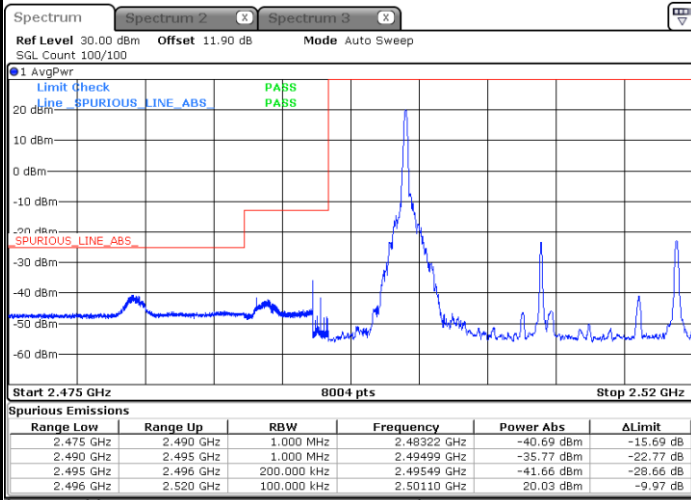




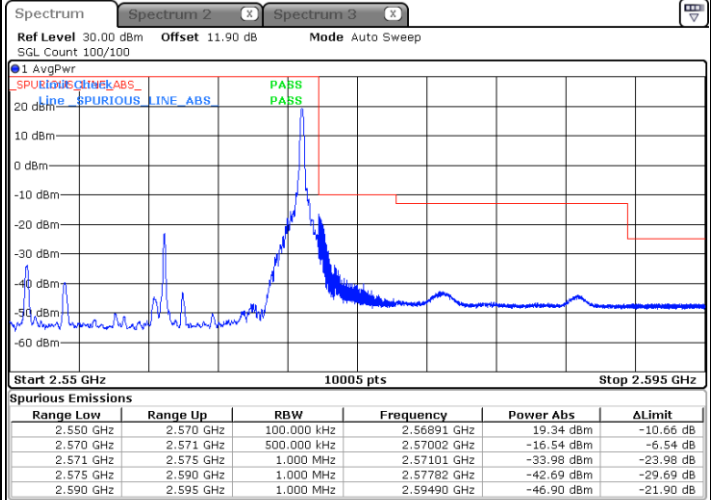
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



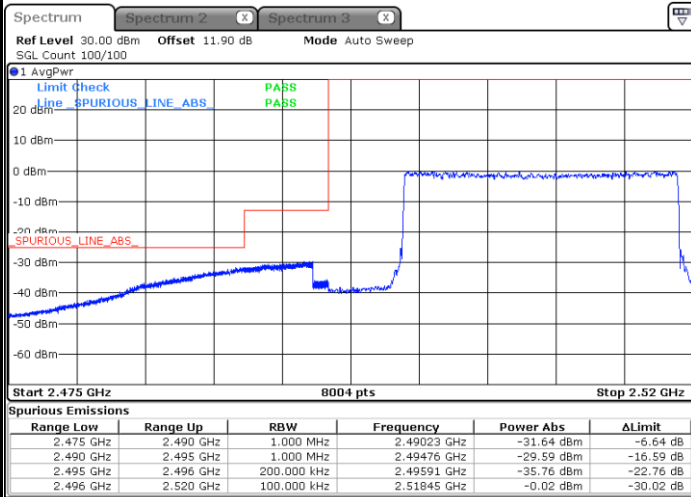
Date: 2 AUG 2017 14:48:29

Highest Band Edge / 1RB



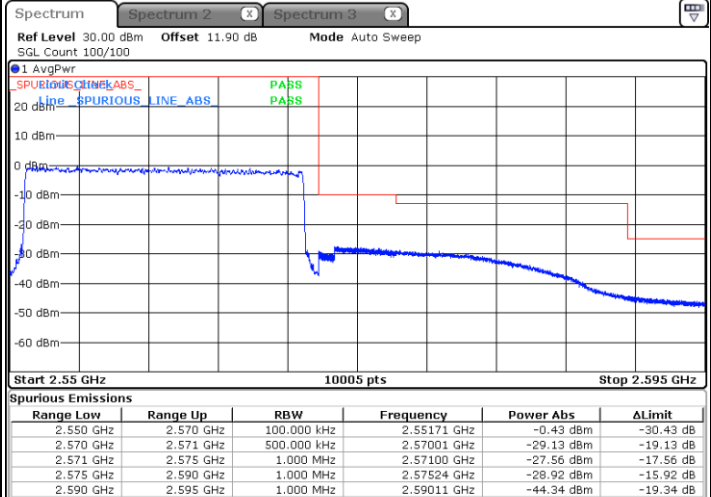
Date: 2 AUG 2017 14:58:00

Lowest Band Edge / Full RB



Date: 2 AUG 2017 14:50:48

Highest Band Edge / Full RB



Date: 2 AUG 2017 14:59:10



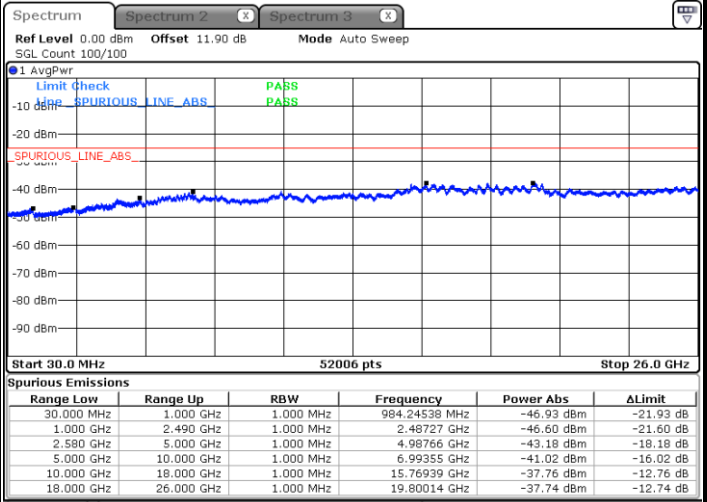
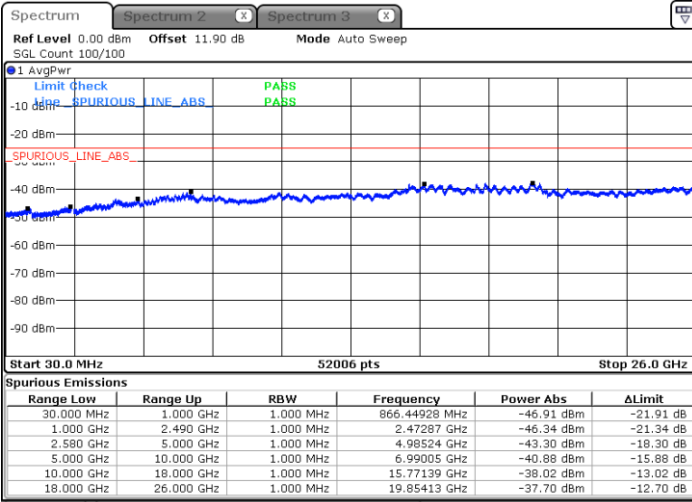
**Conducted Spurious Emission**



LTE Band 7 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

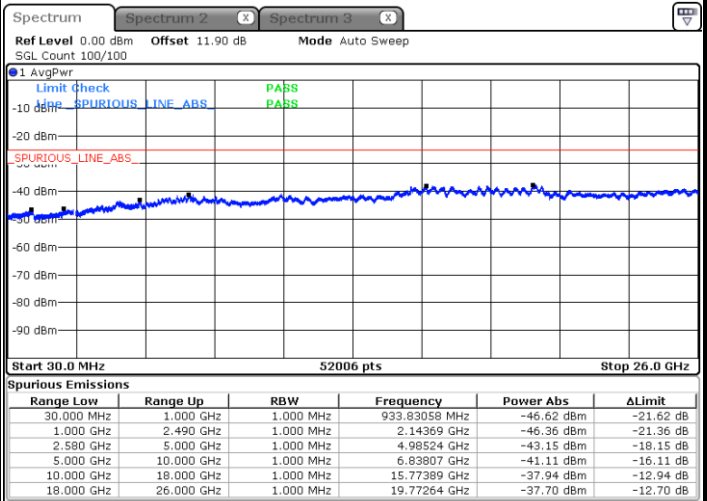
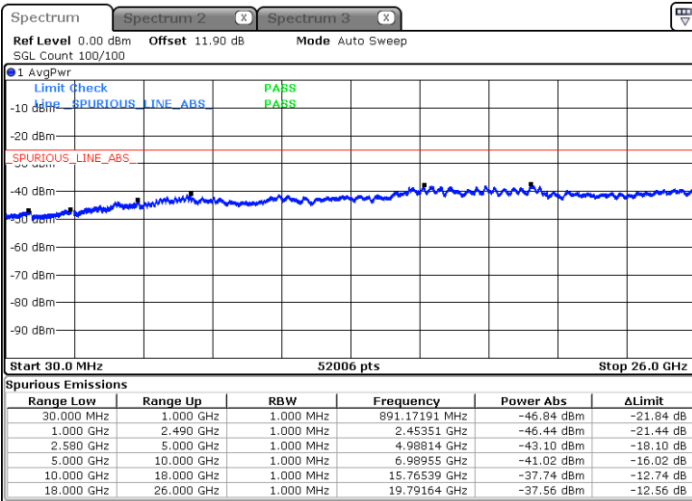


