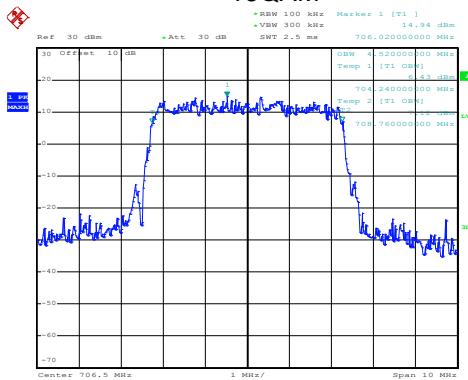


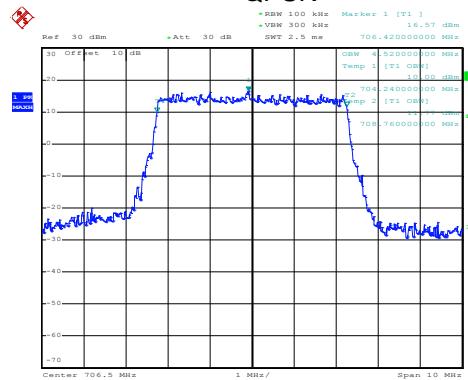
LTE Band 17 part:

LTE Band 17: 99% Occupy bandwidth  
BW: 5MHz

16QAM



QPSK

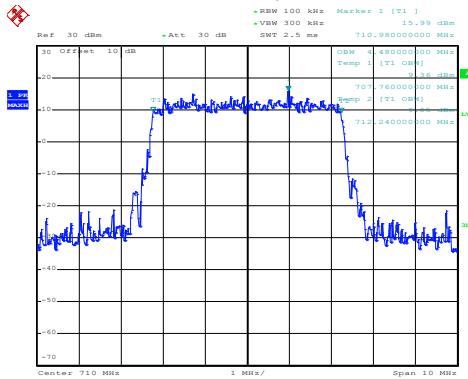


Date: 18.DEC.2018 00:30:51

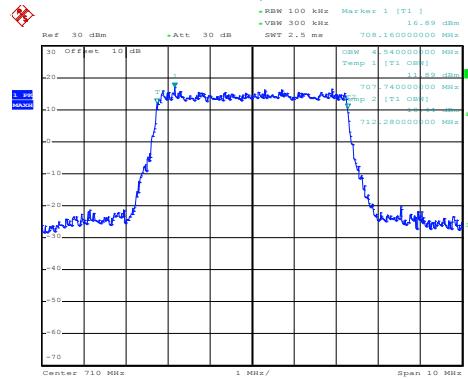
Date: 18.DEC.2018 00:30:47

Lowest channel

16QAM



QPSK

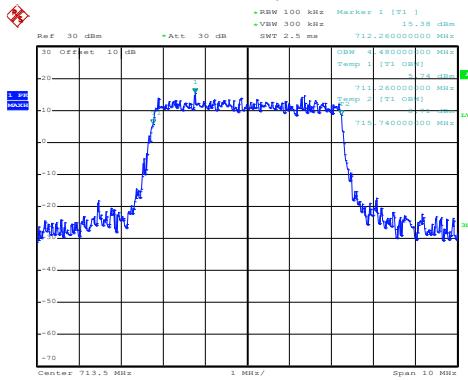


Date: 18.DEC.2018 00:31:37

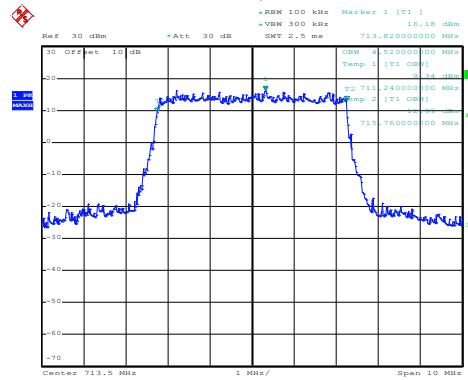
Date: 18.DEC.2018 00:31:34

Middle channel

16QAM



QPSK



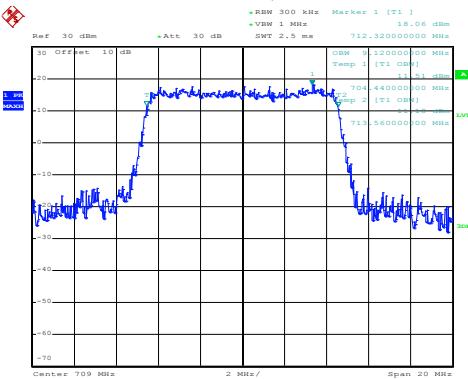
Date: 18.DEC.2018 00:31:52

Date: 18.DEC.2018 00:31:49

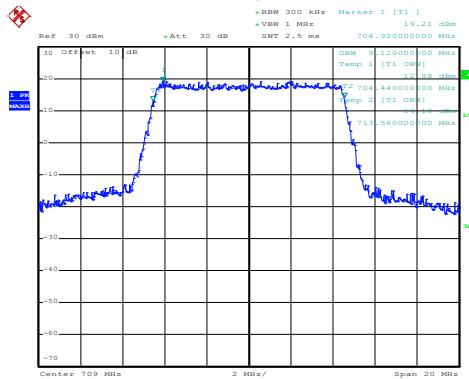
Highest channel

LTE Band 17: 99% Occupy bandwidth  
BW: 10MHz

## 16QAM



## QPSK

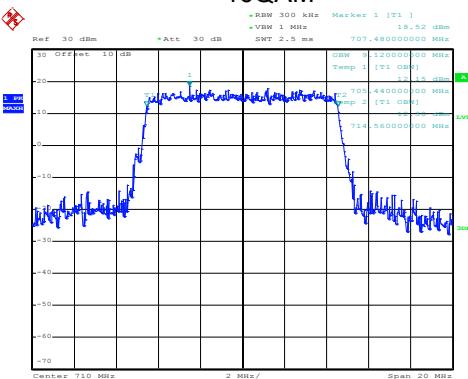


Date: 18.DEC.2018 00:33:06

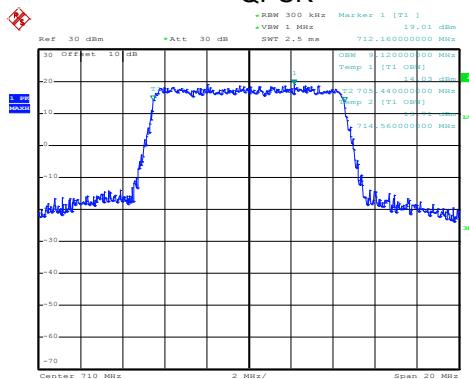
Date: 18.DEC.2018 00:33:01

## Lowest channel

## 16QAM



## QPSK

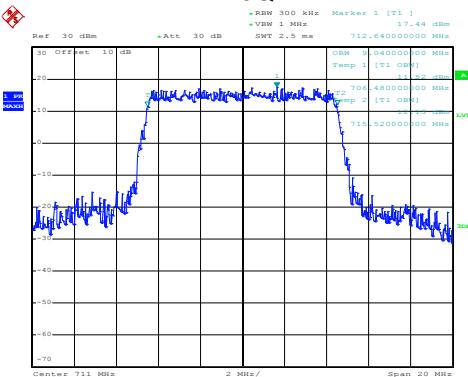


Date: 18.DEC.2018 00:34:16

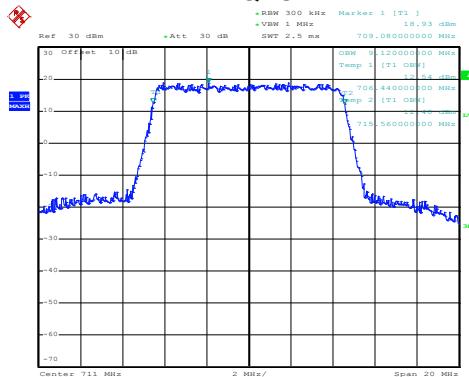
Date: 18.DEC.2018 00:34:12

## Middle channel

## 16QAM



## QPSK



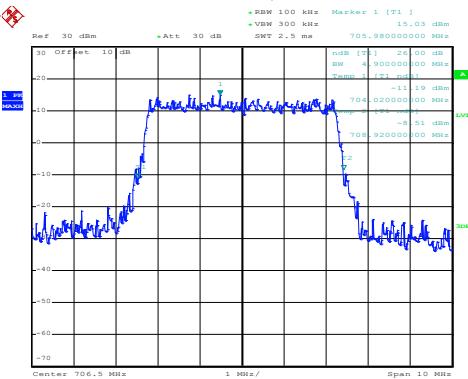
Date: 18.DEC.2018 00:34:35

Date: 18.DEC.2018 00:34:32

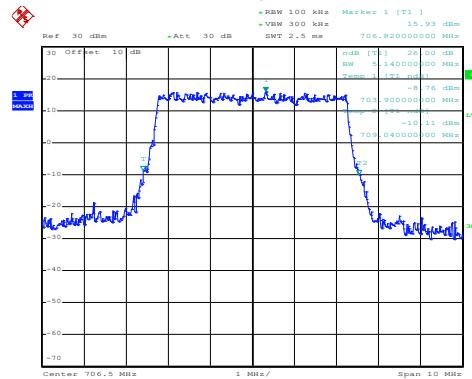
## Highest channel

LTE Band 17: -26dBc bandwidth  
BW: 5MHz

16QAM



QPSK

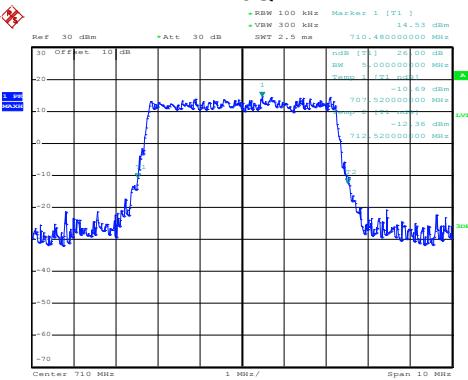


Date: 18.DEC.2018 00:31:03

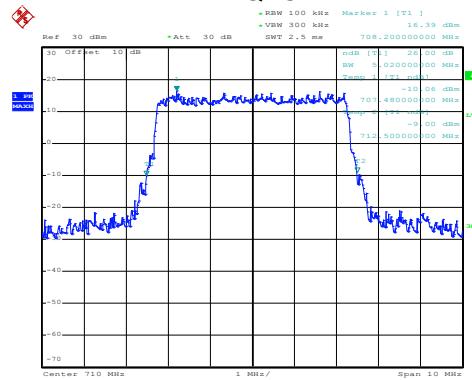
Date: 18.DEC.2018 00:30:59

## Lowest channel

16QAM



QPSK

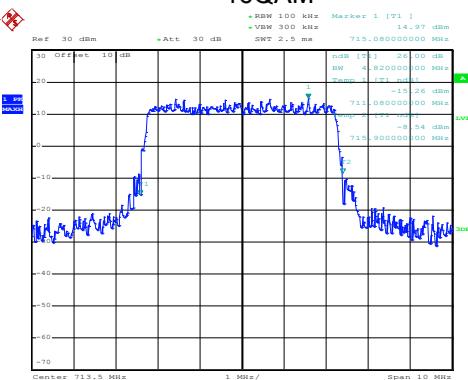


Date: 18.DEC.2018 00:31:22

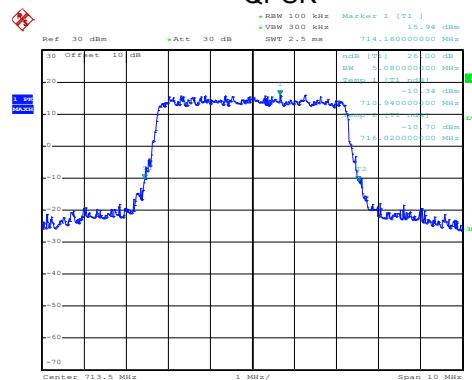
Date: 18.DEC.2018 00:31:17

## Middle channel

16QAM



QPSK



Date: 18.DEC.2018 00:32:04

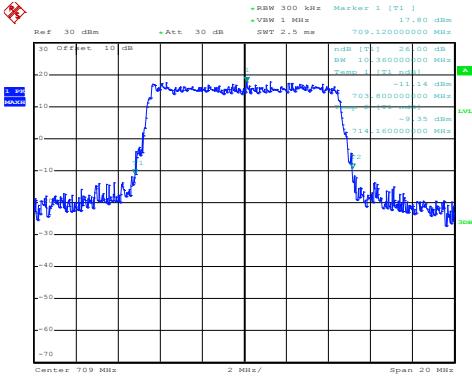
Date: 18.DEC.2018 00:32:00

## Highest channel

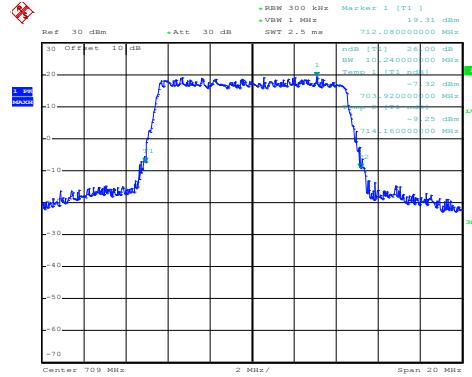
## LTE Band 17: -26dBc bandwidth

BW: 10MHz

## 16QAM



## QPSK

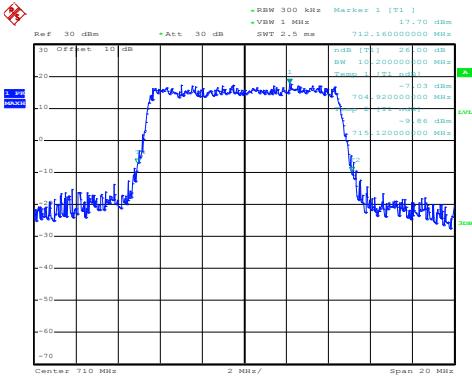


Date: 18.DEC.2018 00:32:43

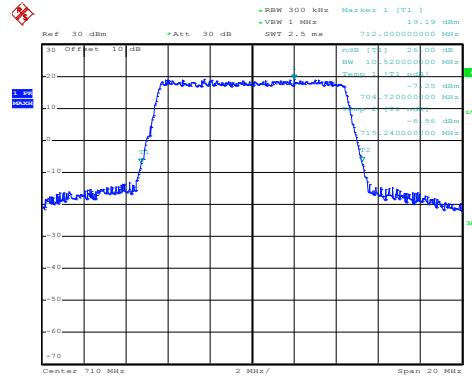
Date: 18.DEC.2018 00:33:15

## Lowest channel

## 16QAM



## QPSK

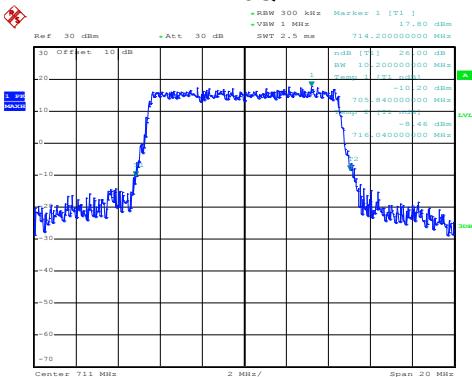


Date: 18.DEC.2018 00:34:02

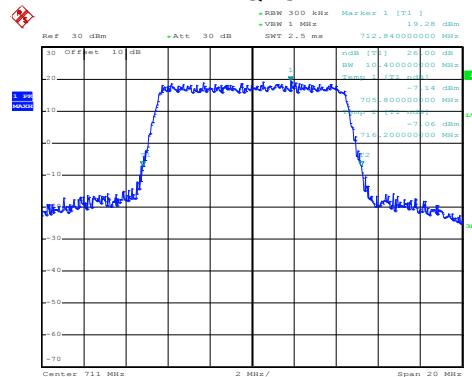
Date: 18.DEC.2018 00:33:58

## Middle channel

## 16QAM



## QPSK

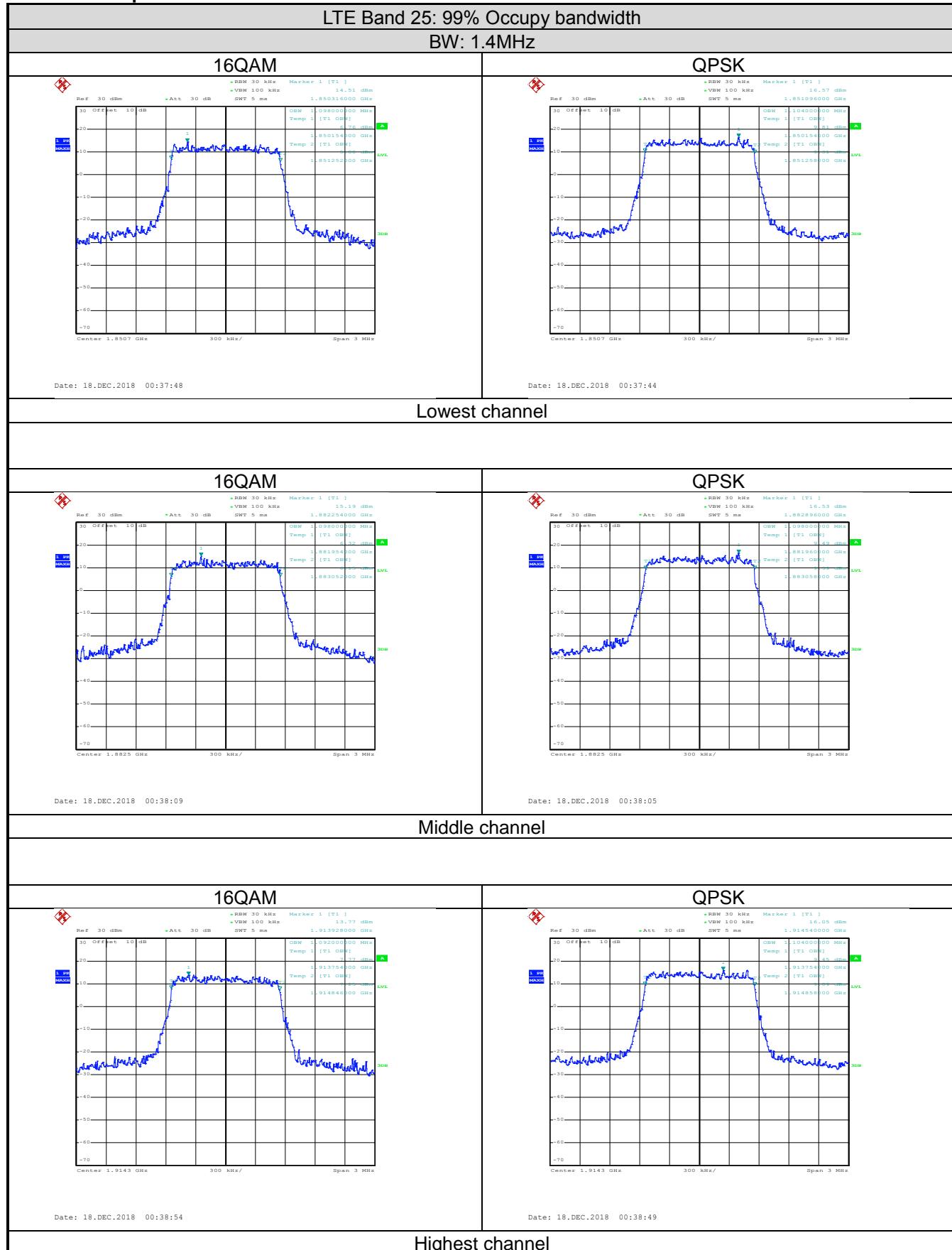


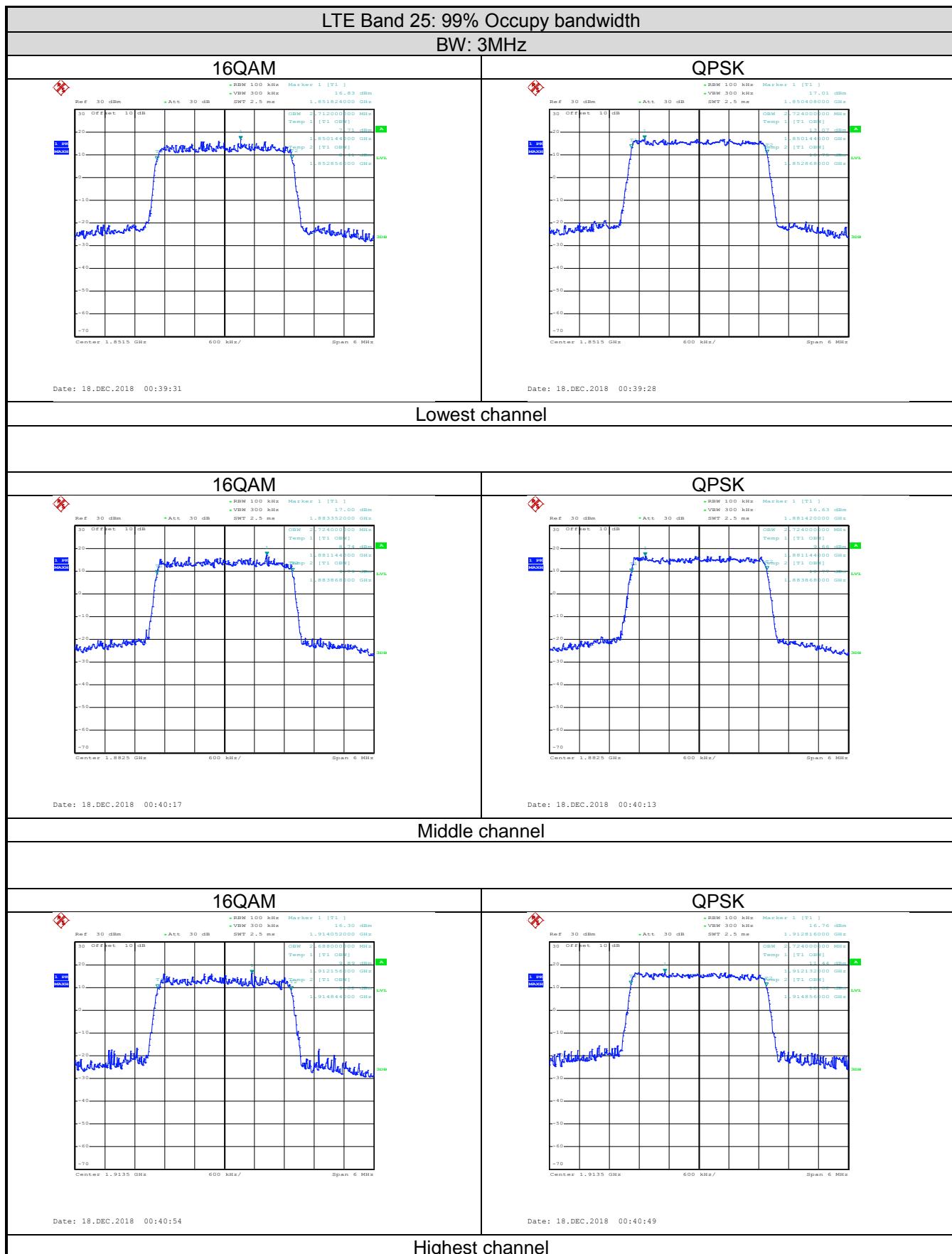
Date: 18.DEC.2018 00:34:49

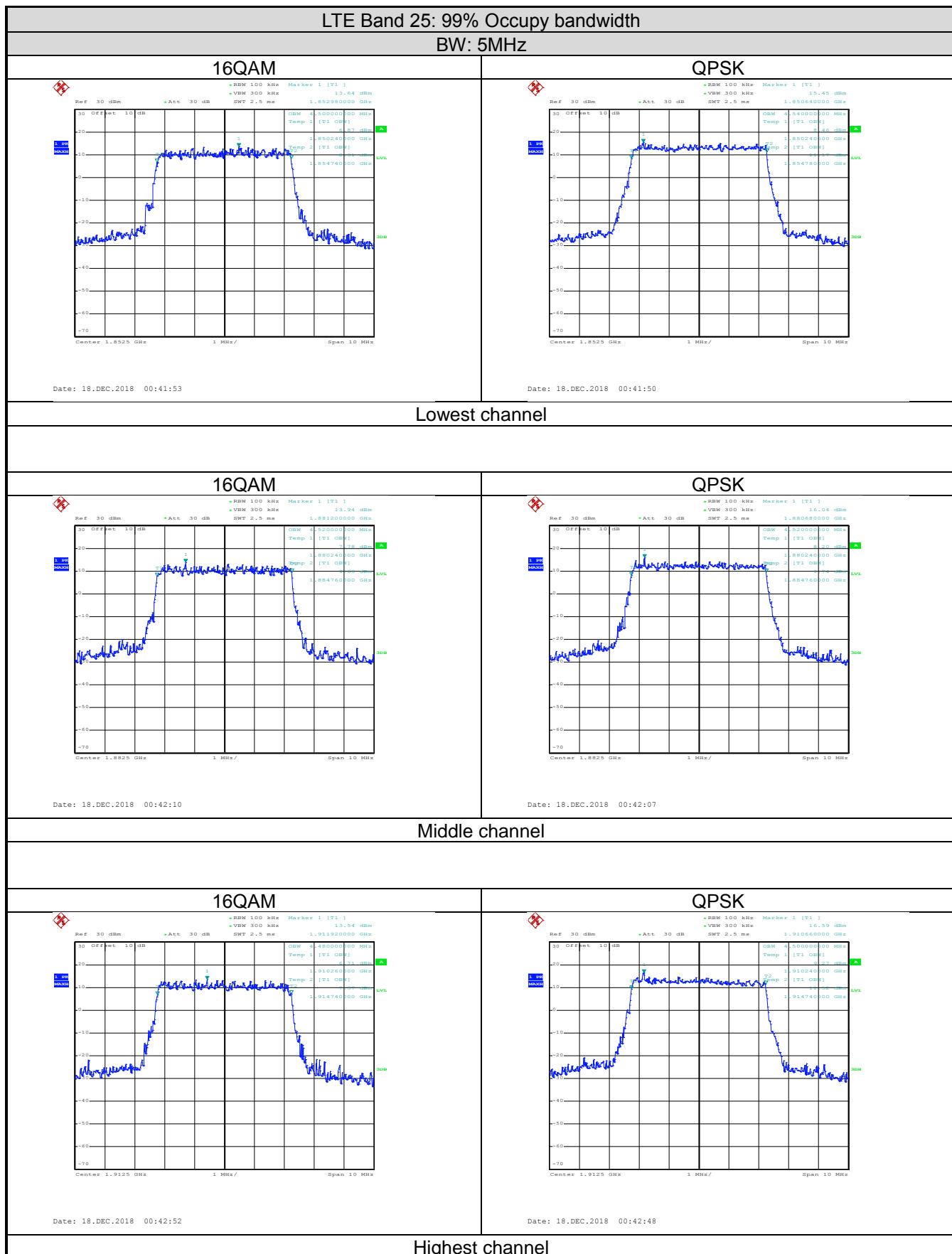
Date: 18.DEC.2018 00:34:45

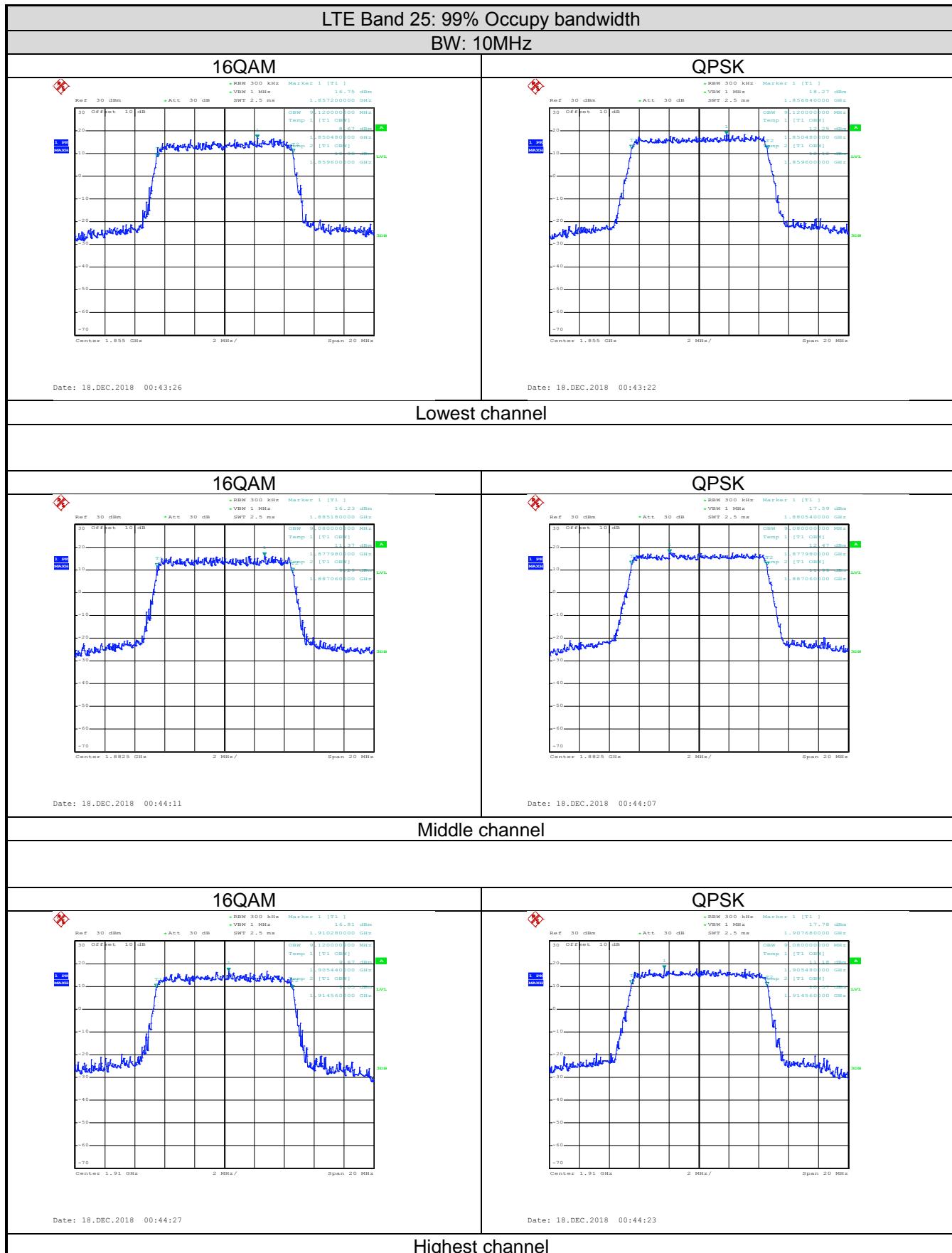
## Highest channel

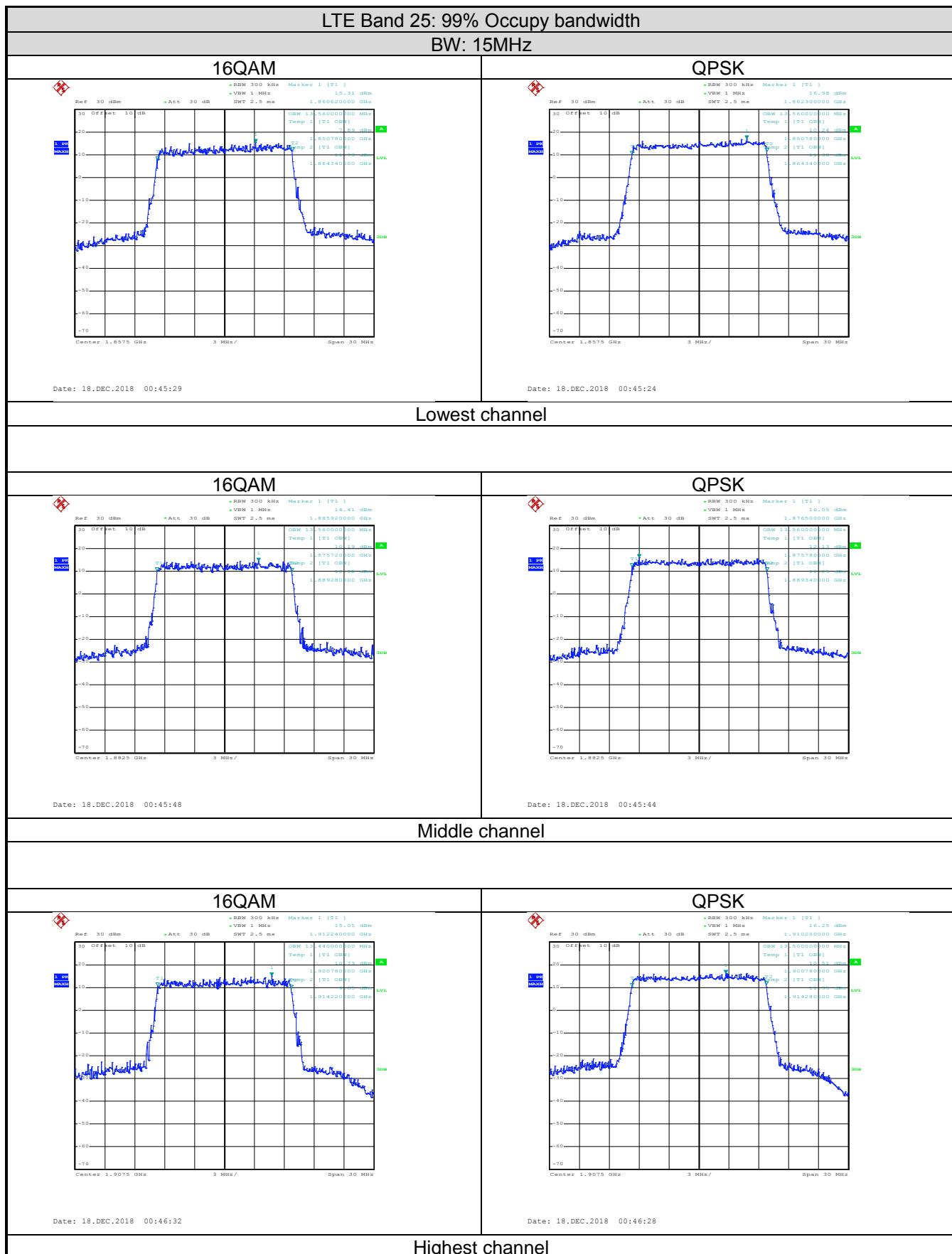
## LTE Band 25 part:

