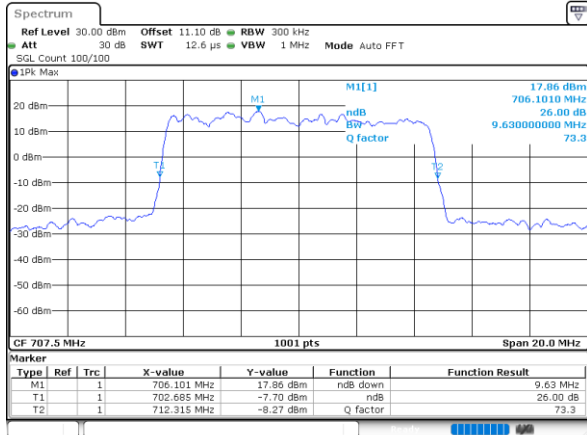




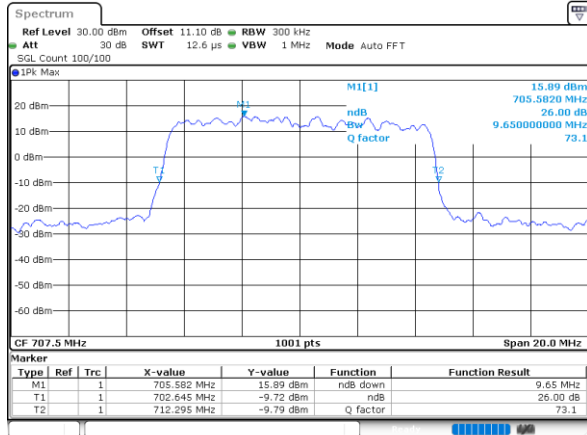
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 27_JAN_2022 11:41:42

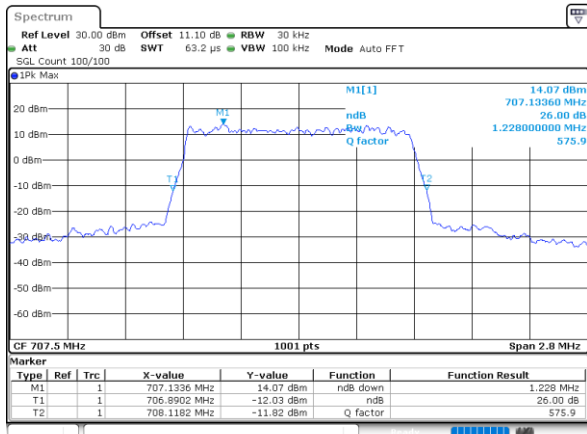
Middle Channel / 10MHz / 16QAM



Date: 27_JAN_2022 11:42:02

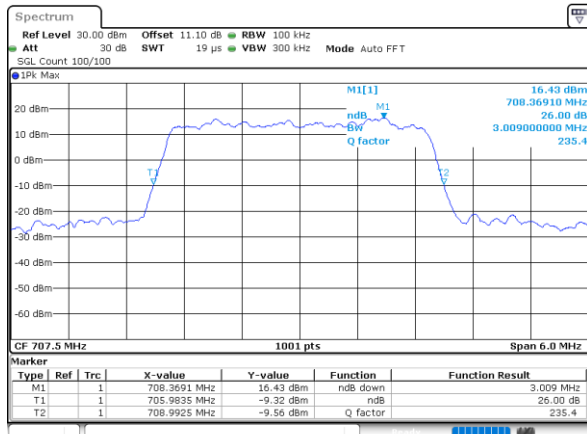
LTE Band 12

Middle Channel / 1.4MHz / 64QAM



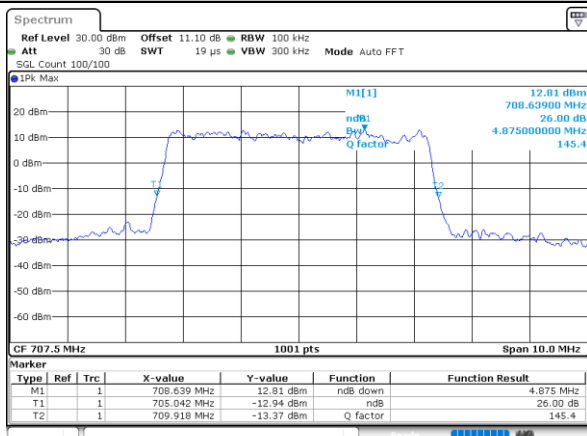
Date: 27_JAN_2022 11:08:02

Middle Channel / 3MHz / 64QAM



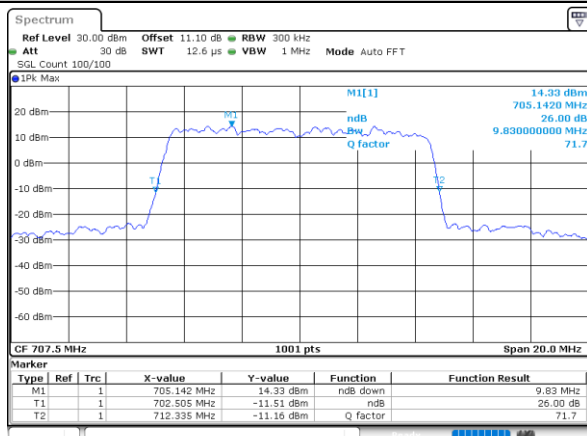
Date: 27_JAN_2022 13:50:43

Middle Channel / 5MHz / 64QAM



Date: 27_JAN_2022 11:25:07

Middle Channel / 10MHz / 64QAM



Date: 27_JAN_2022 11:49:09



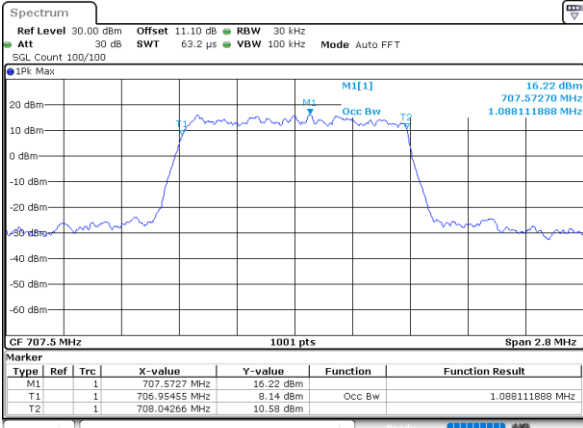
Occupied Bandwidth

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	2.71	2.73	4.48	4.49	8.99	9.01	-	-	-	-
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	1.10	-	2.73	-	4.51	-	8.97	-	-	-	-	-

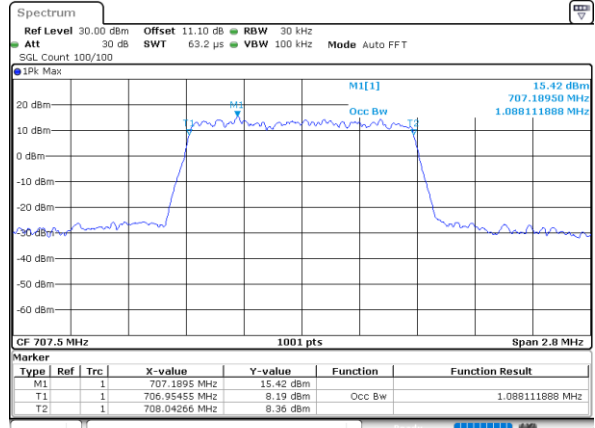


LTE Band 12

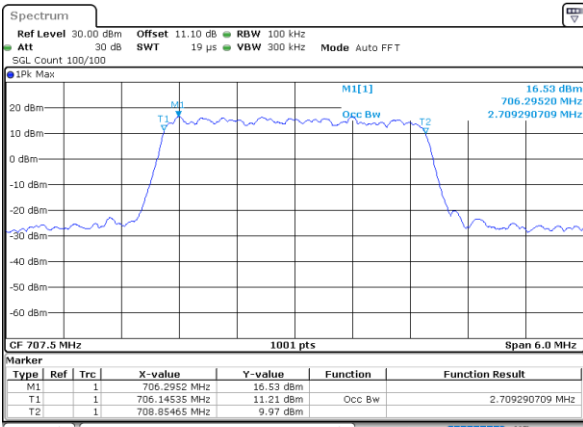
Middle Channel / 1.4MHz / QPSK



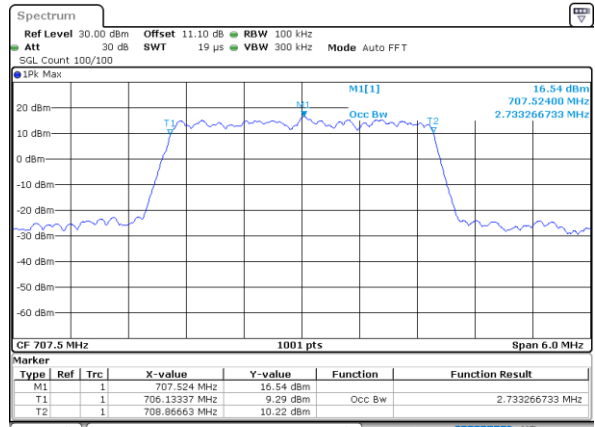
Middle Channel / 1.4MHz / 16QAM



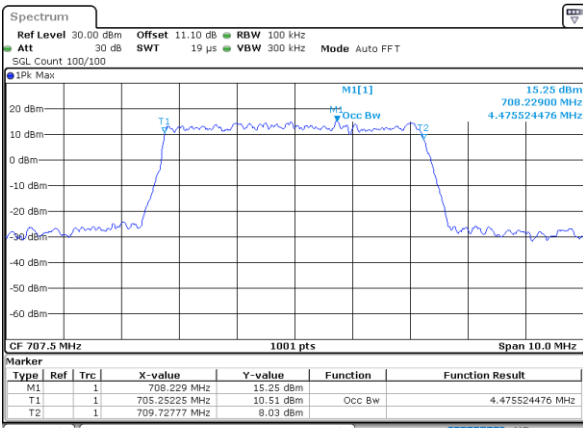
Middle Channel / 3MHz / QPSK



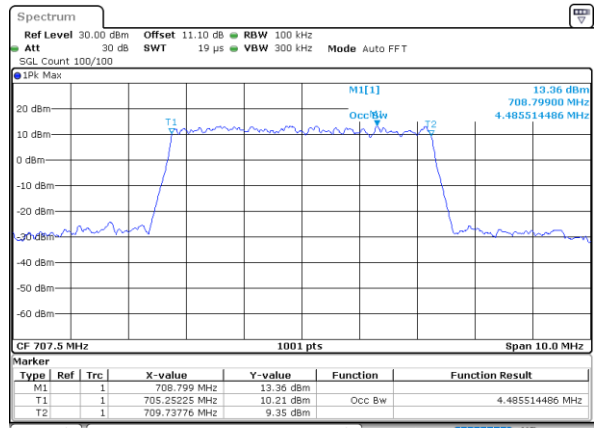
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



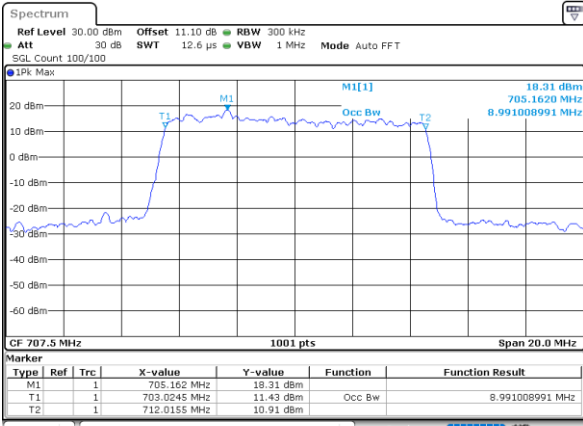
Middle Channel / 5MHz / 16QAM





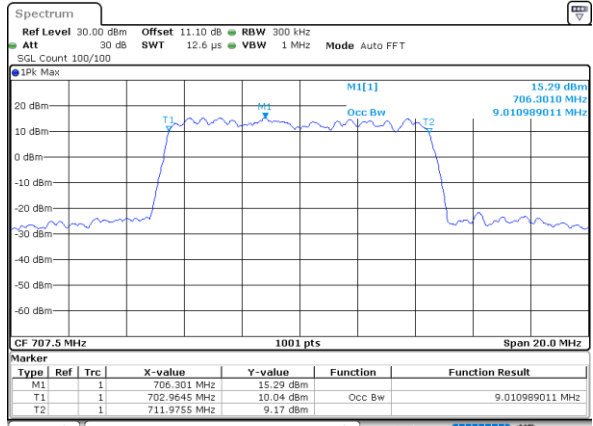
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 27_JAN,2022 11:41:22

