



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	3.74	4.93	4.84	6.03	PASS
Middle CH	3.74	4.9	4.78	5.97	
Highest CH	3.83	4.93	4.64	6	

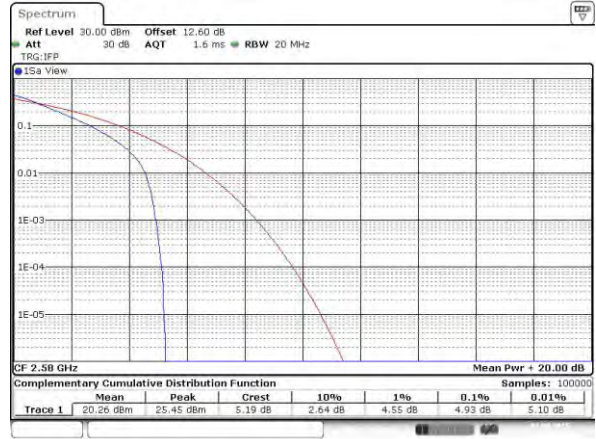


LTE Band 38 / 20MHz / QPSK

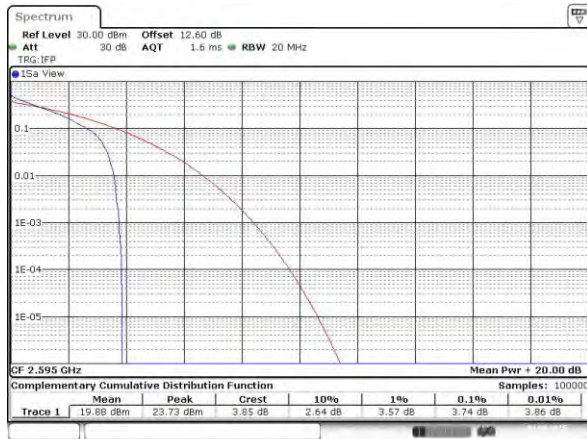
Lowest Channel / 1RB



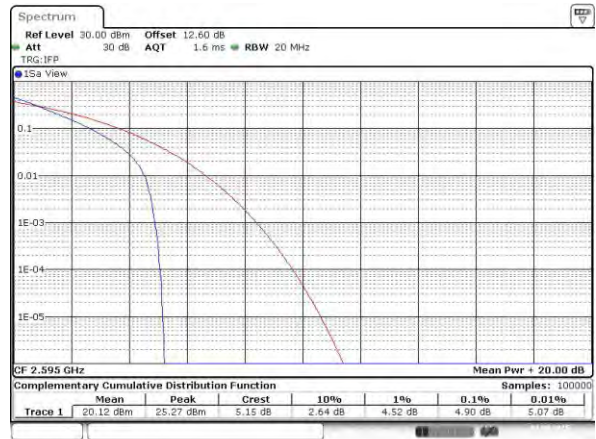
Lowest Channel / Full RB



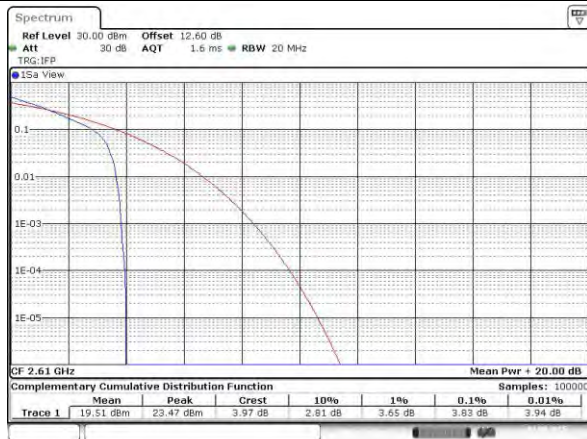
Middle Channel / 1RB



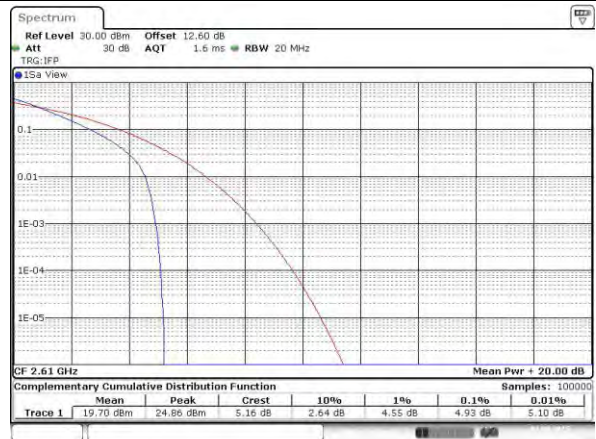
Middle Channel / Full RB



Highest Channel / 1RB



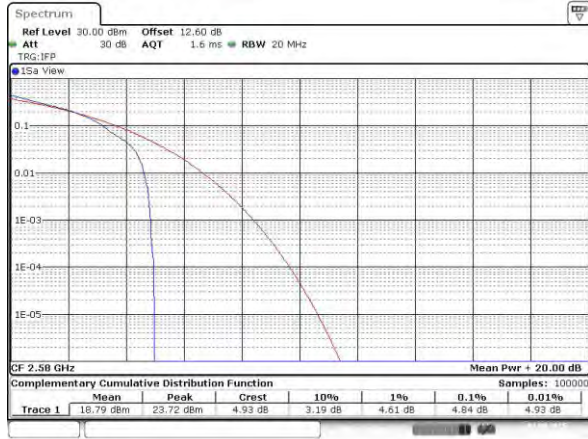
Highest Channel / Full RB



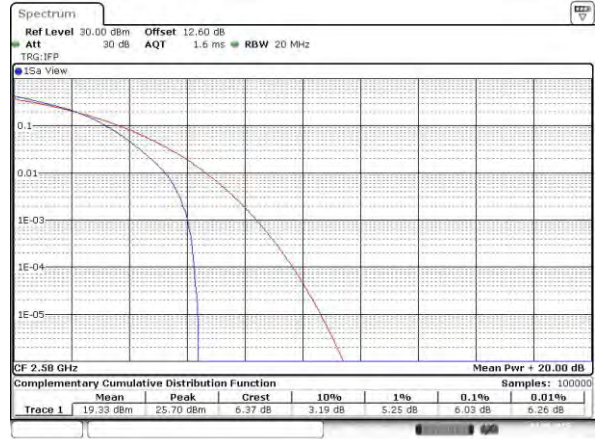


LTE Band 38 / 20MHz / 16QAM

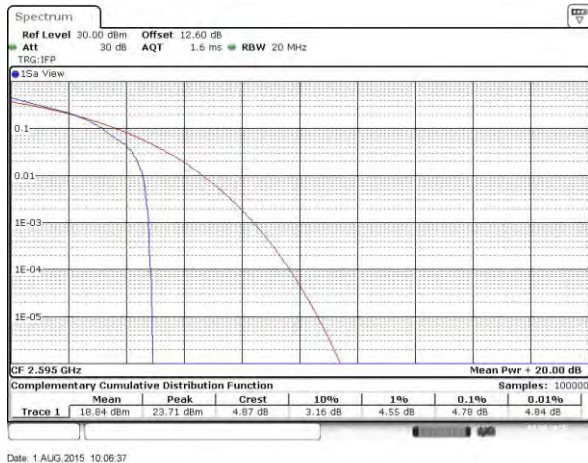
Lowest Channel / 1RB



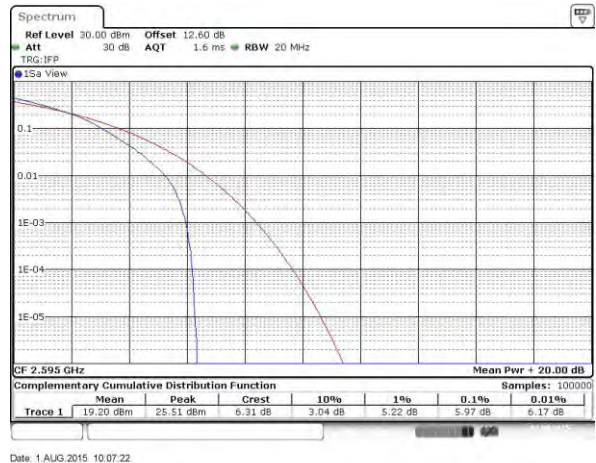
Lowest Channel / Full RB



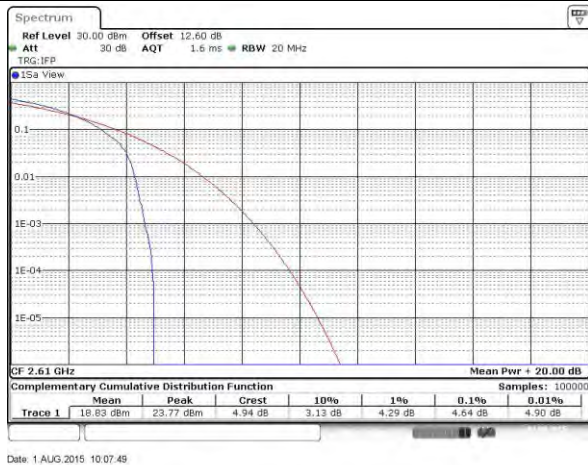
Middle Channel / 1RB



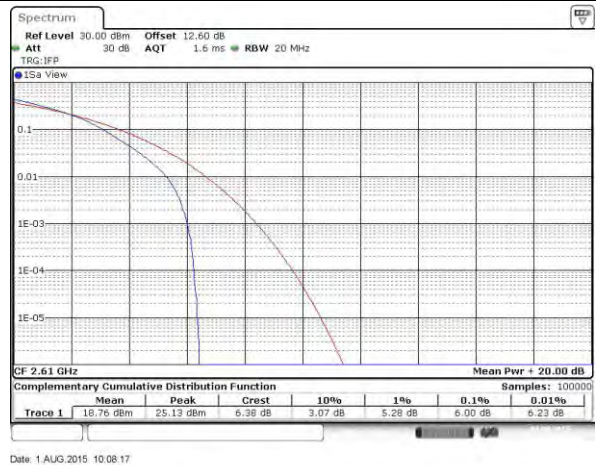
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB





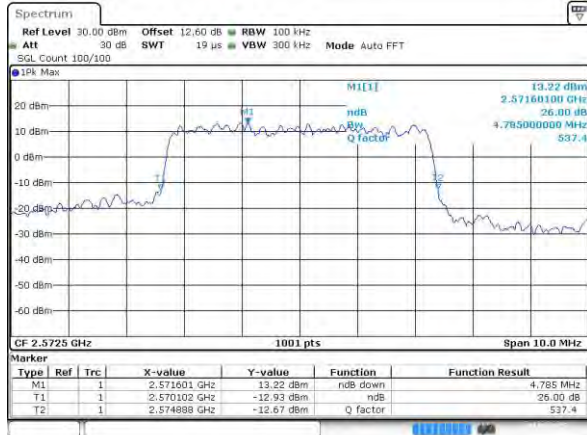
26dB Bandwidth

Mode	LTE Band 38 : 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	-	-	-	-	4.79	4.92	9.75	9.73	14.51	14.45	20.42	20.22
Middle CH	-	-	-	-	5.08	4.85	9.69	9.75	14.24	14.21	20.82	20.3
Highest CH	-	-	-	-	5.55	4.91	9.63	9.85	14.27	14.45	20.38	21.5



