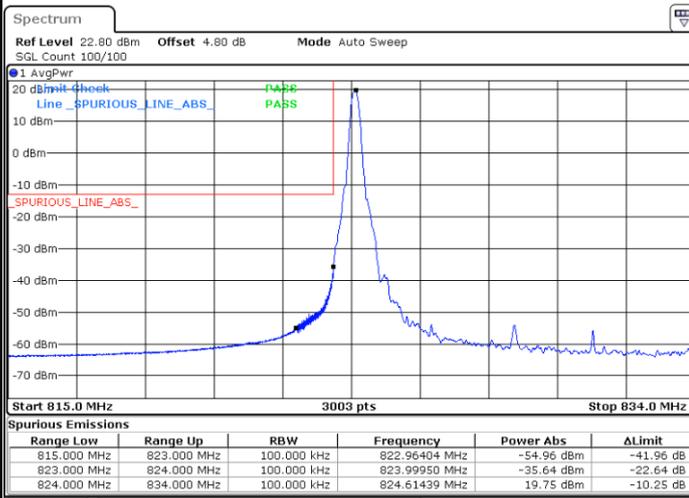




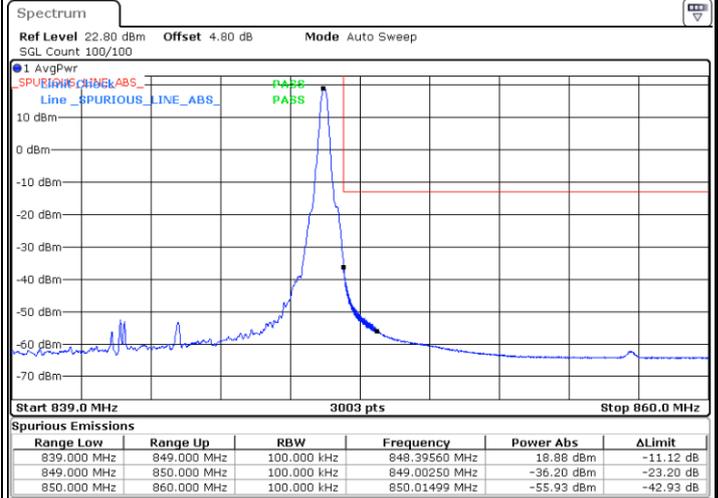
LTE Band 5 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



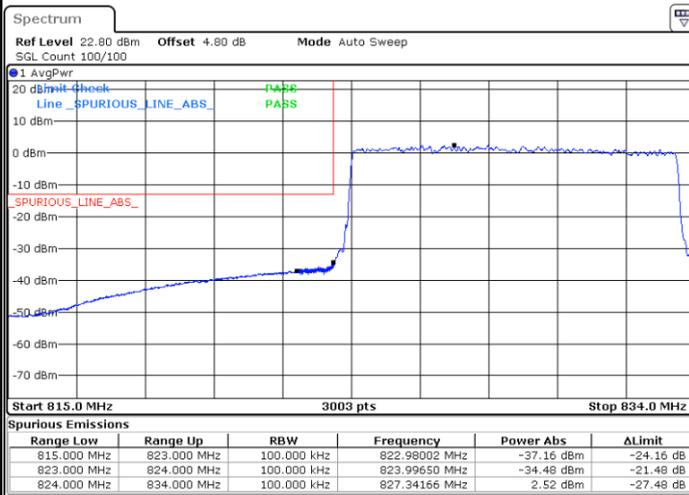
Date: 1.JAN.2021 14:10:04

Highest Band Edge / 1 RB



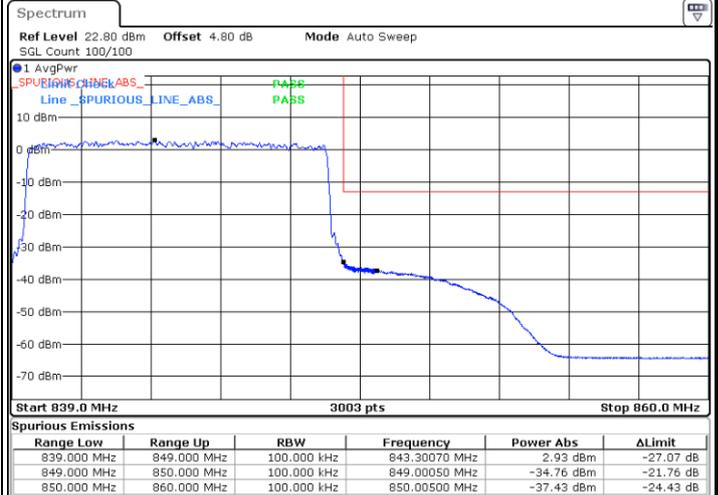
Date: 1.JAN.2021 14:13:19

Lowest Band Edge / Full RB



Date: 1.JAN.2021 14:08:26

Highest Band Edge / Full RB

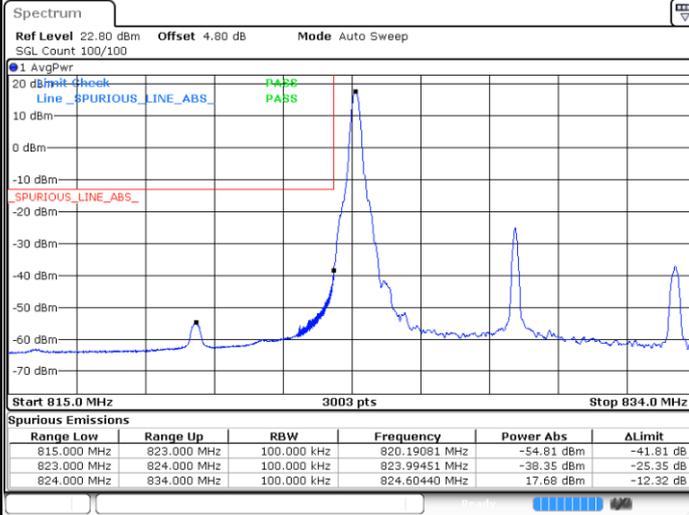


Date: 1.JAN.2021 14:11:41



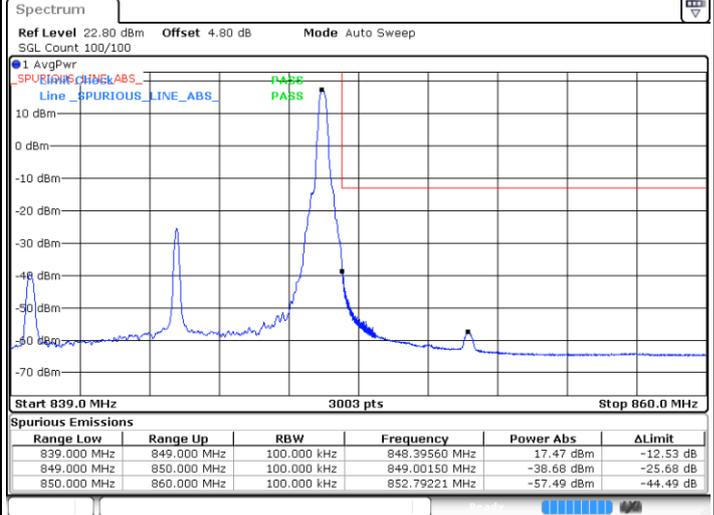
LTE Band 5 / 5MHz / 256QAM

Lowest Band Edge / 1RB



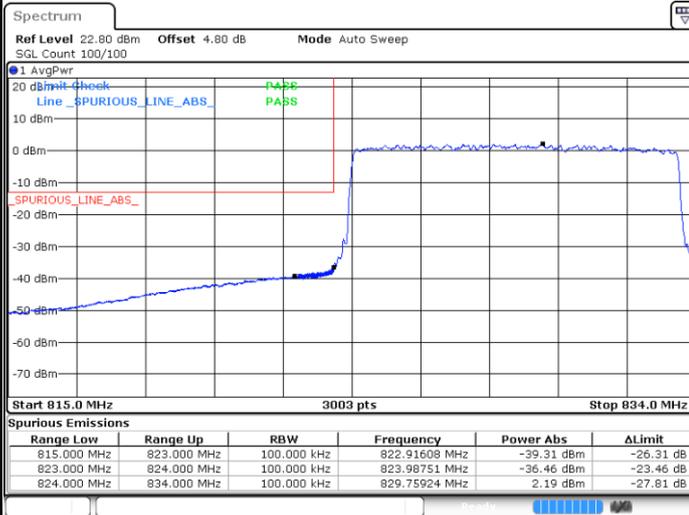
Date: 11. JAN 2021 15:29:37

Highest Band Edge / 1 RB



Date: 11. JAN 2021 15:31:21

Lowest Band Edge / Full RB



Date: 11. JAN 2021 15:29:02

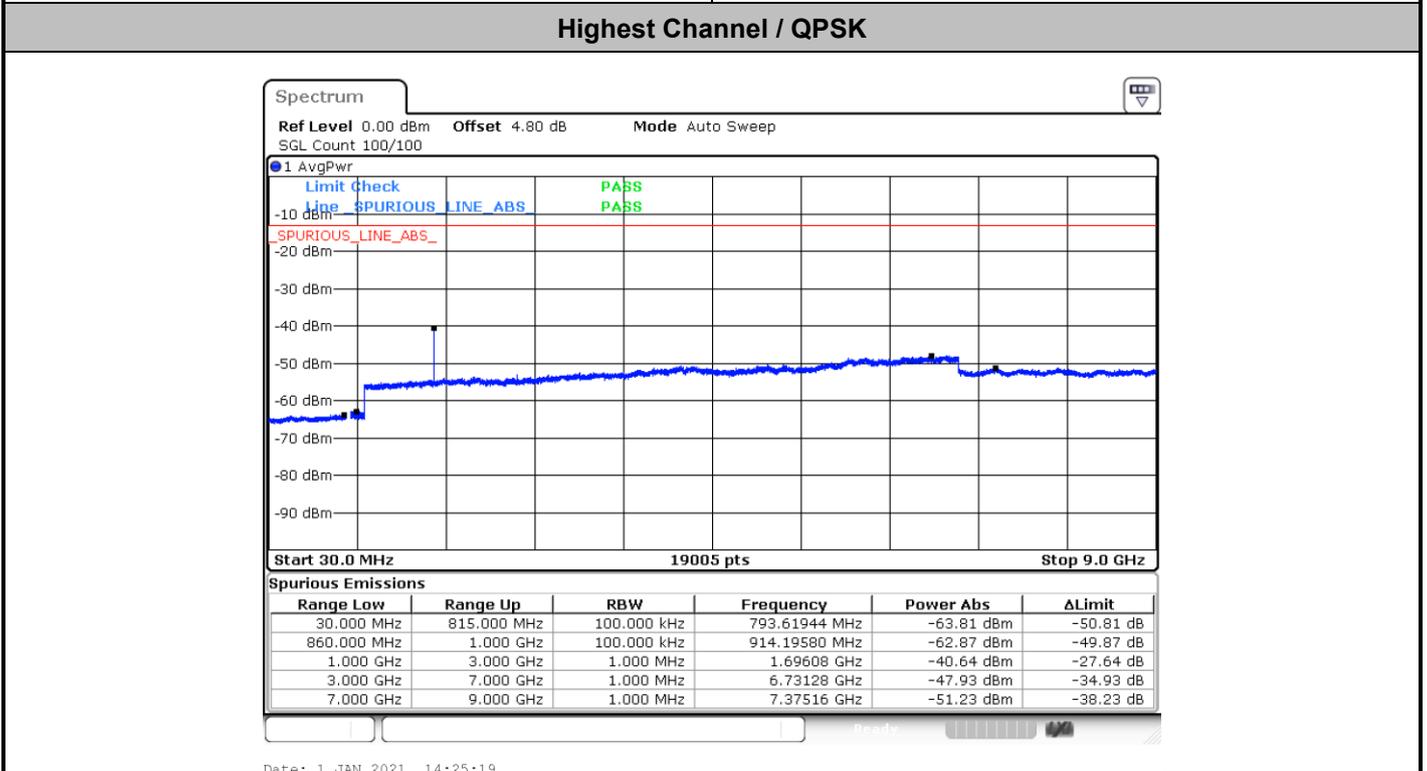
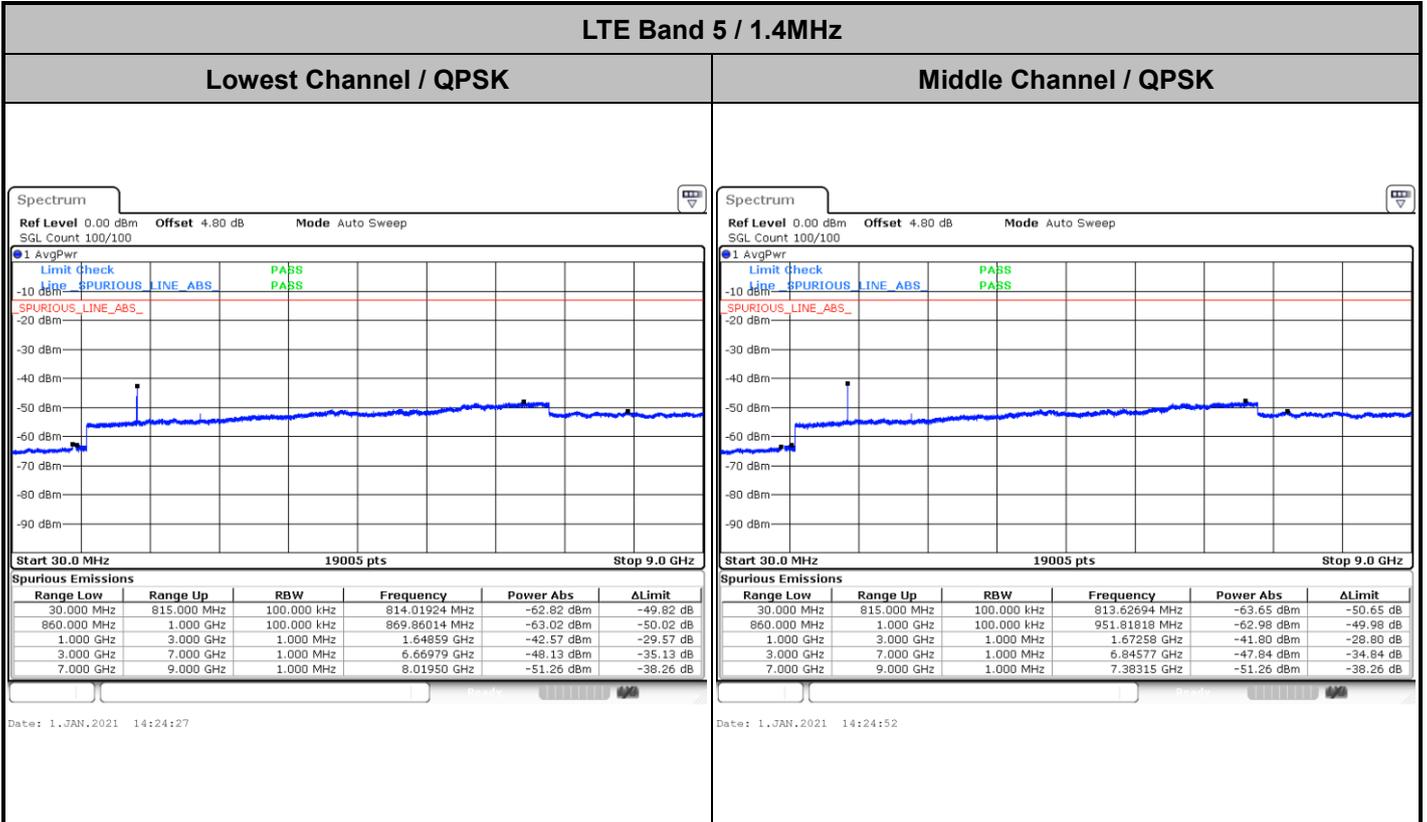
Highest Band Edge / Full RB



