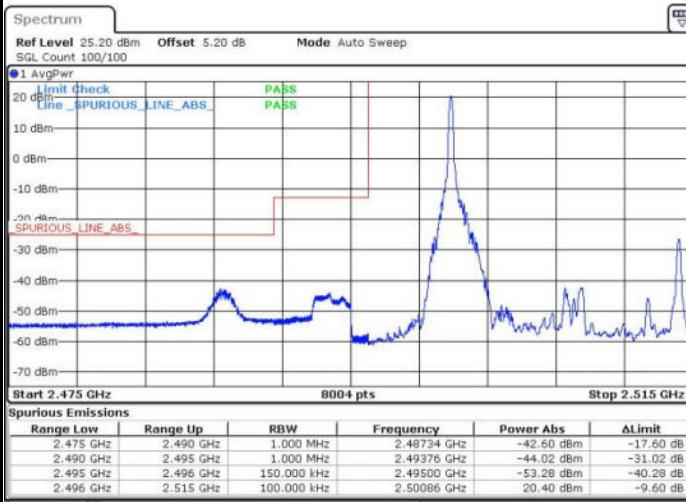


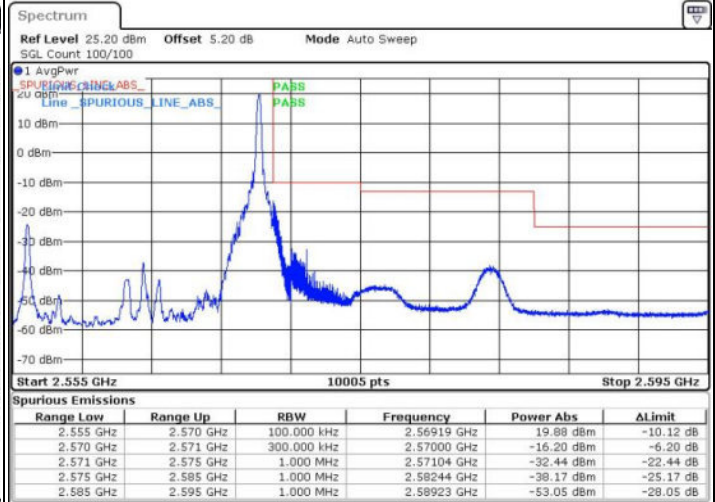


LTE Band 7 / 15MHz / QPSK

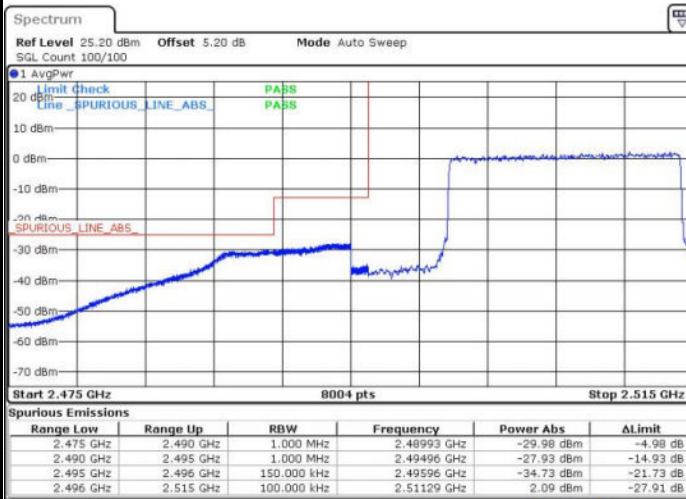
Lowest Band Edge / 1 RB



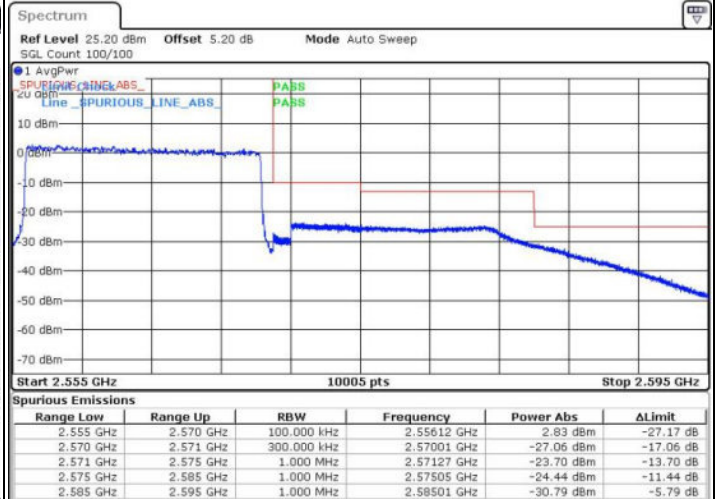
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



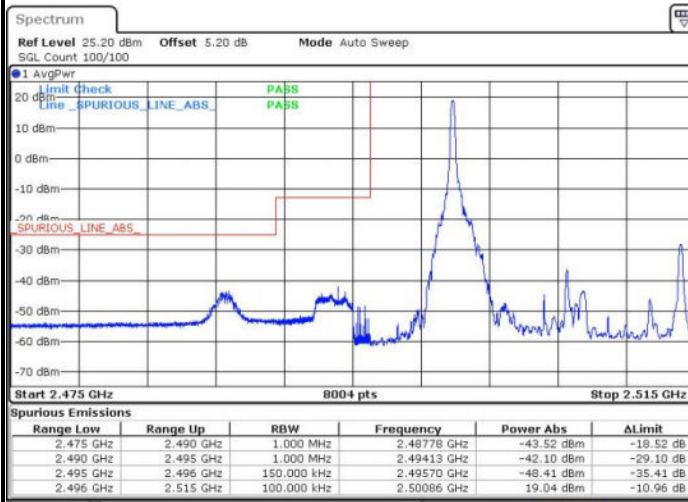
Highest Band Edge / Full RB





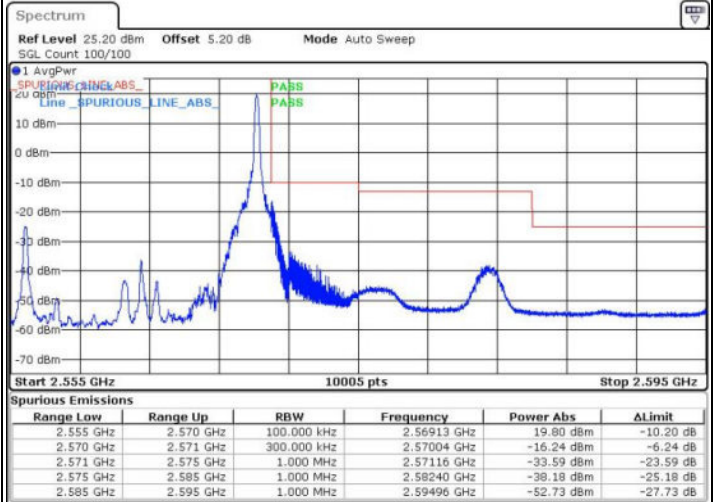
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



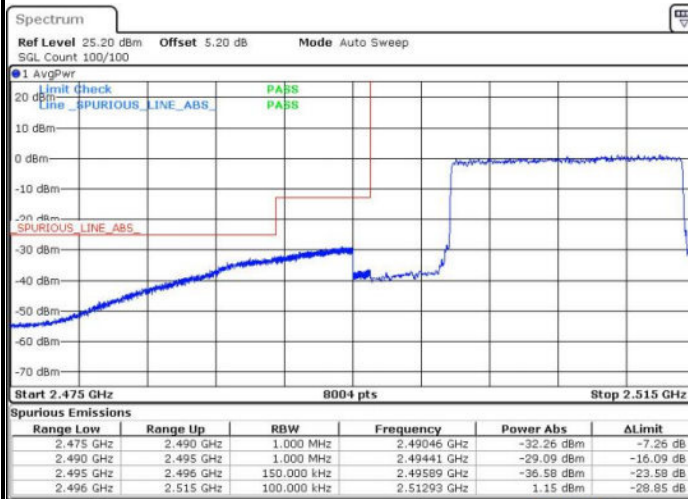
Date: 10 JUN 2016 15:36:48

Highest Band Edge / 1 RB



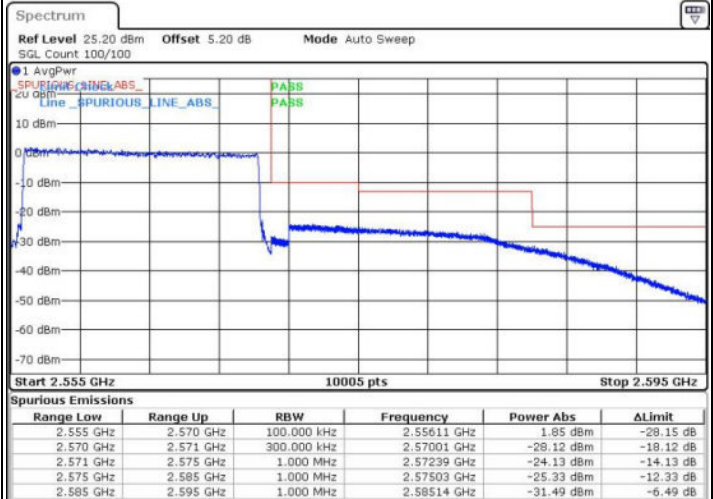
Date: 10 JUN 2016 15:42:35

Lowest Band Edge / Full RB



Date: 10 JUN 2016 15:37:58

Highest Band Edge / Full RB

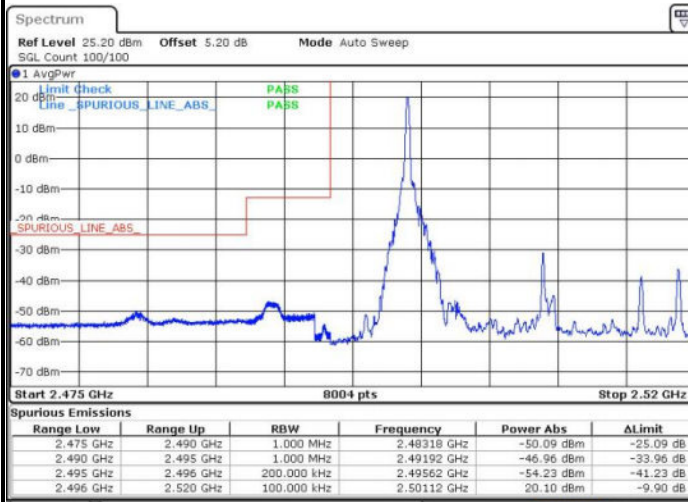


Date: 10 JUN 2016 15:41:26

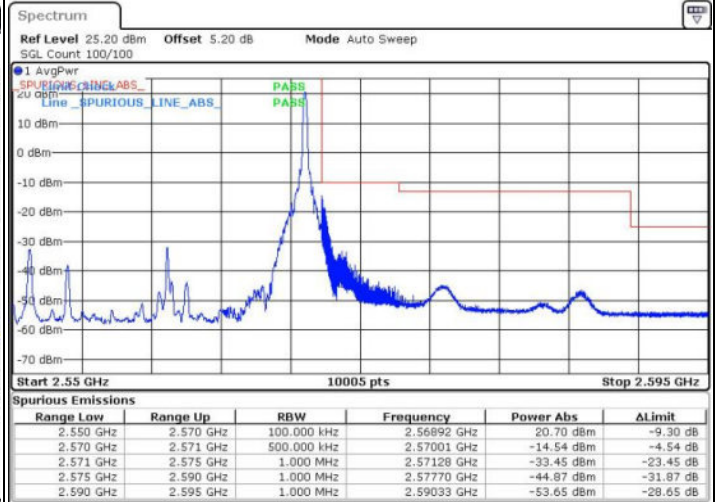


LTE Band 7 / 20MHz / QPSK

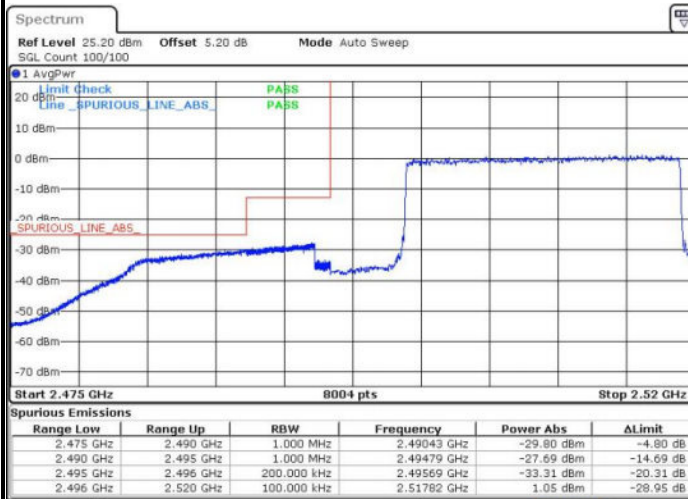
Lowest Band Edge / 1 RB



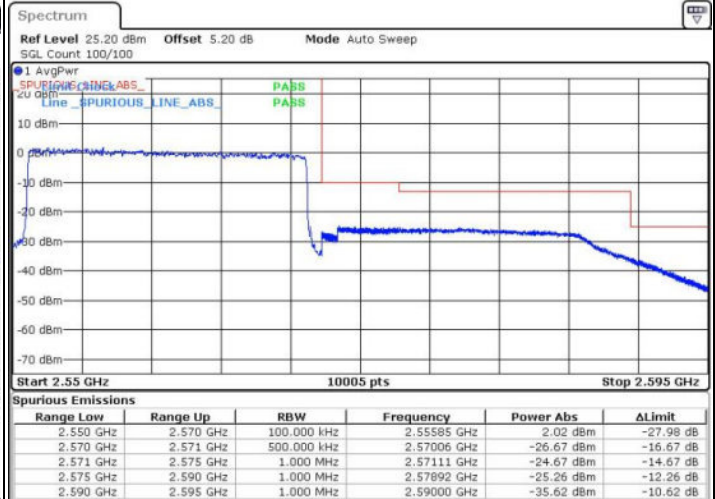
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