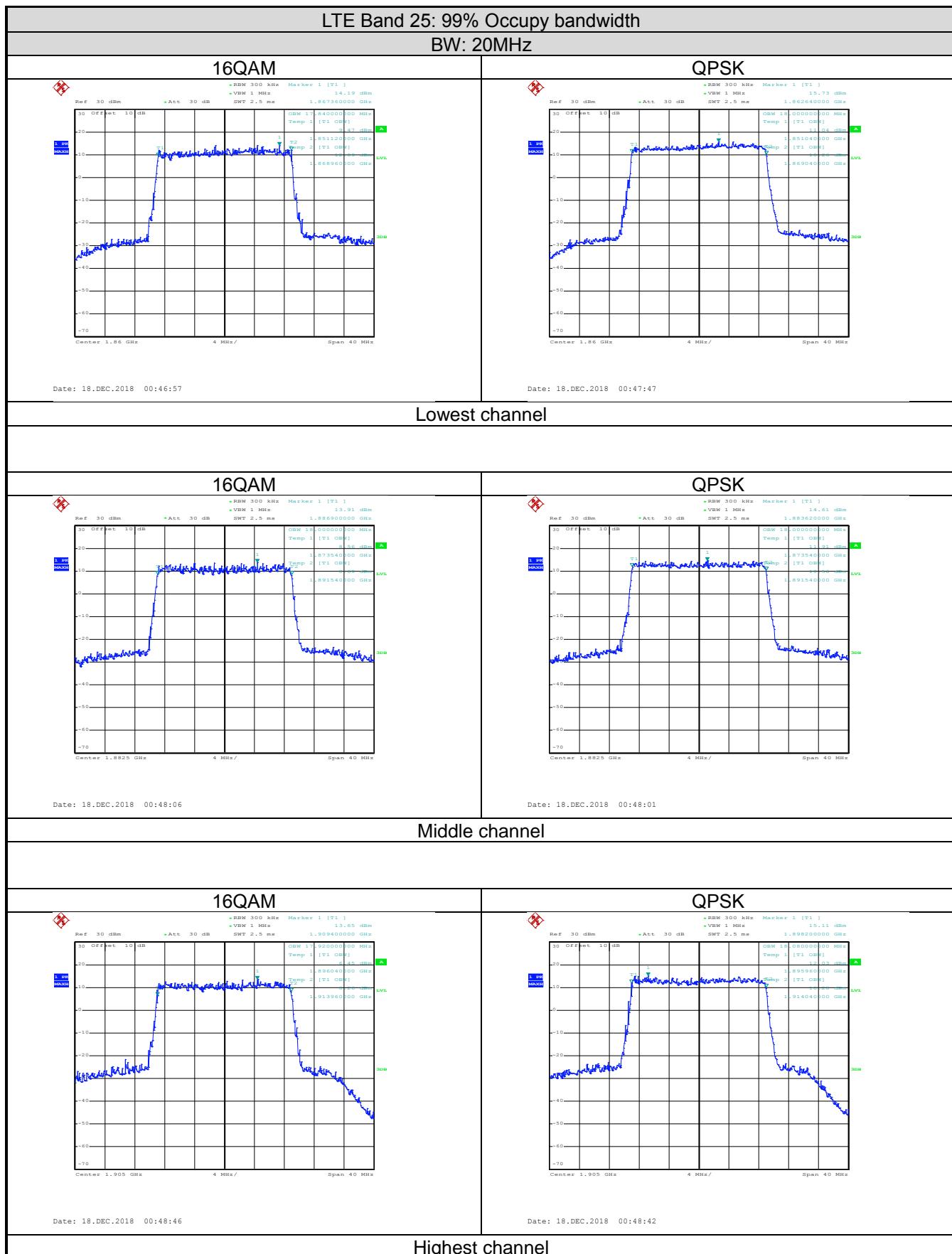


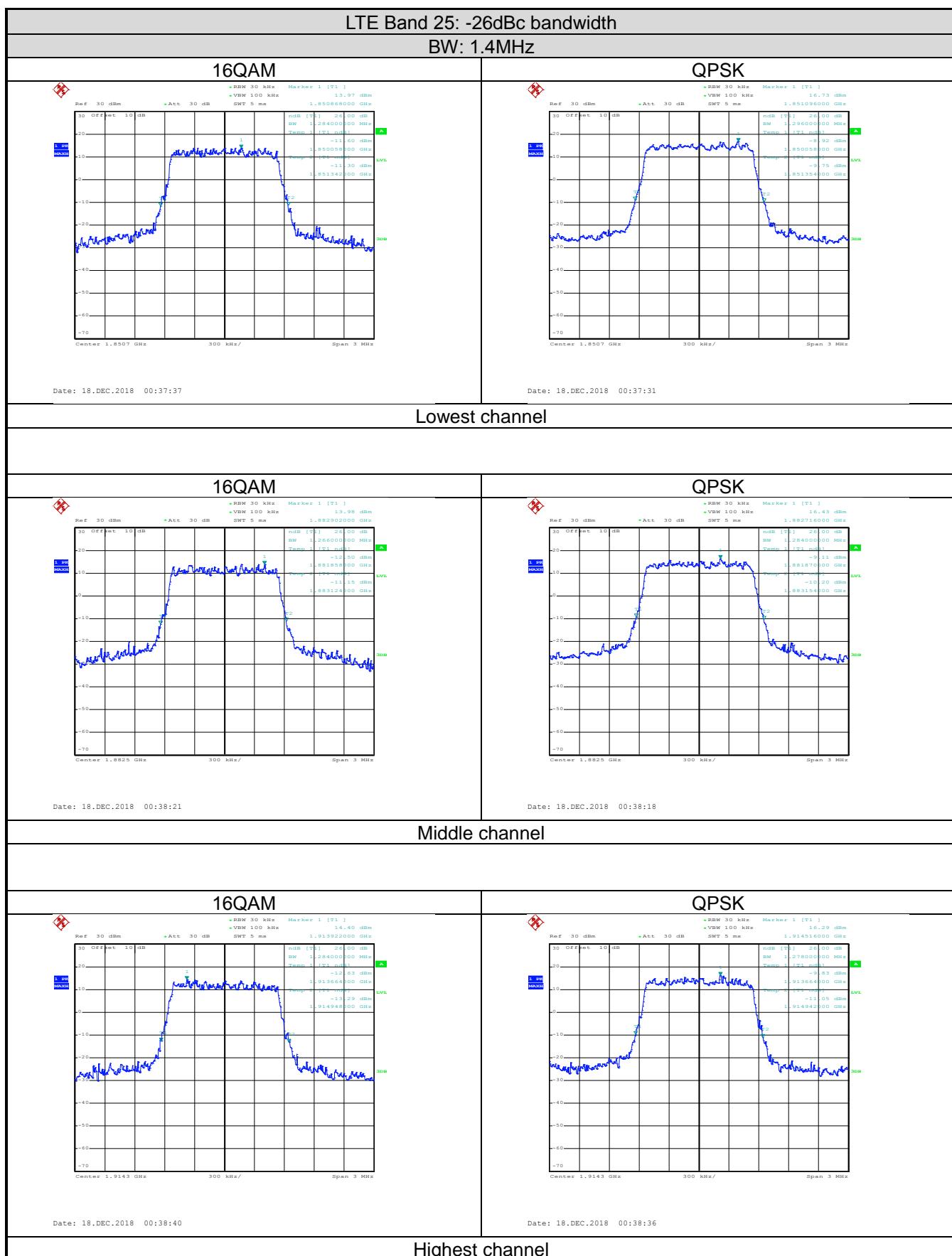


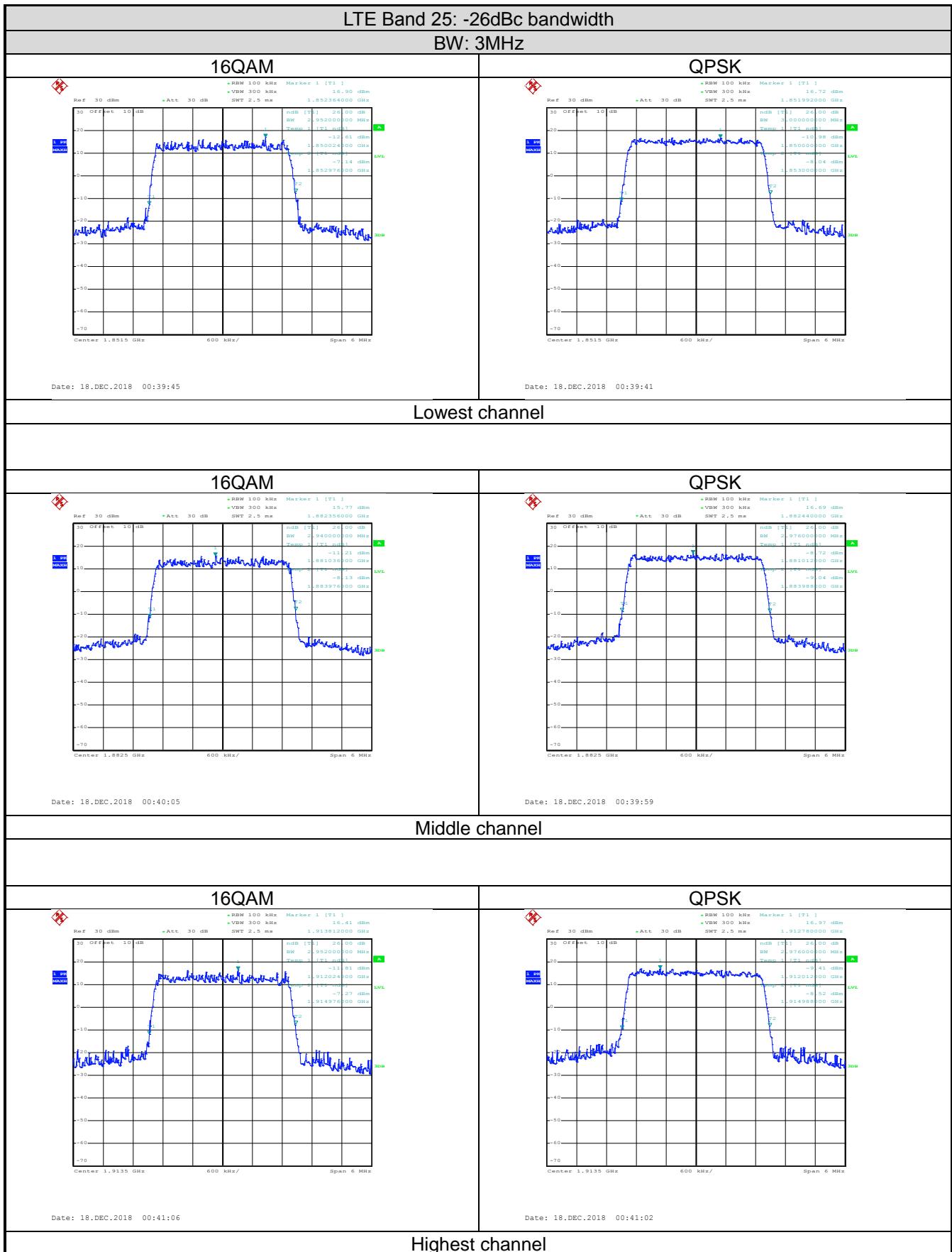


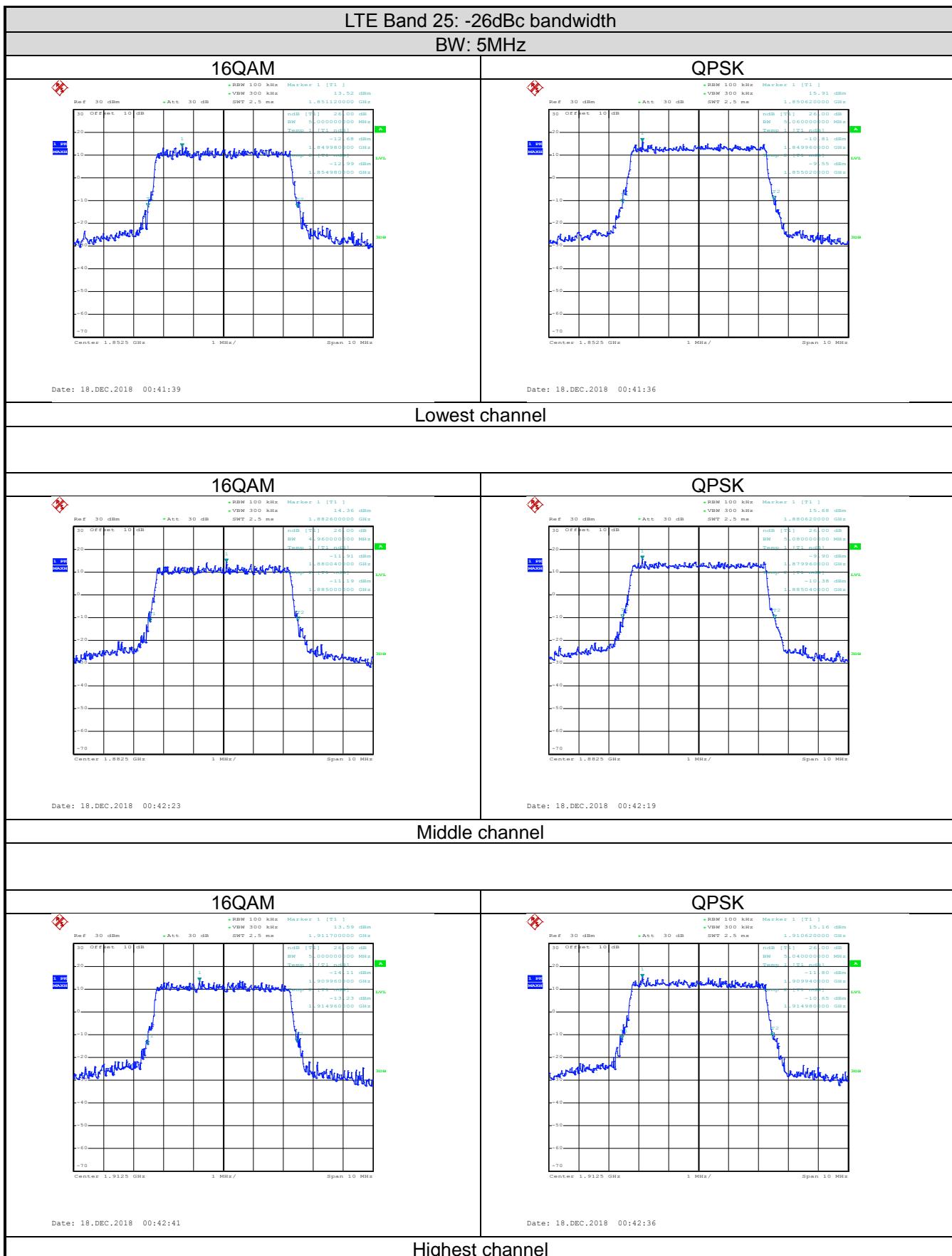


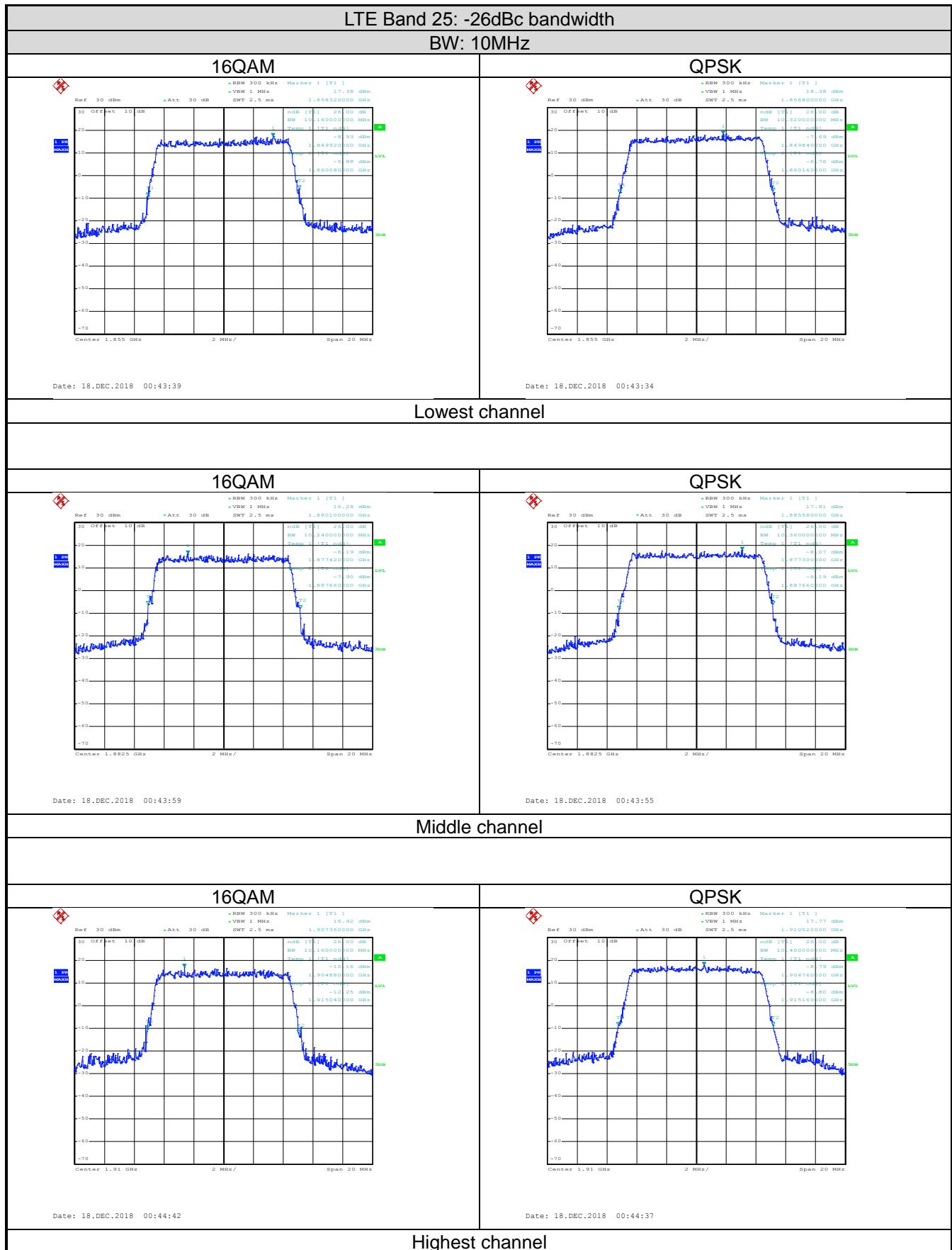


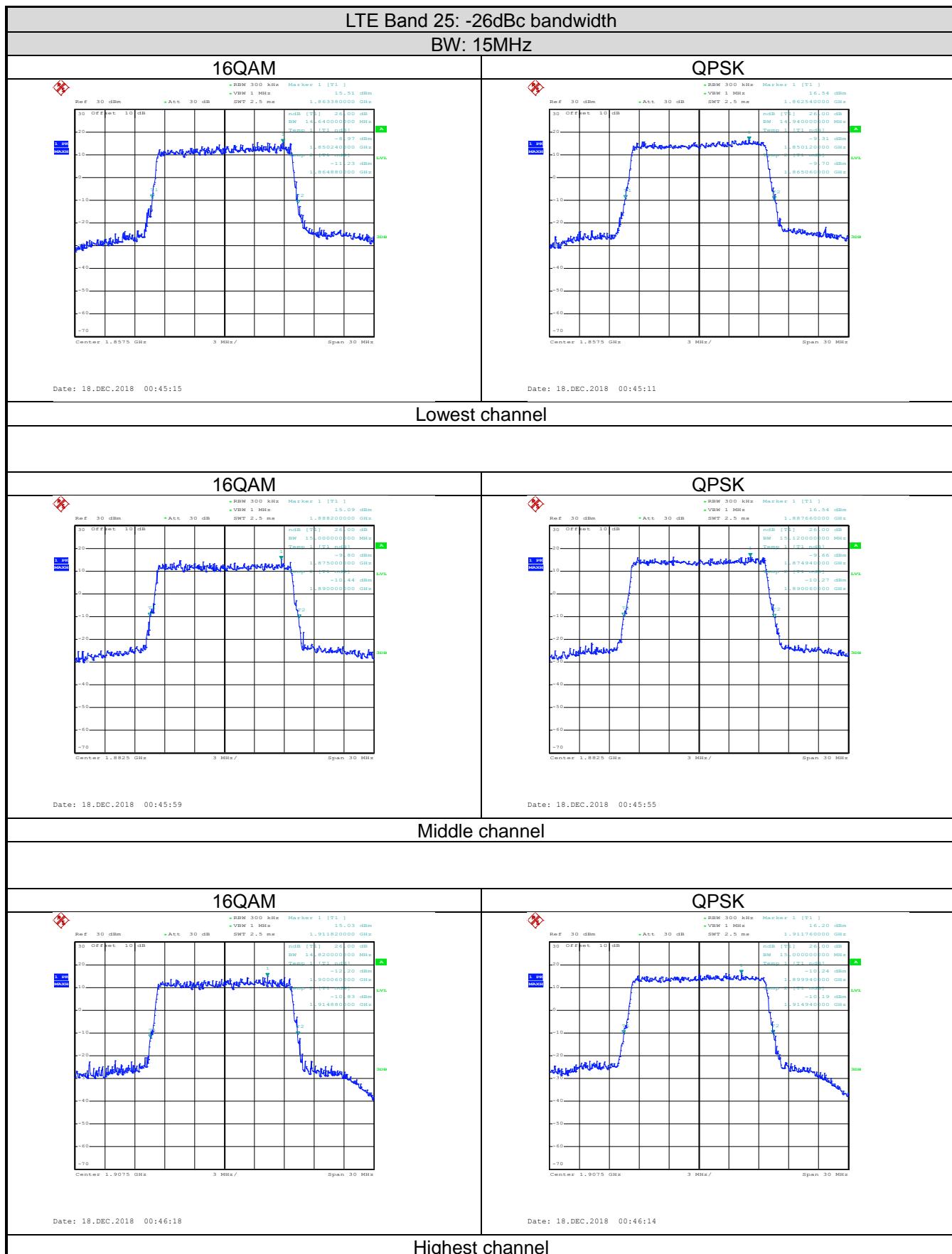