Date: 11. JAN 2021 15:33:10



Conducted Spurious Emission

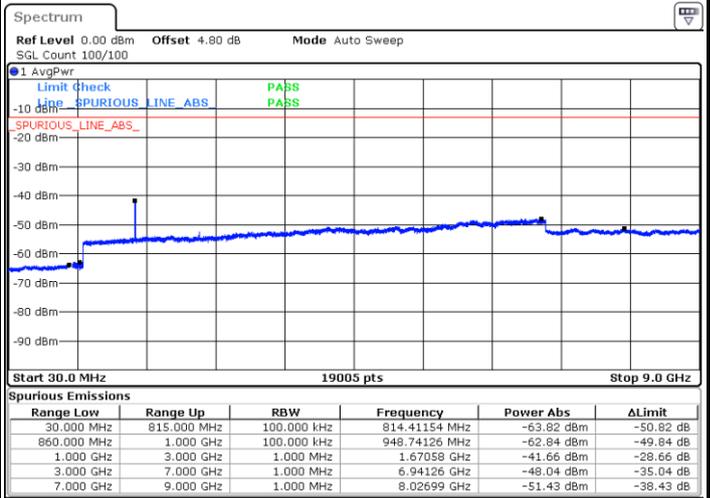
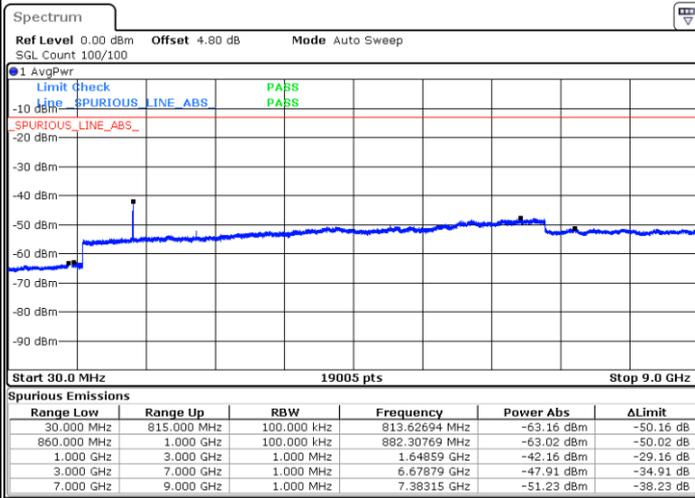




LTE Band 5 / 3MHz

Lowest Channel / QPSK

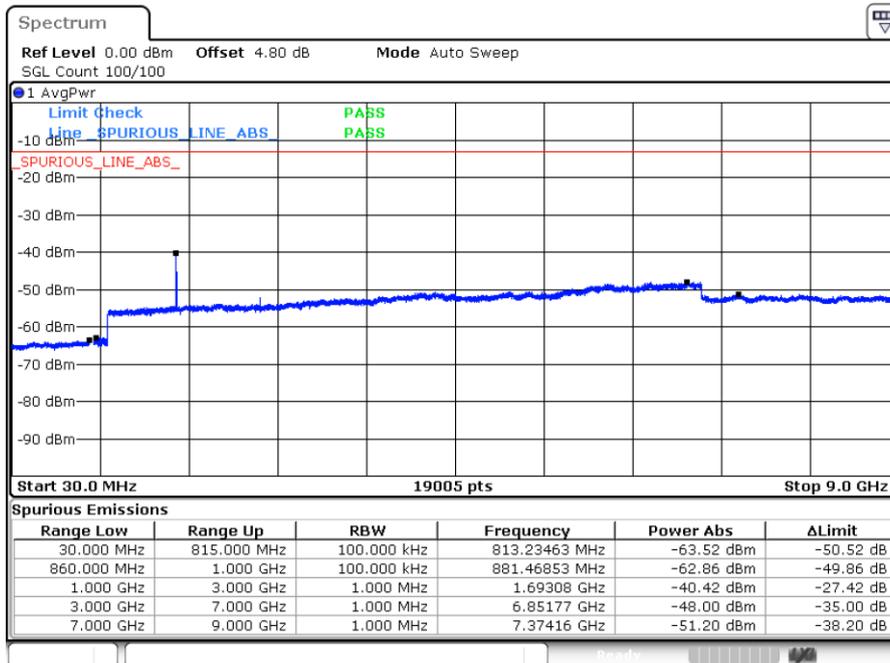
Middle Channel / QPSK



Date: 1.JAN.2021 14:25:48

Date: 1.JAN.2021 14:26:13

Highest Channel / QPSK



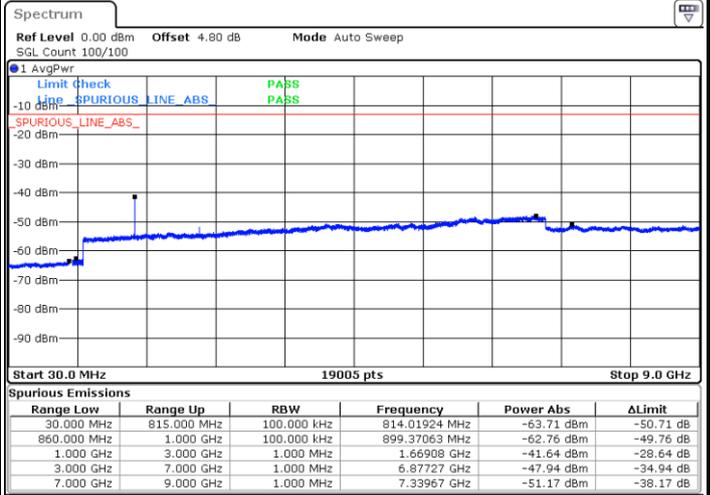
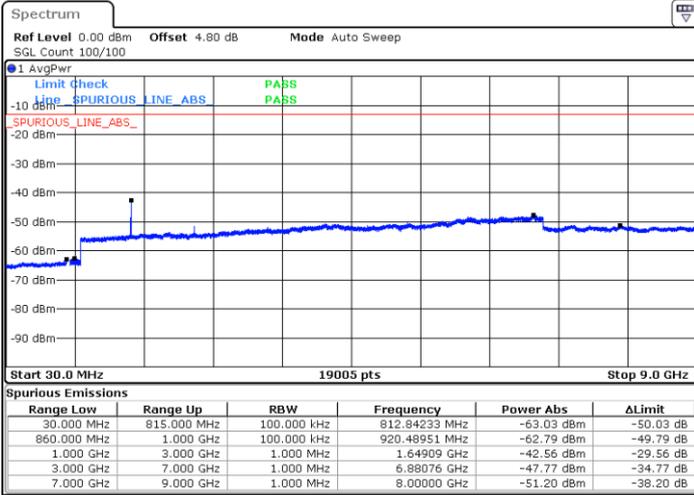
Date: 1.JAN.2021 14:26:39



