

Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0002	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0019	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0071	
0	Normal Voltage	0.0008	
-10	Normal Voltage	0.0014	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0008	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0016	

Note:

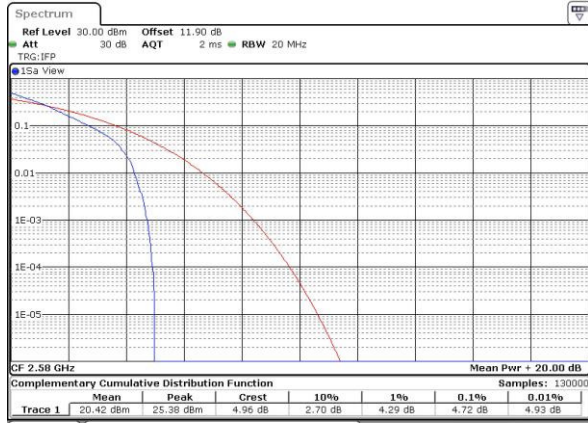
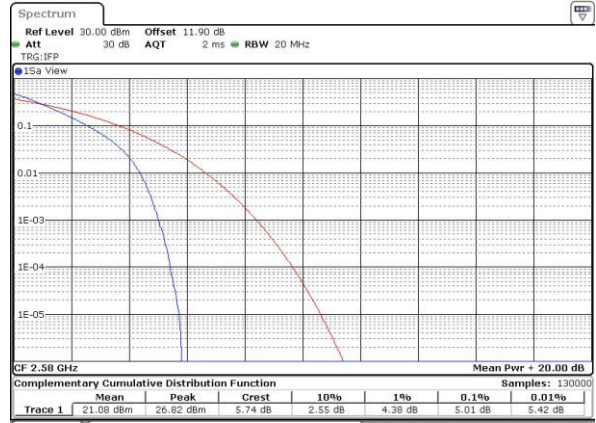
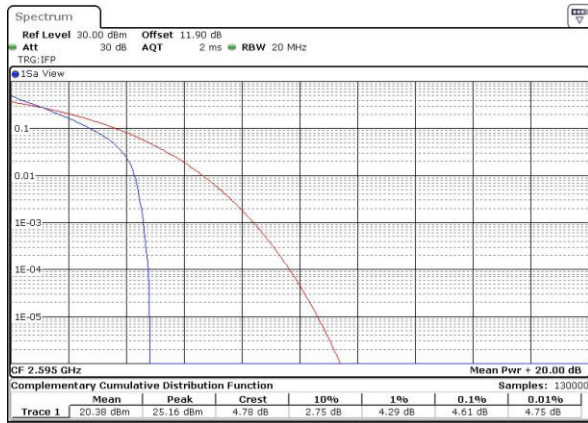
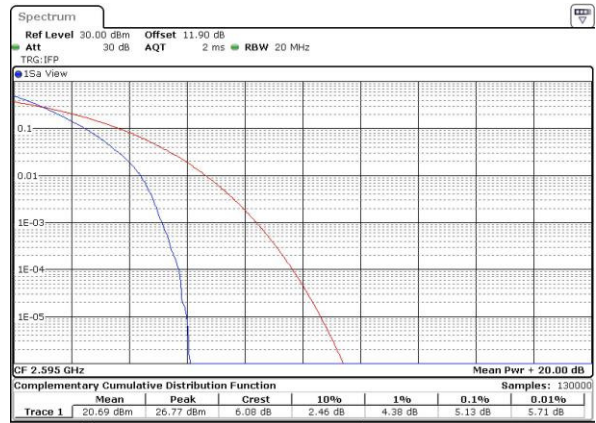
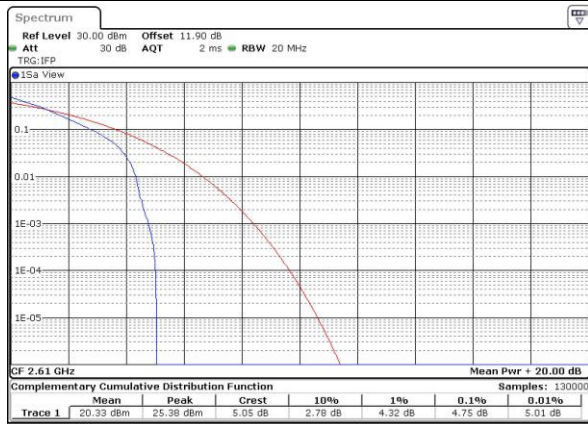
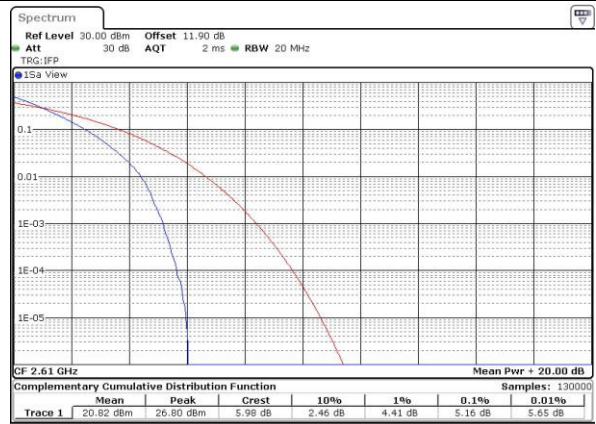
1. Normal Voltage =3.9 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

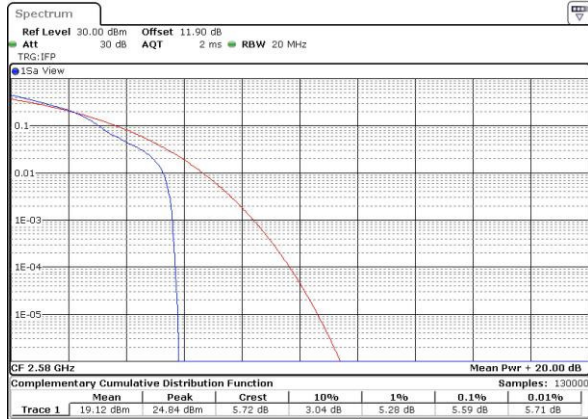


LTE Band 38

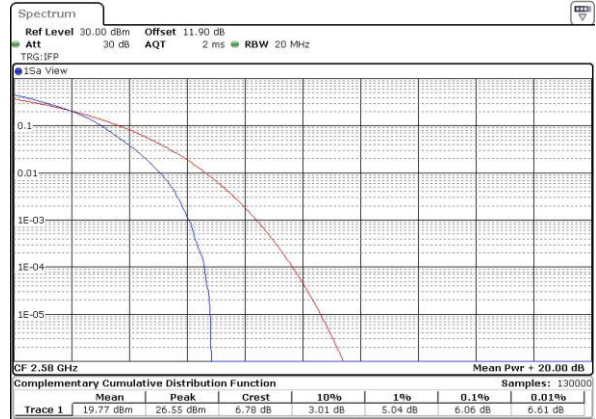
Peak-to-Average Ratio

Mode	LTE Band 38 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.72	5.01	5.59	6.06	PASS
Middle CH	4.61	5.13	5.65	6.17	
Highest CH	4.75	5.16	5.42	6.17	

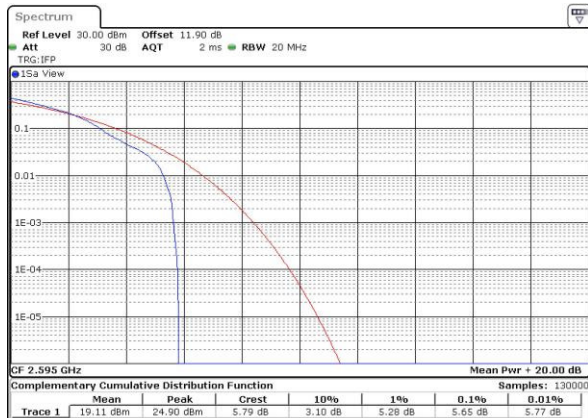
LTE Band 38 / 20MHz / QPSK
Lowest Channel / 1RB

