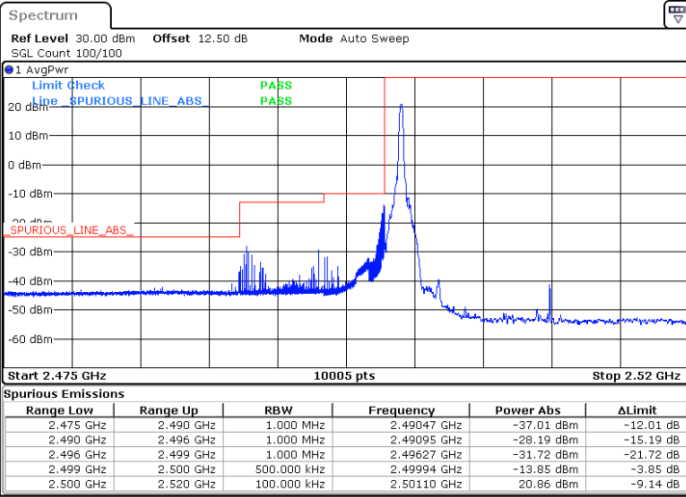




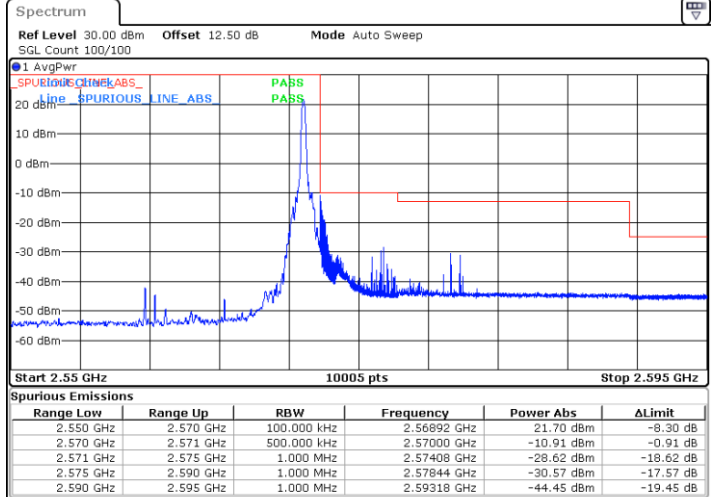
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



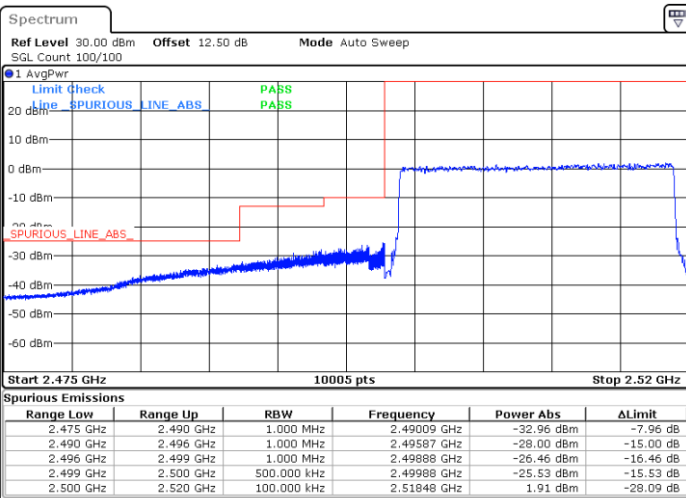
Date: 31.AUG.2022 19:49:08

Highest Band Edge / 1 RB



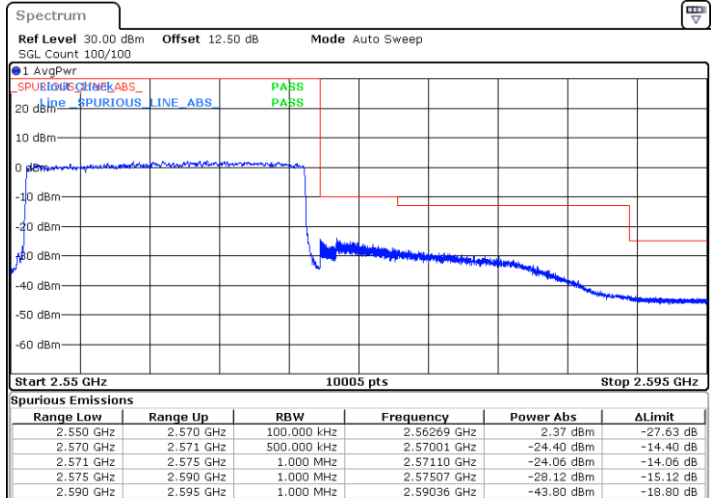
Date: 31.AUG.2022 19:56:36

Lowest Band Edge / Full RB



Date: 31.AUG.2022 19:50:47

Highest Band Edge / Full RB

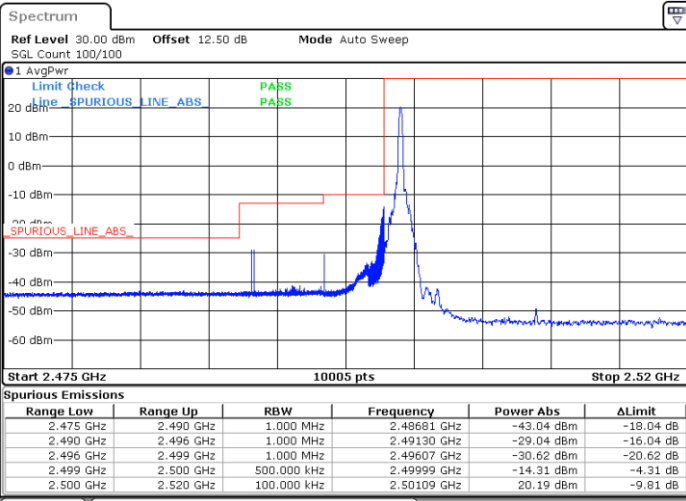


Date: 31.AUG.2022 19:57:25



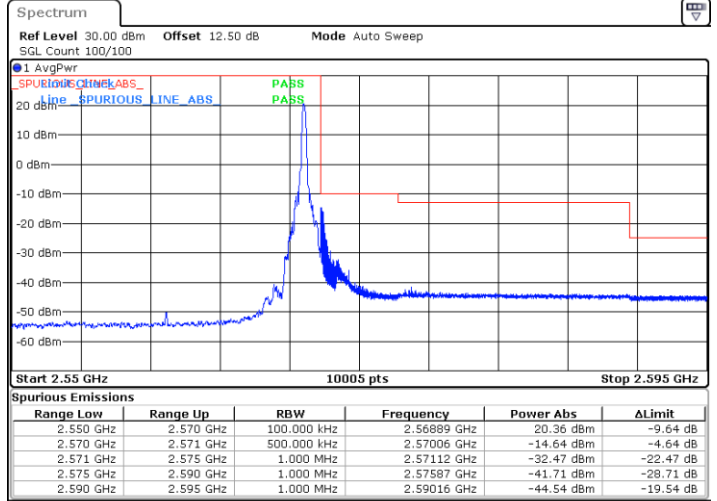
LTE Band 7 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



