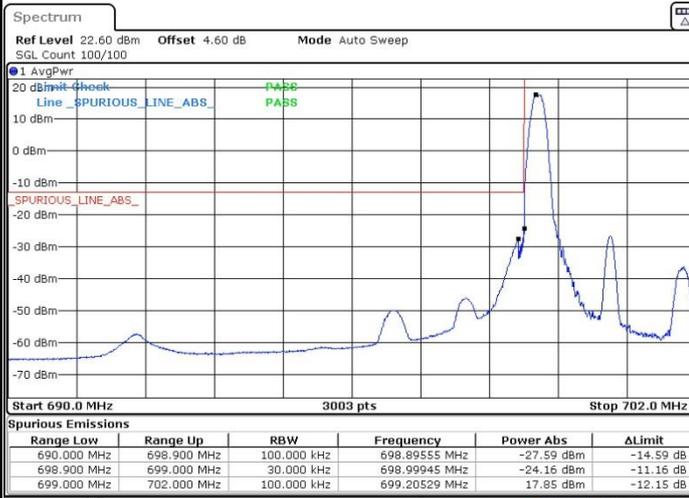




LTE Band 12 / 3MHz / 256QAM

Lowest Band Edge / 1 RB



Date: 3.NOV.2021 00:13:33

Highest Band Edge / 1 RB



Date: 3.NOV.2021 00:16:43

Lowest Band Edge / Full RB



Date: 3.NOV.2021 00:14:38

Highest Band Edge / Full RB

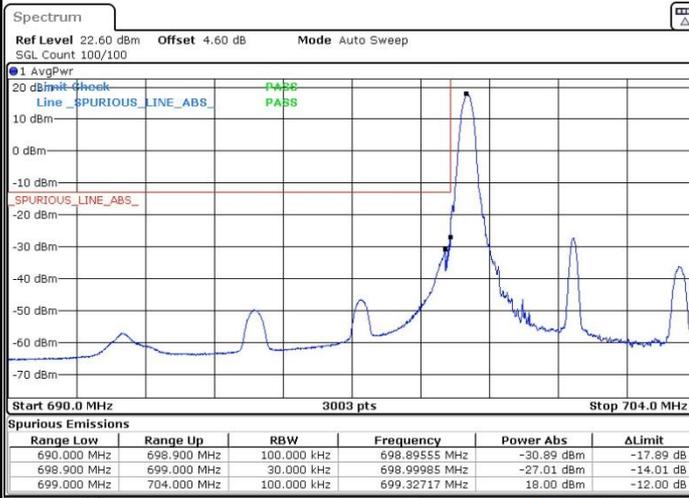


Date: 3.NOV.2021 00:15:56



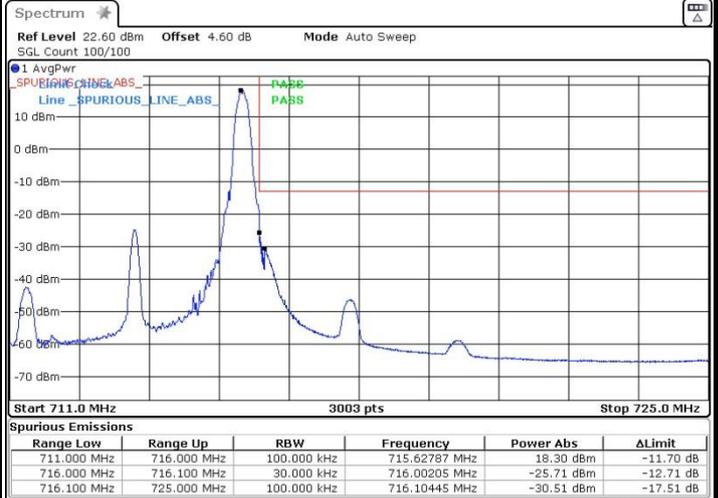
LTE Band 12 / 5MHz / 256QAM

Lowest Band Edge / 1 RB



Date: 3.NOV.2021 00:19:45

Highest Band Edge / 1 RB



Date: 3.NOV.2021 00:21:08

Lowest Band Edge / Full RB



Date: 3.NOV.2021 00:19:04

Highest Band Edge / Full RB

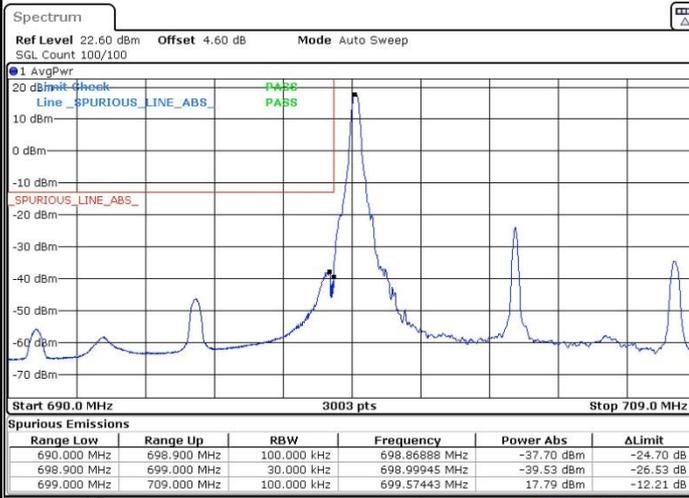


Date: 3.NOV.2021 00:22:00



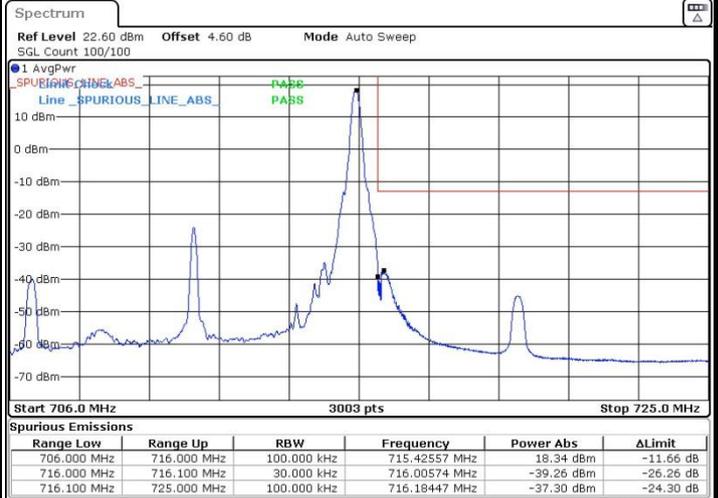
LTE Band 12 / 10MHz /256QAM

Lowest Band Edge / 1 RB



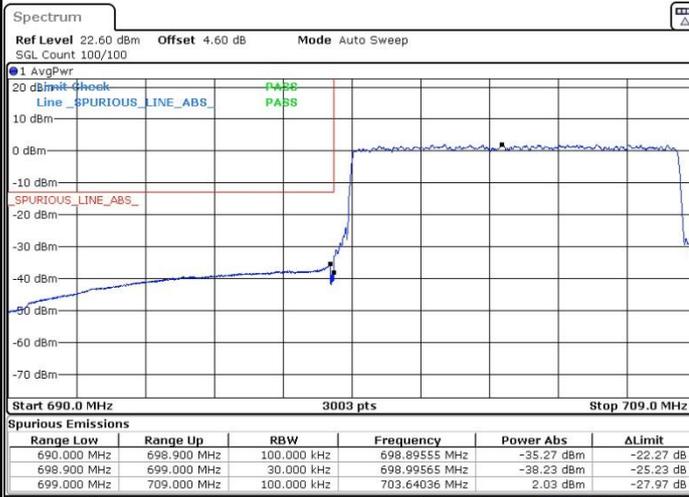
Date: 3 NOV.2021 00:25:32

Highest Band Edge / 1 RB



Date: 3 NOV.2021 00:27:17

Lowest Band Edge / Full RB



Date: 3 NOV.2021 00:24:52

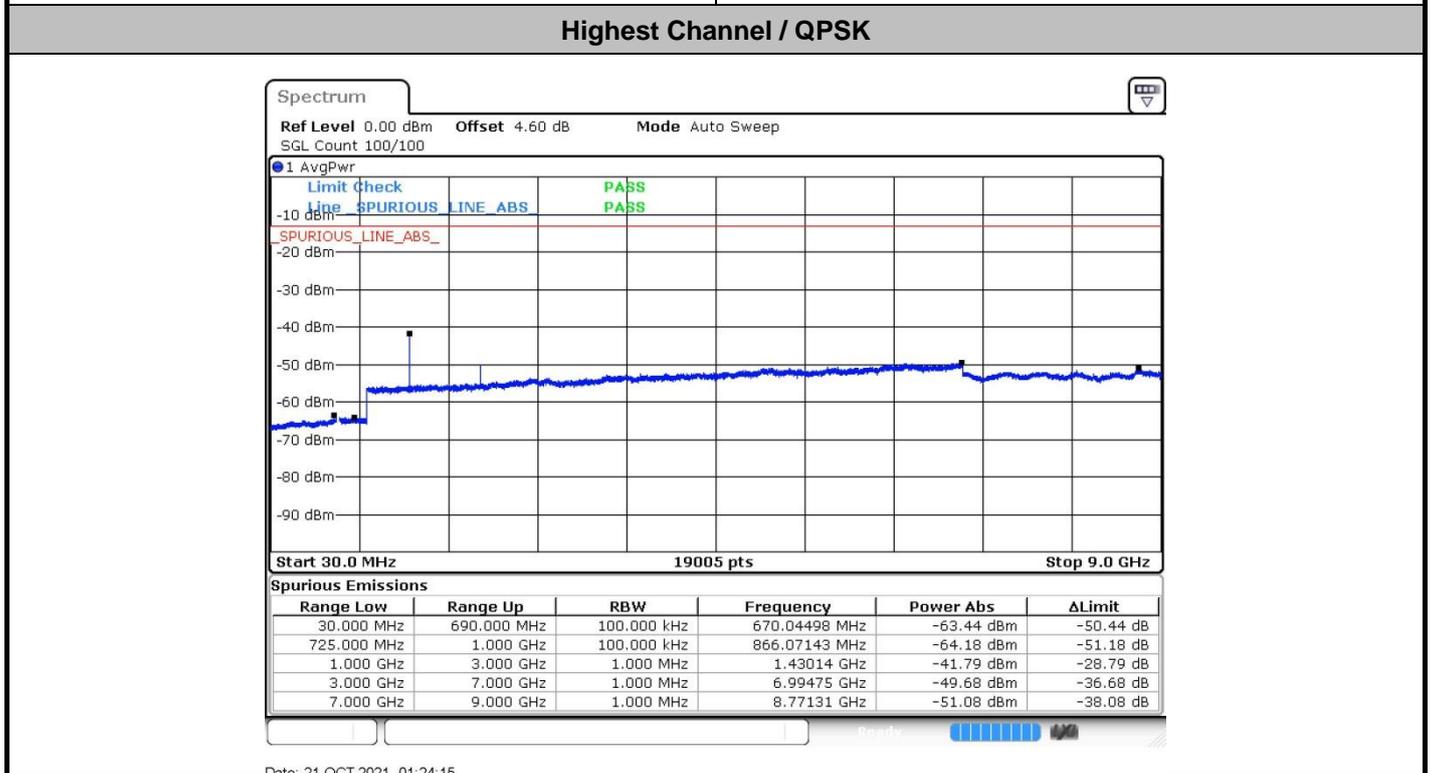
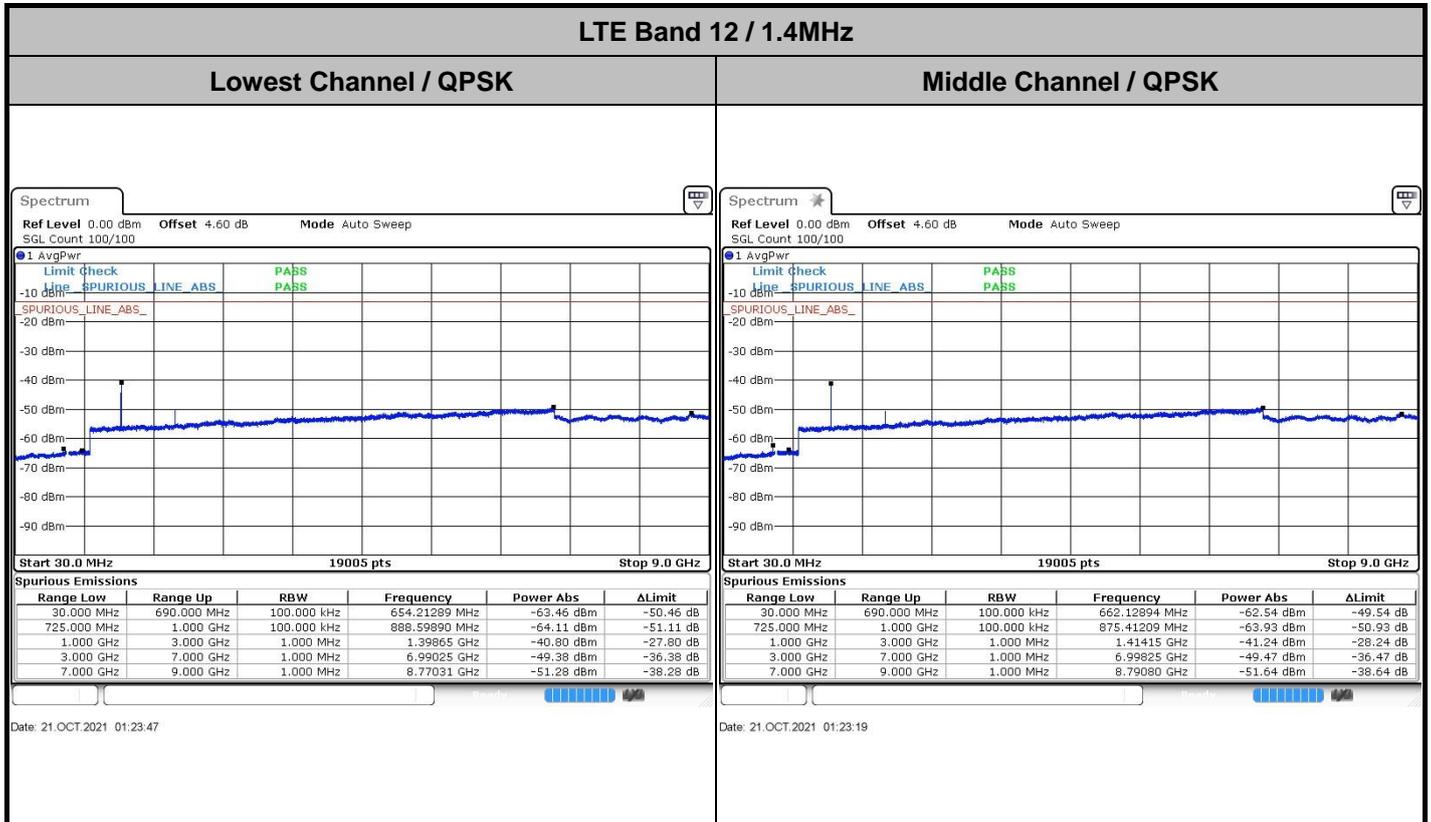
Highest Band Edge / Full RB



