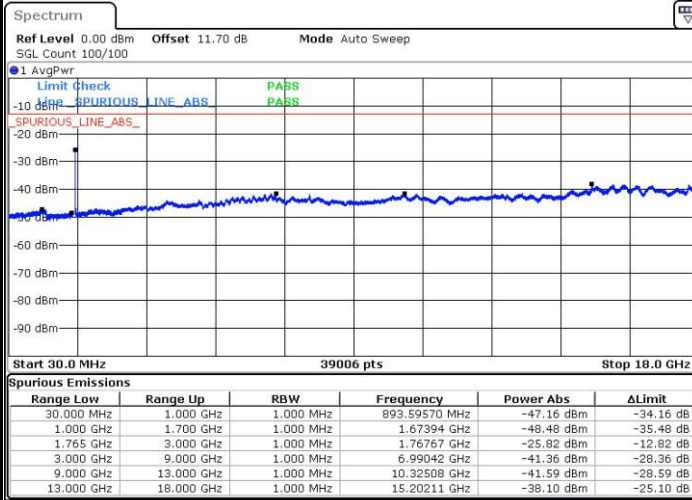




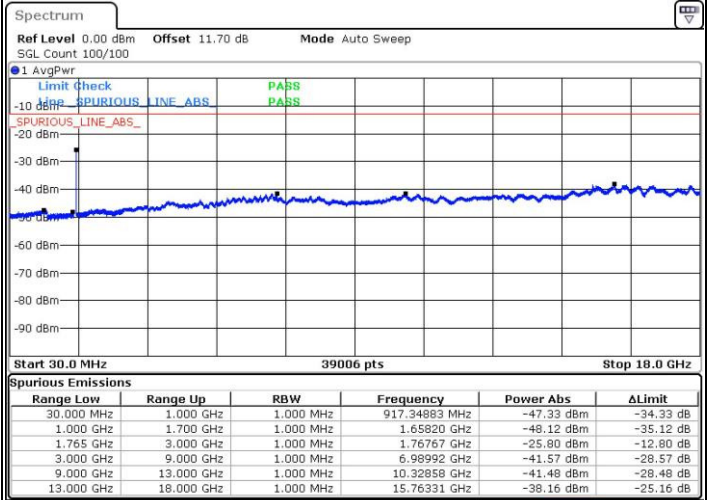
LTE Band 4 / 15MHz

Highest Channel / QPSK



Date: 13 JAN 2017 16:14:56

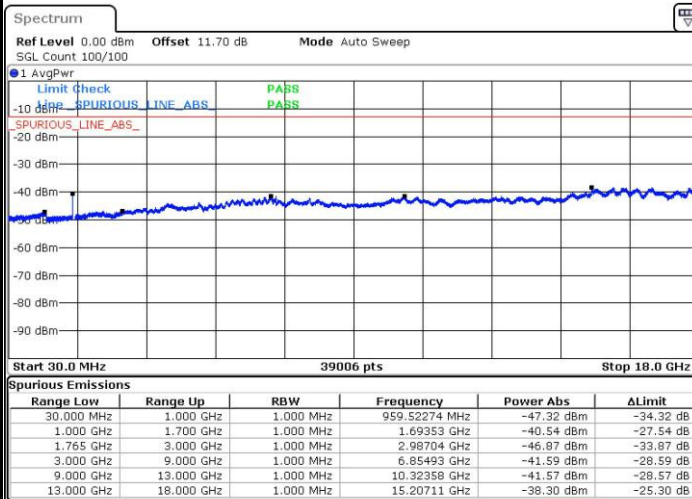
Highest Channel / 16QAM



Date: 13 JAN 2017 16:15:50

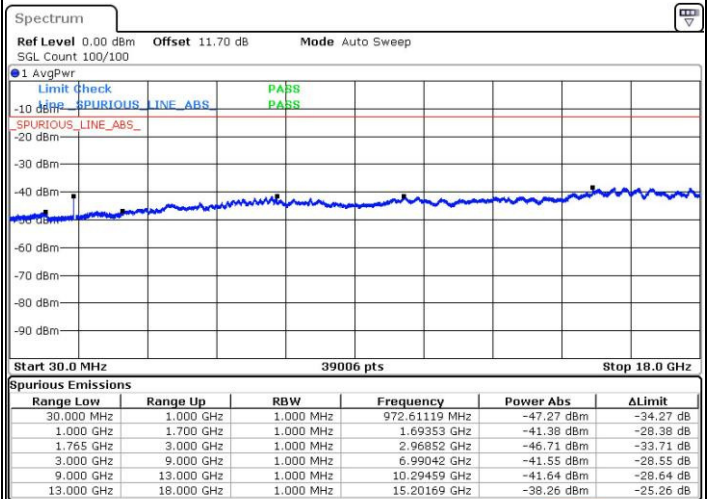
LTE Band 4 / 20MHz

Lowest Channel / QPSK



Date: 13 JAN 2017 16:22:02

Lowest Channel / 16QAM

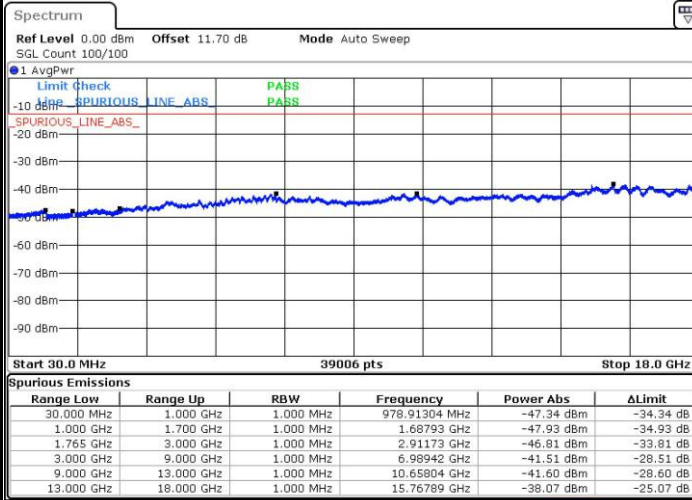


Date: 13 JAN 2017 16:22:57



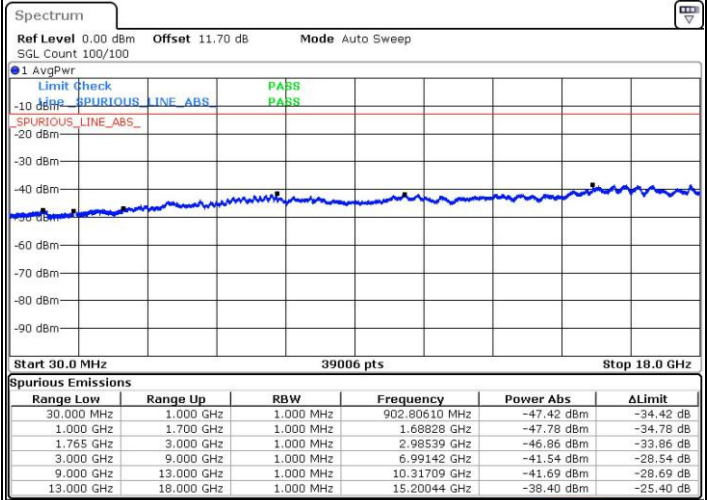
LTE Band 4 / 20MHz

Middle Channel / QPSK



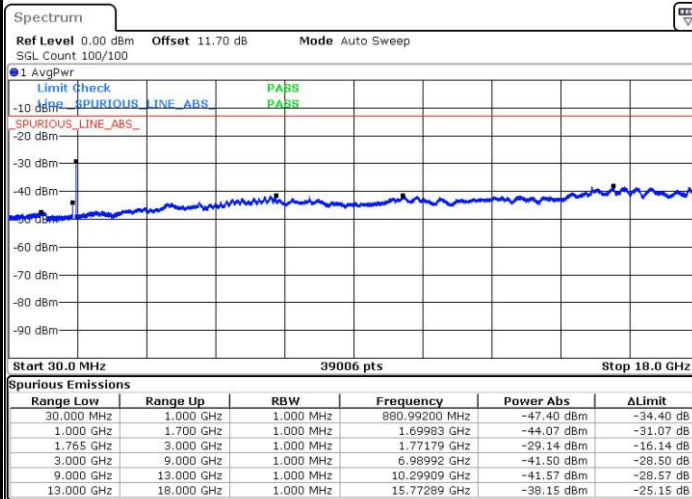
Date: 13 JAN 2017 16:24:33

Middle Channel / 16QAM



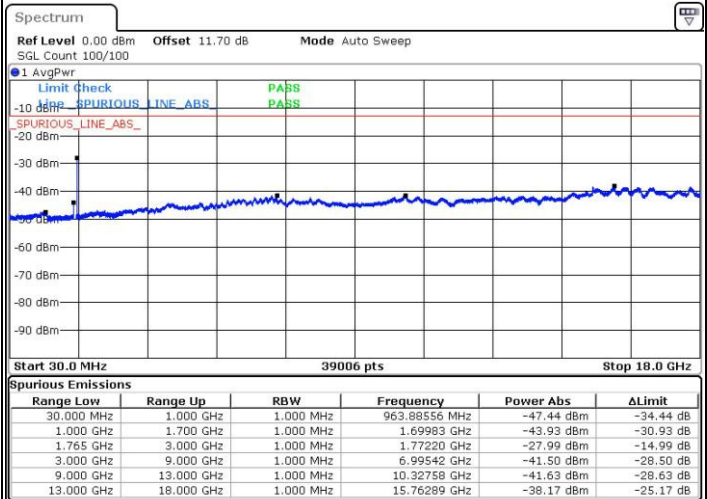
Date: 13 JAN 2017 16:25:27

Highest Channel / QPSK



Date: 13 JAN 2017 16:31:40

Highest Channel / 16QAM



Date: 13 JAN 2017 16:32:34

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	0.0005	PASS
40	Normal Voltage	0.0007	
30	Normal Voltage	0.0013	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0015	
0	Normal Voltage	0.0097	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0099	
20	Maximum Voltage	0.0009	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0099	

