

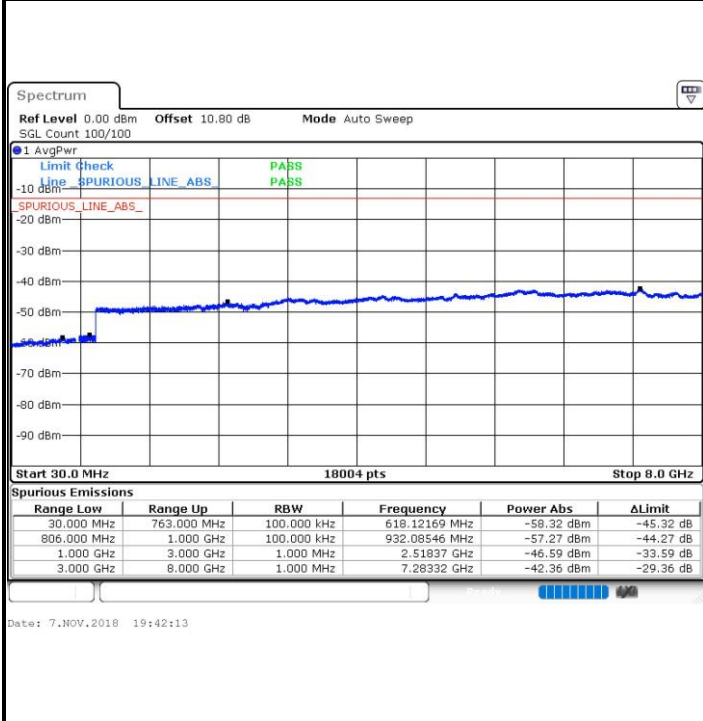


Conducted Spurious Emission

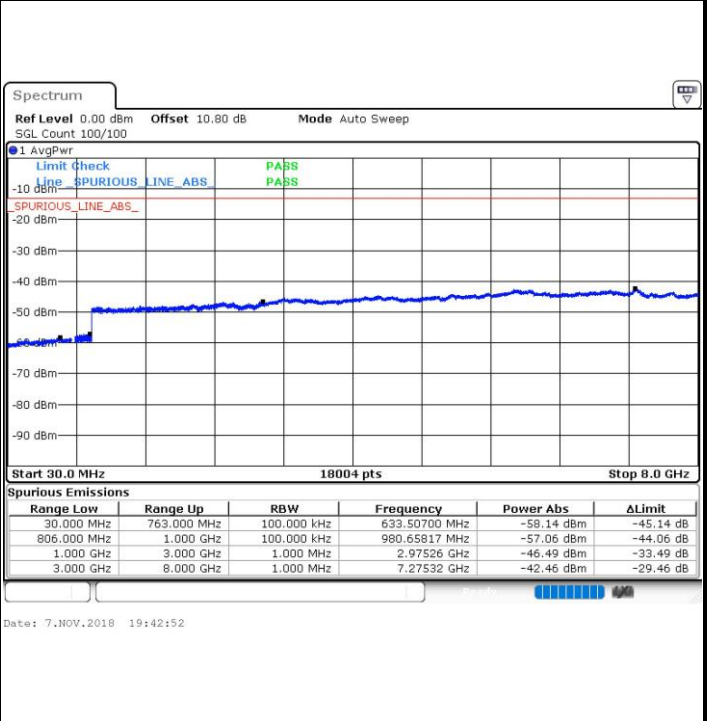


LTE Band 13 / 5MHz

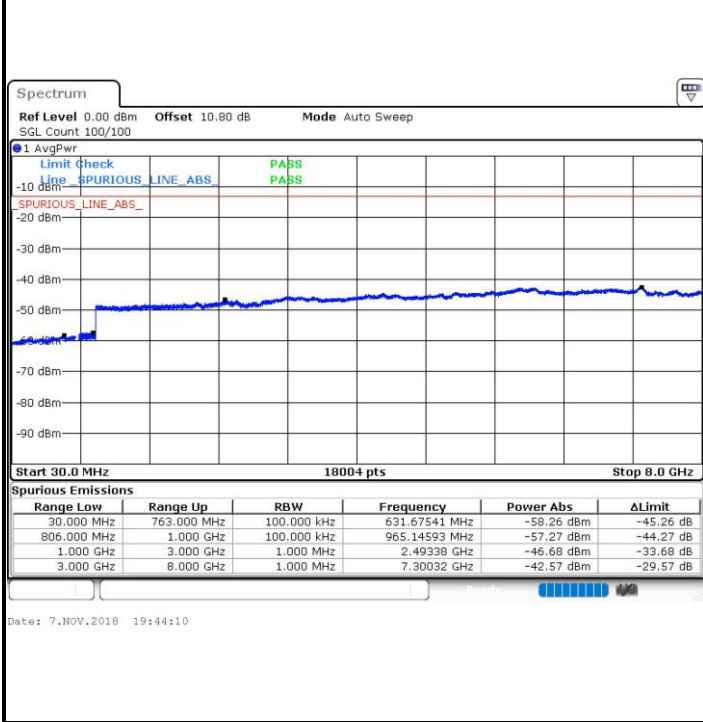
Lowest Channel / QPSK



Lowest Channel / 16QAM



Middle Channel / QPSK



Middle Channel / 16QAM

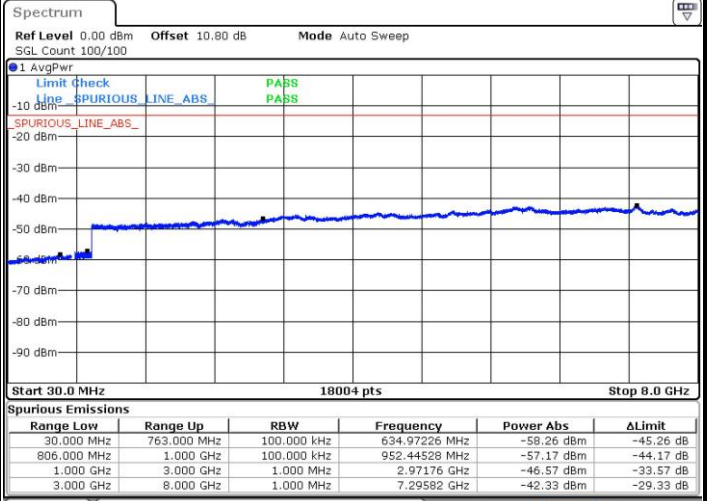
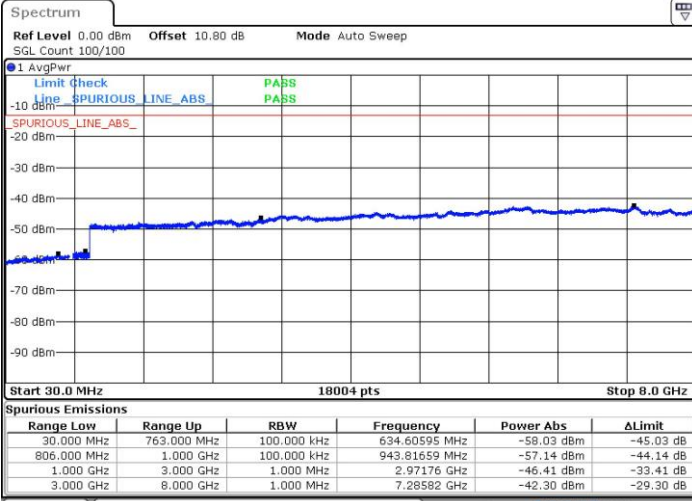




LTE Band 13 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



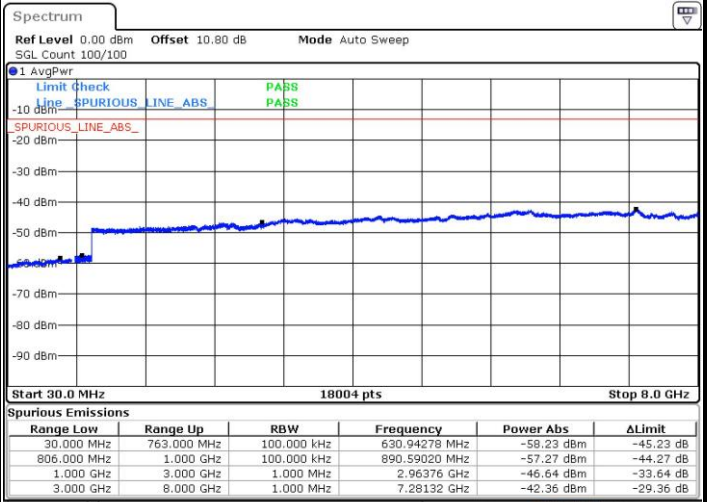
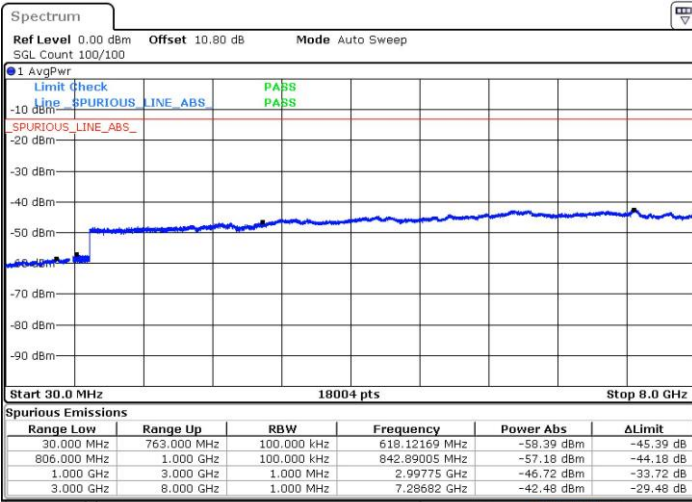
Date: 7.NOV.2018 19:52:59

