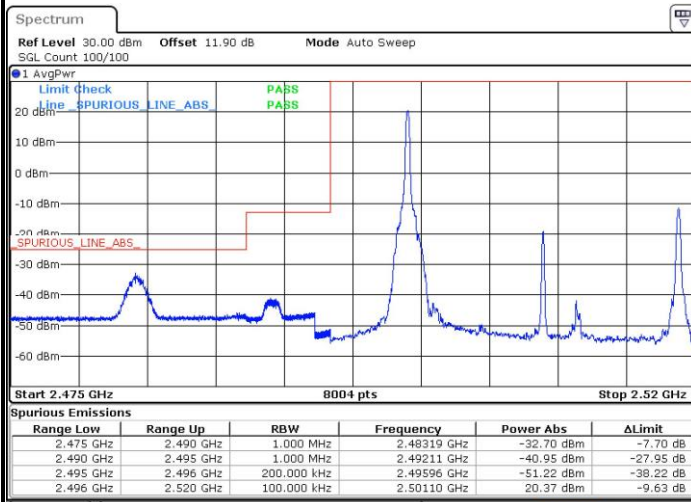


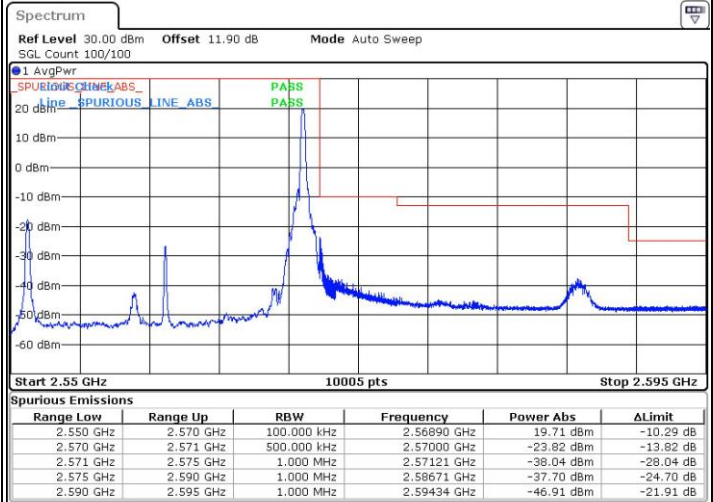


LTE Band 7 / 20MHz / QPSK

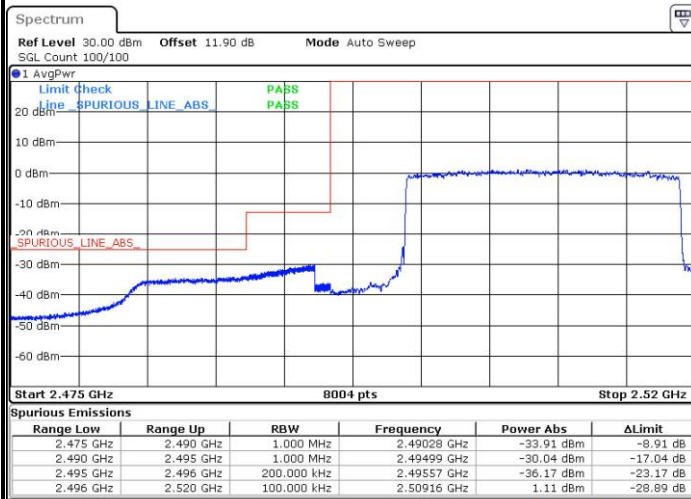
Lowest Band Edge / 1 RB



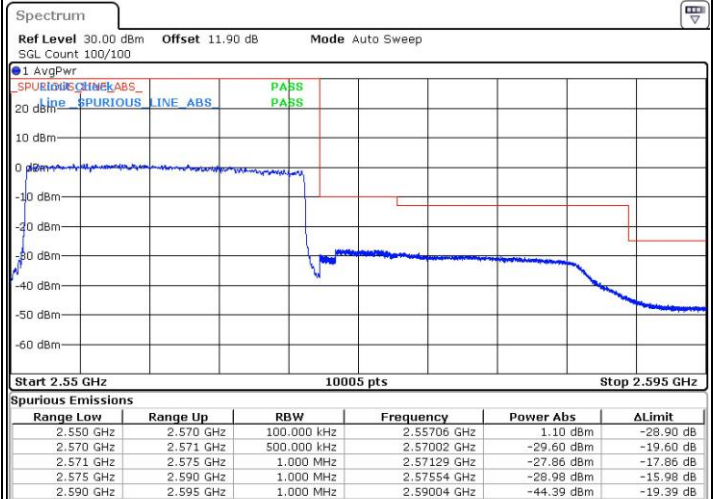
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



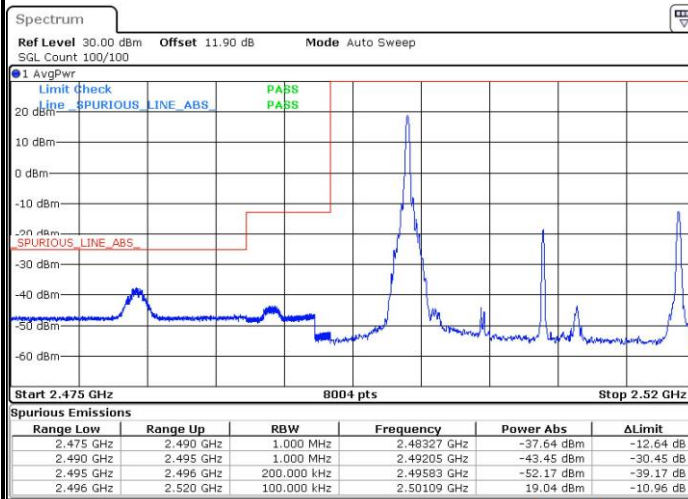
Highest Band Edge / Full RB



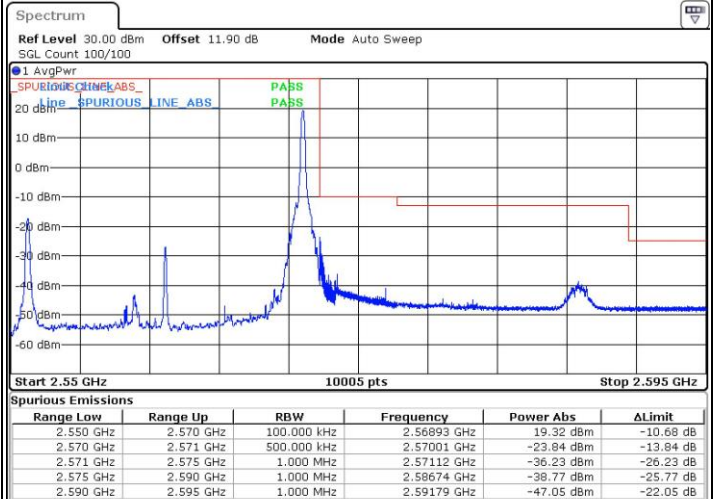


LTE Band 7 / 20MHz / 16QAM

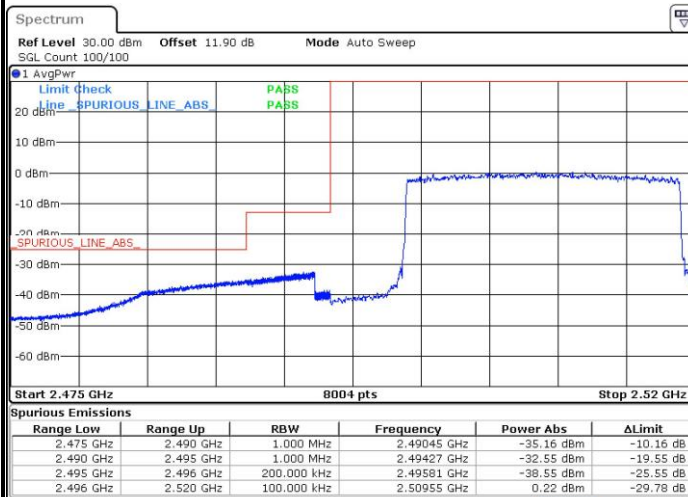
Lowest Band Edge / 1 RB



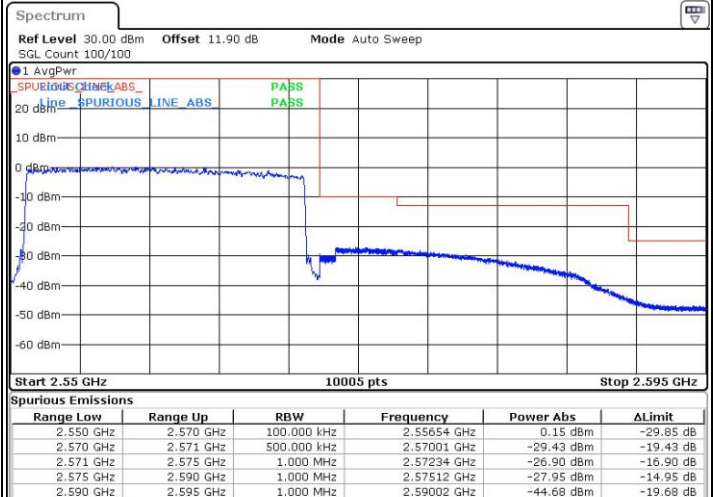
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB



