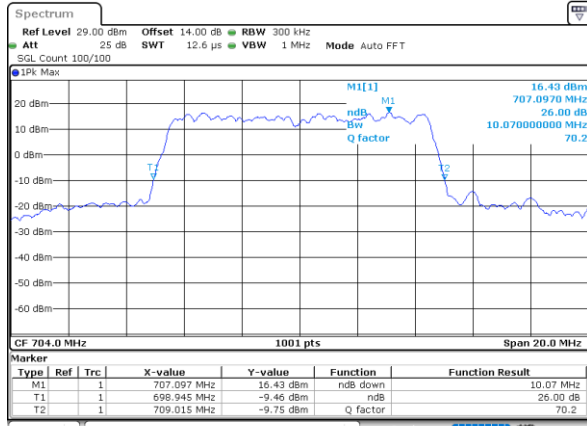


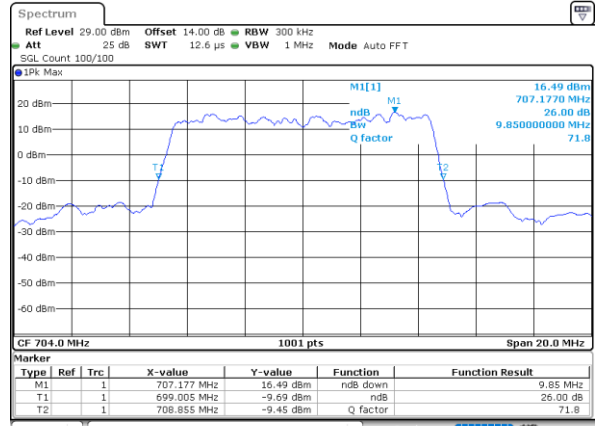


LTE Band 12

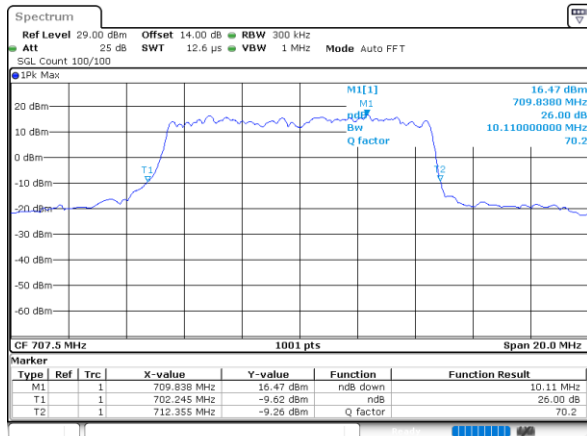
Lowest Channel / 10MHz / QPSK



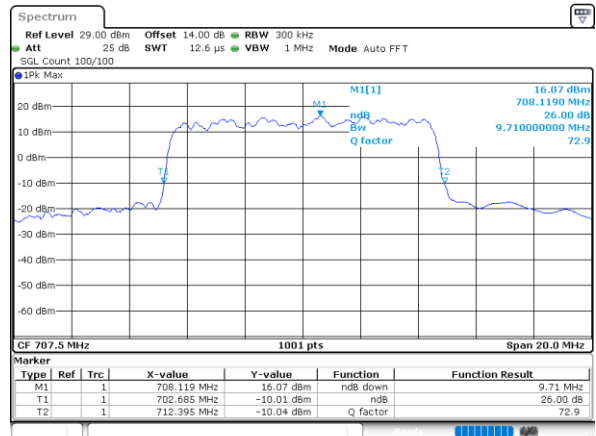
Lowest Channel / 10MHz / 16QAM



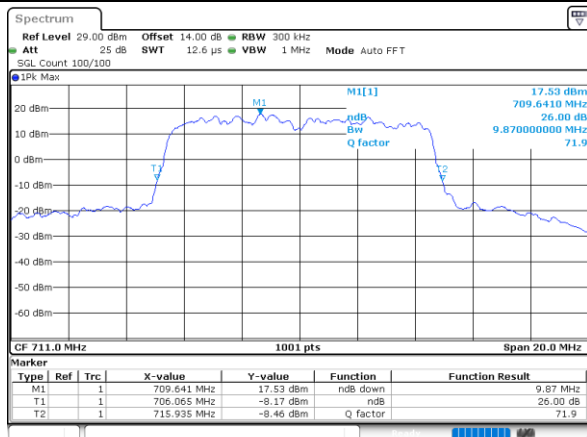
Middle Channel / 10MHz / QPSK



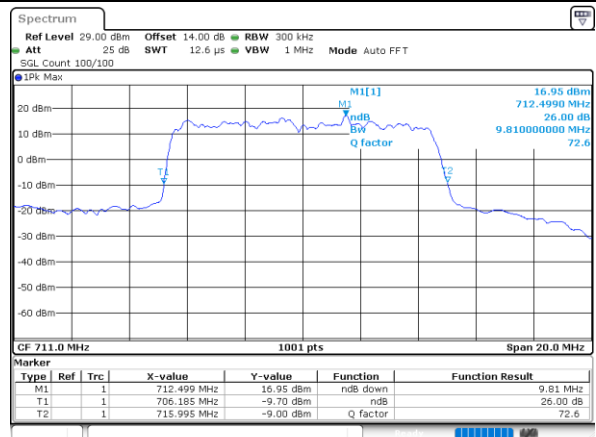
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM



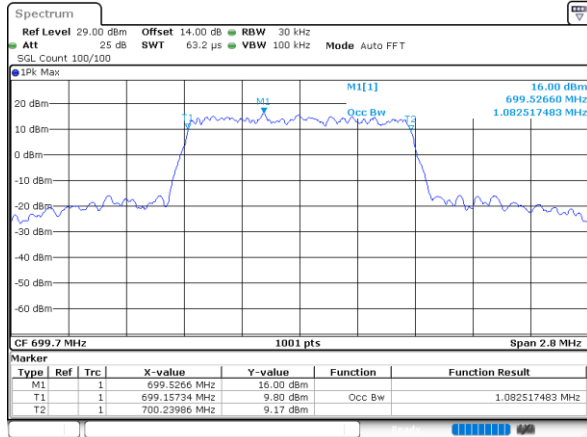
**Occupied Bandwidth**

Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz					
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM				
Lowest CH	1.08	1.11	2.76	2.73	4.48	4.49	9.09	9.05				
Middle CH	1.10	1.09	2.73	2.73	4.50	4.50	9.03	9.05				
Highest CH	1.09	1.09	2.71	2.72	4.47	4.49	9.05	9.01				

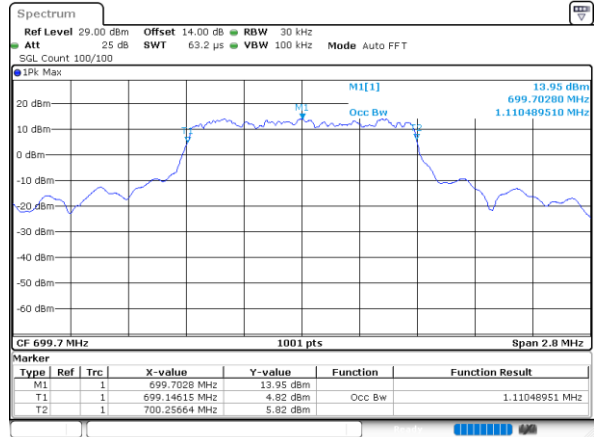


LTE Band 12

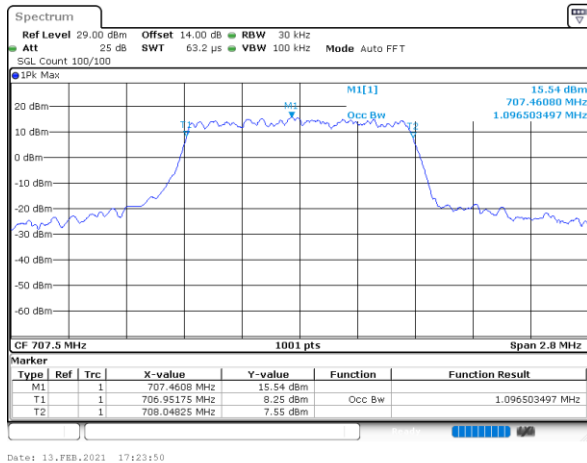
Lowest Channel / 1.4MHz / QPSK



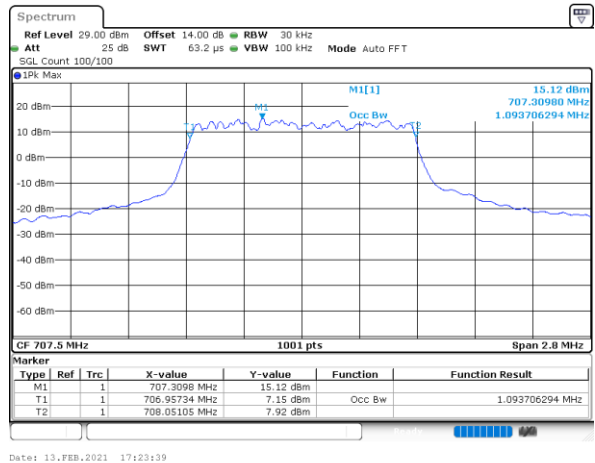
Lowest Channel / 1.4MHz / 16QAM



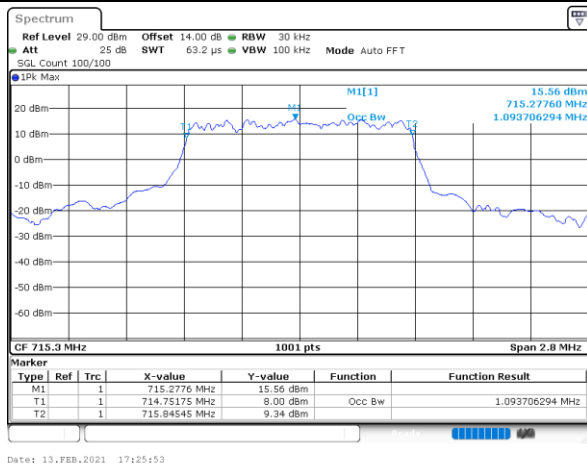
Middle Channel / 1.4MHz / QPSK



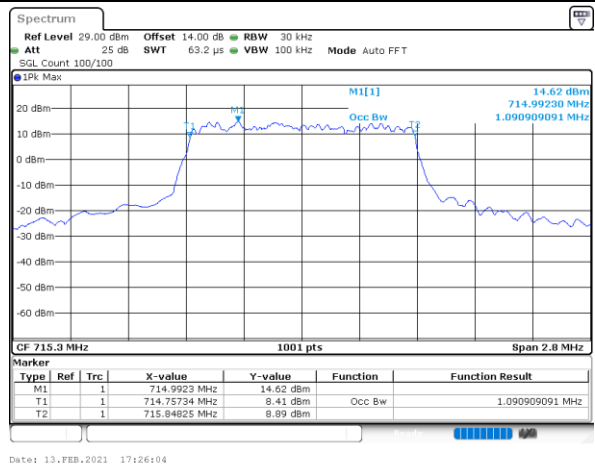
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



