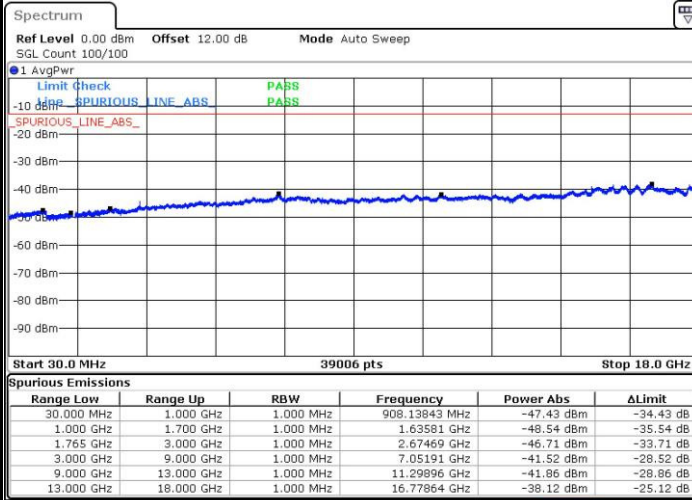




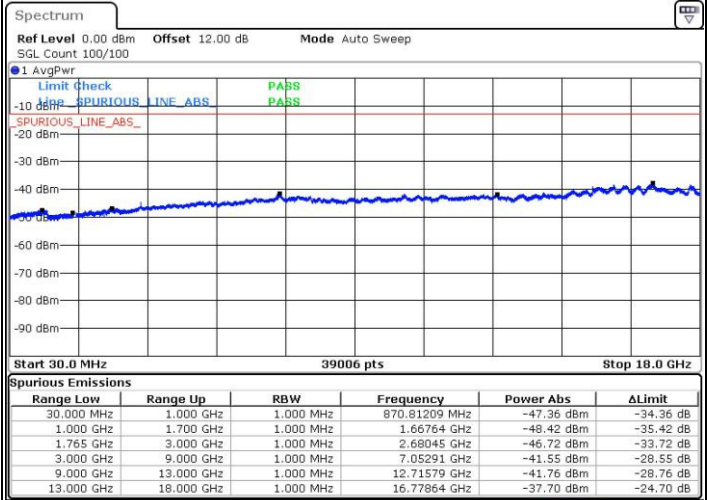
LTE Band 4 / 20MHz

Middle Channel / QPSK



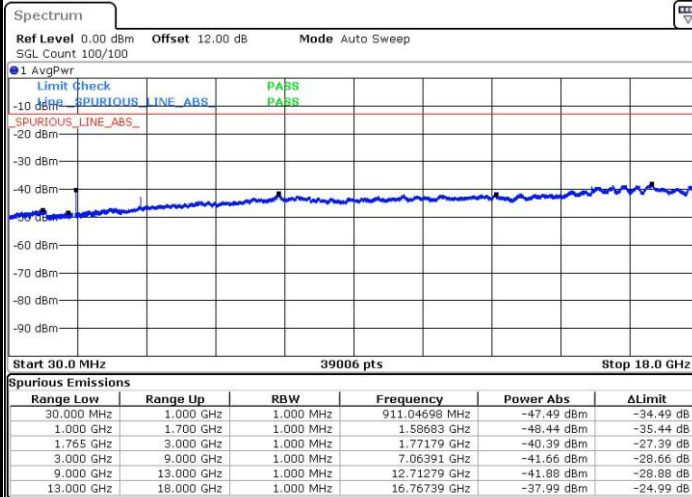
Date: 15 JUN 2016 11:16:42

Middle Channel / 16QAM



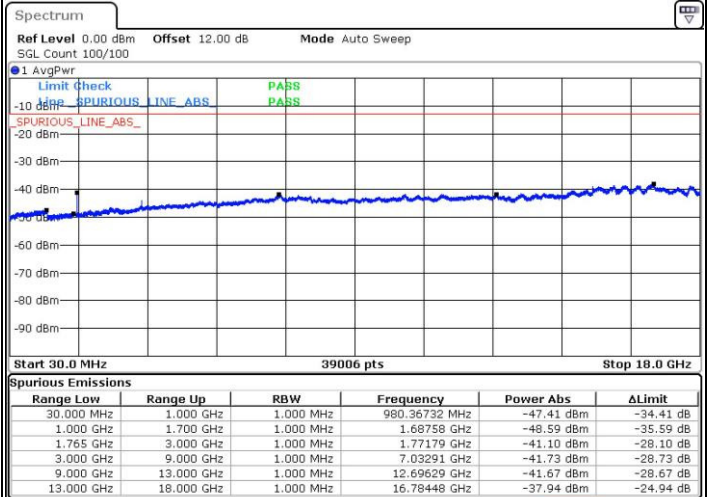
Date: 15 JUN 2016 11:17:37

Highest Channel / QPSK



Date: 15 JUN 2016 11:23:50

Highest Channel / 16QAM



Date: 15 JUN 2016 11:24:45

Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0081	PASS
40	Normal Voltage	0.0081	
30	Normal Voltage	0.0087	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0007	
0	Normal Voltage	0.0008	
-10	Normal Voltage	0.0094	
-20	Normal Voltage	0.0084	
-30	Normal Voltage	0.0081	
20	Maximum Voltage	0.0014	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0013	

Note:

1. Normal Voltage = 3.9 V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage =4.35 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



LTE Band 12

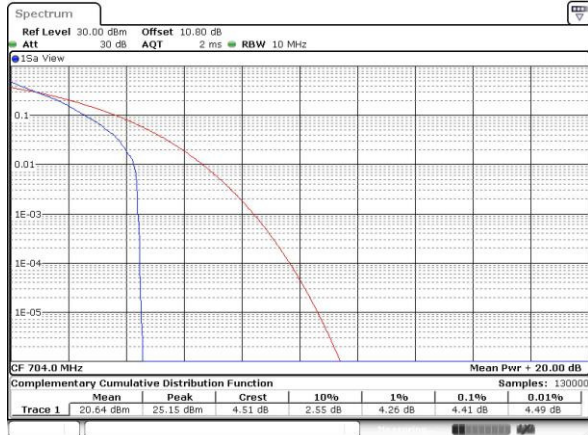
Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.41	5.01	5.16	5.88	PASS
Middle CH	4.49	4.81	5.54	6.03	
Highest CH	4.75	4.64	5.33	5.62	