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


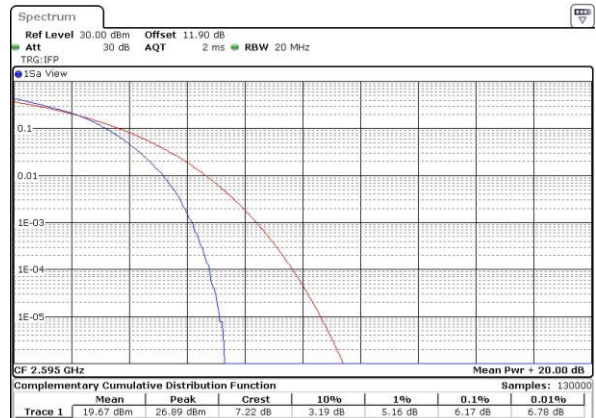
Date: 22 FEB 2017 01:15:08

Lowest Channel / Full RB


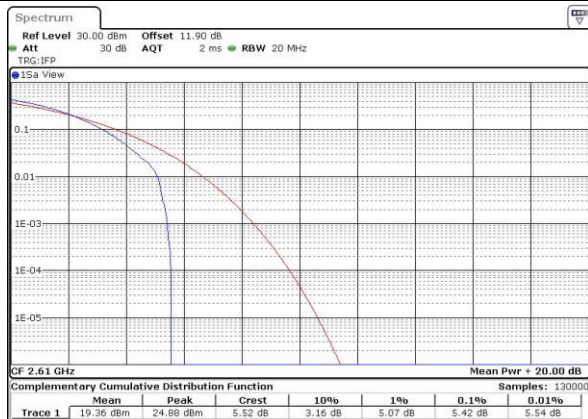
Date: 22 FEB 2017 01:15:28

Middle Channel / 1RB


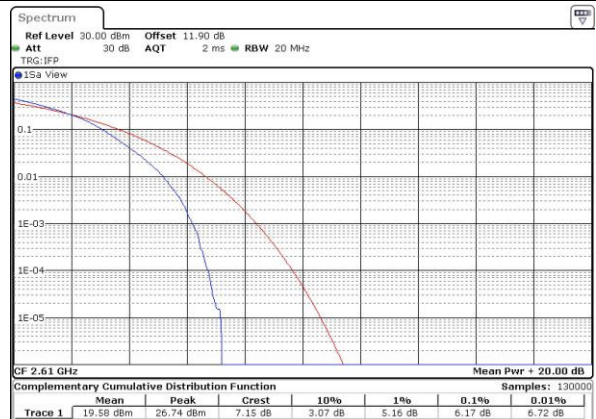
Date: 22 FEB 2017 01:16:45

Middle Channel / Full RB


Date: 22 FEB 2017 01:16:27

Highest Channel / 1RB


Date: 22 FEB 2017 01:17:43

Highest Channel / Full RB


Date: 22 FEB 2017 01:18:01

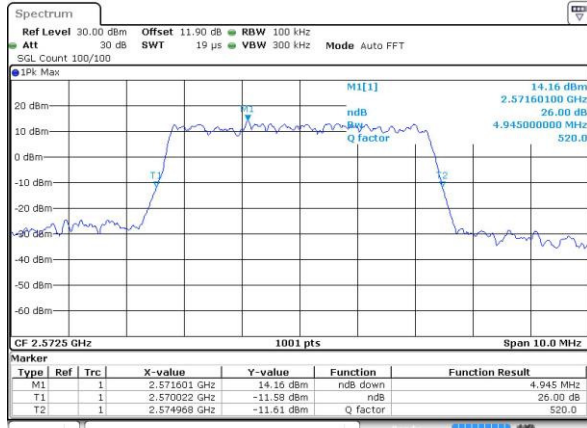
**26dB Bandwidth**

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	-	-	-	-	4.95	4.95	9.71	9.63	14.12	14.18	20.14	20.06
Middle CH	-	-	-	-	4.93	5.03	9.73	9.71	14.33	14.21	20.22	20.14
Highest CH	-	-	-	-	4.98	4.85	9.75	9.75	14.21	14.42	20.10	20.26

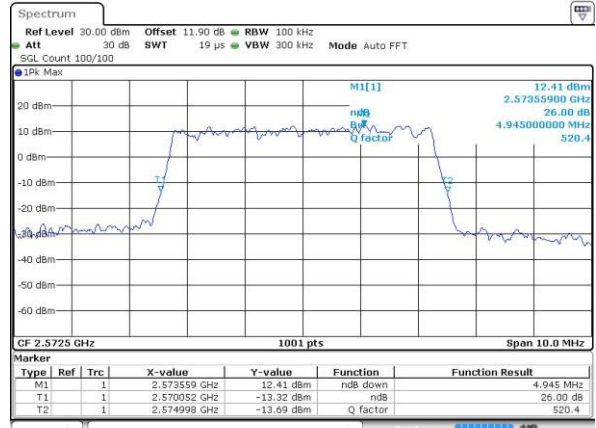


LTE Band 38

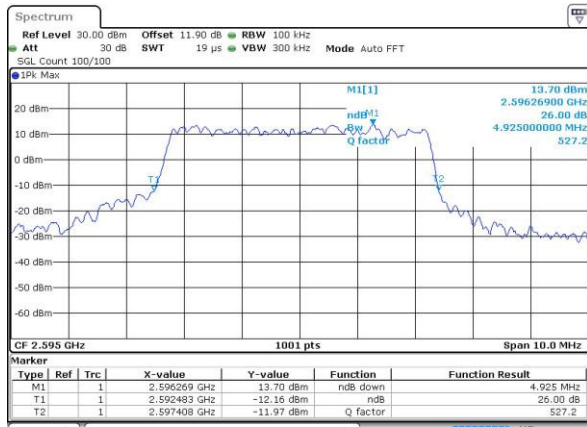
Lowest Channel / 5MHz / QPSK



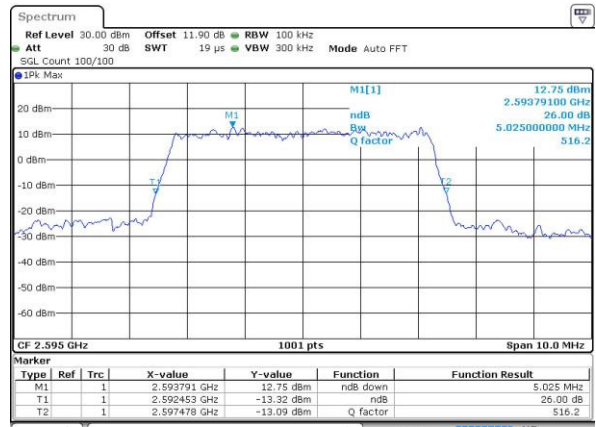
Lowest Channel / 5MHz / 16QAM



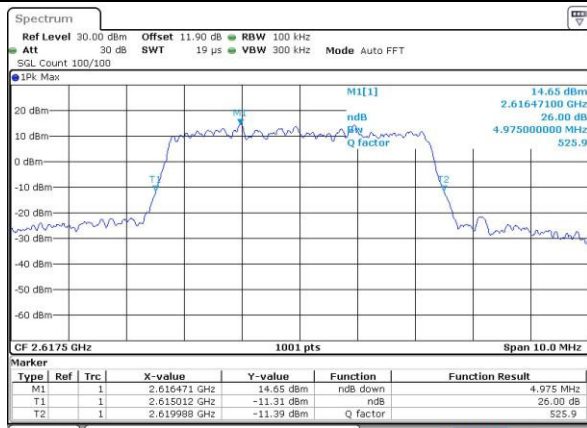
Middle Channel / 5MHz / QPSK



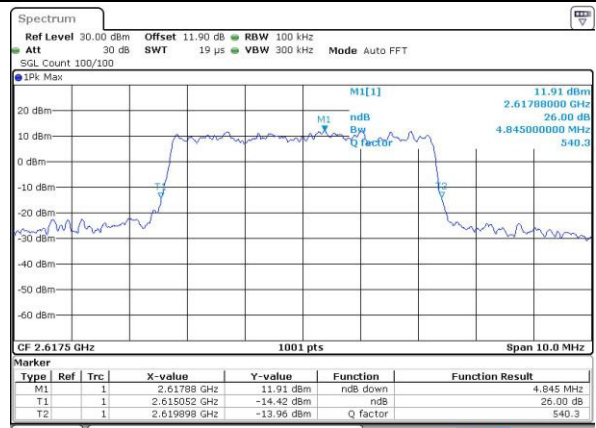
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



