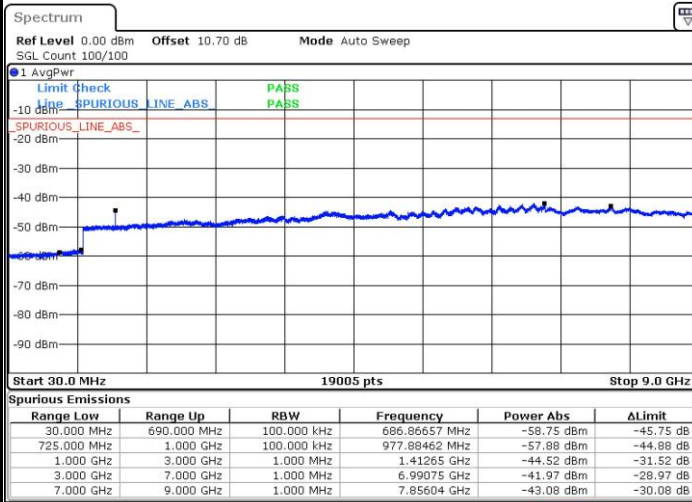




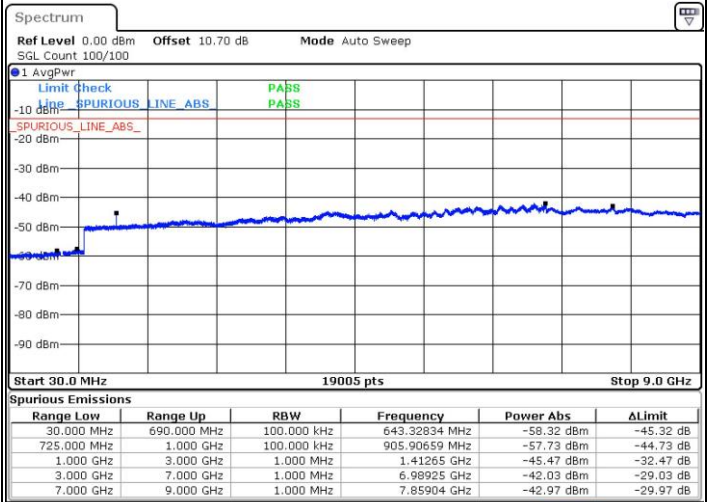
LTE Band 12 / 3MHz

Middle Channel / QPSK



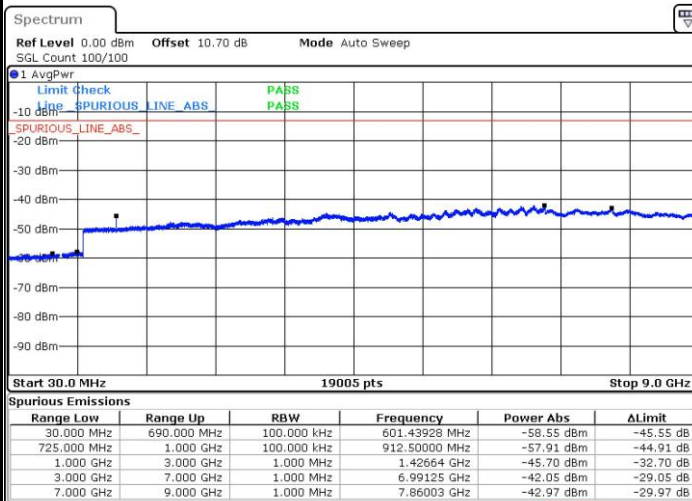
Date: 13 JUN 2017 09:13:02

Middle Channel / 16QAM



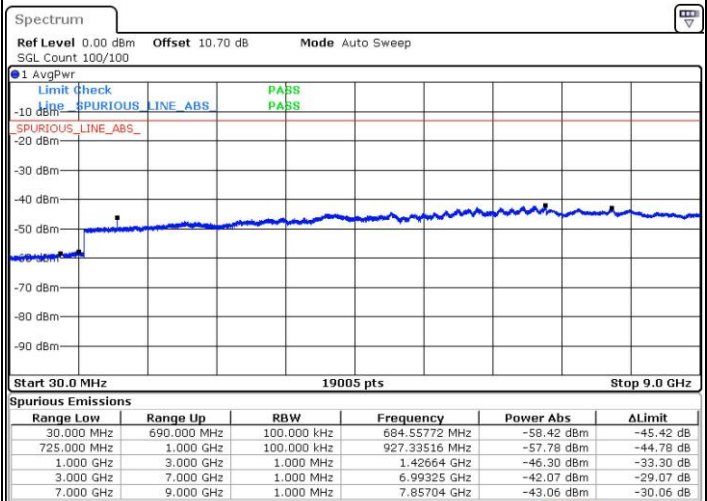
Date: 13 JUN 2017 09:12:08

Highest Channel / QPSK



Date: 13 JUN 2017 09:19:14

Highest Channel / 16QAM

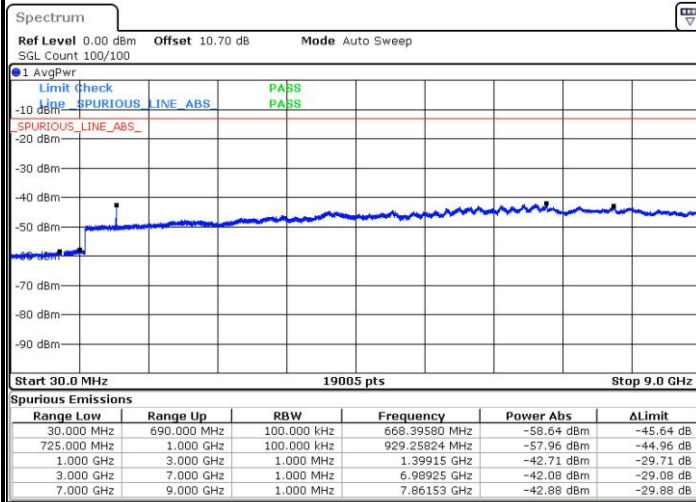


Date: 13 JUN 2017 09:20:09



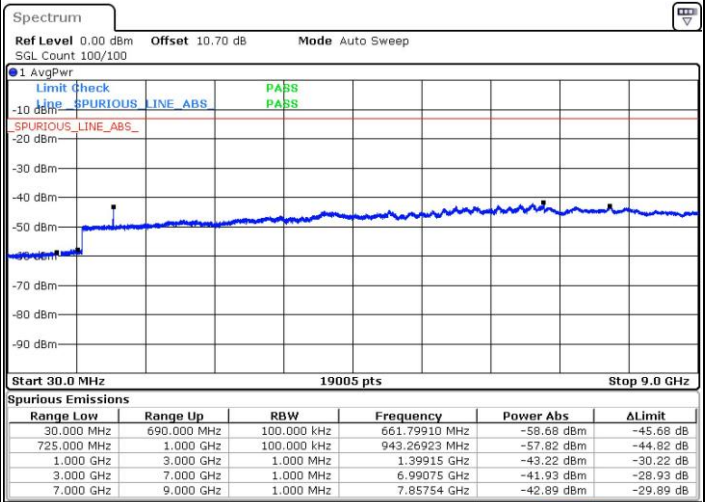
LTE Band 12 / 5MHz

Lowest Channel / QPSK



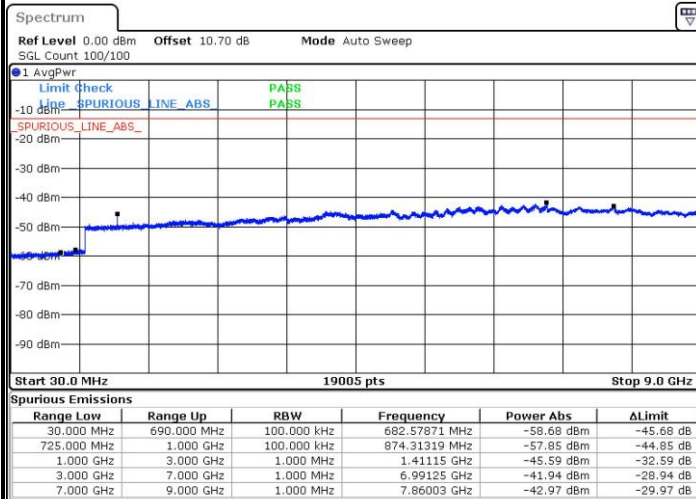
Date: 13 JUN 2017 09:26:21

Lowest Channel / 16QAM



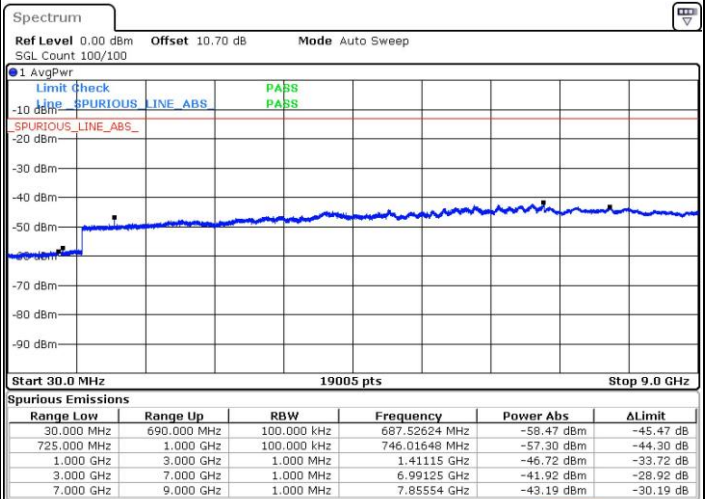
Date: 13 JUN 2017 09:27:15

Middle Channel / QPSK



Date: 13 JUN 2017 09:29:46

Middle Channel / 16QAM

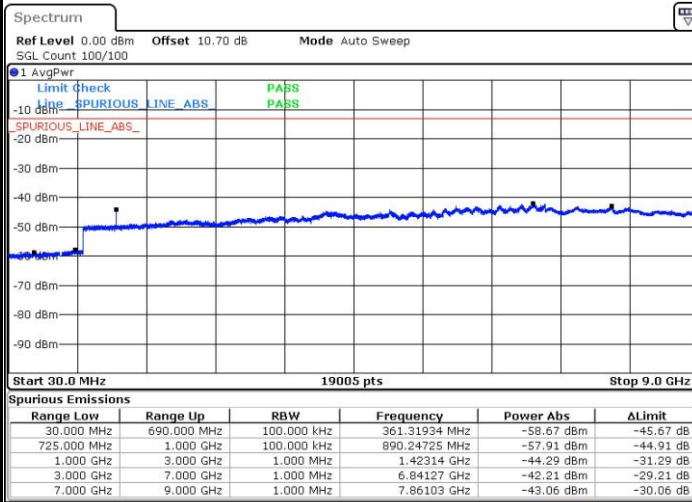


Date: 13 JUN 2017 09:28:51



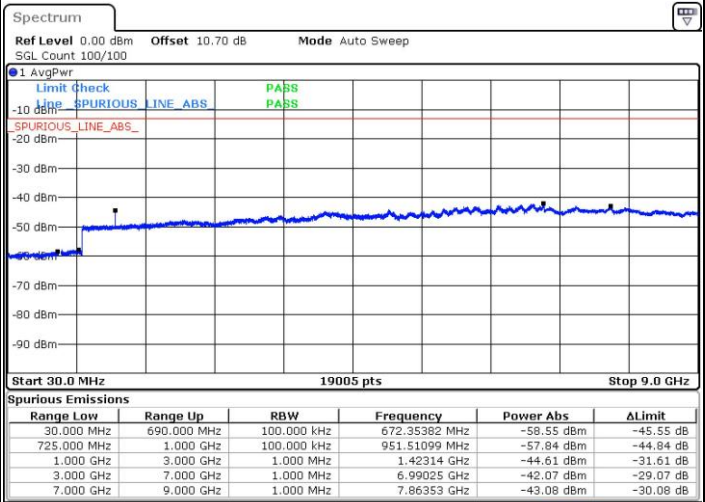
LTE Band 12 / 5MHz

