



Frequency Stability

Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0015	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0015	
0	Normal Voltage	0.0019	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0001	
-30	Normal Voltage	0.0016	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0020	
20	Battery End Point	0.0014	

Note:

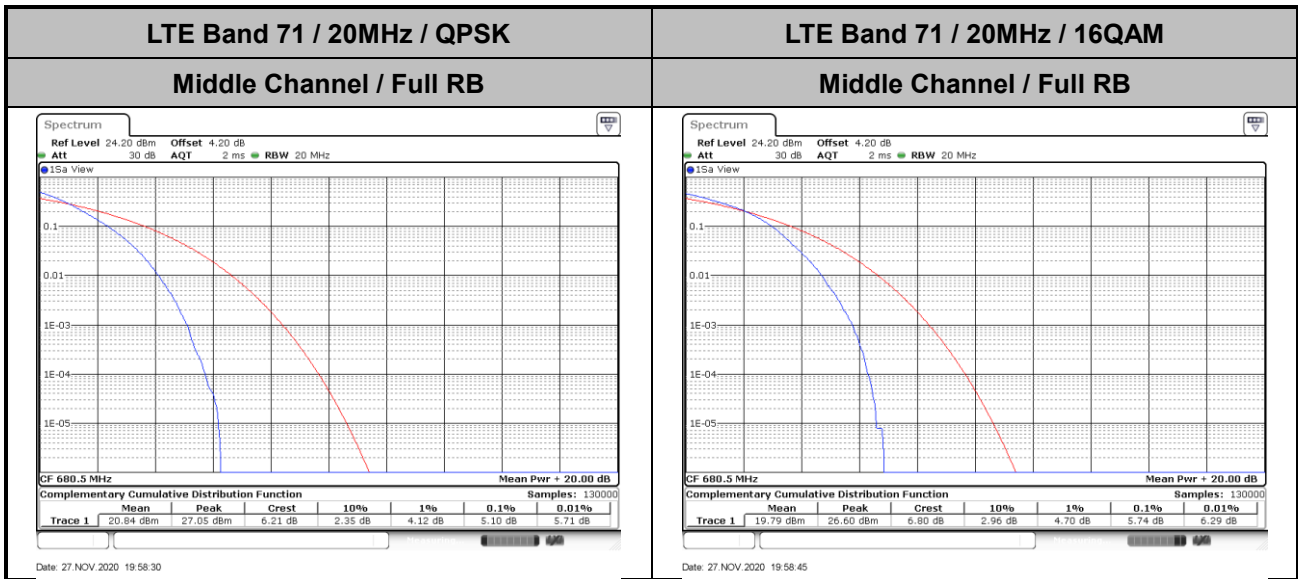
1. Normal Voltage =3.3 V. ; Battery End Point (BEP) =3.135 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 71

Peak-to-Average Ratio

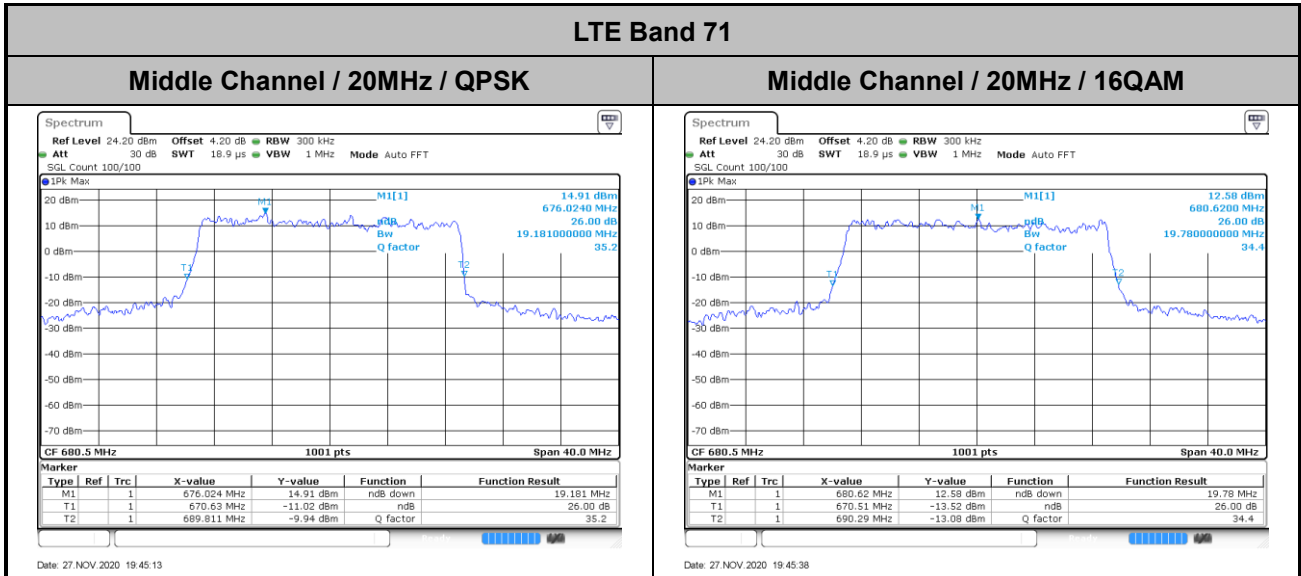
Mode	LTE Band 71 / 20MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	5.10	5.74	PASS





26dB Bandwidth

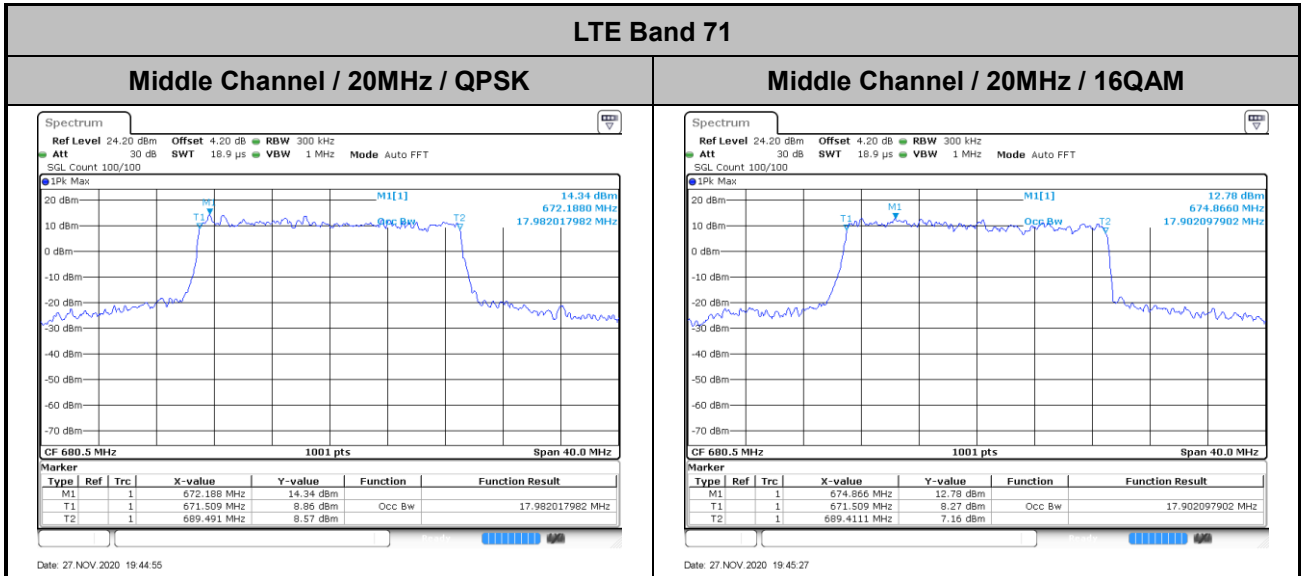
Mode	LTE Band 71 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	19.18	19.78





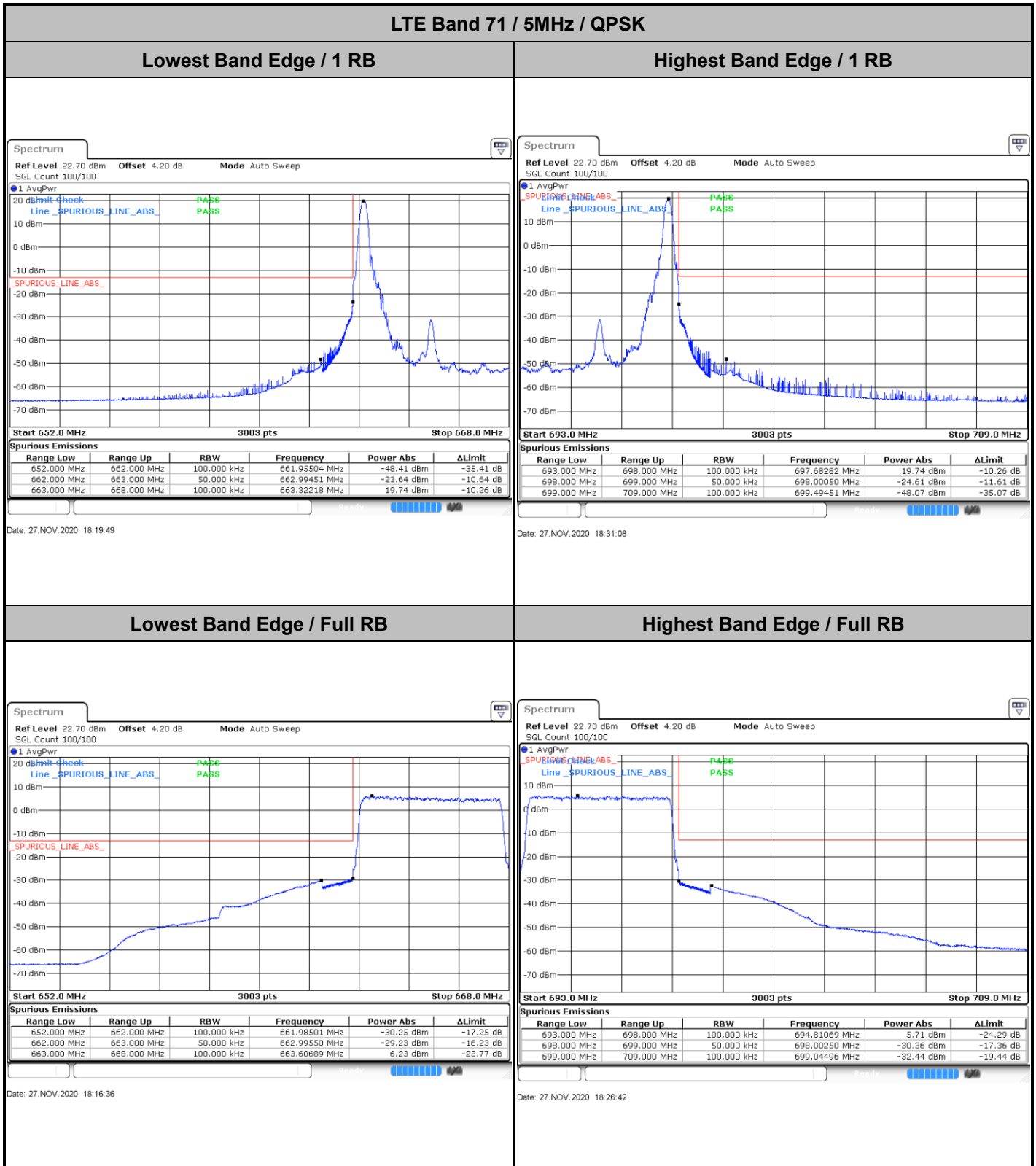
Occupied Bandwidth

Mode	LTE Band 71 : 99%OBW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.98	17.90





