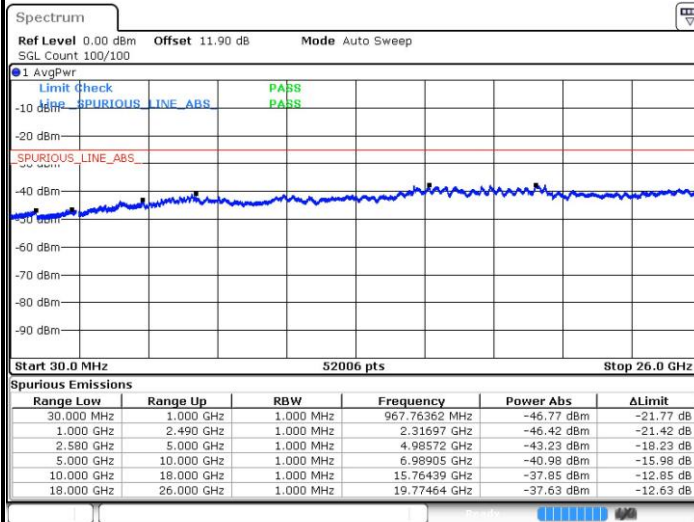




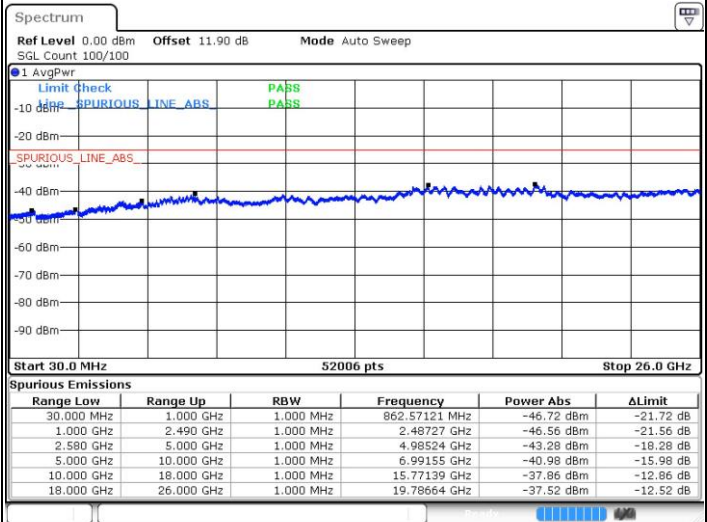
LTE Band 7 / 10MHz

Middle Channel / QPSK



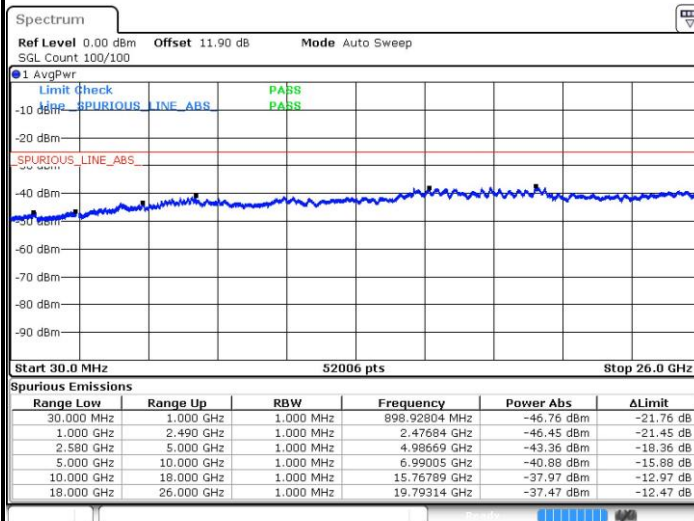
Date: 16 JUN 2017 01:37:18

Middle Channel / 16QAM



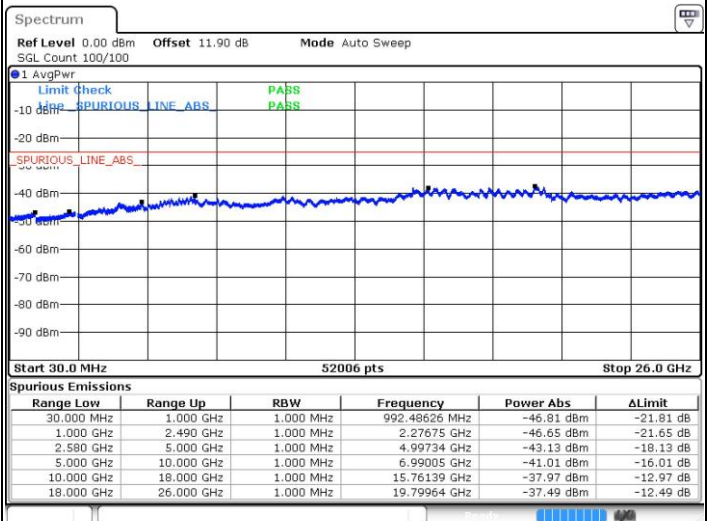
Date: 16 JUN 2017 01:38:12

Highest Channel / QPSK



Date: 16 JUN 2017 01:44:27

Highest Channel / 16QAM

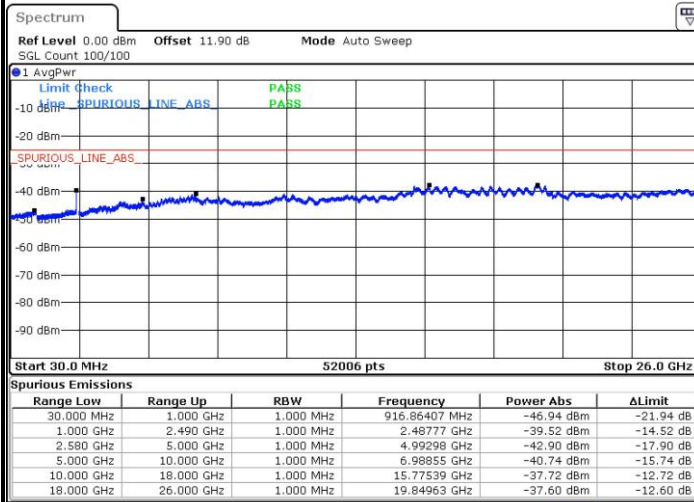


Date: 16 JUN 2017 01:45:21



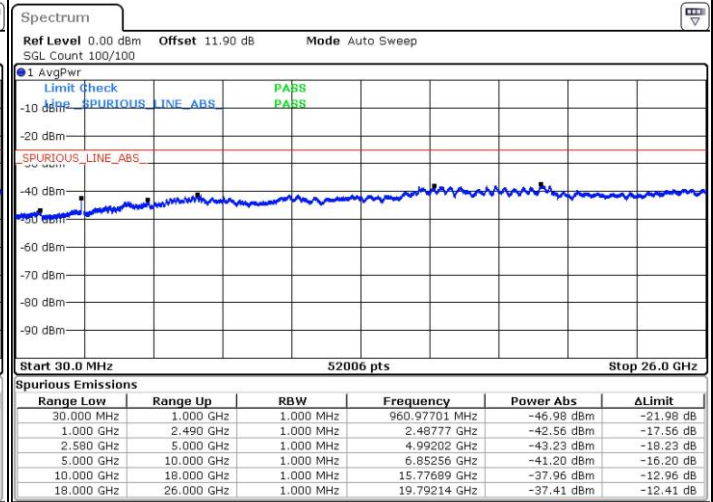
LTE Band 7 / 15MHz

Lowest Channel / QPSK



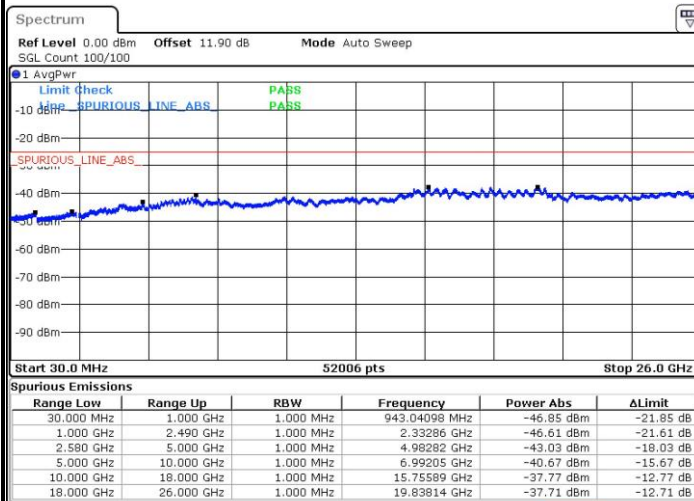
Date: 16 JUN 2017 01:51:35

Lowest Channel / 16QAM



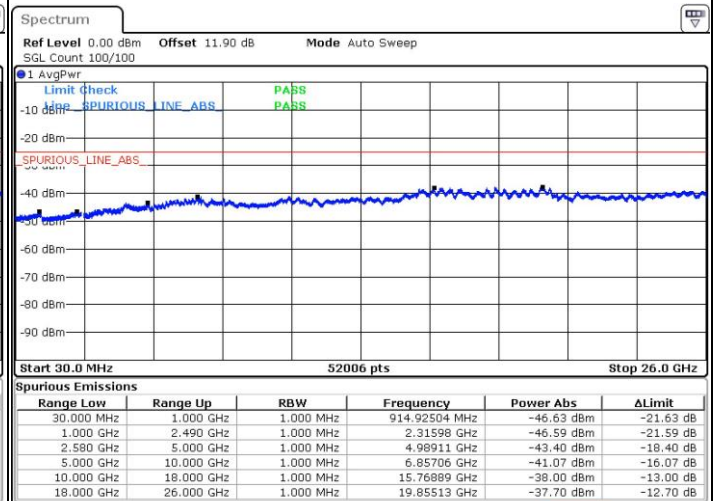
Date: 16 JUN 2017 01:52:29

Middle Channel / QPSK



Date: 16 JUN 2017 01:54:04

Middle Channel / 16QAM

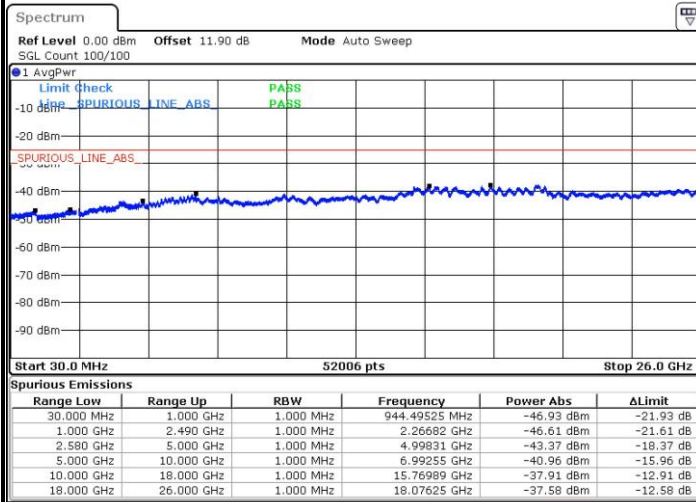


Date: 16 JUN 2017 01:54:58



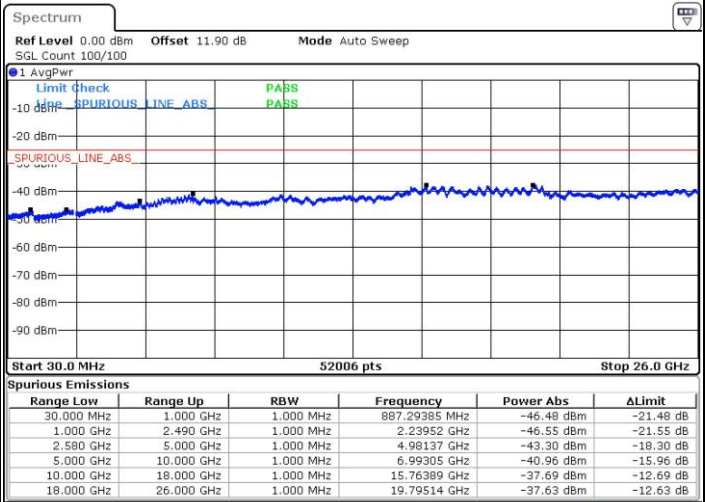
LTE Band7 / 15MHz

Highest Channel / QPSK



Date: 16 JUN 2017 02:01:14

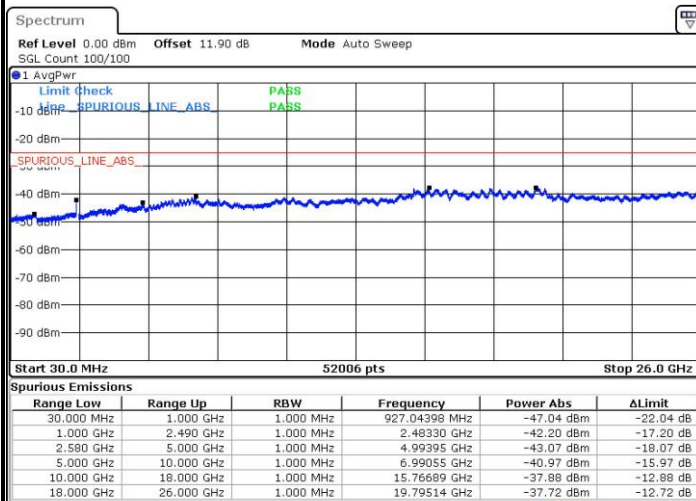
Highest Channel / 16QAM



Date: 16 JUN 2017 02:02:07

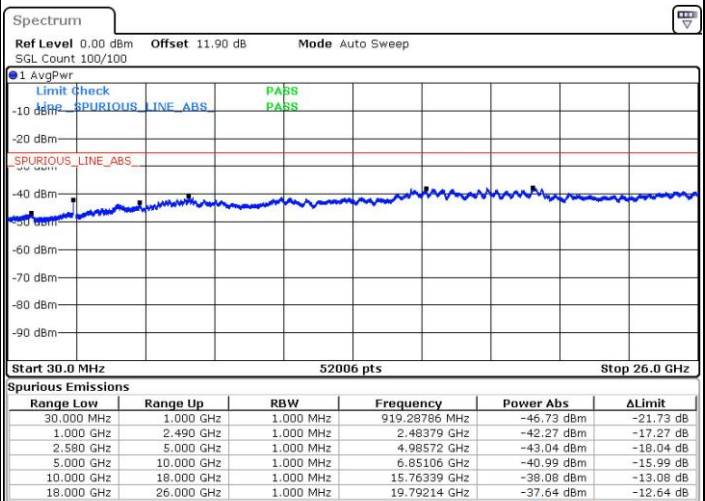
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 16 JUN 2017 08:55:17

