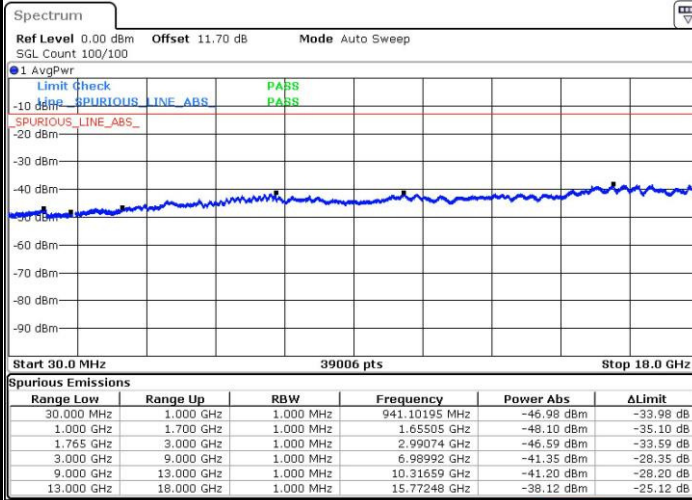




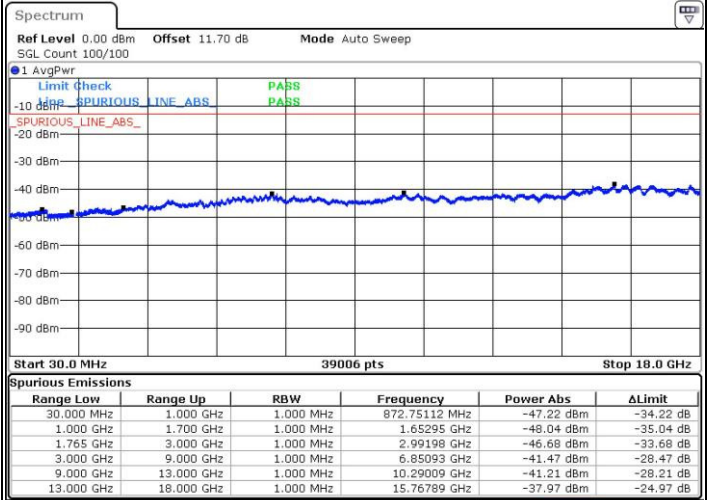
LTE Band 4 / 3MHz

Middle Channel / QPSK



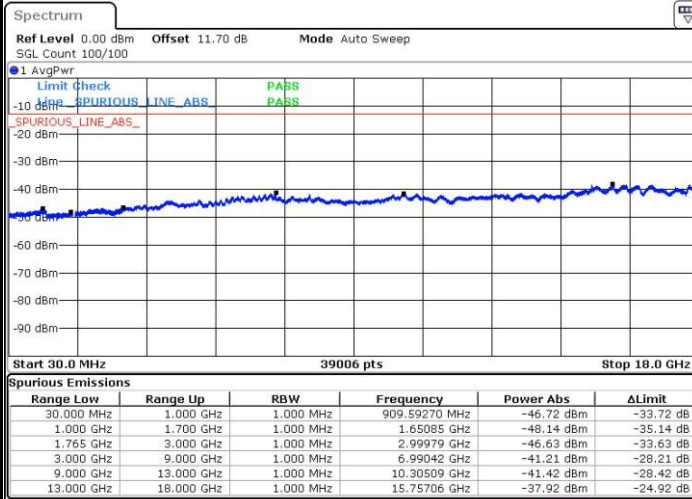
Date: 20 MAR 2017 10:54:12

Middle Channel / 16QAM



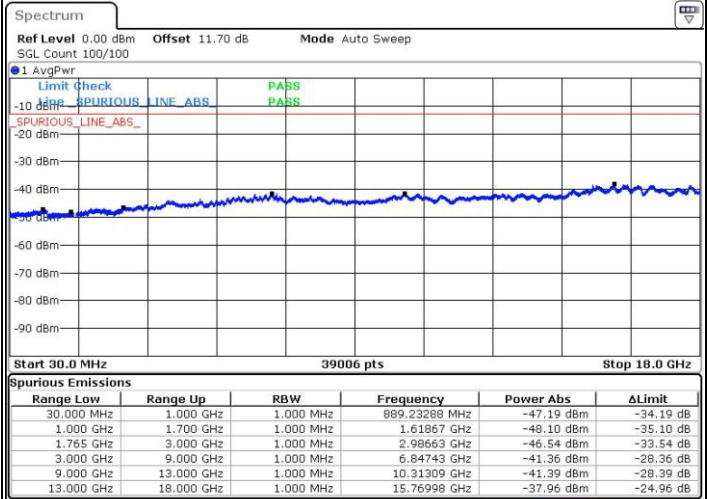
Date: 20 MAR 2017 10:55:06

Highest Channel / QPSK



Date: 20 MAR 2017 11:01:19

Highest Channel / 16QAM

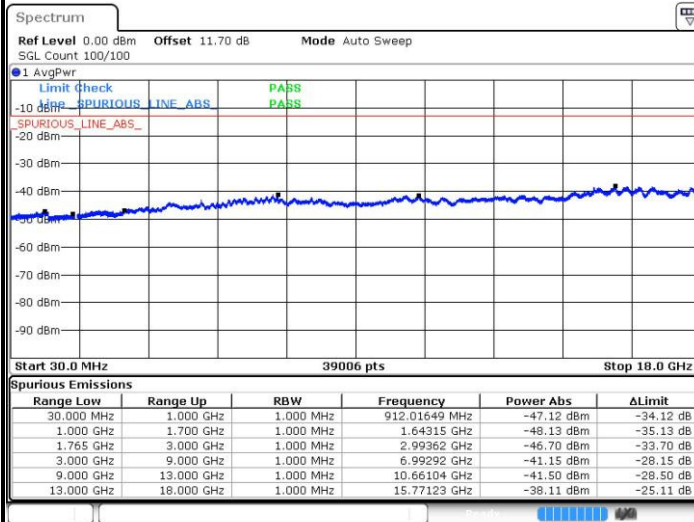


Date: 20 MAR 2017 11:02:13



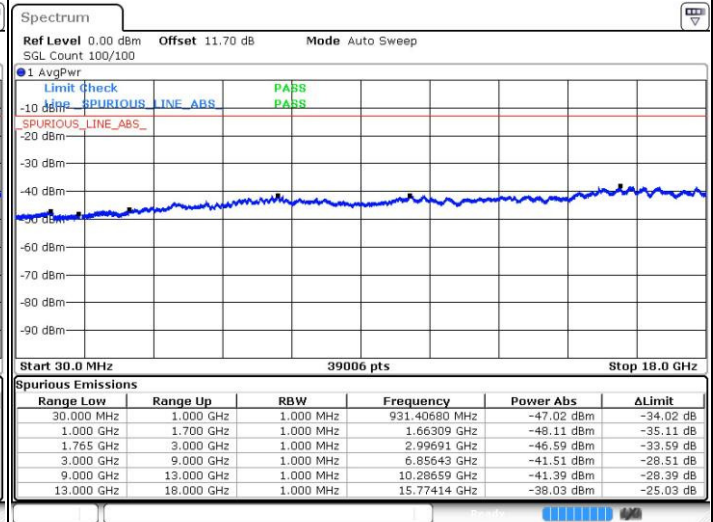
LTE Band 4 / 5MHz

Lowest Channel / QPSK



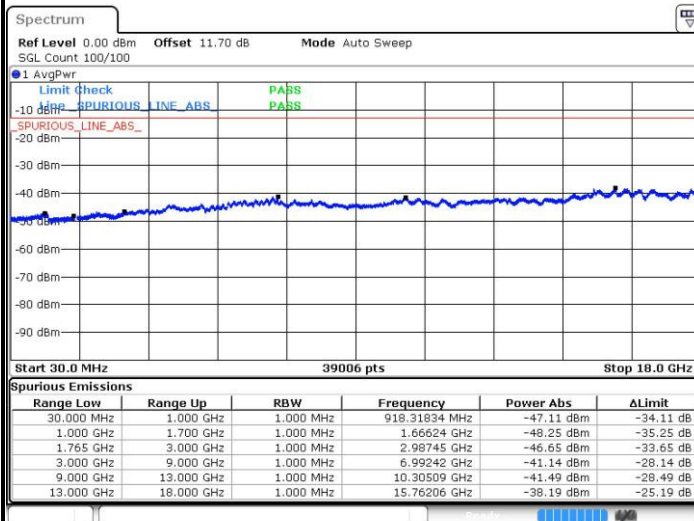
Date: 20 MAR 2017 11:08:26

Lowest Channel / 16QAM



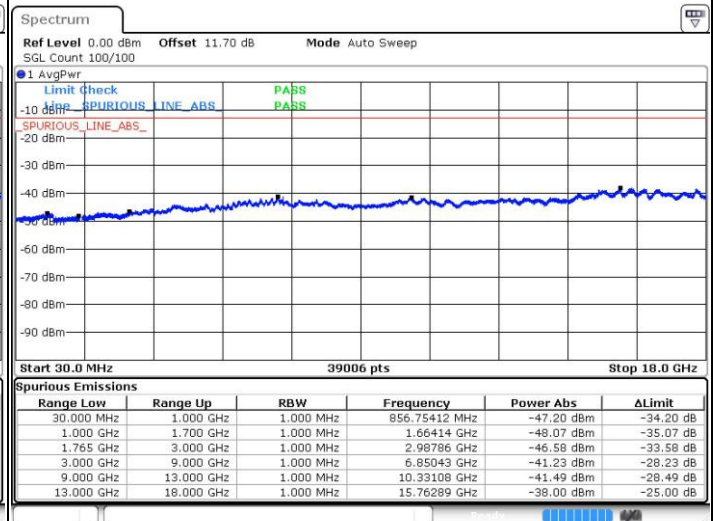
Date: 20 MAR 2017 11:09:20

Middle Channel / QPSK



Date: 20 MAR 2017 11:10:57

Middle Channel / 16QAM

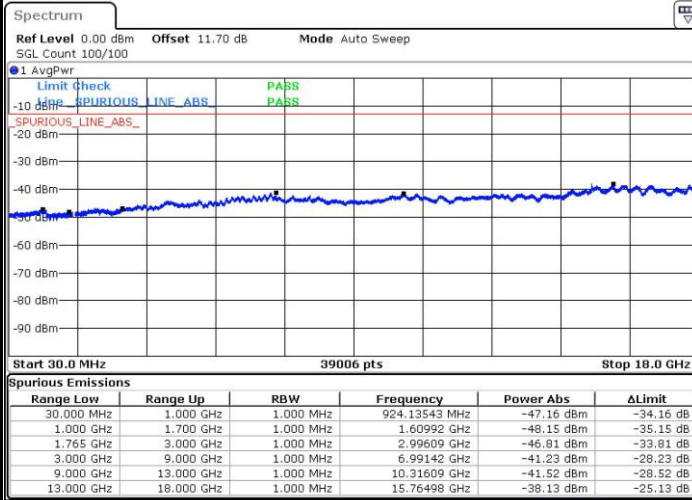


Date: 20 MAR 2017 11:11:51



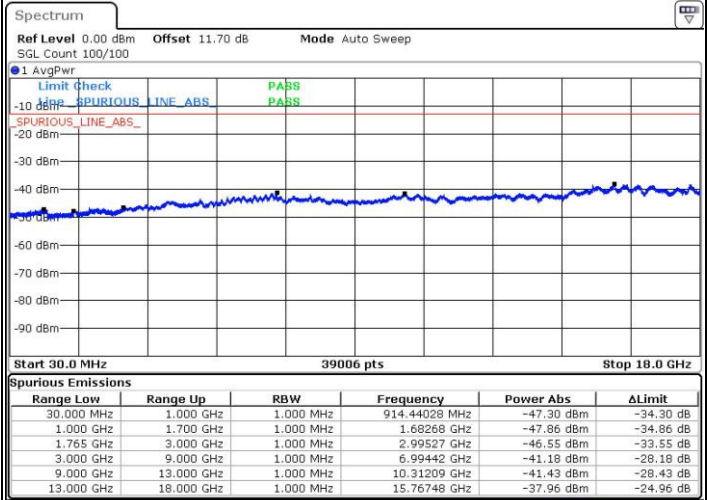
LTE Band 4 / 5MHz

