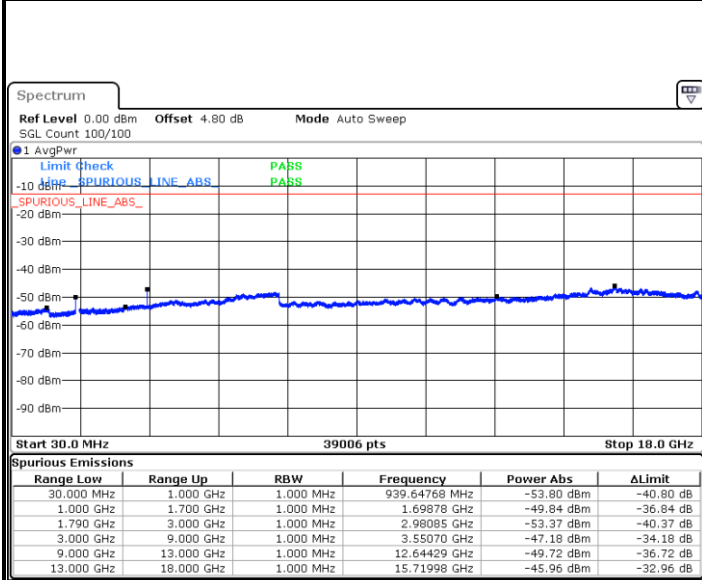




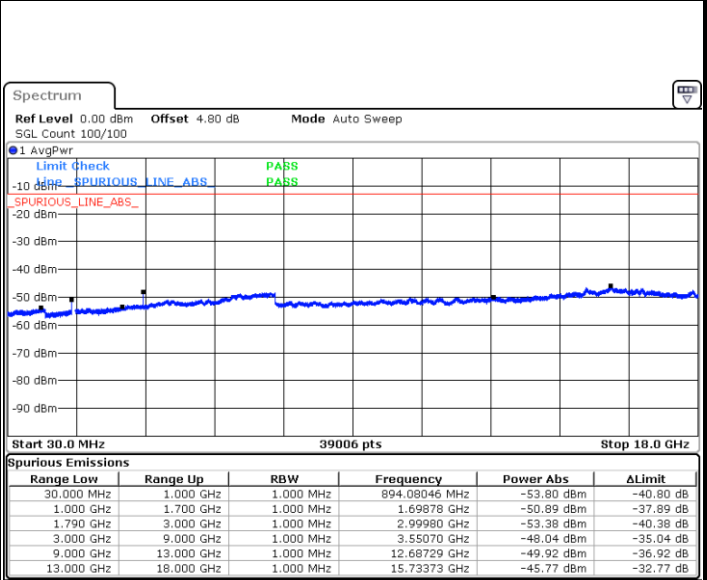
LTE Band 66 / 5MHz

Highest Channel / QPSK



Date: 2.OCT.2018 21:16:45

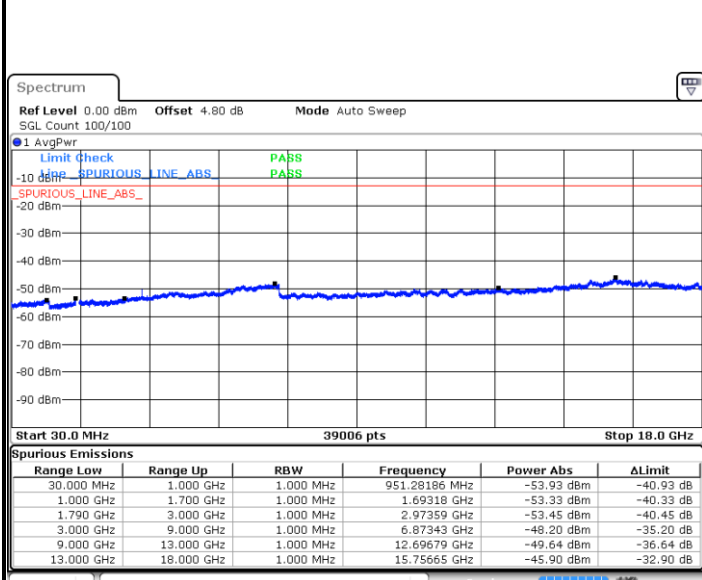
Highest Channel / 16QAM



Date: 2.OCT.2018 21:17:27

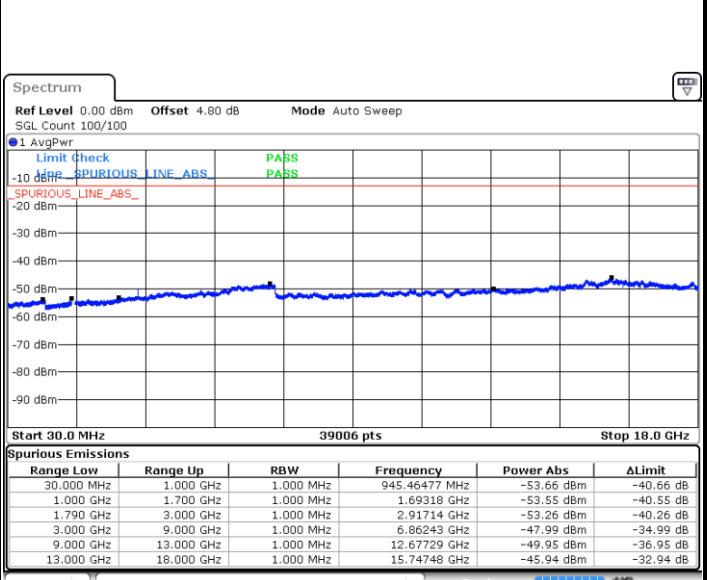
LTE Band 66 / 10MHz

Lowest Channel / QPSK



Date: 2.OCT.2018 21:23:28

Lowest Channel / 16QAM



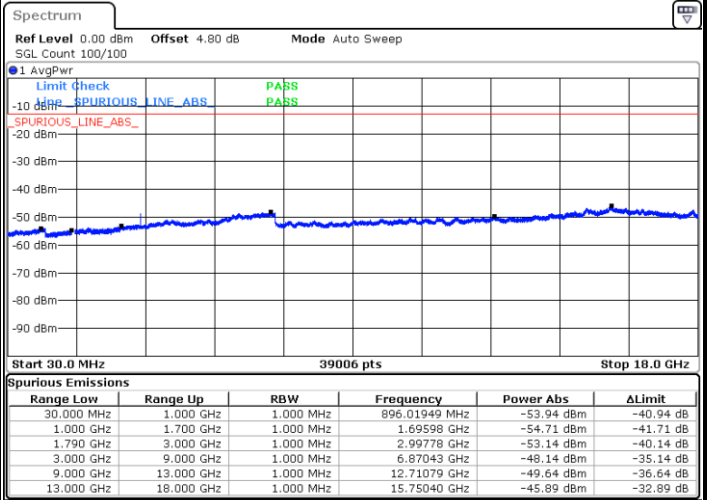
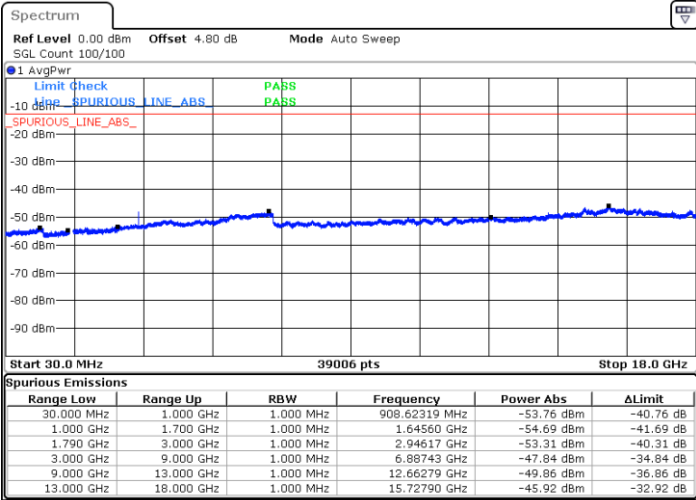
Date: 2.OCT.2018 21:24:15



LTE Band 66 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

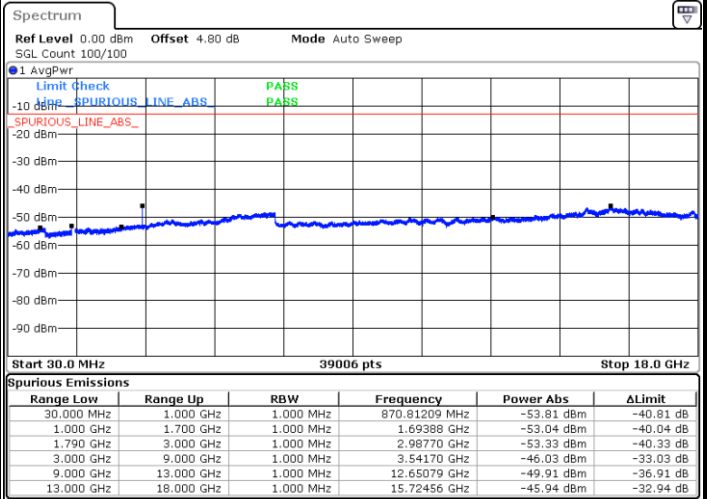
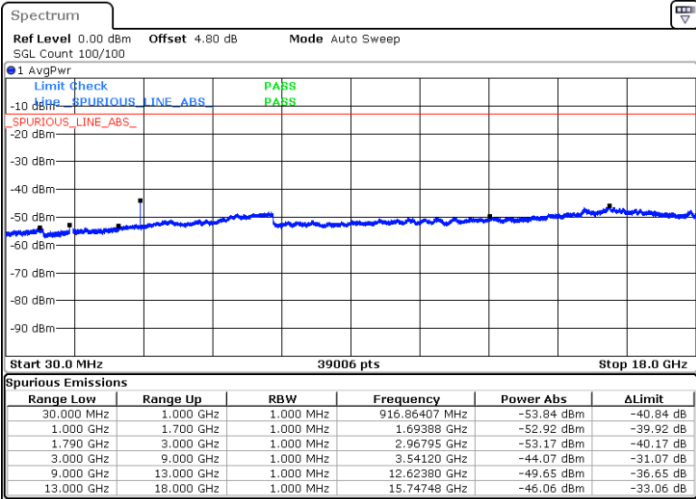


Date: 2.OCT.2018 21:26:13

Date: 2.OCT.2018 21:26:51

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 2.OCT.2018 21:32:11

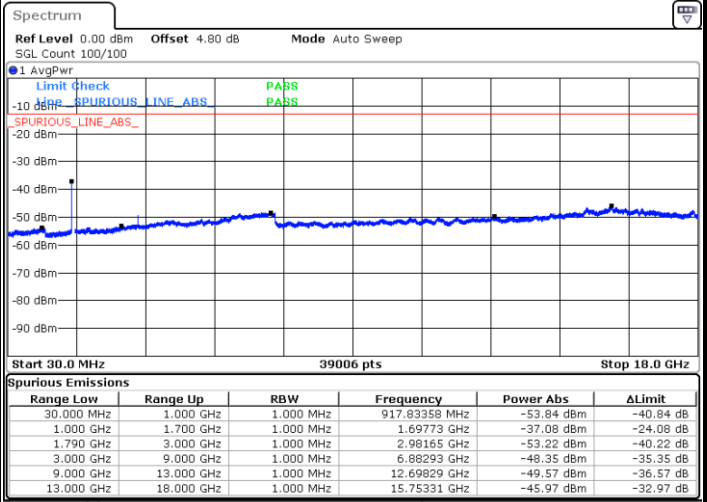
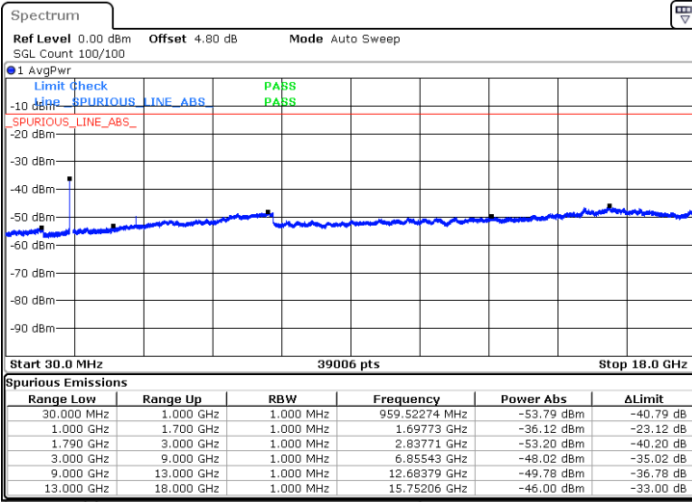
Date: 2.OCT.2018 21:32:48