Date: 7.NOV.2018 19:53:39

LTE Band 13 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 7.NOV.2018 20:15:24

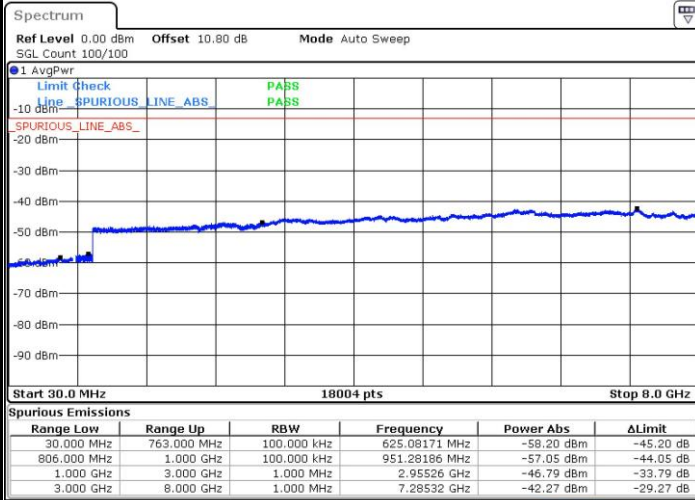
Date: 7.NOV.2018 20:14:45



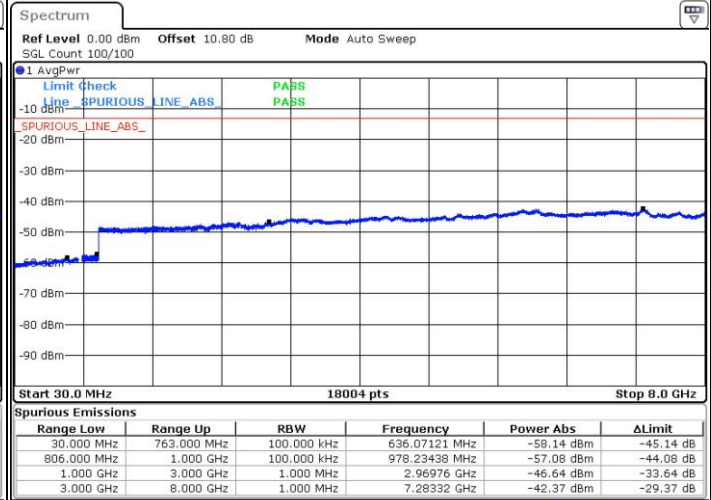
LTE Band 13 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

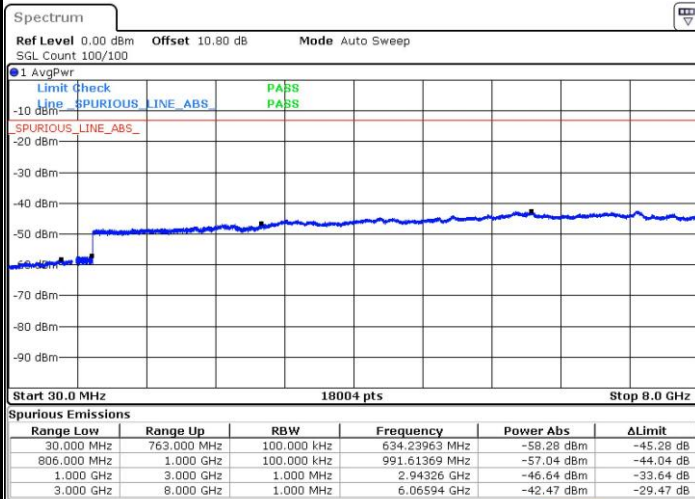


Date: 7.NOV.2018 19:58:00



Date: 7.NOV.2018 19:58:39

Highest Channel / 64QAM

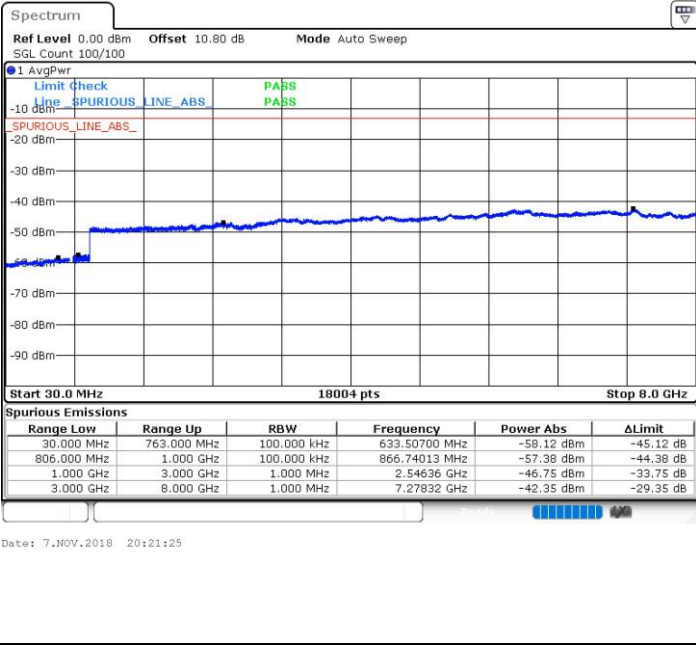


Date: 7.NOV.2018 20:03:23



LTE Band 13 / 10MHz

Middle Channel / 64QAM





Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0059	PASS
40	Normal Voltage	0.0028	
30	Normal Voltage	0.0014	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0010	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0051	
-20	Normal Voltage	0.0107	
-30	Normal Voltage	0.0008	
20	Maximum Voltage	0.0031	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0070	

Note:

1. Normal Voltage =3.9 V. ; Battery End Point (BEP) =3.65 V. ; Maximum Voltage =4.3 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 17

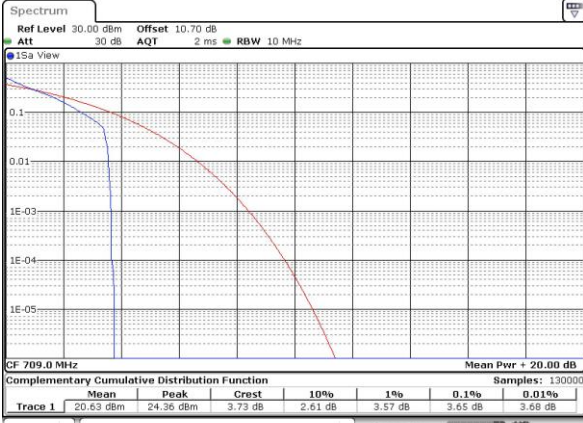
Peak-to-Average Ratio

Mode	LTE Band 17 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.65	4.67	5.62	5.91	PASS
Middle CH	3.65	4.64	5.65	5.94	
Highest CH	3.68	4.64	5.57	6	
Mode	LTE Band 17 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.52	6.55	-	-	PASS
Middle CH	6.35	6.35	-	-	
Highest CH	7.01	6.49	-	-	