Date: 3 NOV.2021 00:26:34



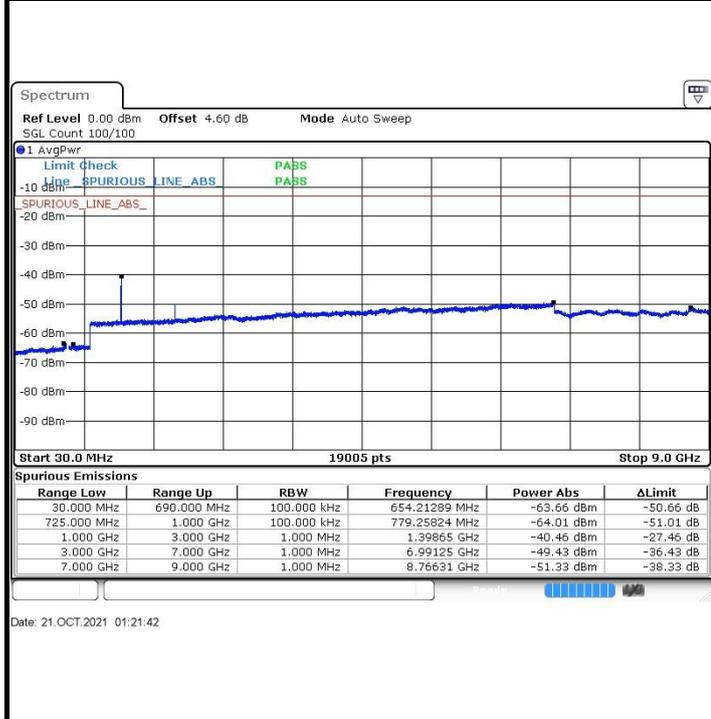
Conducted Spurious Emission



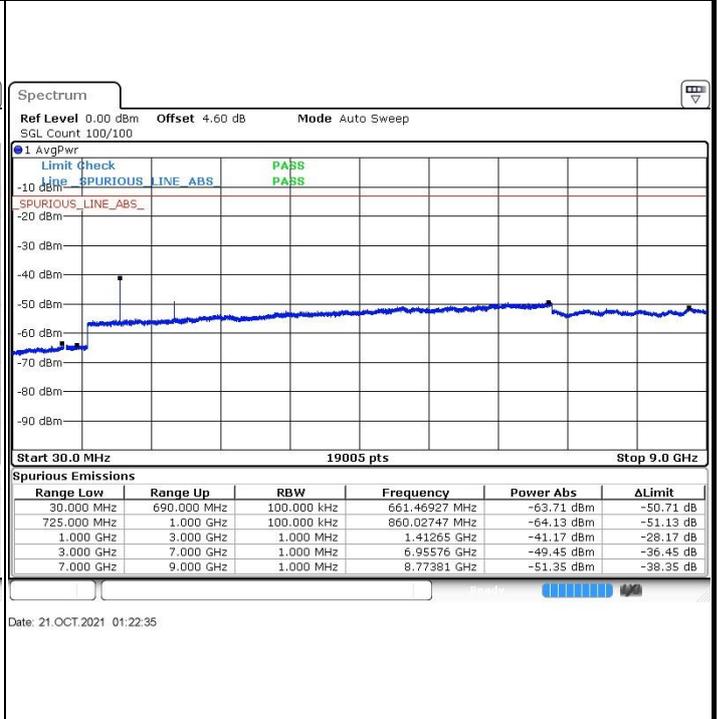


LTE Band 12 / 3MHz

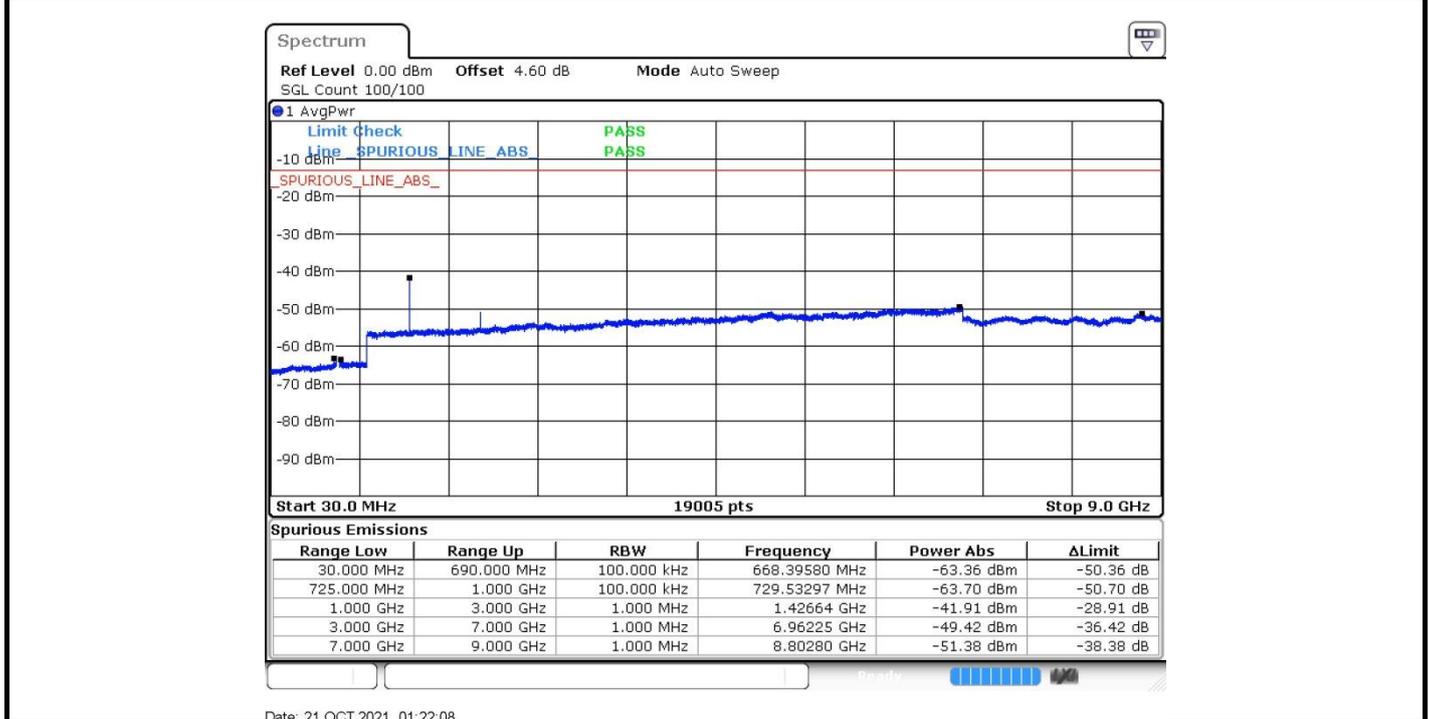
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK

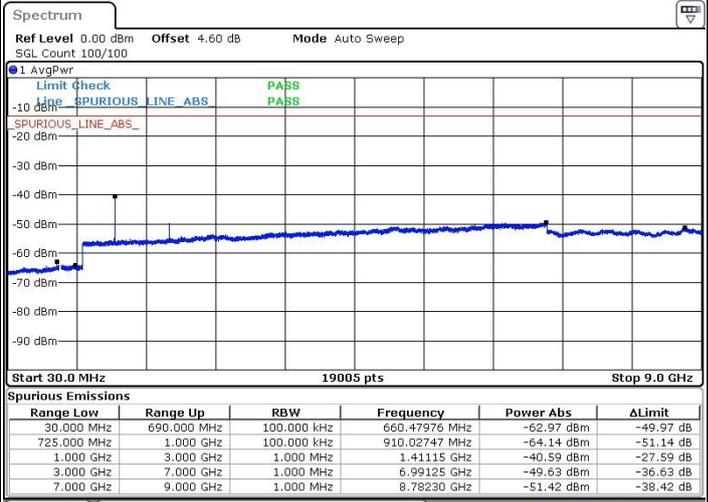
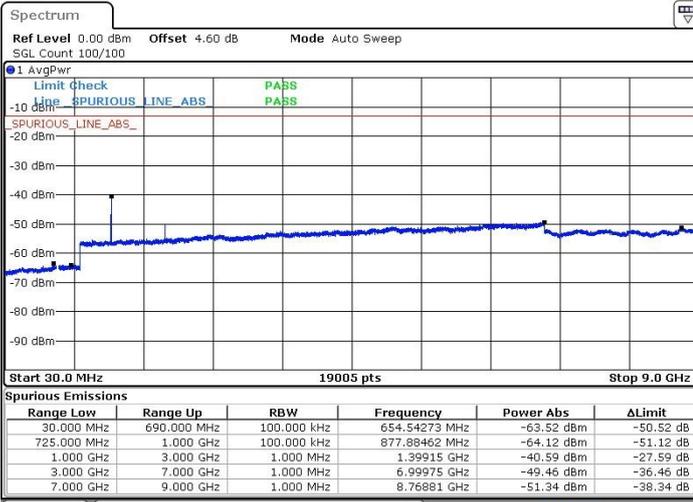