LTE Band 66 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

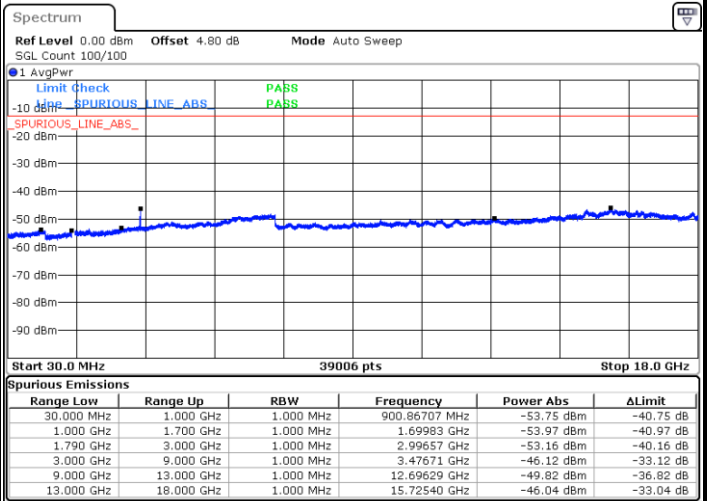
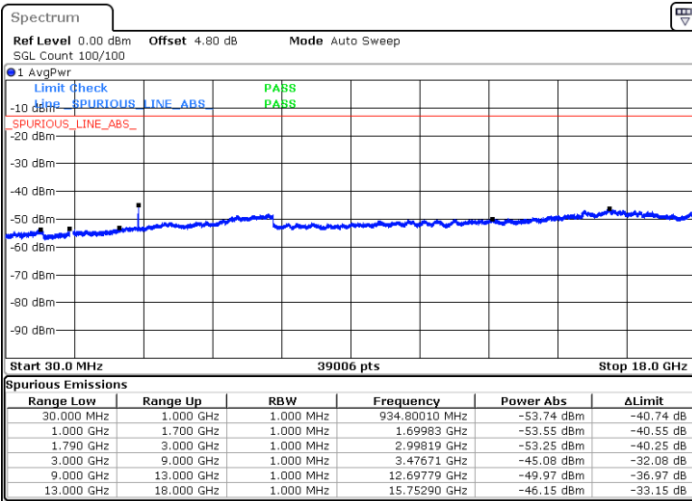


Date: 2.OCT.2018 21:36:59

Date: 2.OCT.2018 21:37:44

Middle Channel / QPSK

Middle Channel / 16QAM



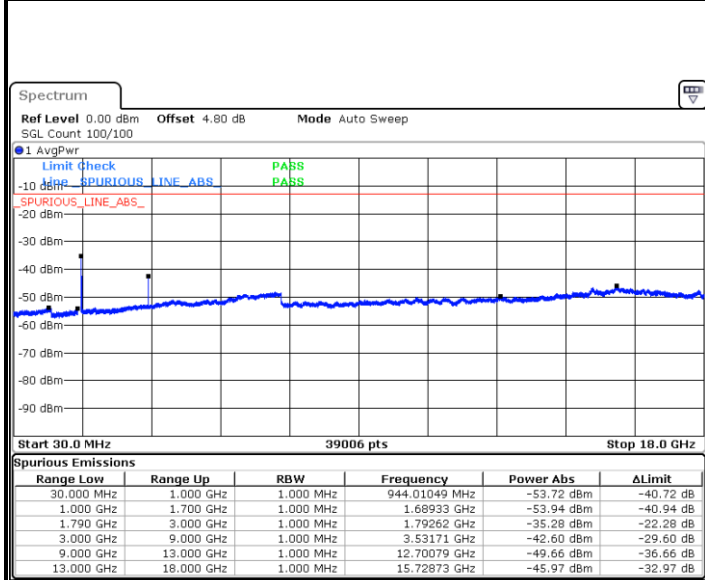
Date: 2.OCT.2018 21:39:22

Date: 2.OCT.2018 21:39:59



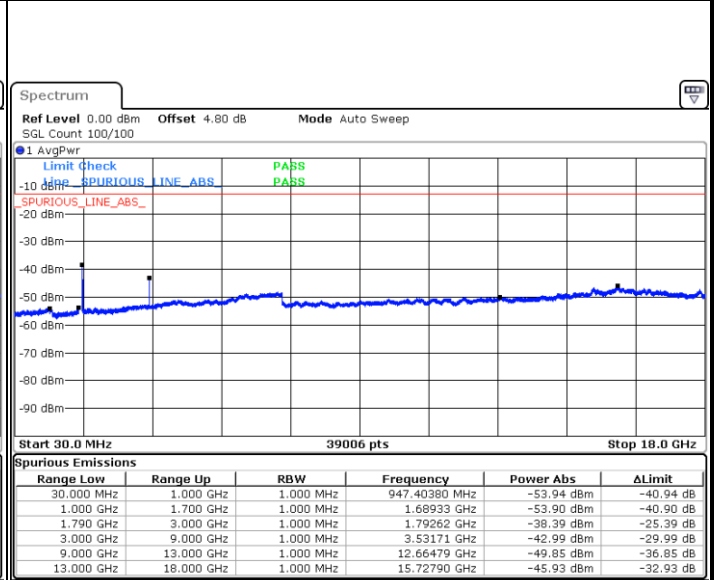
**LTE Band 66 / 15MHz**

**Highest Channel / QPSK**



Date: 2.OCT.2018 21:45:01

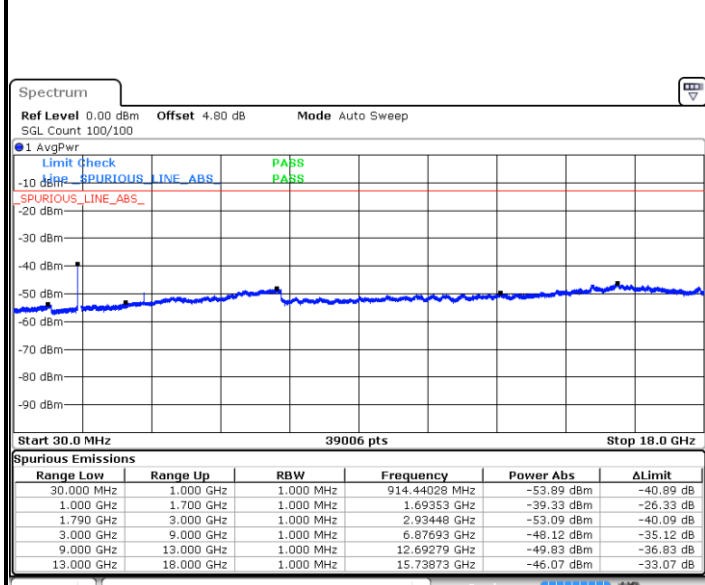
**Highest Channel / 16QAM**



Date: 2.OCT.2018 21:45:35

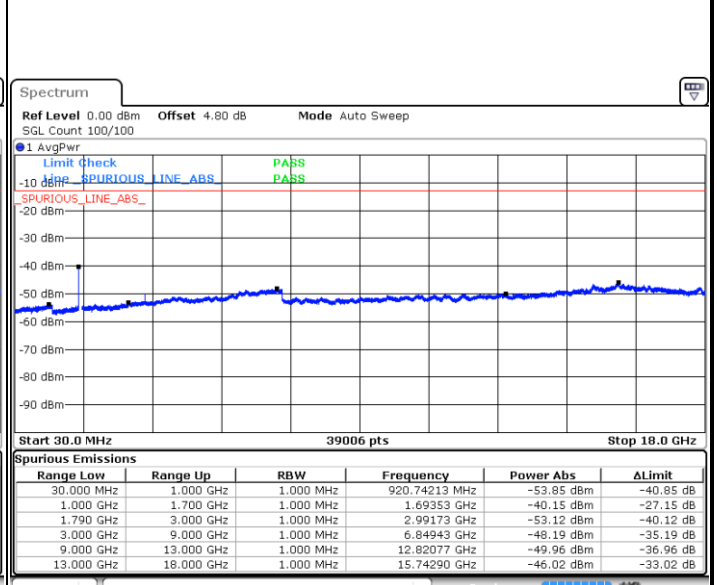
**LTE Band 66 / 20MHz**

**Lowest Channel / QPSK**



Date: 2.OCT.2018 21:51:00

**Lowest Channel / 16QAM**



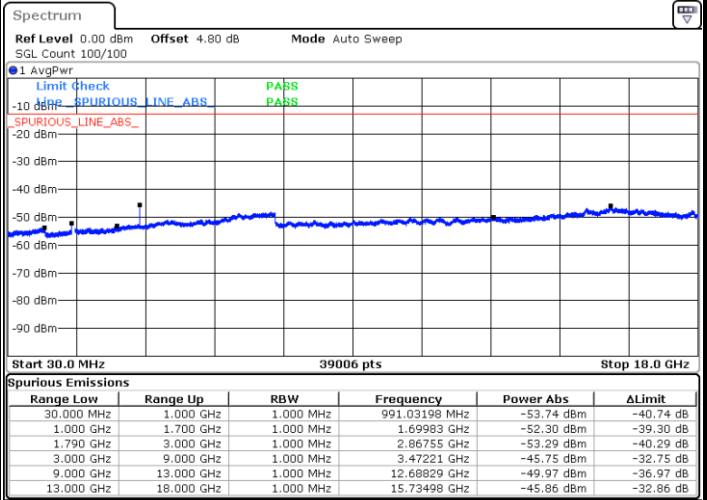
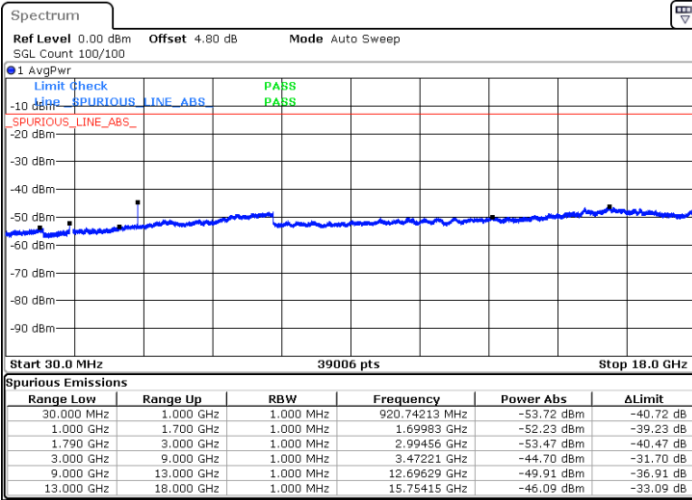
Date: 2.OCT.2018 21:52:28



LTE Band 66 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

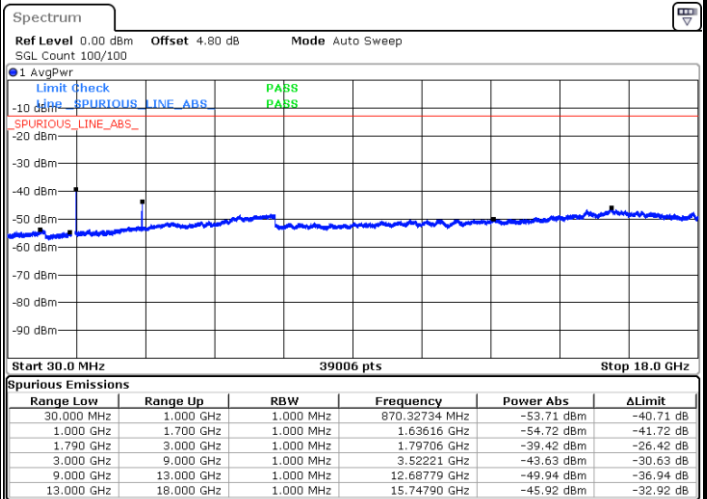
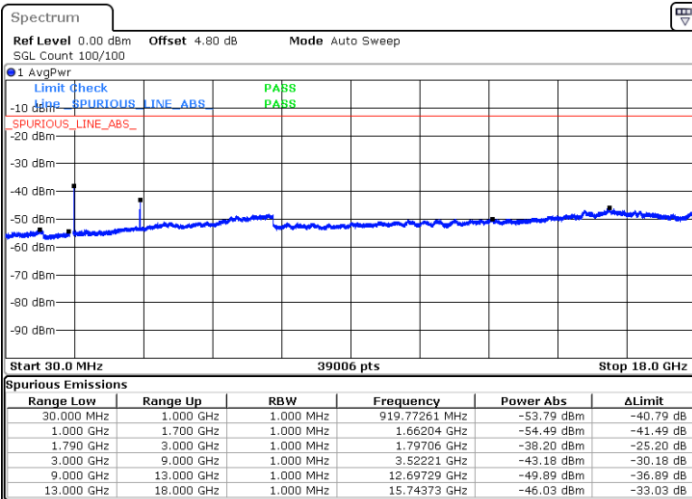


