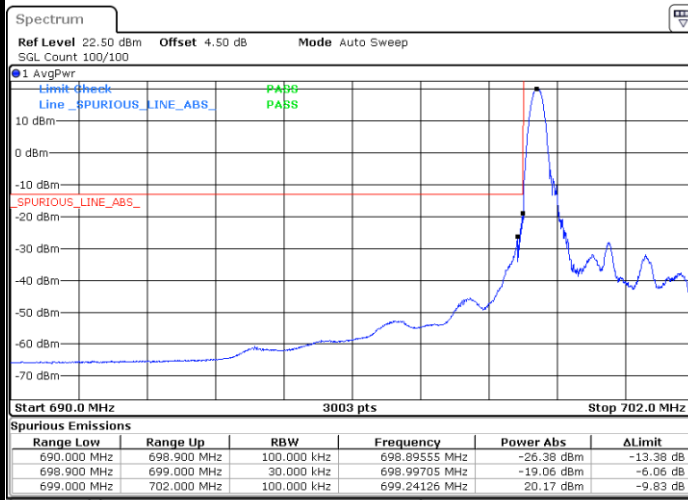




LTE Band 12 / 3MHz / QPSK

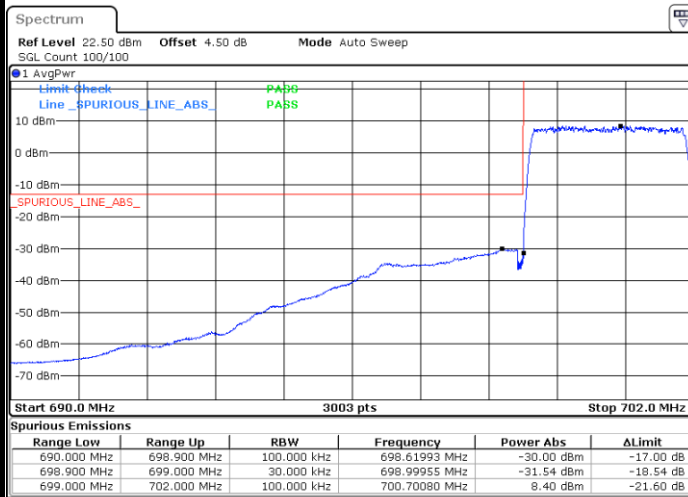
Lowest Band Edge / 1RB



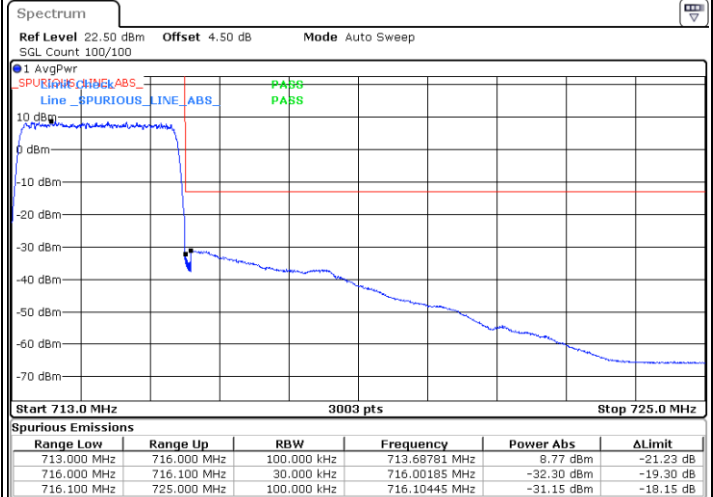
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



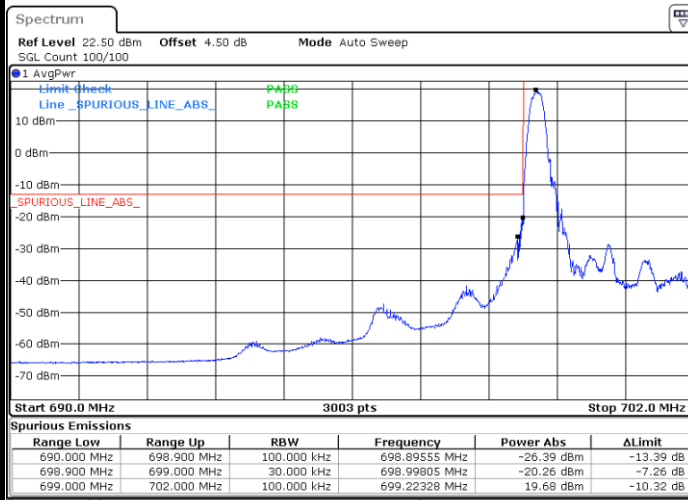
Highest Band Edge / Full RB



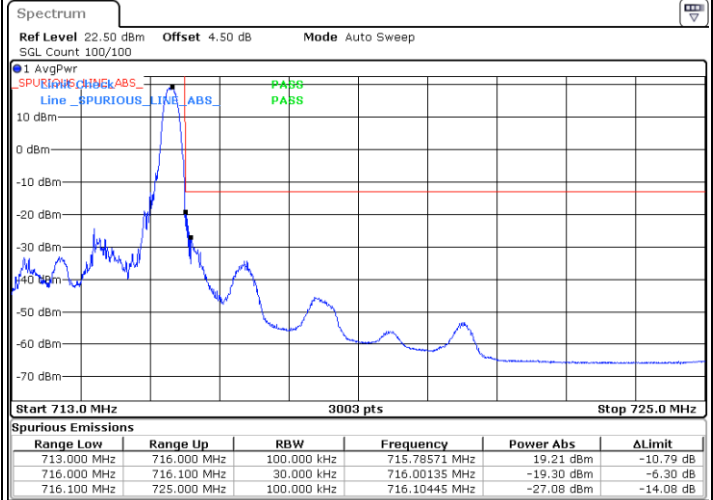


LTE Band 12 / 3MHz / 16QAM

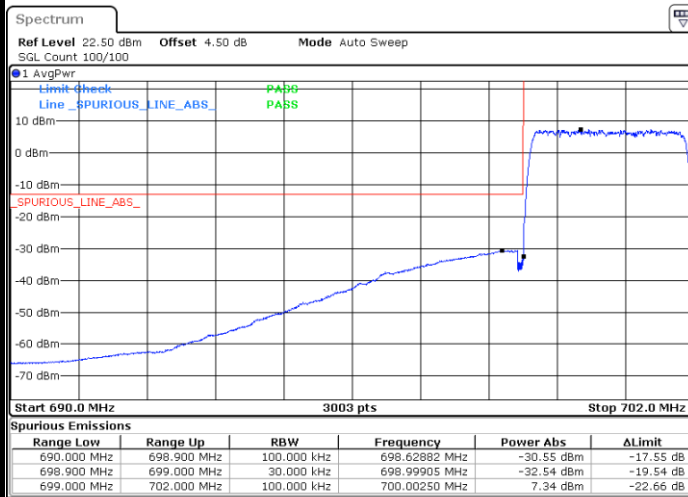
Lowest Band Edge / 1 RB



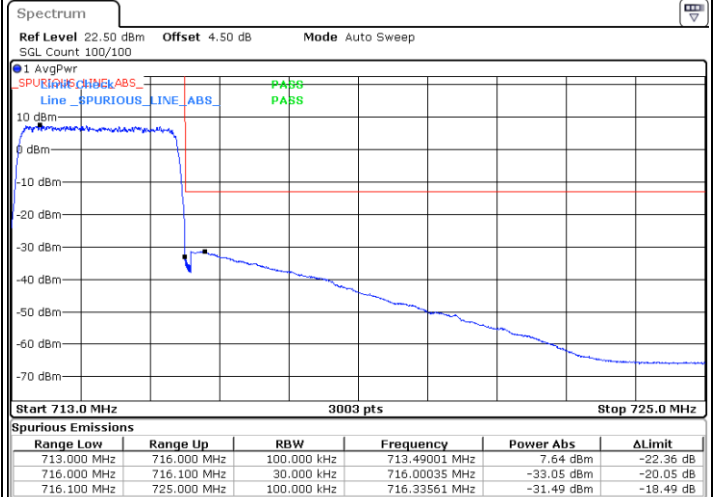
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



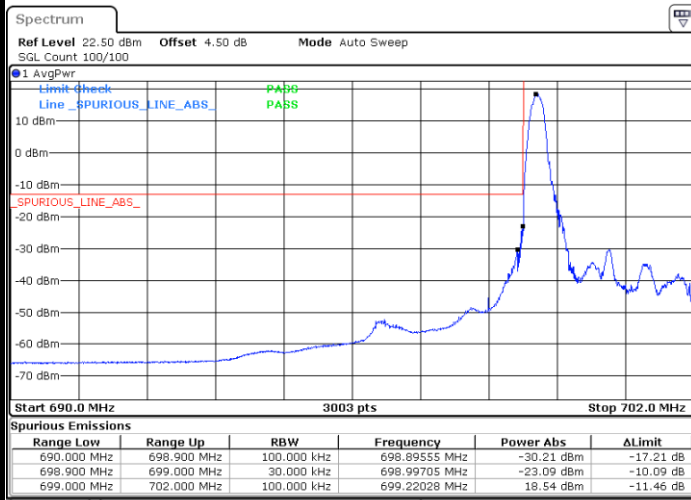
Highest Band Edge / Full RB





LTE Band 12 / 3MHz / 64QAM

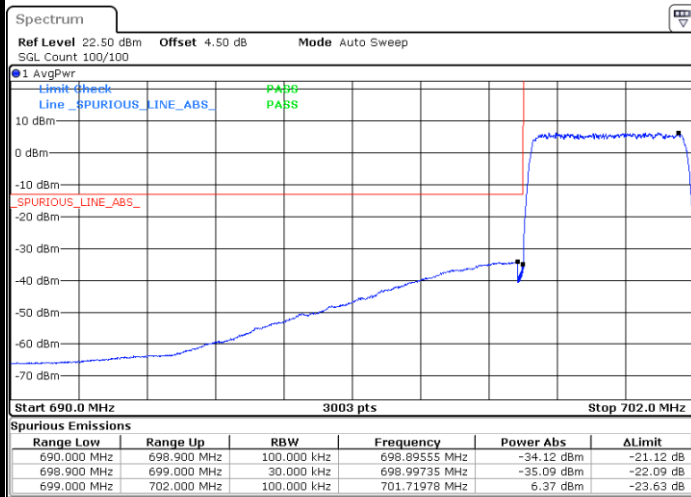
Lowest Band Edge / 1 RB



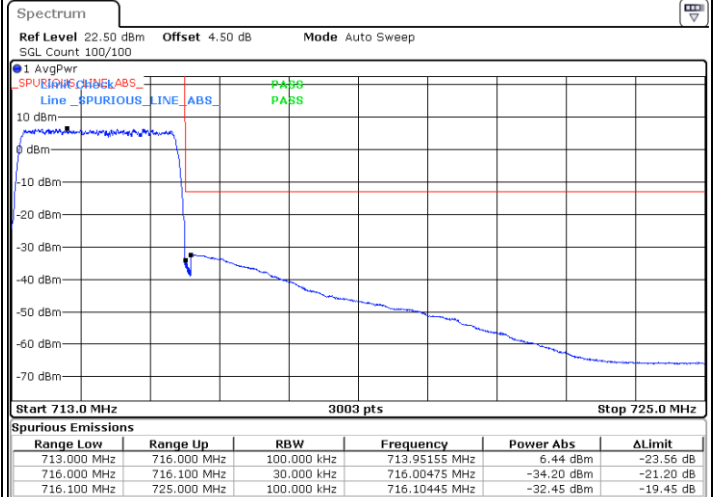
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB





LTE Band 12 / 5MHz / QPSK

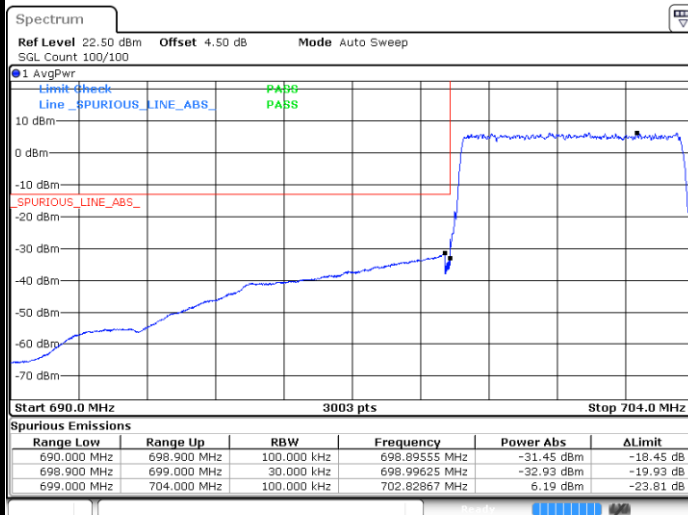
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