Highest Channel / QPSK



Date: 20 MAR 2017 11:18:04

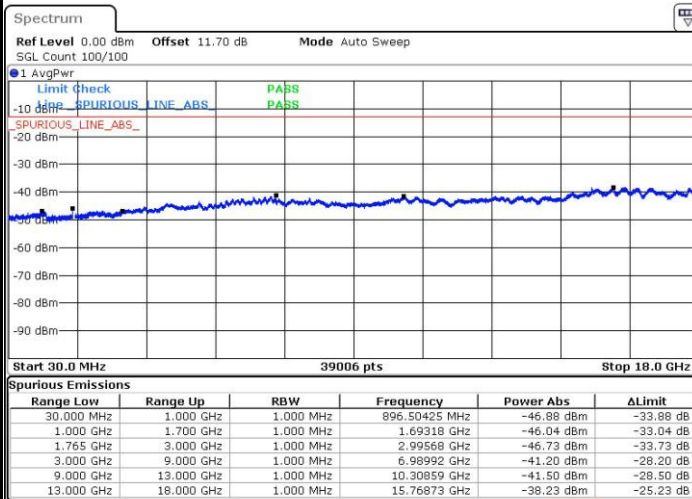
Highest Channel / 16QAM



Date: 20 MAR 2017 11:18:58

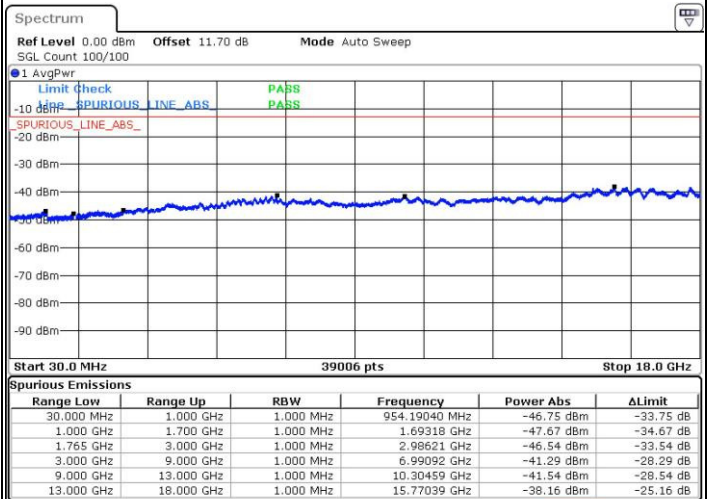
LTE Band 4 / 10MHz

Lowest Channel / QPSK



Date: 20 MAR 2017 11:25:11

Lowest Channel / 16QAM

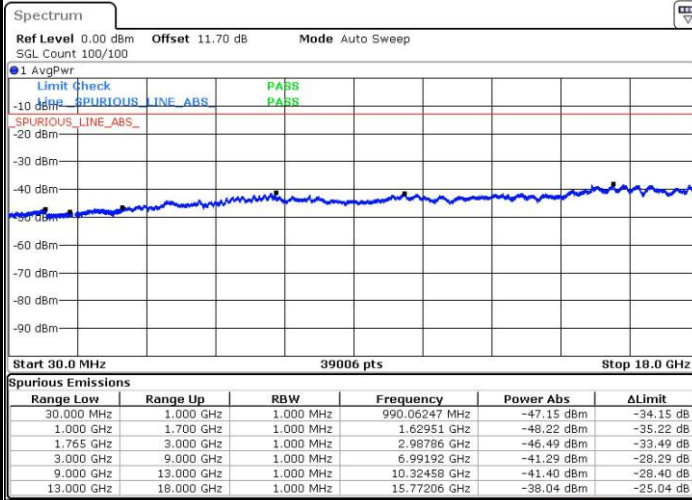


Date: 20 MAR 2017 11:26:05



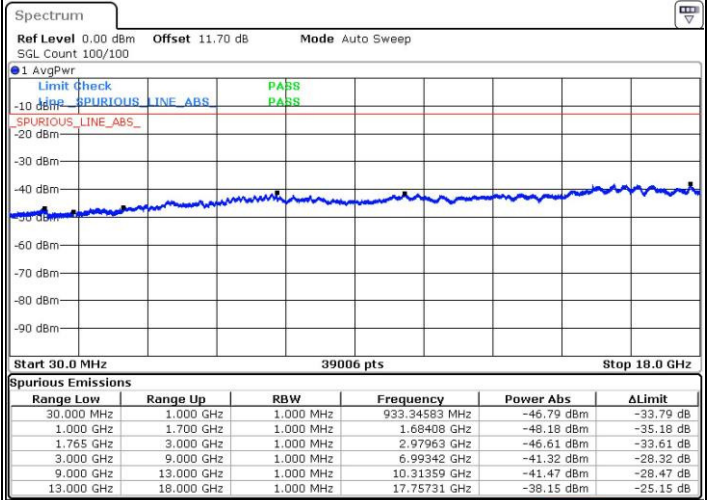
LTE Band 4 / 10MHz

Middle Channel / QPSK



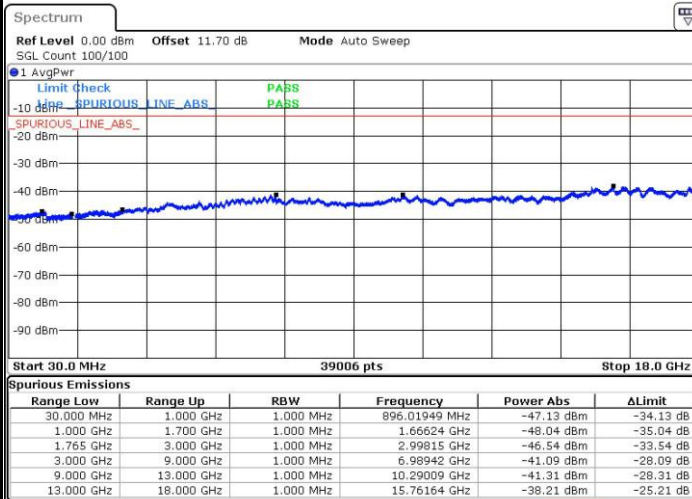
Date: 20 MAR 2017 11:27:41

Middle Channel / 16QAM



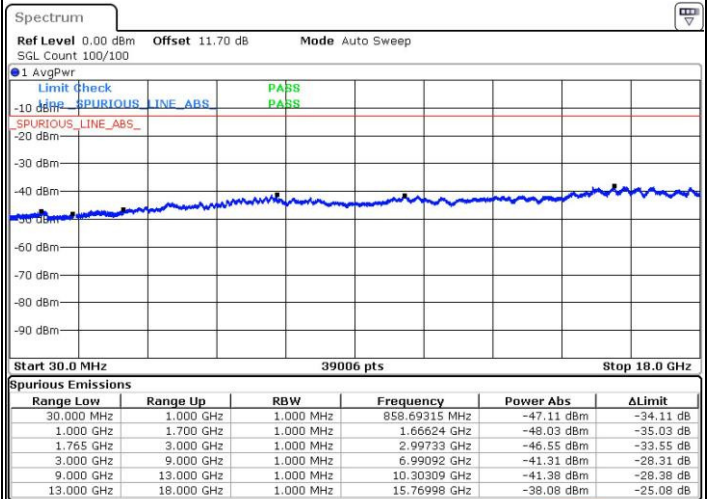
Date: 20 MAR 2017 11:28:35

Highest Channel / QPSK



Date: 20 MAR 2017 11:34:48

Highest Channel / 16QAM

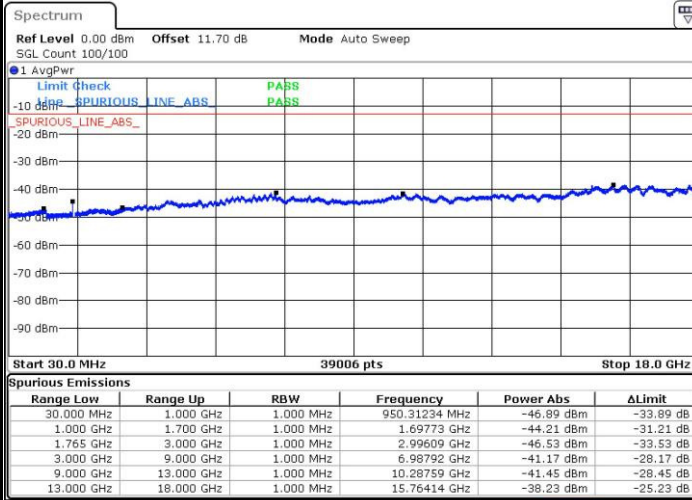


Date: 20 MAR 2017 11:35:42



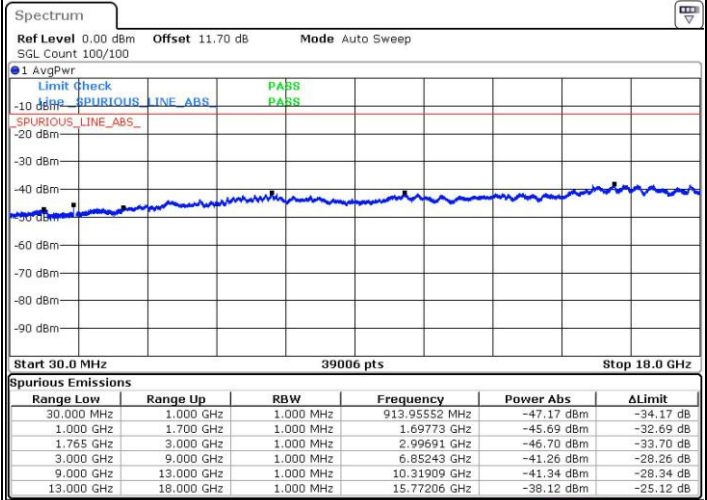
LTE Band 4 / 15MHz

Lowest Channel / QPSK



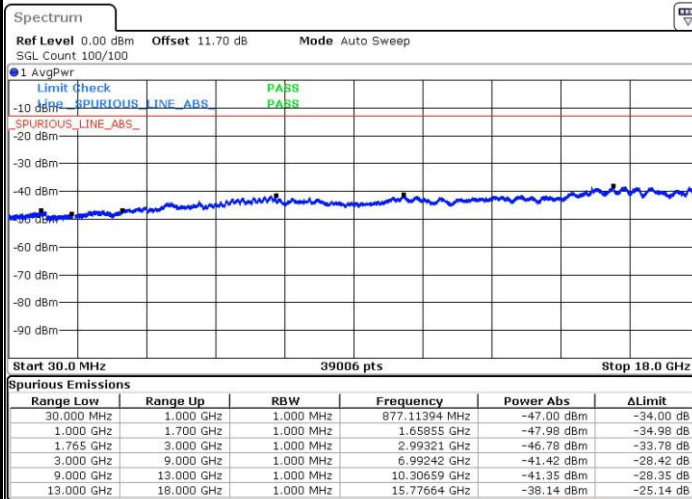