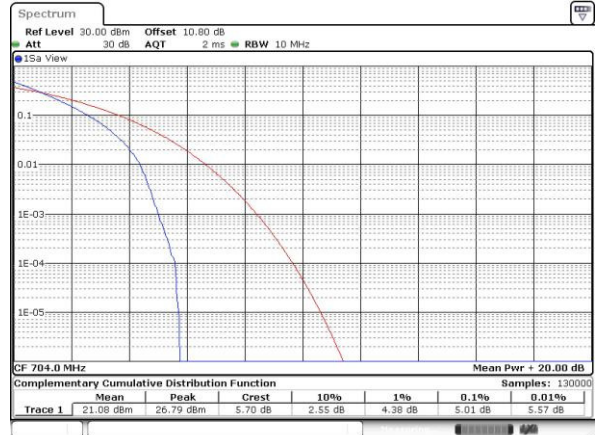


LTE Band 12 / 10MHz / QPSK

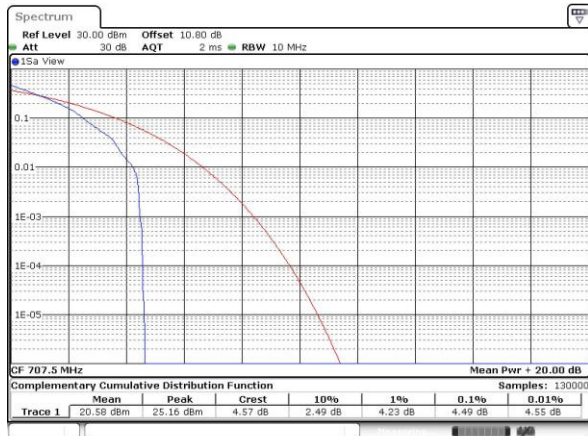
Lowest Channel / 1RB



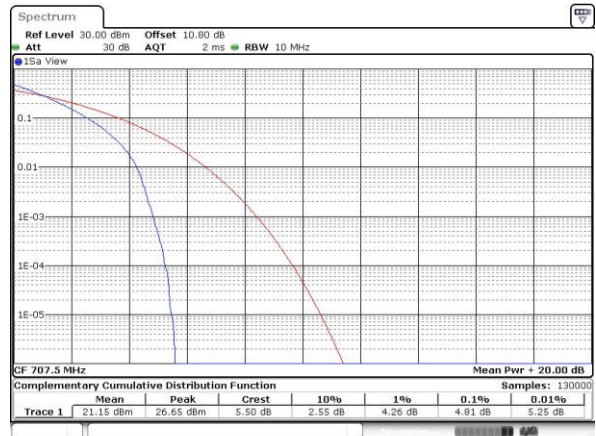
Lowest Channel / Full RB



Middle Channel / 1RB



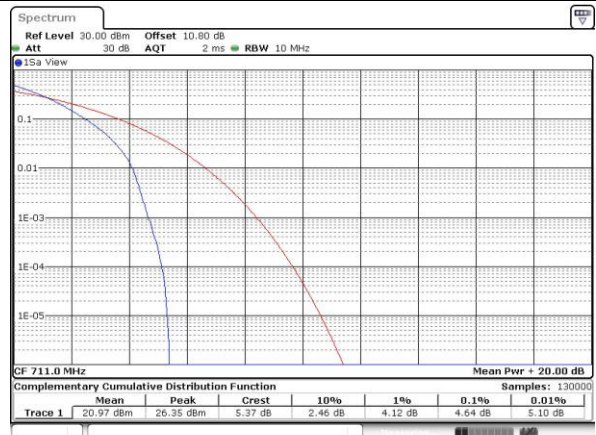
Middle Channel / Full RB



Highest Channel / 1RB



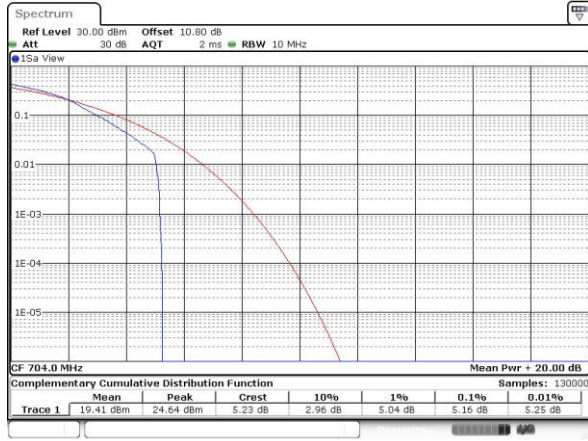
Highest Channel / Full RB



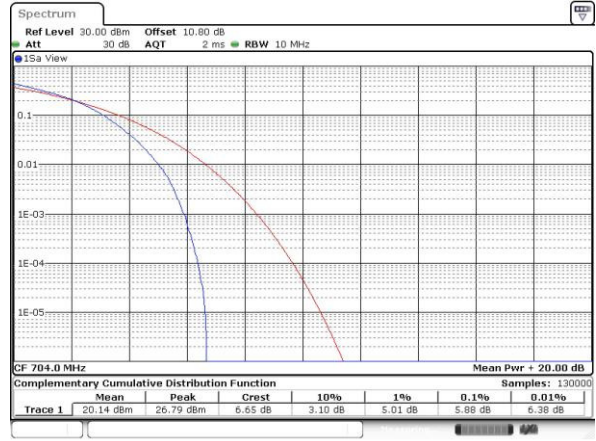


LTE Band 12 / 10MHz / 16QAM

Lowest Channel / 1RB



Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



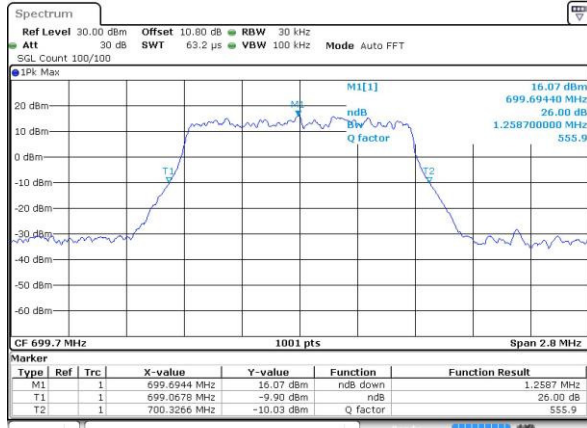
**26dB Bandwidth**

Mode	LTE Band 12 : 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	1.26	1.28	3.00	3.03	4.88	4.91	10.03	9.73	-	-	-	-
Middle CH	1.28	1.28	3.00	3.00	4.90	4.91	9.73	9.85	-	-	-	-
Highest CH	1.26	1.30	3.00	3.03	4.92	4.88	9.81	9.89	-	-	-	-



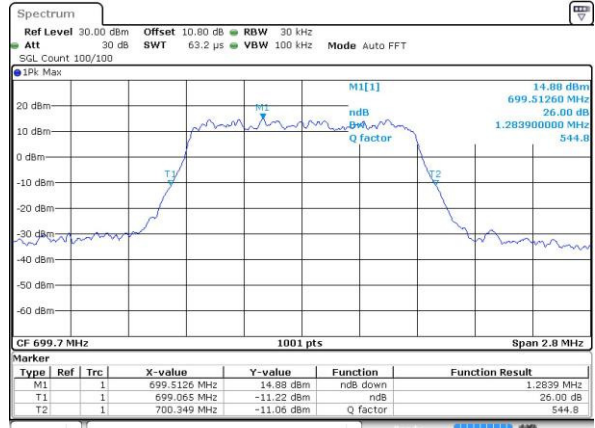
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



