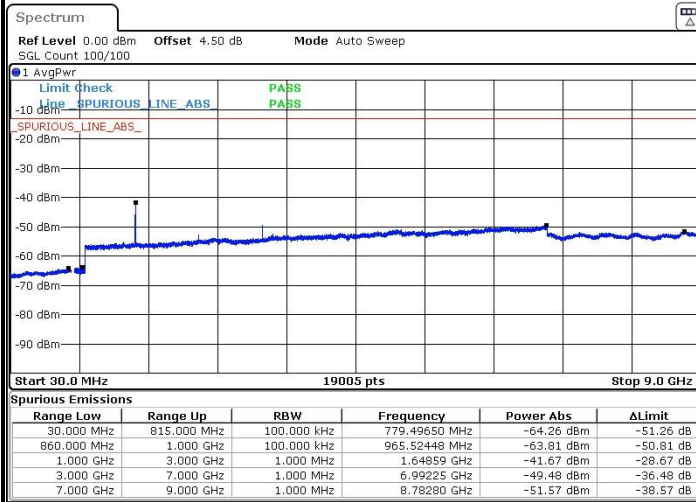




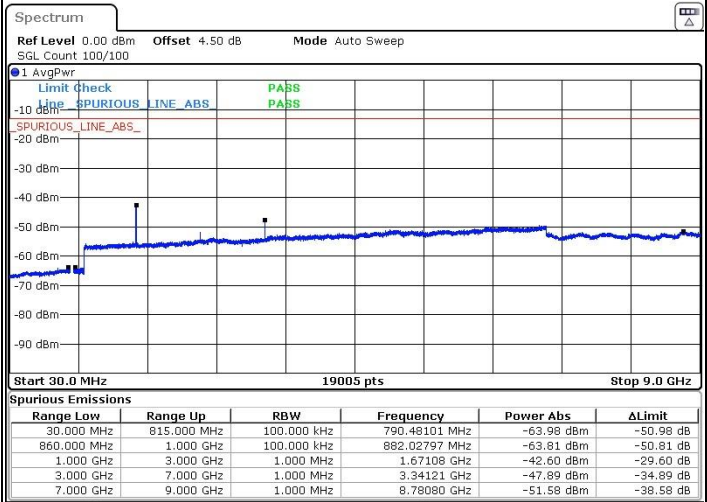
LTE Band 5 / 3MHz

Lowest Channel / QPSK



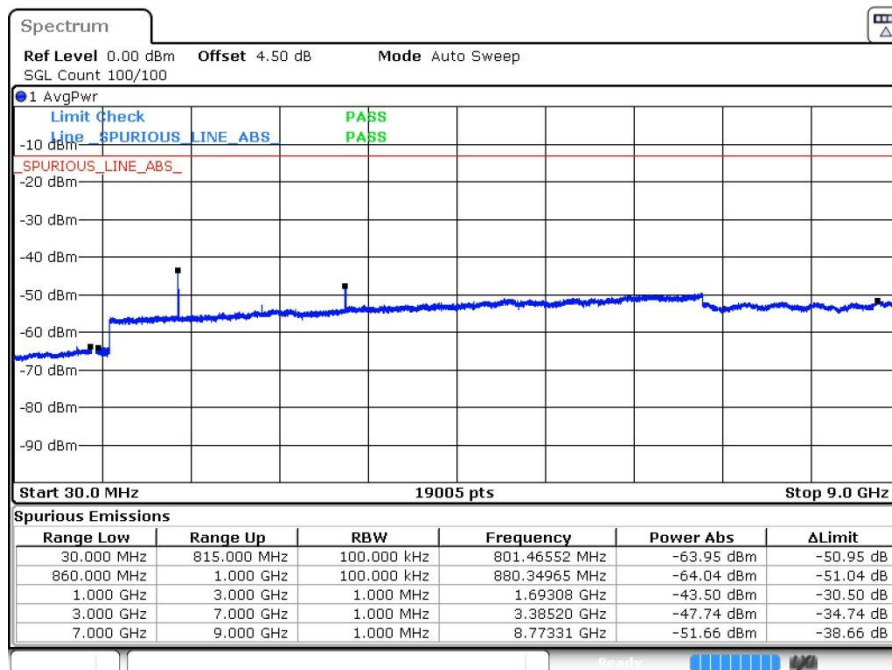
Date: 5 NOV 2021 22:13:05

Middle Channel / QPSK



Date: 5 NOV 2021 22:14:29

Highest Channel / QPSK

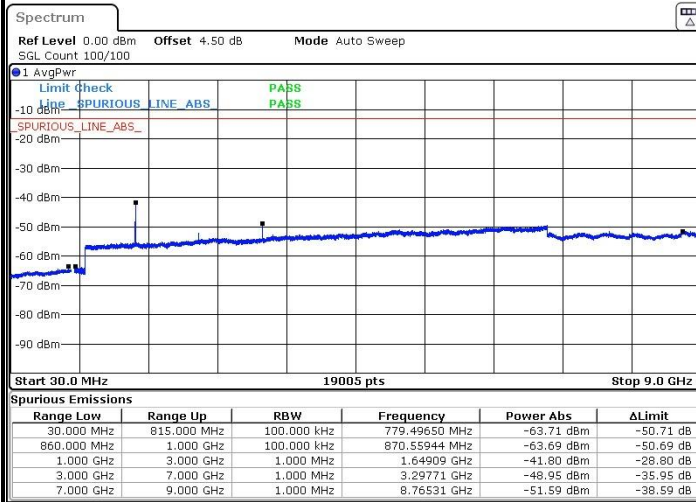


Date: 5 NOV 2021 22:15:35



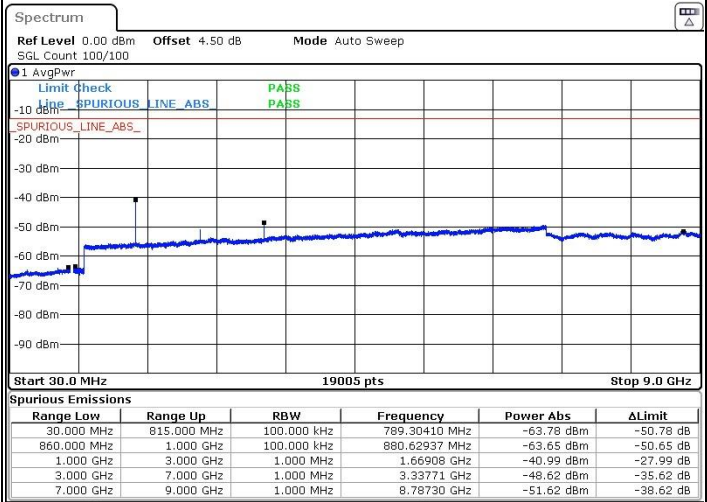
LTE Band 5 / 5MHz

Lowest Channel / QPSK



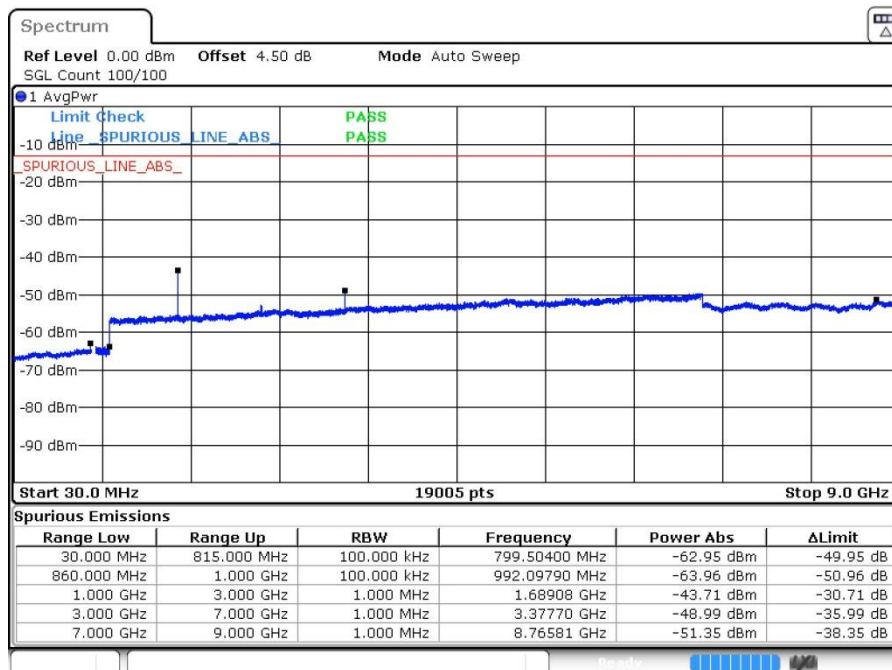
Date: 5 NOV 2021 22:10:59

Middle Channel / QPSK



Date: 5 NOV 2021 22:11:42

Highest Channel / QPSK

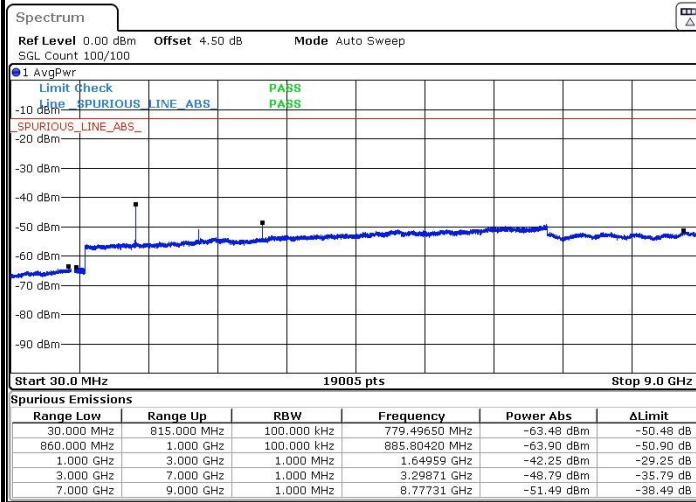


Date: 5 NOV 2021 22:12:23



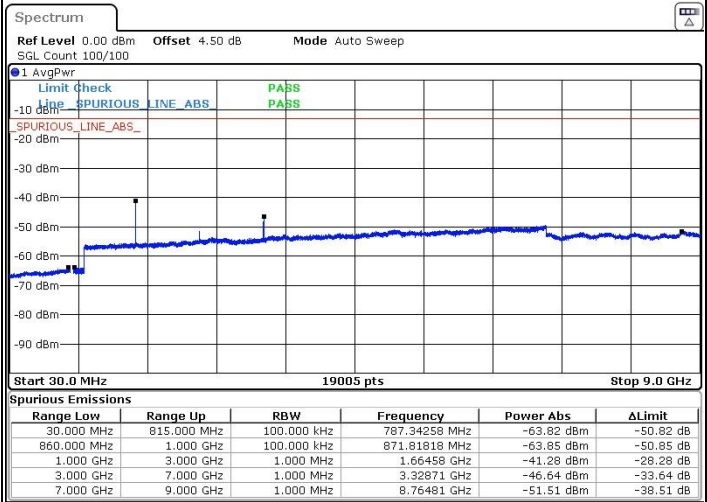
LTE Band 5 / 10MHz

Lowest Channel / QPSK



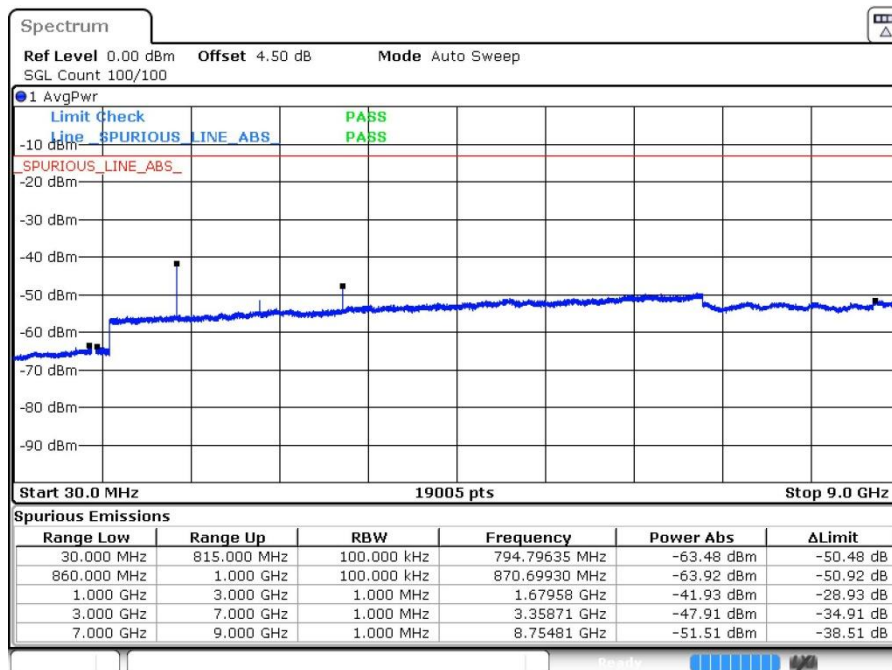
Date: 5 NOV 2021 22:06:27

Middle Channel / QPSK



Date: 5 NOV 2021 22:09:03

Highest Channel / QPSK



Date: 5 NOV 2021 22:10:00

**Frequency Stability**

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0016	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0014	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0022	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0007	
-30	Normal Voltage	0.0015	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0023	
20	Battery End Point	0.0012	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.2V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



