

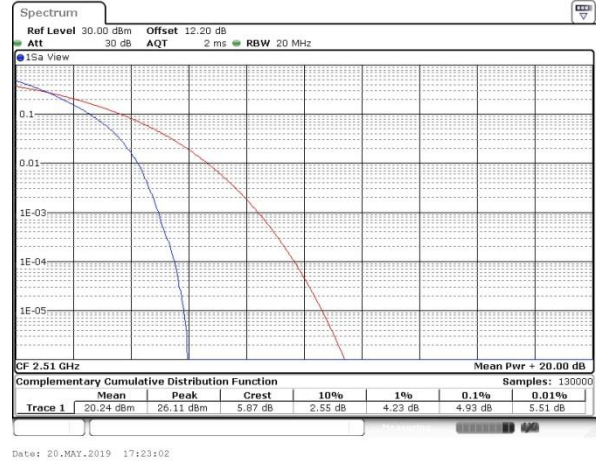


LTE Band 7 / 20MHz / QPSK

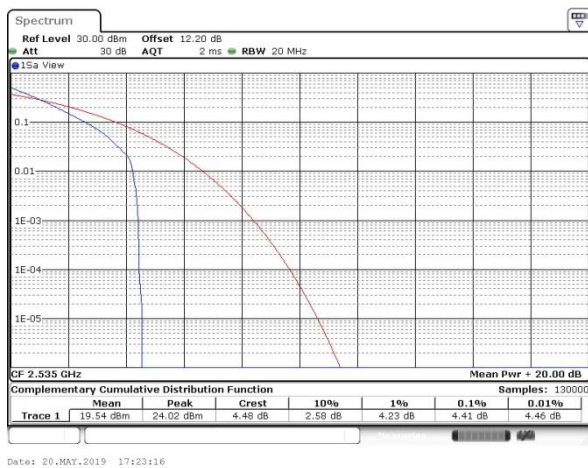
Lowest Channel / 1RB



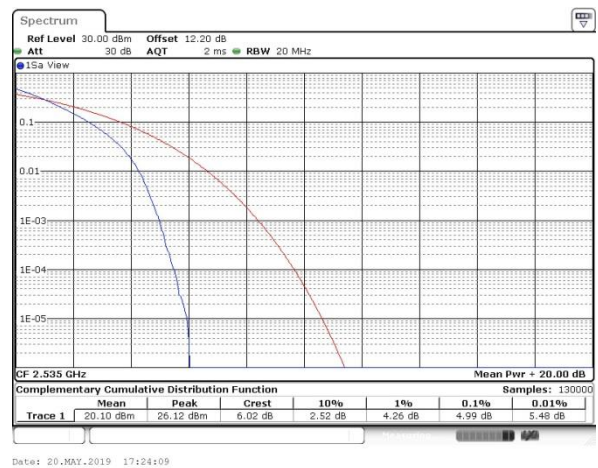
Lowest Channel / Full RB



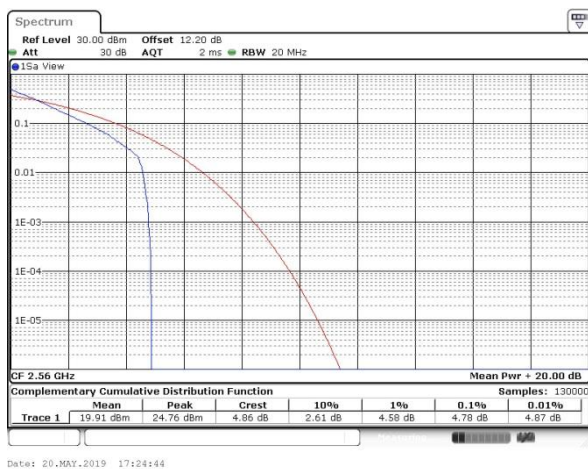
Middle Channel / 1RB



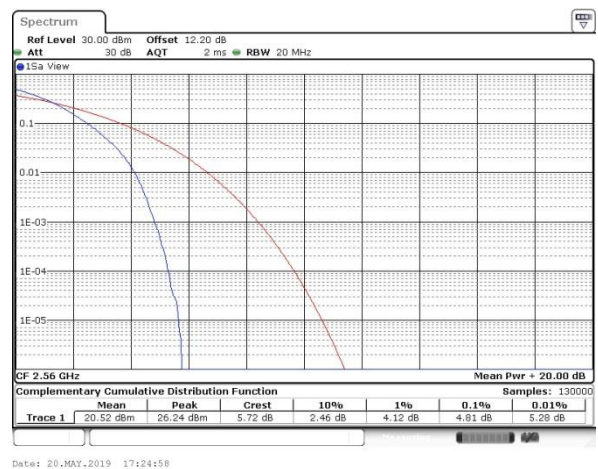
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB





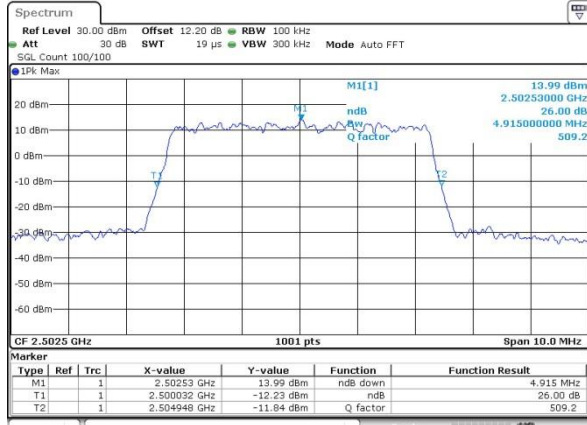
26dB Bandwidth

Mode	LTE Band 7 : 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	-	-	-	-	4.92	-	9.81	-	14.36	-	20.22	-
Middle CH	-	-	-	-	4.87	-	9.65	-	14.39	-	20.10	-
Highest CH	-	-	-	-	4.97	-	9.59	-	14.48	-	20.10	-



