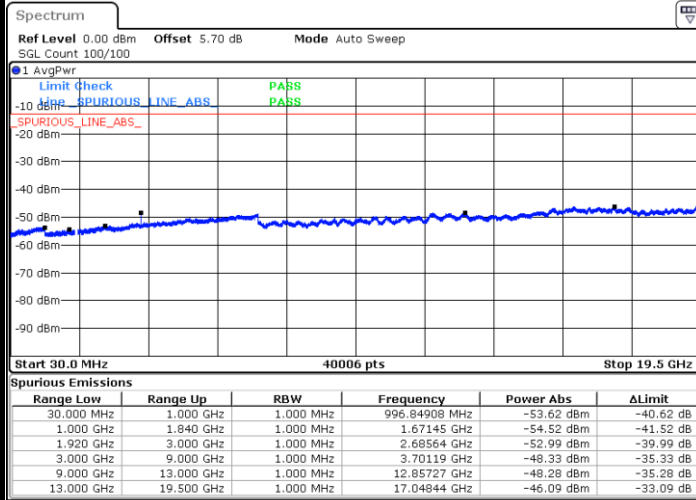




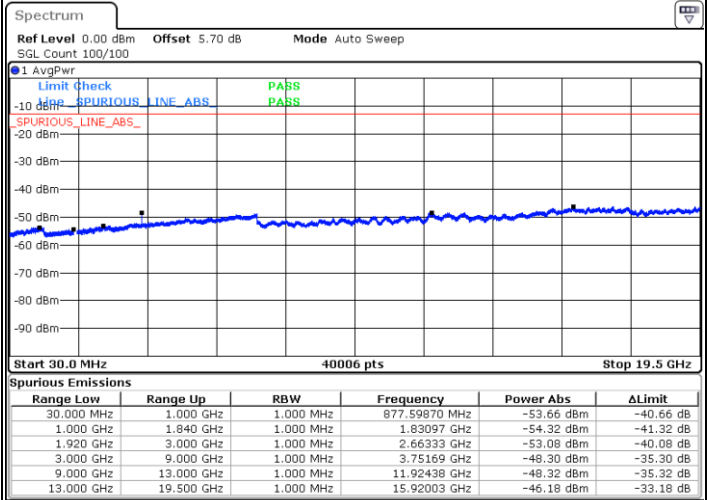
LTE Band 2 / 10MHz

Lowest Channel / QPSK



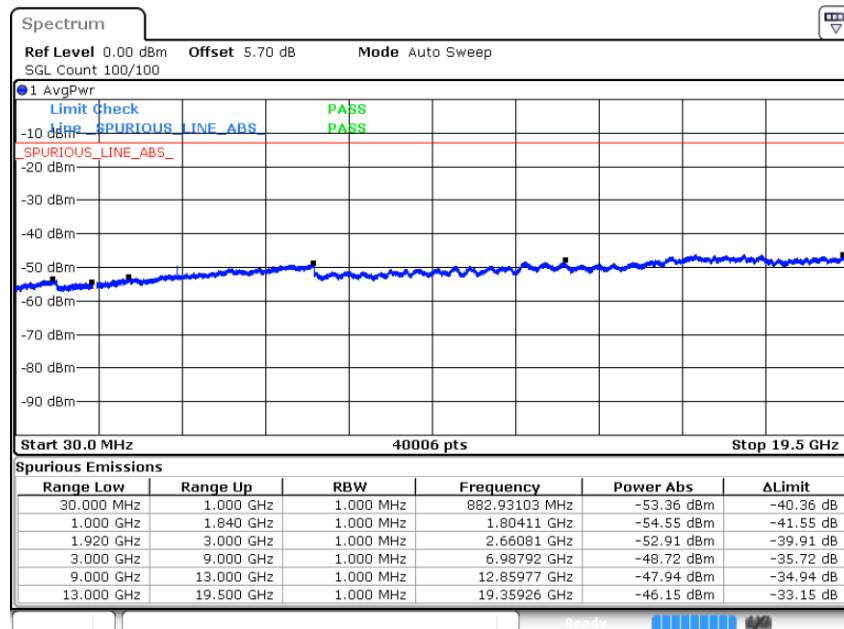
Date: 21 APR 2021 16:48:47

Middle Channel / QPSK



Date: 21 APR 2021 16:48:05

Highest Channel / QPSK

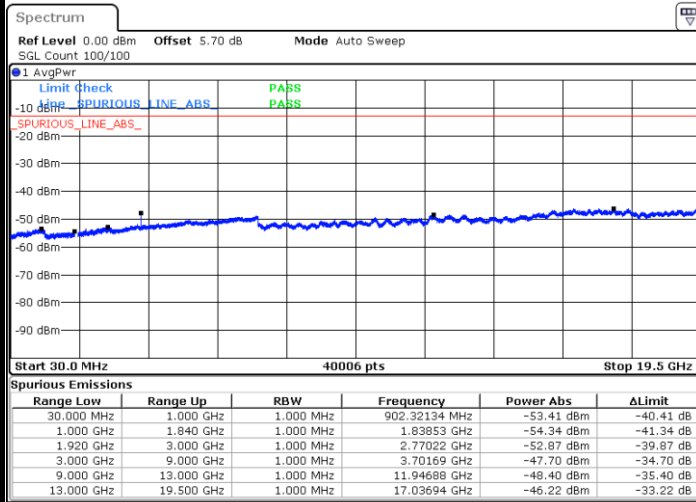


Date: 21 APR 2021 16:51:52



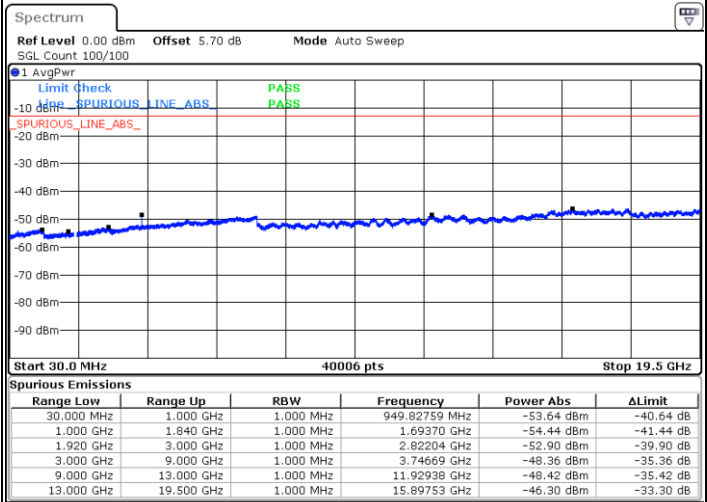
LTE Band 2 / 15MHz

Lowest Channel / QPSK



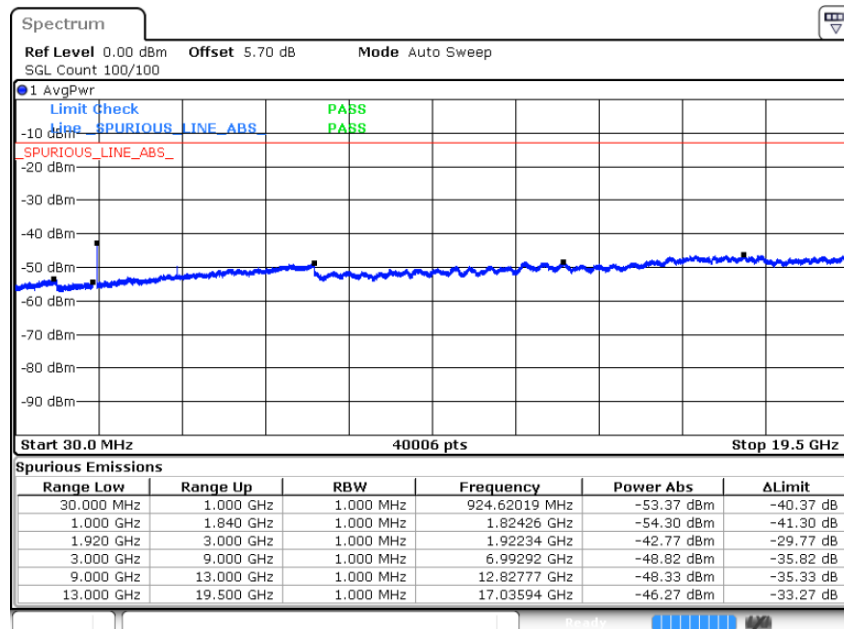
Date: 21 APR 2021 16:42:44

Middle Channel / QPSK



Date: 21 APR 2021 16:42:00

Highest Channel / QPSK

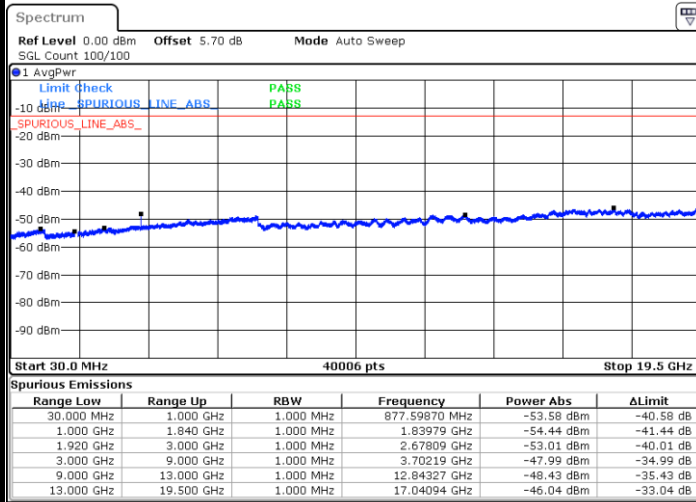


Date: 21 APR 2021 16:45:33



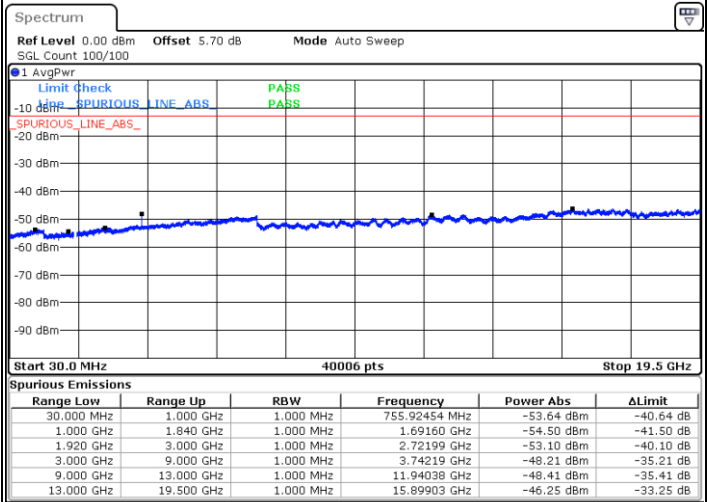
LTE Band 2 / 20MHz

Lowest Channel / QPSK



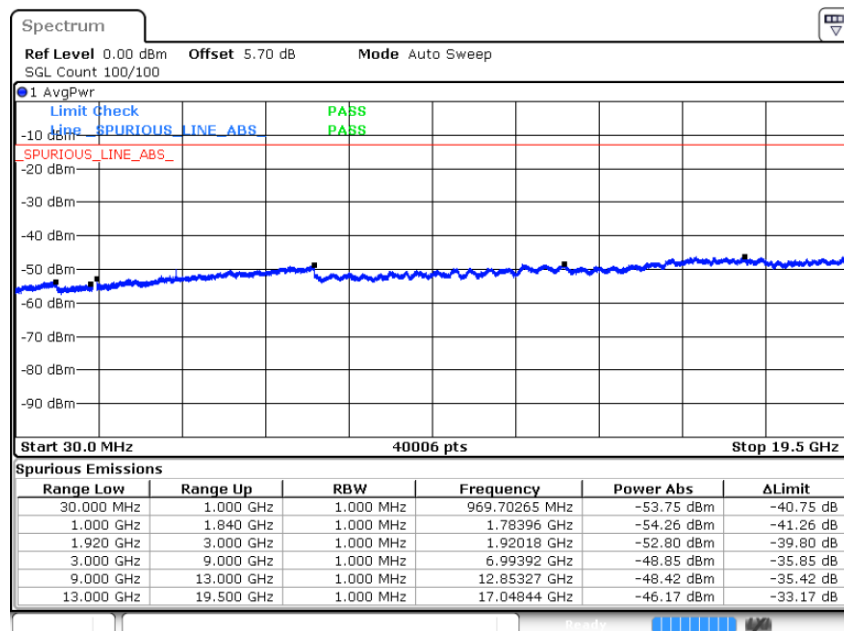
Date: 21 APR 2021 16:41:11

Middle Channel / QPSK



Date: 21 APR 2021 16:30:20

Highest Channel / QPSK



Date: 21 APR 2021 16:38:02

**Frequency Stability**

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0005	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0002	
-10	Normal Voltage	0.0016	
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0018	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0012	
20	Battery End Point	0.0001	

Note:

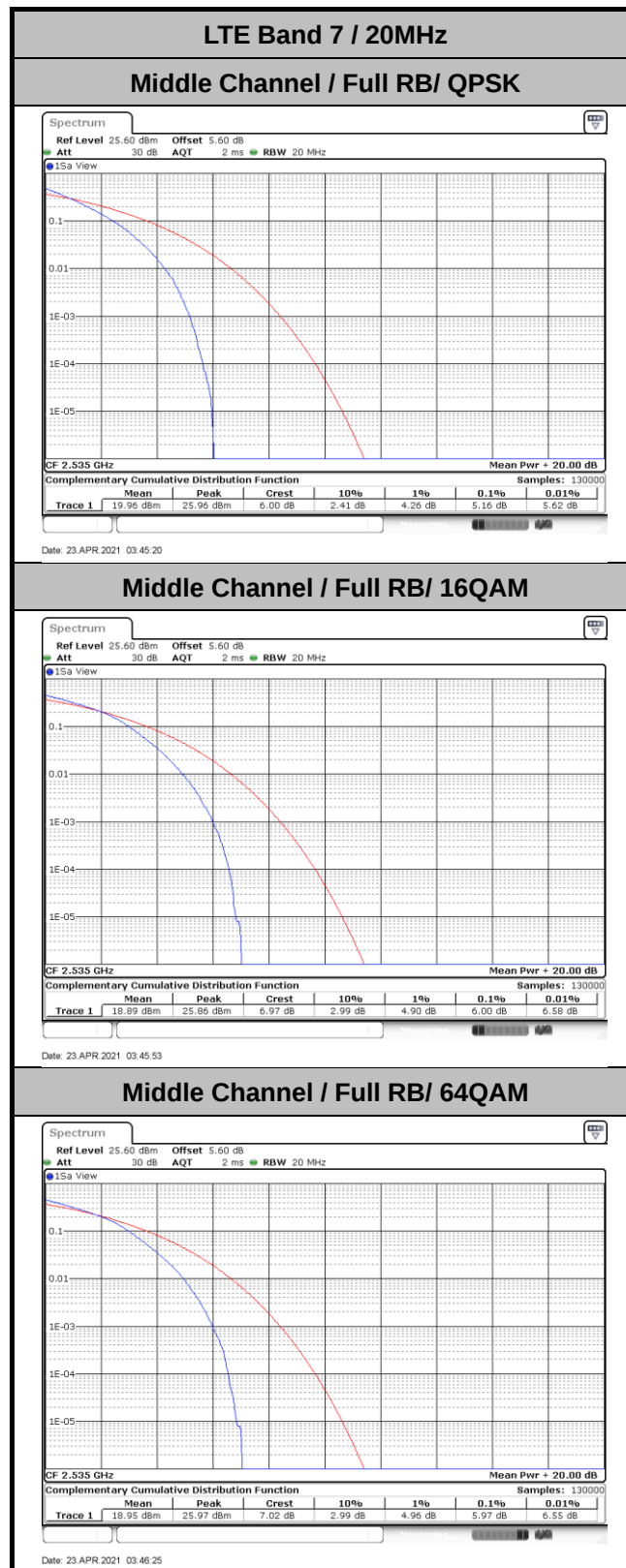
1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 7

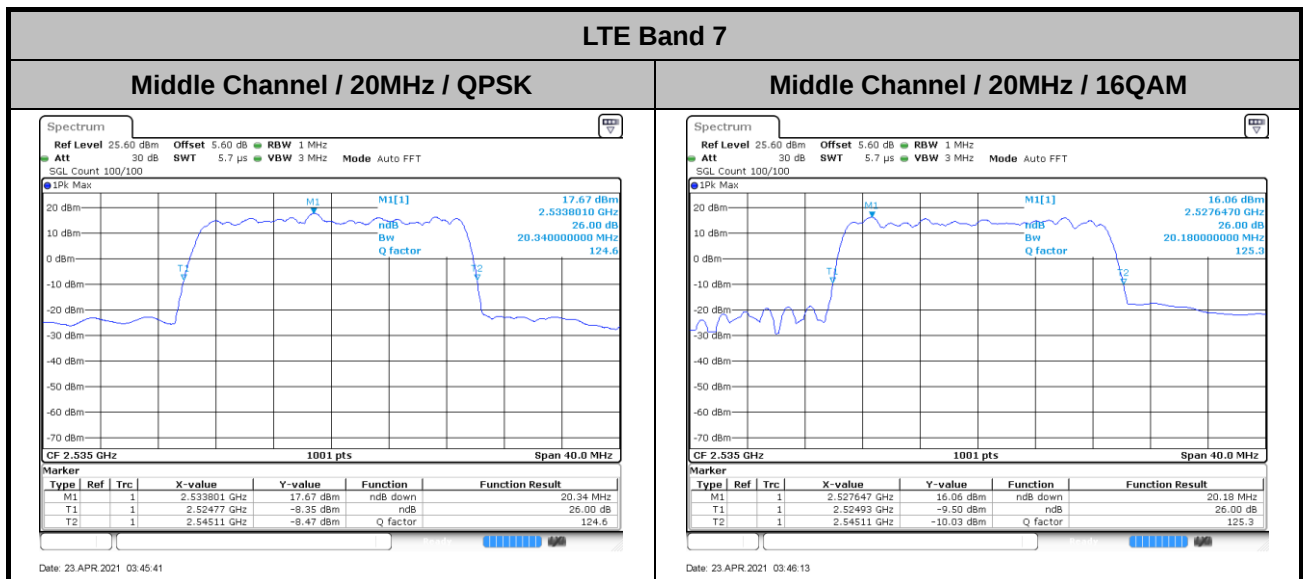
Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.16	6.00	5.97	PASS



**26dB Bandwidth**

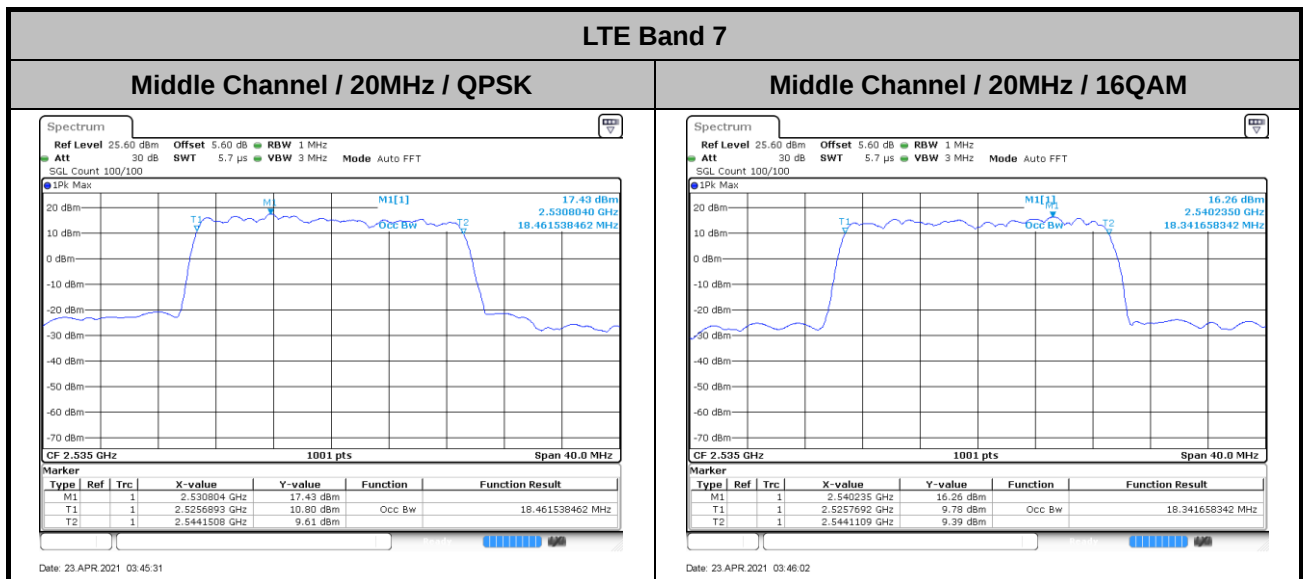
Mode	LTE Band 7 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	20.34	20.18





Occupied Bandwidth

Mode	LTE Band 7 : 99%OBW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.46	18.34

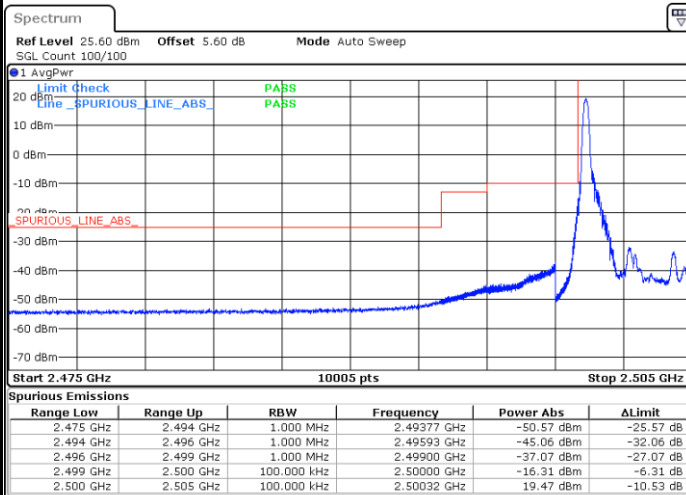




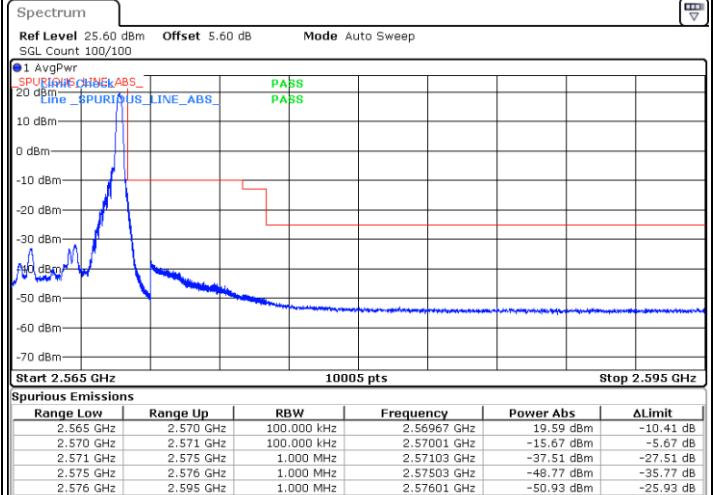
Conducted Band Edge

LTE Band 7 / 5MHz / QPSK

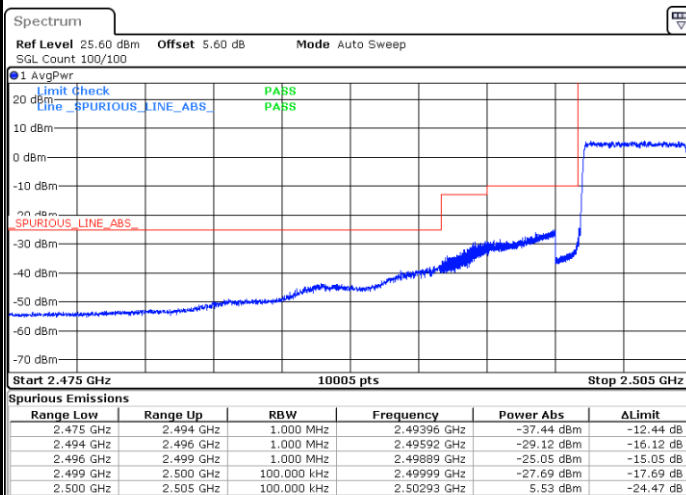
Lowest Band Edge / 1 RB



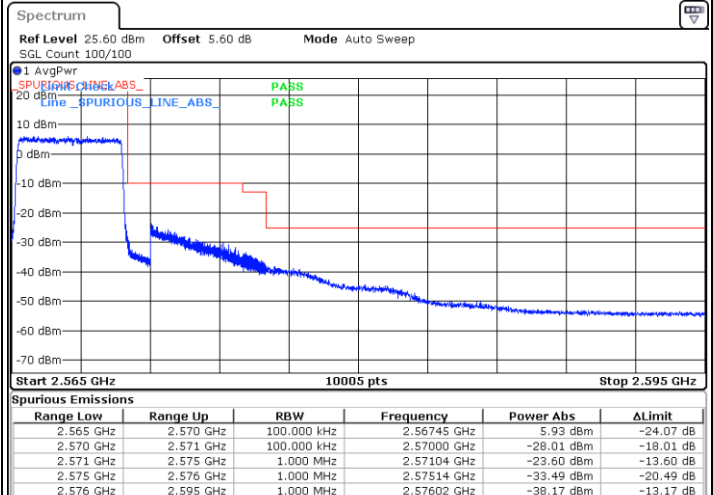
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



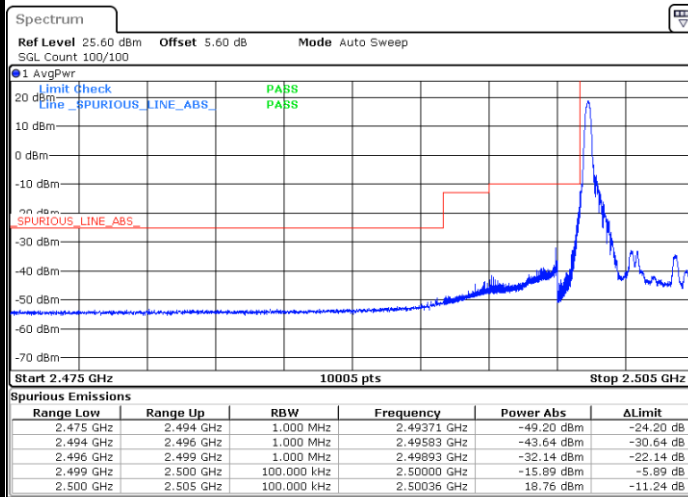
Highest Band Edge / Full RB



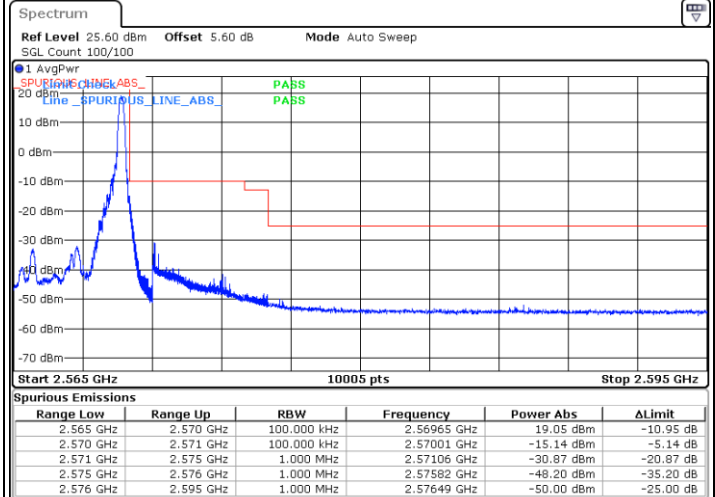


LTE Band 7 / 5MHz / 16QAM

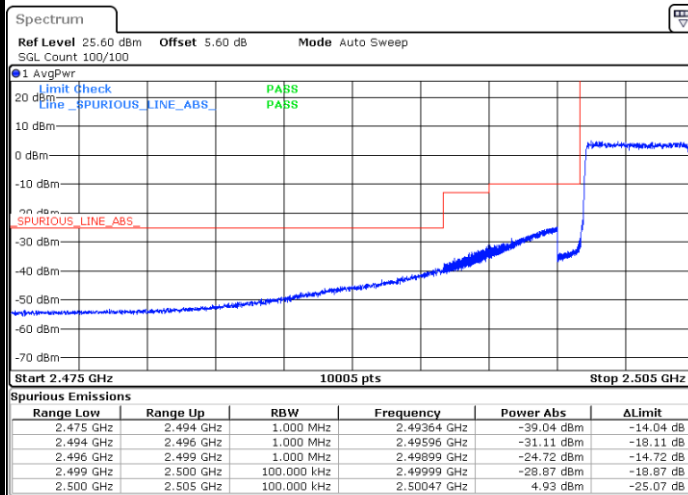
Lowest Band Edge / 1RB



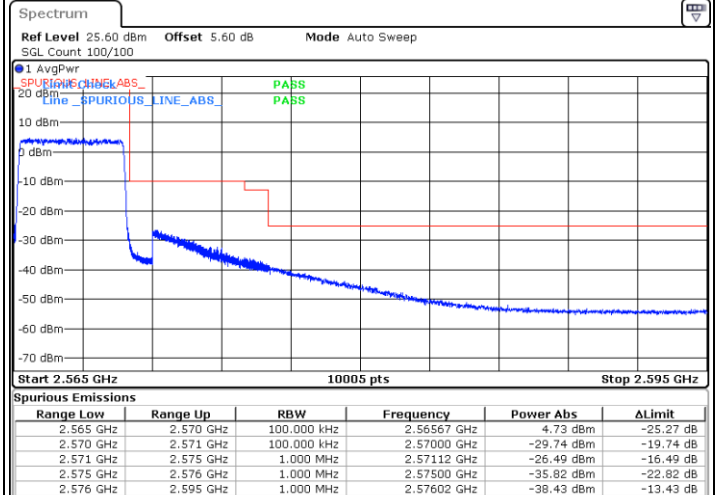
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



