



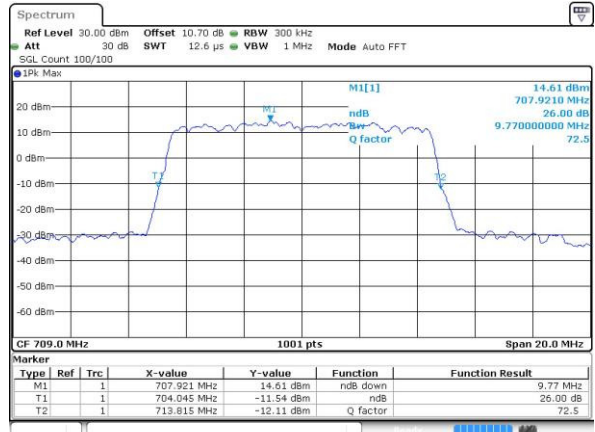
LTE Band 17

Lowest Channel / 10MHz / QPSK



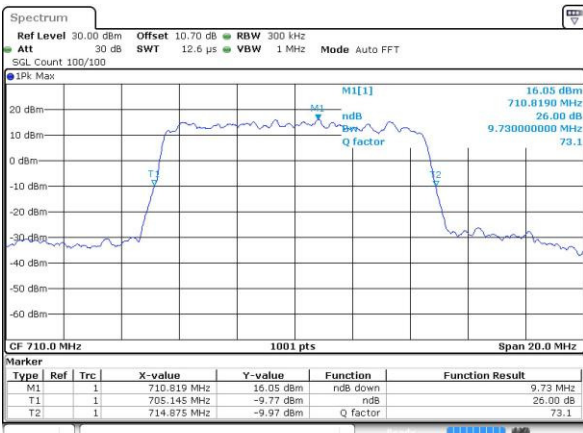
Date: 9 FEB 2017 09:55:14

Lowest Channel / 10MHz / 16QAM



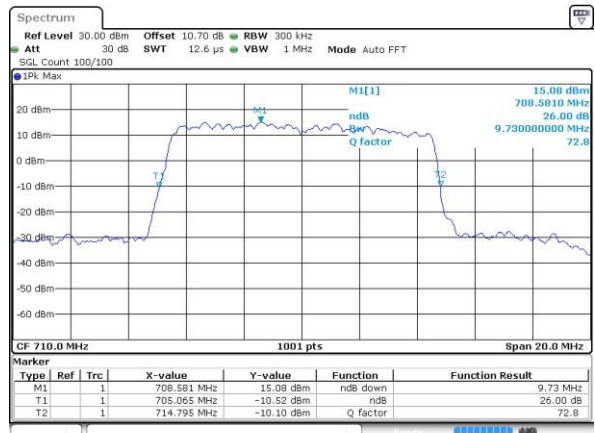
Date: 9 FEB 2017 09:55:24

Middle Channel / 10MHz / QPSK



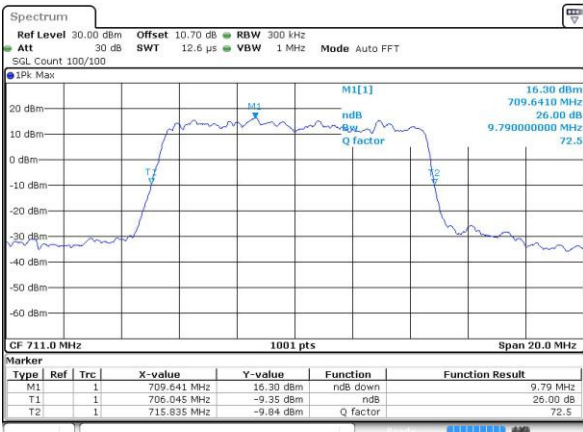
Date: 9 FEB 2017 10:02:21

Middle Channel / 10MHz / 16QAM



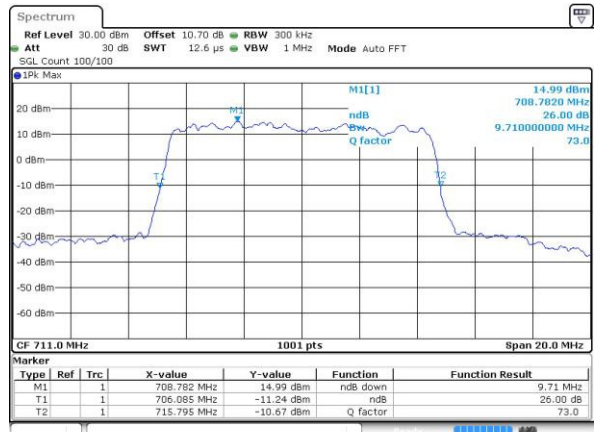
Date: 9 FEB 2017 10:02:32

Highest Channel / 10MHz / QPSK



Date: 9 FEB 2017 10:04:52

Highest Channel / 10MHz / 16QAM



Date: 9 FEB 2017 10:05:02



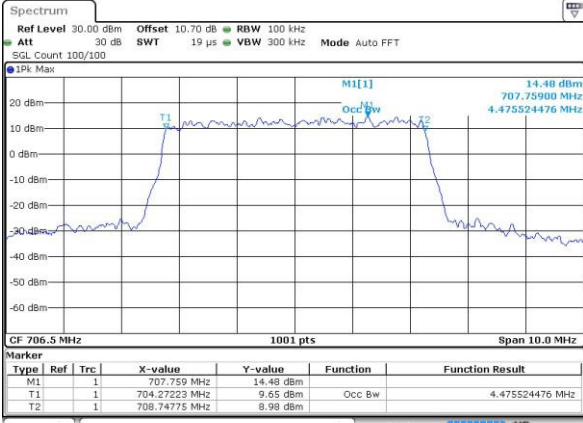
Occupied Bandwidth

Mode	LTE Band 17 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.48	4.51	9.01	8.95	-	-	-	-
Middle CH	-	-	-	-	4.5	4.48	8.97	8.99	-	-	-	-
Highest CH	-	-	-	-	4.49	4.49	9.03	8.95	-	-	-	-