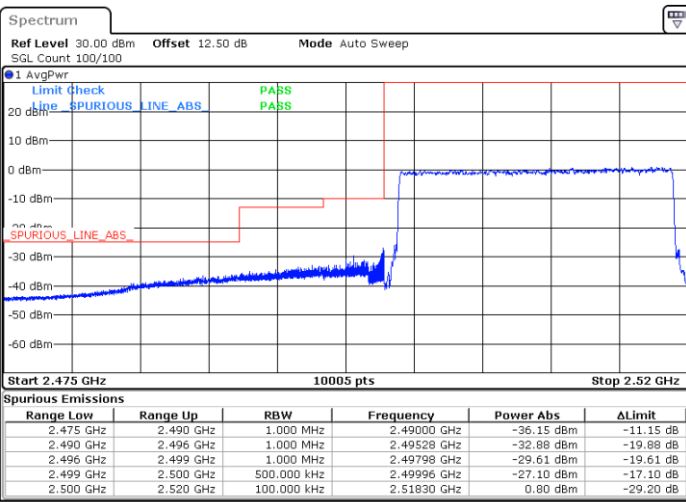
Date: 31.AUG.2022 20:00:10

Highest Band Edge / 1 RB



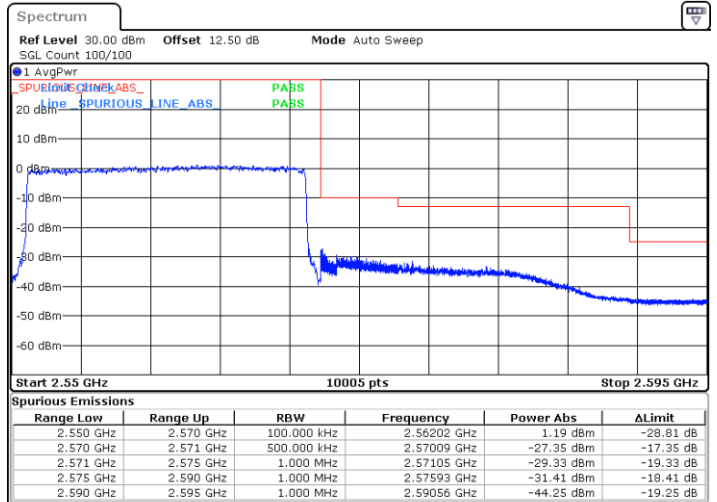
Date: 31.AUG.2022 20:02:32

Lowest Band Edge / Full RB



Date: 31.AUG.2022 20:01:00

Highest Band Edge / Full RB

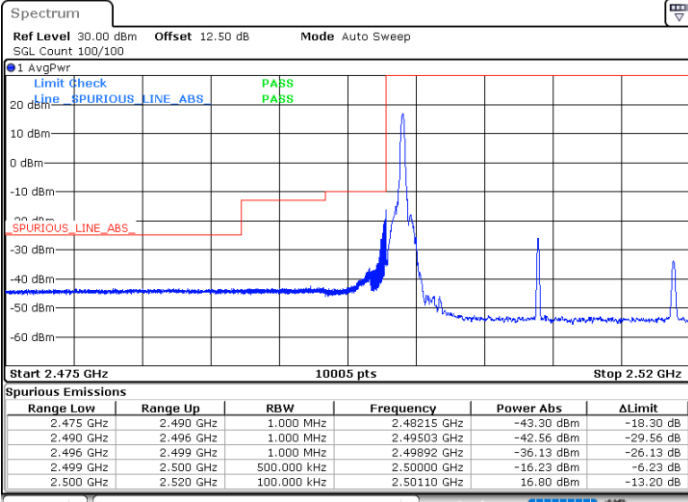


Date: 31.AUG.2022 20:03:21



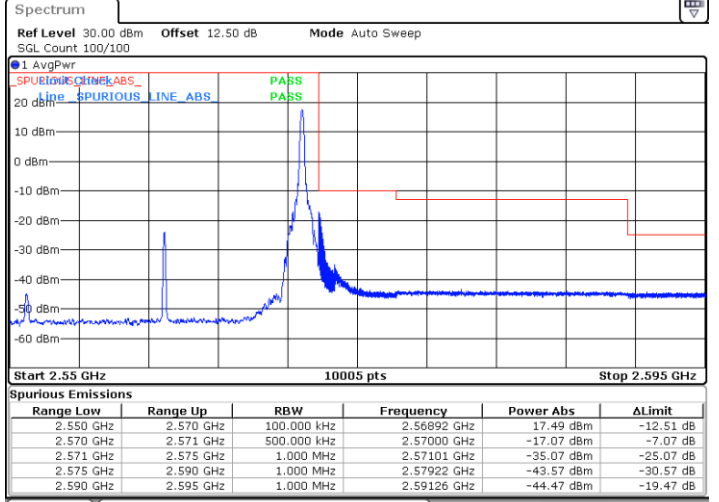
LTE Band 7 / 20MHz / 256QAM

Lowest Band Edge / 1 RB



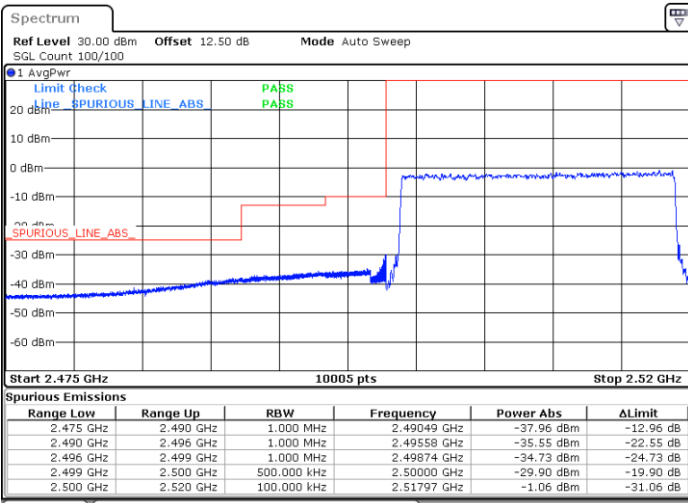
Date: 31.AUG.2022 20:33:53

Highest Band Edge / 1 RB



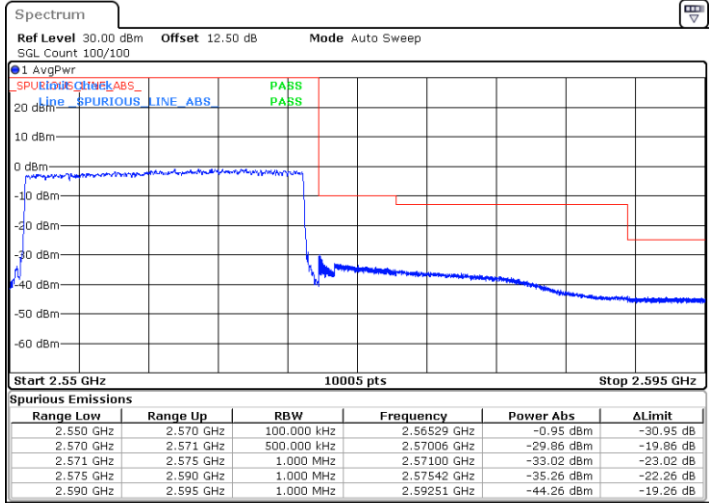
Date: 31.AUG.2022 20:36:18

Lowest Band Edge / Full RB



Date: 31.AUG.2022 20:34:46

Highest Band Edge / Full RB



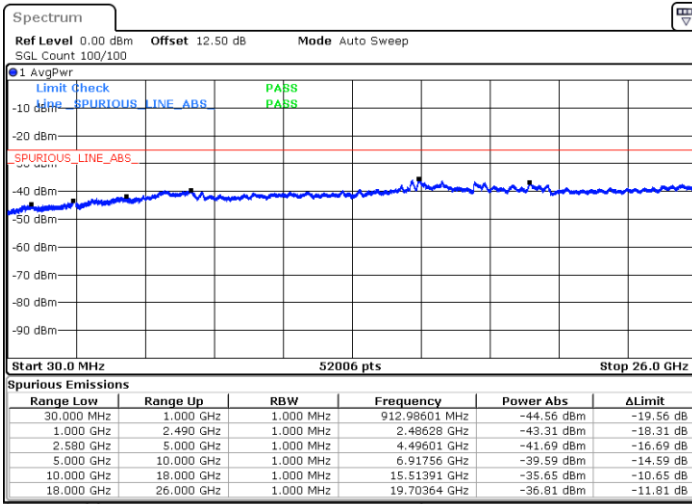
Date: 31.AUG.2022 20:37:09



Conducted Spurious Emission

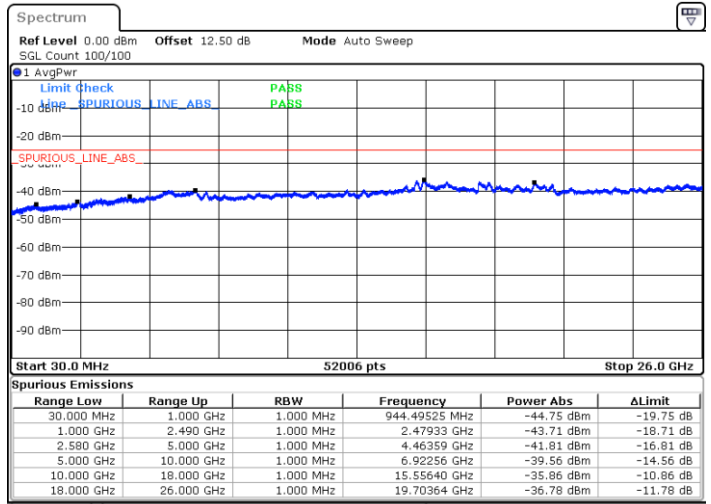
LTE Band 7 / 5MHz

Lowest Channel / QPSK



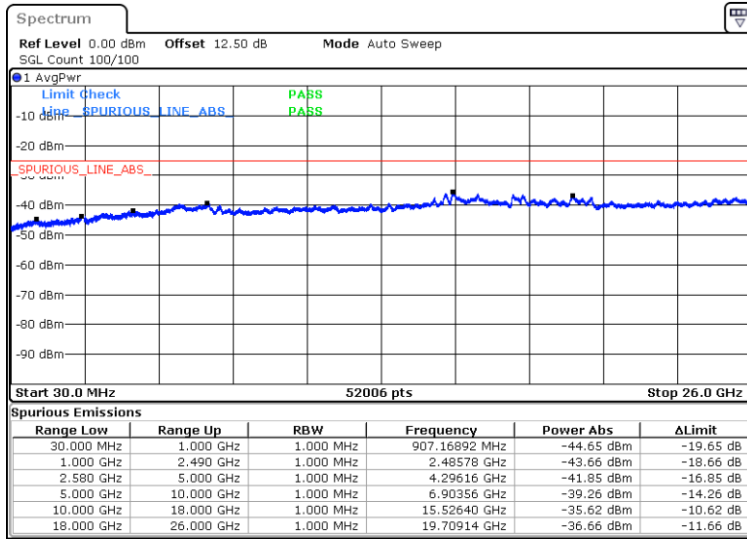
Date: 31.AUG.2022 18:56:02

Middle Channel / QPSK



Date: 31.AUG.2022 18:59:06

Highest Channel / QPSK

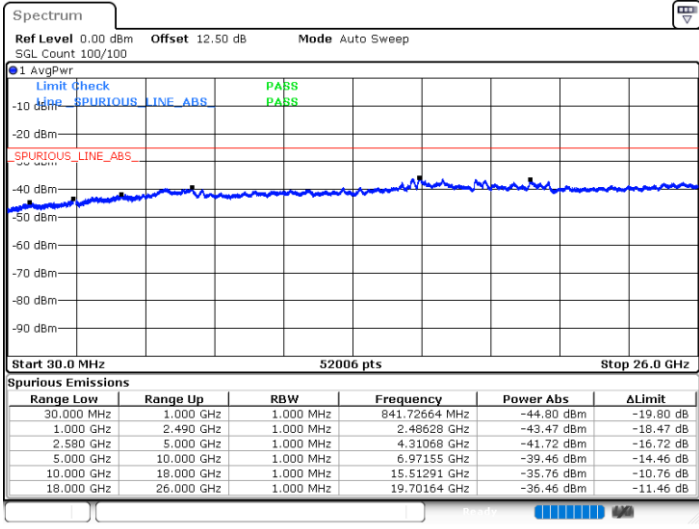


Date: 31.AUG.2022 19:03:29



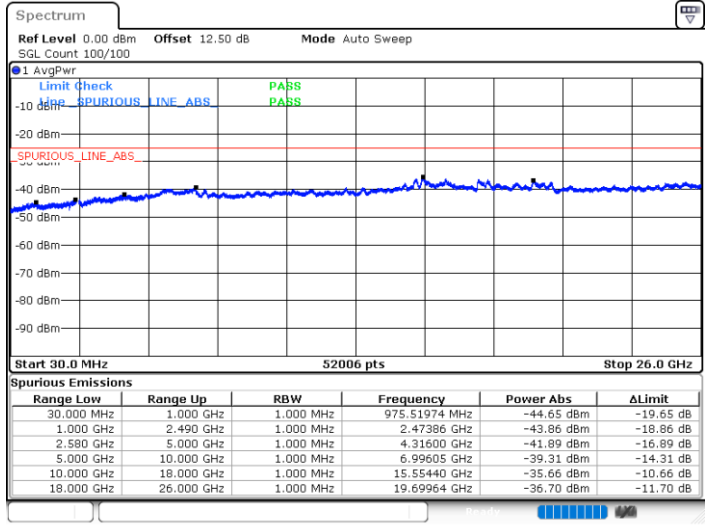
LTE Band 7 / 10MHz

Lowest Channel / QPSK



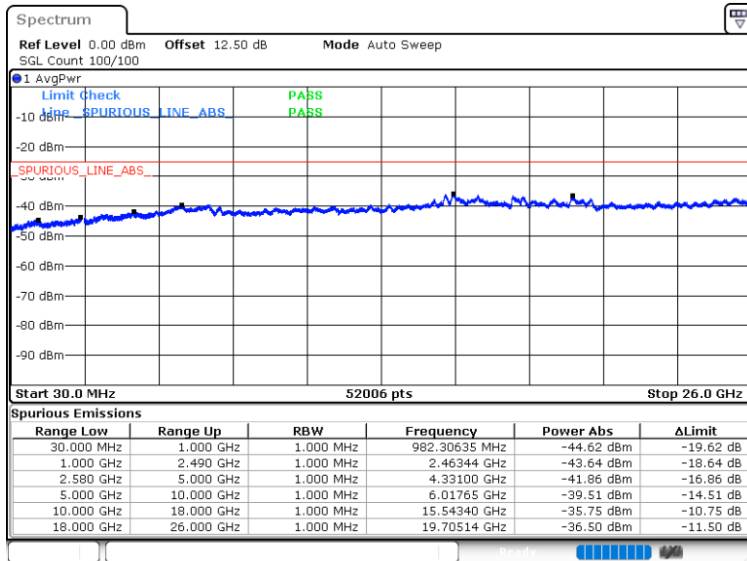
Date: 31.AUG.2022 19:19:59

Middle Channel / QPSK



Date: 31.AUG.2022 19:23:03

Highest Channel / QPSK

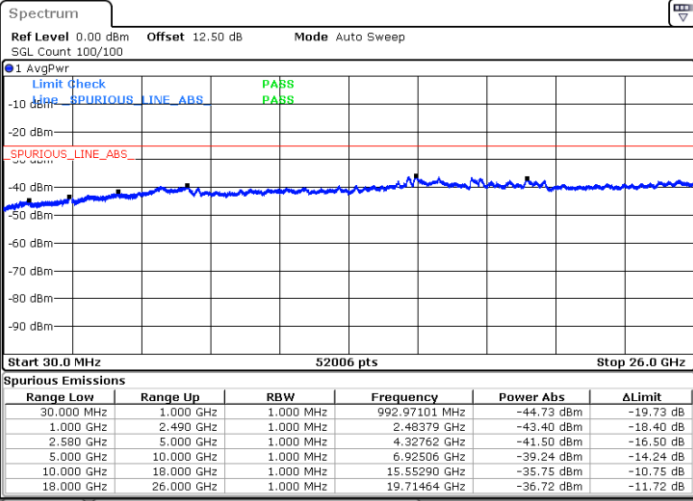


Date: 31.AUG.2022 19:27:26



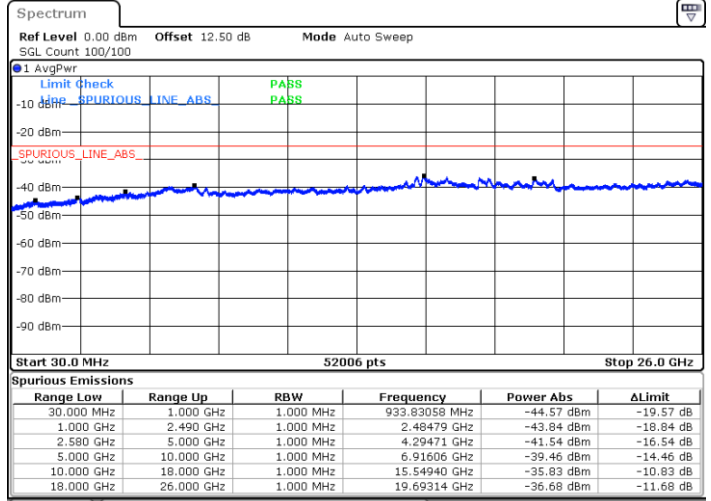
LTE Band 7 / 15MHz

Lowest Channel / QPSK



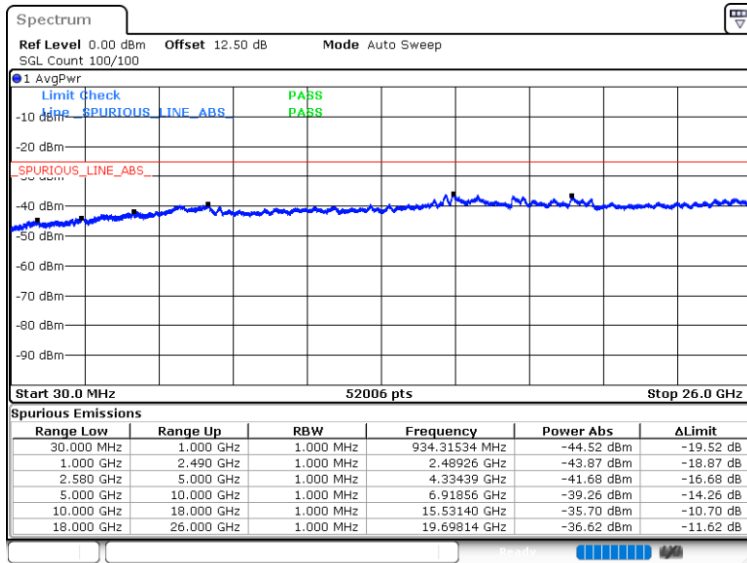
Date: 31.AUG.2022 19:35:56

Middle Channel / QPSK



Date: 31.AUG.2022 19:39:00

Highest Channel / QPSK

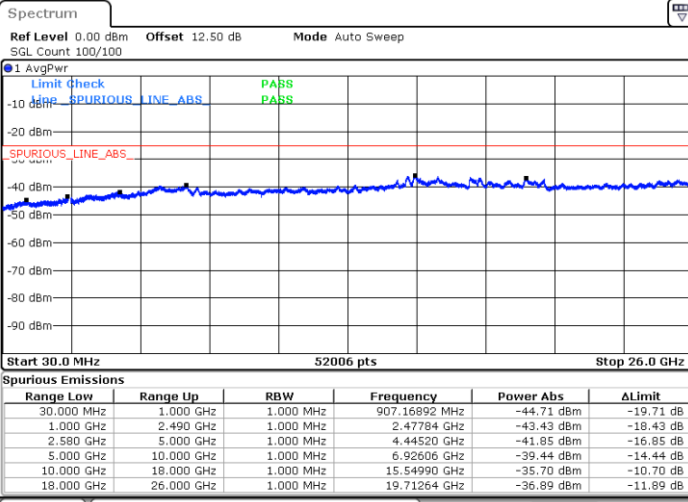


Date: 31.AUG.2022 19:43:24



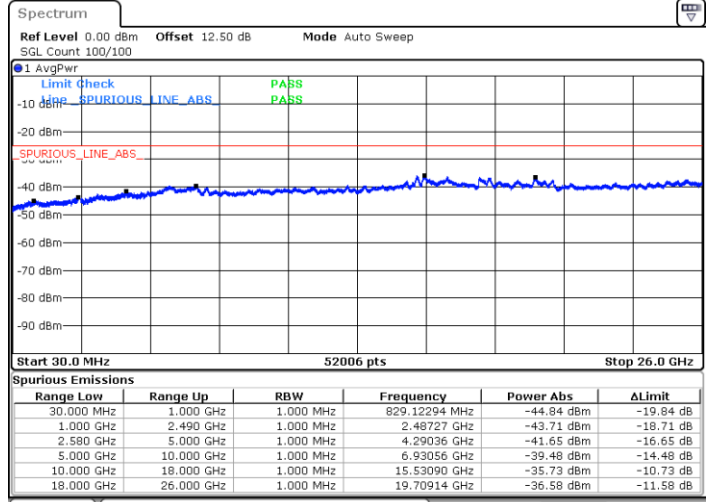
LTE Band 7 / 20MHz

Lowest Channel / QPSK



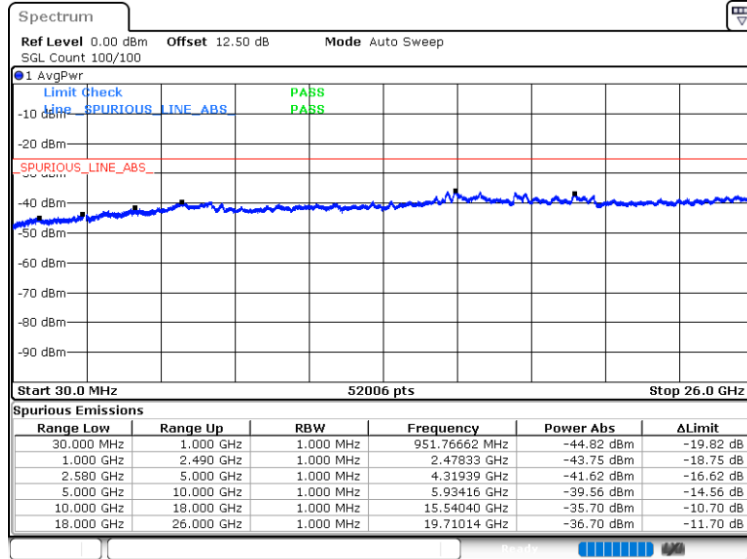
Date: 31.AUG.2022 19:51:55

Middle Channel / QPSK



Date: 31.AUG.2022 19:54:58

Highest Channel / QPSK



Date: 31.AUG.2022 19:59:21



Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0009	PASS
40	Normal Voltage	0.0056	
30	Normal Voltage	0.0009	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0009	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0035	
-20	Normal Voltage	0.0034	
-30	Normal Voltage	0.0040	
20	Maximum Voltage	0.0062	
20	Normal Voltage	0.0009	
20	Battery End Point	0.0002	

