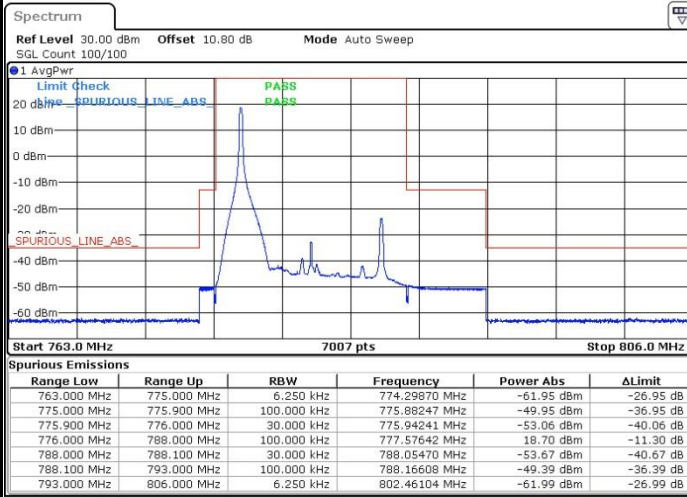




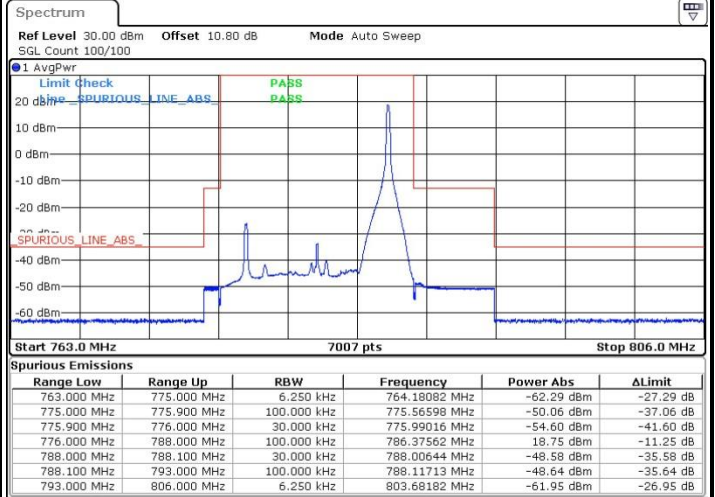
LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



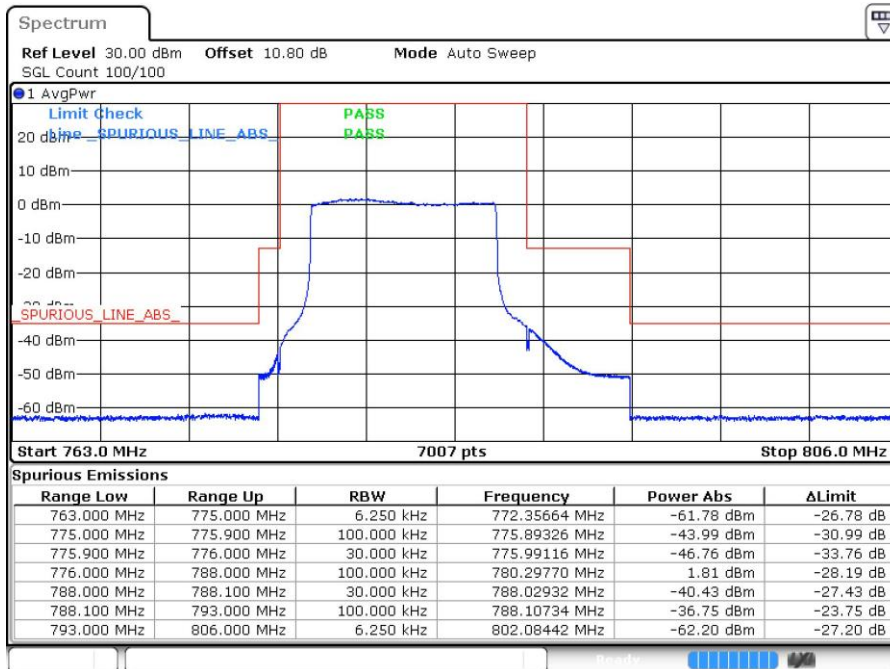
Date: 13 JUN 2018 11:44:20

Highest Band Edge / 1 RB



Date: 13 JUN 2018 11:49:18

Band Edge / Full RB



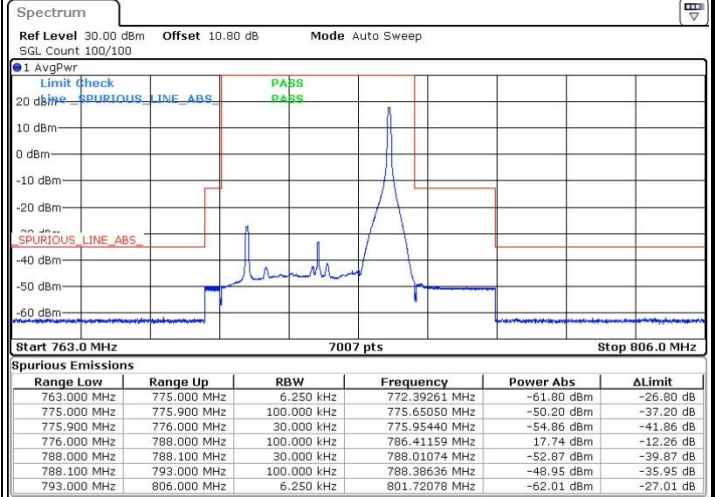
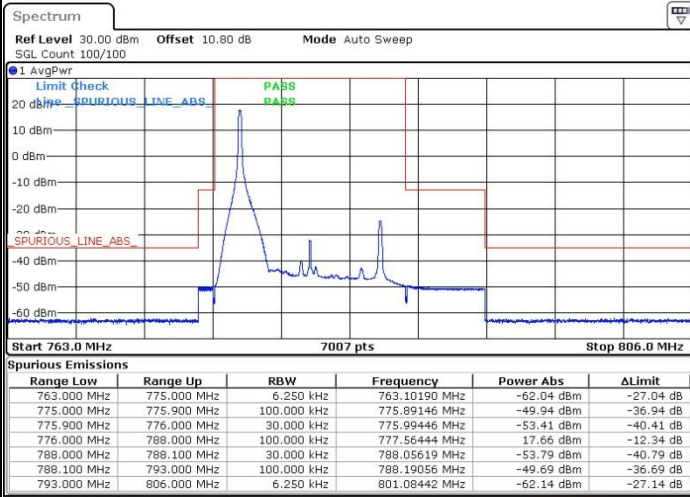
Date: 13 JUN 2018 11:42:41



LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB

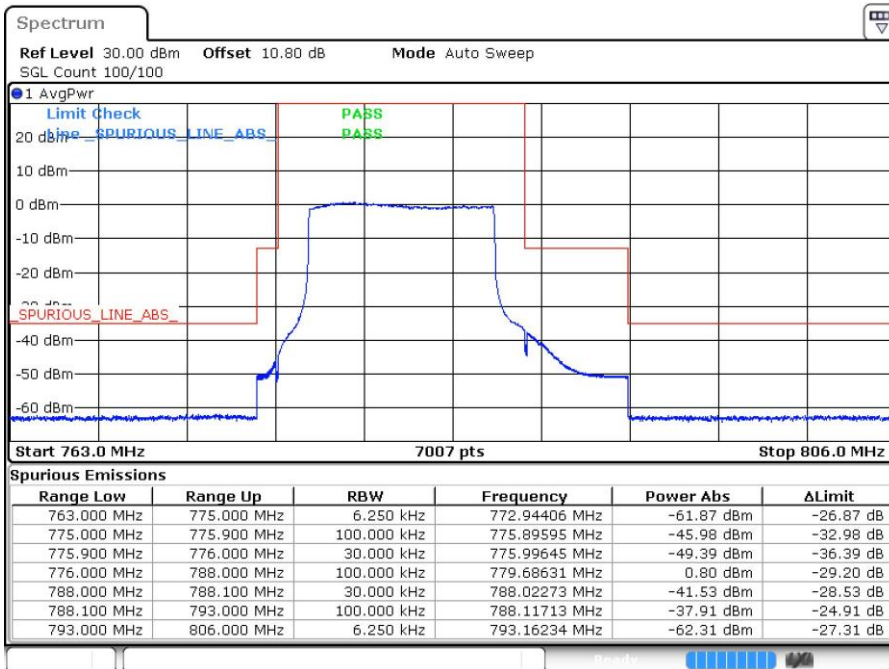
Highest Band Edge / 1 RB



Date: 13 JUN 2018 11:54:46

Date: 13 JUN 2018 11:56:26

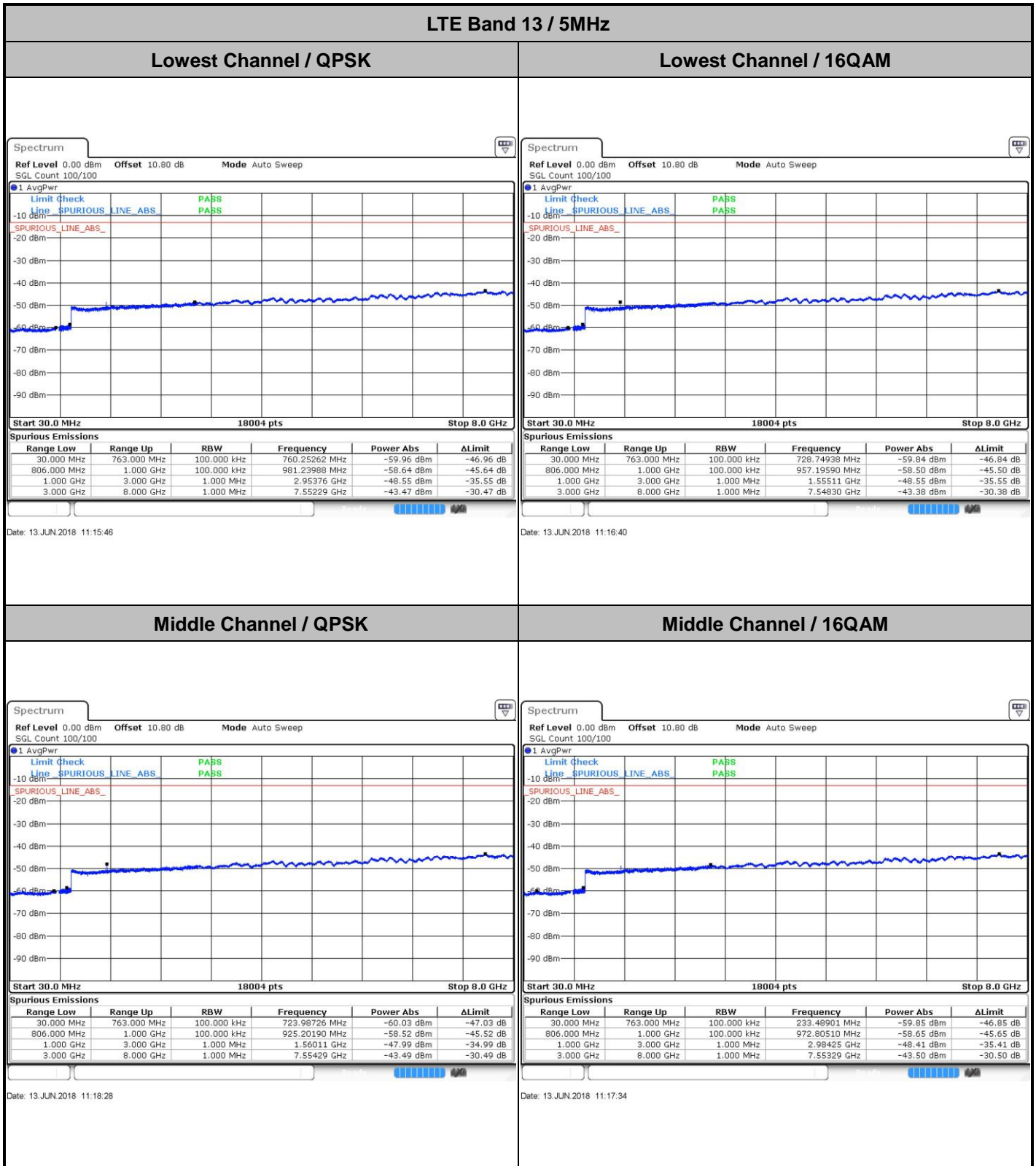
Band Edge / Full RB



Date: 13 JUN 2018 11:53:07



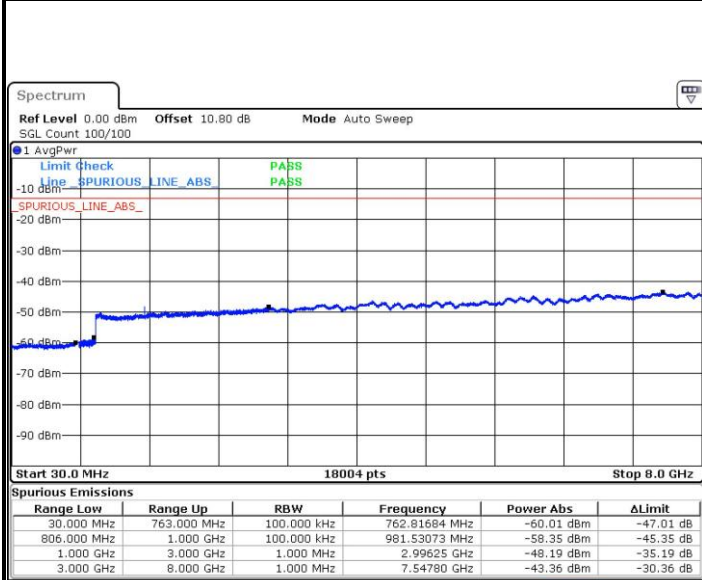
Conducted Spurious Emission





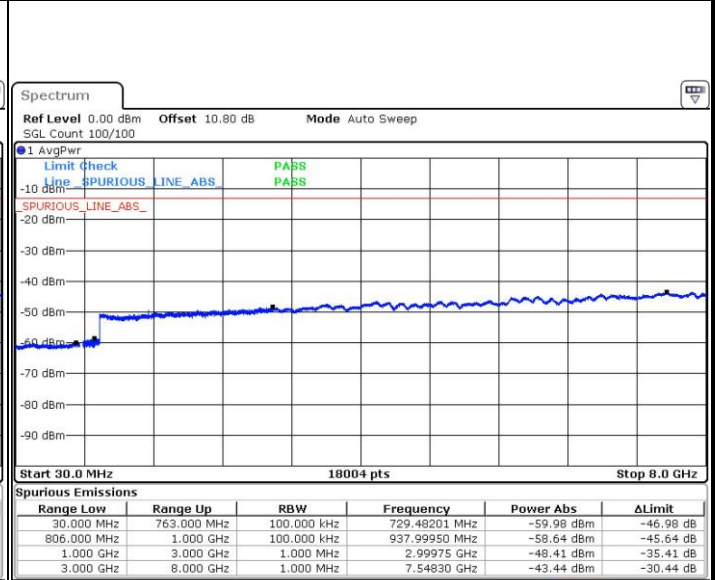
LTE Band 13 / 5MHz

Highest Channel / QPSK



Date: 13 JUN 2018 11:27:24

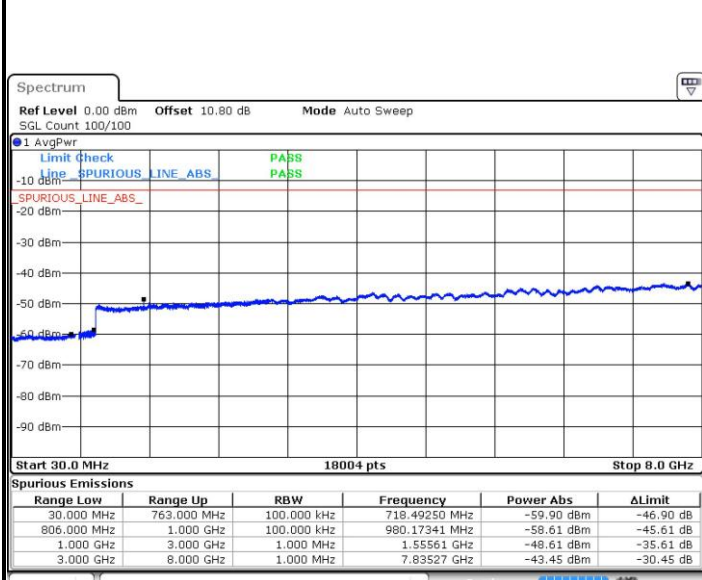
Highest Channel / 16QAM



Date: 13 JUN 2018 11:28:18

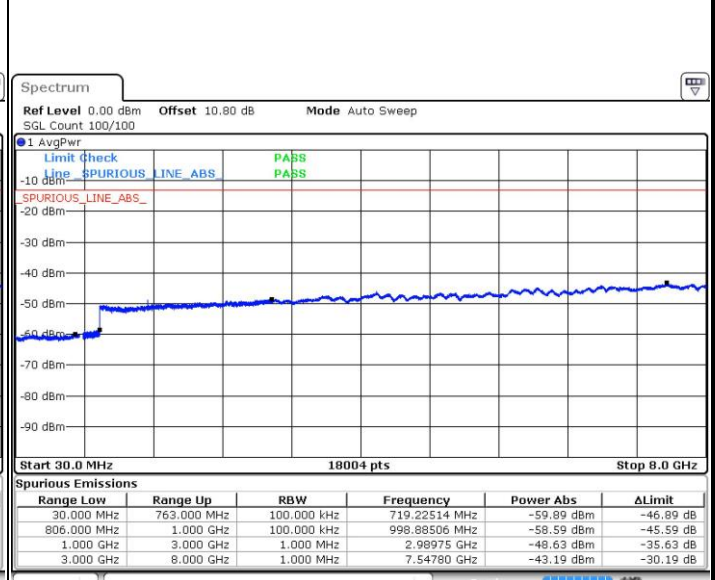
LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 13 JUN 2018 11:51:07