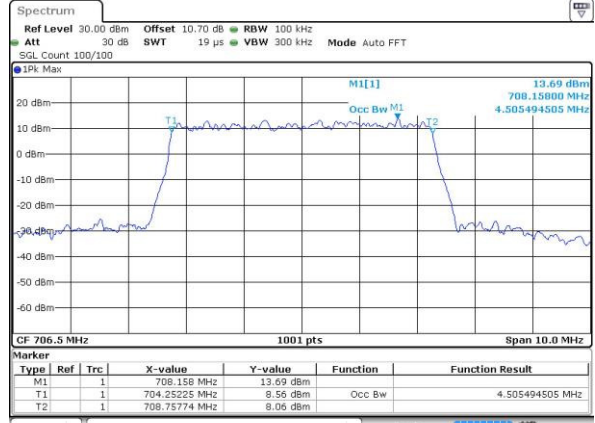
LTE Band 17

Lowest Channel / 5MHz / QPSK



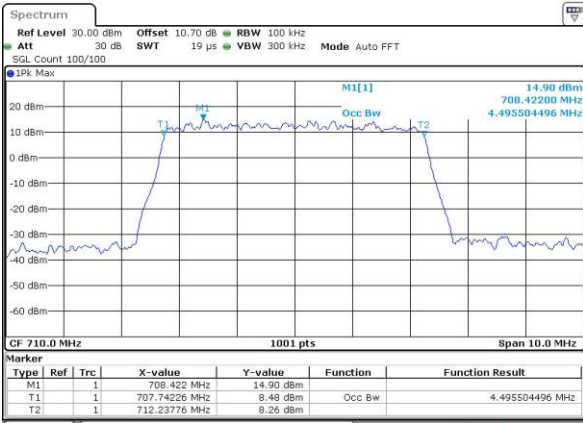
Date: 9 FEB 2017 01:17:35

Lowest Channel / 5MHz / 16QAM



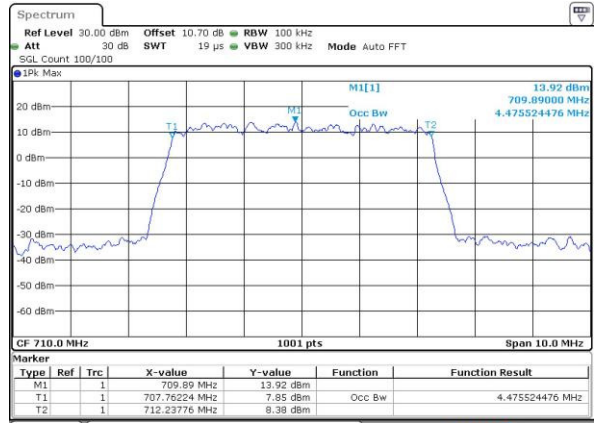
Date: 9 FEB 2017 01:17:46

Middle Channel / 5MHz / QPSK



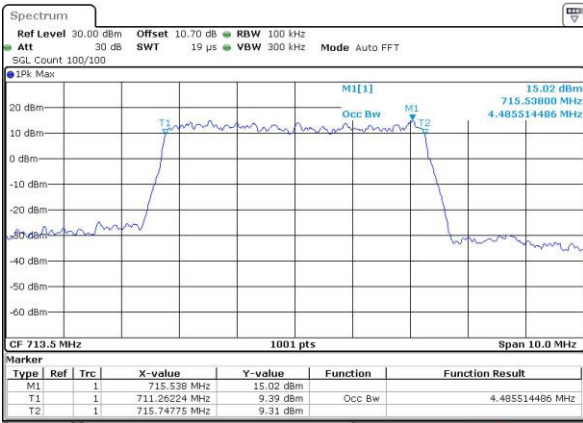
Date: 9 FEB 2017 01:24:42

Middle Channel / 5MHz / 16QAM



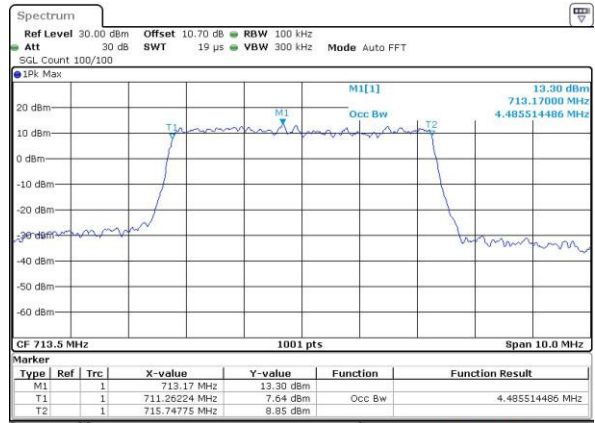
Date: 9 FEB 2017 01:24:53

Highest Channel / 5MHz / QPSK



Date: 9 FEB 2017 01:27:12

Highest Channel / 5MHz / 16QAM

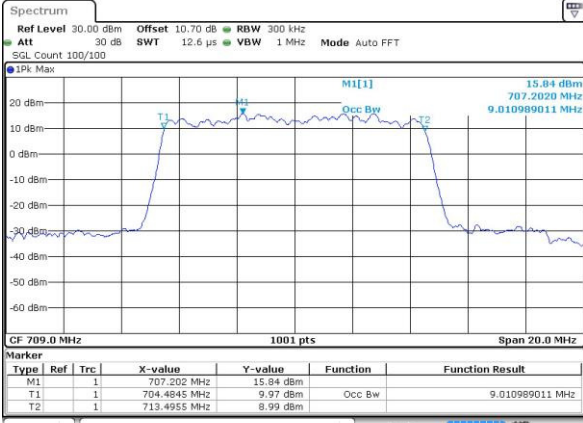


Date: 9 FEB 2017 01:27:22



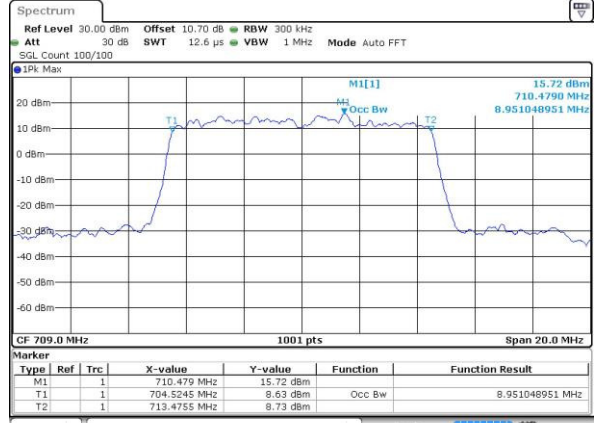
LTE Band 17

Lowest Channel / 10MHz / QPSK



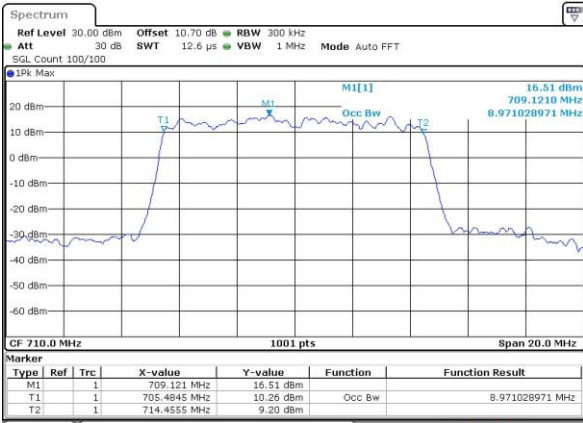
Date: 9 FEB 2017 09:54:53

Lowest Channel / 10MHz / 16QAM



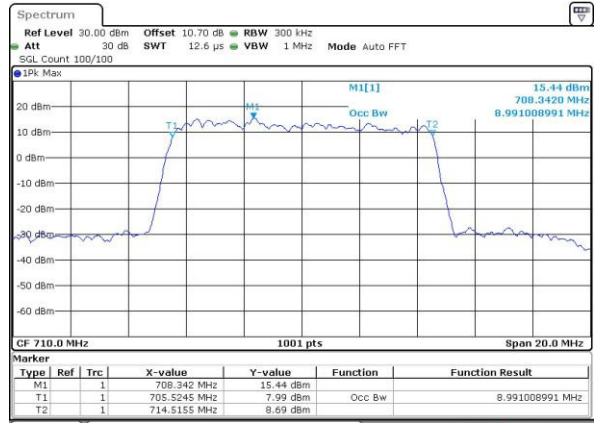
Date: 9 FEB 2017 09:55:03

Middle Channel / 10MHz / QPSK



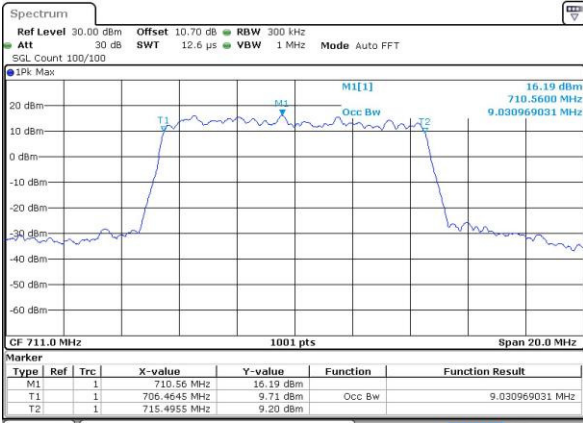
Date: 9 FEB 2017 10:02:01

Middle Channel / 10MHz / 16QAM



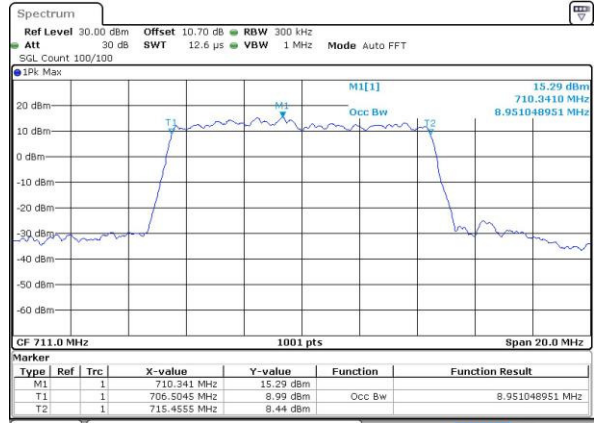
Date: 9 FEB 2017 10:02:11

Highest Channel / 10MHz / QPSK



Date: 9 FEB 2017 10:04:31

Highest Channel / 10MHz / 16QAM



Date: 9 FEB 2017 10:04:41

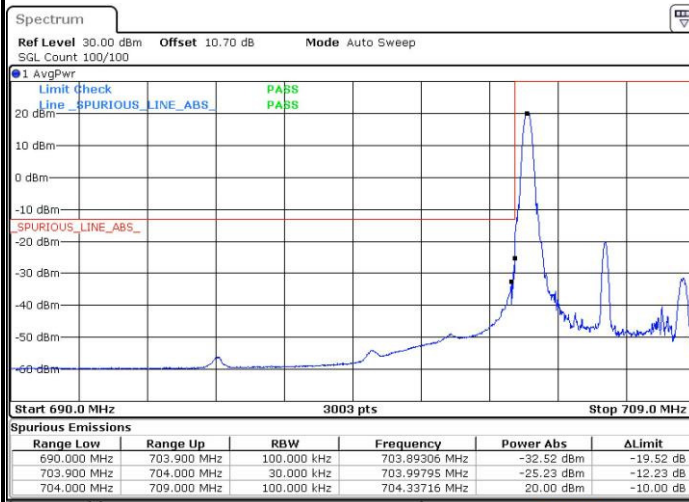


Conducted Band Edge



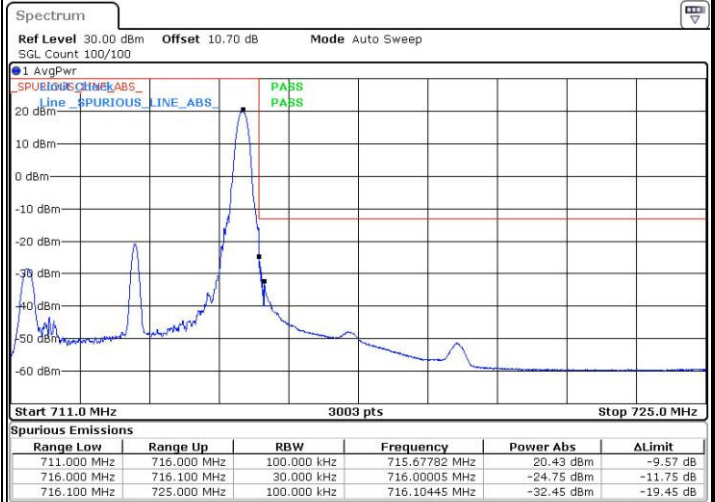
LTE Band 17 / 5MHz / QPSK

Lowest Band Edge / 1 RB