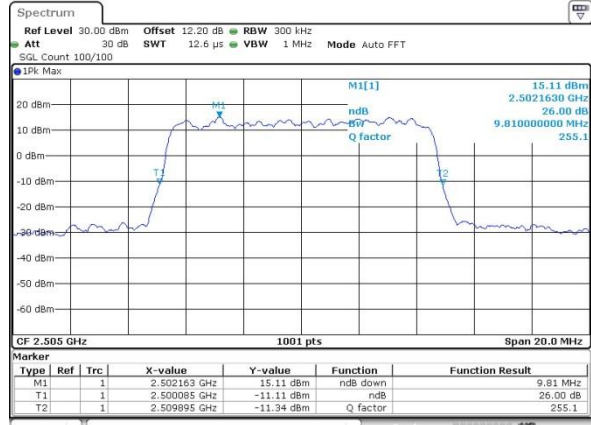
LTE Band 7

Lowest Channel / 5MHz / QPSK



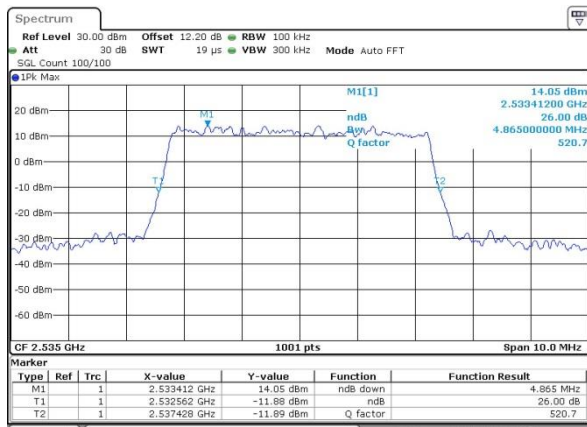
Date: 20.MAY.2019 15:51:18

Lowest Channel / 10MHz / QPSK



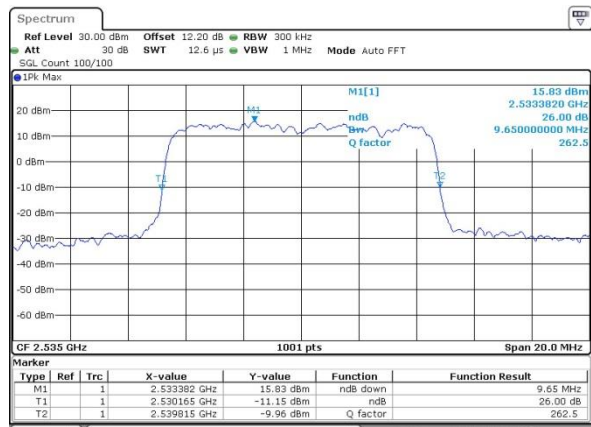
Date: 20.MAY.2019 16:11:42

Middle Channel / 5MHz / QPSK



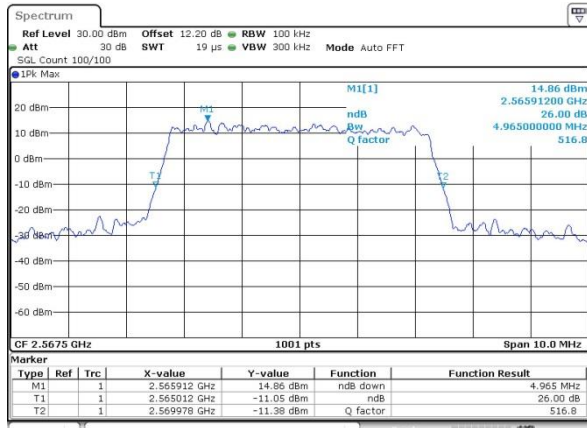
Date: 20.MAY.2019 16:00:06

Middle Channel / 10MHz / QPSK



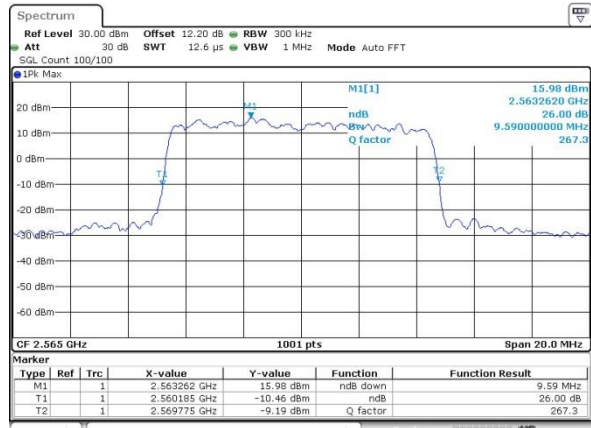
Date: 20.MAY.2019 16:20:31

Highest Channel / 5MHz / QPSK



Date: 20.MAY.2019 16:02:54

Highest Channel / 10MHz / QPSK

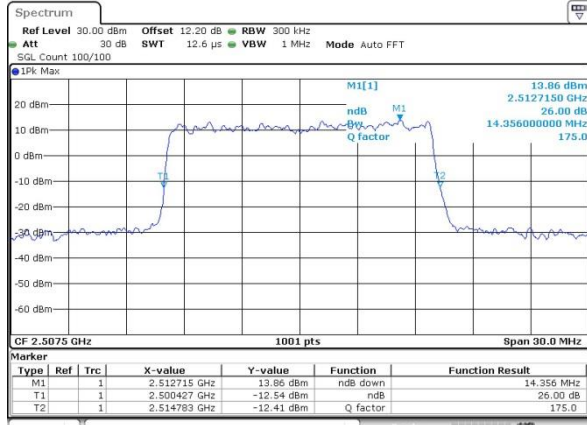


Date: 20.MAY.2019 16:23:19



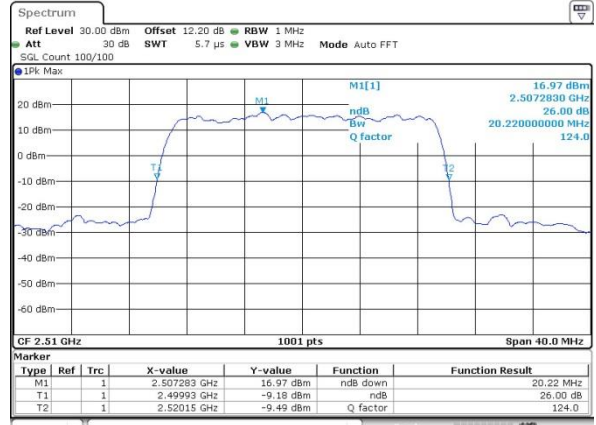
LTE Band 7

Lowest Channel / 15MHz / QPSK



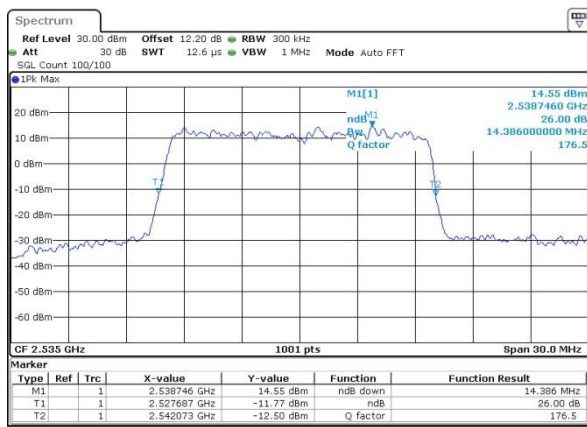
Date: 20.MAY.2019 16:32:07

Lowest Channel / 20MHz / QPSK



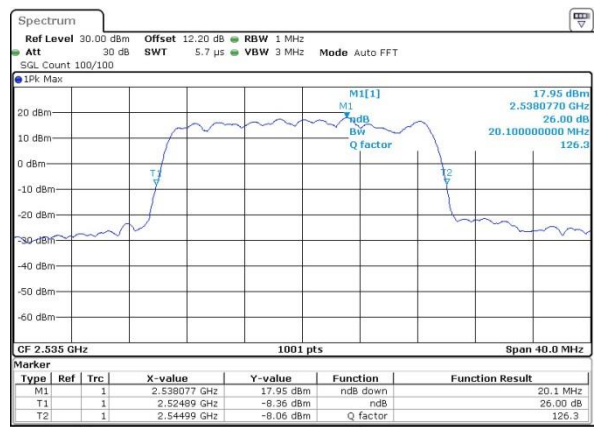
Date: 20.MAY.2019 16:52:31

Middle Channel / 15MHz / QPSK



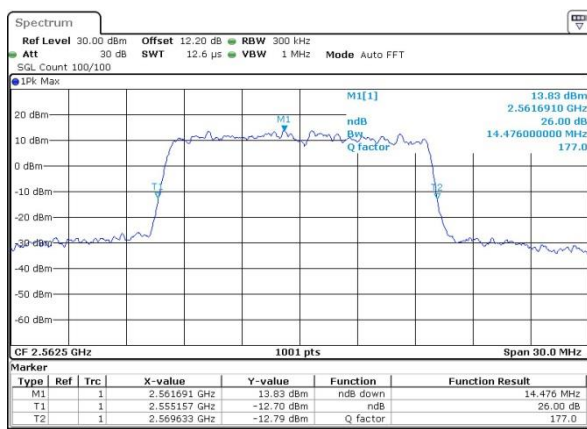
Date: 20.MAY.2019 16:40:55

Middle Channel / 20MHz / QPSK



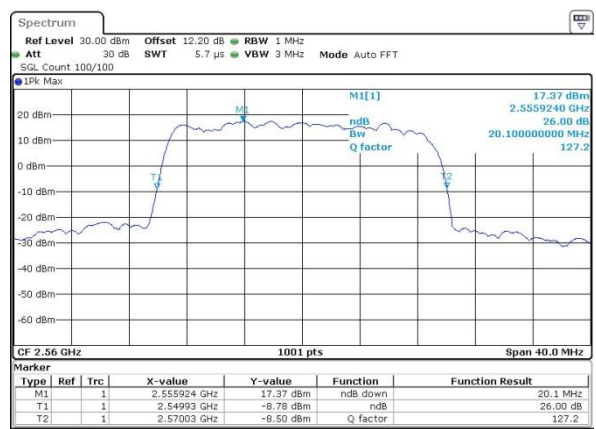
Date: 20.MAY.2019 17:01:20

Highest Channel / 15MHz / QPSK



Date: 20.MAY.2019 16:43:43

Highest Channel / 20MHz / QPSK



Date: 20.MAY.2019 17:04:08

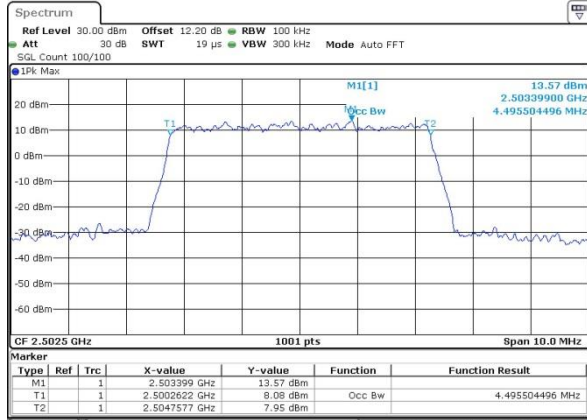
**Occupied Bandwidth**

Mode	LTE Band 7 : 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	-	-	-	-	4.5	-	9.01	-	13.4	-	18.3	-
Middle CH	-	-	-	-	4.51	-	9.01	-	13.43	-	18.3	-
Highest CH	-	-	-	-	4.47	-	8.95	-	13.28	-	18.22	-