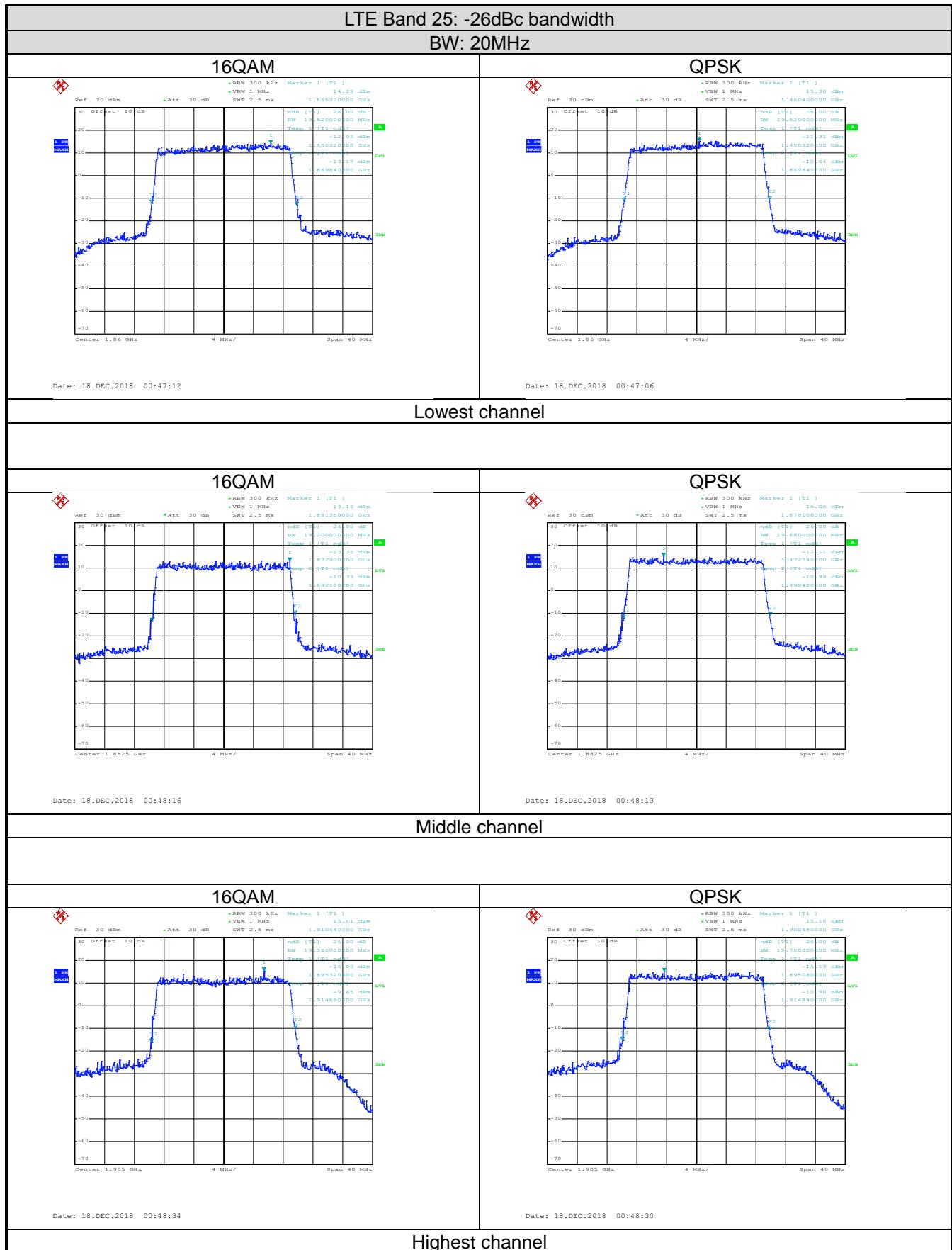




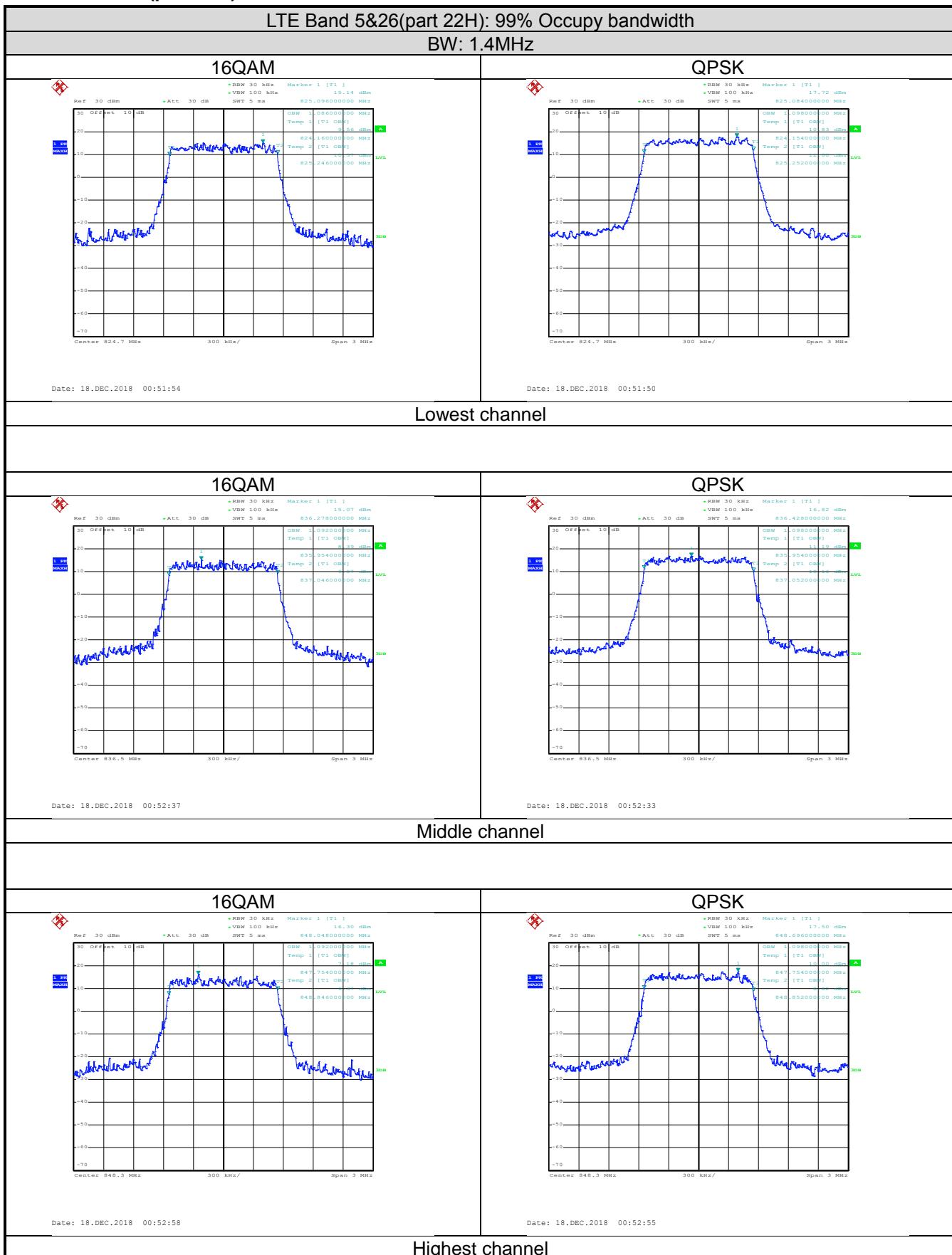


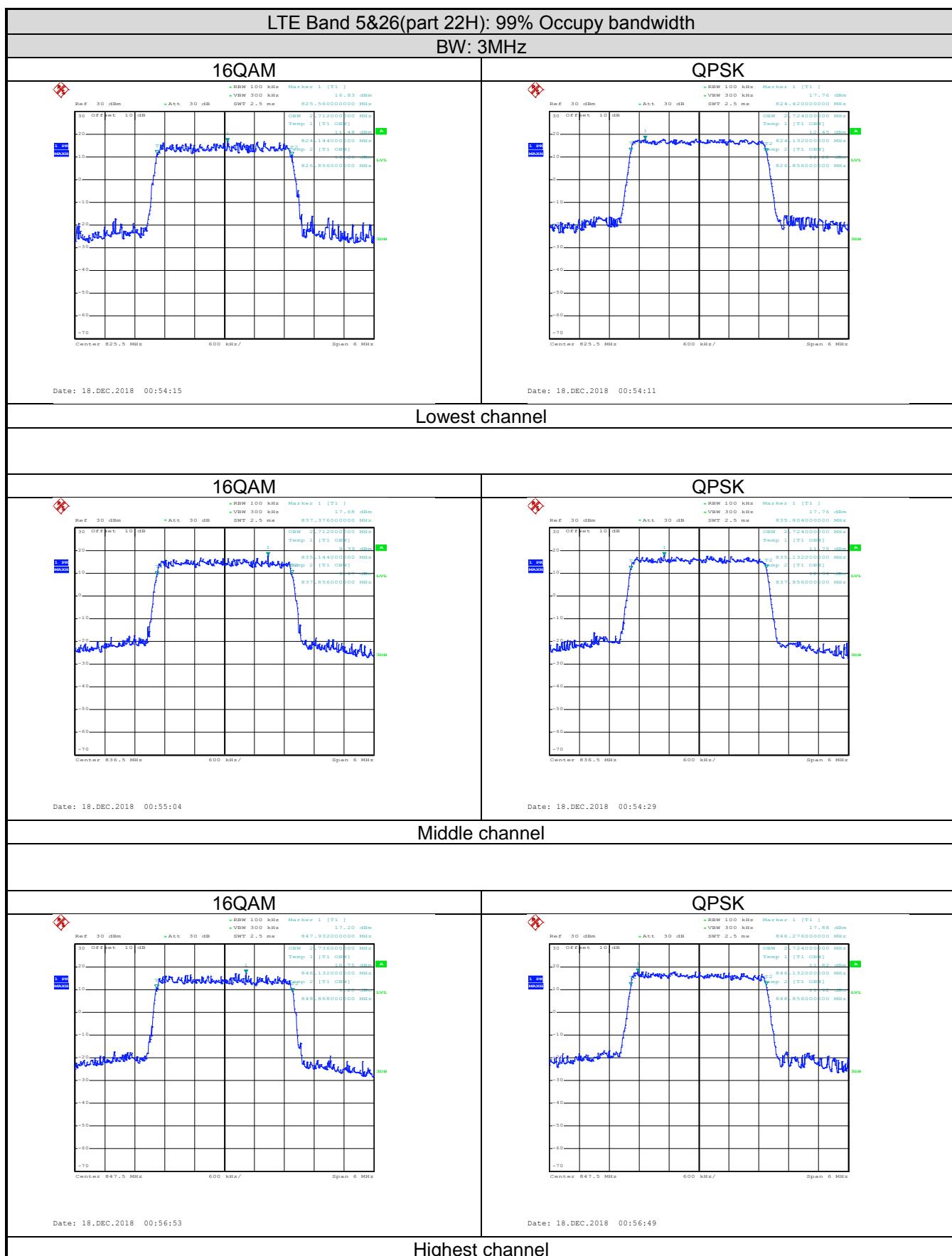


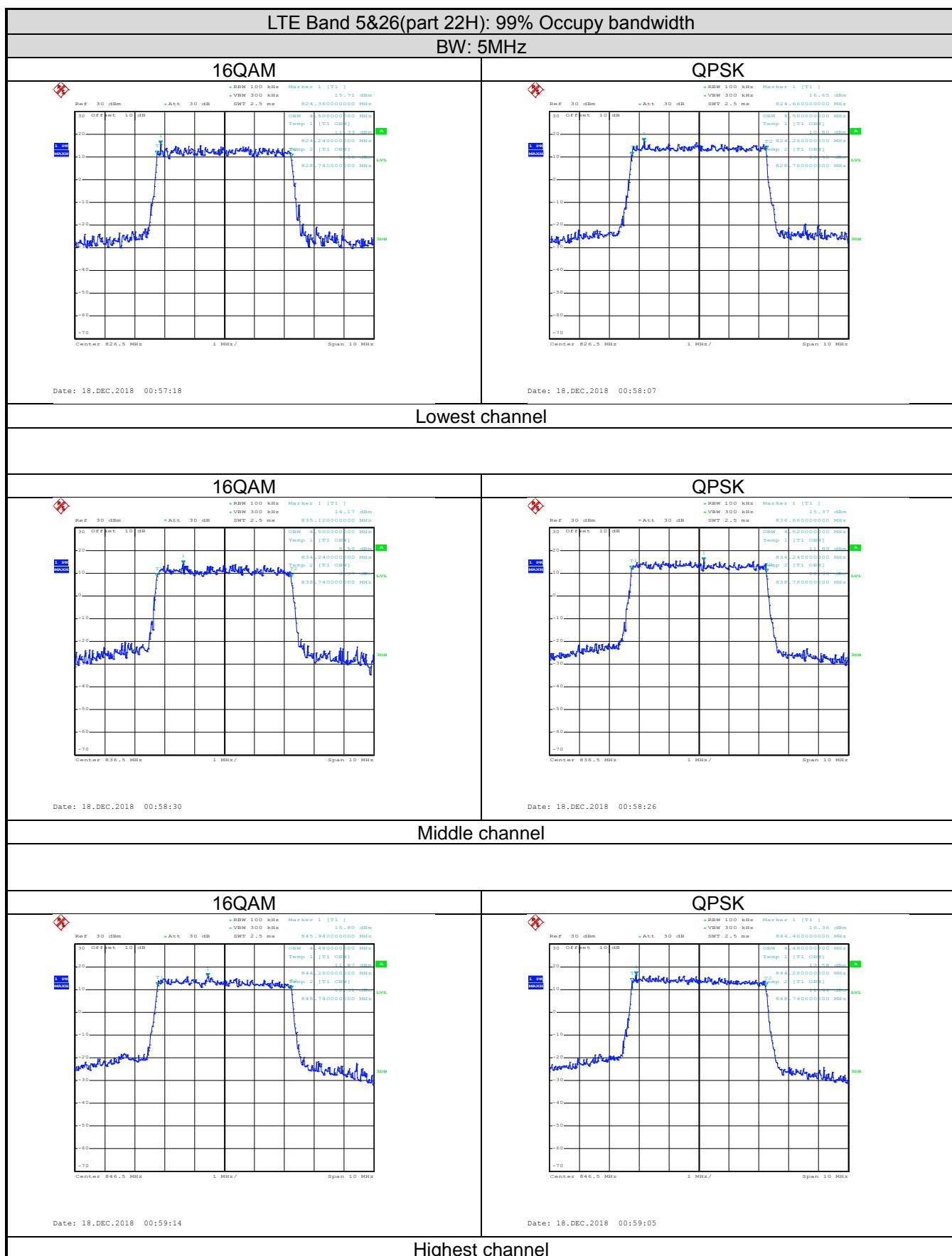


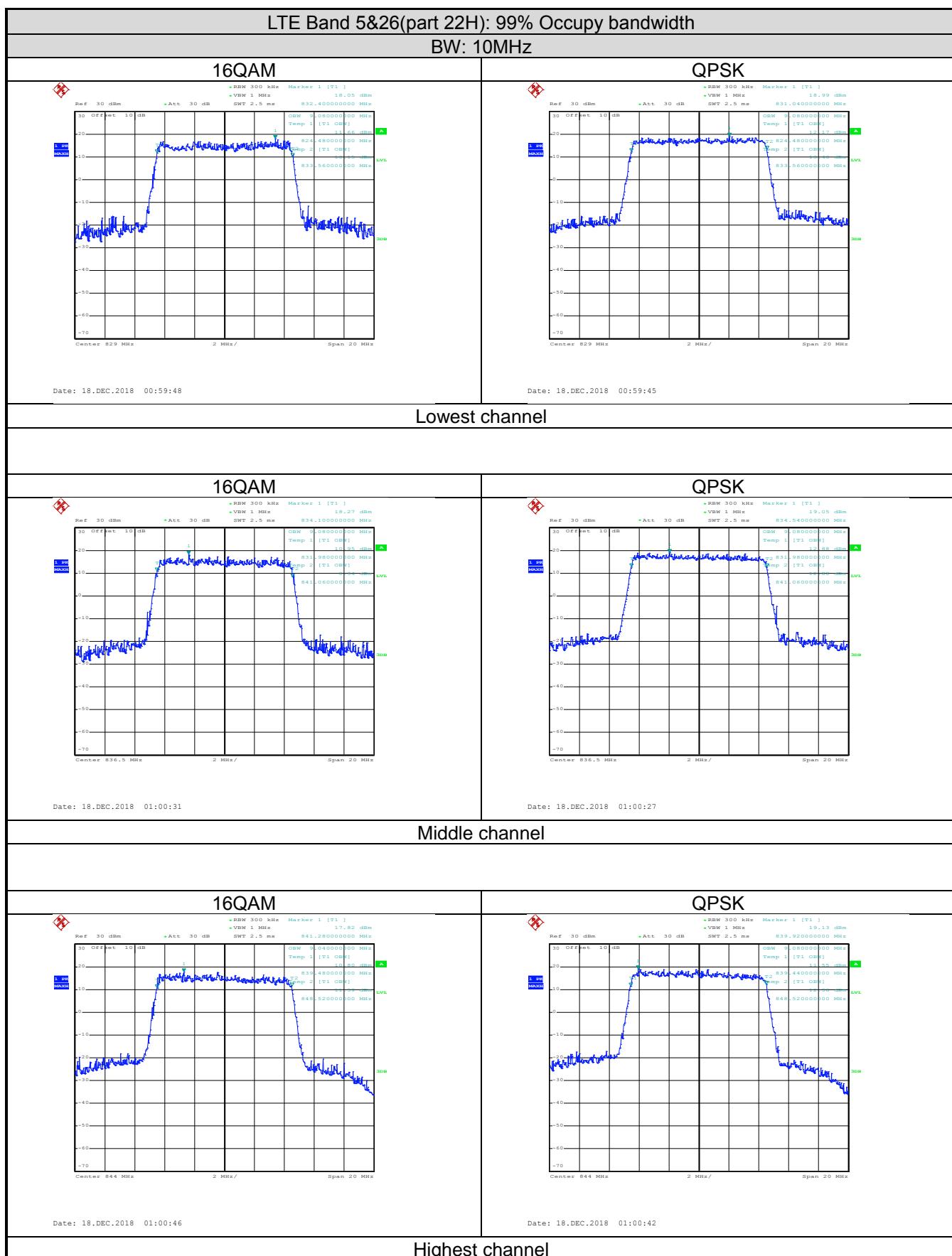


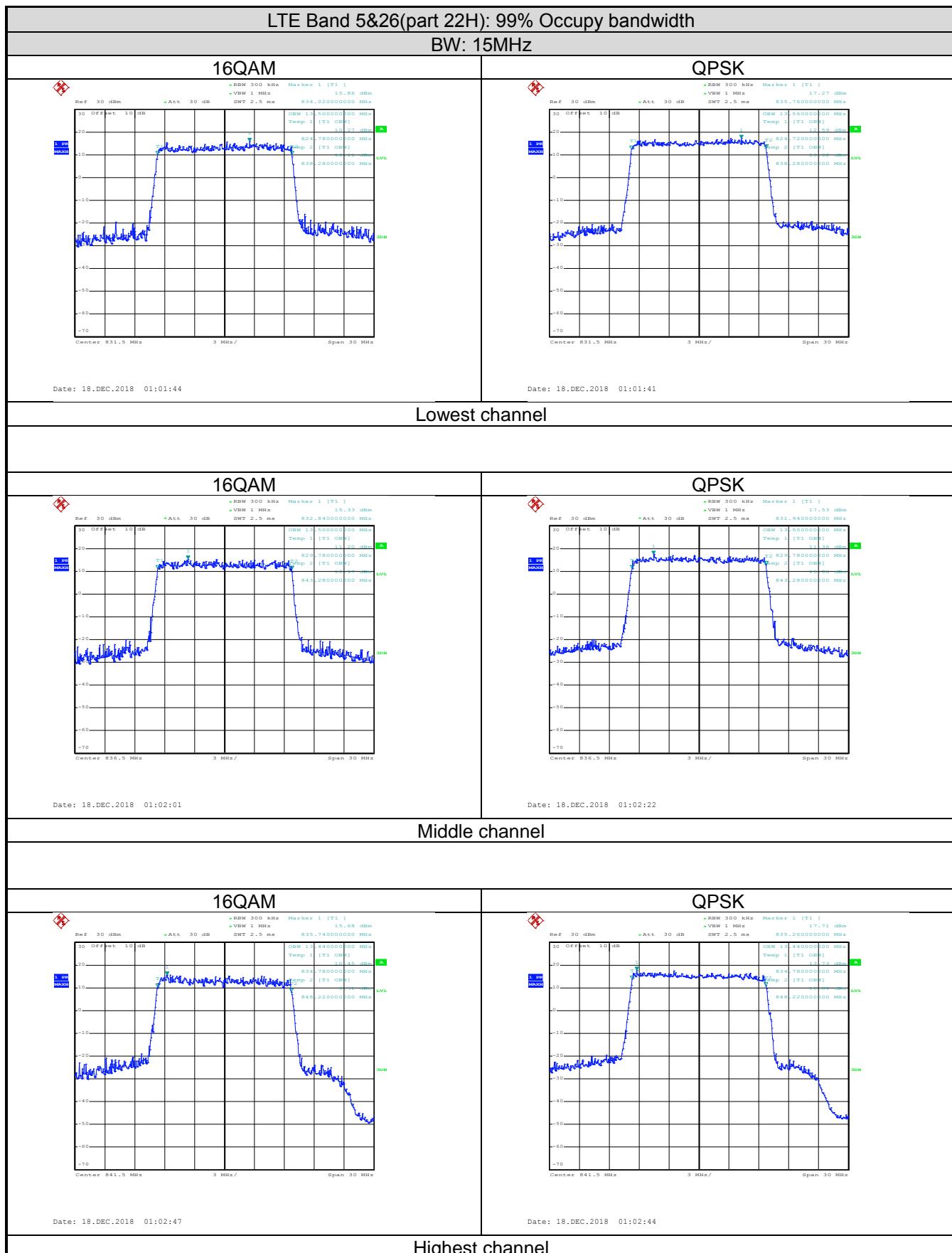
## LTE Band 5&amp;26(part 22H):