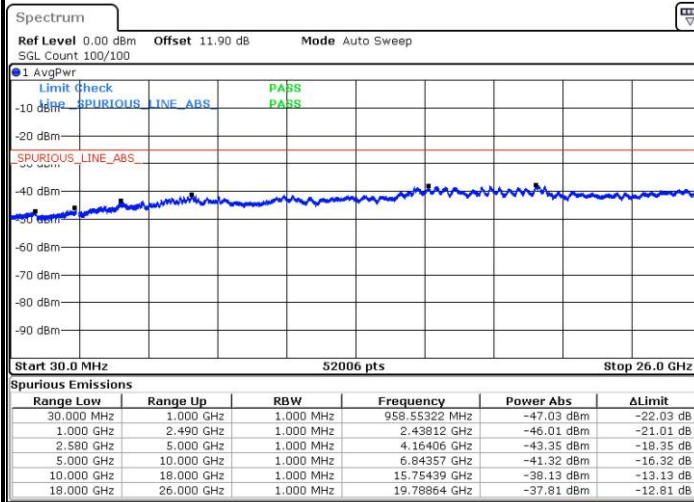


Conducted Spurious Emission



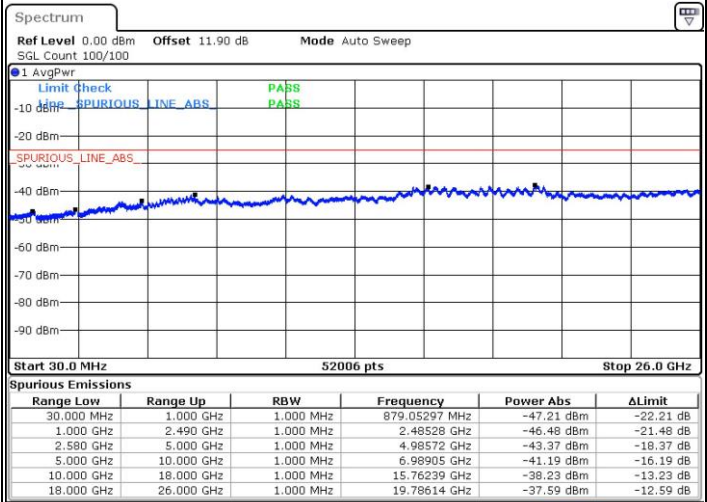
LTE Band 7 / 5MHz

Lowest Channel / QPSK



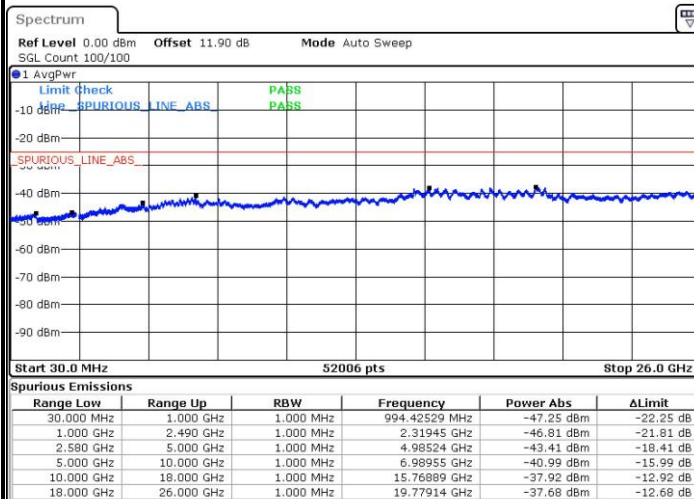
Date: 8 FEB 2017 09:47:03

Lowest Channel / 16QAM



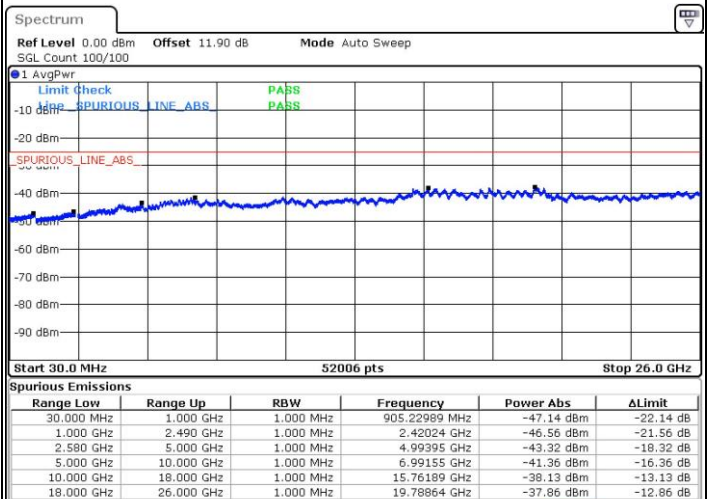
Date: 8 FEB 2017 09:47:56

Middle Channel / QPSK



Date: 8 FEB 2017 09:49:31

Middle Channel / 16QAM

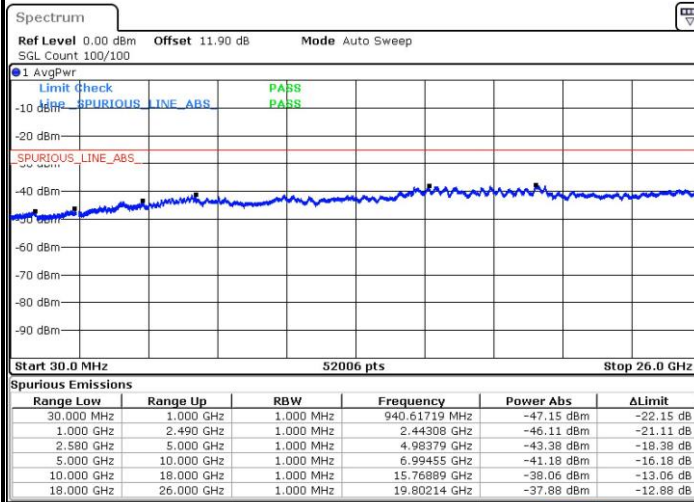


Date: 8 FEB 2017 09:50:25



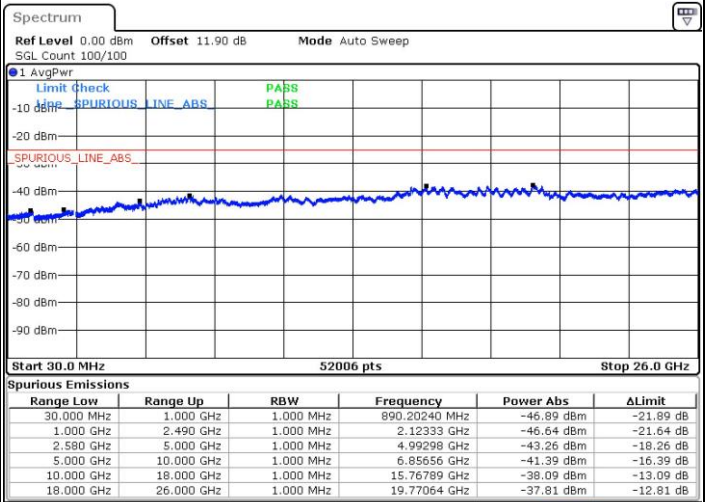
LTE Band 7 / 5MHz

Highest Channel / QPSK



Date: 8 FEB 2017 09:56:39

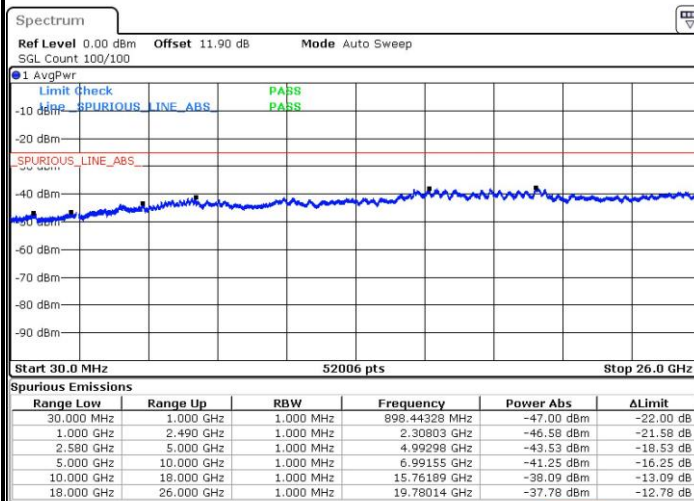
Highest Channel / 16QAM



Date: 8 FEB 2017 09:57:33

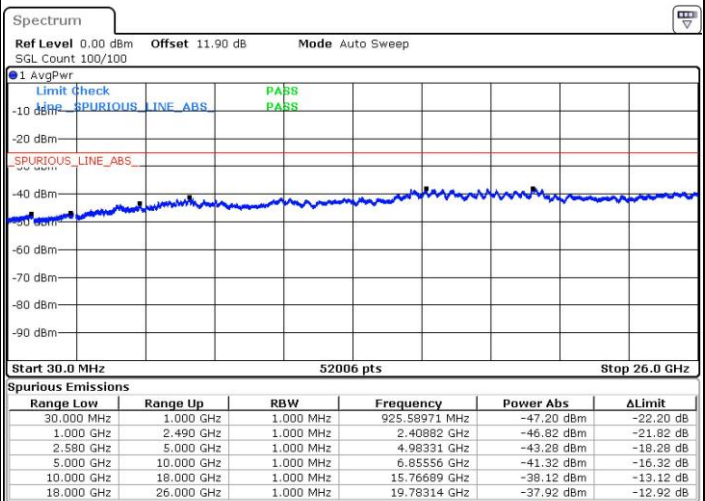
LTE Band 7 / 10MHz

Lowest Channel / QPSK



Date: 8 FEB 2017 10:10:04

Lowest Channel / 16QAM

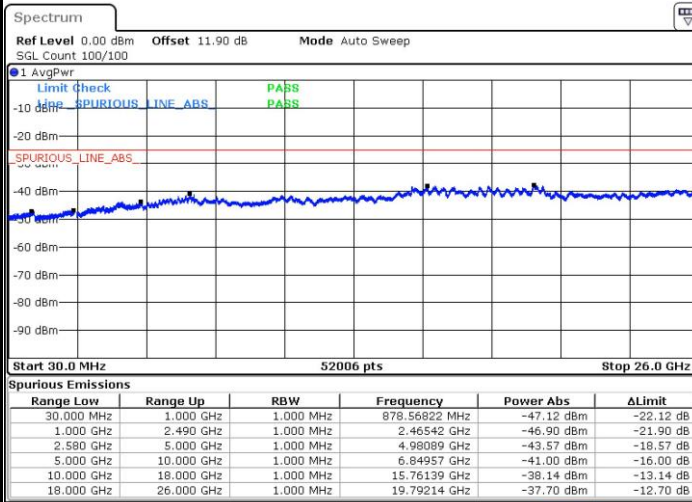


Date: 8 FEB 2017 10:10:57



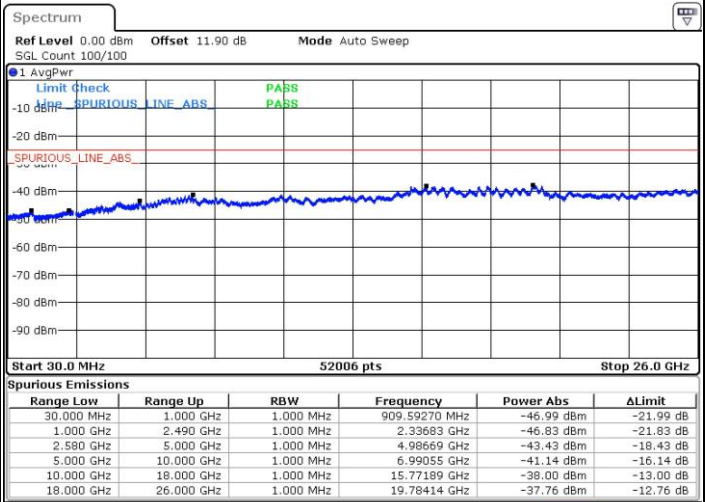
LTE Band 7 / 10MHz

Middle Channel / QPSK



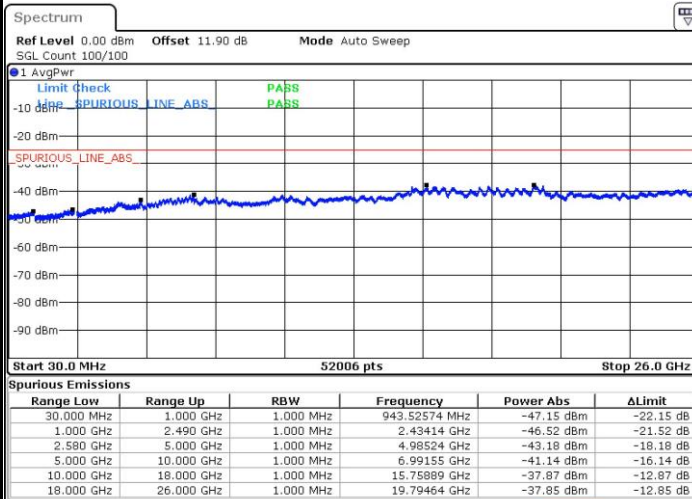