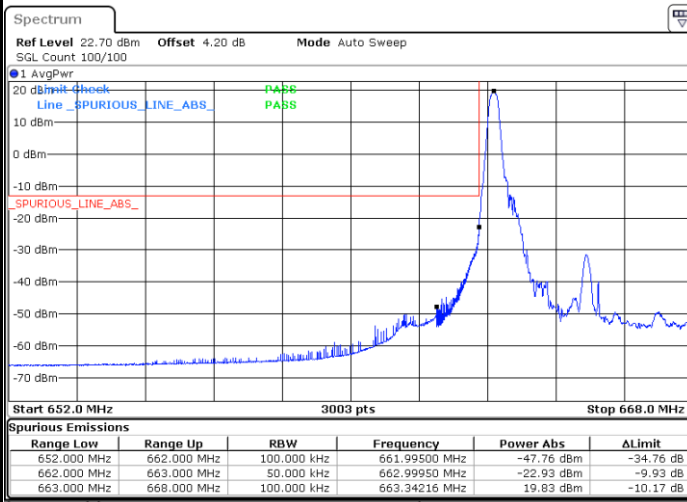
Conducted Band Edge





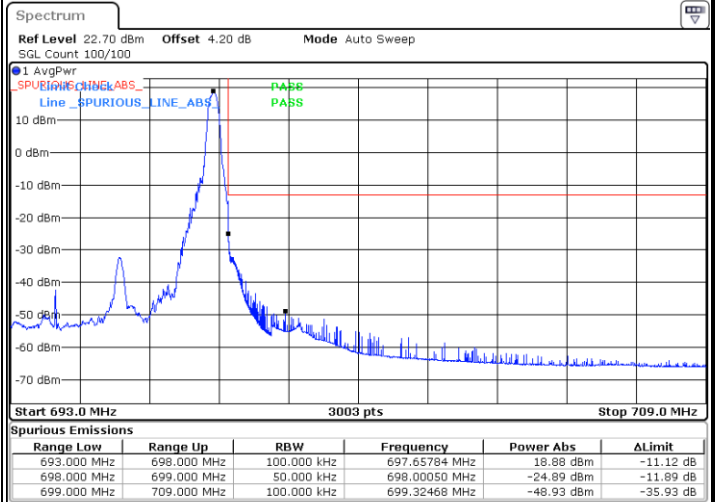
LTE Band 71 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



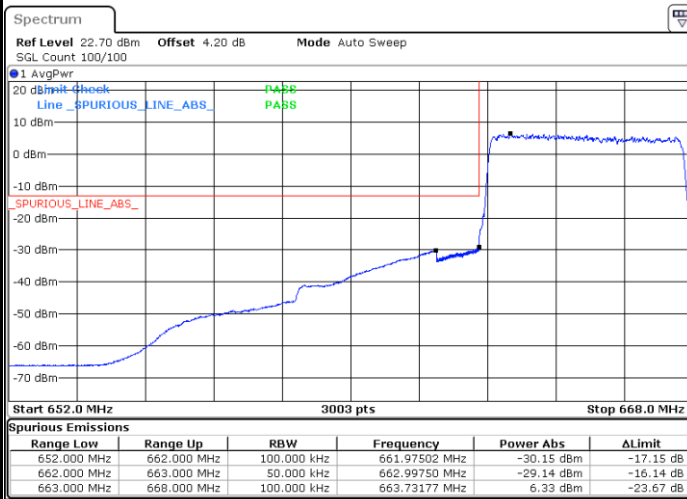
Date: 27.NOV.2020 18:18:38

Highest Band Edge / 1 RB



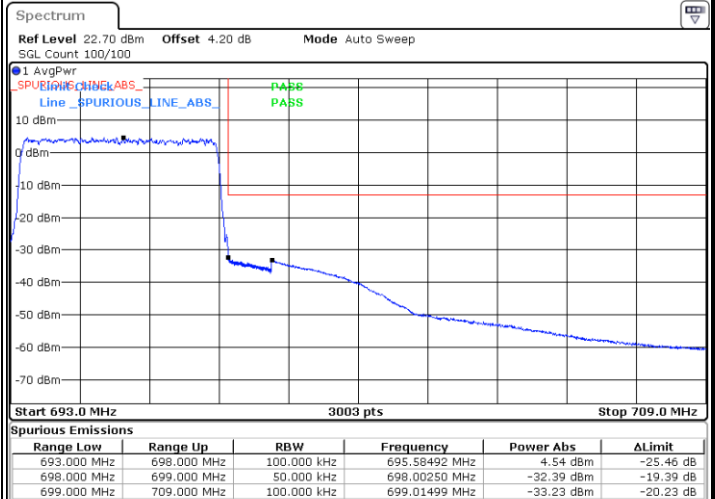
Date: 27.NOV.2020 18:32:19

Lowest Band Edge / Full RB



Date: 27.NOV.2020 18:17:24

Highest Band Edge / Full RB

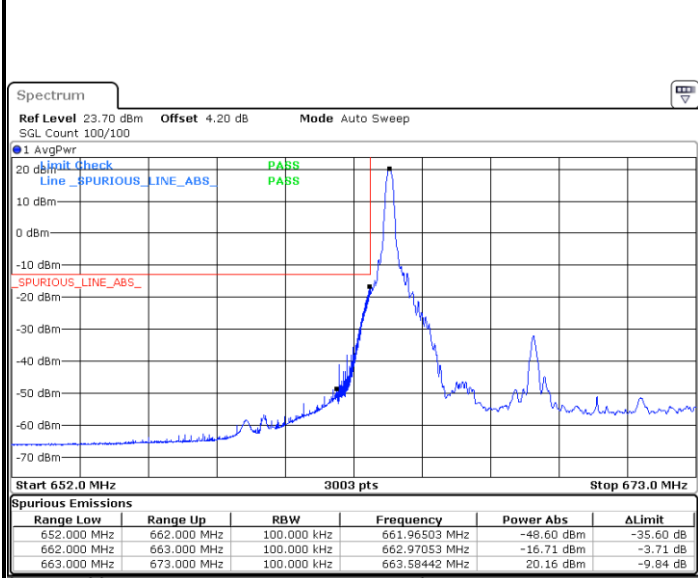


Date: 27.NOV.2020 18:25:33



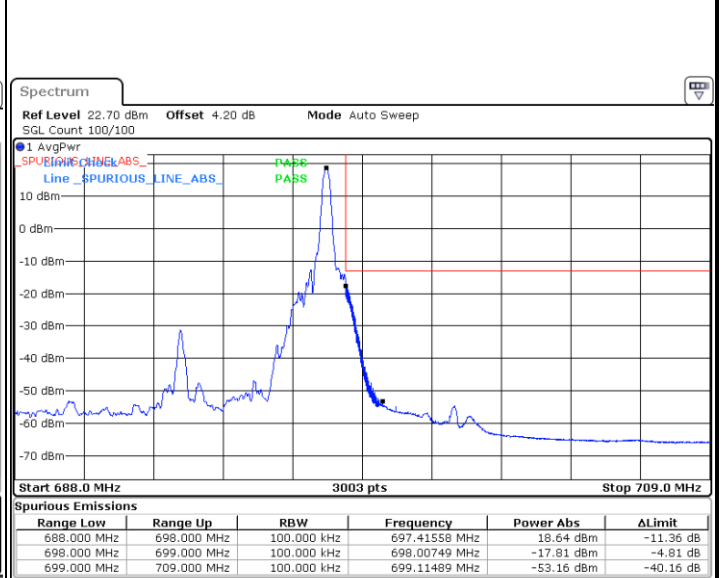
LTE Band 71 / 10MHz / QPSK

Lowest Band Edge / 1 RB



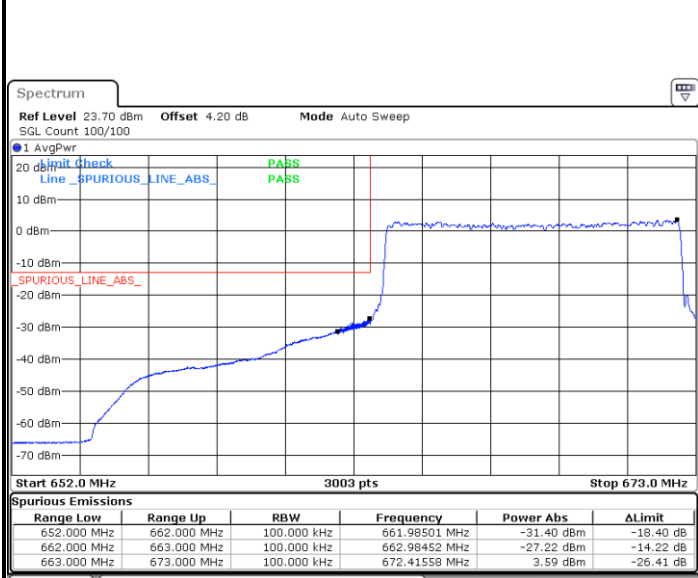
Date: 27.NOV.2020 18:41:56

Highest Band Edge / 1 RB



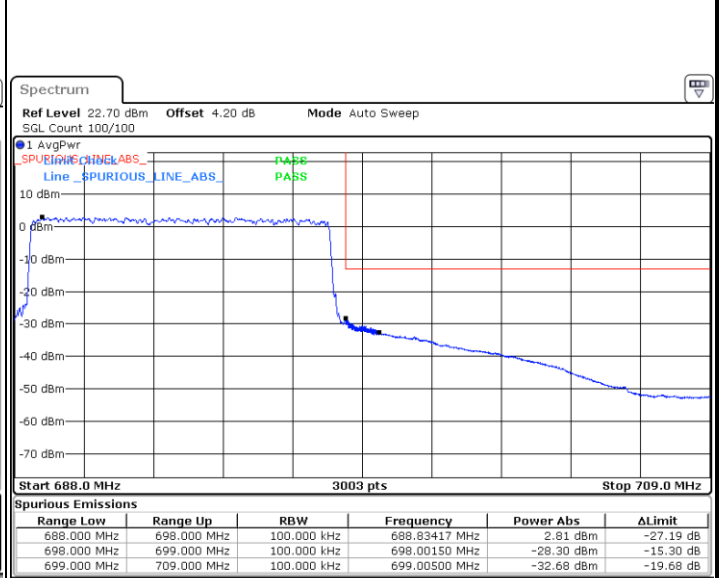
Date: 27.NOV.2020 18:53:21

Lowest Band Edge / Full RB



Date: 27.NOV.2020 18:40:08

Highest Band Edge / Full RB

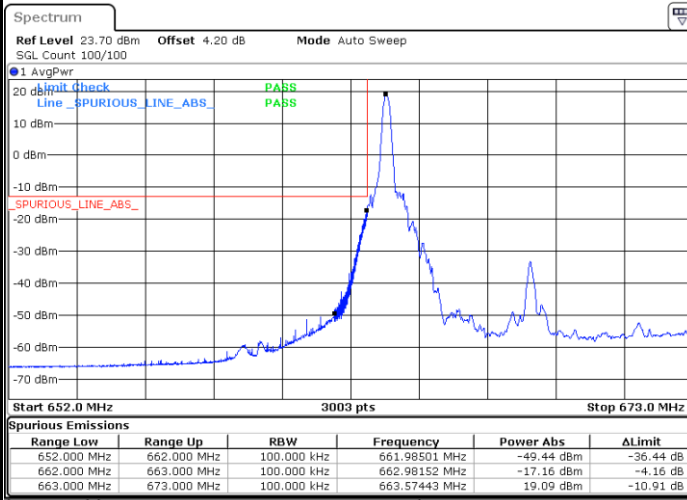


Date: 27.NOV.2020 18:50:10



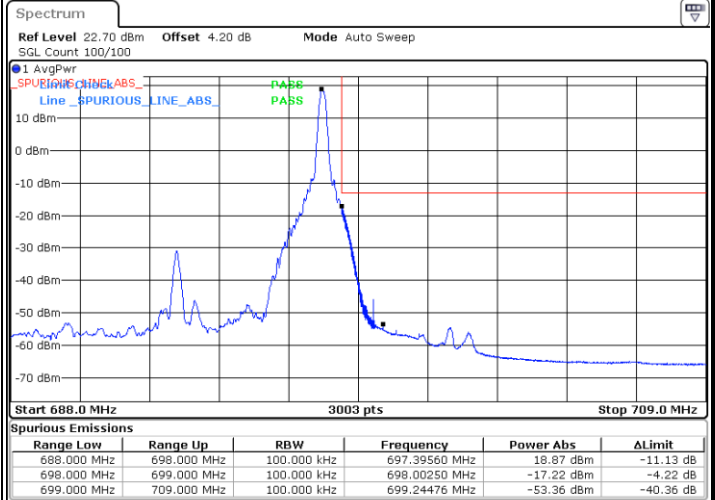
LTE Band 71 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