Highest Channel / QPSK



Date: 13 JUN 2017 09:36:52

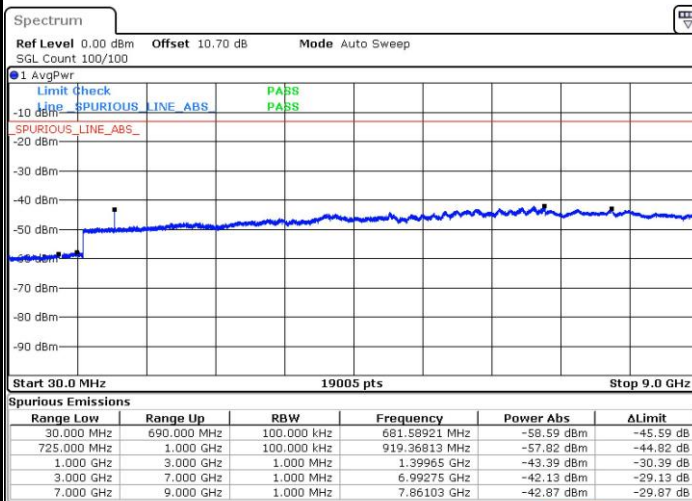
Highest Channel / 16QAM



Date: 13 JUN 2017 09:35:58

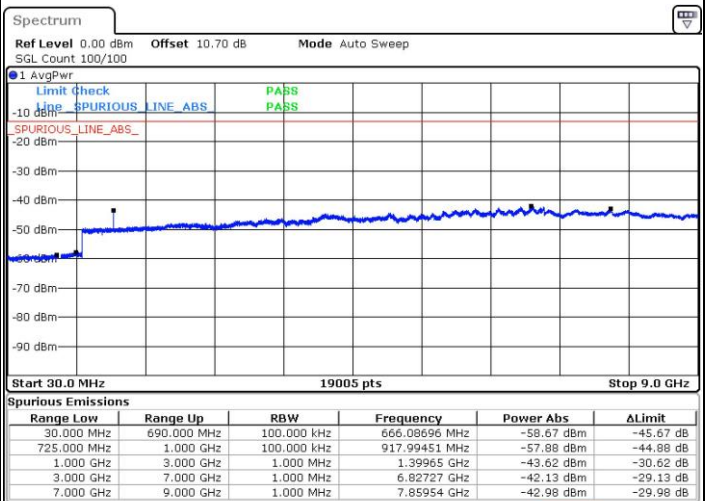
LTE Band 12 / 10MHz

Lowest Channel / QPSK



Date: 13 JUN 2017 09:43:04

Lowest Channel / 16QAM

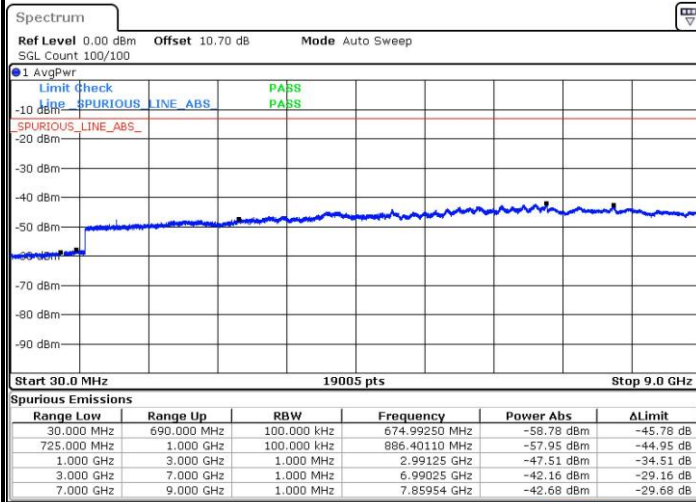


Date: 13 JUN 2017 09:43:59



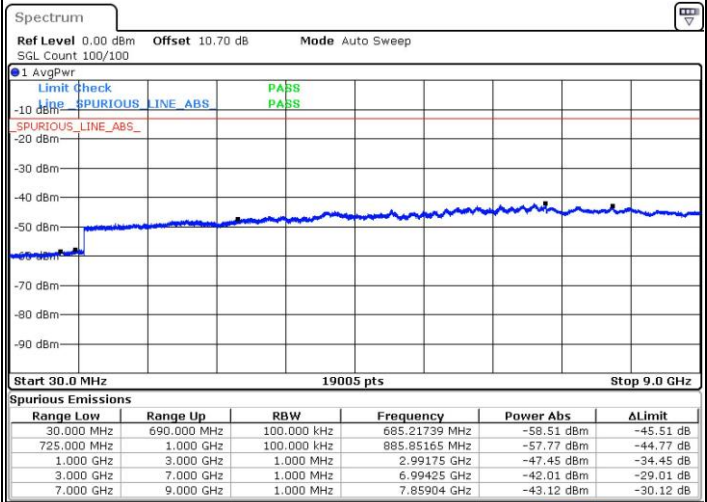
LTE Band 12 / 10MHz

Middle Channel / QPSK



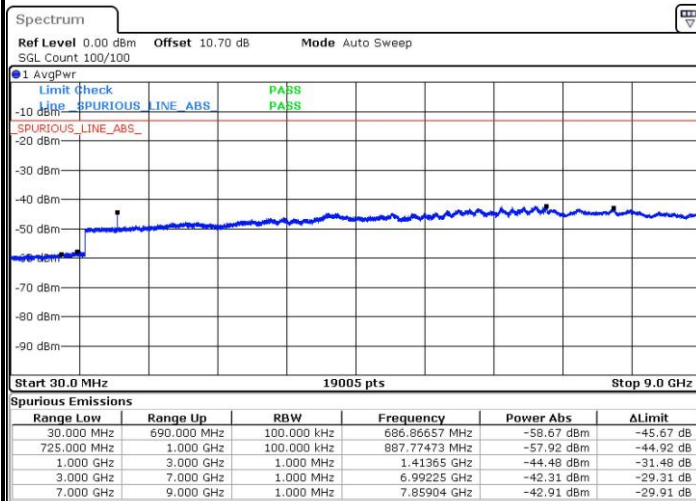
Date: 13 JUN 2017 09:46:28

Middle Channel / 16QAM



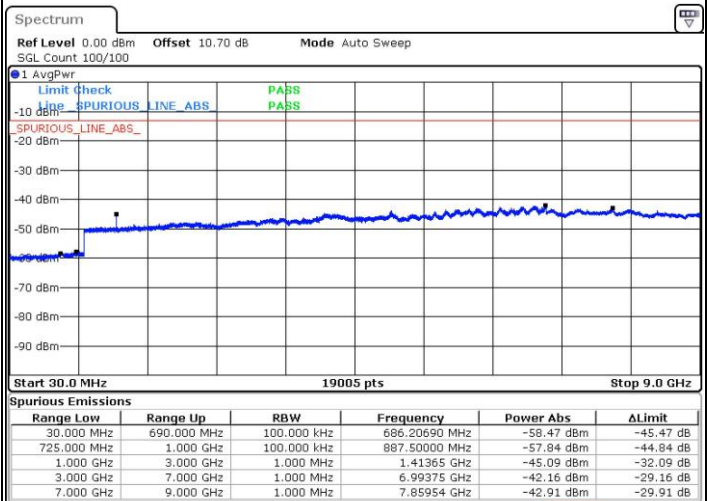
Date: 13 JUN 2017 09:45:34

Highest Channel / QPSK



Date: 13 JUN 2017 09:52:41

Highest Channel / 16QAM

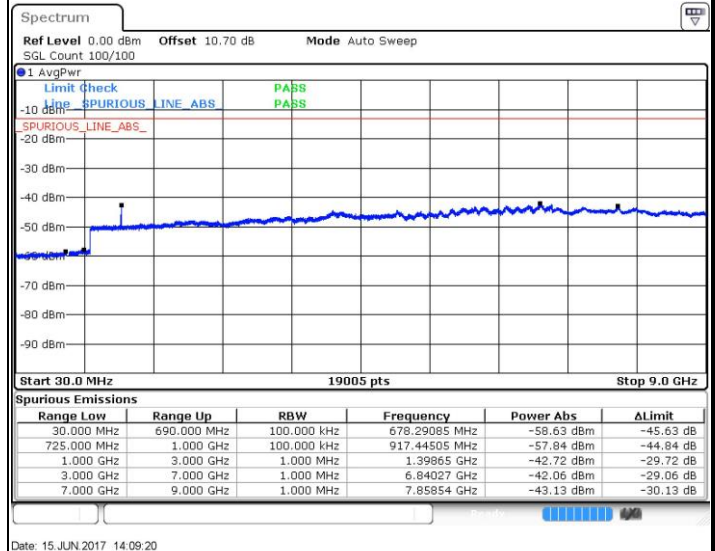


Date: 13 JUN 2017 09:53:35

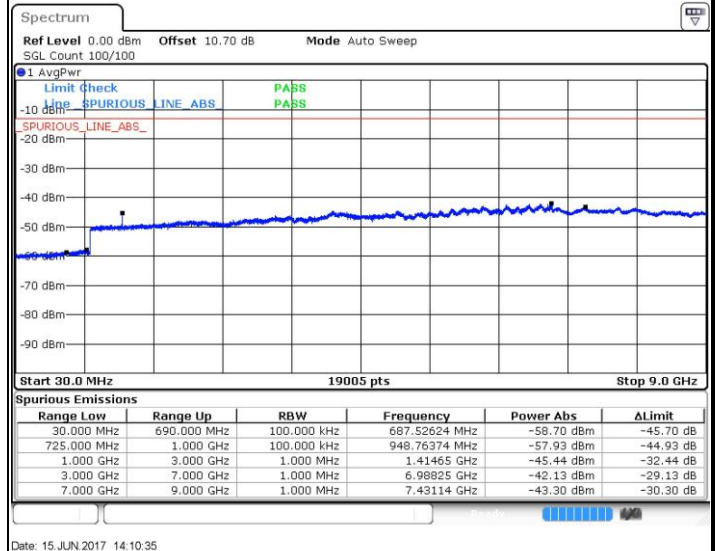


LTE Band 12 / 1.4MHz

Lowest Channel / 64QAM



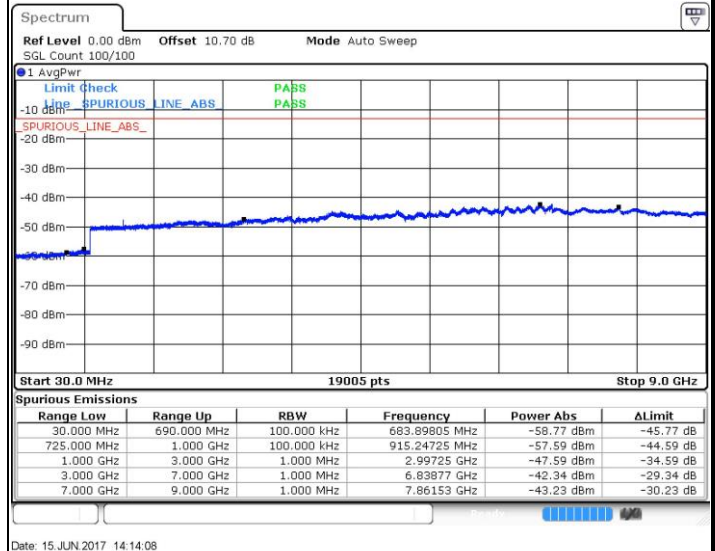