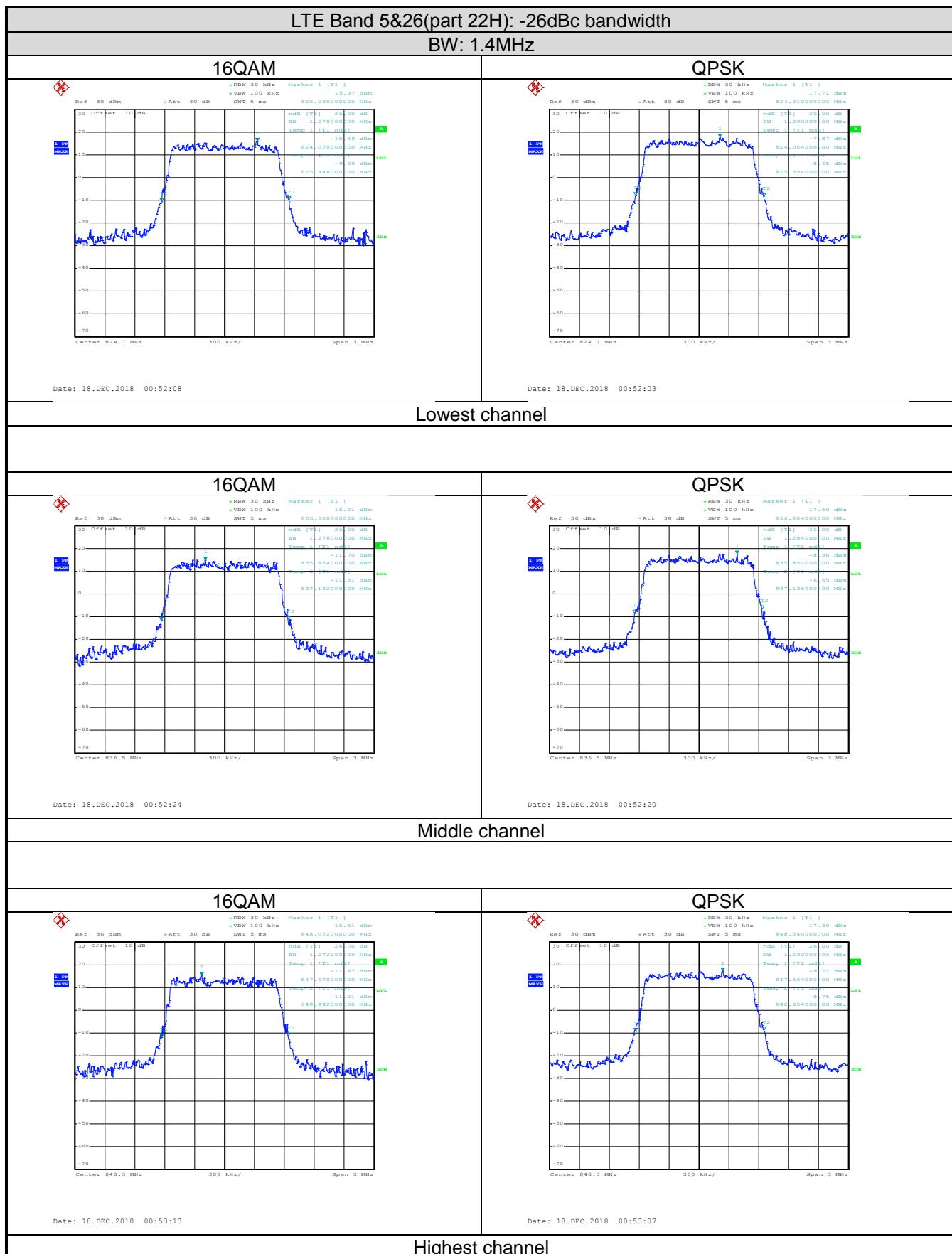


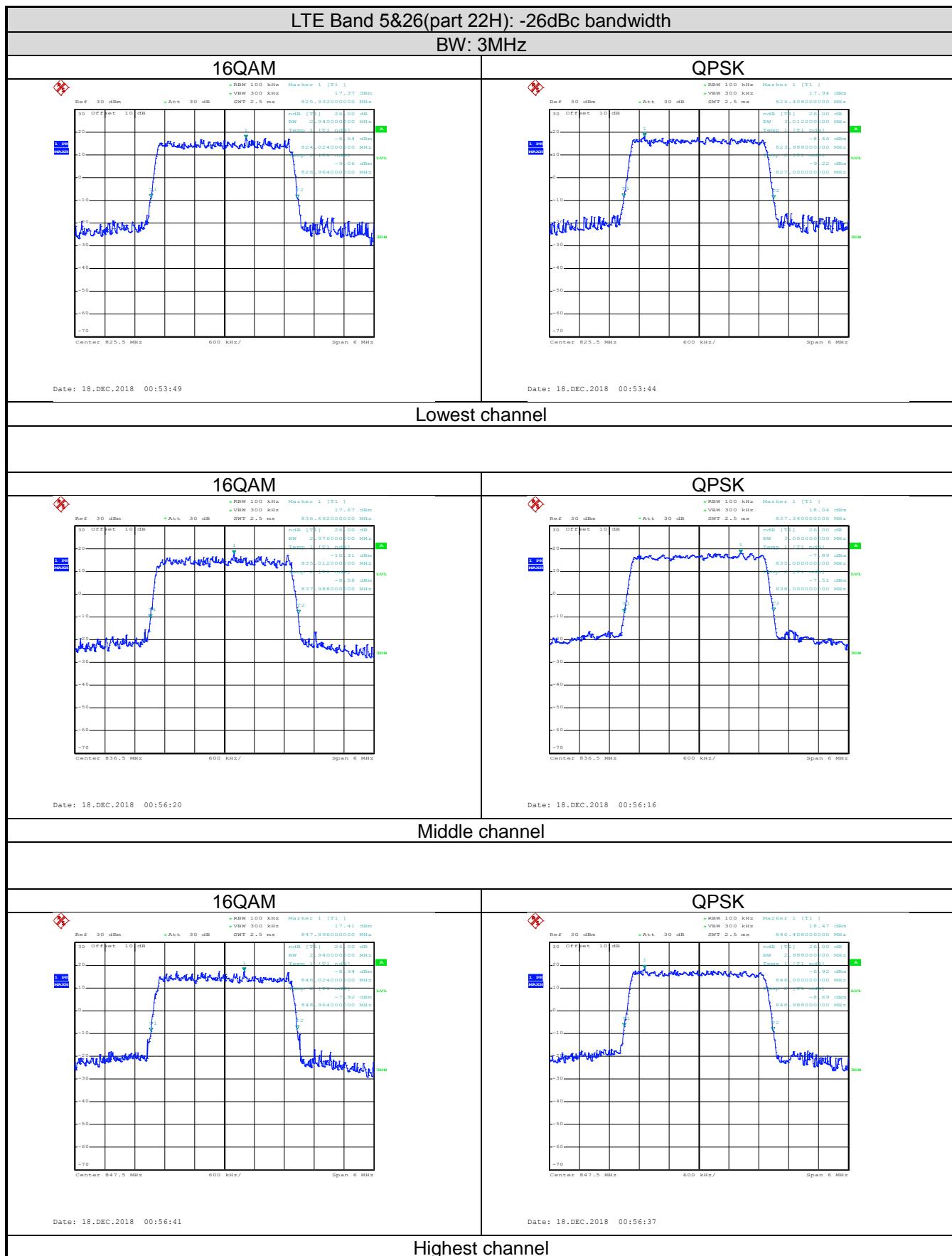


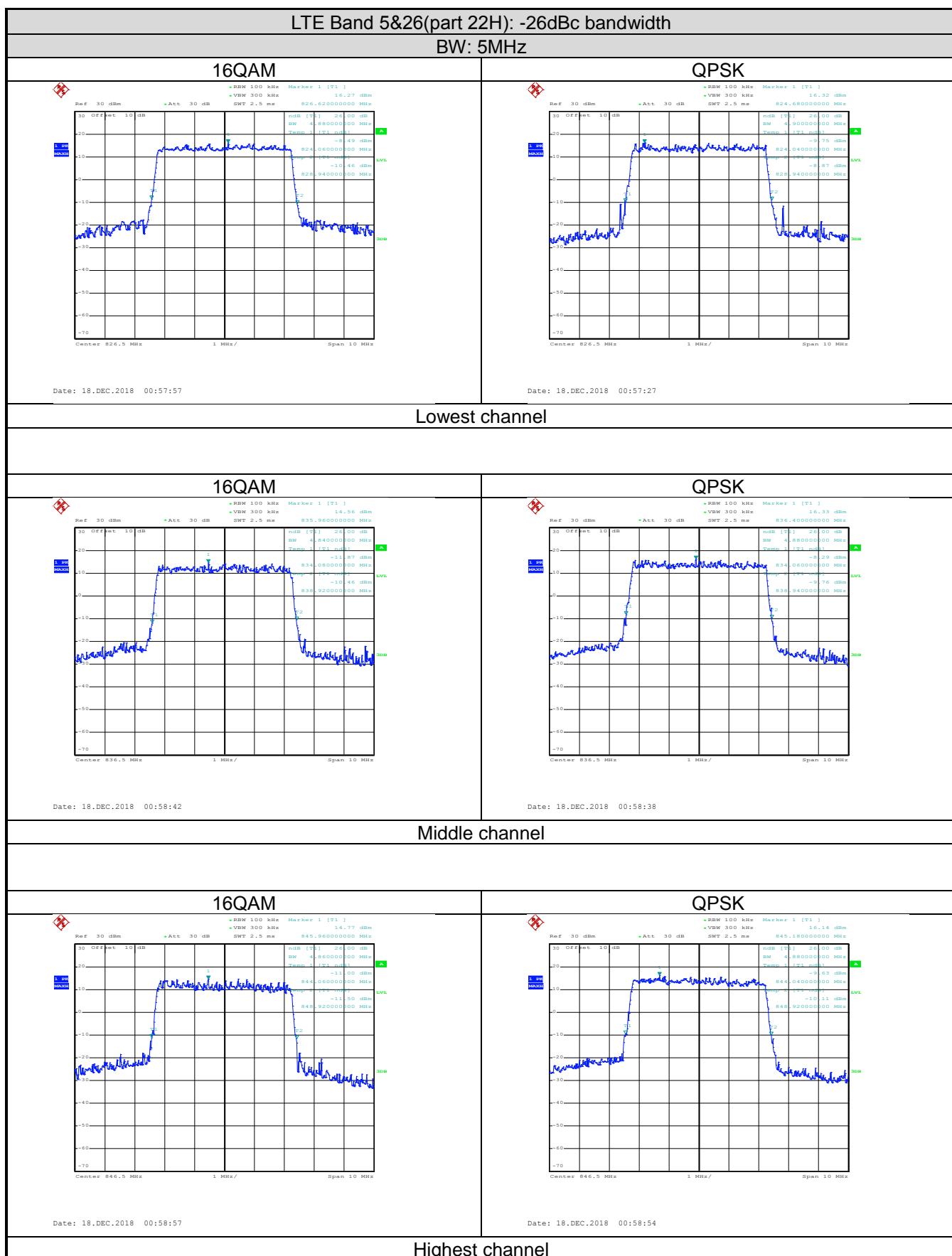


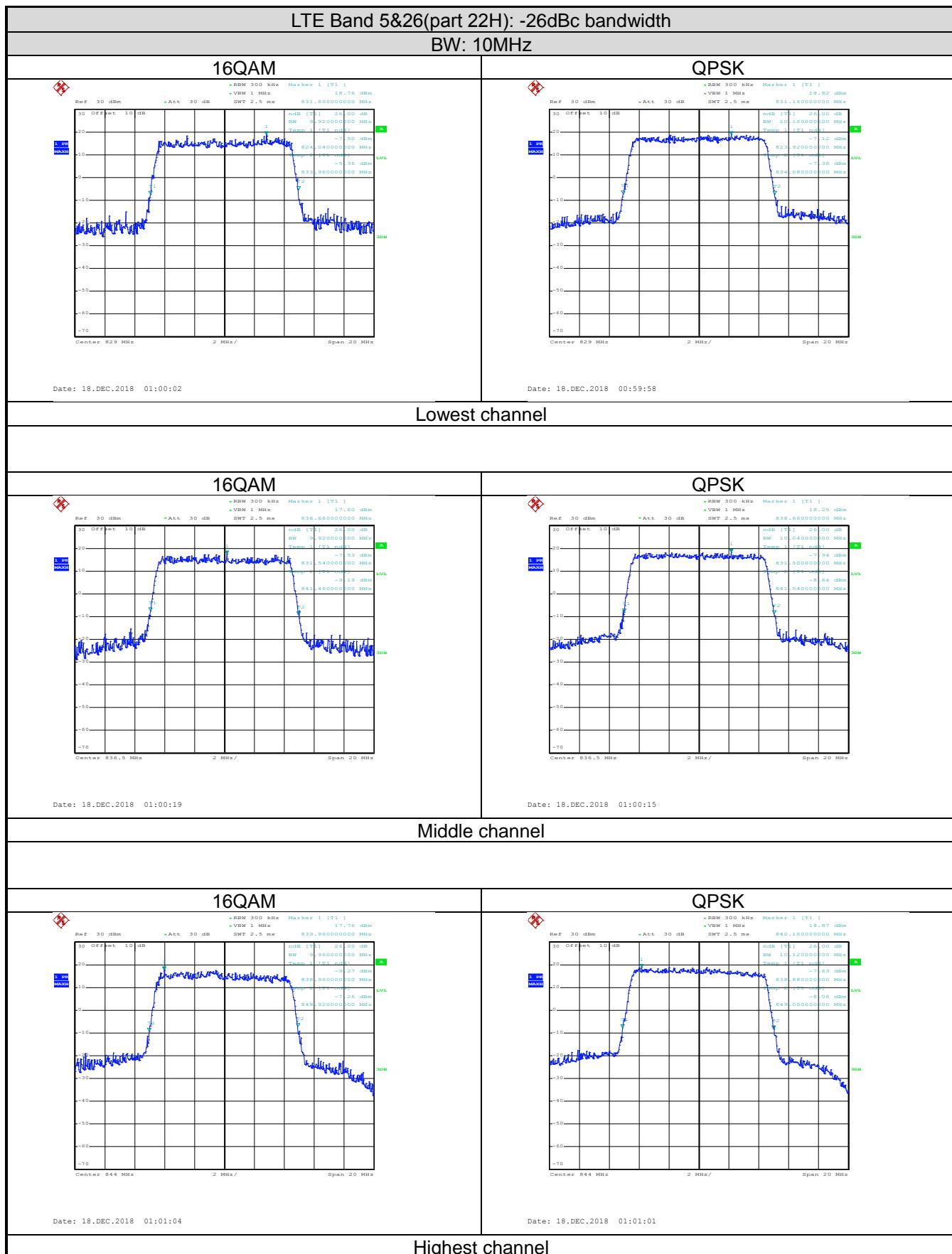


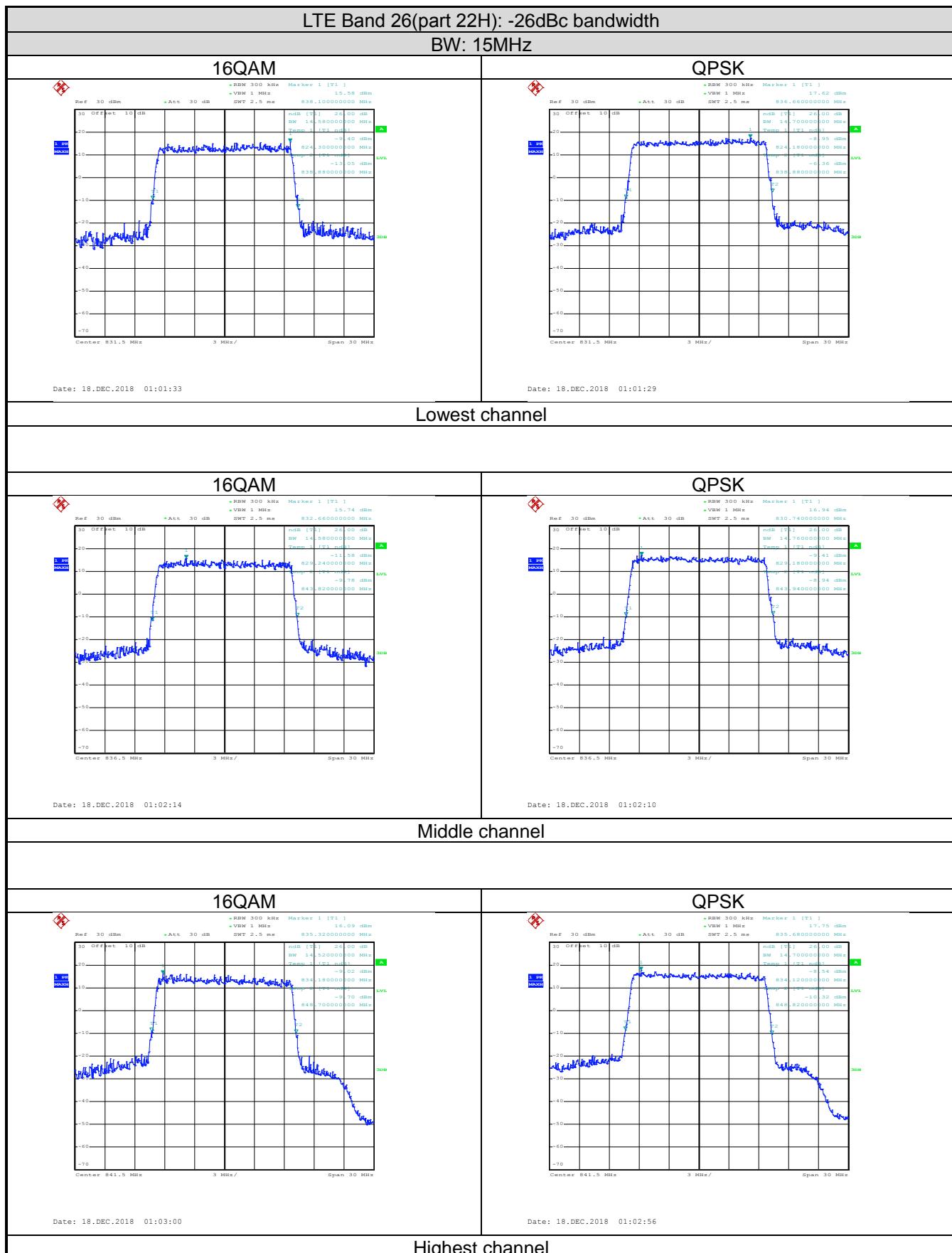




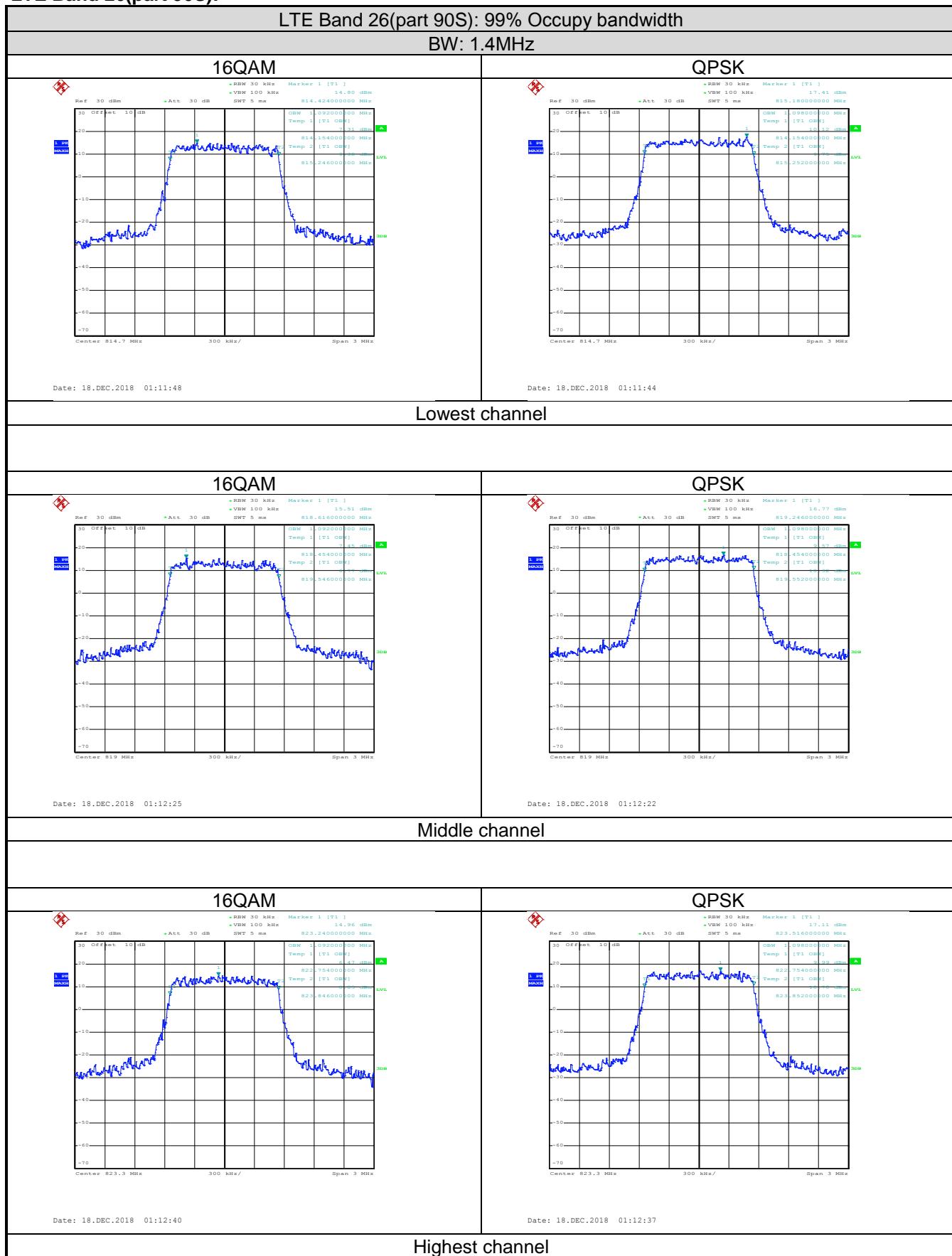


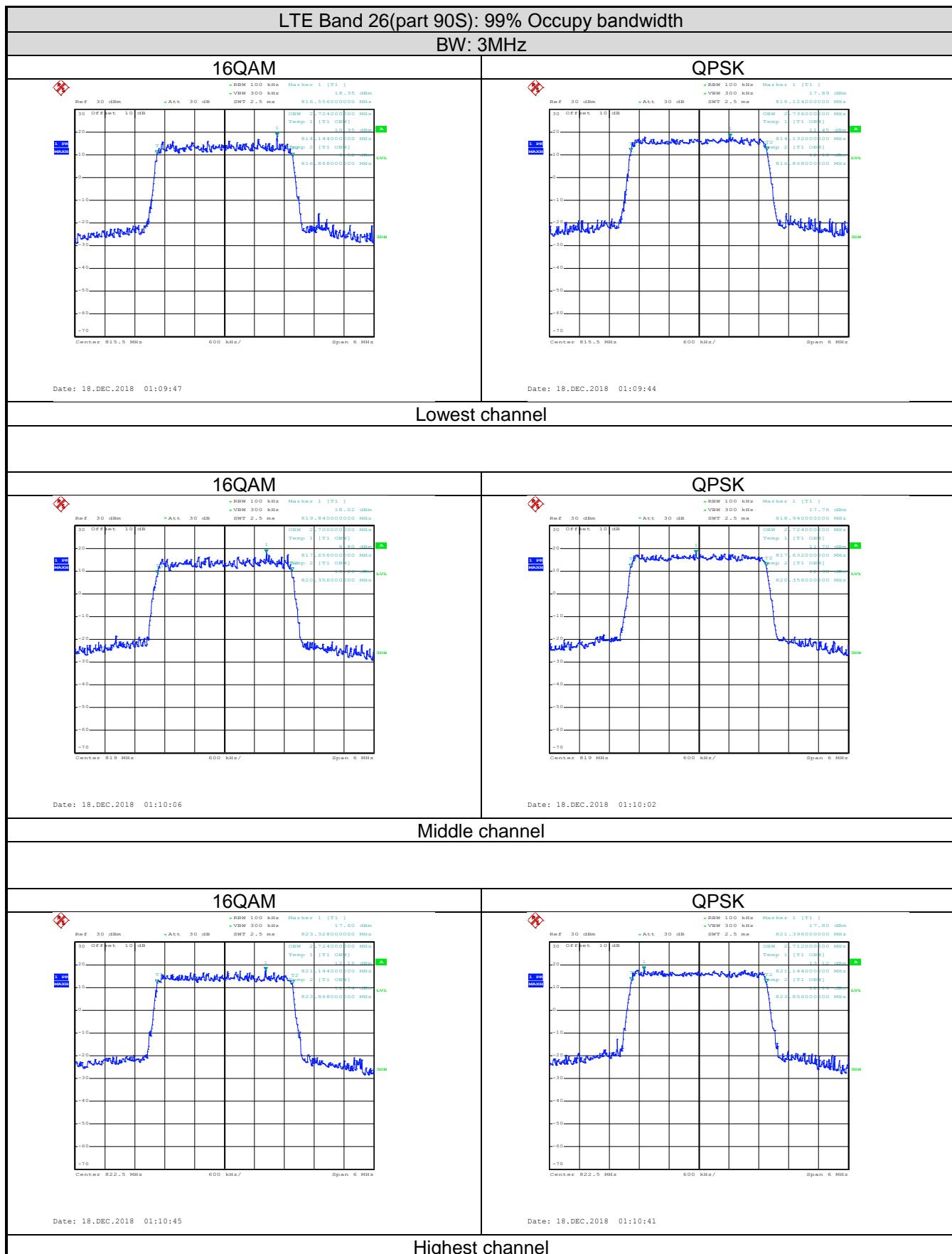


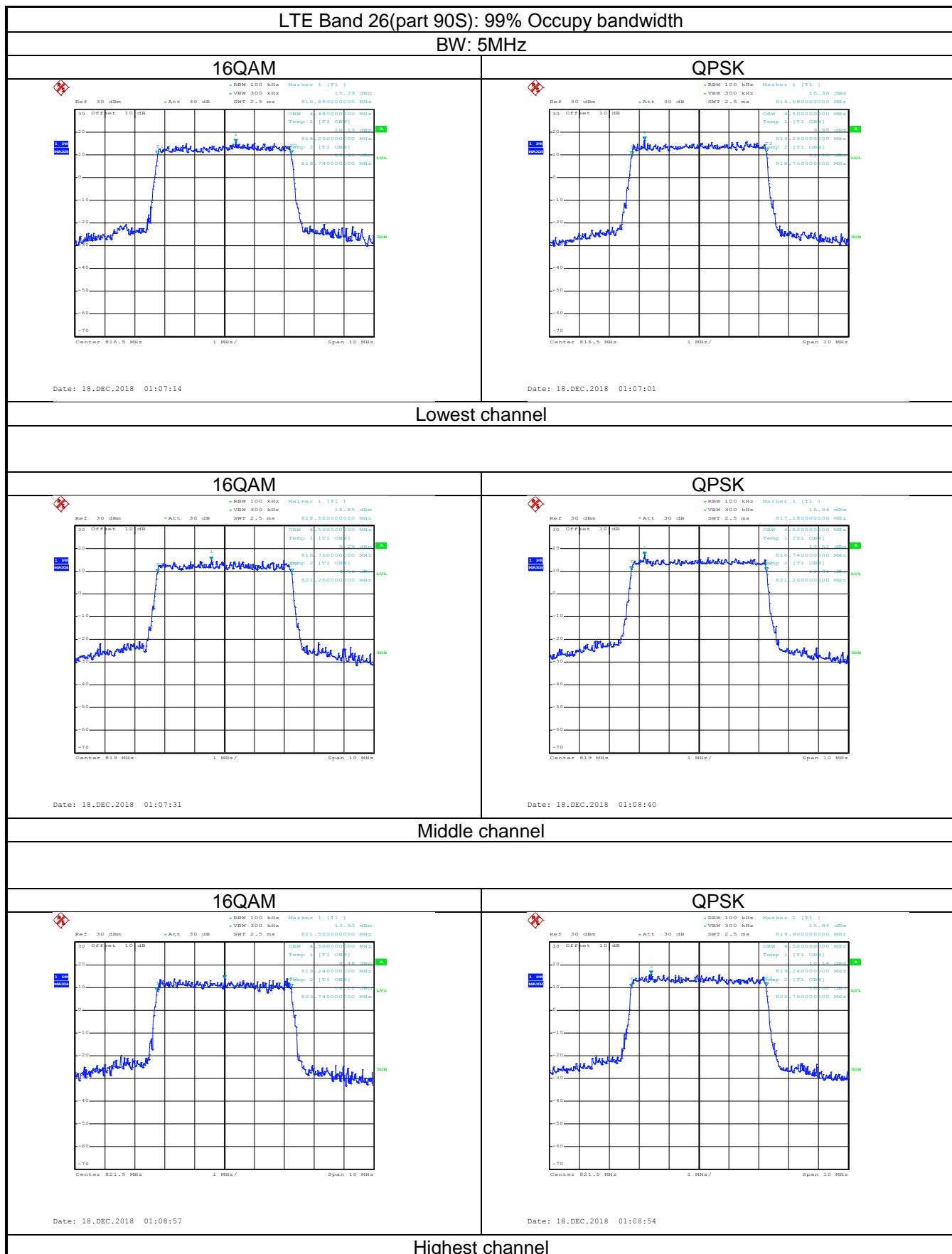


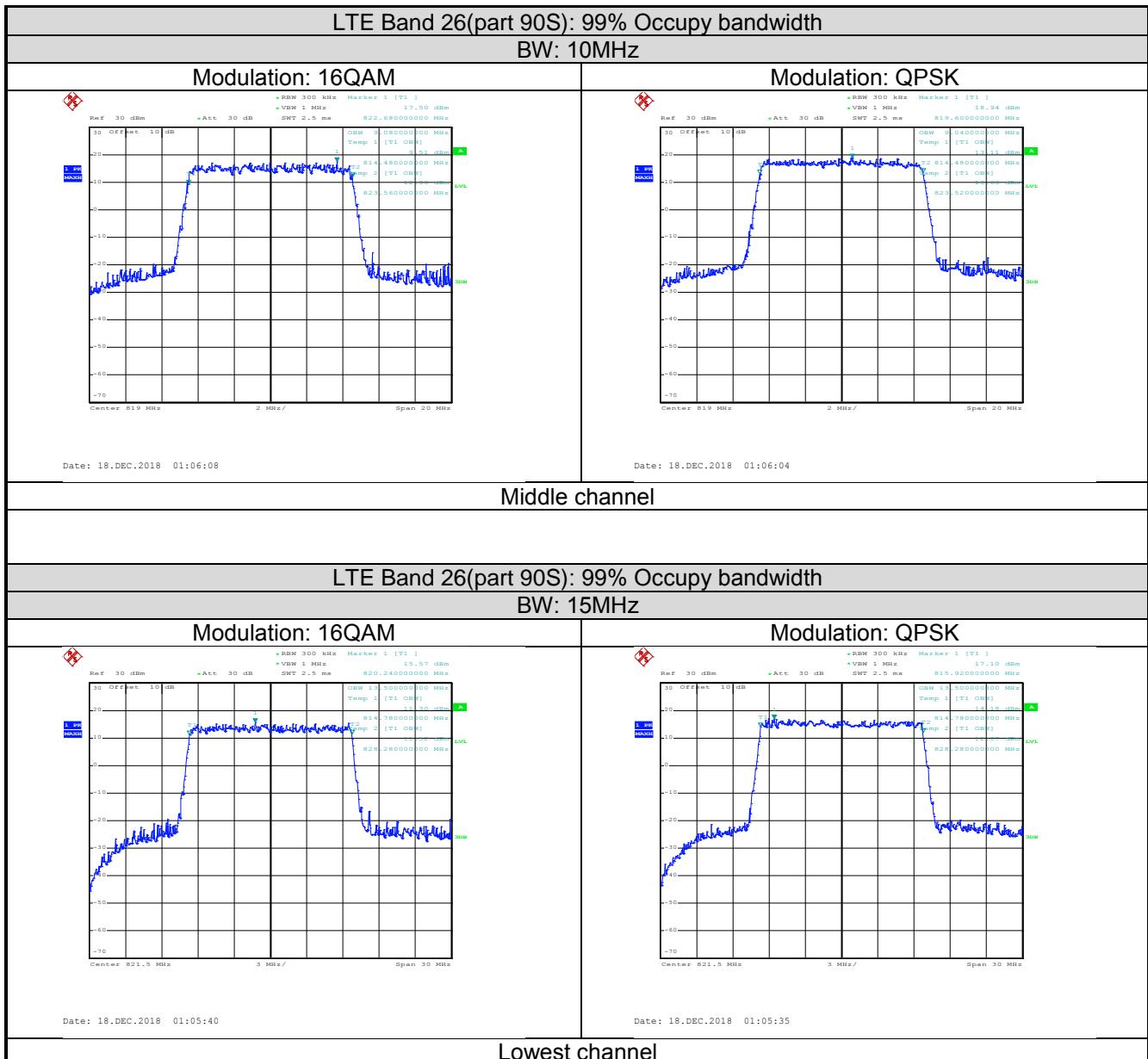


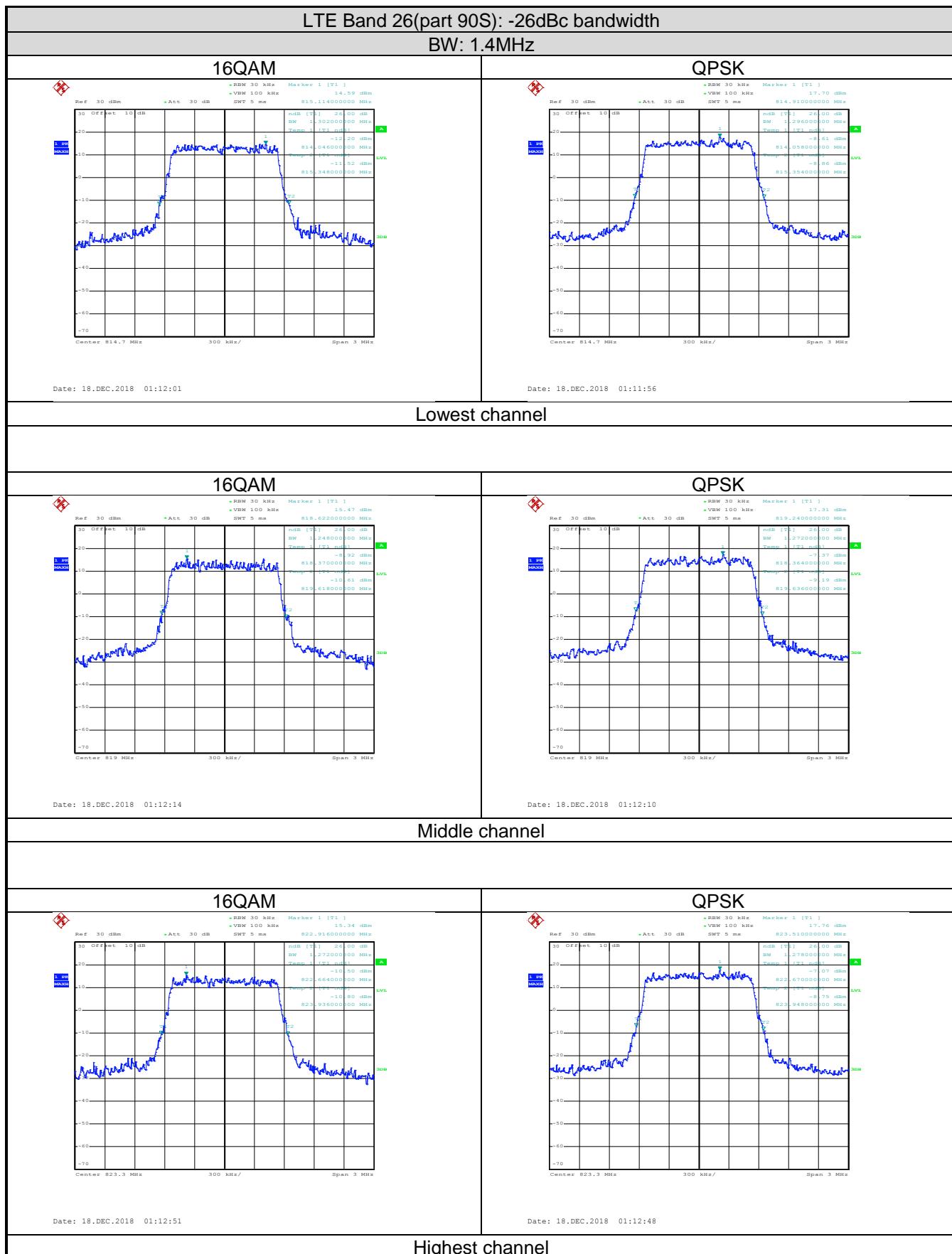
## LTE Band 26(part 90S):