Middle Channel / 16QAM

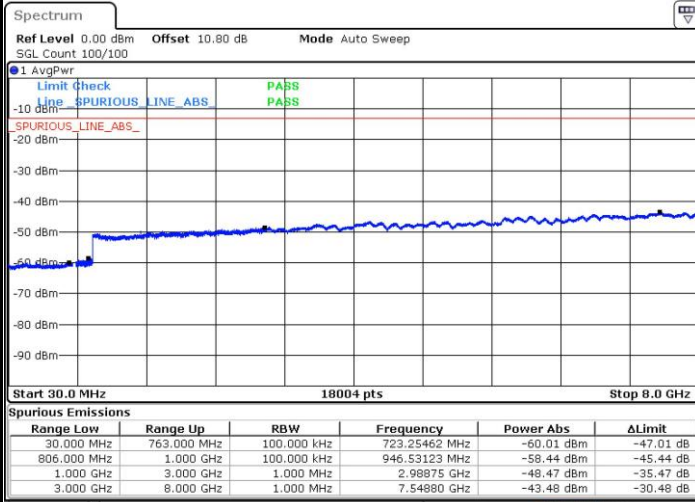


Date: 13 JUN 2018 11:50:13



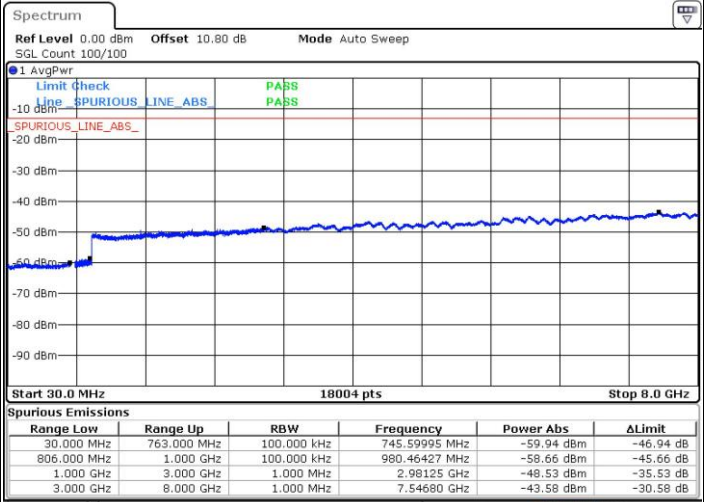
LTE Band 13 / 5MHz

Lowest Channel / 64QAM



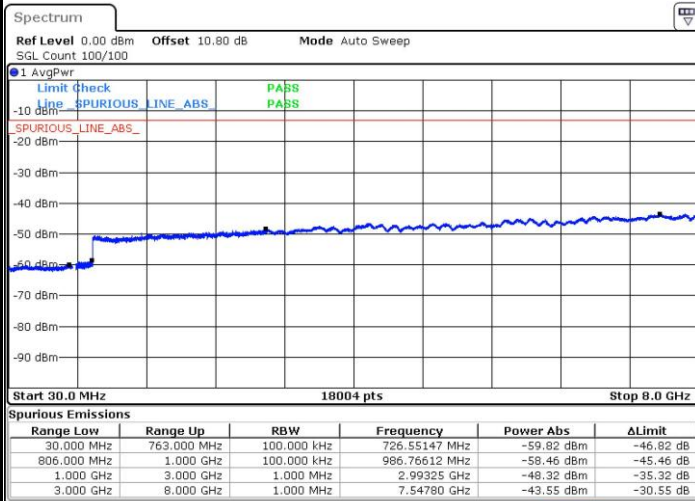
Date: 13 JUN 2018 11:32:52

Middle Channel / 64QAM



Date: 13 JUN 2018 11:33:46

Highest Channel / 64QAM

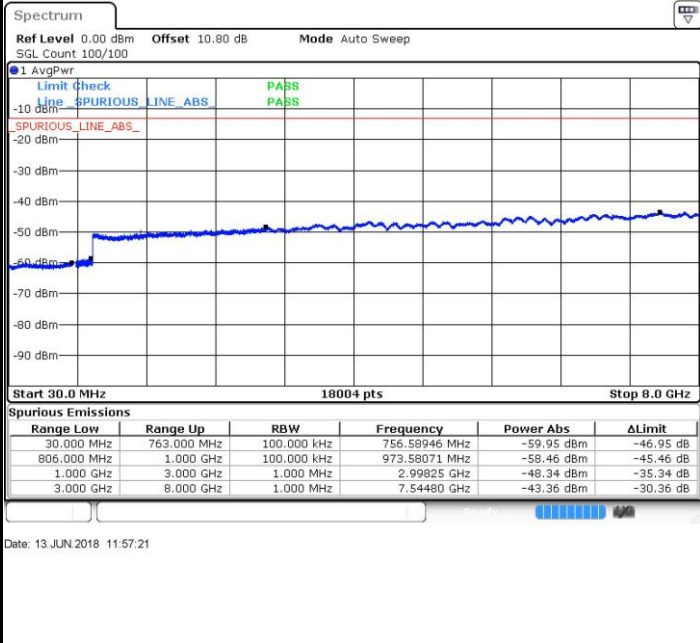


Date: 13 JUN 2018 11:38:41



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	0.0088	PASS
40	Normal Voltage	0.0058	
30	Normal Voltage	0.0013	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0019	
0	Normal Voltage	0.0003	
-10	Normal Voltage	0.0009	
-20	Normal Voltage	0.0026	
-30	Normal Voltage	0.0015	
20	Maximum Voltage	0.0038	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0040	

Note:

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



LTE Band 17

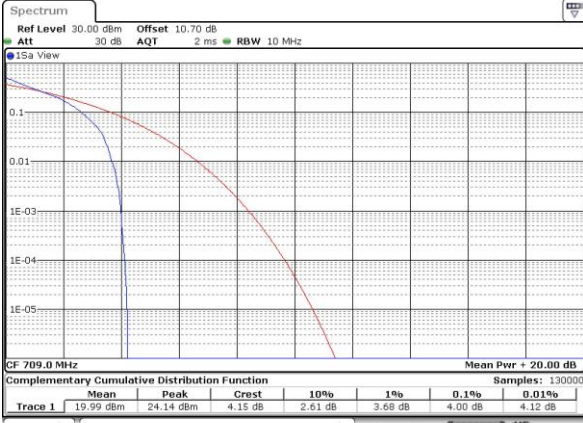
Peak-to-Average Ratio

Mode	LTE Band 17 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4	5.07	5.01	6.03	PASS
Middle CH	4.26	4.96	5.19	6	
Highest CH	4.72	4.93	5.51	5.97	
Mode	LTE Band 17 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.57	6.38	-	-	PASS
Middle CH	6.38	6.26	-	-	
Highest CH	6.14	6.35	-	-	