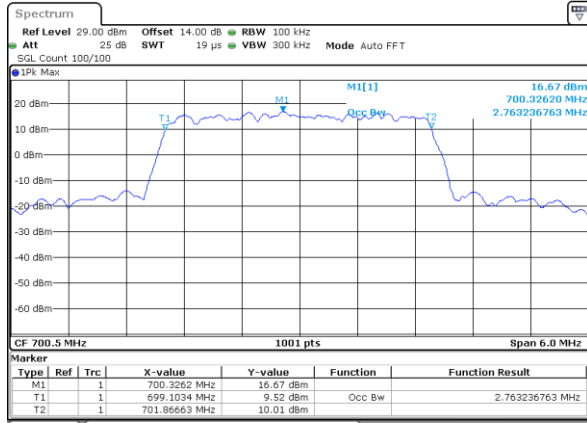
Highest Channel / 1.4MHz / 16QAM





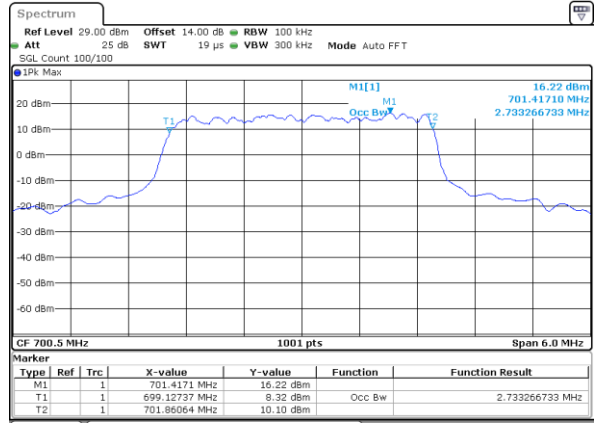
LTE Band 12

Lowest Channel / 3MHz / QPSK



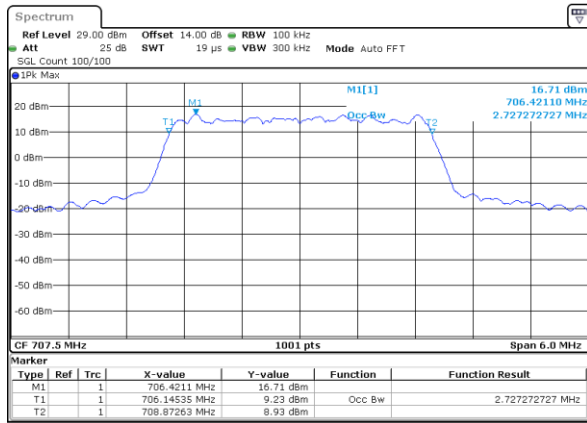
Date: 13.FEB.2021 16:22:54

Lowest Channel / 3MHz / 16QAM



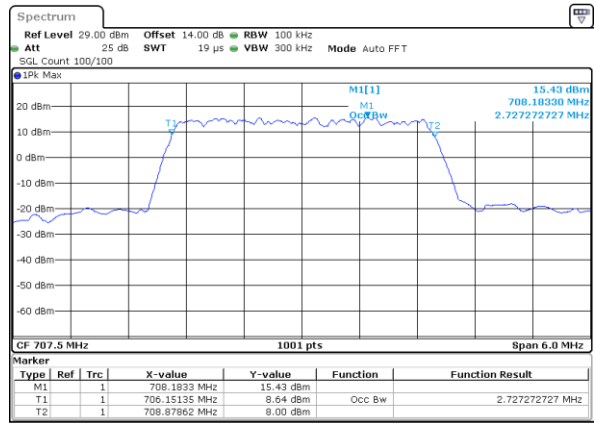
Date: 13.FEB.2021 16:23:06

Middle Channel / 3MHz / QPSK



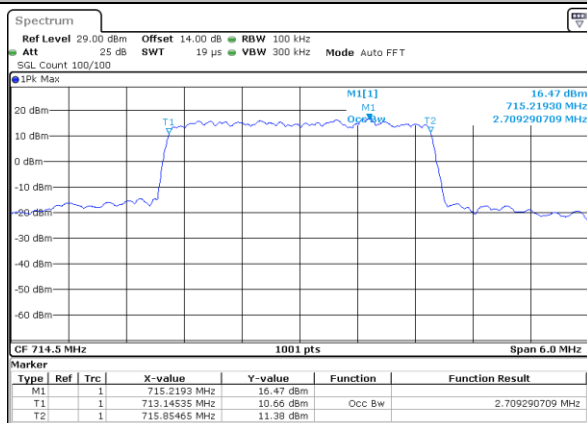
Date: 13.FEB.2021 16:28:57

Middle Channel / 3MHz / 16QAM



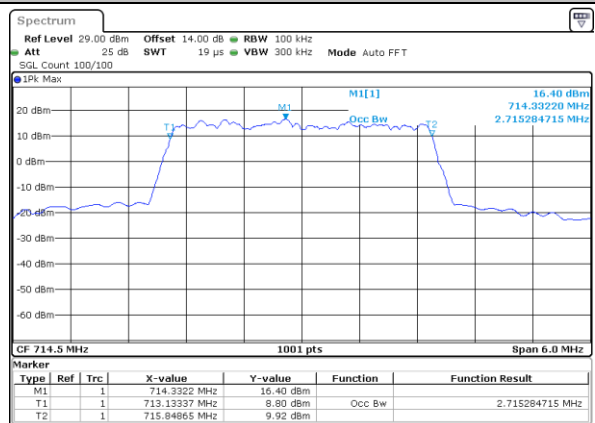
Date: 13.FEB.2021 16:28:46

Highest Channel / 3MHz / QPSK



Date: 13.FEB.2021 16:30:59

Highest Channel / 3MHz / 16QAM

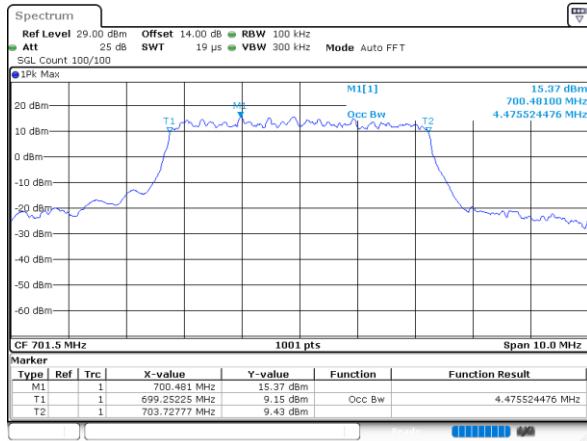


Date: 13.FEB.2021 16:31:11

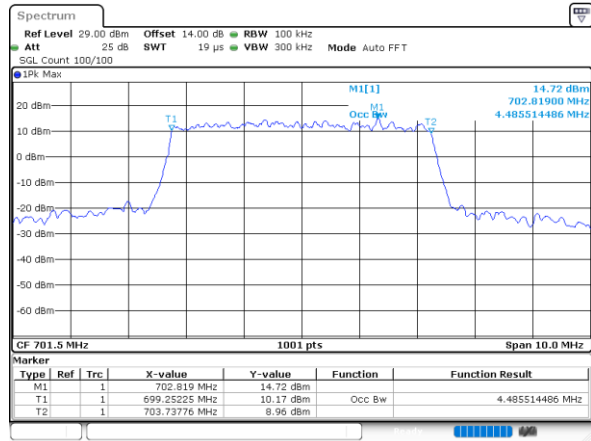


LTE Band 12

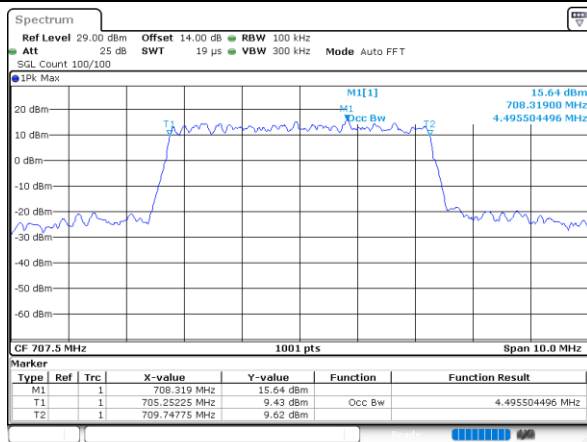
Lowest Channel / 5MHz / QPSK



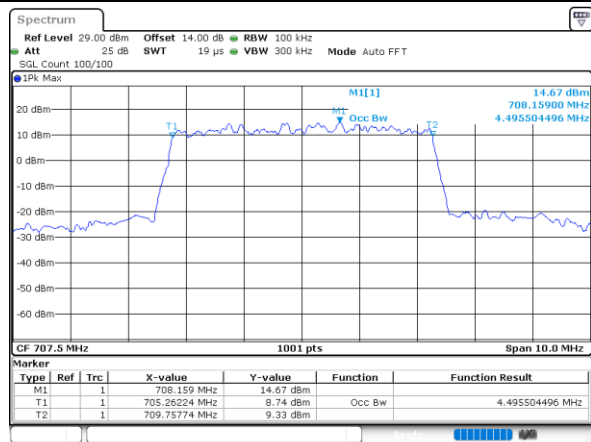
Lowest Channel / 5MHz / 16QAM



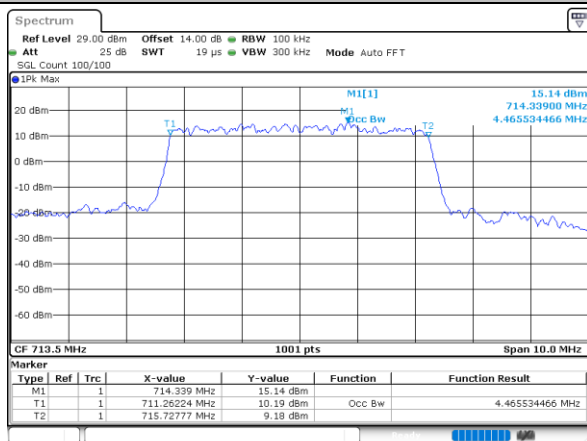
Middle Channel / 5MHz / QPSK



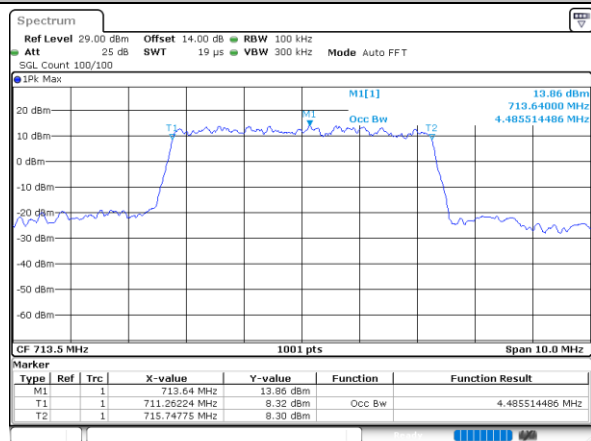
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



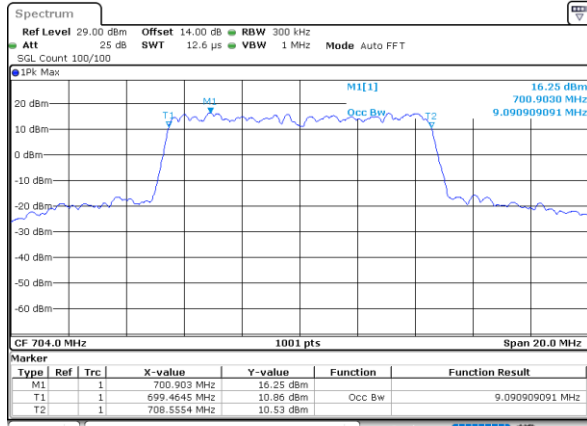
Highest Channel / 5MHz / 16QAM





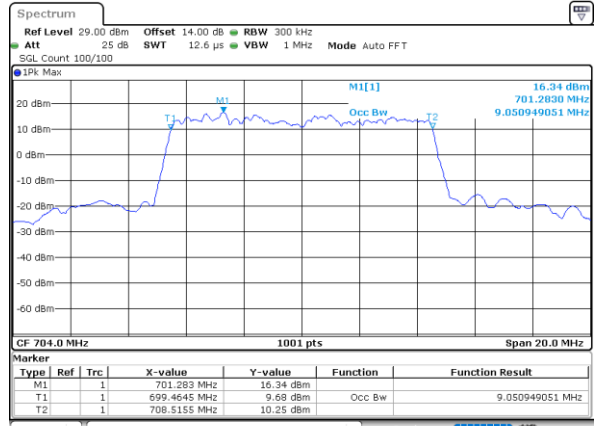
LTE Band 12

Lowest Channel / 10MHz / QPSK



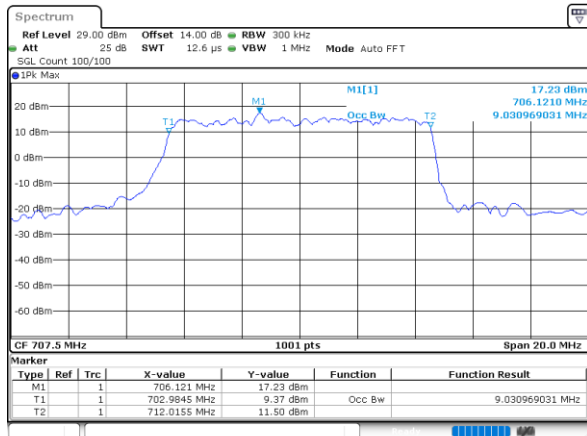
Date: 13.FEB.2021 16:50:49

Lowest Channel / 10MHz / 16QAM



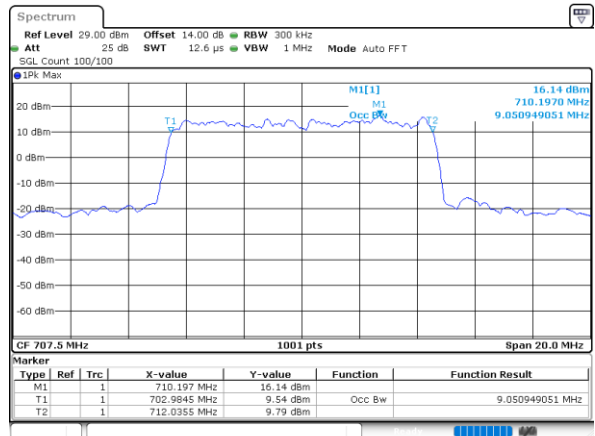
Date: 13.FEB.2021 16:51:01

Middle Channel / 10MHz / QPSK



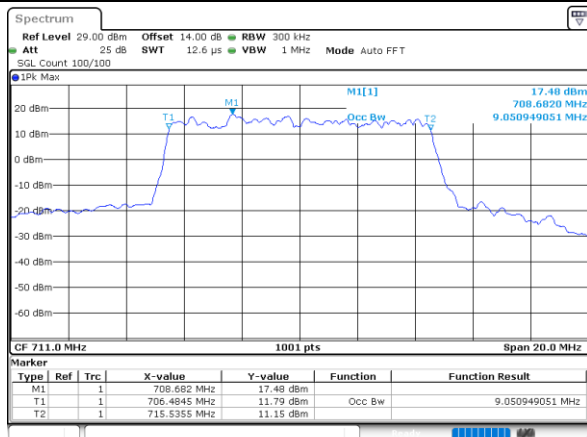
Date: 13.FEB.2021 16:56:51

Middle Channel / 10MHz / 16QAM



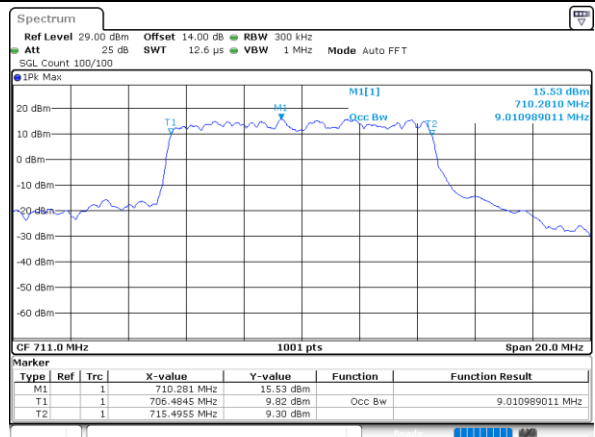
Date: 13.FEB.2021 16:56:40

Highest Channel / 10MHz / QPSK



Date: 13.FEB.2021 16:58:54

Highest Channel / 10MHz / 16QAM



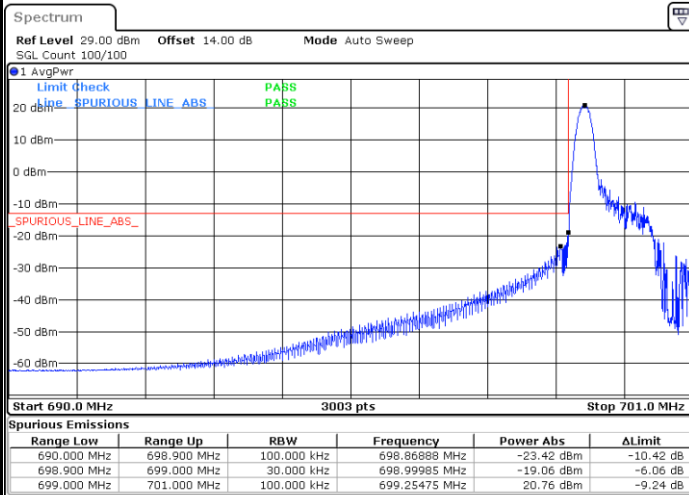
Date: 13.FEB.2021 16:59:06



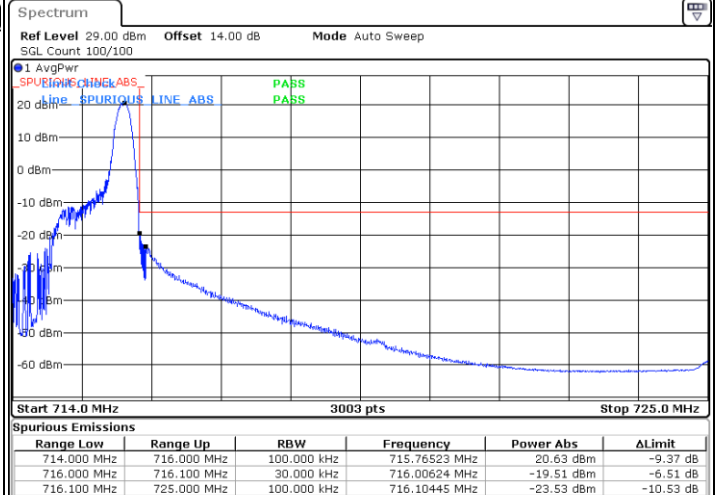
Conducted Band Edge

LTE Band 12 / 1.4MHz / QPSK

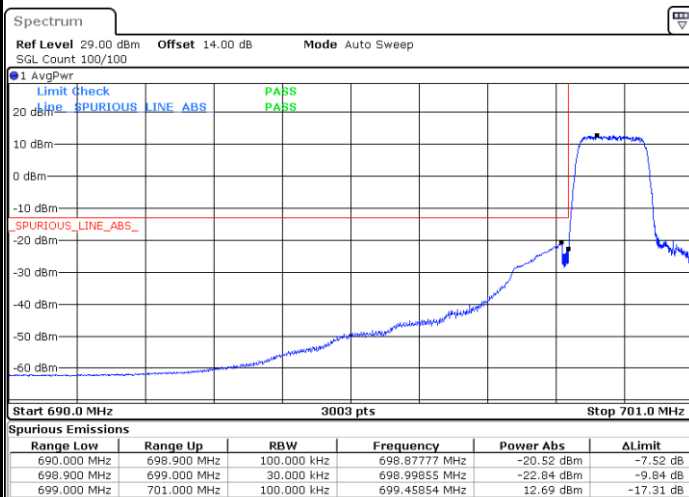
Lowest Band Edge / 1 RB



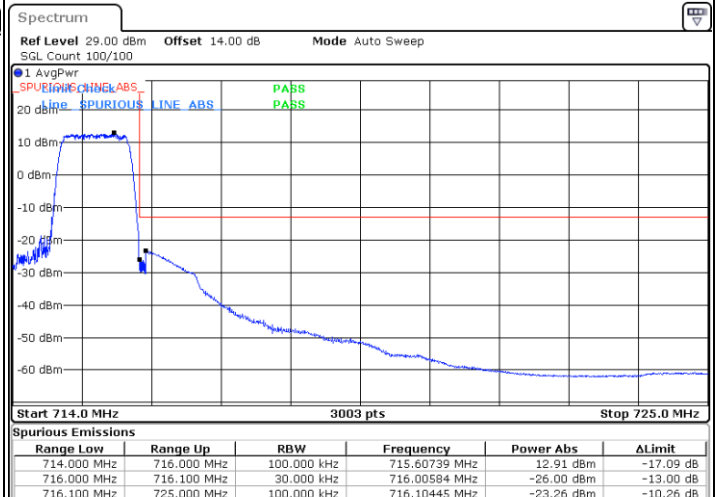
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



