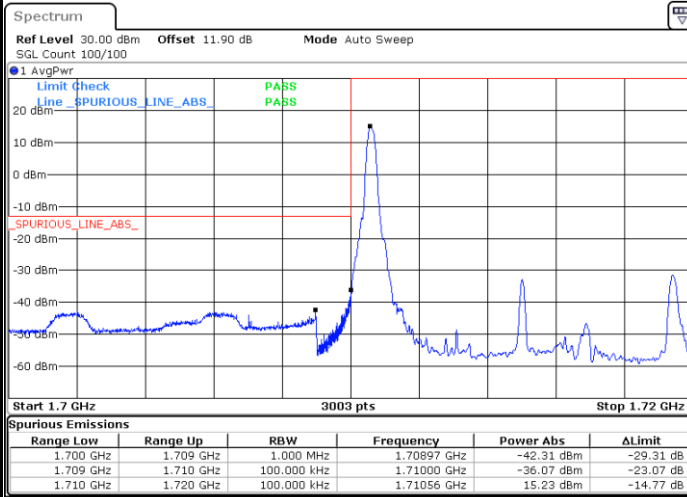




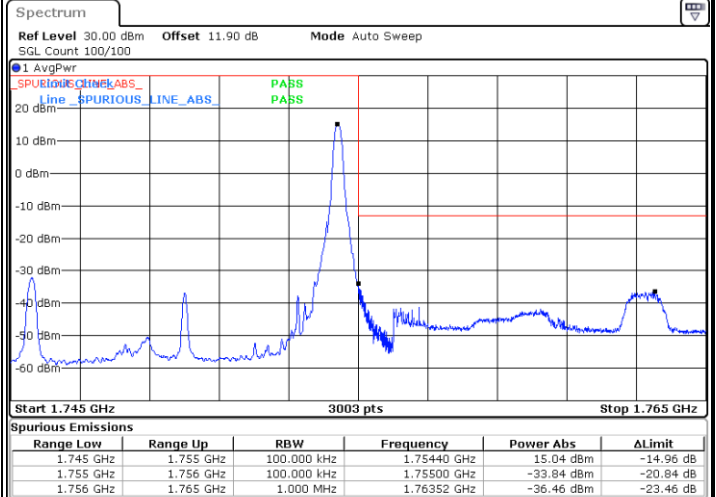
LTE Band 4 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



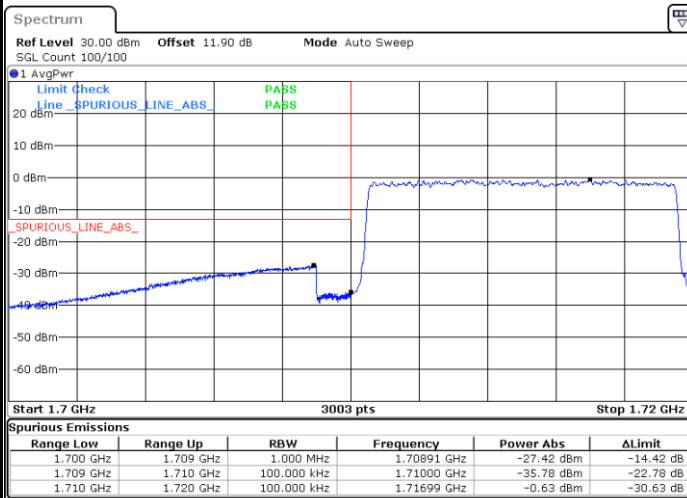
Date: 6.MAY.2021 15:38:12

Highest Band Edge / 1 RB



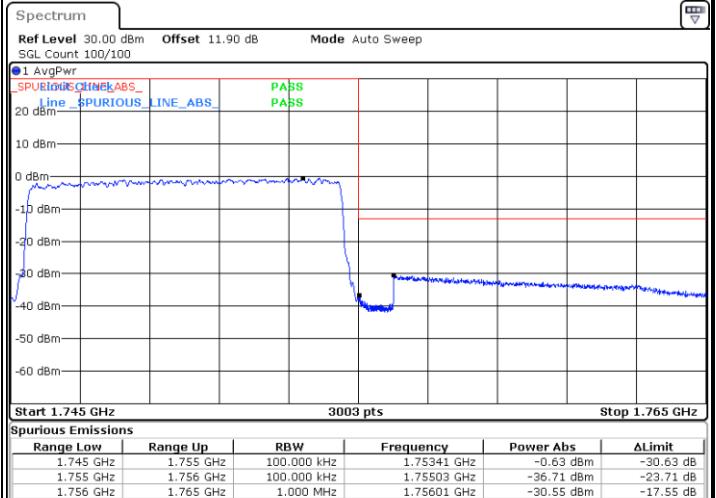
Date: 6.MAY.2021 15:42:55

Lowest Band Edge / Full RB



Date: 6.MAY.2021 15:39:00

Highest Band Edge / Full RB

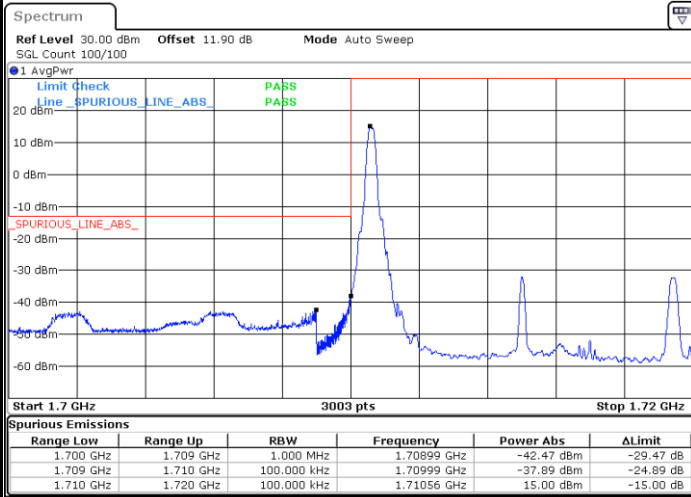


Date: 6.MAY.2021 15:43:44



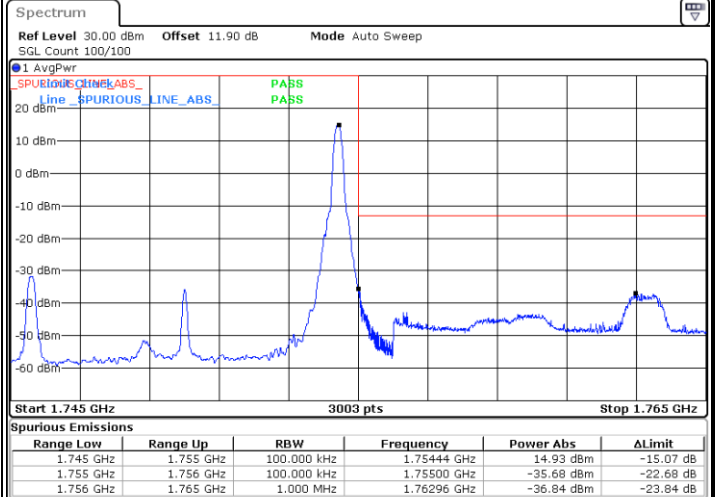
LTE Band 4 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



