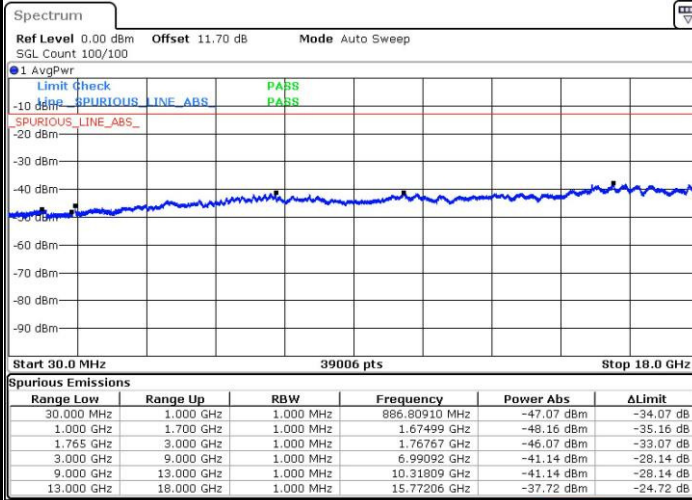




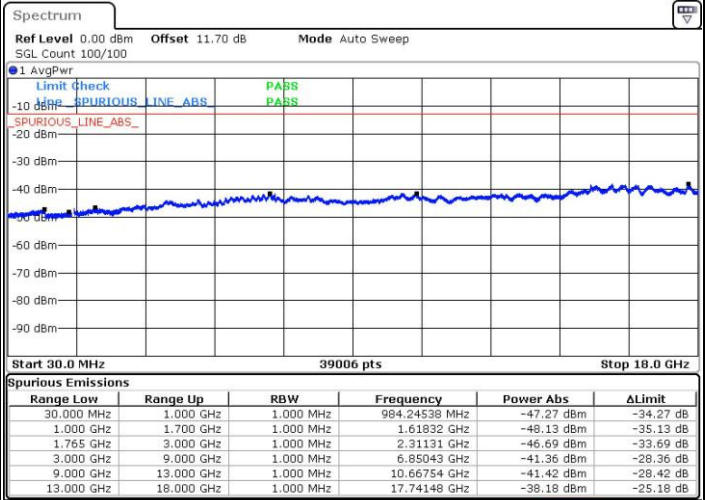
LTE Band 4 / 15MHz

Highest Channel / QPSK



Date: 8 JAN 2017 22:08:35

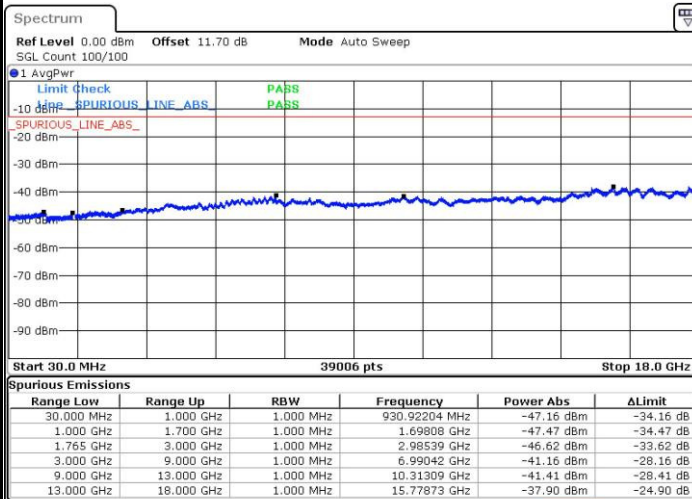
Highest Channel / 16QAM



Date: 8 JAN 2017 22:09:29

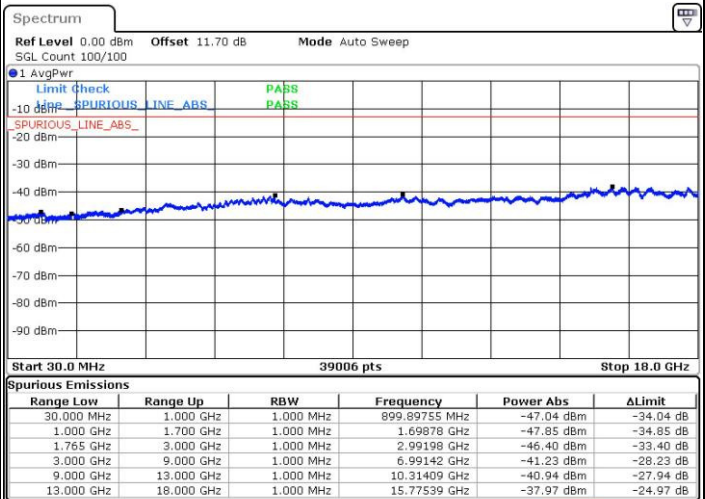
LTE Band 4 / 20MHz

Lowest Channel / QPSK



Date: 8 JAN 2017 22:15:42

Lowest Channel / 16QAM

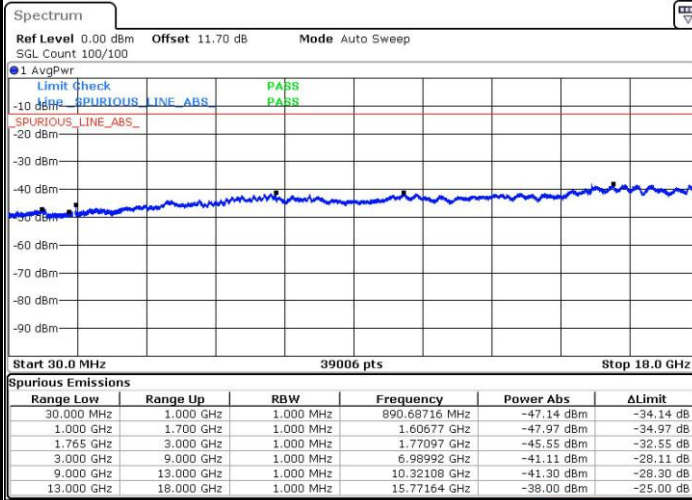


Date: 8 JAN 2017 22:16:36



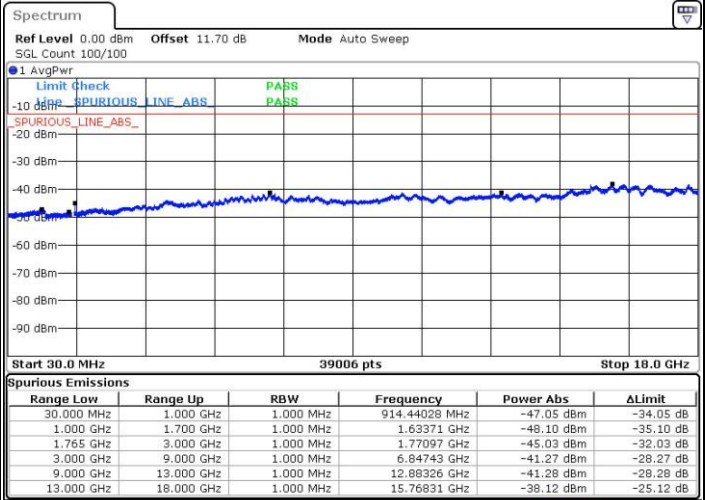
LTE Band 4 / 20MHz

Middle Channel / QPSK



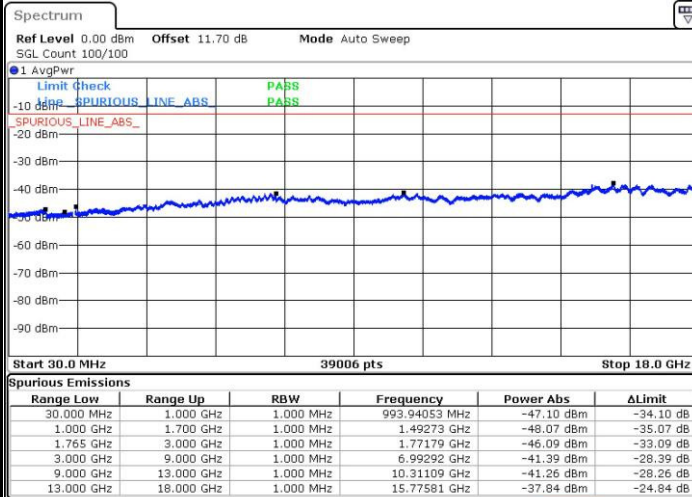
Date: 8 JAN 2017 22:18:12

Middle Channel / 16QAM



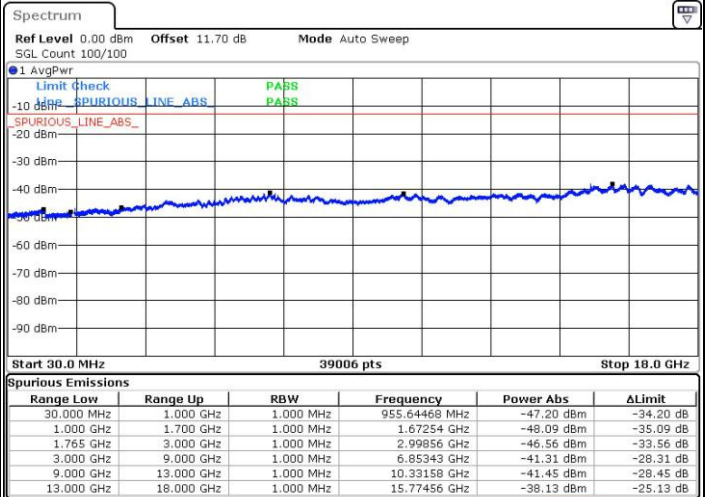
Date: 8 JAN 2017 22:19:06

Highest Channel / QPSK



Date: 8 JAN 2017 22:25:19

Highest Channel / 16QAM



Date: 8 JAN 2017 22:26:13

Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0013	PASS
40	Normal Voltage	0.0014	
30	Normal Voltage	0.0032	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0023	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0027	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0014	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0027	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 5