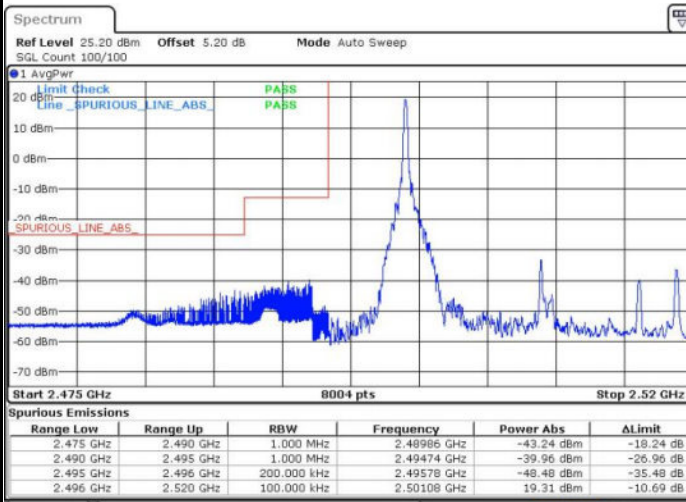
Highest Band Edge / Full RB



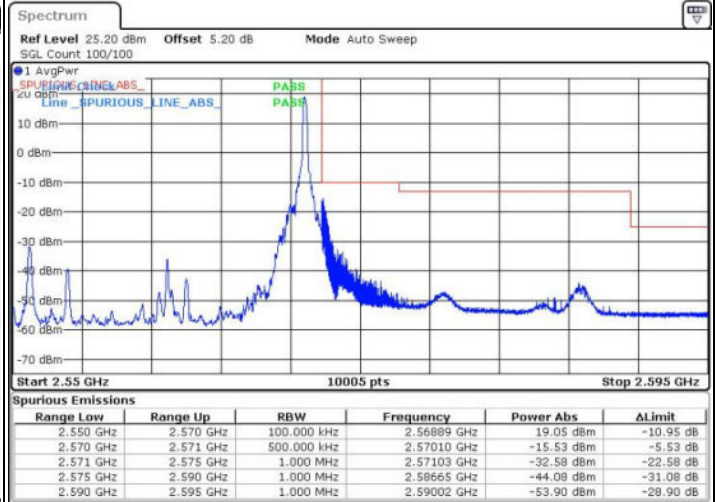


LTE Band 7 / 20MHz / 16QAM

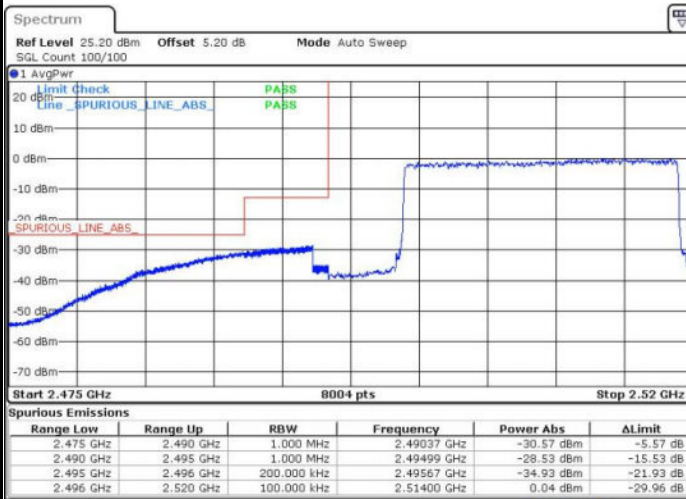
Lowest Band Edge / 1 RB



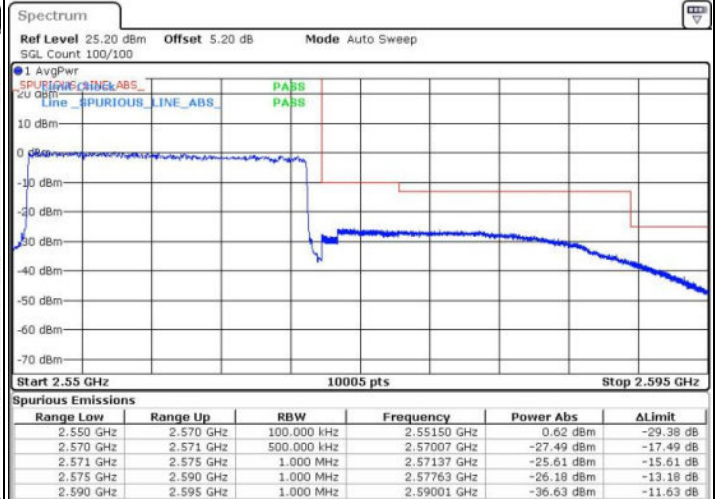
Highest Band Edge / 1RB

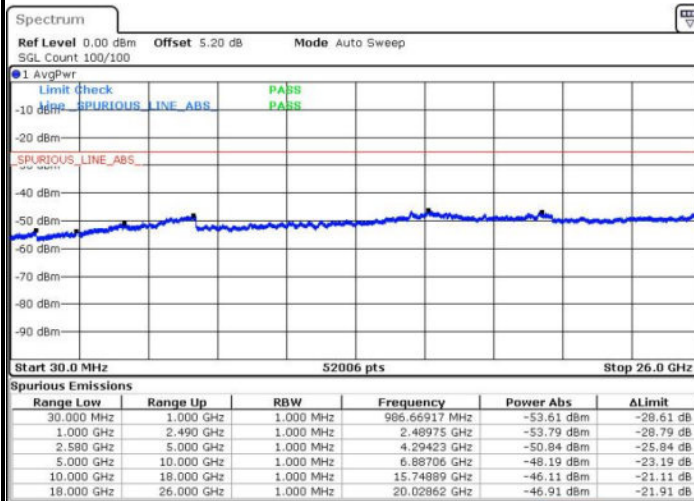
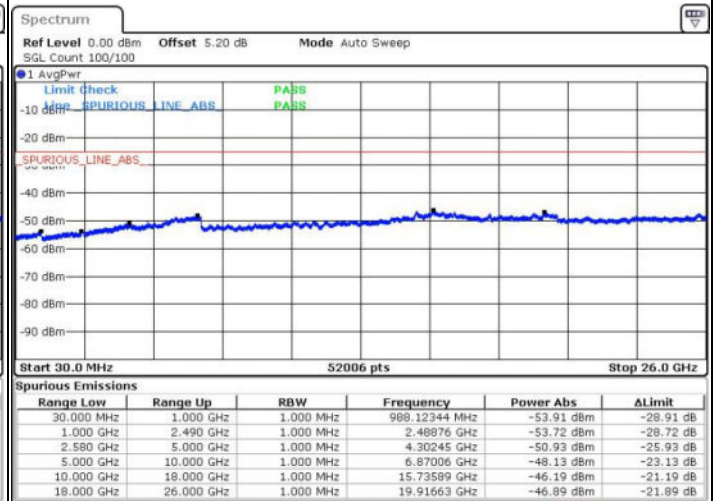
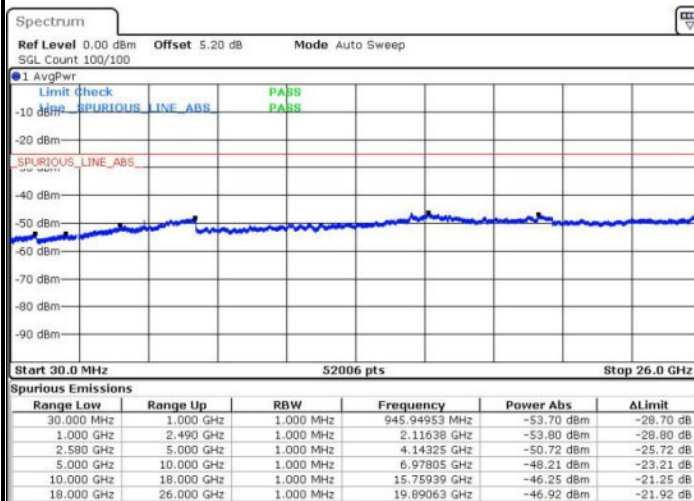
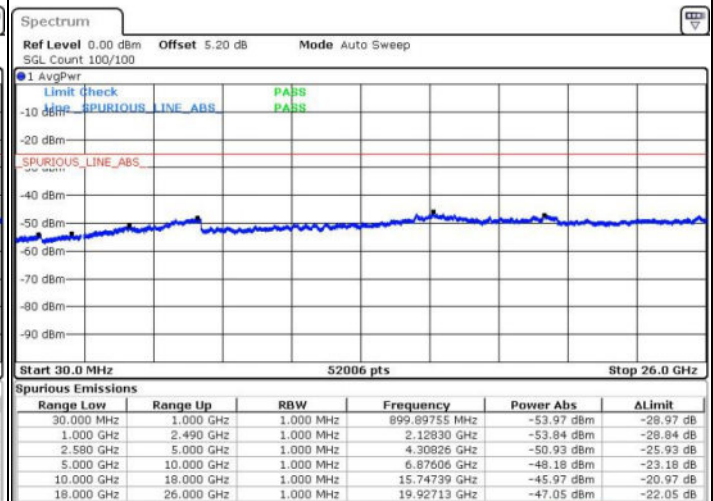


Lowest Band Edge / Full RB



Highest Band Edge / Full RB

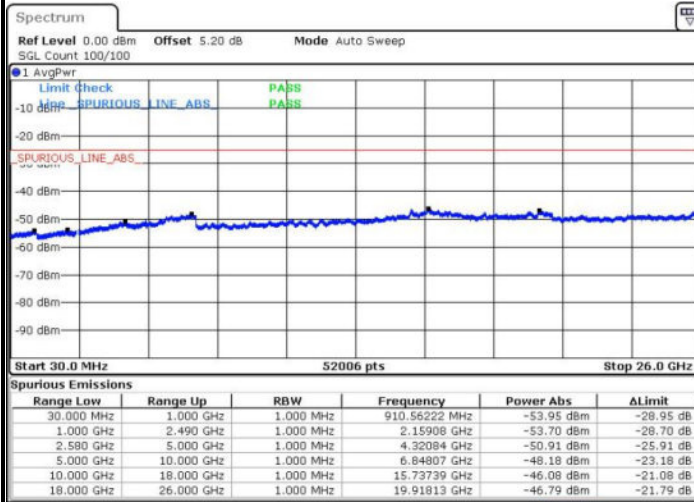


**Conducted Spurious Emission****LTE Band 7 / 5MHz****Lowest Channel / QPSK****Lowest Channel / 16QAM****Middle Channel / QPSK****Middle Channel / 16QAM**