Note:

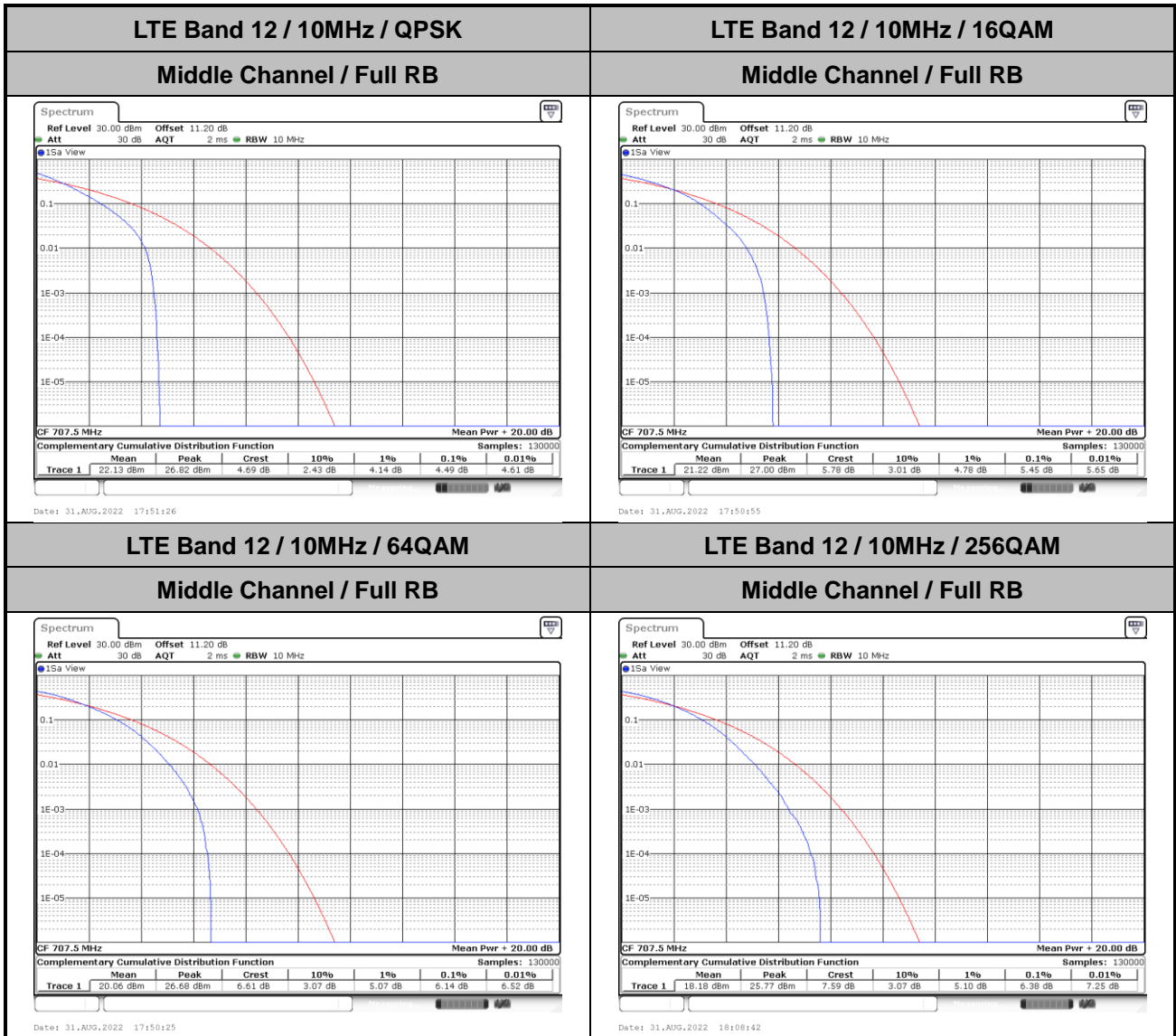
- 1. Normal Voltage = 3.85 V. ; Battery End Point (BEP) = 3.3 V. ; Maximum Voltage = 4.25 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



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	4.49	5.45	6.14	6.38	PASS





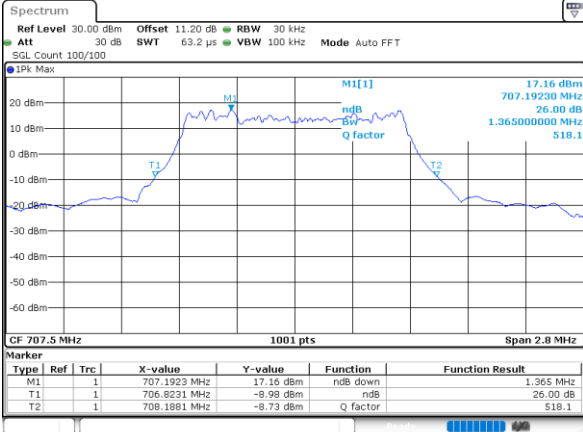
26dB Bandwidth

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	1.37	1.29	3.09	2.97	5.11	5.11	9.85	9.83	-	-	-	-
Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	1.37	1.33	3.10	3.11	5.00	4.98	9.81	9.65	-	-	-	-



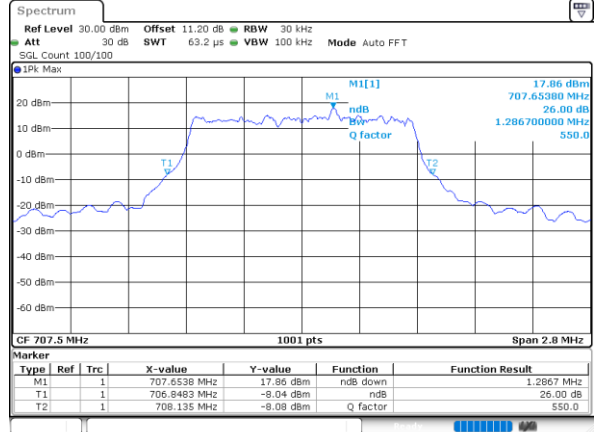
LTE Band 12

Middle Channel / 1.4MHz / QPSK



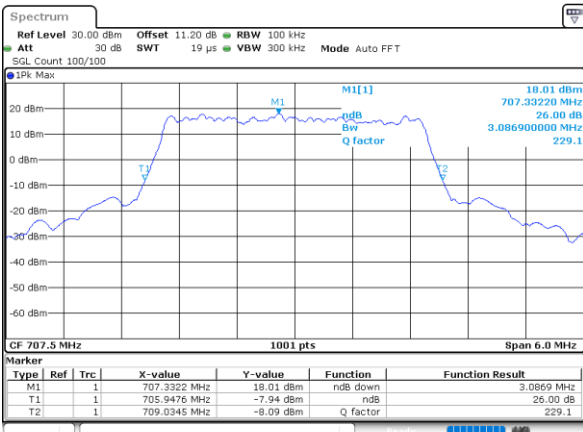
Date: 31.AUG.2022 16:39:00

Middle Channel / 1.4MHz / 16QAM



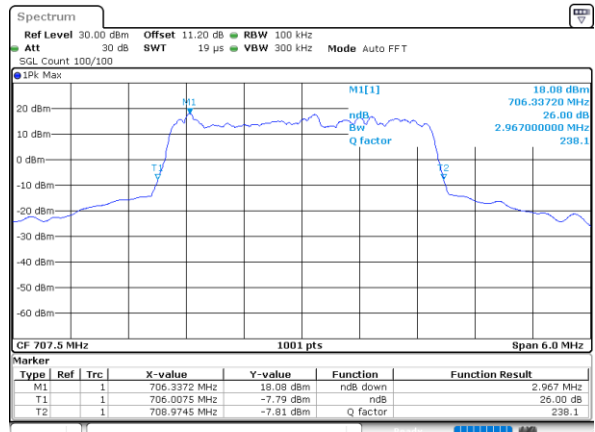
Date: 31.AUG.2022 16:39:29

Middle Channel / 3MHz / QPSK



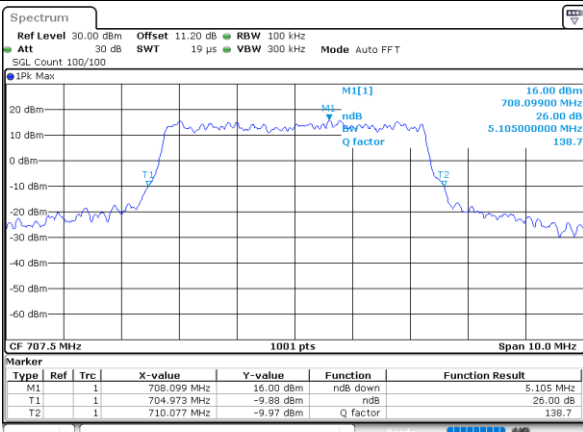
Date: 31.AUG.2022 17:08:40

Middle Channel / 3MHz / 16QAM



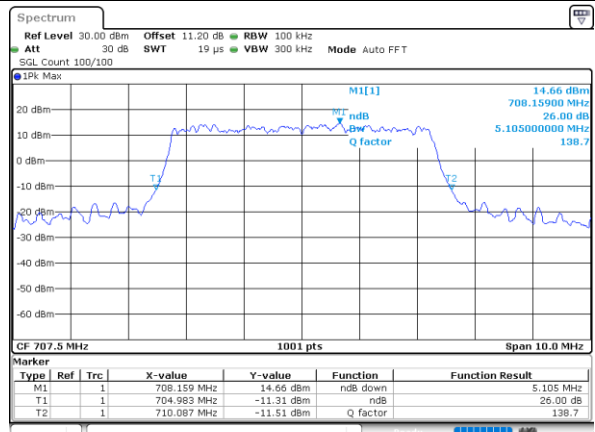
Date: 31.AUG.2022 17:08:09

Middle Channel / 5MHz / QPSK



Date: 31.AUG.2022 17:28:15

Middle Channel / 5MHz / 16QAM

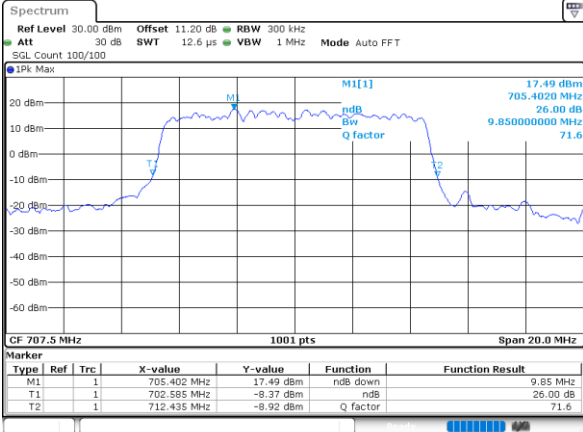


Date: 31.AUG.2022 17:28:44



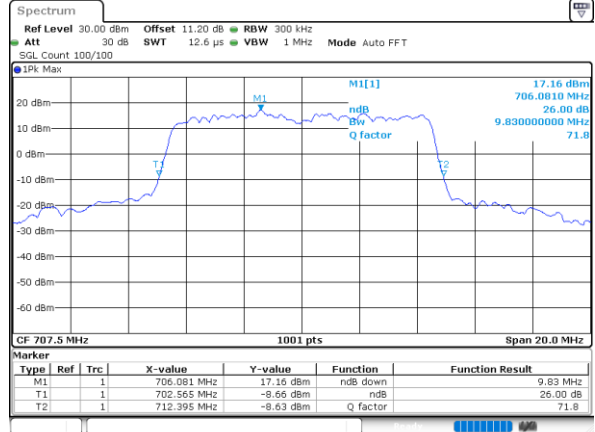
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 31.AUG.2022 17:39:40