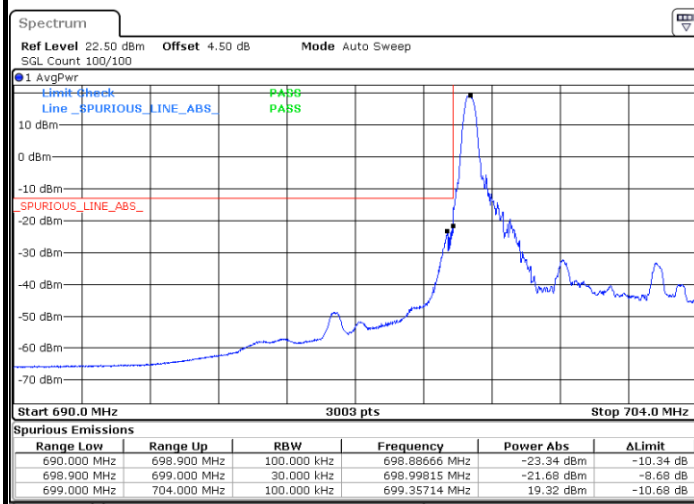
Highest Band Edge / Full RB



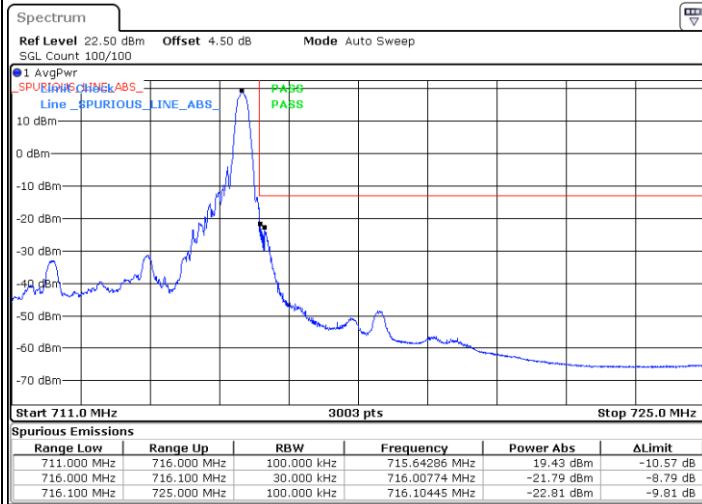


LTE Band 12 / 5MHz / 16QAM

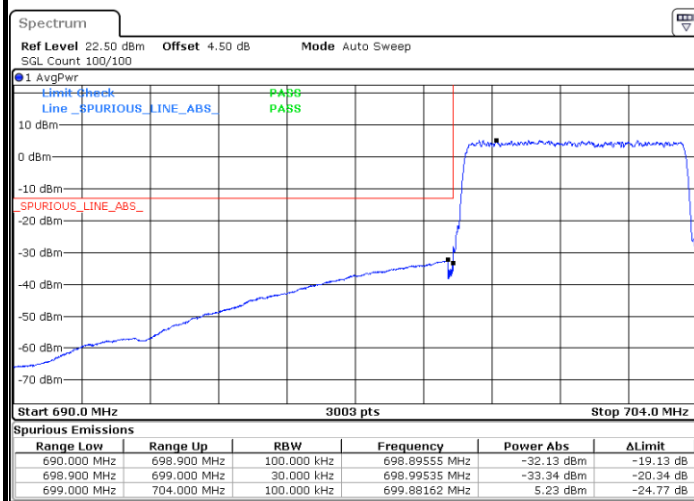
Lowest Band Edge / 1RB



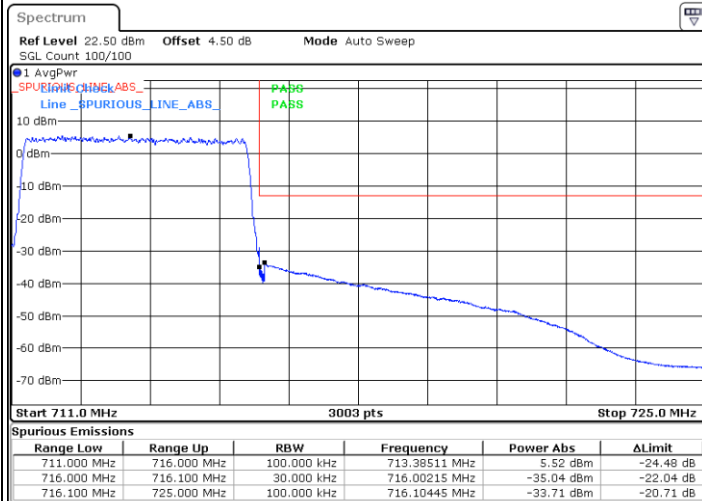
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



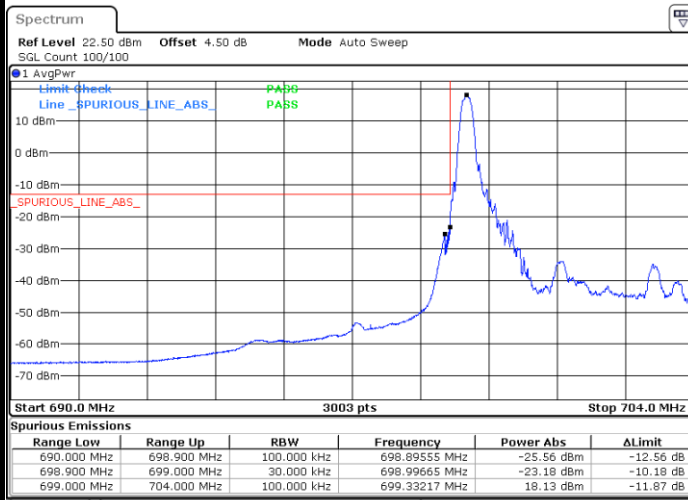
Highest Band Edge / Full RB





LTE Band 12 / 5MHz / 64QAM

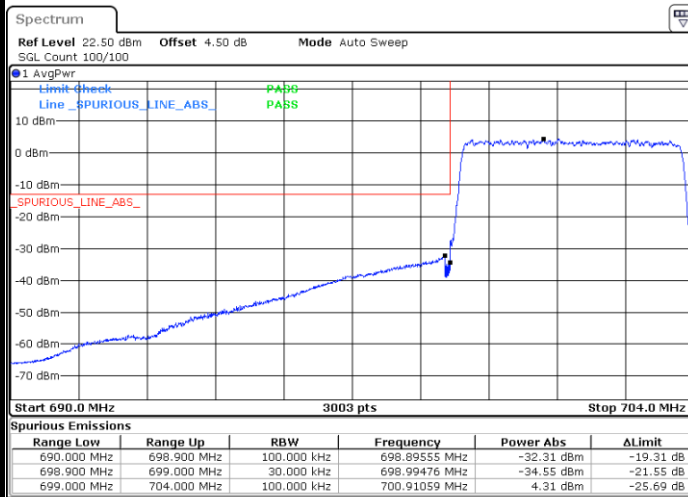
Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



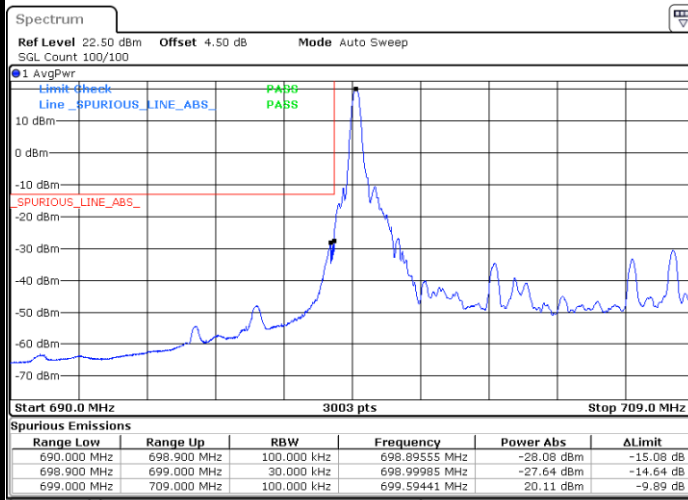
Highest Band Edge / Full RB



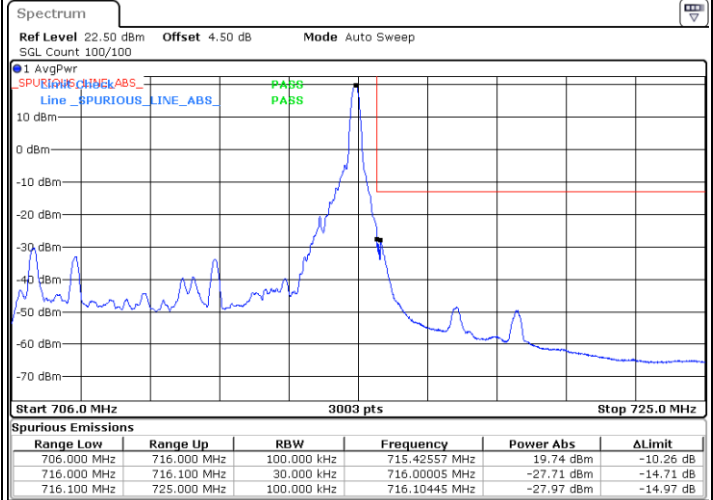


LTE Band 12 / 10MHz / QPSK

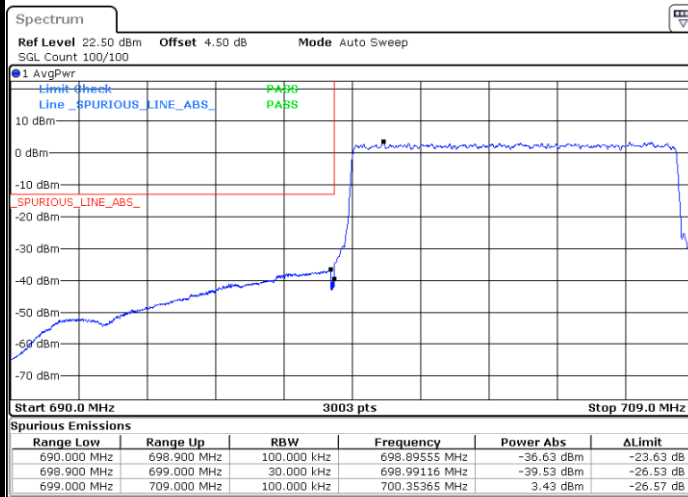
Lowest Band Edge / 1 RB



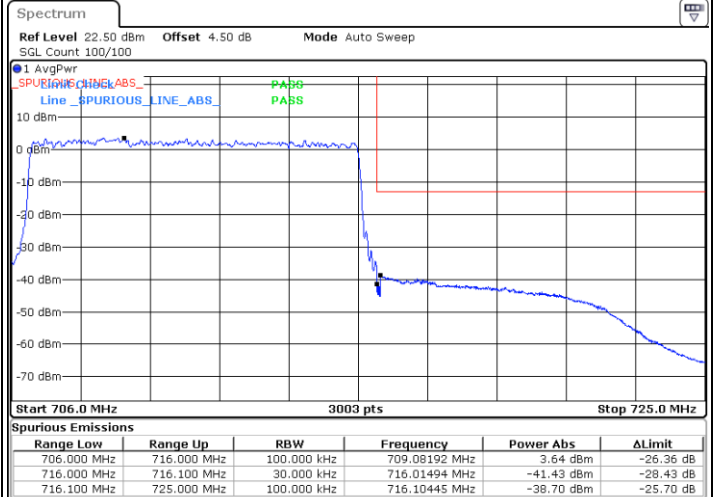
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



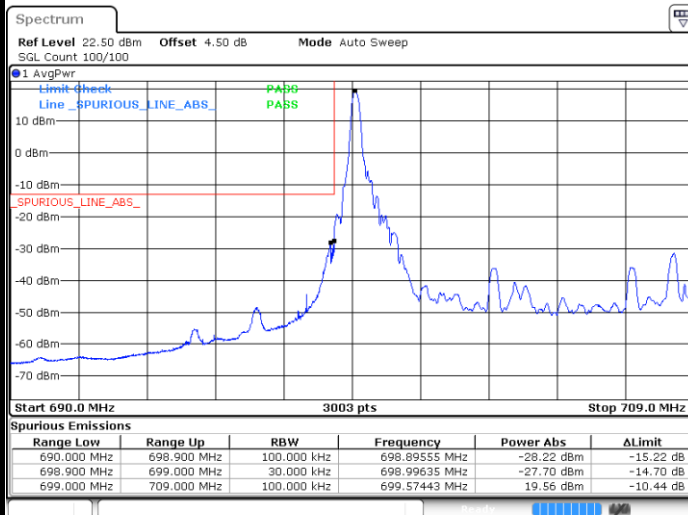
Highest Band Edge / Full RB



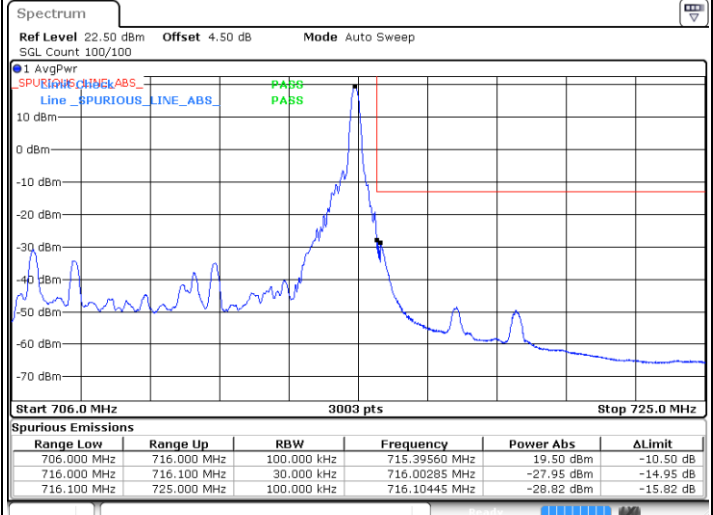


LTE Band 12 / 10MHz / 16QAM

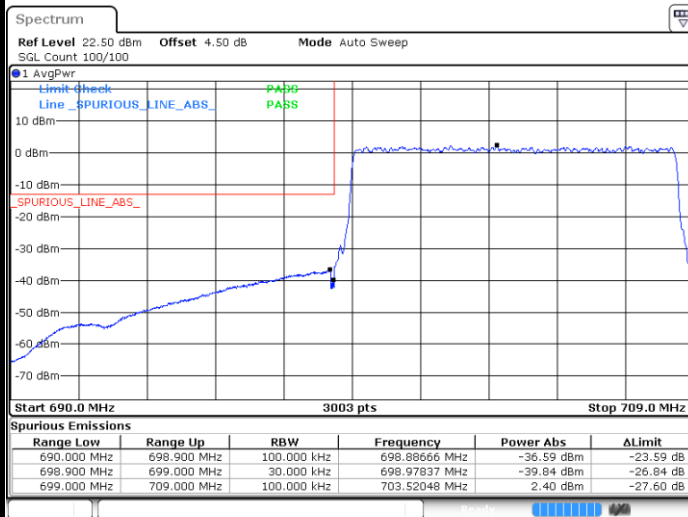
Lowest Band Edge / 1 RB



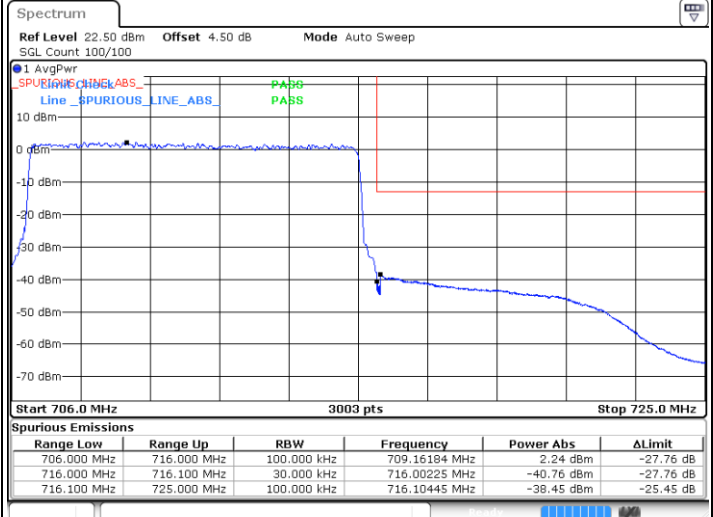
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