Date: 2.OCT.2018 21:54:43

Date: 2.OCT.2018 21:55:33

Highest Channel / QPSK

Highest Channel / 16QAM

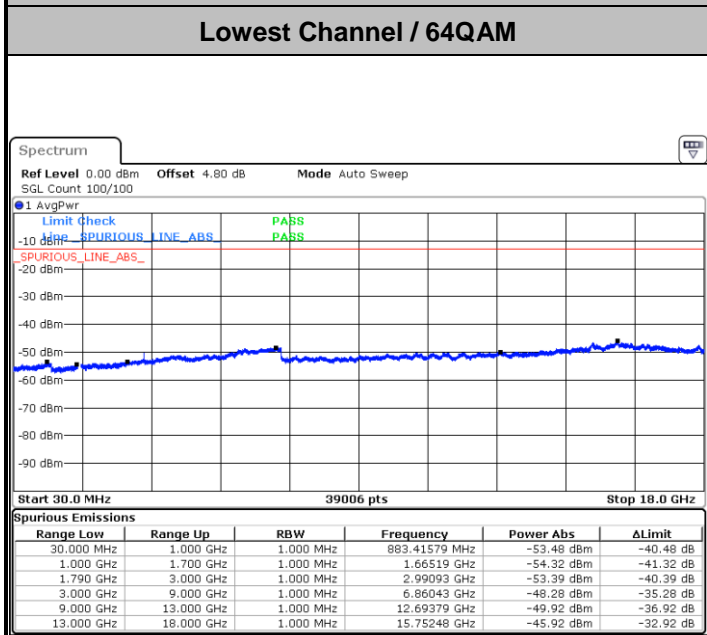


Date: 2.OCT.2018 22:02:38

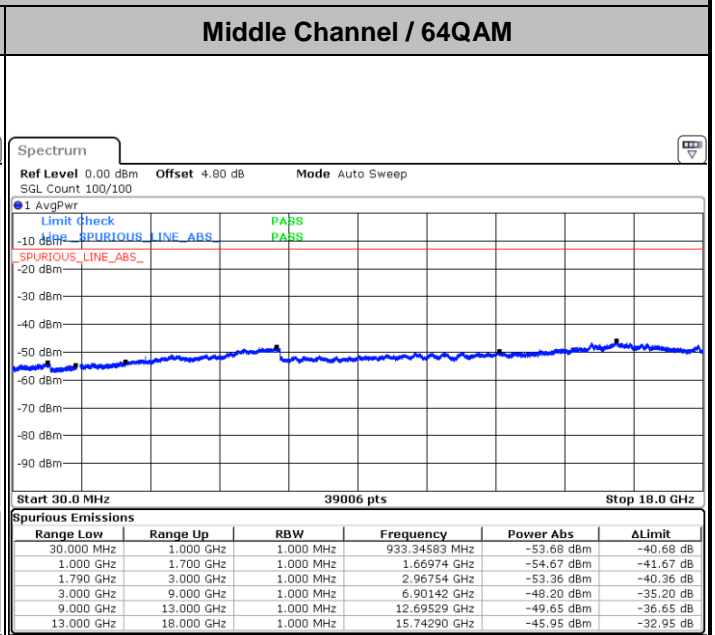
Date: 2.OCT.2018 22:03:36



**LTE Band 66 / 1.4MHz**

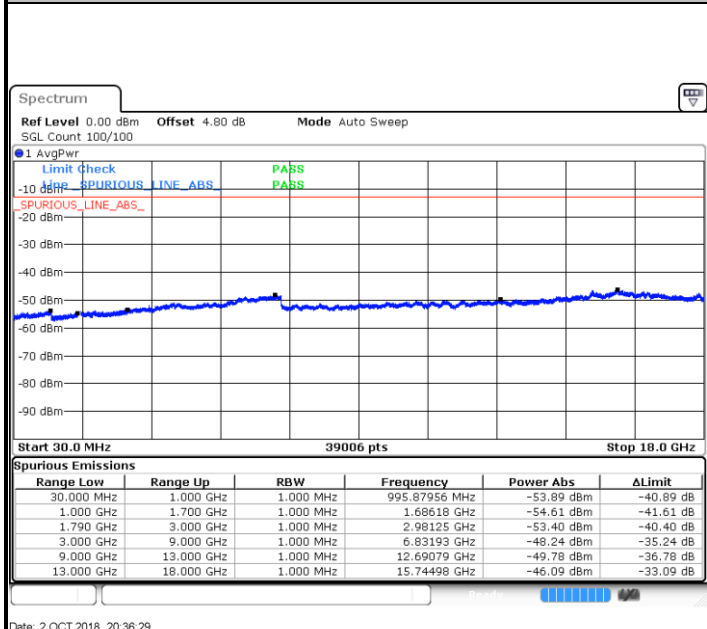


Date: 2.OCT.2018 20:22:27



Date: 2.OCT.2018 20:27:44

**Highest Channel / 64QAM**



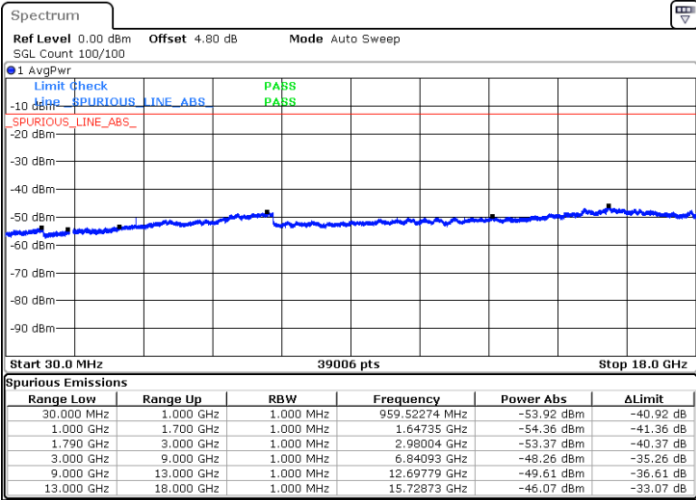
Date: 2.OCT.2018 20:36:29



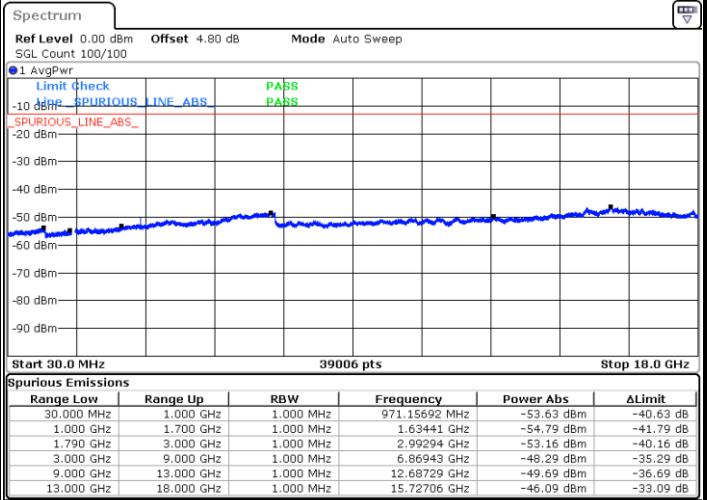
LTE Band 66 / 3MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