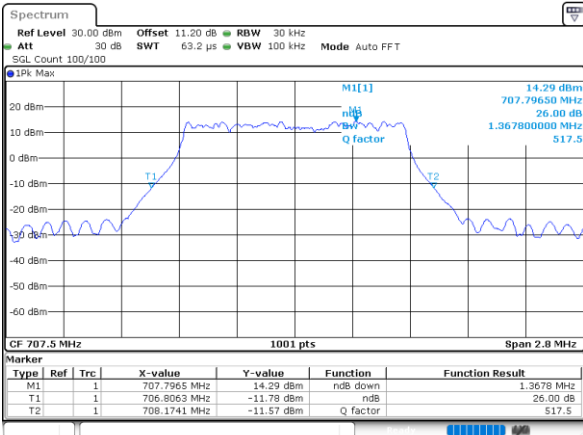
Middle Channel / 10MHz / 16QAM



Date: 31.AUG.2022 17:40:17

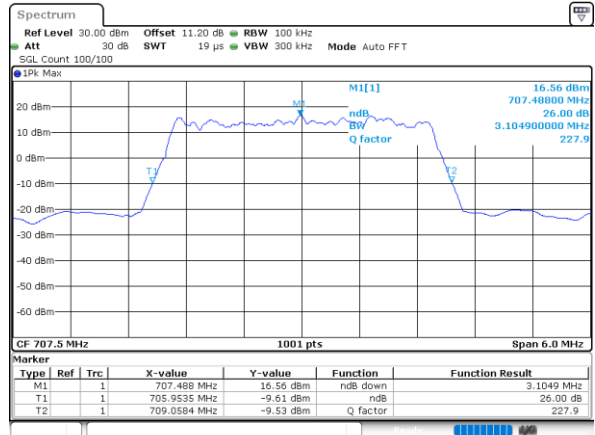
LTE Band 12

Middle Channel / 1.4MHz / 64QAM



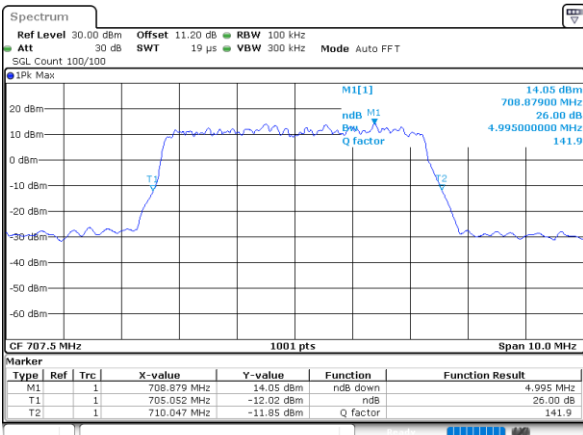
Date: 31.AUG.2022 16:48:33

Middle Channel / 3MHz / 64QAM



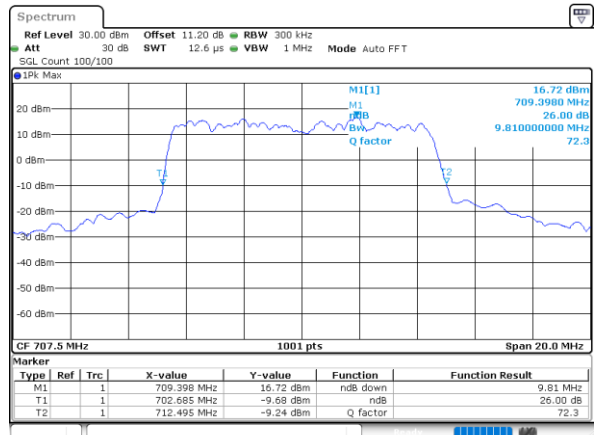
Date: 31.AUG.2022 17:17:07

Middle Channel / 5MHz / 64QAM



Date: 31.AUG.2022 17:21:13

Middle Channel / 10MHz / 64QAM

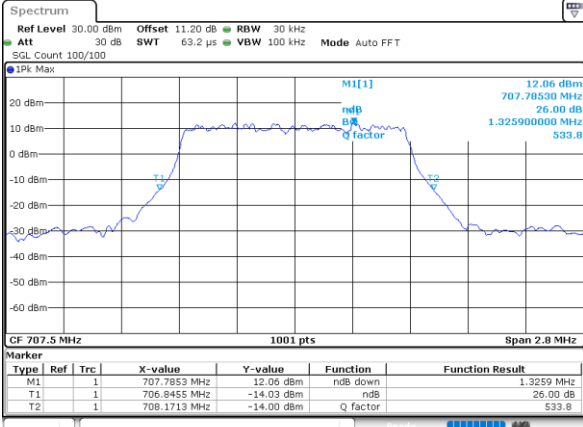


Date: 31.AUG.2022 17:48:15



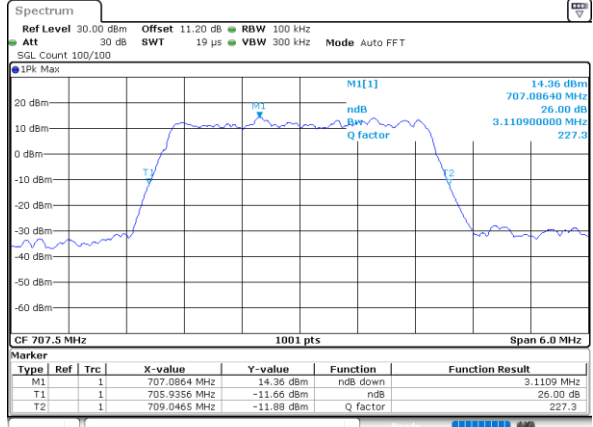
LTE Band 12

Middle Channel / 1.4MHz / 256QAM



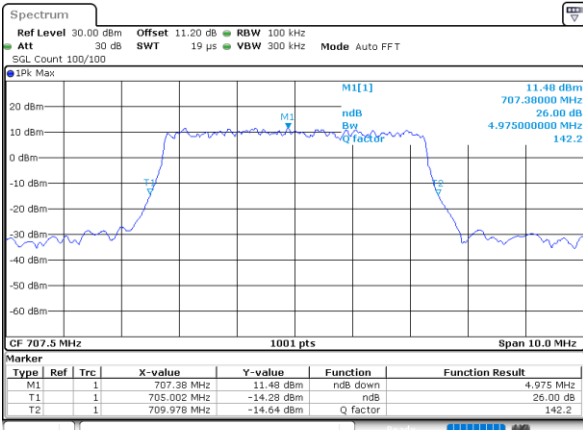
Date: 31.AUG.2022 17:53:56

Middle Channel / 3MHz / 256QAM



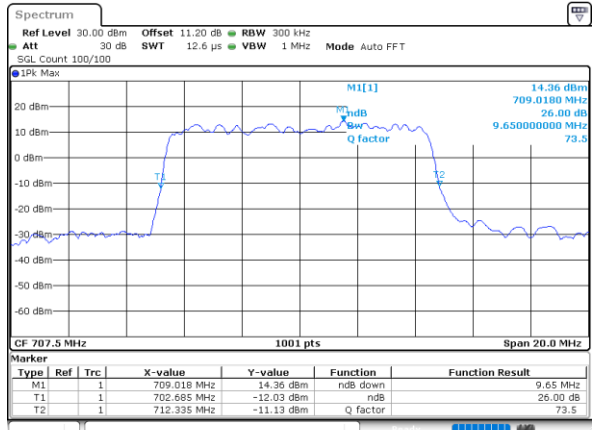
Date: 31.AUG.2022 17:58:06

Middle Channel / 5MHz / 256QAM



Date: 31.AUG.2022 18:02:18

Middle Channel / 10MHz / 256QAM



Date: 31.AUG.2022 18:06:29



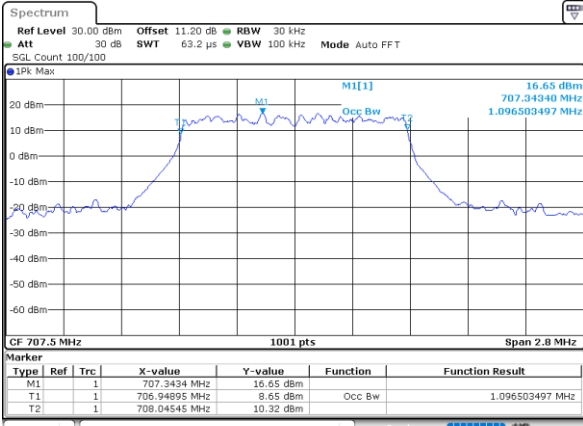
Occupied Bandwidth

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	1.10	1.10	2.73	2.74	4.51	4.48	9.01	9.03	-	-	-	-
Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	1.10	1.09	2.73	2.73	4.49	4.50	9.01	9.05	-	-	-	-



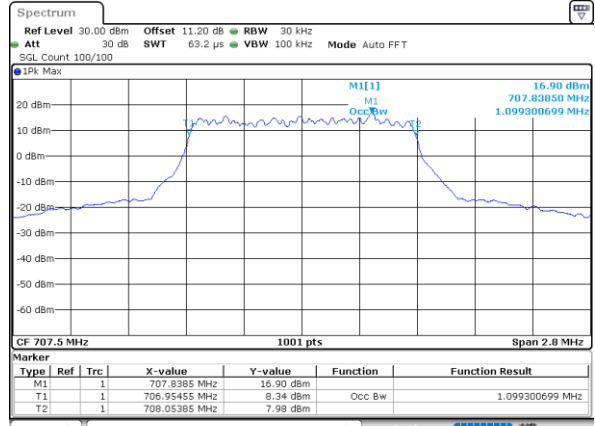
LTE Band 12

Middle Channel / 1.4MHz / QPSK



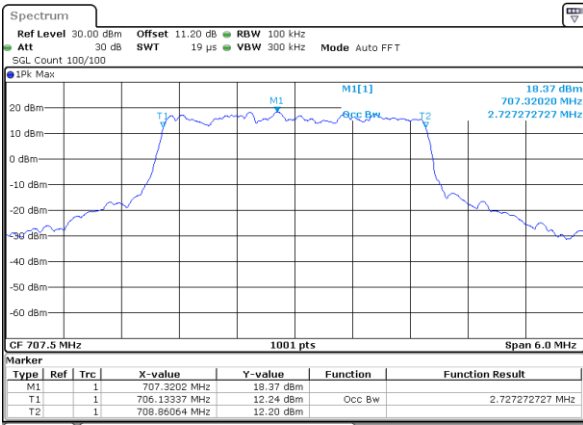
Date: 31.AUG.2022 16:38:46

Middle Channel / 1.4MHz / 16QAM



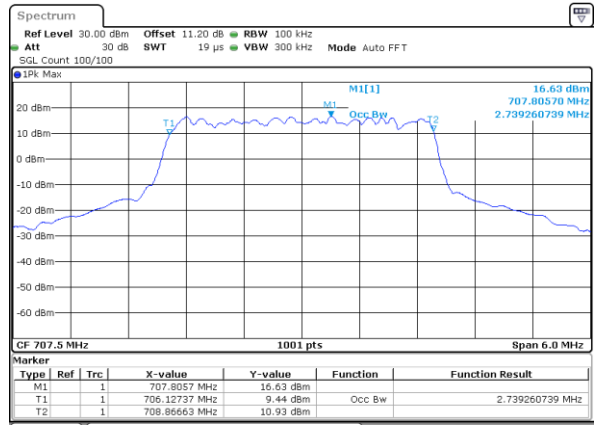
Date: 31.AUG.2022 16:38:17

Middle Channel / 3MHz / QPSK



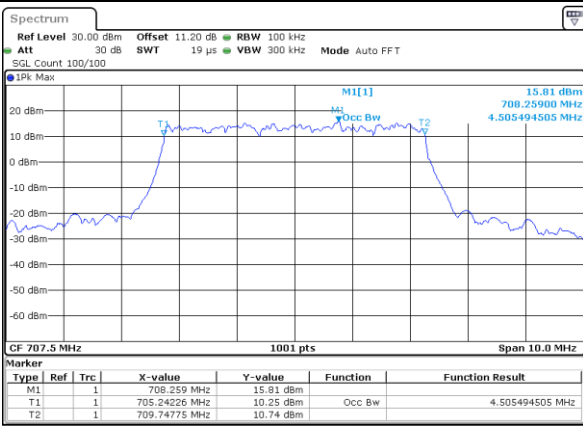
Date: 31.AUG.2022 17:08:26

Middle Channel / 3MHz / 16QAM



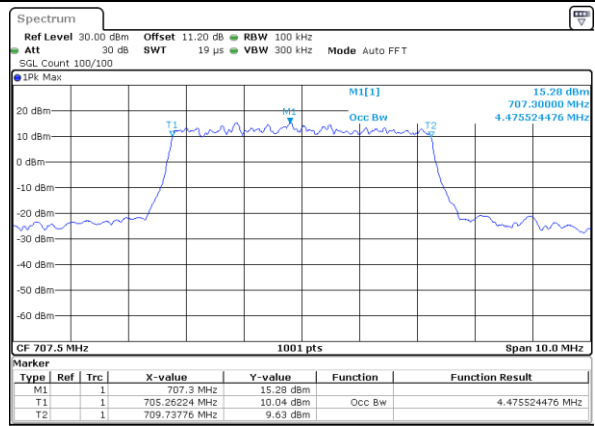
Date: 31.AUG.2022 17:07:57

Middle Channel / 5MHz / QPSK



Date: 31.AUG.2022 17:28:01

Middle Channel / 5MHz / 16QAM

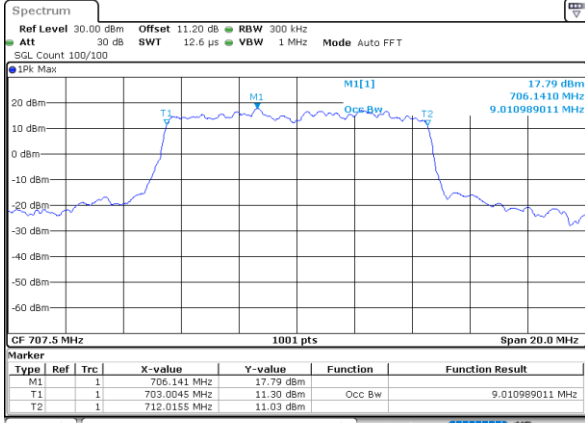


Date: 31.AUG.2022 17:27:32



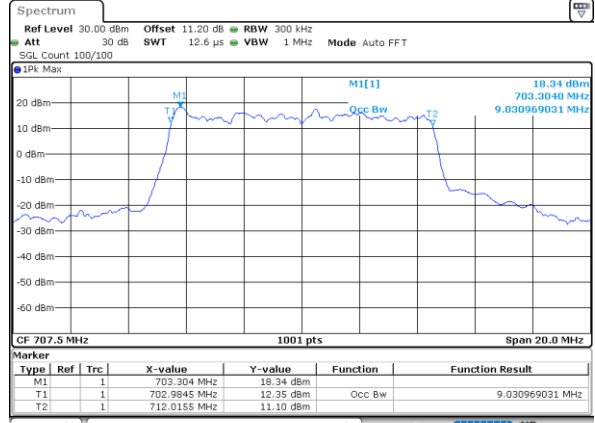
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 31.AUG.2022 17:39:34