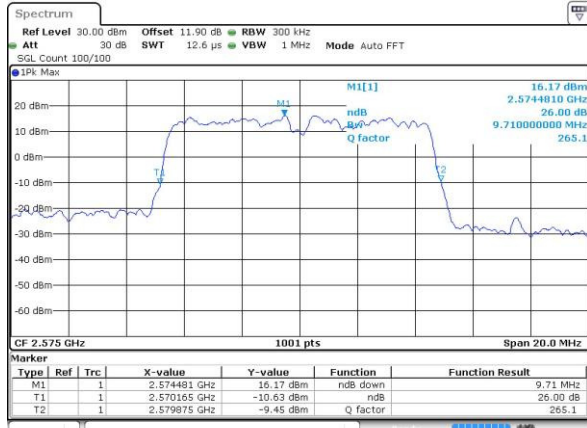
Highest Channel / 5MHz / 16QAM



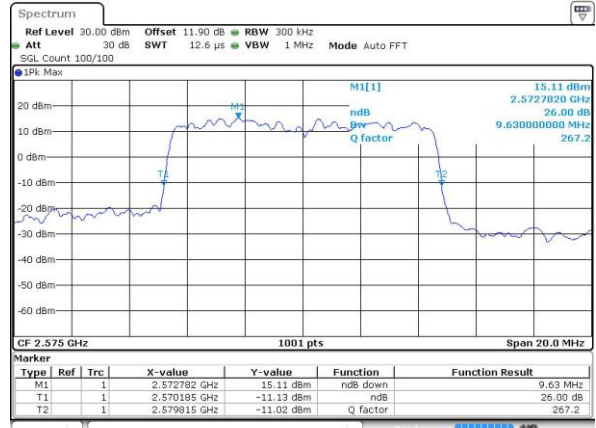


LTE Band 38

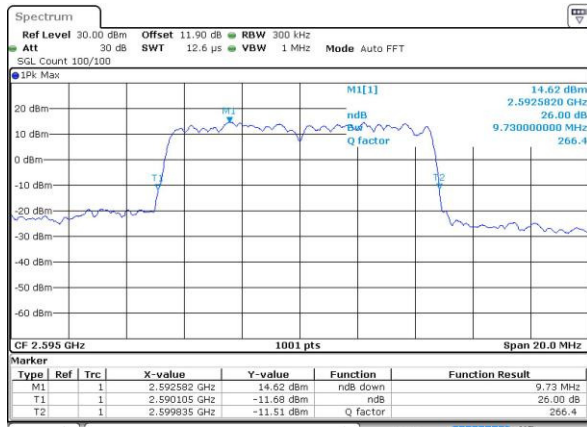
Lowest Channel / 10MHz / QPSK



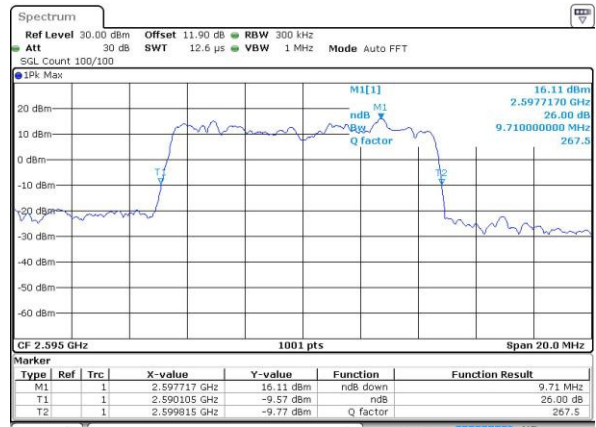
Lowest Channel / 10MHz / 16QAM



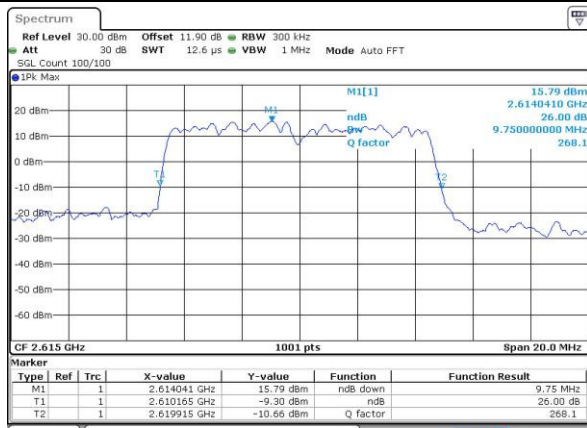
Middle Channel / 10MHz / QPSK



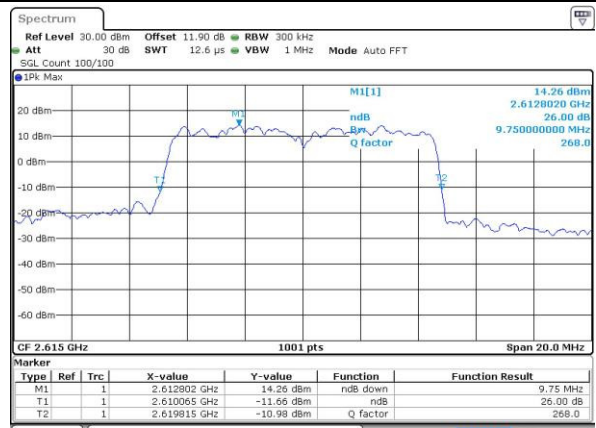
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