Middle Channel / 64QAM





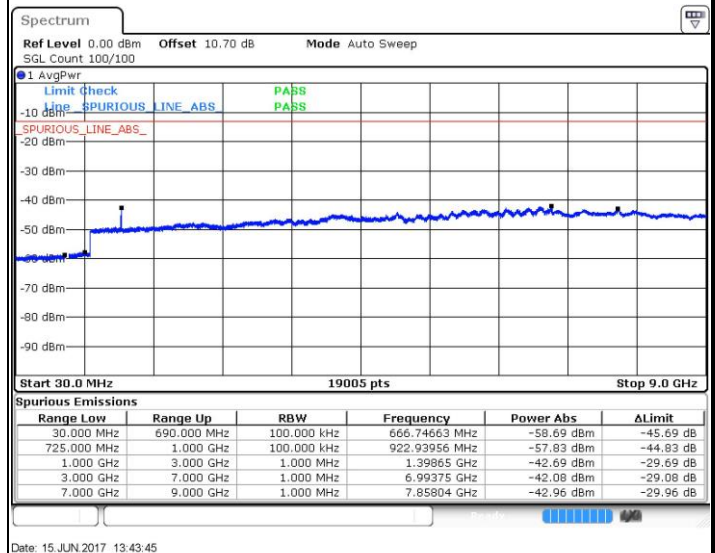
LTE Band 12 / 1.4MHz

Highest Channel / 64QAM



LTE Band 12 / 3MHz

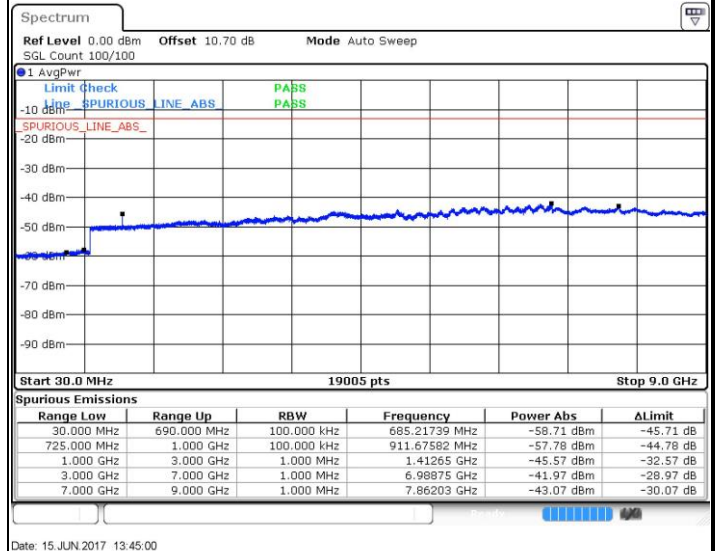
Lowest Channel / 64QAM



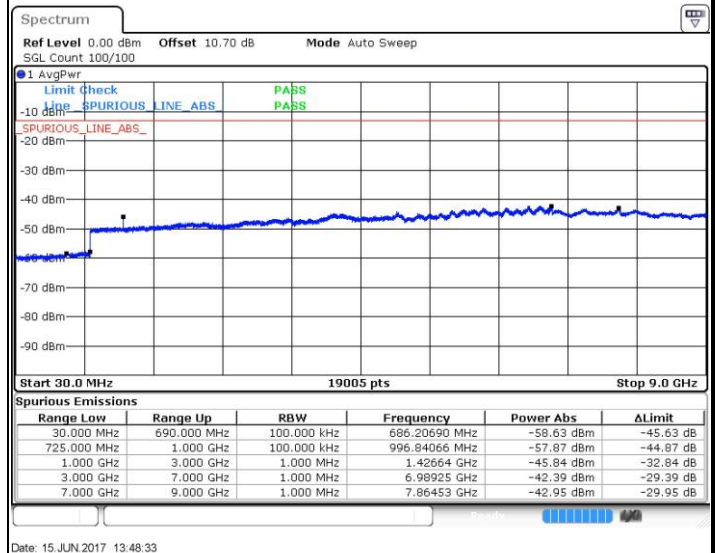


LTE Band 12 / 3MHz

Middle Channel / 64QAM



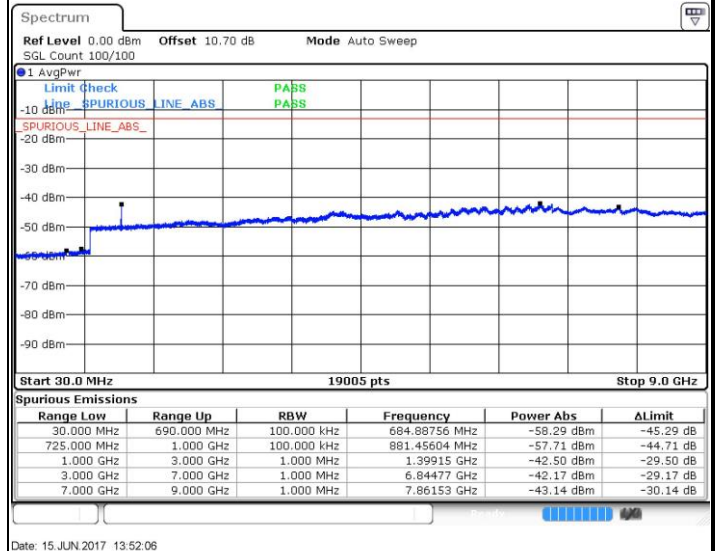
Highest Channel / 64QAM



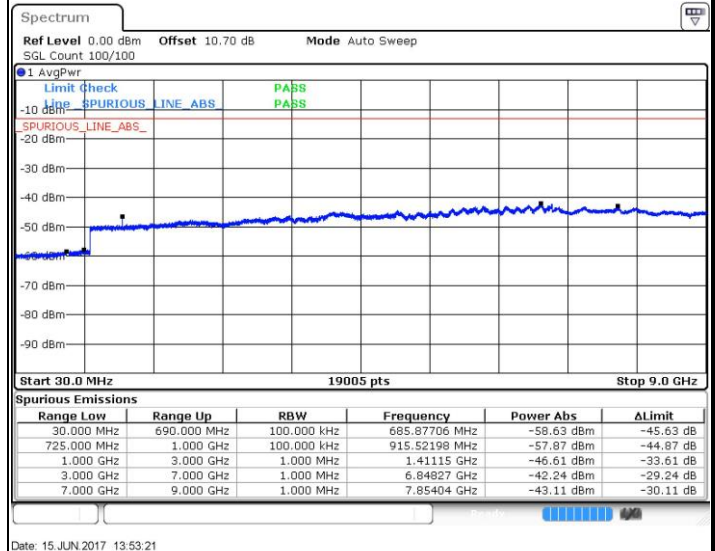


LTE Band 12 / 5MHz

Lowest Channel / 64QAM



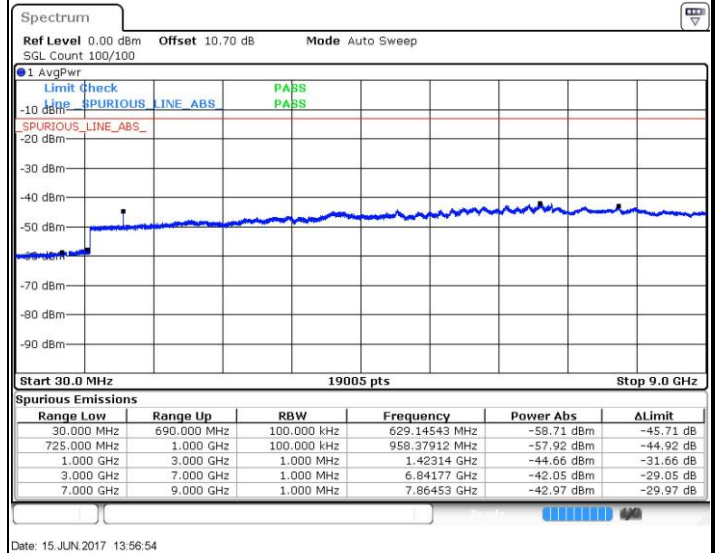
Middle Channel / 64QAM





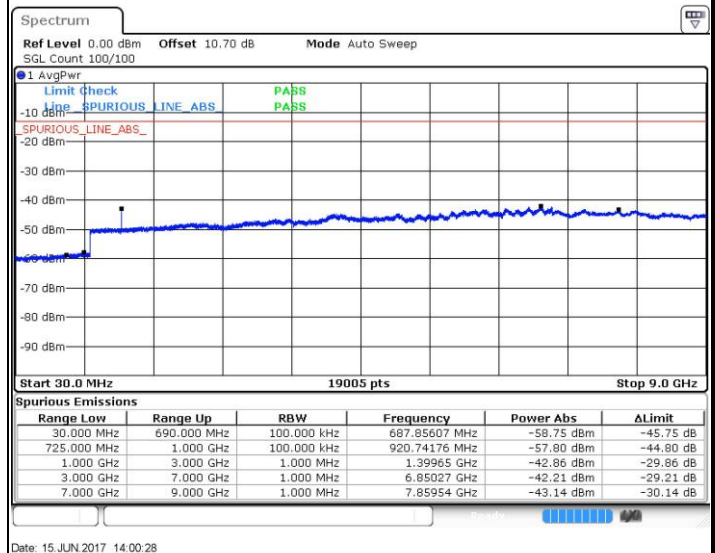
LTE Band 12 / 5MHz

Highest Channel / 64QAM



LTE Band 12 / 10MHz

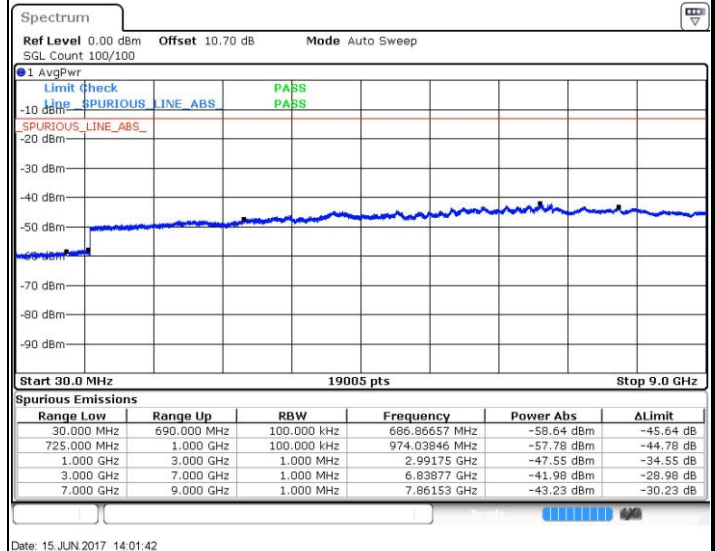
Lowest Channel / 64QAM



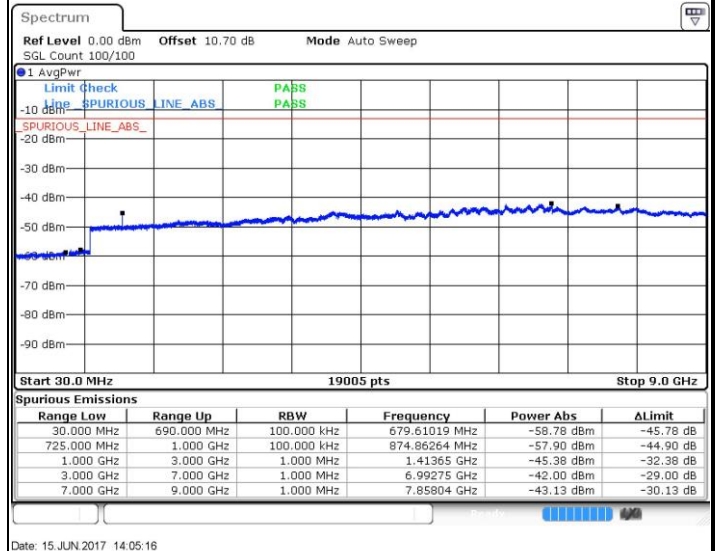


LTE Band 12 / 10MHz

Middle Channel / 64QAM



Highest Channel / 64QAM



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	0.0014	PASS