LTE Band 17 / 10MHz / QPSK

Lowest Channel / 1RB



Date: 5 NOV 2018 16:51:08

Lowest Channel / Full RB



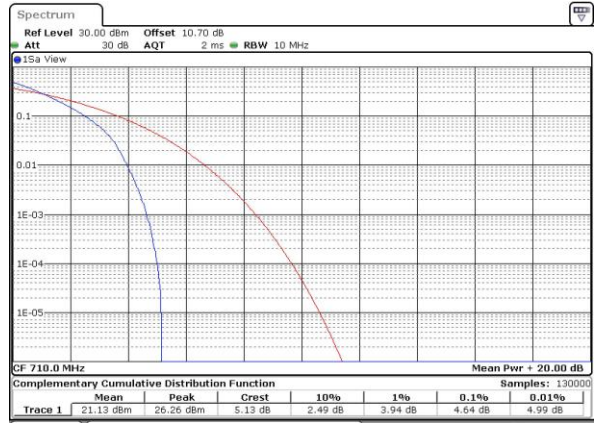
Date: 5 NOV 2018 16:51:24

Middle Channel / 1RB



Date: 5 NOV 2018 16:51:35

Middle Channel / Full RB



Date: 5 NOV 2018 16:51:46

Highest Channel / 1RB



Date: 5 NOV 2018 16:51:57

Highest Channel / Full RB



Date: 5 NOV 2018 16:52:08



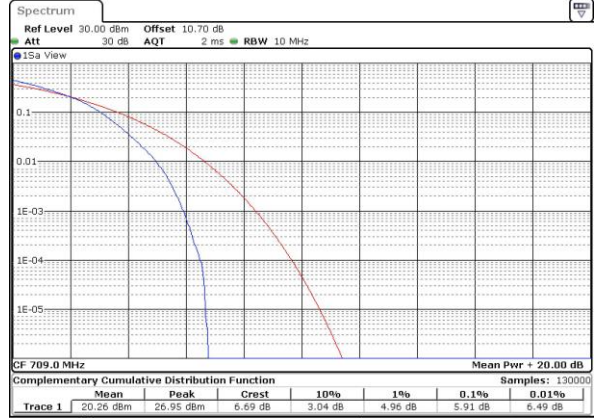
LTE Band 17 / 10MHz / 16QAM

Lowest Channel / 1RB



Date: 5 NOV 2018 16:55:52

Lowest Channel / Full RB



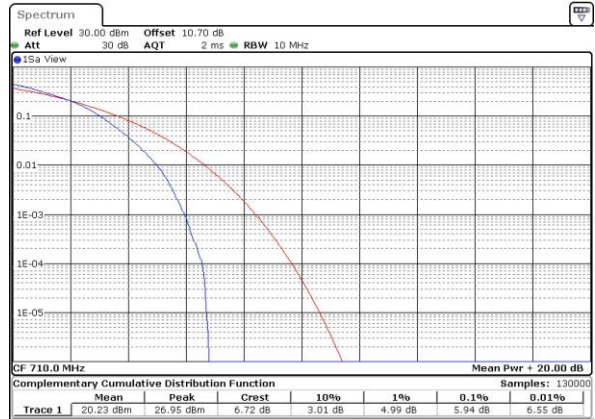
Date: 5 NOV 2018 16:49:09

Middle Channel / 1RB



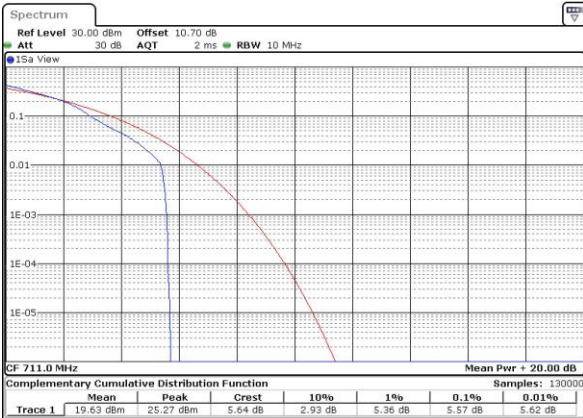
Date: 5 NOV 2018 16:49:19

Middle Channel / Full RB



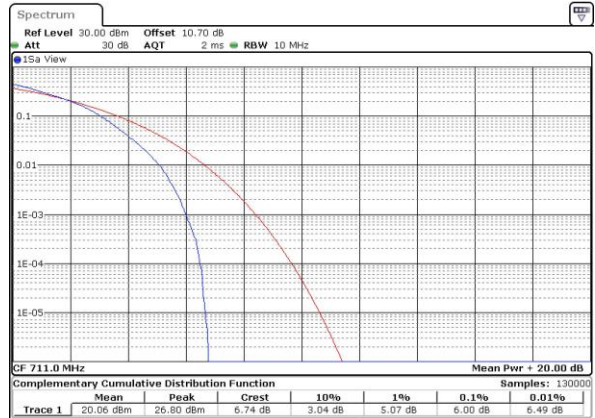
Date: 5 NOV 2018 16:50:19

Highest Channel / 1RB



Date: 5 NOV 2018 16:50:30

Highest Channel / Full RB

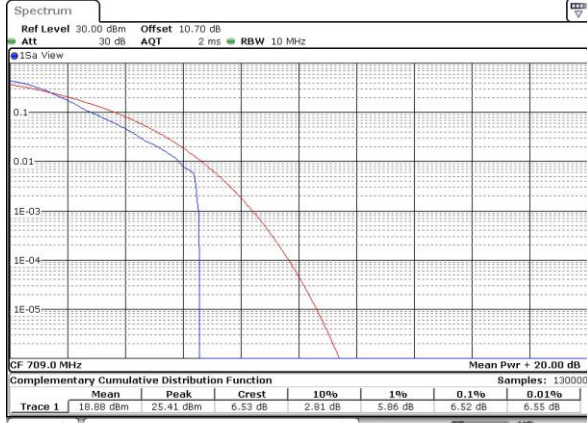


Date: 5 NOV 2018 16:50:47



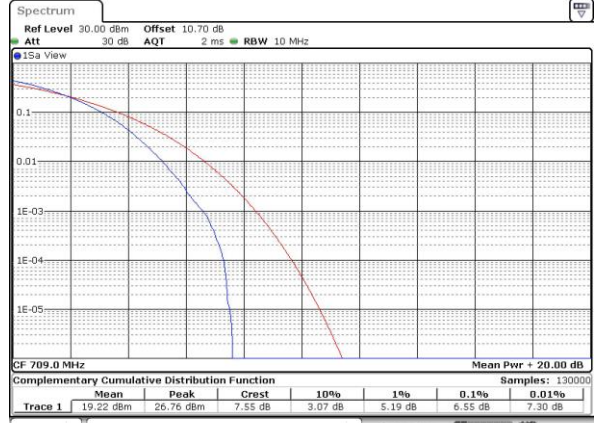
LTE Band 17 / 10MHz / 64QAM

Lowest Channel / 1RB



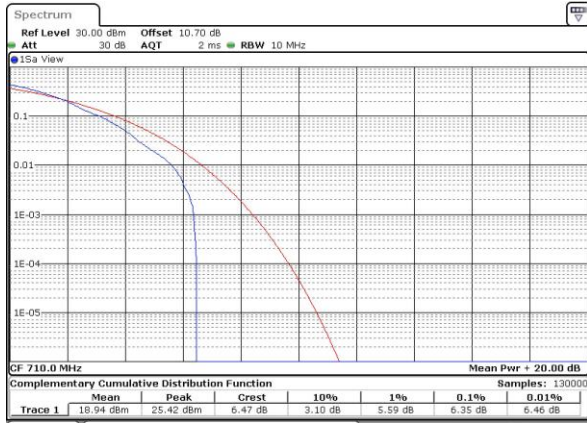
Date: 5 NOV 2018 16:52:21

Lowest Channel / Full RB



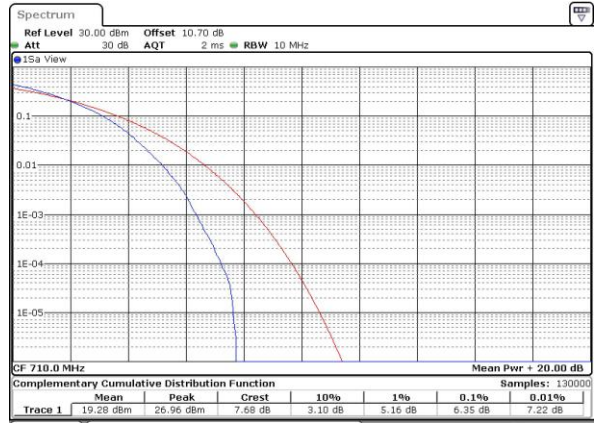
Date: 5 NOV 2018 16:52:32

Middle Channel / 1RB



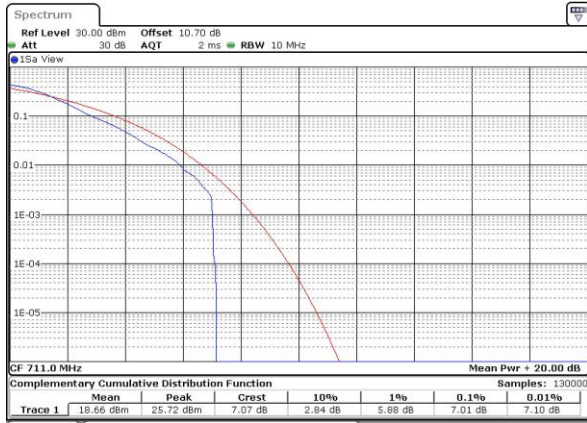
Date: 5 NOV 2018 16:52:45

Middle Channel / Full RB



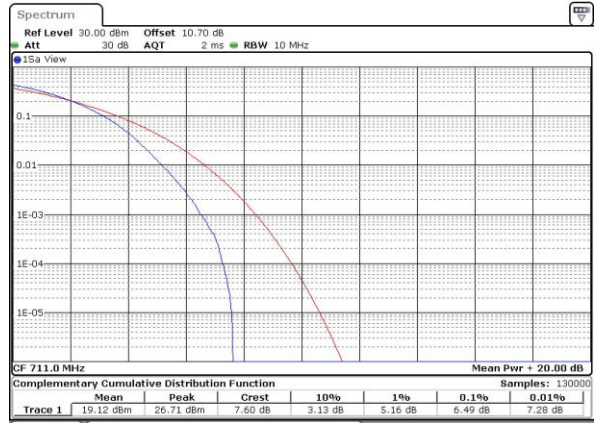
Date: 5 NOV 2018 16:53:10

Highest Channel / 1RB



Date: 5 NOV 2018 16:53:21

Highest Channel / Full RB



Date: 5 NOV 2018 16:53:33



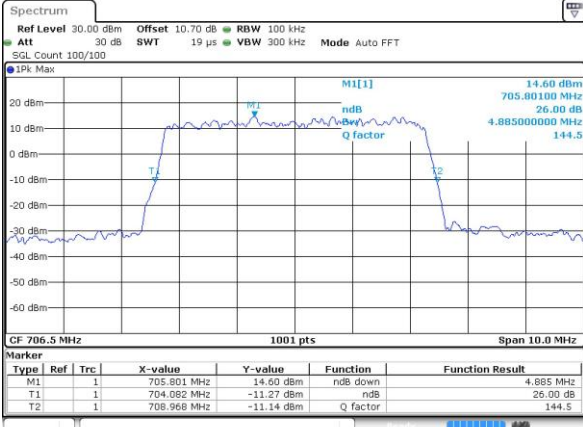
26dB Bandwidth

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	-	-	-	-	4.89	4.87	9.79	9.91	-	-	-	-
Middle CH	-	-	-	-	4.88	4.93	9.71	9.65	-	-	-	-
Highest CH	-	-	-	-	4.93	4.90	9.93	9.79	-	-	-	-
Mode	LTE Band 17 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.87	-	9.71	-	-	-	-	-
Middle CH	-	-	-	-	4.89	-	9.69	-	-	-	-	-
Highest CH	-	-	-	-	4.87	-	9.69	-	-	-	-	-



