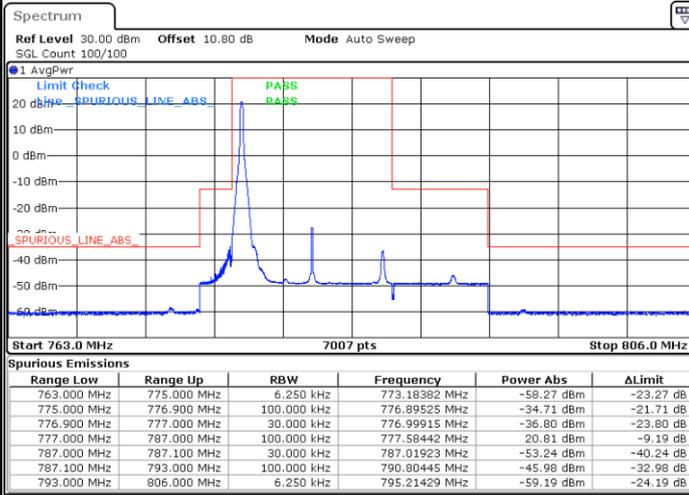




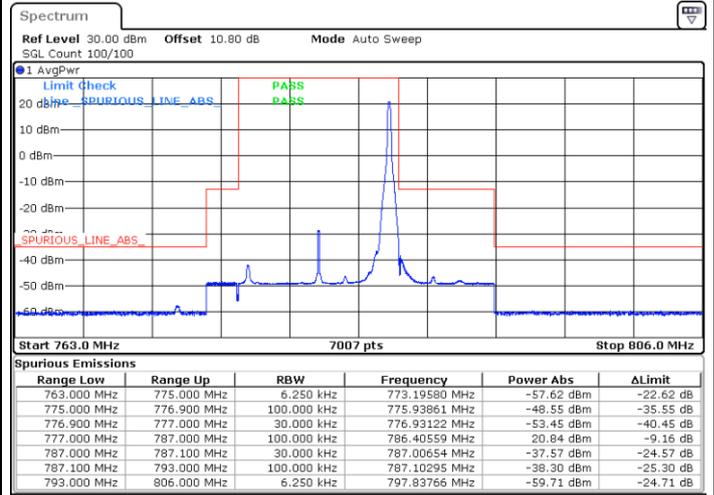
IC LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



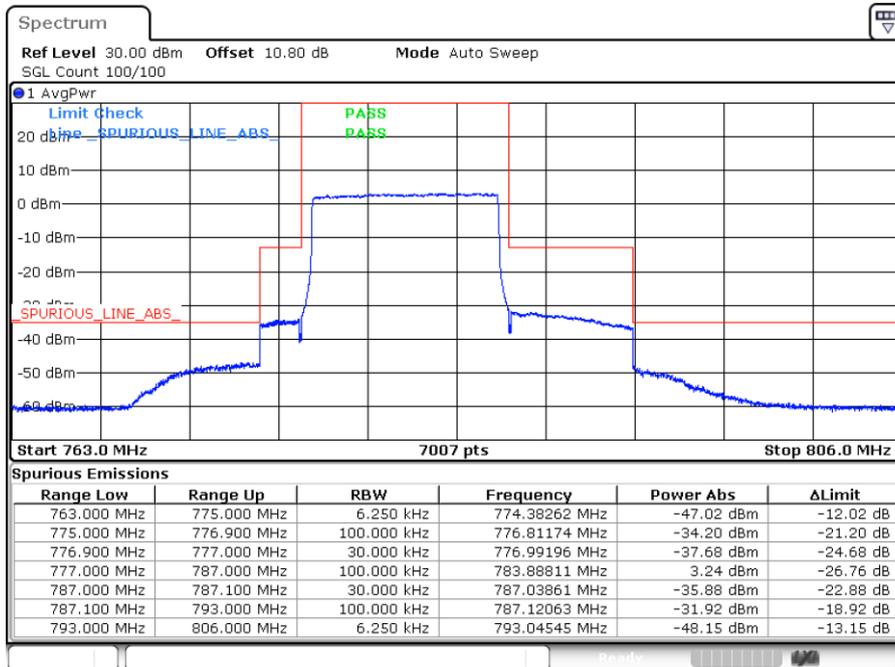
Date: 31.OCT.2017 21:17:12

Highest Band Edge / 1 RB



Date: 31.OCT.2017 21:18:51

Band Edge / Full RB



Date: 31.OCT.2017 21:15:33

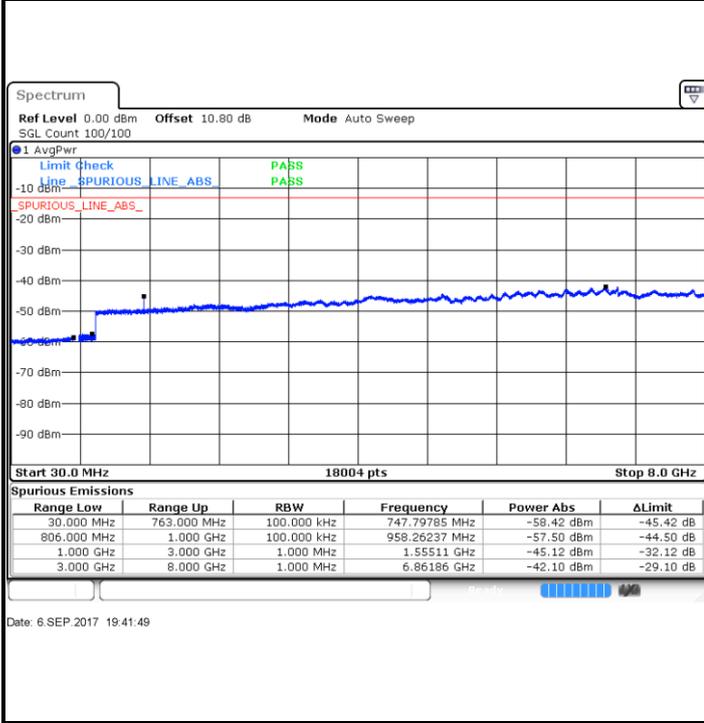


**Conducted Spurious Emission**

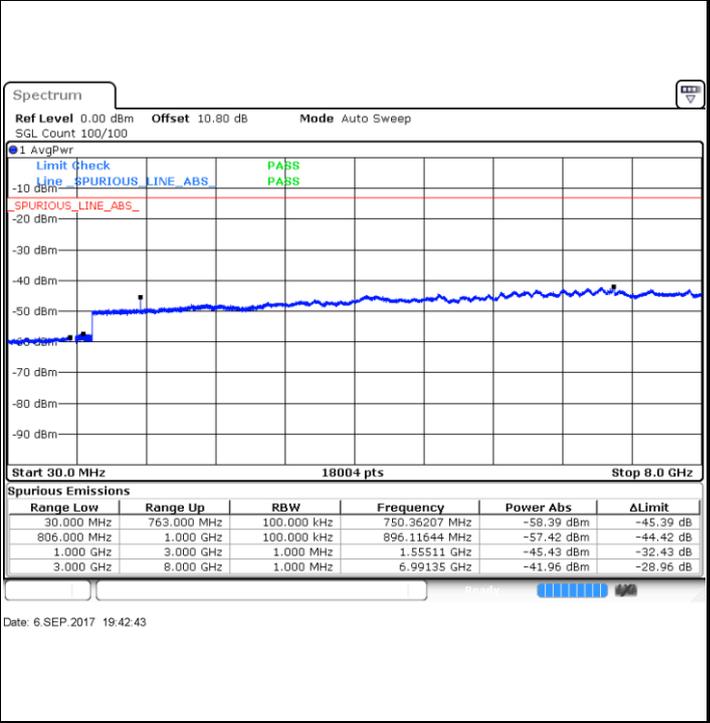


LTE Band 13 / 5MHz

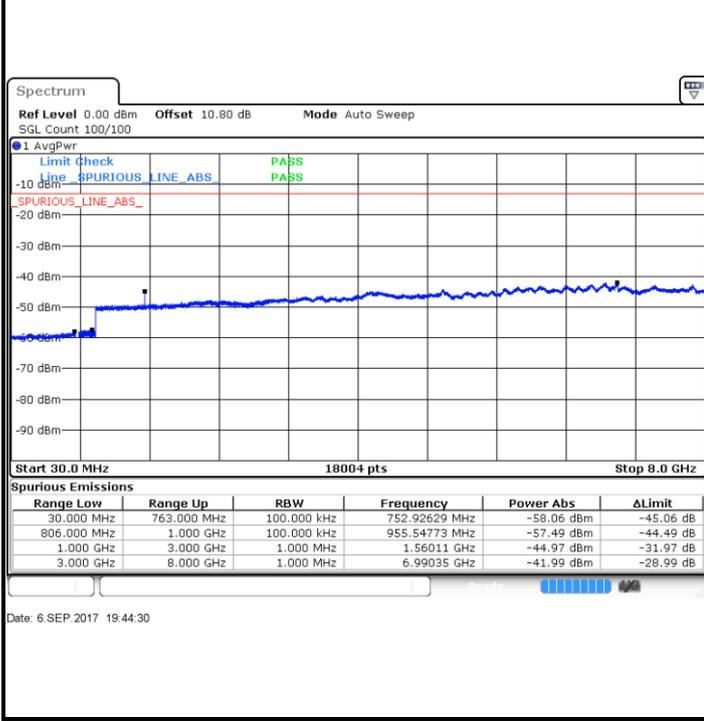
Lowest Channel / QPSK



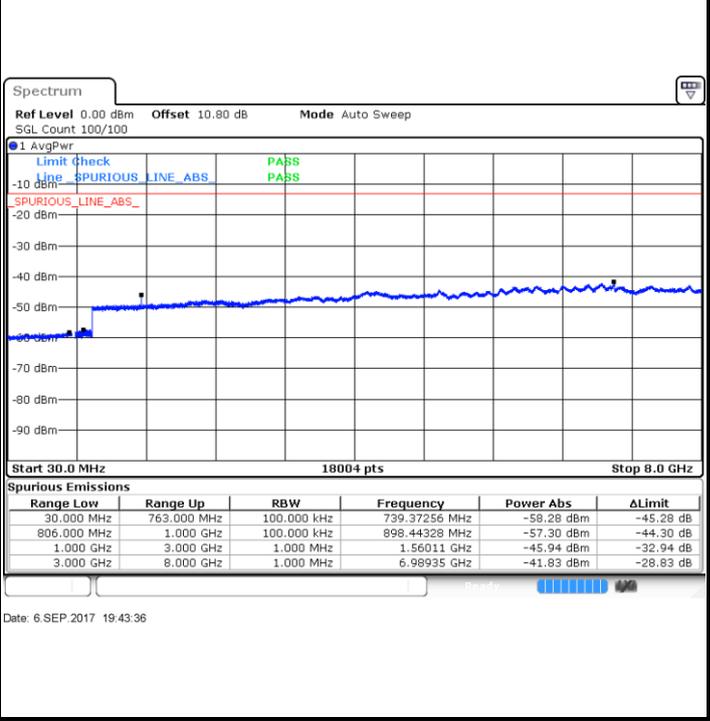
Lowest Channel / 16QAM



Middle Channel / QPSK



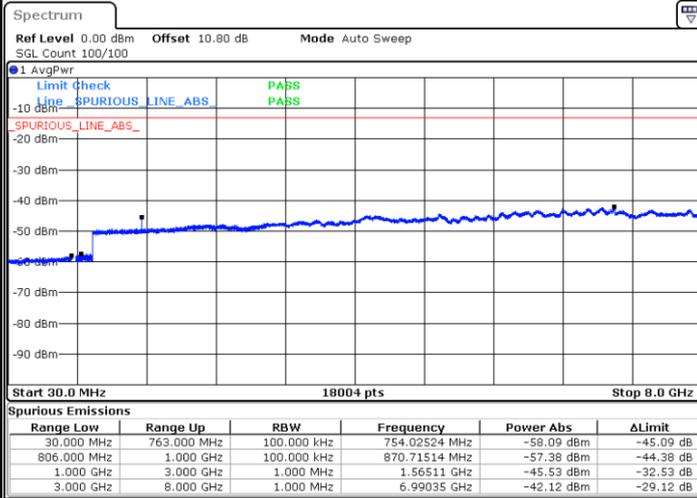
Middle Channel / 16QAM





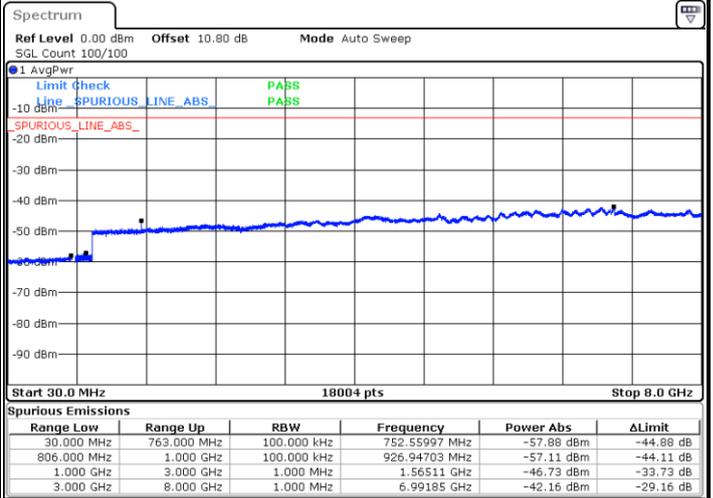
LTE Band 13 / 5MHz

Highest Channel / QPSK



Date: 6 SEP.2017 19:53:19

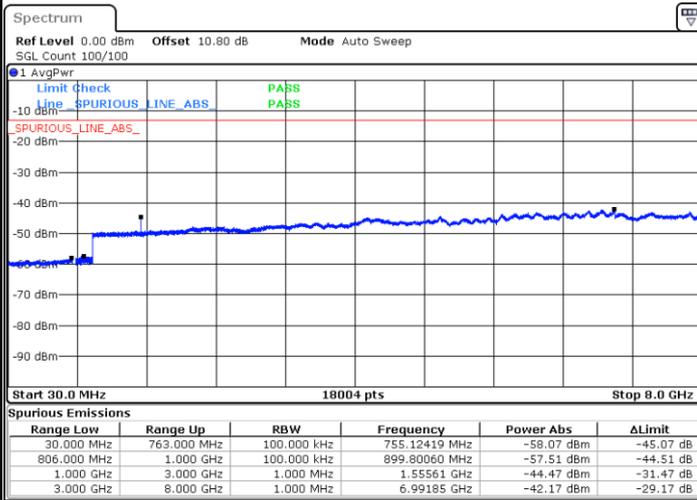
Highest Channel / 16QAM



Date: 6 SEP.2017 19:54:12

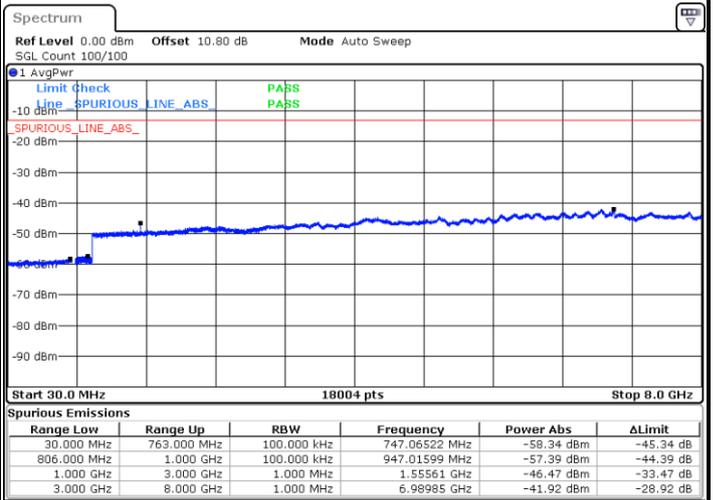
LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 6 SEP.2017 20:06:32

