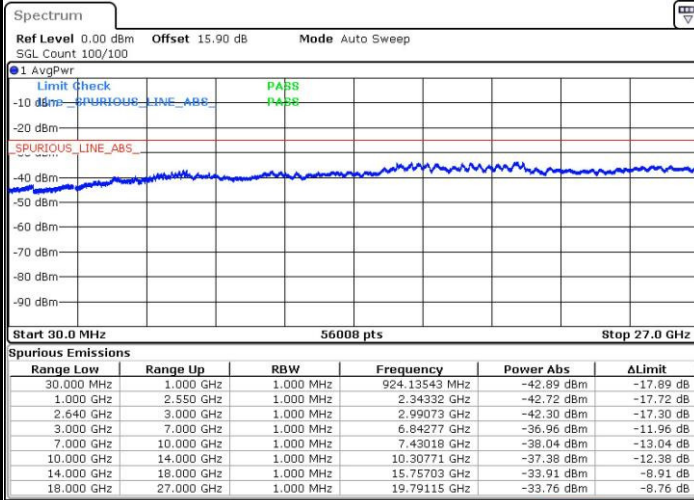




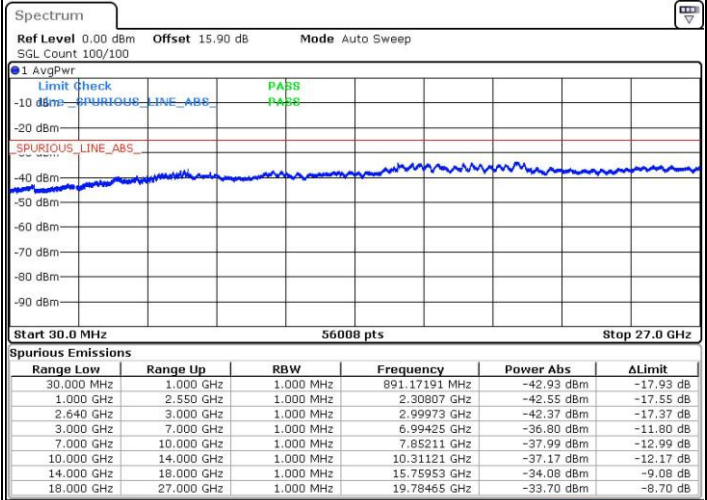
## LTE Band 38 / 20MHz

## Middle Channel / QPSK



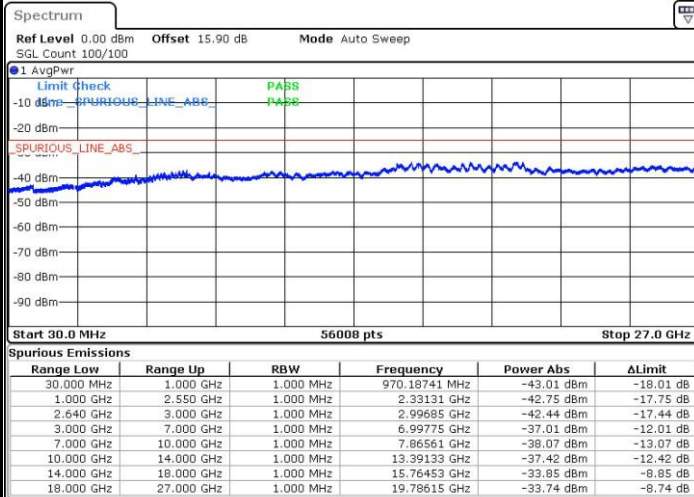
Date: 22 MAR 2017 22:06:47

## Middle Channel / 16QAM



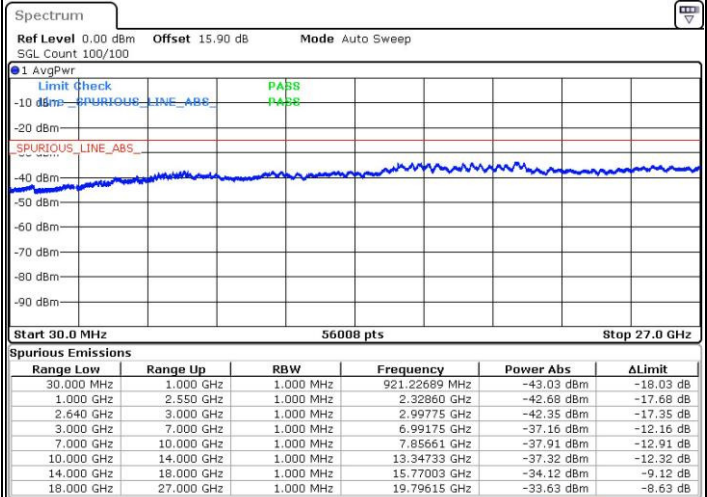
Date: 22 MAR 2017 22:07:42

## Highest Channel / QPSK



Date: 22 MAR 2017 22:08:36

## Highest Channel / 16QAM



Date: 22 MAR 2017 22:09:31

## Frequency Stability

Test Conditions		LTE Band 38 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0001	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0117	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0123	
-10	Normal Voltage	0.0123	
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0004	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0006	

**Note:**

1. Normal Voltage =3.9 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.3 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 41

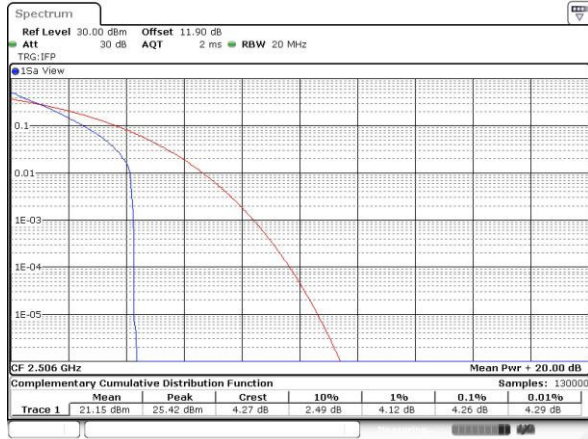
### Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.26	4.93	5.16	5.91	PASS
Middle CH	4.43	4.96	5.16	5.88	
Highest CH	4.12	4.72	5.13	5.8	