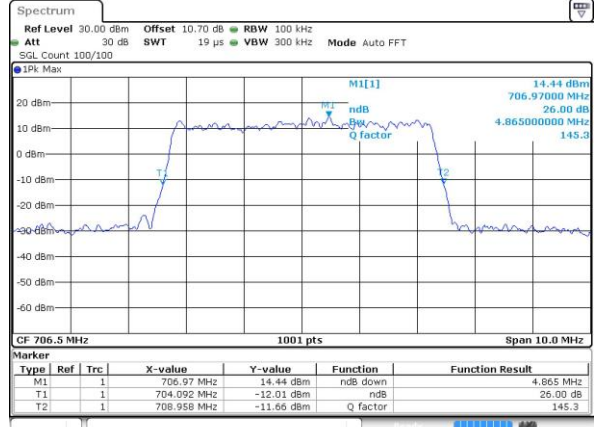
LTE Band 17

Lowest Channel / 5MHz / QPSK



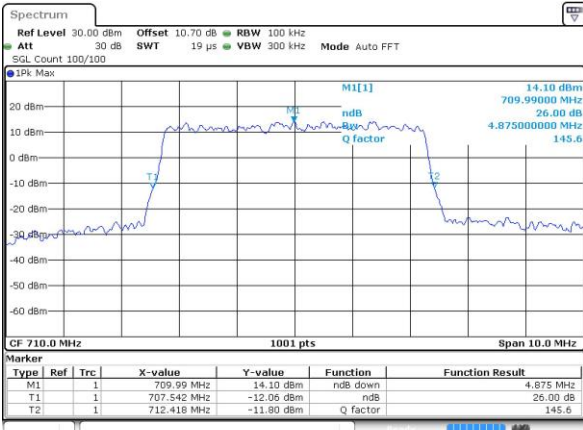
Date: 5 NOV 2018 15:33:22

Lowest Channel / 5MHz / 16QAM



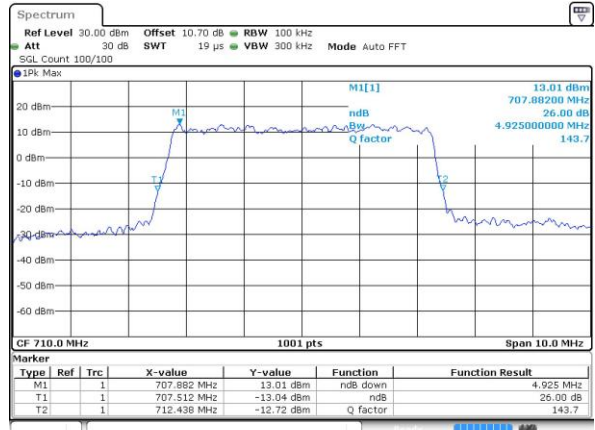
Date: 5 NOV 2018 15:33:34

Middle Channel / 5MHz / QPSK



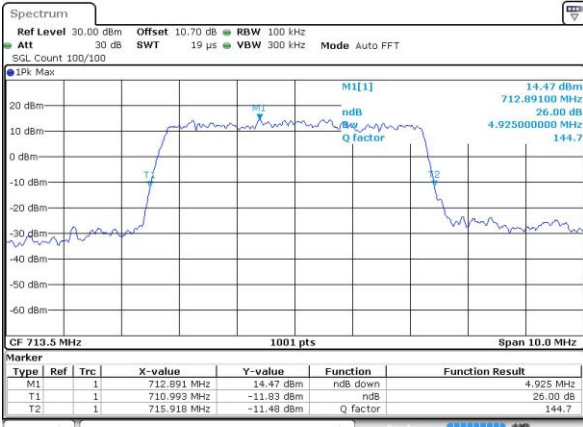
Date: 5 NOV 2018 15:39:29

Middle Channel / 5MHz / 16QAM



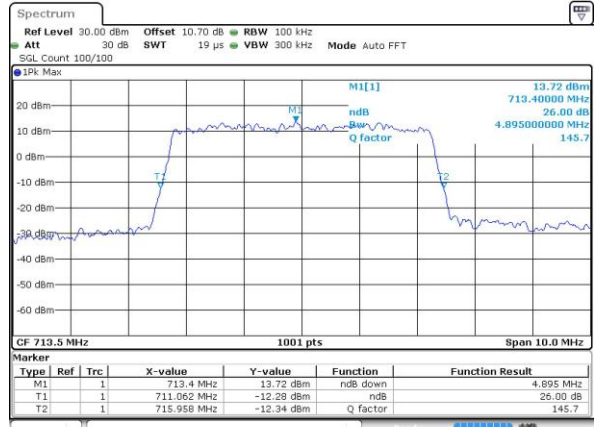
Date: 5 NOV 2018 15:39:40

Highest Channel / 5MHz / QPSK



Date: 5 NOV 2018 15:41:35

Highest Channel / 5MHz / 16QAM

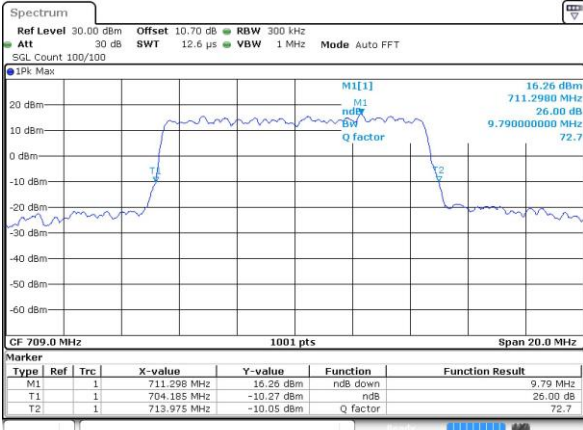


Date: 5 NOV 2018 15:41:46



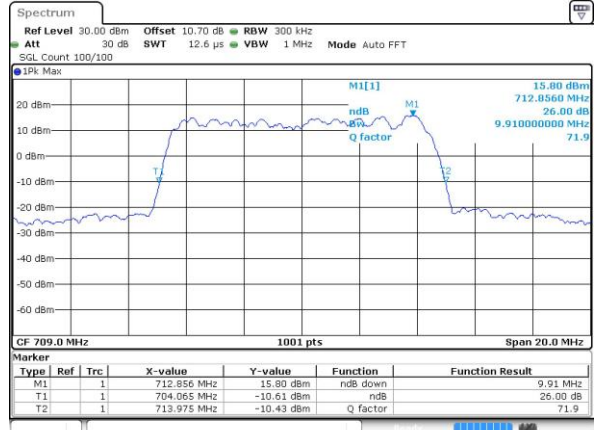
LTE Band 17

Lowest Channel / 10MHz / QPSK



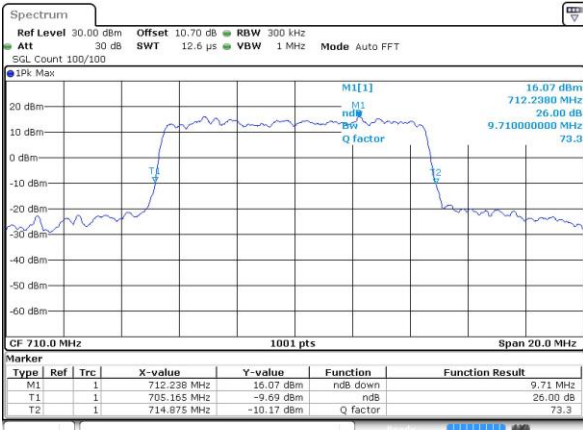
Date: 5 NOV 2018 15:47:41

Lowest Channel / 10MHz / 16QAM



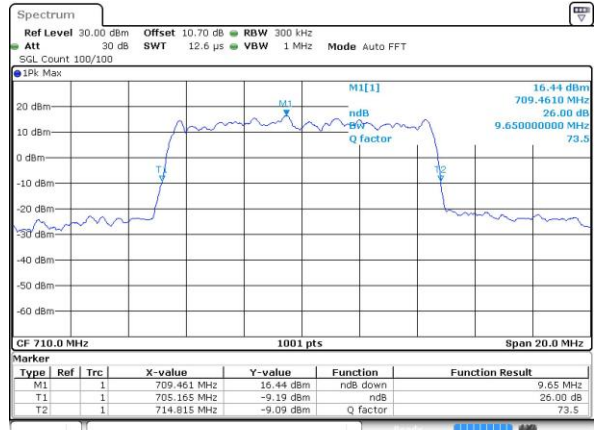
Date: 5 NOV 2018 15:47:52

Middle Channel / 10MHz / QPSK



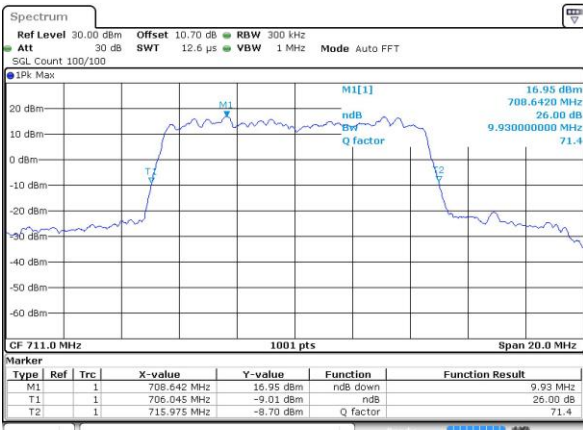
Date: 5 NOV 2018 15:53:47

Middle Channel / 10MHz / 16QAM



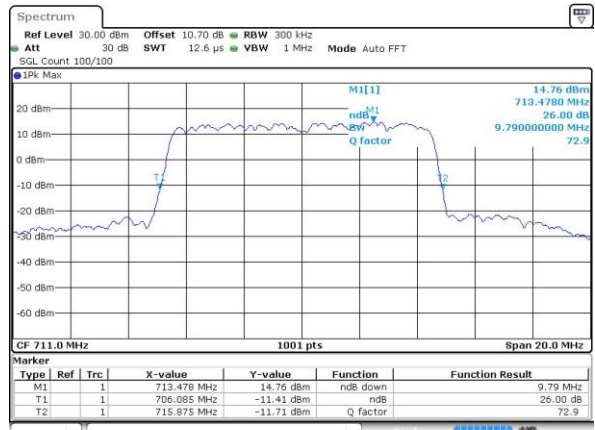
Date: 5 NOV 2018 15:53:58

Highest Channel / 10MHz / QPSK



