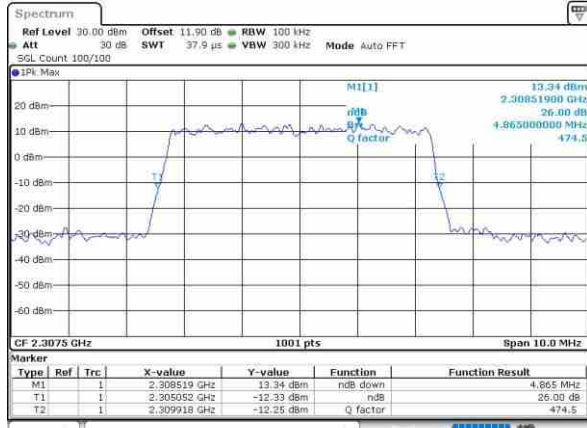




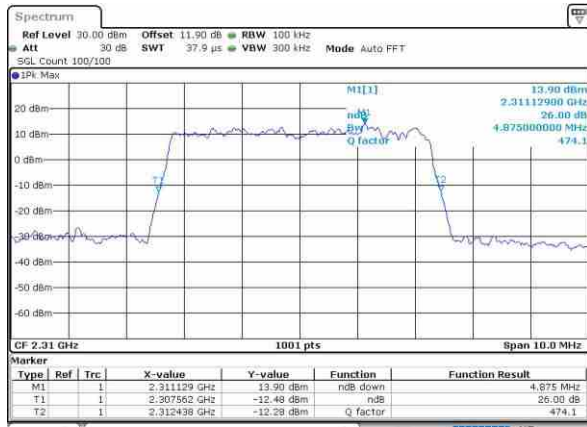
LTE Band 30

Lowest Channel / 5MHz / 64QAM



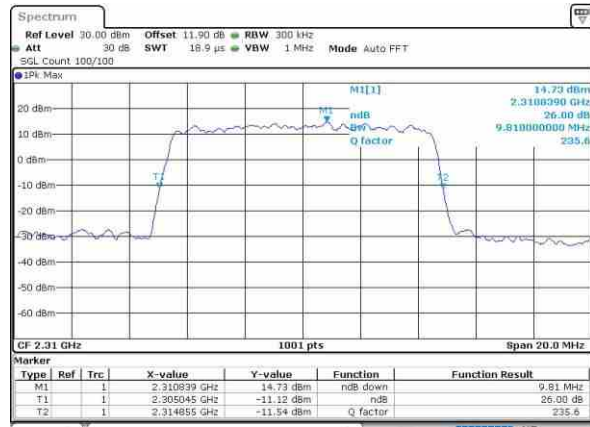
Date: 21, MAR, 2018 08:27:10

Middle Channel / 5MHz / 64QAM



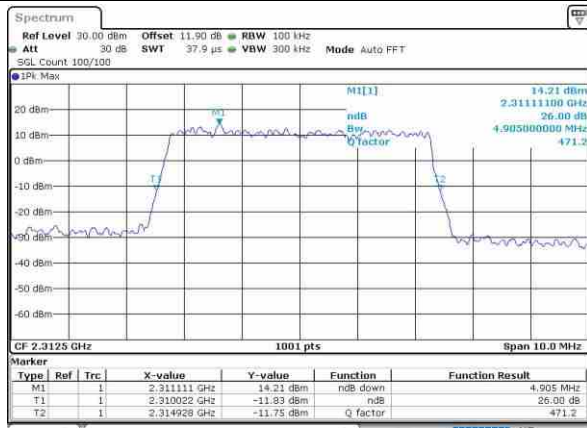
Date: 21, MAR, 2018 08:28:55

Middle Channel / 10MHz / 64QAM



Date: 21, MAR, 2018 08:32:55

Highest Channel / 5MHz / 64QAM



Date: 21, MAR, 2018 08:38:19

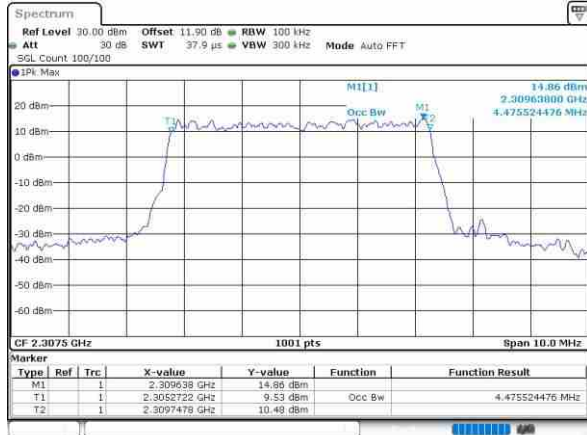
**Occupied Bandwidth**

Mode	LTE Band 30 : 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	-	-	-	-	4.48	4.49	-	-	-	-	-	-
Middle CH	-	-	-	-	4.51	4.50	9.05	9.03	-	-	-	-
Highest CH	-	-	-	-	4.51	4.50	-	-	-	-	-	-
Mode	LTE Band 26 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.48	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.50	-	9.05	-	-	-	-	-
Highest CH	-	-	-	-	4.49	-	-	-	-	-	-	-

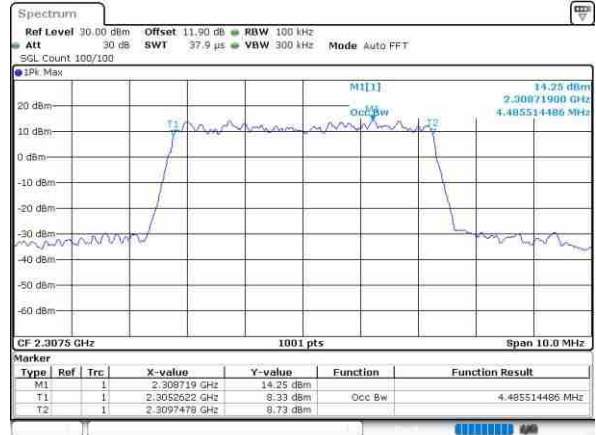


LTE Band 30

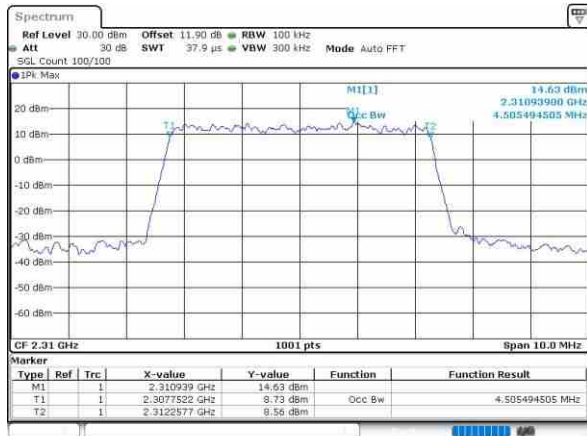
Lowest Channel / 5MHz / QPSK



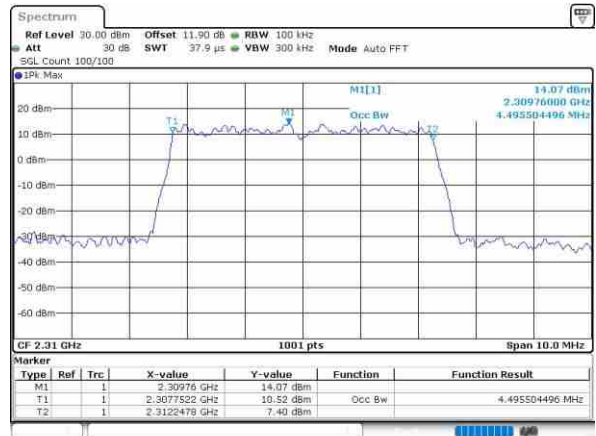
Lowest Channel / 5MHz / 16QAM



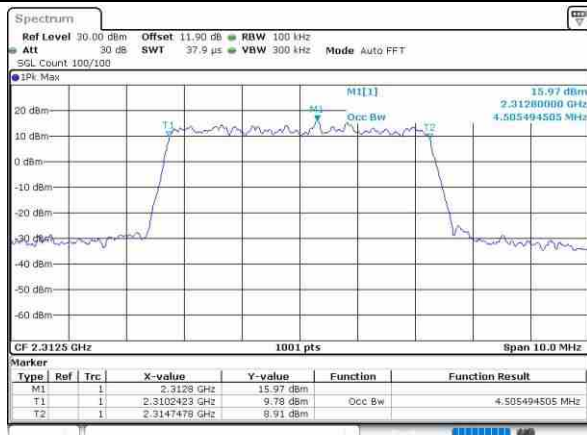
Middle Channel / 5MHz / QPSK



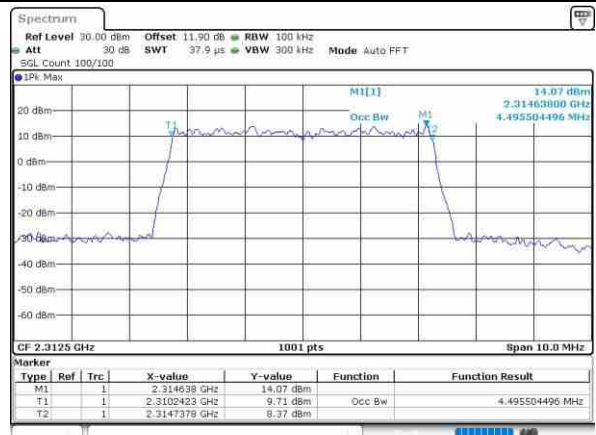
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



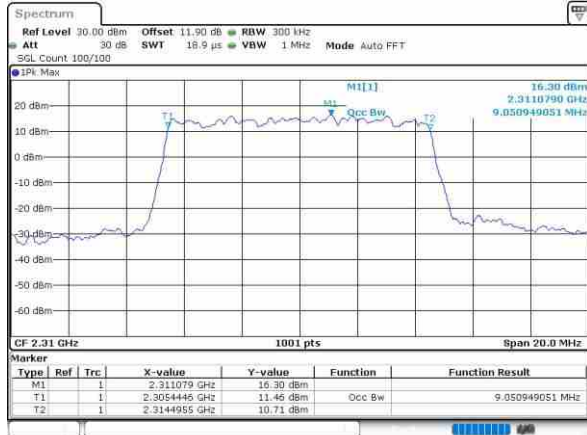
Highest Channel / 5MHz / 16QAM





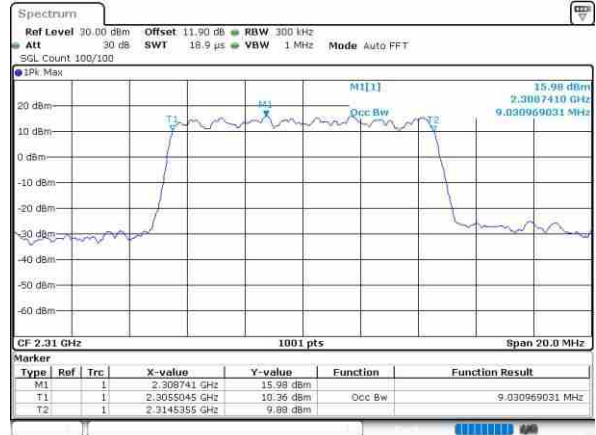
LTE Band 30

Middle Channel / 10MHz / QPSK



Date: 21, MAR, 2018 08:18:01

Middle Channel / 10MHz / 16QAM

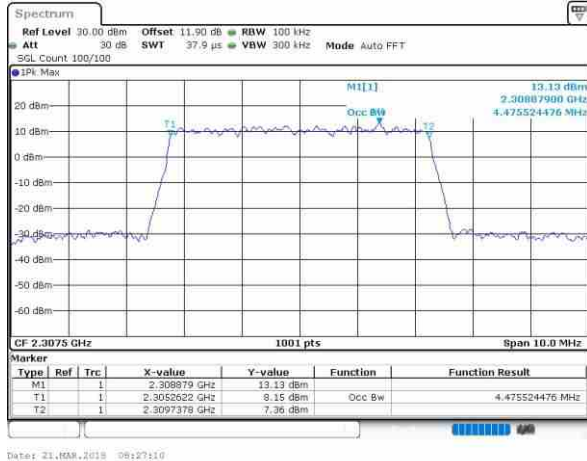


Date: 21, MAR, 2018 08:18:11

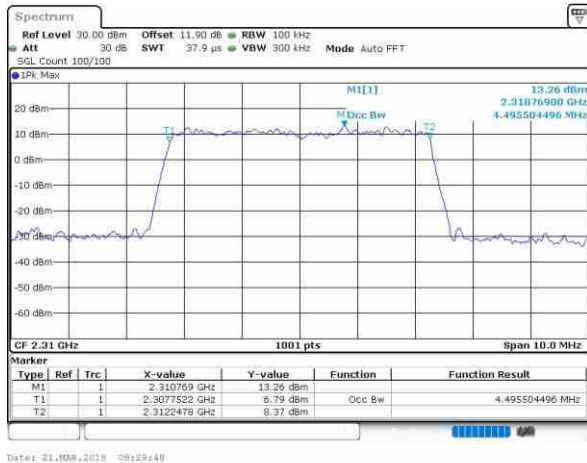


LTE Band 30

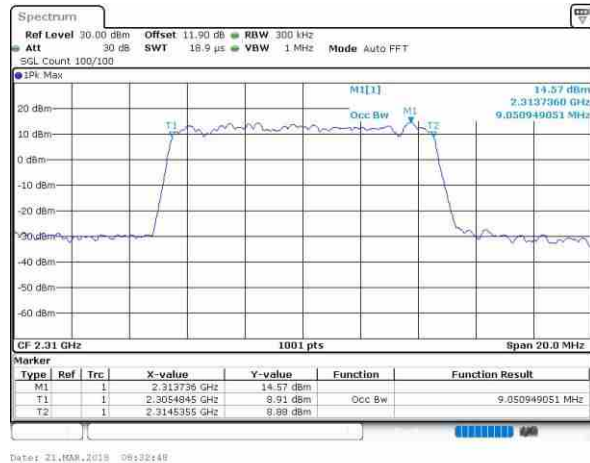
Lowest Channel / 5MHz / 64QAM



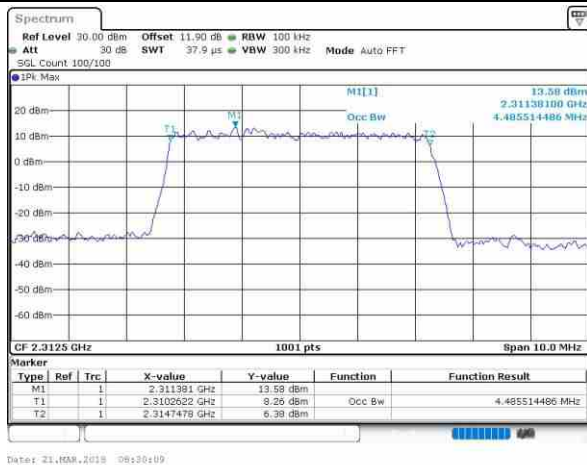
Middle Channel / 5MHz / 64QAM

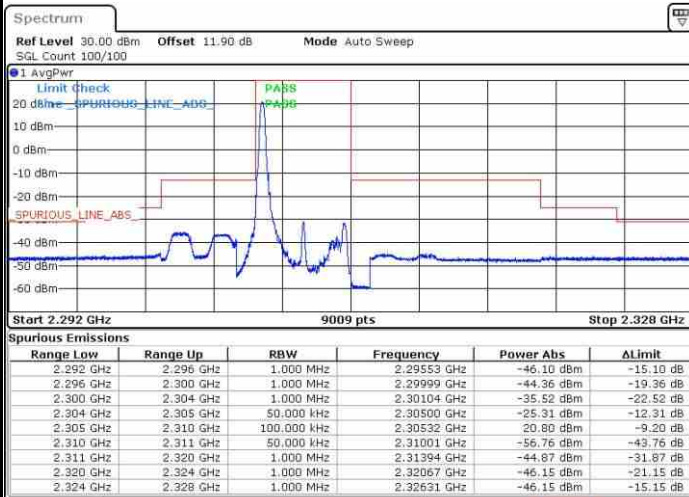
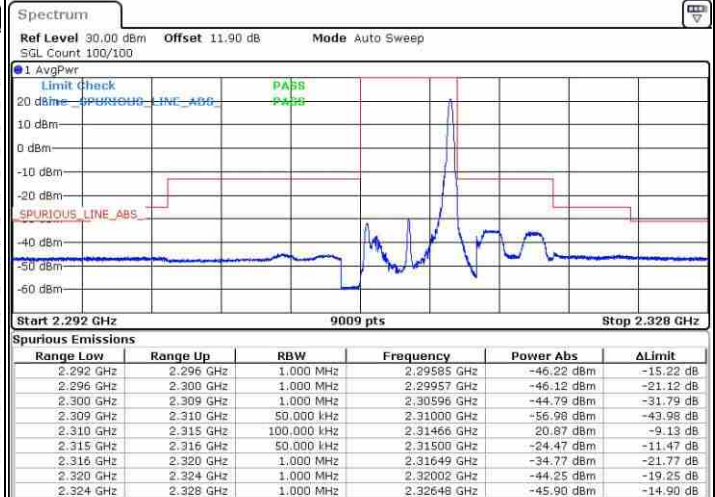
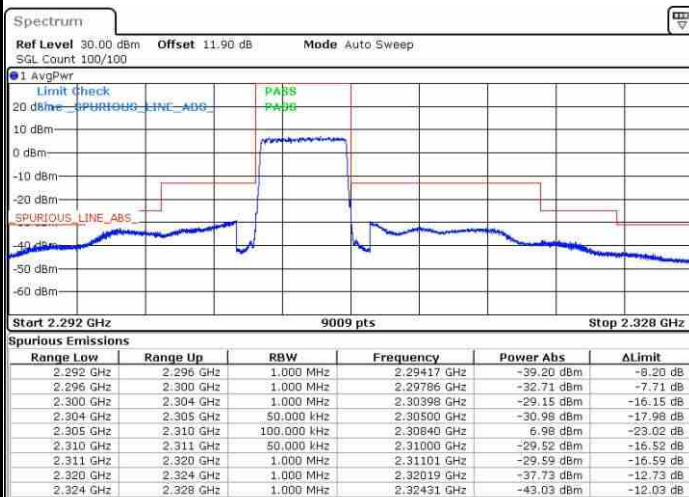
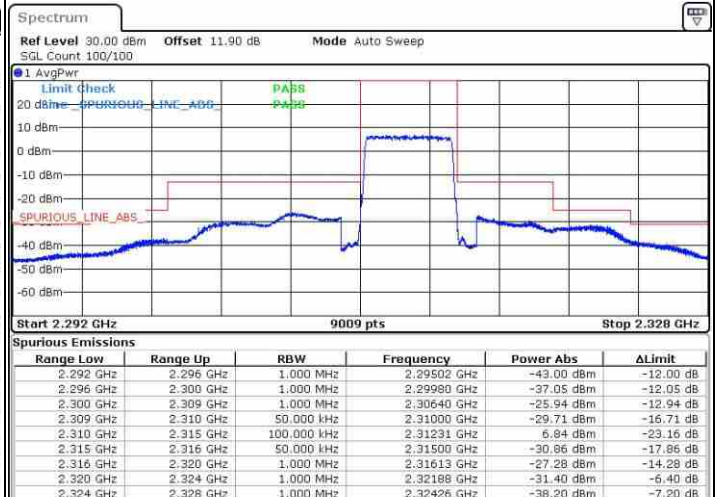


Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM

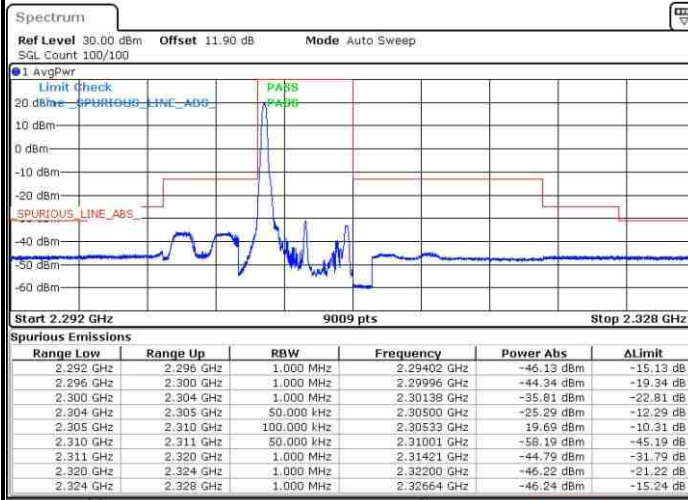


**Conducted Band Edge****LTE Band 30 / 5MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**



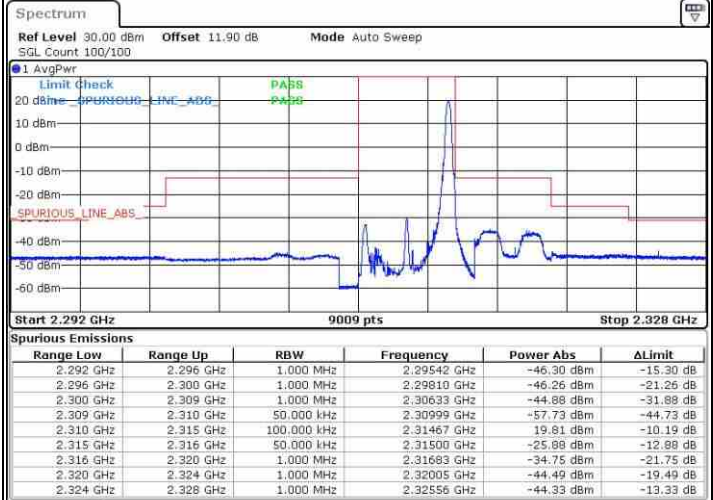
LTE Band 30 / 5MHz / 16QAM

Lowest Band Edge / 1RB



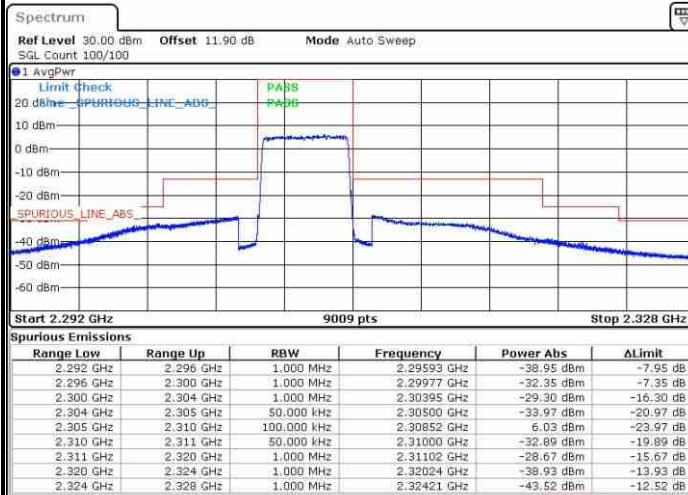
Date: 21.MAR.2018 08:09:33

Highest Band Edge / 1 RB



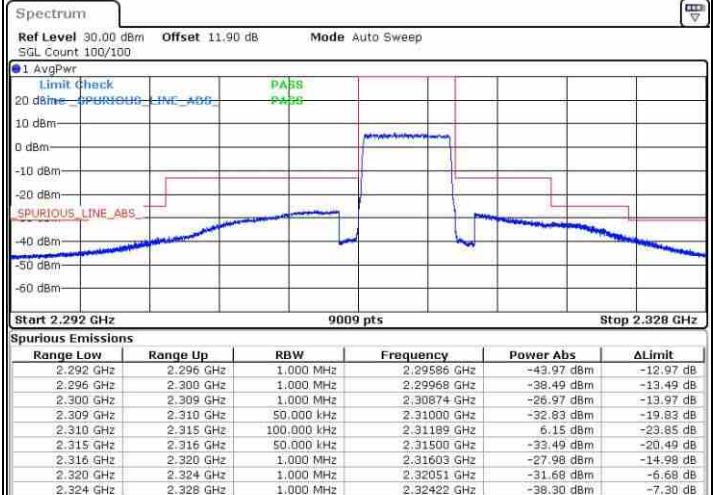
Date: 21.MAR.2018 08:15:32

Lowest Band Edge / Full RB



Date: 21.MAR.2018 08:11:51

Highest Band Edge / Full RB

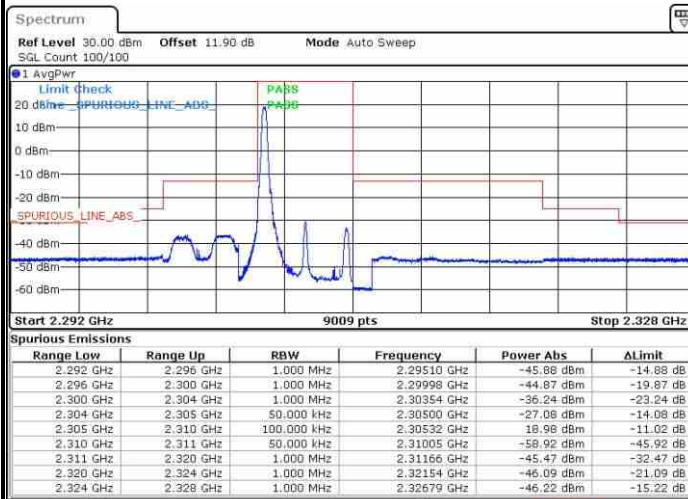


Date: 21.MAR.2018 08:17:50

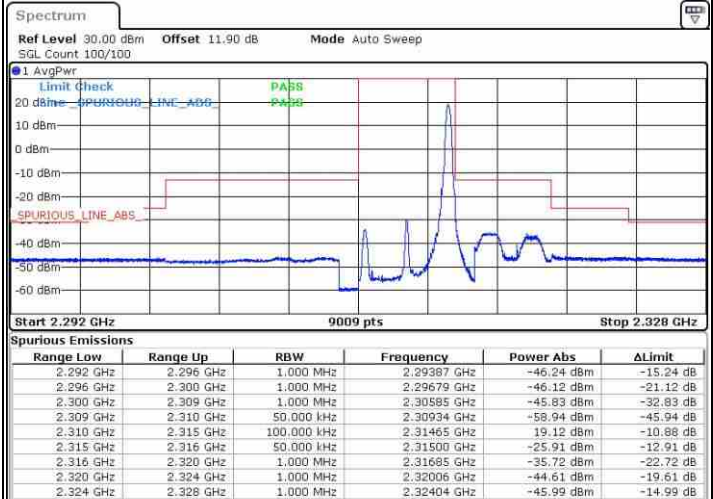


LTE Band 30 / 5MHz / 64QAM

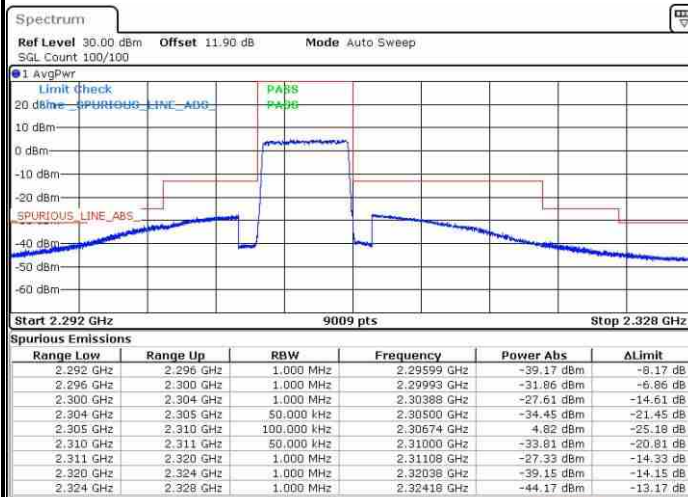
Lowest Band Edge / 1RB



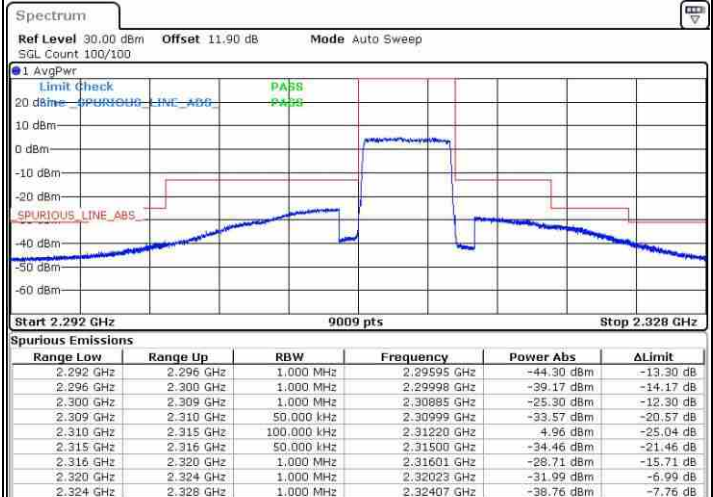
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



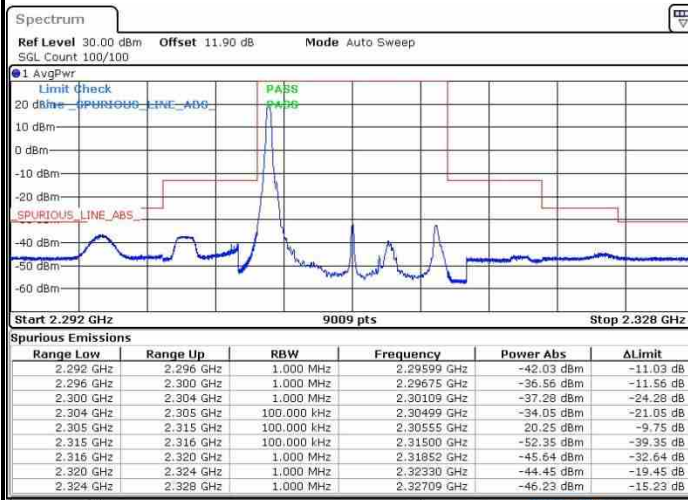
Highest Band Edge / Full RB





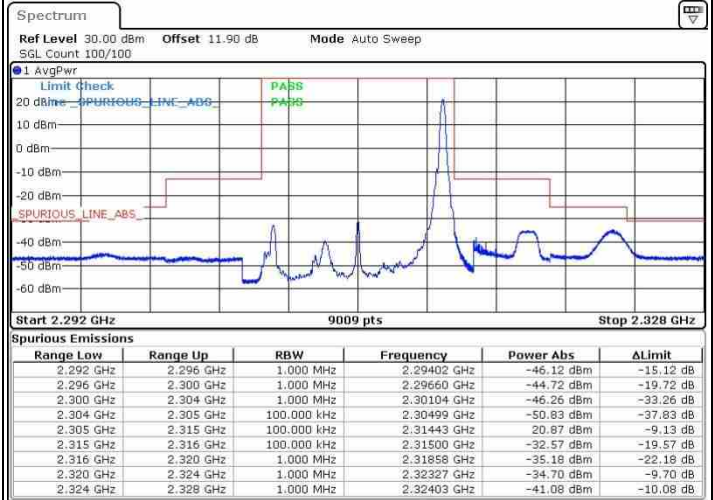
LTE Band 30 / 10MHz / QPSK

Lowest Band Edge / 1 RB



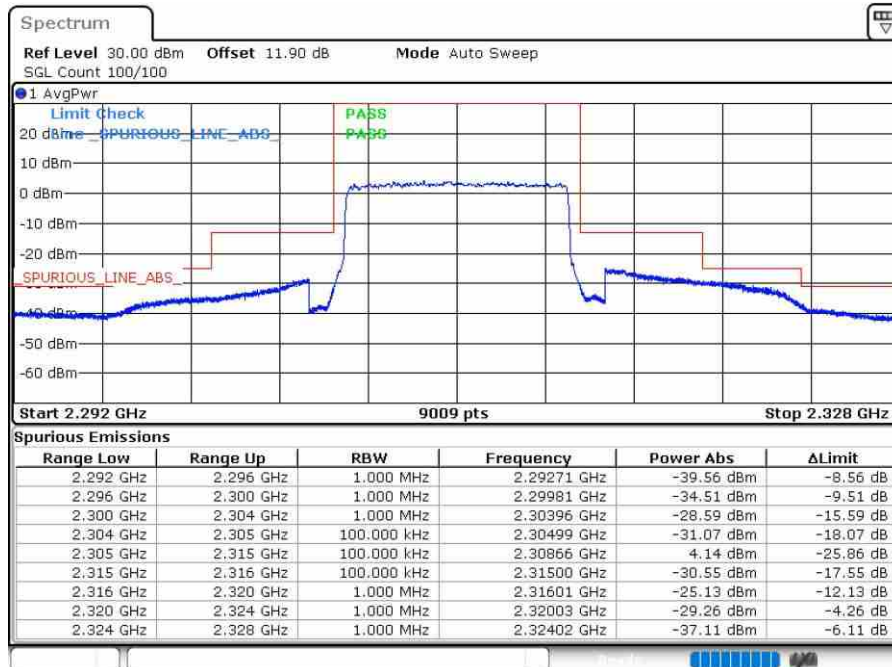
Date: 21.MAR.2018 08:19:41

Highest Band Edge / 1 RB



Date: 21.MAR.2018 08:21:59

Band Edge / Full RB

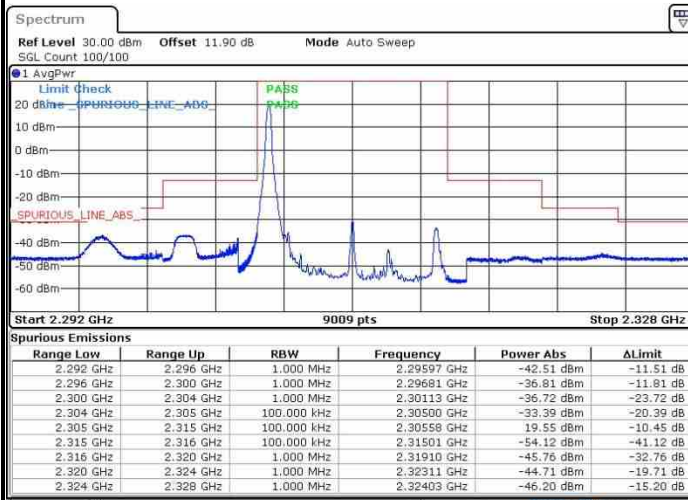


Date: 21.MAR.2018 08:24:17



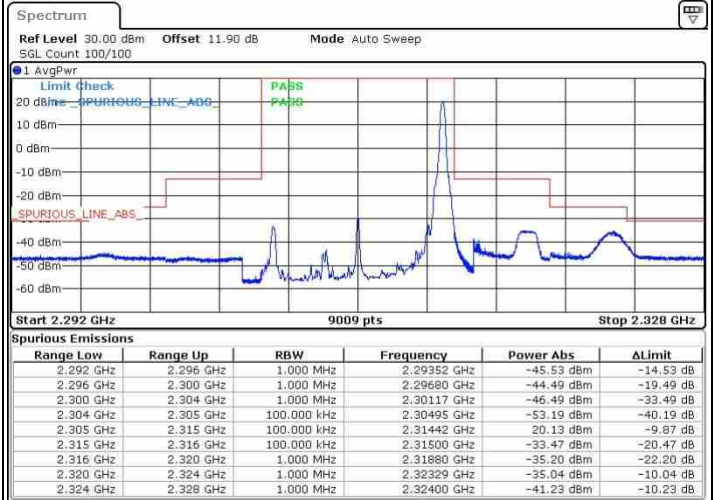
LTE Band 30 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