Lowest Channel / 16QAM

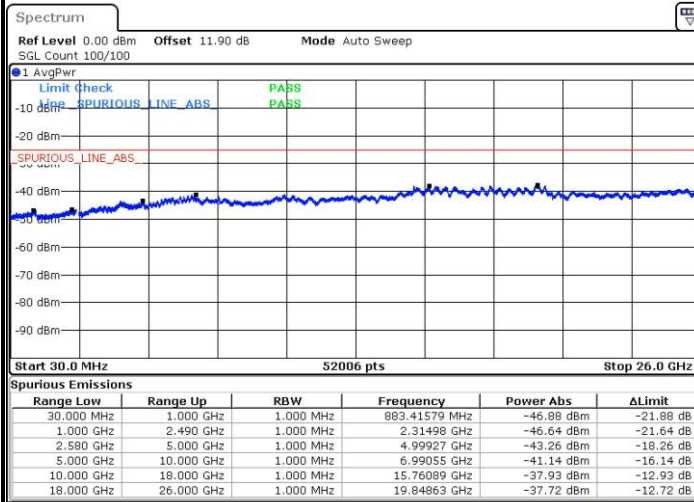


Date: 16 JUN 2017 08:56:10



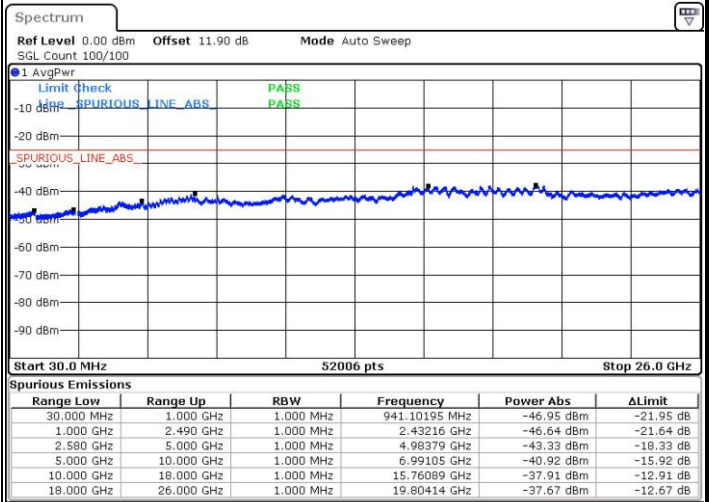
LTE Band 7 / 20MHz

Middle Channel / QPSK



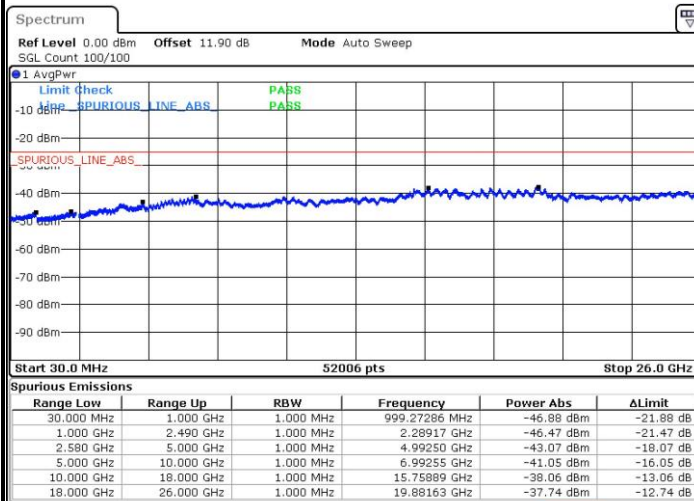
Date: 16 JUN 2017 08:57:45

Middle Channel / 16QAM



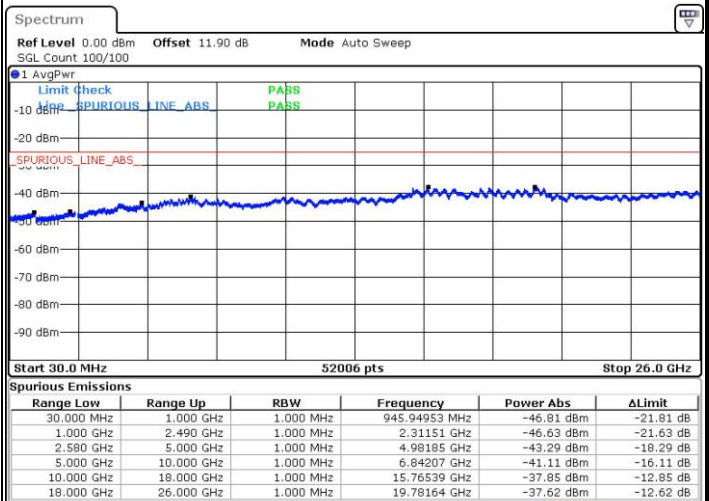
Date: 16 JUN 2017 08:58:39

Highest Channel / QPSK



Date: 16 JUN 2017 09:04:53

Highest Channel / 16QAM

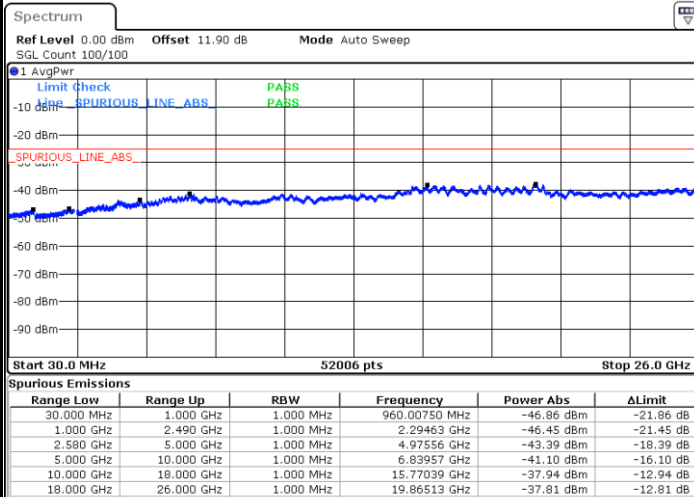


Date: 16 JUN 2017 09:05:47



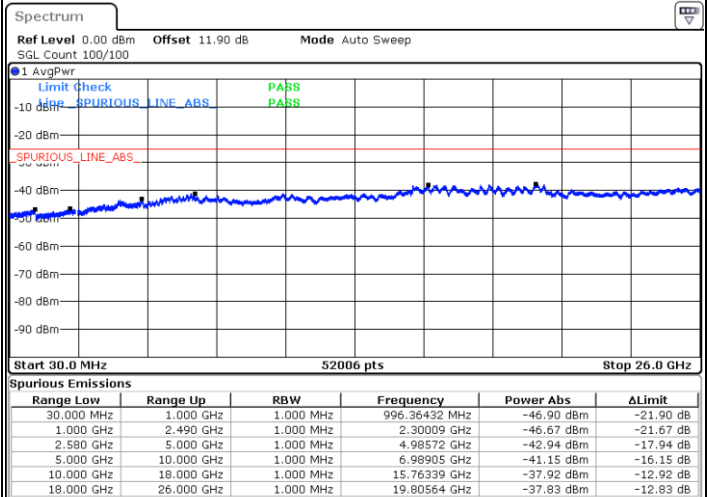
LTE Band 7 / 5MHz

Lowest Channel / 64QAM



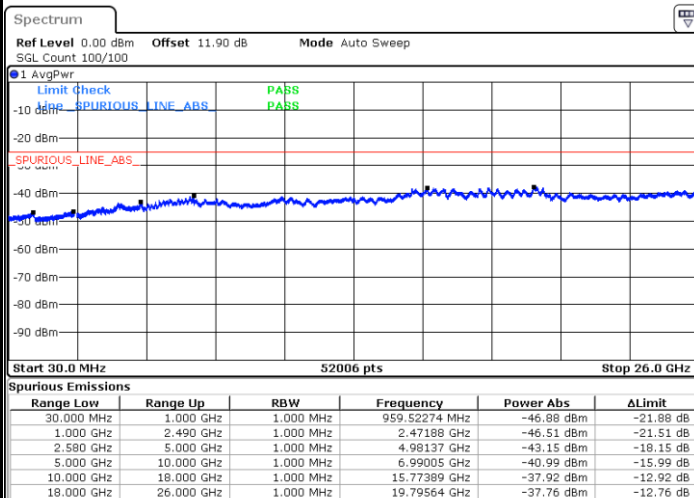
Date: 22 JUN 2017 00:32:32

Middle Channel / 64QAM



Date: 22 JUN 2017 00:33:45

Highest Channel / 64QAM

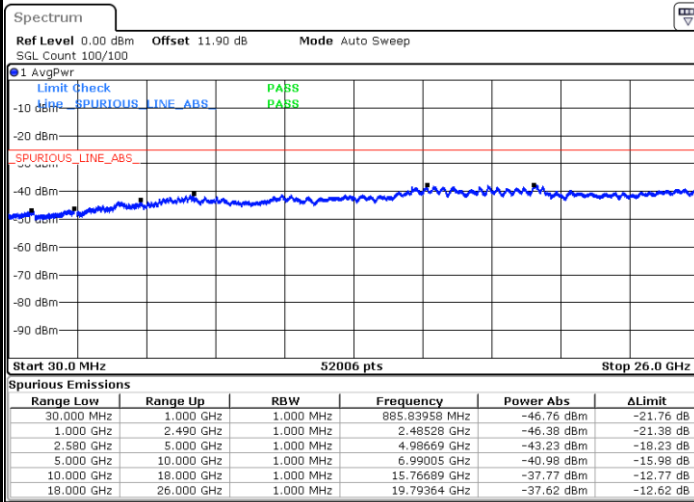


Date: 22 JUN 2017 00:37:17



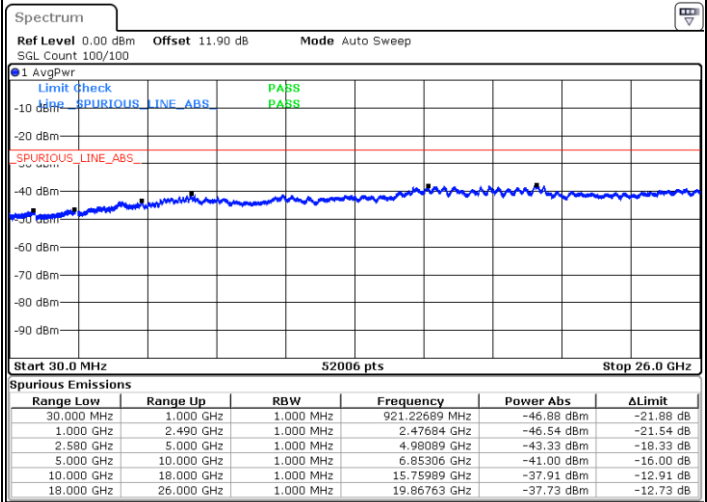
LTE Band 7 / 10MHz

Lowest Channel / 64QAM



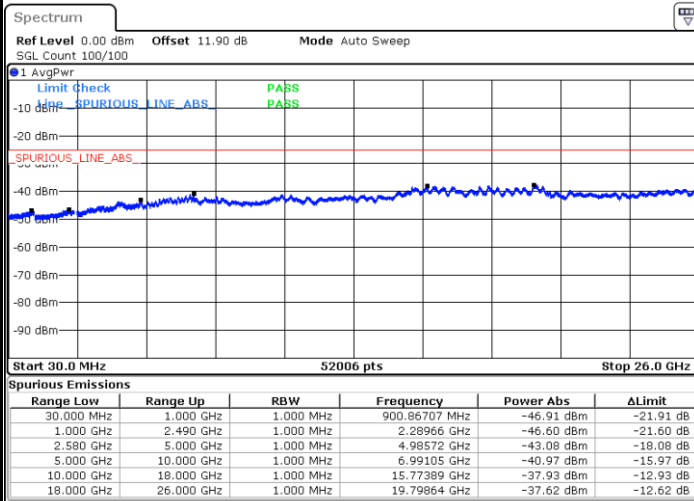