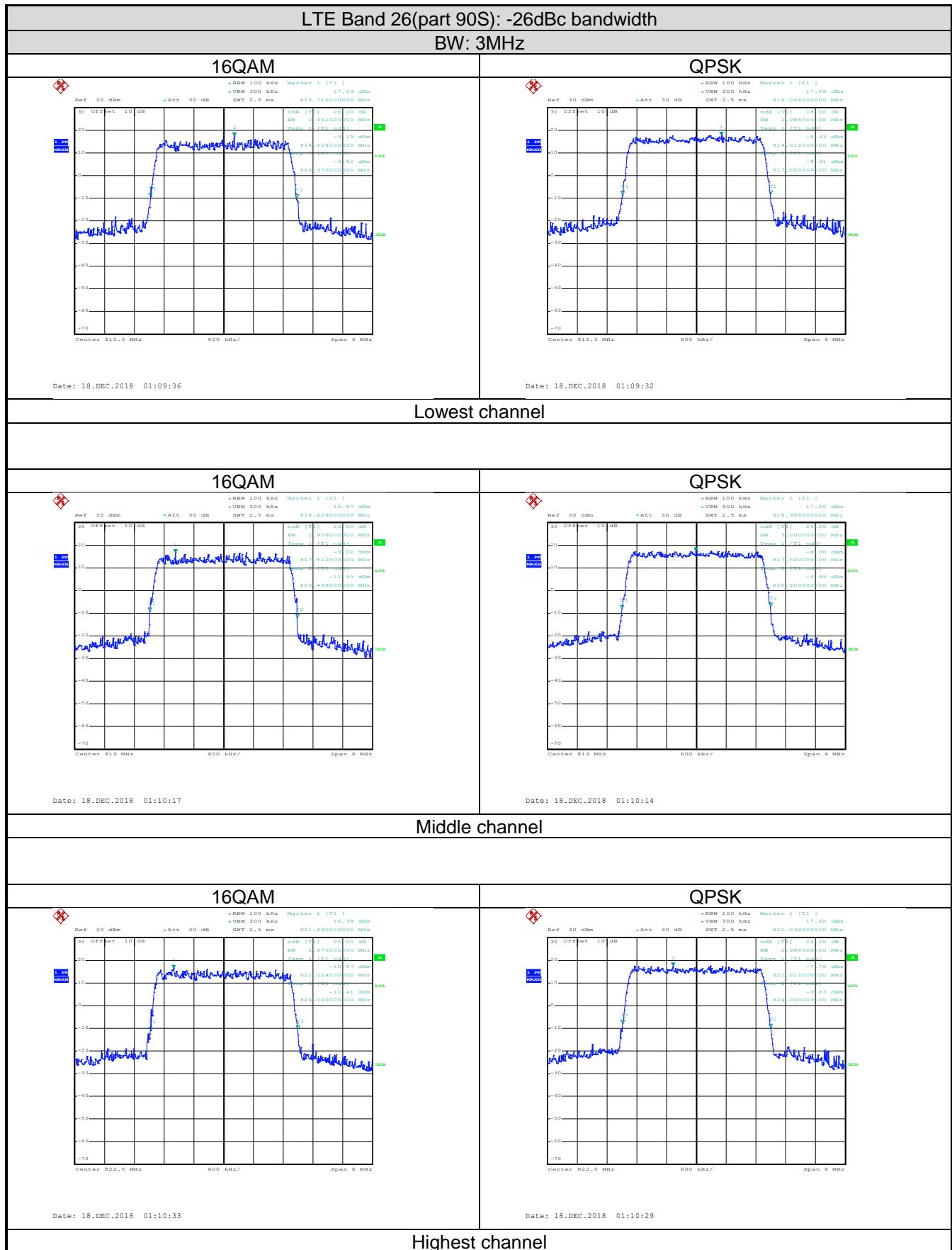


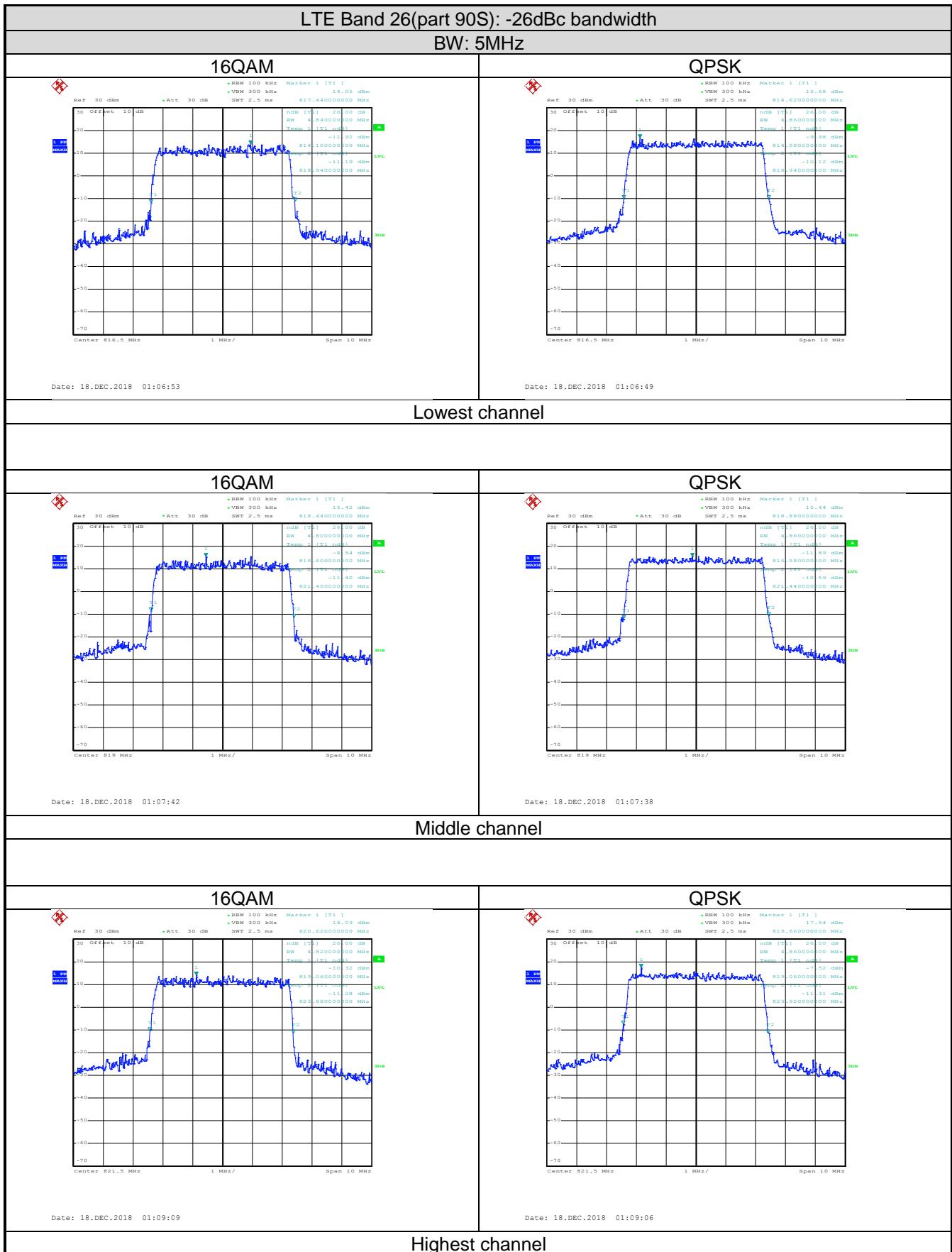


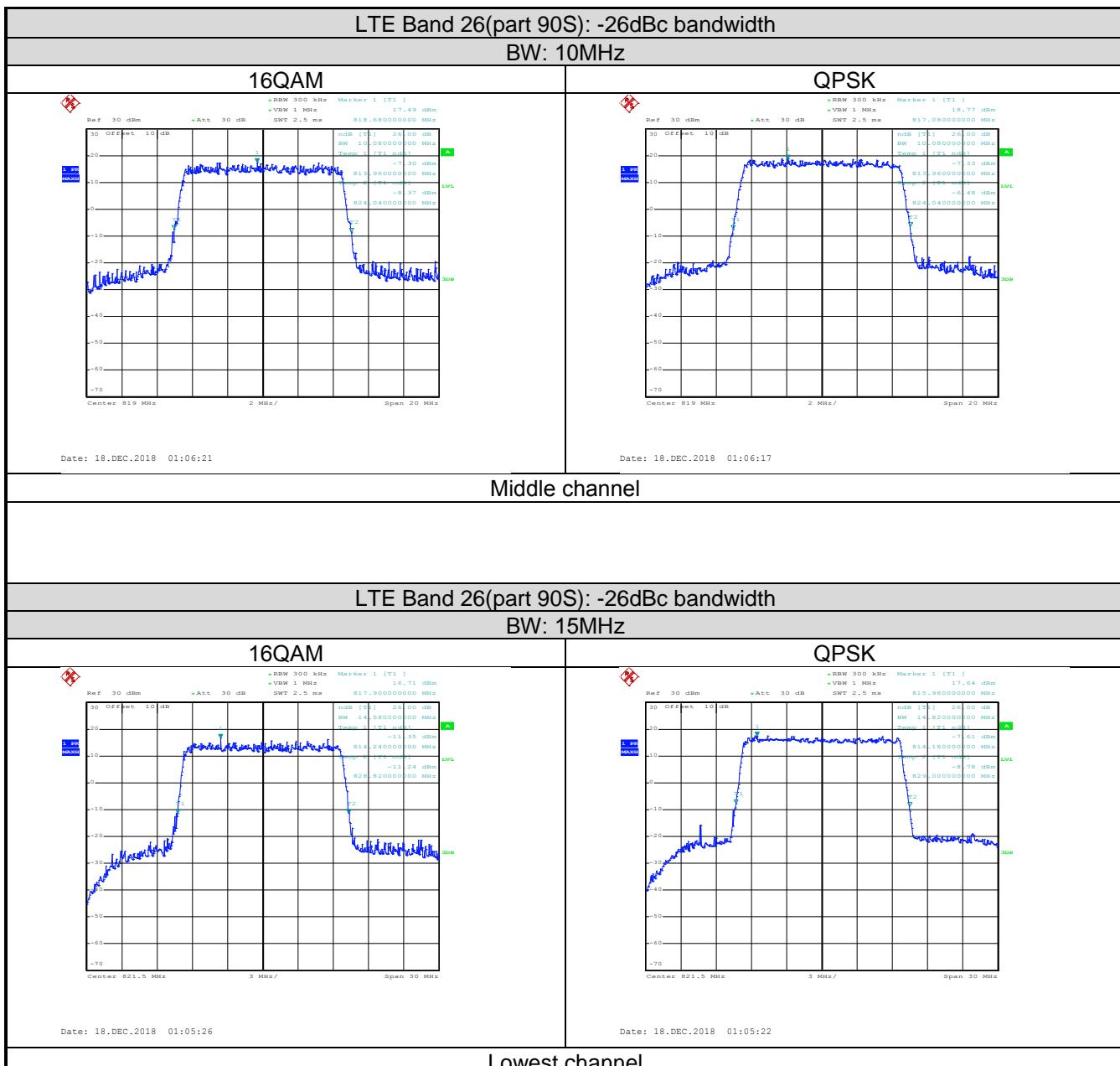




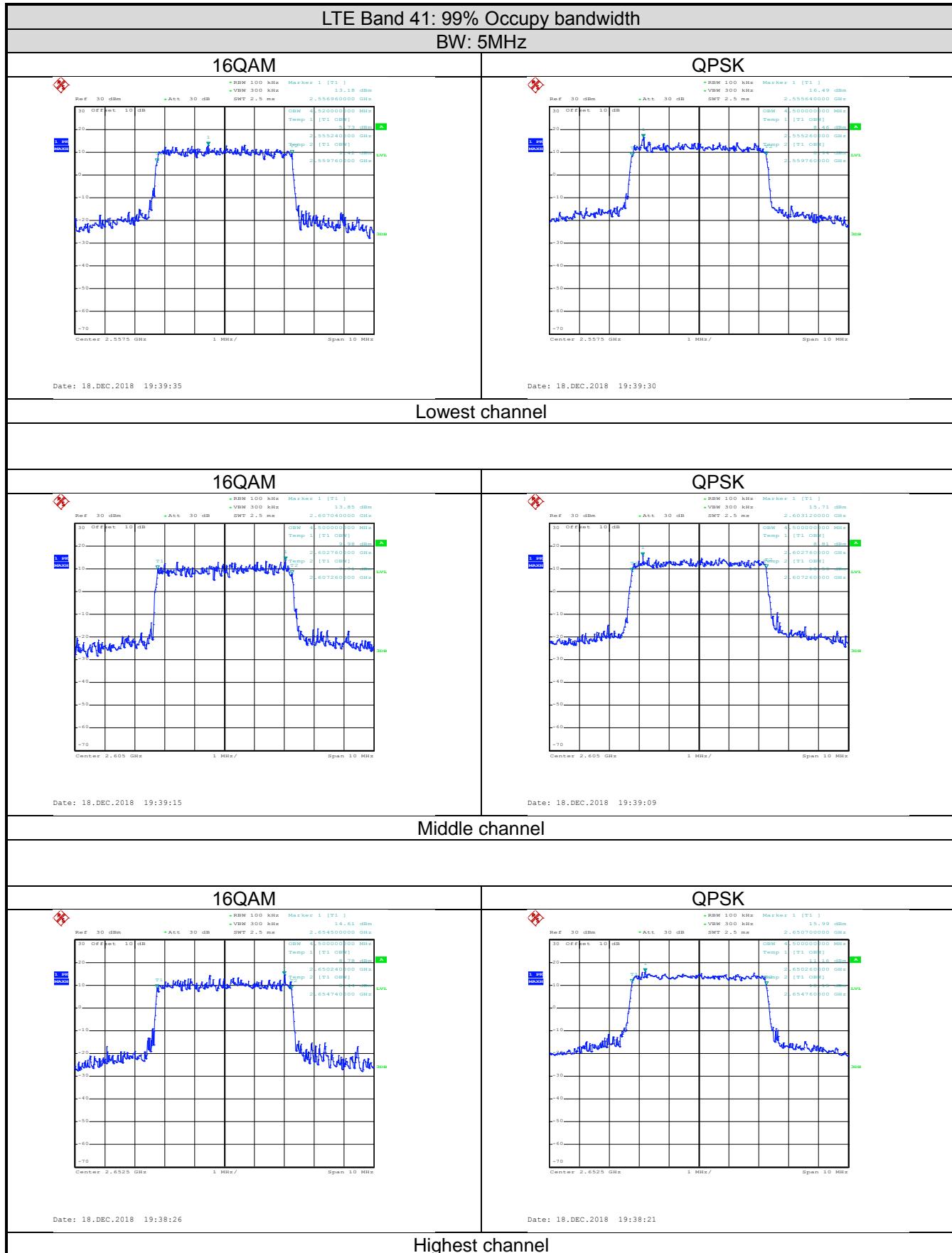


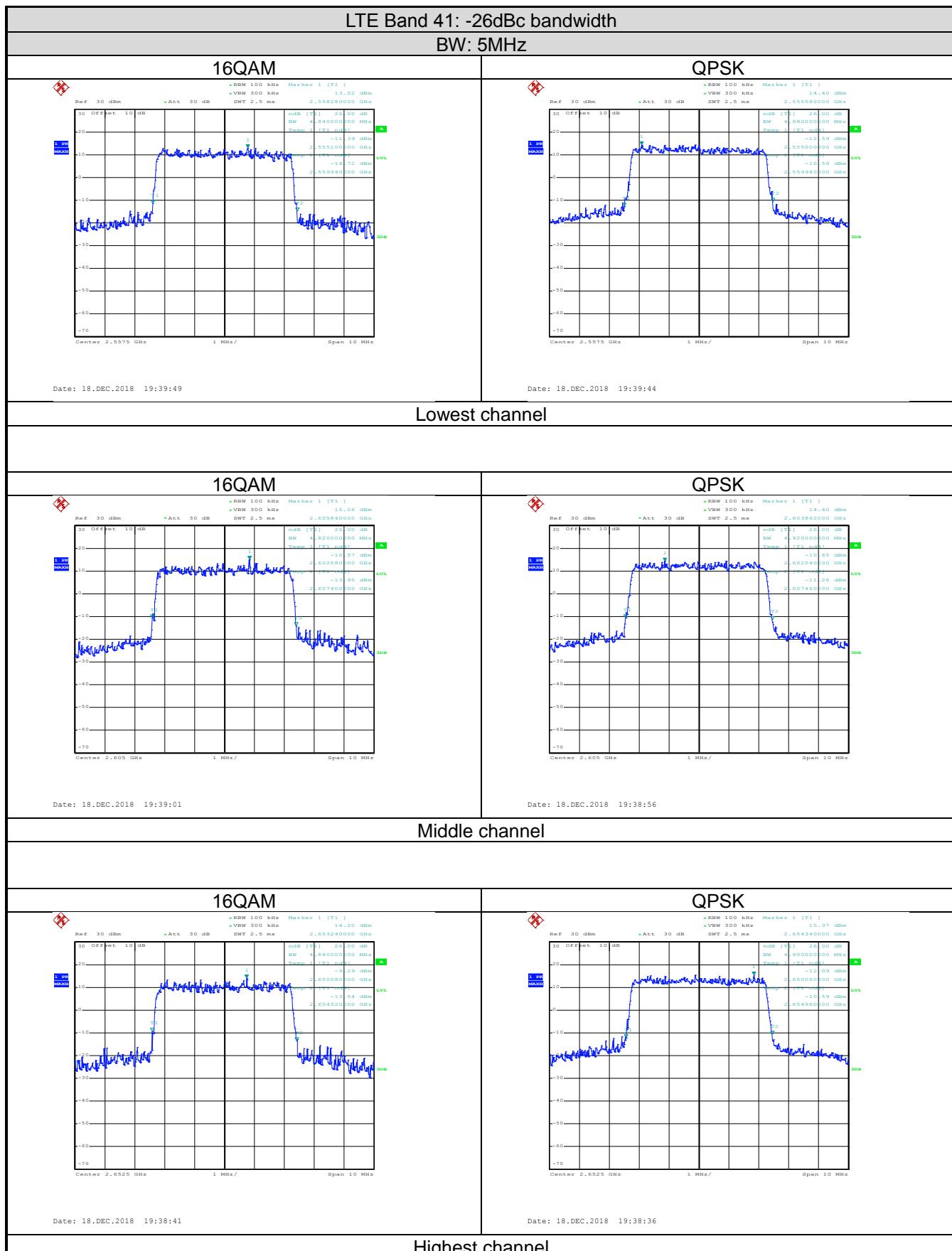






LTE-Band 41 part:

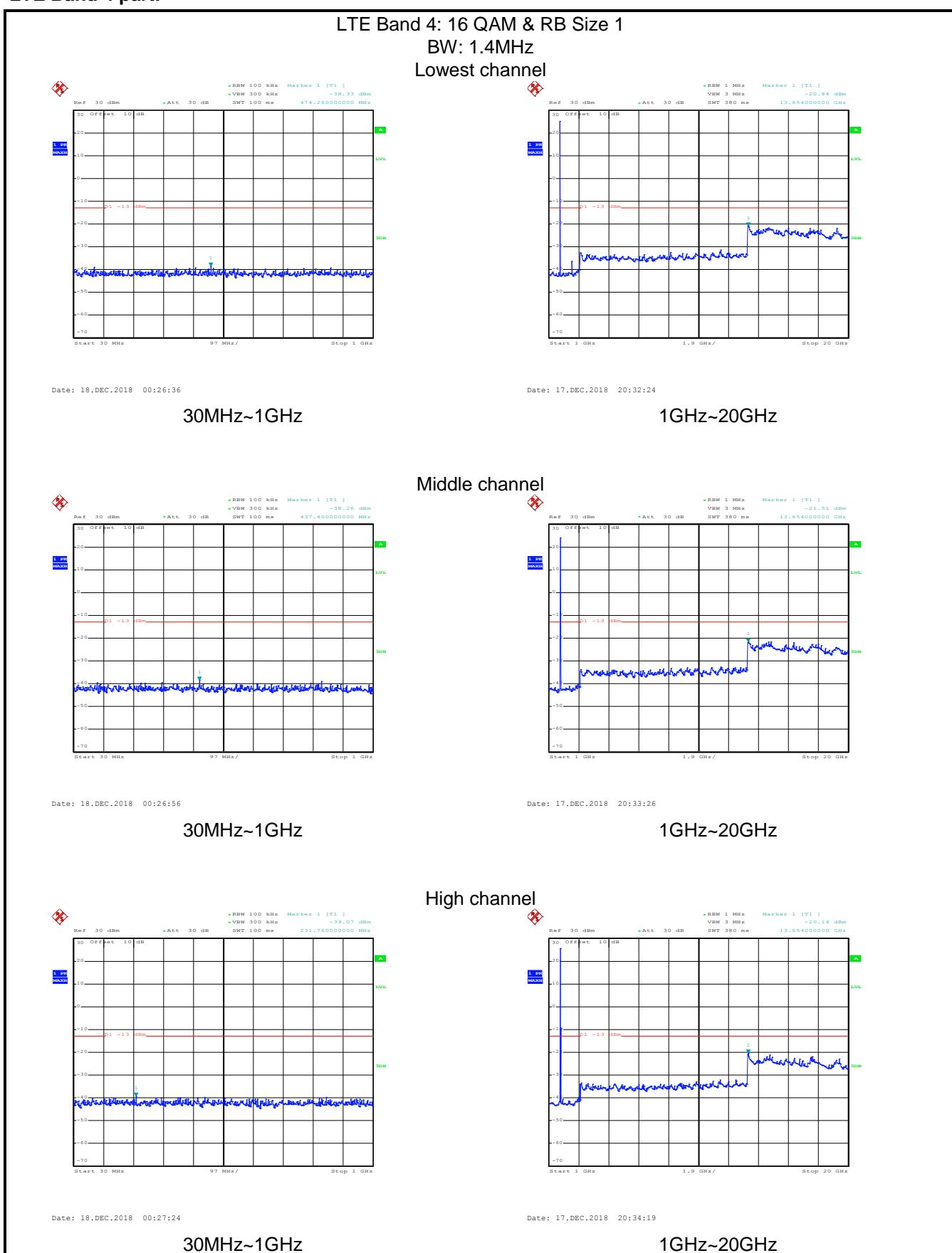


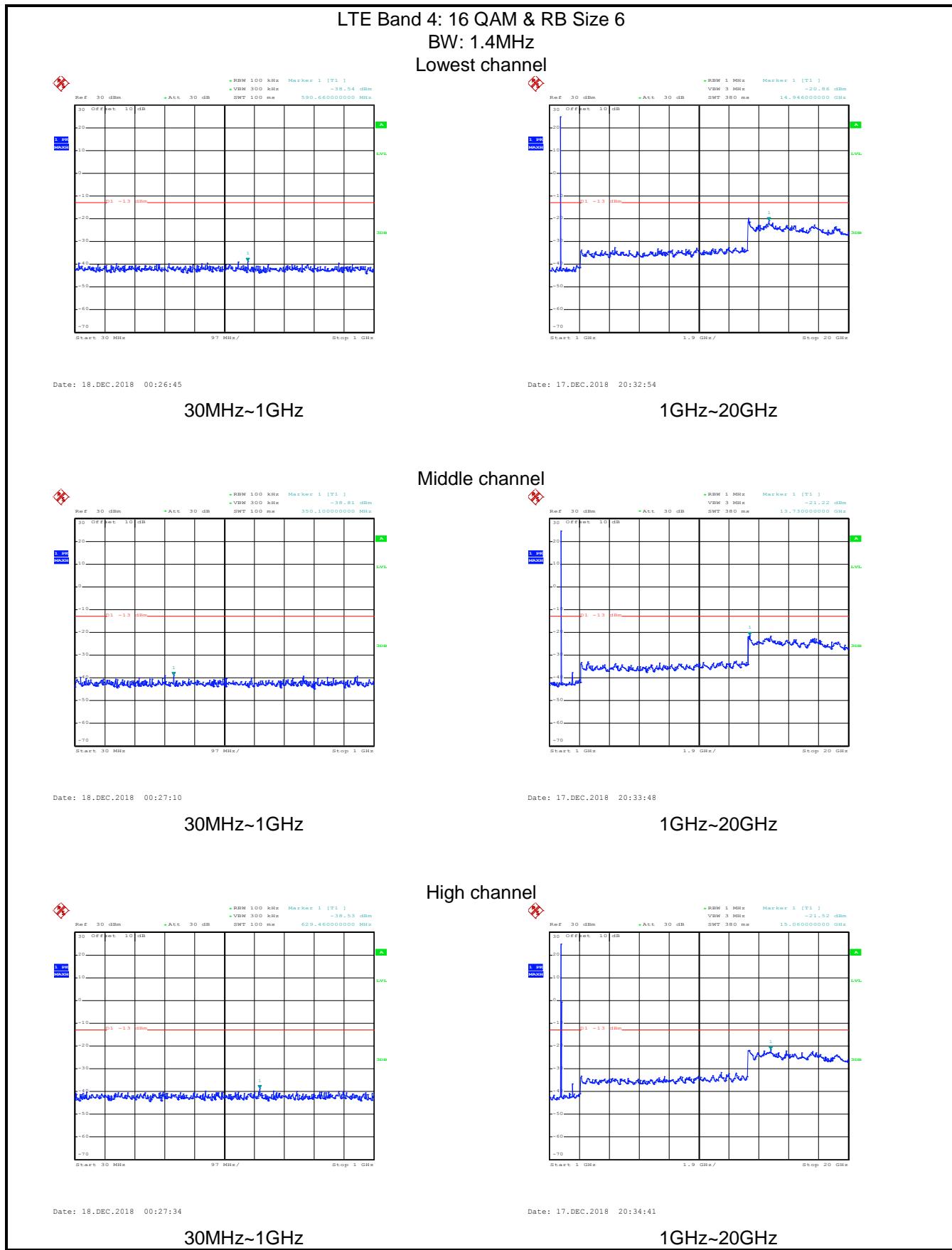


## 6.4 Out of band emission at antenna terminals

Test Requirement:	Part 22.917(a), Part 24.238(a), Part 27.53(g), Part 27.53(h), Part 27.53(m), Part 90.691(a)
Test Method:	ANSI/TIA-603-D 2010
Limit:	<p>LTE Band 4 &amp; 12 &amp; 17 &amp; 25 &amp; 26:  The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least <math>43 + 10 \log_{10}(P)</math> dB (-13 dBm).</p> <p>LTE Band 13:  The power of any emission shall be attenuated outside the band below the transmitter power (P) by at least <math>43 + 10 \log(P)</math> dB (-13 dBm). On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than <math>65 + 10 \log(P)</math> dB in a 6.25 kHz band segment, for mobile and portable stations.</p> <p>LTE Band 7 &amp; 41:  For mobile digital stations, the attenuation factor shall be not less than <math>40 + 10 \log(P)</math> dB on all frequencies between the channel edge and 5 megahertz from the channel edge, <math>43 + 10 \log(P)</math> dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and <math>55 + 10 \log(P)</math> dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than <math>43 + 10 \log(P)</math> dB on all frequencies between 2490.5 MHz and 2496 MHz and <math>55 + 10 \log(P)</math> dB at or below 2490.5 MHz.</p>
Test Setup:	
Test Procedure:	<ol style="list-style-type: none"> <li>The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation.</li> <li>The resolution bandwidth of the spectrum analyzer was set at 100 kHz when below 1GHz, 1MHz when above 1 GHz; sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.</li> <li>For the out of band: Set the RBW=100 kHz, VBW=300 kHz when below 1 GHz, RBW =1 MHz, VBW=3 MHz when above 1 GHz, Start=30MHz, Stop= 10th harmonic.</li> <li>Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions.</li> </ol>
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	Pre-scan all RB Size and offset, and found the RB Size and offset of worst case, so the report shows only the worst case test data.