Date: 20 MAR 2017 11:41:55

Lowest Channel / 16QAM



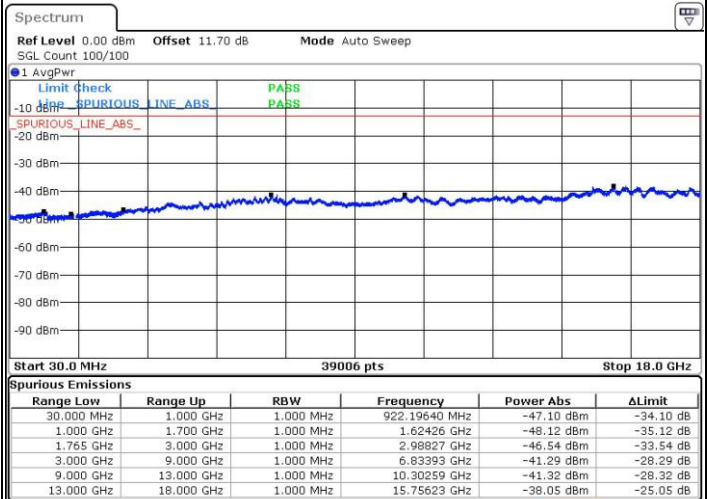
Date: 20 MAR 2017 11:42:49

Middle Channel / QPSK



Date: 20 MAR 2017 11:44:25

Middle Channel / 16QAM

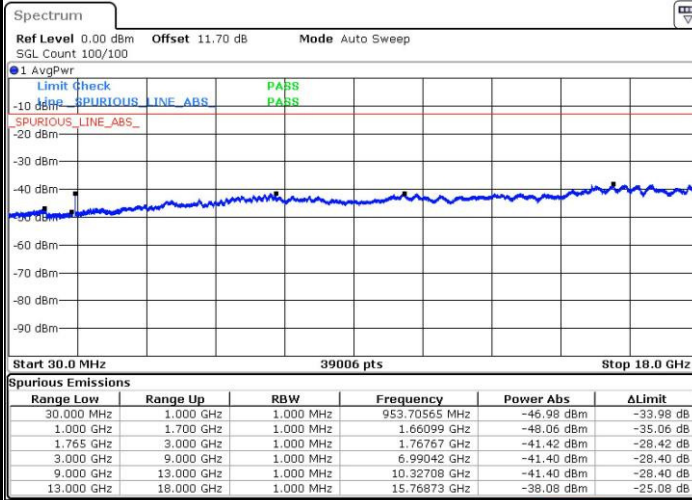


Date: 20 MAR 2017 11:45:20



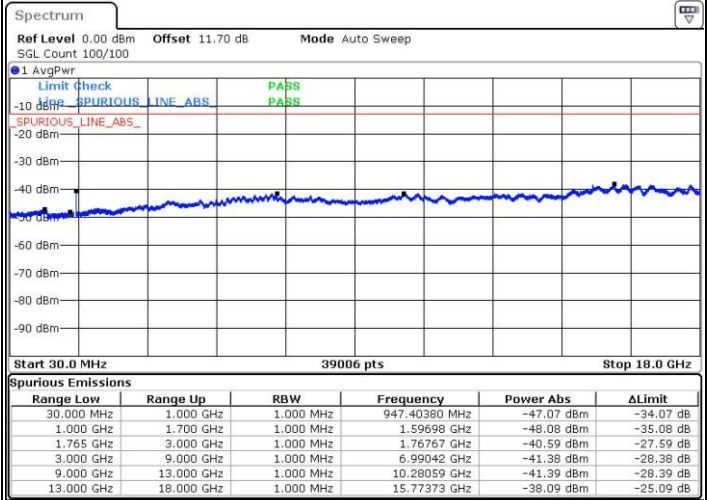
LTE Band 4 / 15MHz

Highest Channel / QPSK



Date: 20 MAR 2017 11:51:32

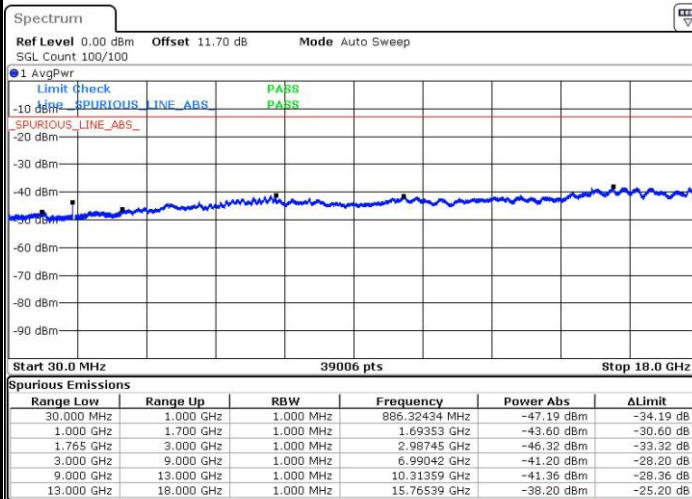
Highest Channel / 16QAM



Date: 20 MAR 2017 11:52:27

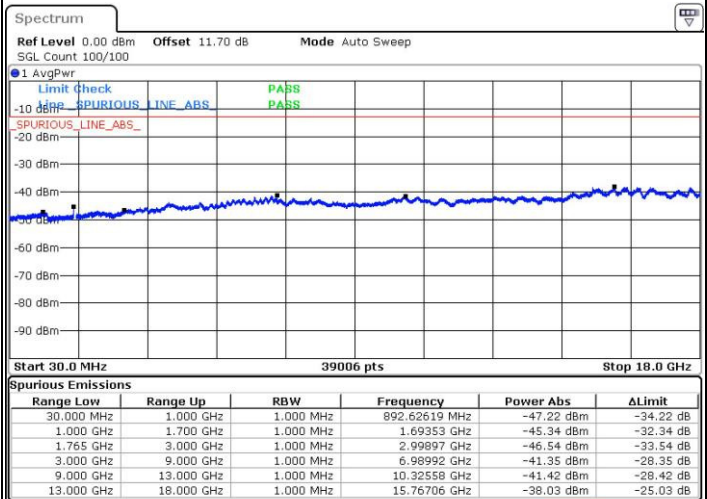
LTE Band 4 / 20MHz

Lowest Channel / QPSK



Date: 20 MAR 2017 11:58:40

Lowest Channel / 16QAM

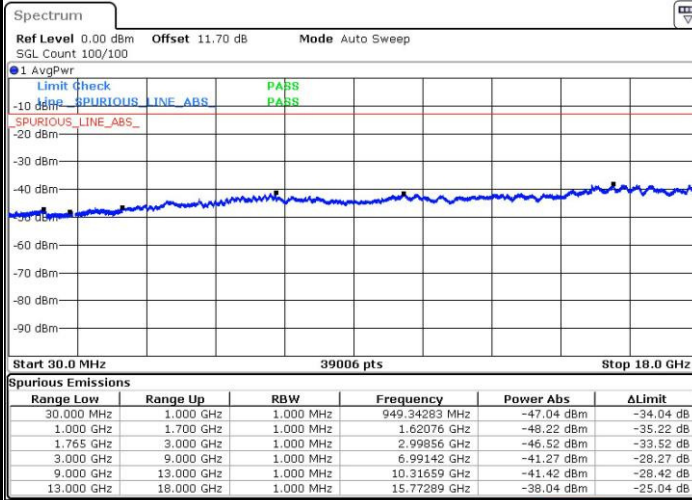


Date: 20 MAR 2017 11:59:34



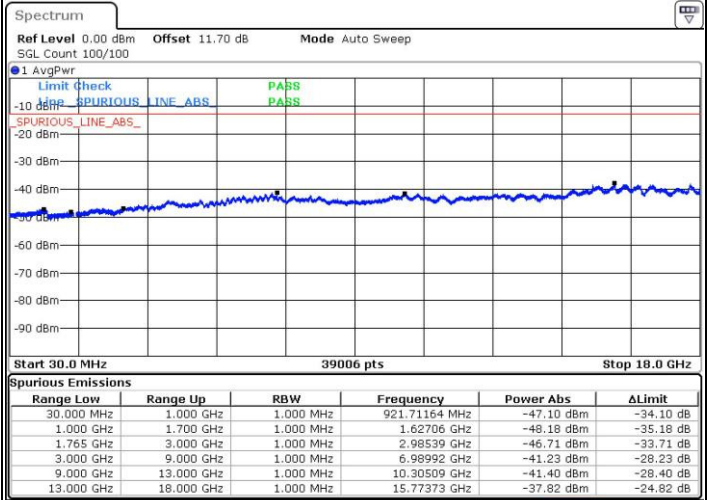
LTE Band 4 / 20MHz

Middle Channel / QPSK



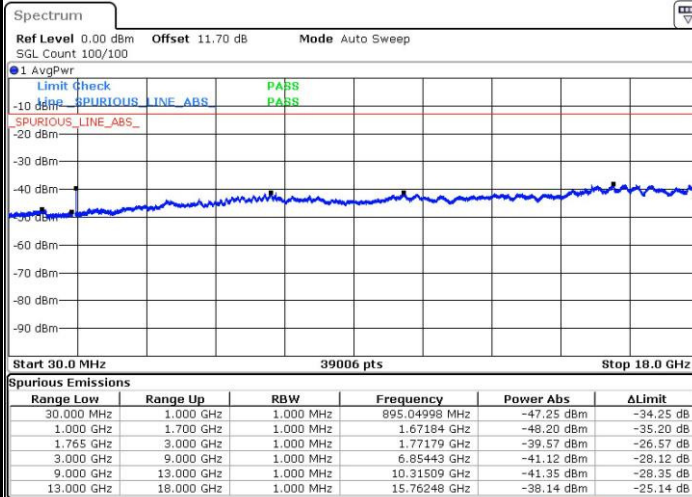
Date: 20 MAR 2017 12:01:10

Middle Channel / 16QAM



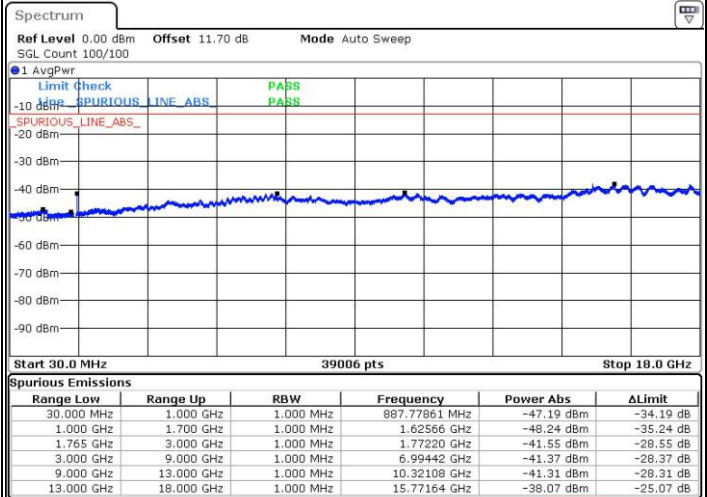