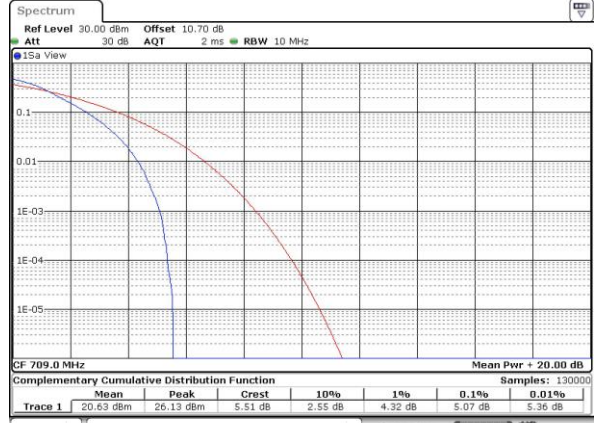
LTE Band 17 / 10MHz / QPSK

Lowest Channel / 1RB



Date: 13 JUN 2018 11:01:05

Lowest Channel / Full RB



Date: 13 JUN 2018 11:01:32

Middle Channel / 1RB



Date: 13 JUN 2018 11:01:42

Middle Channel / Full RB



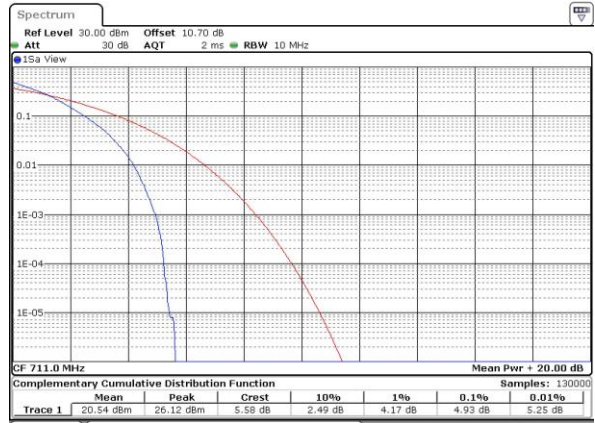
Date: 13 JUN 2018 11:01:57

Highest Channel / 1RB



Date: 13 JUN 2018 11:02:07

Highest Channel / Full RB

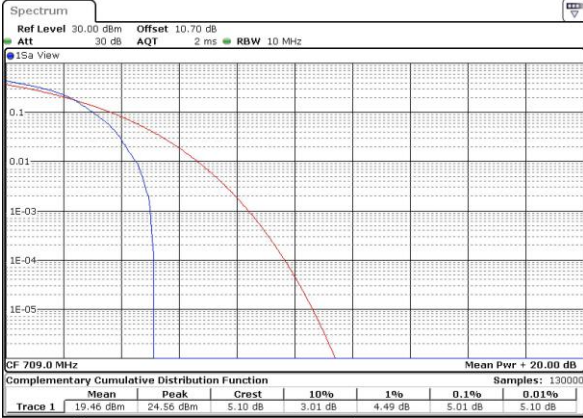


Date: 13 JUN 2018 11:02:29



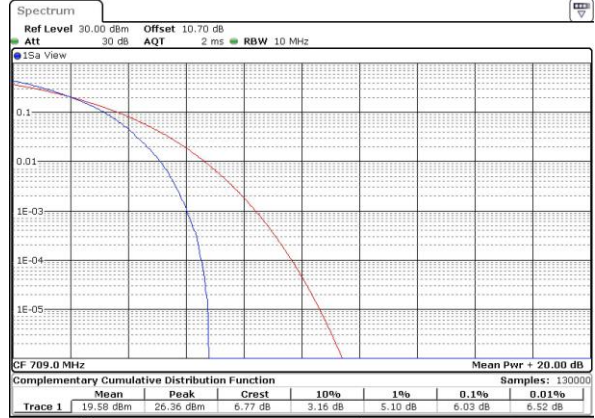
LTE Band 17 / 10MHz / 16QAM

Lowest Channel / 1RB



Date: 13 JUN 2018 11:00:01

Lowest Channel / Full RB



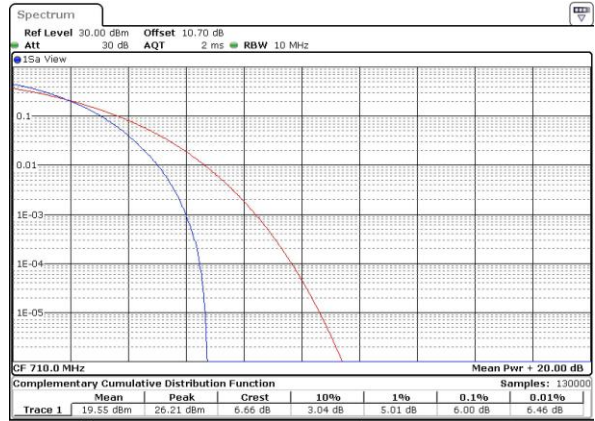
Date: 13 JUN 2018 11:00:11

Middle Channel / 1RB



Date: 13 JUN 2018 11:00:24

Middle Channel / Full RB



Date: 13 JUN 2018 11:00:35

Highest Channel / 1RB



Date: 13 JUN 2018 11:00:45

Highest Channel / Full RB

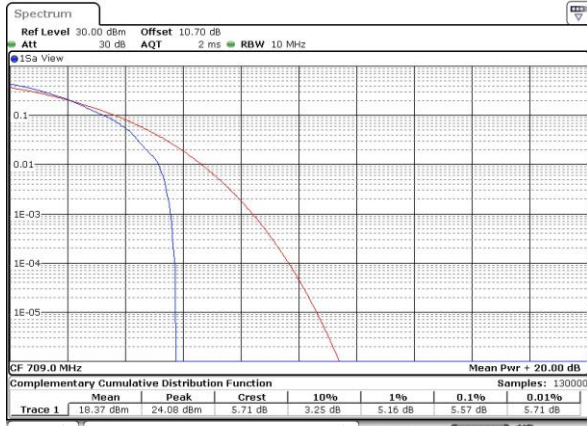


Date: 13 JUN 2018 11:00:55



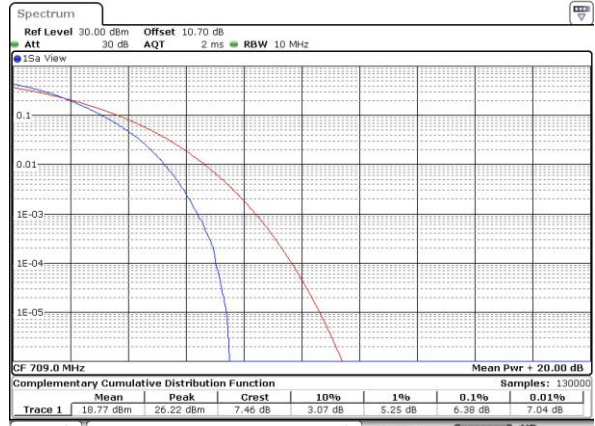
LTE Band 17 / 10MHz / 64QAM

Lowest Channel / 1RB



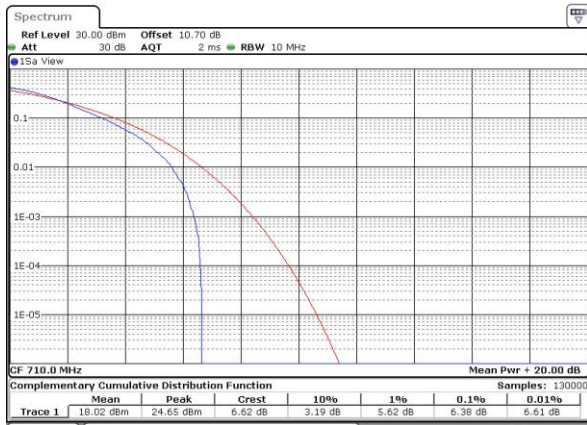
Date: 13 JUN 2018 11:02:45

Lowest Channel / Full RB



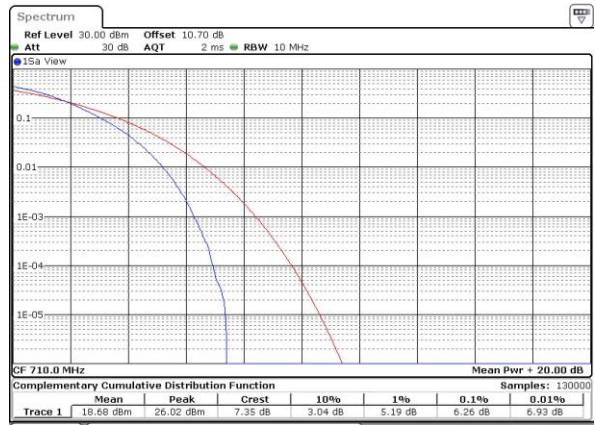
Date: 13 JUN 2018 11:02:59

Middle Channel / 1RB



Date: 13 JUN 2018 11:03:19

Middle Channel / Full RB



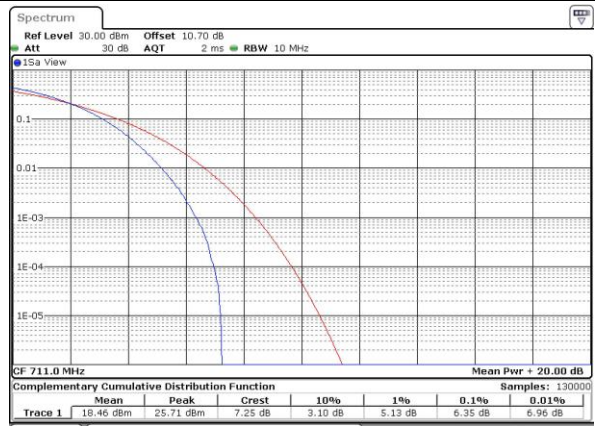
Date: 13 JUN 2018 11:03:48

Highest Channel / 1RB



Date: 13 JUN 2018 11:04:15

Highest Channel / Full RB



Date: 13 JUN 2018 11:04:25



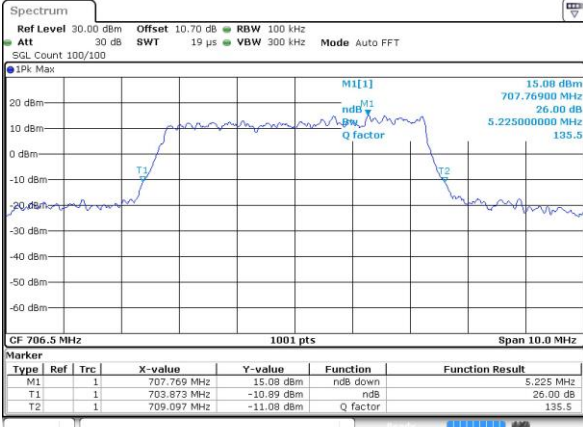
26dB Bandwidth

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	-	-	-	-	5.23	4.98	9.79	9.99	-	-	-	-
Middle CH	-	-	-	-	5.03	4.98	9.63	9.87	-	-	-	-
Highest CH	-	-	-	-	4.93	5.12	9.67	9.61	-	-	-	-
Mode	LTE Band 17 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	5.07	-	10.01	-	-	-	-	-
Middle CH	-	-	-	-	4.99	-	9.71	-	-	-	-	-
Highest CH	-	-	-	-	4.92	-	9.77	-	-	-	-	-