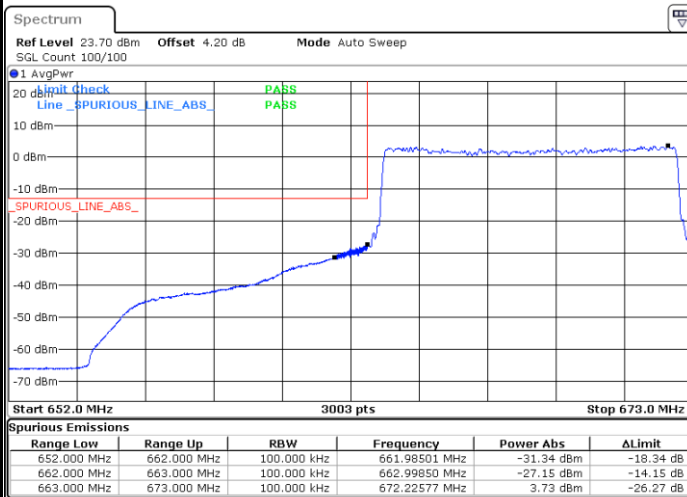
Date: 27.NOV.2020 18:45:05

Highest Band Edge / 1 RB



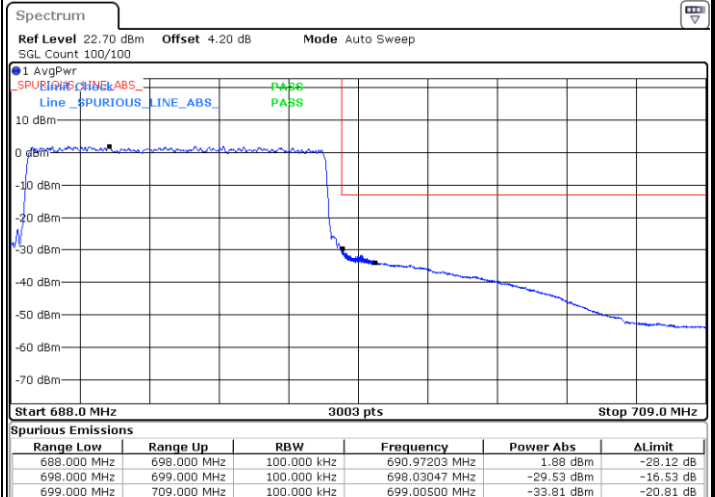
Date: 27.NOV.2020 18:54:08

Lowest Band Edge / Full RB



Date: 27.NOV.2020 18:38:40

Highest Band Edge / Full RB

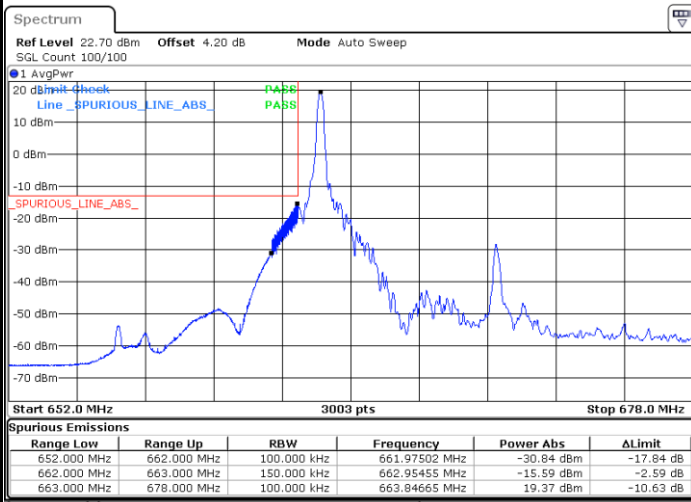


Date: 27.NOV.2020 18:51:08



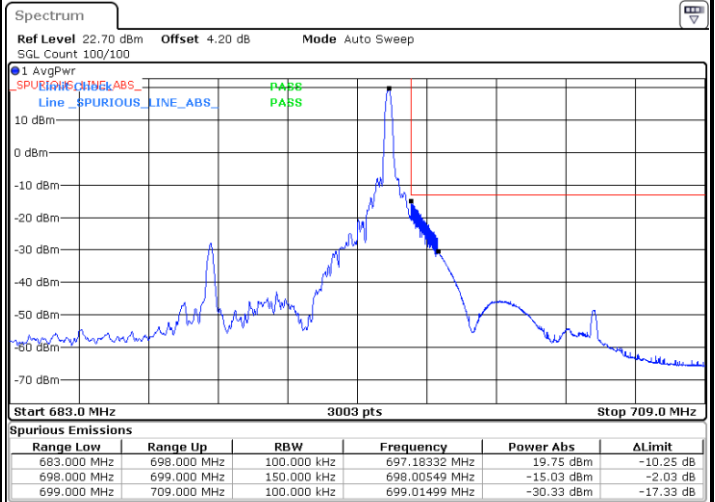
LTE Band 71 / 15MHz / QPSK

Lowest Band Edge / 1 RB



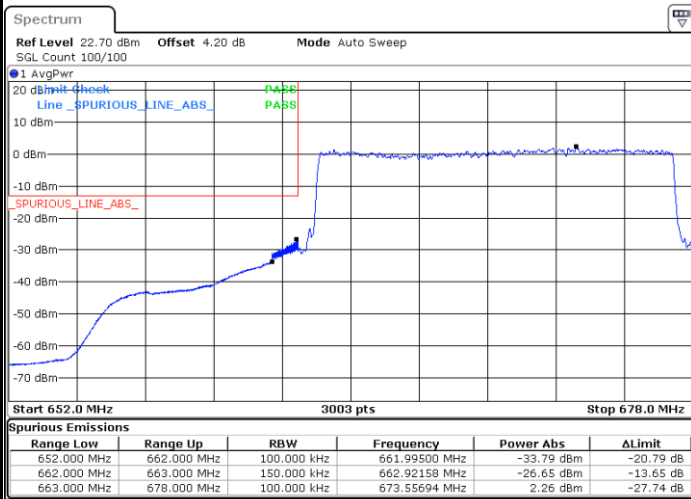
Date: 27.NOV.2020 19:16:06

Highest Band Edge / 1 RB



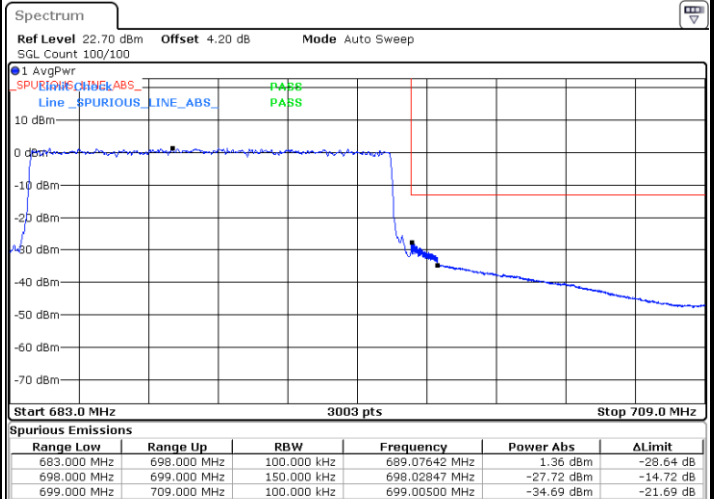
Date: 27.NOV.2020 19:30:51

Lowest Band Edge / Full RB



Date: 27.NOV.2020 18:58:28

Highest Band Edge / Full RB

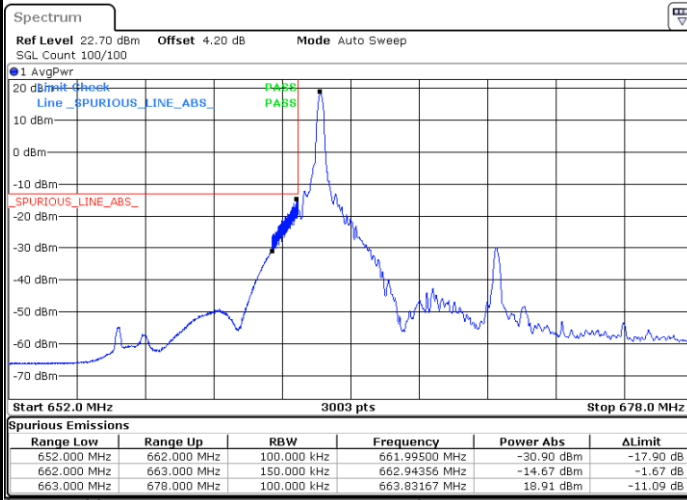


Date: 27.NOV.2020 19:26:11



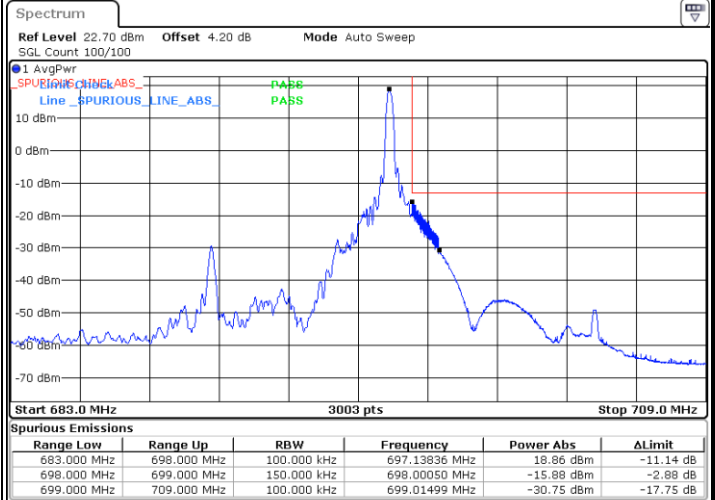
LTE Band 71 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