Note:

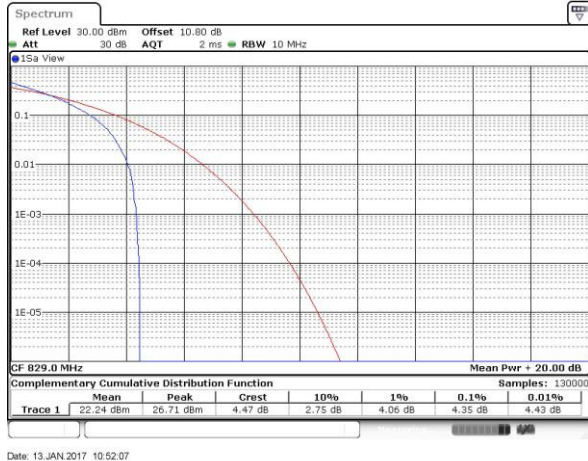
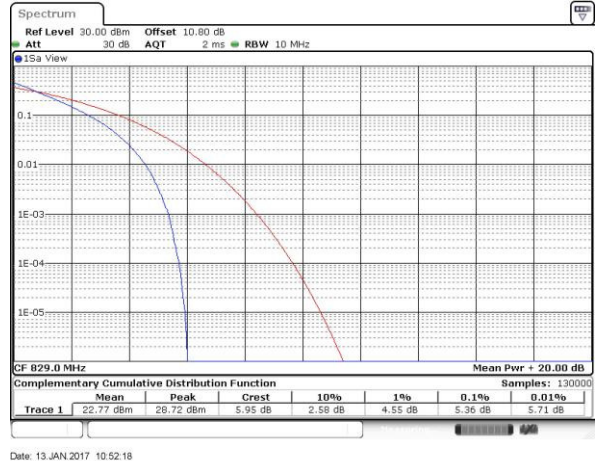
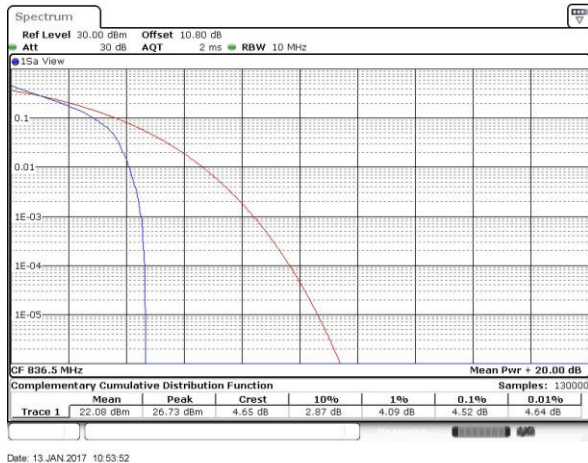
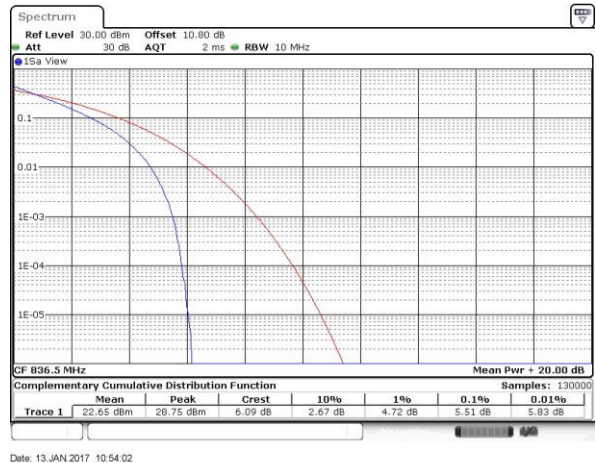
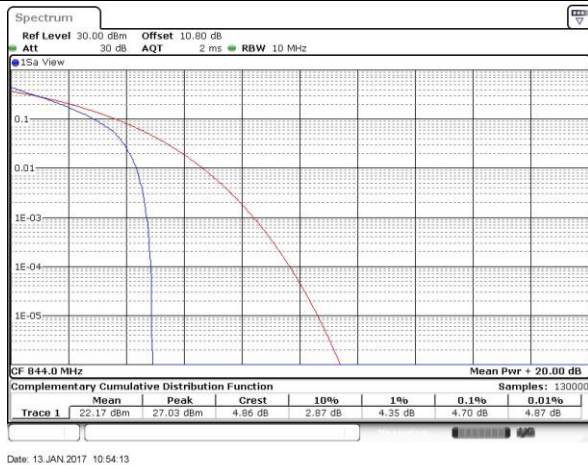
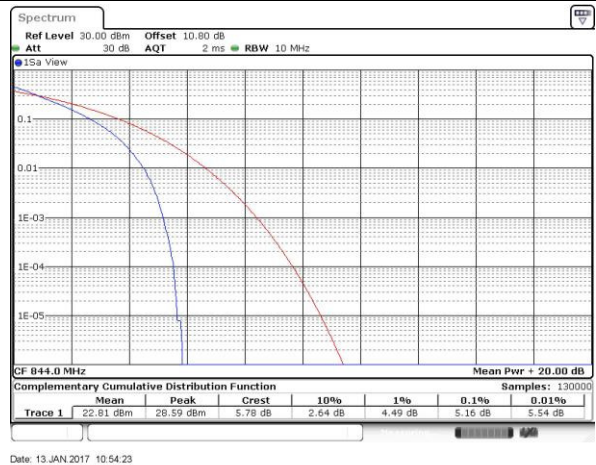
1. Normal Voltage =3.7 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.1 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

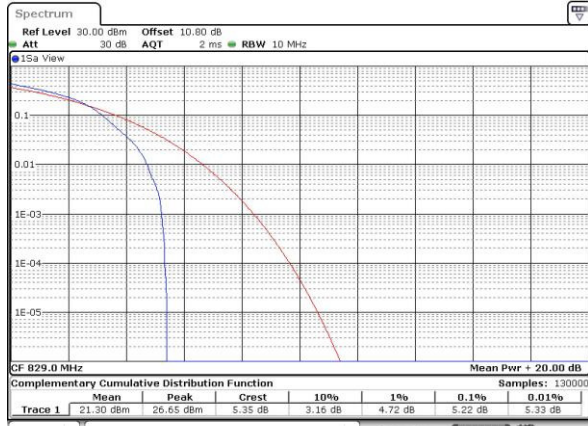


LTE Band 5

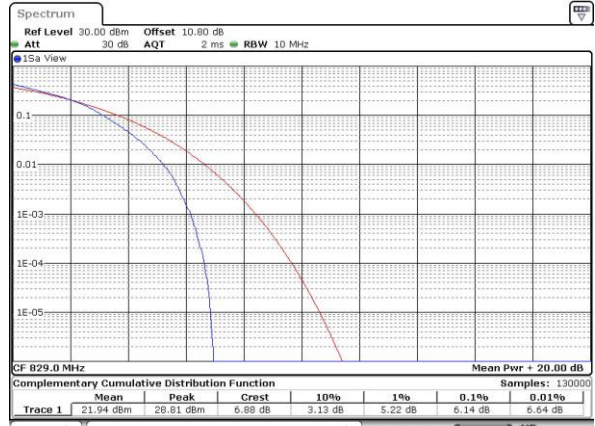
Peak-to-Average Ratio

Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.35	5.36	5.22	6.14	PASS
Middle CH	4.52	5.51	5.19	6.38	
Highest CH	4.7	5.16	5.36	6.17	

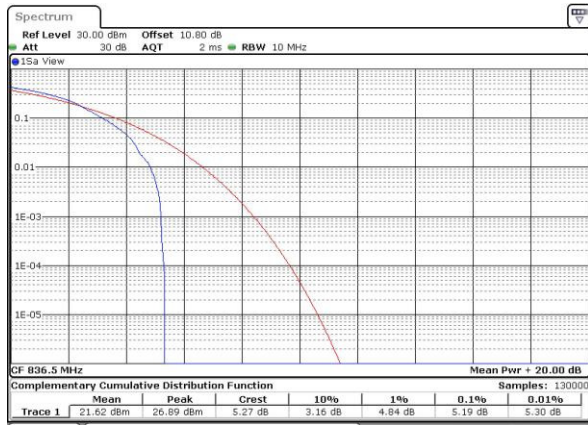
LTE Band 5 / 10MHz / QPSK
Lowest Channel / 1RB