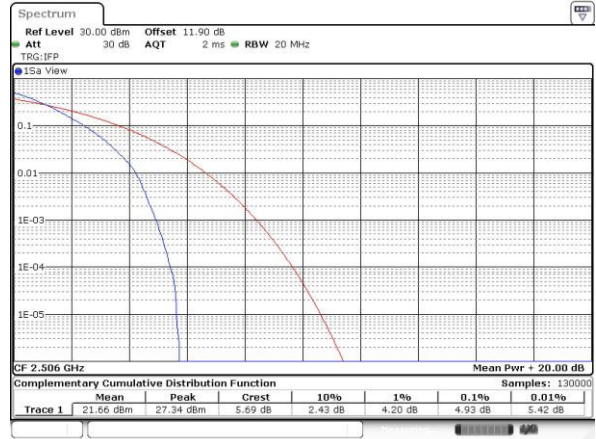


## LTE Band 41 / 20MHz / QPSK

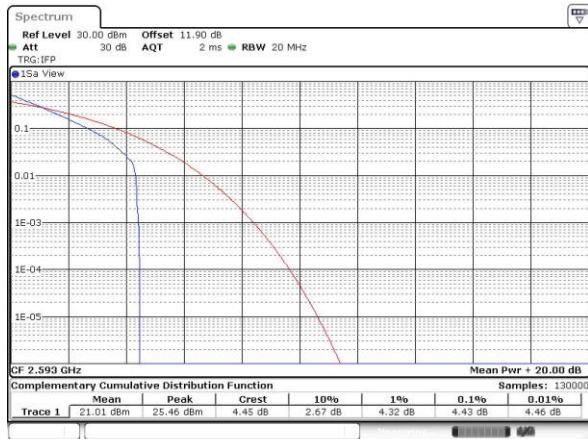
## Lowest Channel / 1RB



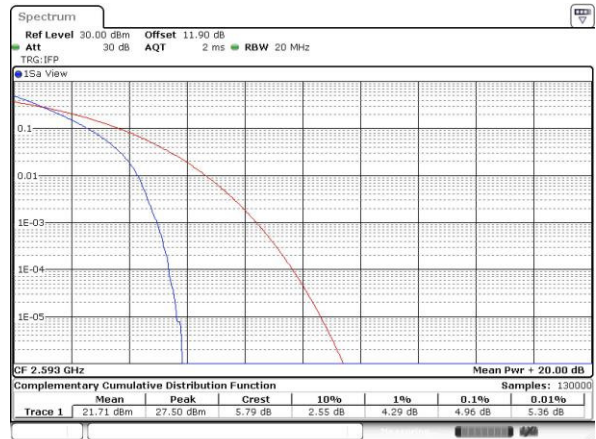
## Lowest Channel / Full RB



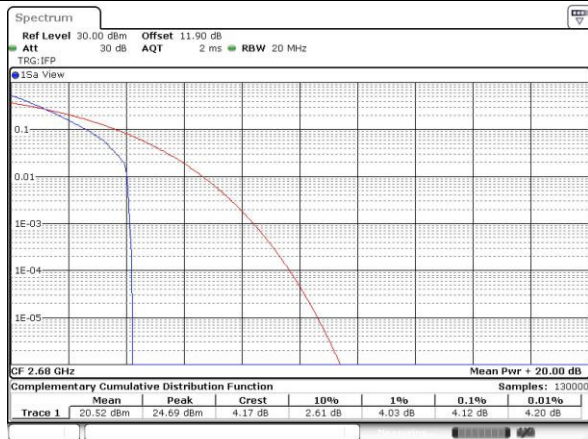
## Middle Channel / 1RB



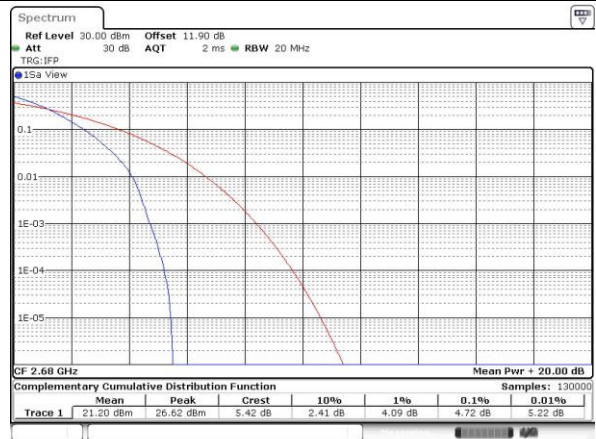
## Middle Channel / Full RB



## Highest Channel / 1RB



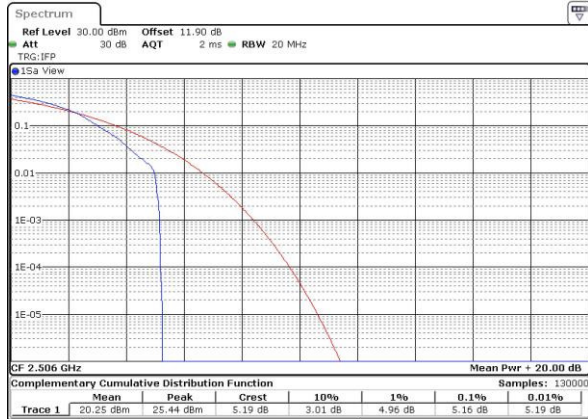
## Highest Channel / Full RB



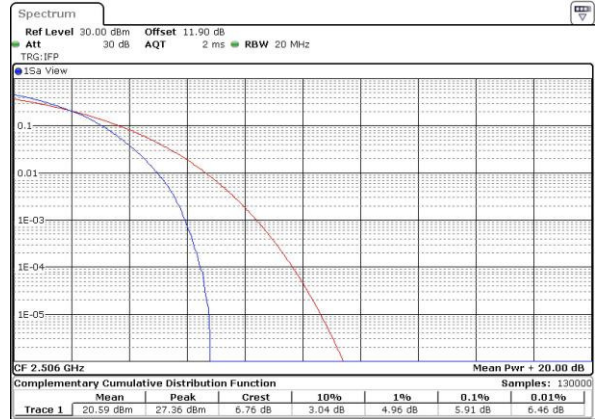


## LTE Band 41 / 20MHz / 16QAM

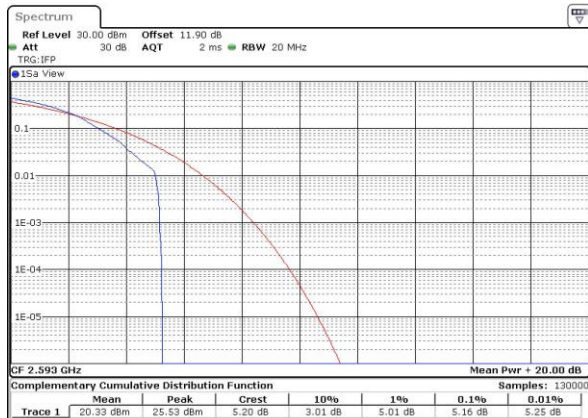
## Lowest Channel / 1RB



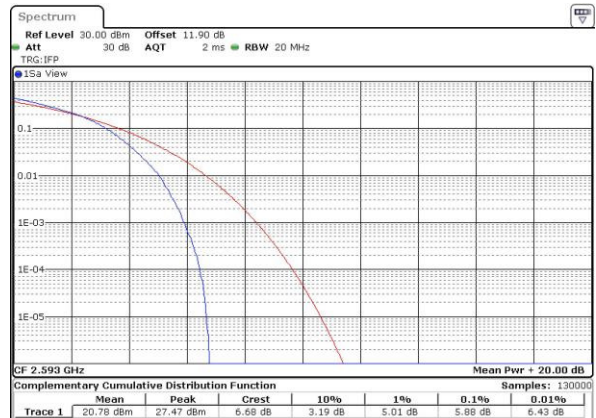
## Lowest Channel / Full RB



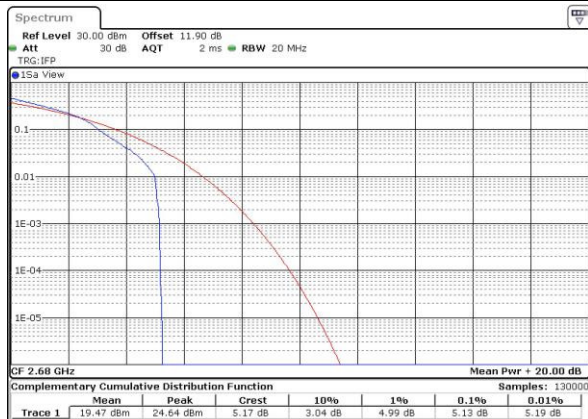
## Middle Channel / 1RB



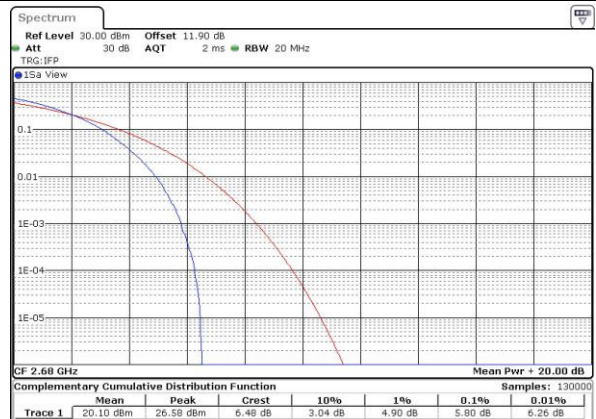
## Middle Channel / Full RB



## Highest Channel / 1RB



## Highest Channel / Full RB



**26dB Bandwidth**

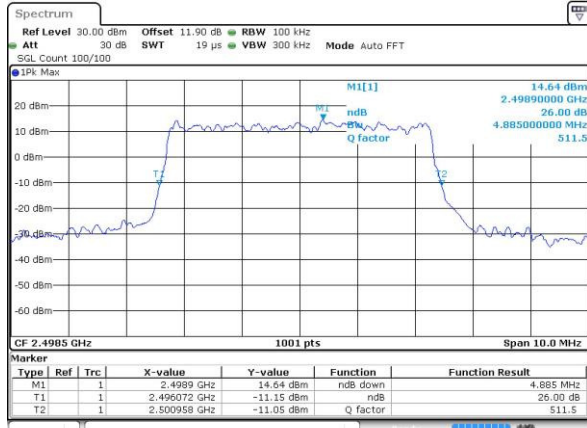
Mode	LTE Band 41 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.89	4.76	9.69	9.71	14.18	14.15	20.02	20.22
Middle CH	-	-	-	-	4.91	4.82	9.63	9.77	14.21	14.42	20.18	19.98
Highest CH	-	-	-	-	4.84	4.80	9.69	9.59	14.21	14.30	20.02	20.02