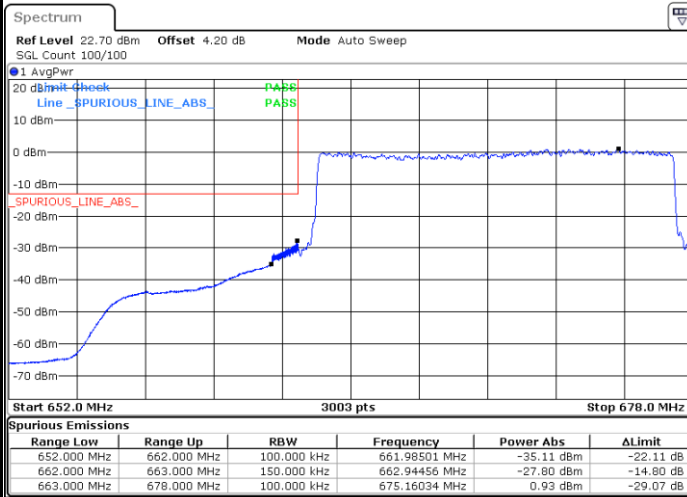
Date: 27.NOV.2020 19:09:14

Highest Band Edge / 1 RB



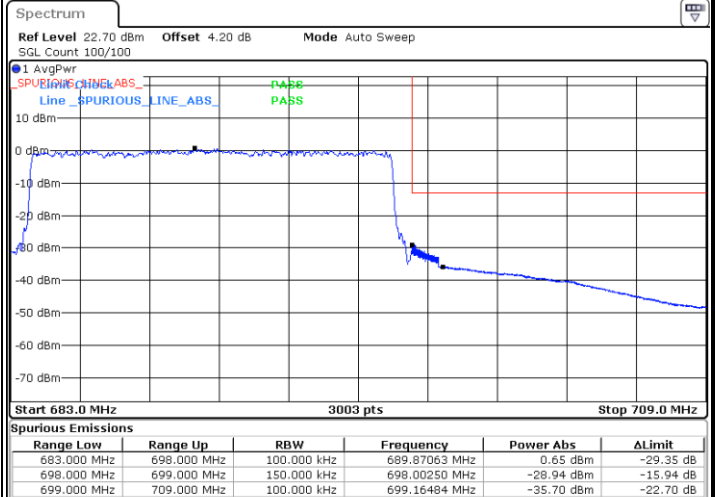
Date: 27.NOV.2020 19:32:55

Lowest Band Edge / Full RB



Date: 27.NOV.2020 18:59:23

Highest Band Edge / Full RB

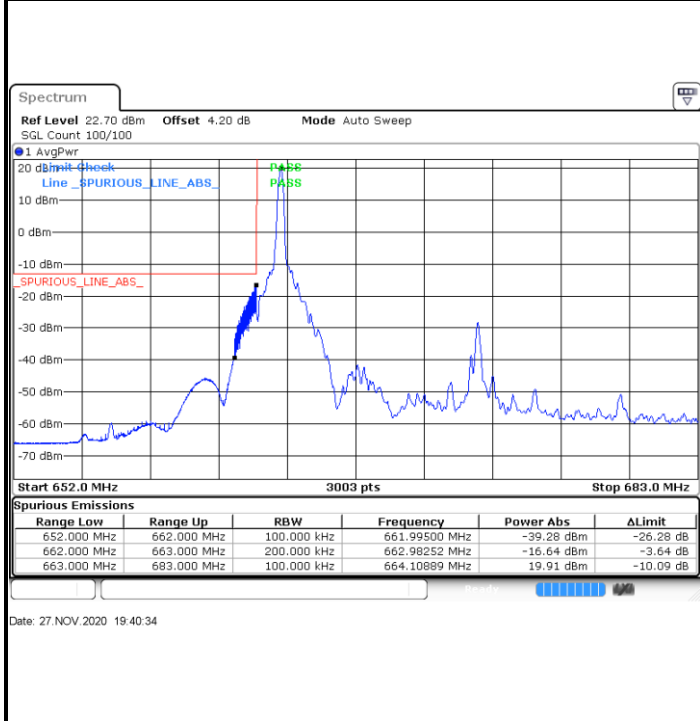


Date: 27.NOV.2020 19:24:05

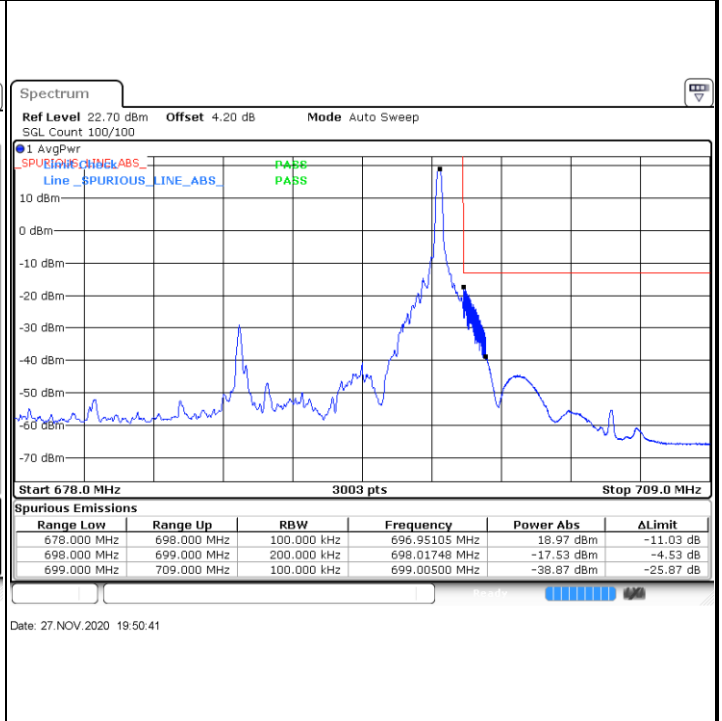


LTE Band 71 / 20MHz / QPSK

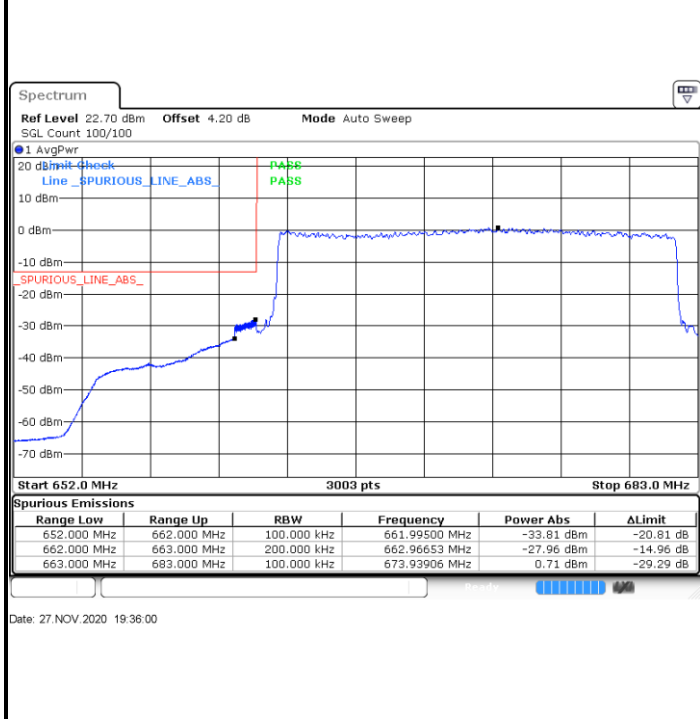
Lowest Band Edge / 1 RB



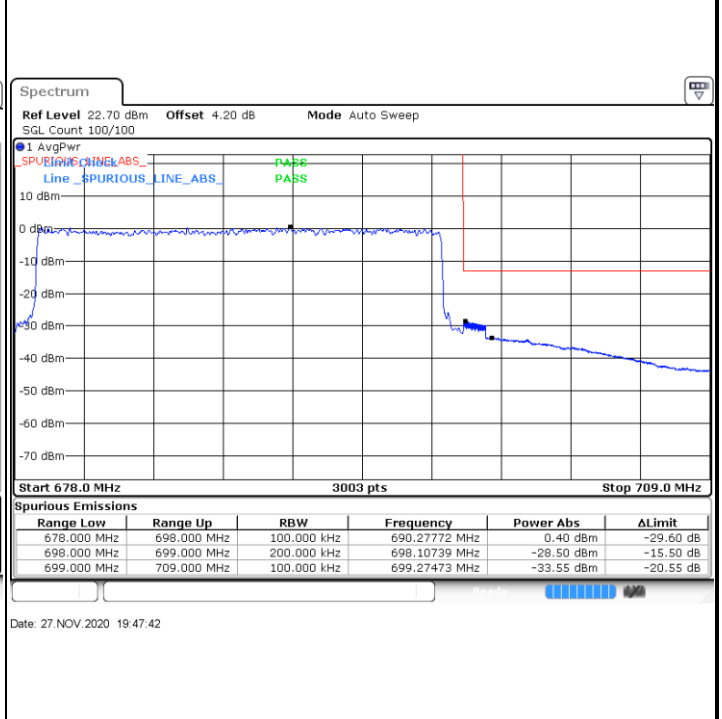
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



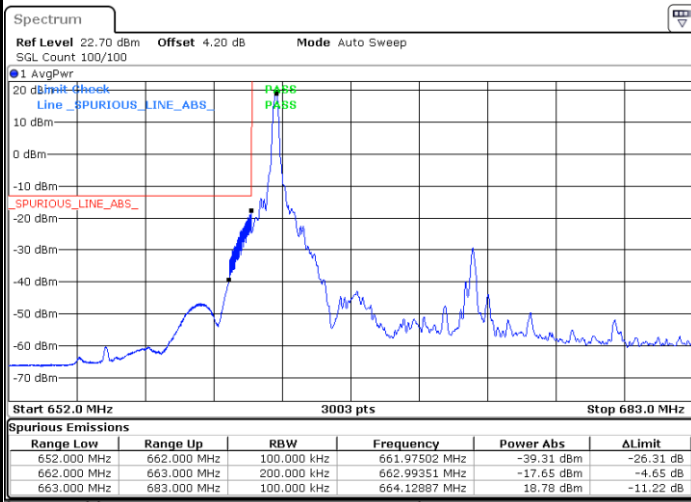
Highest Band Edge / Full RB





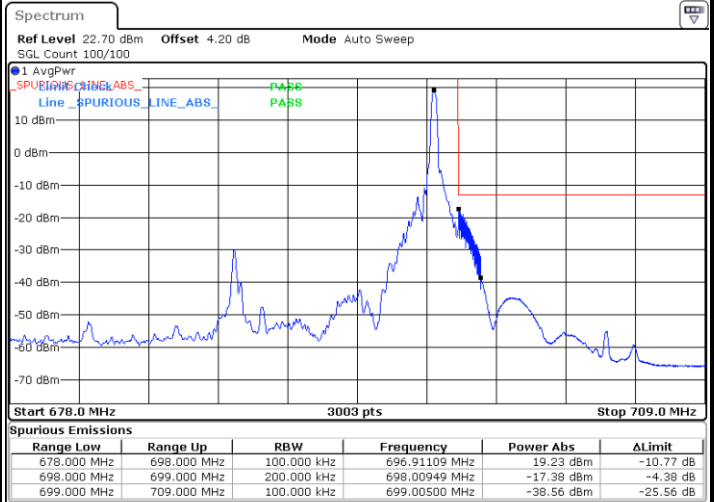
LTE Band 71 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