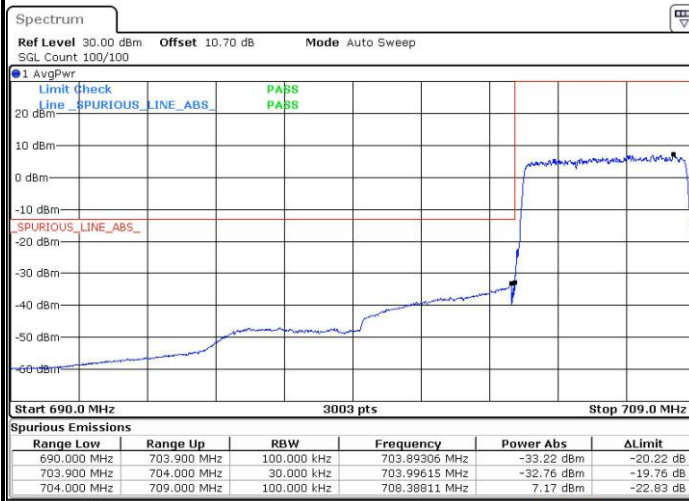
Date: 9 FEB 2017 01:19:15

Highest Band Edge / 1 RB



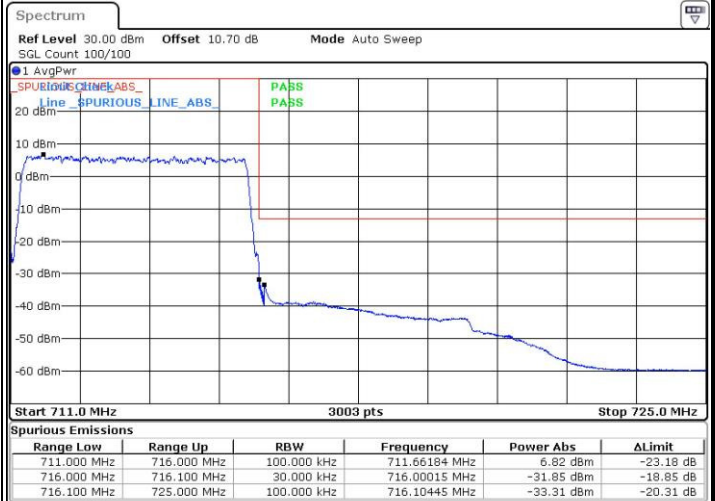
Date: 9 FEB 2017 01:28:52

Lowest Band Edge / Full RB



Date: 9 FEB 2017 01:21:34

Highest Band Edge / Full RB

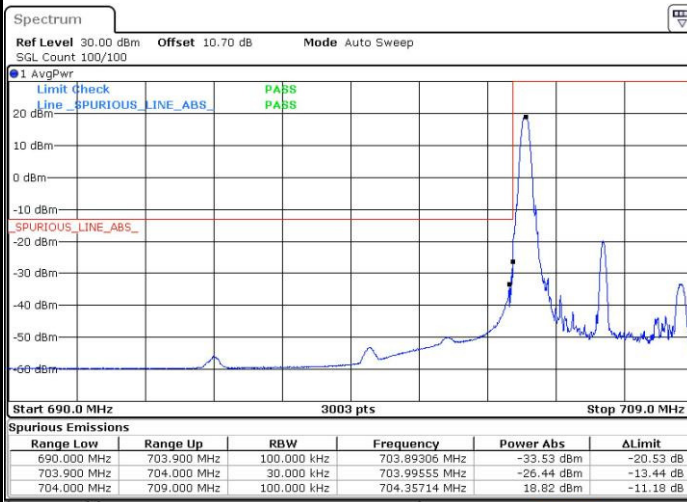


Date: 9 FEB 2017 01:31:10

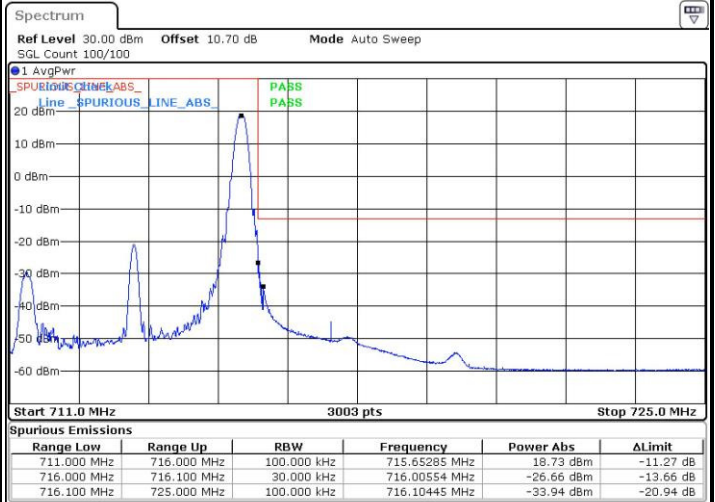


LTE Band 17 / 5MHz / 16QAM

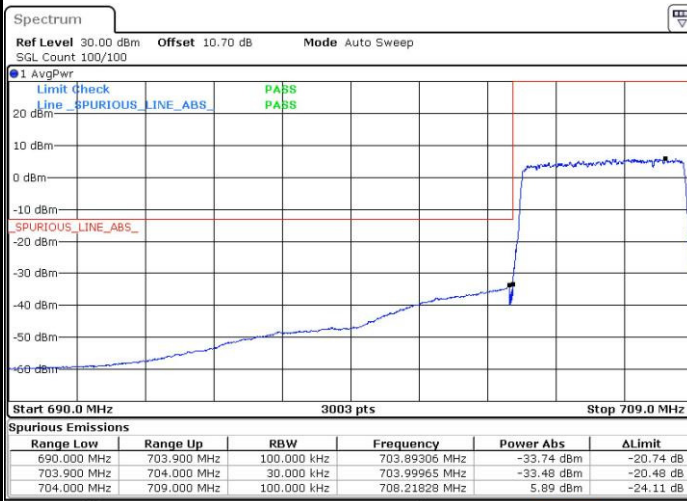
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



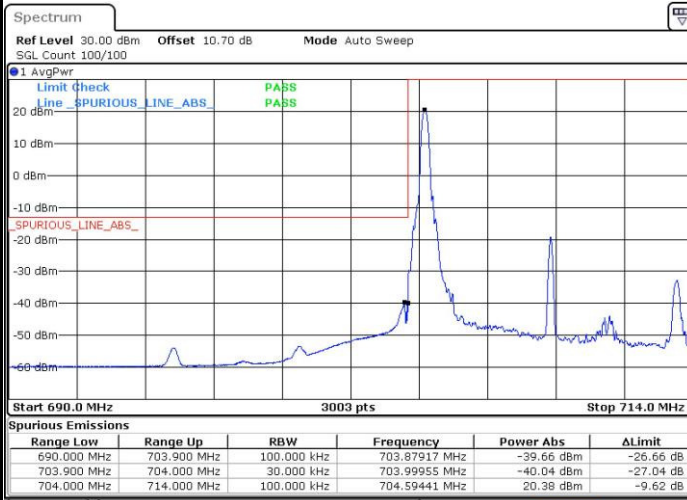
Highest Band Edge / Full RB





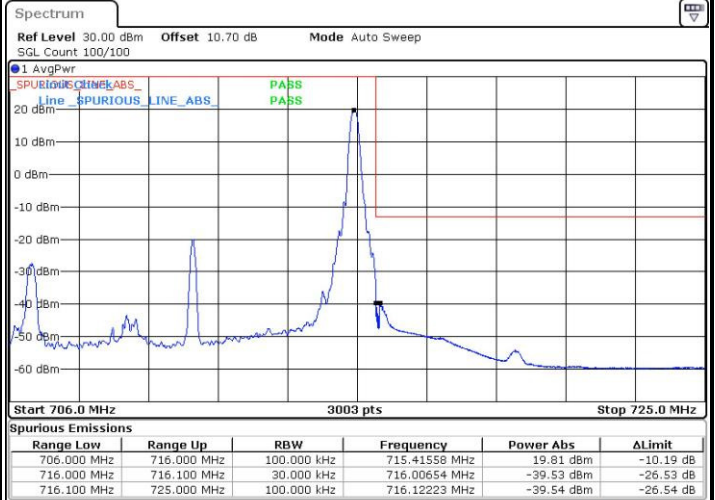
LTE Band 17 / 10MHz / QPSK

Lowest Band Edge / 1 RB



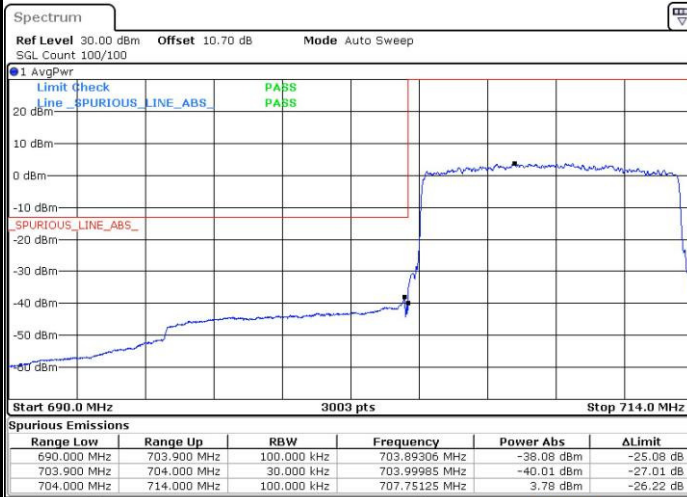
Date: 9 FEB 2017 09:56:33

Highest Band Edge / 1 RB



Date: 9 FEB 2017 10:06:11

Lowest Band Edge / Full RB



Date: 9 FEB 2017 09:58:52

Highest Band Edge / Full RB

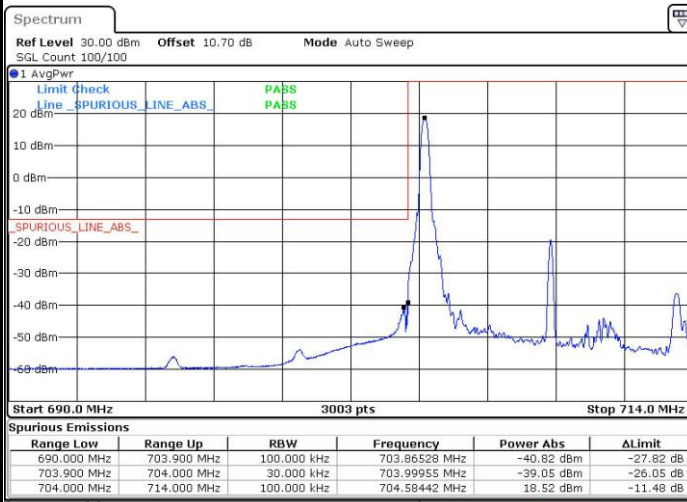


Date: 9 FEB 2017 10:08:29



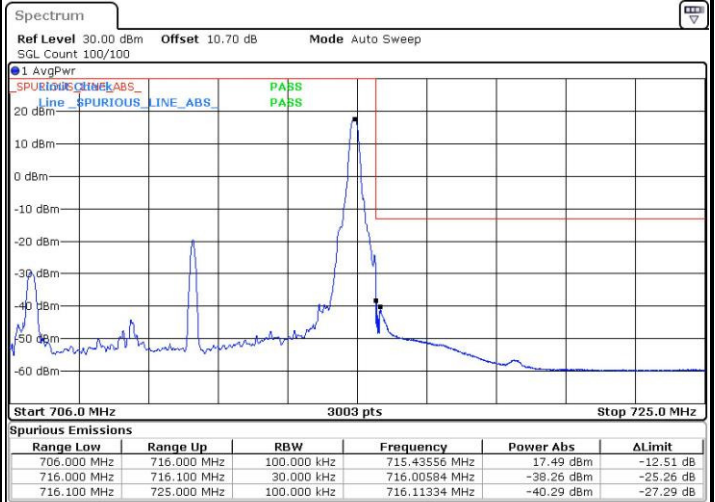
LTE Band 17 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



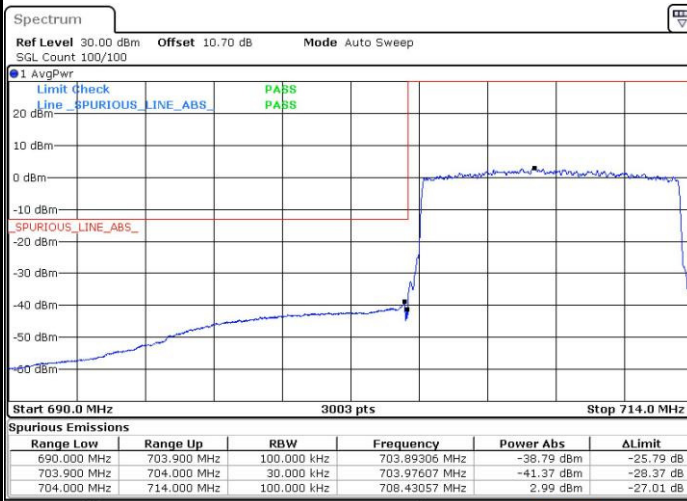
Date: 9 FEB 2017 09:57:43

Highest Band Edge / 1 RB



Date: 9 FEB 2017 10:07:20

Lowest Band Edge / Full RB



Date: 9 FEB 2017 10:00:01

Highest Band Edge / Full RB



Date: 9 FEB 2017 10:09:38



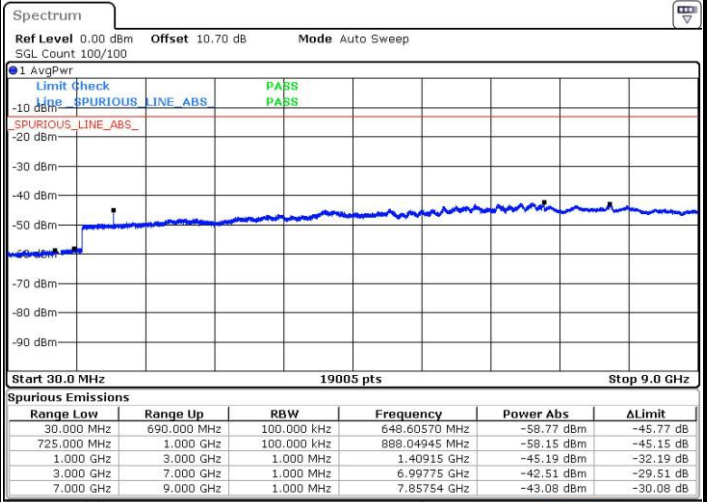
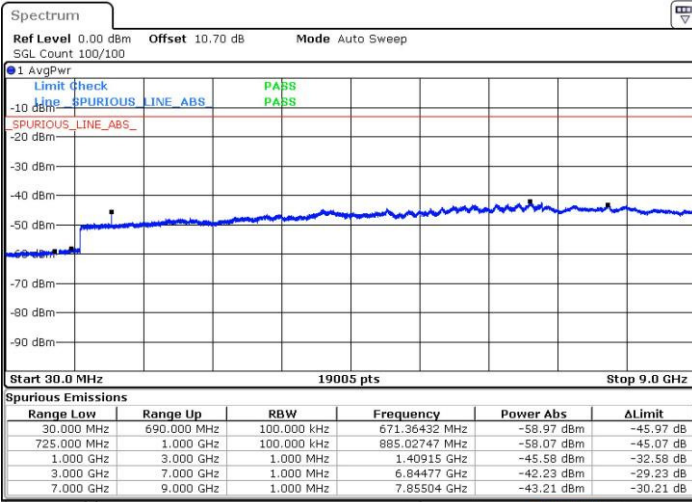
Conducted Spurious Emission



