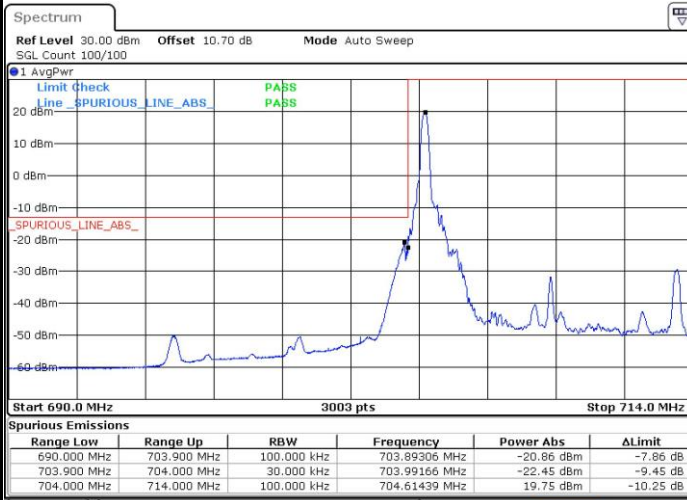




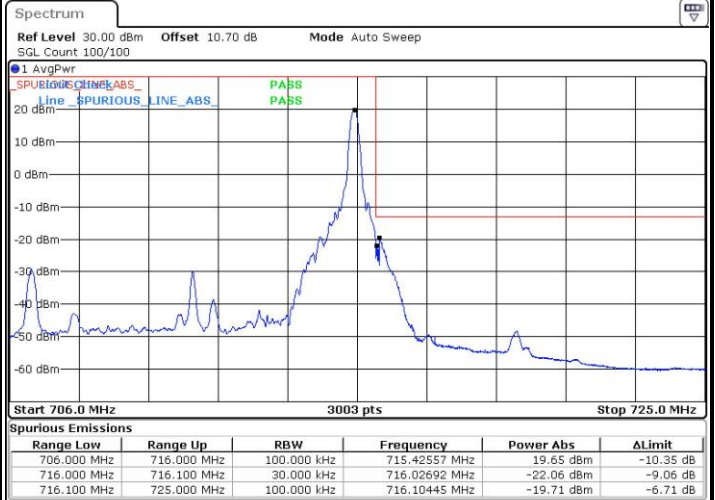
LTE Band 17 / 10MHz / QPSK

Lowest Band Edge / 1 RB



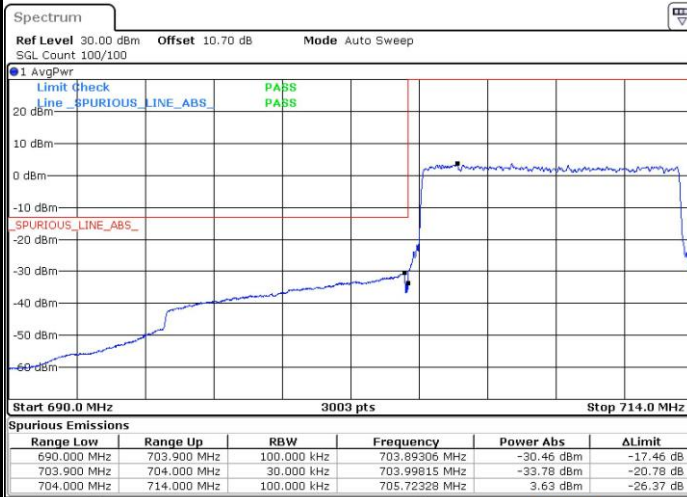
Date: 5 SEP.2018 00:33:45

Highest Band Edge / 1 RB



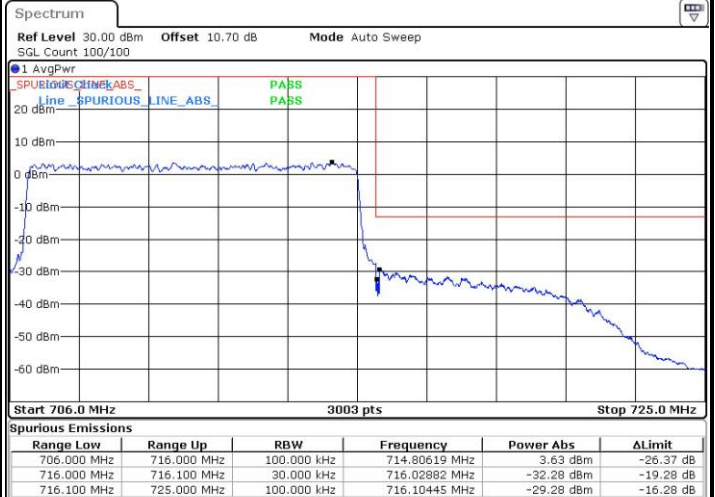
Date: 5 SEP.2018 00:43:18

Lowest Band Edge / Full RB



Date: 5 SEP.2018 00:36:05

Highest Band Edge / Full RB

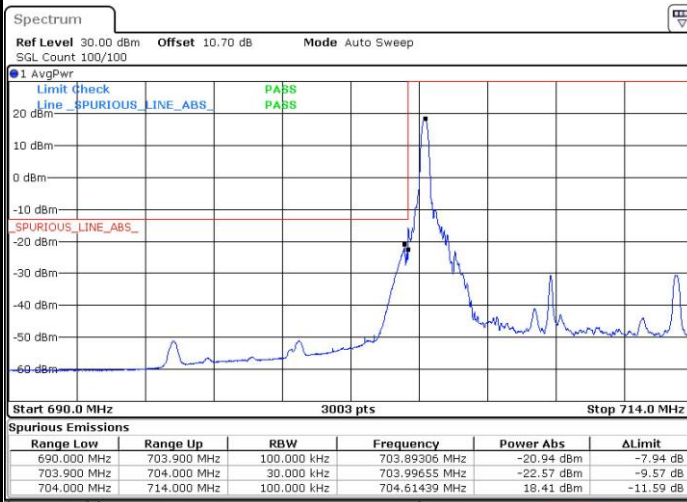


Date: 5 SEP.2018 00:45:38



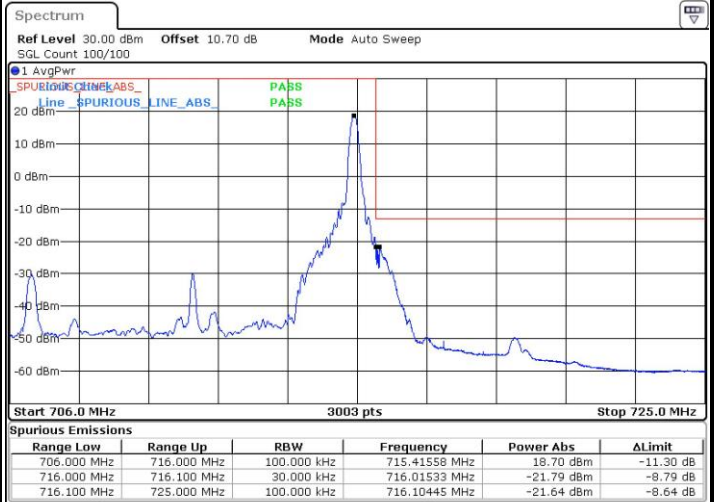
LTE Band 17 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



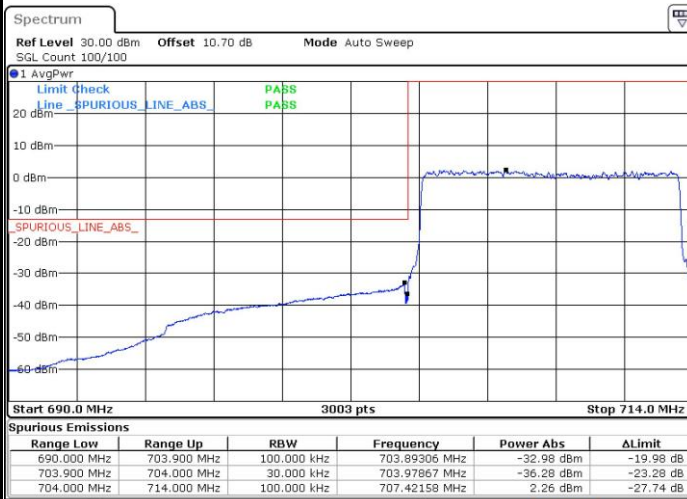
Date: 5 SEP.2018 00:34:55

Highest Band Edge / 1 RB



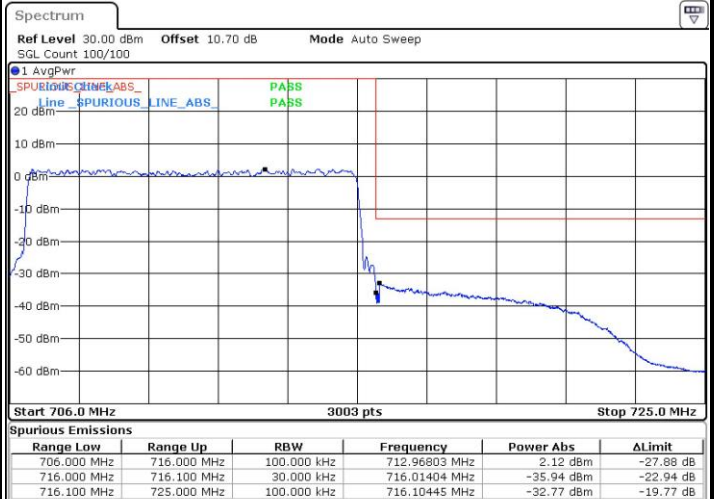
Date: 5 SEP.2018 00:44:28

Lowest Band Edge / Full RB



Date: 5 SEP.2018 00:37:15

Highest Band Edge / Full RB

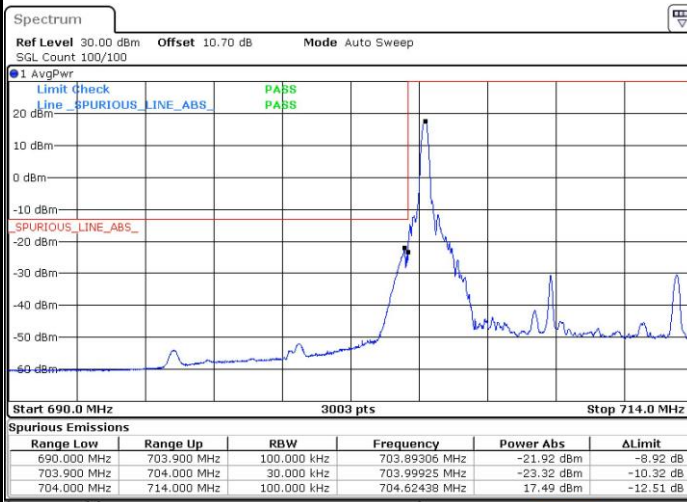


Date: 5 SEP.2018 00:46:48



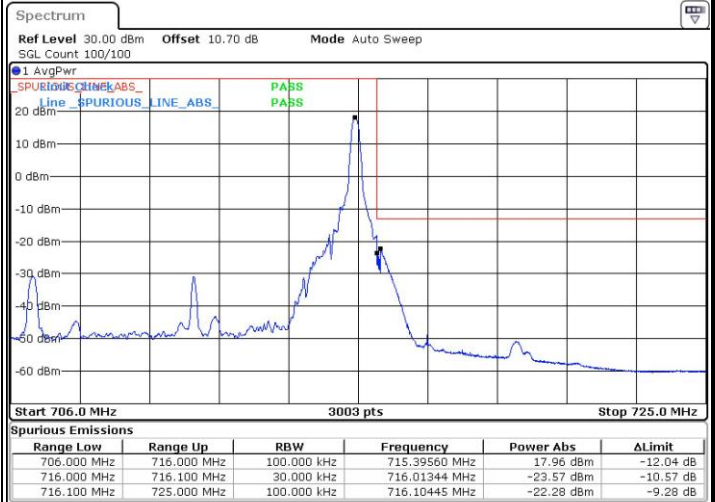
LTE Band 17 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



