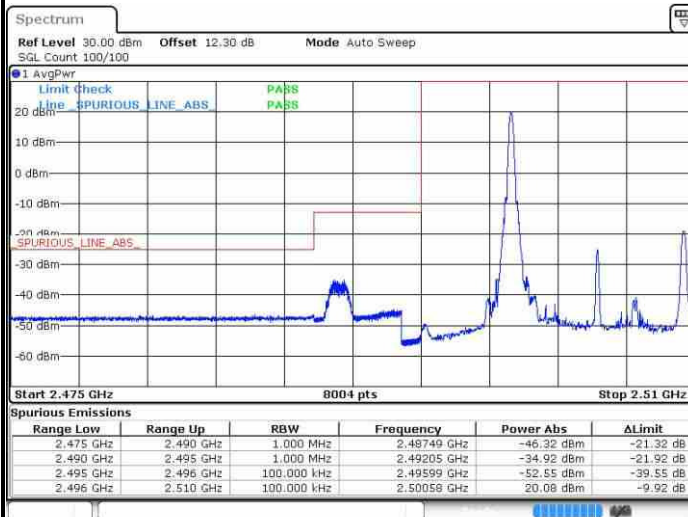


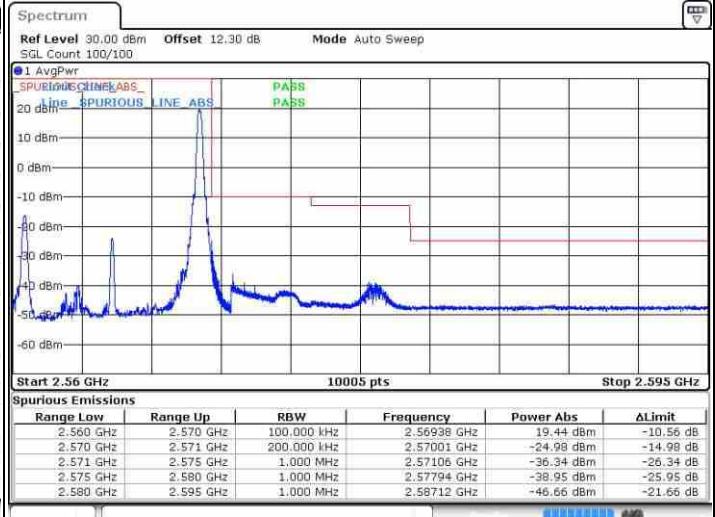


LTE Band 7 / 10MHz / 16QAM

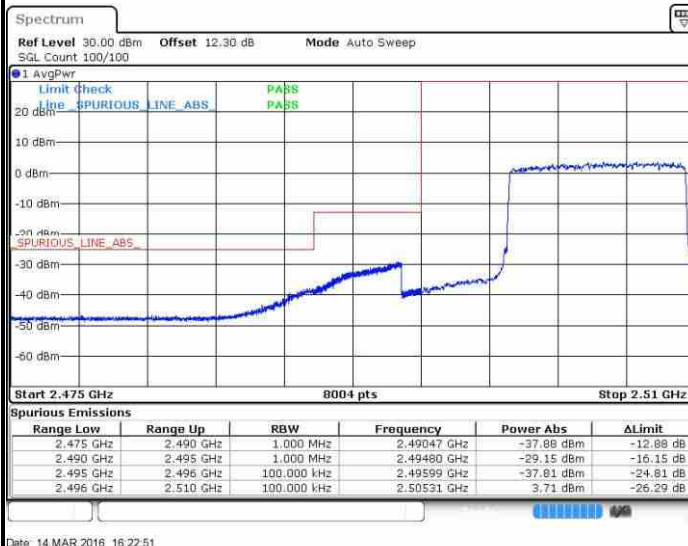
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



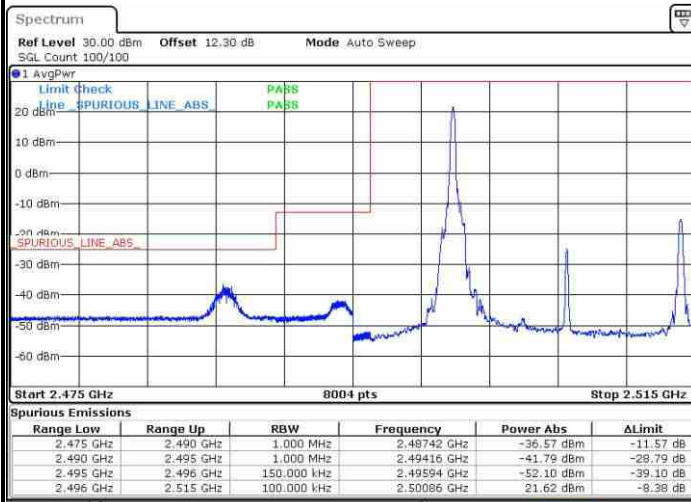
Highest Band Edge / Full RB



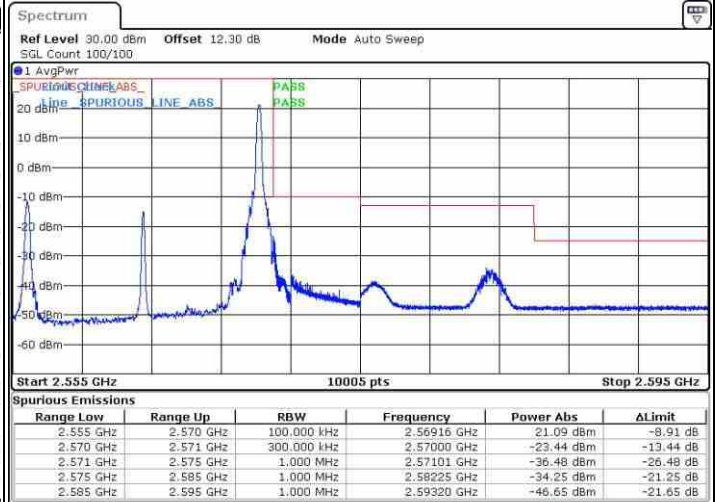


LTE Band 7 / 15MHz / QPSK

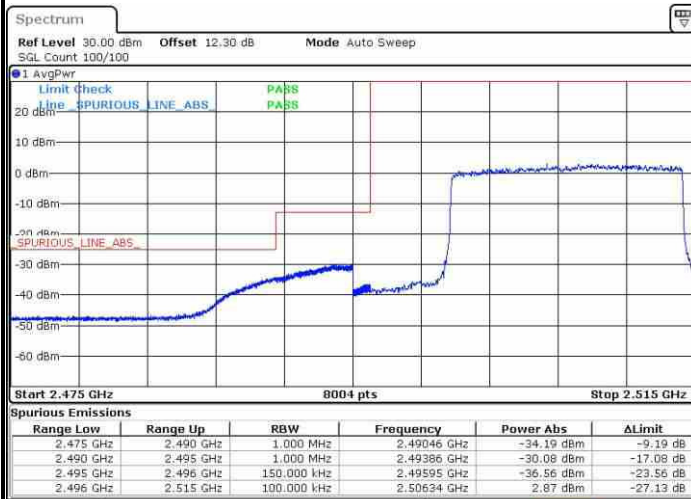
Lowest Band Edge / 1 RB



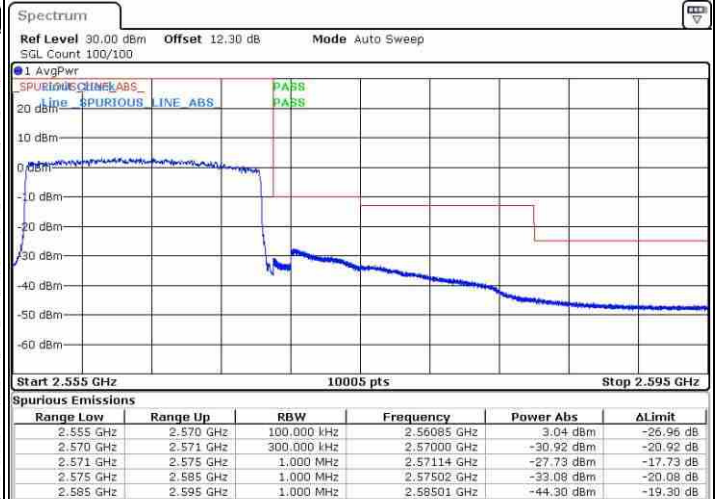
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



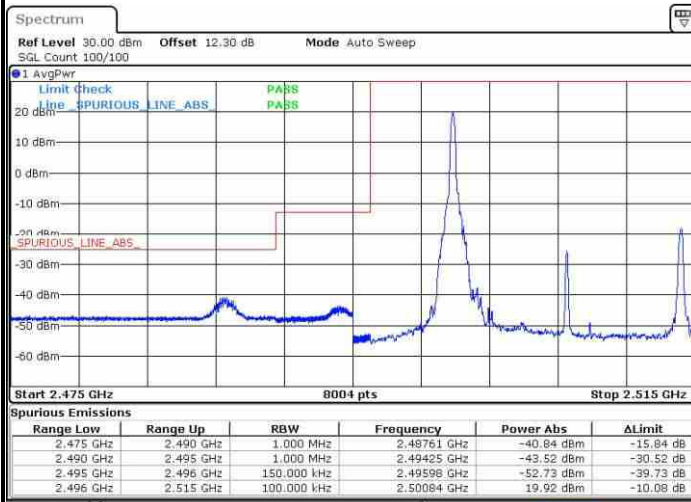
Highest Band Edge / Full RB



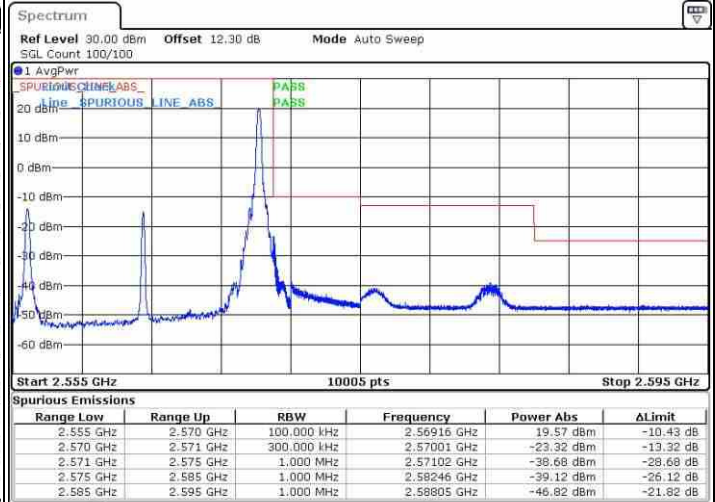


LTE Band 7 / 15MHz / 16QAM

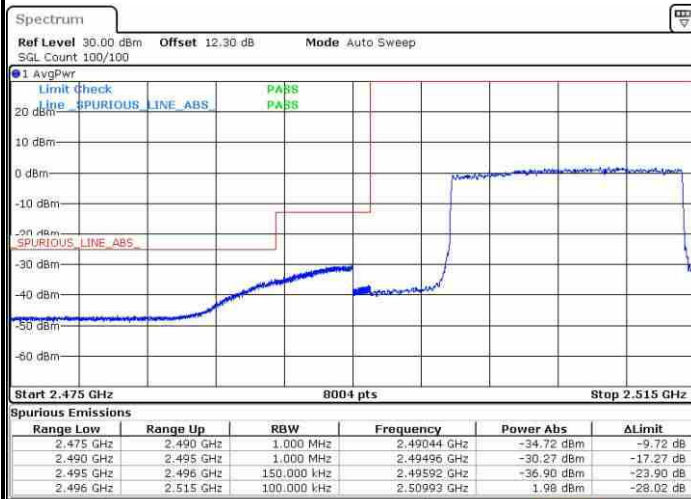
Lowest Band Edge / 1 RB



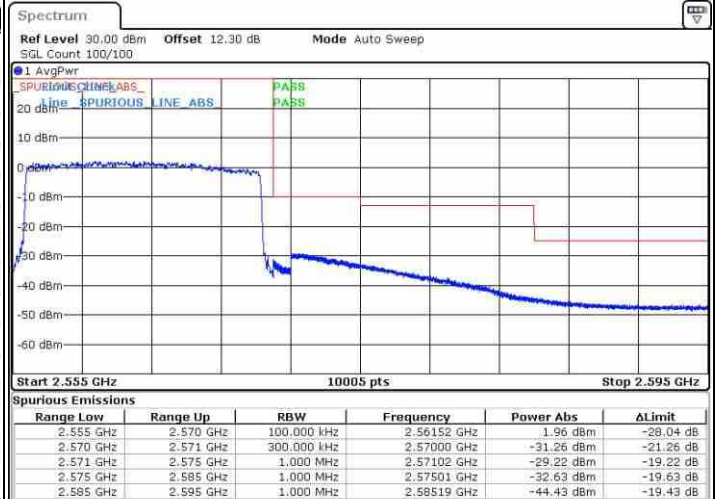
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



