

**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	0.0024	PASS
40	Normal Voltage	0.0013	
30	Normal Voltage	0.0017	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0008	
-10	Normal Voltage	0.0001	
-20	Normal Voltage	0.0020	
-30	Normal Voltage	0.0027	
20	Maximum Voltage	0.0020	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0006	

Note:

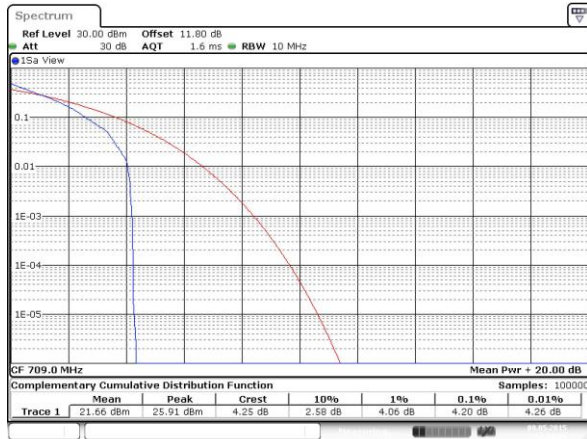
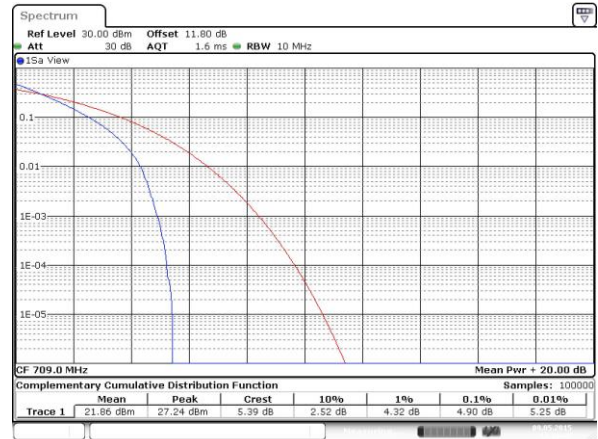
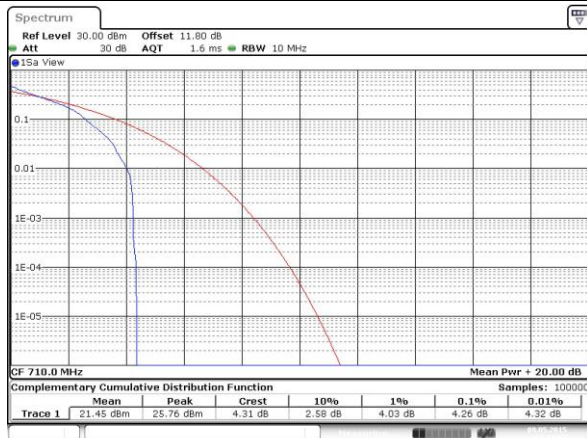
1. Normal Voltage = 3.95V. ; Battery End Point (BEP) = 3.55 V. ; Maximum Voltage =4.35 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



LTE Band 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	4.2	4.9	5.42	5.8	PASS
Middle CH	4.26	4.84	4.58	5.86	
Highest CH	4.14	4.87	5.13	5.77	