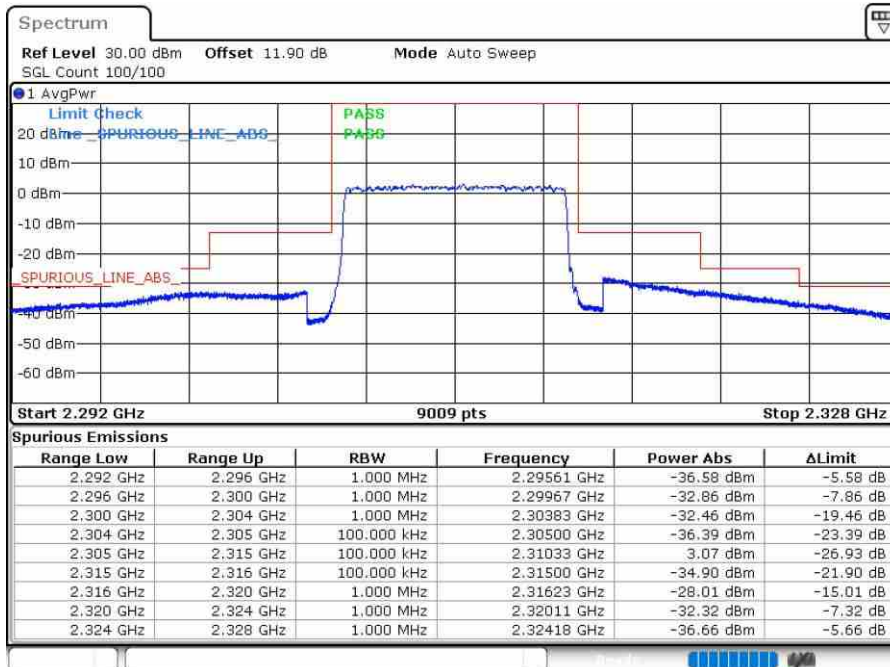
Date: 21.MAR.2018 08:20:50

Highest Band Edge / 1 RB



Date: 21.MAR.2018 08:23:08

Band Edge / Full RB

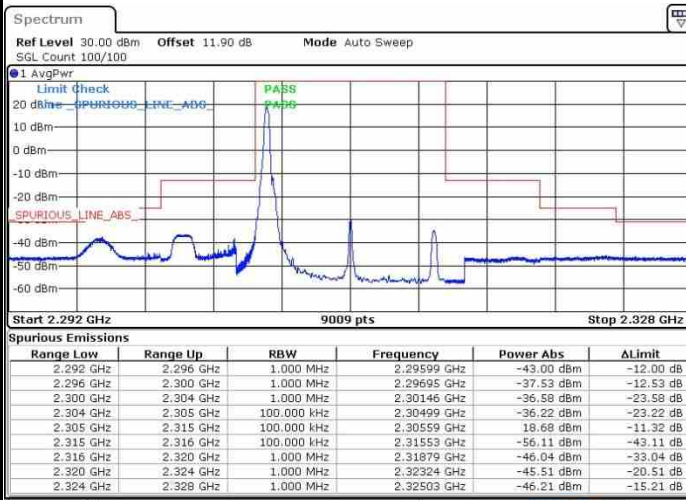


Date: 21.MAR.2018 08:25:26



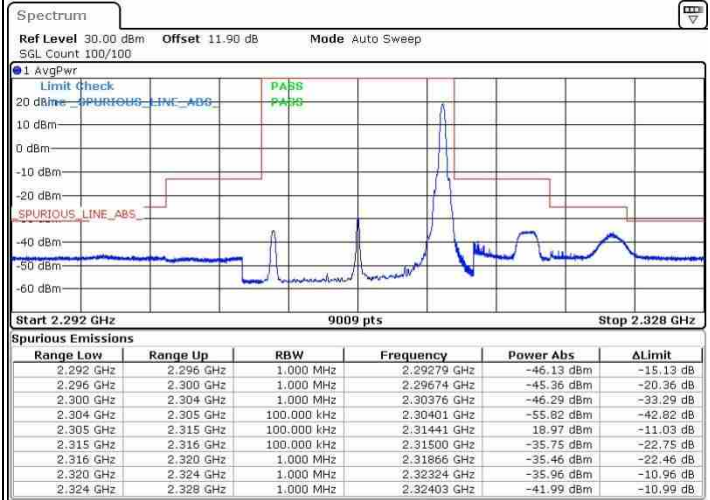
LTE Band 30 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



