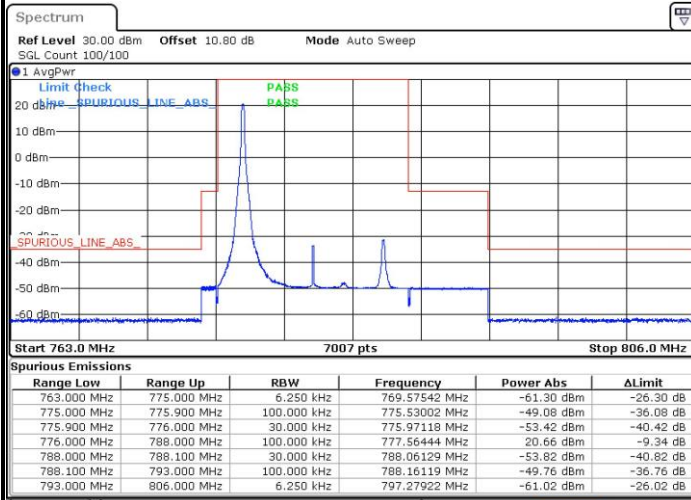




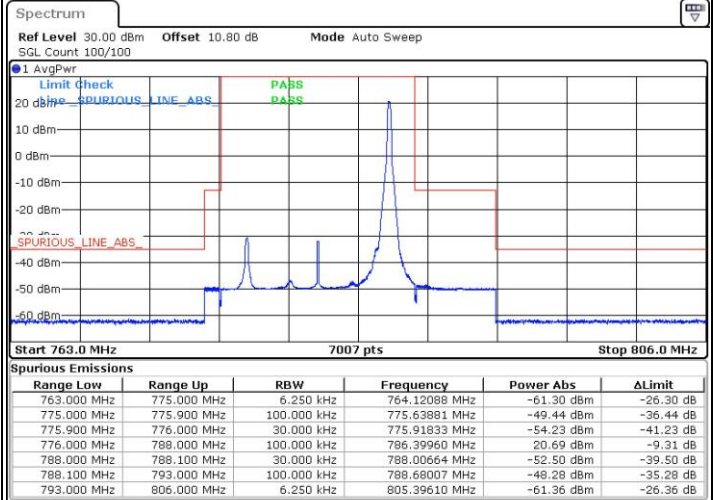
LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



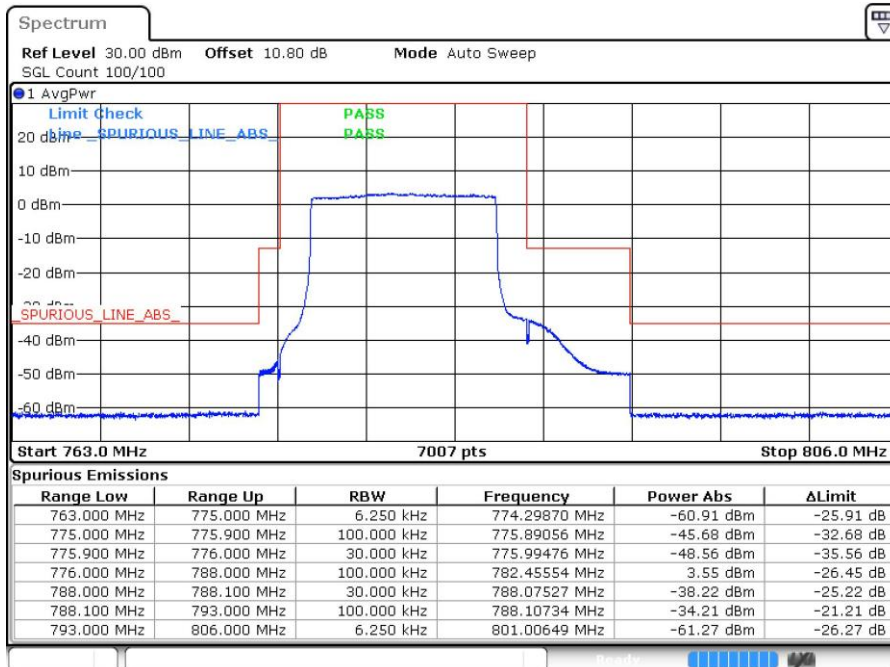
Date: 22.OCT.2018 23:35:34

Highest Band Edge / 1 RB



Date: 22.OCT.2018 23:40:34

Band Edge / Full RB

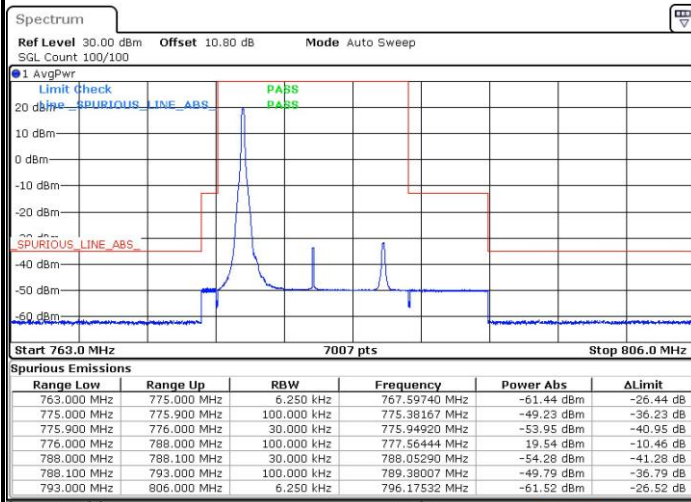


Date: 22.OCT.2018 23:33:53



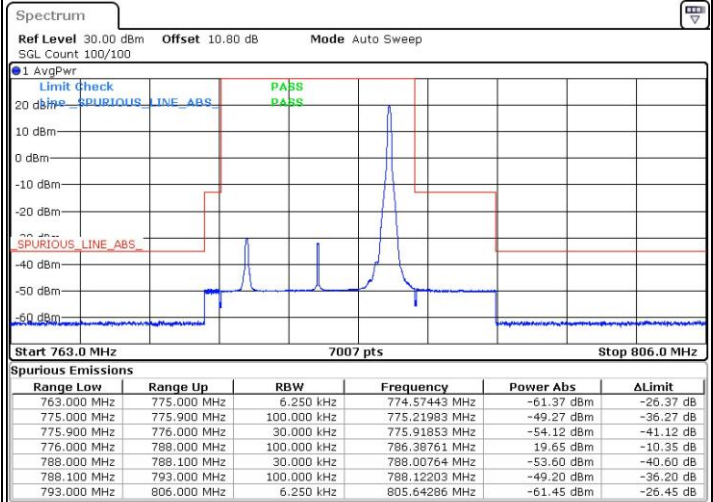
LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