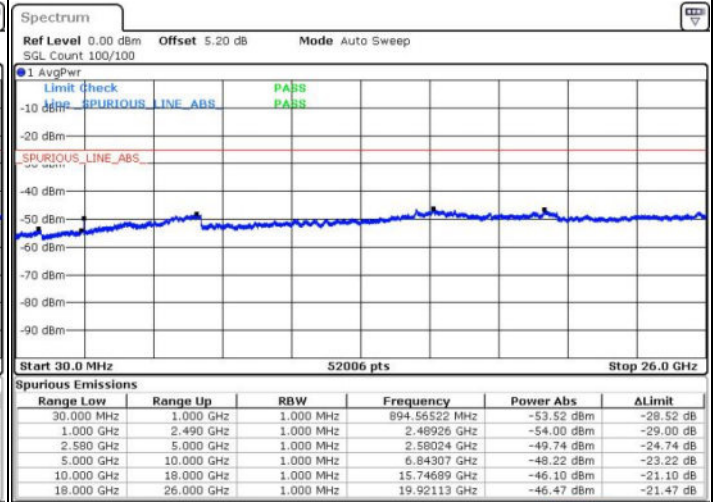
LTE Band 7 / 5MHz

Highest Channel / QPSK



Date: 10 JUN 2016 15:14:22

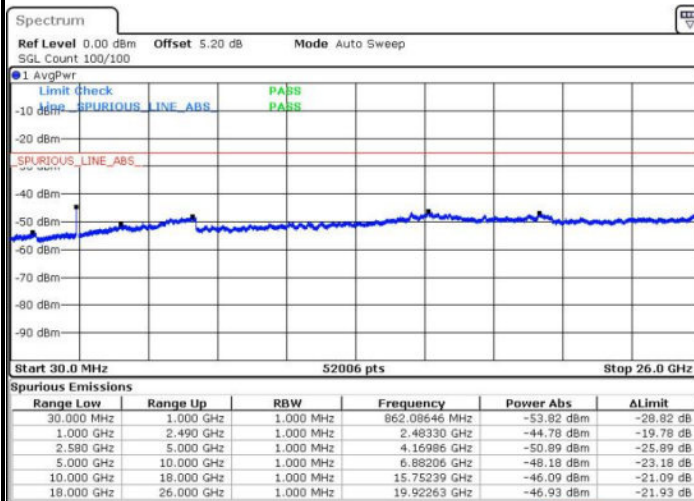
Highest Channel / 16QAM



Date: 10 JUN 2016 15:15:18

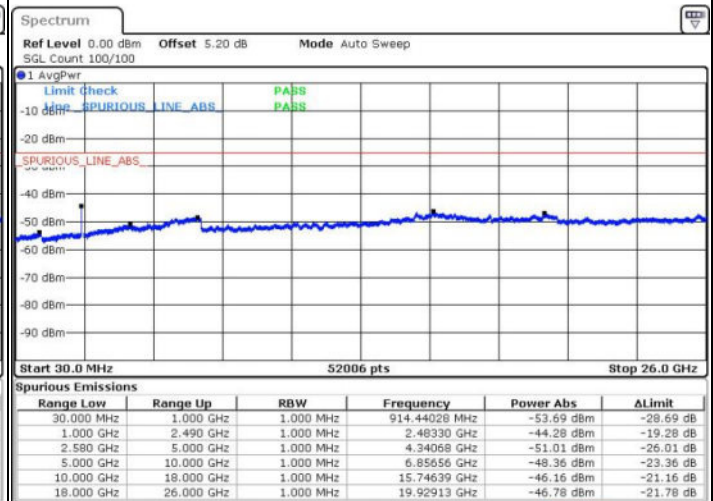
LTE Band 7 / 10MHz

Lowest Channel / QPSK



Date: 10 JUN 2016 15:27:39

Lowest Channel / 16QAM

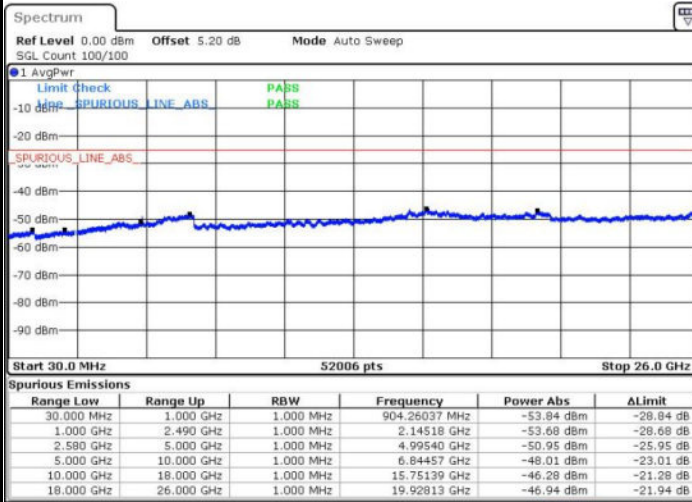


Date: 10 JUN 2016 15:28:34



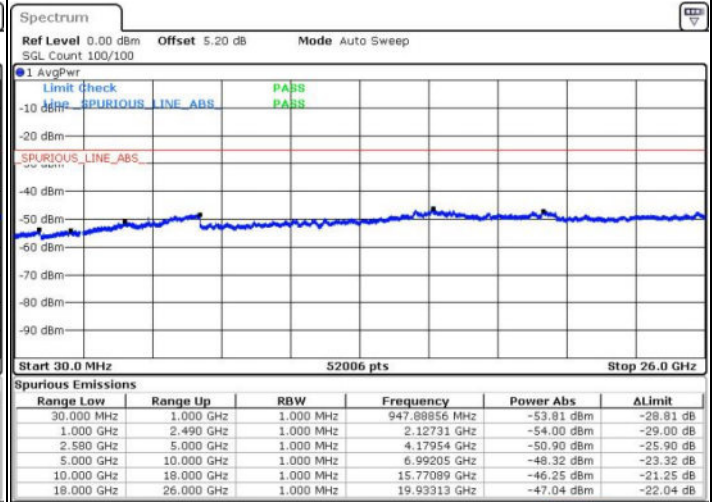
LTE Band 7 / 10MHz

Middle Channel / QPSK



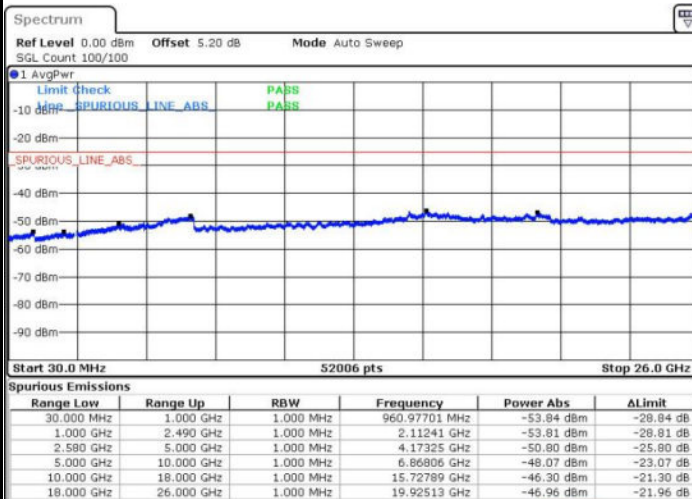
Date: 10 JUN 2016 15:30:26

Middle Channel / 16QAM



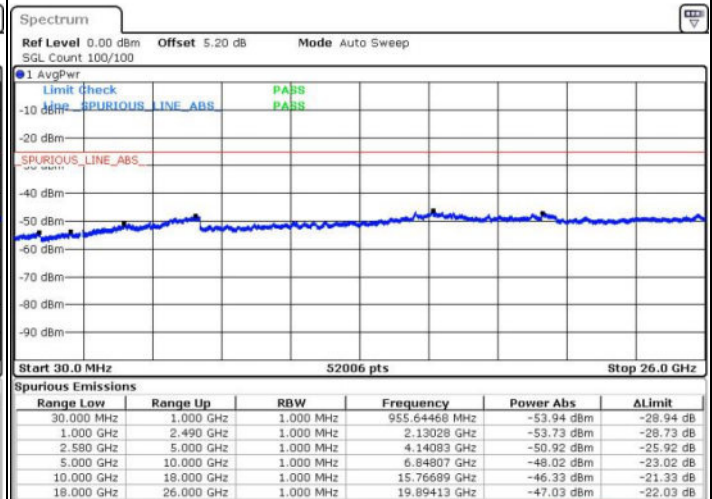
Date: 10 JUN 2016 15:29:30

Highest Channel / QPSK



Date: 10 JUN 2016 15:31:21

Highest Channel / 16QAM

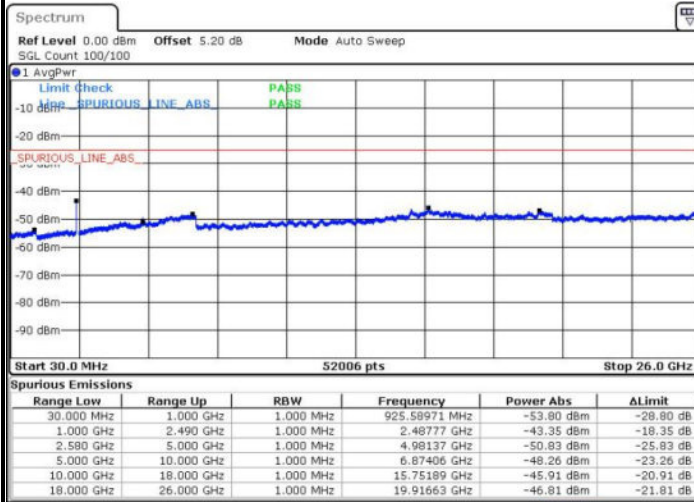


Date: 10 JUN 2016 15:32:16



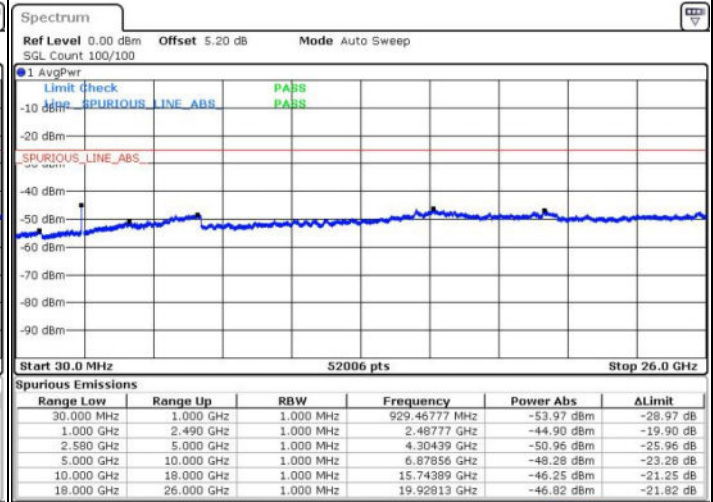
LTE Band 7 / 15MHz

Lowest Channel / QPSK



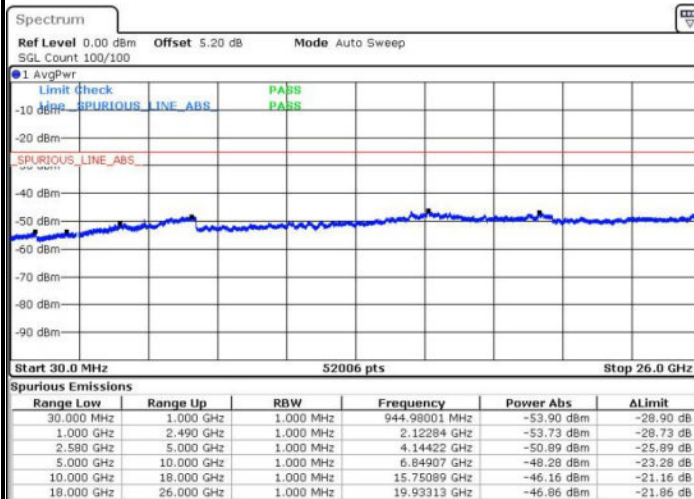
Date: 10 JUN 2016 15:44:38

Lowest Channel / 16QAM



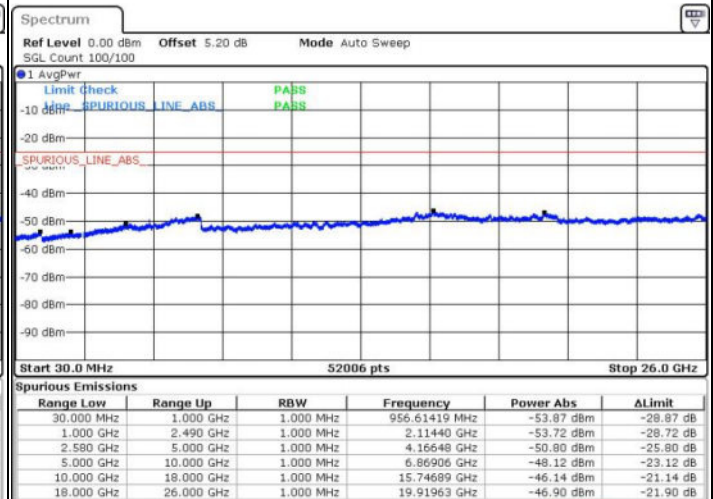
Date: 10 JUN 2016 15:45:33

Middle Channel / QPSK



Date: 10 JUN 2016 15:47:24

Middle Channel / 16QAM

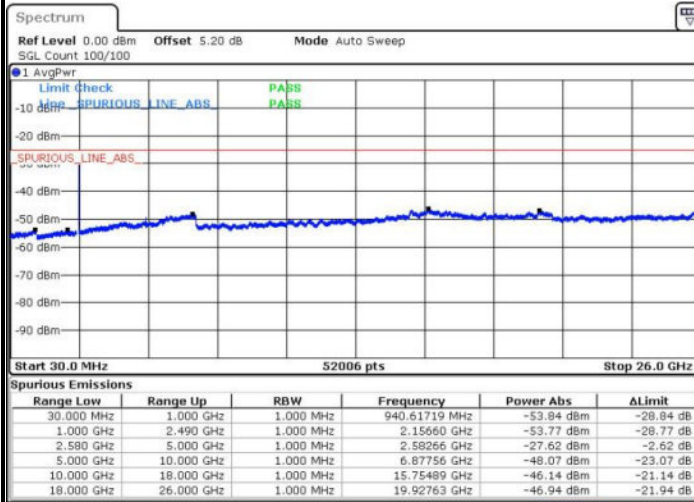


Date: 10 JUN 2016 15:46:28



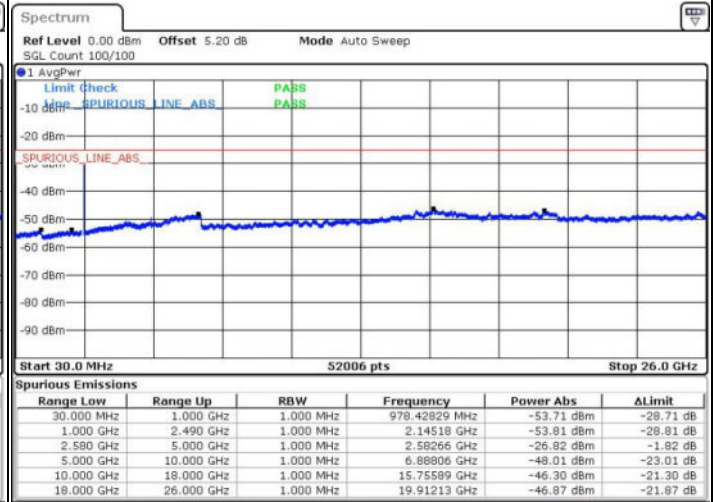
LTE Band7 / 15MHz

Highest Channel / QPSK



Date: 10 JUN 2016 15:48:19

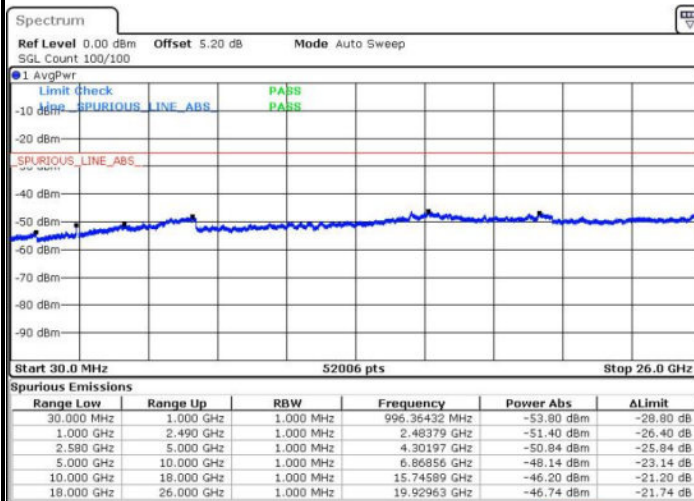
Highest Channel / 16QAM



Date: 10 JUN 2016 15:48:14