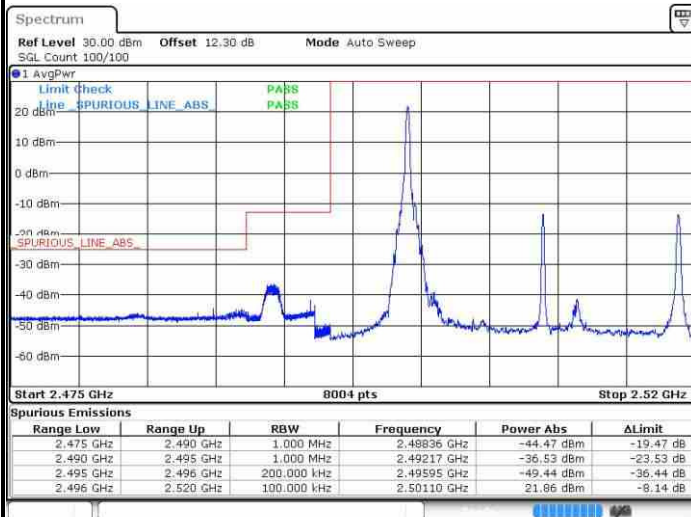
Highest Band Edge / Full RB



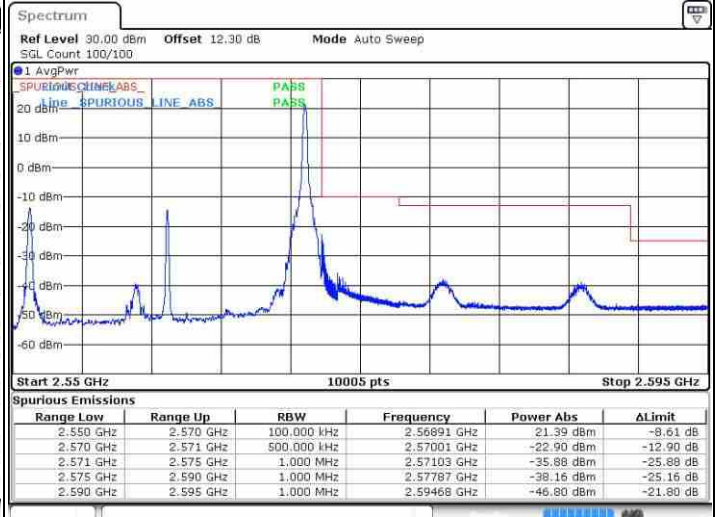


LTE Band 7 / 20MHz / QPSK

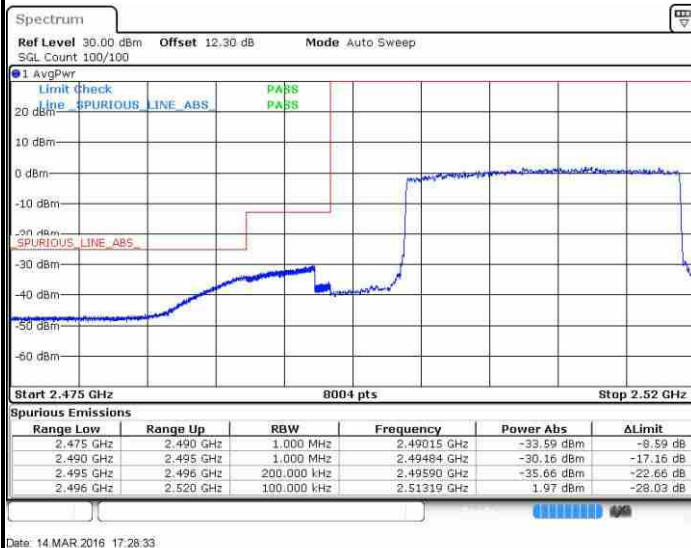
Lowest Band Edge / 1 RB



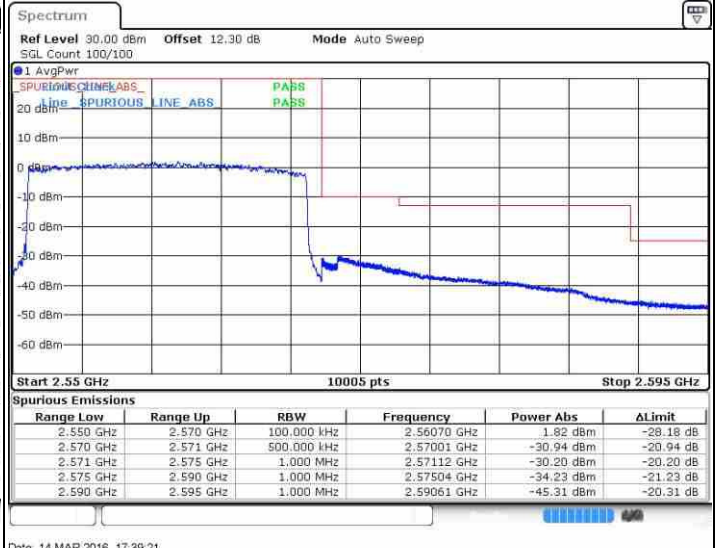
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



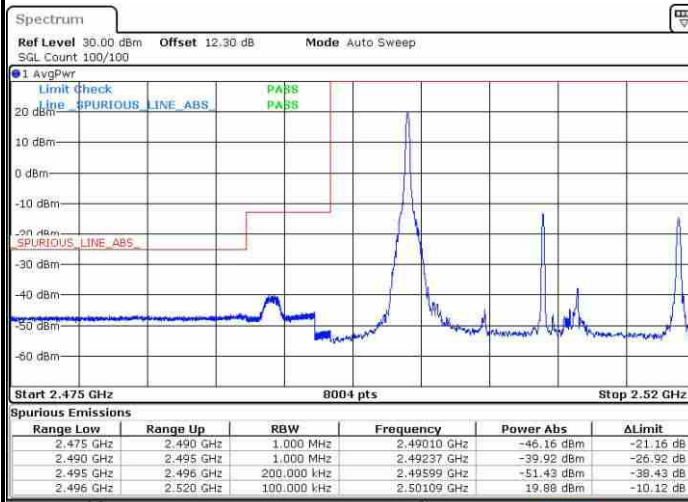
Highest Band Edge / Full RB



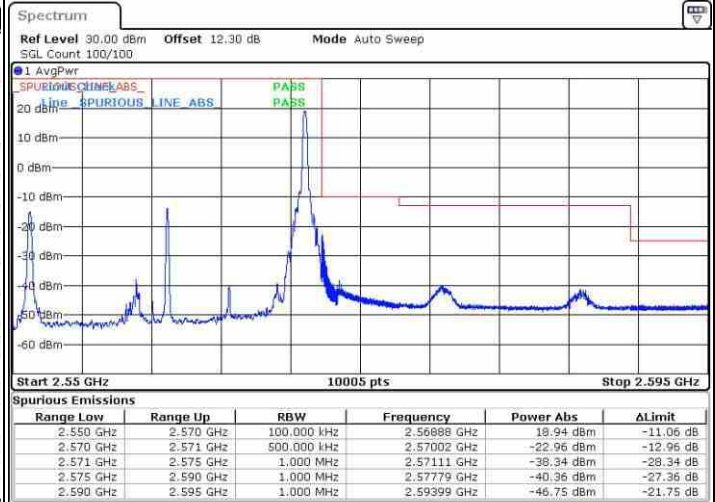


LTE Band 7 / 20MHz / 16QAM

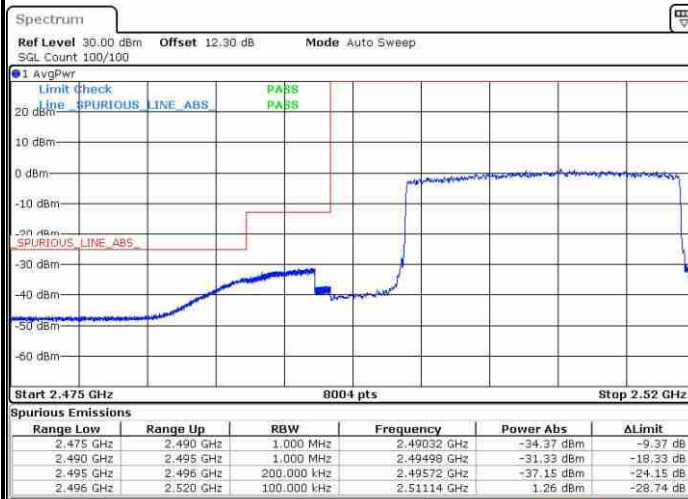
Lowest Band Edge / 1 RB



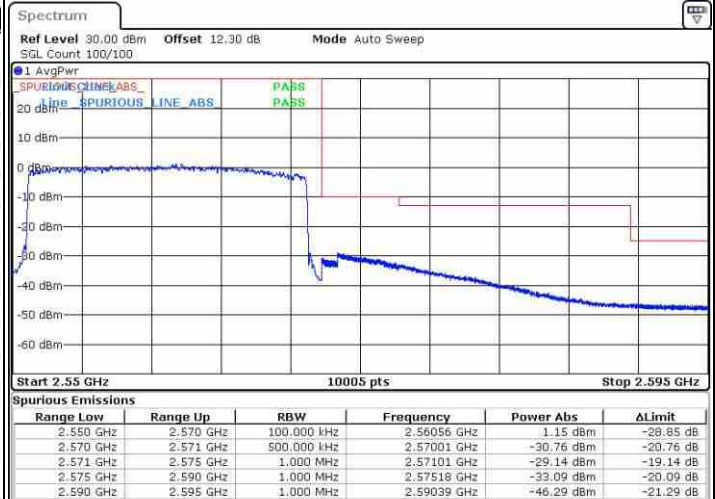
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