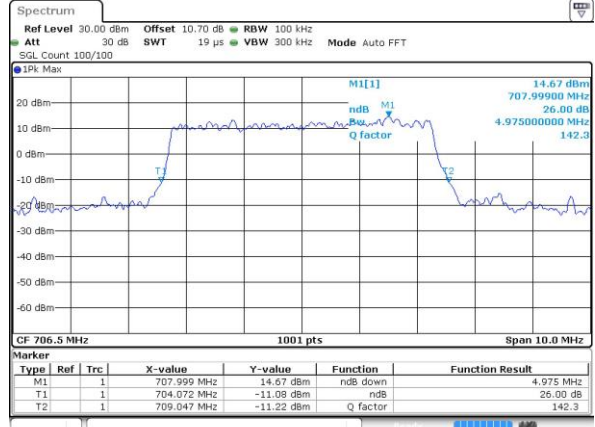
LTE Band 17

Lowest Channel / 5MHz / QPSK



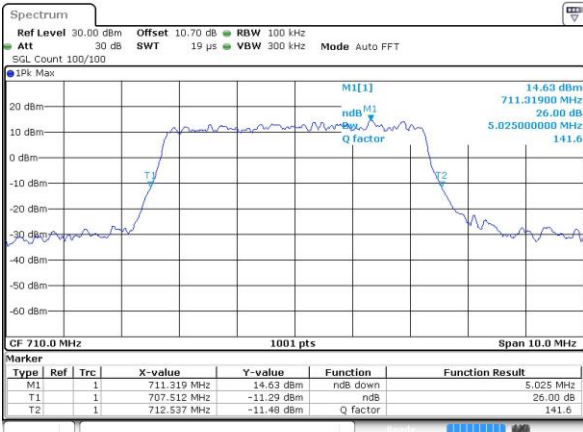
Date: 13 JUN 2018 10:09:44

Lowest Channel / 5MHz / 16QAM



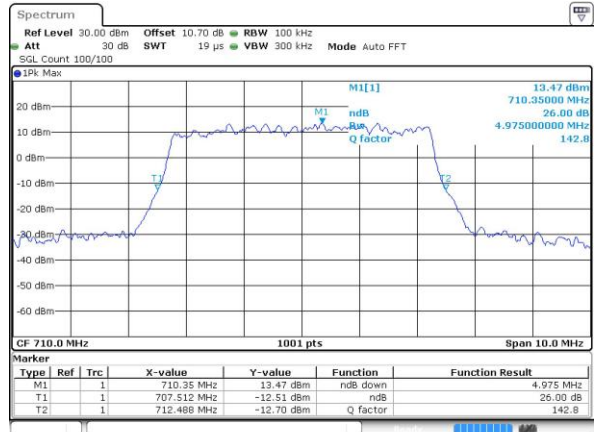
Date: 13 JUN 2018 10:09:55

Middle Channel / 5MHz / QPSK



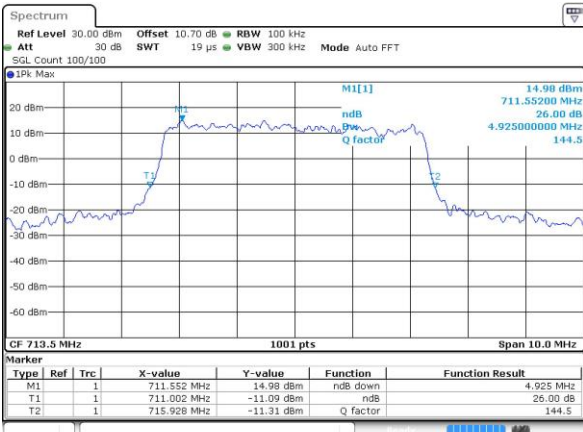
Date: 13 JUN 2018 10:16:52

Middle Channel / 5MHz / 16QAM



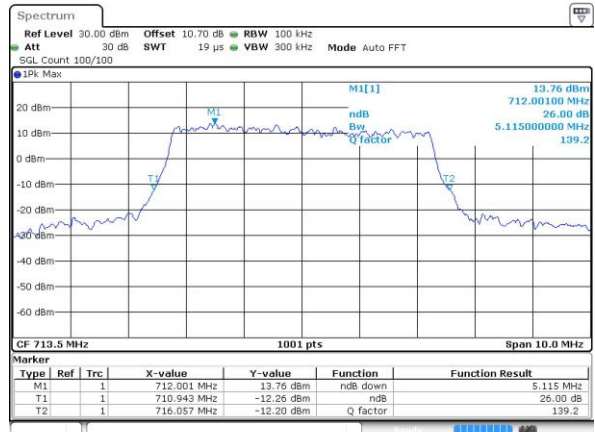
Date: 13 JUN 2018 10:17:03

Highest Channel / 5MHz / QPSK



Date: 13 JUN 2018 10:19:23

Highest Channel / 5MHz / 16QAM

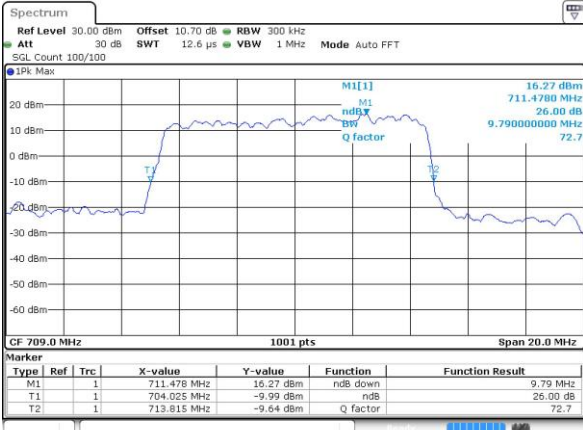


Date: 13 JUN 2018 10:19:33



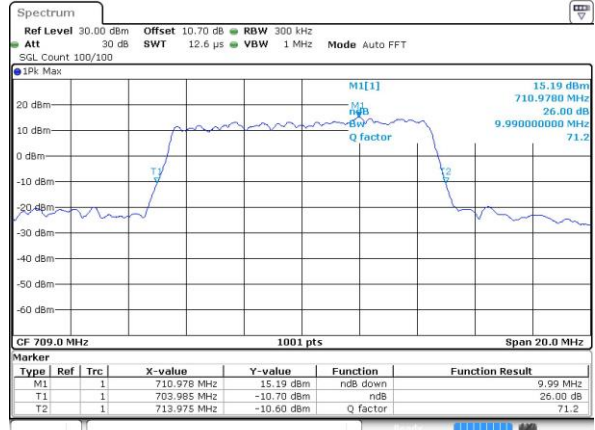
LTE Band 17

Lowest Channel / 10MHz / QPSK



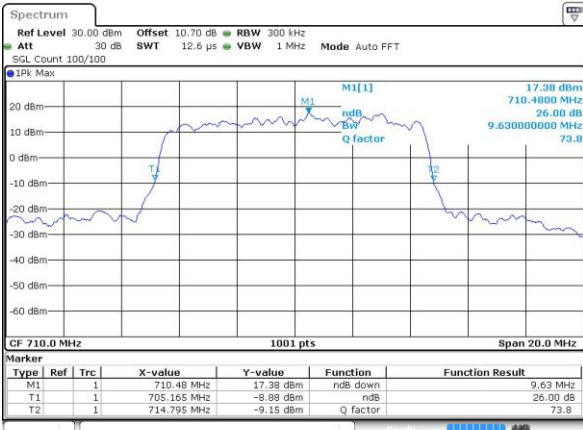
Date: 13 JUN 2018 10:26:30

Lowest Channel / 10MHz / 16QAM



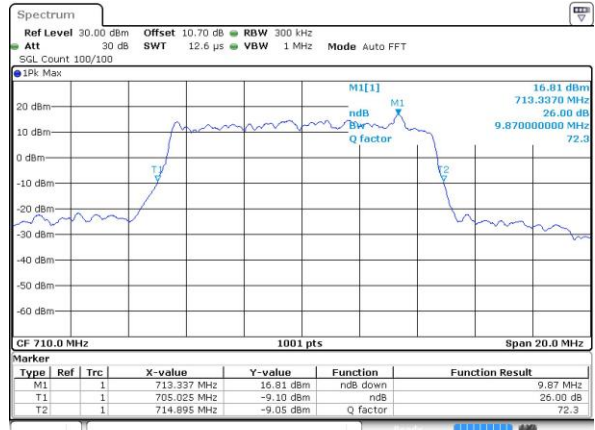
Date: 13 JUN 2018 10:26:41

Middle Channel / 10MHz / QPSK



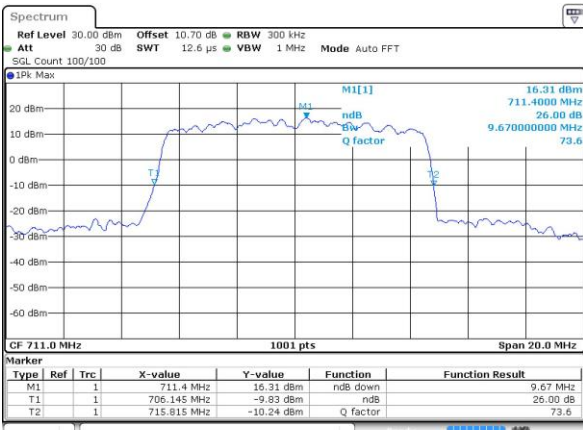
Date: 13 JUN 2018 10:33:38

Middle Channel / 10MHz / 16QAM



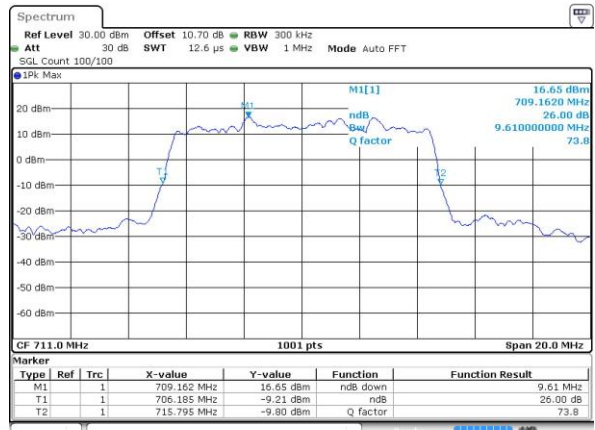
Date: 13 JUN 2018 10:33:48

Highest Channel / 10MHz / QPSK