LTE Band 5 / 5MHz

Lowest Channel / QPSK

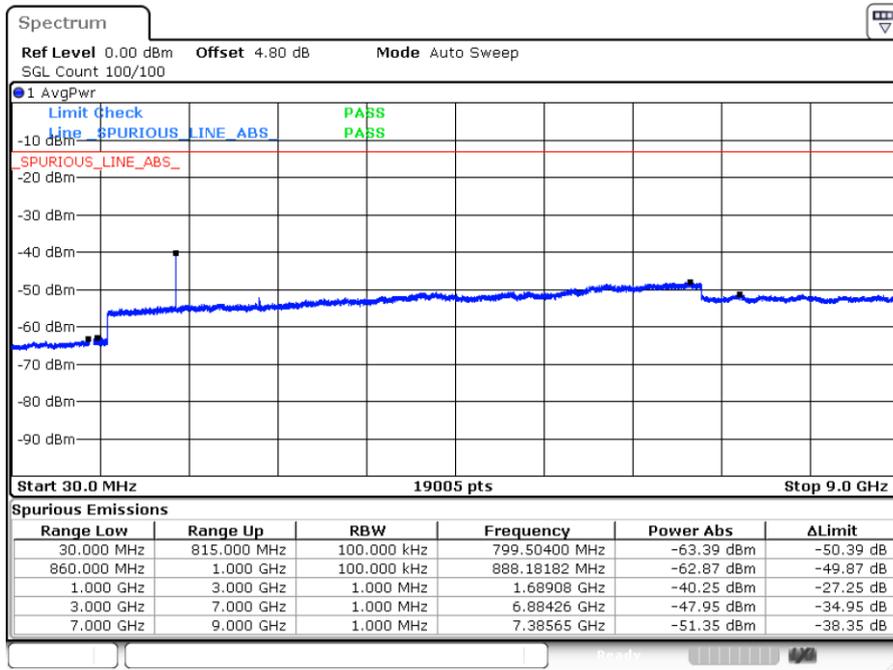
Middle Channel / QPSK



Date: 1.JAN.2021 14:27:07

Date: 1.JAN.2021 14:27:32

Highest Channel / QPSK

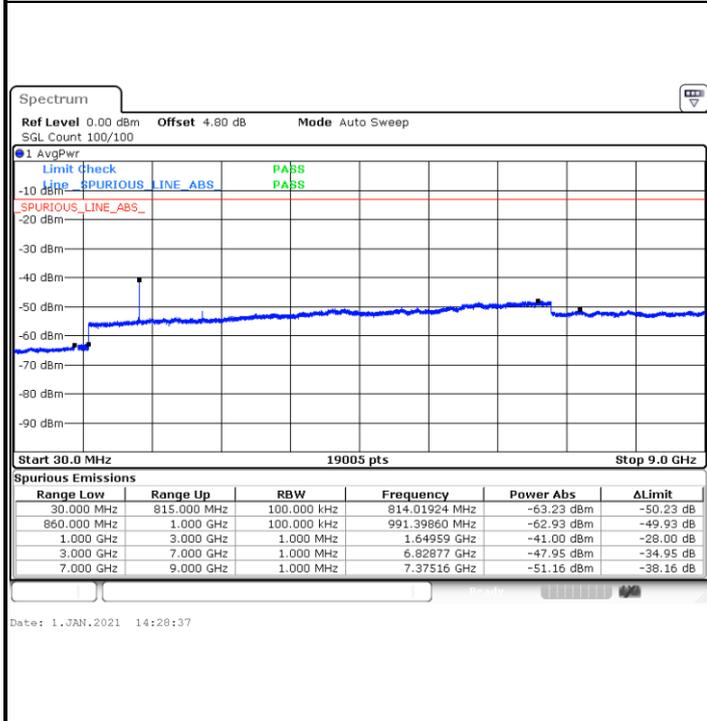


Date: 1.JAN.2021 14:27:58

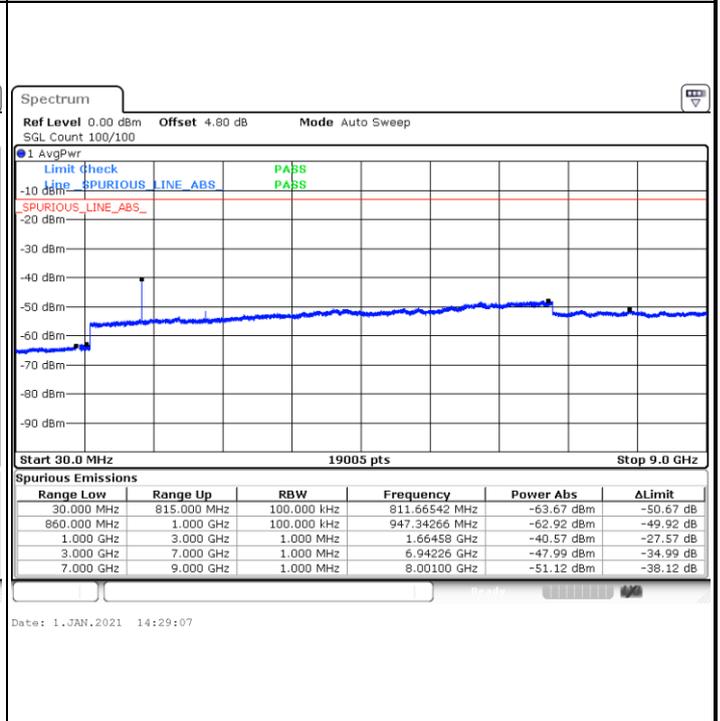


LTE Band 5 / 10MHz

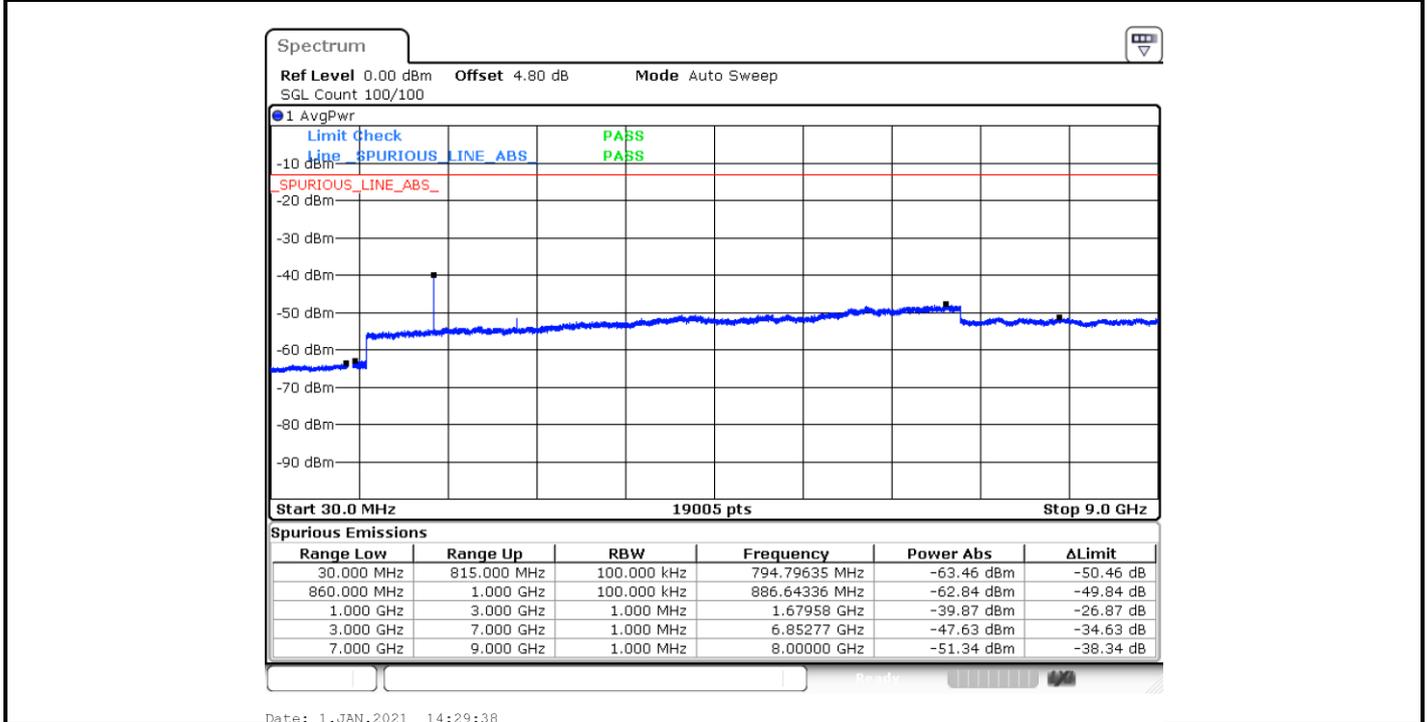
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK





Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0062	PASS
40	Normal Voltage	0.0043	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0010	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0045	
-30	Normal Voltage	0.0059	
20	Maximum Voltage	0.0010	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0010	

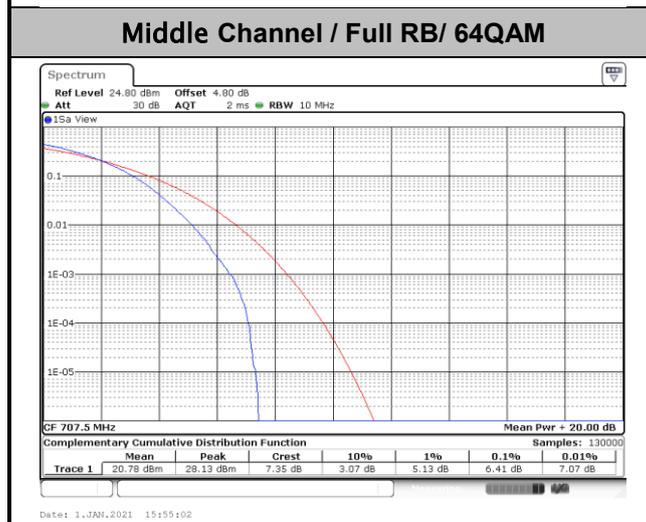
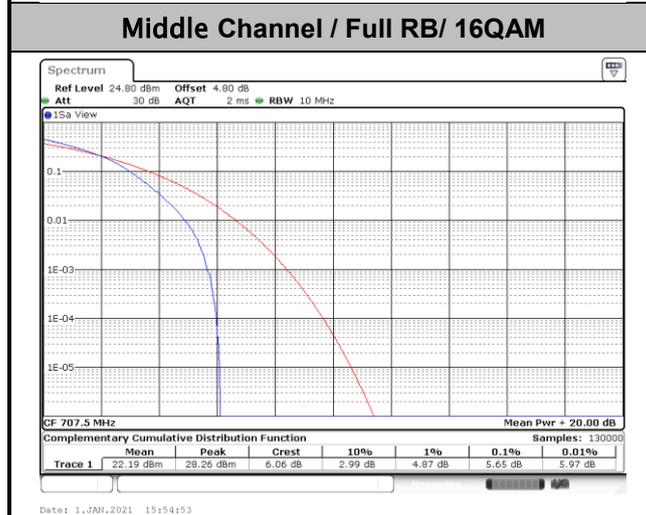
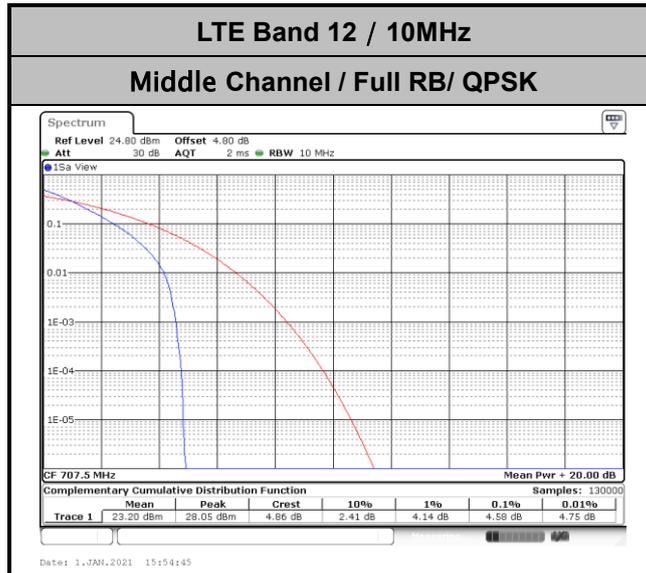
Note: Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.



LTE Band 12

Peak-to-Average Ratio

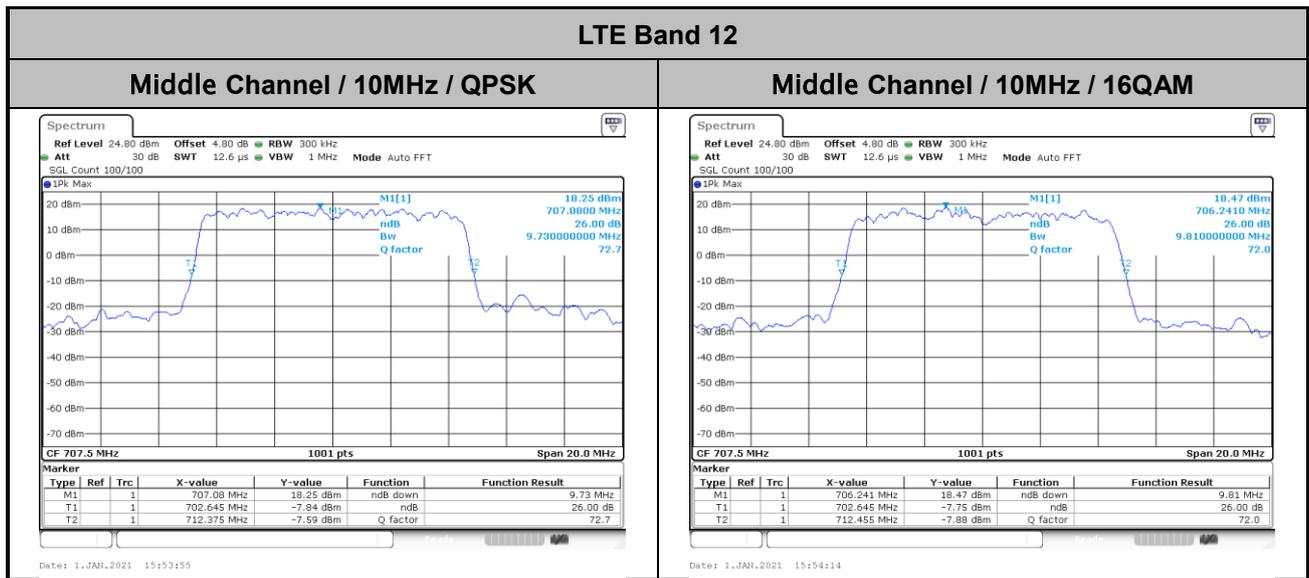
Mode	LTE Band 12 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.58	5.65	6.41	PASS