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


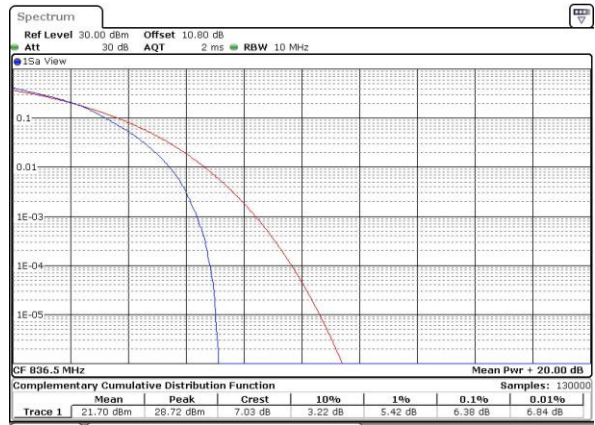
Date: 13 JAN 2017 10:51:10

Lowest Channel / Full RB


Date: 13 JAN 2017 10:51:19

Middle Channel / 1RB


Date: 13 JAN 2017 10:51:29

Middle Channel / Full RB


Date: 13 JAN 2017 10:51:39

Highest Channel / 1RB


Date: 13 JAN 2017 10:51:48

Highest Channel / Full RB


Date: 13 JAN 2017 10:51:58

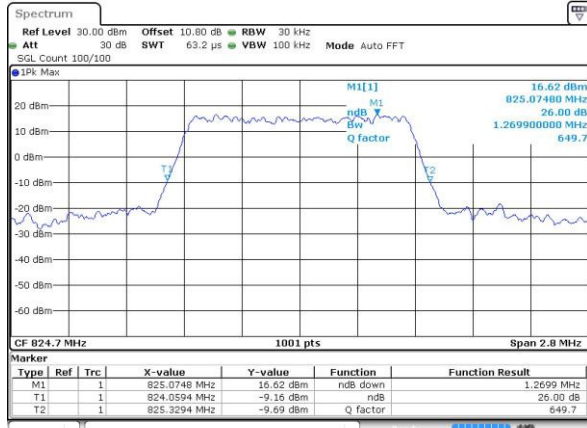
**26dB Bandwidth**

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	1.27	1.27	3.01	2.96	5.06	5.01	9.81	9.73	-	-	-	-
Middle CH	1.26	1.26	3.02	2.99	4.98	4.98	9.71	9.83	-	-	-	-
Highest CH	1.26	1.25	3.03	2.95	4.93	4.98	9.91	9.91	-	-	-	-



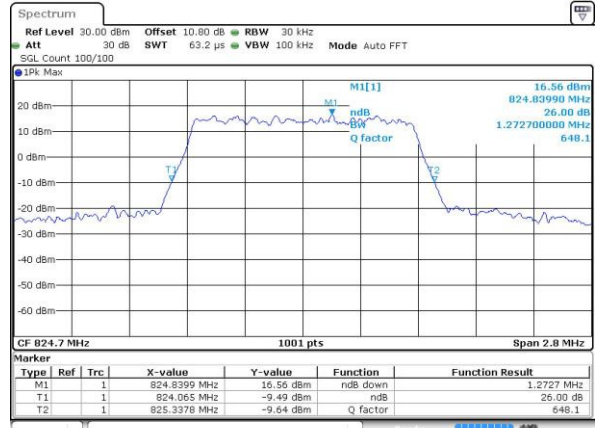
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



