

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	0.0004	PASS
40	Normal Voltage	0.0112	
30	Normal Voltage	0.0107	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0117	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0007	
-20	Normal Voltage	0.0090	
-30	Normal Voltage	0.0007	
20	Maximum Voltage	0.0098	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0008	

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 41

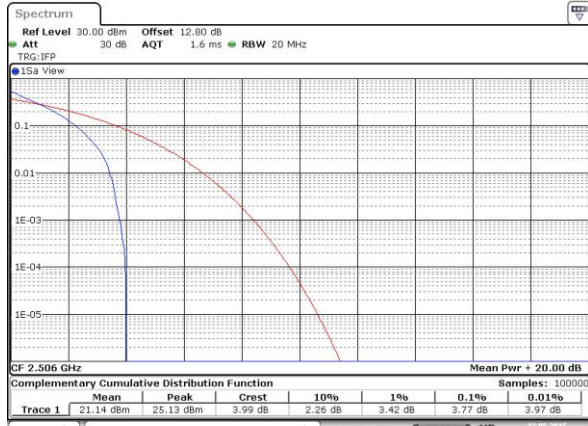
Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.77	4.93	4.52	5.88	PASS
Middle CH	4.12	5.13	5.33	6.17	
Highest CH	3.57	4.93	4.72	5.94	