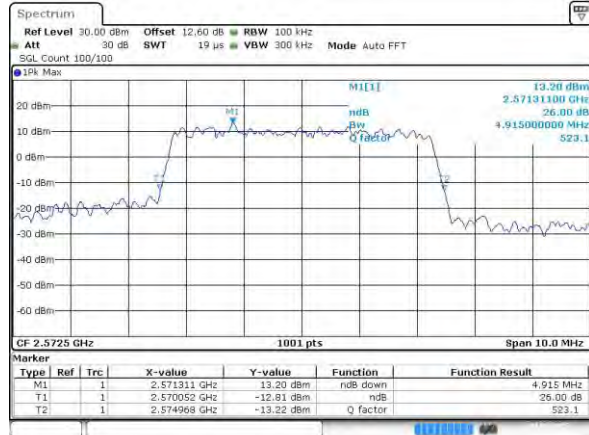
LTE Band 38

Lowest Channel / 5MHz / QPSK



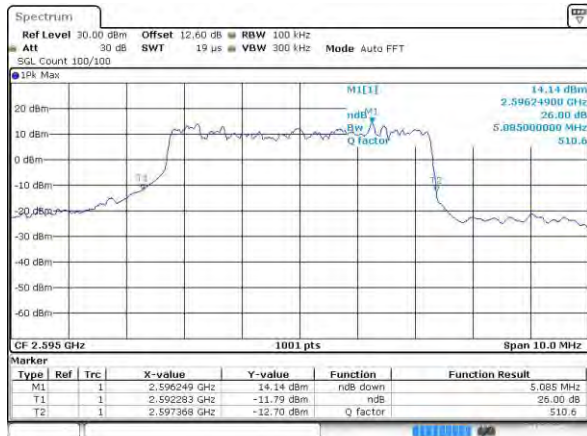
Date: 1 AUG 2015 08:45:33

Lowest Channel / 5MHz / 16QAM



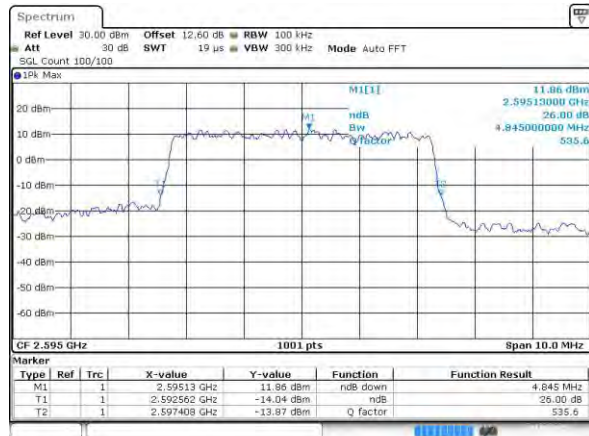
Date: 1 AUG 2015 08:45:44

Middle Channel / 5MHz / QPSK



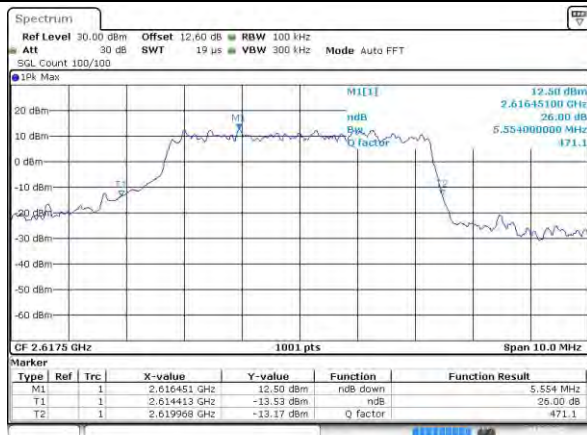
Date: 1 AUG 2015 08:52:45

Middle Channel / 5MHz / 16QAM



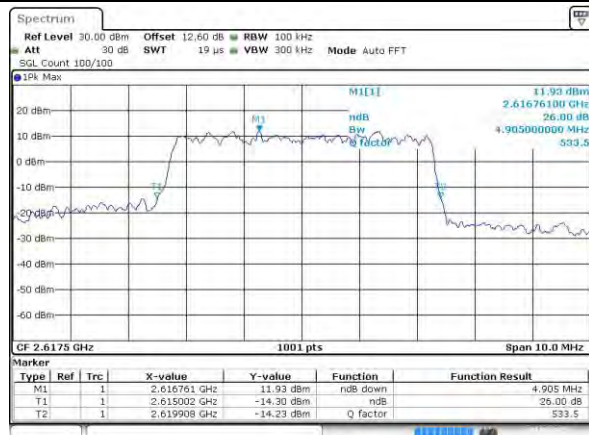
Date: 1 AUG 2015 08:52:55

Highest Channel / 5MHz / QPSK



Date: 1 AUG 2015 08:55:16

Highest Channel / 5MHz / 16QAM

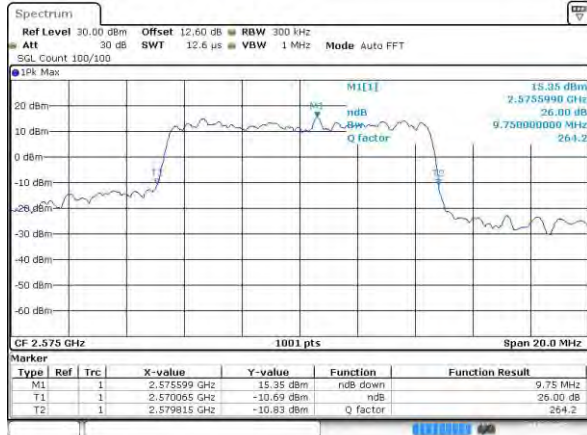


Date: 1 AUG 2015 08:55:27



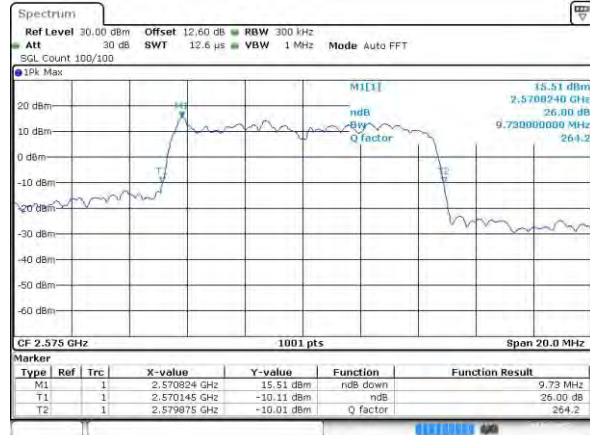
LTE Band 38

Lowest Channel / 10MHz / QPSK



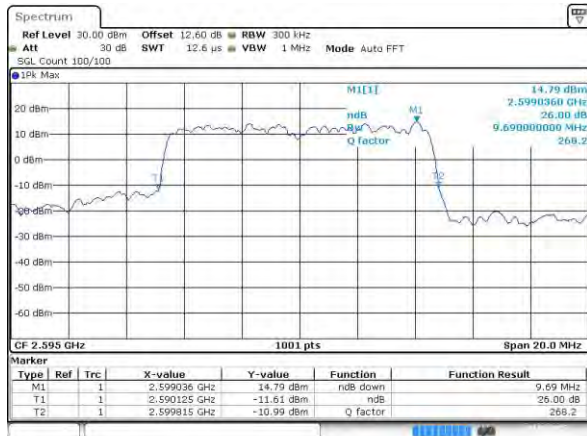
Date: 1 AUG 2015 09:02:28

Lowest Channel / 10MHz / 16QAM



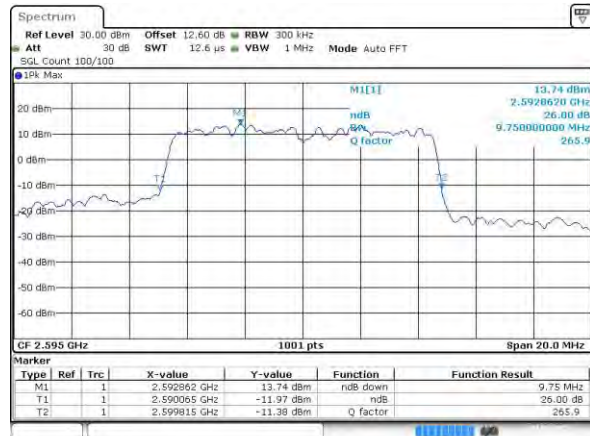
Date: 1 AUG 2015 09:02:38

Middle Channel / 10MHz / QPSK



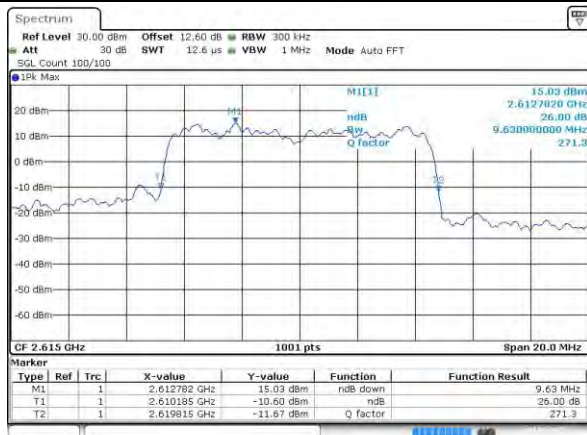
Date: 1 AUG 2015 09:06:39

Middle Channel / 10MHz / 16QAM



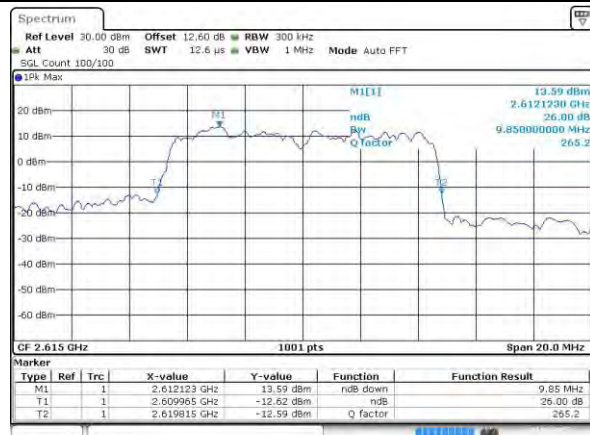
Date: 1 AUG 2015 09:06:45

Highest Channel / 10MHz / QPSK



Date: 1 AUG 2015 09:12:10

Highest Channel / 10MHz / 16QAM

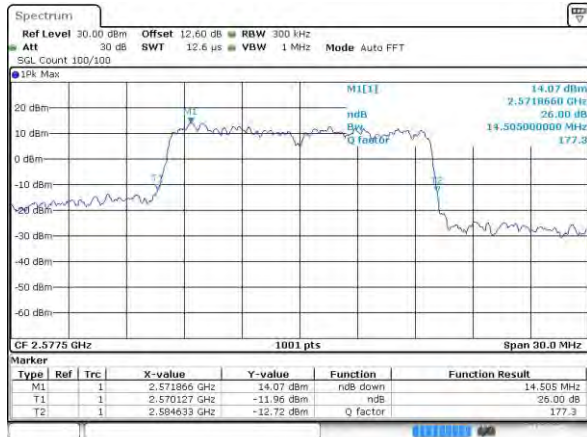


Date: 1 AUG 2015 09:12:21

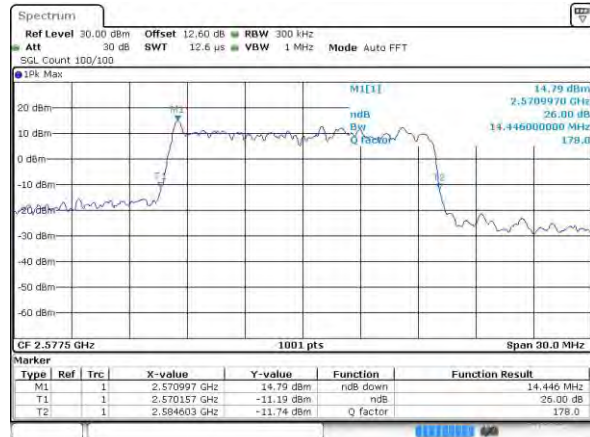


LTE Band 38

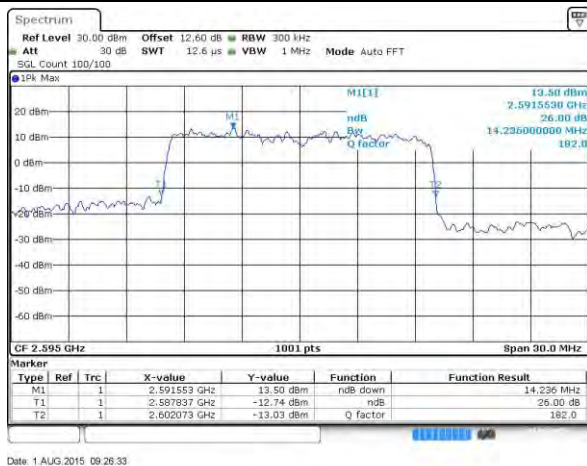
Lowest Channel / 15MHz / QPSK



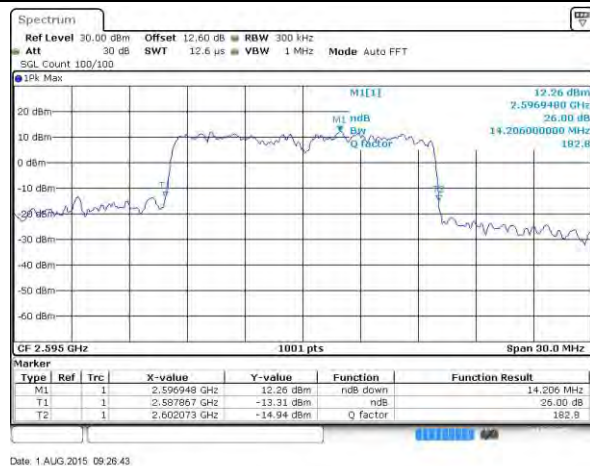
Lowest Channel / 15MHz / 16QAM



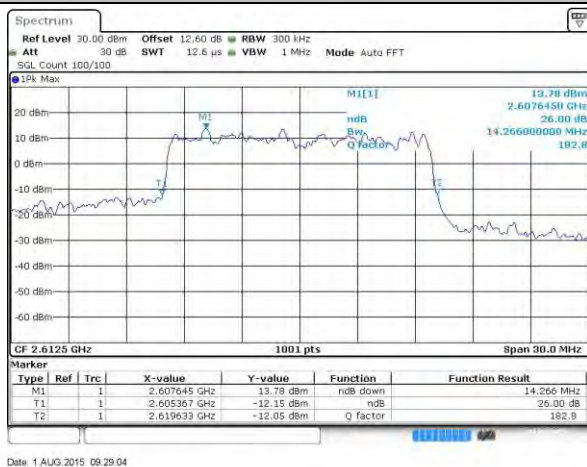
Middle Channel / 15MHz / QPSK



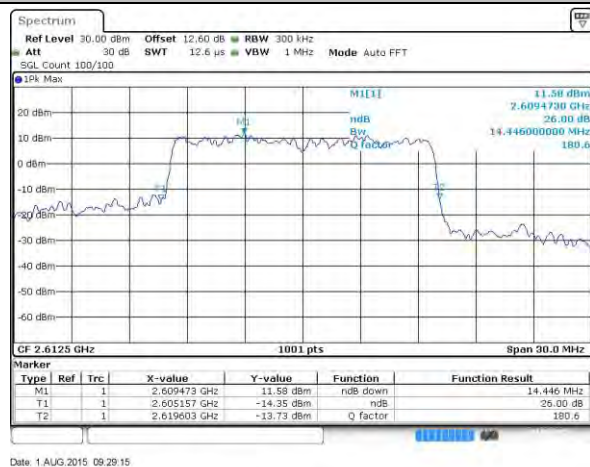
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