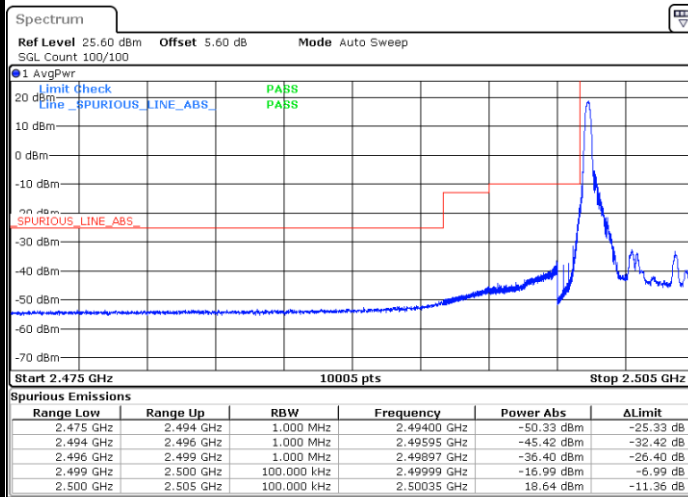
Highest Band Edge / Full RB



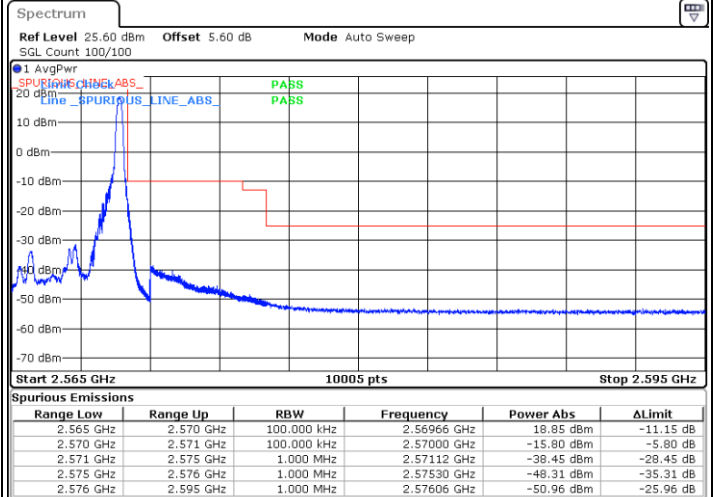


LTE Band 7 / 5MHz / 64QAM

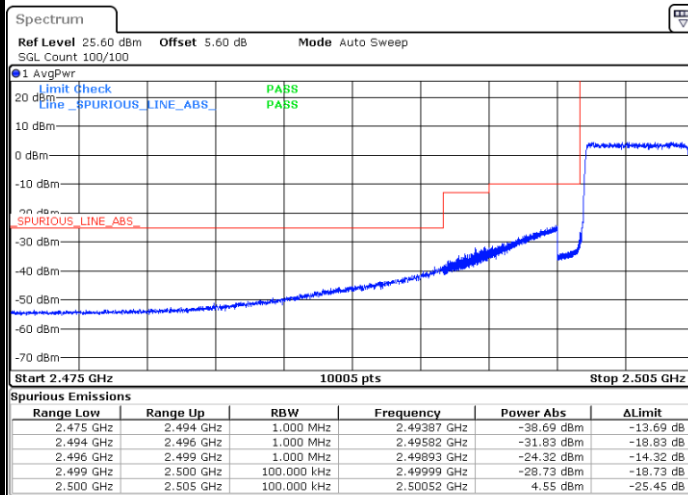
Lowest Band Edge / 1RB



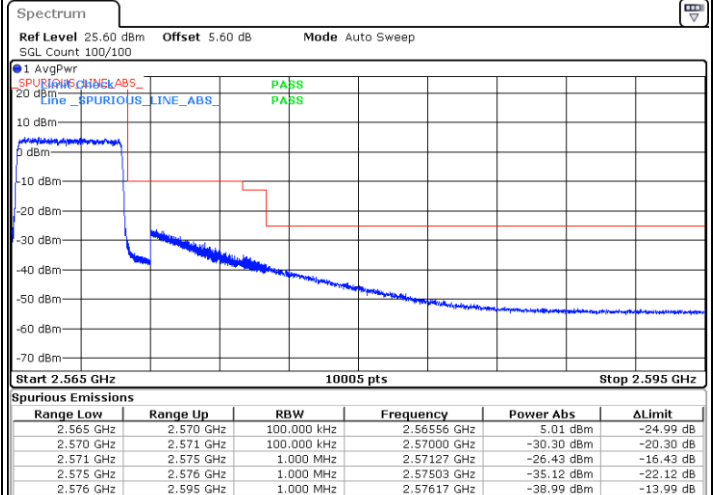
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



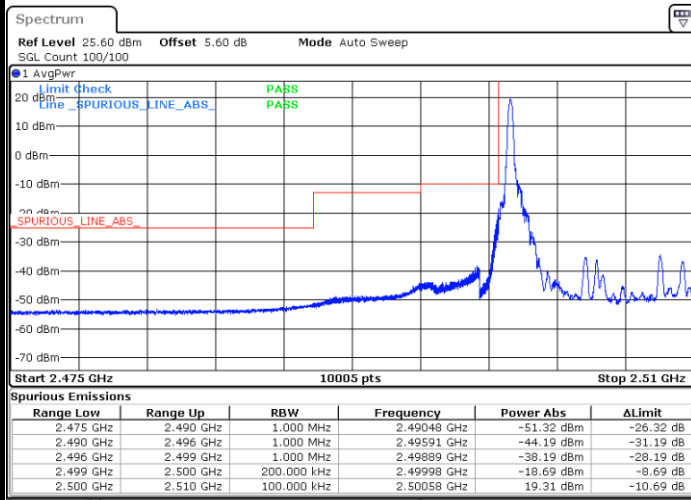
Highest Band Edge / Full RB



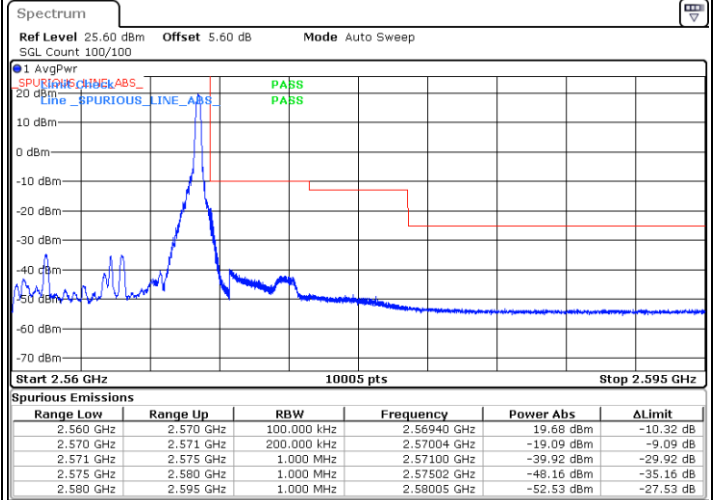


LTE Band 7 / 10MHz / QPSK

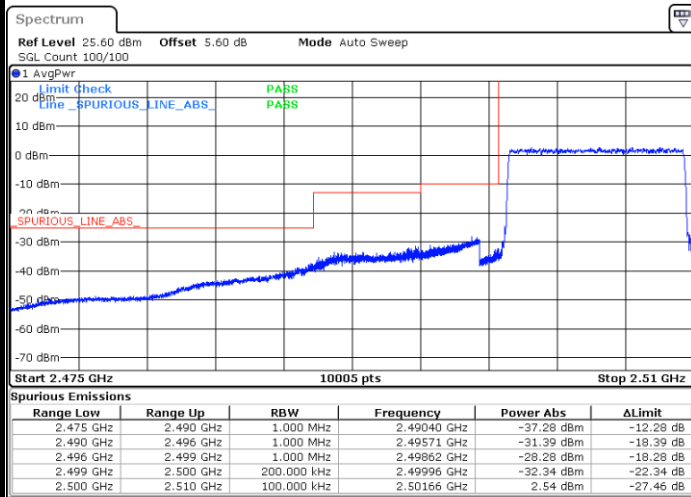
Lowest Band Edge / 1 RB



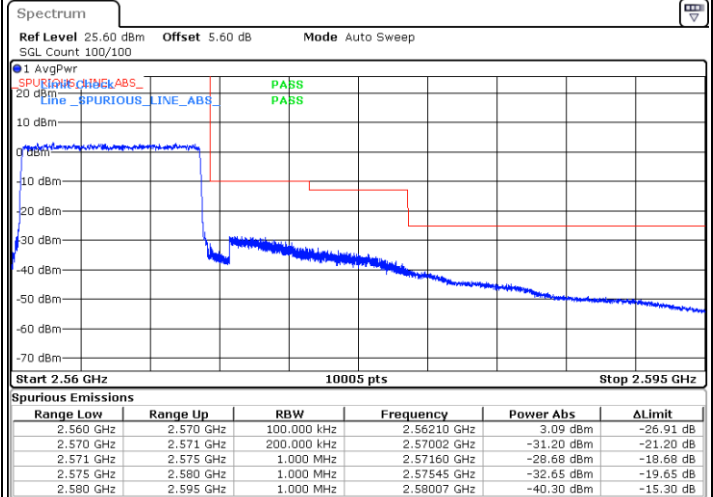
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



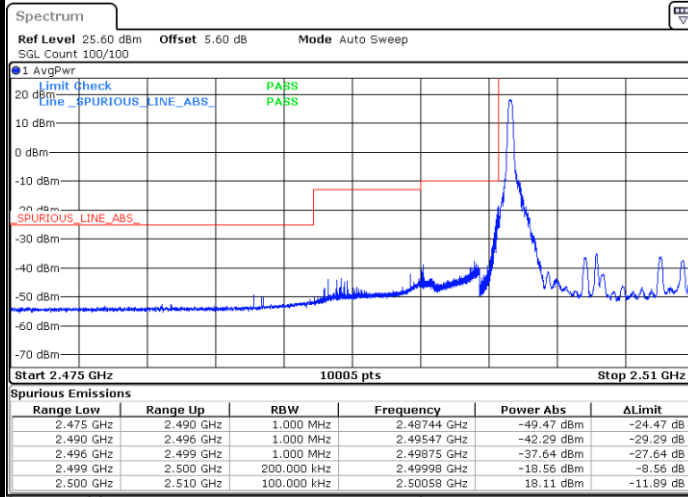
Highest Band Edge / Full RB



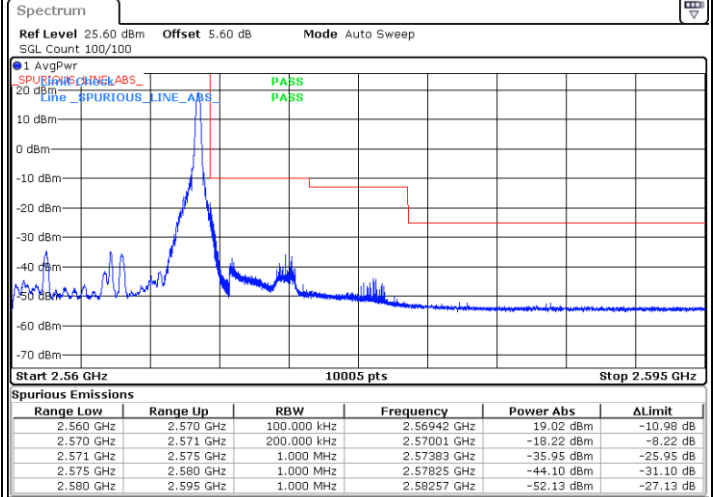


LTE Band 7 / 10MHz / 16QAM

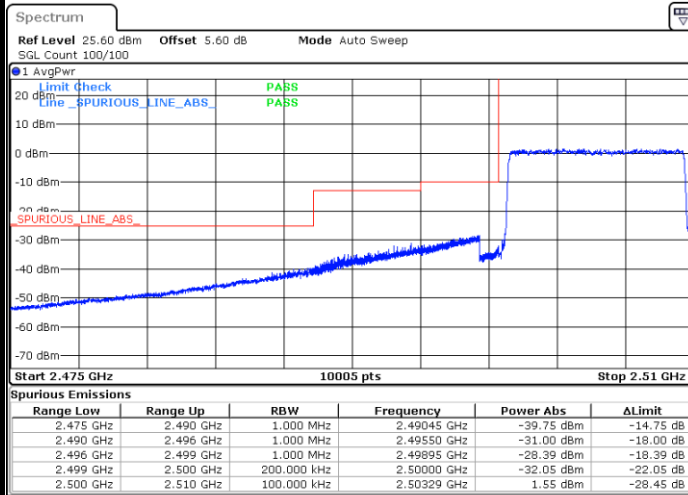
Lowest Band Edge / 1 RB



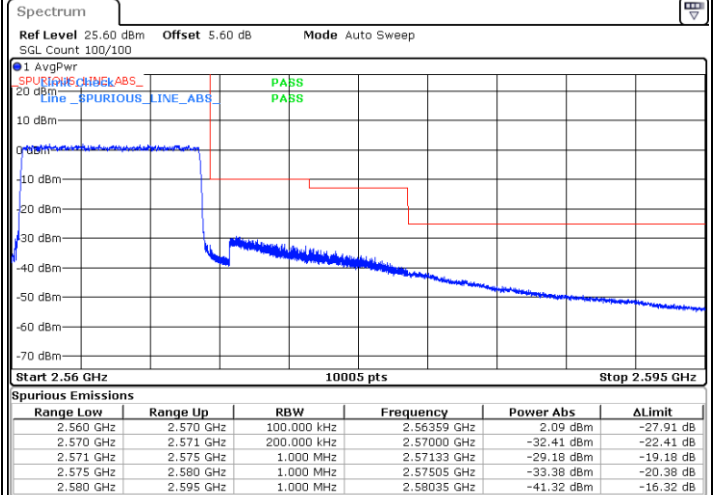
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