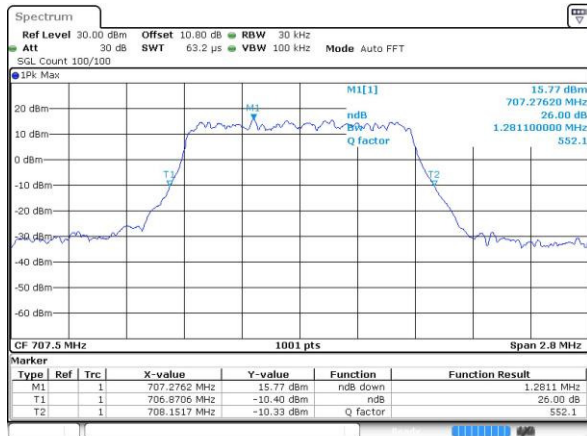
Date: 15 JUN 2016 14:55:28

Lowest Channel / 1.4MHz / 16QAM



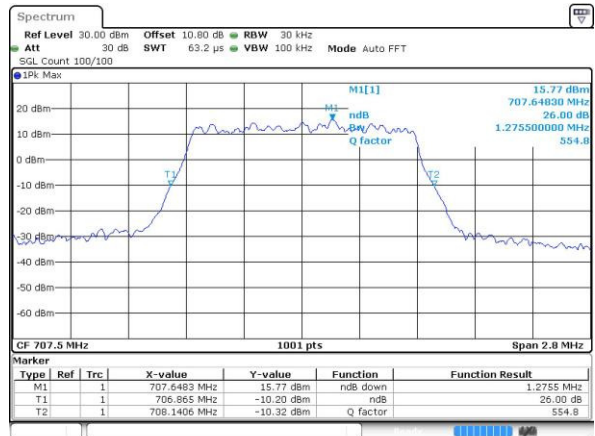
Date: 15 JUN 2016 14:55:17

Middle Channel / 1.4MHz / QPSK



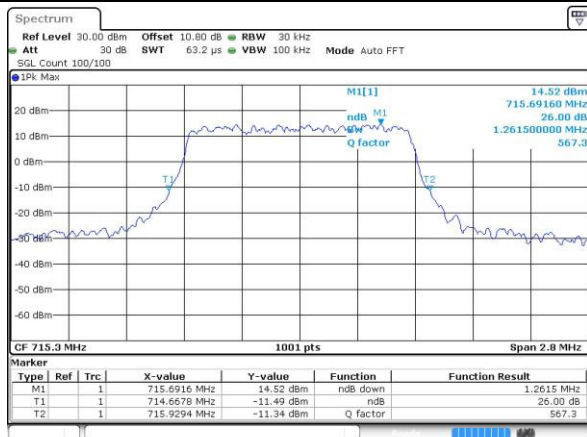
Date: 15 JUN 2016 15:11:00

Middle Channel / 1.4MHz / 16QAM



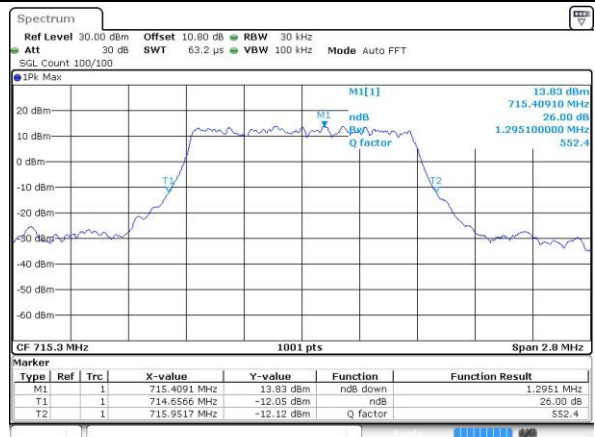
Date: 15 JUN 2016 15:11:11

Highest Channel / 1.4MHz / QPSK



Date: 15 JUN 2016 15:13:59

Highest Channel / 1.4MHz / 16QAM

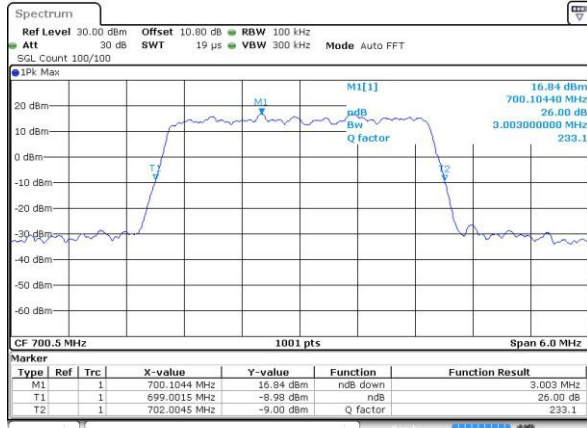


Date: 15 JUN 2016 15:13:49

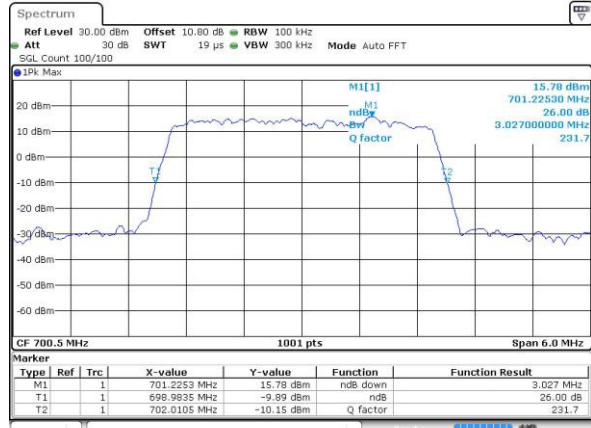


LTE Band 12

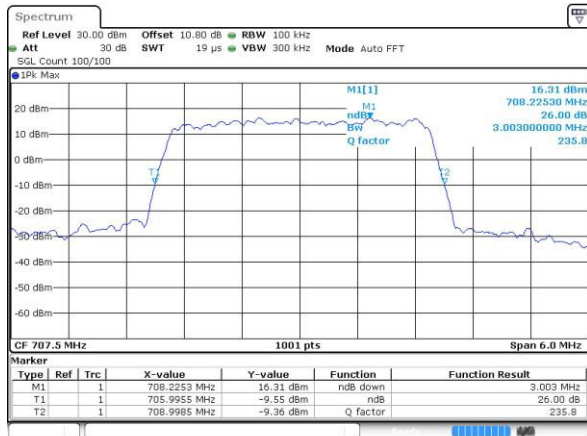
Lowest Channel / 3MHz / QPSK



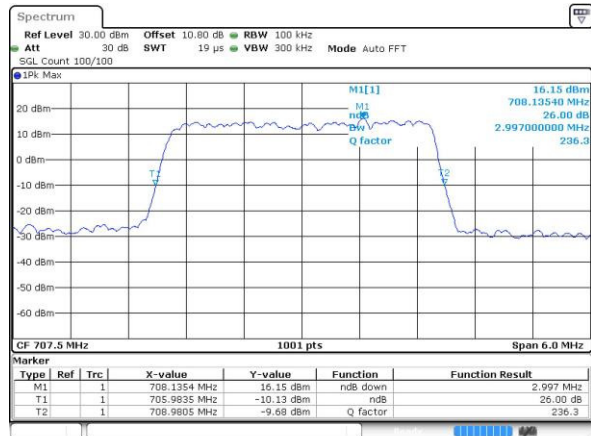
Lowest Channel / 3MHz / 16QAM



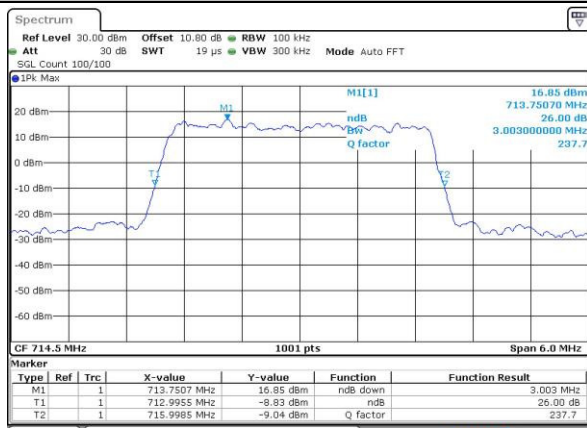
Middle Channel / 3MHz / QPSK



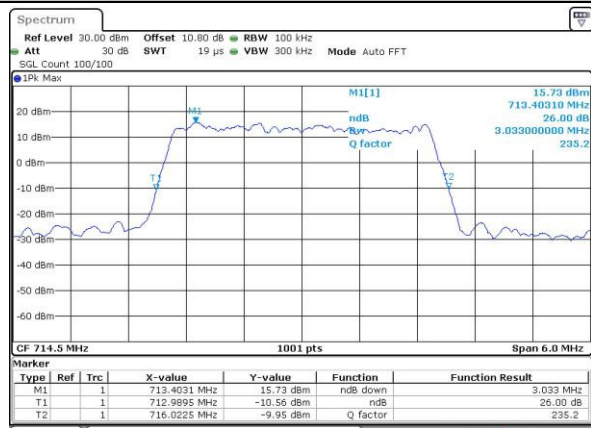
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