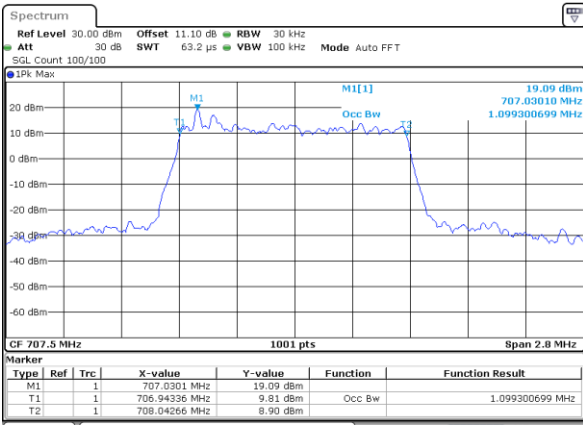
Middle Channel / 10MHz / 16QAM



Date: 27_JAN,2022 11:41:01

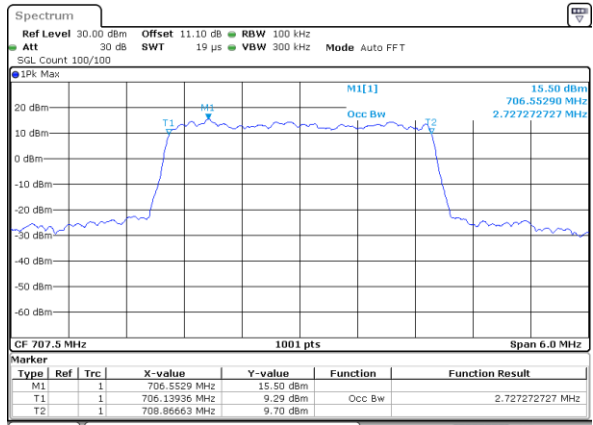
LTE Band 12

Middle Channel / 1.4MHz / 64QAM



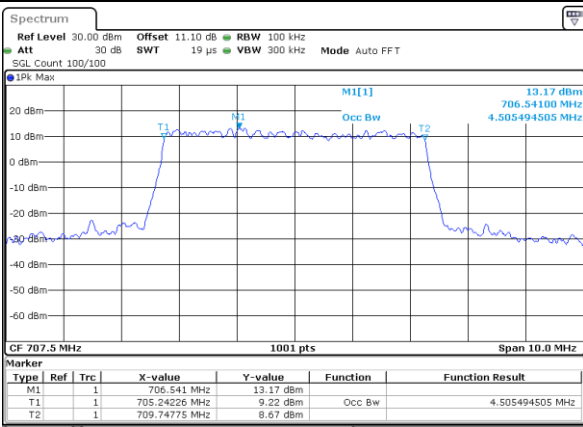
Date: 27_JAN,2022 11:07:42

Middle Channel / 3MHz / 64QAM



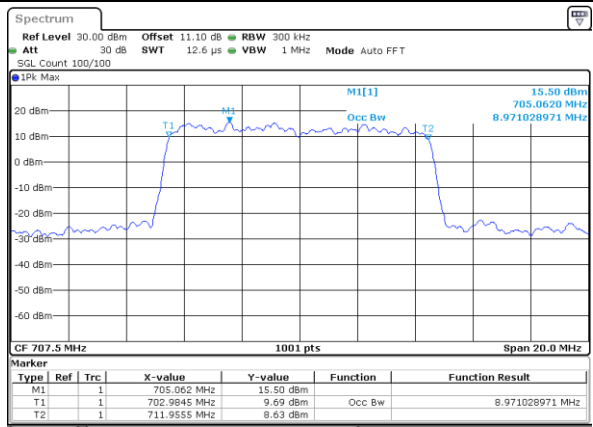
Date: 27_JAN,2022 11:21:22

Middle Channel / 5MHz / 64QAM



Date: 27_JAN,2022 11:24:47

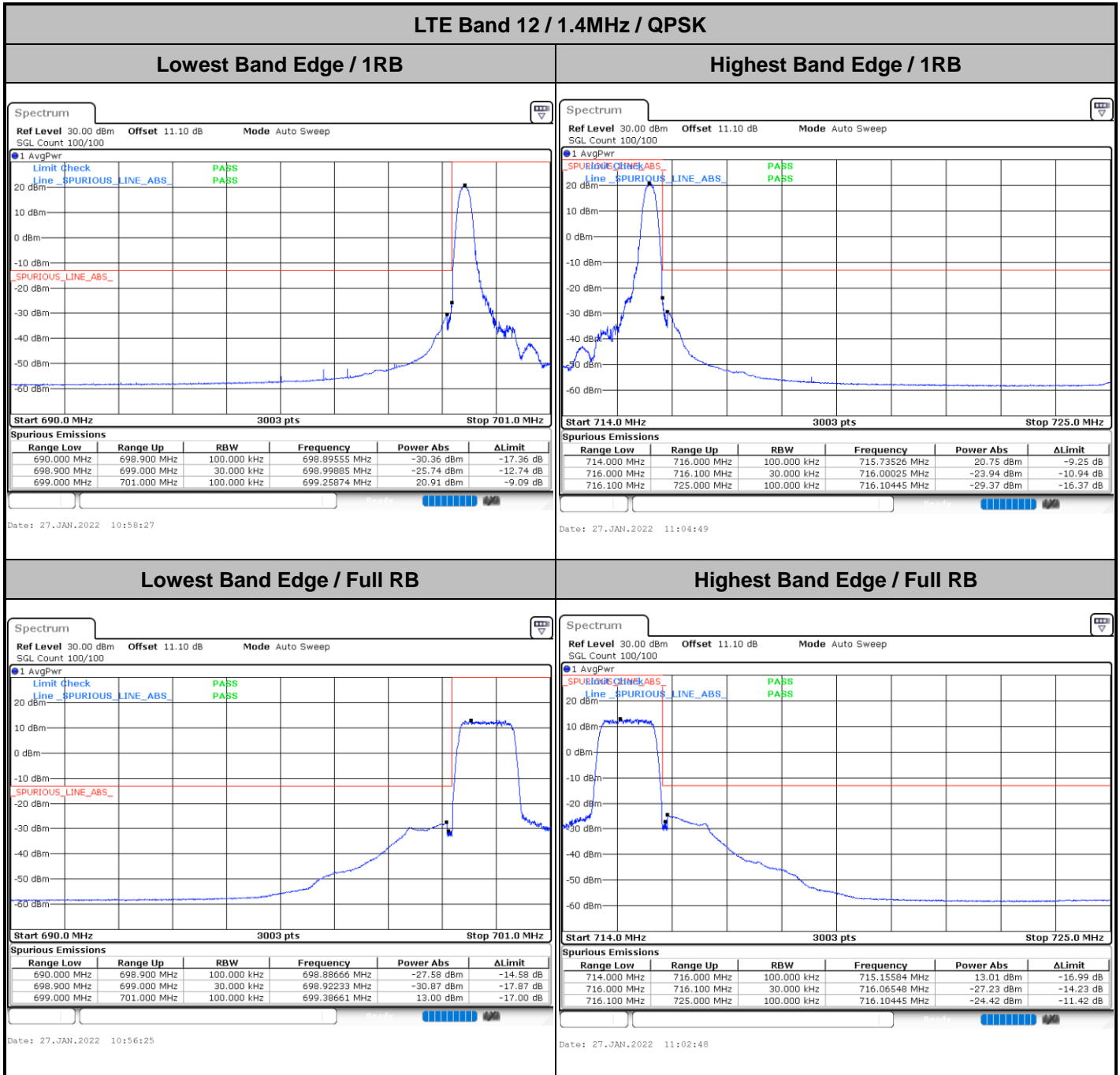
Middle Channel / 10MHz / 64QAM



Date: 27_JAN,2022 11:48:18



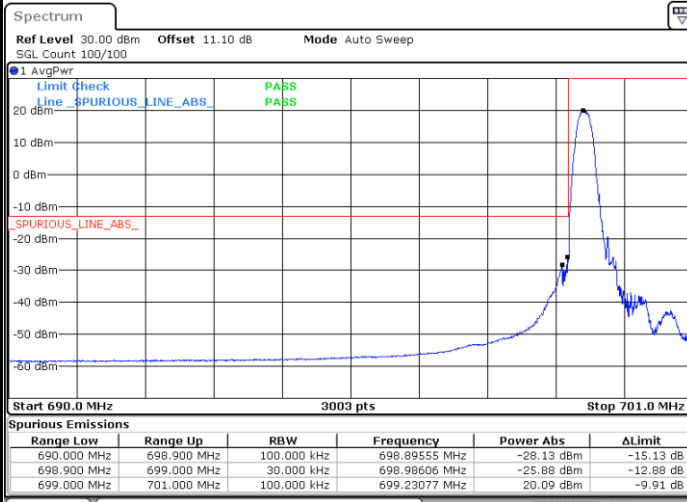
Conducted Band Edge





LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



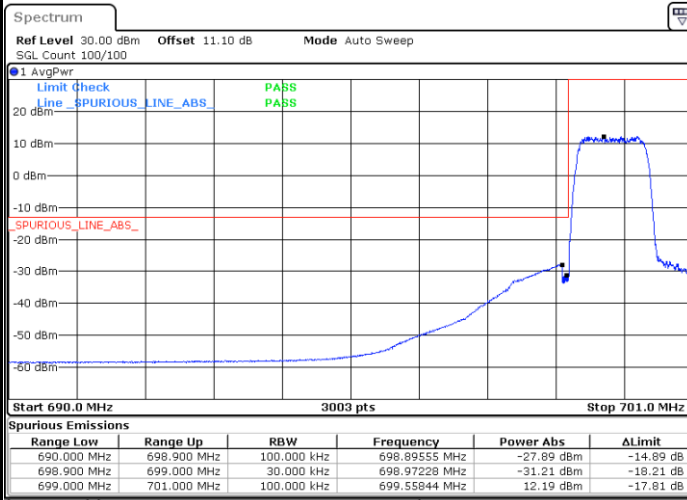
Date: 27.JAN.2022 10:57:46

Highest Band Edge / 1 RB



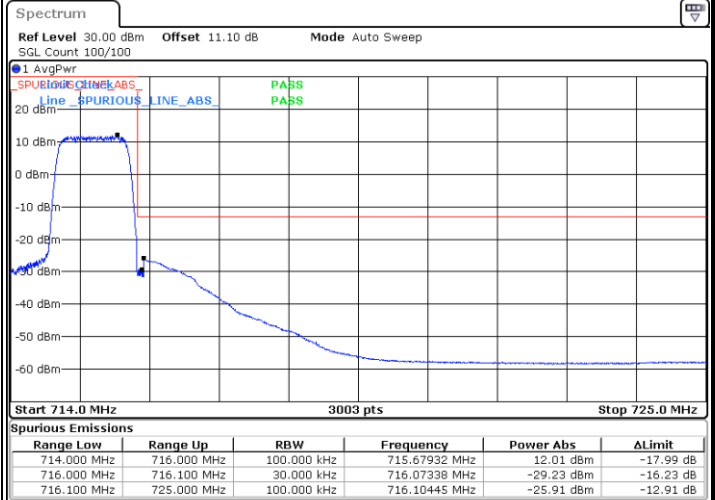
Date: 27.JAN.2022 11:04:09

Lowest Band Edge / Full RB



Date: 27.JAN.2022 10:57:05

Highest Band Edge / Full RB

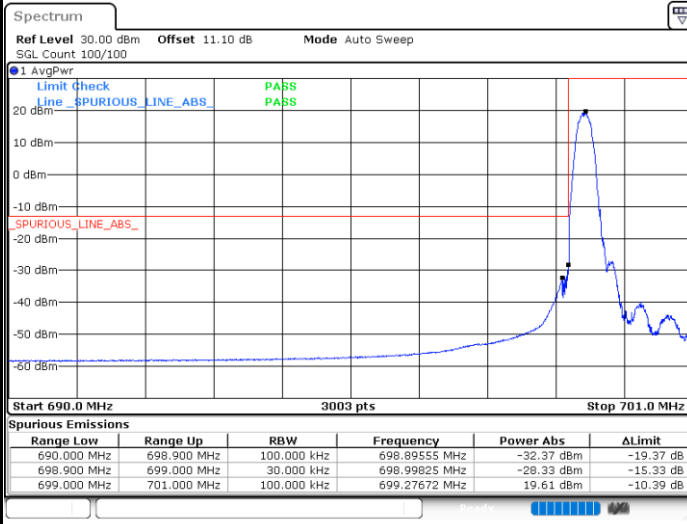


Date: 27.JAN.2022 11:03:29

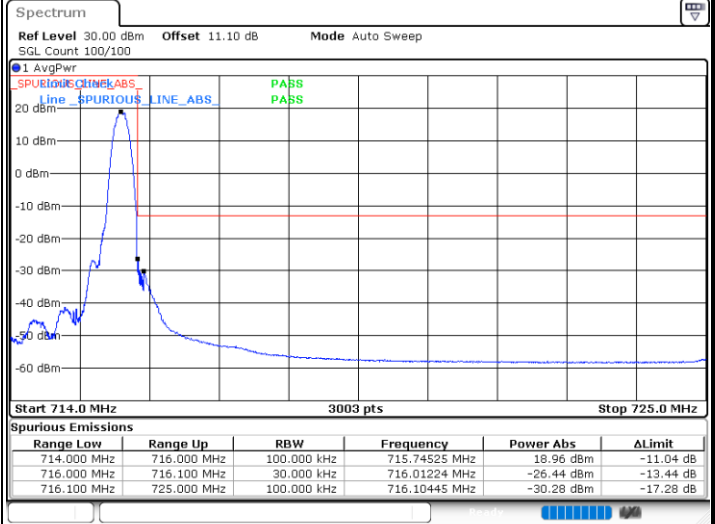


LTE Band 12 / 1.4MHz / 64QAM

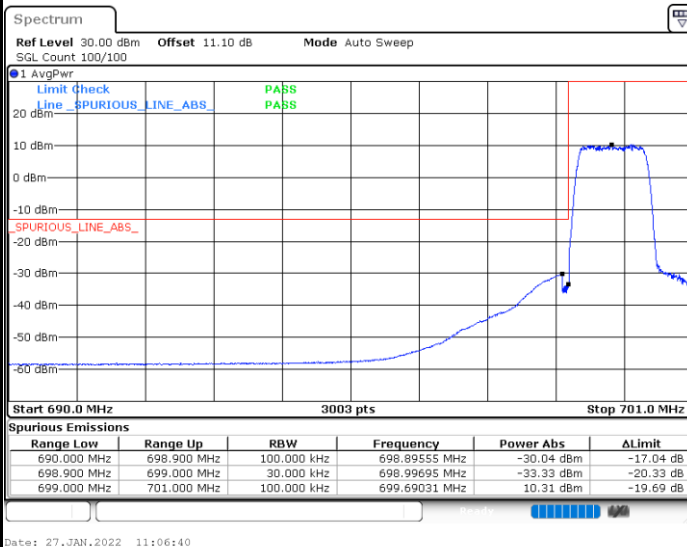
Lowest Band Edge / 1 RB



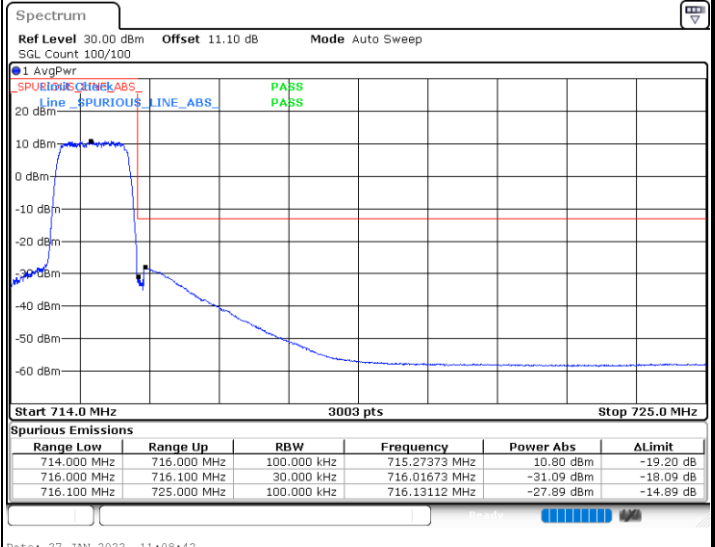
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



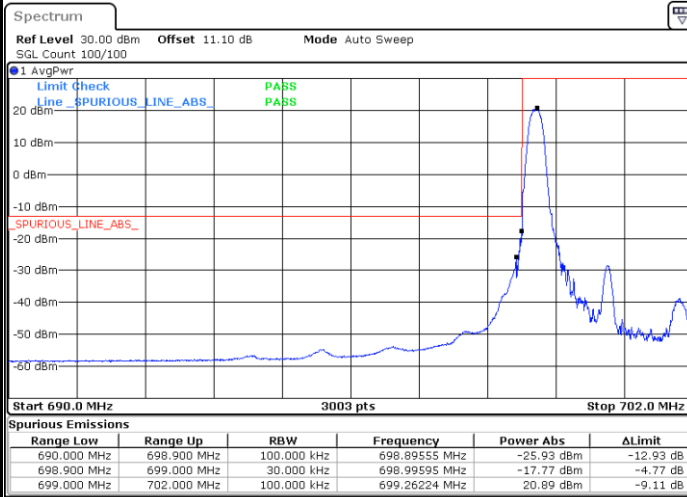
Highest Band Edge / Full RB





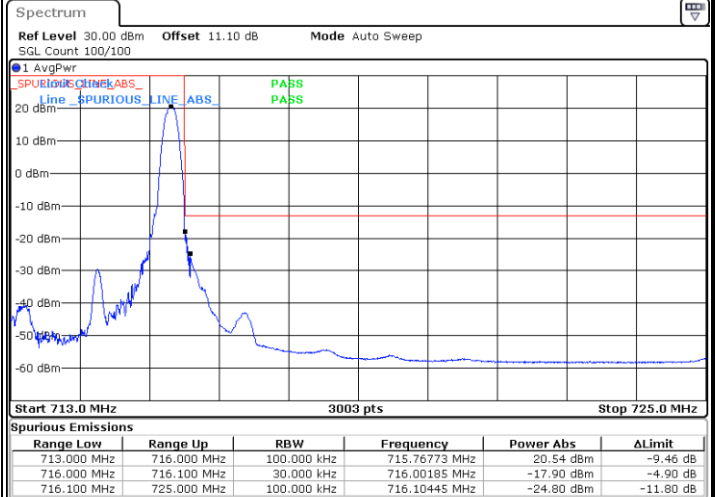
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