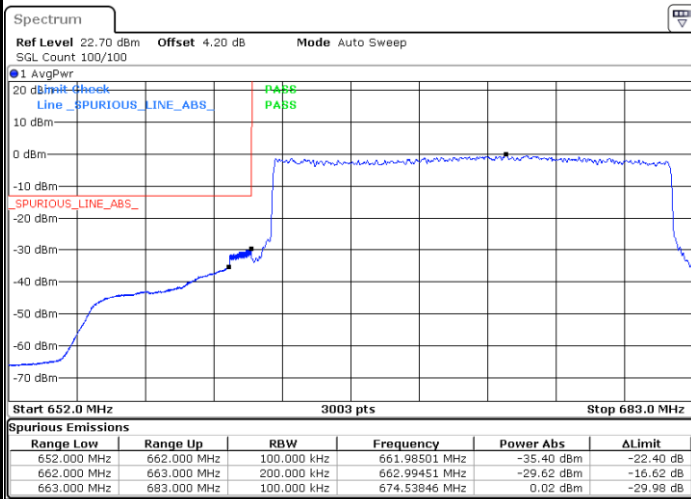
Date: 27.NOV.2020 19:38:41

Highest Band Edge / 1RB



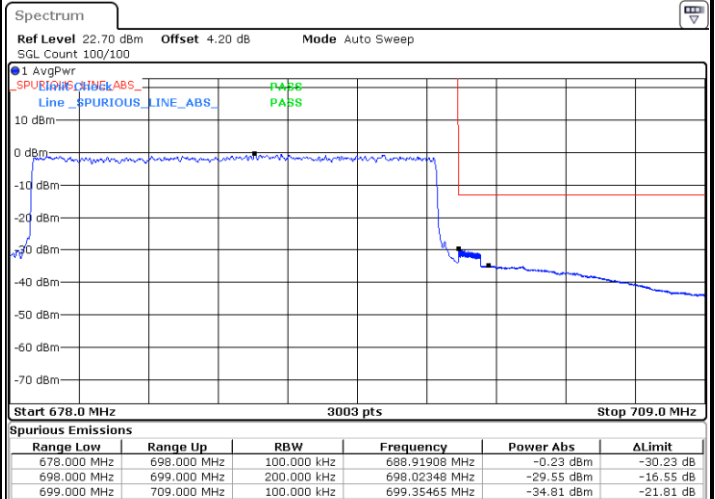
Date: 27.NOV.2020 19:49:32

Lowest Band Edge / Full RB



Date: 27.NOV.2020 19:37:47

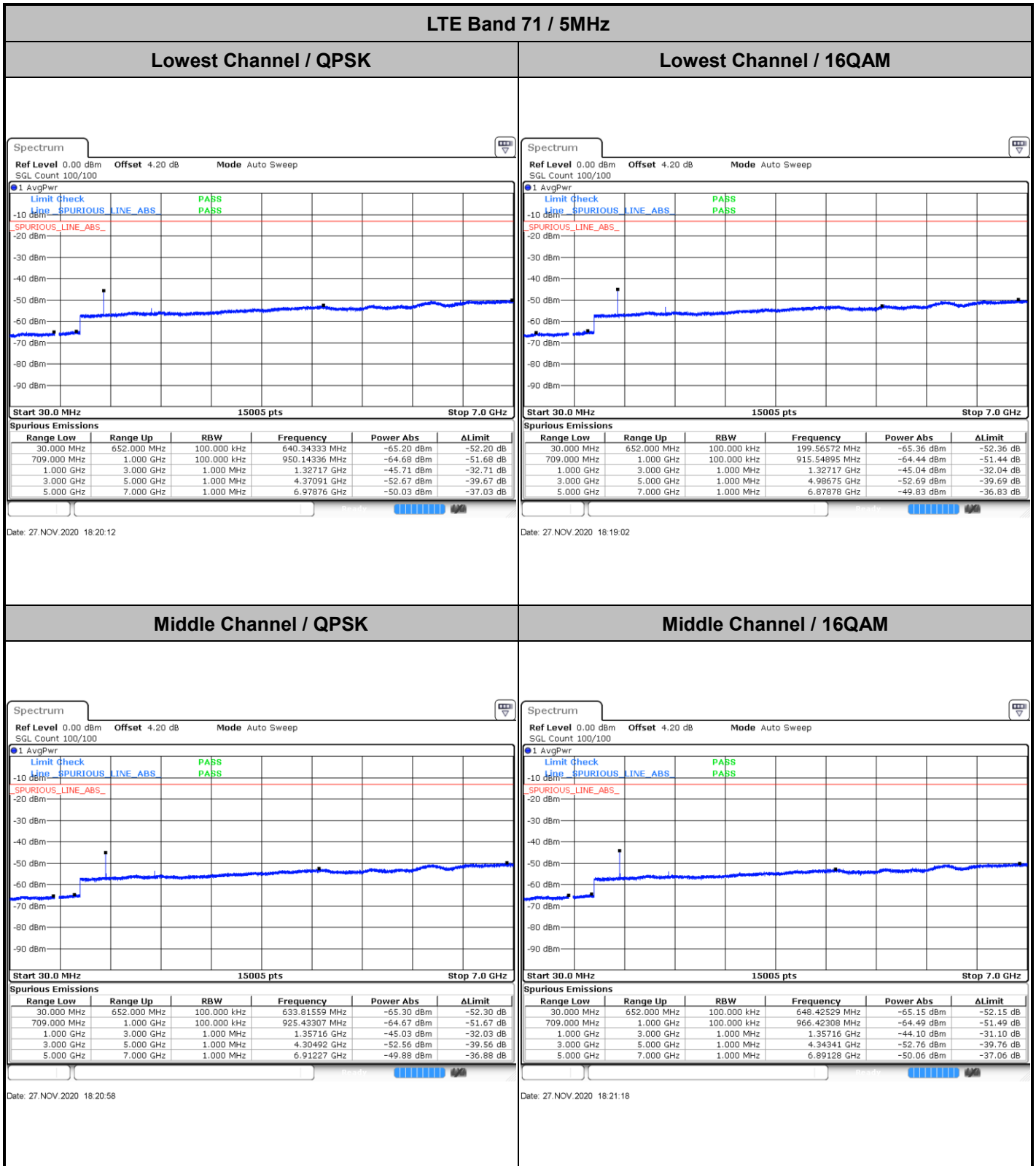
Highest Band Edge / Full RB



Date: 27.NOV.2020 19:46:43



Conducted Spurious Emission

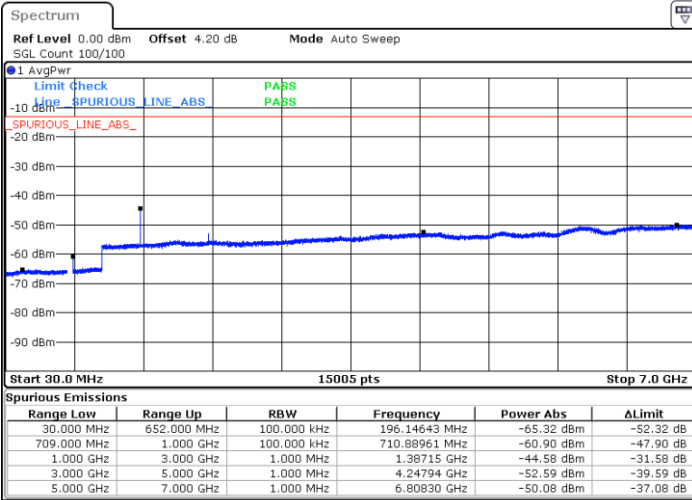




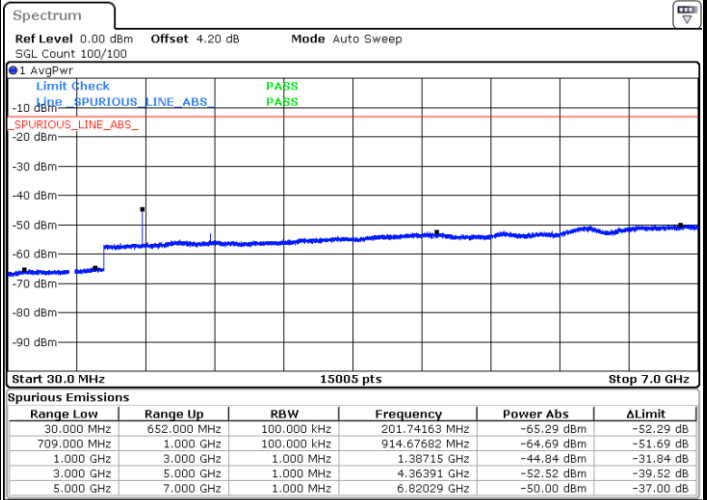
LTE Band 71 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 27.NOV.2020 18:29:16

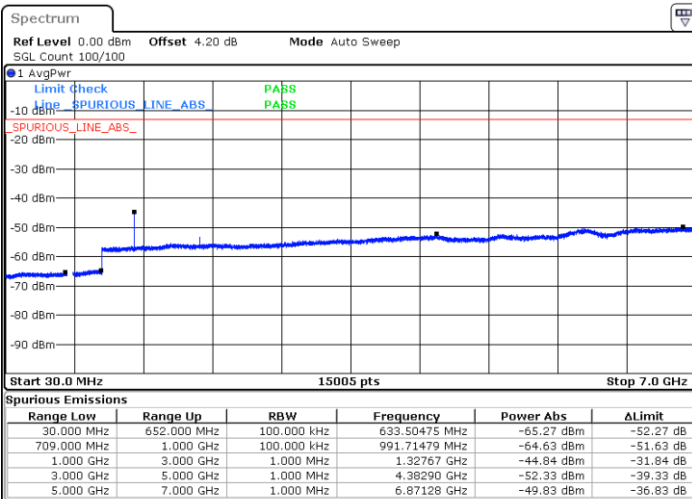


Date: 27.NOV.2020 18:29:38

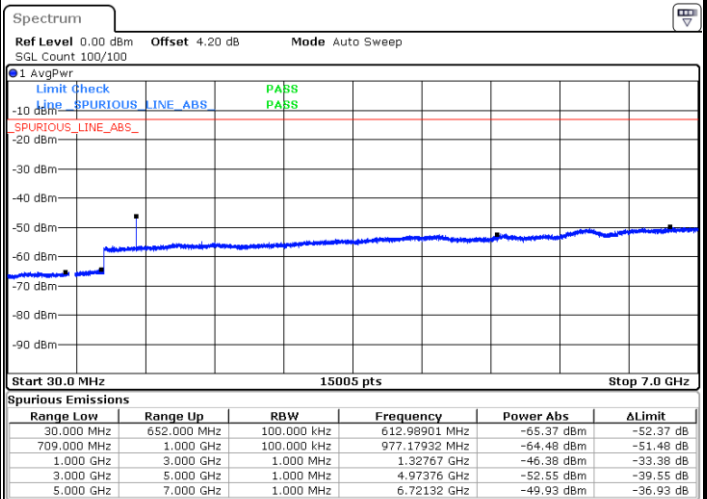
LTE Band 71 / 10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 27.NOV.2020 18:42:28



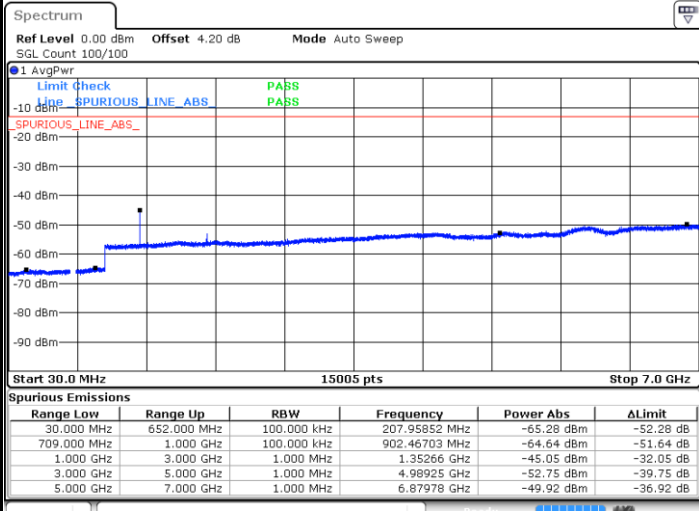
Date: 27.NOV.2020 18:46:10



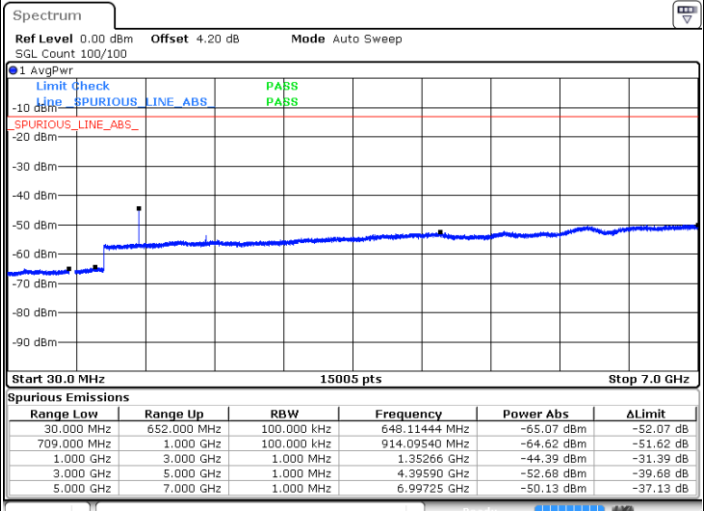
LTE Band 71 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM



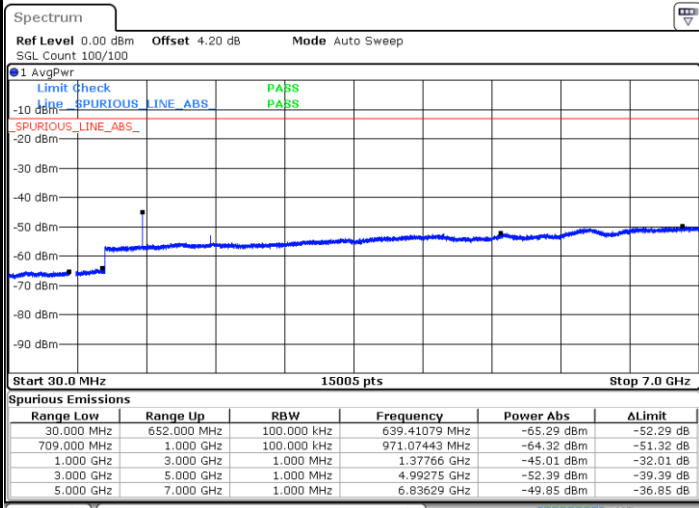
Date: 27.NOV.2020 18:47:17



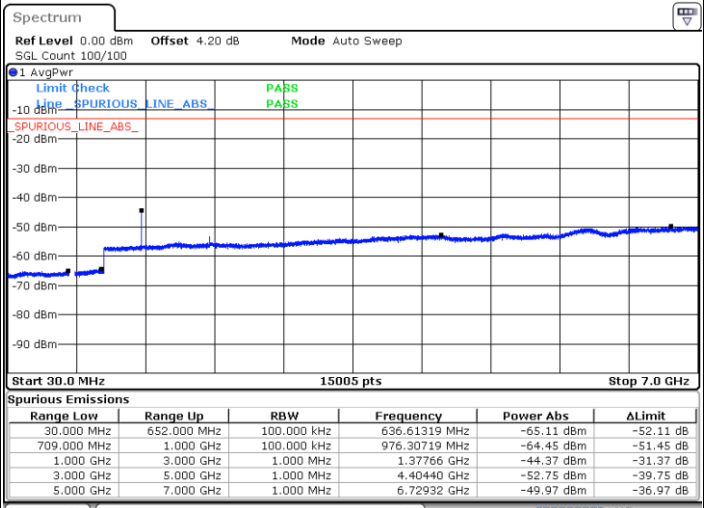
Date: 27.NOV.2020 18:46:50

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 27.NOV.2020 18:52:12



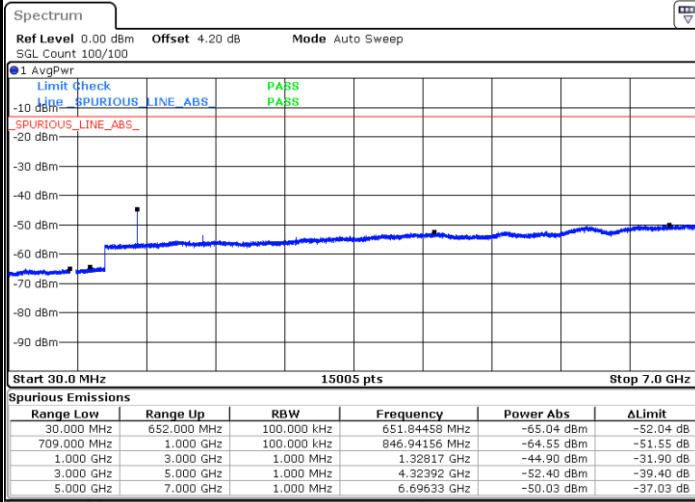
Date: 27.NOV.2020 18:51:44



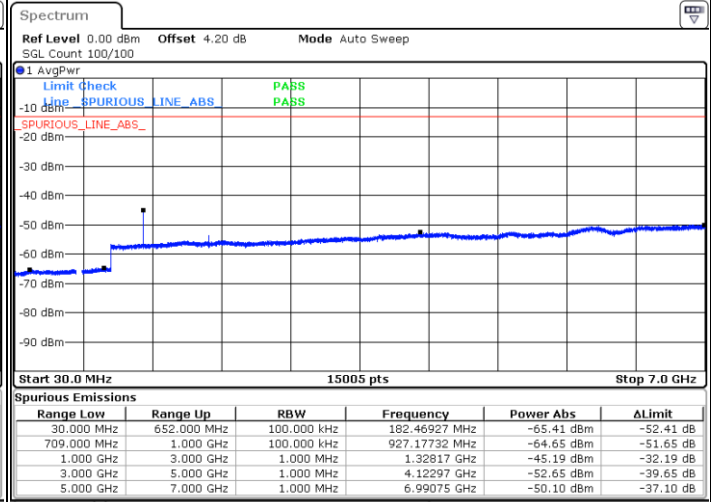
LTE Band 71 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



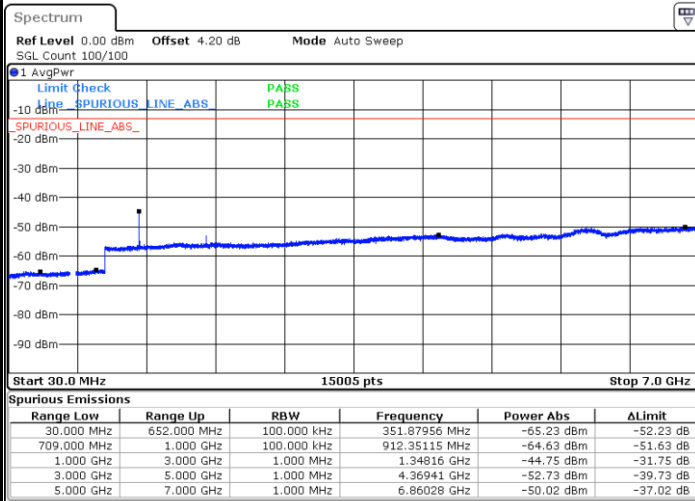
Date: 27.NOV.2020 19:16:29



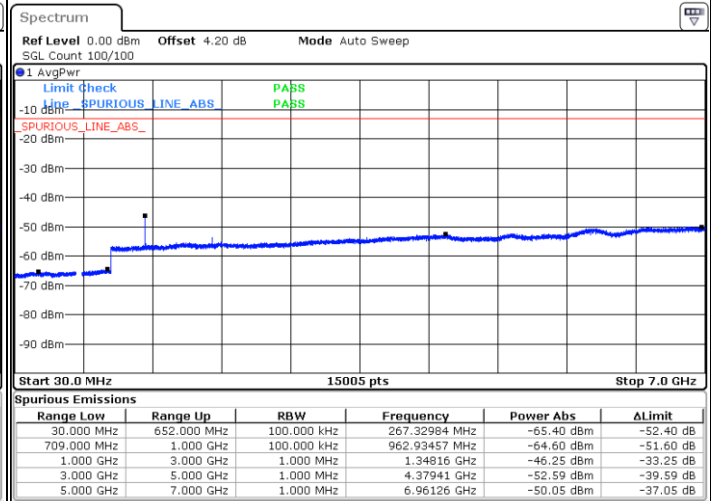
Date: 27.NOV.2020 19:09:55

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 27.NOV.2020 19:20:40

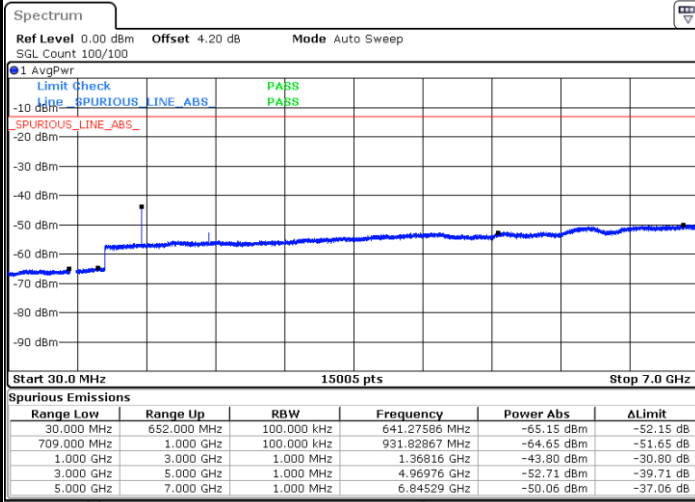


Date: 27.NOV.2020 19:21:09



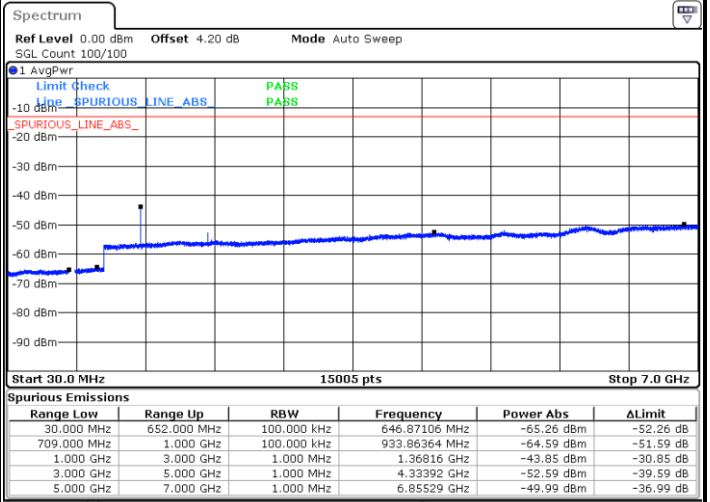
LTE Band71 / 15MHz

Highest Channel / QPSK



Date: 27.NOV.2020 19:27:06

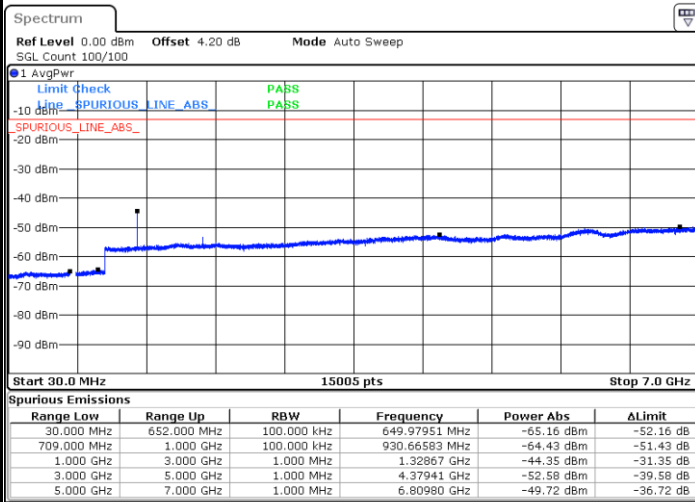
Highest Channel / 16QAM



Date: 27.NOV.2020 19:29:27

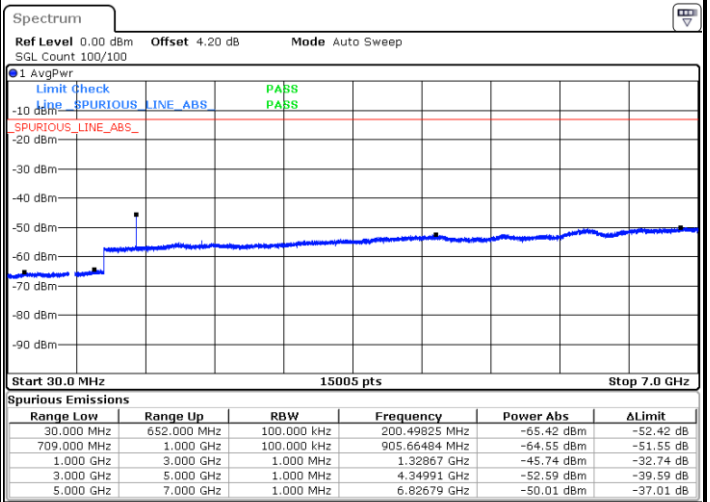
LTE Band 71 / 20MHz

Lowest Channel / QPSK



Date: 27.NOV.2020 19:41:01

Lowest Channel / 16QAM



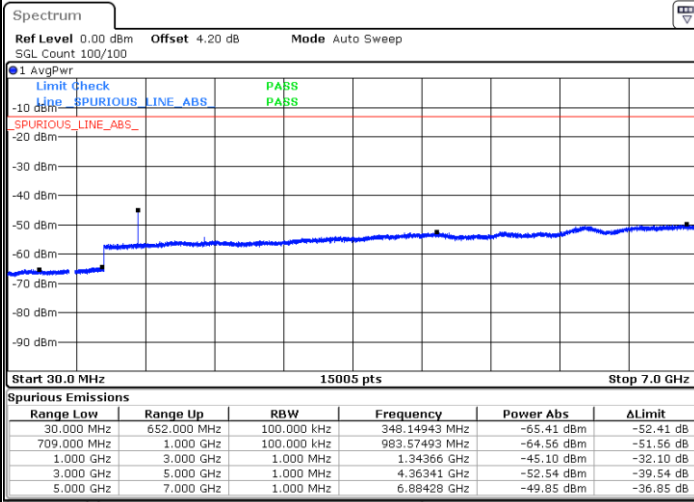
Date: 27.NOV.2020 19:39:00



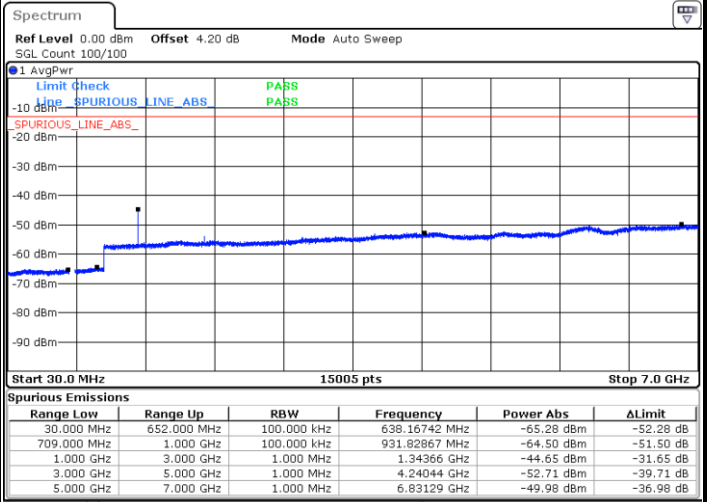
LTE Band 71 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM