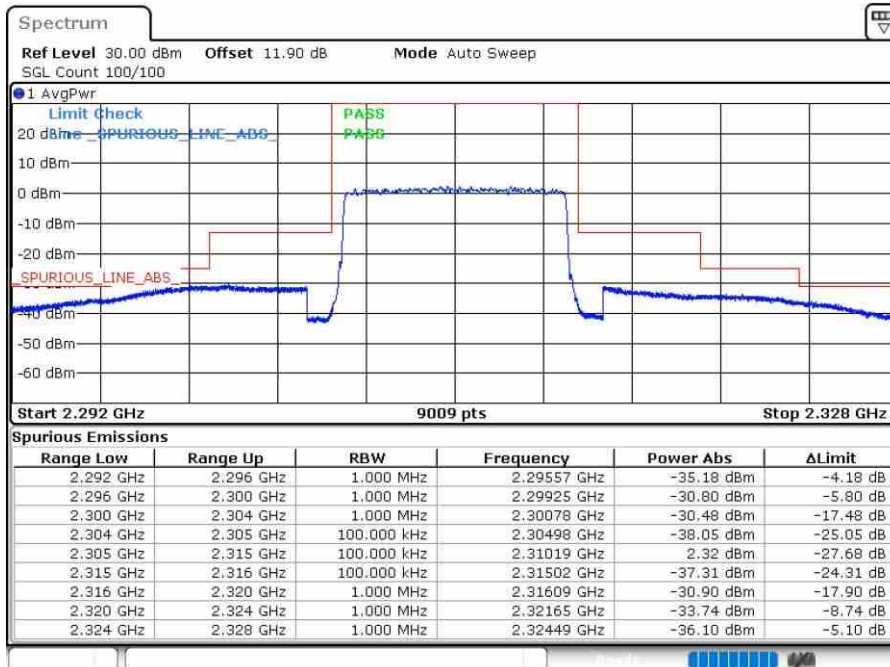
Date: 21.MAR.2018 08:34:07

Highest Band Edge / 1 RB

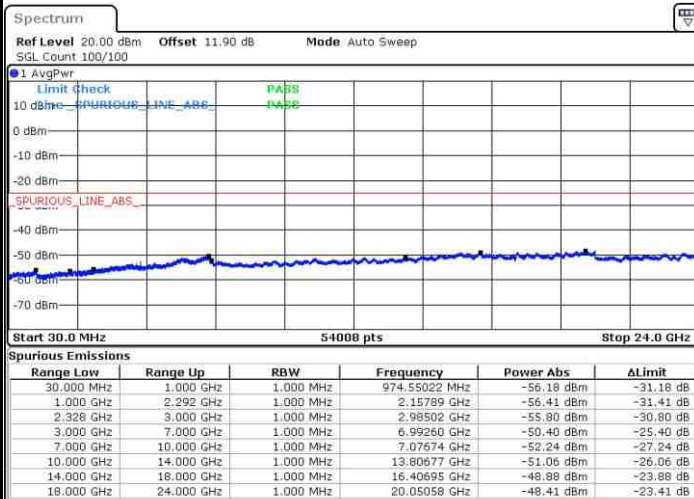


Date: 21.MAR.2018 08:35:16

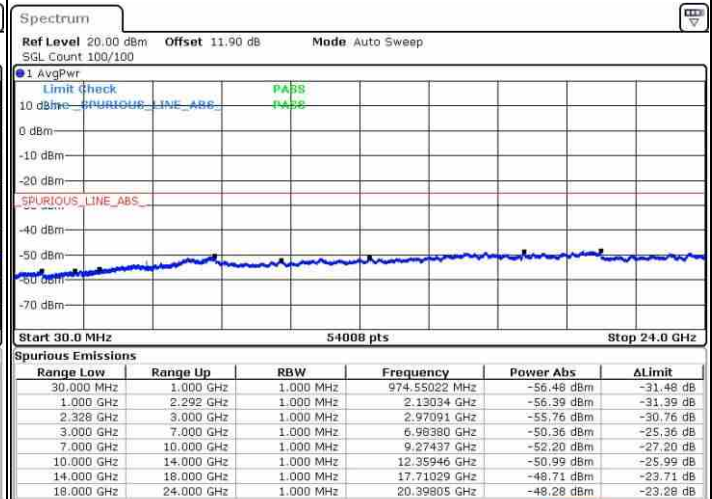
Band Edge / Full RB



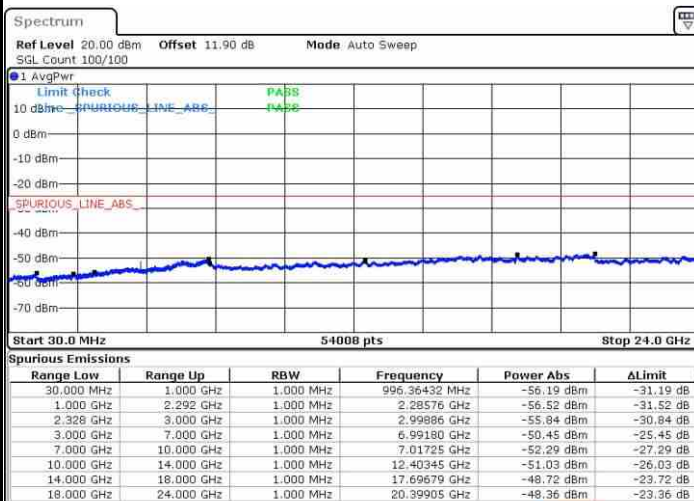
Date: 21.MAR.2018 08:36:25

**Conducted Spurious Emission****LTE Band 30 / 5MHz****Lowest Channel / QPSK**

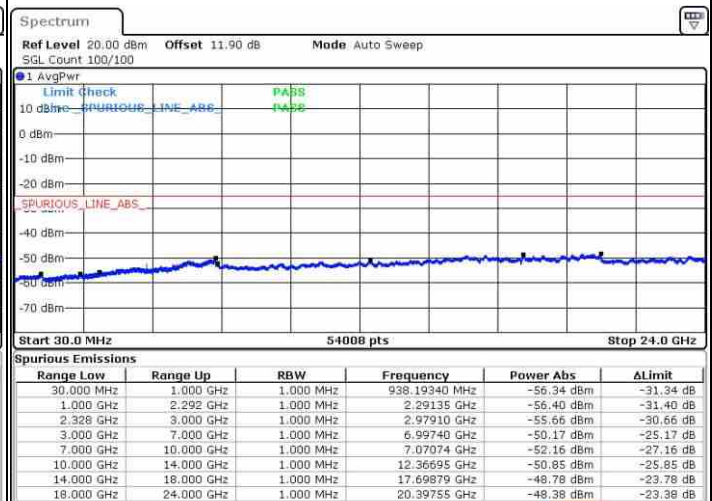
Date: 21.MAR.2018 08:41:30

Lowest Channel / 16QAM

Date: 21.MAR.2018 08:42:24

Middle Channel / QPSK

Date: 21.MAR.2018 08:43:18

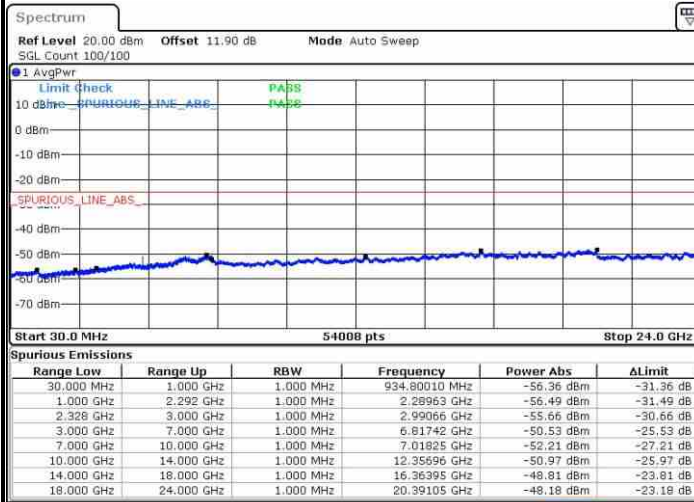
Middle Channel / 16QAM

Date: 21.MAR.2018 08:44:11



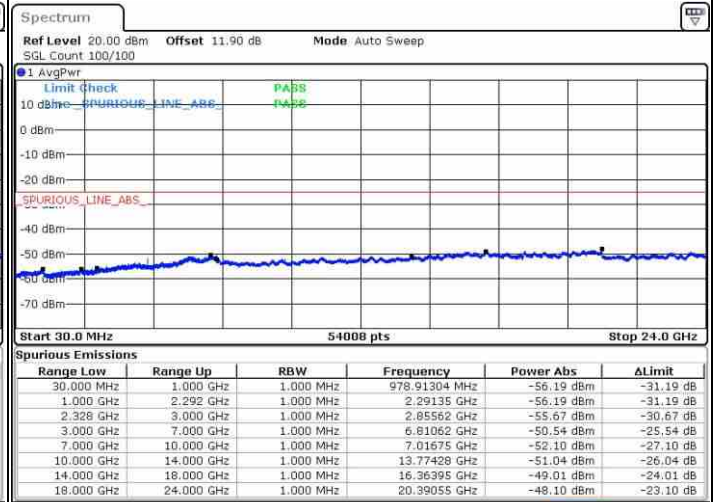
LTE Band 30 / 5MHz

Highest Channel / QPSK



Date: 21.MAR.2018 08:45:05

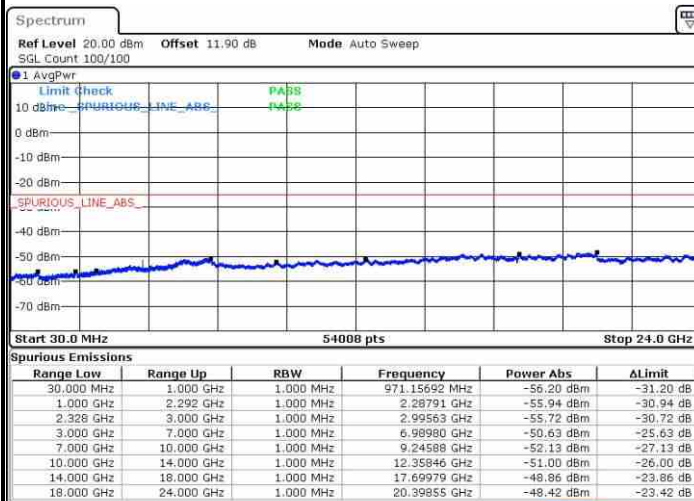
Highest Channel / 16QAM



Date: 21.MAR.2018 08:45:59

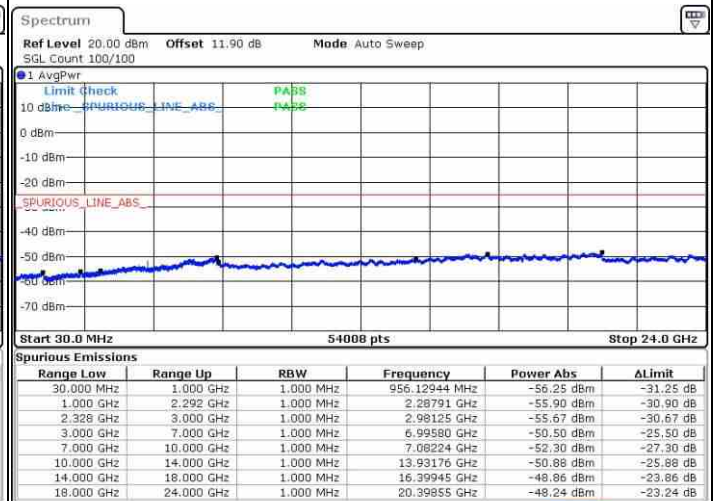
LTE Band 30 / 10MHz

Middle Channel / QPSK



Date: 21.MAR.2018 08:50:27

Middle Channel / 16QAM

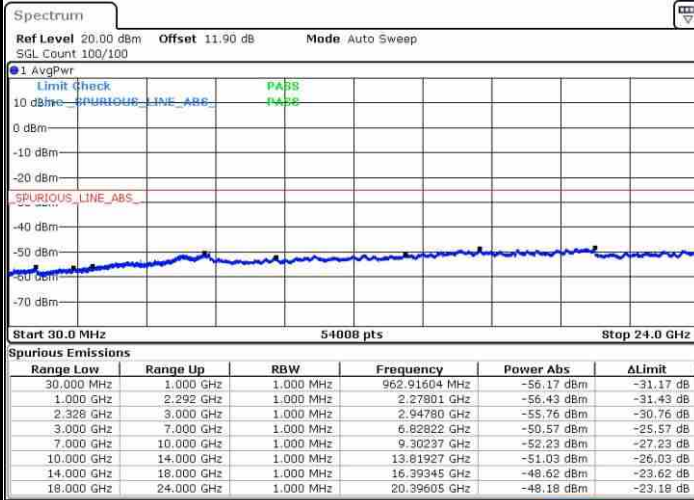


Date: 21.MAR.2018 08:51:20



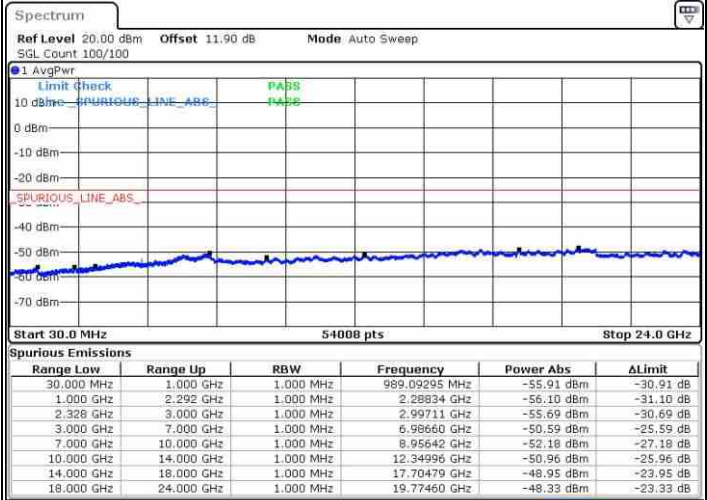
LTE Band 30 / 5MHz

Lowest Channel / 64QAM



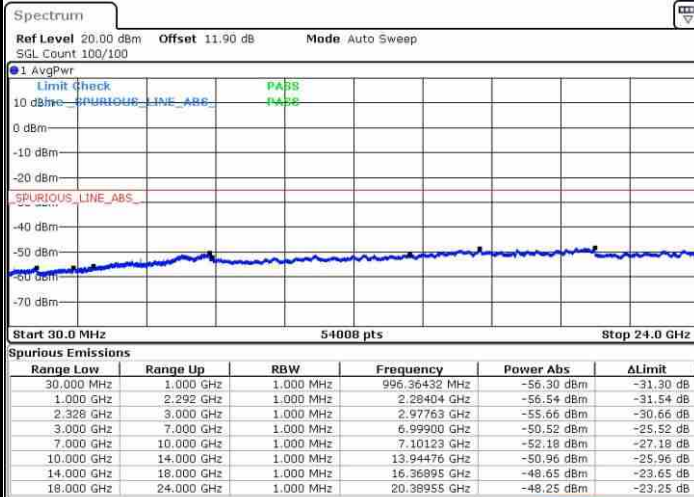
Date: 21.MAR.2018 08:46:52

Middle Channel / 64QAM



Date: 21.MAR.2018 08:47:46

Highest Channel / 64QAM

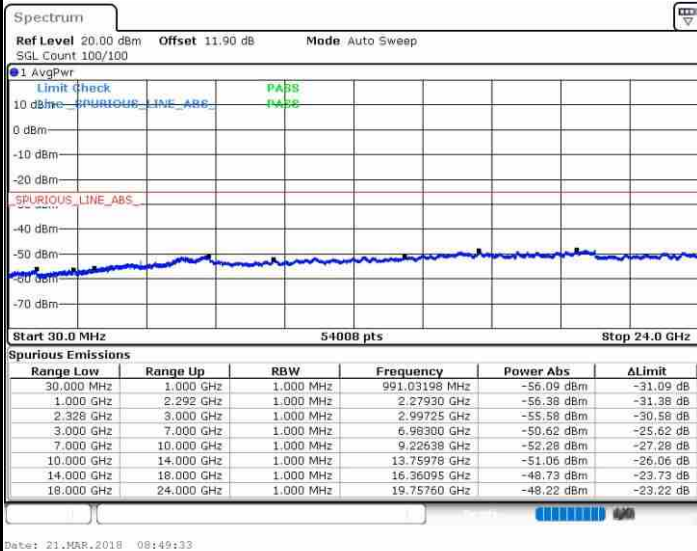


Date: 21.MAR.2018 08:48:39



LTE Band 30 / 10MHz

Middle Channel / 64QAM



Frequency Stability

Test Conditions		LTE Band 30 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0015	PASS
40	Normal Voltage	0.0009	
30	Normal Voltage	0.0054	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0039	
-10	Normal Voltage	0.0024	
-20	Normal Voltage	0.0015	
-30	Normal Voltage	0.0012	
20	Maximum Voltage	0.0041	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0007	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.3 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

LTE Band 41

Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.68	4.64	5.01	5.97	PASS
Middle CH	3.62	4.41	4.81	5.74	
Highest CH	3.71	4.43	4.93	5.62	
Mode	LTE Band 41 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.09	6.55	-	-	PASS
Middle CH	6.03	6.46	-	-	
Highest CH	5.91	6.38	-	-	

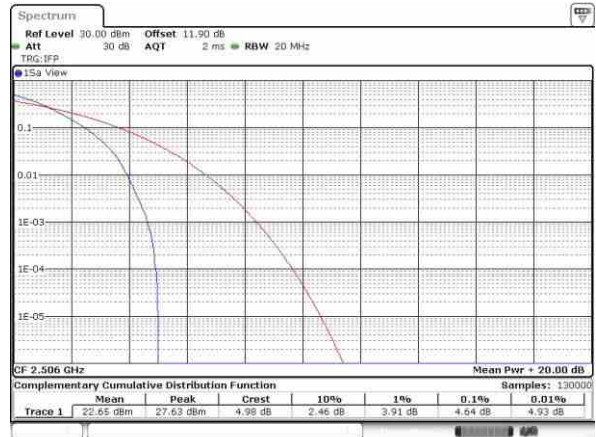


LTE Band 41 / 20MHz / QPSK

Lowest Channel / 1RB



Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



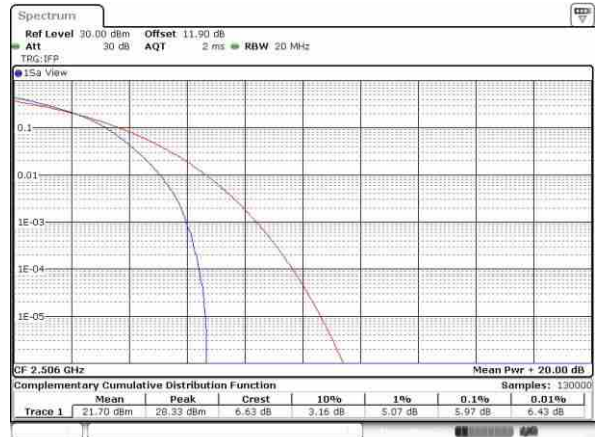


LTE Band 41 / 20MHz / 16QAM

Lowest Channel / 1RB



Lowest Channel / Full RB



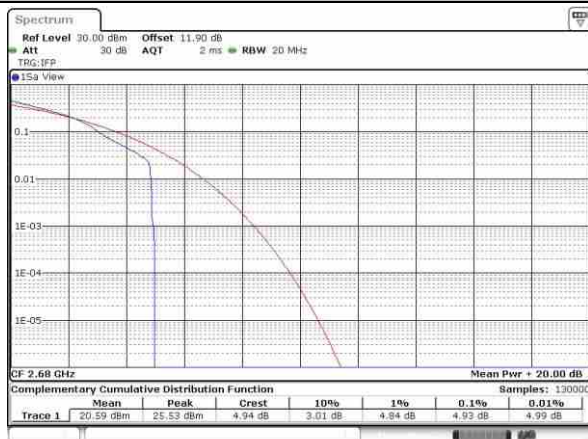
Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



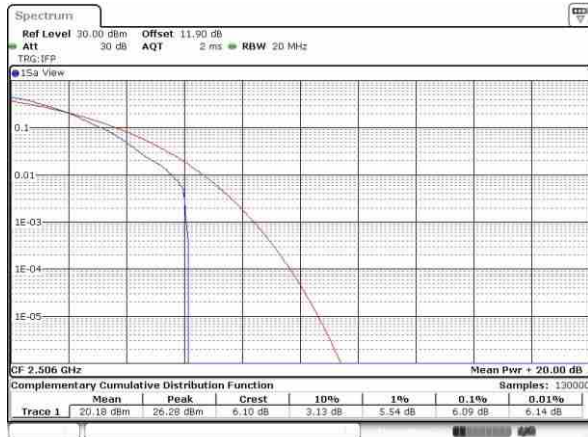
Highest Channel / Full RB



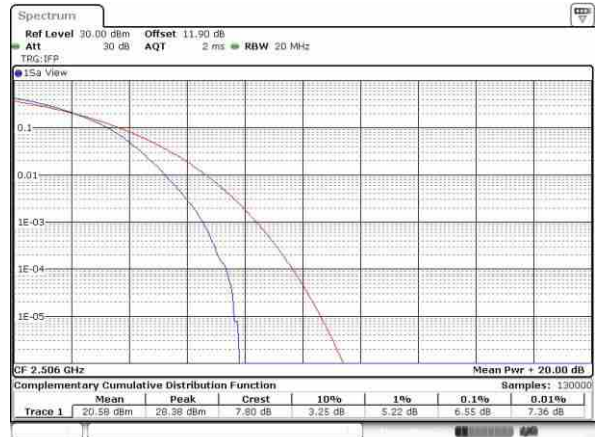


LTE Band 41 / 20MHz / 64QAM

Lowest Channel / 1RB



Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



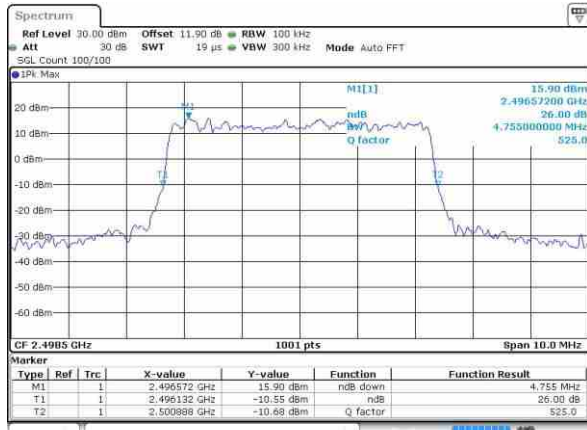
**26dB Bandwidth**

Mode	LTE Band 41 : 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	-	-	-	-	4.76	4.74	9.65	9.73	14.27	14.27	20.02	20.14
Middle CH	-	-	-	-	4.93	4.83	9.77	9.67	14.12	14.27	20.22	20.06
Highest CH	-	-	-	-	4.93	4.83	9.73	9.65	14.24	14.15	20.14	20.06
Mode	LTE Band 41 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.71	-	9.79	-	14.33	-	20.06	-
Middle CH	-	-	-	-	4.82	-	9.77	-	14.54	-	20.14	-
Highest CH	-	-	-	-	4.82	-	9.63	-	14.33	-	20.10	-



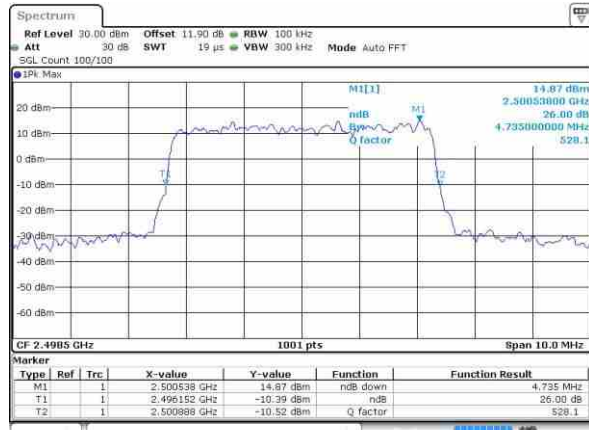
LTE Band 41

Lowest Channel / 5MHz / QPSK



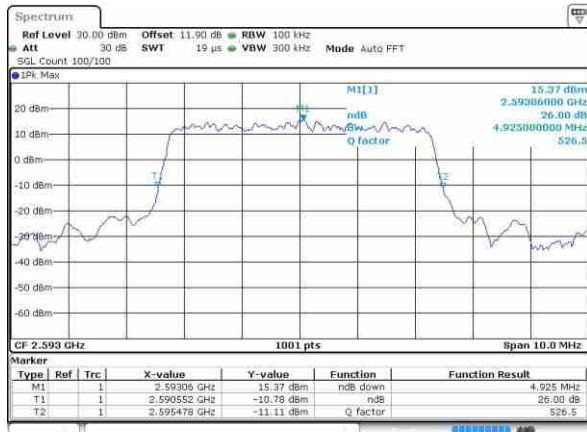
Date: 19 JUN 2018 21:30:38

Lowest Channel / 5MHz / 16QAM



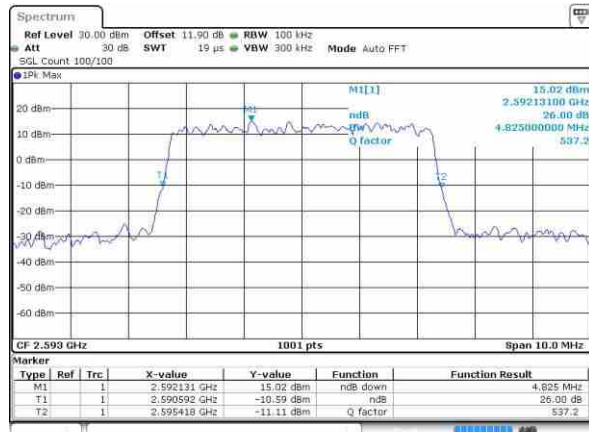
Date: 19 JUN 2018 21:30:49

Middle Channel / 5MHz / QPSK



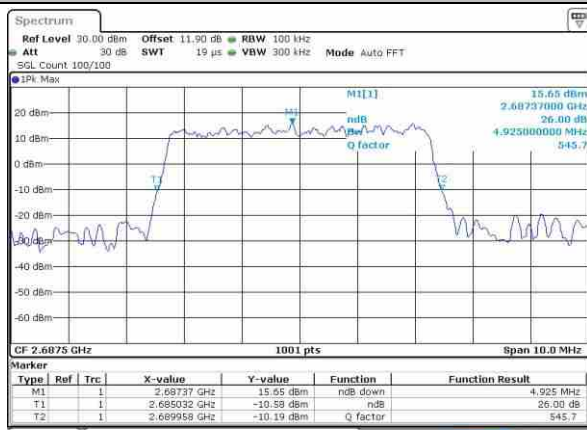
Date: 19 JUN 2018 21:31:20

Middle Channel / 5MHz / 16QAM



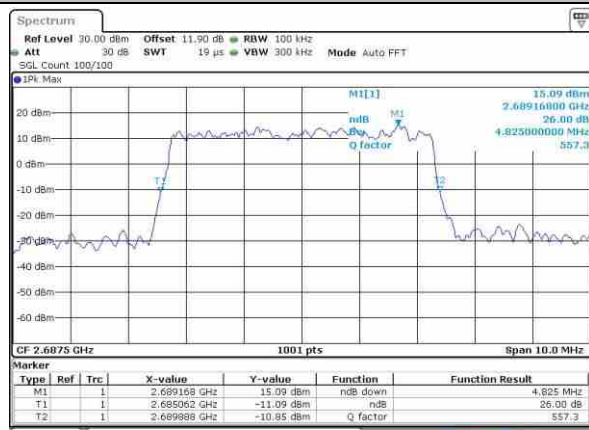
Date: 19 JUN 2018 21:31:31

Highest Channel / 5MHz / QPSK



Date: 19 JUN 2018 21:32:03

Highest Channel / 5MHz / 16QAM

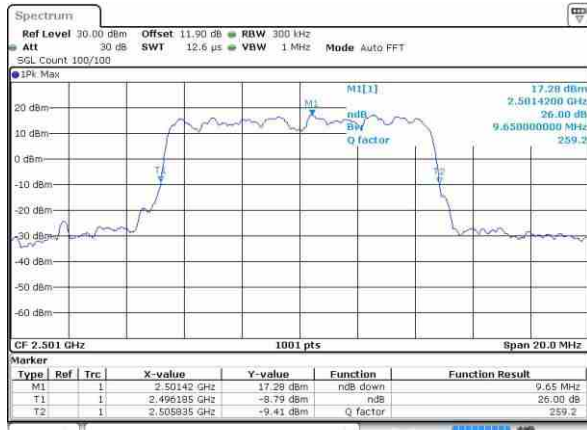


Date: 19 JUN 2018 21:32:13

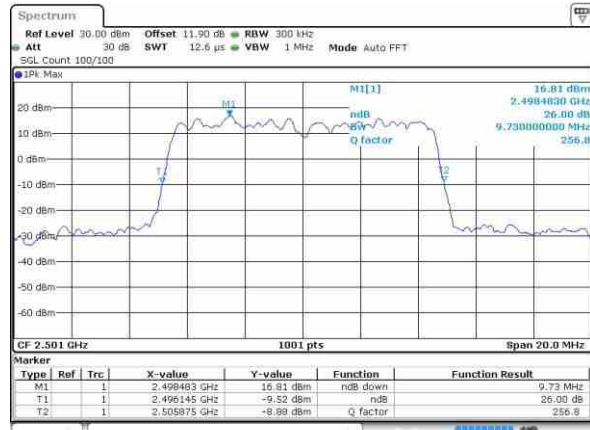


LTE Band 41

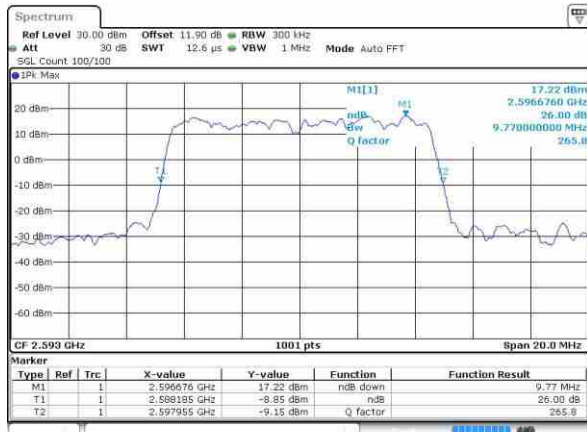
Lowest Channel / 10MHz / QPSK



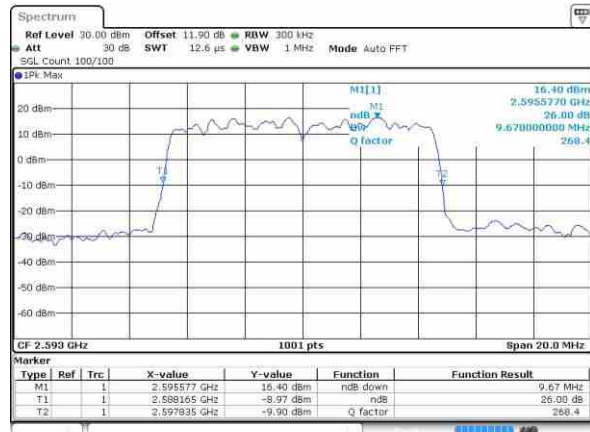
Lowest Channel / 10MHz / 16QAM



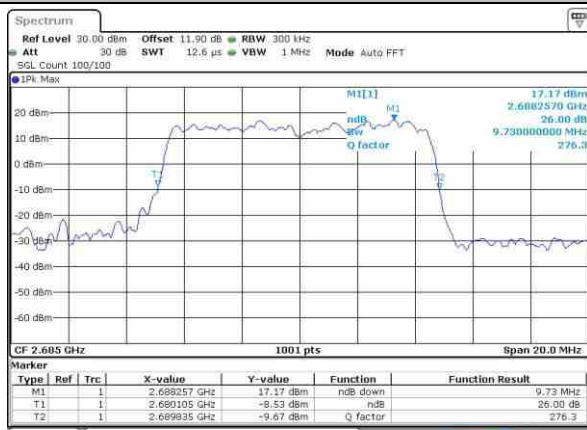
Middle Channel / 10MHz / QPSK



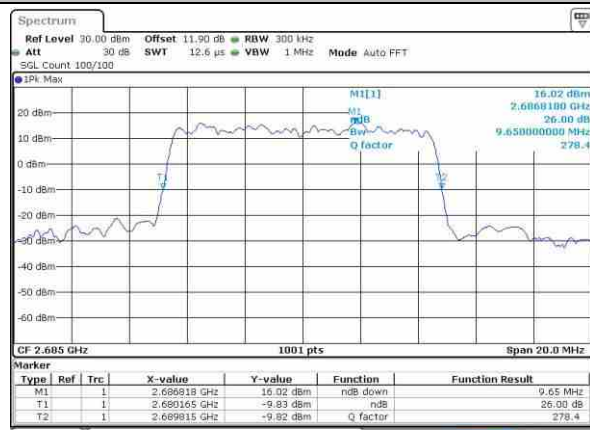
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