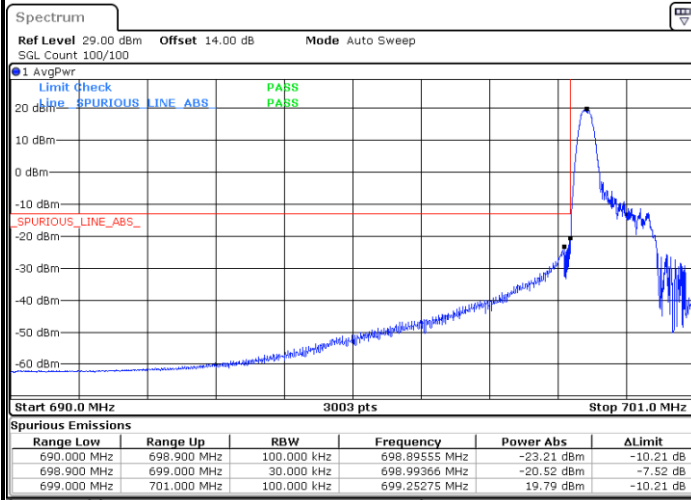
Highest Band Edge / Full RB



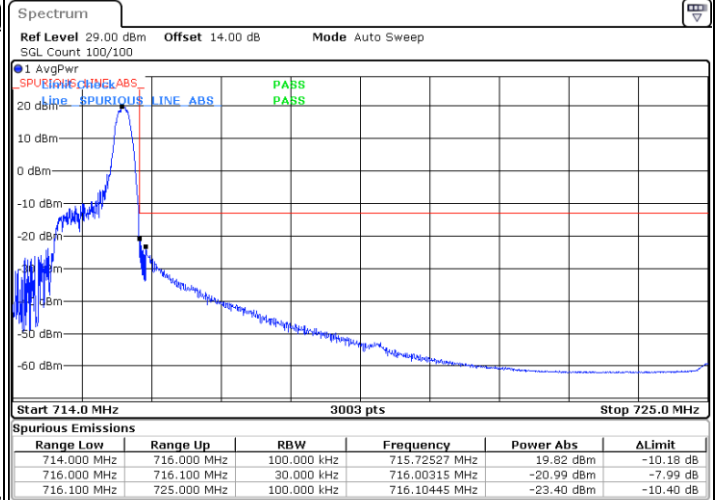


LTE Band 12 / 1.4MHz / 16QAM

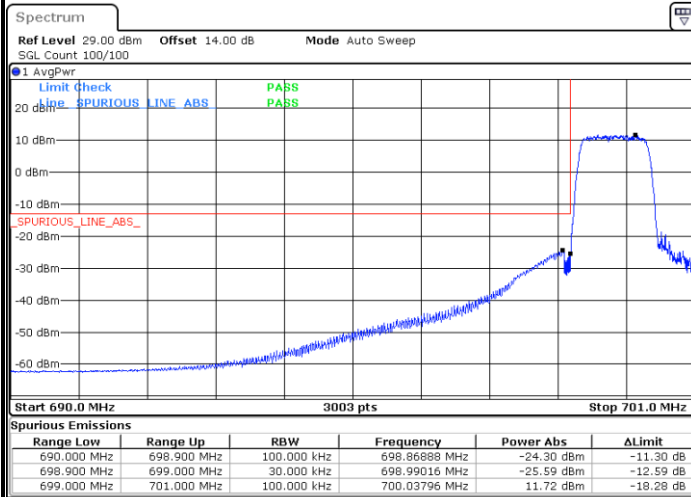
Lowest Band Edge / 1 RB



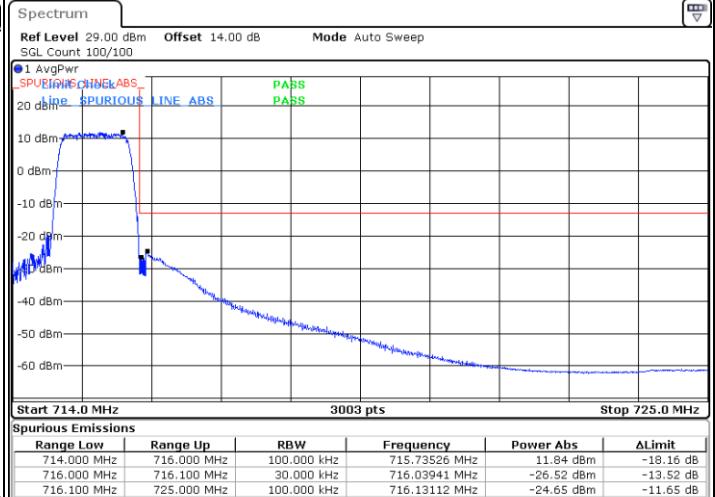
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



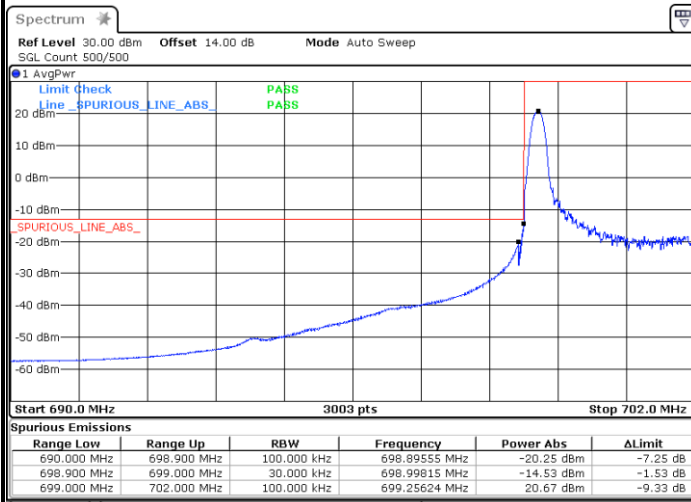
Highest Band Edge / Full RB



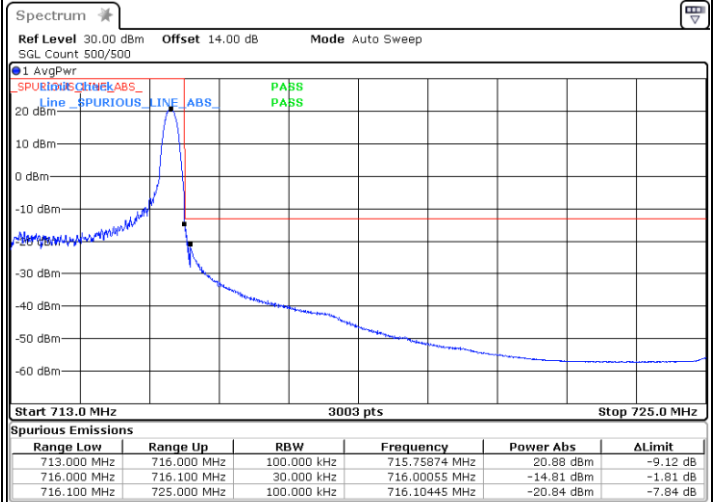


LTE Band 12 / 3MHz / QPSK

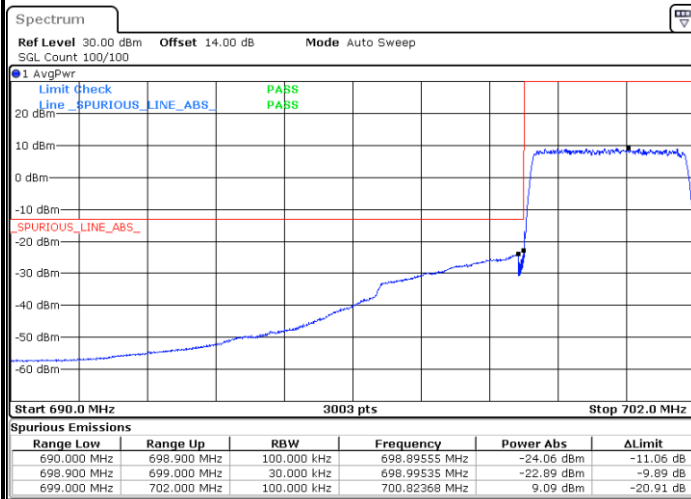
Lowest Band Edge / 1RB



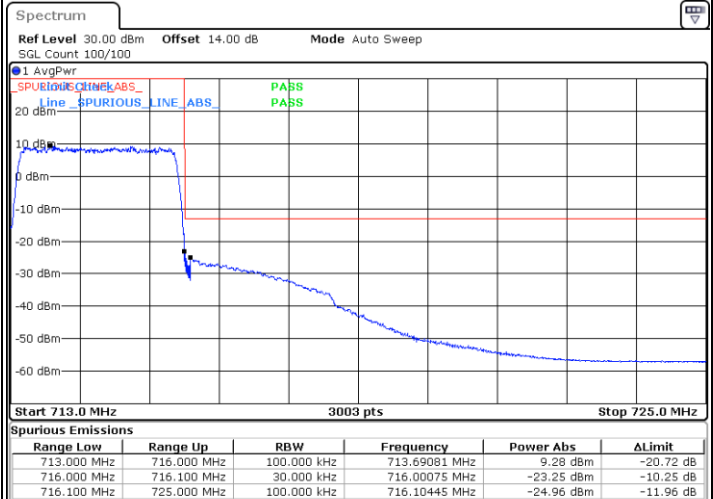
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



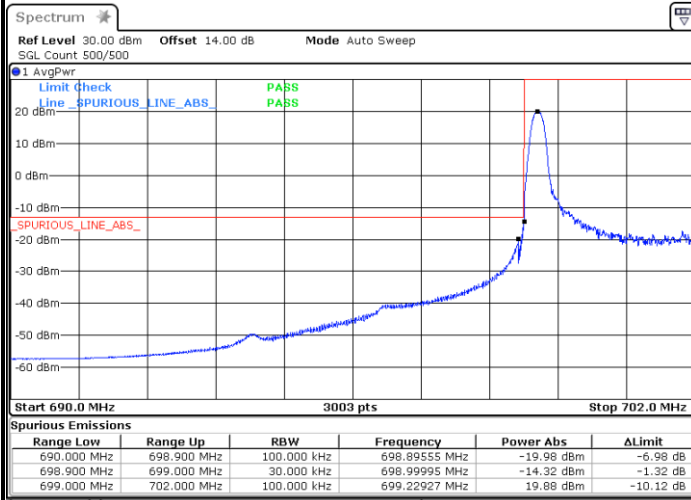
Highest Band Edge / Full RB



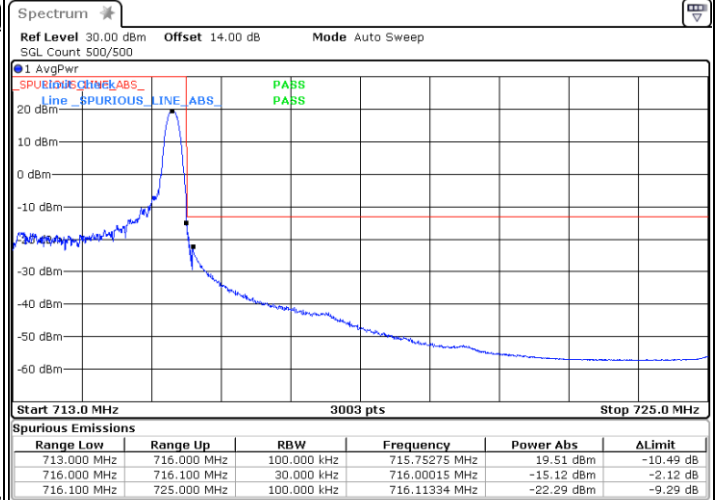


LTE Band 12 / 3MHz / 16QAM

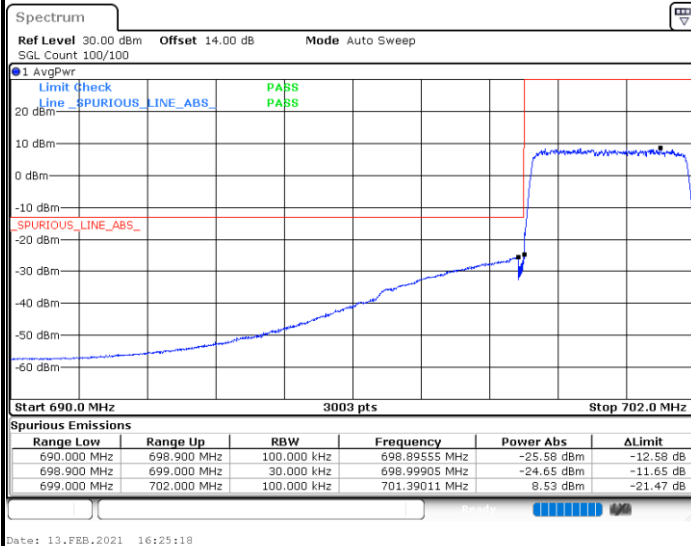
Lowest Band Edge / 1 RB



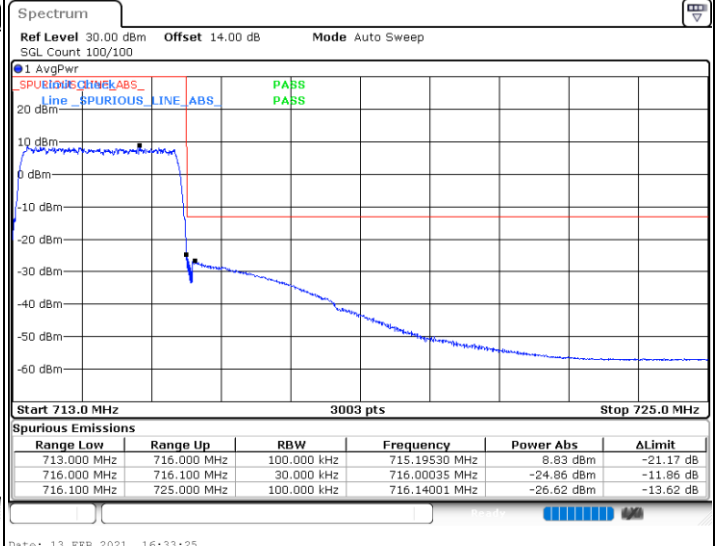
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