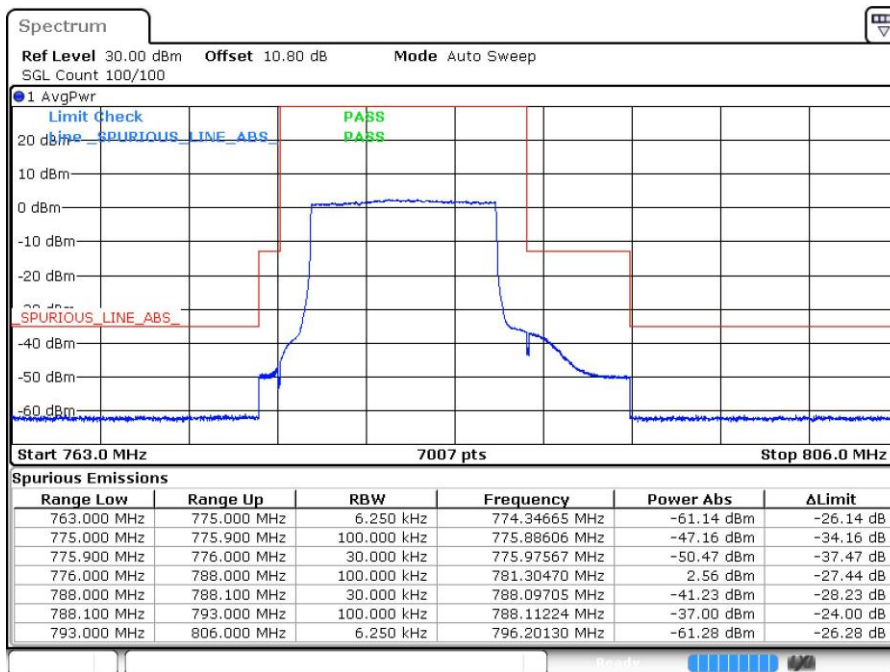
Date: 22.OCT.2018 23:45:37

Highest Band Edge / 1 RB



Date: 22.OCT.2018 23:47:18

Band Edge / Full RB



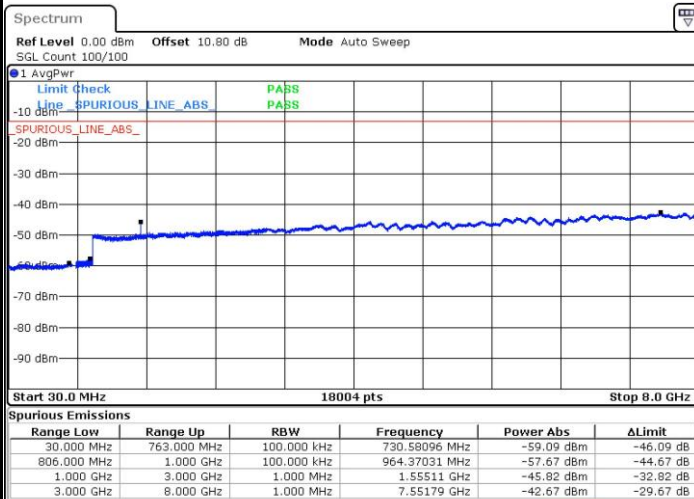
Date: 22.OCT.2018 23:43:57



Conducted Spurious Emission

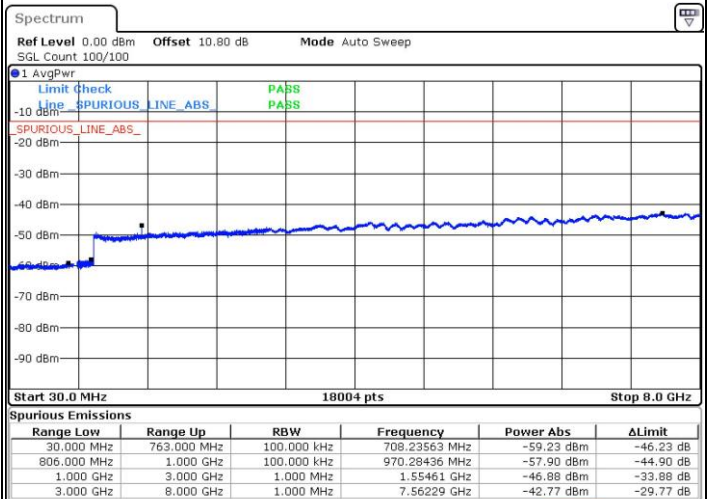
LTE Band 13 / 5MHz

Lowest Channel / QPSK



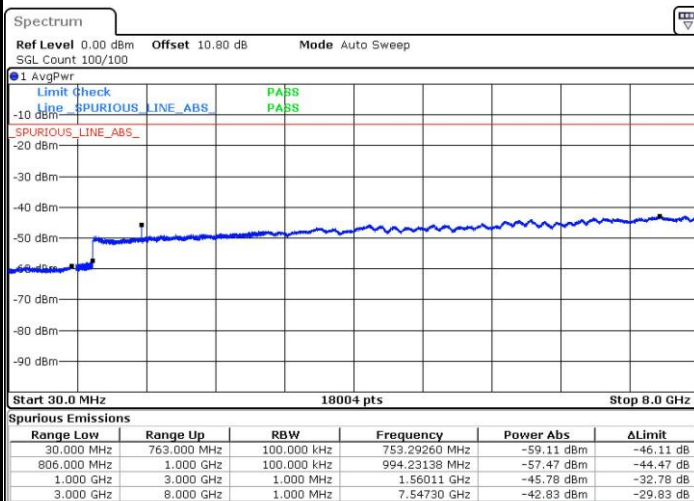
Date: 22 OCT.2018 23:08:27

Lowest Channel / 16QAM



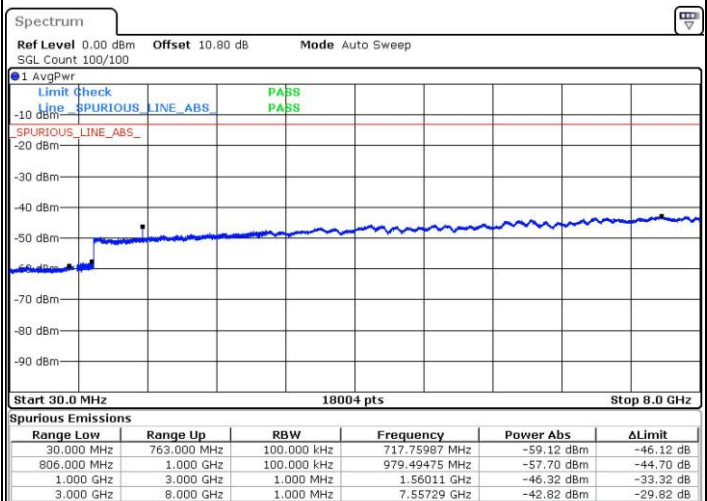
Date: 22 OCT.2018 23:09:07

Middle Channel / QPSK



Date: 22 OCT.2018 23:10:27

Middle Channel / 16QAM

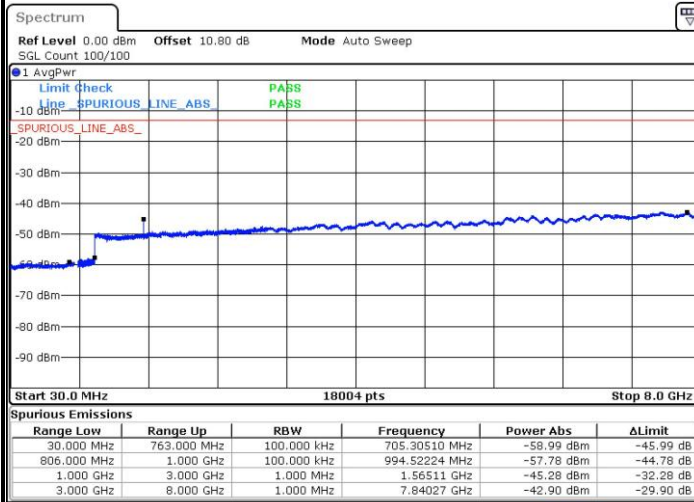


Date: 22 OCT.2018 23:09:47



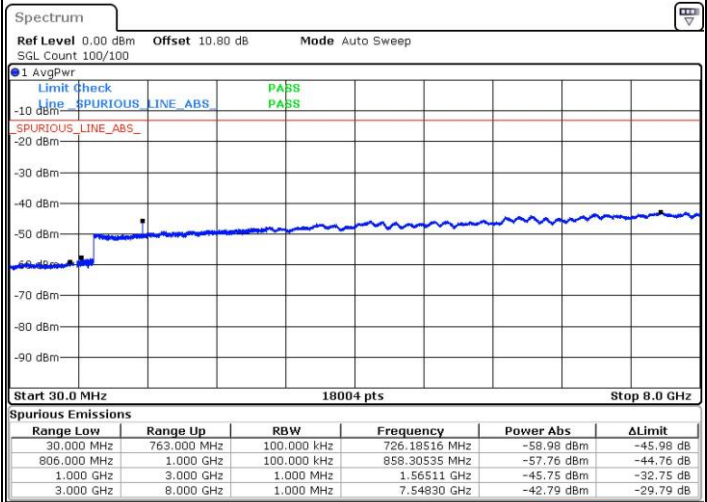
LTE Band 13 / 5MHz

Highest Channel / QPSK



Date: 22 OCT 2018 23:19:19

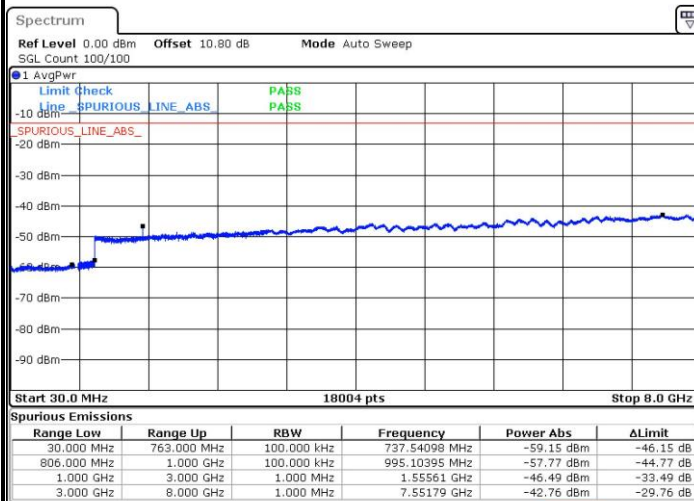
Highest Channel / 16QAM



Date: 22 OCT 2018 23:19:59

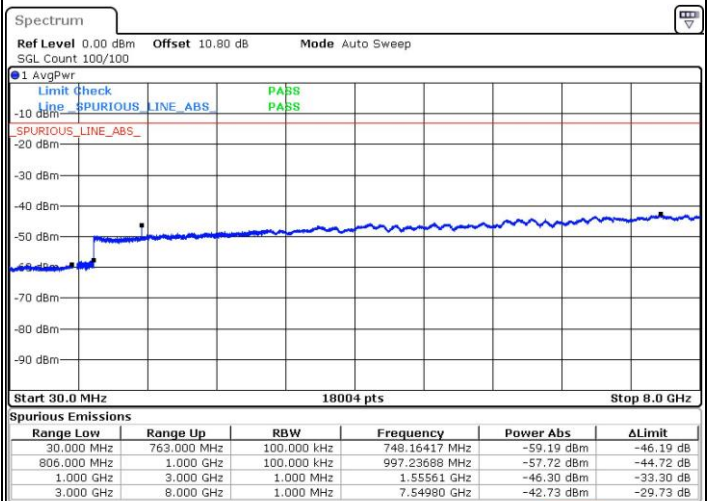
LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 22 OCT 2018 23:41:55