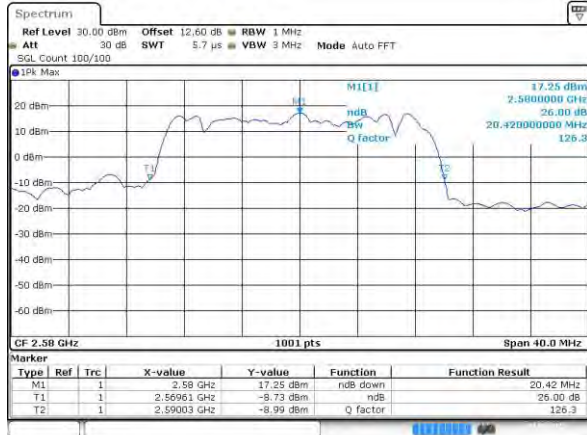
Highest Channel / 15MHz / 16QAM



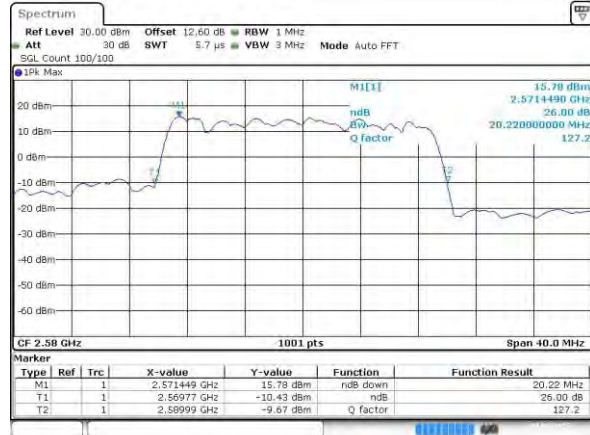


LTE Band 38

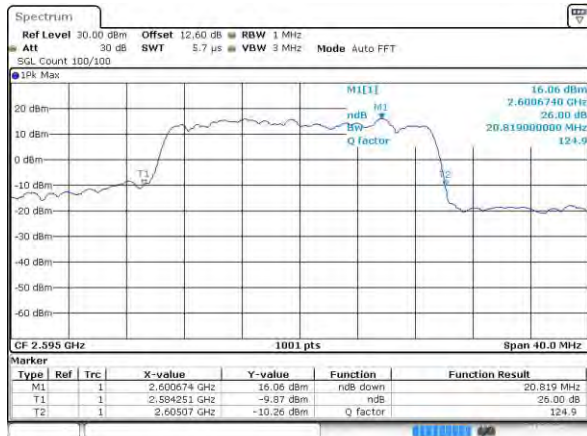
Lowest Channel / 20MHz / QPSK



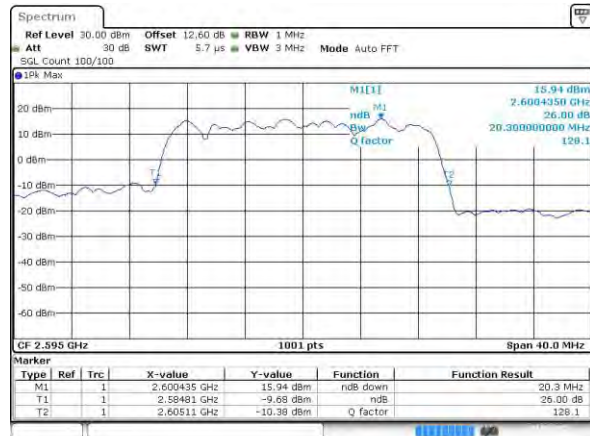
Lowest Channel / 20MHz / 16QAM



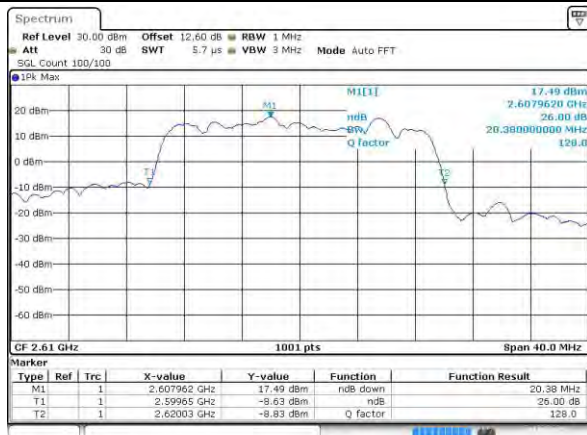
Middle Channel / 20MHz / QPSK



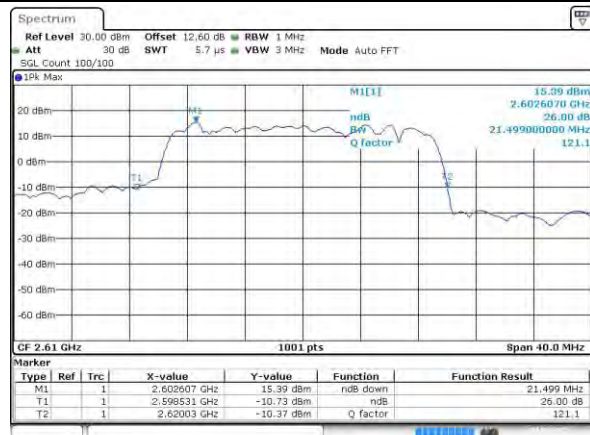
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



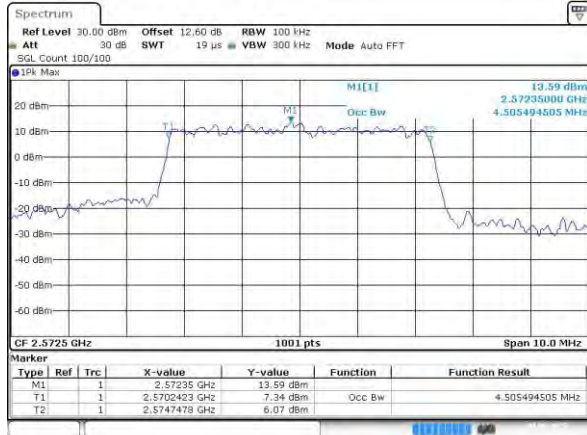
Highest Channel / 20MHz / 16QAM



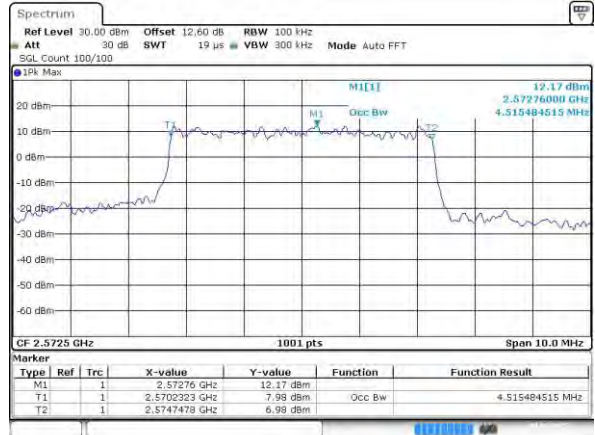


Occupied Bandwidth

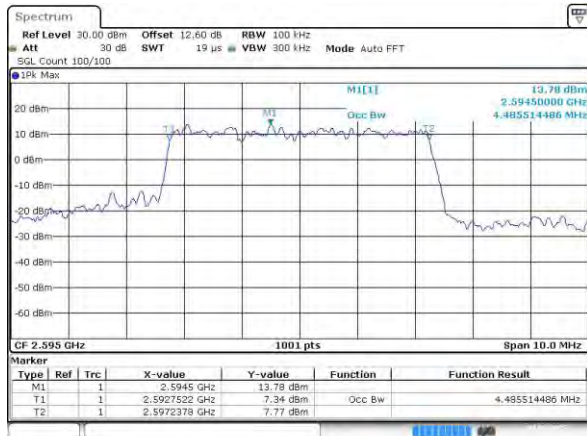
Mode	LTE Band 38 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.51	4.52	9.03	9.07	13.43	13.46	18.54	18.5
Middle CH	-	-	-	-	4.49	4.49	9.01	9.05	13.52	13.49	18.54	18.54
Highest CH	-	-	-	-	4.48	4.51	9.05	9.01	13.49	13.52	18.5	18.54

**LTE Band 38****Lowest Channel / 5MHz / QPSK**

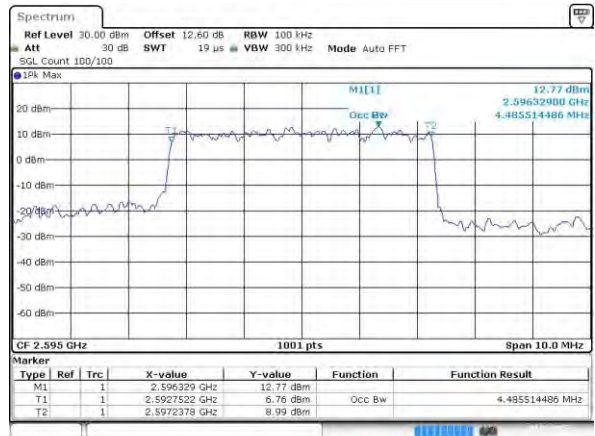
Date: 1 AUG 2015 08:45:12

Lowest Channel / 5MHz / 16QAM

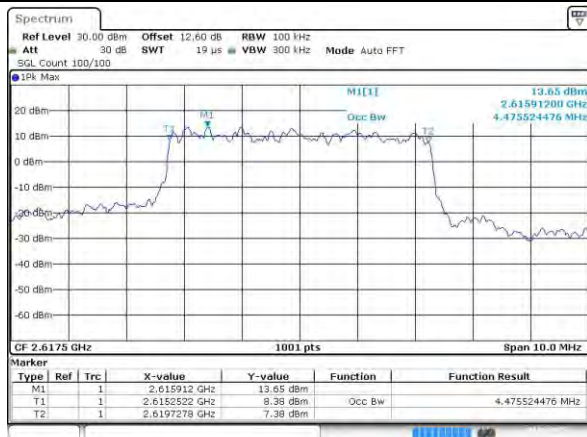
Date: 1 AUG 2015 08:45:23

Middle Channel / 5MHz / QPSK

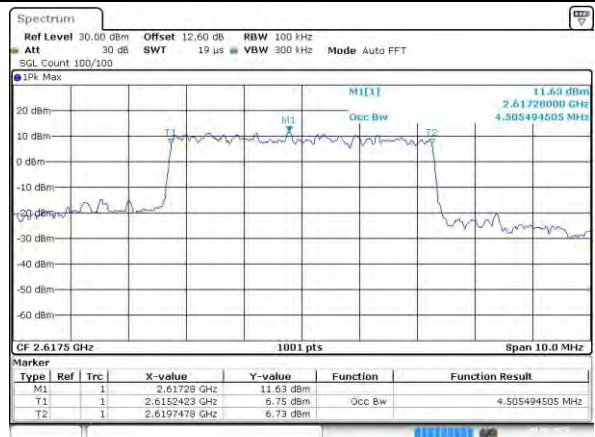
Date: 1 AUG 2015 08:52:24

Middle Channel / 5MHz / 16QAM

Date: 1 AUG 2015 08:52:34

Highest Channel / 5MHz / QPSK

Date: 1 AUG 2015 08:54:55

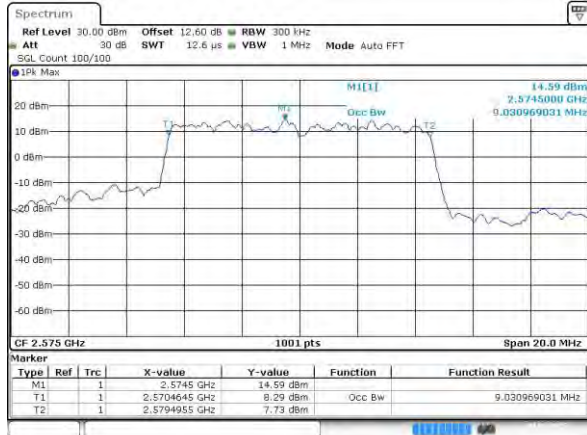
Highest Channel / 5MHz / 16QAM

Date: 1 AUG 2015 08:55:06



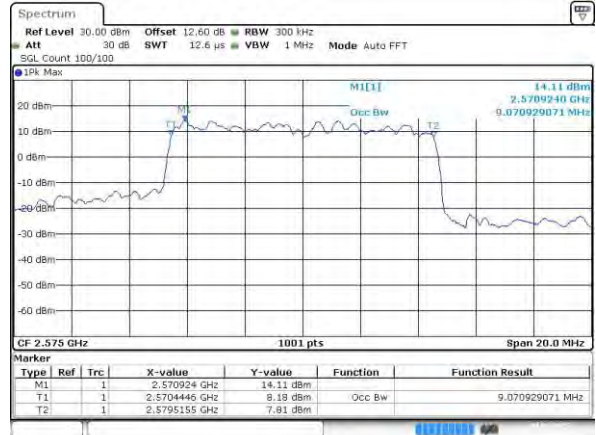
LTE Band 38

Lowest Channel / 10MHz / QPSK



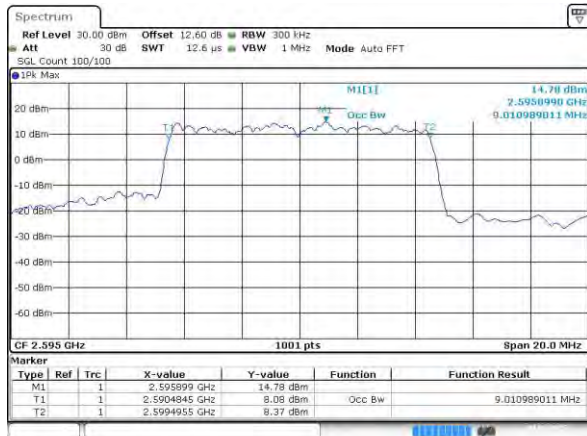
Date: 1 AUG 2015 09:02:07

Lowest Channel / 10MHz / 16QAM



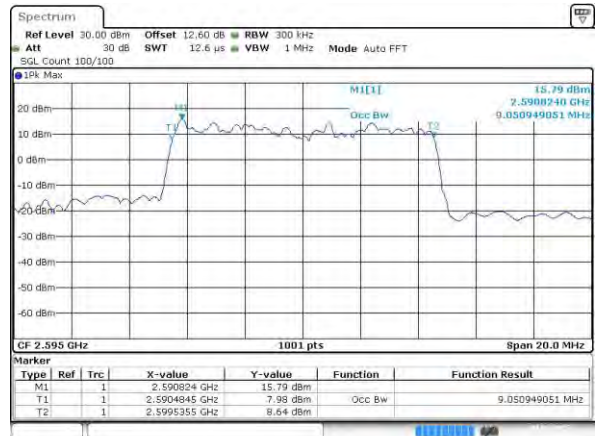
Date: 1 AUG 2015 09:02:17

Middle Channel / 10MHz / QPSK



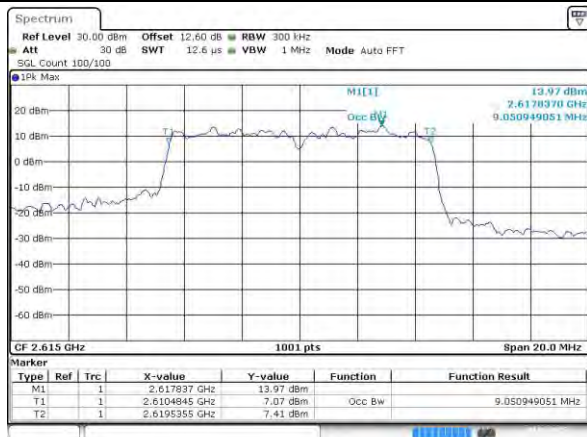
Date: 1 AUG 2015 09:09:16

Middle Channel / 10MHz / 16QAM



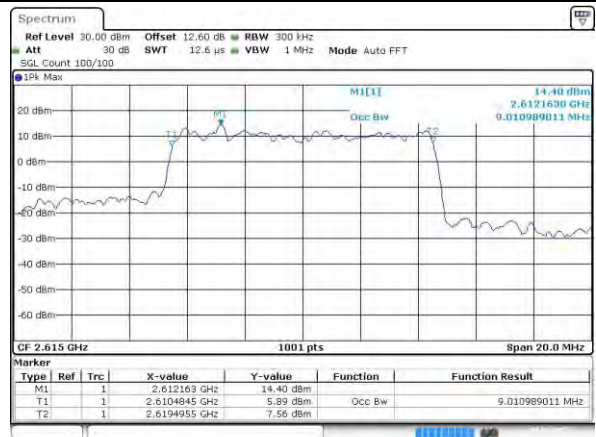
Date: 1 AUG 2015 09:09:26

Highest Channel / 10MHz / QPSK



Date: 1 AUG 2015 09:11:49

Highest Channel / 10MHz / 16QAM

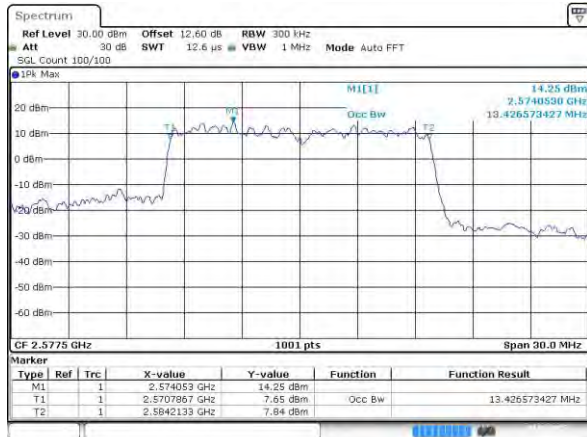


Date: 1 AUG 2015 09:12:00

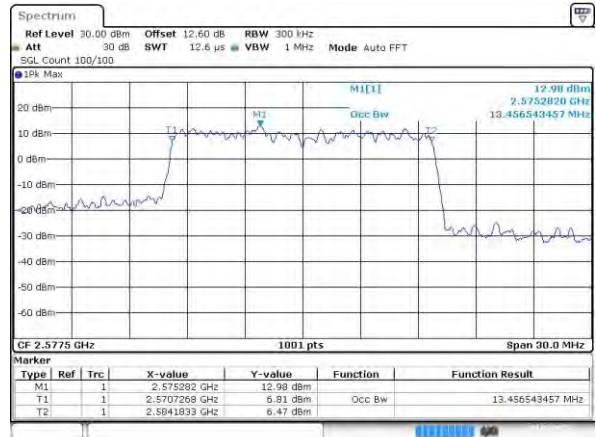


LTE Band 38

Lowest Channel / 15MHz / QPSK



Lowest Channel / 15MHz / 16QAM



Middle Channel / 15MHz / QPSK



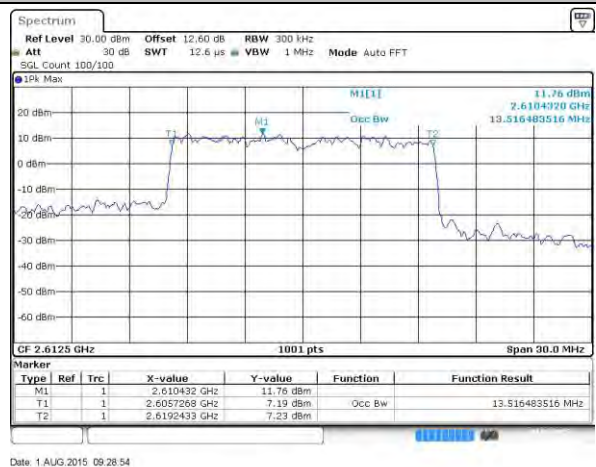
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