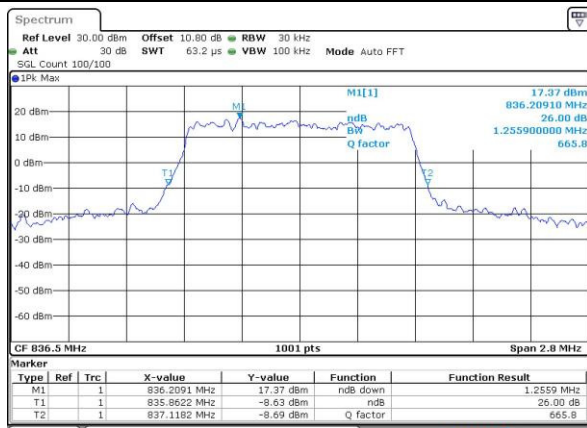
Date: 13 JAN 2017 10:29:00

Lowest Channel / 1.4MHz / 16QAM



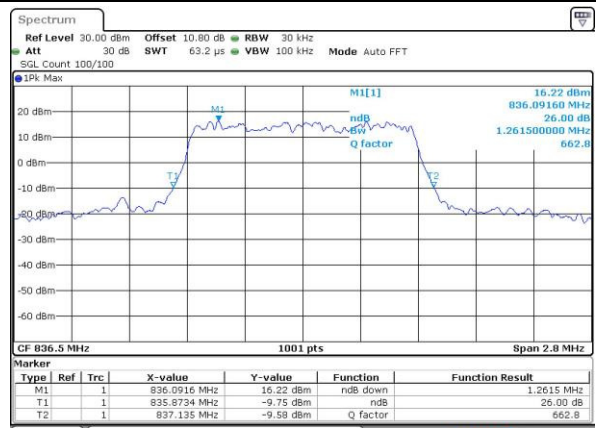
Date: 13 JAN 2017 10:28:50

Middle Channel / 1.4MHz / QPSK



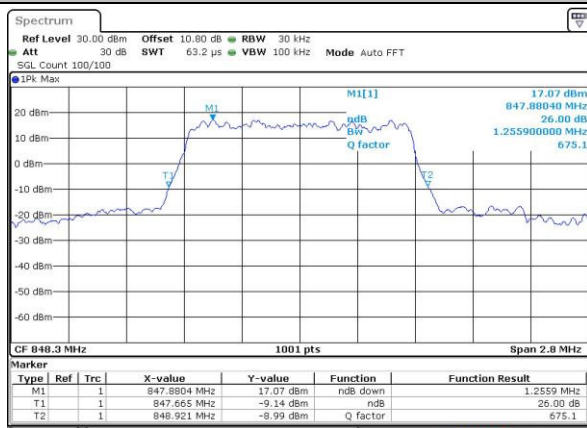
Date: 13 JAN 2017 10:37:56

Middle Channel / 1.4MHz / 16QAM



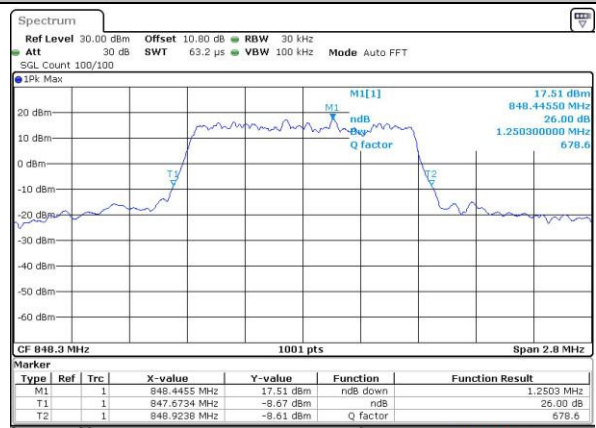
Date: 13 JAN 2017 10:38:07

Highest Channel / 1.4MHz / QPSK



Date: 13 JAN 2017 10:40:26

Highest Channel / 1.4MHz / 16QAM

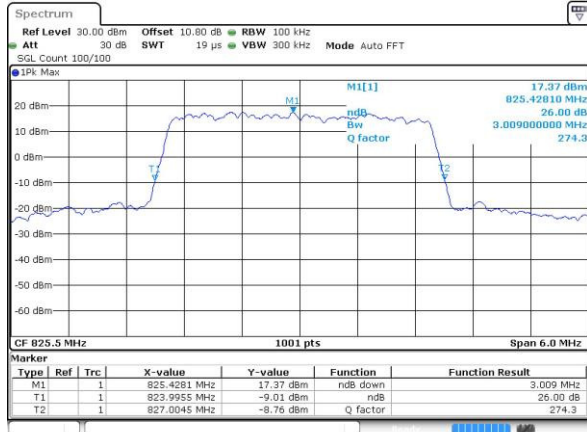


Date: 13 JAN 2017 10:40:36

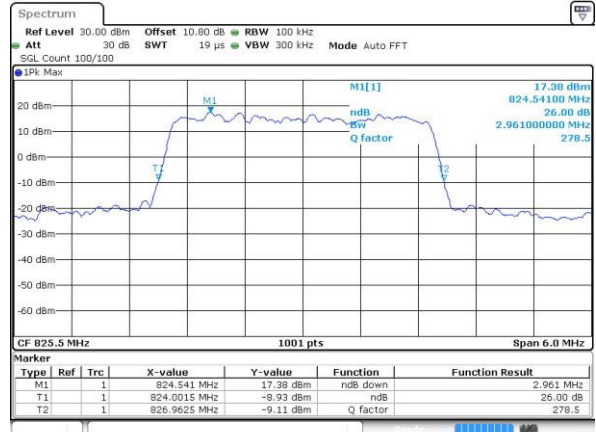


LTE Band 5

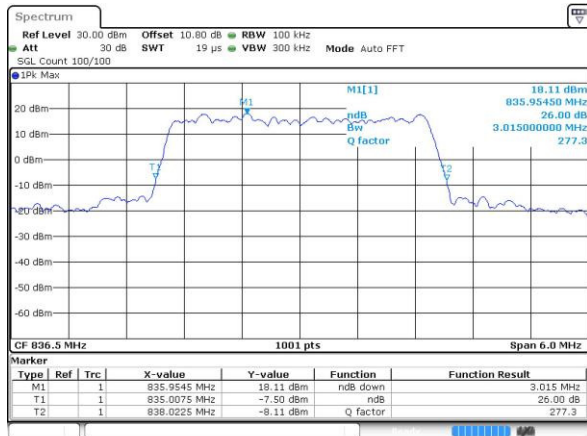
Lowest Channel / 3MHz / QPSK



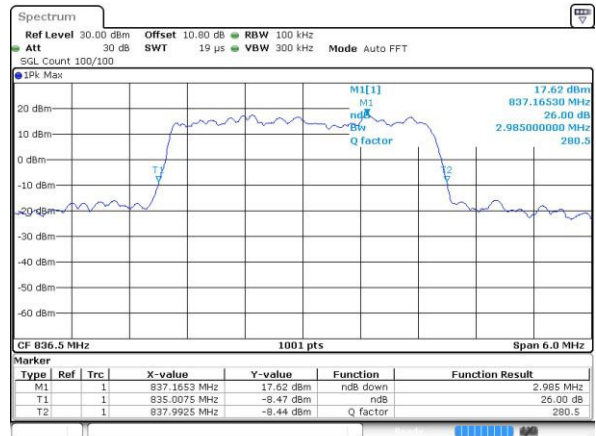
Lowest Channel / 3MHz / 16QAM



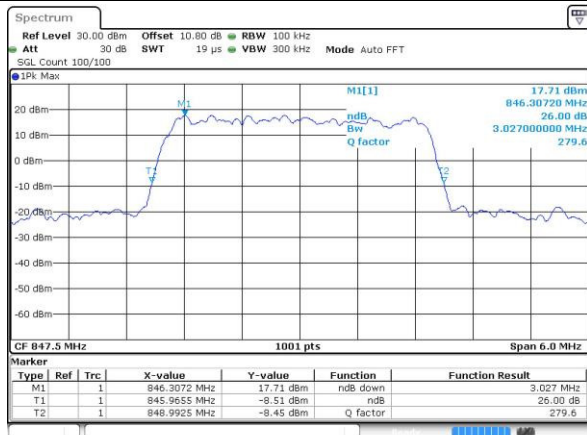
Middle Channel / 3MHz / QPSK



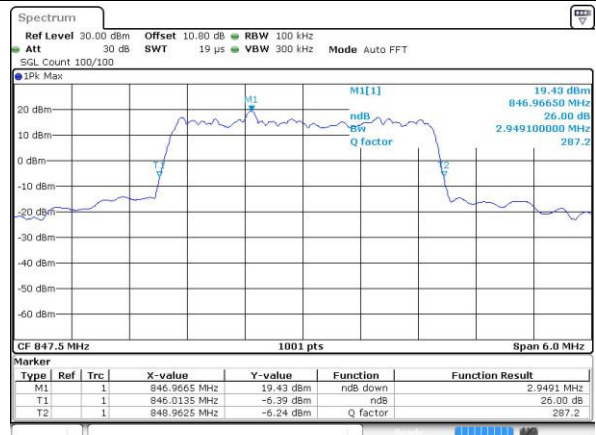
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