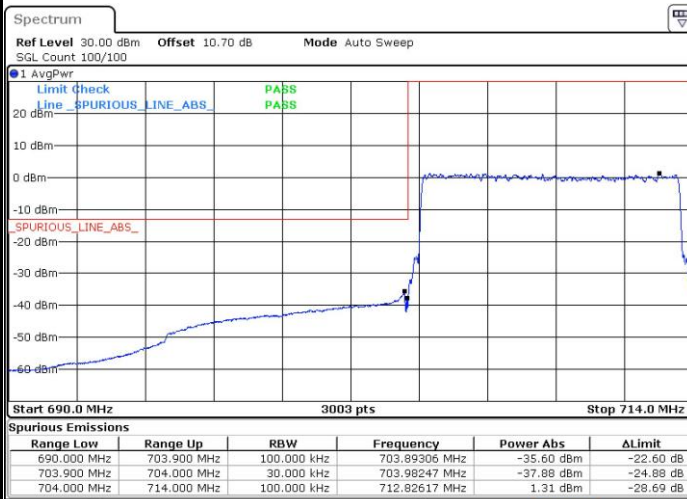
Date: 5 SEP.2018 00:58:20

Highest Band Edge / 1 RB



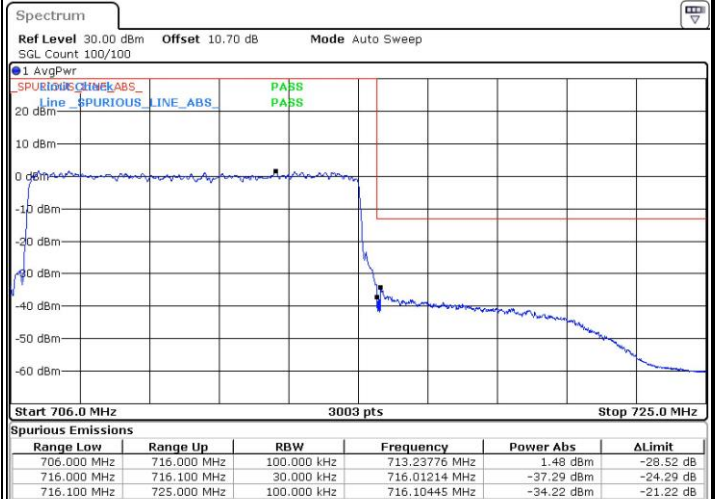
Date: 5 SEP.2018 01:03:06

Lowest Band Edge / Full RB



Date: 5 SEP.2018 00:59:30

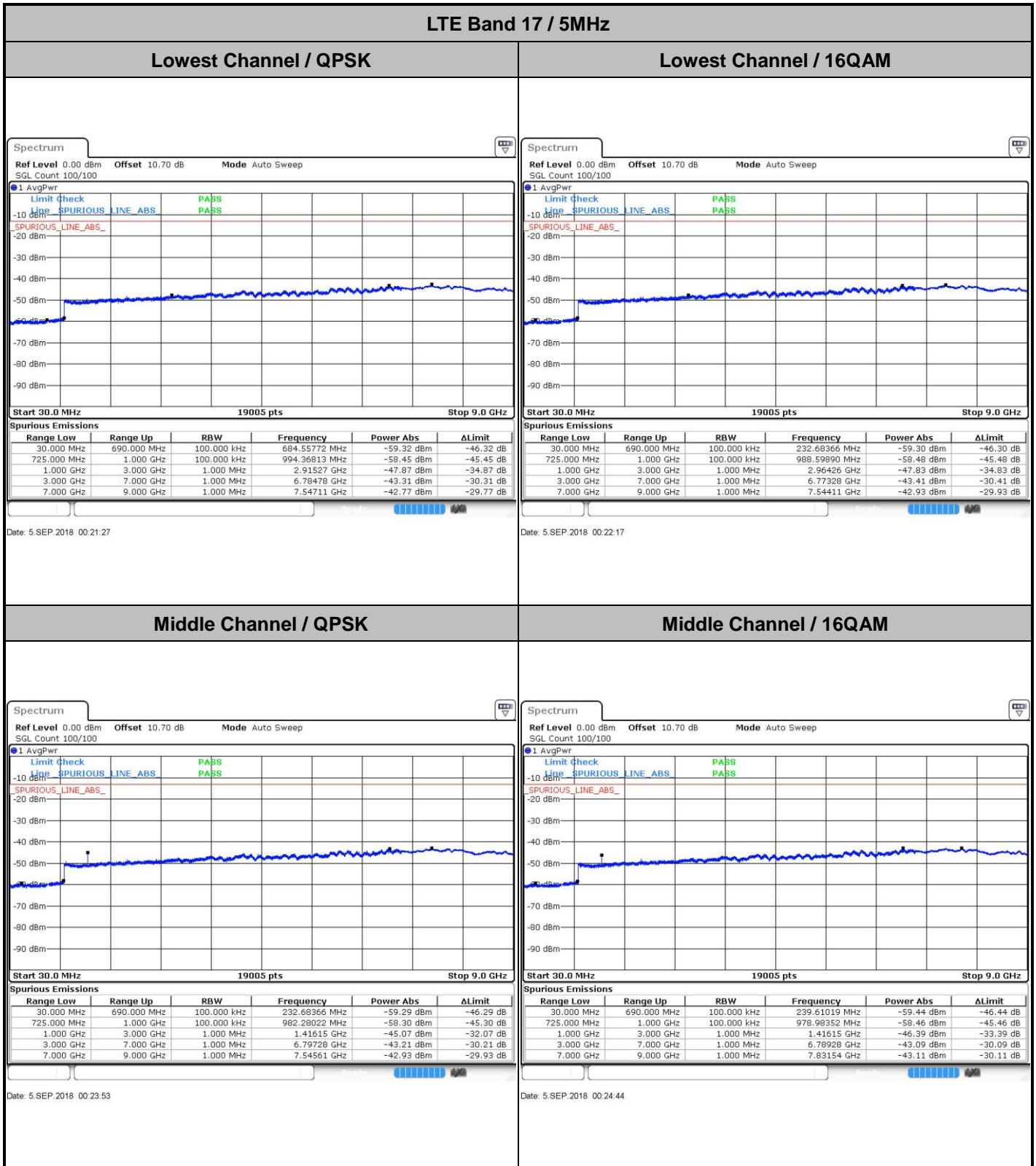
Highest Band Edge / Full RB



Date: 5 SEP.2018 01:04:16



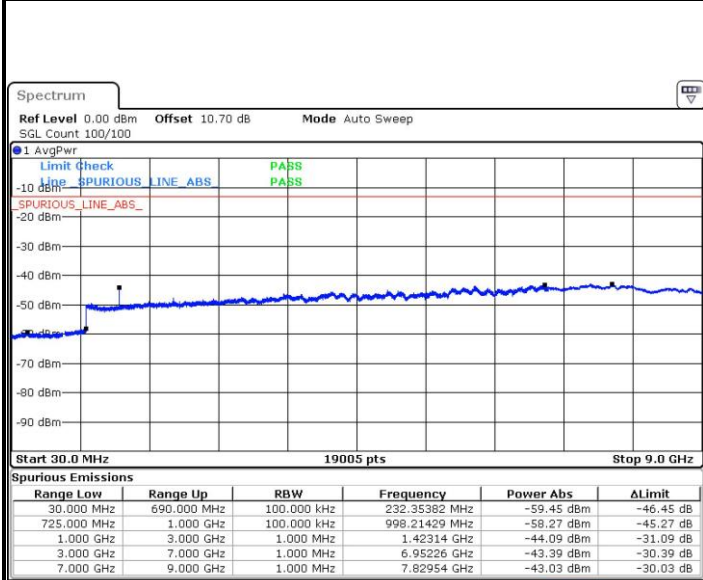
# Conducted Spurious Emission





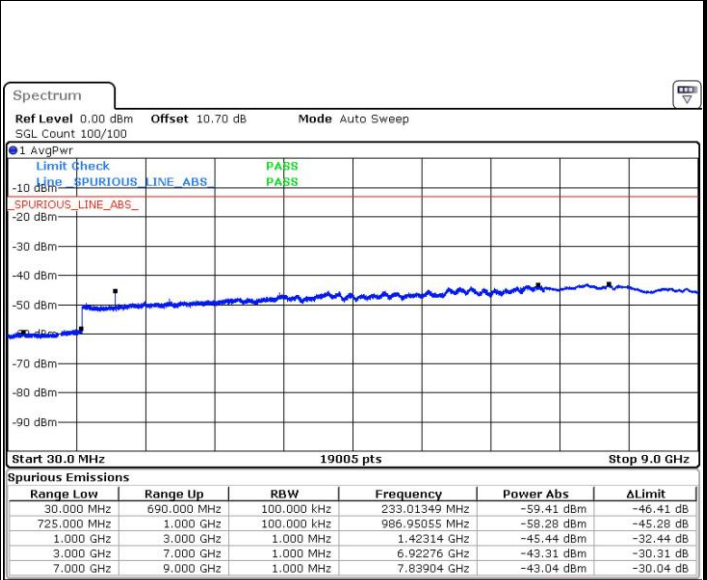
LTE Band 17 / 5MHz

Highest Channel / QPSK



Date: 5.SEP.2018 00:31:00

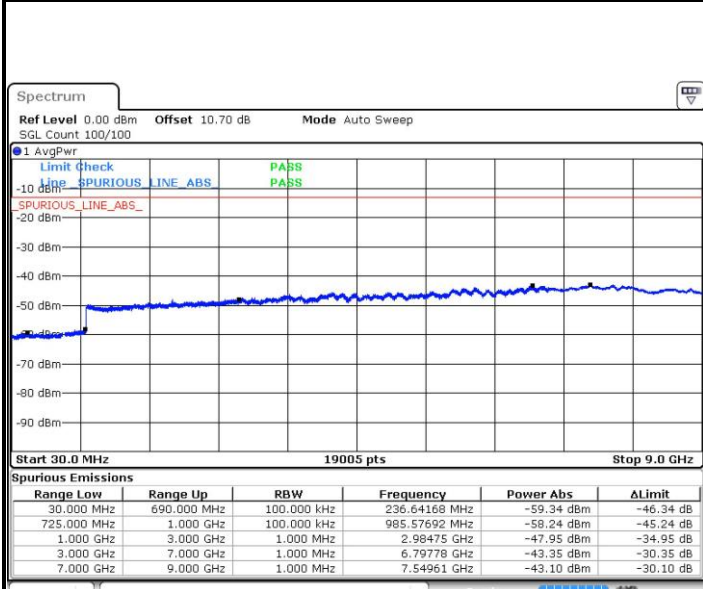
Highest Channel / 16QAM



Date: 5.SEP.2018 00:31:50

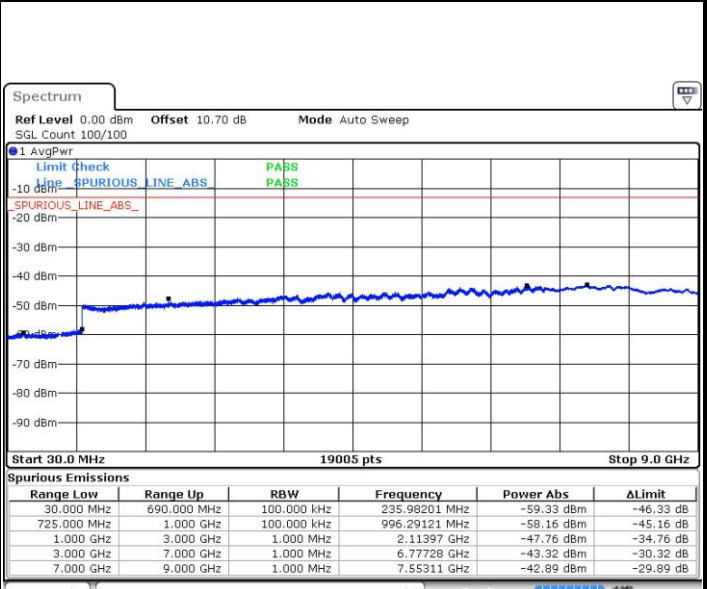