Date: 5 NOV 2018 15:55:53

Highest Channel / 10MHz / 16QAM

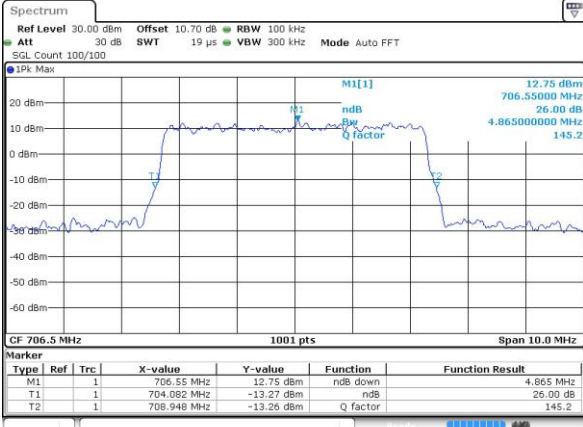


Date: 5 NOV 2018 15:56:04



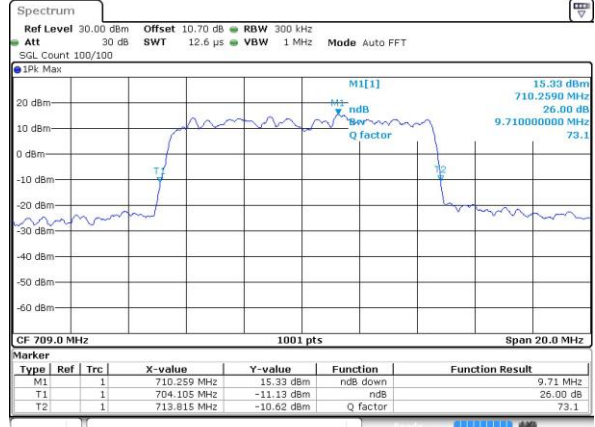
LTE Band 17

Lowest Channel / 5MHz / 64QAM



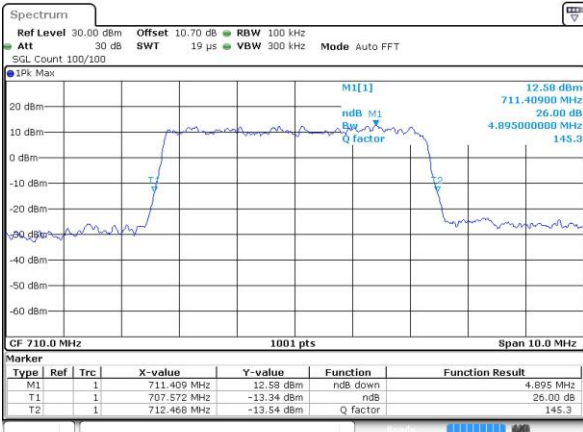
Date: 5 NOV 2018 16:01:47

Lowest Channel / 10MHz / 64QAM



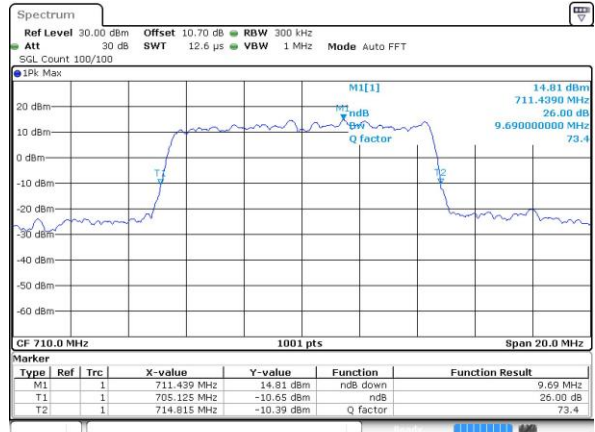
Date: 5 NOV 2018 16:08:57

Middle Channel / 5MHz / 64QAM



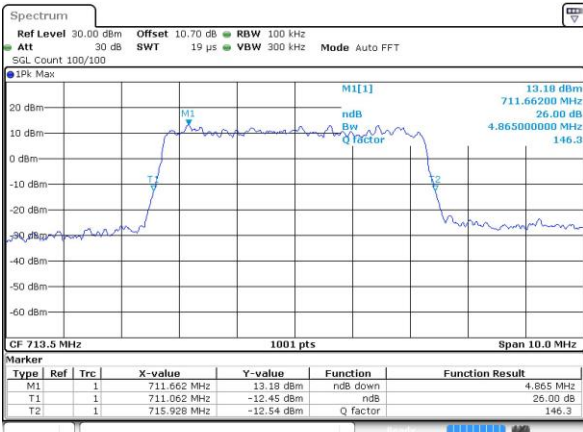
Date: 5 NOV 2018 16:04:51

Middle Channel / 10MHz / 64QAM



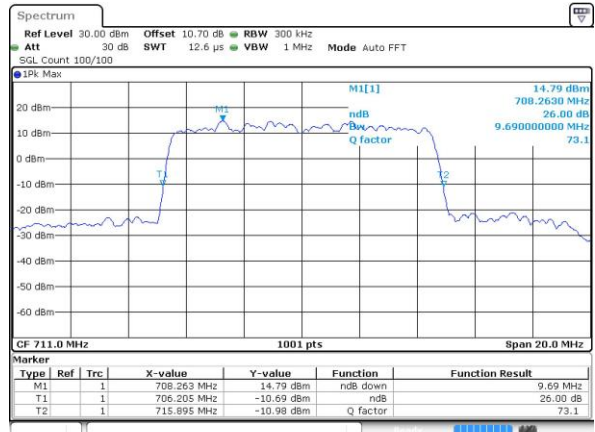
Date: 5 NOV 2018 16:12:00

Highest Channel / 5MHz / 64QAM



Date: 5 NOV 2018 16:05:53

Highest Channel / 10MHz / 64QAM



Date: 5 NOV 2018 16:13:03



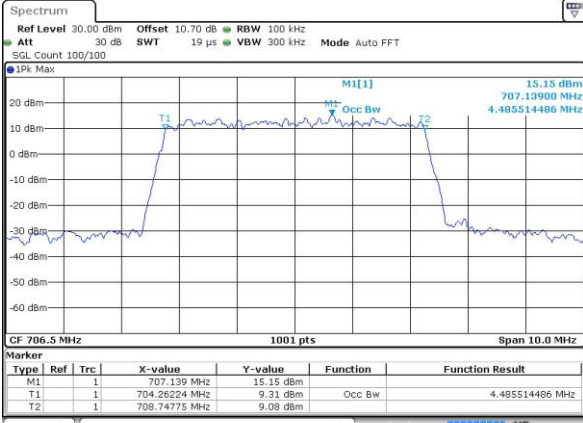
Occupied Bandwidth

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	-	-	-	-	4.49	4.48	9.11	9.01	-	-	-	-
Middle CH	-	-	-	-	4.5	4.47	8.99	9.05	-	-	-	-
Highest CH	-	-	-	-	4.48	4.5	8.97	9.01	-	-	-	-
Mode	LTE Band 17 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.53	-	8.97	-	-	-	-	-
Middle CH	-	-	-	-	4.49	-	8.99	-	-	-	-	-
Highest CH	-	-	-	-	4.50	-	9.03	-	-	-	-	-