Date: 2 AUG.2017 14:01:57

Date: 2 AUG.2017 14:02:50

Middle Channel / QPSK

Middle Channel / 16QAM



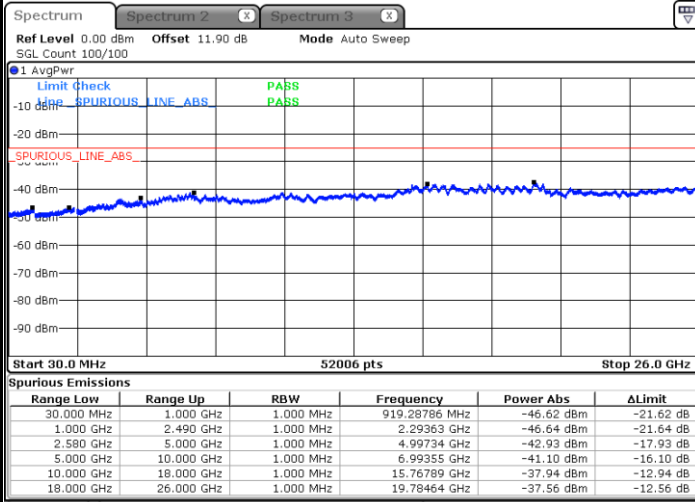
Date: 2 AUG.2017 14:04:24

Date: 2 AUG.2017 14:05:17



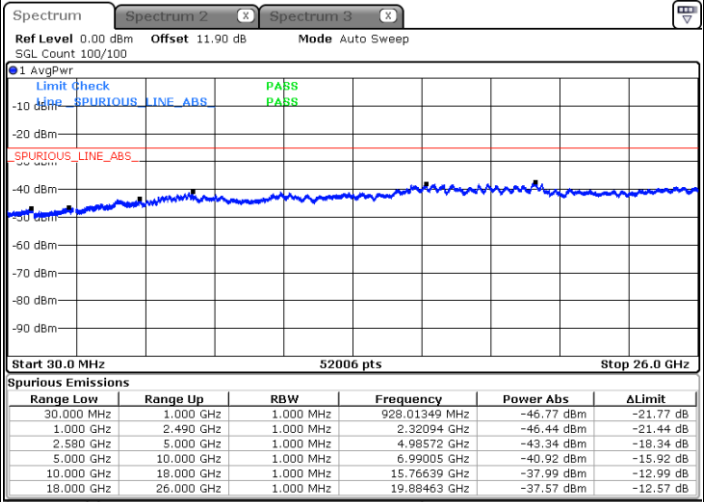
LTE Band 7 / 5MHz

Highest Channel / QPSK



Date: 2 AUG.2017 14:11:28

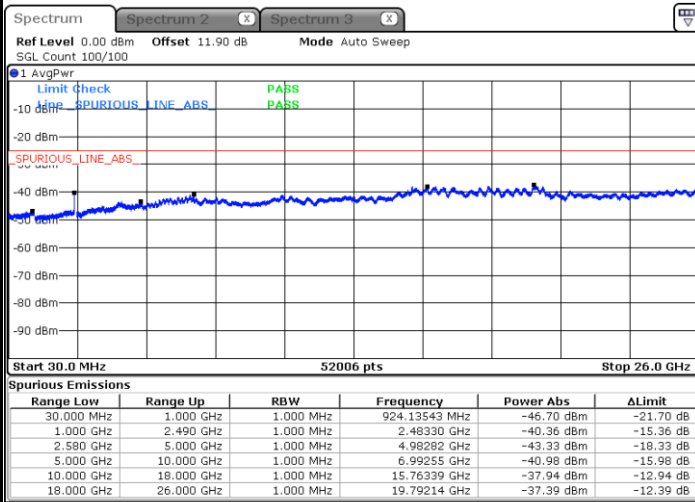
Highest Channel / 16QAM



Date: 2 AUG.2017 14:12:21

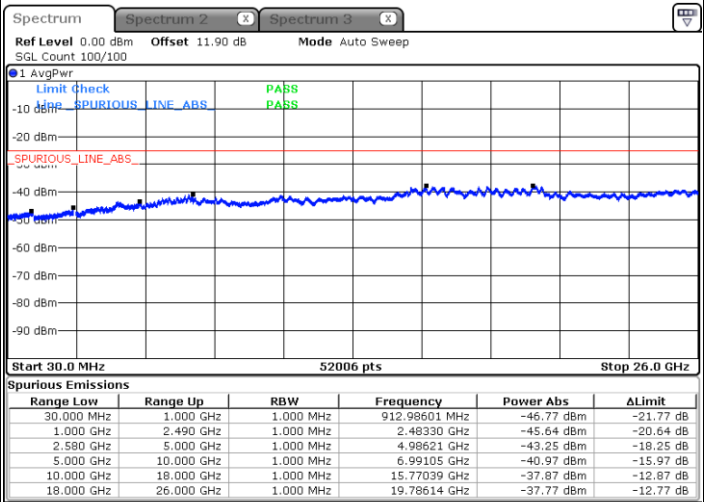
LTE Band 7 / 10MHz

Lowest Channel / QPSK



Date: 2 AUG.2017 14:18:32

Lowest Channel / 16QAM



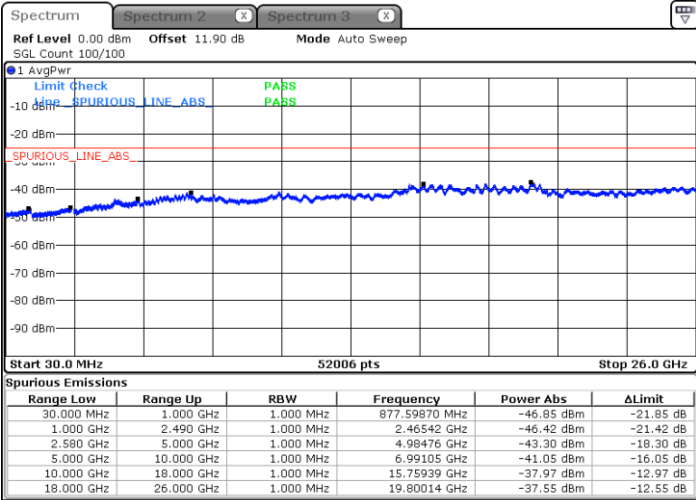
Date: 2 AUG.2017 14:19:25



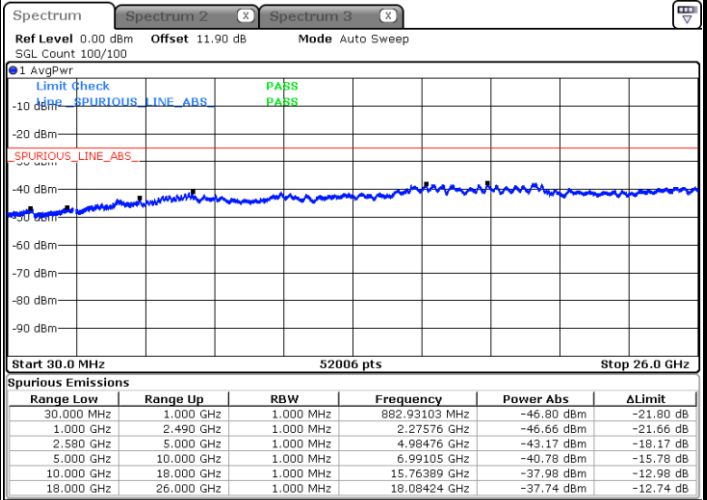
LTE Band 7 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM



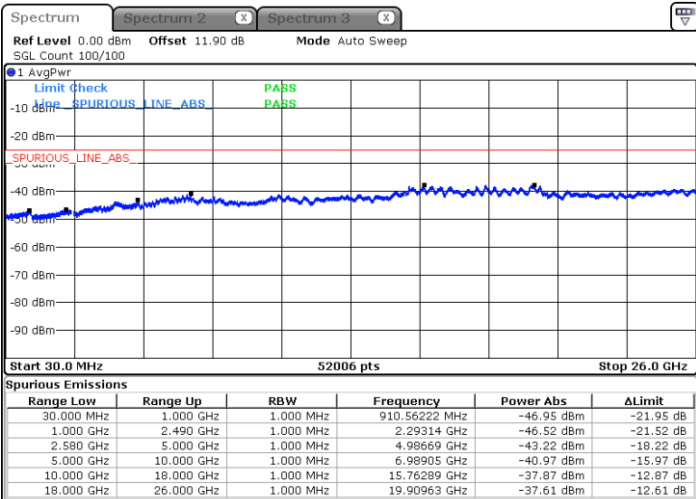
Date: 2 AUG.2017 14:20:58



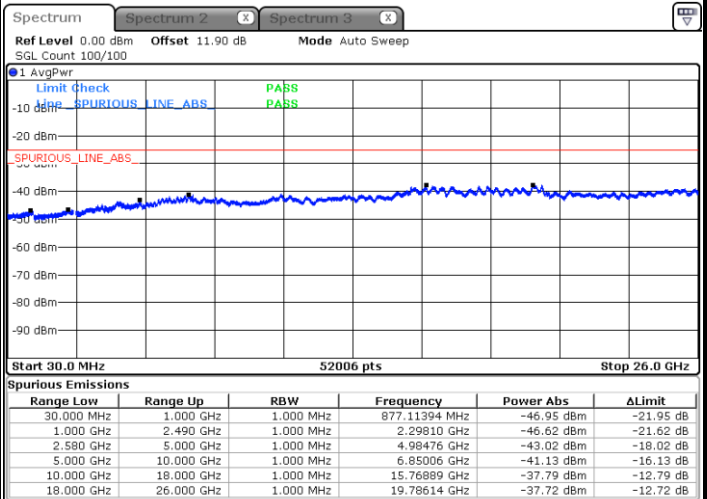
Date: 2 AUG.2017 14:21:52

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 2 AUG.2017 14:28:03



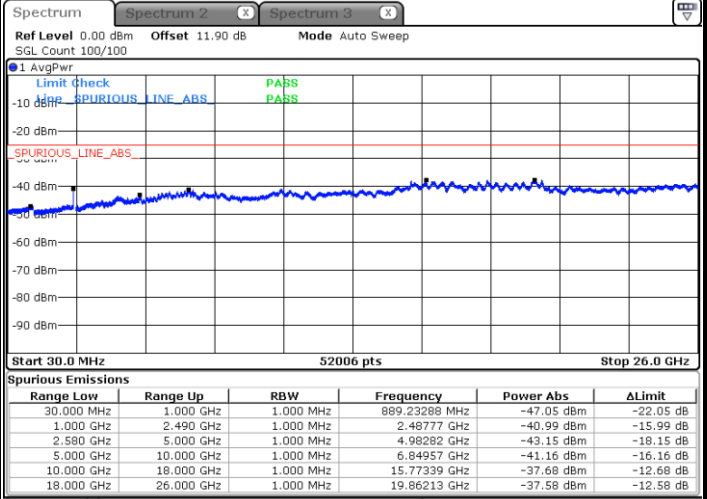
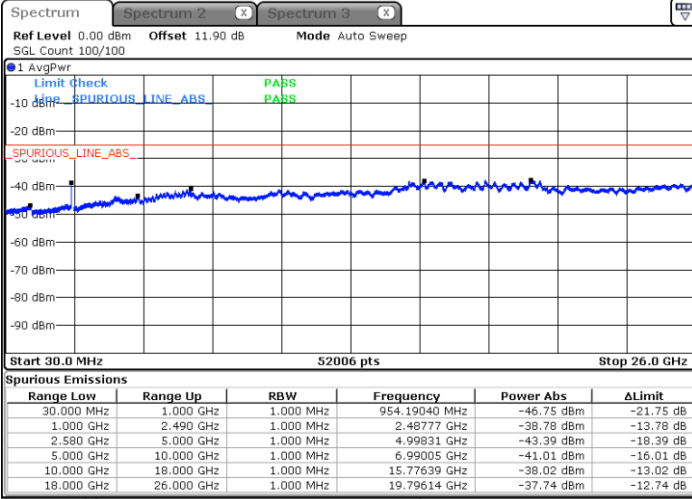
Date: 2 AUG.2017 14:28:56



LTE Band 7 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

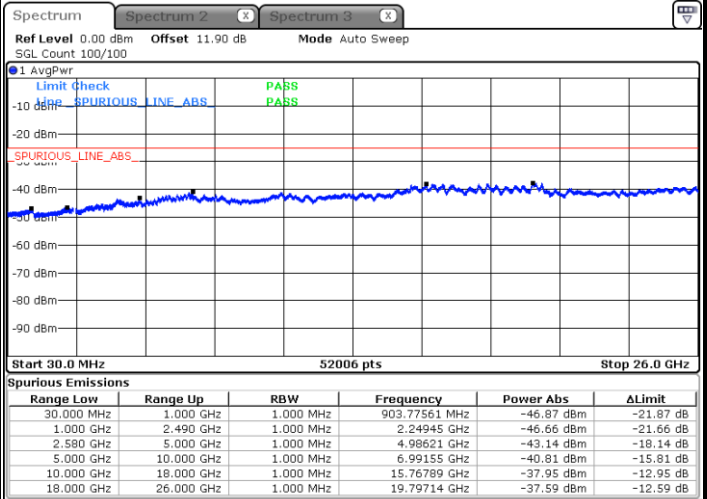
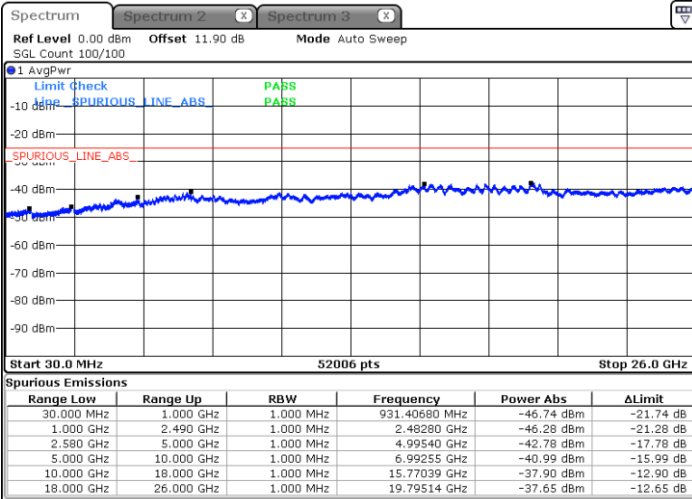


Date: 2 AUG.2017 14:35:07

Date: 2 AUG.2017 14:36:00

Middle Channel / QPSK

Middle Channel / 16QAM



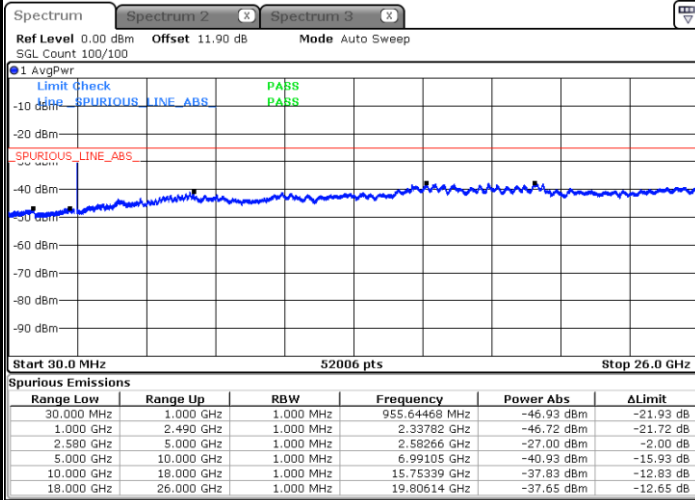
Date: 2 AUG.2017 14:37:33

Date: 2 AUG.2017 14:38:26



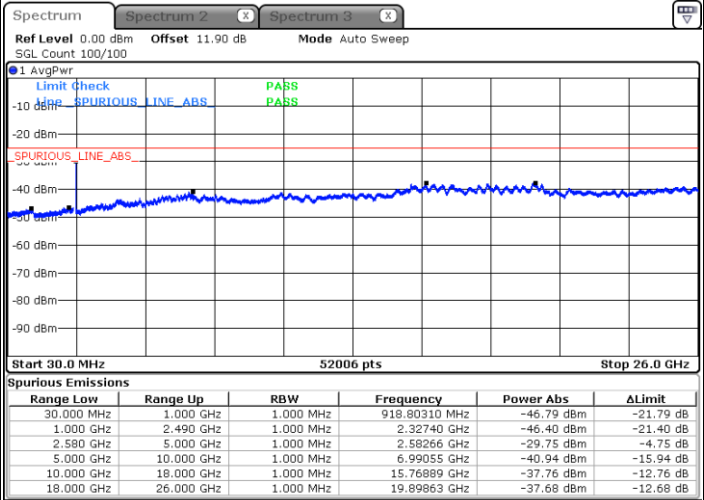
LTE Band7 / 15MHz

Highest Channel / QPSK



Date: 2 AUG.2017 14:44:38

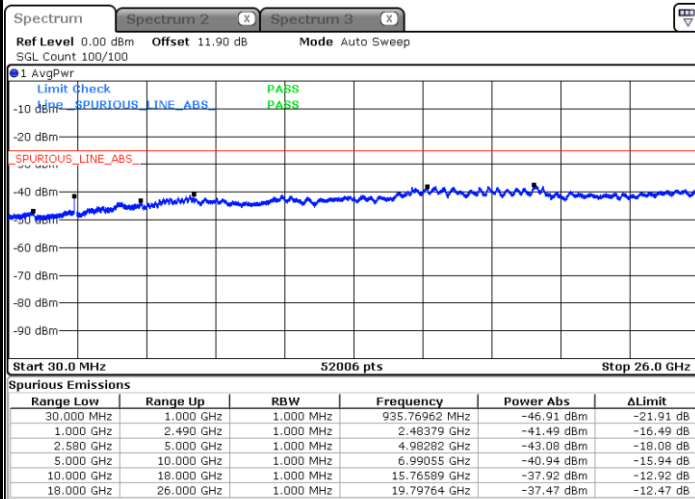
Highest Channel / 16QAM



Date: 2 AUG.2017 14:45:31

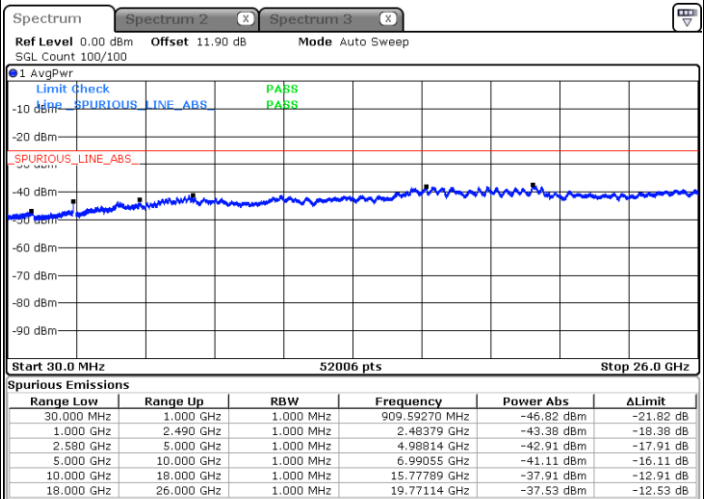
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 2 AUG.2017 14:51:42