LTE Band 17 / 10MHz / QPSK
Lowest Channel / 1RB

Lowest Channel / Full RB

Middle Channel/ 1RB

Middle Channel / Full RB

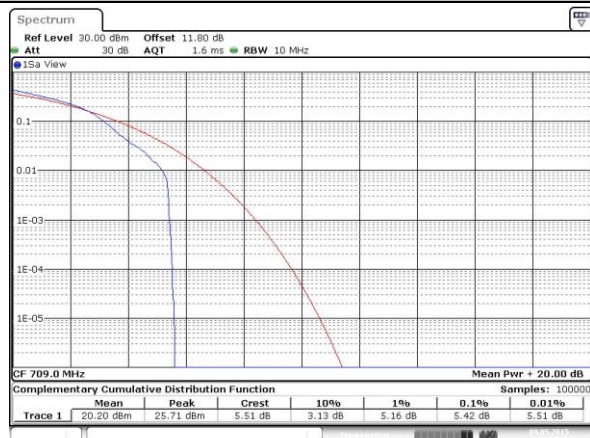
Highest Channel/ 1RB

Highest Channel / Full RB

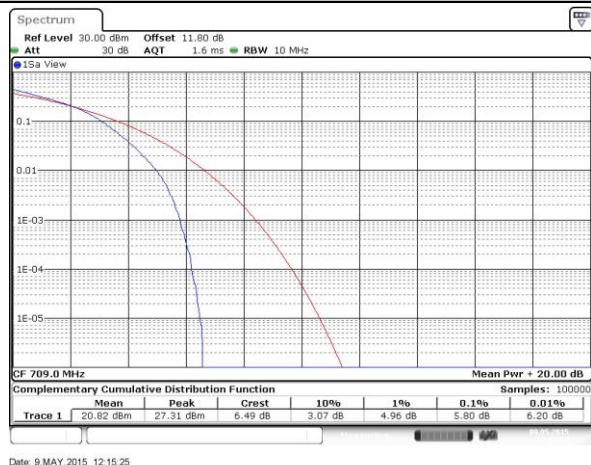



LTE Band 17 / 10MHz / 16QAM

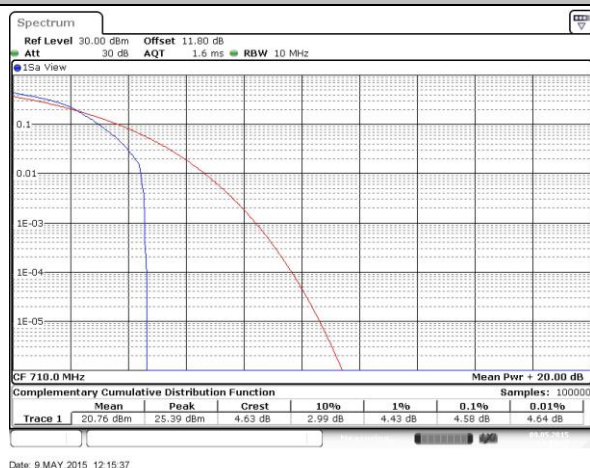
Lowest Channel / 1RB



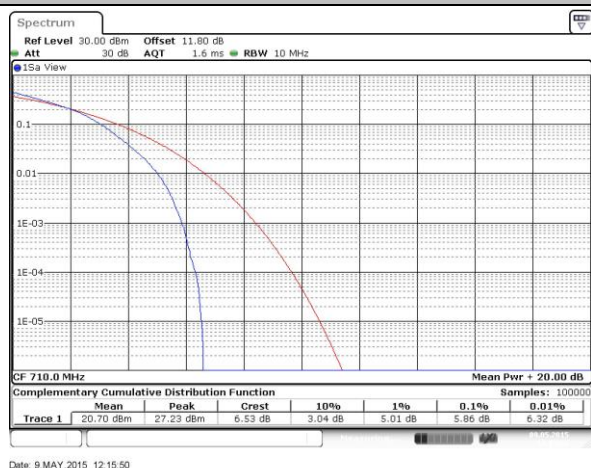
Lowest Channel / Full RB



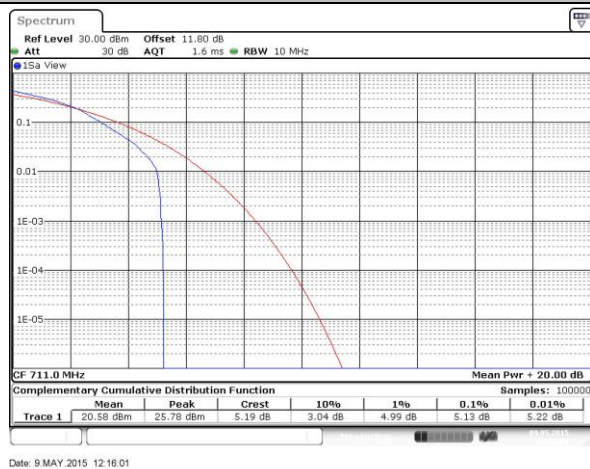
Middle Channel/ 1RB



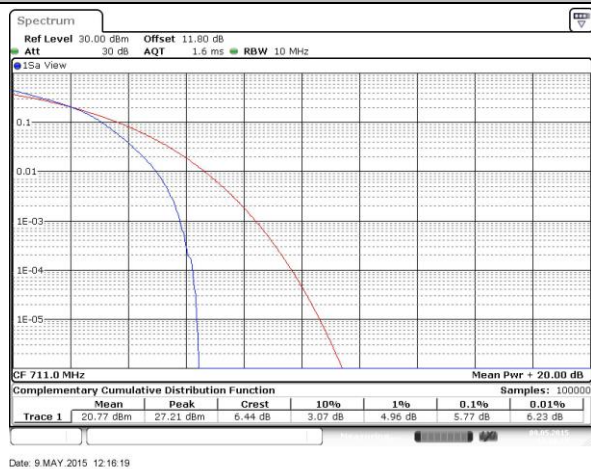
Middle Channel / Full RB



Highest Channel/ 1RB



Highest Channel / Full RB





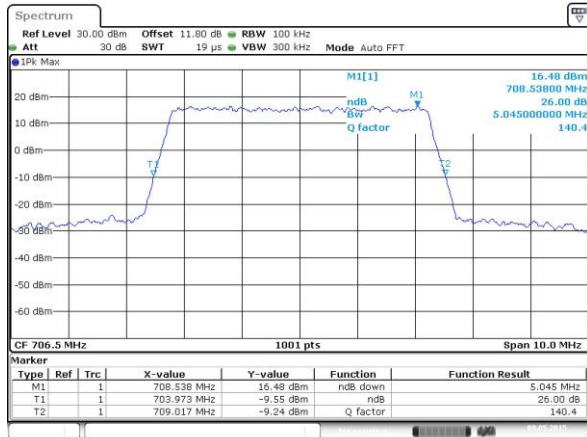
26dB Bandwidth

Mode	LTE Band 17 : 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	-	-	-	-	5.05	5.06	10.01	10.07	-	-	-	-
Middle CH	-	-	-	-	5.04	5.07	10.09	9.97	-	-	-	-
Highest CH	-	-	-	-	5.05	5.03	10.09	9.95	-	-	-	-

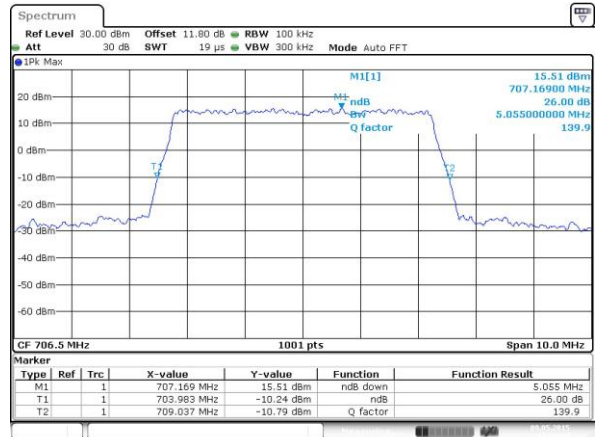


LTE Band 17

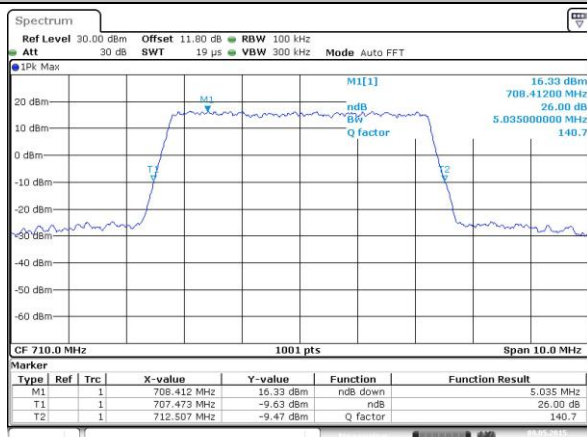
Lowest Channel / 5MHz / QPSK



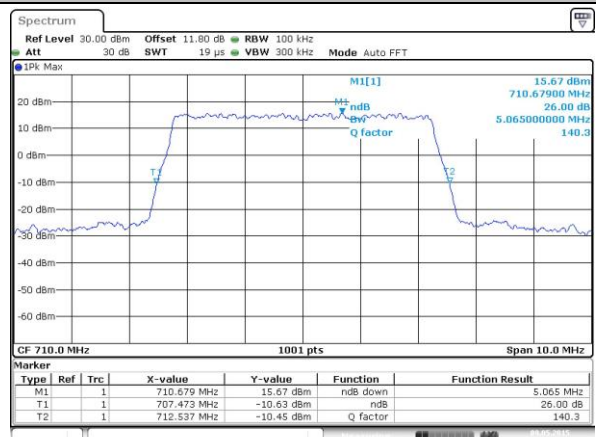
Lowest Channel / 5MHz / 16QAM



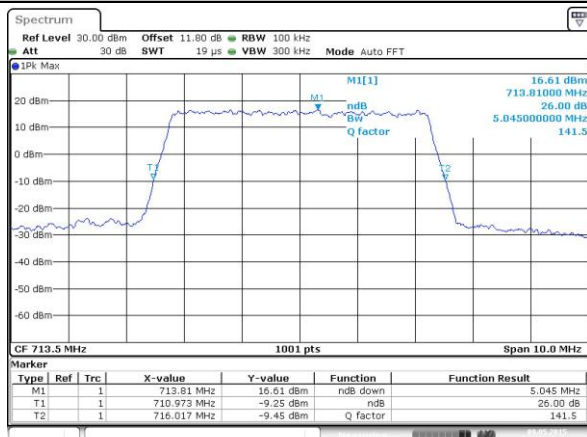
Middle Channel / 5MHz / QPSK



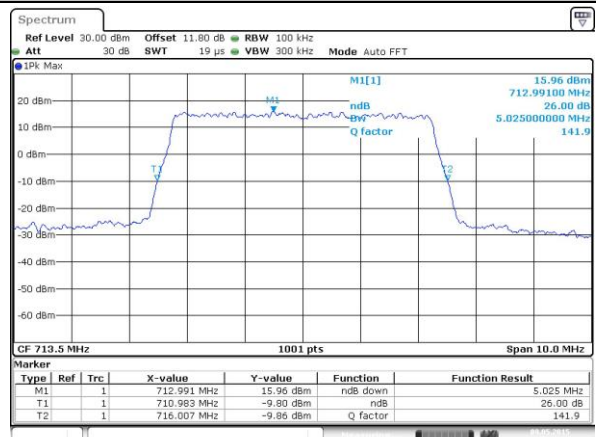
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