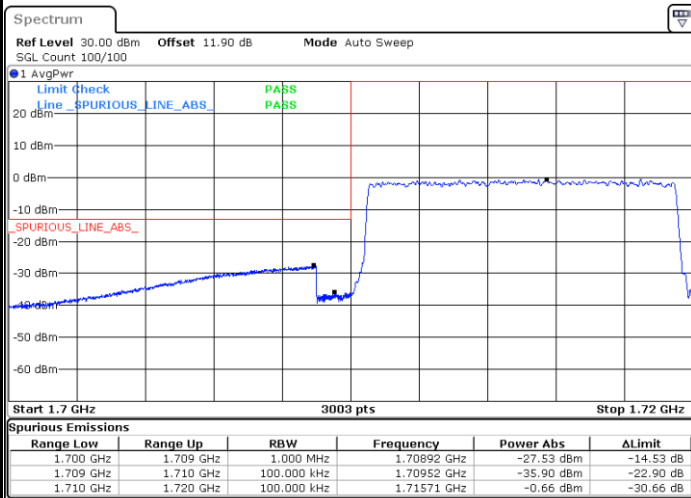
Date: 6.MAY.2021 15:44:59

Highest Band Edge / 1 RB



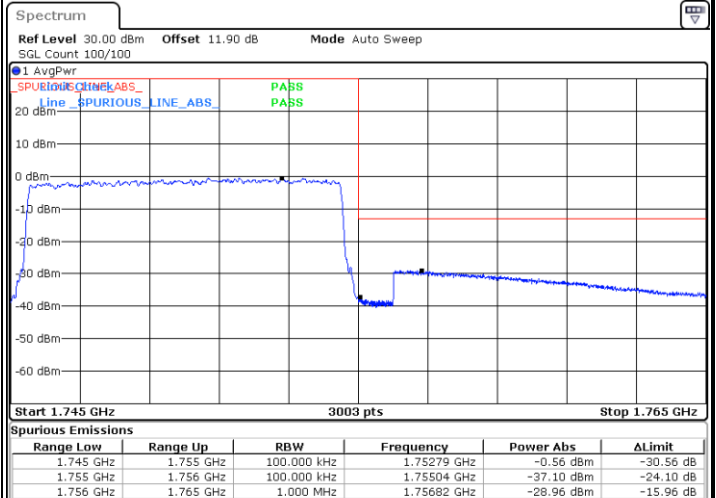
Date: 6.MAY.2021 15:46:31

Lowest Band Edge / Full RB



Date: 6.MAY.2021 15:45:23

Highest Band Edge / Full RB

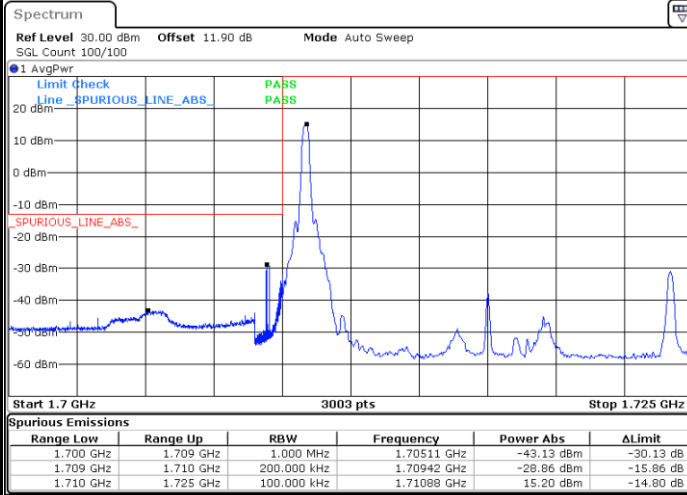


Date: 6.MAY.2021 15:46:56



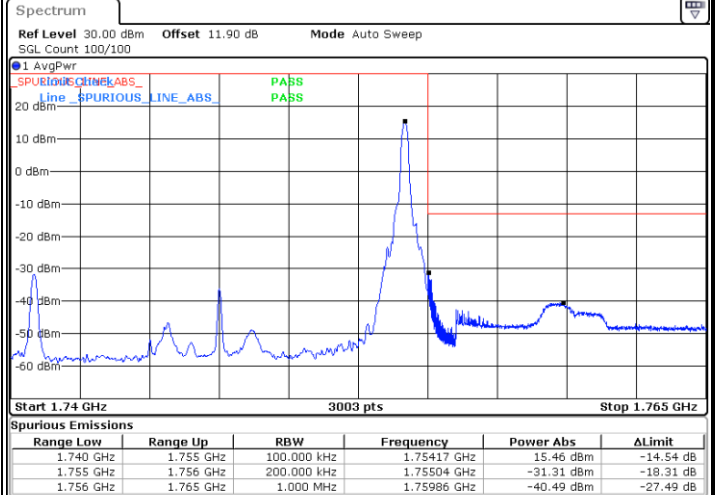
LTE Band 4 / 15MHz / QPSK

Lowest Band Edge / 1 RB



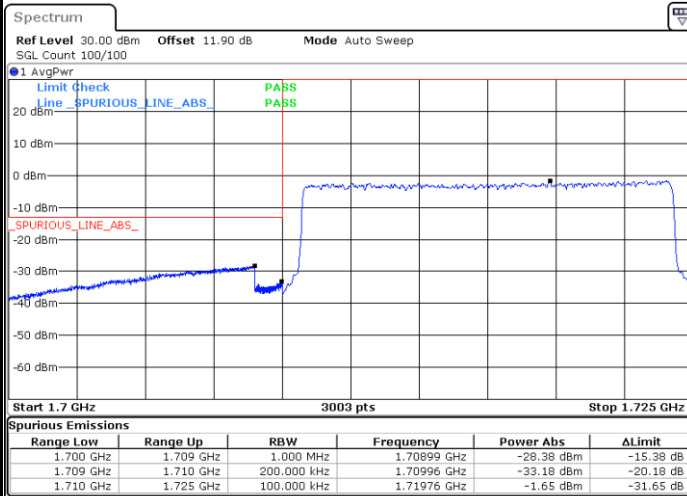
Date: 6.MAY.2021 15:47:21

Highest Band Edge / 1 RB



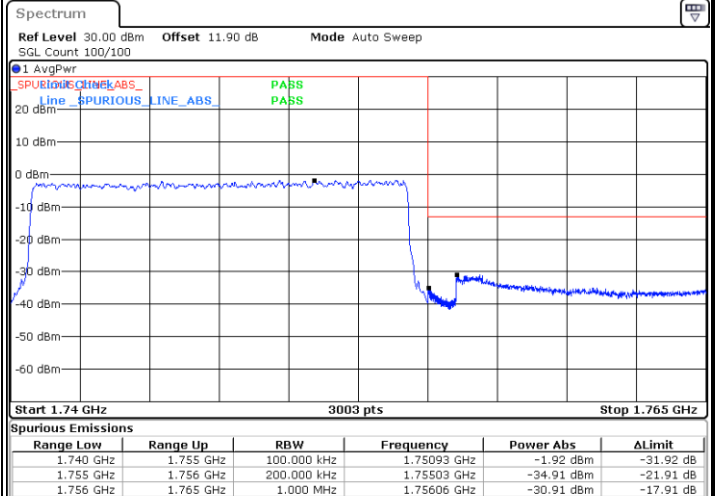
Date: 6.MAY.2021 15:52:06

Lowest Band Edge / Full RB



Date: 6.MAY.2021 15:48:09

Highest Band Edge / Full RB

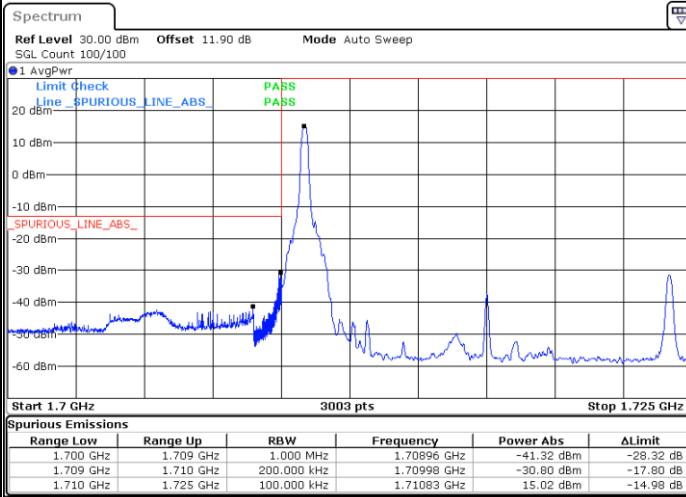


Date: 6.MAY.2021 15:52:55



LTE Band 4 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



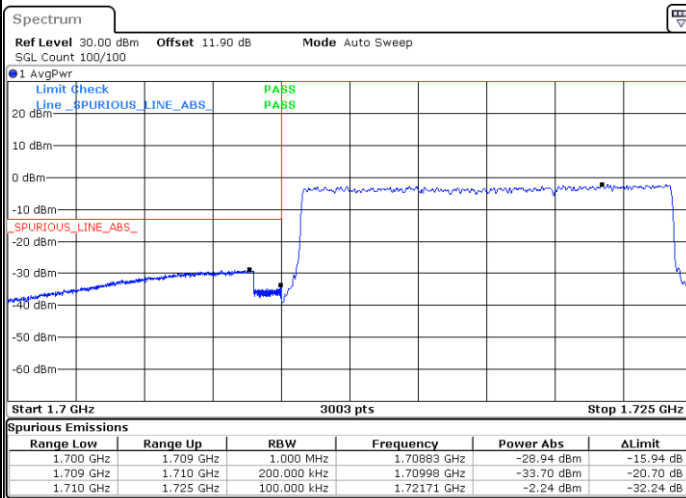
Date: 6.MAY.2021 15:47:44

Highest Band Edge / 1 RB



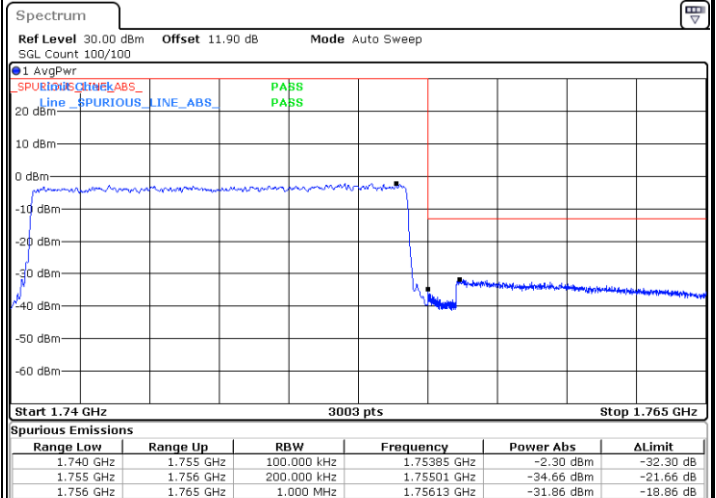
Date: 6.MAY.2021 15:52:31

Lowest Band Edge / Full RB



Date: 6.MAY.2021 15:48:33

Highest Band Edge / Full RB

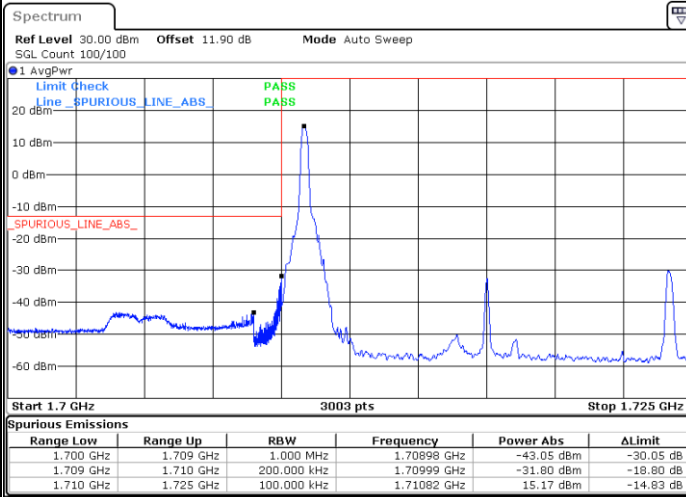


Date: 6.MAY.2021 15:53:19



LTE Band 4 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



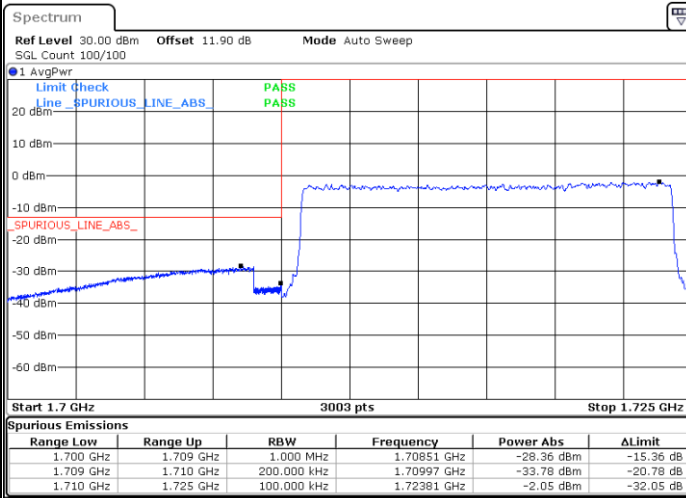
Date: 6.MAY.2021 15:54:35

Highest Band Edge / 1 RB



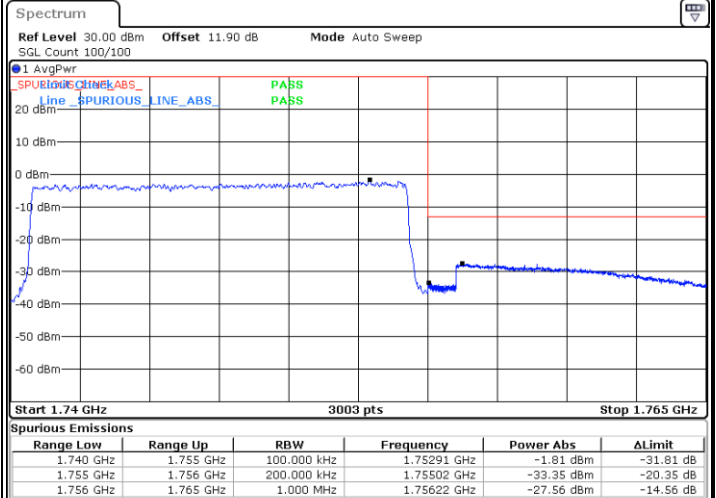
Date: 6.MAY.2021 15:56:06

Lowest Band Edge / Full RB



Date: 6.MAY.2021 15:54:58

Highest Band Edge / Full RB

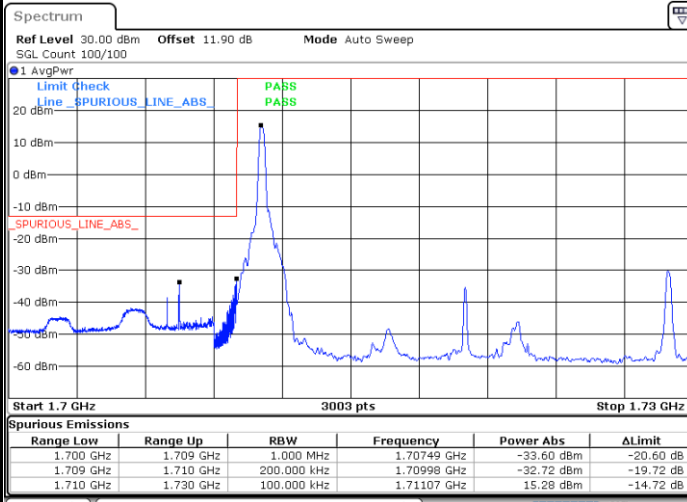


Date: 6.MAY.2021 15:56:31

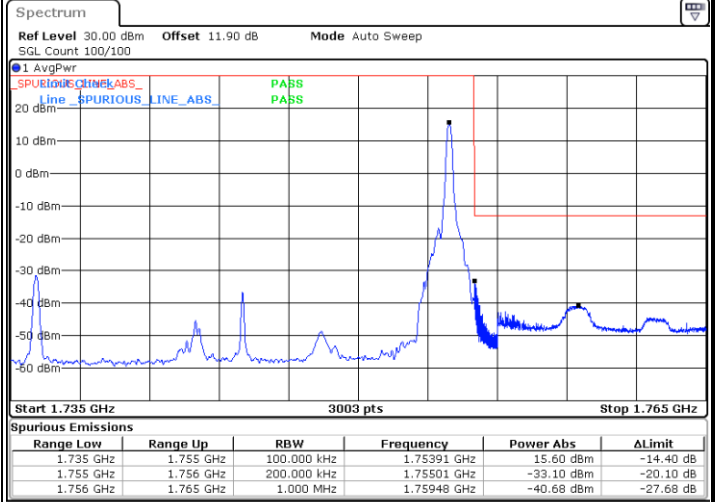


LTE Band 4 / 20MHz / QPSK

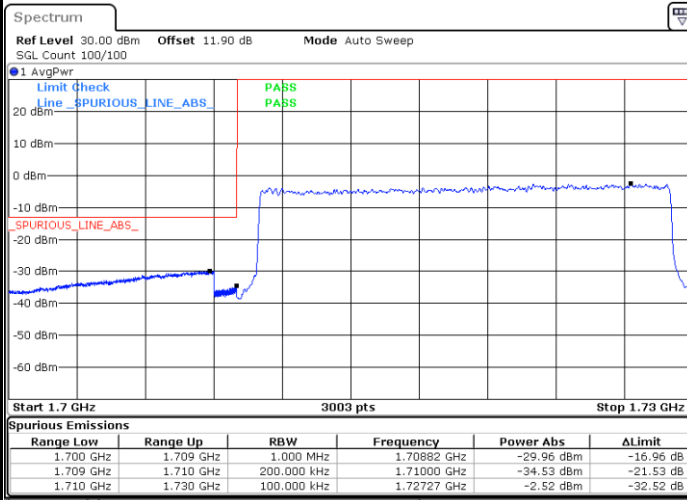
Lowest Band Edge / 1 RB



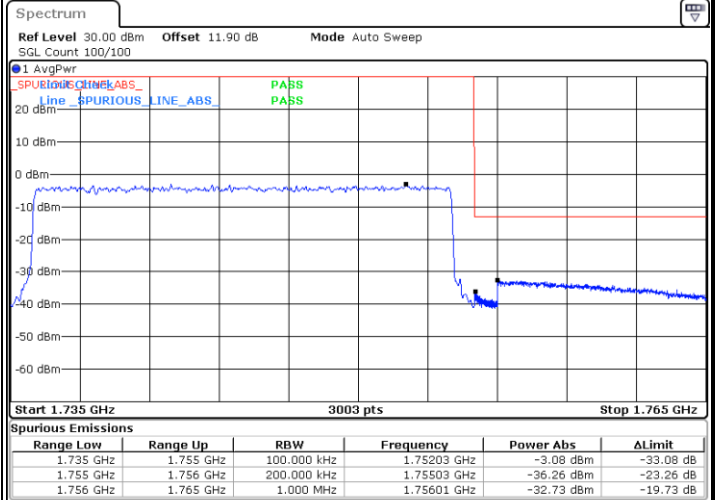
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



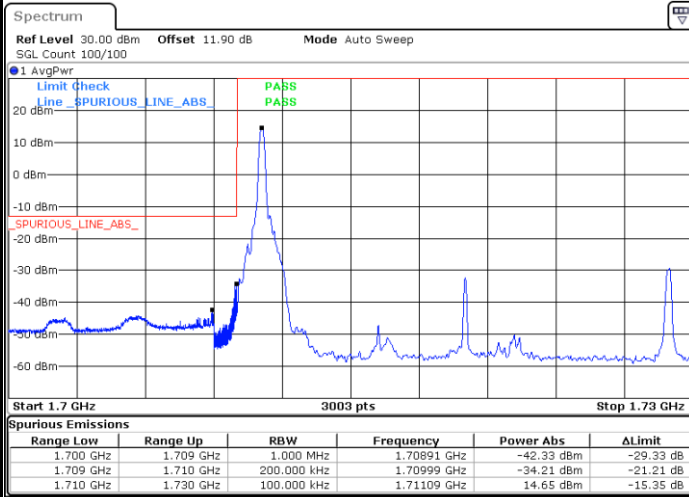
Highest Band Edge / Full RB





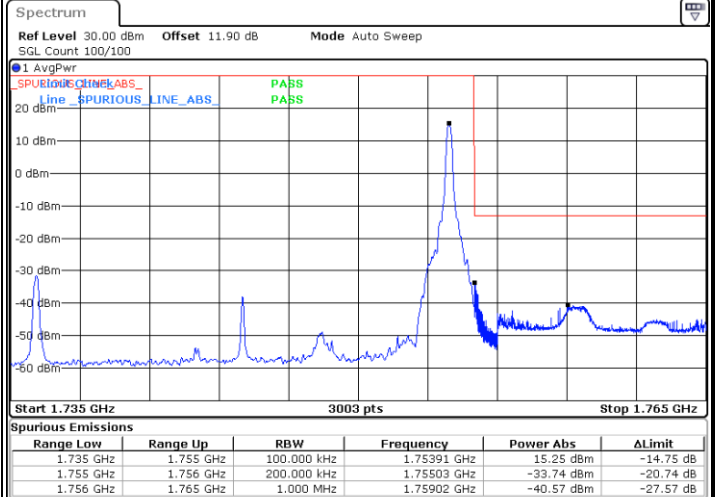
LTE Band 4 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