Lowest Channel / 16QAM



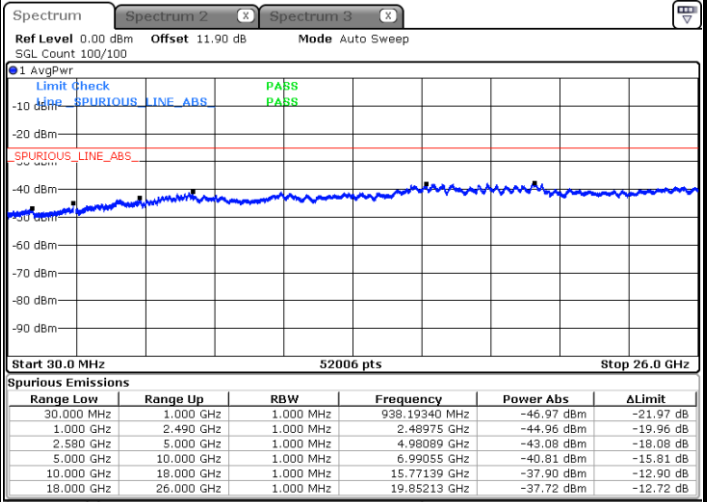
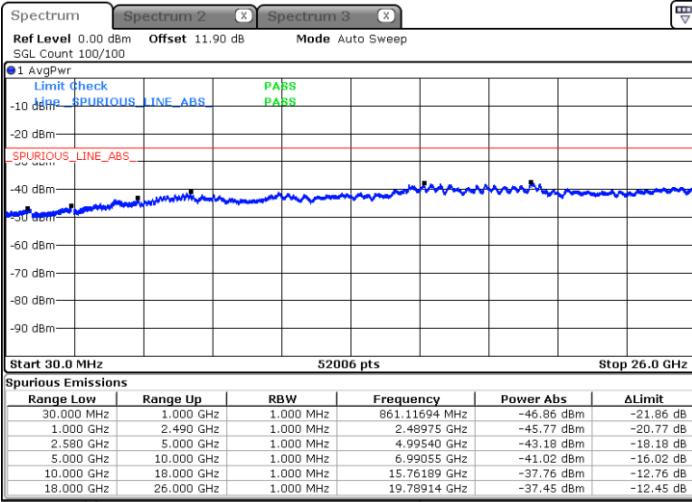
Date: 2 AUG.2017 14:52:35



LTE Band 7 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

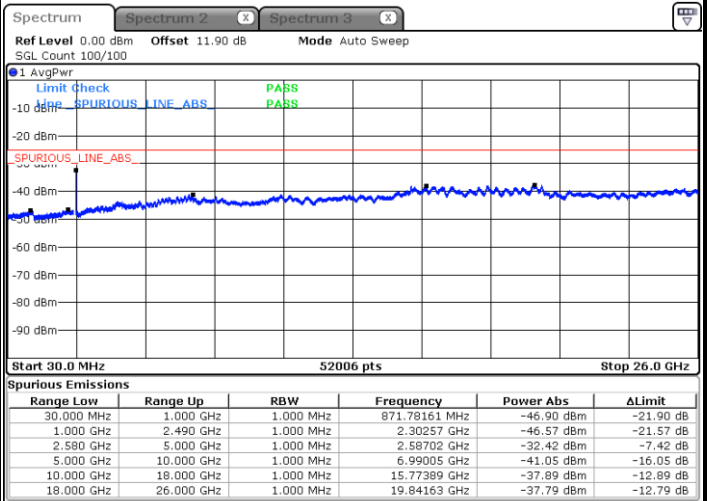
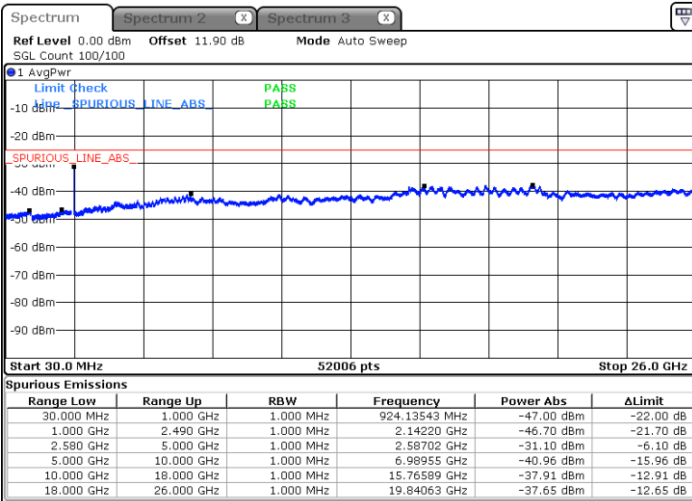


Date: 2 AUG.2017 14:54:08

Date: 2 AUG.2017 14:55:01

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 2 AUG.2017 15:01:13

Date: 2 AUG.2017 15:02:06





**Frequency Stability**

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0091	PASS
40	Normal Voltage	0.0088	
30	Normal Voltage	0.0002	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0096	
0	Normal Voltage	0.0092	
-10	Normal Voltage	0.0092	
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0010	
20	Maximum Voltage	0.0090	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0009	

**Note:**

1. Normal Voltage =4.0 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 38

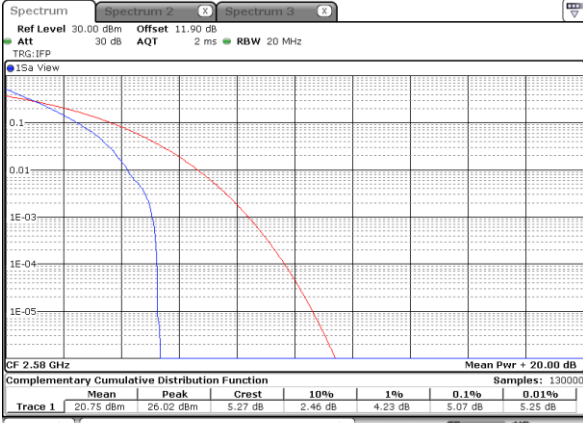
### Peak-to-Average Ratio

Mode	LTE Band 38 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	5.07	5.48	6.29	6.32	<b>PASS</b>
Middle CH	4.99	5.42	6.2	6.2	
Highest CH	5.22	5.42	6.09	6.26	