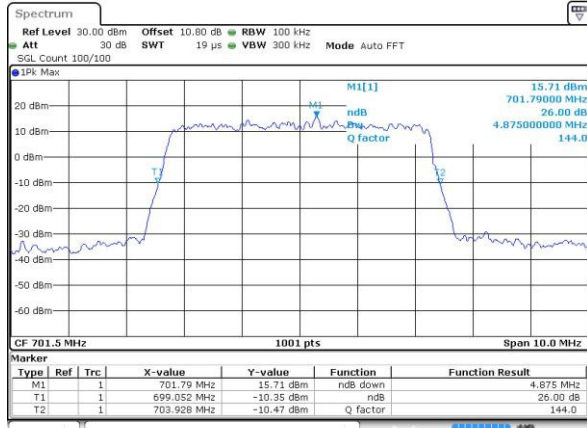
Highest Channel / 3MHz / 16QAM





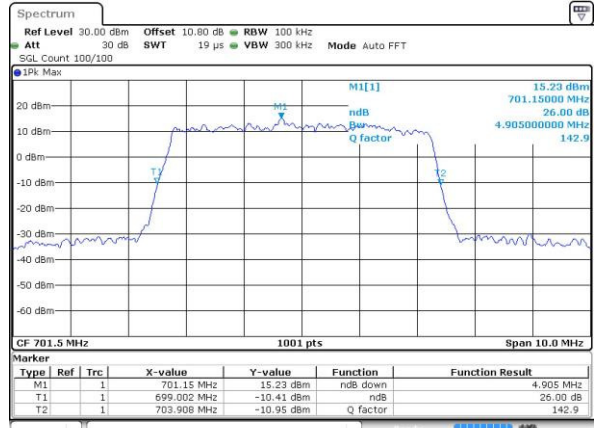
LTE Band 12

Lowest Channel / 5MHz / QPSK



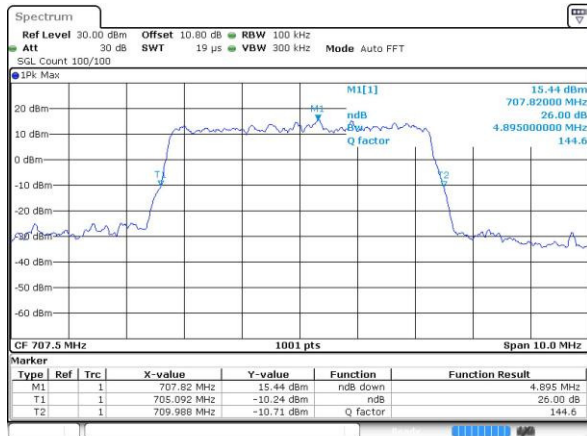
Date: 15 JUN 2016 12:20:21

Lowest Channel / 5MHz / 16QAM



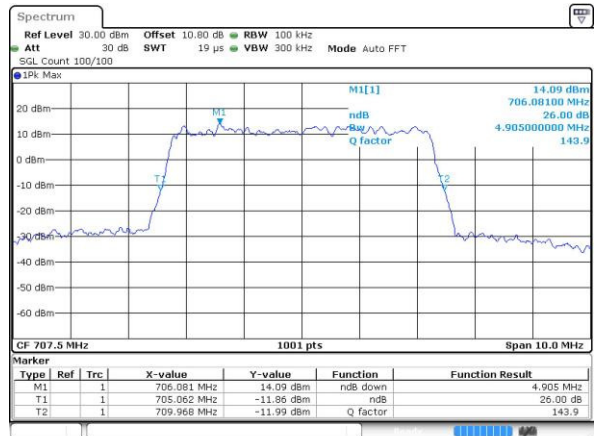
Date: 15 JUN 2016 12:20:11

Middle Channel / 5MHz / QPSK



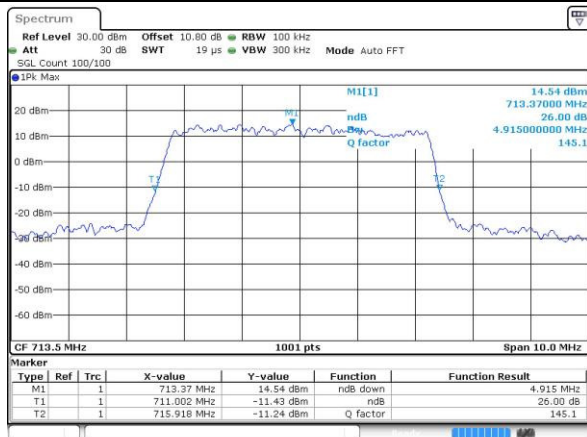
Date: 15 JUN 2016 12:35:37

Middle Channel / 5MHz / 16QAM



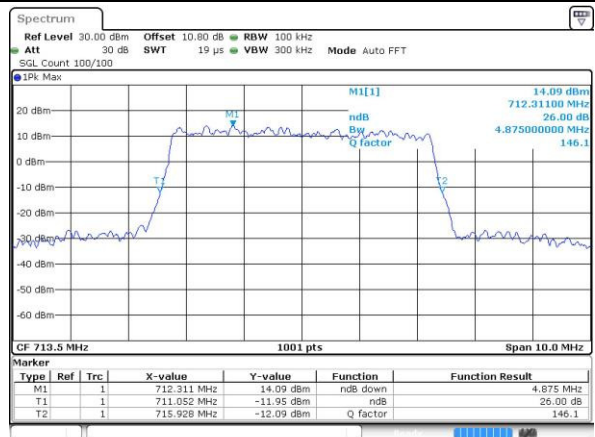
Date: 15 JUN 2016 12:35:48

Highest Channel / 5MHz / QPSK



Date: 15 JUN 2016 12:38:36

Highest Channel / 5MHz / 16QAM

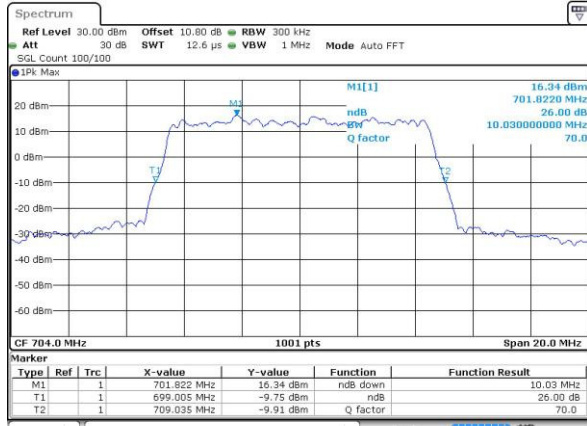


Date: 15 JUN 2016 12:38:25



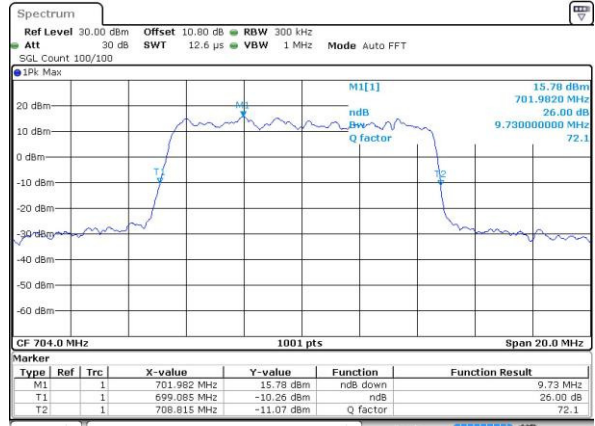
LTE Band 12

Lowest Channel / 10MHz / QPSK



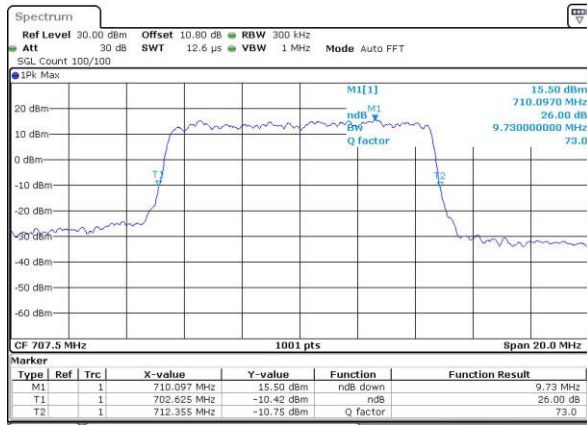
Date: 15 JUN 2016 12:54:16

Lowest Channel / 10MHz / 16QAM



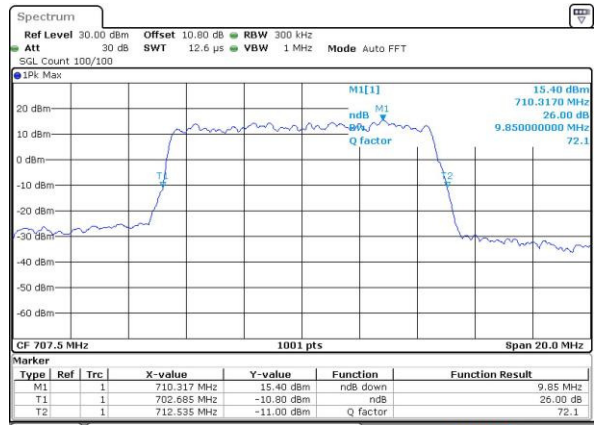
Date: 15 JUN 2016 12:54:05

Middle Channel / 10MHz / QPSK