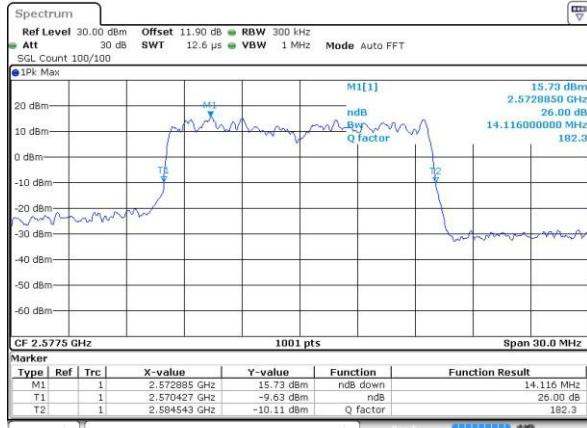
Highest Channel / 10MHz / 16QAM





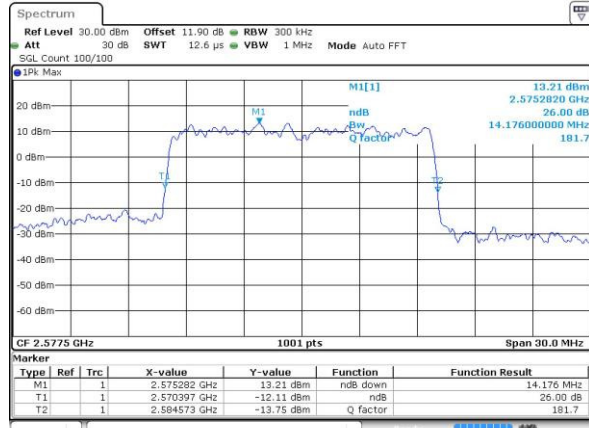
LTE Band 38

Lowest Channel / 15MHz / QPSK



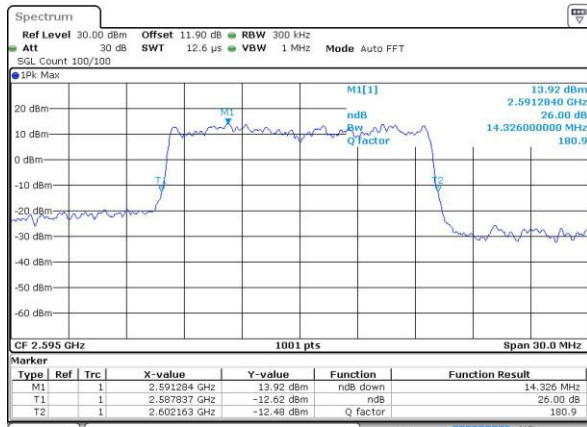
Date: 20 FEB 2017 22:33:28

Lowest Channel / 15MHz / 16QAM



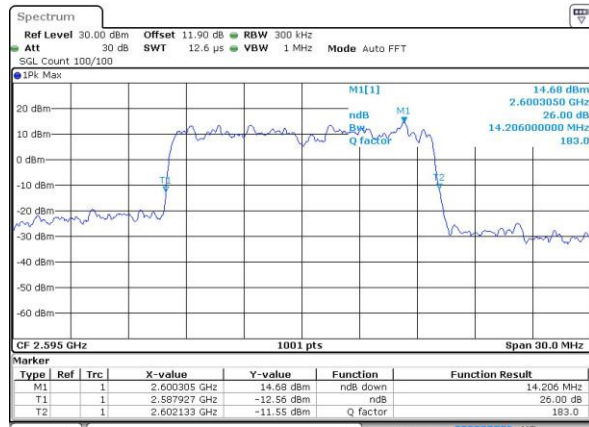
Date: 20 FEB 2017 22:33:38

Middle Channel / 15MHz / QPSK



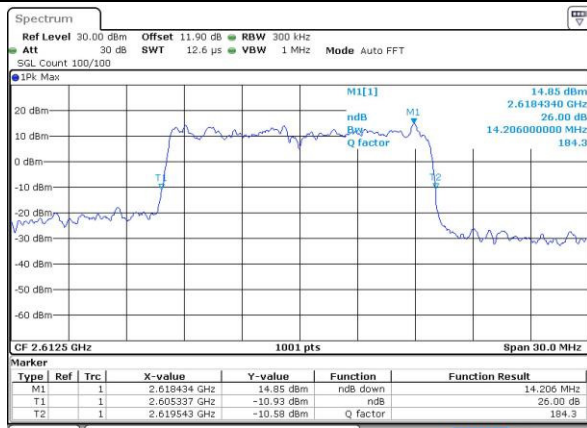
Date: 20 FEB 2017 22:34:09

Middle Channel / 15MHz / 16QAM



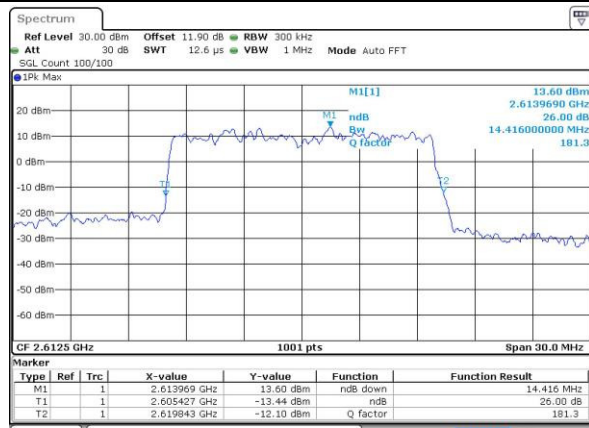
Date: 20 FEB 2017 22:34:19

Highest Channel / 15MHz / QPSK



Date: 20 FEB 2017 22:34:50

Highest Channel / 15MHz / 16QAM

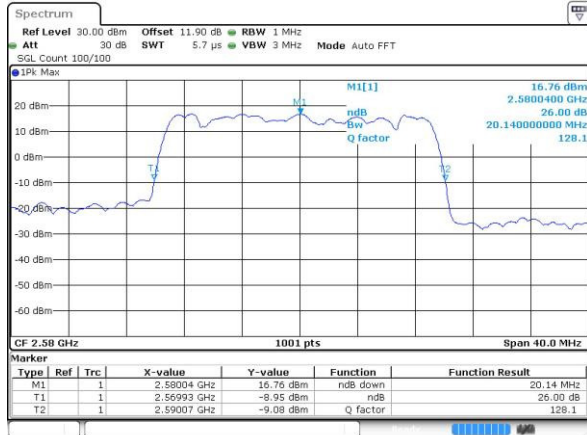


Date: 20 FEB 2017 22:35:01

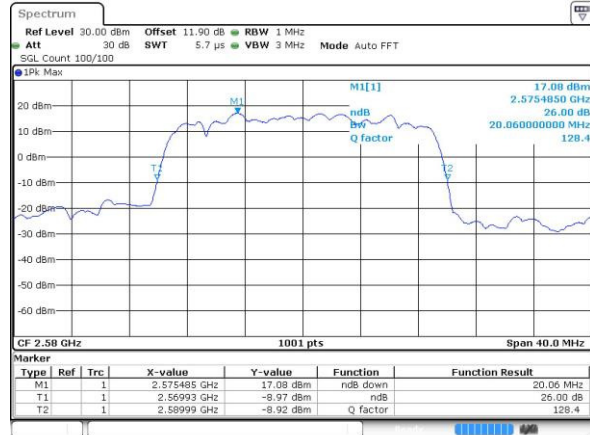


LTE Band 38

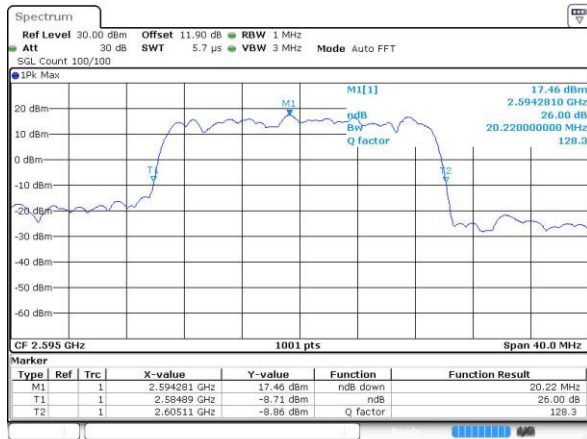
Lowest Channel / 20MHz / QPSK



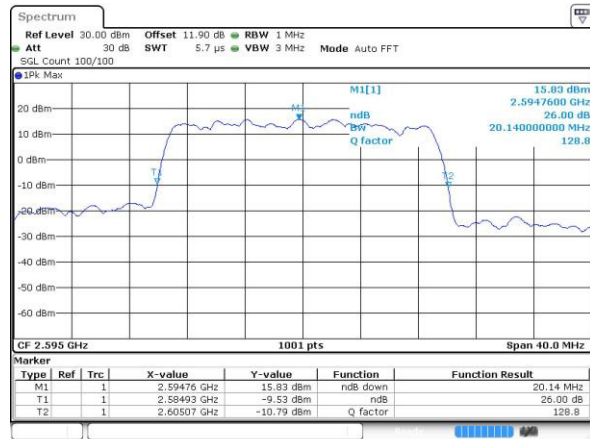
Lowest Channel / 20MHz / 16QAM



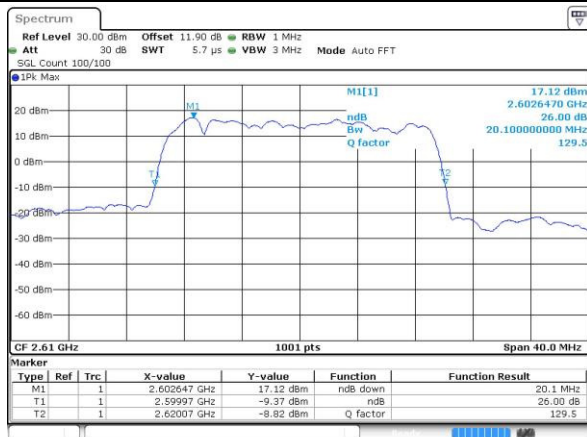
Middle Channel / 20MHz / QPSK



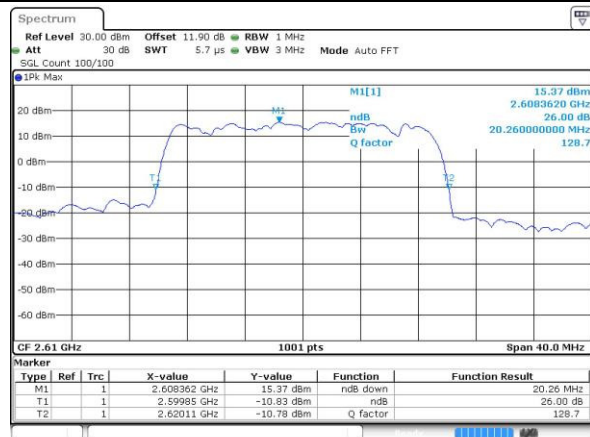
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



Highest Channel / 20MHz / 16QAM



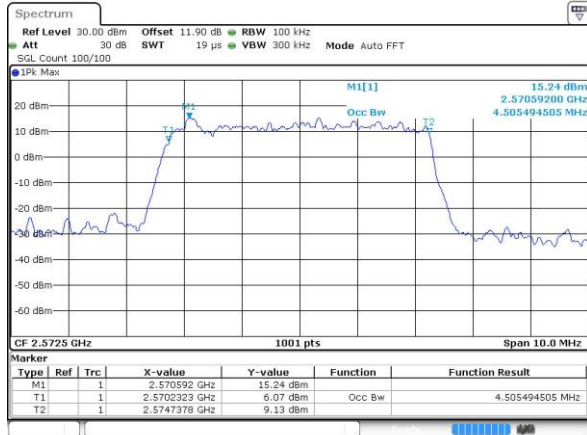
**Occupied Bandwidth**

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	4.49	9.01	9.05	13.37	13.49	18.34	18.22
Middle CH	-	-	-	-	4.49	4.51	9.05	9.01	13.46	13.46	18.22	18.38
Highest CH	-	-	-	-	4.51	4.48	9.07	9.03	13.4	13.46	18.42	18.54