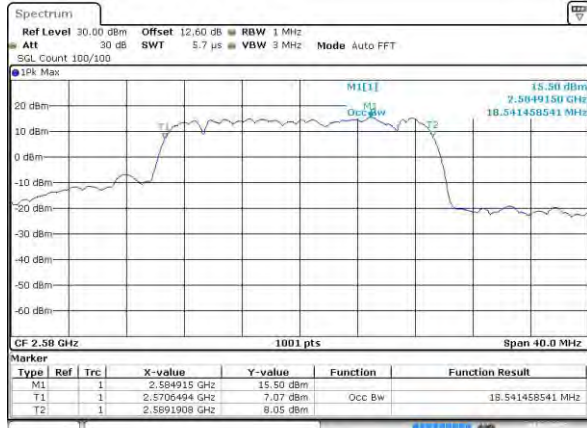
Highest Channel / 15MHz / 16QAM





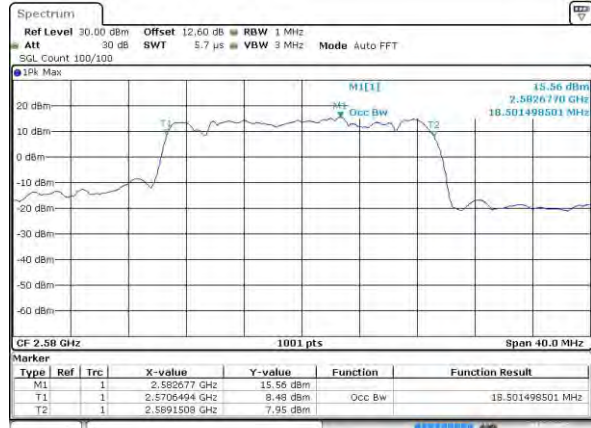
LTE Band 38

Lowest Channel / 20MHz / QPSK



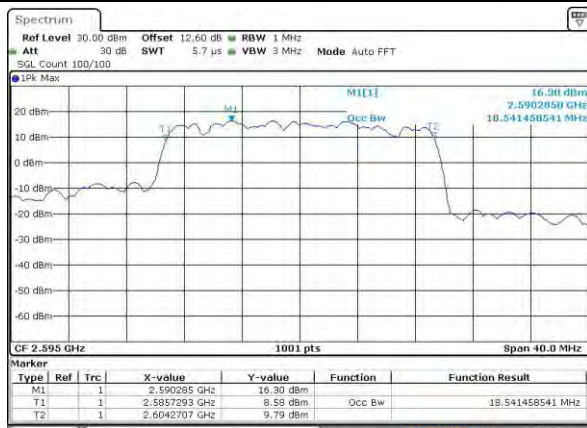
Date: 1 AUG 2015 09:35:55

Lowest Channel / 20MHz / 16QAM



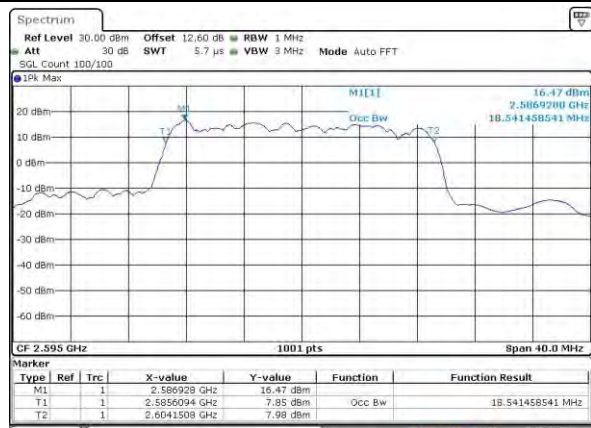
Date: 1 AUG 2015 09:36:06

Middle Channel / 20MHz / QPSK



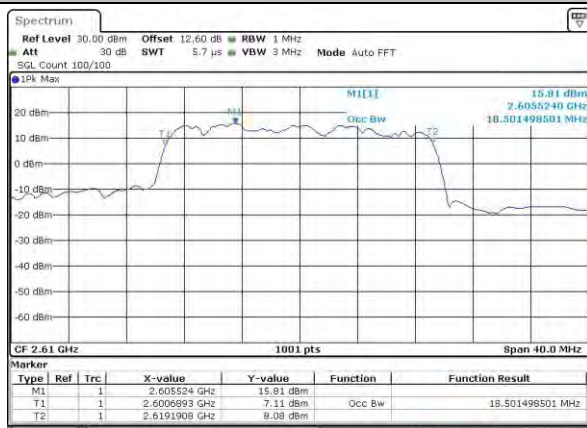
Date: 1 AUG 2015 09:43:06

Middle Channel / 20MHz / 16QAM



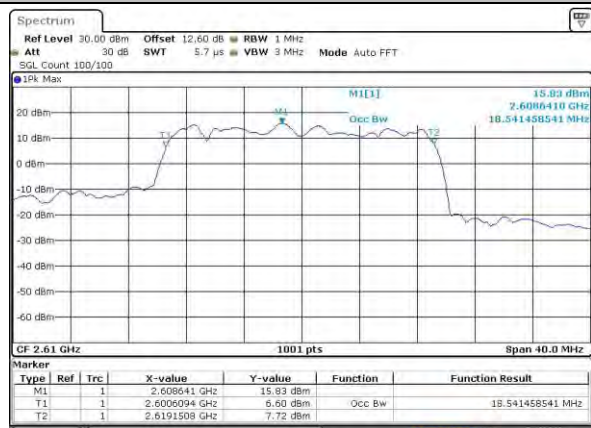
Date: 1 AUG 2015 09:43:16

Highest Channel / 20MHz / QPSK



Date: 1 AUG 2015 09:45:37

Highest Channel / 20MHz / 16QAM



Date: 1 AUG 2015 09:45:48

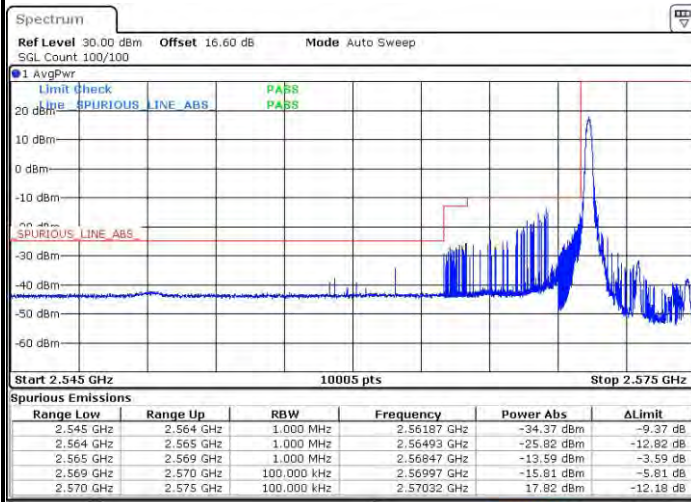


Conducted Band Edge

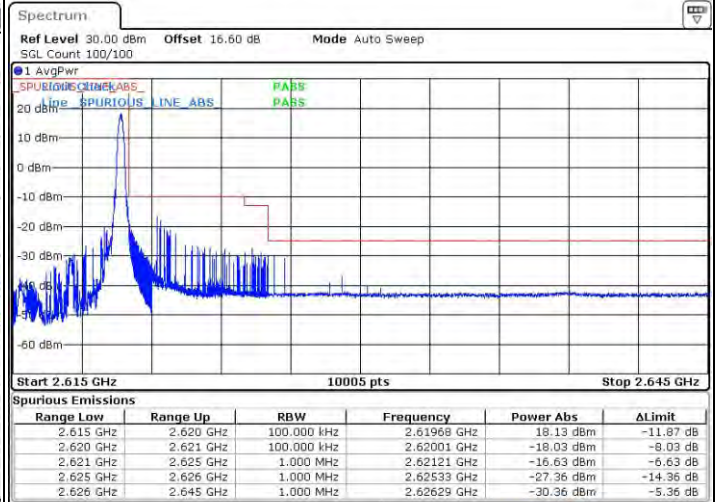


LTE Band 38 / 5MHz / QPSK

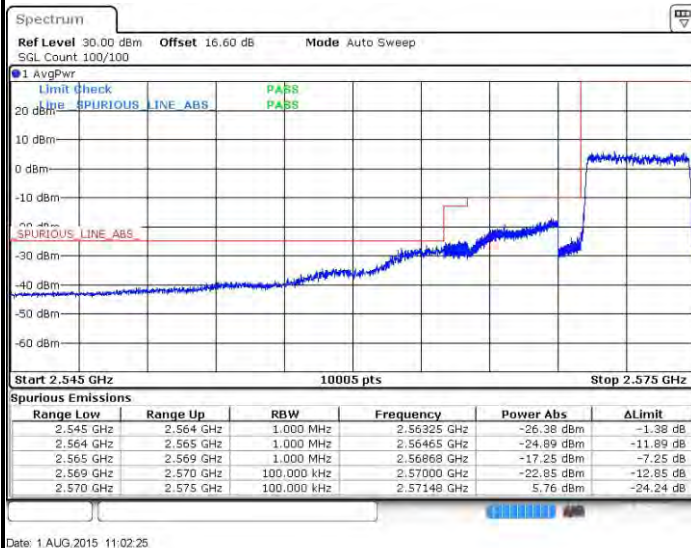
Lowest Band Edge / 1 RB



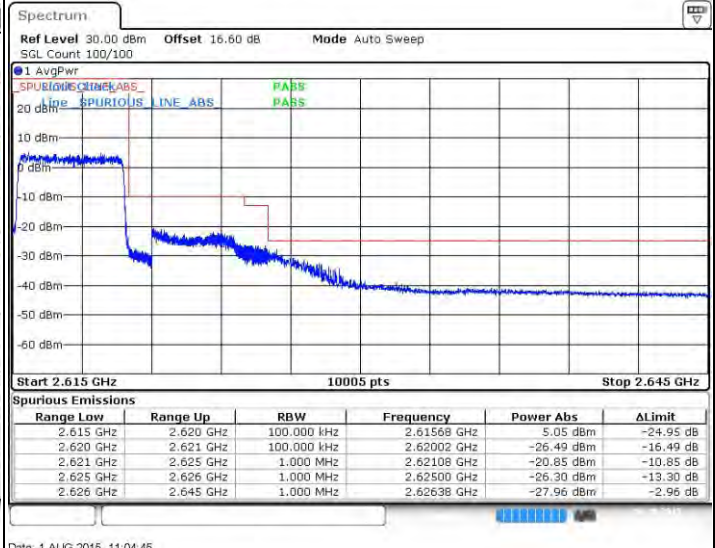
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



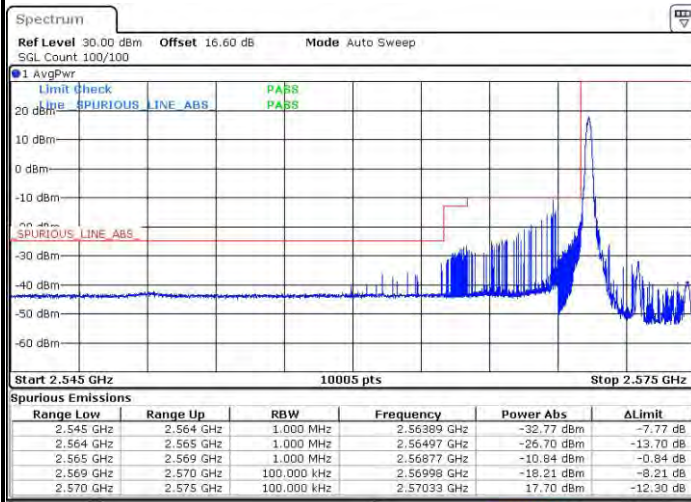
Highest Band Edge / Full RB



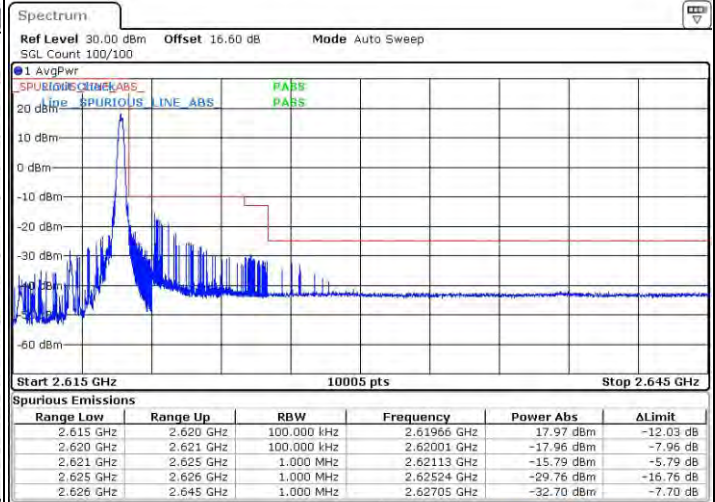


LTE Band 38 / 5MHz / 16QAM

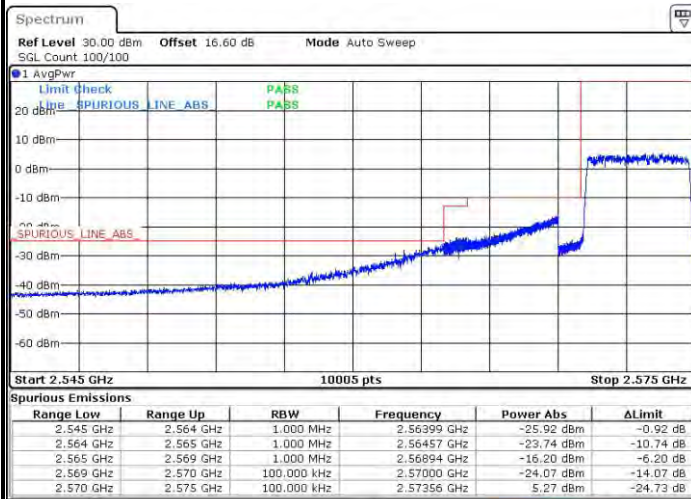
Lowest Band Edge / 1RB



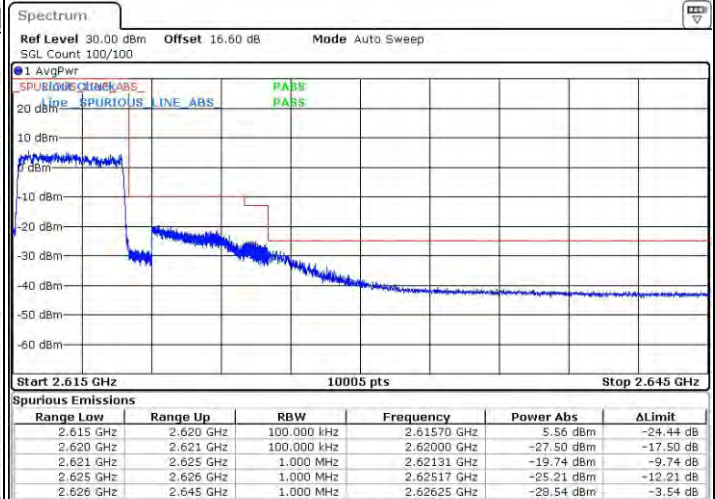
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