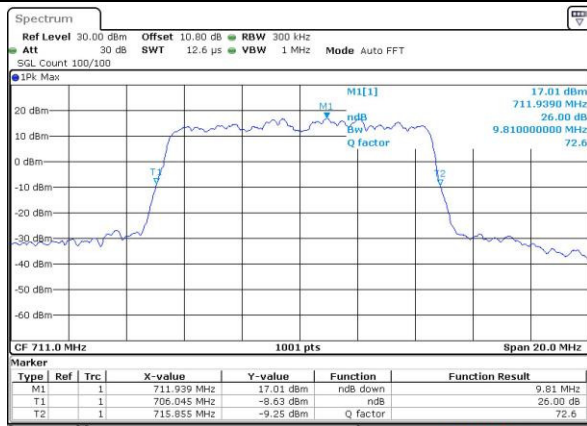
Date: 15 JUN 2016 13:09:47

Middle Channel / 10MHz / 16QAM



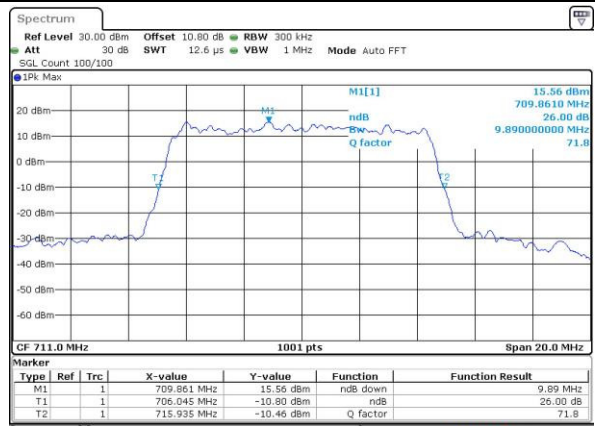
Date: 15 JUN 2016 13:09:58

Highest Channel / 10MHz / QPSK



Date: 15 JUN 2016 13:12:47

Highest Channel / 10MHz / 16QAM



Date: 15 JUN 2016 13:12:36

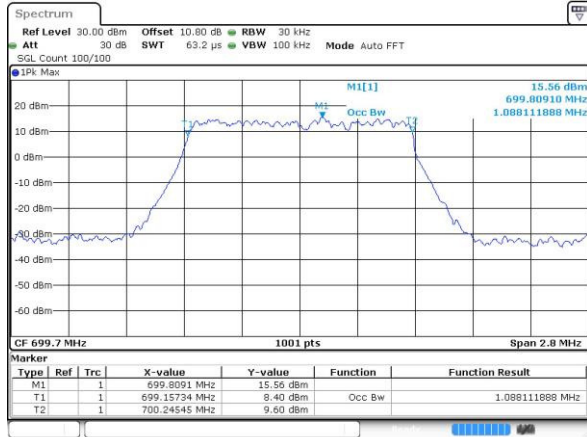
**Occupied Bandwidth**

Mode	LTE Band 12 : 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	1.09	1.09	2.72	2.72	4.45	4.46	9.01	9.07	-	-	-	-
Middle CH	1.09	1.09	2.71	2.72	4.49	4.51	9.01	8.99	-	-	-	-
Highest CH	1.09	1.1	2.72	2.7	4.47	4.48	8.99	8.97	-	-	-	-

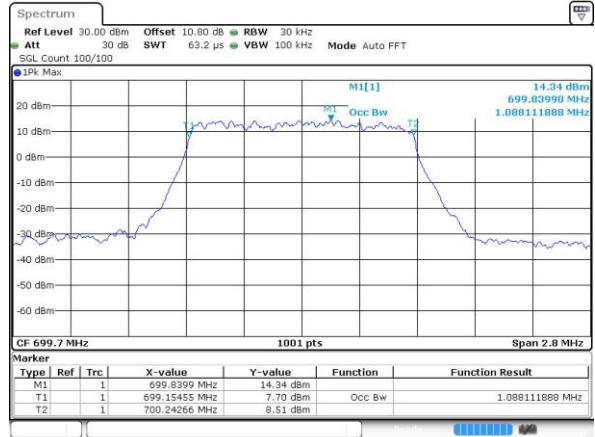


LTE Band 12

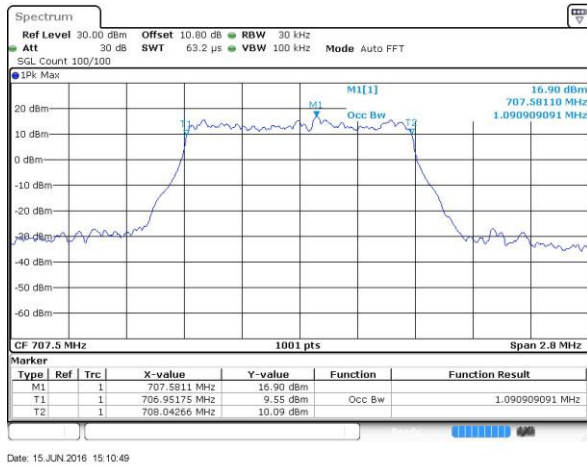
Lowest Channel / 1.4MHz / QPSK



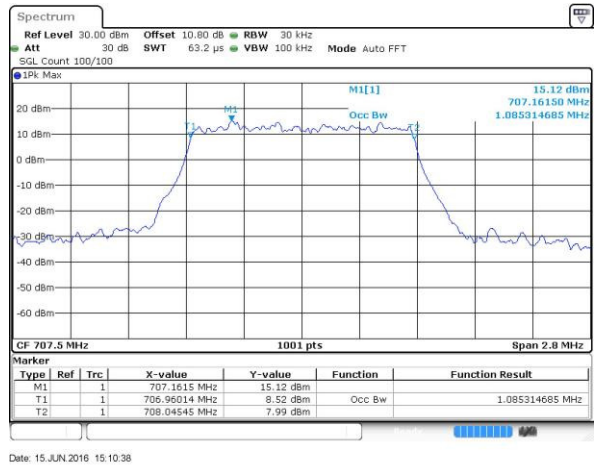
Lowest Channel / 1.4MHz / 16QAM



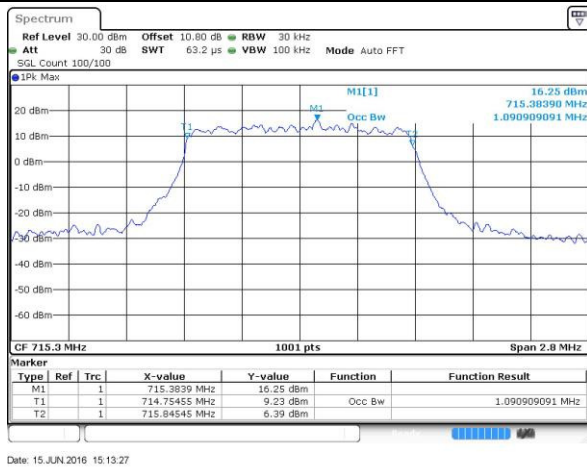
Middle Channel / 1.4MHz / QPSK



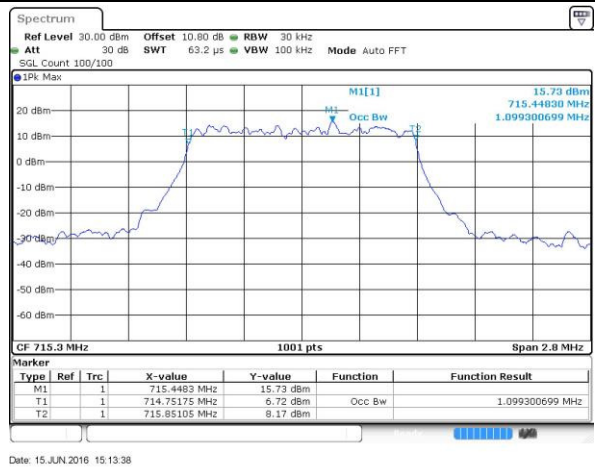
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



