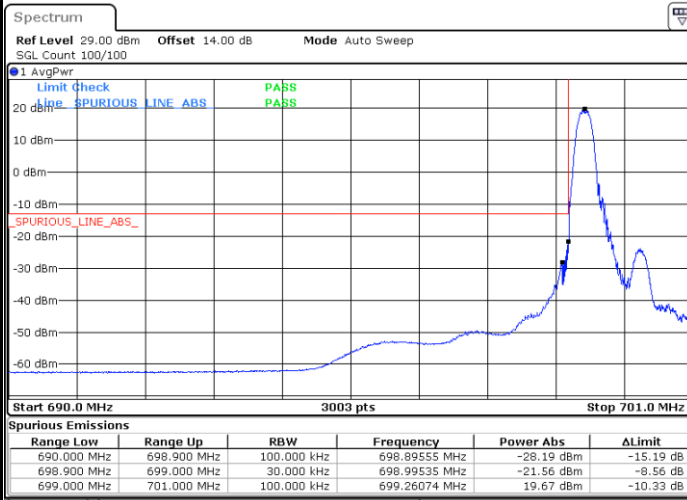




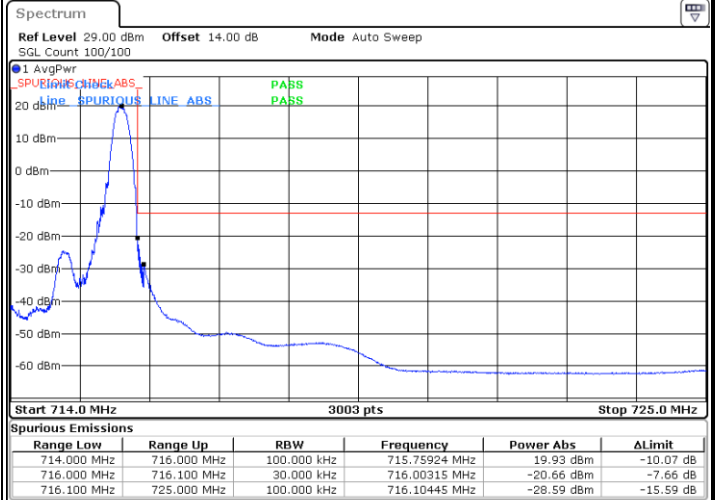
LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