40	Normal Voltage	0.0013	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0064	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0033	
-20	Normal Voltage	0.0035	
-30	Normal Voltage	0.0086	
20	Maximum Voltage	0.0147	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0037	

Note:

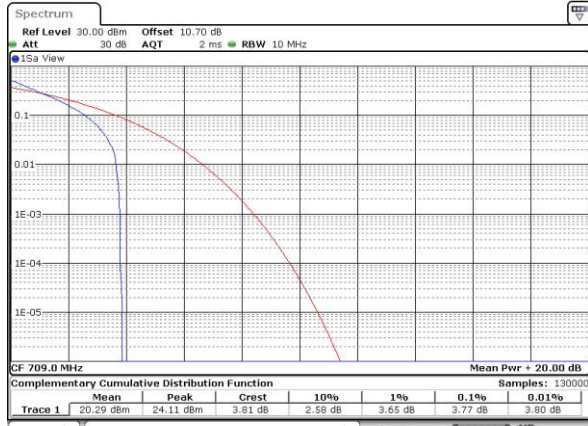
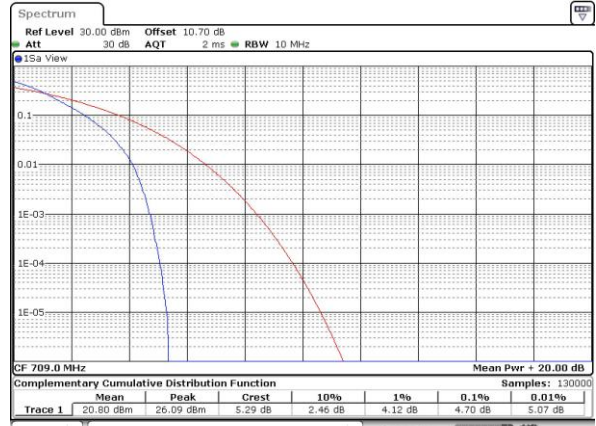
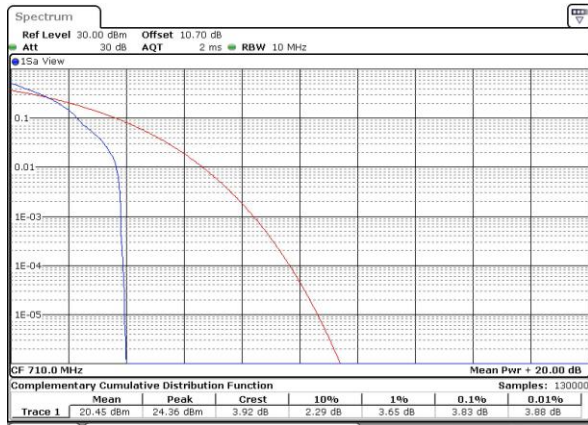
1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 17

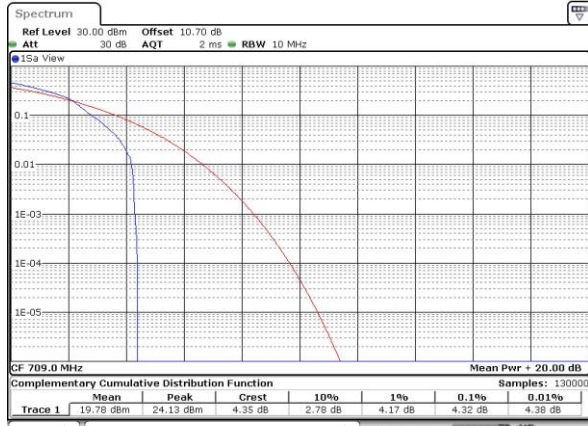
Peak-to-Average Ratio

Mode	LTE Band 17 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.77	4.7	4.32	5.71	PASS
Middle CH	3.83	4.61	4.67	5.62	
Highest CH	4.09	4.43	4.9	5.54	
Mode	LTE Band 17 / 10MHz				
Mod.	QPSK		64QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	4.67	5.65	PASS
Middle CH	-	-	5.25	5.57	
Highest CH	-	-	4.7	5.45	

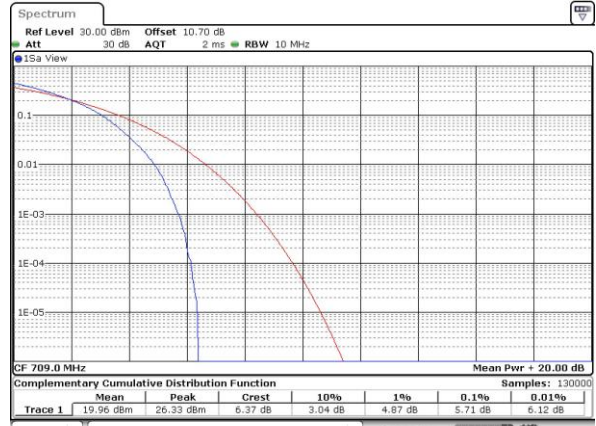
LTE Band 17 / 10MHz / QPSK
Lowest Channel / 1RB