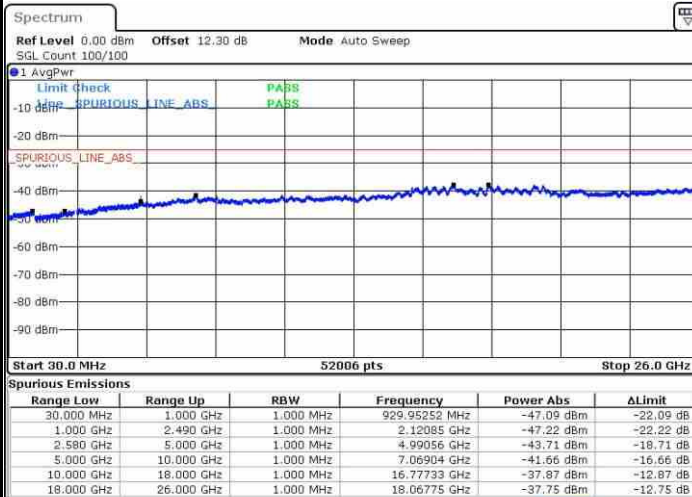




Conducted Spurious Emission

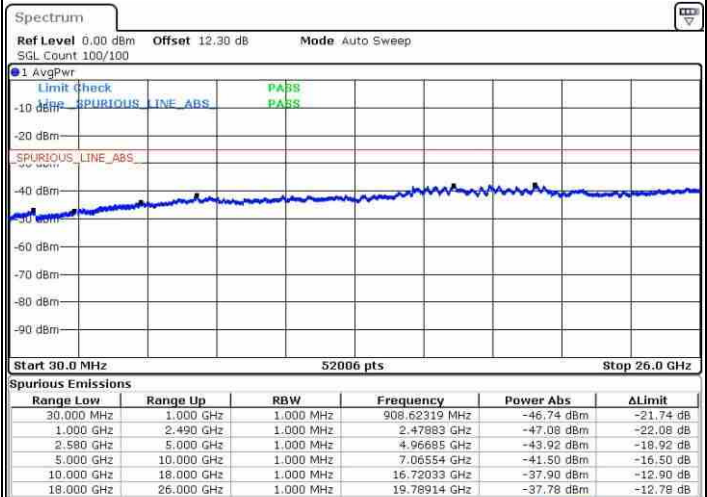
LTE Band 7 / 5MHz

Lowest Channel / QPSK



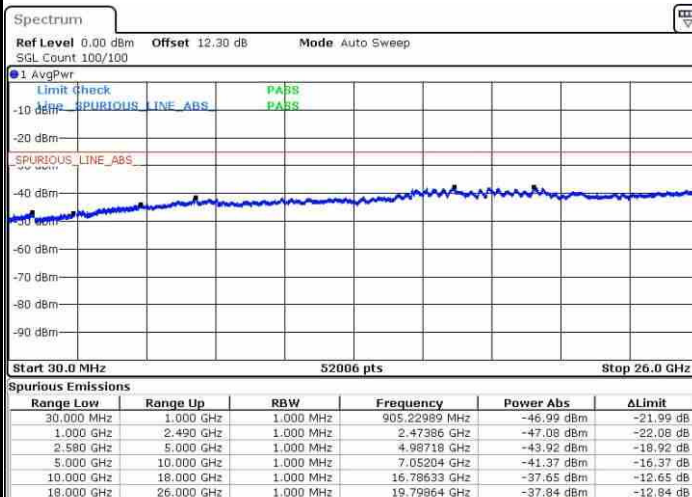
Date: 14.MAR.2016 16:06:55

Lowest Channel / 16QAM



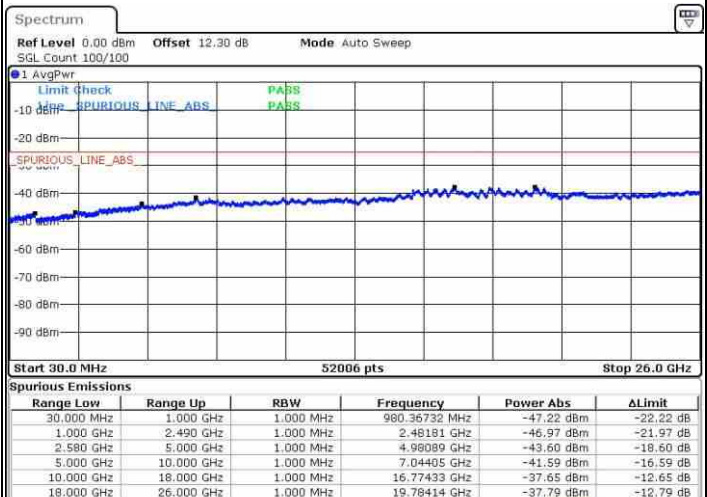
Date: 14.MAR.2016 16:07:49

Middle Channel / QPSK



Date: 14.MAR.2016 16:09:25

Middle Channel / 16QAM

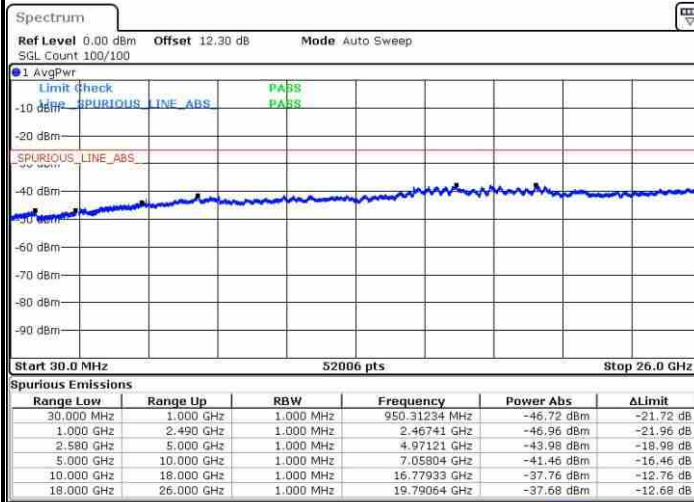


Date: 14.MAR.2016 16:10:19



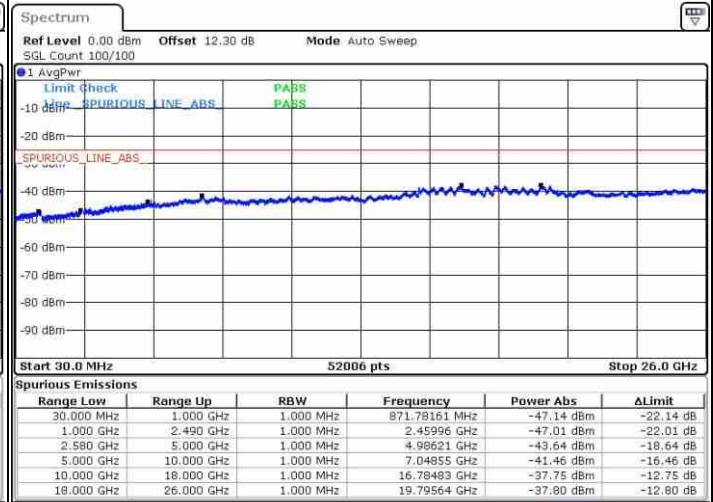
LTE Band 7 / 5MHz

Highest Channel / QPSK



Date: 14.MAR.2016 16:16:35

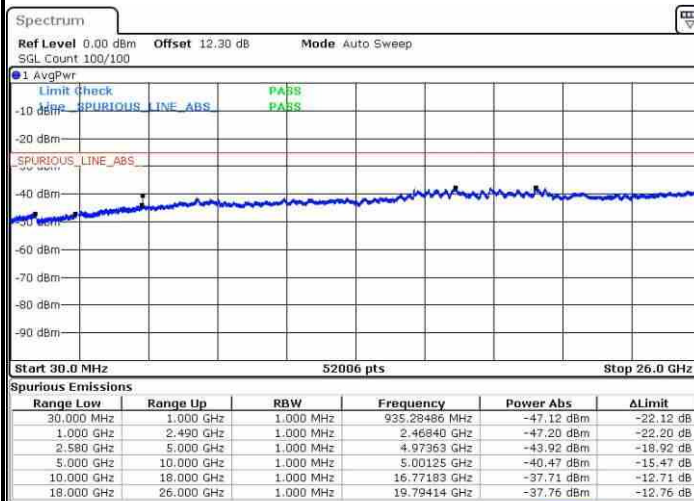
Highest Channel / 16QAM



Date: 14.MAR.2016 16:17:29

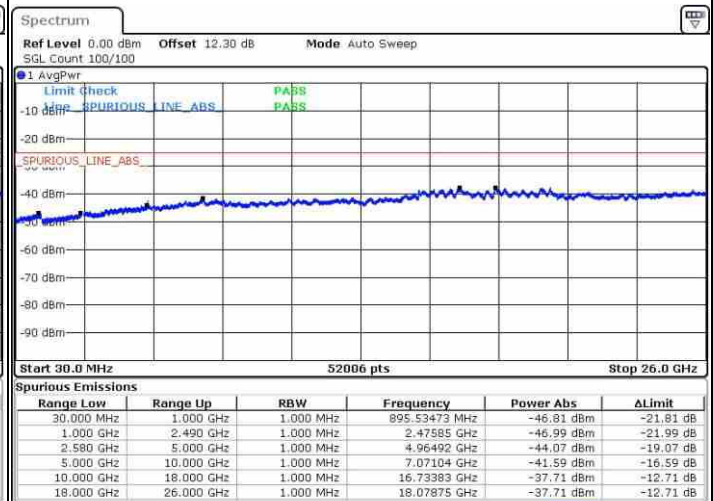
LTE Band 7 / 10MHz

Lowest Channel / QPSK



Date: 14.MAR.2016 16:23:46

Lowest Channel / 16QAM

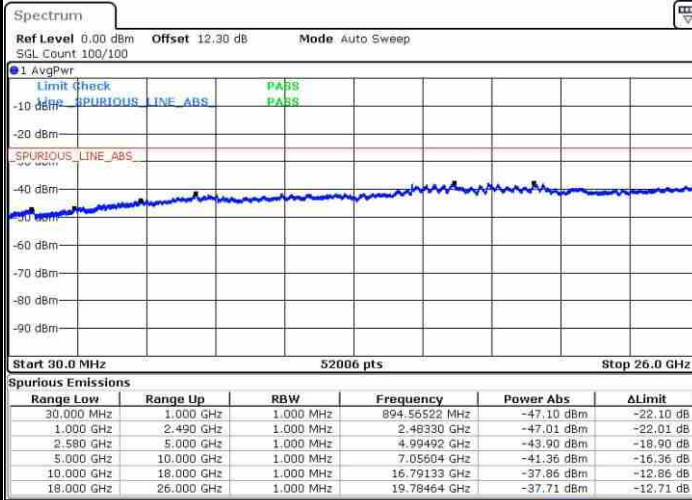


Date: 14.MAR.2016 16:24:40



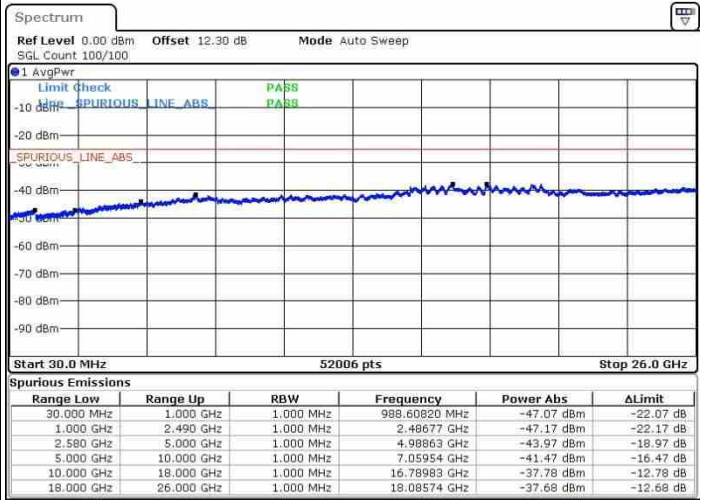
LTE Band 7 / 10MHz

Middle Channel / QPSK



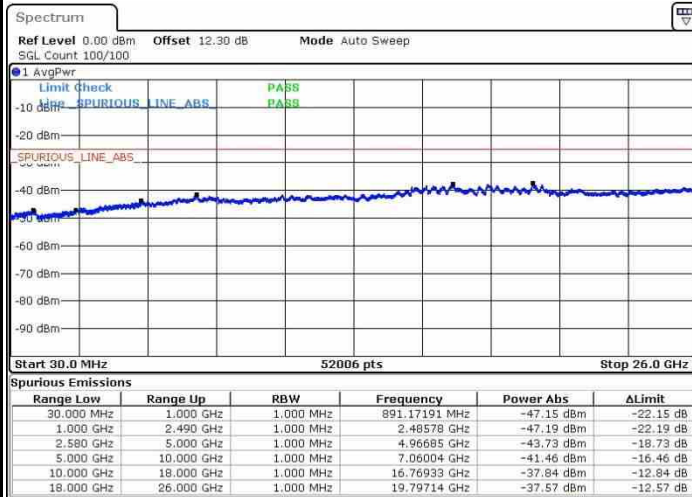
Date: 14 MAR 2016 16:26:16

Middle Channel / 16QAM



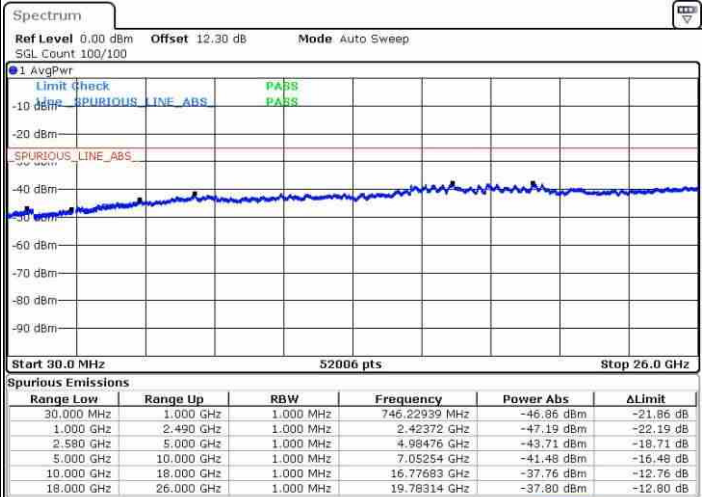
Date: 22 MAR 2016 20:13:31

Highest Channel / QPSK



Date: 22 MAR 2016 20:09:50

Highest Channel / 16QAM

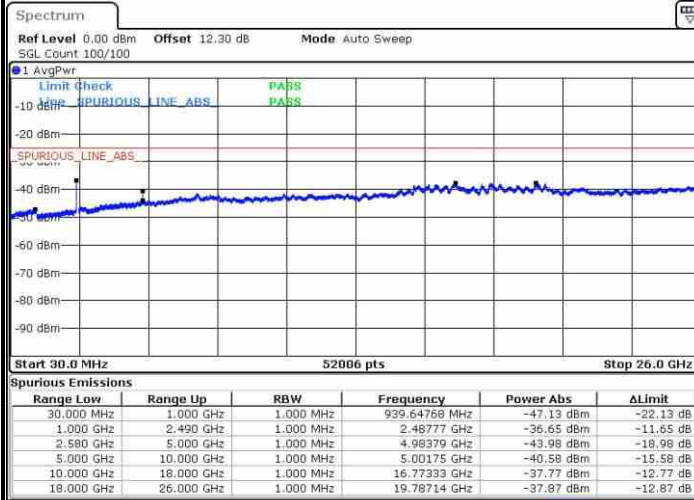


Date: 14 MAR 2016 17:07:34



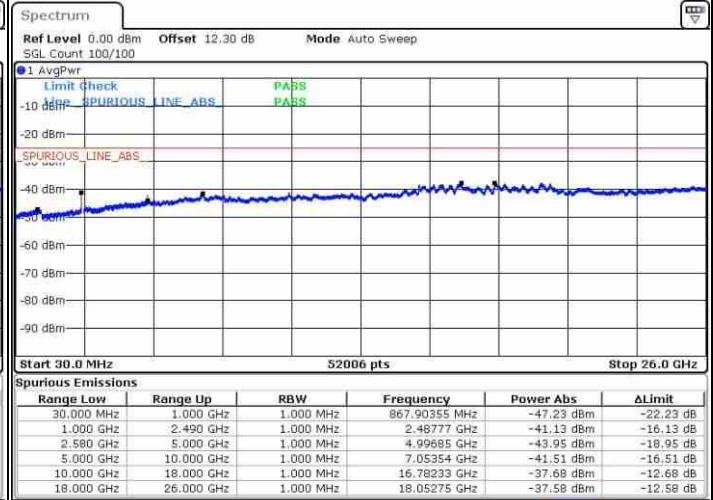
LTE Band 7 / 15MHz

Lowest Channel / QPSK



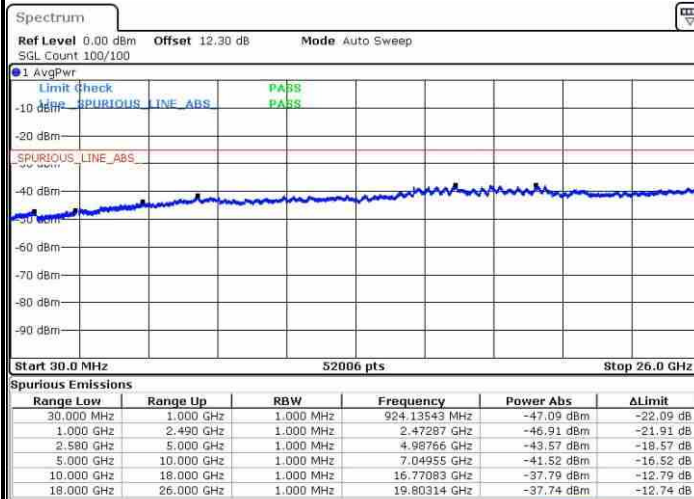
Date: 14 MAR 2016 17:13:50

Lowest Channel / 16QAM



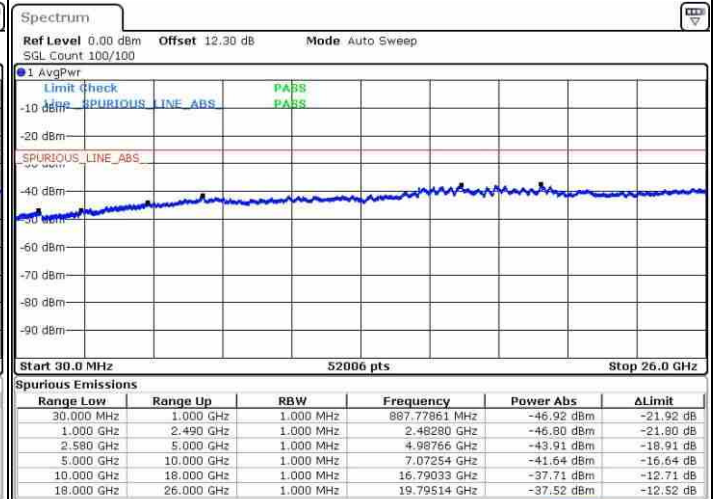
Date: 14 MAR 2016 17:14:43

Middle Channel / QPSK



Date: 14 MAR 2016 17:16:19

Middle Channel / 16QAM

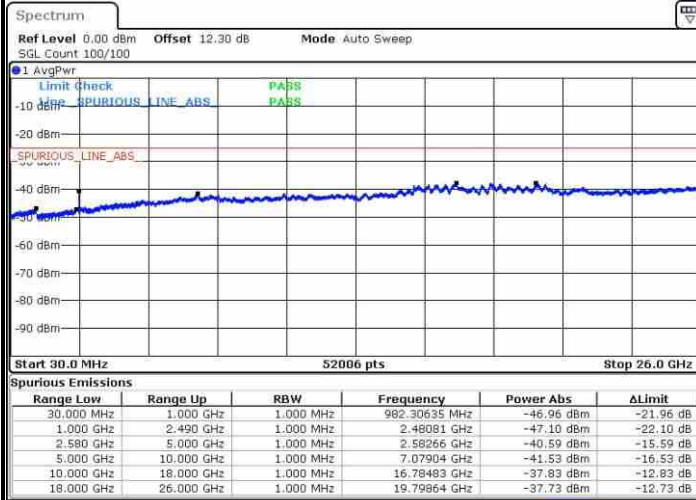


Date: 14 MAR 2016 17:17:13



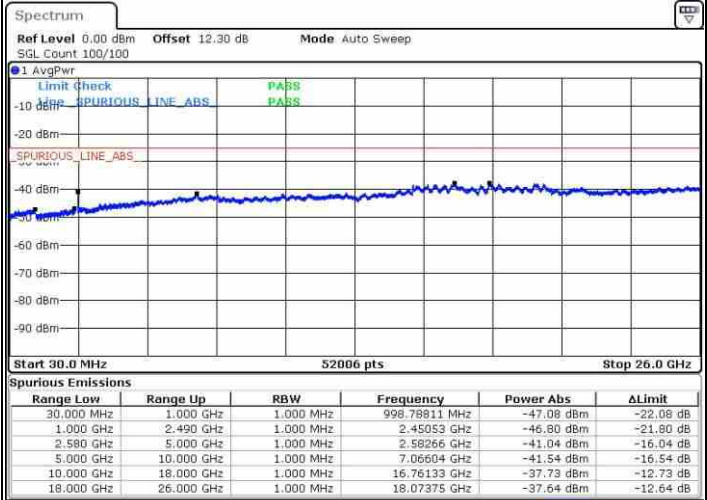
LTE Band7 / 15MHz

Highest Channel / QPSK



Date: 14.MAR.2016 17:23:28

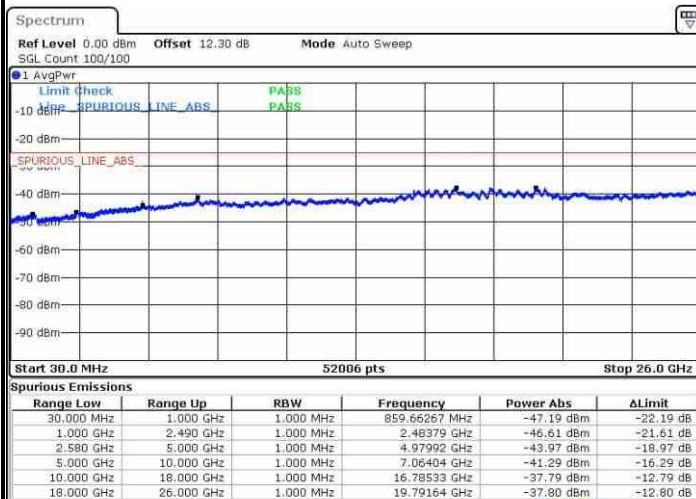
Highest Channel / 16QAM



Date: 14.MAR.2016 17:24:22

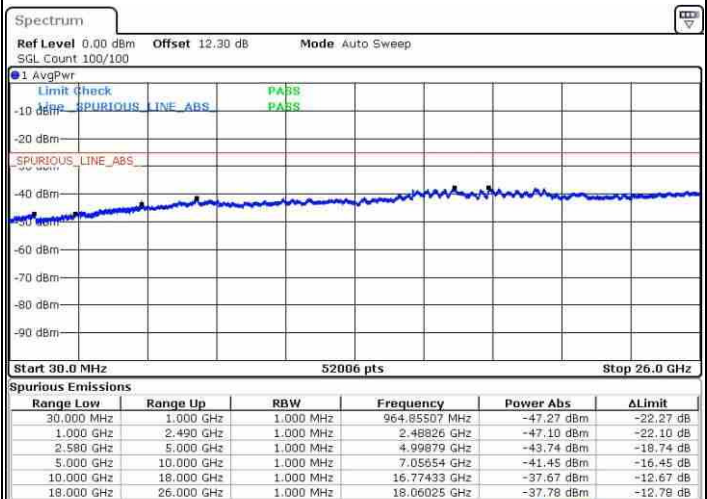
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 14.MAR.2016 17:30:37