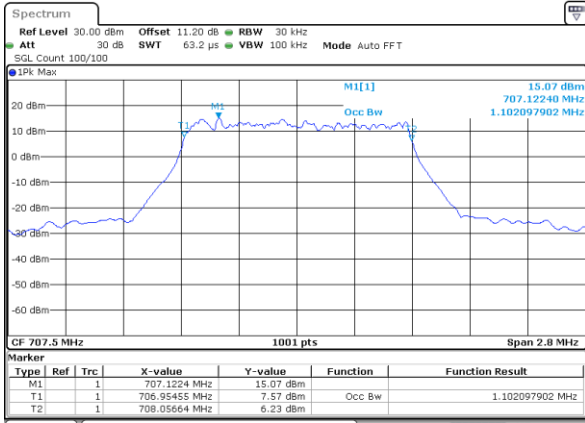
Middle Channel / 10MHz / 16QAM



Date: 31.AUG.2022 17:39:05

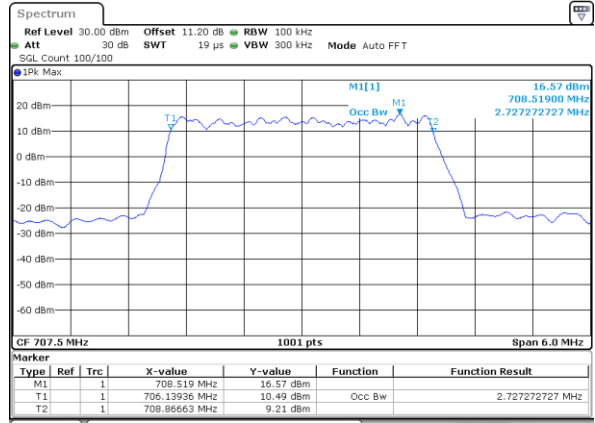
LTE Band 12

Middle Channel / 1.4MHz / 64QAM



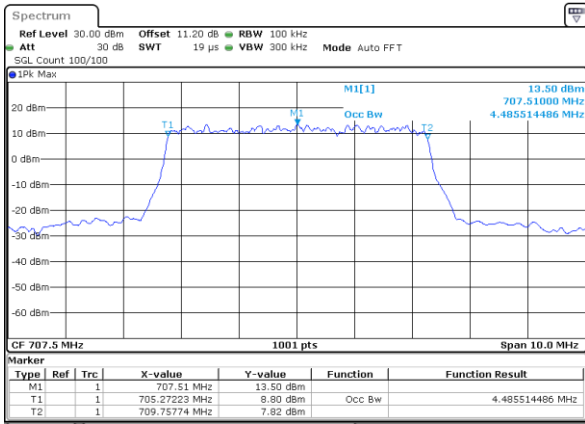
Date: 31.AUG.2022 16:47:24

Middle Channel / 3MHz / 64QAM



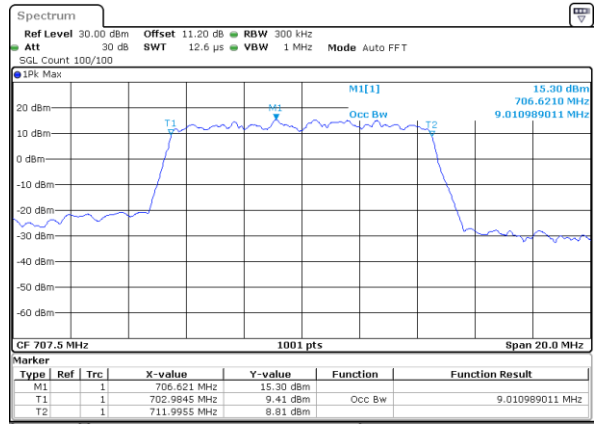
Date: 31.AUG.2022 17:16:53

Middle Channel / 5MHz / 64QAM



Date: 31.AUG.2022 17:20:59

Middle Channel / 10MHz / 64QAM

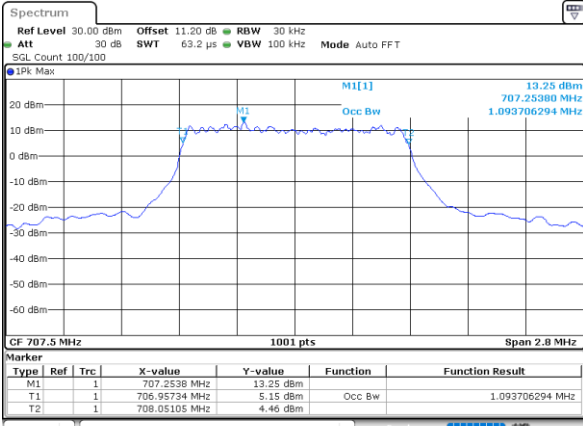


Date: 31.AUG.2022 17:48:01

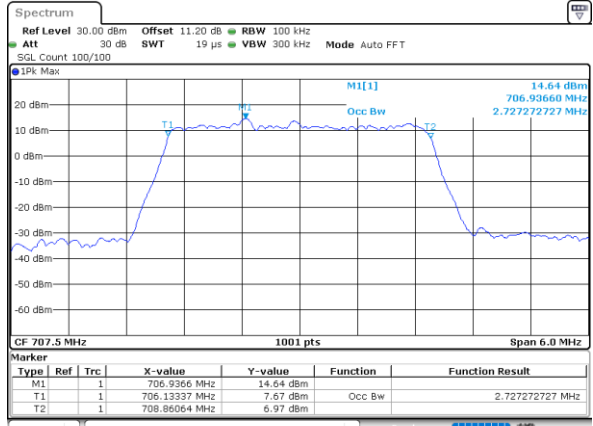


LTE Band 12

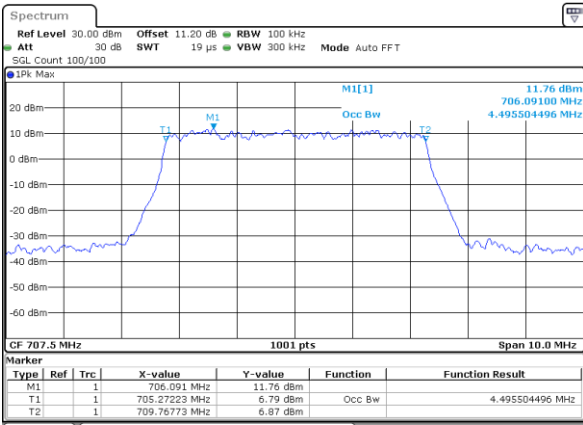
Middle Channel / 1.4MHz / 256QAM



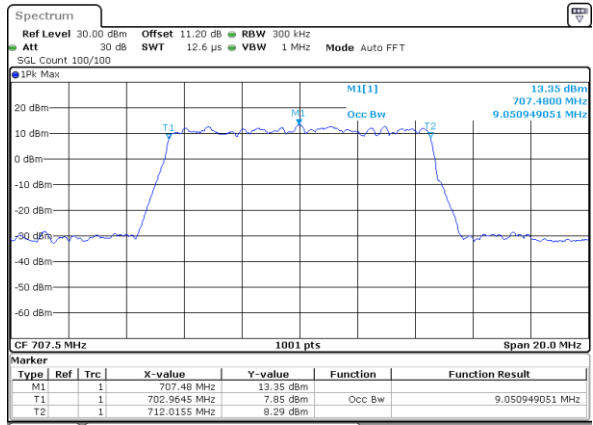
Middle Channel / 3MHz / 256QAM



Middle Channel / 5MHz / 256QAM

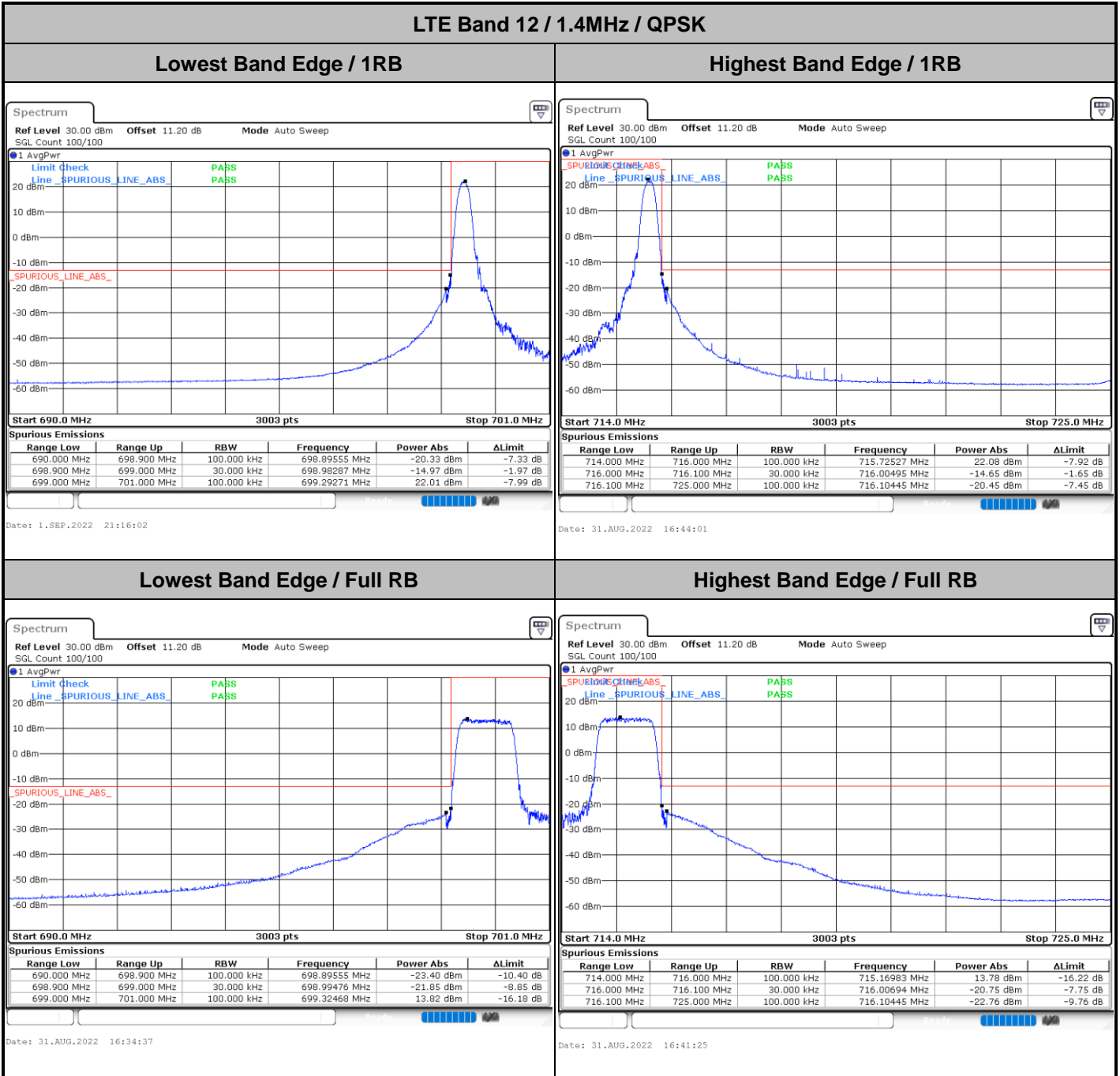


Middle Channel / 10MHz / 256QAM





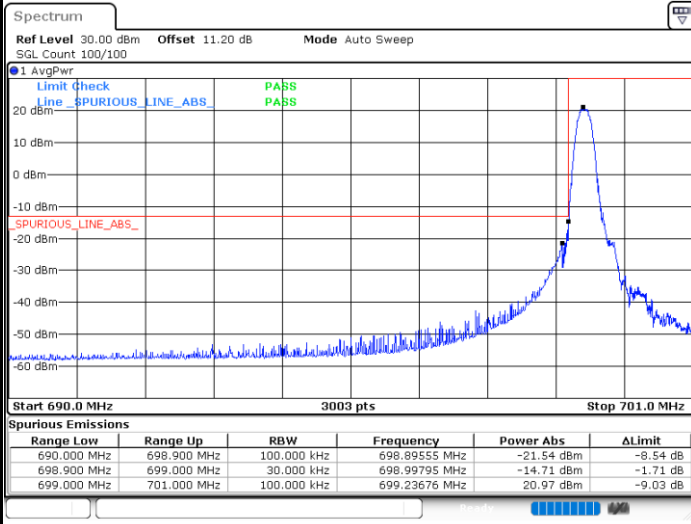
Conducted Band Edge





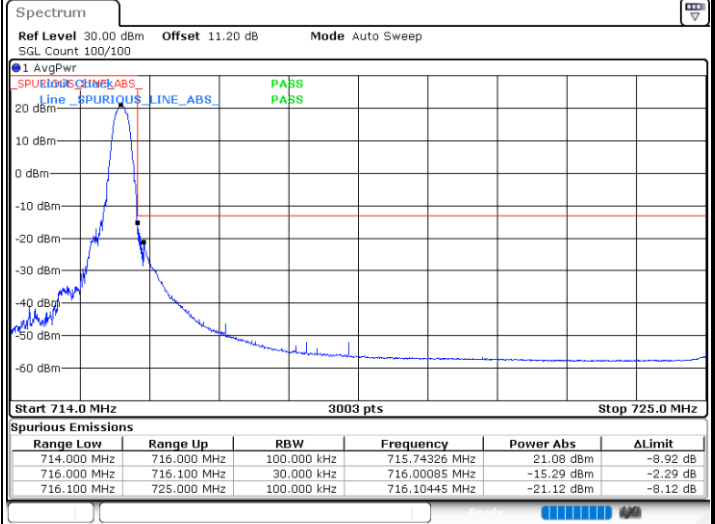
LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



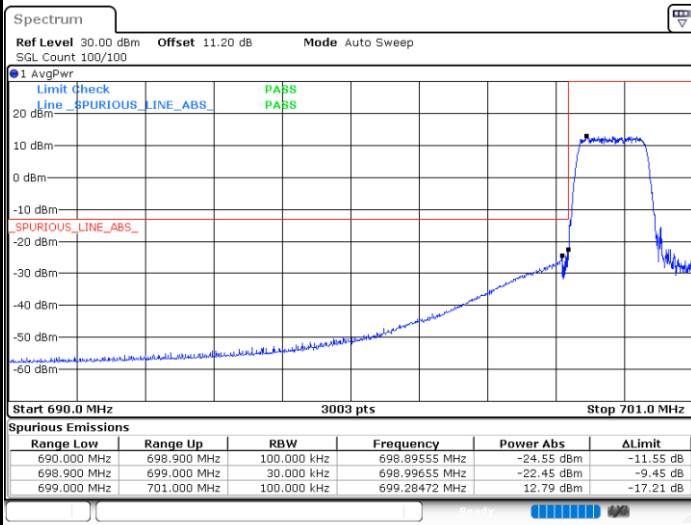
Date: 31.AUG.2022 16:36:02

Highest Band Edge / 1 RB



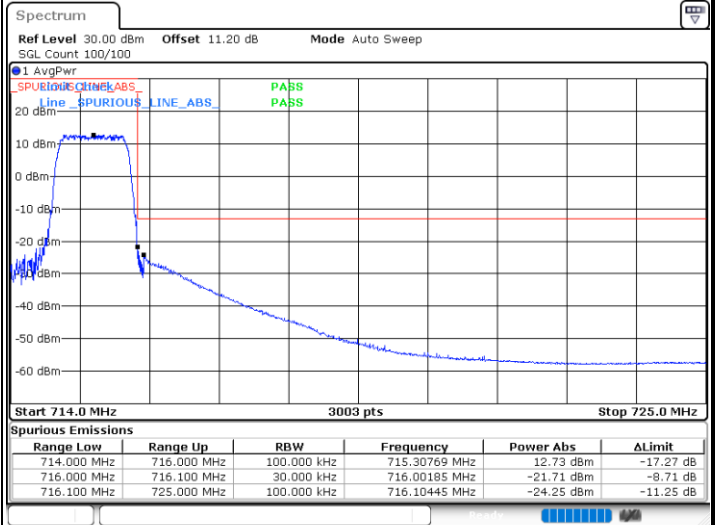
Date: 31.AUG.2022 16:43:07

Lowest Band Edge / Full RB



Date: 31.AUG.2022 16:35:12

Highest Band Edge / Full RB

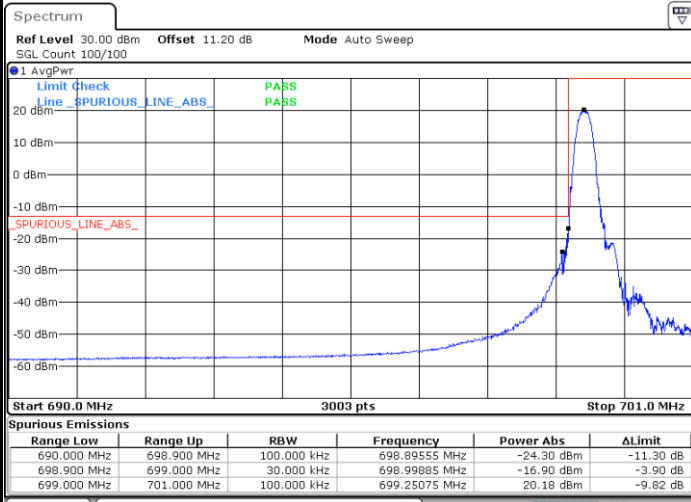


Date: 31.AUG.2022 16:42:14



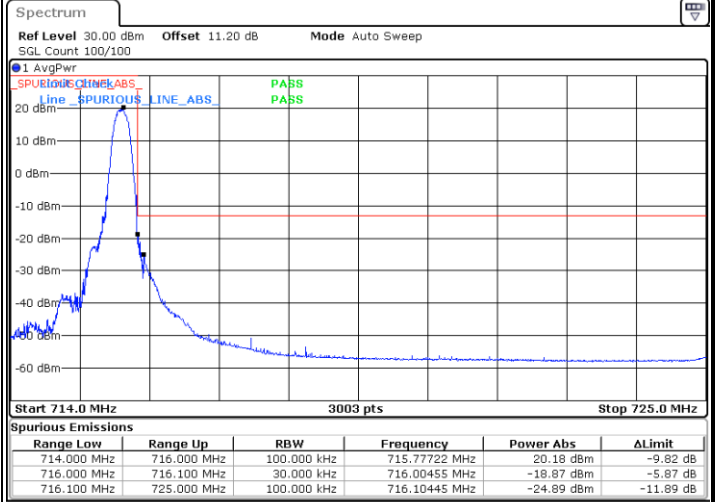
LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