Middle Channel / 16QAM



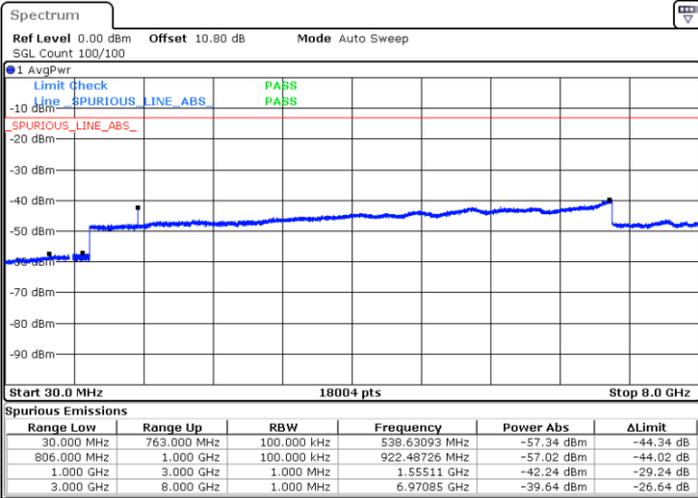
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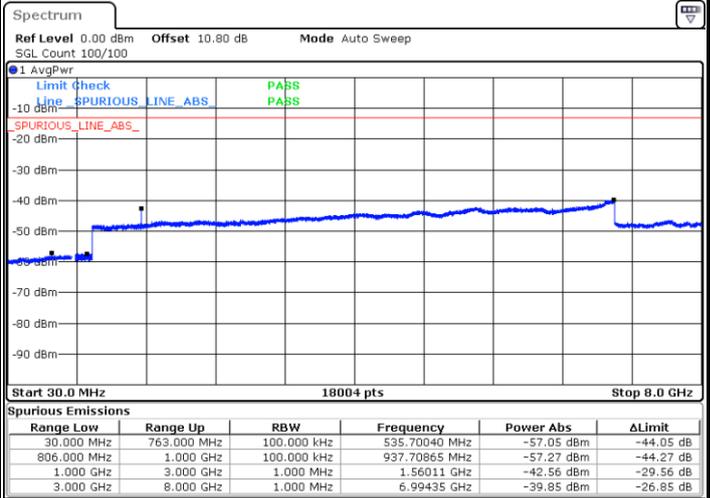
LTE Band 13 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

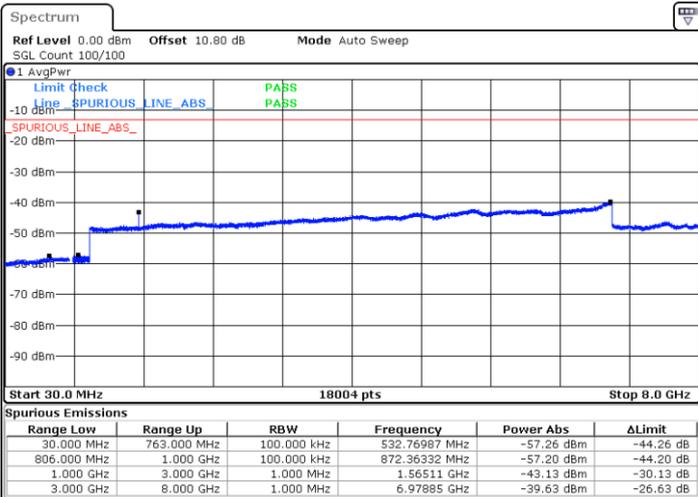


Date: 31.OCT.2017 20:52:34



Date: 31.OCT.2017 20:53:31

Highest Channel / 64QAM

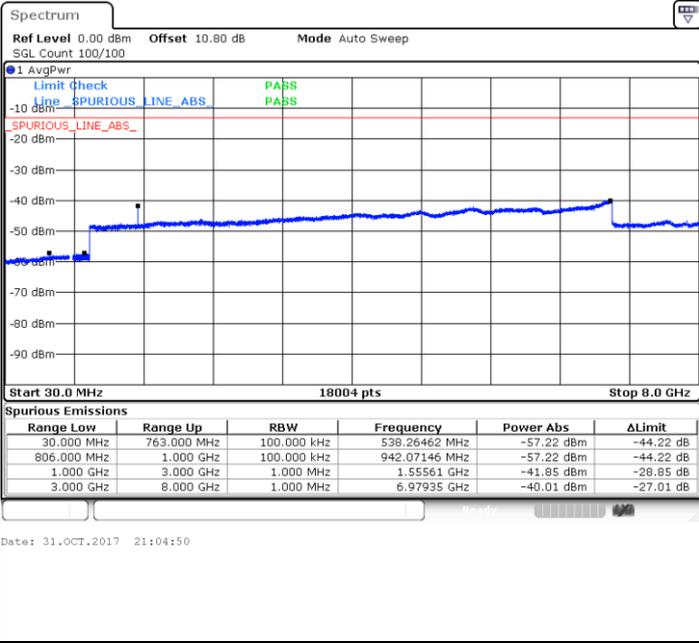


Date: 31.OCT.2017 20:58:33



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	0.0081	PASS
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0070	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0064	
0	Normal Voltage	0.0013	
-10	Normal Voltage	0.0082	
-20	Normal Voltage	0.0010	
-30	Normal Voltage	0.0018	
20	Maximum Voltage	0.0068	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0010	

**Note:**

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 17

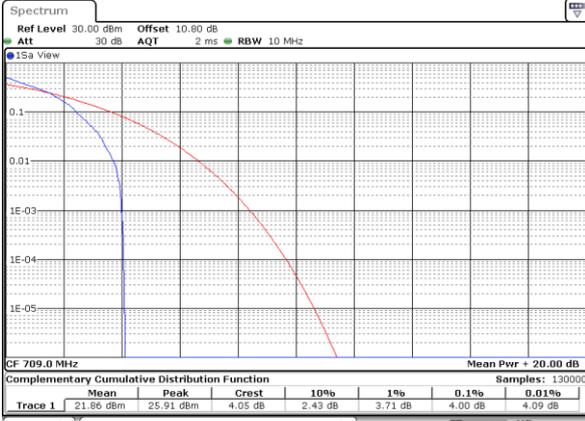
## Peak-to-Average Ratio

Mode	LTE Band 17 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4	4.84	4.84	5.91	PASS
Middle CH	3.77	4.93	4.58	5.83	
Highest CH	4	4.87	4.87	5.86	
Mode	LTE Band 17 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	4.75	5.8	-	-	PASS
Middle CH	4.75	5.83	-	-	
Highest CH	4.81	5.86	-	-	