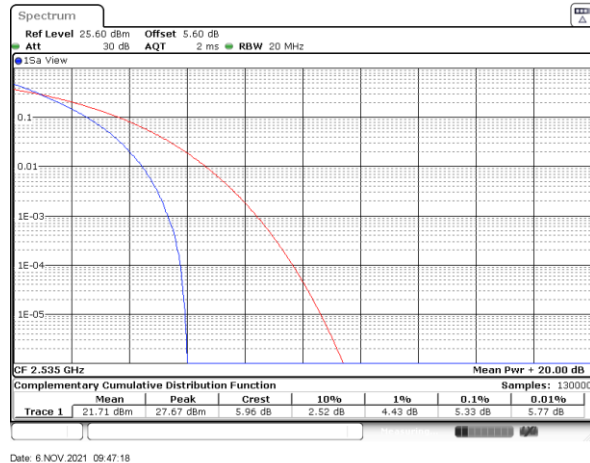
LTE Band 7

Peak-to-Average Ratio

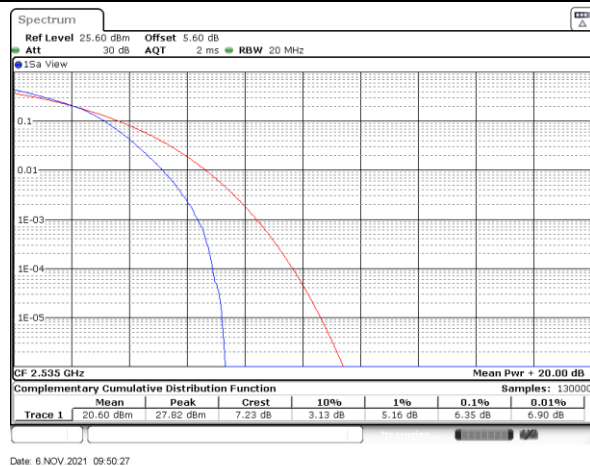
Mode	LTE Band 7 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.33	6.35	6.75	PASS

LTE Band 7 / 20MHz

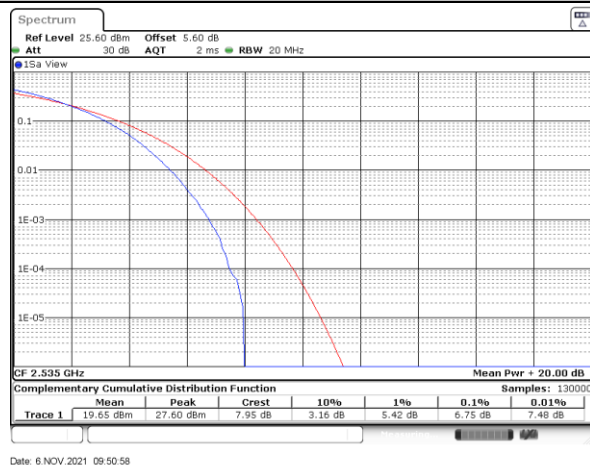
Middle Channel / Full RB/ QPSK



Middle Channel / Full RB/ 16QAM

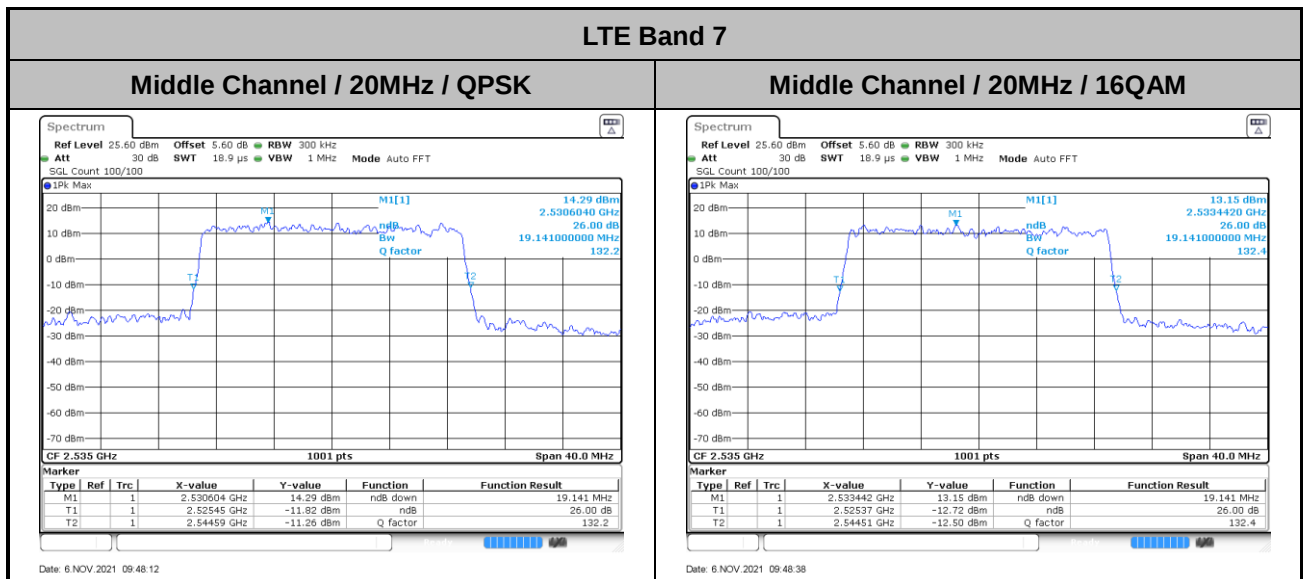


Middle Channel / Full RB/ 64QAM



**26dB Bandwidth**

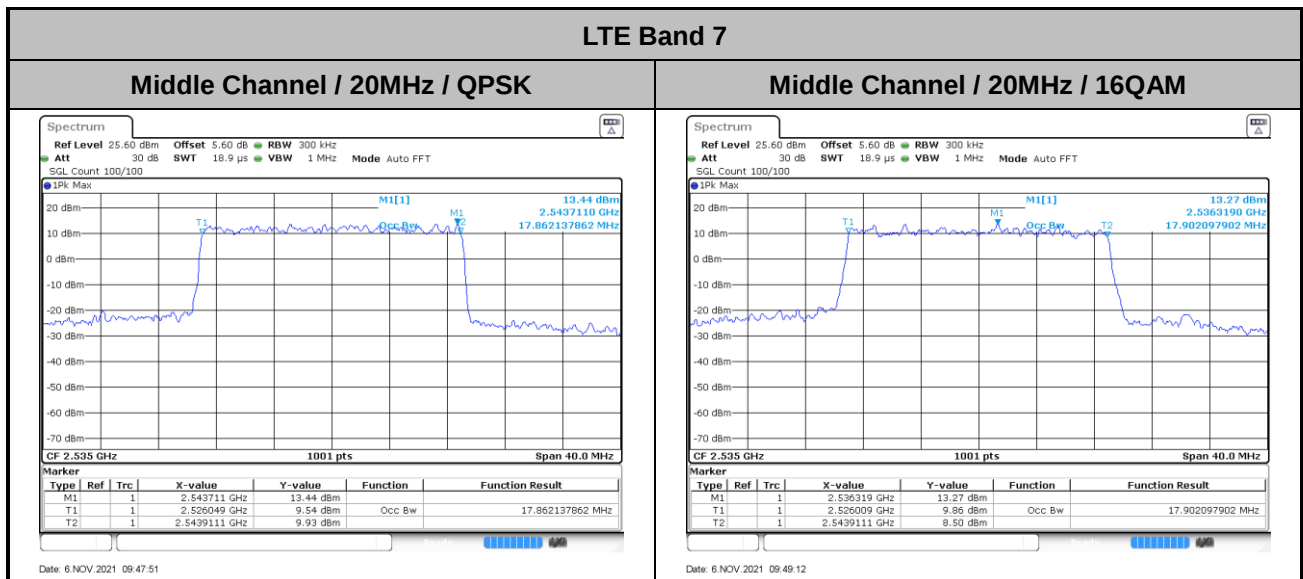
Mode	LTE Band 7 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	19.14	19.14





Occupied Bandwidth

Mode	LTE Band 7 : 99%OBW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.86	17.90