LTE Band 17 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

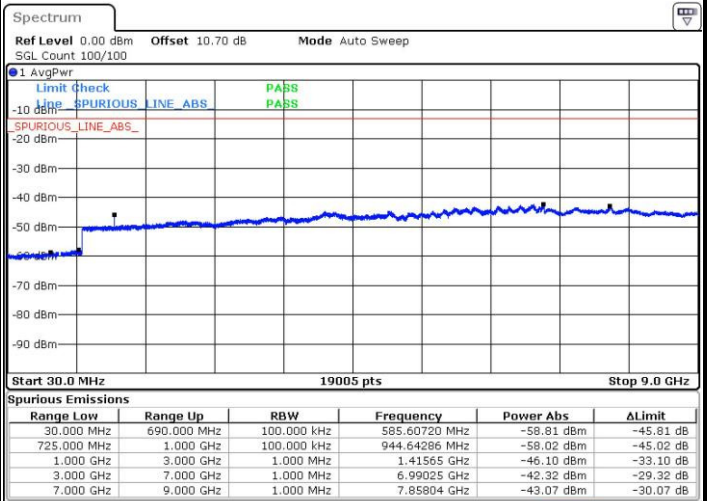
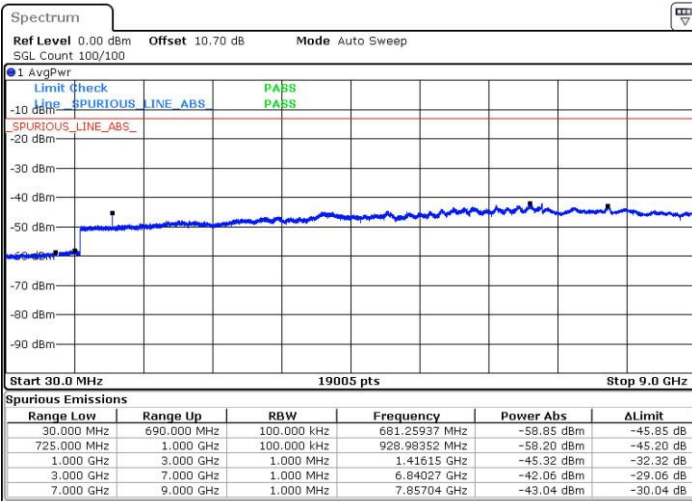


