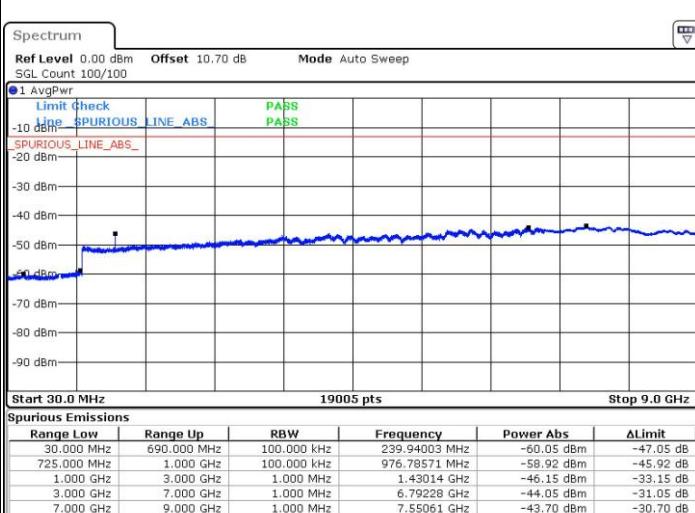
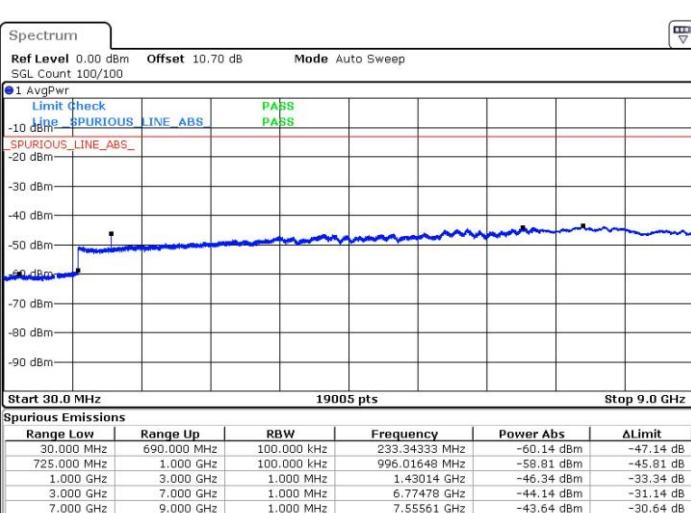




## LTE Band 12 / 1.4MHz

## Highest Channel / QPSK

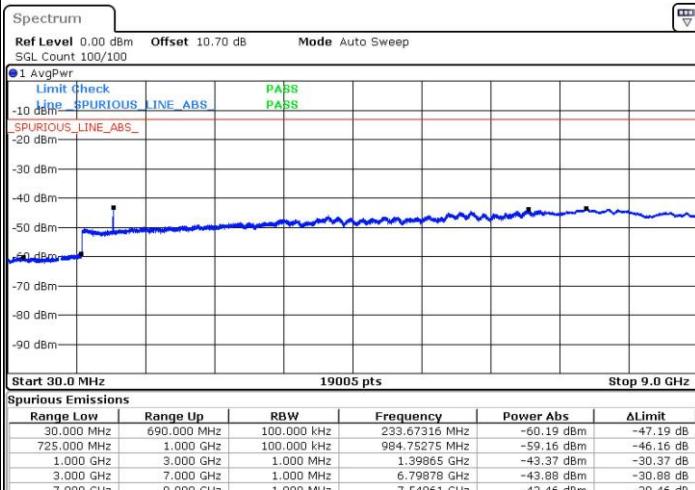
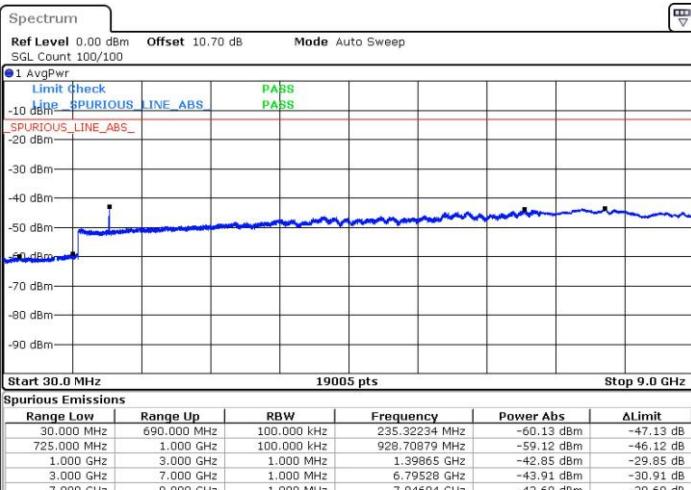
## Highest Channel / 16QAM