LTE Band 12 / 5MHz

Lowest Channel / QPSK

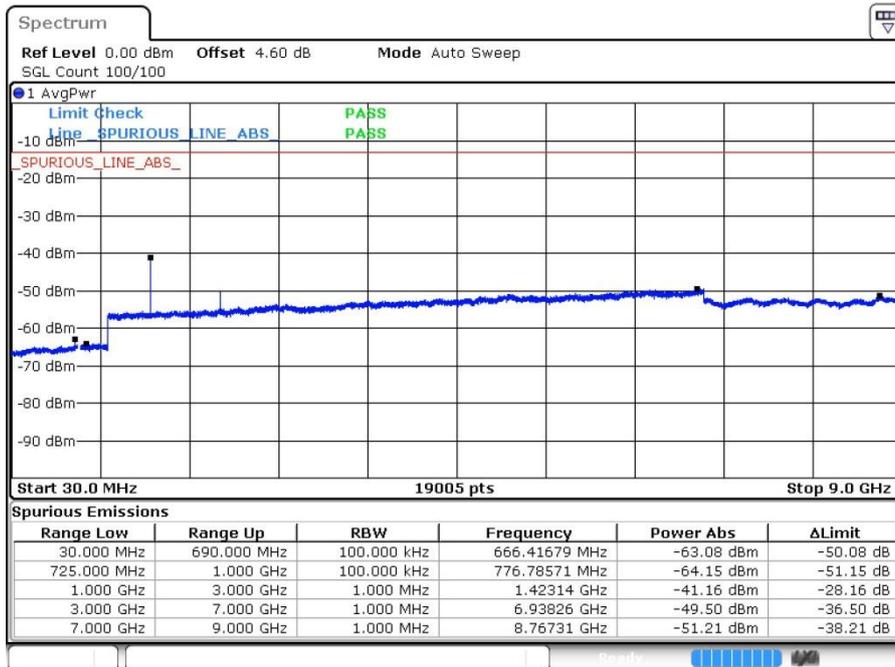
Middle Channel / QPSK



Date: 21.OCT.2021 01:19:52

Date: 21.OCT.2021 01:20:48

Highest Channel / QPSK



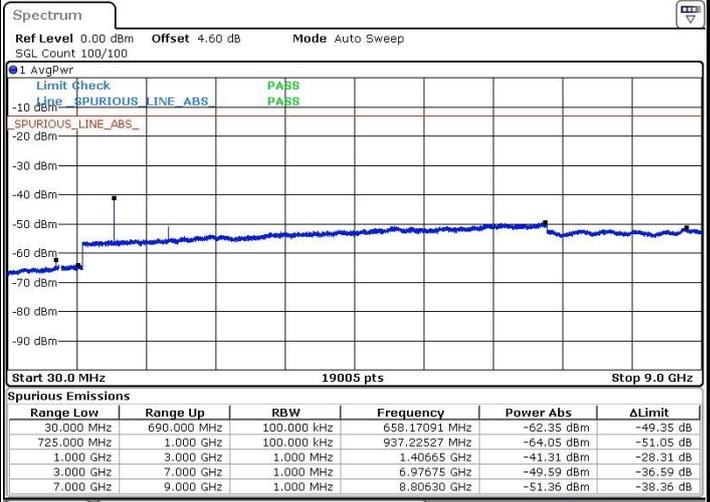
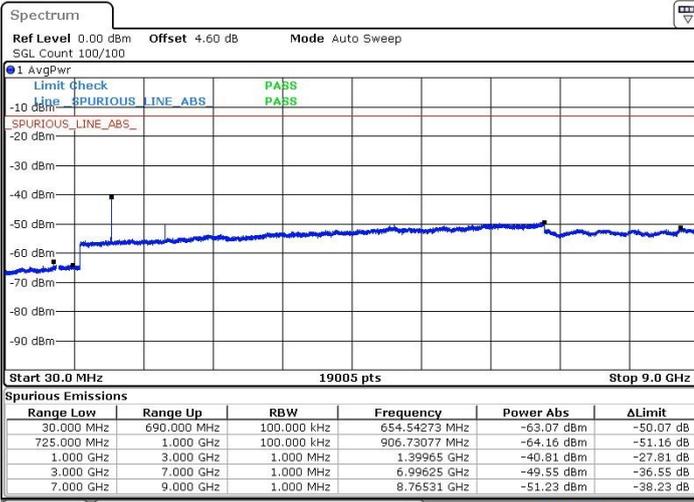
Date: 21.OCT.2021 01:20:19



LTE Band 12 / 10MHz

Lowest Channel / QPSK

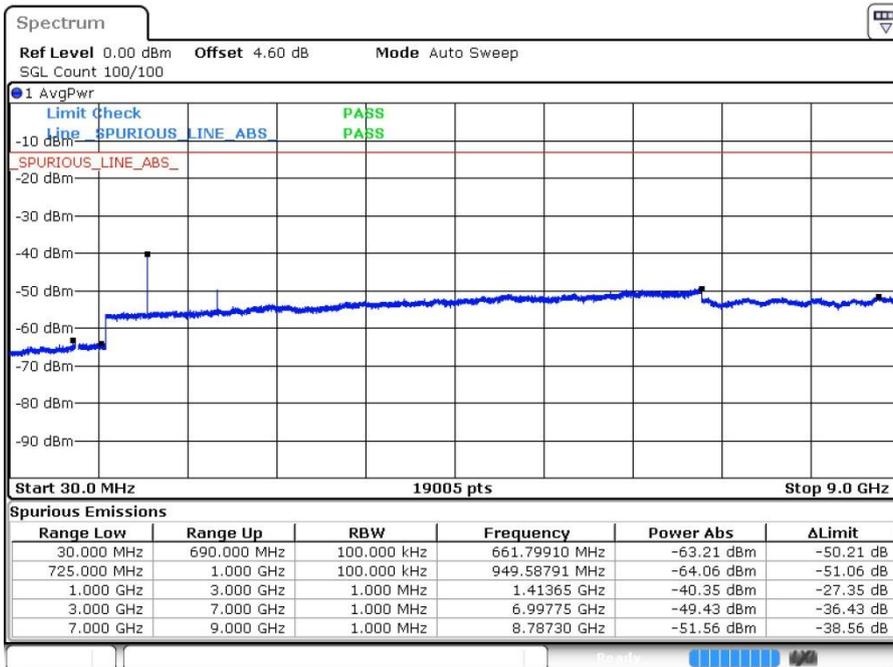
Middle Channel / QPSK



Date: 21.OCT.2021 01:17:50

Date: 21.OCT.2021 01:18:48

Highest Channel / QPSK



Date: 21.OCT.2021 01:18:21



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	0.0023	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0024	
0	Normal Voltage	0.0008	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0004	
20	Normal Voltage	0.0021	
20	Battery End Point	0.0012	

Note:

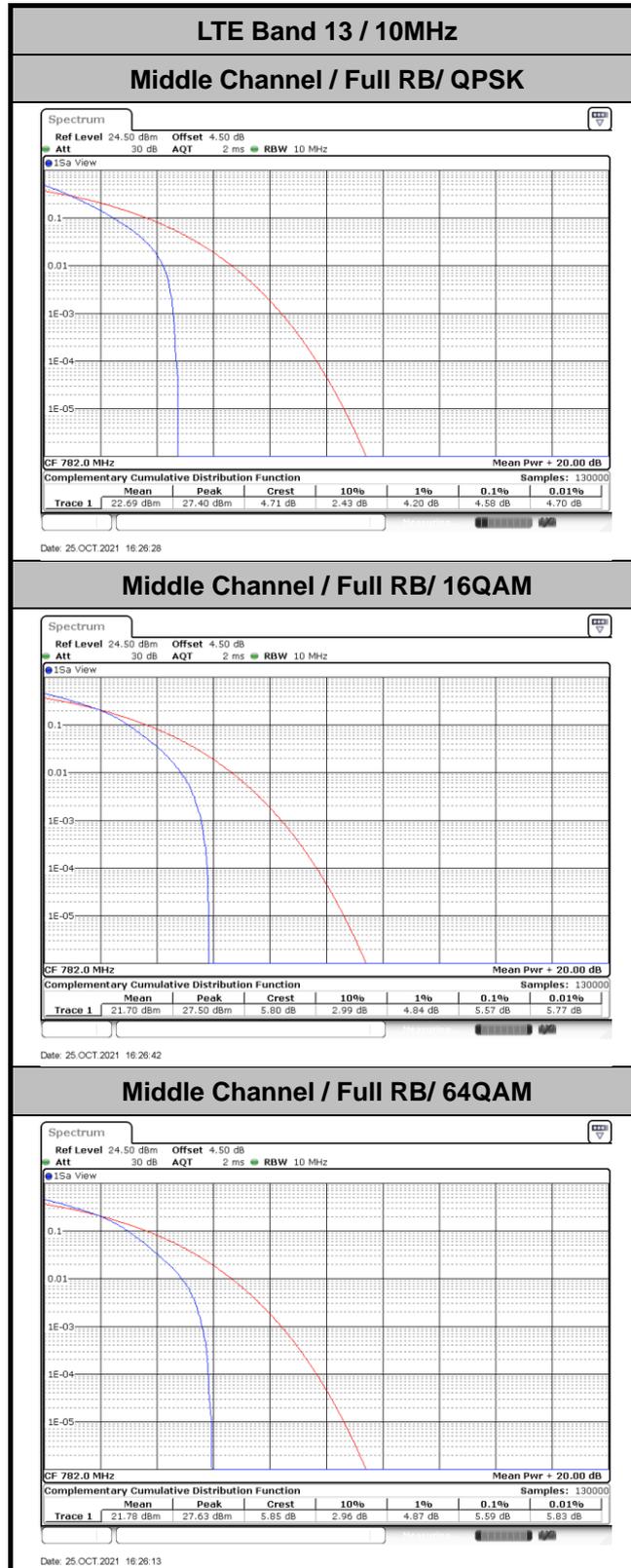
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

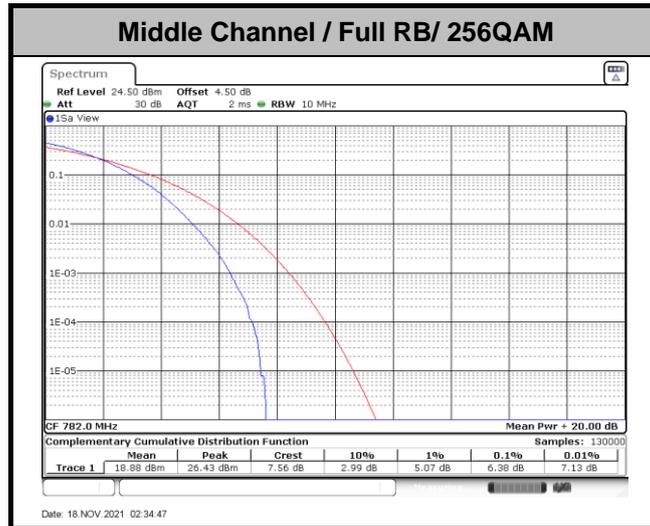


LTE Band 13

Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.58	5.57	5.59	6.38	PASS

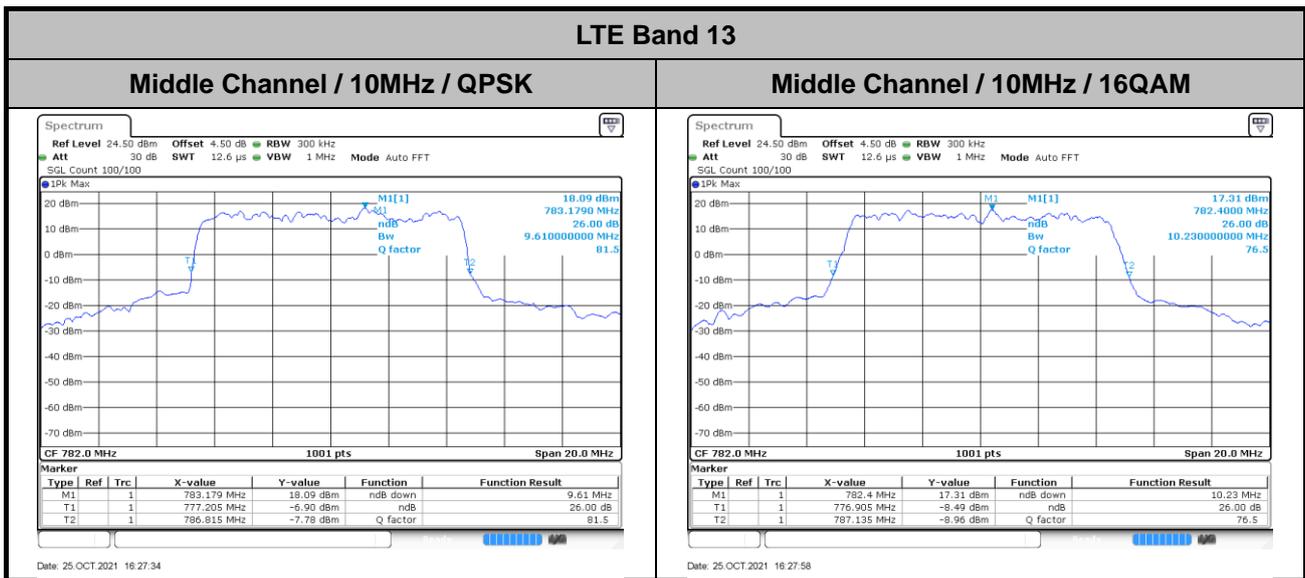






26dB Bandwidth

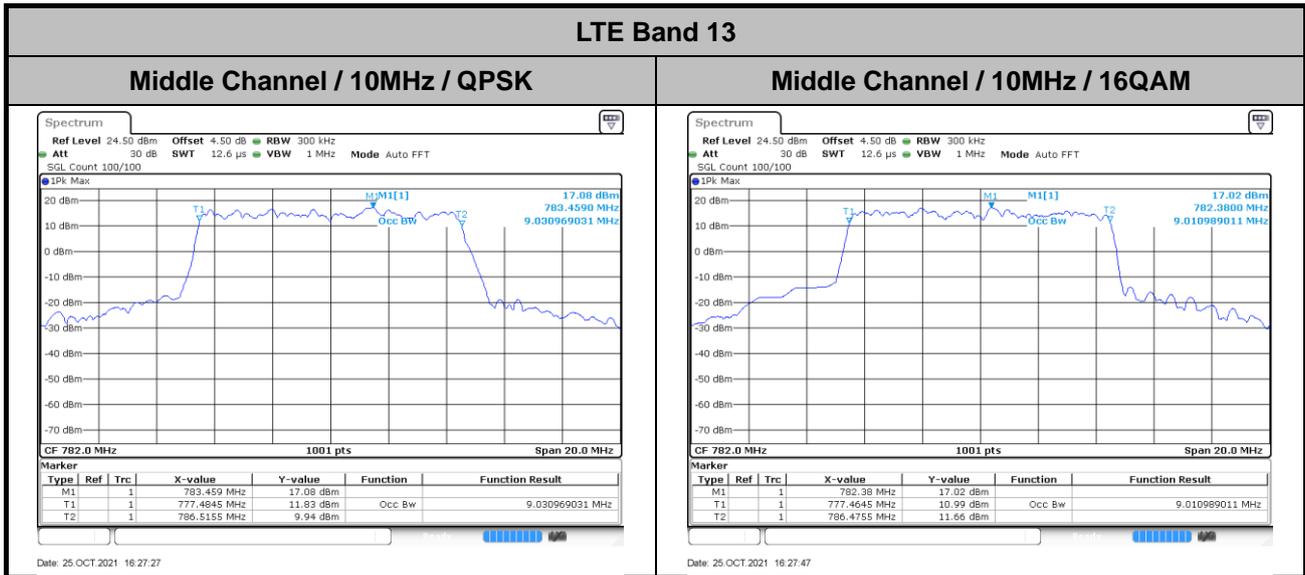
Mode	LTE Band 13 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.61	10.23





Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.03	9.01

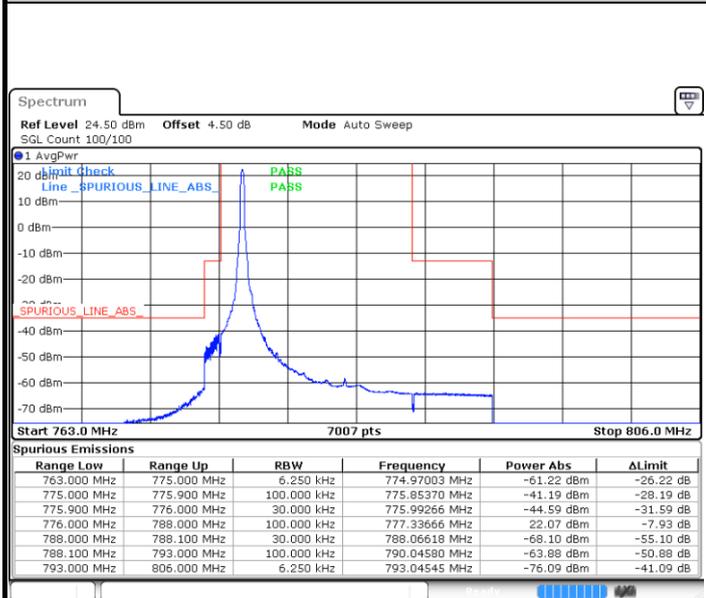




Conducted Band Edge

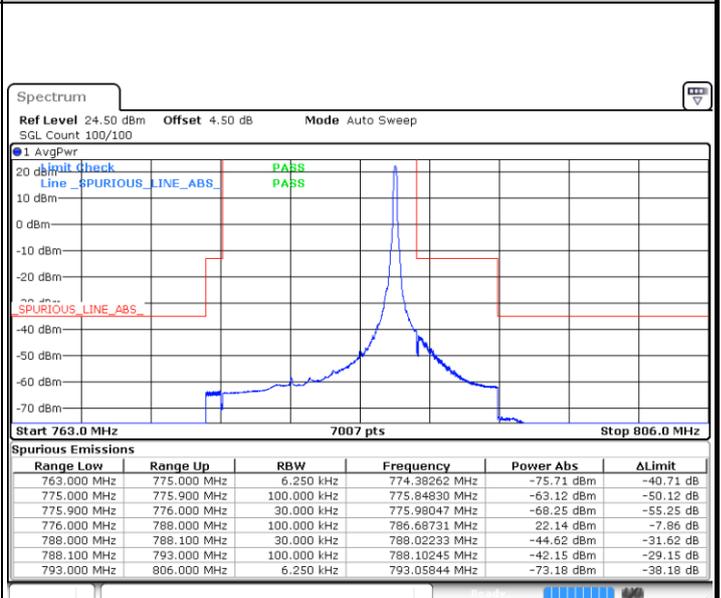
LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



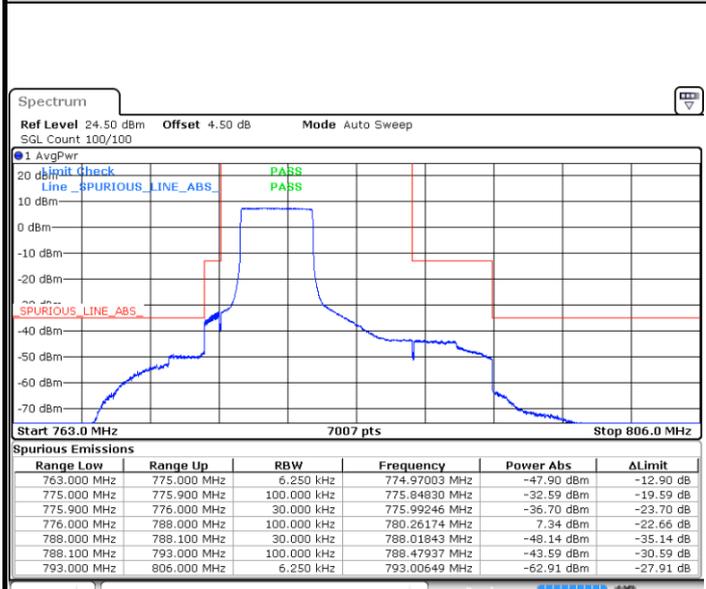
Date: 25.OCT.2021 15:58:55

Highest Band Edge / 1 RB



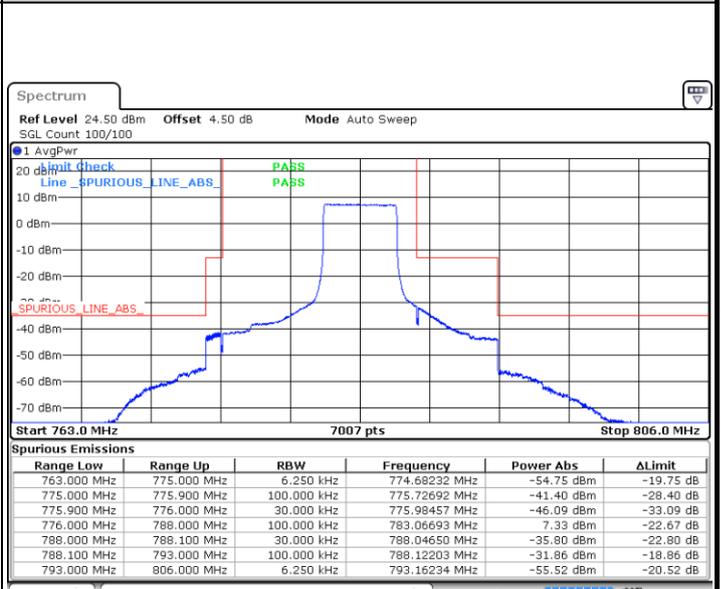
Date: 25.OCT.2021 16:01:41

Lowest Band Edge / Full RB



Date: 25.OCT.2021 15:52:12

Highest Band Edge / Full RB



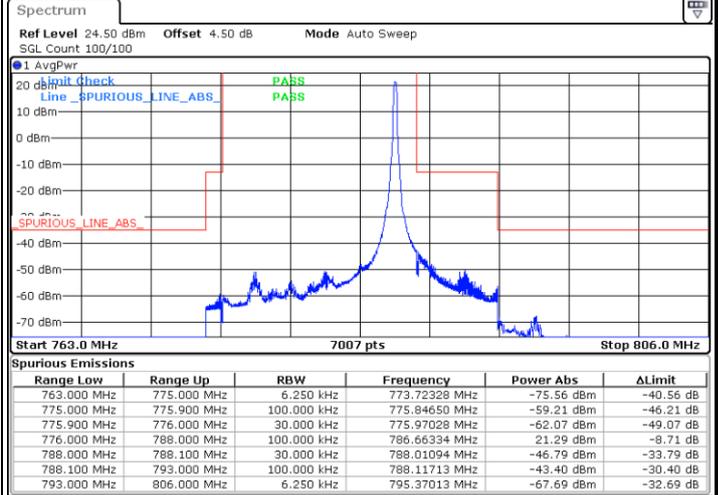
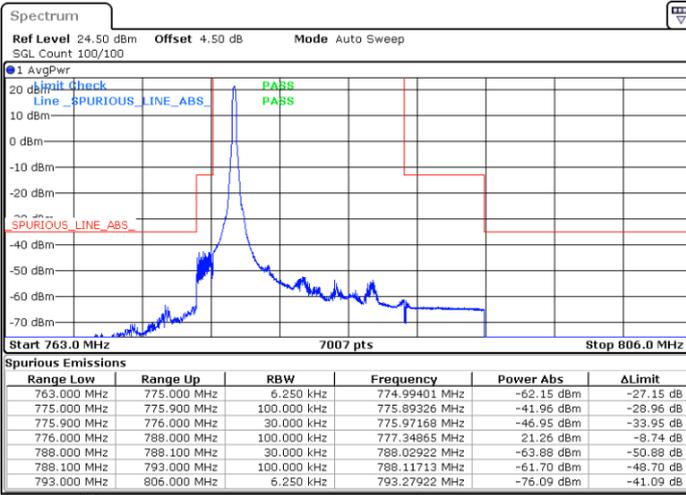
Date: 25.OCT.2021 16:09:01



LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB

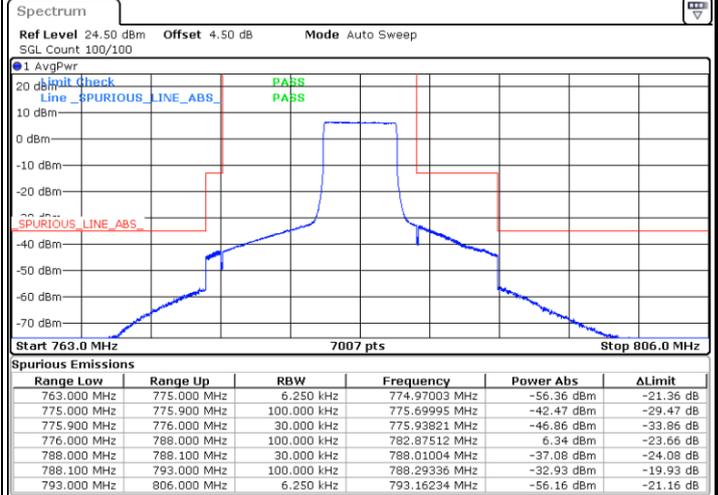
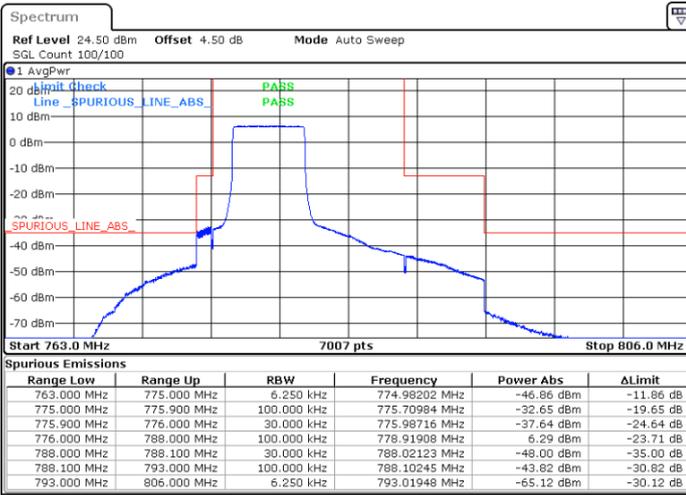


Date: 25.OCT.2021 15:58:39

Date: 25.OCT.2021 16:02:54

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



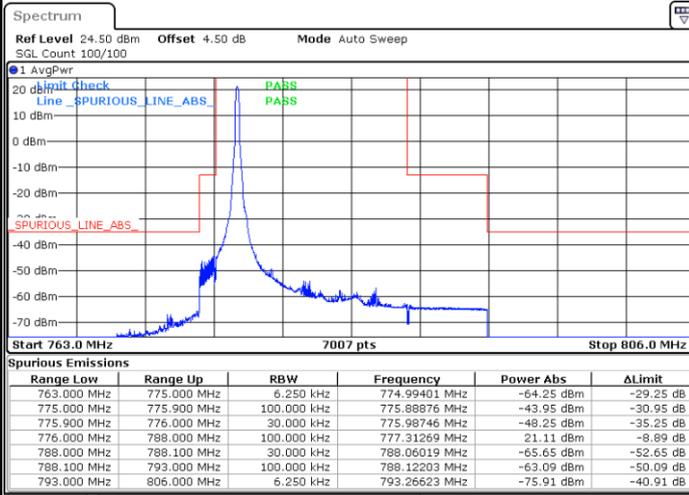
Date: 25.OCT.2021 15:53:26

Date: 25.OCT.2021 16:07:37



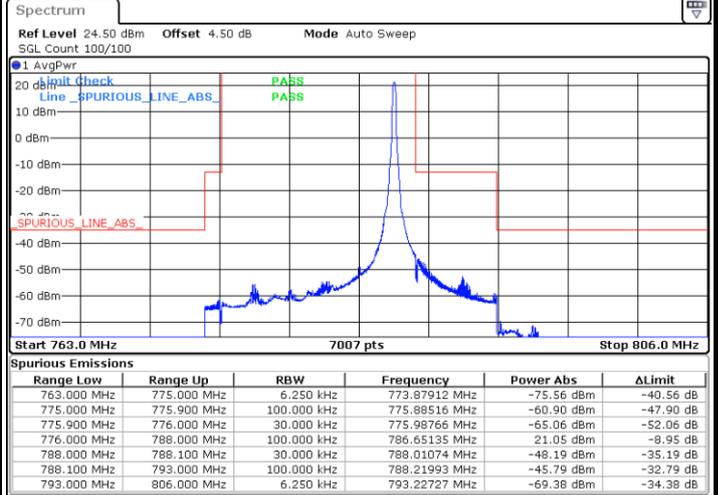
LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1RB