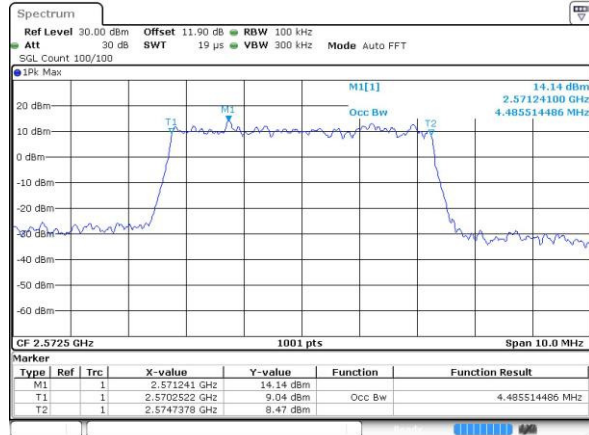
LTE Band 38

Lowest Channel / 5MHz / QPSK



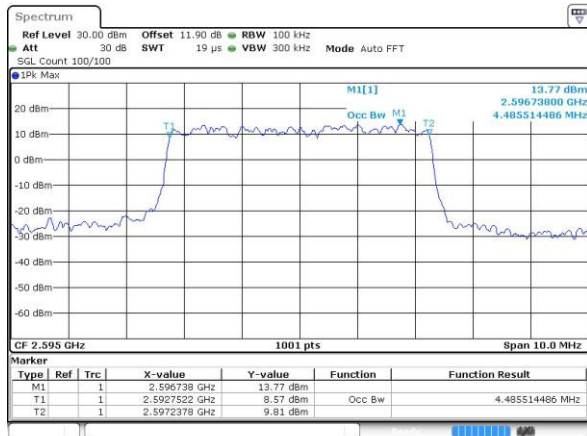
Date: 20 FEB 2017 22:28:59

Lowest Channel / 5MHz / 16QAM



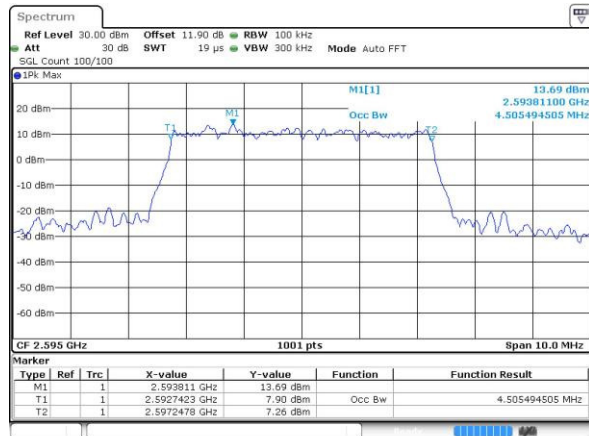
Date: 20 FEB 2017 22:29:09

Middle Channel / 5MHz / QPSK



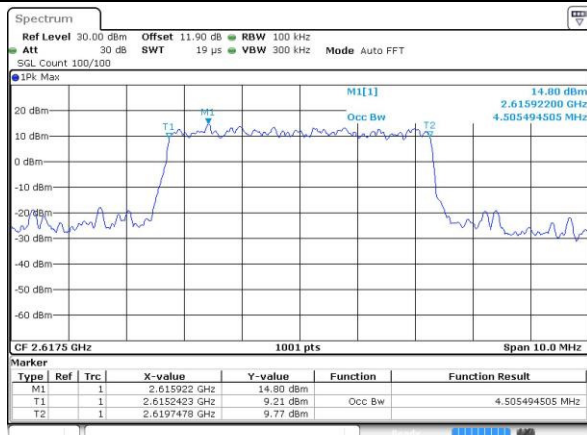
Date: 20 FEB 2017 22:29:40

Middle Channel / 5MHz / 16QAM



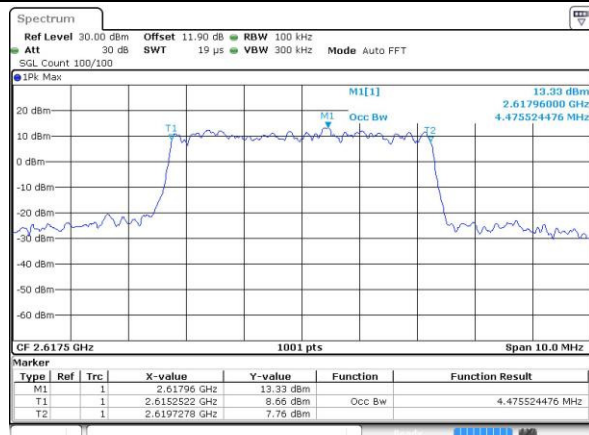
Date: 20 FEB 2017 22:29:50

Highest Channel / 5MHz / QPSK



Date: 20 FEB 2017 22:30:22

Highest Channel / 5MHz / 16QAM

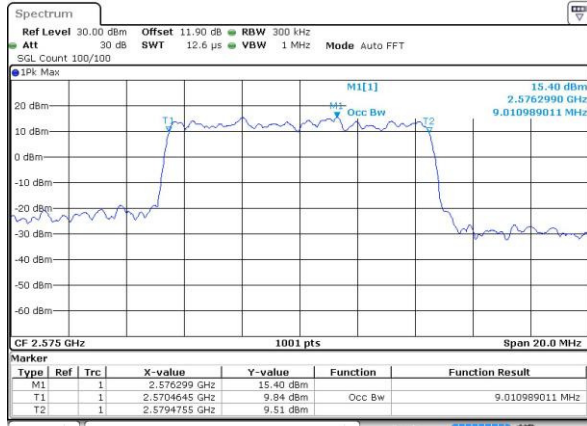


Date: 20 FEB 2017 22:30:32



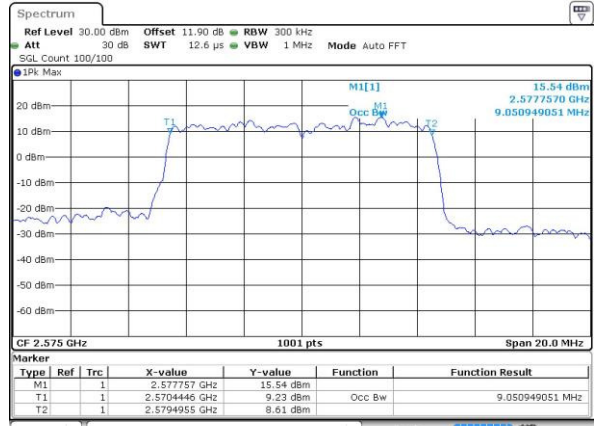
LTE Band 38

Lowest Channel / 10MHz / QPSK



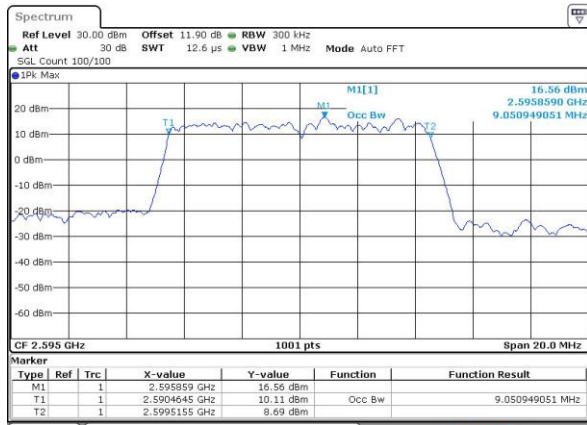
Date: 20 FEB 2017 22:31:03

Lowest Channel / 10MHz / 16QAM



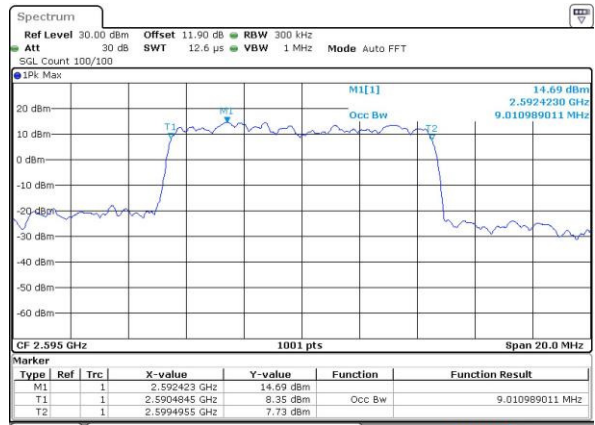
Date: 20 FEB 2017 22:31:13

Middle Channel / 10MHz / QPSK



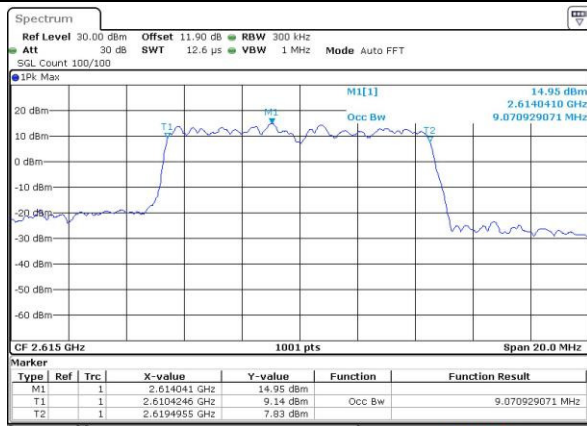
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Middle Channel / 10MHz / 16QAM