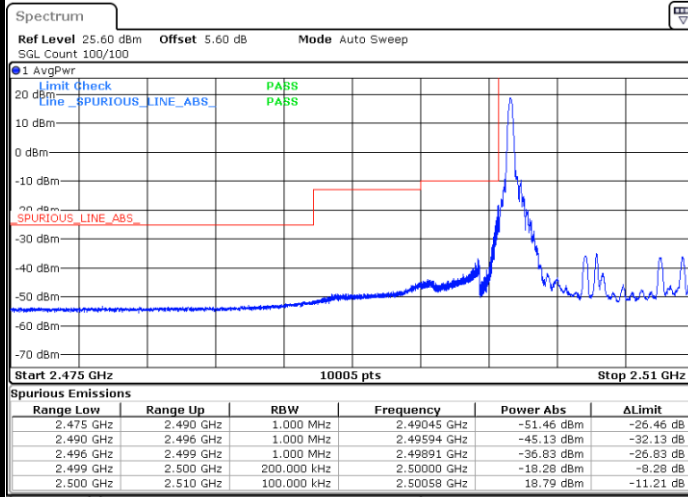
Highest Band Edge / Full RB



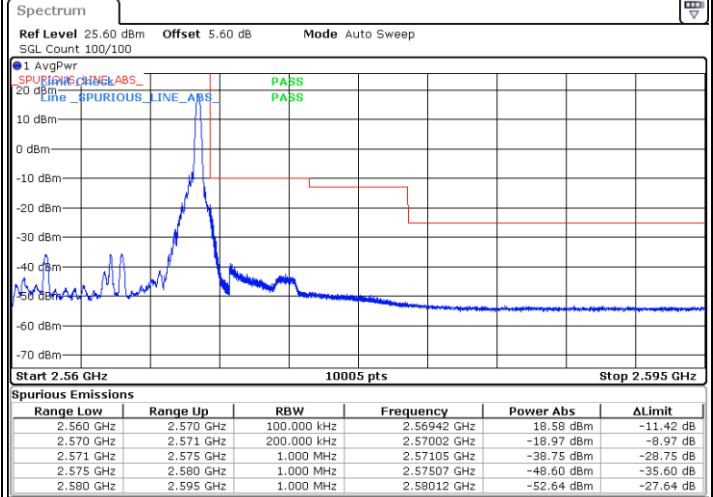


LTE Band 7 / 10MHz / 64QAM

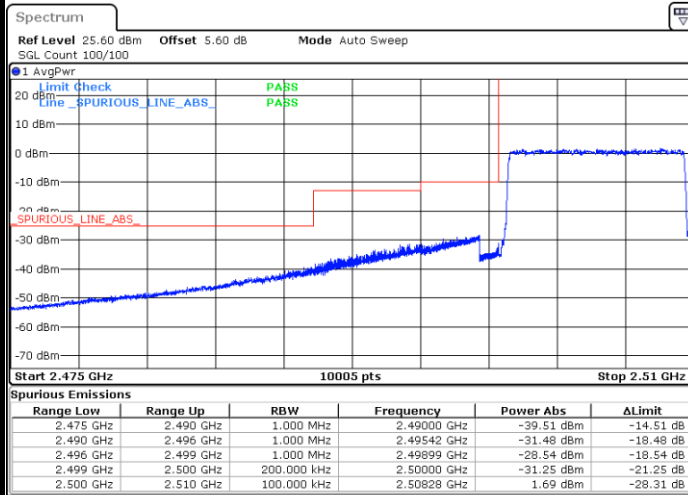
Lowest Band Edge / 1 RB



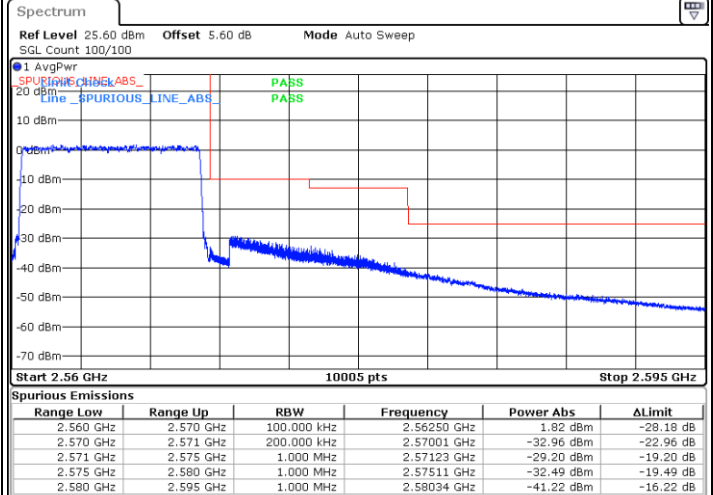
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



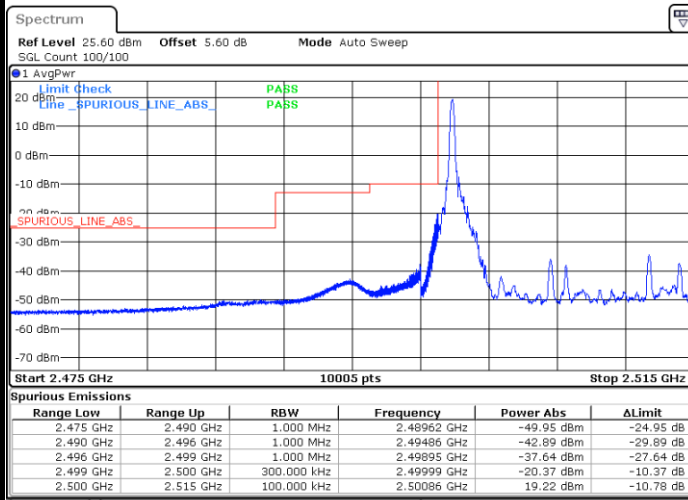
Highest Band Edge / Full RB





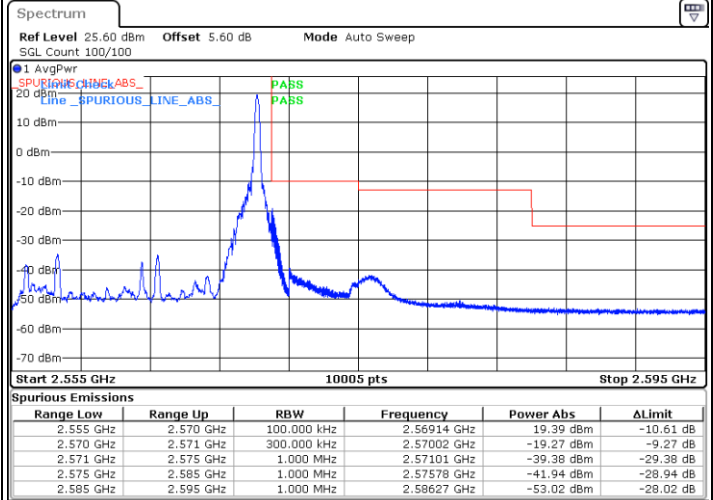
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB



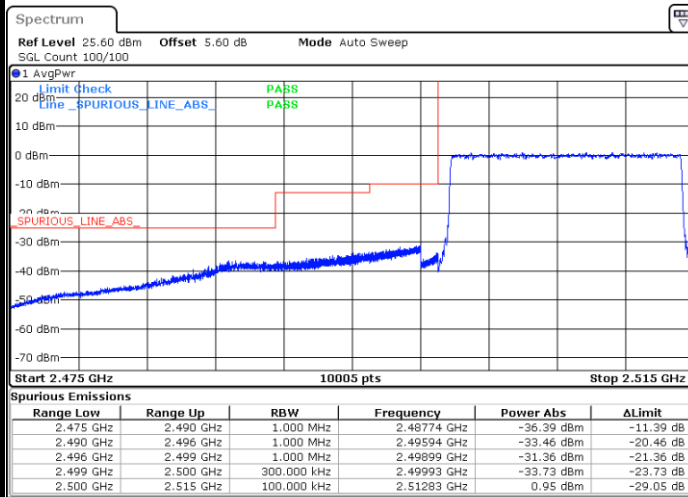
Date: 23 APR 2021 03:34:50

Highest Band Edge / 1 RB



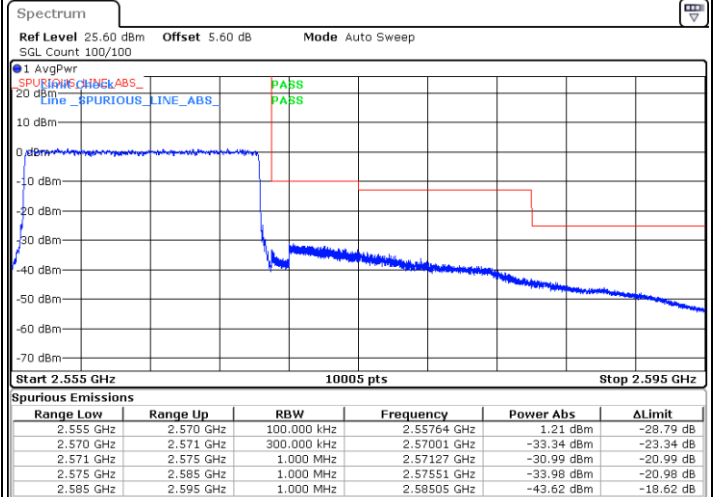
Date: 23 APR 2021 03:39:57

Lowest Band Edge / Full RB



Date: 23 APR 2021 03:36:57

Highest Band Edge / Full RB

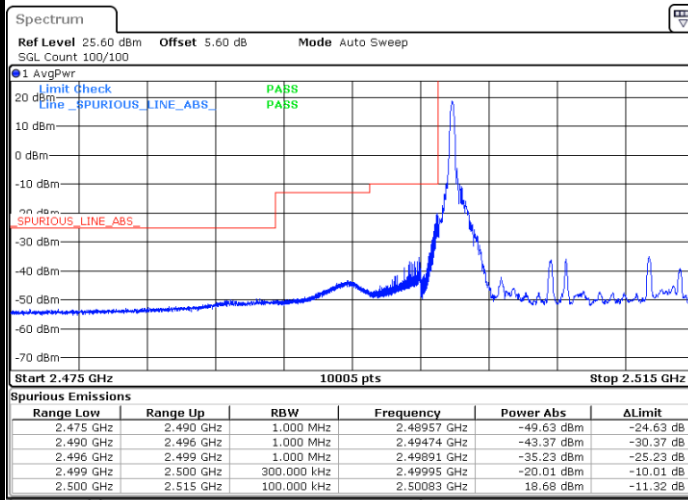


Date: 23 APR 2021 03:41:28



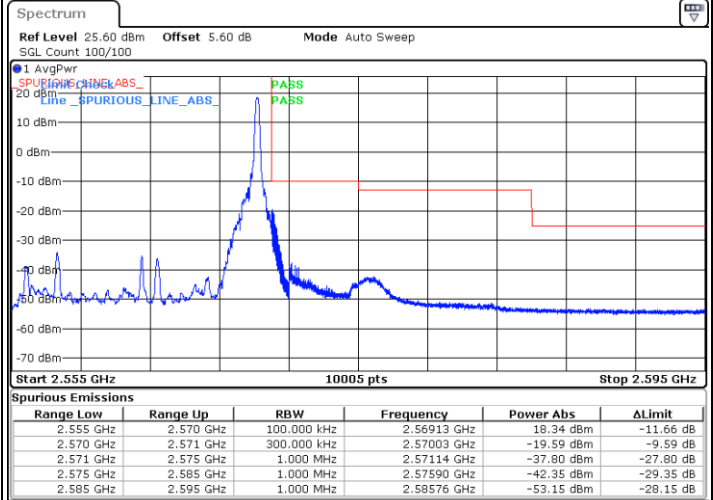
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