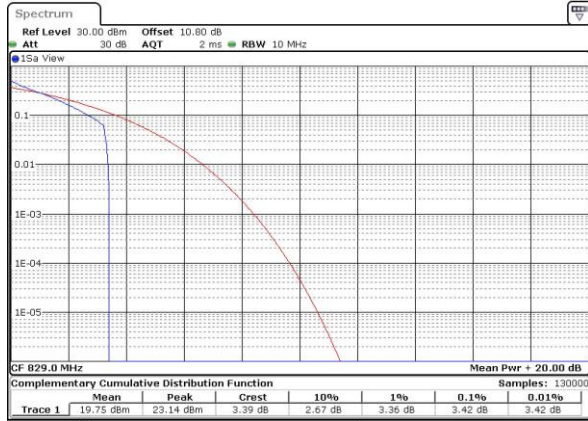
Peak-to-Average Ratio

Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.42	4.55	3.88	5.59	PASS
Middle CH	4.06	4.38	4.67	5.42	
Highest CH	3.42	4.61	4.87	5.57	

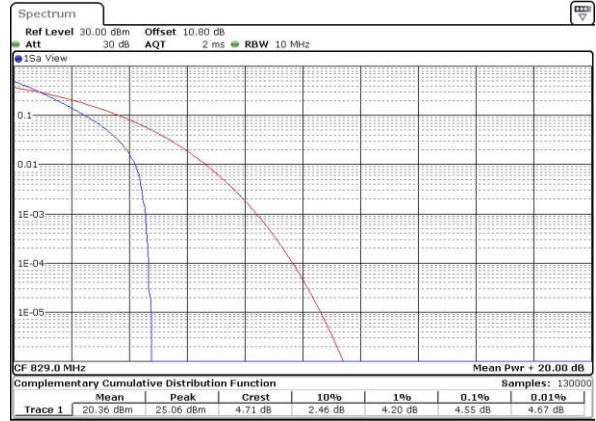


LTE Band 5 / 10MHz / QPSK

Lowest Channel / 1RB



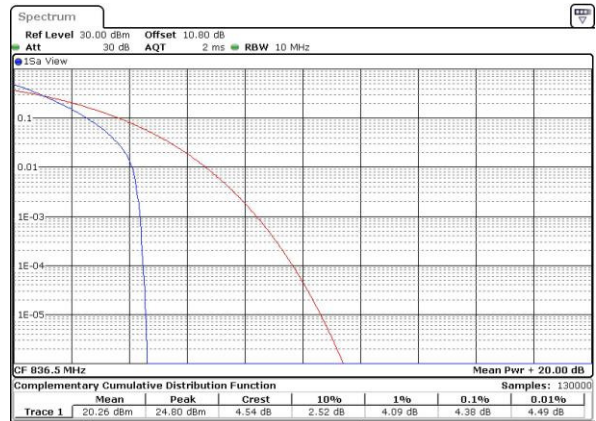
Lowest Channel / Full RB



Middle Channel / 1RB



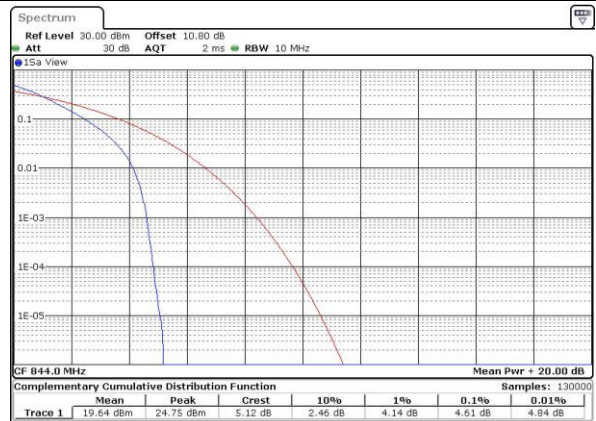
Middle Channel / Full RB



Highest Channel / 1RB



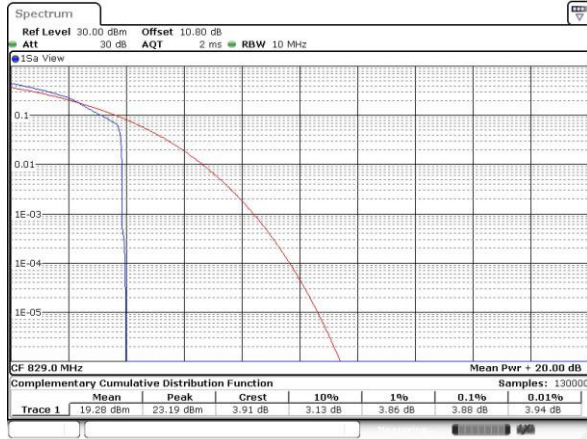
Highest Channel / Full RB



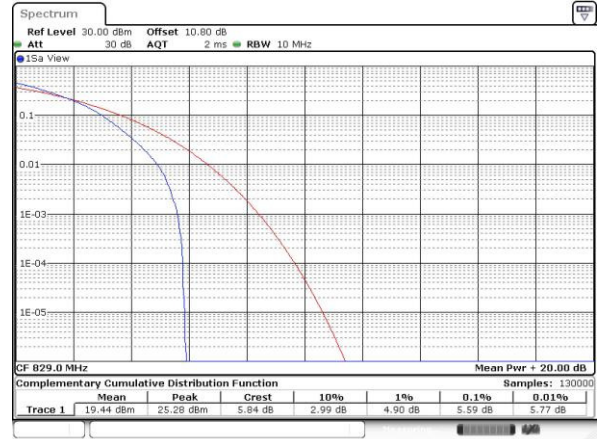


LTE Band 5 / 10MHz / 16QAM

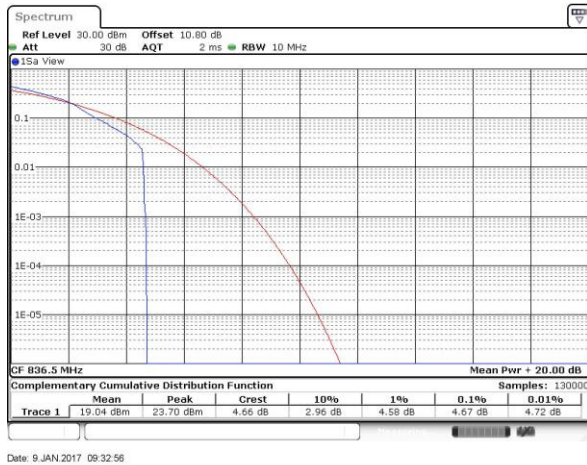
Lowest Channel / 1RB



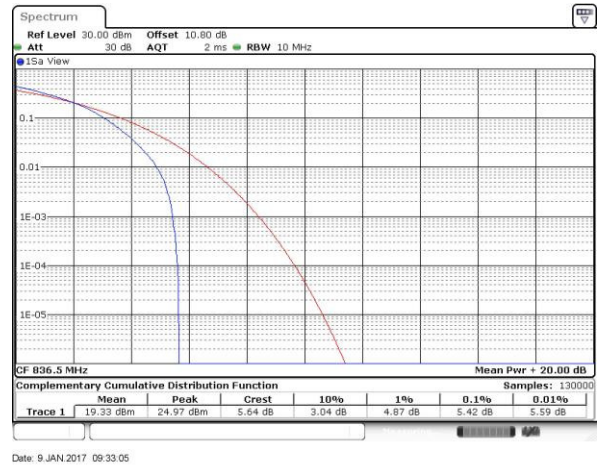
Lowest Channel / Full RB



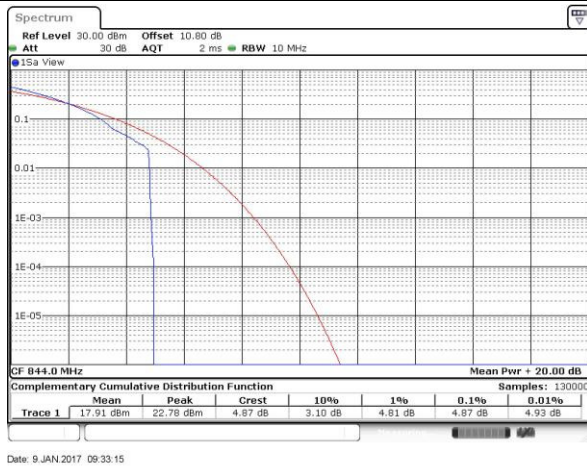
Middle Channel / 1RB



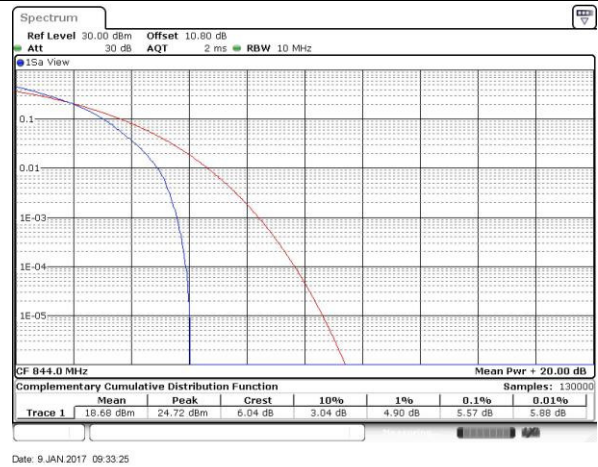
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