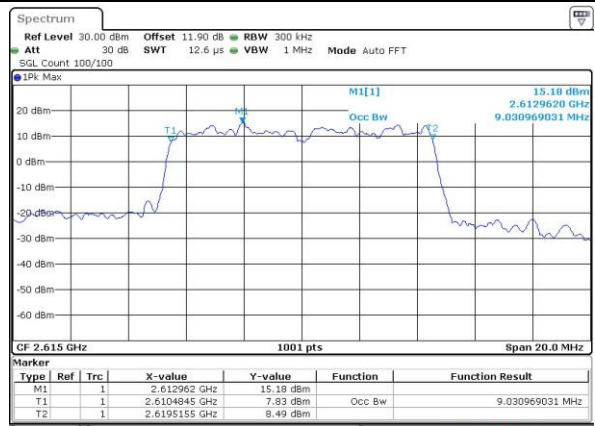
Date: 20 FEB 2017 22:31:55

Highest Channel / 10MHz / QPSK



Date: 20 FEB 2017 22:32:26

Highest Channel / 10MHz / 16QAM

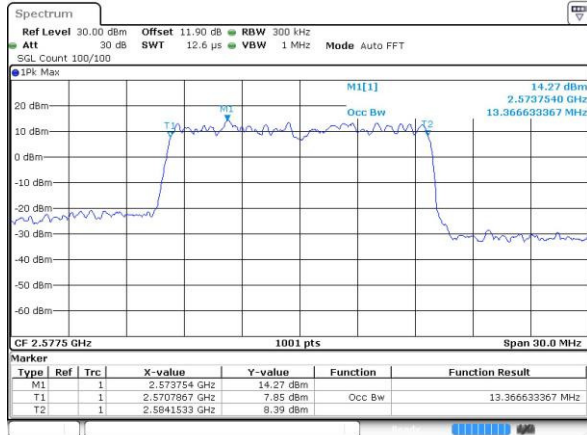


Date: 20 FEB 2017 22:32:36

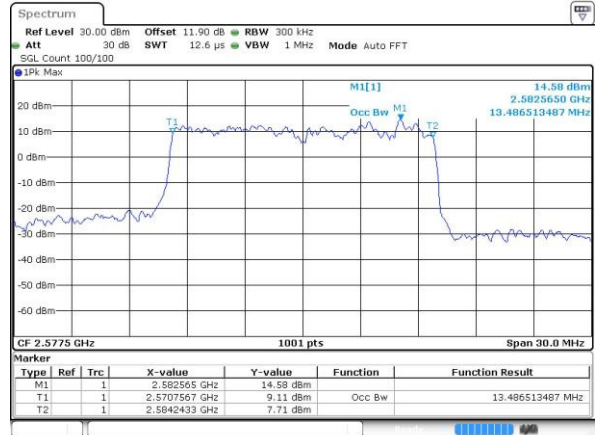


LTE Band 38

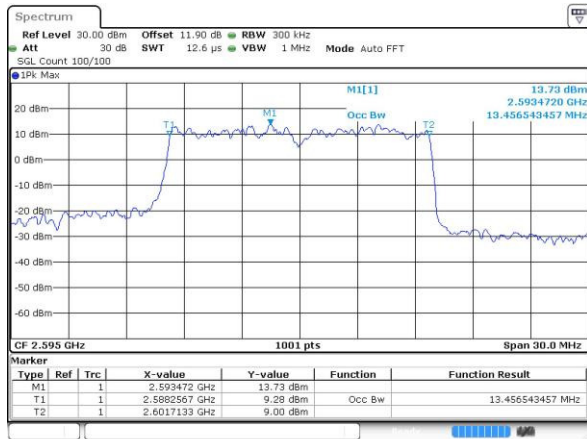
Lowest Channel / 15MHz / QPSK



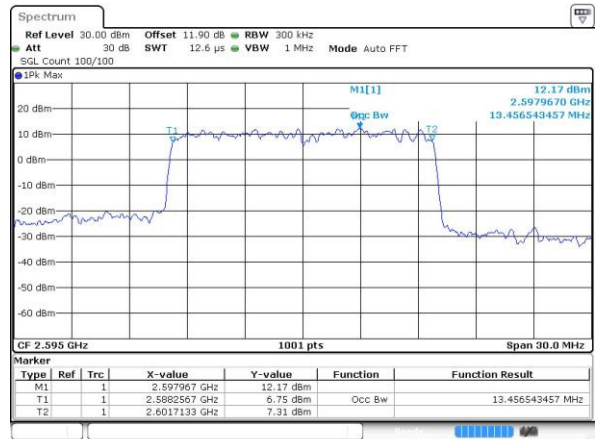
Lowest Channel / 15MHz / 16QAM



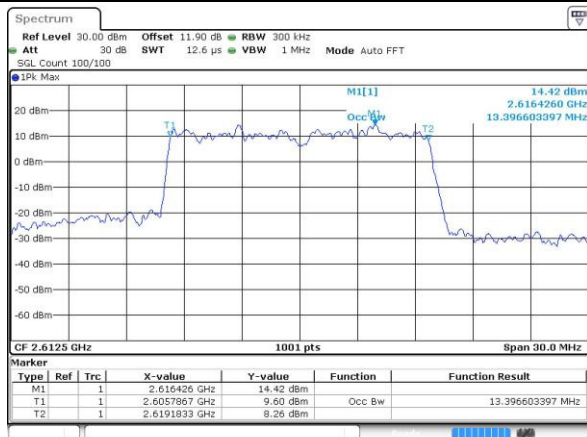
Middle Channel / 15MHz / QPSK



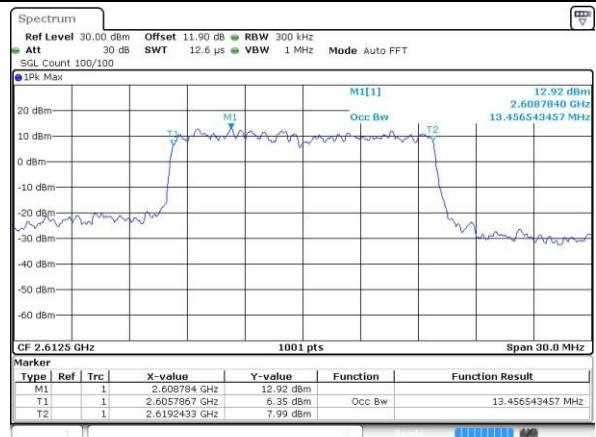
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



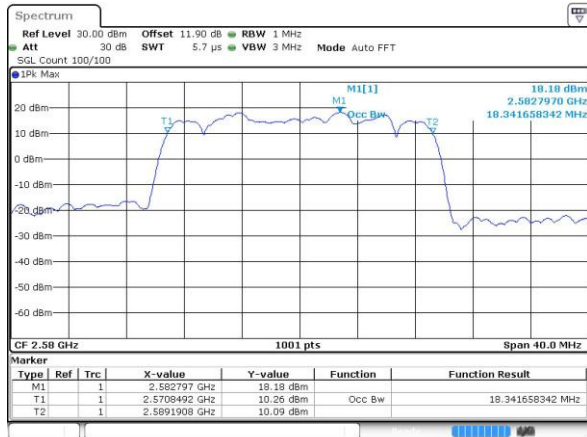
Highest Channel / 15MHz / 16QAM



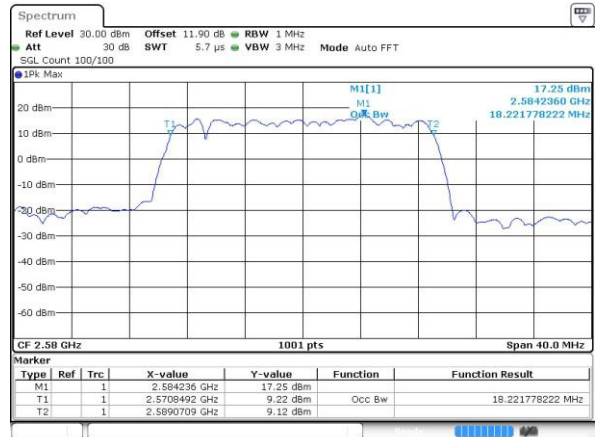


LTE Band 38

Lowest Channel / 20MHz / QPSK



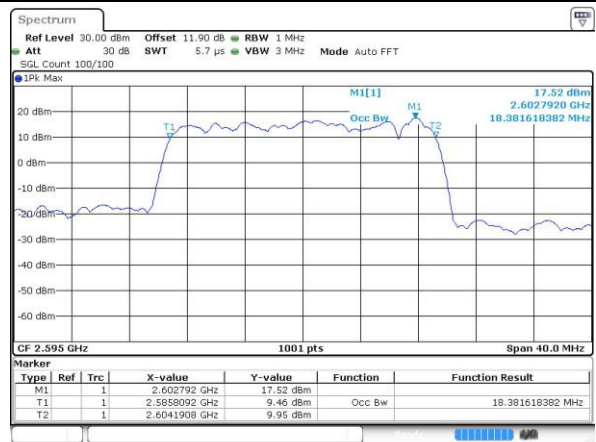
Lowest Channel / 20MHz / 16QAM



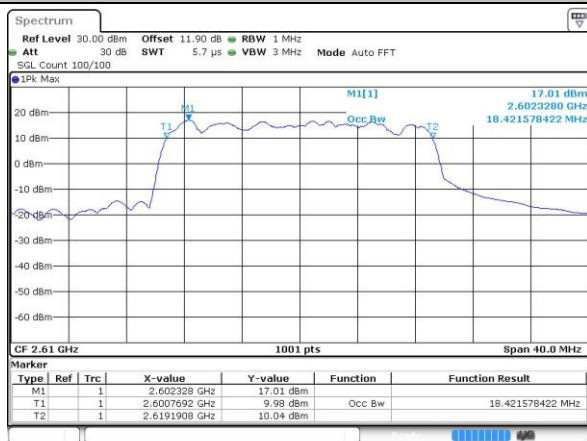
Middle Channel / 20MHz / QPSK



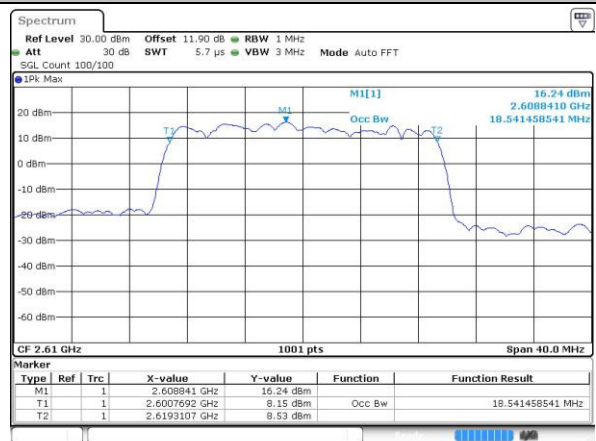
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



Highest Channel / 20MHz / 16QAM



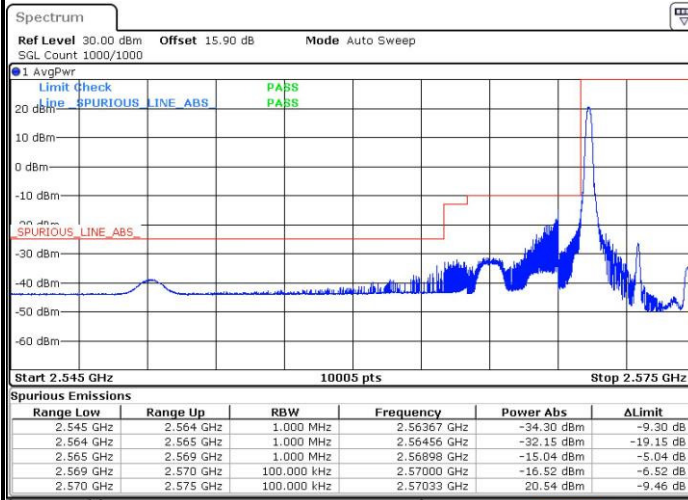


Conducted Band Edge



LTE Band 38 / 5MHz / QPSK

Lowest Band Edge / 1 RB



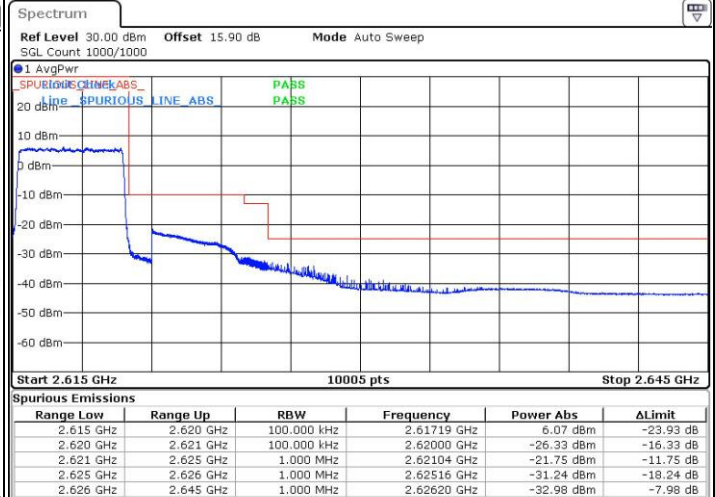
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