Lowest Channel / 16QAM

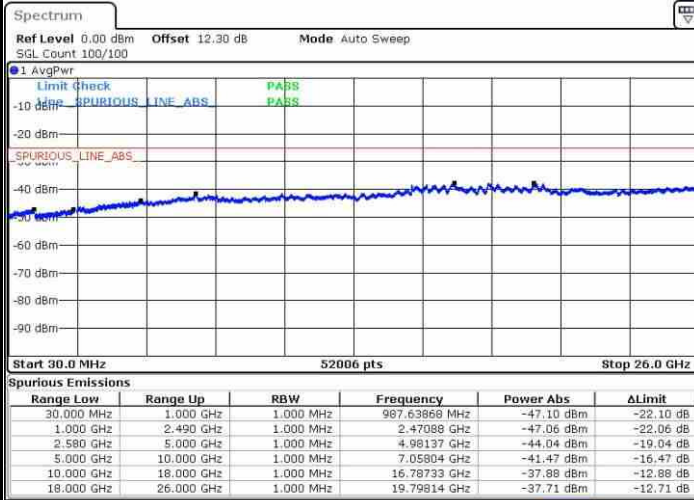


Date: 14.MAR.2016 17:31:31



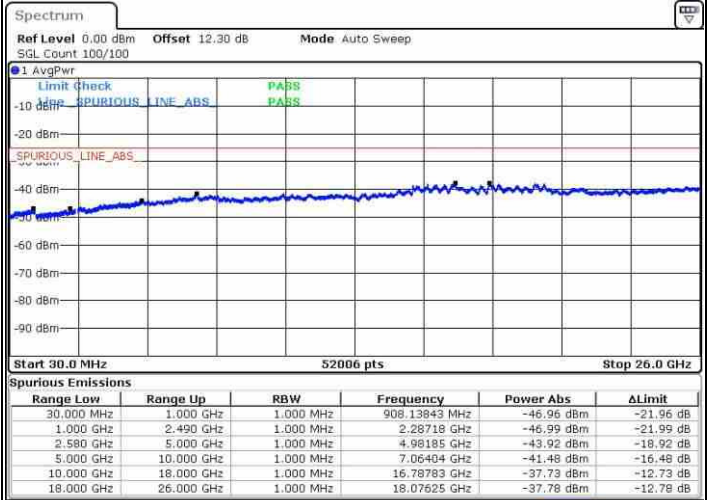
LTE Band 7 / 20MHz

Middle Channel / QPSK



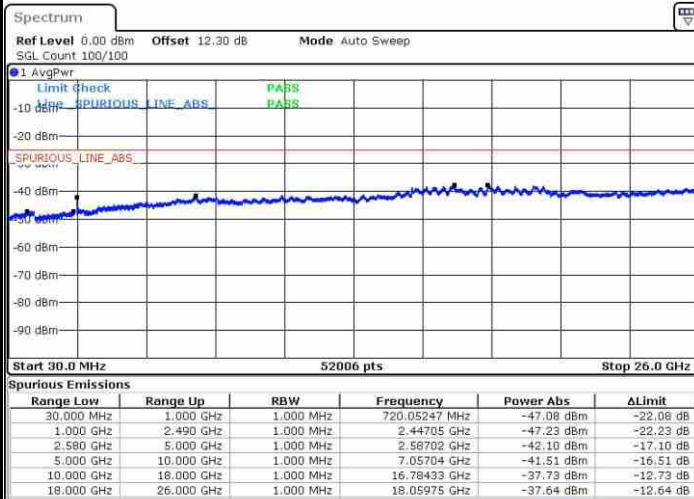
Date: 14.MAR.2016 17:33:06

Middle Channel / 16QAM



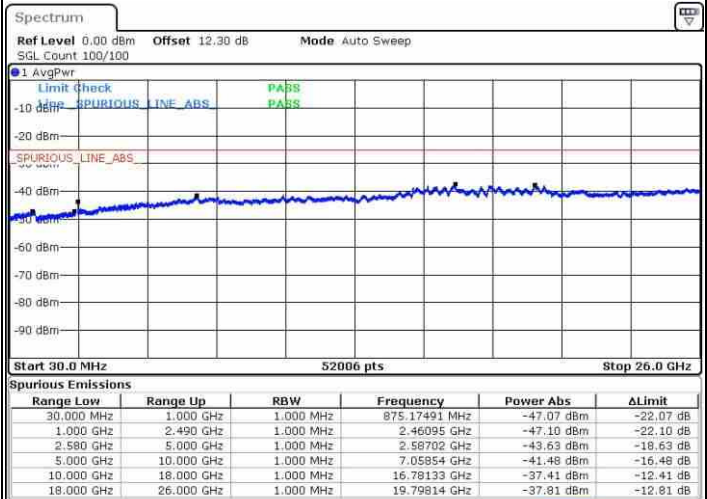
Date: 14.MAR.2016 17:34:00

Highest Channel / QPSK



Date: 14.MAR.2016 17:40:15

Highest Channel / 16QAM



Date: 14.MAR.2016 17:41:09

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	0.0002	PASS
40	Normal Voltage	0.0089	
30	Normal Voltage	0.0088	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0000	
0	Normal Voltage	0.0004	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0090	
20	Maximum Voltage	0.0004	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0005	

Note:

1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.2 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



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	4.55	4.87	5.54	PASS
Middle CH	4.03	4.64	4.87	5.59	
Highest CH	3.88	4.67	4.87	5.65	

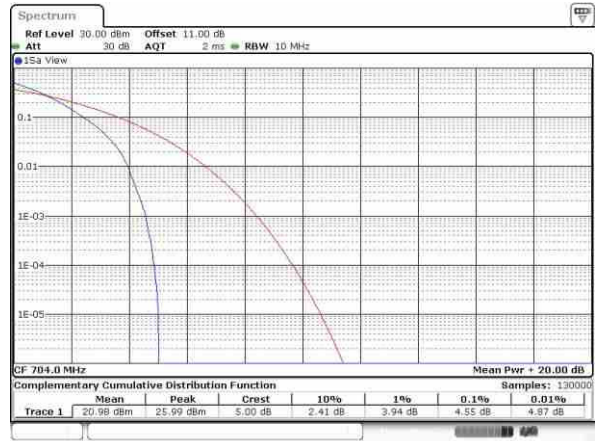


LTE Band 12 / 10MHz / QPSK

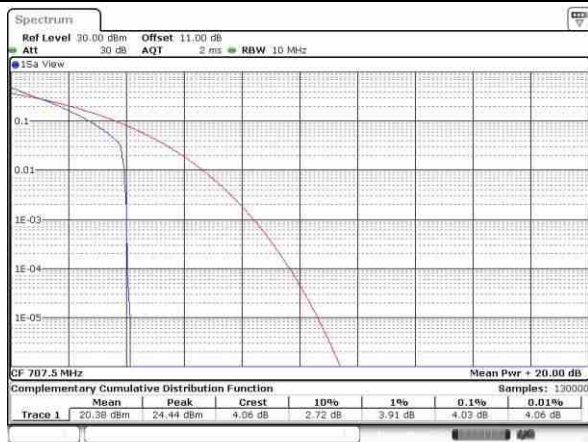
Lowest Channel / 1RB



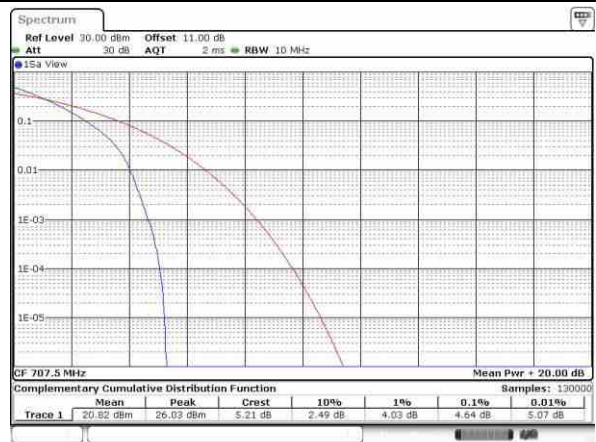
Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB





LTE Band 12 / 10MHz / 16QAM

Lowest Channel / 1RB



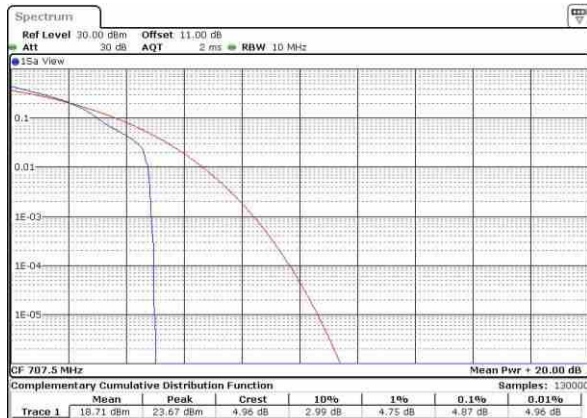
Date: 13 MAR 2016 13:32:05

Lowest Channel / Full RB



Date: 13 MAR 2016 13:31:48

Middle Channel / 1RB



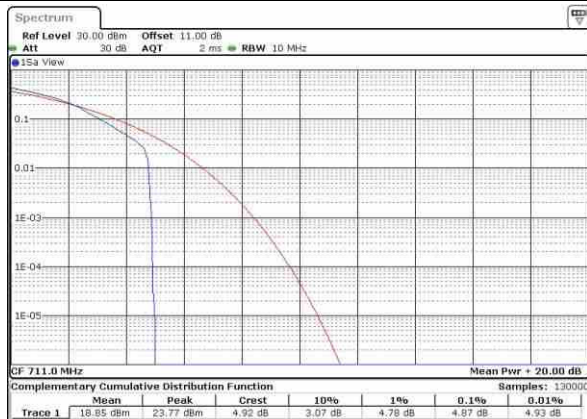
Date: 13 MAR 2016 13:32:47

Middle Channel / Full RB



Date: 13 MAR 2016 13:31:01

Highest Channel / 1RB



Date: 13 MAR 2016 13:33:46

Highest Channel / Full RB



Date: 13 MAR 2016 13:33:27

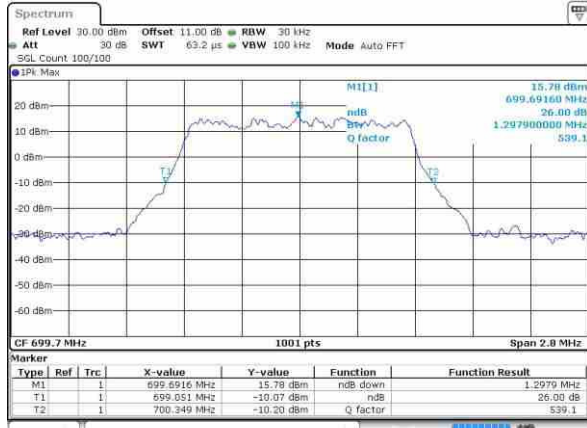
**26dB Bandwidth**

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	1.3	1.27	3	3.02	4.92	4.91	9.75	9.79	-	-	-	-
Middle CH	1.26	1.28	3.03	3	4.93	4.91	9.97	9.81	-	-	-	-
Highest CH	1.27	1.31	2.99	2.97	4.9	4.95	9.63	9.75	-	-	-	-



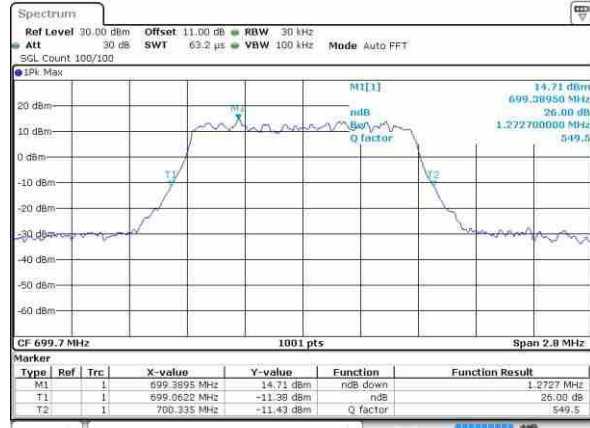
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