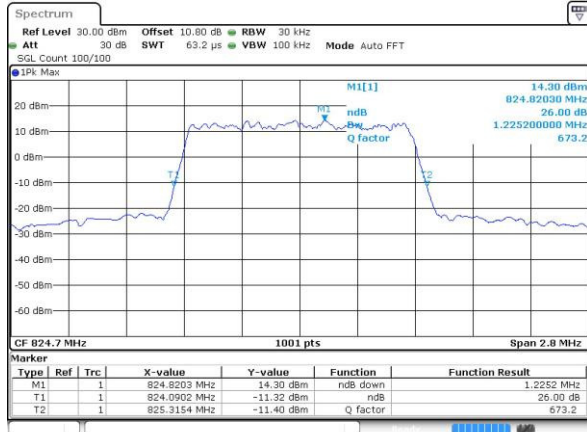
**26dB Bandwidth**

Mode	LTE Band 5 : 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	1.225	1.236	3.045	3.009	4.935	4.875	9.83	9.87	-	-	-	-
Middle CH	1.245	1.245	3.033	3.045	4.915	4.885	9.65	9.79	-	-	-	-
Highest CH	1.231	1.225	3.063	3.021	4.835	4.845	9.69	9.67	-	-	-	-



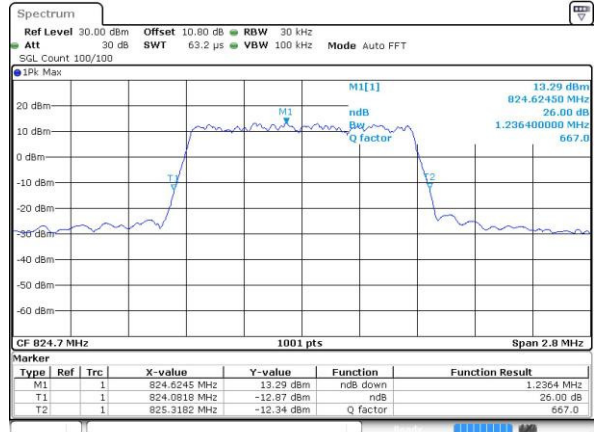
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



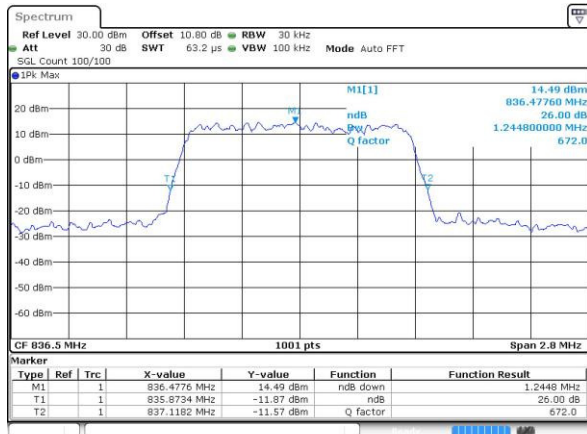
Date: 9 JAN 2017 09:12:10

Lowest Channel / 1.4MHz / 16QAM



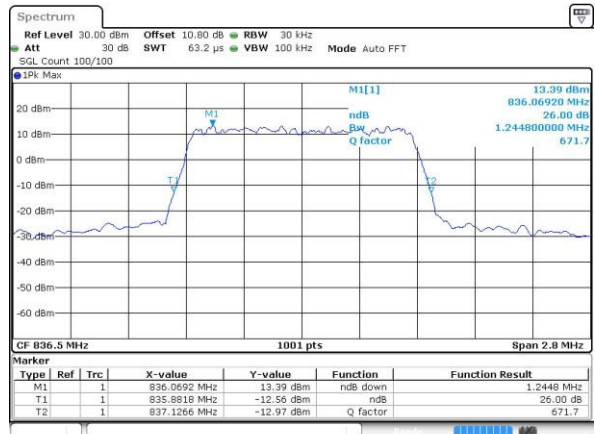
Date: 9 JAN 2017 09:12:00

Middle Channel / 1.4MHz / QPSK



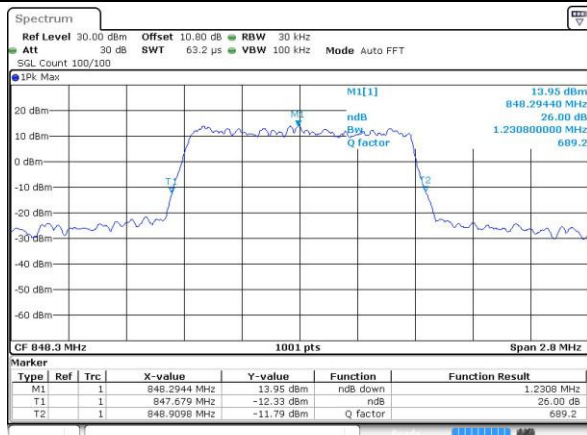
Date: 9 JAN 2017 09:21:06

Middle Channel / 1.4MHz / 16QAM



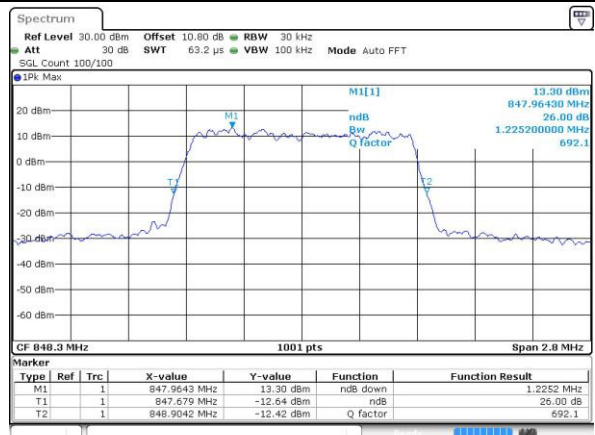
Date: 9 JAN 2017 09:21:17

Highest Channel / 1.4MHz / QPSK



Date: 9 JAN 2017 09:23:37

Highest Channel / 1.4MHz / 16QAM

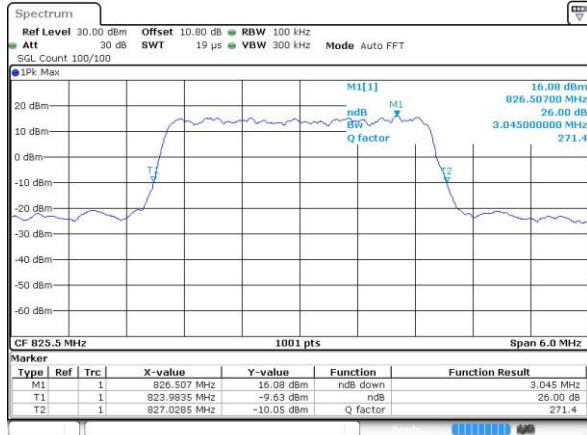


Date: 9 JAN 2017 09:23:47

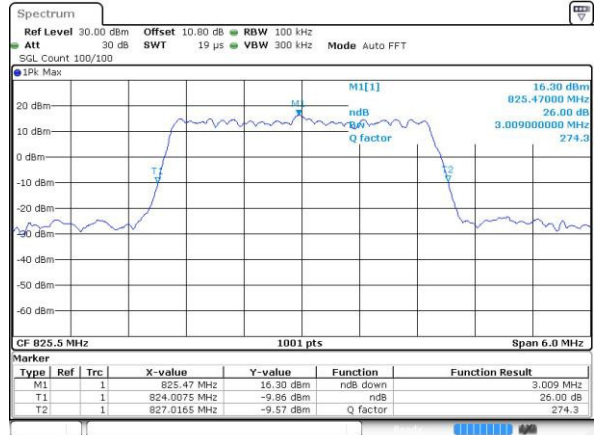


LTE Band 5

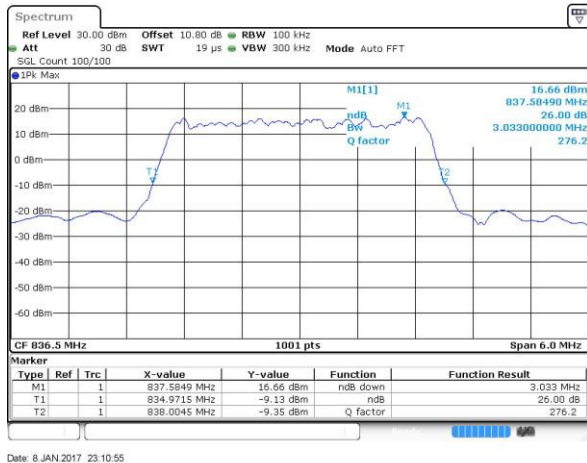
Lowest Channel / 3MHz / QPSK



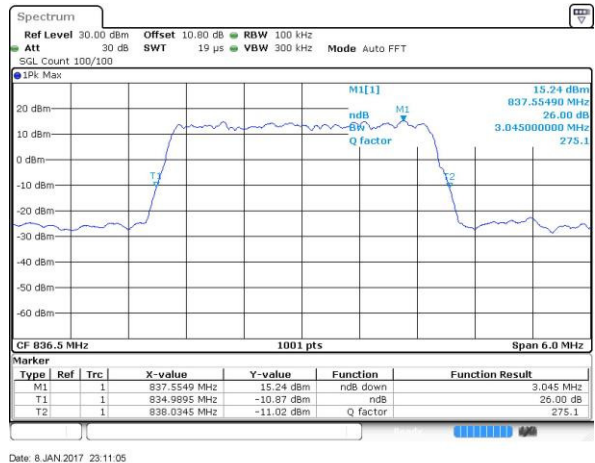
Lowest Channel / 3MHz / 16QAM



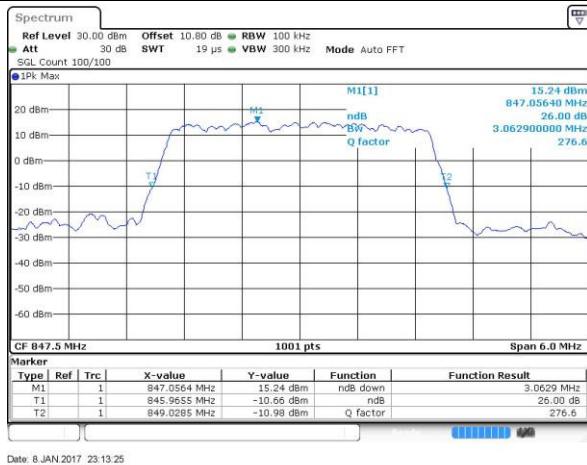
Middle Channel / 3MHz / QPSK



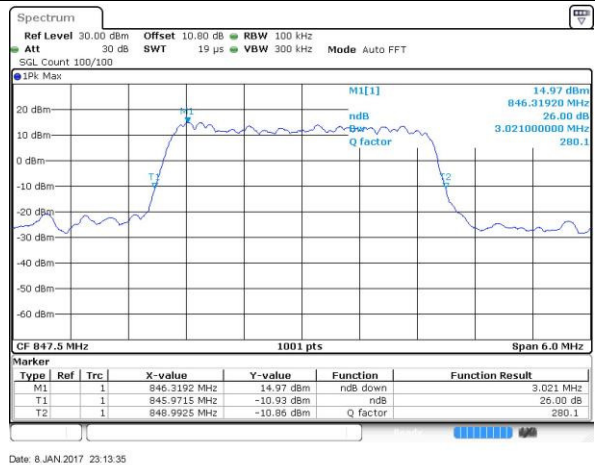
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