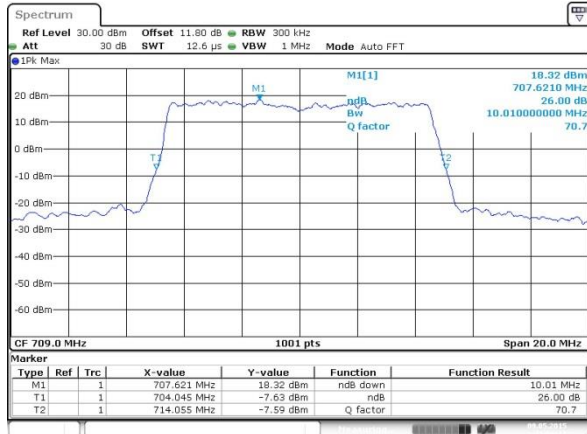
Highest Channel / 5MHz / 16QAM





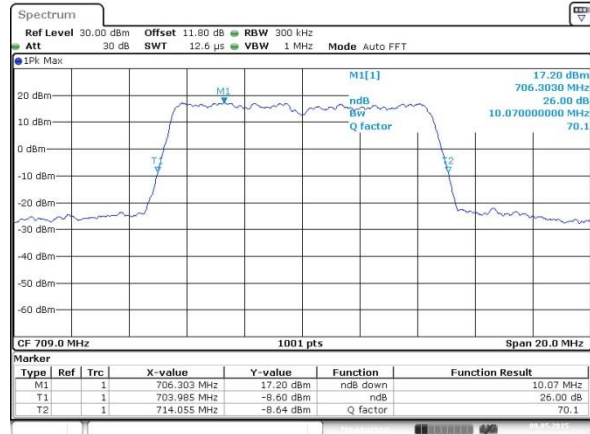
LTE Band 17

Lowest Channel / 10MHz / QPSK



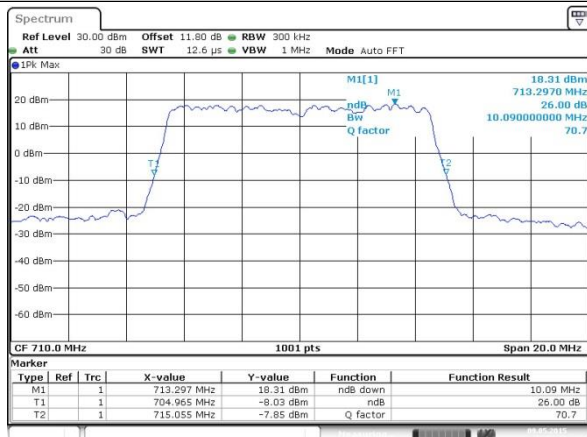
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Lowest Channel / 10MHz / 16QAM



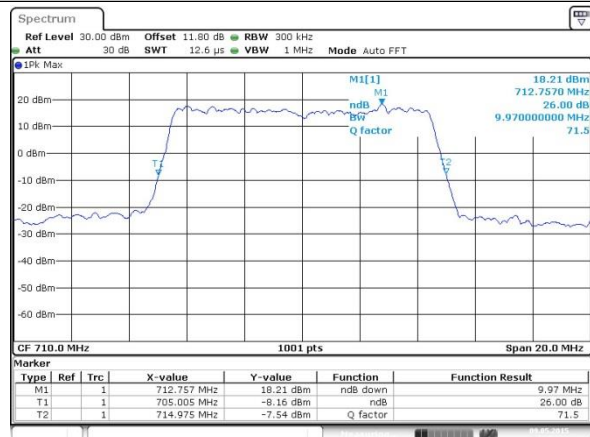
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Middle Channel / 10MHz / QPSK



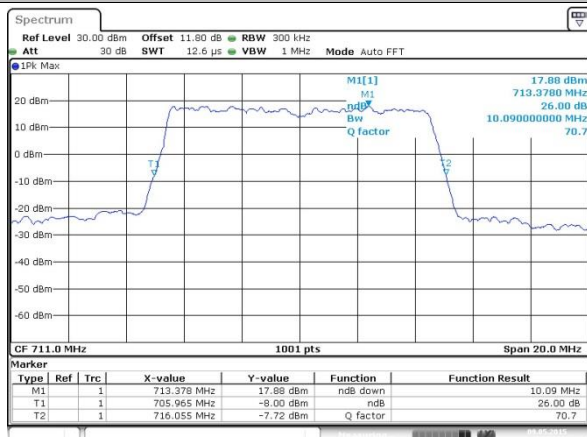
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Middle Channel / 10MHz / 16QAM



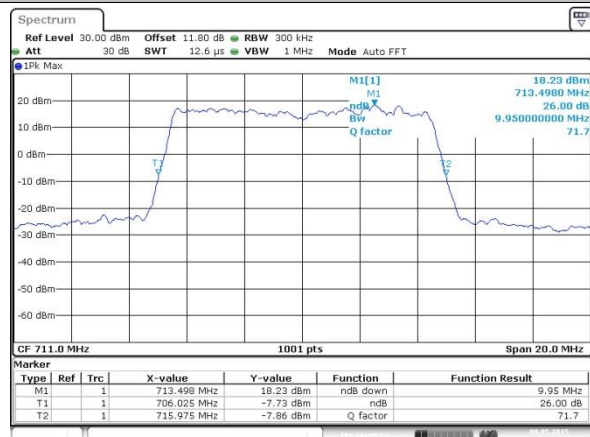
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Highest Channel / 10MHz / QPSK



Date: 9 MAY 2015 12:07:23

Highest Channel / 10MHz / 16QAM



Date: 9 MAY 2015 12:07:36



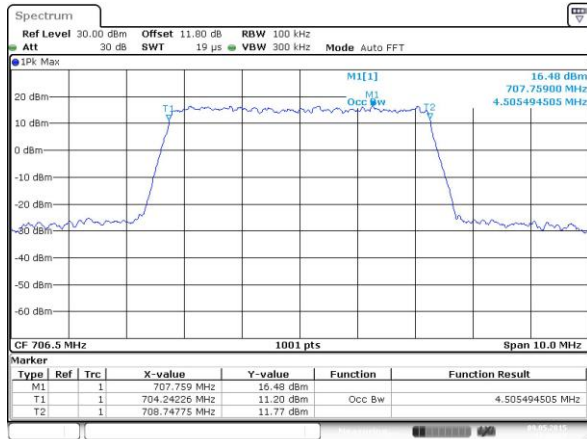
Occupied Bandwidth

Mode	LTE Band 17 : 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	-	-	-	-	4.51	4.5	9.03	9.01	-	-	-	-
Middle CH	-	-	-	-	4.51	4.49	9.13	9.03	-	-	-	-
Highest CH	-	-	-	-	4.51	4.5	9.05	9.03	-	-	-	-