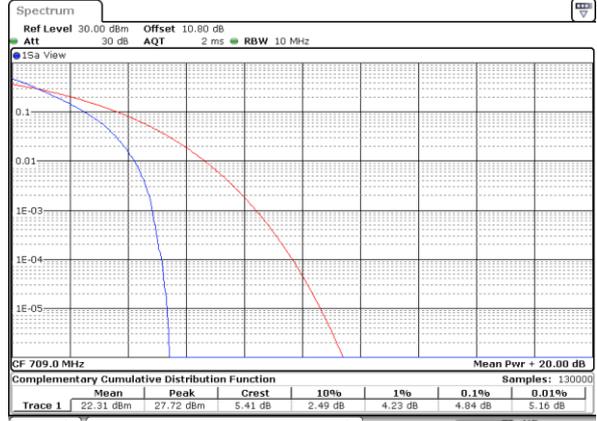
LTE Band 17 / 10MHz / QPSK

Lowest Channel / 1RB



Date: 6 SEP 2017 19:32:04

Lowest Channel / Full RB



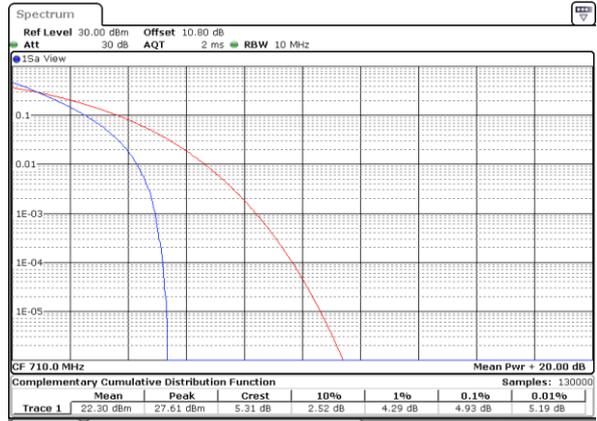
Date: 6 SEP 2017 19:32:14

Middle Channel / 1RB



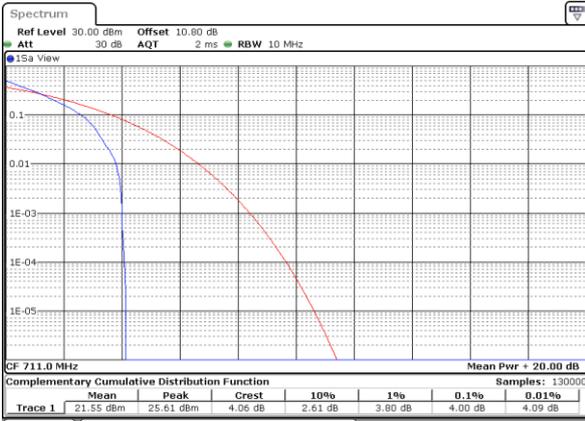
Date: 6 SEP 2017 19:32:25

Middle Channel / Full RB



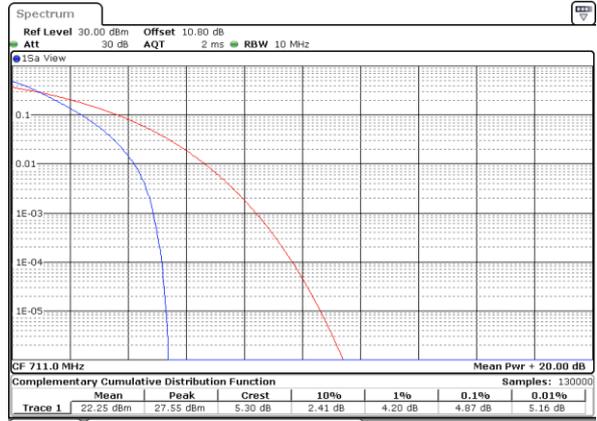
Date: 6 SEP 2017 19:32:34

Highest Channel / 1RB



Date: 6 SEP 2017 19:32:43

Highest Channel / Full RB

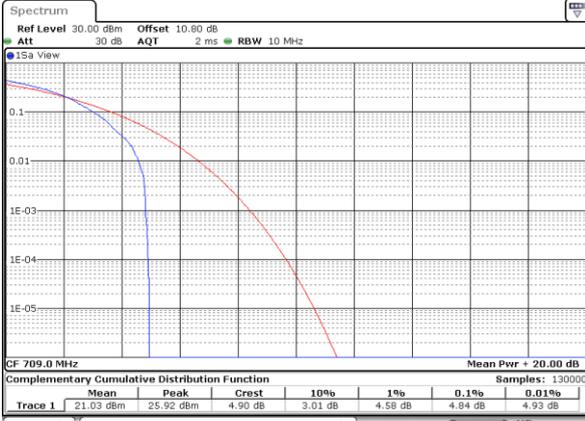


Date: 6 SEP 2017 19:32:53



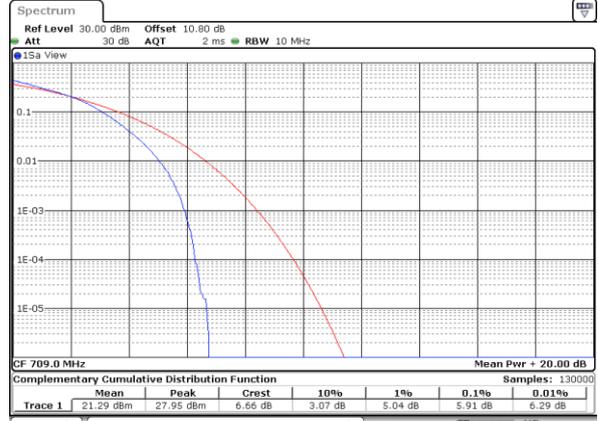
LTE Band 17 / 10MHz / 16QAM

Lowest Channel / 1RB



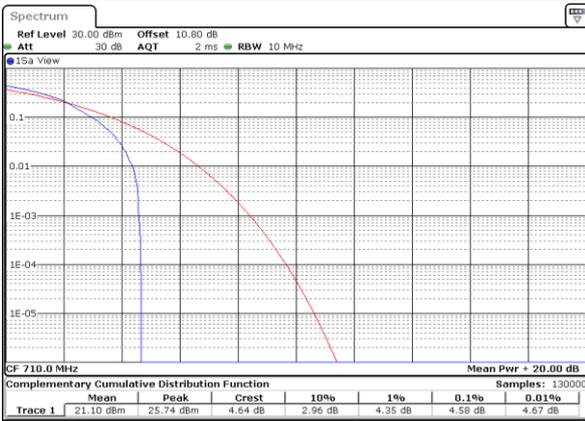
Date: 6 SEP 2017 19:21:17

Lowest Channel / Full RB



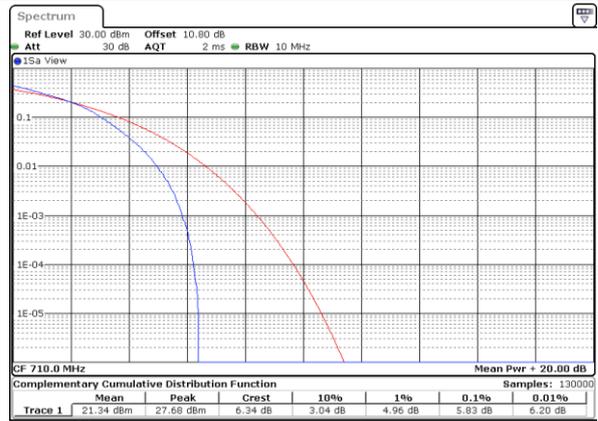
Date: 6 SEP 2017 19:21:26

Middle Channel / 1RB



Date: 6 SEP 2017 19:21:34

Middle Channel / Full RB



Date: 6 SEP 2017 19:31:32

Highest Channel / 1RB



Date: 6 SEP 2017 19:31:41

Highest Channel / Full RB

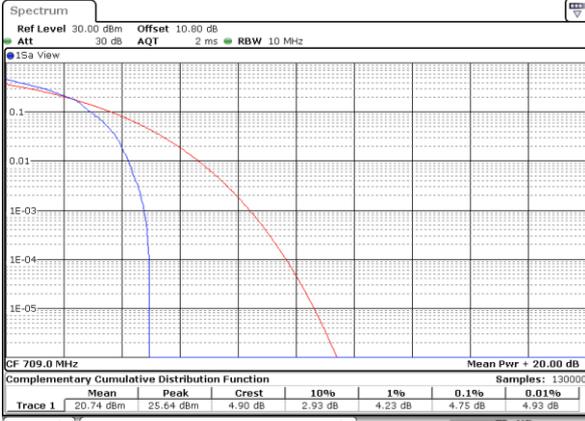


Date: 6 SEP 2017 19:31:50



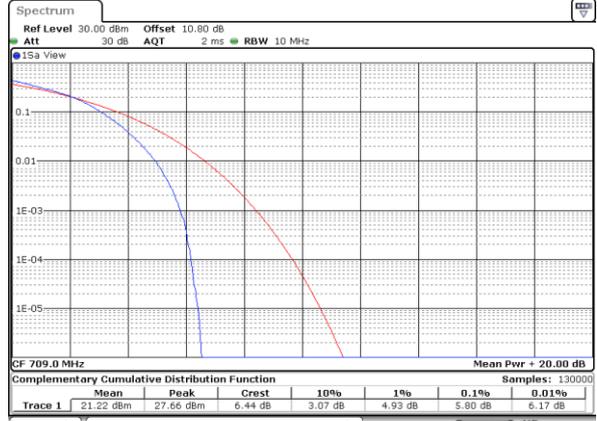
LTE Band 17 / 10MHz / 64QAM

Lowest Channel / 1RB



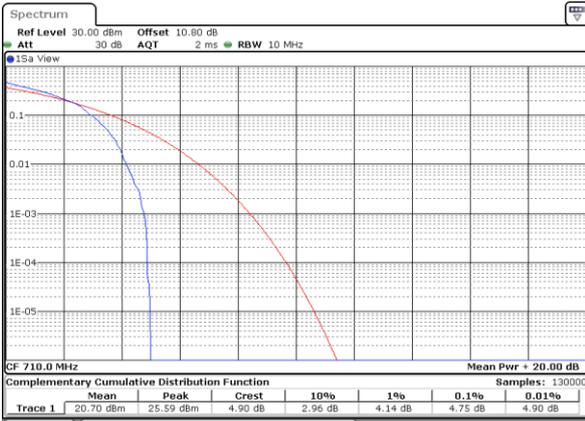
Date: 31.OCT.2017 20:44:49

Lowest Channel / Full RB



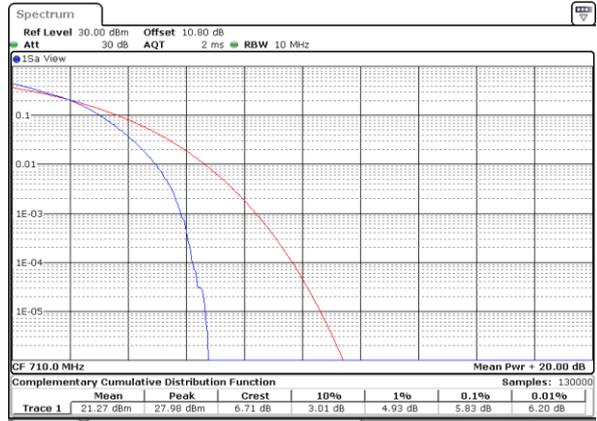
Date: 31.OCT.2017 20:45:03

Middle Channel / 1RB



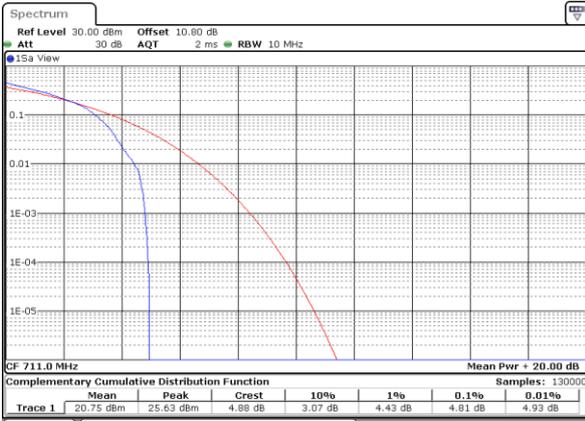
Date: 31.OCT.2017 20:45:13

Middle Channel / Full RB



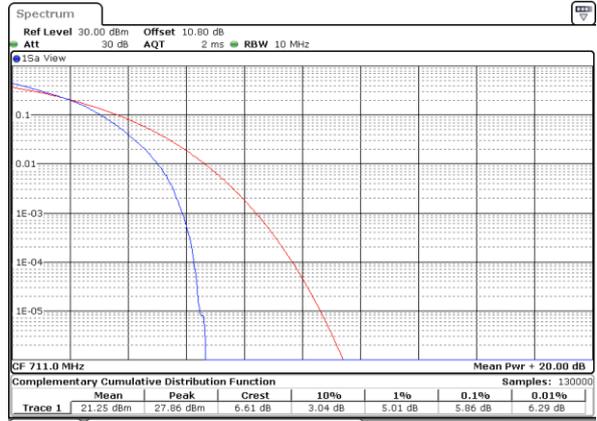
Date: 31.OCT.2017 20:45:24

Highest Channel / 1RB



Date: 31.OCT.2017 20:45:35

Highest Channel / Full RB



Date: 31.OCT.2017 20:45:46



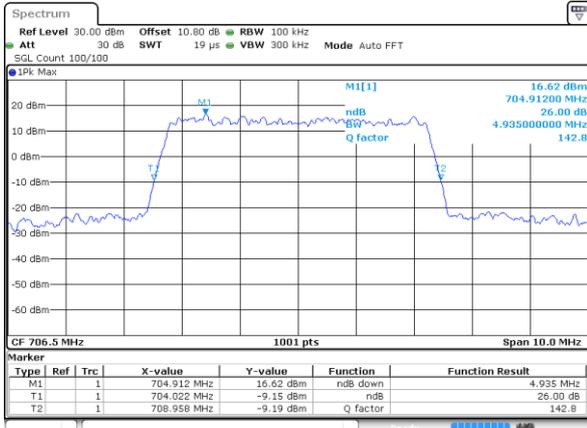
**26dB Bandwidth**

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	-	-	-	-	4.94	4.87	9.67	9.83	-	-	-	-
Middle CH	-	-	-	-	4.94	4.87	9.73	9.71	-	-	-	-
Highest CH	-	-	-	-	4.92	4.99	9.85	9.63	-	-	-	-
Mode	LTE Band 17 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.9	-	9.71	-	-	-	-	-
Middle CH	-	-	-	-	4.86	-	9.63	-	-	-	-	-
Highest CH	-	-	-	-	4.85	-	9.77	-	-	-	-	-