Date: 20 MAR 2017 12:02:05

Highest Channel / QPSK



Date: 20 MAR 2017 12:08:17

Highest Channel / 16QAM



Date: 20 MAR 2017 12:09:12

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	0.0083	PASS
40	Normal Voltage	0.0001	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0009	
0	Normal Voltage	0.0009	
-10	Normal Voltage	0.0076	
-20	Normal Voltage	0.0001	
-30	Normal Voltage	0.0009	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0006	

Note:

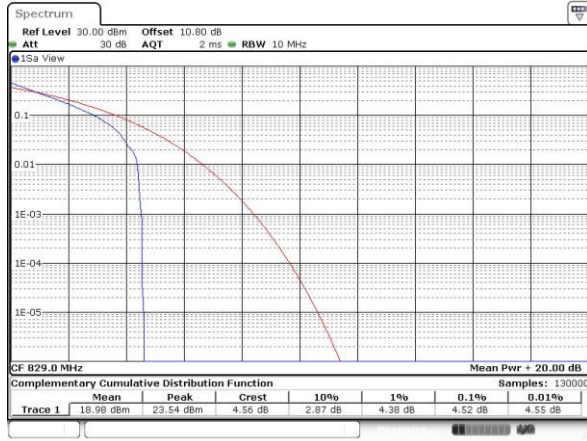
1. Normal Voltage =3.9 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.3 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



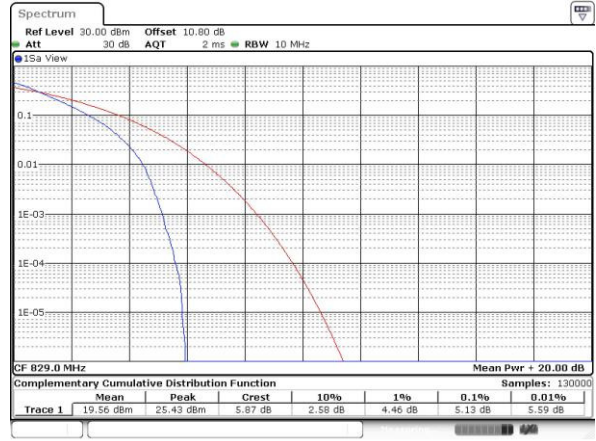
LTE Band 5

Peak-to-Average Ratio

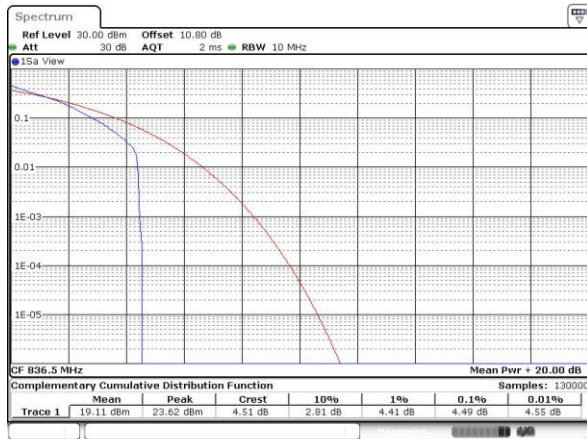
Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.52	5.13	4.96	6.09	PASS
Middle CH	4.49	4.87	5.33	5.91	
Highest CH	4.06	4.87	4.87	5.8	