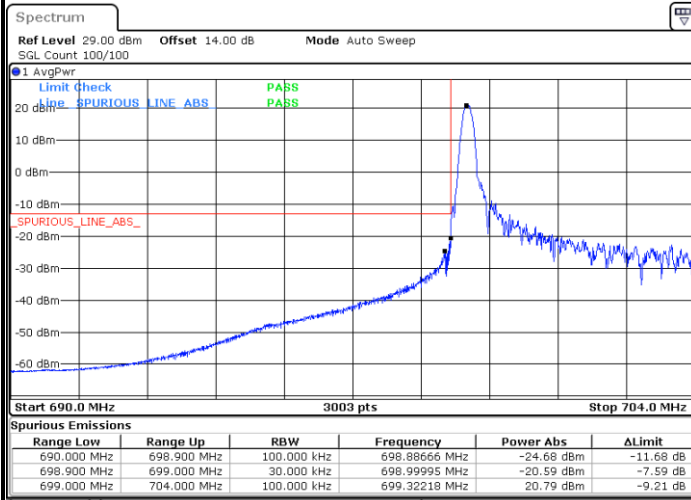
Highest Band Edge / Full RB



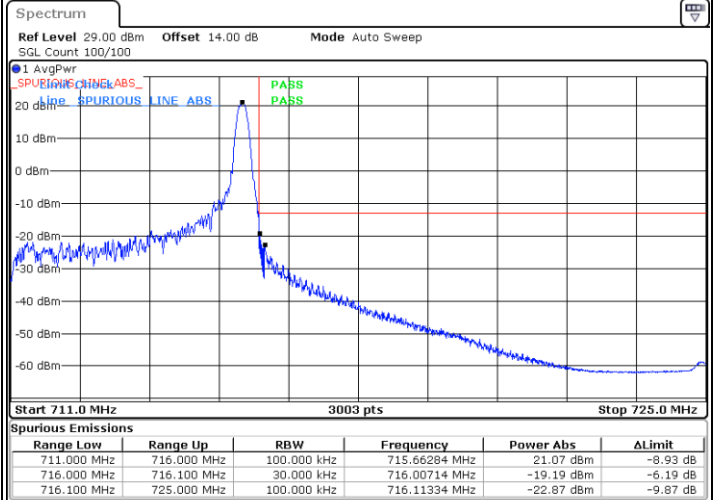


LTE Band 12 / 5MHz / QPSK

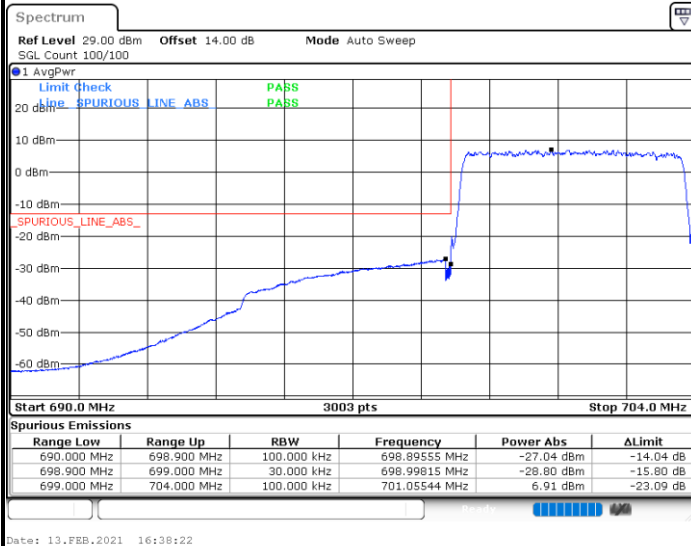
Lowest Band Edge / 1 RB



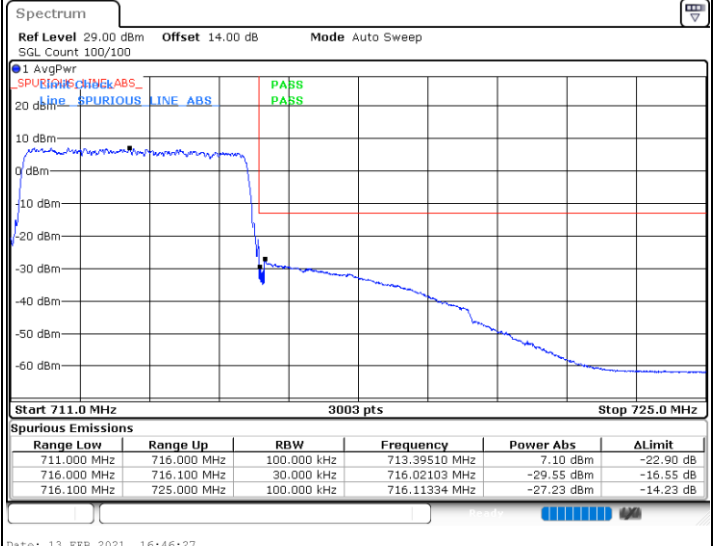
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



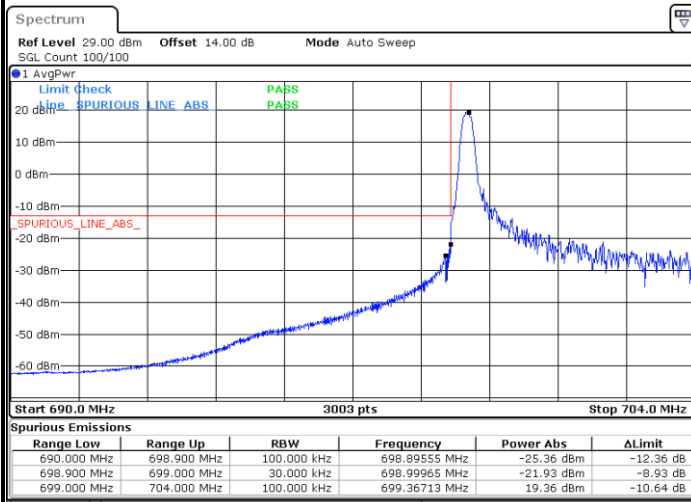
Highest Band Edge / Full RB



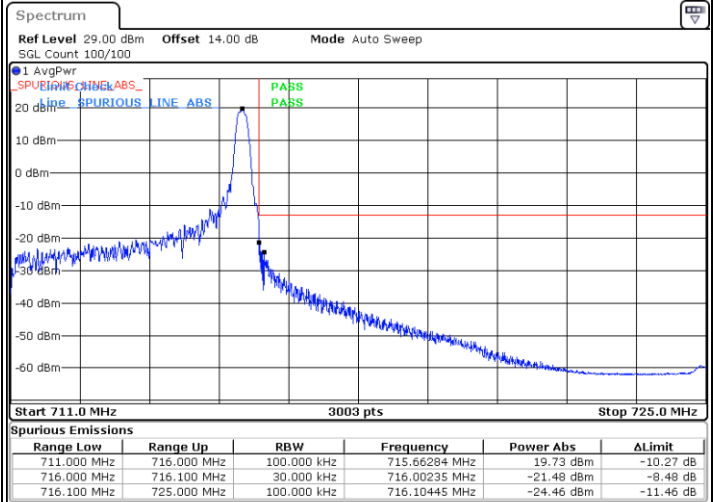


LTE Band 12 / 5MHz / 16QAM

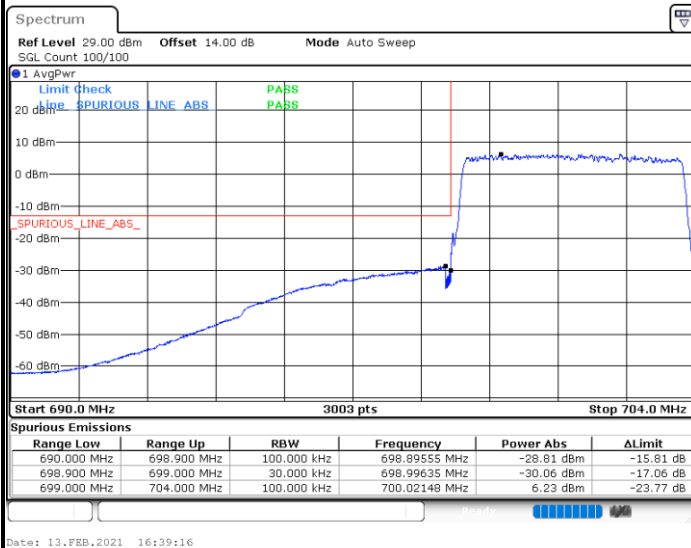
Lowest Band Edge / 1RB



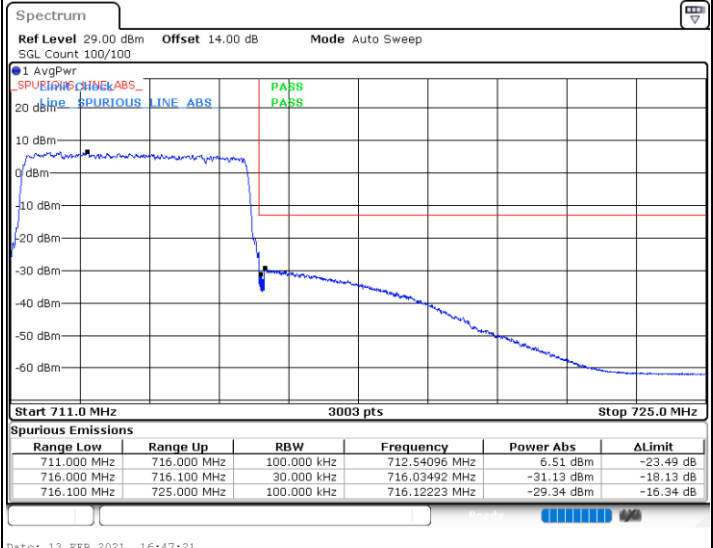
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



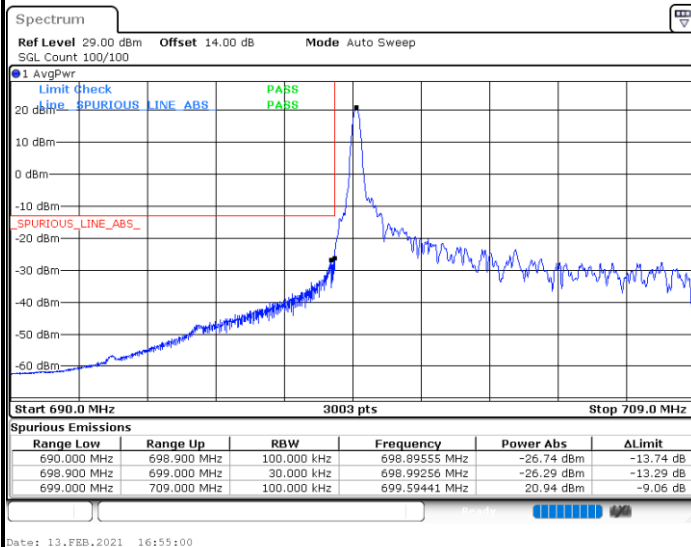
Highest Band Edge / Full RB



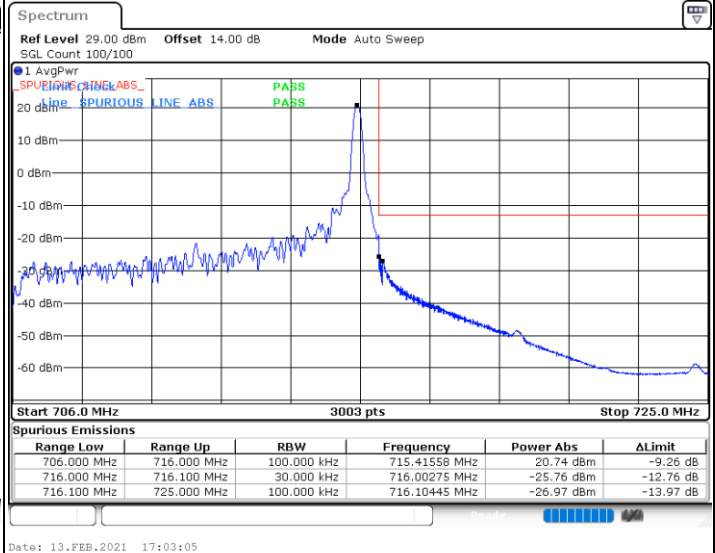


LTE Band 12 / 10MHz / QPSK

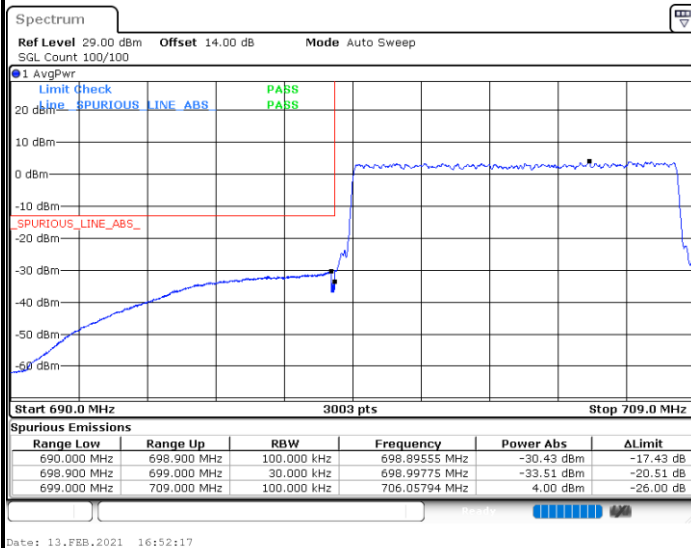
Lowest Band Edge / 1 RB



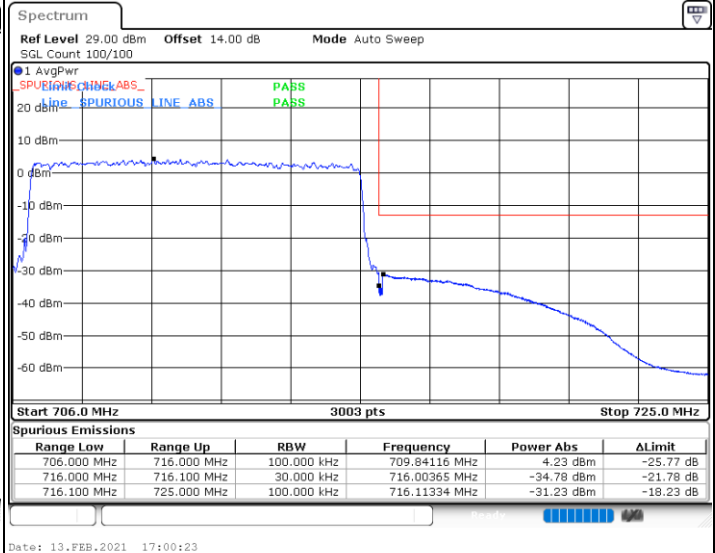
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