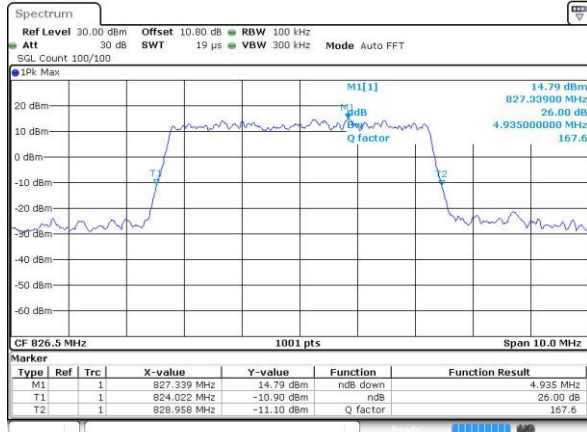
Highest Channel / 3MHz / 16QAM



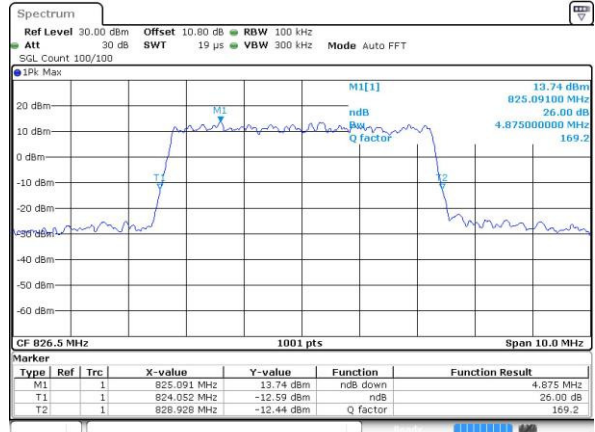


LTE Band 5

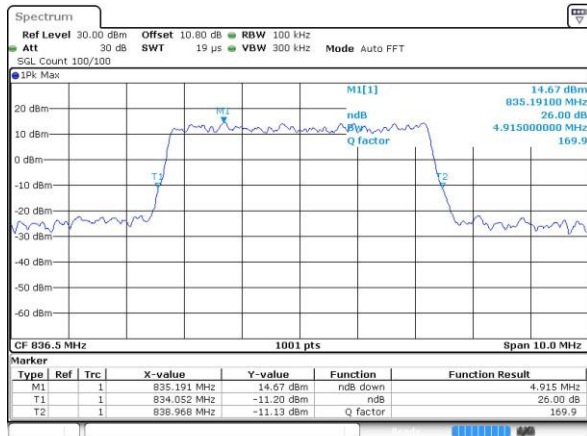
Lowest Channel / 5MHz / QPSK



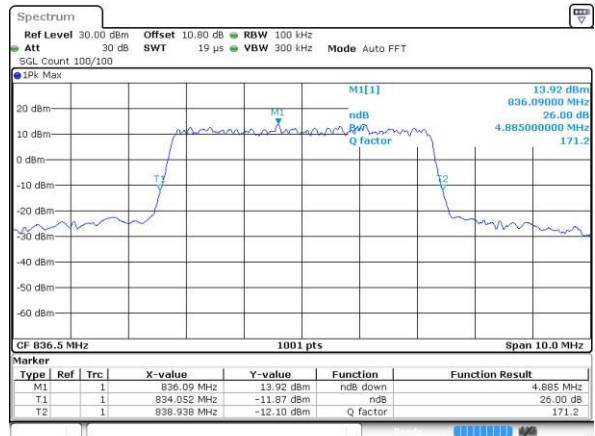
Lowest Channel / 5MHz / 16QAM



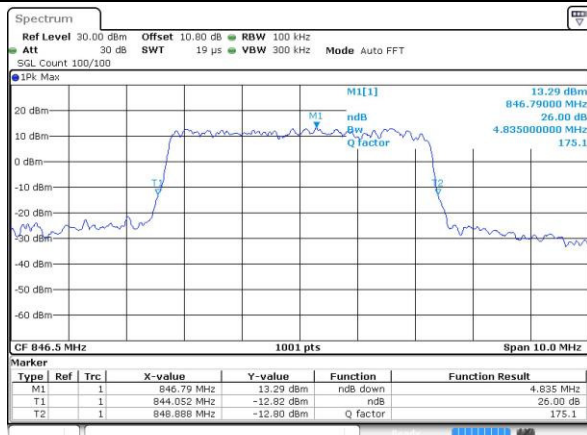
Middle Channel / 5MHz / QPSK



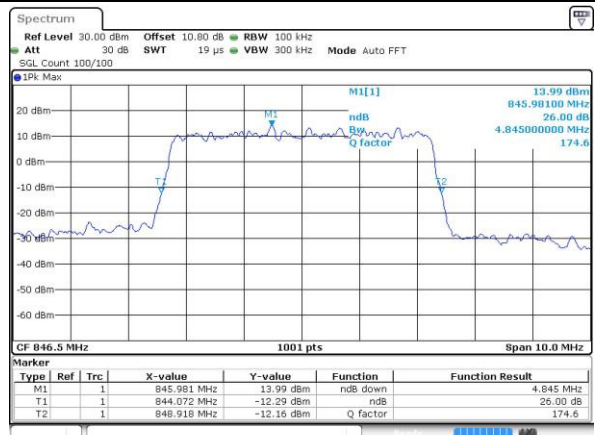
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