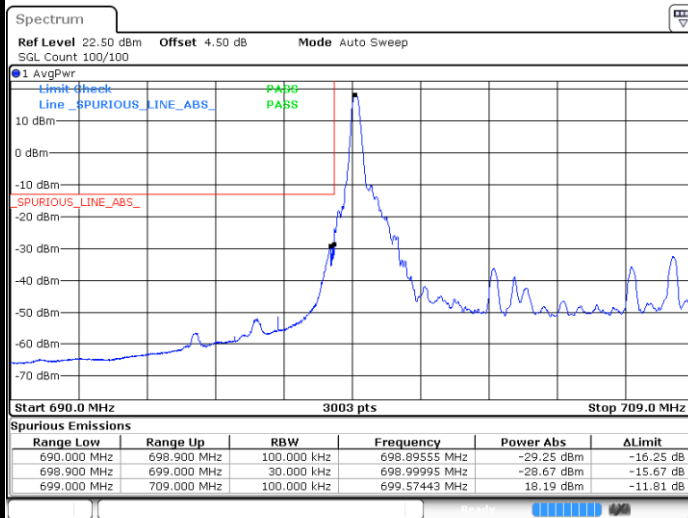
Highest Band Edge / Full RB



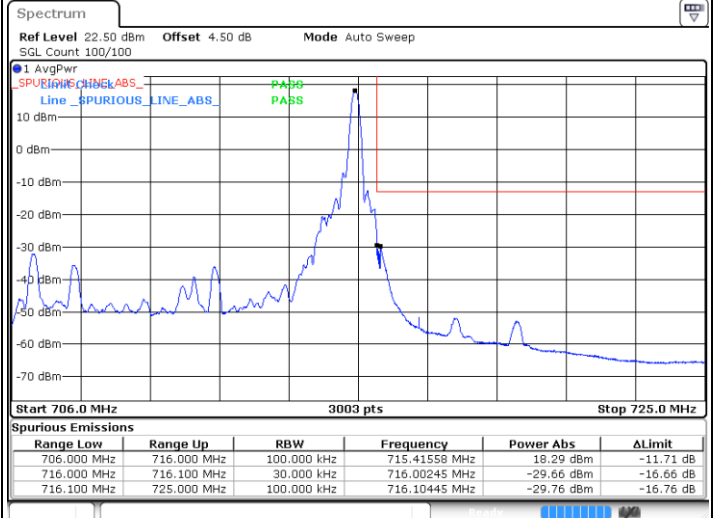


LTE Band 12 / 10MHz / 64QAM

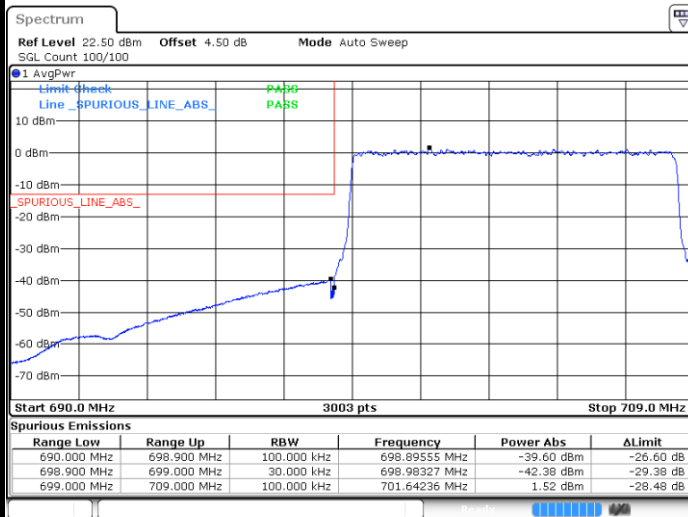
Lowest Band Edge / 1 RB



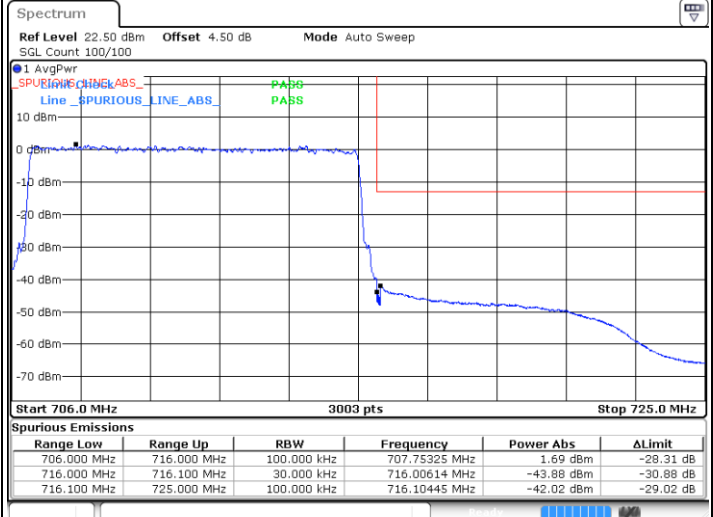
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