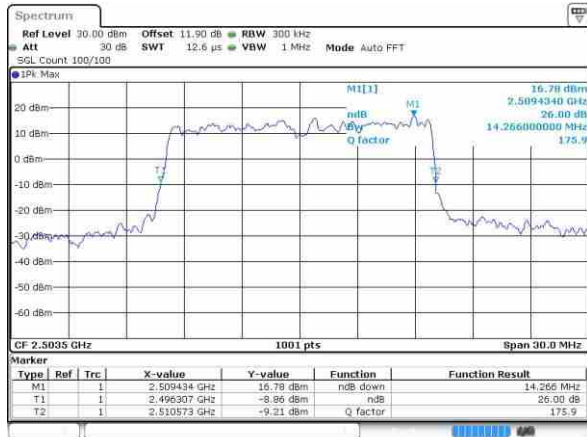
Highest Channel / 10MHz / 16QAM





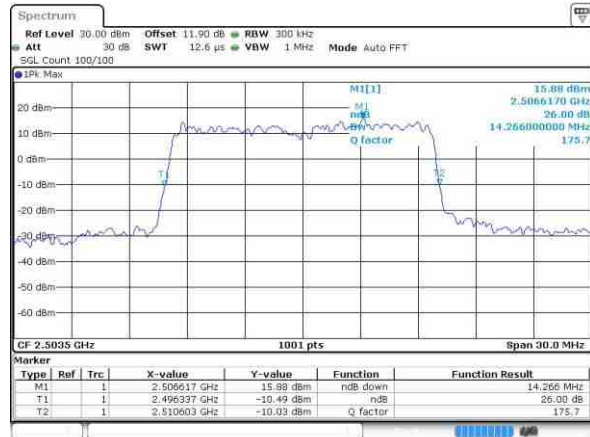
LTE Band 41

Lowest Channel / 15MHz / QPSK



Date: 19 JUN 2018 21:34:50

Lowest Channel / 15MHz / 16QAM



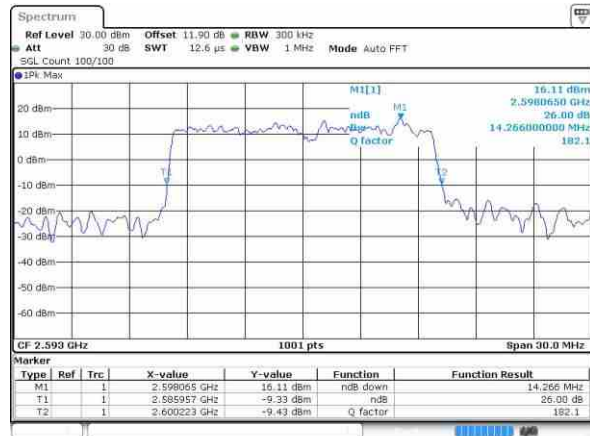
Date: 19 JUN 2018 21:35:01

Middle Channel / 15MHz / QPSK



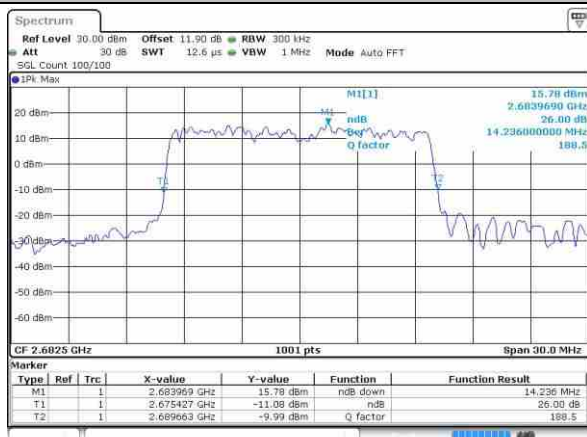
Date: 19 JUN 2018 21:35:32

Middle Channel / 15MHz / 16QAM



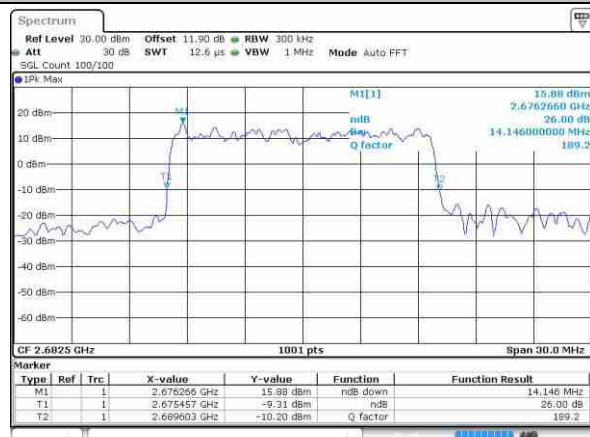
Date: 19 JUN 2018 21:35:43

Highest Channel / 15MHz / QPSK



Date: 19 JUN 2018 21:36:15

Highest Channel / 15MHz / 16QAM

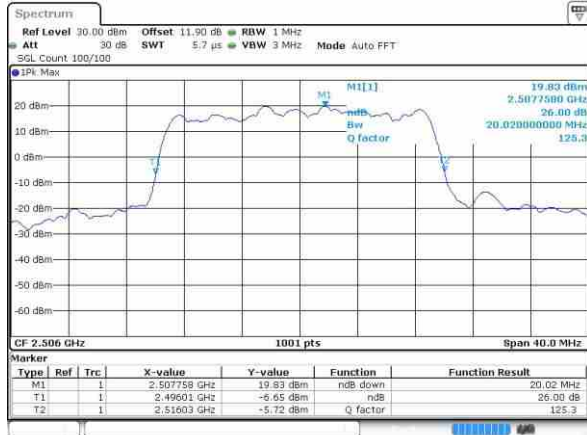


Date: 19 JUN 2018 21:36:25

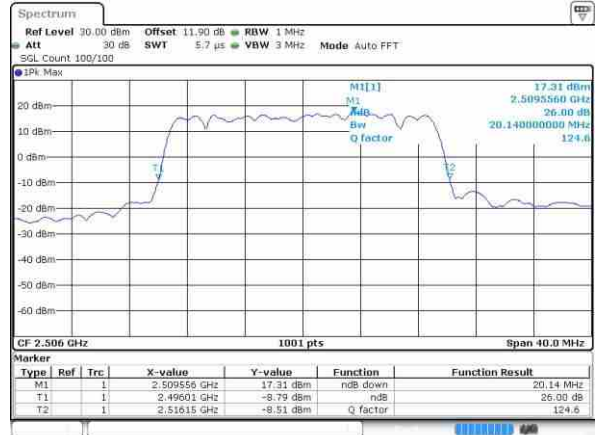


LTE Band 41

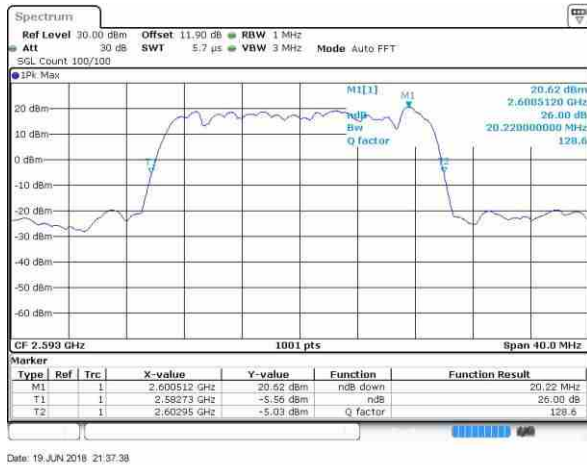
Lowest Channel / 20MHz / QPSK



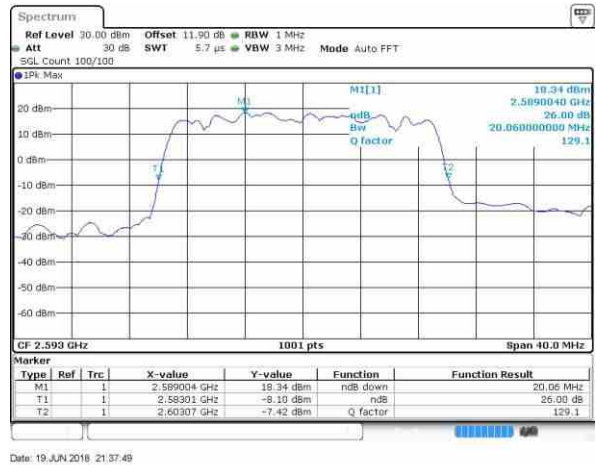
Lowest Channel / 20MHz / 16QAM



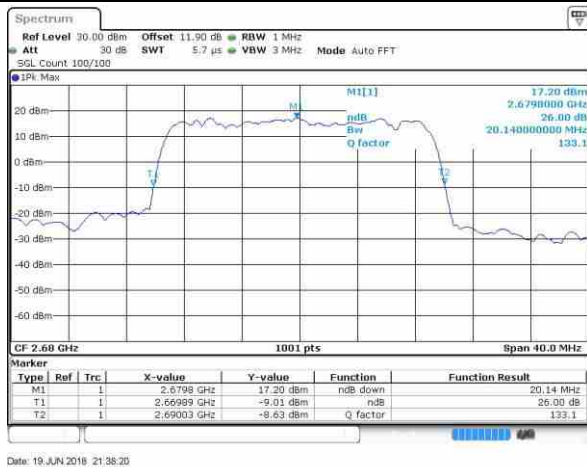
Middle Channel / 20MHz / QPSK



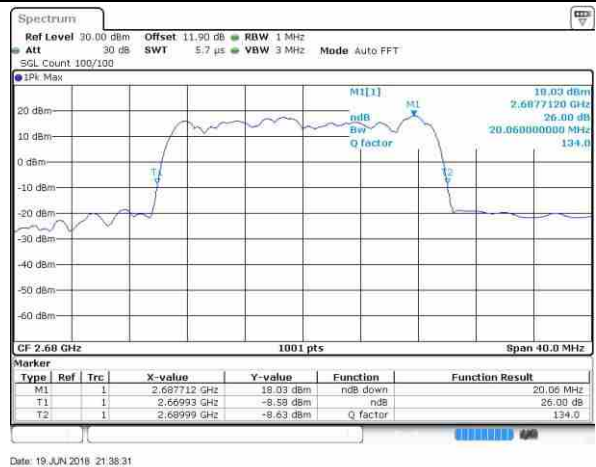
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