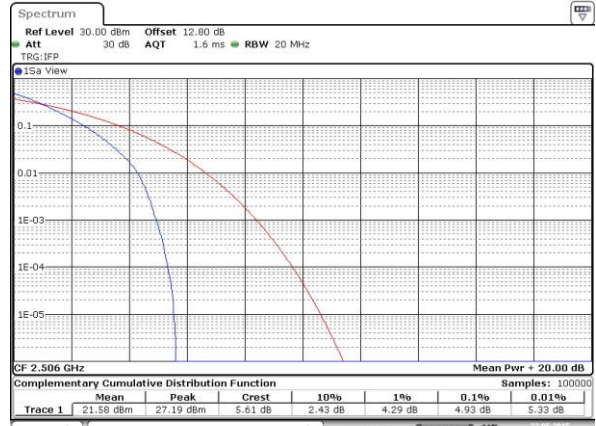


LTE Band 41 / 20MHz / QPSK

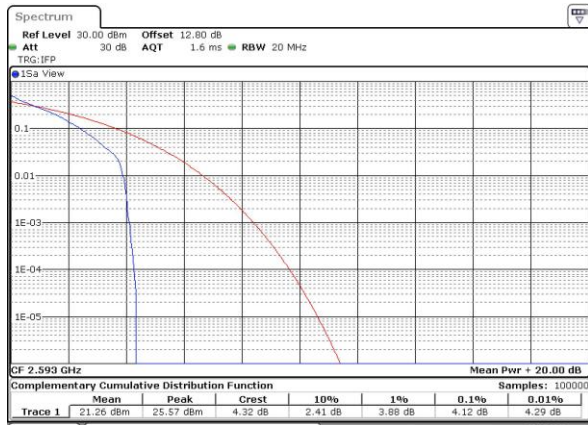
Lowest Channel / 1RB



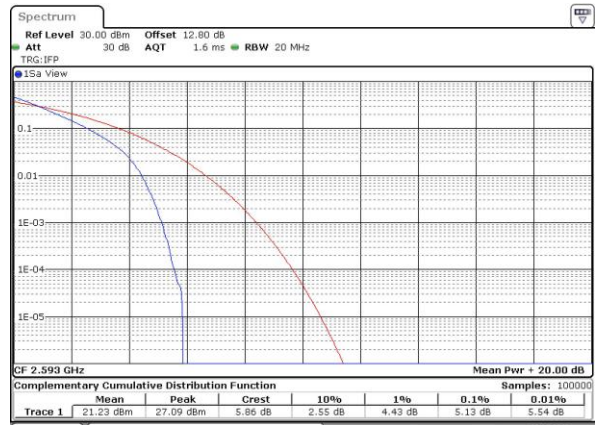
Lowest Channel / Full RB



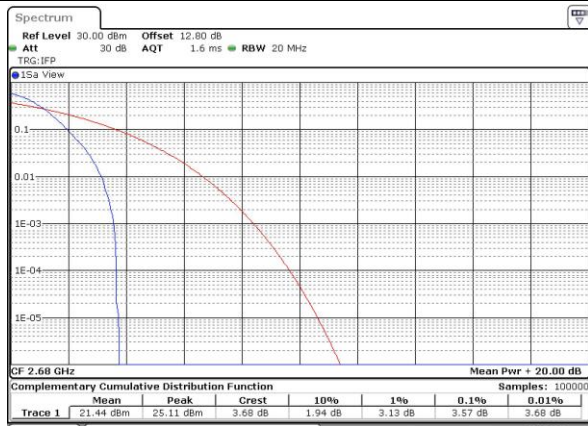
Middle Channel / 1RB



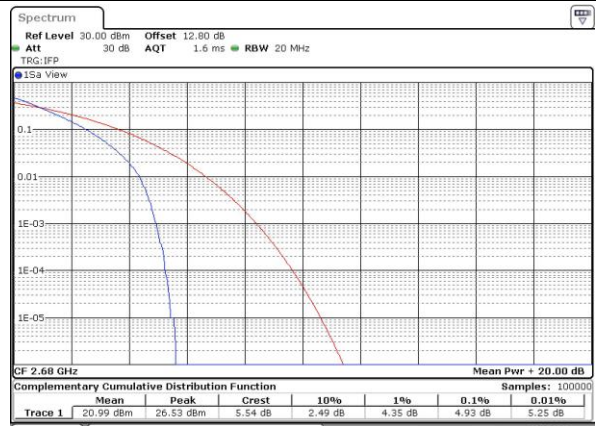
Middle Channel / Full RB



Highest Channel / 1RB



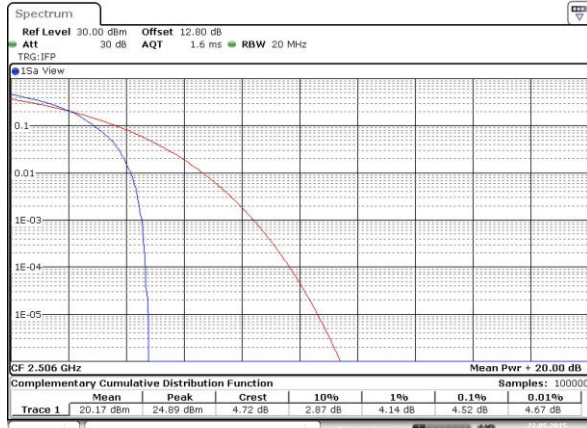
Highest Channel / Full RB



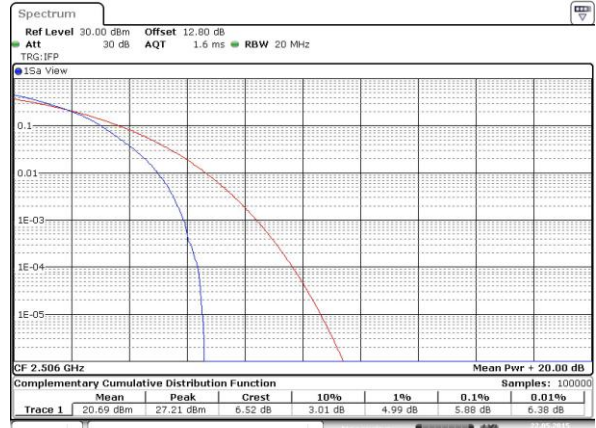


LTE Band 41 / 20MHz / 16QAM

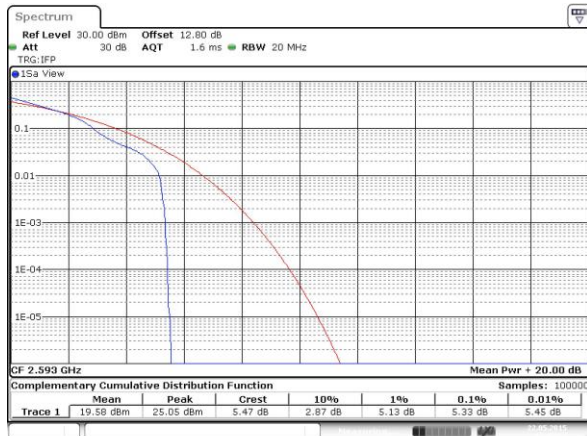
Lowest Channel / 1RB



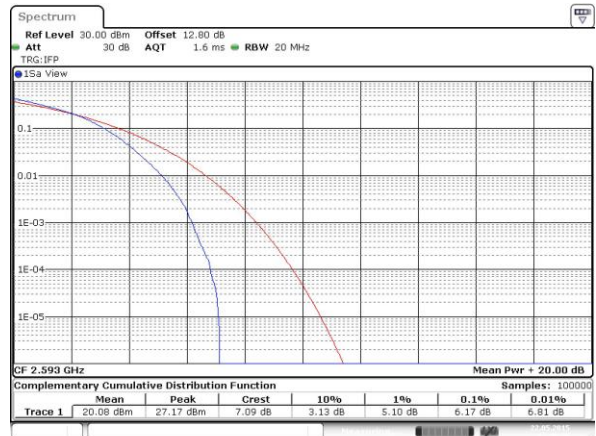
Lowest Channel / Full RB



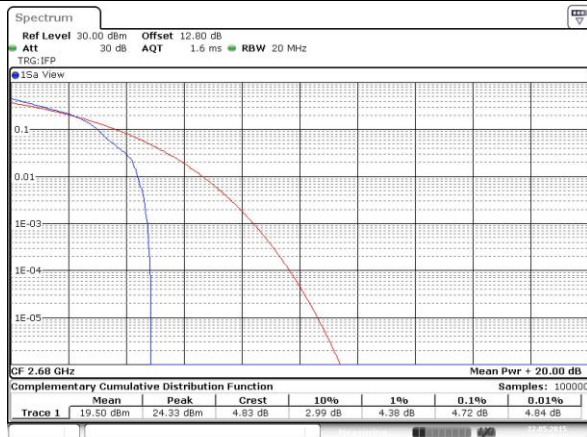
Middle Channel / 1RB



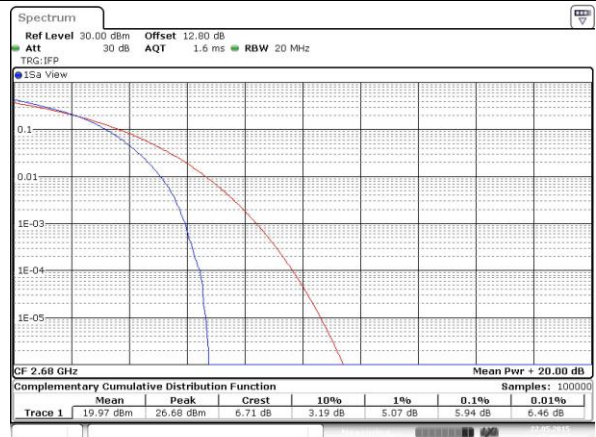
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



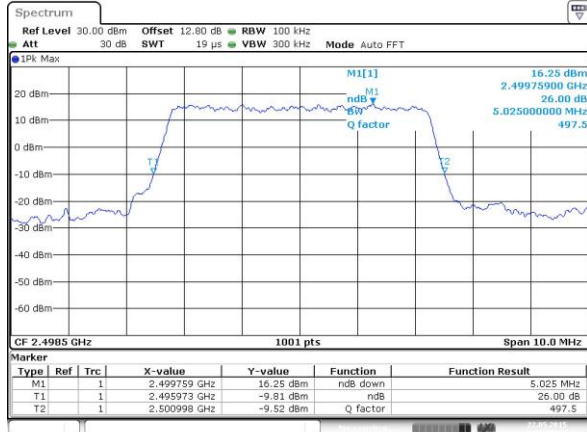
**26dB Bandwidth**

Mode	LTE Band 41 : 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	-	-	-	-	5.03	5.03	9.89	9.85	14.72	14.66	20.22	20.18
Middle CH	-	-	-	-	5.03	5.03	9.91	9.97	14.63	14.78	20.18	20.26
Highest CH	-	-	-	-	5.03	5.05	9.97	9.95	15.14	14.75	20.26	20.38