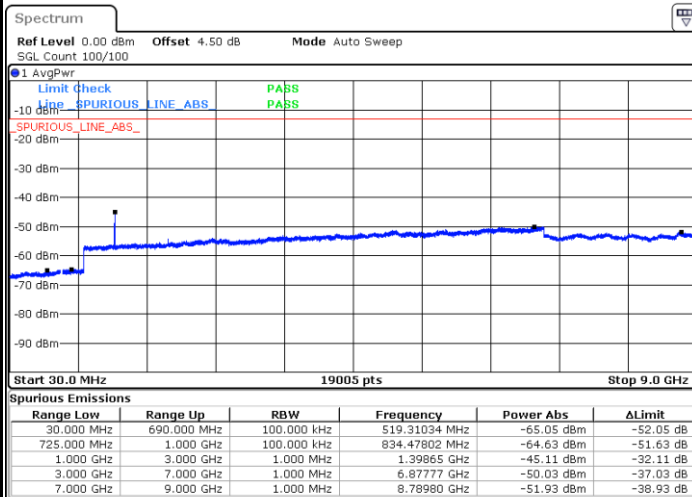




Conducted Spurious Emission

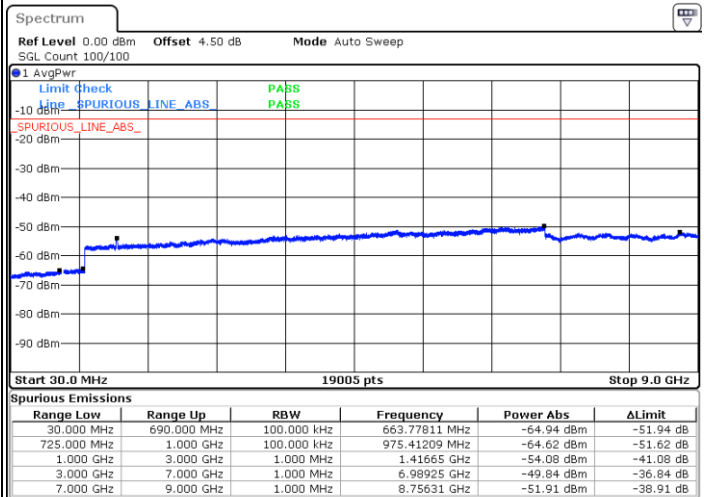
LTE Band 12 / 1.4MHz

Lowest Channel / QPSK



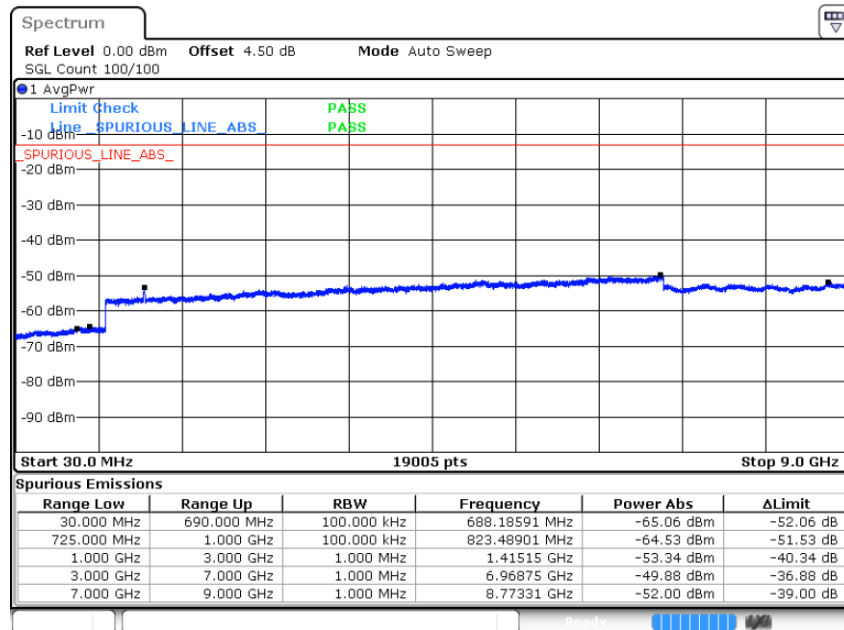
Date: 21 APR 2021 23:38:59

Middle Channel / QPSK



Date: 21 APR 2021 23:47:10

Highest Channel / QPSK

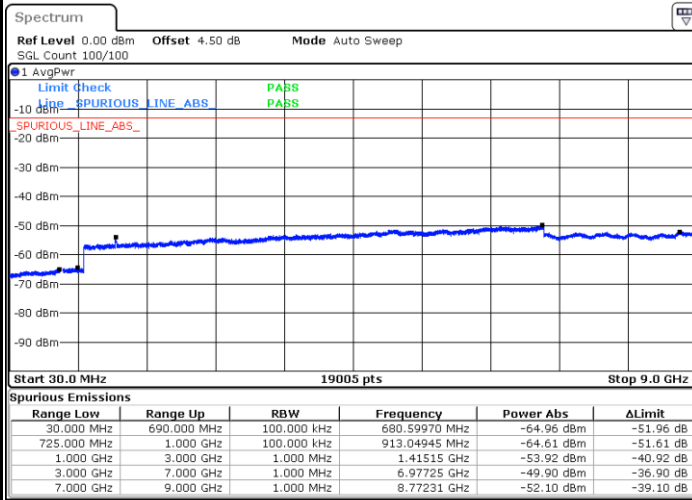


Date: 21 APR 2021 23:47:33



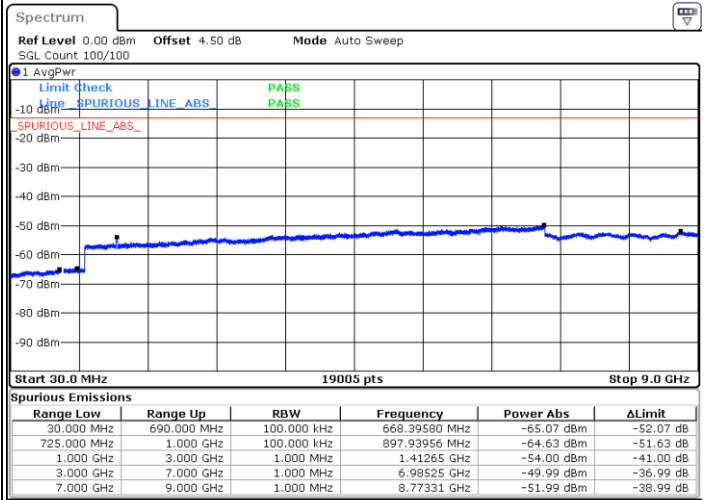
LTE Band 12 / 3MHz

Lowest Channel / QPSK



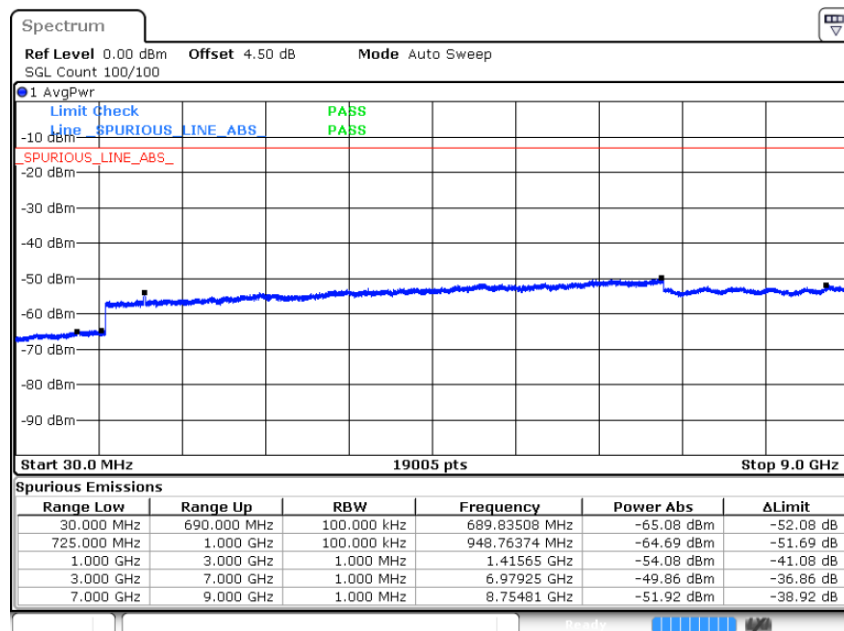
Date: 21 APR 2021 23:45:44

Middle Channel / QPSK



Date: 21 APR 2021 23:46:09

Highest Channel / QPSK

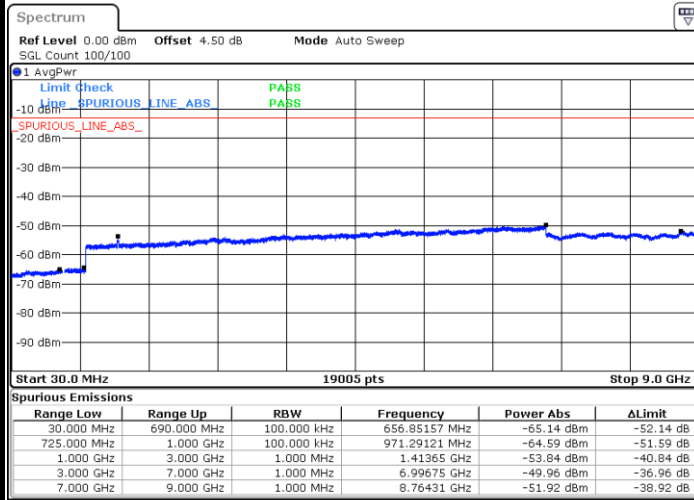


Date: 21 APR 2021 23:46:36



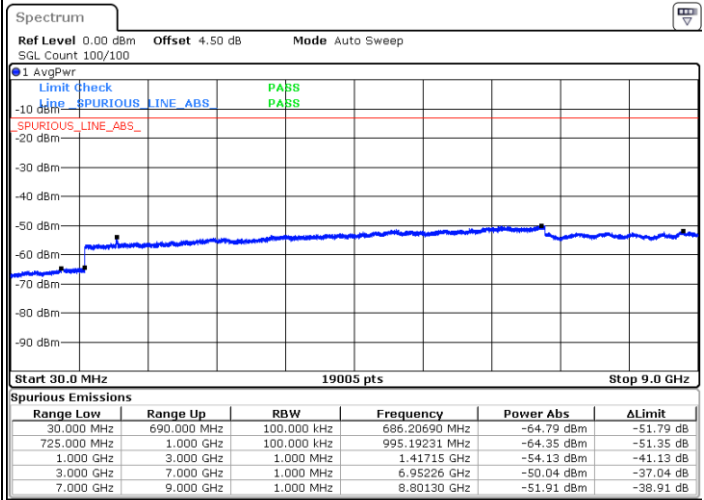
LTE Band 12 / 5MHz

Lowest Channel / QPSK



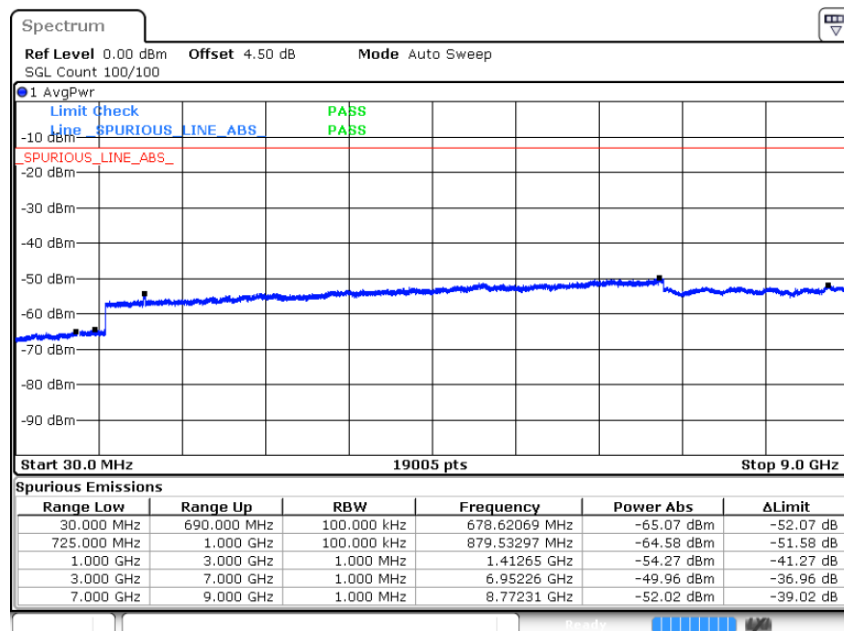
Date: 21 APR 2021 23:44:16

Middle Channel / QPSK



Date: 21 APR 2021 23:44:47

Highest Channel / QPSK

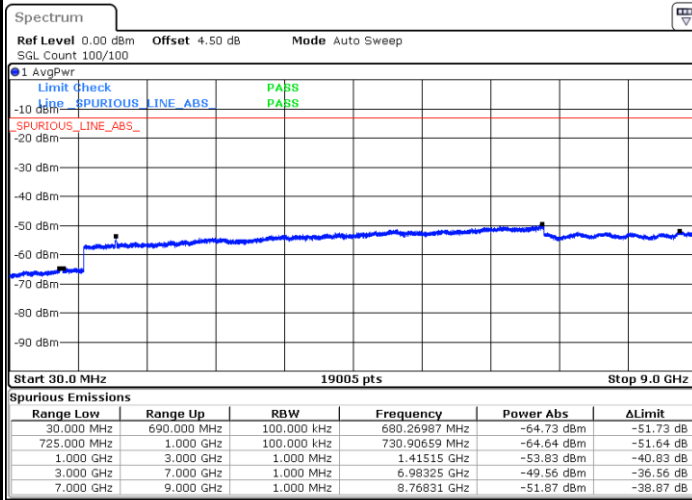


Date: 21 APR 2021 23:45:09



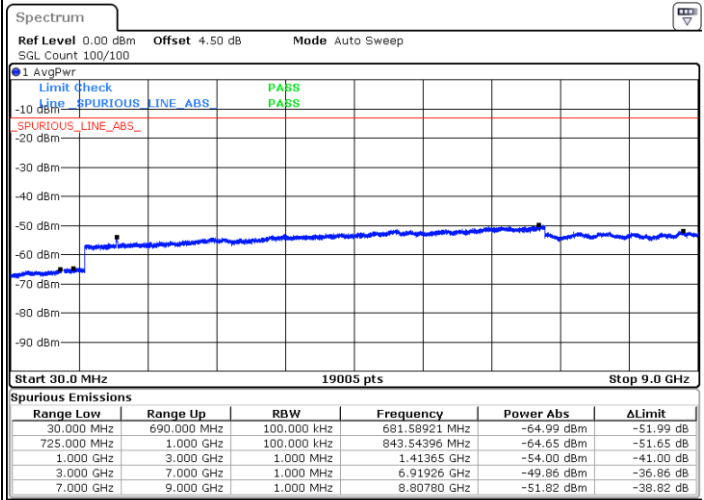
LTE Band 12 / 10MHz

Lowest Channel / QPSK



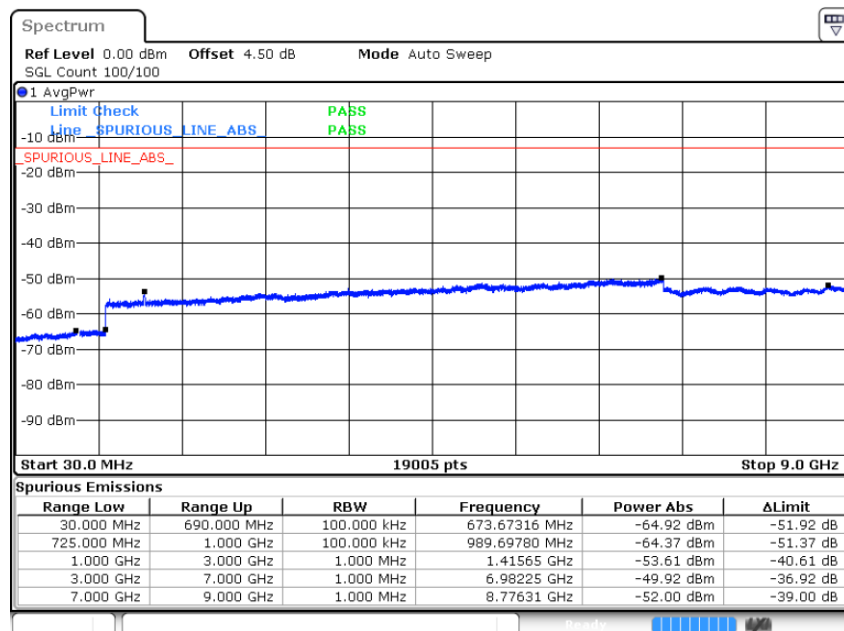
Date: 21 APR 2021 23:42:52

Middle Channel / QPSK



Date: 21 APR 2021 23:42:27

Highest Channel / QPSK



Date: 21 APR 2021 23:43:19

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	0.0002	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0018	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0032	
0	Normal Voltage	0.0000	
-10	Normal Voltage	0.0018	
-20	Normal Voltage	0.0046	
-30	Normal Voltage	0.0035	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0010	
20	Battery End Point	0.0012	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

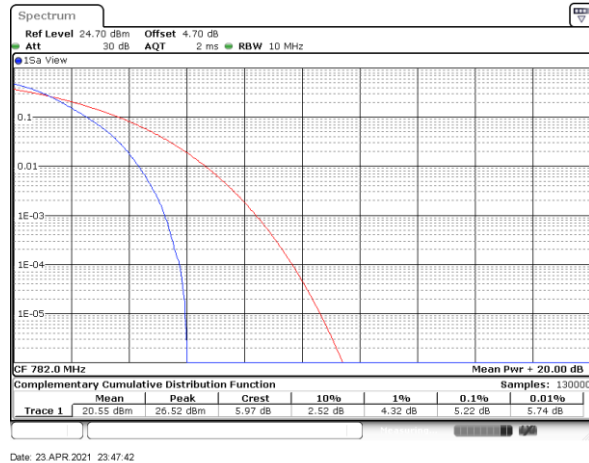
Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.22	6.17	6.43	PASS