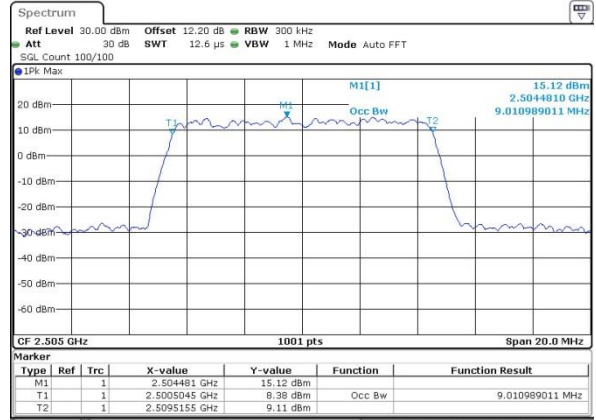


LTE Band 7

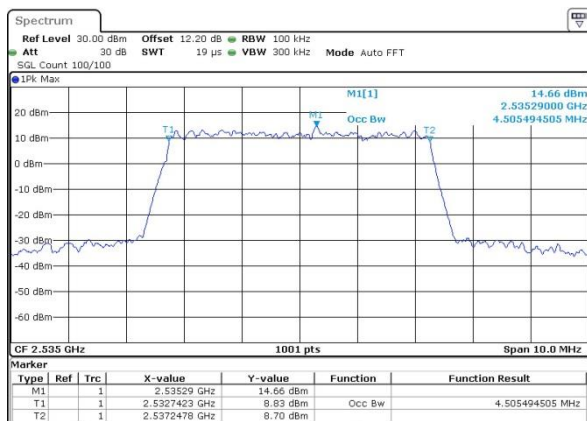
Lowest Channel / 5MHz / QPSK



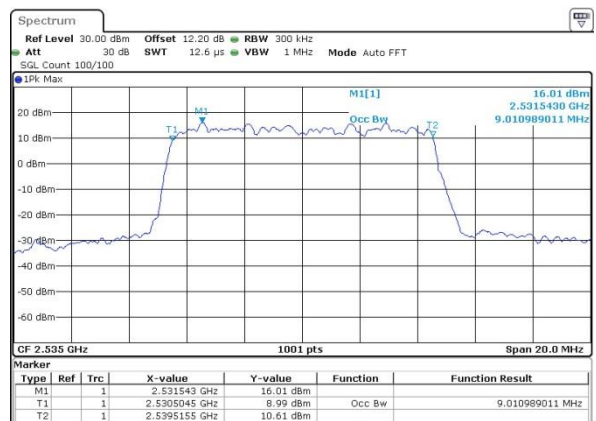
Lowest Channel / 10MHz / QPSK



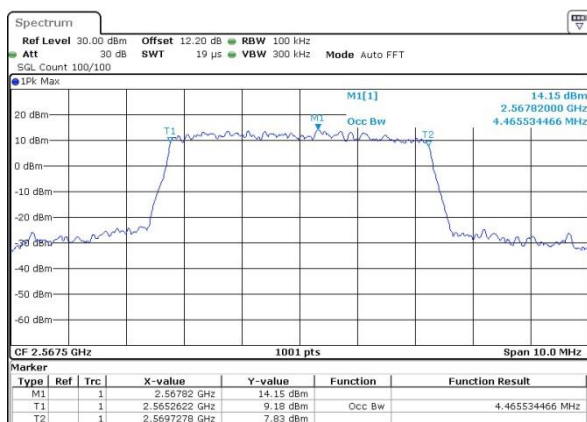
Middle Channel / 5MHz / QPSK



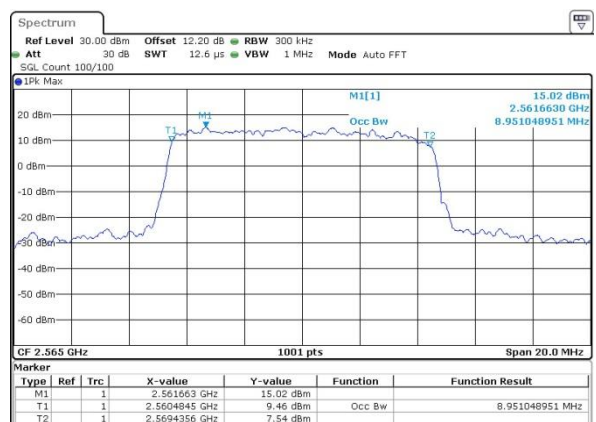
Middle Channel / 10MHz / QPSK



Highest Channel / 5MHz / QPSK



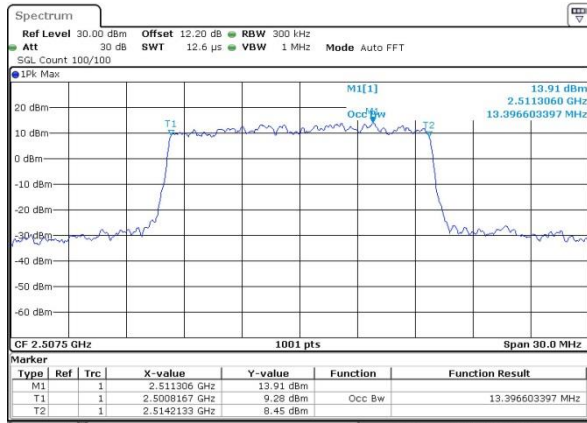
Highest Channel / 10MHz / QPSK



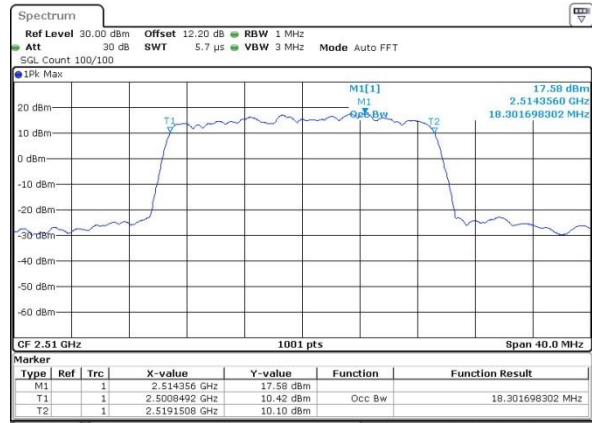


LTE Band 7

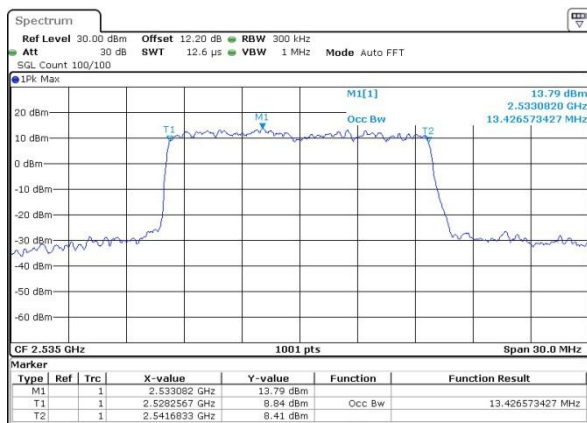
Lowest Channel / 15MHz / QPSK