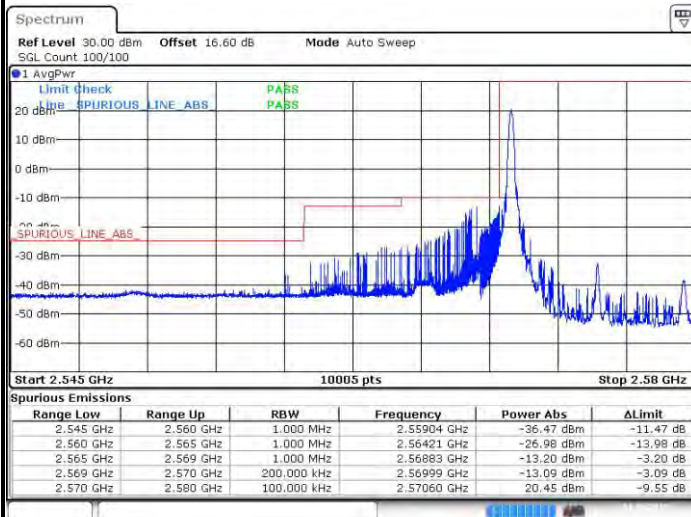
Highest Band Edge / Full RB



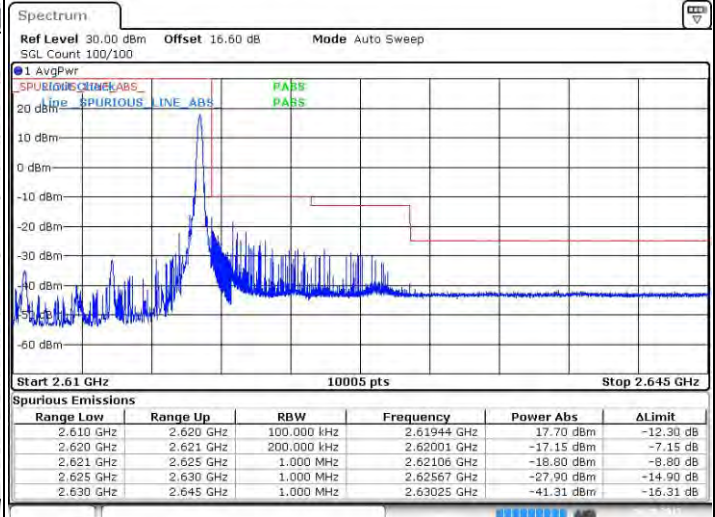


LTE Band 38 / 10MHz / QPSK

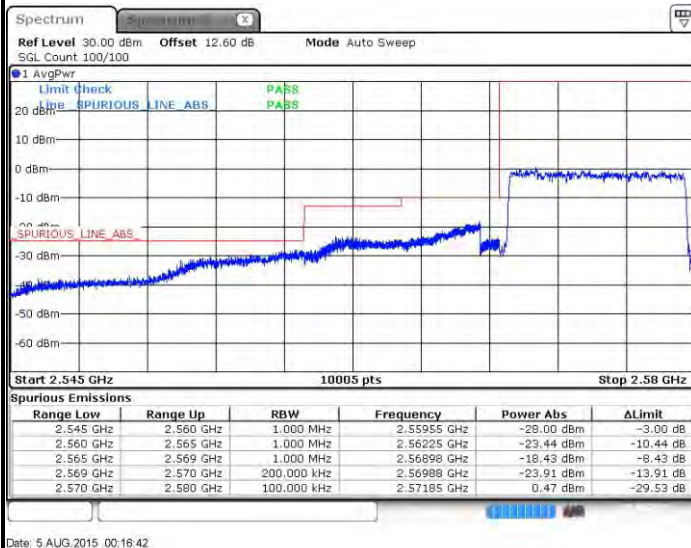
Lowest Band Edge / 1 RB



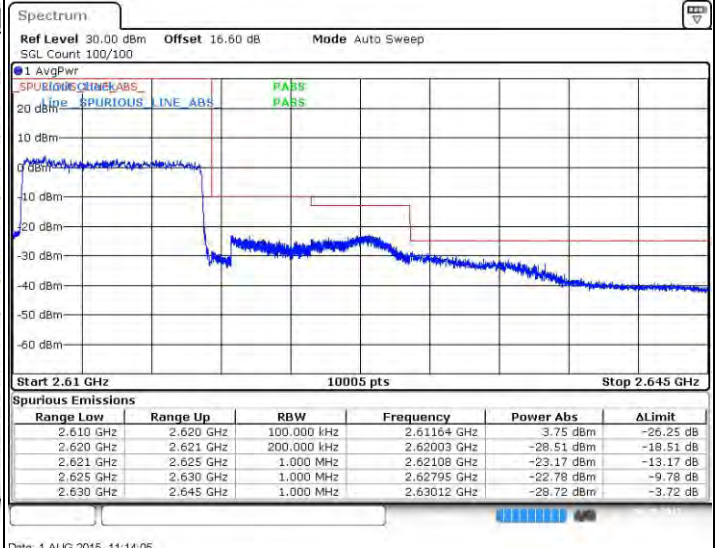
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



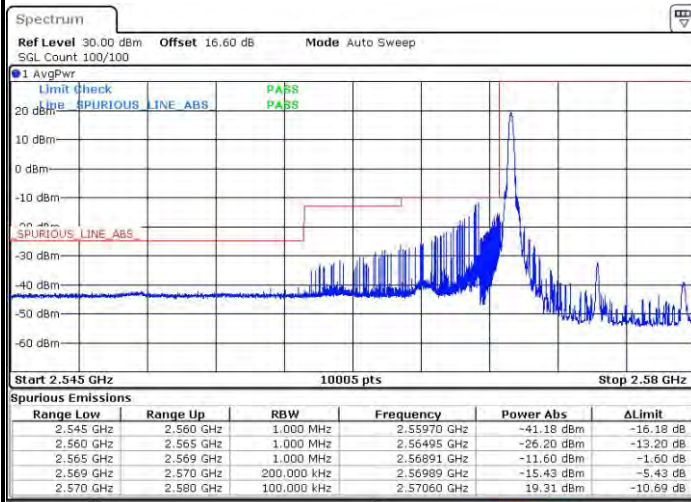
Highest Band Edge / Full RB



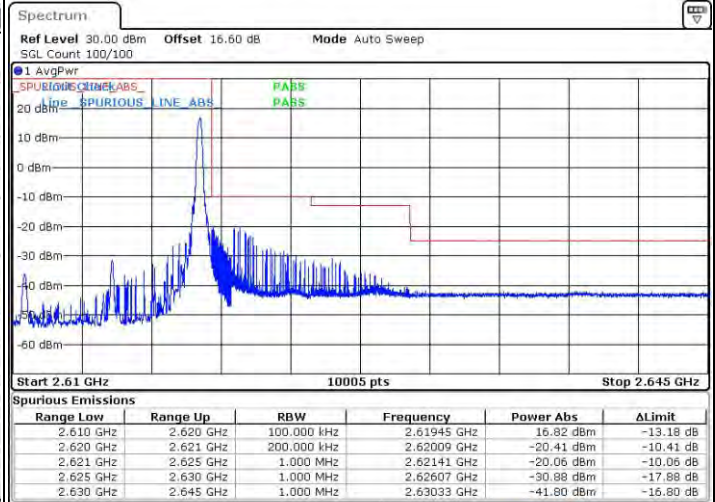


LTE Band 38 / 10MHz / 16QAM

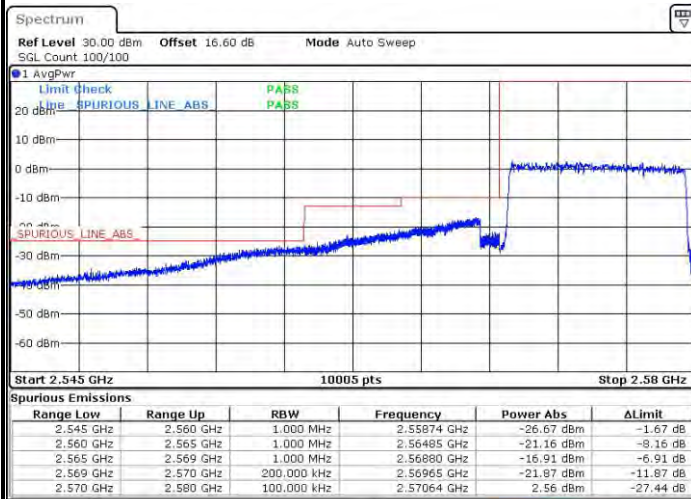
Lowest Band Edge / 1 RB



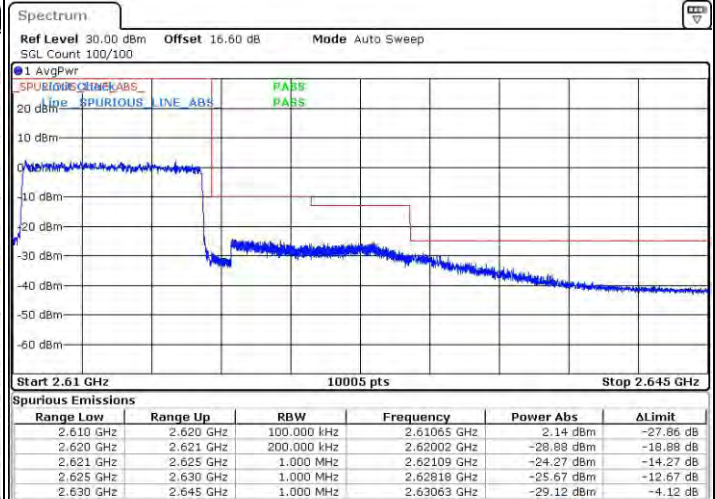
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



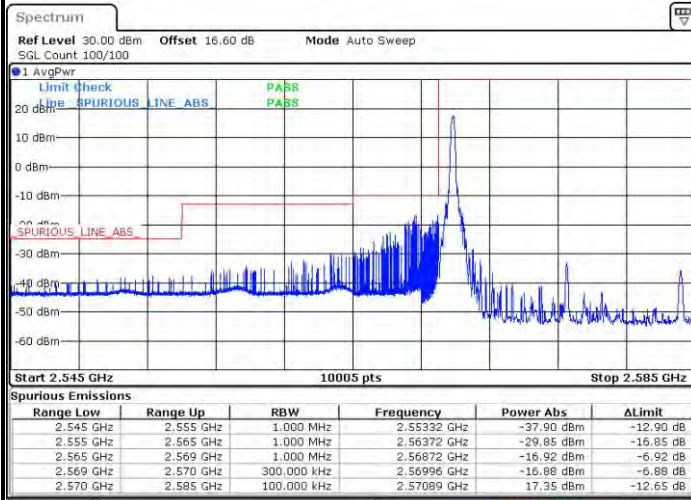
Highest Band Edge / Full RB



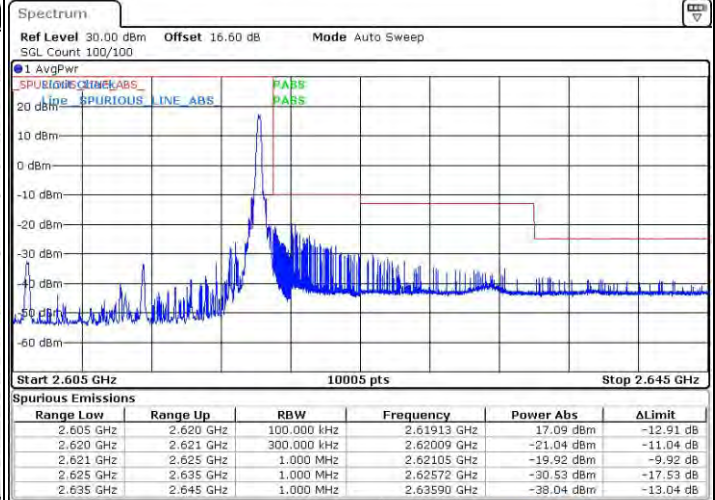


LTE Band 38 / 15MHz / QPSK

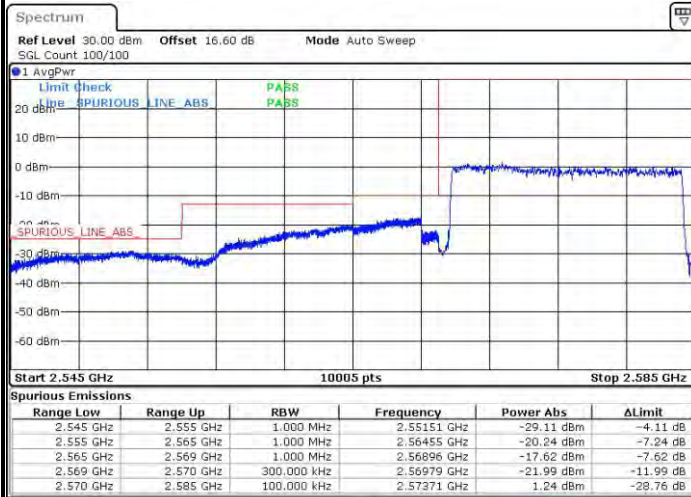
Lowest Band Edge / 1 RB



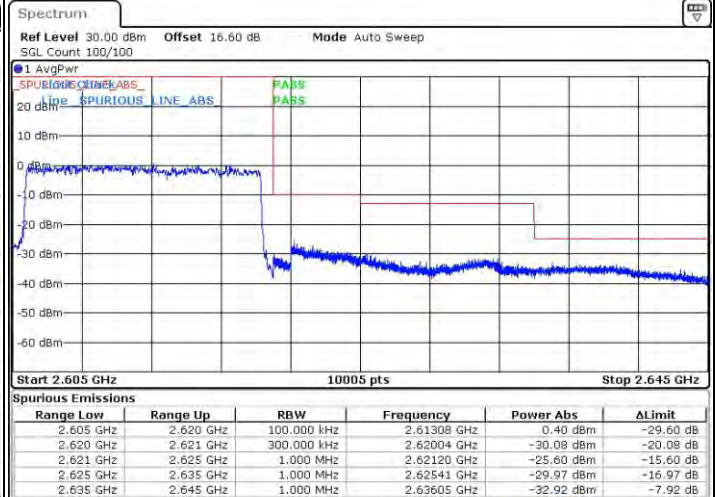
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