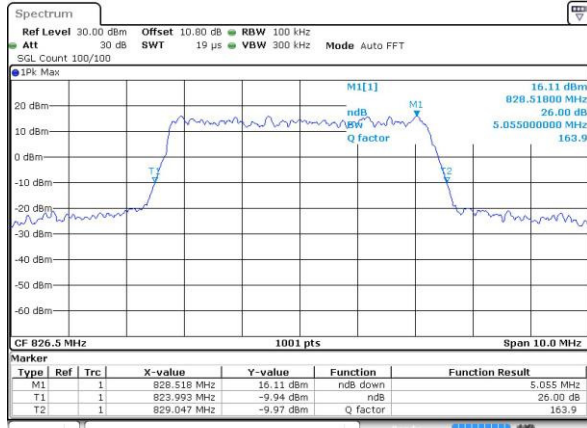
Highest Channel / 3MHz / 16QAM





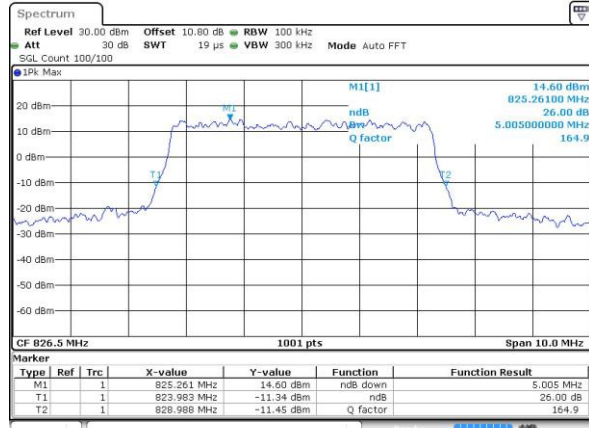
LTE Band 5

Lowest Channel / 5MHz / QPSK



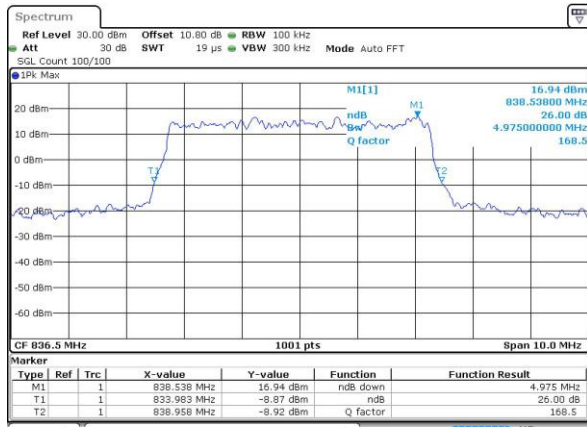
Date: 13 JAN 2017 09:47:23

Lowest Channel / 5MHz / 16QAM



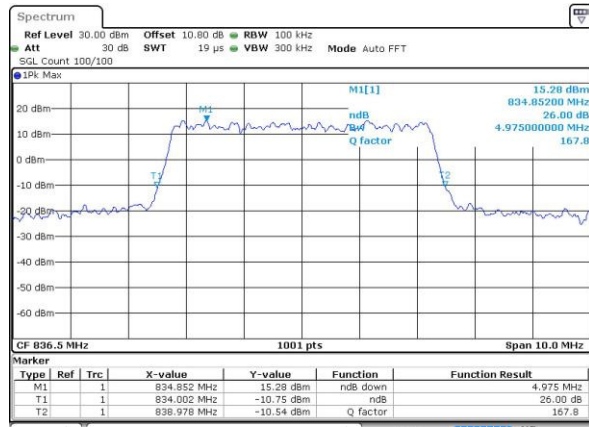
Date: 13 JAN 2017 09:47:33

Middle Channel / 5MHz / QPSK



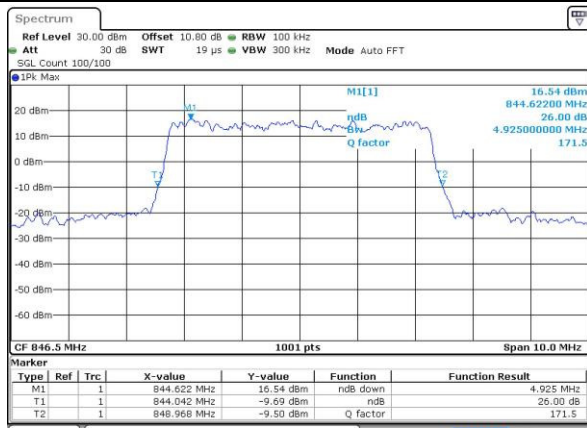
Date: 13 JAN 2017 09:56:29

Middle Channel / 5MHz / 16QAM



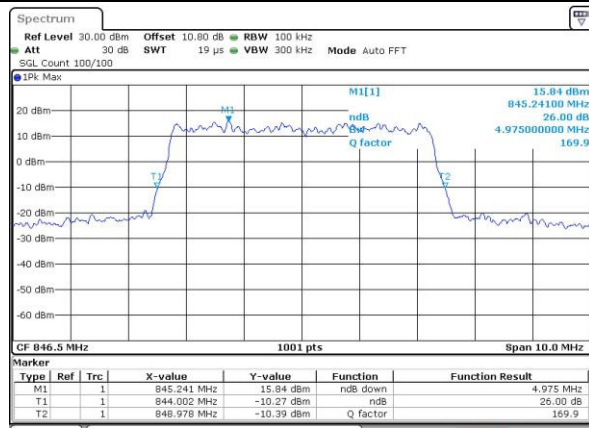
Date: 13 JAN 2017 09:56:40

Highest Channel / 5MHz / QPSK



Date: 13 JAN 2017 09:58:59

Highest Channel / 5MHz / 16QAM

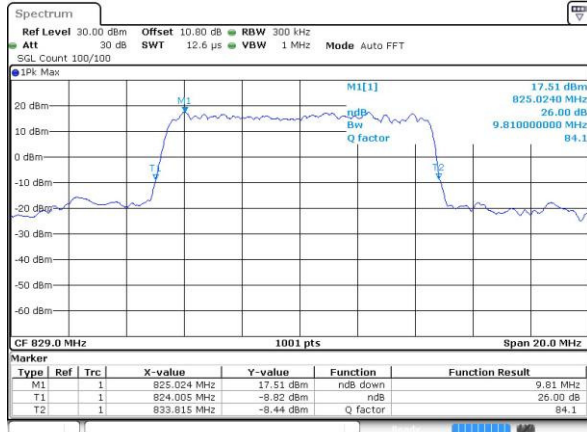


Date: 13 JAN 2017 09:59:09

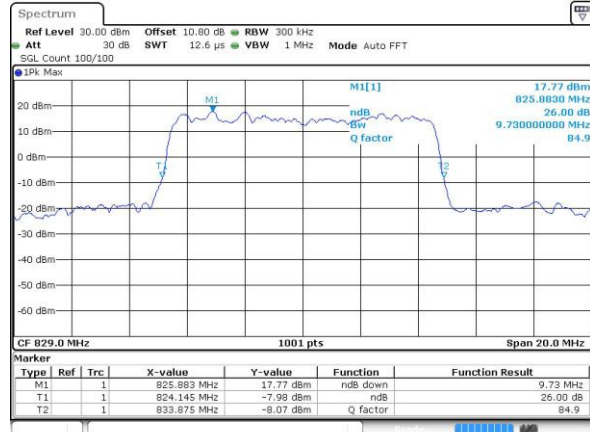


LTE Band 5

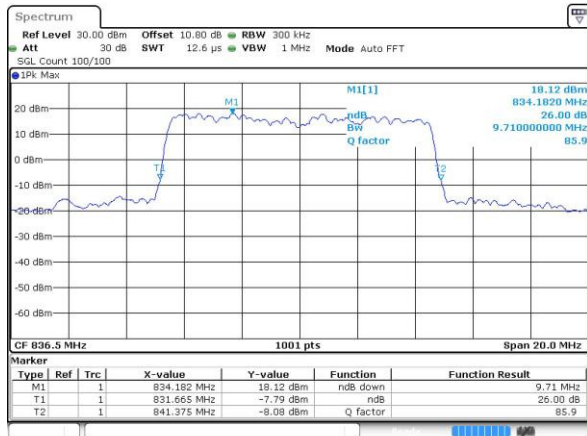
Lowest Channel / 10MHz / QPSK



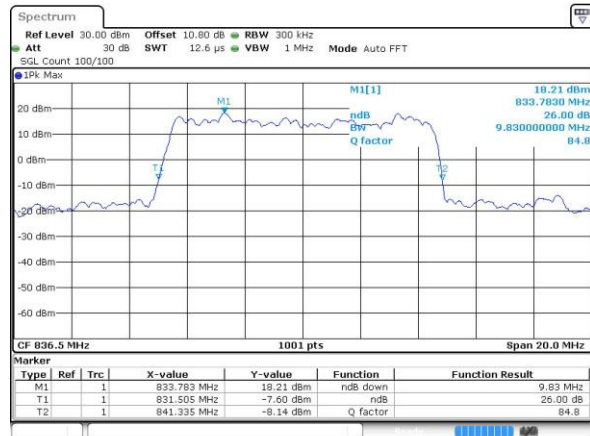
Lowest Channel / 10MHz / 16QAM



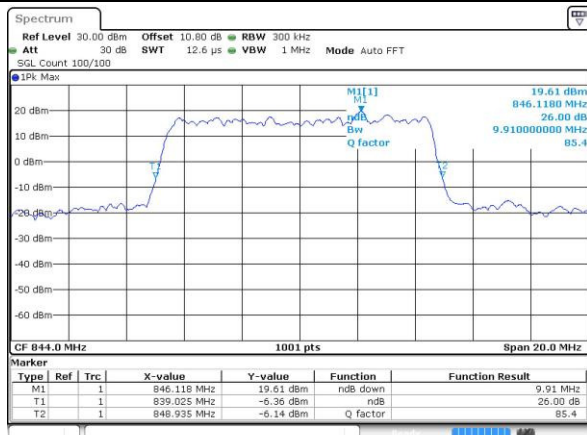
Middle Channel / 10MHz / QPSK



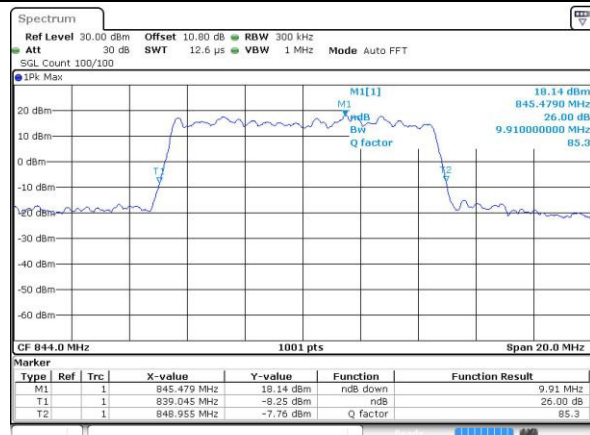
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM



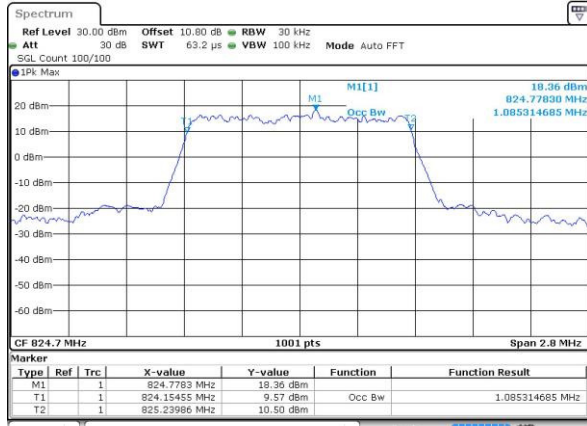
**Occupied Bandwidth**

Mode	LTE Band 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	2.71	2.73	4.53	4.48	9.05	9.09	-	-	-	-
Middle CH	1.09	1.09	2.72	2.72	4.5	4.51	9.03	9.01	-	-	-	-
Highest CH	1.09	1.1	2.74	2.7	4.52	4.5	9.03	9.03	-	-	-	-

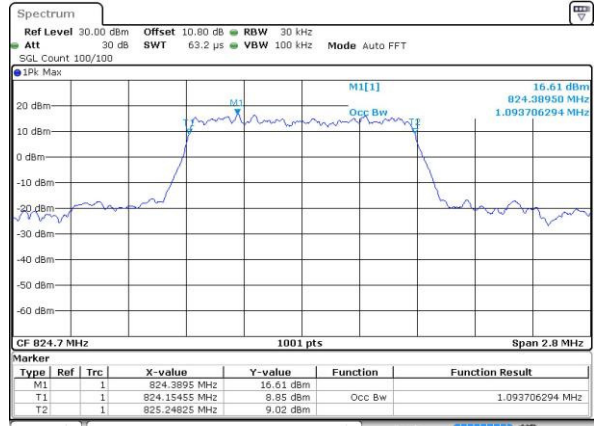


LTE Band 5

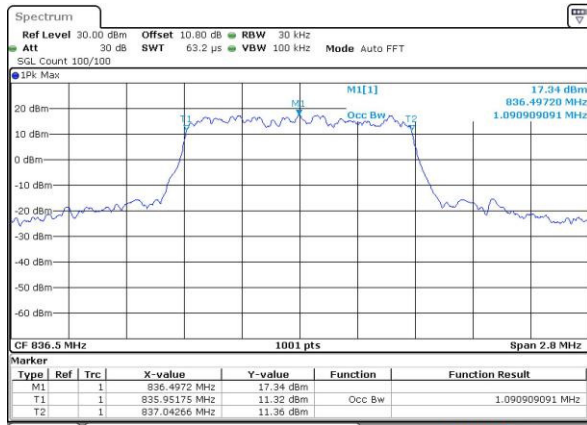
Lowest Channel / 1.4MHz / QPSK



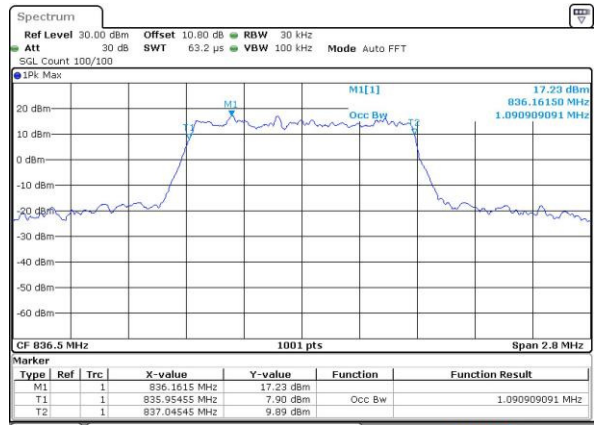
Lowest Channel / 1.4MHz / 16QAM



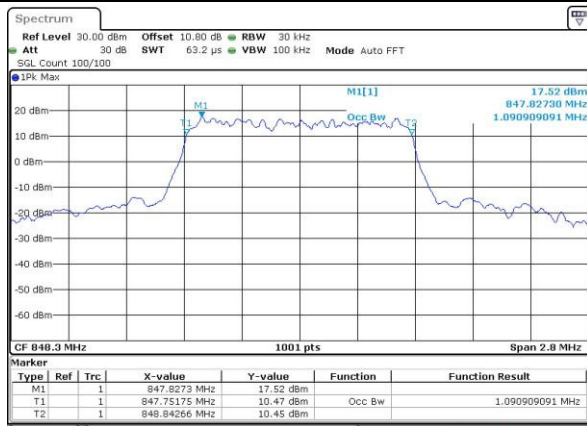
Middle Channel / 1.4MHz / QPSK



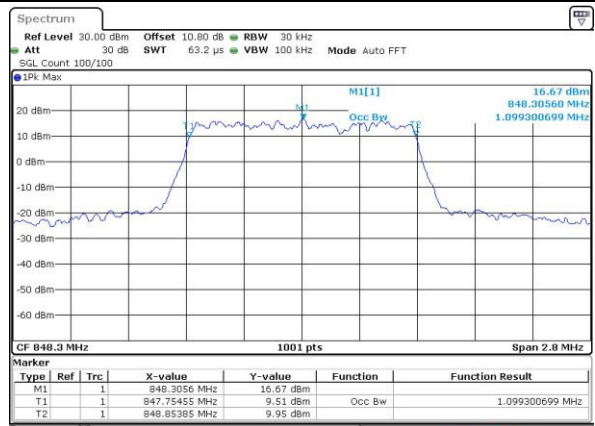
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