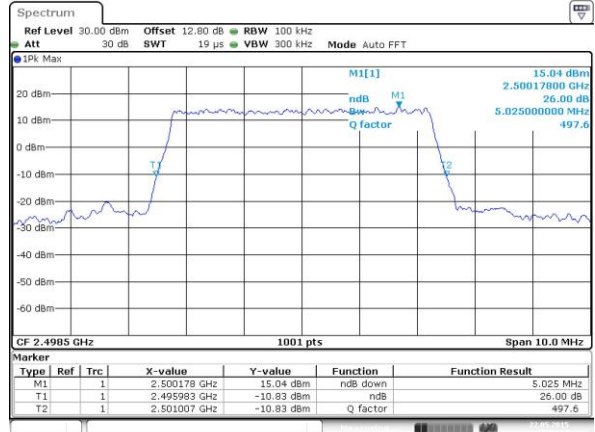
LTE Band 41

Lowest Channel / 5MHz / QPSK



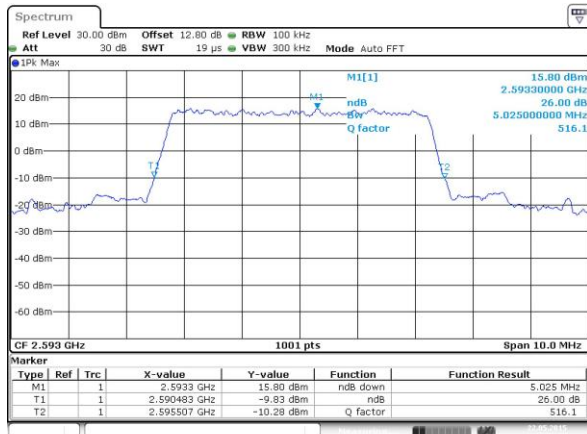
Date: 22 MAY 2015 15:08:14

Lowest Channel / 5MHz / 16QAM



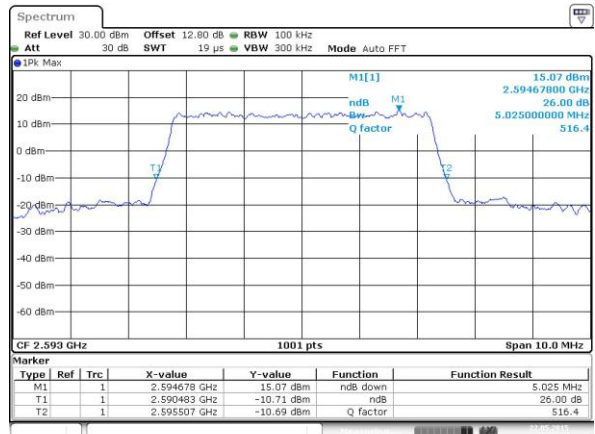
Date: 22 MAY 2015 15:08:26

Middle Channel / 5MHz / QPSK



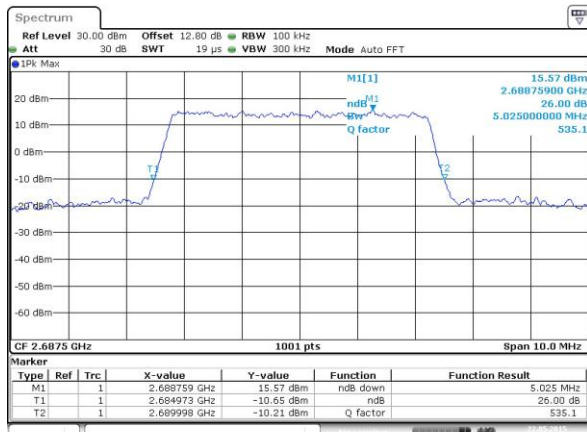
Date: 22 MAY 2015 15:09:01

Middle Channel / 5MHz / 16QAM



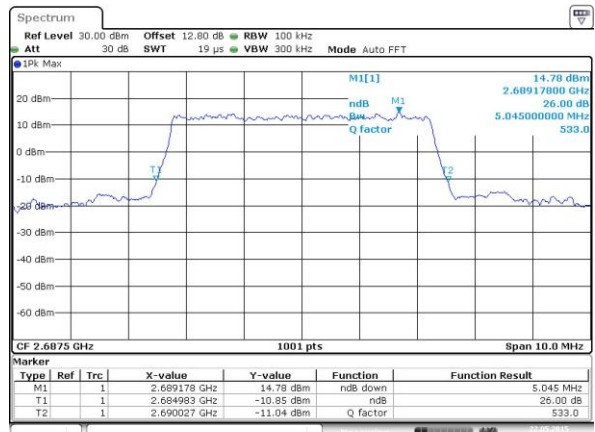
Date: 22 MAY 2015 15:09:13

Highest Channel / 5MHz / QPSK



Date: 22 MAY 2015 15:09:48

Highest Channel / 5MHz / 16QAM

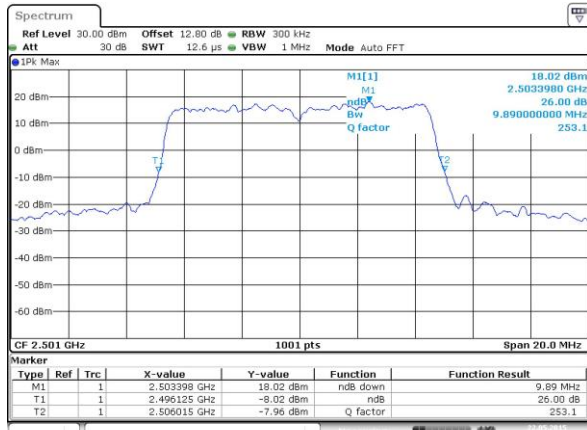


Date: 22 MAY 2015 15:10:01

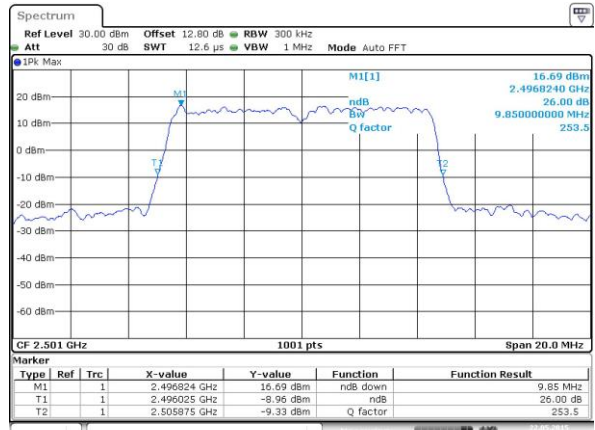


LTE Band 41

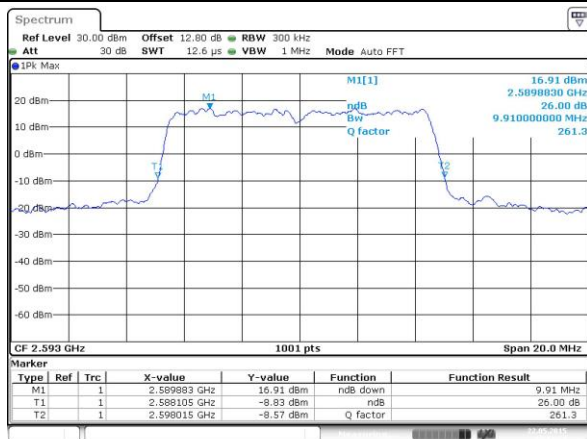
Lowest Channel / 10MHz / QPSK



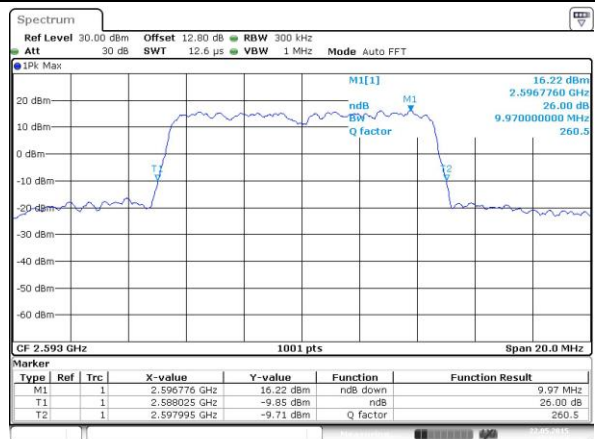
Lowest Channel / 10MHz / 16QAM



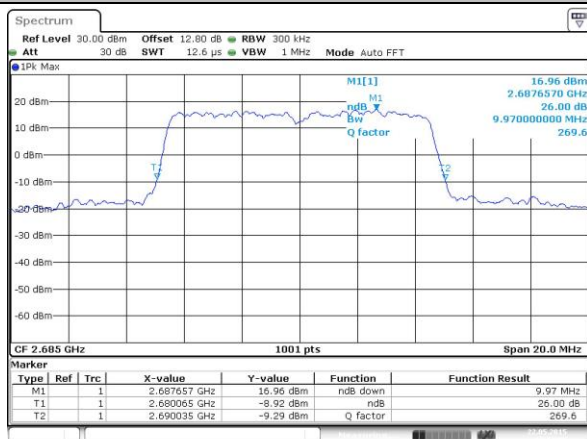
Middle Channel / 10MHz / QPSK



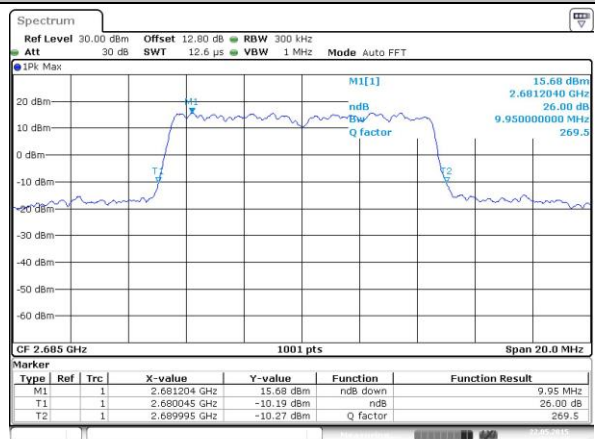
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