Date: 8 FEB 2017 10:12:33

Middle Channel / 16QAM



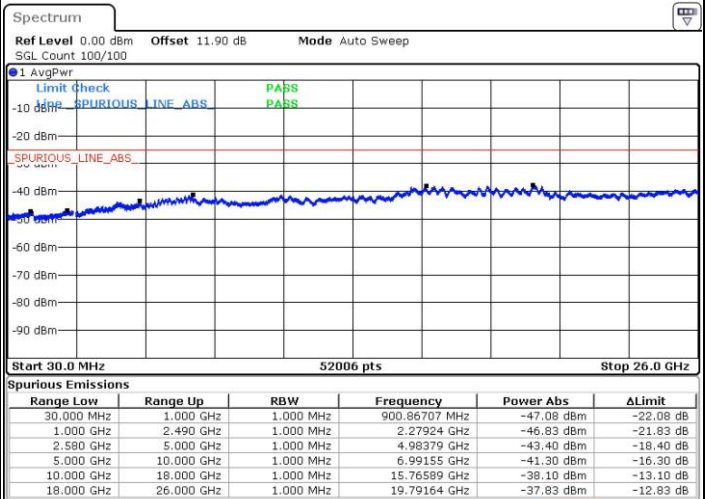
Date: 8 FEB 2017 10:13:26

Highest Channel / QPSK



Date: 8 FEB 2017 10:19:41

Highest Channel / 16QAM

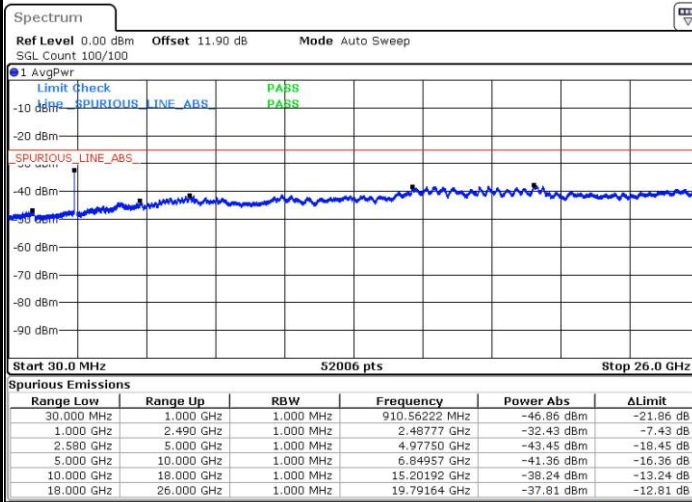


Date: 8 FEB 2017 10:20:35



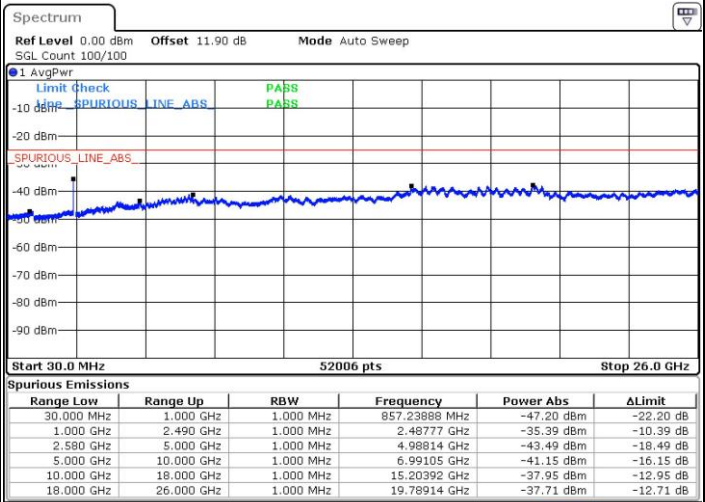
LTE Band 7 / 15MHz

Lowest Channel / QPSK



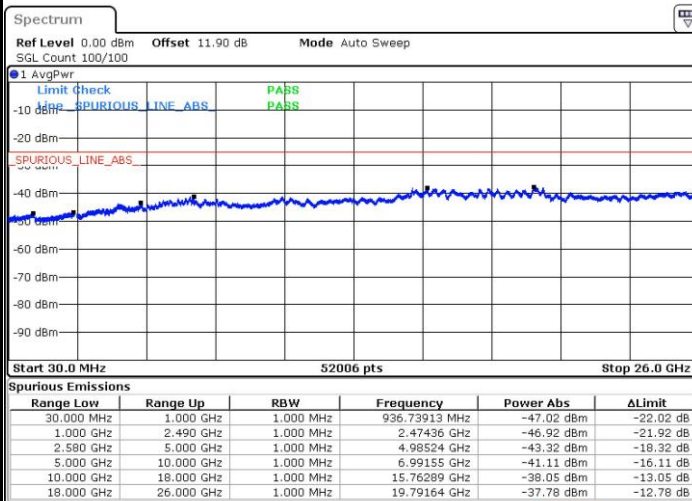
Date: 8 FEB 2017 10:26:49

Lowest Channel / 16QAM



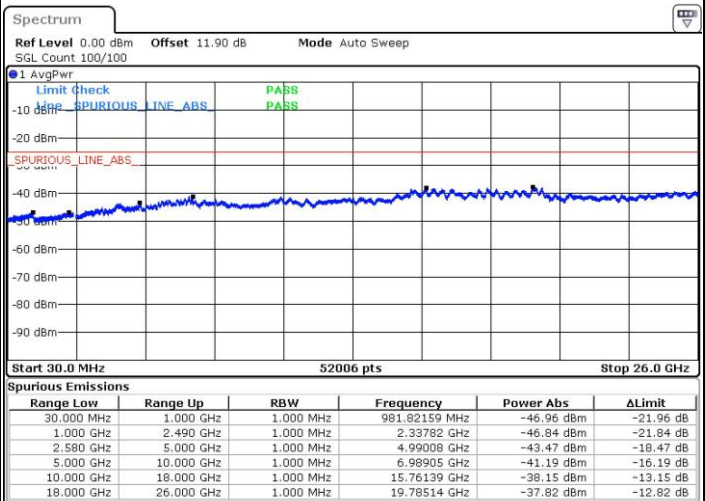
Date: 8 FEB 2017 10:27:43

Middle Channel / QPSK



Date: 8 FEB 2017 10:29:19

Middle Channel / 16QAM

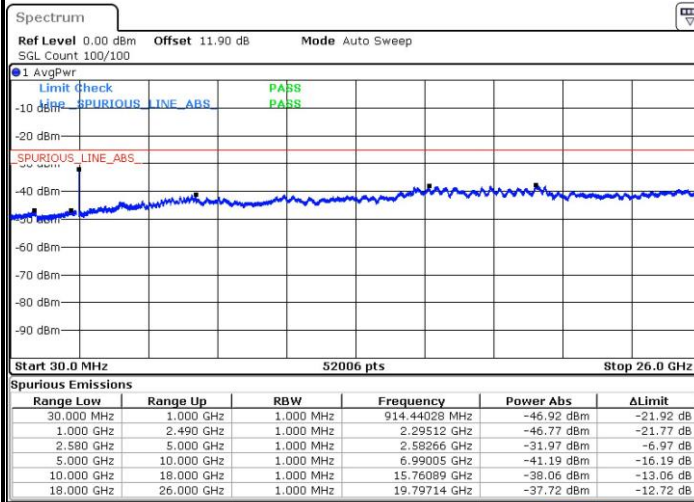


Date: 8 FEB 2017 10:30:12



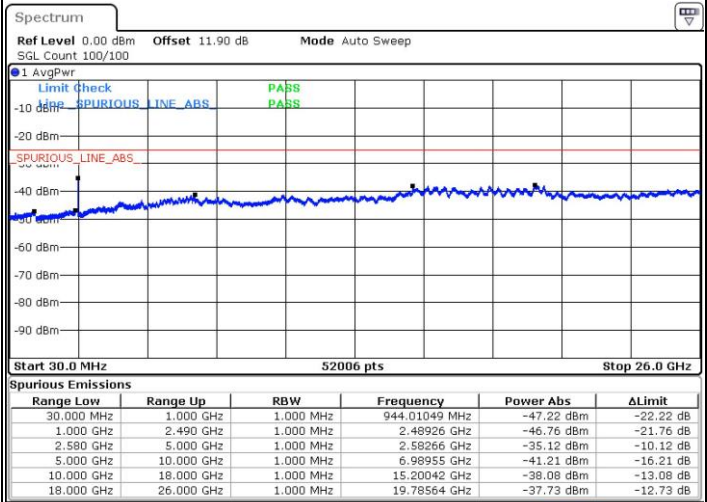
LTE Band 7 / 15MHz

Highest Channel / QPSK



Date: 8 FEB 2017 10:36:27

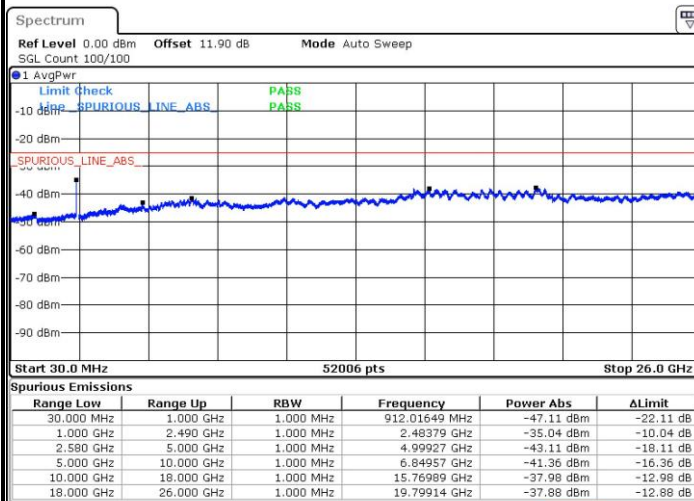
Highest Channel / 16QAM



Date: 8 FEB 2017 10:37:21

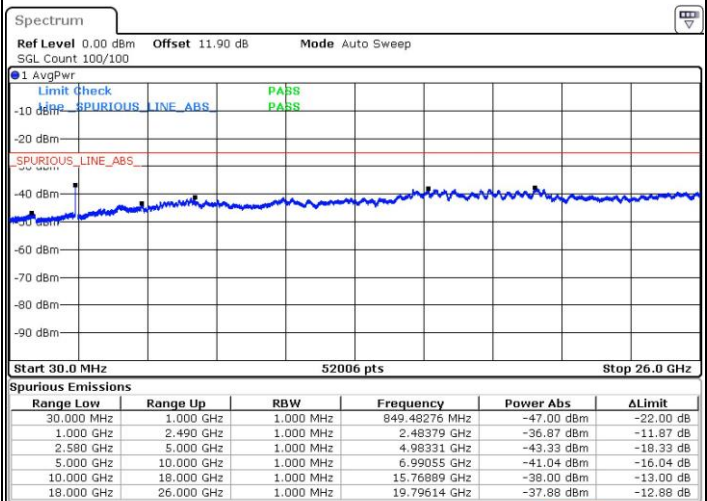
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 8 FEB 2017 10:43:35