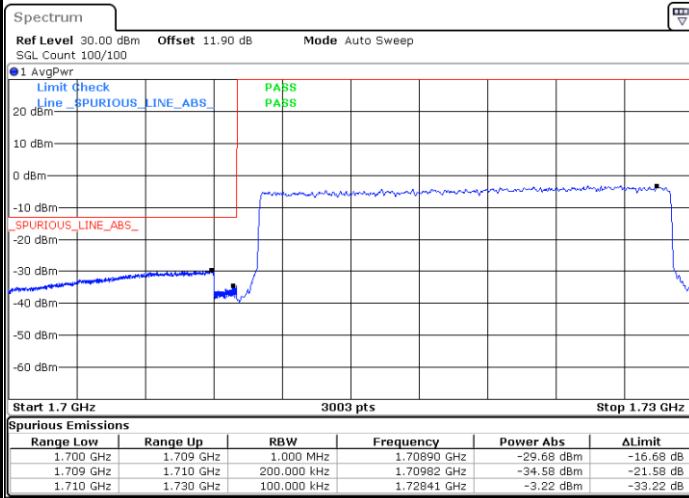
Date: 6.MAY.2021 15:57:21

Highest Band Edge / 1 RB



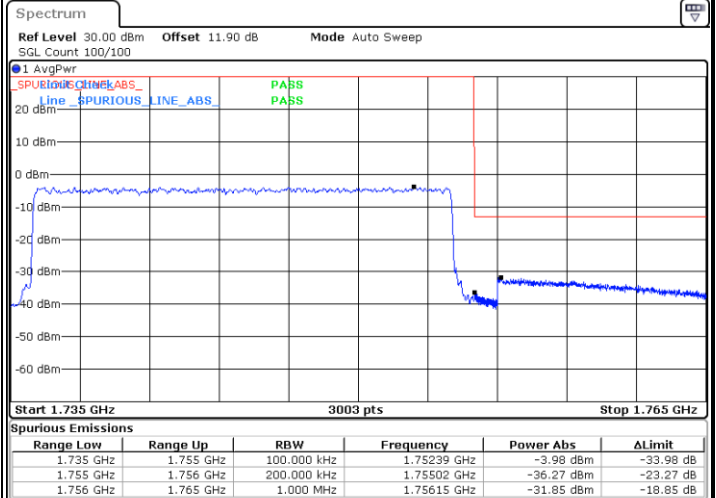
Date: 6.MAY.2021 16:02:05

Lowest Band Edge / Full RB



Date: 6.MAY.2021 15:58:09

Highest Band Edge / Full RB

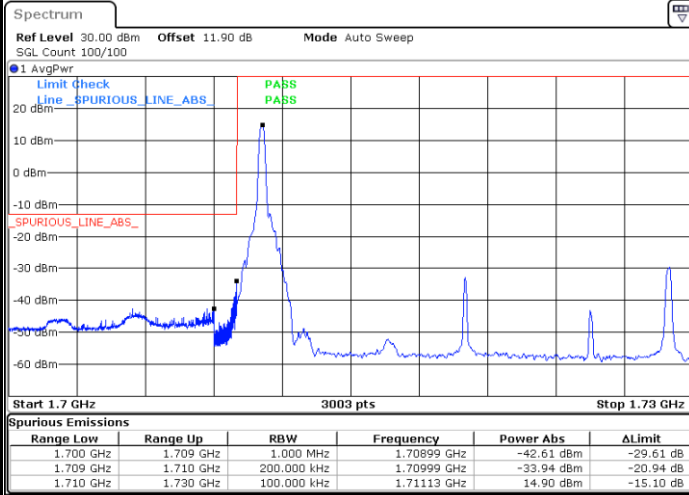


Date: 6.MAY.2021 16:02:53



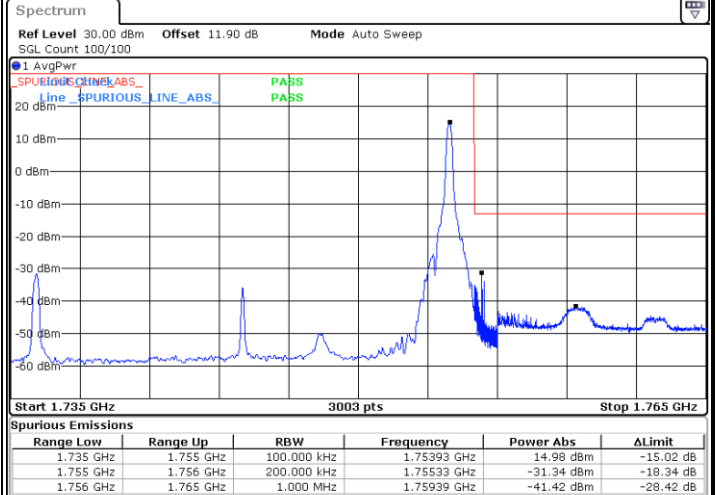
LTE Band 4 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



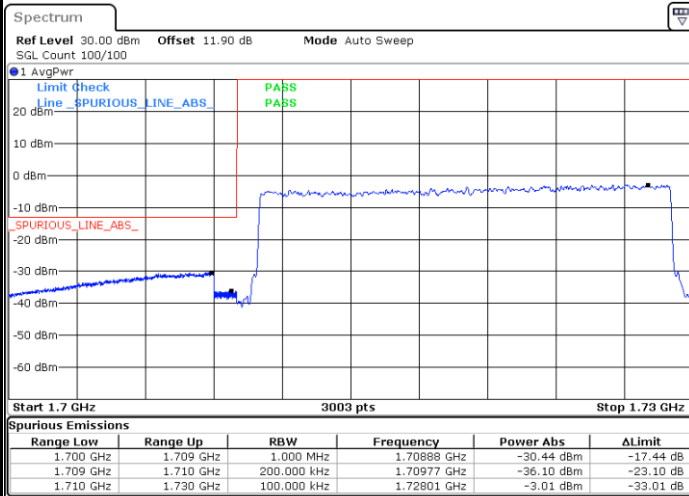
Date: 6.MAY.2021 16:05:59

Highest Band Edge / 1 RB



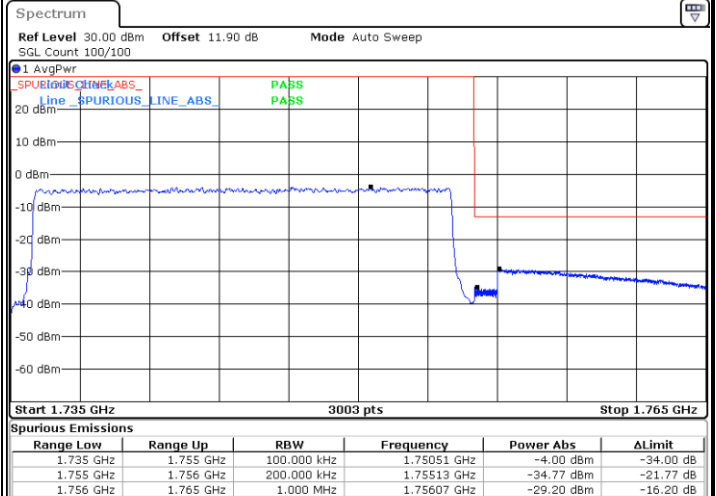
Date: 6.MAY.2021 16:07:30

Lowest Band Edge / Full RB



Date: 6.MAY.2021 16:06:22

Highest Band Edge / Full RB



Date: 6.MAY.2021 16:07:53

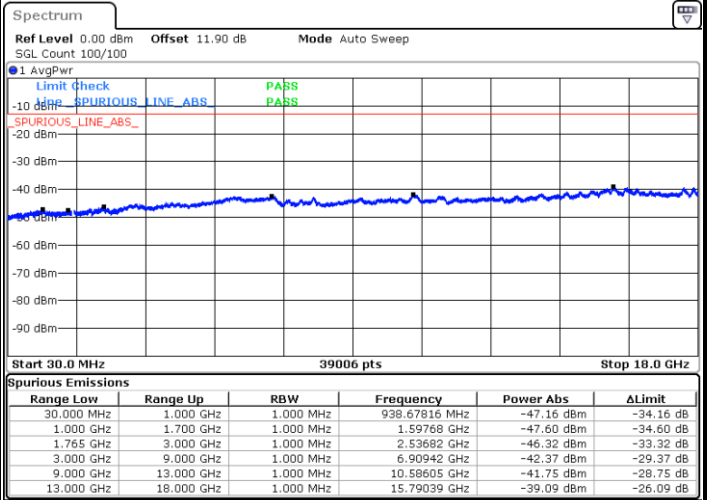
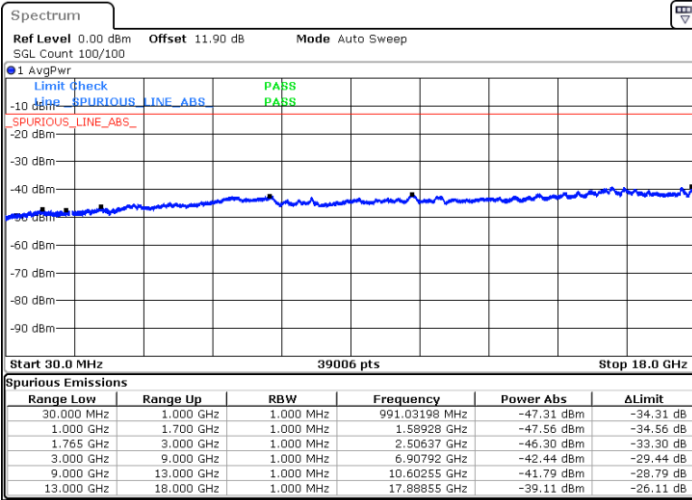


Conducted Spurious Emission

LTE Band 4 / 1.4MHz

Lowest Channel / QPSK

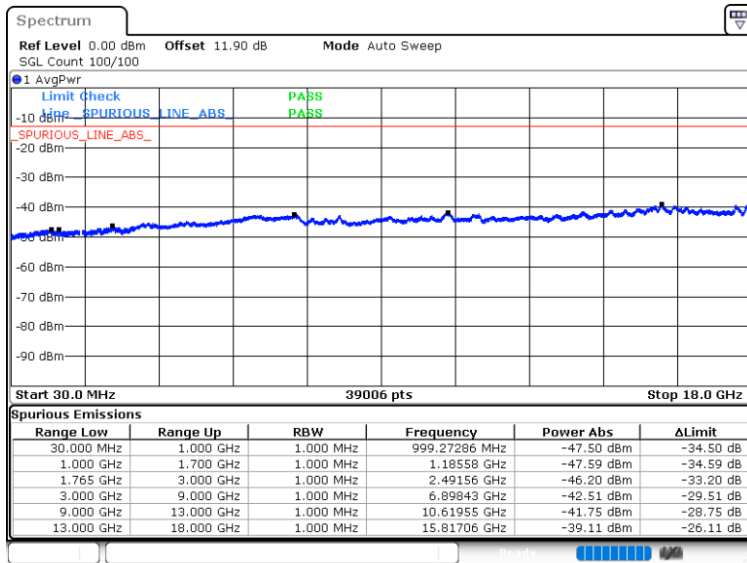
Middle Channel / QPSK



Date: 6.MAY.2021 15:11:23

Date: 6.MAY.2021 15:13:40

Highest Channel / QPSK



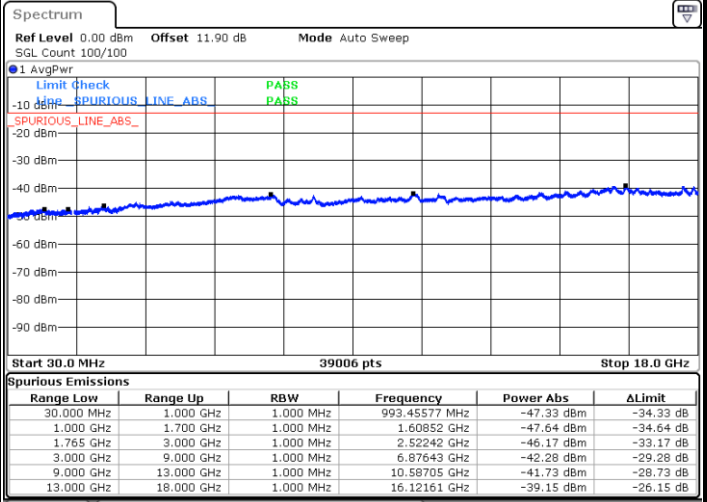
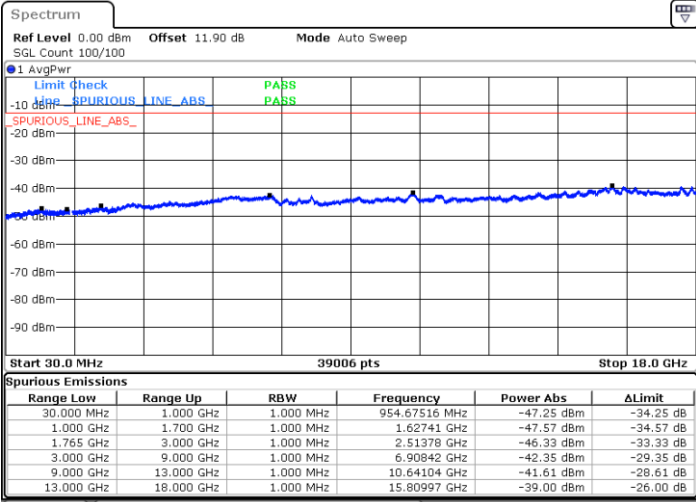
Date: 6.MAY.2021 15:16:06



LTE Band 4 / 3MHz

Lowest Channel / QPSK

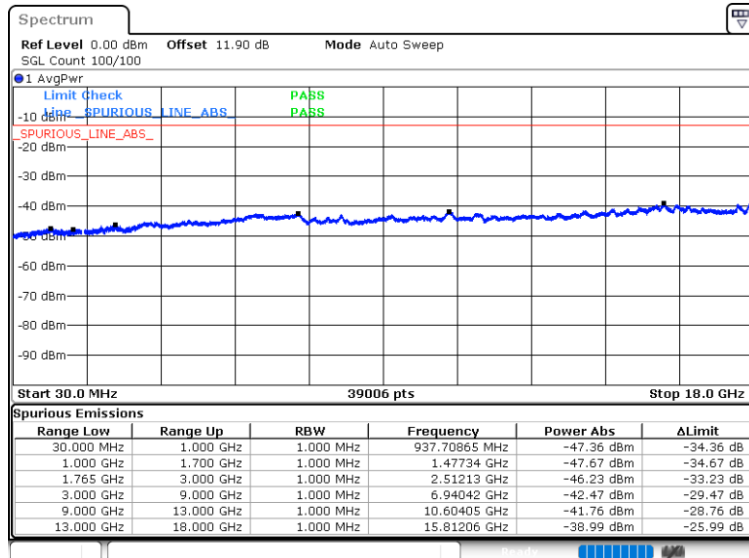
Middle Channel / QPSK



Date: 6.MAY.2021 15:20:50

Date: 6.MAY.2021 15:23:08

Highest Channel / QPSK



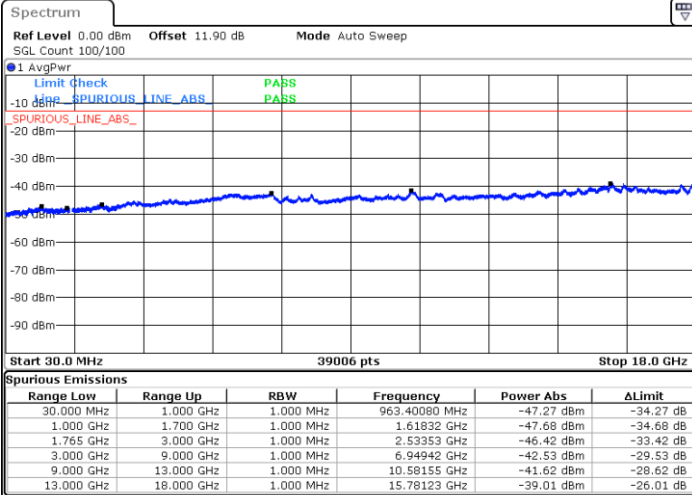
Date: 6.MAY.2021 15:25:34



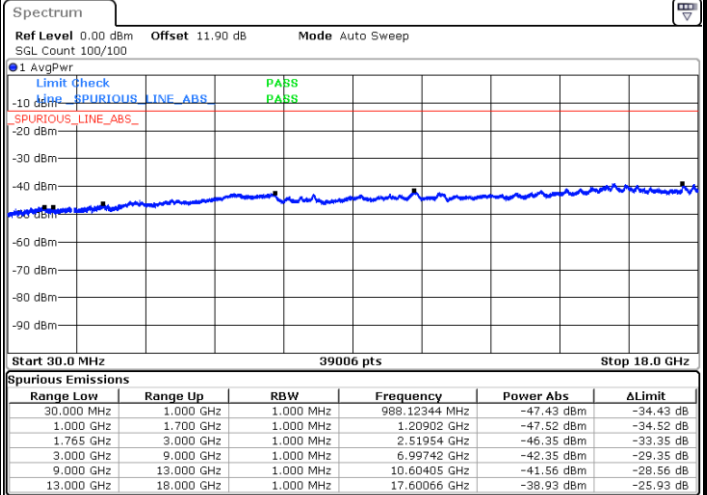
LTE Band 4 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK