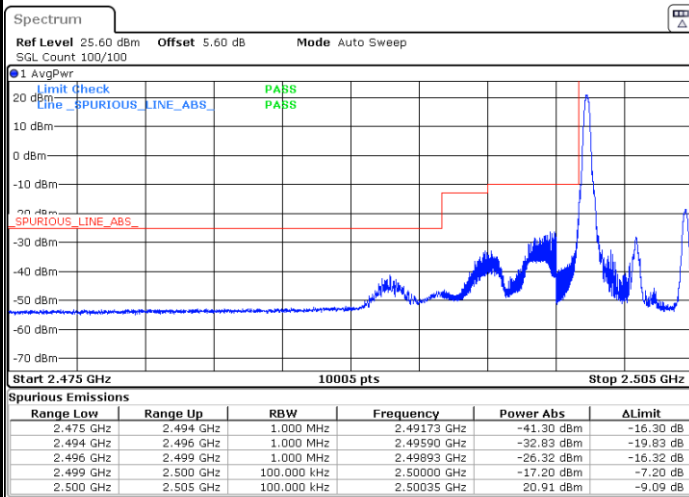




Conducted Band Edge

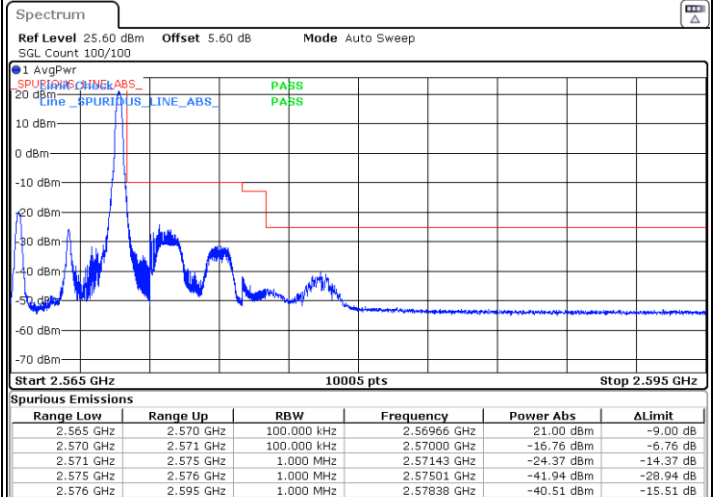
LTE Band 7 / 5MHz / QPSK

Lowest Band Edge / 1 RB



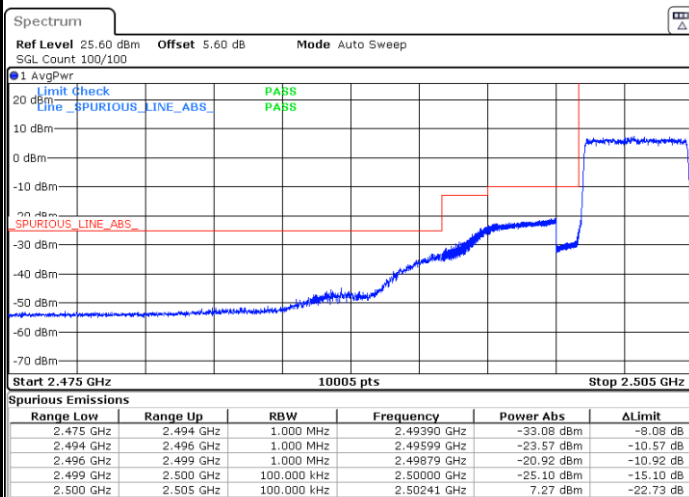
Date: 6 NOV. 2021 08:33:11

Highest Band Edge / 1 RB



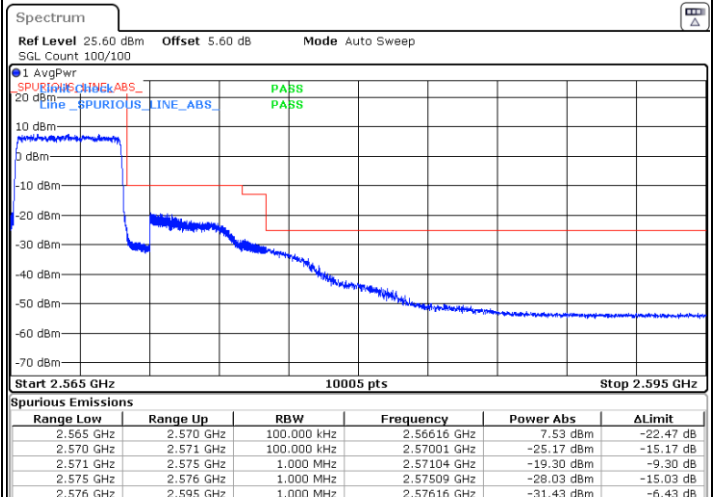
Date: 6 NOV. 2021 08:38:34

Lowest Band Edge / Full RB



Date: 6 NOV. 2021 08:35:53

Highest Band Edge / Full RB

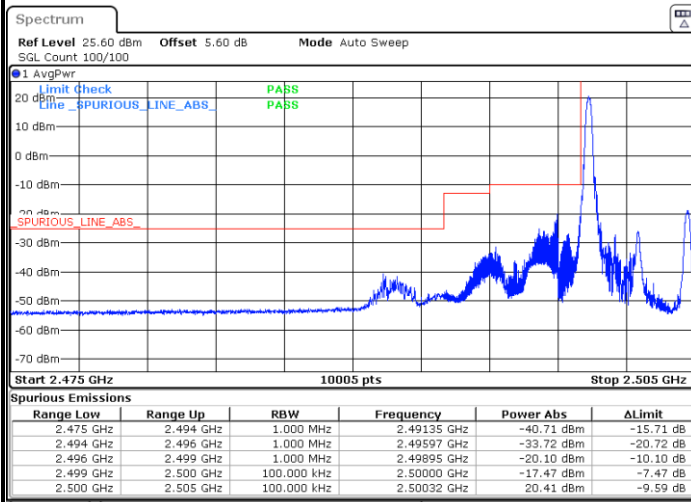


Date: 6 NOV. 2021 08:41:15



LTE Band 7 / 5MHz / 16QAM

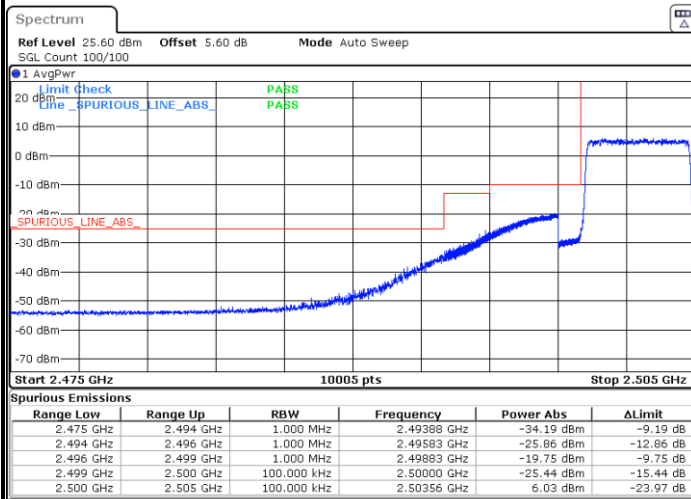
Lowest Band Edge / 1RB



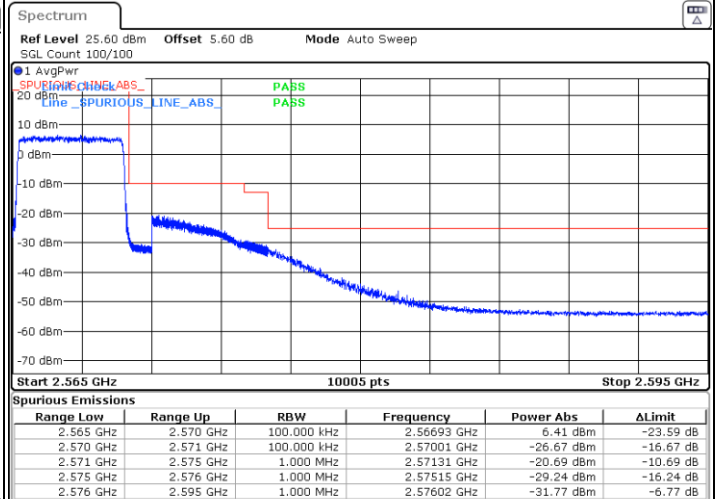
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



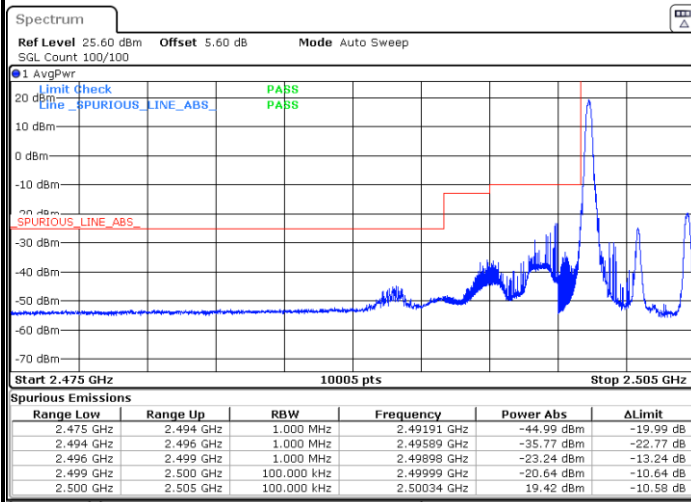
Highest Band Edge / Full RB



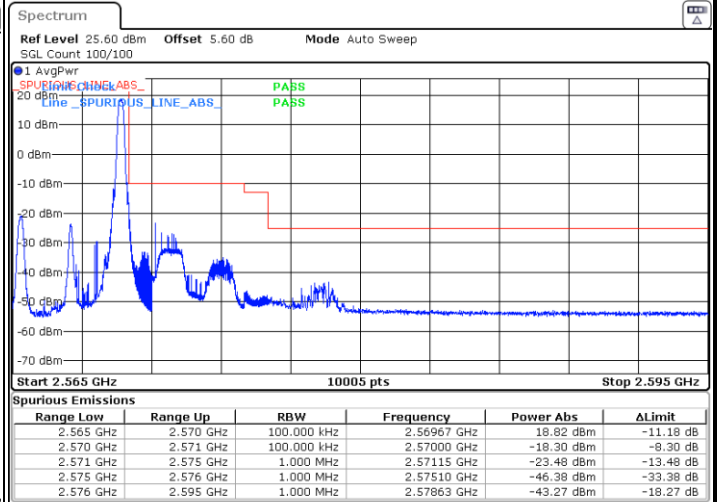


LTE Band 7 / 5MHz / 64QAM

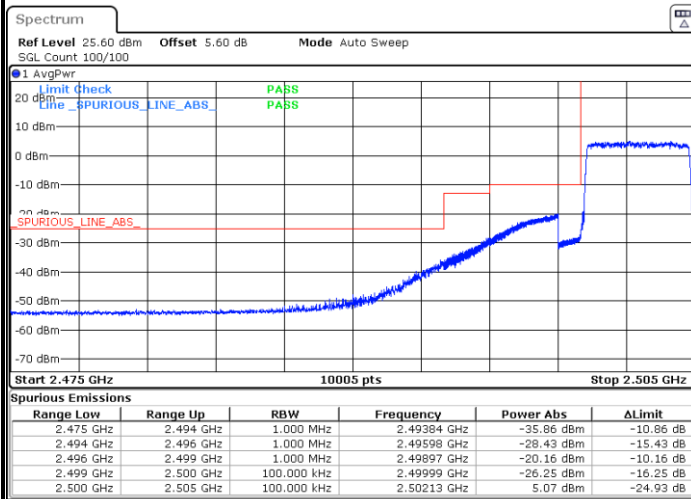
Lowest Band Edge / 1RB



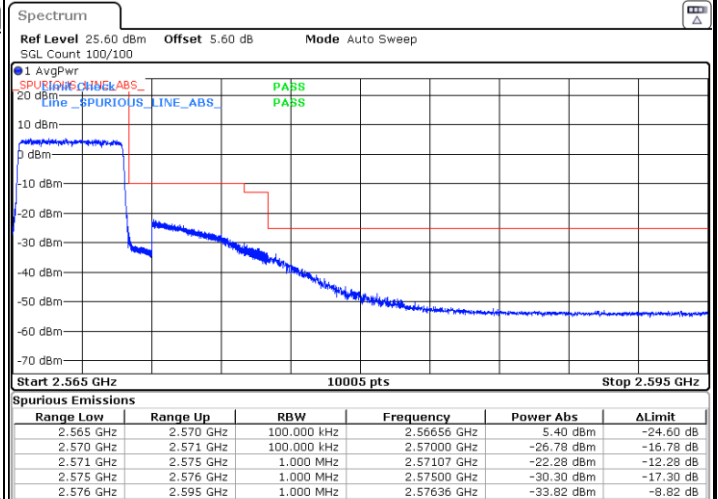
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



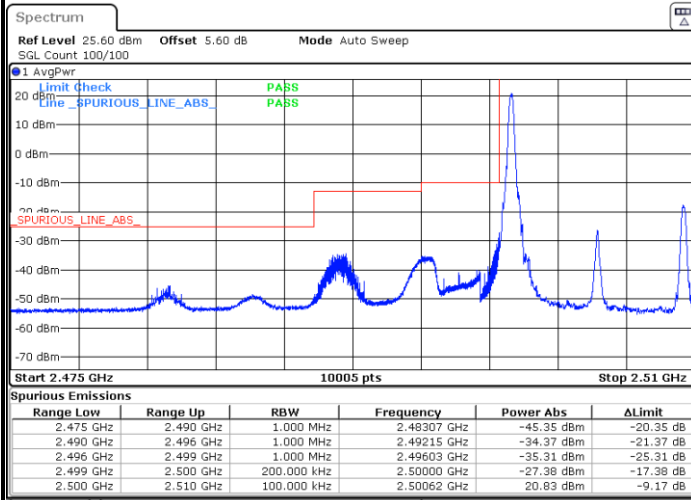
Highest Band Edge / Full RB





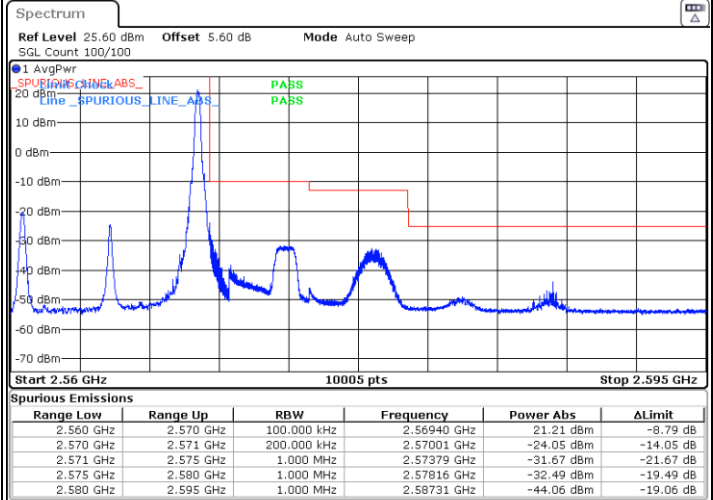
LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB



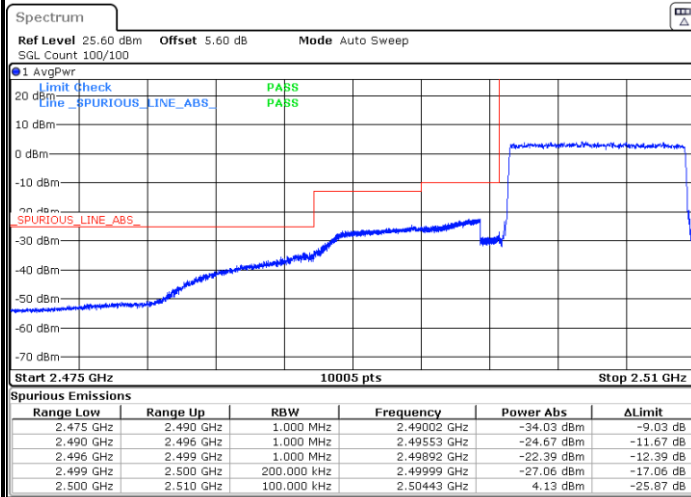
Date: 6 NOV 2021 08:49:19

Highest Band Edge / 1 RB



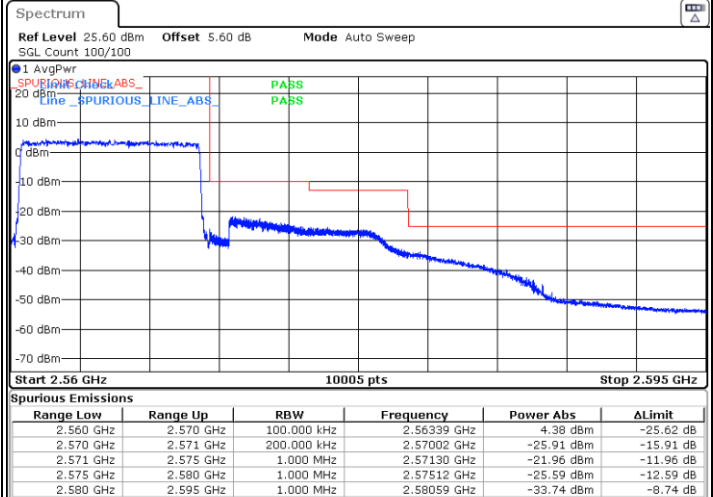
Date: 6 NOV 2021 08:54:41

Lowest Band Edge / Full RB



Date: 6 NOV 2021 08:52:00

Highest Band Edge / Full RB

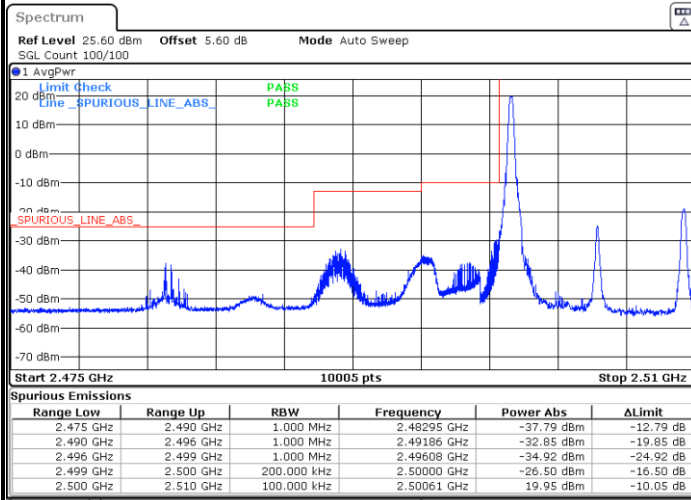


Date: 6 NOV 2021 08:57:22



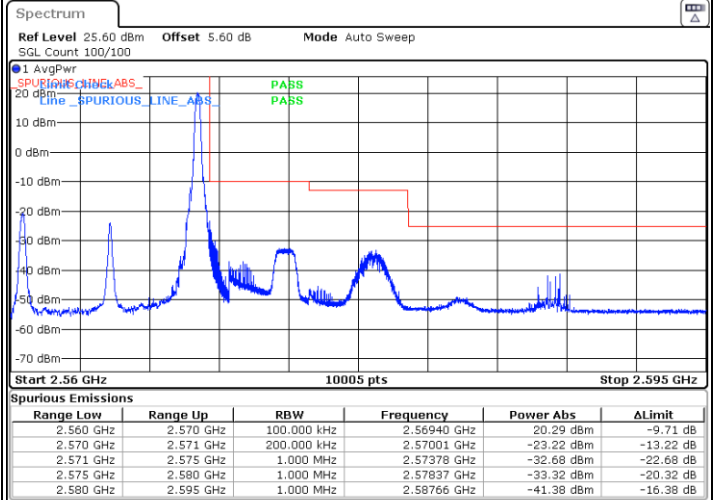
LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



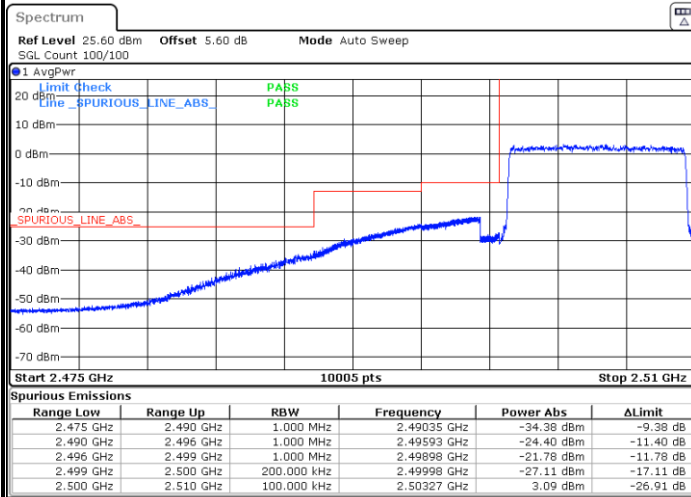
Date: 6 NOV 2021 08:50:40

Highest Band Edge / 1 RB



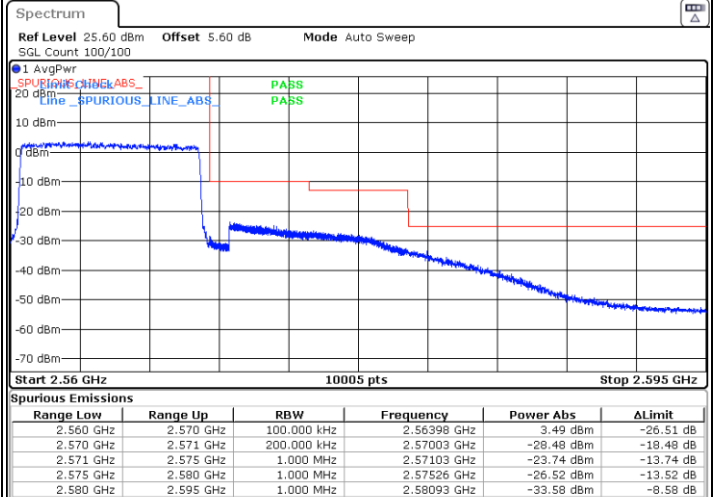
Date: 6 NOV 2021 08:56:01

Lowest Band Edge / Full RB



Date: 6 NOV 2021 08:53:20

Highest Band Edge / Full RB

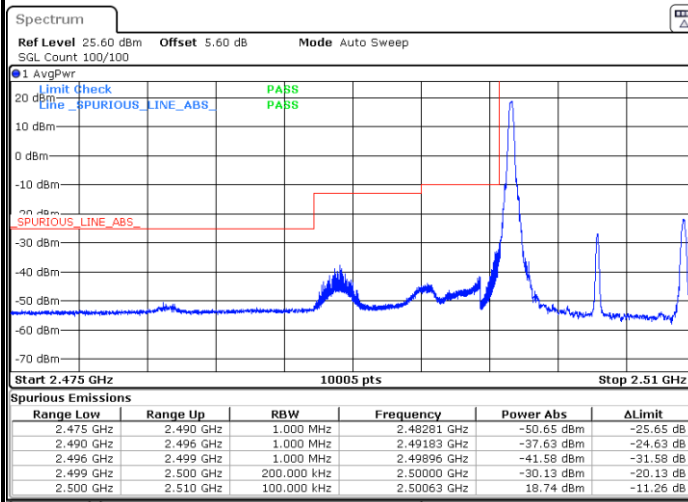


Date: 6 NOV 2021 09:00:31



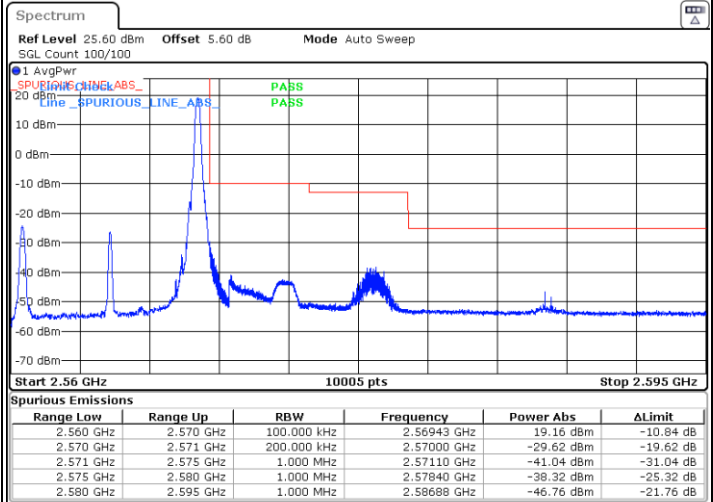
LTE Band 7 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