Middle Channel / 16QAM

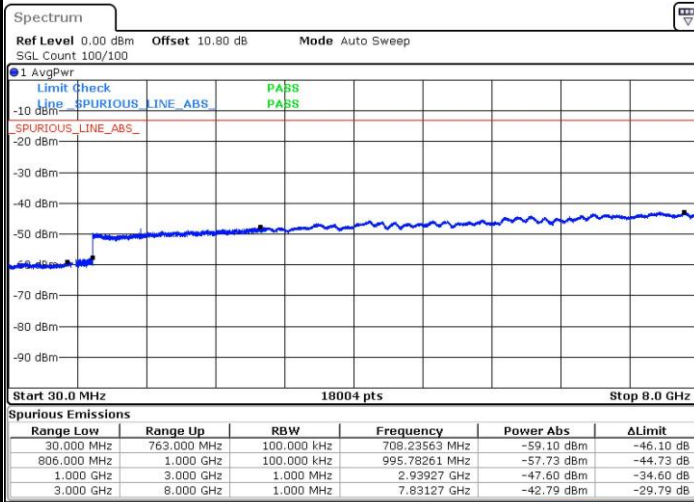


Date: 22 OCT 2018 23:41:15



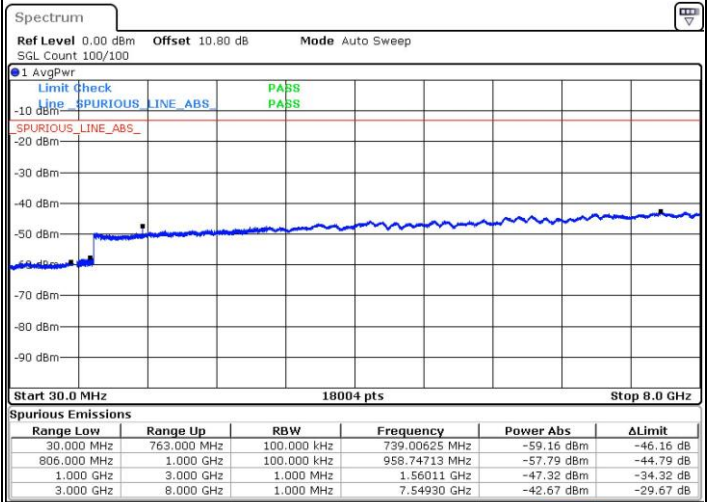
LTE Band 13 / 5MHz

Lowest Channel / 64QAM



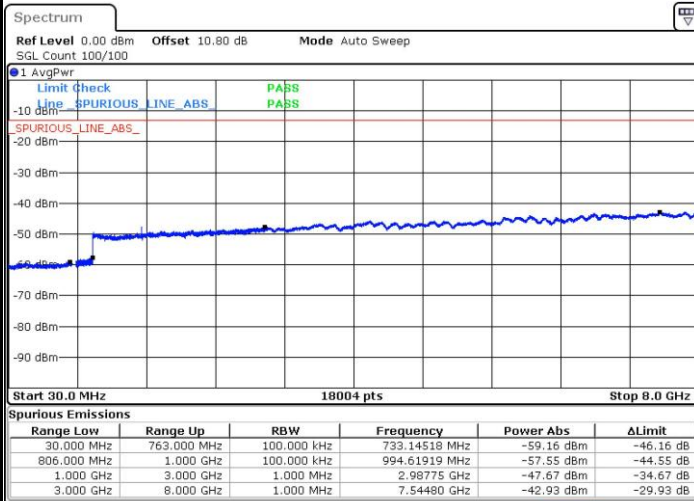
Date: 22 OCT 2018 23:24:22

Middle Channel / 64QAM



Date: 22 OCT 2018 23:25:02

Highest Channel / 64QAM

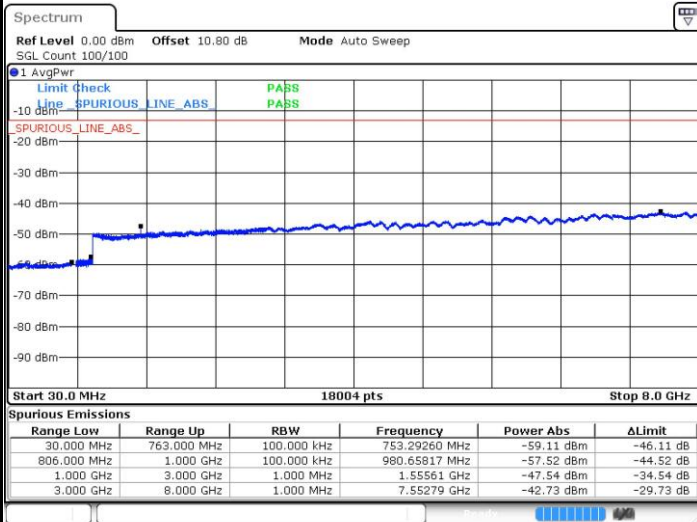


Date: 22 OCT 2018 23:29:48



LTE Band 13 / 10MHz

Middle Channel / 64QAM



Date: 22 OCT.2018 23:47:58

Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0056	PASS
40	Normal Voltage	0.0019	
30	Normal Voltage	0.0036	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0070	
0	Normal Voltage	0.0064	
-10	Normal Voltage	0.0050	
-20	Normal Voltage	0.0041	
-30	Normal Voltage	0.0046	
20	Maximum Voltage	0.0015	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0008	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

LTE Band 17

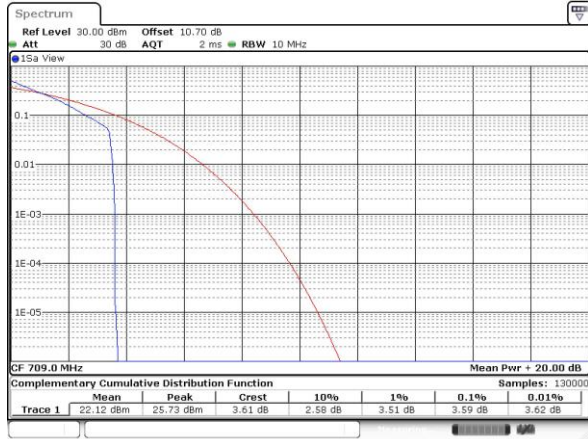
Peak-to-Average Ratio

Mode	LTE Band 17 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.59	4.7	5.22	5.88	PASS
Middle CH	3.62	4.67	5.13	5.91	
Highest CH	3.62	4.64	5.33	6	
Mode	LTE Band 17 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.55	6.64	-	-	PASS
Middle CH	6.70	6.38	-	-	
Highest CH	6.52	6.46	-	-	

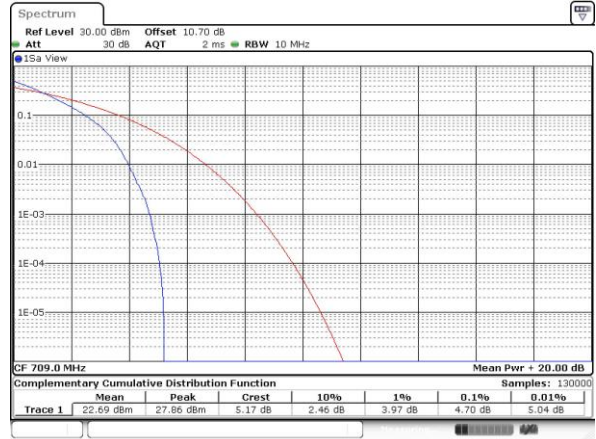


LTE Band 17 / 10MHz / QPSK

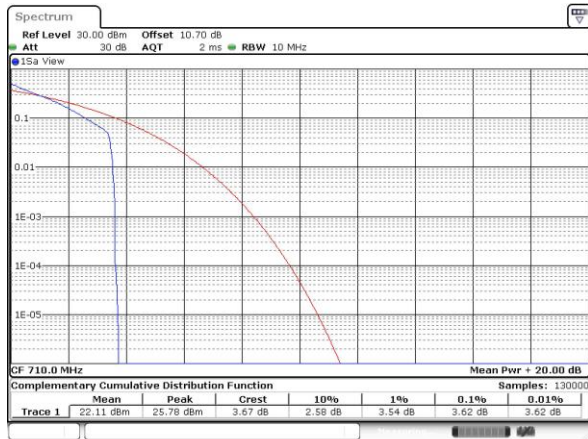
Lowest Channel / 1RB



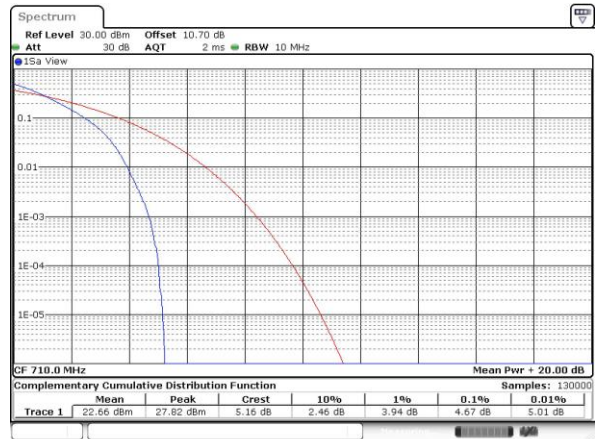
Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