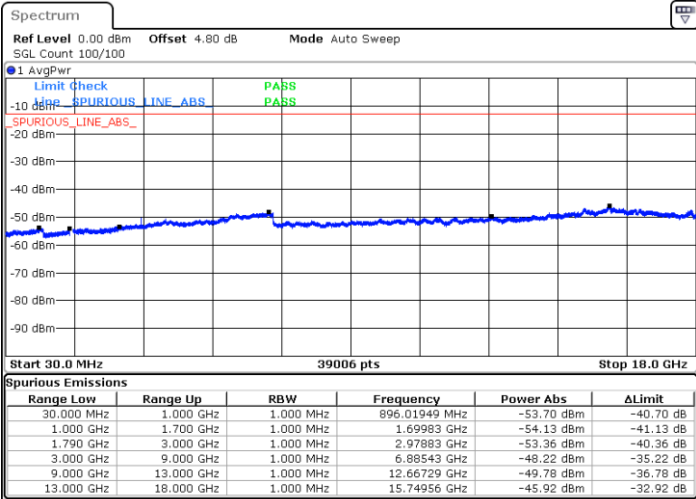


Date: 2.OCT.2018 20:53:29



Date: 2.OCT.2018 20:55:35

Highest Channel / 64QAM

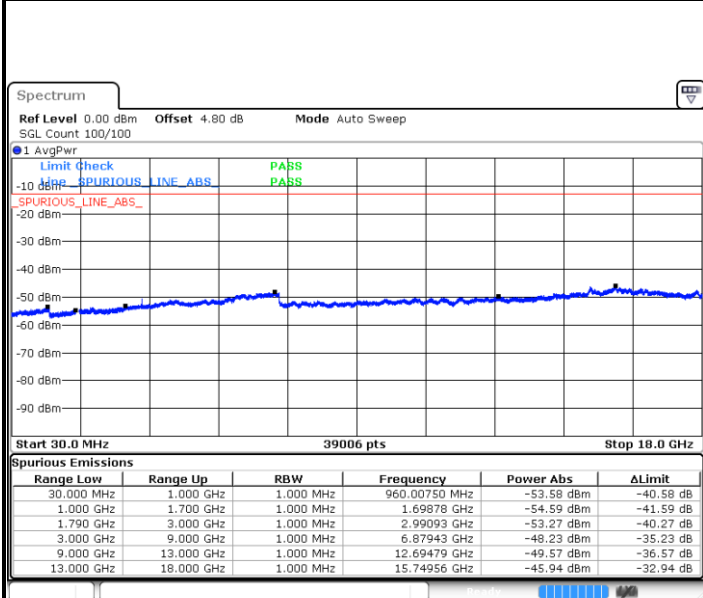


Date: 2.OCT.2018 21:02:31



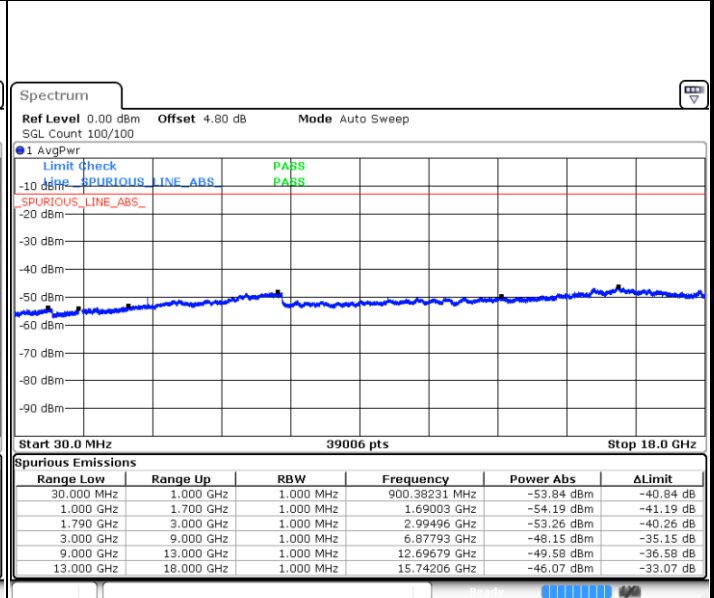
**LTE Band 66 / 5MHz**

**Lowest Channel / 64QAM**



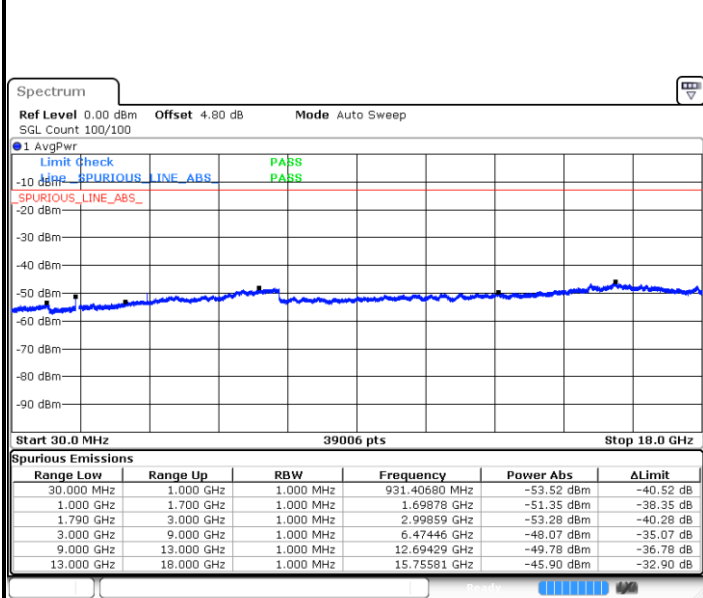
Date: 2.OCT.2018 21:09:48

**Middle Channel / 64QAM**



Date: 2.OCT.2018 21:12:10

**Highest Channel / 64QAM**



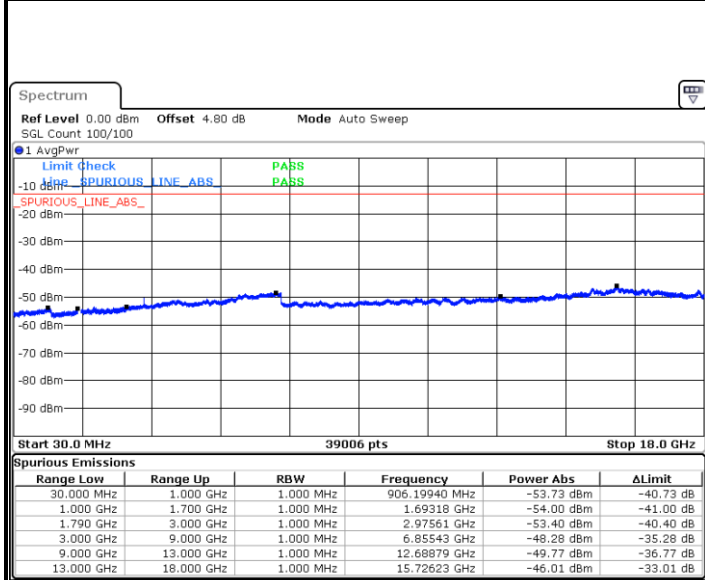
Date: 2.OCT.2018 21:18:02





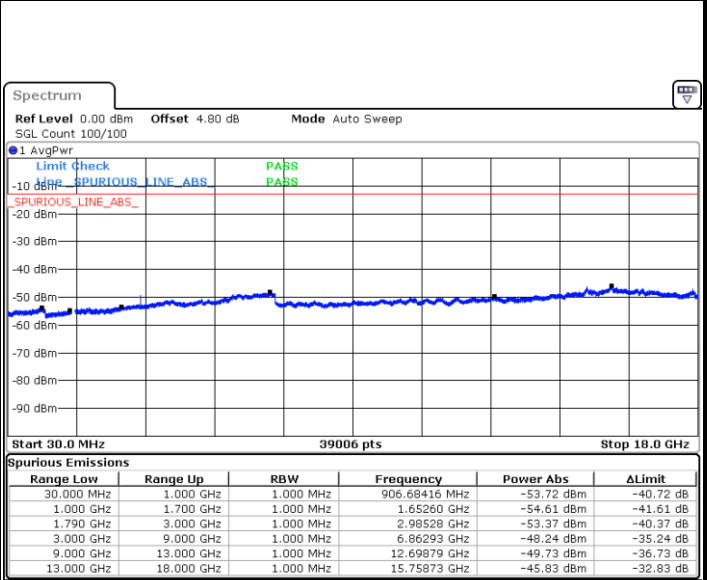
**LTE Band 66 / 10MHz**

**Lowest Channel / 64QAM**



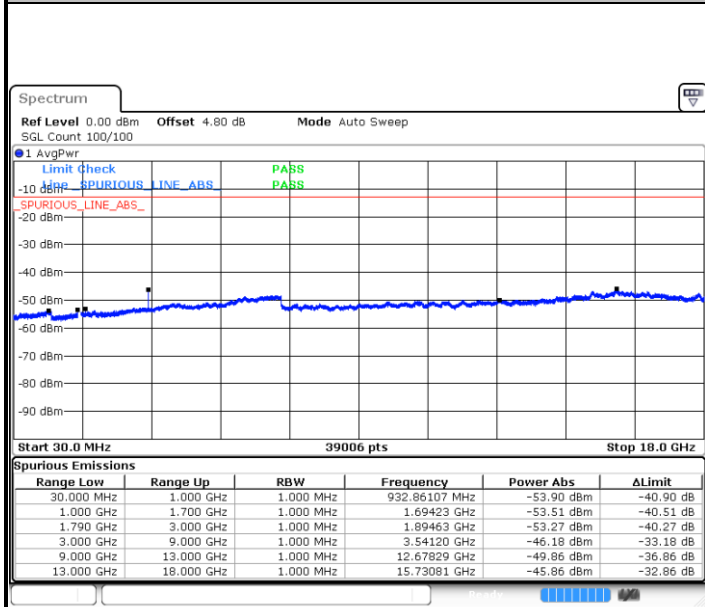
Date: 2.OCT.2018 21:25:03

**Middle Channel / 64QAM**



Date: 2.OCT.2018 21:27:29

**Highest Channel / 64QAM**

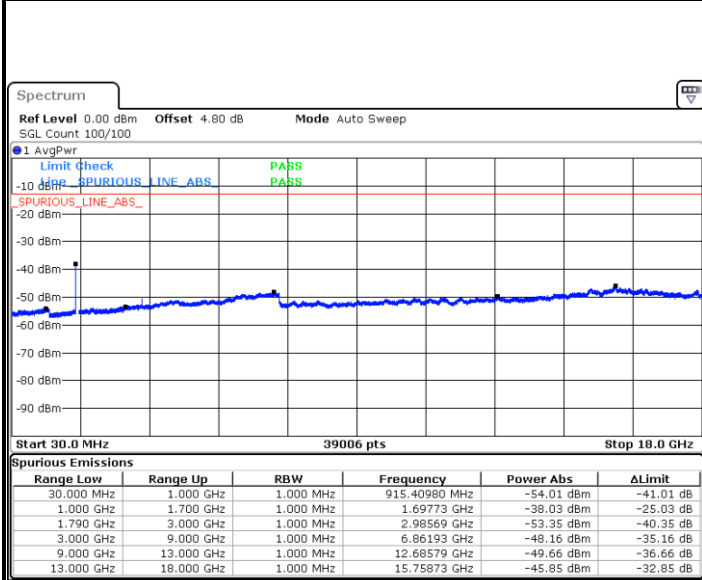


Date: 2.OCT.2018 21:33:23



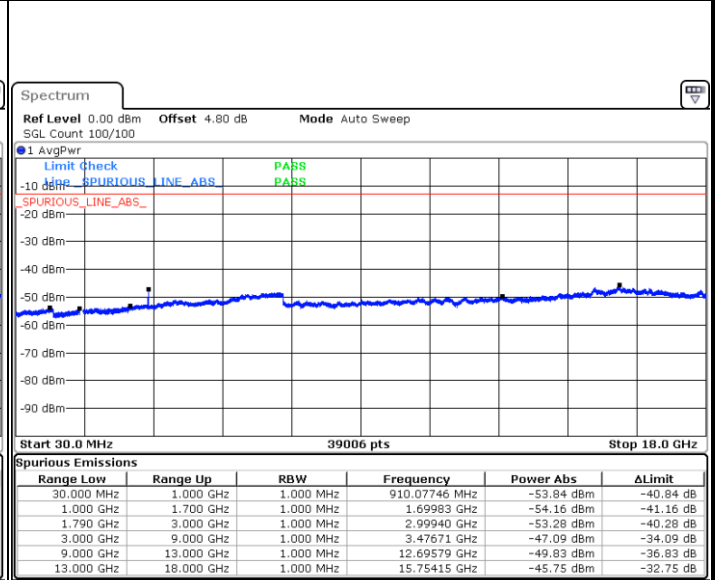
**LTE Band 66 / 15MHz**

**Lowest Channel / 64QAM**



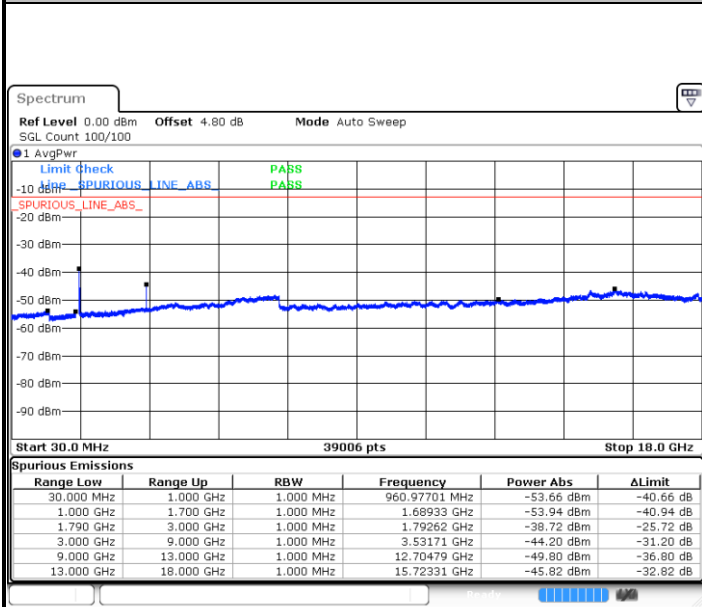
Date: 2.OCT.2018 21:38:38

**Middle Channel / 64QAM**



Date: 2.OCT.2018 21:40:37

**Highest Channel / 64QAM**



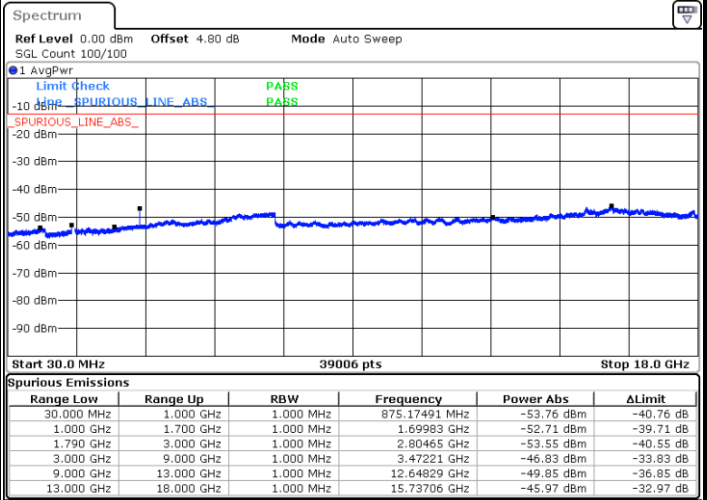
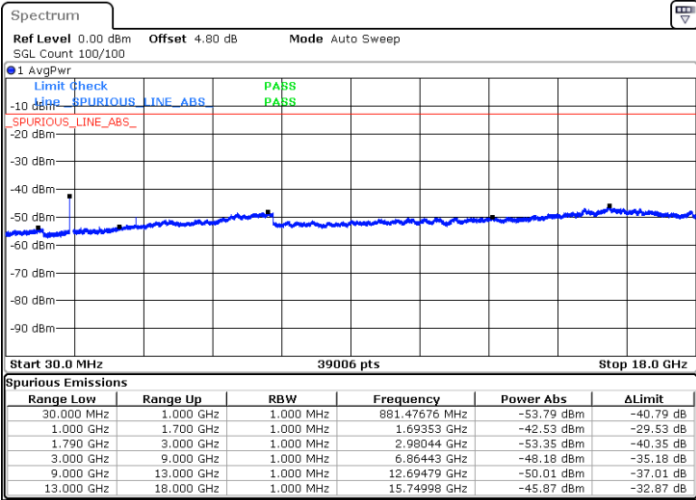
Date: 2.OCT.2018 21:46:10



LTE Band 66 / 20MHz

Lowest Channel / 64QAM

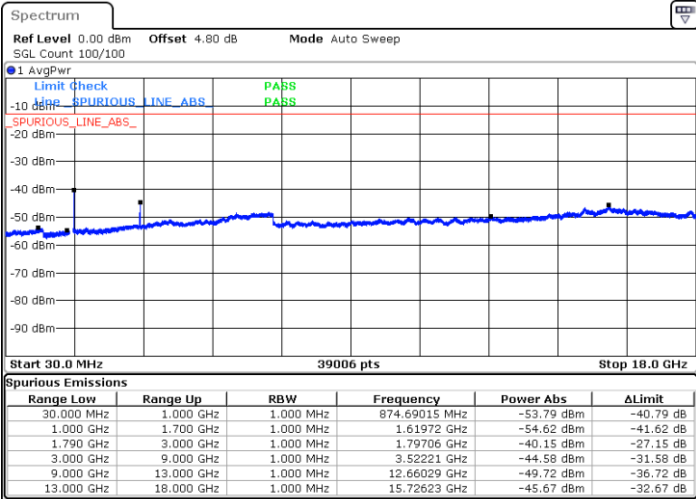
Middle Channel / 64QAM



Date: 2.OCT.2018 21:53:14

Date: 2.OCT.2018 21:56:22

Highest Channel / 64QAM



Date: 2.OCT.2018 22:04:43



Frequency Stability

Test Conditions		LTE Band 66 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0011	PASS
40	Normal Voltage	0.0026	
30	Normal Voltage	0.0002	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0034	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0021	
-30	Normal Voltage	0.0004	
20	Maximum Voltage	0.0029	
20	Normal Voltage	0.0005	
20	Battery End Point	0.0007	

Note:

1. Normal Voltage =4.0 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 71

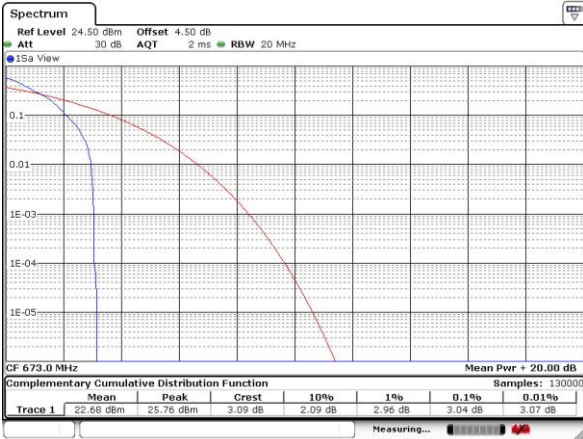
## Peak-to-Average Ratio

Mode	LTE Band 71 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.04	4.32	4.35	5.39	<b>PASS</b>
Middle CH	3.94	4.61	4.75	5.42	
Highest CH	3.1	4.38	4.14	5.42	
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	5.28	5.88	<b>PASS</b>		
Middle CH	5.91	5.97			
Highest CH	5.01	5.97			