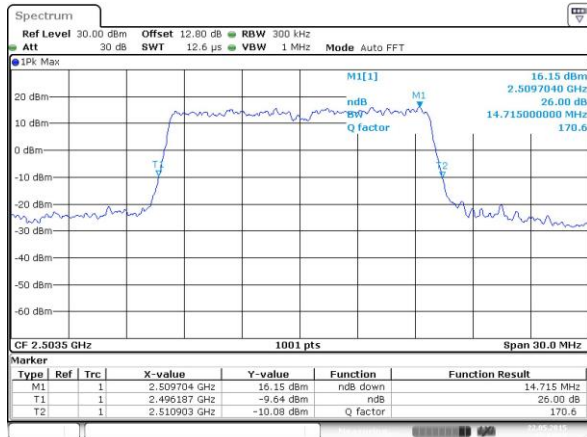
Highest Channel / 10MHz / 16QAM





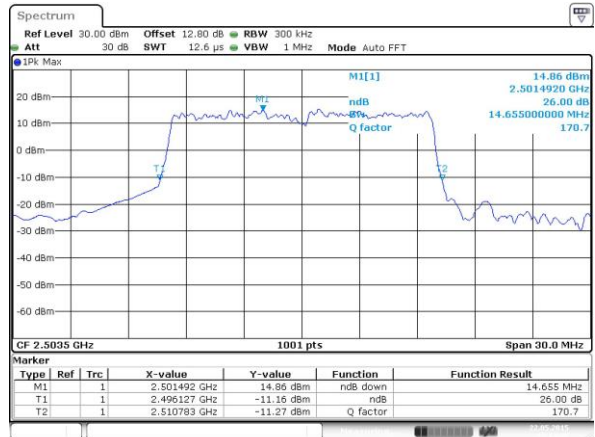
LTE Band 41

Lowest Channel / 15MHz / QPSK



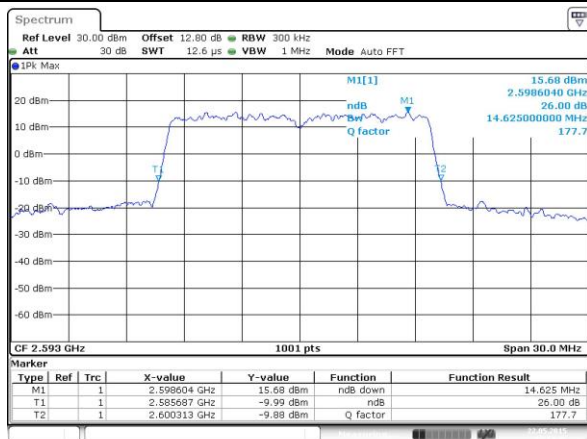
Date: 22 MAY 2015 15:12:56

Lowest Channel / 15MHz / 16QAM



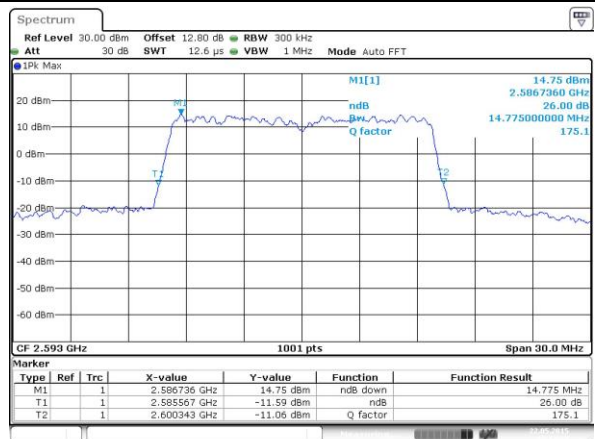
Date: 22 MAY 2015 15:13:08

Middle Channel / 15MHz / QPSK



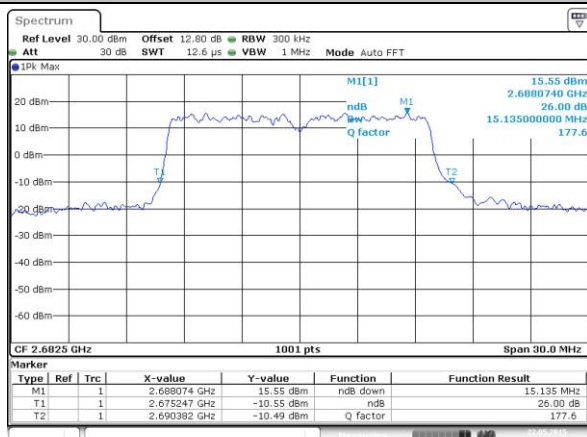
Date: 22 MAY 2015 15:13:42

Middle Channel / 15MHz / 16QAM



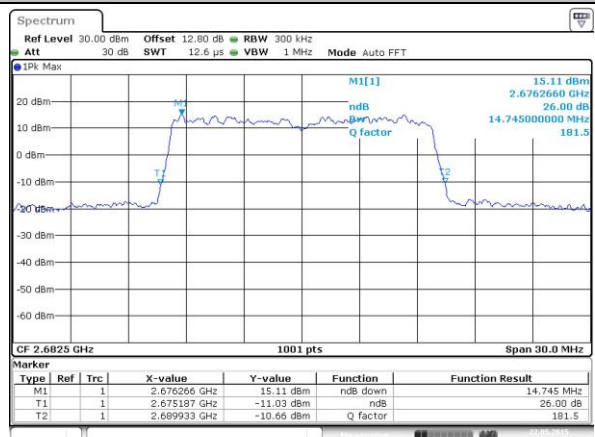
Date: 22 MAY 2015 15:13:55

Highest Channel / 15MHz / QPSK



Date: 22 MAY 2015 15:14:29

Highest Channel / 15MHz / 16QAM

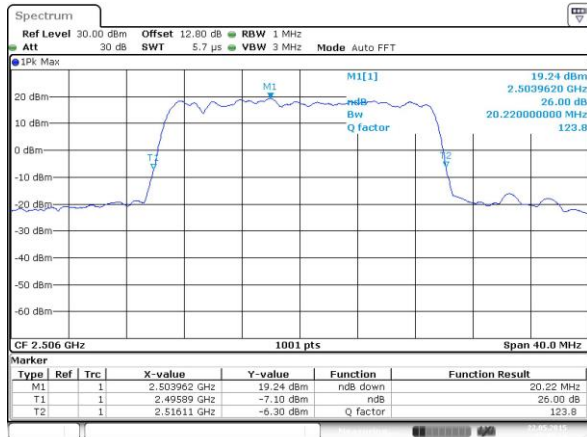


Date: 22 MAY 2015 15:14:42



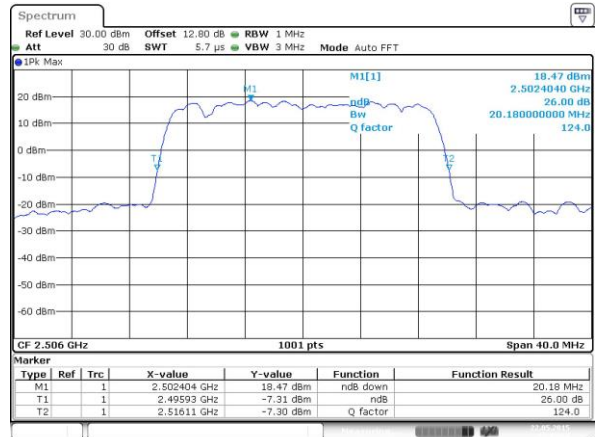
LTE Band 41

Lowest Channel / 20MHz / QPSK



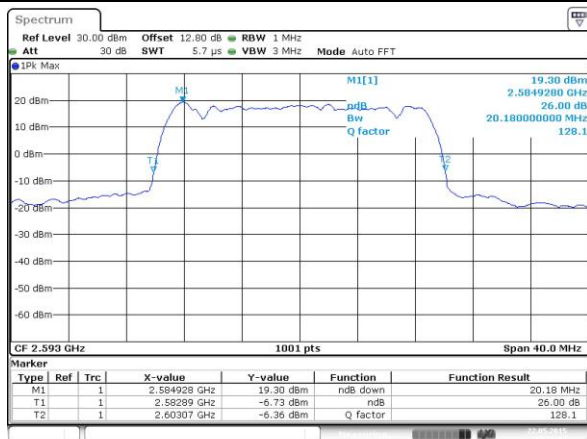
Date: 22 MAY 2015 15:15:16

Lowest Channel / 20MHz / 16QAM



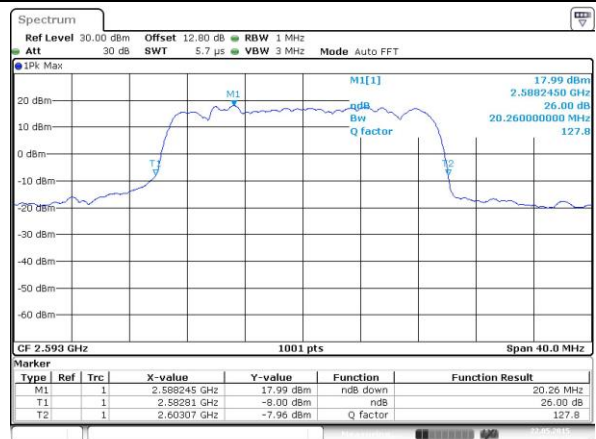
Date: 22 MAY 2015 15:15:29

Middle Channel / 20MHz / QPSK