Lowest Channel / 16QAM

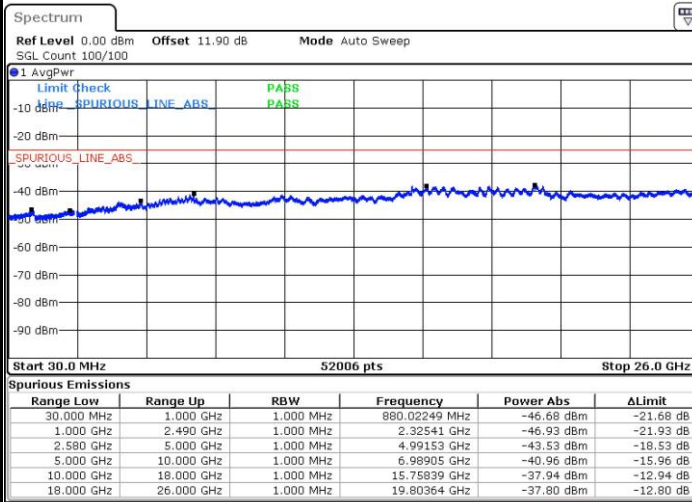


Date: 8 FEB 2017 10:44:29



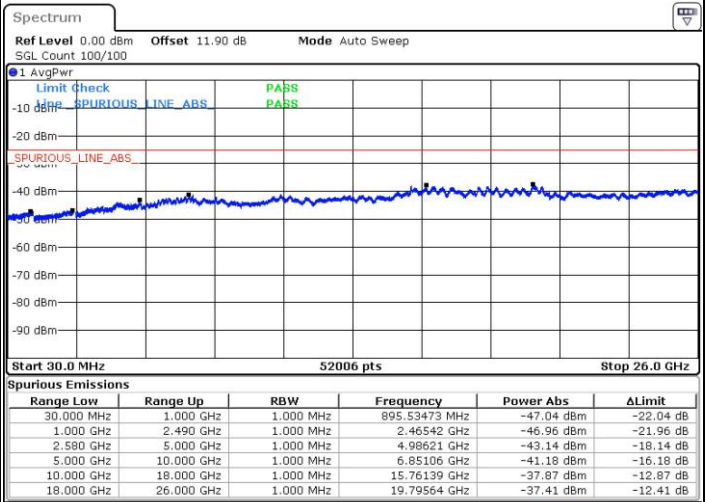
LTE Band 7 / 20MHz

Middle Channel / QPSK



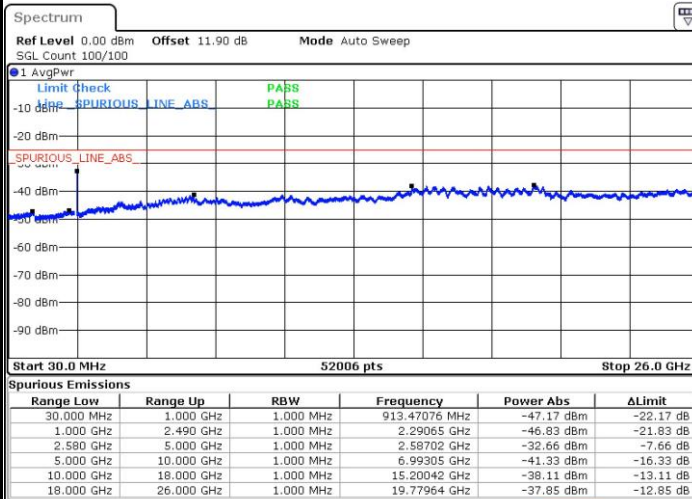
Date: 8 FEB 2017 10:46:04

Middle Channel / 16QAM



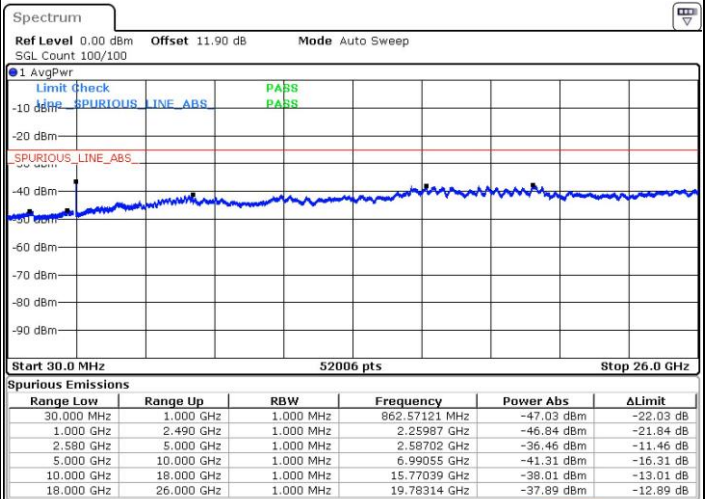
Date: 8 FEB 2017 10:46:58

Highest Channel / QPSK



Date: 8 FEB 2017 10:53:13

Highest Channel / 16QAM



Date: 8 FEB 2017 10:54:06

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	0.0005	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0051	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0009	
0	Normal Voltage	0.0001	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0009	
20	Maximum Voltage	0.0047	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0010	

Note:

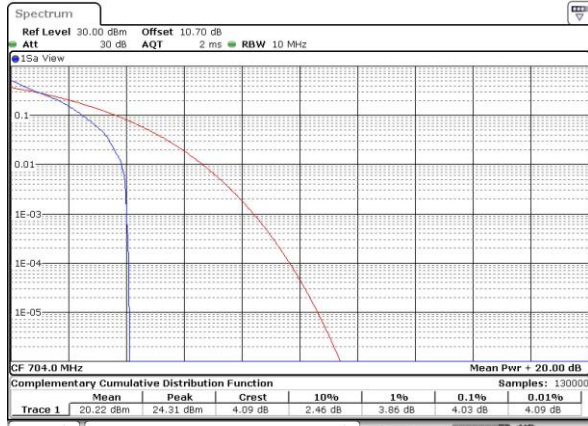
1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



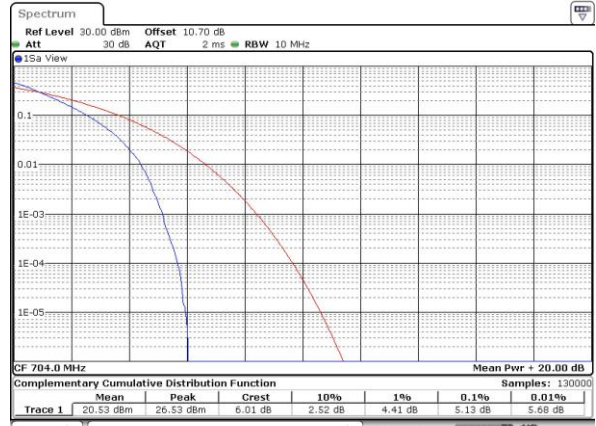
LTE Band 12

Peak-to-Average Ratio

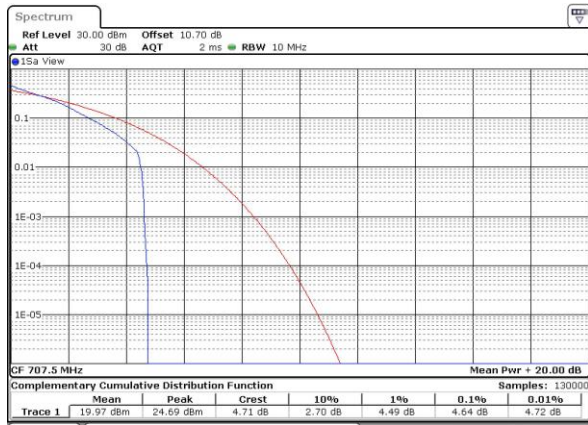
Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.03	5.13	5.1	6.09	PASS
Middle CH	4.64	4.78	5.74	5.97	
Highest CH	4.81	4.93	5.62	5.94	