Date: 22 JUN 2017 00:40:49

Middle Channel / 64QAM



Date: 22 JUN 2017 00:42:02

Highest Channel / 64QAM

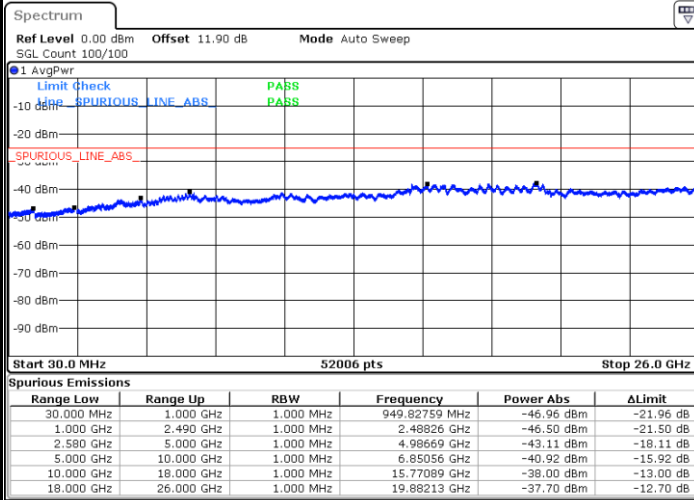


Date: 22 JUN 2017 00:45:34



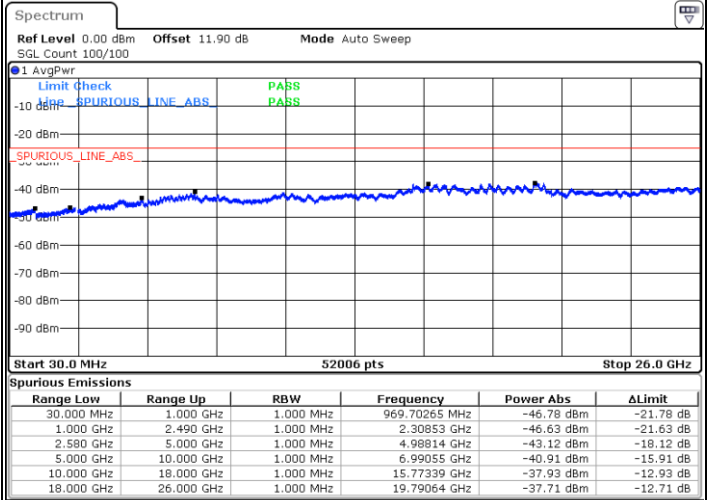
LTE Band 7 / 15MHz

Lowest Channel / 64QAM



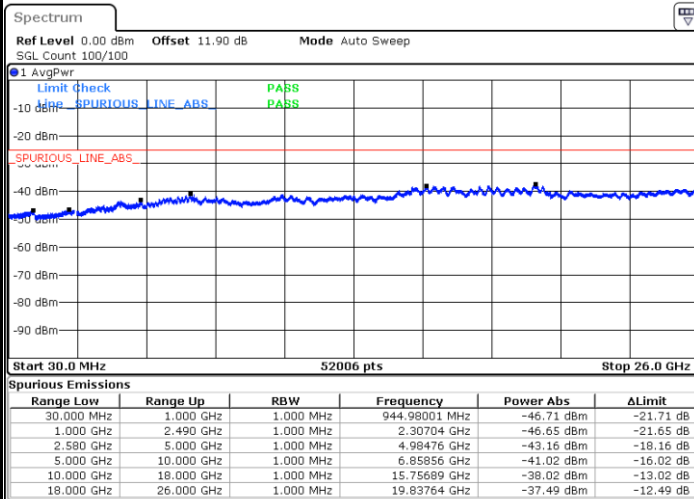
Date: 22 JUN 2017 00:49:06

Middle Channel / 64QAM



Date: 22 JUN 2017 00:50:19

Highest Channel / 64QAM

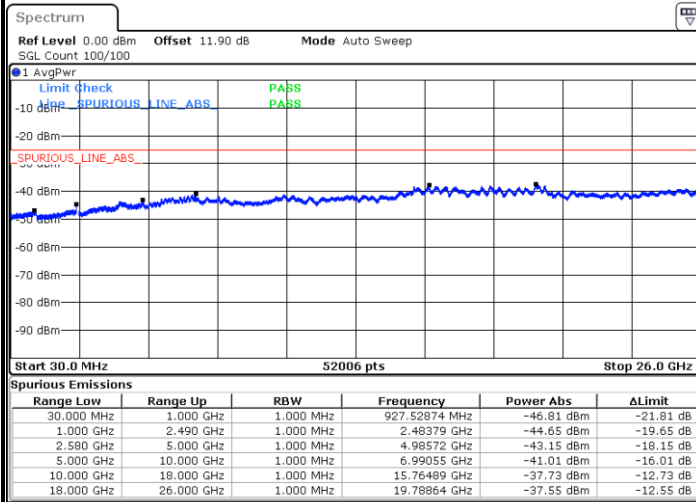


Date: 22 JUN 2017 00:53:52



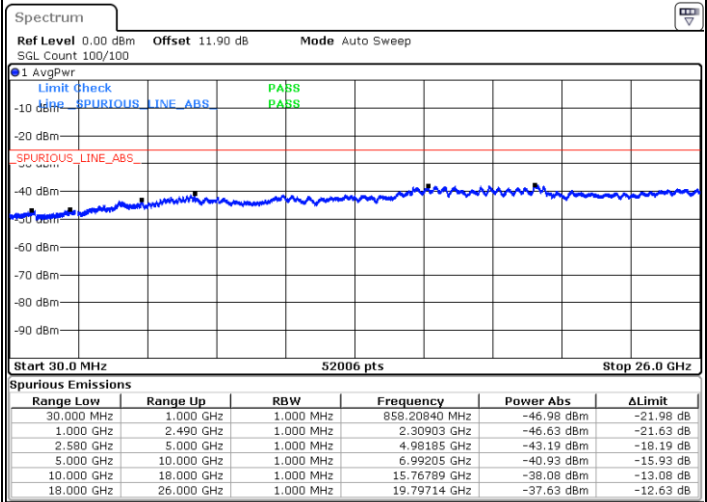
LTE Band 7 / 20MHz

Lowest Channel / 64QAM



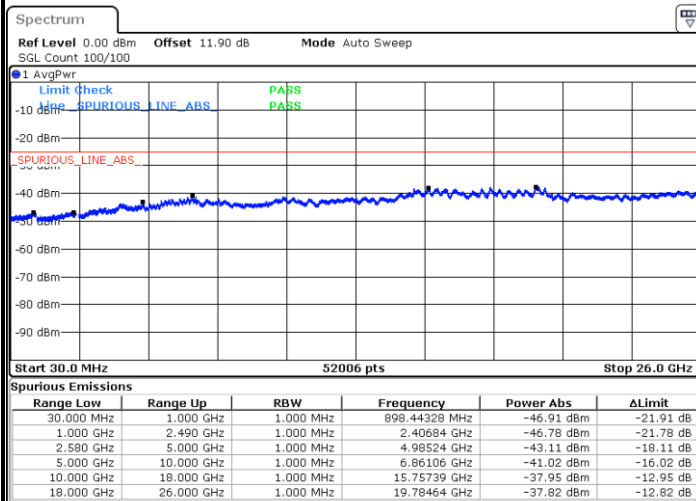
Date: 22 JUN 2017 00:57:23

Middle Channel / 64QAM



Date: 22 JUN 2017 00:58:36

Highest Channel / 64QAM



Date: 22 JUN 2017 01:02:08

Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0011	PASS