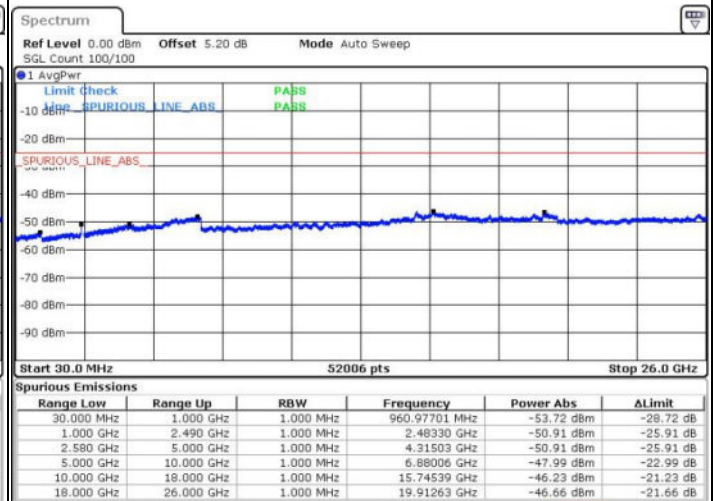
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 10 JUN 2016 16:01:33

Lowest Channel / 16QAM

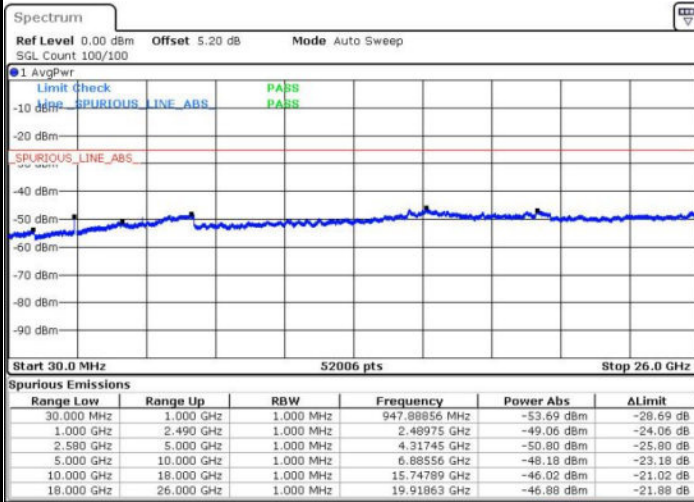


Date: 10 JUN 2016 16:02:29



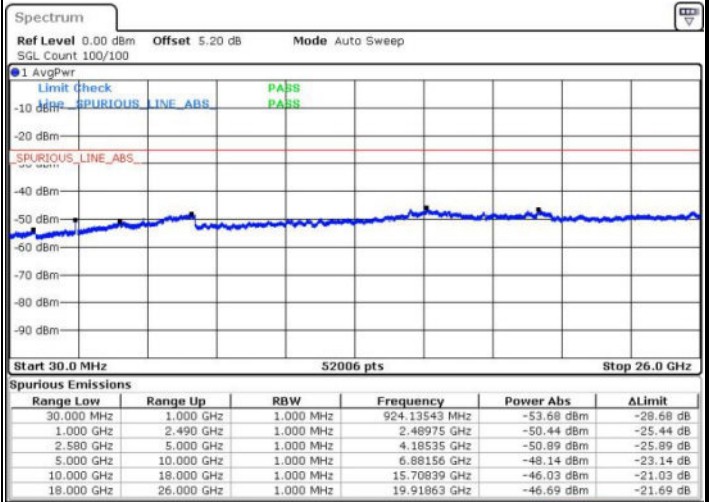
LTE Band 7 / 20MHz

Middle Channel / QPSK



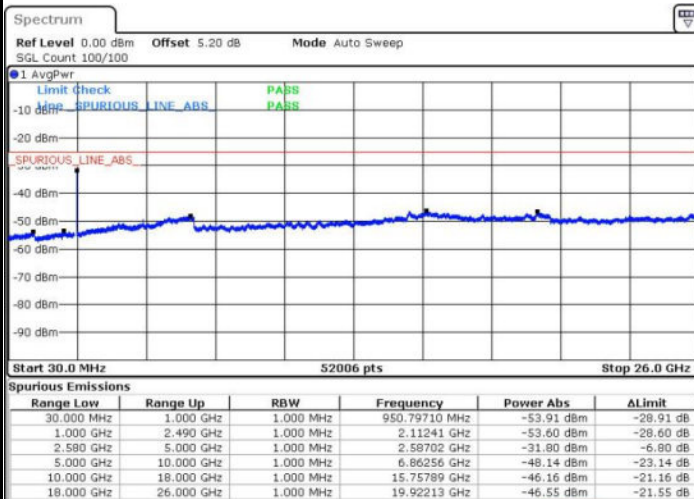
Date: 10 JUN 2016 16 04 20

Middle Channel / 16QAM



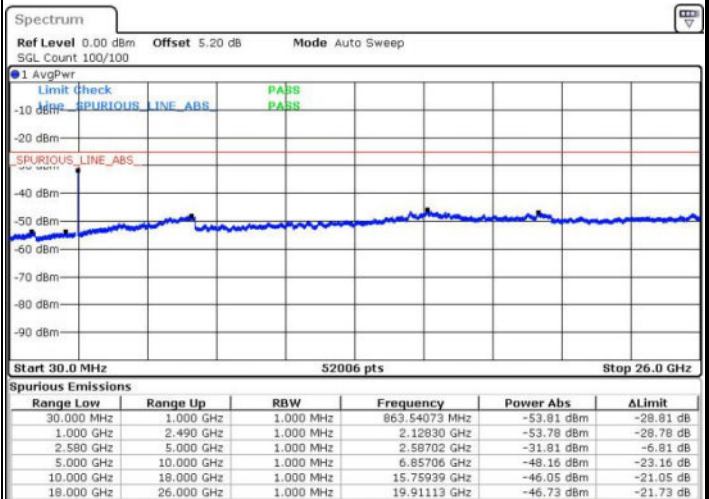
Date: 10 JUN 2016 16 03 24

Highest Channel / QPSK



Date: 10 JUN 2016 16 05 15

Highest Channel / 16QAM



Date: 10 JUN 2016 16 06 10

**Frequency Stability**

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0026	PASS
40	Normal Voltage	0.0013	
30	Normal Voltage	0.0020	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0015	
0	Normal Voltage	0.0027	
-10	Normal Voltage	0.0008	
-20	Normal Voltage	0.0030	
-30	Normal Voltage	0.0004	
20	Maximum Voltage	0.0007	
20	Normal Voltage	0.0019	
20	Battery End Point	0.0022	

Note:

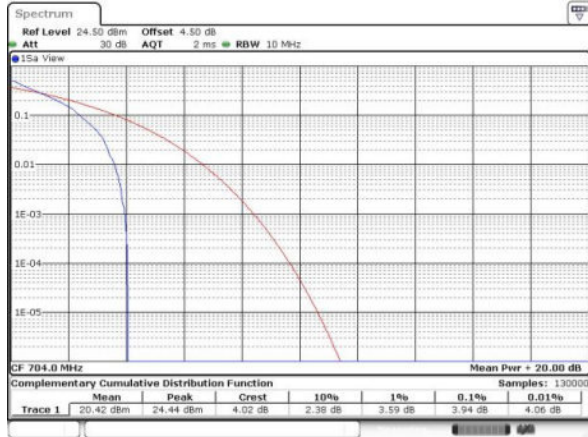
1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.7V. ; Maximum Voltage =4.2 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



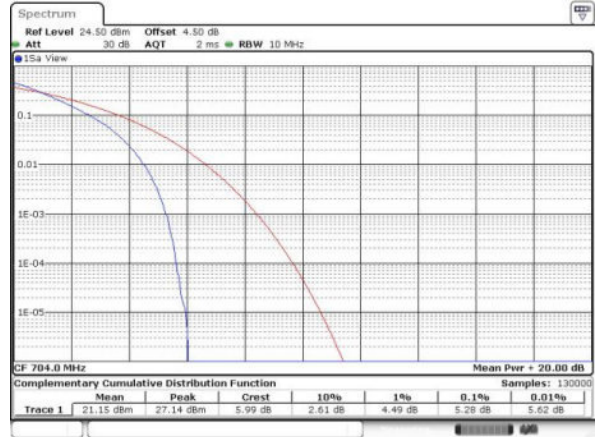
LTE Band 12

Peak-to-Average Ratio

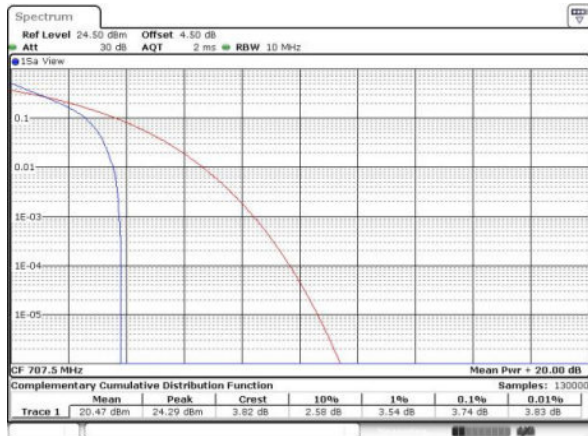
Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.94	5.28	5.04	6.12	PASS
Middle CH	3.74	5.04	4.55	5.97	
Highest CH	4.35	4.87	5.39	5.80	