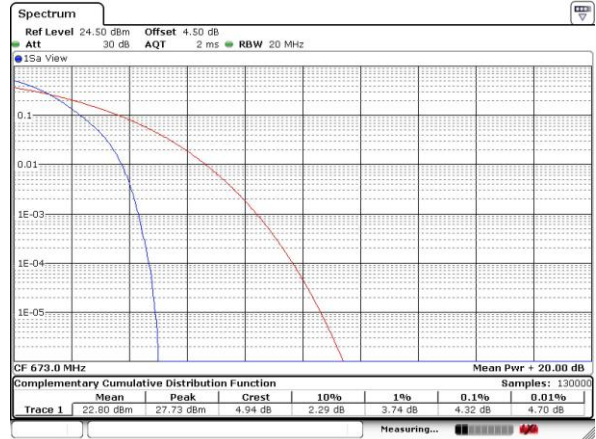
LTE Band 71 / 20MHz / QPSK

Lowest Channel / 1RB



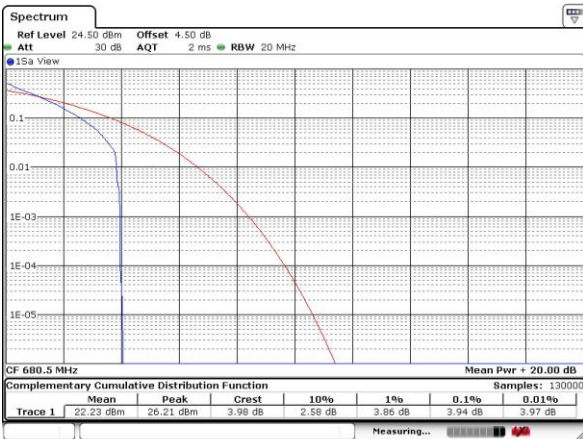
Date: 7.OCT.2018 00:33:53

Lowest Channel / Full RB



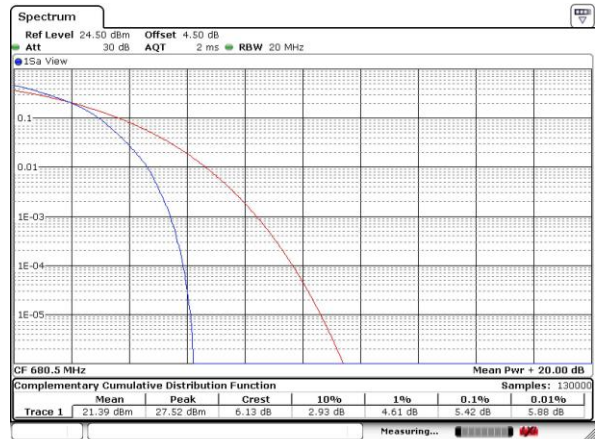
Date: 7.OCT.2018 00:36:20

Middle Channel / 1RB



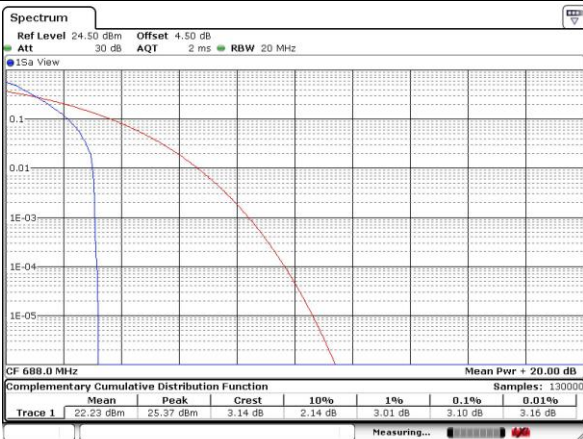
Date: 7.OCT.2018 00:38:26

Middle Channel / Full RB



Date: 7.OCT.2018 00:37:14

Highest Channel / 1RB



Date: 7.OCT.2018 00:39:12

Highest Channel / Full RB

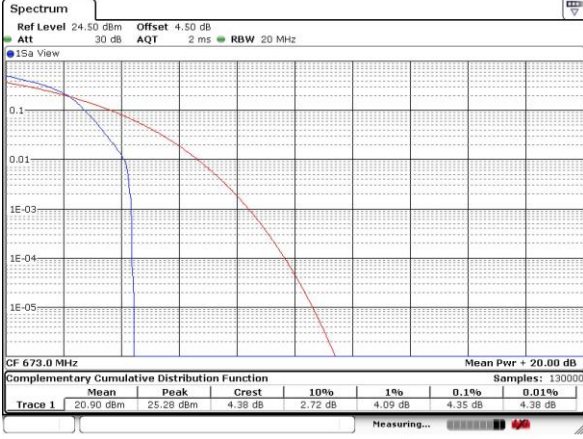


Date: 7.OCT.2018 00:40:57



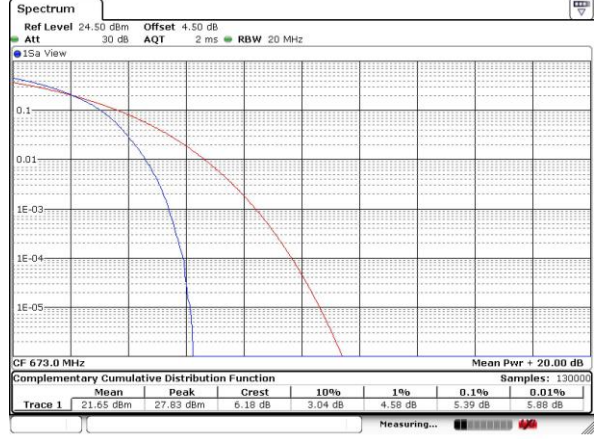
LTE Band 71 / 20MHz / 16QAM

Lowest Channel / 1RB



Date: 7.OCT.2018 00:35:00

Lowest Channel / Full RB



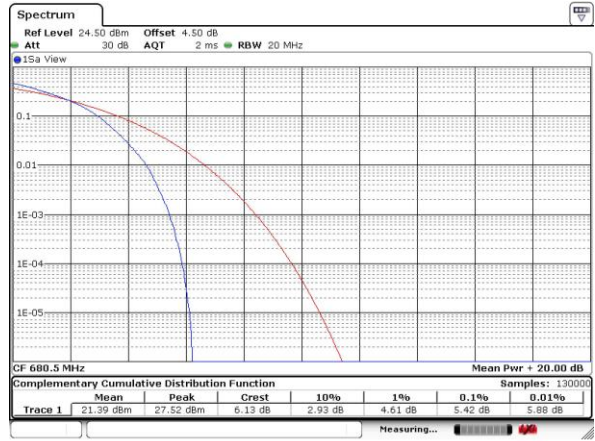
Date: 7.OCT.2018 00:35:59

Middle Channel / 1RB



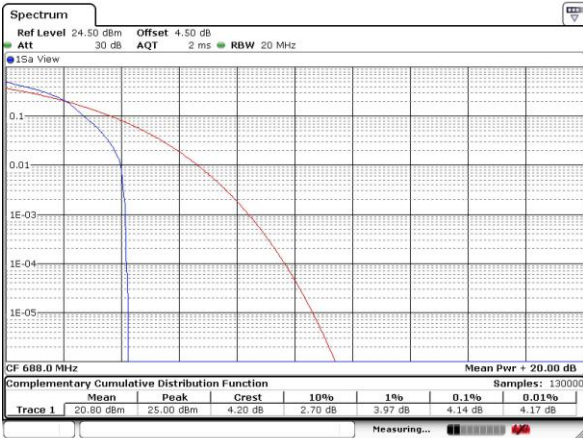
Date: 7.OCT.2018 00:38:12

Middle Channel / Full RB



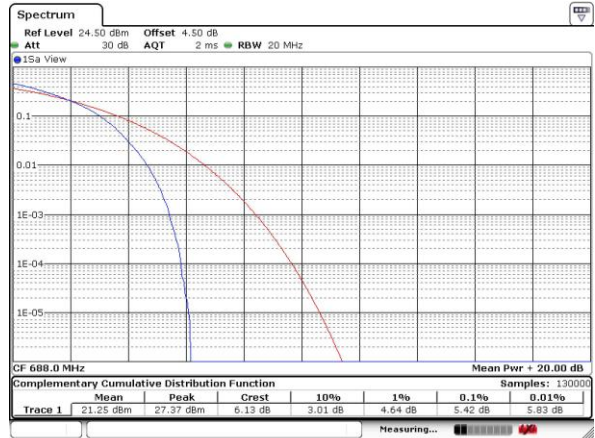
Date: 7.OCT.2018 00:37:14

Highest Channel / 1RB



Date: 7.OCT.2018 00:39:32

Highest Channel / Full RB



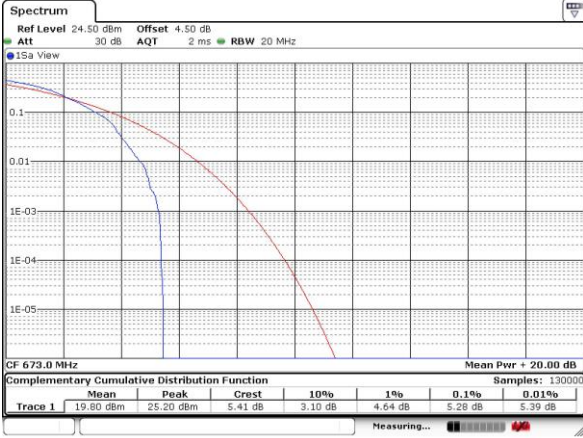
Date: 7.OCT.2018 00:40:29





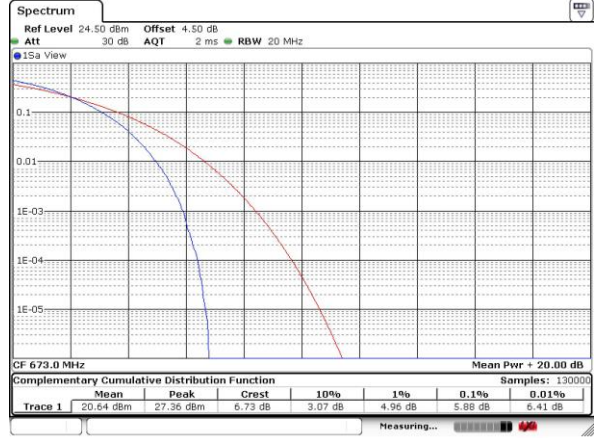
LTE Band 71 / 20MHz / 64QAM

Lowest Channel / 1RB



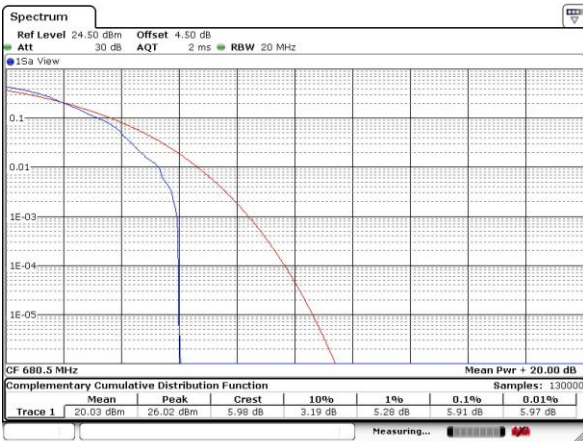
Date: 7.OCT.2018 00:35:15

Lowest Channel / Full RB



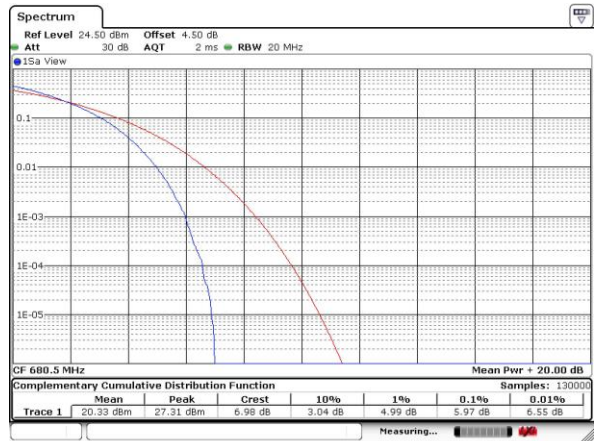
Date: 7.OCT.2018 00:35:30

Middle Channel / 1RB



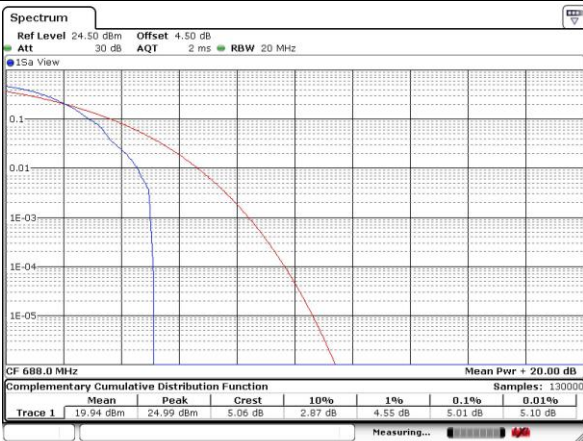
Date: 7.OCT.2018 00:37:50

Middle Channel / Full RB



Date: 7.OCT.2018 00:37:31

Highest Channel / 1RB



Date: 7.OCT.2018 00:39:51

Highest Channel / Full RB



Date: 7.OCT.2018 00:40:08





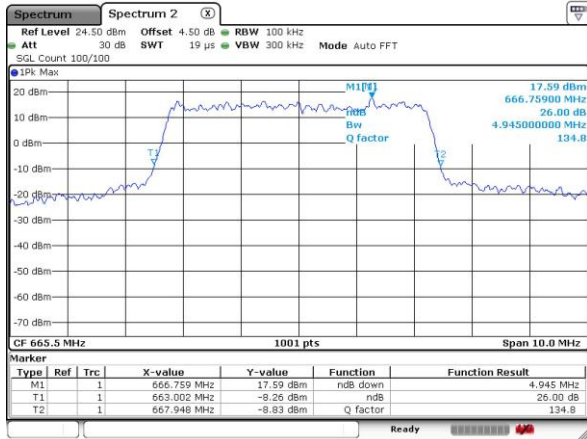
26dB Bandwidth

Mode	LTE Band 71 : 26dB BW(MHz)											
BW	5MHz		10MHz		15MHz		20MHz		5MHz	10MHz	15MHz	20MHz
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM	64QAM	64QAM
Lowest CH	4.945	4.965	9.81	9.67	14.206	14.476	20.18	20.14	4.865	9.83	14.326	19.98
Middle CH	4.945	4.845	9.75	9.75	14.386	14.446	20.1	20.1	4.835	9.89	14.416	20.22
Highest CH	5.025	4.935	9.95	9.69	14.146	14.476	20.3	20.1	5.035	9.71	14.356	20.22