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0010	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0002	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0008	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0001	

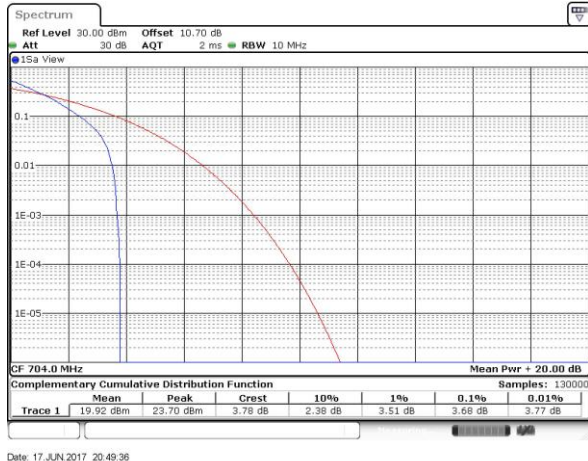
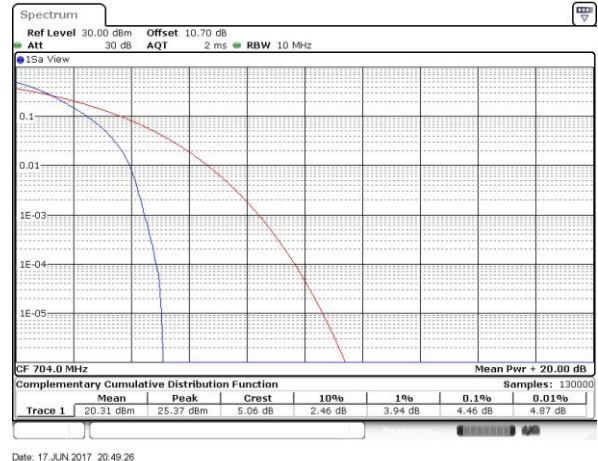
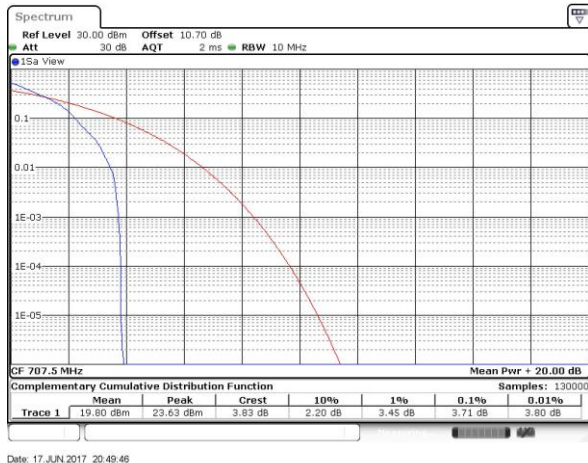
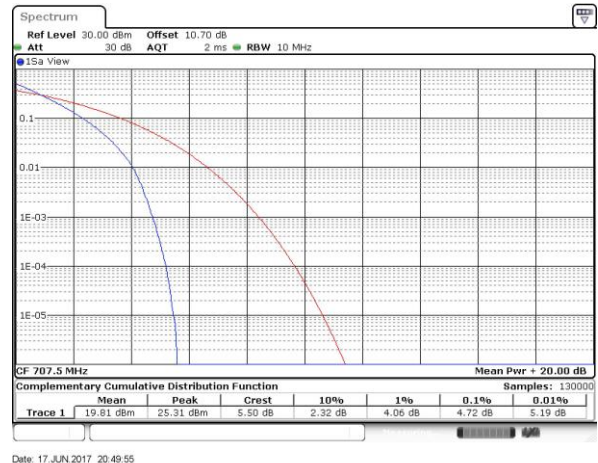
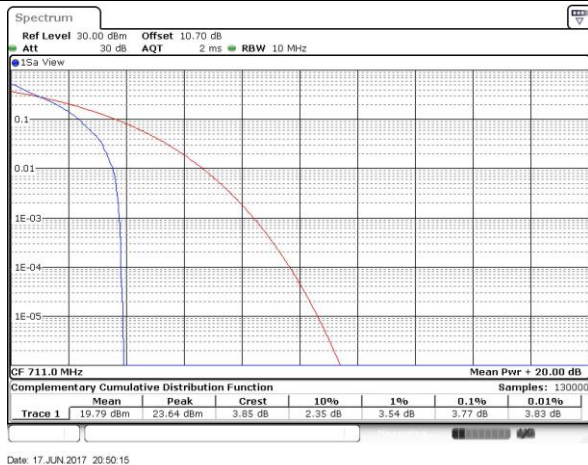
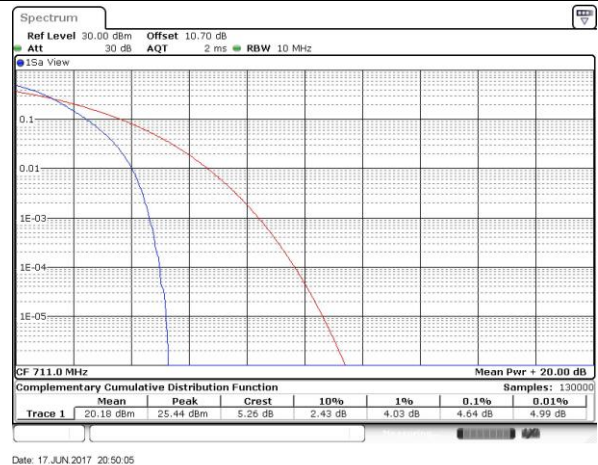
Note:

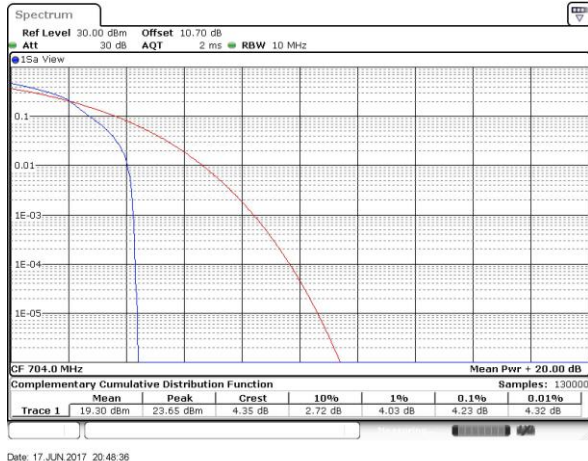
1. Normal Voltage =3.3 V. ; Battery End Point (BEP) =3.1 V. ; Maximum Voltage =3.6 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

LTE Band 12

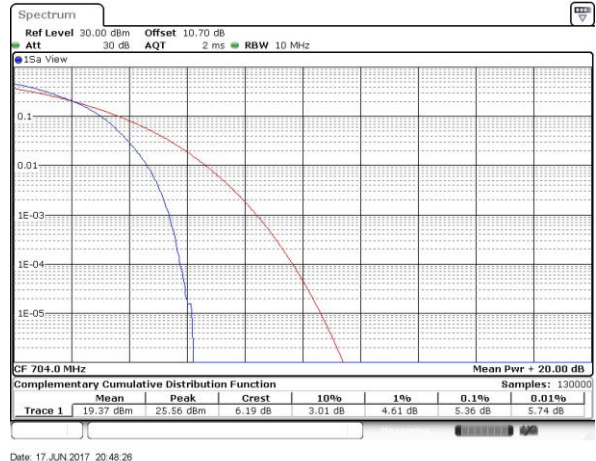
Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.68	4.46	4.23	5.36	PASS
Middle CH	3.71	4.72	4.58	5.48	
Highest CH	3.77	4.64	4.9	5.54	
Mode	LTE Band 12 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.54	5.97			PASS
Middle CH	5.65	6.14			
Highest CH	5.54	6.06			