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


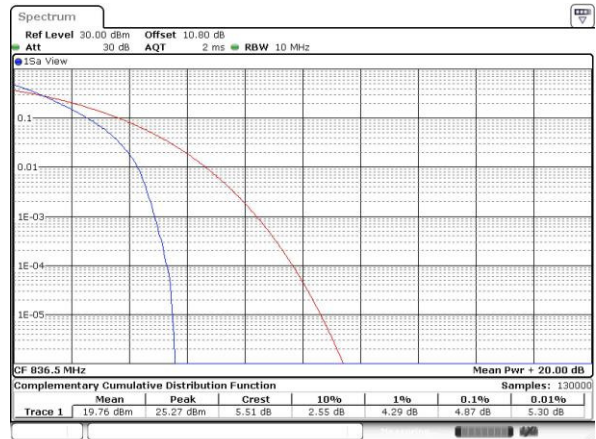
Date: 20 MAR 2017 15:44:34

Lowest Channel / Full RB


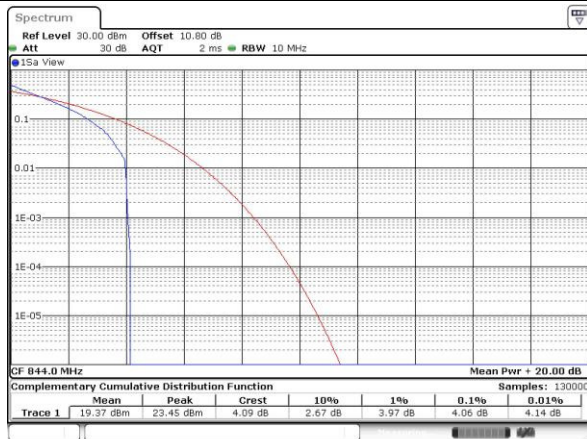
Date: 20 MAR 2017 15:45:00

Middle Channel / 1RB


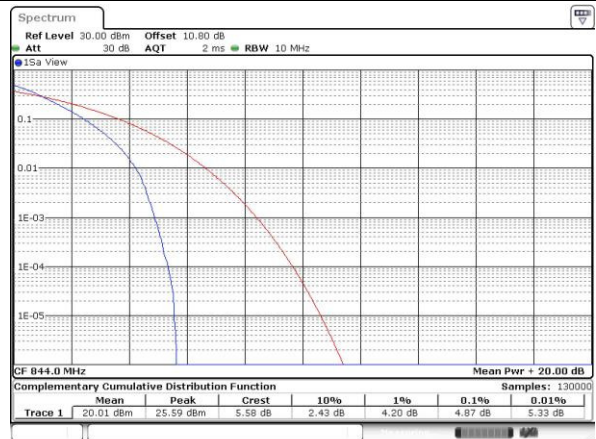
Date: 20 MAR 2017 15:45:21

Middle Channel / Full RB


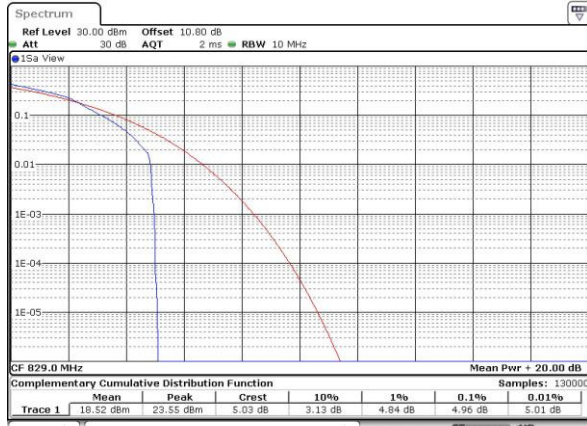
Date: 20 MAR 2017 15:45:32

Highest Channel / 1RB


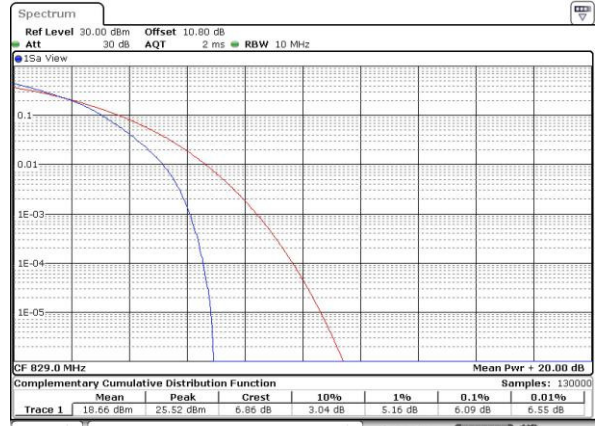
Date: 20 MAR 2017 15:45:46

Highest Channel / Full RB


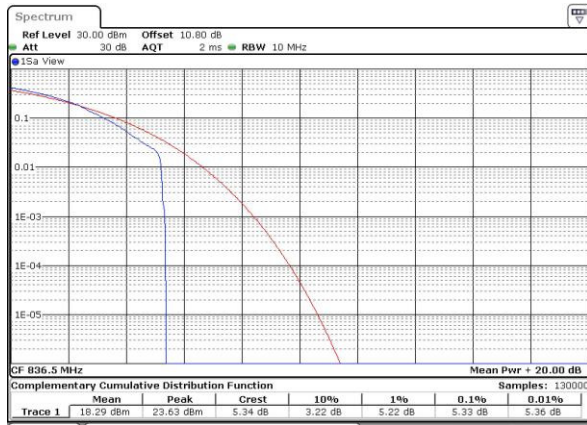
Date: 20 MAR 2017 15:45:57

LTE Band 5 / 10MHz / 16QAM
Lowest Channel / 1RB


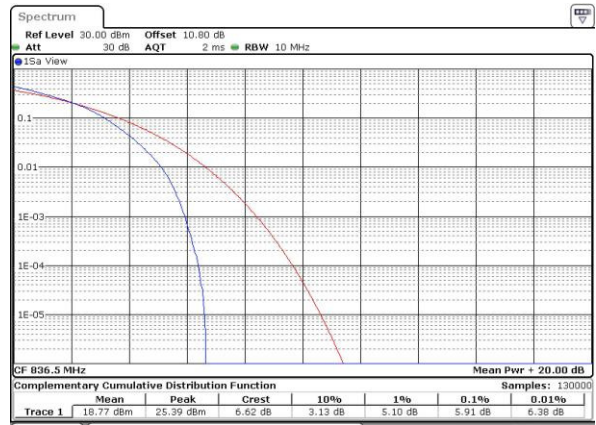
Date: 20 MAR 2017 15:31:18

Lowest Channel / Full RB


Date: 20 MAR 2017 15:31:30

Middle Channel / 1RB


Date: 20 MAR 2017 15:43:44

Middle Channel / Full RB


Date: 20 MAR 2017 15:44:03

Highest Channel / 1RB


Date: 20 MAR 2017 15:44:13

Highest Channel / Full RB


Date: 20 MAR 2017 15:44:23

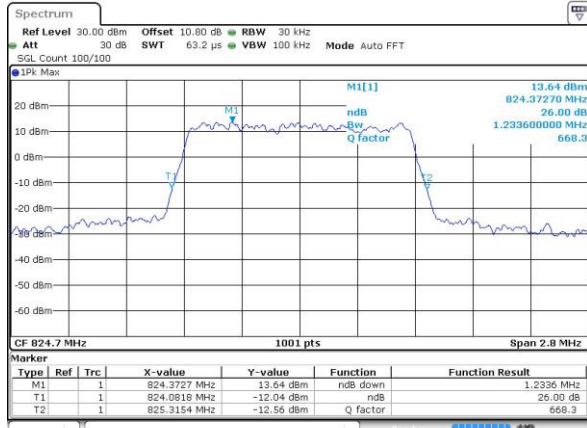
**26dB Bandwidth**

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	1.23	1.23	3.05	3.06	4.97	4.86	9.93	9.73	-	-	-	-
Middle CH	1.23	1.24	3.00	3.03	4.85	4.85	9.77	9.71	-	-	-	-
Highest CH	1.22	1.23	3.02	3.03	4.90	4.86	9.73	9.85	-	-	-	-



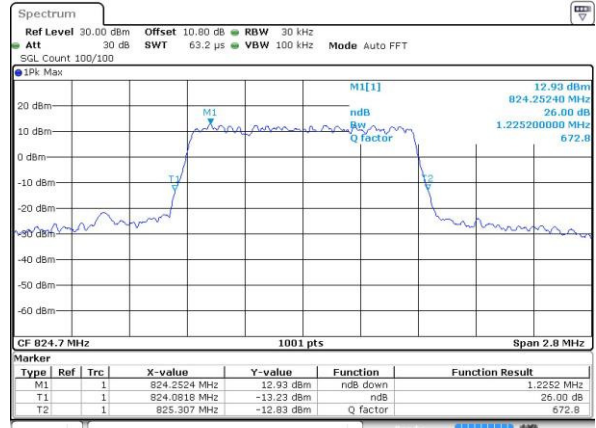
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