Date: 9 FEB 2017 01:23:38

Date: 9 FEB 2017 01:24:32

Middle Channel / QPSK

Middle Channel / 16QAM



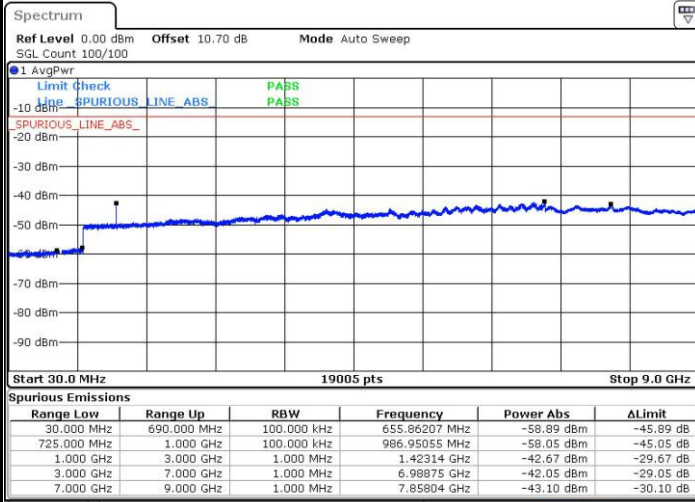
Date: 9 FEB 2017 01:26:08

Date: 9 FEB 2017 01:27:02



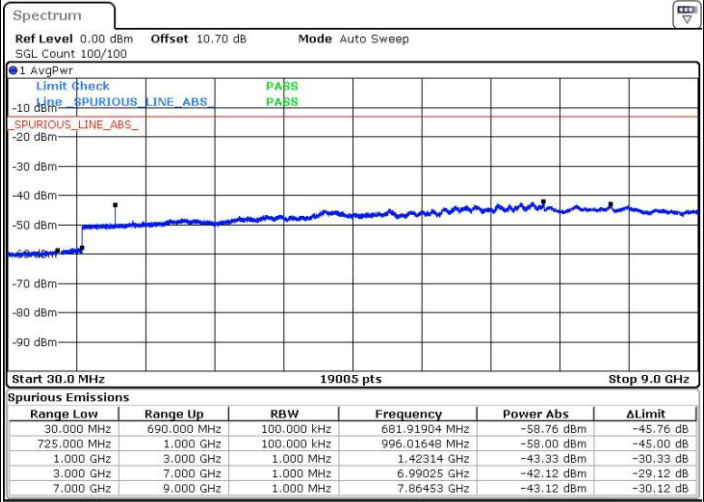
LTE Band 17 / 5MHz

Highest Channel / QPSK



Date: 9 FEB 2017 01:33:14

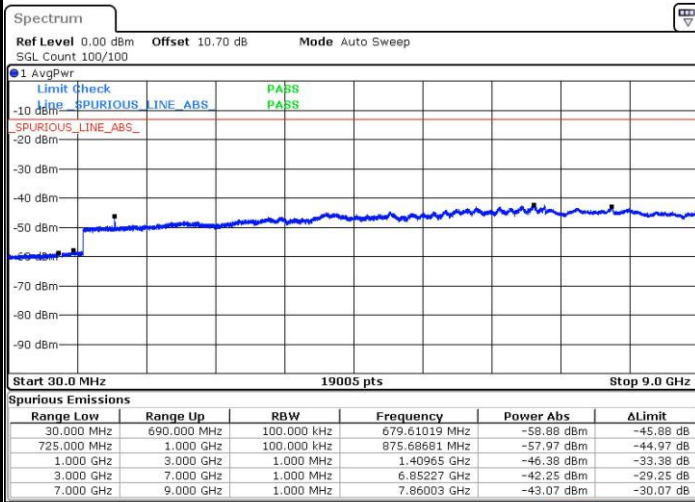
Highest Channel / 16QAM



Date: 9 FEB 2017 01:34:09

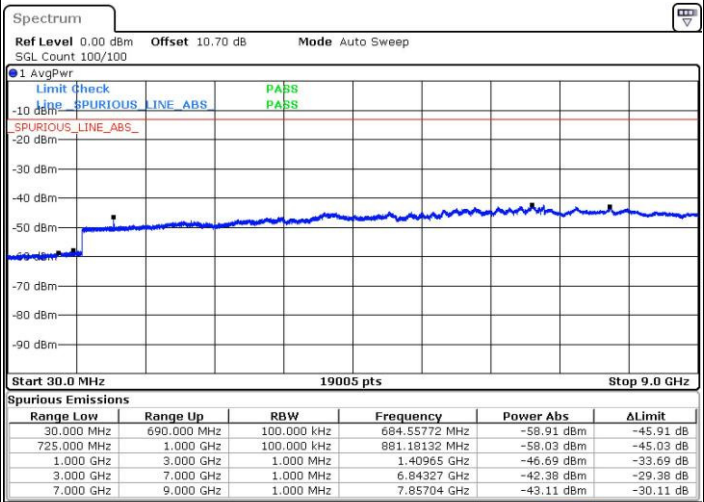
LTE Band 17 / 10MHz

Lowest Channel / QPSK



Date: 9 FEB 2017 10:00:56

Lowest Channel / 16QAM

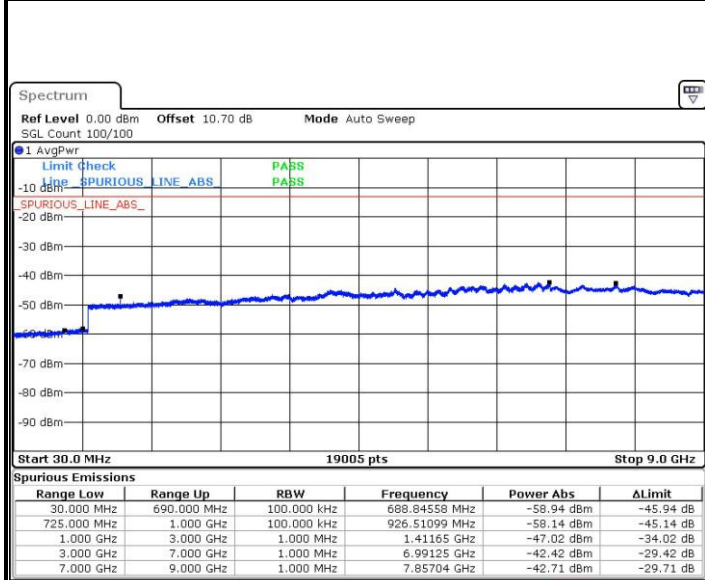


Date: 9 FEB 2017 10:01:50



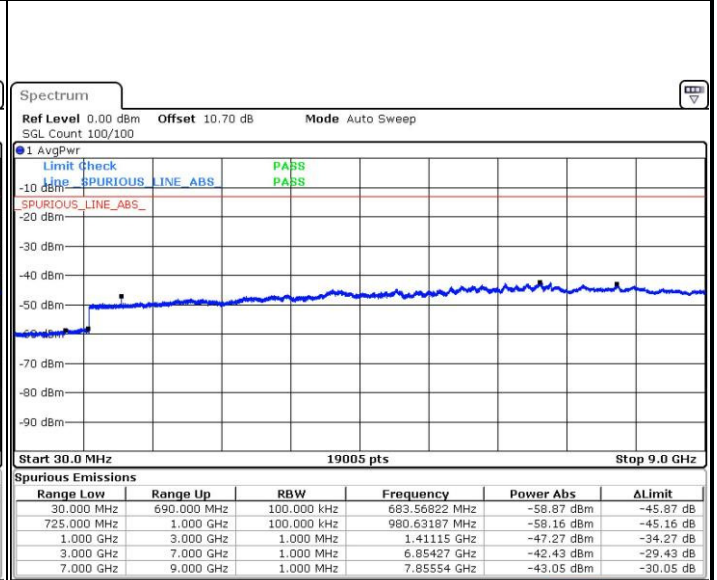
LTE Band 17 / 10MHz

Middle Channel / QPSK



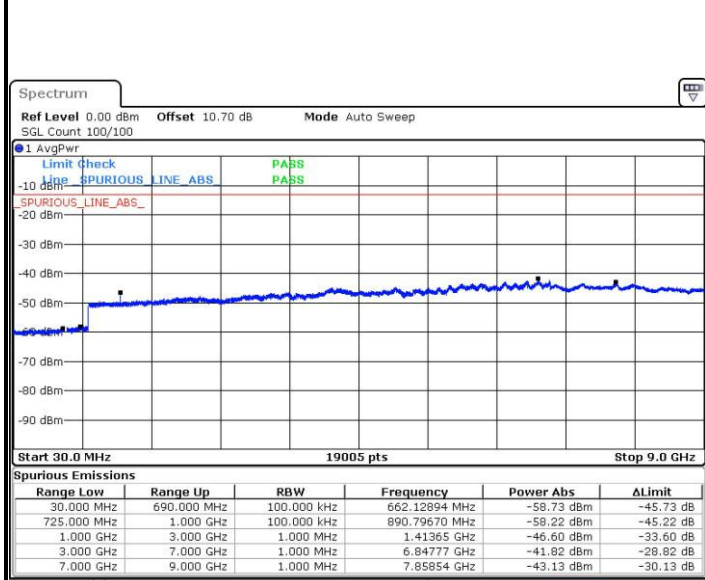
Date: 9 FEB 2017 10:03:26

Middle Channel / 16QAM



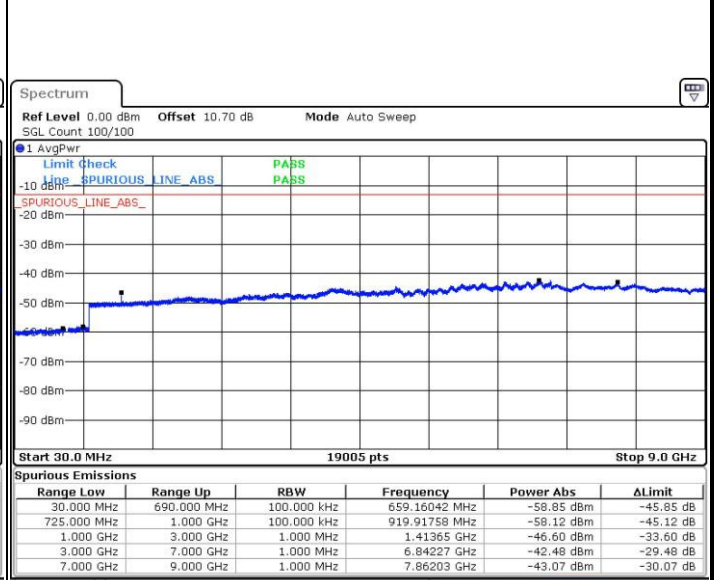
Date: 9 FEB 2017 10:04:21

Highest Channel / QPSK



Date: 9 FEB 2017 10:10:33

Highest Channel / 16QAM



Date: 9 FEB 2017 10:11:27



Frequency Stability

Test Conditions		LTE Band 17 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0011	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0103	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0011	
0	Normal Voltage	0.0023	
-10	Normal Voltage	0.0082	
-20	Normal Voltage	0.0017	
-30	Normal Voltage	0.0010	
20	Maximum Voltage	0.0080	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0061	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 38

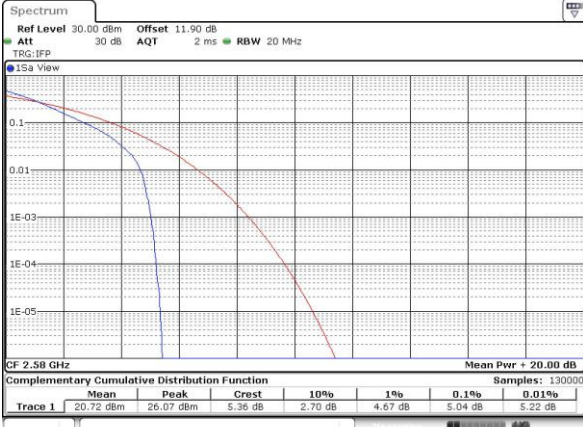
Peak-to-Average Ratio

Mode	LTE Band 38 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	5.04	5.33	5.71	6.29	PASS
Middle CH	4.99	5.39	5.91	6.41	
Highest CH	5.16	5.28	6.14	6.38	