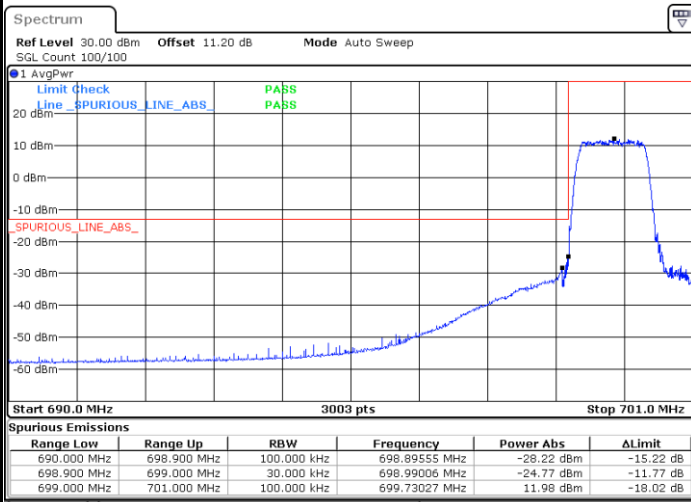
Date: 1.SEP.2022 21:15:10

Highest Band Edge / 1 RB



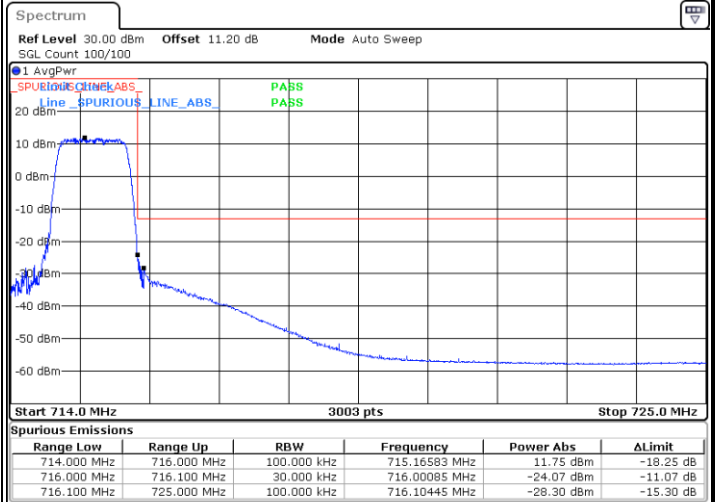
Date: 31.AUG.2022 16:50:15

Lowest Band Edge / Full RB



Date: 31.AUG.2022 16:46:01

Highest Band Edge / Full RB

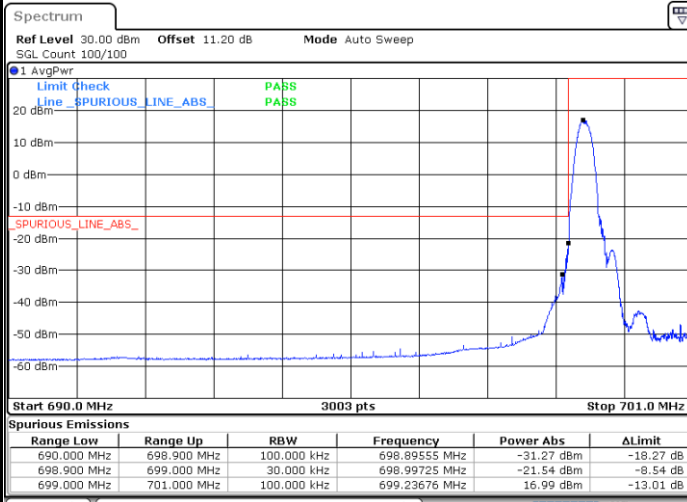


Date: 31.AUG.2022 16:49:26



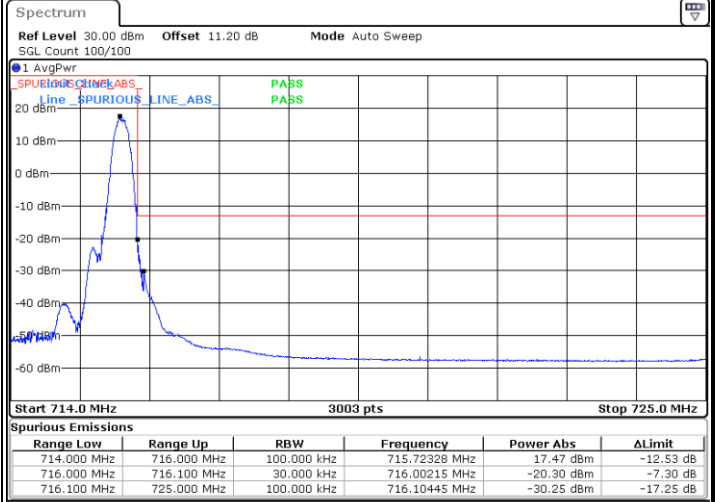
LTE Band 12 / 1.4MHz / 256QAM

Lowest Band Edge / 1 RB



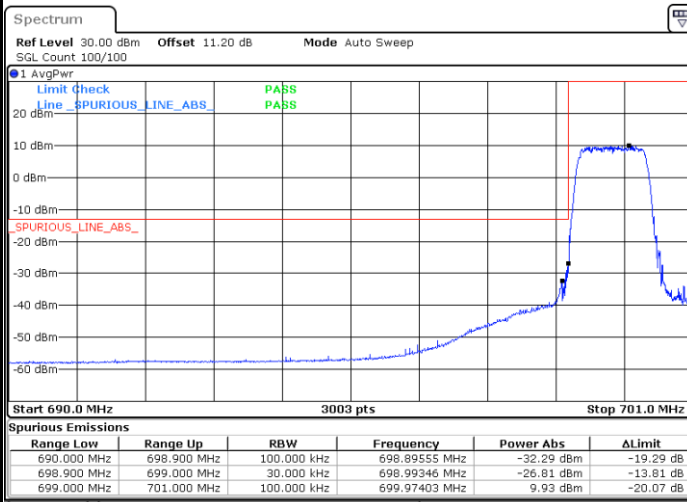
Date: 31.AUG.2022 17:53:12

Highest Band Edge / 1 RB



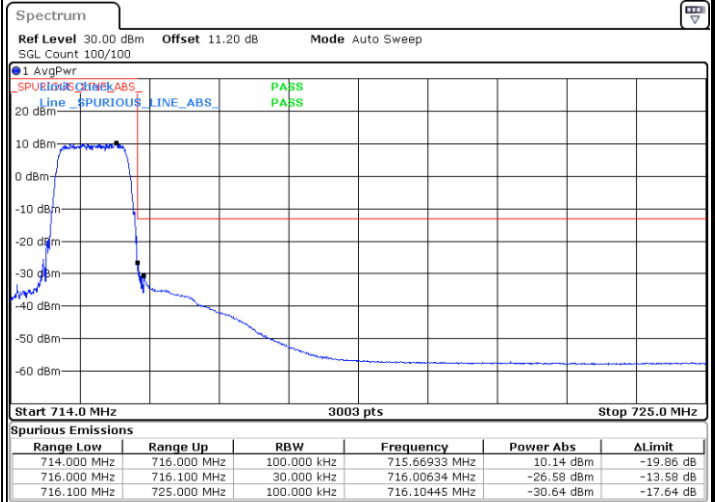
Date: 31.AUG.2022 17:55:36

Lowest Band Edge / Full RB



Date: 31.AUG.2022 17:52:20

Highest Band Edge / Full RB

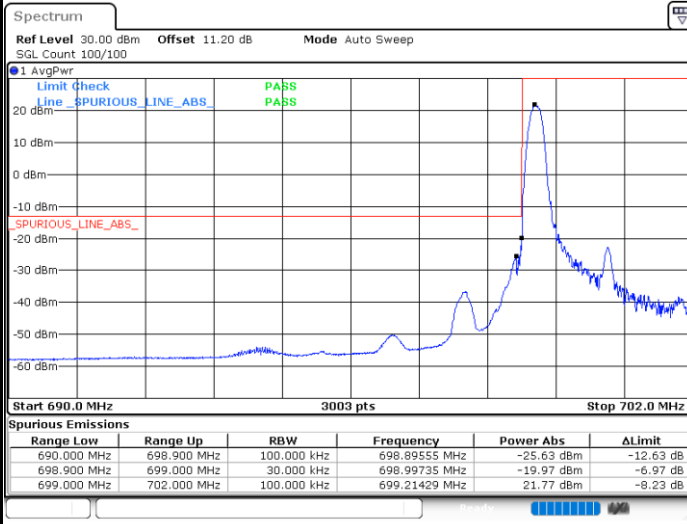


Date: 31.AUG.2022 17:54:44

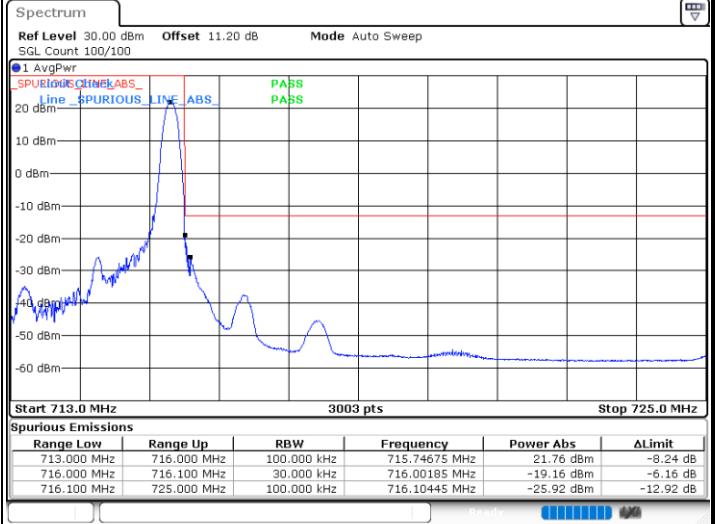


LTE Band 12 / 3MHz / QPSK

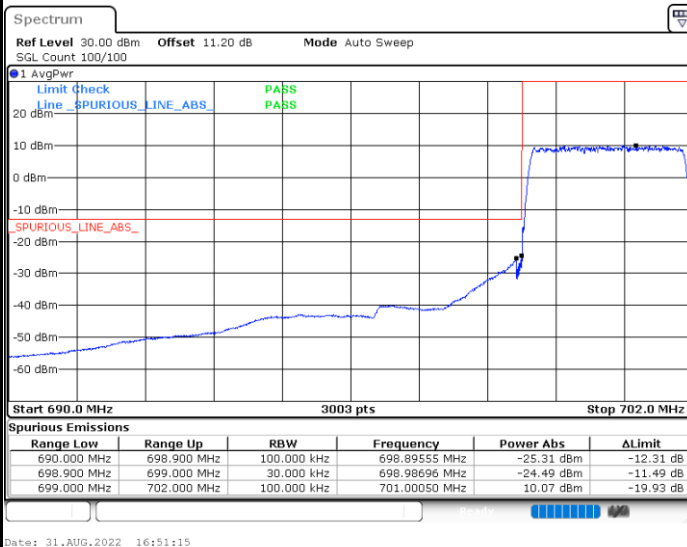
Lowest Band Edge / 1RB



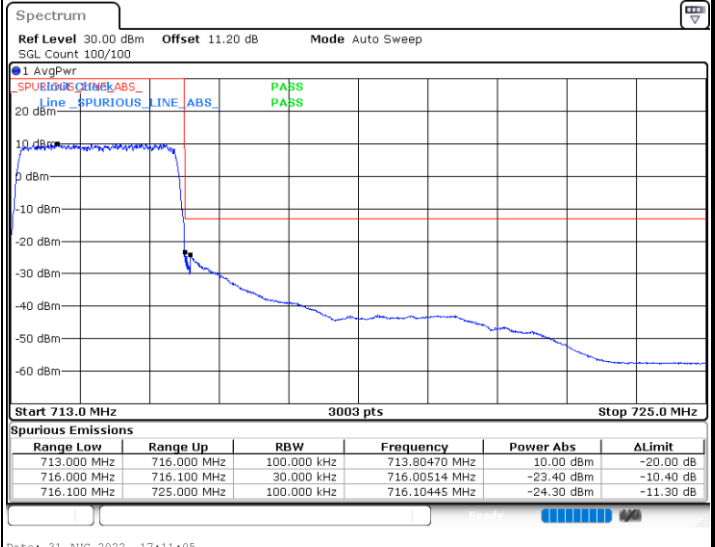
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



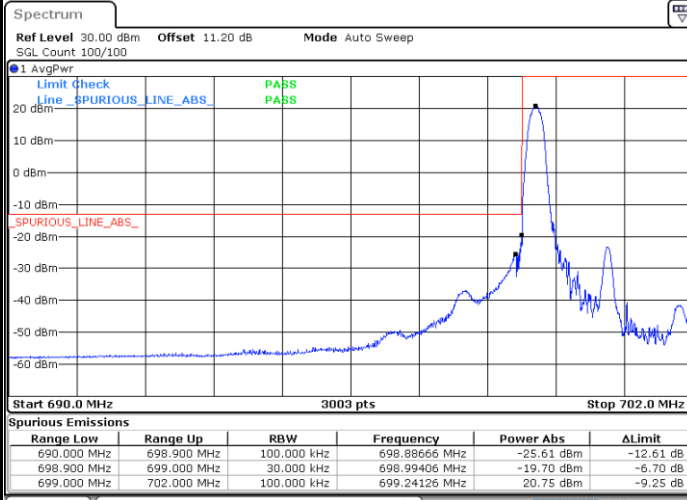
Highest Band Edge / Full RB





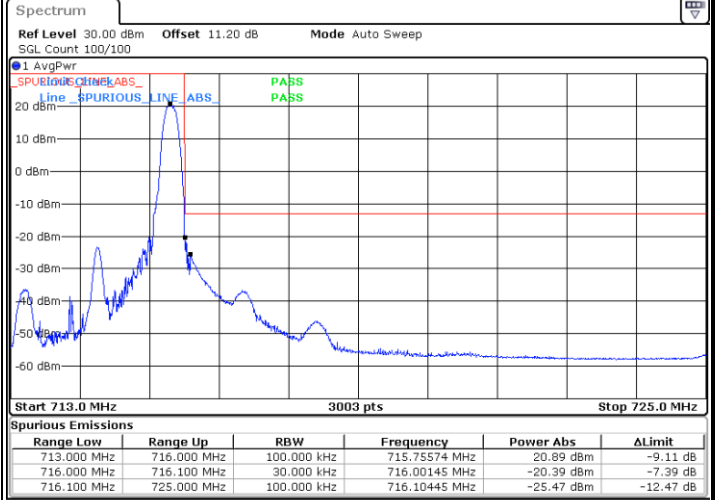
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