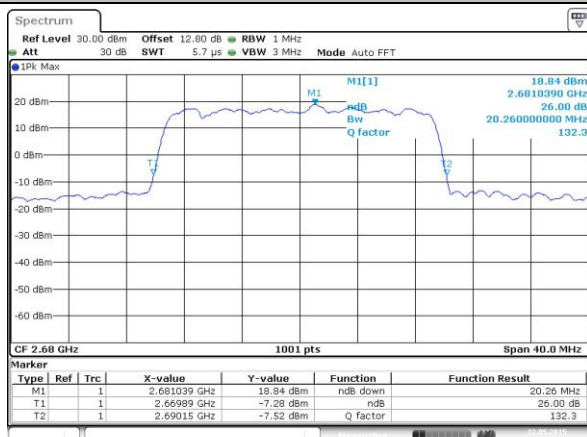
Date: 22 MAY 2015 15:16:03

Middle Channel / 20MHz / 16QAM



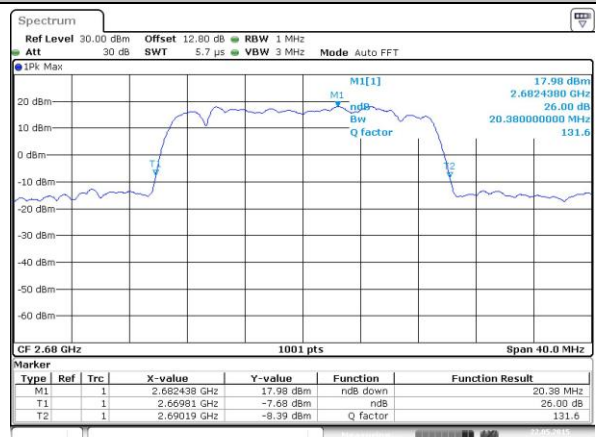
Date: 22 MAY 2015 15:16:16

Highest Channel / 20MHz / QPSK



Date: 22 MAY 2015 15:16:50

Highest Channel / 20MHz / 16QAM



Date: 22 MAY 2015 15:17:03



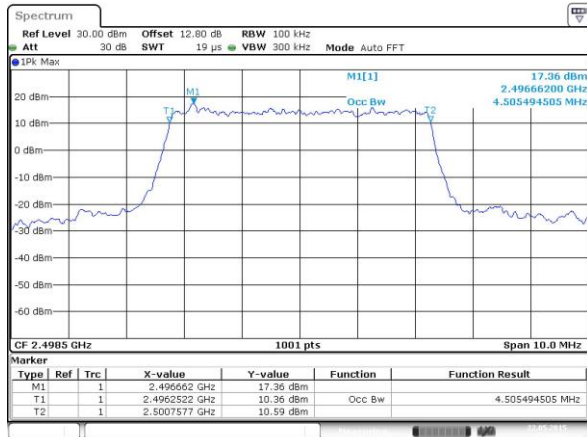
Occupied Bandwidth

Mode	LTE Band 41 : 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	4.50	9.07	9.05	13.43	13.49	18.34	18.34
Middle CH	-	-	-	-	4.51	4.51	9.01	9.03	13.43	13.49	18.30	18.42
Highest CH	-	-	-	-	4.51	4.51	9.07	9.03	13.40	13.49	18.46	18.38

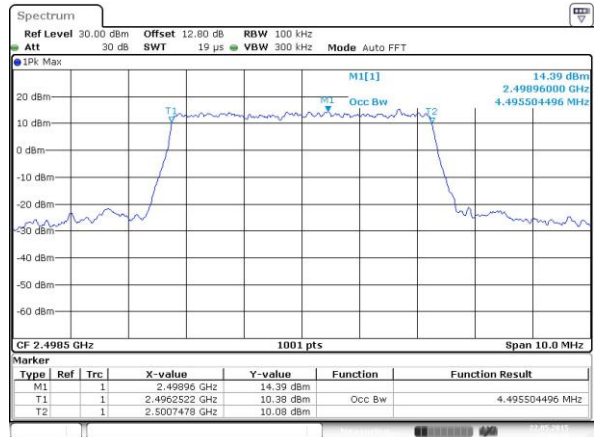


LTE Band 41

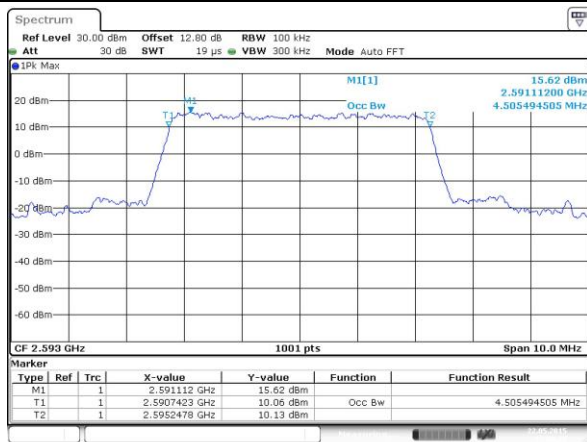
Lowest Channel / 5MHz / QPSK



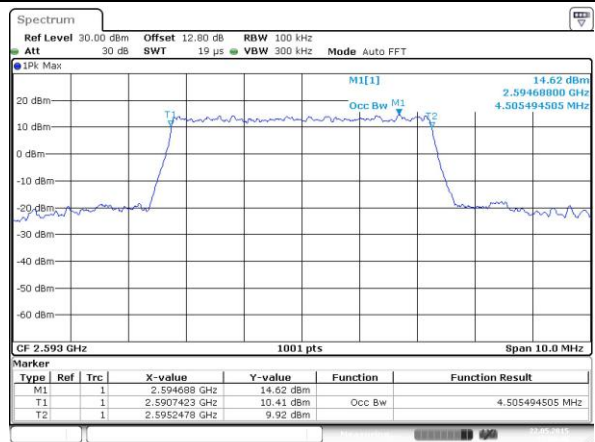
Lowest Channel / 5MHz / 16QAM



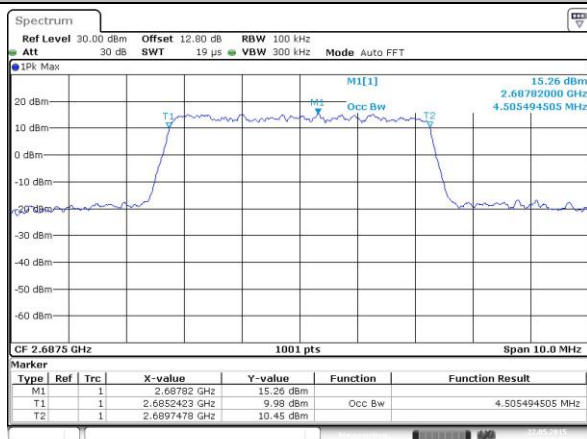
Middle Channel / 5MHz / QPSK



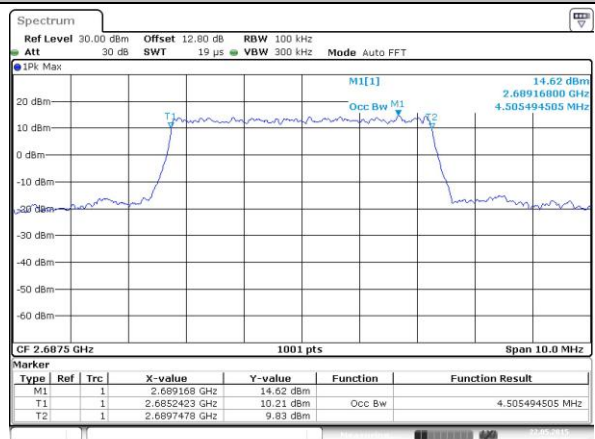
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