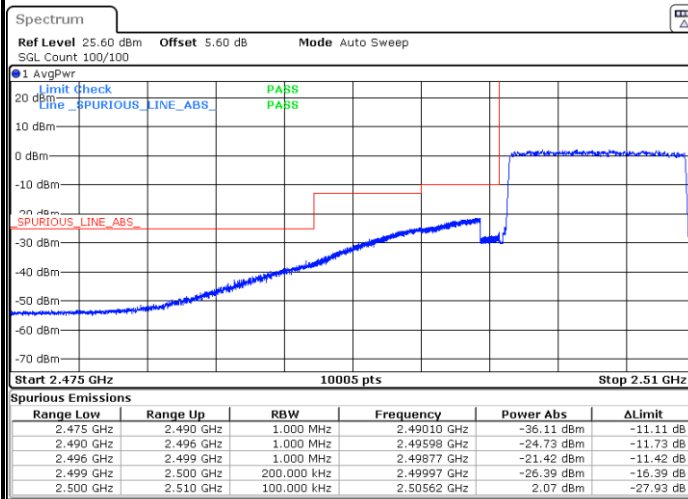
Date: 6 NOV. 2021 09:01:51

Highest Band Edge / 1 RB



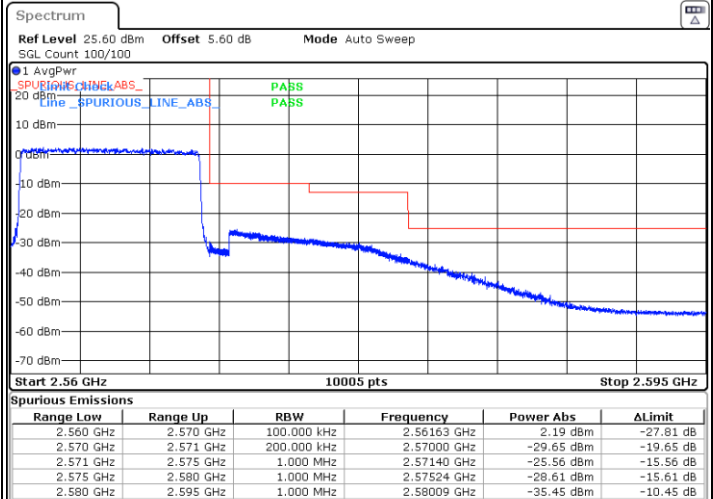
Date: 6 NOV. 2021 09:04:32

Lowest Band Edge / Full RB



Date: 6 NOV. 2021 09:03:12

Highest Band Edge / Full RB

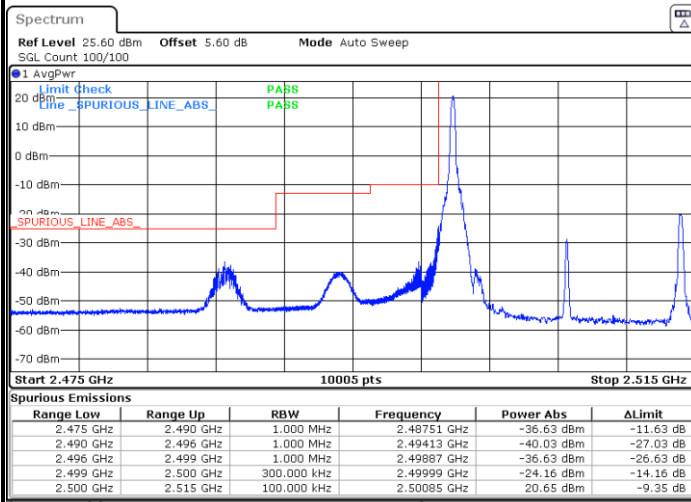


Date: 6 NOV. 2021 09:05:53

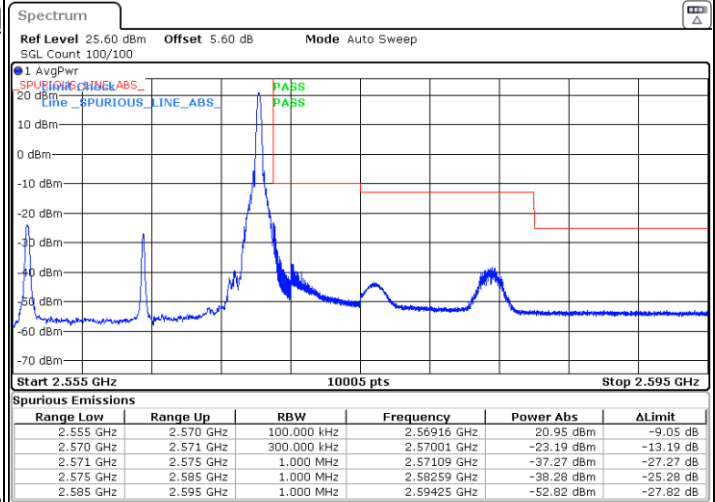


LTE Band 7 / 15MHz / QPSK

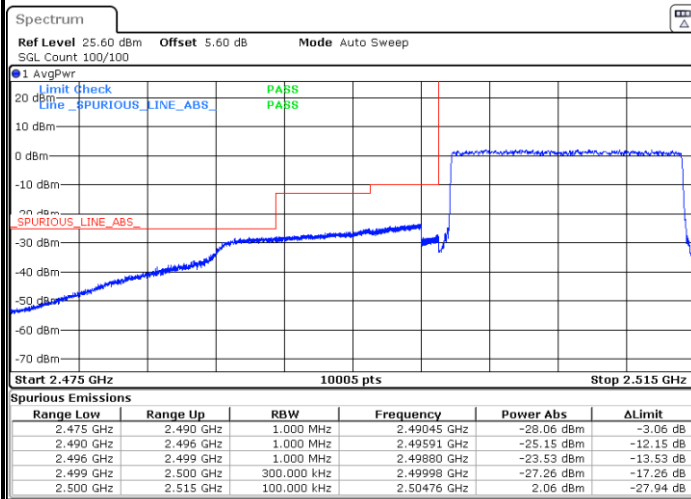
Lowest Band Edge / 1 RB



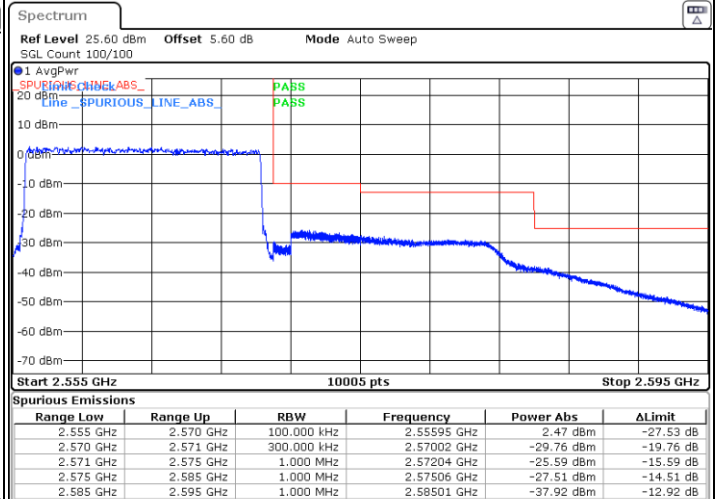
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



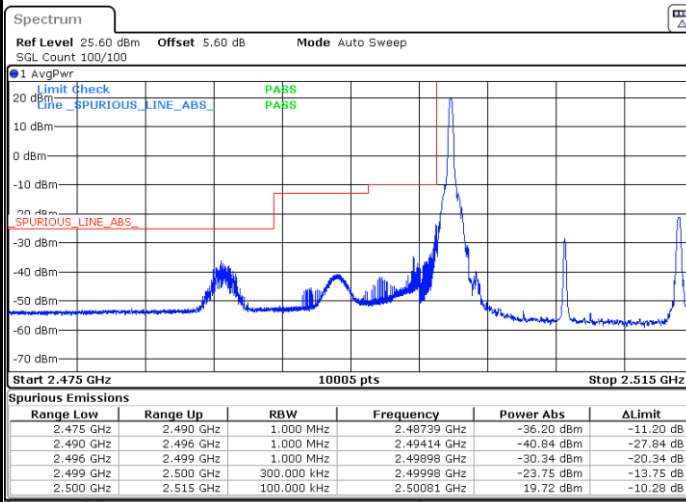
Highest Band Edge / Full RB



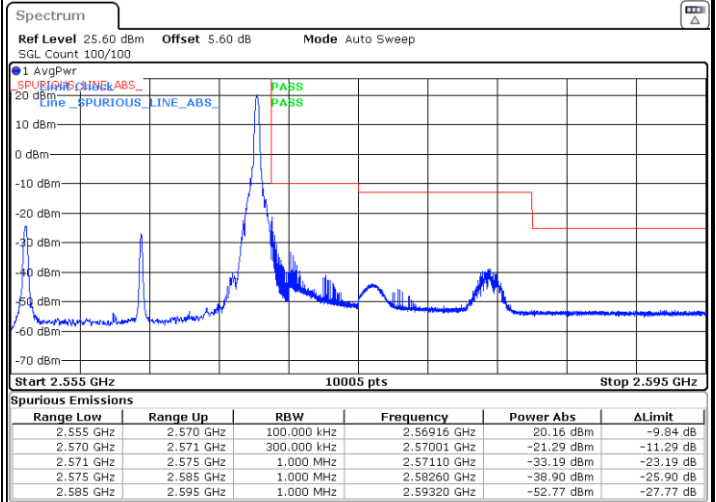


LTE Band 7 / 15MHz / 16QAM

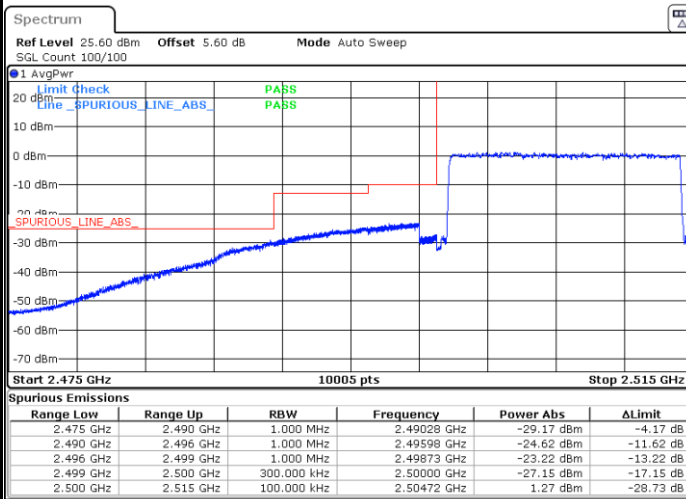
Lowest Band Edge / 1 RB



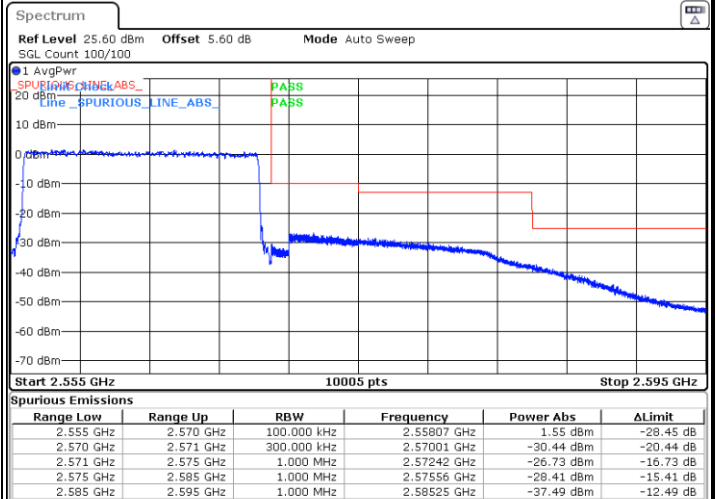
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



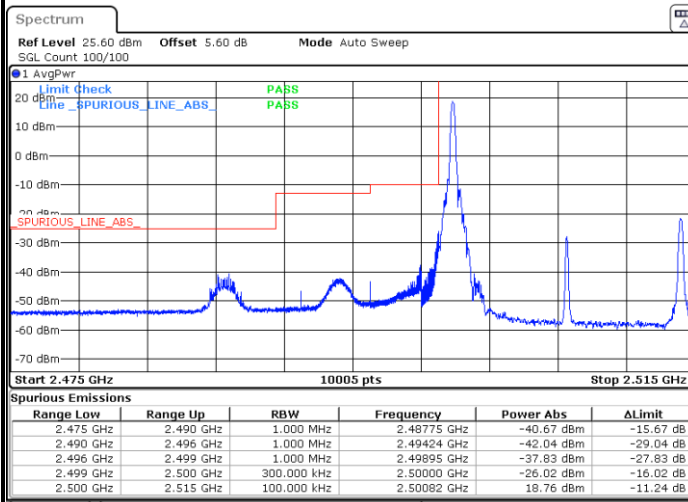
Highest Band Edge / Full RB



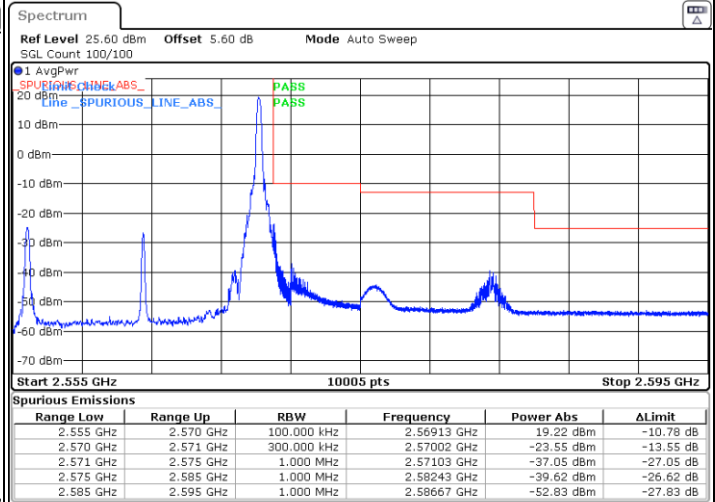


LTE Band 7 / 15MHz / 64QAM

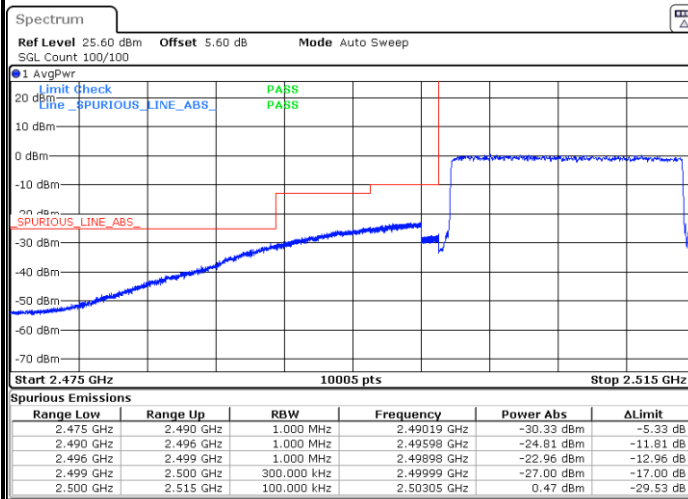
Lowest Band Edge / 1 RB



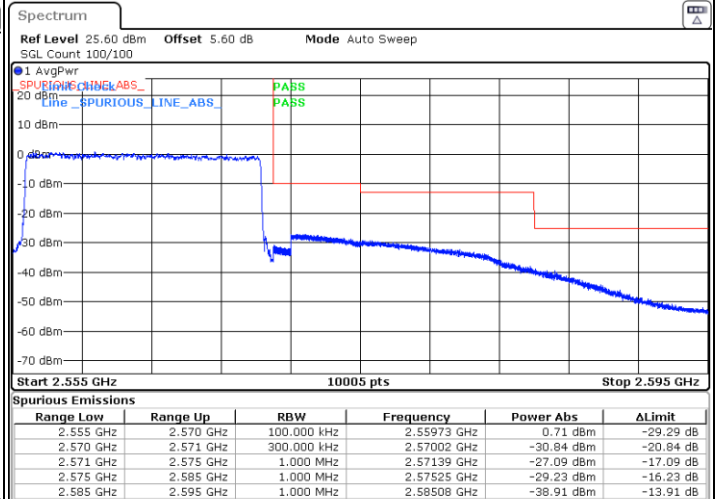
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