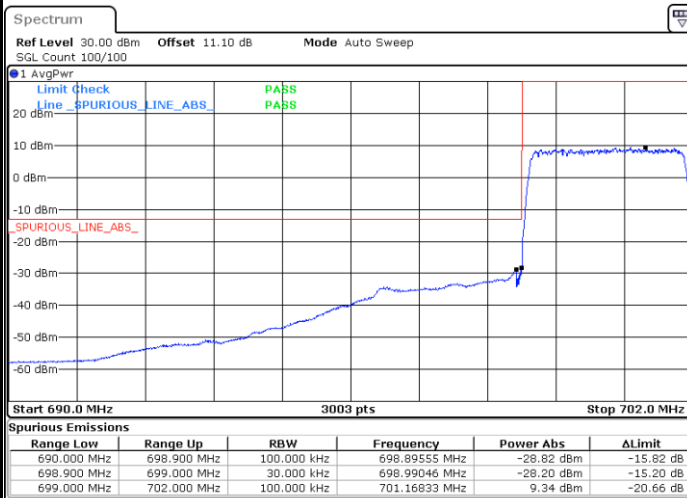
Date: 27.JAN.2022 11:12:06

Highest Band Edge / 1 RB



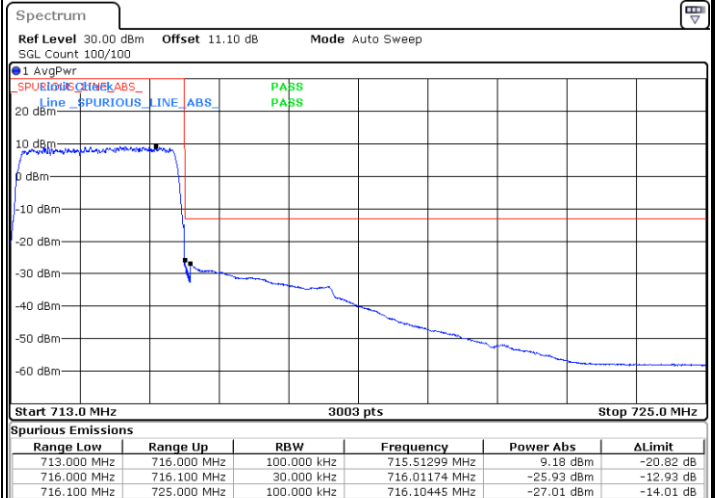
Date: 27.JAN.2022 11:18:30

Lowest Band Edge / Full RB



Date: 27.JAN.2022 11:10:04

Highest Band Edge / Full RB

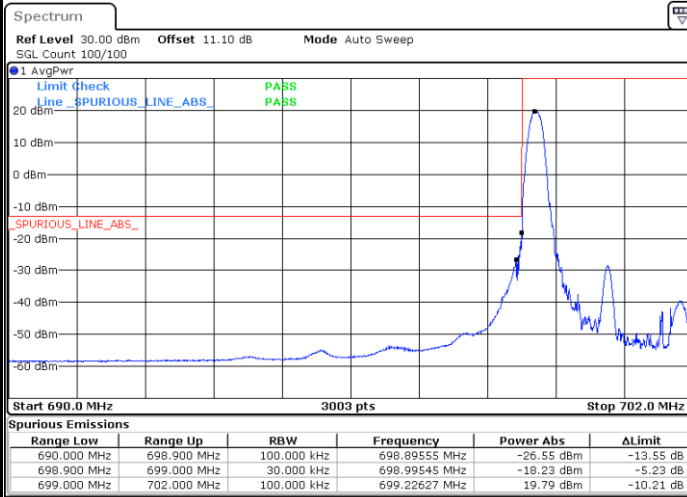


Date: 27.JAN.2022 11:16:28



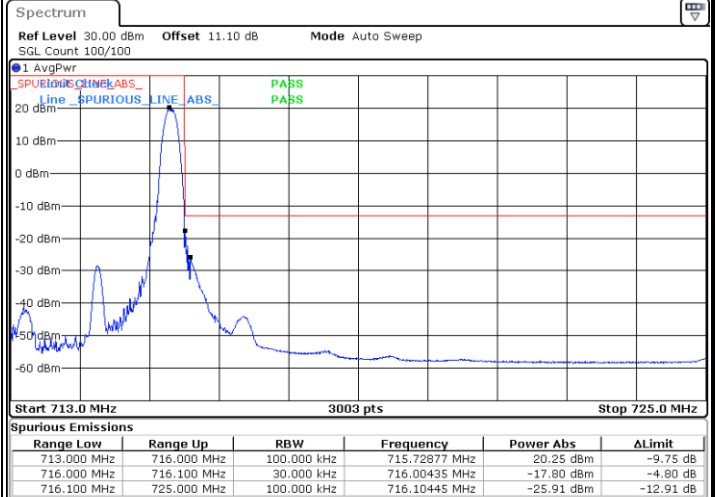
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



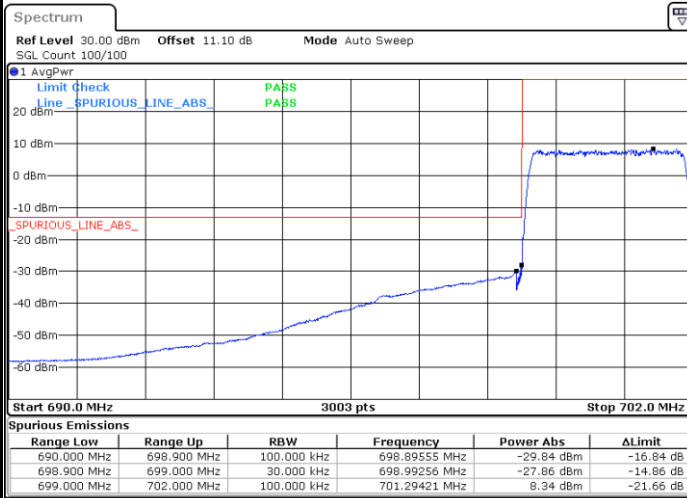
Date: 27.JAN.2022 11:11:25

Highest Band Edge / 1 RB



Date: 27.JAN.2022 11:17:49

Lowest Band Edge / Full RB



Date: 27.JAN.2022 11:10:44

Highest Band Edge / Full RB

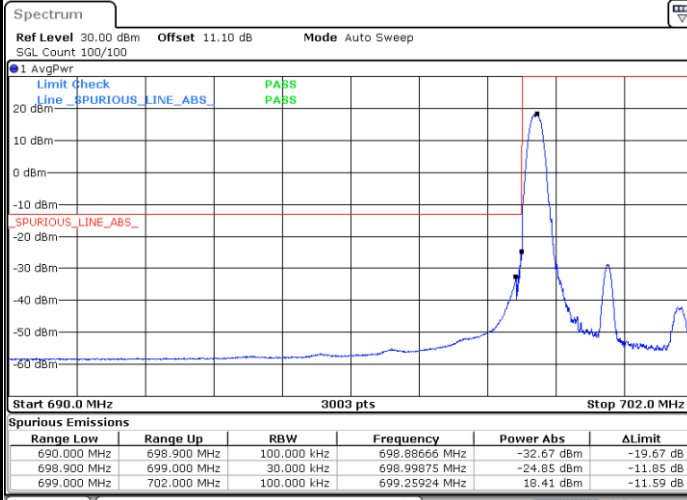


Date: 27.JAN.2022 11:17:09



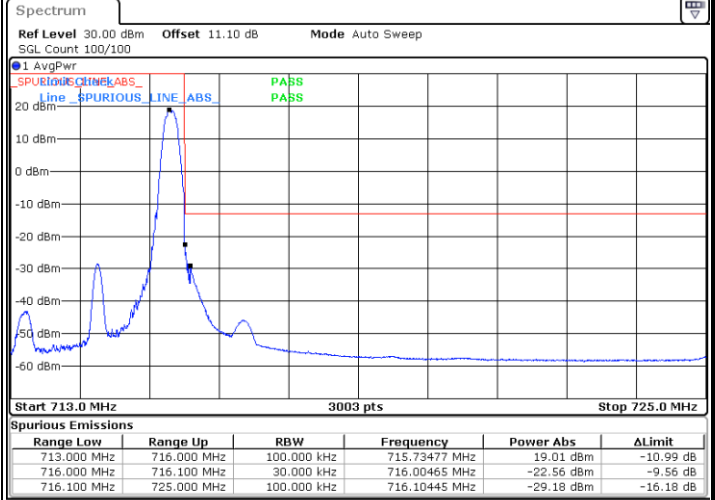
LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



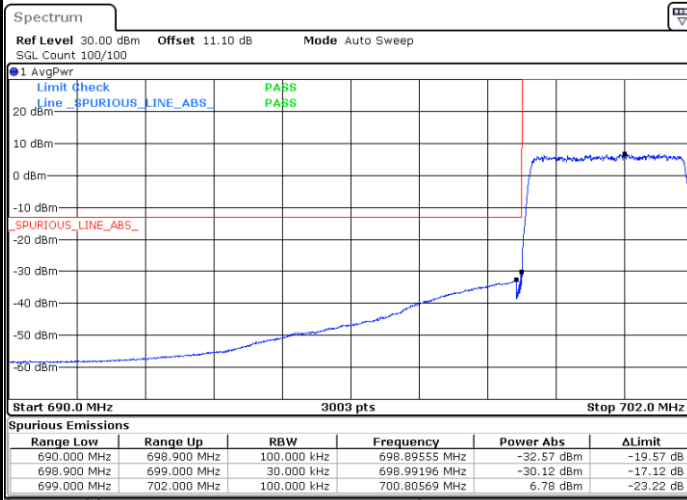
Date: 27.JAN.2022 11:21:01

Highest Band Edge / 1 RB



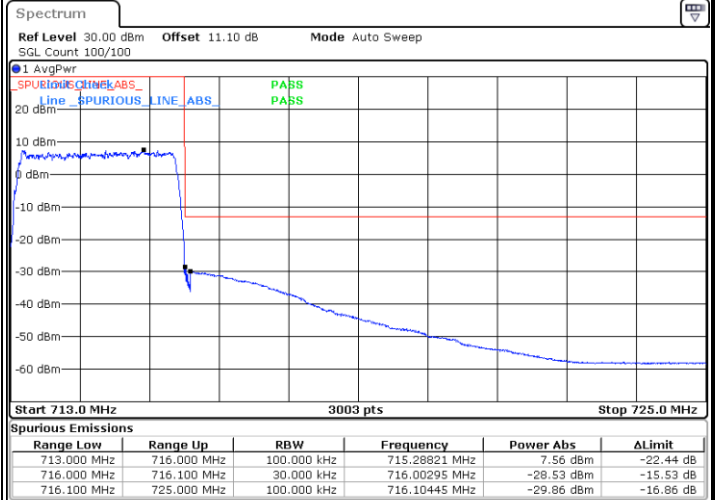
Date: 27.JAN.2022 11:23:03

Lowest Band Edge / Full RB



Date: 27.JAN.2022 11:20:21

Highest Band Edge / Full RB

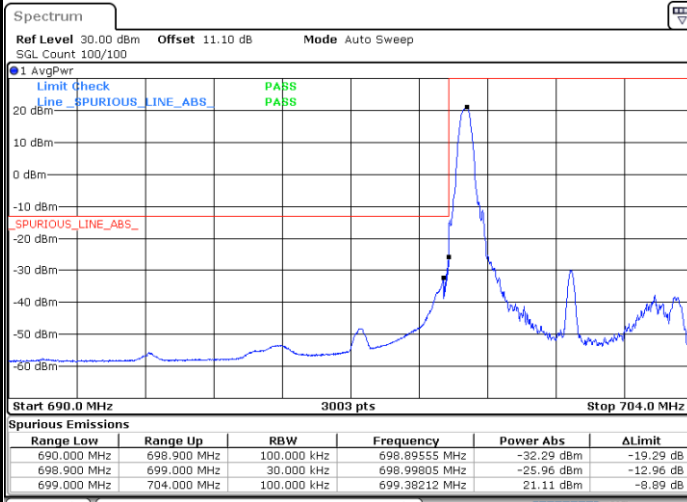


Date: 27.JAN.2022 11:22:23



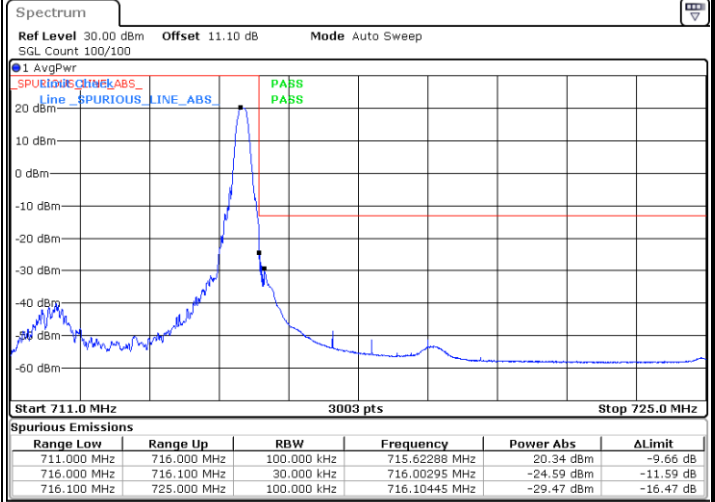
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



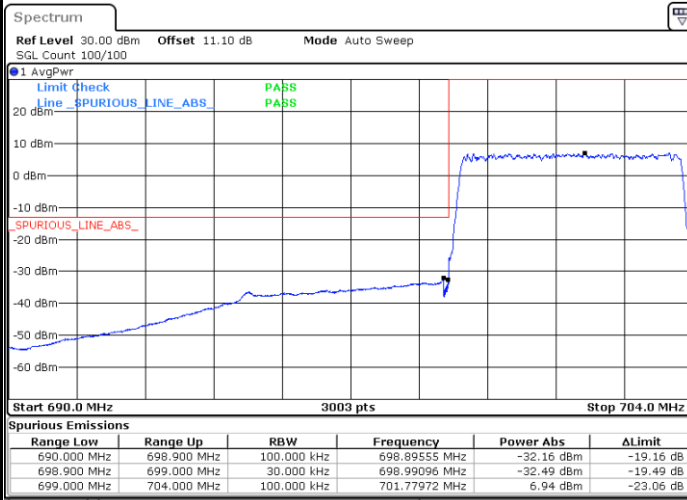
Date: 27.JAN.2022 11:29:11

Highest Band Edge / 1 RB



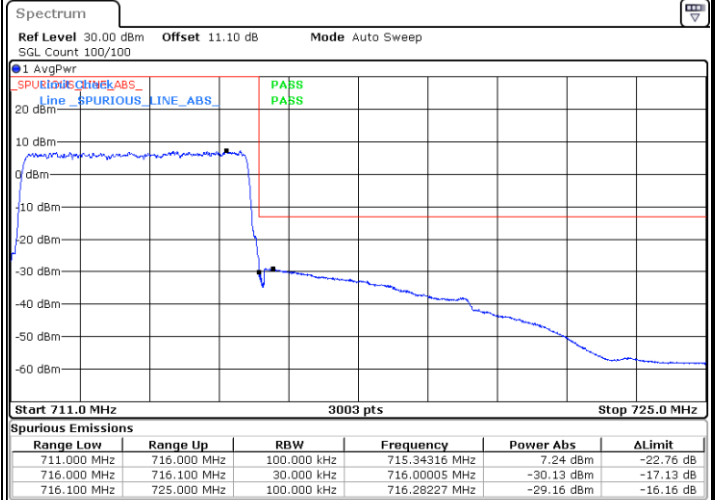
Date: 27.JAN.2022 11:34:55

Lowest Band Edge / Full RB



Date: 27.JAN.2022 11:27:08

Highest Band Edge / Full RB

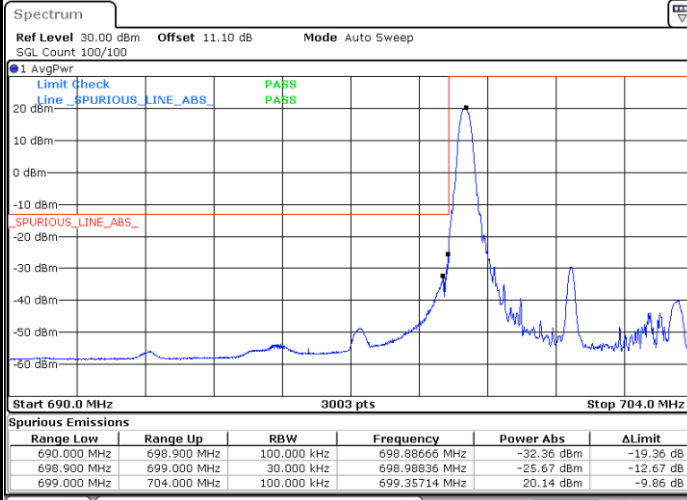


Date: 27.JAN.2022 11:33:33



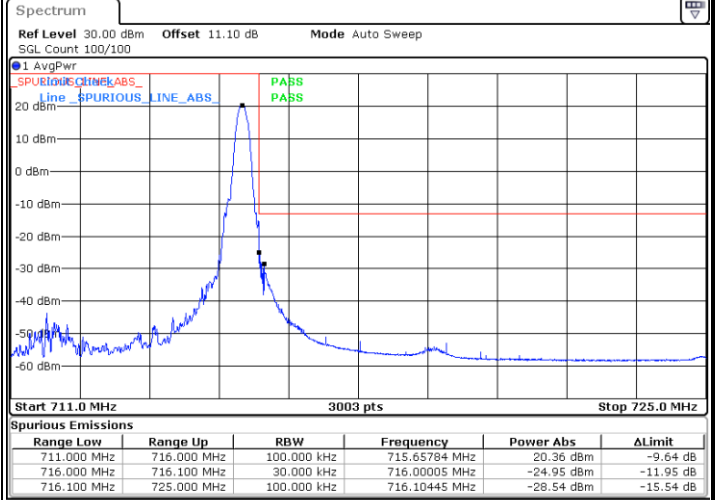
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