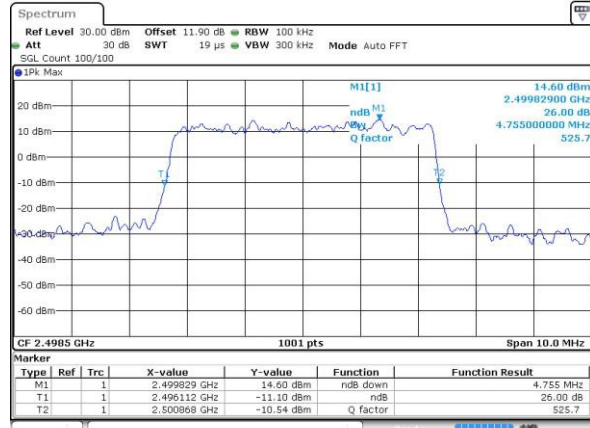
## LTE Band 41

## Lowest Channel / 5MHz / QPSK



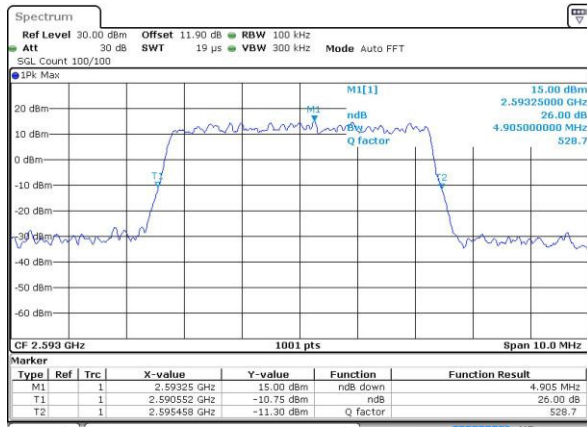
Date: 21 APR 2017 15:32:48

## Lowest Channel / 5MHz / 16QAM



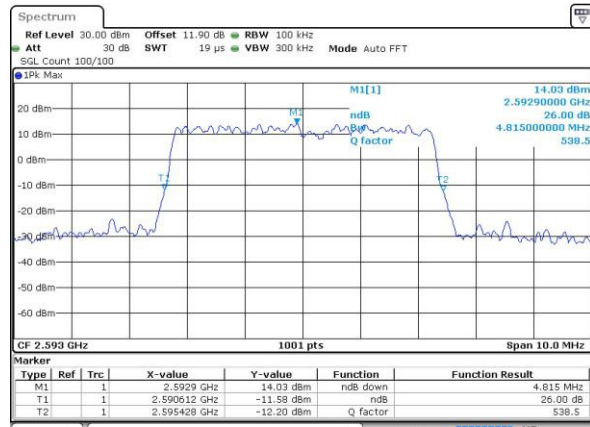
Date: 21 APR 2017 15:32:58

## Middle Channel / 5MHz / QPSK



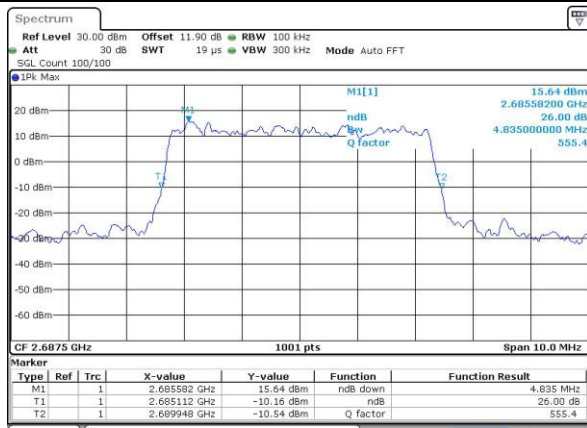
Date: 21 APR 2017 15:33:30

## Middle Channel / 5MHz / 16QAM



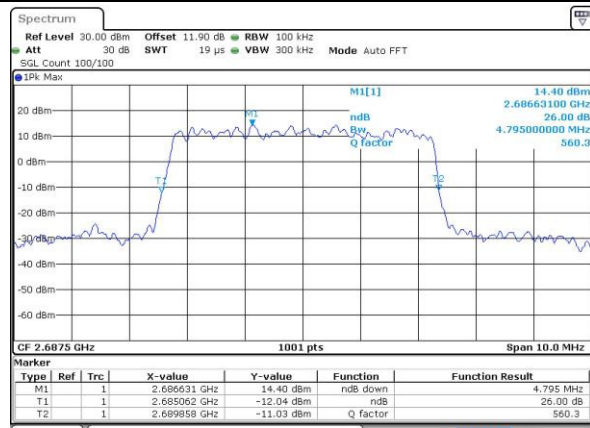
Date: 21 APR 2017 15:33:40

## Highest Channel / 5MHz / QPSK



Date: 21 APR 2017 15:34:11

## Highest Channel / 5MHz / 16QAM

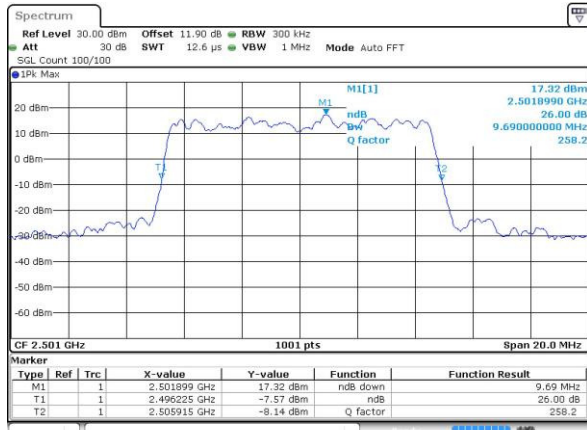


Date: 21 APR 2017 15:34:21

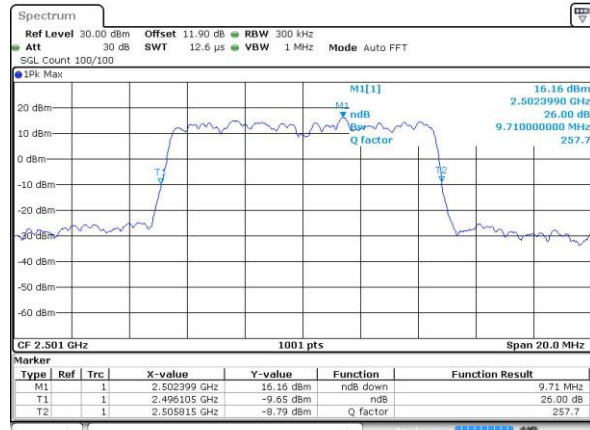


## LTE Band 41

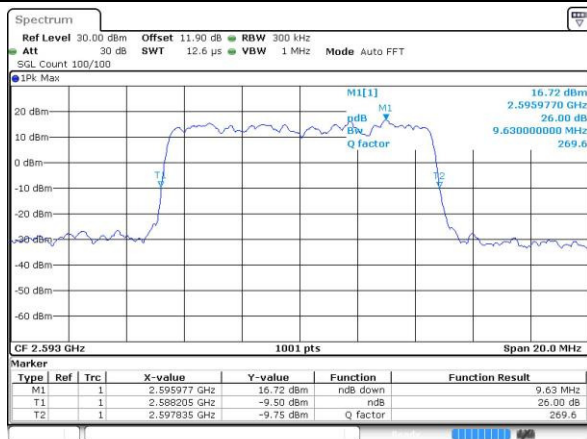
## Lowest Channel / 10MHz / QPSK



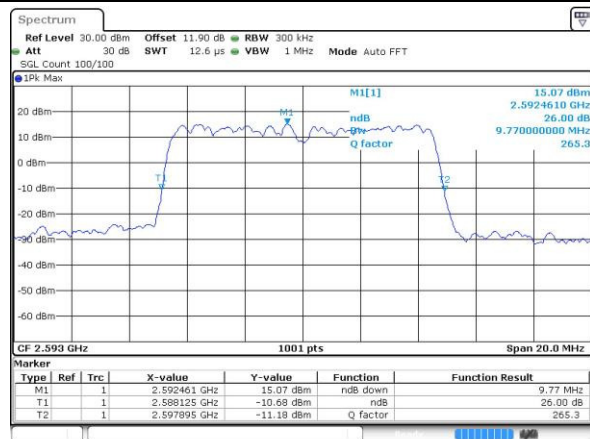
## Lowest Channel / 10MHz / 16QAM



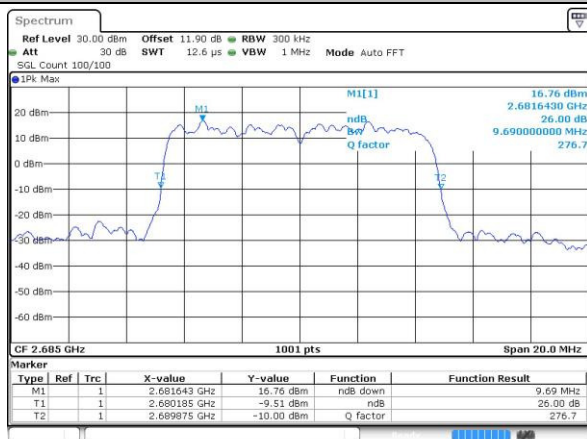
## Middle Channel / 10MHz / QPSK



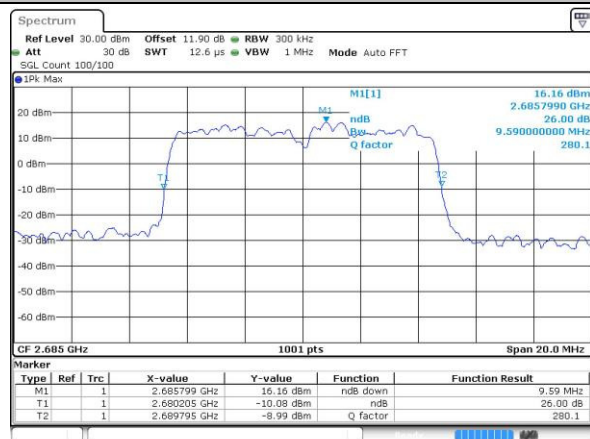
## Middle Channel / 10MHz / 16QAM



## Highest Channel / 10MHz / QPSK



## Highest Channel / 10MHz / 16QAM

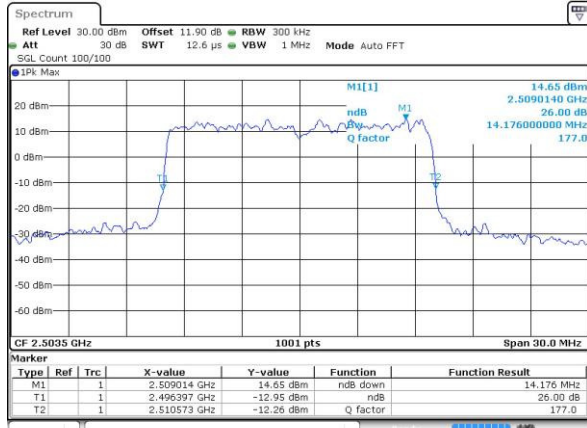




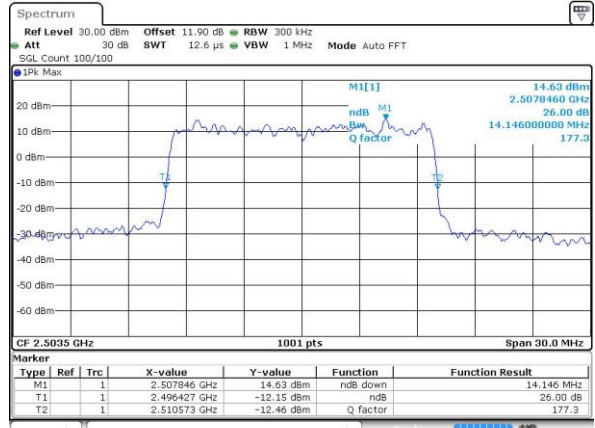


## LTE Band 41

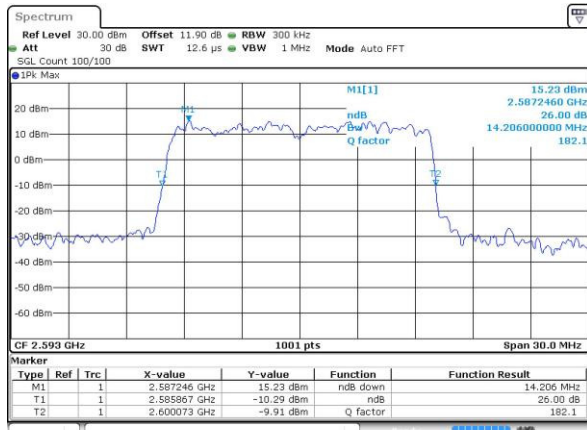