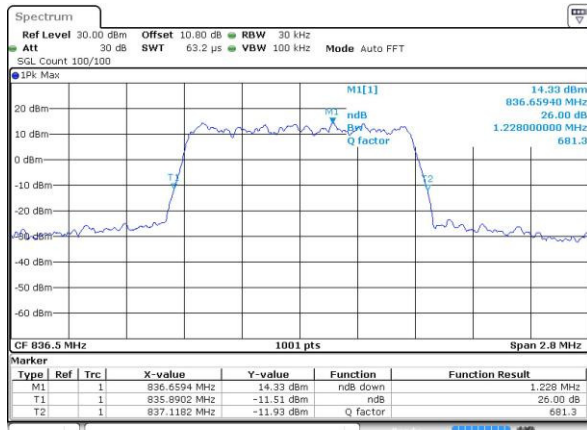
Date: 20 MAR 2017 15:09:35

Lowest Channel / 1.4MHz / 16QAM



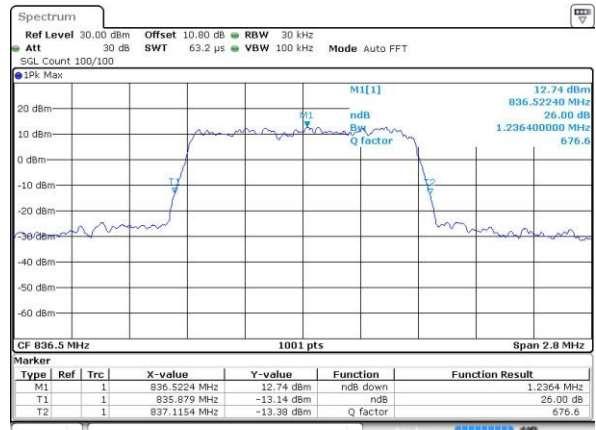
Date: 20 MAR 2017 15:09:24

Middle Channel / 1.4MHz / QPSK



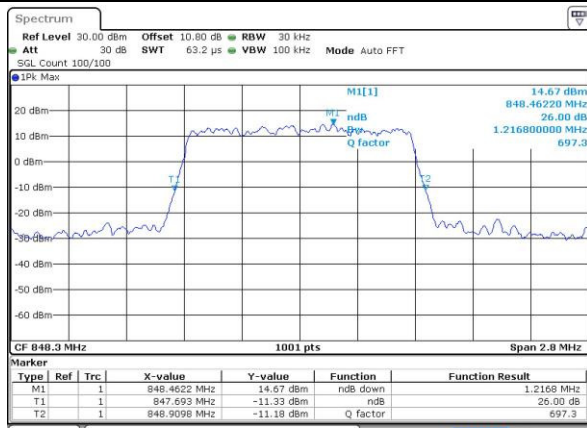
Date: 20 MAR 2017 15:18:31

Middle Channel / 1.4MHz / 16QAM



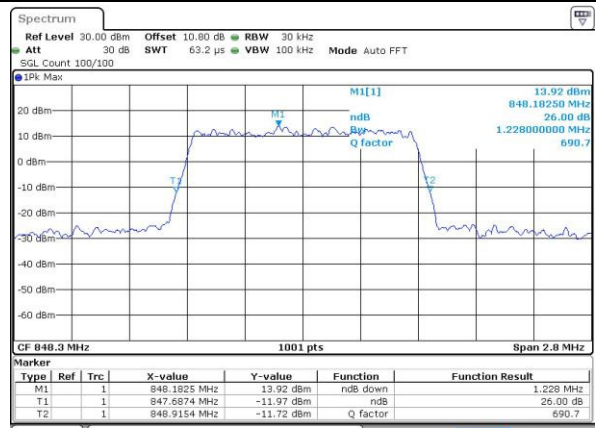
Date: 20 MAR 2017 15:18:42

Highest Channel / 1.4MHz / QPSK



Date: 20 MAR 2017 15:21:01

Highest Channel / 1.4MHz / 16QAM

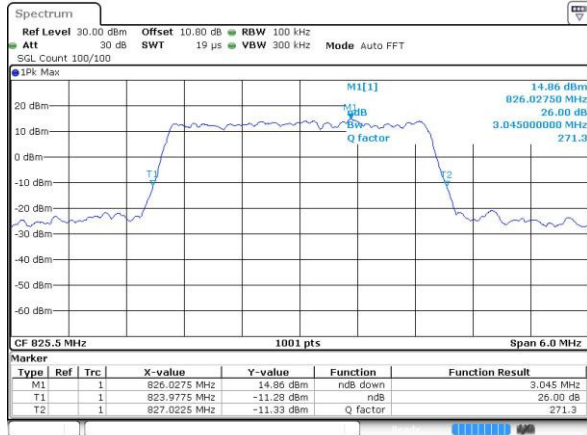


Date: 20 MAR 2017 15:21:12



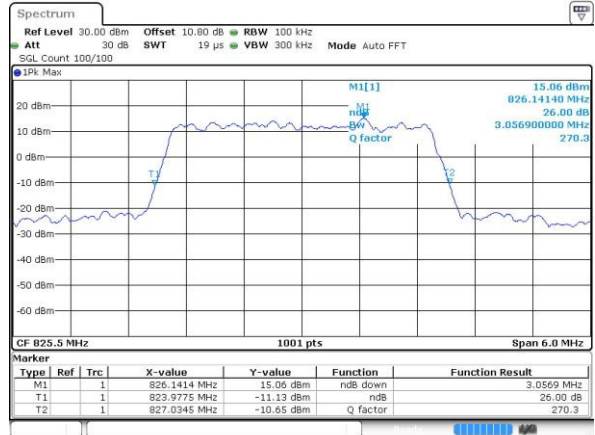
LTE Band 5

Lowest Channel / 3MHz / QPSK



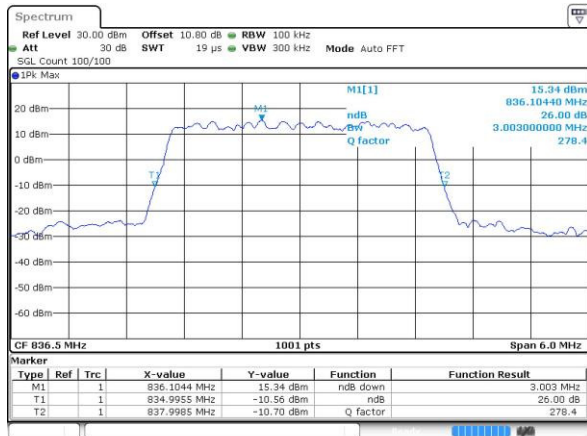
Date: 20 MAR 2017 14:07:12

Lowest Channel / 3MHz / 16QAM



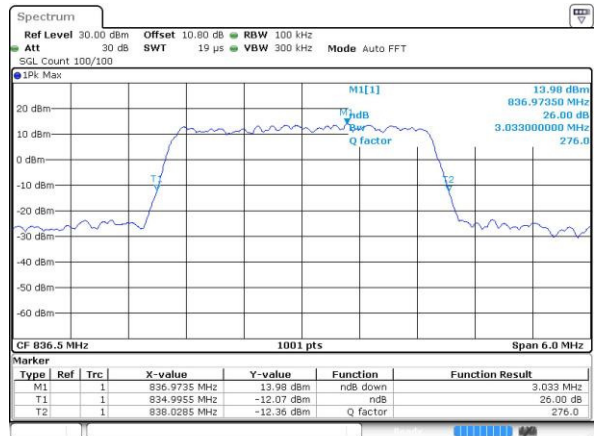
Date: 20 MAR 2017 14:07:22

Middle Channel / 3MHz / QPSK



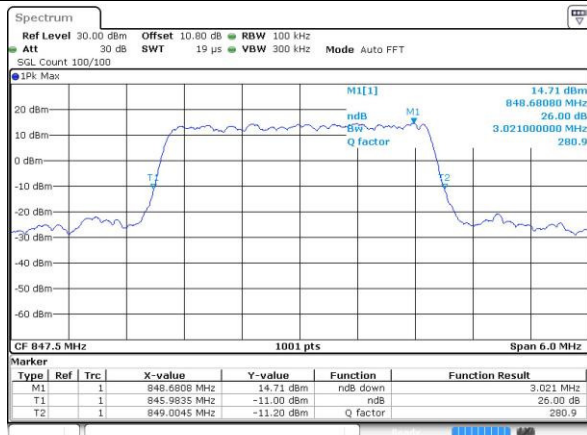
Date: 20 MAR 2017 14:16:19

Middle Channel / 3MHz / 16QAM



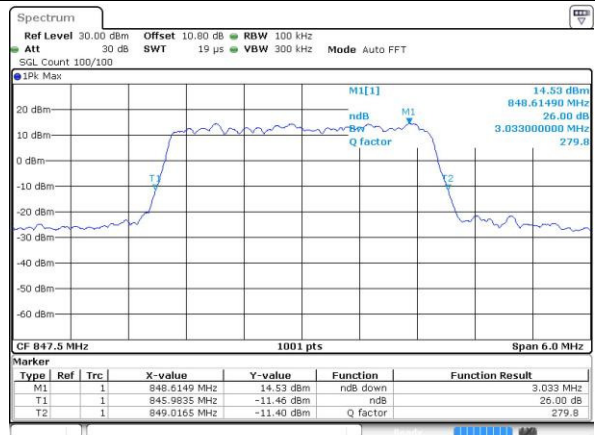
Date: 20 MAR 2017 14:16:29

Highest Channel / 3MHz / QPSK



Date: 20 MAR 2017 14:18:49

Highest Channel / 3MHz / 16QAM

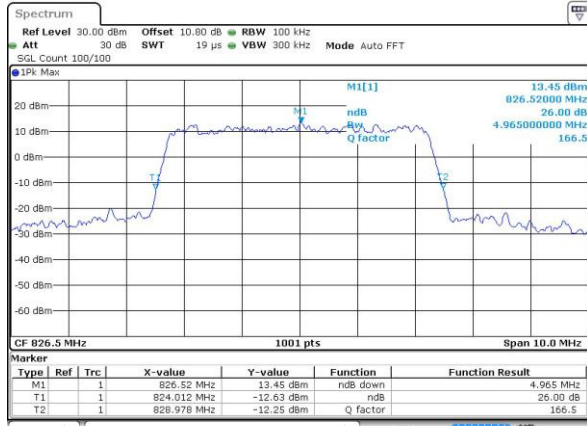


Date: 20 MAR 2017 14:18:59



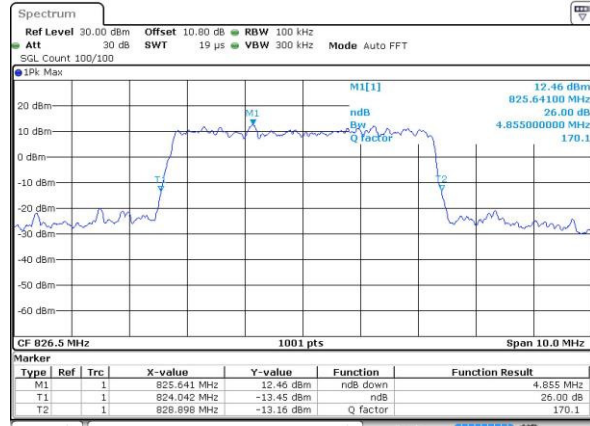
LTE Band 5

Lowest Channel / 5MHz / QPSK



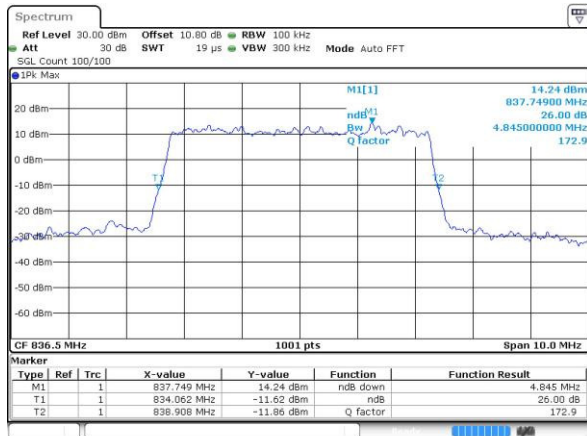
Date: 20 MAR 2017 14:27:56