LTE Band 17 / 10MHz

Lowest Channel / QPSK



Date: 5.SEP.2018 00:38:06

Lowest Channel / 16QAM



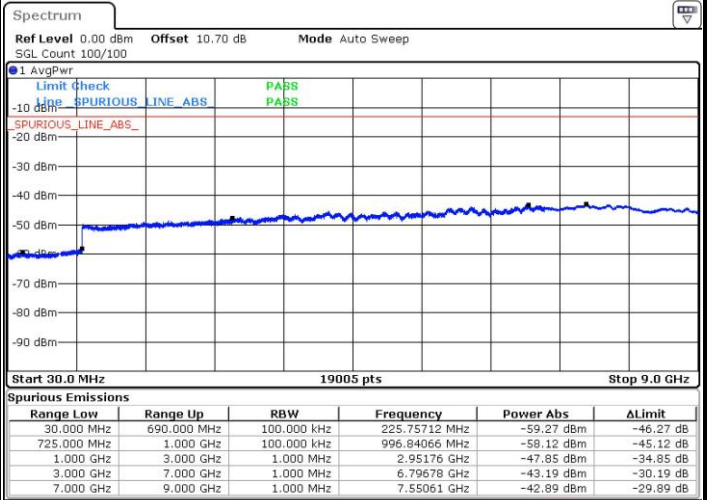
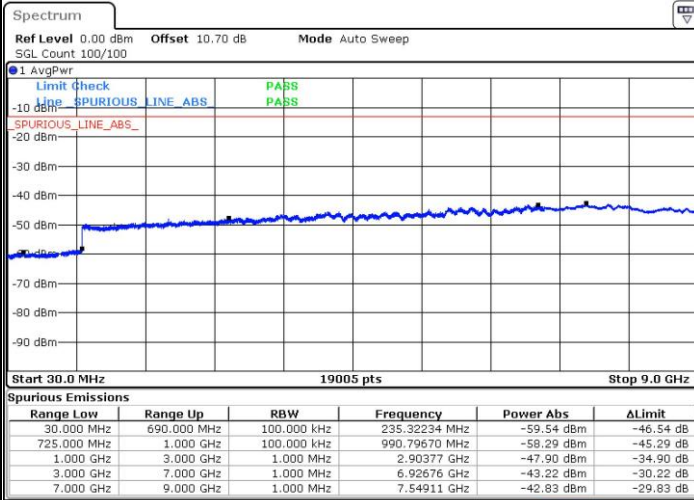
Date: 5.SEP.2018 00:38:56



LTE Band 17 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

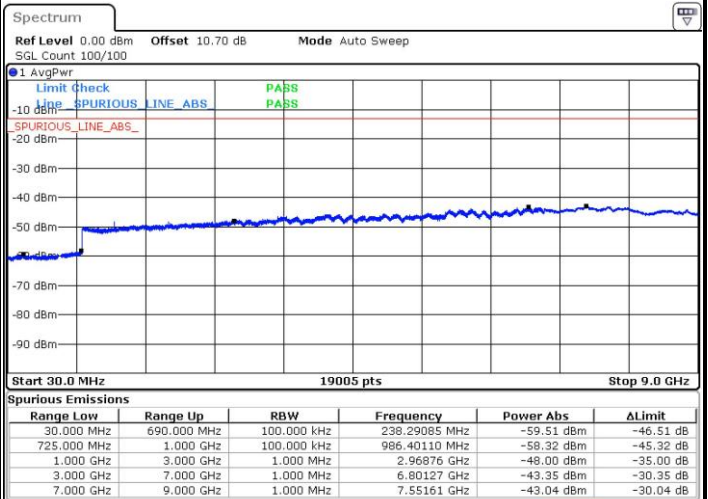
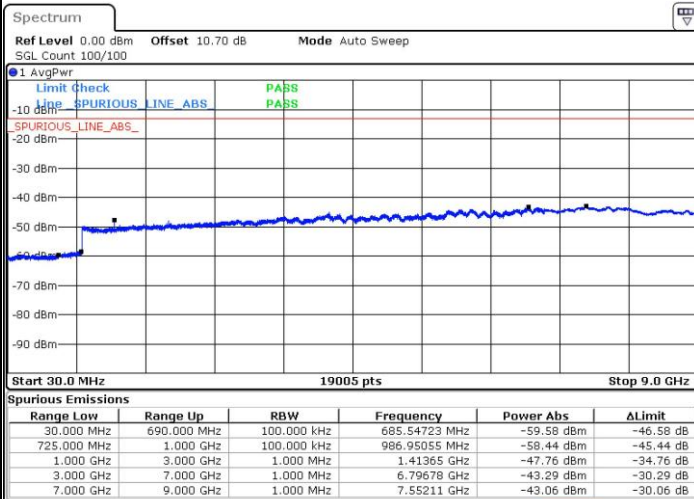


Date: 5.SEP.2018 00:40:32

Date: 5.SEP.2018 00:41:22

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 5.SEP.2018 00:47:38

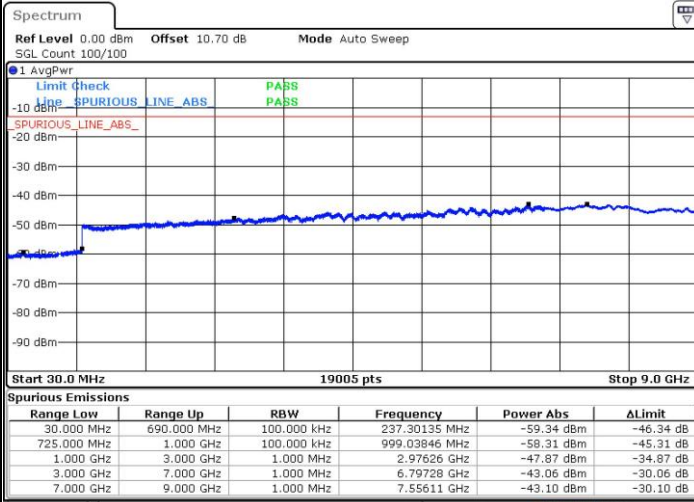
Date: 5.SEP.2018 00:48:29



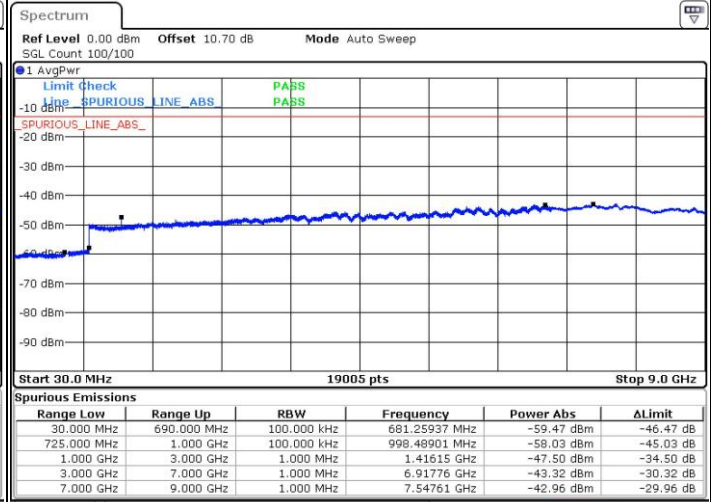
LTE Band 17 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