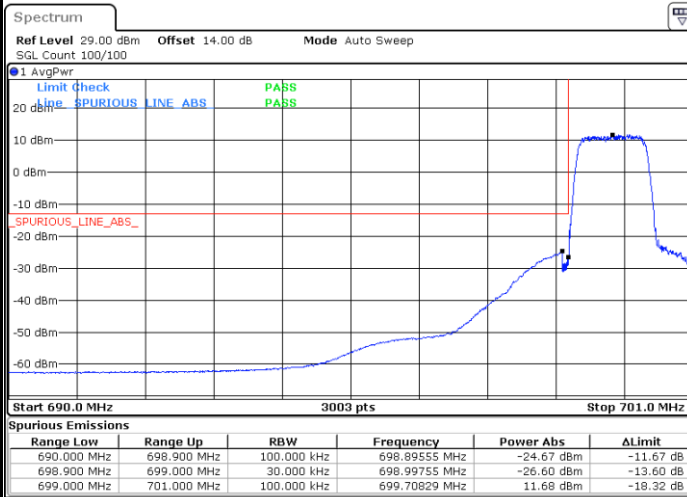
Date: 12.AUG.2021 12:03:19

Highest Band Edge / 1 RB



Date: 12.AUG.2021 12:11:19

Lowest Band Edge / Full RB



Date: 12.AUG.2021 12:01:20

Highest Band Edge / Full RB

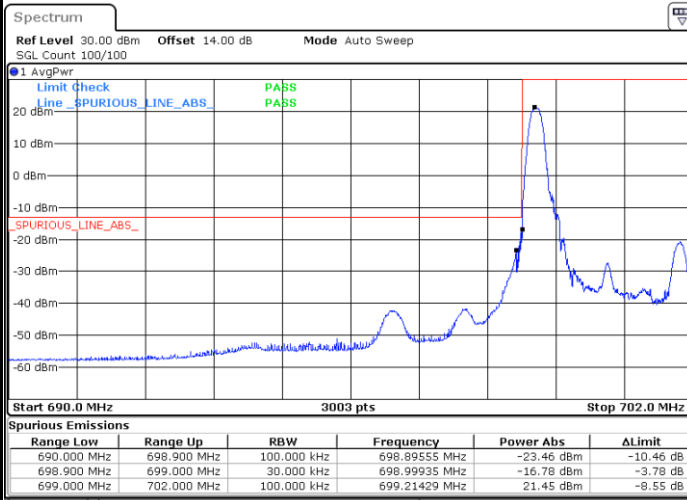


Date: 12.AUG.2021 12:09:20



LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



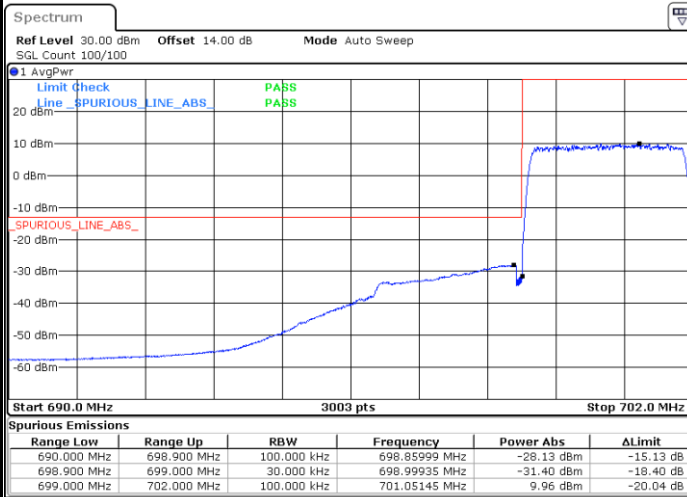
Date: 12.AUG.2021 12:21:39

Highest Band Edge / 1 RB



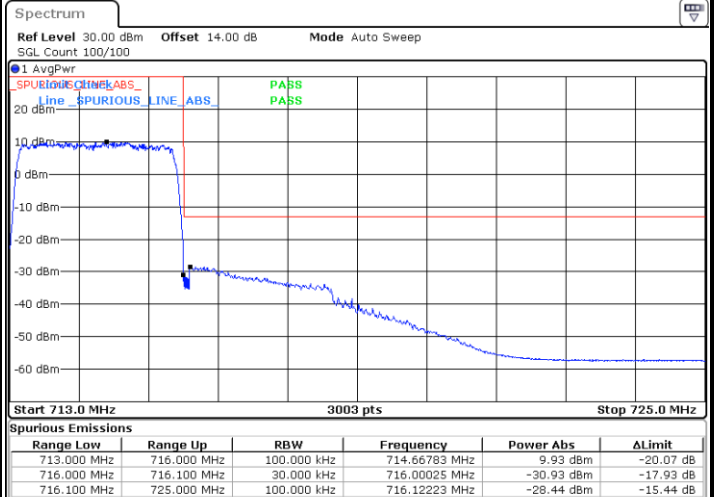
Date: 12.AUG.2021 12:37:41

Lowest Band Edge / Full RB



Date: 12.AUG.2021 12:15:42