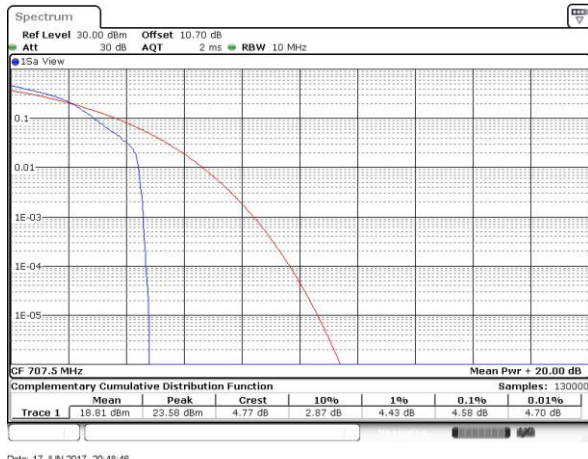
LTE Band 12 / 10MHz / QPSK
Lowest Channel / 1RB

Lowest Channel / Full RB

Middle Channel / 1RB

Middle Channel / Full RB

Highest Channel / 1RB

Highest Channel / Full RB


LTE Band 12 / 10MHz / 16QAM
Lowest Channel / 1RB


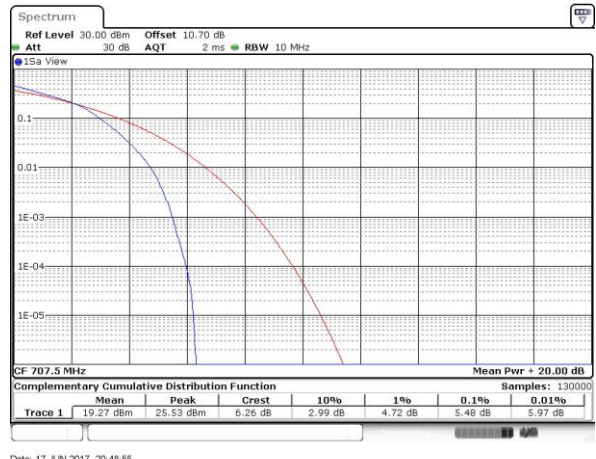
Date: 17 JUN 2017 20:48:36

Lowest Channel / Full RB


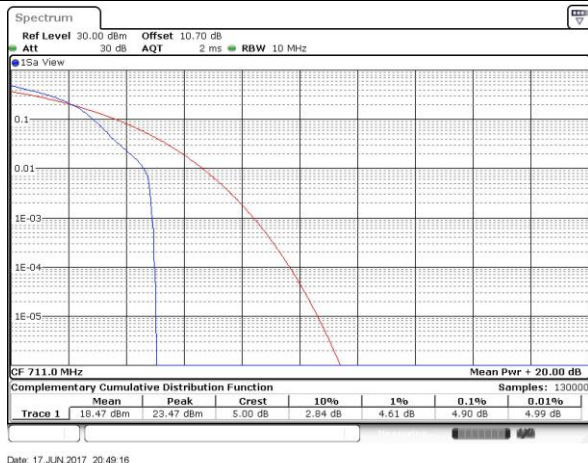
Date: 17 JUN 2017 20:48:26

Middle Channel / 1RB


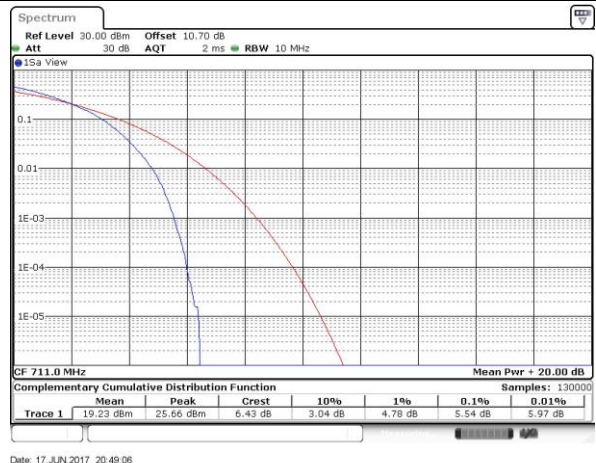
Date: 17 JUN 2017 20:48:46

Middle Channel / Full RB


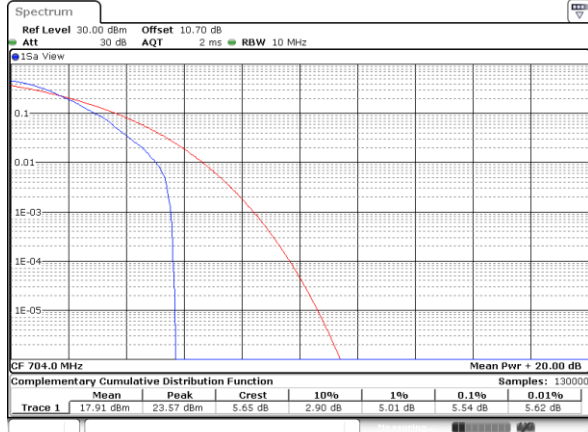
Date: 17 JUN 2017 20:48:55

Highest Channel / 1RB


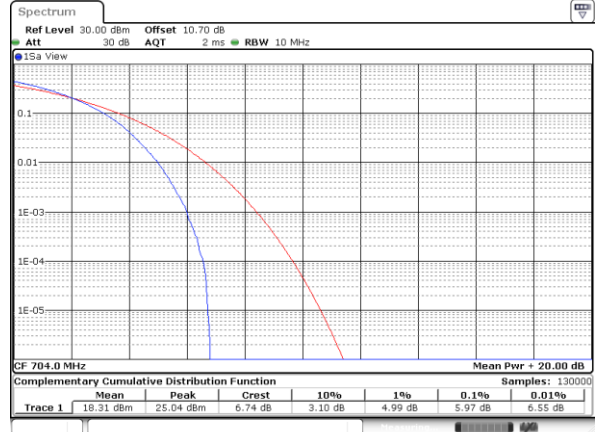
Date: 17 JUN 2017 20:49:16

Highest Channel / Full RB


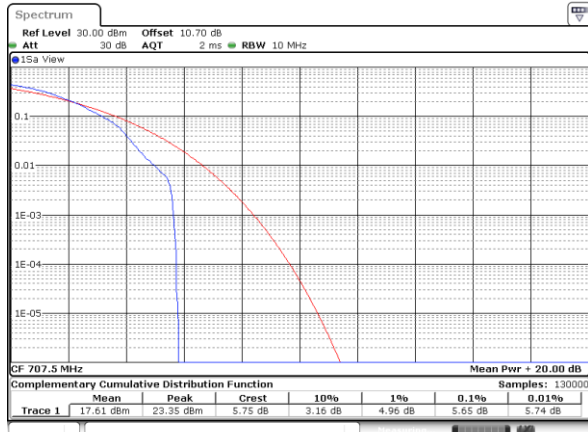
Date: 17 JUN 2017 20:49:06

LTE Band 12 / 10MHz / 64QAM
Lowest Channel / 1RB


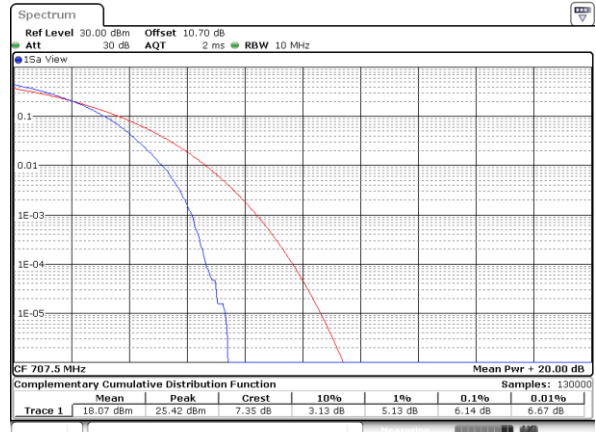
Date: 21 JUN 2017 23:30:59

Lowest Channel / Full RB


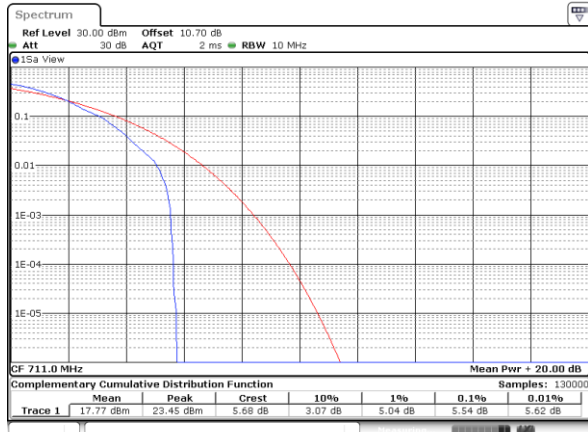
Date: 21 JUN 2017 23:30:50

Middle Channel / 1RB


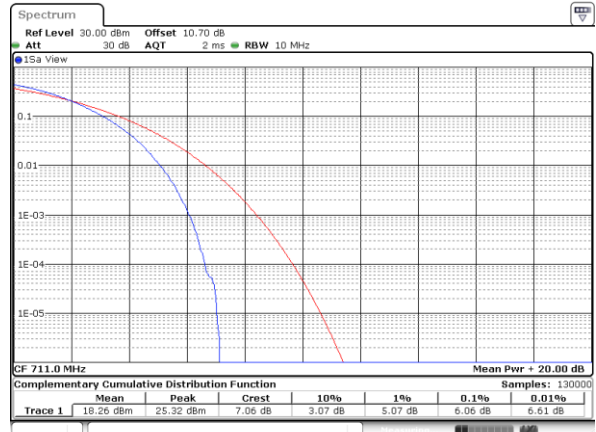
Date: 21 JUN 2017 23:31:28

Middle Channel / Full RB


Date: 21 JUN 2017 23:31:36

Highest Channel / 1RB


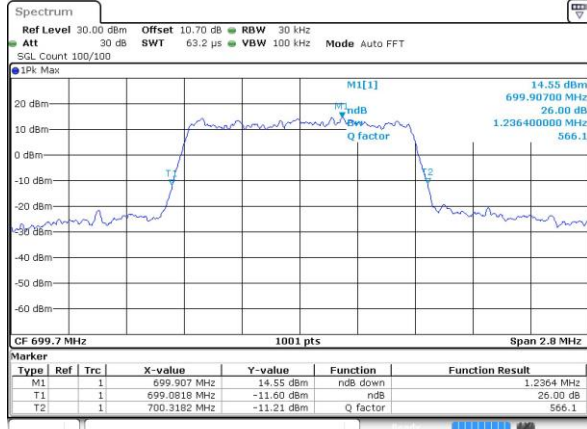
Date: 21 JUN 2017 23:31:56

Highest Channel / Full RB


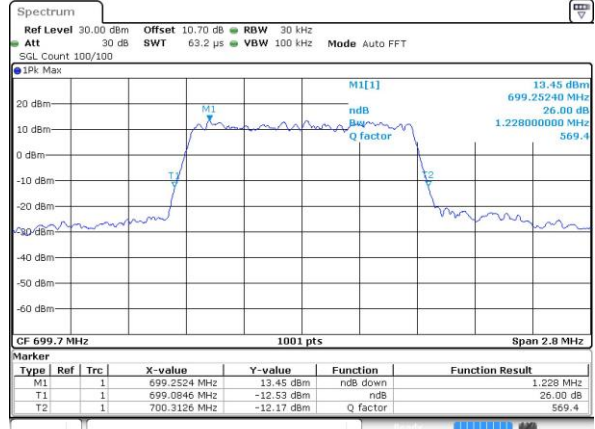
Date: 21 JUN 2017 23:31:46

**26dB Bandwidth**

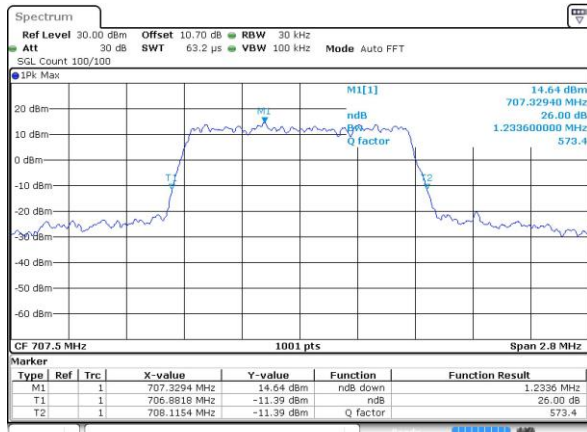
Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.24	1.23	3.00	3.03	4.88	4.89	9.73	9.77	-	-	-	-
Middle CH	1.23	1.24	3.03	3.02	4.93	4.88	9.83	9.83	-	-	-	-
Highest CH	1.25	1.22	3.03	3.03	4.91	4.87	9.89	9.75	-	-	-	-
Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.22	-	2.95	-	4.94	-	9.85	-	-	-	-	-
Middle CH	1.23	-	2.99	-	4.95	-	9.95	-	-	-	-	-
Highest CH	1.23	-	2.99	-	4.89	-	9.65	-	-	-	-	-