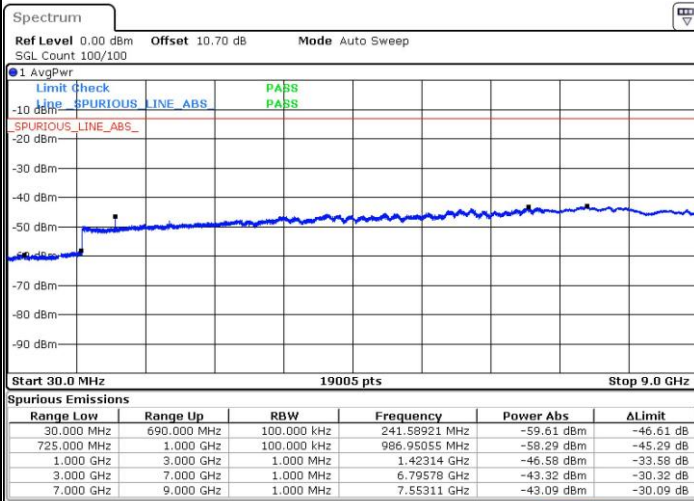


Date: 5.SEP.2018 00:52:02



Date: 5.SEP.2018 00:53:15

Highest Channel / 64QAM

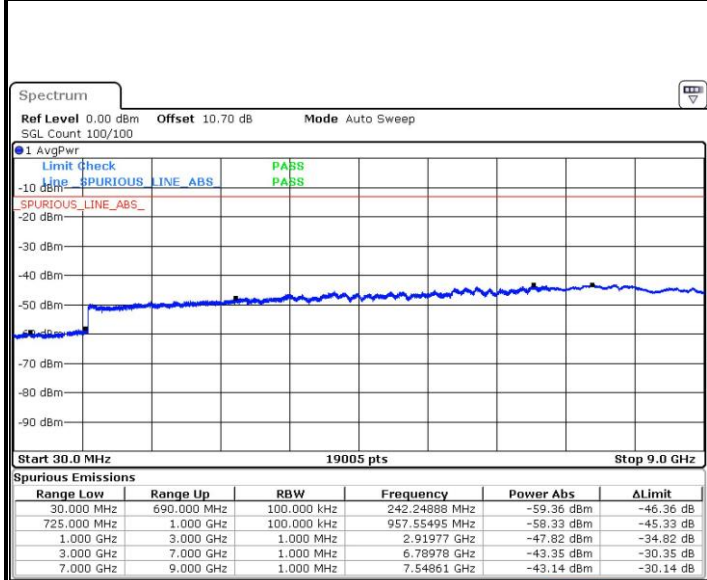


Date: 5.SEP.2018 00:56:48



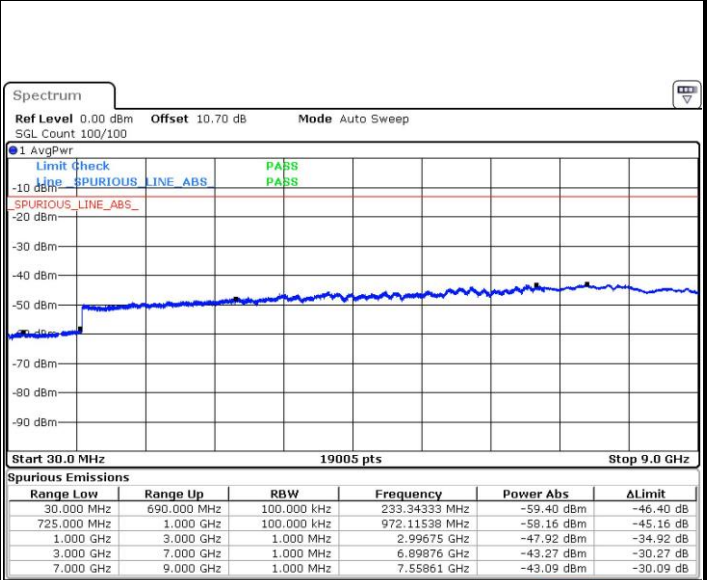
**LTE Band 17 / 10MHz**

**Lowest Channel / 64QAM**



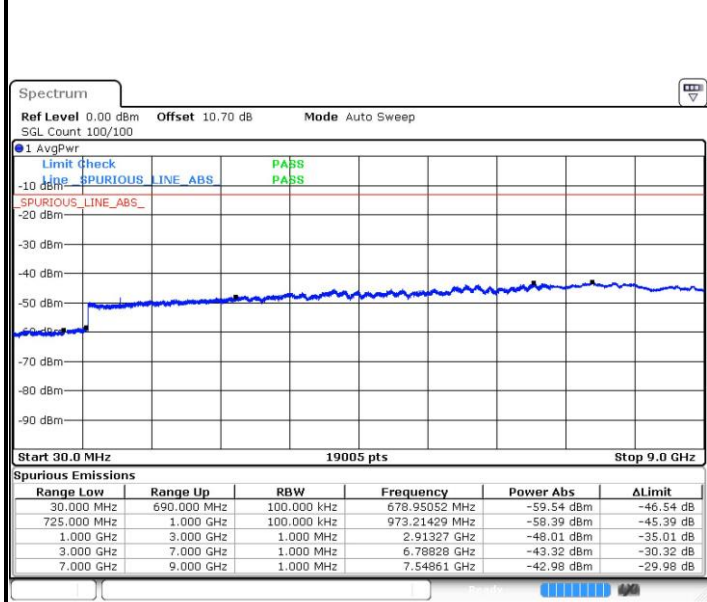
Date: 5.SEP.2018 01:00:21

**Middle Channel / 64QAM**



Date: 5.SEP.2018 01:01:34

**Highest Channel / 64QAM**



Date: 5.SEP.2018 01:05:07





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	0.0024	PASS
40	Normal Voltage	0.0013	
30	Normal Voltage	0.0000	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0028	
0	Normal Voltage	0.0062	
-10	Normal Voltage	0.0008	
-20	Normal Voltage	0.0000	
-30	Normal Voltage	0.0073	
20	Maximum Voltage	0.0096	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0008	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 38

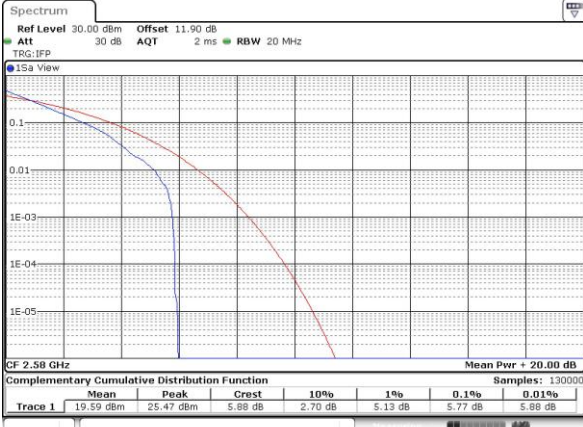
## Peak-to-Average Ratio

Mode	LTE Band 38 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	5.77	5.71	6.61	6.61	<b>PASS</b>
Middle CH	5.22	5.74	6.64	6.58	
Highest CH	5.04	5.65	5.97	6.52	
Mode	LTE Band 38 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.81	6.81	-	-	<b>PASS</b>
Middle CH	6.43	6.72	-	-	
Highest CH	6.38	6.67	-	-	