**Test plots as follows (Conducted spurious emission) (worst case):  
LTE Band 4 part:**

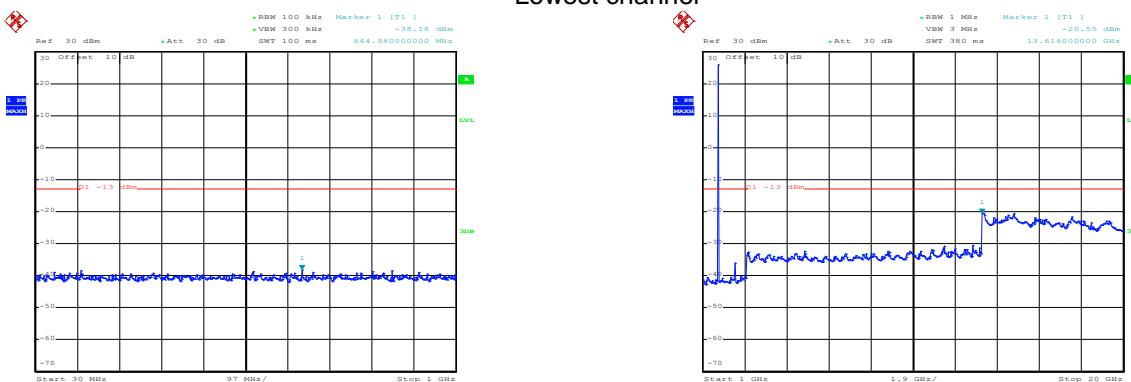




## LTE Band 4: QPSK &amp; RB Size 1

BW: 1.4MHz

Lowest channel



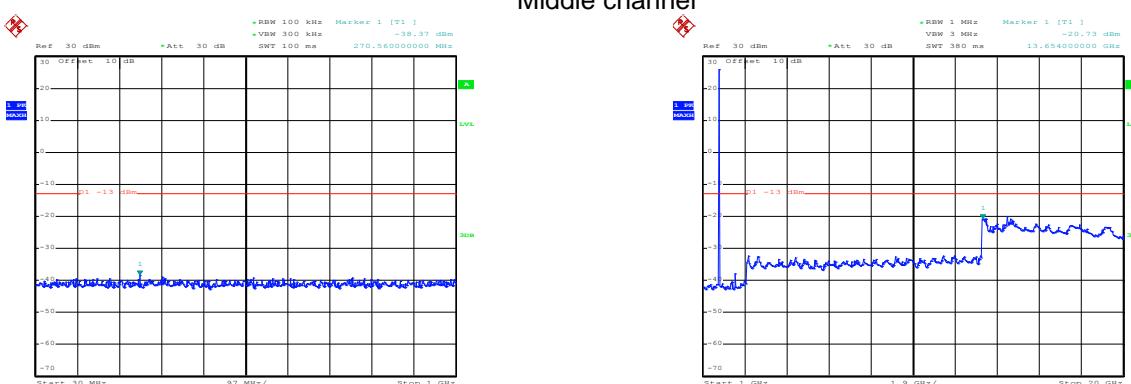
Date: 18.DEC.2018 00:26:30

30MHz~1GHz

Date: 17.DEC.2018 20:31:49

1GHz~20GHz

## Middle channel



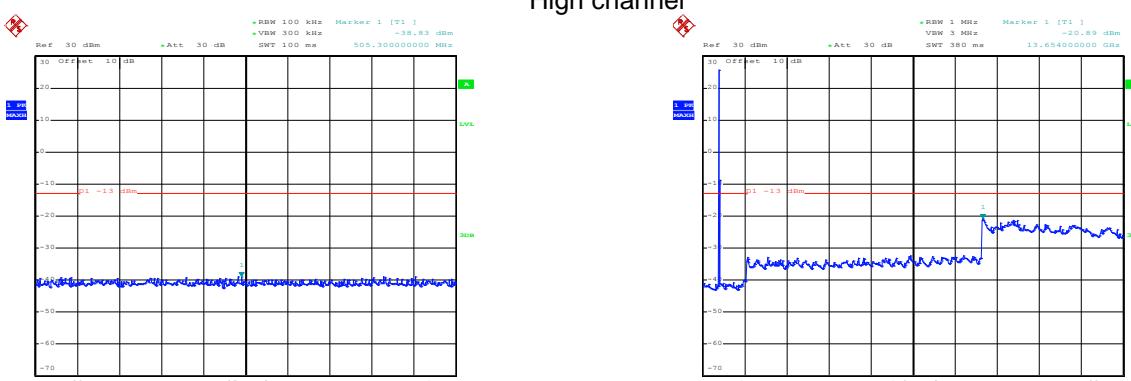
Date: 18.DEC.2018 00:26:53

30MHz~1GHz

Date: 17.DEC.2018 20:33:18

1GHz~20GHz

## High channel



Date: 18.DEC.2018 00:27:21

30MHz~1GHz

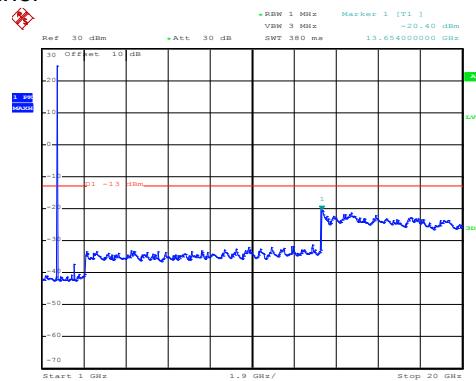
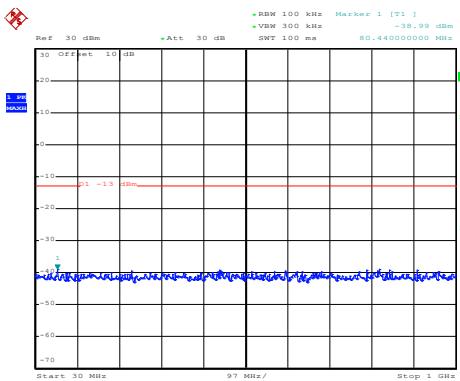
Date: 17.DEC.2018 20:34:11

1GHz~20GHz

## LTE Band 4: QPSK &amp; RB Size 6

BW: 1.4MHz

Lowest channel



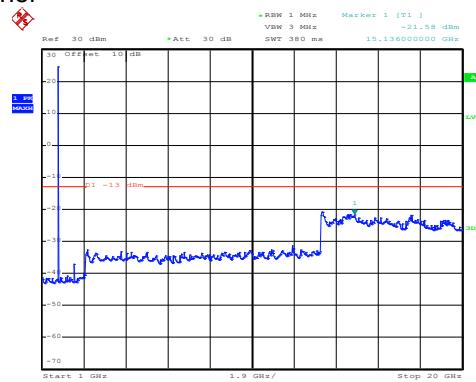
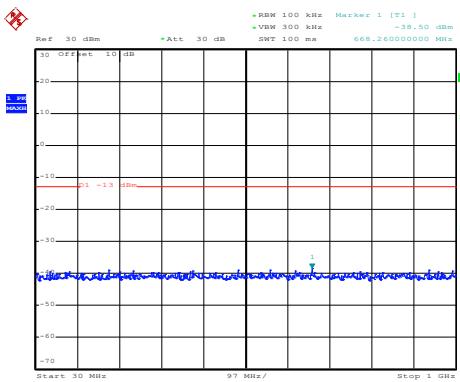
Date: 18.DEC.2018 00:26:42

30MHz~1GHz

Date: 17.DEC.2018 20:32:46

1GHz~20GHz

## Middle channel



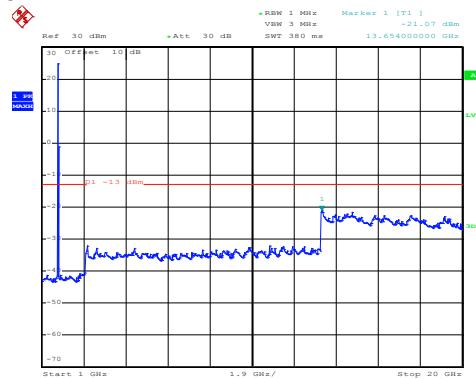
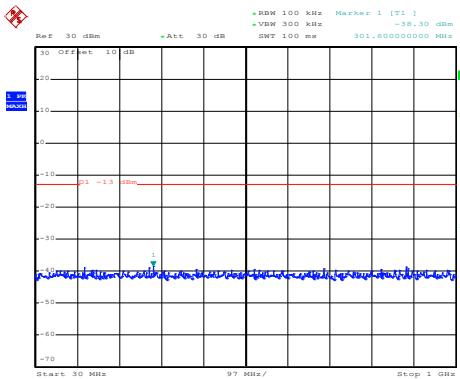
Date: 18.DEC.2018 00:27:07

30MHz~1GHz

Date: 17.DEC.2018 20:33:39

1GHz~20GHz

## High channel

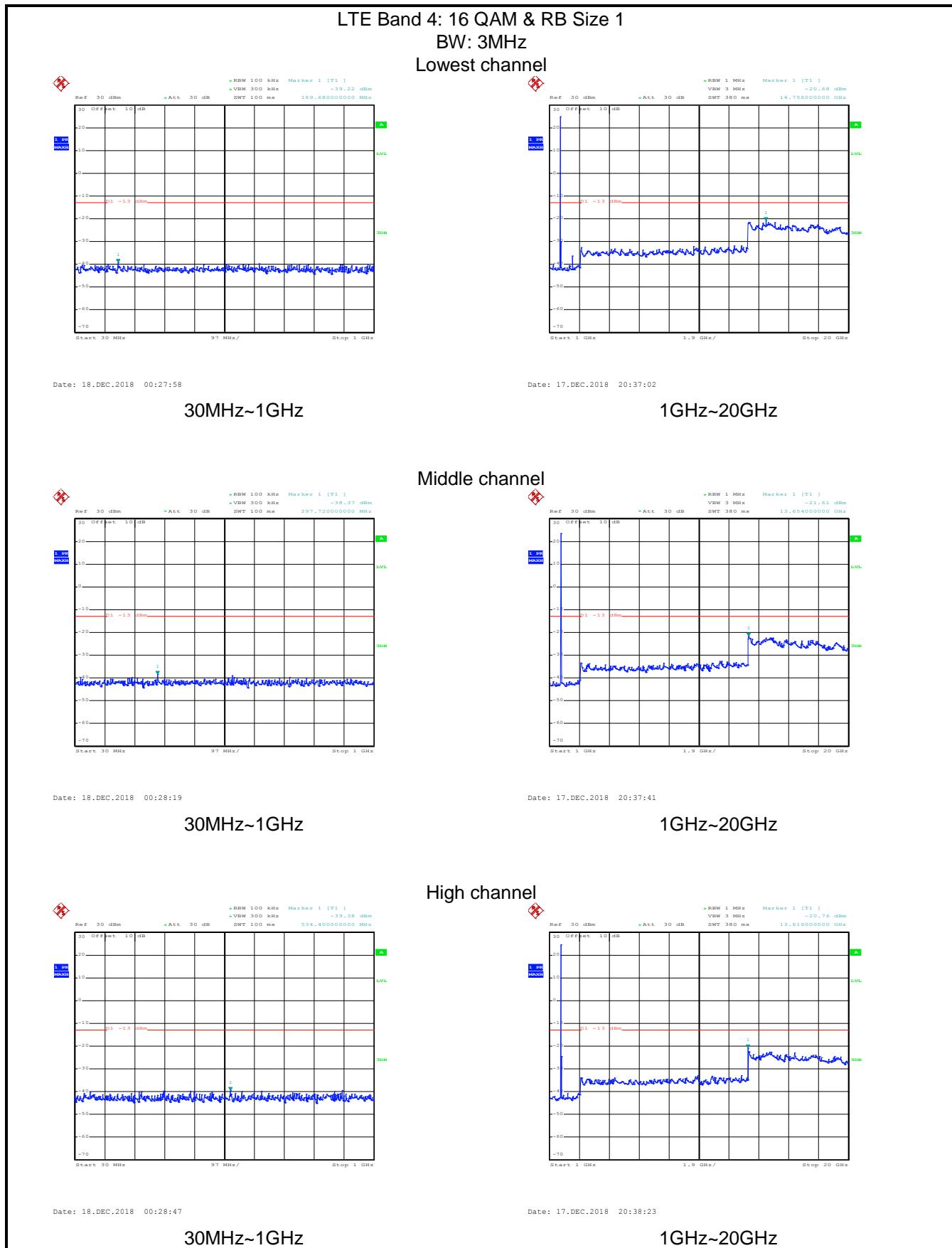


Date: 18.DEC.2018 00:27:31

30MHz~1GHz

Date: 17.DEC.2018 20:34:33

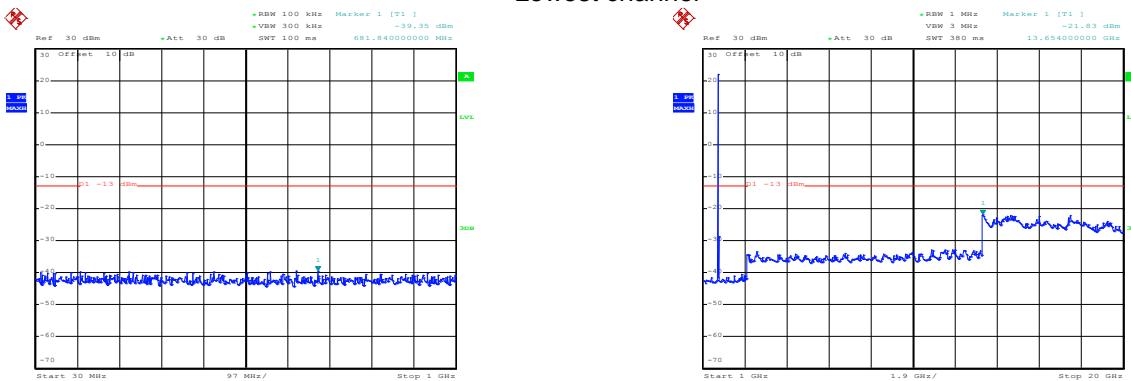
1GHz~20GHz



## LTE Band 4: 16 QAM &amp; RB Size 15

BW: 3MHz

Lowest channel



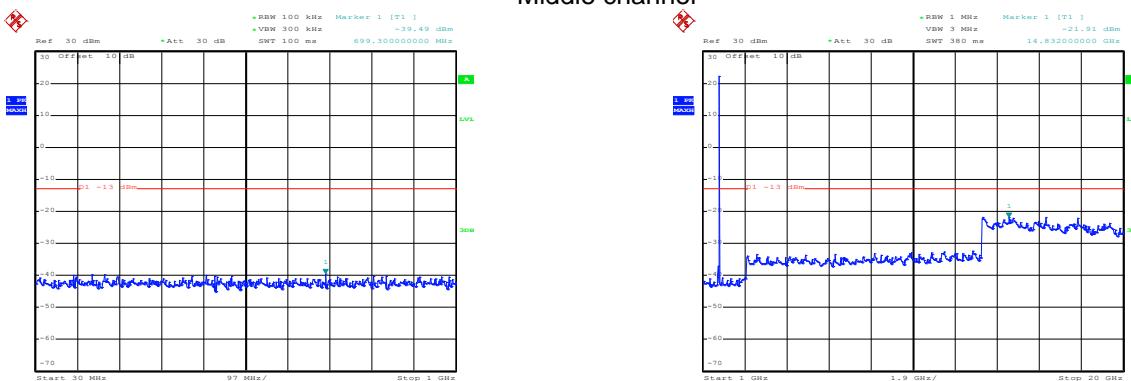
Date: 18.DEC.2018 00:28:07

30MHz~1GHz

Date: 17.DEC.2018 20:37:21

1GHz~20GHz

## Middle channel



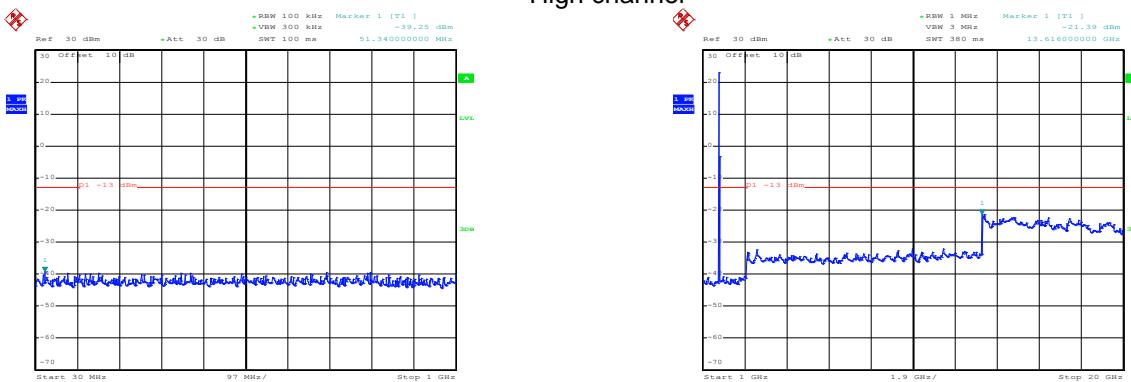
Date: 18.DEC.2018 00:28:33

30MHz~1GHz

Date: 17.DEC.2018 20:38:00

1GHz~20GHz

## High channel



Date: 18.DEC.2018 00:29:01

30MHz~1GHz

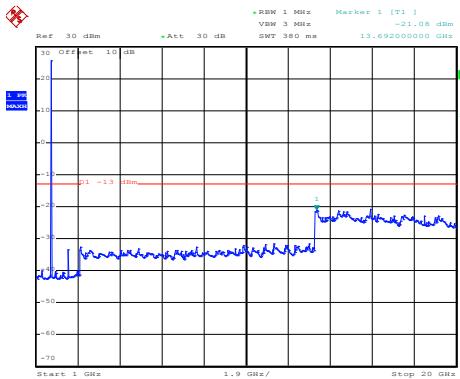
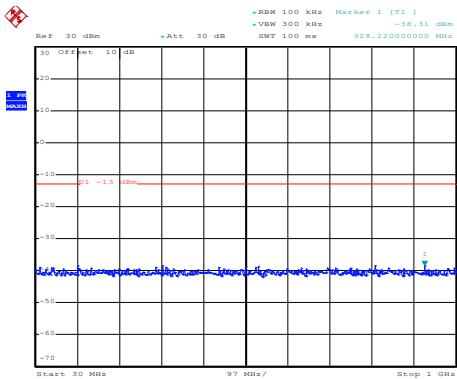
Date: 17.DEC.2018 20:39:04

1GHz~20GHz

## LTE Band 4: QPSK &amp; RB Size 1

BW: 3MHz

Lowest channel



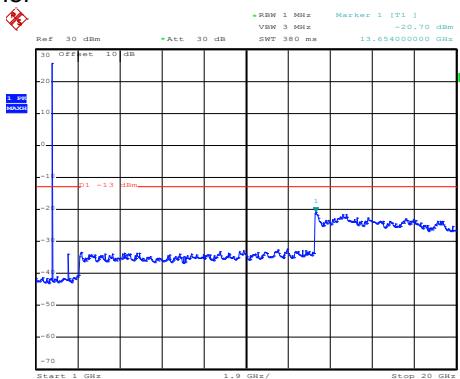
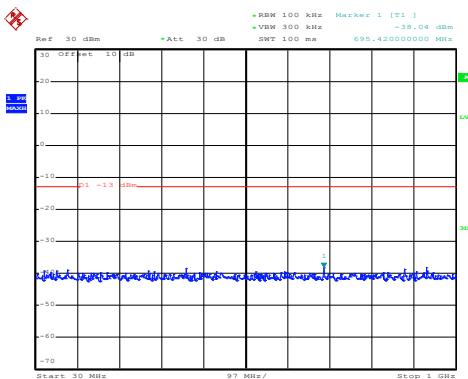
Date: 18.DEC.2018 00:27:54

30MHz~1GHz

Date: 17.DEC.2018 20:36:45

1GHz~20GHz

Middle channel



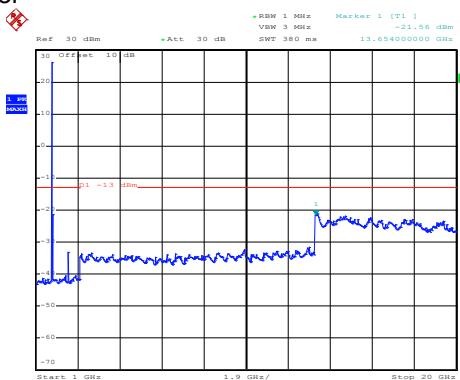
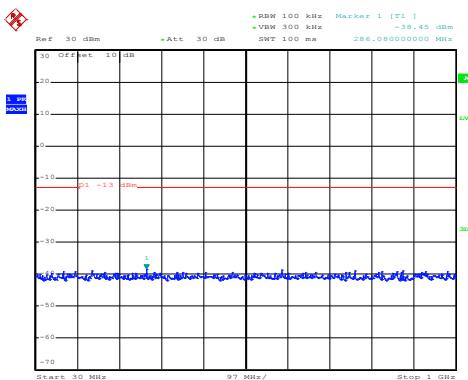
Date: 18.DEC.2018 00:28:16

30MHz~1GHz

Date: 17.DEC.2018 20:37:36

1GHz~20GHz

High channel



Date: 18.DEC.2018 00:28:44

30MHz~1GHz

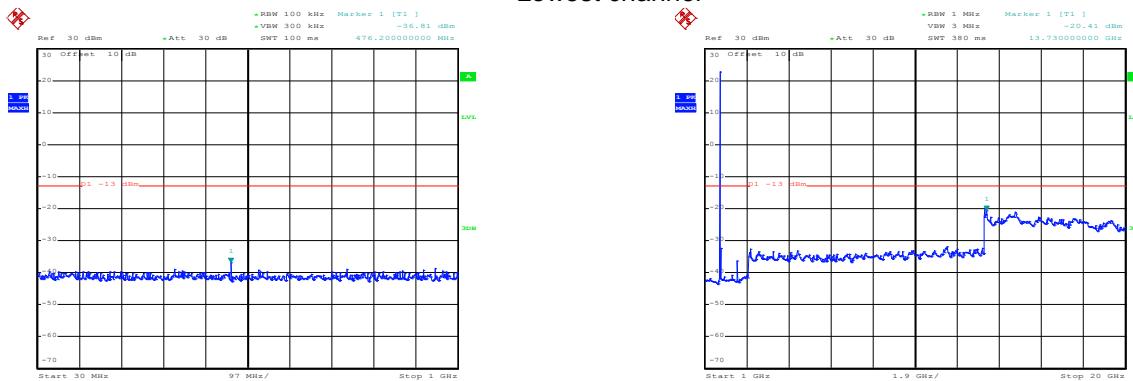
Date: 17.DEC.2018 20:38:18

1GHz~20GHz

## LTE Band 4: QPSK &amp; RB Size 15

BW: 3MHz

Lowest channel



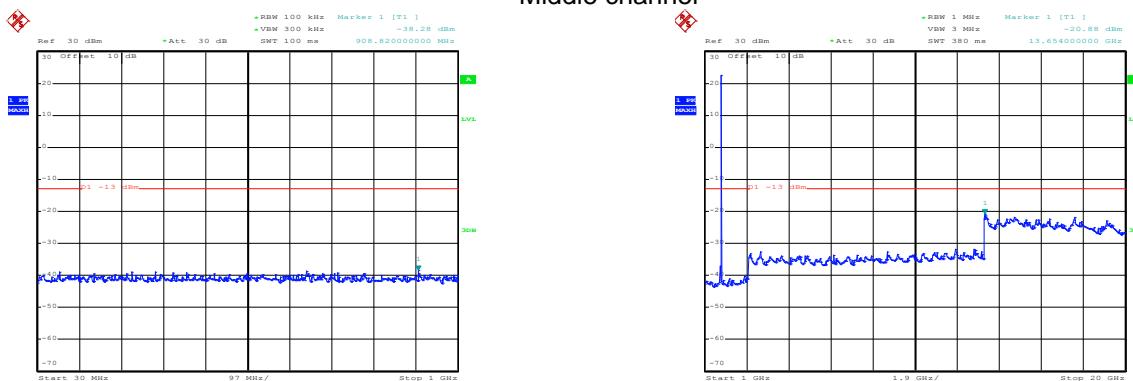
Date: 18.DEC.2018 00:28:04

30MHz~1GHz

Date: 17.DEC.2018 20:37:15

1GHz~20GHz

## Middle channel



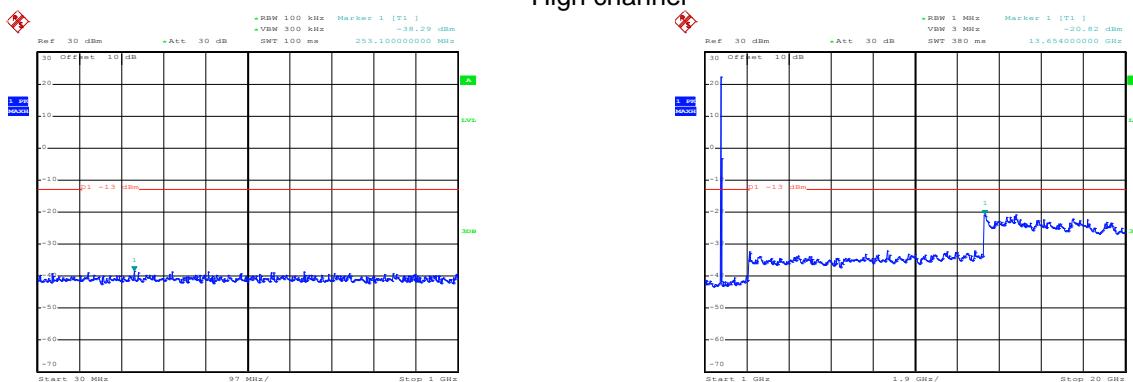
Date: 18.DEC.2018 00:28:30

30MHz~1GHz

Date: 17.DEC.2018 20:37:53

1GHz~20GHz

## High channel



Date: 18.DEC.2018 00:28:58

30MHz~1GHz

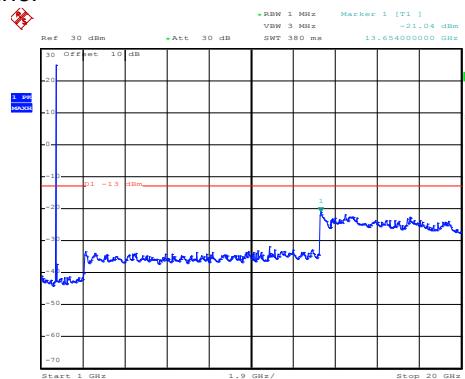
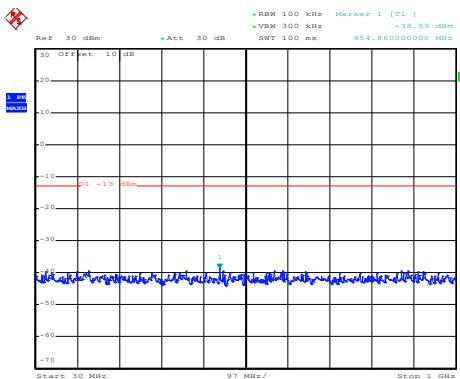
Date: 17.DEC.2018 20:38:36

1GHz~20GHz

## LTE Band 4: 16 QAM &amp; RB Size 1

BW: 5MHz

Lowest channel



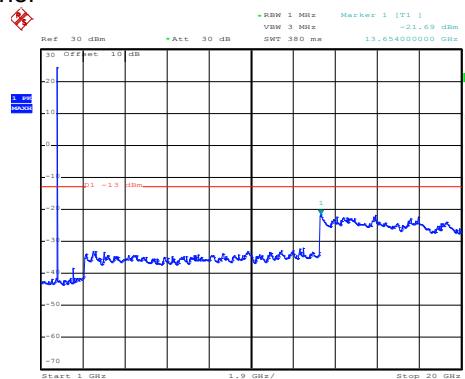
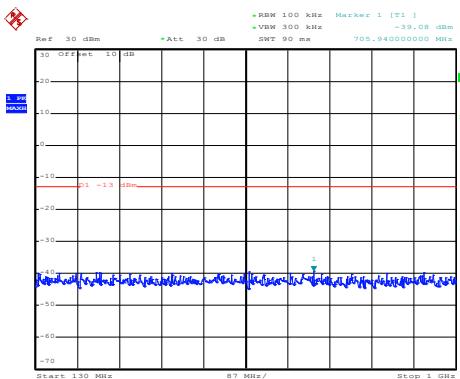
Date: 18.DEC.2018 00:29:16

30MHz~1GHz

Date: 17.DEC.2018 20:39:40

1GHz~20GHz

Middle channel



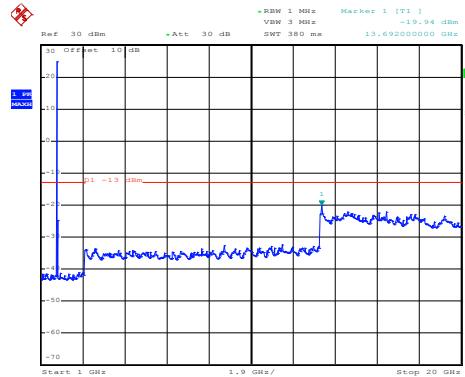
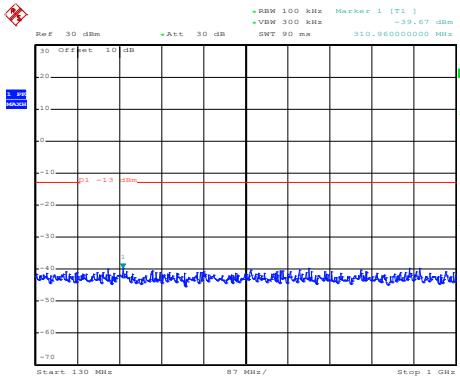
Date: 17.DEC.2018 23:34:22