LTE Band 12 / 10MHz / QPSK
Lowest Channel / 1RB


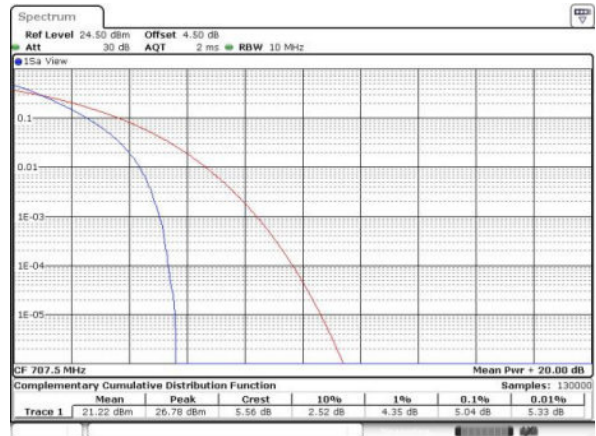
Date: 7 JUN 2016 14:33:29

Lowest Channel / Full RB


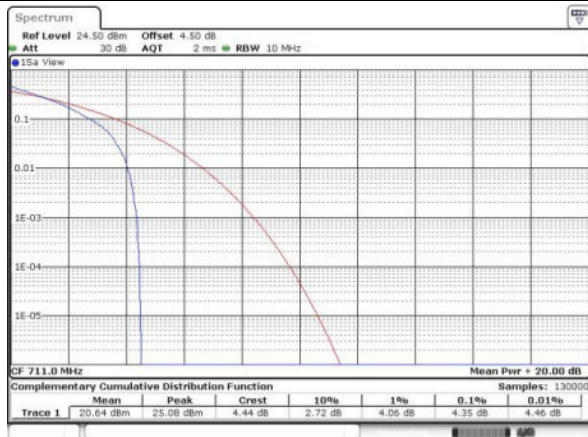
Date: 7 JUN 2016 14:34:08

Middle Channel / 1RB


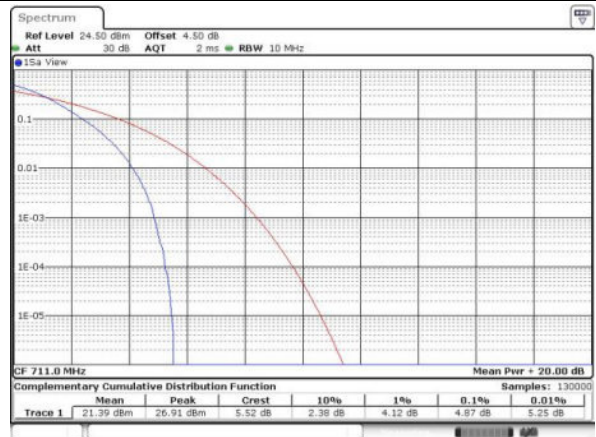
Date: 7 JUN 2016 14:34:56

Middle Channel / Full RB


Date: 7 JUN 2016 14:34:21

Highest Channel / 1RB


Date: 7 JUN 2016 14:35:13

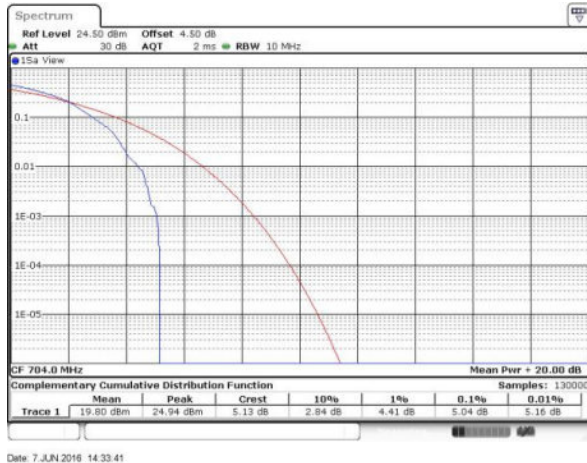
Highest Channel / Full RB


Date: 7 JUN 2016 14:35:46

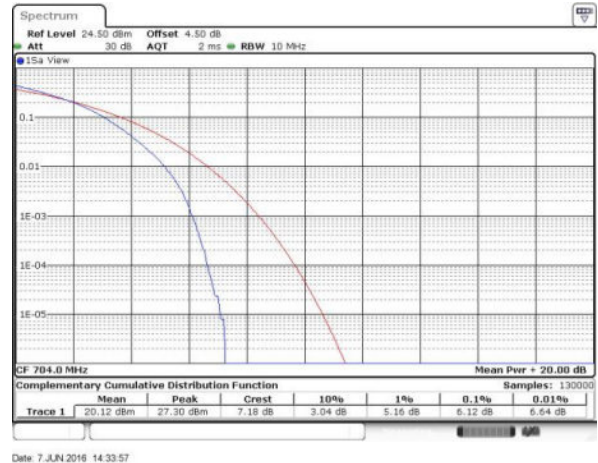


LTE Band 12 / 10MHz / 16QAM

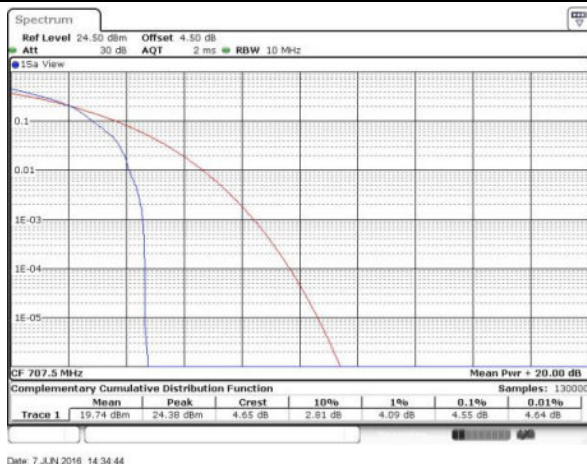
Lowest Channel / 1RB



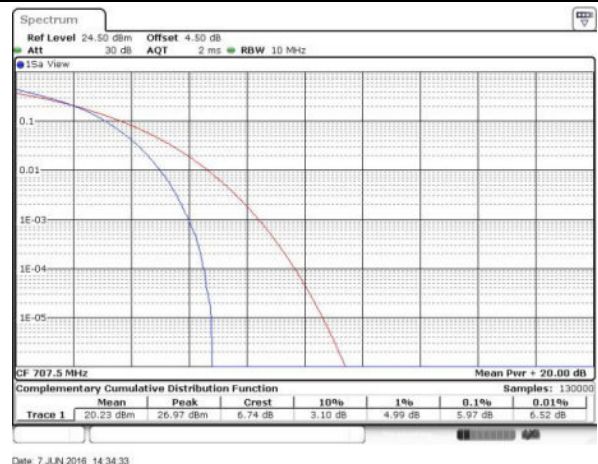
Lowest Channel / Full RB



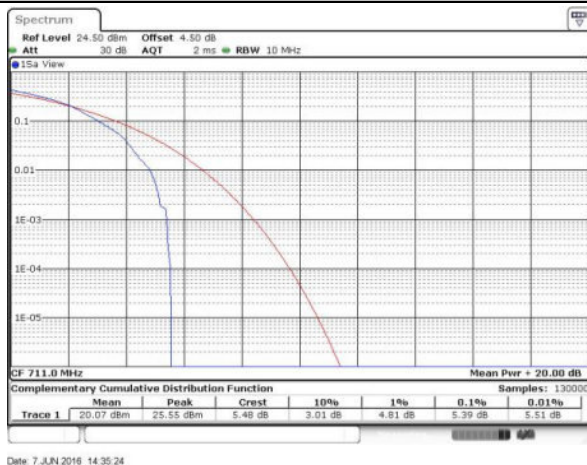
Middle Channel / 1RB



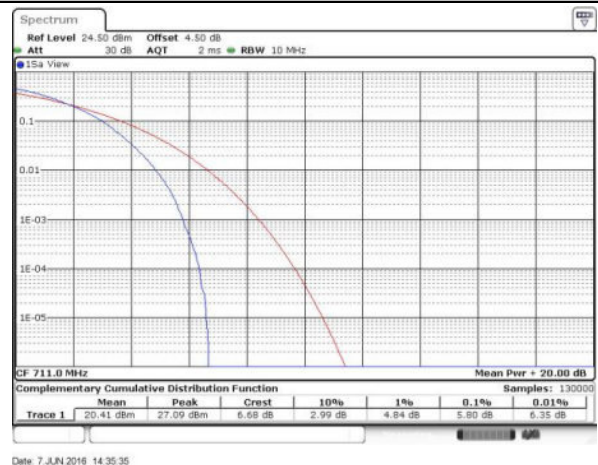
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



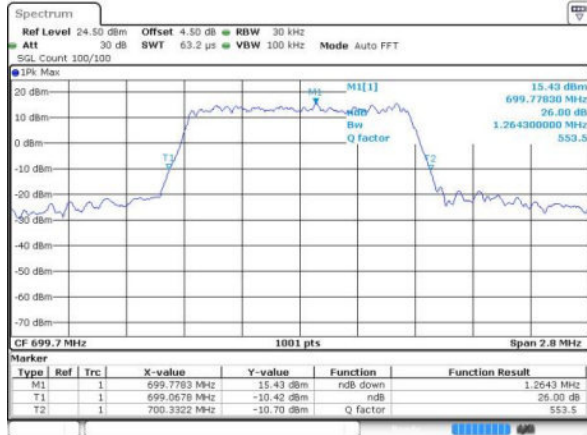
**26dB Bandwidth**

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	1.264	1.259	2.967	2.967	5.025	4.945	9.750	9.890	-	-	-	-
Middle CH	1.253	1.253	2.991	2.973	4.975	4.915	9.750	9.850	-	-	-	-
Highest CH	1.245	1.256	2.973	3.009	4.965	4.985	9.670	9.670	-	-	-	-



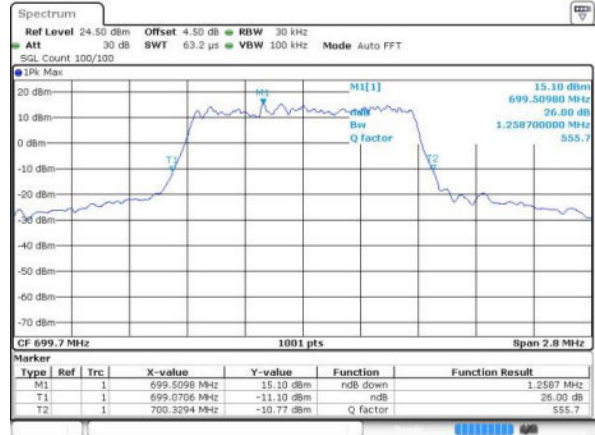
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