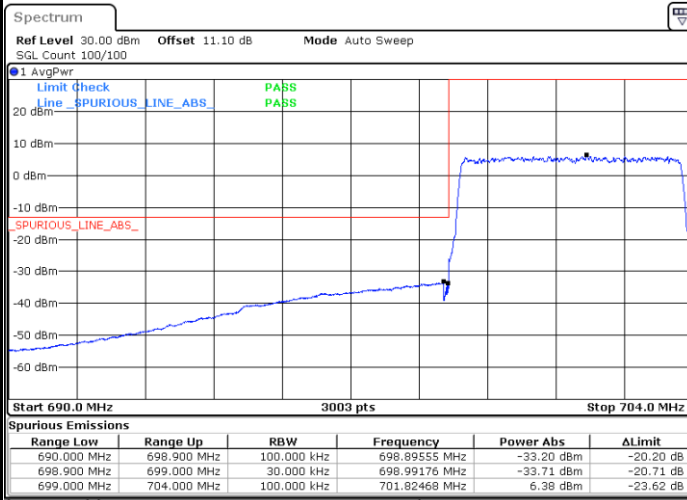
Date: 27.JAN.2022 11:28:30

Highest Band Edge / 1 RB



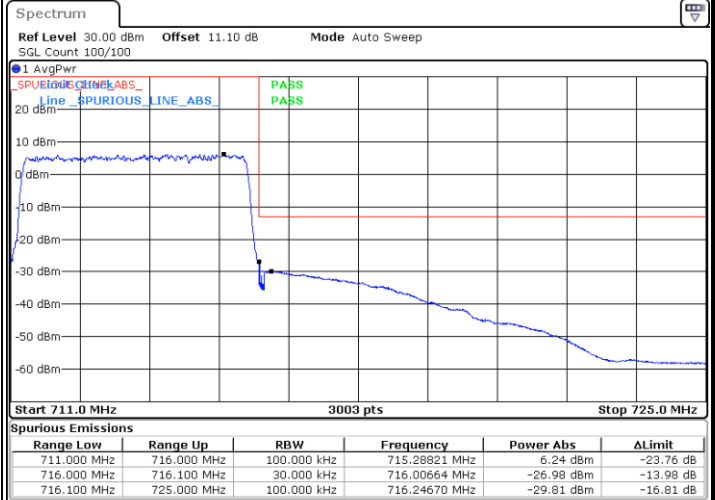
Date: 27.JAN.2022 11:35:35

Lowest Band Edge / Full RB



Date: 27.JAN.2022 11:27:49

Highest Band Edge / Full RB

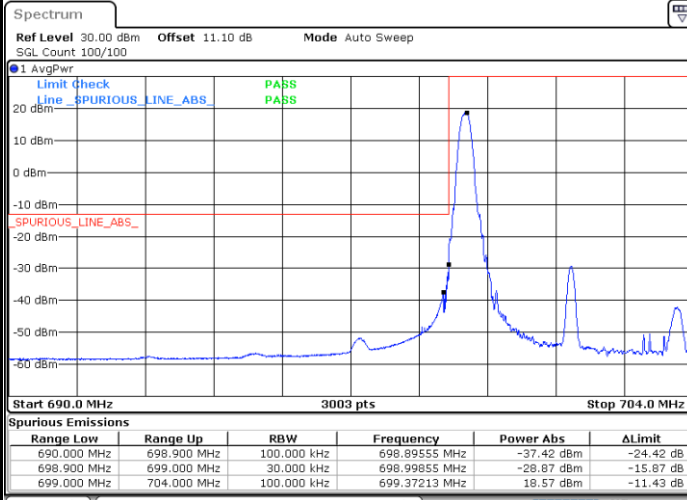


Date: 27.JAN.2022 11:34:14



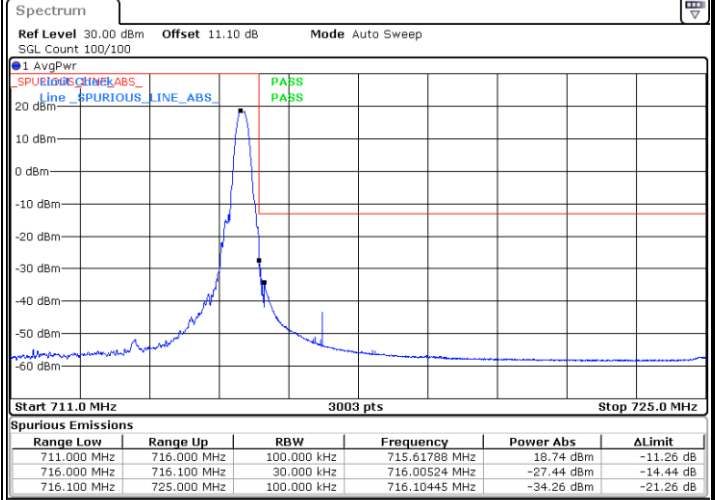
LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1RB



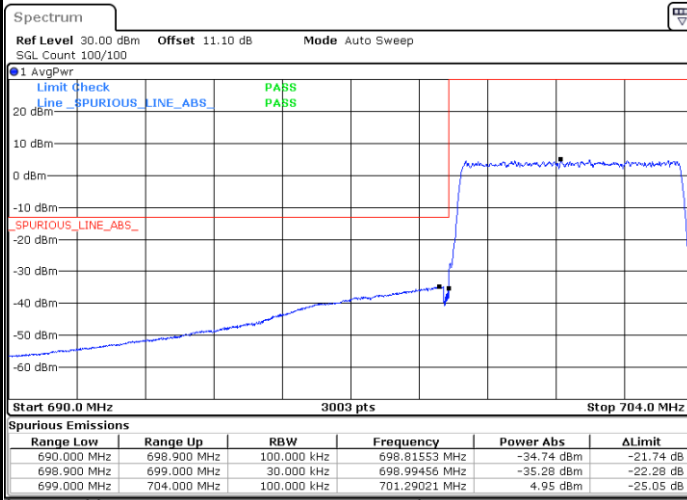
Date: 27.JAN.2022 11:24:25

Highest Band Edge / 1 RB



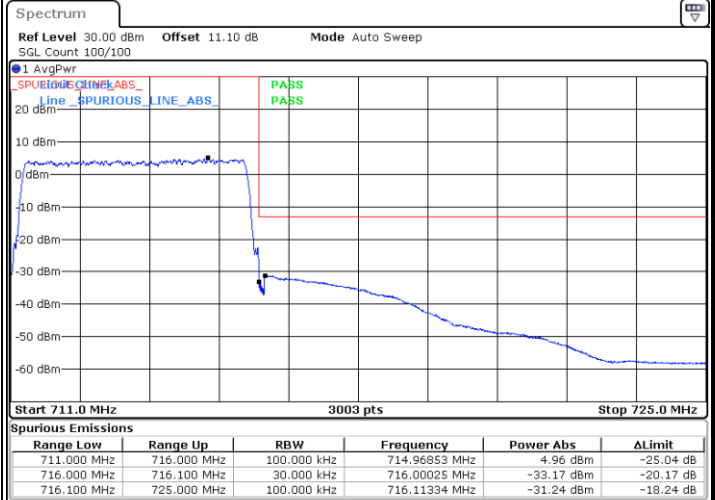
Date: 27.JAN.2022 11:26:27

Lowest Band Edge / Full RB



Date: 27.JAN.2022 11:23:45

Highest Band Edge / Full RB

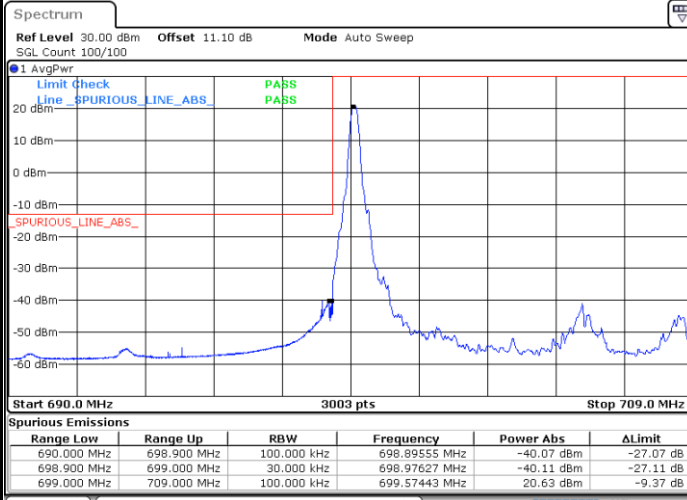


Date: 27.JAN.2022 11:25:47



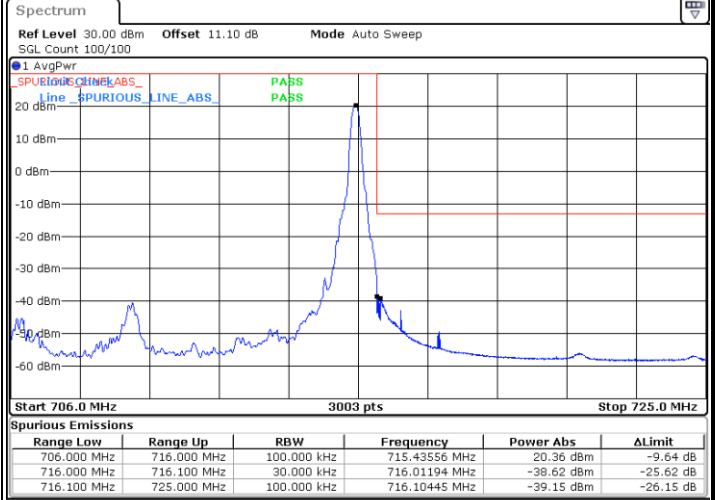
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



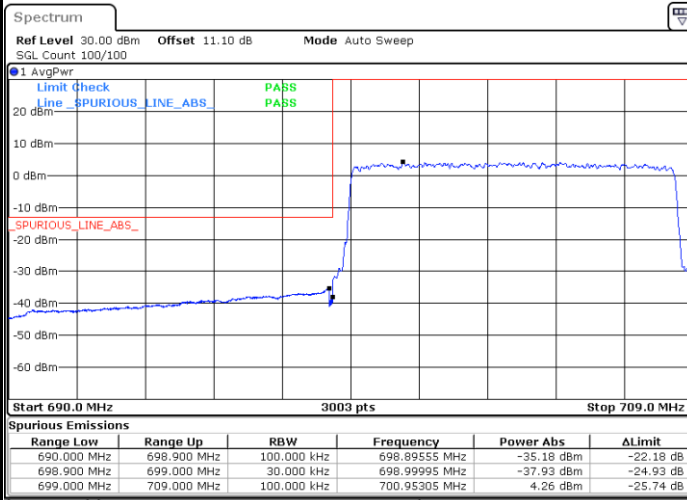
Date: 27.JAN.2022 11:39:30

Highest Band Edge / 1 RB



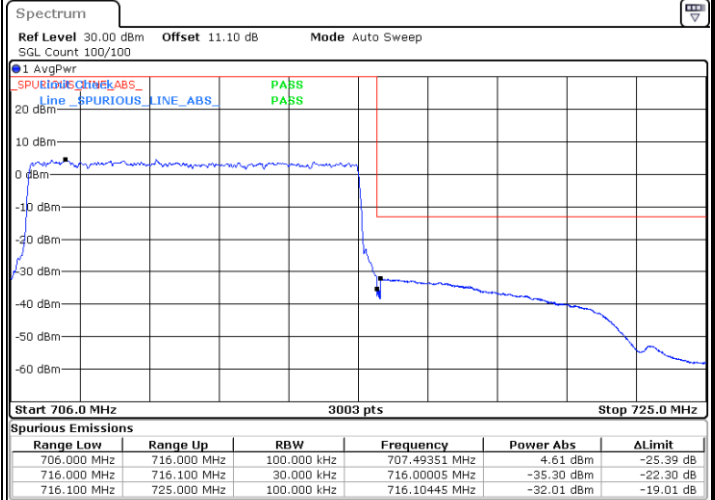
Date: 27.JAN.2022 11:45:55

Lowest Band Edge / Full RB



Date: 27.JAN.2022 11:37:27

Highest Band Edge / Full RB

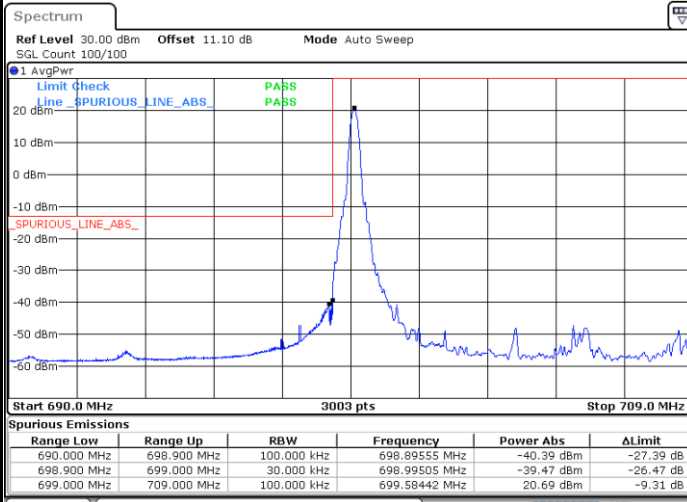


Date: 27.JAN.2022 11:43:52



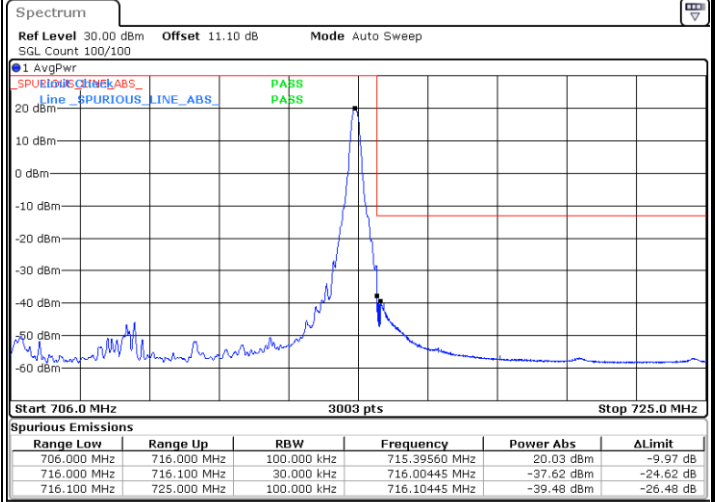
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