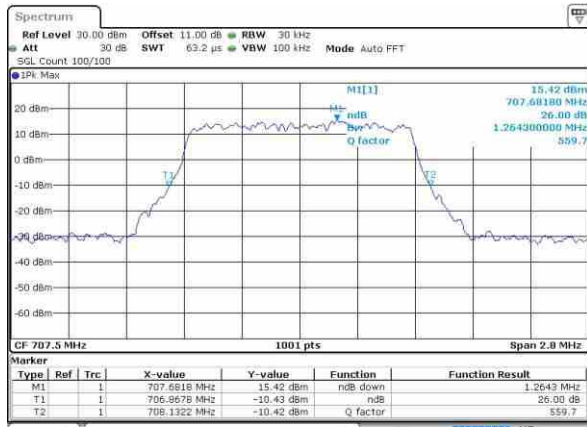
Date: 13 MAR 2016 13:38:45

Lowest Channel / 1.4MHz / 16QAM



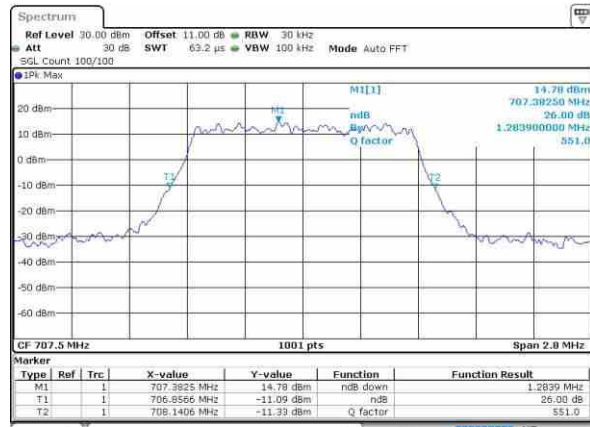
Date: 13 MAR 2016 13:38:34

Middle Channel / 1.4MHz / QPSK



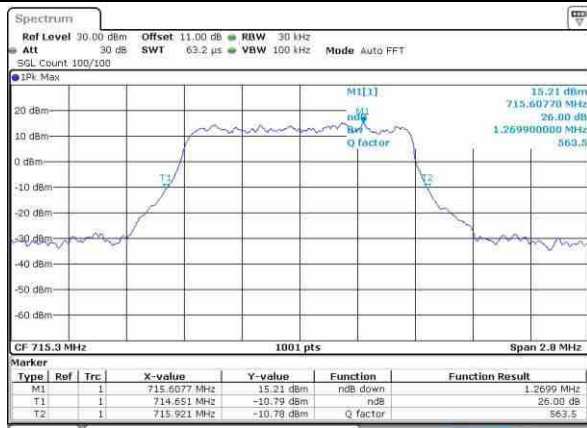
Date: 13 MAR 2016 13:48:14

Middle Channel / 1.4MHz / 16QAM



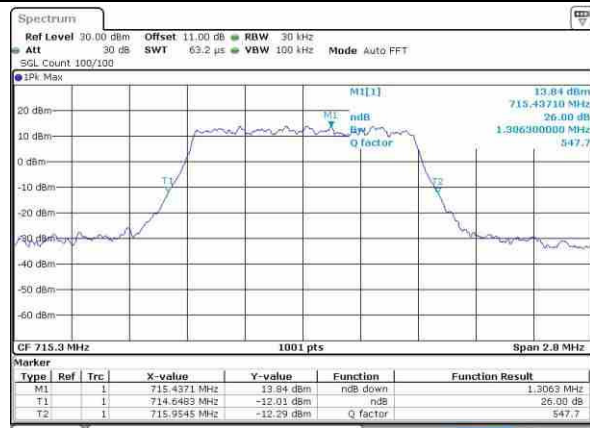
Date: 13 MAR 2016 13:48:25

Highest Channel / 1.4MHz / QPSK



Date: 13 MAR 2016 13:51:56

Highest Channel / 1.4MHz / 16QAM

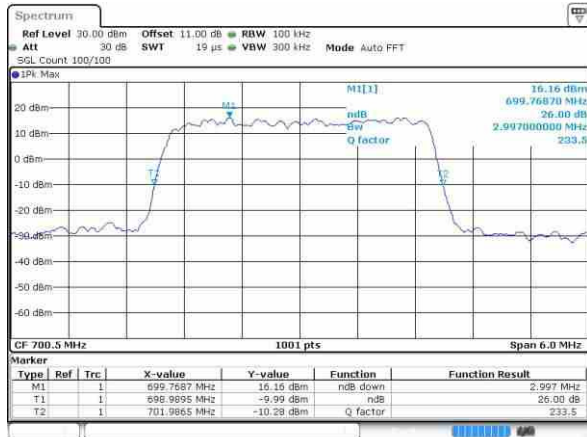


Date: 13 MAR 2016 13:51:45

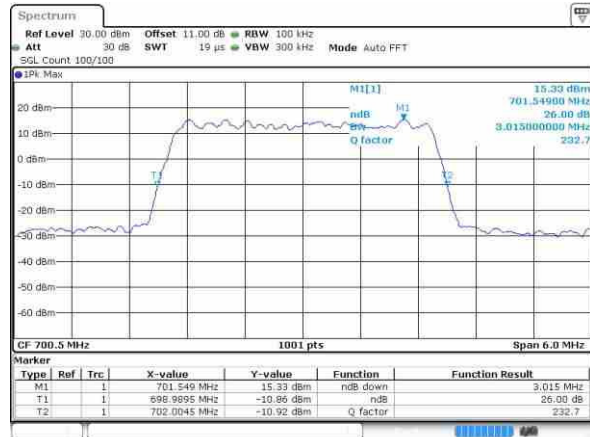


LTE Band 12

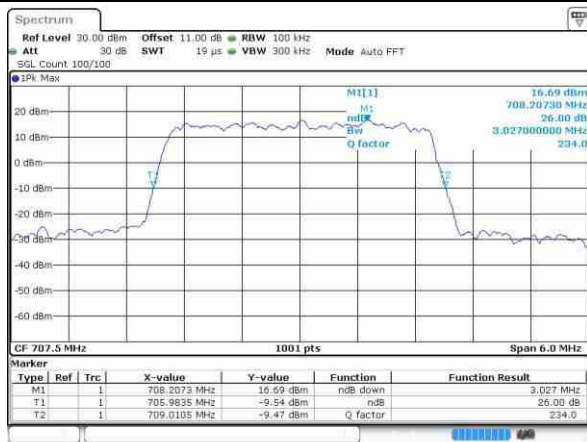
Lowest Channel / 3MHz / QPSK



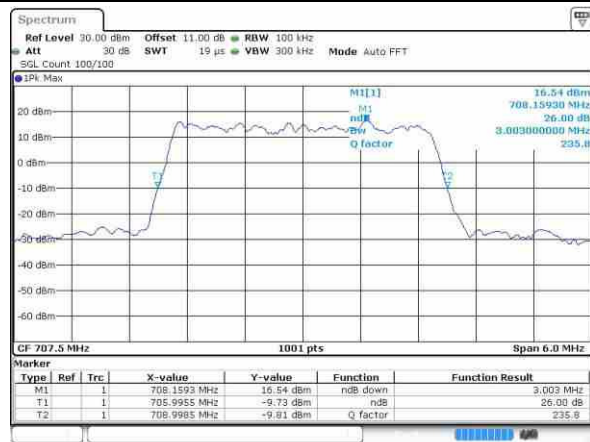
Lowest Channel / 3MHz / 16QAM



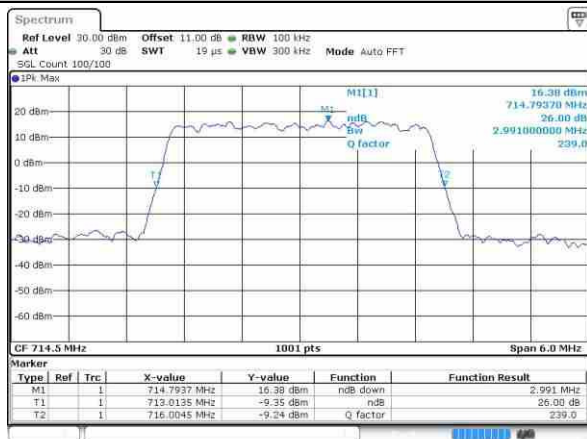
Middle Channel / 3MHz / QPSK



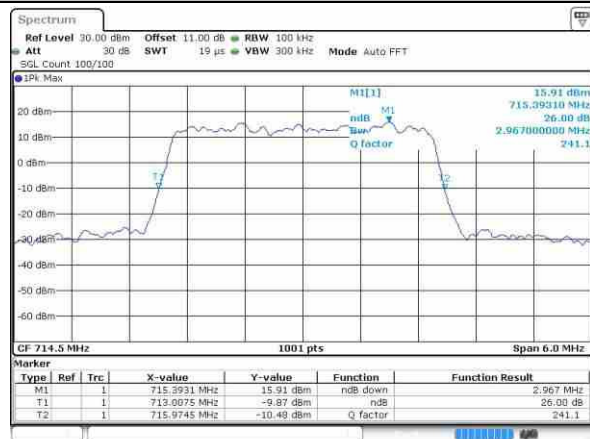
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



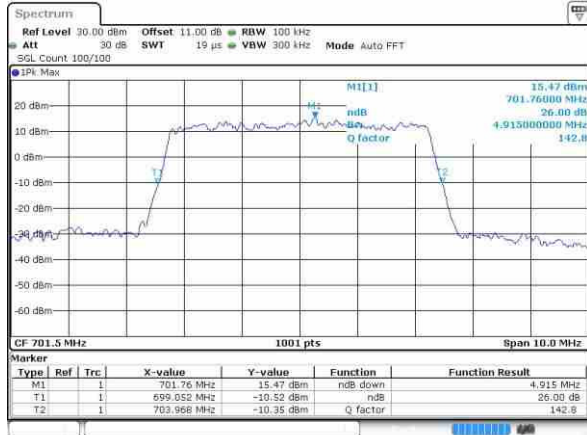
Highest Channel / 3MHz / 16QAM



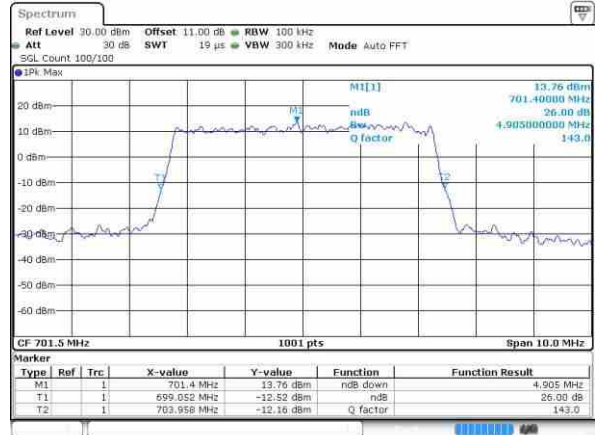


LTE Band 12

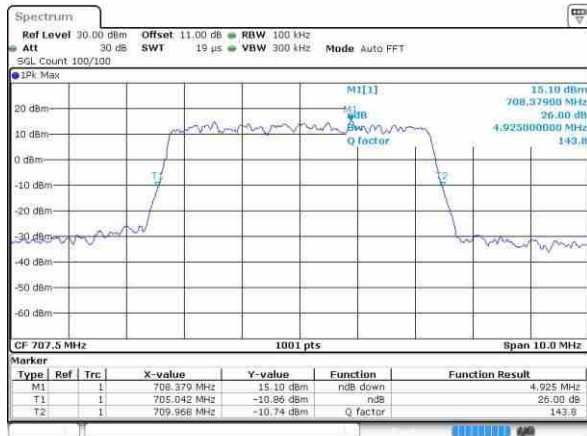
Lowest Channel / 5MHz / QPSK



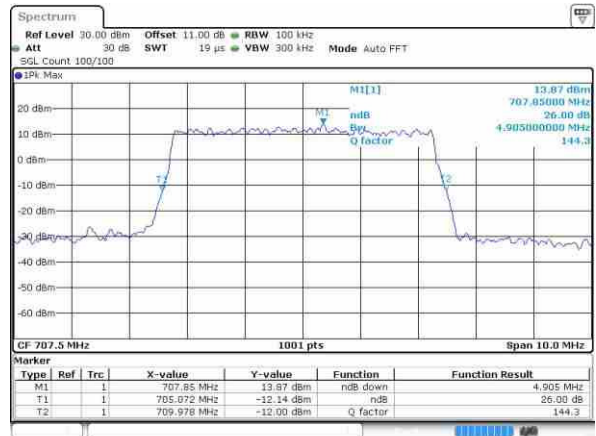
Lowest Channel / 5MHz / 16QAM



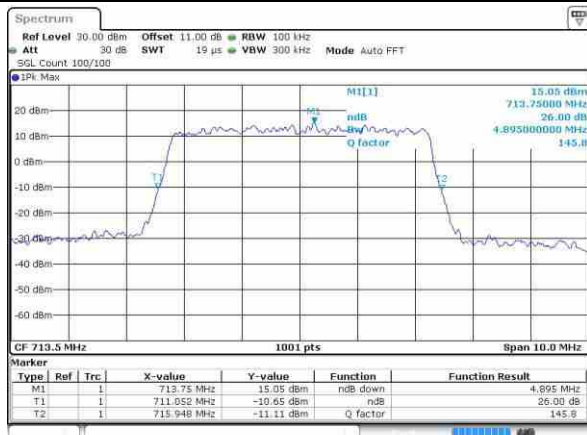
Middle Channel / 5MHz / QPSK



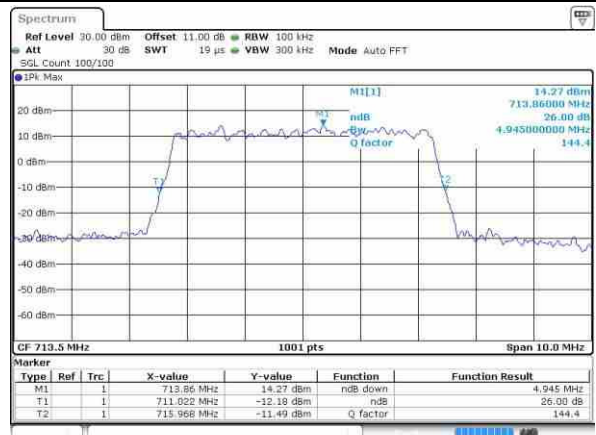
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