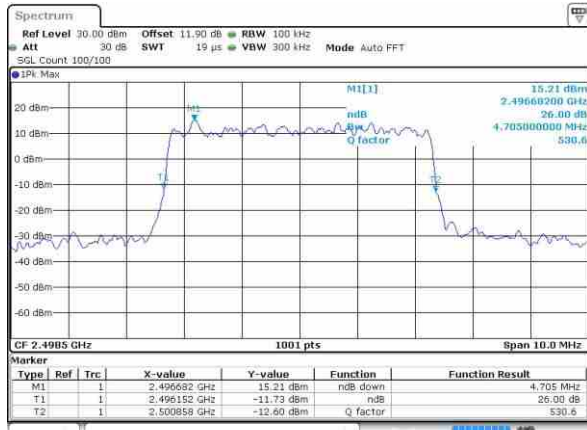
Highest Channel / 20MHz / 16QAM





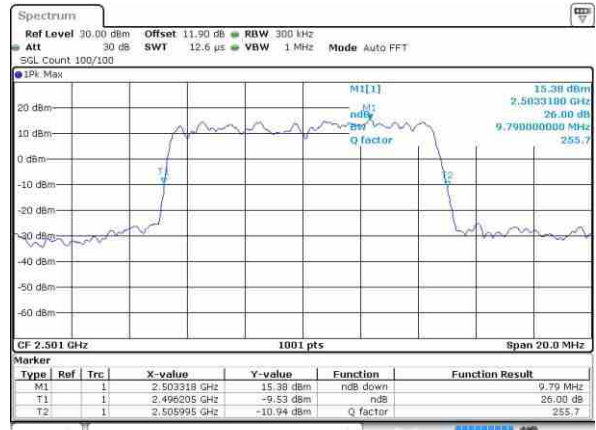
LTE Band 41

Lowest Channel / 5MHz / QPSK



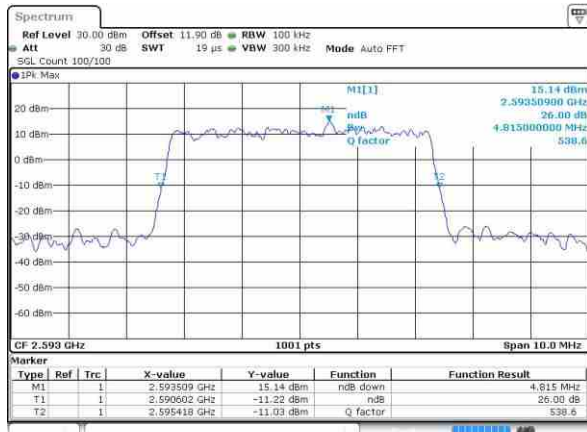
Date: 19 JUN 2018 21:38:52

Lowest Channel / 10MHz / 16QAM



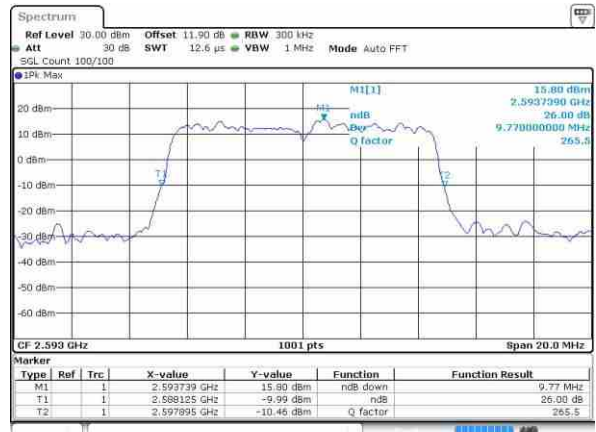
Date: 19 JUN 2018 21:39:55

Middle Channel / 5MHz / QPSK



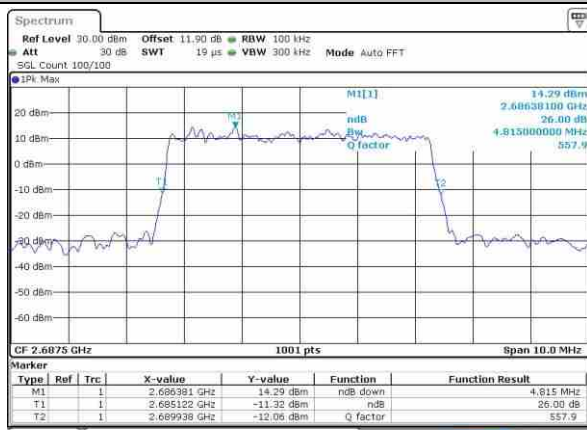
Date: 19 JUN 2018 21:39:13

Middle Channel / 10MHz / 16QAM



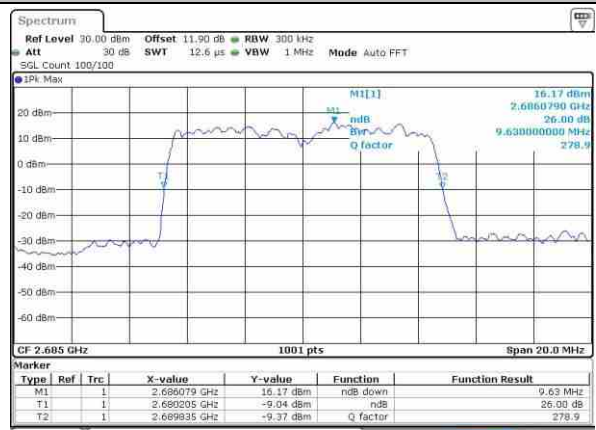
Date: 19 JUN 2018 21:40:16

Highest Channel / 5MHz / QPSK



Date: 19 JUN 2018 21:39:34

Highest Channel / 10MHz / 16QAM

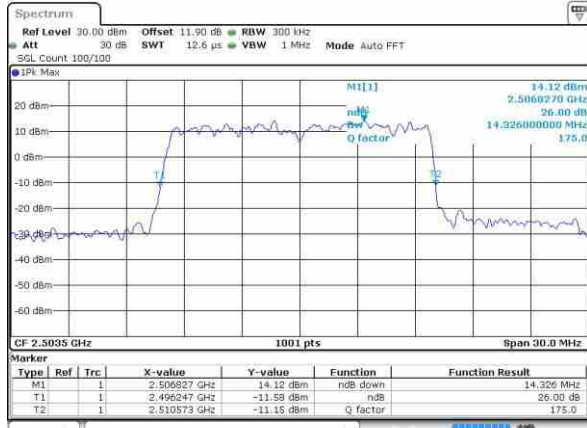


Date: 19 JUN 2018 21:40:37



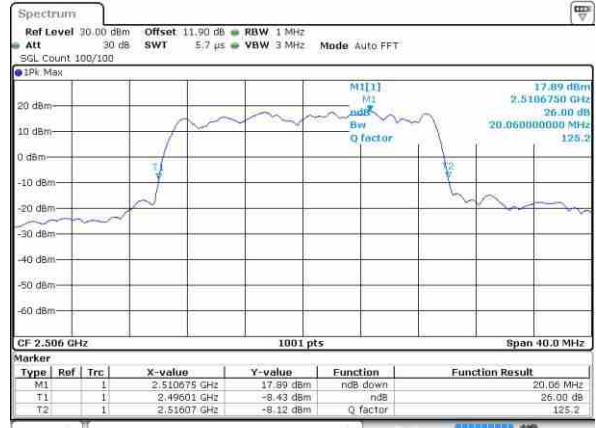
LTE Band 41

Lowest Channel / 15MHz / QPSK



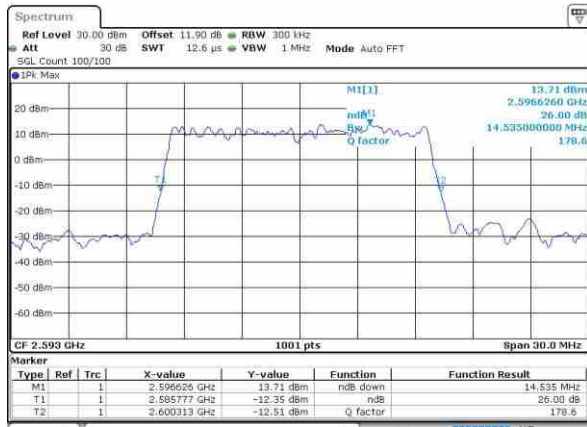
Date: 19 JUN 2018 21:40:58

Lowest Channel / 20MHz / 16QAM



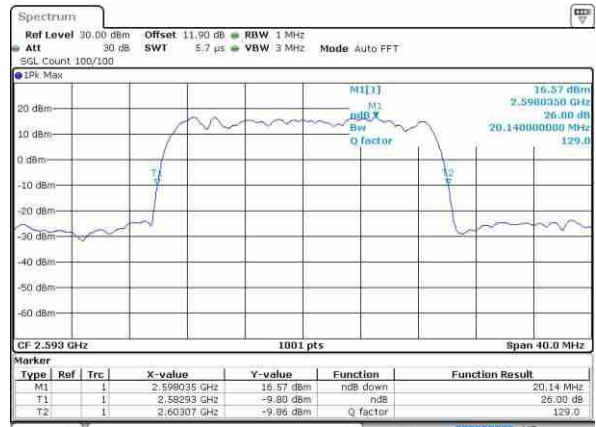
Date: 19 JUN 2018 21:42:01

Middle Channel / 15MHz / QPSK



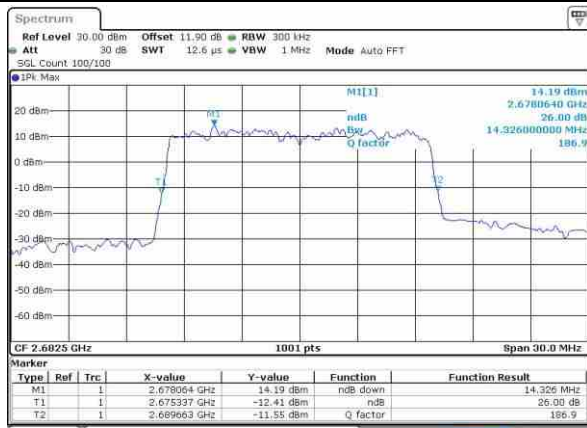
Date: 19 JUN 2018 21:41:19

Middle Channel / 20MHz / 16QAM



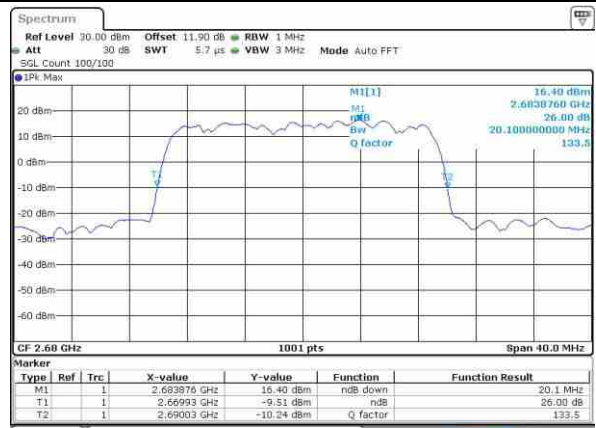
Date: 19 JUN 2018 21:42:22

Highest Channel / 15MHz / QPSK



Date: 19 JUN 2018 21:41:40

Highest Channel / 20MHz / 16QAM



Date: 19 JUN 2018 21:42:43

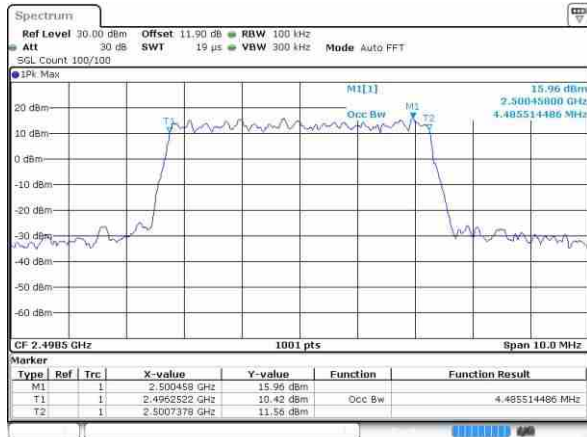
**Occupied Bandwidth**

Mode	LTE Band 41 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.49	4.51	9.01	9.03	13.43	13.40	18.42	18.02
Middle CH	-	-	-	-	4.50	4.47	9.07	9.01	13.46	13.46	18.18	18.34
Highest CH	-	-	-	-	4.51	4.46	9.01	9.03	13.49	13.40	18.22	18.30
Mode	LTE Band 41 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.50	-	9.05	-	13.46	-	18.34	-
Middle CH	-	-	-	-	4.48	-	8.97	-	13.43	-	18.30	-
Highest CH	-	-	-	-	4.51	-	8.99	-	13.40	-	18.30	-

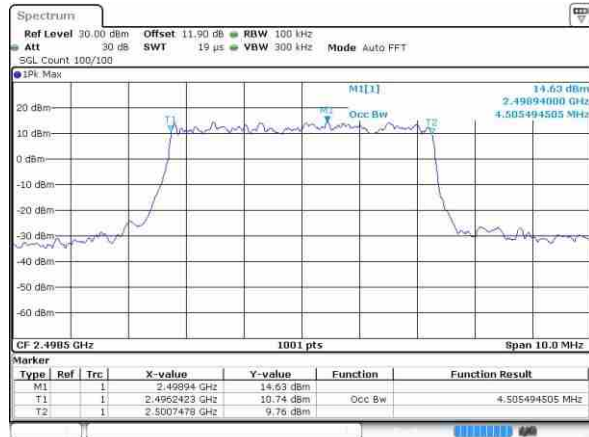


LTE Band 41

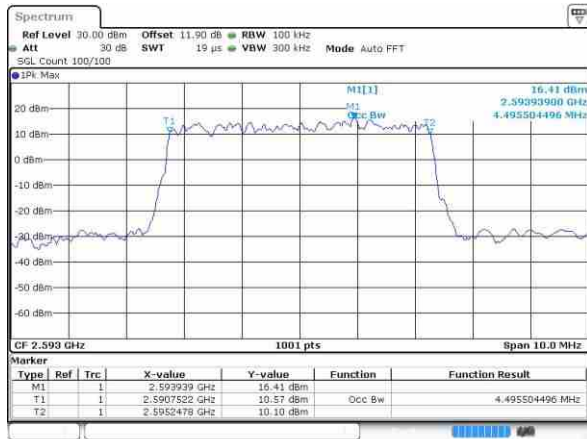
Lowest Channel / 5MHz / QPSK



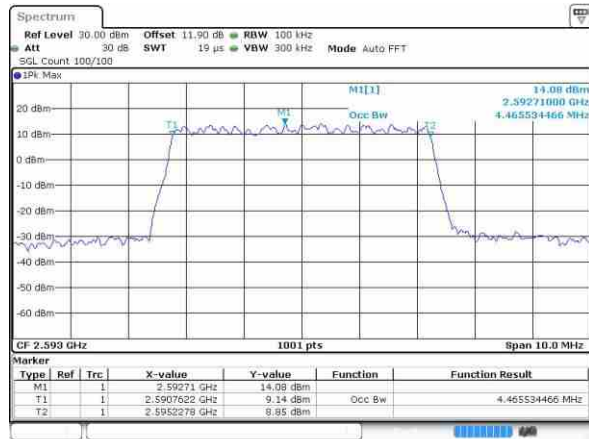
Lowest Channel / 5MHz / 16QAM



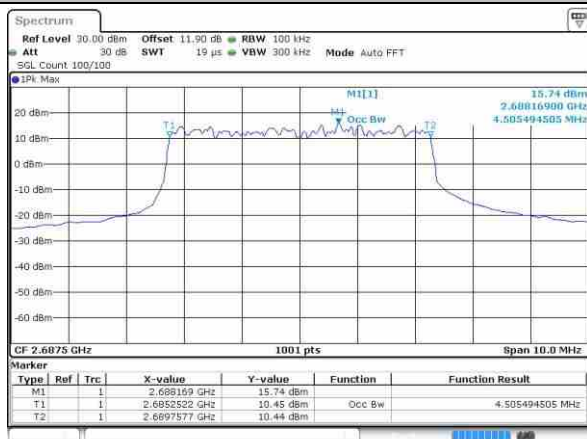
Middle Channel / 5MHz / QPSK



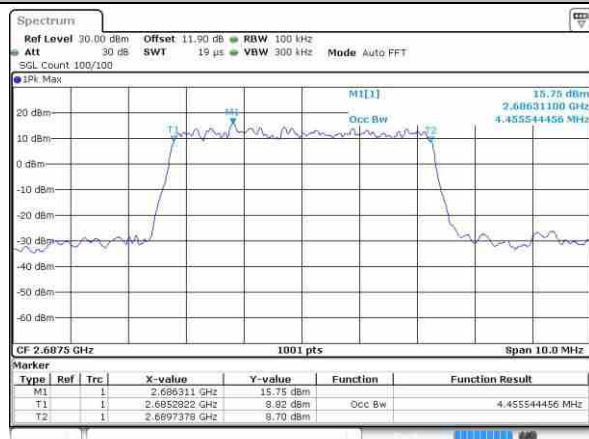
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