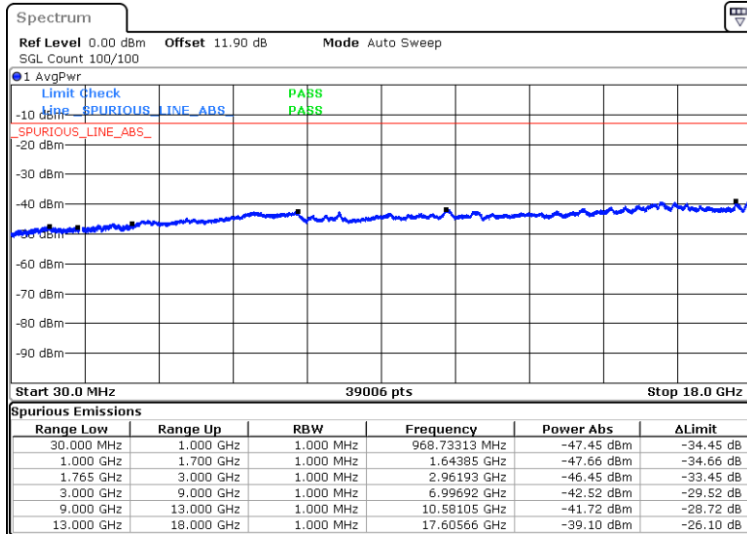


Date: 6.MAY.2021 15:32:40



Date: 6.MAY.2021 15:34:57

Highest Channel / QPSK



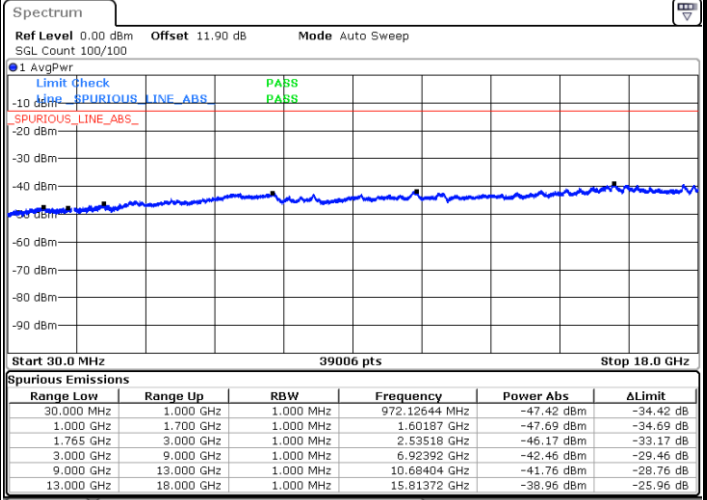
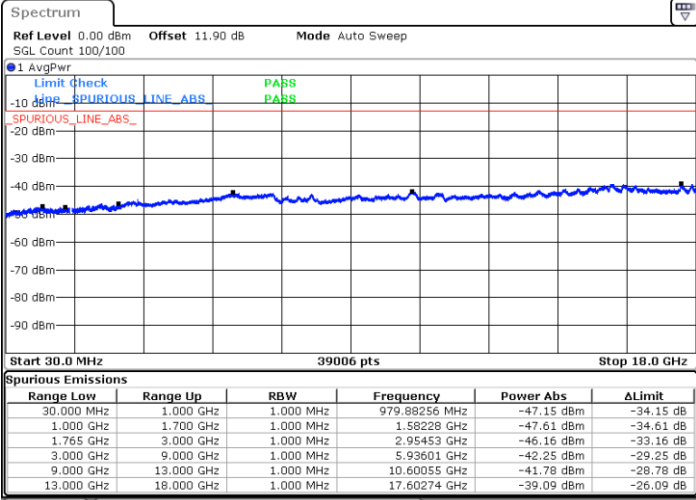
Date: 6.MAY.2021 15:37:23



LTE Band 4 / 10MHz

Lowest Channel / QPSK

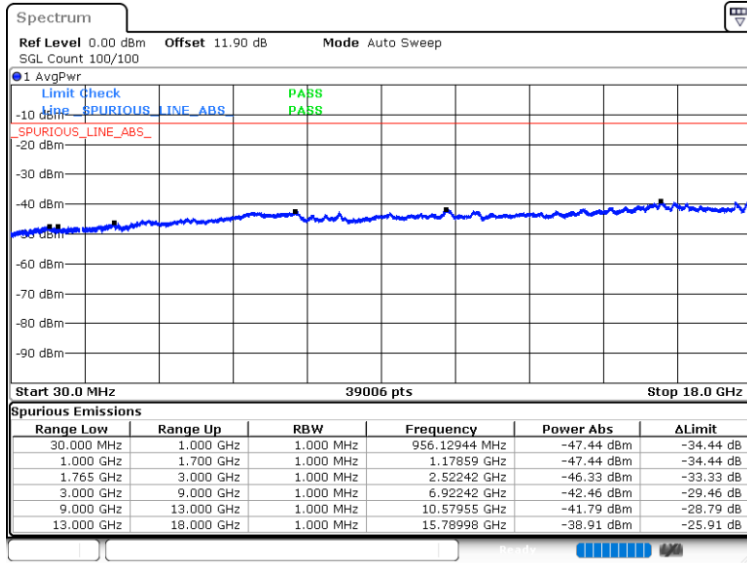
Middle Channel / QPSK



Date: 6.MAY.2021 15:39:50

Date: 6.MAY.2021 15:42:07

Highest Channel / QPSK



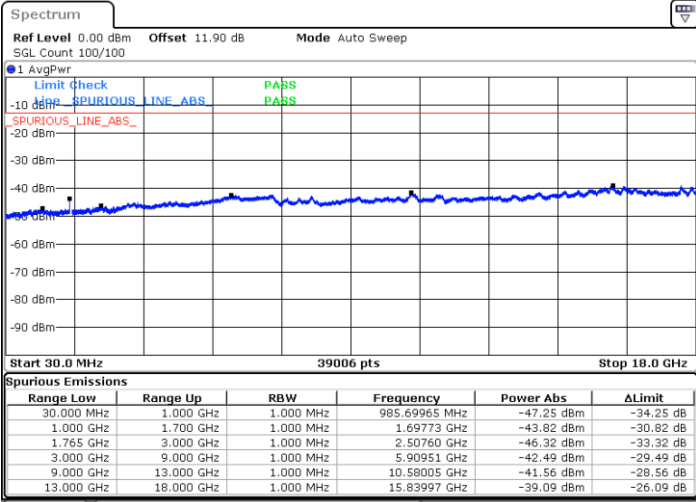
Date: 6.MAY.2021 15:44:34



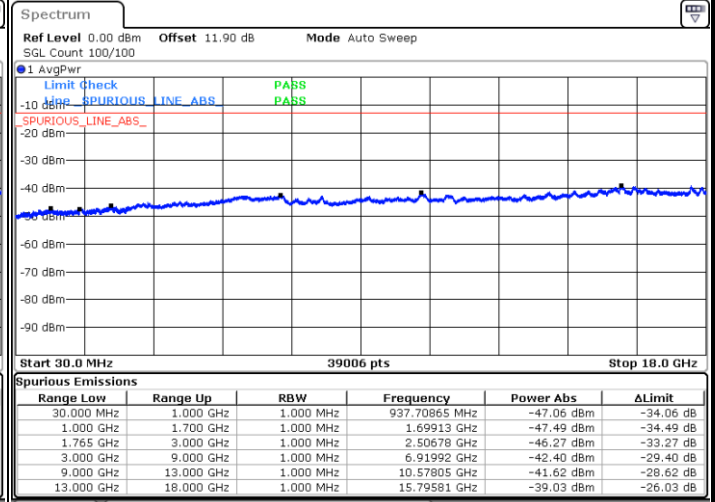
LTE Band 4 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK

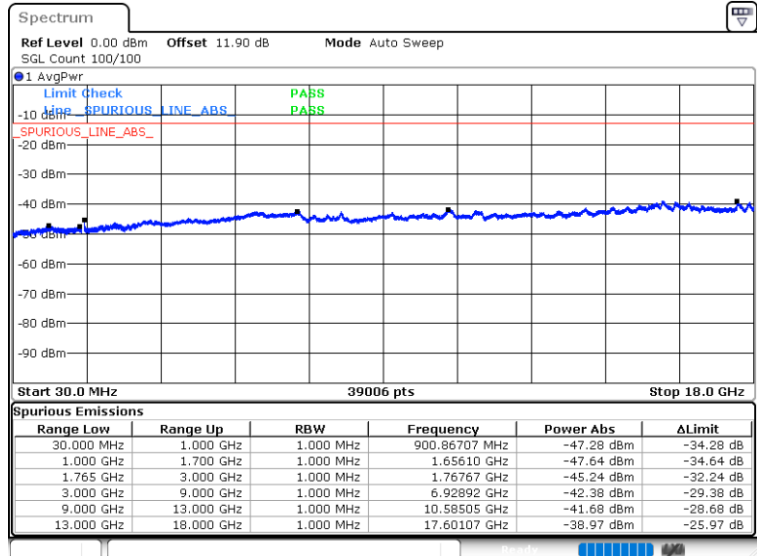


Date: 6.MAY.2021 15:49:25



Date: 6.MAY.2021 15:51:42

Highest Channel / QPSK



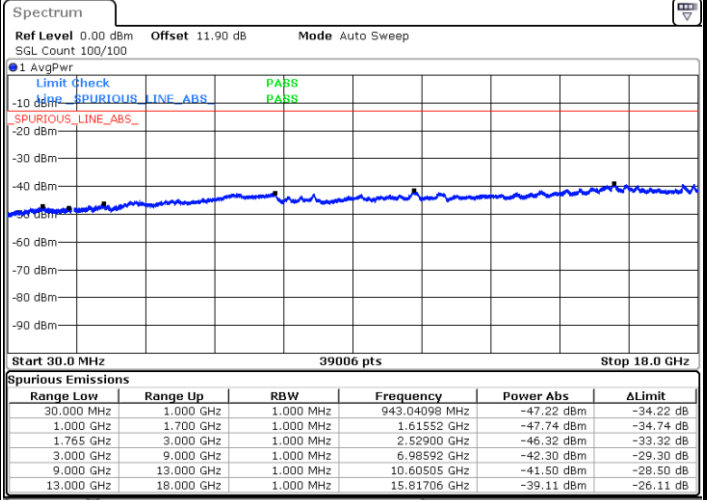
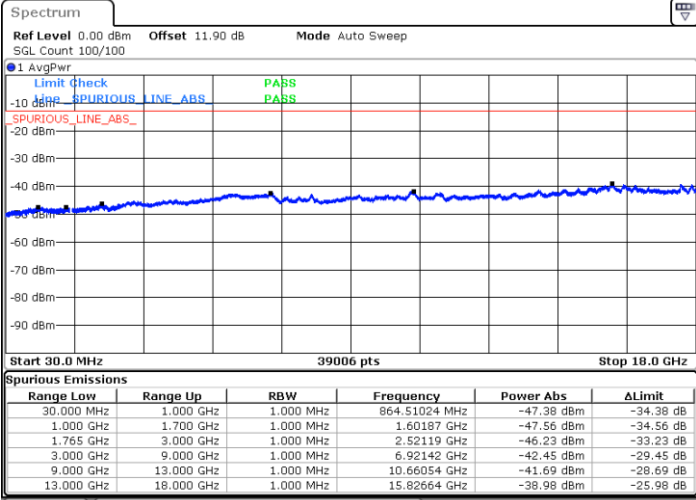
Date: 6.MAY.2021 15:54:11



LTE Band 4 / 20MHz

Lowest Channel / QPSK

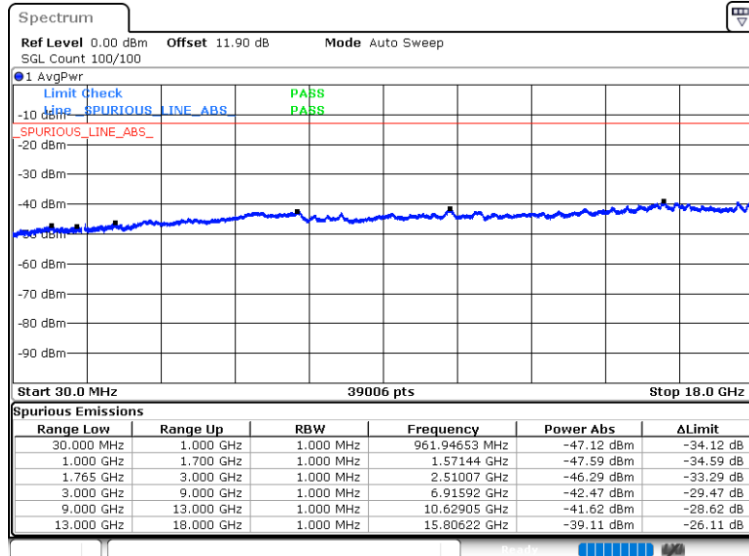
Middle Channel / QPSK



Date: 6.MAY.2021 15:59:00

Date: 6.MAY.2021 16:01:18

Highest Channel / QPSK



Date: 6.MAY.2021 16:05:34



Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0009	PASS
40	Normal Voltage	0.0110	
30	Normal Voltage	0.0102	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0099	
0	Normal Voltage	0.0002	
-10	Normal Voltage	0.0077	
-20	Normal Voltage	0.0001	
-30	Normal Voltage	0.0016	
20	Maximum Voltage	0.0013	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0089	

Note:

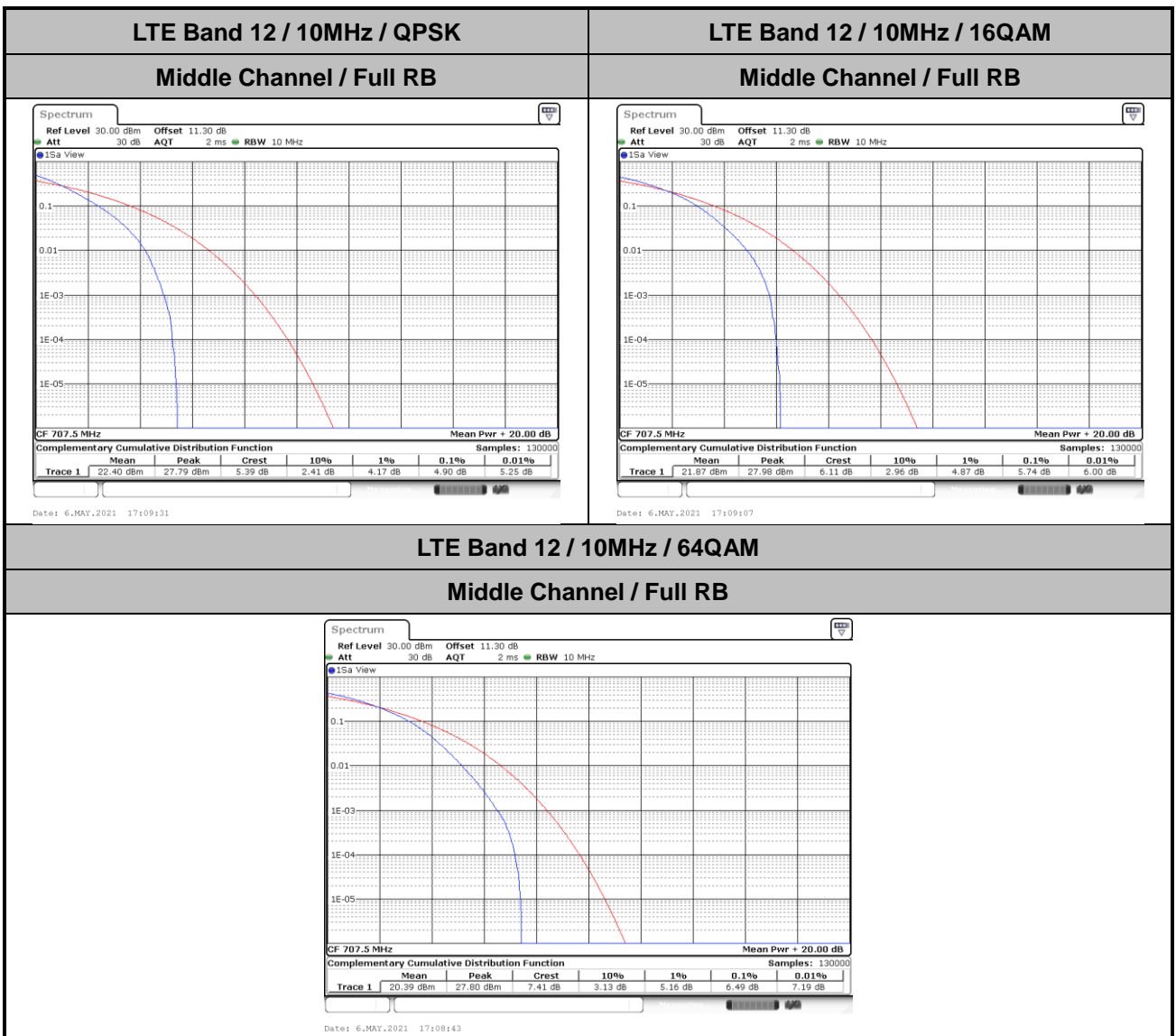
- 1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.67 V. ; Maximum Voltage =4.26 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 12

Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.90	5.74	6.49	-	PASS





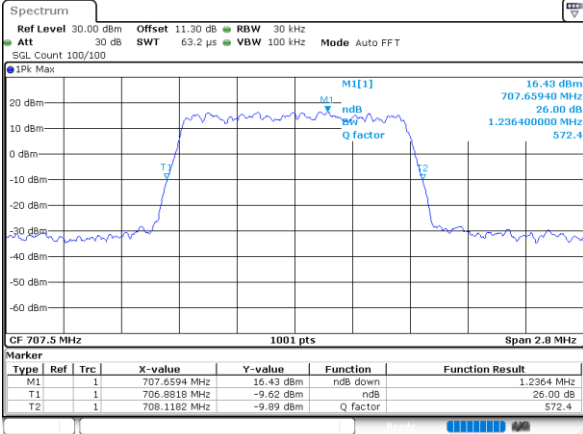
26dB Bandwidth

Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.24	1.23	3.01	2.99	4.93	4.90	9.69	9.67	-	-	-	-
Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	1.21	-	3.01	-	4.84	-	9.89	-	-	-	-	-



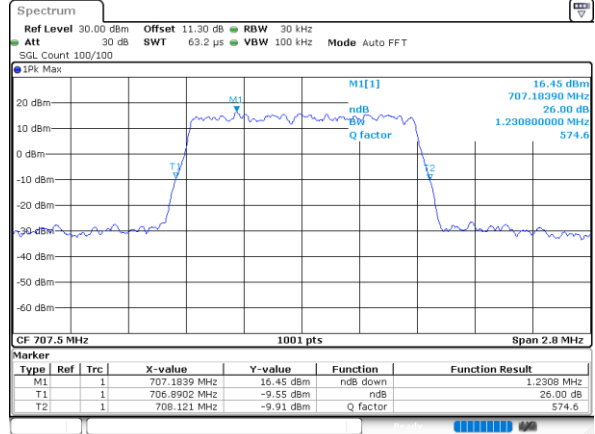
LTE Band 12

Middle Channel / 1.4MHz / QPSK



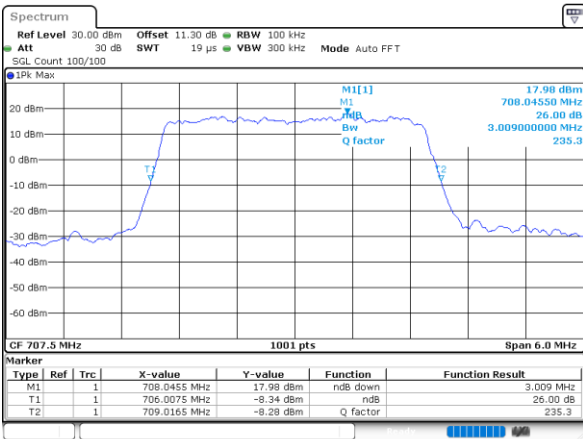
Date: 6.MAY.2021 16:17:58

Middle Channel / 1.4MHz / 16QAM



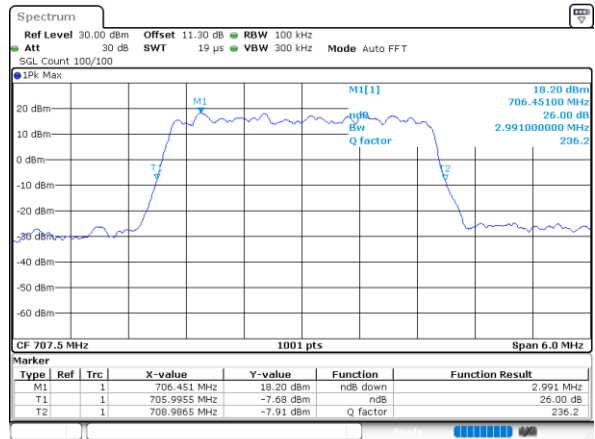
Date: 6.MAY.2021 16:18:19

Middle Channel / 3MHz / QPSK



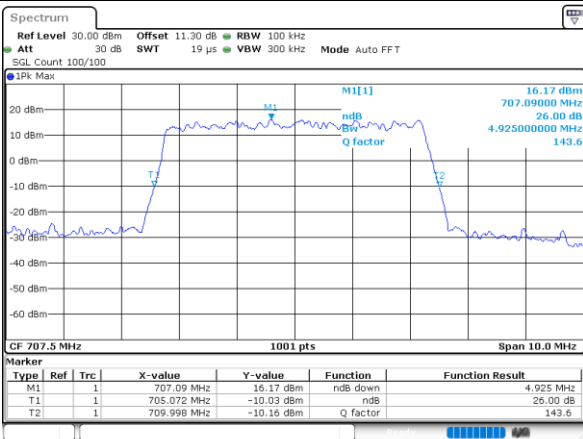
Date: 6.MAY.2021 16:31:33

Middle Channel / 3MHz / 16QAM



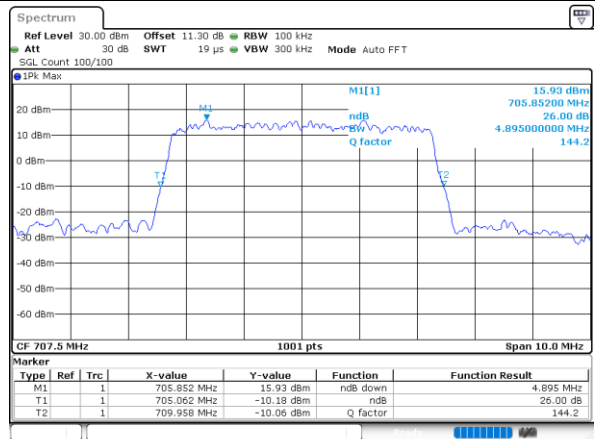
Date: 6.MAY.2021 16:31:54

Middle Channel / 5MHz / QPSK



Date: 6.MAY.2021 16:49:48

Middle Channel / 5MHz / 16QAM

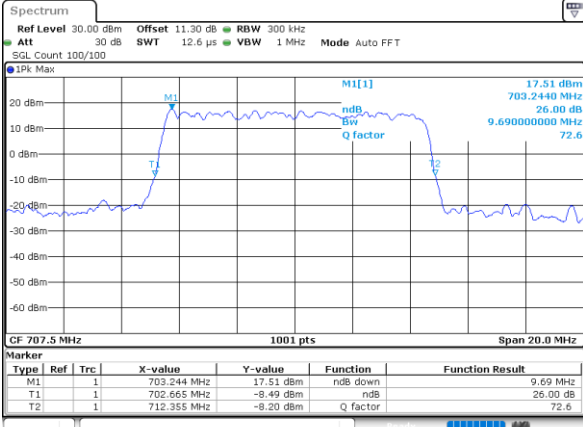


Date: 6.MAY.2021 16:50:09



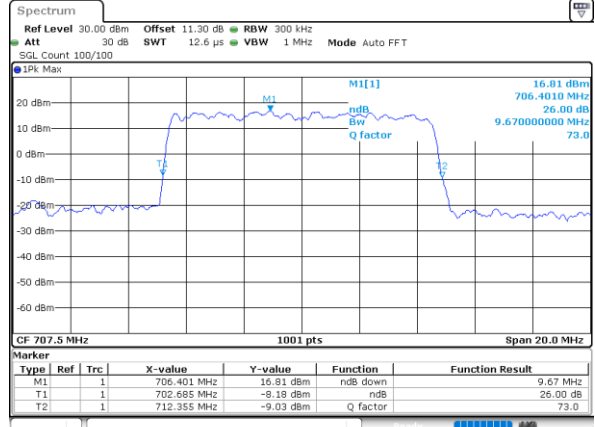
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 6.MAY.2021 16:59:41

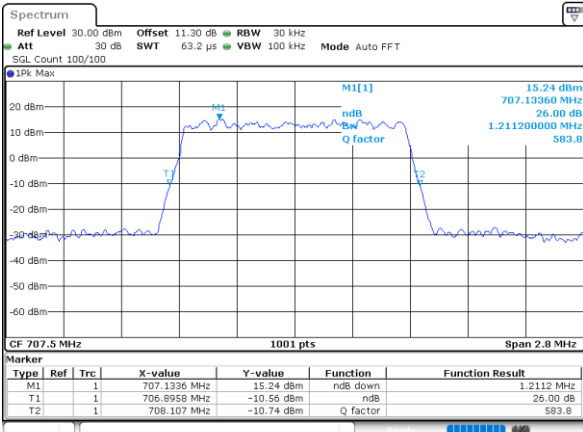
Middle Channel / 10MHz / 16QAM



Date: 6.MAY.2021 17:00:02

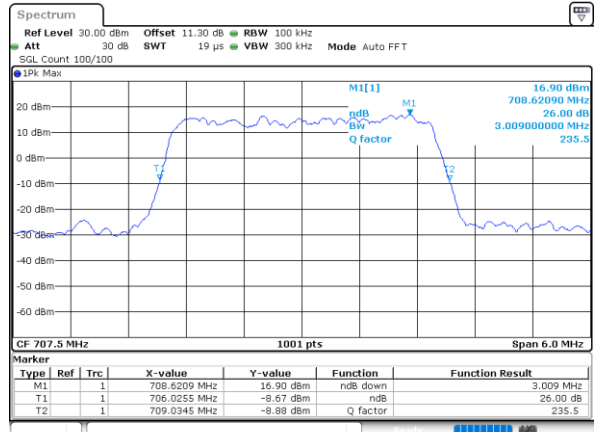
LTE Band 12

Middle Channel / 1.4MHz / 64QAM



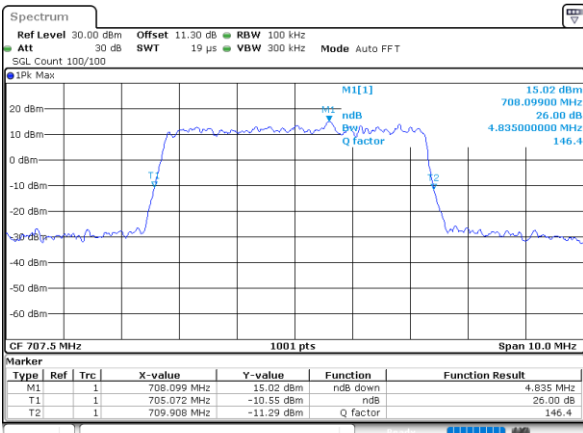
Date: 6.MAY.2021 16:25:10

Middle Channel / 3MHz / 64QAM



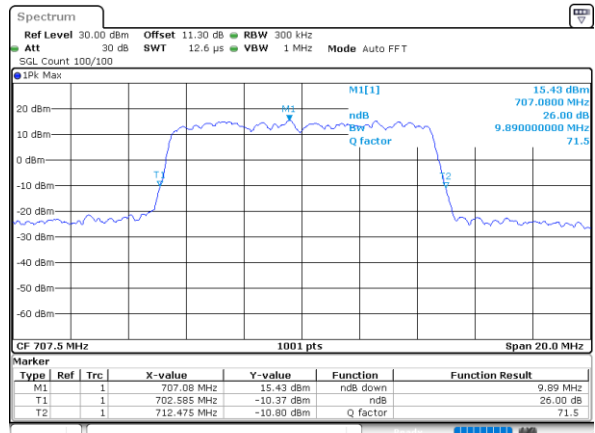
Date: 6.MAY.2021 16:38:42

Middle Channel / 5MHz / 64QAM



Date: 6.MAY.2021 16:42:23

Middle Channel / 10MHz / 64QAM



Date: 6.MAY.2021 17:06:53



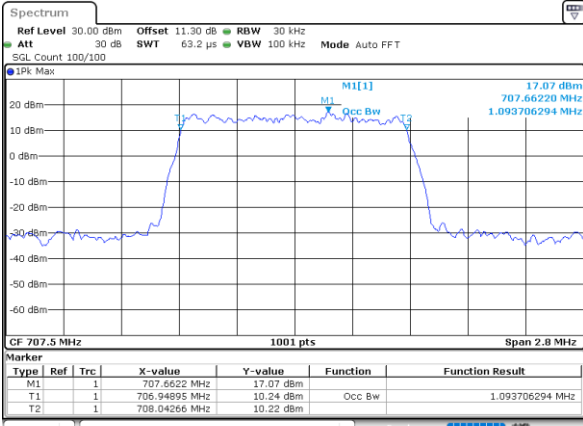
Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.09	1.09	2.73	2.72	4.48	4.48	9.05	8.97	-	-	-	-
Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	1.08	-	2.70	-	4.50	-	9.09	-	-	-	-	-