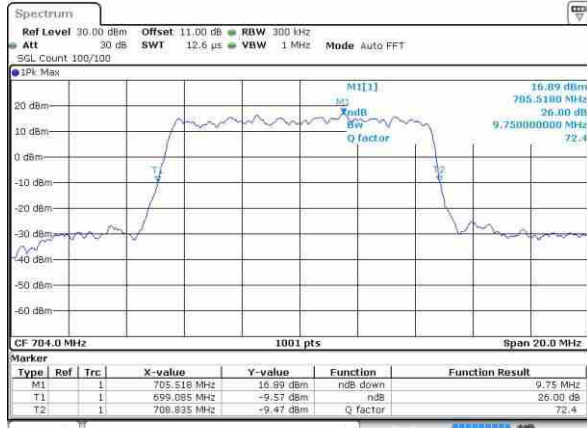
Highest Channel / 5MHz / 16QAM



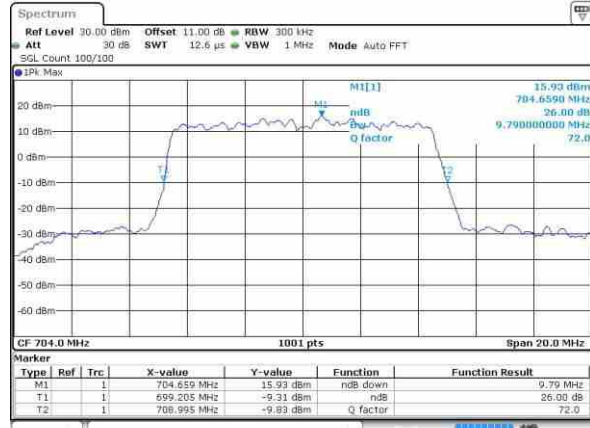


LTE Band 12

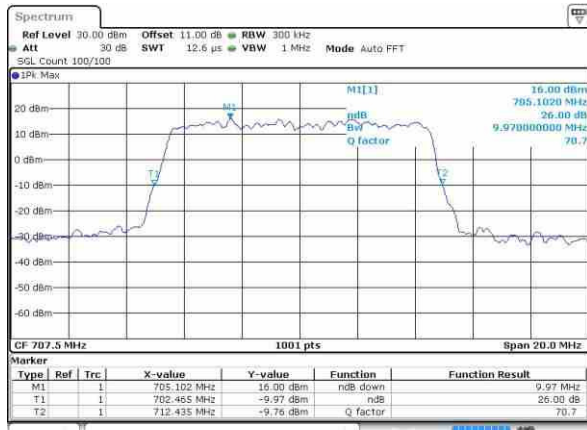
Lowest Channel / 10MHz / QPSK



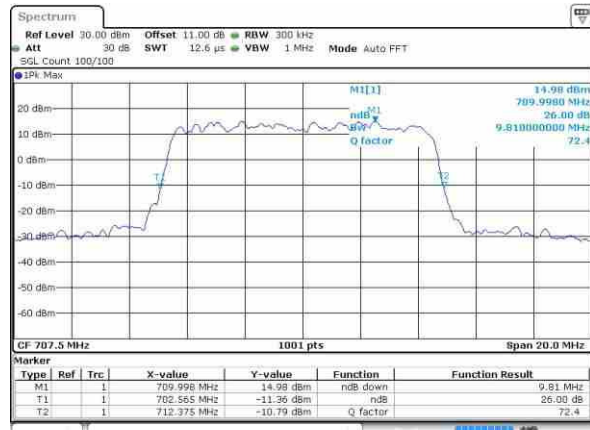
Lowest Channel / 10MHz / 16QAM



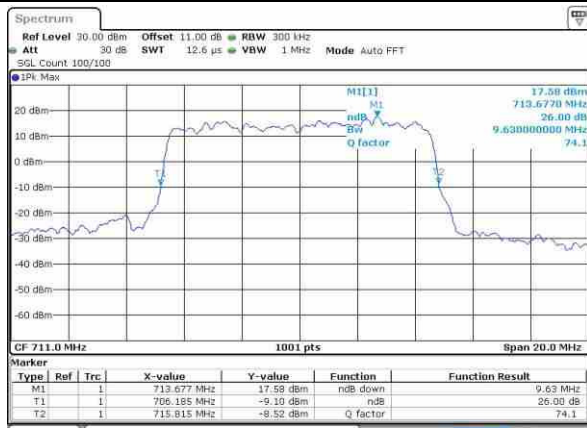
Middle Channel / 10MHz / QPSK



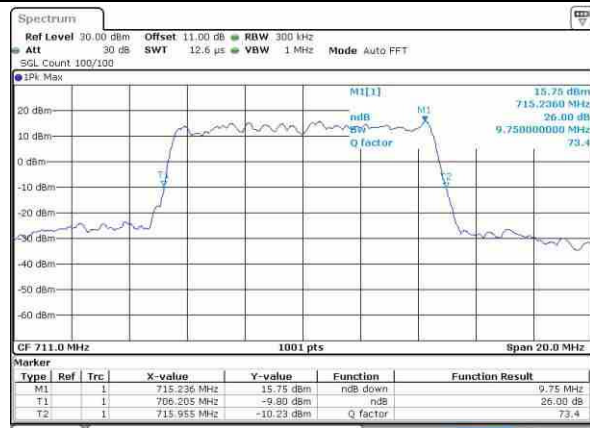
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM



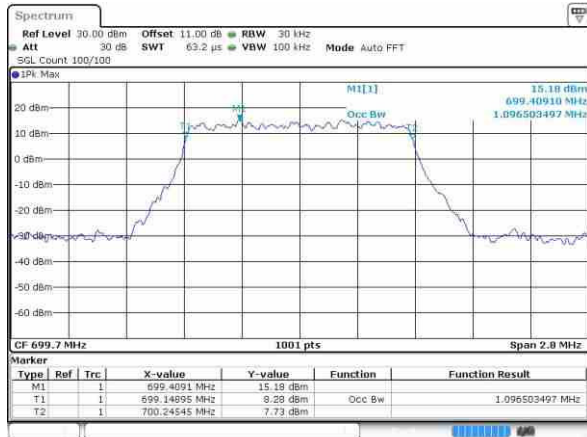
**Occupied Bandwidth**

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	1.1	1.1	2.71	2.74	4.49	4.48	9.01	9.03	-	-	-	-
Middle CH	1.09	1.09	2.72	2.69	4.48	4.49	9.05	8.99	-	-	-	-
Highest CH	1.11	1.09	2.72	2.7	4.49	4.47	9.01	9.07	-	-	-	-

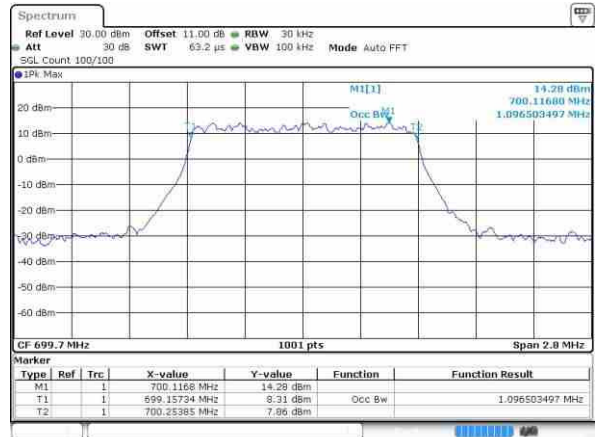


LTE Band 12

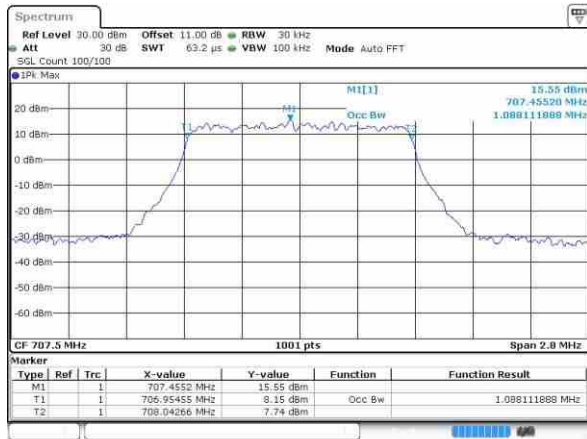
Lowest Channel / 1.4MHz / QPSK



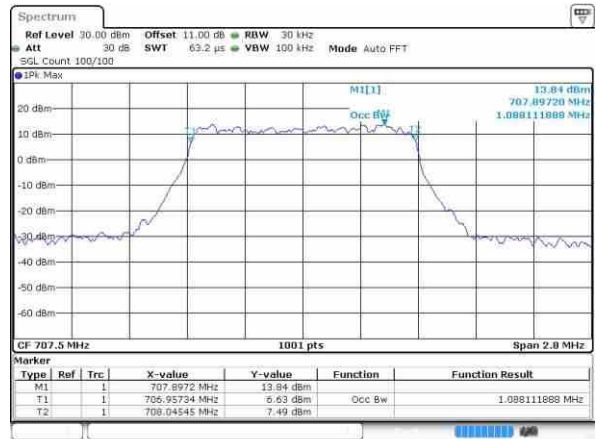
Lowest Channel / 1.4MHz / 16QAM



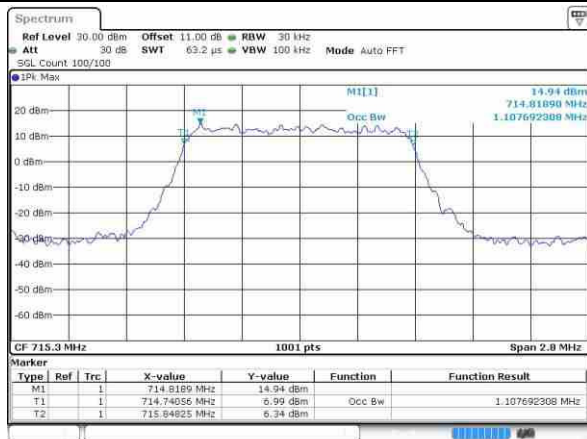
Middle Channel / 1.4MHz / QPSK



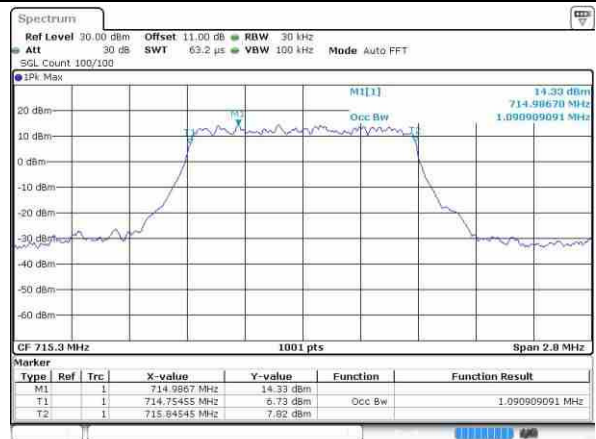
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



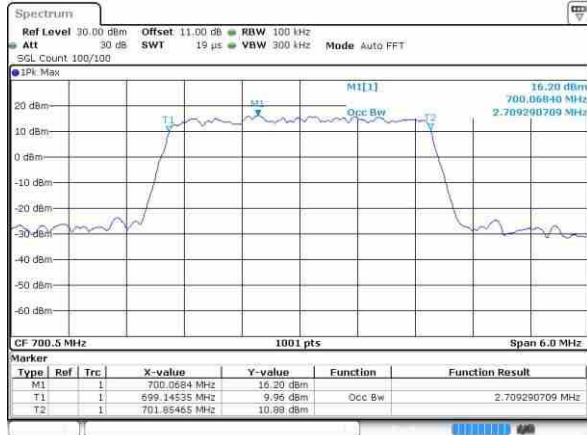
Highest Channel / 1.4MHz / 16QAM





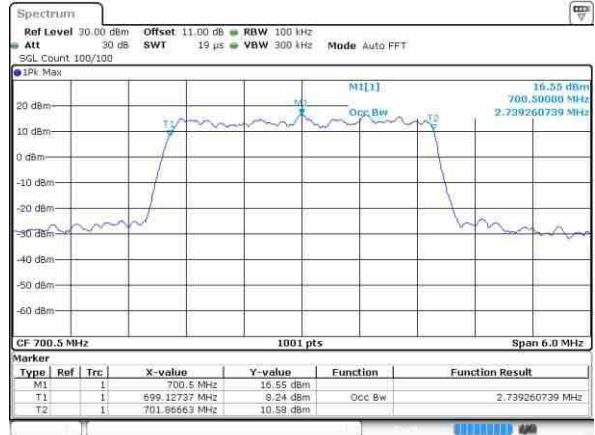
LTE Band 12

Lowest Channel / 3MHz / QPSK



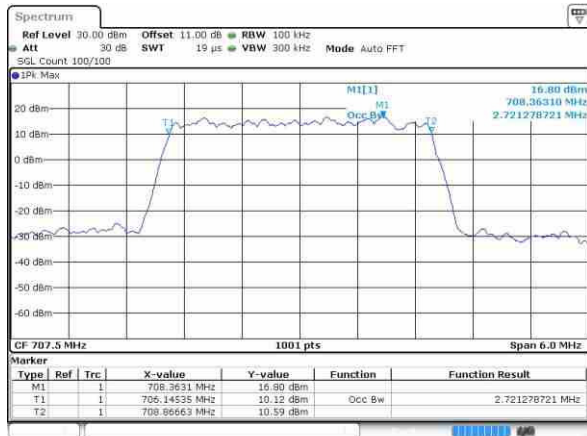
Date: 13 MAR 2016 10:47:43

Lowest Channel / 3MHz / 16QAM



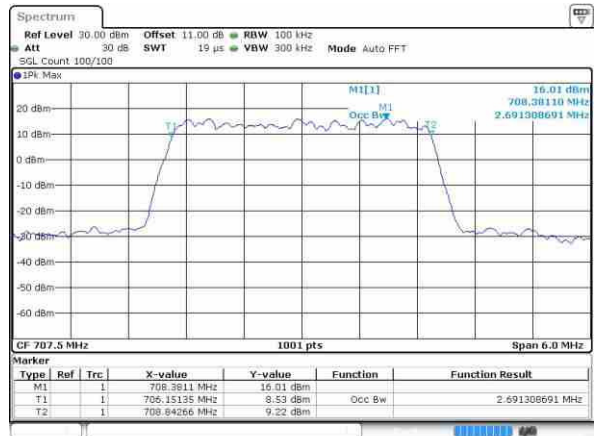
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Middle Channel / 3MHz / QPSK