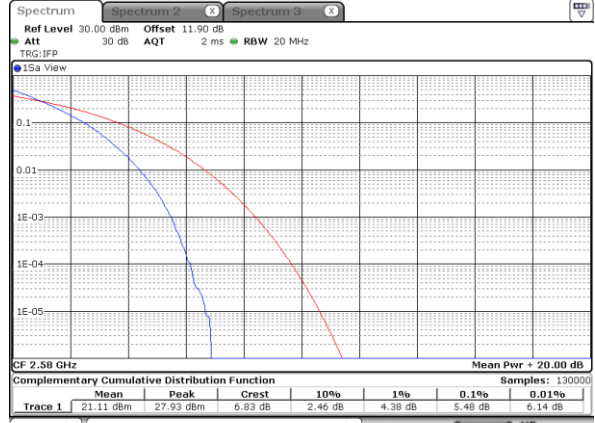
LTE Band 38 / 20MHz / QPSK

Lowest Channel / 1RB



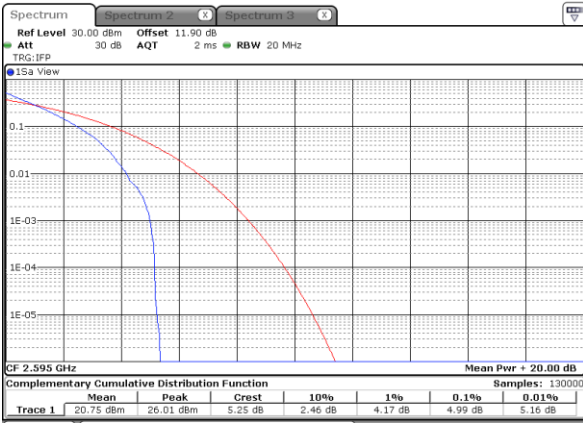
Date: 2 AUG 2017 15:20:26

Lowest Channel / Full RB



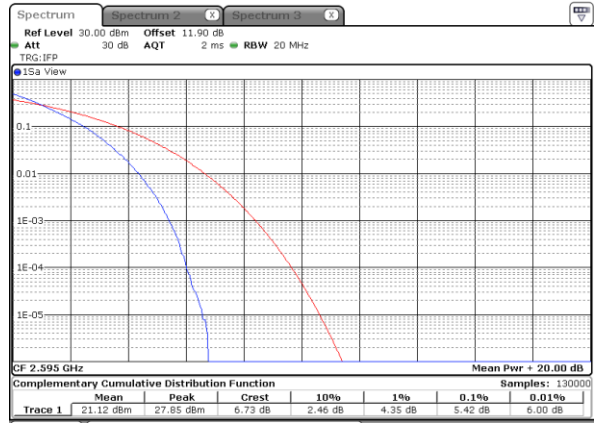
Date: 2 AUG 2017 15:20:52

Middle Channel / 1RB



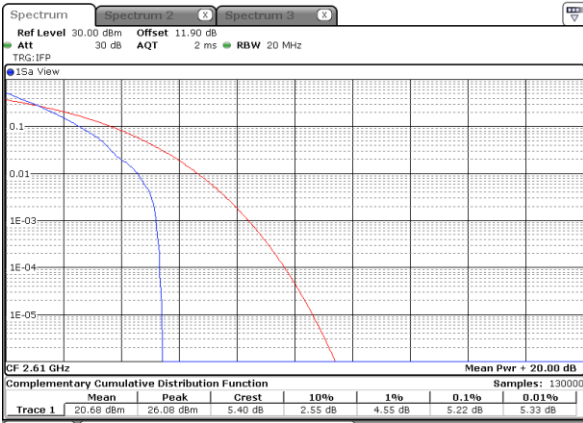
Date: 2 AUG 2017 15:21:06

Middle Channel / Full RB



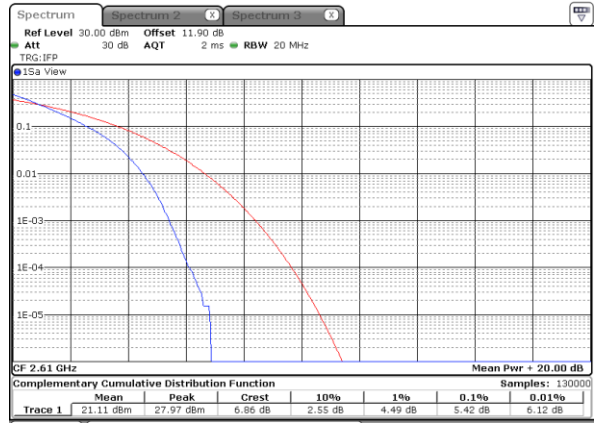
Date: 2 AUG 2017 15:21:20

Highest Channel / 1RB



Date: 2 AUG 2017 15:21:43

Highest Channel / Full RB

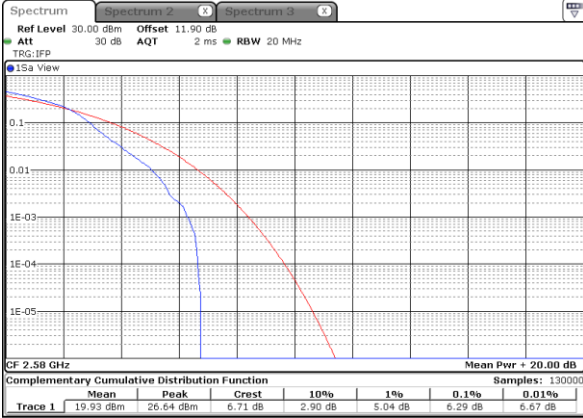


Date: 2 AUG 2017 15:22:00



LTE Band 38 / 20MHz / 16QAM

Lowest Channel / 1RB



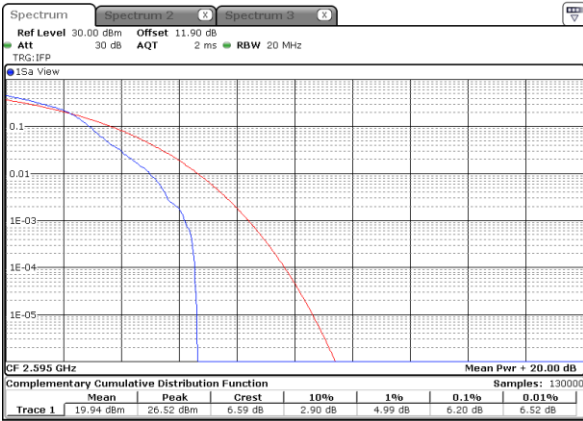
Date: 2 AUG 2017 15:18:22

Lowest Channel / Full RB



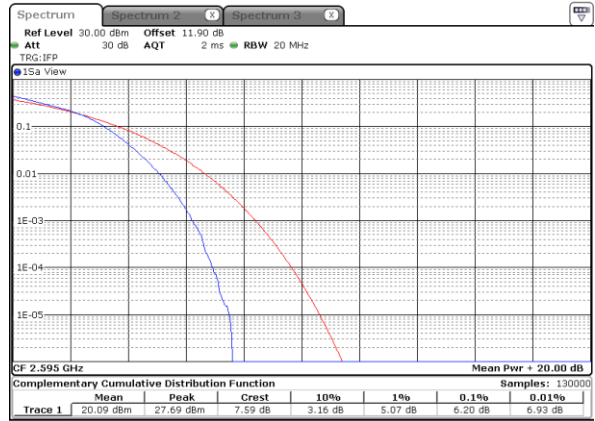
Date: 2 AUG 2017 15:18:51

Middle Channel / 1RB



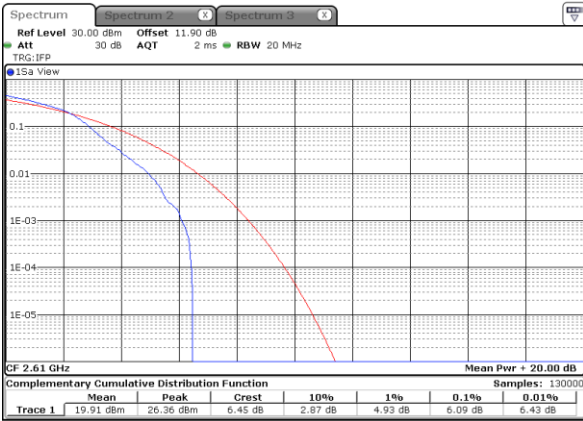
Date: 2 AUG 2017 15:19:05

Middle Channel / Full RB



Date: 2 AUG 2017 15:19:19

Highest Channel / 1RB



Date: 2 AUG 2017 15:19:34

Highest Channel / Full RB



Date: 2 AUG 2017 15:19:57



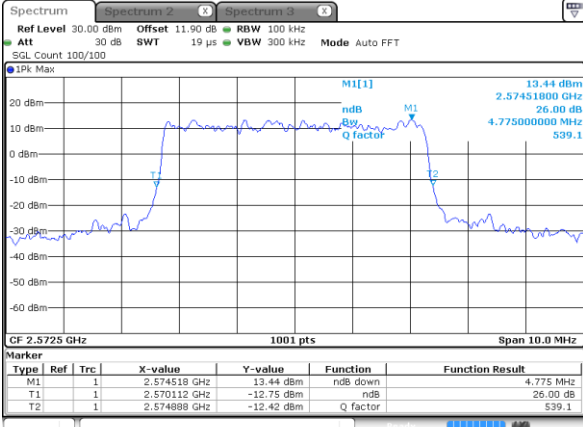
**26dB Bandwidth**

Mode	LTE Band 38 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW												
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.78	4.94	9.87	9.79	14.15	14.36	20.06	20.18
Middle CH	-	-	-	-	5.01	4.86	9.77	9.69	14.09	14.33	20.06	20.10
Highest CH	-	-	-	-	4.86	4.92	9.59	9.69	14.57	14.81	20.30	20.22



