=1732.50I	ИНz	
- (00)	Power supplied	Freque	ncy error			
Temperature (°C)	(Vdc)	Hz	ppm	Limit (ppm)	Result	
	4.25	48	0.027706			
25	3.80	57	0.032900	±2.5	Pass	
	3.40	92	0.053102	1		
Reference F	requency: LTE Band	4(15MHz) Middle		channel=1732 50I	A1.1	
			0114111101-20110		VIHZ	
	Power supplied					
Temperature (°C)	Power supplied (Vdc)	Freque	ncy error	Limit (ppm)	Result	
Temperature (°C)	(Vdc)	Freque Hz	ncy error ppm			
· · · · · · · · · · · · · · · · · · ·	(Vdc) 4.25	Freque Hz 77	ppm 0.044444	Limit (ppm)	Result	
Temperature (°C) 25	(Vdc) 4.25 3.80	Frequel Hz 77 62	ppm 0.044444 0.035786			
25	(Vdc) 4.25	Freque Hz 77 62 84	ppm 0.044444 0.035786 0.048485	Limit (ppm)	Result Pass	
25 Reference F	(Vdc) 4.25 3.80 3.40 Frequency: LTE Band	Freque Hz 77 62 84 4(20MHz) Middle	ppm 0.044444 0.035786 0.048485 channel=20175	±2.5	Result Pass MHz	
25	(Vdc) 4.25 3.80 3.40 Frequency: LTE Band Power supplied	Freque Hz 77 62 84 4(20MHz) Middle Freque	ppm 0.044444 0.035786 0.048485 channel=20175	Limit (ppm)	Result Pass	
25 Reference F	(Vdc) 4.25 3.80 3.40 Frequency: LTE Band Power supplied (Vdc)	Freque Hz 77 62 84 4(20MHz) Middle Freque Hz	ppm 0.044444 0.035786 0.048485 channel=20175 ncy error ppm	±2.5	Result Pass MHz	
25 Reference F	(Vdc) 4.25 3.80 3.40 Frequency: LTE Band Power supplied	Freque Hz 77 62 84 4(20MHz) Middle Freque	ppm 0.044444 0.035786 0.048485 channel=20175	±2.5	Result Pass MHz	