30MHz~1GHz

Date: 17.DEC.2018 20:40:18

1GHz~20GHz

High channel

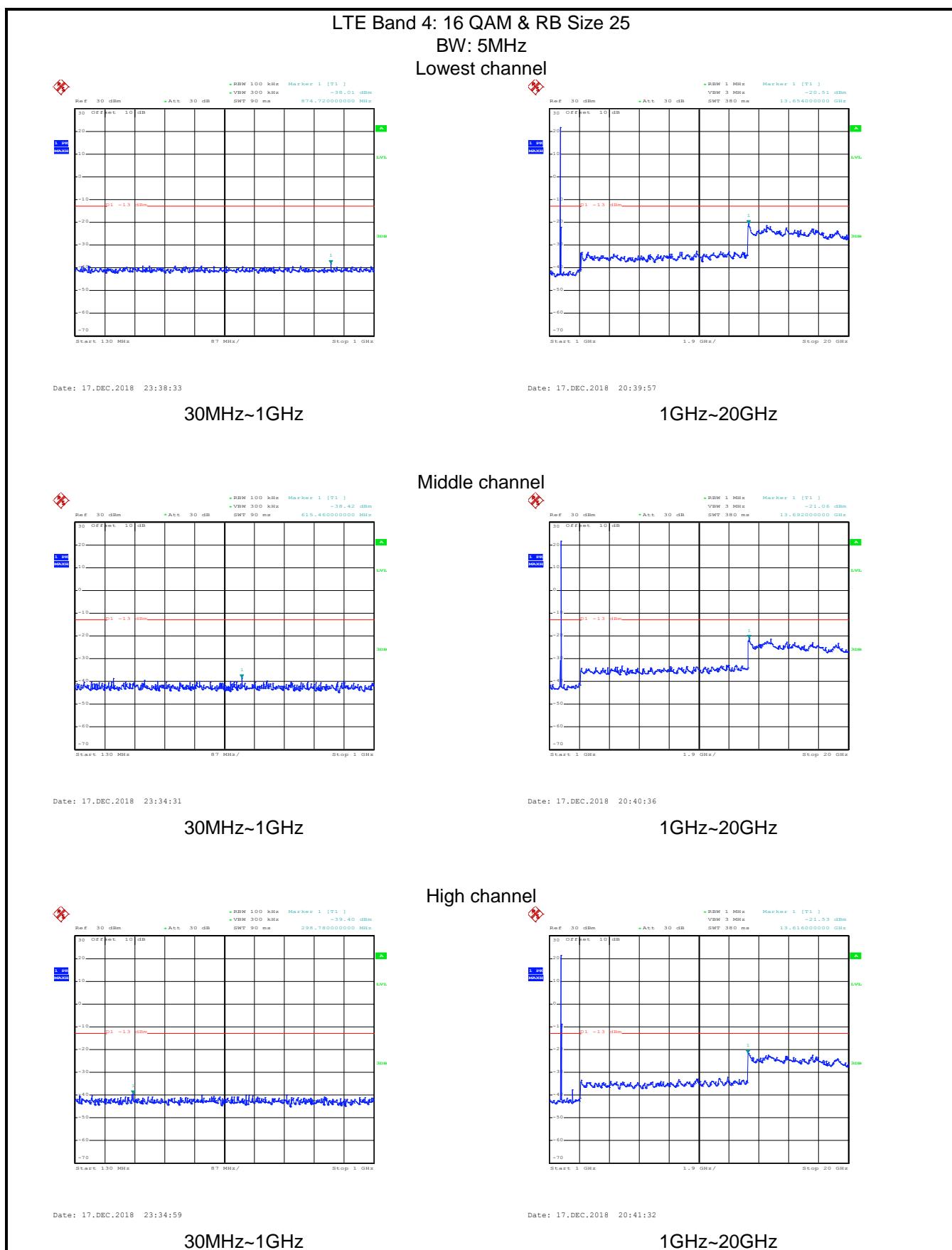


Date: 17.DEC.2018 23:34:50

30MHz~1GHz

Date: 17.DEC.2018 20:41:03

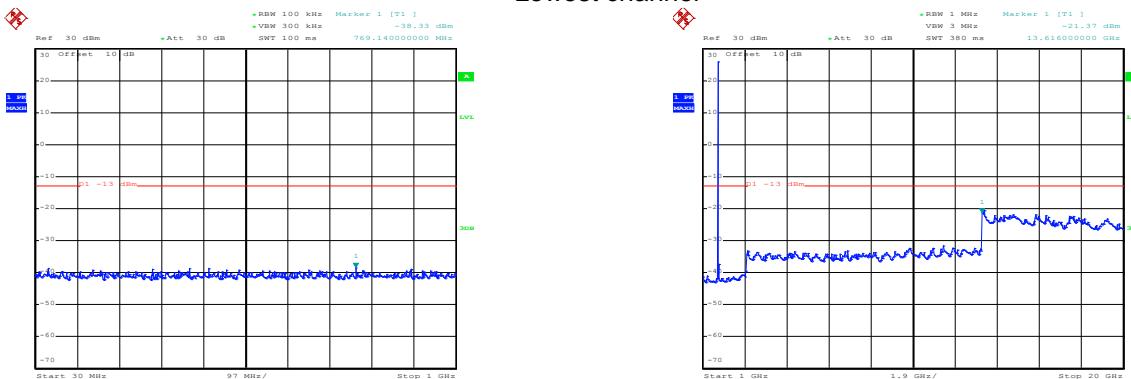
1GHz~20GHz



## LTE Band 4: QPSK &amp; RB Size 1

BW: 5MHz

Lowest channel



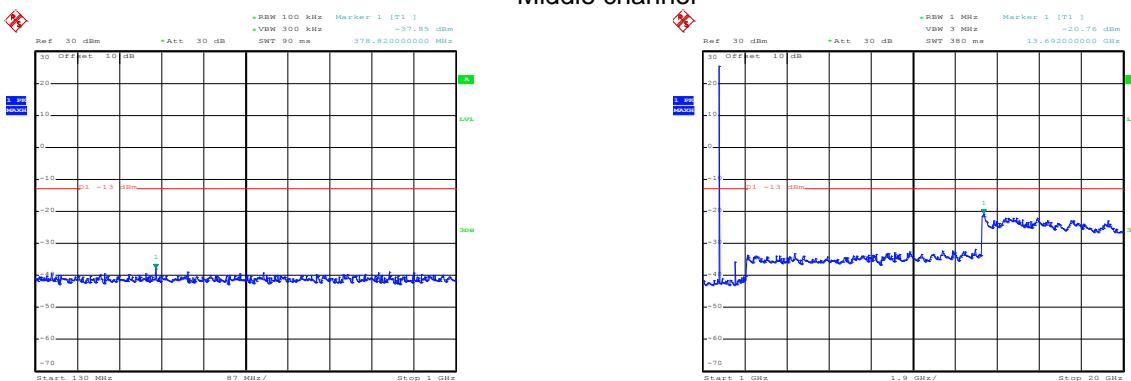
Date: 18.DEC.2018 00:29:12

30MHz~1GHz

Date: 17.DEC.2018 20:39:34

1GHz~20GHz

## Middle channel



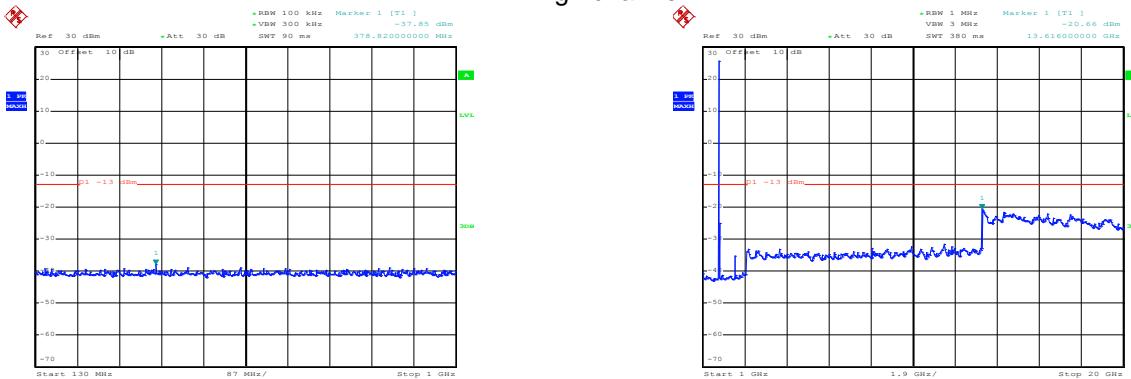
Date: 17.DEC.2018 23:34:38

30MHz~1GHz

Date: 17.DEC.2018 20:40:12

1GHz~20GHz

## High channel



Date: 17.DEC.2018 23:34:47

30MHz~1GHz

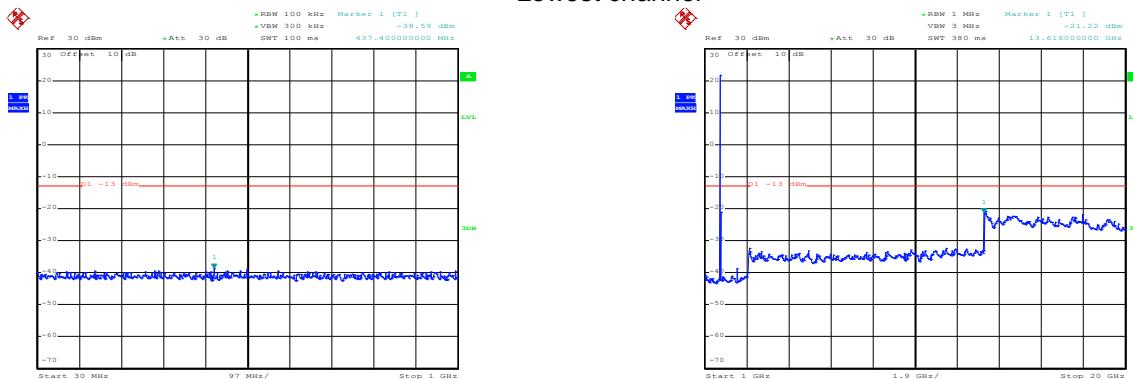
Date: 17.DEC.2018 20:40:55

1GHz~20GHz

## LTE Band 4: QPSK &amp; RB Size 25

BW: 5MHz

Lowest channel



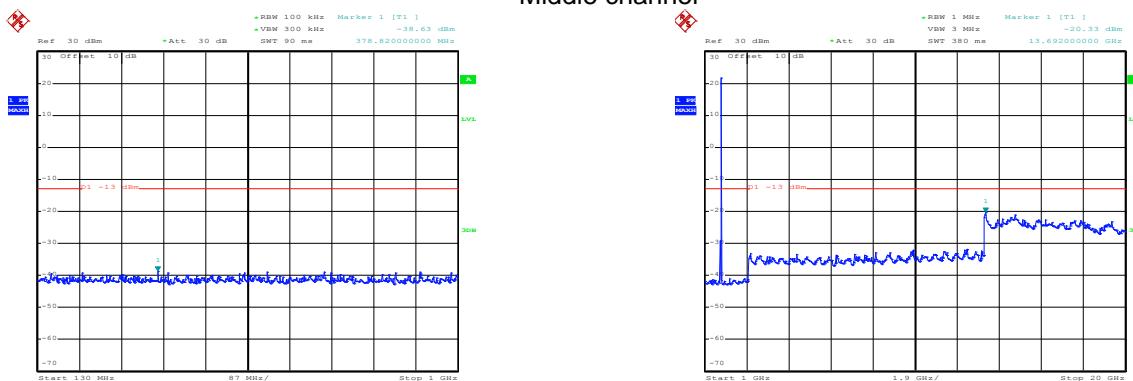
Date: 18.DEC.2018 00:29:24

30MHz~1GHz

Date: 17.DEC.2018 20:39:51

1GHz~20GHz

Middle channel



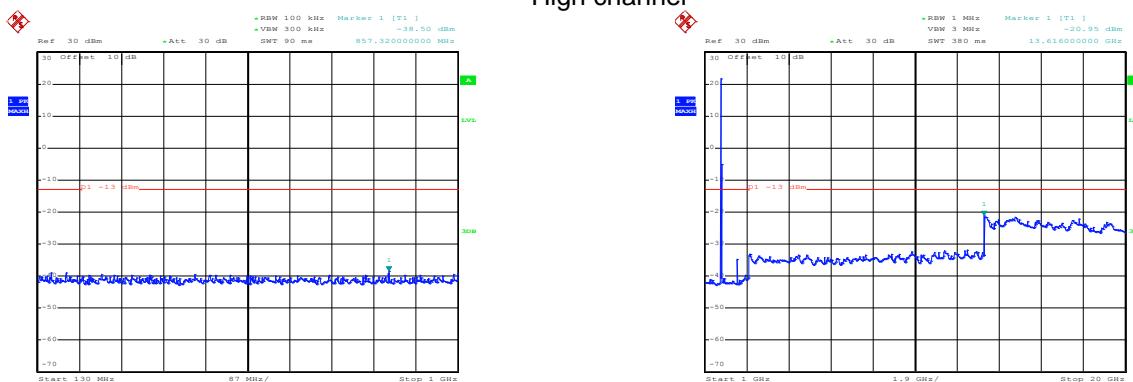
Date: 17.DEC.2018 23:34:28

30MHz~1GHz

Date: 17.DEC.2018 20:40:30

1GHz~20GHz

High channel

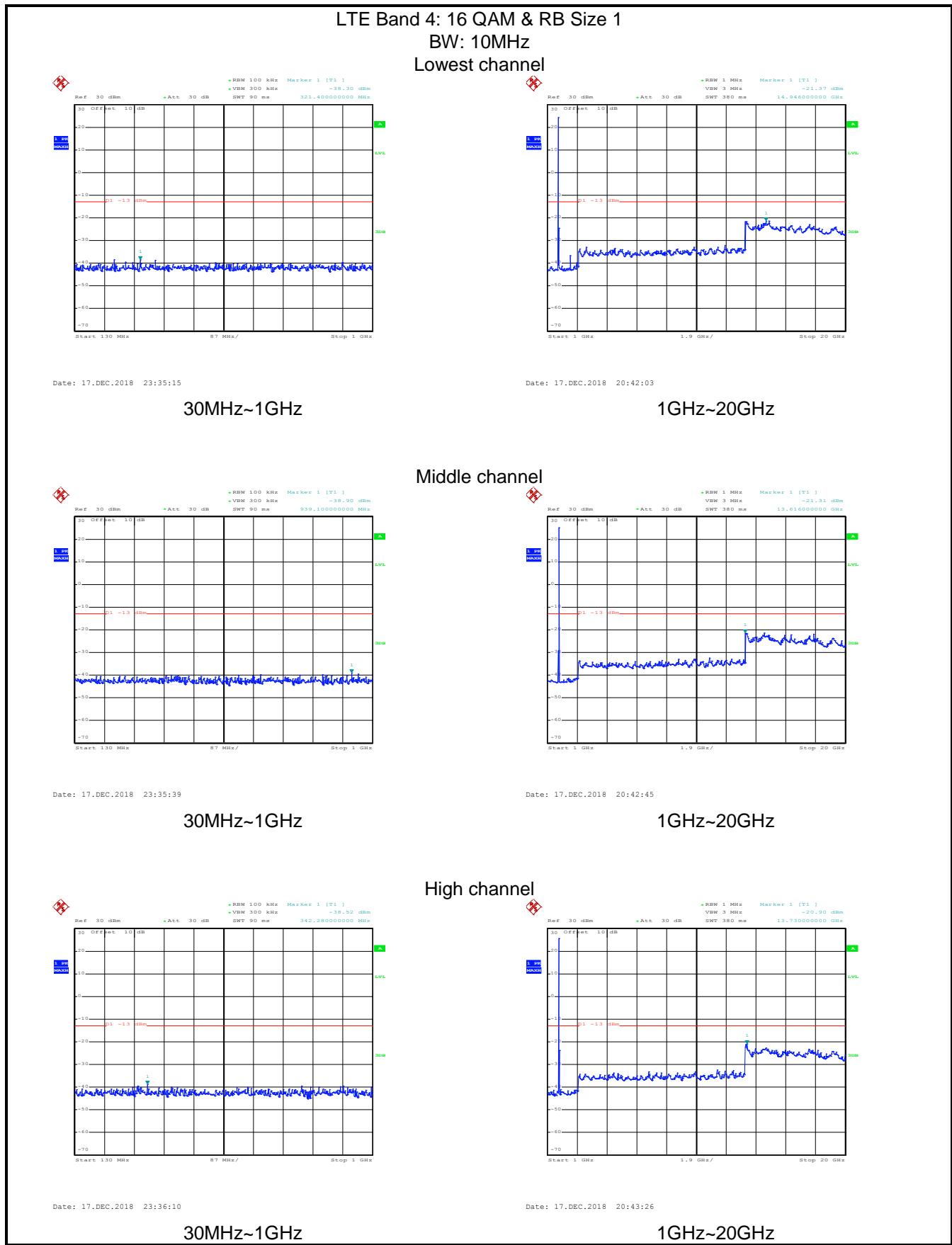


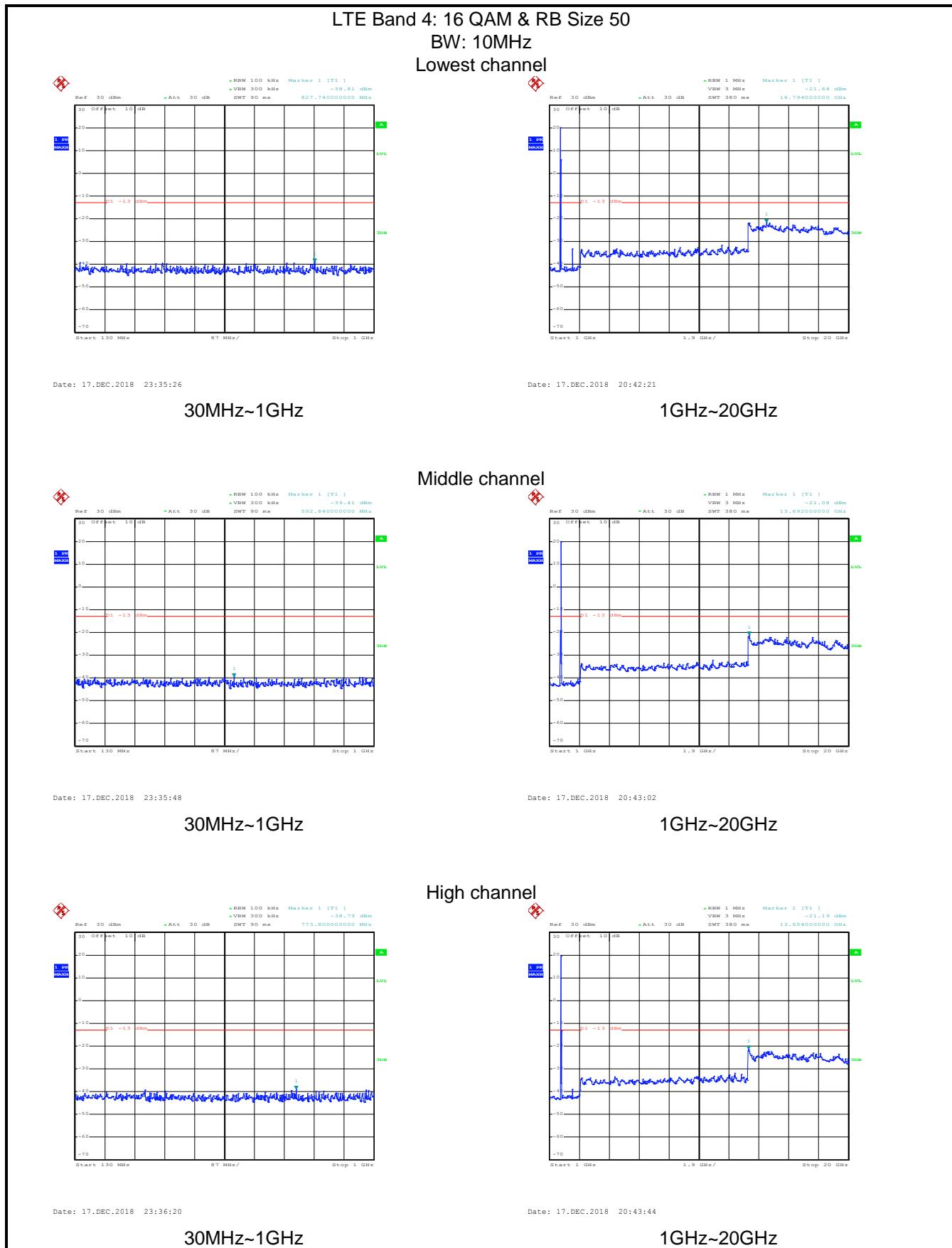
Date: 17.DEC.2018 23:34:57

30MHz~1GHz

Date: 17.DEC.2018 20:41:26

1GHz~20GHz

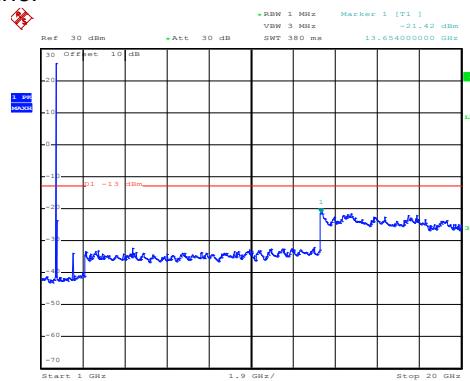
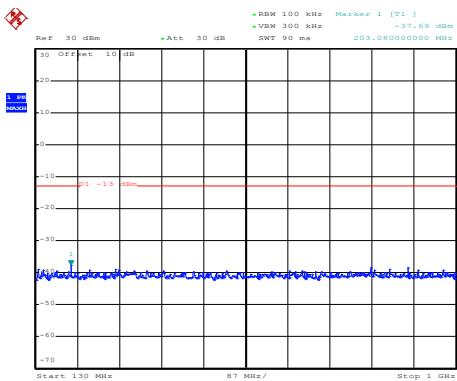




## LTE Band 4: QPSK &amp; RB Size 1

BW: 10MHz

Lowest channel



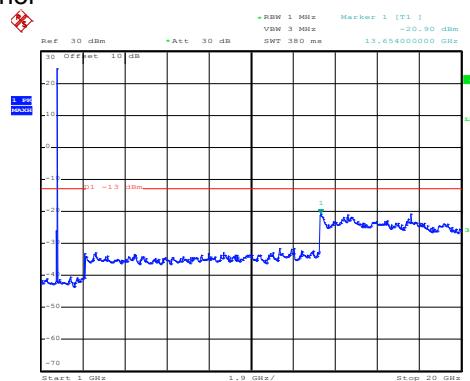
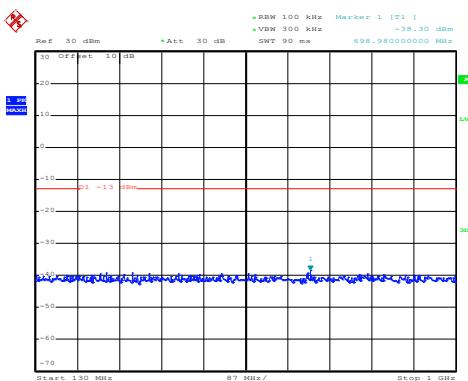
Date: 17.DEC.2018 23:35:11

30MHz~1GHz

Date: 17.DEC.2018 20:41:56

1GHz~20GHz

## Middle channel



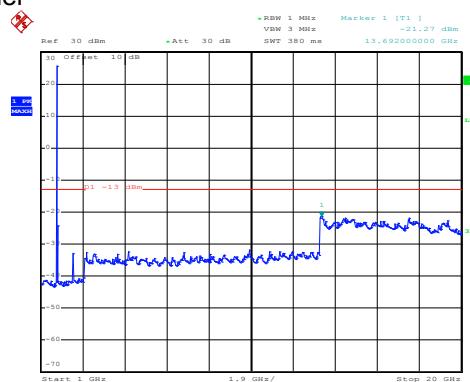
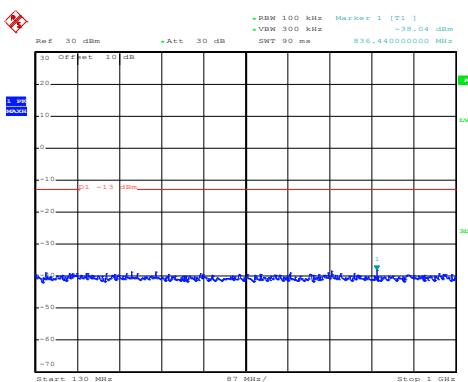
Date: 17.DEC.2018 23:35:34

30MHz~1GHz

Date: 17.DEC.2018 20:42:38

1GHz~20GHz

## High channel



Date: 17.DEC.2018 23:36:07

30MHz~1GHz

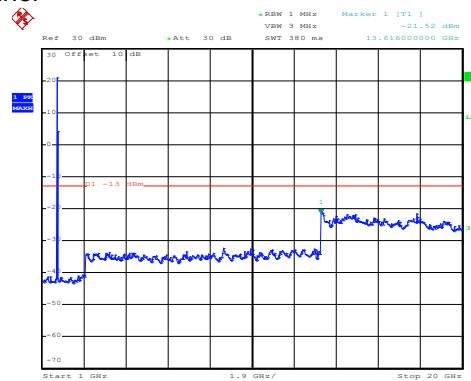
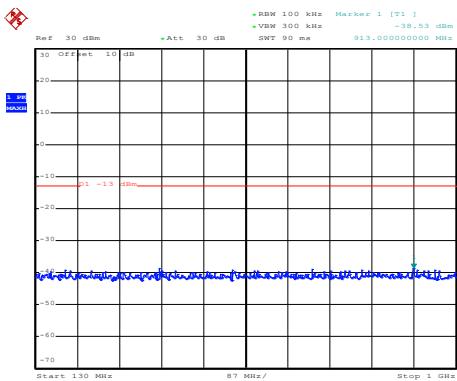
Date: 17.DEC.2018 20:43:21

1GHz~20GHz

## LTE Band 4: QPSK &amp; RB Size 50

BW: 10MHz

Lowest channel



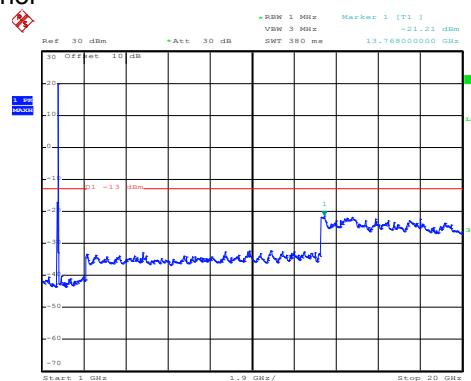
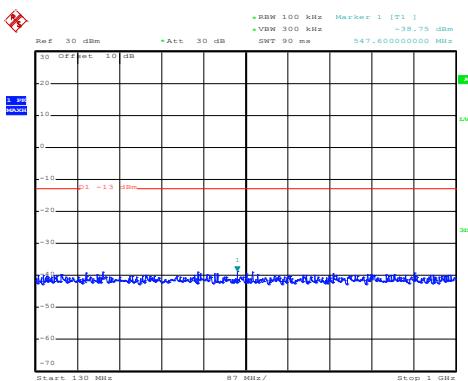
Date: 17.DEC.2018 23:35:23

30MHz~1GHz

Date: 17.DEC.2018 20:42:13

1GHz~20GHz

Middle channel



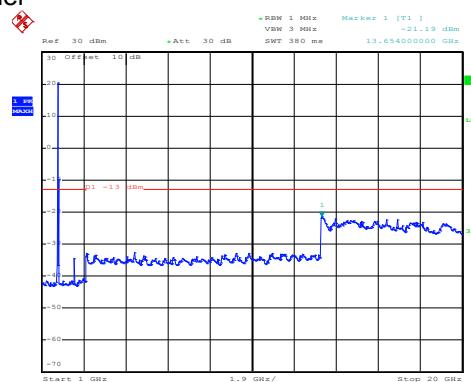
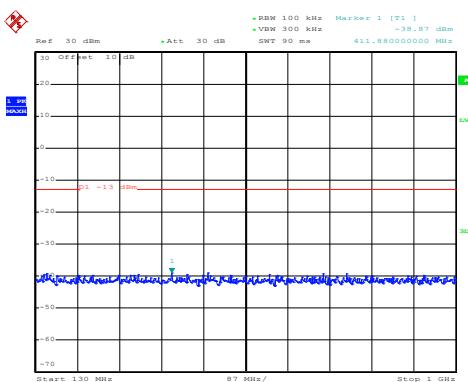
Date: 17.DEC.2018 23:35:45