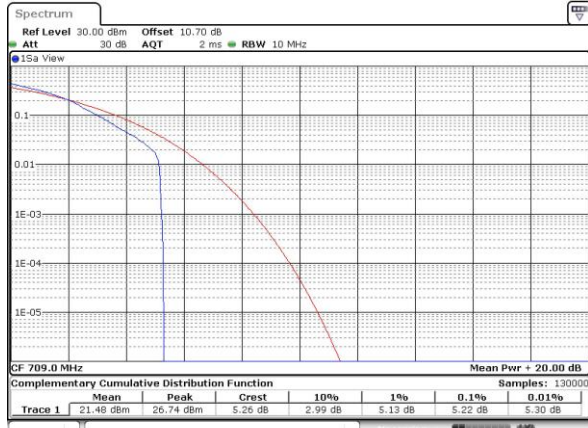
Highest Channel / Full RB



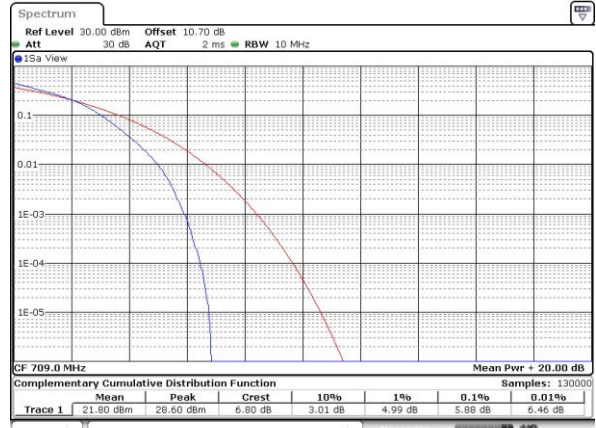


LTE Band 17 / 10MHz / 16QAM

Lowest Channel / 1RB



Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



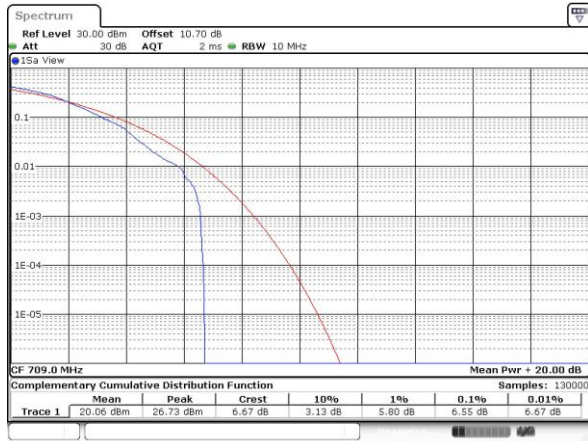
Highest Channel / Full RB



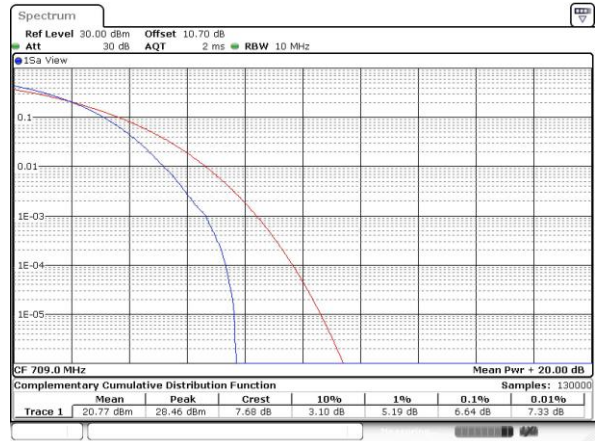


LTE Band 17 / 10MHz / 64QAM

Lowest Channel / 1RB



Lowest Channel / Full RB



Middle Channel / 1RB



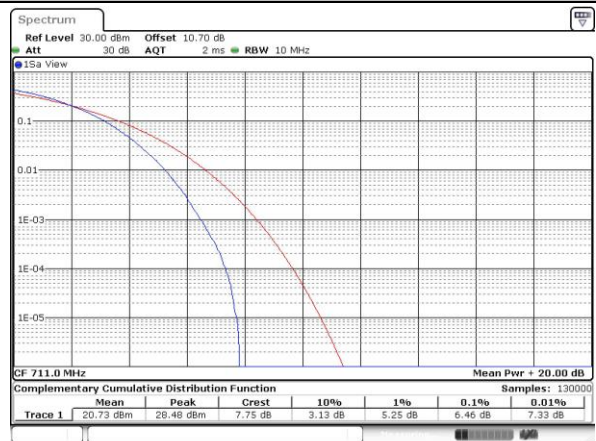
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



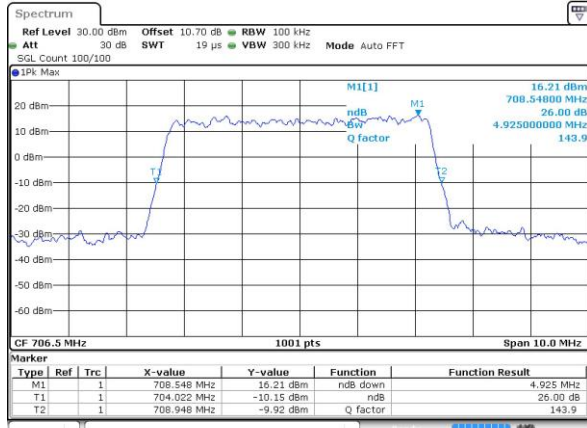
**26dB Bandwidth**

Mode BW Mod.	LTE Band 17 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.93	5.01	9.77	9.87	-	-	-	-
Middle CH	-	-	-	-	4.96	4.88	9.71	9.85	-	-	-	-
Highest CH	-	-	-	-	4.91	4.90	9.77	9.85	-	-	-	-
Mode BW Mod.	LTE Band 17 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.88	-	9.65	-	-	-	-	-
Middle CH	-	-	-	-	4.88	-	9.71	-	-	-	-	-
Highest CH	-	-	-	-	4.83	-	9.73	-	-	-	-	-

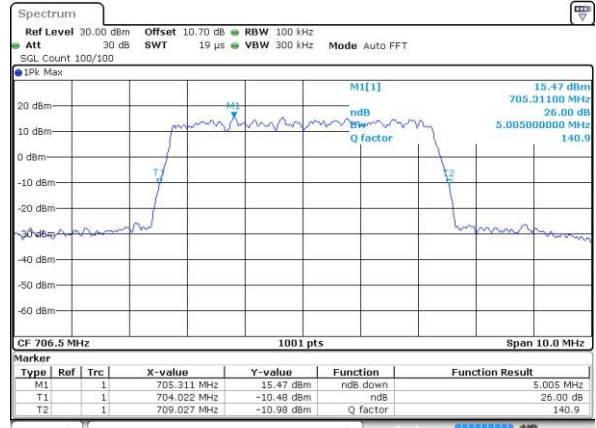


LTE Band 17

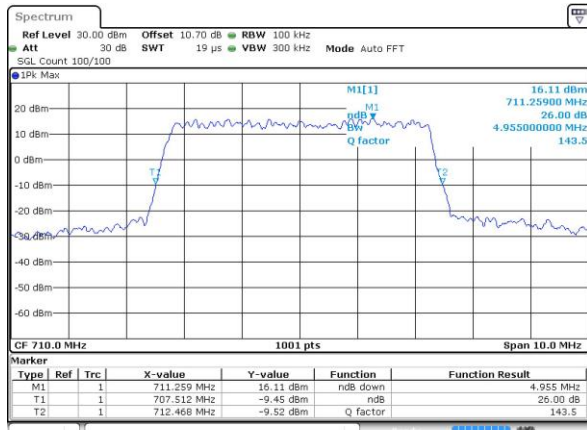
Lowest Channel / 5MHz / QPSK



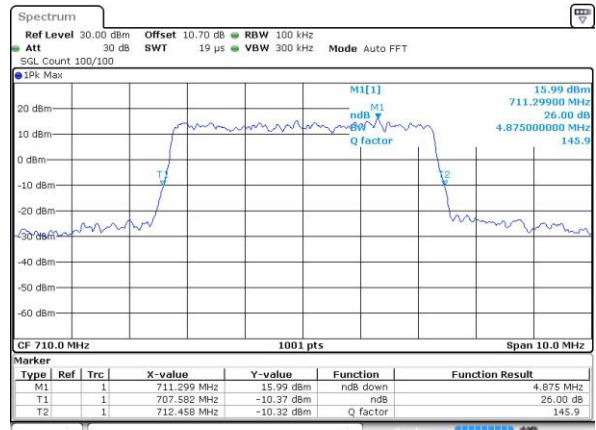
Lowest Channel / 5MHz / 16QAM



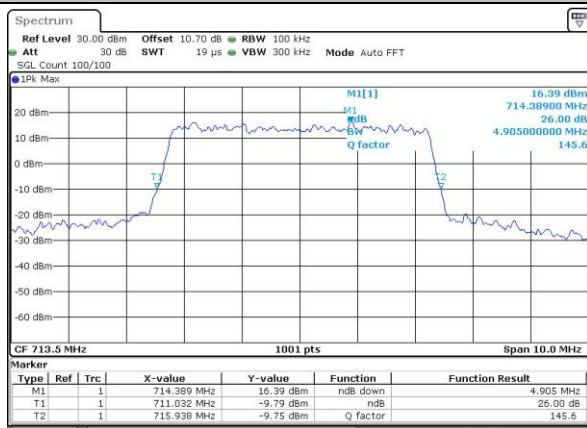
Middle Channel / 5MHz / QPSK



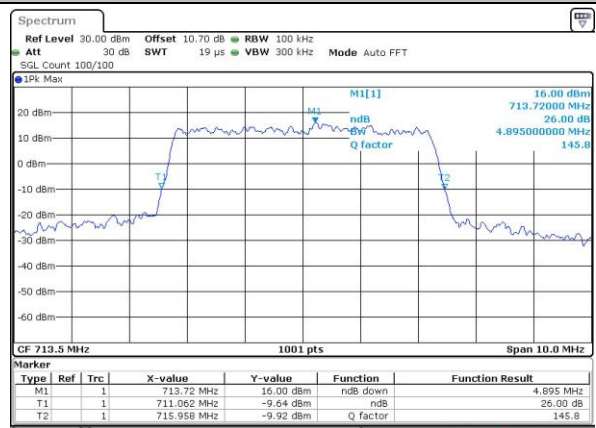
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