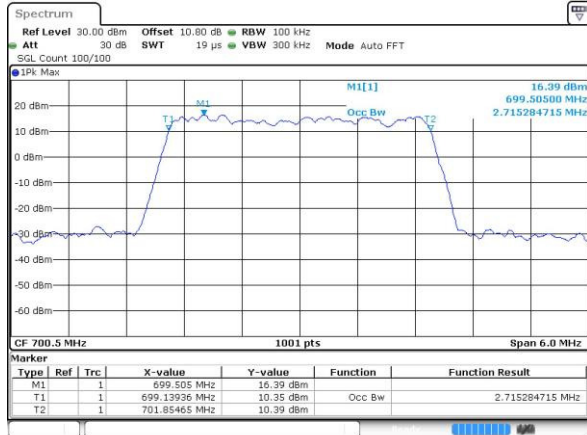
Highest Channel / 1.4MHz / 16QAM





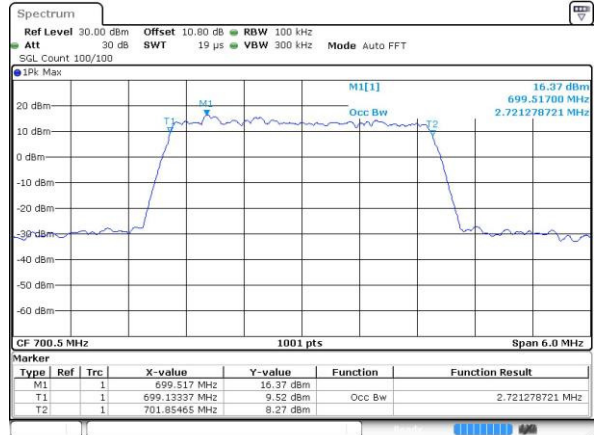
LTE Band 12

Lowest Channel / 3MHz / QPSK



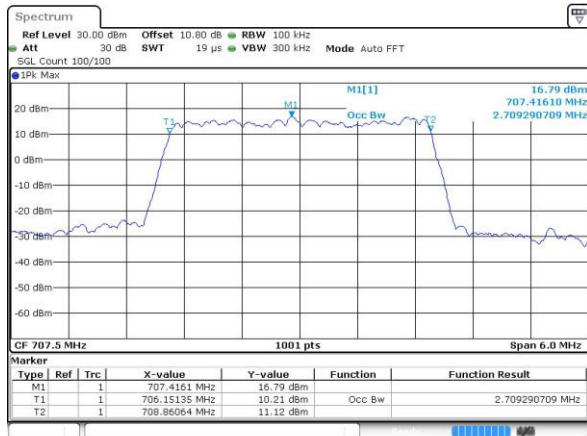
Date: 15 JUN 2016 11:47:02

Lowest Channel / 3MHz / 16QAM



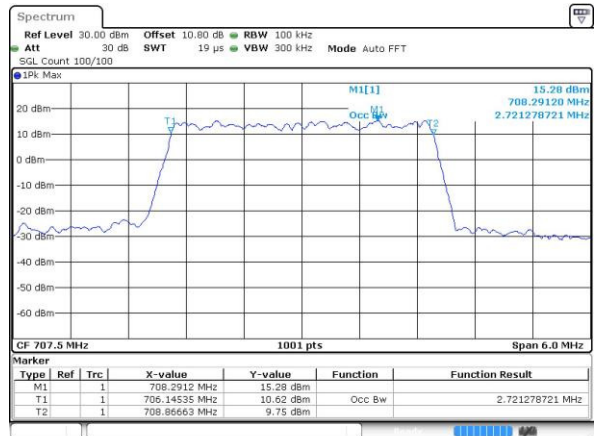
Date: 15 JUN 2016 11:47:13

Middle Channel / 3MHz / QPSK



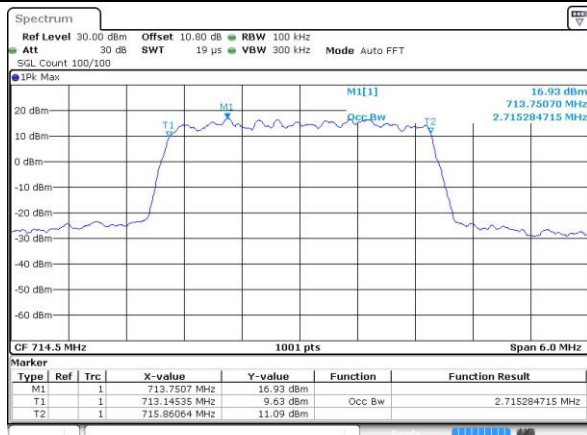
Date: 15 JUN 2016 12:02:21

Middle Channel / 3MHz / 16QAM



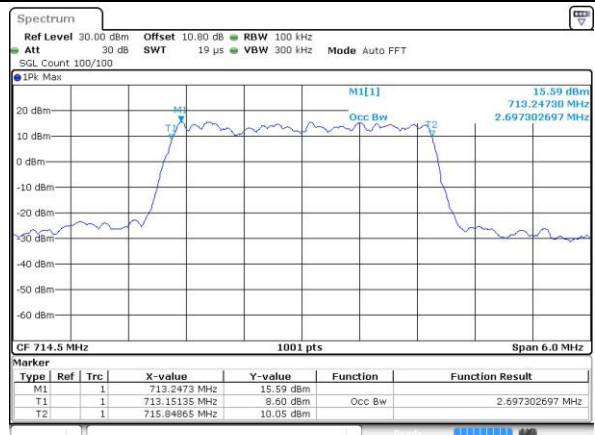
Date: 15 JUN 2016 12:02:11

Highest Channel / 3MHz / QPSK



Date: 15 JUN 2016 12:04:42

Highest Channel / 3MHz / 16QAM

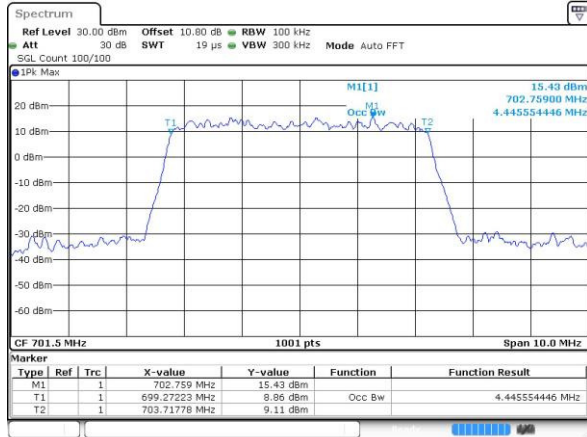


Date: 15 JUN 2016 12:04:52



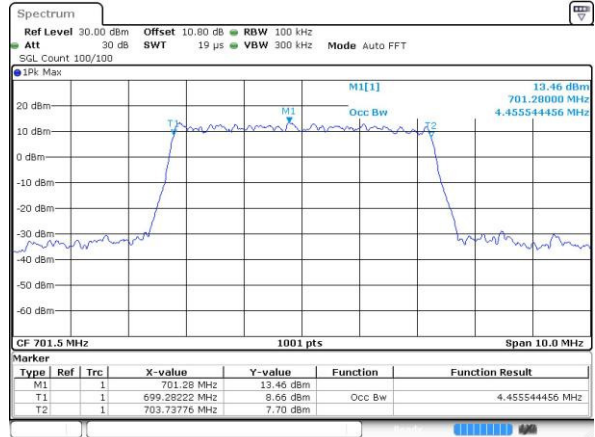