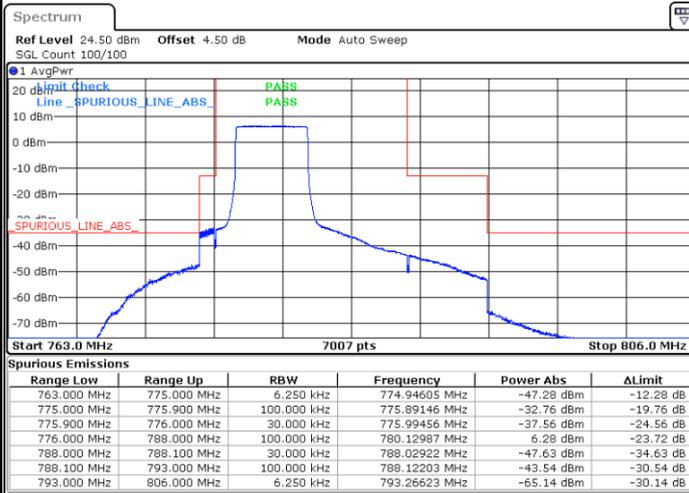
Date: 25.OCT.2021 15:57:29

Highest Band Edge / 1 RB



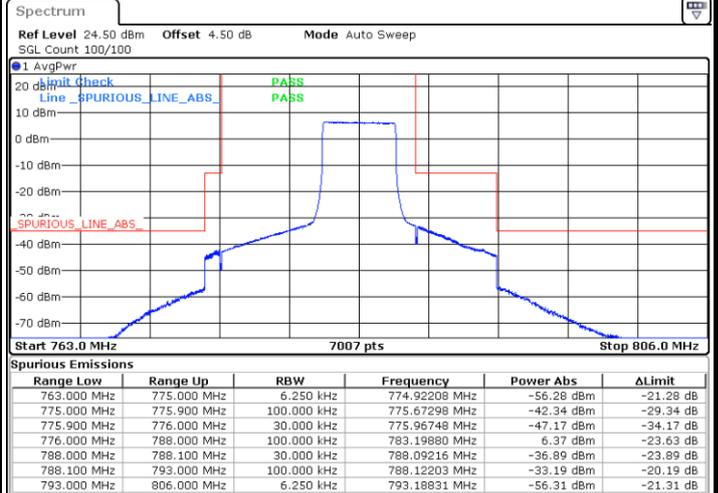
Date: 25.OCT.2021 16:04:10

Lowest Band Edge / Full RB



Date: 25.OCT.2021 15:55:32

Highest Band Edge / Full RB



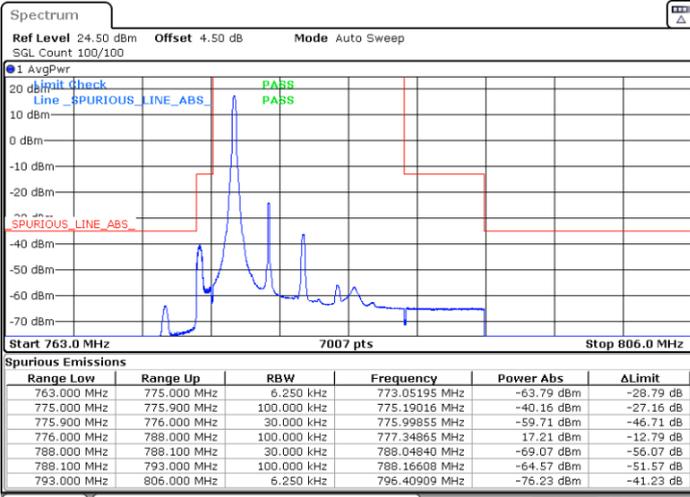
Date: 25.OCT.2021 16:06:25



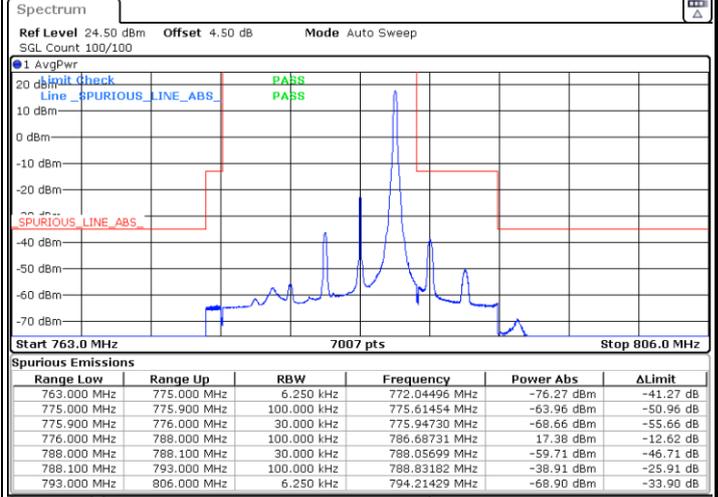
LTE Band 13 / 5MHz / 256QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB



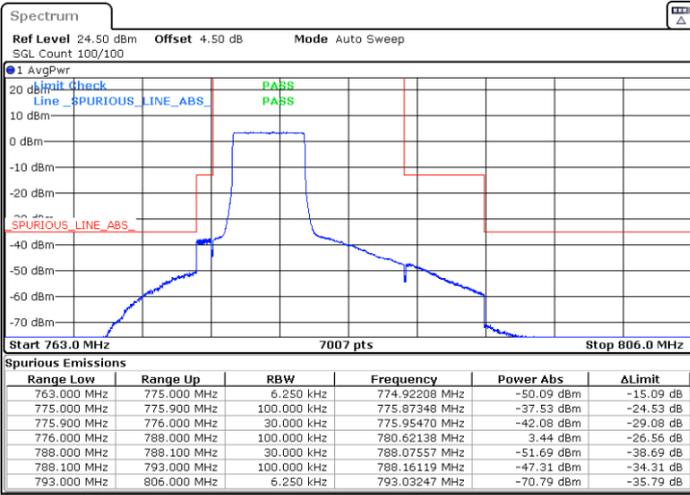
Date: 18 NOV 2021 02:17:27



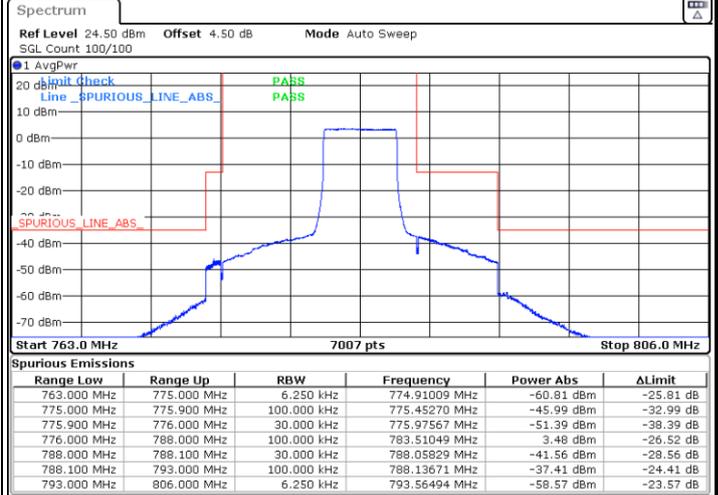
Date: 18 NOV 2021 02:22:47

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 18 NOV 2021 02:18:50



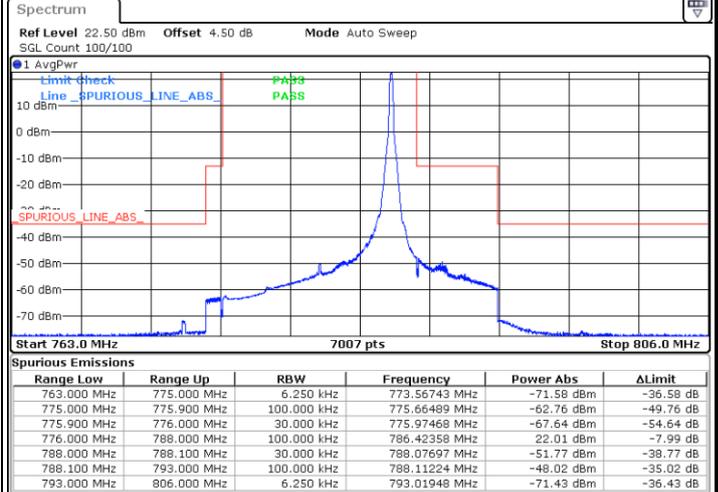
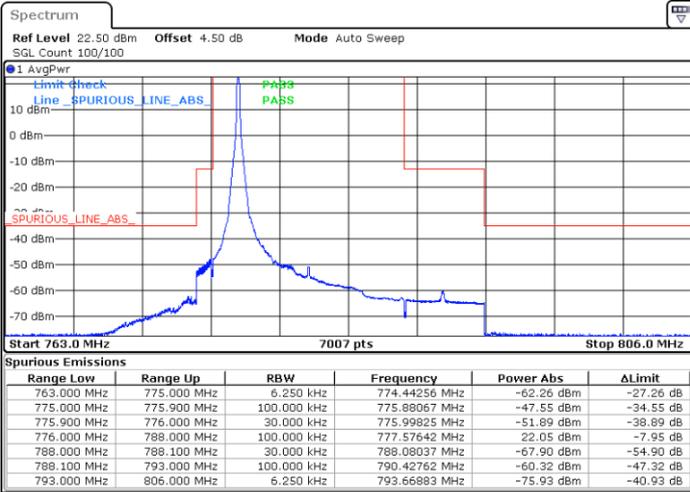
Date: 18 NOV 2021 02:20:38