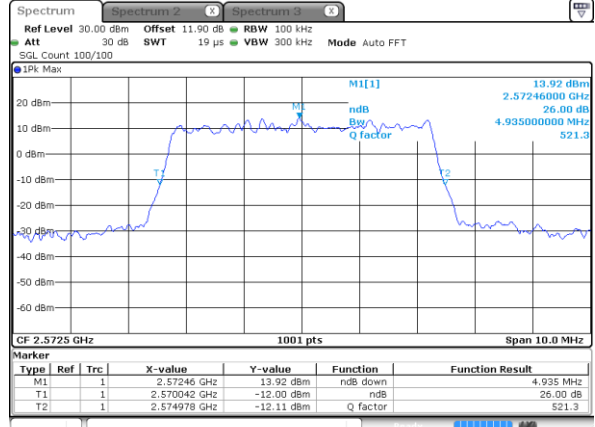
LTE Band 38

Lowest Channel / 5MHz / QPSK



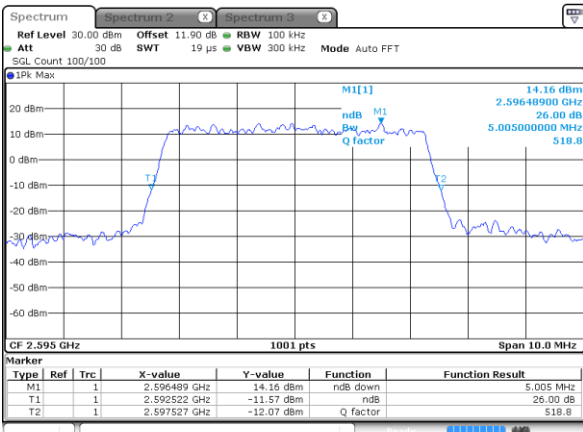
Date: 2 AUG 2017 15:09:03

Lowest Channel / 5MHz / 16QAM



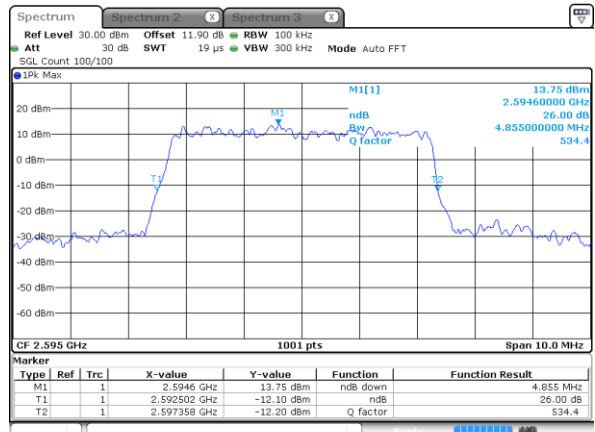
Date: 2 AUG 2017 15:09:13

Middle Channel / 5MHz / QPSK



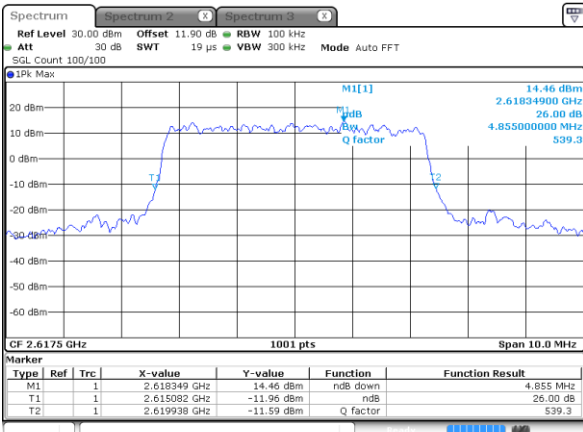
Date: 2 AUG 2017 15:09:44

Middle Channel / 5MHz / 16QAM



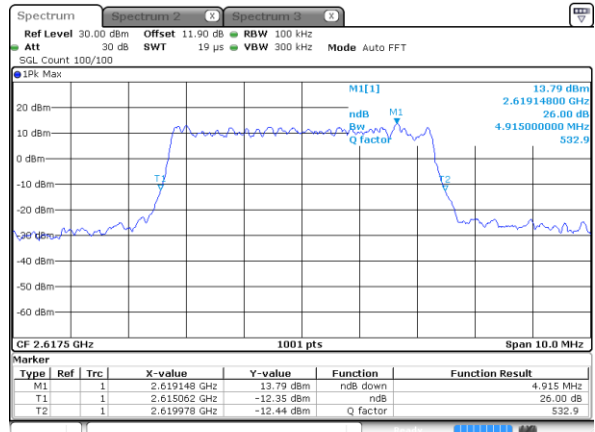
Date: 2 AUG 2017 15:09:54

Highest Channel / 5MHz / QPSK



Date: 2 AUG 2017 15:10:25

Highest Channel / 5MHz / 16QAM

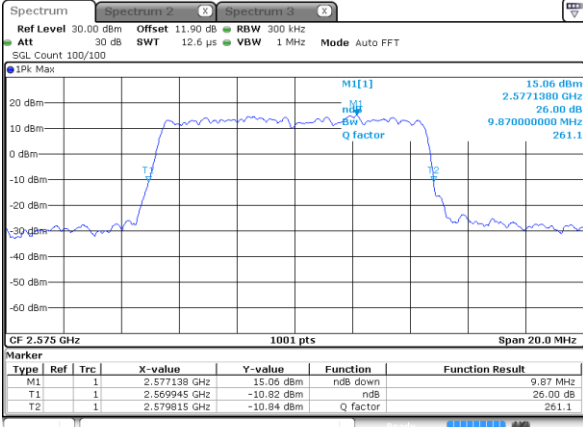


Date: 2 AUG 2017 15:10:35



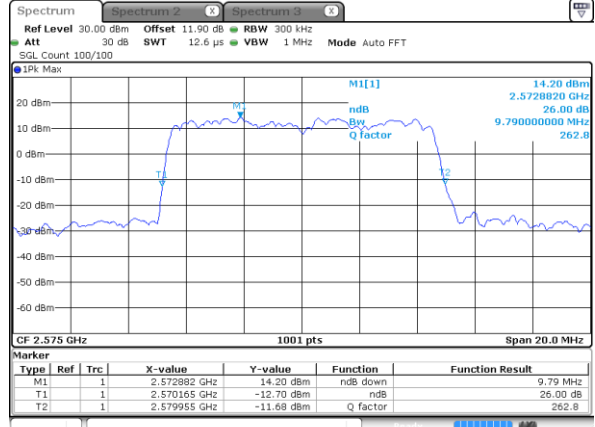
LTE Band 38

Lowest Channel / 10MHz / QPSK



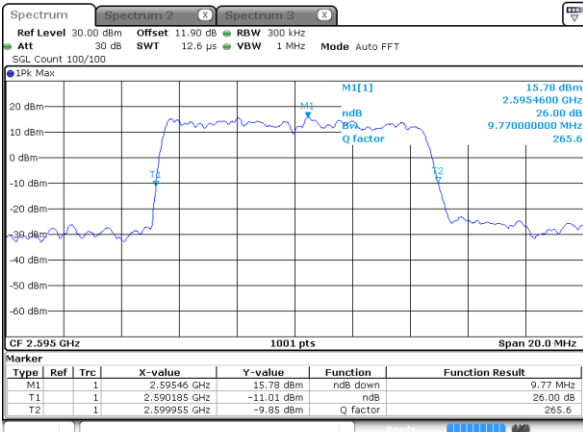
Date: 2 AUG 2017 15:11:06

Lowest Channel / 10MHz / 16QAM



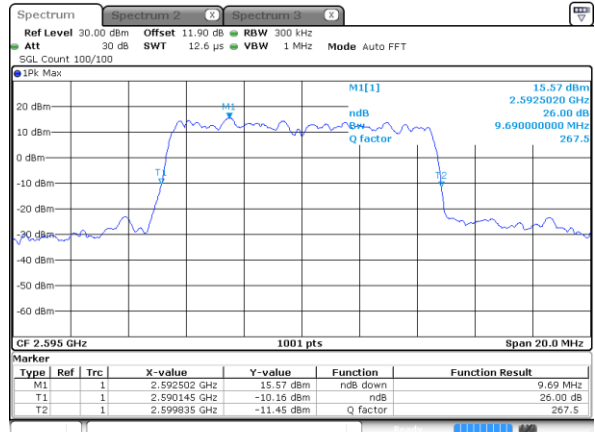
Date: 2 AUG 2017 15:11:16

Middle Channel / 10MHz / QPSK



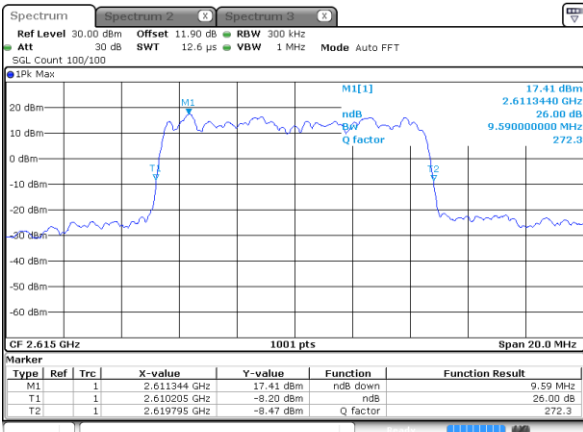
Date: 2 AUG 2017 15:11:47

Middle Channel / 10MHz / 16QAM



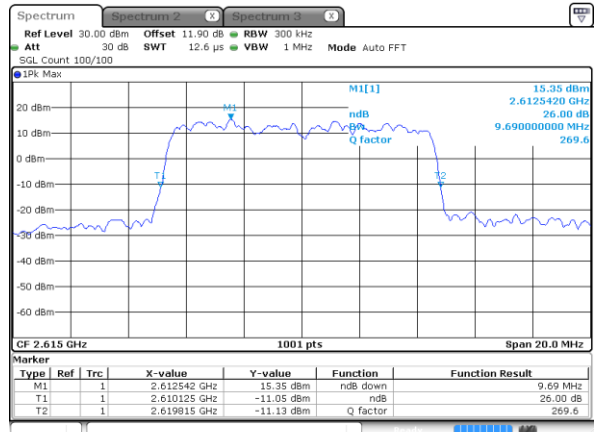
Date: 2 AUG 2017 15:11:57

Highest Channel / 10MHz / QPSK



Date: 2 AUG 2017 15:12:27

Highest Channel / 10MHz / 16QAM

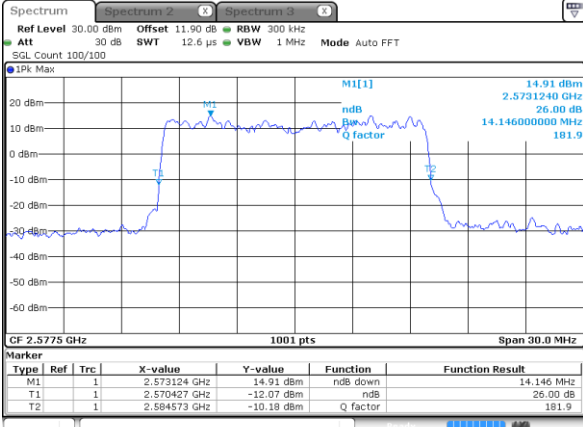


Date: 2 AUG 2017 15:12:37



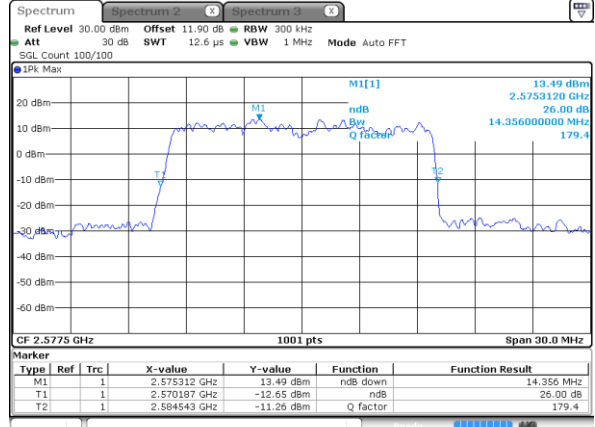
LTE Band 38

Lowest Channel / 15MHz / QPSK



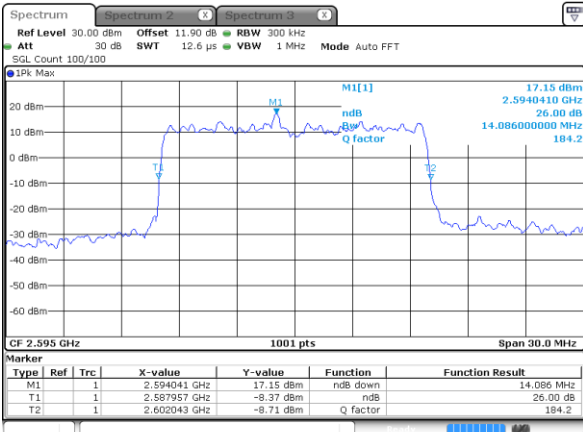
Date: 2 AUG 2017 15:13:07

Lowest Channel / 15MHz / 16QAM



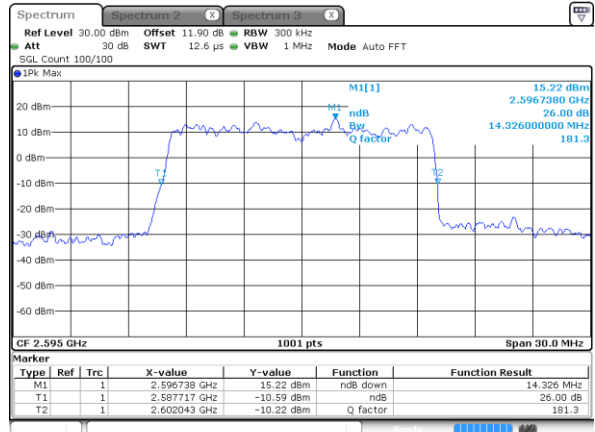
Date: 2 AUG 2017 15:13:18

Middle Channel / 15MHz / QPSK



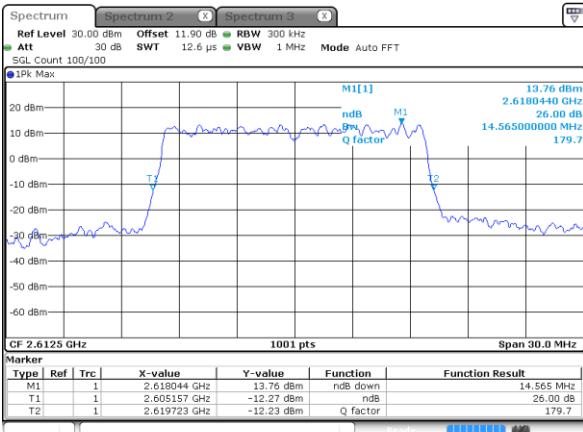
Date: 2 AUG 2017 15:13:48

Middle Channel / 15MHz / 16QAM



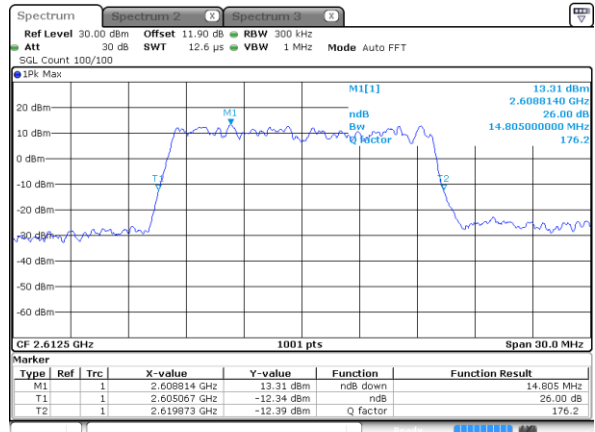
Date: 2 AUG 2017 15:13:58

Highest Channel / 15MHz / QPSK



Date: 2 AUG 2017 15:14:28

Highest Channel / 15MHz / 16QAM



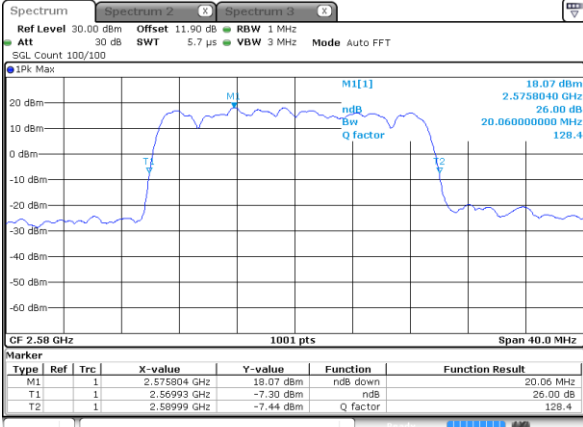
Date: 2 AUG 2017 15:14:38





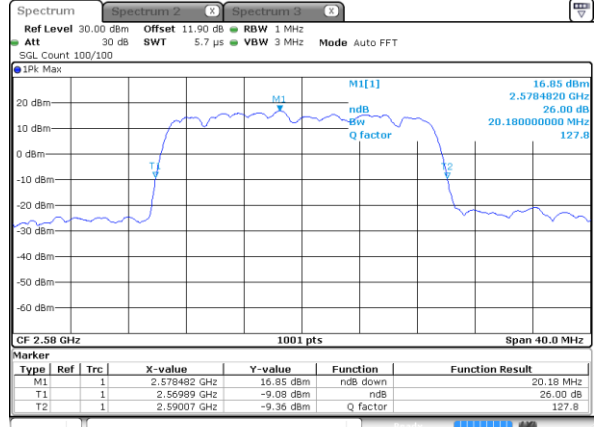
LTE Band 38

Lowest Channel / 20MHz / QPSK



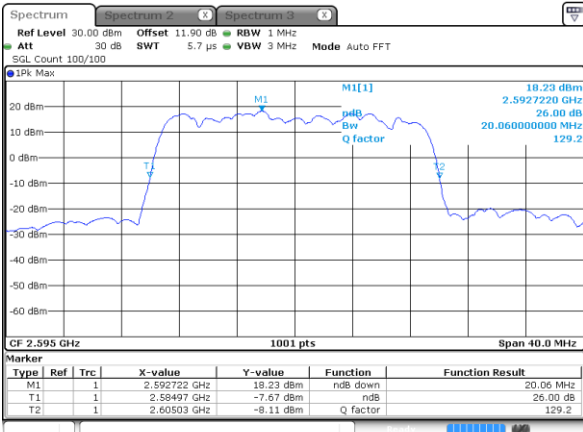
Date: 2 AUG 2017 15:16:06

Lowest Channel / 20MHz / 16QAM



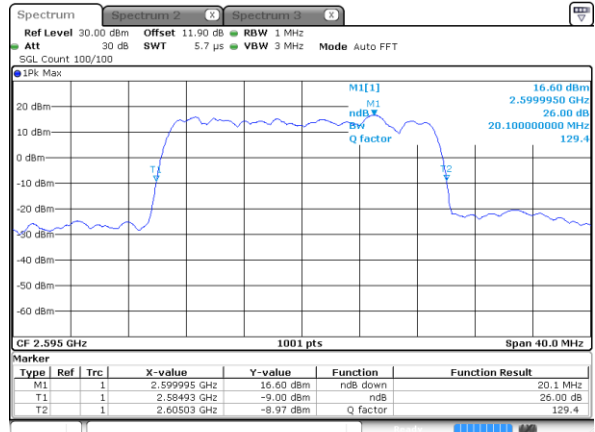
Date: 2 AUG 2017 15:16:16

Middle Channel / 20MHz / QPSK



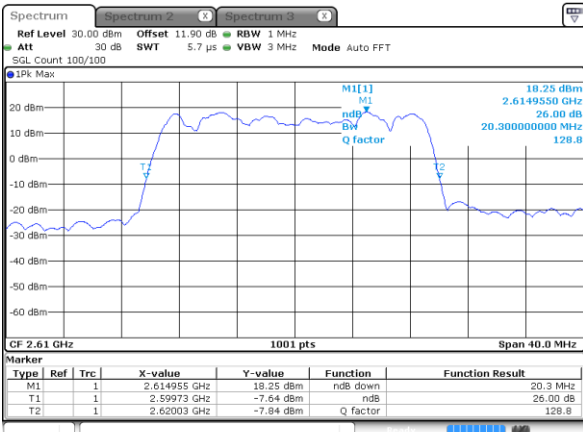
Date: 2 AUG 2017 15:16:46

Middle Channel / 20MHz / 16QAM



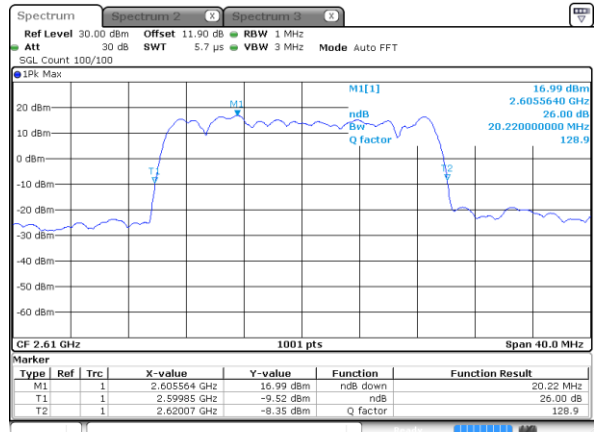
Date: 2 AUG 2017 15:16:56

Highest Channel / 20MHz / QPSK



Date: 2 AUG 2017 15:17:26

Highest Channel / 20MHz / 16QAM



Date: 2 AUG 2017 15:17:36



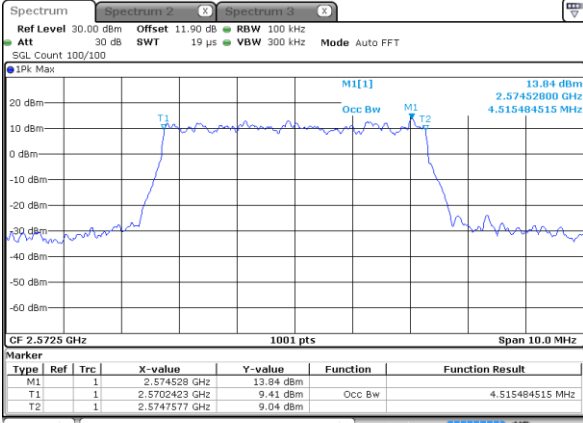
### Occupied Bandwidth

Mode	LTE Band 38 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.52	4.51	9.01	9.05	13.49	13.43	18.46	18.38
Middle CH	-	-	-	-	4.53	4.56	9.07	9.05	13.43	13.43	18.26	18.46
Highest CH	-	-	-	-	4.55	4.47	8.97	9.05	13.46	13.46	18.54	18.62