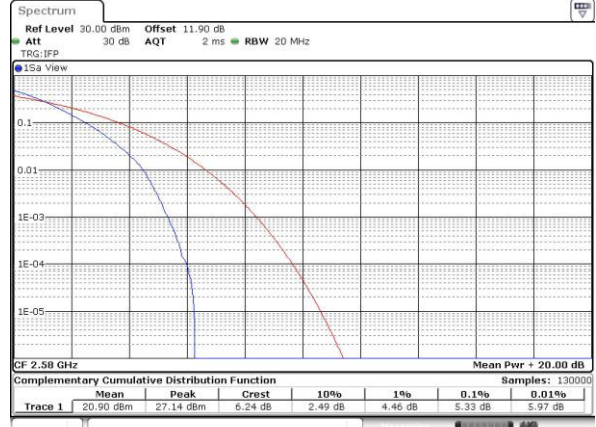
LTE Band 38 / 20MHz / QPSK

Lowest Channel / 1RB



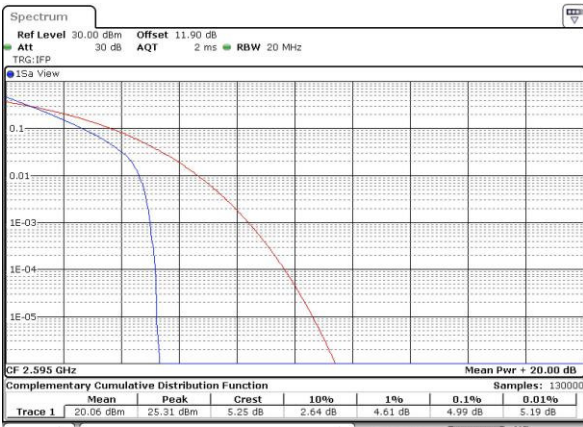
Date: 8 FEB 2017 11:12:25

Lowest Channel / Full RB



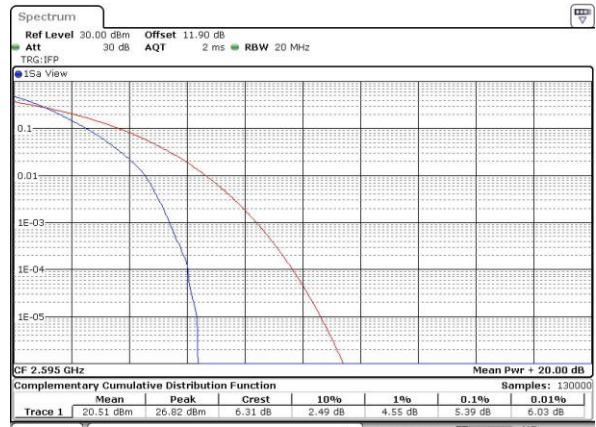
Date: 8 FEB 2017 11:12:43

Middle Channel / 1RB



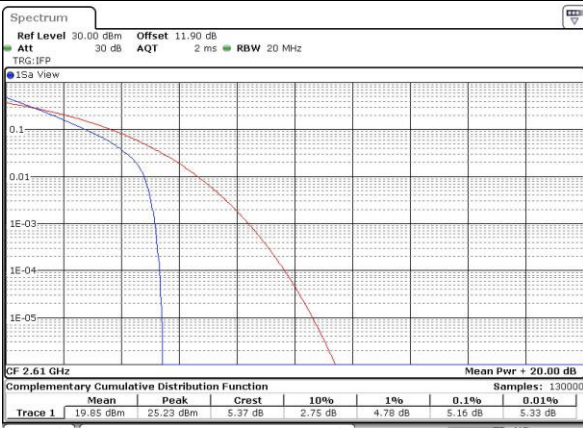
Date: 8 FEB 2017 11:13:49

Middle Channel / Full RB



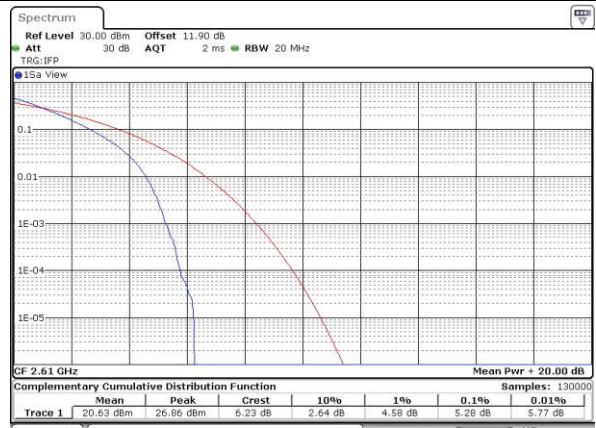
Date: 8 FEB 2017 11:14:15

Highest Channel / 1RB



Date: 8 FEB 2017 11:14:31

Highest Channel / Full RB

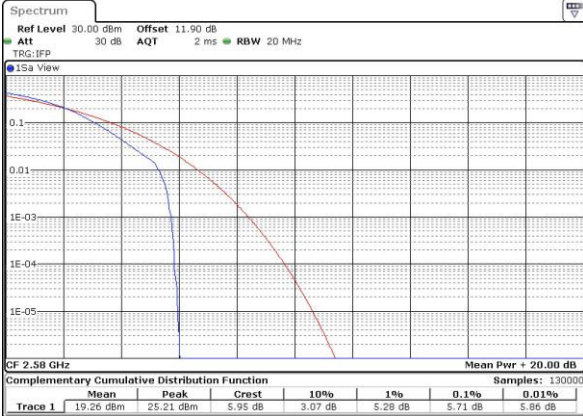


Date: 8 FEB 2017 11:14:48



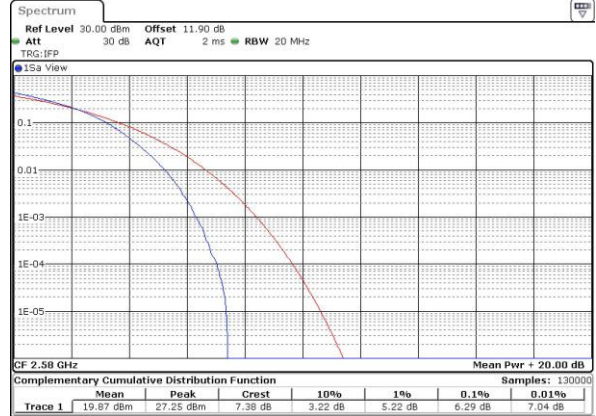
LTE Band 38 / 20MHz / 16QAM

Lowest Channel / 1RB



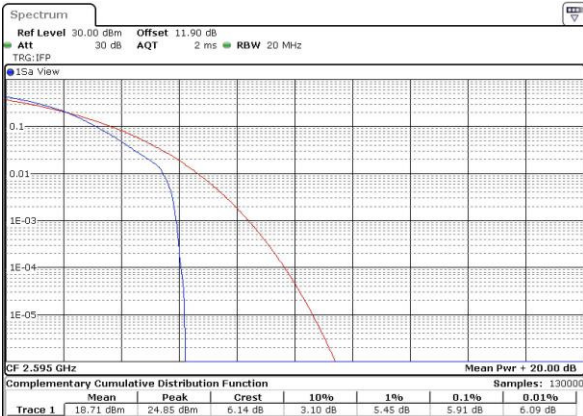
Date: 8 FEB 2017 11:15:17

Lowest Channel / Full RB



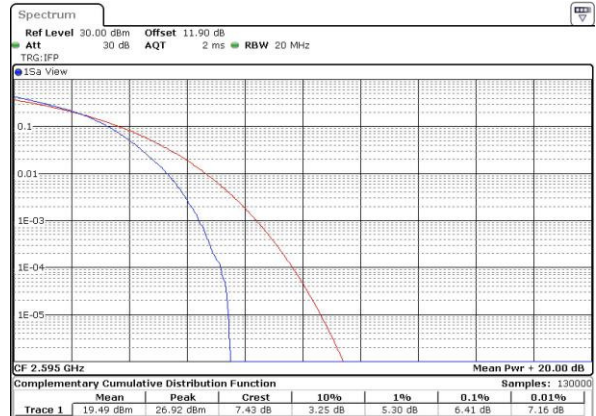
Date: 8 FEB 2017 11:10:08

Middle Channel / 1RB



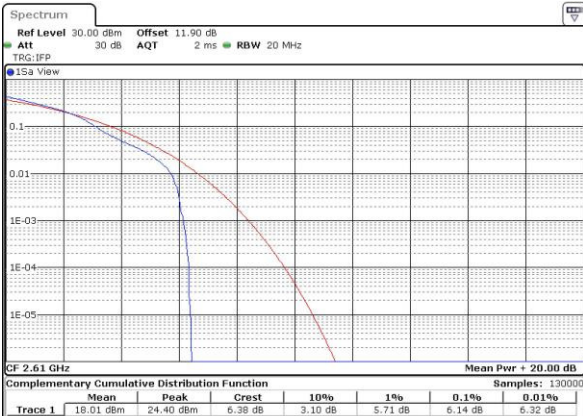
Date: 8 FEB 2017 11:10:31

Middle Channel / Full RB



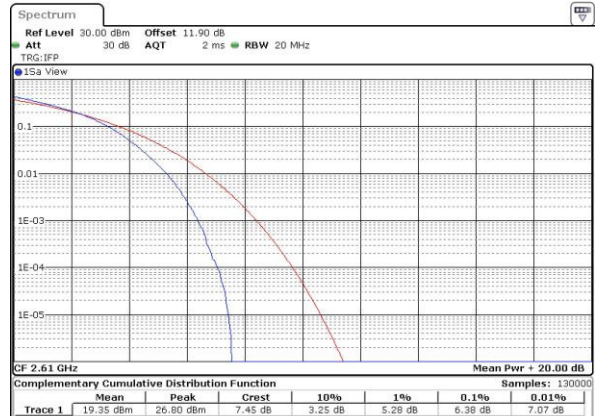
Date: 8 FEB 2017 11:10:55

Highest Channel / 1RB



Date: 8 FEB 2017 11:11:34

Highest Channel / Full RB



Date: 8 FEB 2017 11:11:58



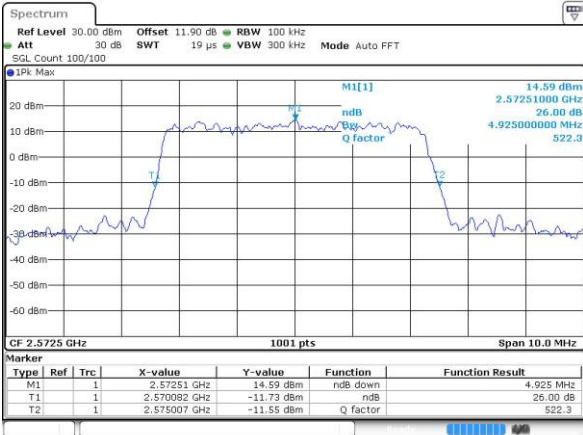
26dB Bandwidth

Mode	LTE Band 38 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.925	4.985	9.77	9.69	14.535	14.565	20.34	20.18
Middle CH	-	-	-	-	5.504	4.975	9.71	9.71	14.386	14.236	20.18	20.22
Highest CH	-	-	-	-	4.895	4.895	9.71	9.67	14.086	14.446	20.14	20.02