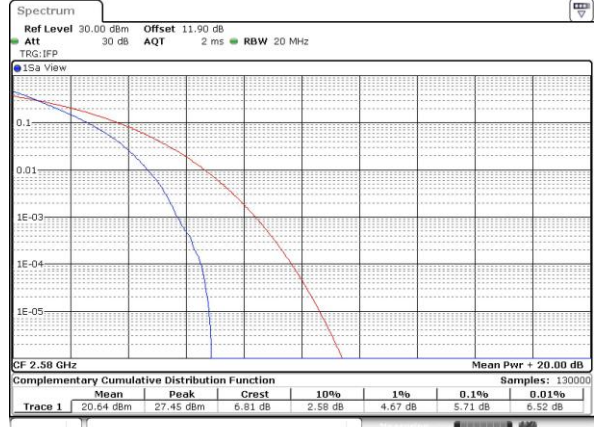
LTE Band 38 / 20MHz / QPSK

Lowest Channel / 1RB



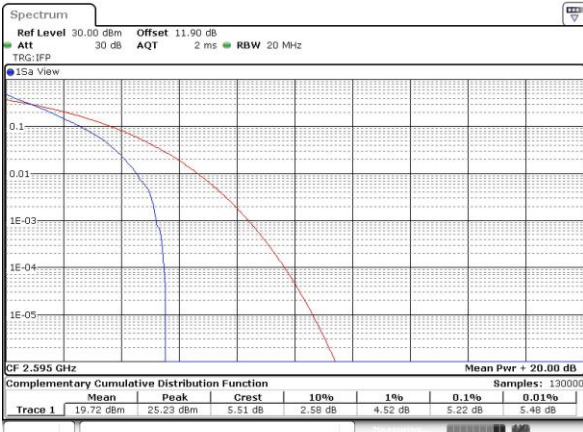
Date: 4 SEP 2018 14:34:51

Lowest Channel / Full RB



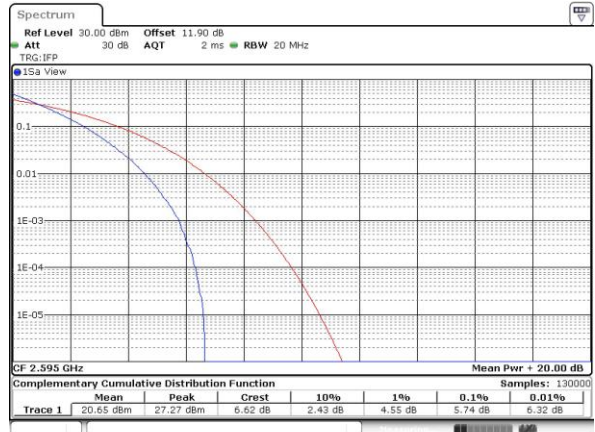
Date: 4 SEP 2018 14:35:24

Middle Channel / 1RB



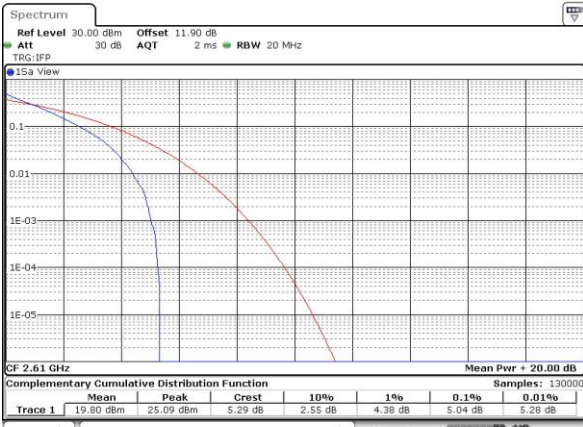
Date: 4 SEP 2018 14:35:50

Middle Channel / Full RB



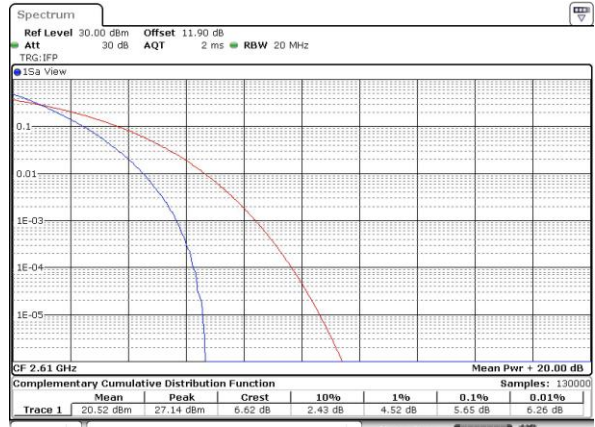
Date: 4 SEP 2018 14:36:05

Highest Channel / 1RB



Date: 4 SEP 2018 14:39:20

Highest Channel / Full RB



Date: 4 SEP 2018 14:40:14



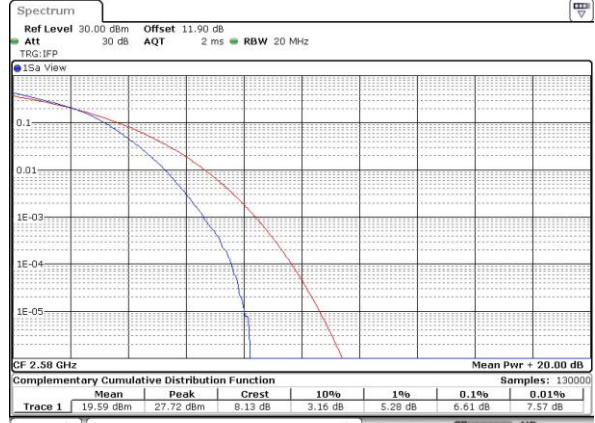
LTE Band 38 / 20MHz / 16QAM

Lowest Channel / 1RB



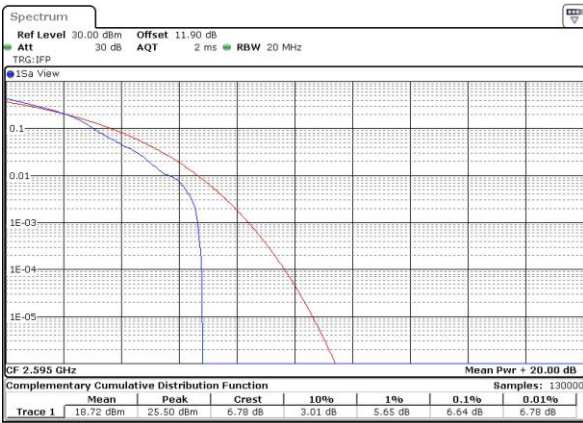
Date: 4 SEP 2018 14:30:22

Lowest Channel / Full RB



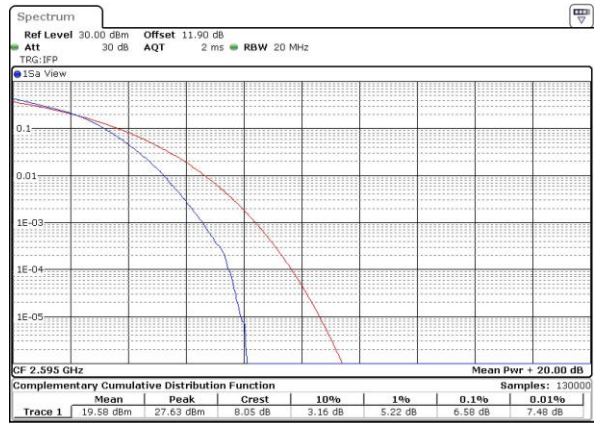
Date: 4 SEP 2018 14:30:42

Middle Channel / 1RB



Date: 4 SEP 2018 14:31:00

Middle Channel / Full RB



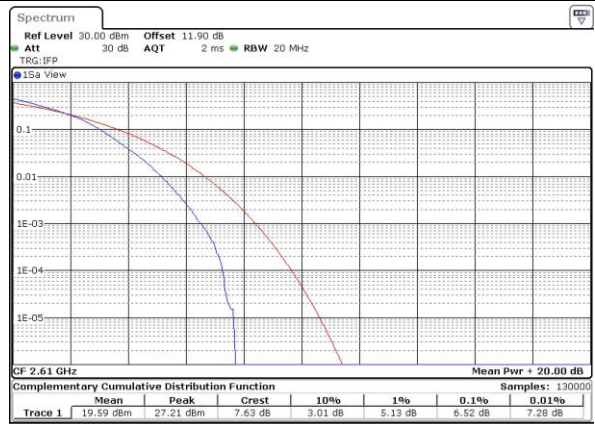
Date: 4 SEP 2018 14:31:16

Highest Channel / 1RB



Date: 4 SEP 2018 14:31:38

Highest Channel / Full RB

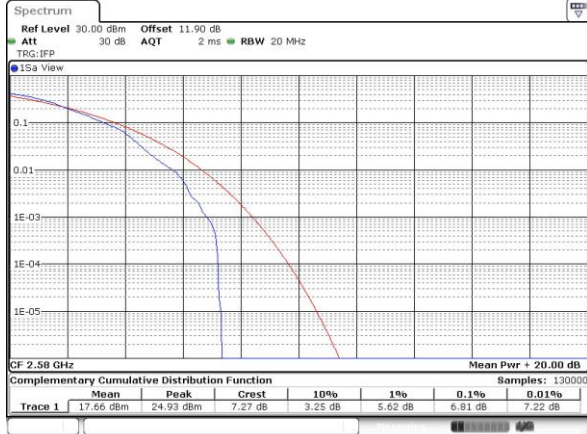


Date: 4 SEP 2018 14:34:32



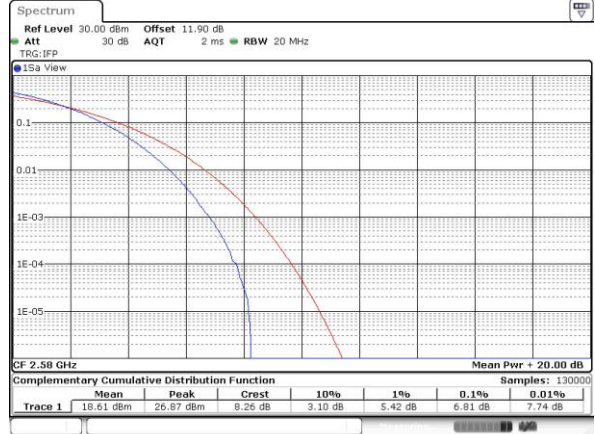
LTE Band 38 / 20MHz / 64QAM

Lowest Channel / 1RB



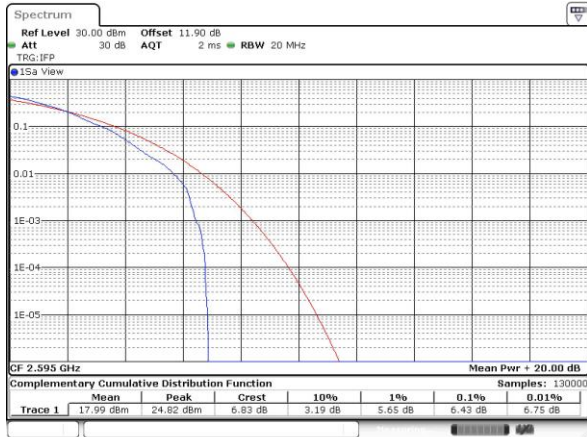
Date: 4 SEP 2018 14:48:15

Lowest Channel / Full RB



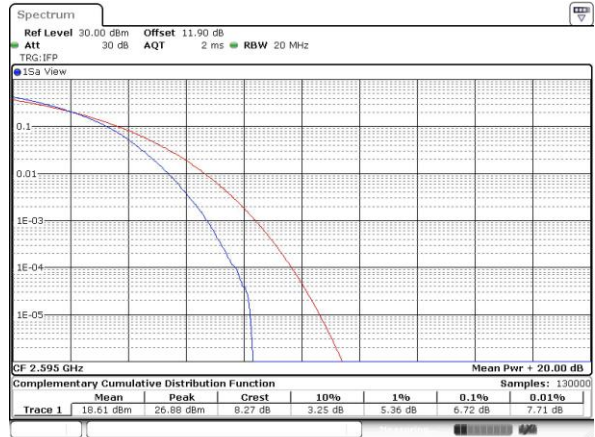
Date: 4 SEP 2018 14:48:47

Middle Channel / 1RB



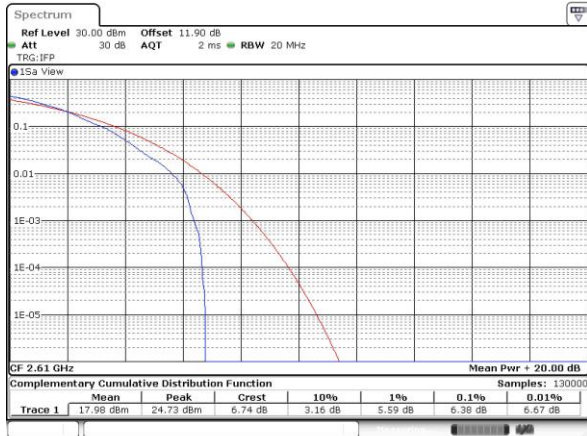
Date: 4 SEP 2018 14:49:12

Middle Channel / Full RB



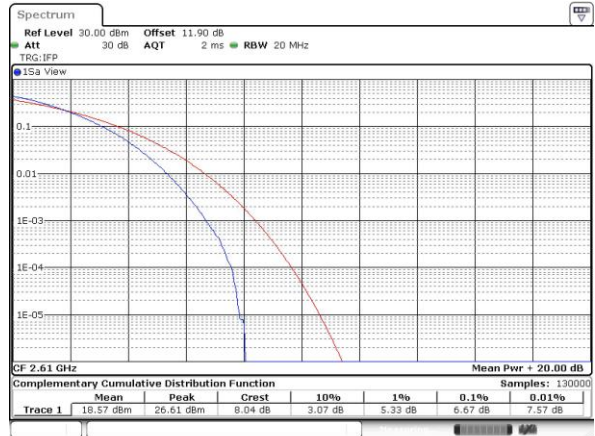
Date: 4 SEP 2018 14:49:30

Highest Channel / 1RB



Date: 4 SEP 2018 14:49:46

Highest Channel / Full RB



Date: 4 SEP 2018 14:50:06



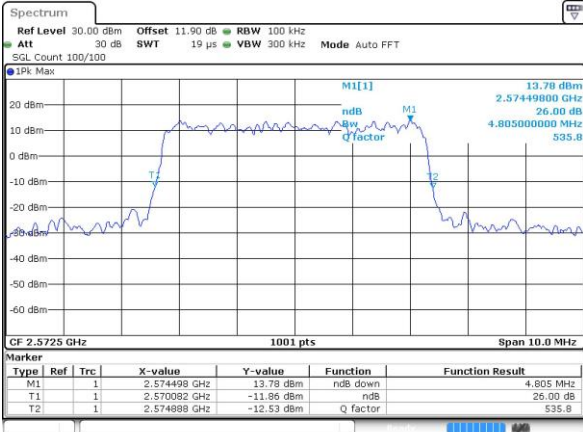
**26dB Bandwidth**

Mode	LTE Band 38 : 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	-	-	-	-	4.81	4.75	9.65	9.77	14.18	14.30	19.98	20.10
Middle CH	-	-	-	-	4.90	4.86	9.63	9.71	14.48	14.33	20.14	20.14
Highest CH	-	-	-	-	4.80	4.72	9.63	9.69	14.33	14.12	20.18	20.10
Mode	LTE Band 38 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.77	-	9.89	-	14.21	-	20.18	-
Middle CH	-	-	-	-	4.83	-	9.69	-	14.39	-	20.06	-
Highest CH	-	-	-	-	4.93	-	9.81	-	14.21	-	20.18	-