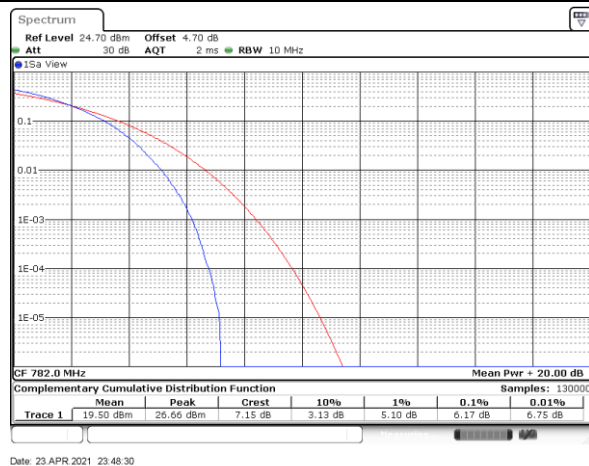


LTE Band 13 / 10MHz

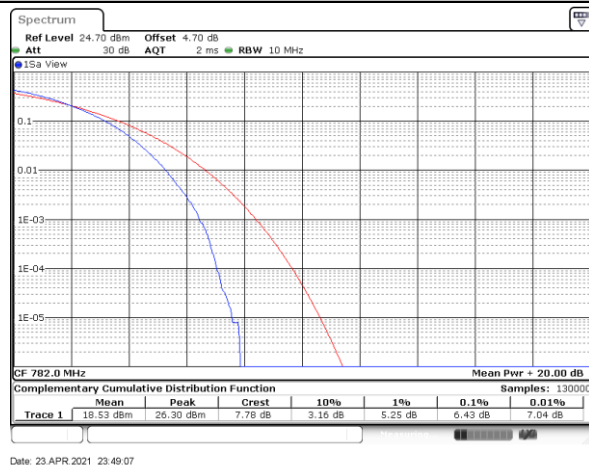
Middle Channel / Full RB/ QPSK



Middle Channel / Full RB/ 16QAM

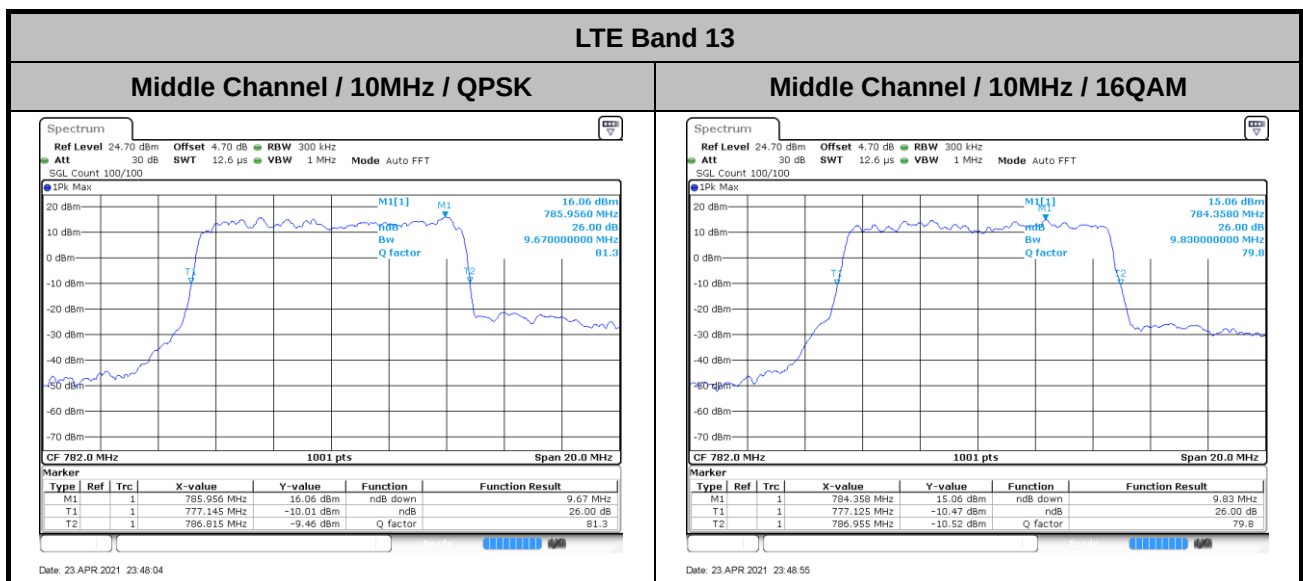


Middle Channel / Full RB/ 64QAM



**26dB Bandwidth**

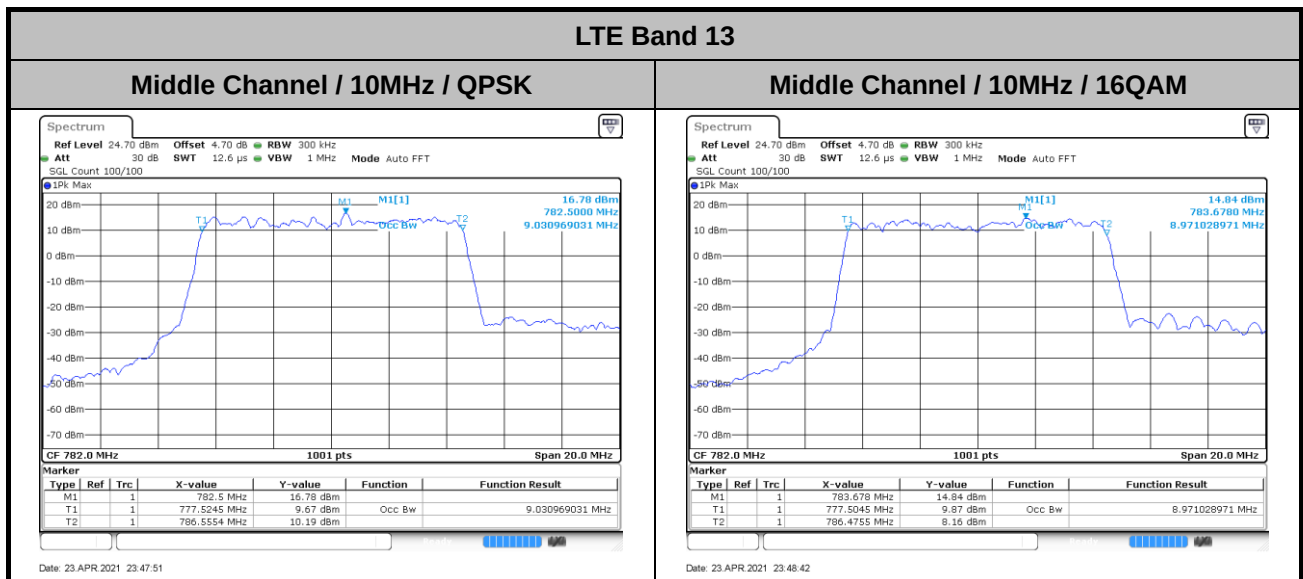
Mode	LTE Band 13 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.67	9.83

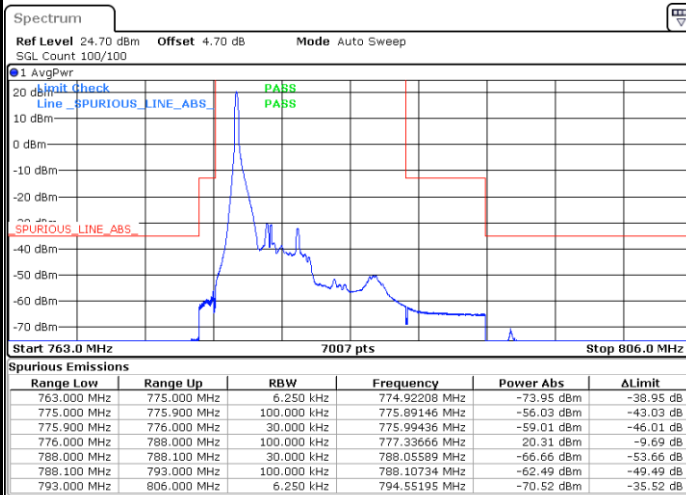




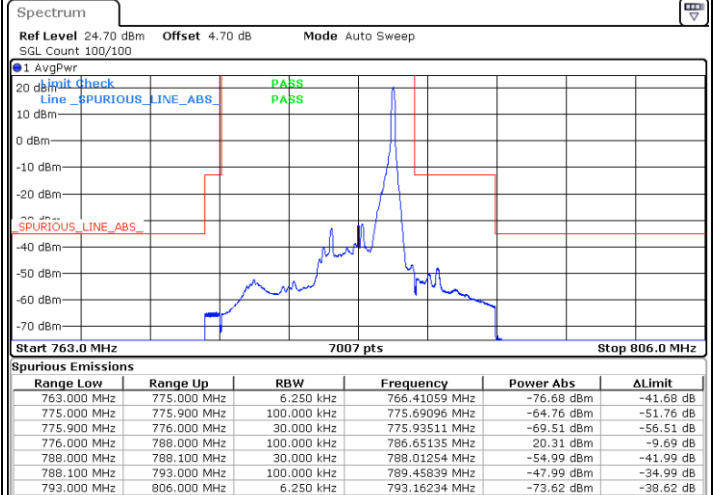
Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.03	8.97

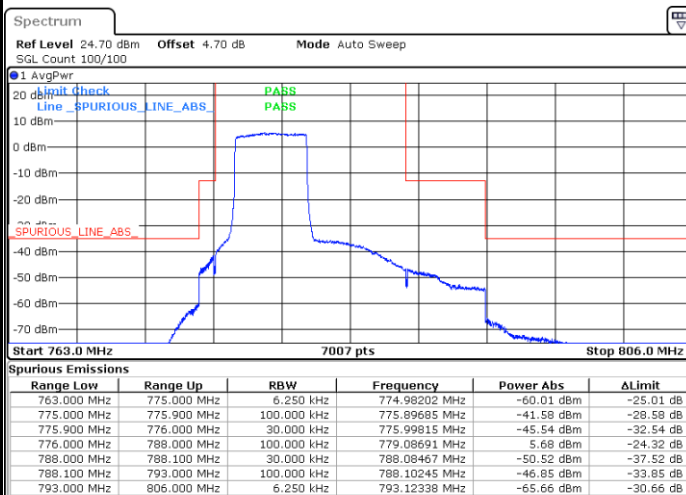


**Conducted Band Edge****LTE Band 13 / 5MHz / QPSK****Lowest Band Edge / 1 RB**

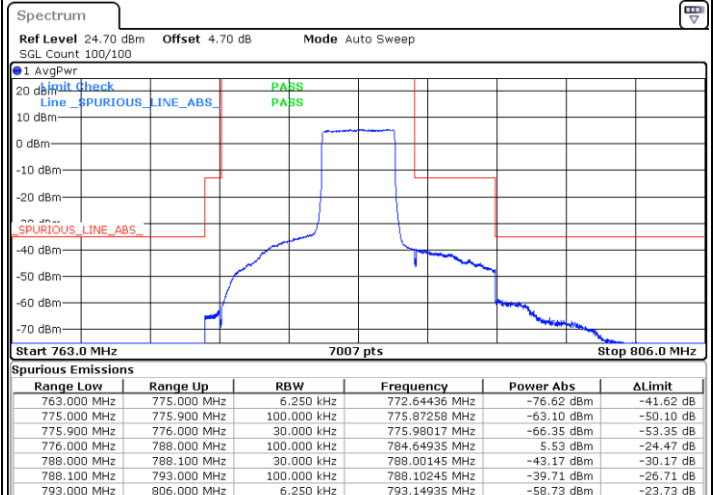
Date: 23 APR 2021 23:10:12

Highest Band Edge / 1 RB

Date: 23 APR 2021 23:13:27

Lowest Band Edge / Full RB

Date: 23 APR 2021 23:08:35

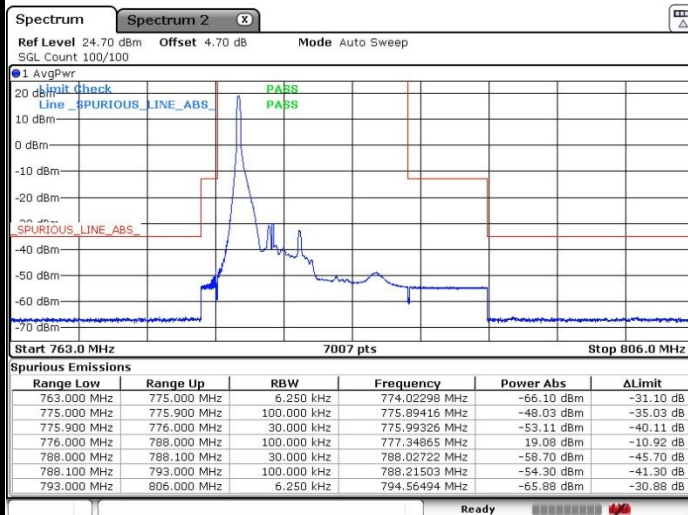
Highest Band Edge / Full RB

Date: 23 APR 2021 23:11:50

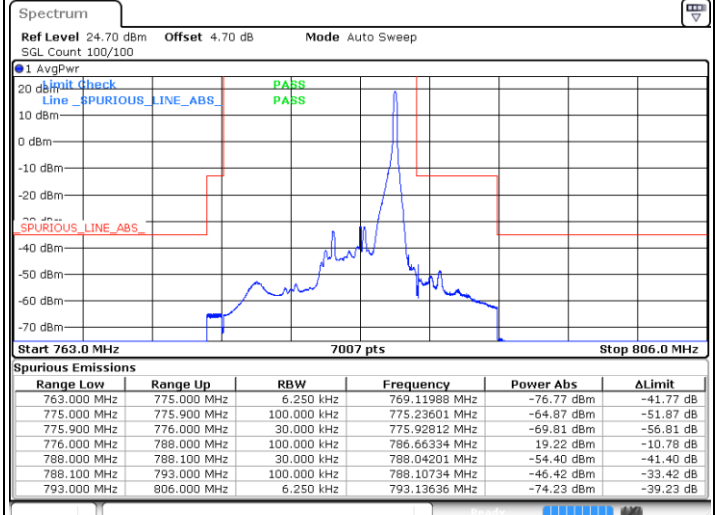


LTE Band 13 / 5MHz / 16QAM

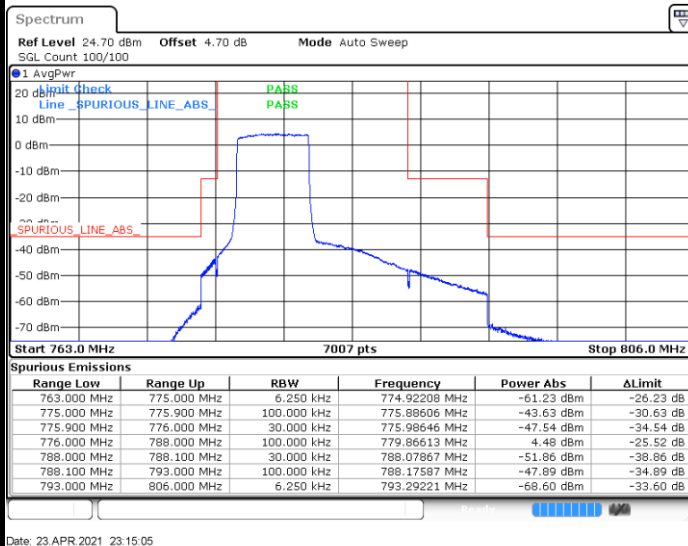
Lowest Band Edge / 1RB



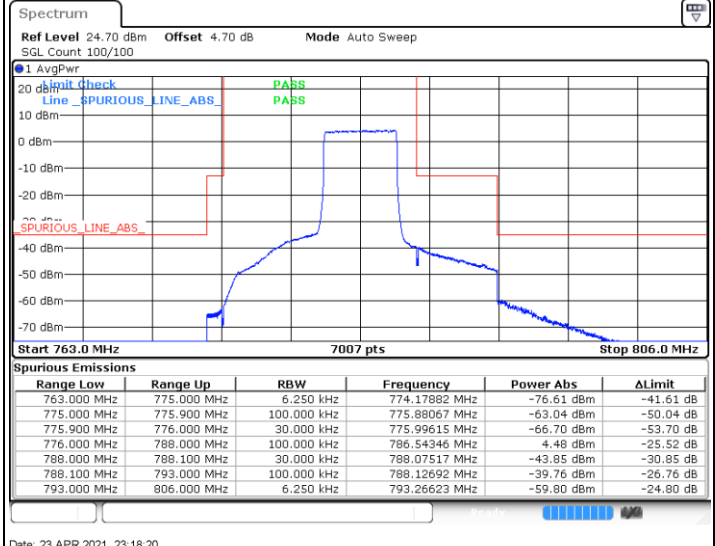
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