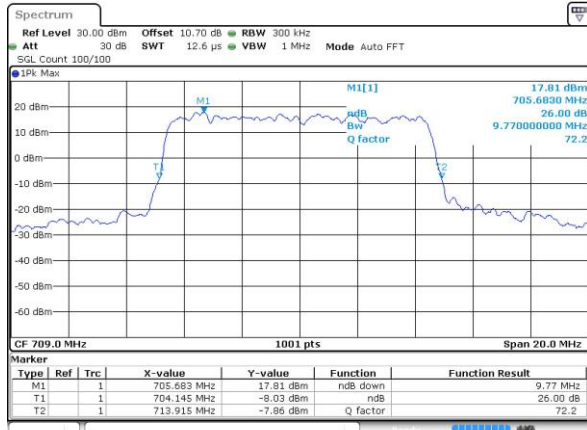
Highest Channel / 5MHz / 16QAM





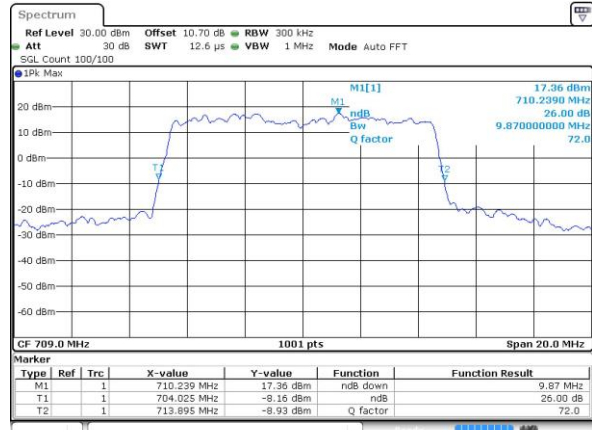
LTE Band 17

Lowest Channel / 10MHz / QPSK



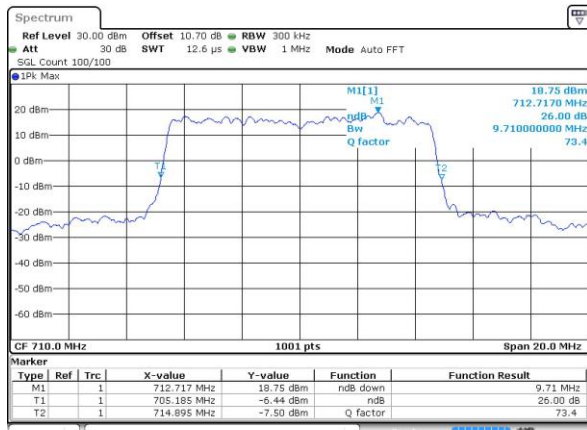
Date: 22.OCT.2018 22:01:29

Lowest Channel / 10MHz / 16QAM



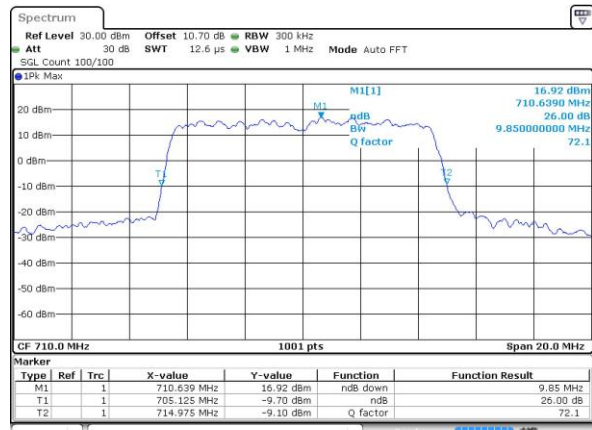
Date: 22.OCT.2018 22:01:41

Middle Channel / 10MHz / QPSK



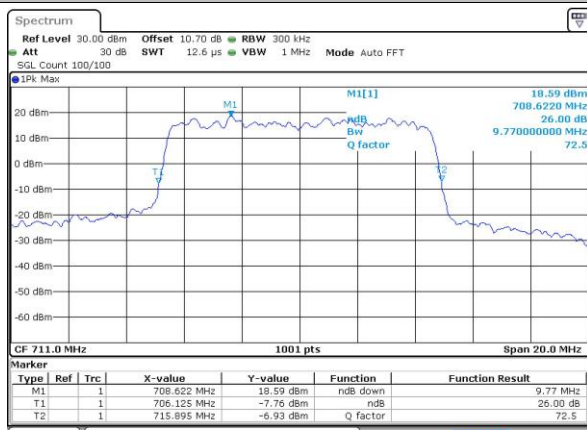
Date: 22.OCT.2018 22:07:35

Middle Channel / 10MHz / 16QAM



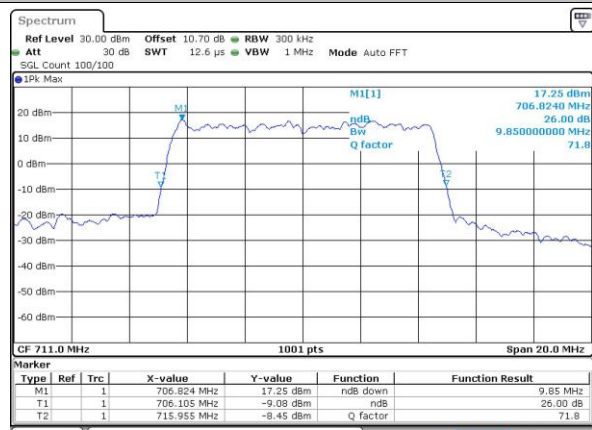
Date: 22.OCT.2018 22:07:47

Highest Channel / 10MHz / QPSK



Date: 22.OCT.2018 22:47:46

Highest Channel / 10MHz / 16QAM

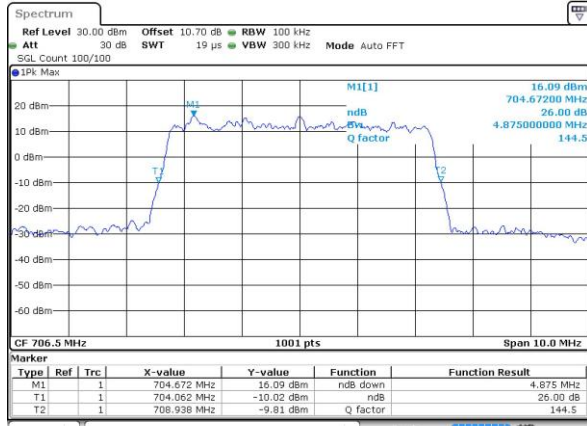


Date: 22.OCT.2018 22:47:57



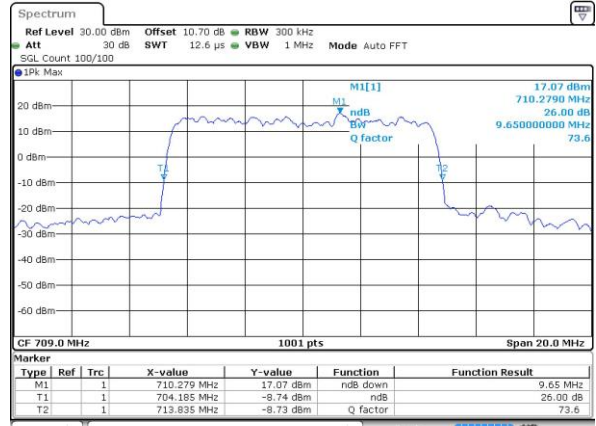
LTE Band 17

Lowest Channel / 5MHz / 64QAM



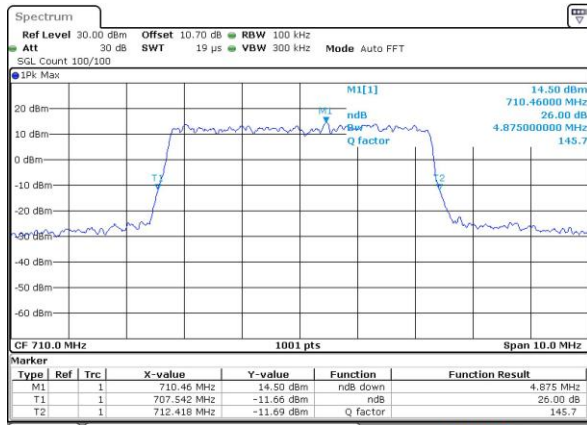
Date: 22.OCT.2018 22:25:26

Lowest Channel / 10MHz / 64QAM



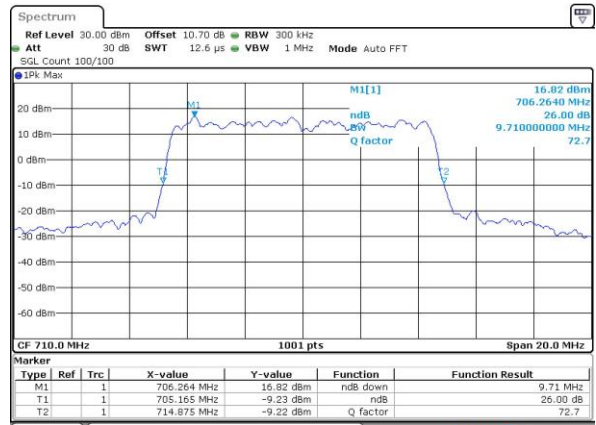
Date: 22.OCT.2018 22:32:35

Middle Channel / 5MHz / 64QAM



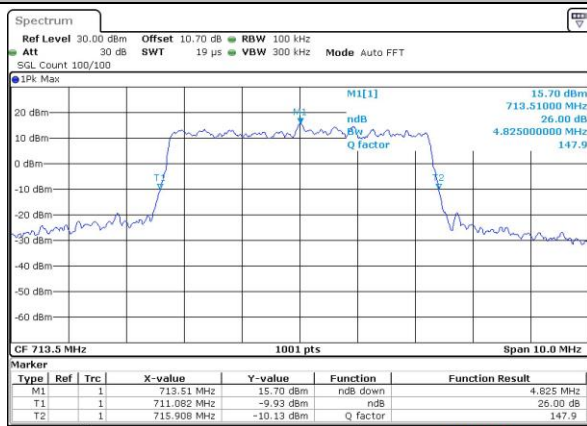