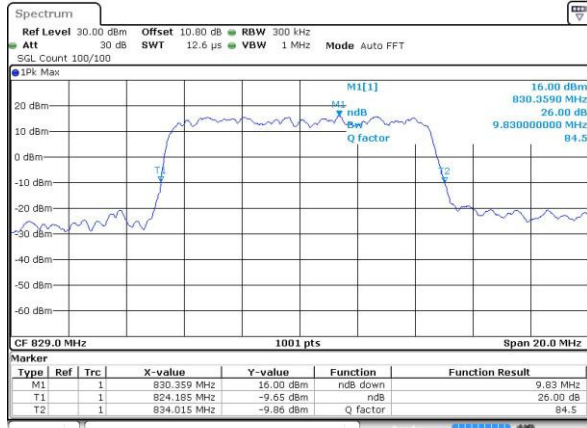
Highest Channel / 5MHz / 16QAM





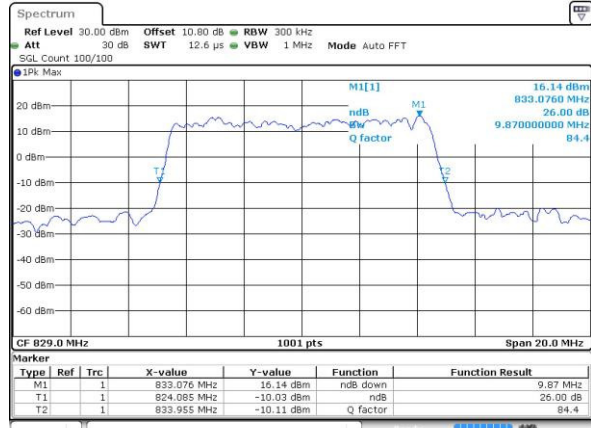
LTE Band 5

Lowest Channel / 10MHz / QPSK



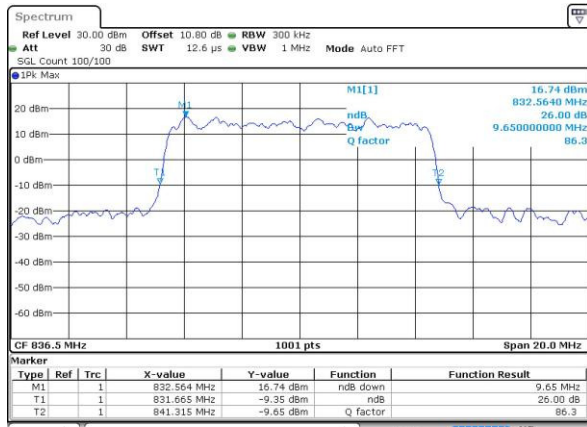
Date: 8 JAN 2017 23:43:55

Lowest Channel / 10MHz / 16QAM



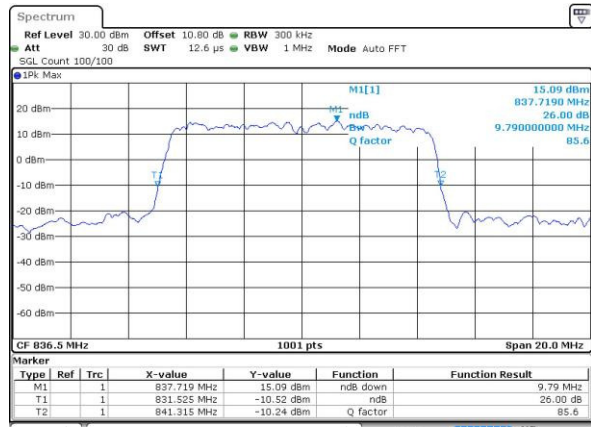
Date: 8 JAN 2017 23:44:05

Middle Channel / 10MHz / QPSK



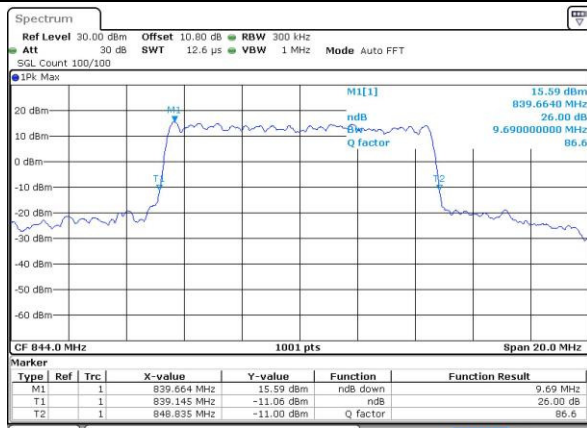
Date: 8 JAN 2017 23:53:01

Middle Channel / 10MHz / 16QAM



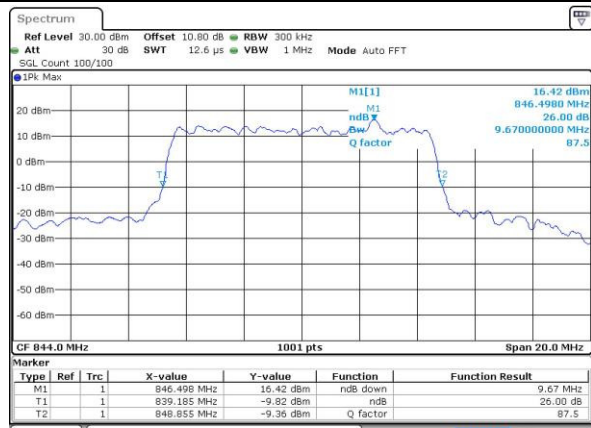
Date: 8 JAN 2017 23:53:11

Highest Channel / 10MHz / QPSK



Date: 8 JAN 2017 23:55:30

Highest Channel / 10MHz / 16QAM



Date: 8 JAN 2017 23:55:40

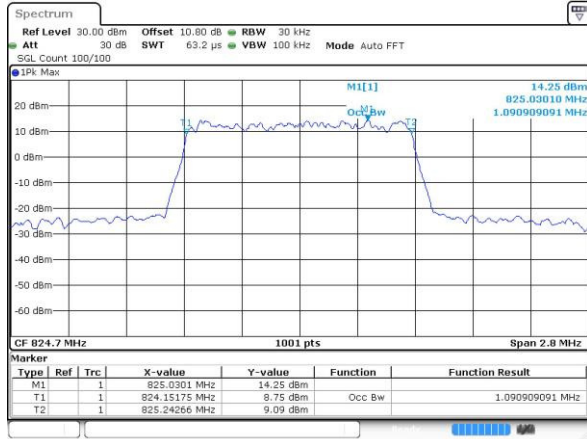
**Occupied Bandwidth**

Mode	LTE Band 5 : 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	2.73	4.49	4.48	9.03	9.03	-	-	-	-
Middle CH	1.1	1.09	2.71	2.72	4.48	4.5	9.01	9.03	-	-	-	-
Highest CH	1.09	1.09	2.72	2.72	4.5	4.5	8.99	9.03	-	-	-	-

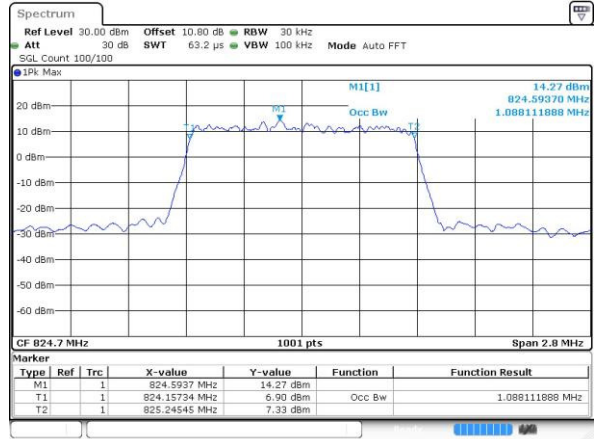


LTE Band 5

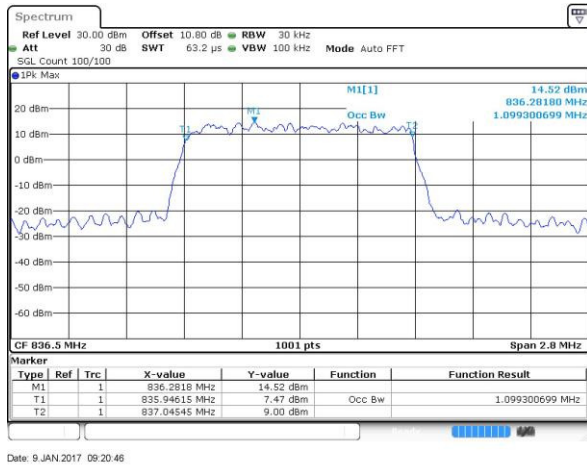
Lowest Channel / 1.4MHz / QPSK



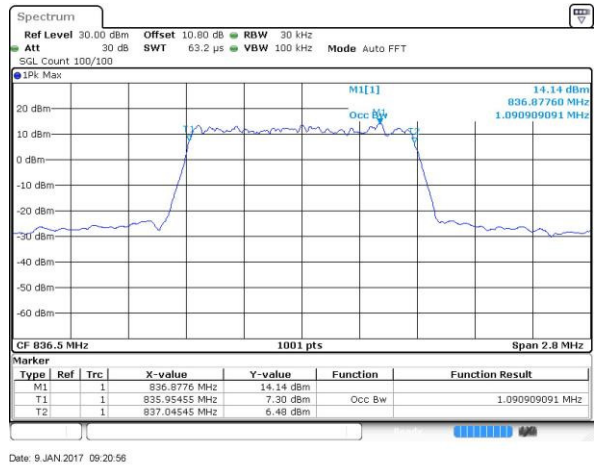
Lowest Channel / 1.4MHz / 16QAM



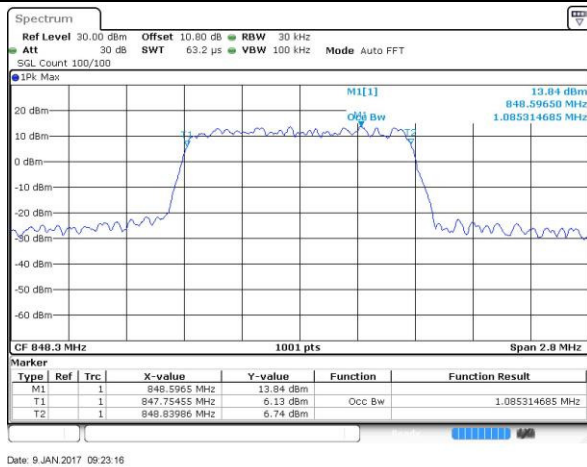
Middle Channel / 1.4MHz / QPSK



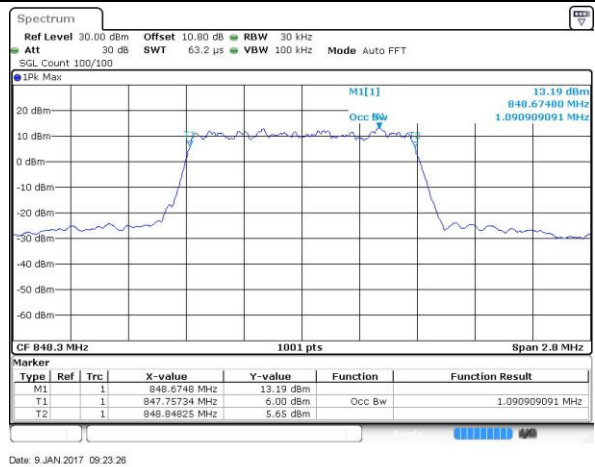
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