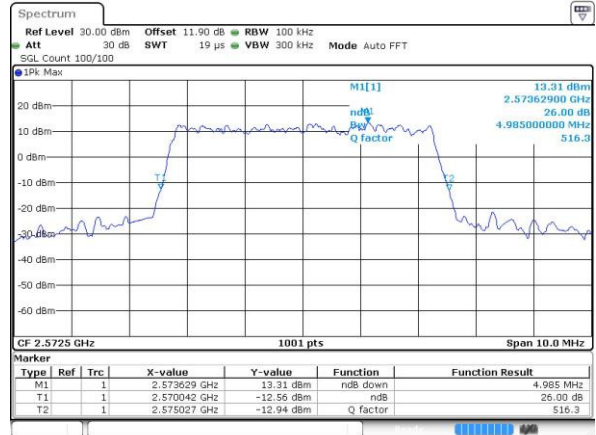
LTE Band 38

Lowest Channel / 5MHz / QPSK



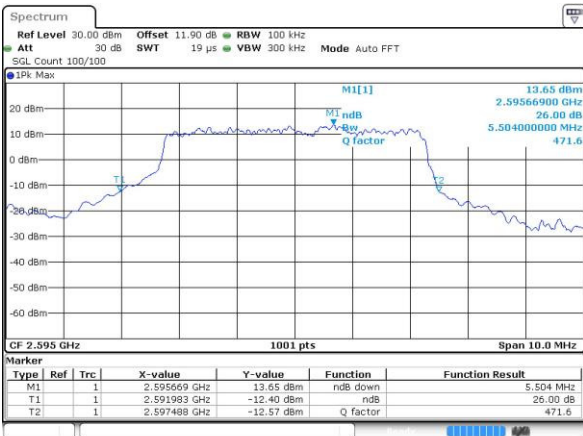
Date: 8 FEB 2017 11:01:27

Lowest Channel / 5MHz / 16QAM



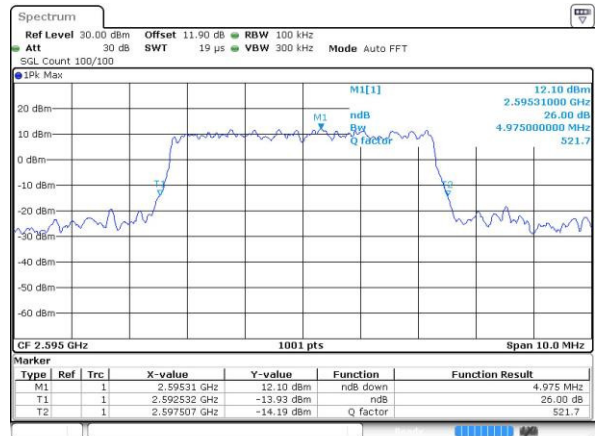
Date: 8 FEB 2017 11:01:37

Middle Channel / 5MHz / QPSK



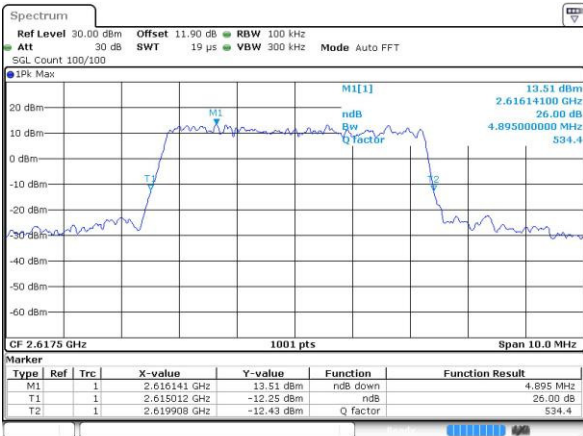
Date: 8 FEB 2017 11:02:09

Middle Channel / 5MHz / 16QAM



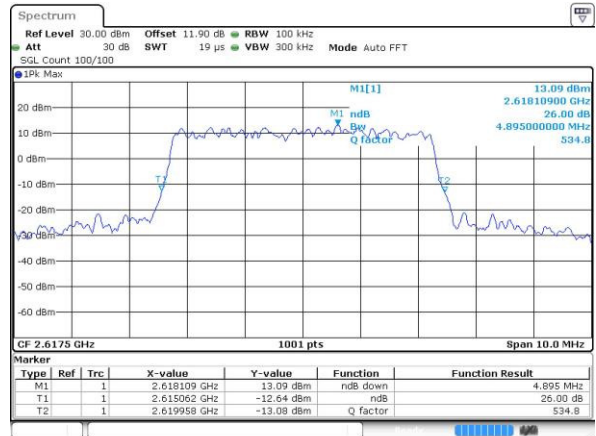
Date: 8 FEB 2017 11:02:19

Highest Channel / 5MHz / QPSK



Date: 8 FEB 2017 11:02:50

Highest Channel / 5MHz / 16QAM

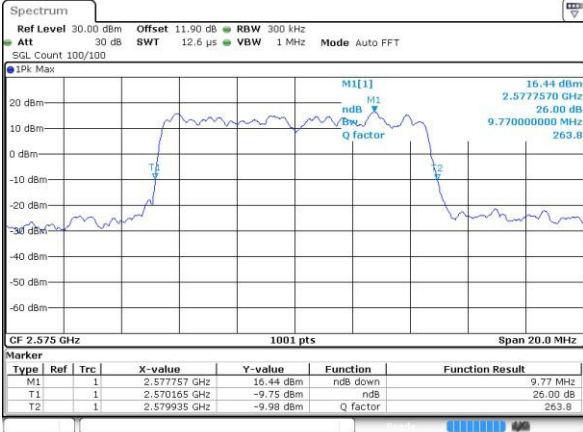


Date: 8 FEB 2017 11:03:01



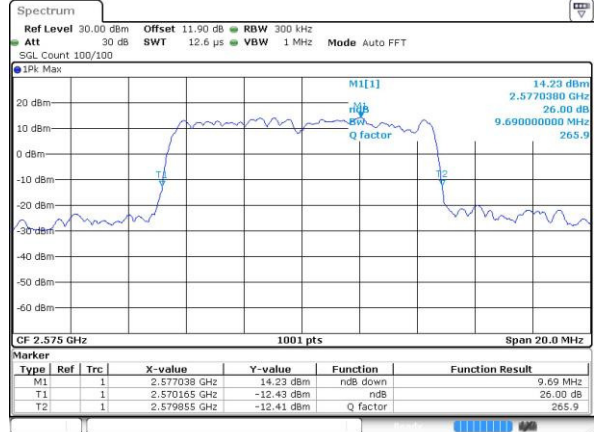
LTE Band 38

Lowest Channel / 10MHz / QPSK



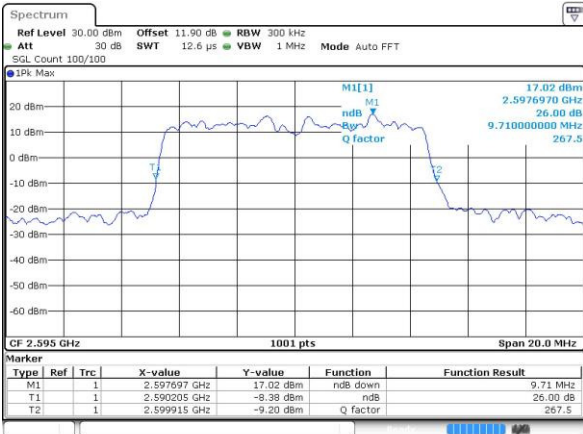
Date: 8 FEB 2017 11:03:32

Lowest Channel / 10MHz / 16QAM



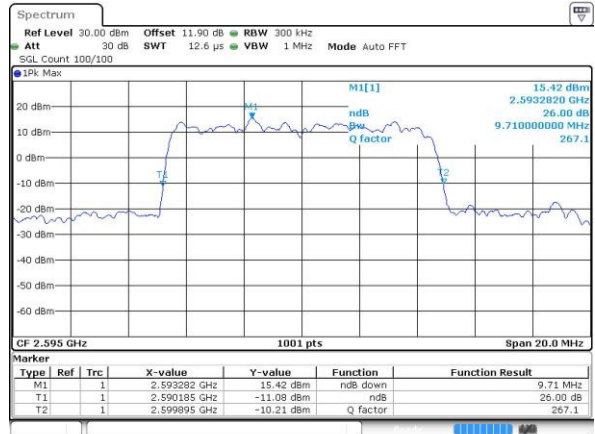
Date: 8 FEB 2017 11:03:42

Middle Channel / 10MHz / QPSK



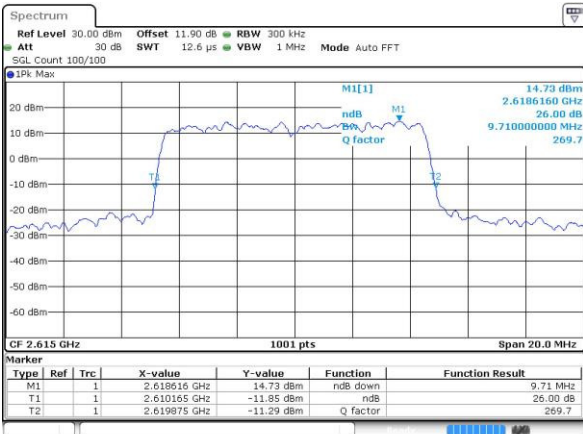
Date: 8 FEB 2017 11:04:13

Middle Channel / 10MHz / 16QAM



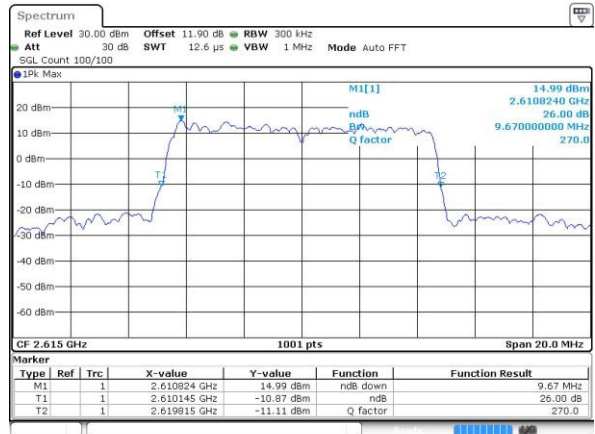
Date: 8 FEB 2017 11:04:24

Highest Channel / 10MHz / QPSK



Date: 8 FEB 2017 11:04:55

Highest Channel / 10MHz / 16QAM

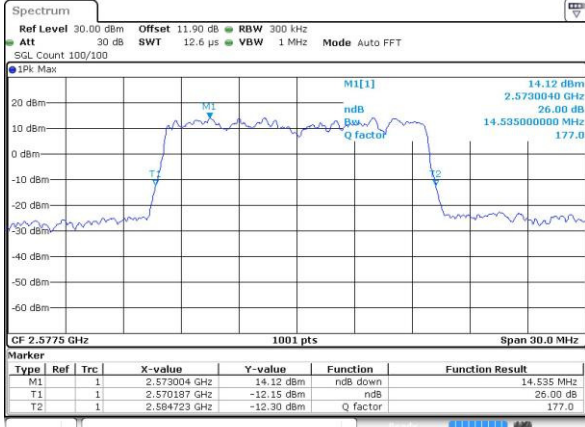


Date: 8 FEB 2017 11:05:05



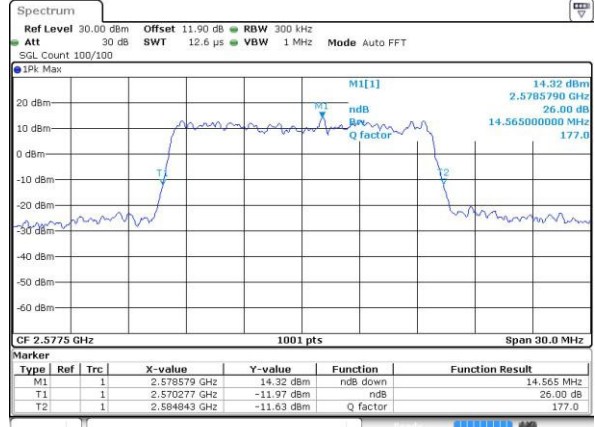
LTE Band 38

Lowest Channel / 15MHz / QPSK



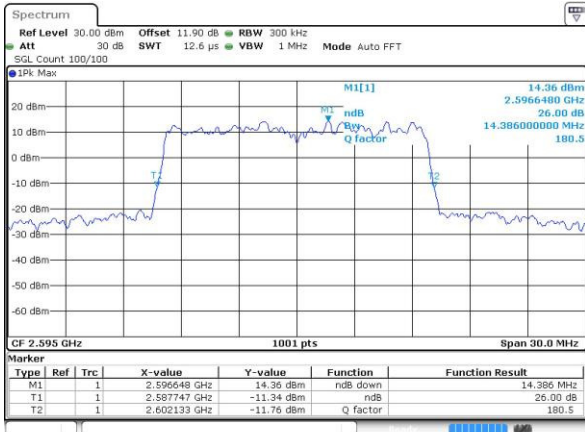
Date: 8 FEB 2017 11:05:36

Lowest Channel / 15MHz / 16QAM



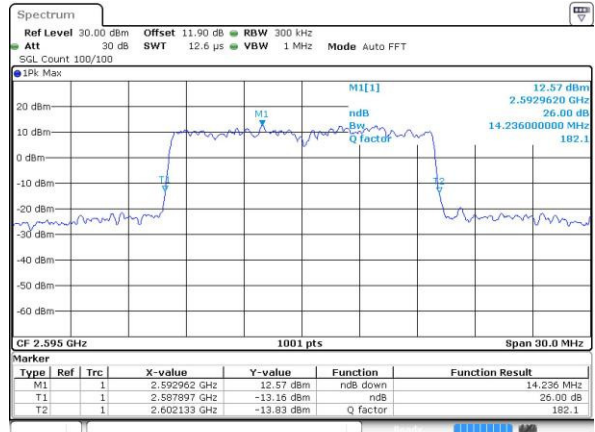
Date: 8 FEB 2017 11:05:47

Middle Channel / 15MHz / QPSK



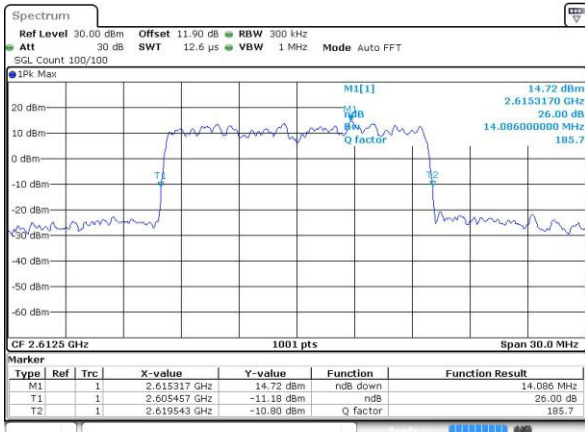
Date: 8 FEB 2017 11:06:16

Middle Channel / 15MHz / 16QAM



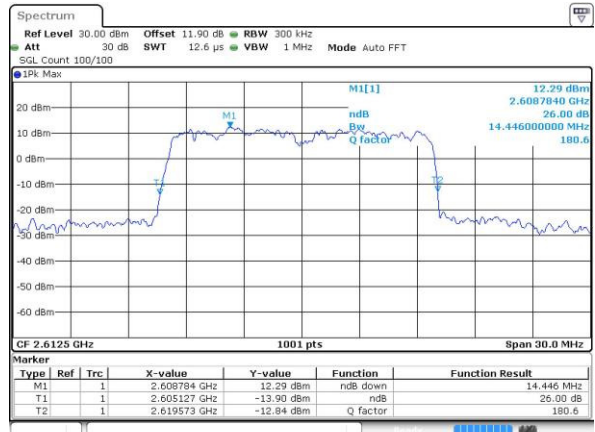