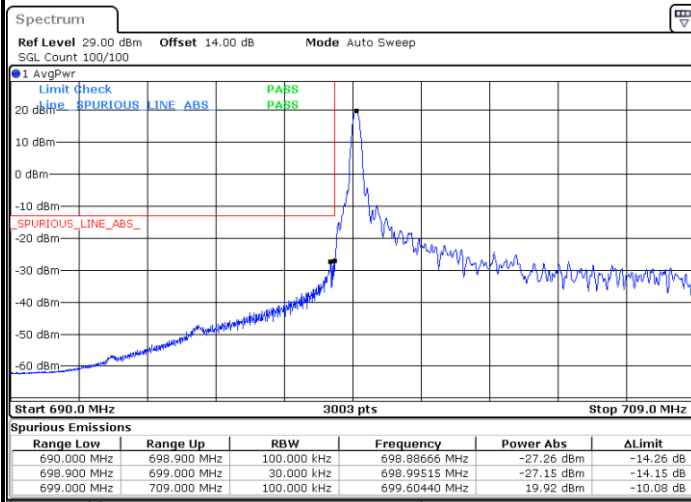
Highest Band Edge / Full RB



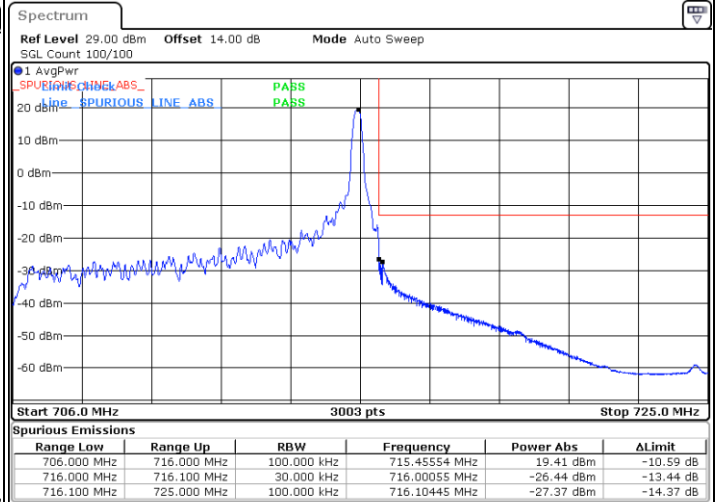


LTE Band 12 / 10MHz / 16QAM

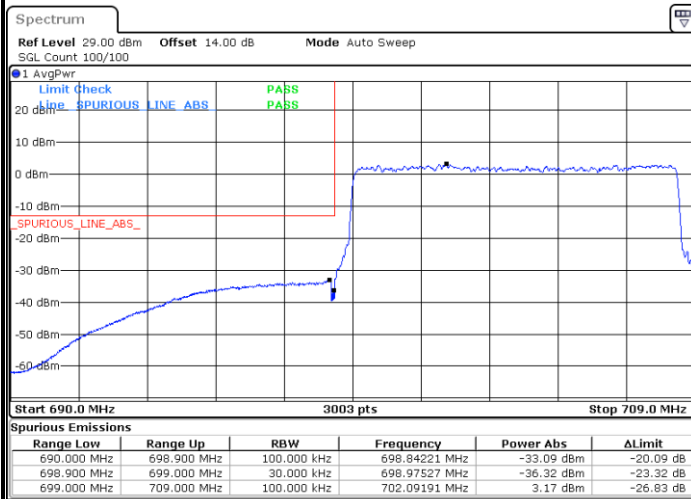
Lowest Band Edge / 1 RB



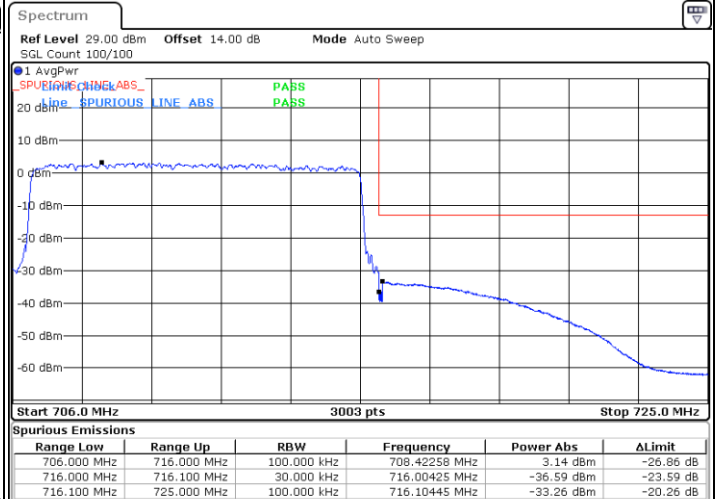
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