Highest Band Edge / Full RB

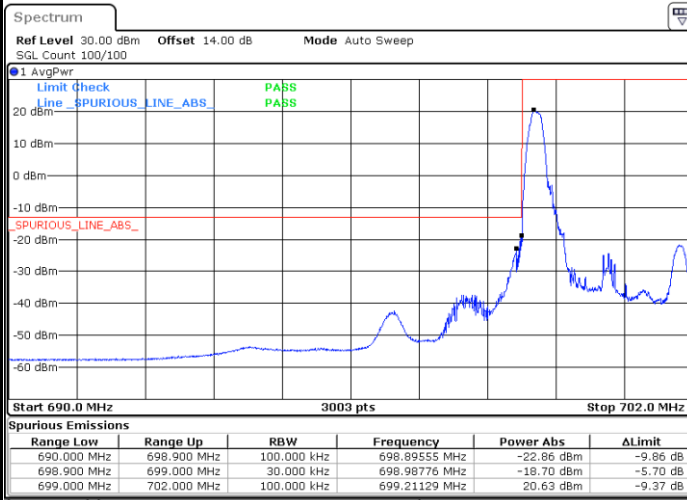


Date: 12.AUG.2021 12:31:44



LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



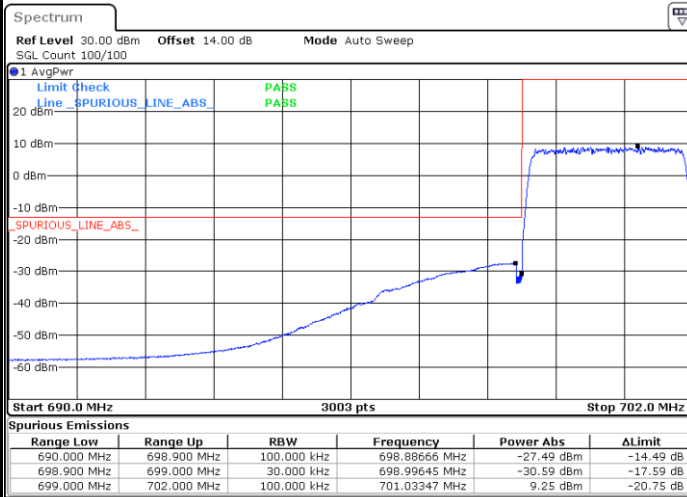
Date: 12.AUG.2021 12:19:40

Highest Band Edge / 1 RB



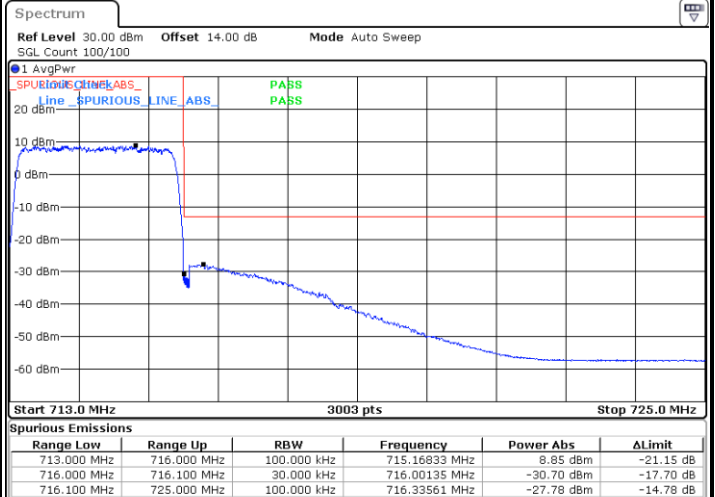
Date: 12.AUG.2021 12:35:42

Lowest Band Edge / Full RB



Date: 12.AUG.2021 12:17:41

Highest Band Edge / Full RB

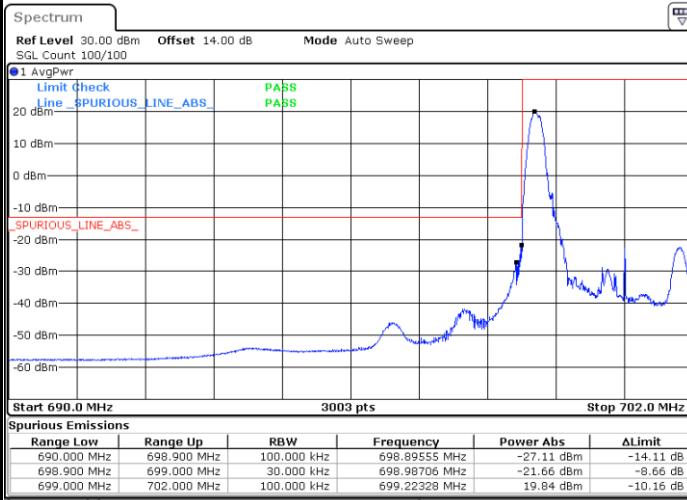


Date: 12.AUG.2021 12:33:43



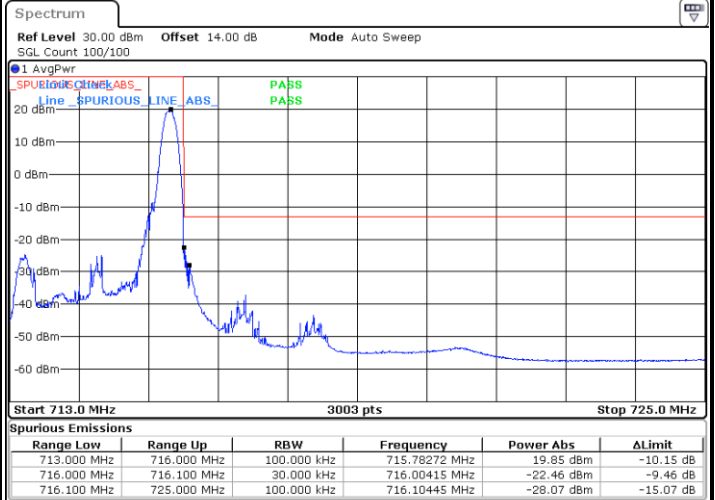
LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