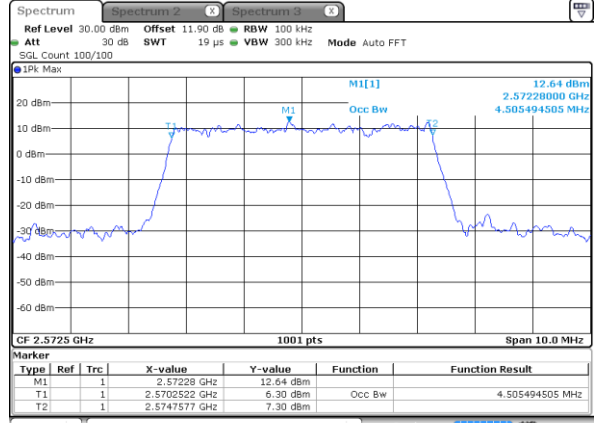
LTE Band 38

Lowest Channel / 5MHz / QPSK



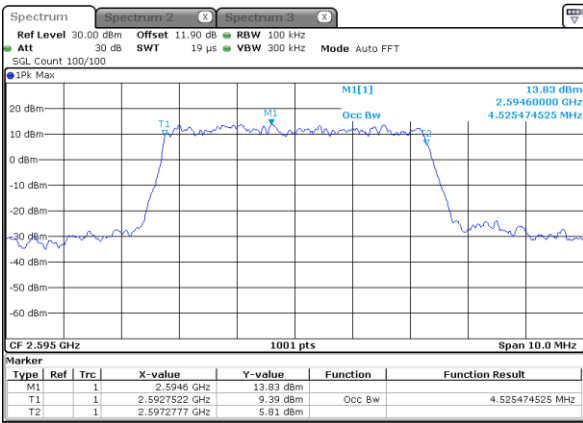
Date: 2 AUG 2017 15:08:43

Lowest Channel / 5MHz / 16QAM



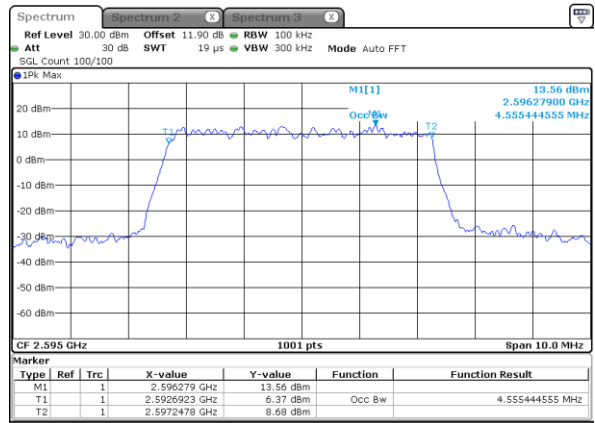
Date: 2 AUG 2017 15:08:53

Middle Channel / 5MHz / QPSK



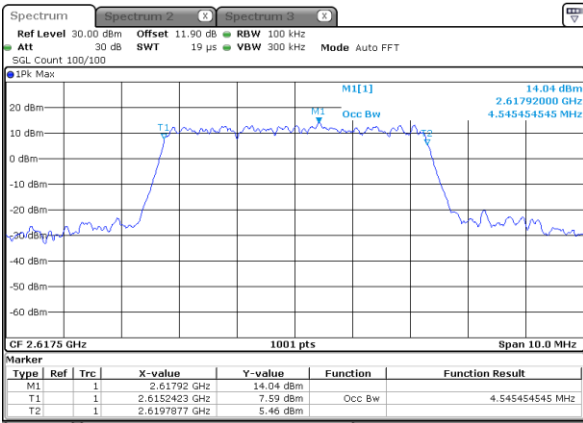
Date: 2 AUG 2017 15:09:23

Middle Channel / 5MHz / 16QAM



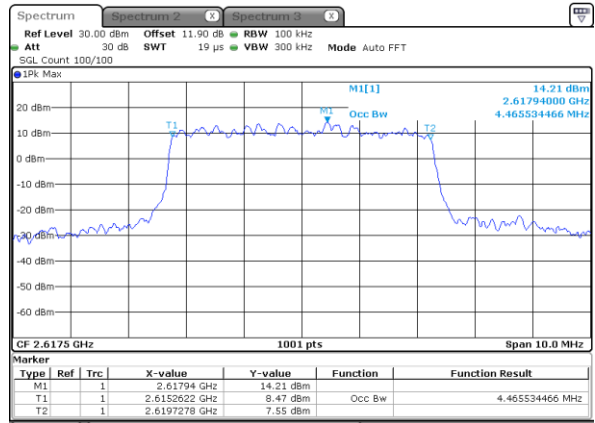
Date: 2 AUG 2017 15:09:34

Highest Channel / 5MHz / QPSK



Date: 2 AUG 2017 15:10:04

Highest Channel / 5MHz / 16QAM

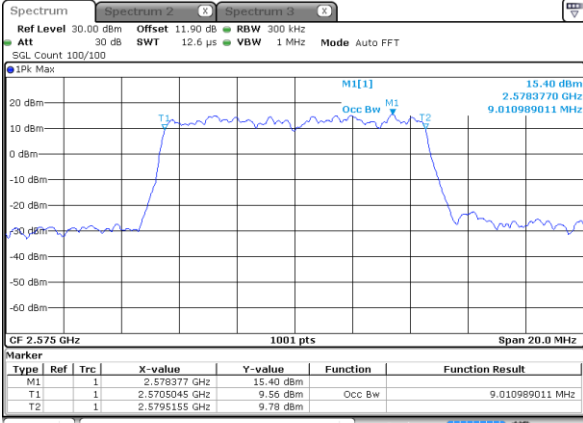


Date: 2 AUG 2017 15:10:14



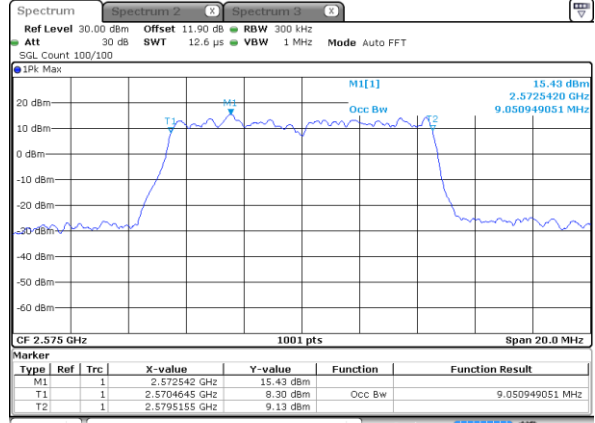
LTE Band 38

Lowest Channel / 10MHz / QPSK



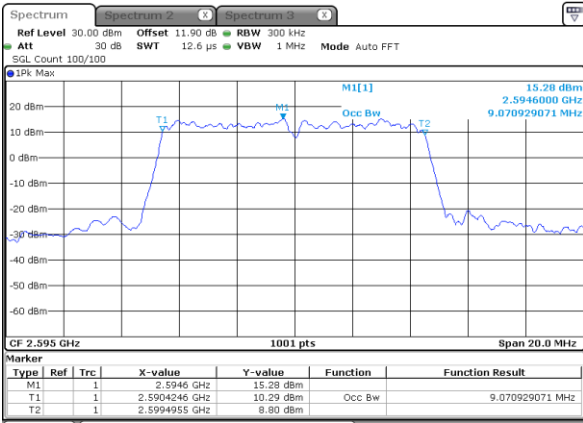
Date: 2 AUG 2017 15:10:46

Lowest Channel / 10MHz / 16QAM



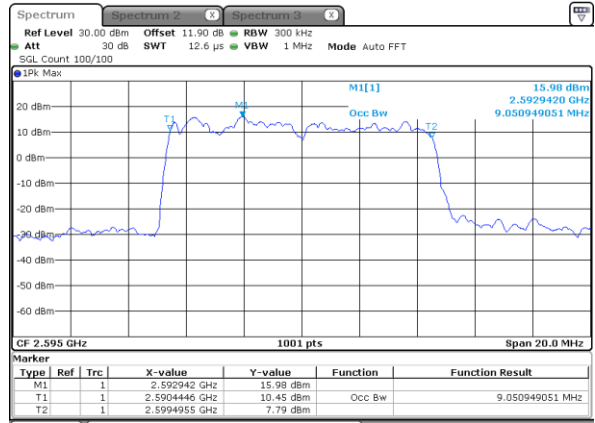
Date: 2 AUG 2017 15:10:56

Middle Channel / 10MHz / QPSK



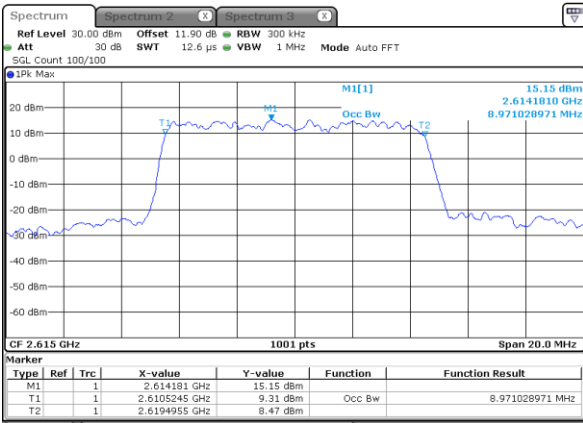
Date: 2 AUG 2017 15:11:26

Middle Channel / 10MHz / 16QAM



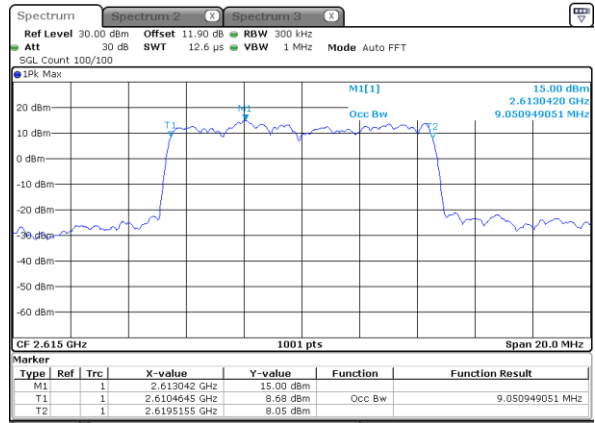
Date: 2 AUG 2017 15:11:37

Highest Channel / 10MHz / QPSK



Date: 2 AUG 2017 15:12:07

Highest Channel / 10MHz / 16QAM

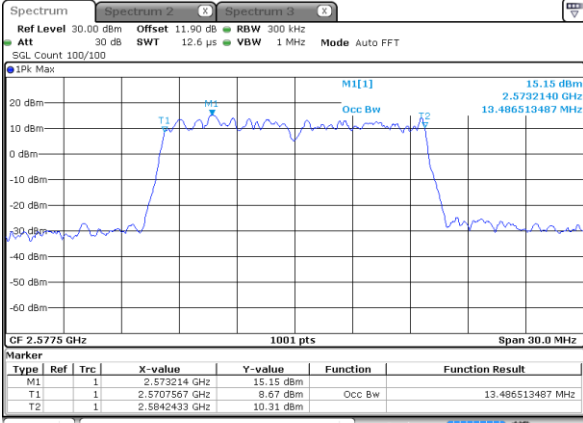


Date: 2 AUG 2017 15:12:17



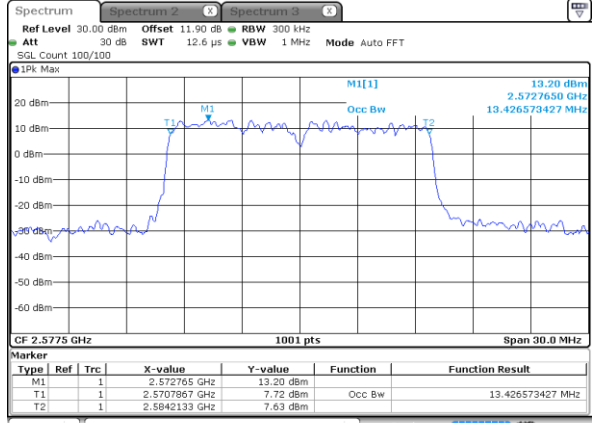
LTE Band 38

Lowest Channel / 15MHz / QPSK



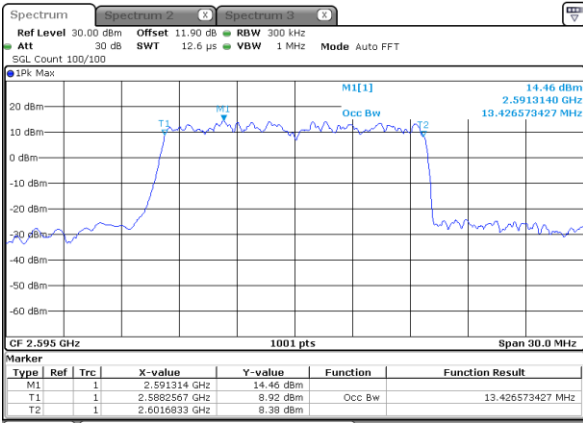
Date: 2 AUG 2017 15:12:47