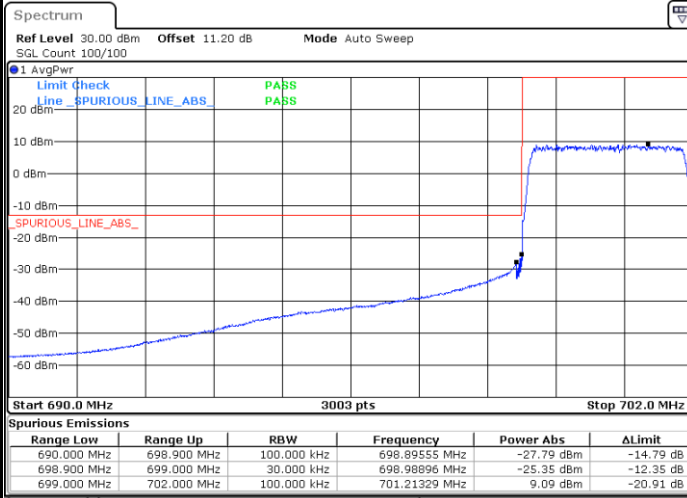
Date: 31.AUG.2022 16:52:59

Highest Band Edge / 1 RB



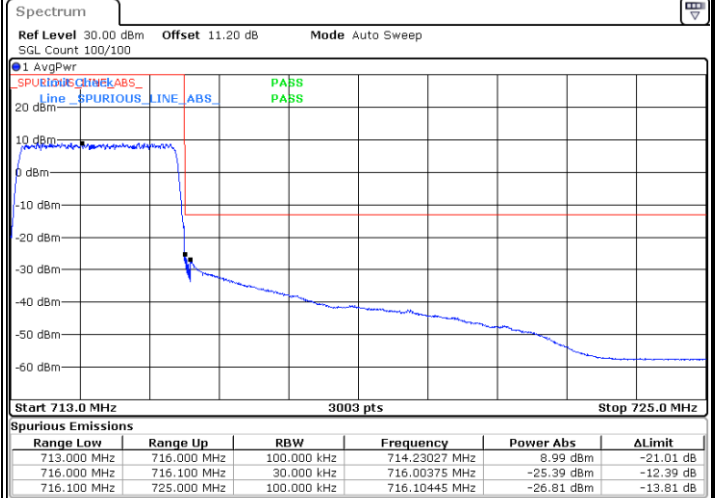
Date: 31.AUG.2022 17:12:44

Lowest Band Edge / Full RB



Date: 31.AUG.2022 16:52:10

Highest Band Edge / Full RB

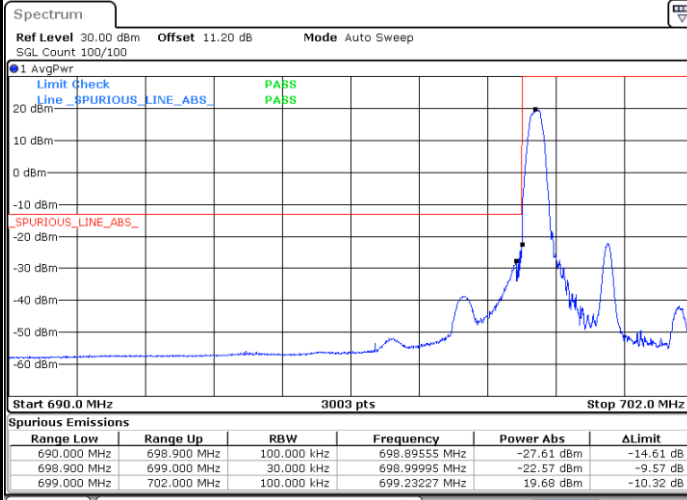


Date: 31.AUG.2022 17:11:55



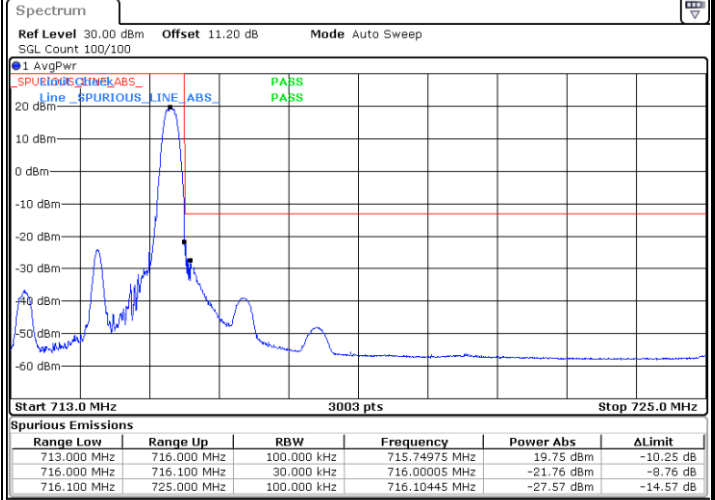
LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



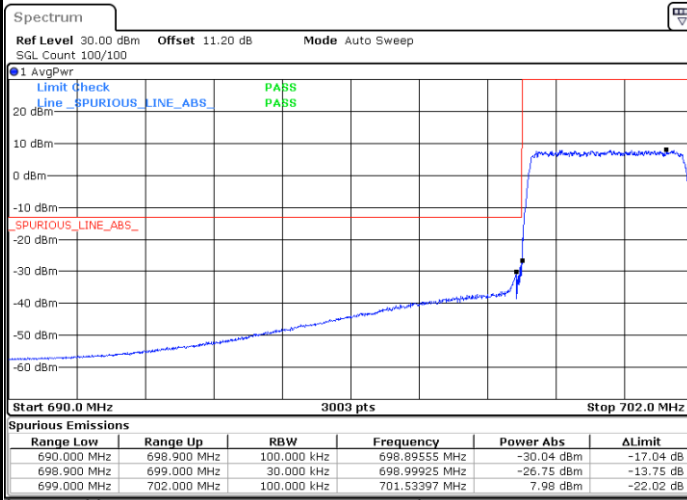
Date: 31.AUG.2022 17:16:24

Highest Band Edge / 1 RB



Date: 31.AUG.2022 17:18:45

Lowest Band Edge / Full RB



Date: 31.AUG.2022 17:15:34

Highest Band Edge / Full RB

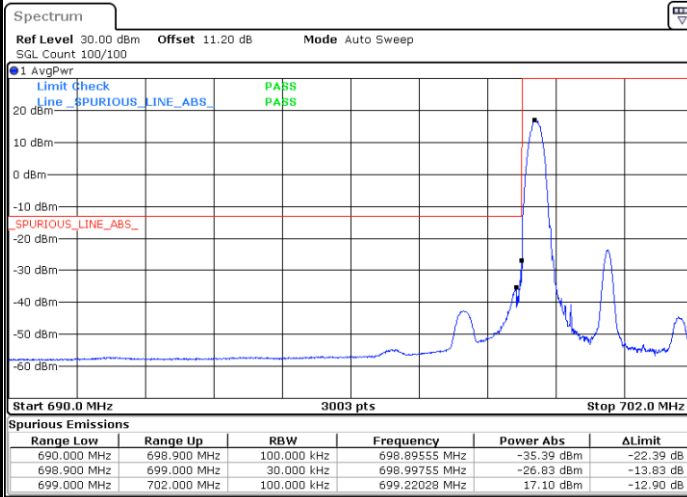


Date: 31.AUG.2022 17:17:56



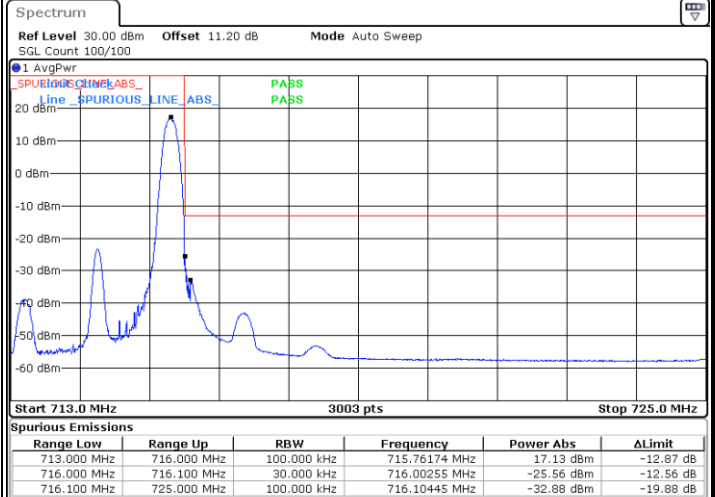
LTE Band 12 / 3MHz / 256QAM

Lowest Band Edge / 1 RB



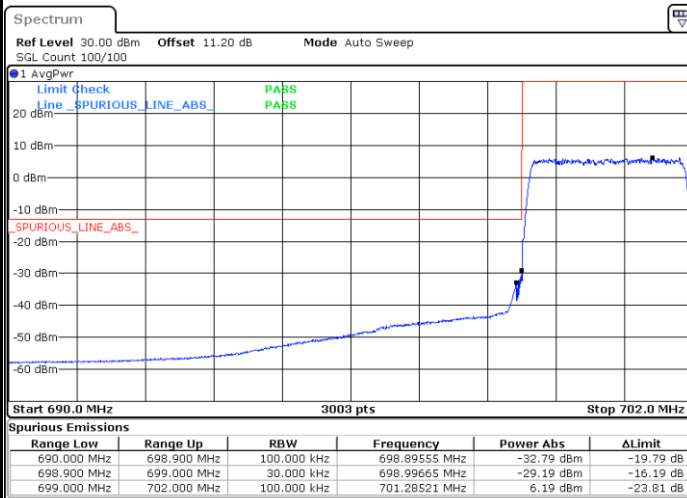
Date: 31.AUG.2022 17:57:23

Highest Band Edge / 1 RB



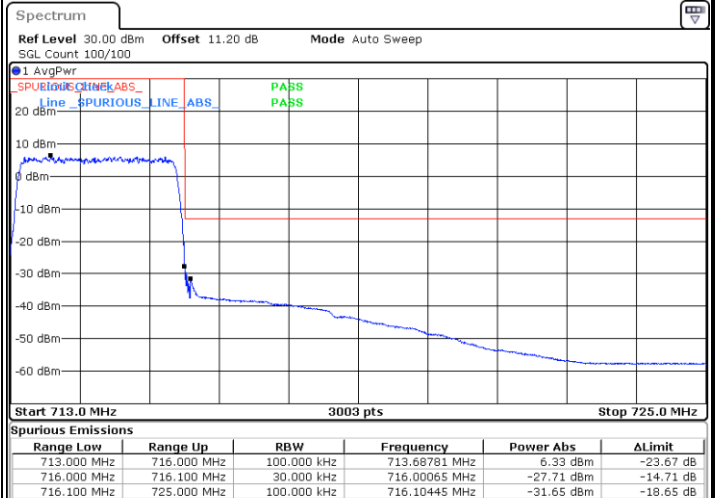
Date: 31.AUG.2022 17:59:48

Lowest Band Edge / Full RB



Date: 31.AUG.2022 17:56:30

Highest Band Edge / Full RB

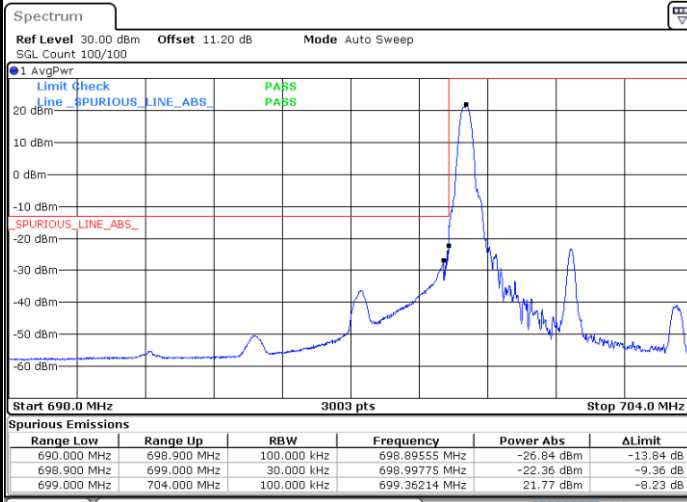


Date: 31.AUG.2022 17:58:55



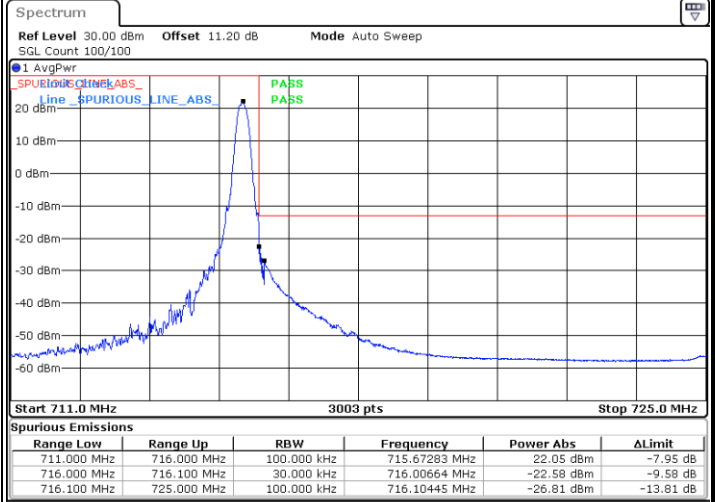
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