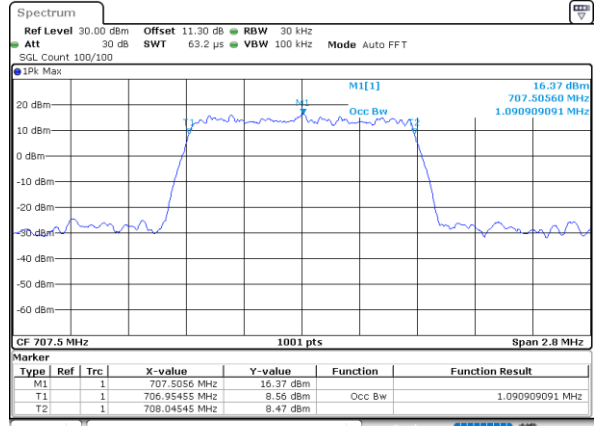
LTE Band 12

Middle Channel / 1.4MHz / QPSK



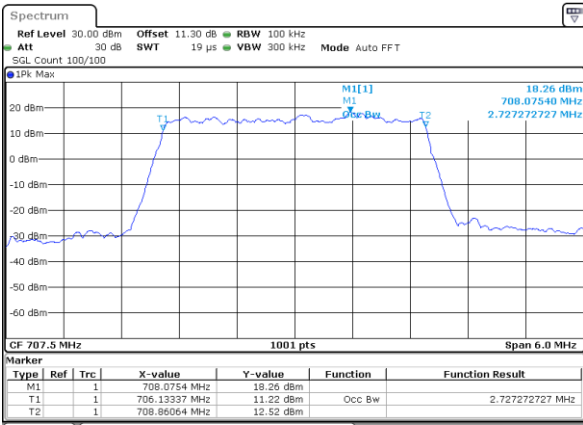
Date: 6.MAY.2021 16:17:36

Middle Channel / 1.4MHz / 16QAM



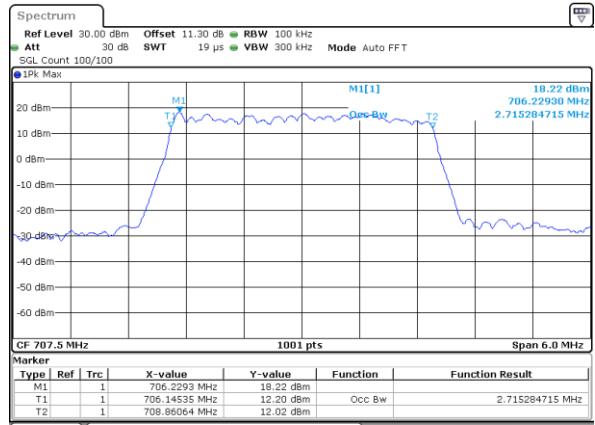
Date: 6.MAY.2021 16:17:13

Middle Channel / 3MHz / QPSK



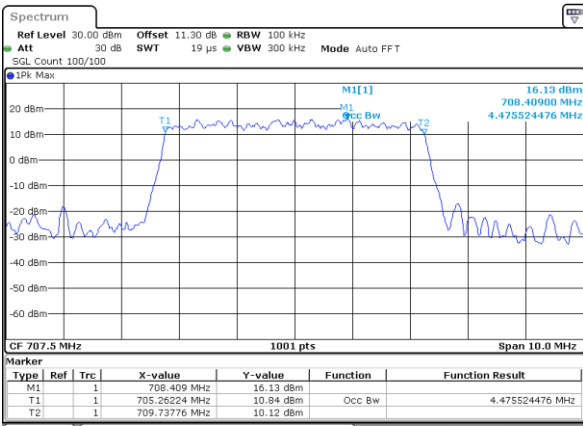
Date: 6.MAY.2021 16:31:10

Middle Channel / 3MHz / 16QAM



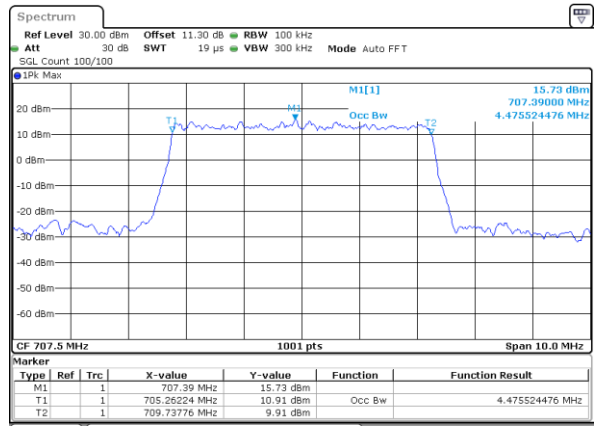
Date: 6.MAY.2021 16:30:48

Middle Channel / 5MHz / QPSK



Date: 6.MAY.2021 16:49:26

Middle Channel / 5MHz / 16QAM

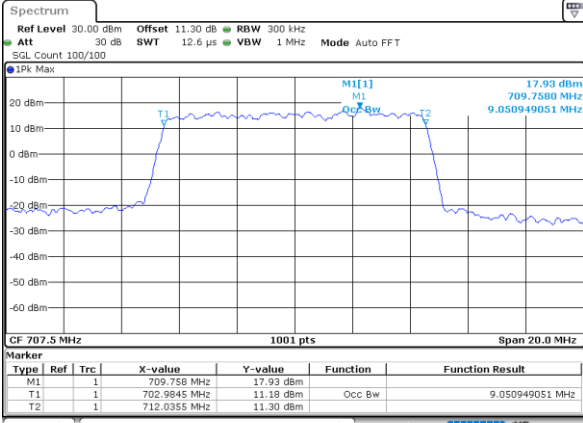


Date: 6.MAY.2021 16:49:03



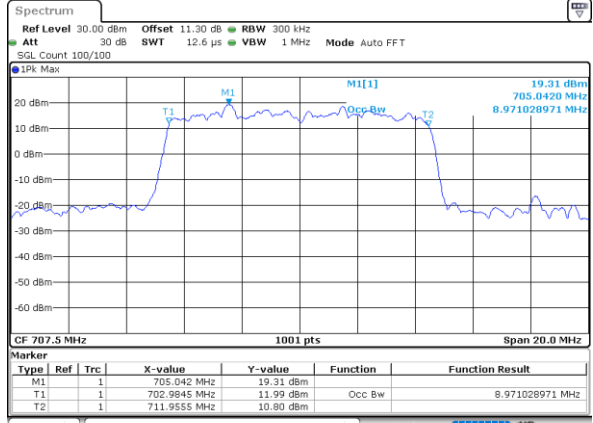
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 6.MAY.2021 16:59:19