Lowest Channel / Full RB

Middle Channel/ 1RB

Middle Channel / Full RB

Highest Channel/ 1RB

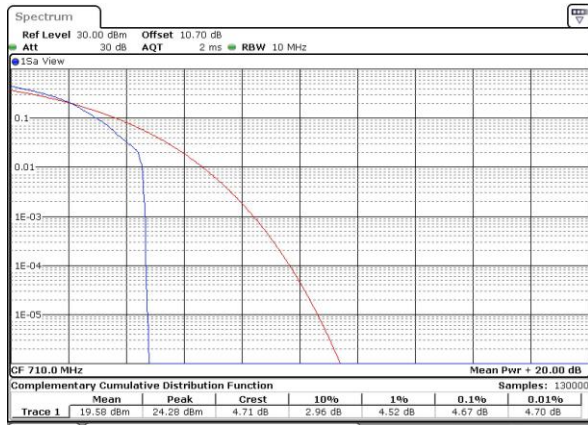
Highest Channel / Full RB


LTE Band 17 / 10MHz / 16QAM
Lowest Channel / 1RB


Date: 13 JUN 2017 10:44:49

Lowest Channel / Full RB


Date: 13 JUN 2017 10:45:04

Middle Channel/ 1RB


Date: 13 JUN 2017 10:46:27

Middle Channel / Full RB


Date: 13 JUN 2017 10:47:47

Highest Channel/ 1RB


Date: 13 JUN 2017 10:47:57

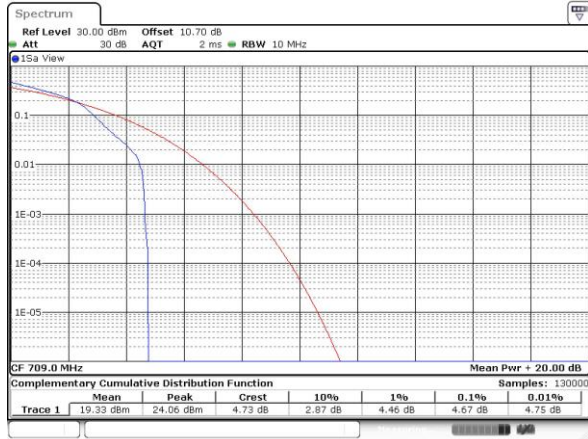
Highest Channel / Full RB


Date: 13 JUN 2017 10:48:10

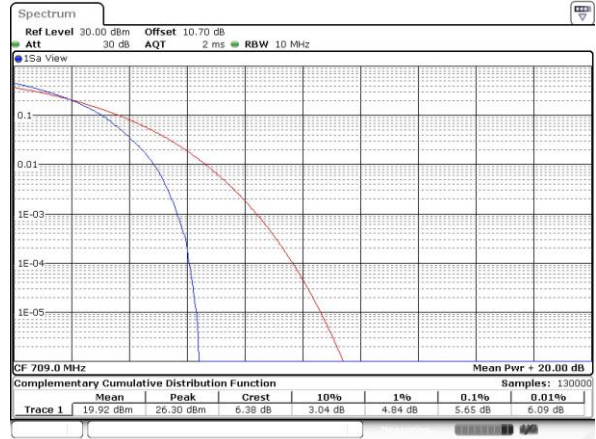


LTE Band 17 / 10MHz / 64QAM

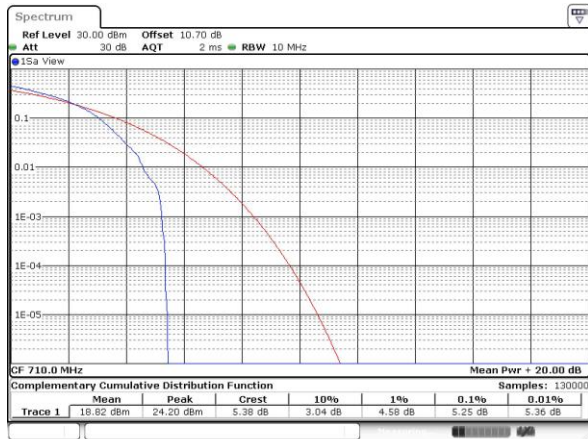
Lowest Channel / 1RB



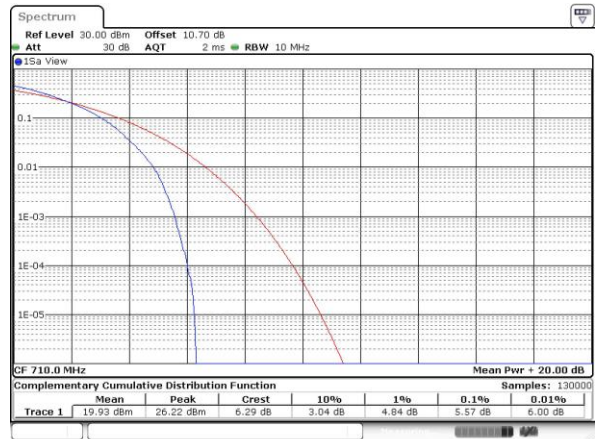
Lowest Channel / Full RB



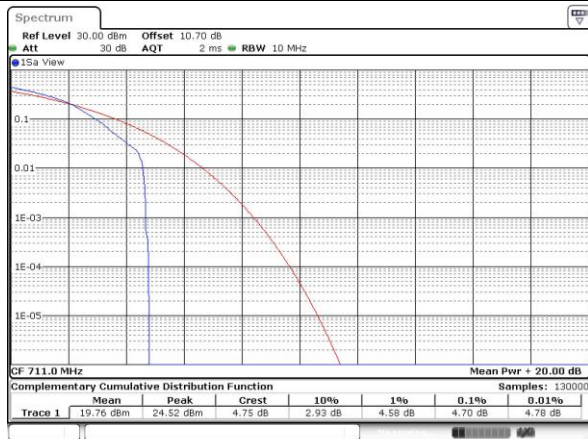
Middle Channel/ 1RB



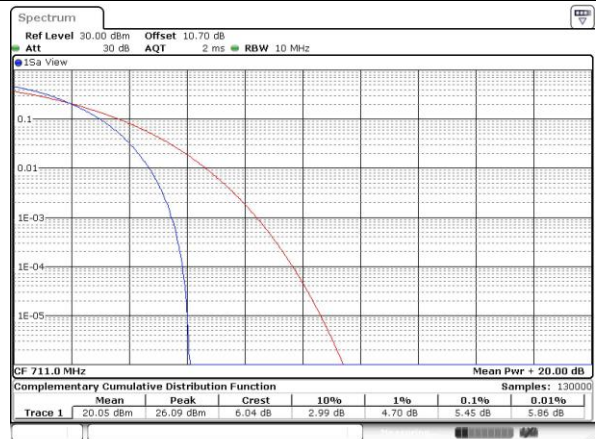
Middle Channel / Full RB



Highest Channel/ 1RB



Highest Channel / Full RB



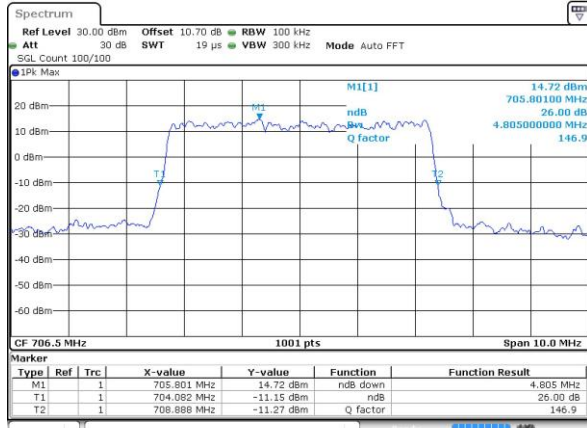
**26dB Bandwidth**

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	-	-	-	-	4.805	4.955	9.91	9.85	-	-	-	-
Middle CH	-	-	-	-	4.985	4.895	9.67	9.81	-	-	-	-
Highest CH	-	-	-	-	4.925	4.875	9.73	9.63	-	-	-	-
Mode	LTE Band 17 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	64QAM	QPSK	64QAM	QPSK	64QAM	QPSK	64QAM	QPSK	64QAM	QPSK	64QAM
Lowest CH	-	-	-	-	-	4.965	-	9.73	-	-	-	-
Middle CH	-	-	-	-	-	4.895	-	9.75	-	-	-	-
Highest CH	-	-	-	-	-	4.835	-	9.73	-	-	-	-