26dB Bandwidth

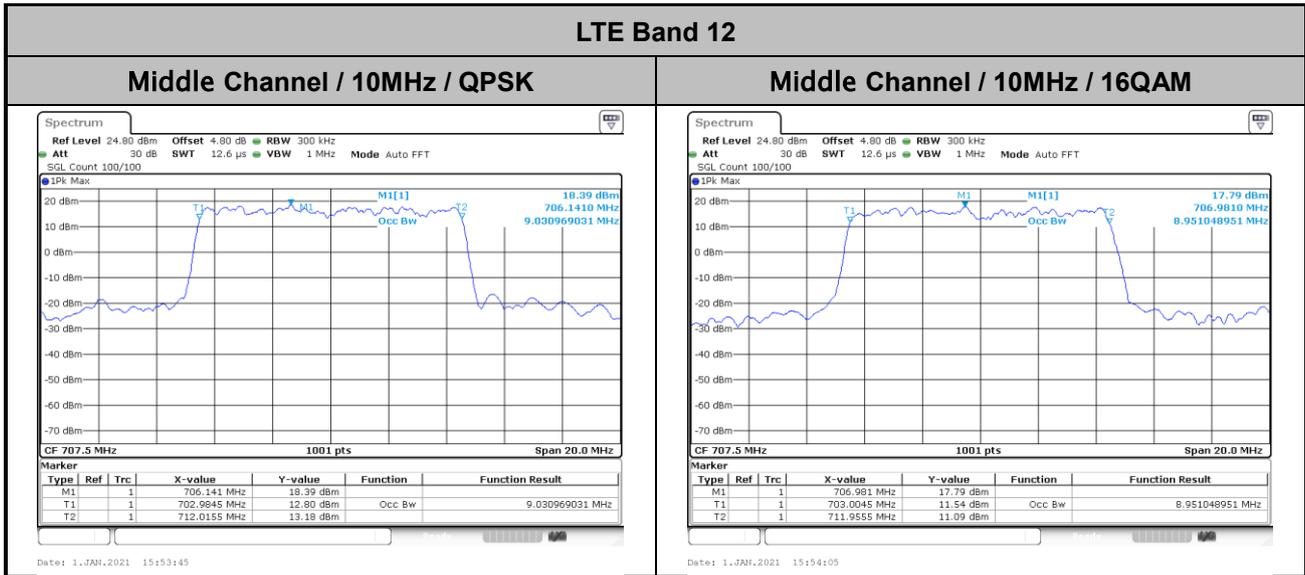
Mode	LTE Band 12 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.73	9.81





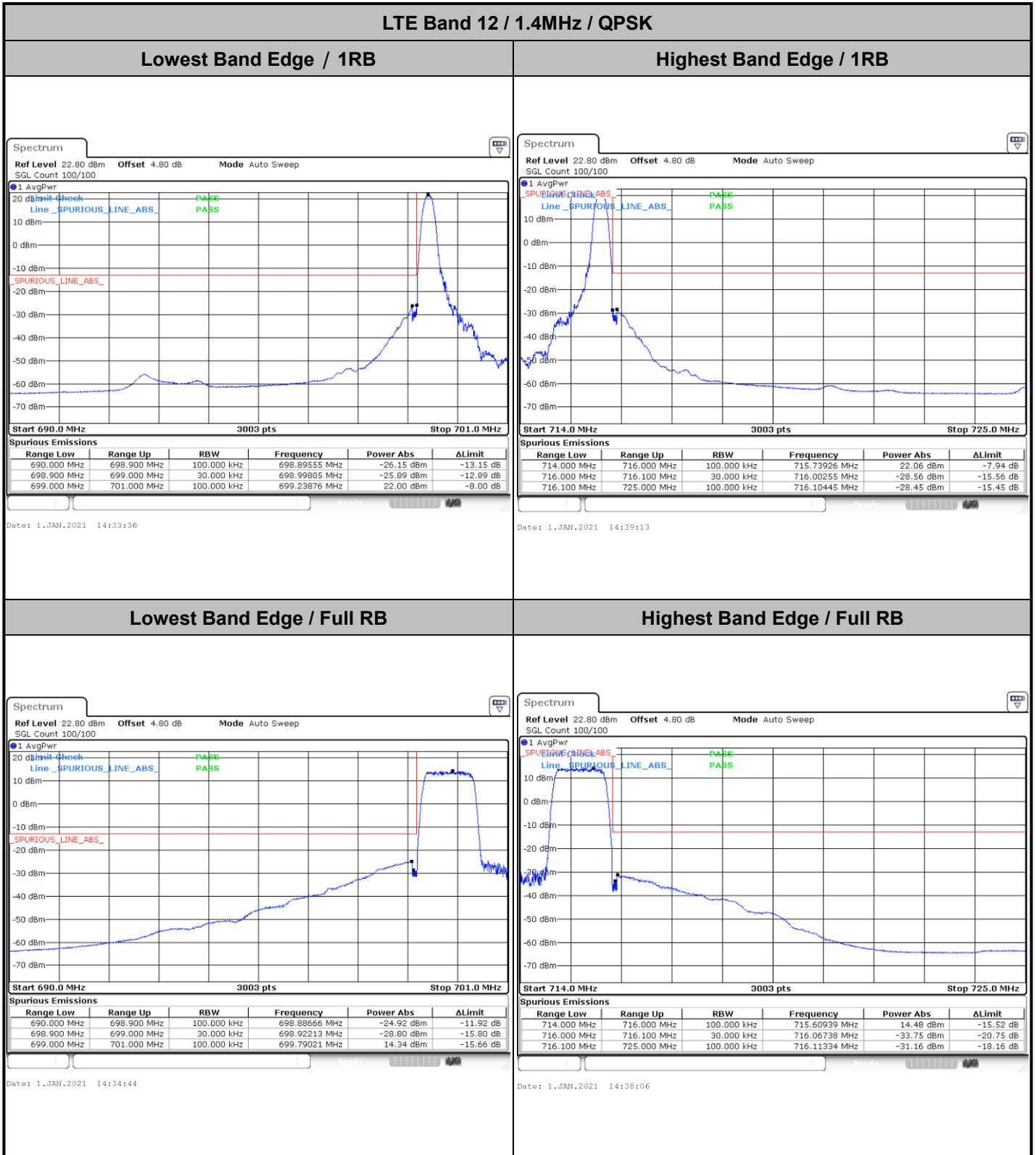
Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.03	8.95





Conducted Band Edge





LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



Date: 1.JAN.2021 14:32:29

Date: 1.JAN.2021 14:40:21

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.JAN.2021 14:35:51

Date: 1.JAN.2021 14:36:59



LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



Date: 1.JAN.2021 15:10:41

Highest Band Edge / 1 RB



Date: 1.JAN.2021 15:08:26

Lowest Band Edge / Full RB



Date: 1.JAN.2021 15:11:48

Highest Band Edge / Full RB



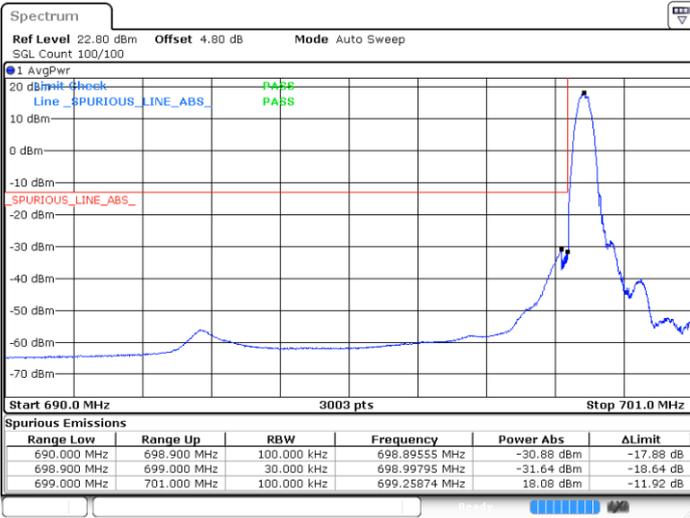
Date: 1.JAN.2021 15:09:33



LTE Band 12 / 1.4MHz / 256QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



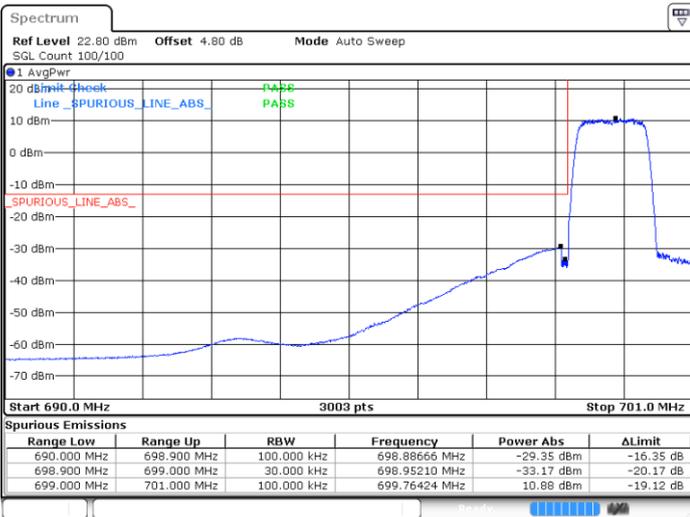
Date: 19 JAN 2021 20:09:47



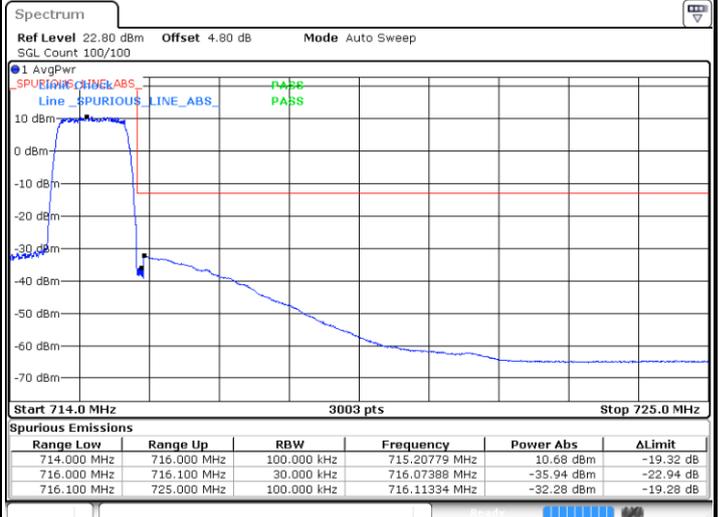
Date: 19 JAN 2021 20:10:59

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 19 JAN 2021 20:09:03

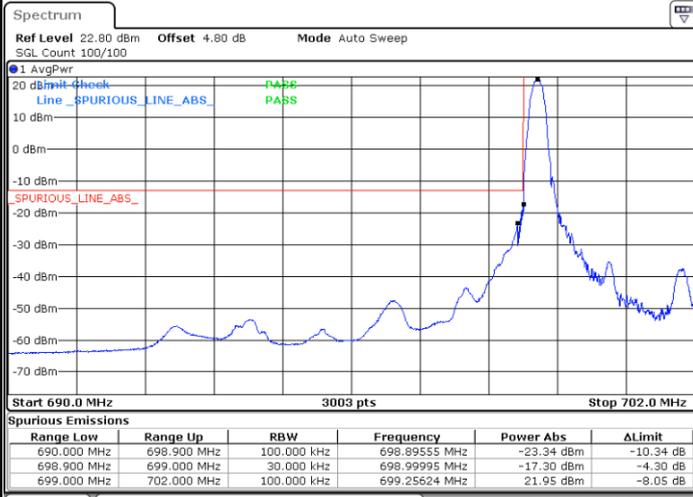


Date: 19 JAN 2021 20:12:06



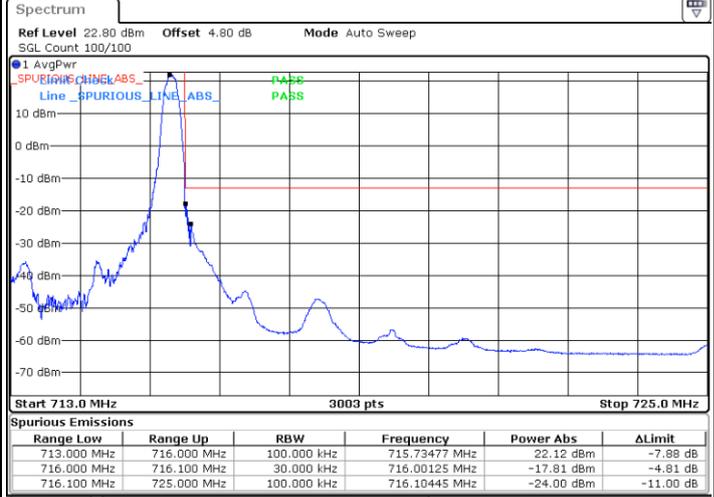
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