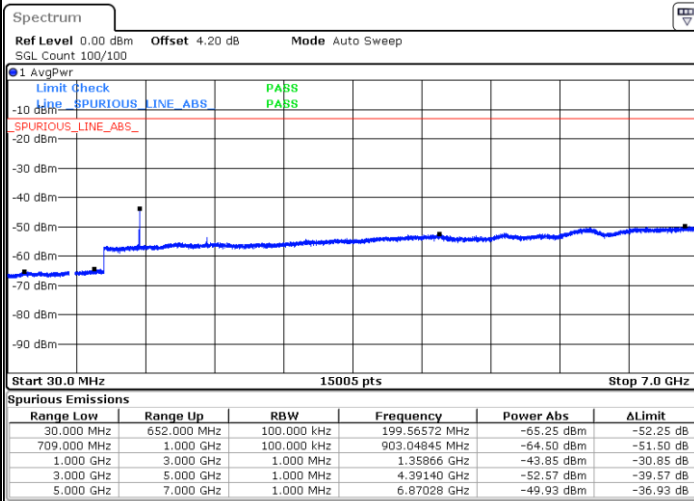
Date: 27.NOV.2020 19:42:57



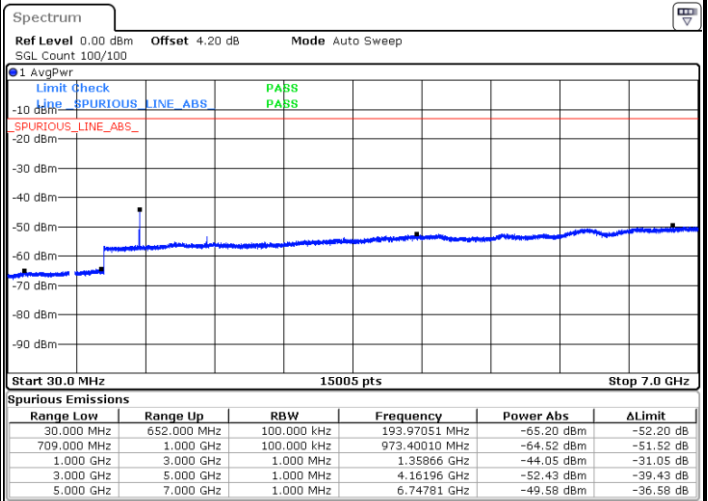
Date: 27.NOV.2020 19:43:35

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 27.NOV.2020 19:48:14



Date: 27.NOV.2020 19:48:47



Frequency Stability

Test Conditions		LTE Band 71 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0030	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0015	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0014	
-10	Normal Voltage	0.0004	
-20	Normal Voltage	0.0046	
-30	Normal Voltage	0.0019	
20	Maximum Voltage	0.0026	
20	Normal Voltage	0.0003	
20	Battery End Point	0.0006	

Note:

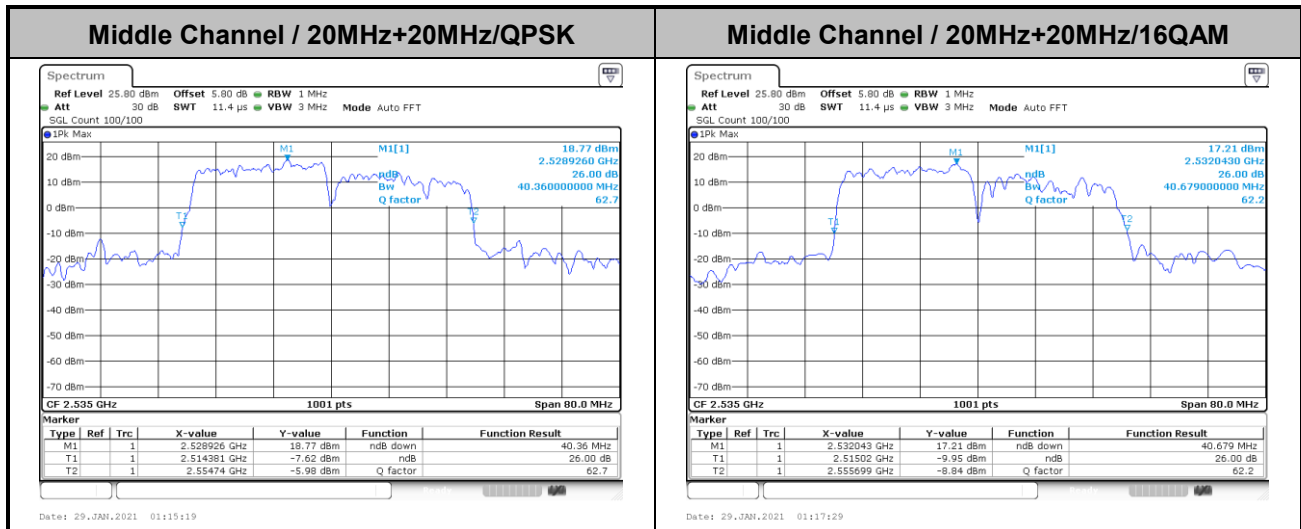
1. Normal Voltage =3.3 V. ; Battery End Point (BEP) =3.135 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 7C

26dB Bandwidth

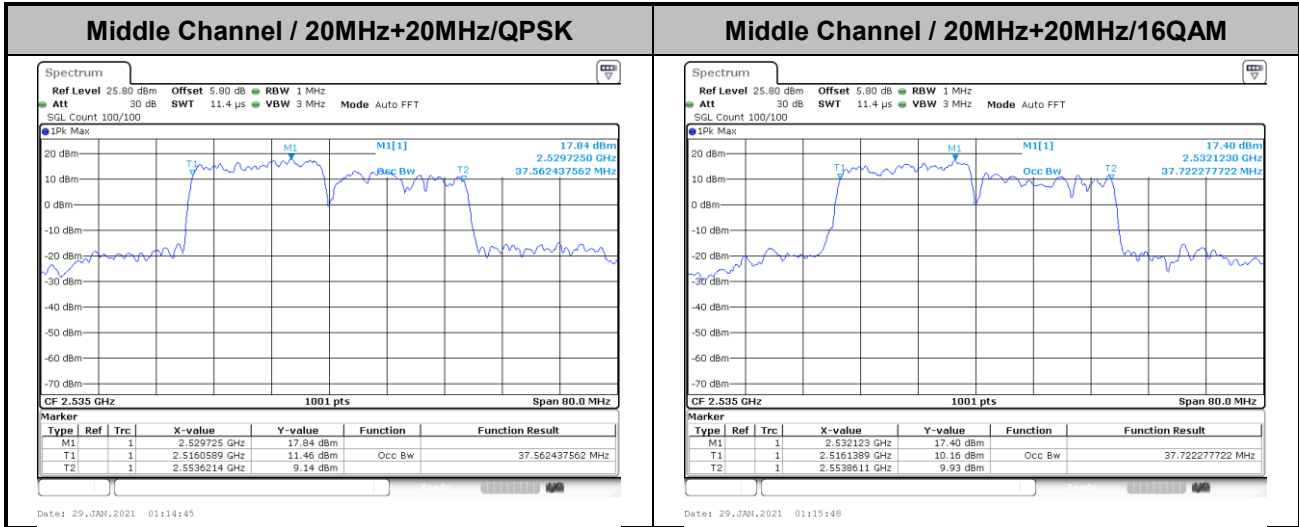
Mode	LTE Band 7C : 26dB BW(MHz)	
Mod.	QPSK	16QAM
BW	20MHz+20MHz	
Middle CH	40.36	40.68





Occupied Bandwidth

Mode	LTE Band 7C : 99%OBW(MHz)	
Mod.	QPSK	16QAM
BW	20MHz+20MHz	
Middle CH	37.56	37.72





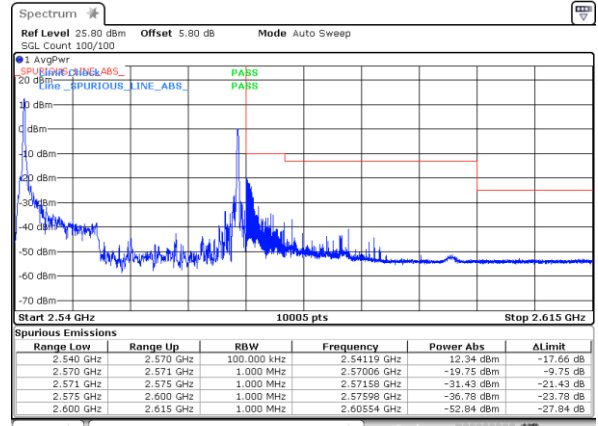
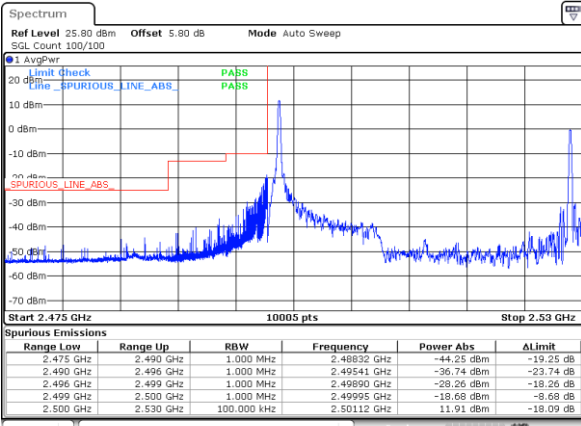
Conducted Band Edge

LTE Band 7C / 10MHz+20MHz

QPSK

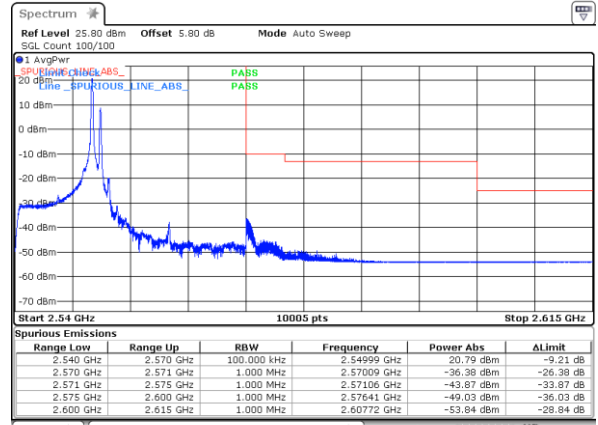
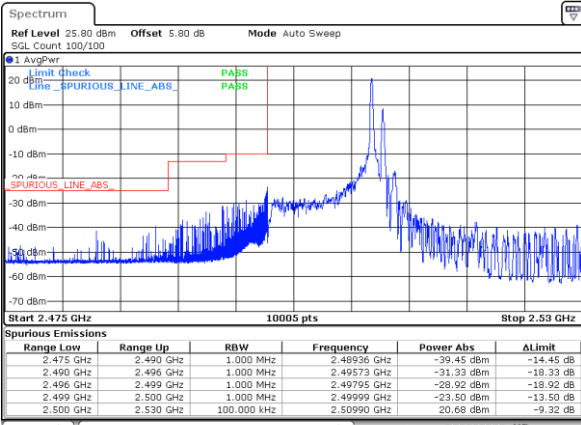
Lowest Band Edge / 1RB0 and 1RB9

Highest Band Edge / 1RB0 and 1RB9



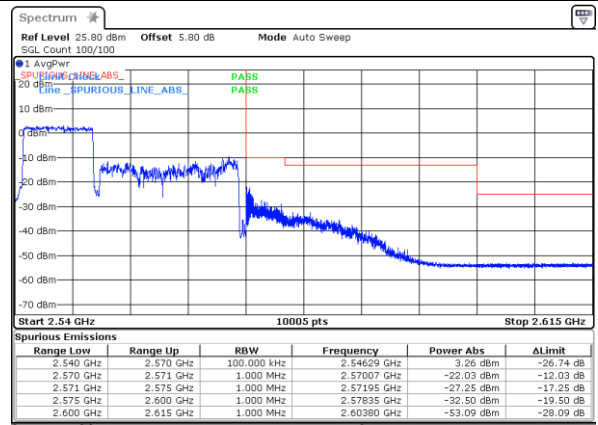
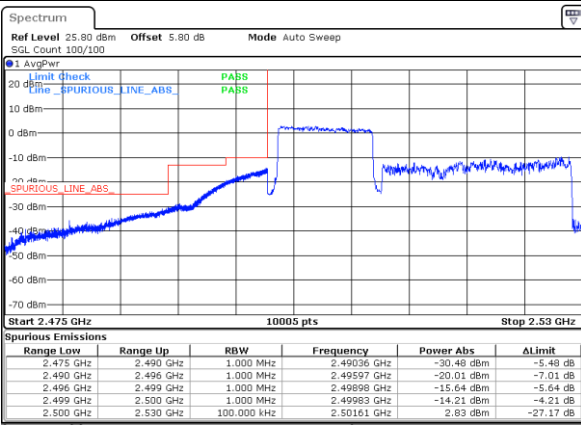
Lowest Band Edge / 1RB49 and 1RB0