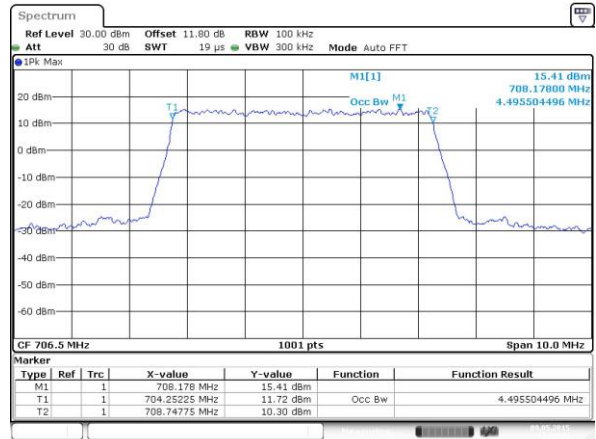
LTE Band 17

Lowest Channel / 5MHz / QPSK



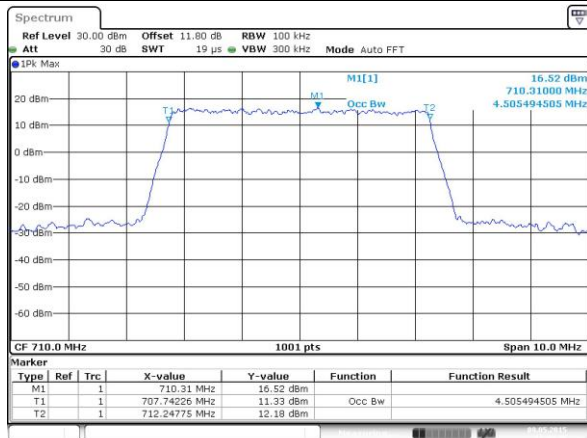
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Lowest Channel / 5MHz / 16QAM



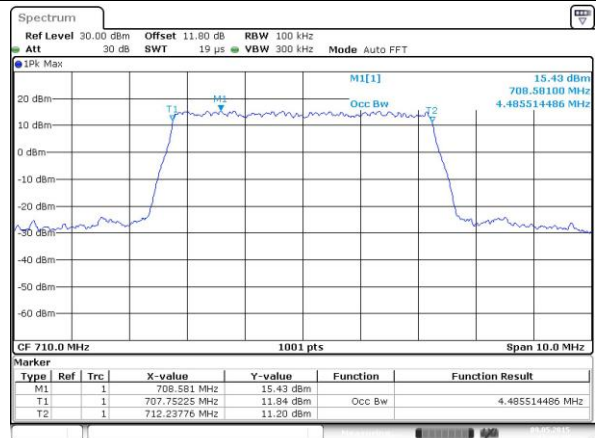
Date: 9 MAY 2015 11:37:06

Middle Channel / 5MHz / QPSK



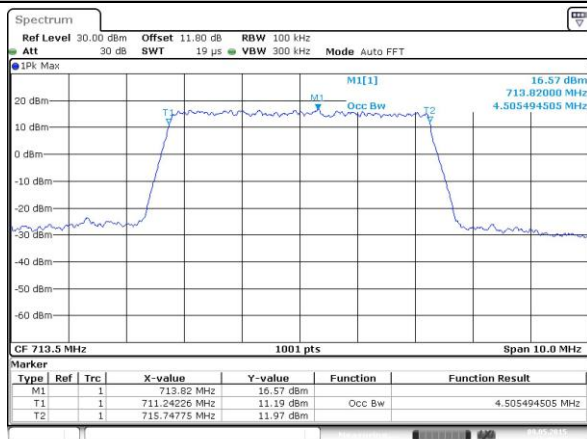
Date: 9 MAY 2015 11:44:48

Middle Channel / 5MHz / 16QAM



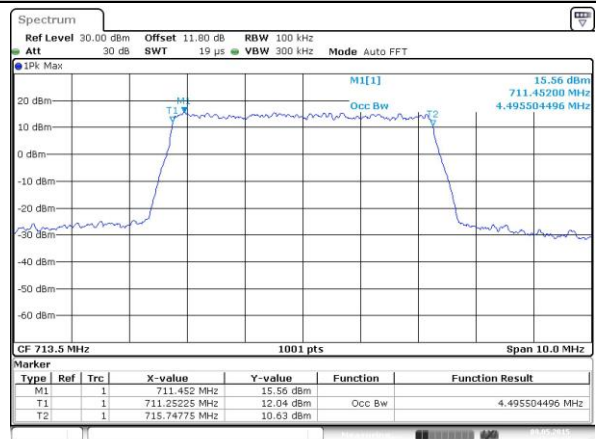
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Highest Channel / 5MHz / QPSK



Date: 9 MAY 2015 11:48:01

Highest Channel / 5MHz / 16QAM

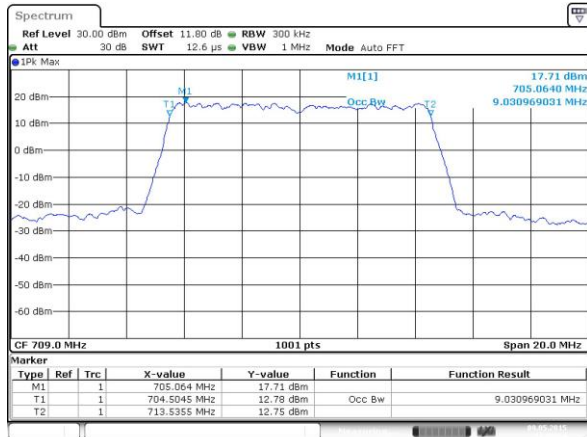


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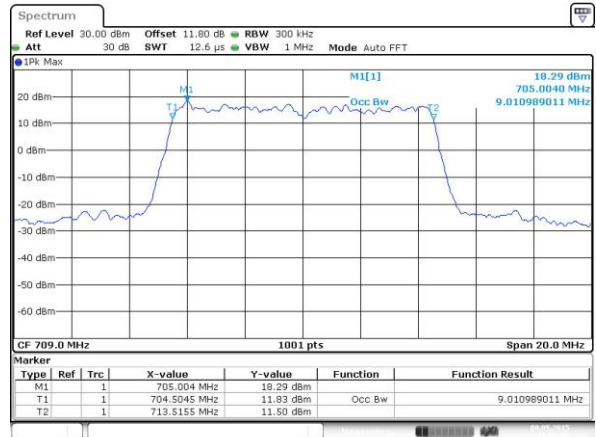