## Lowest Channel / 15MHz / QPSK



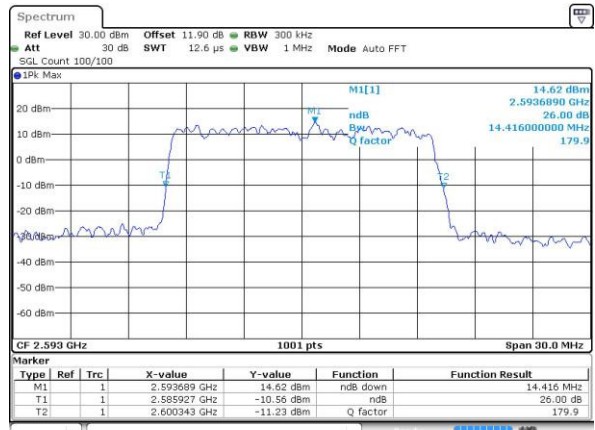
## Lowest Channel / 15MHz / 16QAM



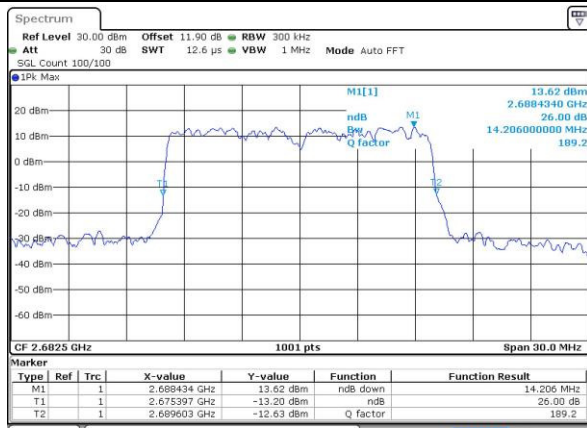
## Middle Channel / 15MHz / QPSK



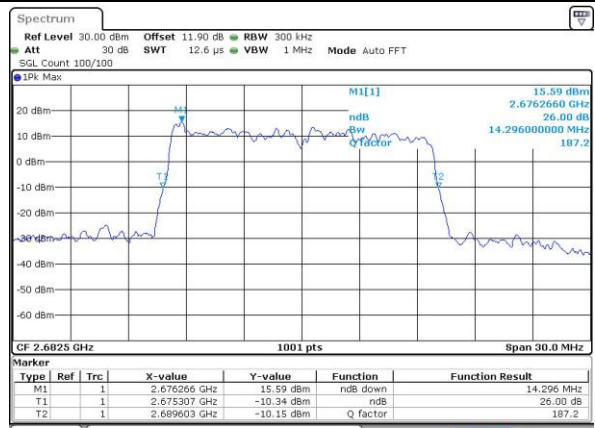
## Middle Channel / 15MHz / 16QAM



## Highest Channel / 15MHz / QPSK



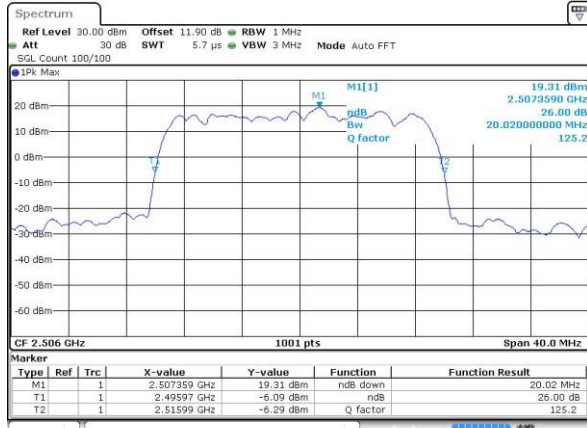
## Highest Channel / 15MHz / 16QAM





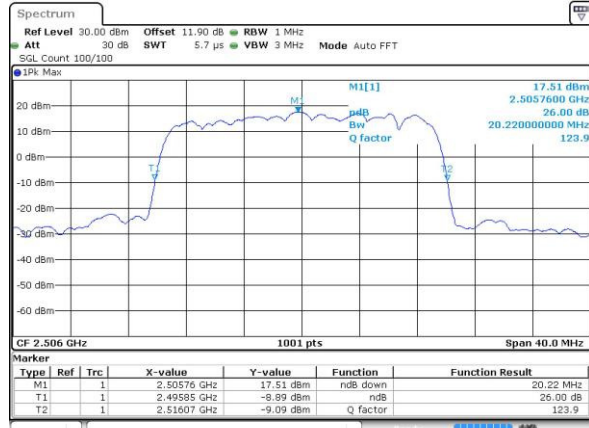
## LTE Band 41

## Lowest Channel / 20MHz / QPSK



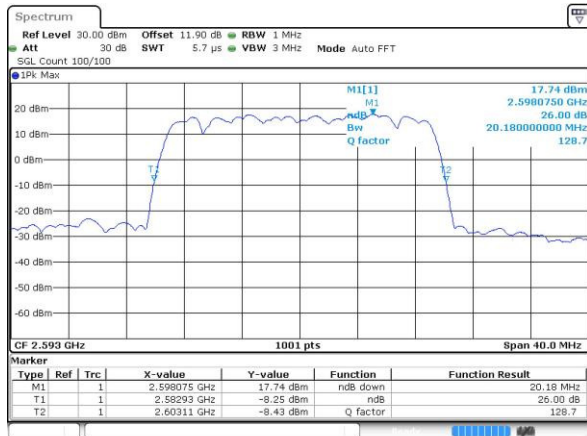
Date: 21 APR 2017 15:39:01

## Lowest Channel / 20MHz / 16QAM



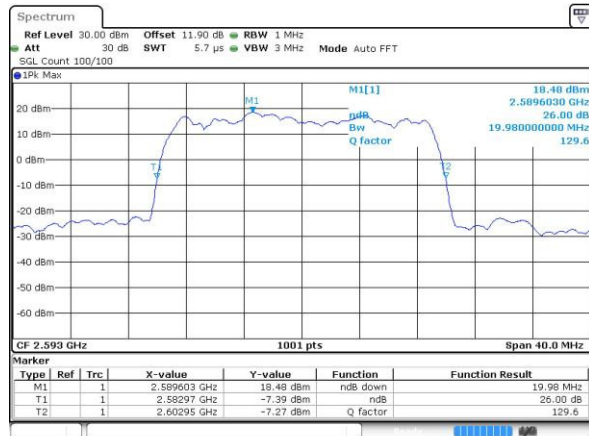
Date: 21 APR 2017 15:39:12

## Middle Channel / 20MHz / QPSK



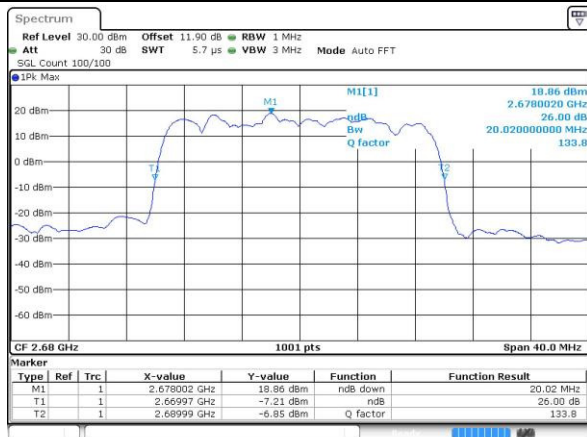
Date: 21 APR 2017 15:39:43

## Middle Channel / 20MHz / 16QAM



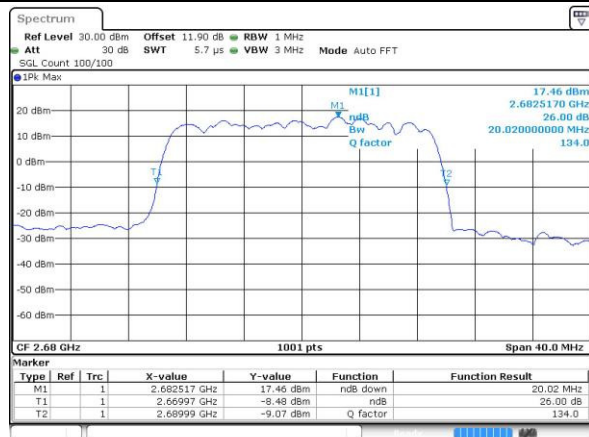
Date: 21 APR 2017 15:39:53

## Highest Channel / 20MHz / QPSK



Date: 21 APR 2017 15:40:24

## Highest Channel / 20MHz / 16QAM



Date: 21 APR 2017 15:40:34

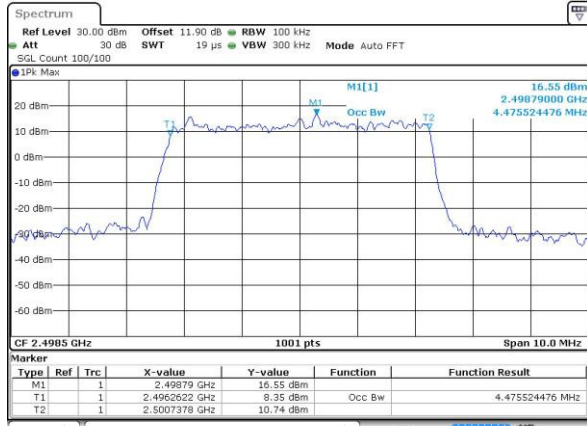
**Occupied Bandwidth**

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	-	-	-	-	4.48	4.5	9.03	9.01	13.46	13.4	18.42	18.3
Middle CH	-	-	-	-	4.5	4.48	8.95	8.99	13.52	13.43	18.22	18.22
Highest CH	-	-	-	-	4.5	4.49	9.07	9.01	13.4	13.49	18.34	18.1