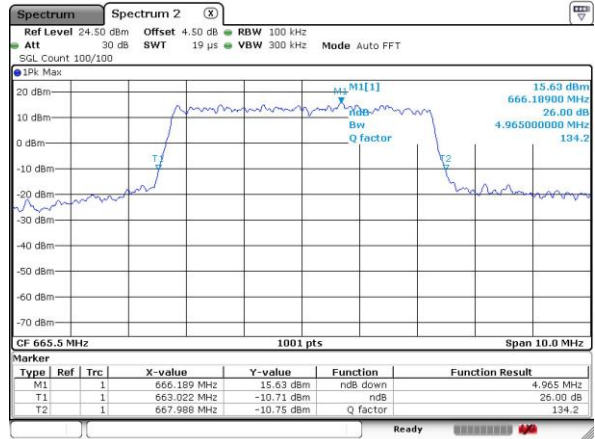
LTE Band 71

Lowest Channel / 5MHz / QPSK



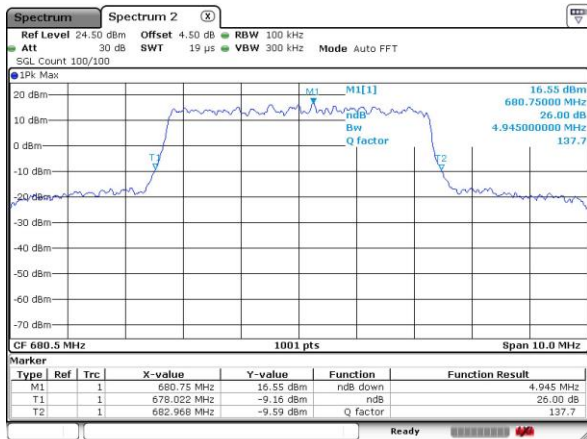
Date: 6 OCT 2018 21:56:03

Lowest Channel / 5MHz / 16QAM



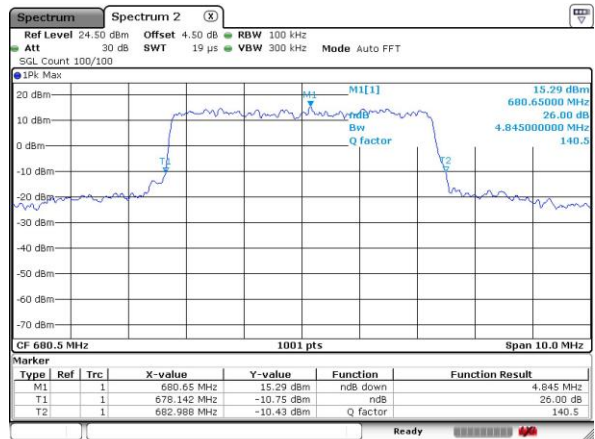
Date: 6 OCT 2018 21:57:51

Middle Channel / 5MHz / QPSK



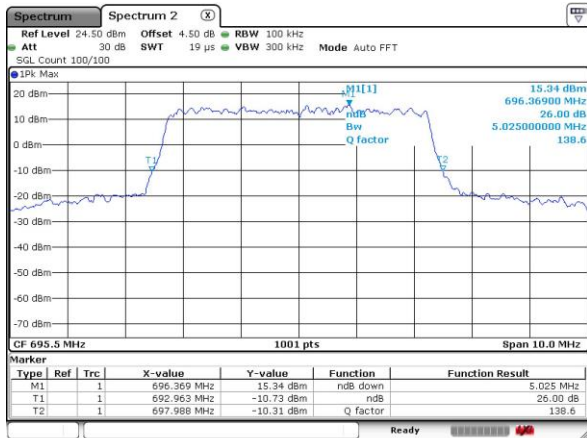
Date: 6 OCT 2018 22:02:10

Middle Channel / 5MHz / 16QAM



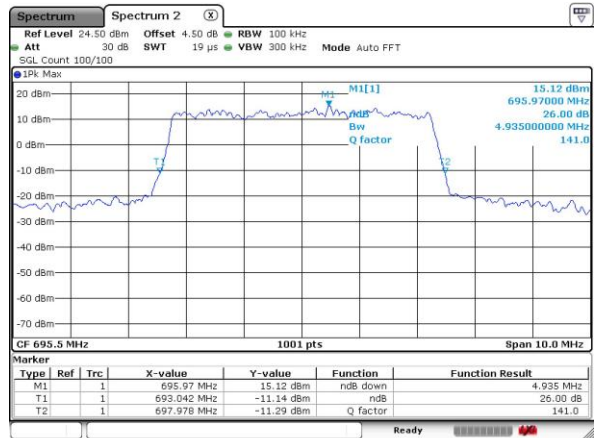
Date: 6 OCT 2018 22:01:09

Highest Channel / 5MHz / QPSK



Date: 6 OCT 2018 22:03:10

Highest Channel / 5MHz / 16QAM

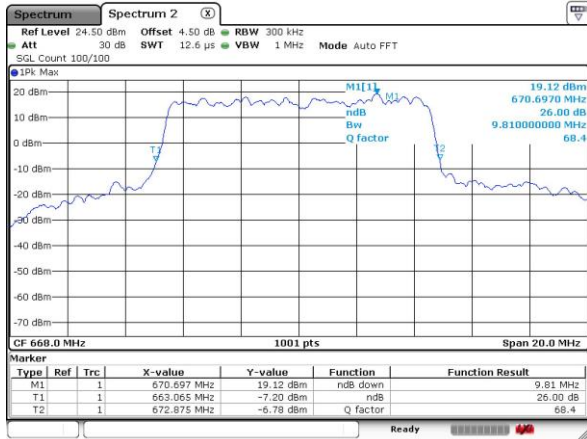


Date: 6 OCT 2018 22:04:50



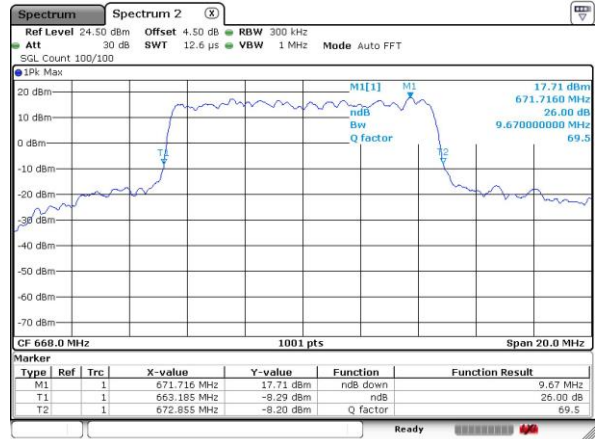
LTE Band 71

Lowest Channel / 10MHz / QPSK



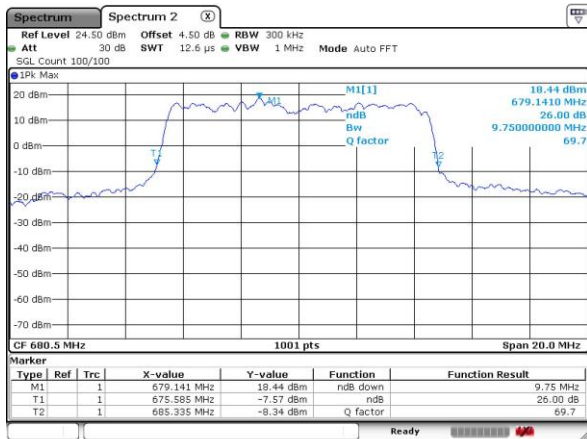
Date: 6 OCT 2018 22:09:40

Lowest Channel / 10MHz / 16QAM



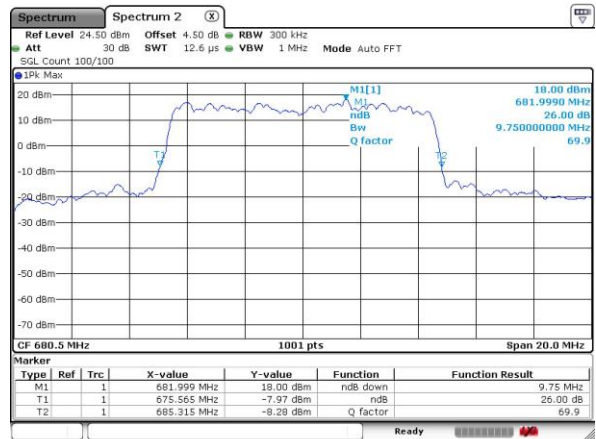
Date: 6 OCT 2018 22:10:54

Middle Channel / 10MHz / QPSK



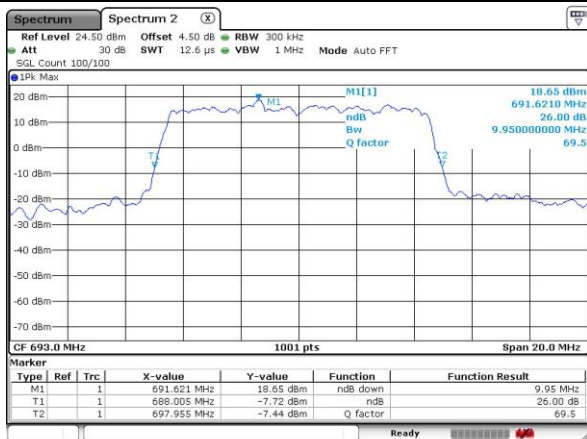
Date: 6 OCT 2018 22:13:41

Middle Channel / 10MHz / 16QAM



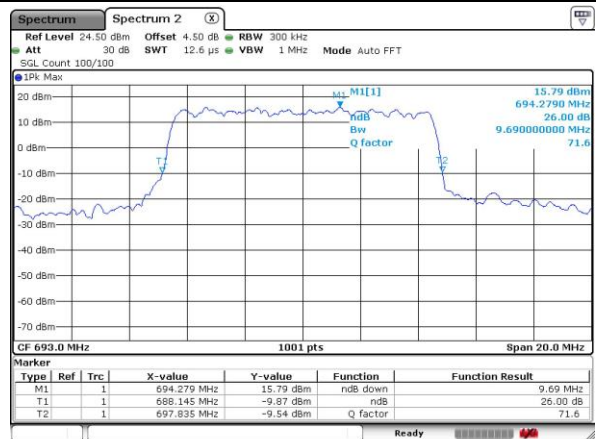
Date: 6 OCT 2018 22:13:20

Highest Channel / 10MHz / QPSK



Date: 6 OCT 2018 22:15:16

Highest Channel / 10MHz / 16QAM

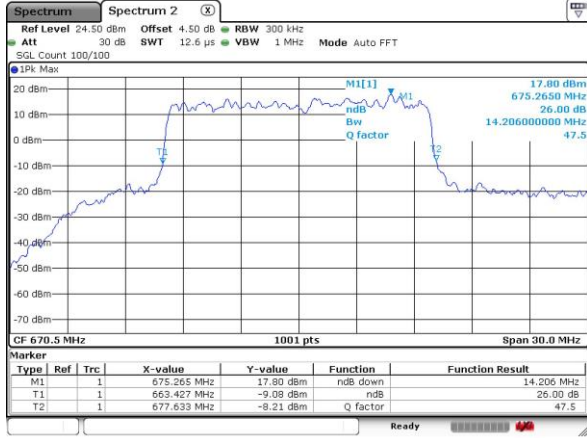


Date: 6 OCT 2018 22:16:06



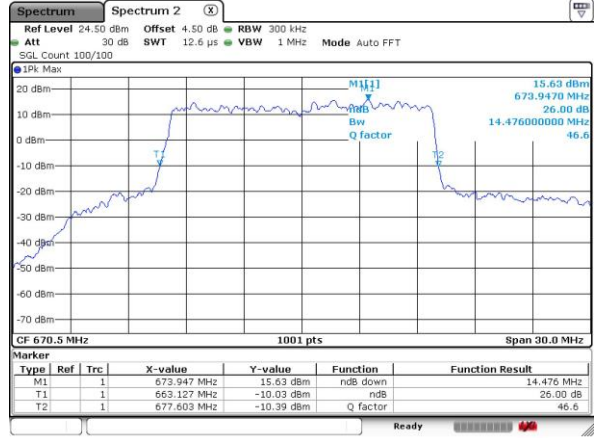
LTE Band 71

Lowest Channel / 15MHz / QPSK



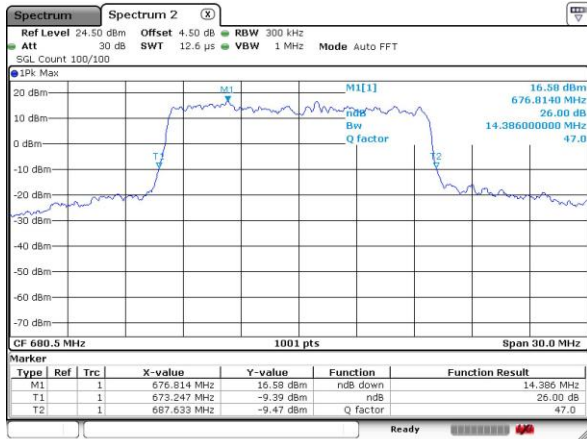
Date: 6 OCT 2018 22:18:43

Lowest Channel / 15MHz / 16QAM



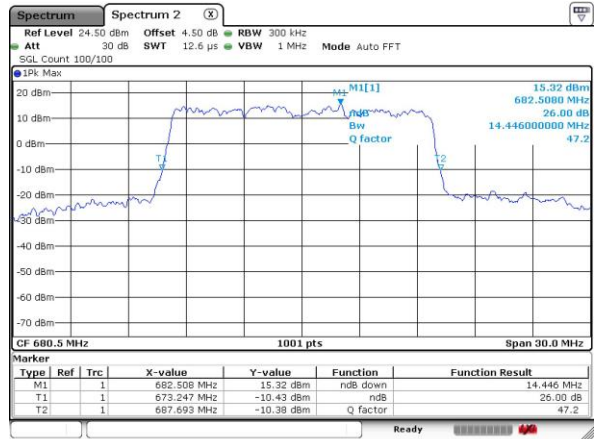
Date: 6 OCT 2018 22:20:16

Middle Channel / 15MHz / QPSK



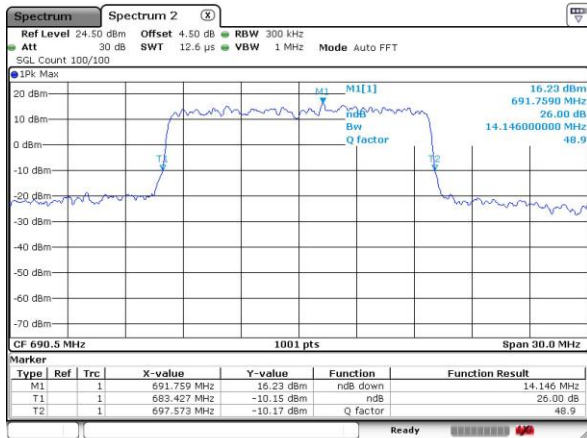