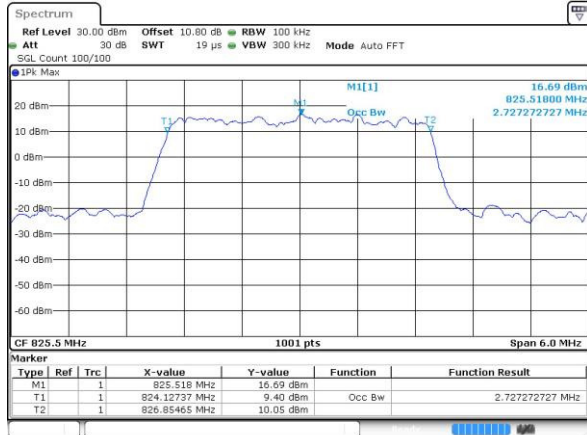
Highest Channel / 1.4MHz / 16QAM





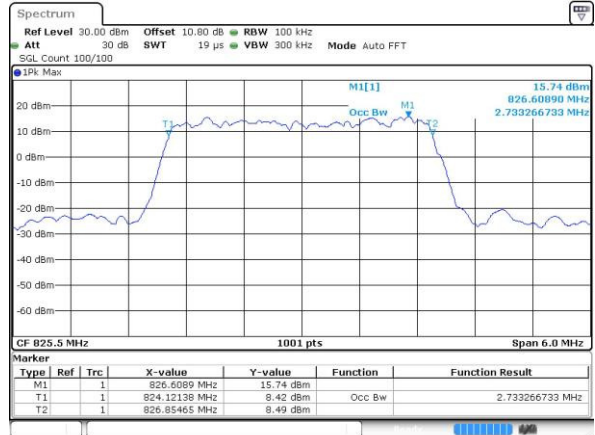
LTE Band 5

Lowest Channel / 3MHz / QPSK



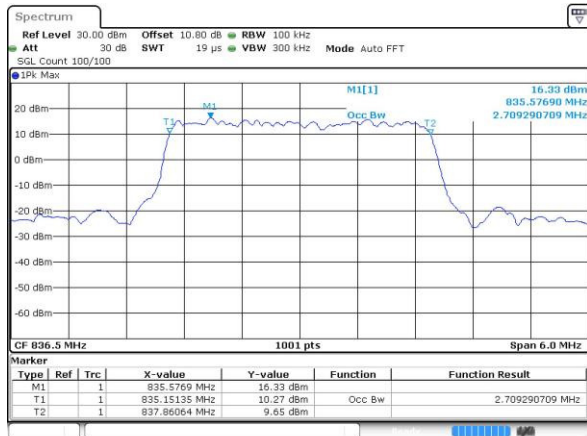
Date: 8 JAN 2017 23:01:28

Lowest Channel / 3MHz / 16QAM



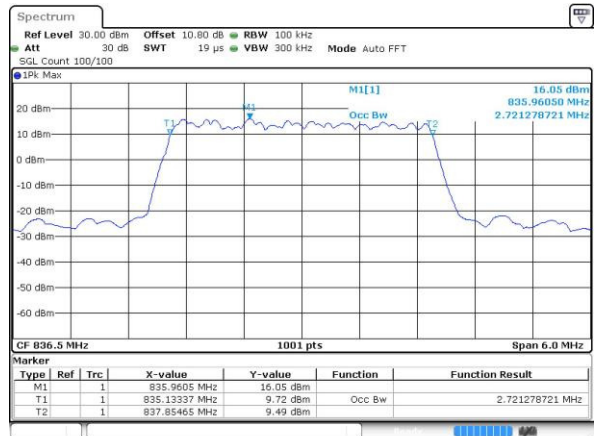
Date: 8 JAN 2017 23:01:38

Middle Channel / 3MHz / QPSK



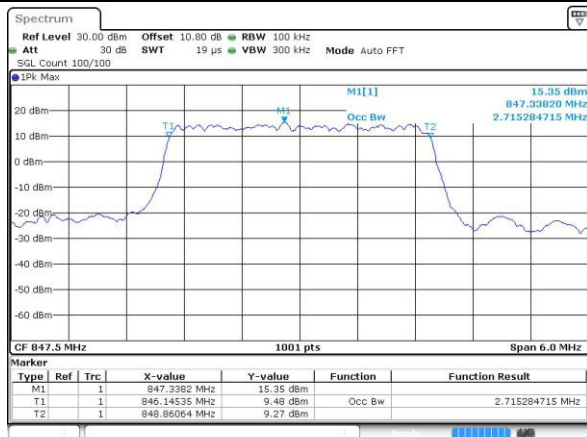
Date: 8 JAN 2017 23:10:34

Middle Channel / 3MHz / 16QAM



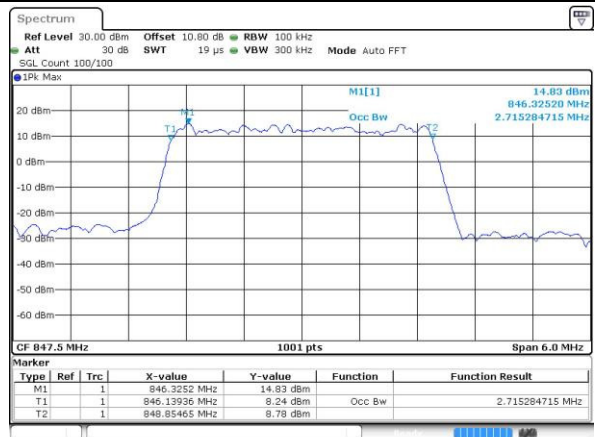
Date: 8 JAN 2017 23:10:45

Highest Channel / 3MHz / QPSK



Date: 8 JAN 2017 23:13:04

Highest Channel / 3MHz / 16QAM

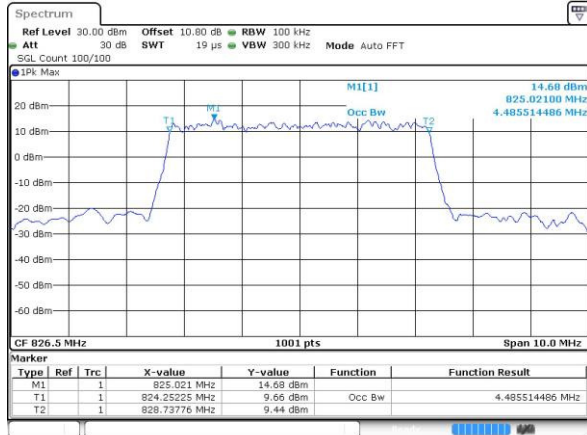


Date: 8 JAN 2017 23:13:15



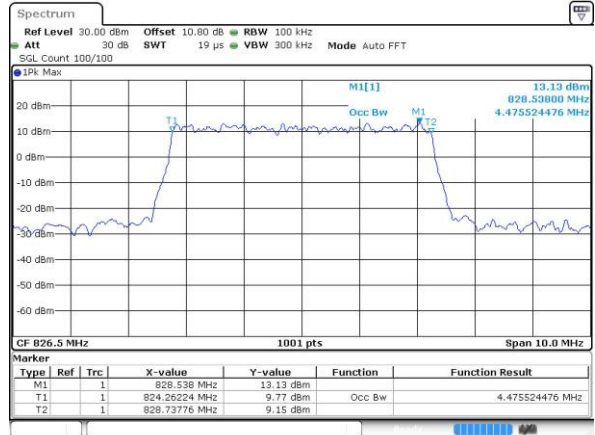
LTE Band 5

Lowest Channel / 5MHz / QPSK



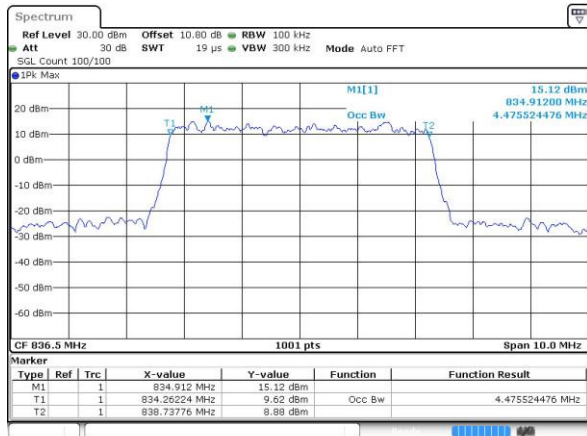
Date: 8 JAN 2017 23:22:11

Lowest Channel / 5MHz / 16QAM



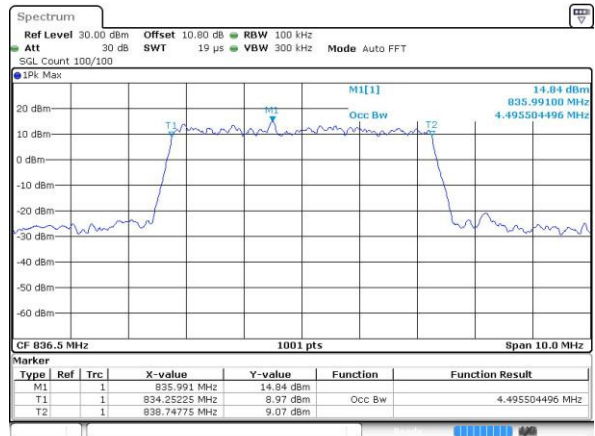
Date: 8 JAN 2017 23:22:21

Middle Channel / 5MHz / QPSK



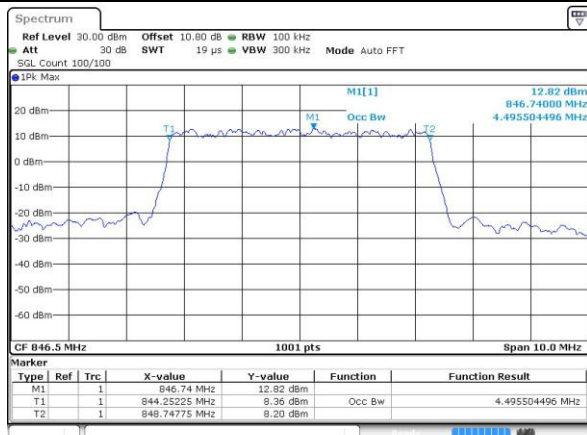
Date: 8 JAN 2017 23:31:17

Middle Channel / 5MHz / 16QAM



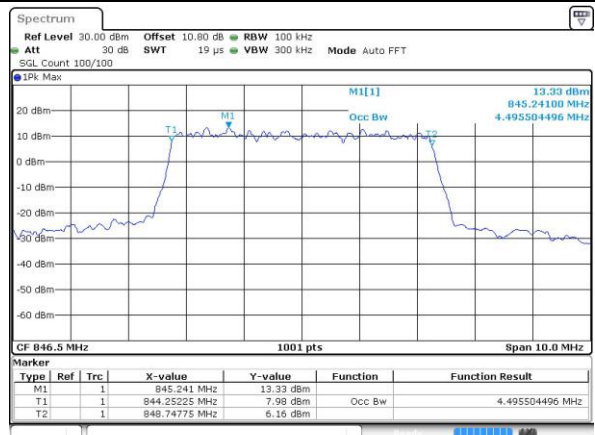