## LTE Band 12 / 3MHz

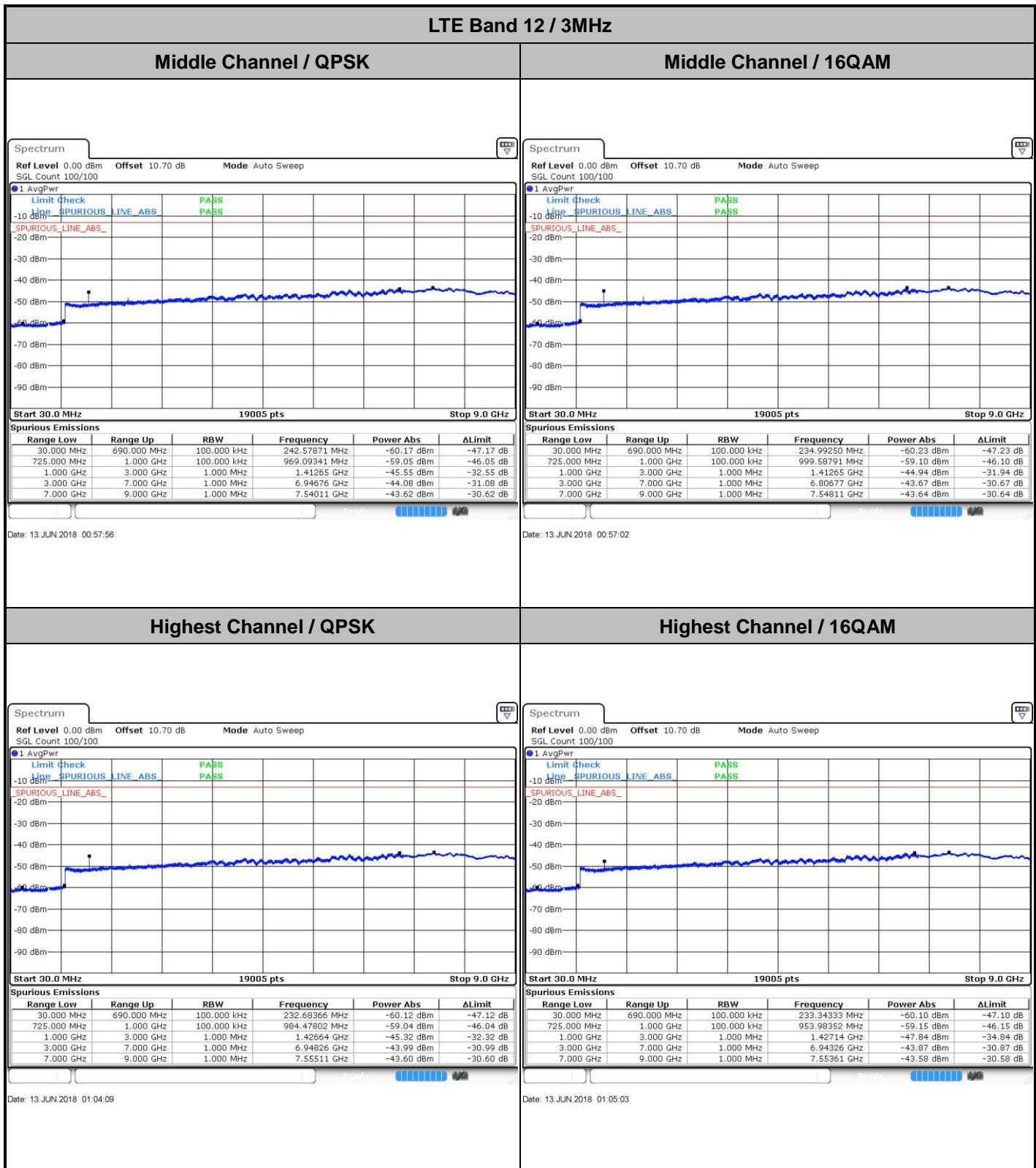
## Lowest Channel / QPSK

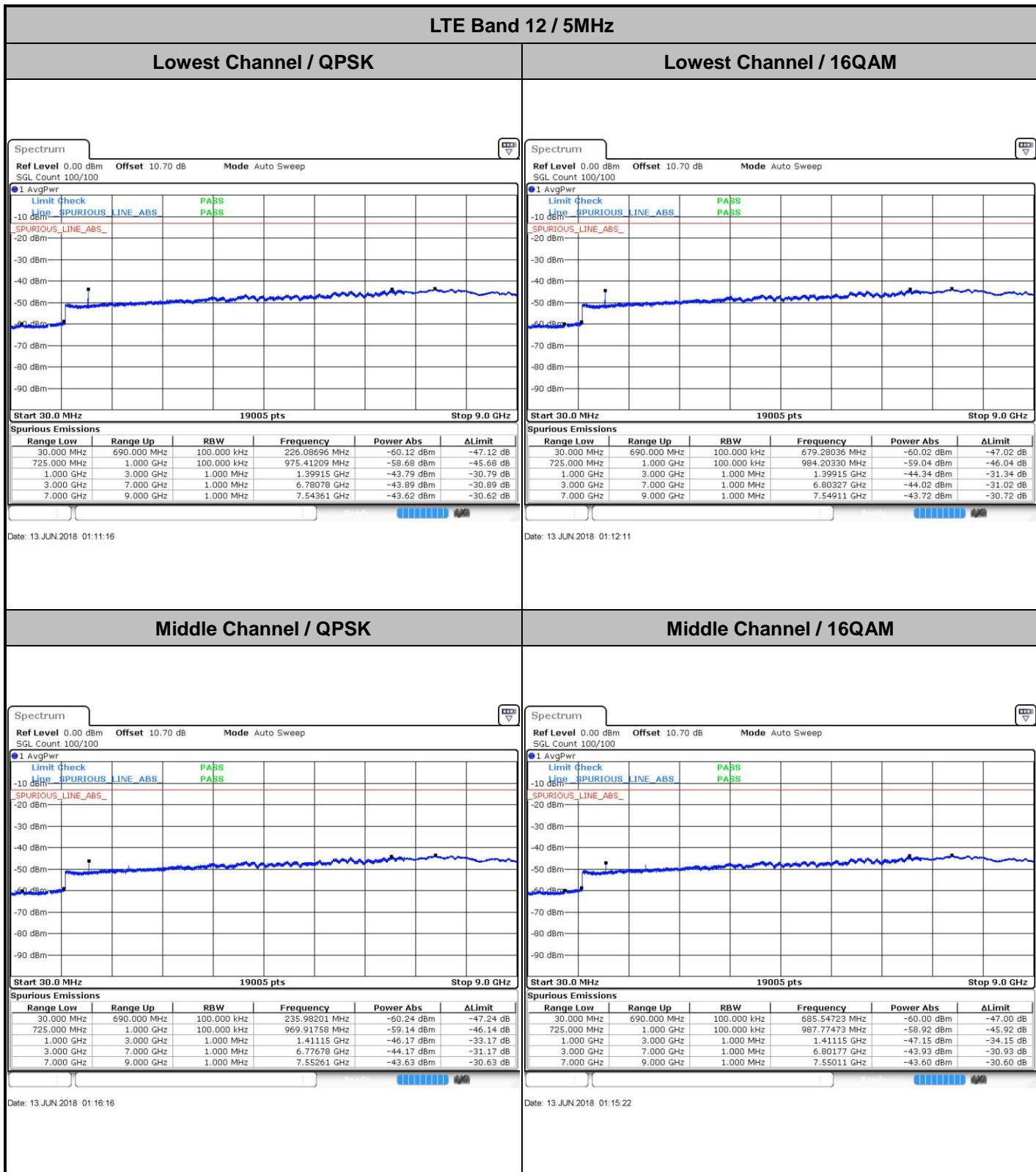
## Lowest Channel / 16QAM



Date: 13.JUN.2018 09:26:07

Date: 13.JUN.2018 09:27:01



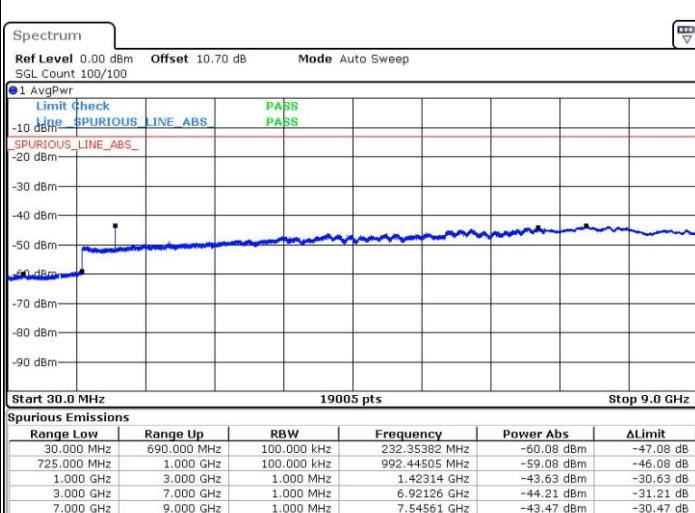
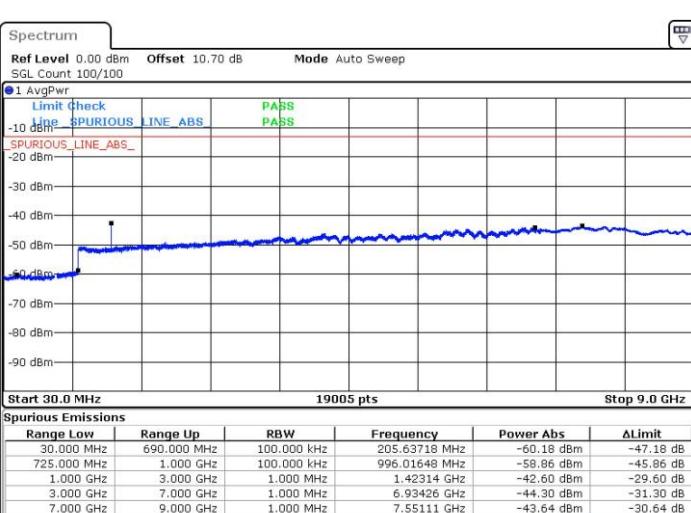




## LTE Band 12 / 5MHz

## Highest Channel / QPSK

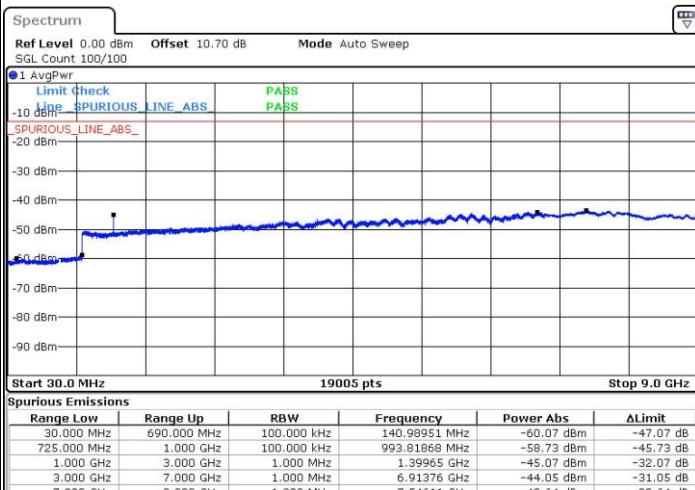
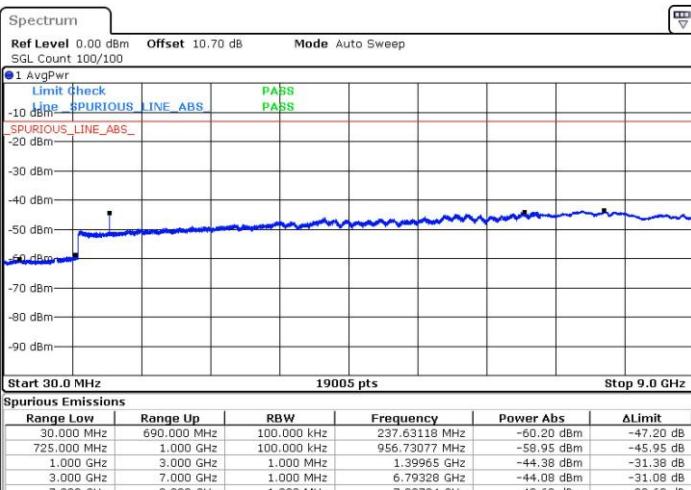
## Highest Channel / 16QAM