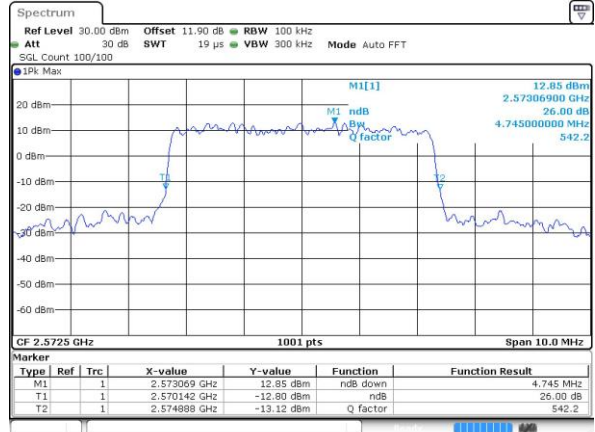
LTE Band 38

Lowest Channel / 5MHz / QPSK



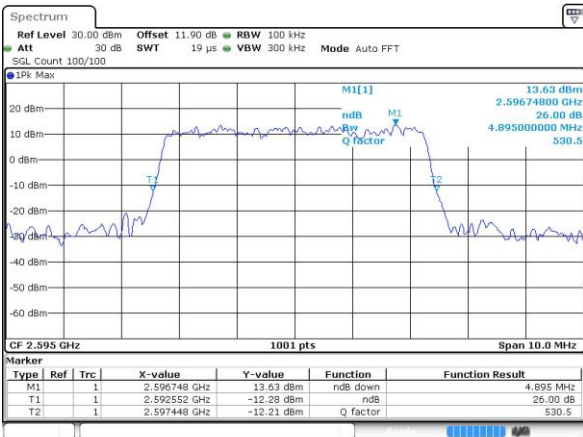
Date: 4 SEP 2018 14:19:23

Lowest Channel / 5MHz / 16QAM



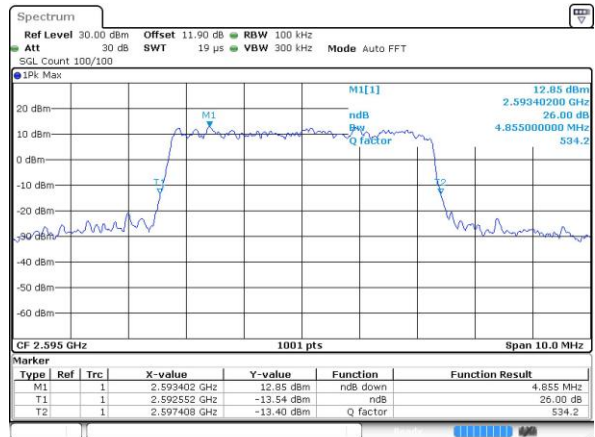
Date: 4 SEP 2018 14:19:35

Middle Channel / 5MHz / QPSK



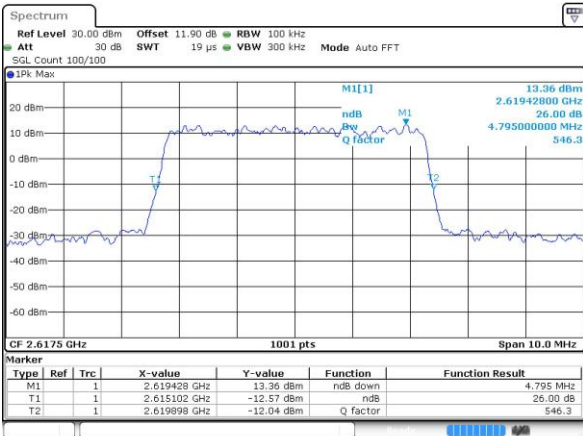
Date: 4 SEP 2018 14:20:09

Middle Channel / 5MHz / 16QAM



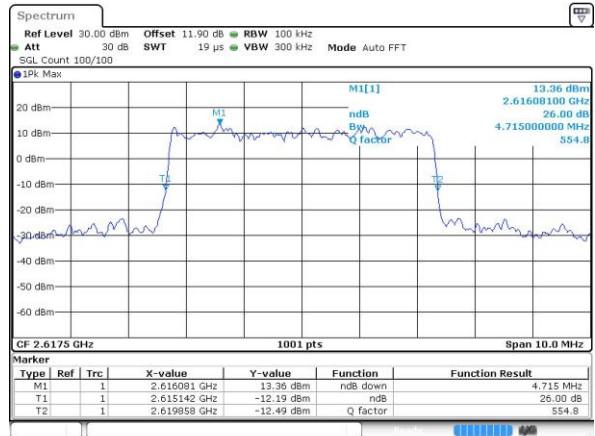
Date: 4 SEP 2018 14:20:21

Highest Channel / 5MHz / QPSK



Date: 4 SEP 2018 14:20:55

Highest Channel / 5MHz / 16QAM

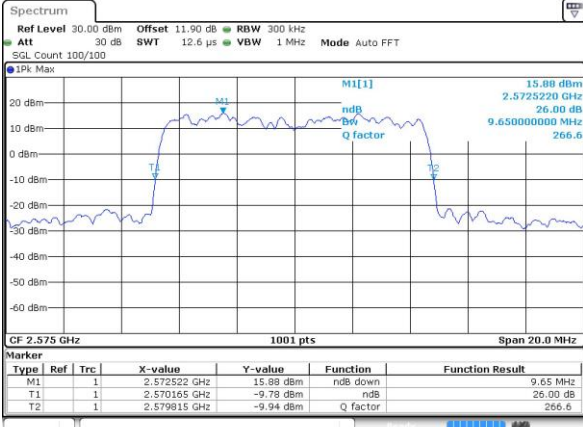


Date: 4 SEP 2018 14:21:06



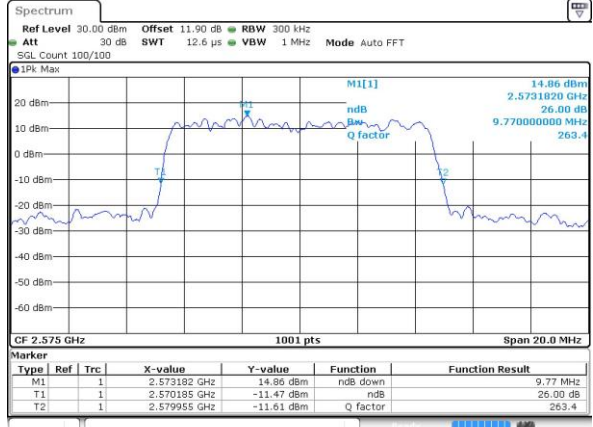
LTE Band 38

Lowest Channel / 10MHz / QPSK



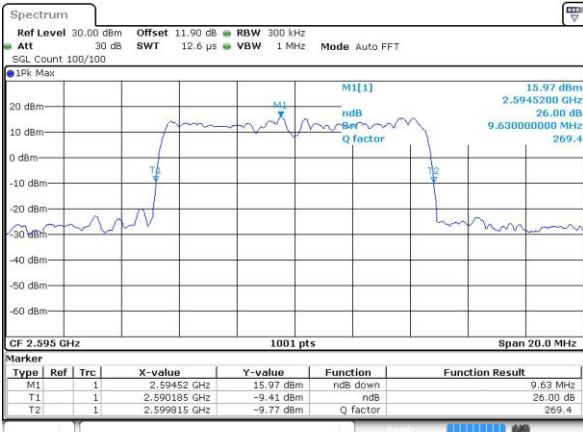
Date: 4 SEP 2018 14:21:41

Lowest Channel / 10MHz / 16QAM



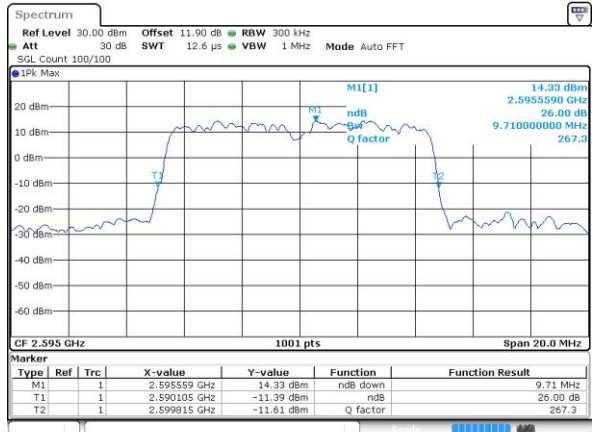
Date: 4 SEP 2018 14:21:52

Middle Channel / 10MHz / QPSK



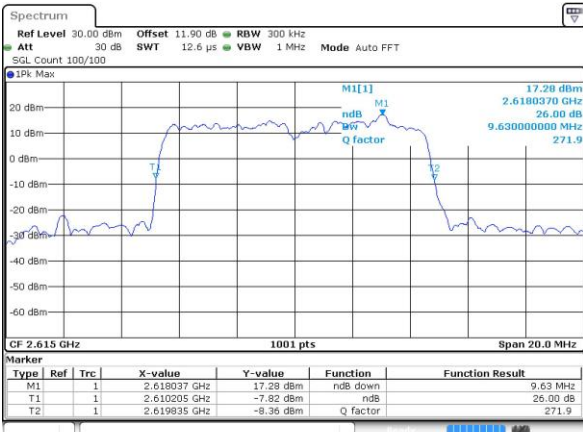
Date: 4 SEP 2018 14:22:26

Middle Channel / 10MHz / 16QAM



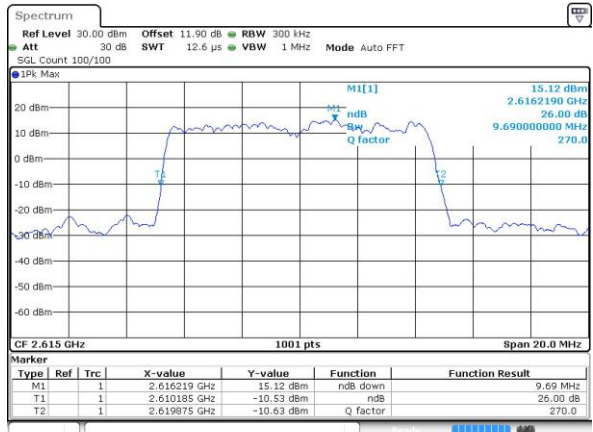
Date: 4 SEP 2018 14:22:37

Highest Channel / 10MHz / QPSK



Date: 4 SEP 2018 14:23:12

Highest Channel / 10MHz / 16QAM



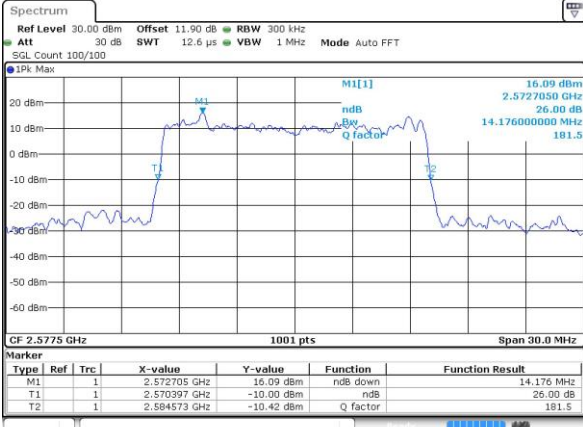
Date: 4 SEP 2018 14:23:23





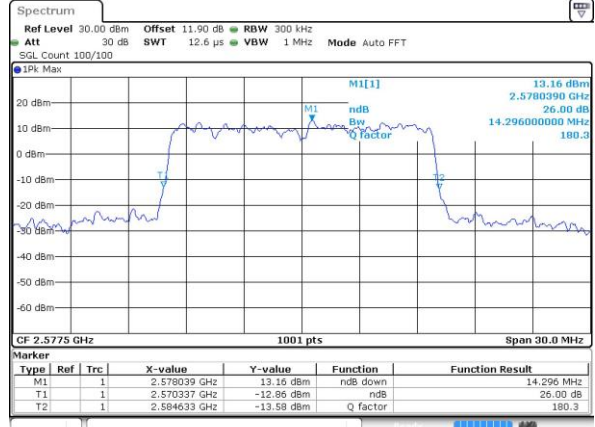
LTE Band 38

Lowest Channel / 15MHz / QPSK



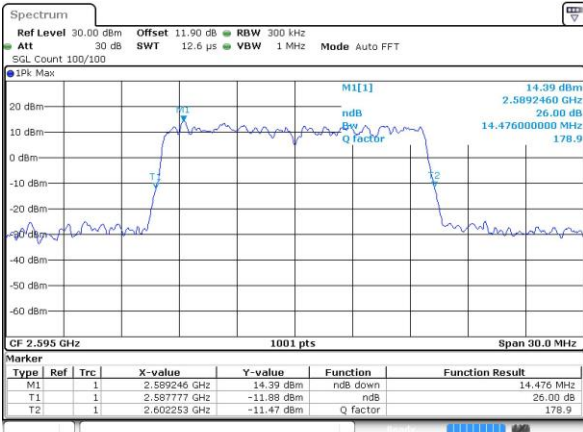