Date: 8 JAN 2017 23:32:08

Highest Channel / 5MHz / QPSK



Date: 8 JAN 2017 23:34:28

Highest Channel / 5MHz / 16QAM

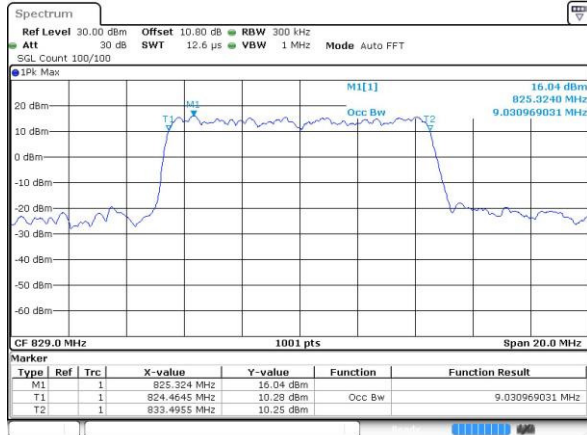


Date: 8 JAN 2017 23:34:38



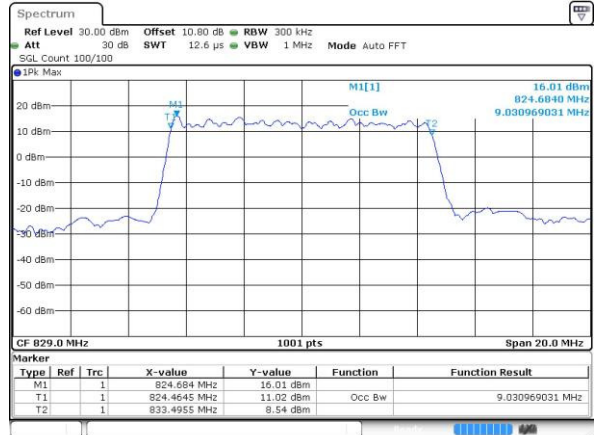
LTE Band 5

Lowest Channel / 10MHz / QPSK



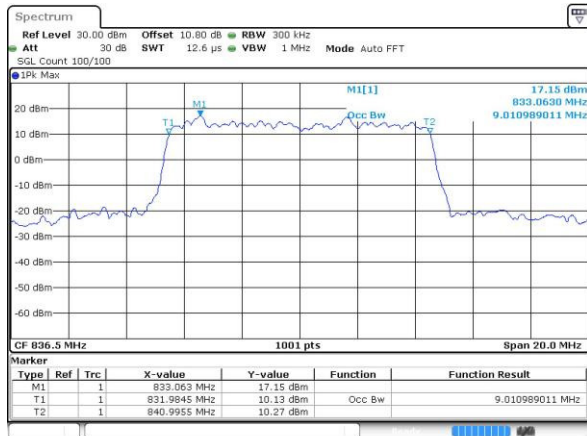
Date: 8 JAN 2017 23:43:34

Lowest Channel / 10MHz / 16QAM



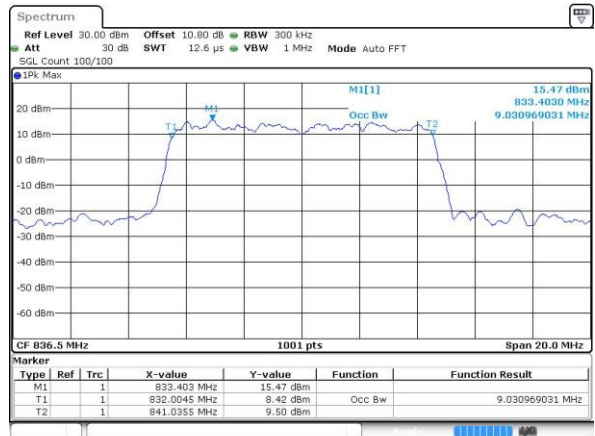
Date: 8 JAN 2017 23:43:44

Middle Channel / 10MHz / QPSK



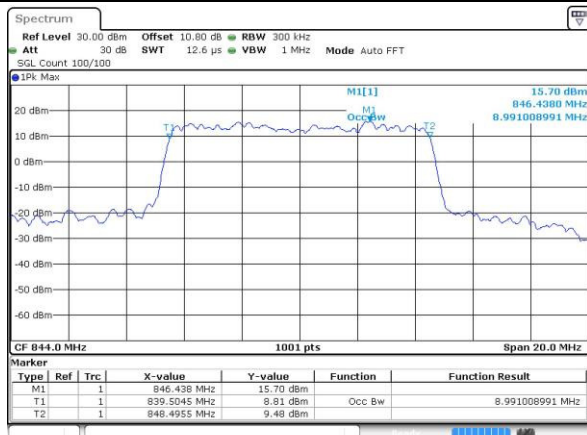
Date: 8 JAN 2017 23:52:40

Middle Channel / 10MHz / 16QAM



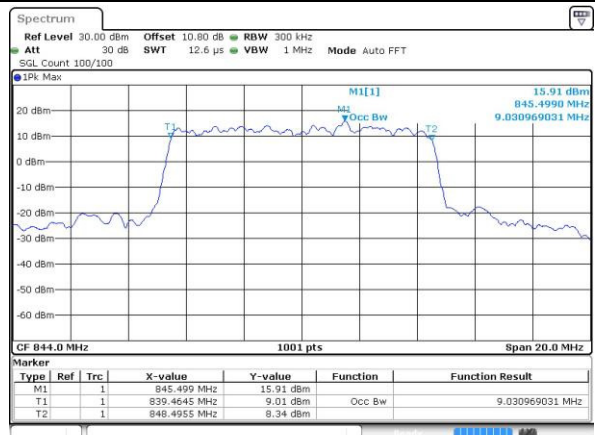
Date: 8 JAN 2017 23:52:51

Highest Channel / 10MHz / QPSK

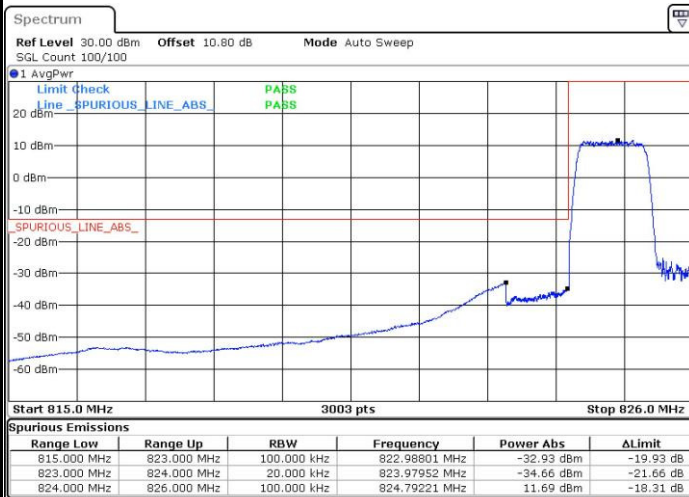


Date: 8 JAN 2017 23:55:10

Highest Channel / 10MHz / 16QAM



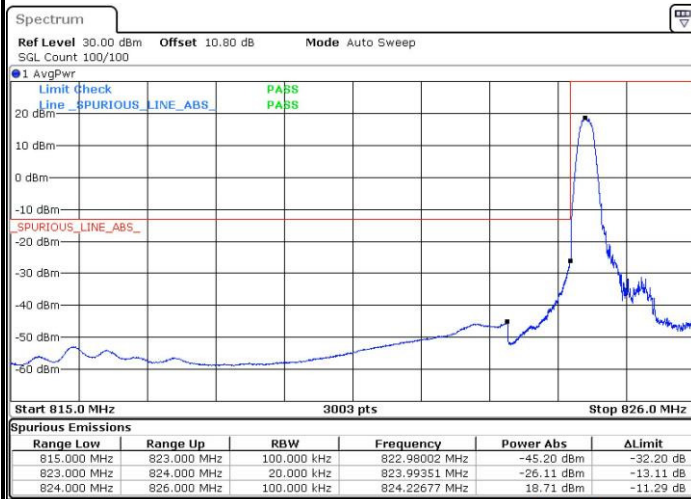
Date: 8 JAN 2017 23:55:20

**Conducted Band Edge****LTE Band 5 / 1.4MHz / QPSK****Lowest Band Edge / 1RB****Highest Band Edge / 1RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**



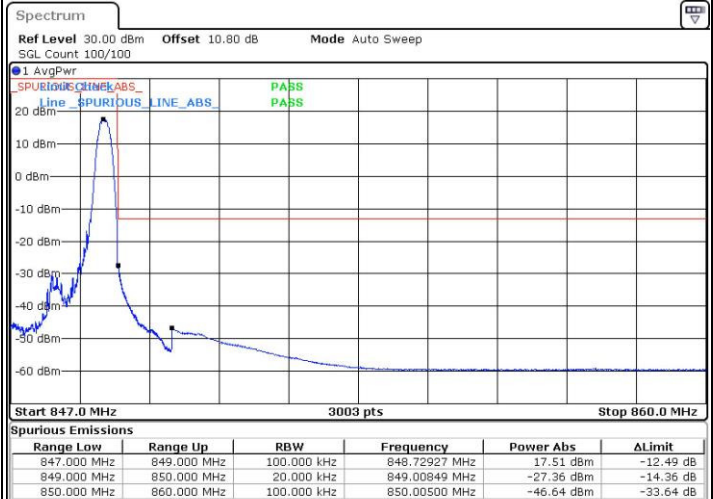
LTE Band 5 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 9 JAN 2017 09:15:28