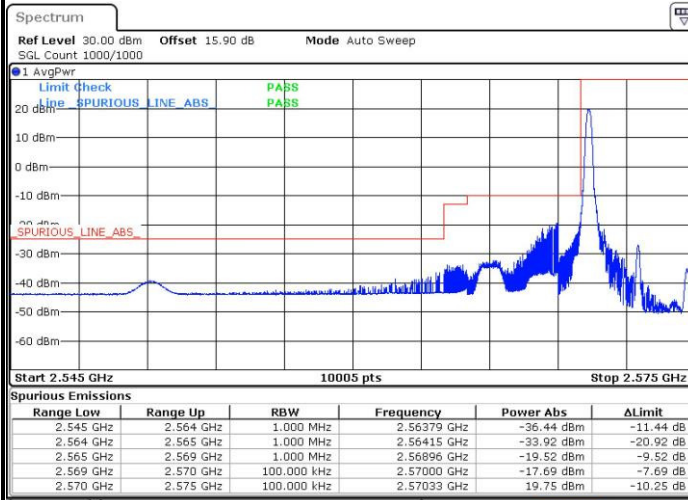
Highest Band Edge / Full RB





LTE Band 38 / 5MHz / 16QAM

Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



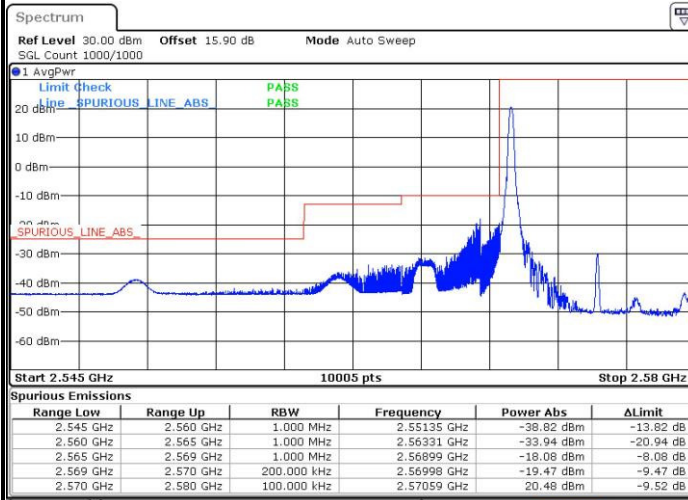
Highest Band Edge / Full RB





LTE Band 38 / 10MHz / QPSK

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



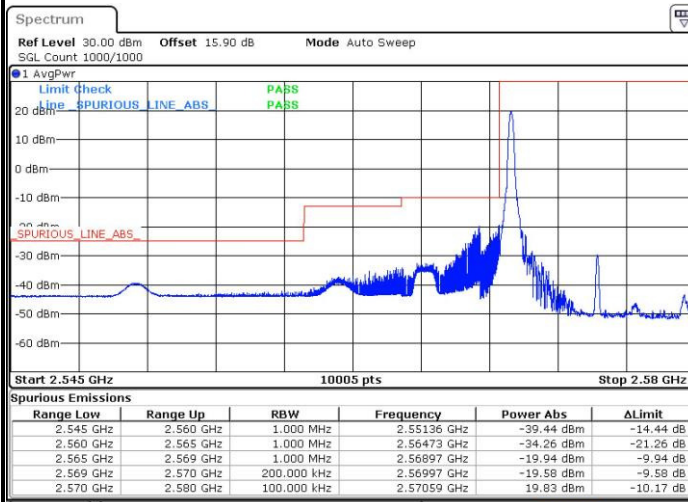
Highest Band Edge / Full RB



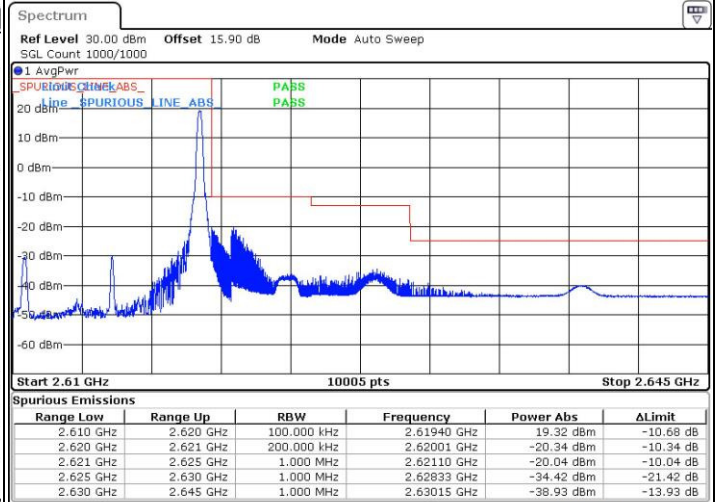


LTE Band 38 / 10MHz / 16QAM

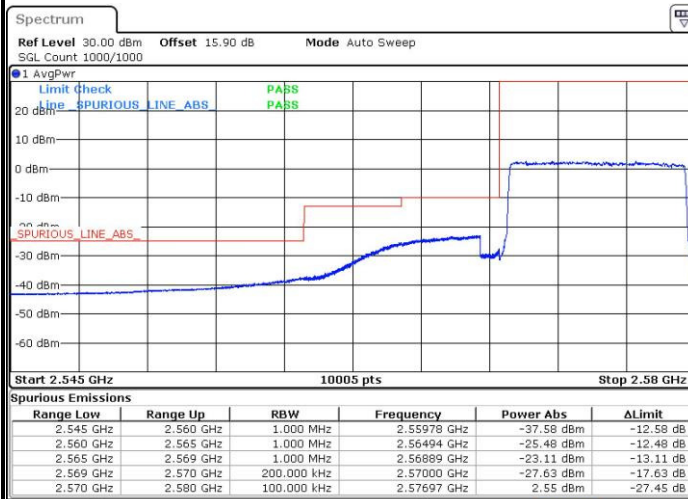
Lowest Band Edge / 1 RB



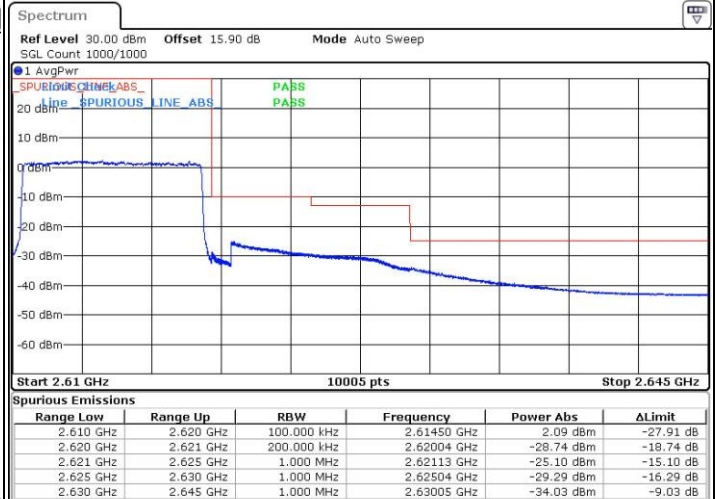
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