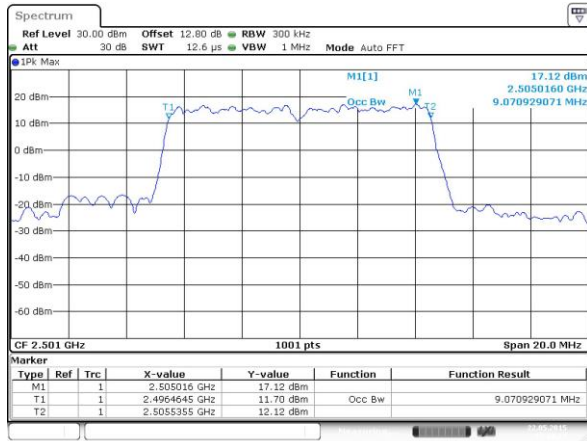
Highest Channel / 5MHz / 16QAM



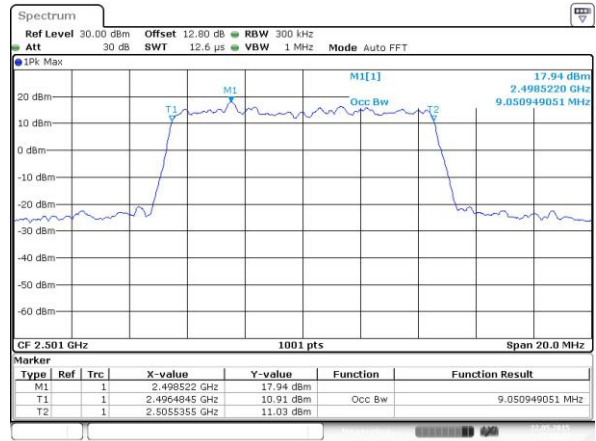


LTE Band 41

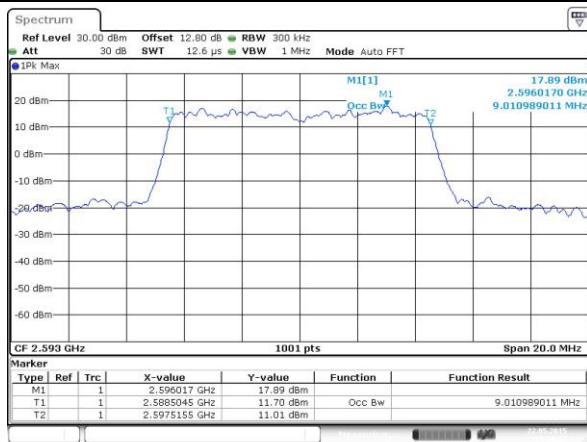
Lowest Channel / 10MHz / QPSK



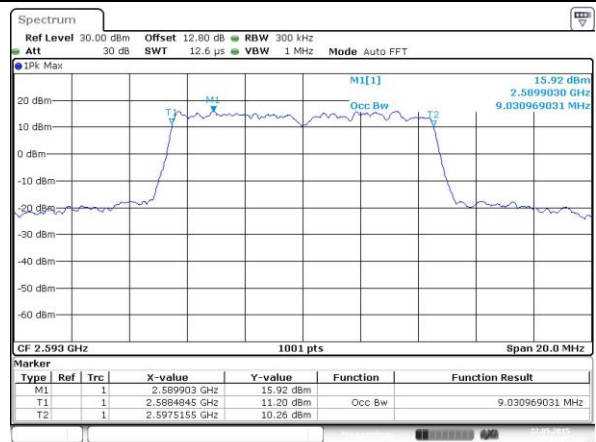
Lowest Channel / 10MHz / 16QAM



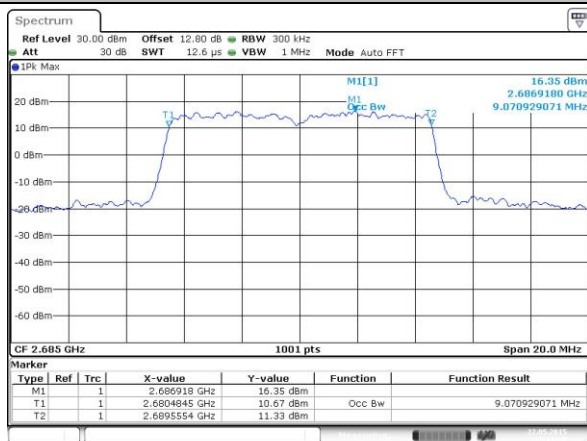
Middle Channel / 10MHz / QPSK



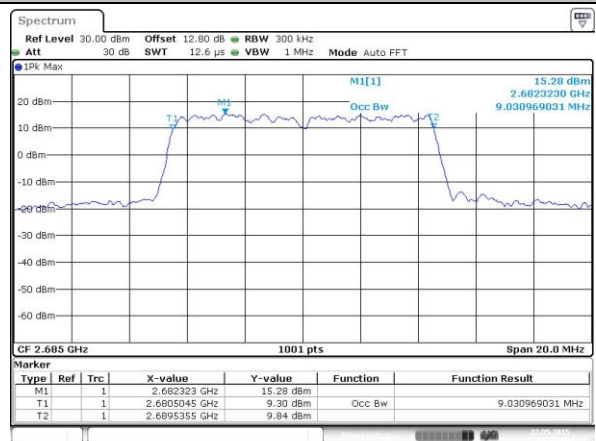
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