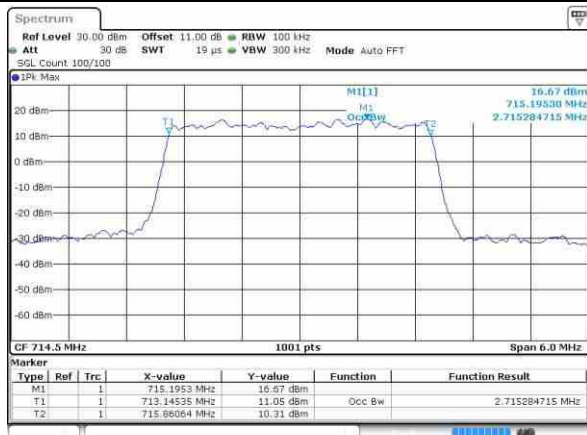
Date: 13 MAR 2016 10:58:33

Middle Channel / 3MHz / 16QAM



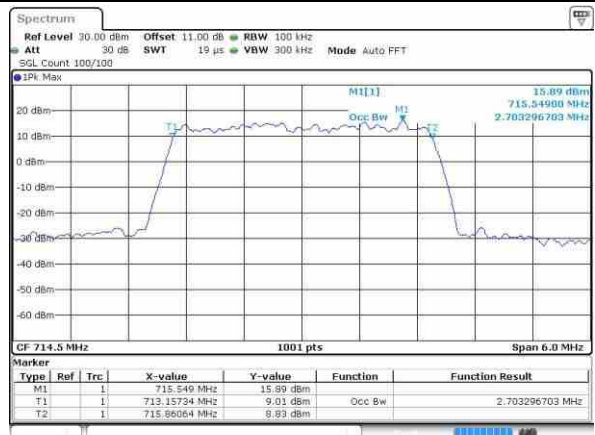
Date: 13 MAR 2016 10:58:23

Highest Channel / 3MHz / QPSK



Date: 13 MAR 2016 11:00:54

Highest Channel / 3MHz / 16QAM

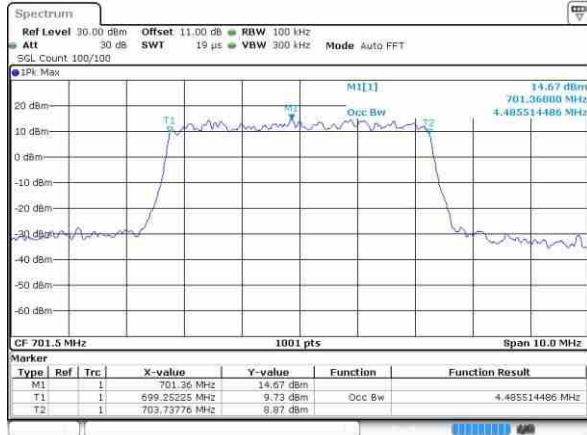


Date: 13 MAR 2016 11:01:04



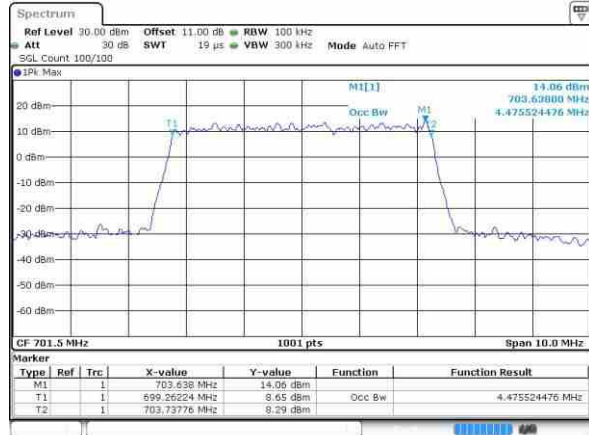
LTE Band 12

Lowest Channel / 5MHz / QPSK



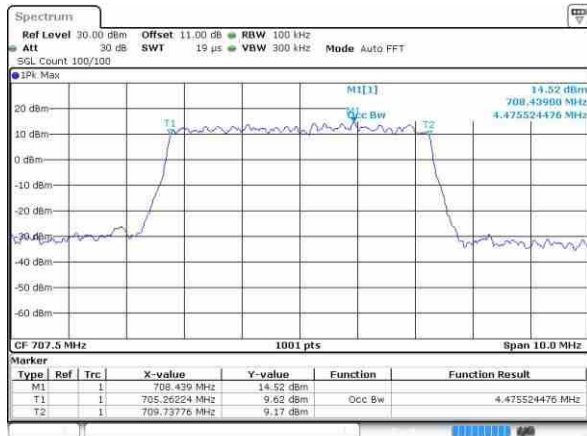
Date: 13 MAR 2016 11:11:33

Lowest Channel / 5MHz / 16QAM



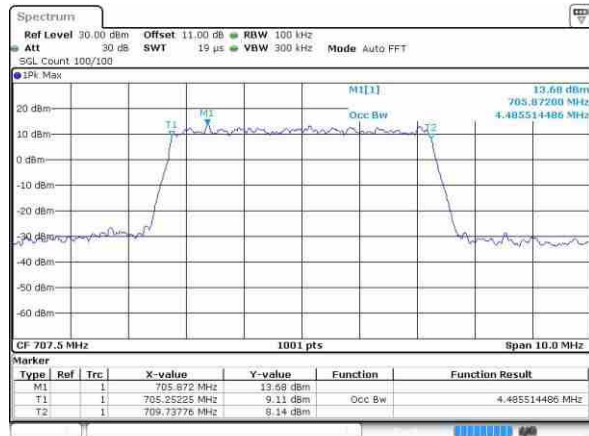
Date: 13 MAR 2016 11:11:44

Middle Channel / 5MHz / QPSK



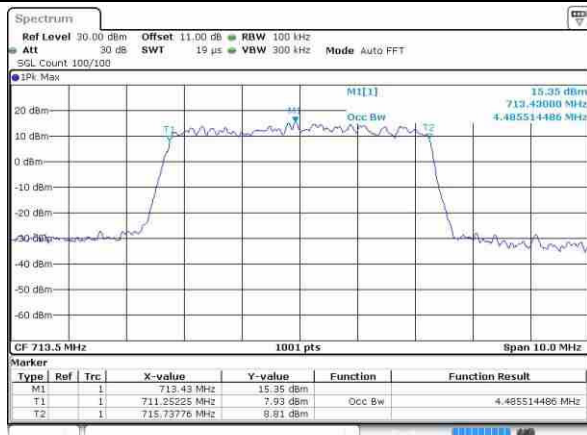
Date: 13 MAR 2016 11:22:24

Middle Channel / 5MHz / 16QAM



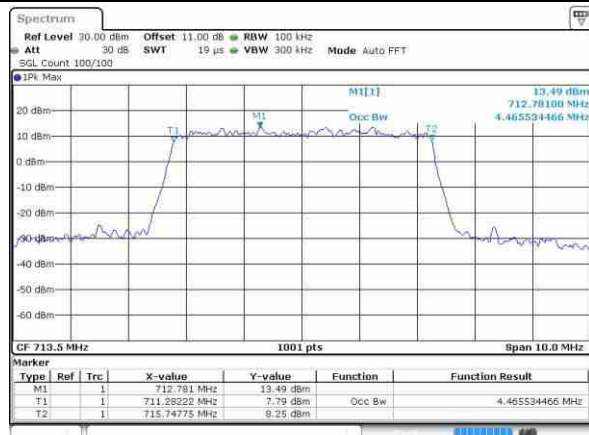
Date: 13 MAR 2016 11:22:14

Highest Channel / 5MHz / QPSK



Date: 13 MAR 2016 11:24:45

Highest Channel / 5MHz / 16QAM

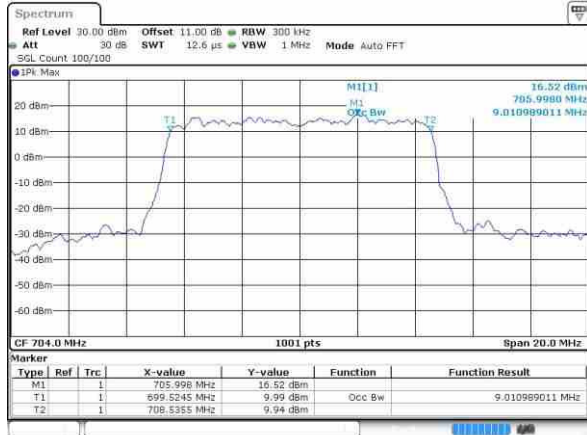


Date: 13 MAR 2016 11:24:55

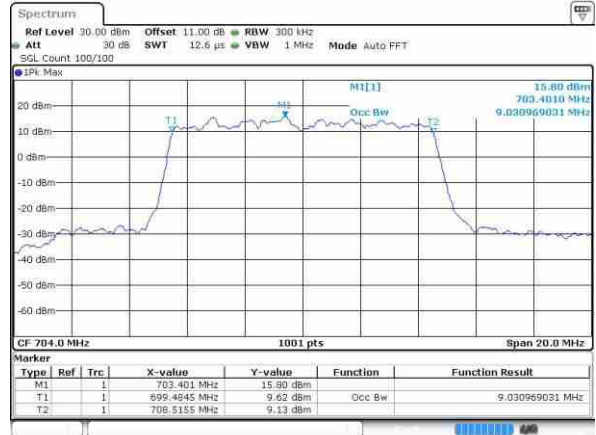


LTE Band 12

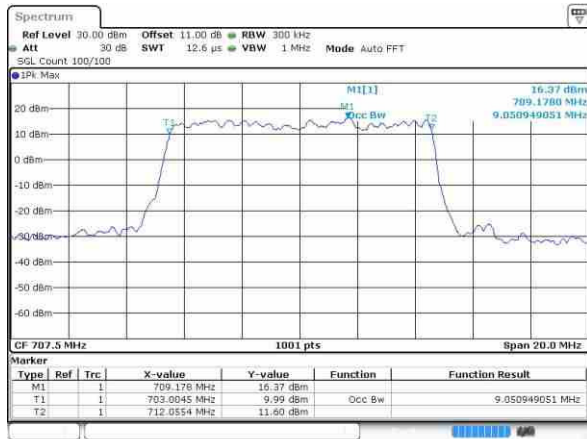
Lowest Channel / 10MHz / QPSK



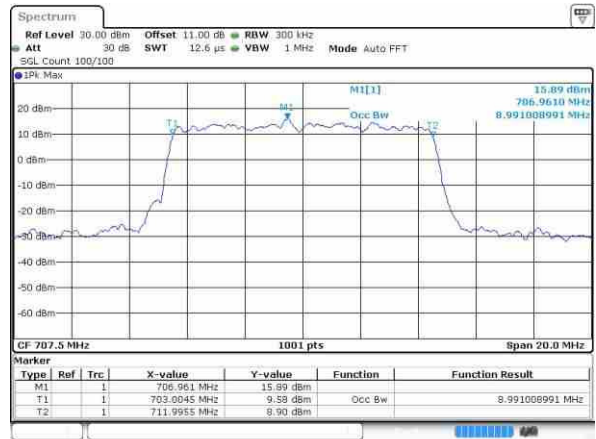
Lowest Channel / 10MHz / 16QAM



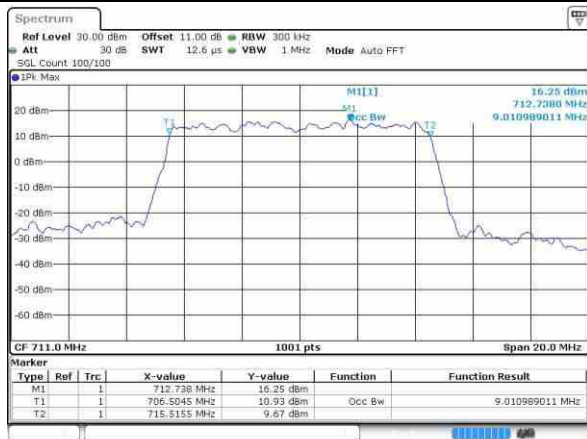
Middle Channel / 10MHz / QPSK



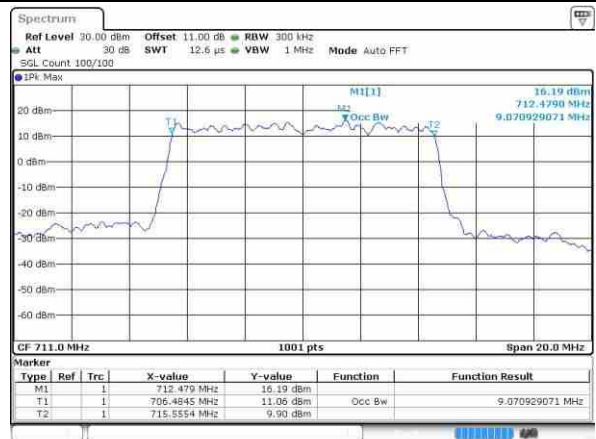
Middle Channel / 10MHz / 16QAM



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

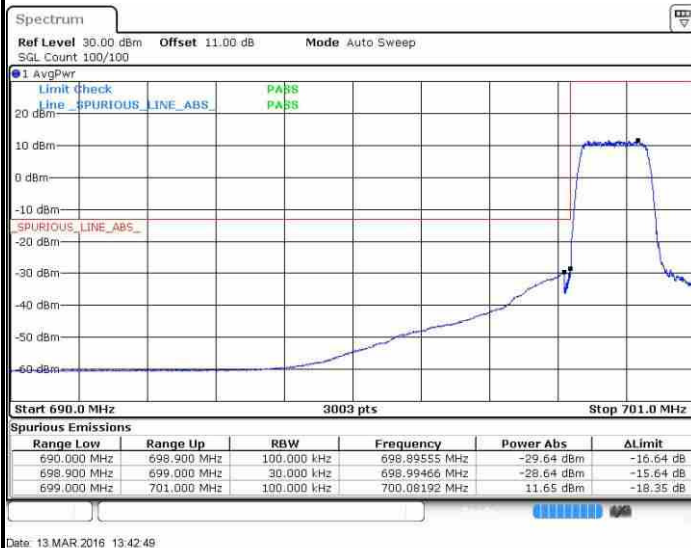
Lowest Band Edge / 1 RB



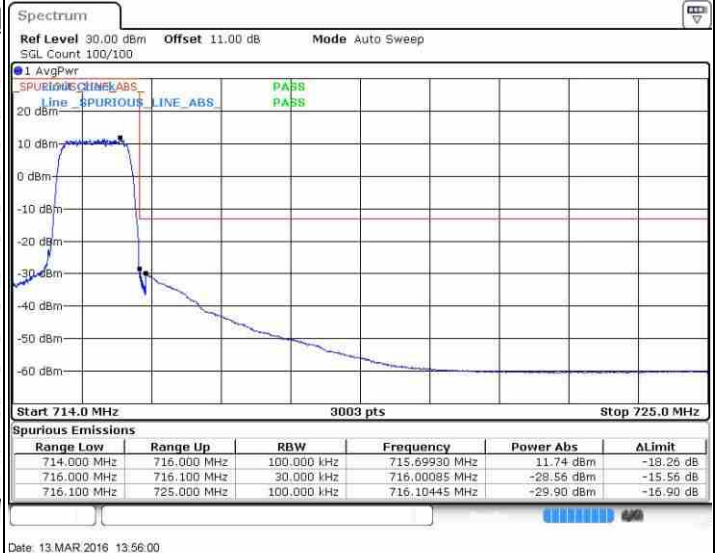
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