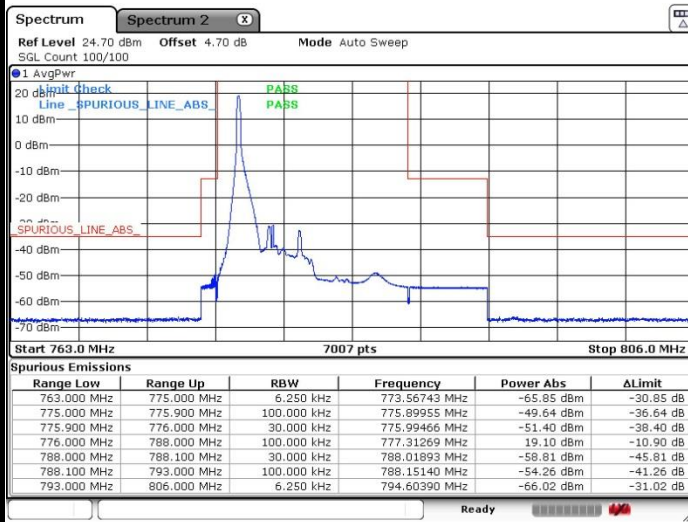
Highest Band Edge / Full RB



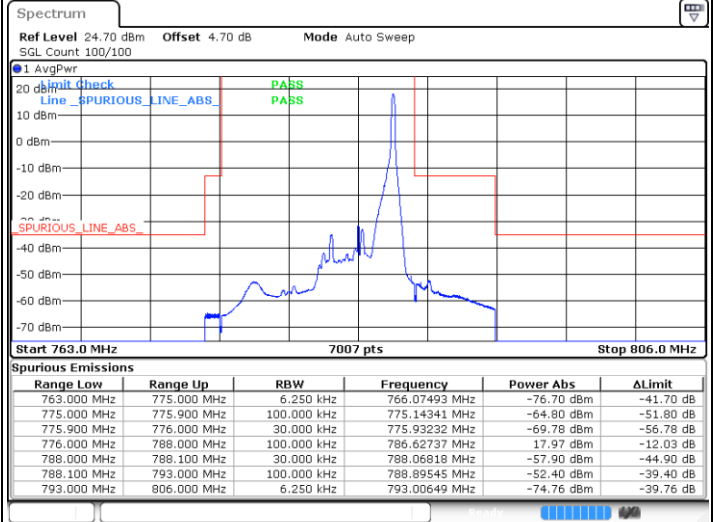


LTE Band 13 / 5MHz / 64QAM

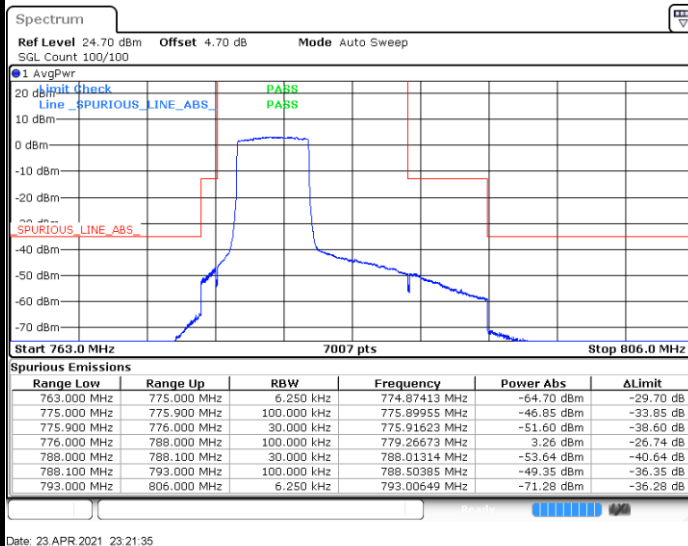
Lowest Band Edge / 1RB



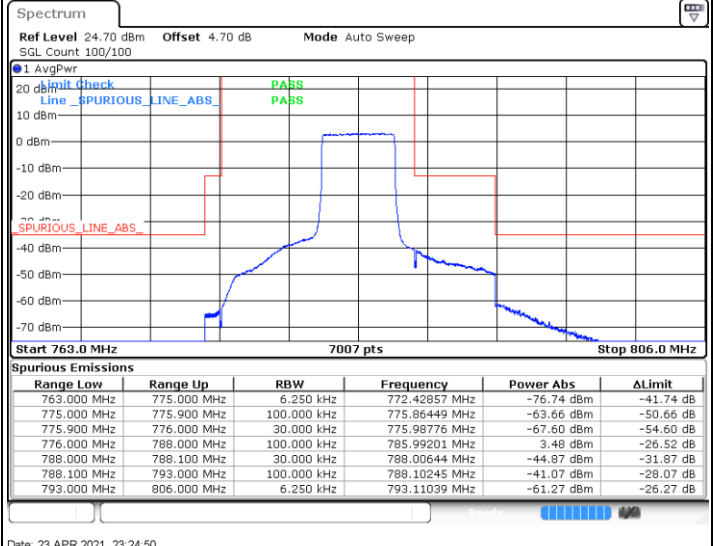
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