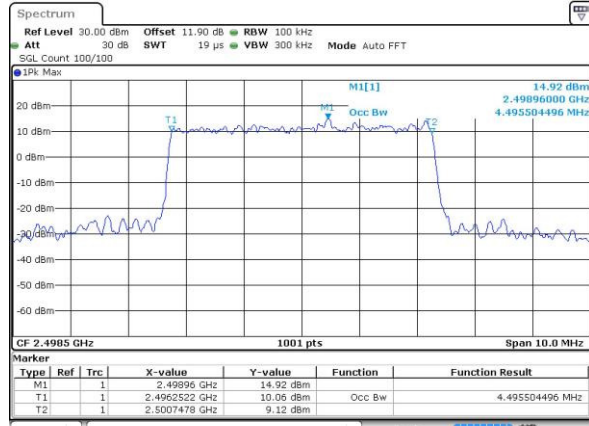
## LTE Band 41

## Lowest Channel / 5MHz / QPSK



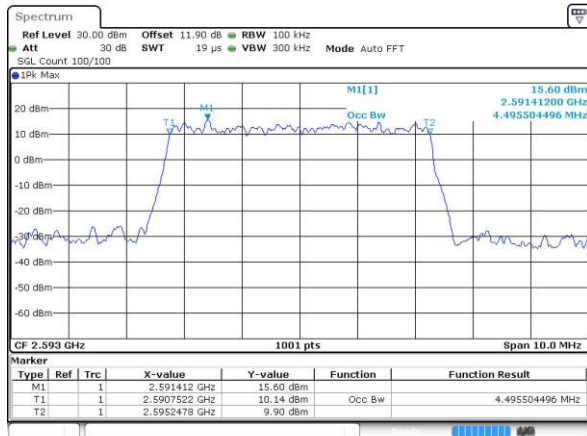
Date: 21 APR 2017 15:32:27

## Lowest Channel / 5MHz / 16QAM



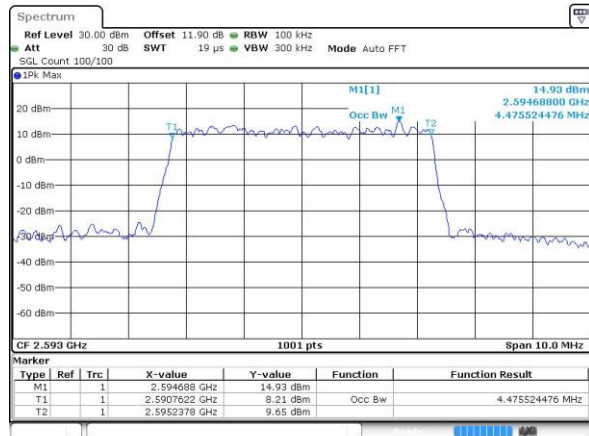
Date: 21 APR 2017 15:32:38

## Middle Channel / 5MHz / QPSK



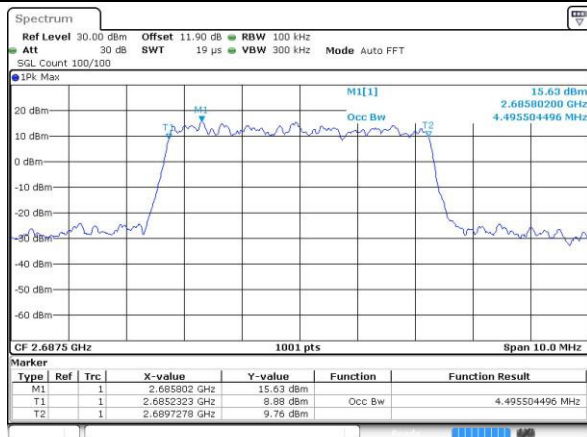
Date: 21 APR 2017 15:33:09

## Middle Channel / 5MHz / 16QAM



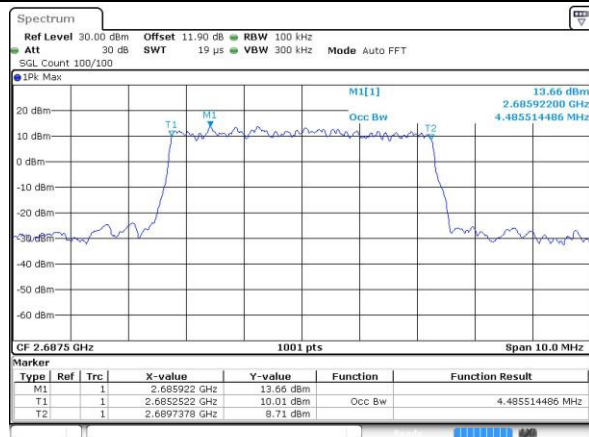
Date: 21 APR 2017 15:33:19

## Highest Channel / 5MHz / QPSK



Date: 21 APR 2017 15:33:50

## Highest Channel / 5MHz / 16QAM

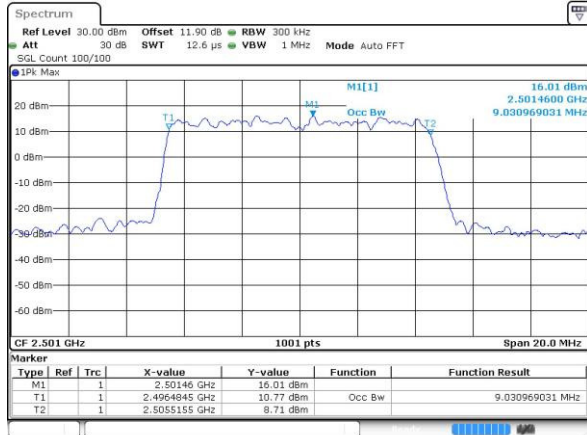


Date: 21 APR 2017 15:34:01



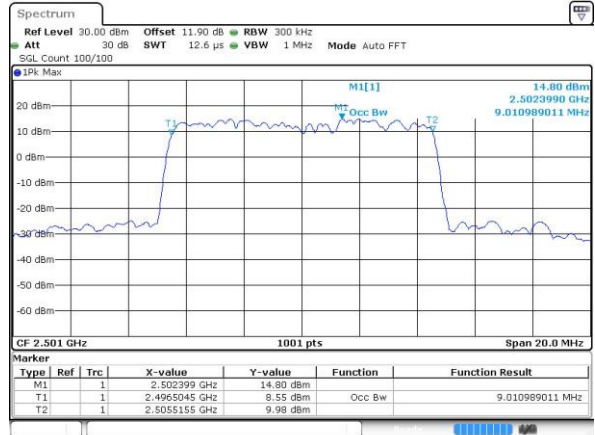
## LTE Band 41

## Lowest Channel / 10MHz / QPSK



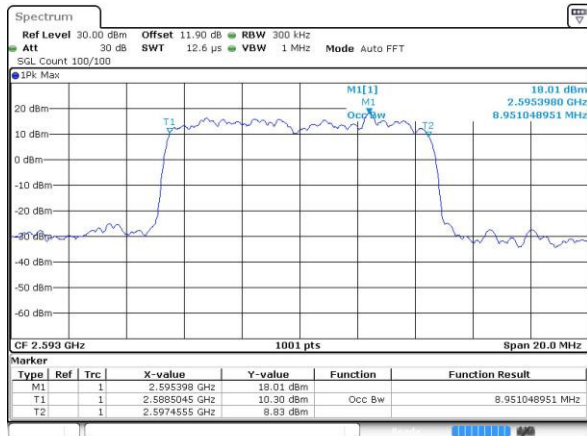
Date: 21 APR 2017 15:34:32

## Lowest Channel / 10MHz / 16QAM



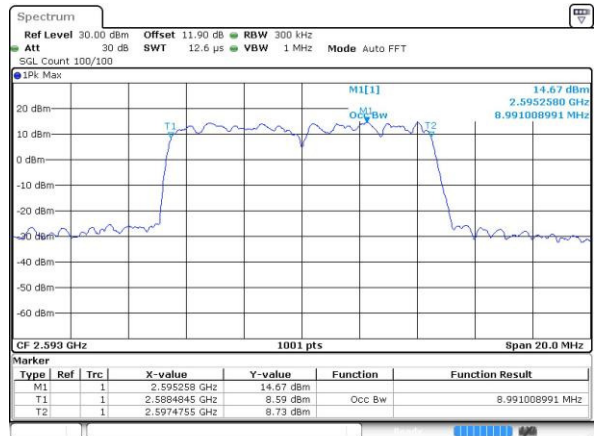