Lowest Channel / 15MHz / 16QAM



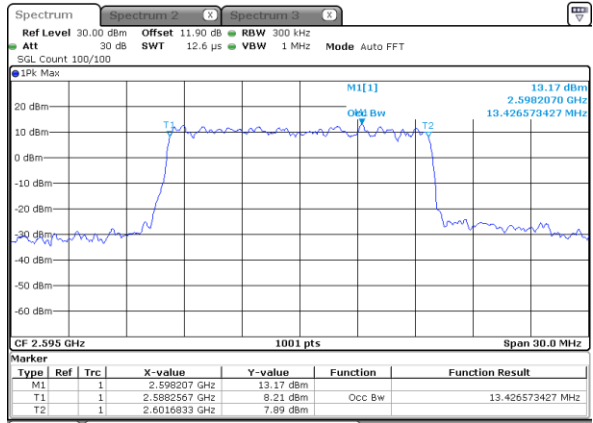
Date: 2 AUG 2017 15:12:57

Middle Channel / 15MHz / QPSK



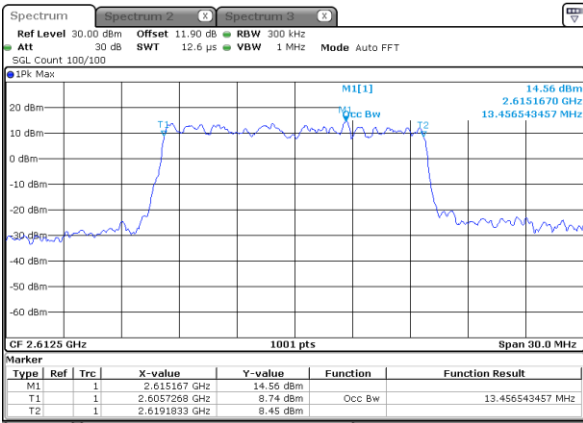
Date: 2 AUG 2017 15:13:28

Middle Channel / 15MHz / 16QAM



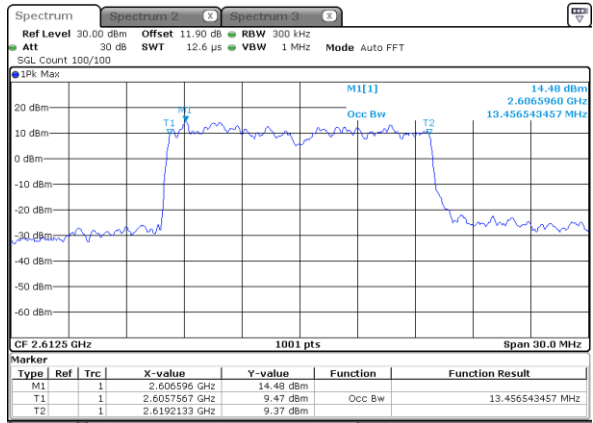
Date: 2 AUG 2017 15:13:38

Highest Channel / 15MHz / QPSK



Date: 2 AUG 2017 15:14:08

Highest Channel / 15MHz / 16QAM

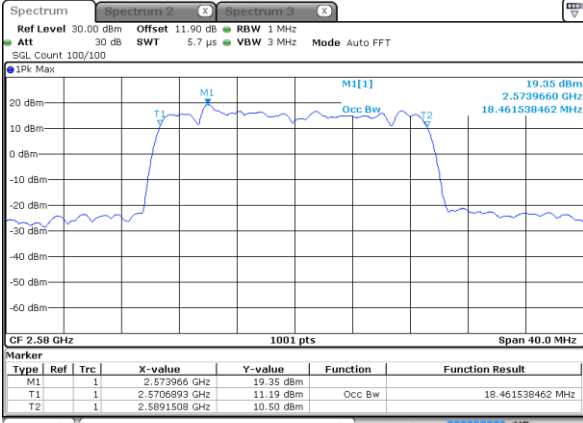


Date: 2 AUG 2017 15:14:18



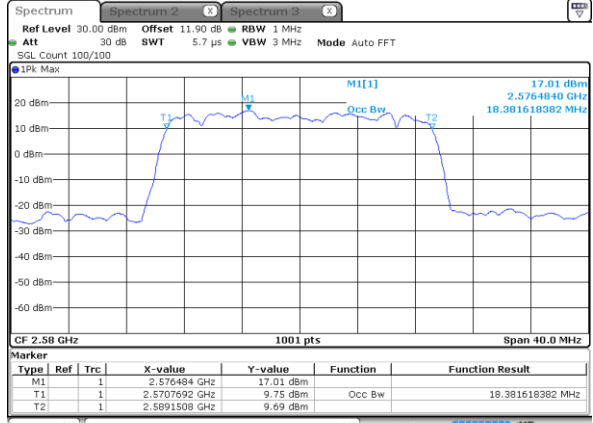
LTE Band 38

Lowest Channel / 20MHz / QPSK



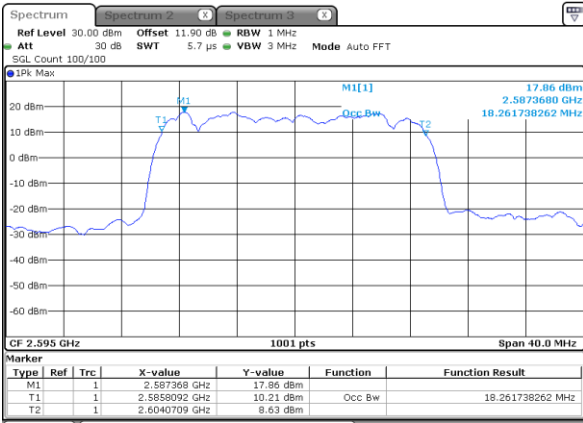
Date: 2 AUG 2017 15:15:46

Lowest Channel / 20MHz / 16QAM



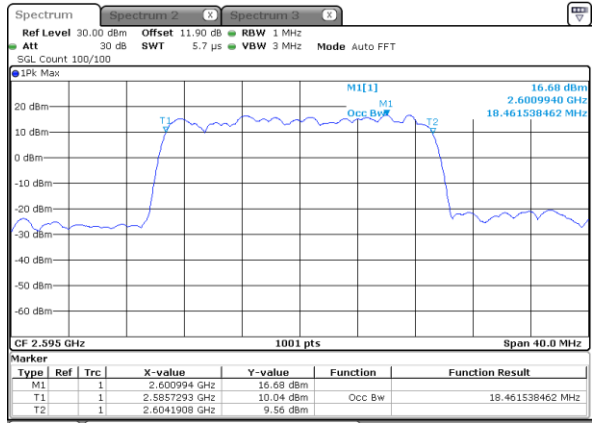
Date: 2 AUG 2017 15:15:56

Middle Channel / 20MHz / QPSK



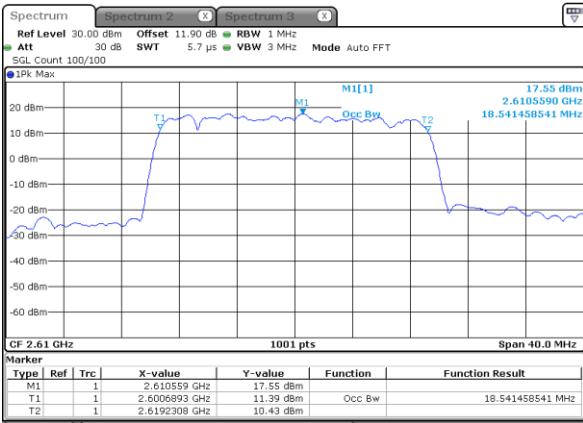
Date: 2 AUG 2017 15:16:26

Middle Channel / 20MHz / 16QAM



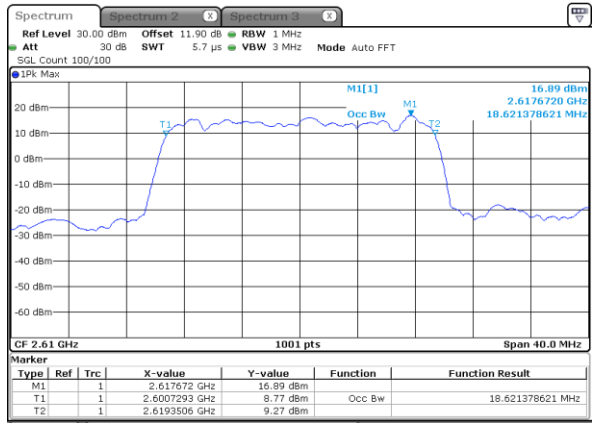
Date: 2 AUG 2017 15:16:36

Highest Channel / 20MHz / QPSK



Date: 2 AUG 2017 15:17:06

Highest Channel / 20MHz / 16QAM



Date: 2 AUG 2017 15:17:16

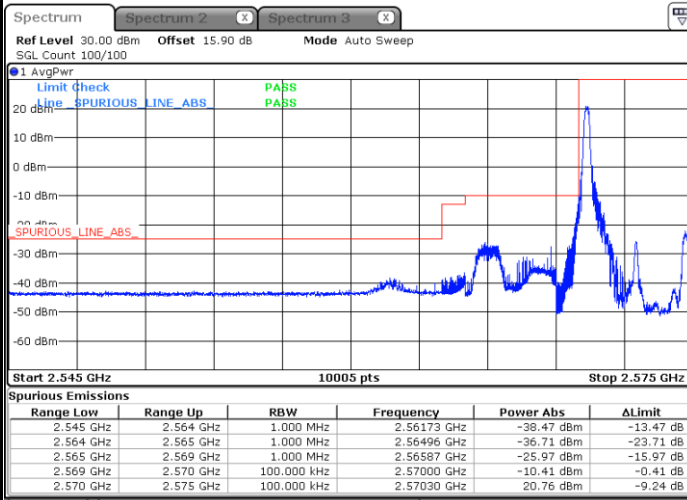


## **Conducted Band Edge**



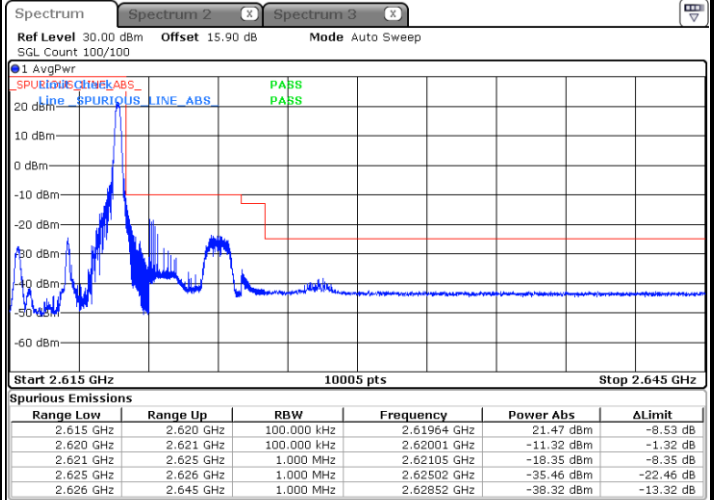
LTE Band 38 / 5MHz / QPSK

Lowest Band Edge / 1 RB



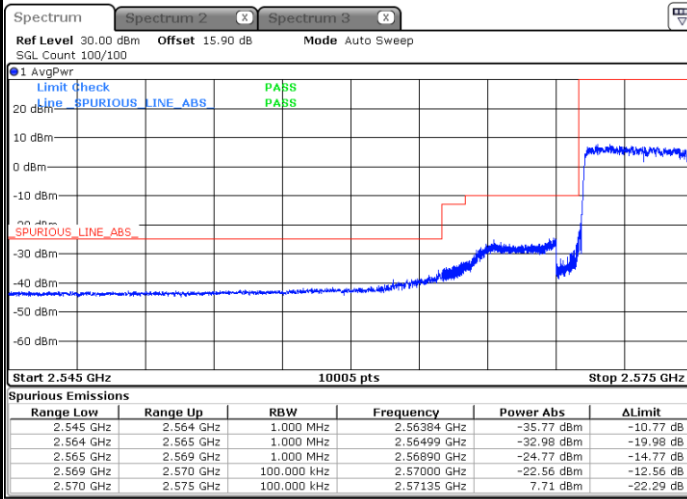
Date: 2 AUG 2017 15:24:23

Highest Band Edge / 1 RB



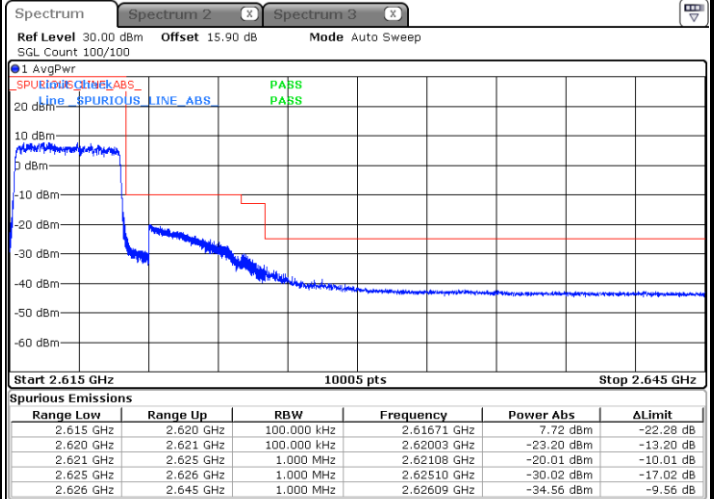
Date: 2 AUG 2017 15:31:20