Date: 22.OCT.2018 22:28:29

Middle Channel / 10MHz / 64QAM



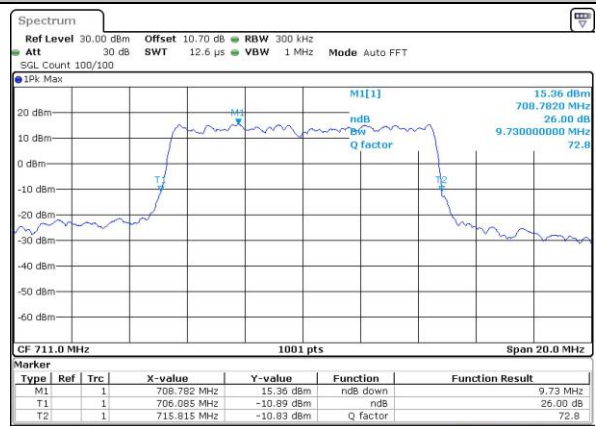
Date: 22.OCT.2018 22:35:38

Highest Channel / 5MHz / 64QAM



Date: 22.OCT.2018 22:29:32

Highest Channel / 10MHz / 64QAM



Date: 22.OCT.2018 22:36:41

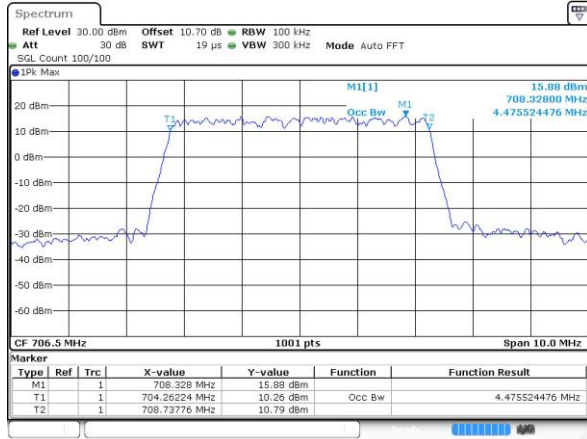
**Occupied Bandwidth**

Mode BW Mod.	LTE Band 17 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.48	4.5	9.09	9.07	-	-	-	-
Middle CH	-	-	-	-	4.5	4.5	8.99	9.05	-	-	-	-
Highest CH	-	-	-	-	4.51	4.5	8.99	8.99	-	-	-	-
Mode BW Mod.	LTE Band 17 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.49	-	9.05	-	-	-	-	-
Middle CH	-	-	-	-	4.51	-	9.03	-	-	-	-	-
Highest CH	-	-	-	-	4.50	-	9.07	-	-	-	-	-

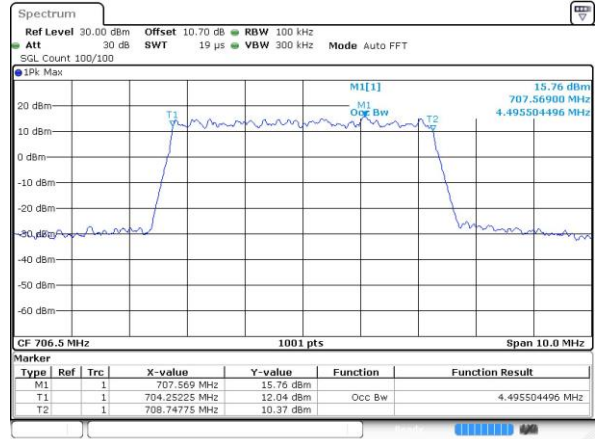


LTE Band 17

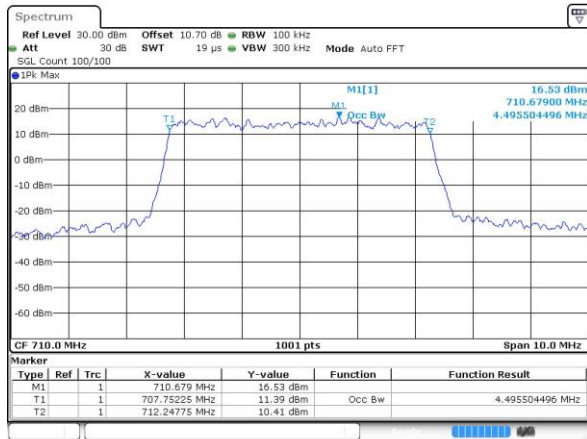
Lowest Channel / 5MHz / QPSK



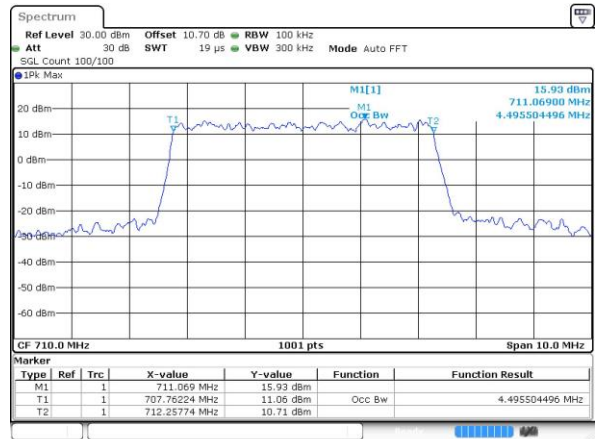
Lowest Channel / 5MHz / 16QAM



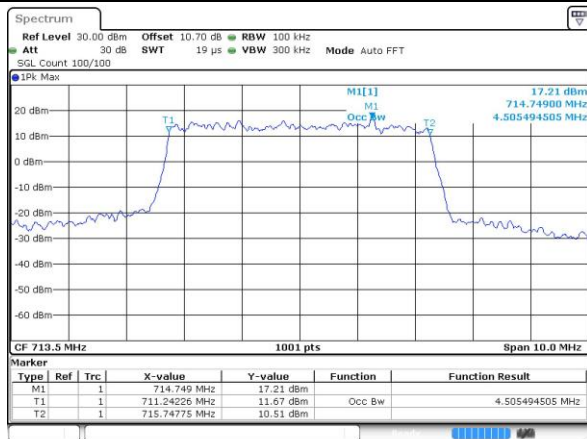
Middle Channel / 5MHz / QPSK



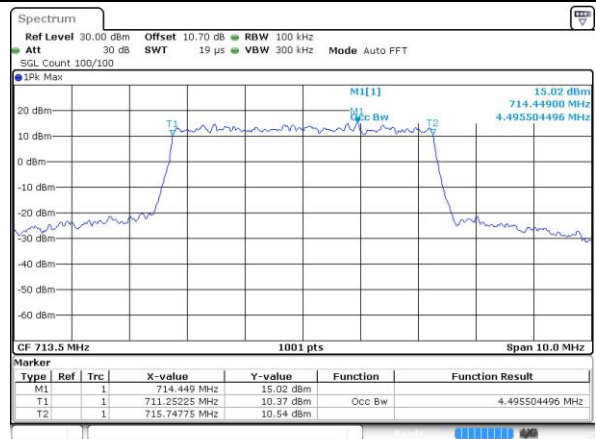
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