LTE Band 13 / 10MHz / QPSK

middle Band Edge / 1 RB

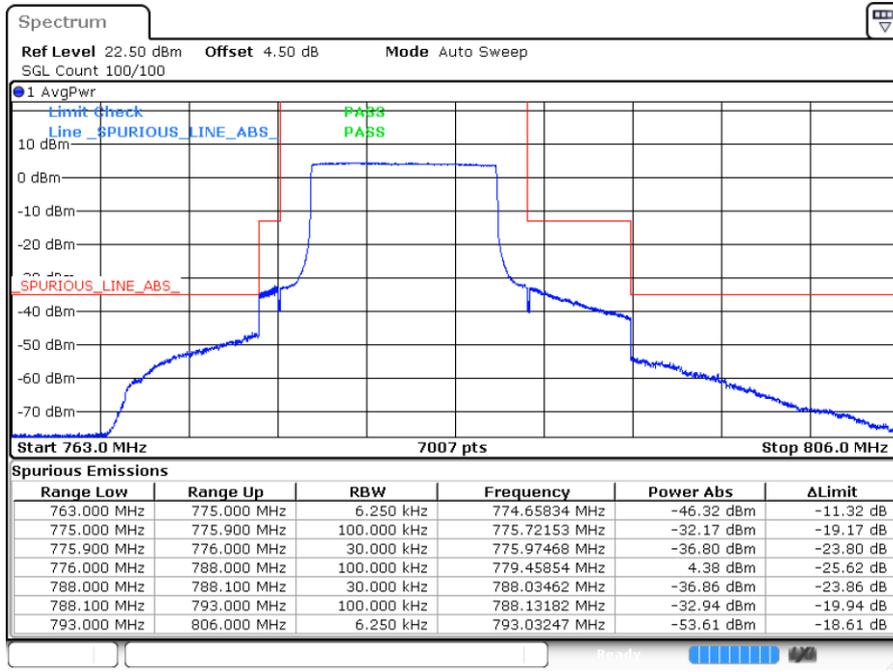
middle Band Edge / 1 RB



Date: 25.OCT.2021 16:20:23

Date: 25.OCT.2021 16:21:38

Middle Band Edge / Full RB

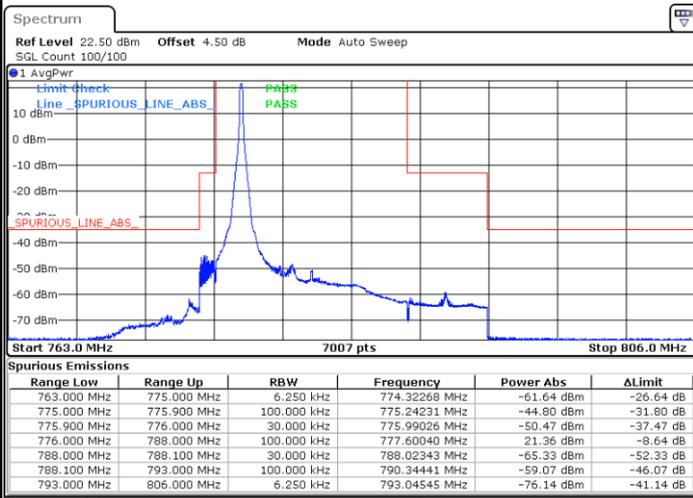


Date: 25.OCT.2021 16:12:49



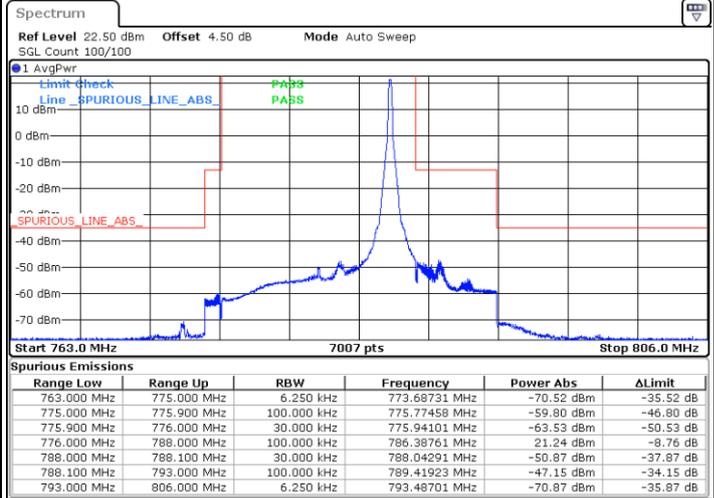
LTE Band 13 / 10MHz / 16QAM

middle Band Edge / 1 RB



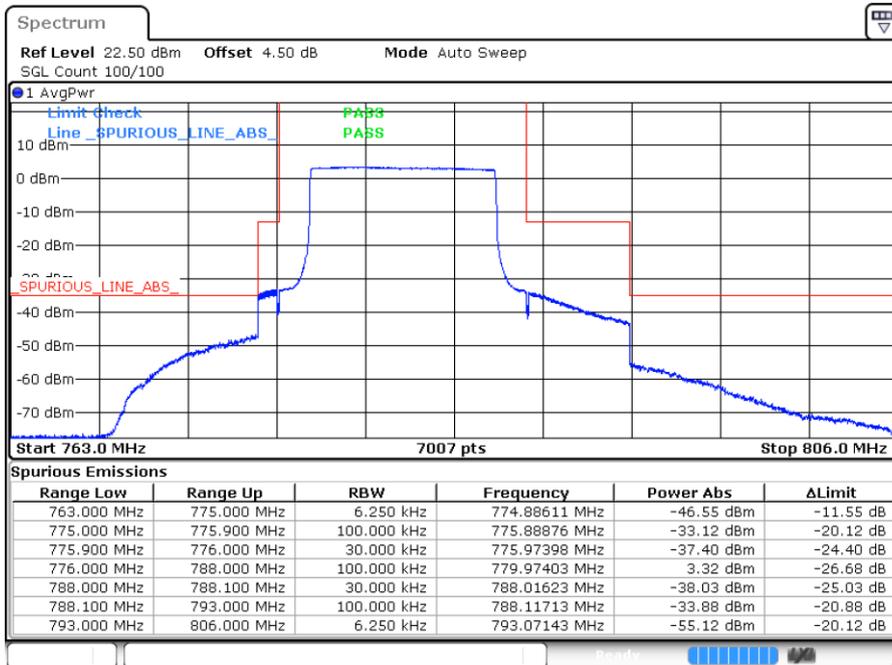
Date: 25.OCT.2021 16:18:57

middle Band Edge / 1 RB



Date: 25.OCT.2021 16:22:55

middle Band Edge / Full RB

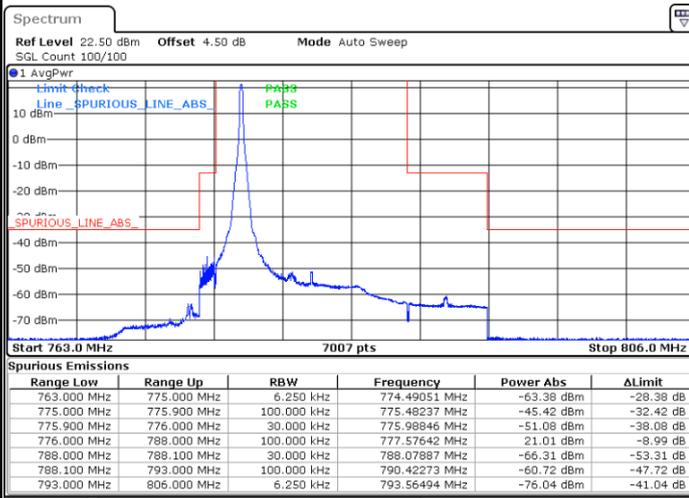


Date: 25.OCT.2021 16:14:35



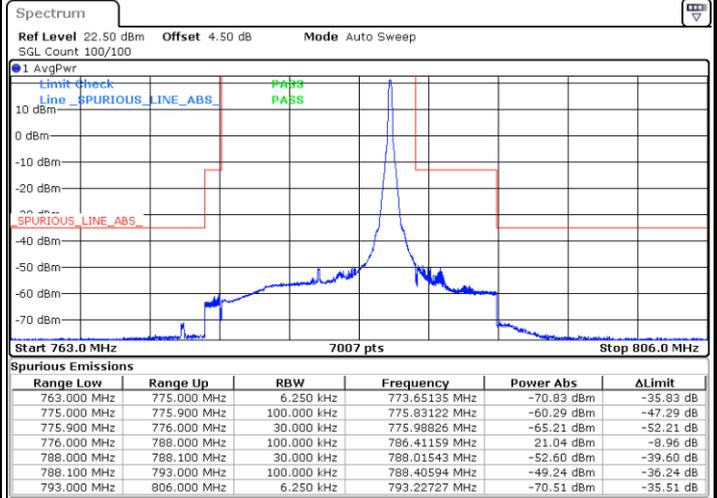
LTE Band 13 / 10MHz / 64QAM

middle Band Edge / 1 RB



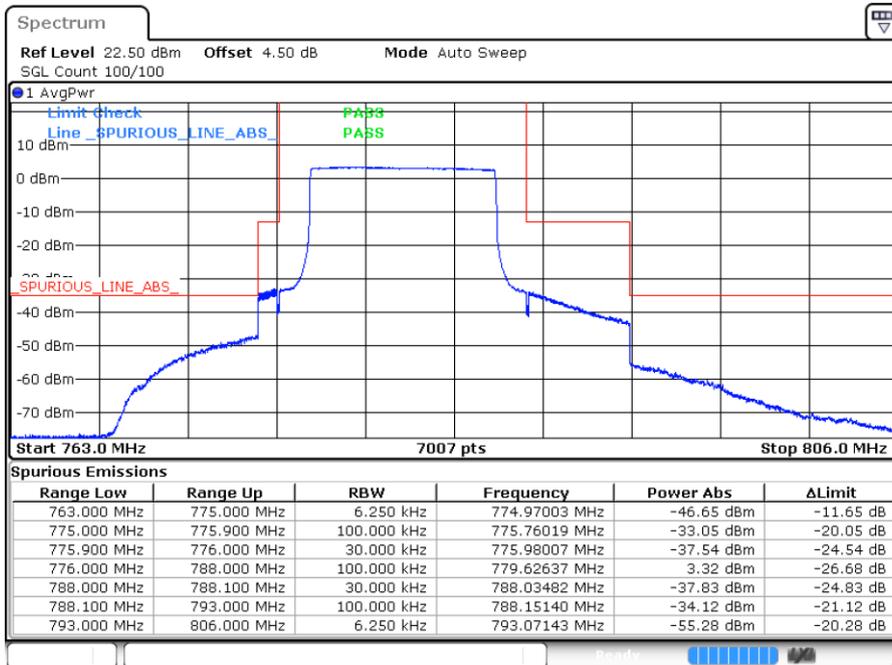
Date: 25.OCT.2021 16:17:29

middle Band Edge / 1 RB



Date: 25.OCT.2021 16:24:19

middle Band Edge / Full RB

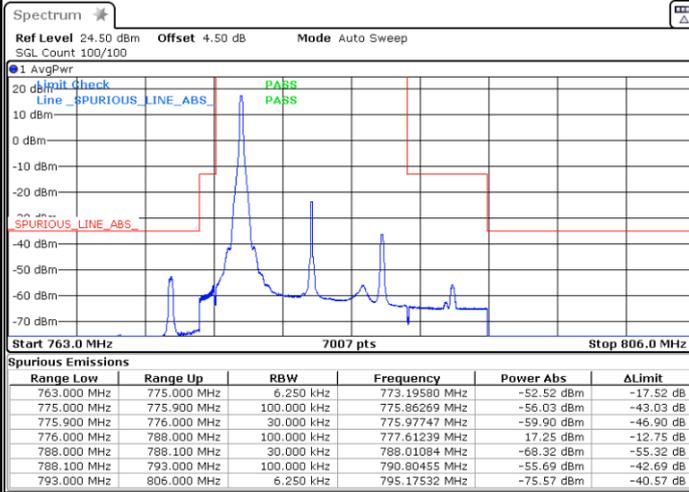


Date: 25.OCT.2021 16:16:02



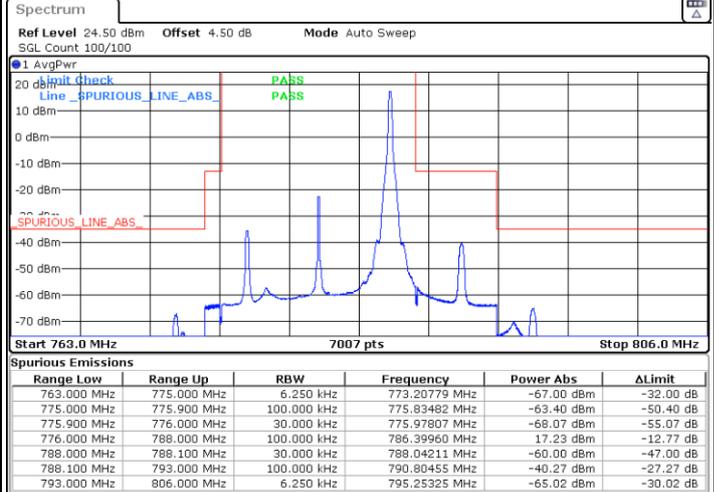
LTE Band 13 / 10MHz / 256QAM

middle Band Edge / 1 RB



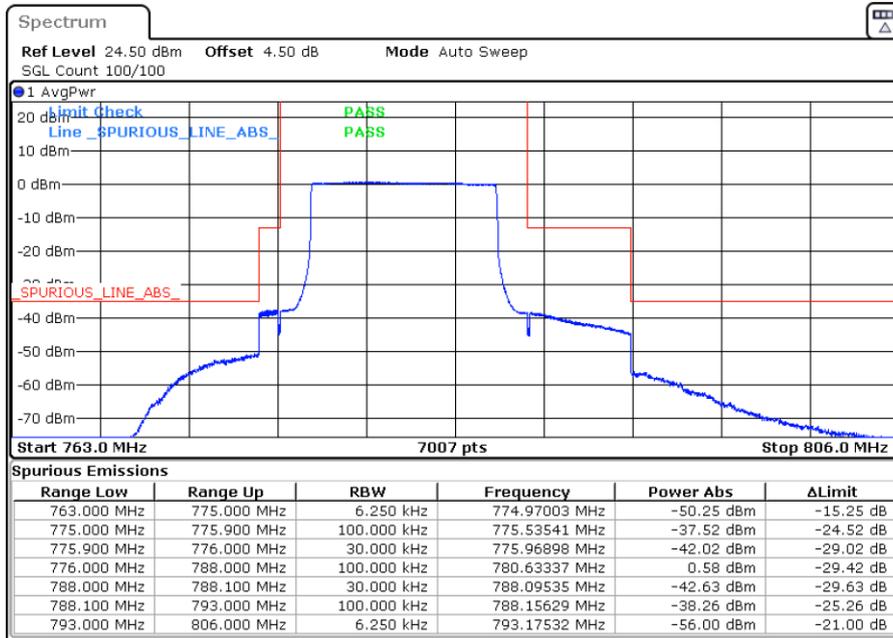
Date: 18 NOV 2021 02:29:16