## LTE Band 12 / 10MHz

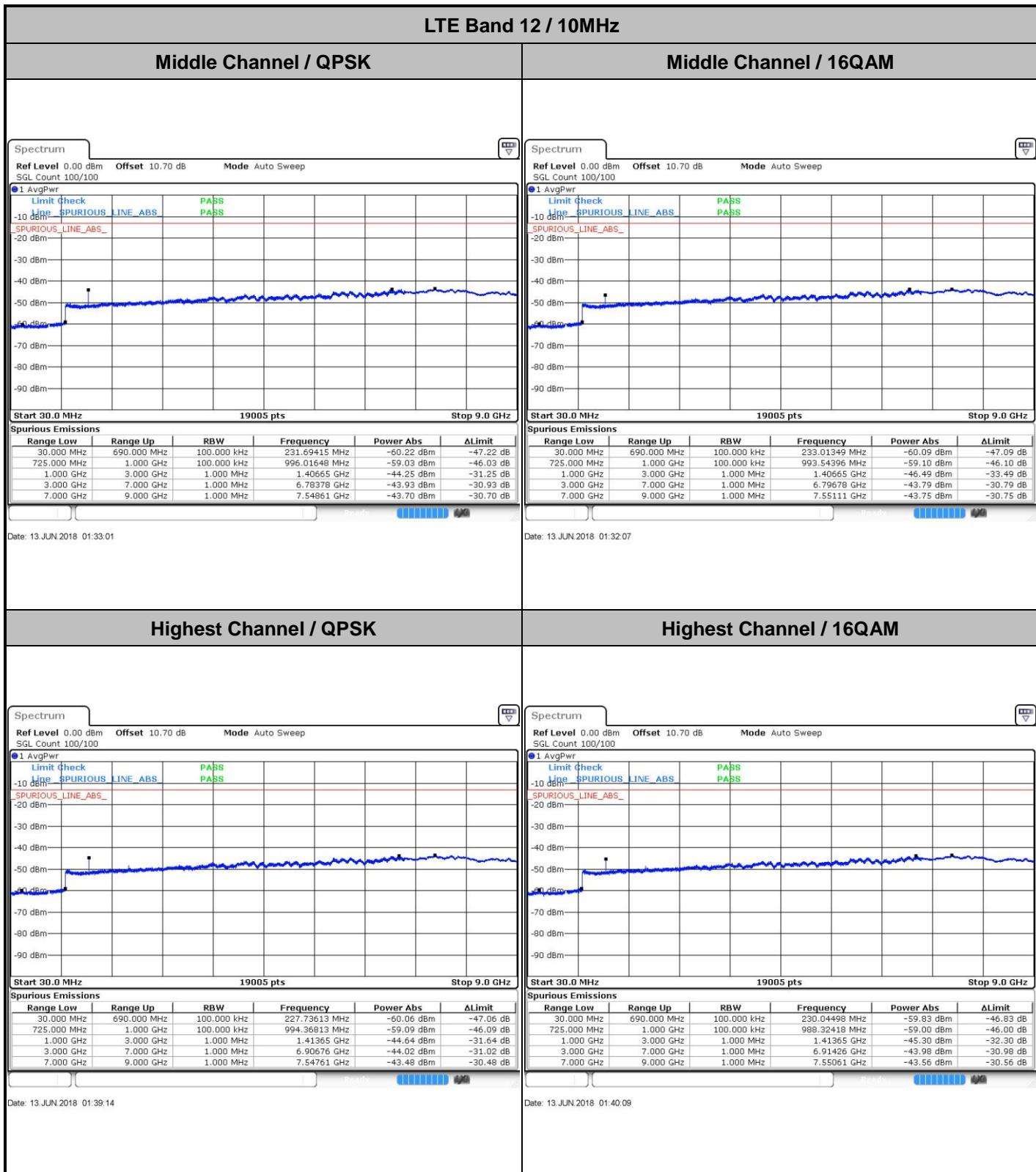
## Lowest Channel / QPSK

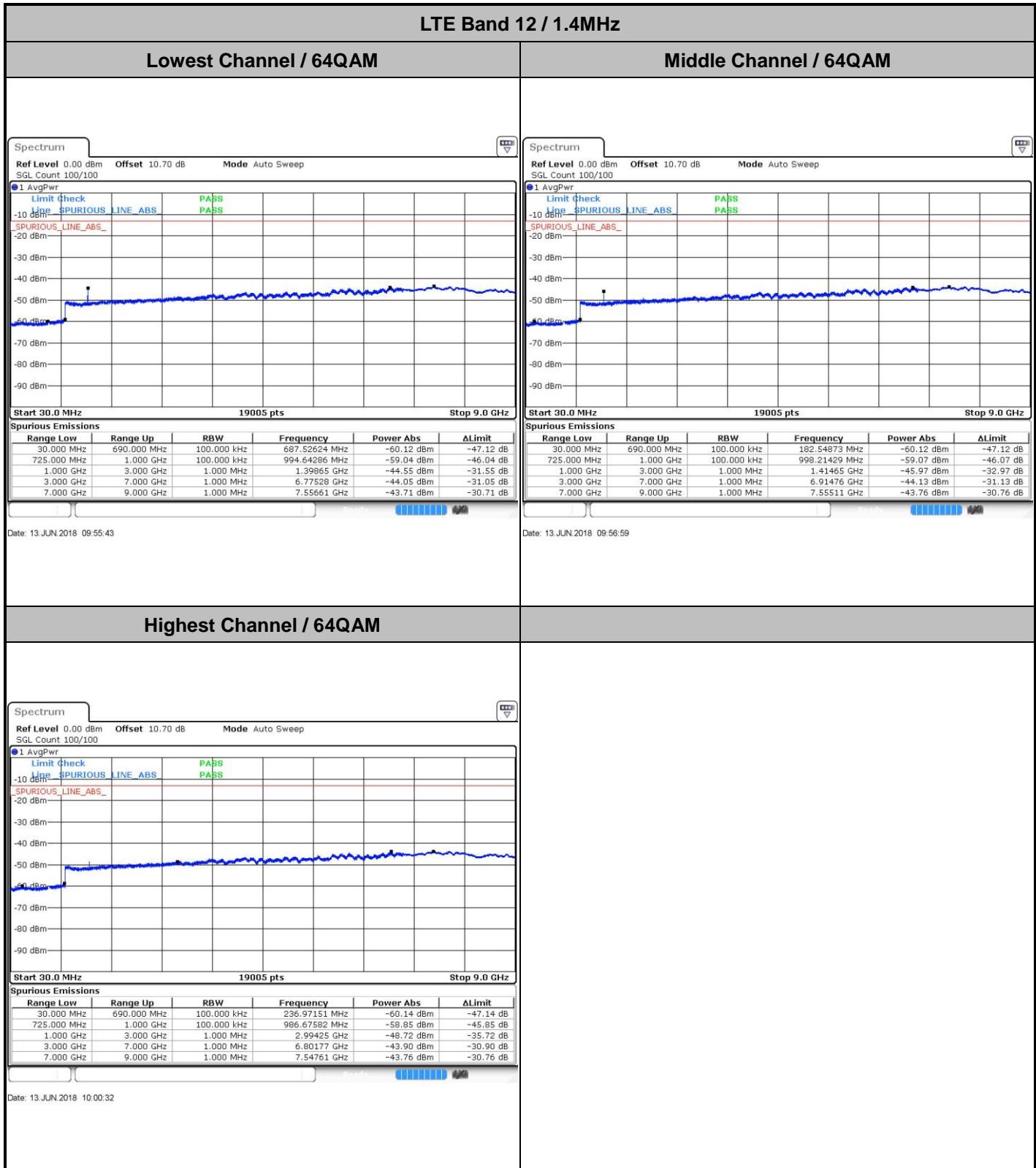
## Lowest Channel / 16QAM

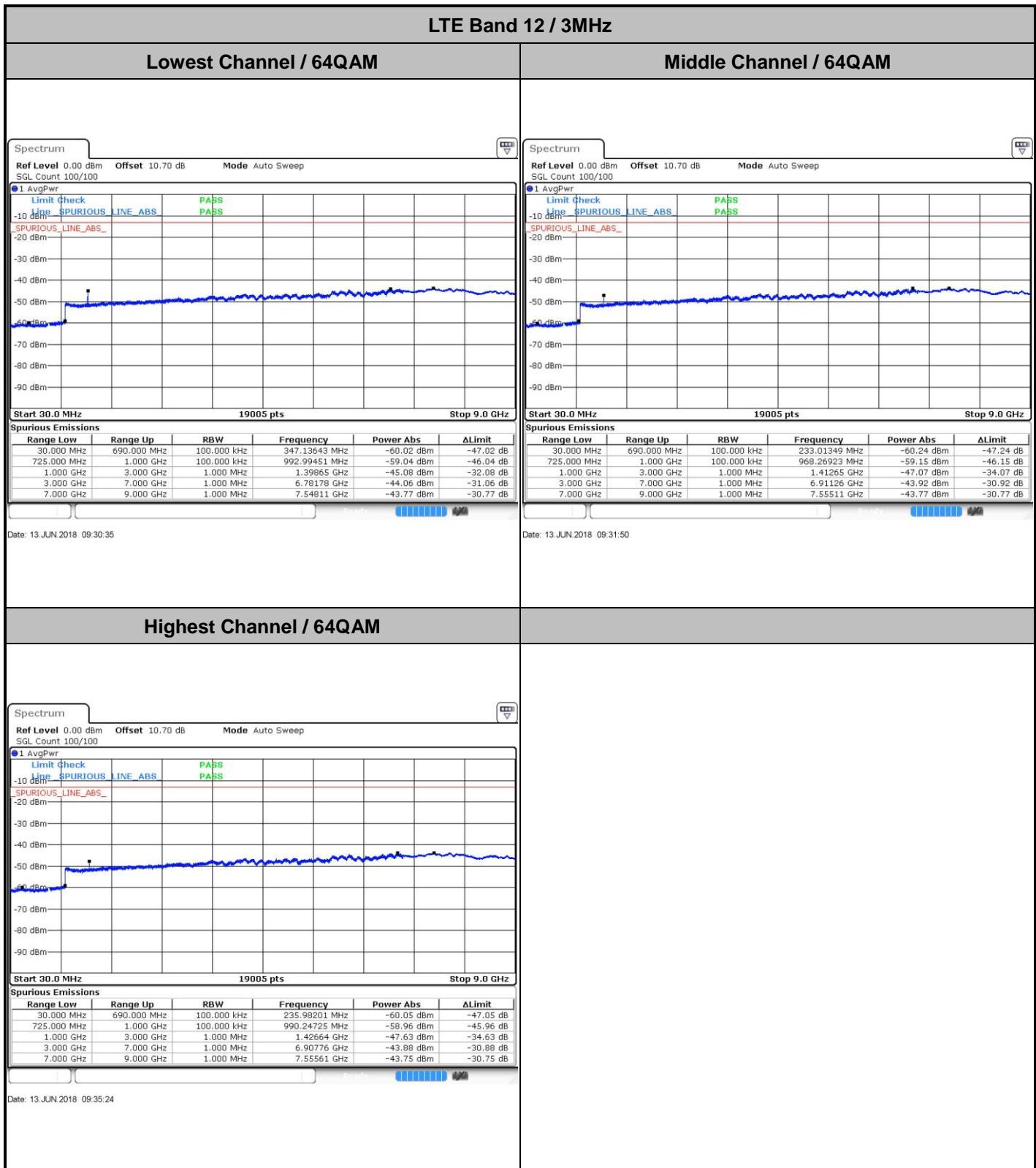


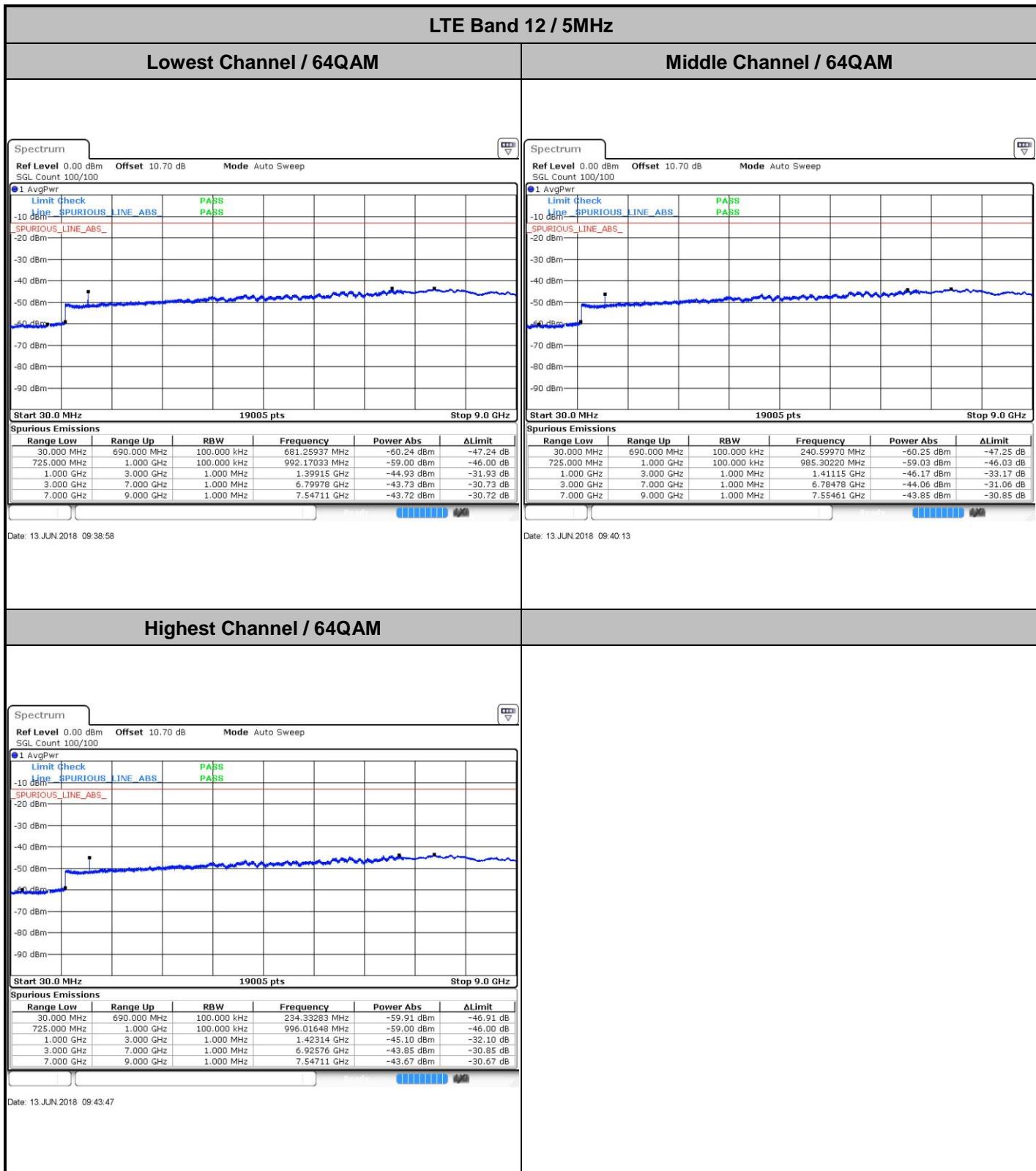
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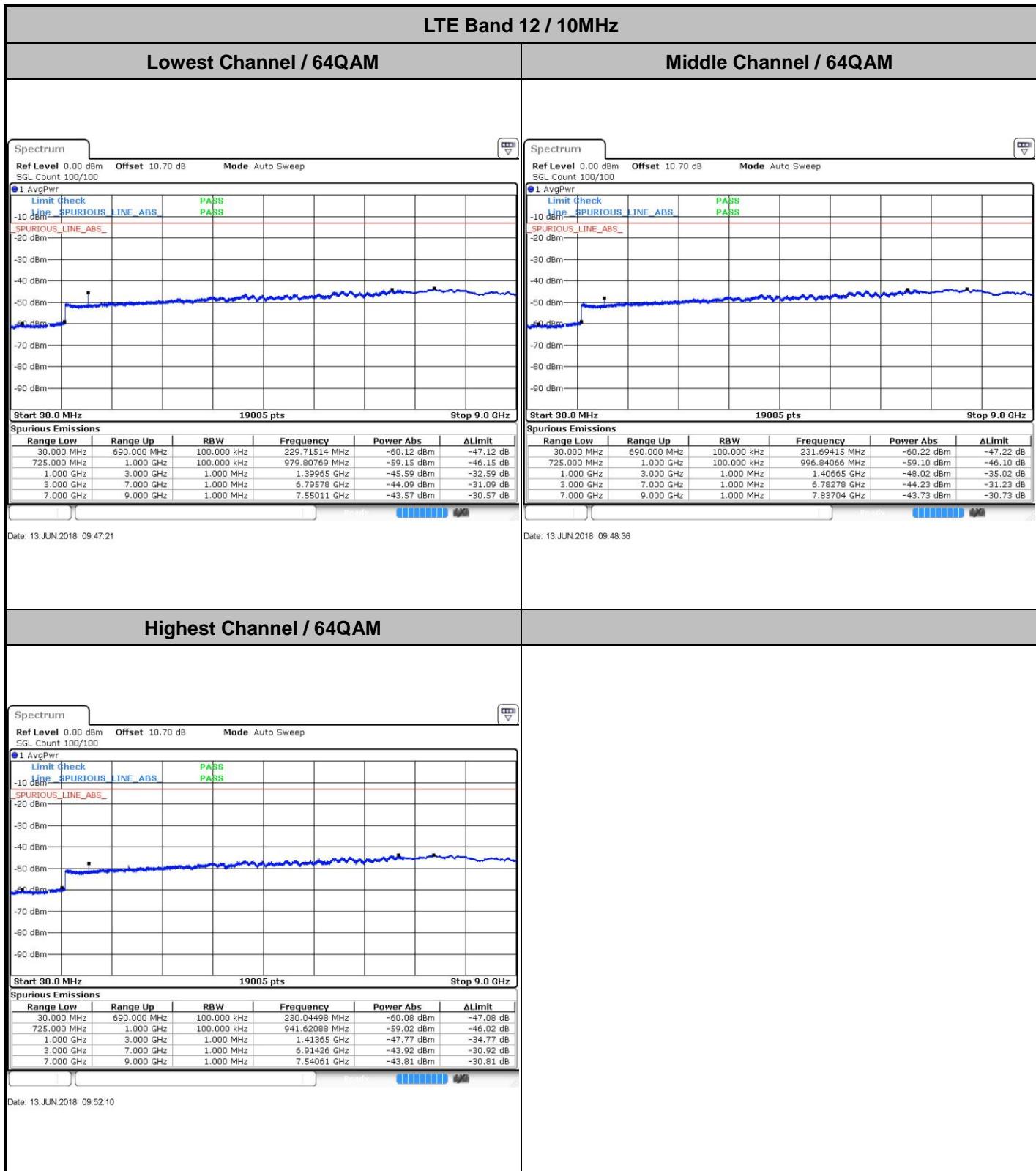
Date: 13.JUN.2018 01:22:29













## Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0028	PASS
40	Normal Voltage	0.0025	
30	Normal Voltage	0.0035	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0001	
-10	Normal Voltage	0.0030	
-20	Normal Voltage	0.0054	
-30	Normal Voltage	0.0047	
20	Maximum Voltage	0.0072	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0007	

**Note:**

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.2 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 13

### Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	4.41	5.57	5.07	6.41	
Highest CH	-	-	-	-	
Mode	LTE Band 13 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	-	-	-	-	PASS
Middle CH	5.94	6.78	-	-	
Highest CH	-	-	-	-	