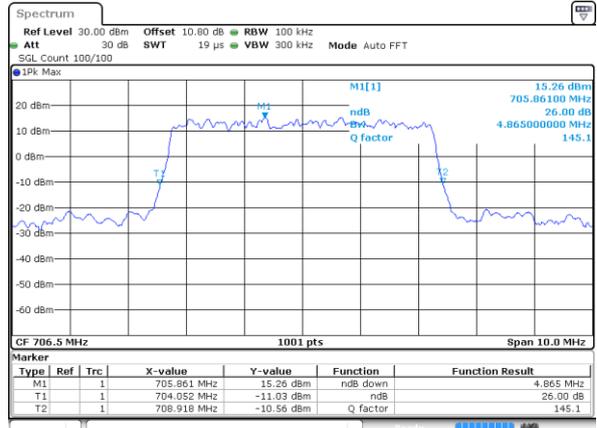
LTE Band 17

Lowest Channel / 5MHz / QPSK



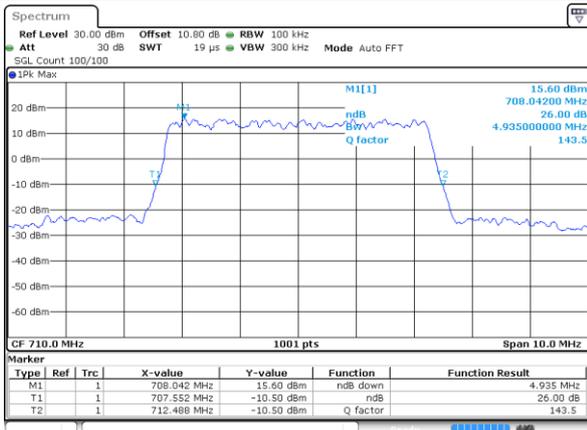
Date: 6 SEP 2017 18:47:18

Lowest Channel / 5MHz / 16QAM



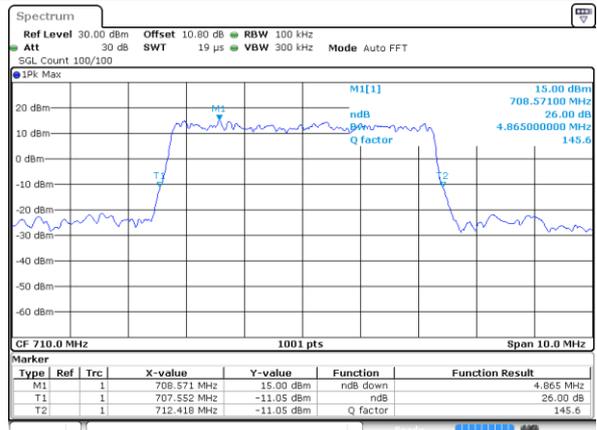
Date: 6 SEP 2017 18:47:28

Middle Channel / 5MHz / QPSK



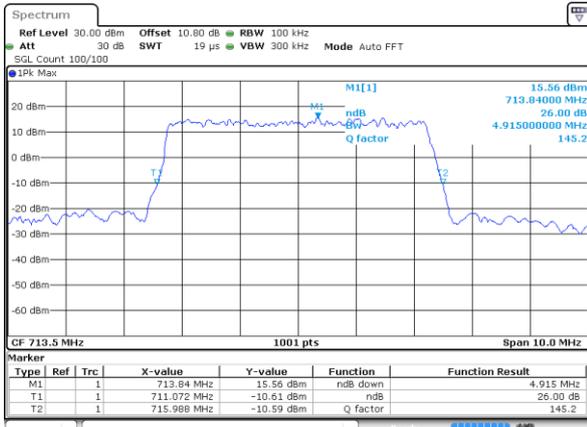
Date: 6 SEP 2017 18:54:21

Middle Channel / 5MHz / 16QAM



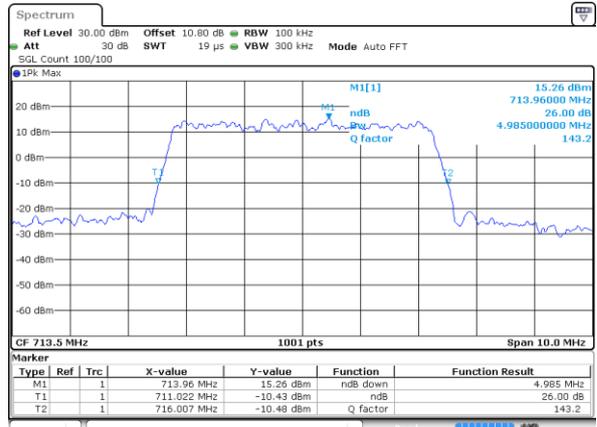
Date: 6 SEP 2017 18:54:31

Highest Channel / 5MHz / QPSK



Date: 6 SEP 2017 18:56:48

Highest Channel / 5MHz / 16QAM

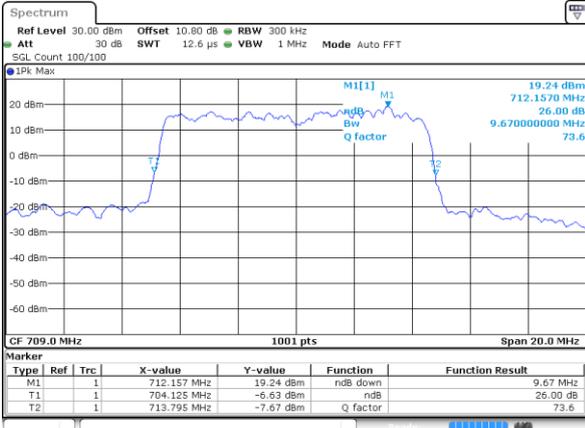


Date: 6 SEP 2017 18:56:58



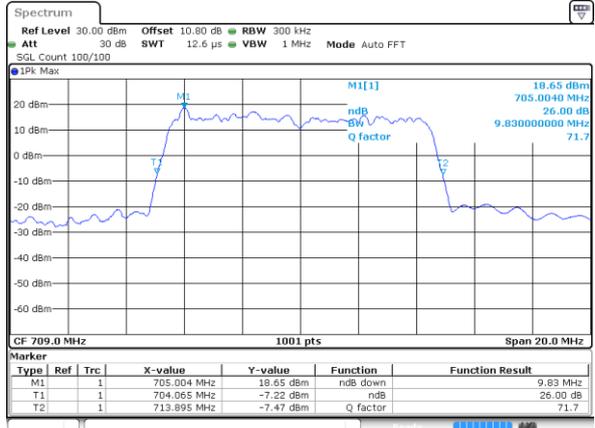
LTE Band 17

Lowest Channel / 10MHz / QPSK



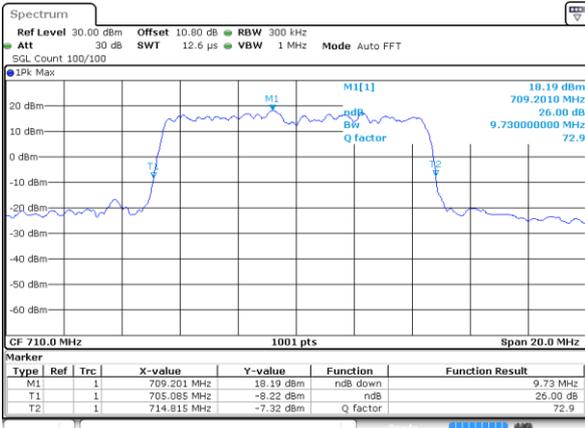
Date: 6 SEP 2017 19:03:50

Lowest Channel / 10MHz / 16QAM



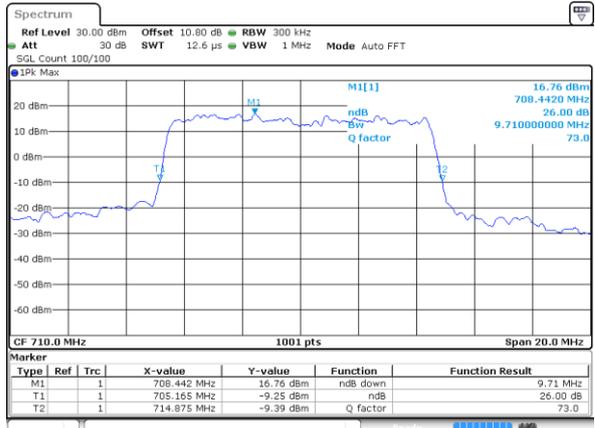
Date: 6 SEP 2017 19:04:00

Middle Channel / 10MHz / QPSK



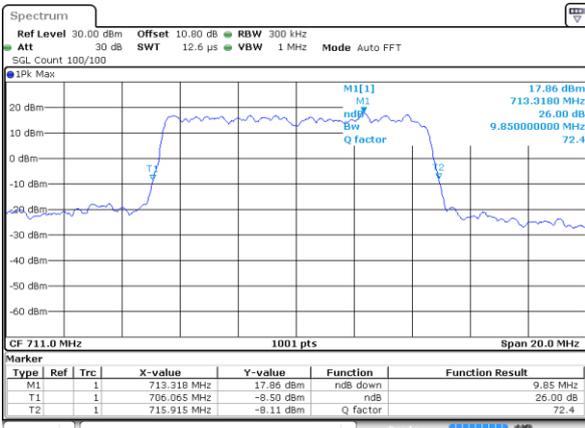
Date: 6 SEP 2017 19:10:53

Middle Channel / 10MHz / 16QAM



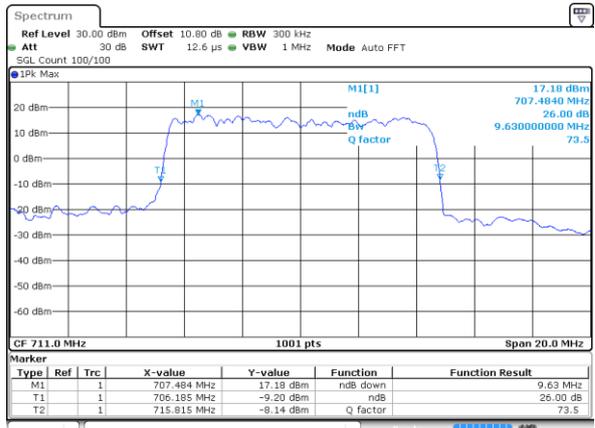
Date: 6 SEP 2017 19:11:03

Highest Channel / 10MHz / QPSK



Date: 6 SEP 2017 19:13:21

Highest Channel / 10MHz / 16QAM

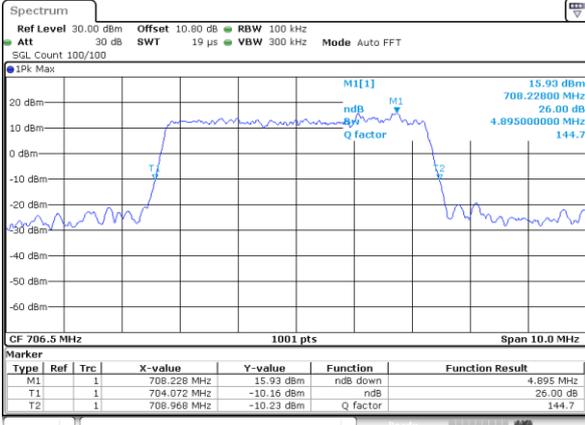


Date: 6 SEP 2017 19:13:31



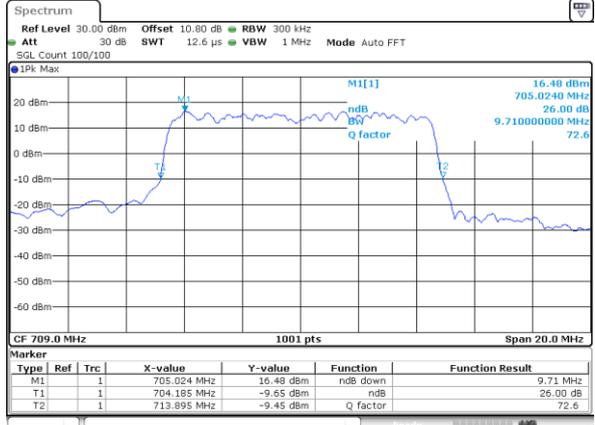
LTE Band 17

Lowest Channel / 5MHz / 64QAM



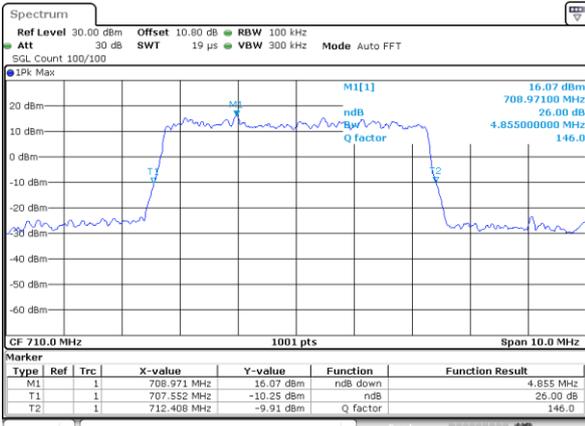
Date: 31.OCT.2017 20:16:25

Lowest Channel / 10MHz / 64QAM



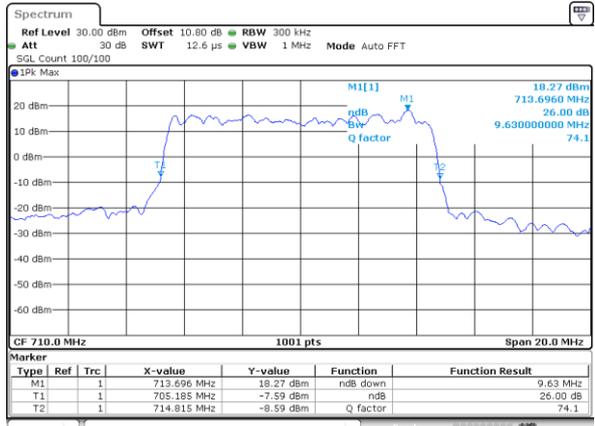
Date: 31.OCT.2017 20:25:03

Middle Channel / 5MHz / 64QAM



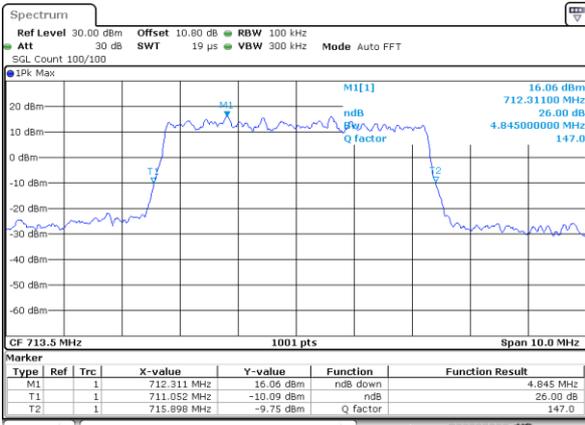
Date: 31.OCT.2017 20:20:03

Middle Channel / 10MHz / 64QAM



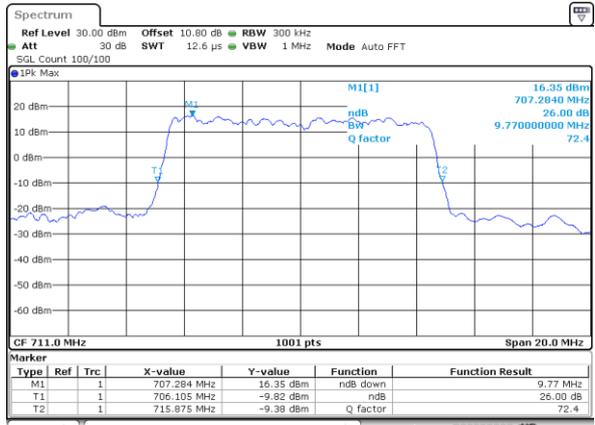
Date: 31.OCT.2017 20:28:43

Highest Channel / 5MHz / 64QAM



Date: 31.OCT.2017 20:21:25

Highest Channel / 10MHz / 64QAM



Date: 31.OCT.2017 20:30:04



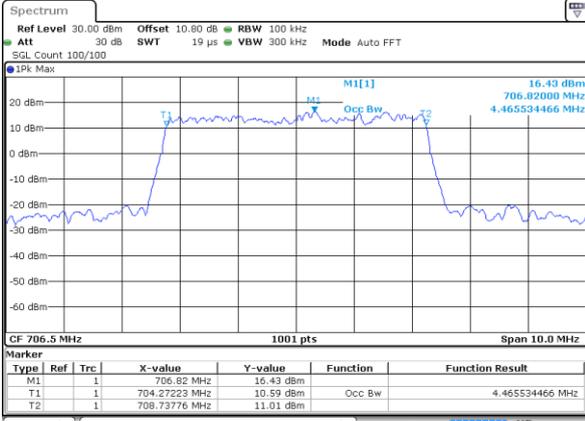
**Occupied Bandwidth**

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	-	-	-	-	4.47	4.52	9.01	9.03	-	-	-	-
Middle CH	-	-	-	-	4.49	4.53	9.01	9.01	-	-	-	-
Highest CH	-	-	-	-	4.49	4.5	9.01	9.05	-	-	-	-
Mode	LTE Band 17 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.51	-	8.99	-	-	-	-	-
Middle CH	-	-	-	-	4.5	-	9.01	-	-	-	-	-
Highest CH	-	-	-	-	4.51	-	9.03	-	-	-	-	-