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


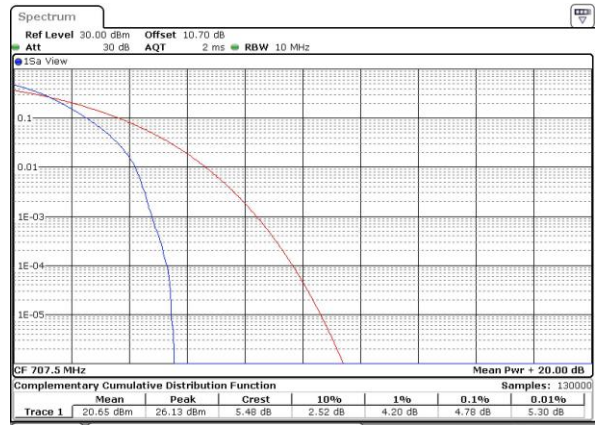
Date: 9 FEB 2017 16:24:10

Lowest Channel / Full RB


Date: 9 FEB 2017 16:22:02

Middle Channel / 1RB


Date: 9 FEB 2017 16:24:20

Middle Channel / Full RB


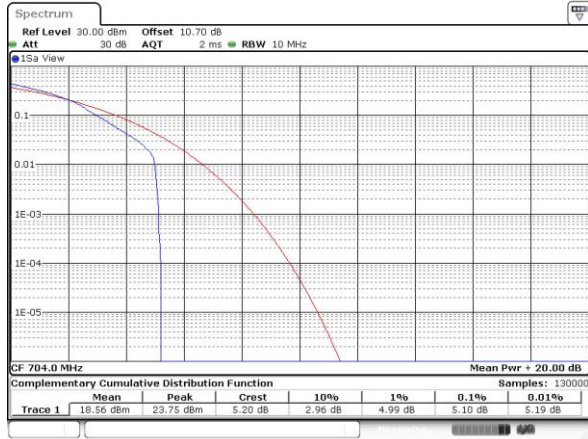
Date: 9 FEB 2017 16:24:29

Highest Channel / 1RB

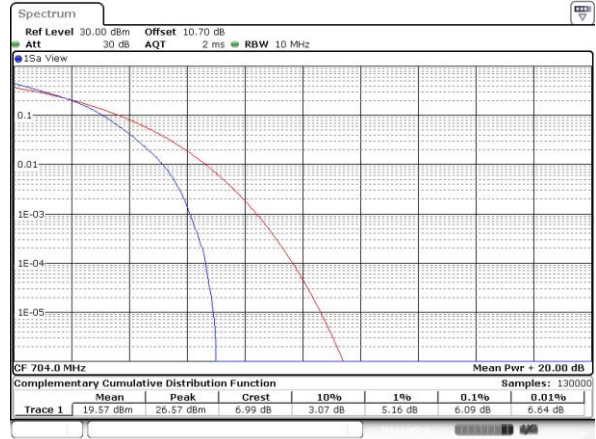

Date: 9 FEB 2017 16:24:55

Highest Channel / Full RB

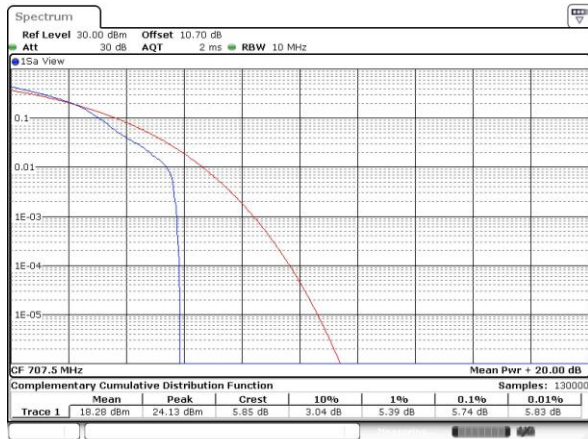

Date: 9 FEB 2017 16:24:44

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


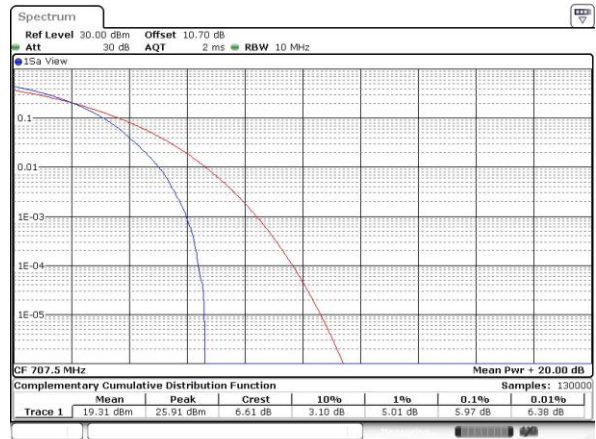
Date: 9 FEB 2017 16:19:12

Lowest Channel / Full RB


Date: 9 FEB 2017 16:18:29

Middle Channel / 1RB


Date: 9 FEB 2017 16:19:44

Middle Channel / Full RB


Date: 9 FEB 2017 16:19:55

Highest Channel / 1RB


Date: 9 FEB 2017 16:21:42

Highest Channel / Full RB


Date: 9 FEB 2017 16:20:15



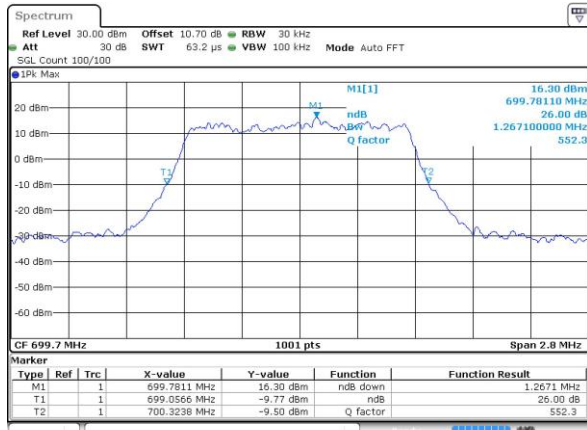
26dB Bandwidth

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	1.267	1.27	3.033	3.003	4.995	4.935	9.75	9.67	-	-	-	-
Middle CH	1.262	1.295	2.991	2.973	4.955	4.835	9.77	9.69	-	-	-	-
Highest CH	1.276	1.284	3.033	3.039	4.775	4.815	9.81	9.83	-	-	-	-



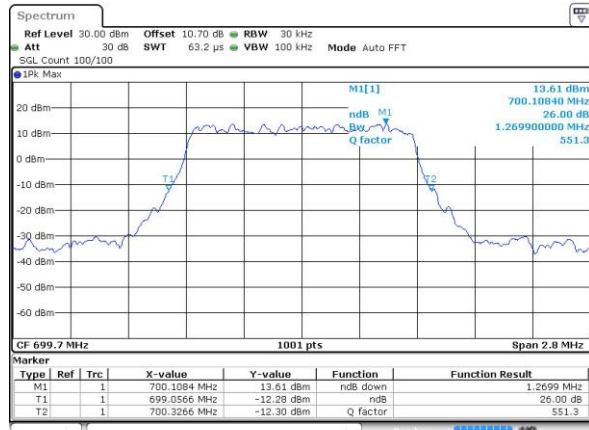
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