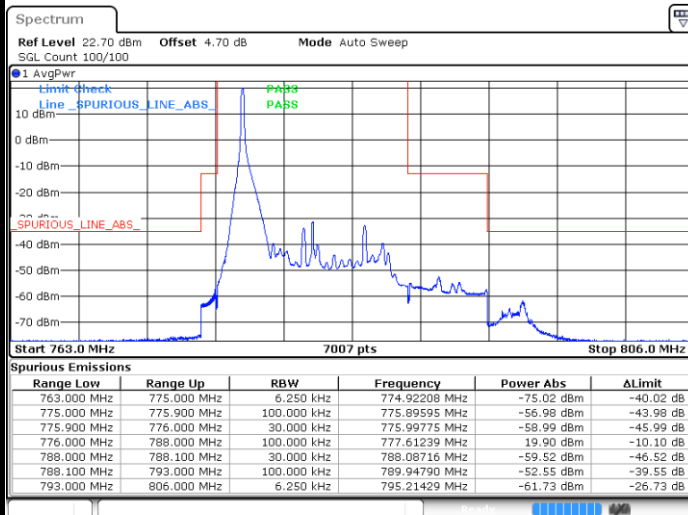
Highest Band Edge / Full RB



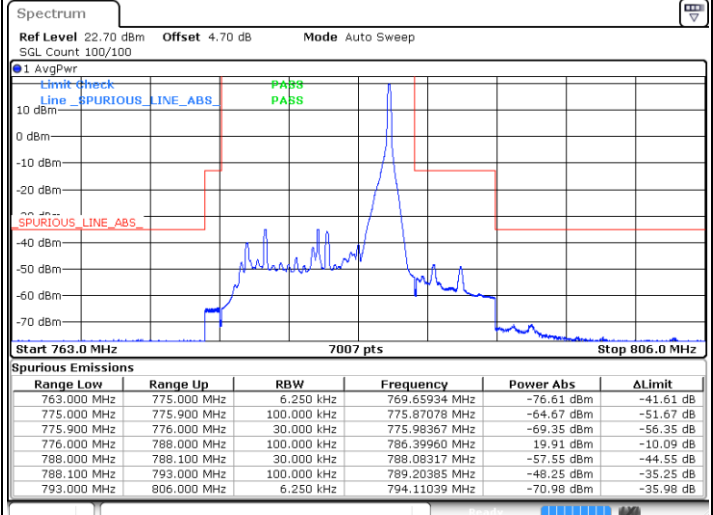


LTE Band 13 / 10MHz / QPSK

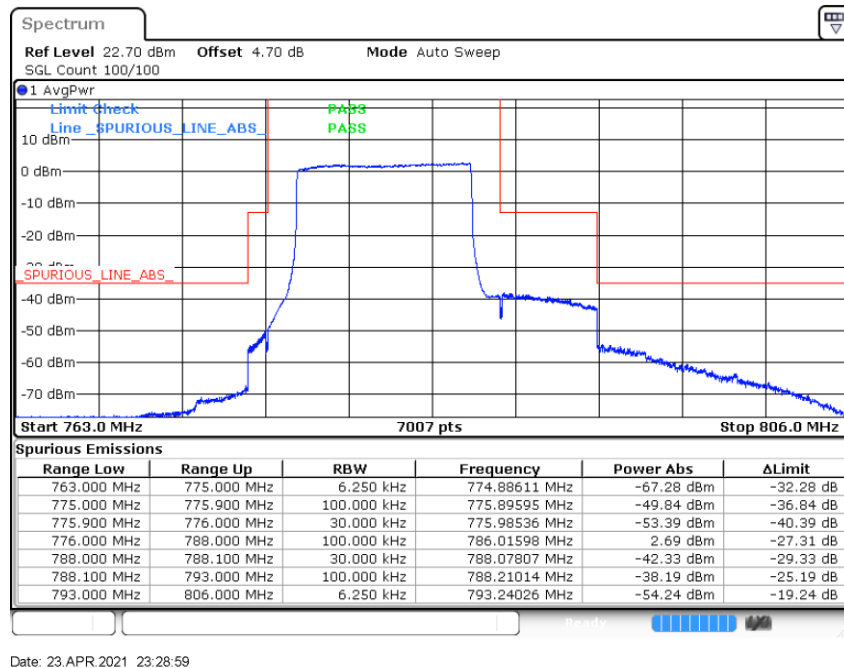
middle Band Edge / 1 RB



middle Band Edge / 1 RB



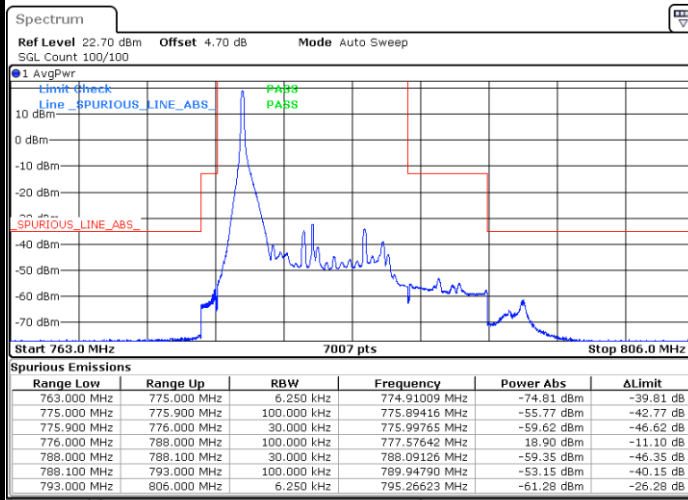
Middle Band Edge / Full RB





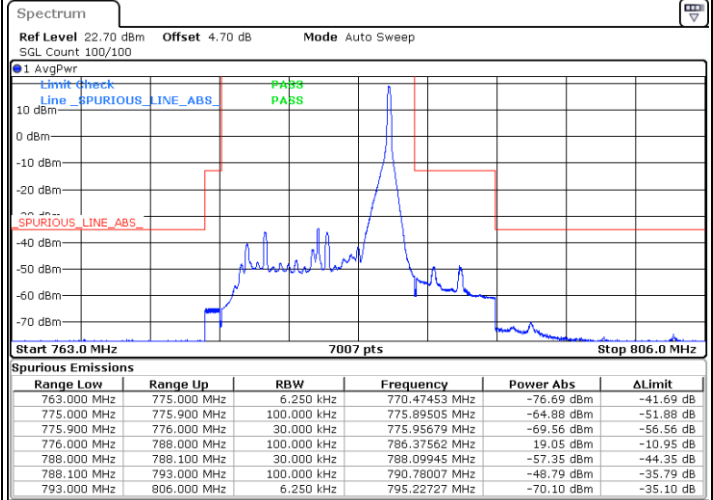
LTE Band 13 / 10MHz / 16QAM

middle Band Edge / 1 RB



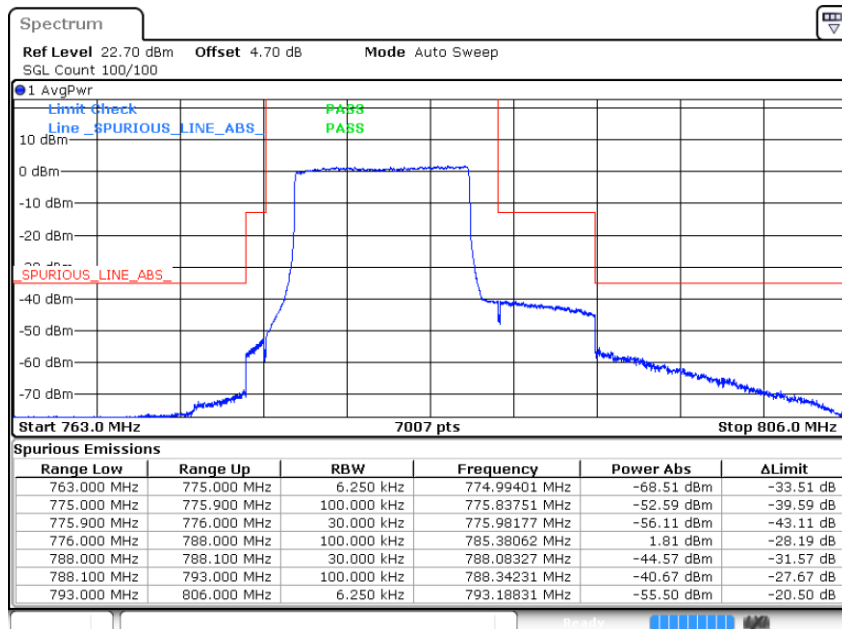
Date: 23 APR 2021 23:35:29

middle Band Edge / 1 RB



Date: 23 APR 2021 23:37:07

middle Band Edge / Full RB

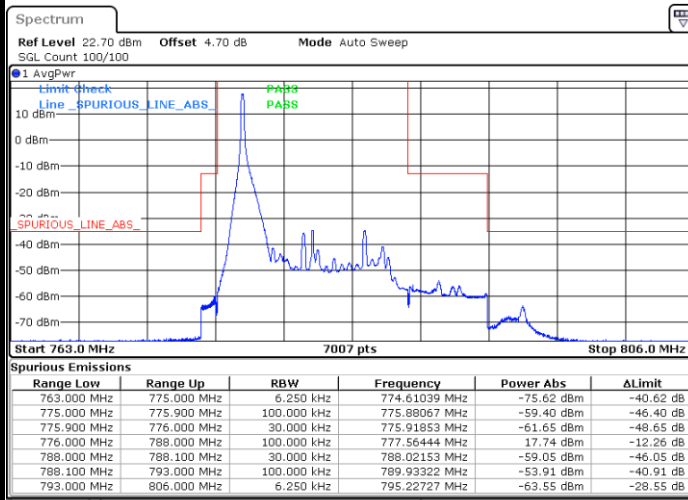


Date: 23 APR 2021 23:33:52



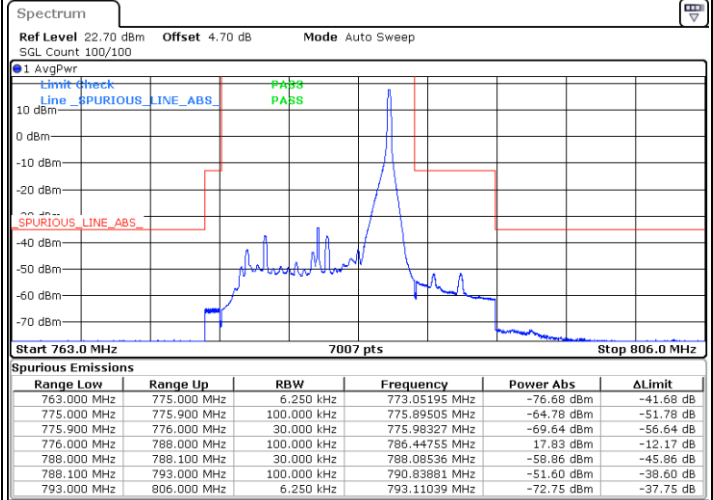
LTE Band 13 / 10MHz / 64QAM

middle Band Edge / 1 RB



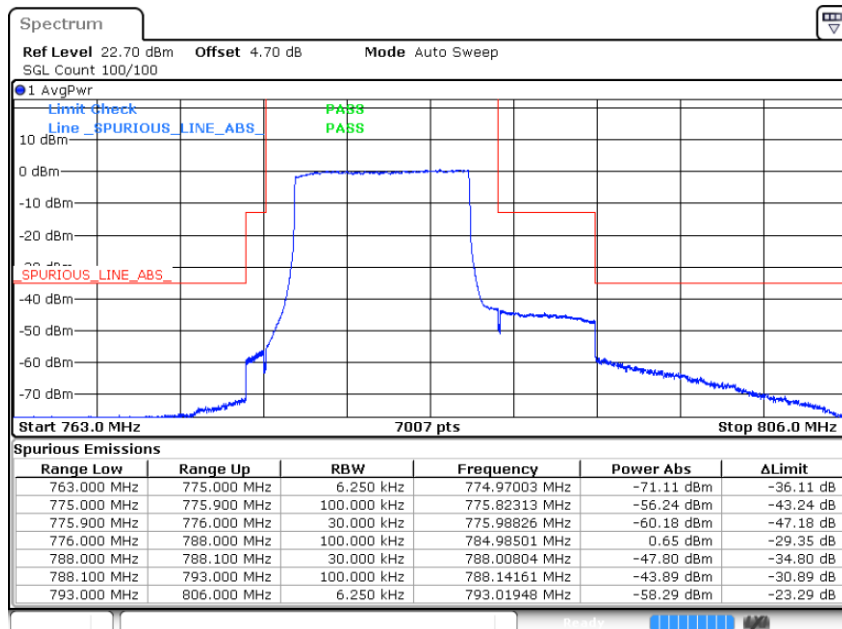
Date: 23 APR 2021 23:40:21

middle Band Edge / 1 RB



Date: 23 APR 2021 23:41:59

middle Band Edge / Full RB



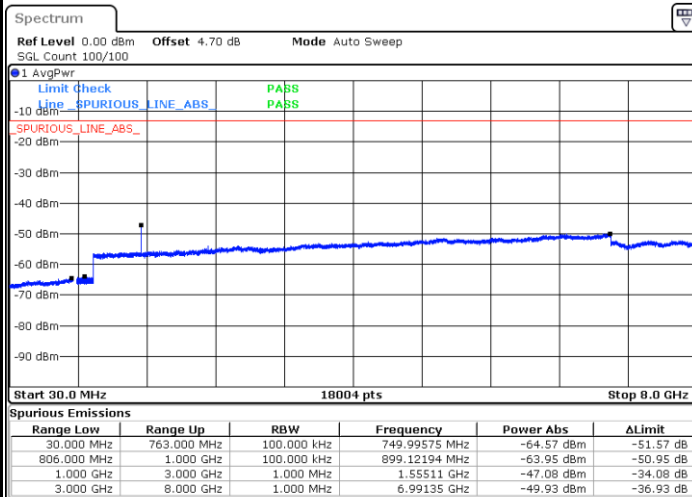
Date: 23 APR 2021 23:38:44



Conducted Spurious Emission

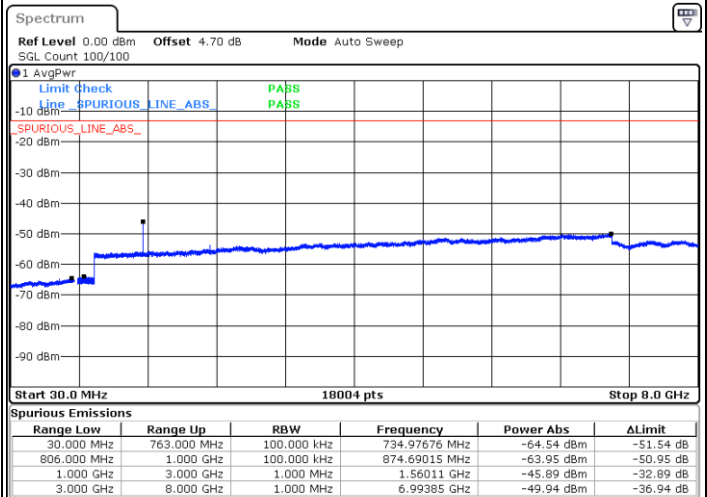
LTE Band 13 / 5MHz

Lowest Channel / QPSK



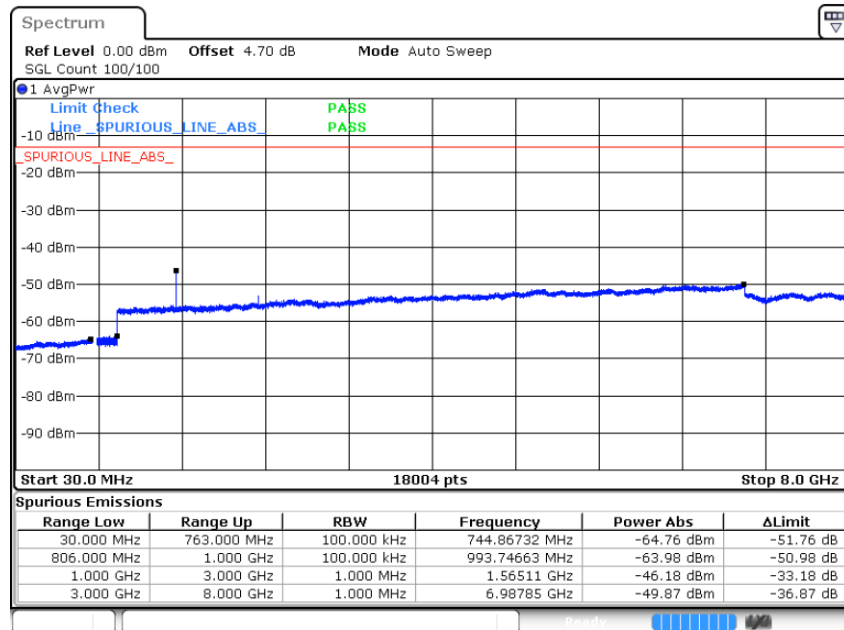
Date: 23 APR 2021 23:42:52

Middle Channel / QPSK



Date: 23 APR 2021 23:43:46

Highest Channel / QPSK

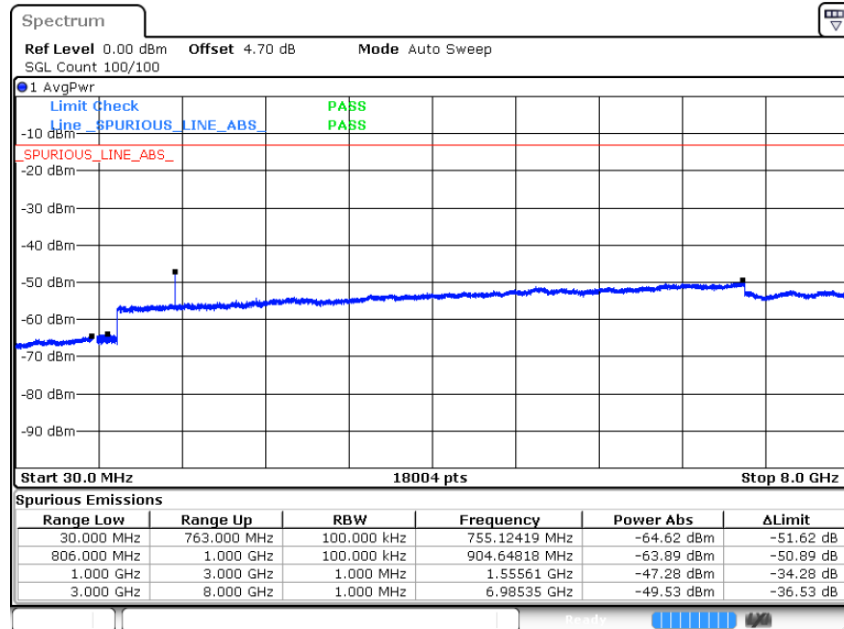


Date: 23 APR 2021 23:44:41



LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 23.APR.2021 23:46:10

**Frequency Stability**

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0015	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0036	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0011	
0	Normal Voltage	0.0054	
-10	Normal Voltage	0.0011	
-20	Normal Voltage	0.0023	
-30	Normal Voltage	0.0051	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0008	
20	Battery End Point	0.0033	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 26

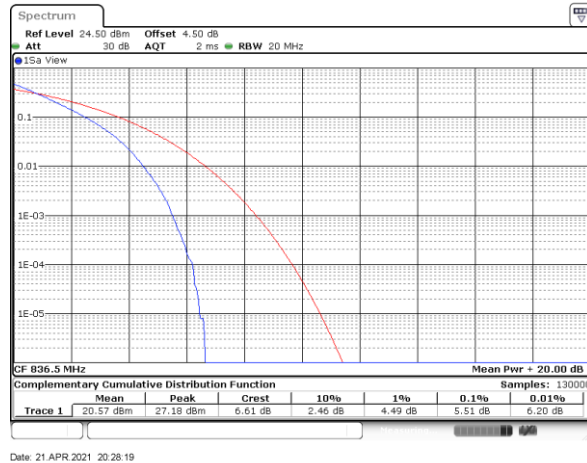
Peak-to-Average Ratio

Mode	LTE Band 26 / 15MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.51	6.23	6.55	PASS