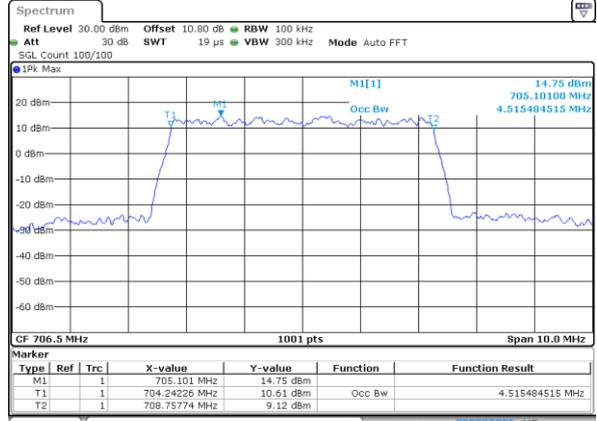
LTE Band 17

Lowest Channel / 5MHz / QPSK



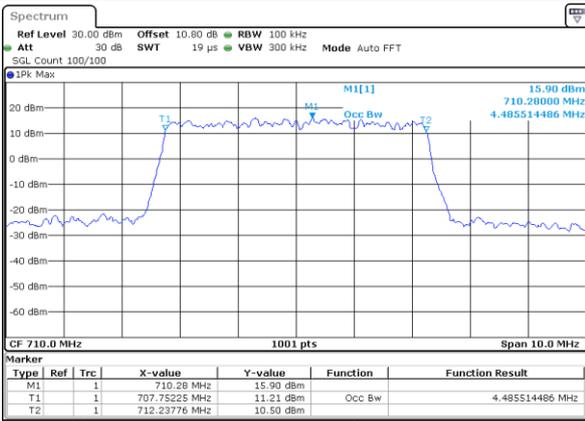
Date: 6 SEP 2017 18:46:58

Lowest Channel / 5MHz / 16QAM



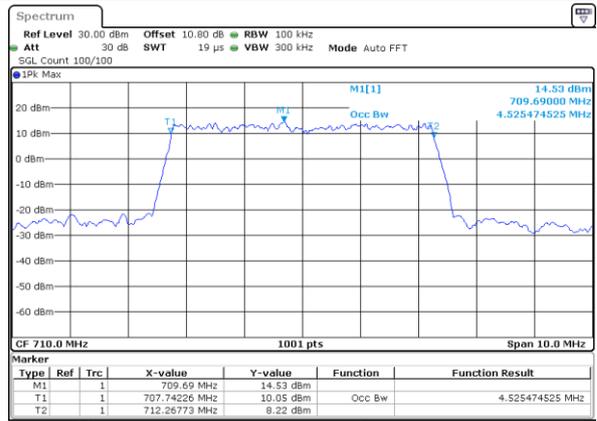
Date: 6 SEP 2017 18:47:08

Middle Channel / 5MHz / QPSK



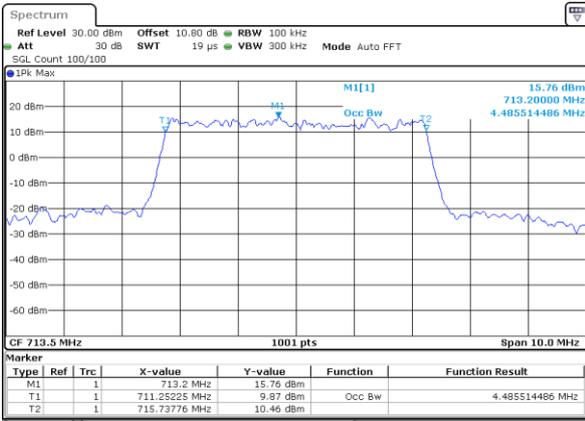
Date: 6 SEP 2017 18:54:01

Middle Channel / 5MHz / 16QAM



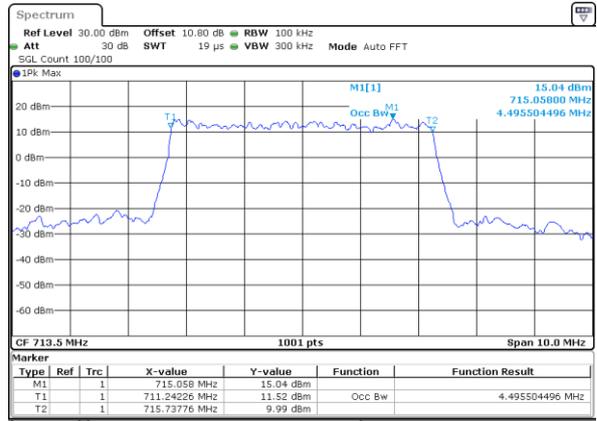
Date: 6 SEP 2017 18:54:11

Highest Channel / 5MHz / QPSK



Date: 6 SEP 2017 18:56:28

Highest Channel / 5MHz / 16QAM

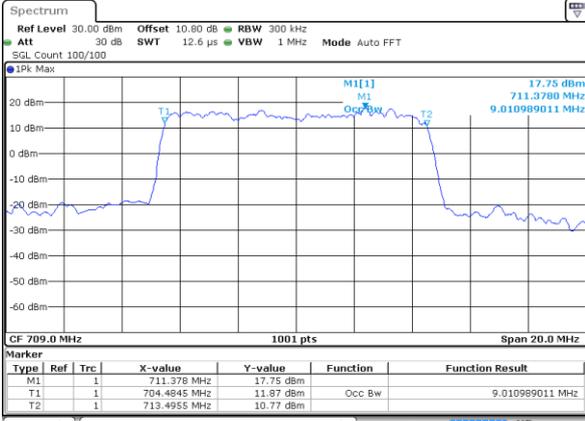


Date: 6 SEP 2017 18:56:38



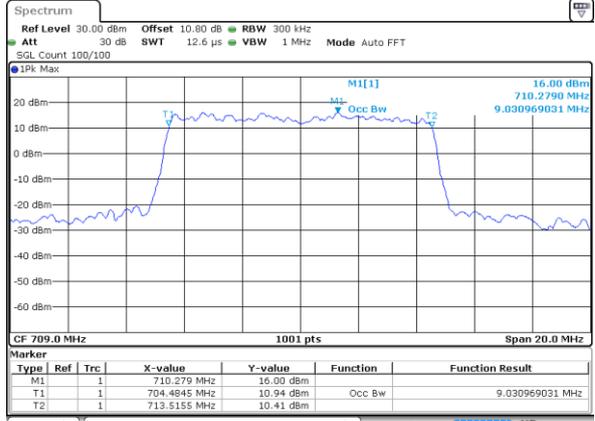
LTE Band 17

Lowest Channel / 10MHz / QPSK



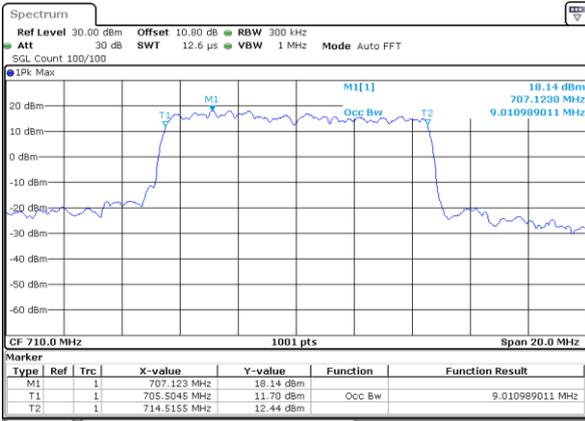
Date: 6 SEP 2017 19:03:30

Lowest Channel / 10MHz / 16QAM



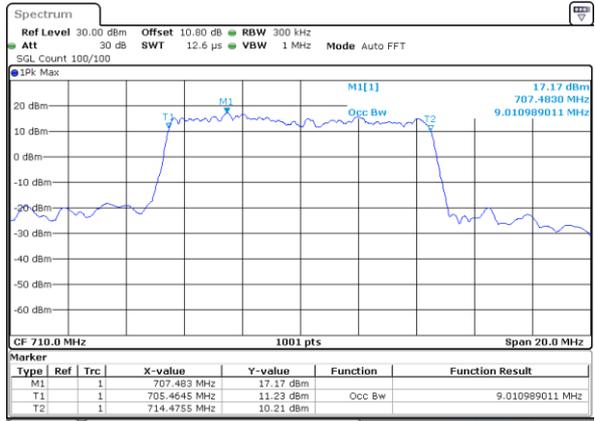
Date: 6 SEP 2017 19:03:40

Middle Channel / 10MHz / QPSK



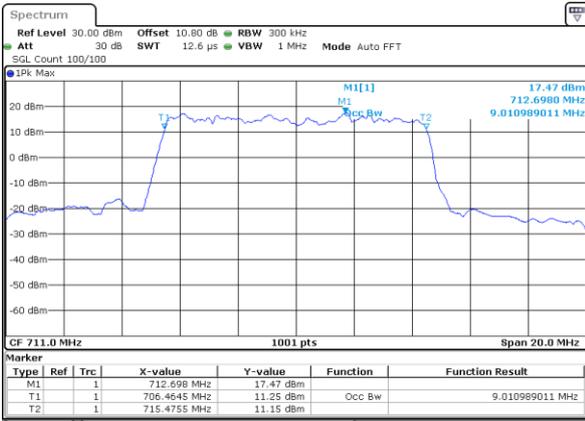
Date: 6 SEP 2017 19:10:33

Middle Channel / 10MHz / 16QAM



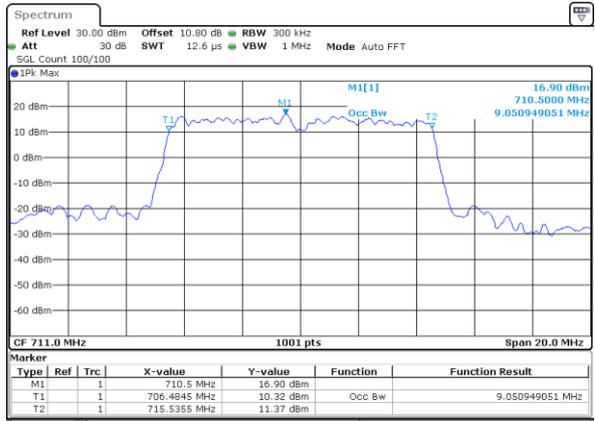
Date: 6 SEP 2017 19:10:43

Highest Channel / 10MHz / QPSK



Date: 6 SEP 2017 19:13:01

Highest Channel / 10MHz / 16QAM

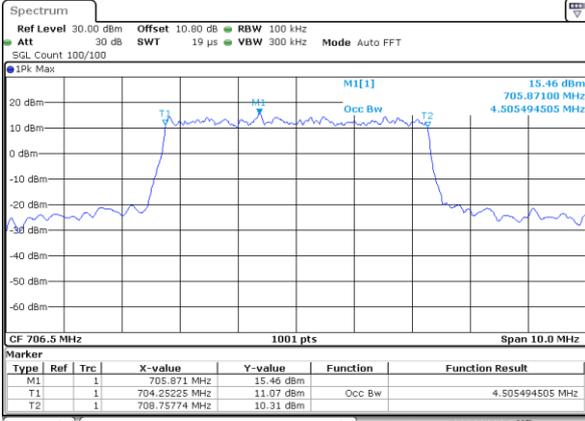


Date: 6 SEP 2017 19:13:11



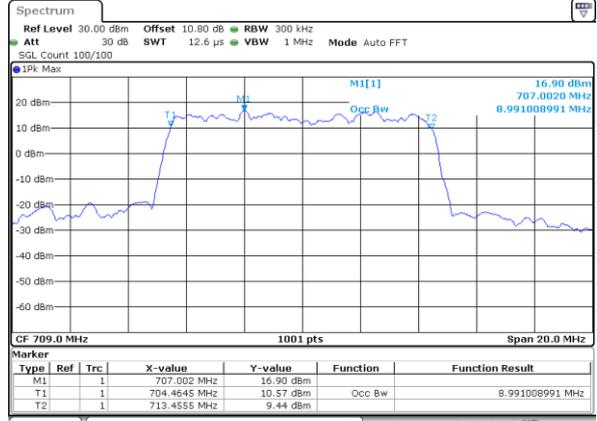
LTE Band 17

Lowest Channel / 5MHz / 64QAM



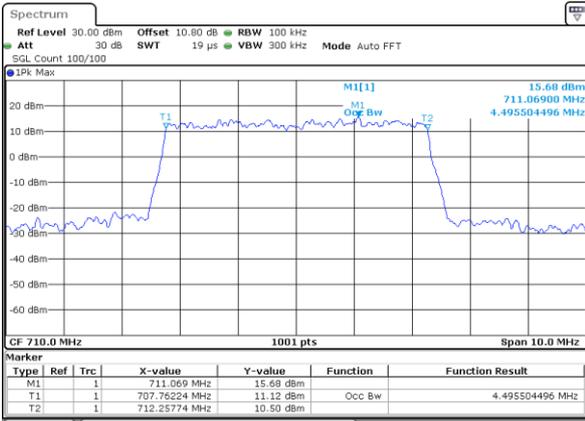
Date: 31.OCT.2017 20:16:13

Lowest Channel / 10MHz / 64QAM



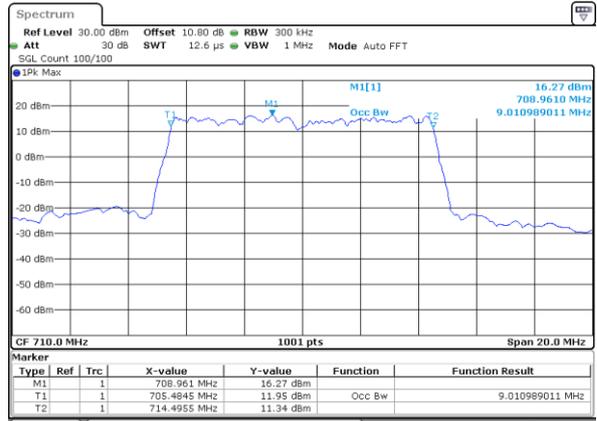
Date: 31.OCT.2017 20:24:52

Middle Channel / 5MHz / 64QAM



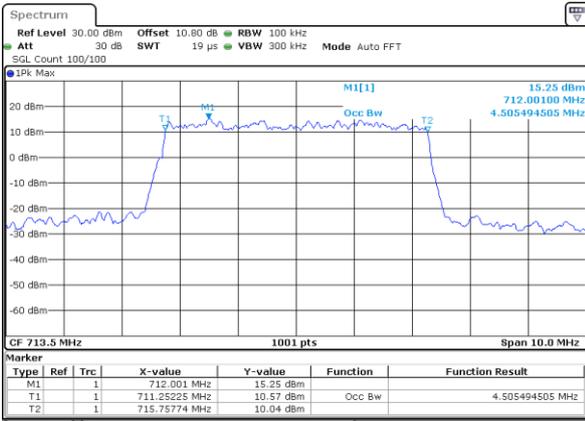
Date: 31.OCT.2017 20:19:52

Middle Channel / 10MHz / 64QAM



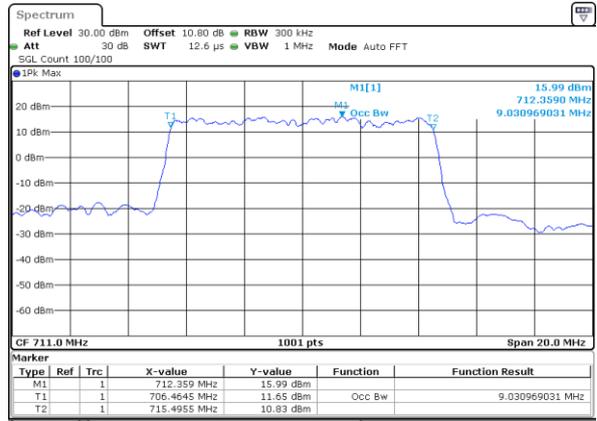
Date: 31.OCT.2017 20:28:31

Highest Channel / 5MHz / 64QAM



Date: 31.OCT.2017 20:21:13

Highest Channel / 10MHz / 64QAM