LTE Band 12
Lowest Channel / 1.4MHz / QPSK


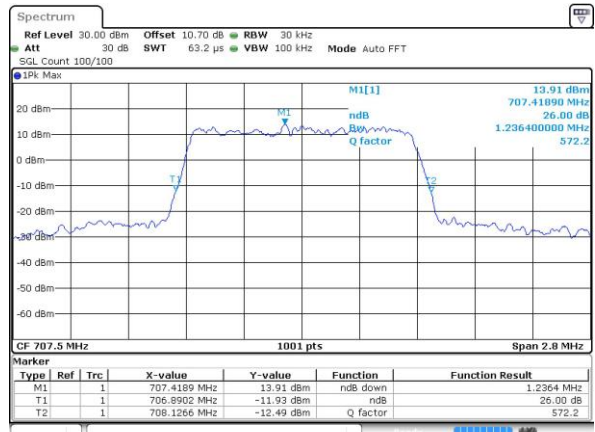
Date: 17 JUN 2017 20:28:40

Lowest Channel / 1.4MHz / 16QAM


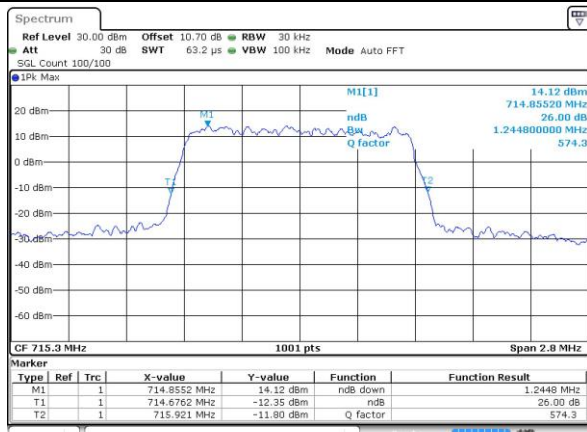
Date: 17 JUN 2017 20:26:16

Middle Channel / 1.4MHz / QPSK


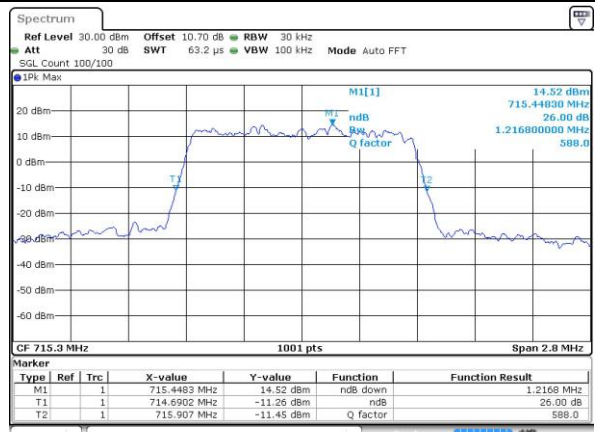
Date: 17 JUN 2017 20:33:36

Middle Channel / 1.4MHz / 16QAM


Date: 17 JUN 2017 20:33:46

Highest Channel / 1.4MHz / QPSK


Date: 17 JUN 2017 20:36:16

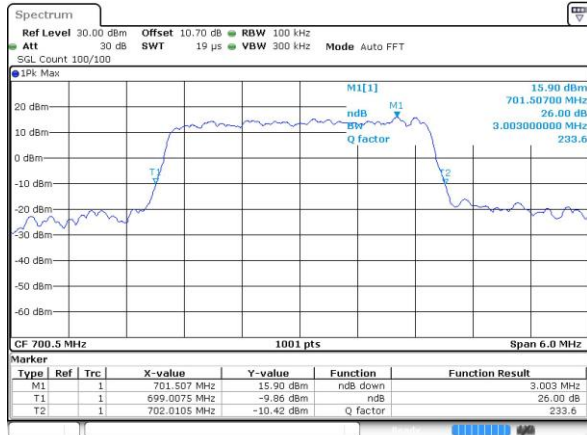
Highest Channel / 1.4MHz / 16QAM


Date: 17 JUN 2017 20:36:06

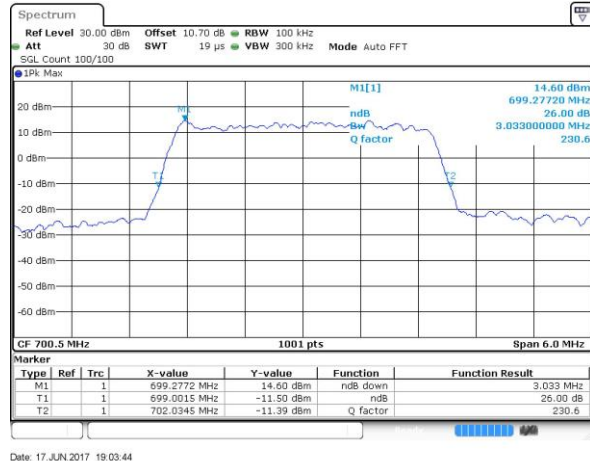


LTE Band 12

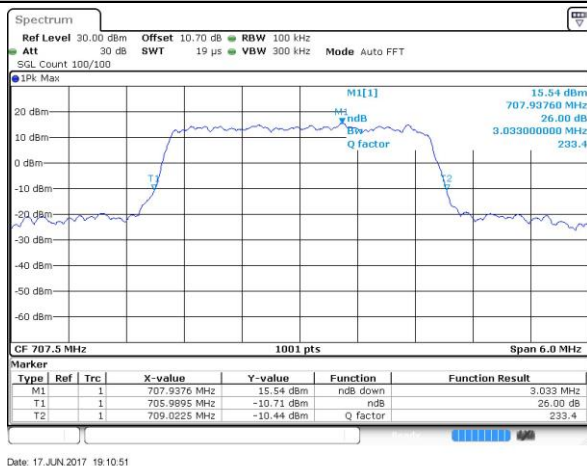
Lowest Channel / 3MHz / QPSK



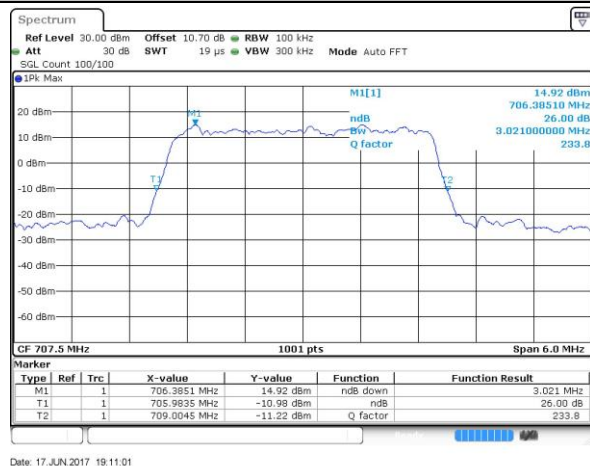