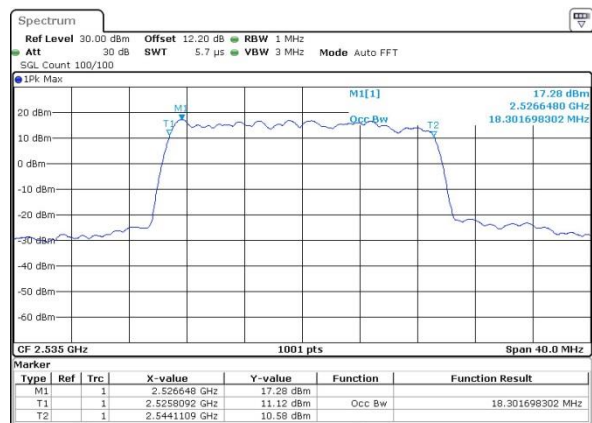
Lowest Channel / 20MHz / QPSK



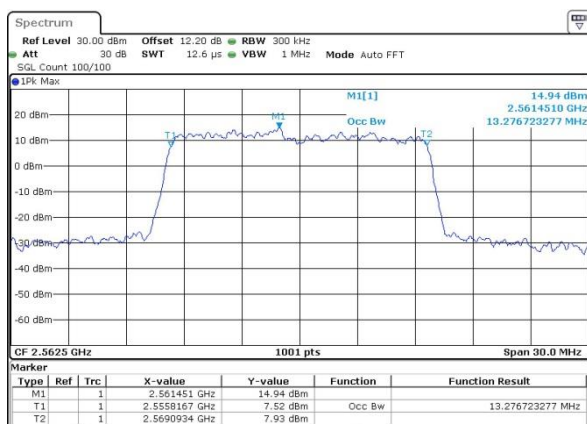
Middle Channel / 15MHz / QPSK



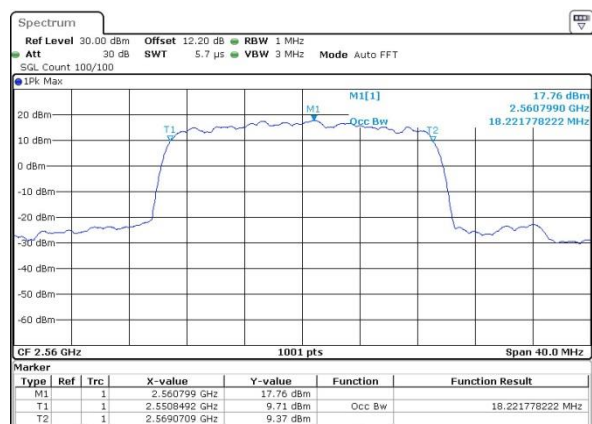
Middle Channel / 20MHz / QPSK



Highest Channel / 15MHz / QPSK



Highest Channel / 20MHz / QPSK

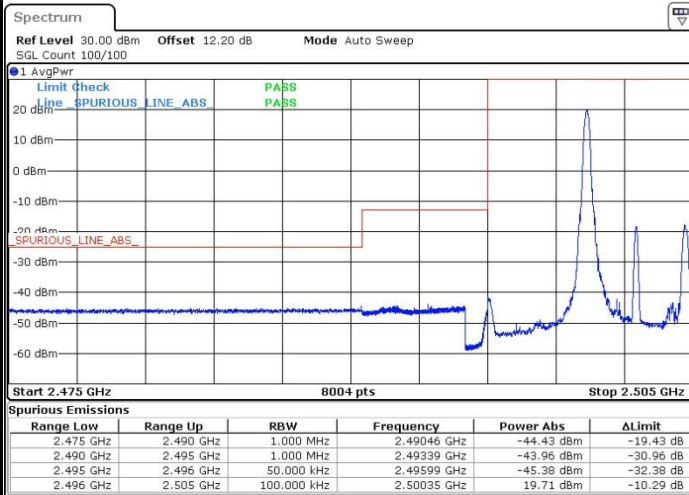




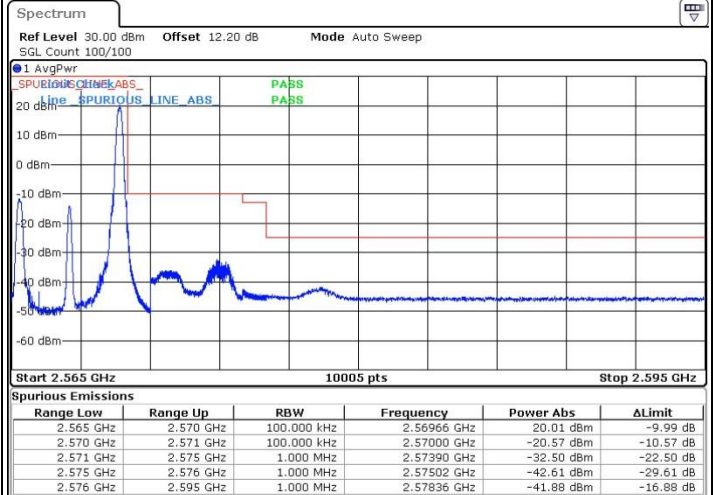
Conducted Band Edge

LTE Band 7 / 5MHz / QPSK

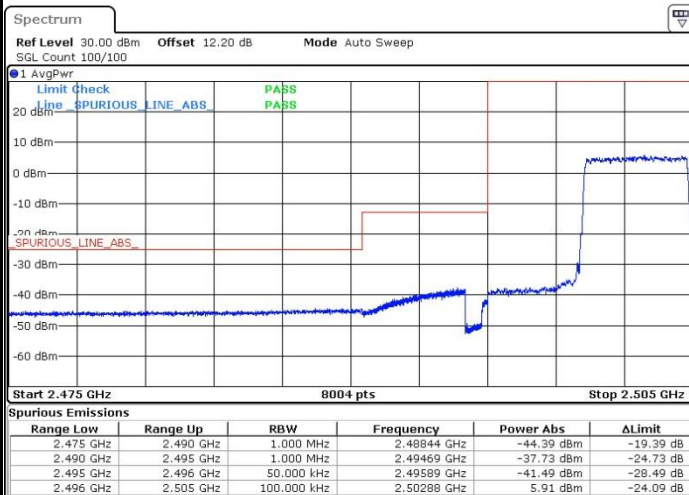
Lowest Band Edge / 1 RB



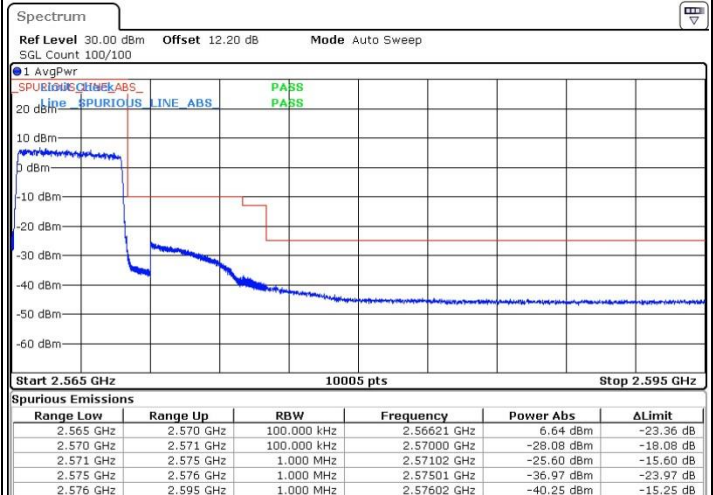
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