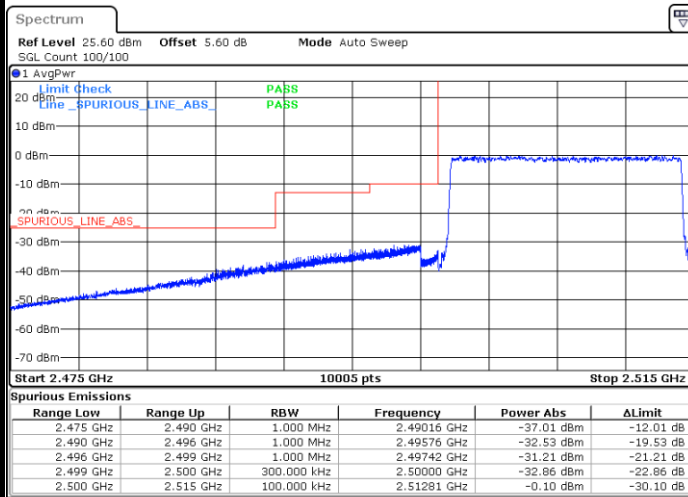
Date: 23 APR 2021 03:35:52

Highest Band Edge / 1 RB



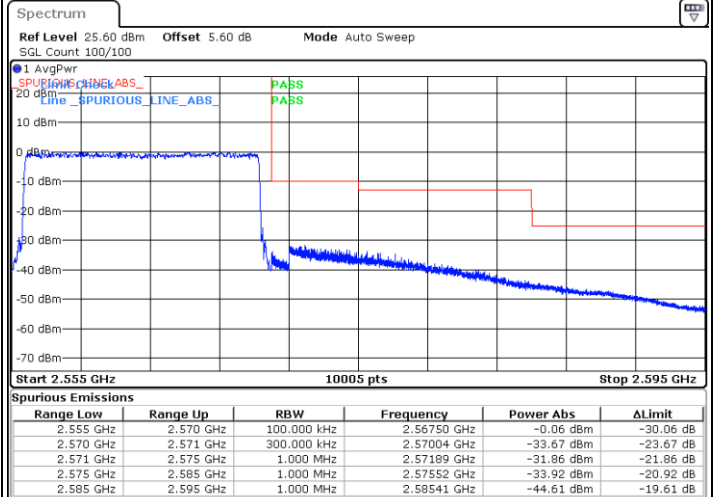
Date: 23 APR 2021 03:40:19

Lowest Band Edge / Full RB



Date: 23 APR 2021 03:36:43

Highest Band Edge / Full RB

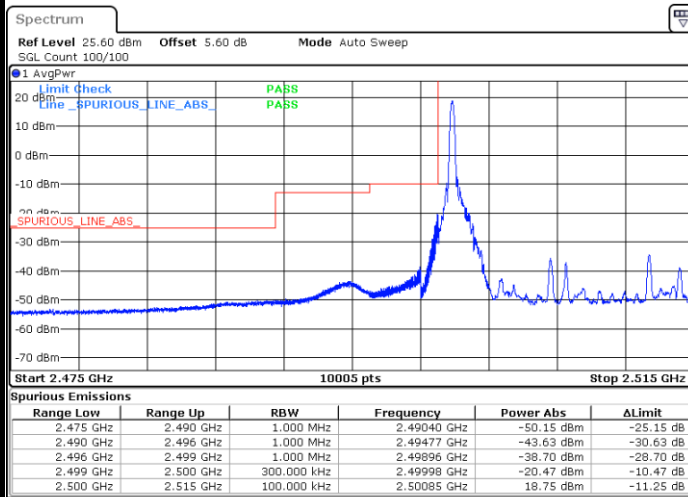


Date: 23 APR 2021 03:41:11



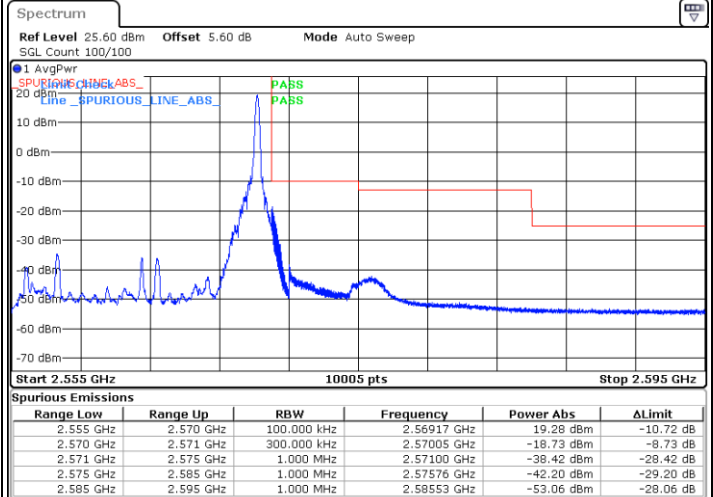
LTE Band 7 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



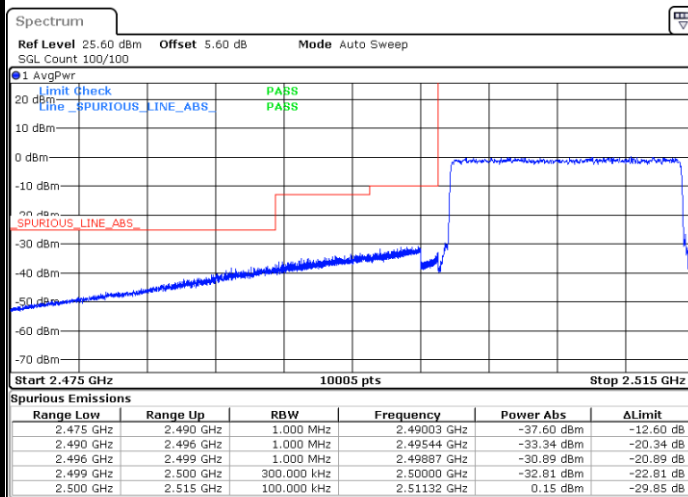
Date: 23 APR 2021 03:36:07

Highest Band Edge / 1 RB



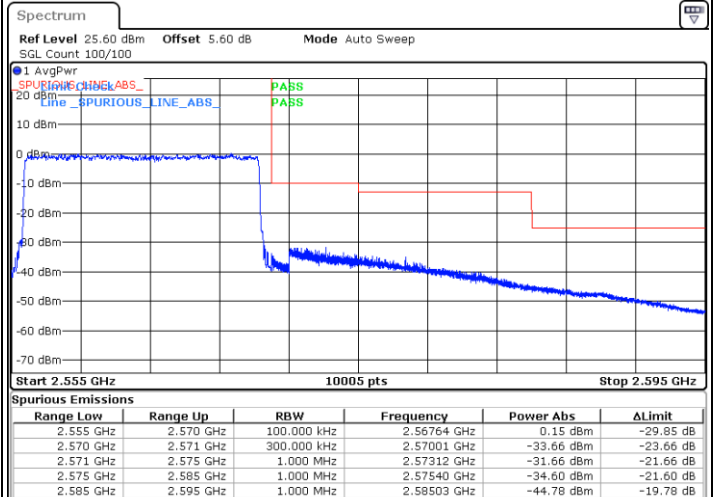
Date: 23 APR 2021 03:40:38

Lowest Band Edge / Full RB



Date: 23 APR 2021 03:36:26

Highest Band Edge / Full RB

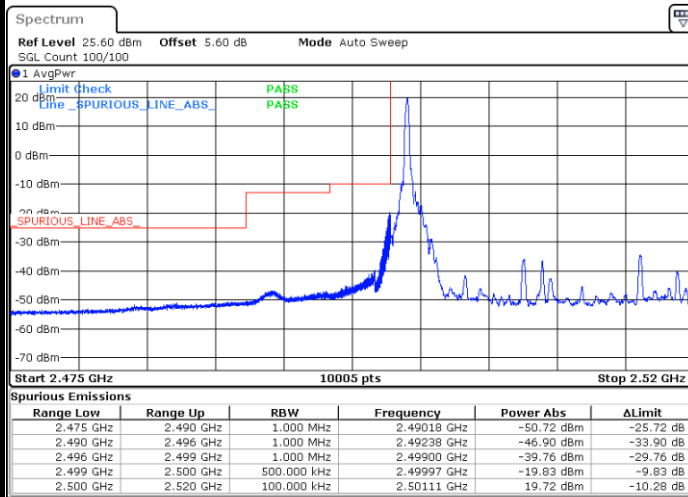


Date: 23 APR 2021 03:40:56

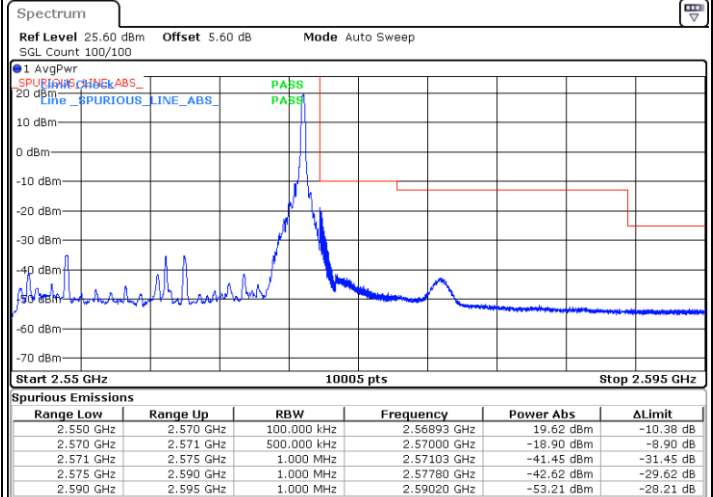


LTE Band 7 / 20MHz / QPSK

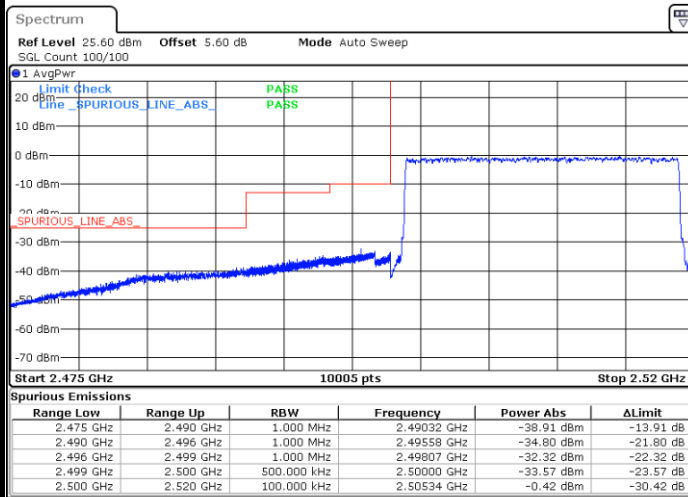
Lowest Band Edge / 1 RB



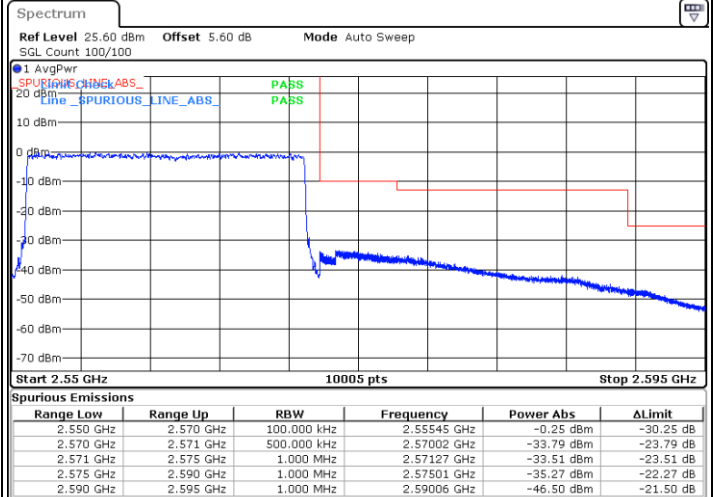
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



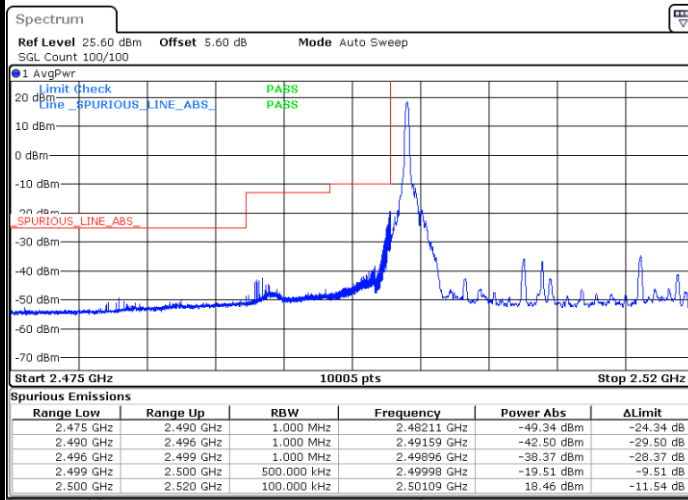
Highest Band Edge / Full RB



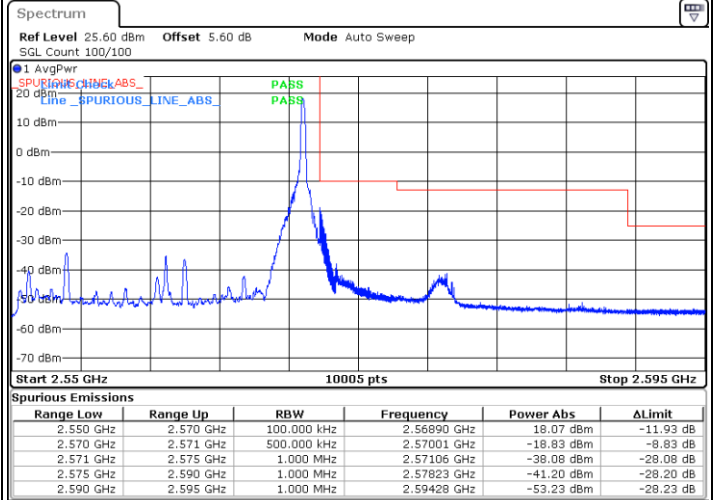


LTE Band 7 / 20MHz / 16QAM

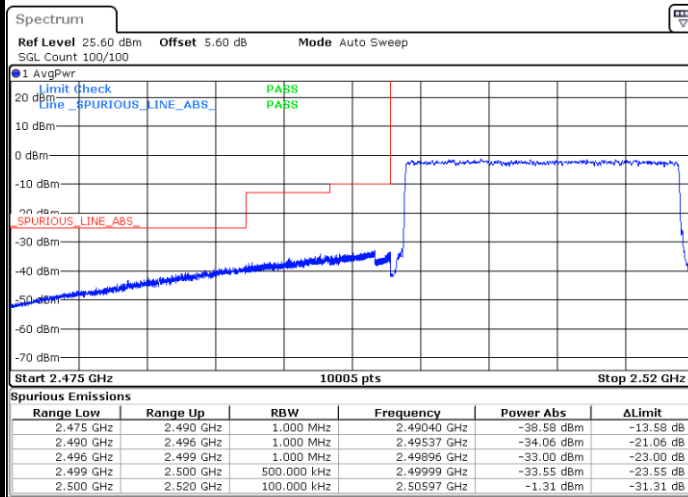
Lowest Band Edge / 1 RB



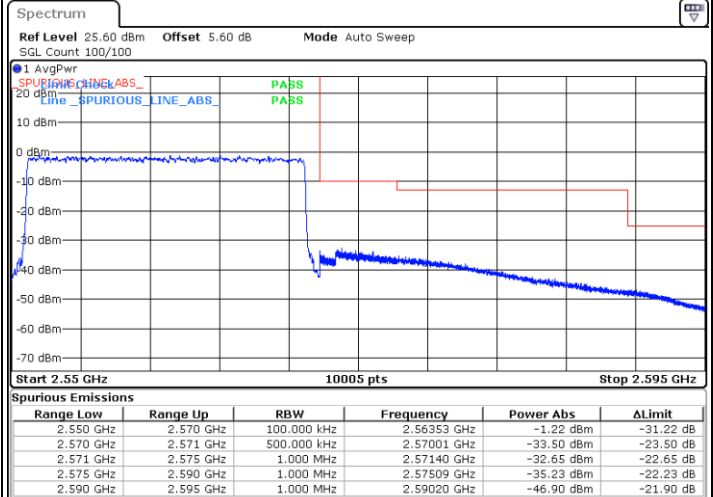
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