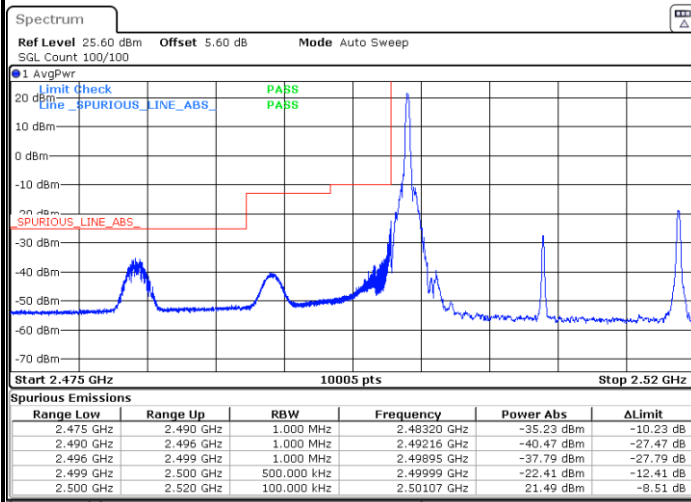
Highest Band Edge / Full RB



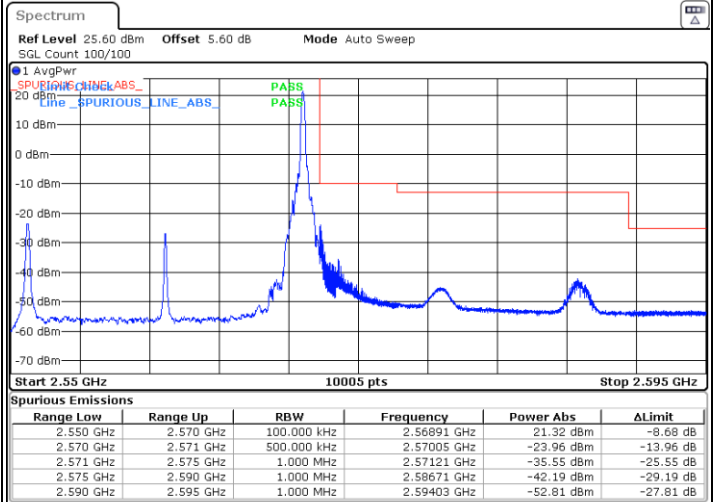


LTE Band 7 / 20MHz / QPSK

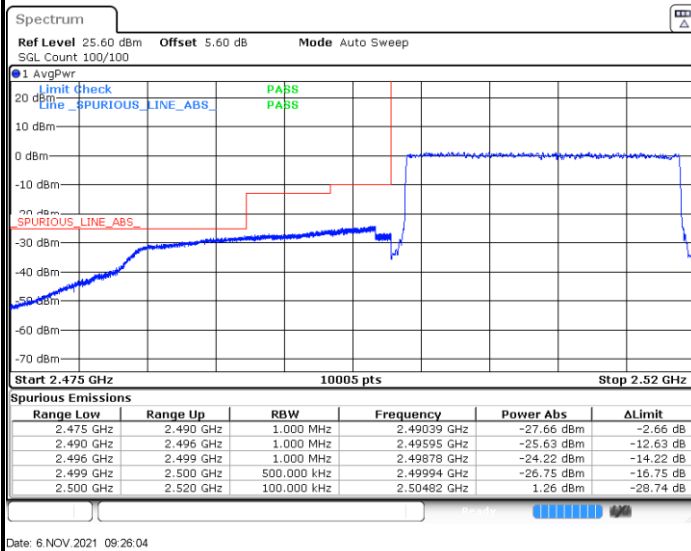
Lowest Band Edge / 1 RB



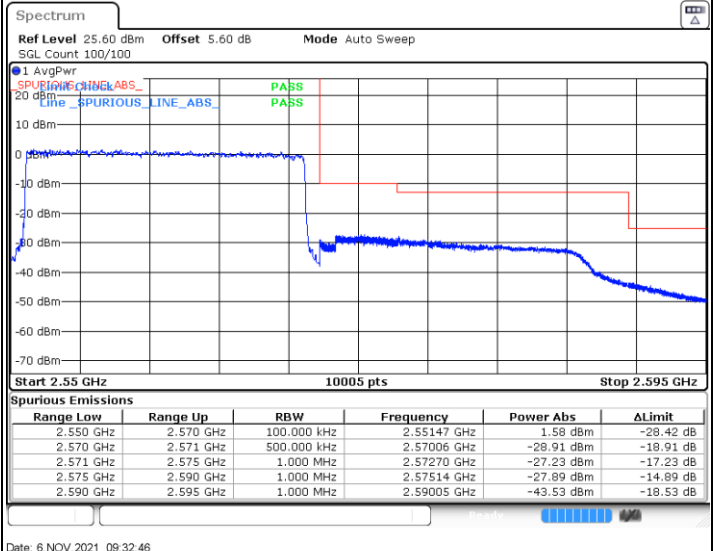
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



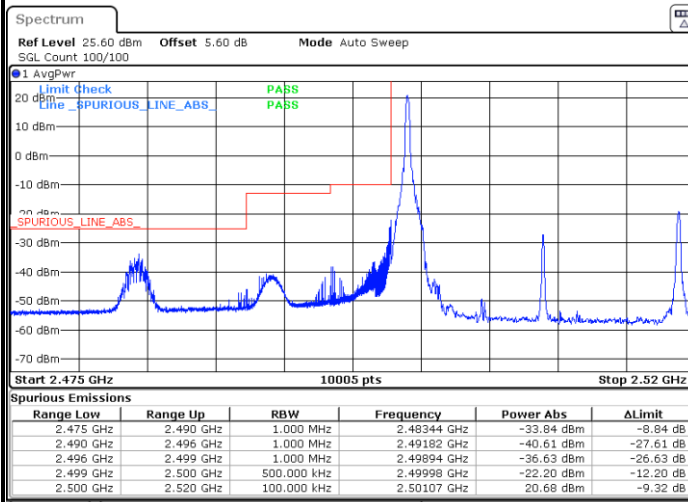
Highest Band Edge / Full RB



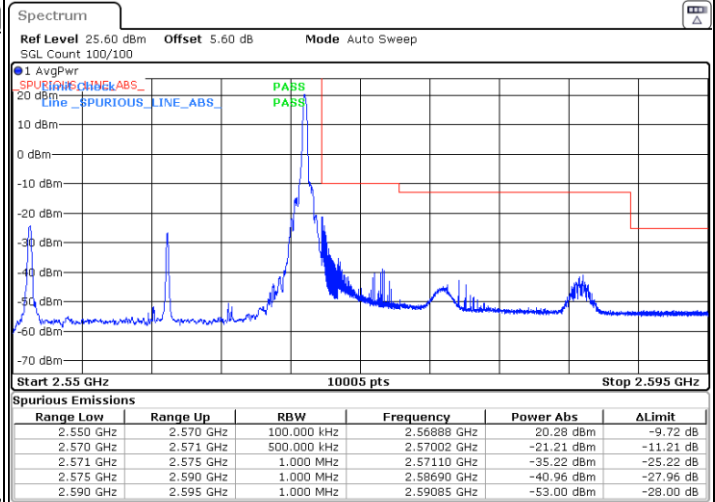


LTE Band 7 / 20MHz / 16QAM

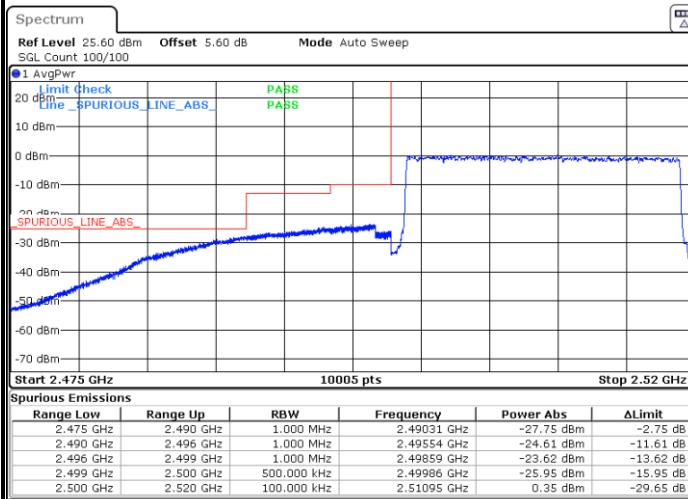
Lowest Band Edge / 1 RB



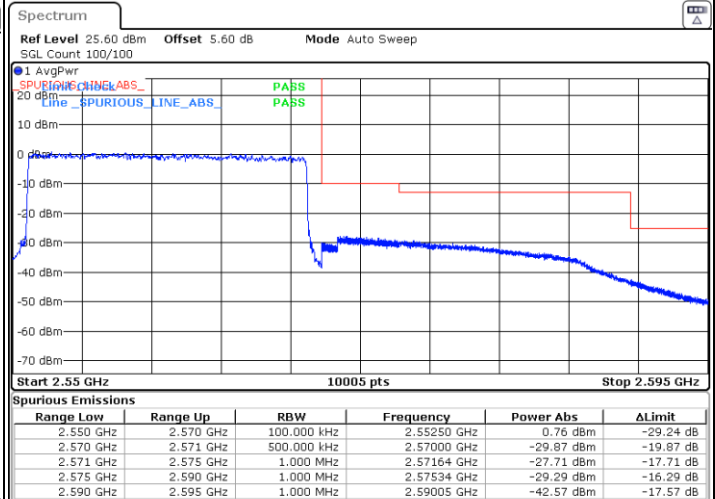
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