Lowest Channel / 3MHz / 16QAM



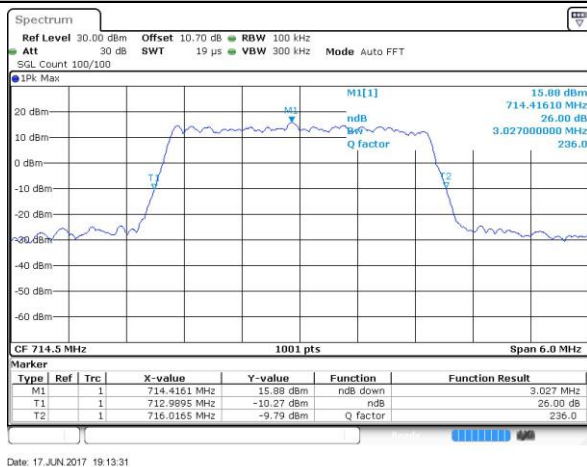
Middle Channel / 3MHz / QPSK



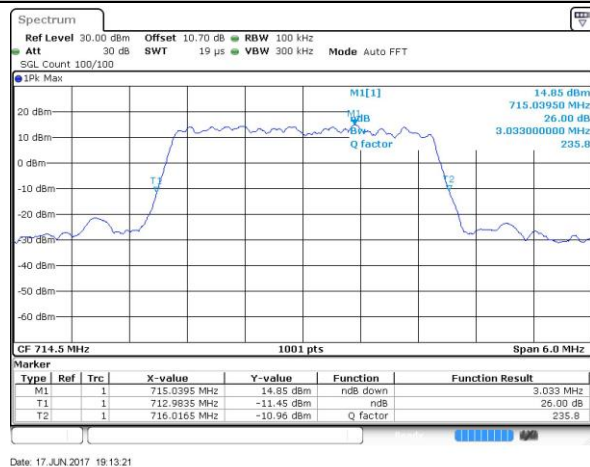
Middle Channel / 3MHz / 16QAM

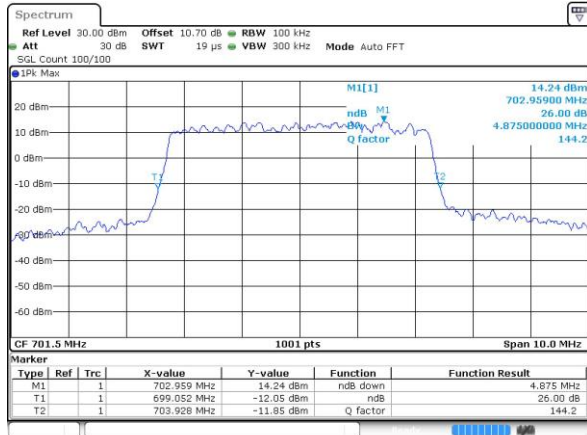
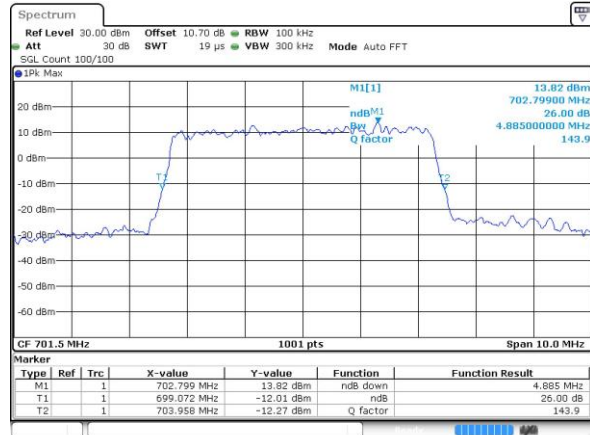
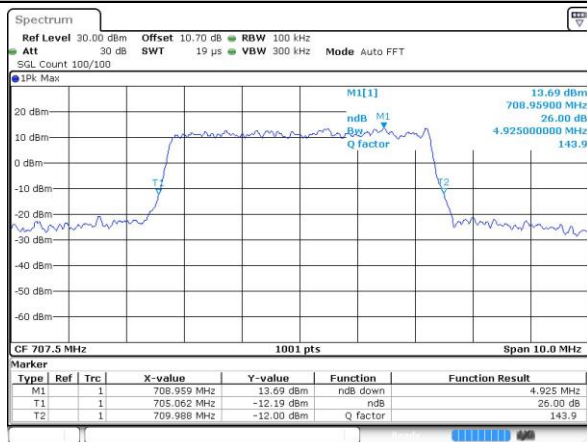
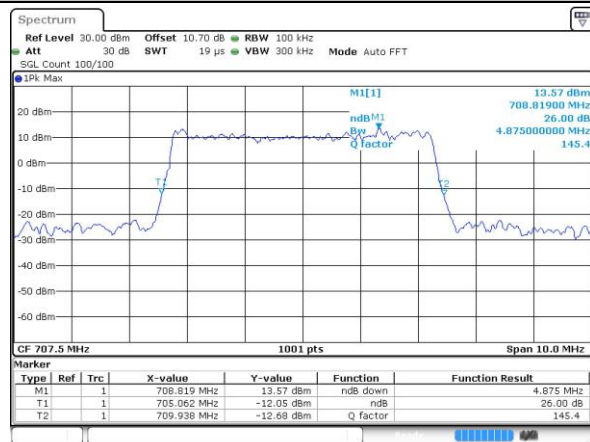
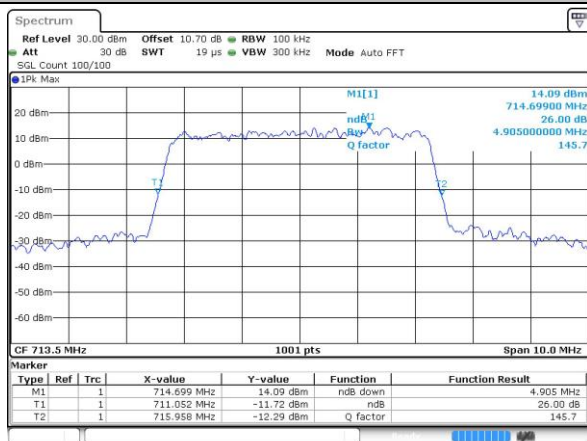
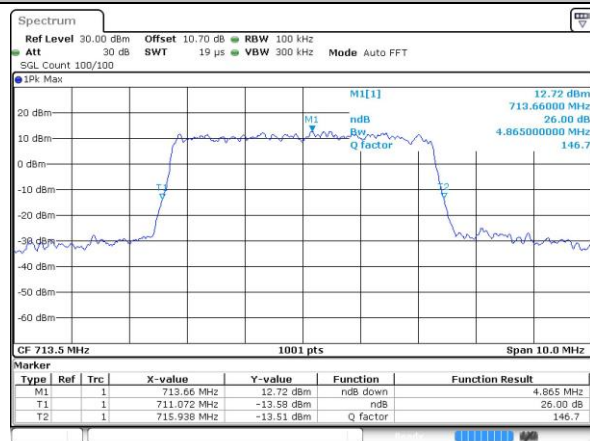


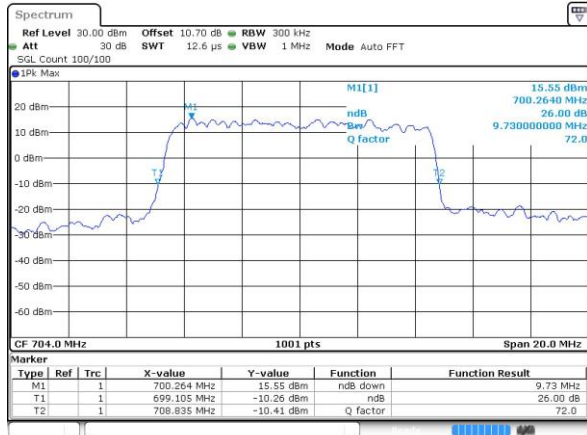
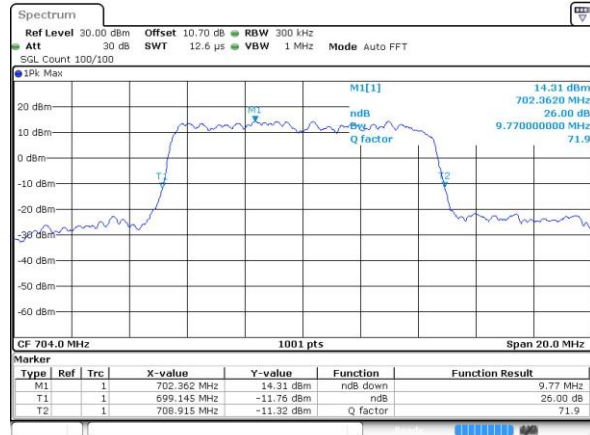
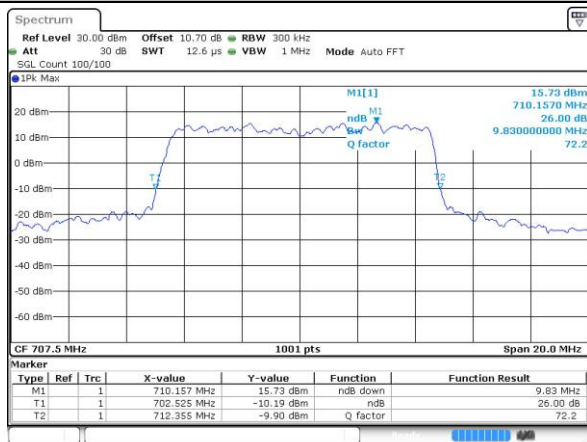
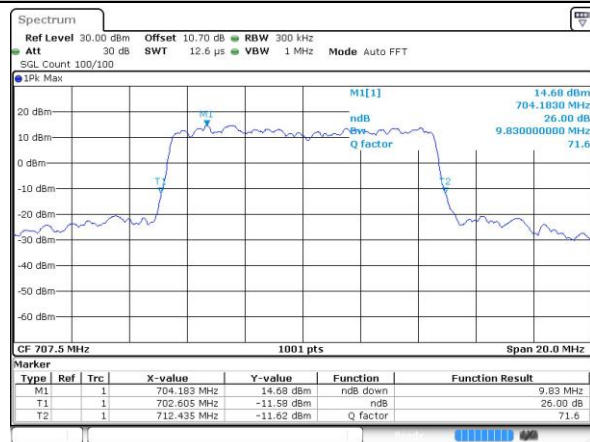
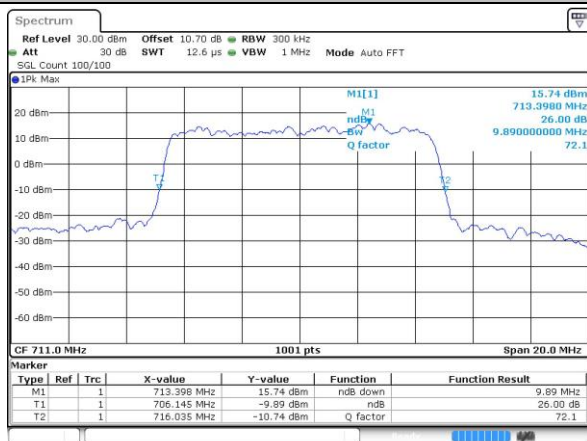
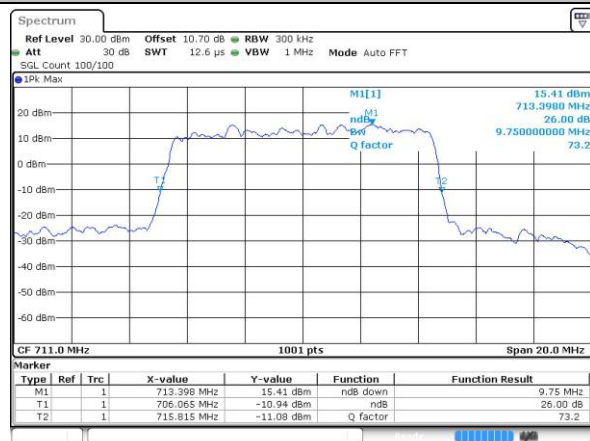
Highest Channel / 3MHz / QPSK