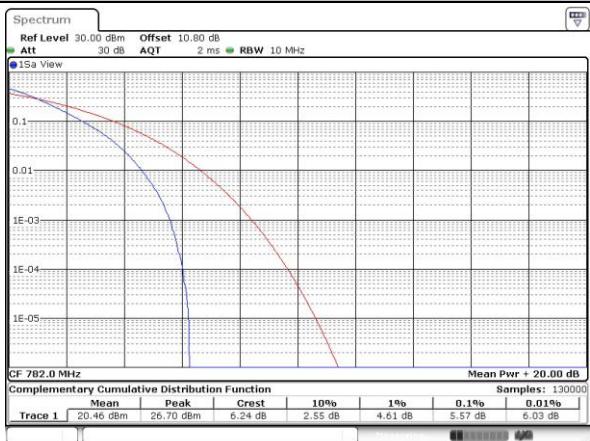


## LTE Band 13 / 10MHz / QPSK

## Middle Channel / 1RB

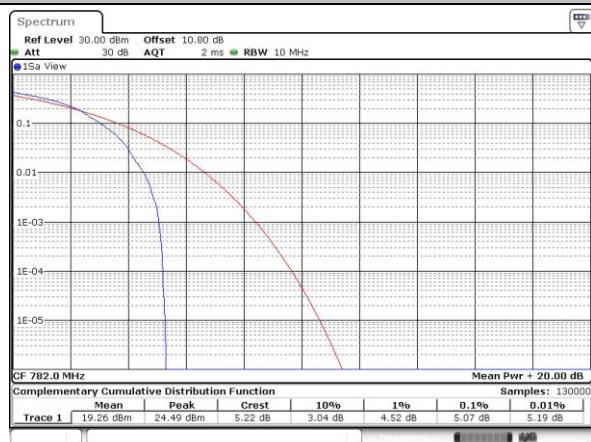


## Middle Channel / Full RB

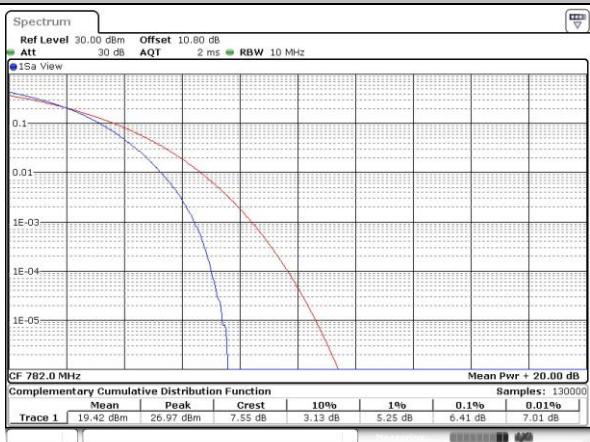


## LTE Band 13 / 10MHz / 16QAM

## Middle Channel / 1RB

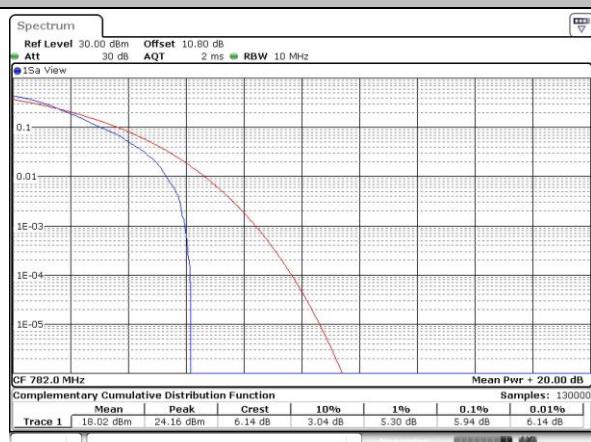


## Middle Channel / Full RB

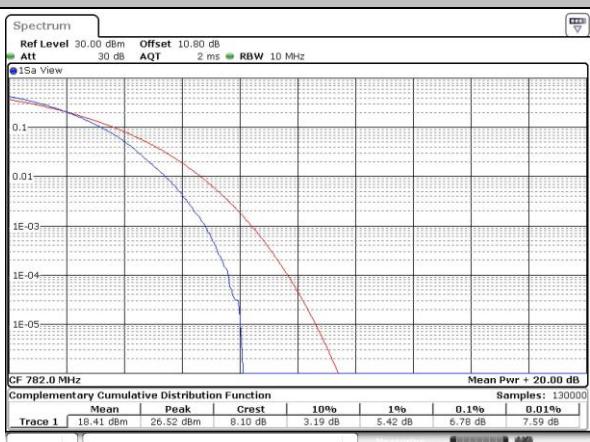


## LTE Band 13 / 10MHz / 64QAM

## Middle Channel / 1RB

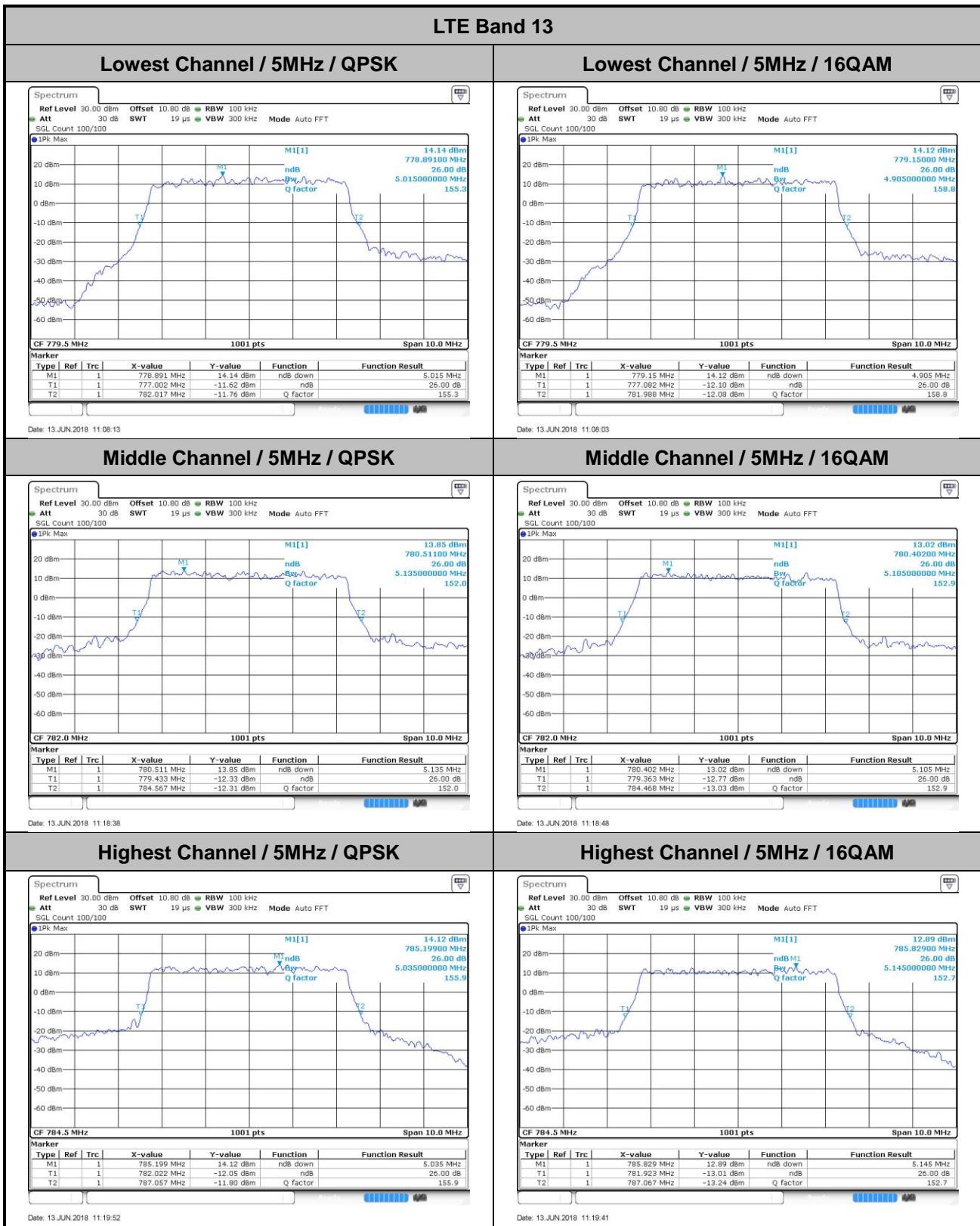