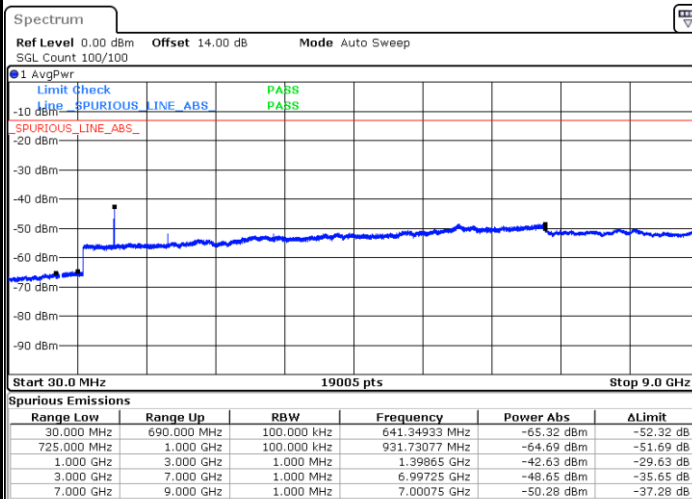




Conducted Spurious Emission

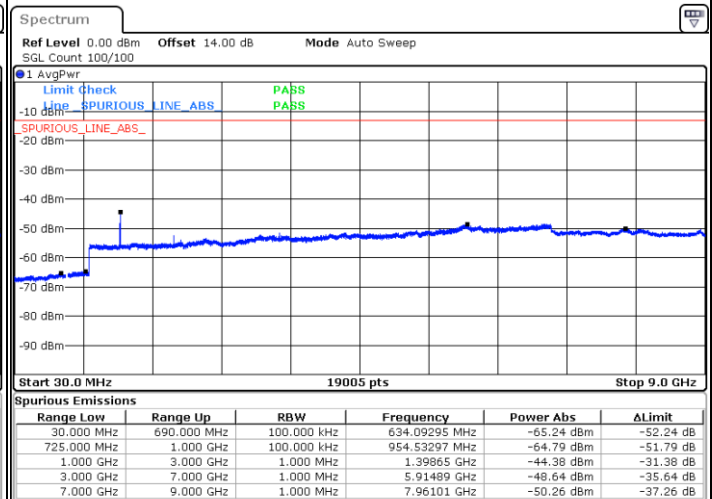
LTE Band 12 / 1.4MHz

Lowest Channel / QPSK



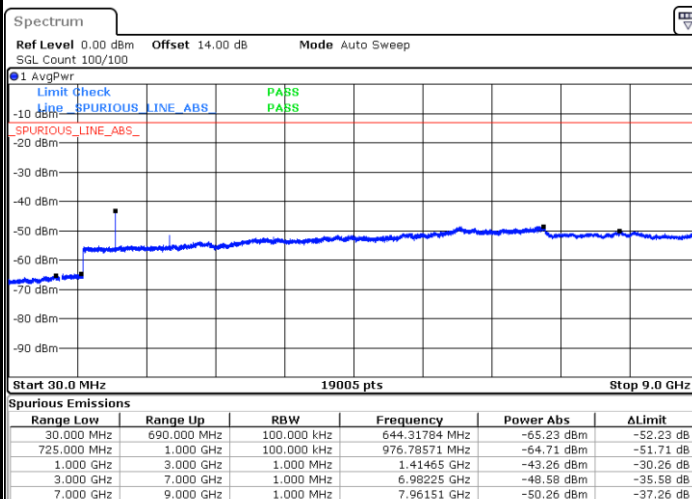
Date: 13.FEB.2021 17:22:43

Lowest Channel / 16QAM



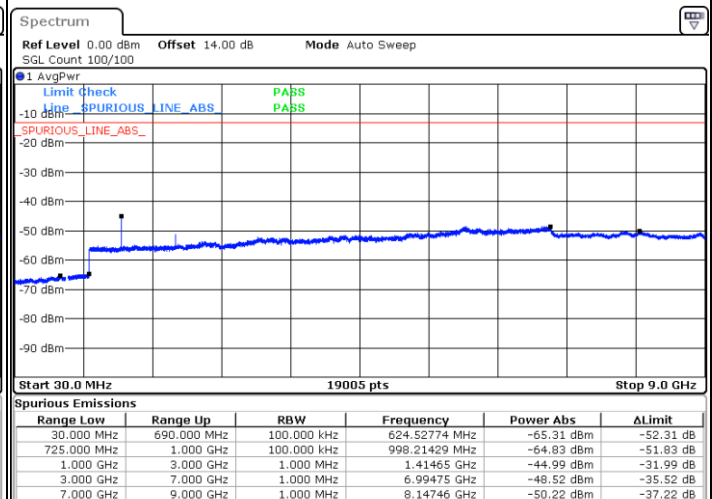
Date: 13.FEB.2021 17:23:28

Middle Channel / QPSK



Date: 13.FEB.2021 17:25:42

Middle Channel / 16QAM

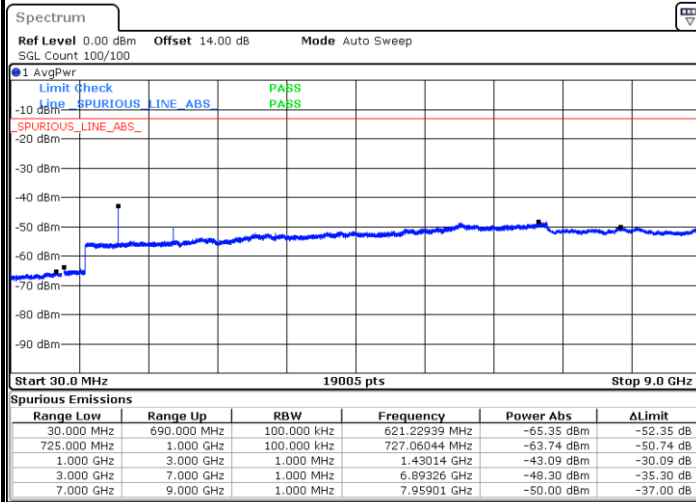


Date: 13.FEB.2021 17:24:57



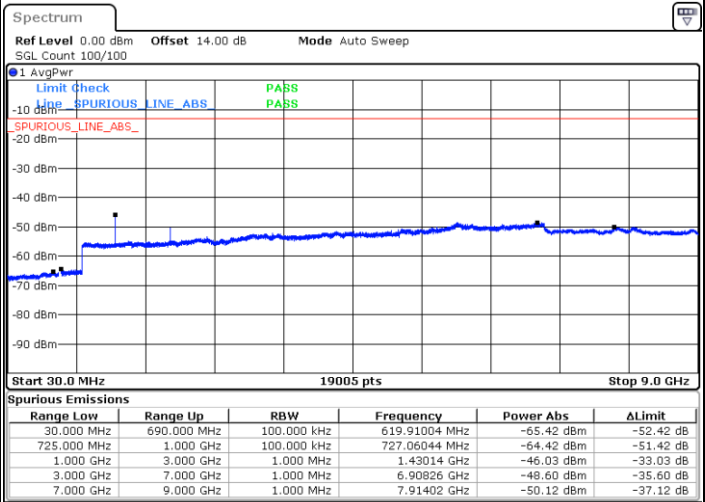
LTE Band 12 / 1.4MHz

Highest Channel / QPSK



Date: 13.FEB.2021 17:32:29

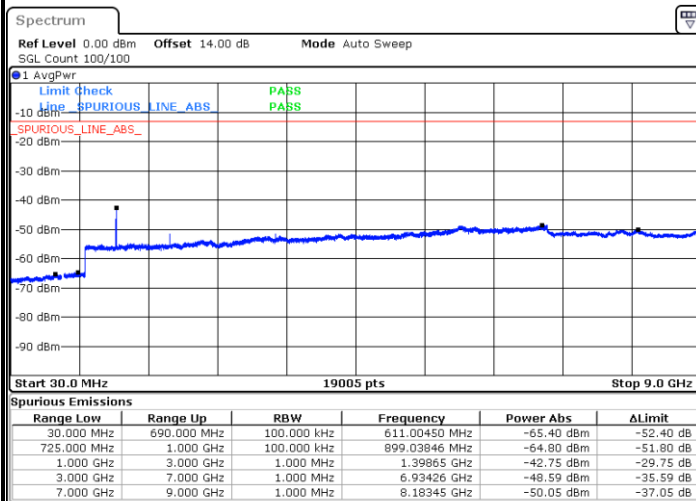
Highest Channel / 16QAM



Date: 13.FEB.2021 17:33:13

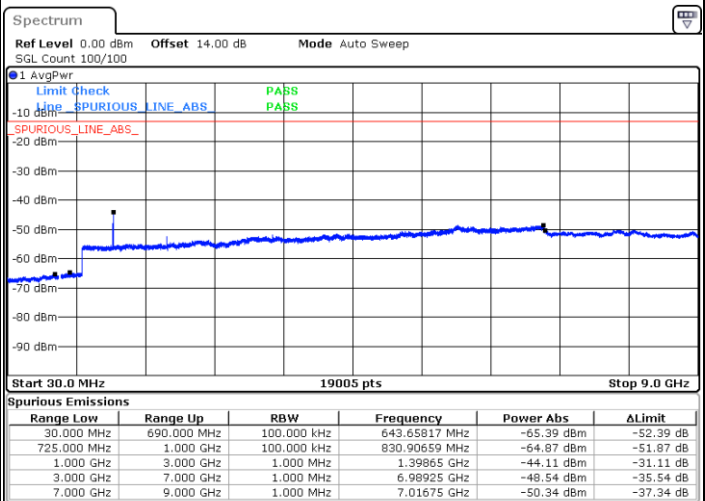
LTE Band 12 / 3MHz

Lowest Channel / QPSK



Date: 13.FEB.2021 16:27:51

Lowest Channel / 16QAM

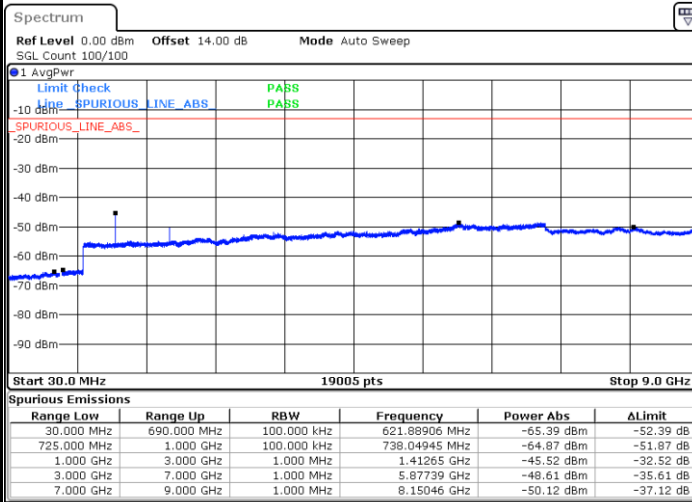


Date: 13.FEB.2021 16:28:35



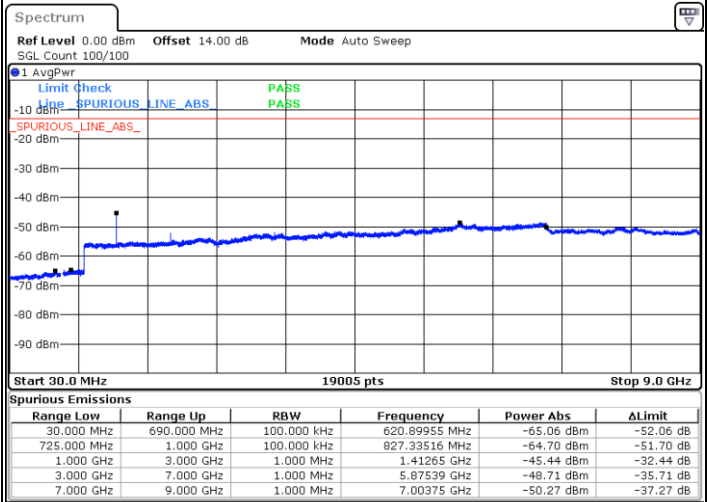
LTE Band 12 / 3MHz

Middle Channel / QPSK



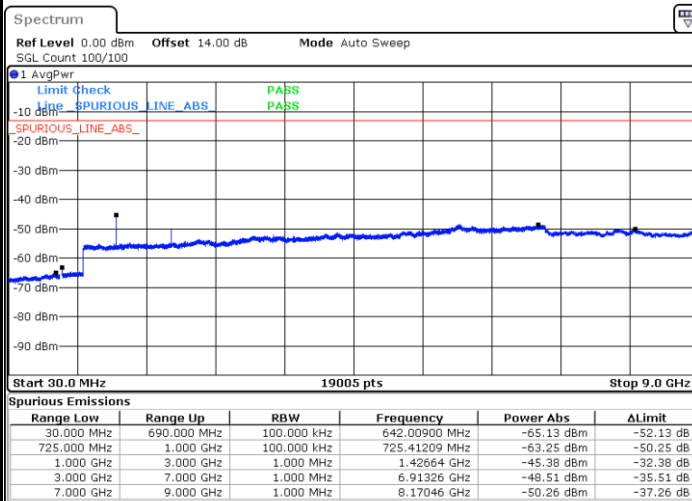
Date: 13.FEB.2021 16:30:48

Middle Channel / 16QAM



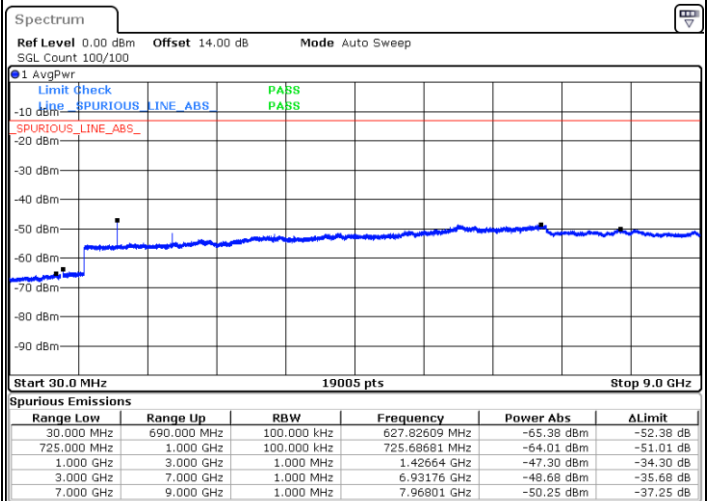
Date: 13.FEB.2021 16:30:04

Highest Channel / QPSK



Date: 13.FEB.2021 16:35:59

Highest Channel / 16QAM

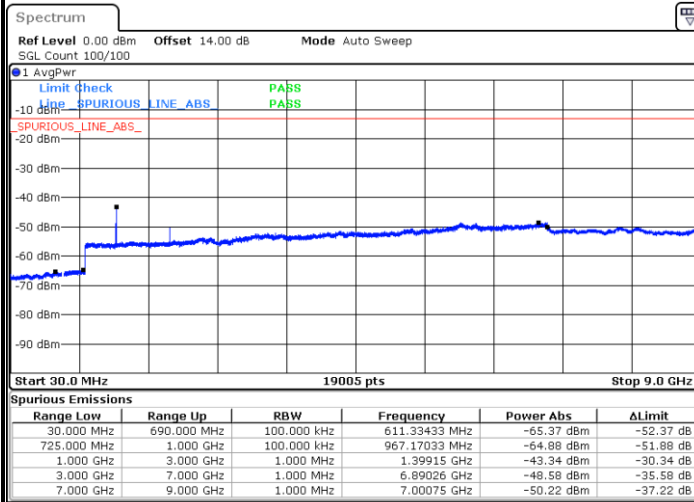


Date: 13.FEB.2021 16:36:43



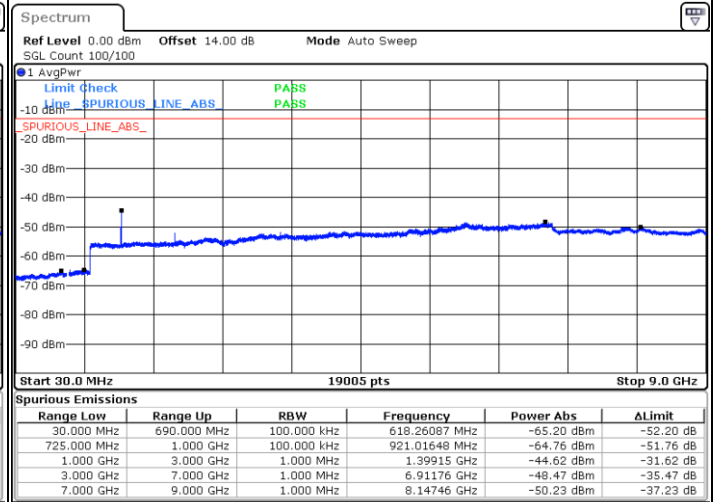
LTE Band 12 / 5MHz

Lowest Channel / QPSK



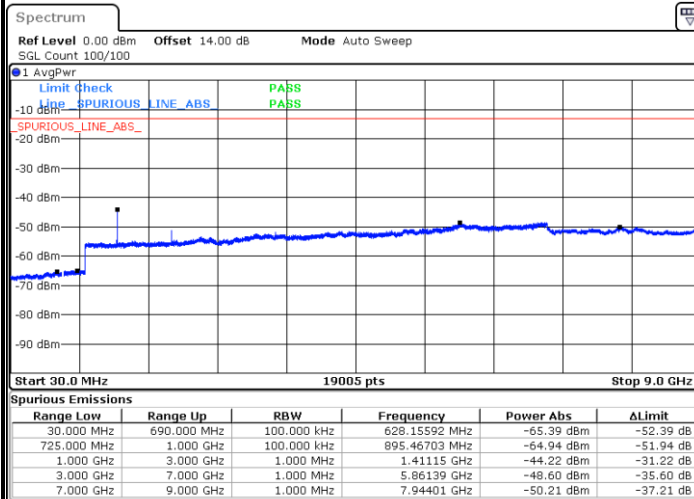
Date: 13.FEB.2021 16:41:49

Lowest Channel / 16QAM



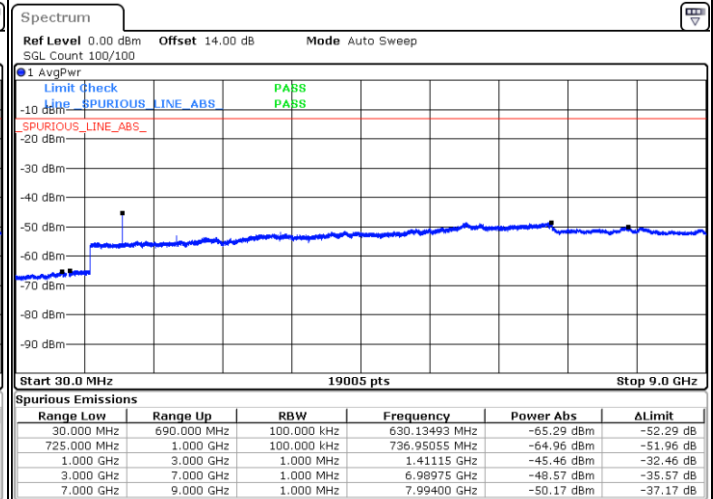
Date: 13.FEB.2021 16:42:33

Middle Channel / QPSK



Date: 13.FEB.2021 16:44:48

Middle Channel / 16QAM

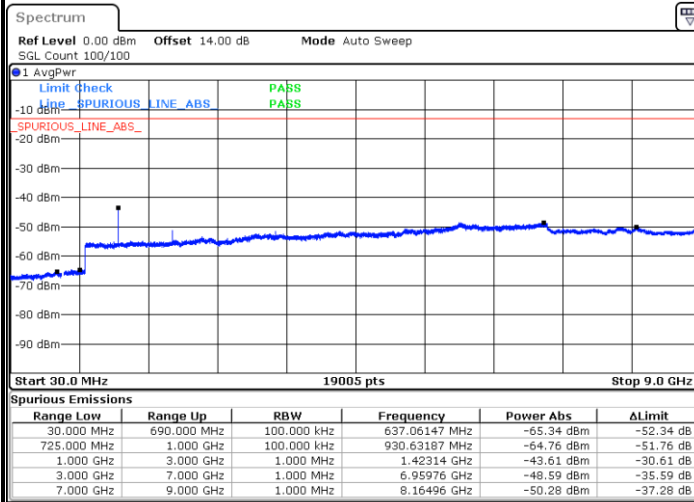


Date: 13.FEB.2021 16:44:03



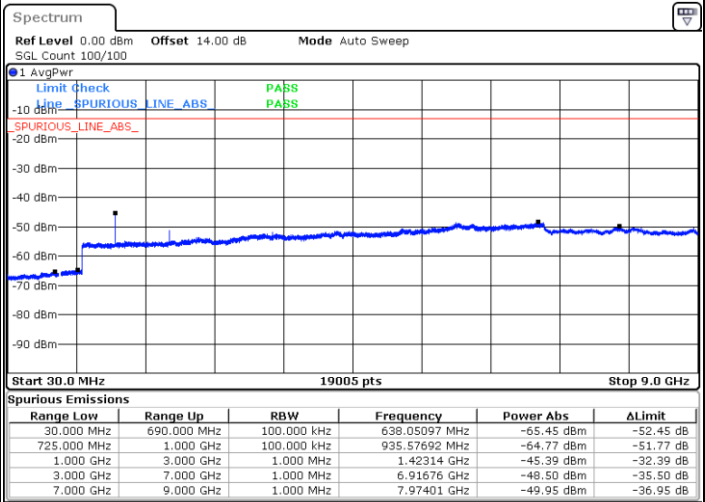
LTE Band 12 / 5MHz

Highest Channel / QPSK



Date: 13.FEB.2021 16:50:38

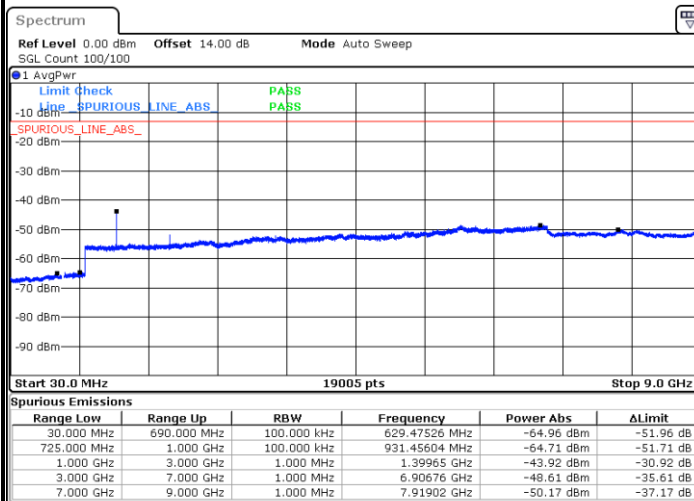
Highest Channel / 16QAM



Date: 13.FEB.2021 16:49:54

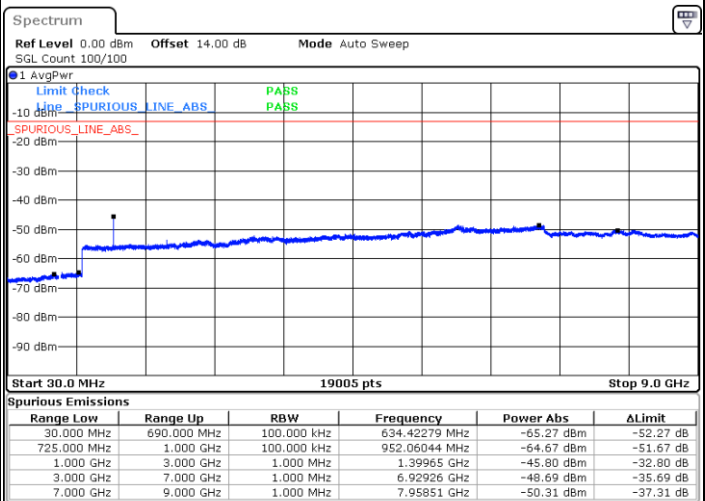
LTE Band 12 / 10MHz

Lowest Channel / QPSK



Date: 13.FEB.2021 16:55:45

Lowest Channel / 16QAM

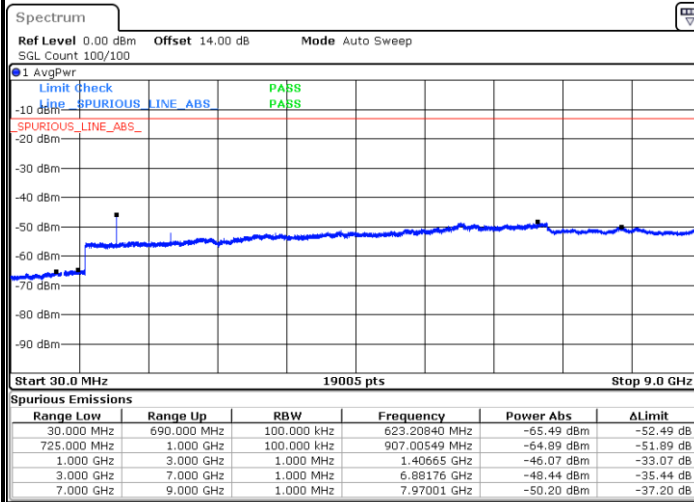