Date: 13 JUN 2018 10:36:08

Highest Channel / 10MHz / 16QAM

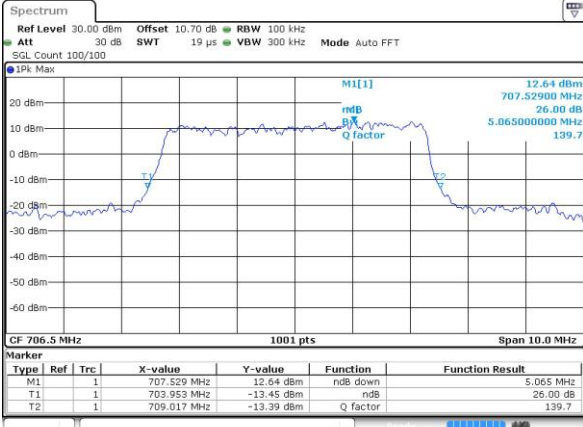


Date: 13 JUN 2018 10:36:19



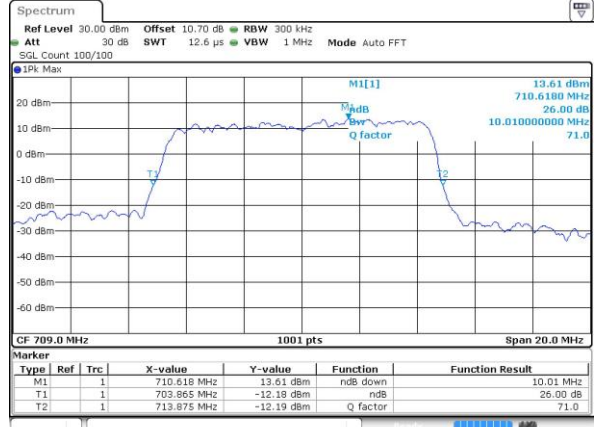
LTE Band 17

Lowest Channel / 5MHz / 64QAM



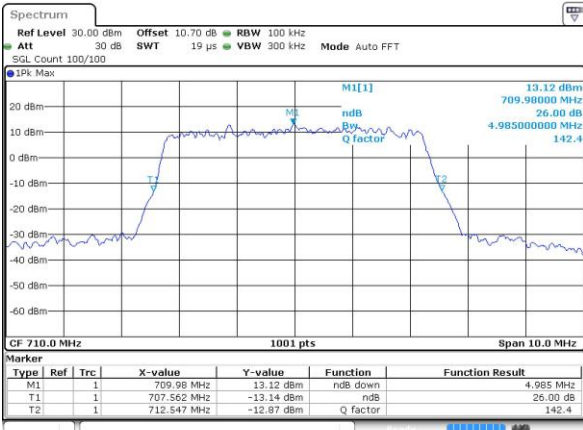
Date: 13 JUN 2018 10:43:05

Lowest Channel / 10MHz / 64QAM



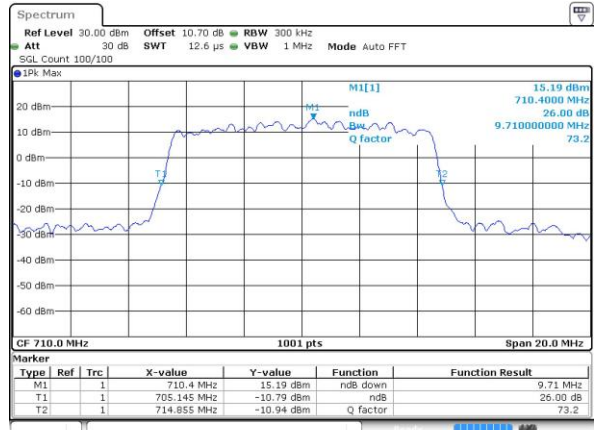
Date: 13 JUN 2018 10:51:28

Middle Channel / 5MHz / 64QAM



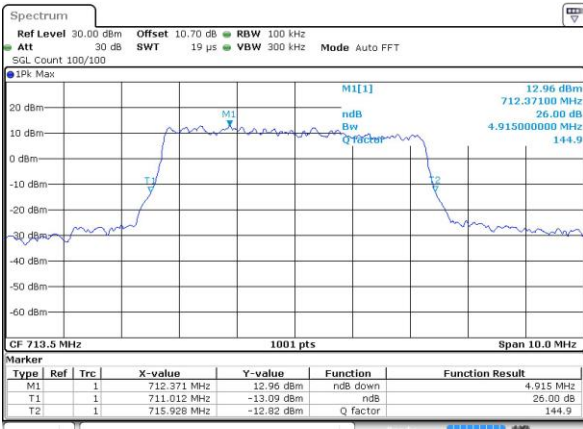
Date: 13 JUN 2018 10:46:39

Middle Channel / 10MHz / 64QAM



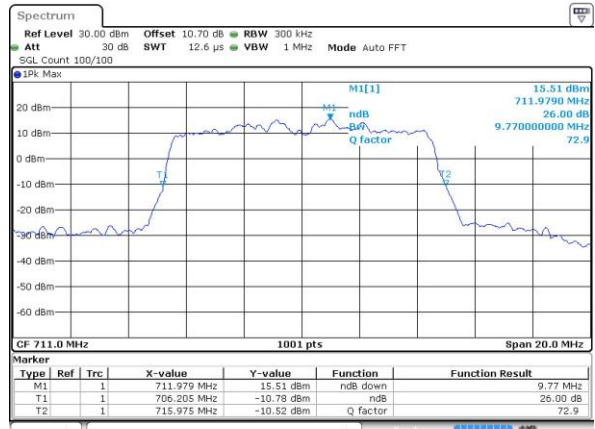
Date: 13 JUN 2018 10:55:02

Highest Channel / 5MHz / 64QAM



Date: 13 JUN 2018 10:47:54

Highest Channel / 10MHz / 64QAM



Date: 13 JUN 2018 10:56:18



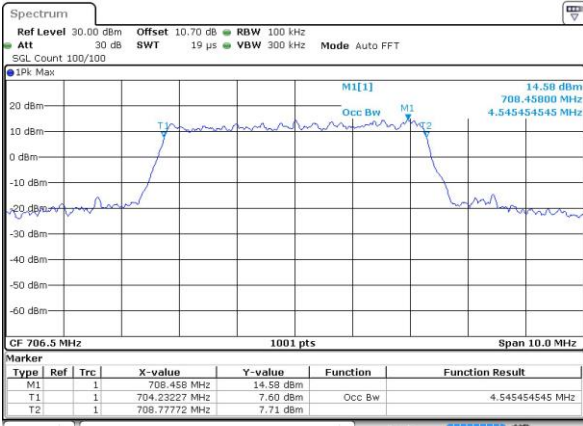
Occupied Bandwidth

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	-	-	-	-	4.55	4.49	8.99	8.95	-	-	-	-
Middle CH	-	-	-	-	4.49	4.46	8.99	8.87	-	-	-	-
Highest CH	-	-	-	-	4.51	4.49	8.97	8.97	-	-	-	-
Mode	LTE Band 17 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.54	-	8.99	-	-	-	-	-
Middle CH	-	-	-	-	4.50	-	8.95	-	-	-	-	-
Highest CH	-	-	-	-	4.50	-	8.89	-	-	-	-	-