Date: 21 APR 2017 15:34:42

## Middle Channel / 10MHz / QPSK



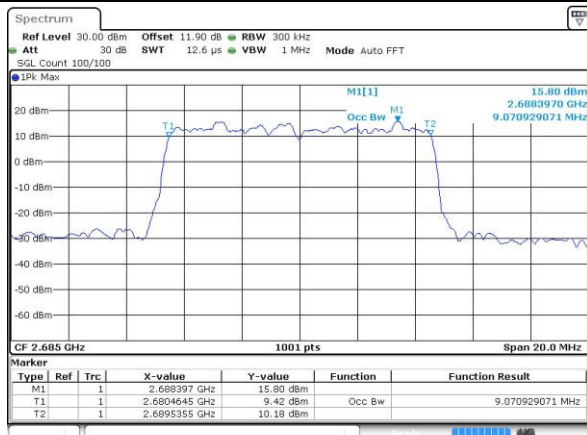
Date: 21 APR 2017 15:35:13

## Middle Channel / 10MHz / 16QAM



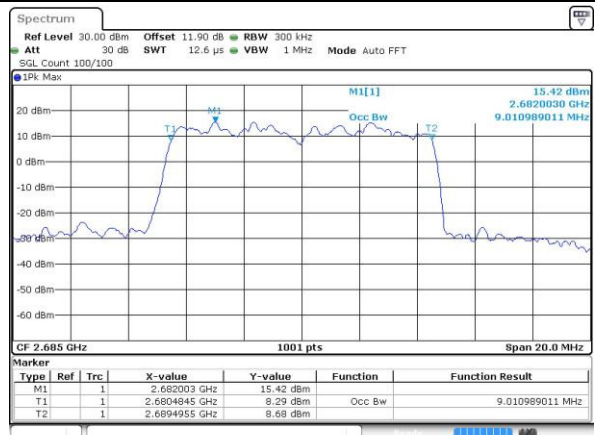
Date: 21 APR 2017 15:35:24

## Highest Channel / 10MHz / QPSK



Date: 21 APR 2017 15:35:55

## Highest Channel / 10MHz / 16QAM

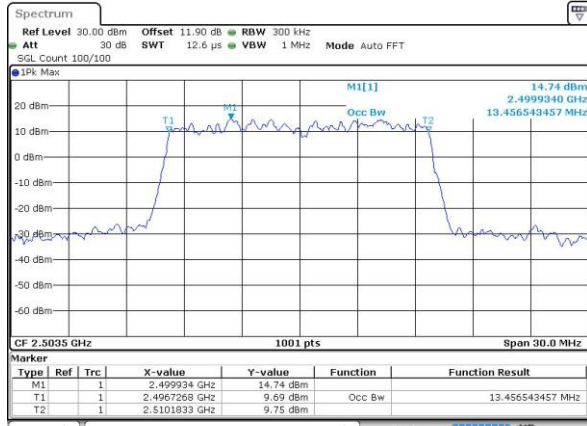


Date: 21 APR 2017 15:36:05



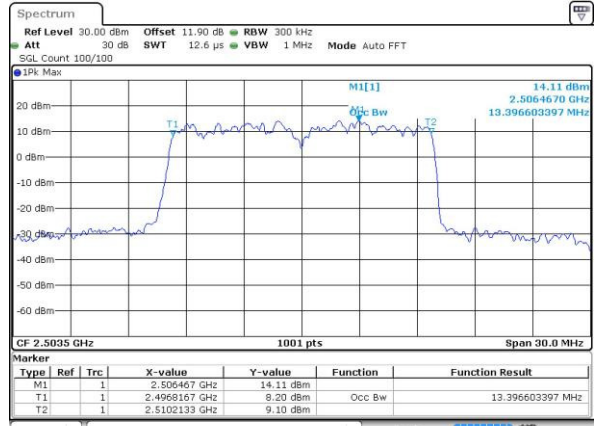
## LTE Band 41

## Lowest Channel / 15MHz / QPSK



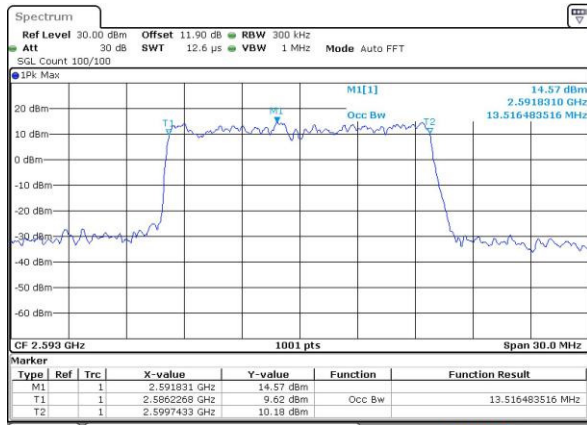
Date: 21 APR 2017 15:36:36

## Lowest Channel / 15MHz / 16QAM



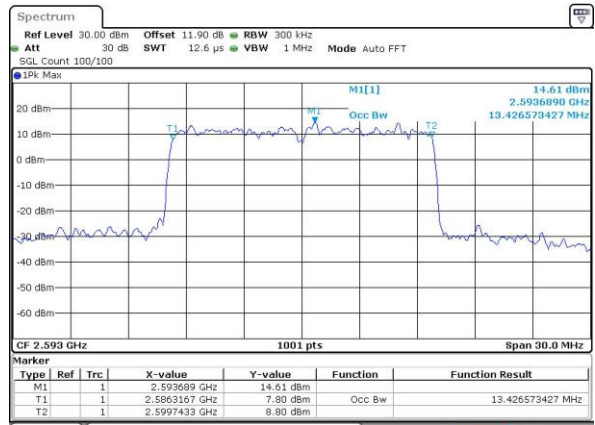
Date: 21 APR 2017 15:36:46

## Middle Channel / 15MHz / QPSK



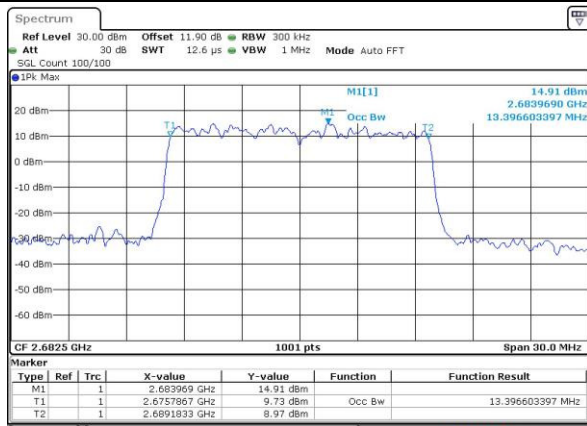
Date: 21 APR 2017 15:37:17

## Middle Channel / 15MHz / 16QAM



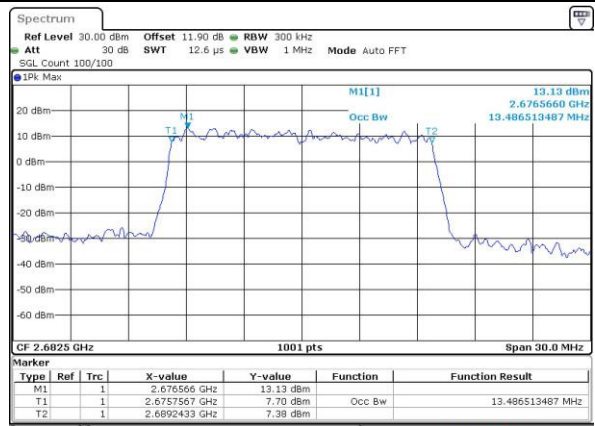