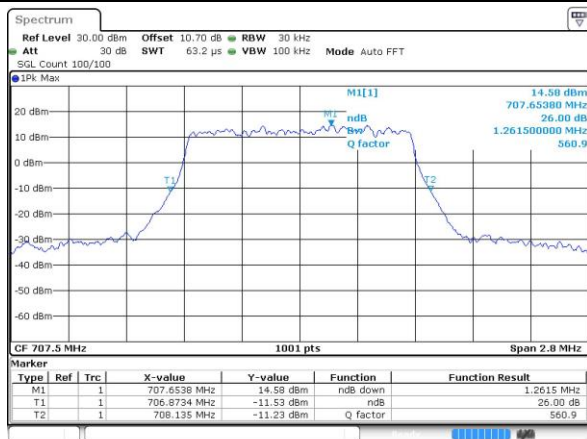
Date: 9 FEB 2017 11:54:34

Lowest Channel / 1.4MHz / 16QAM



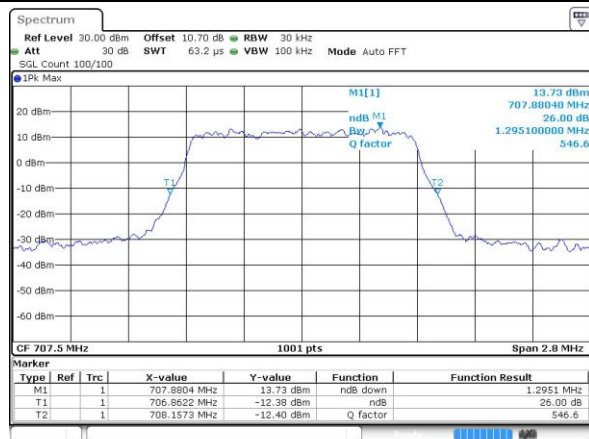
Date: 9 FEB 2017 11:54:23

Middle Channel / 1.4MHz / QPSK



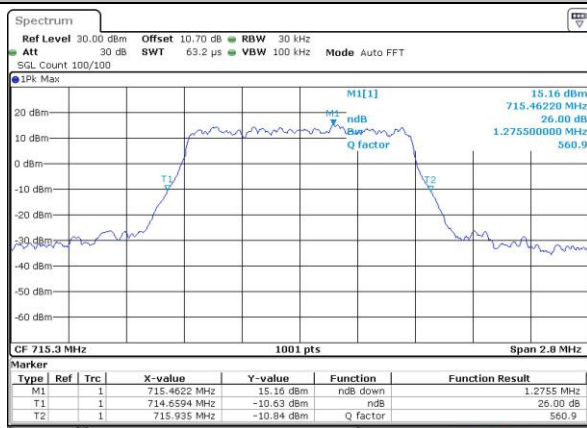
Date: 9 FEB 2017 12:01:30

Middle Channel / 1.4MHz / 16QAM



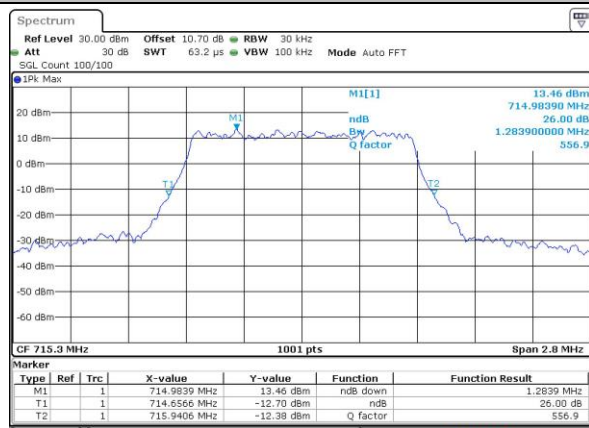
Date: 9 FEB 2017 12:01:41

Highest Channel / 1.4MHz / QPSK



Date: 9 FEB 2017 12:04:11

Highest Channel / 1.4MHz / 16QAM

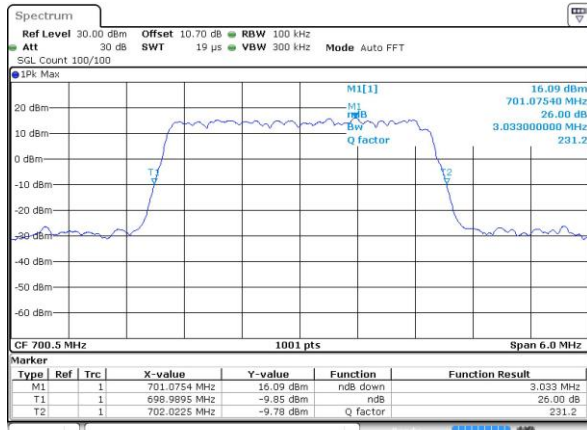


Date: 9 FEB 2017 12:04:01

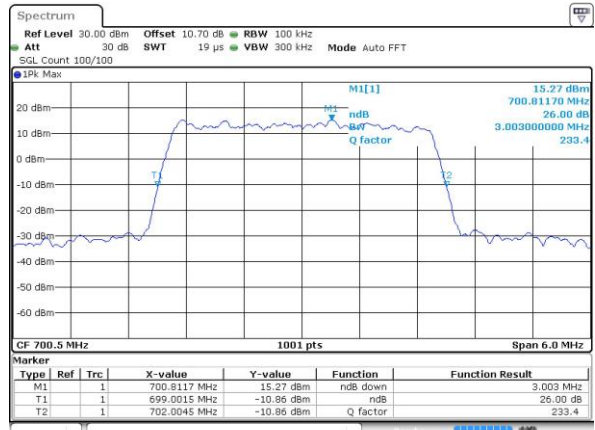


LTE Band 12

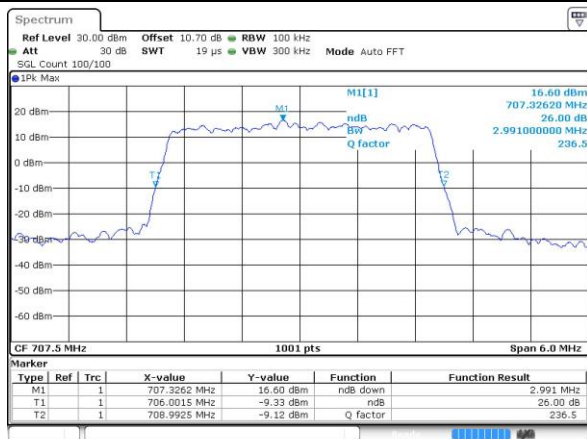
Lowest Channel / 3MHz / QPSK



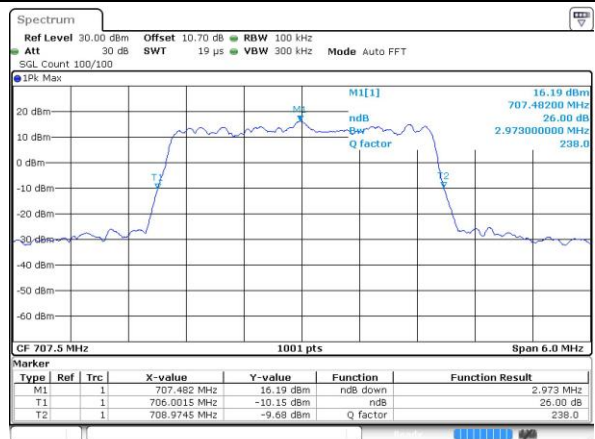
Lowest Channel / 3MHz / 16QAM



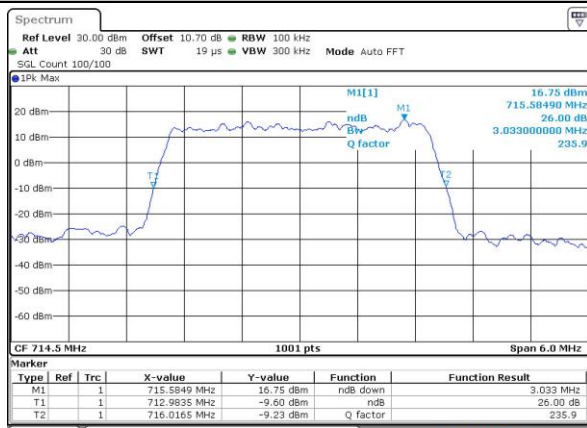
Middle Channel / 3MHz / QPSK



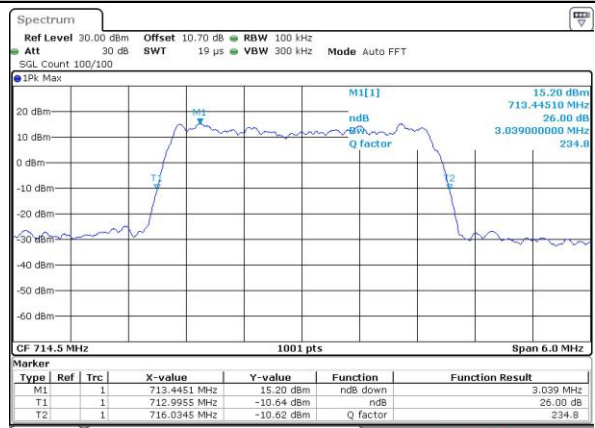
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