Date: 13.FEB.2021 16:56:29



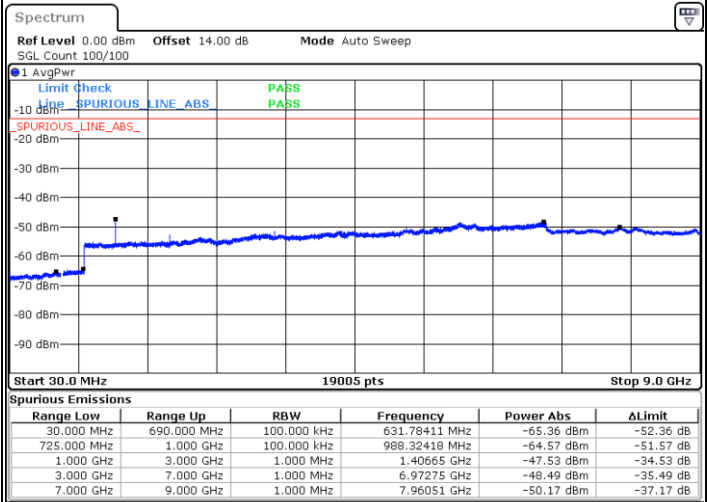
LTE Band 12 / 10MHz

Middle Channel / QPSK



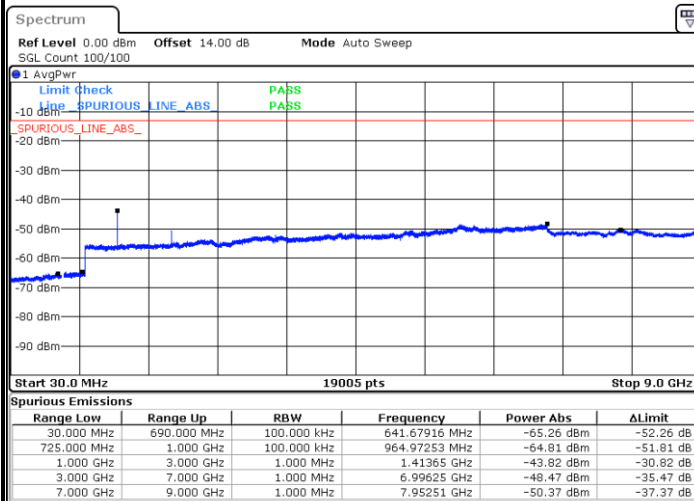
Date: 13.FEB.2021 16:58:43

Middle Channel / 16QAM



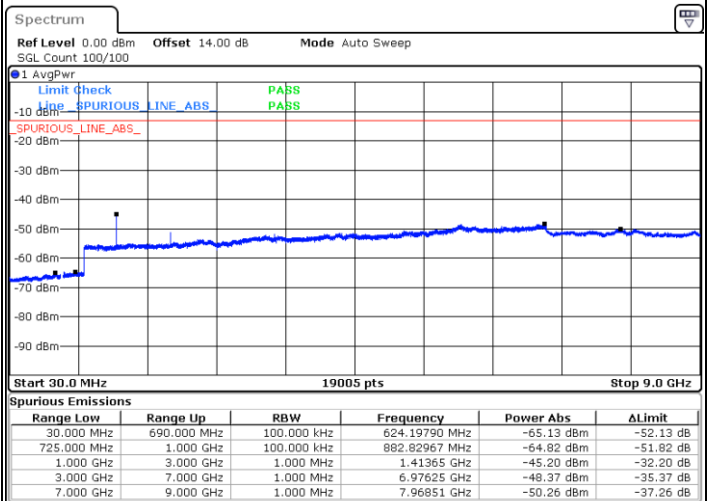
Date: 13.FEB.2021 16:57:59

Highest Channel / QPSK



Date: 13.FEB.2021 17:03:50

Highest Channel / 16QAM



Date: 13.FEB.2021 17:04:34

Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0141	PASS
40	Normal Voltage	0.0130	
30	Normal Voltage	0.0120	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0141	
0	Normal Voltage	0.0151	
-10	Normal Voltage	0.0165	
-20	Normal Voltage	0.0153	
-30	Normal Voltage	0.0000	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0148	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.3 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

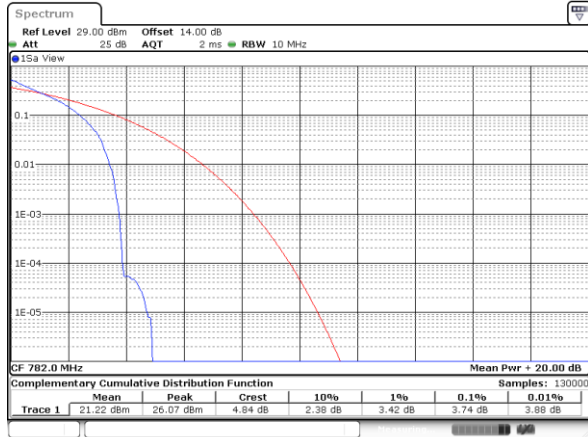
Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH					PASS
Middle CH	3.74	4.84	5.30	5.68	
Highest CH					

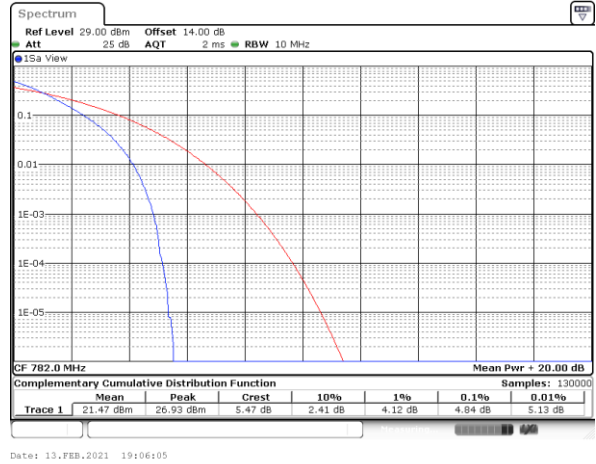


LTE Band 13 / 10MHz / QPSK

Middle Channel/ 1RB

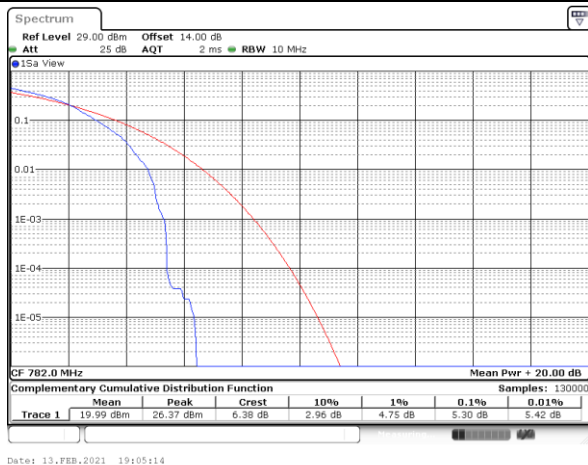


Middle Channel / Full RB

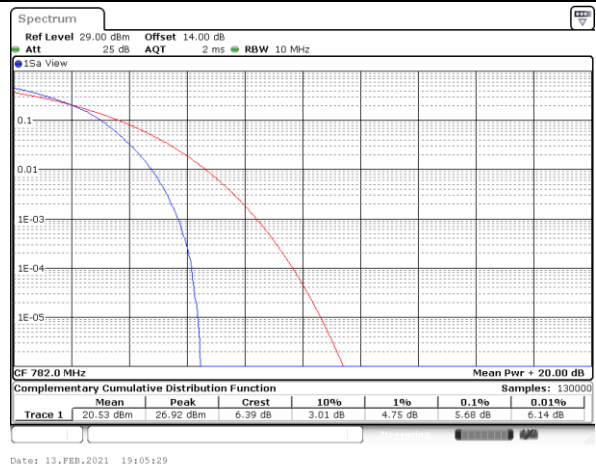


LTE Band 13 / 10MHz / 16QAM

Middle Channel/ 1RB



Middle Channel / Full RB





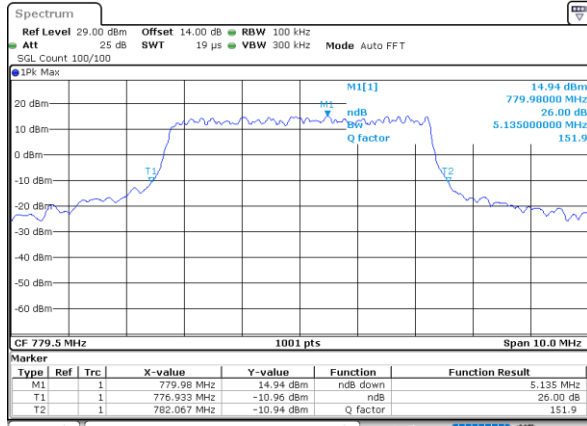
26dB Bandwidth

Mode	LTE Band 13 : 26dB BW(MHz)											
BW					5MHz		10MHz					
Mod.					QPSK	16QAM	QPSK	16QAM				
Lowest CH					5.14	4.86						
Middle CH					4.91	4.87	9.75	9.99				
Highest CH					4.98	4.92						

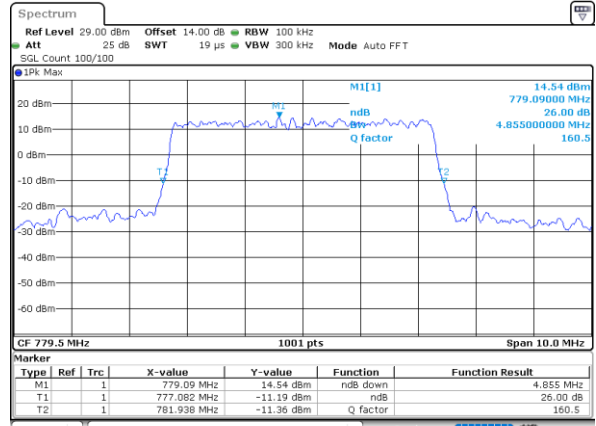


LTE Band 13

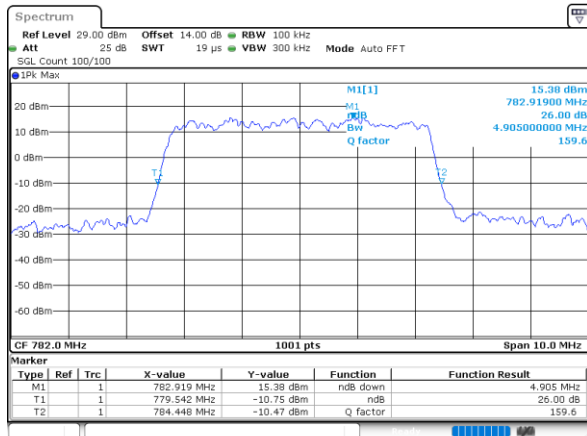
Lowest Channel / 5MHz / QPSK



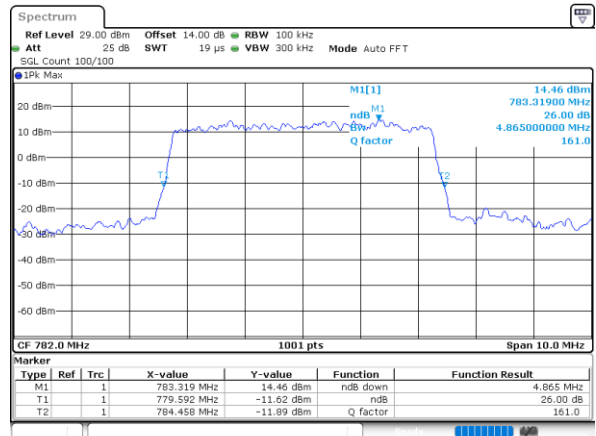
Lowest Channel / 5MHz / 16QAM



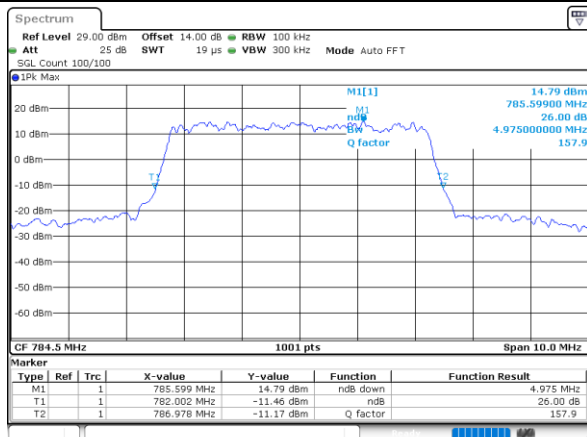
Middle Channel / 5MHz / QPSK



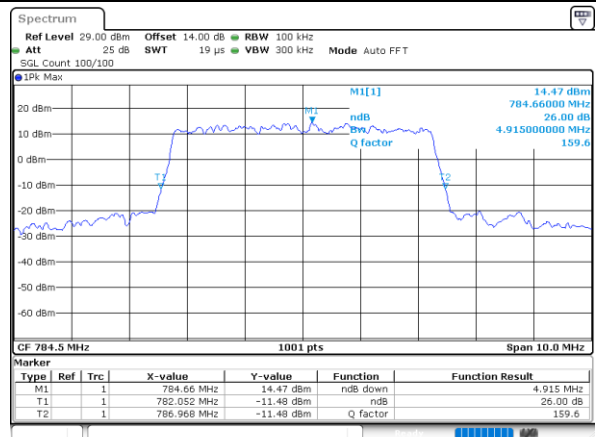
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



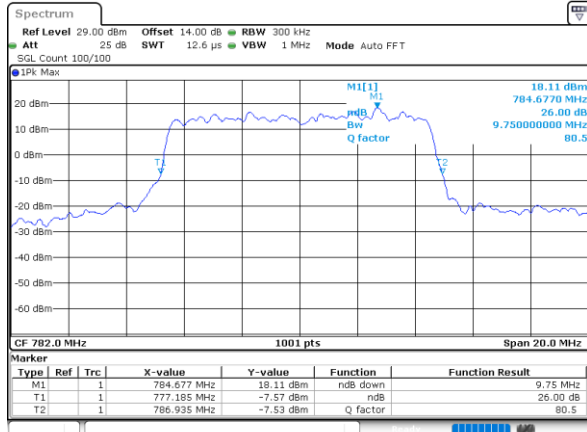
Highest Channel / 5MHz / 16QAM





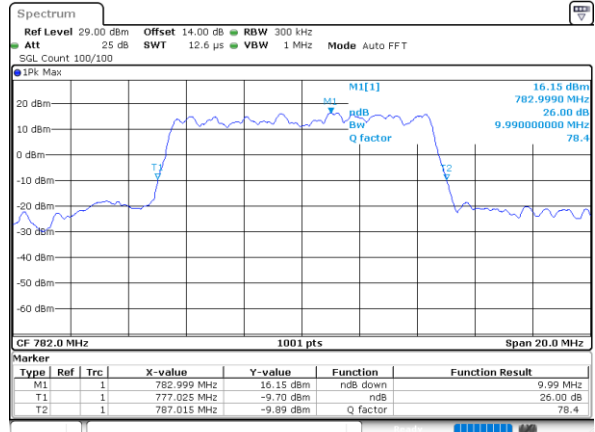
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 13.FEB.2021 18:52:27