Date: 4 SEP 2018 14:23:57

Lowest Channel / 15MHz / 16QAM



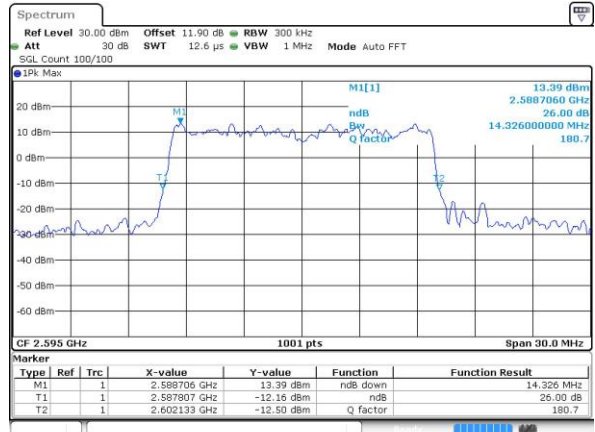
Date: 4 SEP 2018 14:24:09

Middle Channel / 15MHz / QPSK



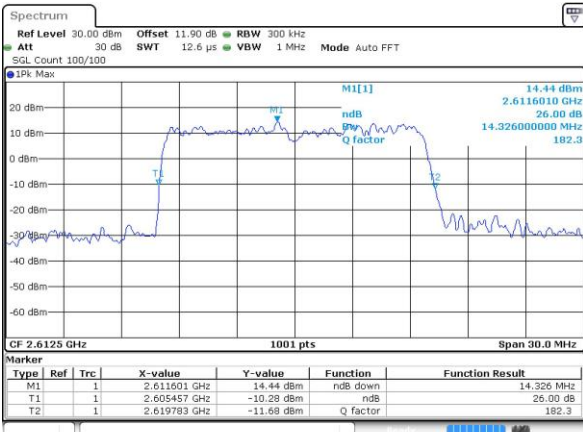
Date: 4 SEP 2018 14:24:43

Middle Channel / 15MHz / 16QAM



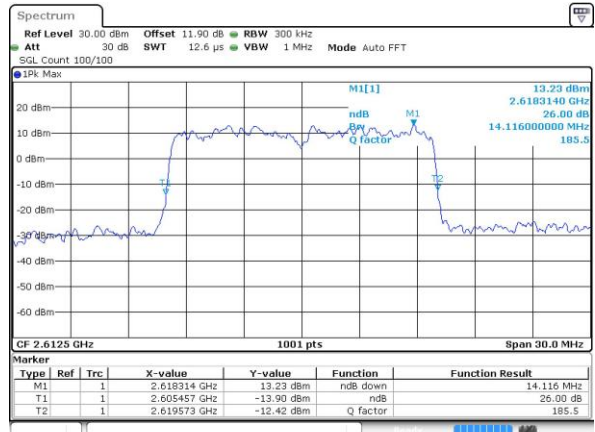
Date: 4 SEP 2018 14:24:55

Highest Channel / 15MHz / QPSK



Date: 4 SEP 2018 14:25:29

Highest Channel / 15MHz / 16QAM

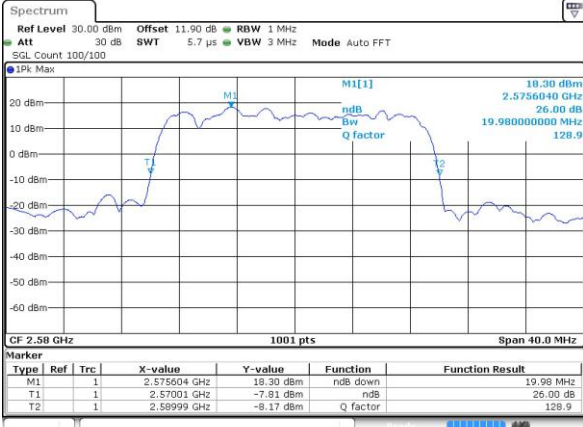


Date: 4 SEP 2018 14:25:40



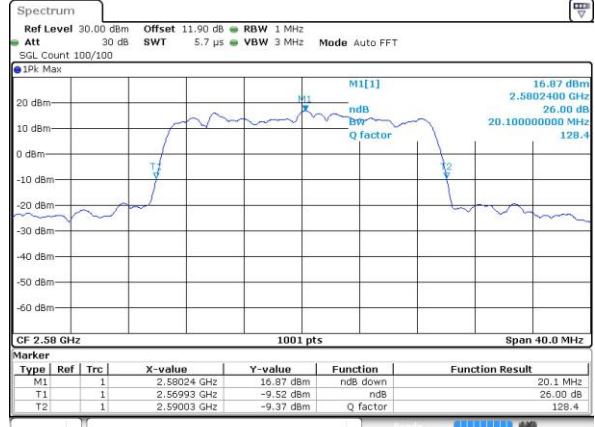
LTE Band 38

Lowest Channel / 20MHz / QPSK



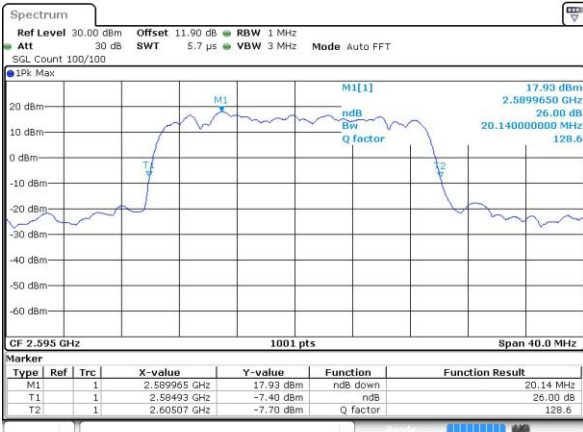
Date: 4 SEP 2018 14:26:15

Lowest Channel / 20MHz / 16QAM



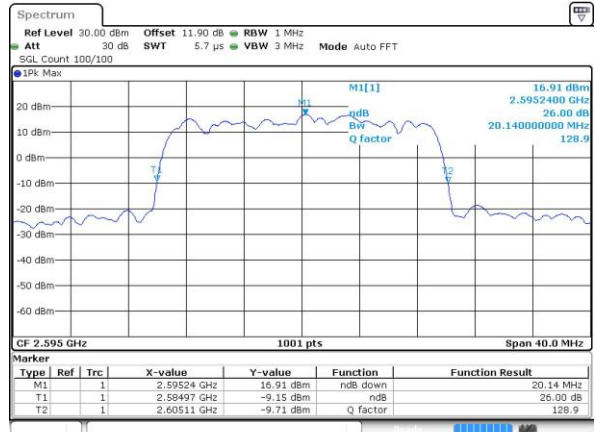
Date: 4 SEP 2018 14:26:26

Middle Channel / 20MHz / QPSK



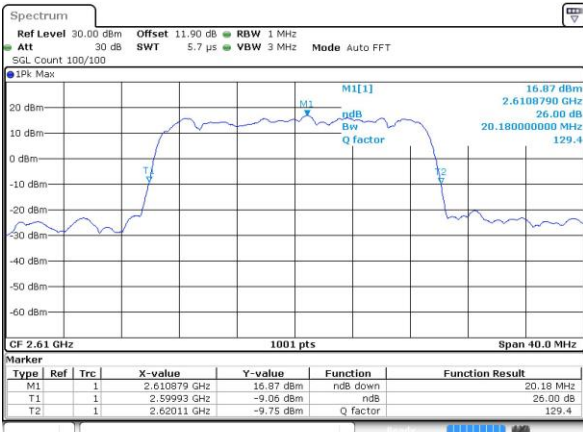
Date: 4 SEP 2018 14:27:01

Middle Channel / 20MHz / 16QAM



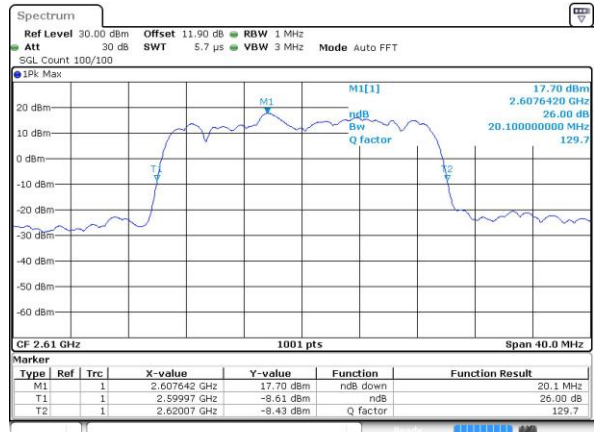
Date: 4 SEP 2018 14:27:12

Highest Channel / 20MHz / QPSK



Date: 4 SEP 2018 14:27:46

Highest Channel / 20MHz / 16QAM

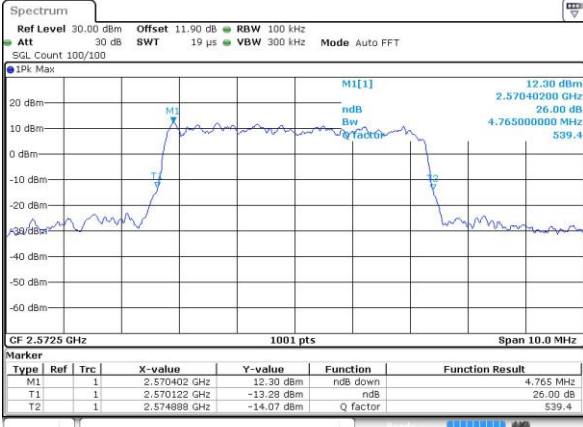


Date: 4 SEP 2018 14:27:57



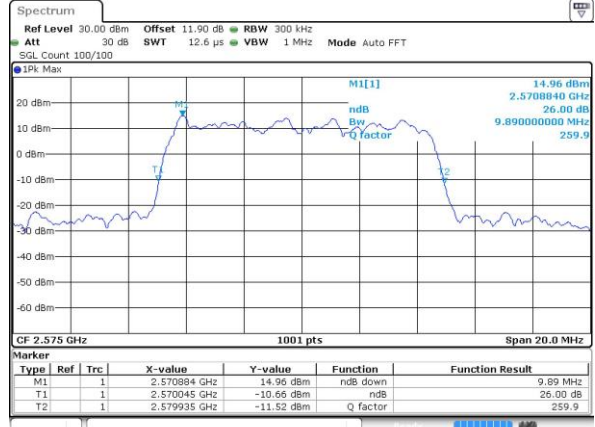
LTE Band 38

Lowest Channel / 5MHz / 64QAM



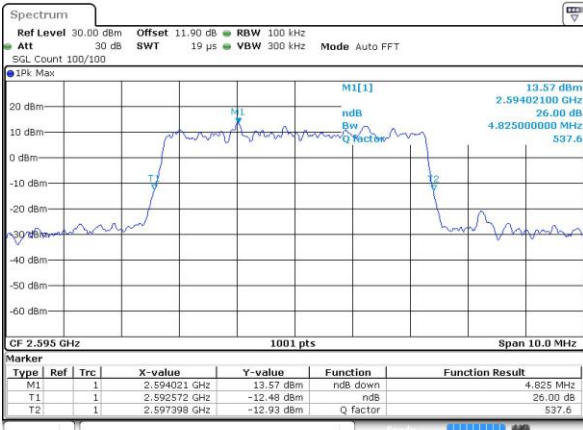
Date: 4 SEP 2018 14:41:27

Lowest Channel / 10MHz / 64QAM



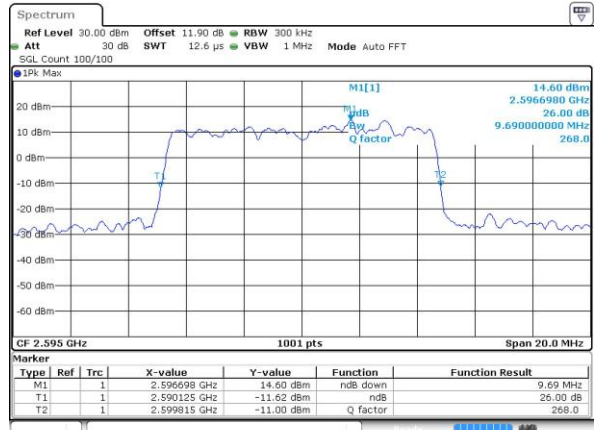
Date: 4 SEP 2018 14:42:36