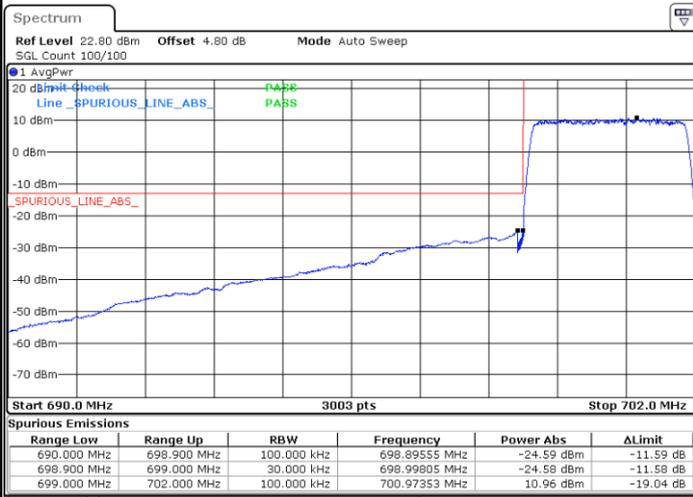
Date: 1.JAN.2021 14:42:35

Highest Band Edge / 1 RB



Date: 1.JAN.2021 14:46:13

Lowest Band Edge / Full RB



Date: 1.JAN.2021 14:43:43

Highest Band Edge / Full RB

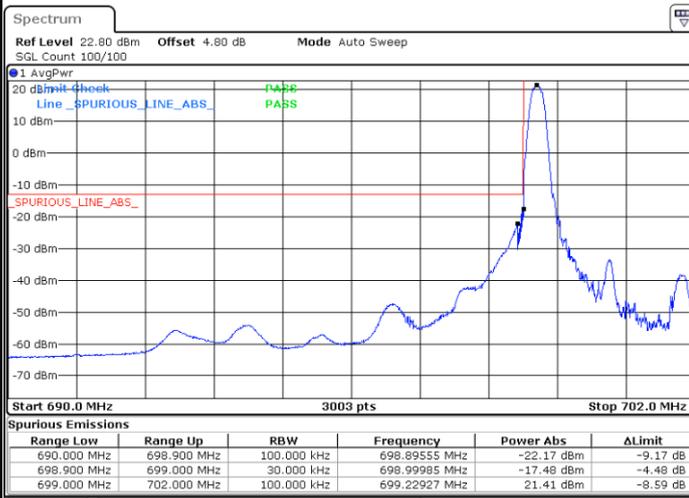


Date: 1.JAN.2021 14:47:05



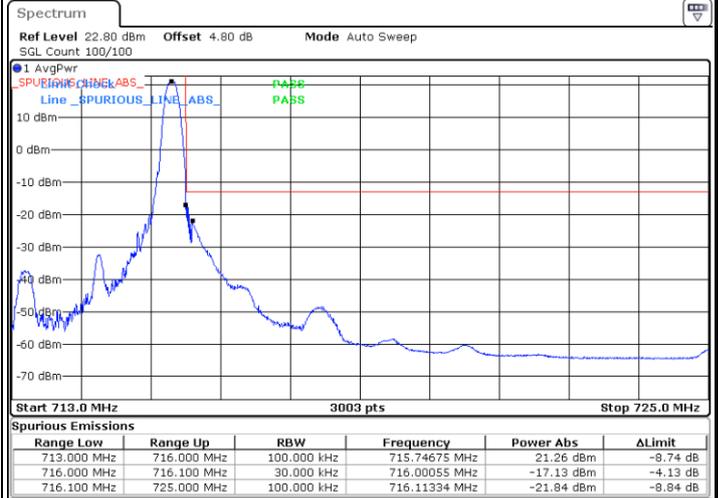
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 1.JAN.2021 14:41:28

Highest Band Edge / 1 RB



Date: 1.JAN.2021 14:49:20

Lowest Band Edge / Full RB



Date: 1.JAN.2021 14:44:50

Highest Band Edge / Full RB

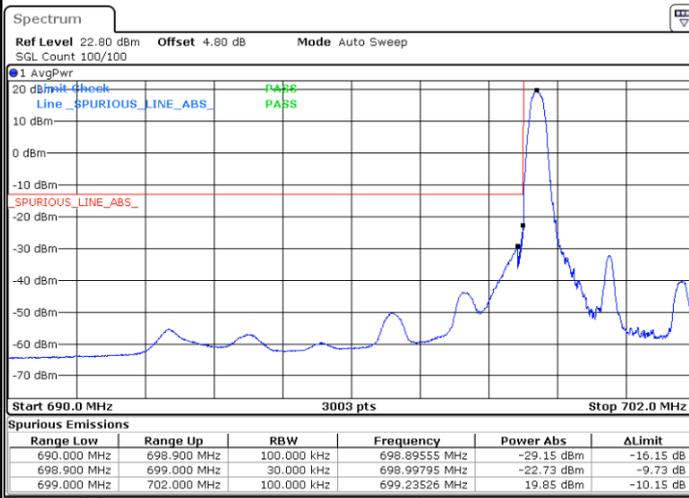


Date: 1.JAN.2021 14:45:58



LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



Date: 1.JAN.2021 15:12:55

Highest Band Edge / 1 RB



Date: 1.JAN.2021 15:16:18

Lowest Band Edge / Full RB



Date: 1.JAN.2021 15:14:03

Highest Band Edge / Full RB



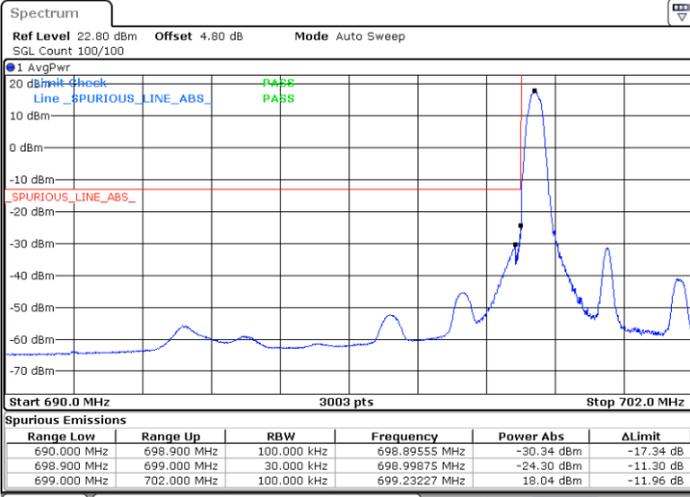
Date: 1.JAN.2021 15:15:10



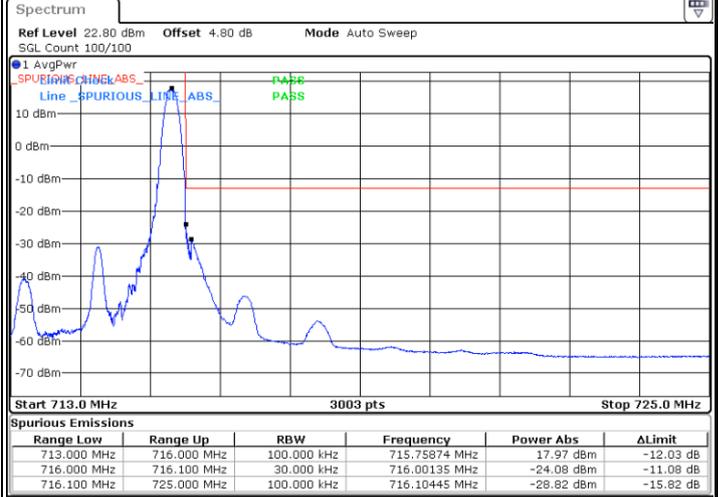
LTE Band 12 / 3MHz / 256QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



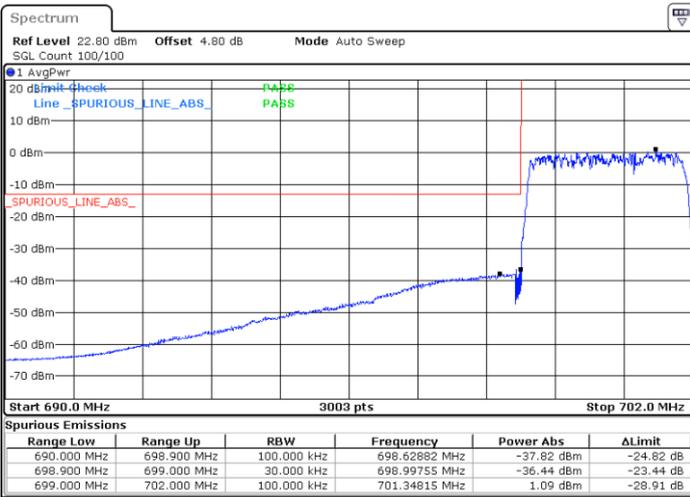
Date: 19 JAN 2021 19:57:02



Date: 19 JAN 2021 19:58:21

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 19 JAN 2021 19:55:51

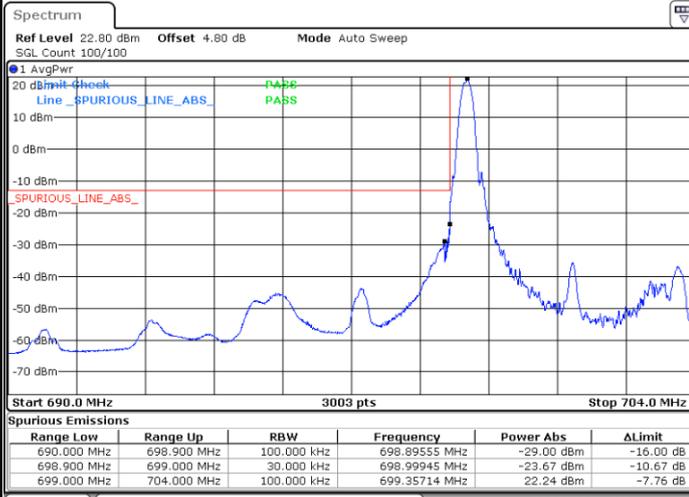


Date: 1 JAN 2021 15:15:10



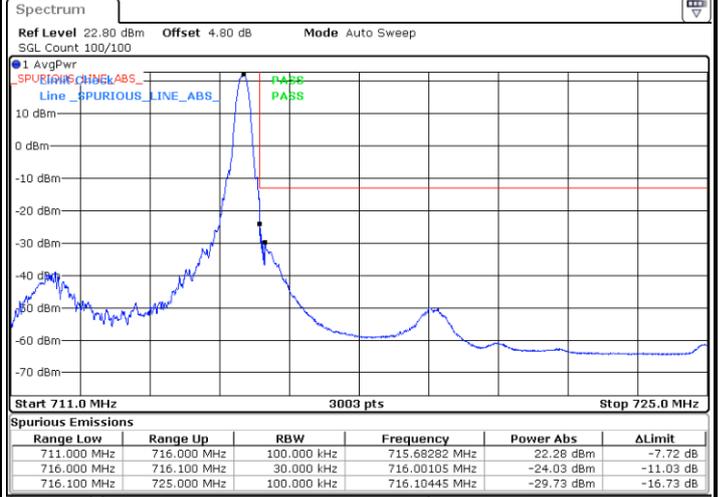
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