Date: 31.OCT.2017 20:29:52

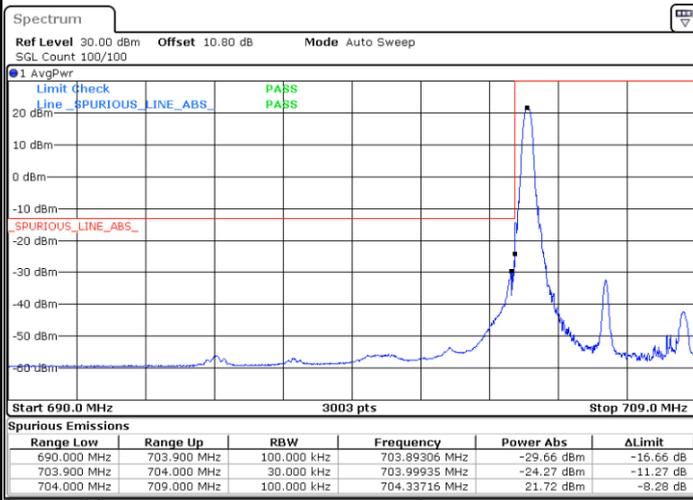


**Conducted Band Edge**



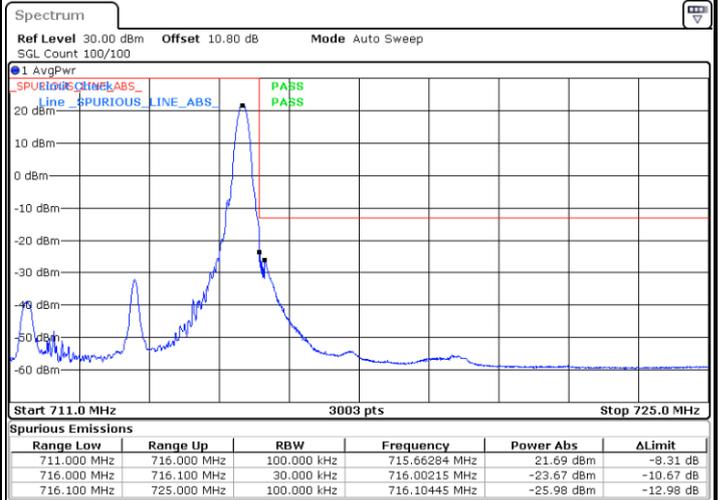
LTE Band 17 / 5MHz / QPSK

Lowest Band Edge / 1 RB



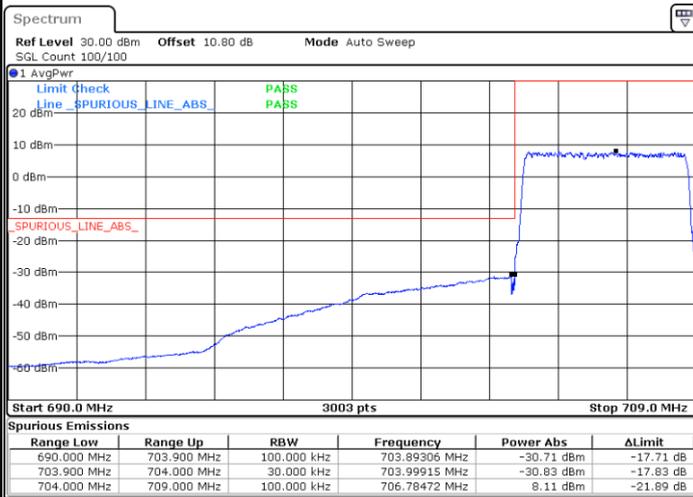
Date: 6 SEP.2017 18:48:37

Highest Band Edge / 1 RB



Date: 6 SEP.2017 18:58:06

Lowest Band Edge / Full RB



Date: 6 SEP.2017 18:50:54

Highest Band Edge / Full RB

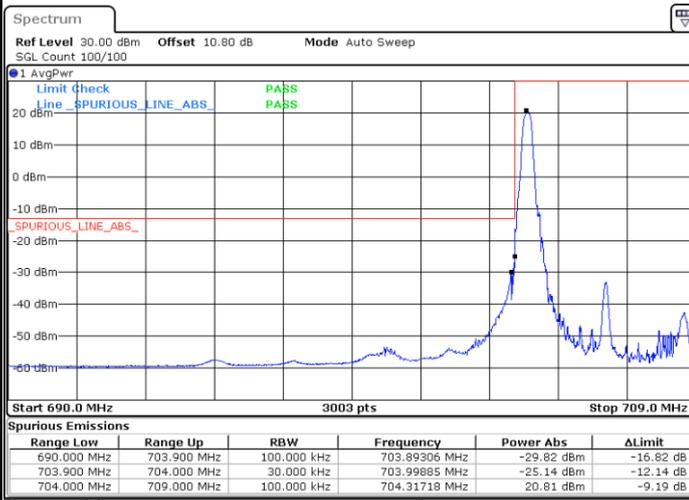


Date: 6 SEP.2017 19:00:24



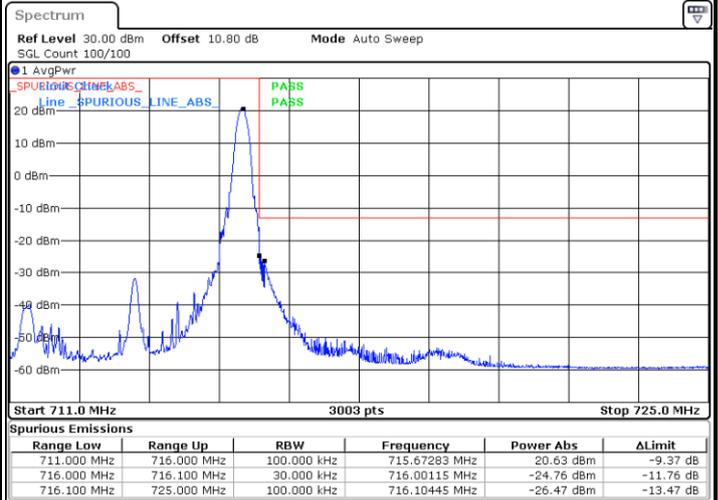
LTE Band 17 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 6 SEP.2017 18:49:45

Highest Band Edge / 1 RB



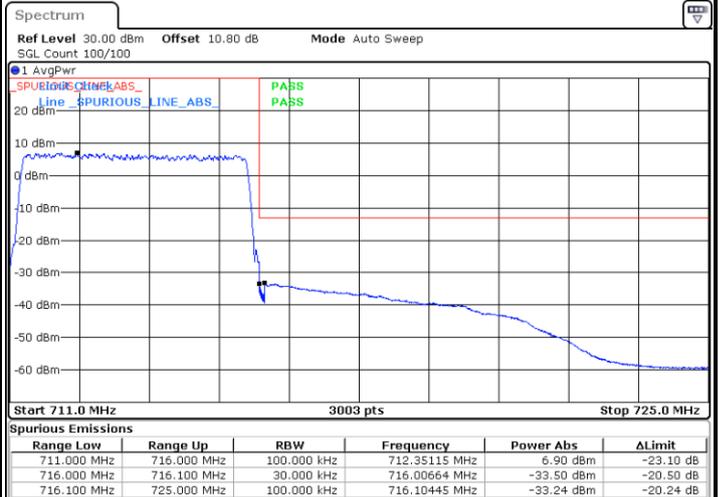
Date: 6 SEP.2017 18:59:15

Lowest Band Edge / Full RB



Date: 6 SEP.2017 18:52:03

Highest Band Edge / Full RB

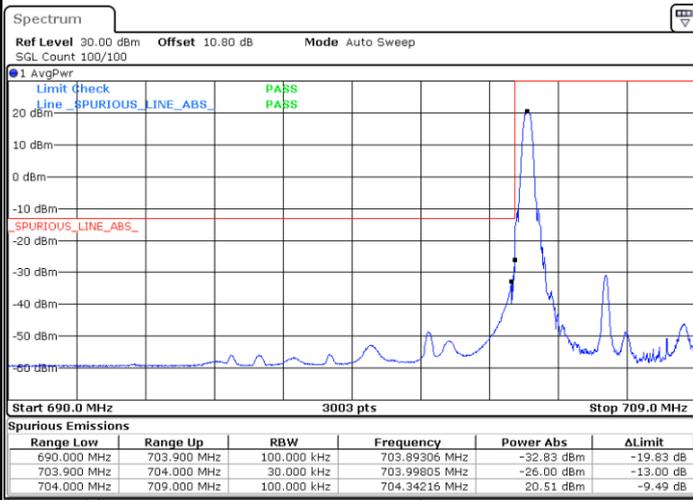


Date: 6 SEP.2017 19:01:32



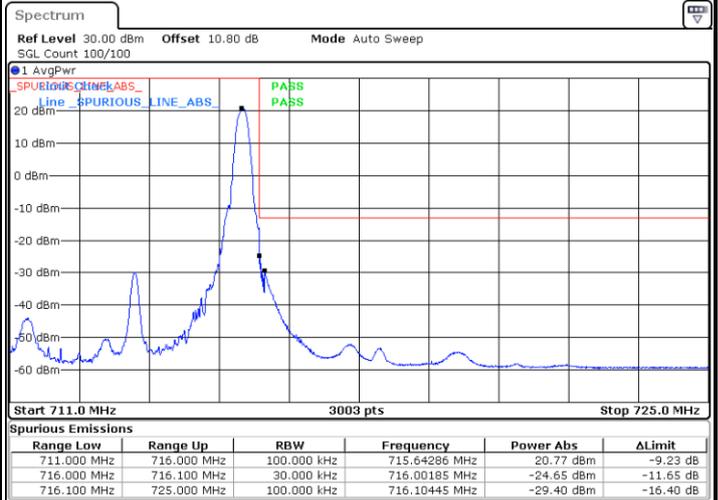
LTE Band 17 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



Date: 31.OCT.2017 20:17:34

Highest Band Edge / 1 RB



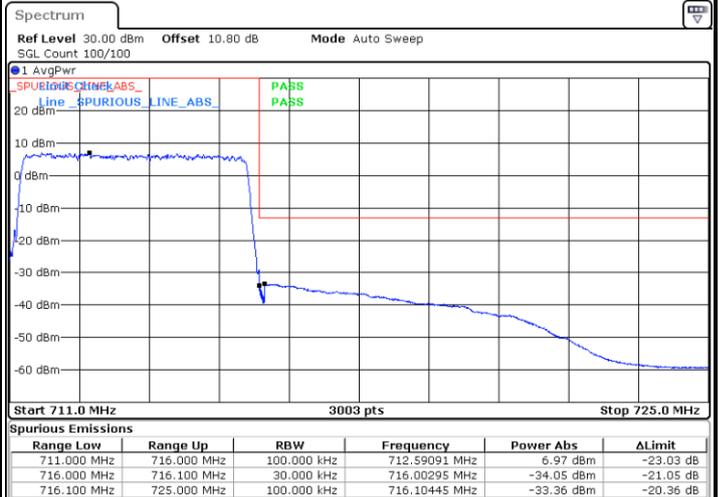
Date: 31.OCT.2017 20:22:34

Lowest Band Edge / Full RB



Date: 31.OCT.2017 20:18:43

Highest Band Edge / Full RB

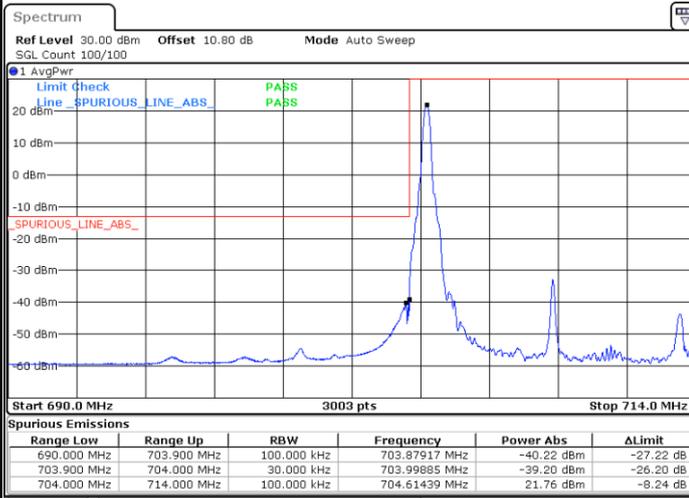


Date: 31.OCT.2017 20:23:43



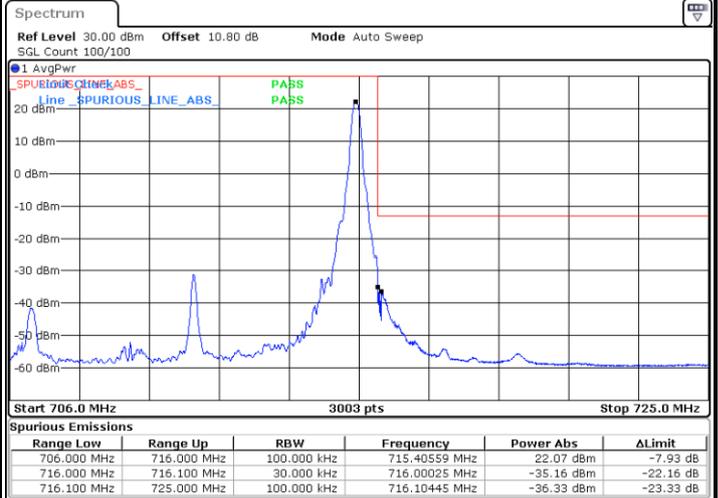
LTE Band 17 / 10MHz / QPSK

Lowest Band Edge / 1 RB



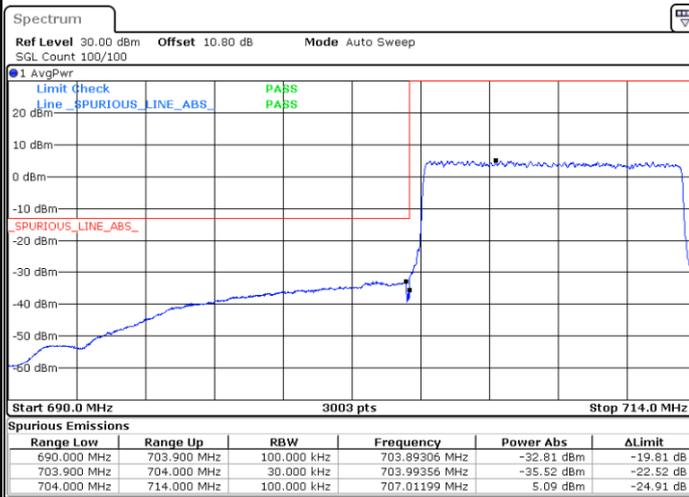
Date: 6 SEP.2017 19:05:09

Highest Band Edge / 1 RB



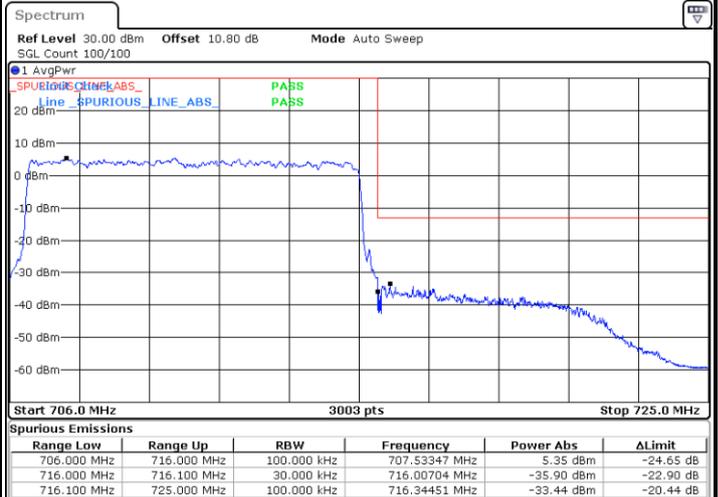
Date: 6 SEP.2017 19:14:39

Lowest Band Edge / Full RB



Date: 6 SEP.2017 19:07:26

Highest Band Edge / Full RB

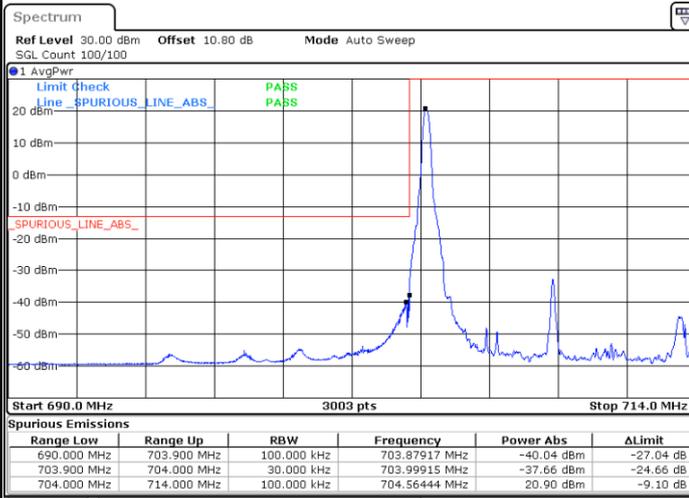


Date: 6 SEP.2017 19:16:56



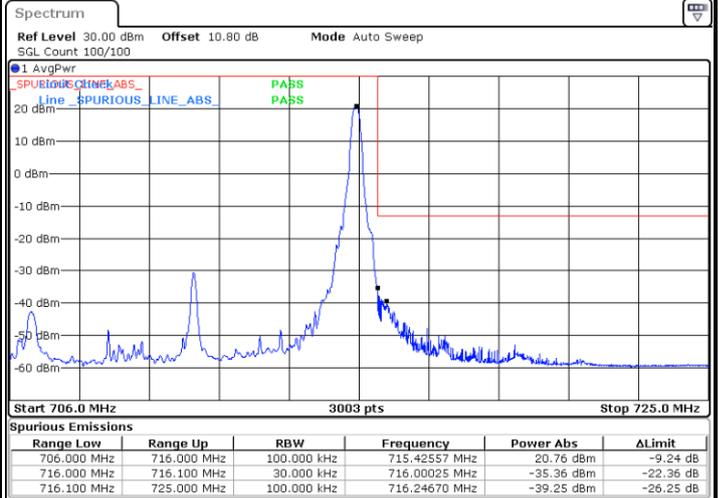
LTE Band 17 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