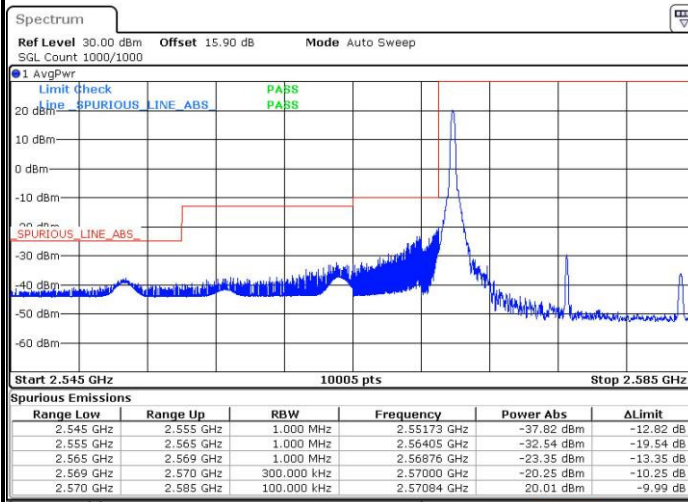
Highest Band Edge / Full RB



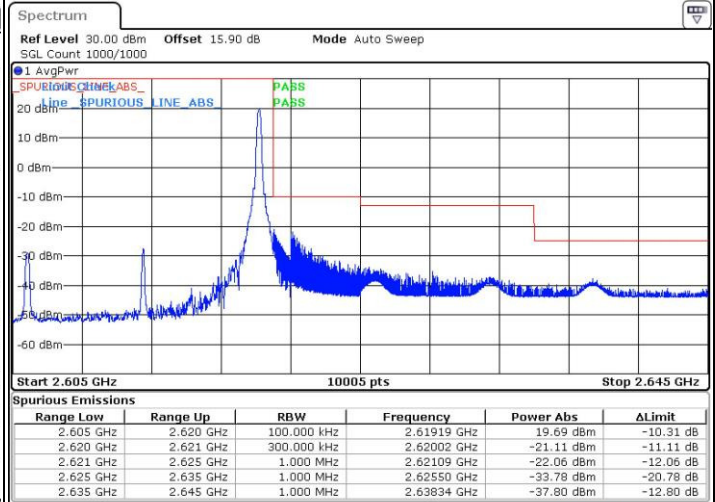


LTE Band 38 / 15MHz / QPSK

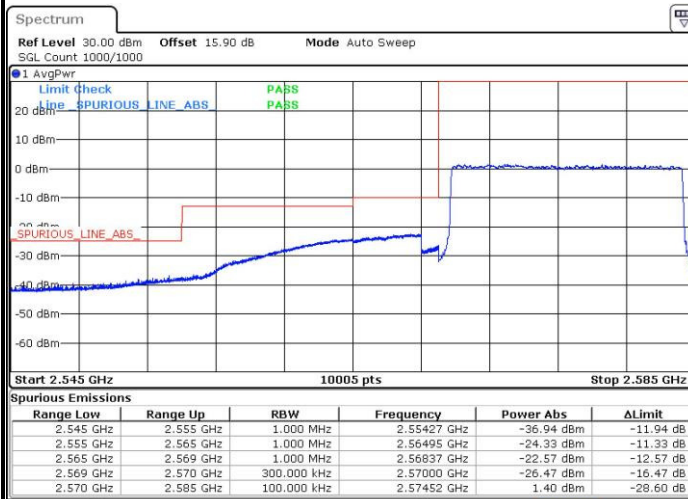
Lowest Band Edge / 1 RB



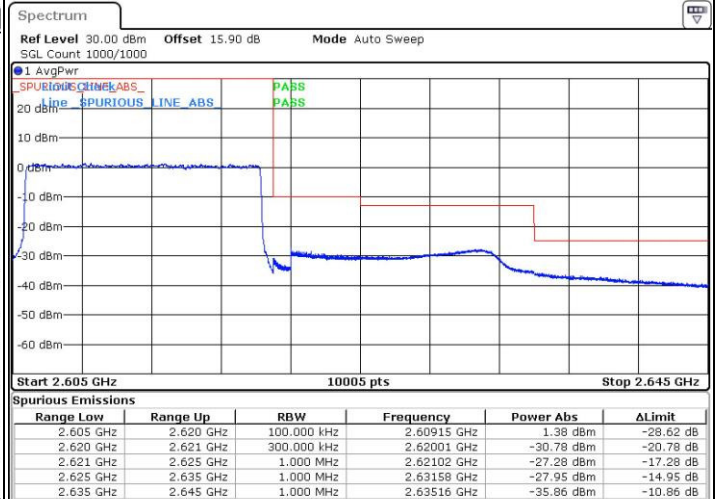
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



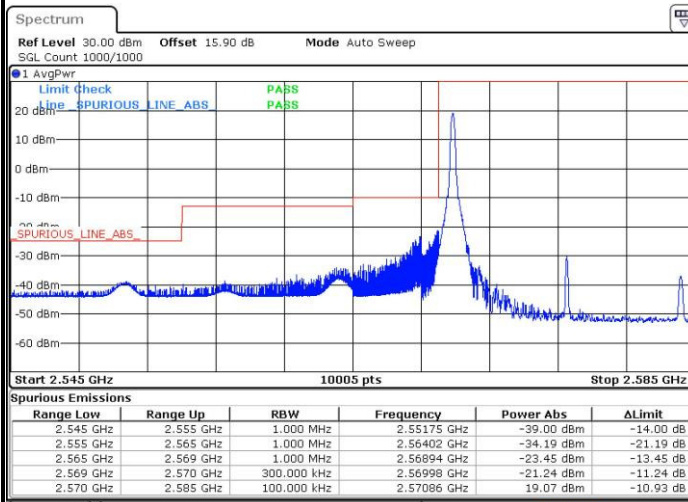
Highest Band Edge / Full RB



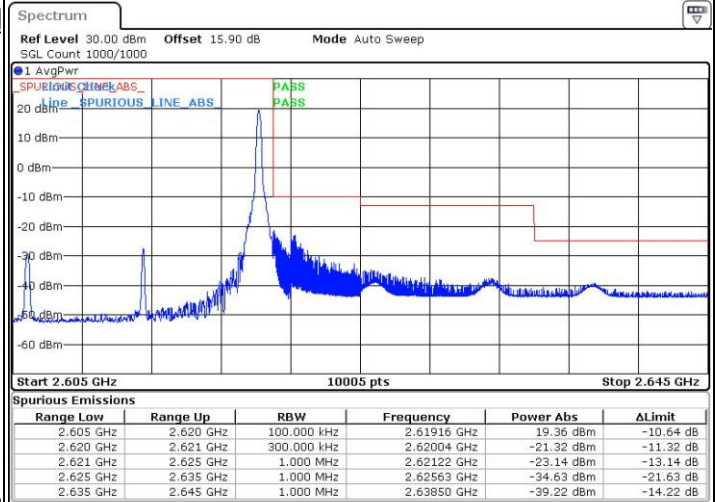


LTE Band 38 / 15MHz / 16QAM

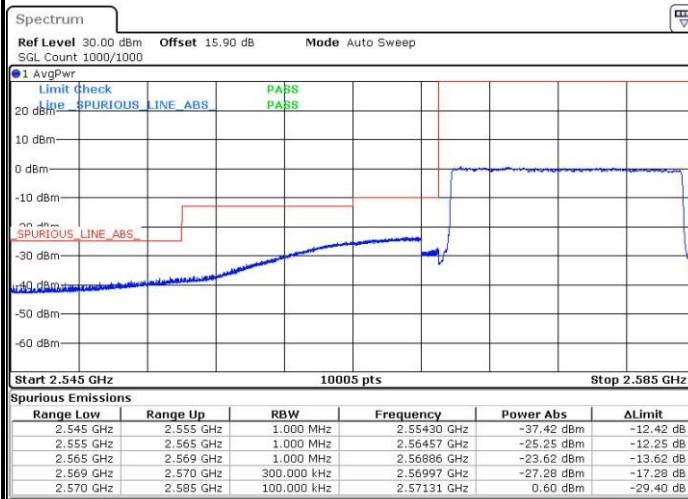
Lowest Band Edge / 1 RB



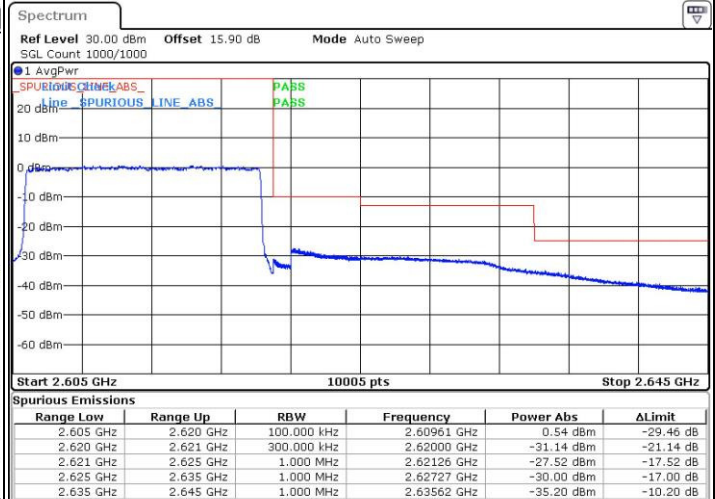
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



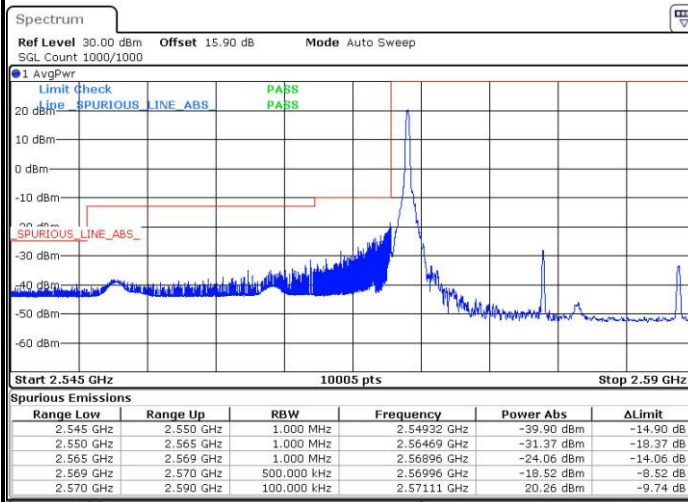
Highest Band Edge / Full RB



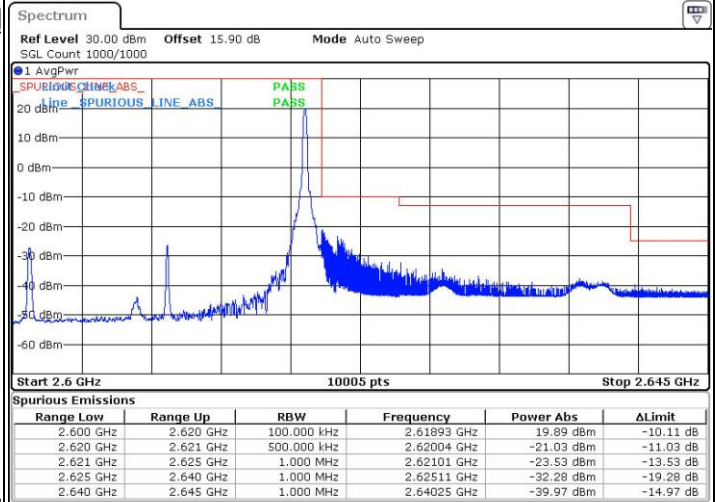


LTE Band 38 / 20MHz / QPSK

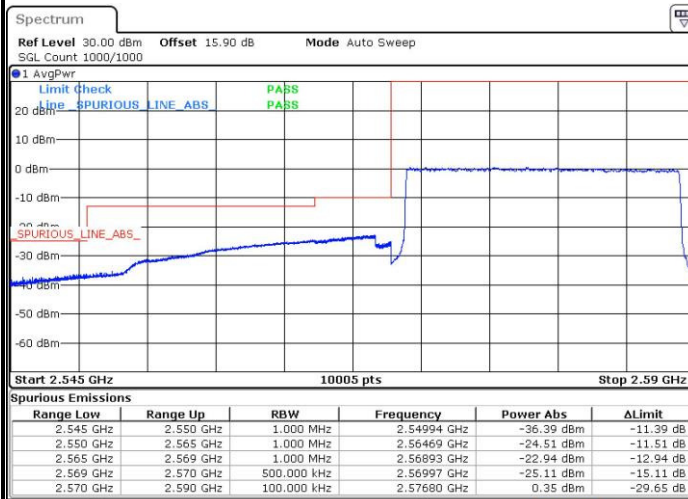
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