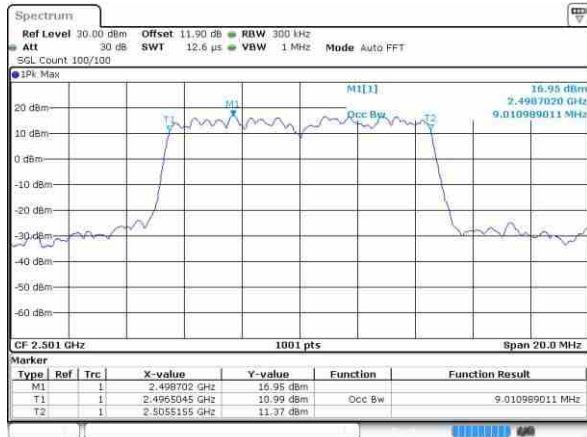
Highest Channel / 5MHz / 16QAM





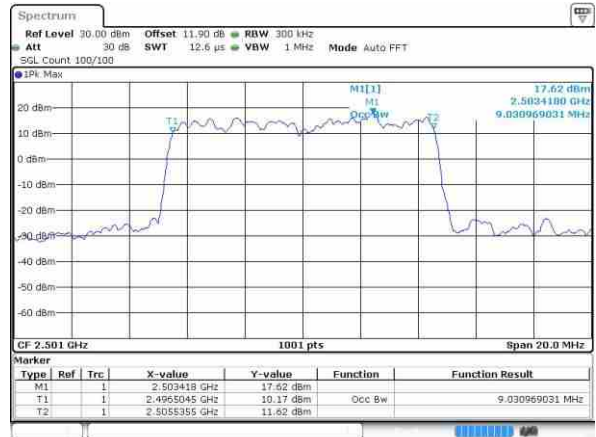
LTE Band 41

Lowest Channel / 10MHz / QPSK



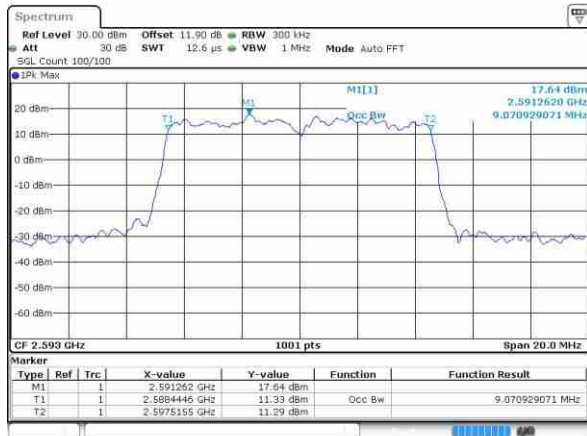
Date: 19 JUN 2018 21:32:24

Lowest Channel / 10MHz / 16QAM



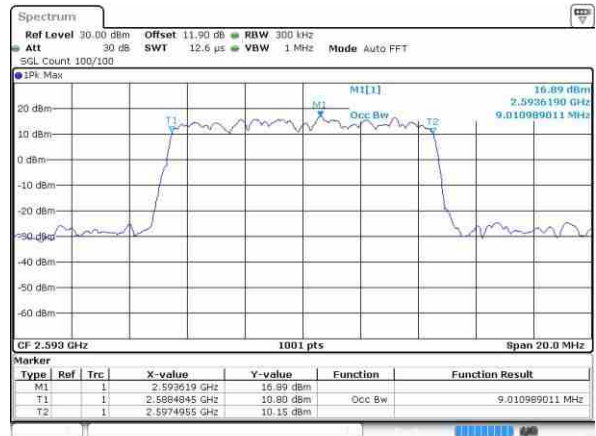
Date: 19 JUN 2018 21:32:34

Middle Channel / 10MHz / QPSK



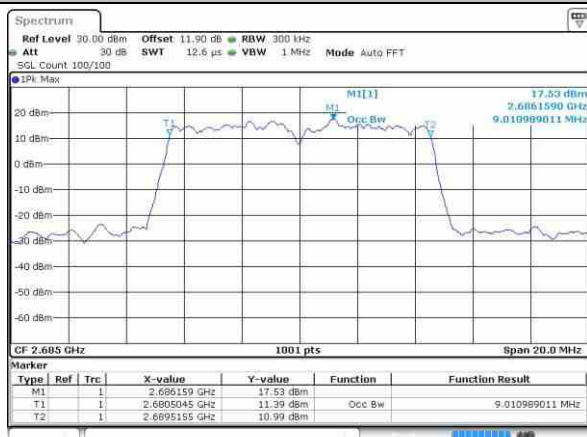
Date: 19 JUN 2018 21:33:05

Middle Channel / 10MHz / 16QAM



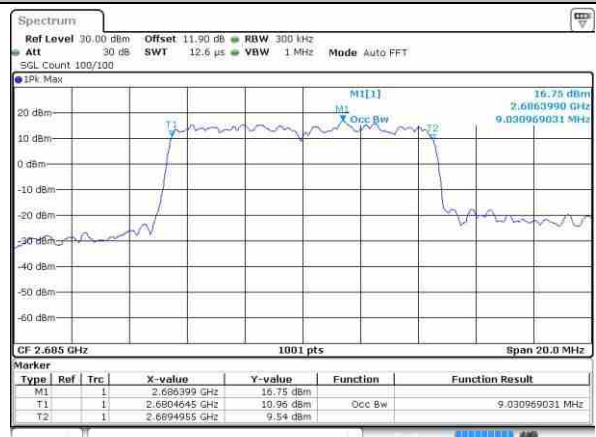
Date: 19 JUN 2018 21:33:16

Highest Channel / 10MHz / QPSK



Date: 19 JUN 2018 21:33:47

Highest Channel / 10MHz / 16QAM

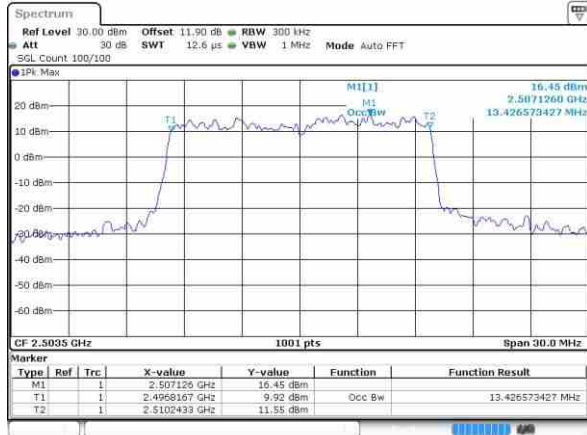


Date: 19 JUN 2018 21:33:58



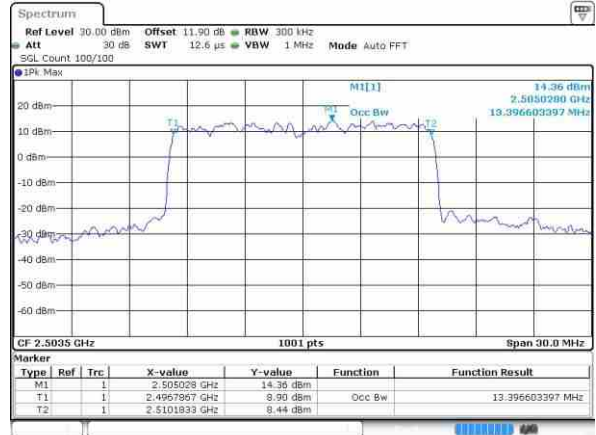
LTE Band 41

Lowest Channel / 15MHz / QPSK



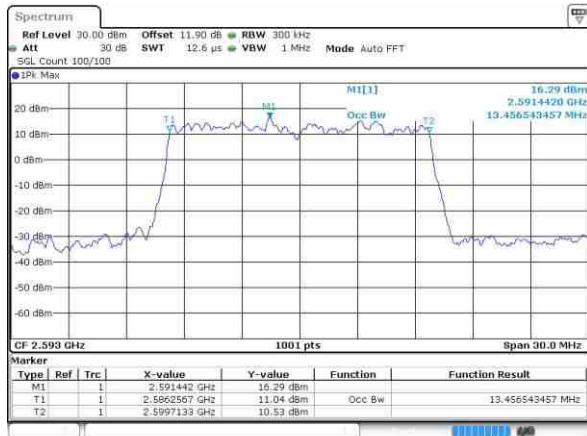
Date: 19 JUN 2018 21:34:29

Lowest Channel / 15MHz / 16QAM



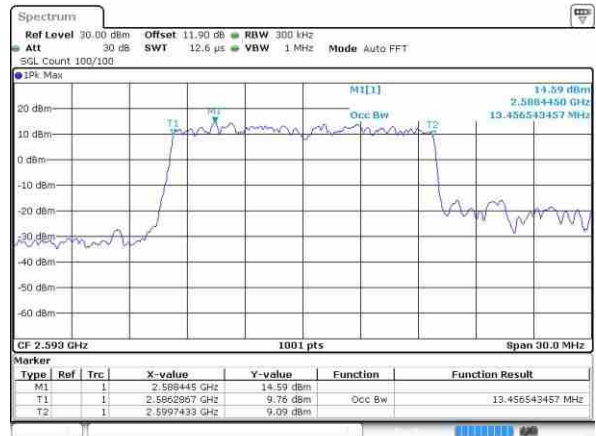
Date: 19 JUN 2018 21:34:40

Middle Channel / 15MHz / QPSK



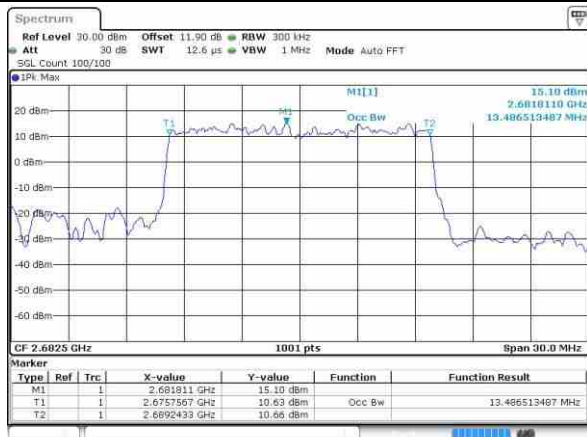
Date: 19 JUN 2018 21:35:11

Middle Channel / 15MHz / 16QAM



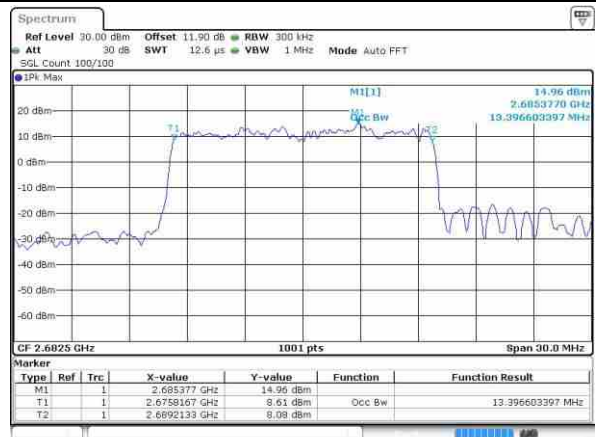
Date: 19 JUN 2018 21:35:22

Highest Channel / 15MHz / QPSK



Date: 19 JUN 2018 21:35:53

Highest Channel / 15MHz / 16QAM

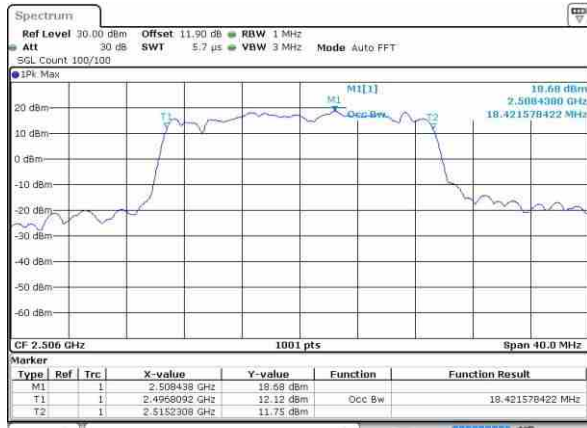


Date: 19 JUN 2018 21:36:04

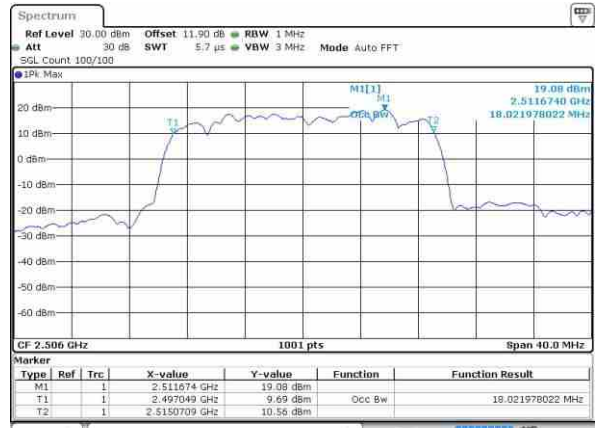


LTE Band 41

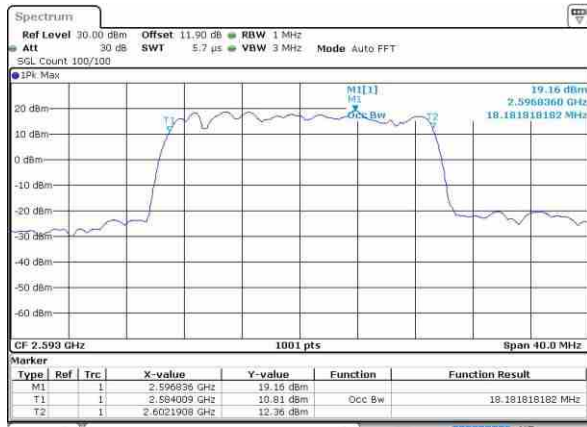
Lowest Channel / 20MHz / QPSK



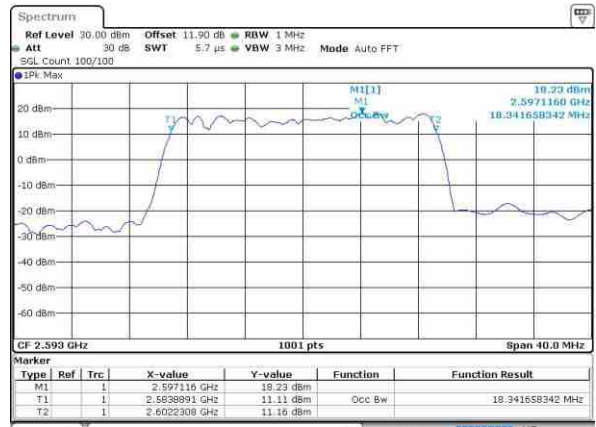
Lowest Channel / 20MHz / 16QAM



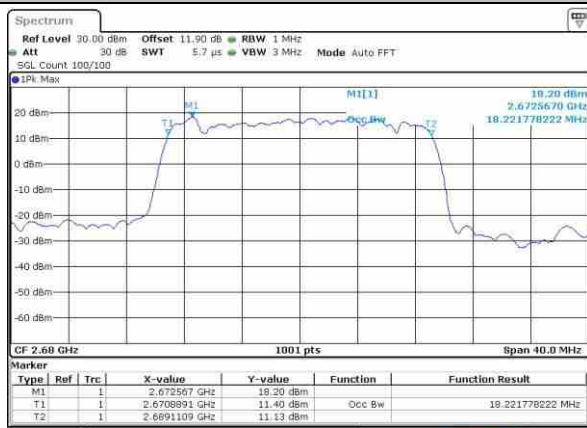
Middle Channel / 20MHz / QPSK



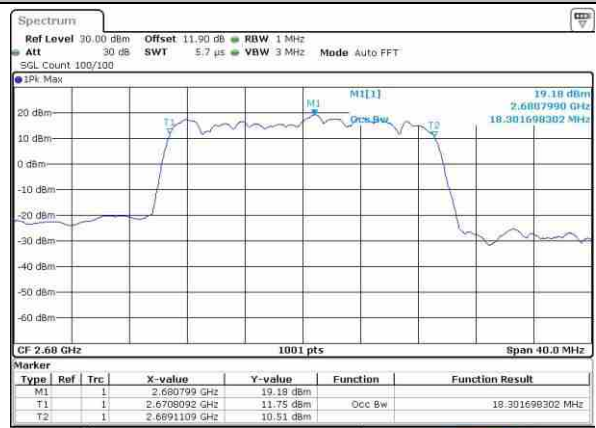
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



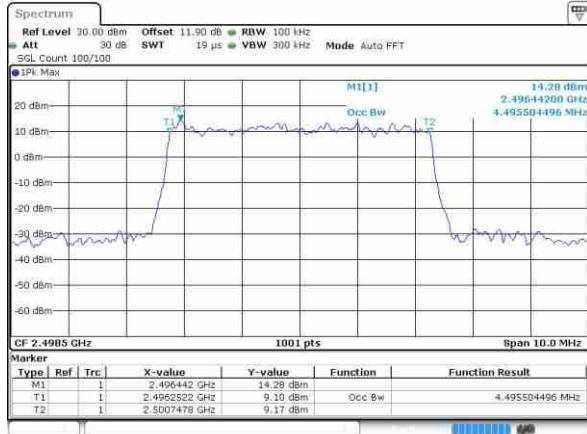
Highest Channel / 20MHz / 16QAM



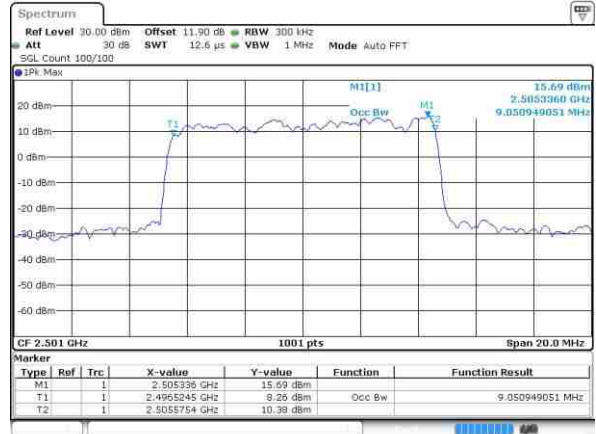


LTE Band 41

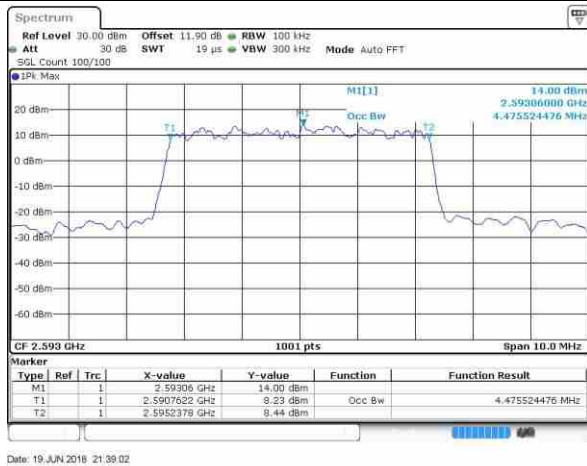
Lowest Channel / 5MHz / 64QAM



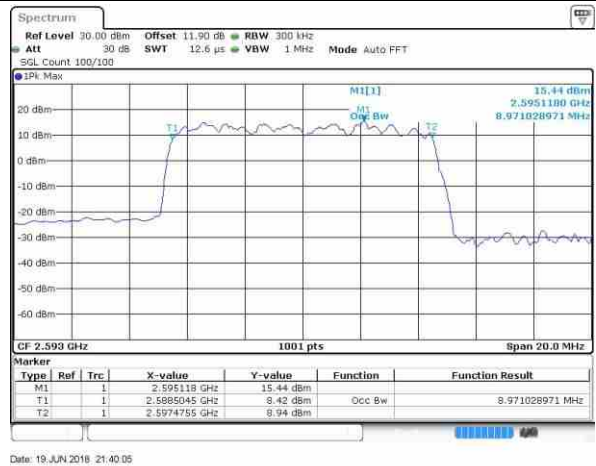
Lowest Channel / 10MHz / 64QAM



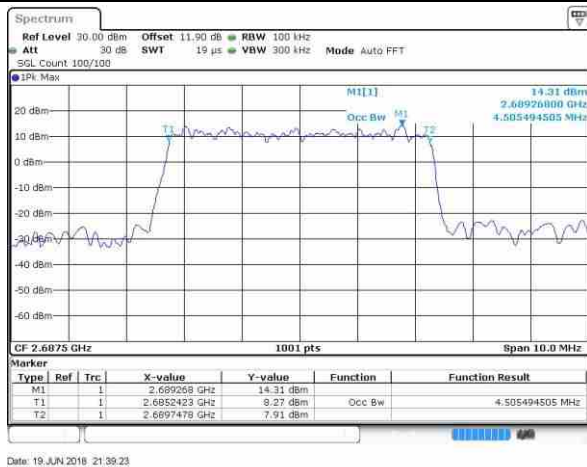
Middle Channel / 5MHz / 64QAM



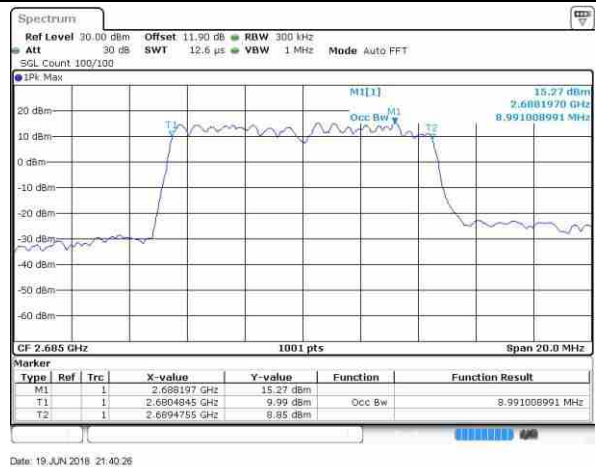
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