Middle Channel / 5MHz / 64QAM



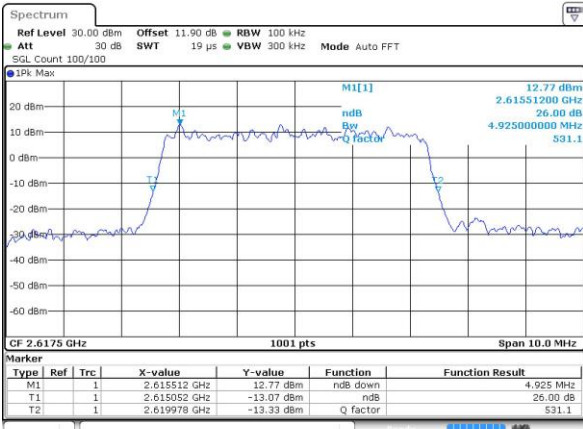
Date: 4 SEP 2018 14:41:50

Middle Channel / 10MHz / 64QAM



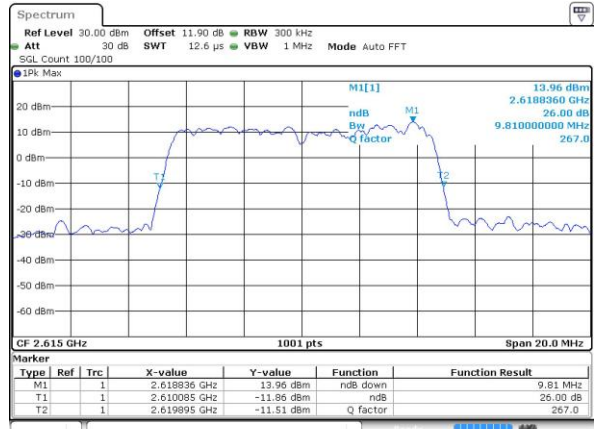
Date: 4 SEP 2018 14:42:59

Highest Channel / 5MHz / 64QAM



Date: 4 SEP 2018 14:42:13

Highest Channel / 10MHz / 64QAM

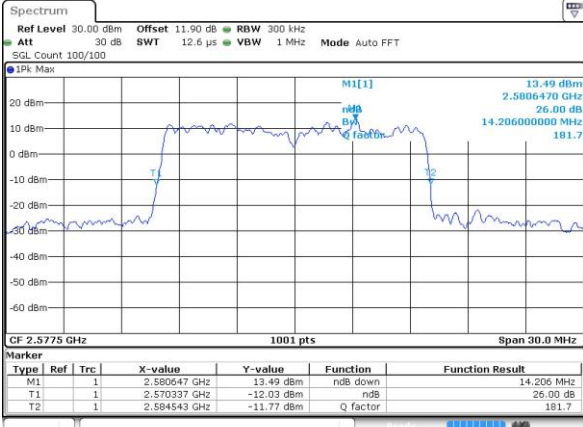


Date: 4 SEP 2018 14:43:21



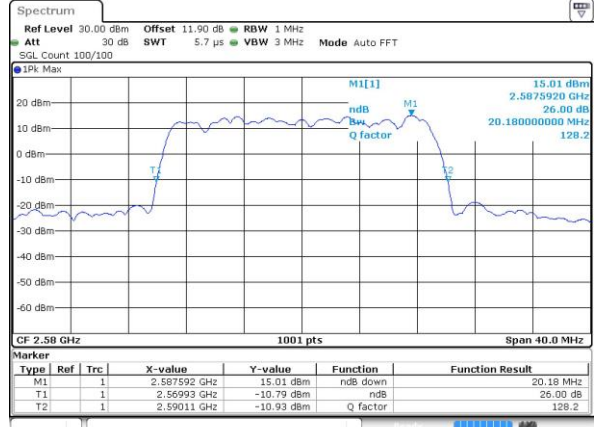
LTE Band 38

Lowest Channel / 15MHz / 64QAM



Date: 4 SEP 2018 14:43:44

Lowest Channel / 20MHz / 64QAM



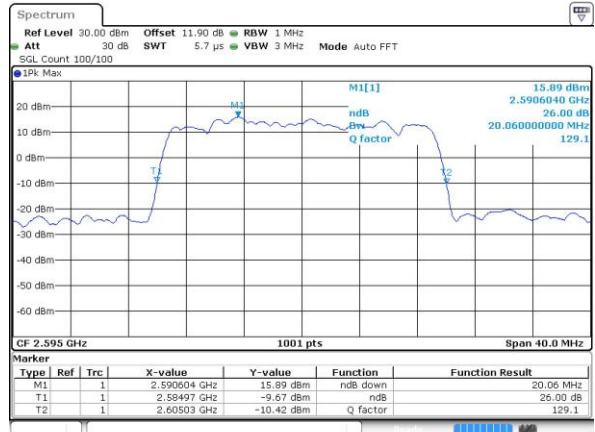
Date: 4 SEP 2018 14:44:52

Middle Channel / 15MHz / 64QAM



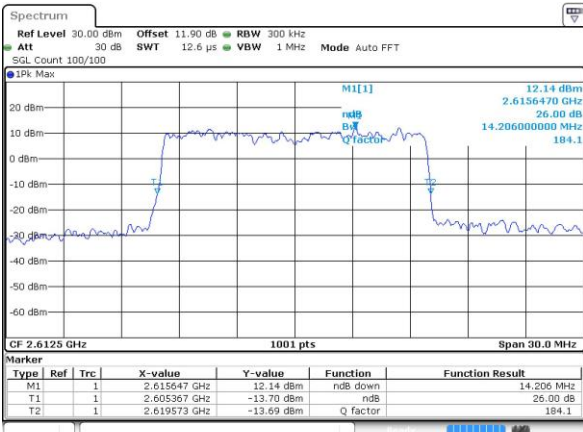
Date: 4 SEP 2018 14:44:07

Middle Channel / 20MHz / 64QAM



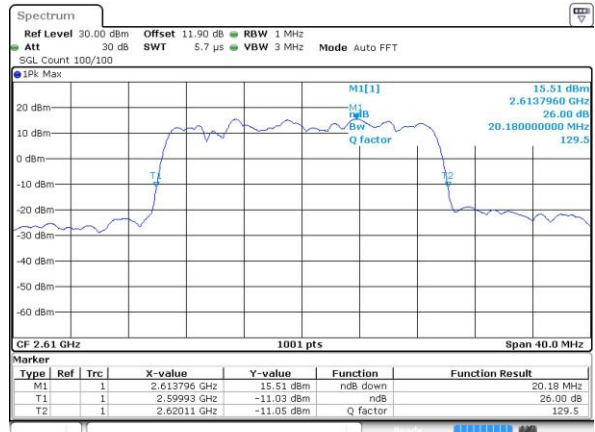
Date: 4 SEP 2018 14:45:15

Highest Channel / 15MHz / 64QAM



Date: 4 SEP 2018 14:44:30

Highest Channel / 20MHz / 64QAM



Date: 4 SEP 2018 14:45:38



Occupied Bandwidth

Mode	LTE Band 38 : 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	9.05	9.05	13.46	13.46	18.3	18.3
Middle CH	-	-	-	-	4.49	4.48	9.01	8.99	13.46	13.46	18.18	18.34
Highest CH	-	-	-	-	4.48	4.5	9.01	9.03	13.49	13.46	18.22	18.46
Mode	LTE Band 38 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.52	-	9.05	-	13.43	-	18.26	-
Middle CH	-	-	-	-	4.49	-	9.03	-	13.46	-	18.46	-
Highest CH	-	-	-	-	4.49	-	9.03	-	13.49	-	18.30	-