Date: 8 FEB 2017 11:06:28

Highest Channel / 15MHz / QPSK



Date: 9 FEB 2017 10:23:29

Highest Channel / 15MHz / 16QAM

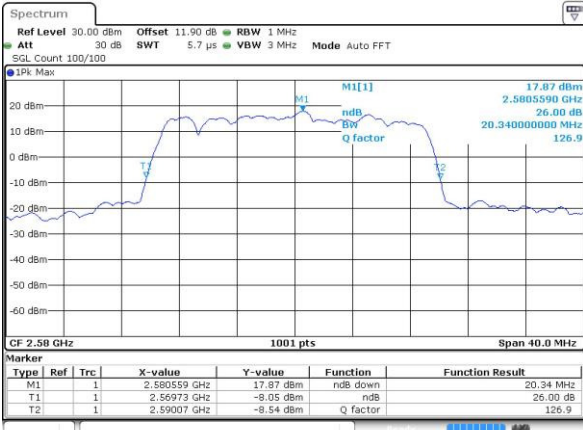


Date: 8 FEB 2017 11:07:10



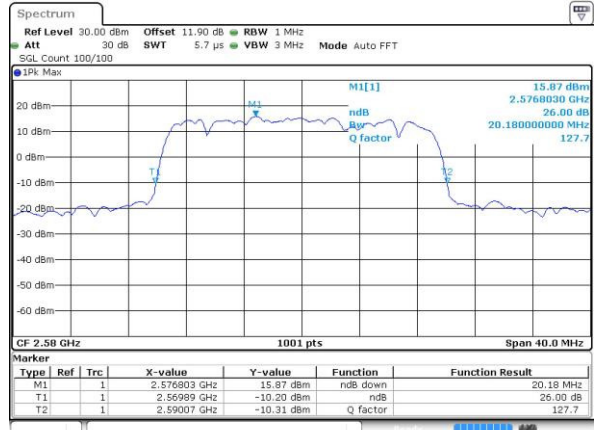
LTE Band 38

Lowest Channel / 20MHz / QPSK



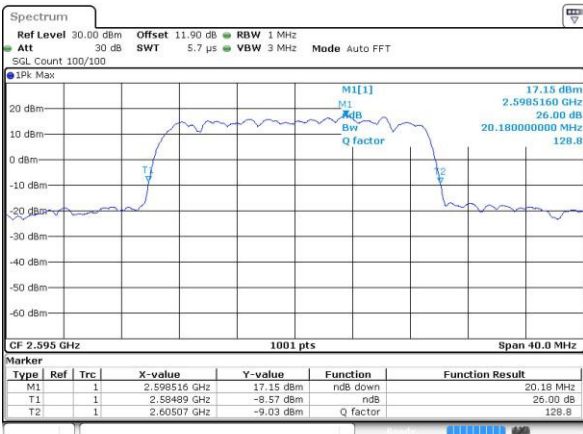
Date: 8 FEB 2017 11:07:41

Lowest Channel / 20MHz / 16QAM



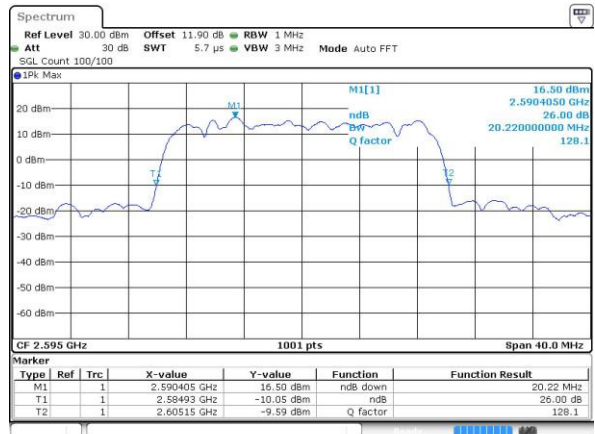
Date: 8 FEB 2017 11:07:51

Middle Channel / 20MHz / QPSK



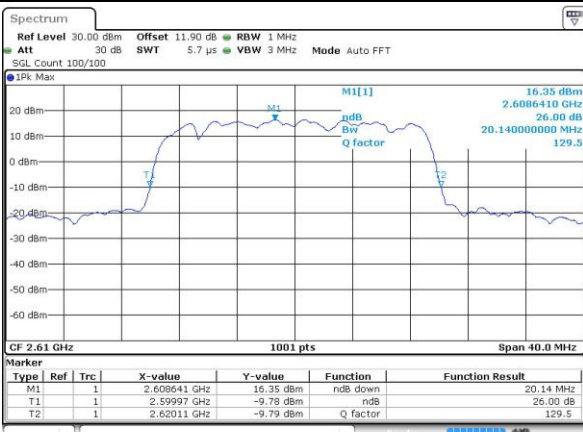
Date: 8 FEB 2017 11:08:22

Middle Channel / 20MHz / 16QAM



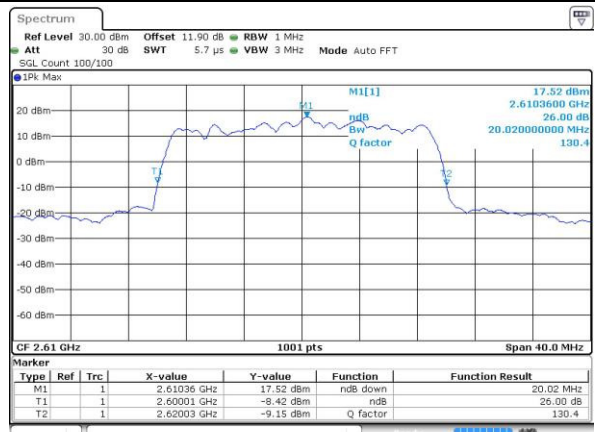
Date: 8 FEB 2017 11:08:33

Highest Channel / 20MHz / QPSK



Date: 8 FEB 2017 11:09:04

Highest Channel / 20MHz / 16QAM



Date: 8 FEB 2017 11:09:14



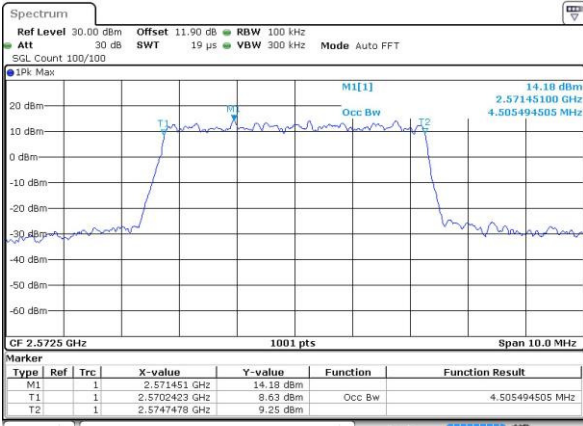
Occupied Bandwidth

Mode	LTE Band 38 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.51	4.5	9.07	9.07	13.46	13.4	18.38	18.34
Middle CH	-	-	-	-	4.5	4.47	8.93	8.97	13.46	13.37	18.38	18.34
Highest CH	-	-	-	-	4.49	4.5	8.99	9.03	13.4	13.37	18.26	18.26



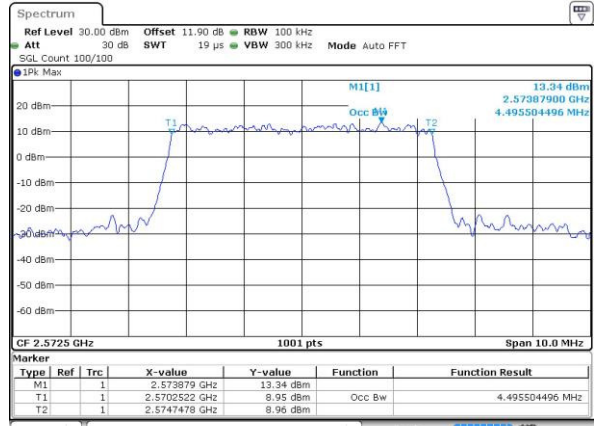
LTE Band 38

Lowest Channel / 5MHz / QPSK



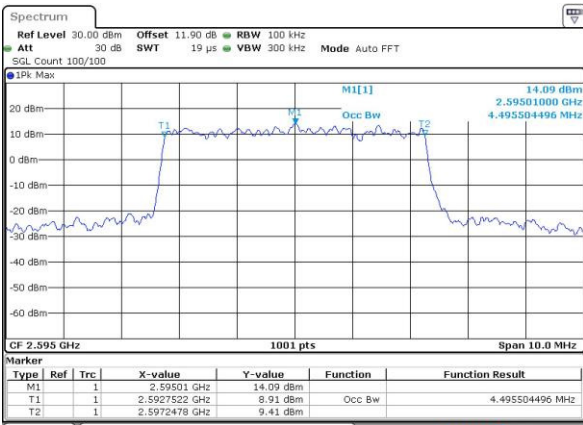
Date: 8 FEB 2017 11:01:06

Lowest Channel / 5MHz / 16QAM



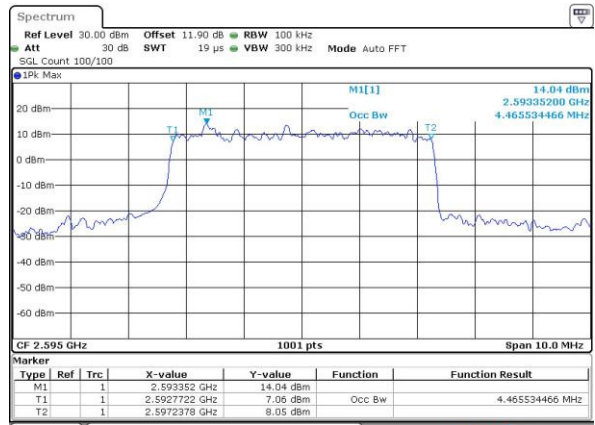
Date: 8 FEB 2017 11:01:17

Middle Channel / 5MHz / QPSK



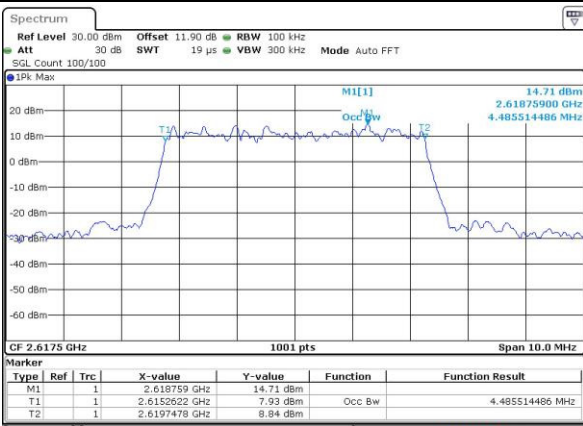
Date: 8 FEB 2017 13:40:44

Middle Channel / 5MHz / 16QAM



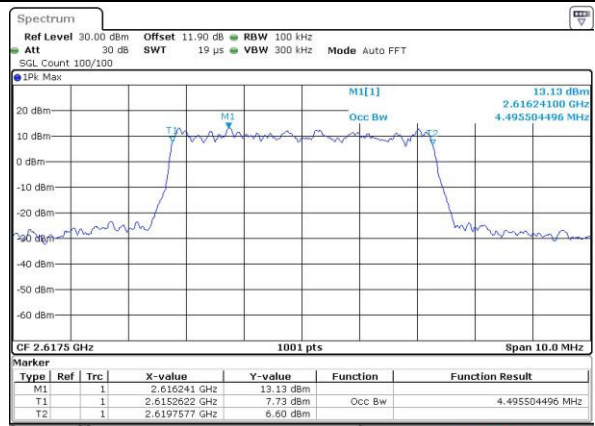
Date: 8 FEB 2017 11:01:58

Highest Channel / 5MHz / QPSK



Date: 8 FEB 2017 11:02:29

Highest Channel / 5MHz / 16QAM



Date: 8 FEB 2017 11:02:40