Highest Band Edge / 1 RB



Date: 9 JAN 2017 09:30:24

Lowest Band Edge / Full RB



Date: 9 JAN 2017 09:18:46

Highest Band Edge / Full RB

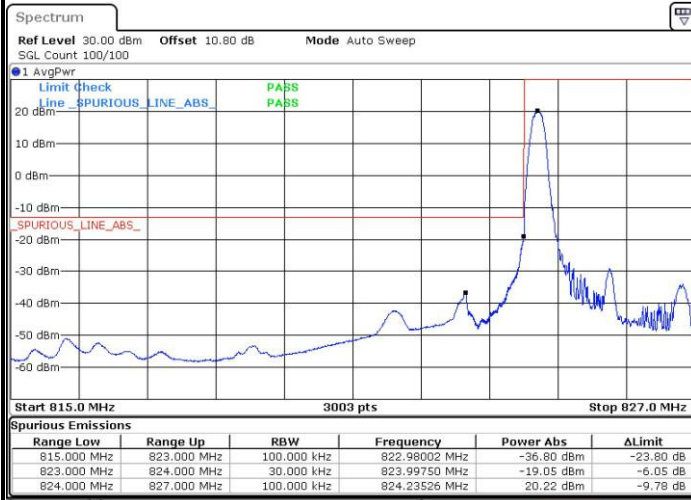


Date: 9 JAN 2017 09:27:05

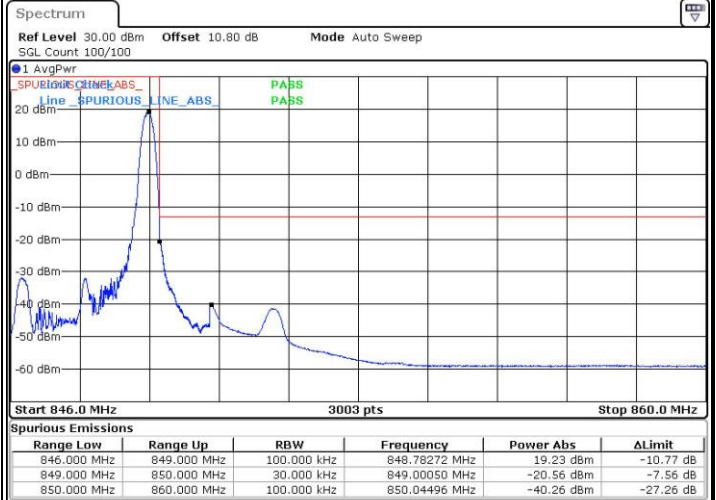


LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



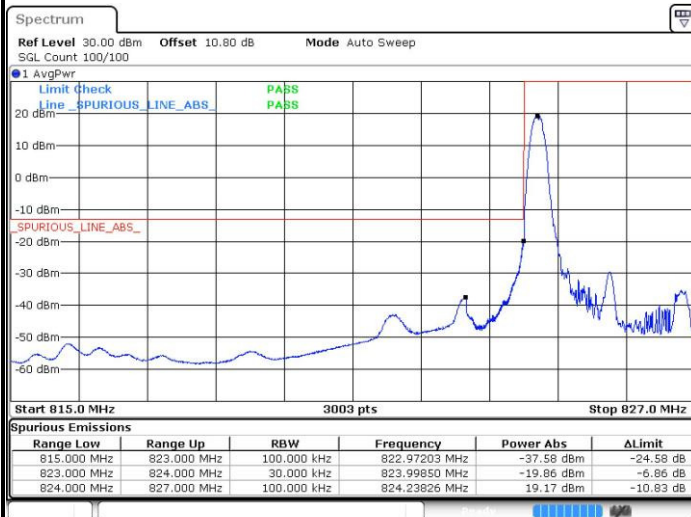
Highest Band Edge / Full RB



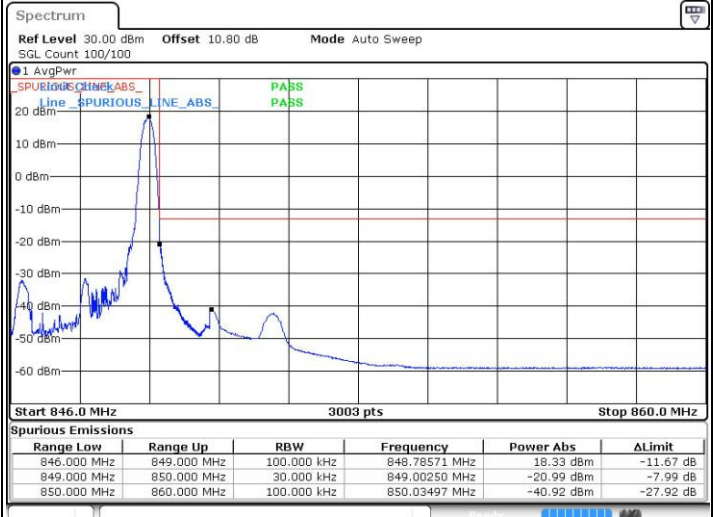


LTE Band 5 / 3MHz / 16QAM

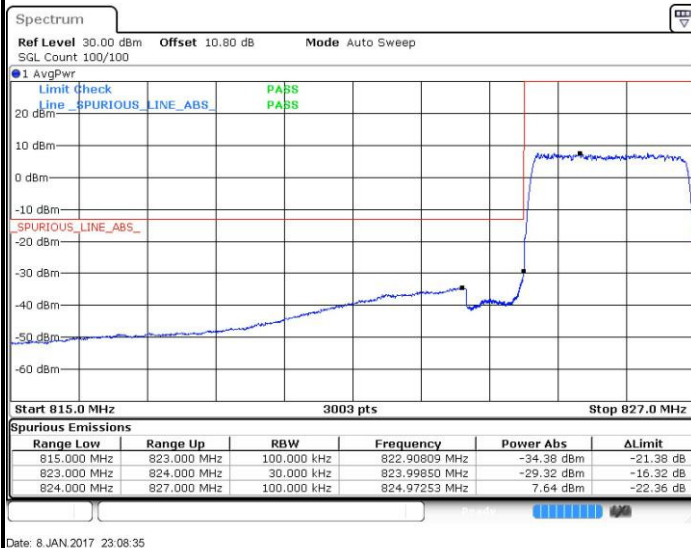
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



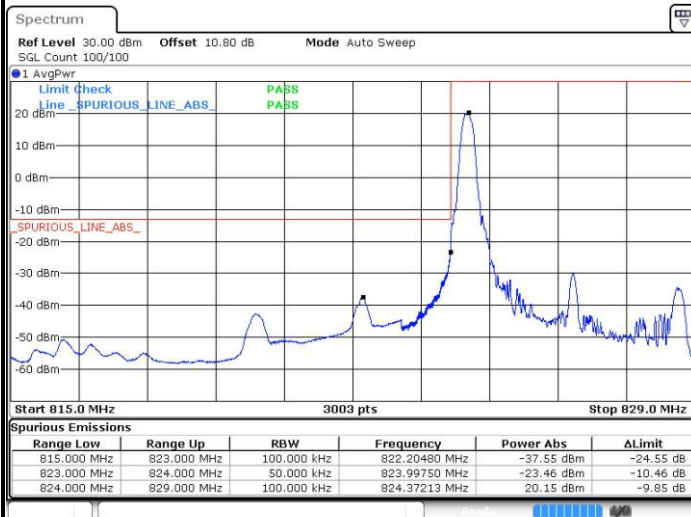
Highest Band Edge / Full RB



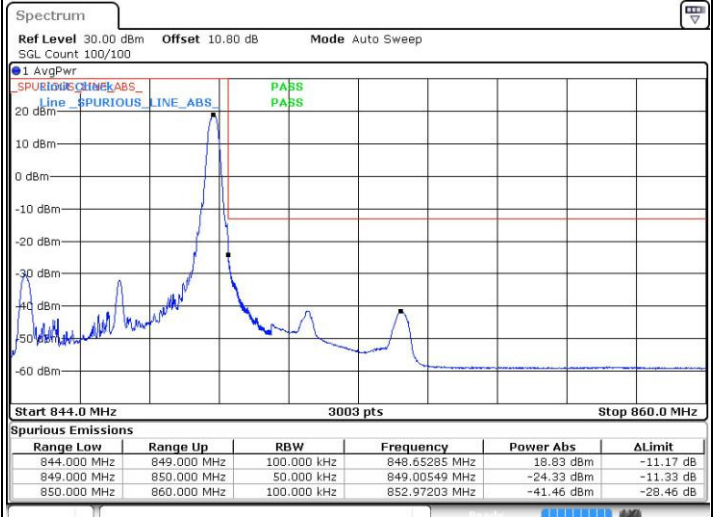


LTE Band 5 / 5MHz / QPSK

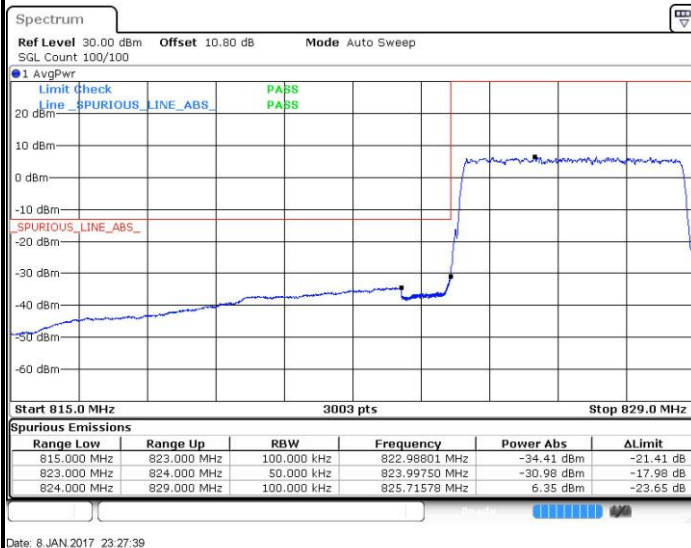
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