Lowest Band Edge / Full RB



Date: 2 AUG 2017 15:26:42

Highest Band Edge / Full RB



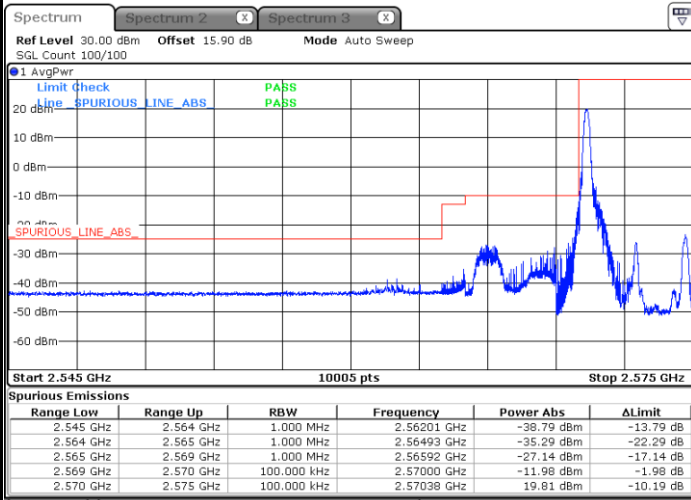
Date: 2 AUG 2017 15:29:01





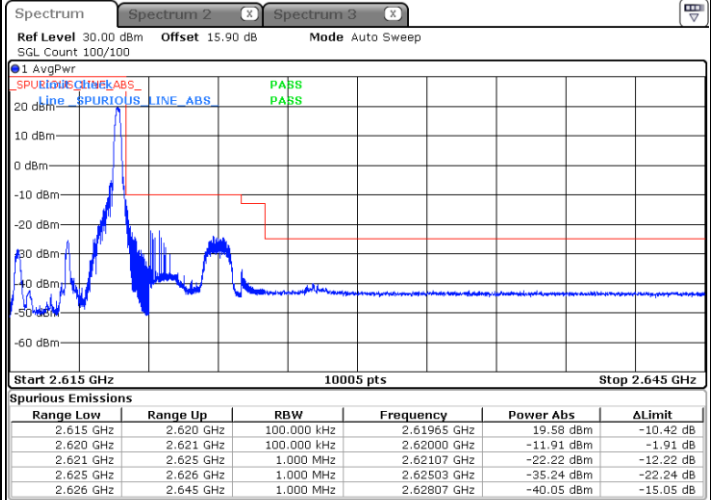
LTE Band 38 / 5MHz / 16QAM

Lowest Band Edge / 1RB



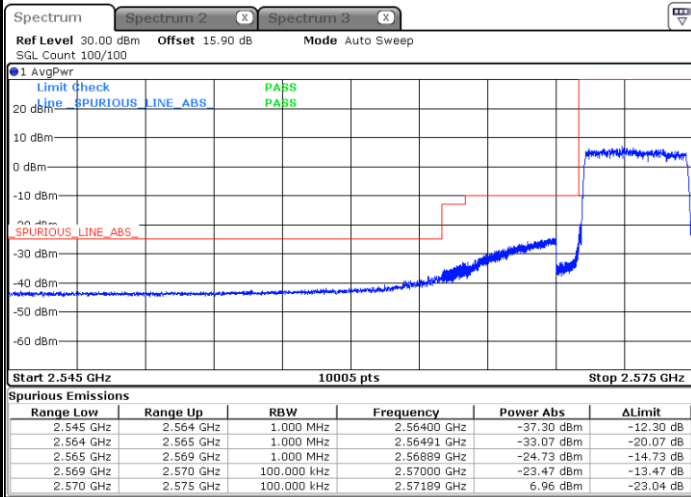
Date: 2 AUG 2017 15:25:33

Highest Band Edge / 1 RB



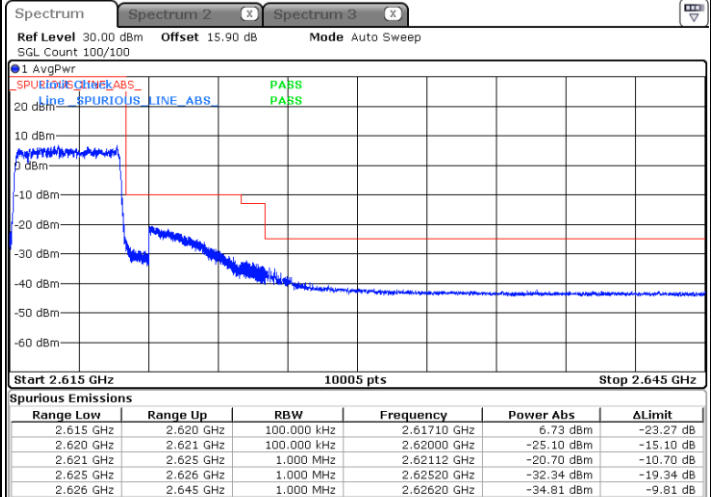
Date: 2 AUG 2017 15:32:29

Lowest Band Edge / Full RB



Date: 2 AUG 2017 15:27:52

Highest Band Edge / Full RB

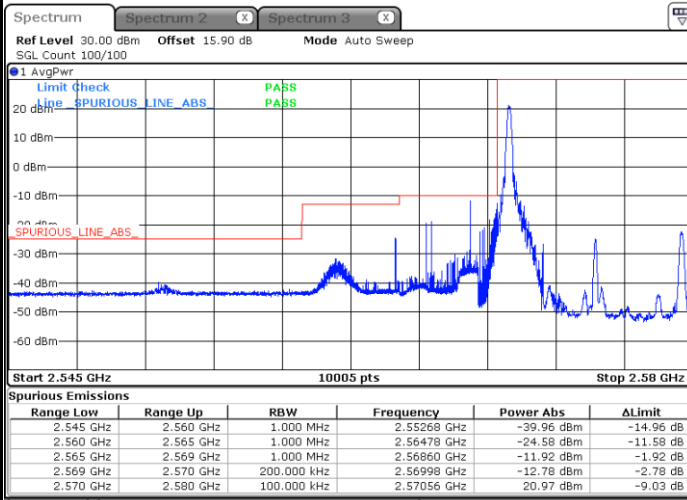


Date: 2 AUG 2017 15:30:11



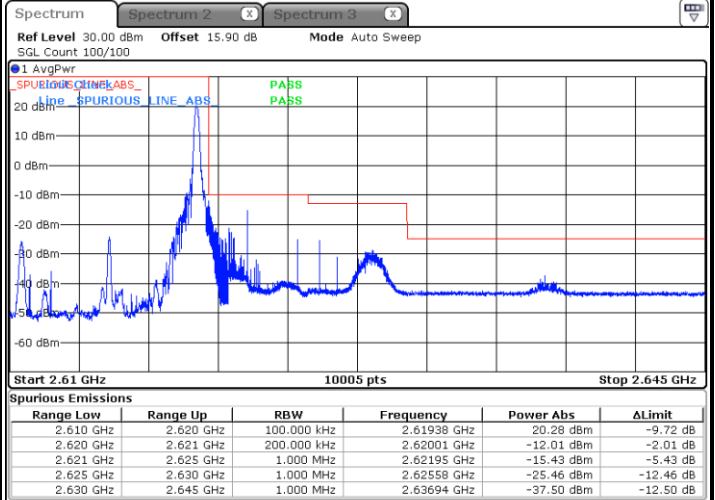
LTE Band 38 / 10MHz / QPSK

Lowest Band Edge / 1 RB



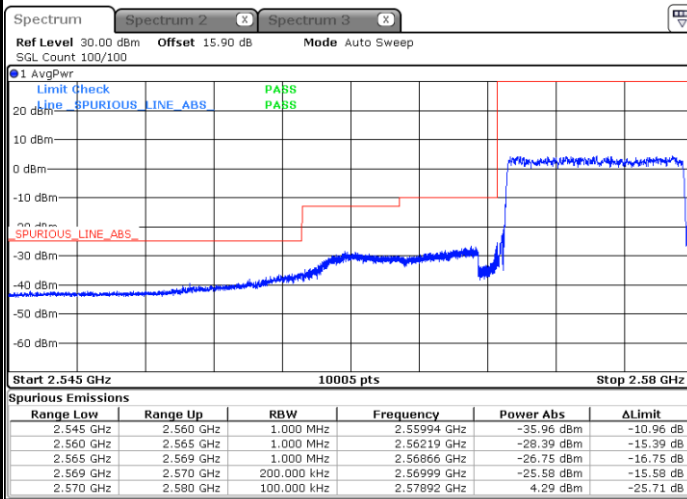
Date: 2 AUG 2017 15:33:39

Highest Band Edge / 1 RB



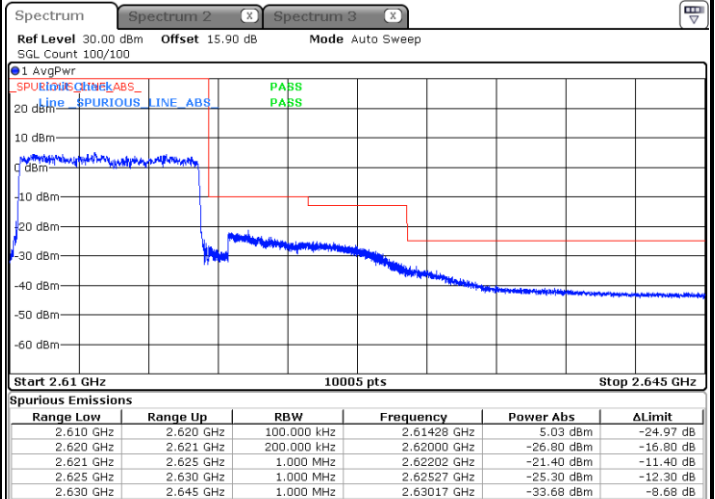
Date: 2 AUG 2017 15:40:35

Lowest Band Edge / Full RB



Date: 2 AUG 2017 15:35:58

Highest Band Edge / Full RB

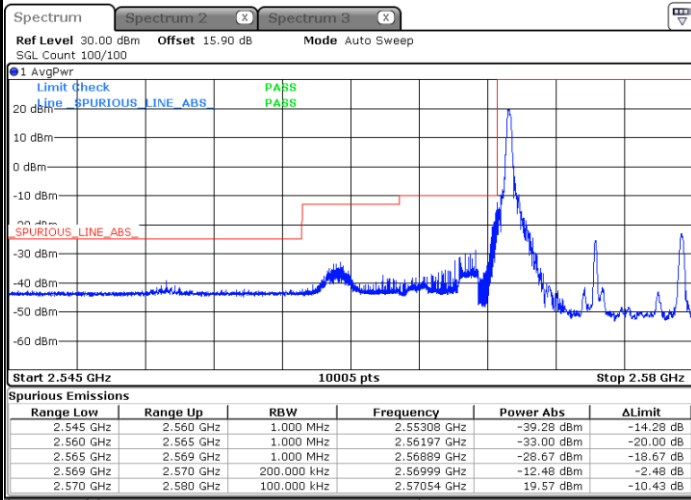


Date: 2 AUG 2017 15:38:16



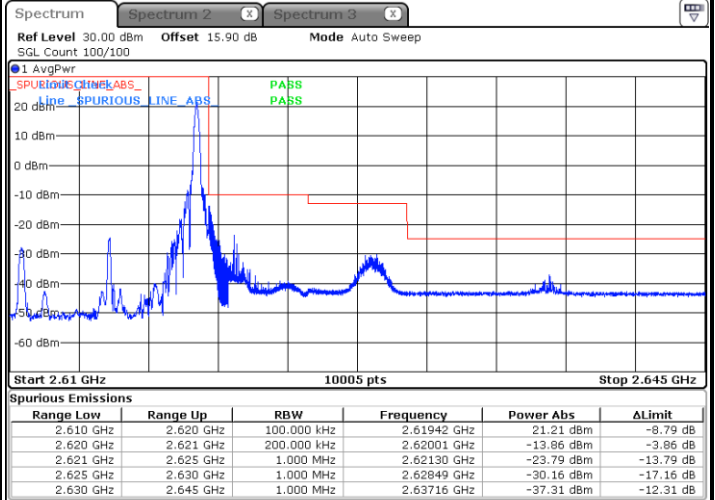
LTE Band 38 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



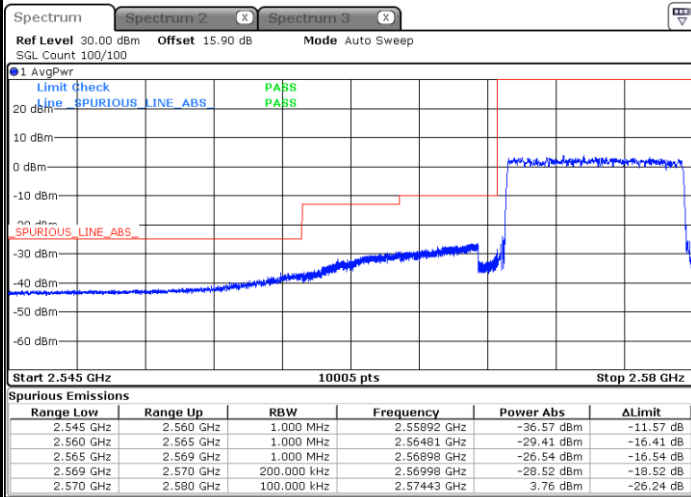
Date: 2 AUG 2017 15:34:48

Highest Band Edge / 1 RB



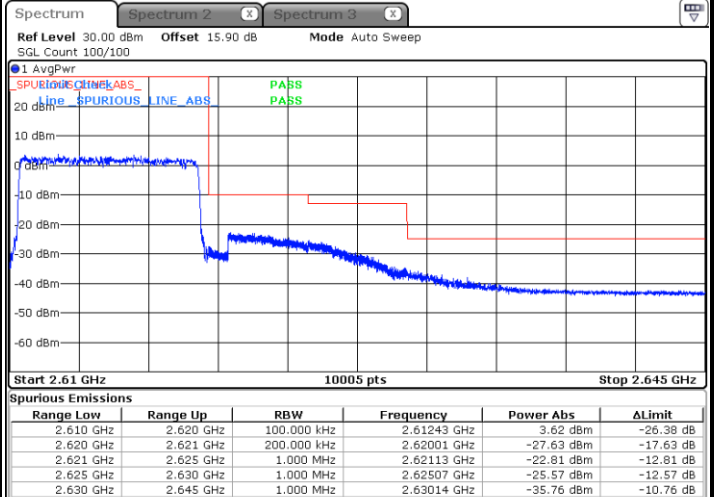
Date: 2 AUG 2017 15:41:45

Lowest Band Edge / Full RB



Date: 2 AUG 2017 15:37:07

Highest Band Edge / Full RB



Date: 2 AUG 2017 15:39:26