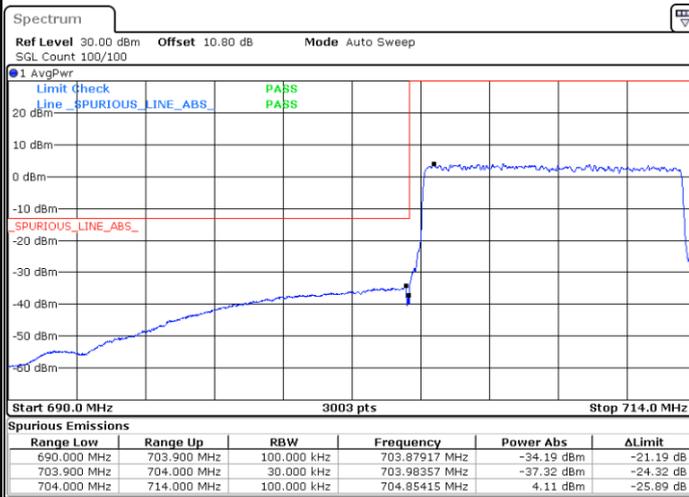
Date: 6 SEP.2017 19:06:17

Highest Band Edge / 1 RB



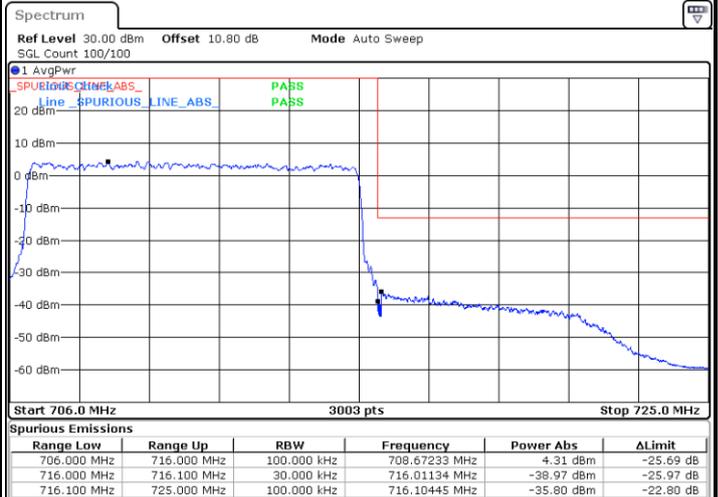
Date: 6 SEP.2017 19:15:48

Lowest Band Edge / Full RB



Date: 6 SEP.2017 19:08:35

Highest Band Edge / Full RB



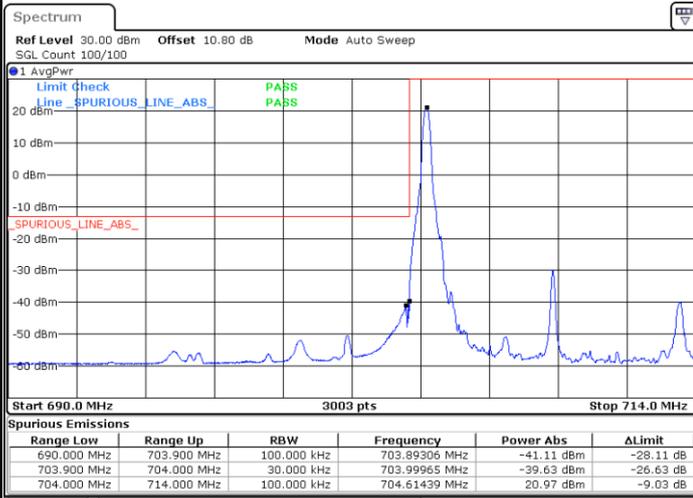
Date: 6 SEP.2017 19:18:05



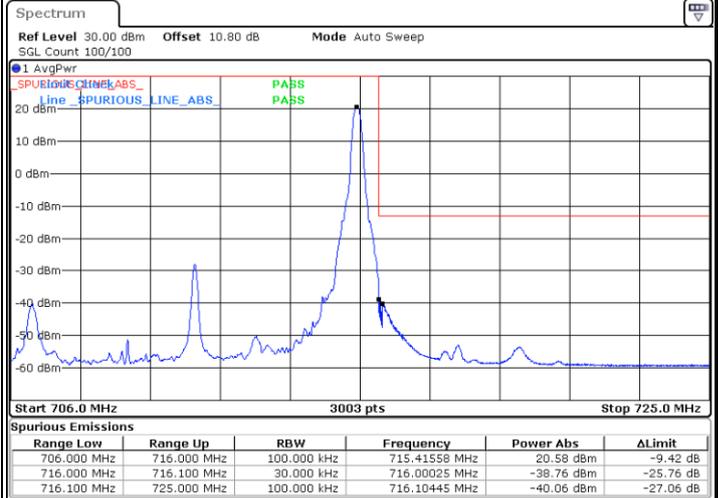
LTE Band 17 / 10MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



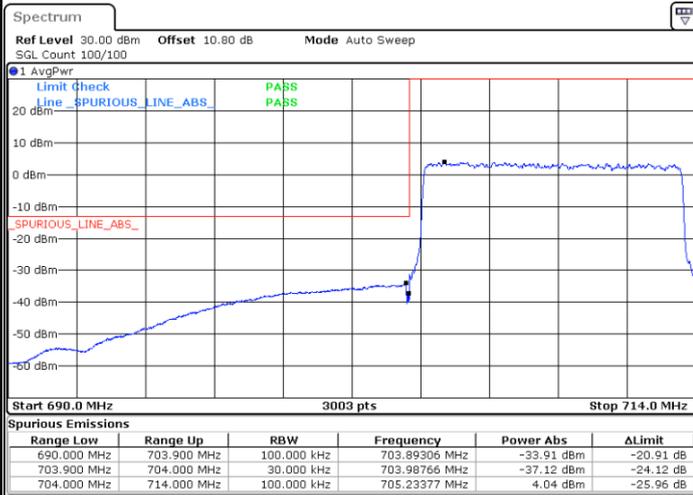
Date: 31.OCT.2017 20:26:12



Date: 31.OCT.2017 20:31:13

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 31.OCT.2017 20:27:22



Date: 31.OCT.2017 20:32:22



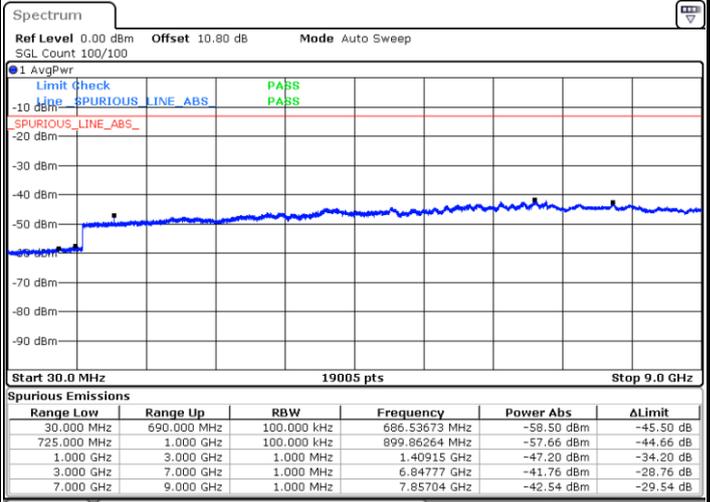
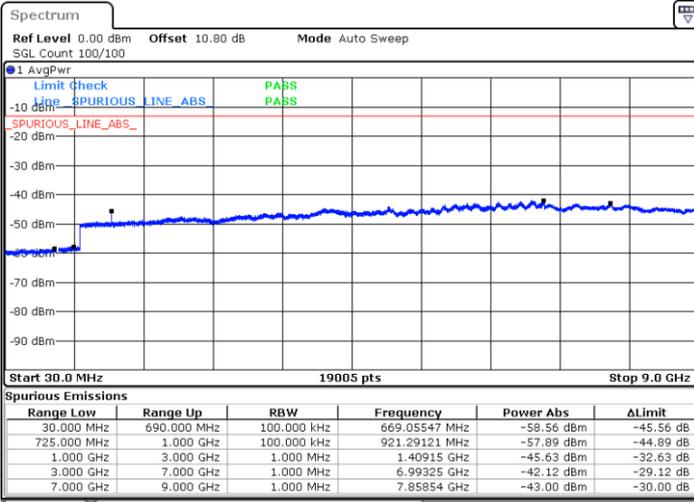
**Conducted Spurious Emission**



LTE Band 17 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

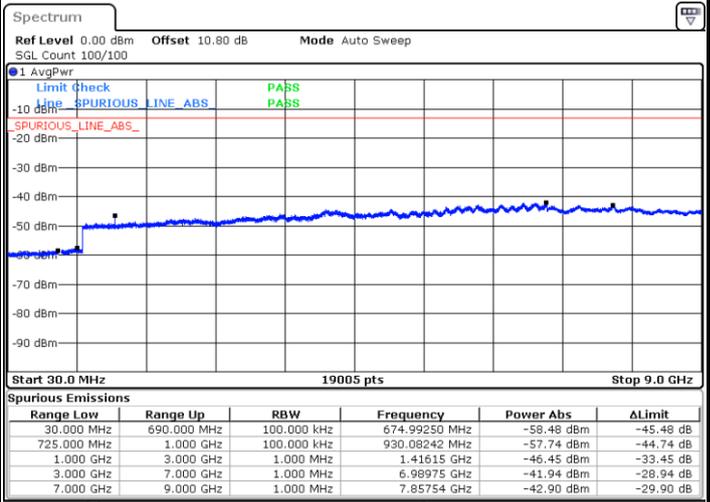
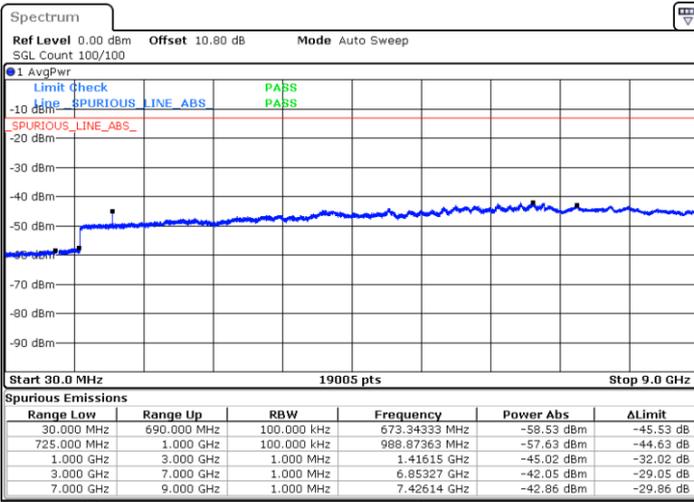