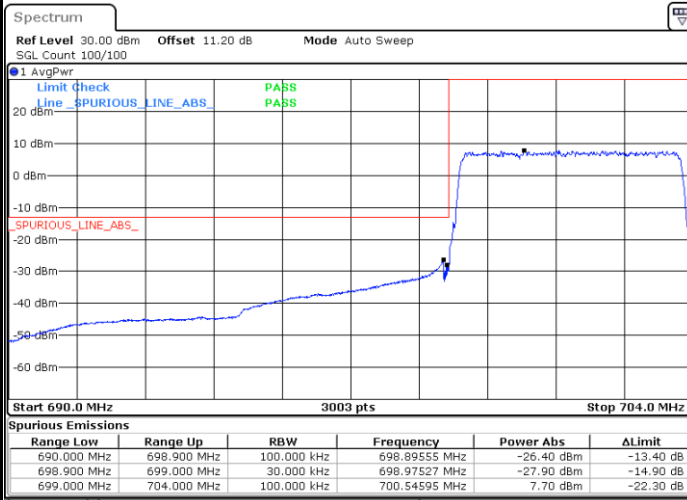
Date: 31.AUG.2022 17:26:09

Highest Band Edge / 1 RB



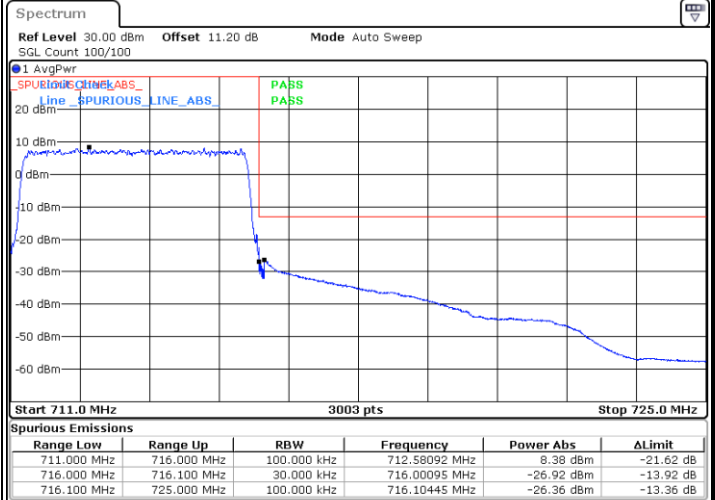
Date: 31.AUG.2022 17:32:19

Lowest Band Edge / Full RB



Date: 31.AUG.2022 17:23:41

Highest Band Edge / Full RB

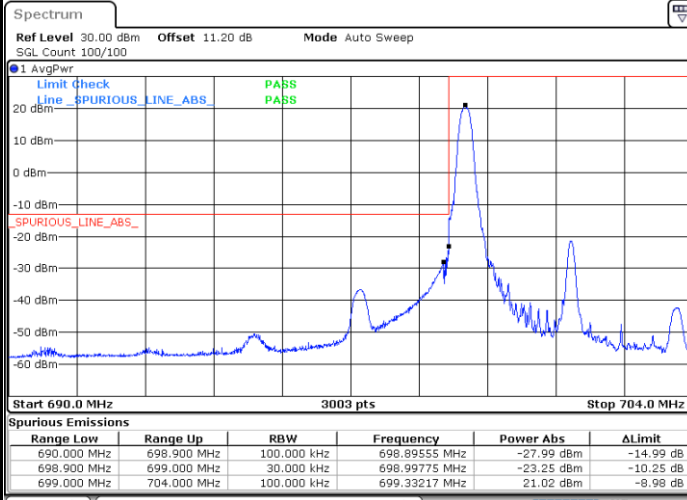


Date: 31.AUG.2022 17:30:40

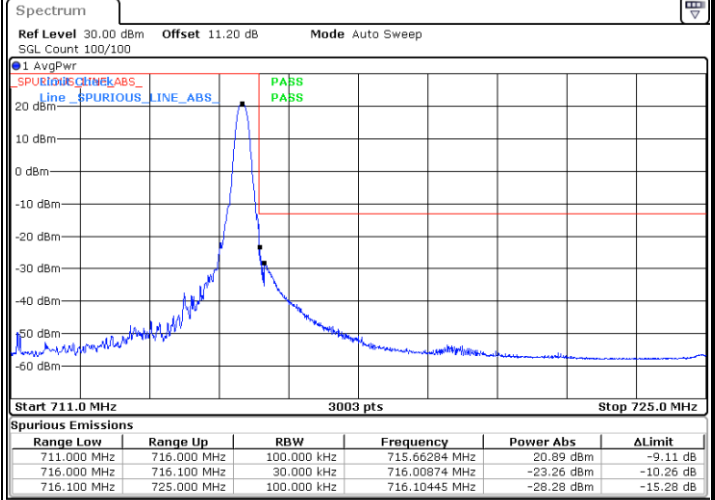


LTE Band 12 / 5MHz / 16QAM

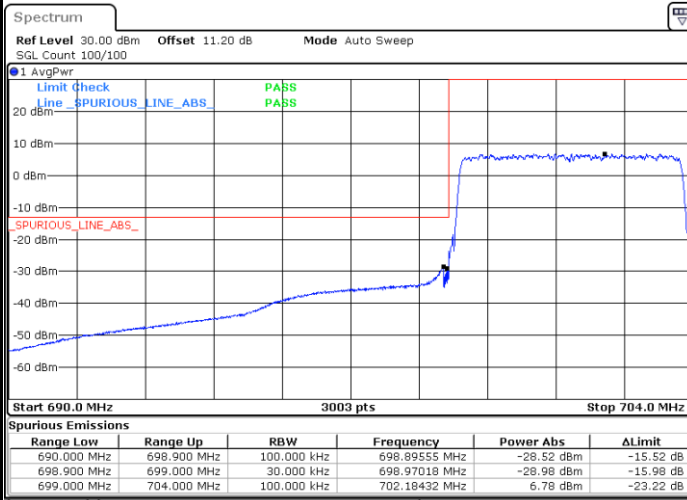
Lowest Band Edge / 1RB



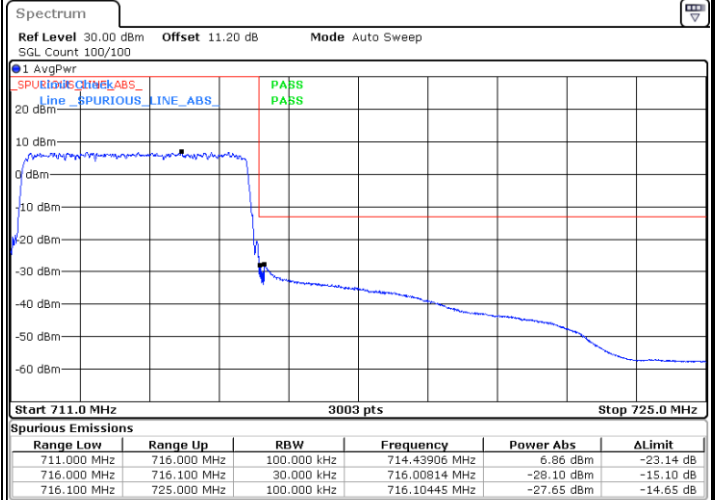
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



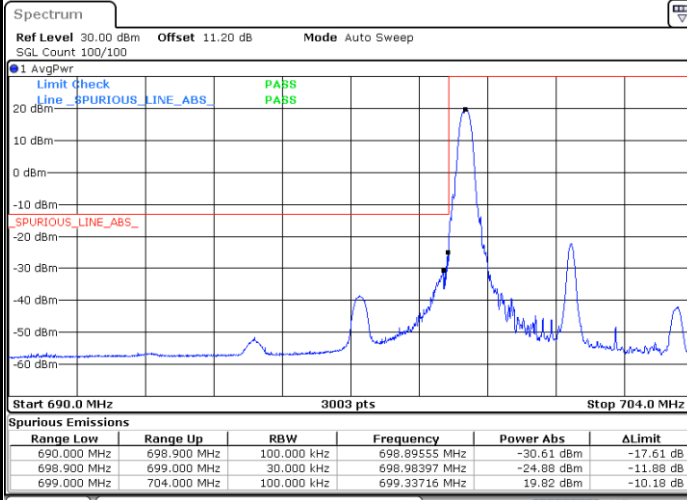
Highest Band Edge / Full RB





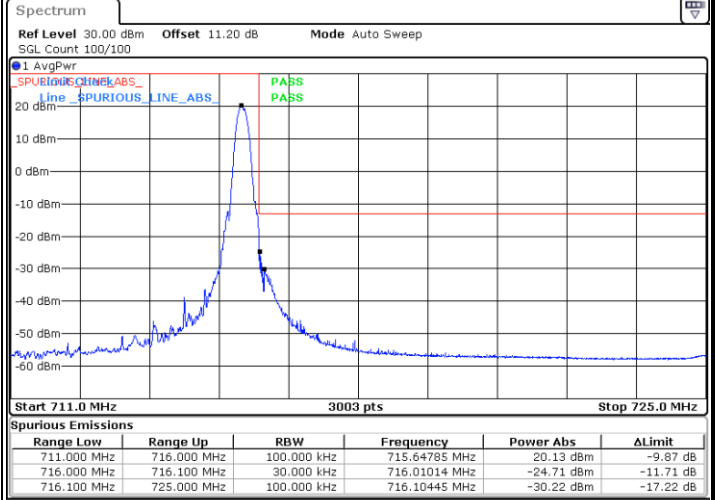
LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1RB



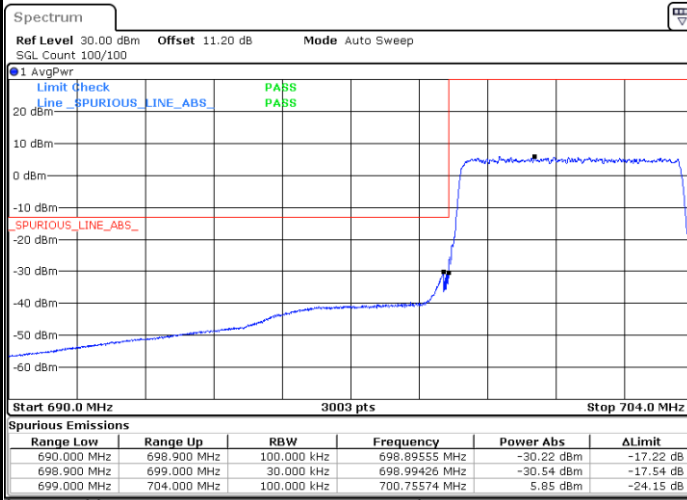
Date: 31.AUG.2022 17:20:29

Highest Band Edge / 1 RB



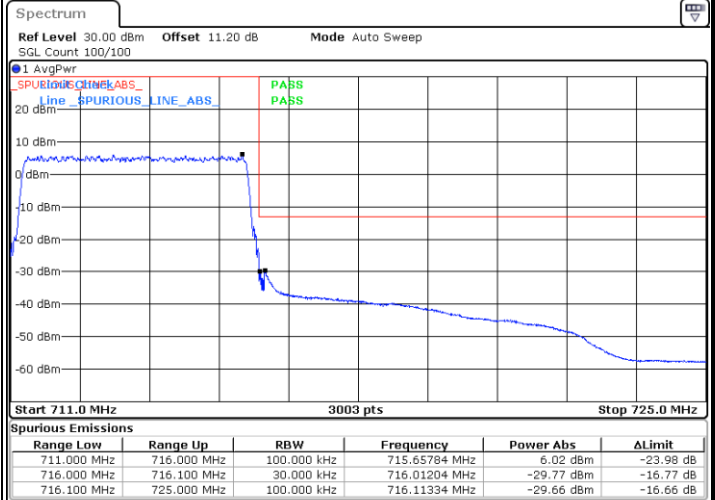
Date: 31.AUG.2022 17:22:51

Lowest Band Edge / Full RB



Date: 31.AUG.2022 17:19:40

Highest Band Edge / Full RB

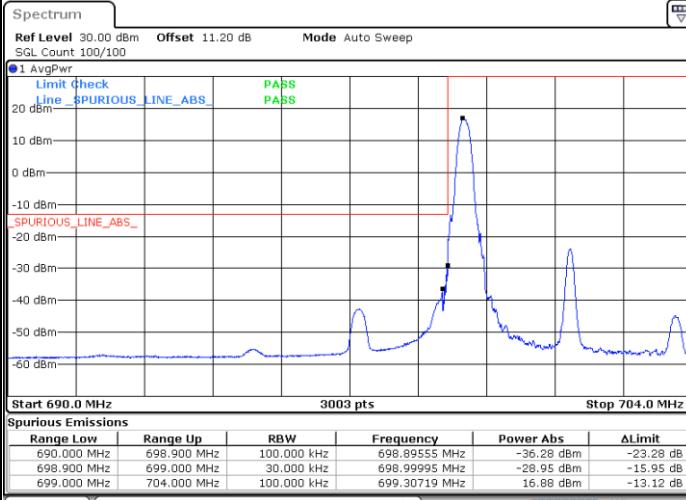


Date: 31.AUG.2022 17:22:01



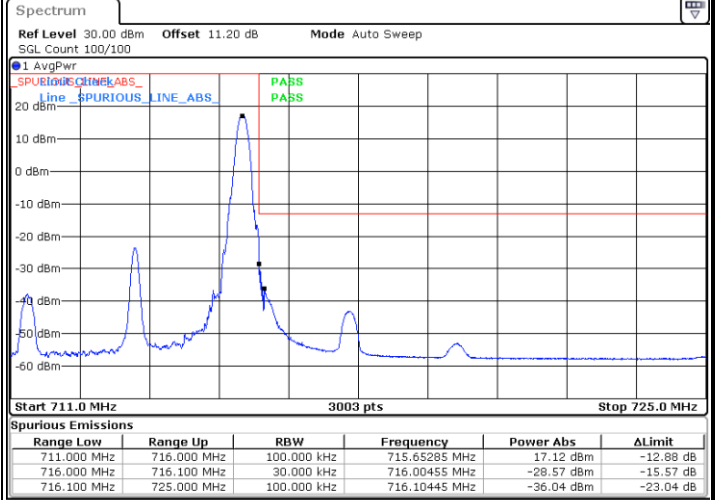
LTE Band 12 / 5MHz / 256QAM

Lowest Band Edge / 1RB



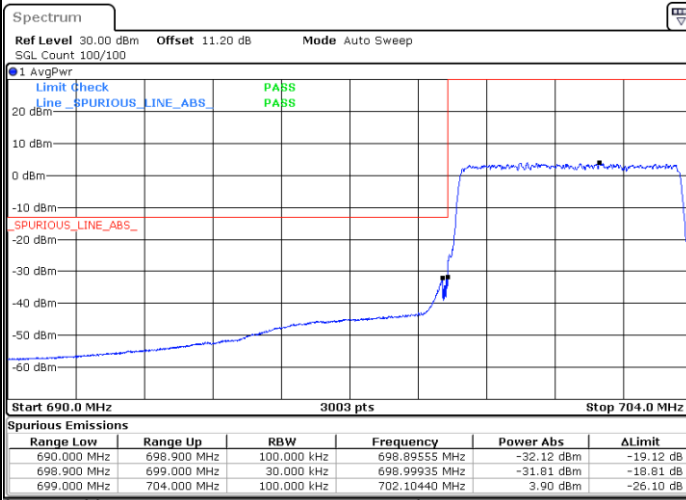
Date: 31.AUG.2022 18:01:34

Highest Band Edge / 1 RB



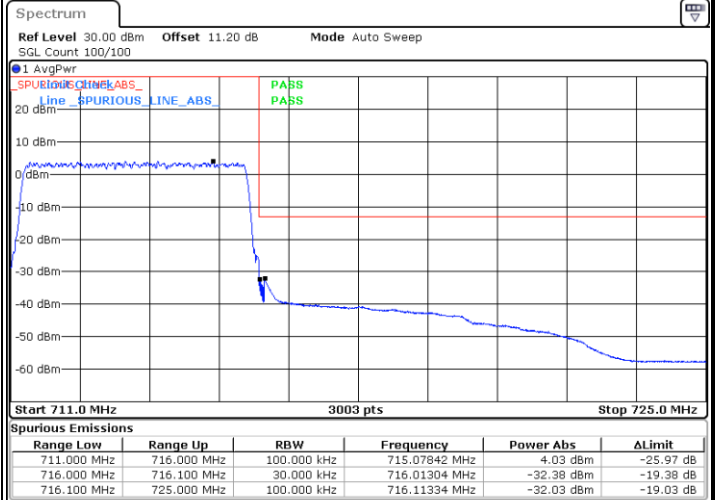
Date: 31.AUG.2022 18:03:58

Lowest Band Edge / Full RB



Date: 31.AUG.2022 18:00:42

Highest Band Edge / Full RB



Date: 31.AUG.2022 18:03:06