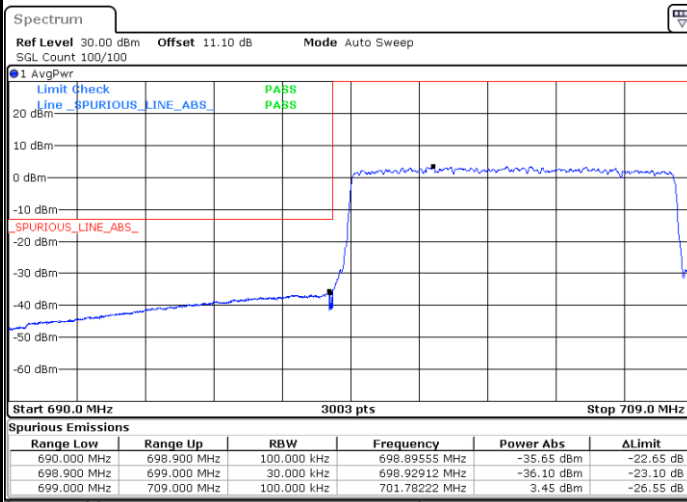
Date: 27.JAN.2022 11:38:49

Highest Band Edge / 1 RB



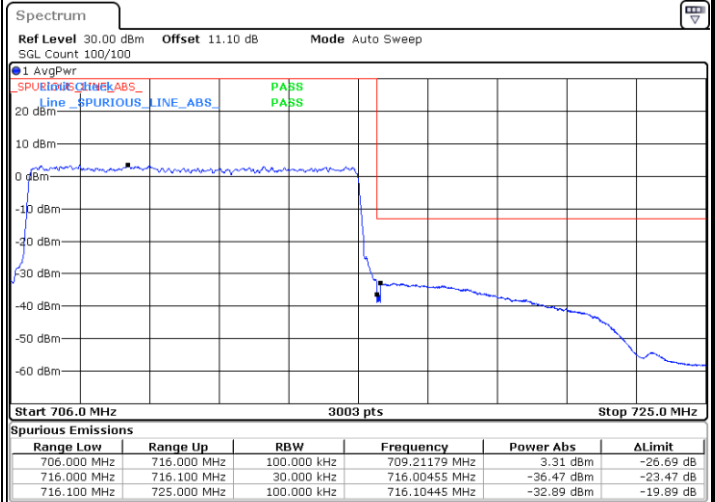
Date: 27.JAN.2022 11:45:14

Lowest Band Edge / Full RB



Date: 27.JAN.2022 11:38:08

Highest Band Edge / Full RB

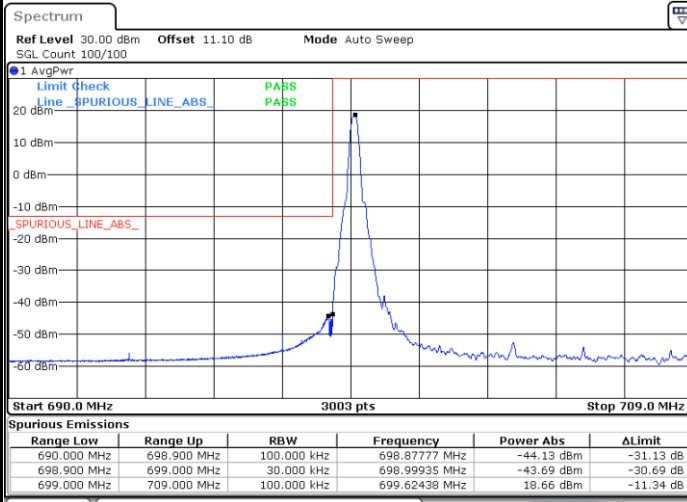


Date: 27.JAN.2022 11:44:33



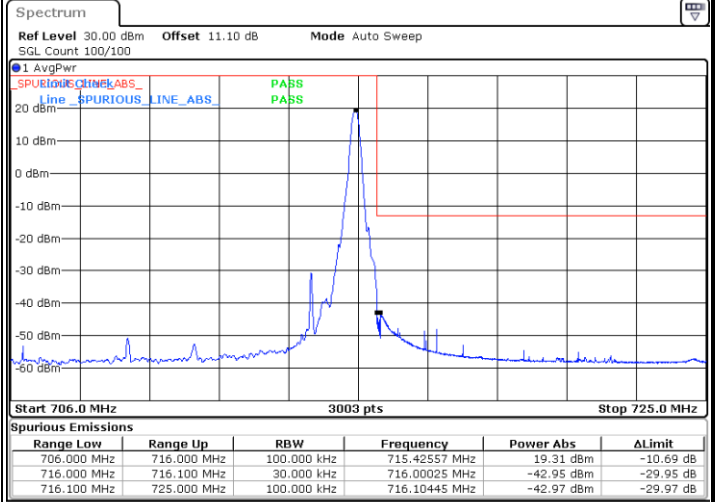
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



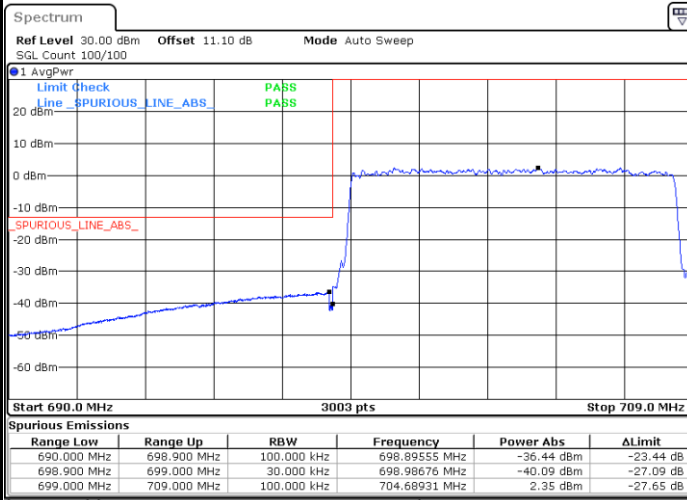
Date: 27.JAN.2022 11:48:27

Highest Band Edge / 1 RB



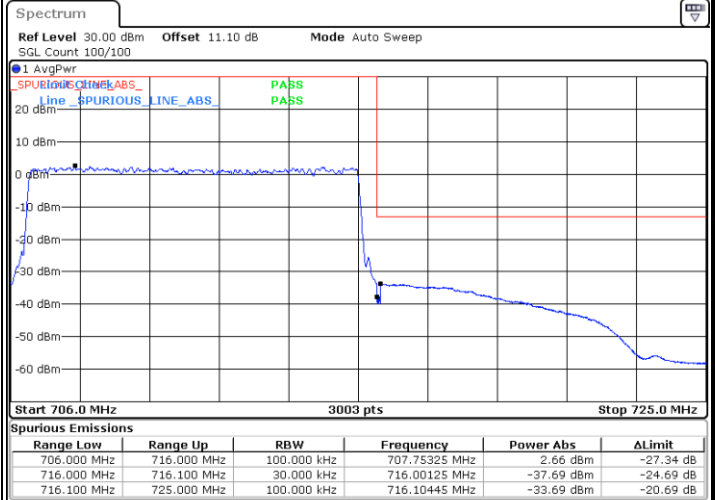
Date: 27.JAN.2022 11:50:30

Lowest Band Edge / Full RB



Date: 27.JAN.2022 11:47:46

Highest Band Edge / Full RB



Date: 27.JAN.2022 11:49:49

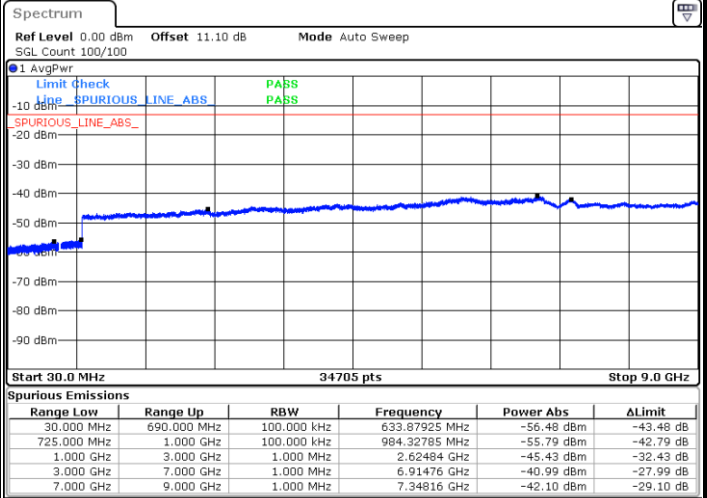
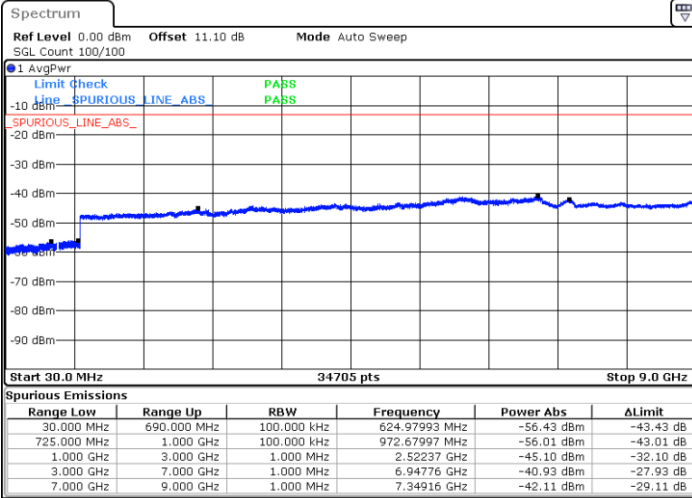


Conducted Spurious Emission

LTE Band 12 / 1.4MHz

Lowest Channel / QPSK

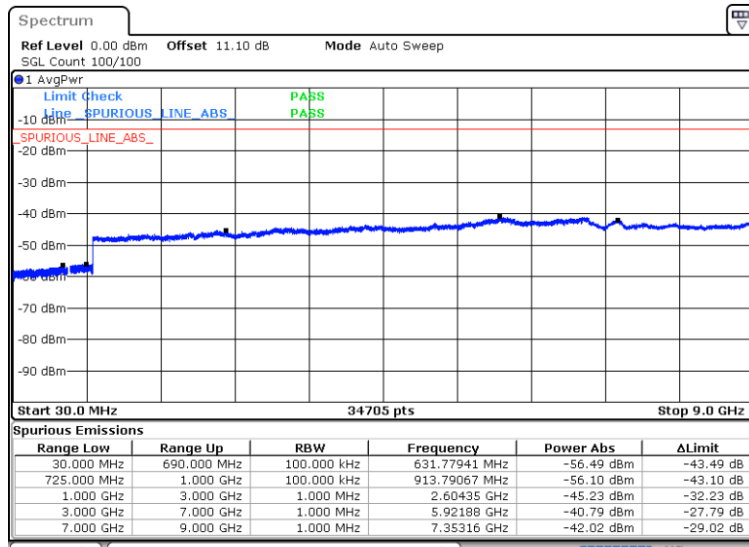
Middle Channel / QPSK



Date: 27.JAN.2022 10:59:36

Date: 27.JAN.2022 11:02:08

Highest Channel / QPSK



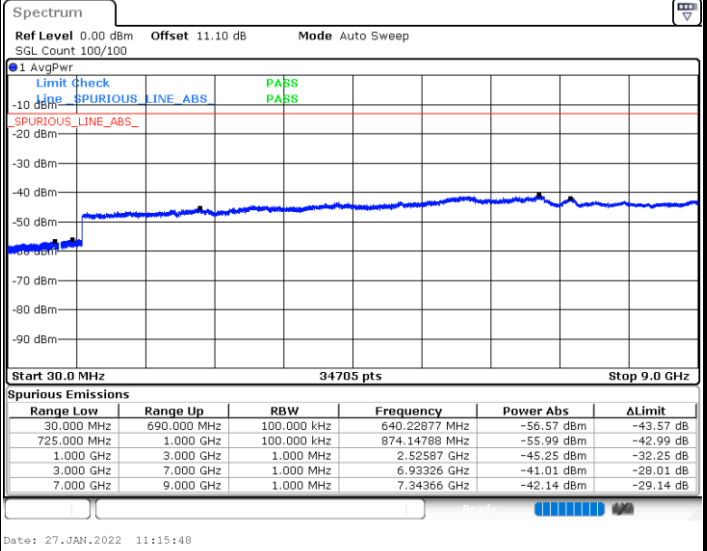
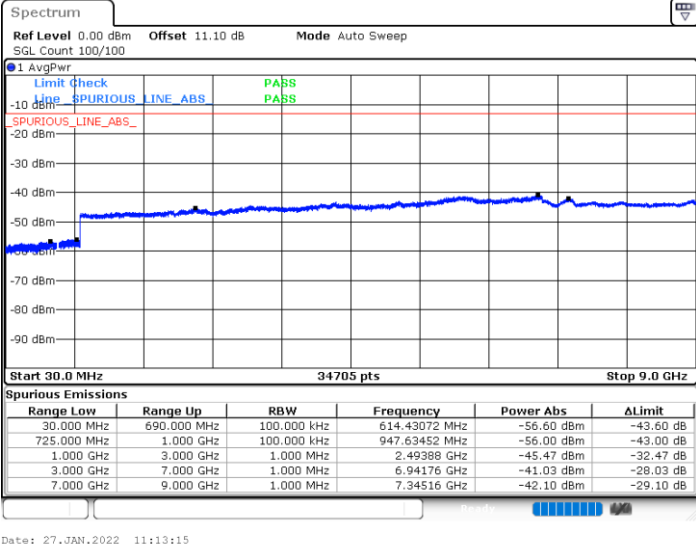
Date: 27.JAN.2022 11:05:59



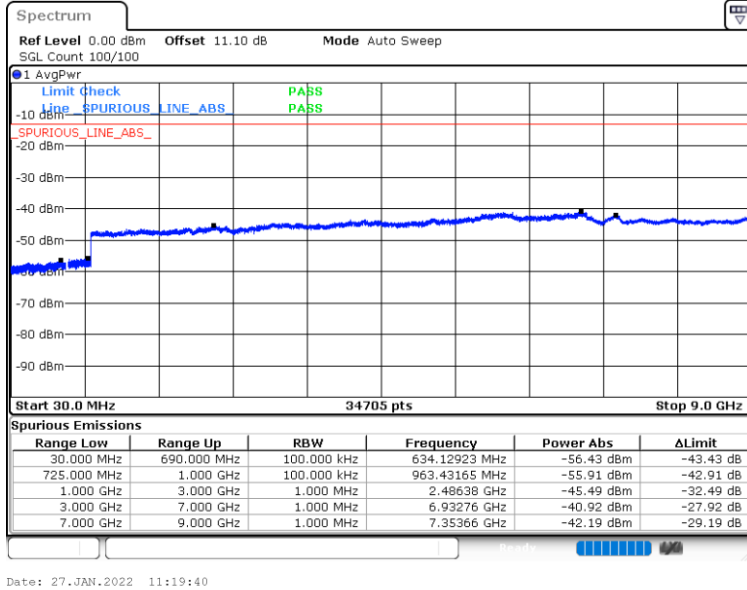
LTE Band 12 / 3MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