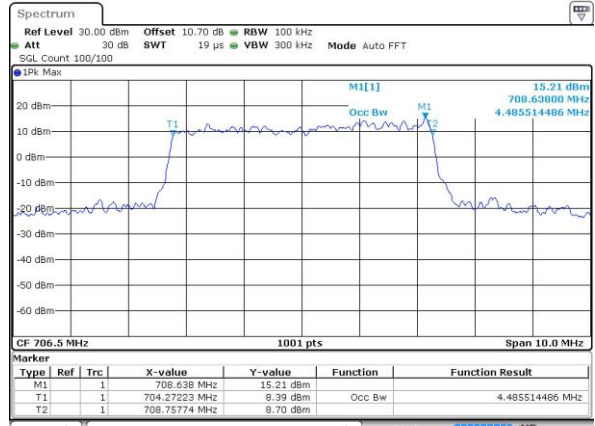
LTE Band 17

Lowest Channel / 5MHz / QPSK



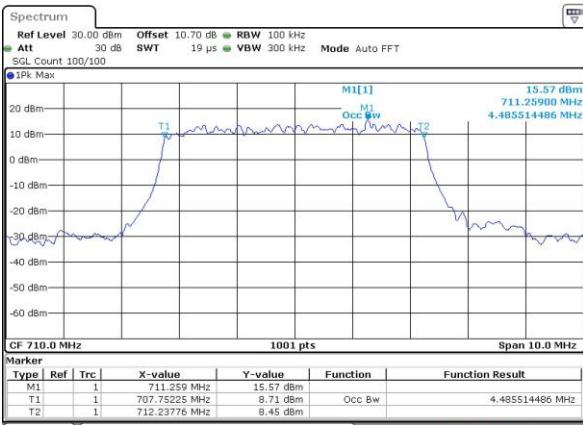
Date: 13 JUN 2018 10:09:23

Lowest Channel / 5MHz / 16QAM



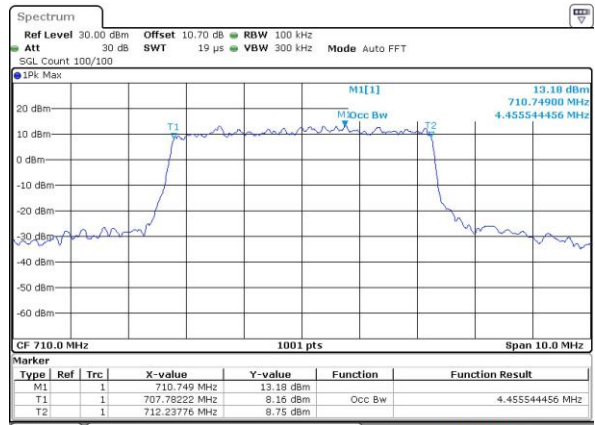
Date: 13 JUN 2018 10:09:34

Middle Channel / 5MHz / QPSK



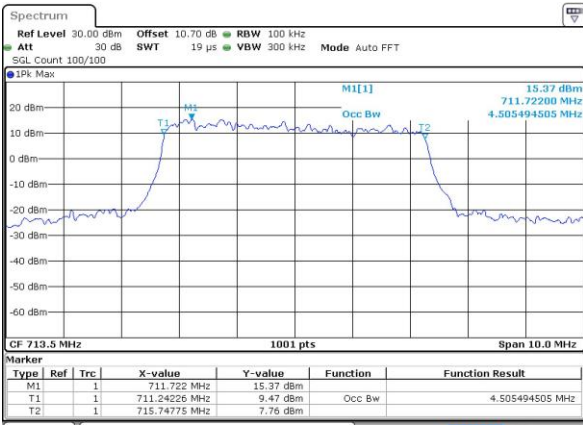
Date: 13 JUN 2018 10:16:31

Middle Channel / 5MHz / 16QAM



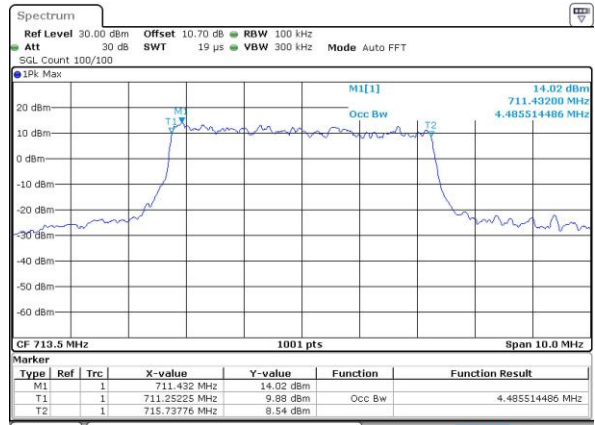
Date: 13 JUN 2018 10:16:42

Highest Channel / 5MHz / QPSK



Date: 13 JUN 2018 10:19:02

Highest Channel / 5MHz / 16QAM

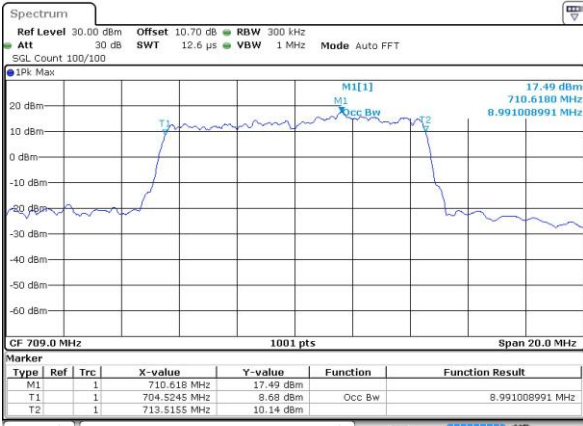


Date: 13 JUN 2018 10:19:12



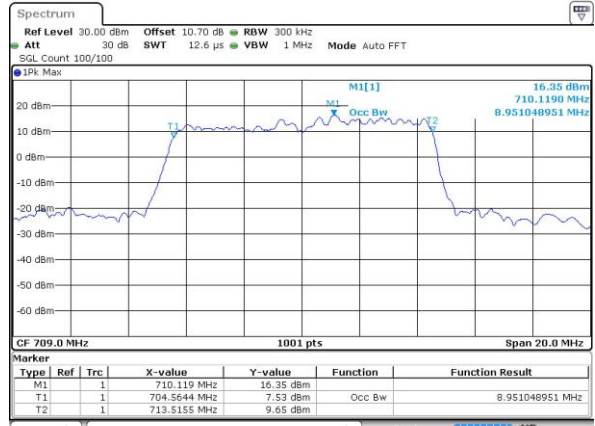
LTE Band 17

Lowest Channel / 10MHz / QPSK



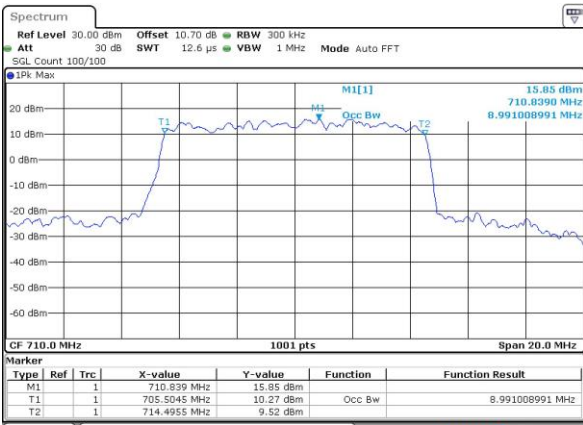
Date: 13 JUN 2018 10:28:09

Lowest Channel / 10MHz / 16QAM



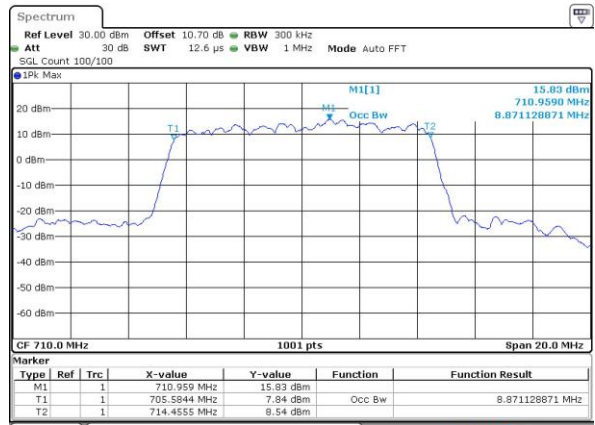
Date: 13 JUN 2018 10:26:20

Middle Channel / 10MHz / QPSK



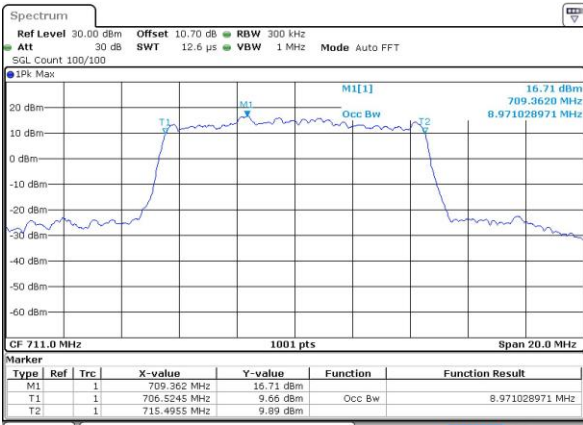
Date: 13 JUN 2018 10:33:17

Middle Channel / 10MHz / 16QAM



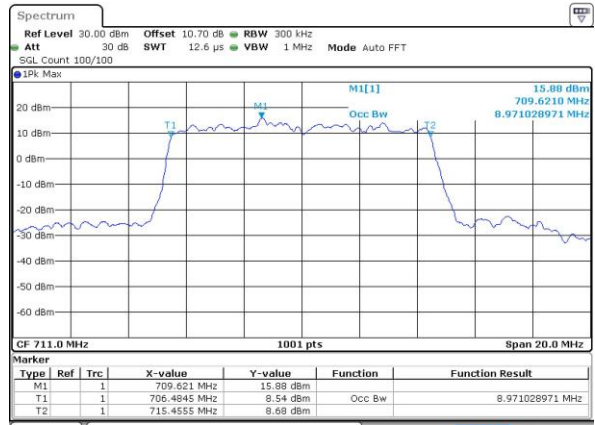
Date: 13 JUN 2018 10:33:27

Highest Channel / 10MHz / QPSK



Date: 13 JUN 2018 10:35:47

Highest Channel / 10MHz / 16QAM

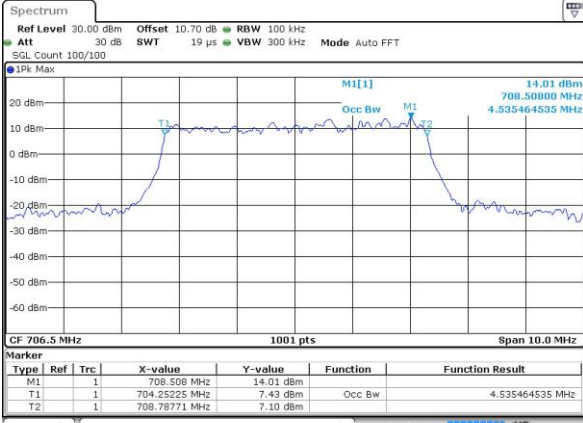


Date: 13 JUN 2018 10:35:58



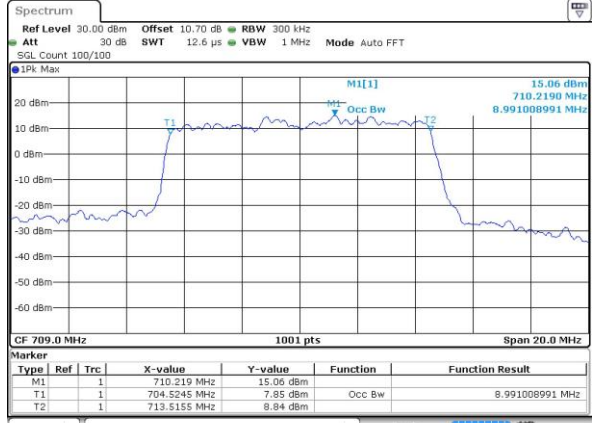
LTE Band 17