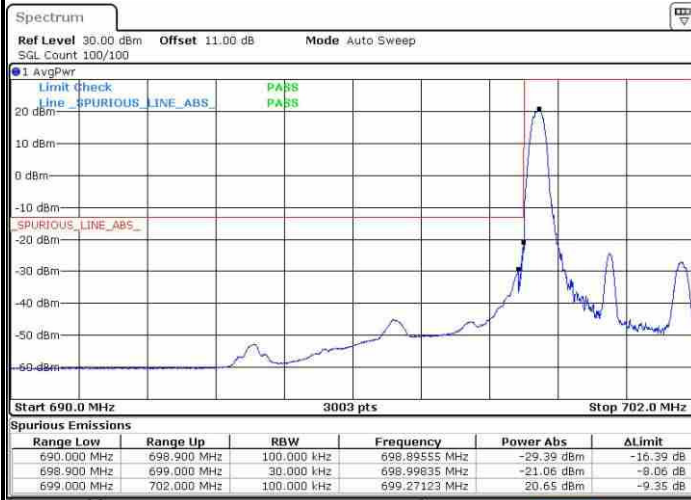
Highest Band Edge / Full RB



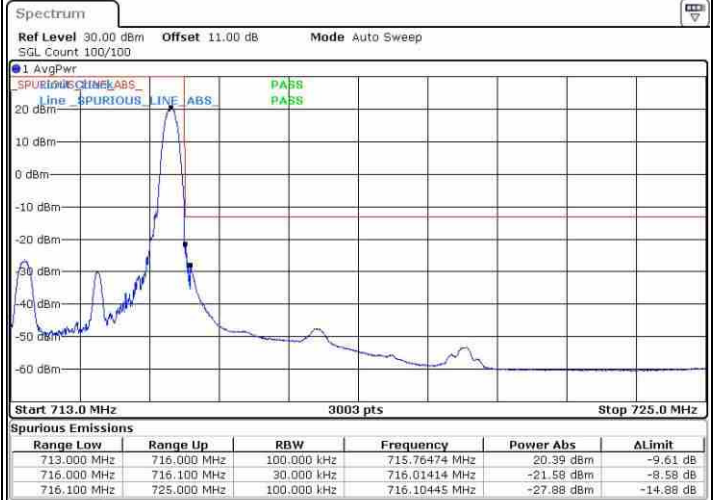


LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



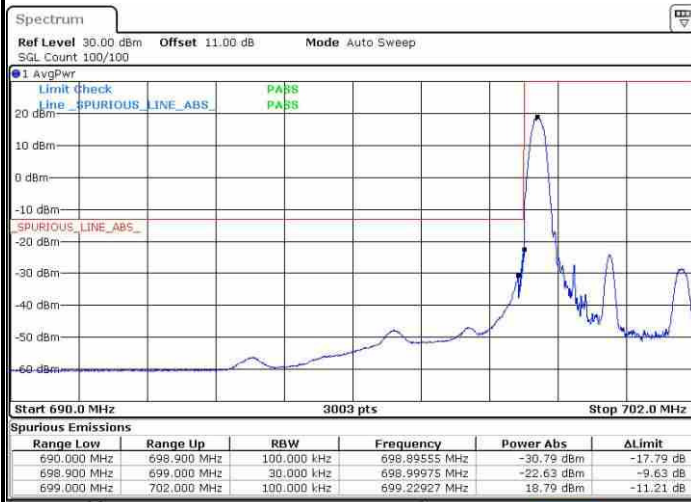
Highest Band Edge / Full RB



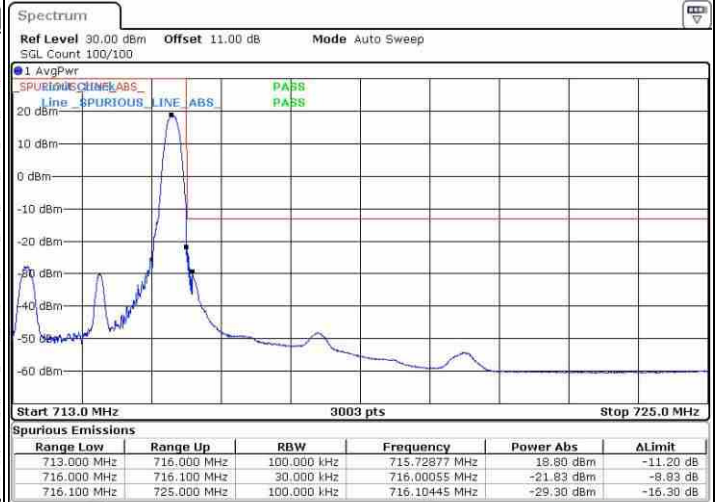


LTE Band 12 / 3MHz / 16QAM

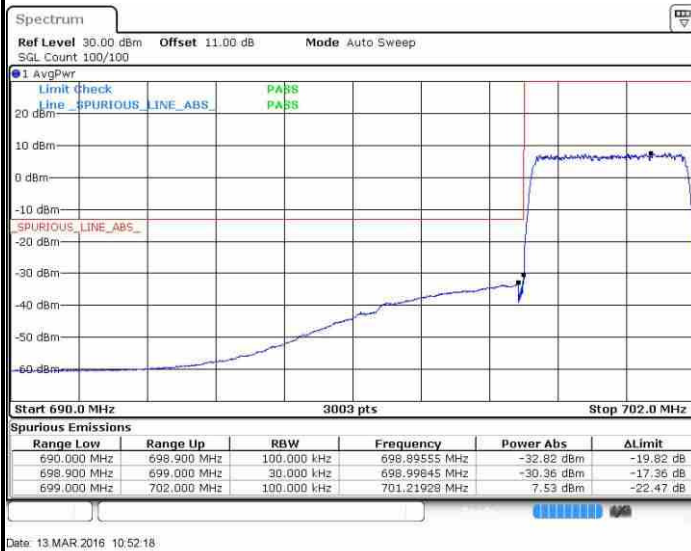
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



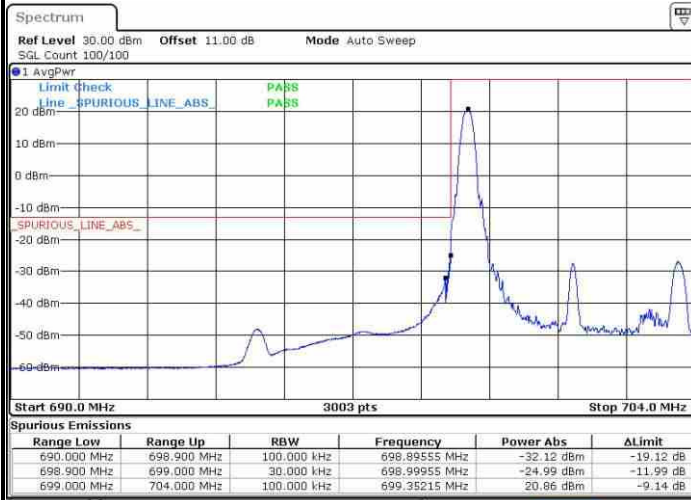
Highest Band Edge / Full RB



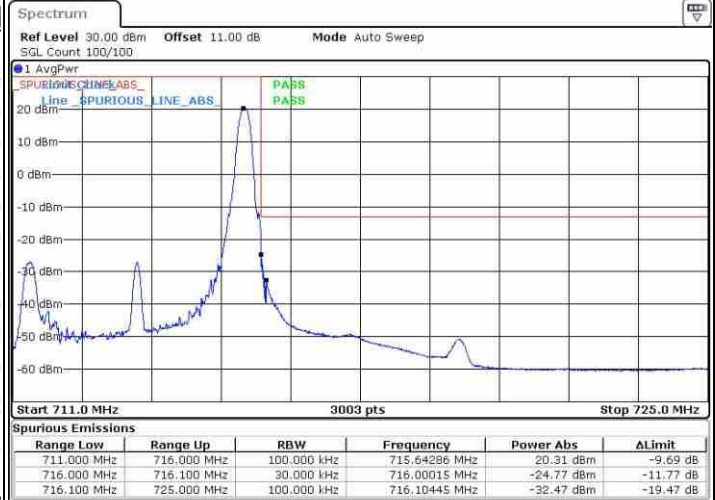


LTE Band 12 / 5MHz / QPSK

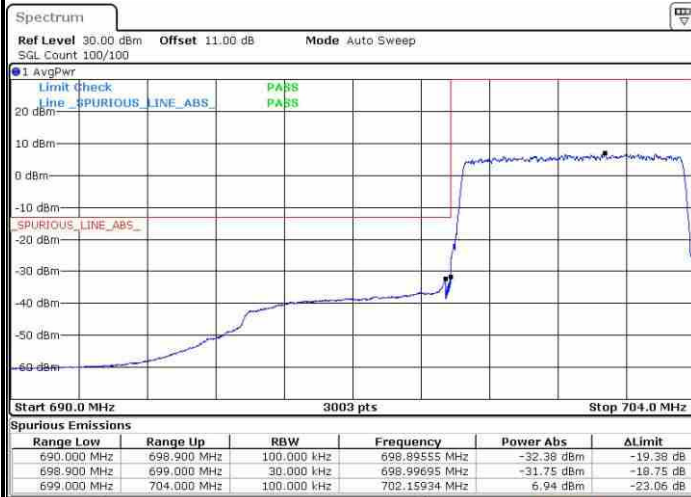
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



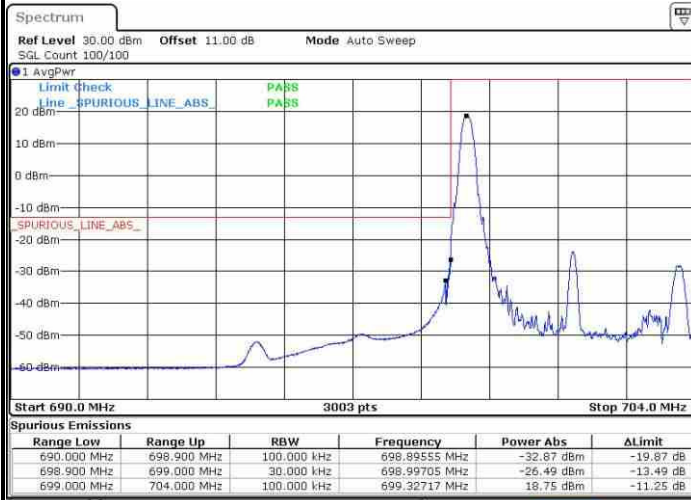
Highest Band Edge / Full RB



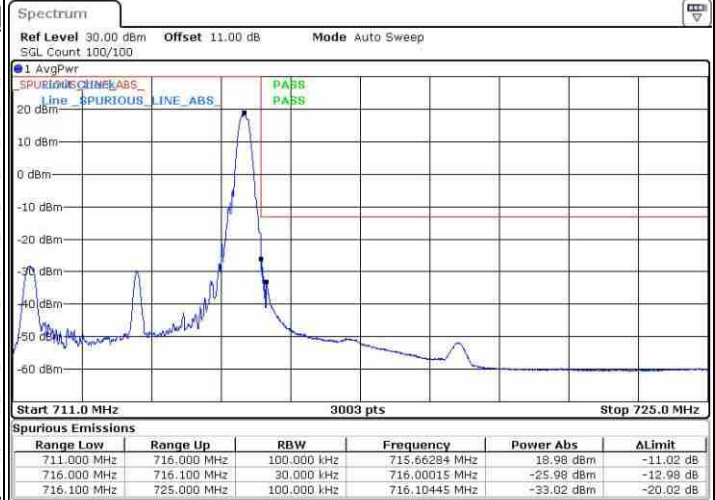


LTE Band 12 / 5MHz / 16QAM

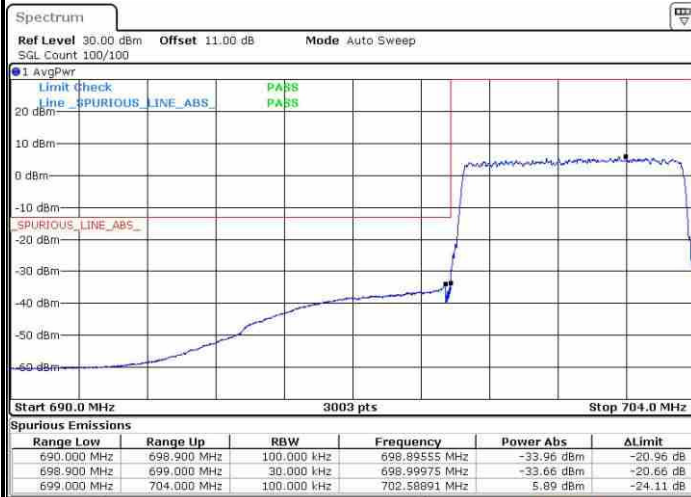
Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



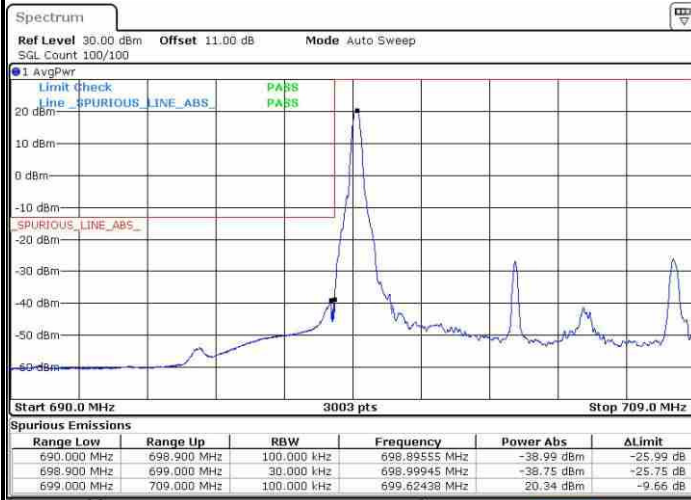
Highest Band Edge / Full RB



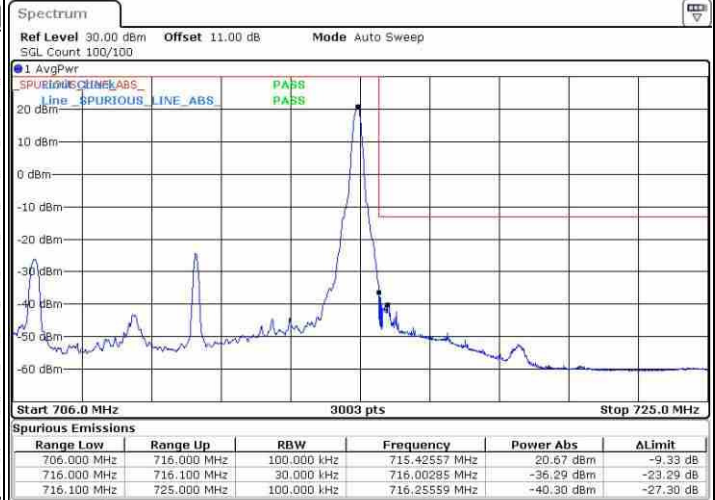


LTE Band 12 / 10MHz / QPSK

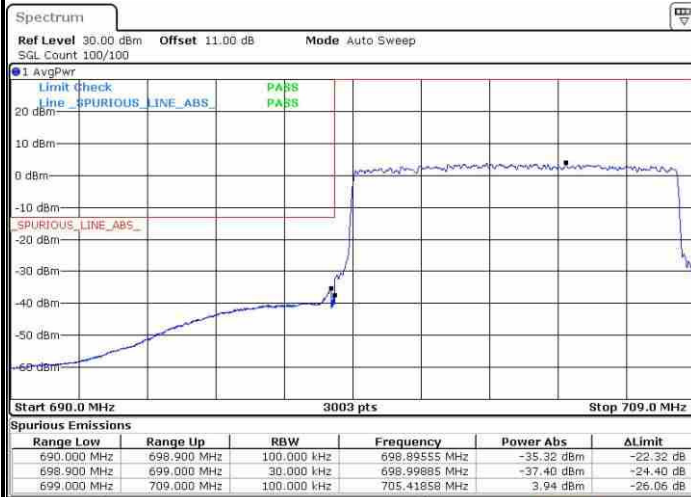
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