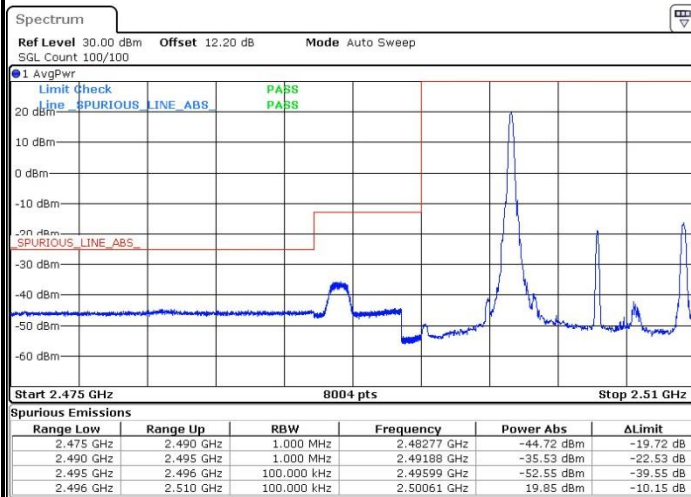
Highest Band Edge / Full RB



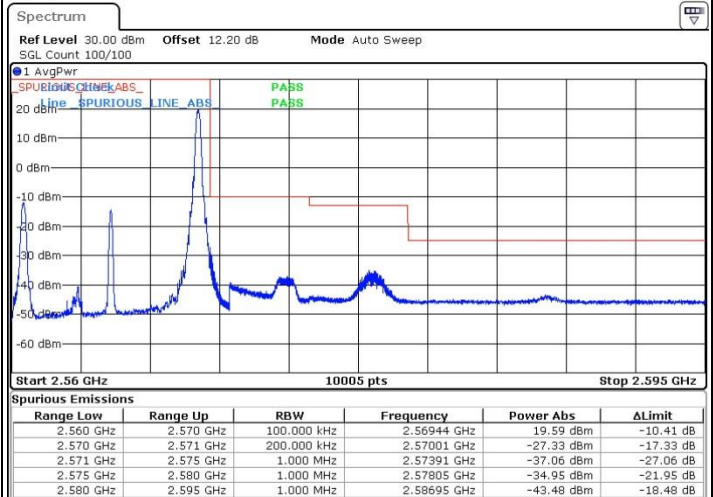


LTE Band 7 / 10MHz / QPSK

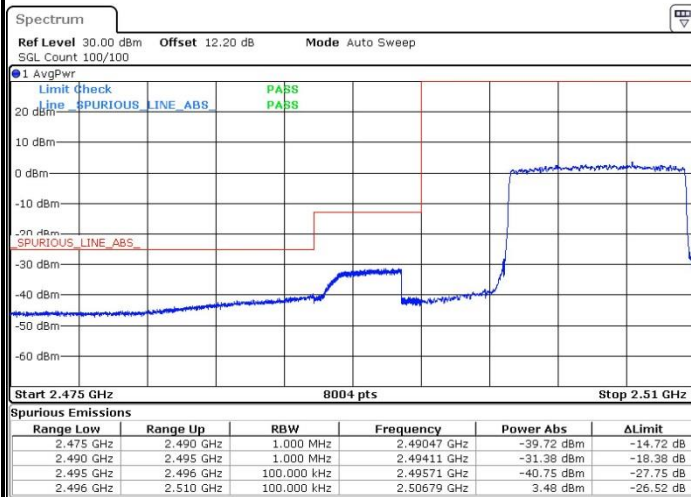
Lowest Band Edge / 1 RB



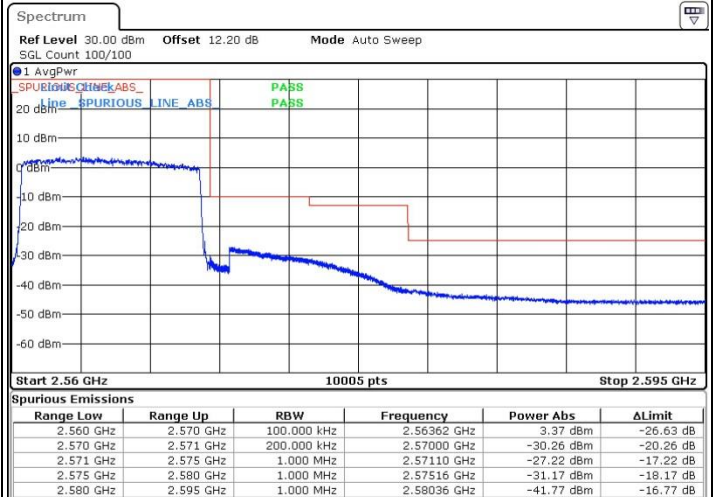
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



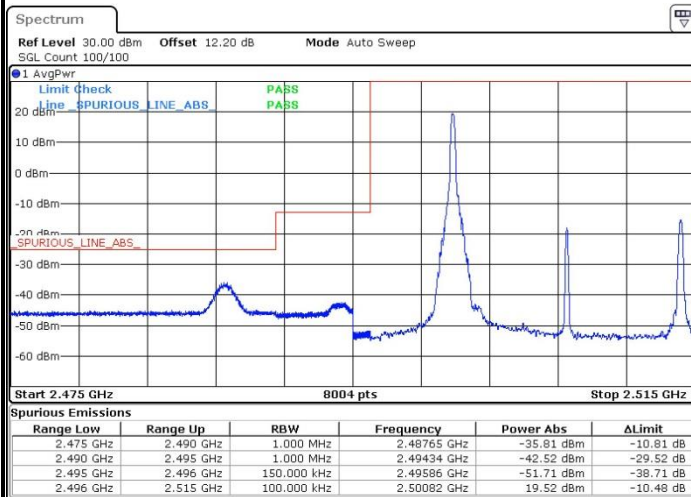
Highest Band Edge / Full RB



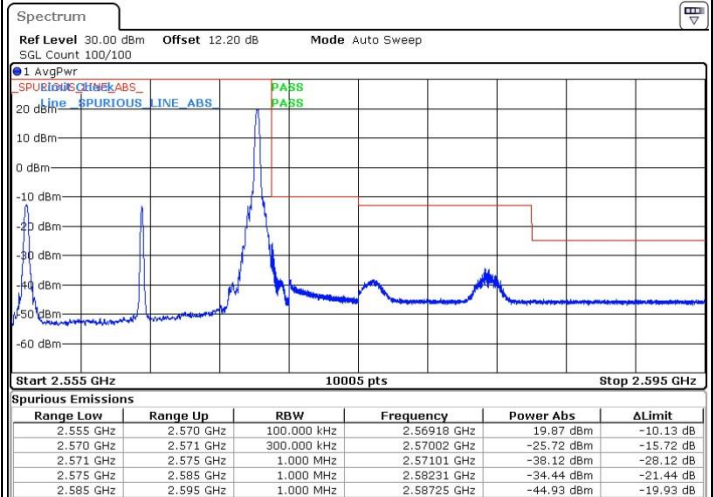


LTE Band 7 / 15MHz / QPSK

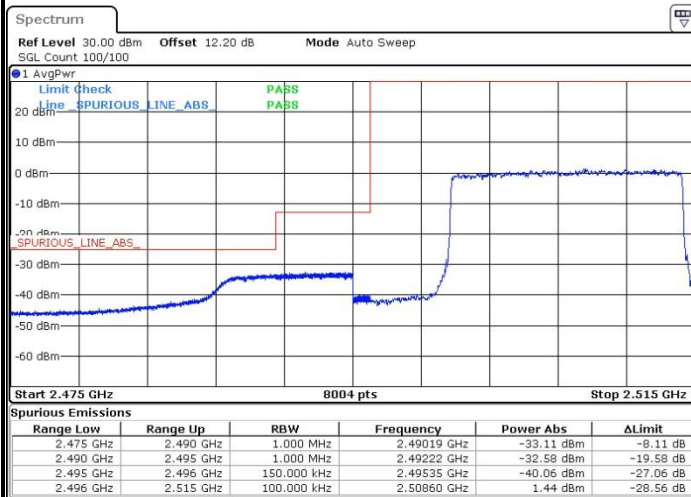
Lowest Band Edge / 1 RB



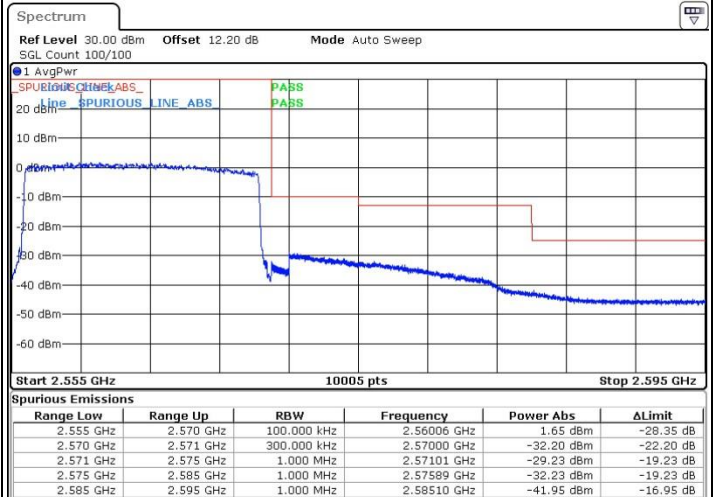
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