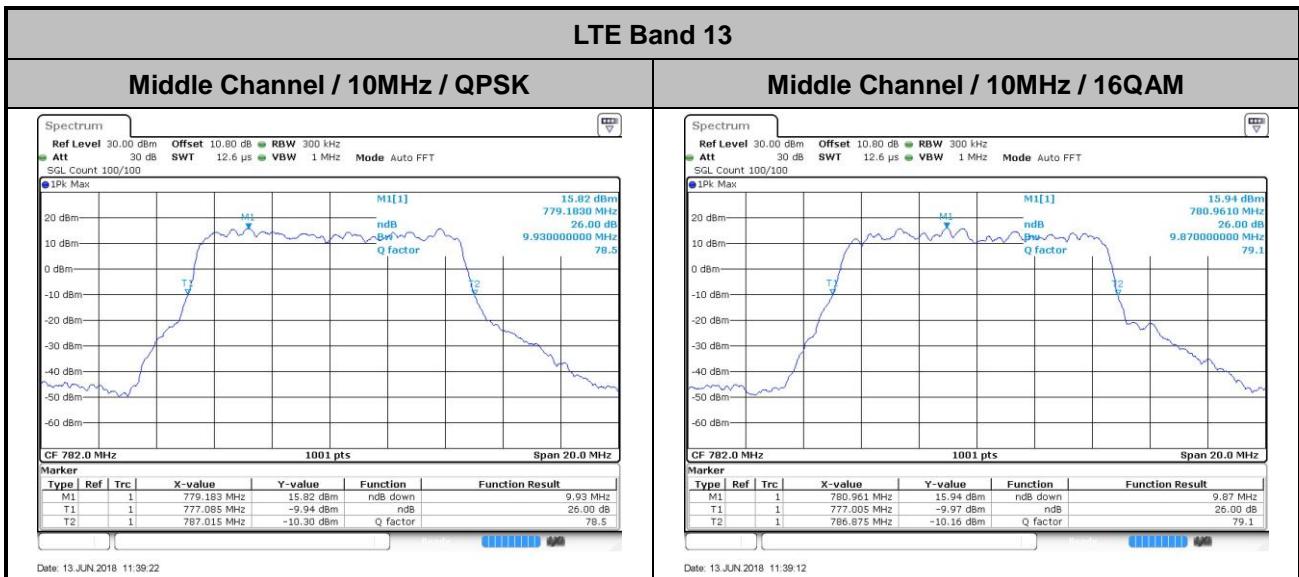
## Middle Channel / Full RB

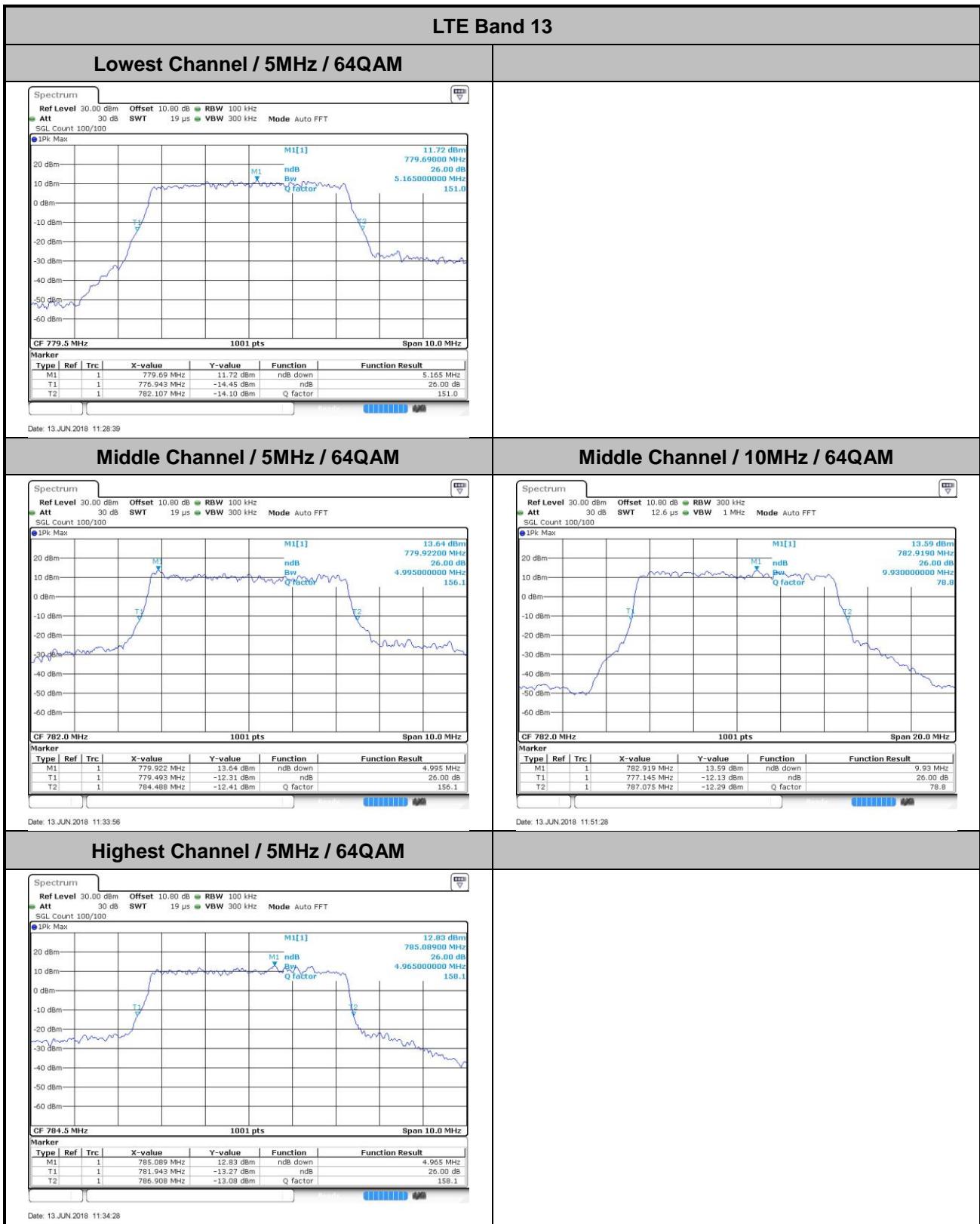


**26dB Bandwidth**

Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	5.02	4.91	-	-	-	-	-	-
Middle CH	-	-	-	-	5.14	5.11	9.93	9.87	-	-	-	-
Highest CH	-	-	-	-	5.04	5.15	-	-	-	-	-	-
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	5.17	-	-	-	-	-	-	-
Middle CH	-	-	-	-	5.00	-	9.93	-	-	-	-	-
Highest CH	-	-	-	-	4.97	-	-	-	-	-	-	-