Lowest Channel / 5MHz / 16QAM



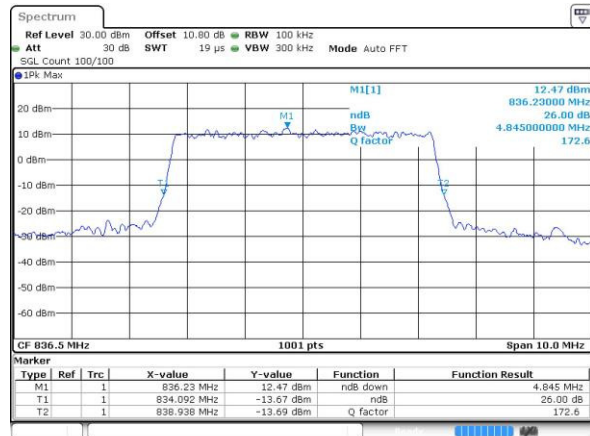
Date: 20 MAR 2017 14:28:06

Middle Channel / 5MHz / QPSK



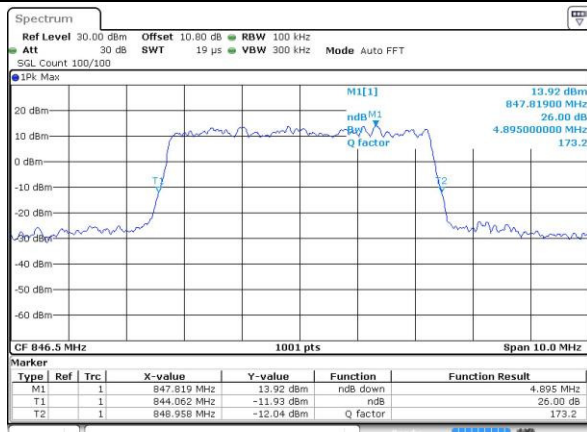
Date: 20 MAR 2017 14:37:04

Middle Channel / 5MHz / 16QAM



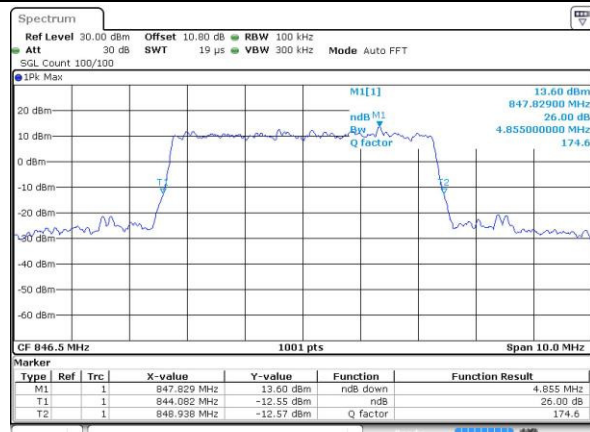
Date: 20 MAR 2017 14:37:14

Highest Channel / 5MHz / QPSK



Date: 20 MAR 2017 14:39:34

Highest Channel / 5MHz / 16QAM

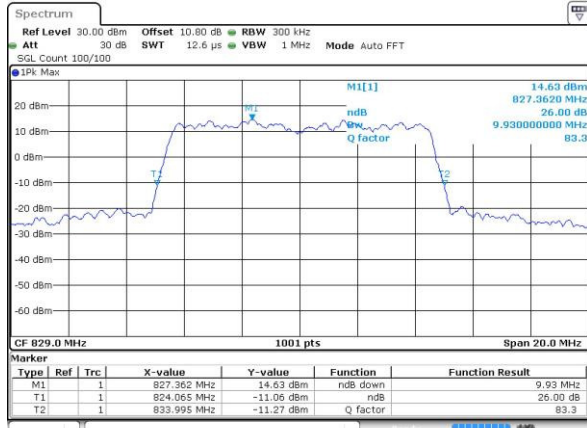


Date: 20 MAR 2017 14:39:44



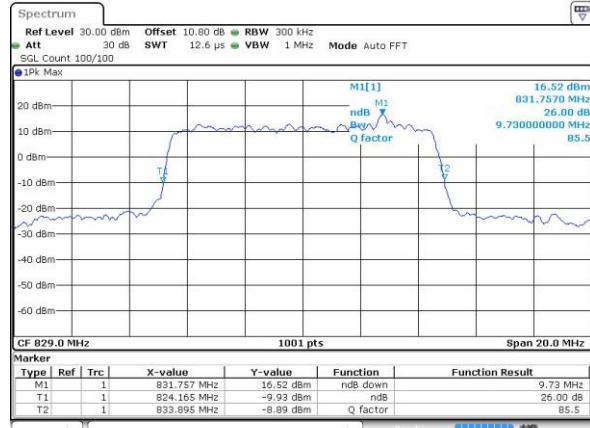
LTE Band 5

Lowest Channel / 10MHz / QPSK



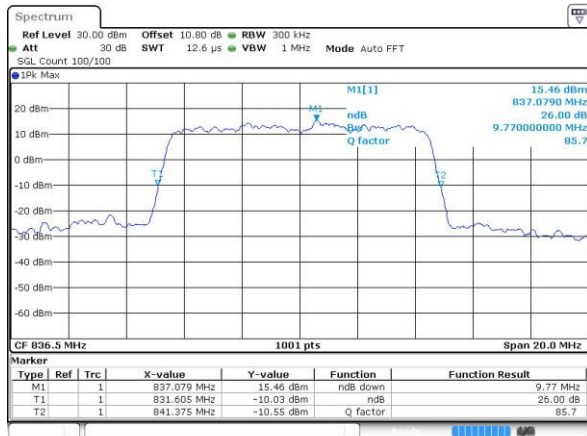
Date: 20 MAR 2017 14:48:40

Lowest Channel / 10MHz / 16QAM



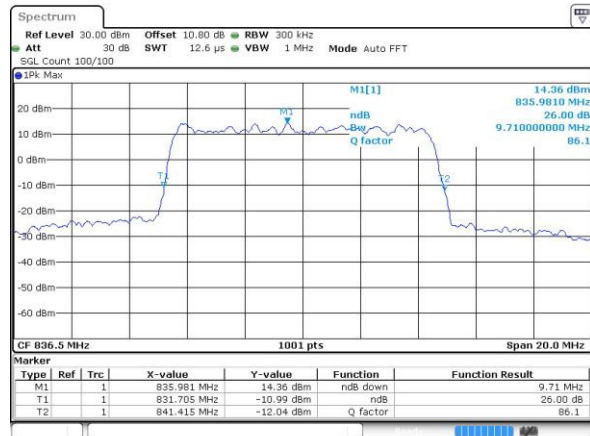
Date: 20 MAR 2017 14:48:51

Middle Channel / 10MHz / QPSK



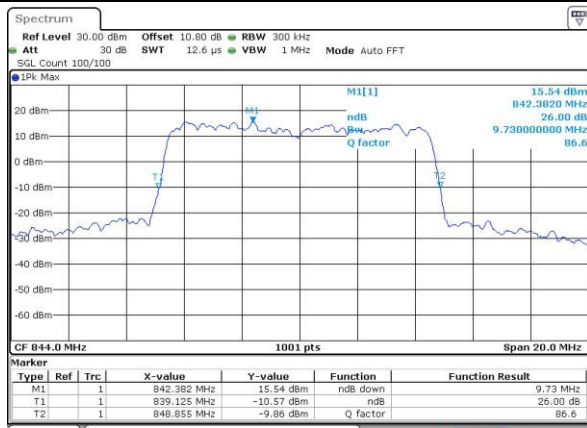
Date: 20 MAR 2017 14:57:47

Middle Channel / 10MHz / 16QAM



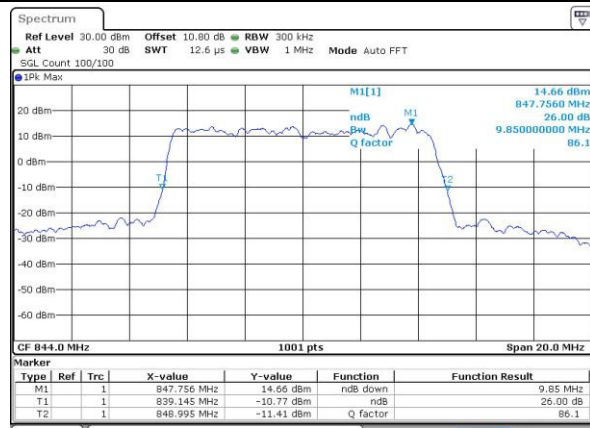
Date: 20 MAR 2017 14:57:57

Highest Channel / 10MHz / QPSK



Date: 20 MAR 2017 15:00:17

Highest Channel / 10MHz / 16QAM



Date: 20 MAR 2017 15:00:28

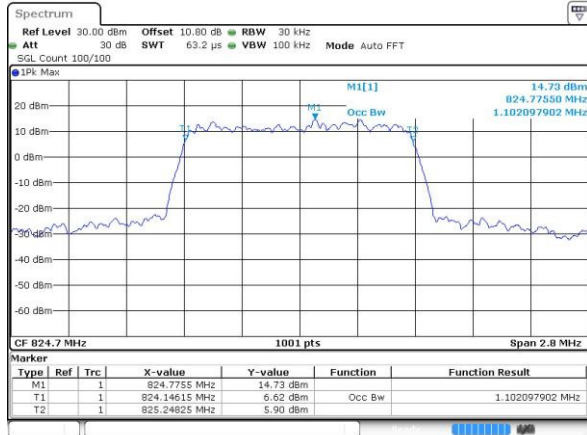
**Occupied Bandwidth**

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	1.1	1.08	2.7	2.73	4.48	4.5	9.13	9.01	-	-	-	-
Middle CH	1.1	1.09	2.72	2.7	4.49	4.52	8.99	9.01	-	-	-	-
Highest CH	1.09	1.09	2.72	2.7	4.5	4.5	9.05	9.03	-	-	-	-