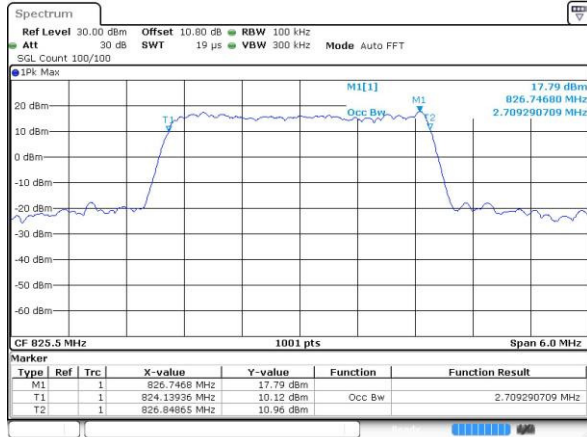
Highest Channel / 1.4MHz / 16QAM



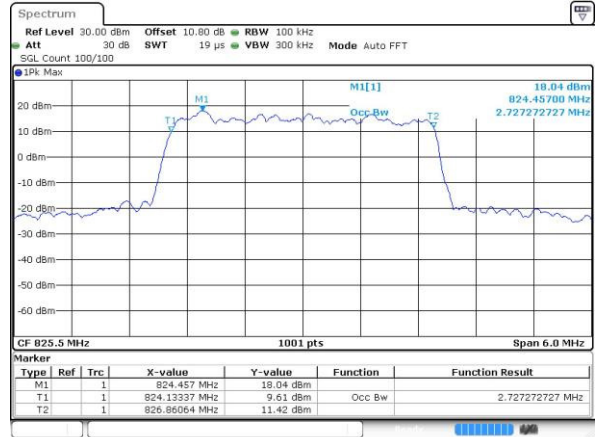


LTE Band 5

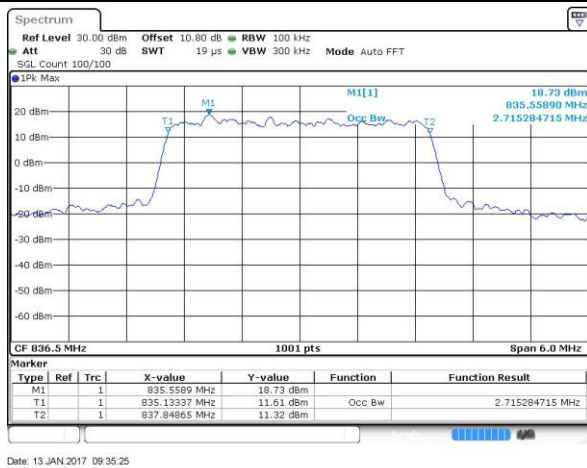
Lowest Channel / 3MHz / QPSK



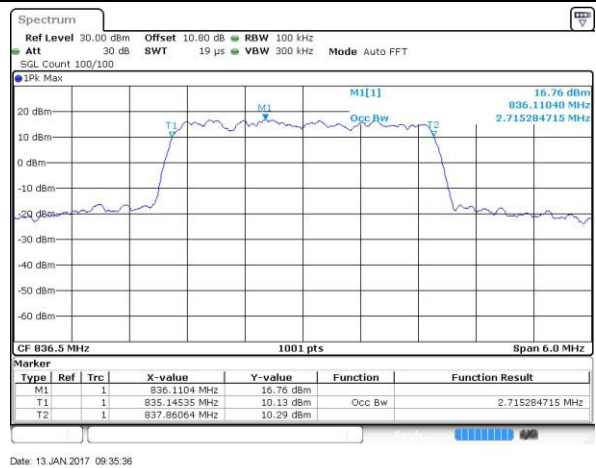
Lowest Channel / 3MHz / 16QAM



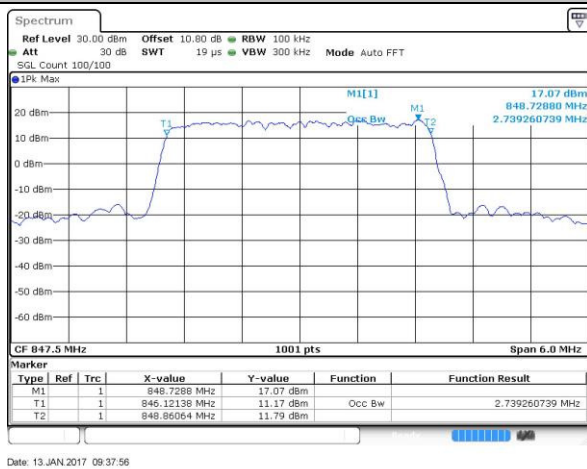
Middle Channel / 3MHz / QPSK



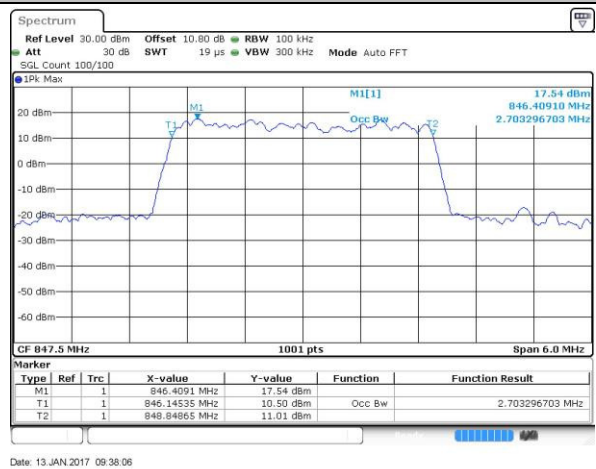
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



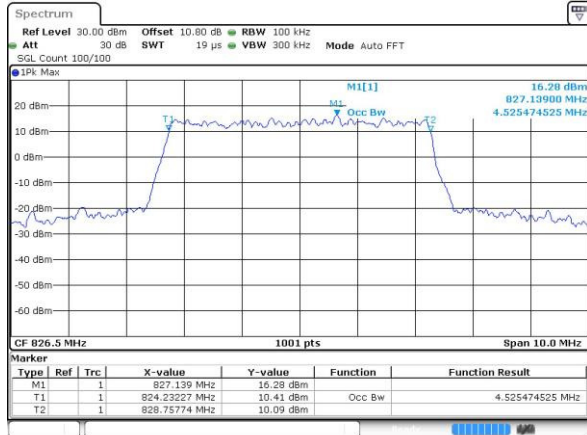
Highest Channel / 3MHz / 16QAM



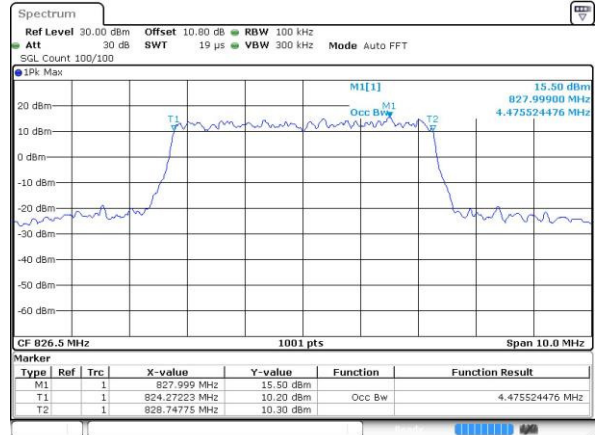


LTE Band 5

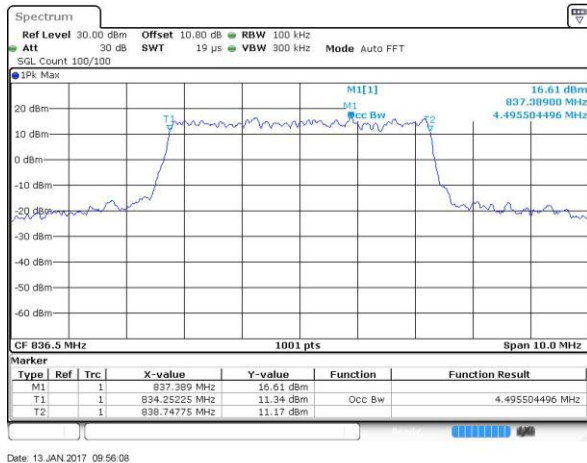
Lowest Channel / 5MHz / QPSK



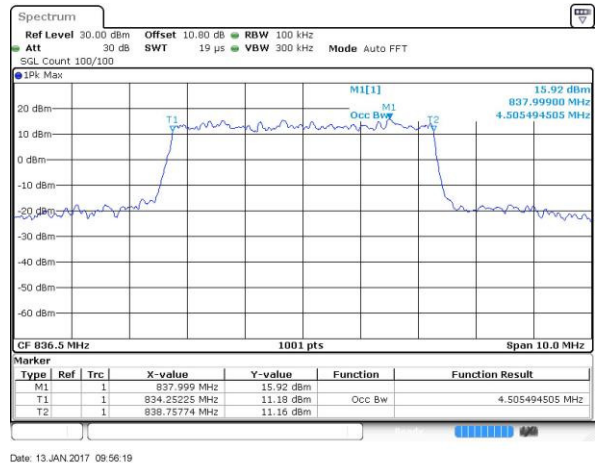
Lowest Channel / 5MHz / 16QAM



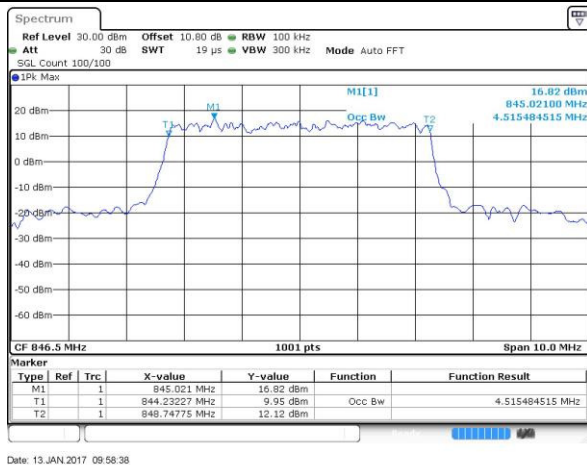
Middle Channel / 5MHz / QPSK



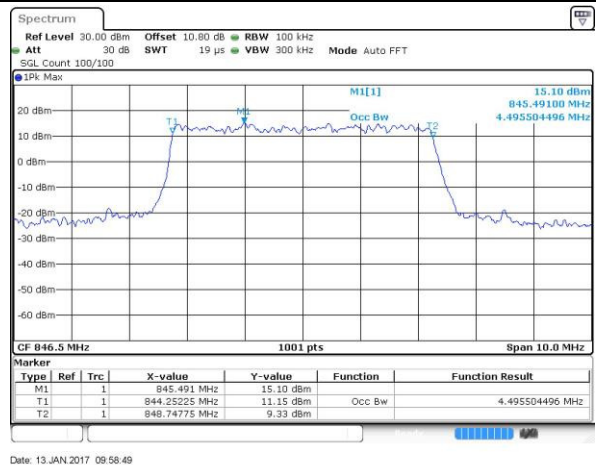
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