LTE Band 17

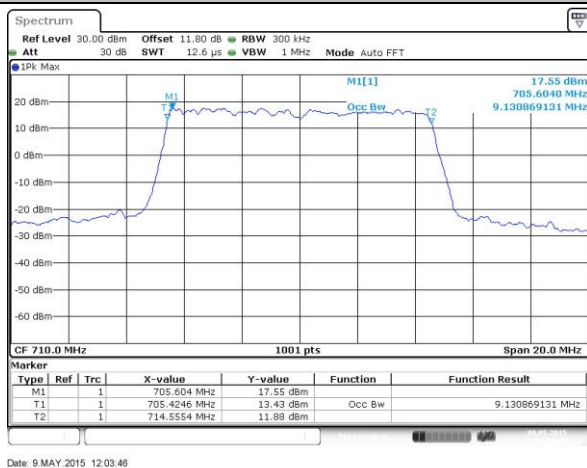
Lowest Channel / 10MHz / QPSK



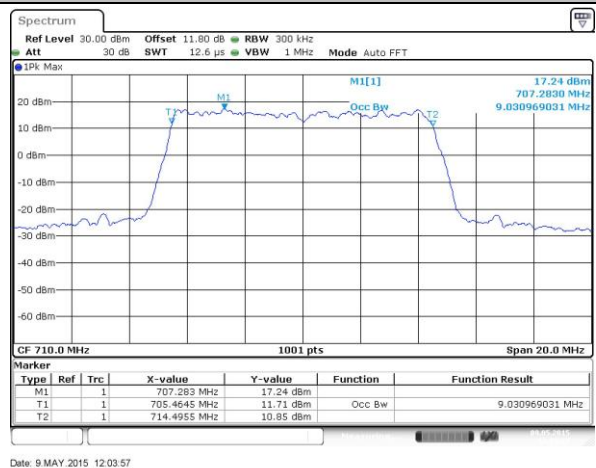
Lowest Channel / 10MHz / 16QAM



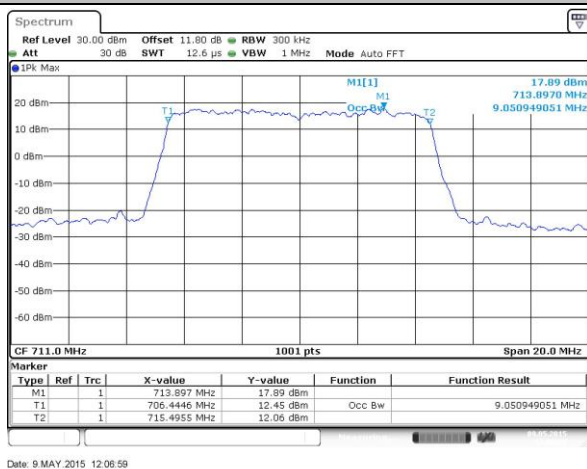
Middle Channel / 10MHz / QPSK



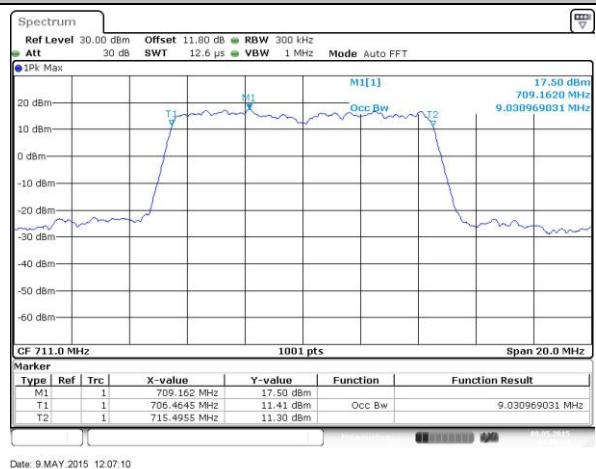
Middle Channel / 10MHz / 16QAM

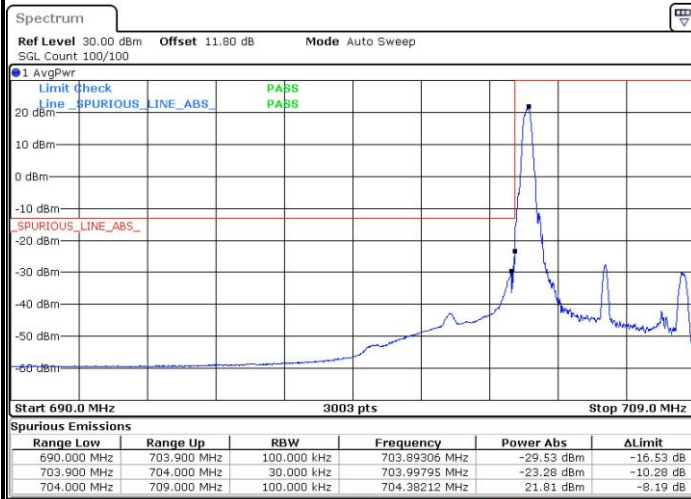
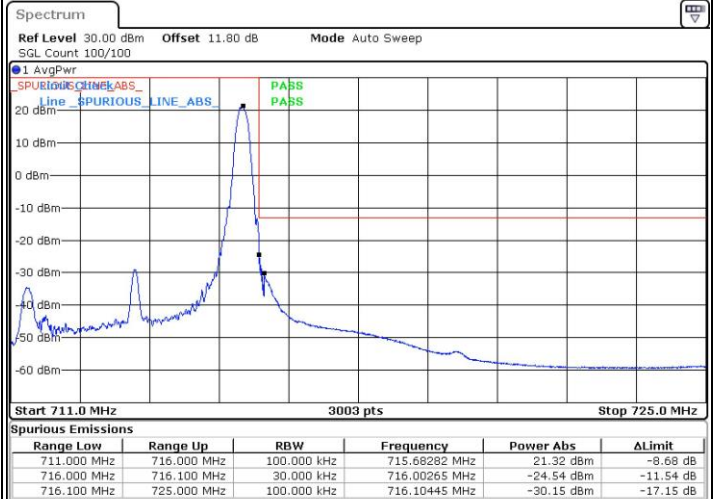
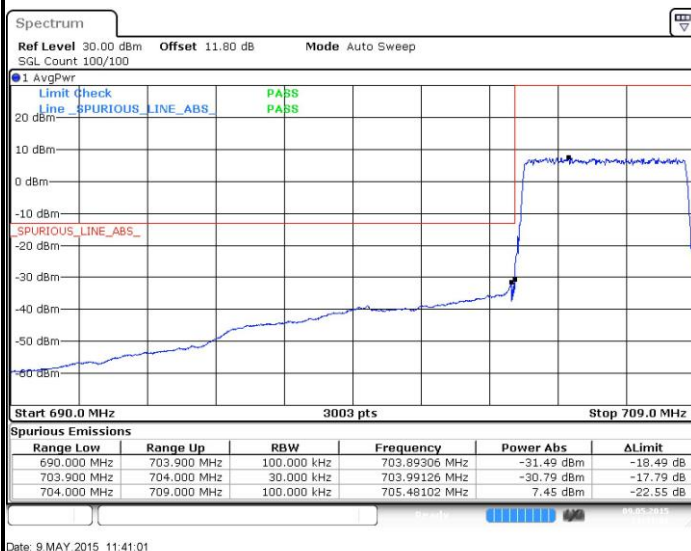
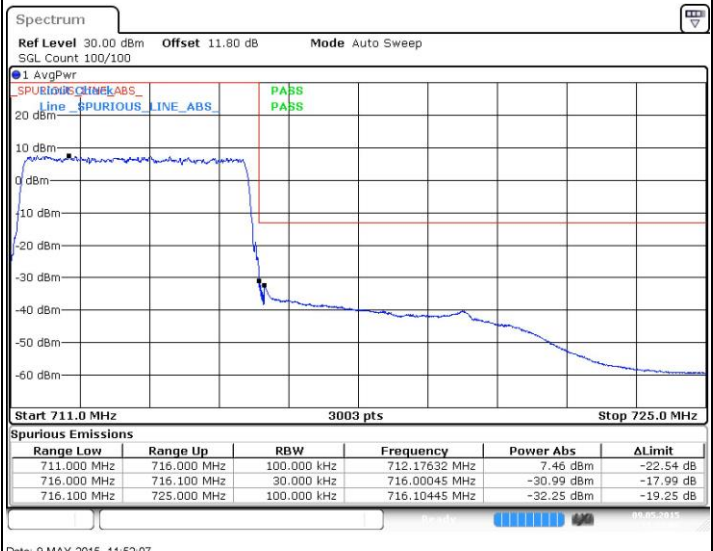


Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM

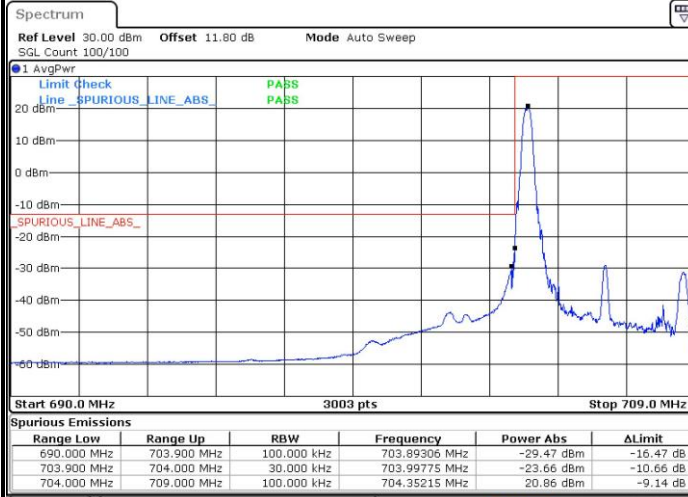


**Conducted Band Edge****LTE Band 17 / 5MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

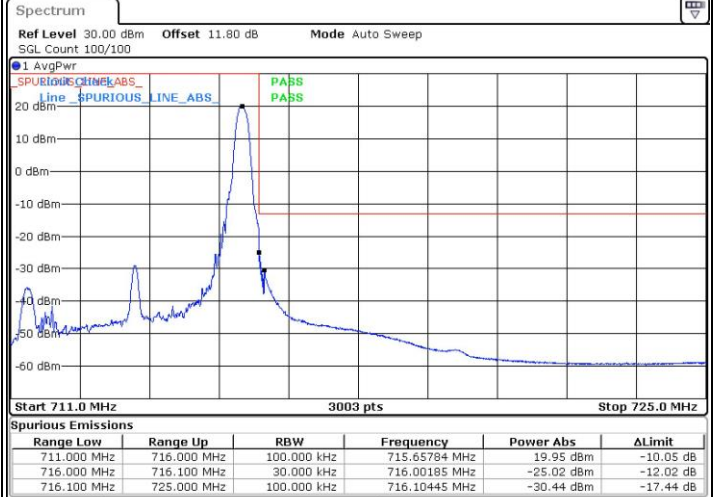


LTE Band 17 / 5MHz / 16QAM

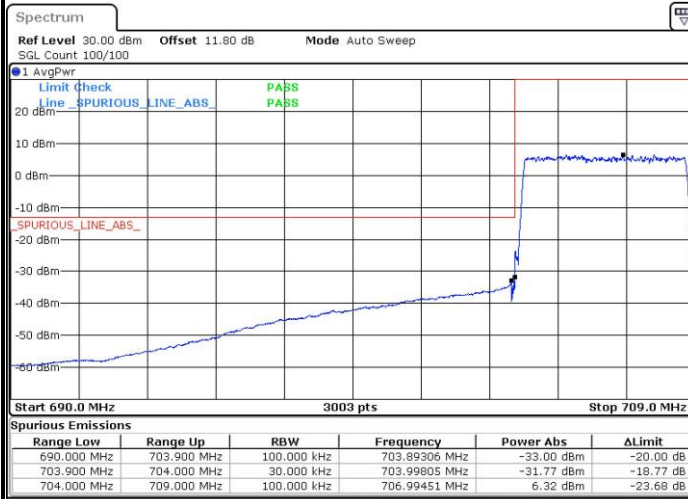
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



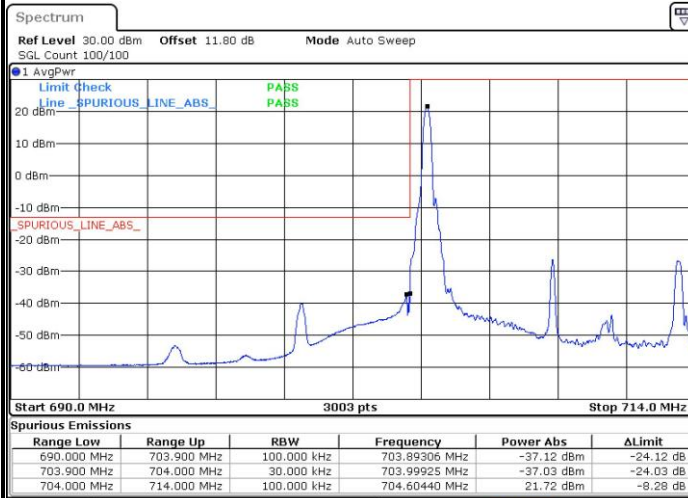
Highest Band Edge / Full RB



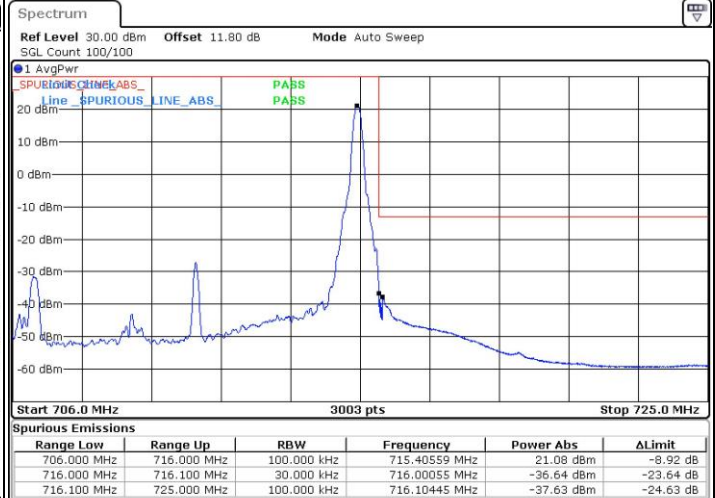


LTE Band 17 / 10MHz / QPSK

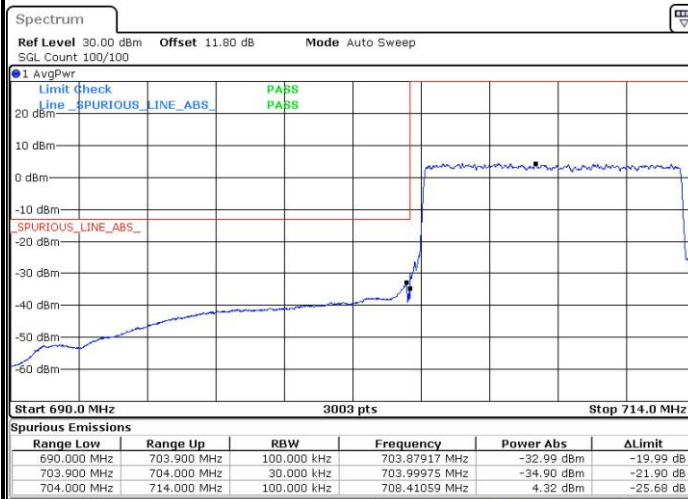
Lowest Band Edge / 1 RB



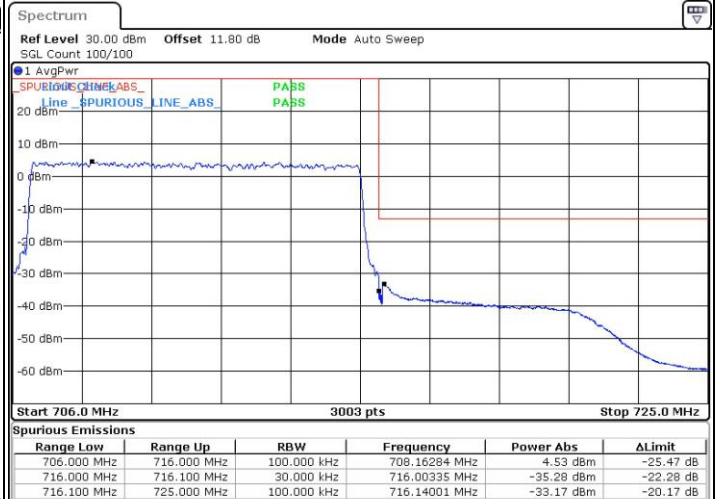
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