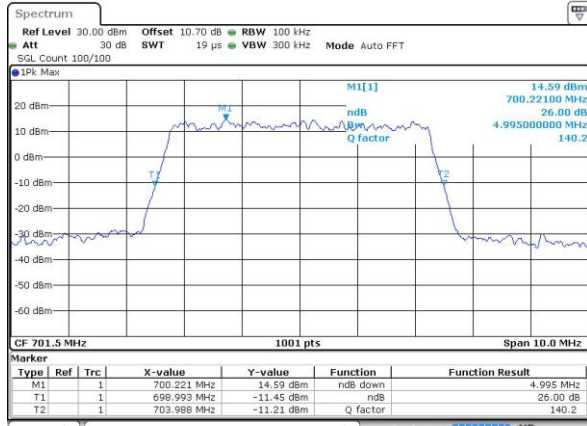
Highest Channel / 3MHz / 16QAM





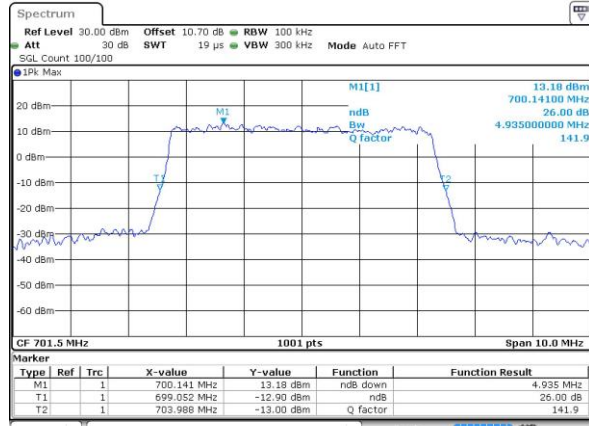
LTE Band 12

Lowest Channel / 5MHz / QPSK



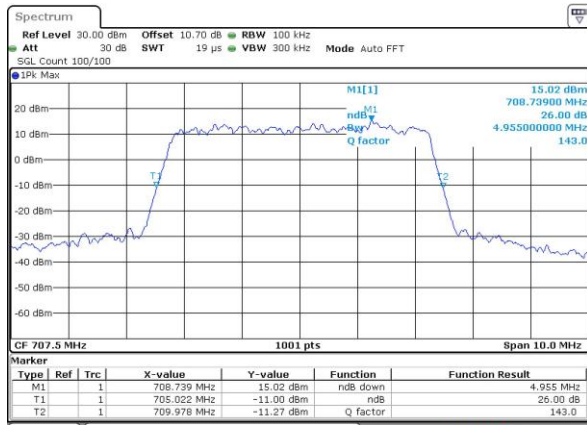
Date: 9 FEB 2017 10:45:48

Lowest Channel / 5MHz / 16QAM



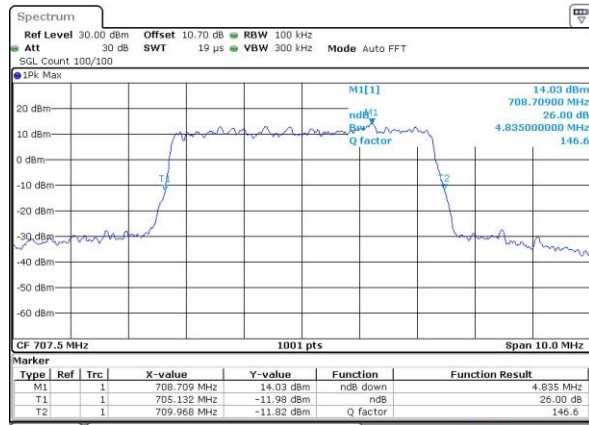
Date: 9 FEB 2017 10:45:38

Middle Channel / 5MHz / QPSK



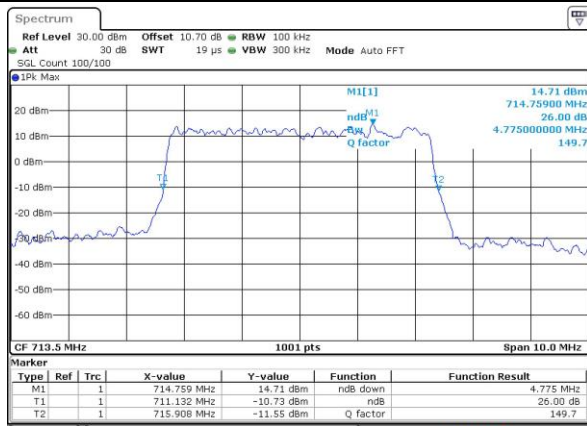
Date: 9 FEB 2017 10:52:45

Middle Channel / 5MHz / 16QAM



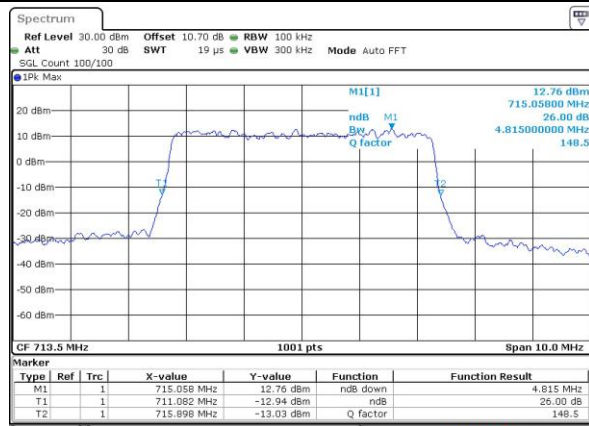
Date: 9 FEB 2017 10:52:55

Highest Channel / 5MHz / QPSK



Date: 9 FEB 2017 11:04:18

Highest Channel / 5MHz / 16QAM

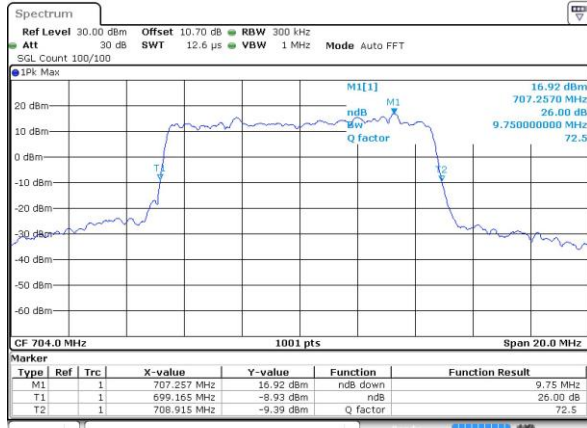


Date: 9 FEB 2017 10:55:16

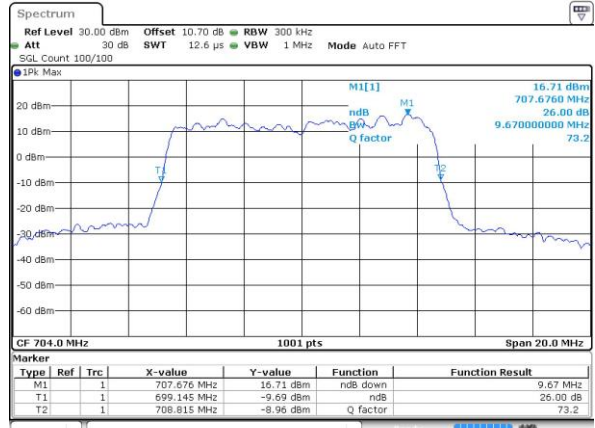


LTE Band 12

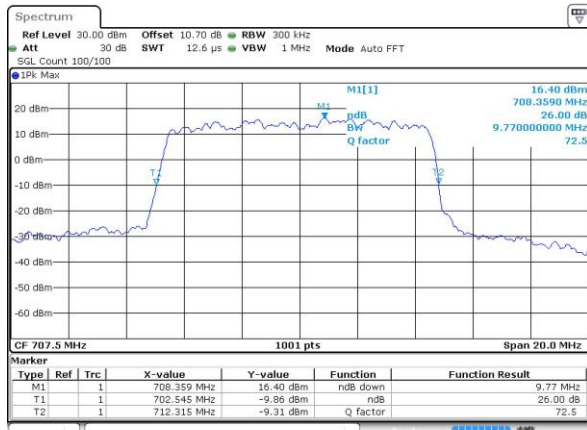
Lowest Channel / 10MHz / QPSK



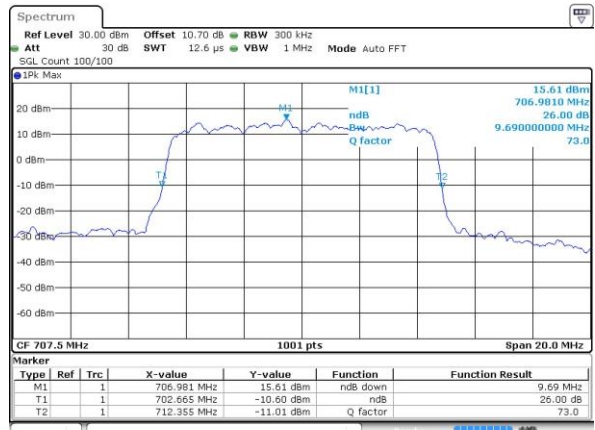
Lowest Channel / 10MHz / 16QAM



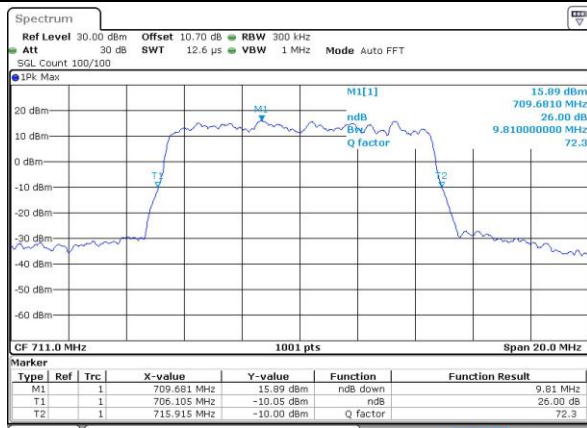
Middle Channel / 10MHz / QPSK



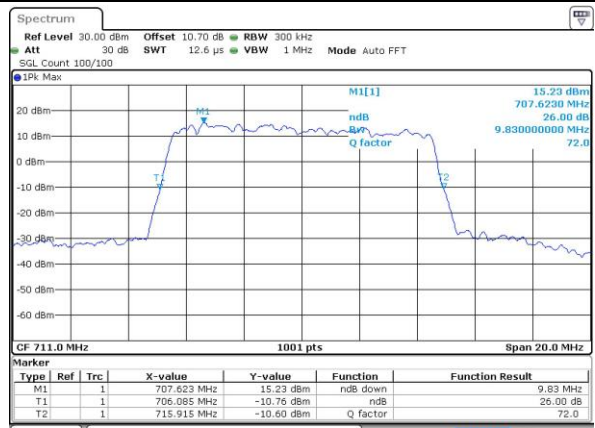
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM





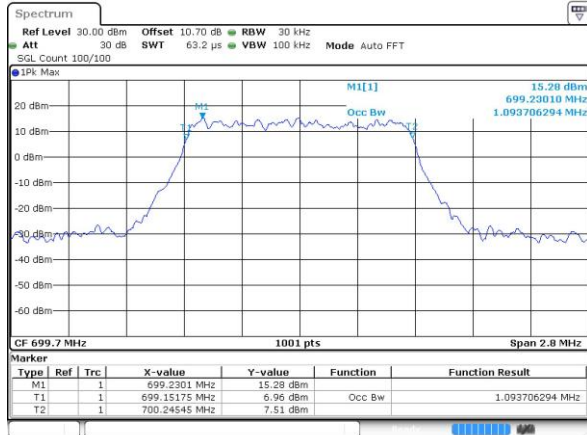
Occupied Bandwidth

Mode	LTE Band 12 : 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	2.73	2.7	4.5	4.51	9.11	9.03	-	-	-	-
Middle CH	1.09	1.1	2.71	2.7	4.48	4.5	8.97	8.97	-	-	-	-
Highest CH	1.1	1.09	2.72	2.75	4.49	4.5	8.95	8.93	-	-	-	-

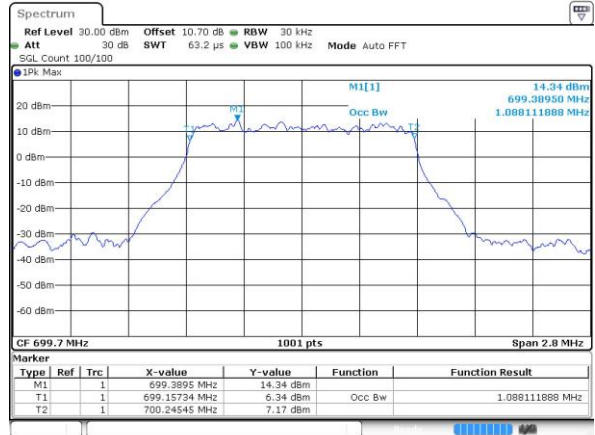


LTE Band 12

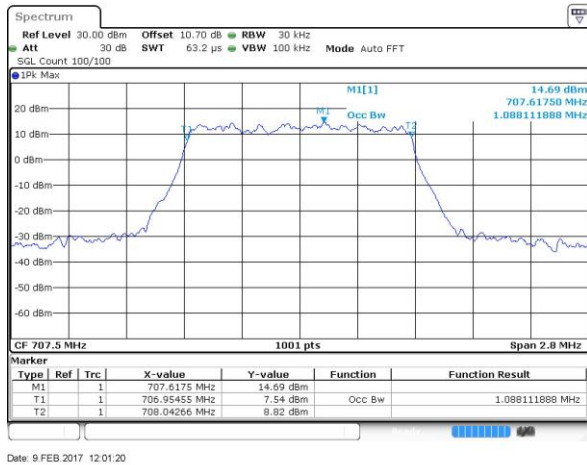
Lowest Channel / 1.4MHz / QPSK



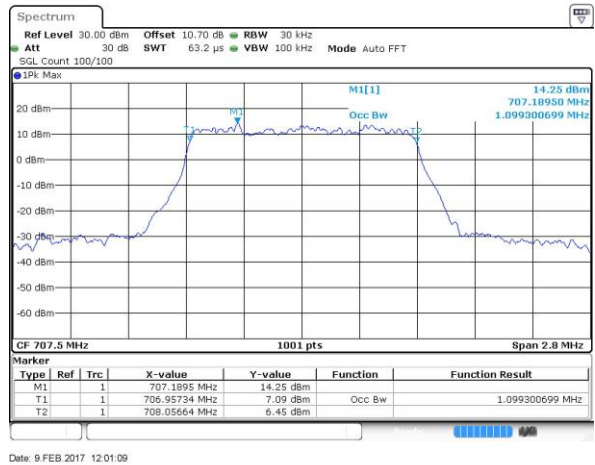
Lowest Channel / 1.4MHz / 16QAM



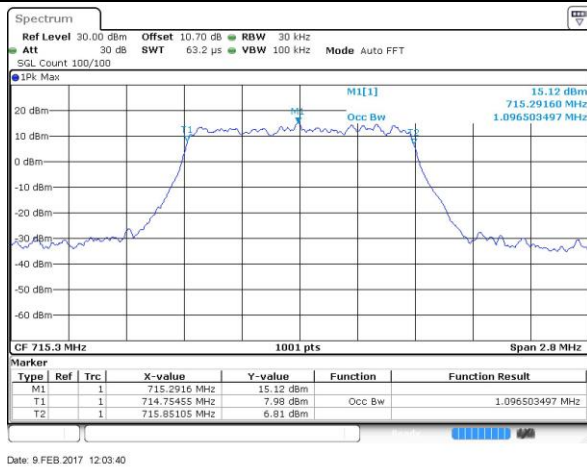
Middle Channel / 1.4MHz / QPSK



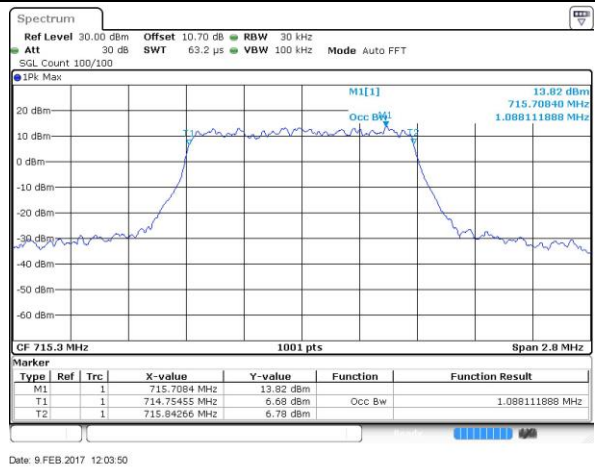
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