30MHz~1GHz

Date: 17.DEC.2018 20:42:55

1GHz~20GHz

High channel



Date: 17.DEC.2018 23:36:17

30MHz~1GHz

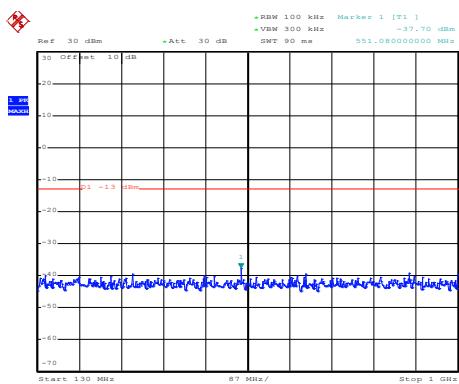
Date: 17.DEC.2018 20:43:38

1GHz~20GHz

## LTE Band 4: 16 QAM &amp; RB Size 1

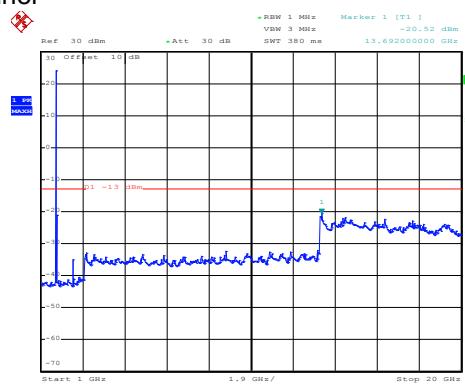
BW: 15MHz

Lowest channel



Date: 17.DEC.2018 23:36:33

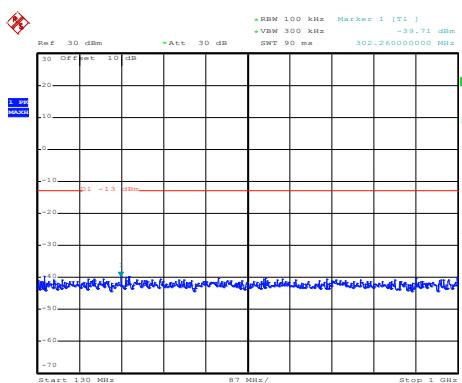
30MHz~1GHz



Date: 17.DEC.2018 20:44:18

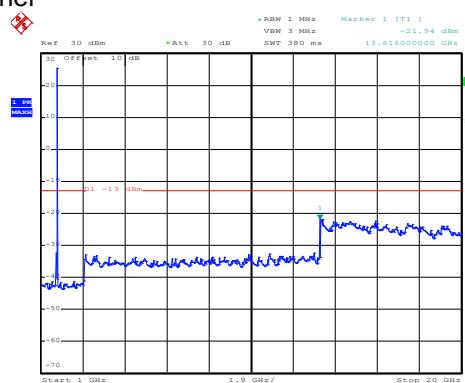
1GHz~20GHz

## Middle channel



Date: 17.DEC.2018 23:36:54

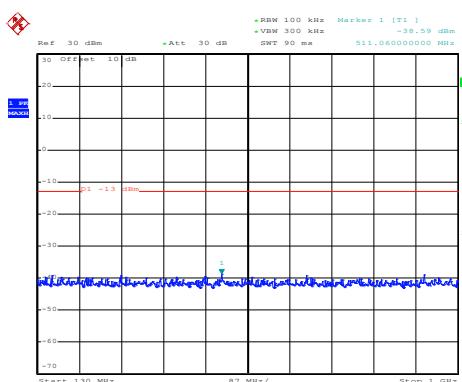
30MHz~1GHz



Date: 17.DEC.2018 20:45:07

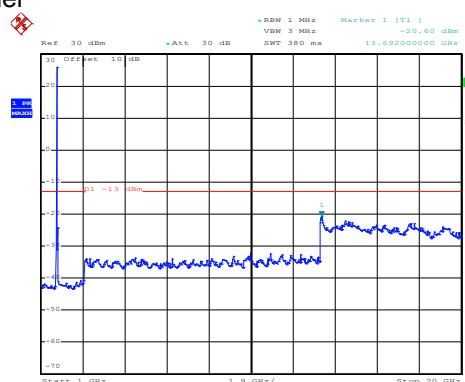
1GHz~20GHz

## High channel



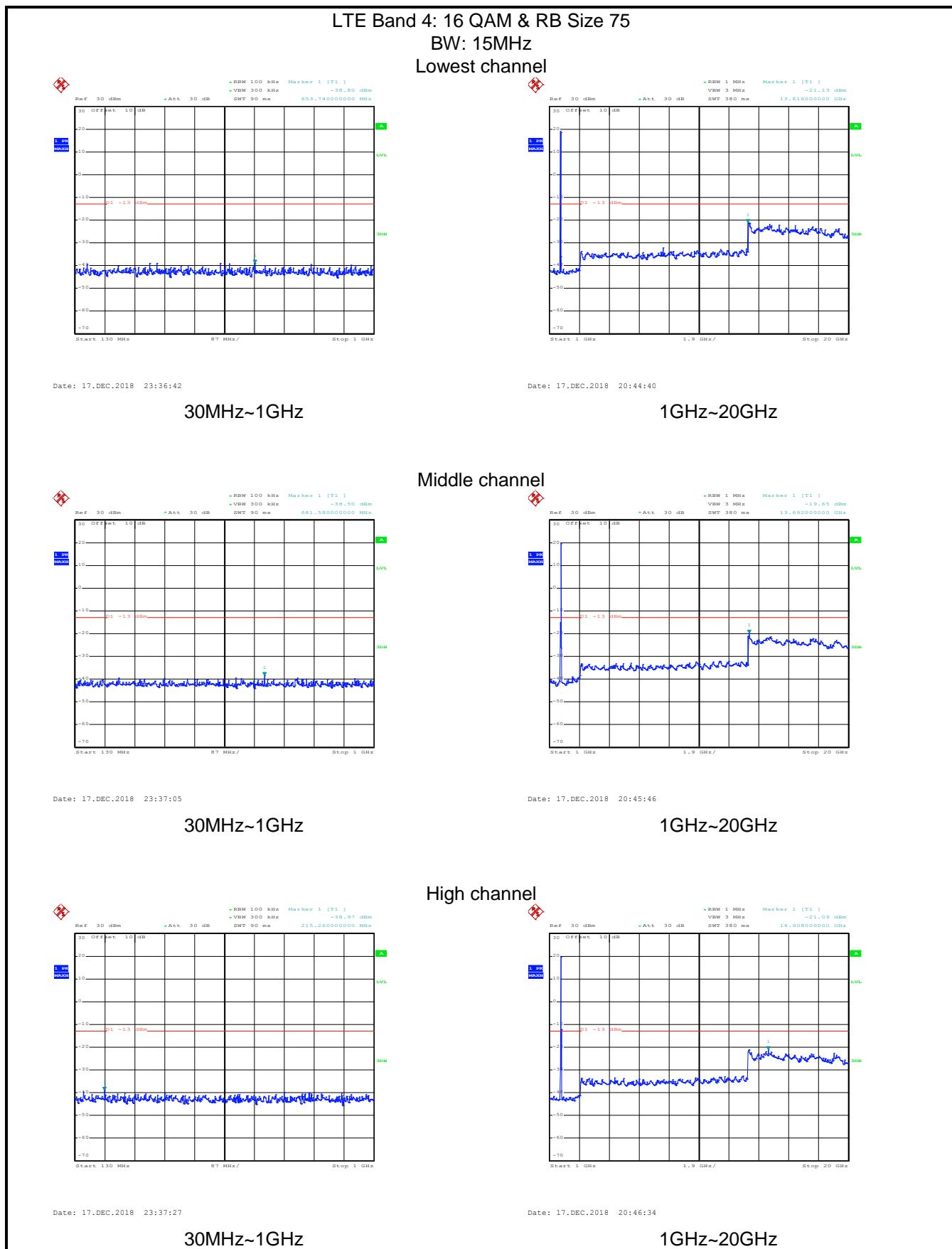
Date: 17.DEC.2018 23:37:18

30MHz~1GHz



Date: 17.DEC.2018 20:46:13

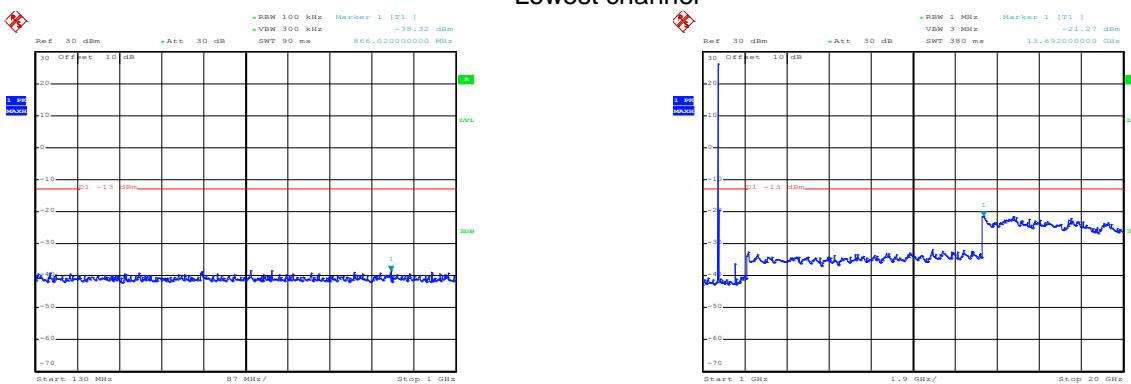
1GHz~20GHz



## LTE Band 4: QPSK &amp; RB Size 1

BW: 15MHz

Lowest channel



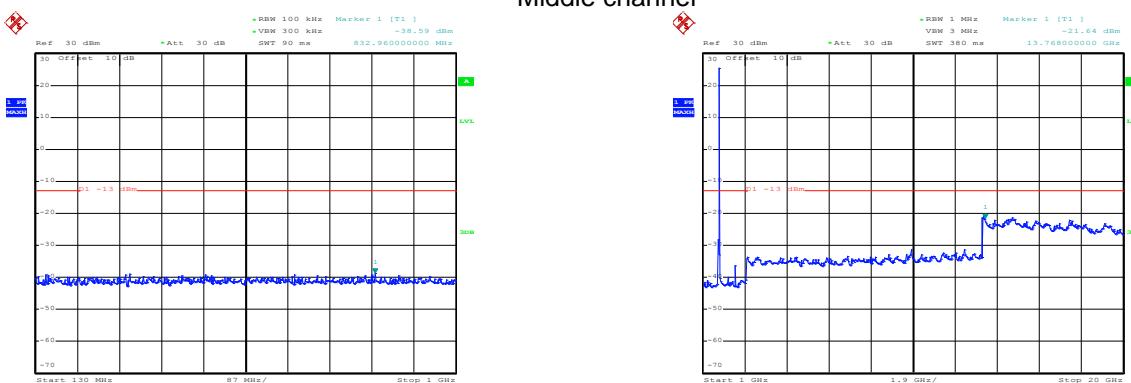
Date: 17.DEC.2018 23:36:30

30MHz~1GHz

Date: 17.DEC.2018 20:44:11

1GHz~20GHz

## Middle channel



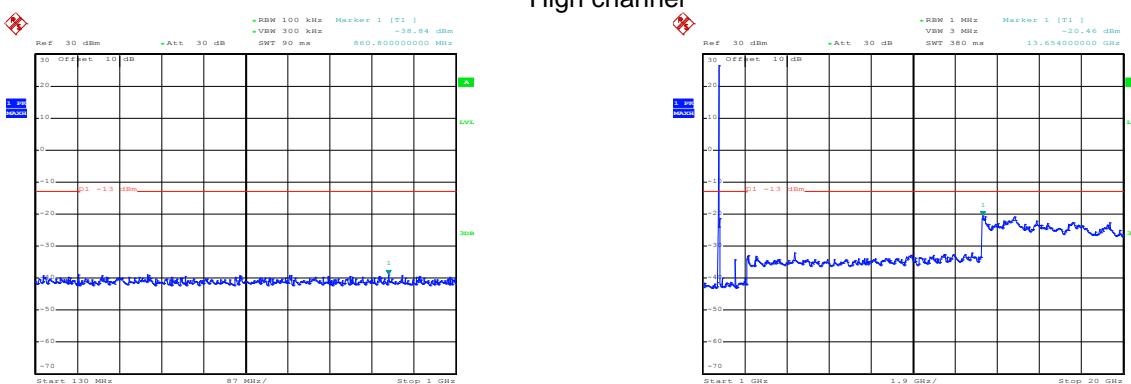
Date: 17.DEC.2018 23:36:50

30MHz~1GHz

Date: 17.DEC.2018 20:45:00

1GHz~20GHz

## High channel



Date: 17.DEC.2018 23:37:13

30MHz~1GHz

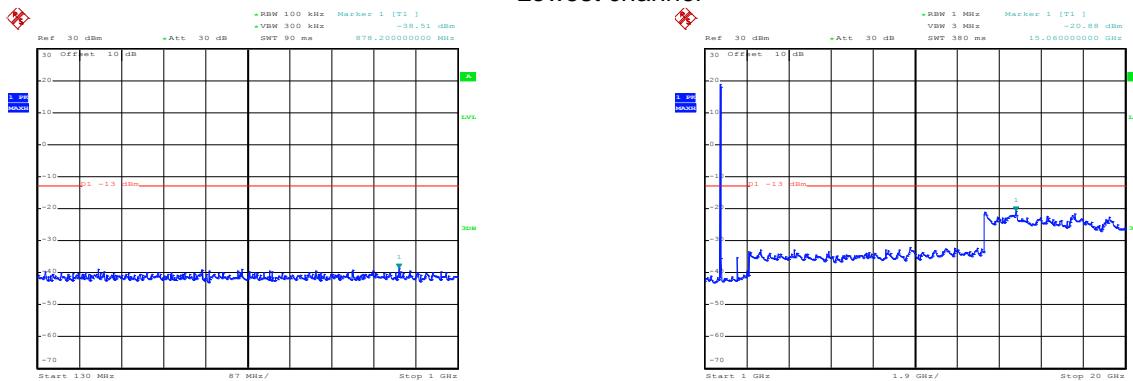
Date: 17.DEC.2018 20:46:06

1GHz~20GHz

## LTE Band 4: QPSK &amp; RB Size 75

BW: 15MHz

Lowest channel



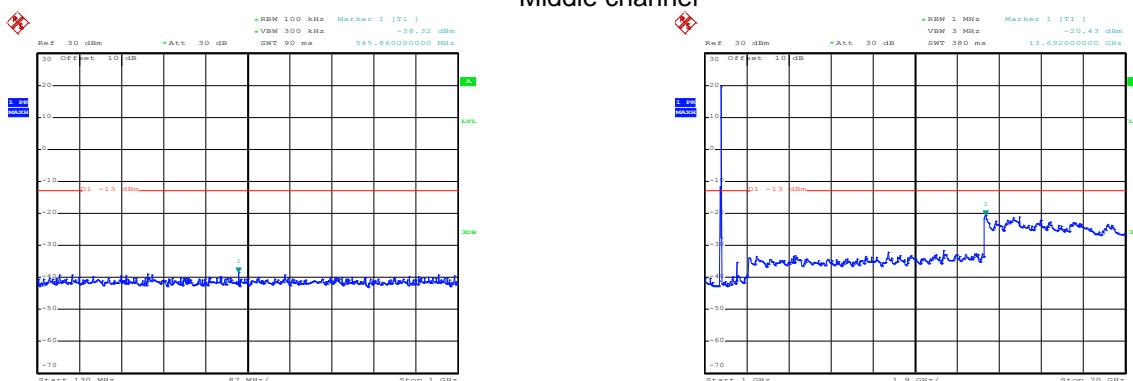
Date: 17.DEC.2018 23:36:39

30MHz~1GHz

Date: 17.DEC.2018 20:44:33

1GHz~20GHz

## Middle channel



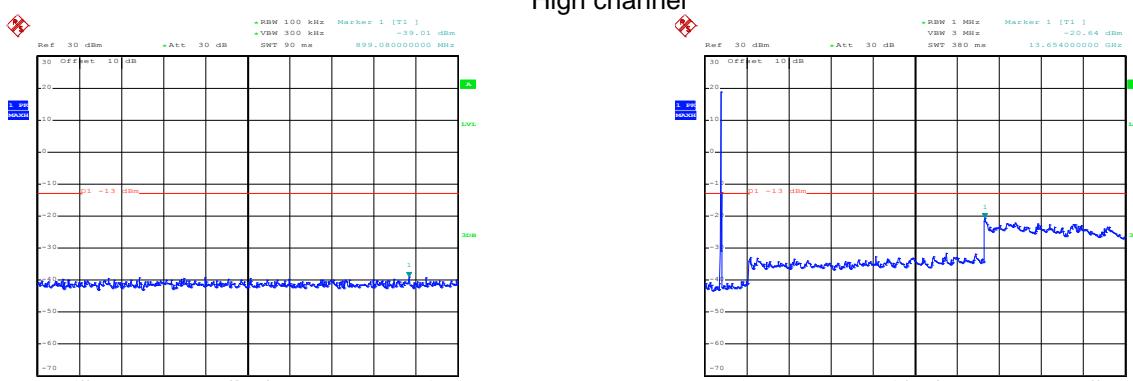
Date: 17.DEC.2018 23:37:01

30MHz~1GHz

Date: 17.DEC.2018 20:45:19

1GHz~20GHz

## High channel



Date: 17.DEC.2018 23:37:24

30MHz~1GHz

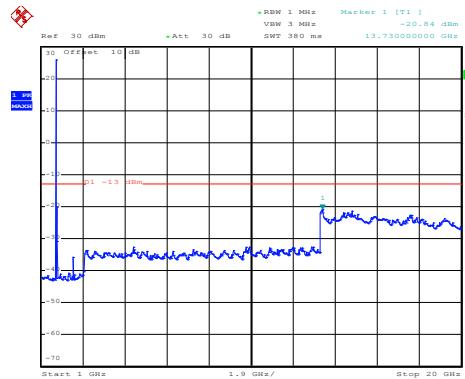
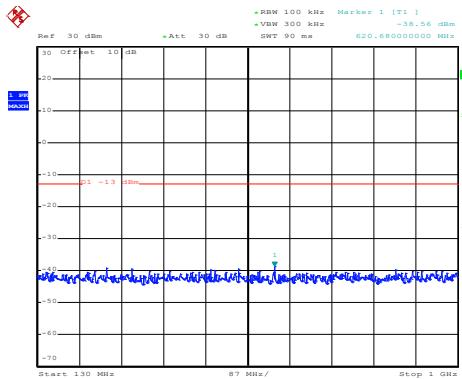
Date: 17.DEC.2018 20:46:26

1GHz~20GHz

## LTE Band 4: 16 QAM &amp; RB Size 1

BW: 20MHz

Lowest channel



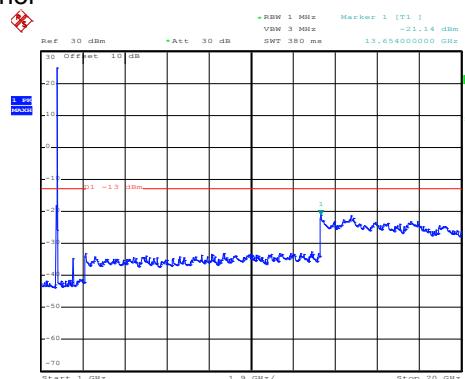
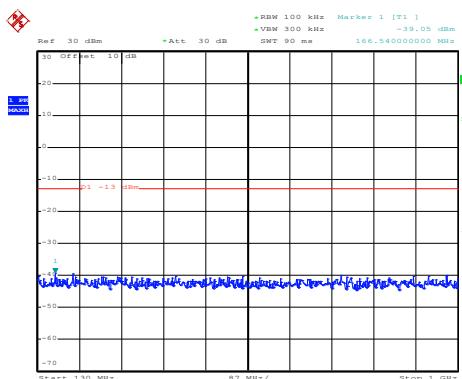
Date: 17.DEC.2018 23:37:42

30MHz~1GHz

Date: 17.DEC.2018 20:47:16

1GHz~20GHz

## Middle channel



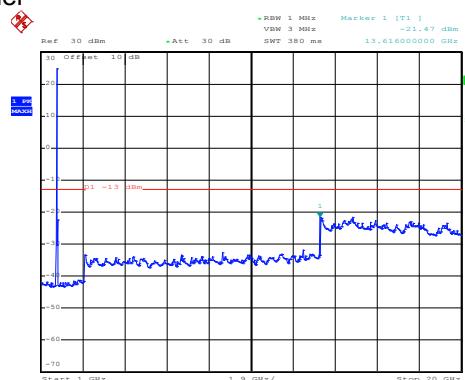
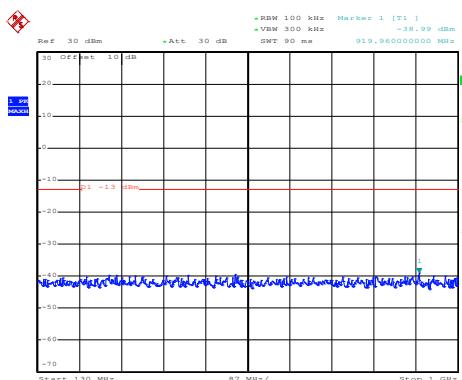
Date: 17.DEC.2018 23:38:07

30MHz~1GHz

Date: 17.DEC.2018 20:48:01

1GHz~20GHz

## High channel

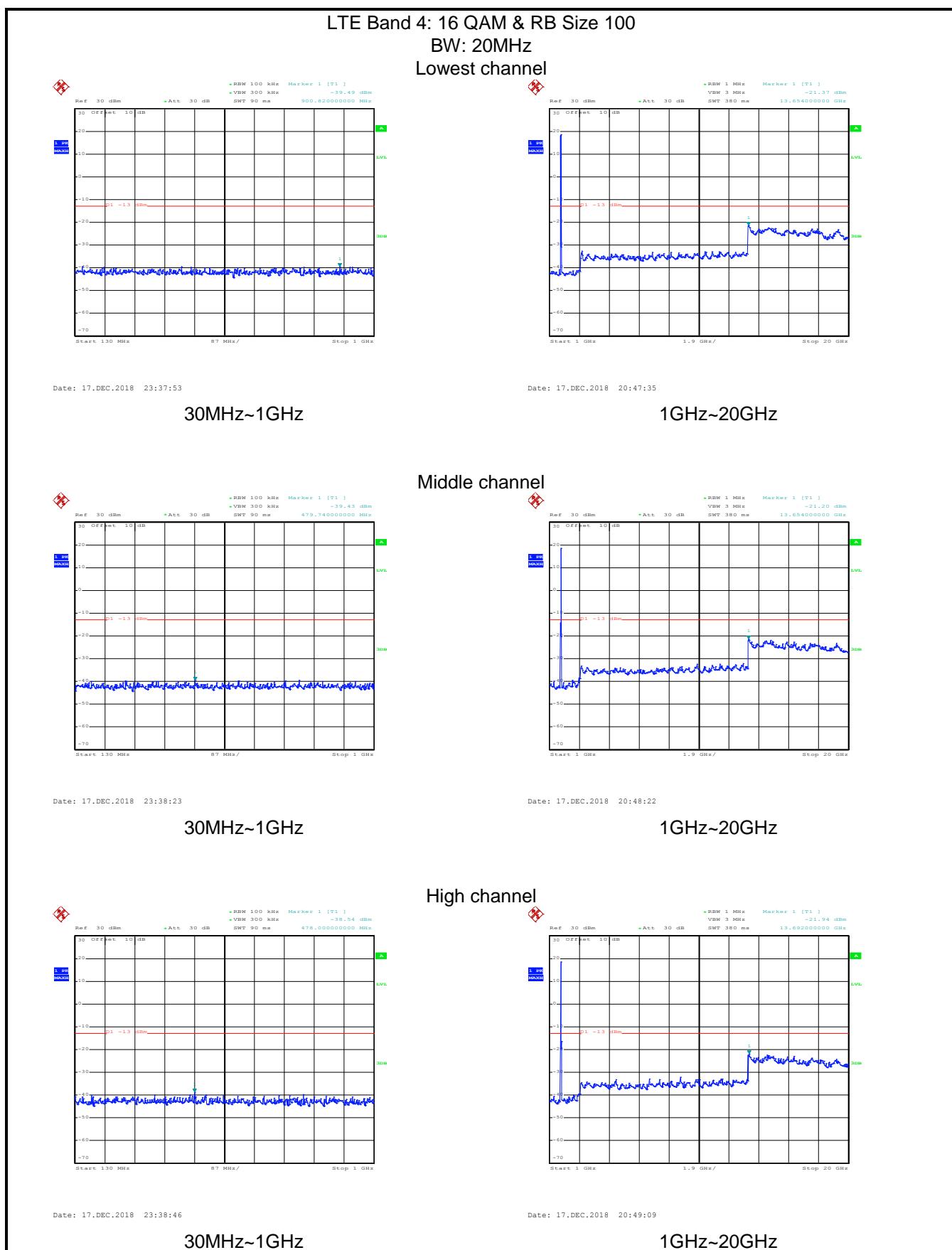


Date: 17.DEC.2018 23:38:37

30MHz~1GHz

Date: 17.DEC.2018 20:48:51

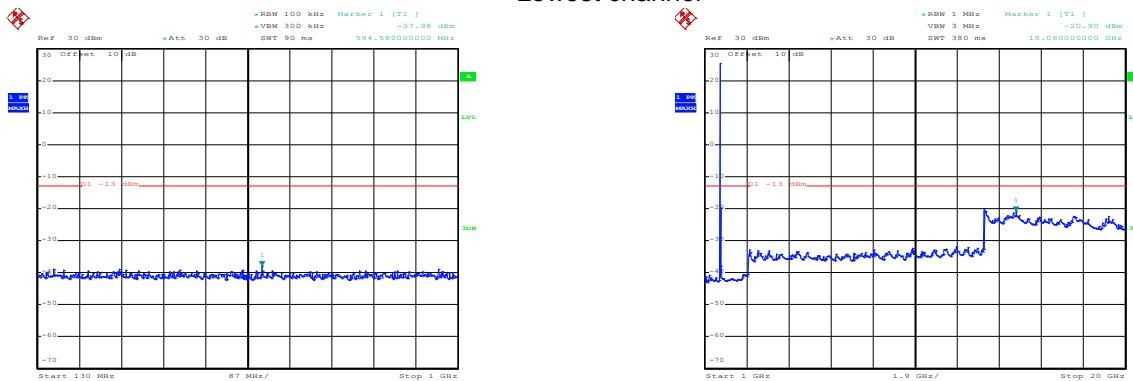
1GHz~20GHz



## LTE Band 4: QPSK &amp; RB Size 1

BW: 20MHz

Lowest channel



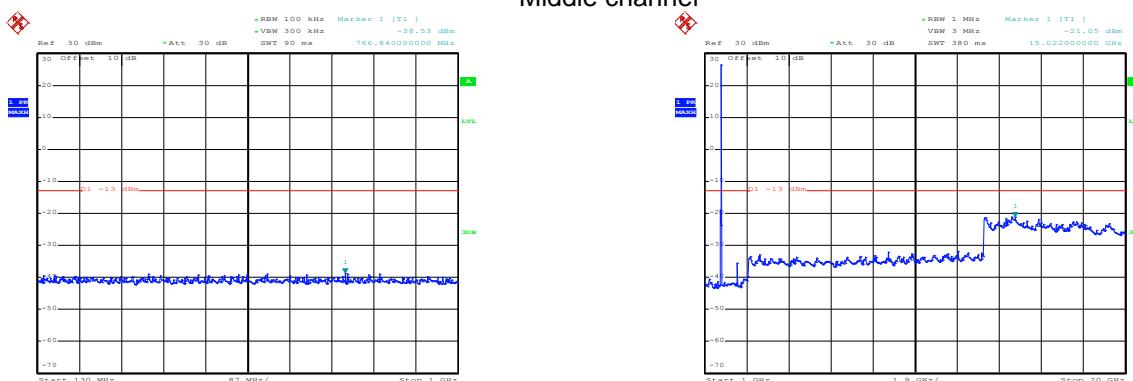
Date: 17.DEC.2018 23:37:38

30MHz~1GHz

Date: 17.DEC.2018 20:47:05

1GHz~20GHz

## Middle channel



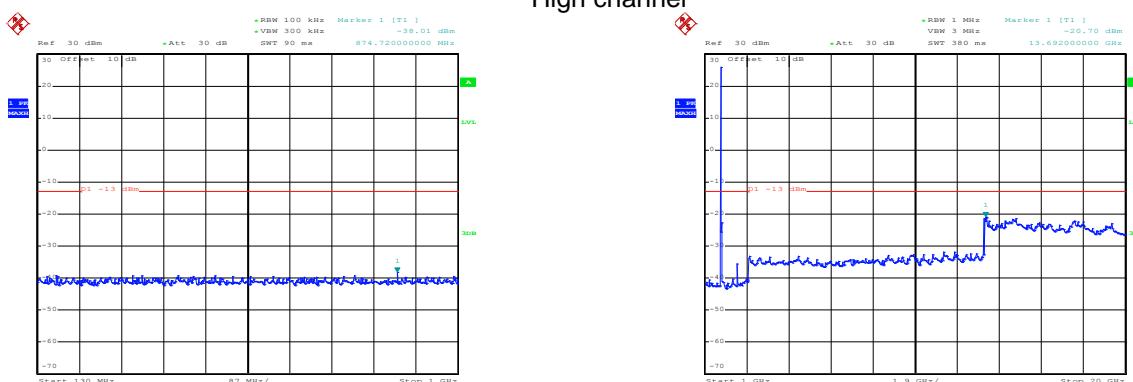
Date: 17.DEC.2018 23:38:03

30MHz~1GHz

Date: 17.DEC.2018 20:47:56

1GHz~20GHz

## High channel



Date: 17.DEC.2018 23:38:33

30MHz~1GHz

Date: 17.DEC.2018 20:48:45

1GHz~20GHz