Middle Channel / 10MHz / 16QAM



Date: 13.FEB.2021 18:52:15



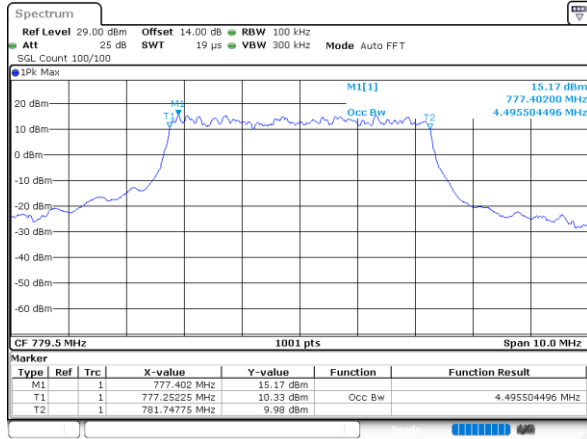
Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)											
BW					5MHz		10MHz					
Mod.					QPSK	16QAM	QPSK	16QAM				
Lowest CH					4.50	4.49						
Middle CH					4.49	4.47	8.97	8.99				
Highest CH					4.48	4.52						



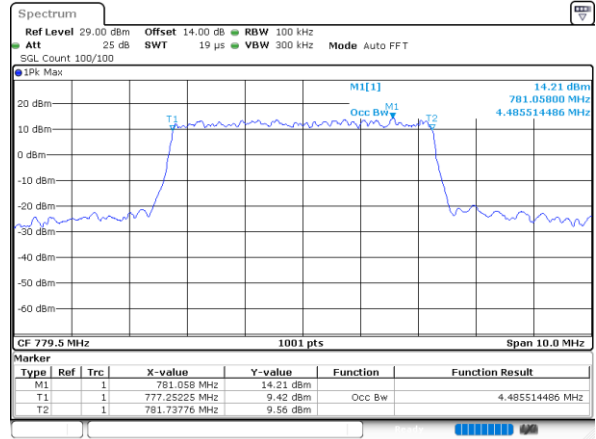
LTE Band 13

Lowest Channel / 5MHz / QPSK



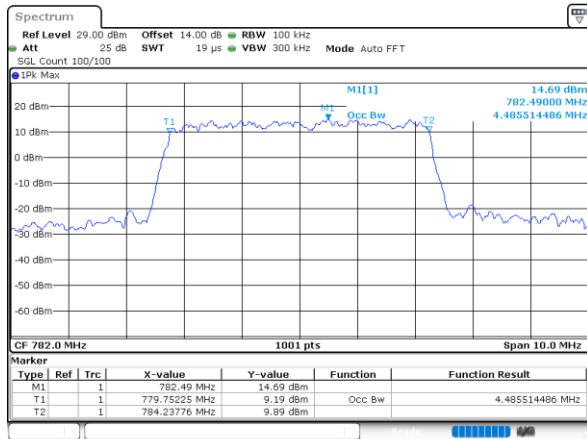
Date: 13.FEB.2021 18:31:50

Lowest Channel / 5MHz / 16QAM



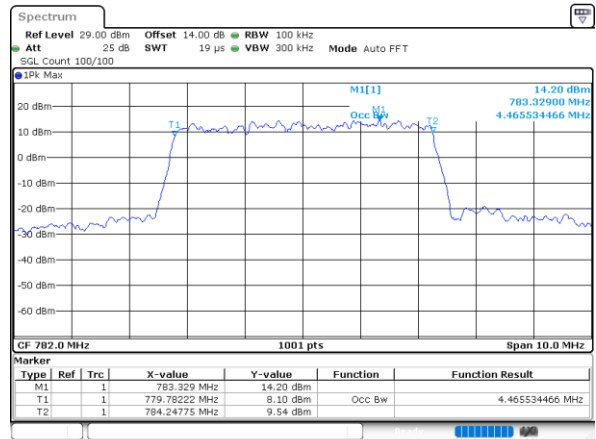
Date: 13.FEB.2021 18:32:09

Middle Channel / 5MHz / QPSK



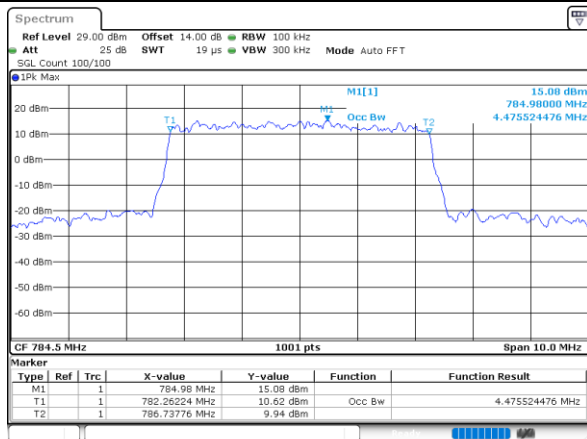
Date: 13.FEB.2021 18:42:51

Middle Channel / 5MHz / 16QAM



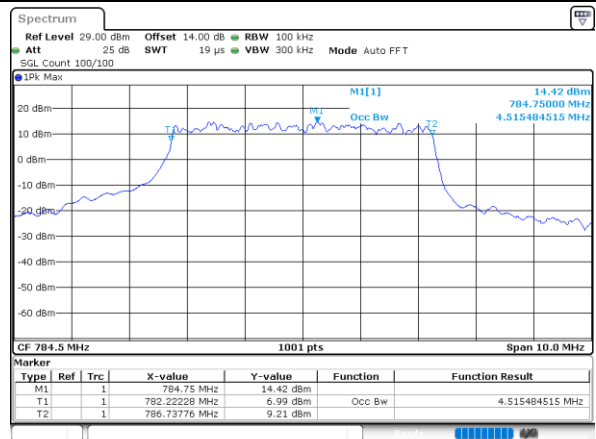
Date: 13.FEB.2021 18:42:39

Highest Channel / 5MHz / QPSK



Date: 13.FEB.2021 18:43:02

Highest Channel / 5MHz / 16QAM

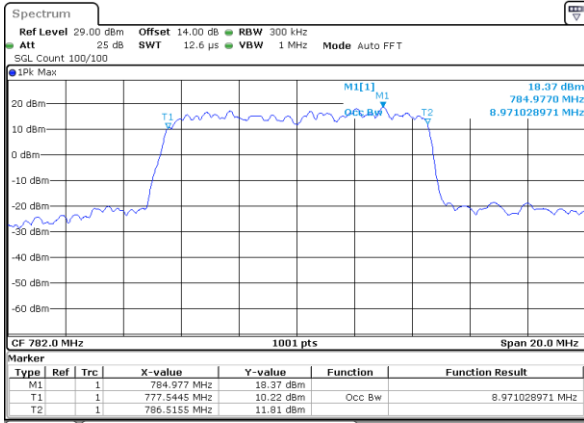


Date: 13.FEB.2021 18:43:13



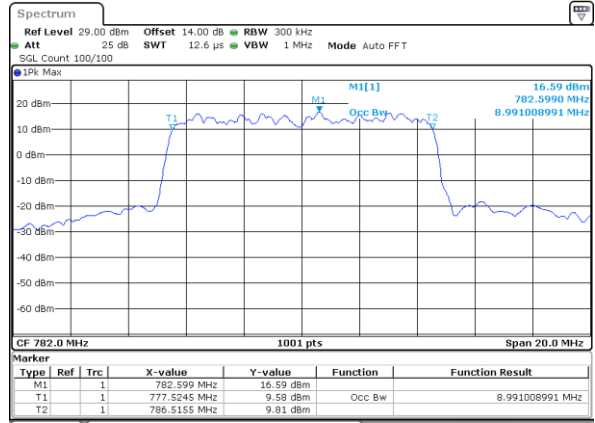
LTE Band 13

Middle Channel / 10MHz / QPSK

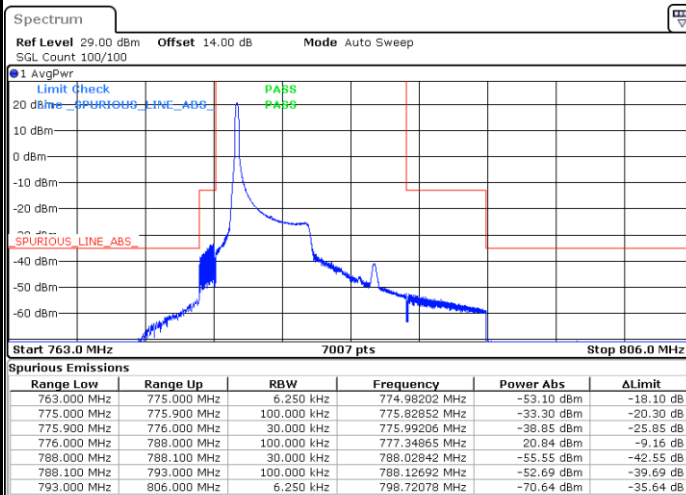
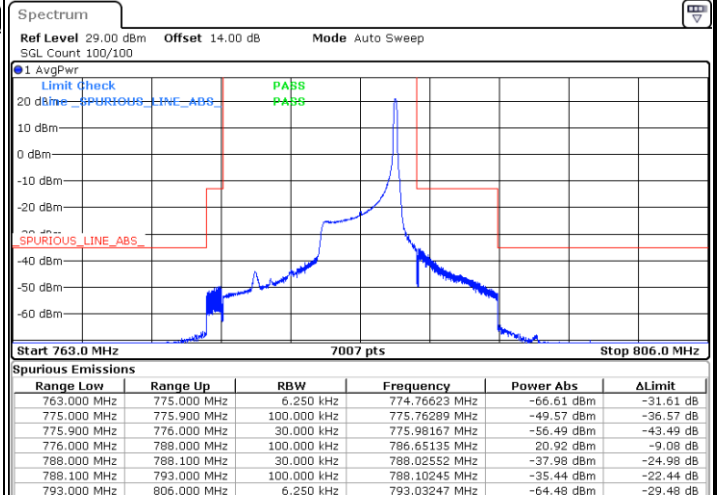
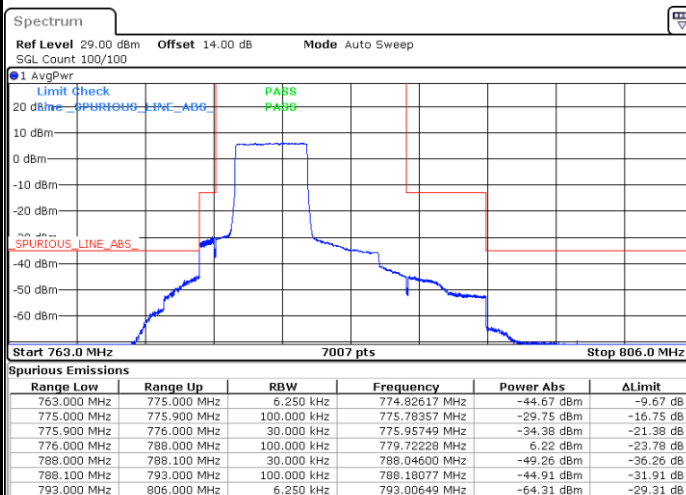
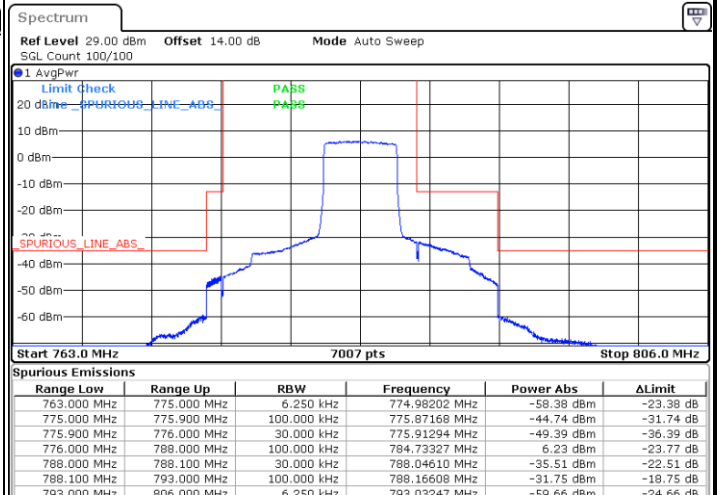


Date: 13.FEB.2021 18:51:53

Middle Channel / 10MHz / 16QAM



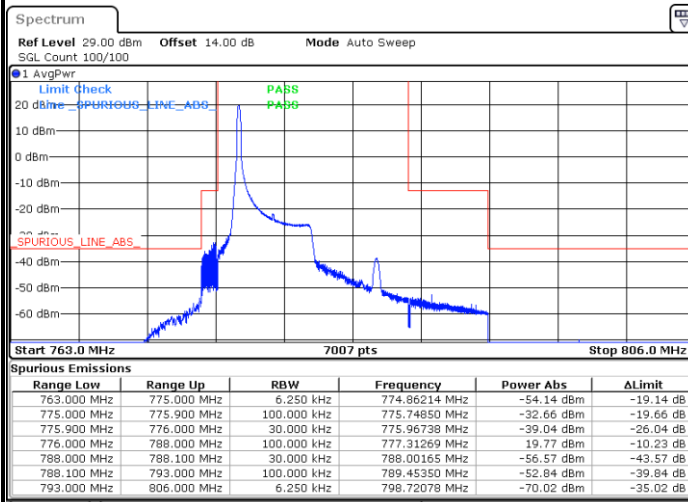
Date: 13.FEB.2021 18:52:04

**Conducted Band Edge****LTE Band 13 / 5MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

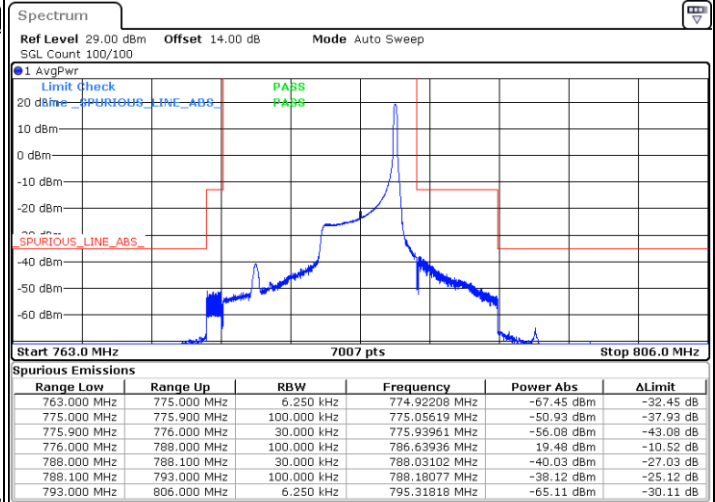


LTE Band 13 / 5MHz / 16QAM

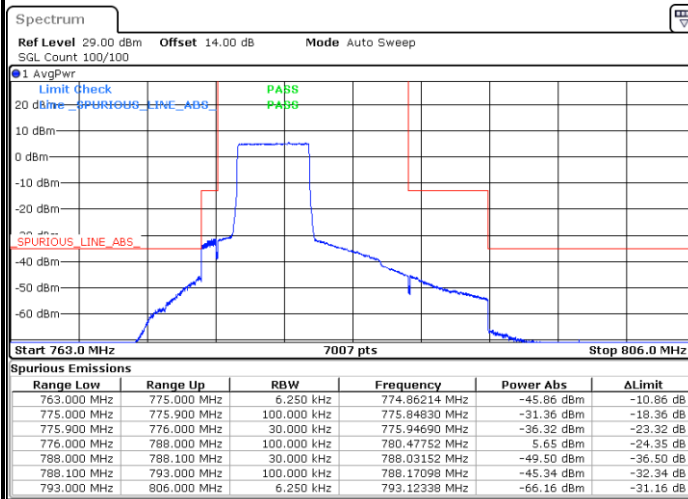
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