Date: 6 OCT 2018 22:24:07

Middle Channel / 15MHz / 16QAM



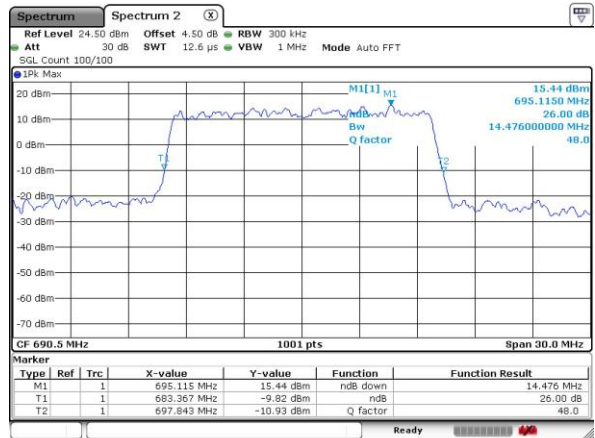
Date: 6 OCT 2018 22:23:05

Highest Channel / 15MHz / QPSK



Date: 6 OCT 2018 22:24:56

Highest Channel / 15MHz / 16QAM

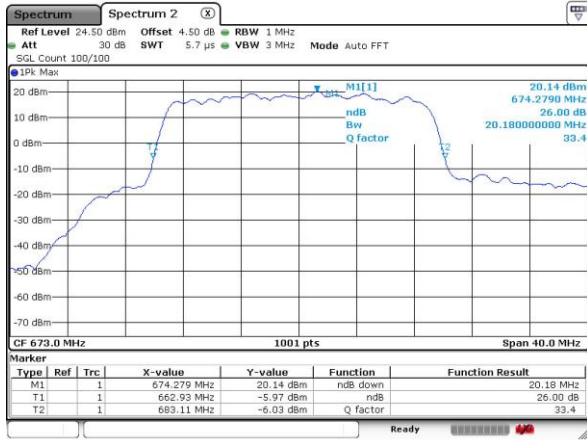


Date: 6 OCT 2018 22:26:45



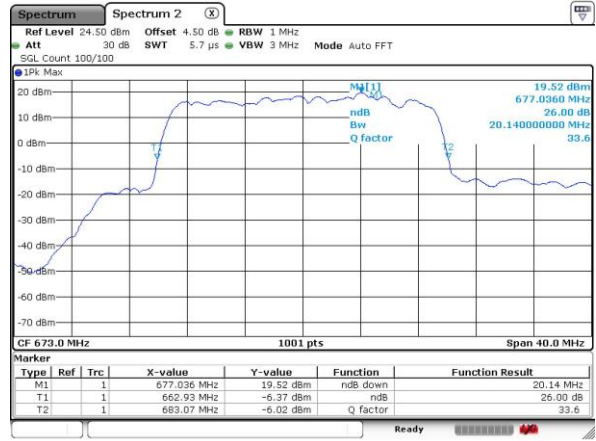
LTE Band 71

Lowest Channel / 20MHz / QPSK



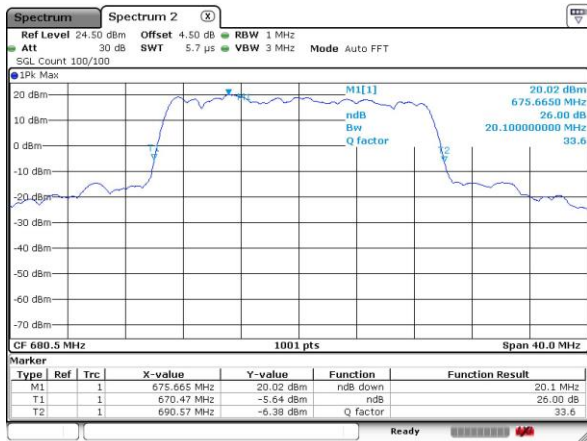
Date: 6.OCT.2018 22:32:42

Lowest Channel / 20MHz / 16QAM



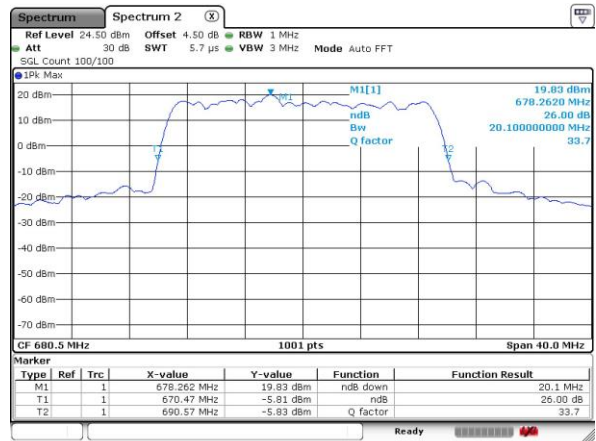
Date: 6.OCT.2018 22:31:45

Middle Channel / 20MHz / QPSK



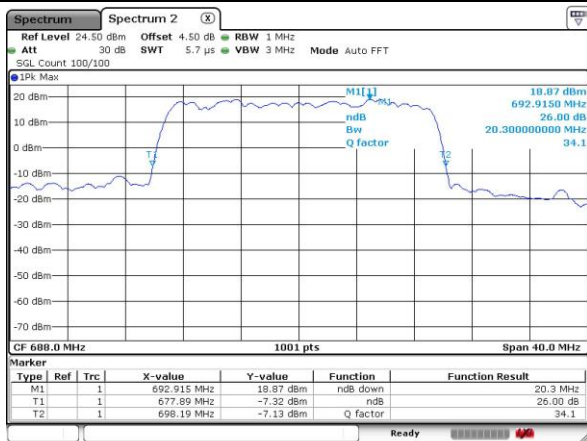
Date: 6.OCT.2018 22:33:15

Middle Channel / 20MHz / 16QAM



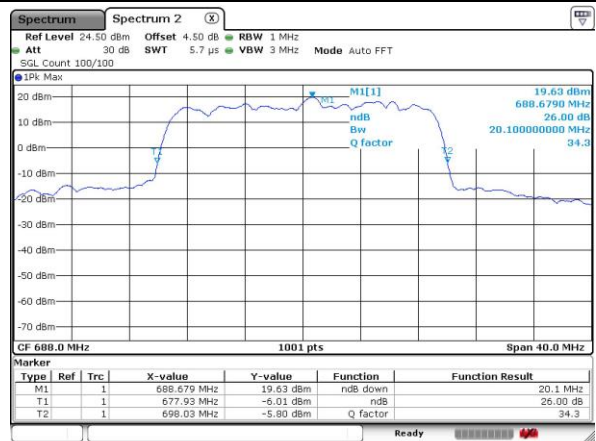
Date: 6.OCT.2018 22:34:32

Highest Channel / 20MHz / QPSK



Date: 6.OCT.2018 22:37:52

Highest Channel / 20MHz / 16QAM

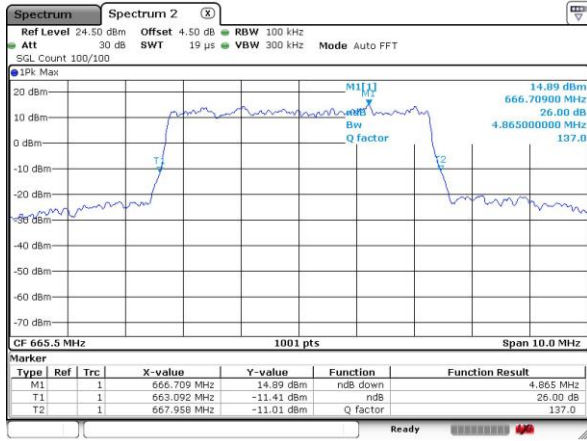


Date: 6.OCT.2018 22:36:52



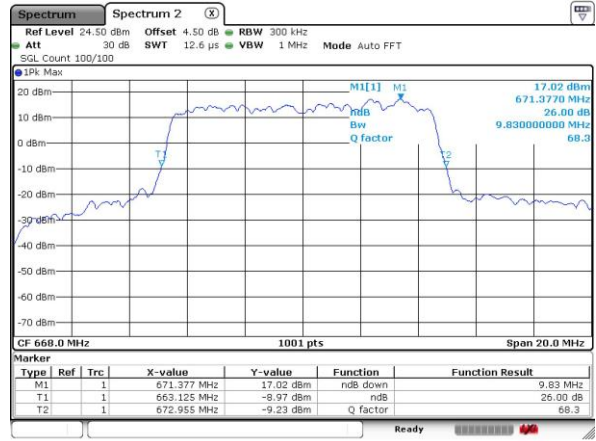
LTE Band 71

Lowest Channel / 5MHz / 64QAM



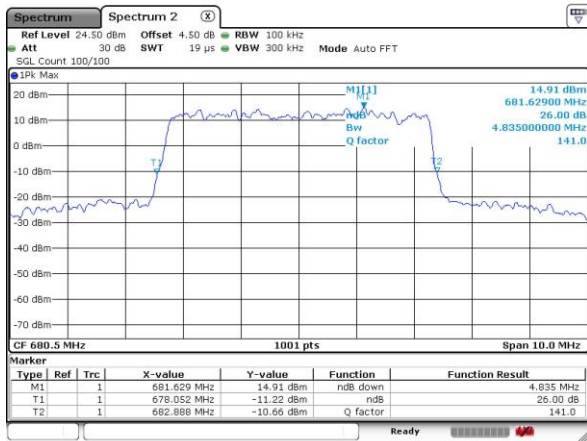
Date: 6.OCT.2018 21:58:33

Lowest Channel / 10MHz / 64QAM



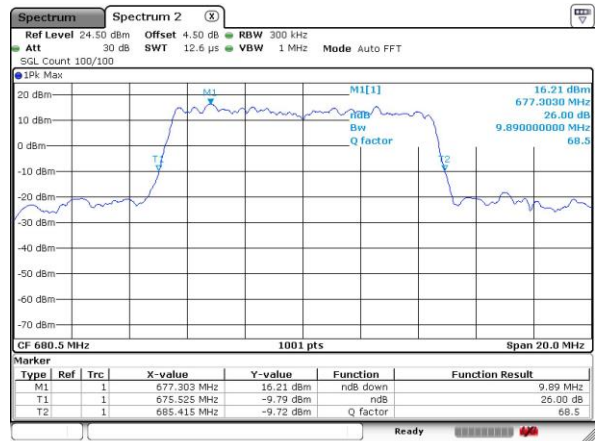
Date: 6.OCT.2018 22:11:32

Middle Channel / 5MHz / 64QAM



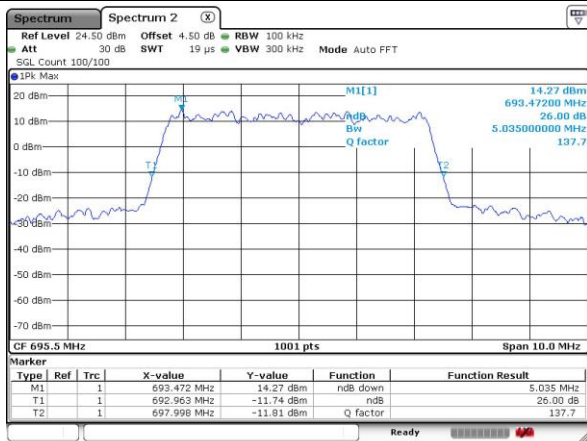
Date: 6.OCT.2018 22:00:38

Middle Channel / 10MHz / 64QAM



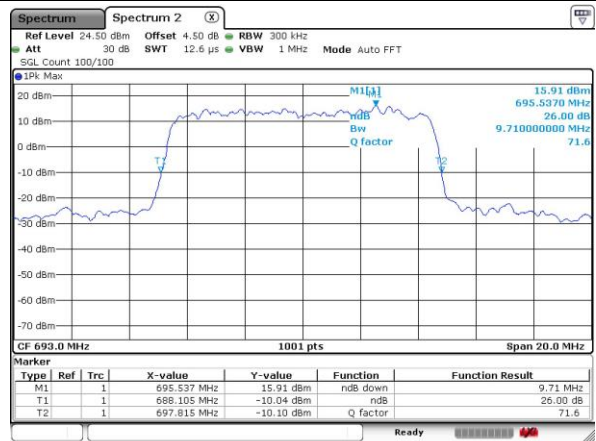
Date: 6.OCT.2018 22:12:12

Highest Channel / 5MHz / 64QAM



Date: 6.OCT.2018 22:05:12

Highest Channel / 10MHz / 64QAM



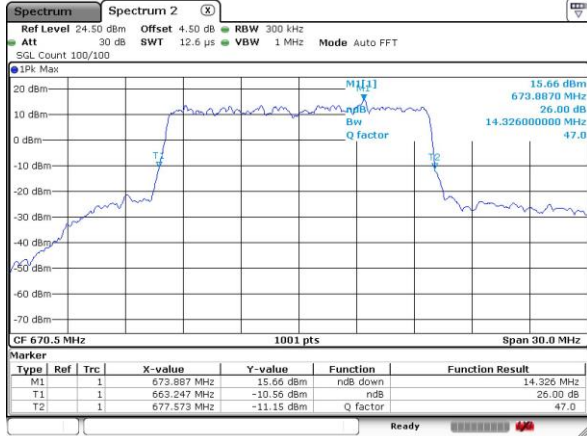
Date: 6.OCT.2018 22:16:33





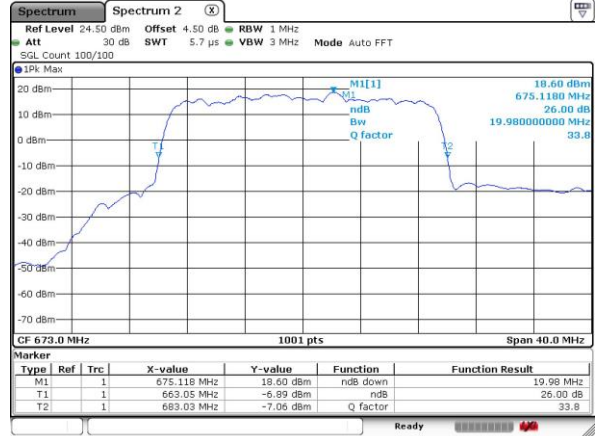