Lowest Channel / 5MHz / 64QAM



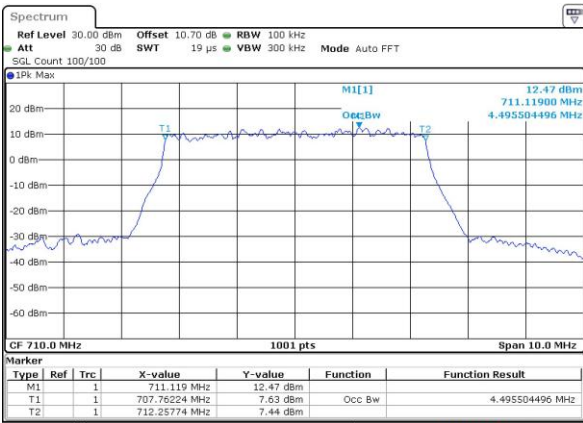
Date: 13 JUN 2018 10:42:54

Lowest Channel / 10MHz / 64QAM



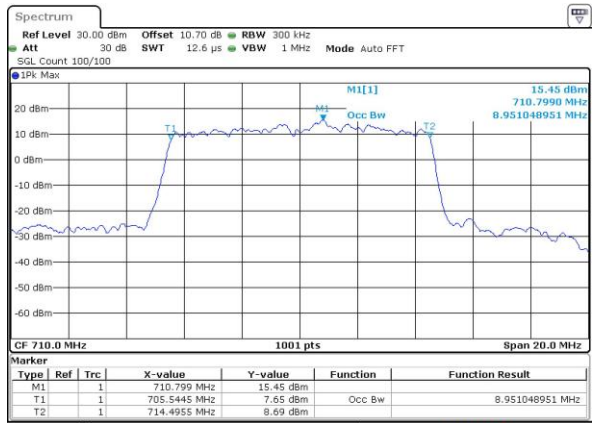
Date: 13 JUN 2018 10:51:18

Middle Channel / 5MHz / 64QAM



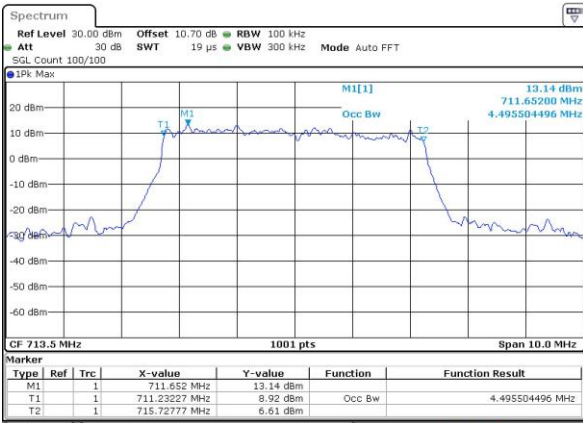
Date: 13 JUN 2018 10:46:28

Middle Channel / 10MHz / 64QAM



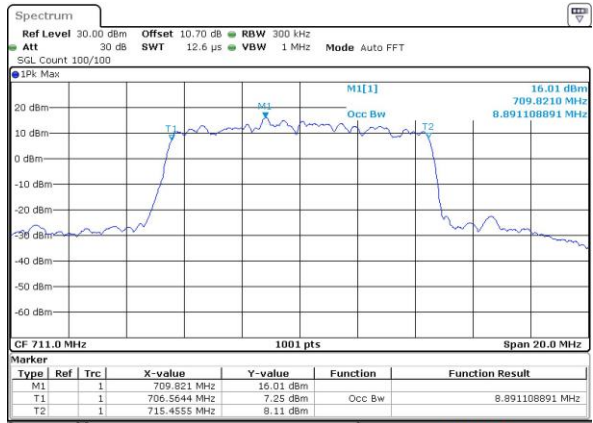
Date: 13 JUN 2018 10:54:51

Highest Channel / 5MHz / 64QAM



Date: 13 JUN 2018 10:47:44

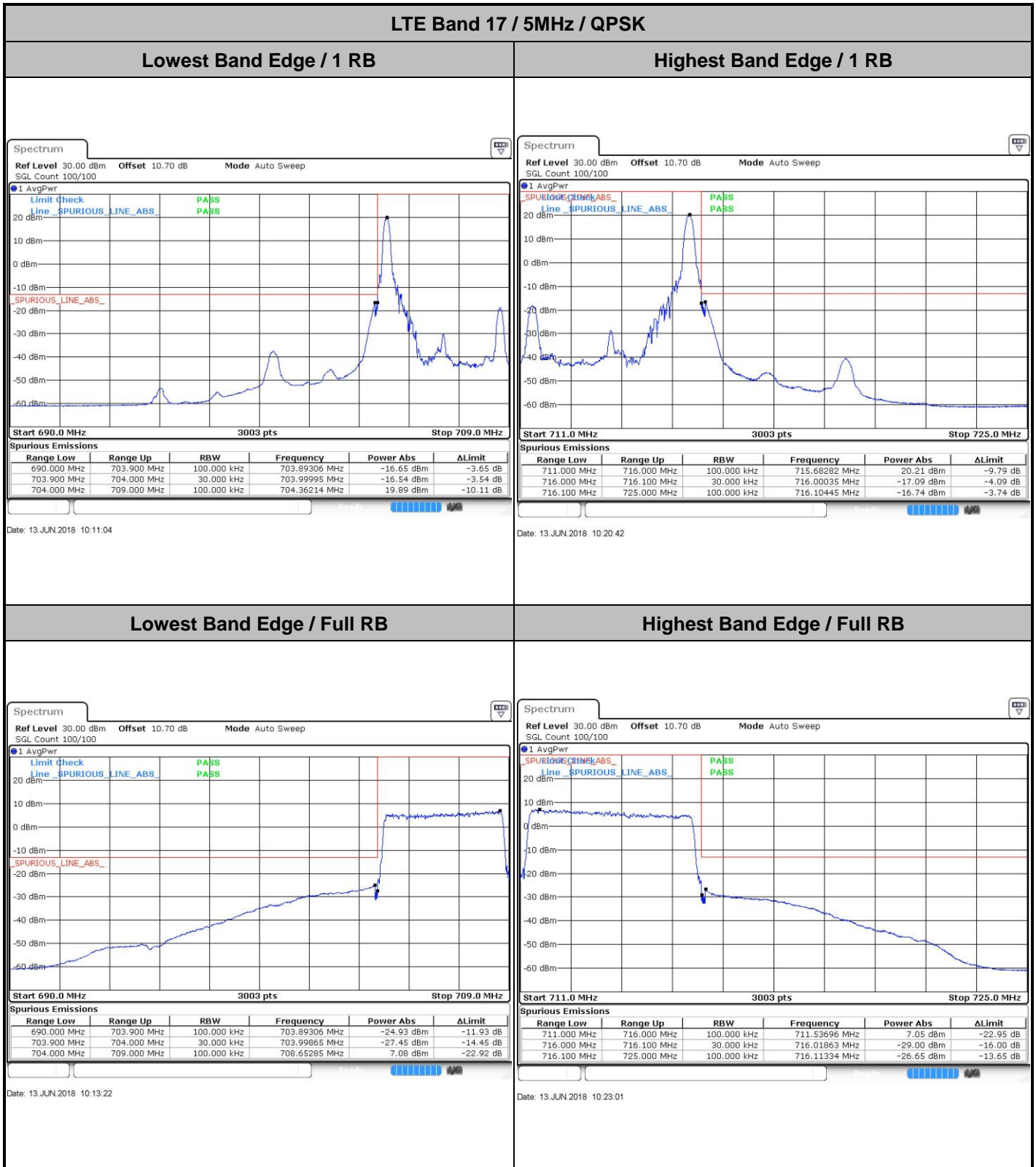
Highest Channel / 10MHz / 64QAM



Date: 13 JUN 2018 10:56:07



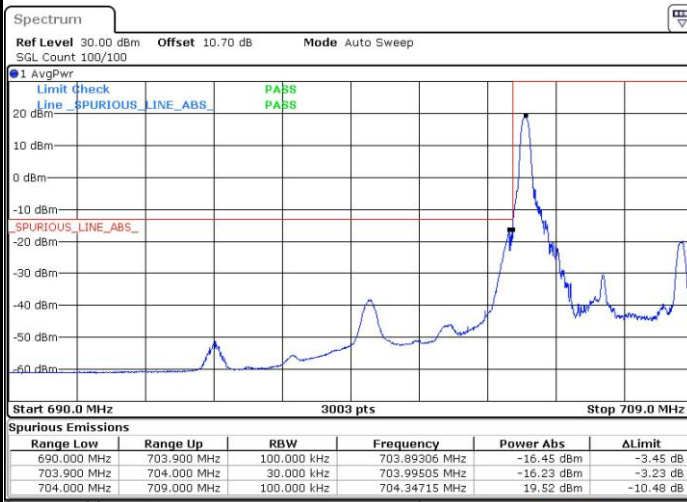
Conducted Band Edge





LTE Band 17 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



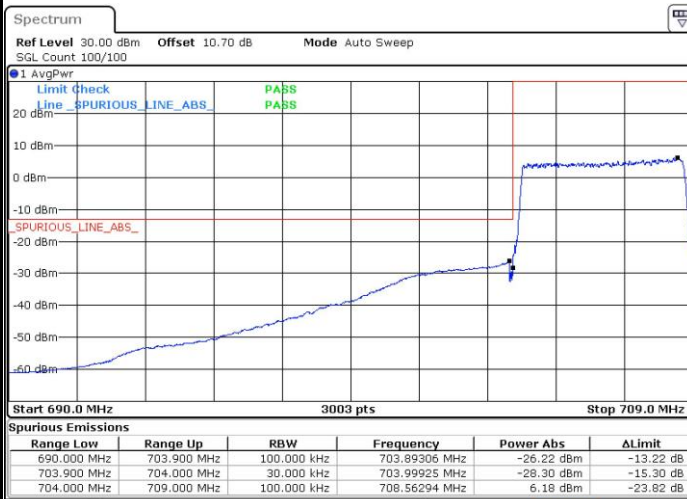
Date: 13 JUN 2018 10:12:13

Highest Band Edge / 1 RB



Date: 13 JUN 2018 10:21:51

Lowest Band Edge / Full RB



Date: 13 JUN 2018 10:14:32

Highest Band Edge / Full RB

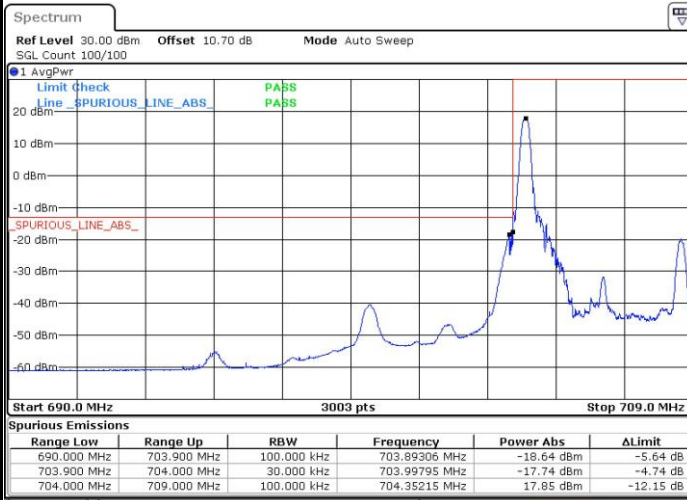


Date: 13 JUN 2018 10:24:10



LTE Band 17 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



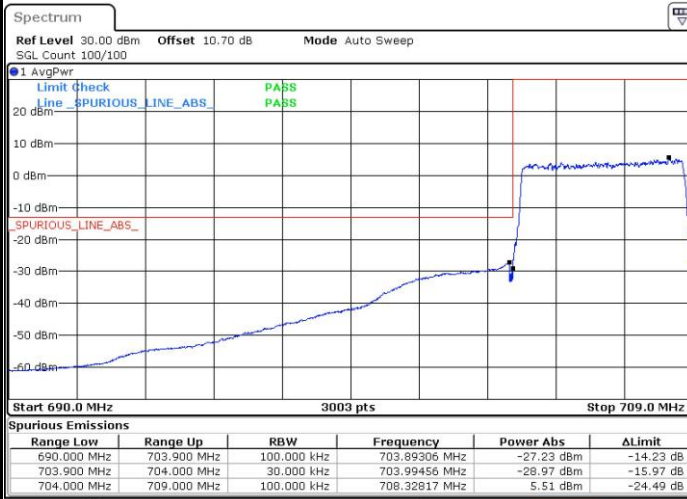
Date: 13 JUN 2018 10:44:14

Highest Band Edge / 1 RB



Date: 13 JUN 2018 10:49:03

Lowest Band Edge / Full RB



Date: 13 JUN 2018 10:45:23

Highest Band Edge / Full RB



Date: 13 JUN 2018 10:50:12