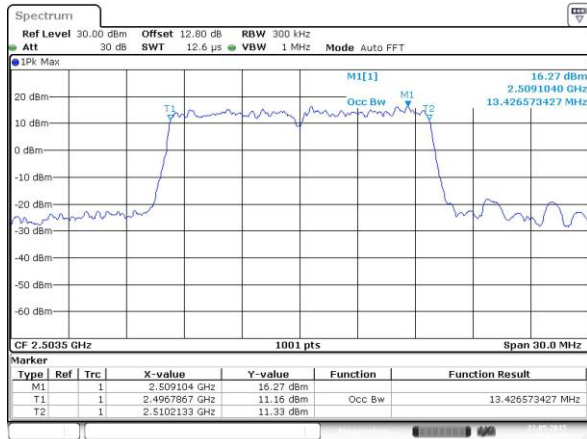
Highest Channel / 10MHz / 16QAM



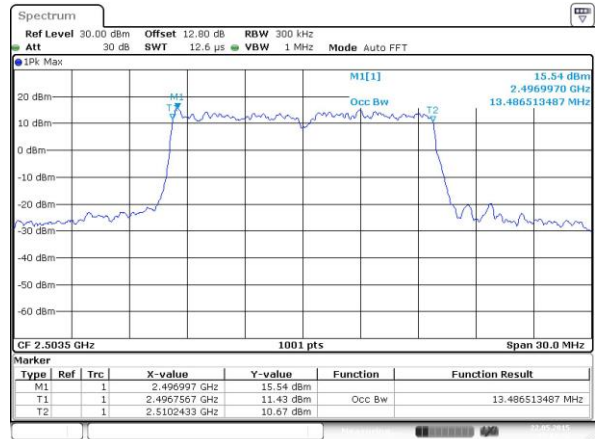


LTE Band 41

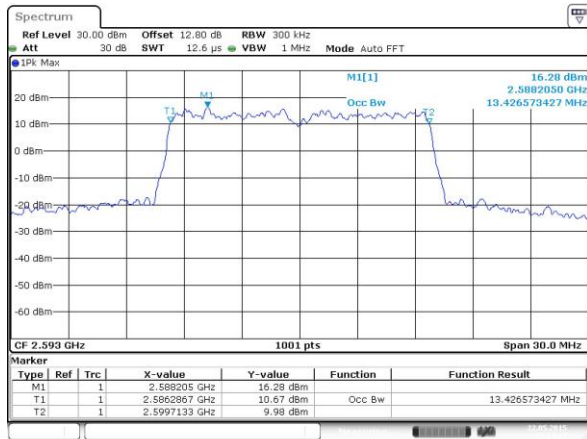
Lowest Channel / 15MHz / QPSK



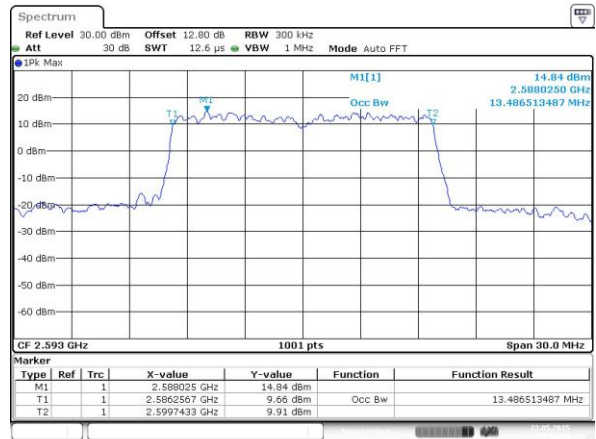
Lowest Channel / 15MHz / 16QAM



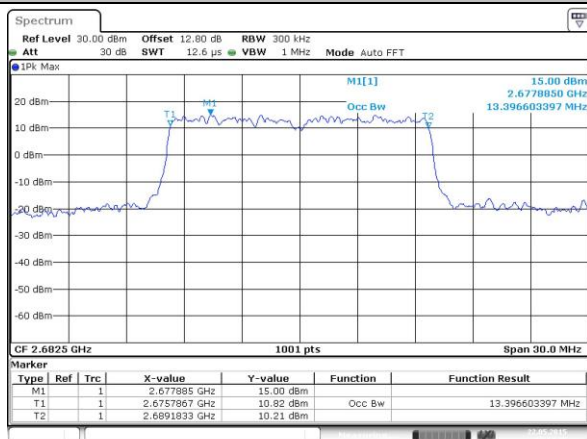
Middle Channel / 15MHz / QPSK



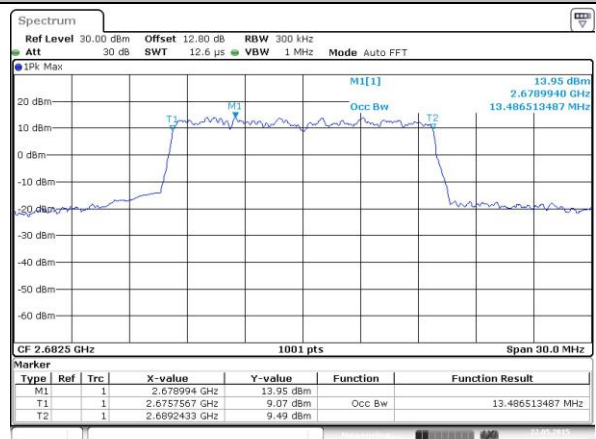
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