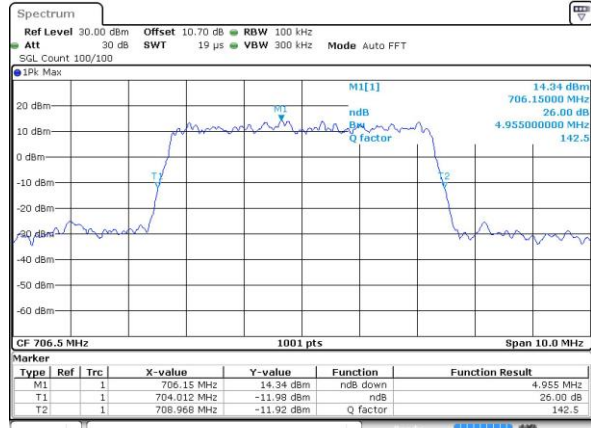
LTE Band 17

Lowest Channel / 5MHz / QPSK



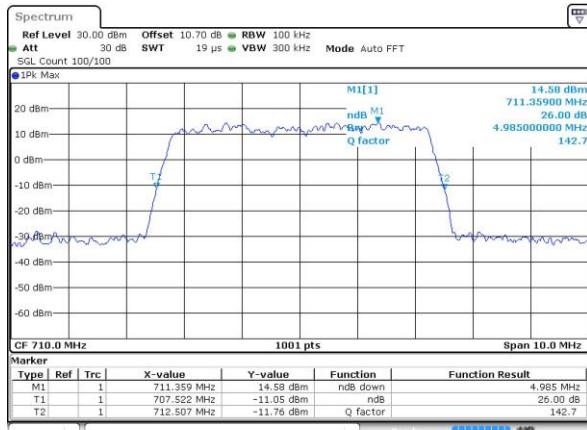
Date: 13 JUN 2017 09:54:06

Lowest Channel / 5MHz / 16QAM



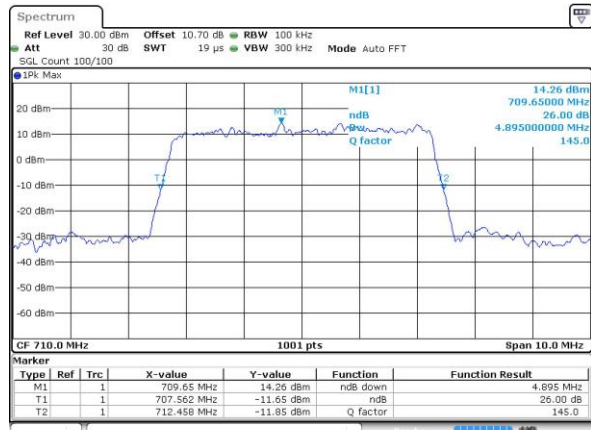
Date: 13 JUN 2017 09:54:16

Middle Channel / 5MHz / QPSK



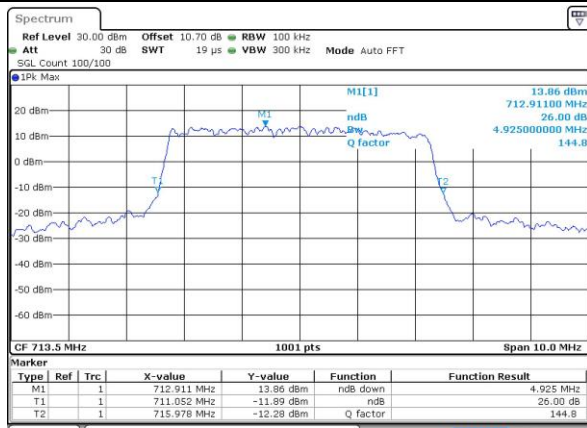
Date: 13 JUN 2017 10:01:12

Middle Channel / 5MHz / 16QAM



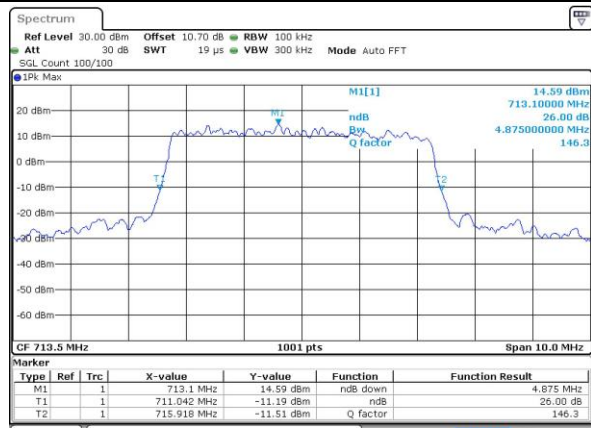
Date: 13 JUN 2017 10:01:23

Highest Channel / 5MHz / QPSK



Date: 13 JUN 2017 10:03:42

Highest Channel / 5MHz / 16QAM

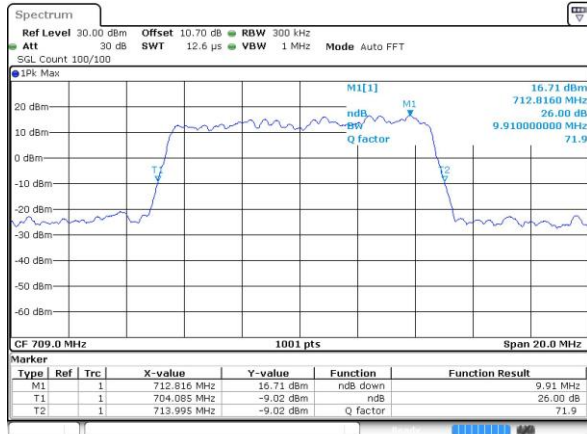


Date: 13 JUN 2017 10:03:53



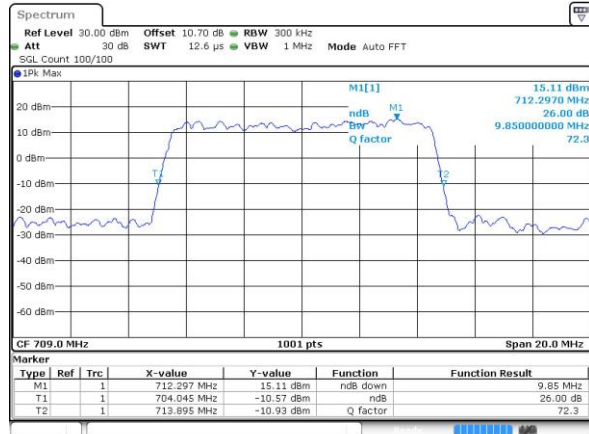
LTE Band 17

Lowest Channel / 10MHz / QPSK



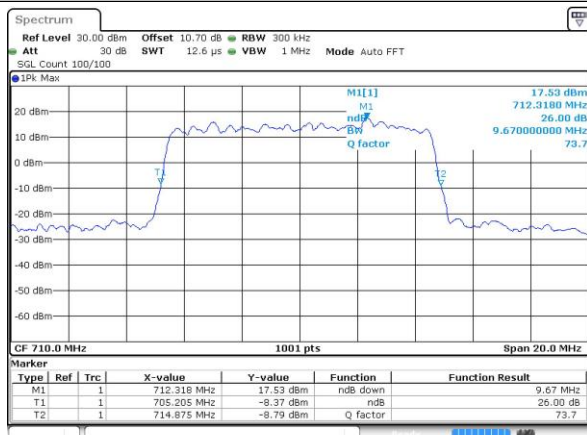
Date: 13 JUN 2017 10:10:49

Lowest Channel / 10MHz / 16QAM



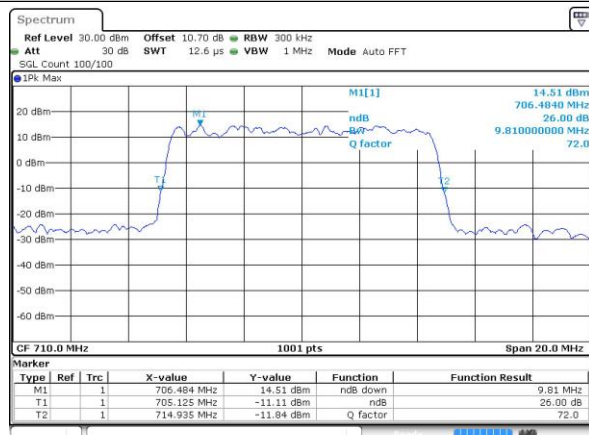
Date: 13 JUN 2017 10:10:59

Middle Channel / 10MHz / QPSK



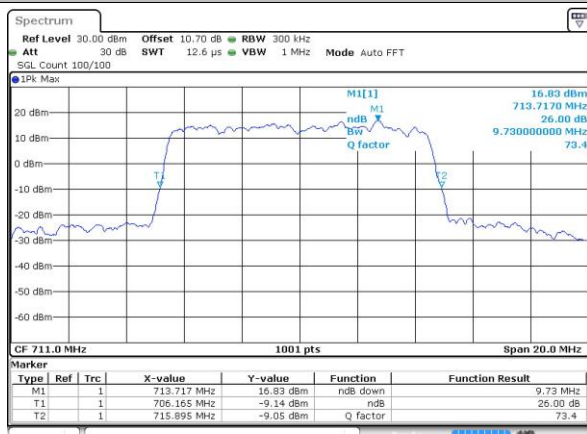
Date: 13 JUN 2017 10:17:55

Middle Channel / 10MHz / 16QAM



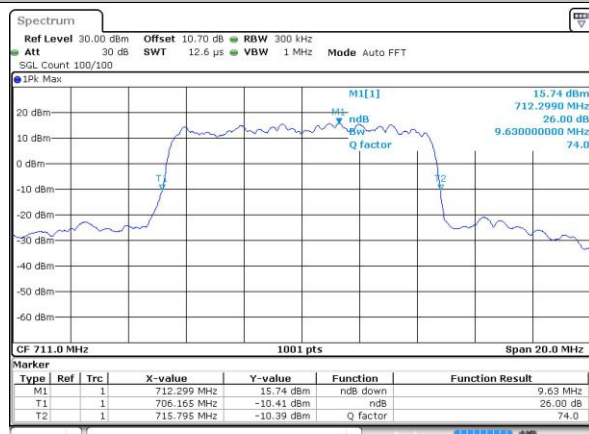
Date: 13 JUN 2017 10:18:06