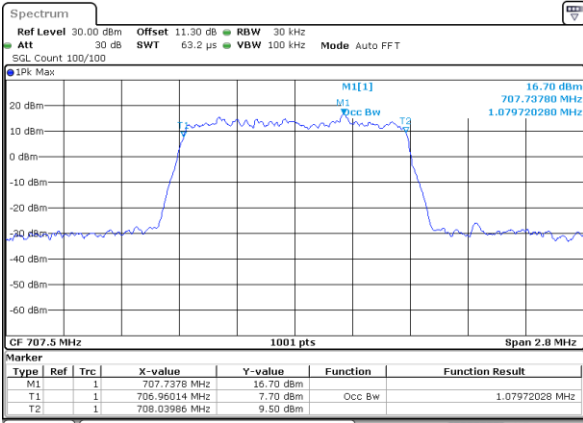
Middle Channel / 10MHz / 16QAM



Date: 6.MAY.2021 16:58:56

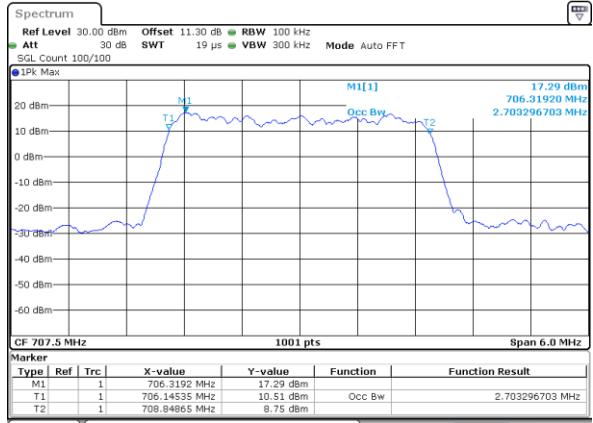
LTE Band 12

Middle Channel / 1.4MHz / 64QAM



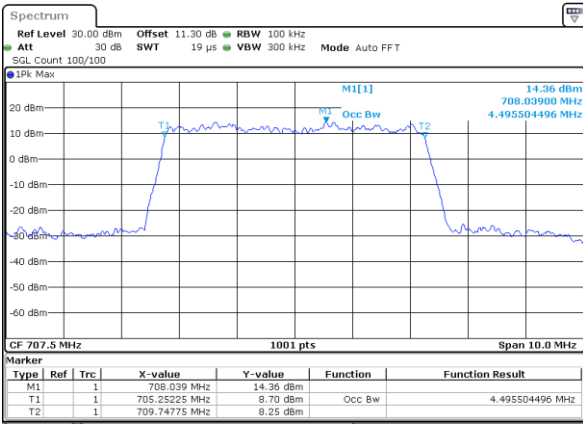
Date: 6.MAY.2021 16:24:47

Middle Channel / 3MHz / 64QAM



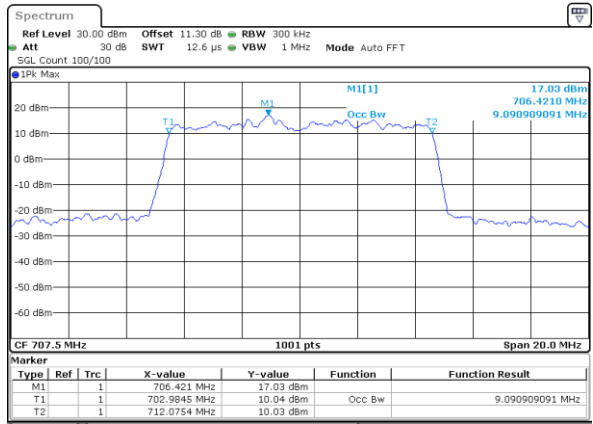
Date: 6.MAY.2021 16:38:20

Middle Channel / 5MHz / 64QAM



Date: 6.MAY.2021 16:42:00

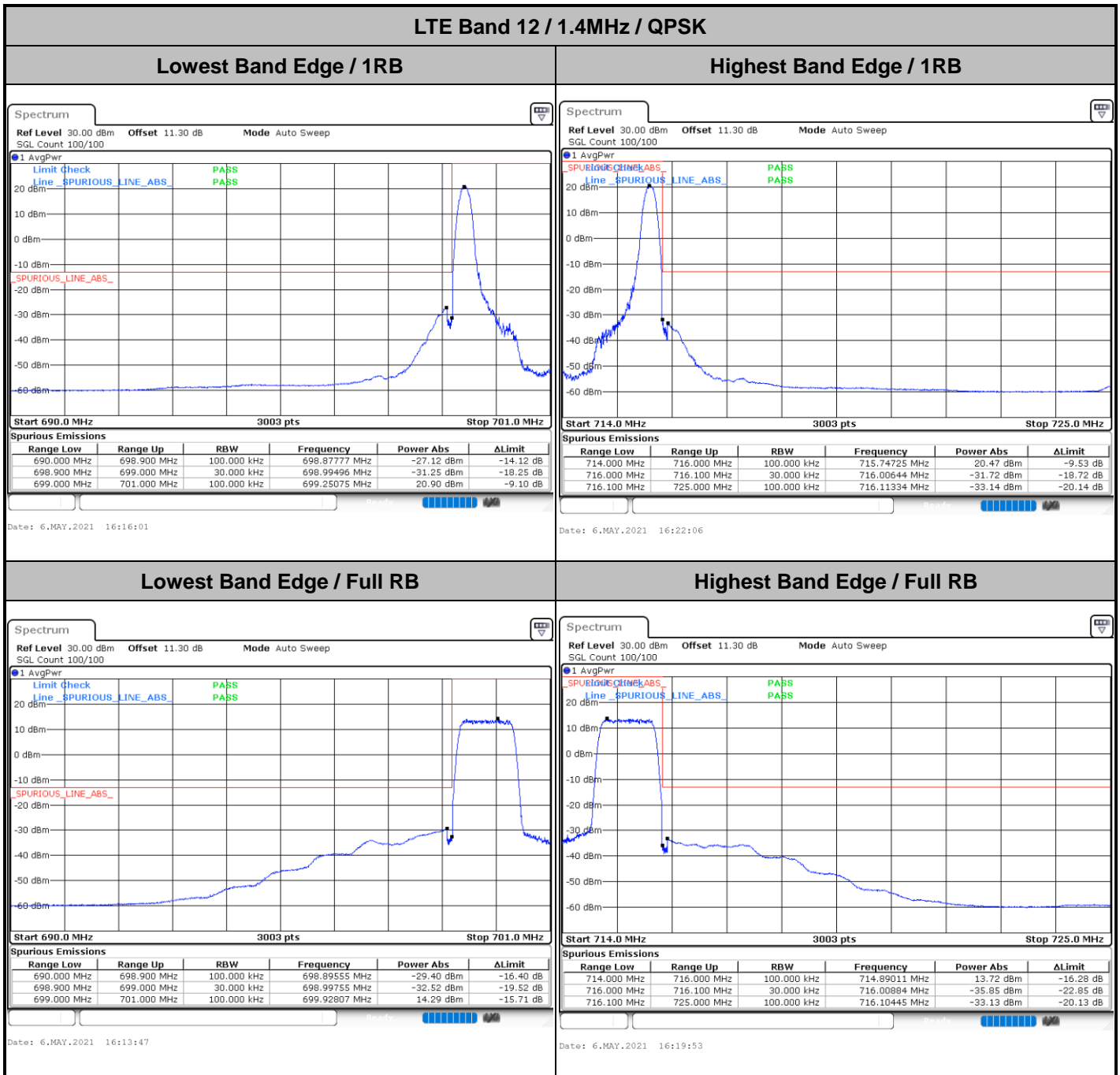
Middle Channel / 10MHz / 64QAM



Date: 6.MAY.2021 17:06:30



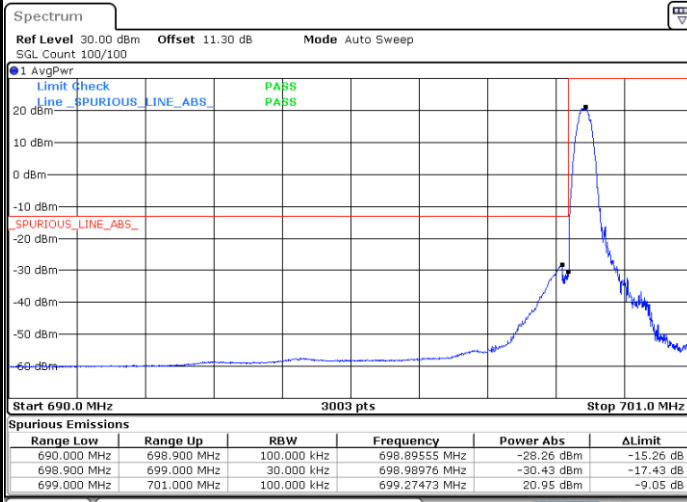
Conducted Band Edge





LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



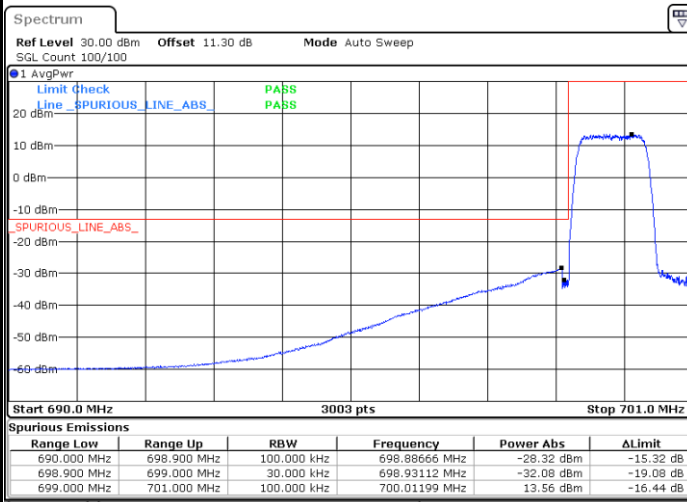
Date: 6.MAY.2021 16:15:17

Highest Band Edge / 1 RB



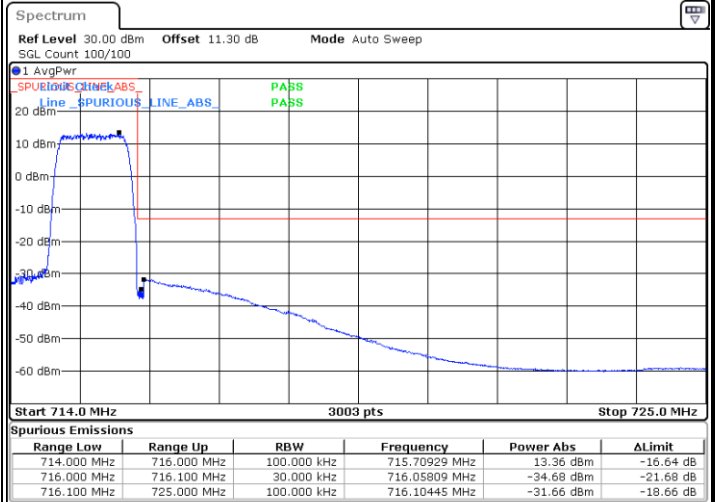
Date: 6.MAY.2021 16:21:22

Lowest Band Edge / Full RB



Date: 6.MAY.2021 16:14:32

Highest Band Edge / Full RB

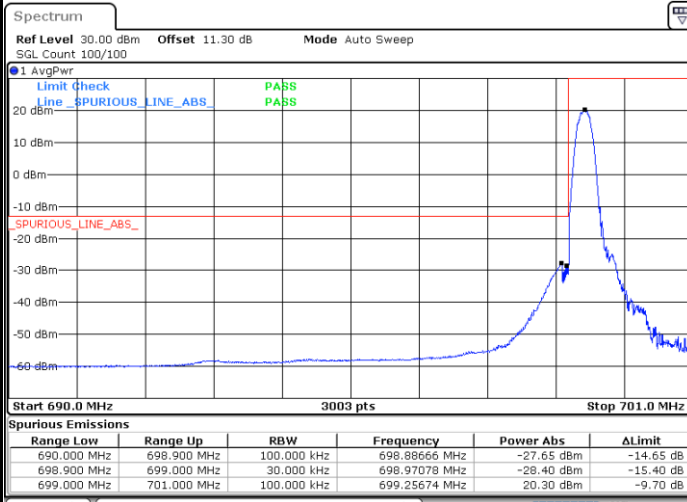


Date: 6.MAY.2021 16:20:37



LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



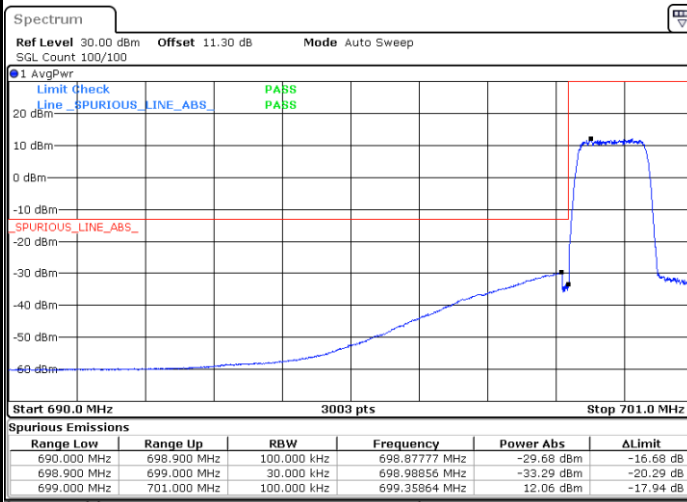
Date: 6.MAY.2021 16:24:26

Highest Band Edge / 1 RB



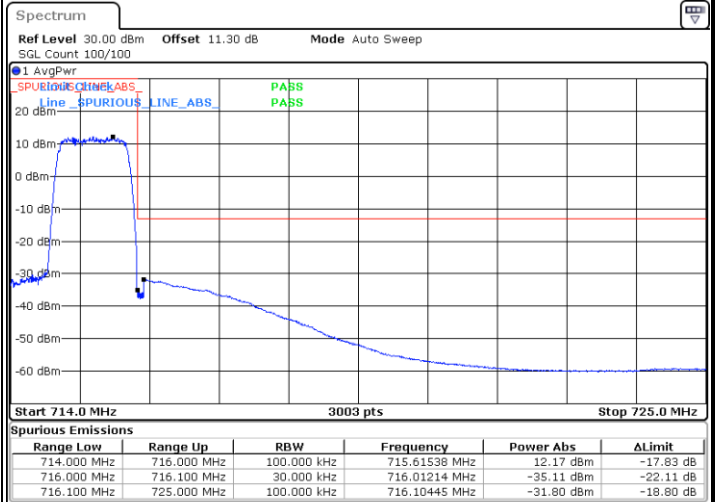
Date: 6.MAY.2021 16:26:38

Lowest Band Edge / Full RB



Date: 6.MAY.2021 16:23:41

Highest Band Edge / Full RB

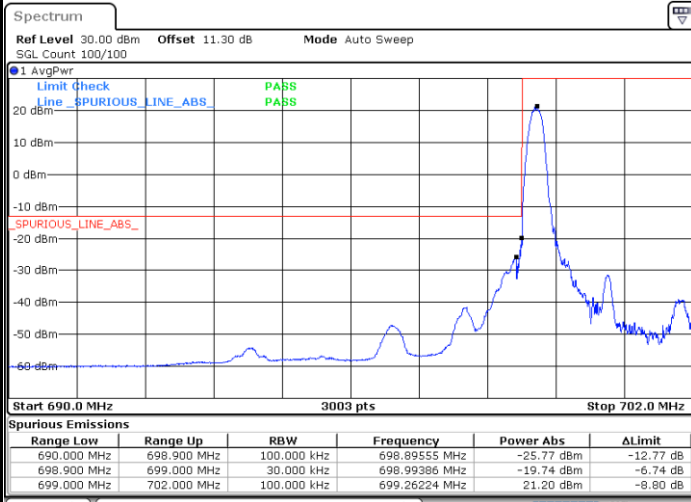


Date: 6.MAY.2021 16:25:53



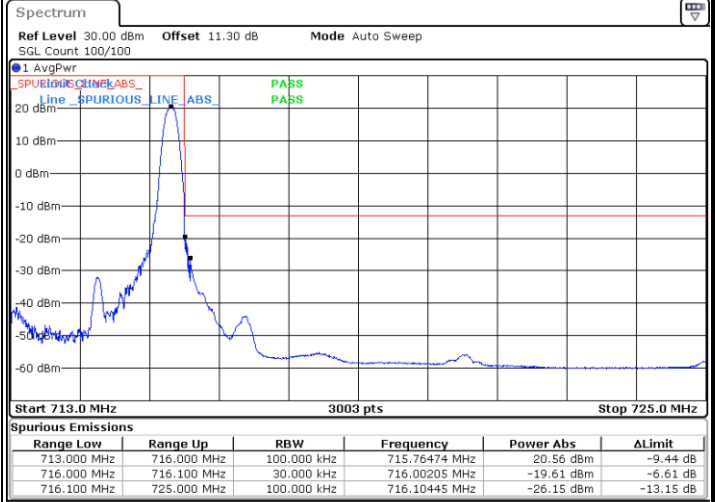
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



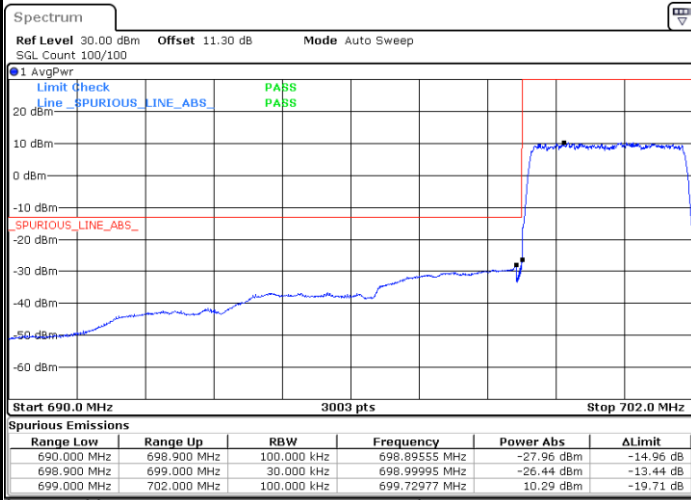
Date: 6.MAY.2021 16:29:35

Highest Band Edge / 1 RB



Date: 6.MAY.2021 16:35:39

Lowest Band Edge / Full RB



Date: 6.MAY.2021 16:27:22

Highest Band Edge / Full RB

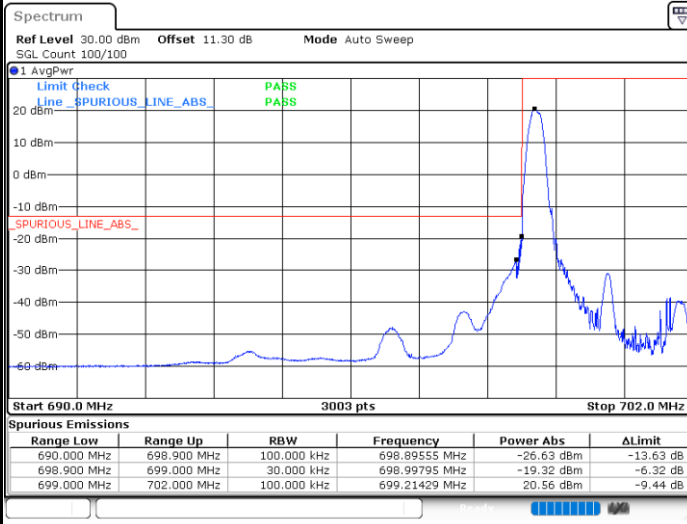


Date: 6.MAY.2021 16:33:27



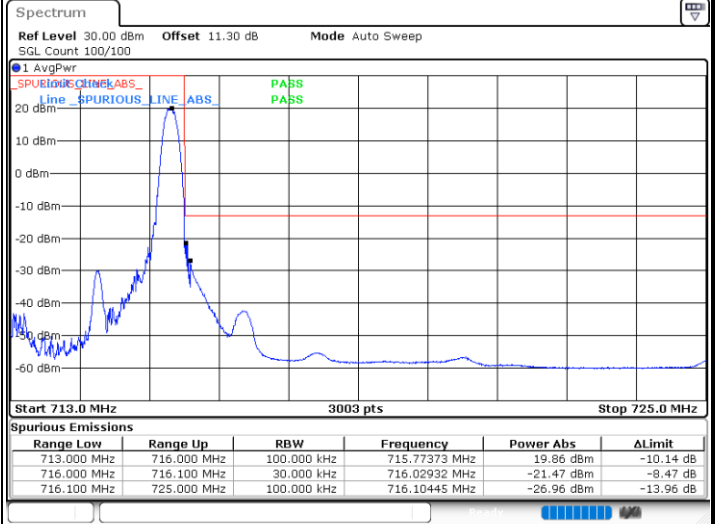
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