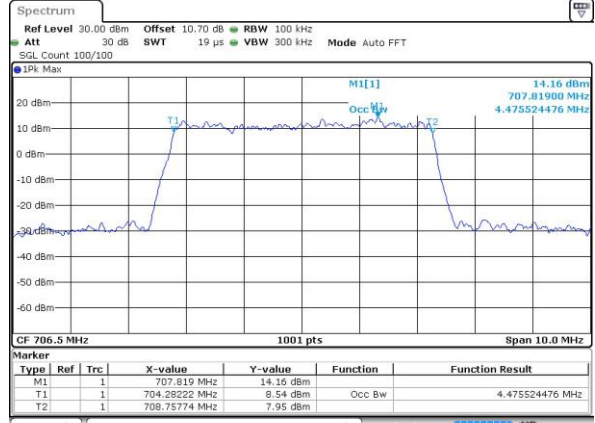
LTE Band 17

Lowest Channel / 5MHz / QPSK



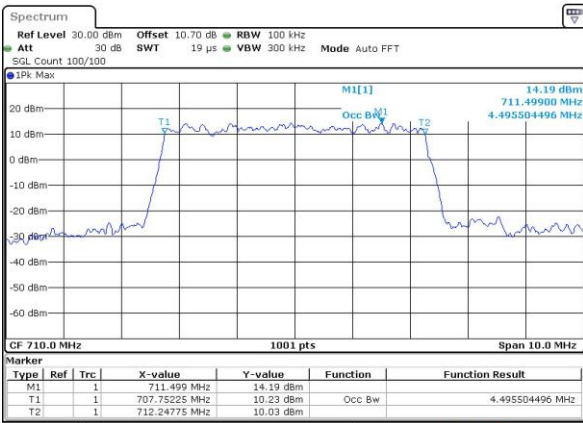
Date: 5 NOV 2018 15:32:59

Lowest Channel / 5MHz / 16QAM



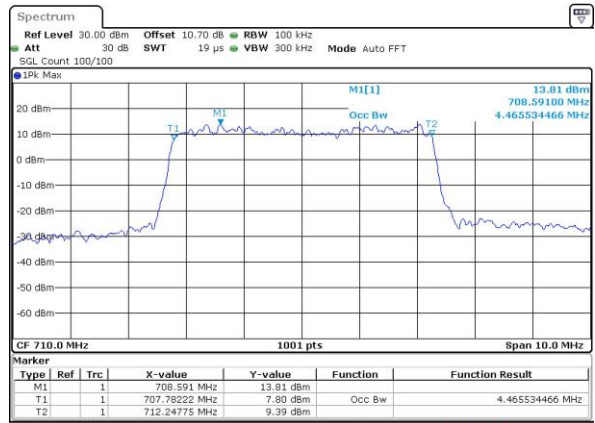
Date: 5 NOV 2018 15:33:11

Middle Channel / 5MHz / QPSK



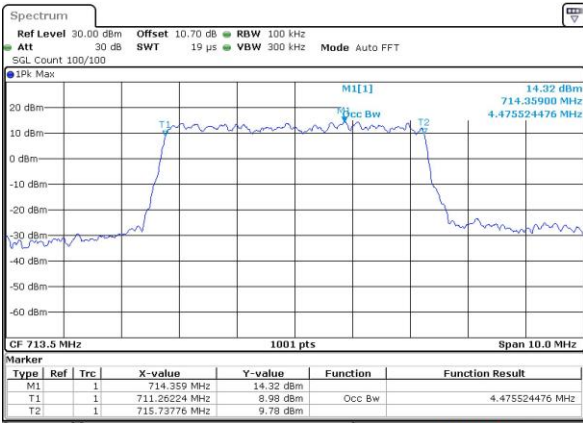
Date: 5 NOV 2018 15:39:06

Middle Channel / 5MHz / 16QAM



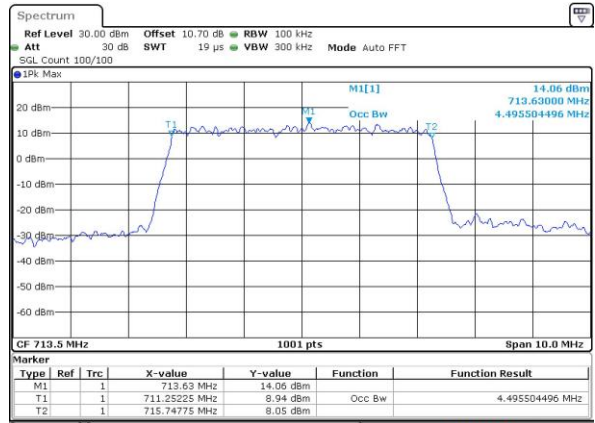
Date: 5 NOV 2018 15:39:17

Highest Channel / 5MHz / QPSK



Date: 5 NOV 2018 15:41:12

Highest Channel / 5MHz / 16QAM

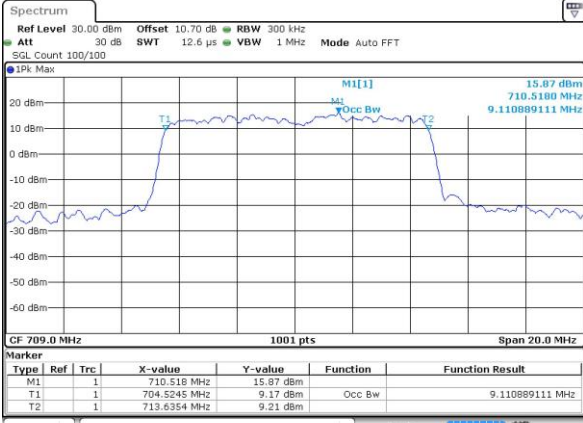


Date: 5 NOV 2018 15:41:23



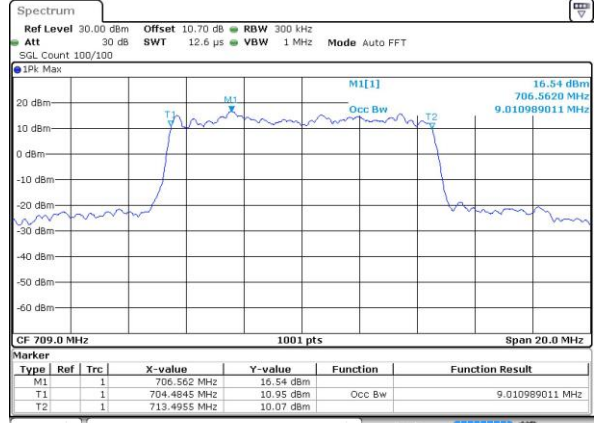
LTE Band 17

Lowest Channel / 10MHz / QPSK



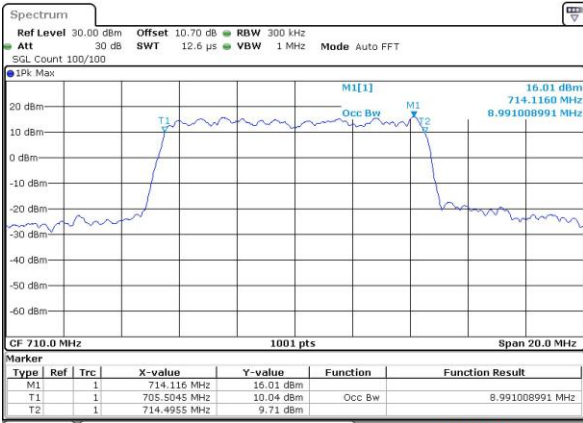
Date: 5 NOV 2018 15:47:18

Lowest Channel / 10MHz / 16QAM



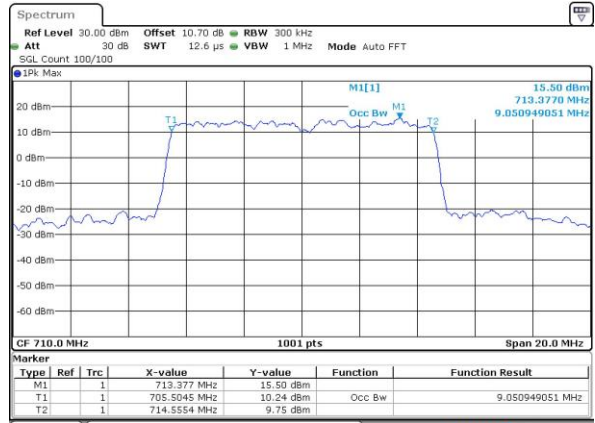
Date: 5 NOV 2018 15:47:29

Middle Channel / 10MHz / QPSK



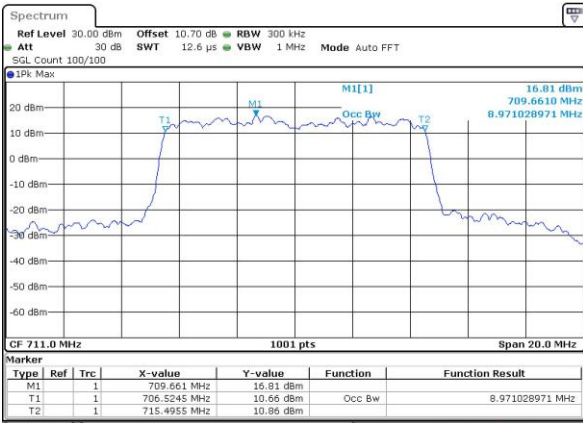
Date: 5 NOV 2018 15:53:24

Middle Channel / 10MHz / 16QAM