Date: 21 APR 2017 15:37:28

## Highest Channel / 15MHz / QPSK



Date: 21 APR 2017 15:37:59

## Highest Channel / 15MHz / 16QAM



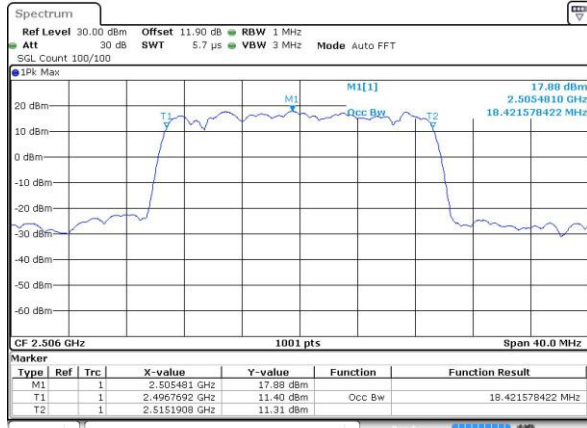
Date: 21 APR 2017 15:38:09





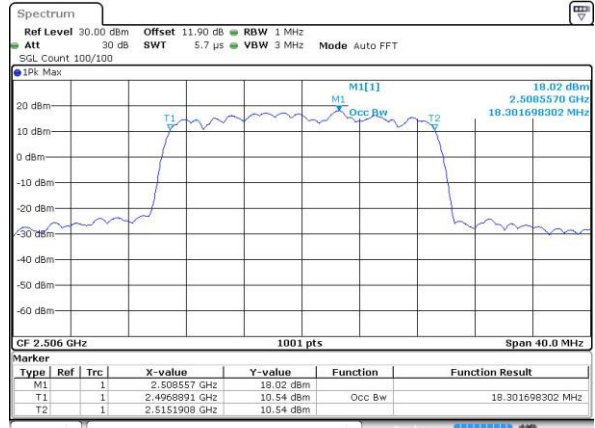
## LTE Band 41

## Lowest Channel / 20MHz / QPSK



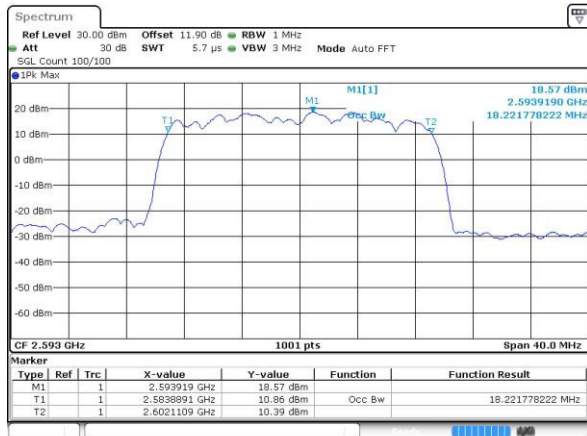
Date: 21 APR 2017 15:38:41

## Lowest Channel / 20MHz / 16QAM



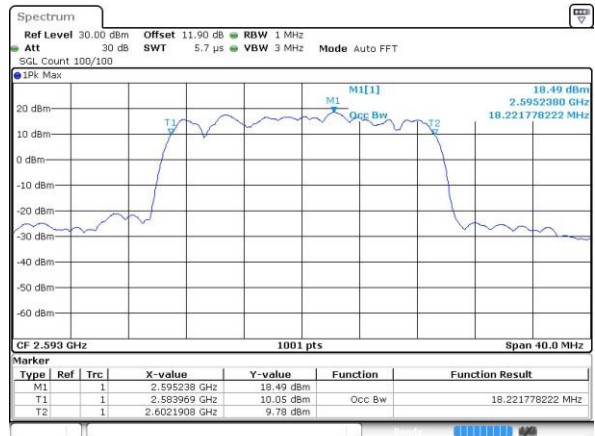
Date: 21 APR 2017 15:38:51

## Middle Channel / 20MHz / QPSK



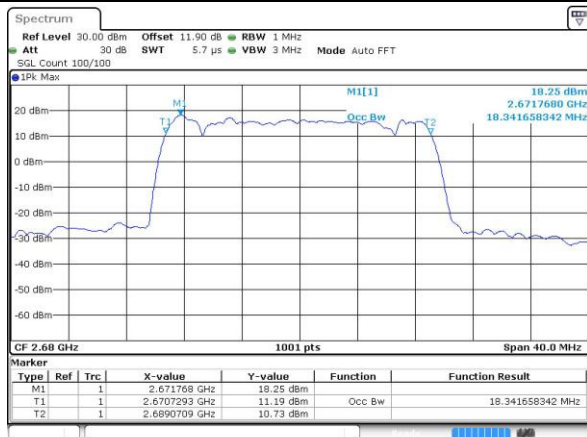
Date: 21 APR 2017 15:39:22

## Middle Channel / 20MHz / 16QAM



Date: 21 APR 2017 15:39:32

## Highest Channel / 20MHz / QPSK

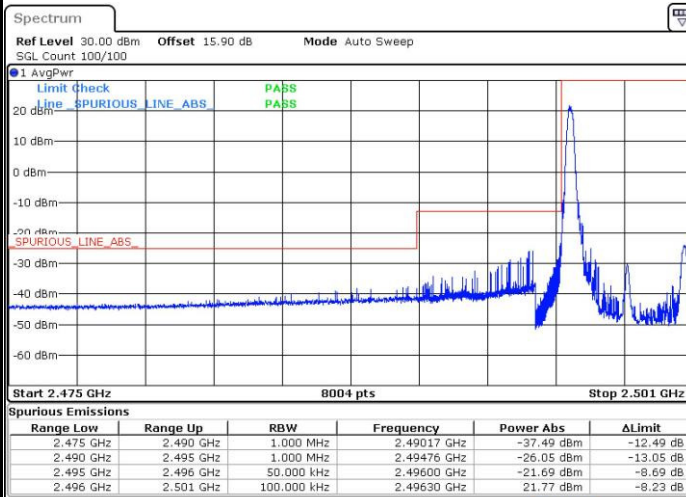
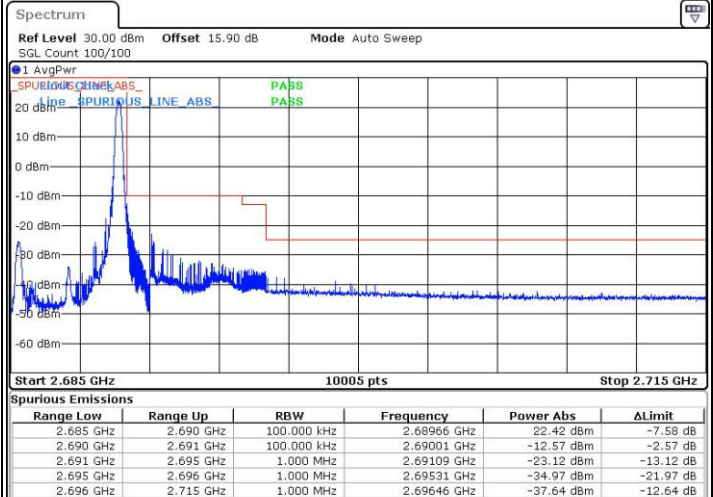
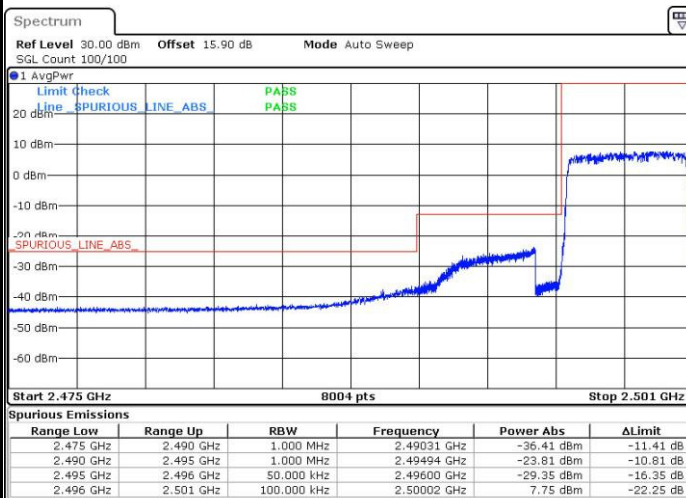
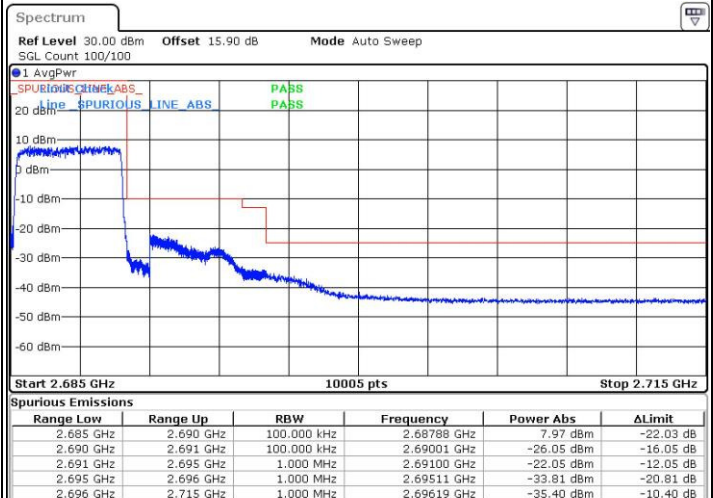