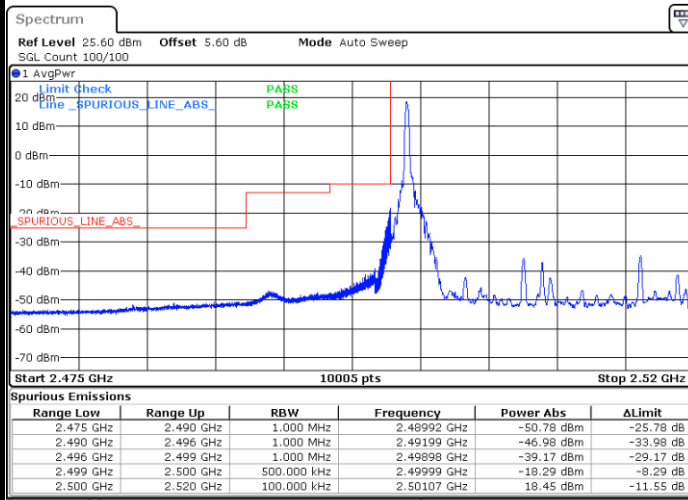
Highest Band Edge / Full RB



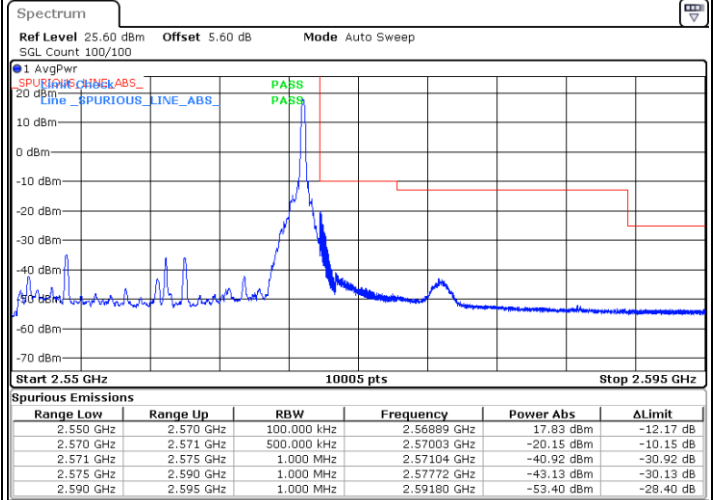


LTE Band 7 / 20MHz / 64QAM

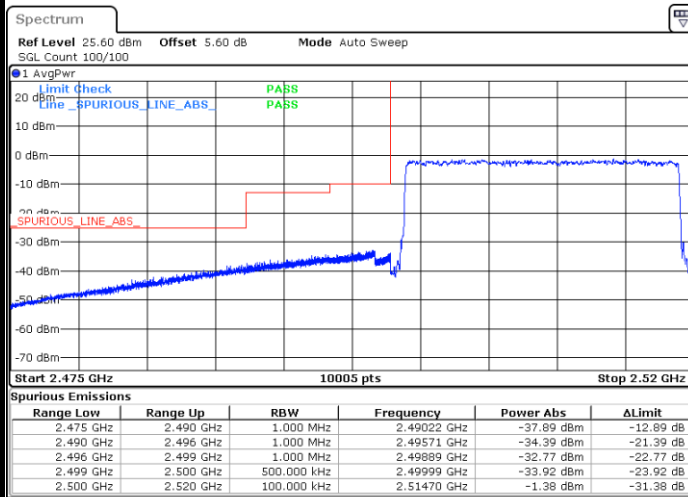
Lowest Band Edge / 1 RB



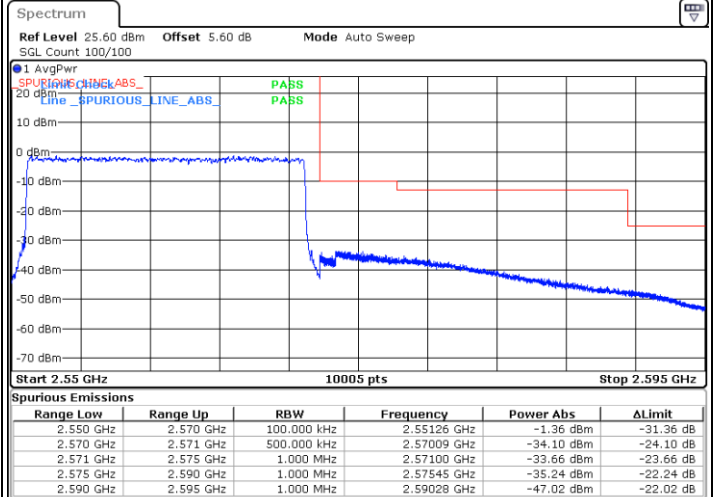
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