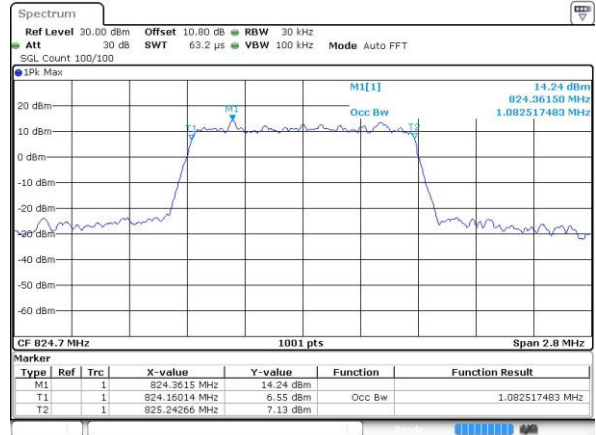


LTE Band 5

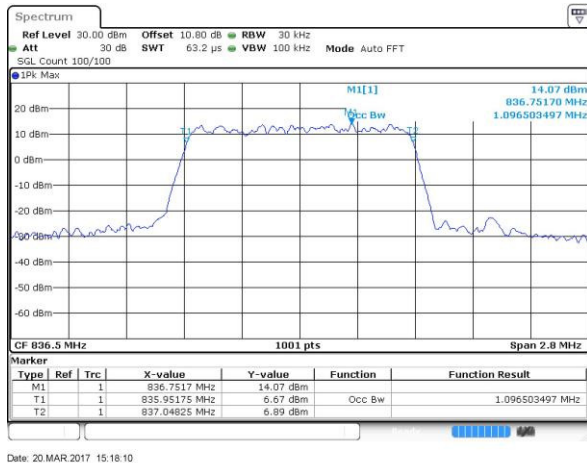
Lowest Channel / 1.4MHz / QPSK



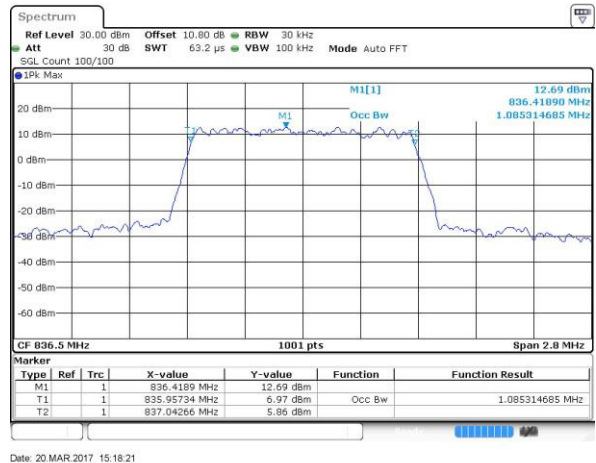
Lowest Channel / 1.4MHz / 16QAM



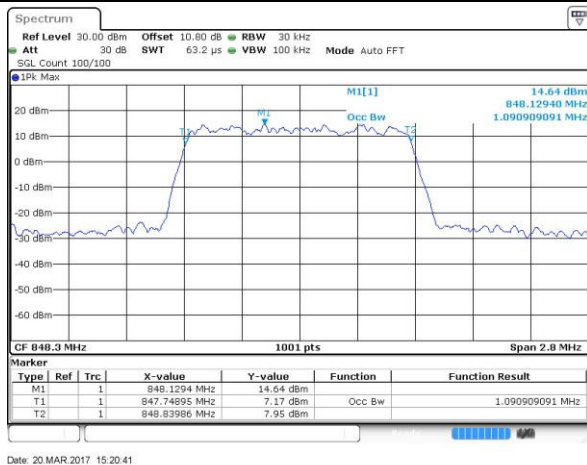
Middle Channel / 1.4MHz / QPSK



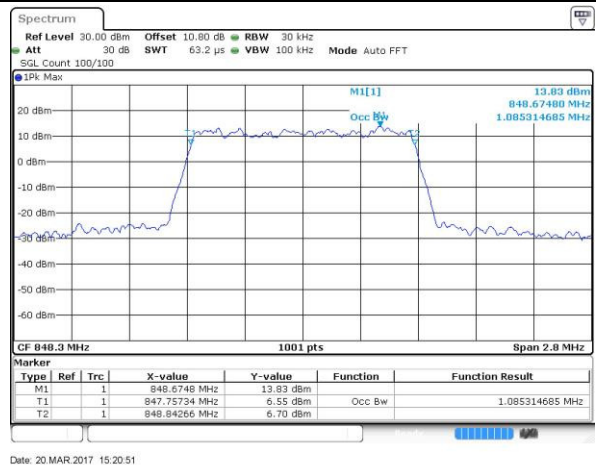
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



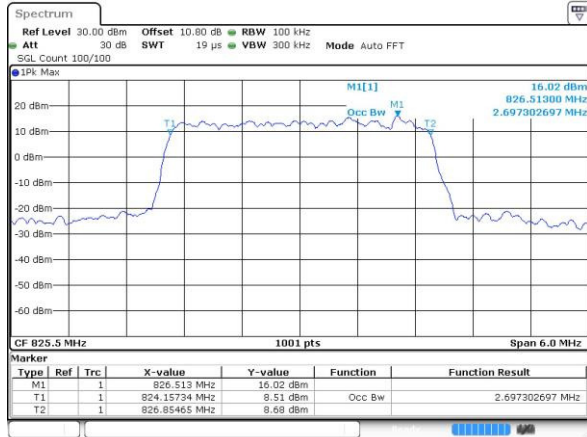
Highest Channel / 1.4MHz / 16QAM



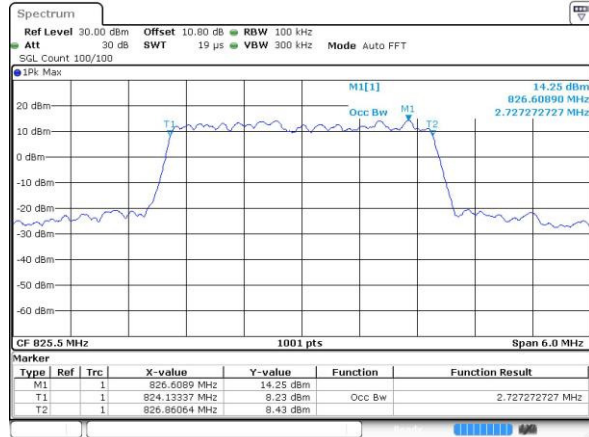


LTE Band 5

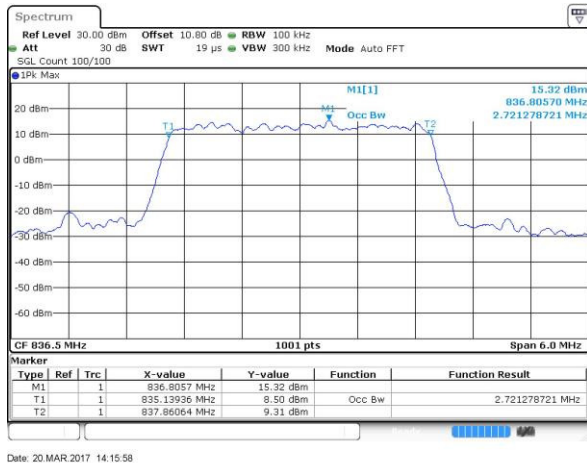
Lowest Channel / 3MHz / QPSK



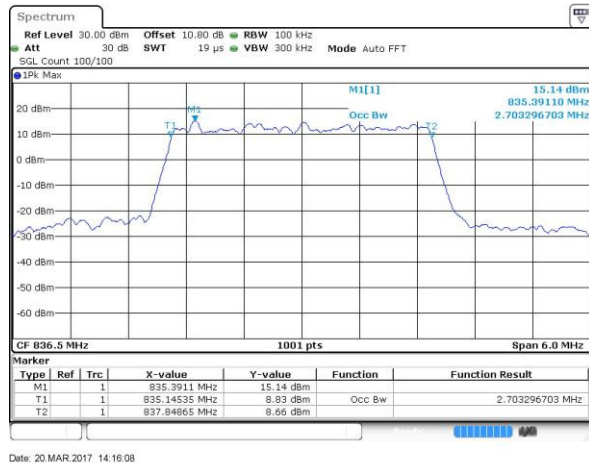
Lowest Channel / 3MHz / 16QAM



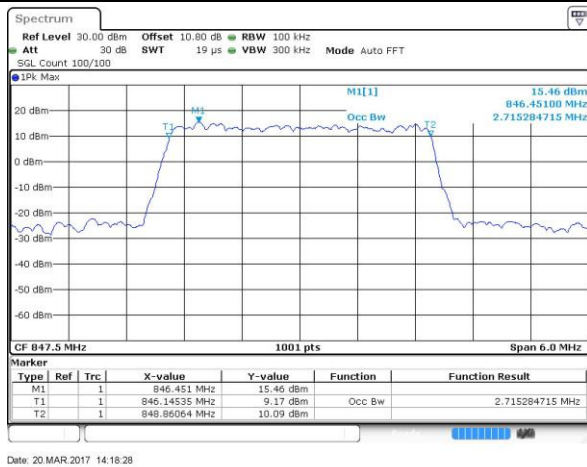
Middle Channel / 3MHz / QPSK



Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



Highest Channel / 3MHz / 16QAM