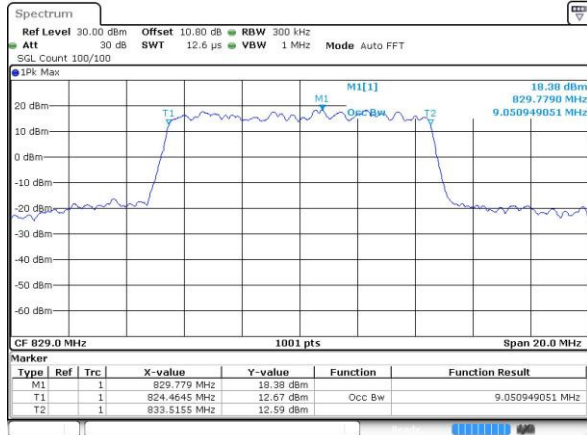
Highest Channel / 5MHz / 16QAM



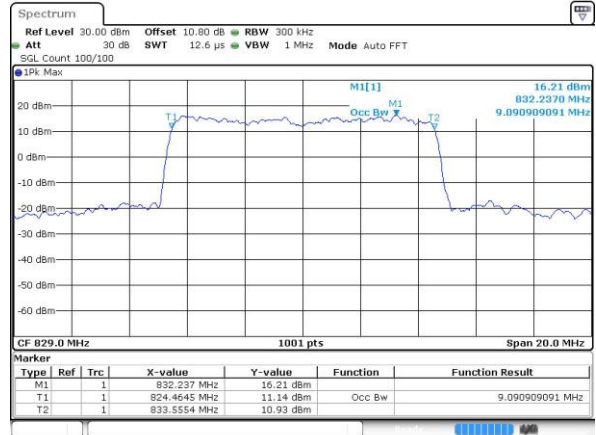


LTE Band 5

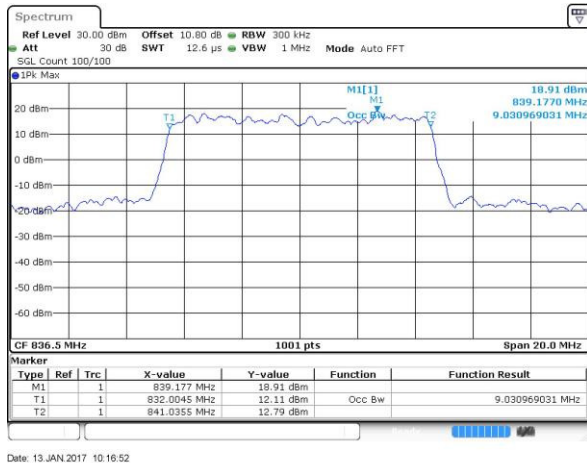
Lowest Channel / 10MHz / QPSK



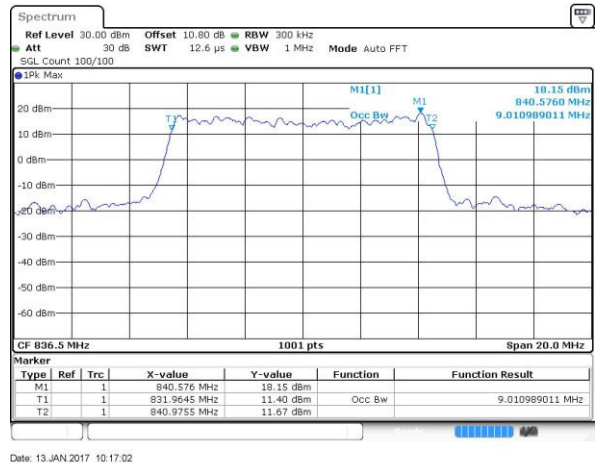
Lowest Channel / 10MHz / 16QAM



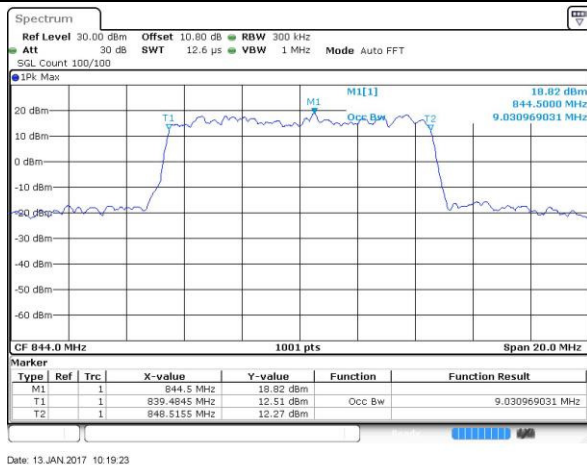
Middle Channel / 10MHz / QPSK



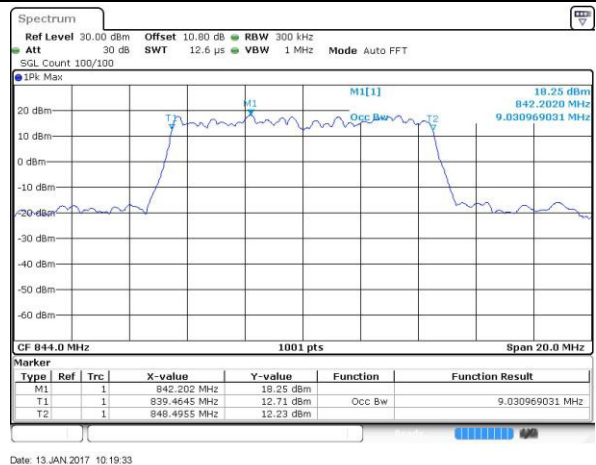
Middle Channel / 10MHz / 16QAM

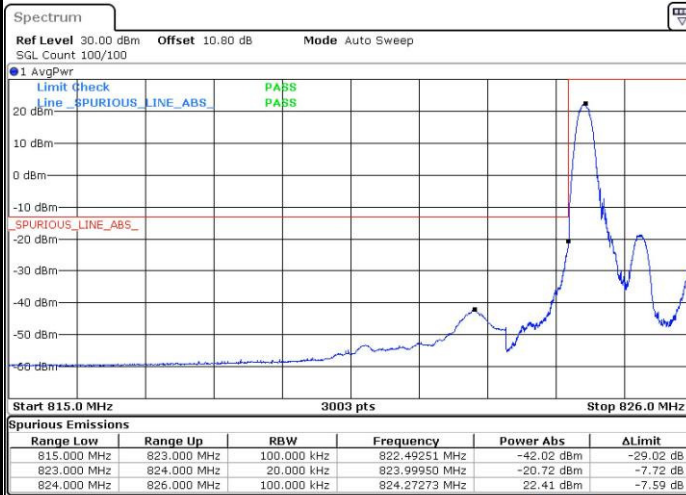
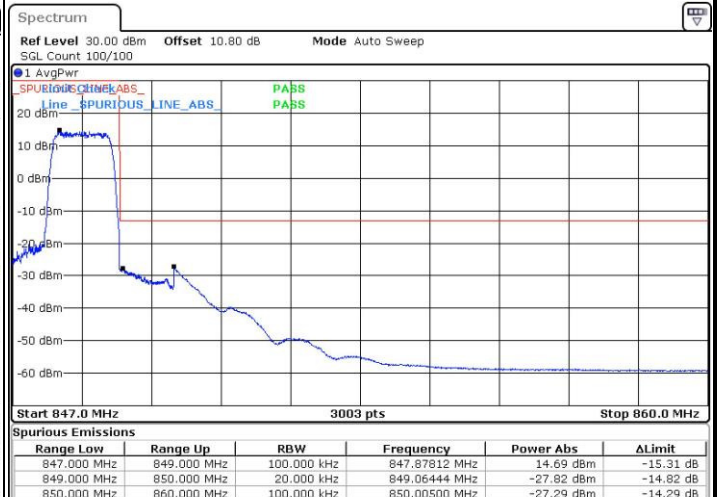


Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM



**Conducted Band Edge****LTE Band 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

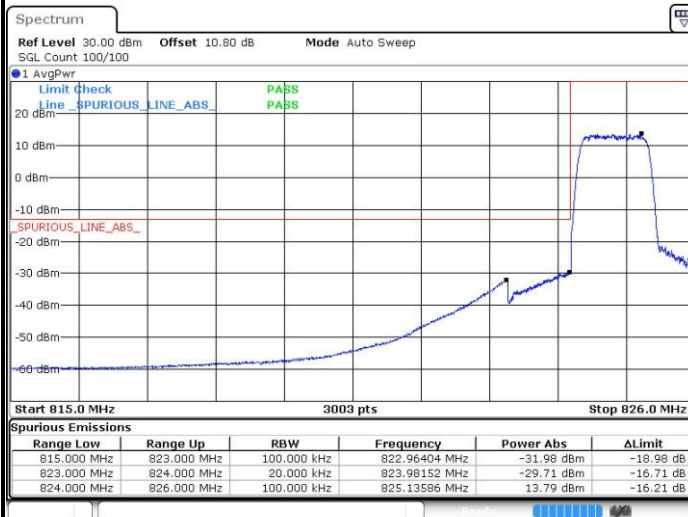
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



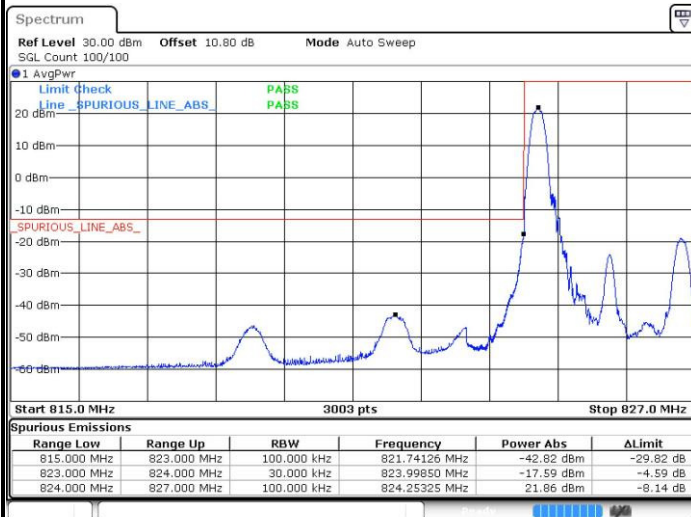
Highest Band Edge / Full RB



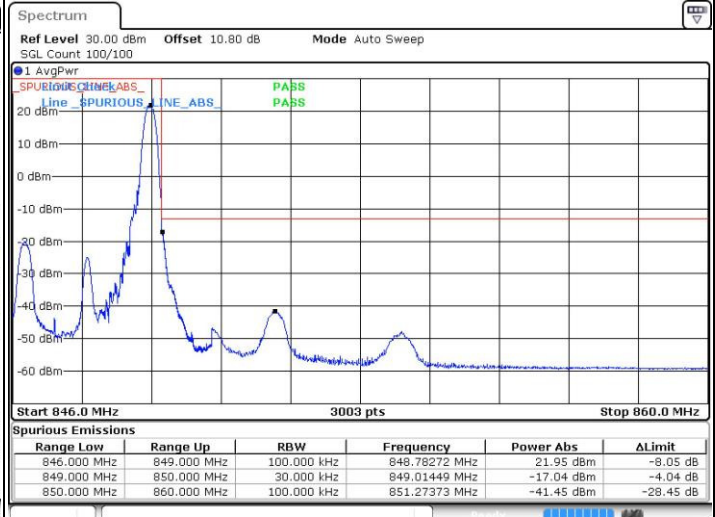


LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



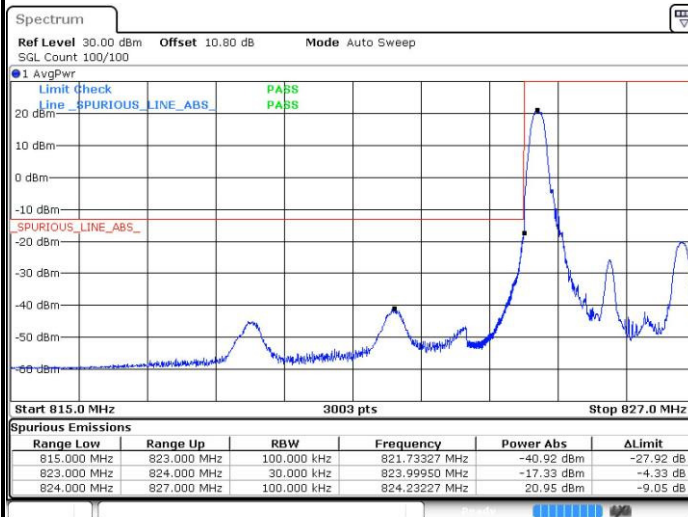
Highest Band Edge / Full RB



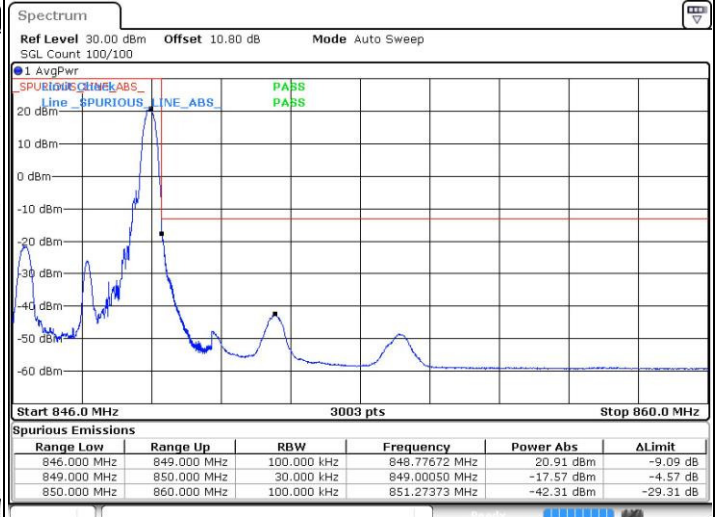


LTE Band 5 / 3MHz / 16QAM

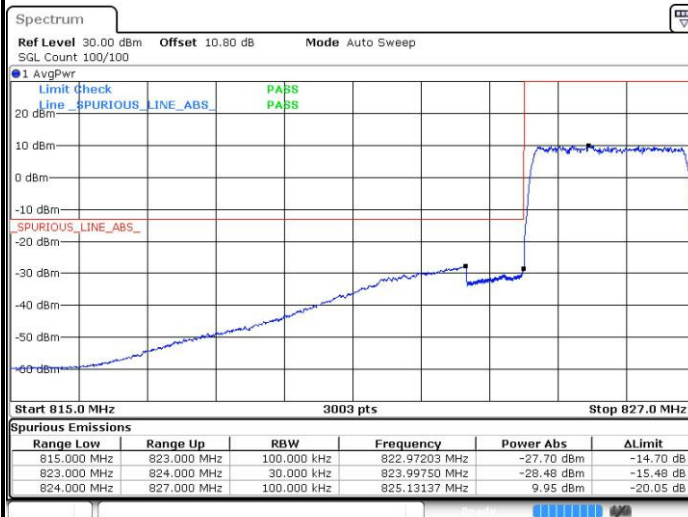
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



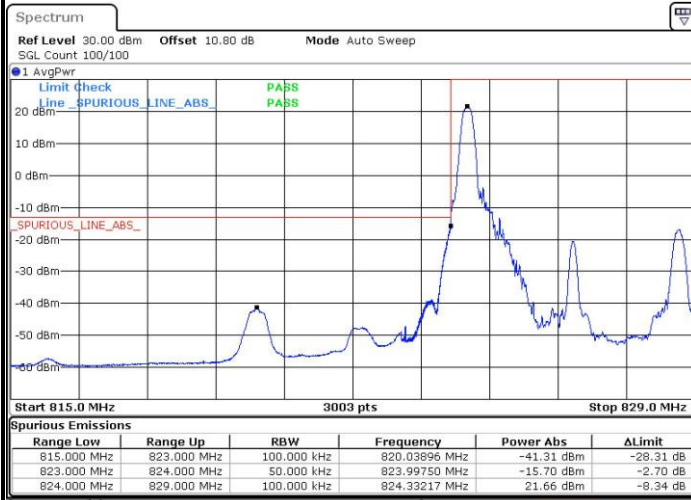
Highest Band Edge / Full RB





LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / 1 RB



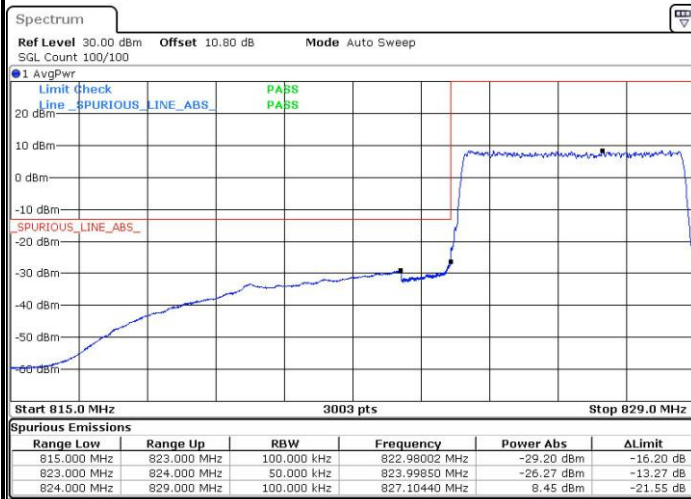
Date: 13 JAN 2017 09:49:12

Highest Band Edge / 1 RB



Date: 13 JAN 2017 10:00:48

Lowest Band Edge / Full RB



Date: 13 JAN 2017 09:52:30

Highest Band Edge / Full RB



Date: 13 JAN 2017 10:04:06