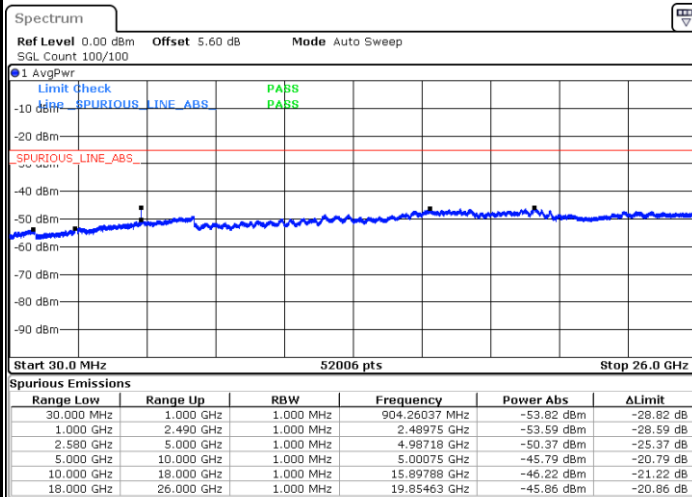




Conducted Spurious Emission

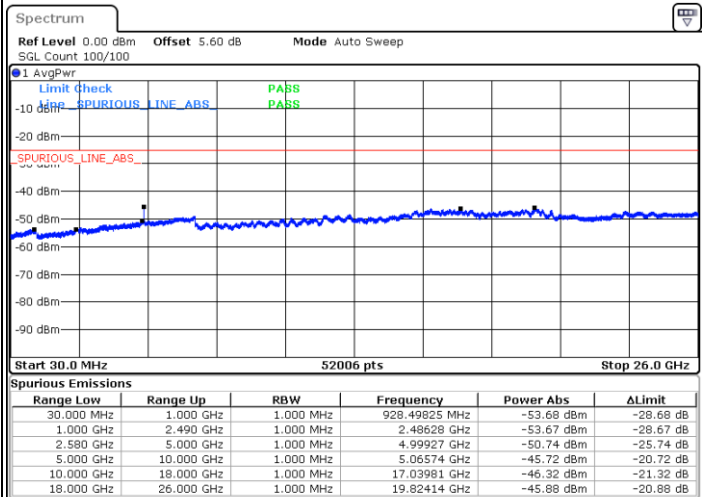
LTE Band 7 / 5MHz

Lowest Channel / QPSK



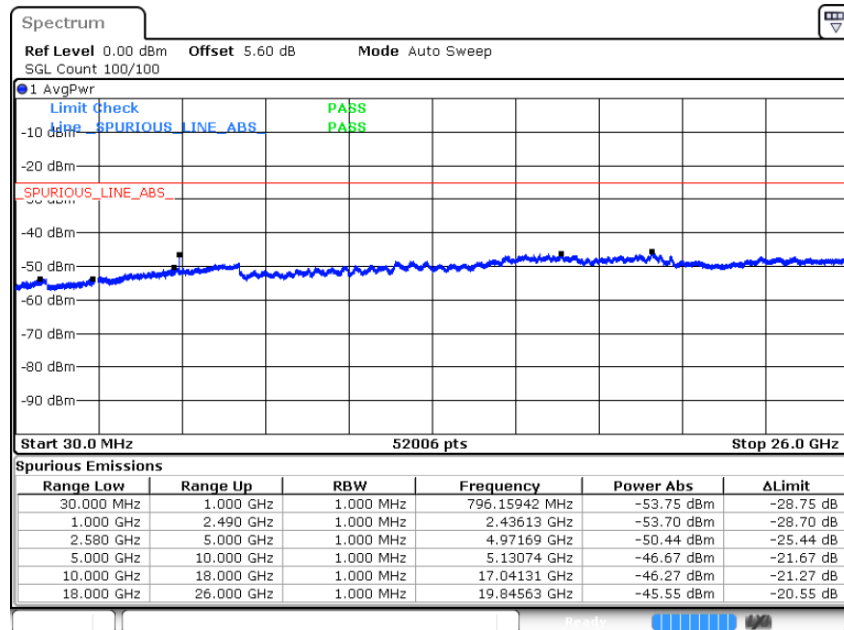
Date: 23 APR 2021 03:01:13

Middle Channel / QPSK



Date: 23 APR 2021 03:04:36

Highest Channel / QPSK

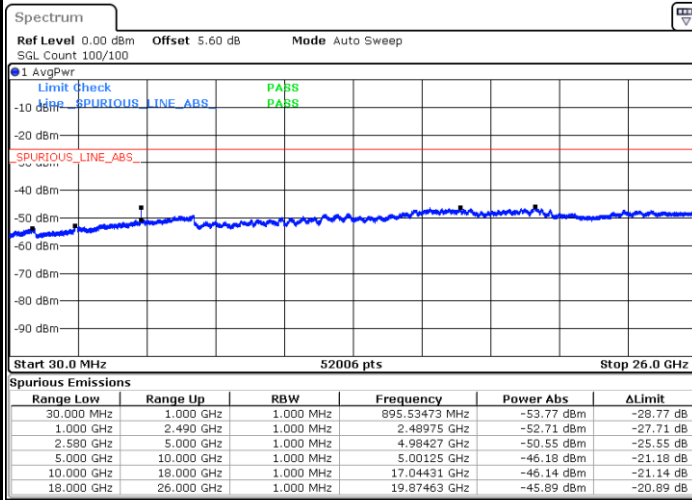


Date: 23 APR 2021 03:05:37



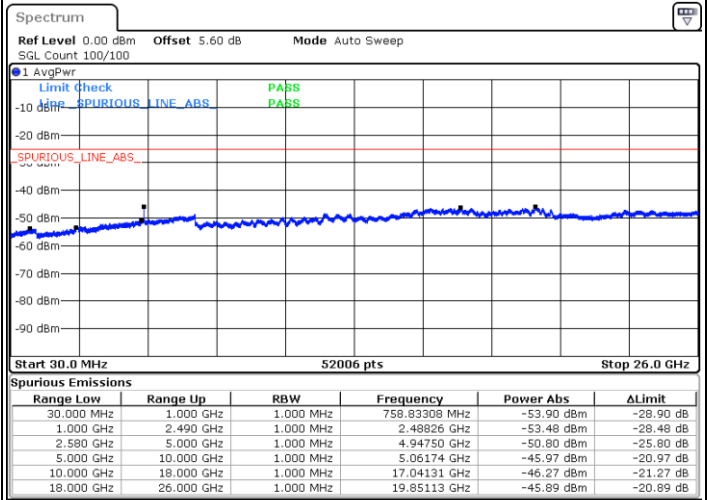
LTE Band 7 / 10MHz

Lowest Channel / QPSK



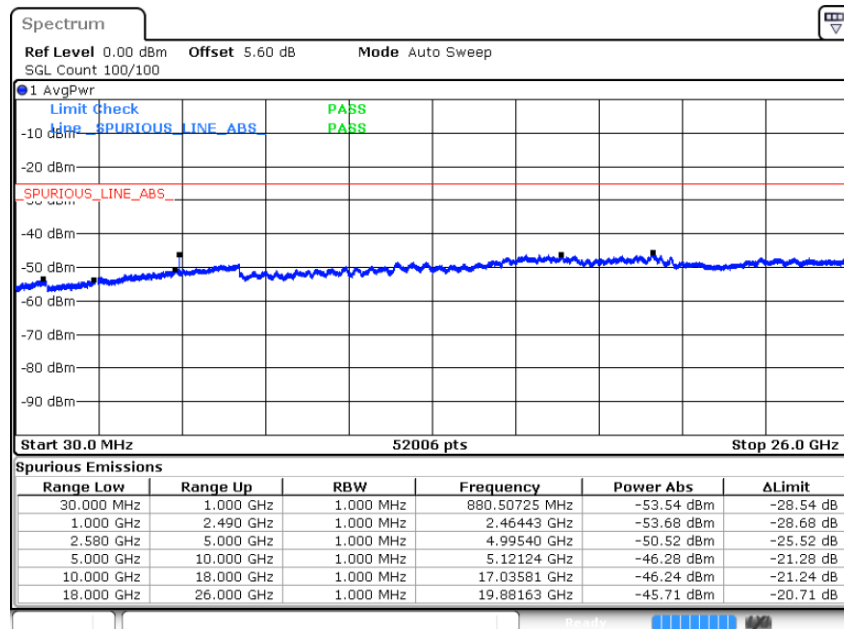
Date: 23 APR 2021 03:16:00

Middle Channel / QPSK



Date: 23 APR 2021 03:17:43

Highest Channel / QPSK

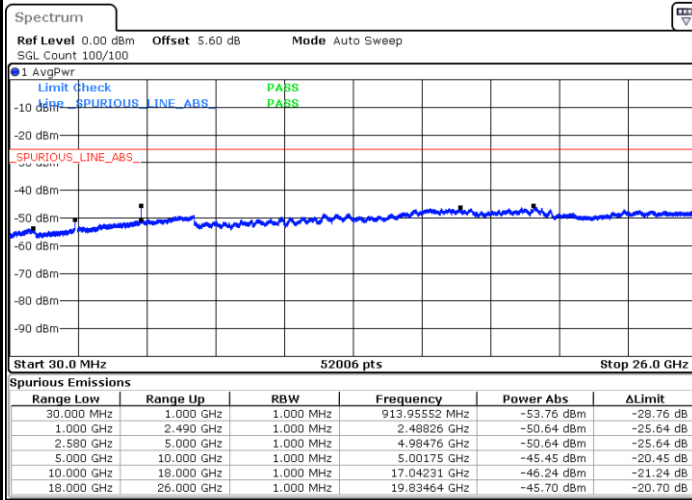


Date: 23 APR 2021 03:19:09



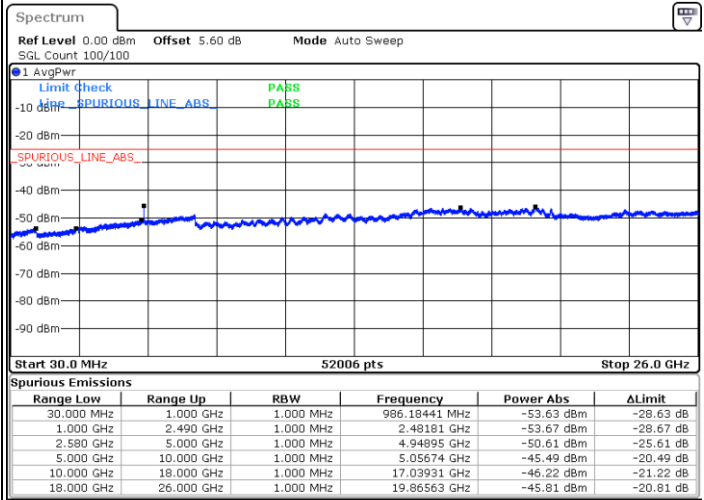
LTE Band 7 / 15MHz

Lowest Channel / QPSK



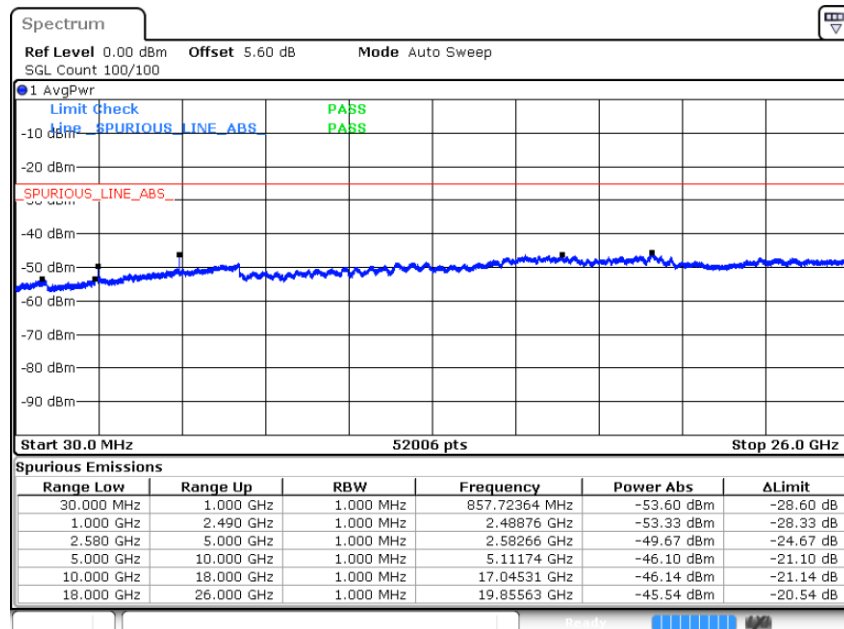
Date: 23 APR 2021 03:34:11

Middle Channel / QPSK



Date: 23 APR 2021 03:38:29

Highest Channel / QPSK

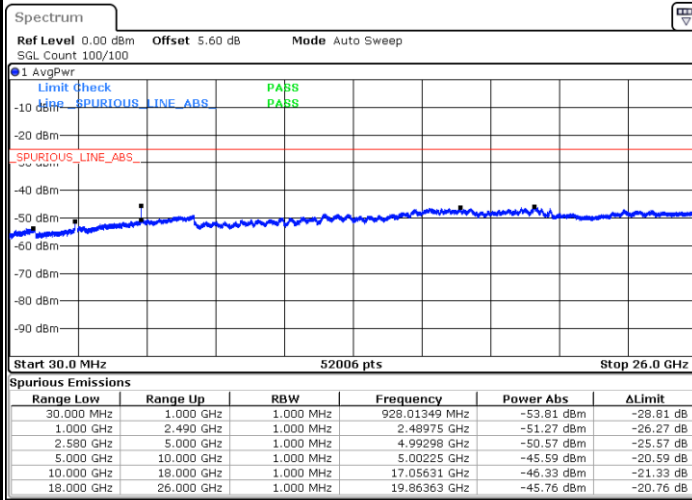


Date: 23 APR 2021 03:39:39



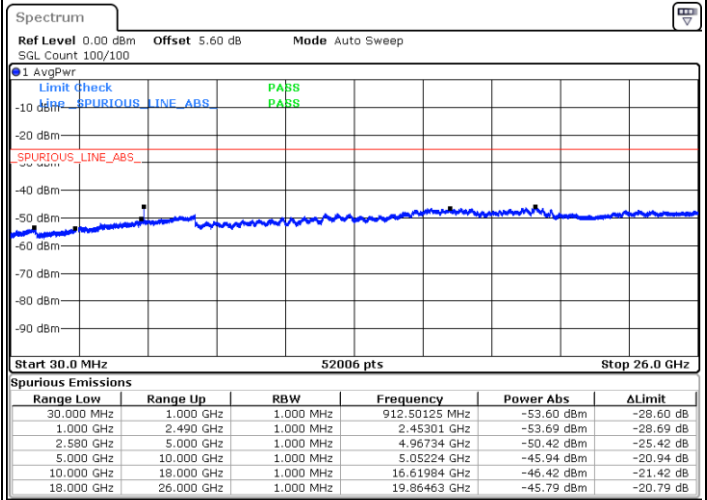
LTE Band 7 / 20MHz

Lowest Channel / QPSK



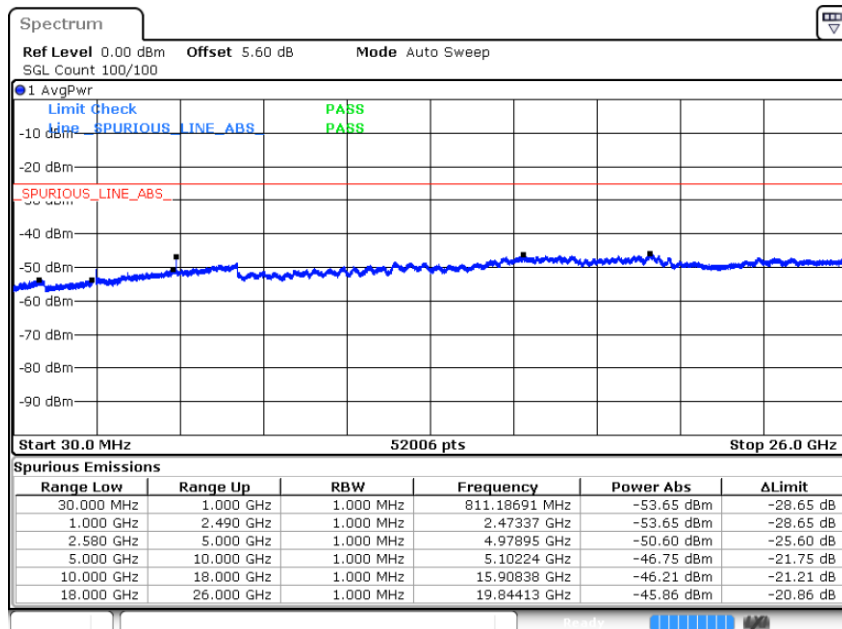
Date: 23 APR 2021 03:44:11

Middle Channel / QPSK



Date: 23 APR 2021 03:45:02

Highest Channel / QPSK



Date: 23 APR 2021 03:48:07

Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0021	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0000	
-10	Normal Voltage	0.0008	
-20	Normal Voltage	0.0046	
-30	Normal Voltage	0.0025	
20	Maximum Voltage	0.0008	
20	Normal Voltage	0.0060	
20	Battery End Point	0.0072	

Note:

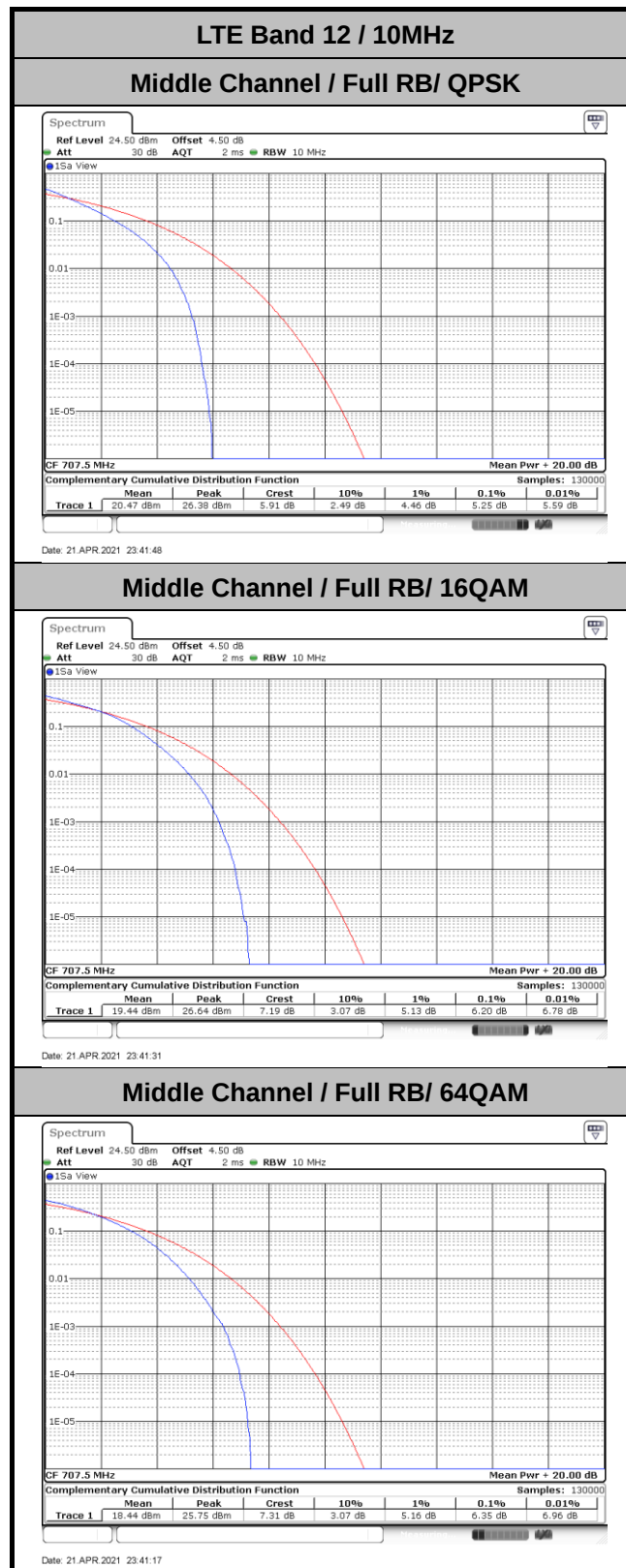
1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 12

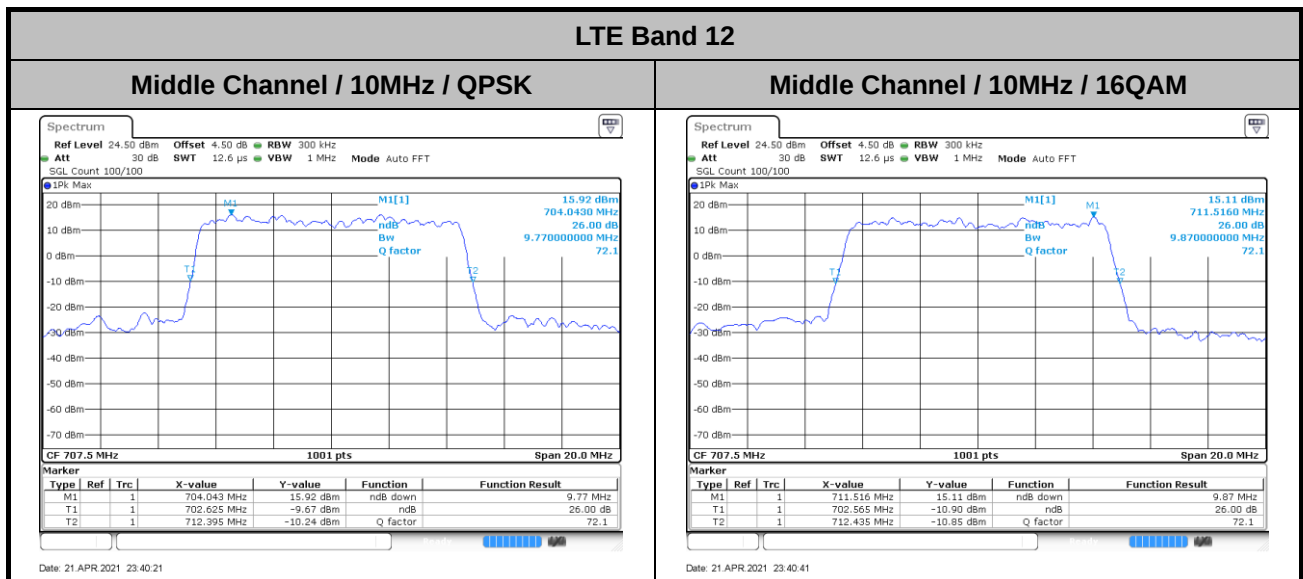
Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.25	6.20	6.35	PASS