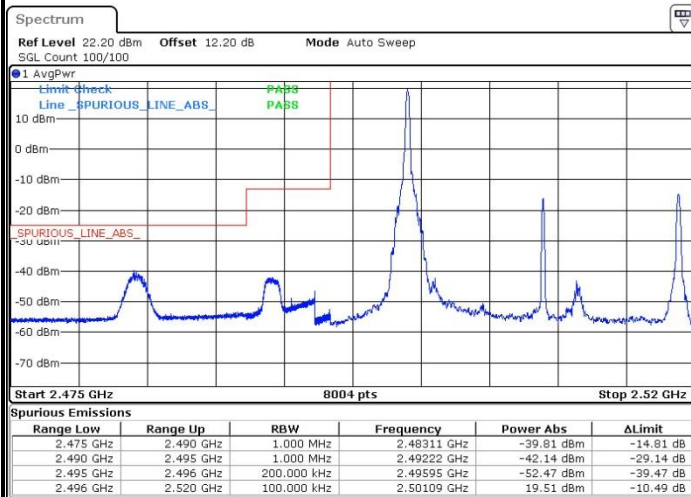
Highest Band Edge / Full RB





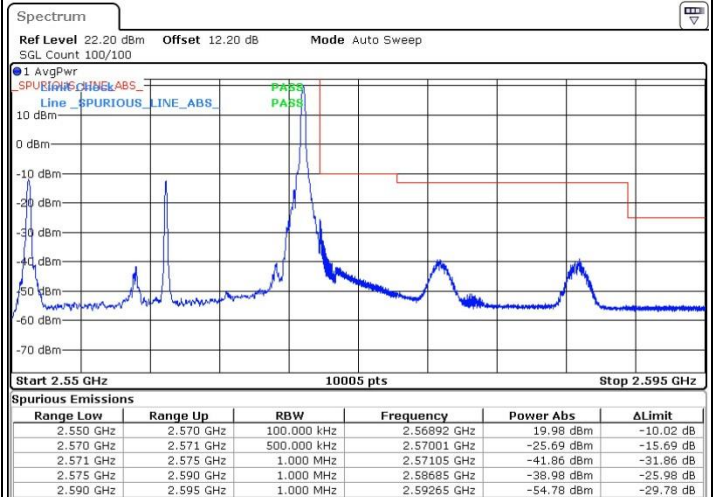
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB



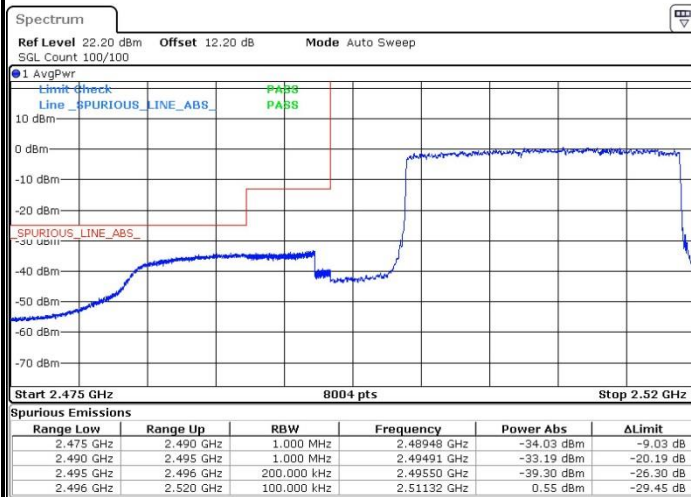
Date: 20.MAY.2019 16:54:13

Highest Band Edge / 1 RB



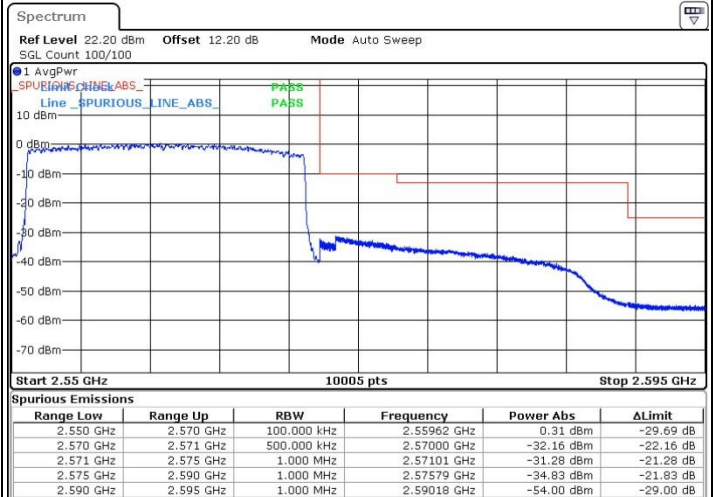
Date: 20.MAY.2019 17:05:49

Lowest Band Edge / Full RB



Date: 20.MAY.2019 16:57:13

Highest Band Edge / Full RB



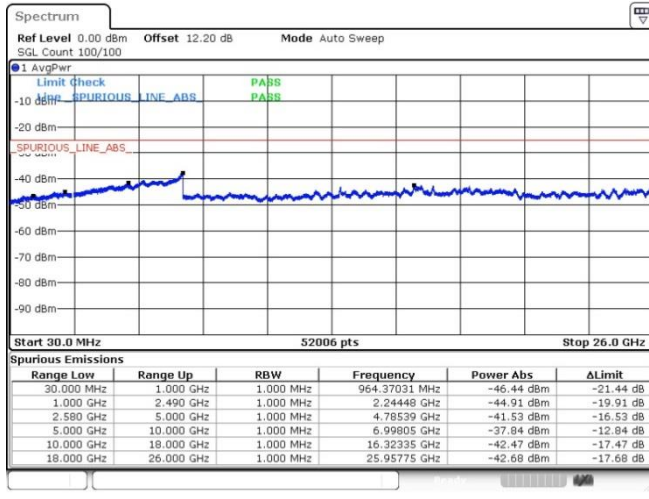
Date: 20.MAY.2019 17:10:19



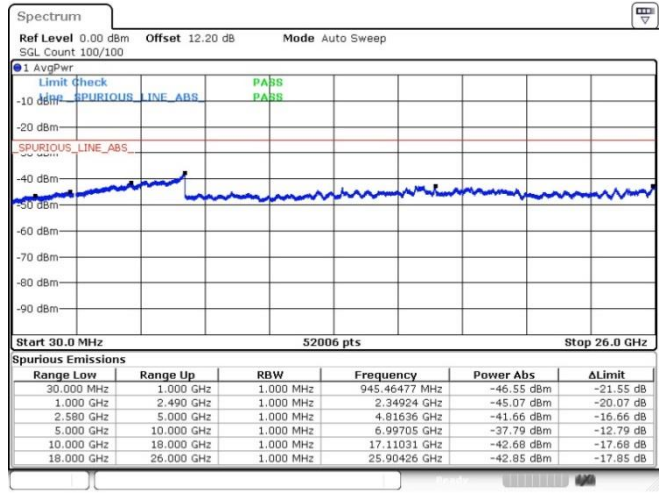
Conducted Spurious Emission

LTE Band 7 / 5MHz

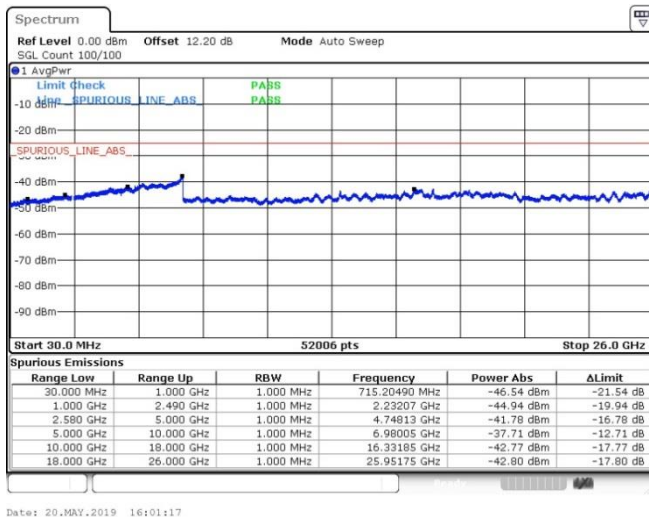
Lowest Channel / QPSK



Highest Channel / QPSK



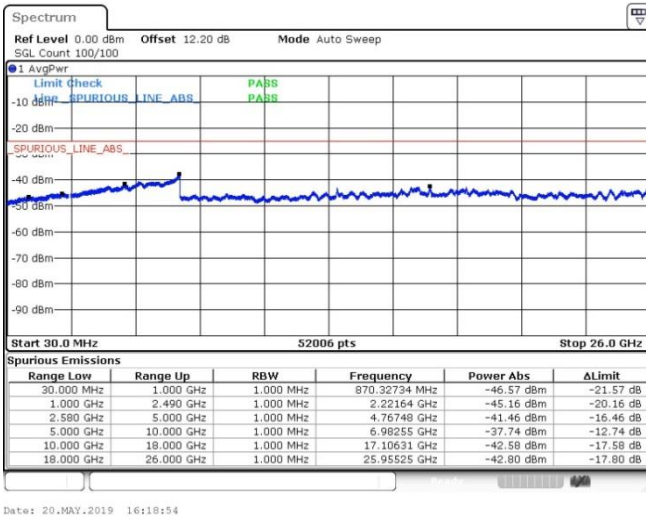
Middle Channel / QPSK



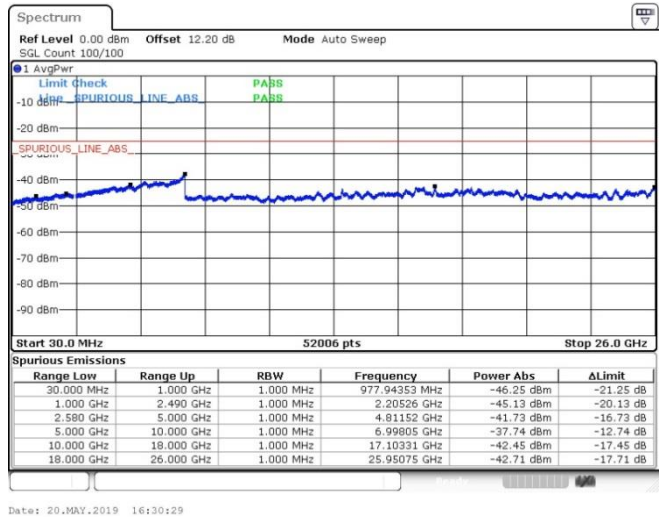


LTE Band 7 / 10MHz

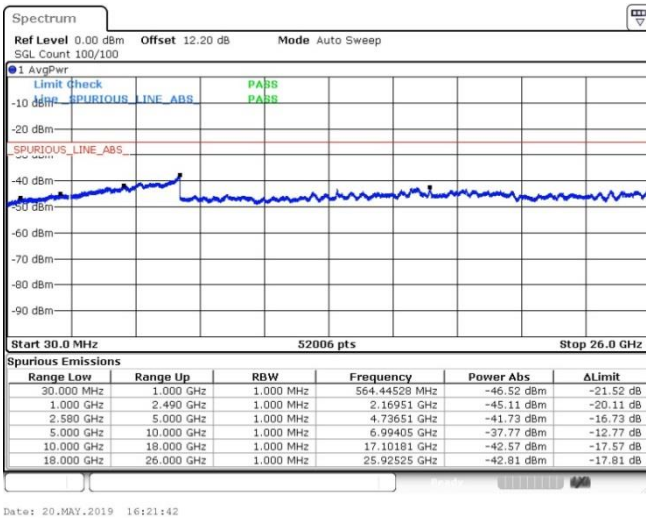
Lowest Channel / QPSK



Highest Channel / QPSK



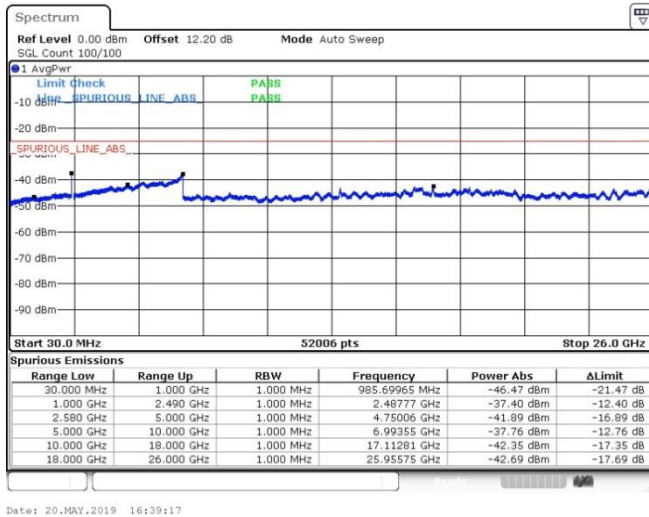
Middle Channel / QPSK



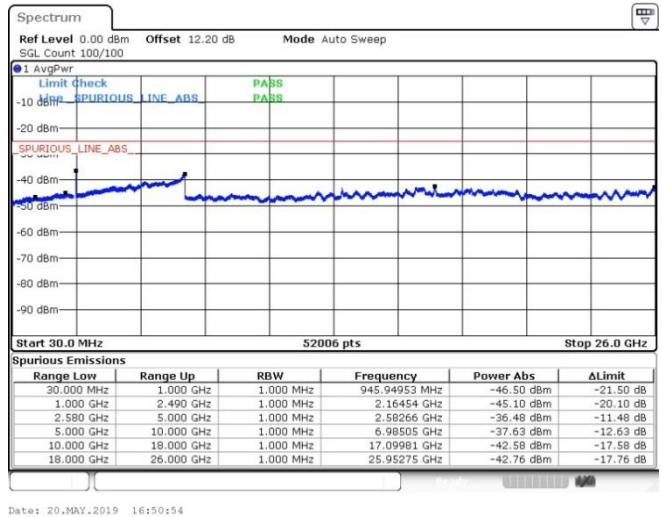


LTE Band 7 / 15MHz

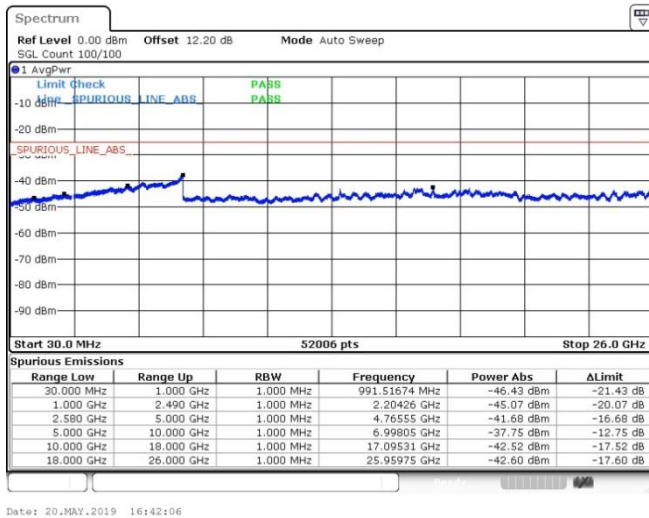
Lowest Channel / QPSK



Highest Channel / QPSK



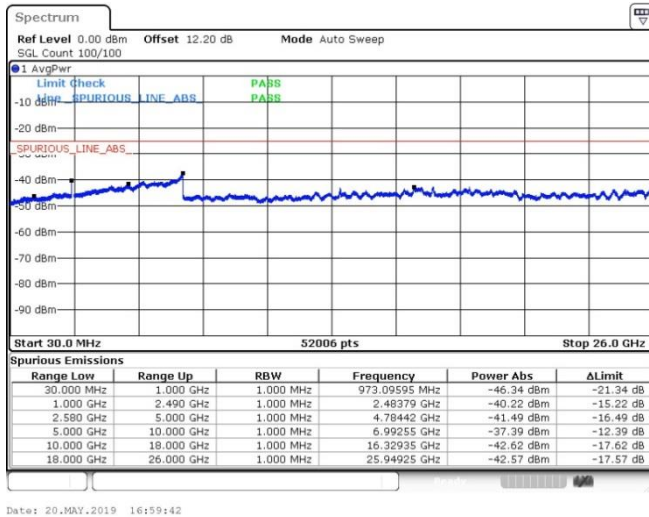
Middle Channel / QPSK



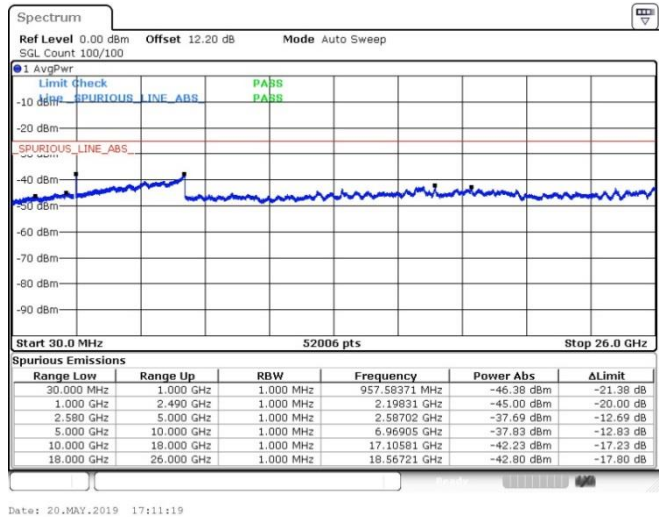


LTE Band 7 / 20MHz

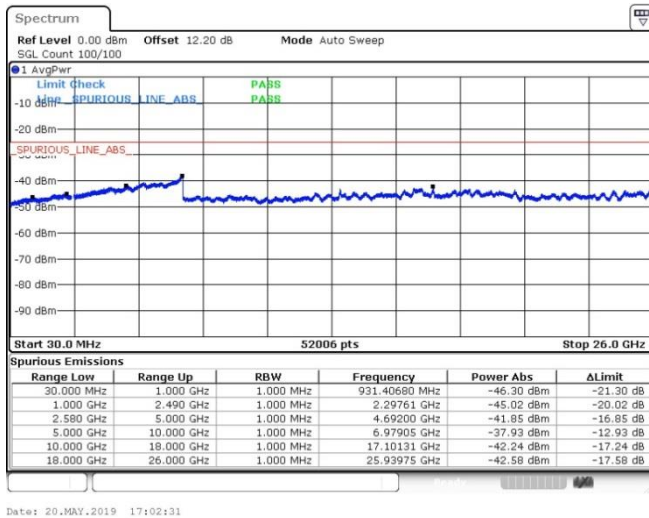
Lowest Channel / QPSK



Highest Channel / QPSK