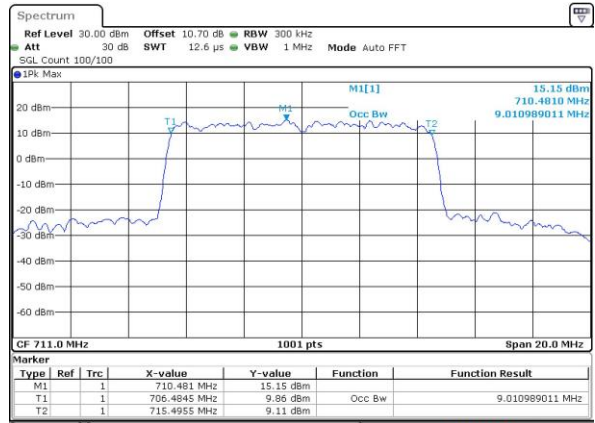
Date: 5 NOV 2018 15:53:35

Highest Channel / 10MHz / QPSK



Date: 5 NOV 2018 15:55:30

Highest Channel / 10MHz / 16QAM

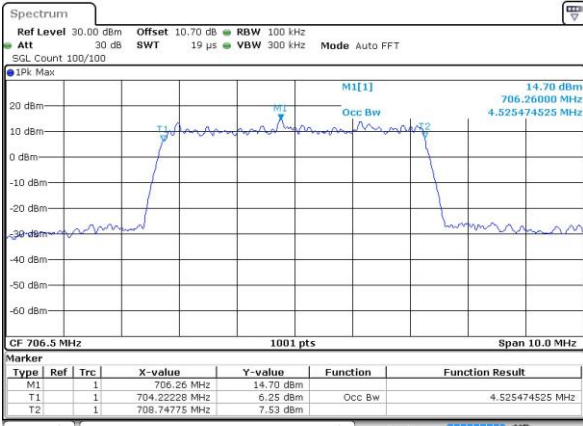


Date: 5 NOV 2018 15:55:41



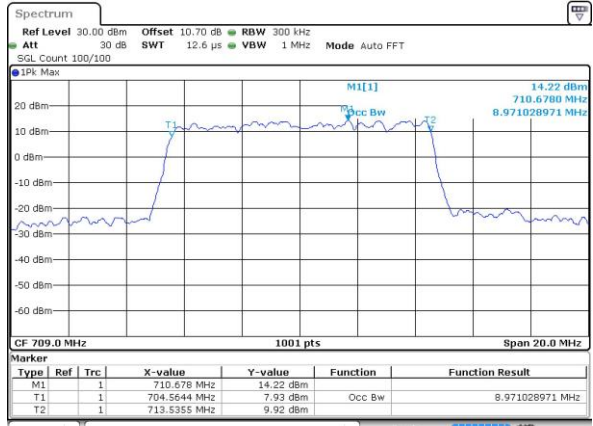
LTE Band 17

Lowest Channel / 5MHz / 64QAM



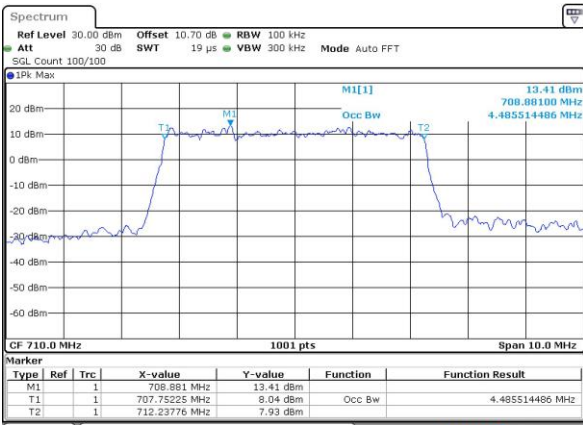
Date: 5 NOV 2018 16:01:36

Lowest Channel / 10MHz / 64QAM



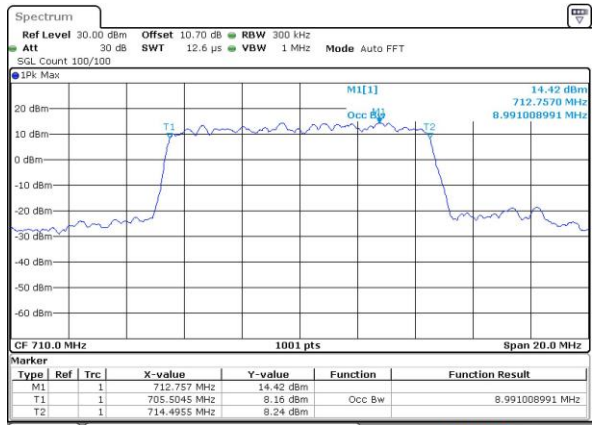
Date: 5 NOV 2018 16:08:45

Middle Channel / 5MHz / 64QAM



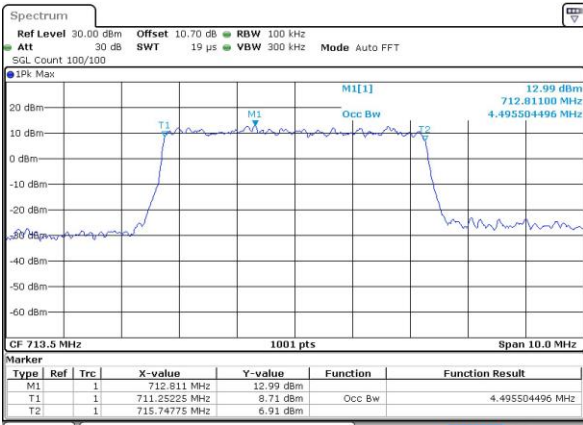
Date: 5 NOV 2018 16:04:39

Middle Channel / 10MHz / 64QAM



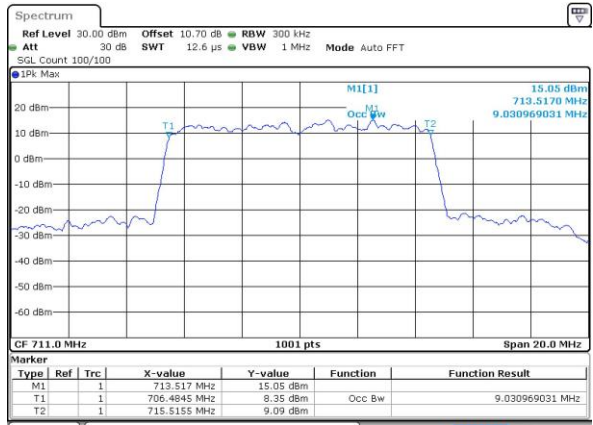
Date: 5 NOV 2018 16:11:48

Highest Channel / 5MHz / 64QAM



Date: 5 NOV 2018 16:05:42

Highest Channel / 10MHz / 64QAM



Date: 5 NOV 2018 16:12:51

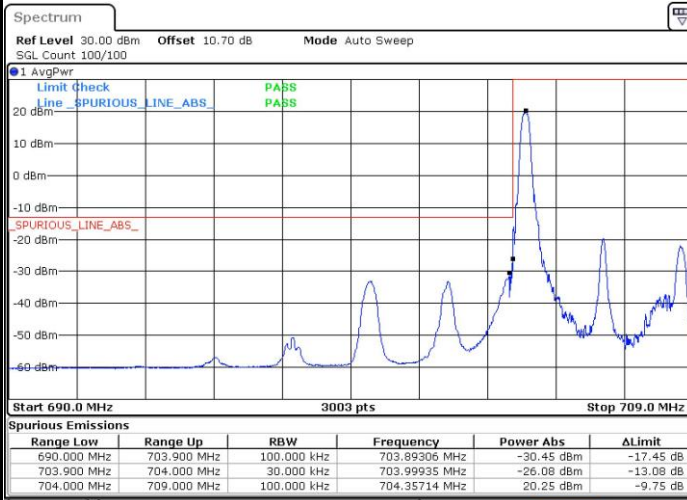


Conducted Band Edge



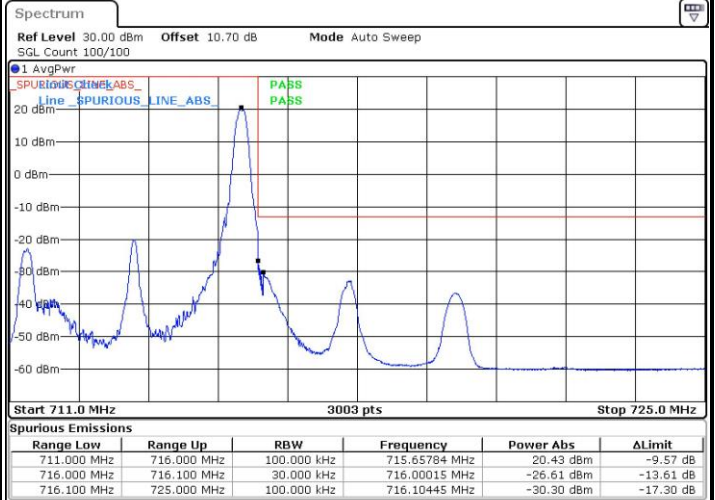
LTE Band 17 / 5MHz / QPSK

Lowest Band Edge / 1 RB



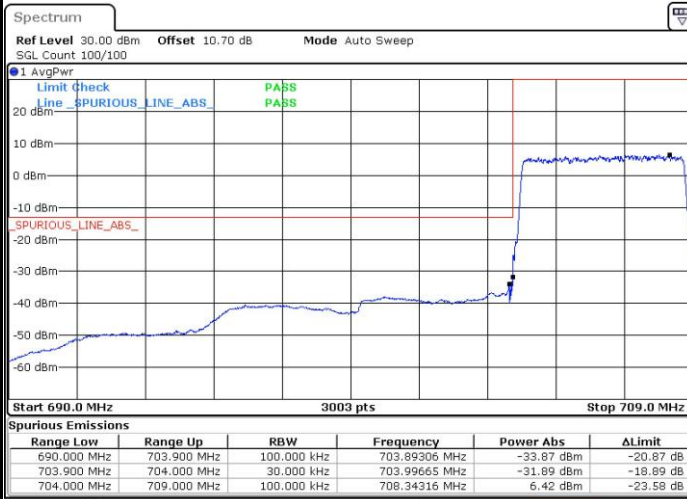
Date: 5 NOV.2018 15:34:33