middle Band Edge / 1 RB



Date: 18 NOV 2021 02:30:33

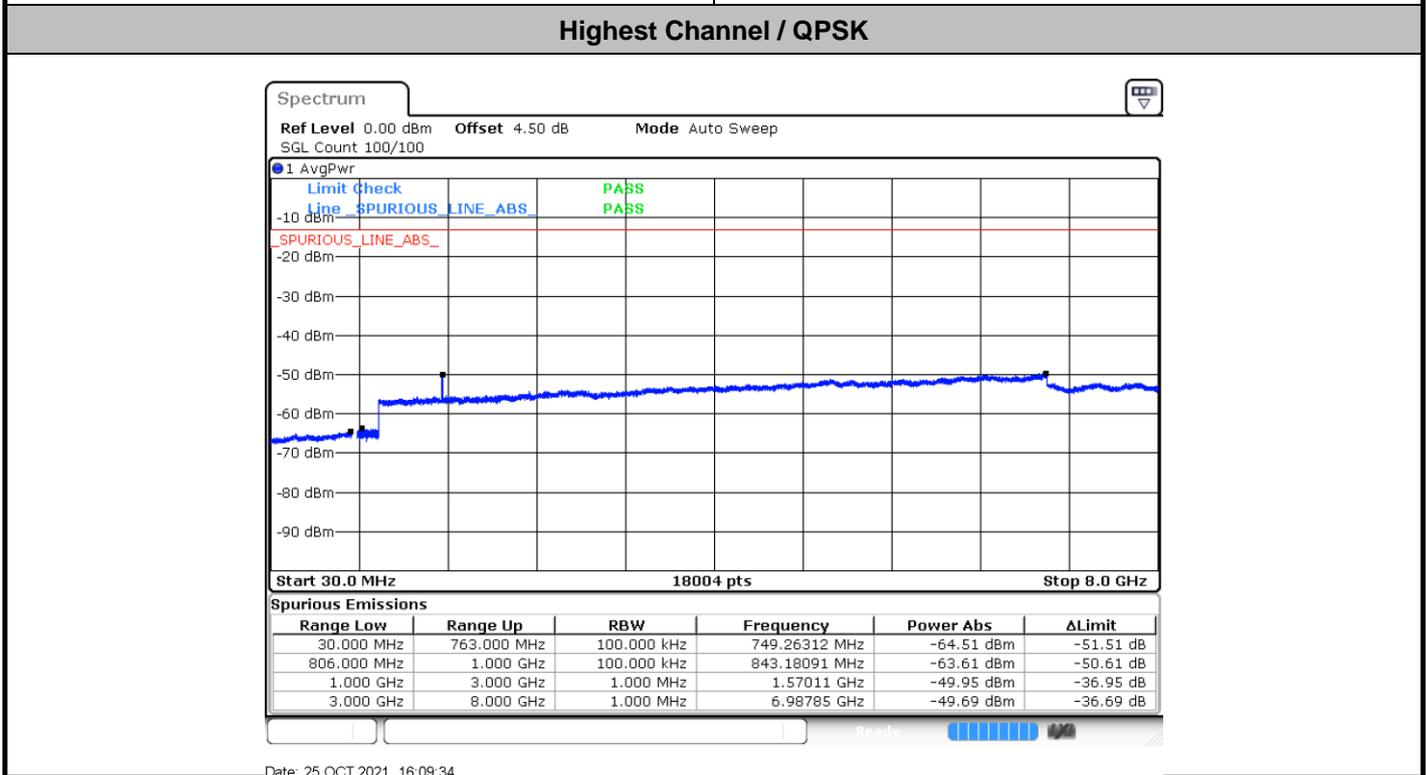
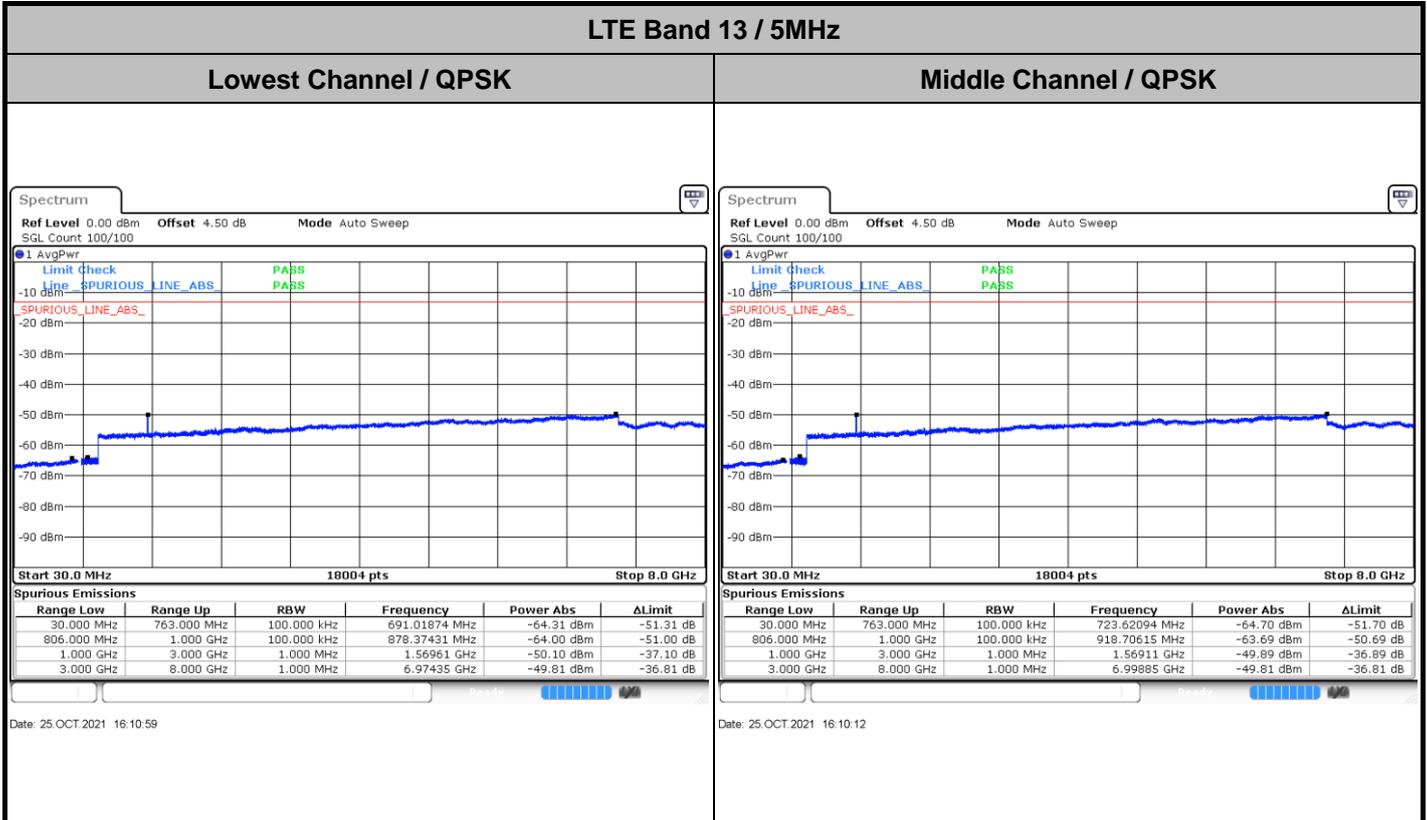
middle Band Edge / Full RB



Date: 18 NOV 2021 02:34:36



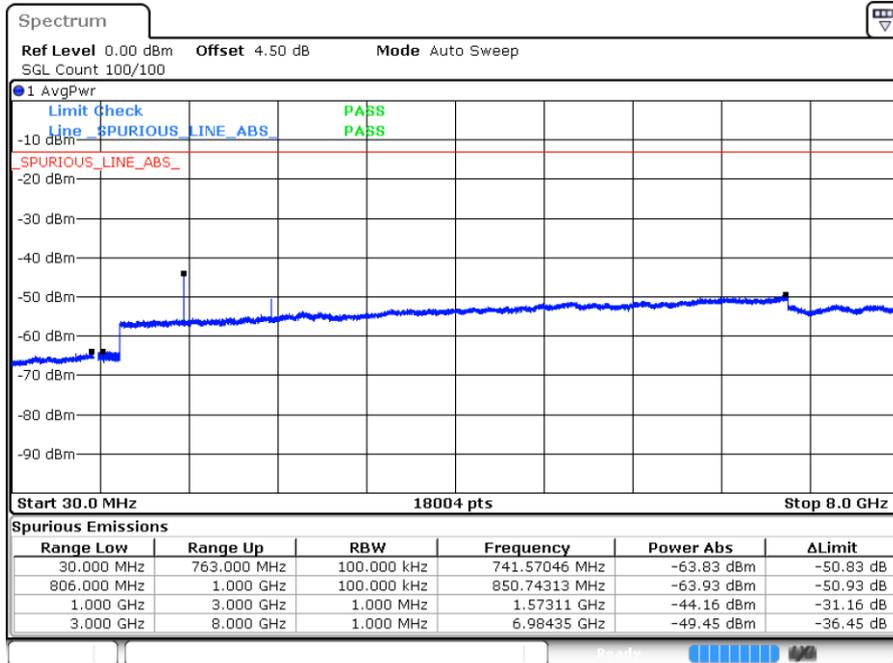
Conducted Spurious Emission





LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 25.OCT.2021 16:24:57



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	0.0019	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0047	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0054	
0	Normal Voltage	0.0063	
-10	Normal Voltage	0.0010	
-20	Normal Voltage	0.0058	
-30	Normal Voltage	0.0066	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0009	
20	Battery End Point	0.0022	

Note:

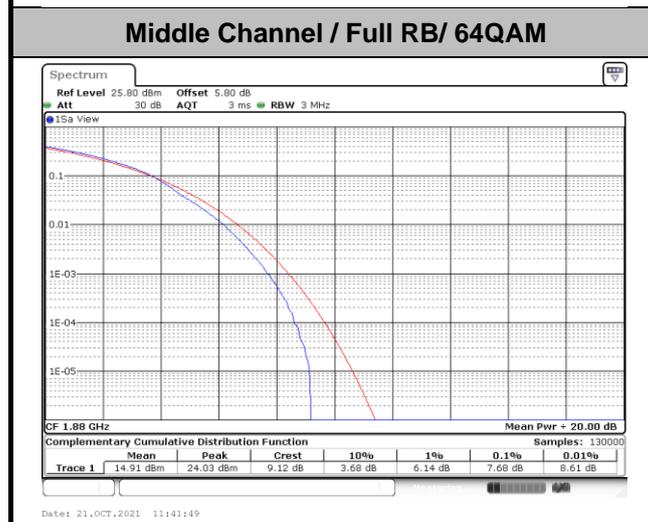
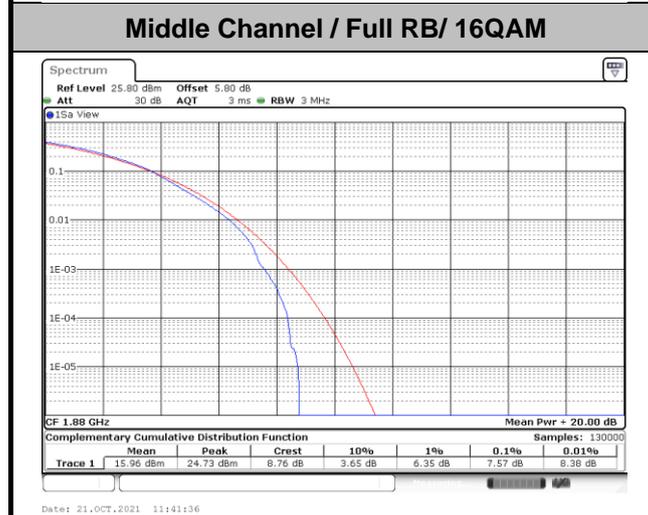
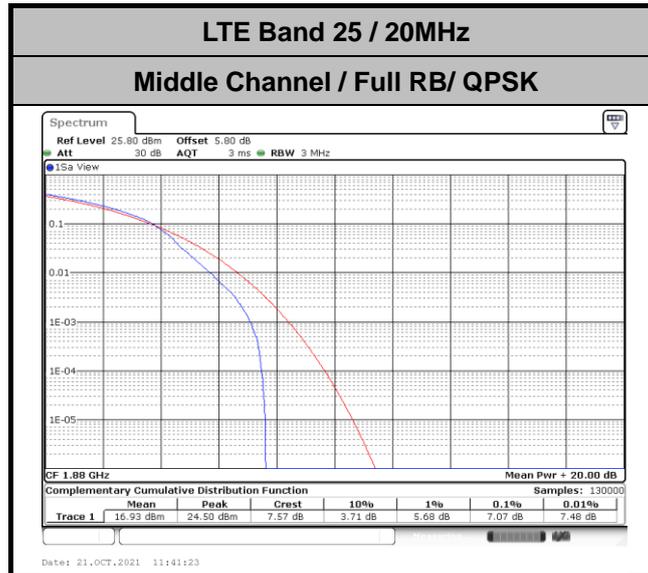
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

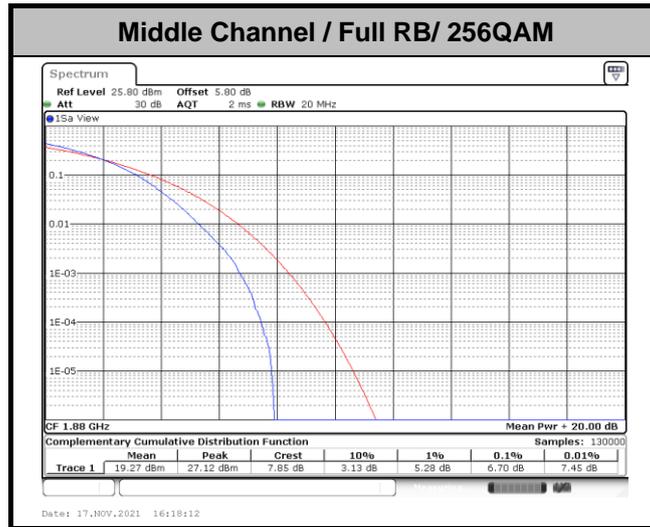


LTE Band 25

Peak-to-Average Ratio

Mode	LTE Band 25 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	7.07	7.57	7.68	6.70	PASS