Highest Band Edge / 1RB49 and 1RB0



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

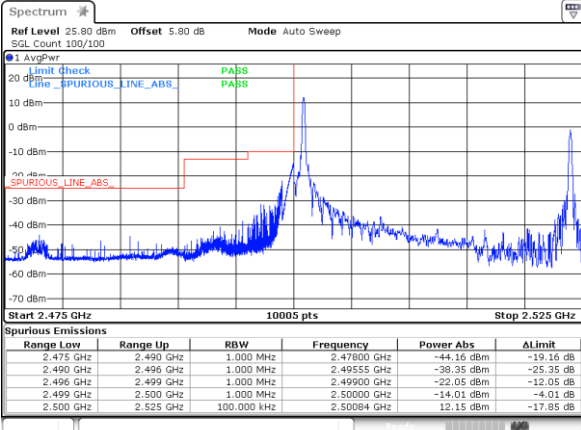




LTE Band 7C / 15MHz+10MHz

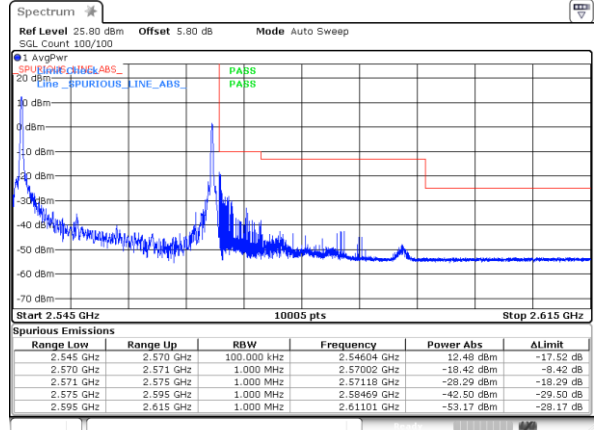
QPSK

Lowest Band Edge / 1RB0 and 1RB49



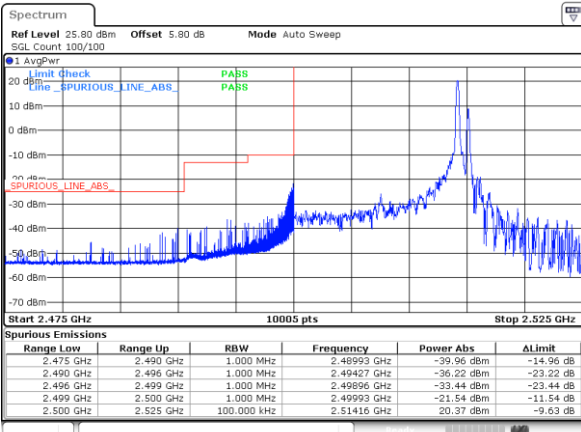
Date: 29_JAN,2021 00:50:55

Highest Band Edge / 1RB0 and 1RB49



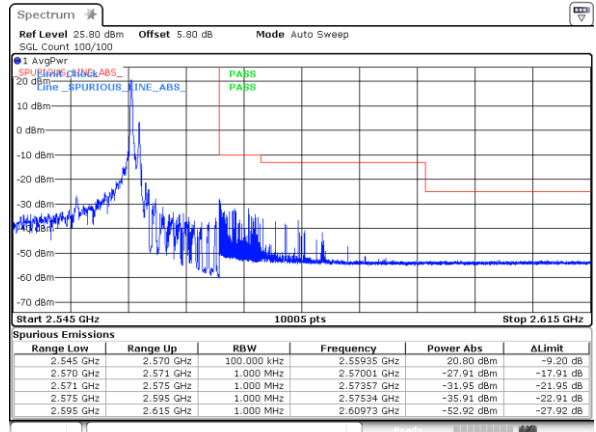
Date: 29_JAN,2021 21:59:34

Lowest Band Edge / 1RB74 and 1RB0



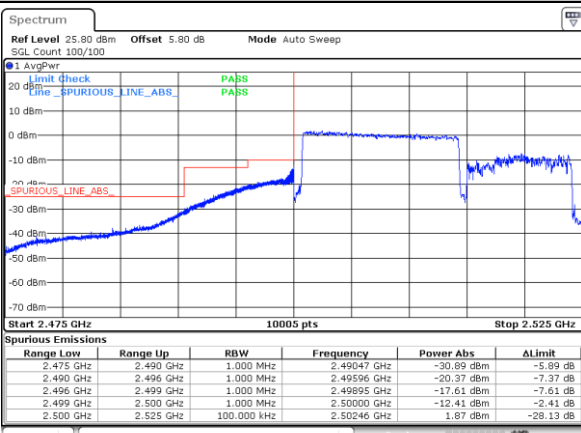
Date: 29_JAN,2021 00:53:39

Highest Band Edge / 1RB74 and 1RB0



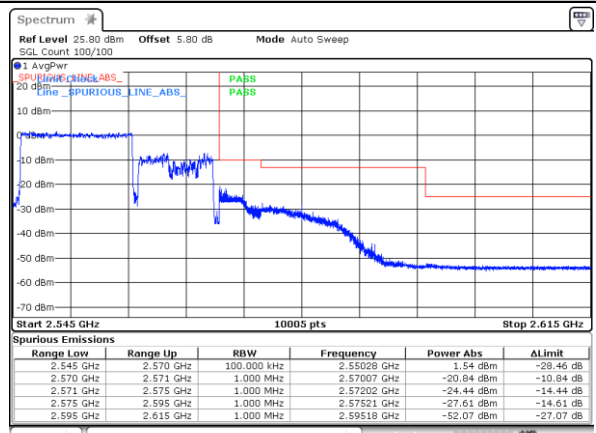
Date: 29_JAN,2021 22:00:51

Lowest Band Edge / Full RB



Date: 29_JAN,2021 00:48:28

Highest Band Edge / Full RB



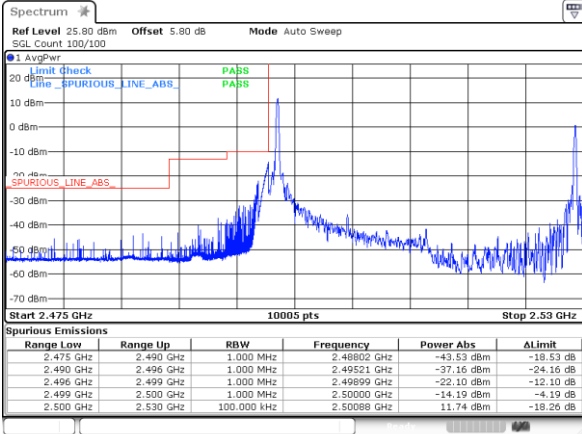
Date: 29_JAN,2021 21:58:22



LTE Band 7C / 15MHz+15MHz

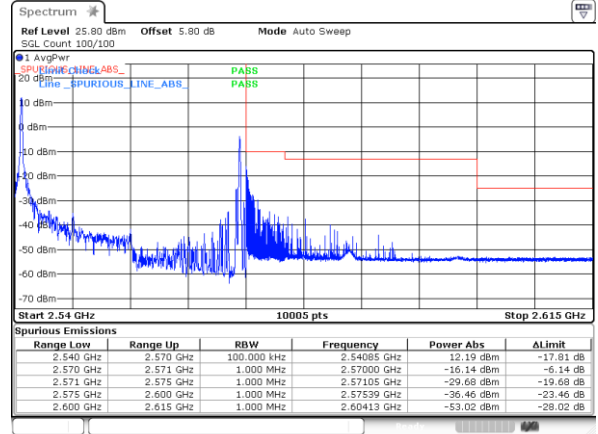
QPSK

Lowest Band Edge / 1RB0 and 1RB74



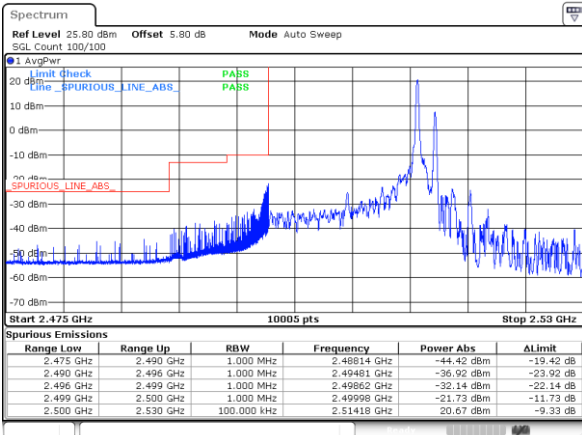
Date: 29_JAN,2021 00:20:25

Highest Band Edge / 1RB0 and 1RB74



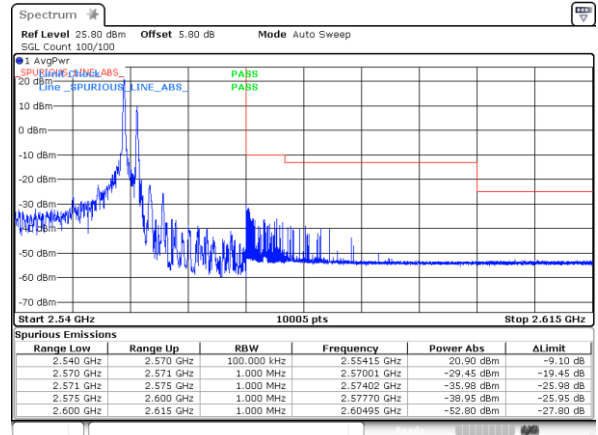
Date: 29_JAN,2021 21:10:10

Lowest Band Edge / 1RB74 and 1RB0



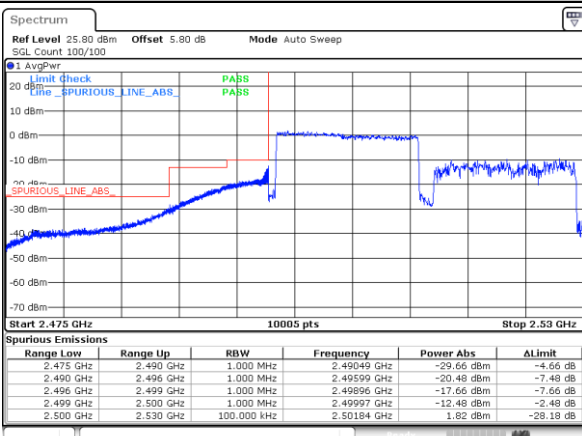
Date: 29_JAN,2021 00:24:14

Highest Band Edge / 1RB74 and 1RB0



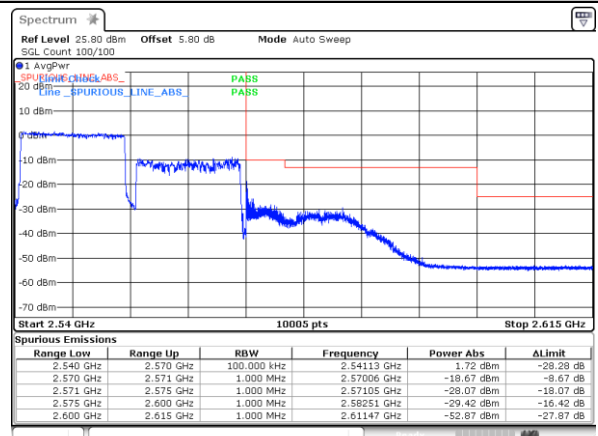
Date: 29_JAN,2021 21:10:43

Lowest Band Edge / Full RB



Date: 29_JAN,2021 00:16:51

Highest Band Edge / Full RB



Date: 29_JAN,2021 21:08:32