Date: 21 APR 2017 15:40:03

## Highest Channel / 20MHz / 16QAM



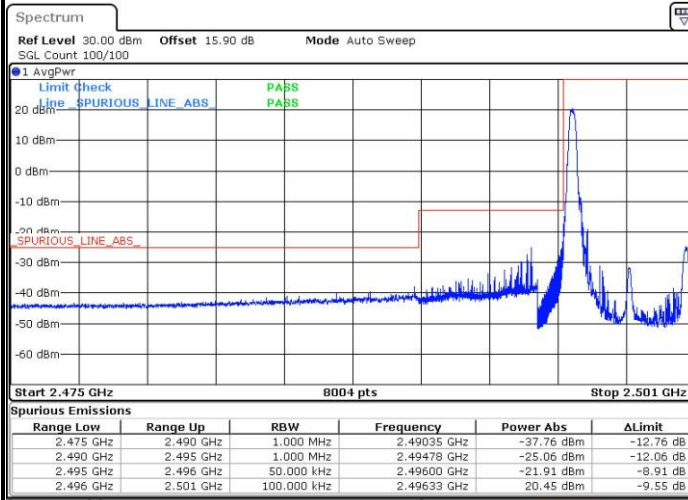
Date: 21 APR 2017 15:40:14

**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**

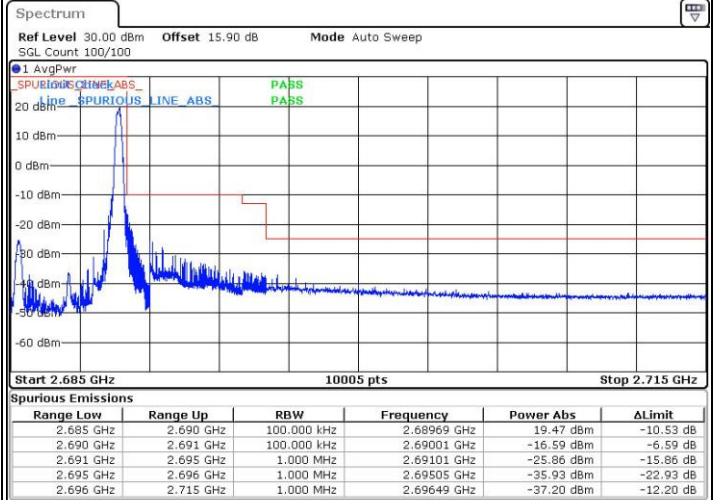


## LTE Band 41 / 5MHz / 16QAM

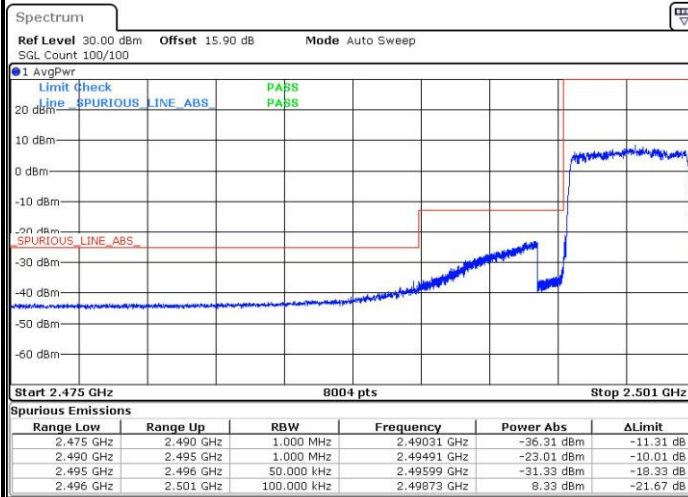
## Lowest Band Edge / 1RB



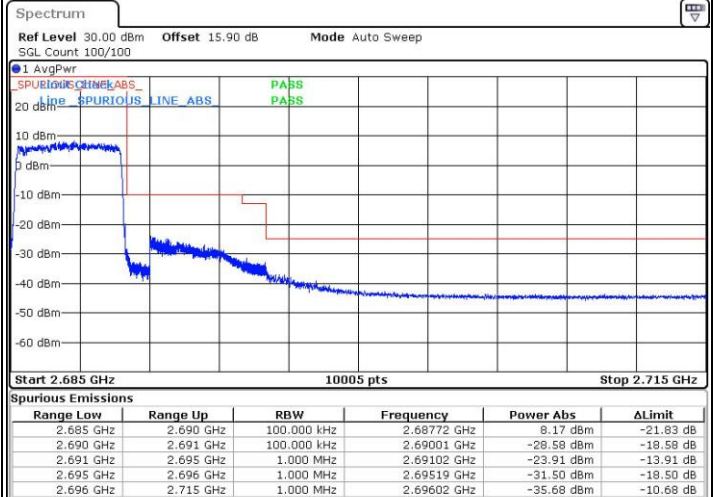
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



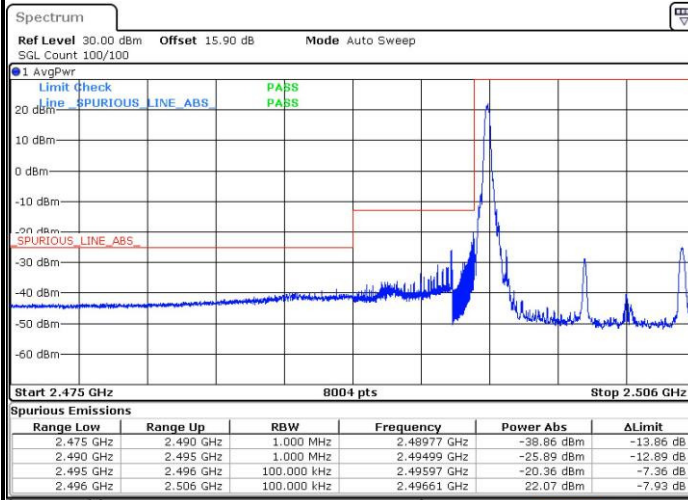
## Highest Band Edge / Full RB



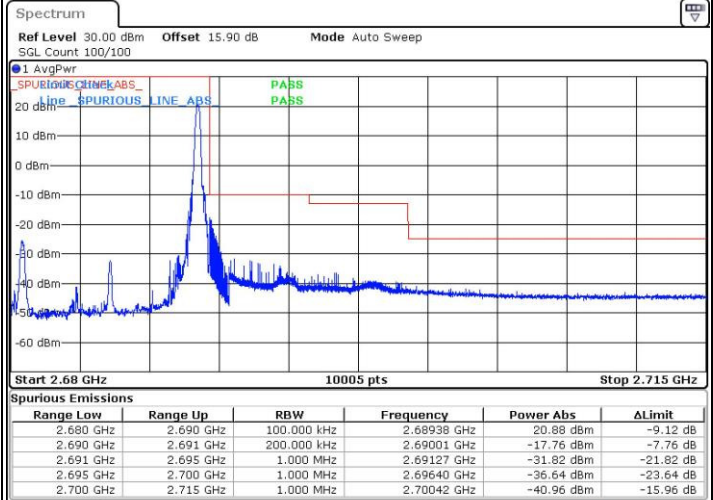


## LTE Band 41 / 10MHz / QPSK

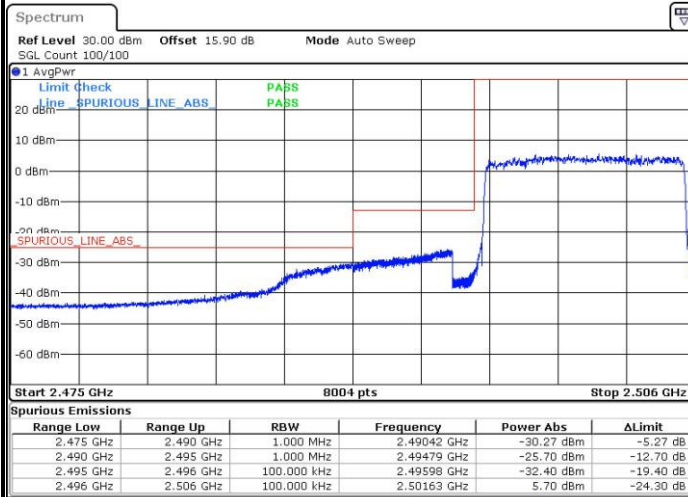
## Lowest Band Edge / 1 RB



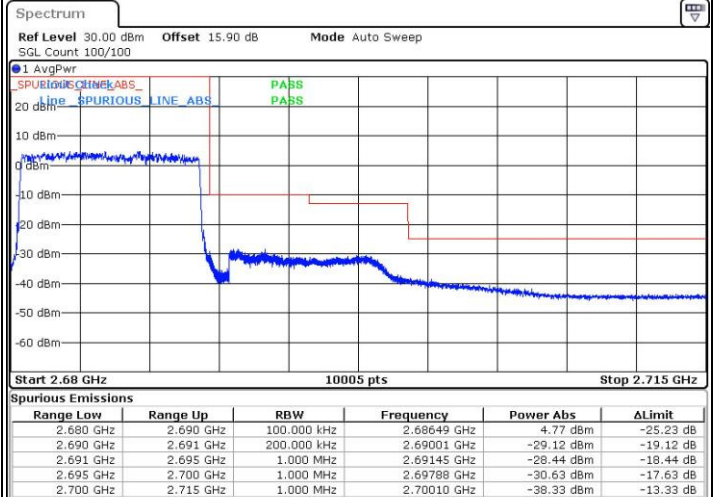
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

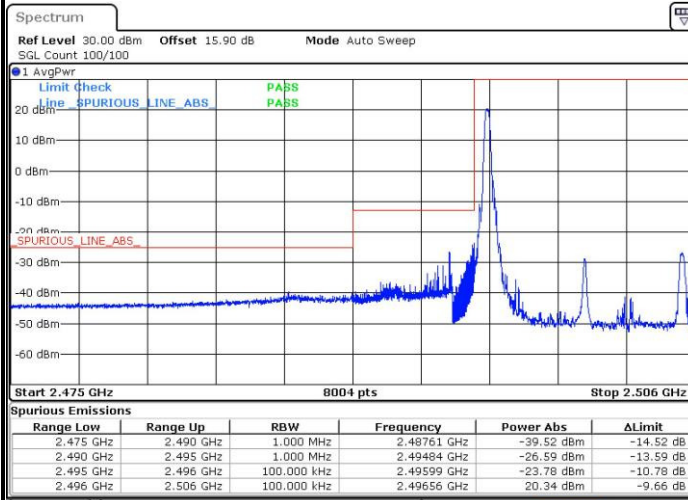




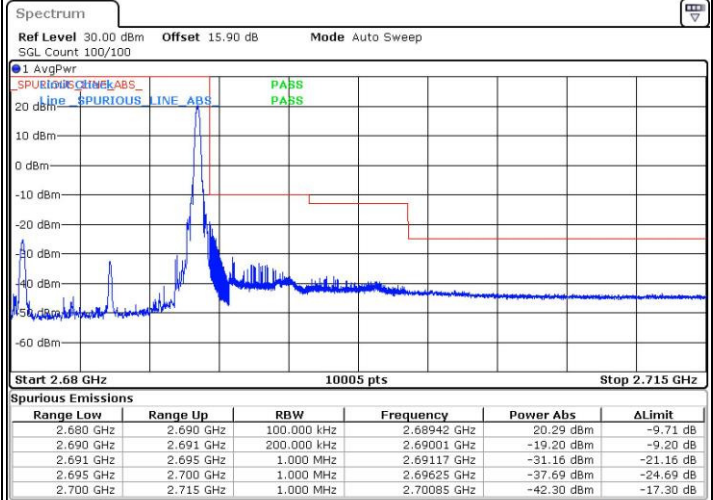


## LTE Band 41 / 10MHz / 16QAM

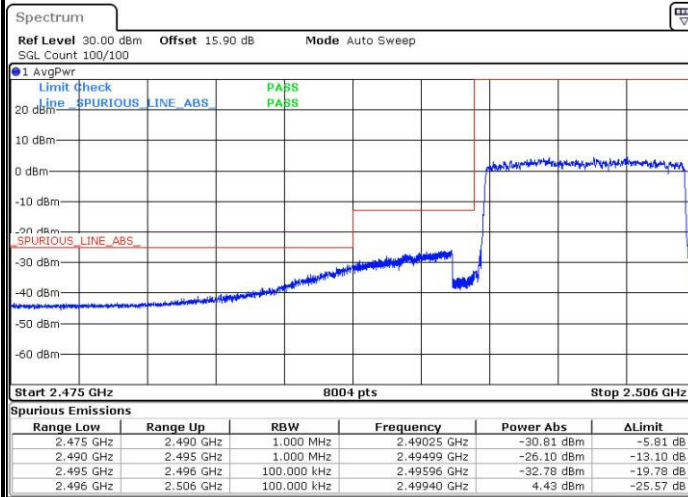
## Lowest Band Edge / 1 RB



## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