Highest Channel / 10MHz / QPSK



Date: 13 JUN 2017 10:20:26

Highest Channel / 10MHz / 16QAM

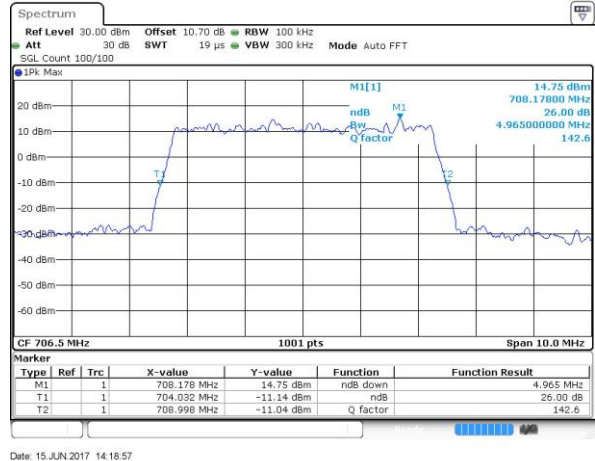


Date: 13 JUN 2017 10:20:36

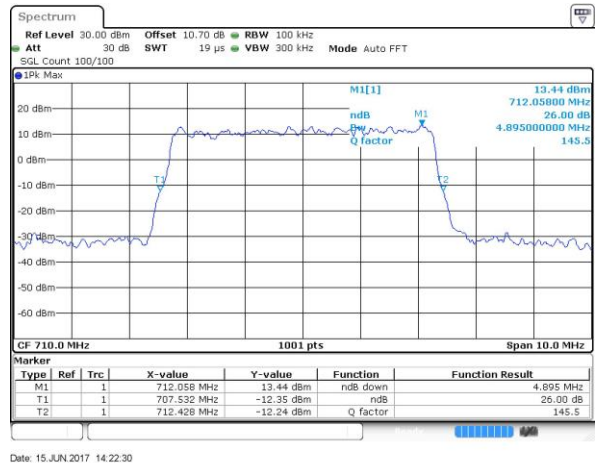


LTE Band 17

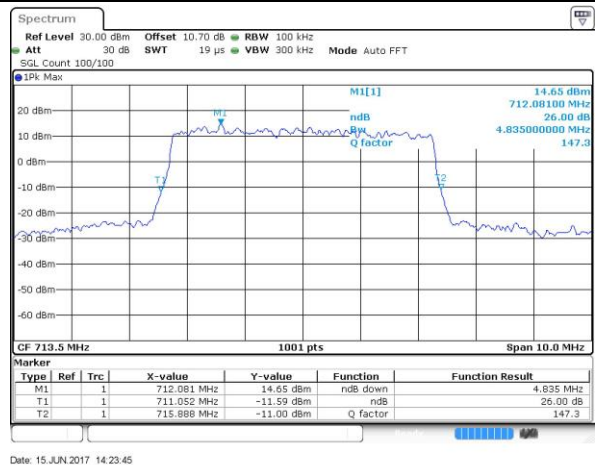
Lowest Channel / 5MHz / 64QAM



Middle Channel / 5MHz / 64QAM



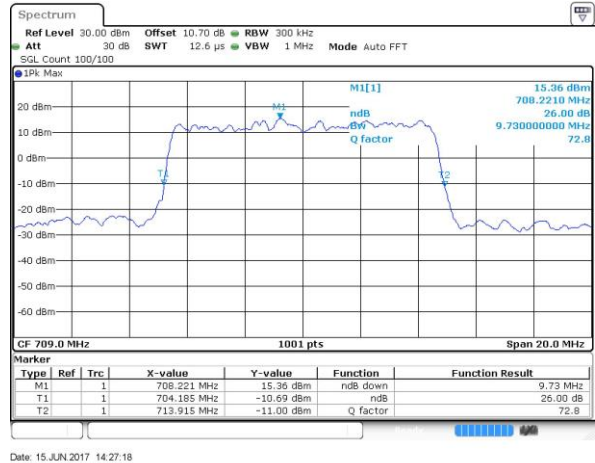
Highest Channel / 5MHz / 64QAM



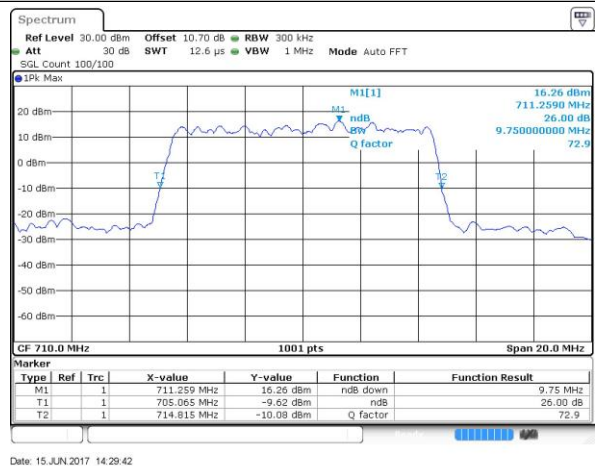


LTE Band 17

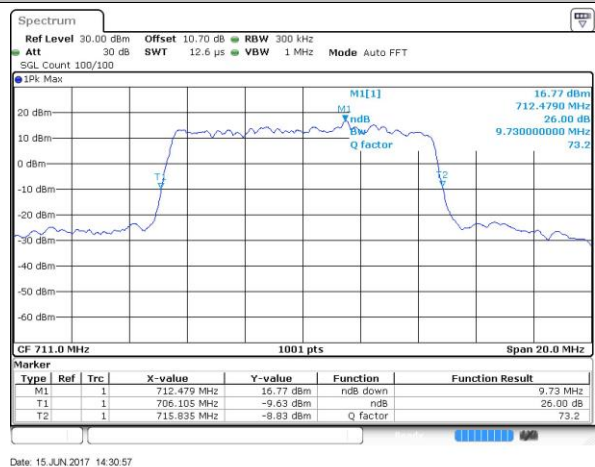
Lowest Channel / 10MHz / 64QAM



Middle Channel / 10MHz / 64QAM



Highest Channel / 10MHz / 64QAM



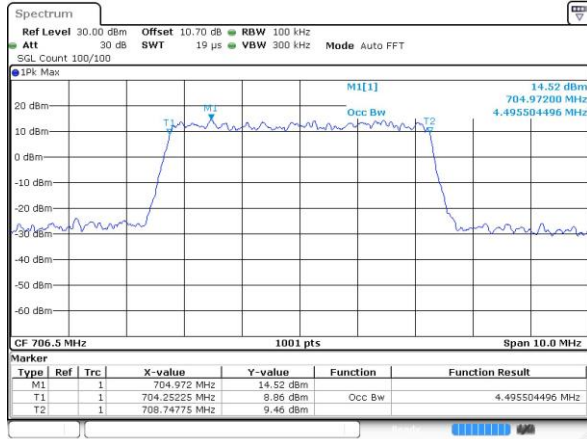
**Occupied Bandwidth**

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	-	-	-	-	4.5	4.48	9.03	9.03	-	-	-	-
Middle CH	-	-	-	-	4.49	4.48	8.99	9.01	-	-	-	-
Highest CH	-	-	-	-	4.5	4.48	8.95	9.01	-	-	-	-
Mode	LTE Band 17 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	64QAM	QPSK	64QAM	QPSK	64QAM	QPSK	64QAM	QPSK	64QAM	QPSK	64QAM
Lowest CH	-	-	-	-	-	4.5	-	9.07	-	-	-	-
Middle CH	-	-	-	-	-	4.49	-	8.97	-	-	-	-
Highest CH	-	-	-	-	-	4.49	-	8.97	-	-	-	-