LTE Band 12

Lowest Channel / 5MHz / QPSK



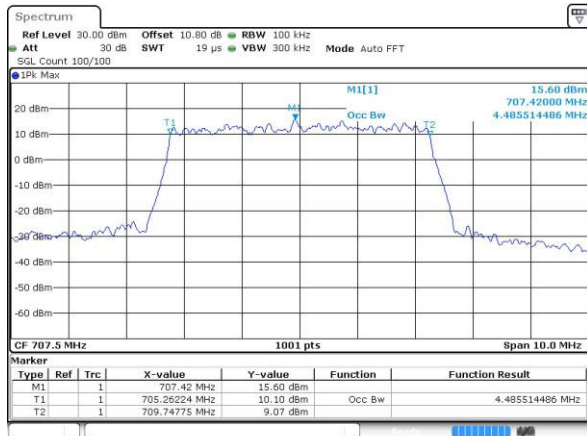
Date: 15 JUN 2016 12:19:50

Lowest Channel / 5MHz / 16QAM



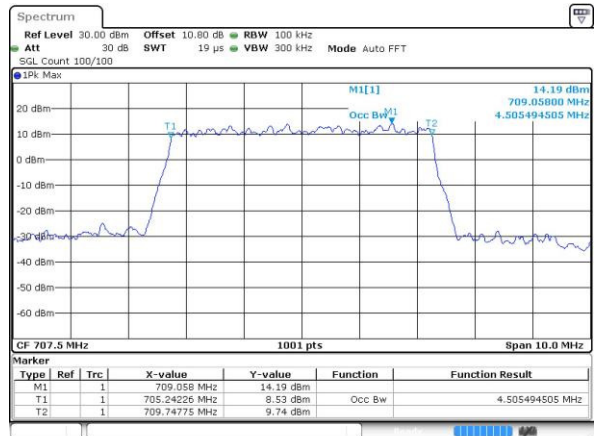
Date: 15 JUN 2016 12:20:00

Middle Channel / 5MHz / QPSK



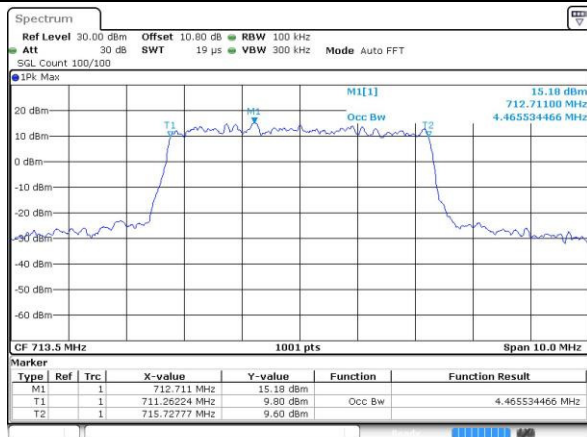
Date: 15 JUN 2016 12:35:26

Middle Channel / 5MHz / 16QAM



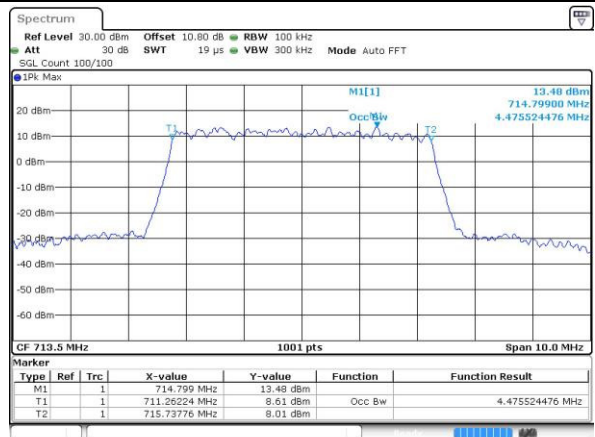
Date: 15 JUN 2016 12:35:15

Highest Channel / 5MHz / QPSK



Date: 15 JUN 2016 12:38:04

Highest Channel / 5MHz / 16QAM

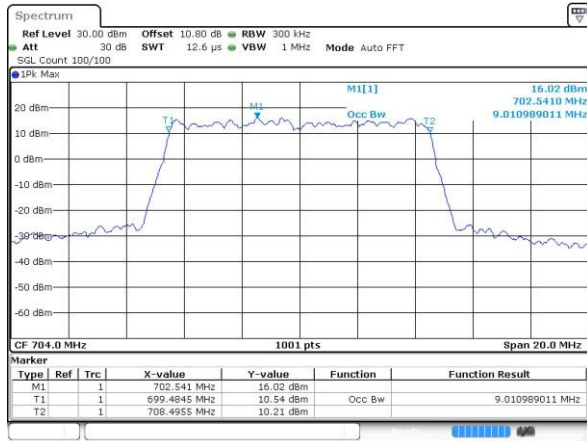


Date: 15 JUN 2016 12:38:15

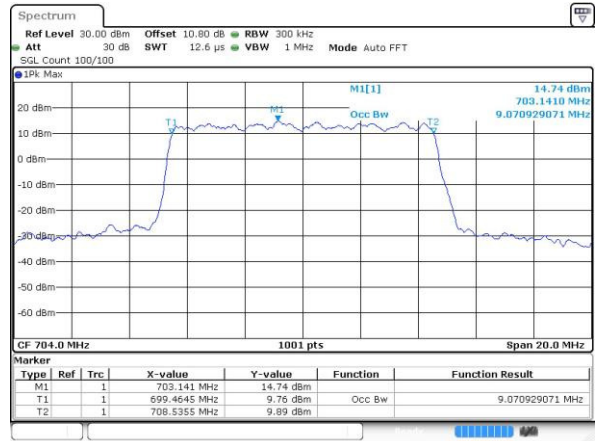


LTE Band 12

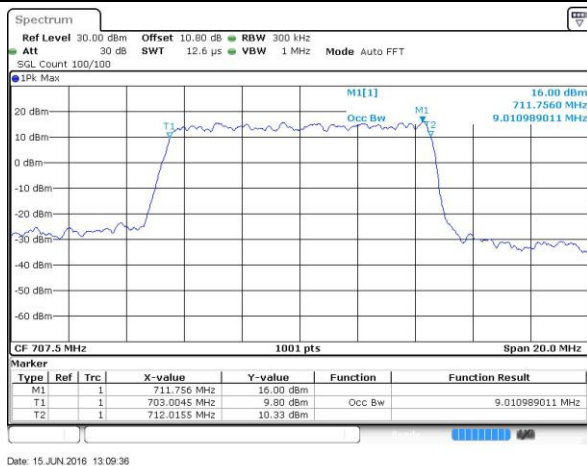
Lowest Channel / 10MHz / QPSK



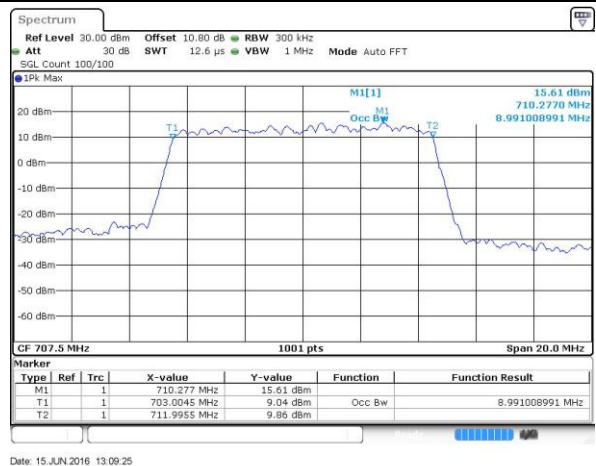