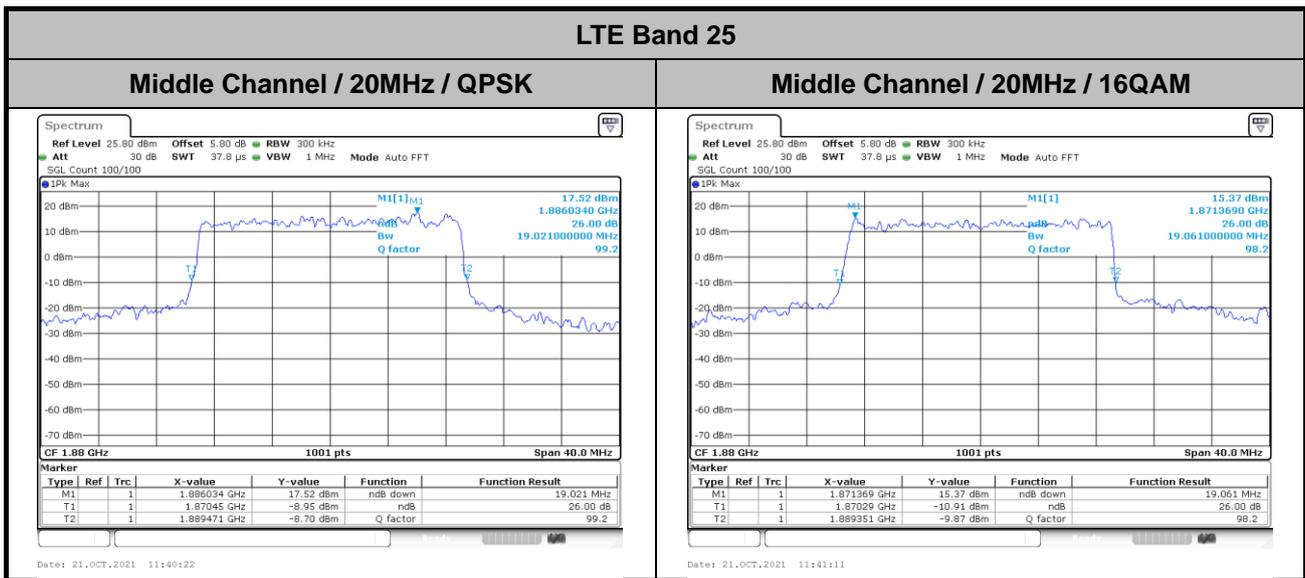






26dB Bandwidth

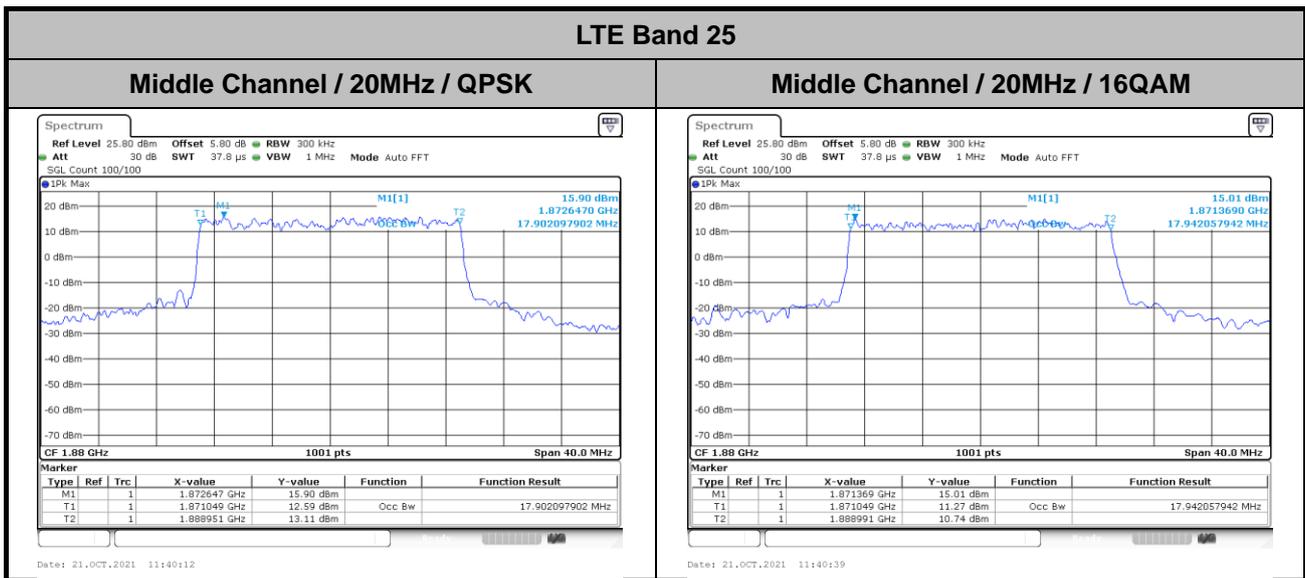
Mode	LTE Band 25 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	19.02	19.06





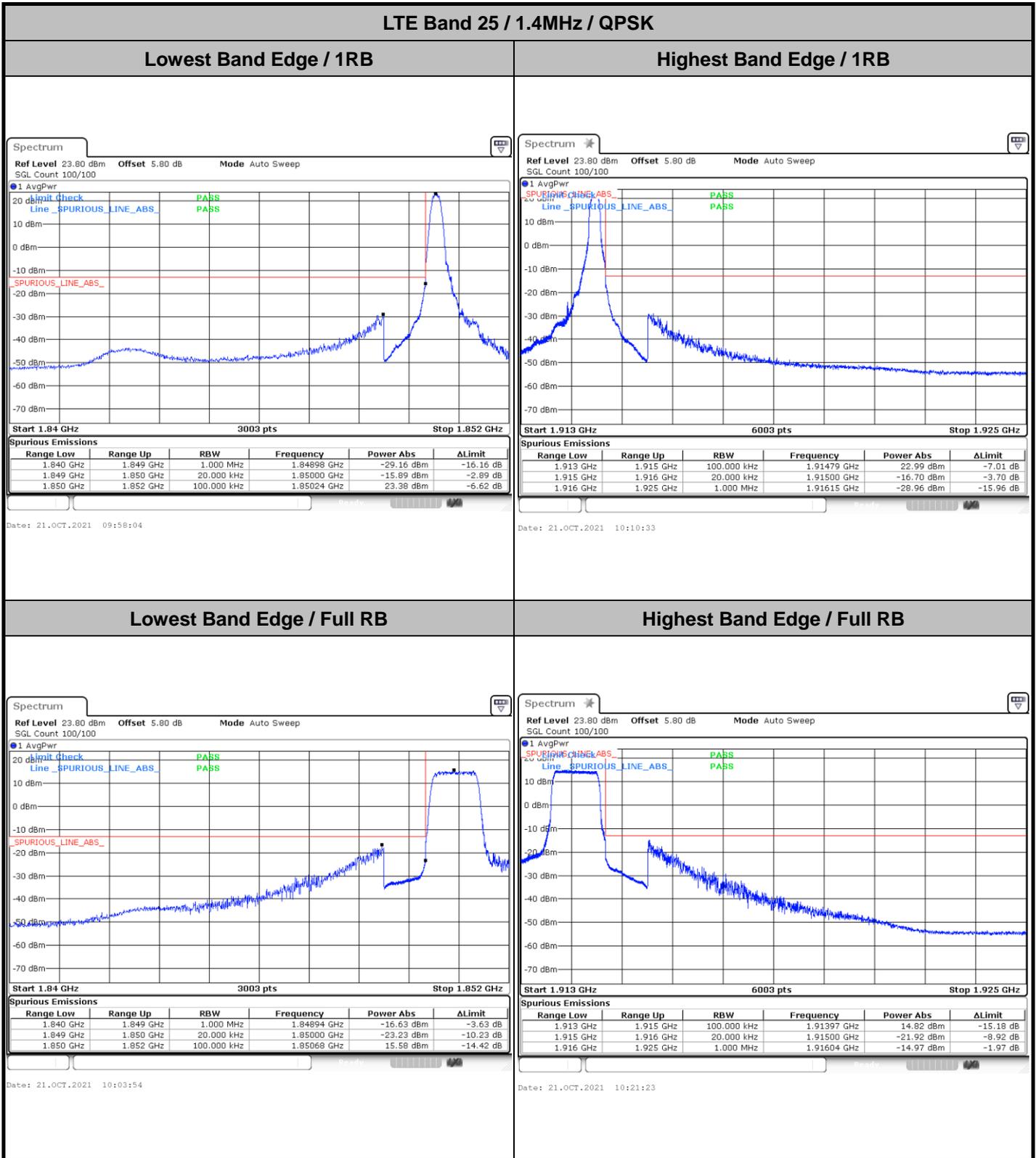
Occupied Bandwidth

Mode	LTE Band 25 : 99%OBW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.90	17.94





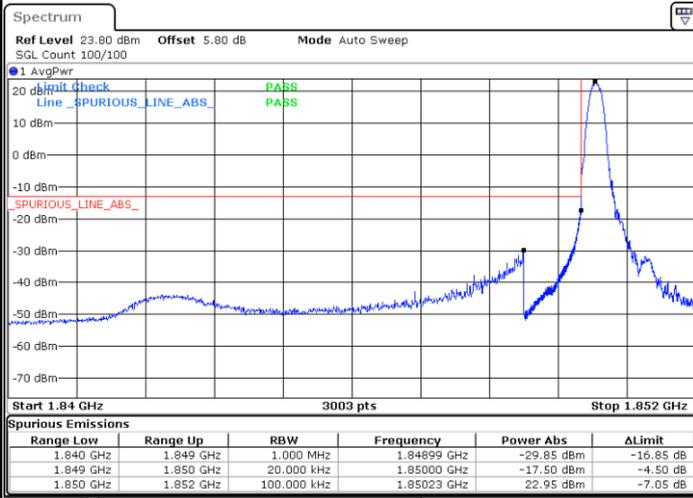
Conducted Band Edge





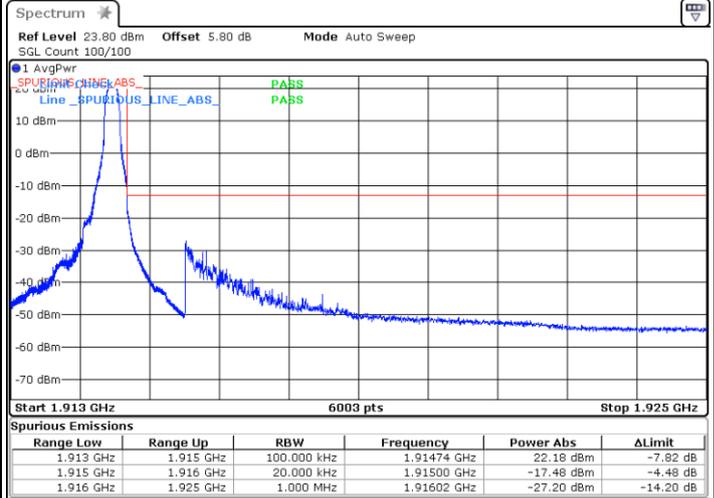
LTE Band 25 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



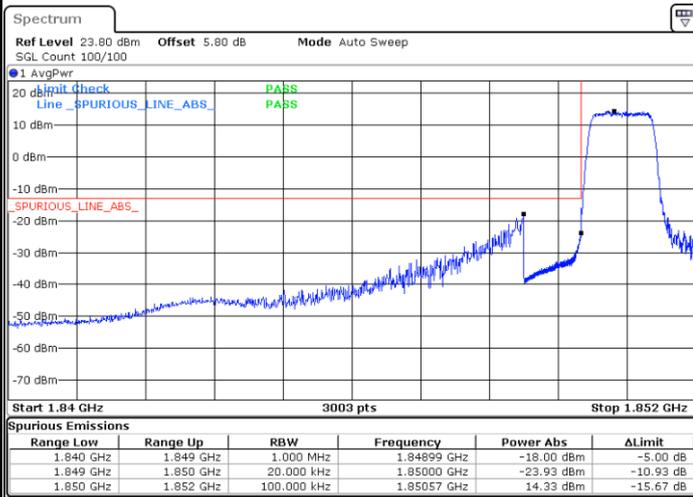
Date: 21.OCT.2021 09:59:15

Highest Band Edge / 1 RB



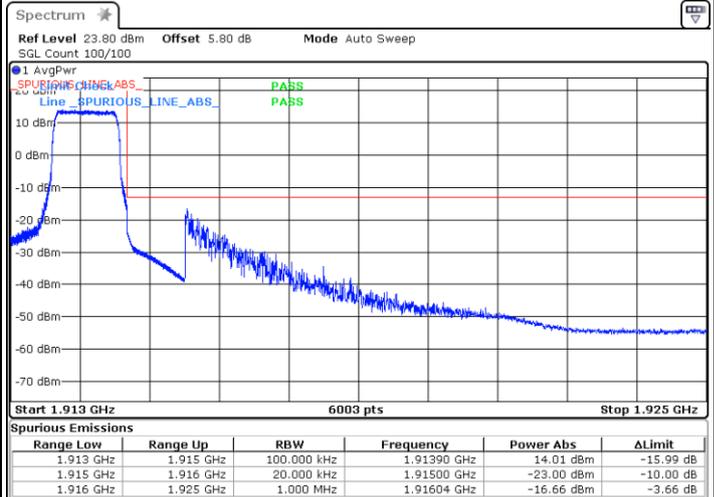
Date: 21.OCT.2021 10:12:17

Lowest Band Edge / Full RB



Date: 21.OCT.2021 10:02:44

Highest Band Edge / Full RB



Date: 21.OCT.2021 10:19:50