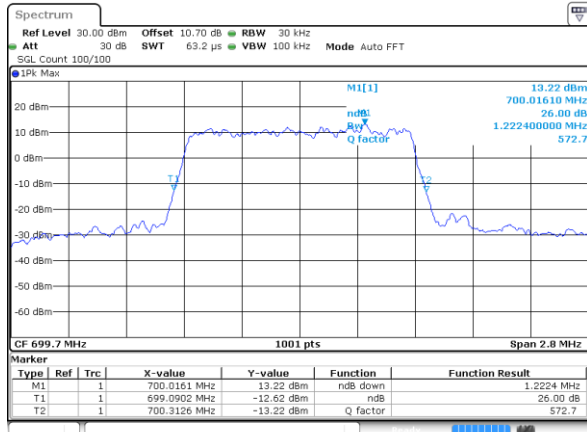


Highest Channel / 3MHz / 16QAM

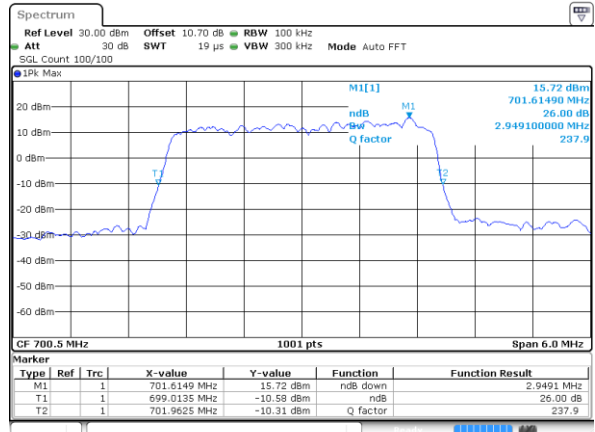


LTE Band 12
Lowest Channel / 5MHz / QPSK

Lowest Channel / 5MHz / 16QAM

Middle Channel / 5MHz / QPSK

Middle Channel / 5MHz / 16QAM

Highest Channel / 5MHz / QPSK

Highest Channel / 5MHz / 16QAM


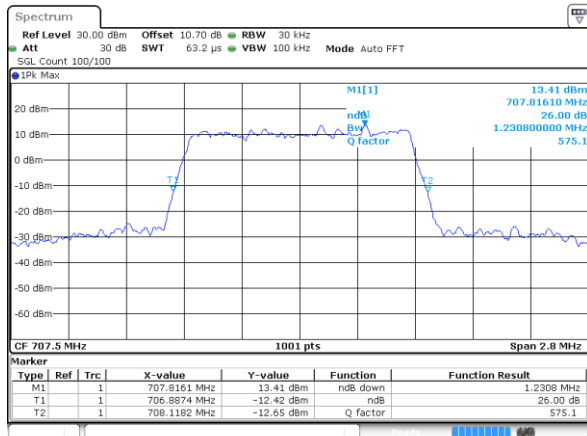
LTE Band 12
Lowest Channel / 10MHz / QPSK

Lowest Channel / 10MHz / 16QAM

Middle Channel / 10MHz / QPSK

Middle Channel / 10MHz / 16QAM

Highest Channel / 10MHz / QPSK

Highest Channel / 10MHz / 16QAM


LTE Band 12
Lowest Channel / 1.4MHz / 64QAM


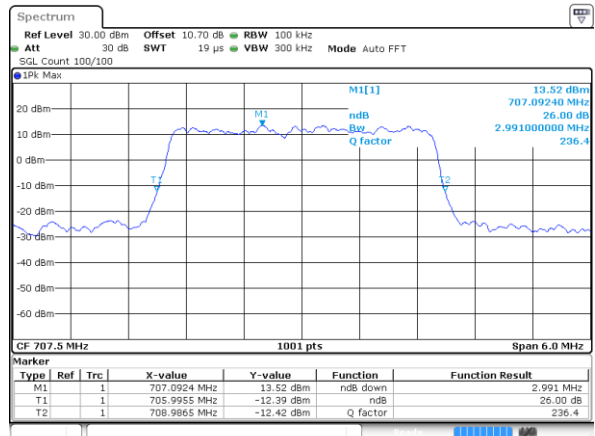
Date: 21 JUN 2017 23:20:23

Lowest Channel / 3MHz / 64QAM


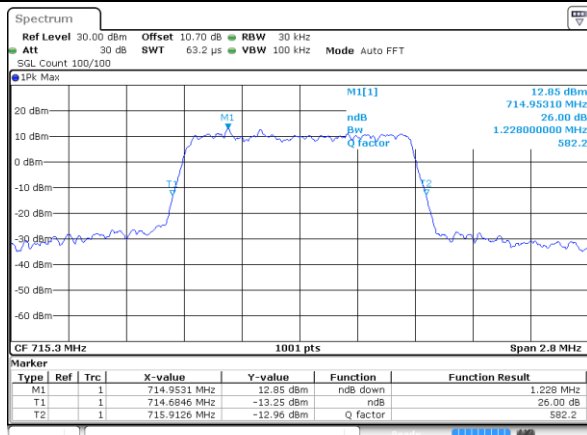
Date: 21 JUN 2017 22:55:34

Middle Channel / 1.4MHz / 64QAM


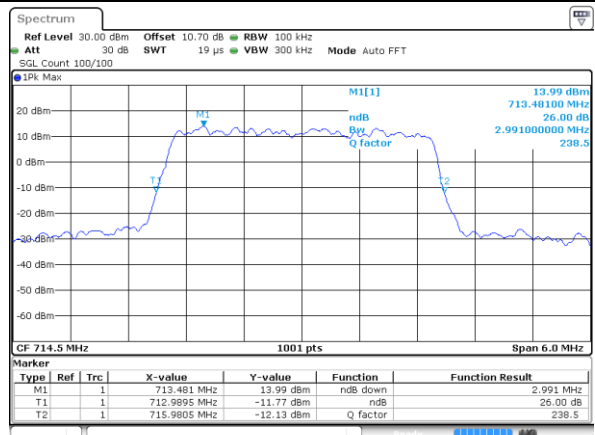
Date: 21 JUN 2017 23:23:55

Middle Channel / 3MHz / 64QAM


Date: 21 JUN 2017 22:59:05

Highest Channel / 1.4MHz / 64QAM


Date: 21 JUN 2017 23:25:08

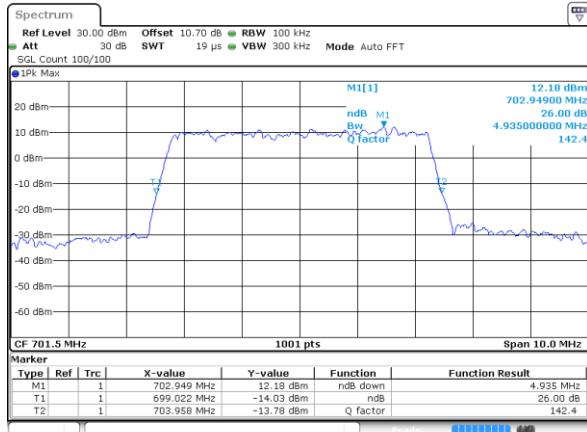
Highest Channel / 3MHz / 64QAM


Date: 21 JUN 2017 23:00:19

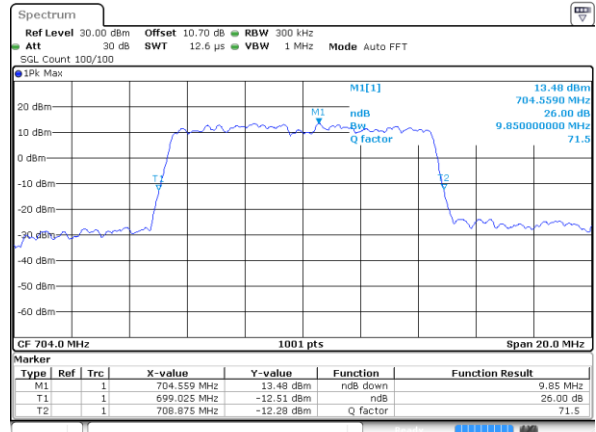


LTE Band 12

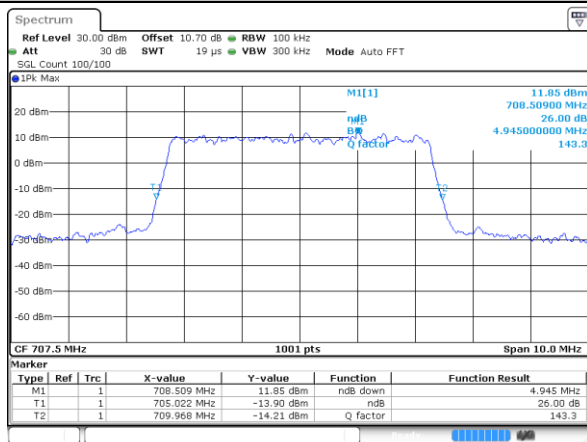
Lowest Channel / 5MHz / 64QAM



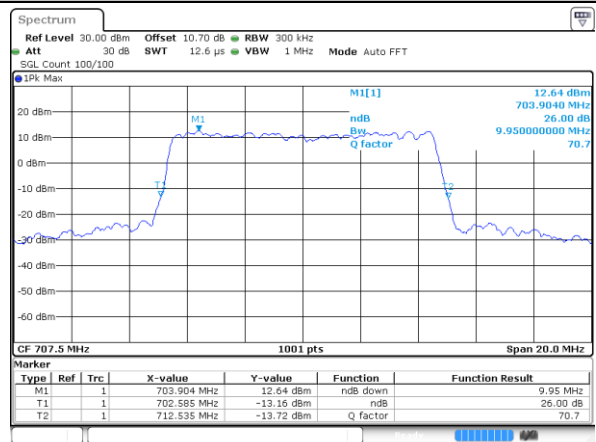
Lowest Channel / 10MHz / 64QAM



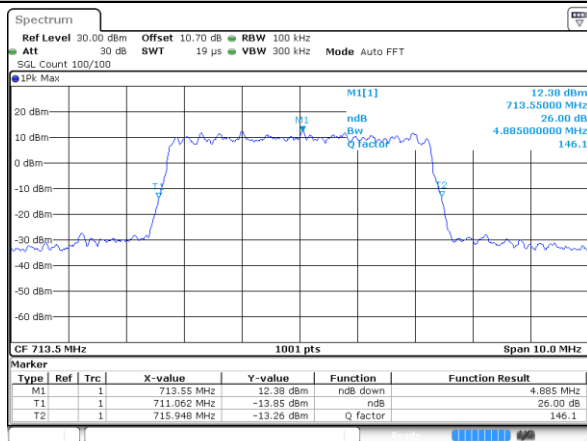
Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



Highest Channel / 10MHz / 64QAM