Lowest Channel / 10MHz / 16QAM



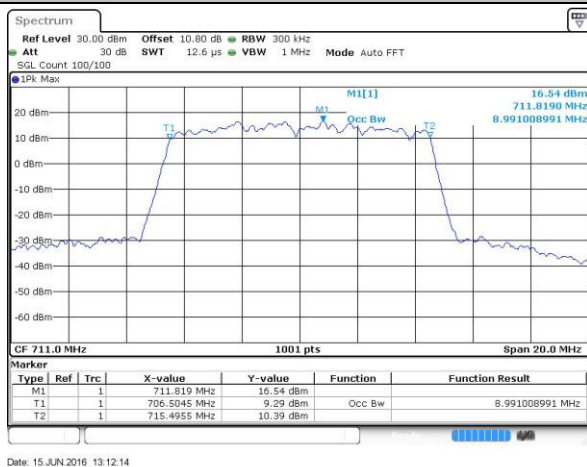
Middle Channel / 10MHz / QPSK



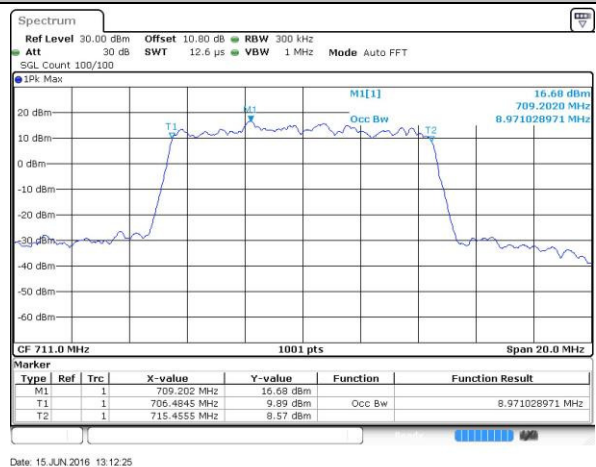
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM



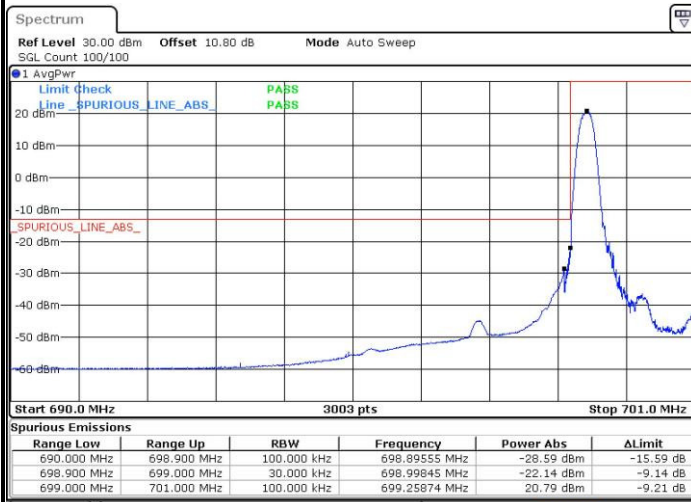


Conducted Band Edge



LTE Band 12 / 1.4MHz / QPSK

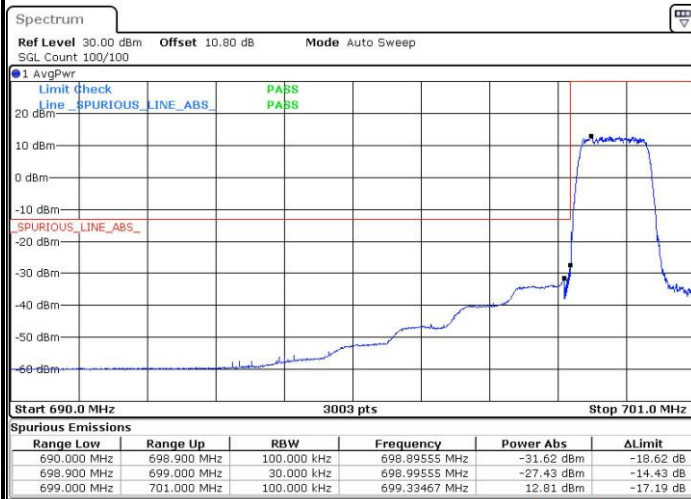
Lowest Band Edge / 1 RB



Highest Band Edge / 1RB



Lowest Band Edge / Full RB



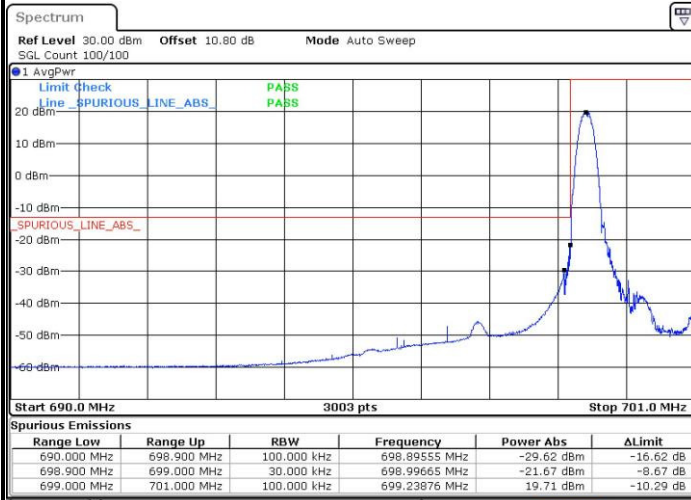
Highest Band Edge / Full RB





LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



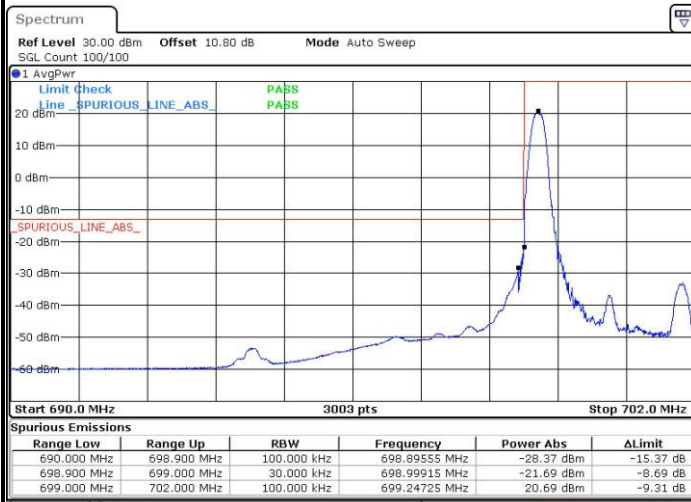
Highest Band Edge / Full RB



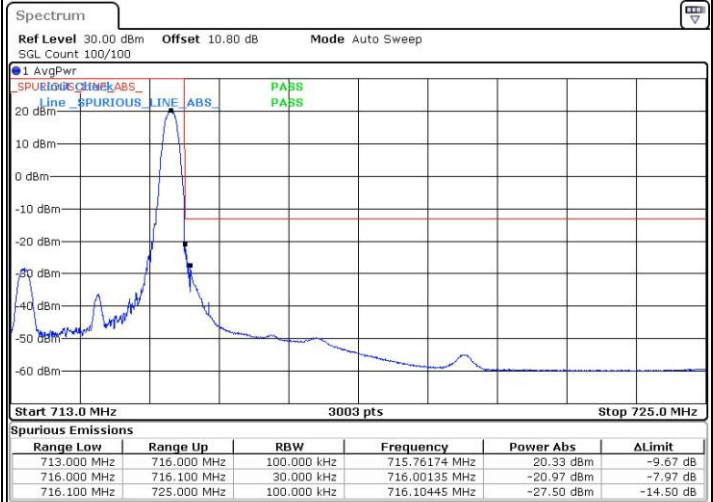


LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