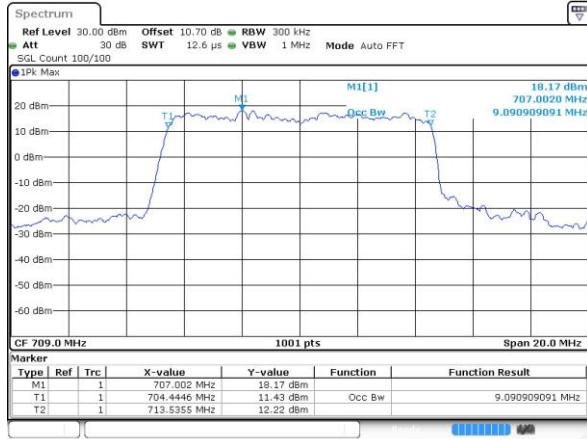
Highest Channel / 5MHz / 16QAM





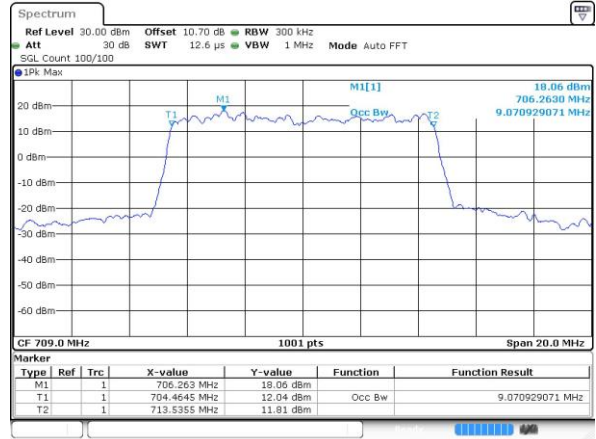
LTE Band 17

Lowest Channel / 10MHz / QPSK



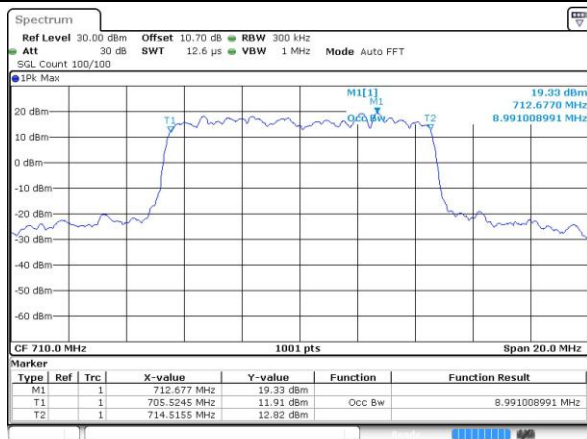
Date: 22.OCT.2018 22:01:07

Lowest Channel / 10MHz / 16QAM



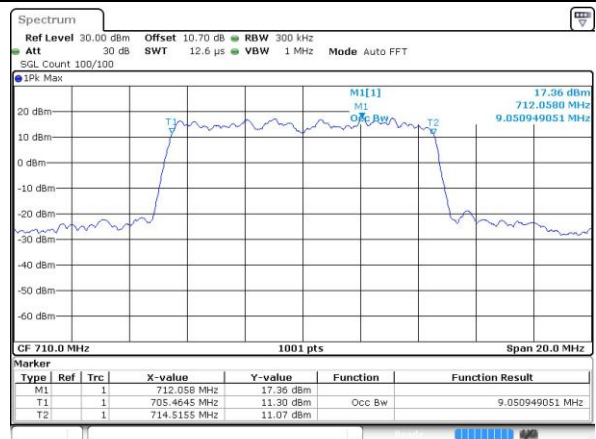
Date: 22.OCT.2018 22:01:18

Middle Channel / 10MHz / QPSK



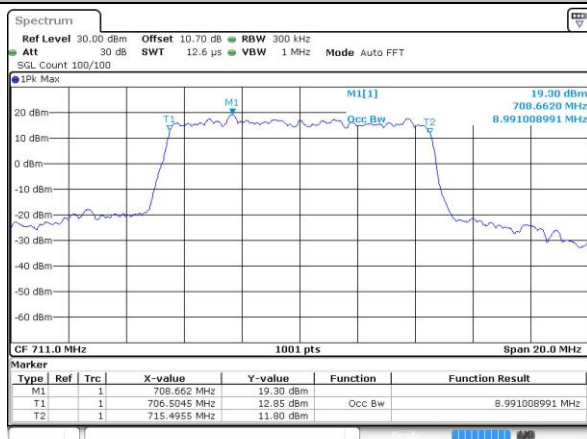
Date: 22.OCT.2018 22:07:12

Middle Channel / 10MHz / 16QAM



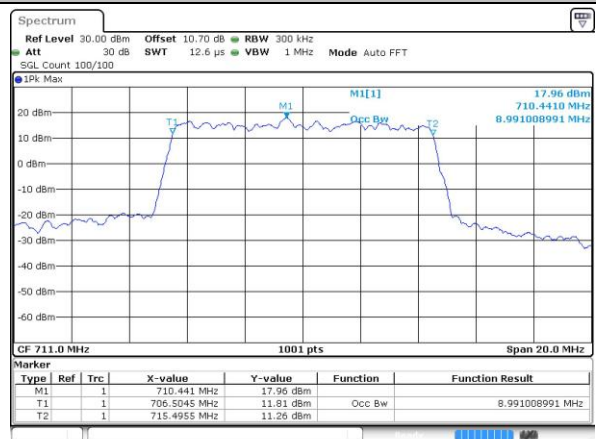
Date: 22.OCT.2018 22:07:24

Highest Channel / 10MHz / QPSK



Date: 22.OCT.2018 22:47:23

Highest Channel / 10MHz / 16QAM

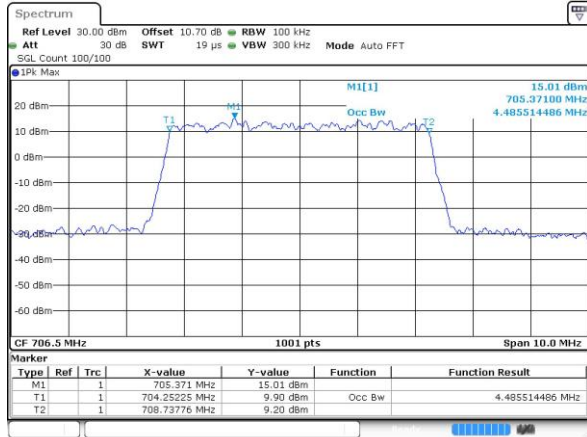


Date: 22.OCT.2018 22:47:34

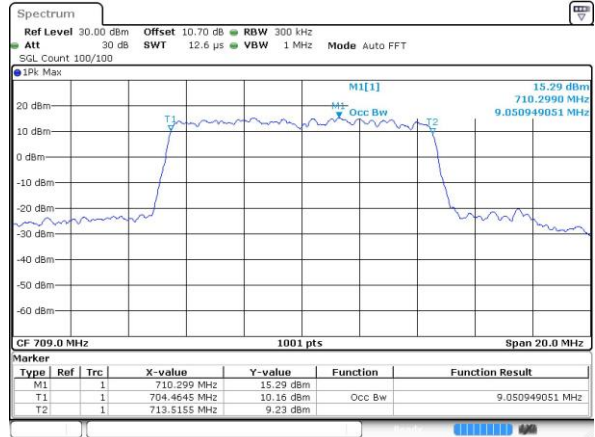


LTE Band 17

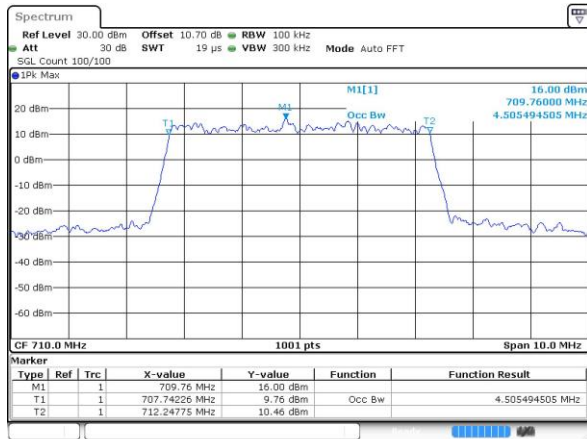
Lowest Channel / 5MHz / 64QAM



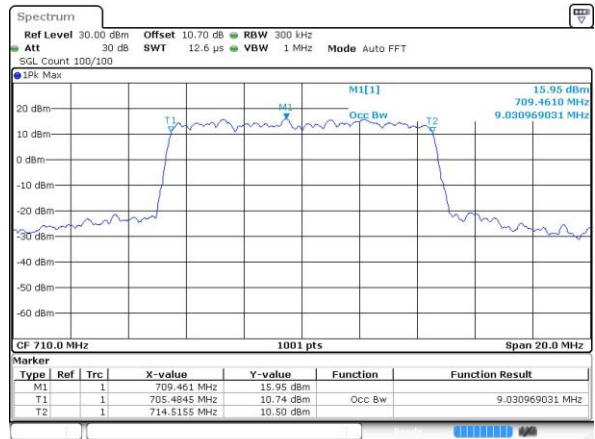
Lowest Channel / 10MHz / 64QAM



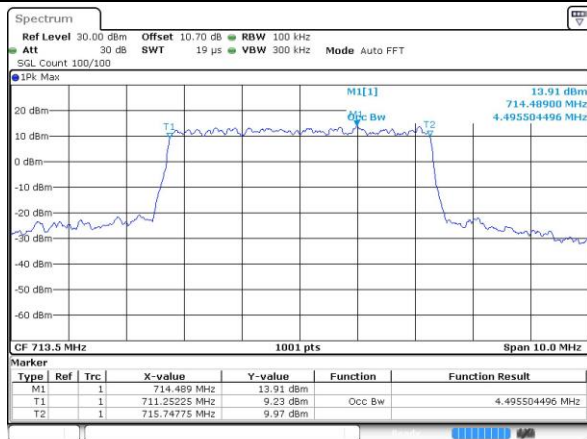
Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM