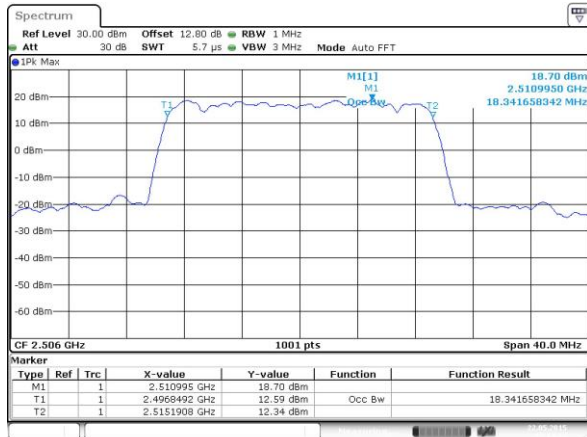
Highest Channel / 15MHz / 16QAM



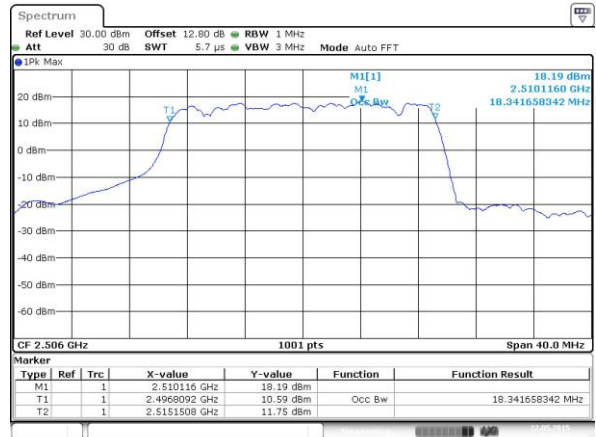


LTE Band 41

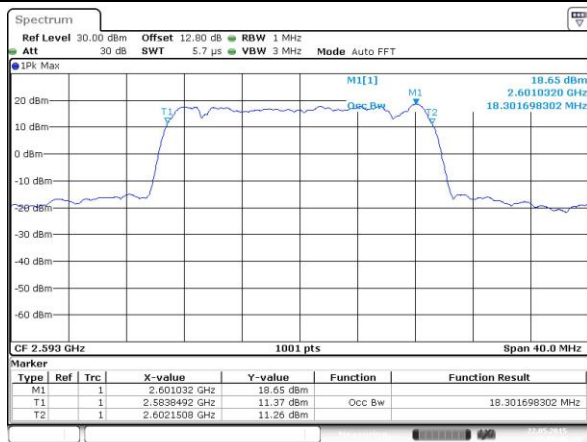
Lowest Channel / 20MHz / QPSK



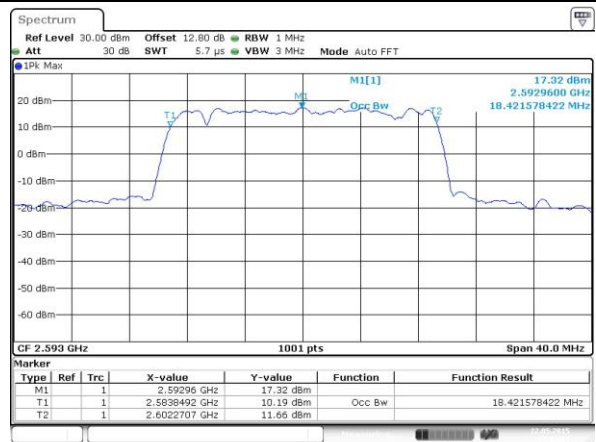
Lowest Channel / 20MHz / 16QAM



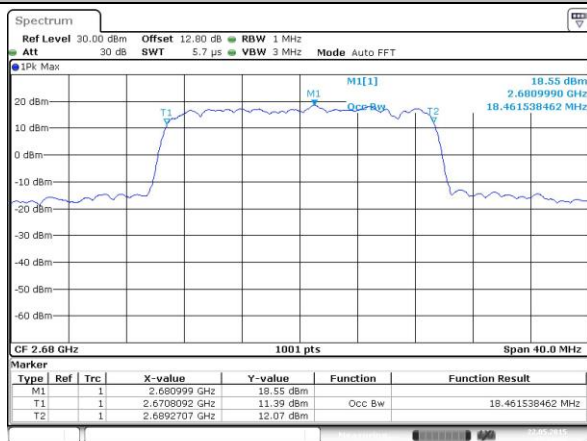
Middle Channel / 20MHz / QPSK



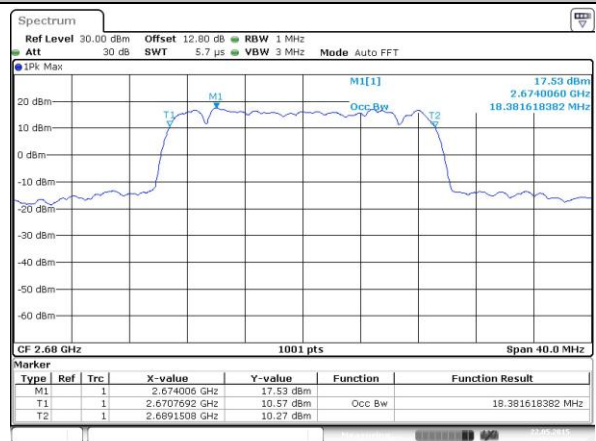
Middle Channel / 20MHz / 16QAM

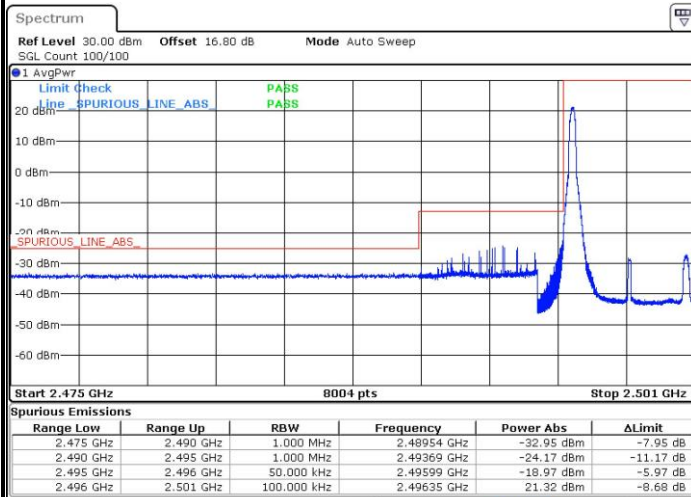
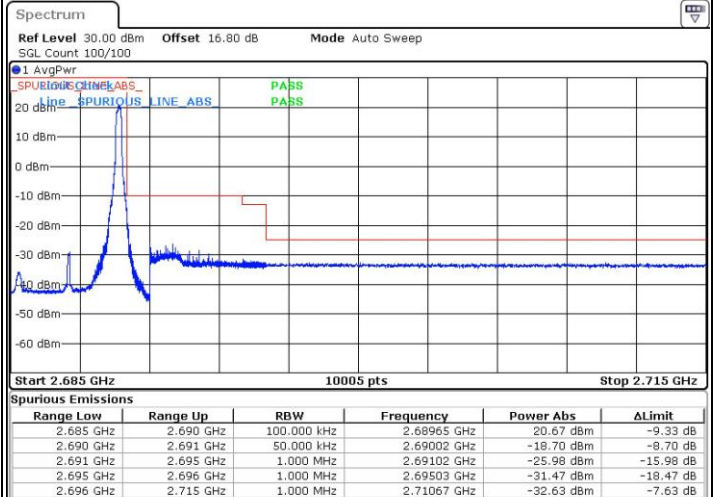
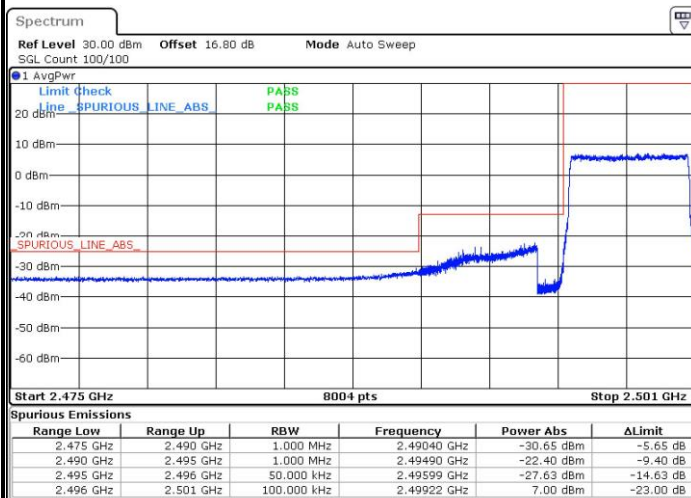
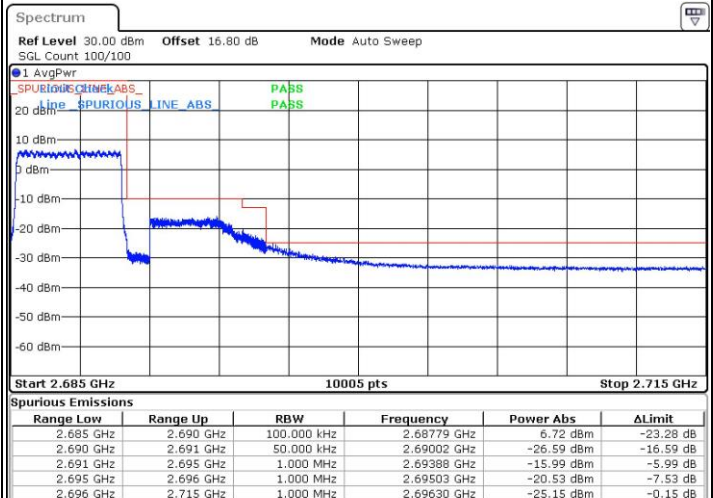


Highest Channel / 20MHz / QPSK



Highest Channel / 20MHz / 16QAM

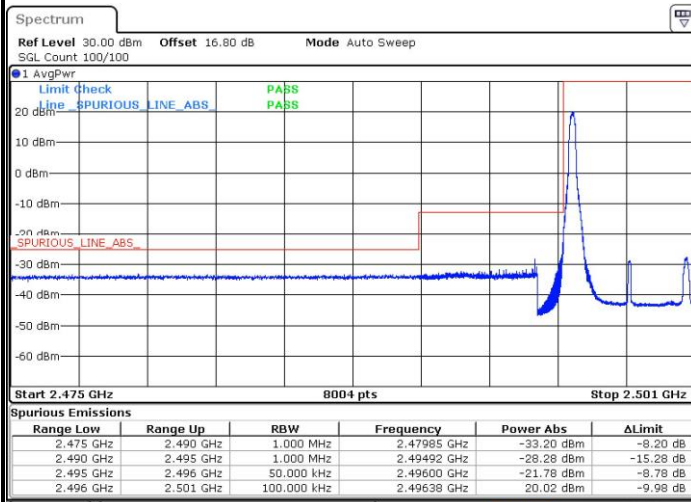


**Conducted Band Edge****LTE Band 41 / 5MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

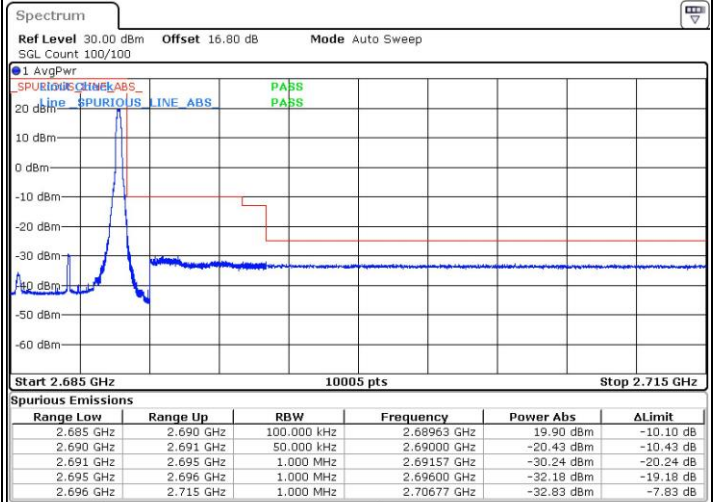


LTE Band 41 / 5MHz / 16QAM

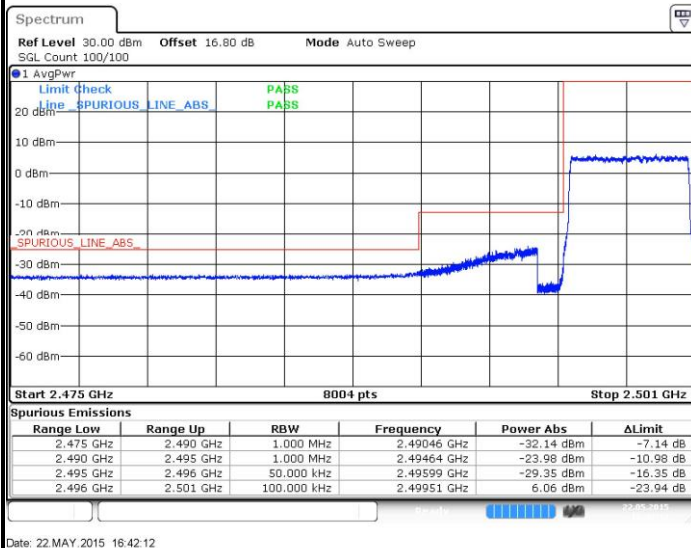
Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