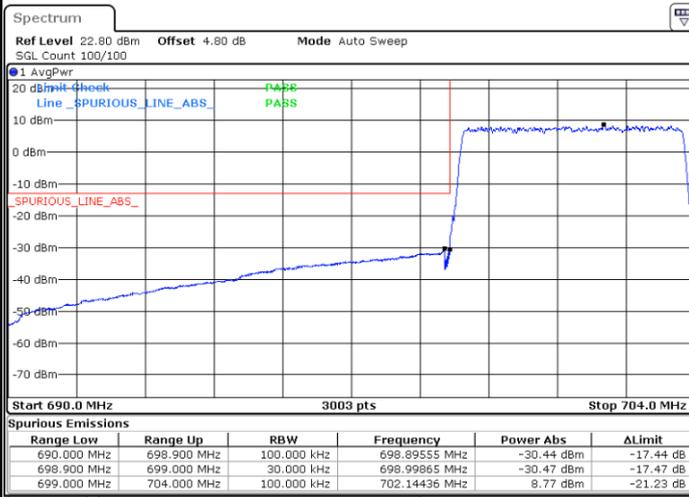
Date: 1.JAN.2021 14:51:35

Highest Band Edge / 1 RB



Date: 1.JAN.2021 14:57:12

Lowest Band Edge / Full RB



Date: 1.JAN.2021 14:52:42

Highest Band Edge / Full RB

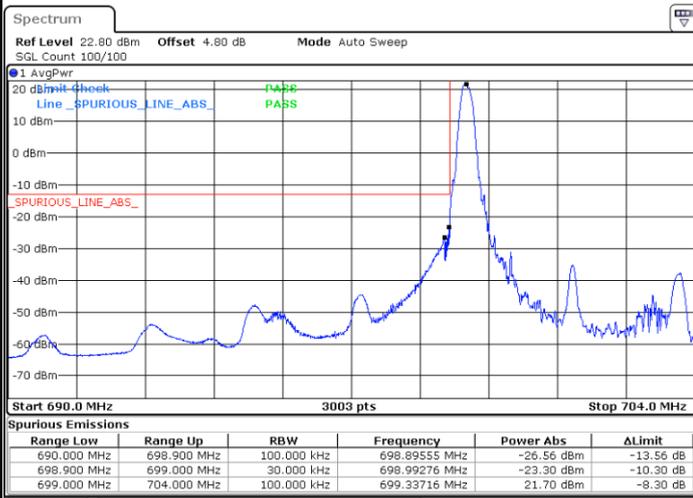


Date: 1.JAN.2021 14:56:04

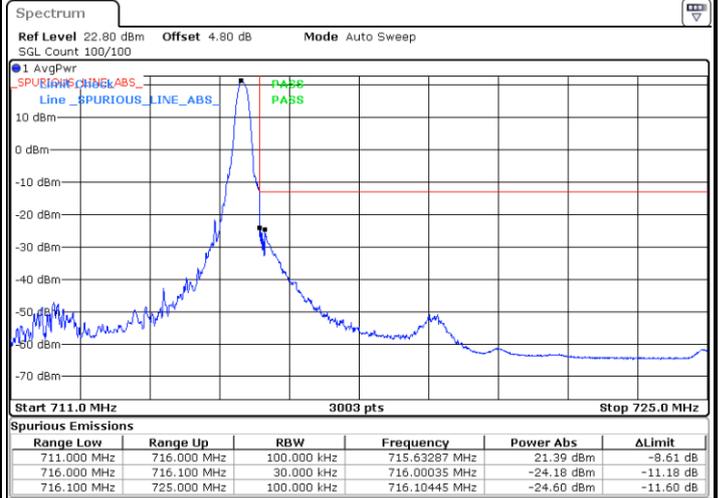


LTE Band 12 / 5MHz / 16QAM

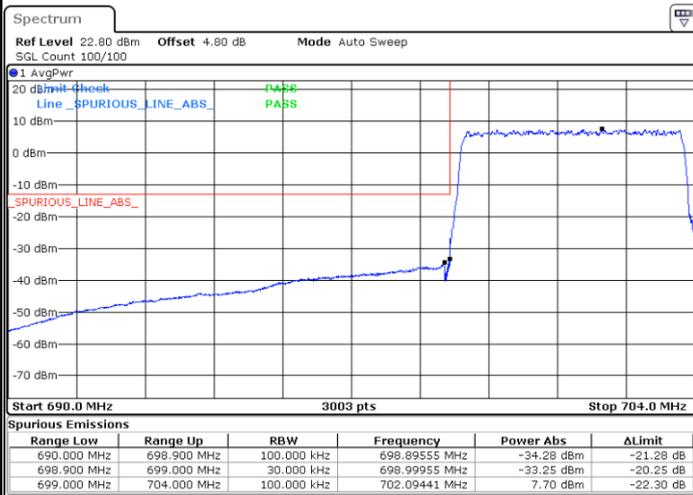
Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



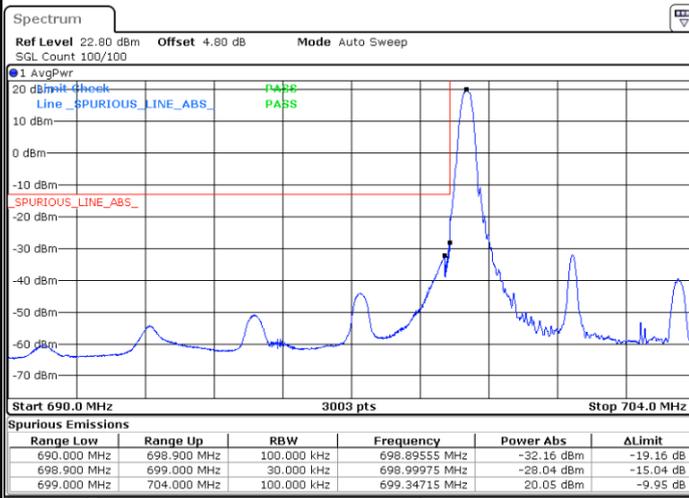
Highest Band Edge / Full RB



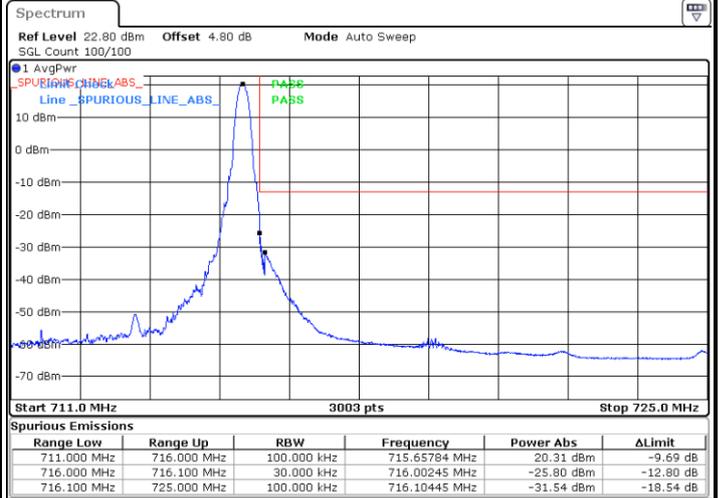


LTE Band 12 / 5MHz / 64QAM

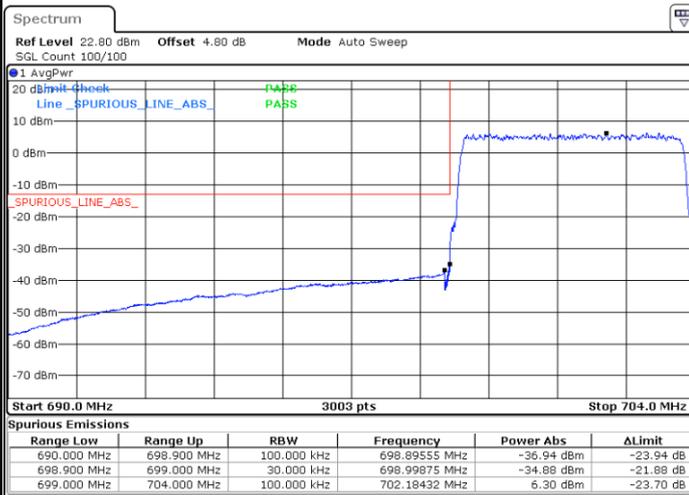
Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



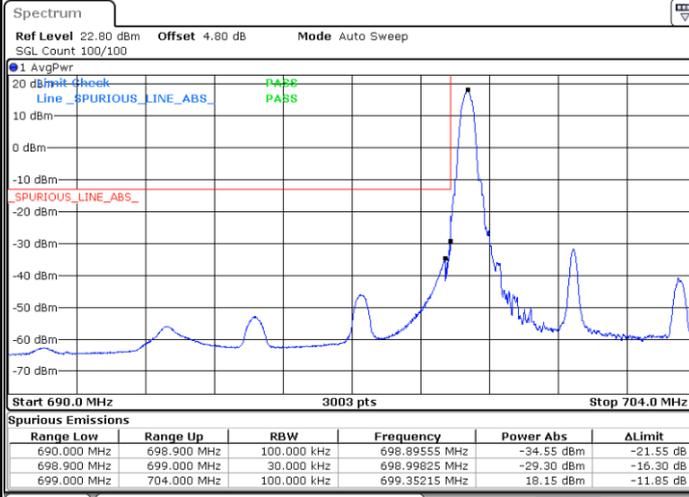
Highest Band Edge / Full RB





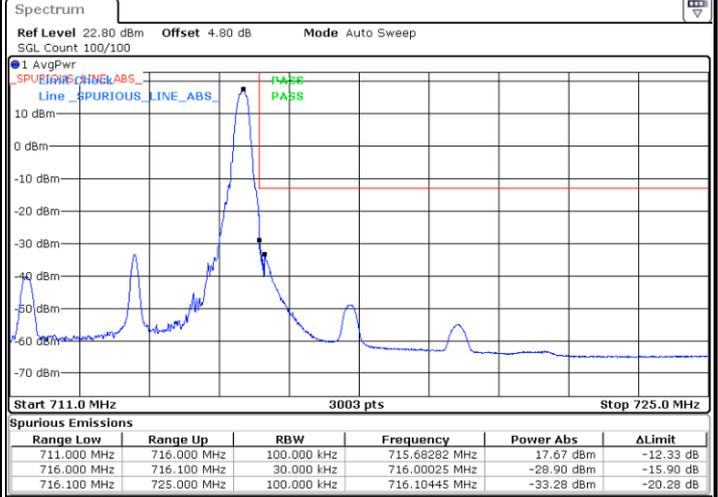
LTE Band 12 / 5MHz / 256QAM

Lowest Band Edge / 1RB



Date: 19 JAN 2021 19:46:11

Highest Band Edge / 1 RB



Date: 19 JAN 2021 19:47:39

Lowest Band Edge / Full RB



Date: 19 JAN 2021 19:45:07

Highest Band Edge / Full RB

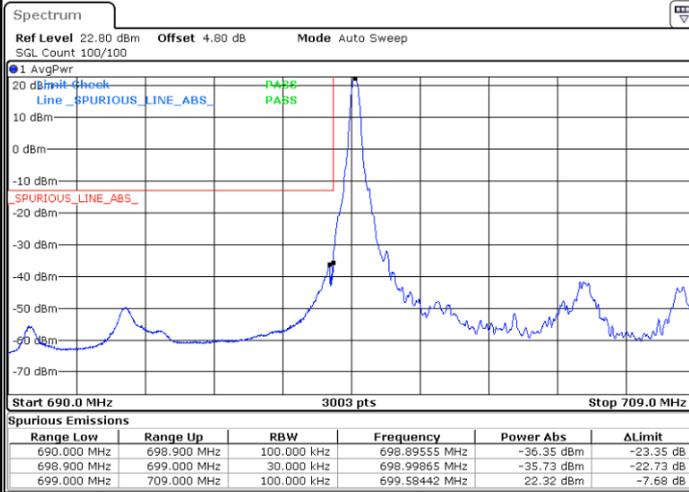


Date: 19 JAN 2021 19:48:35



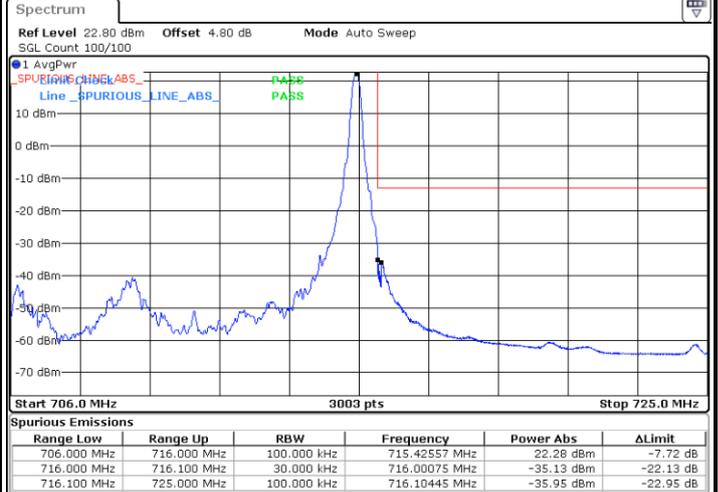
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