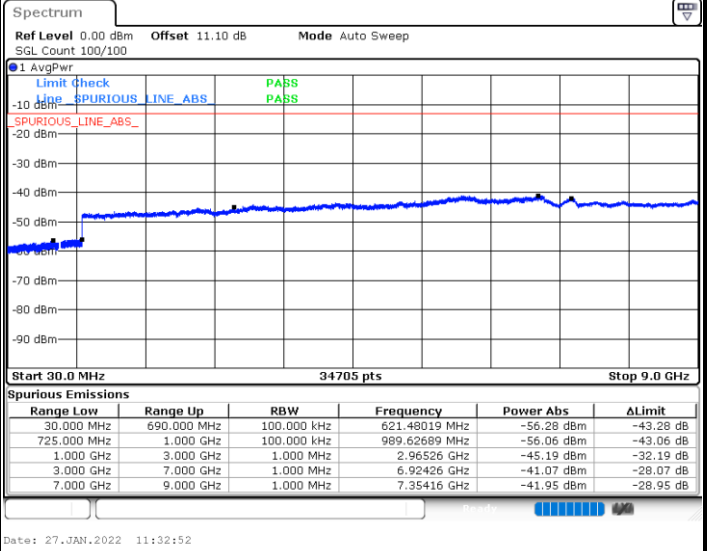
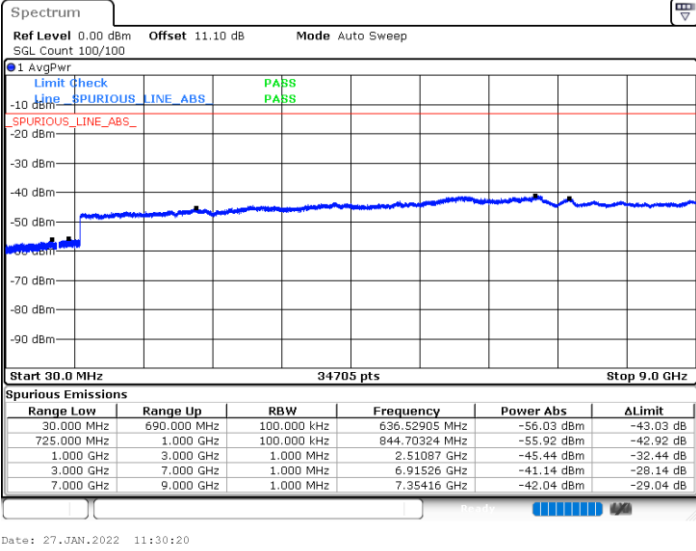




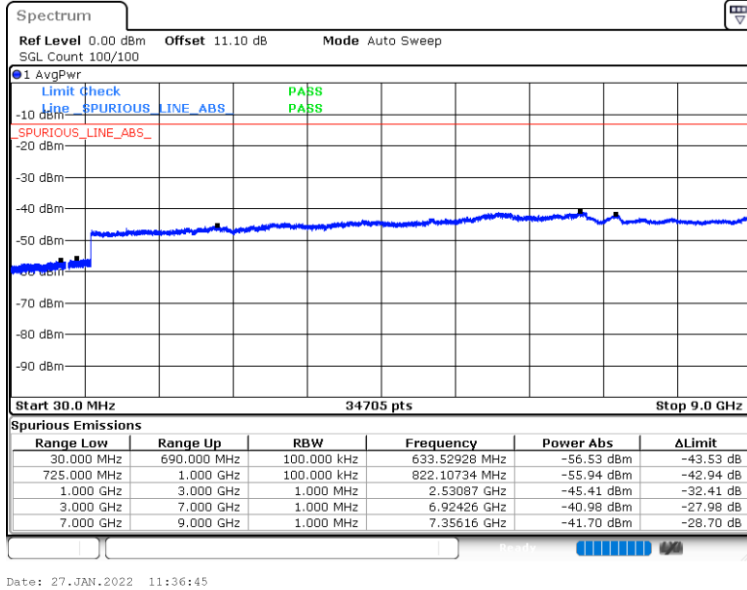
LTE Band 12 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

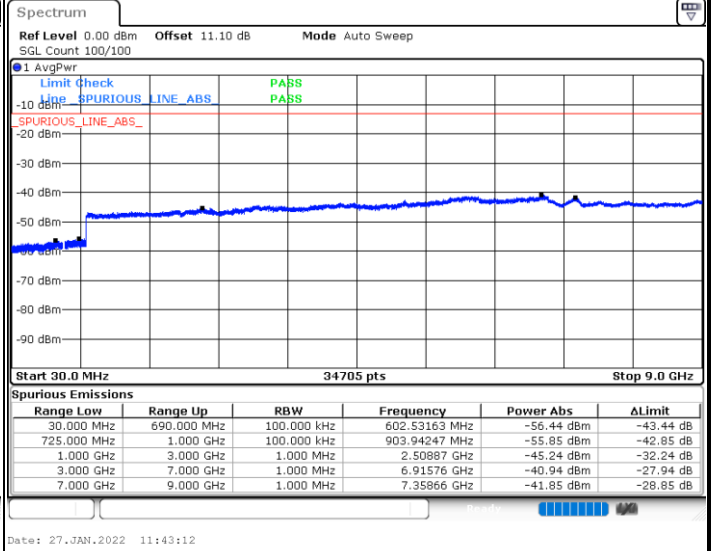
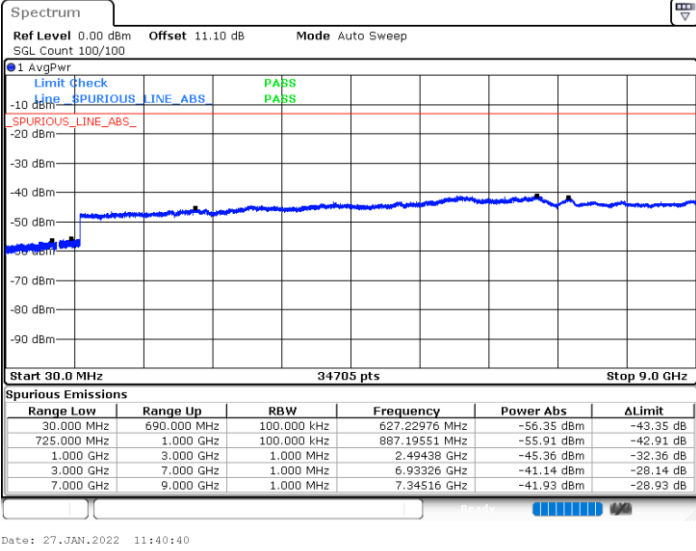




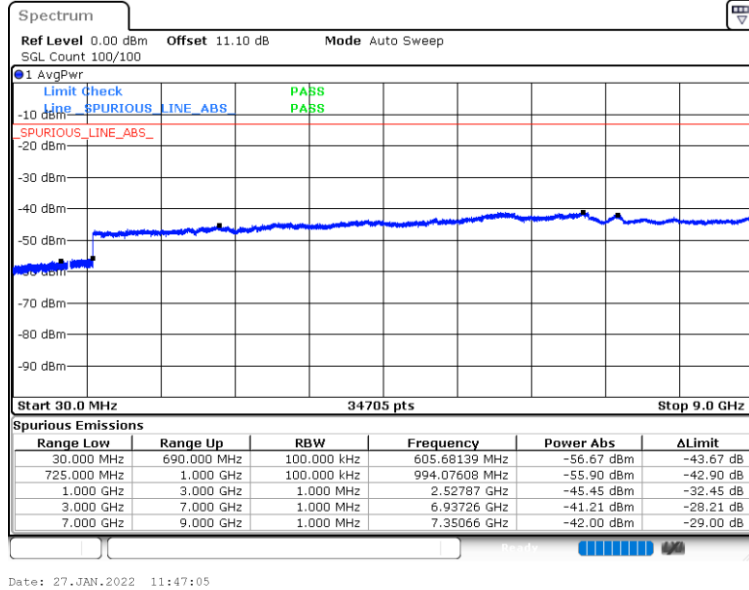
LTE Band 12 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK





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	0.0040	PASS
40	Normal Voltage	0.0073	
30	Normal Voltage	0.0164	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0093	
0	Normal Voltage	0.0082	
-10	Normal Voltage	0.0020	
-20	Normal Voltage	0.0047	
-30	Normal Voltage	0.0092	
20	Maximum Voltage	0.0105	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0028	

Note:

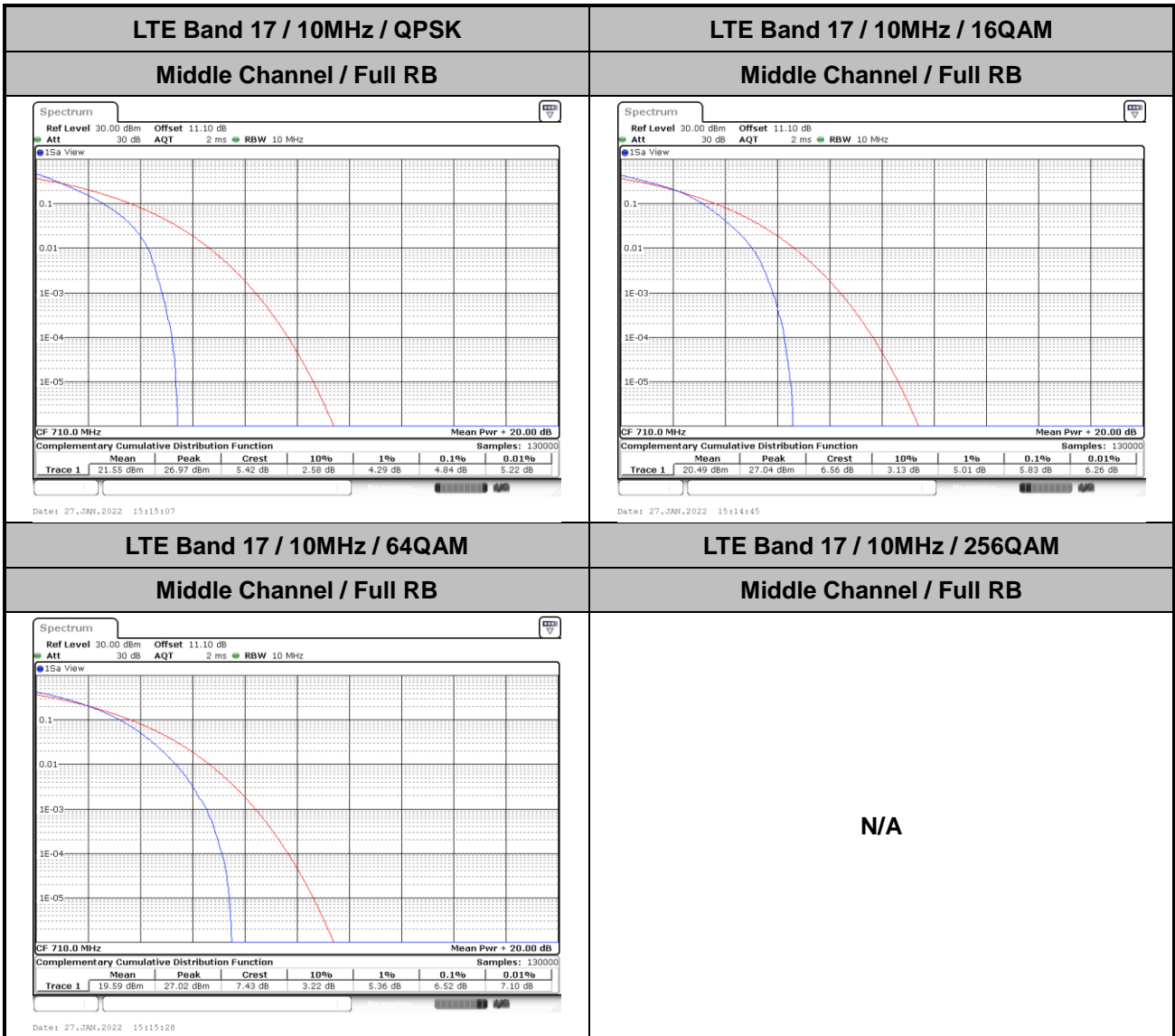
- 1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.2 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 17

Peak-to-Average Ratio

Mode	LTE Band 17 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.84	5.83	6.52	PASS





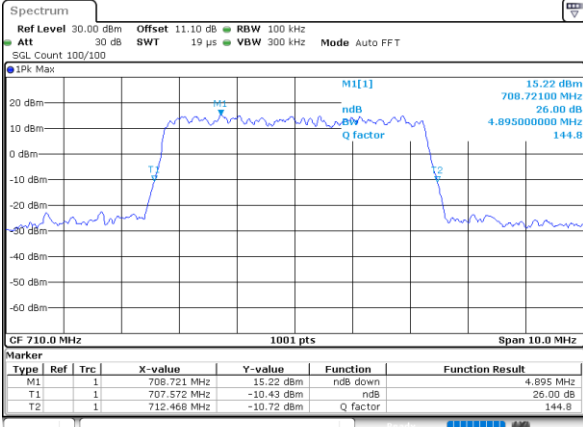
26dB Bandwidth

Mode	LTE Band 17 : 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	-	-	-	-	4.90	4.89	9.73	9.79	-	-	-	-
Mode	LTE Band 17 : 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	-	-	-	-	4.90	-	9.83	-	-	-	-	-