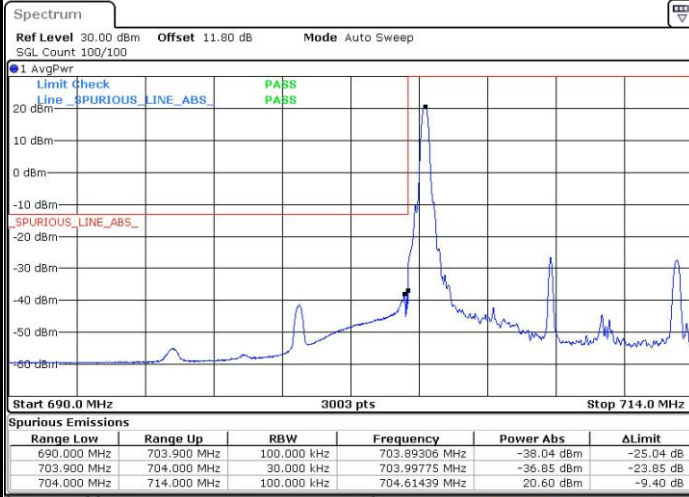
Highest Band Edge / Full RB



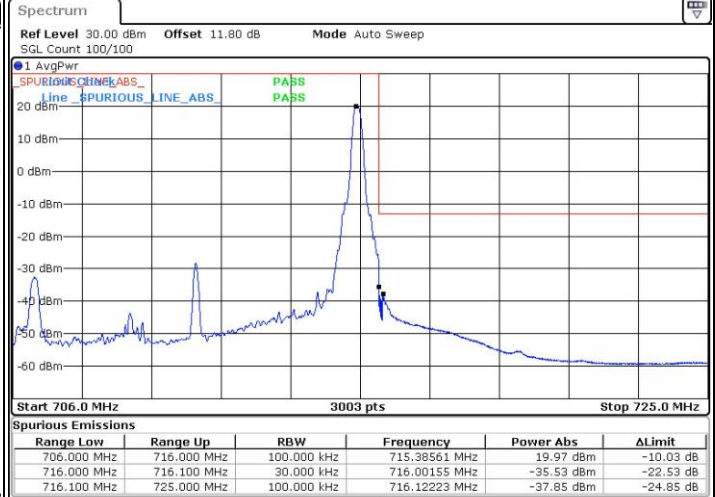


LTE Band 17 / 10MHz / 16QAM

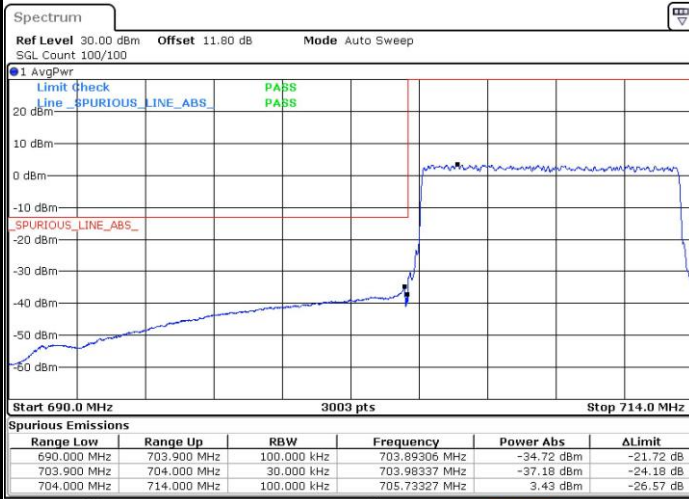
Lowest Band Edge / 1 RB



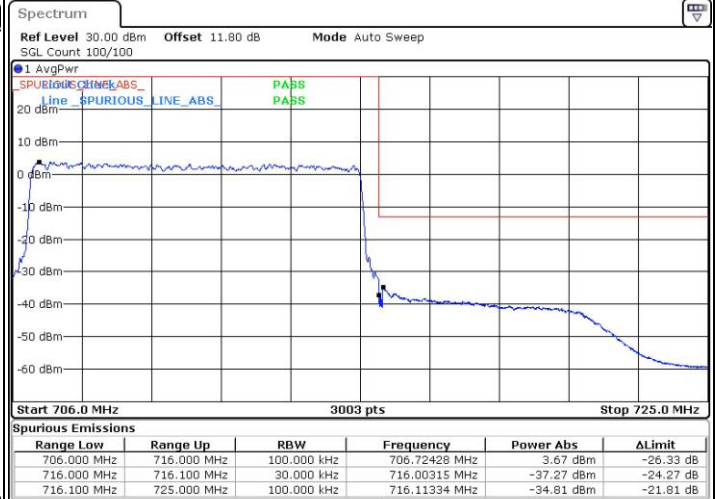
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