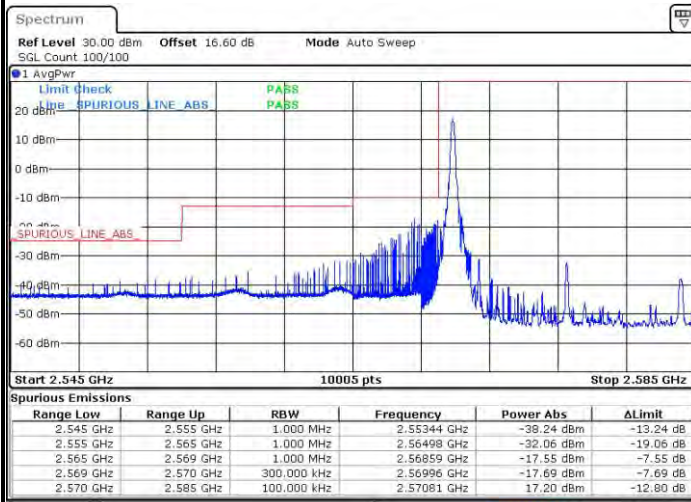
Highest Band Edge / Full RB



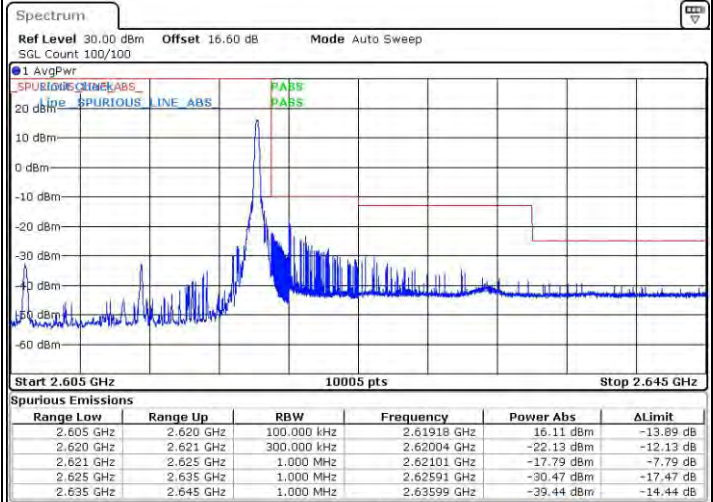


LTE Band 38 / 15MHz / 16QAM

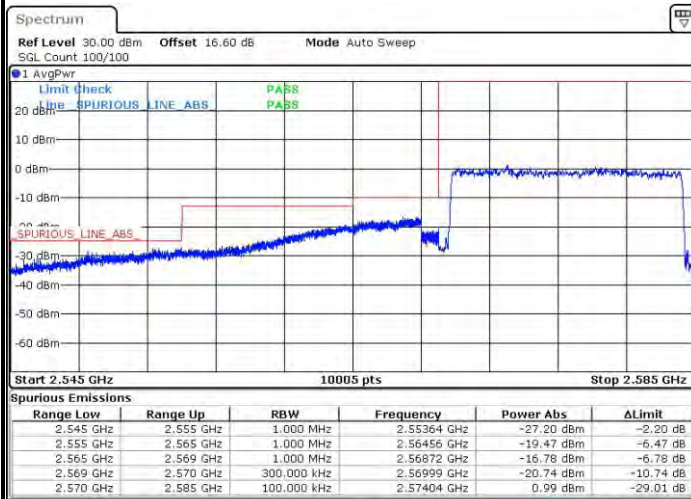
Lowest Band Edge / 1 RB



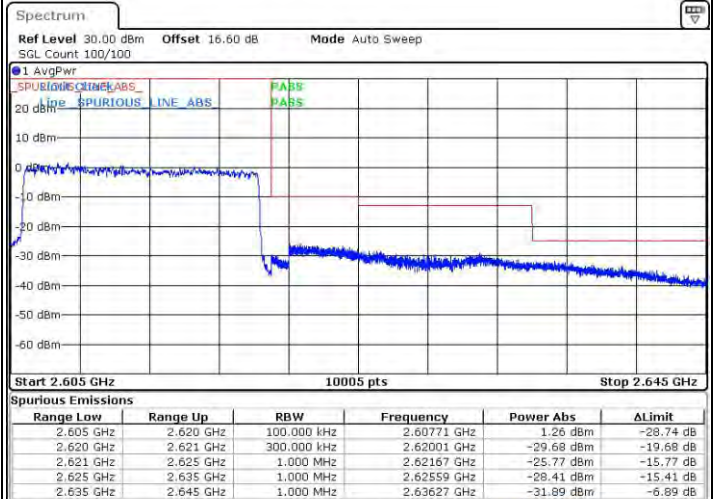
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



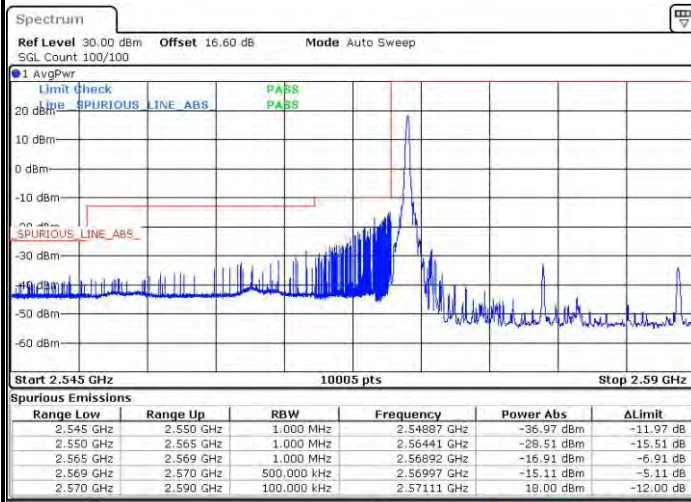
Highest Band Edge / Full RB



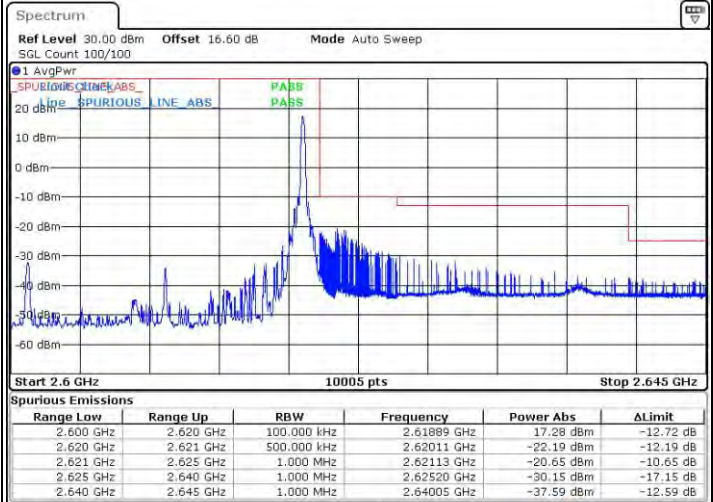


LTE Band 38 / 20MHz / QPSK

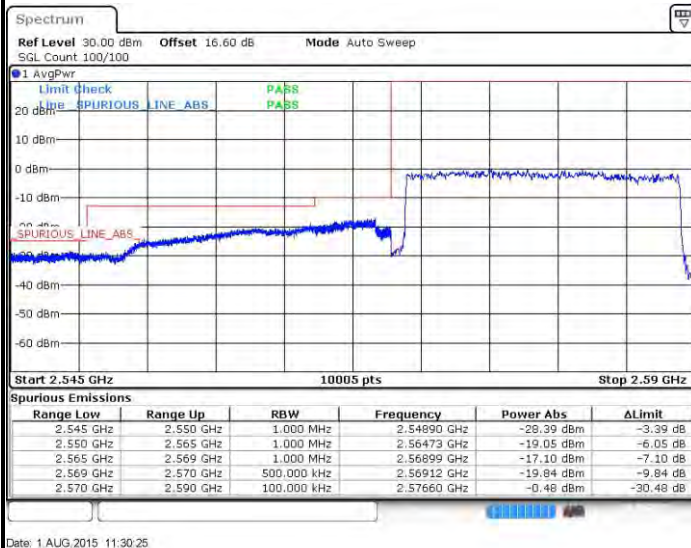
Lowest Band Edge / 1 RB



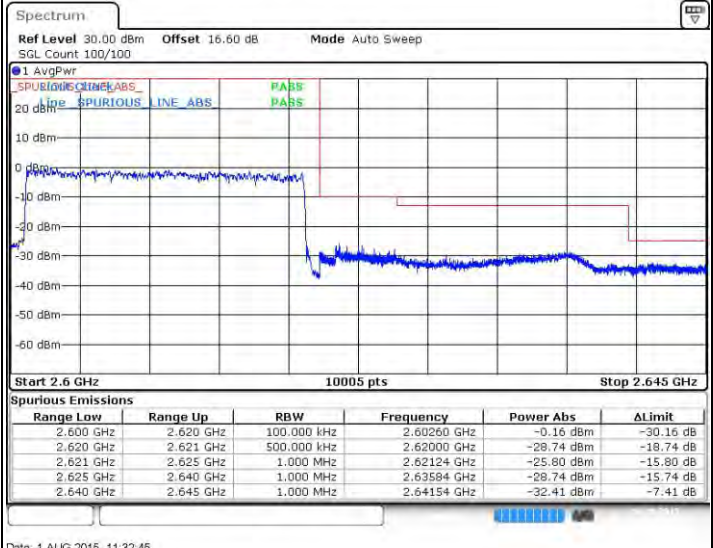
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



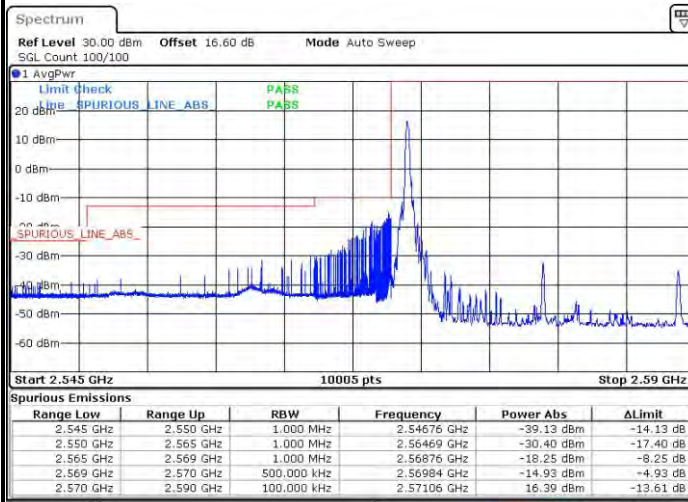
Highest Band Edge / Full RB



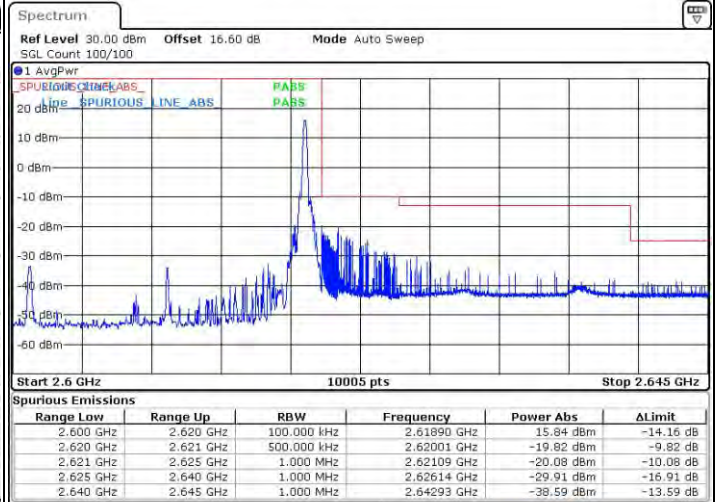


LTE Band 38 / 20MHz / 16QAM

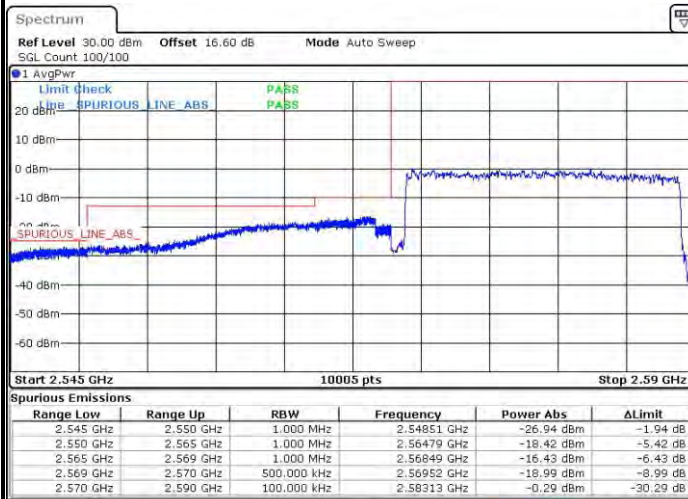
Lowest Band Edge / 1 RB



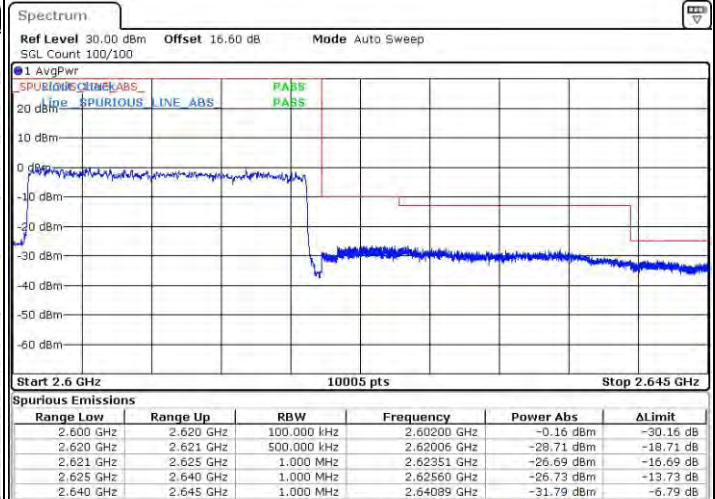
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB