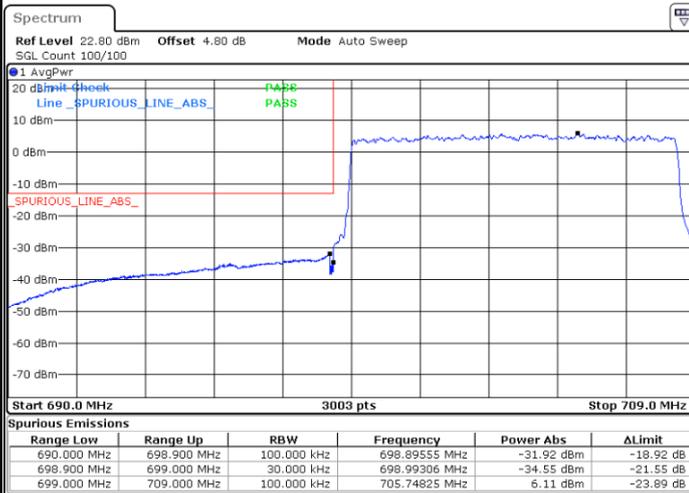
Date: 1.JAN.2021 15:00:34

Highest Band Edge / 1 RB



Date: 1.JAN.2021 15:06:11

Lowest Band Edge / Full RB



Date: 1.JAN.2021 15:01:41

Highest Band Edge / Full RB

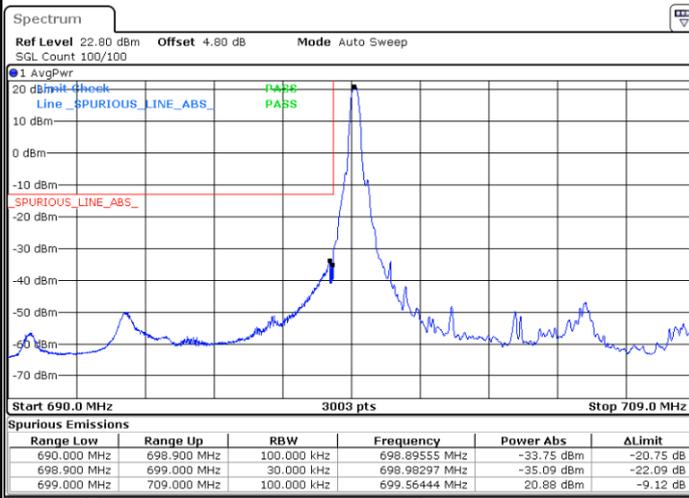


Date: 1.JAN.2021 15:05:04



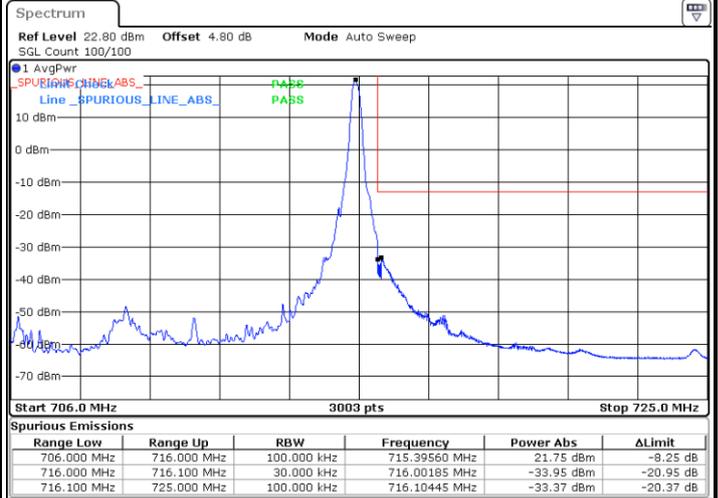
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



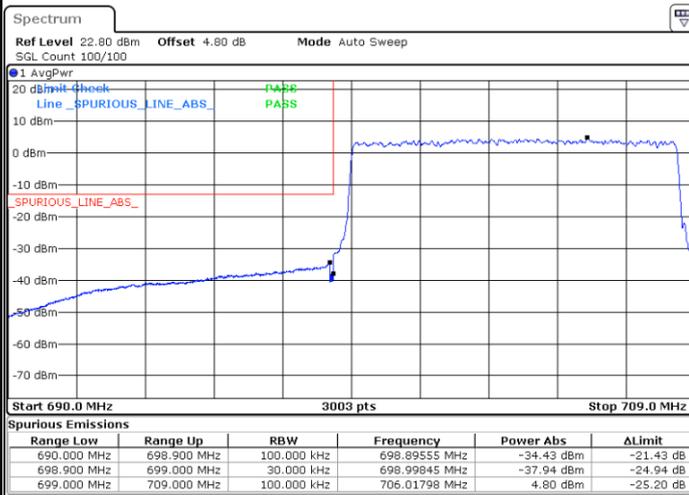
Date: 1.JAN.2021 14:59:27

Highest Band Edge / 1 RB



Date: 1.JAN.2021 15:07:18

Lowest Band Edge / Full RB



Date: 1.JAN.2021 15:02:49

Highest Band Edge / Full RB

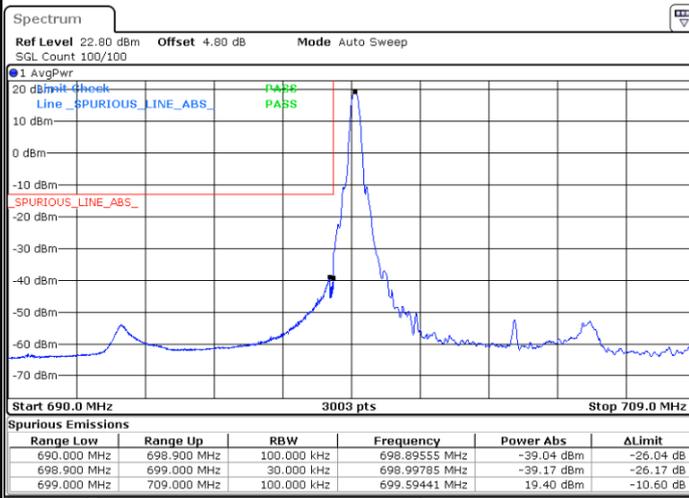


Date: 1.JAN.2021 15:03:56



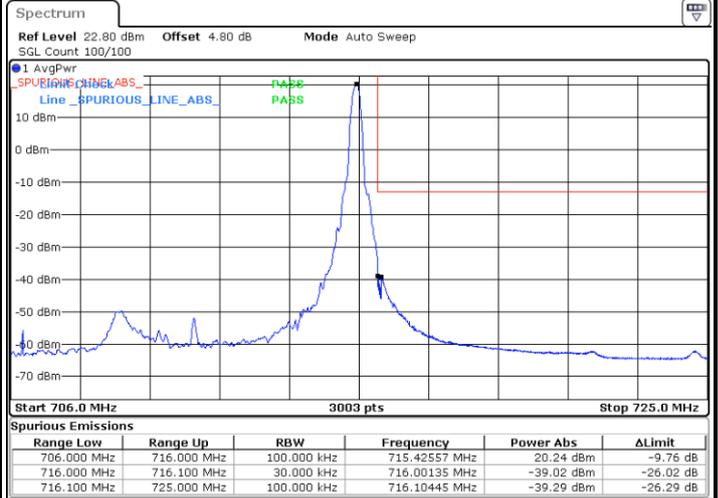
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



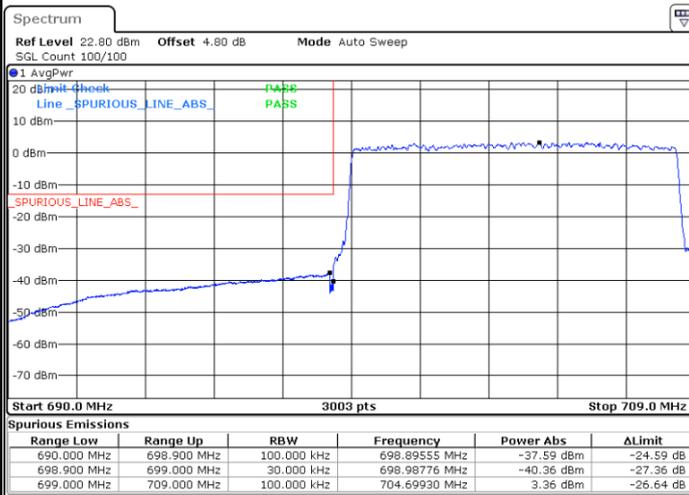
Date: 1.JAN.2021 15:24:10

Highest Band Edge / 1 RB



Date: 1.JAN.2021 15:23:02

Lowest Band Edge / Full RB



Date: 1.JAN.2021 15:25:17

Highest Band Edge / Full RB



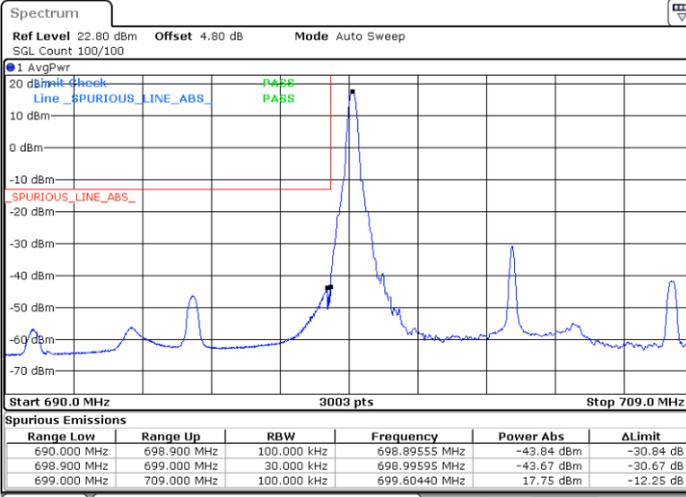
Date: 1.JAN.2021 15:21:55



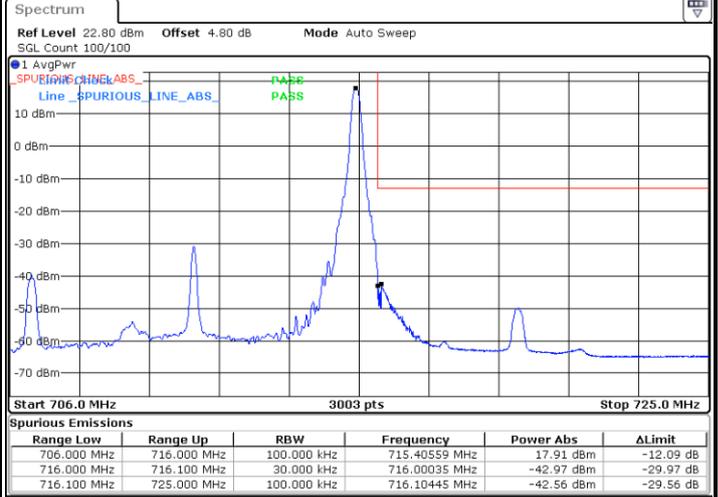
LTE Band 12 / 10MHz / 256QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