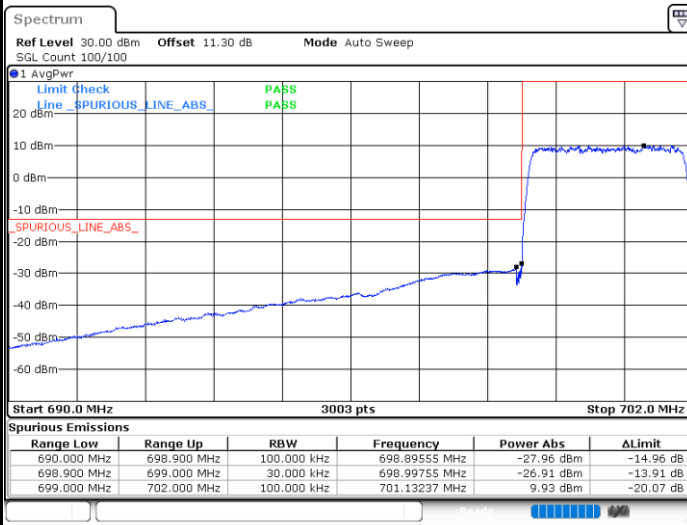
Date: 6.MAY.2021 16:28:50

Highest Band Edge / 1 RB



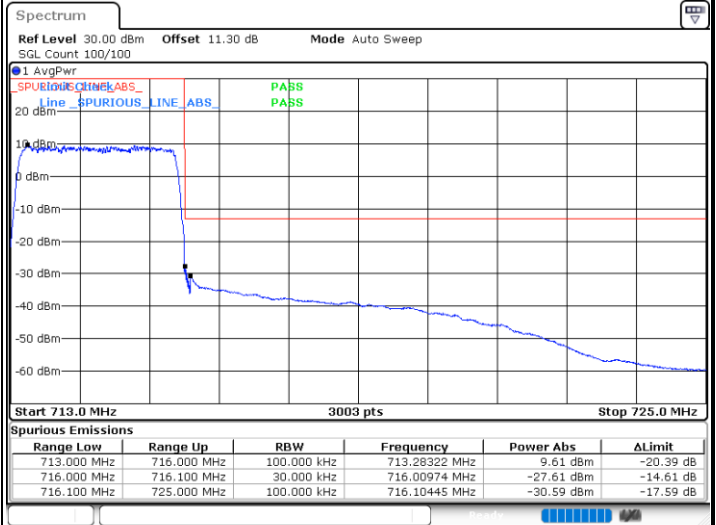
Date: 6.MAY.2021 16:34:55

Lowest Band Edge / Full RB



Date: 6.MAY.2021 16:28:05

Highest Band Edge / Full RB

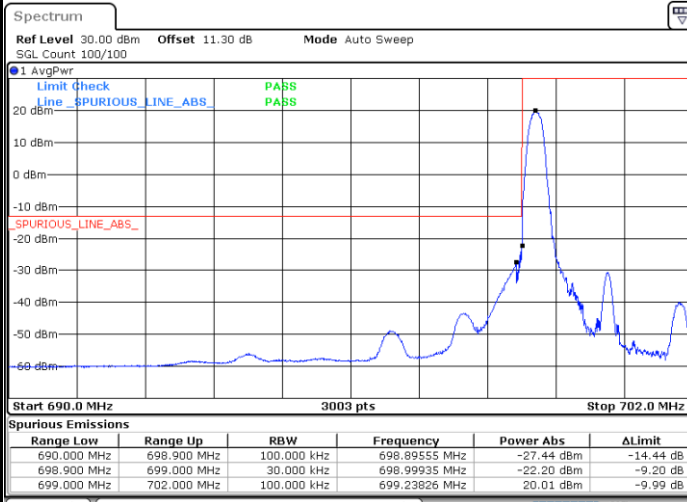


Date: 6.MAY.2021 16:34:12



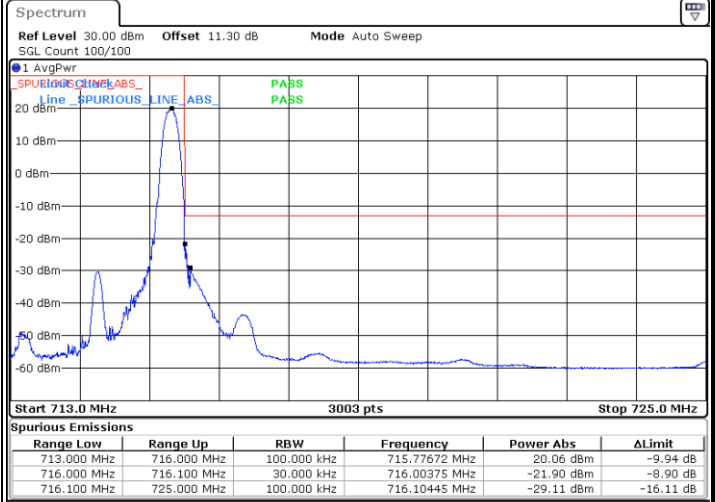
LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



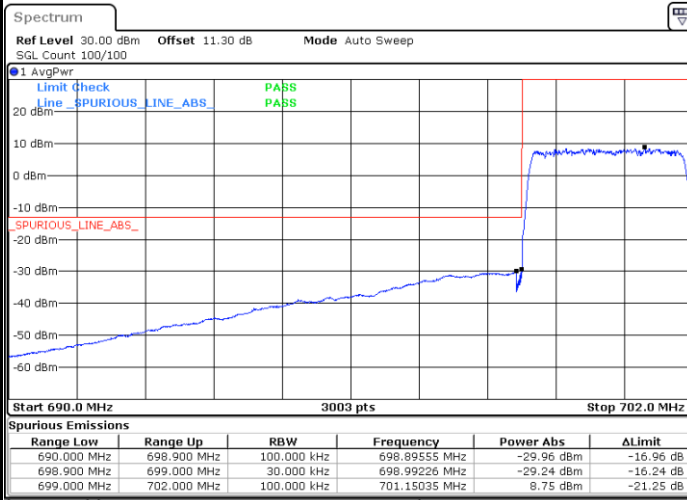
Date: 6.MAY.2021 16:37:58

Highest Band Edge / 1 RB



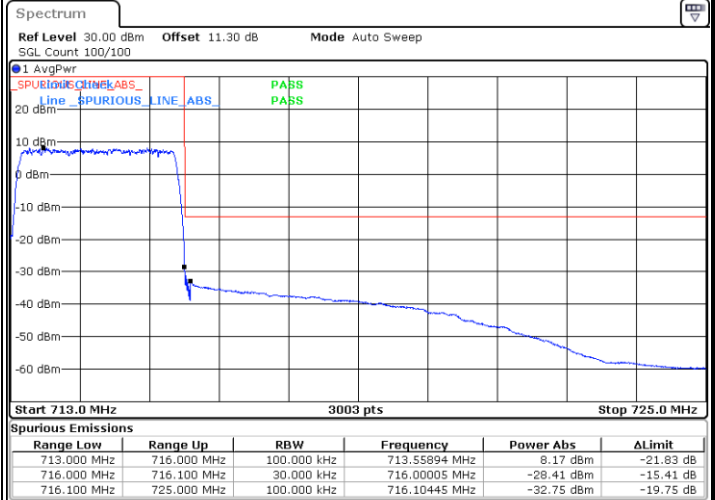
Date: 6.MAY.2021 16:40:09

Lowest Band Edge / Full RB



Date: 6.MAY.2021 16:37:13

Highest Band Edge / Full RB

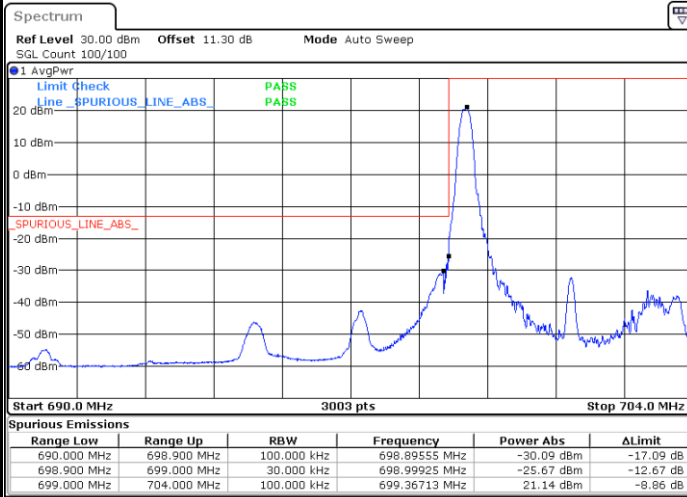


Date: 6.MAY.2021 16:39:25



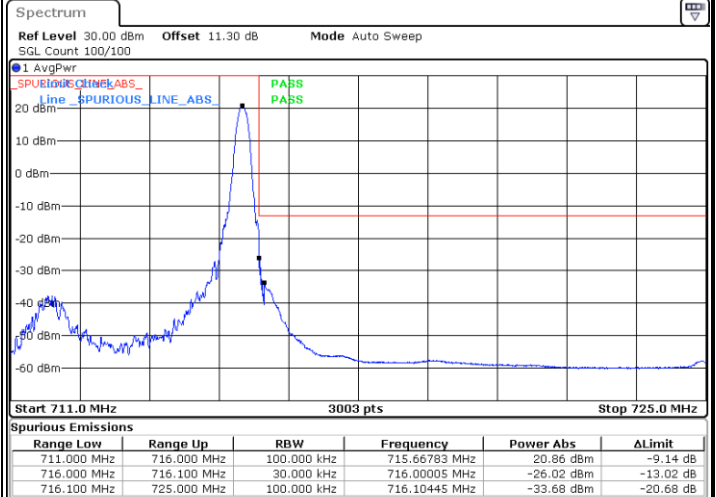
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



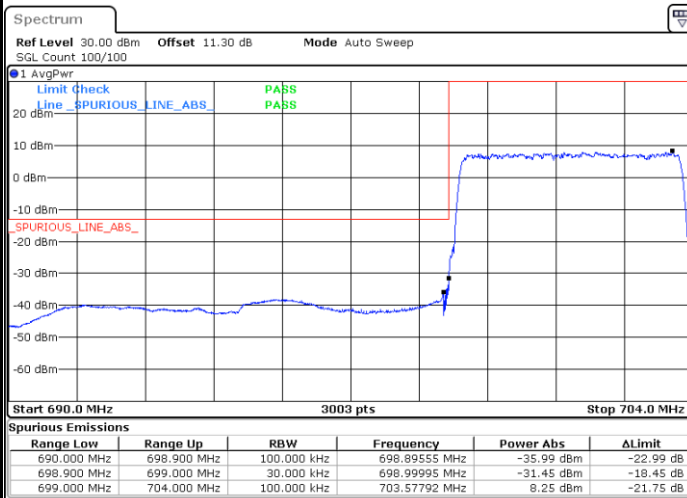
Date: 6.MAY.2021 16:47:50

Highest Band Edge / 1 RB



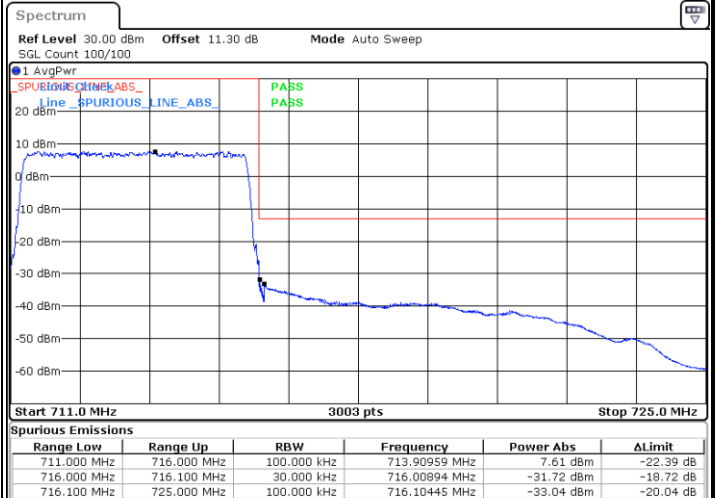
Date: 6.MAY.2021 16:53:10

Lowest Band Edge / Full RB



Date: 6.MAY.2021 16:45:37

Highest Band Edge / Full RB

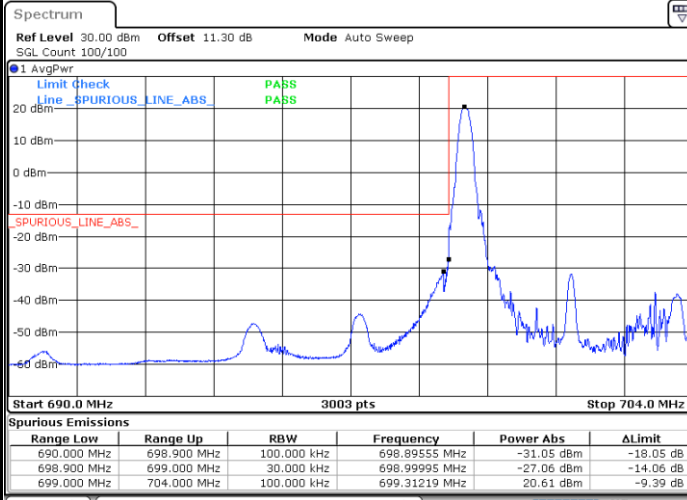


Date: 6.MAY.2021 16:51:42



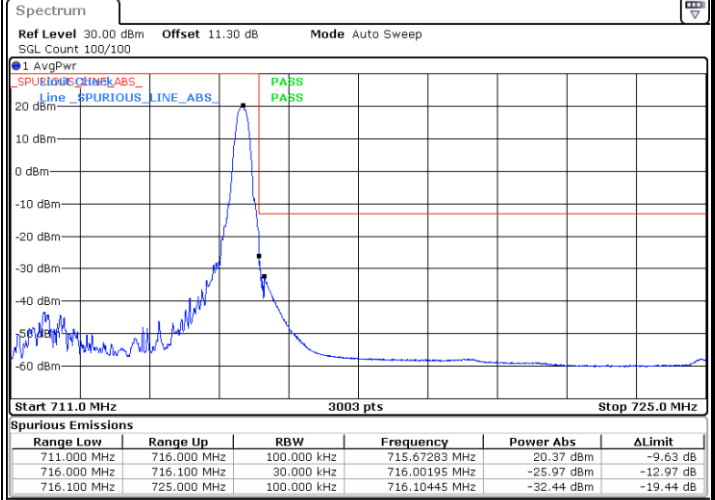
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



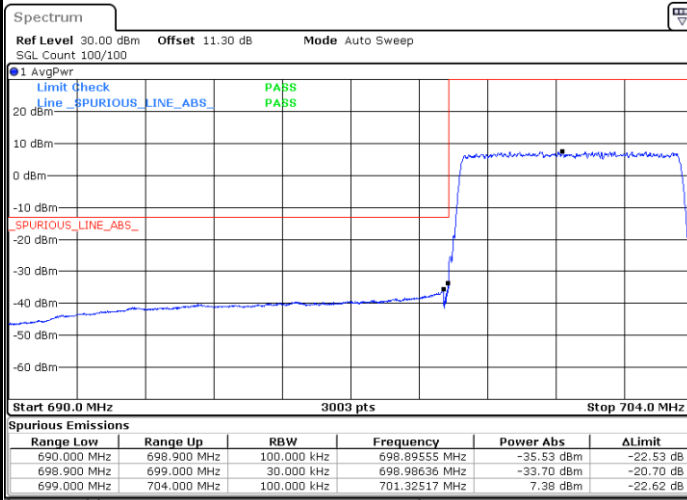
Date: 6.MAY.2021 16:47:07

Highest Band Edge / 1 RB



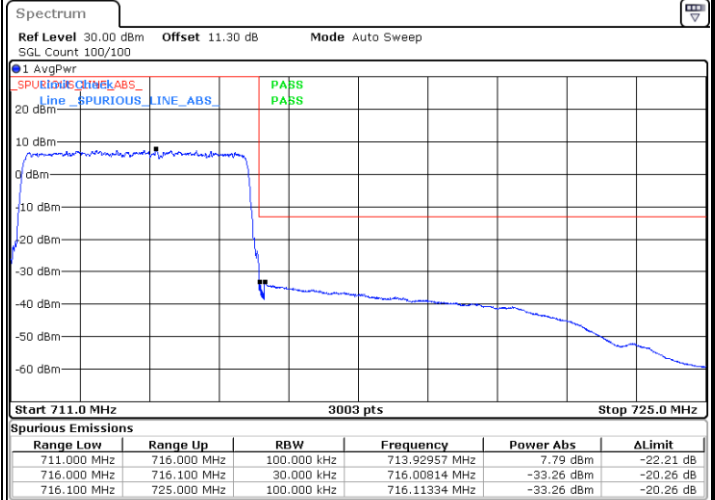
Date: 6.MAY.2021 16:53:55

Lowest Band Edge / Full RB



Date: 6.MAY.2021 16:46:22

Highest Band Edge / Full RB



Date: 6.MAY.2021 16:52:26