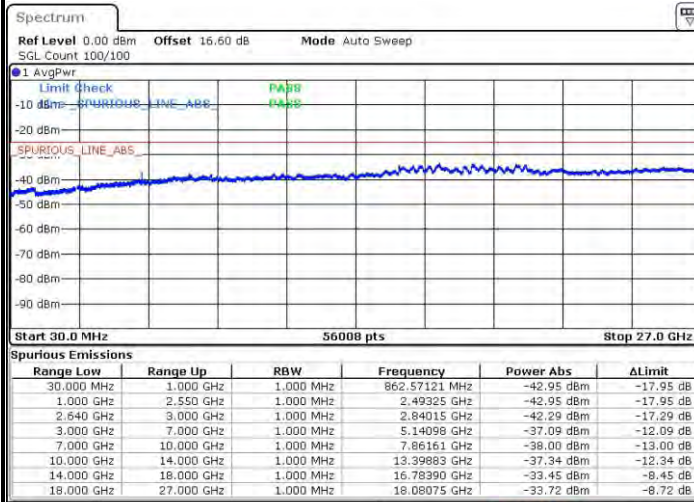


Conducted Spurious Emission



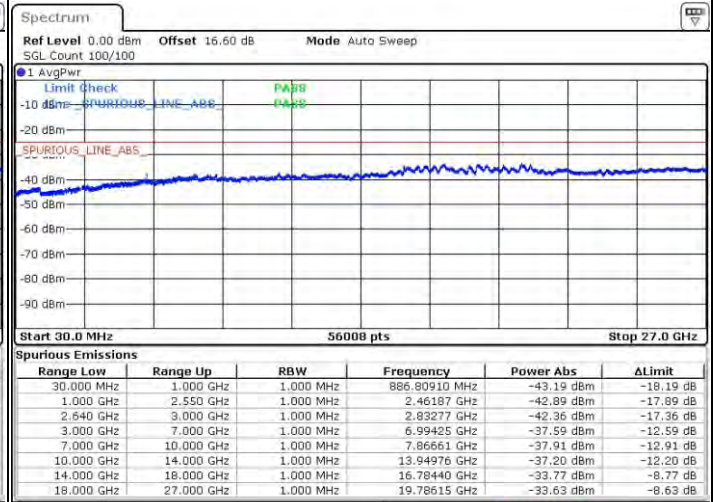
LTE Band 38 / 5MHz

Lowest Channel / QPSK



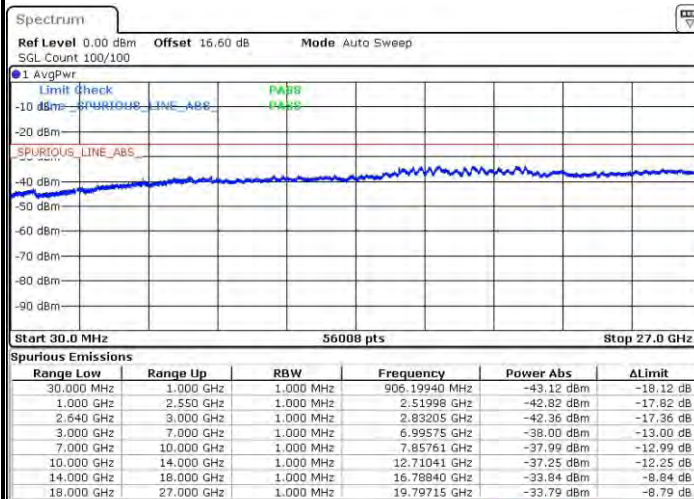
Date: 1.AUG.2015 11:45:02

Lowest Channel / 16QAM



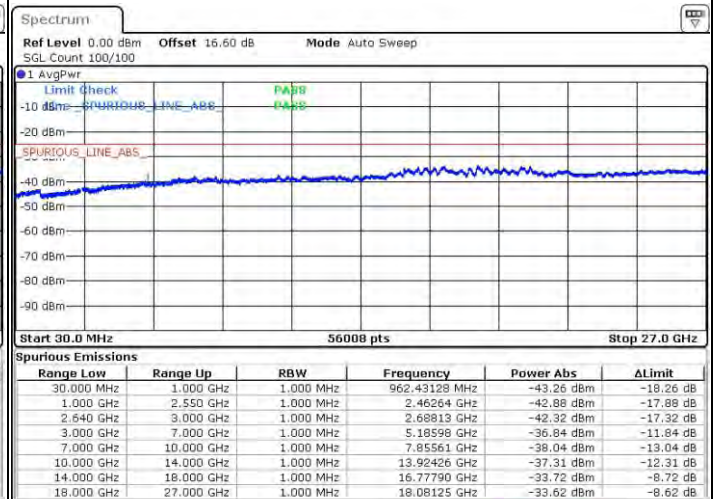
Date: 1.AUG.2015 11:45:56

Middle Channel / QPSK



Date: 1.AUG.2015 11:46:51

Middle Channel / 16QAM

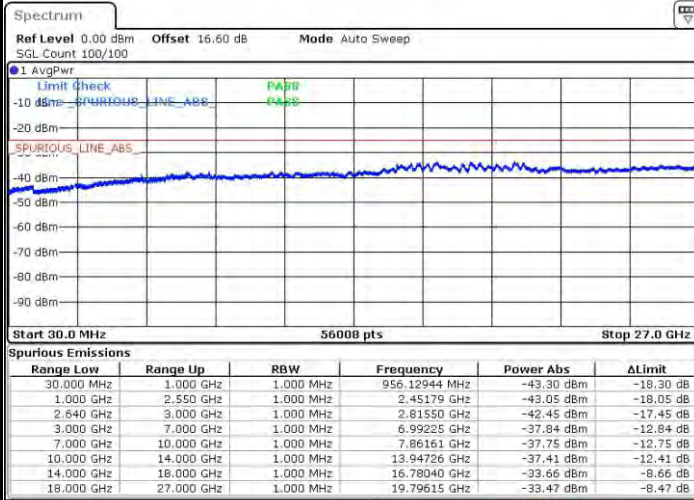


Date: 1.AUG.2015 11:47:46



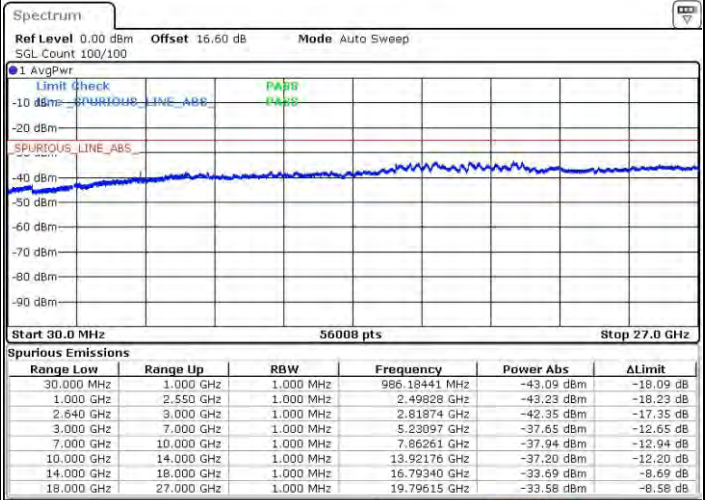
LTE Band 38 / 5MHz

Highest Channel / QPSK



Date: 1.AUG.2015 11:48:41

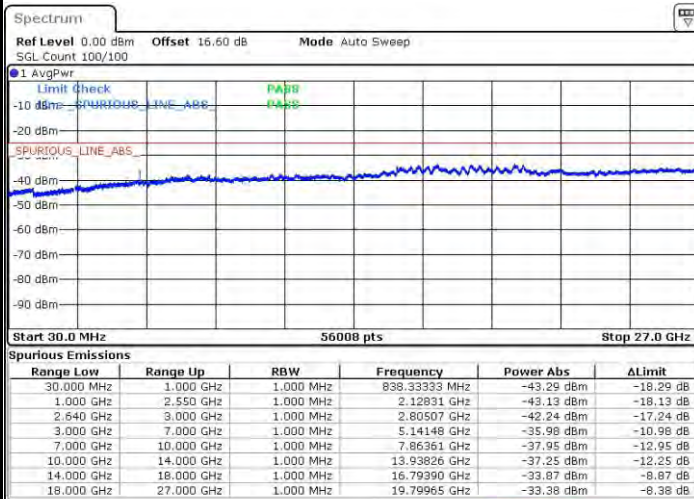
Highest Channel / 16QAM



Date: 1.AUG.2015 11:49:36

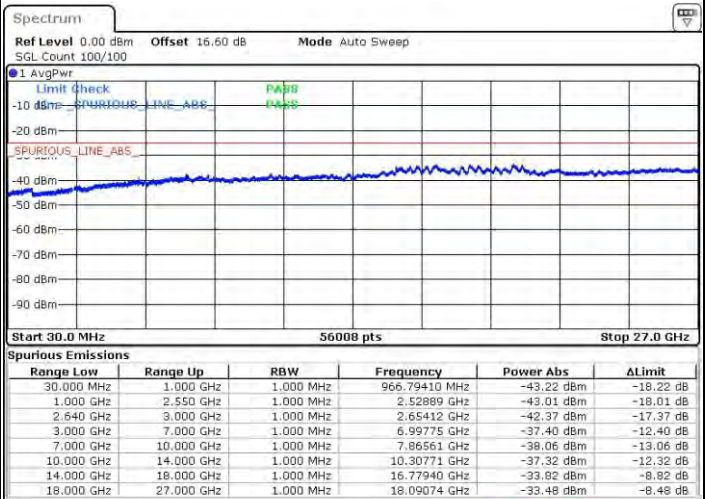
LTE Band 38 / 10MHz

Lowest Channel / QPSK



Date: 1.AUG.2015 11:50:30

Lowest Channel / 16QAM

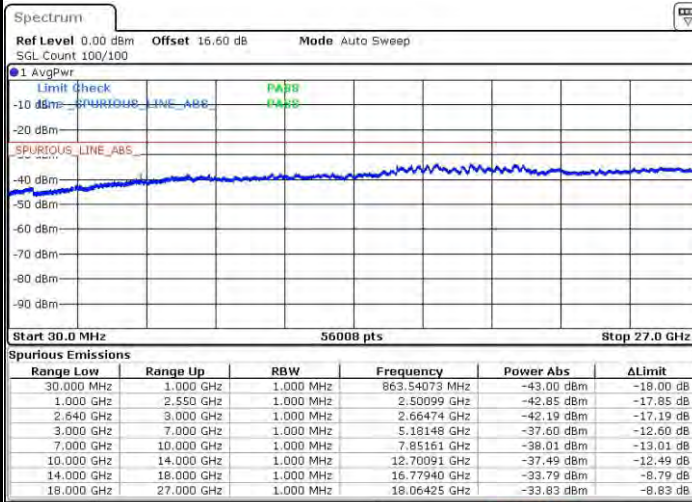


Date: 1.AUG.2015 11:51:25



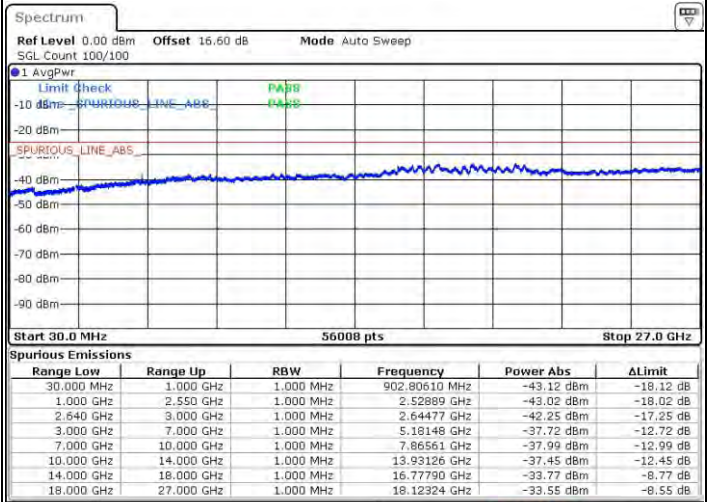
LTE Band 38 / 10MHz

Middle Channel / QPSK



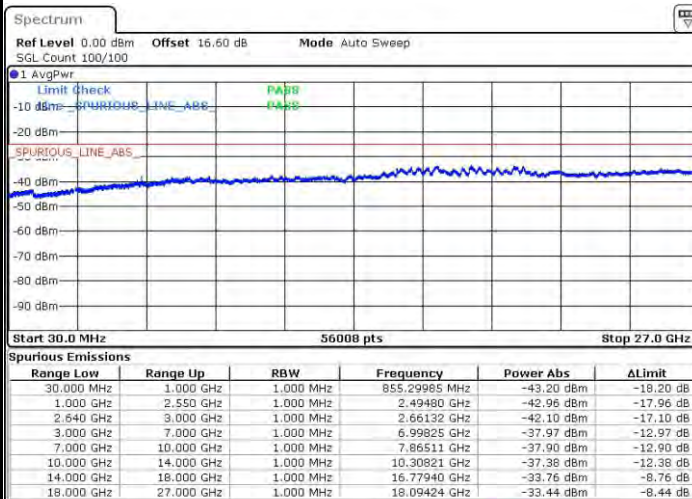
Date: 1.AUG.2015 11:52:20

Middle Channel / 16QAM



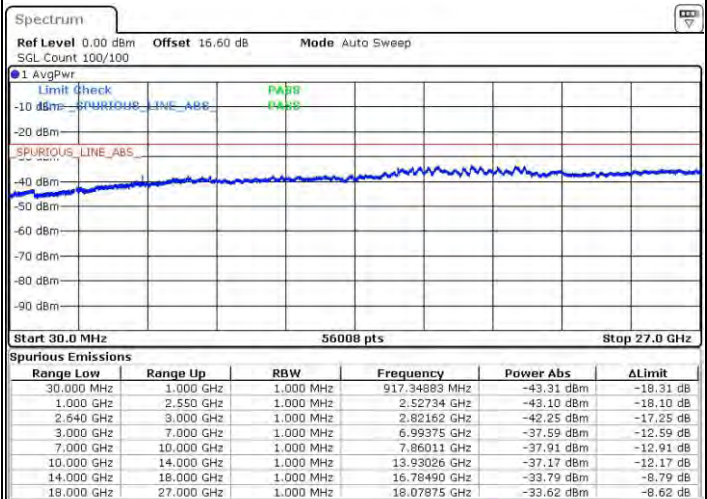
Date: 1.AUG.2015 11:53:15

Highest Channel / QPSK



Date: 1.AUG.2015 11:54:09

Highest Channel / 16QAM

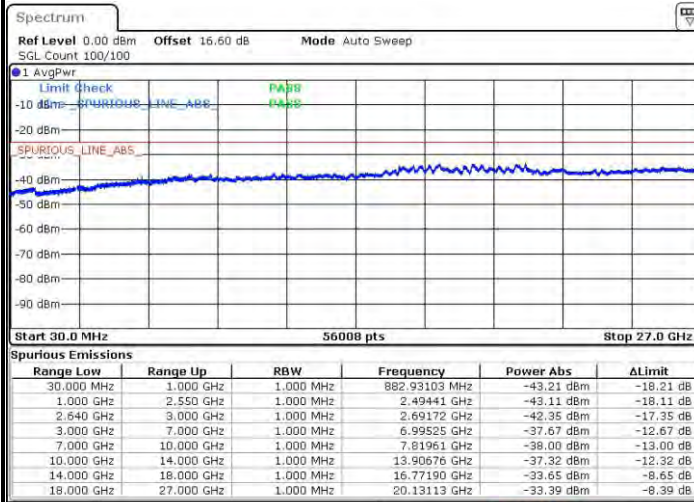


Date: 1.AUG.2015 11:55:04



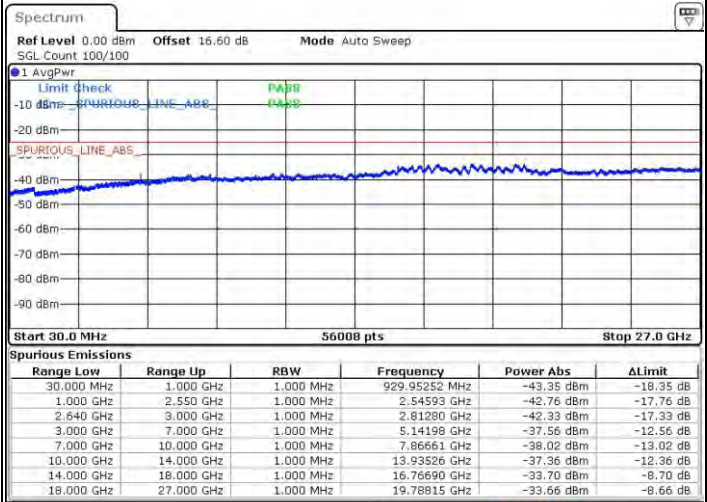
LTE Band 38 / 15MHz

Lowest Channel / QPSK



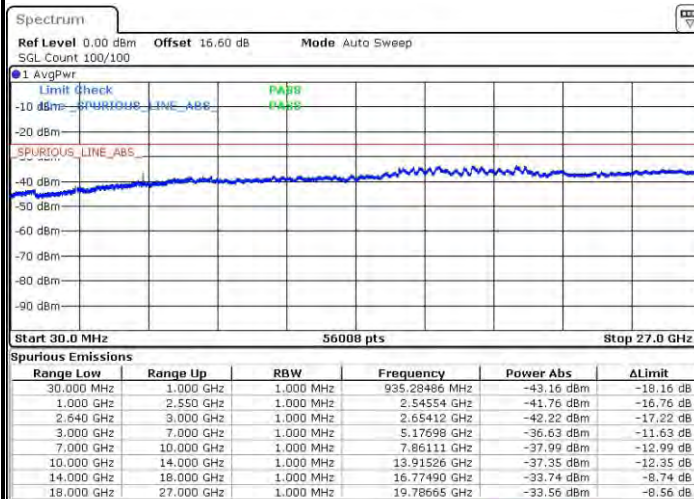
Date: 1.AUG.2015 11:55:59

Lowest Channel / 16QAM



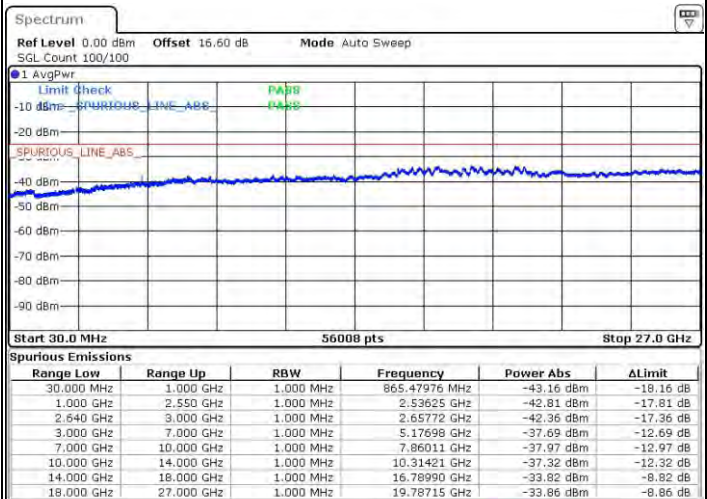