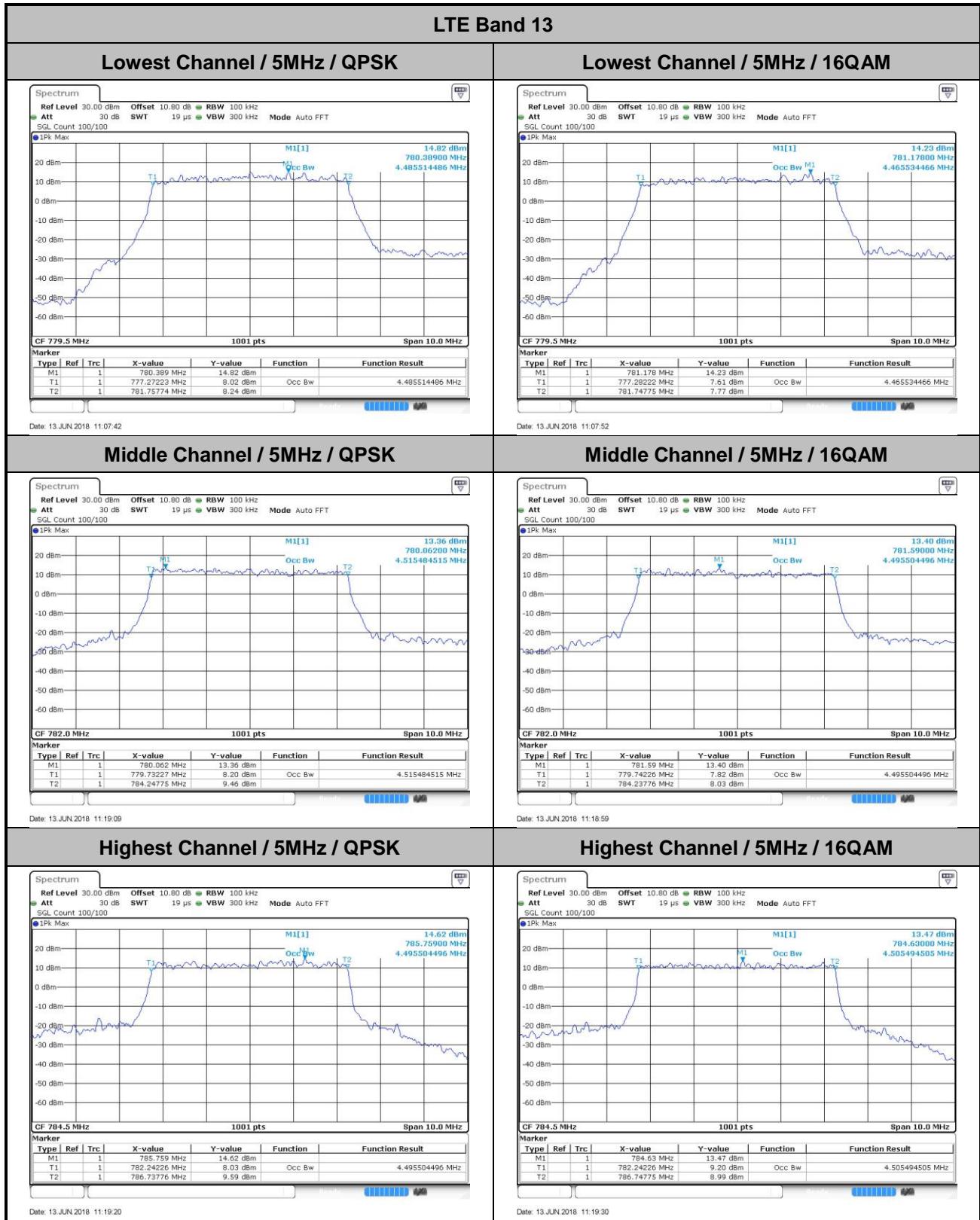


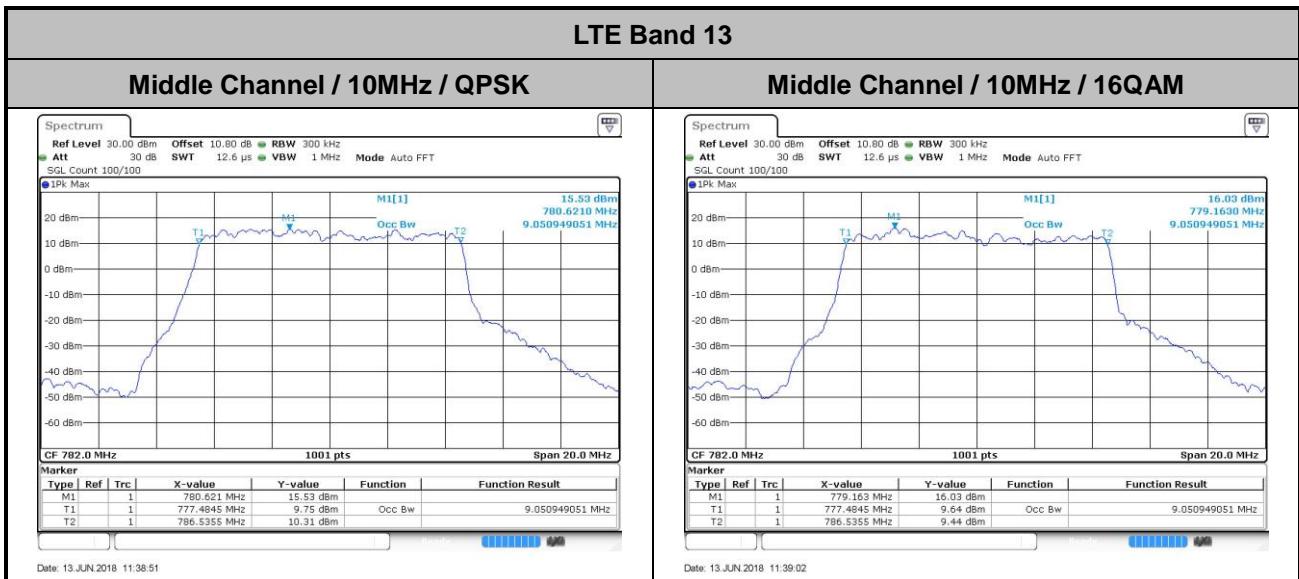


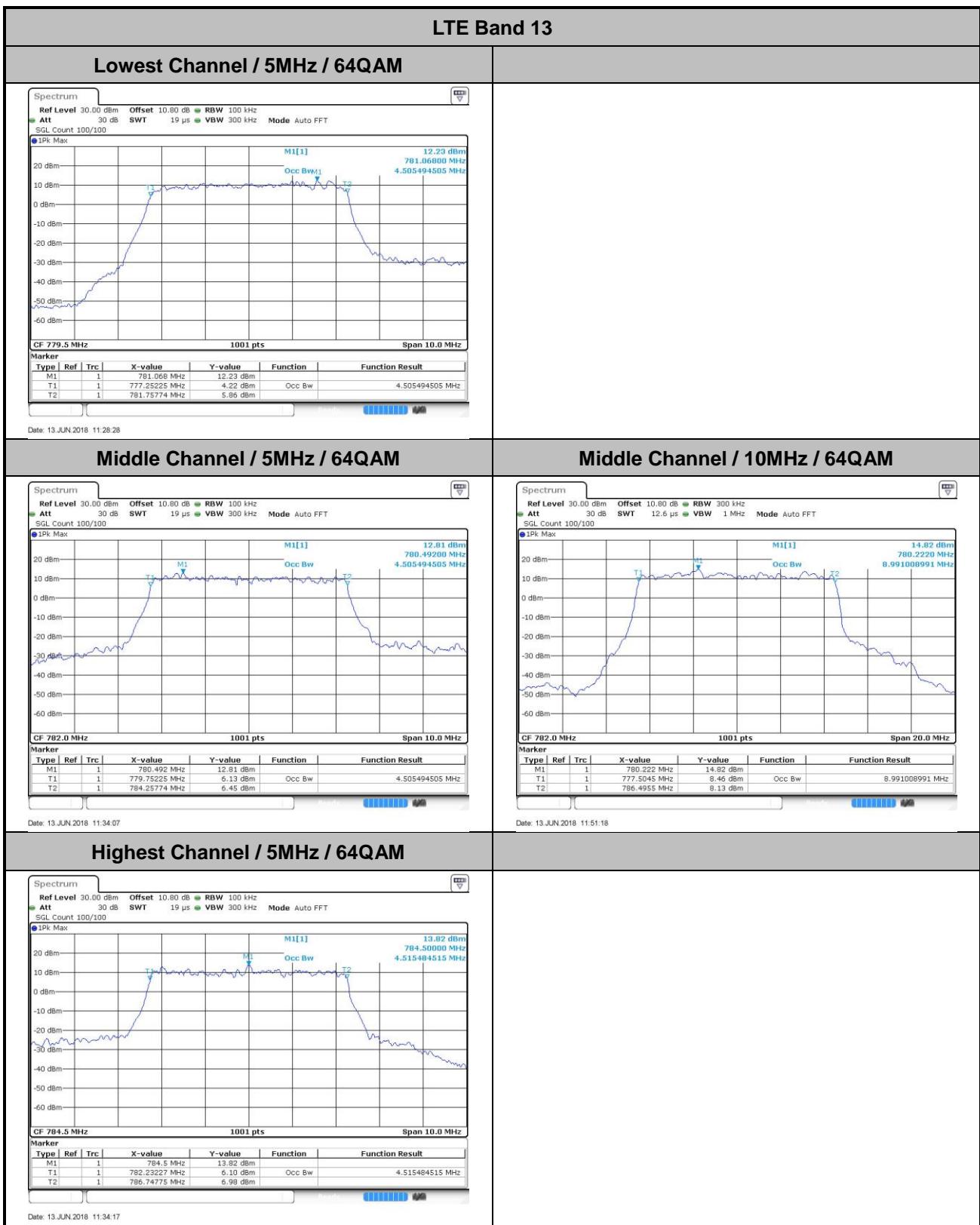


**Occupied Bandwidth**

Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.49	4.47	-	-	-	-	-	-
Middle CH	-	-	-	-	4.52	4.5	9.05	9.05	-	-	-	-
Highest CH	-	-	-	-	4.5	4.51	-	-	-	-	-	-
Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.51	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.51	-	8.99	-	-	-	-	-
Highest CH	-	-	-	-	4.52	-	-	-	-	-	-	-