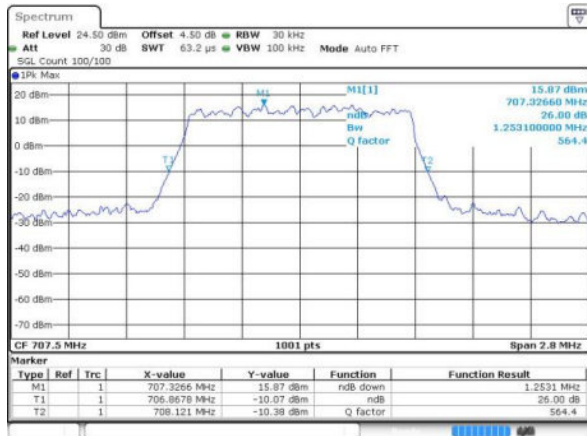
Date: 7 JUN 2016 11:02:51

Lowest Channel / 1.4MHz / 16QAM



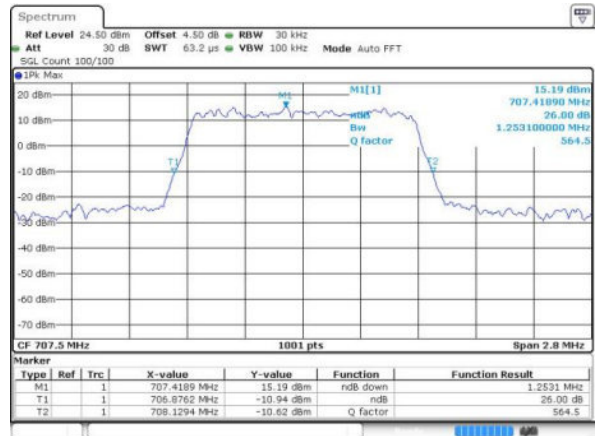
Date: 7 JUN 2016 11:03:12

Middle Channel / 1.4MHz / QPSK



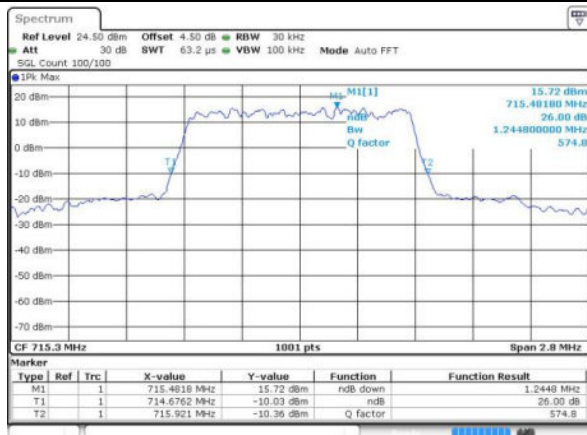
Date: 7 JUN 2016 11:03:53

Middle Channel / 1.4MHz / 16QAM



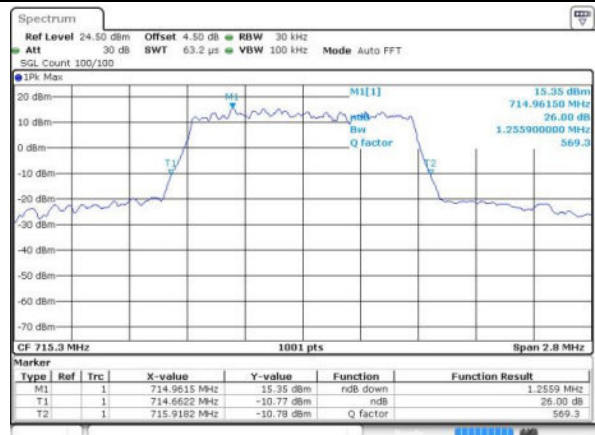
Date: 7 JUN 2016 11:03:32

Highest Channel / 1.4MHz / QPSK



Date: 7 JUN 2016 11:04:15

Highest Channel / 1.4MHz / 16QAM

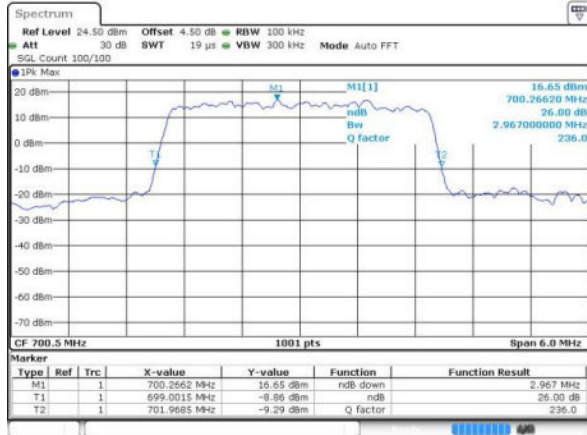


Date: 7 JUN 2016 11:04:35

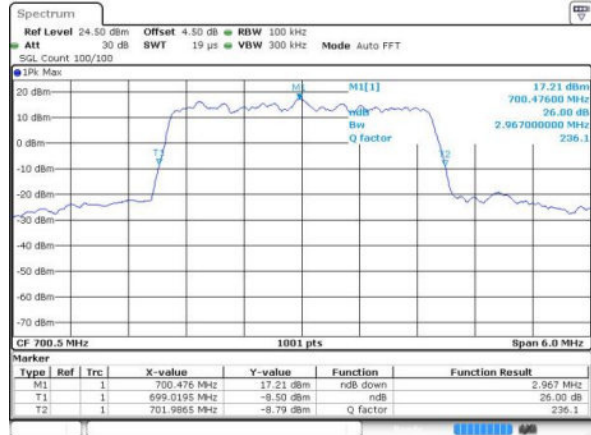


LTE Band 12

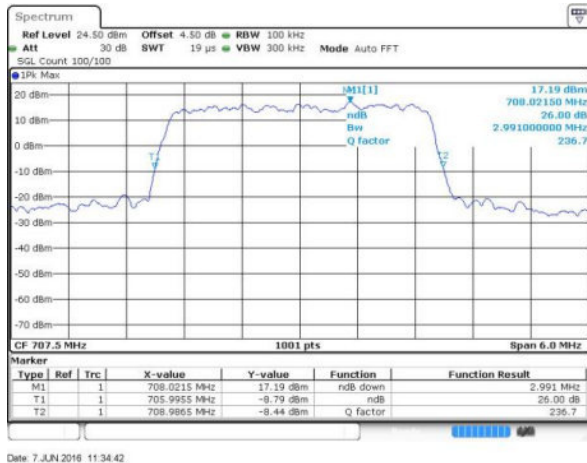
Lowest Channel / 3MHz / QPSK



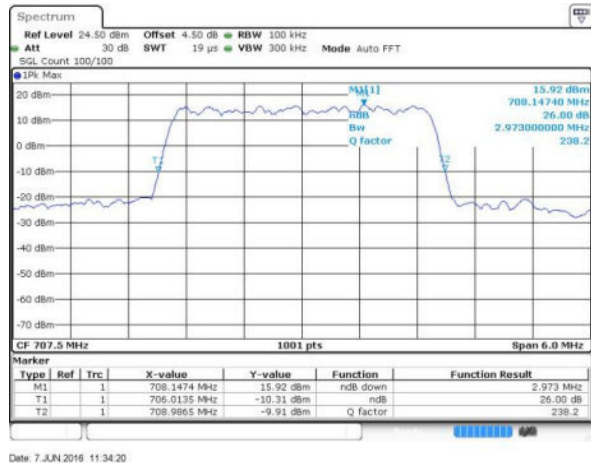
Lowest Channel / 3MHz / 16QAM



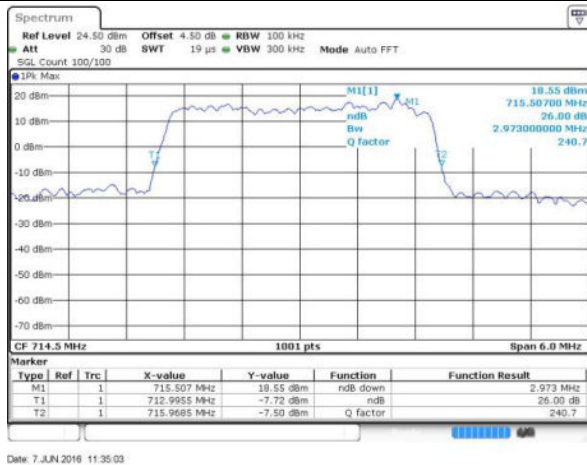
Middle Channel / 3MHz / QPSK



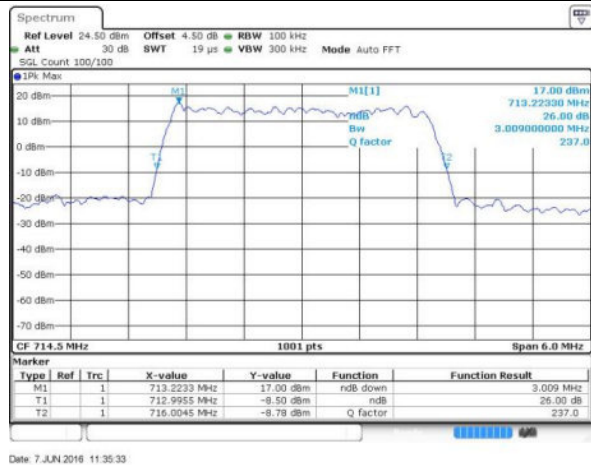
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



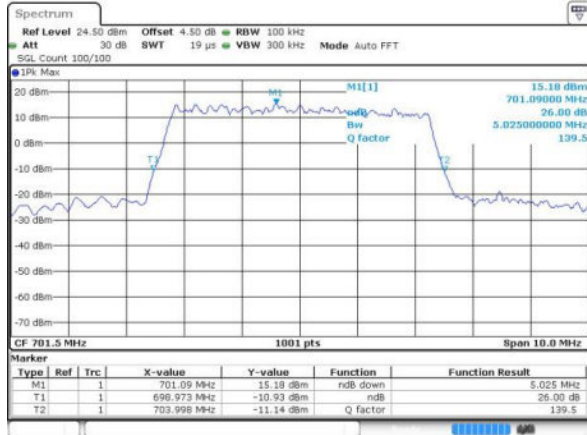
Highest Channel / 3MHz / 16QAM





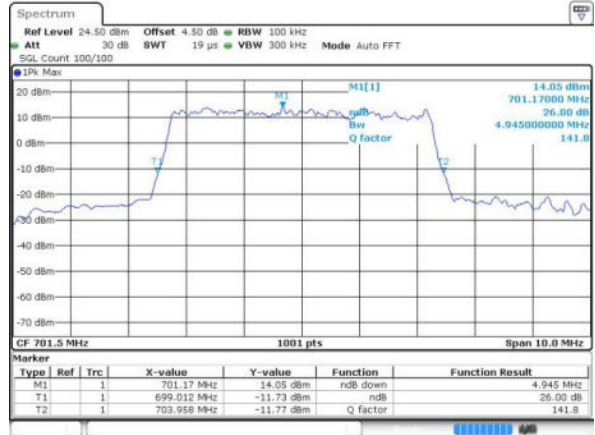
LTE Band 12

Lowest Channel / 5MHz / QPSK



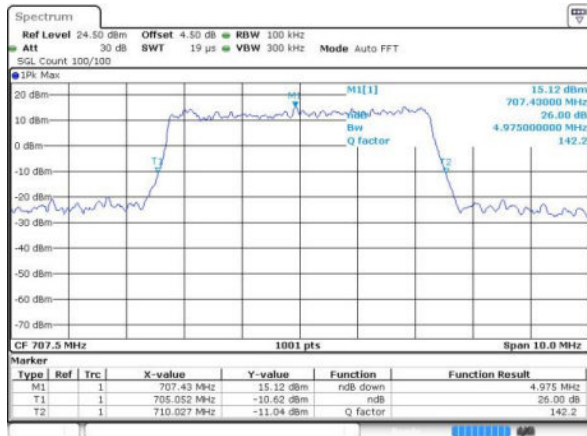
Date: 7 JUN 2016 11:46:10

Lowest Channel / 5MHz / 16QAM



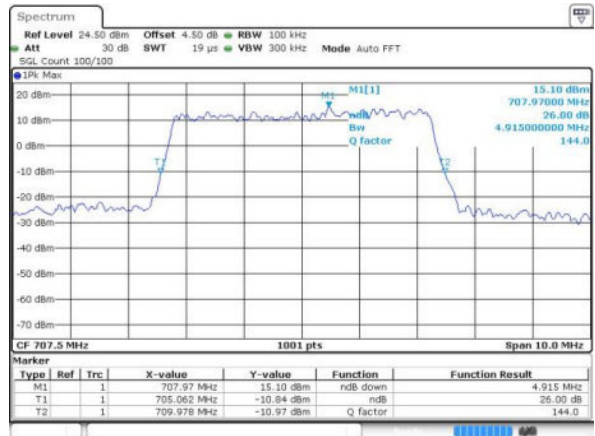
Date: 7 JUN 2016 11:46:31

Middle Channel / 5MHz / QPSK



Date: 7 JUN 2016 11:47:11

Middle Channel / 5MHz / 16QAM



Date: 7 JUN 2016 11:47:43

Highest Channel / 5MHz / QPSK



Date: 7 JUN 2016 11:48:29

Highest Channel / 5MHz / 16QAM

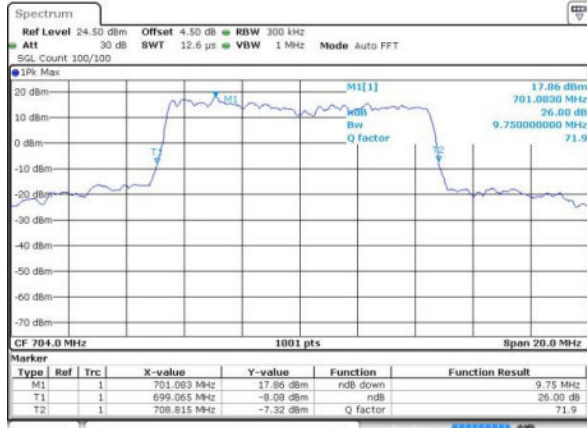


Date: 7 JUN 2016 11:48:07

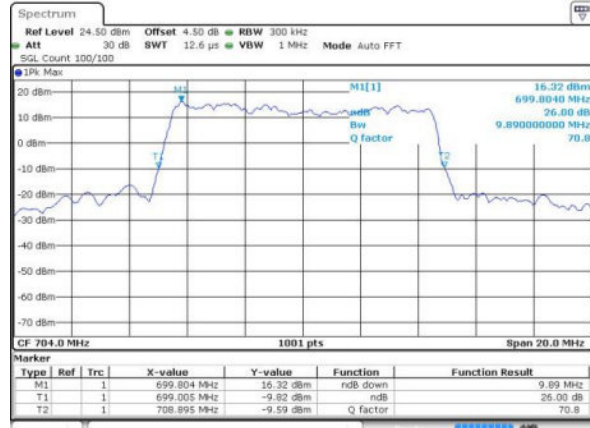


LTE Band 12

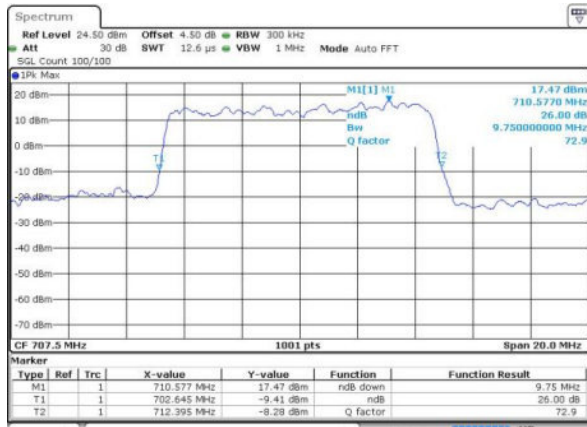
Lowest Channel / 10MHz / QPSK



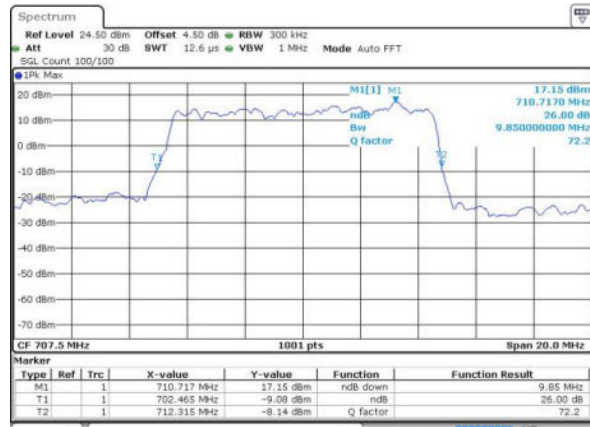
Lowest Channel / 10MHz / 16QAM



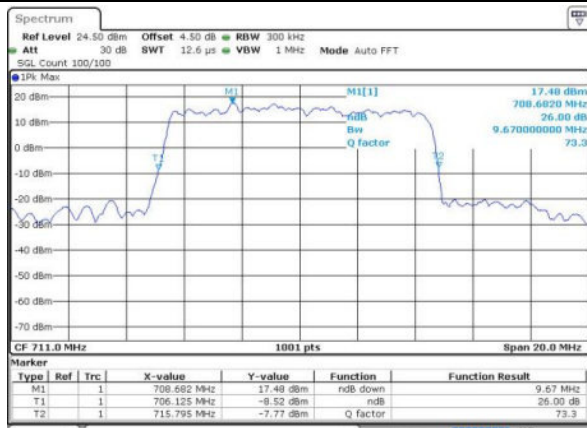
Middle Channel / 10MHz / QPSK



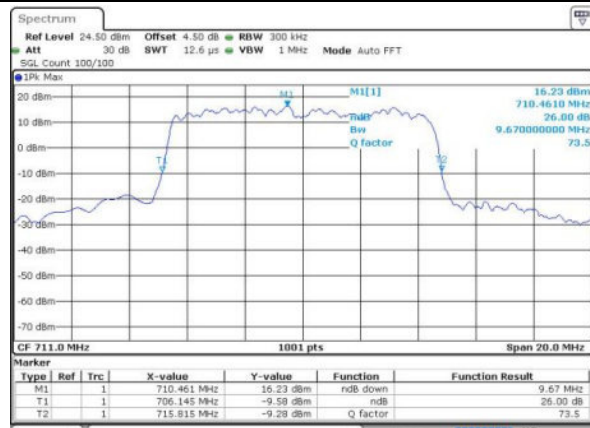
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK