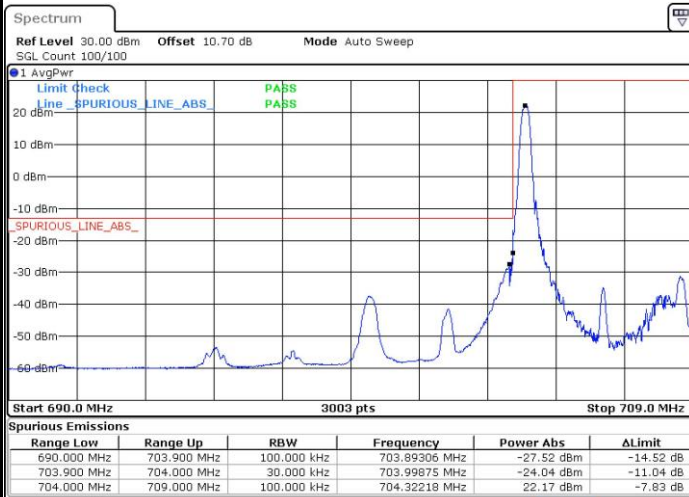
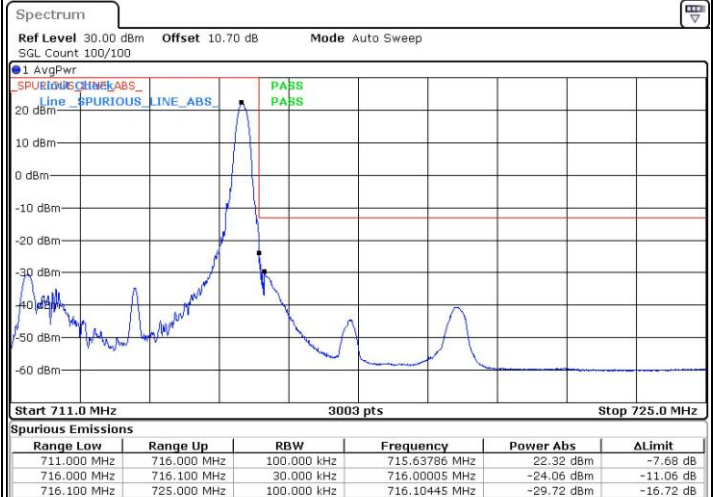
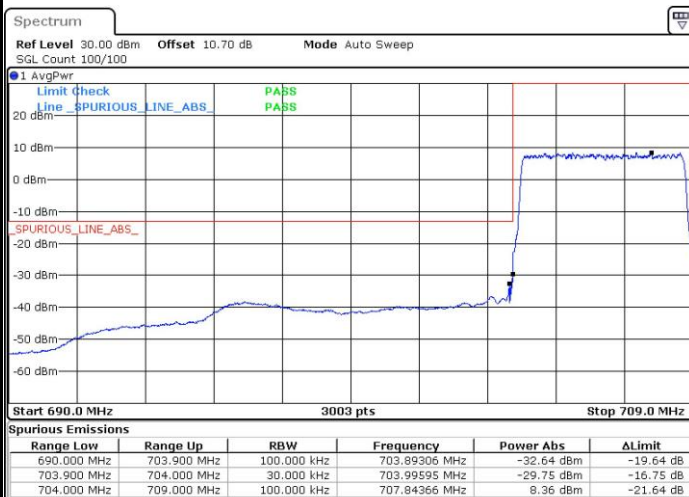
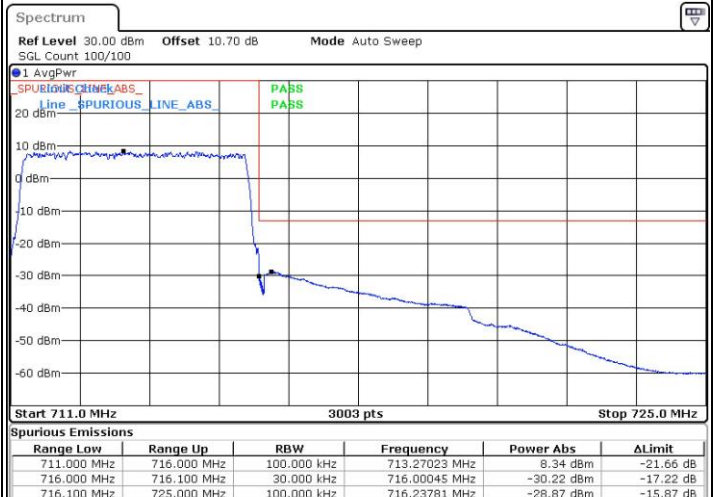


Highest Channel / 5MHz / 64QAM



Highest Channel / 10MHz / 64QAM

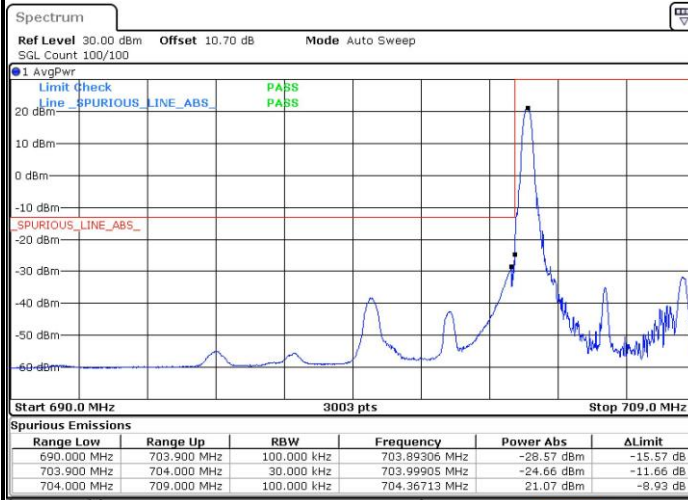


**Conducted Band Edge****LTE Band 17 / 5MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**



LTE Band 17 / 5MHz / 16QAM

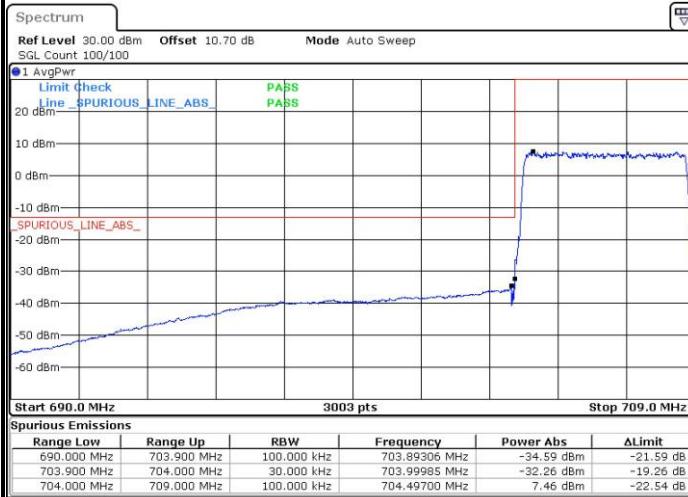
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



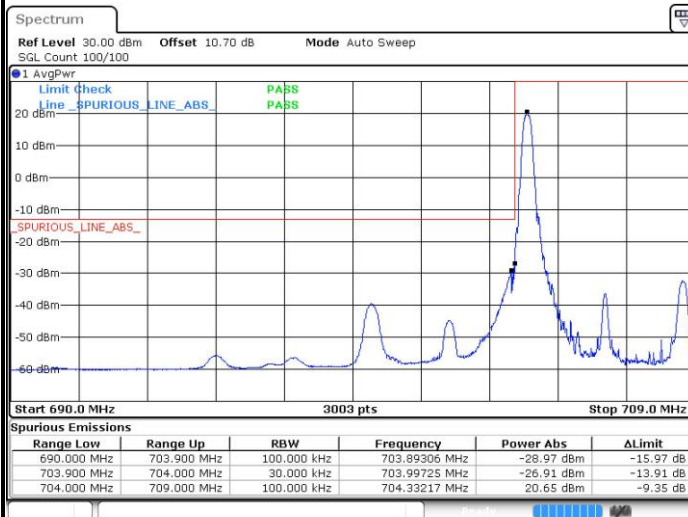
Highest Band Edge / Full RB



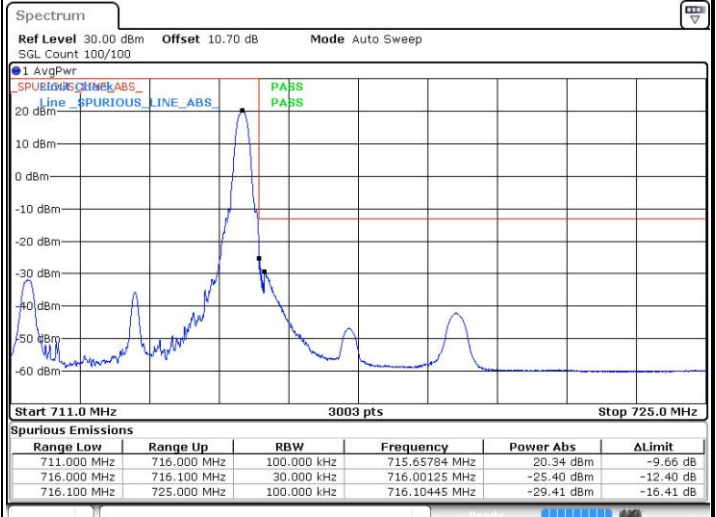


LTE Band 17 / 5MHz / 64QAM

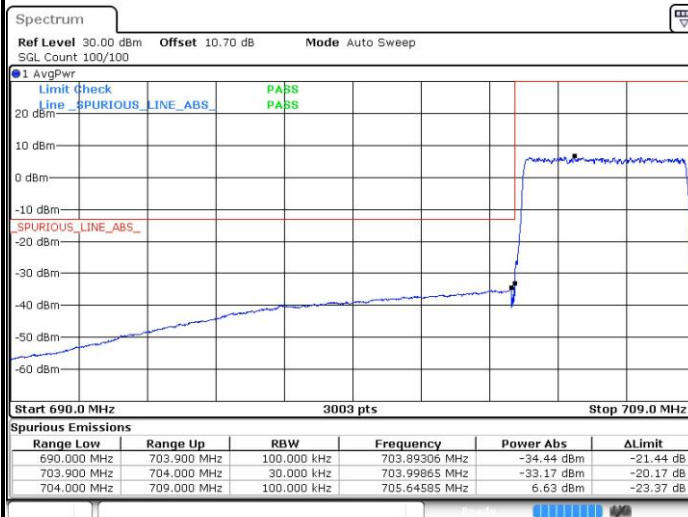
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