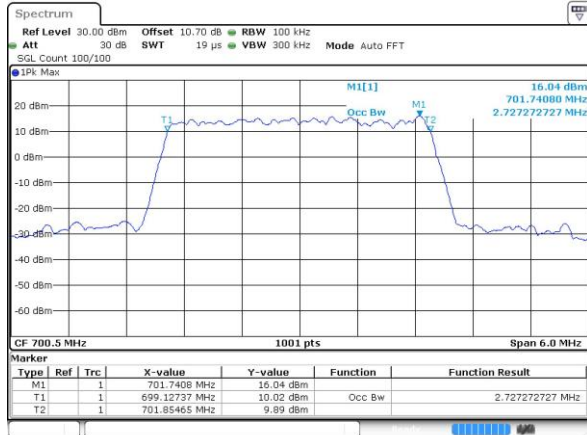
Highest Channel / 1.4MHz / 16QAM



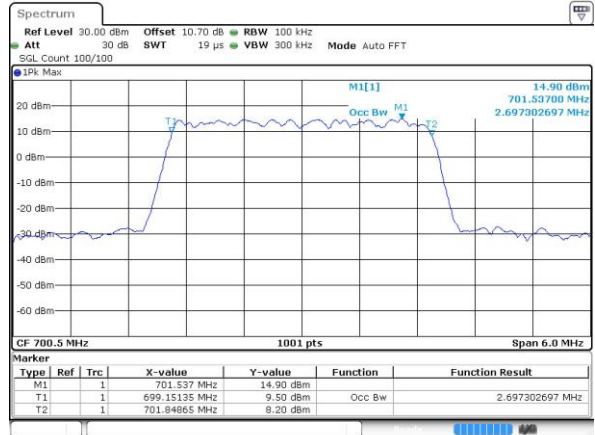


LTE Band 12

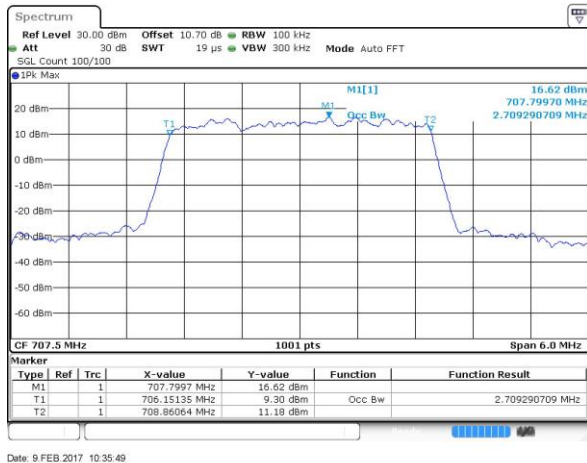
Lowest Channel / 3MHz / QPSK



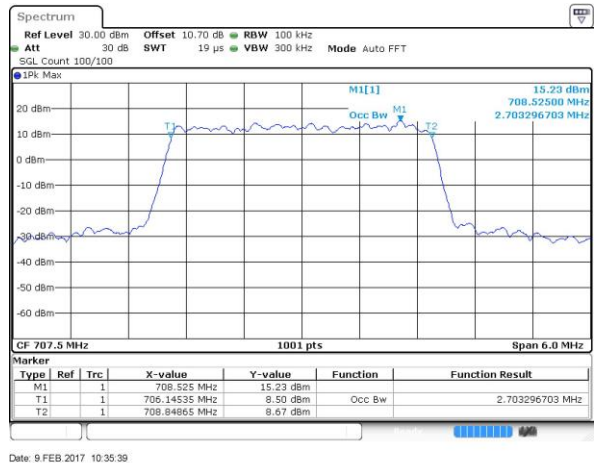
Lowest Channel / 3MHz / 16QAM



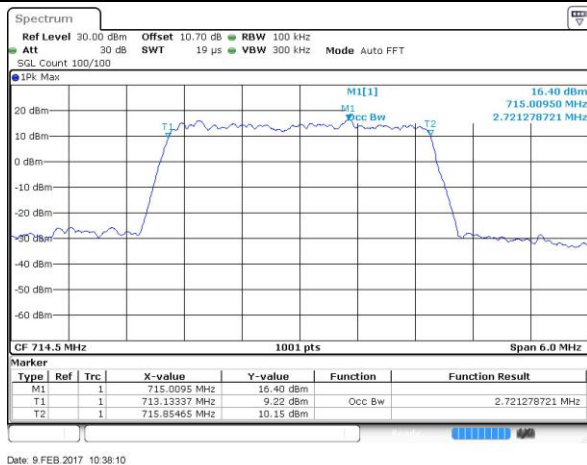
Middle Channel / 3MHz / QPSK



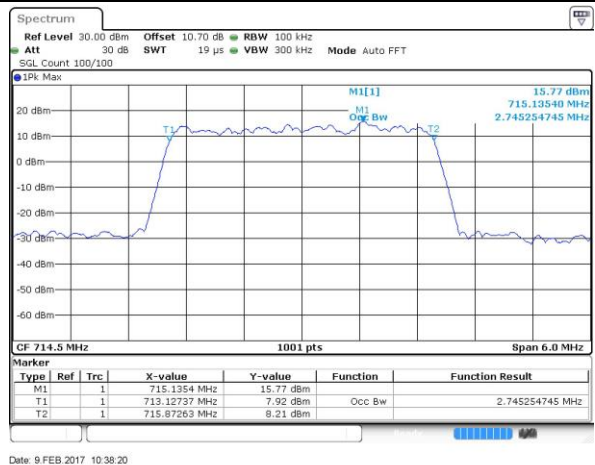
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



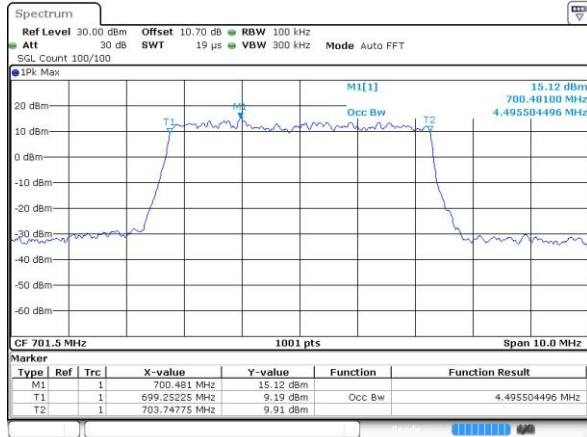
Highest Channel / 3MHz / 16QAM





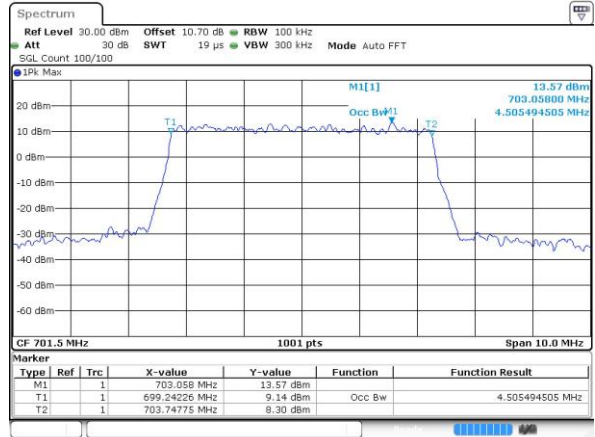
LTE Band 12

Lowest Channel / 5MHz / QPSK



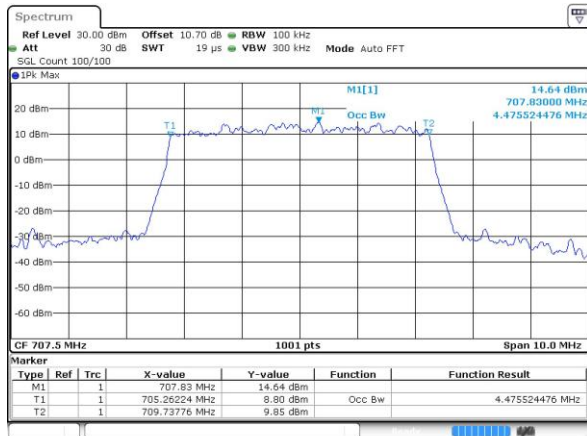
Date: 9 FEB 2017 10:45:17

Lowest Channel / 5MHz / 16QAM



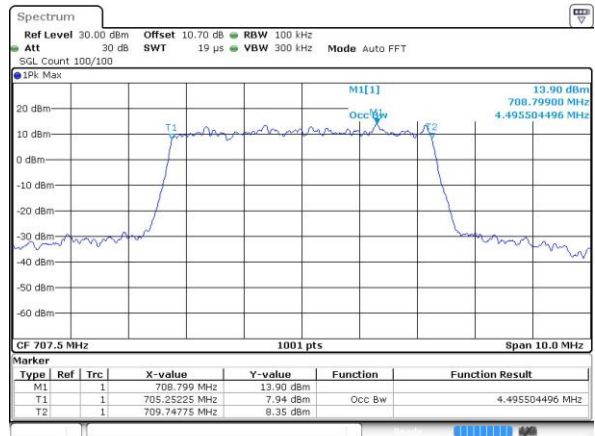
Date: 9 FEB 2017 10:45:27

Middle Channel / 5MHz / QPSK



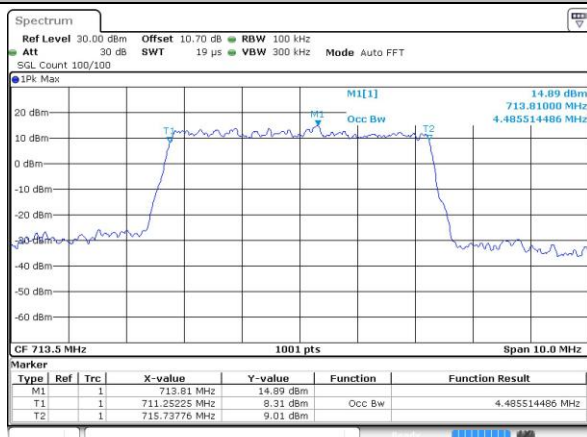
Date: 9 FEB 2017 10:52:35

Middle Channel / 5MHz / 16QAM



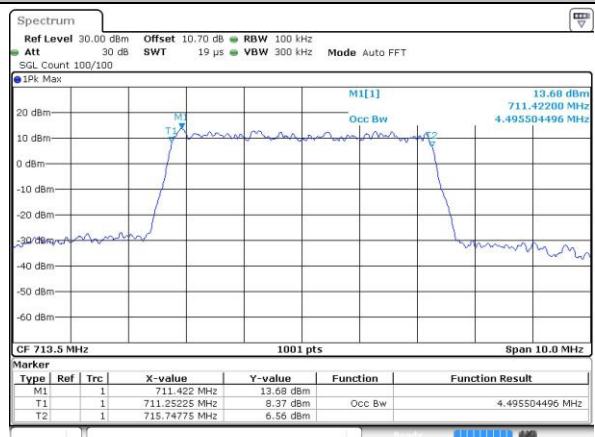
Date: 9 FEB 2017 10:52:24

Highest Channel / 5MHz / QPSK



Date: 9 FEB 2017 10:54:55

Highest Channel / 5MHz / 16QAM



Date: 9 FEB 2017 10:55:05