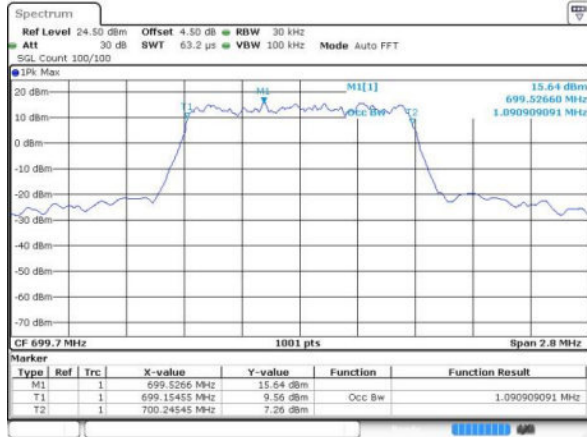


Highest Channel / 10MHz / 16QAM

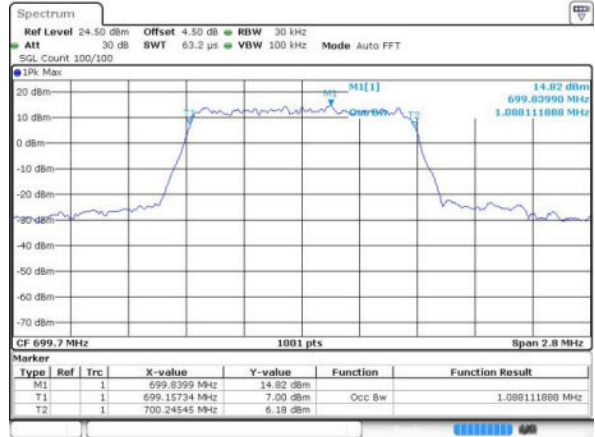


**Occupied Bandwidth**

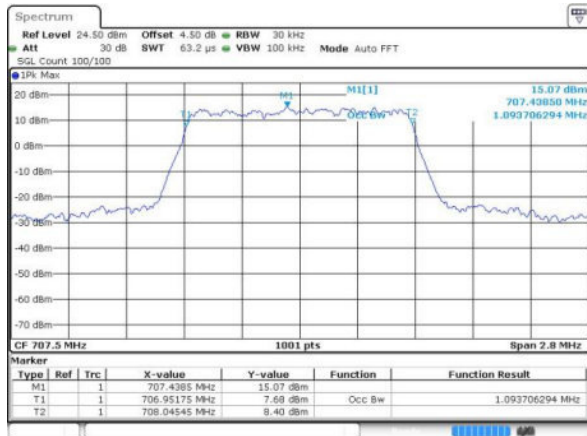
Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.09	2.73	2.70	4.48	4.50	9.05	9.07	-	-	-	-
Middle CH	1.09	1.09	2.72	2.72	4.52	4.52	9.05	9.03	-	-	-	-
Highest CH	1.10	1.09	2.71	2.71	4.50	4.52	9.03	8.99	-	-	-	-

**LTE Band 12****Lowest Channel / 1.4MHz / QPSK**

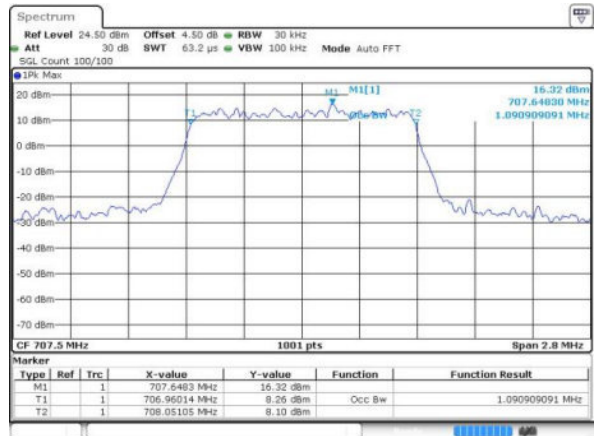
Date: 7 JUN 2016 11:02:40

Lowest Channel / 1.4MHz / 16QAM

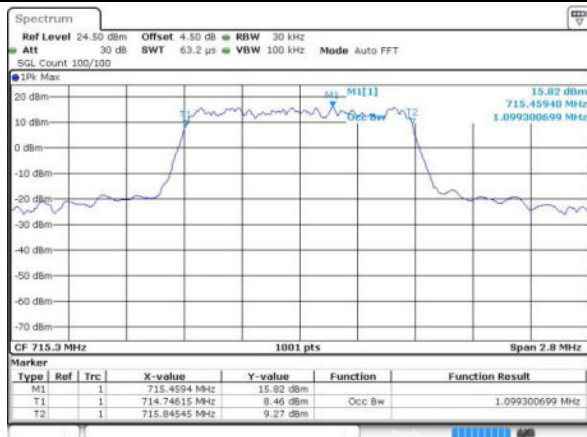
Date: 7 JUN 2016 11:03:01

Middle Channel / 1.4MHz / QPSK

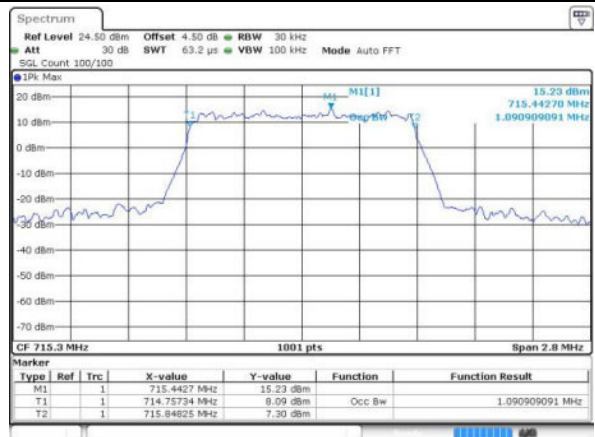
Date: 7 JUN 2016 11:03:43

Middle Channel / 1.4MHz / 16QAM

Date: 7 JUN 2016 11:03:22

Highest Channel / 1.4MHz / QPSK

Date: 7 JUN 2016 11:04:04

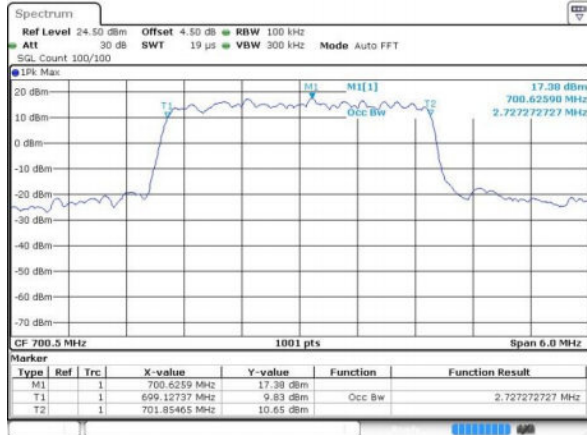
Highest Channel / 1.4MHz / 16QAM

Date: 7 JUN 2016 11:04:25

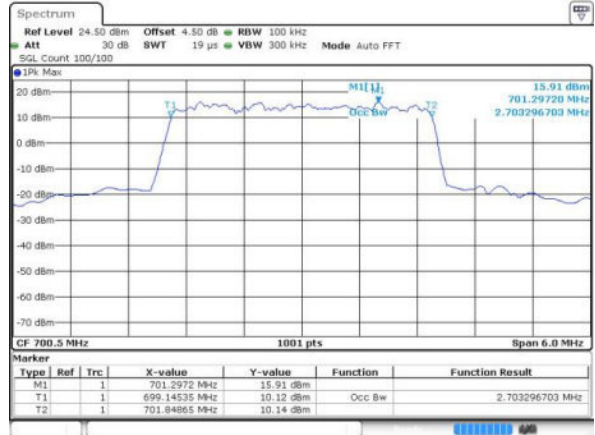


LTE Band 12

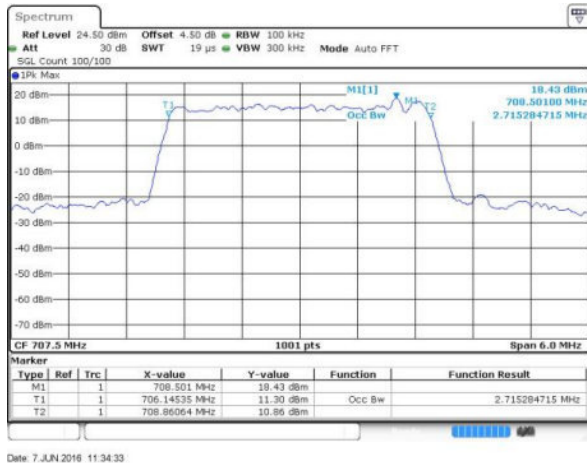
Lowest Channel / 3MHz / QPSK



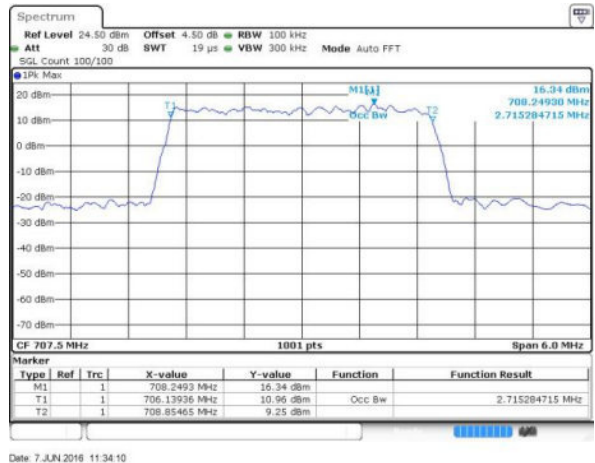
Lowest Channel / 3MHz / 16QAM



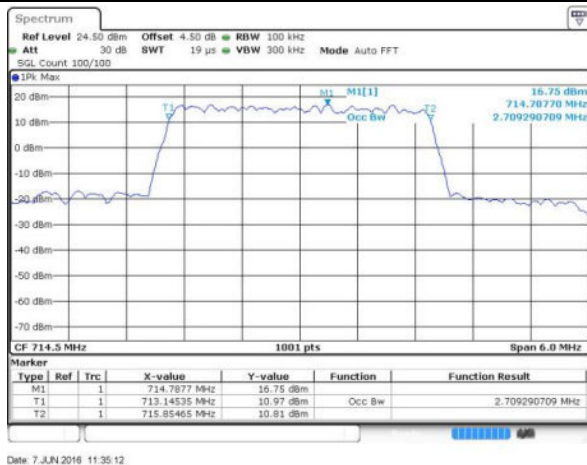
Middle Channel / 3MHz / QPSK



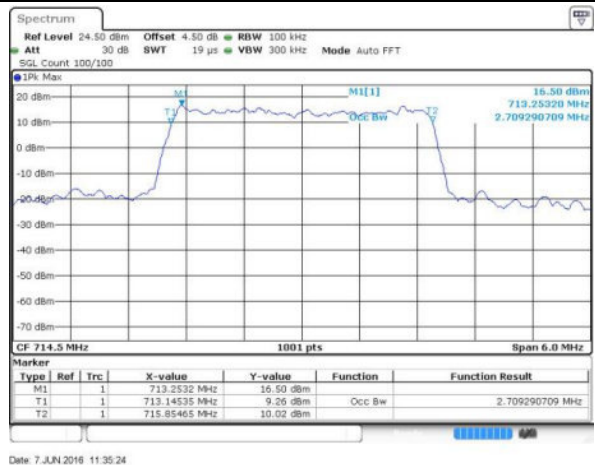
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