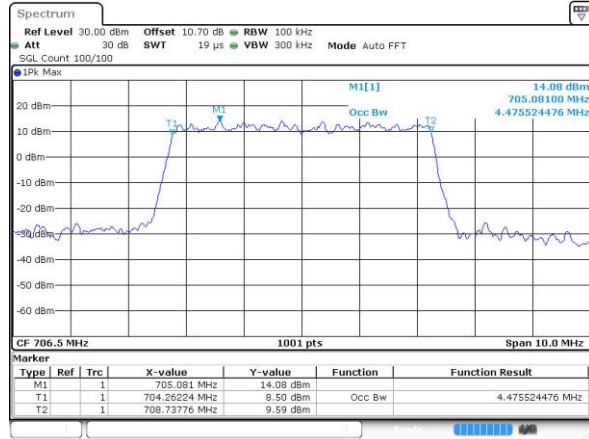
LTE Band 17

Lowest Channel / 5MHz / QPSK



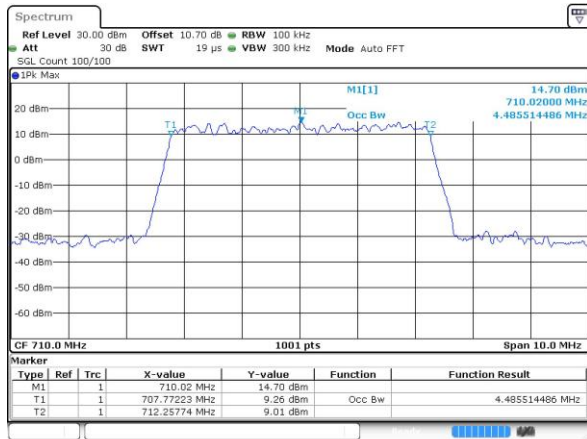
Date: 13 JUN 2017 09:53:45

Lowest Channel / 5MHz / 16QAM



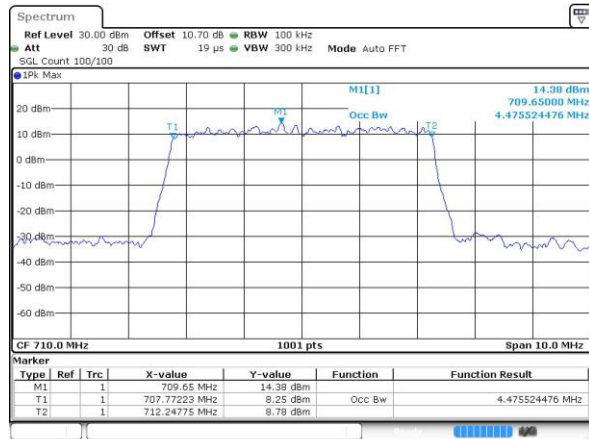
Date: 13 JUN 2017 09:53:55

Middle Channel / 5MHz / QPSK



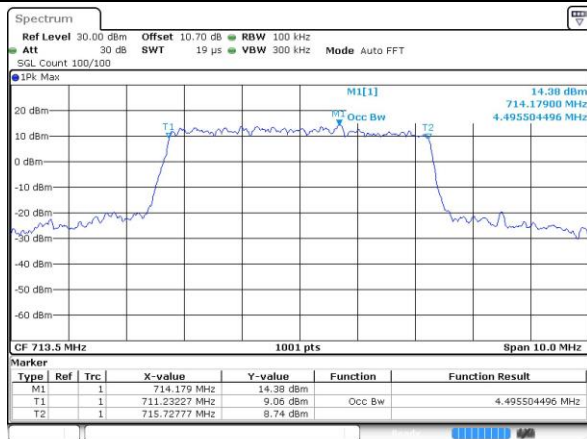
Date: 13 JUN 2017 10:00:52

Middle Channel / 5MHz / 16QAM



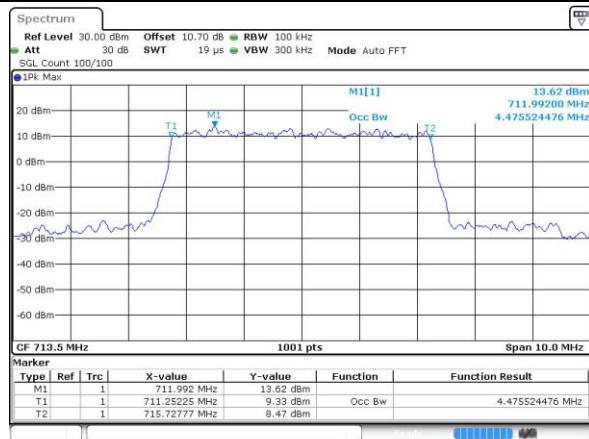
Date: 13 JUN 2017 10:01:02

Highest Channel / 5MHz / QPSK



Date: 13 JUN 2017 10:03:22

Highest Channel / 5MHz / 16QAM

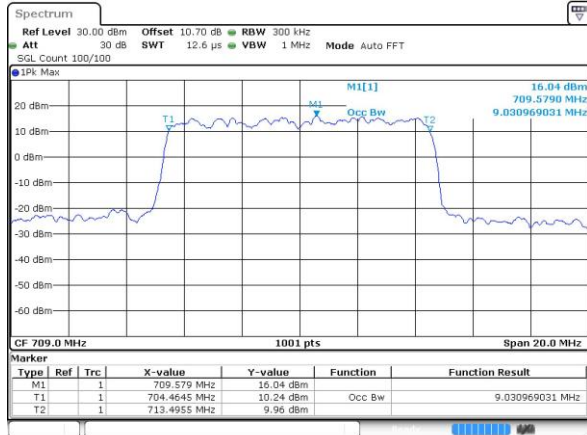


Date: 13 JUN 2017 10:03:32



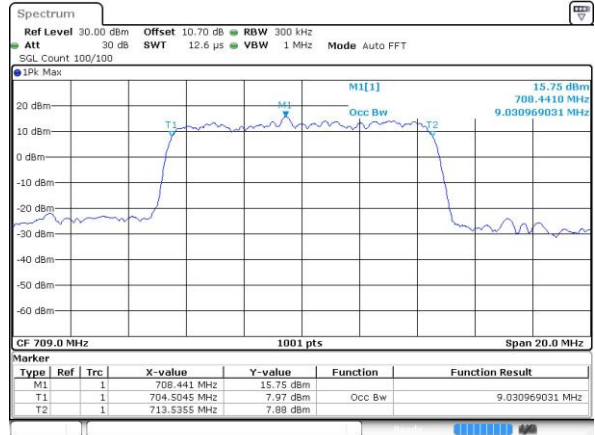
LTE Band 17

Lowest Channel / 10MHz / QPSK



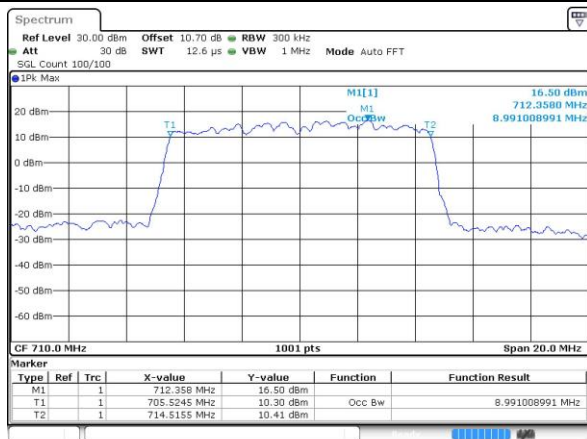
Date: 13 JUN 2017 10:10:28

Lowest Channel / 10MHz / 16QAM



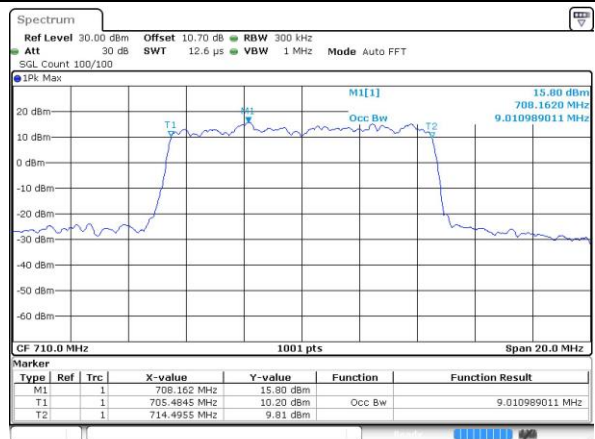
Date: 13 JUN 2017 10:10:39

Middle Channel / 10MHz / QPSK



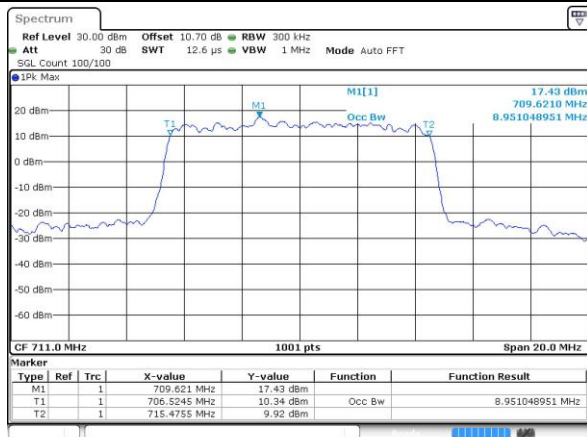
Date: 13 JUN 2017 10:17:35

Middle Channel / 10MHz / 16QAM



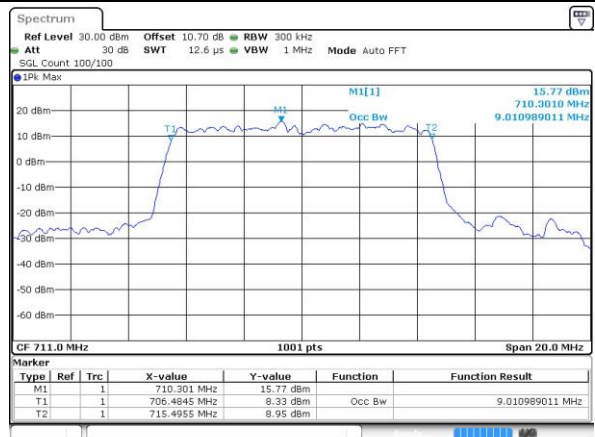
Date: 13 JUN 2017 10:17:45

Highest Channel / 10MHz / QPSK



Date: 13 JUN 2017 10:20:05

Highest Channel / 10MHz / 16QAM

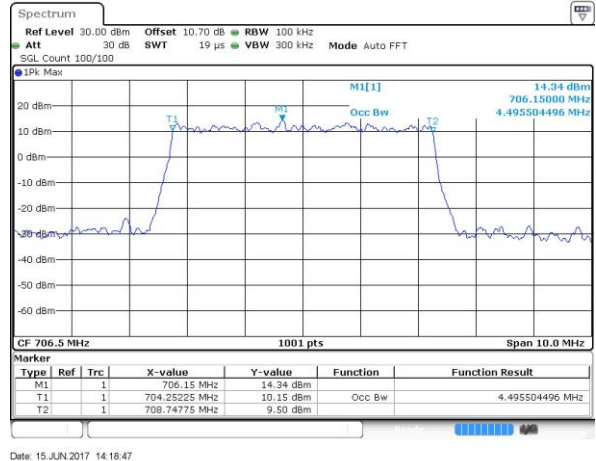


Date: 13 JUN 2017 10:20:15

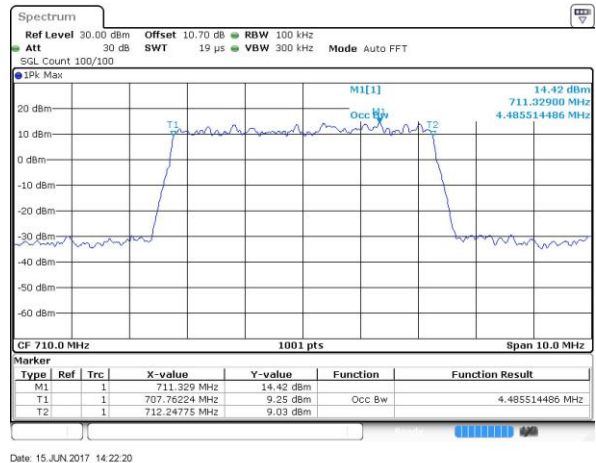


LTE Band 17

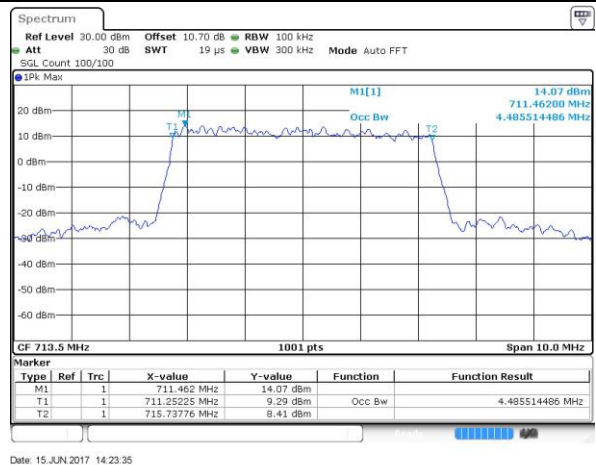
Lowest Channel / 5MHz / 64QAM



Middle Channel / 5MHz / 64QAM



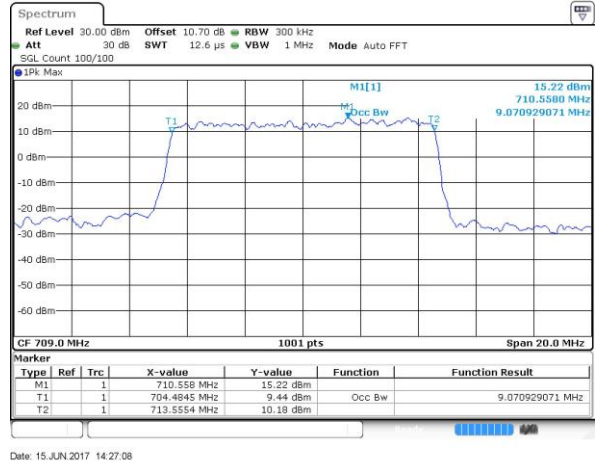
Highest Channel / 5MHz / 64QAM



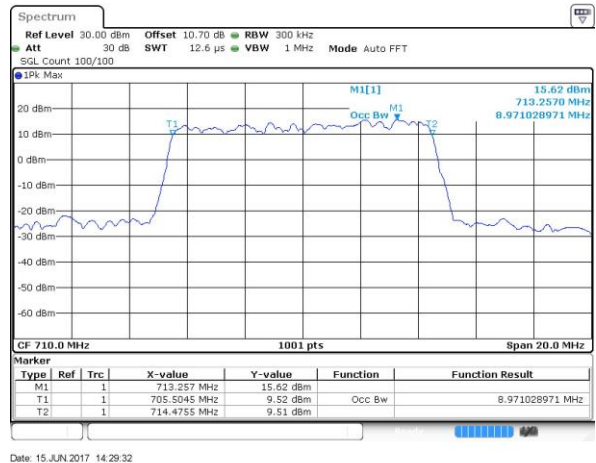


LTE Band 17

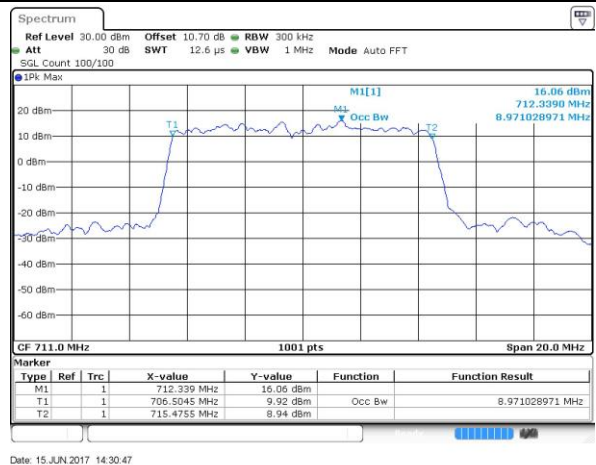
Lowest Channel / 10MHz / 64QAM



Middle Channel / 10MHz / 64QAM



Highest Channel / 10MHz / 64QAM





Conducted Band Edge