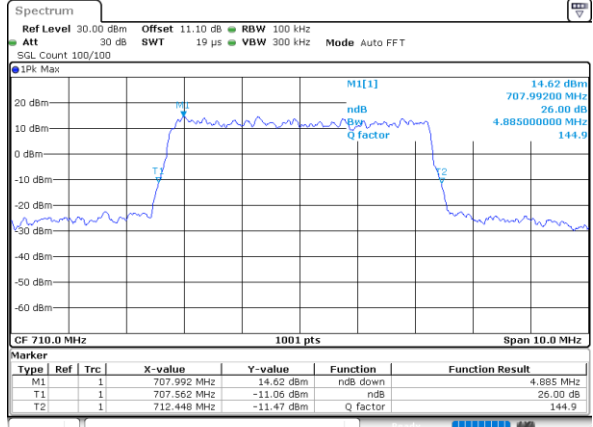
LTE Band 17

Middle Channel / 5MHz / QPSK



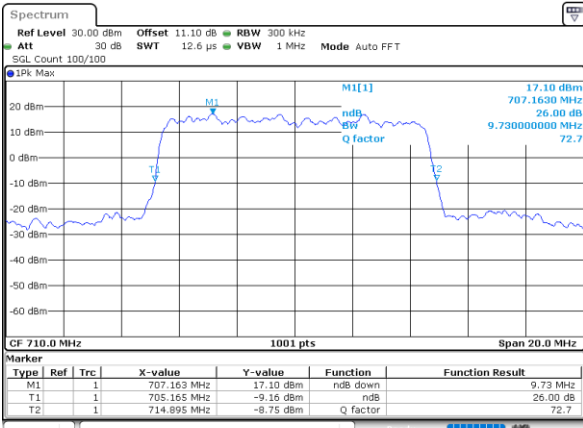
Date: 27_JAN,2022 14:42:01

Middle Channel / 5MHz / 16QAM



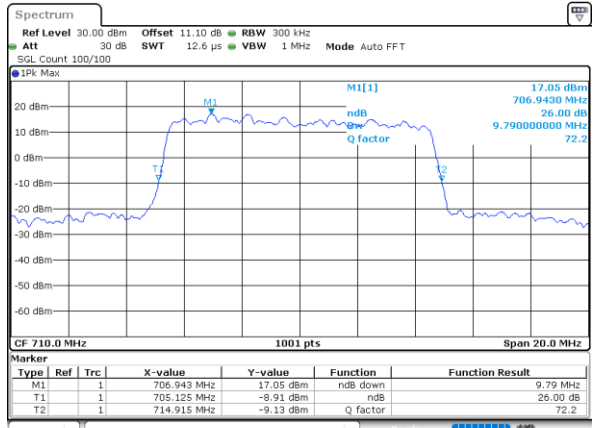
Date: 27_JAN,2022 14:42:12

Middle Channel / 10MHz / QPSK



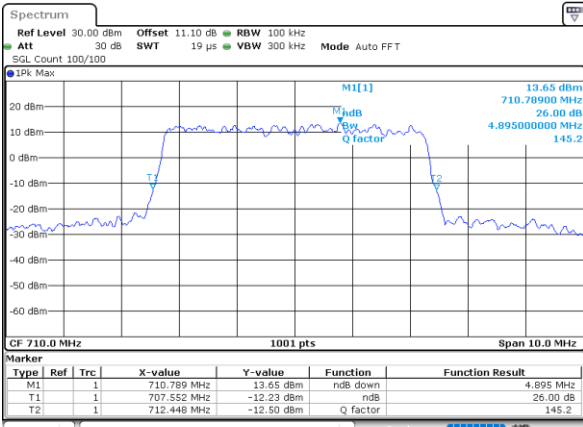
Date: 27_JAN,2022 14:56:15

Middle Channel / 10MHz / 16QAM



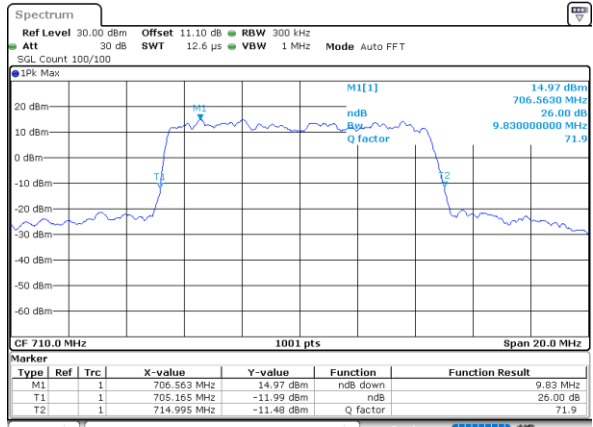
Date: 27_JAN,2022 14:56:36

Middle Channel / 5MHz / 64QAM



Date: 27_JAN,2022 15:06:40

Middle Channel / 10MHz / 64QAM



Date: 27_JAN,2022 15:12:02



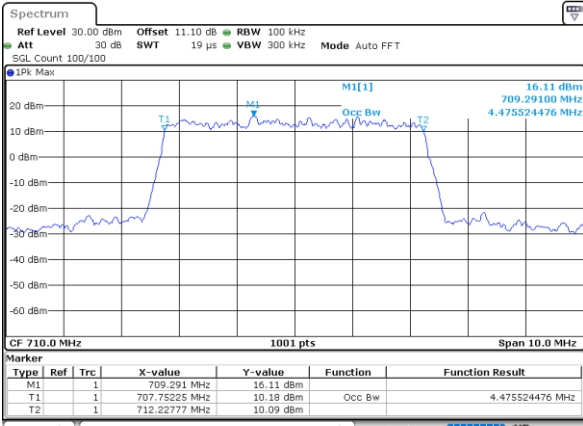
Occupied Bandwidth

Mode	LTE Band 17 : 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	-	-	-	-	4.48	4.49	9.03	9.01	-	-	-	-
Mode	LTE Band 17 : 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	-	-	-	-	4.50	-	9.07	-	-	-	-	-



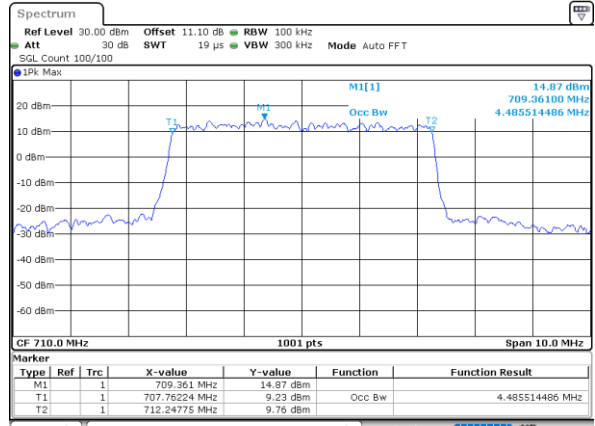
LTE Band 17

Middle Channel / 5MHz / QPSK



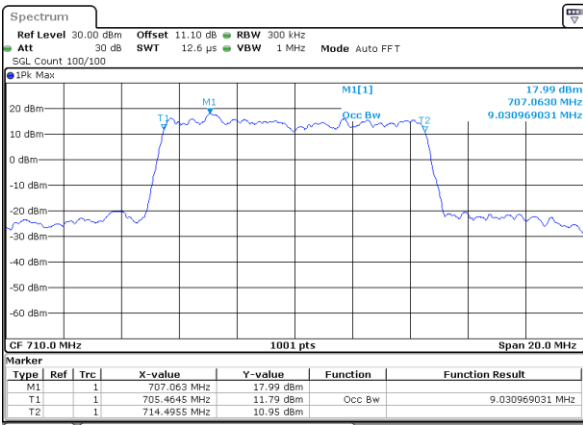
Date: 27_JAN,2022 14:41:20

Middle Channel / 5MHz / 16QAM



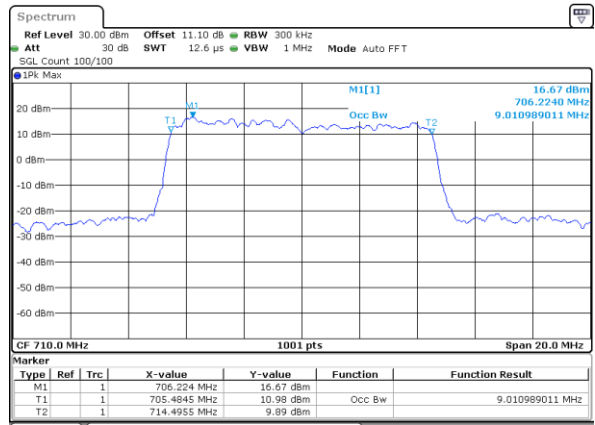
Date: 27_JAN,2022 14:41:41

Middle Channel / 10MHz / QPSK



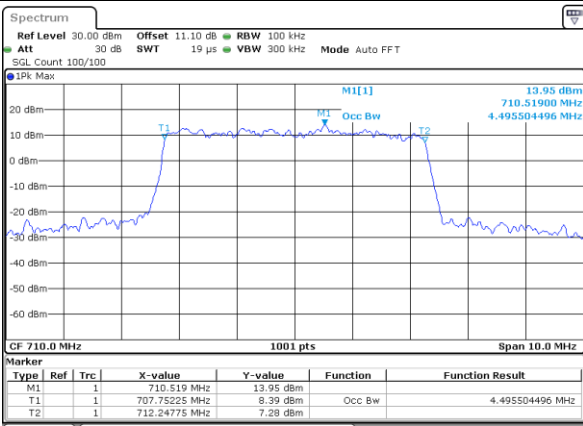
Date: 27_JAN,2022 14:55:04

Middle Channel / 10MHz / 16QAM



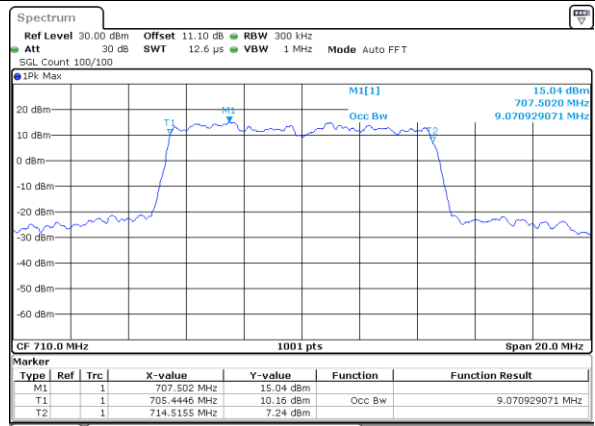
Date: 27_JAN,2022 14:55:55

Middle Channel / 5MHz / 64QAM



Date: 27_JAN,2022 15:06:19

Middle Channel / 10MHz / 64QAM



Date: 27_JAN,2022 15:11:42

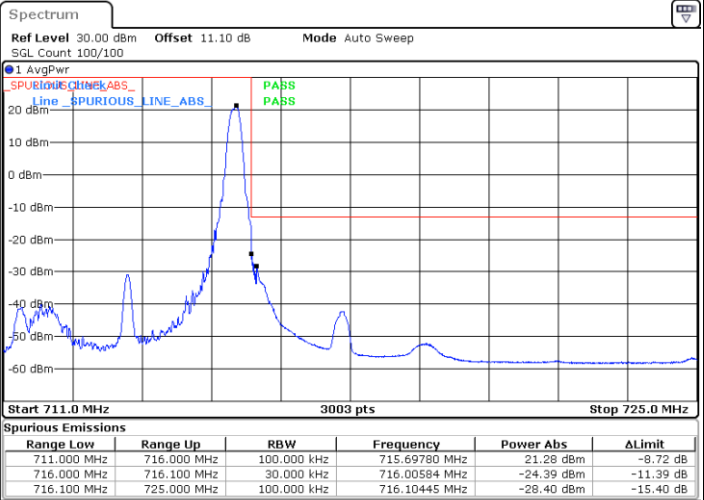
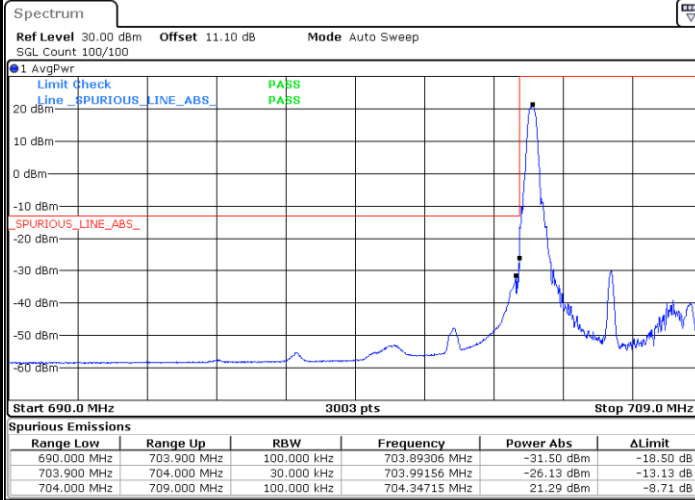


Conducted Band Edge

LTE Band 17 / 5MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

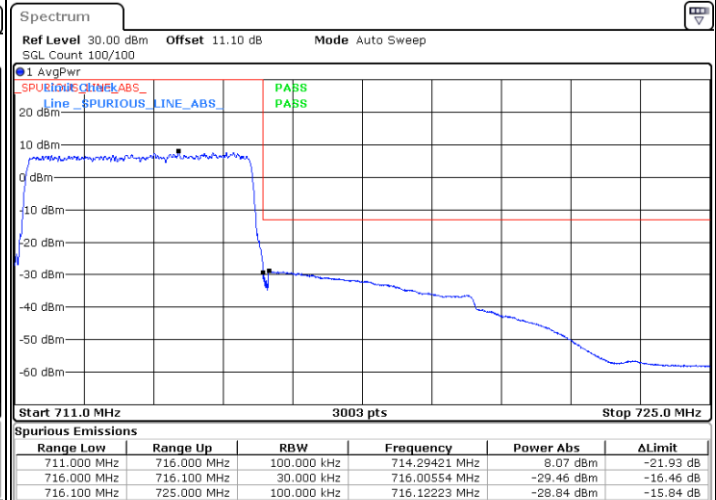
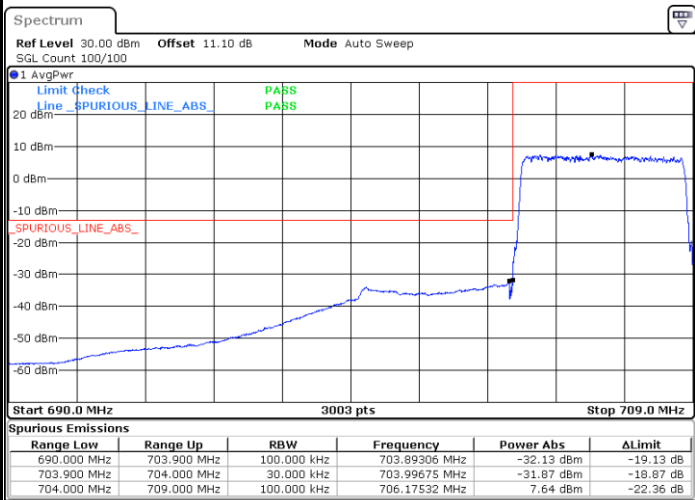


Date: 27.JAN.2022 14:36:17

Date: 27.JAN.2022 14:44:41

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



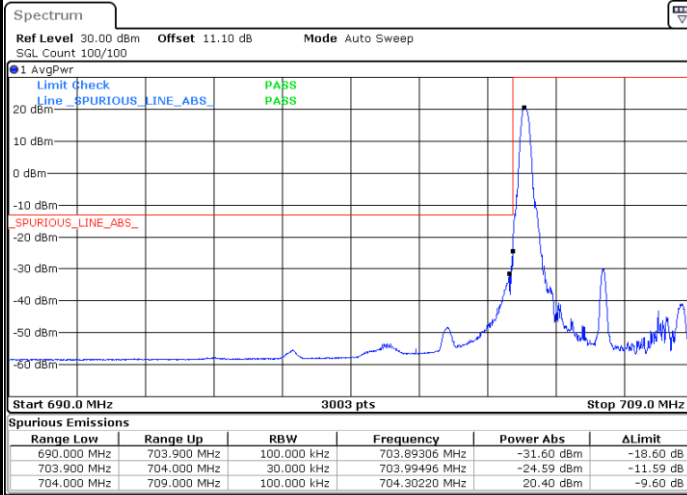
Date: 27.JAN.2022 14:38:38

Date: 27.JAN.2022 14:47:01



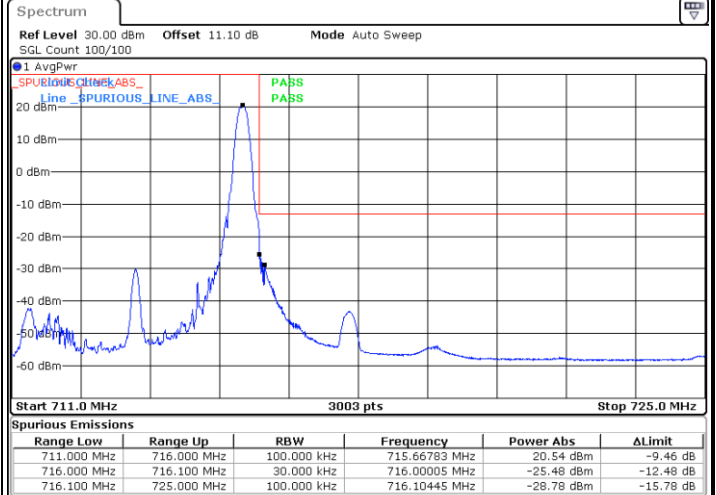
LTE Band 17 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