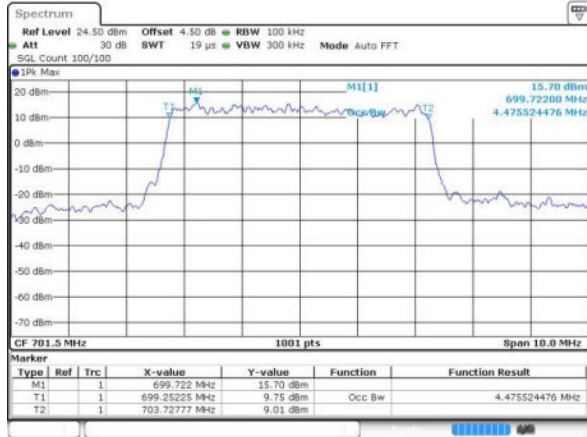
Highest Channel / 3MHz / 16QAM



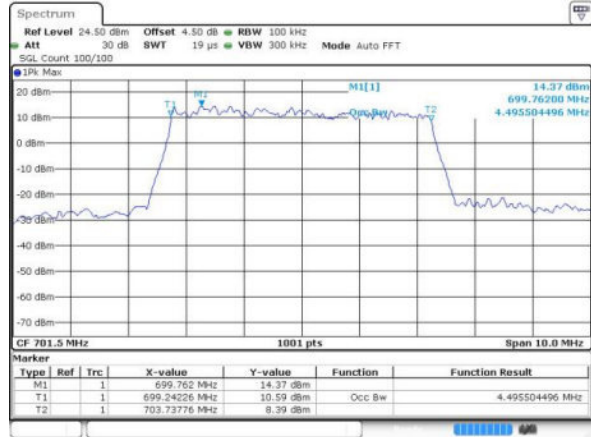


LTE Band 12

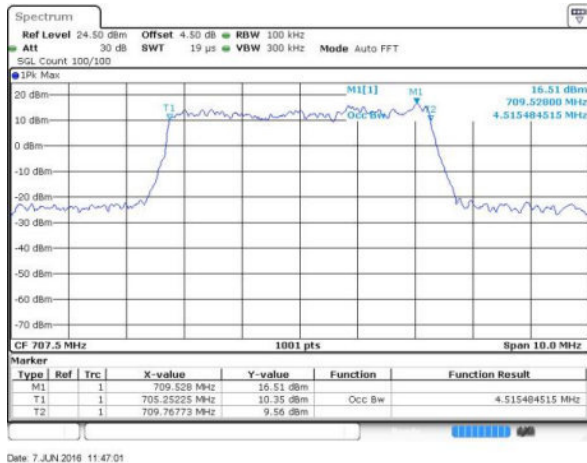
Lowest Channel / 5MHz / QPSK



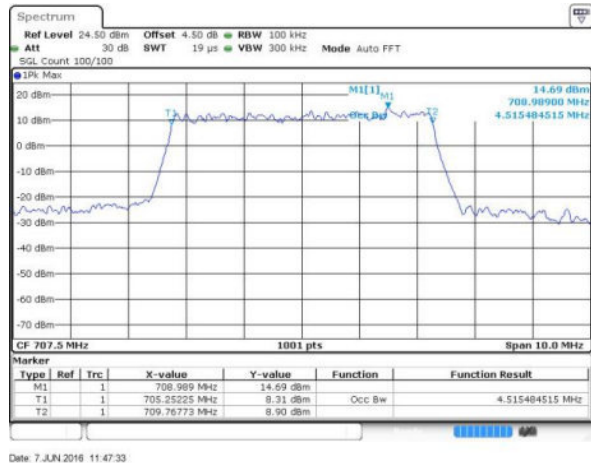
Lowest Channel / 5MHz / 16QAM



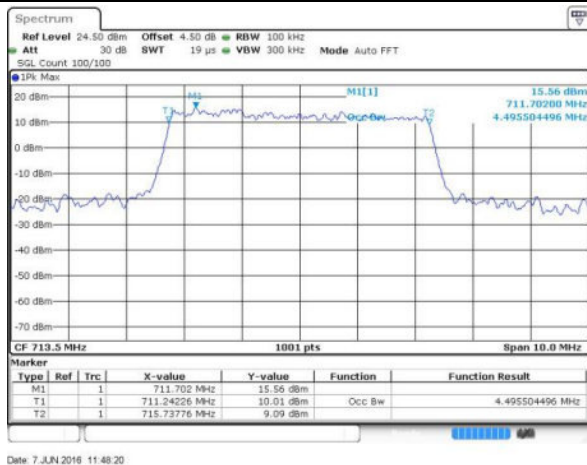
Middle Channel / 5MHz / QPSK



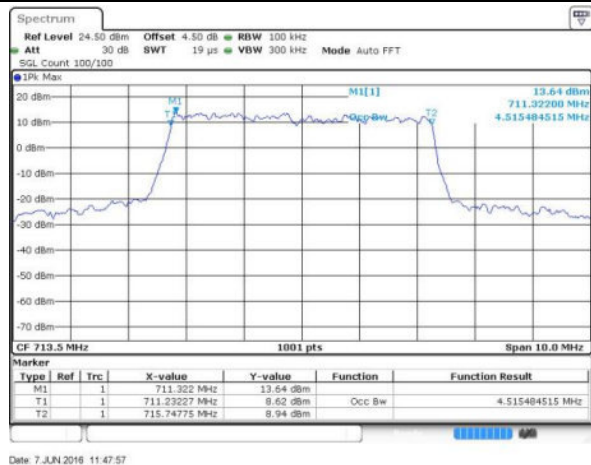
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



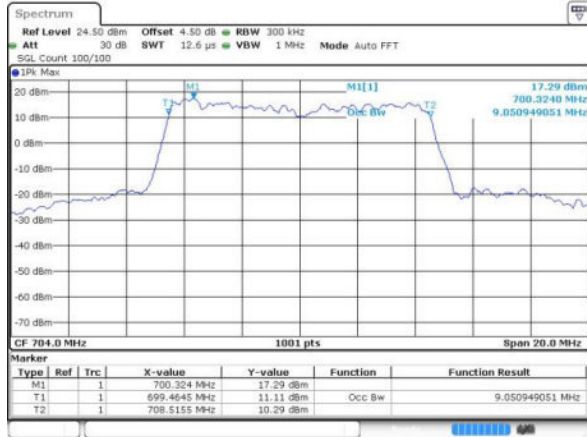
Highest Channel / 5MHz / 16QAM



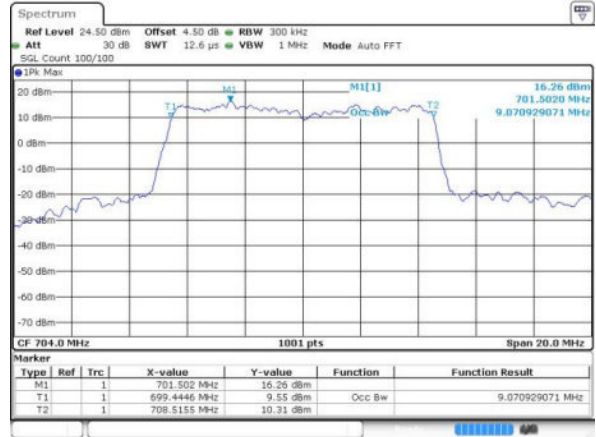


LTE Band 12

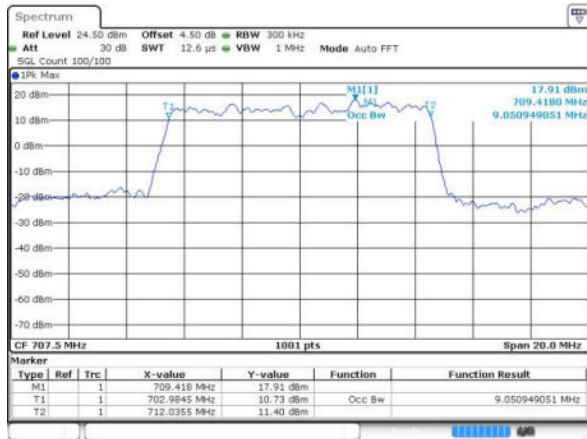
Lowest Channel / 10MHz / QPSK



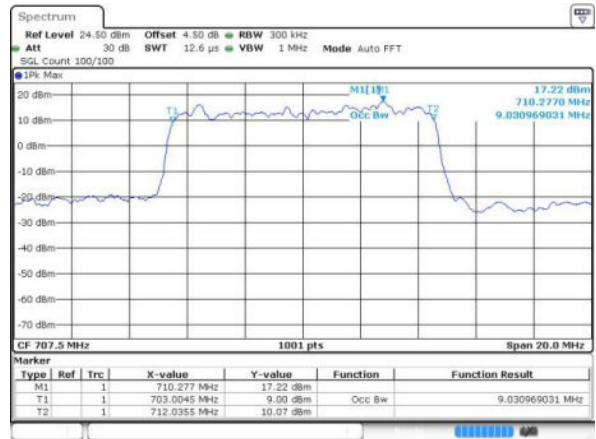
Lowest Channel / 10MHz / 16QAM



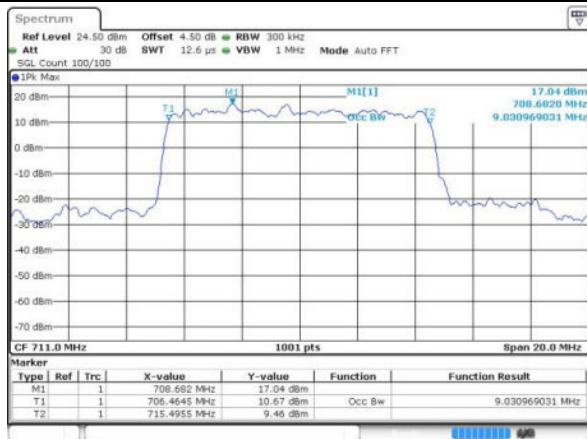
Middle Channel / 10MHz / QPSK



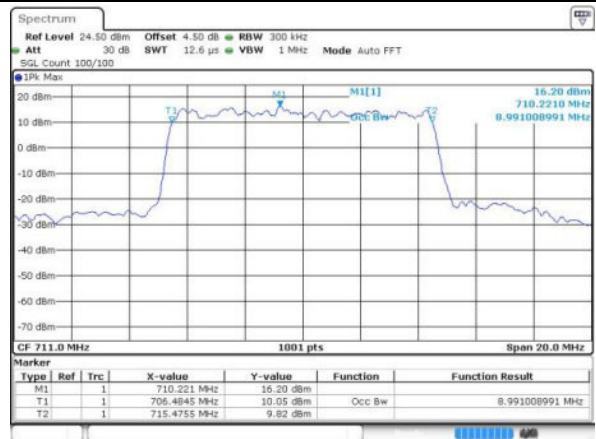
Middle Channel / 10MHz / 16QAM

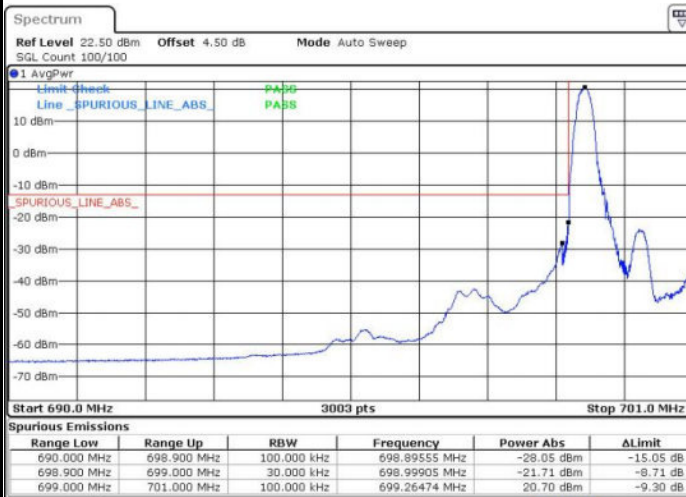


Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM

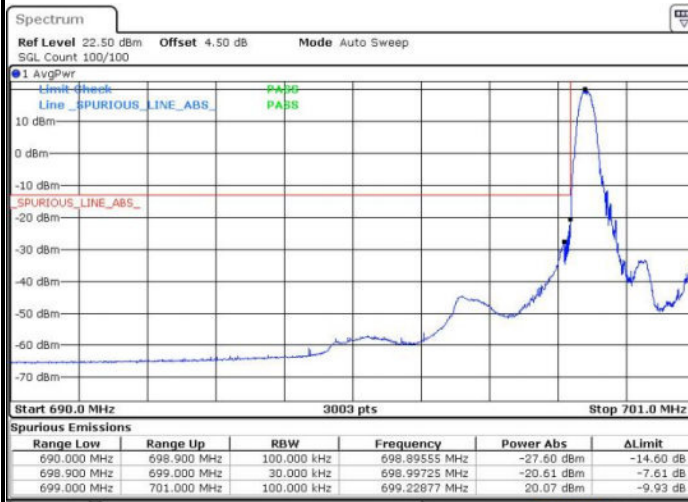


**Conducted Band Edge****LTE Band 12 / 1.4MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**



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