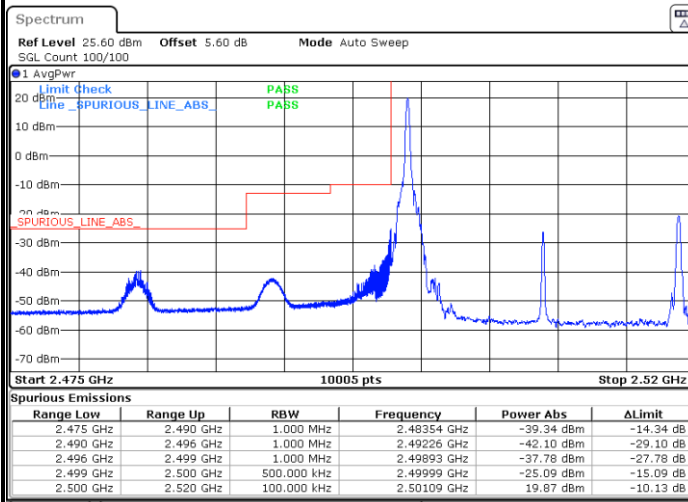
Highest Band Edge / Full RB



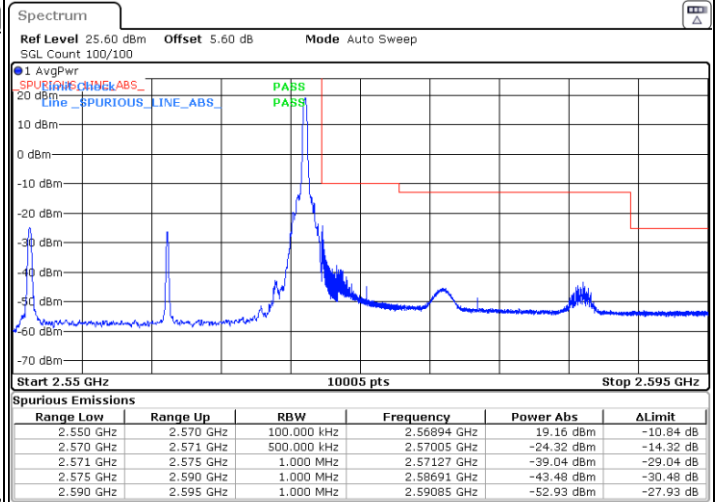


LTE Band 7 / 20MHz / 64QAM

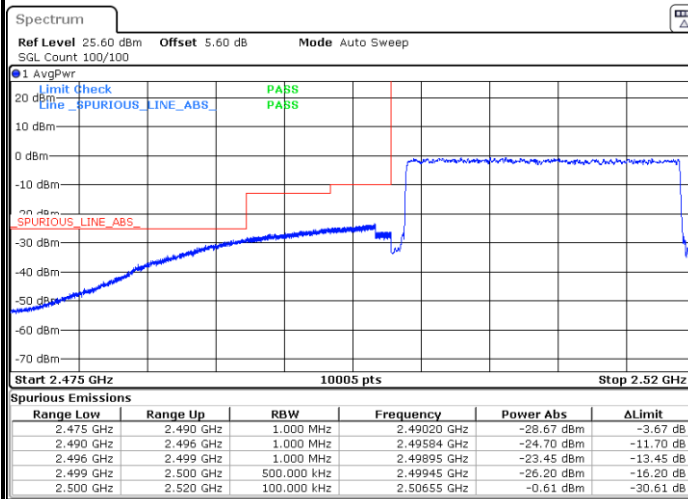
Lowest Band Edge / 1 RB



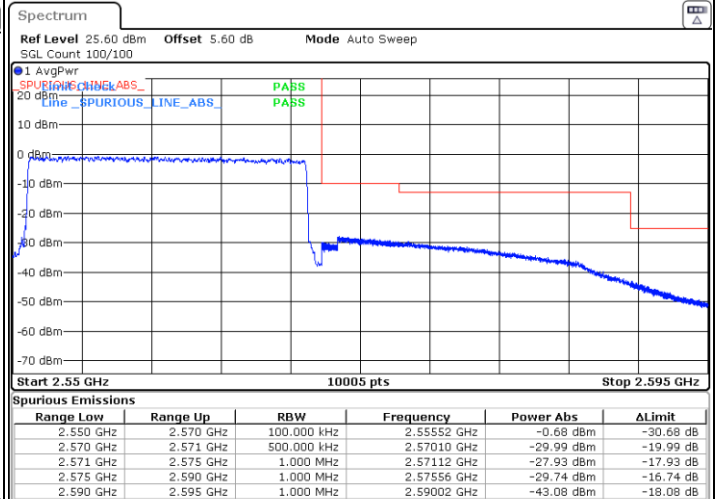
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