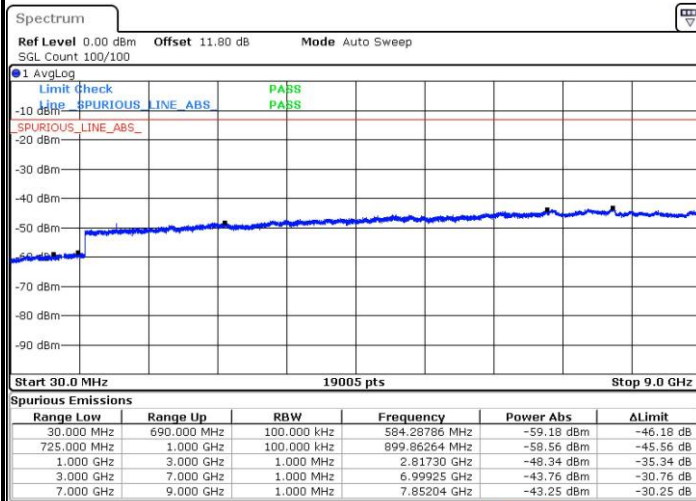




Conducted Spurious Emission

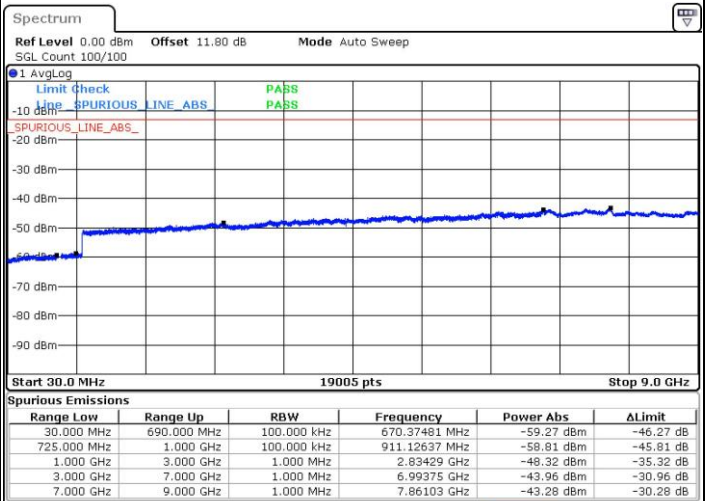
LTE Band 17 / 5MHz

Lowest Channel / QPSK



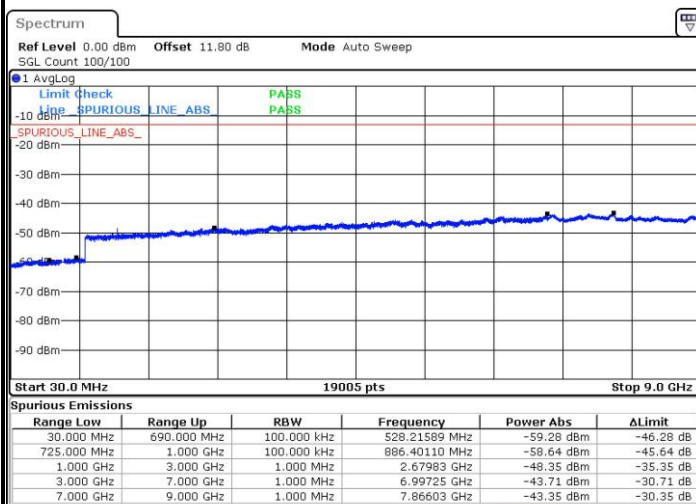
Date: 9 MAY 2015 11:43:24

Lowest Channel / 16QAM



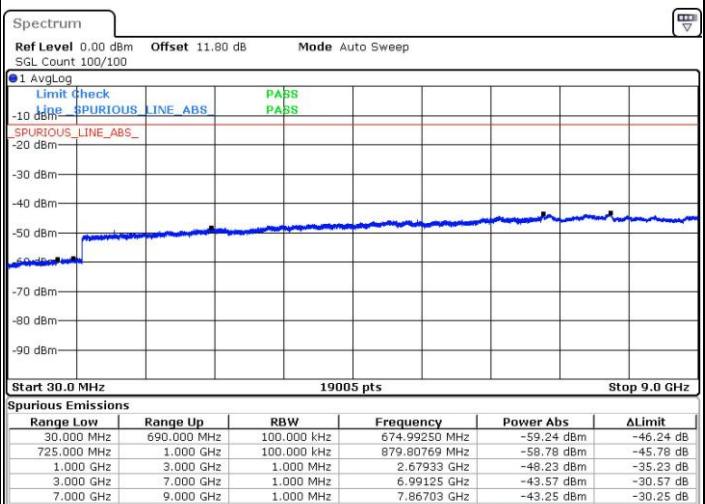
Date: 9 MAY 2015 11:44:36

Middle Channel / QPSK



Date: 9 MAY 2015 11:46:37

Middle Channel / 16QAM

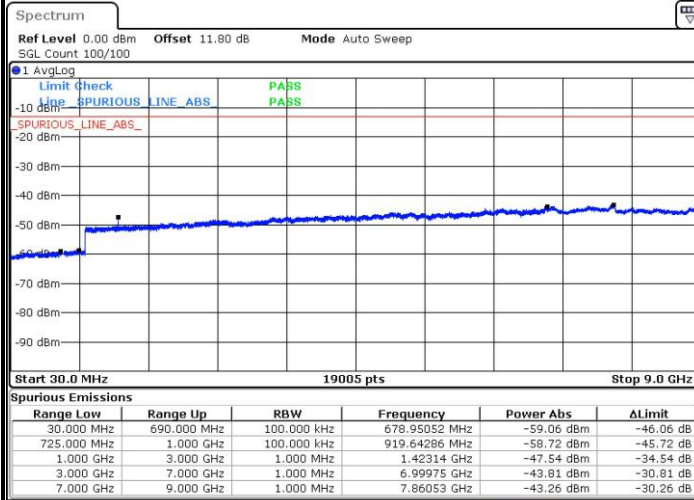


Date: 9 MAY 2015 11:47:50



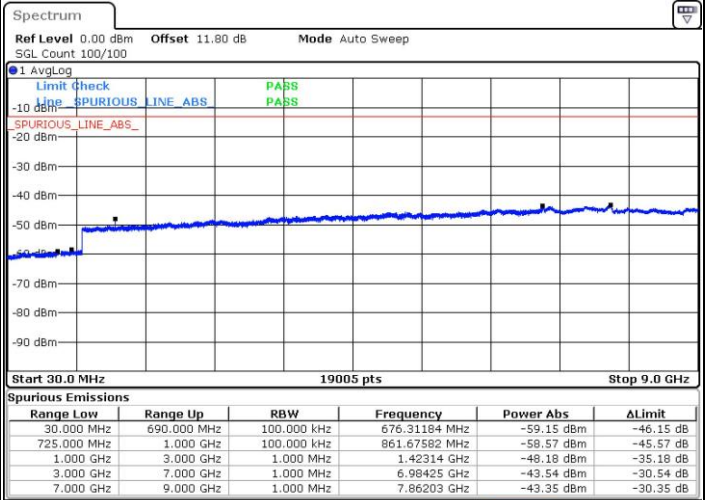
LTE Band 17 / 5MHz

Highest Channel / QPSK



Date: 9 MAY 2015 11:54:30

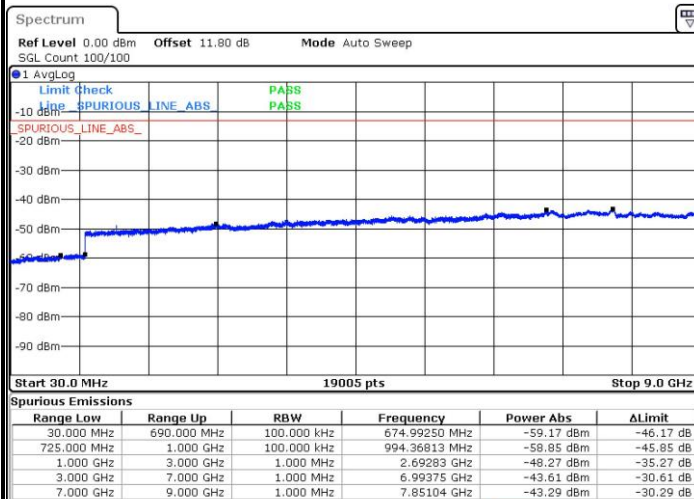
Highest Channel / 16QAM



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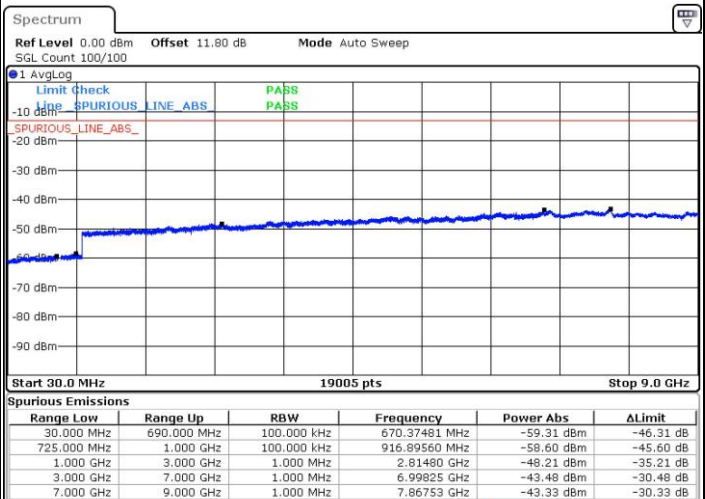
LTE Band 17 / 10MHz

Lowest Channel / QPSK



Date: 9 MAY 2015 12:02:22

Lowest Channel / 16QAM



Date: 9 MAY 2015 12:03:35