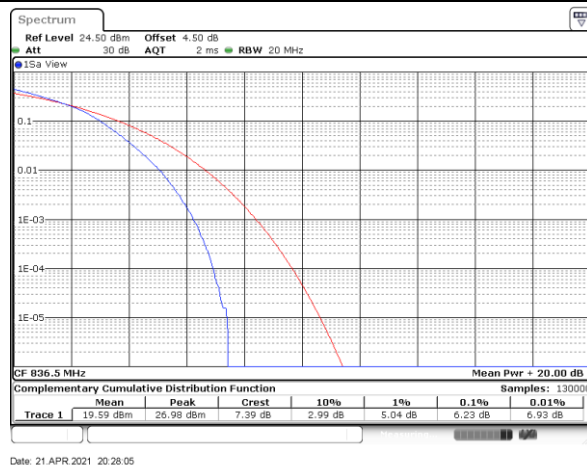


LTE Band 26 / 15MHz

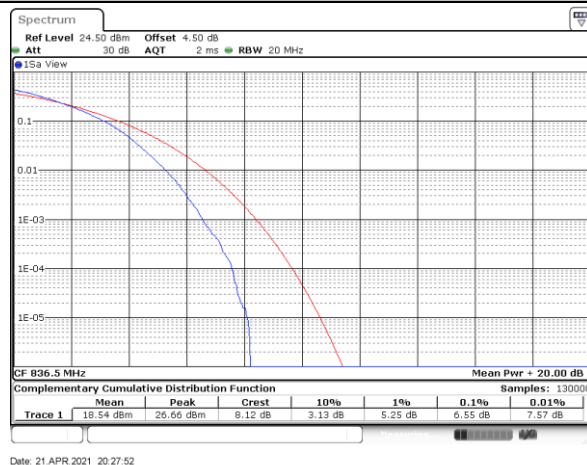
Middle Channel / Full RB/ QPSK



Middle Channel / Full RB/ 16QAM

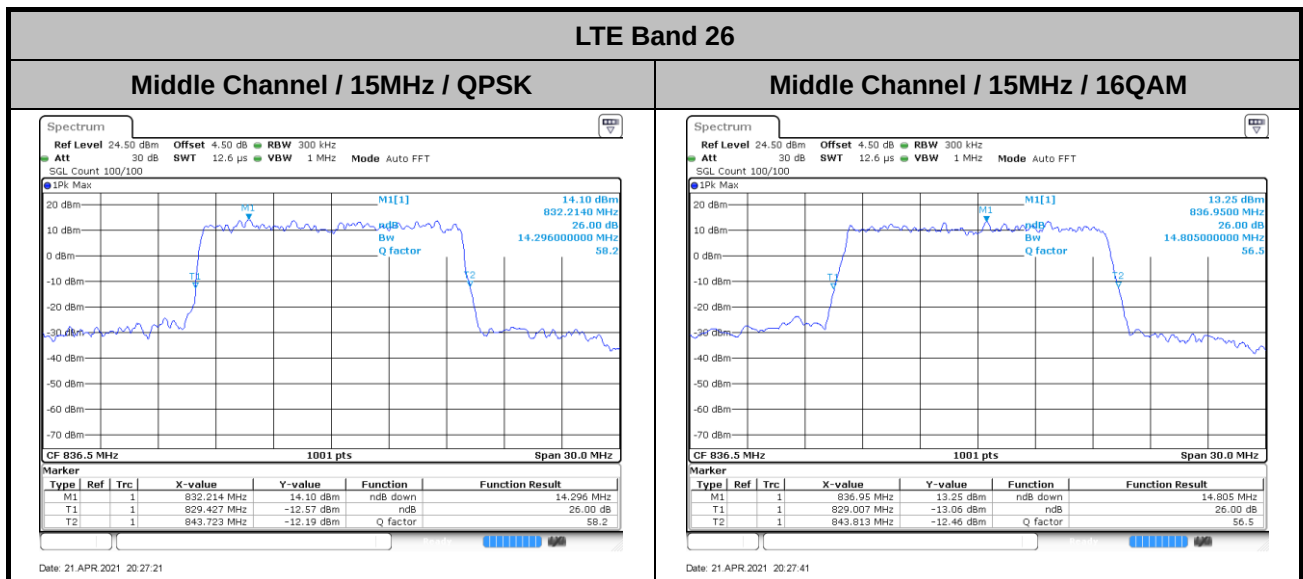


Middle Channel / Full RB/ 64QAM



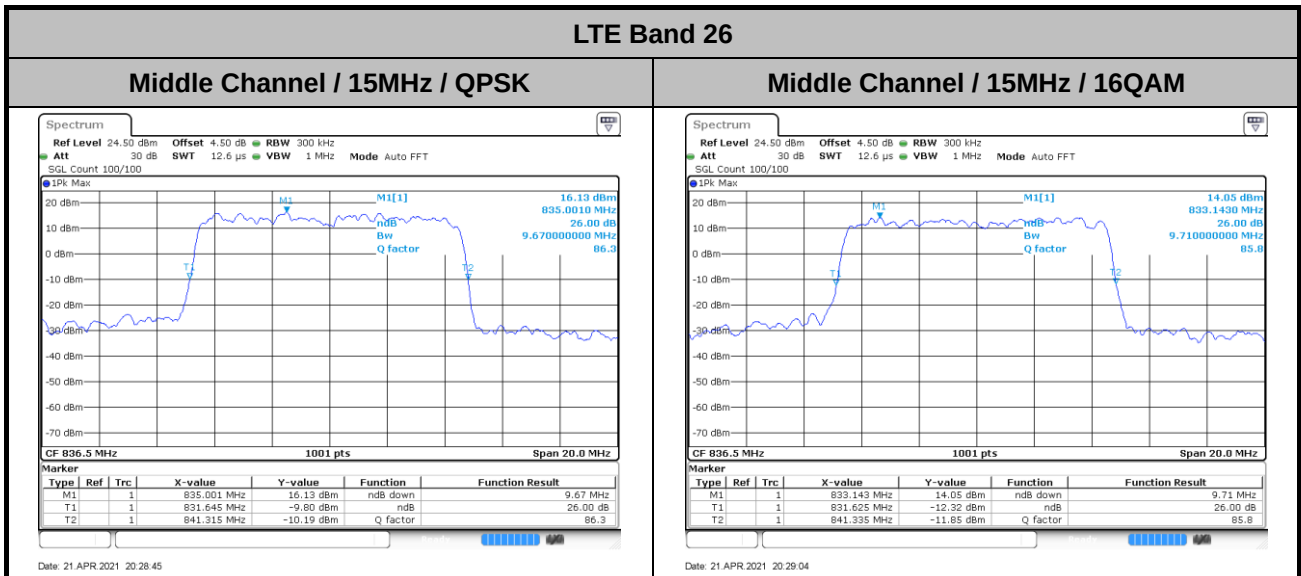
**26dB Bandwidth**

Mode	LTE Band 26 : 26dB BW(MHz)	
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	14.30	14.81





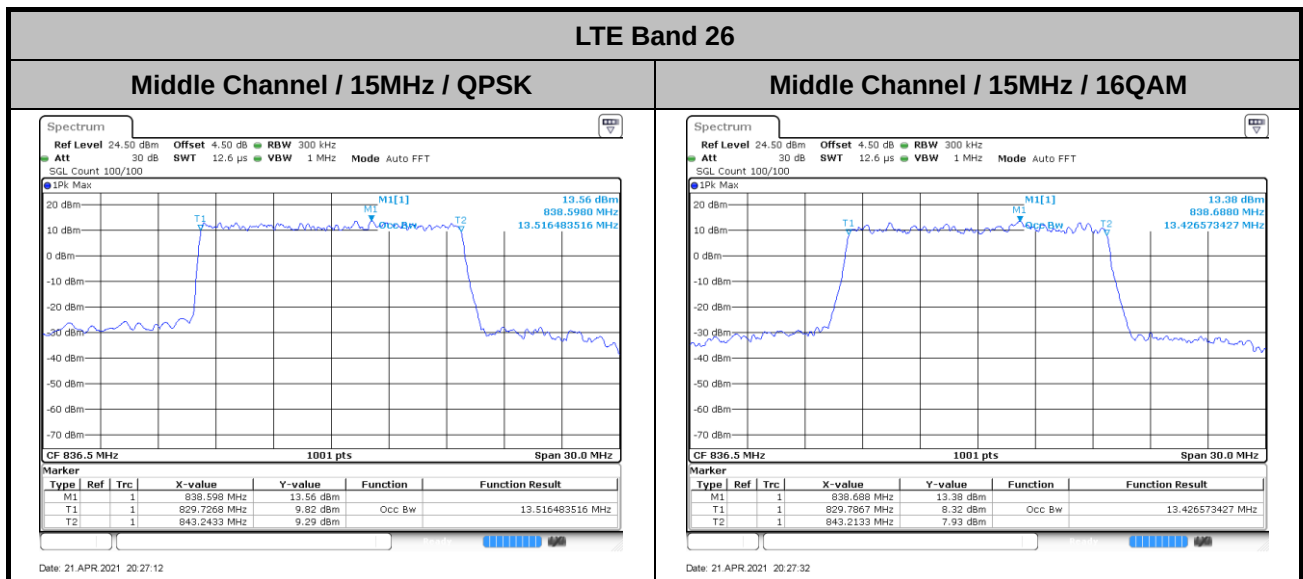
Mode	LTE Band 26 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.67	9.71





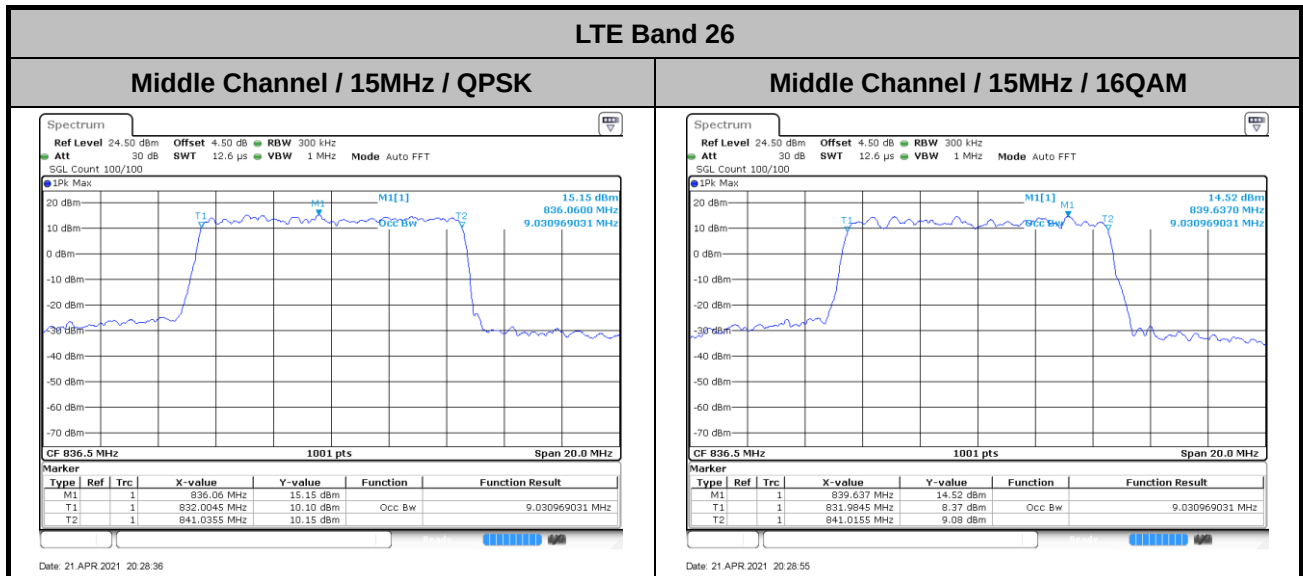
Occupied Bandwidth

Mode	LTE Band 26 : 99%OBW(MHz)	
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	13.52	13.43



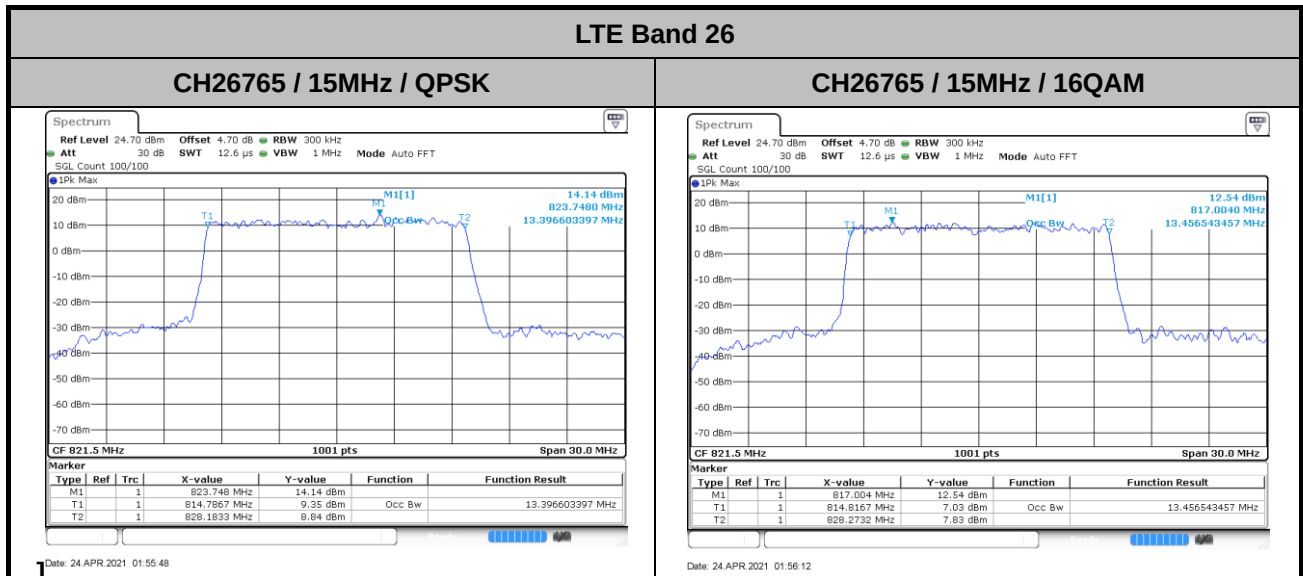


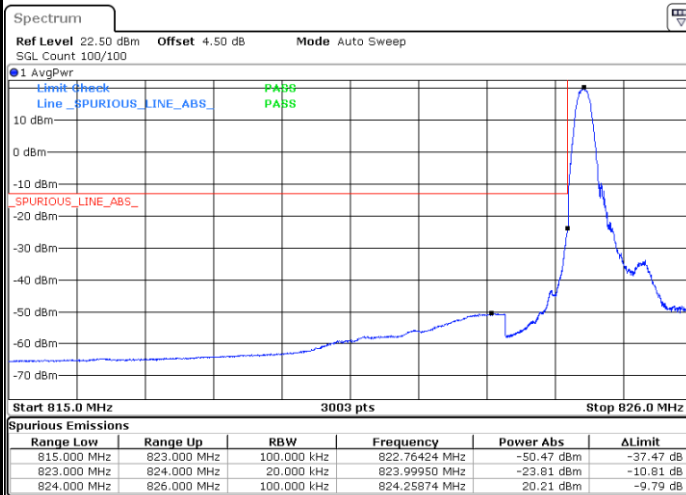
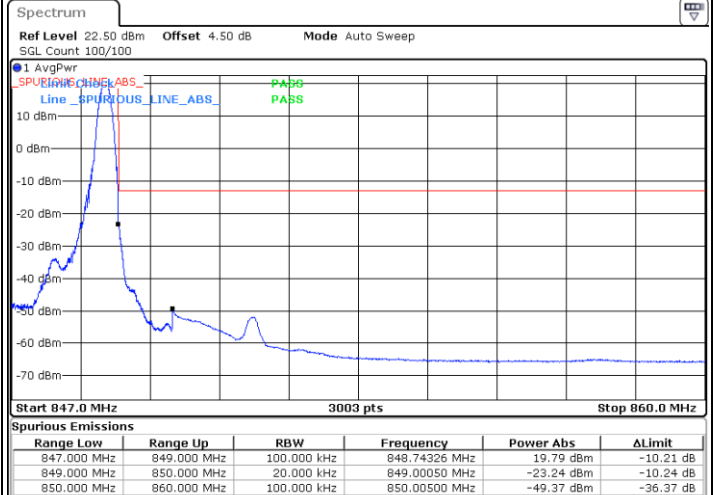
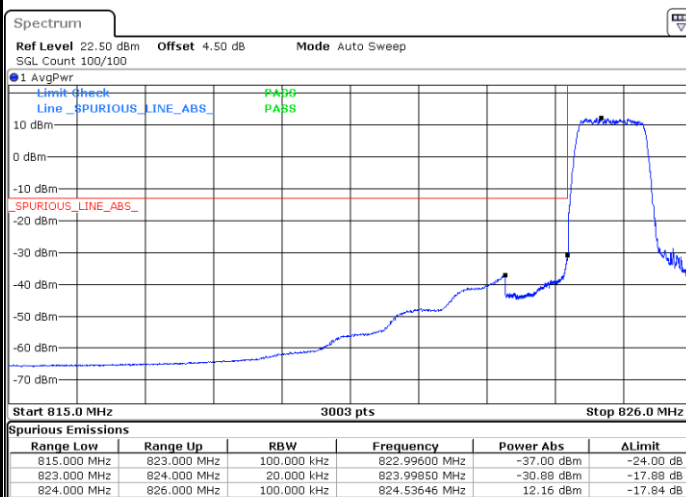
Mode	LTE Band 26 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.03	9.03





Mode	LTE Band 26 : 99%OBW(MHz)	
BW	15MHz	
Mod.	QPSK	16QAM
CH26765	13.40	13.46



**Conducted Band Edge****LTE Band 26 / 1.4MHz / QPSK****Lowest Band Edge / 1RB****Highest Band Edge / 1RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**