Date: 1.AUG.2015 11:56:53

Middle Channel / QPSK



Date: 1.AUG.2015 11:57:48

Middle Channel / 16QAM

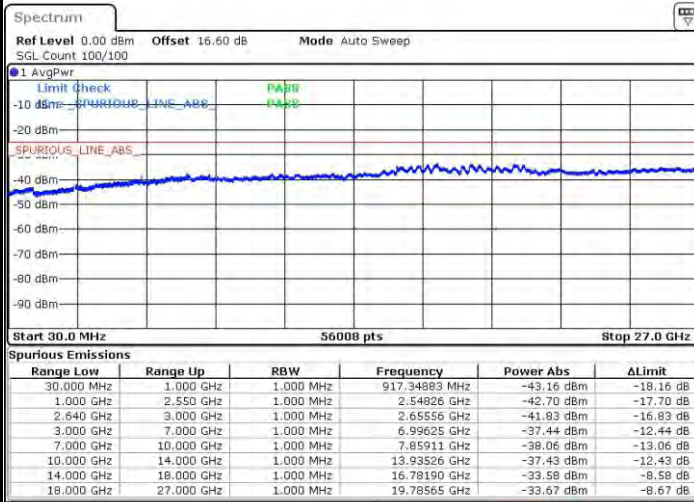


Date: 1.AUG.2015 11:58:43



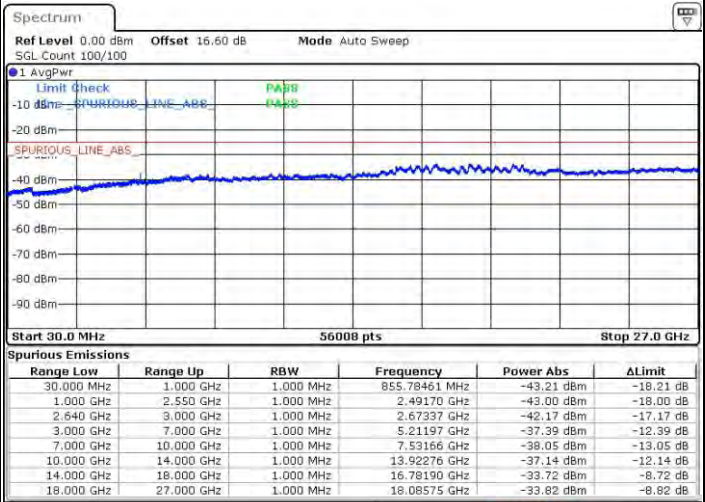
LTE Band 38 / 15MHz

Highest Channel / QPSK



Date: 1.AUG.2015 11:59:37

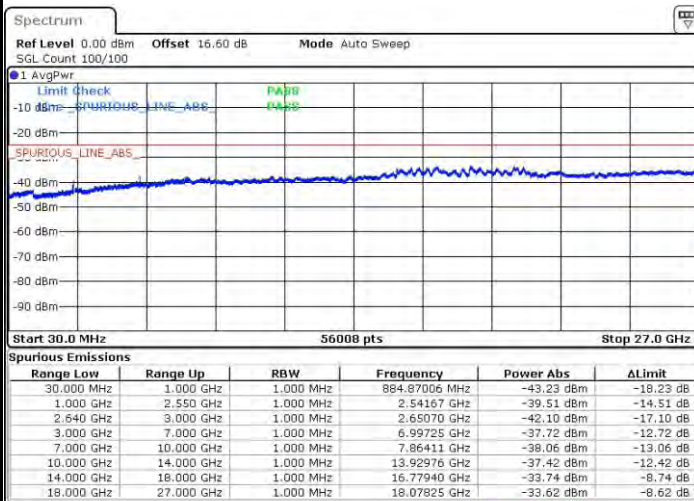
Highest Channel / 16QAM



Date: 1.AUG.2015 12:00:32

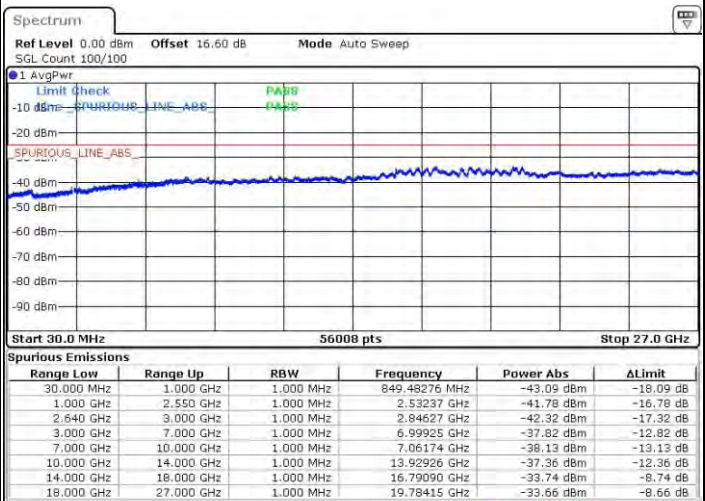
LTE Band 38 / 20MHz

Lowest Channel / QPSK



Date: 1.AUG.2015 12:01:27

Lowest Channel / 16QAM

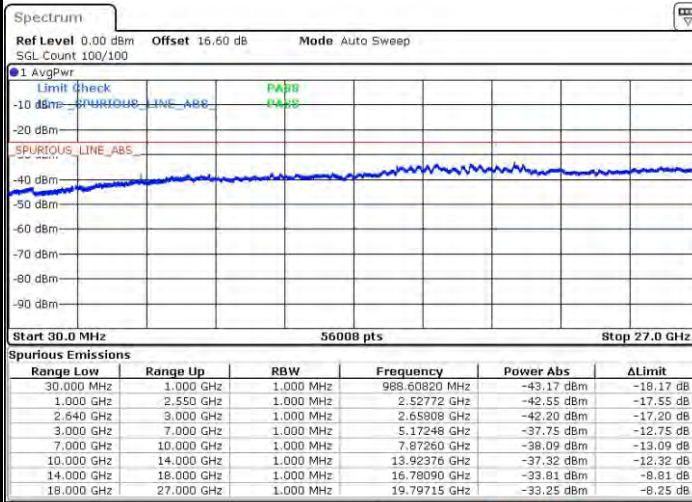


Date: 1.AUG.2015 12:02:22



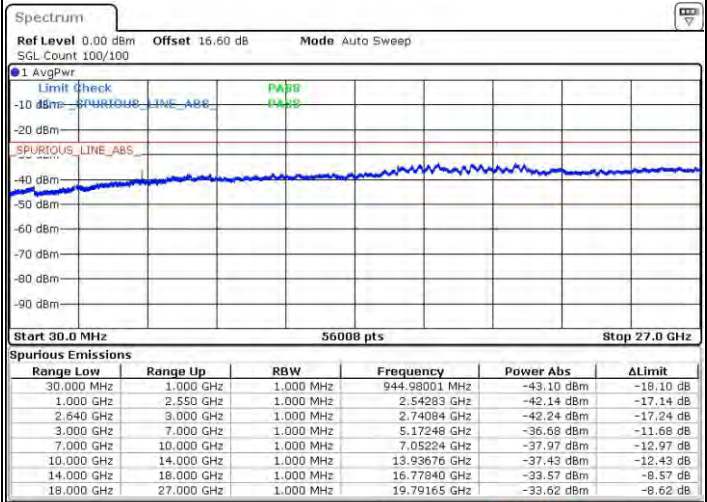
LTE Band 38 / 20MHz

Middle Channel / QPSK



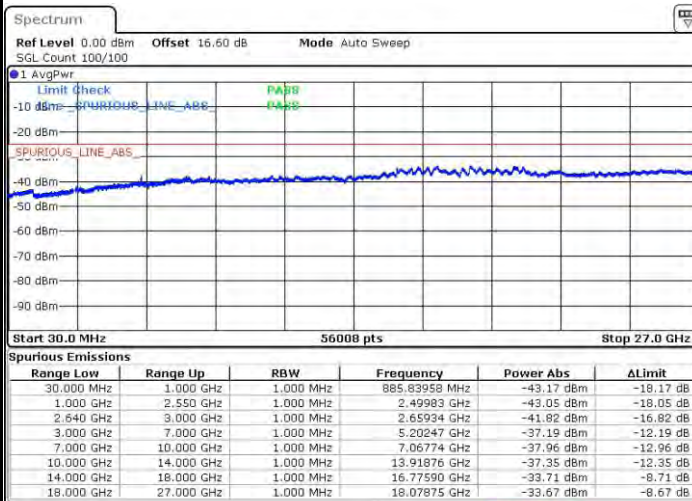
Date: 1.AUG.2015 12:03:16

Middle Channel / 16QAM



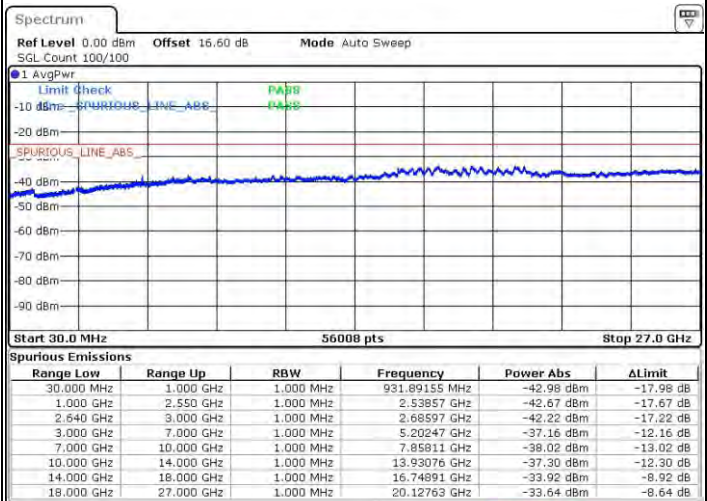
Date: 1.AUG.2015 12:04:11

Highest Channel / QPSK



Date: 1.AUG.2015 12:05:06

Highest Channel / 16QAM



Date: 1.AUG.2015 12:06:01

Frequency Stability

Test Conditions		LTE Band 38 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0002	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0017	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0011	
0	Normal Voltage	0.0018	
-10	Normal Voltage	0.0079	
-20	Normal Voltage	0.0001	
-30	Normal Voltage	0.0009	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0011	

Note:

1. Normal Voltage = 4.0V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.35 V
2. The frequency fundamental emissions stay within the authorized frequency block.