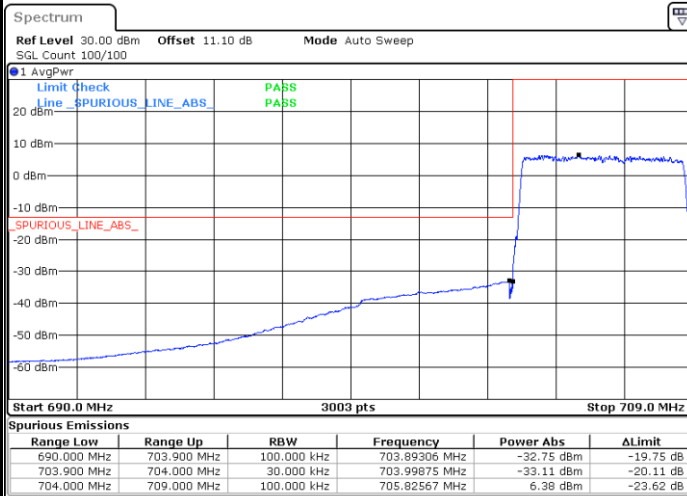
Date: 27.JAN.2022 14:37:28

Highest Band Edge / 1 RB



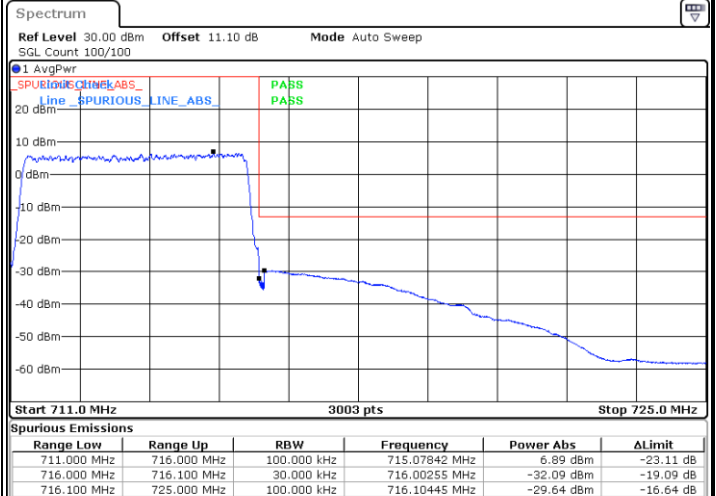
Date: 27.JAN.2022 14:45:51

Lowest Band Edge / Full RB



Date: 27.JAN.2022 14:39:49

Highest Band Edge / Full RB

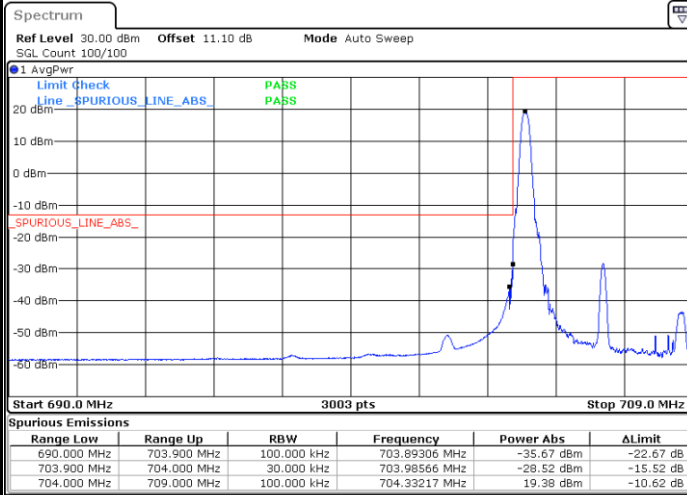


Date: 27.JAN.2022 14:48:11



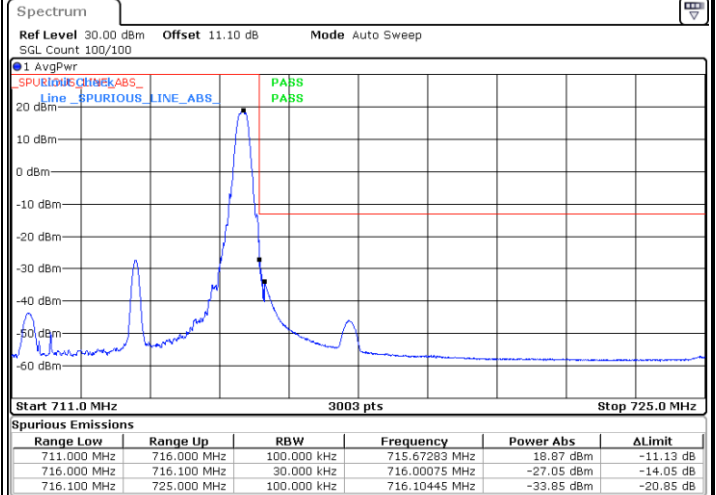
LTE Band 17 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



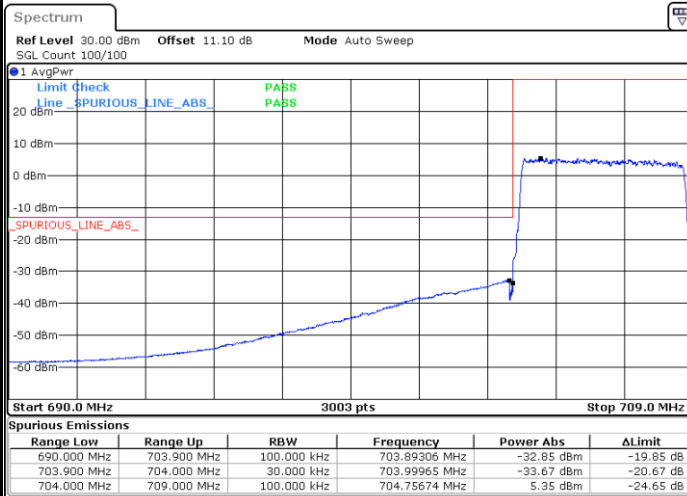
Date: 27.JAN.2022 15:04:48

Highest Band Edge / 1 RB



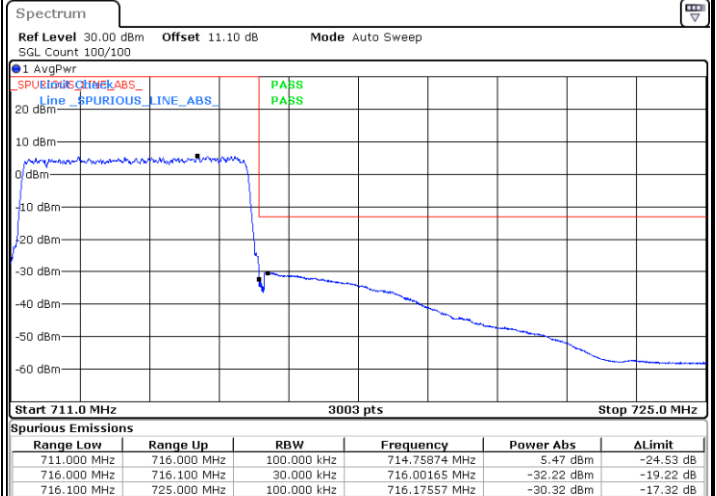
Date: 27.JAN.2022 15:07:49

Lowest Band Edge / Full RB



Date: 27.JAN.2022 15:05:58

Highest Band Edge / Full RB

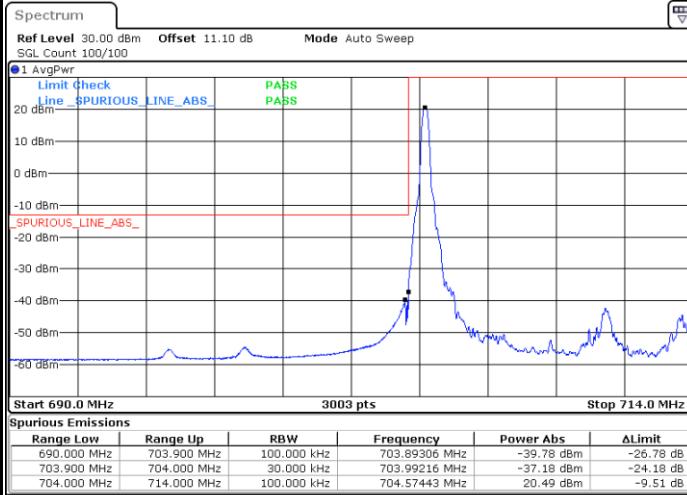


Date: 27.JAN.2022 15:09:00



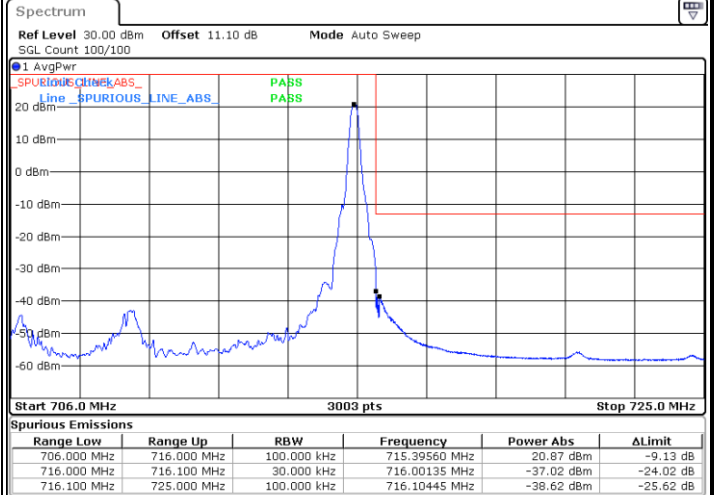
LTE Band 17 / 10MHz / QPSK

Lowest Band Edge / 1 RB



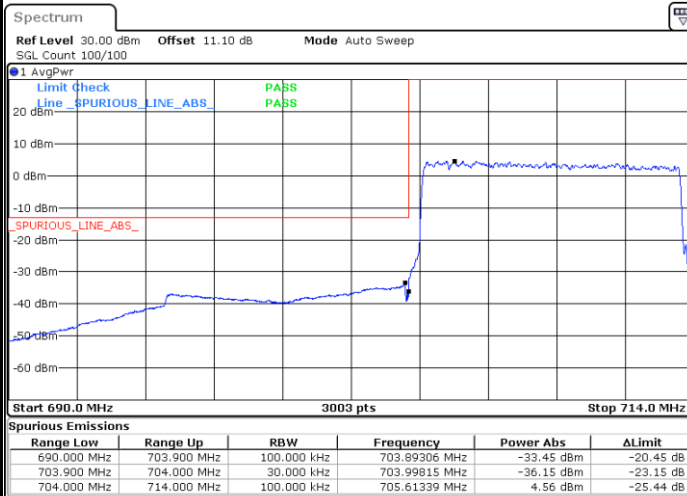
Date: 27.JAN.2022 14:50:32

Highest Band Edge / 1 RB



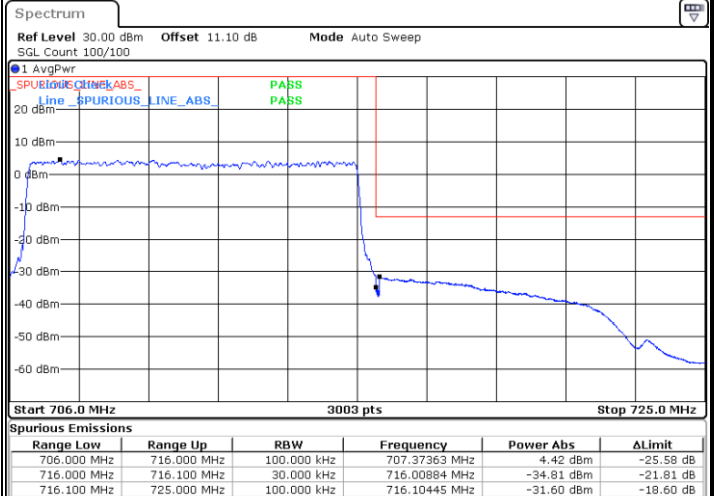
Date: 27.JAN.2022 14:58:55

Lowest Band Edge / Full RB



Date: 27.JAN.2022 14:52:53

Highest Band Edge / Full RB

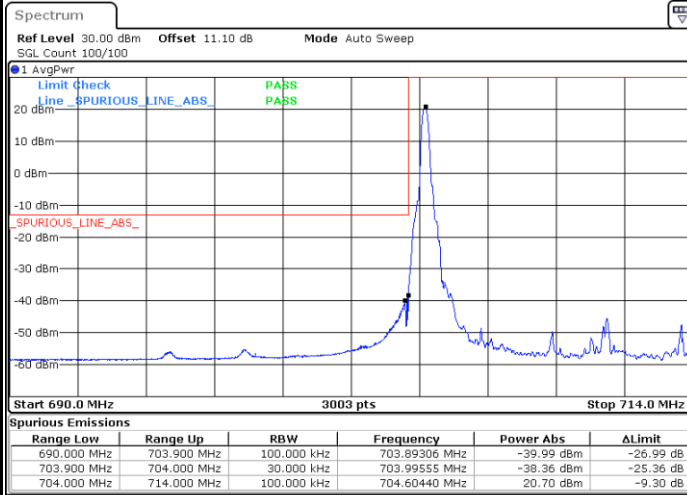


Date: 27.JAN.2022 15:01:16



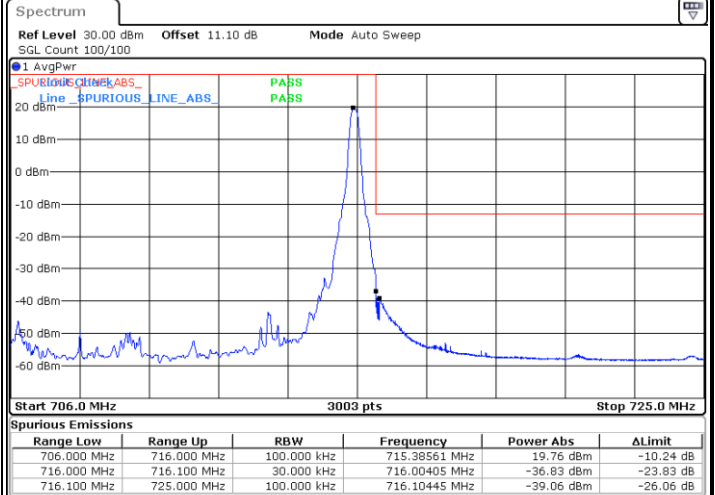
LTE Band 17 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



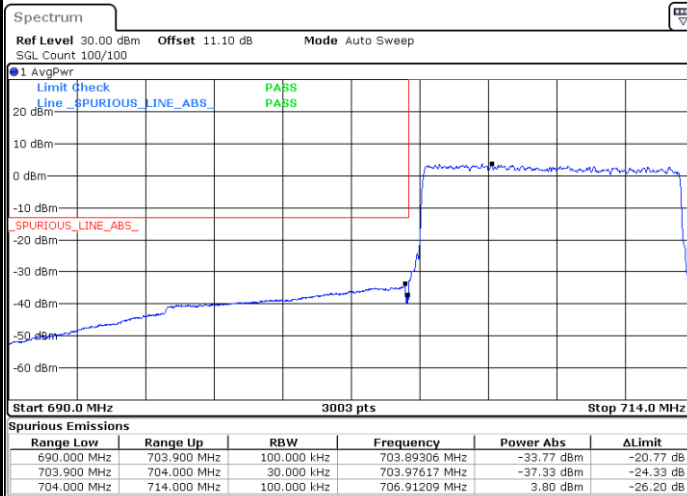
Date: 27.JAN.2022 14:51:43

Highest Band Edge / 1 RB



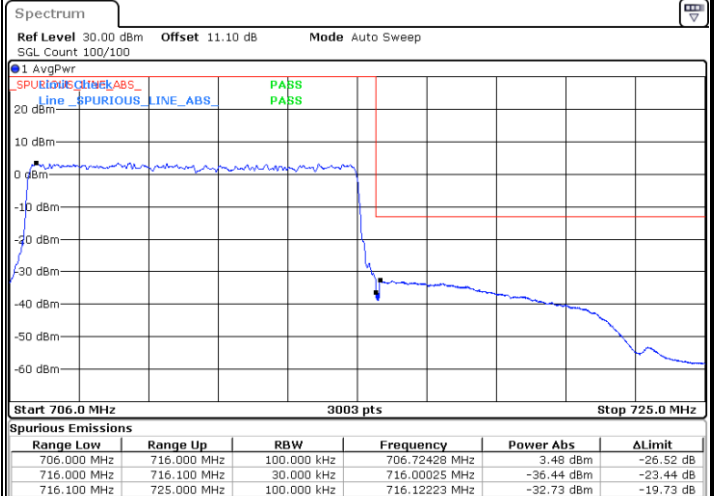
Date: 27.JAN.2022 15:00:05

Lowest Band Edge / Full RB



Date: 27.JAN.2022 14:54:03

Highest Band Edge / Full RB



Date: 27.JAN.2022 15:02:26