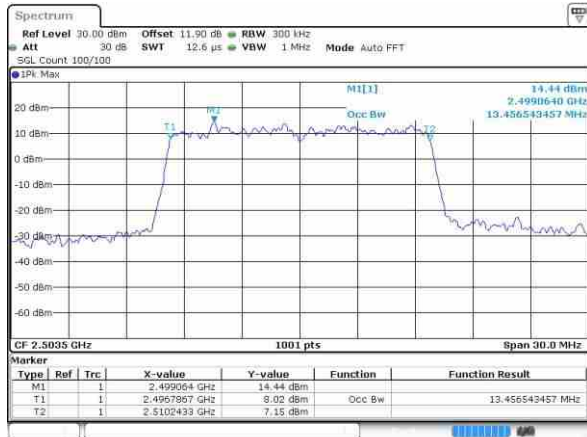
Highest Channel / 10MHz / 64QAM





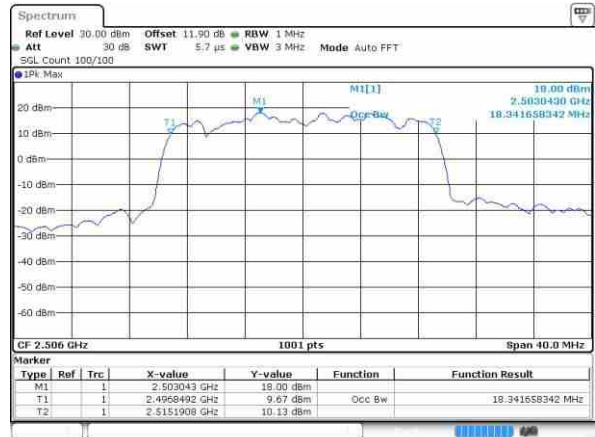
LTE Band 41

Lowest Channel / 15MHz / 64QAM



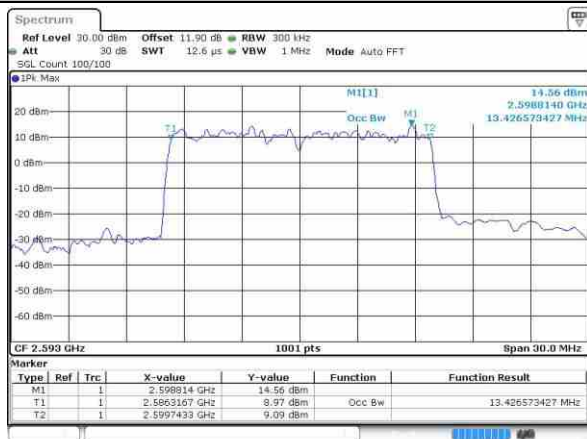
Date: 19 JUN 2018 21:40:47

Lowest Channel / 20MHz / 64QAM



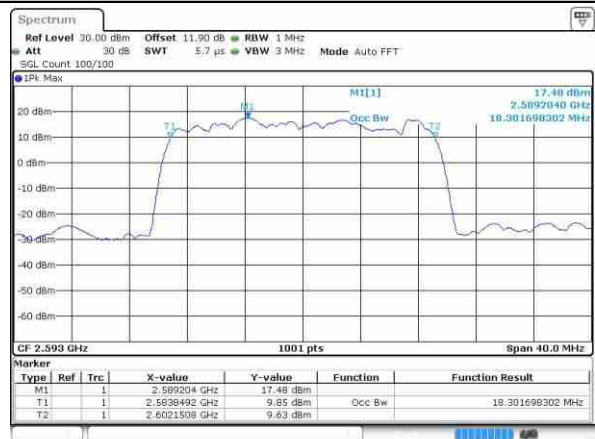
Date: 19 JUN 2018 21:41:50

Middle Channel / 15MHz / 64QAM



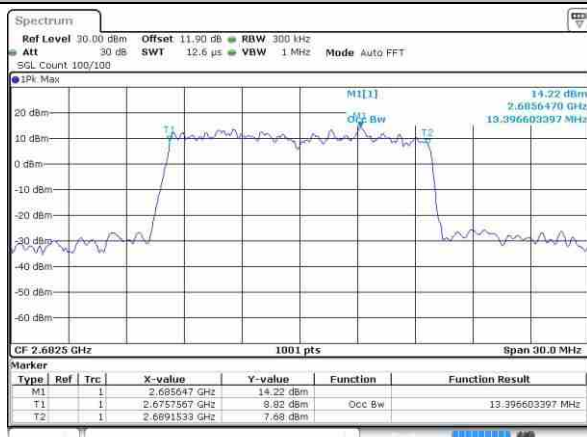
Date: 19 JUN 2018 21:41:08

Middle Channel / 20MHz / 64QAM



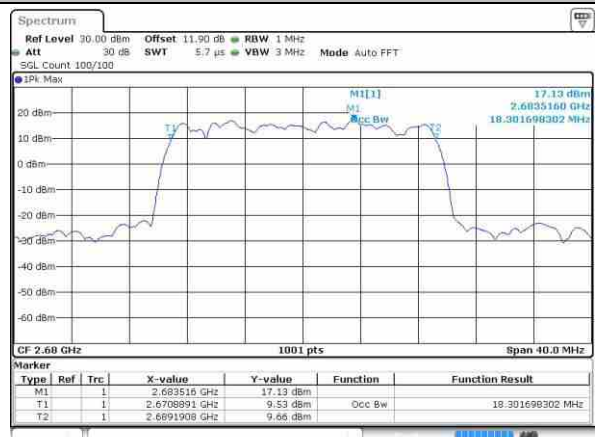
Date: 19 JUN 2018 21:42:11

Highest Channel / 15MHz / 64QAM

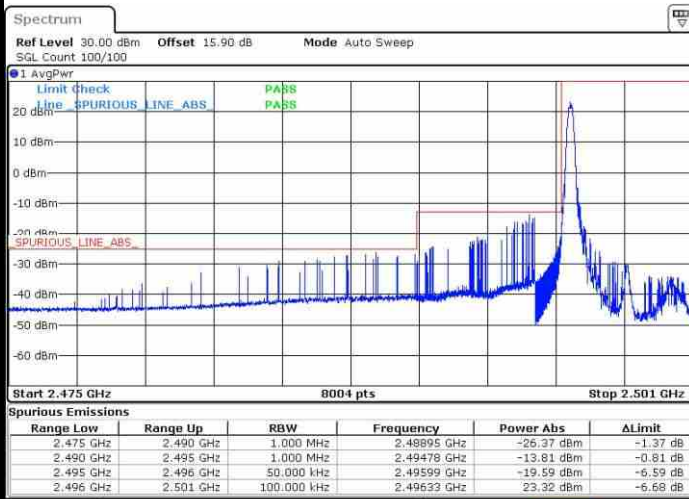
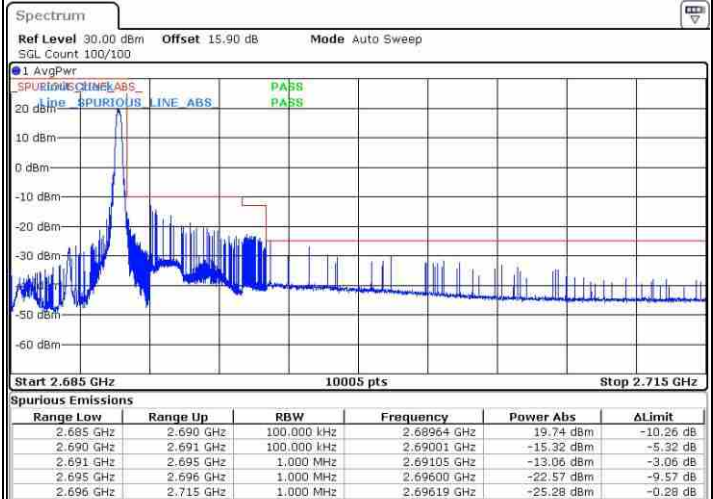
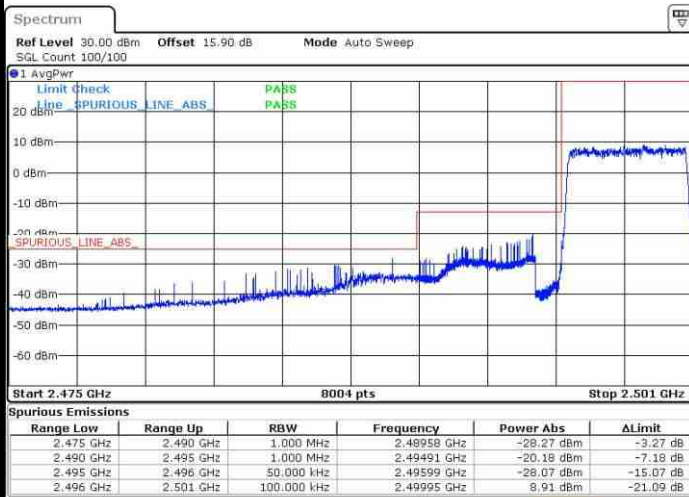
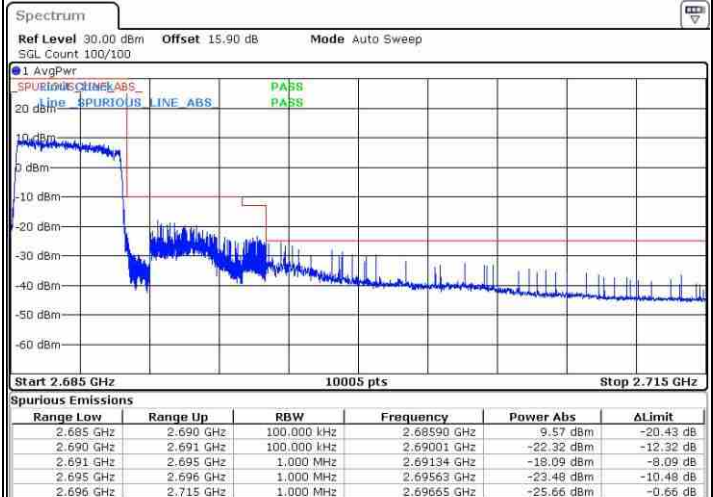


Date: 19 JUN 2018 21:41:29

Highest Channel / 20MHz / 64QAM



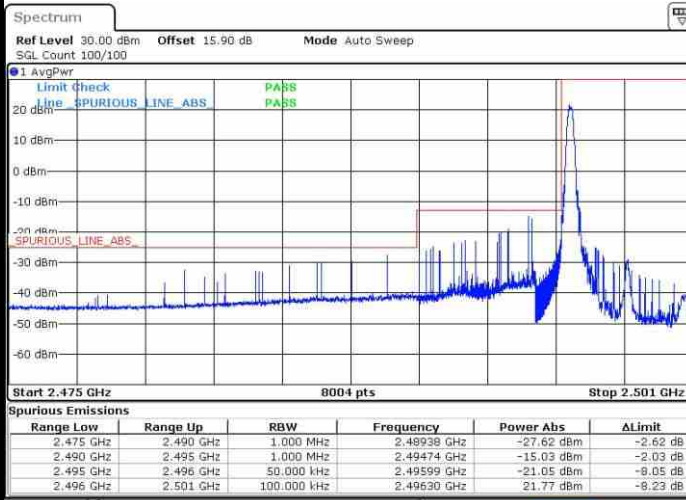
Date: 19 JUN 2018 21:42:32

**Conducted Band Edge****LTE Band 41 / 5MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

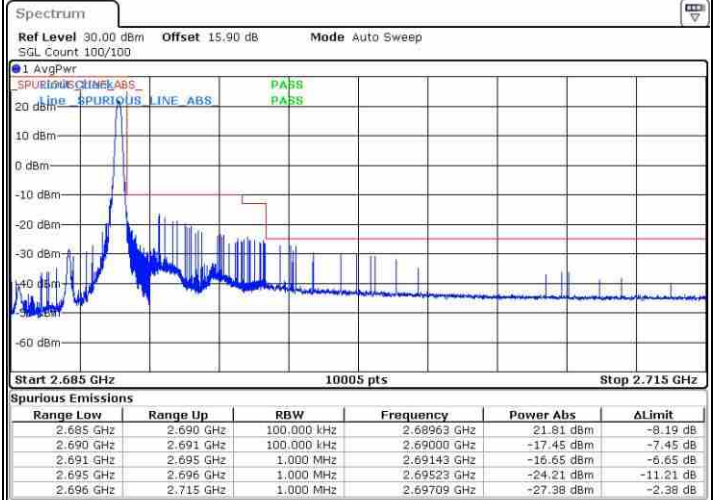


LTE Band 41 / 5MHz / 16QAM

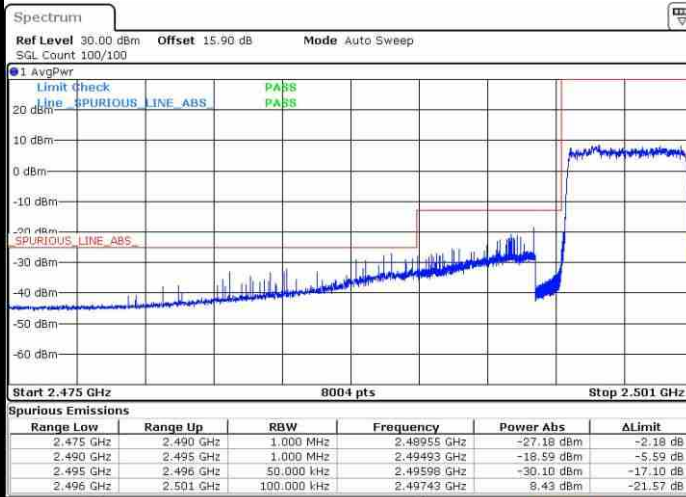
Lowest Band Edge / 1RB



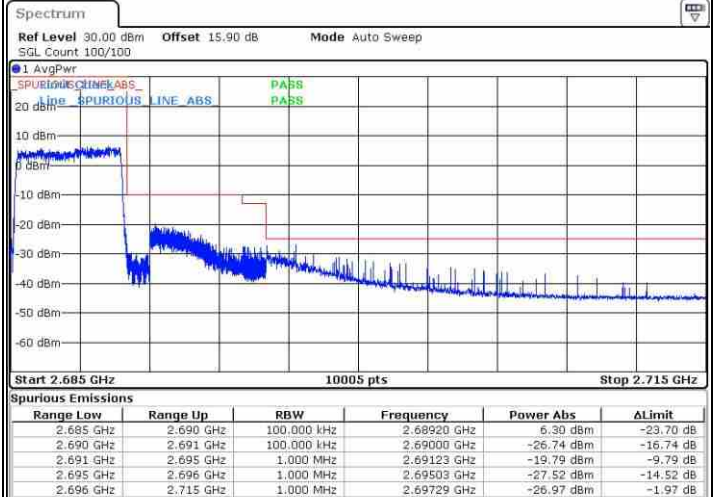
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



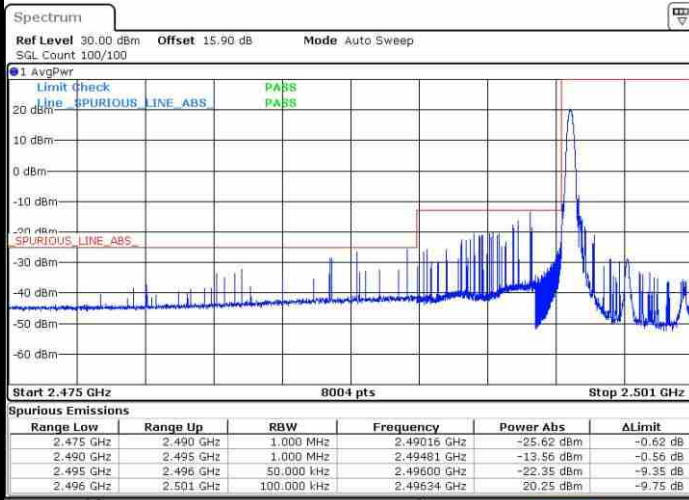
Highest Band Edge / Full RB





LTE Band 41 / 5MHz / 64QAM

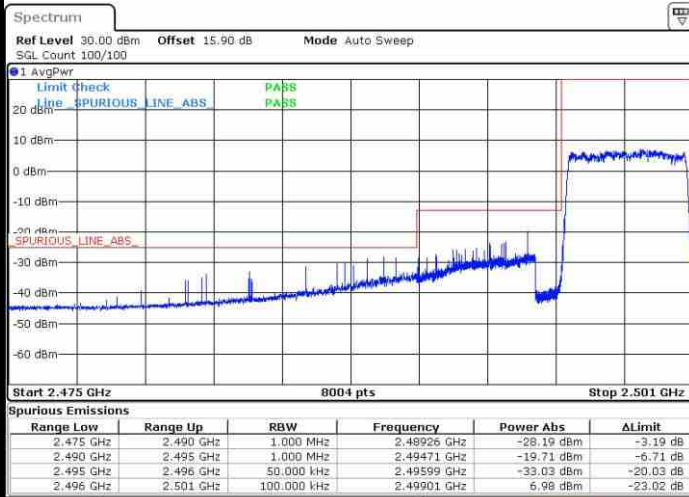
Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



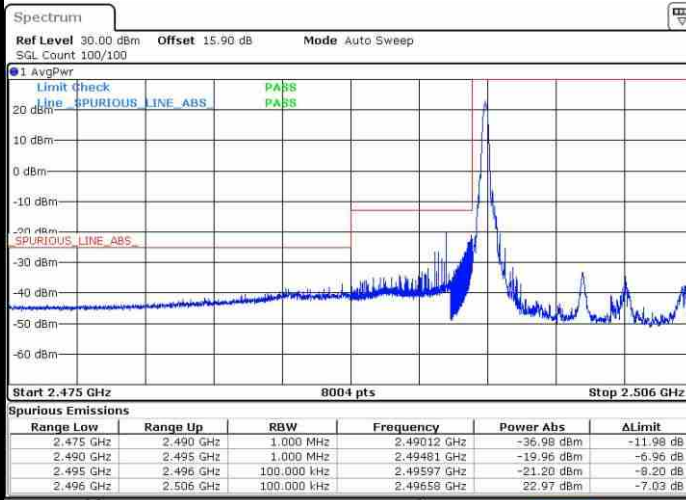
Highest Band Edge / Full RB



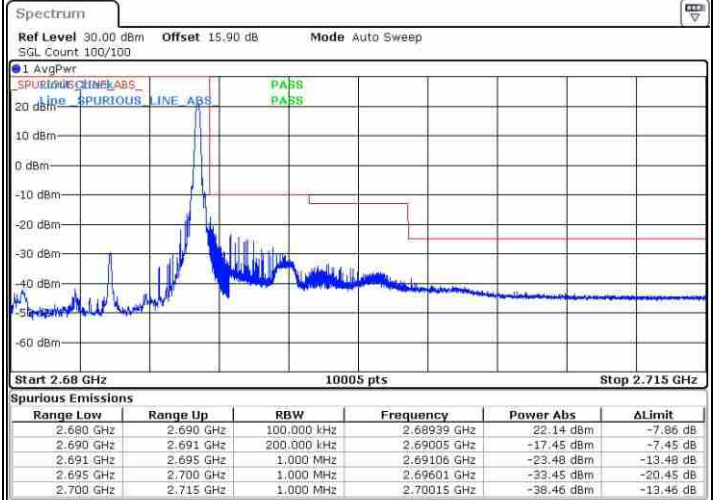


LTE Band 41 / 10MHz / QPSK

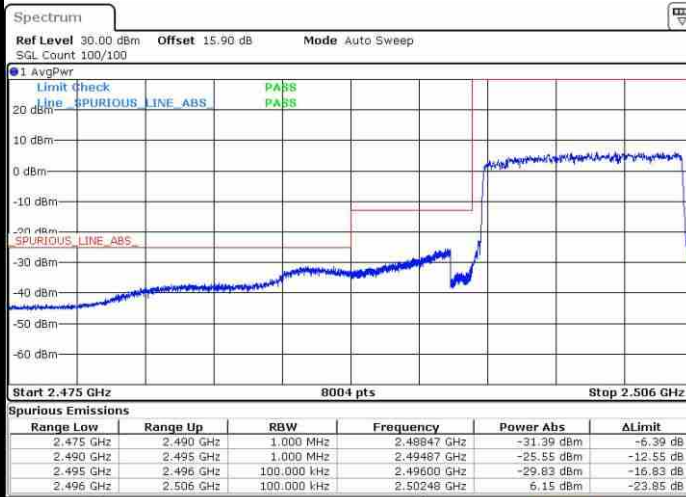
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