Highest Band Edge / 1 RB



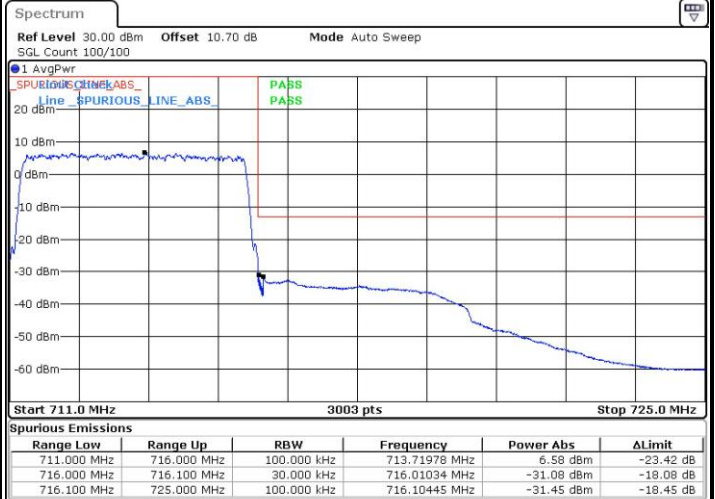
Date: 5 NOV.2018 15:42:46

Lowest Band Edge / Full RB



Date: 5 NOV.2018 15:36:33

Highest Band Edge / Full RB

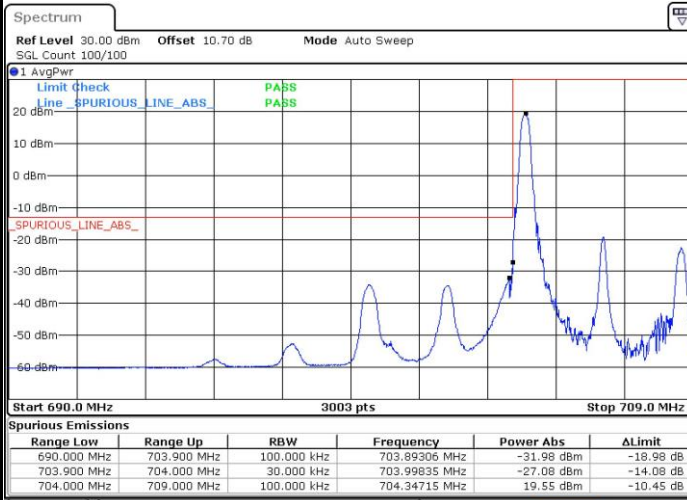


Date: 5 NOV.2018 15:44:46



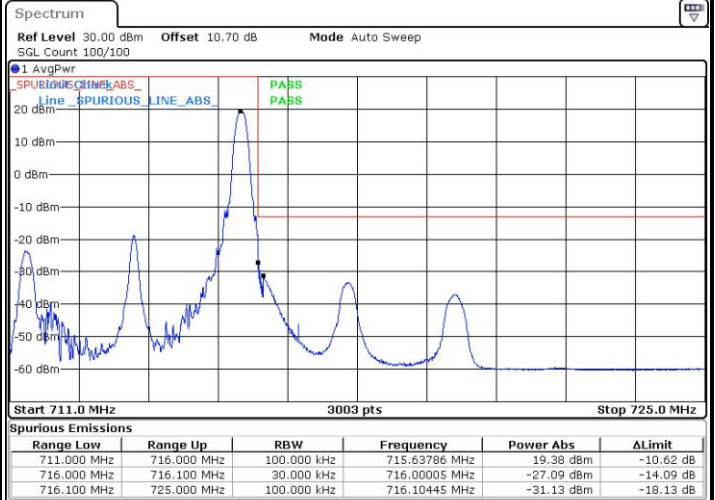
LTE Band 17 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



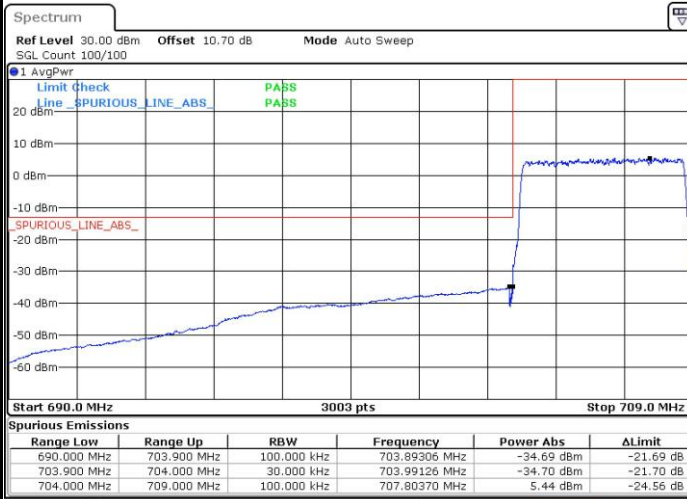
Date: 5 NOV.2018 15:35:33

Highest Band Edge / 1 RB



Date: 5 NOV.2018 15:43:46

Lowest Band Edge / Full RB



Date: 5 NOV.2018 15:37:33

Highest Band Edge / Full RB

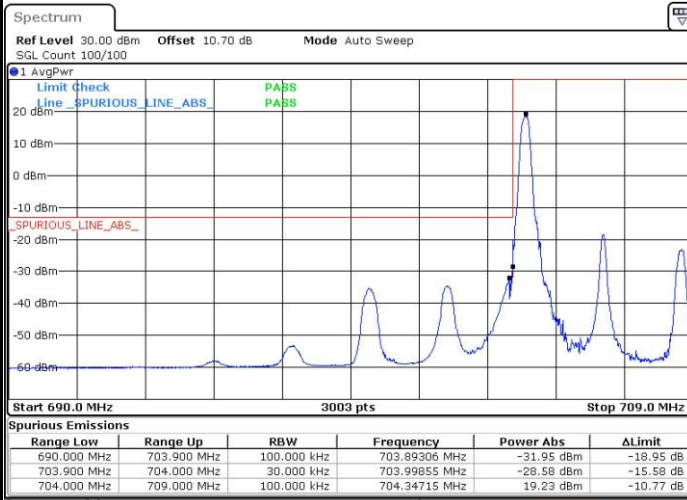


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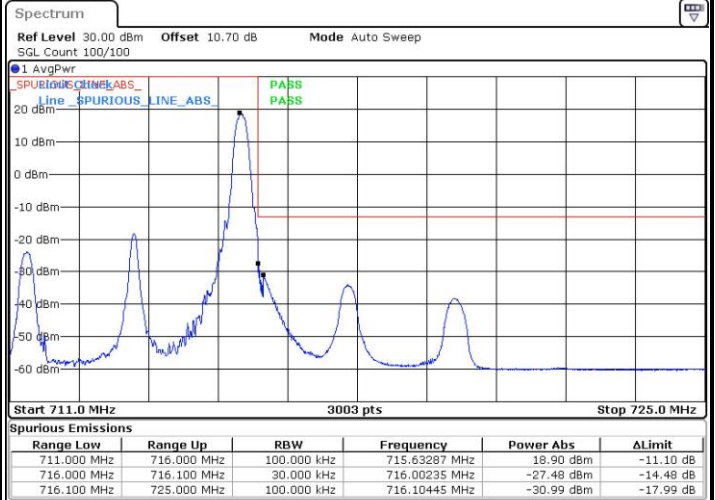
LTE Band 17 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



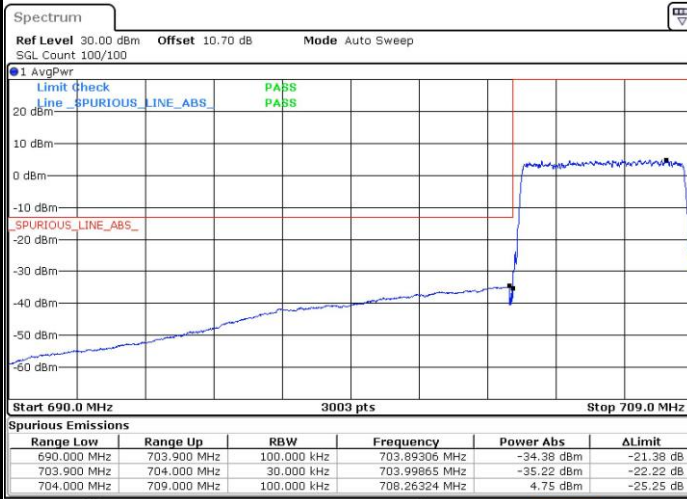
Date: 5 NOV. 2018 16:02:47

Highest Band Edge / 1 RB



Date: 5 NOV. 2018 16:06:53

Lowest Band Edge / Full RB



Date: 5 NOV. 2018 16:03:47

Highest Band Edge / Full RB



Date: 5 NOV. 2018 16:07:53