LTE Band 71

Lowest Channel / 15MHz / 64QAM



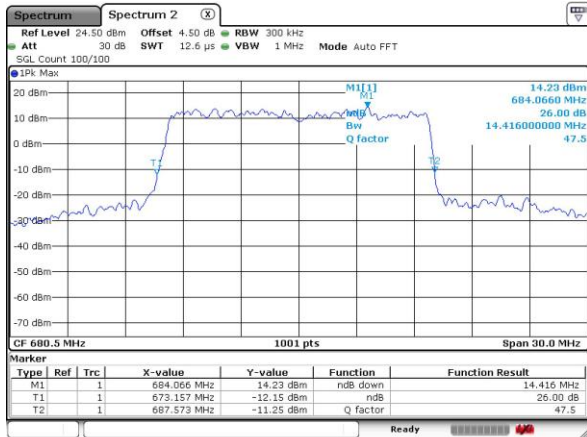
Date: 6.OCT.2018 22:20:36

Lowest Channel / 20MHz / 64QAM



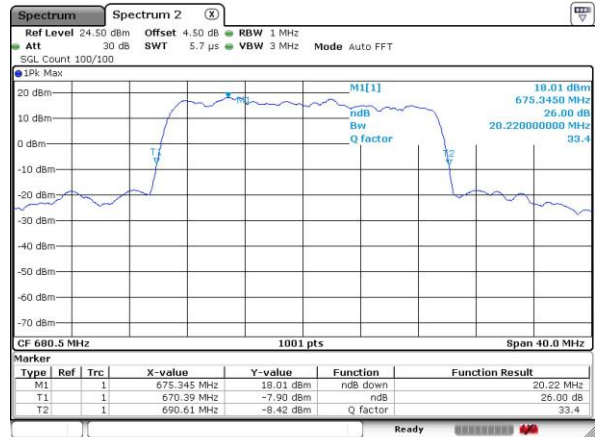
Date: 6.OCT.2018 22:31:13

Middle Channel / 15MHz / 64QAM



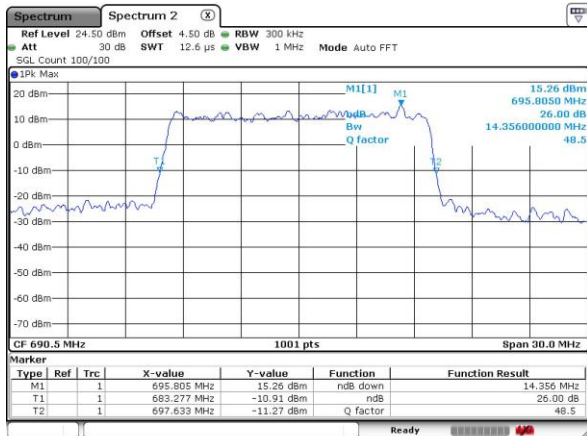
Date: 6.OCT.2018 22:22:30

Middle Channel / 20MHz / 64QAM



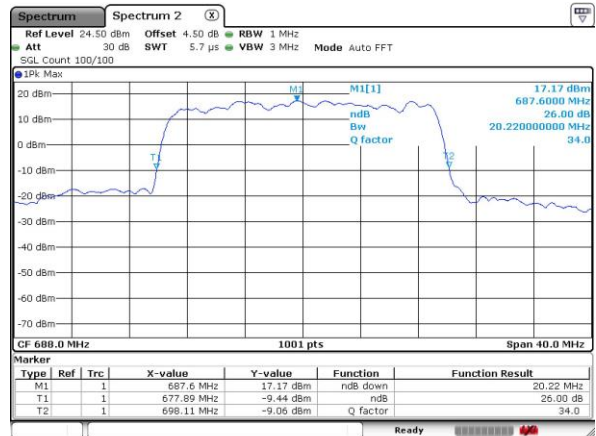
Date: 6.OCT.2018 22:34:58

Highest Channel / 15MHz / 64QAM



Date: 6.OCT.2018 22:27:14

Highest Channel / 20MHz / 64QAM



Date: 6.OCT.2018 22:36:16



Occupied Bandwidth

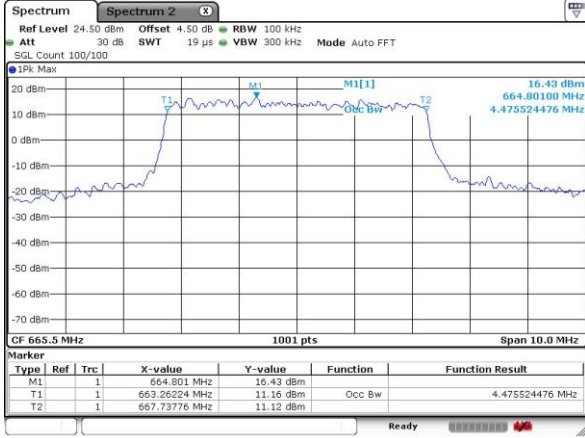
Mode	LTE Band 71 : 99%OBW(MHz)											
	5MHz		10MHz		15MHz		20MHz		5MHz	10MHz	15MHz	20MHz
BW												
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM	64QAM	64QAM
Lowest CH	4.48	4.49	9.03	9.09	13.43	13.46	18.34	18.38	4.51	9.05	13.46	18.26
Middle CH	4.48	4.51	9.05	8.99	13.43	13.49	18.38	18.46	4.51	9.03	13.4	18.34
Highest CH	4.48	4.48	9.03	9.03	13.37	13.4	18.38	18.26	4.49	8.97	13.4	18.38





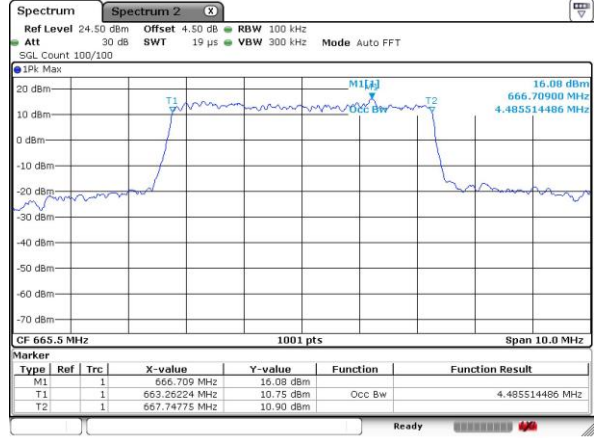
LTE Band 71

Lowest Channel / 5MHz / QPSK



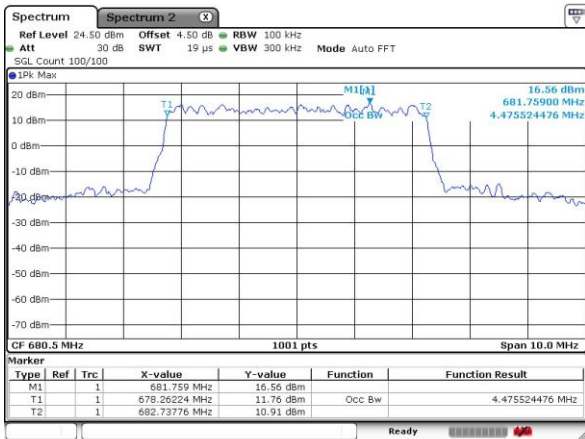
Date: 6 OCT 2018 21:56:57

Lowest Channel / 5MHz / 16QAM



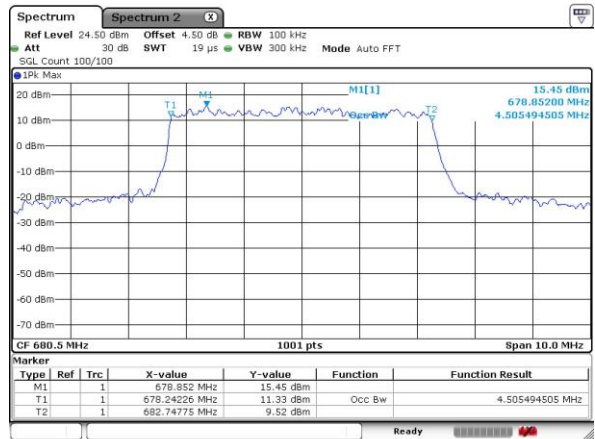
Date: 6 OCT 2018 21:57:33

Middle Channel / 5MHz / QPSK



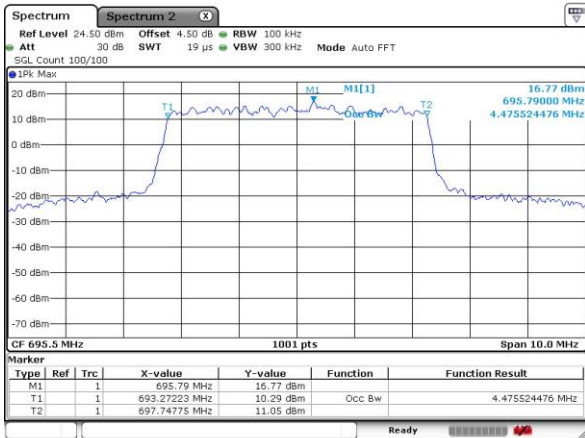
Date: 6 OCT 2018 22:01:55

Middle Channel / 5MHz / 16QAM



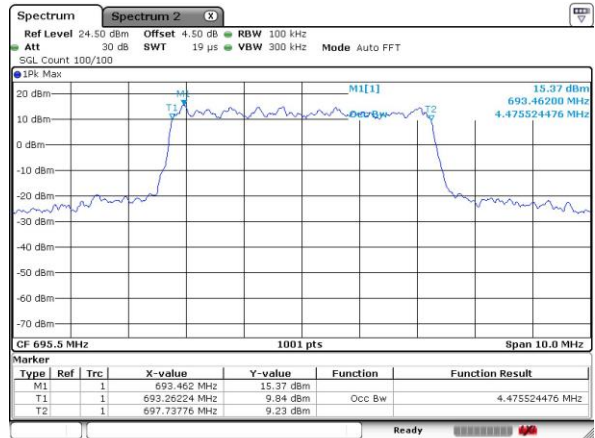
Date: 6 OCT 2018 22:01:34

Highest Channel / 5MHz / QPSK



Date: 6 OCT 2018 22:04:04

Highest Channel / 5MHz / 16QAM



Date: 6 OCT 2018 22:04:26