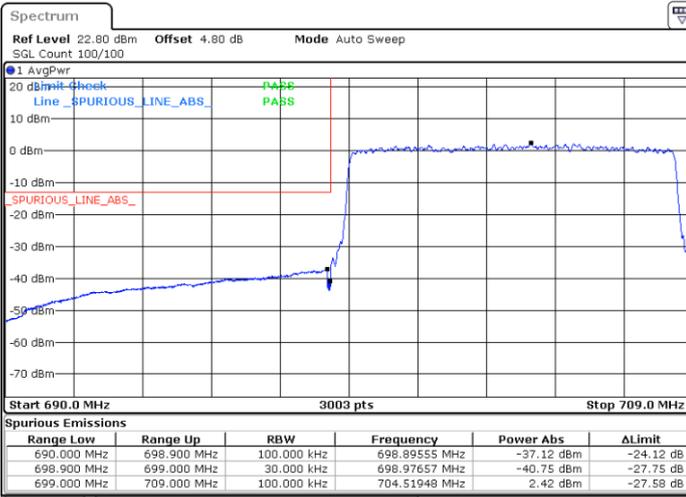
Date: 19 JAN 2021 19:51:06



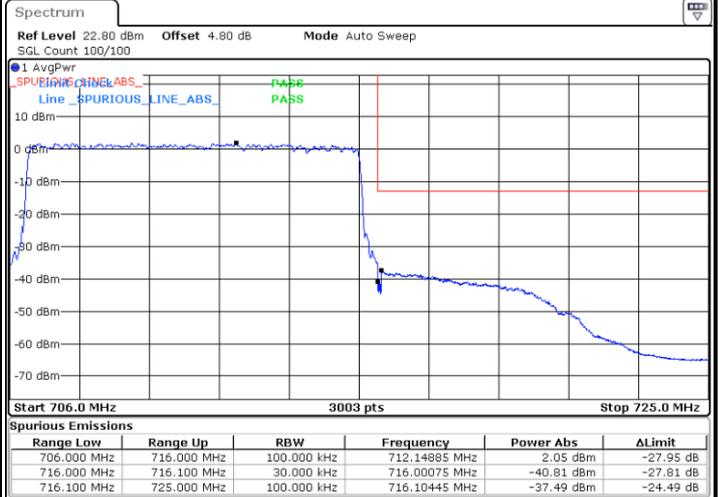
Date: 19 JAN 2021 19:53:07

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



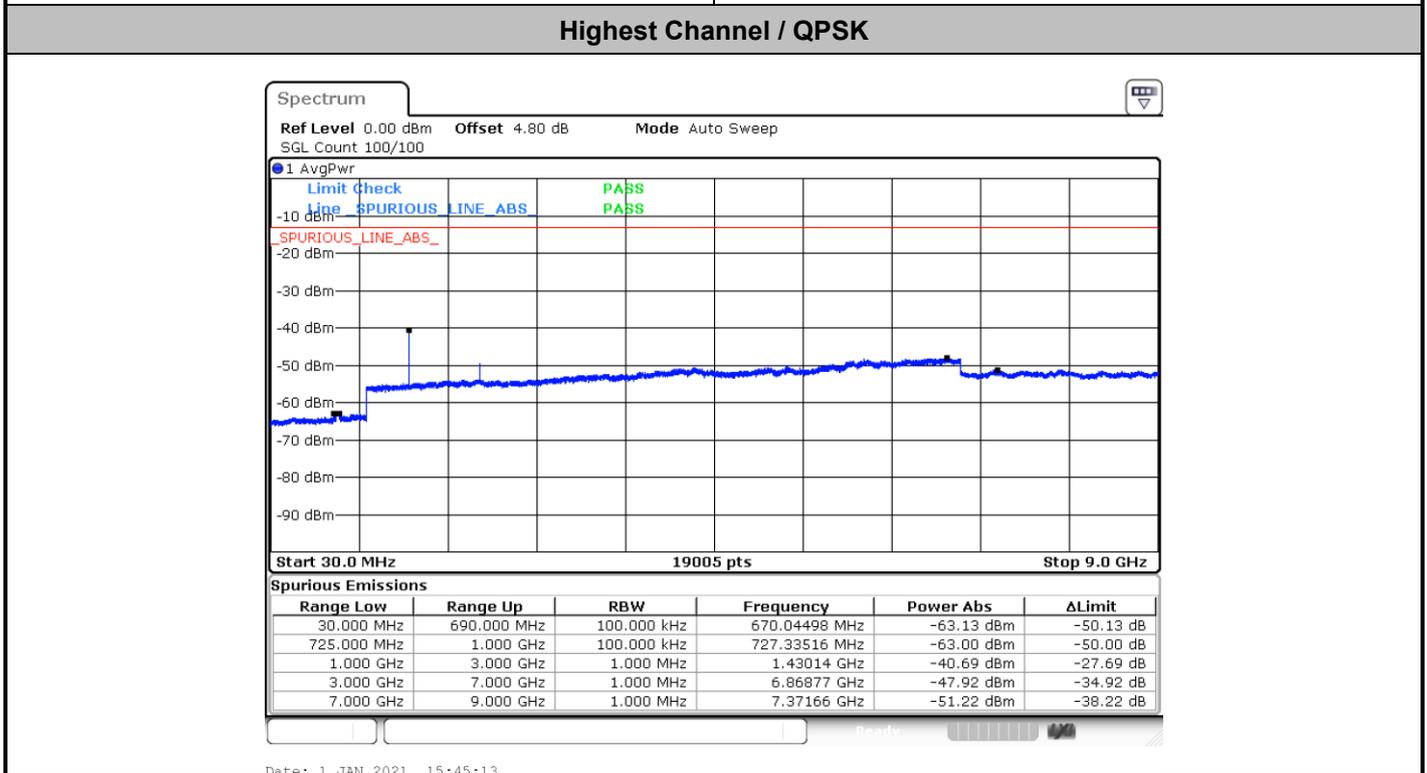
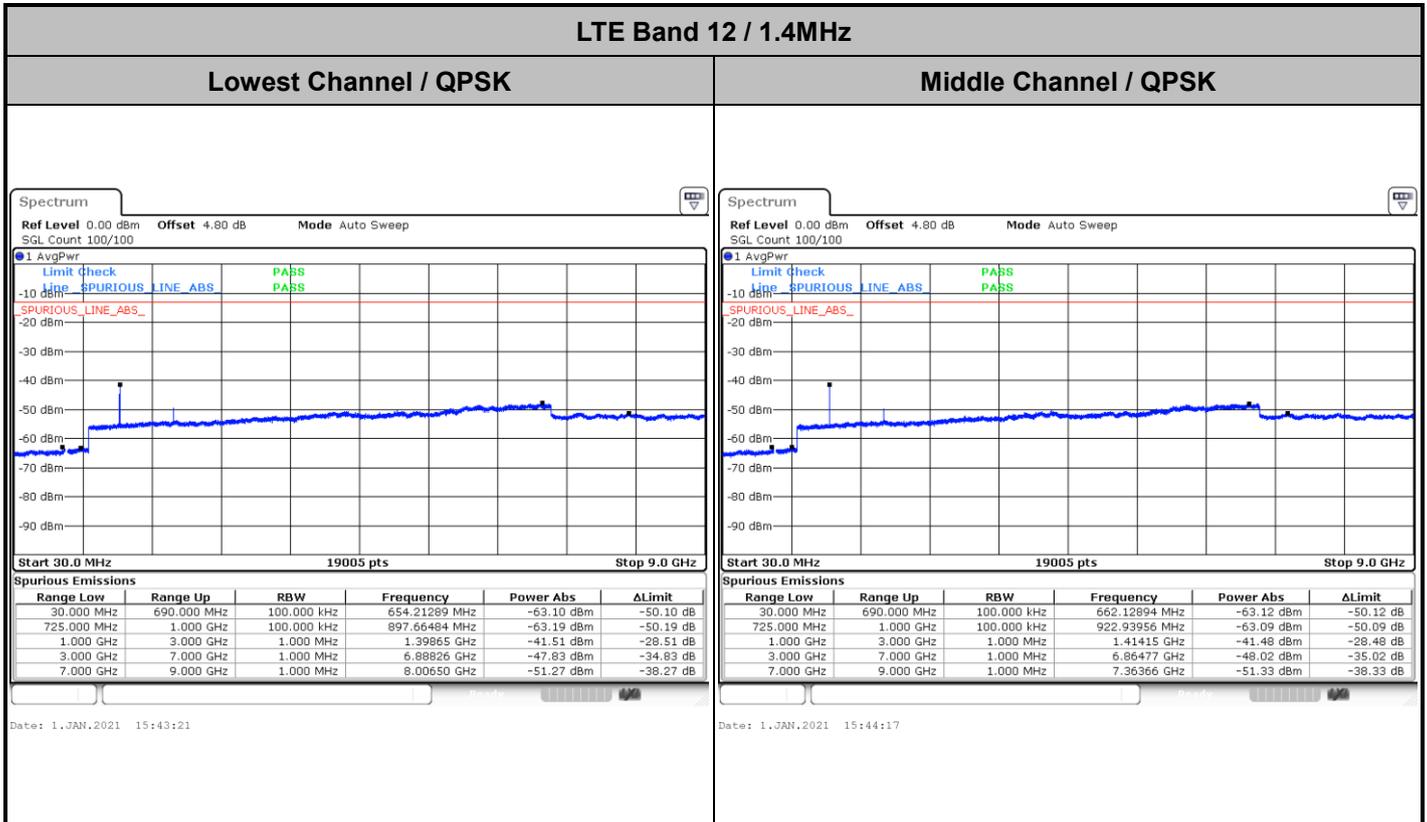
Date: 19 JAN 2021 19:50:21



Date: 19 JAN 2021 19:54:06



Conducted Spurious Emission

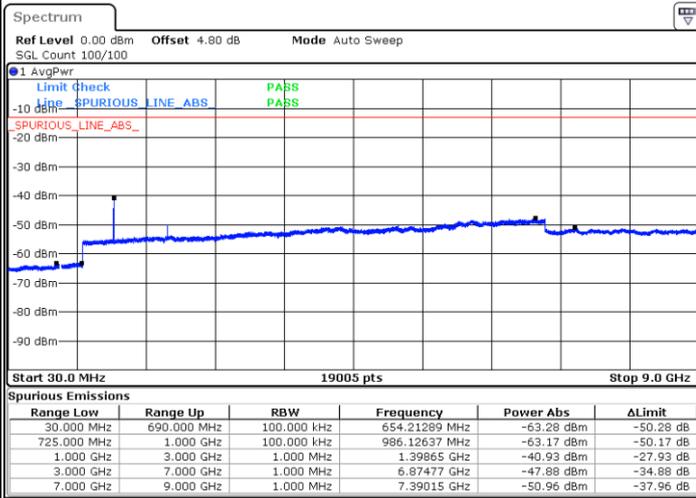




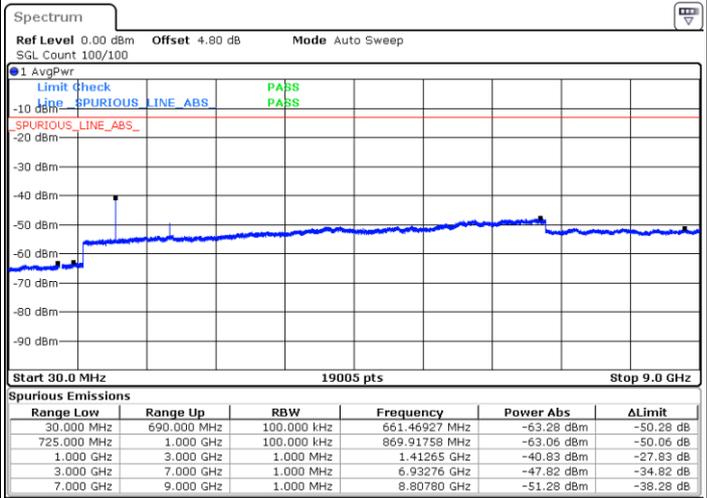
LTE Band 12 / 3MHz

Lowest Channel / QPSK

Middle Channel / QPSK

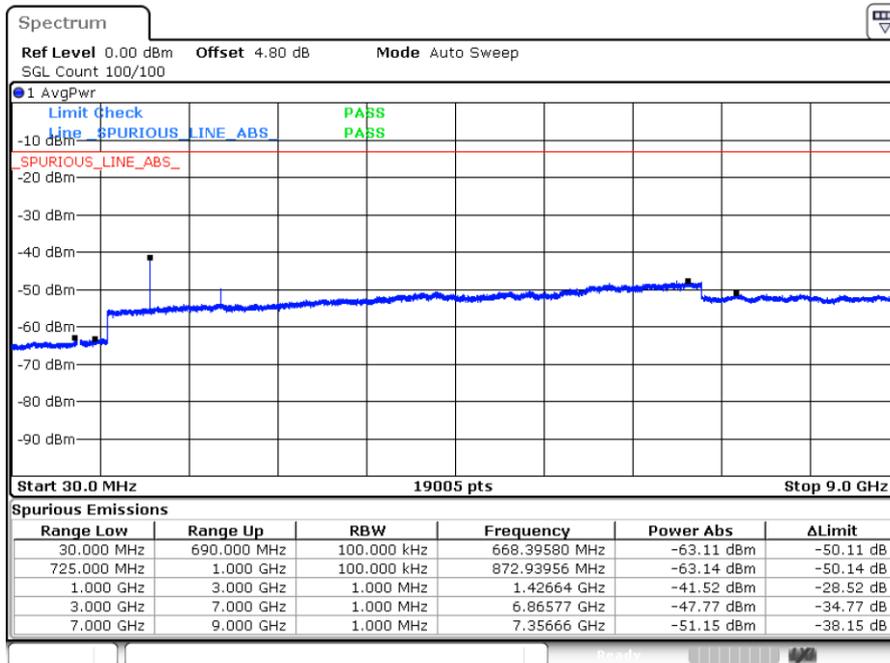


Date: 1.JAN.2021 15:46:09



Date: 1.JAN.2021 15:47:04

Highest Channel / QPSK



Date: 1.JAN.2021 15:48:00