Middle Channel / QPSK



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	0.0010	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0017	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0011	
0	Normal Voltage	0.0010	
-10	Normal Voltage	0.0009	
-20	Normal Voltage	0.0001	
-30	Normal Voltage	0.0007	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0019	

Note:

1. Normal Voltage =14.0 V. ; Battery End Point (BEP) =14.0 V. ; Maximum Voltage =16.0 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 12

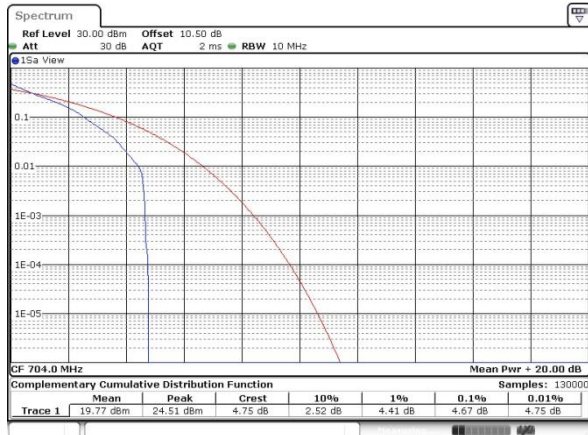
Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.67	4.96	-	-	PASS
Middle CH	4.52	5.13	-	-	
Highest CH	4.55	4.99	-	-	

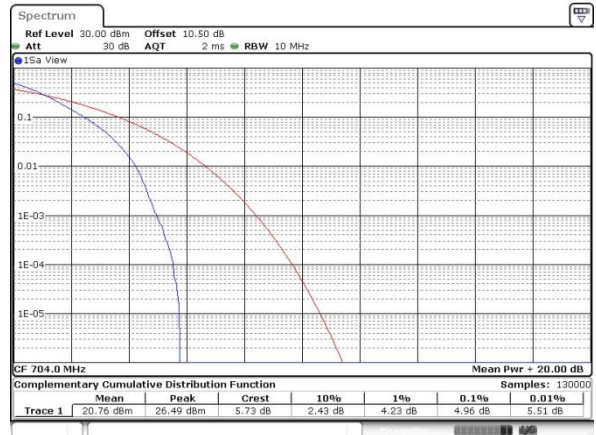


LTE Band 12 / 10MHz / QPSK

Lowest Channel / 1RB



Lowest Channel / Full RB



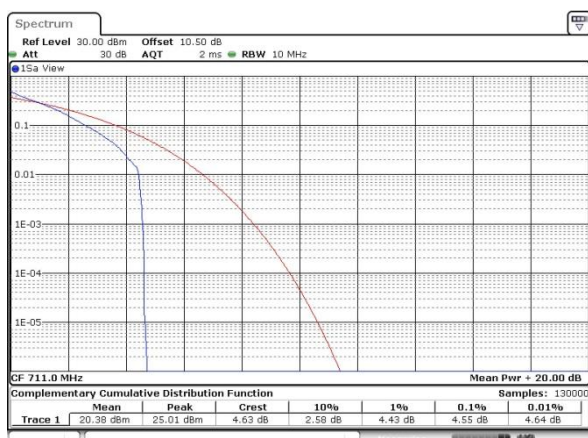
Middle Channel / 1RB



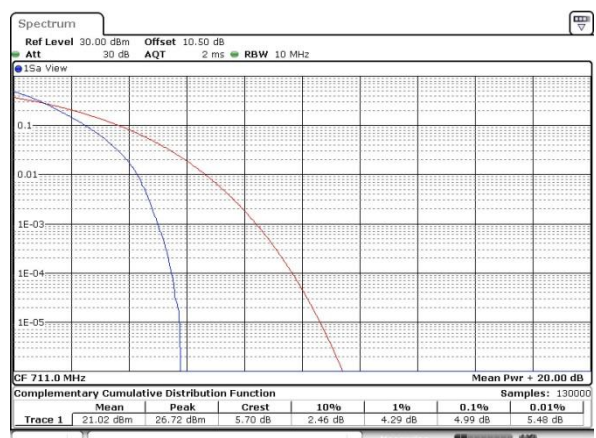
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



**26dB Bandwidth**

Mode	LTE Band 12 : 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	1.26	-	3.00	-	4.88	-	9.67	-	-	-	-	-
Middle CH	1.26	-	2.99	-	4.96	-	9.87	-	-	-	-	-
Highest CH	1.27	-	3.00	-	4.99	-	9.87	-	-	-	-	-