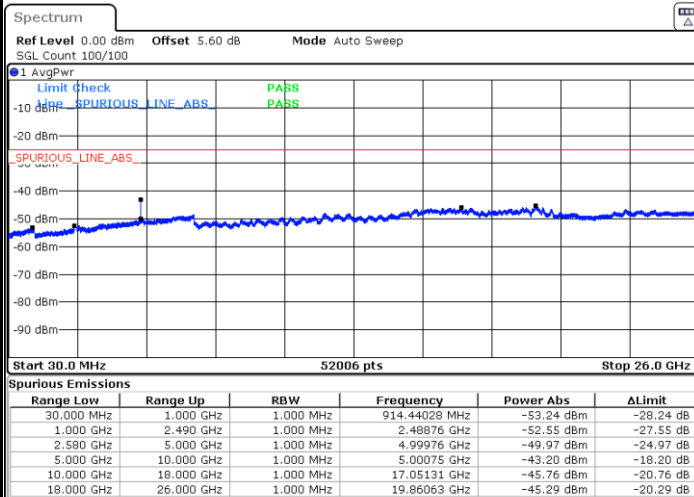




Conducted Spurious Emission

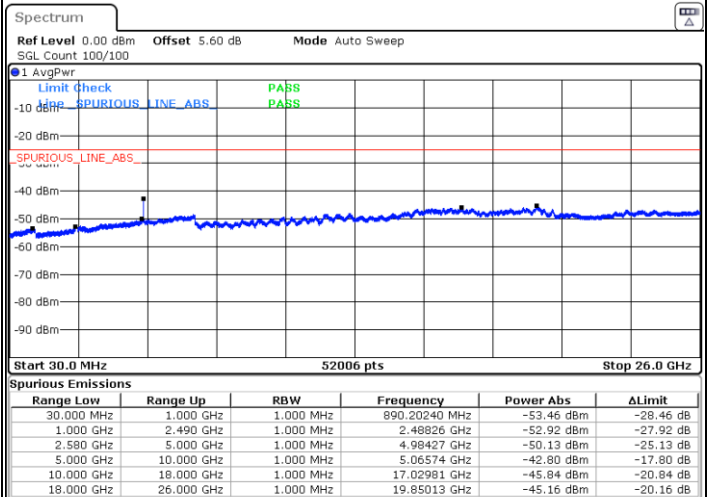
LTE Band 7 / 5MHz

Lowest Channel / QPSK



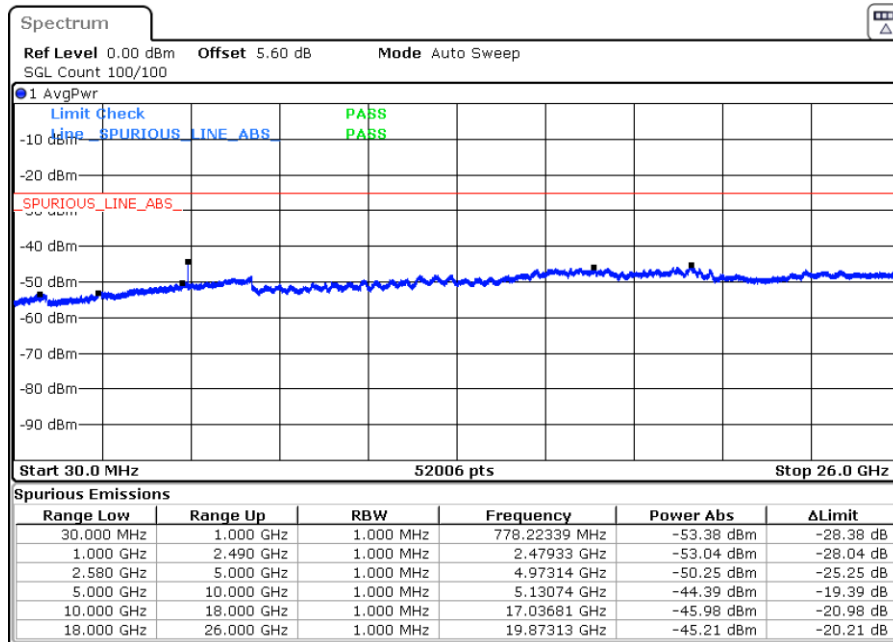
Date: 6 NOV. 2021 10:24:29

Middle Channel / QPSK



Date: 6 NOV. 2021 10:22:51

Highest Channel / QPSK

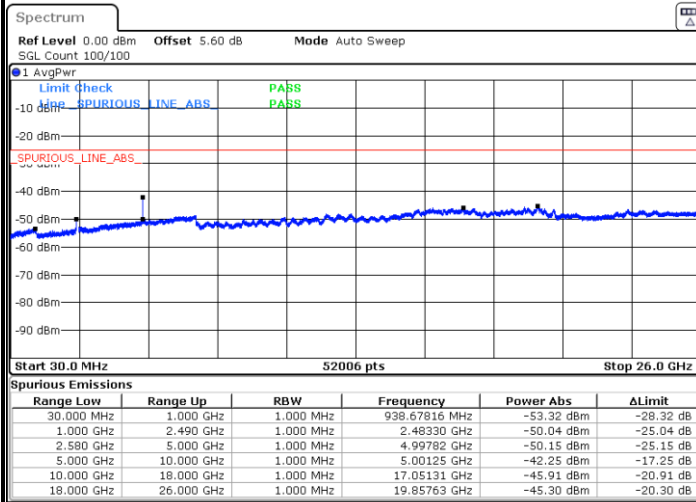


Date: 6 NOV. 2021 10:25:55



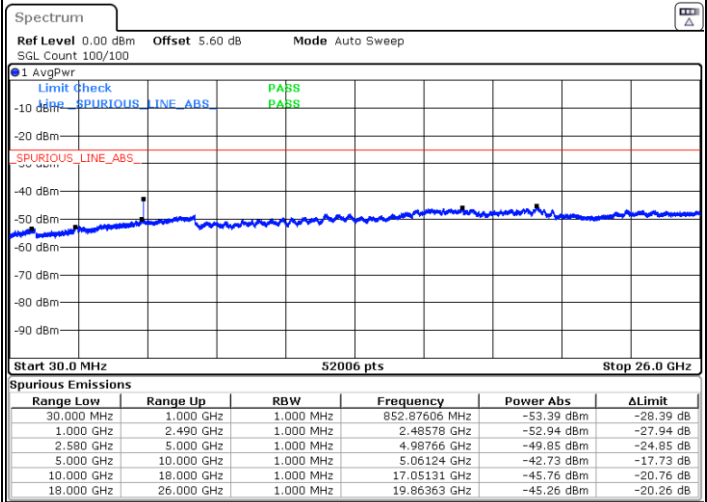
LTE Band 7 / 10MHz

Lowest Channel / QPSK



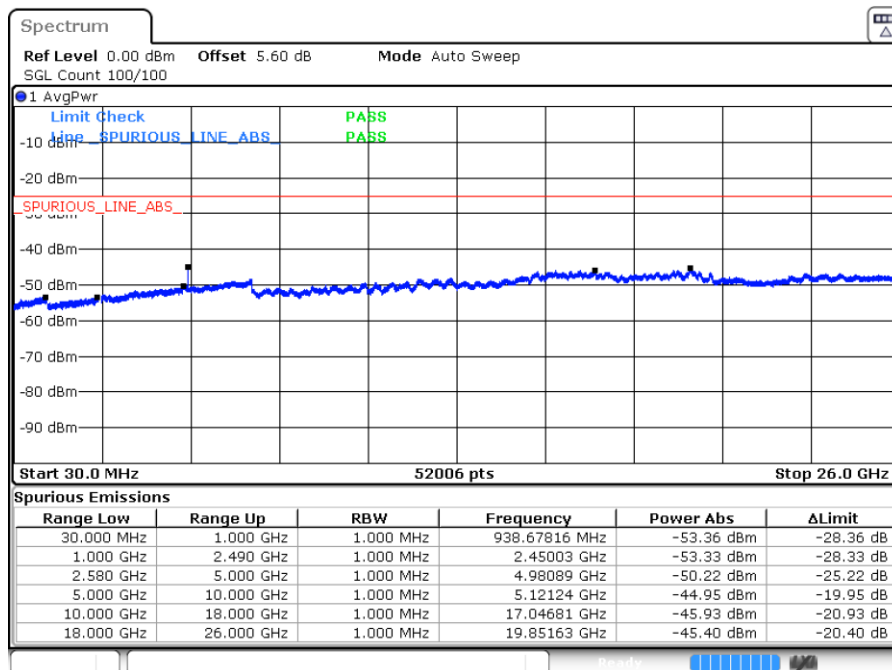
Date: 6 NOV 2021 10:18:49

Middle Channel / QPSK



Date: 6 NOV 2021 10:16:39

Highest Channel / QPSK

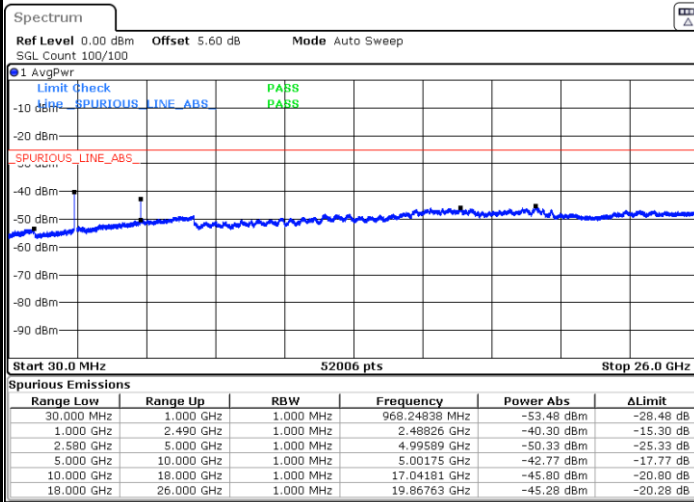


Date: 6 NOV 2021 10:20:39



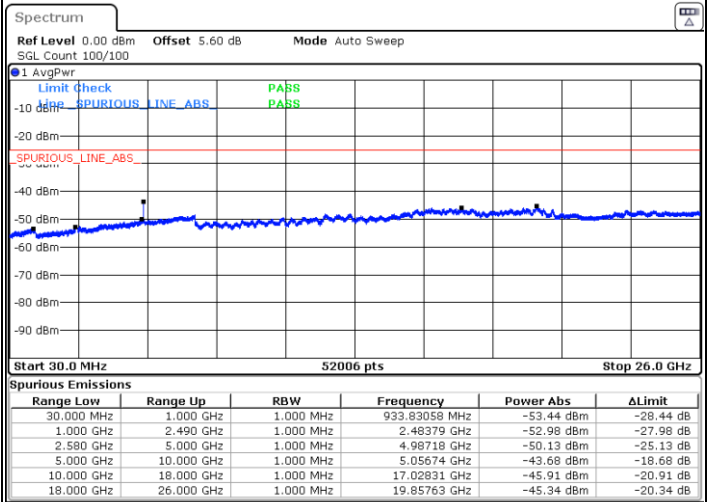
LTE Band 7 / 15MHz

Lowest Channel / QPSK



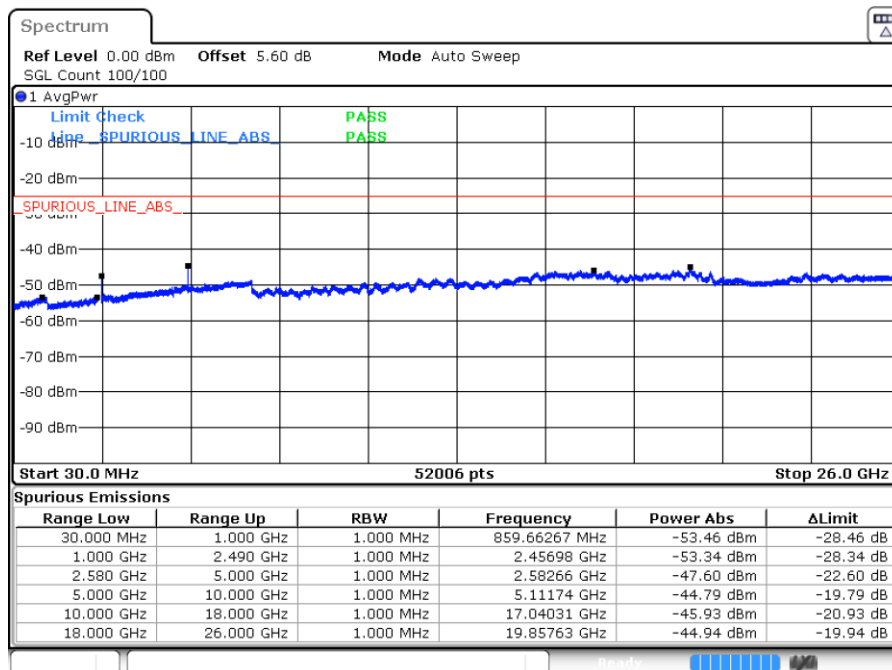
Date: 6 NOV 2021 10:12:41

Middle Channel / QPSK



Date: 6 NOV 2021 10:11:11

Highest Channel / QPSK

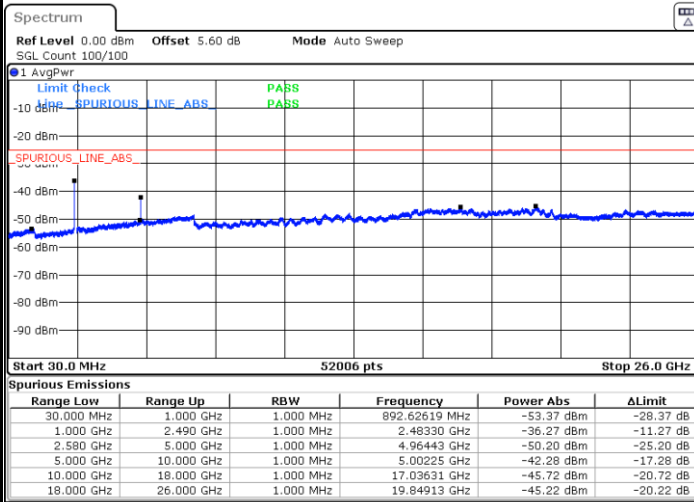


Date: 6 NOV 2021 10:14:13



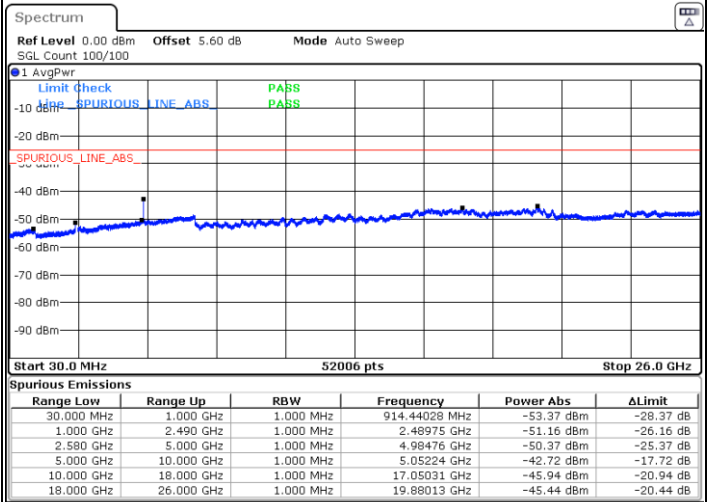
LTE Band 7 / 20MHz

Lowest Channel / QPSK



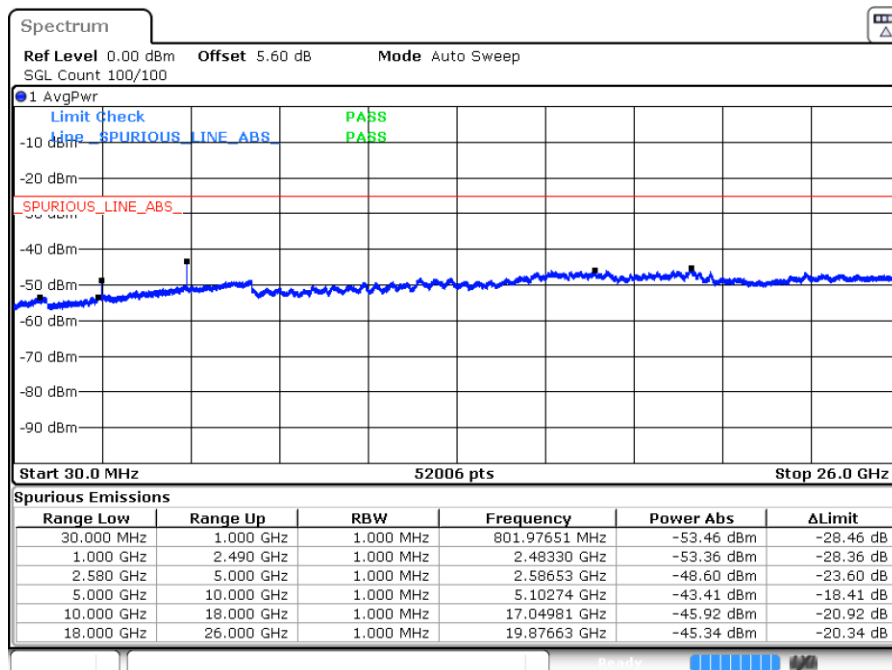
Date: 6 NOV 2021 10:06:30

Middle Channel / QPSK



Date: 6 NOV 2021 08:28:23

Highest Channel / QPSK



Date: 6 NOV 2021 09:58:44

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	0.0021	PASS
40	Normal Voltage	0.0025	
30	Normal Voltage	0.0002	
20(Ref.)	Normal Voltage	0.0008	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0032	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0025	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0013	
20	Battery End Point	0.0016	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41

Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.22	6.09	6.55	PASS

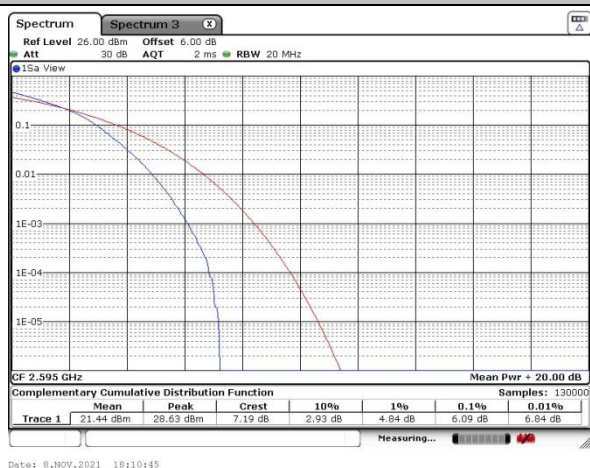


LTE Band 41 / 20MHz

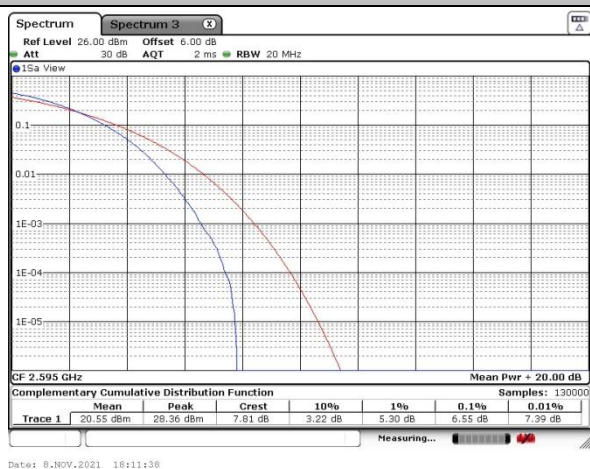
Middle Channel / Full RB / QPSK



Middle Channel / Full RB / 16QAM

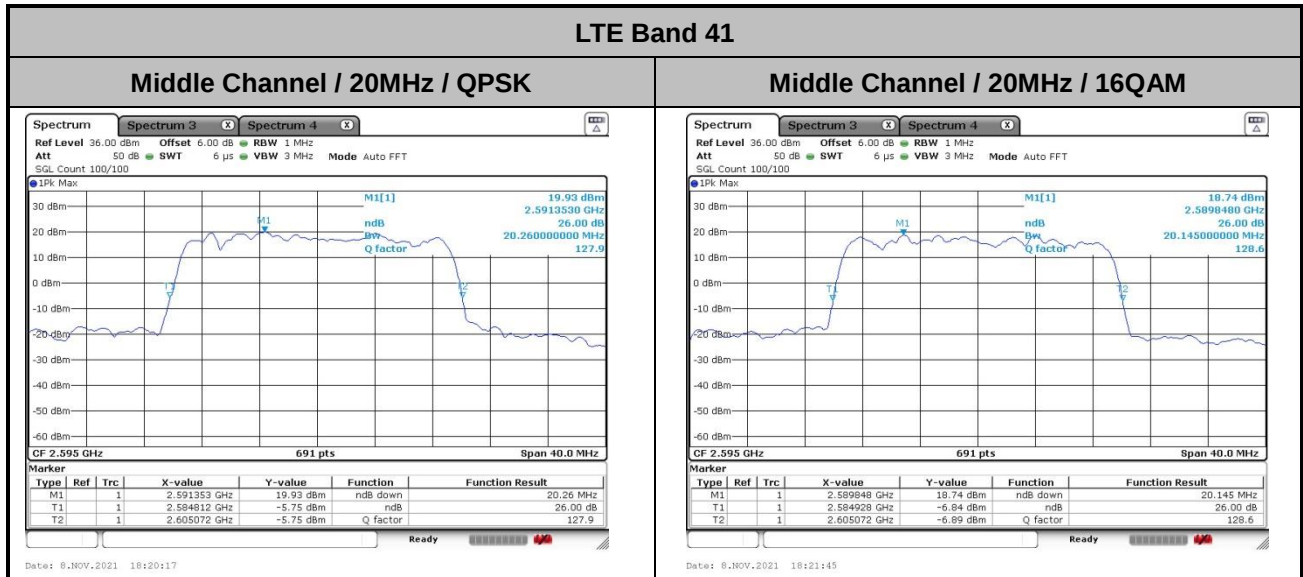


Middle Channel / Full RB / 64QAM



**26dB Bandwidth**

Mode	LTE Band 41 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	20.26	20.15





Occupied Bandwidth

Mode	LTE Band 41 : 99%OBW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.30	18.50