**26dB Bandwidth**

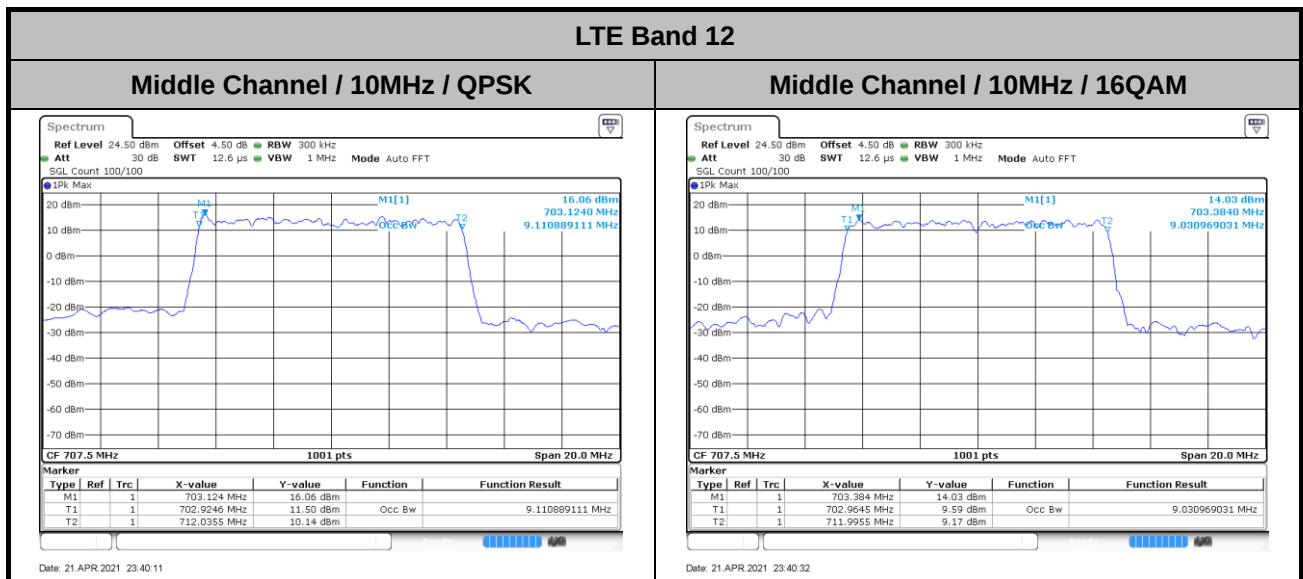
Mode	LTE Band 12 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.77	9.87





Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.11	9.03

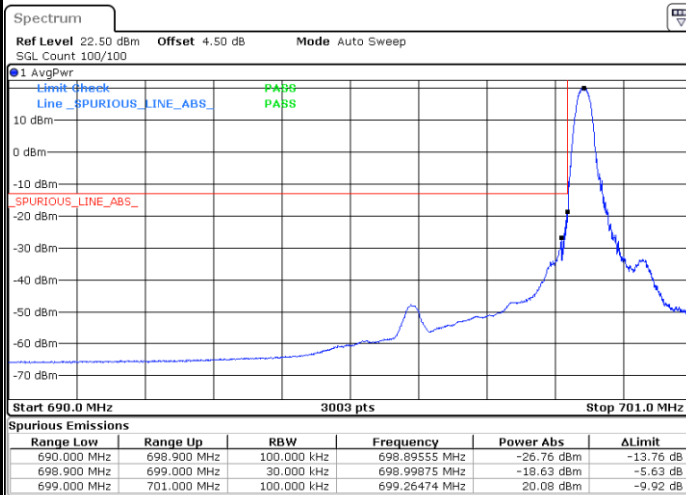




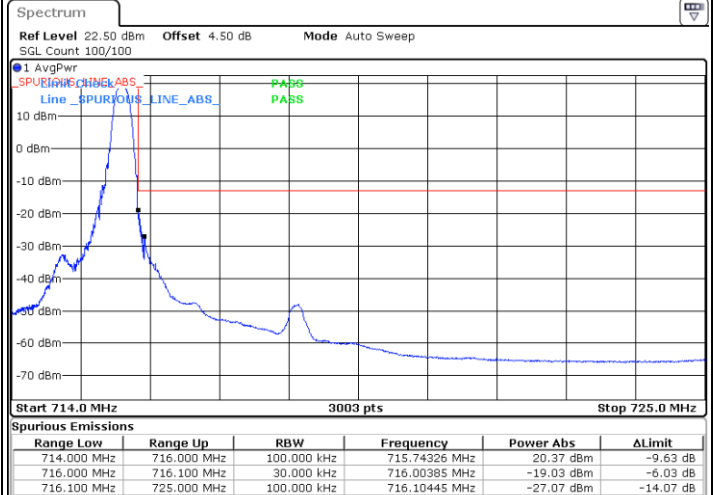
Conducted Band Edge

LTE Band 12 / 1.4MHz / QPSK

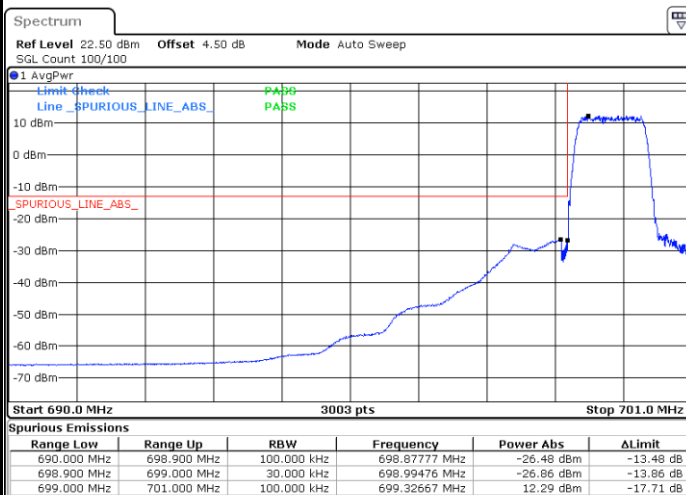
Lowest Band Edge / 1RB



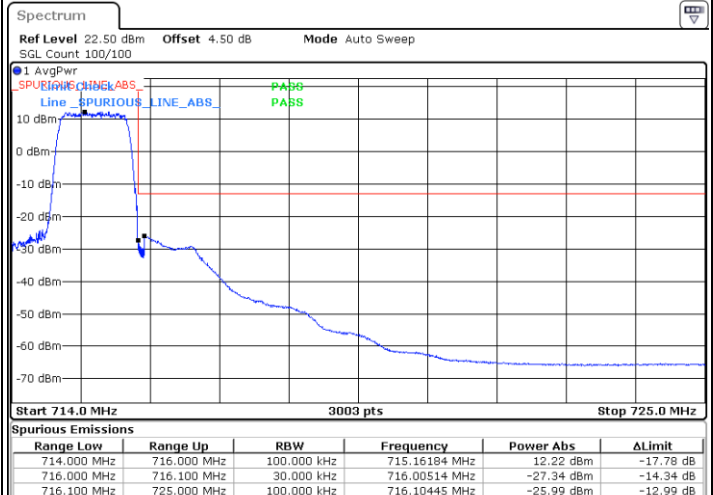
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



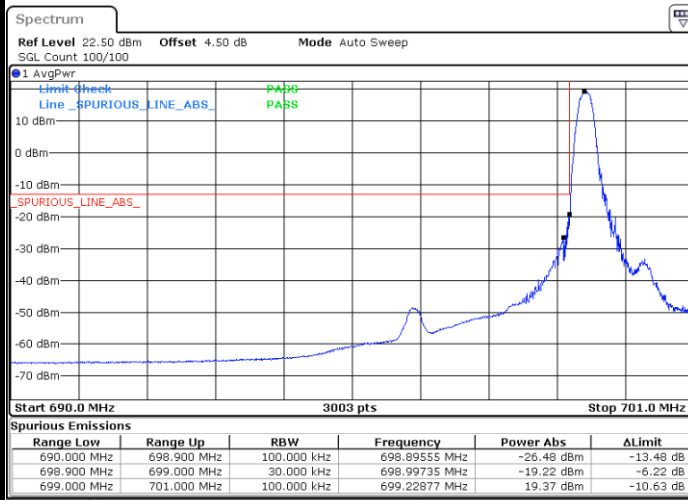
Highest Band Edge / Full RB



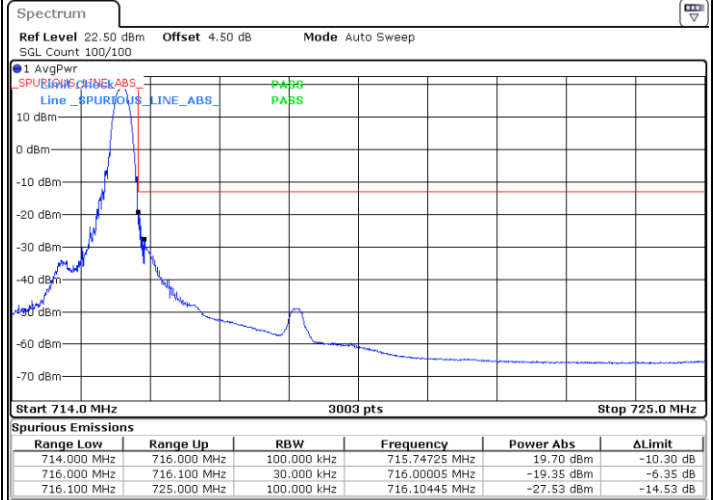


LTE Band 12 / 1.4MHz / 16QAM

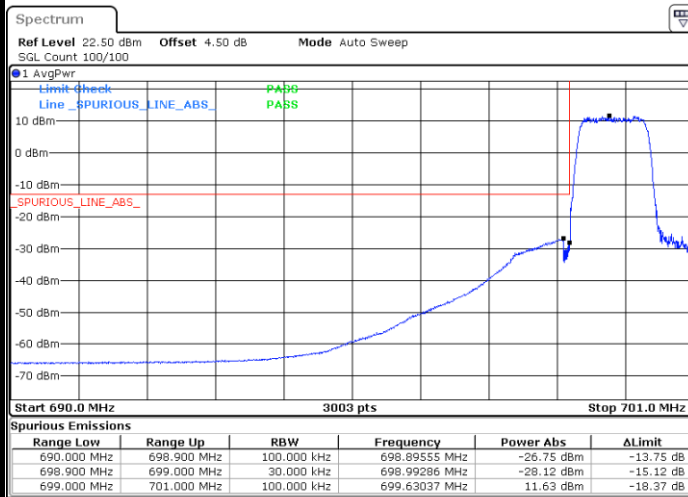
Lowest Band Edge / 1 RB



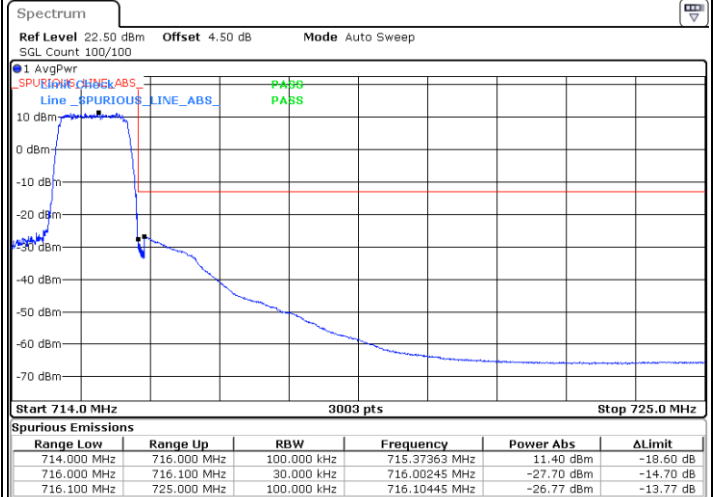
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



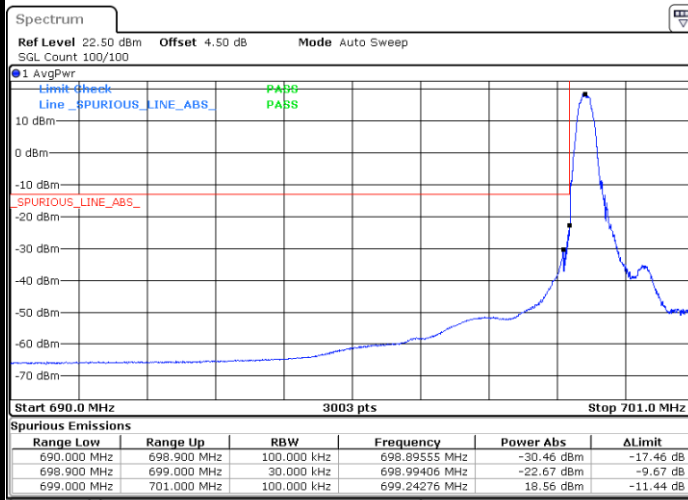
Highest Band Edge / Full RB





LTE Band 12 / 1.4MHz / 64QAM

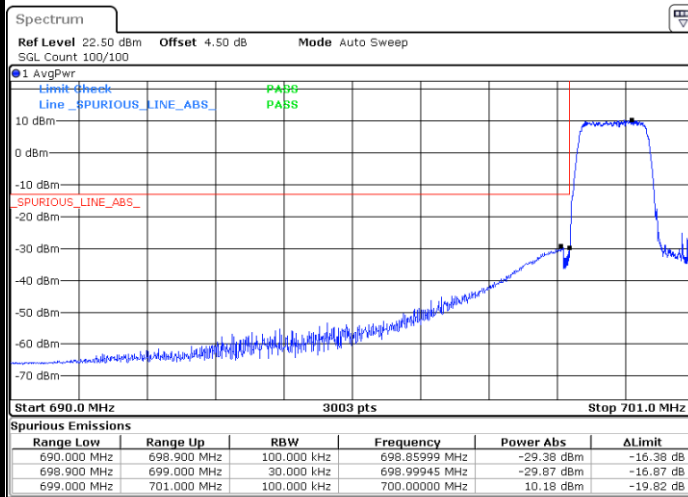
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