Date: 6 SEP.2017 18:52:57

Date: 6 SEP.2017 18:53:51

Middle Channel / QPSK

Middle Channel / 16QAM



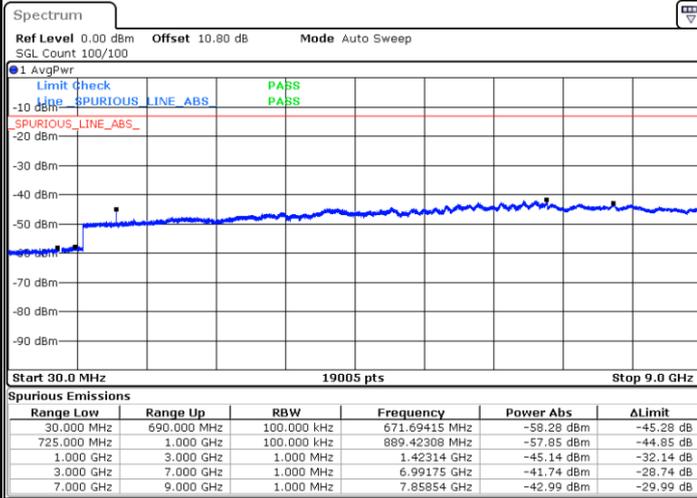
Date: 6 SEP.2017 18:55:25

Date: 6 SEP.2017 18:56:18



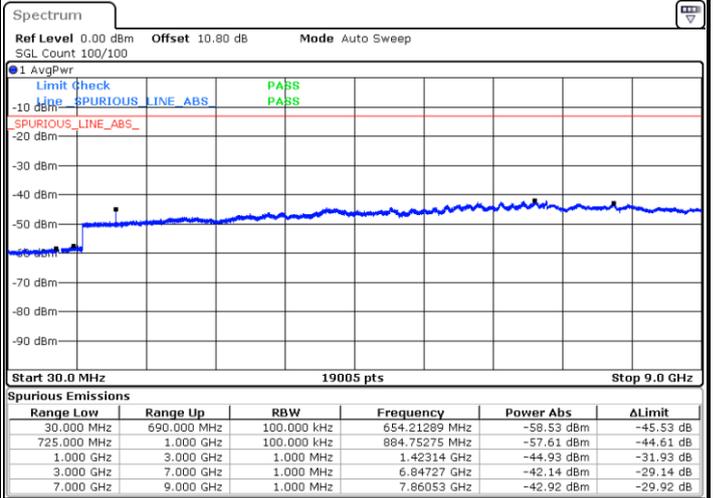
LTE Band 17 / 5MHz

Highest Channel / QPSK



Date: 6 SEP.2017 19:02:27

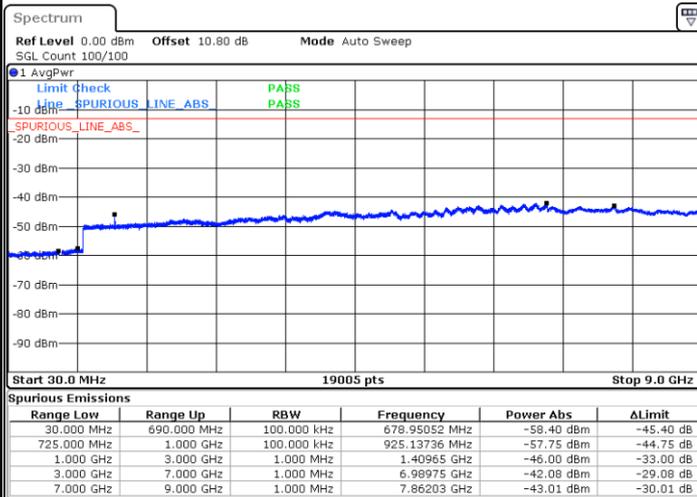
Highest Channel / 16QAM



Date: 6 SEP.2017 19:03:20

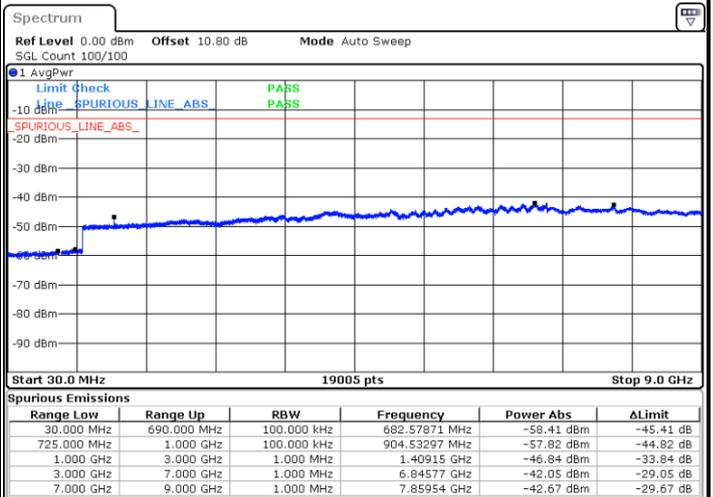
LTE Band 17 / 10MHz

Lowest Channel / QPSK



Date: 6 SEP.2017 19:09:29

Lowest Channel / 16QAM



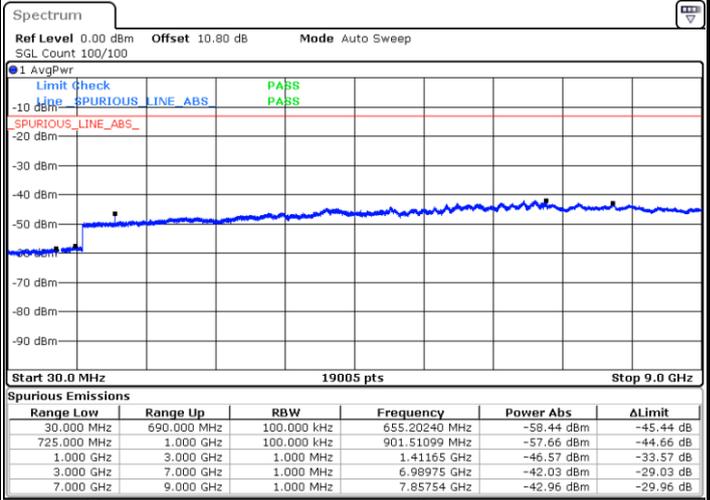
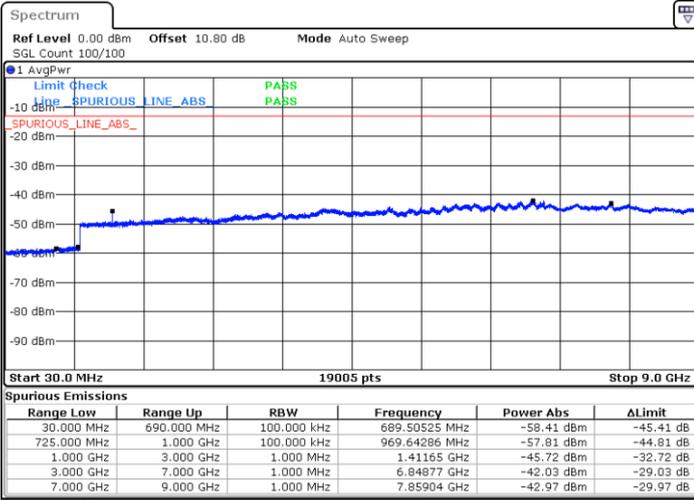
Date: 6 SEP.2017 19:10:23



LTE Band 17 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

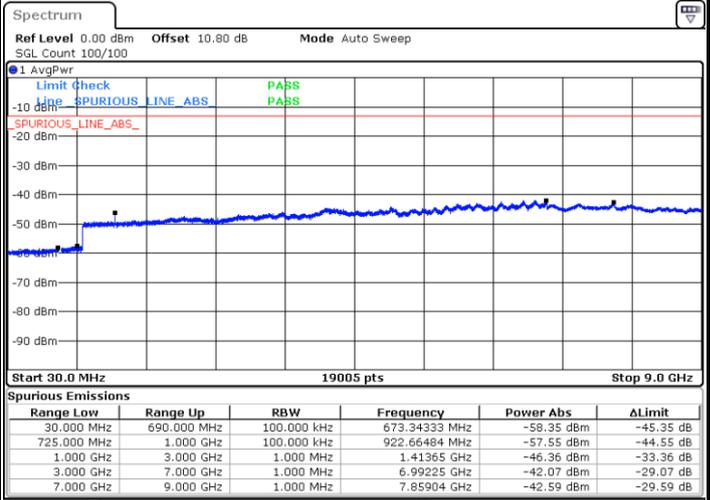
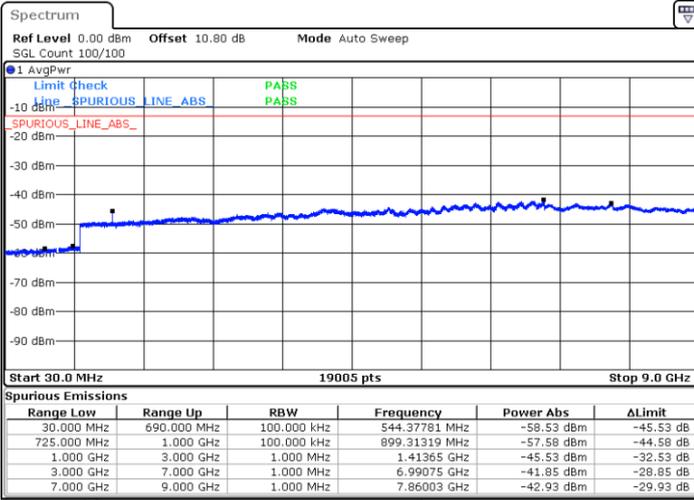


Date: 6 SEP.2017 19:11:57

Date: 6 SEP.2017 19:12:51

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 6 SEP.2017 19:18:59

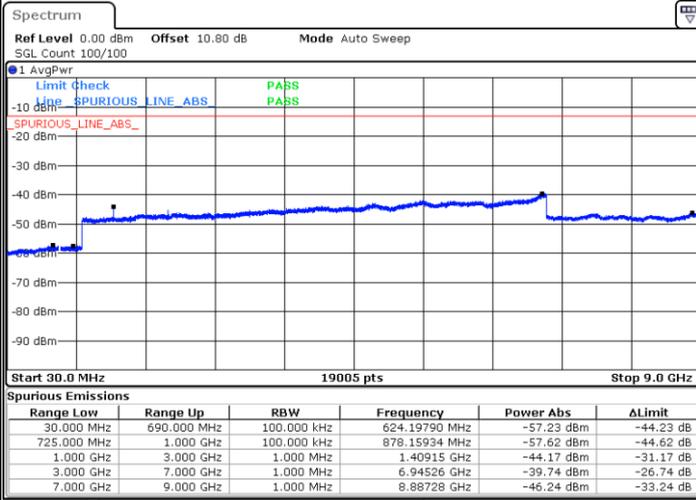
Date: 6 SEP.2017 19:19:53



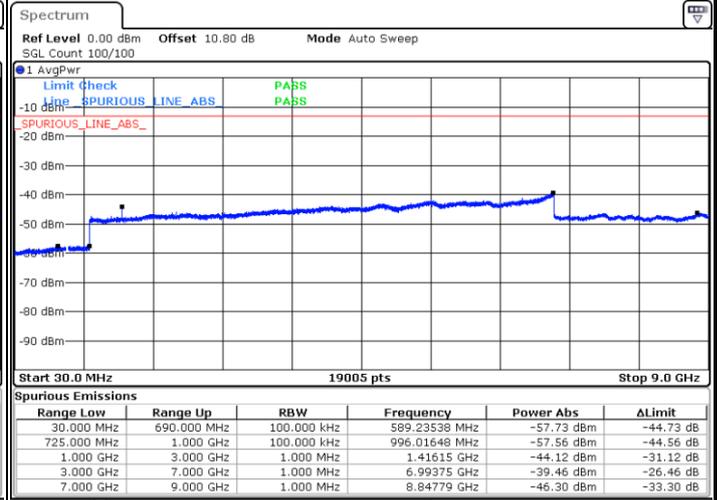
LTE Band 17 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

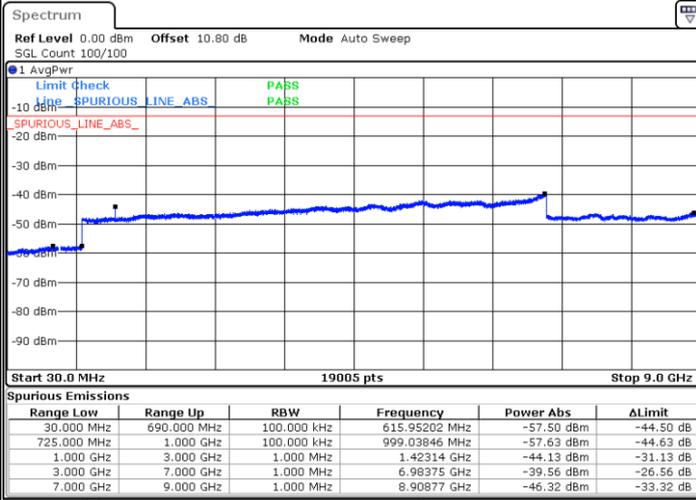


Date: 31.OCT.2017 20:19:40



Date: 31.OCT.2017 20:21:01

Highest Channel / 64QAM

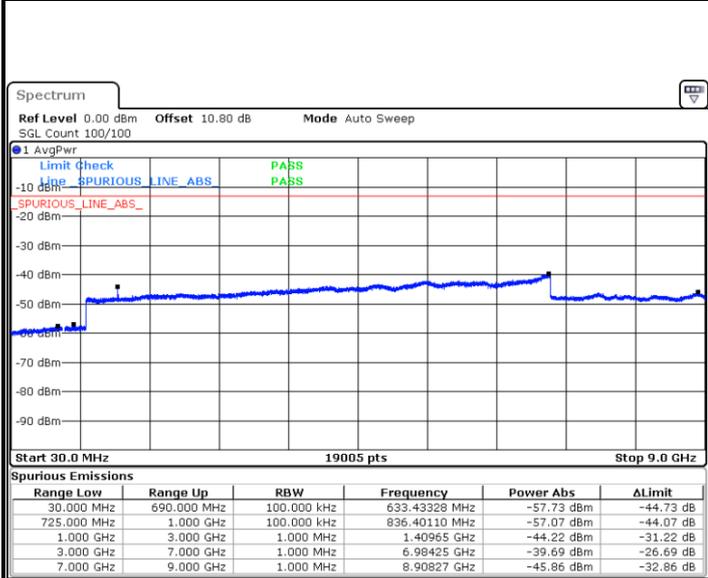


Date: 31.OCT.2017 20:24:40



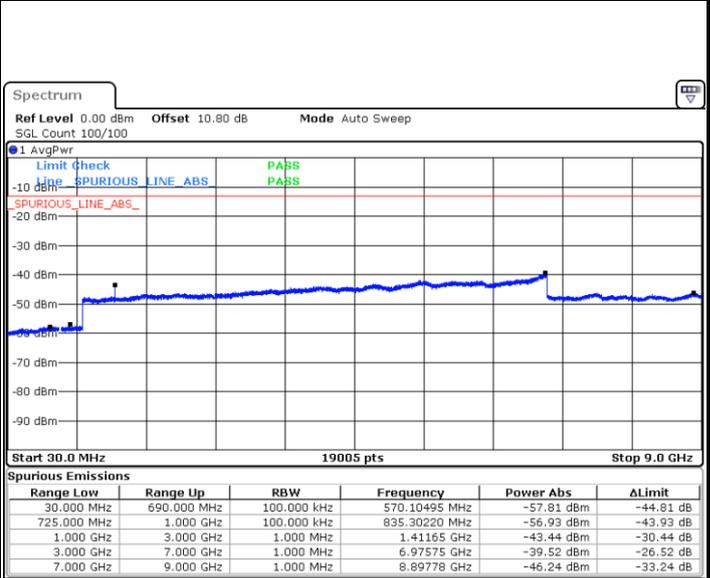
**LTE Band 17 / 10MHz**

**Lowest Channel / 64QAM**



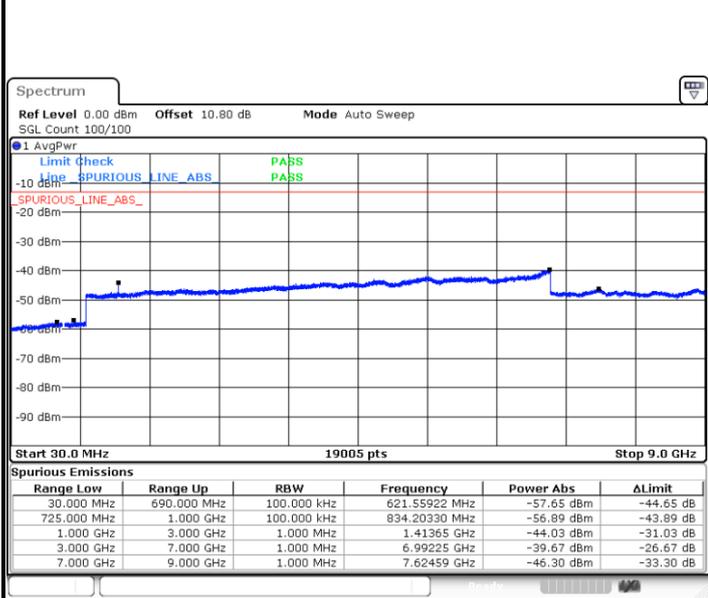
Date: 31.OCT.2017 20:28:19

**Middle Channel / 64QAM**



Date: 31.OCT.2017 20:29:40

**Highest Channel / 64QAM**



Date: 31.OCT.2017 20:33:19



**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	0.0030	PASS
40	Normal Voltage	0.0030	
30	Normal Voltage	0.0096	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0111	
0	Normal Voltage	0.0113	
-10	Normal Voltage	0.0107	
-20	Normal Voltage	0.0018	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0015	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0103	

**Note:**

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 25

## Peak-to-Average Ratio

Mode	LTE Band 25 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.61	5.3	5.88	6.32	<b>PASS</b>
Middle CH	5.57	5.07	6.14	6.26	
Highest CH	4.06	5.1	5.22	6.32	
Mode	LTE Band 25 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.16	6.2	-	-	<b>PASS</b>
Middle CH	6.09	6.14	-	-	
Highest CH	4.93	6.23	-	-	