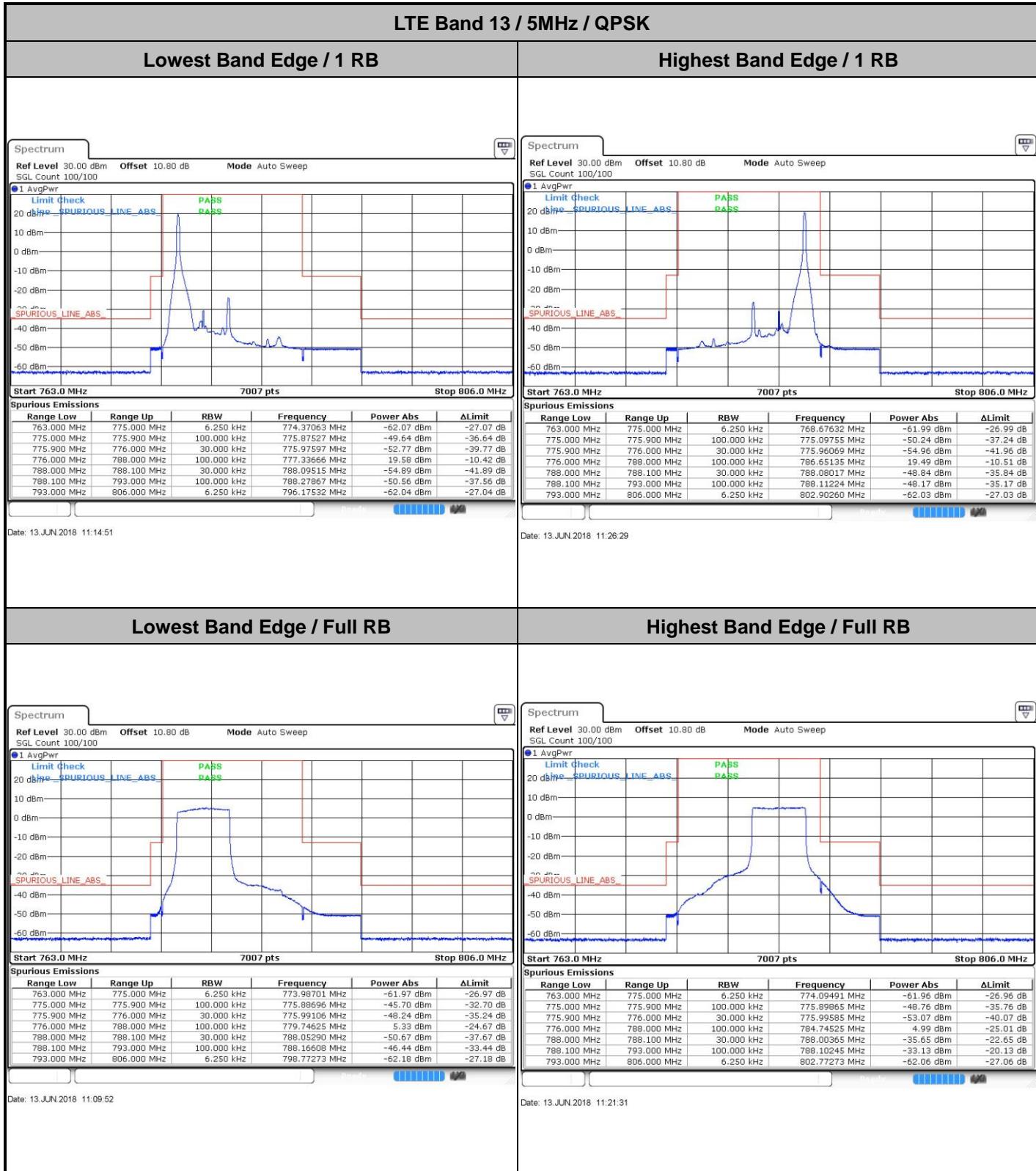


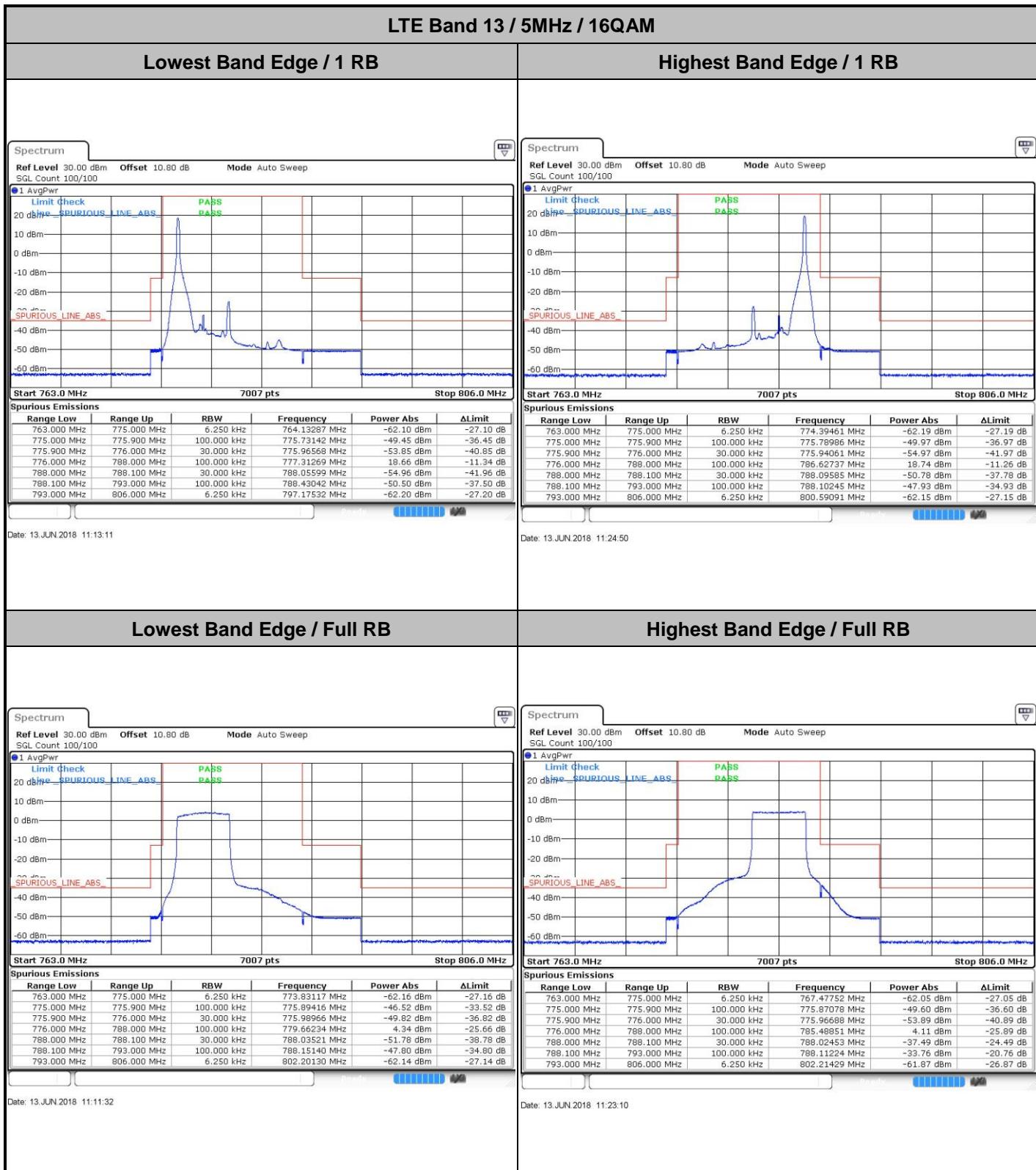


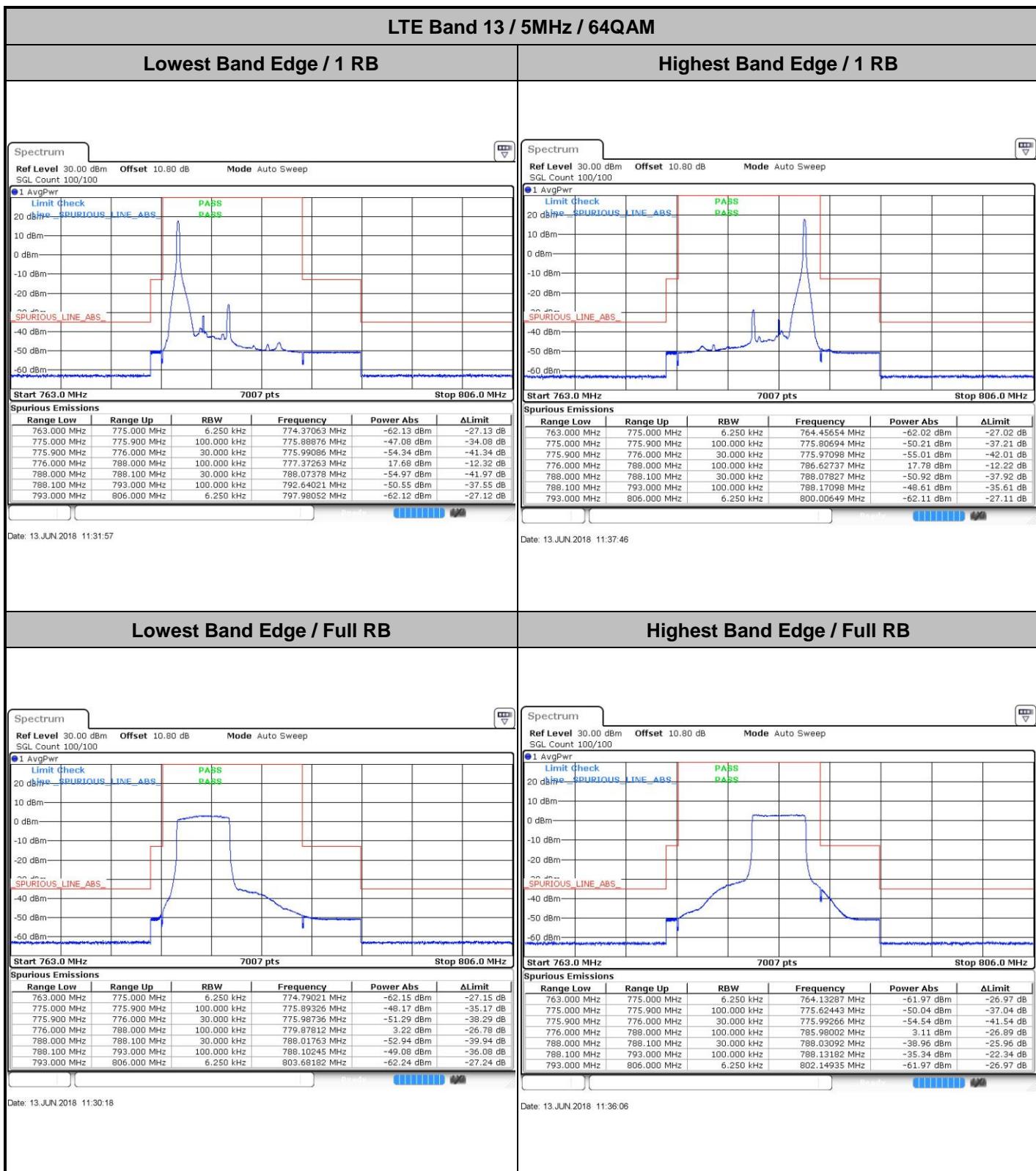




## Conducted Band Edge





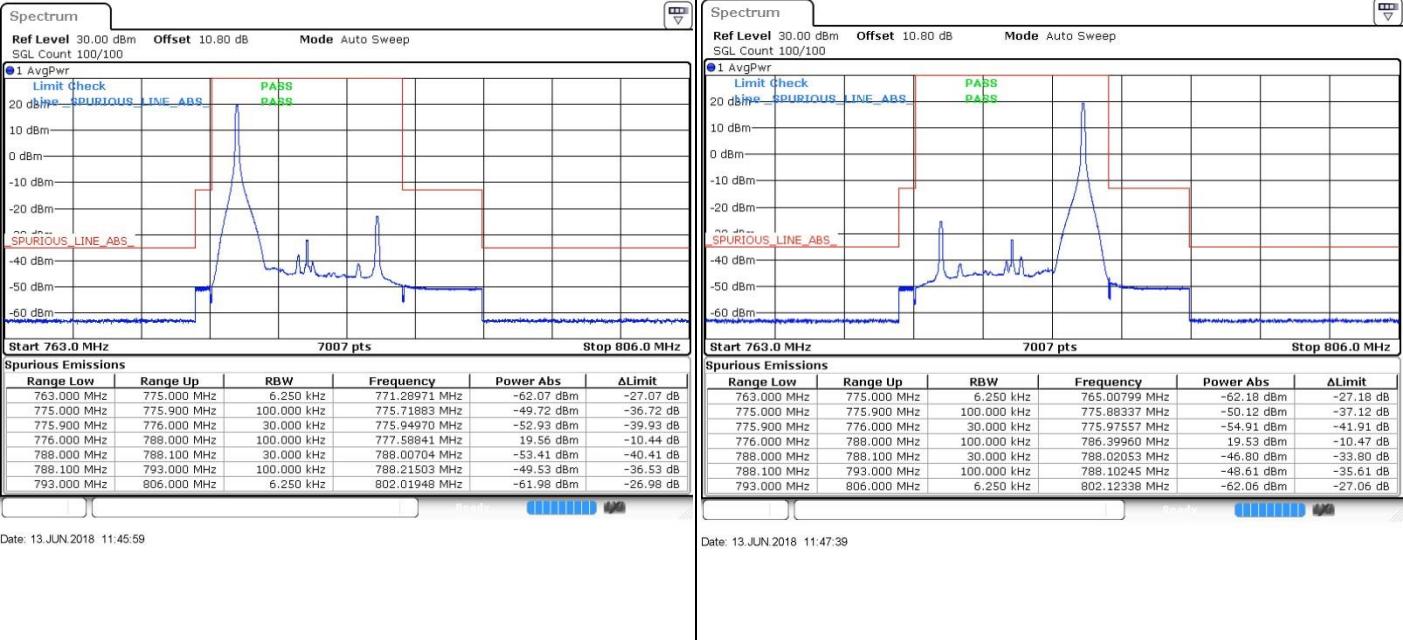




## LTE Band 13 / 10MHz / QPSK

## Lowest Band Edge / 1 RB

## Highest Band Edge / 1 RB



## Band Edge / Full RB