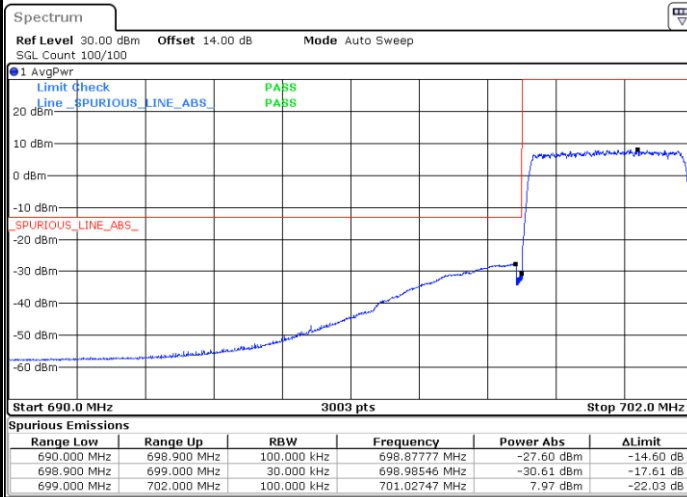
Date: 12.AUG.2021 12:45:19

Highest Band Edge / 1 RB



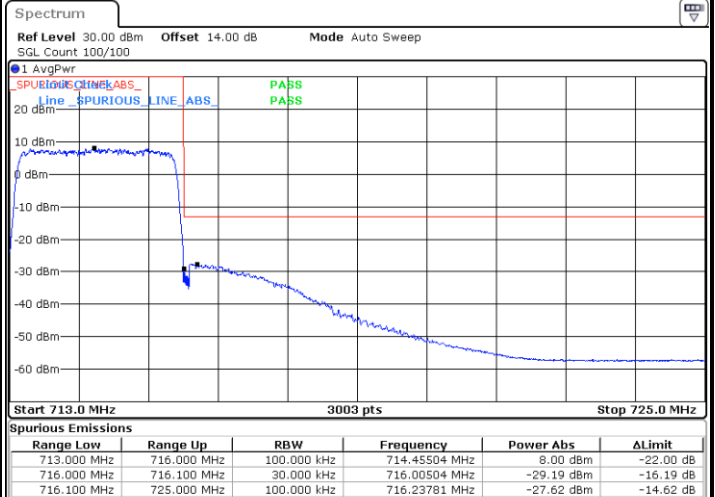
Date: 12.AUG.2021 12:53:20

Lowest Band Edge / Full RB



Date: 12.AUG.2021 12:43:20

Highest Band Edge / Full RB



Date: 12.AUG.2021 12:51:21



LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



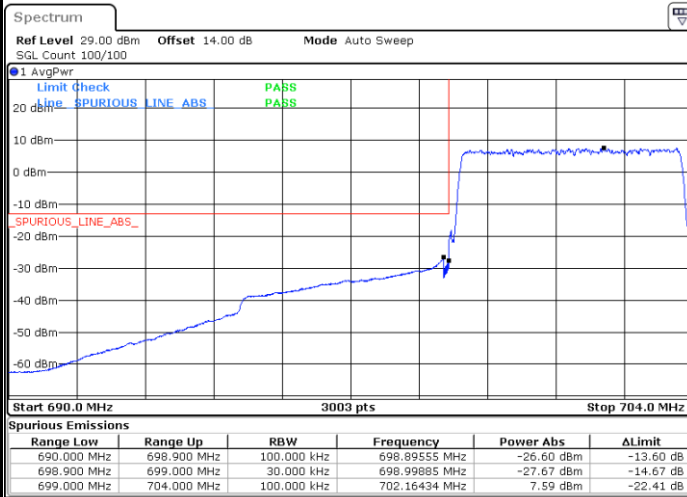
Date: 12.AUG.2021 13:17:39

Highest Band Edge / 1 RB



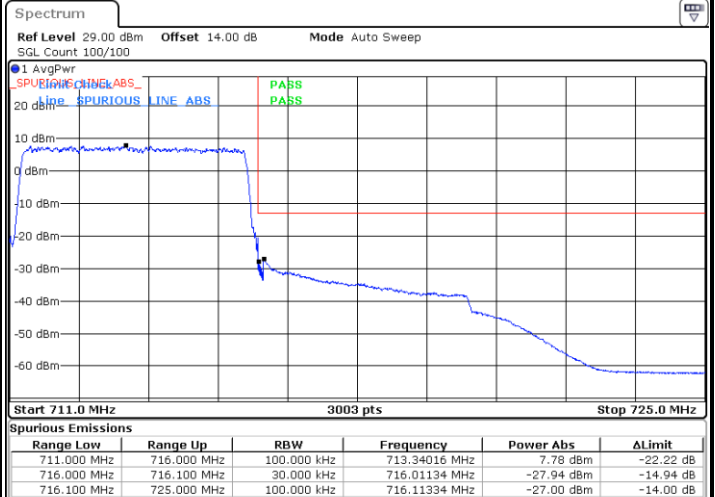
Date: 12.AUG.2021 13:31:41

Lowest Band Edge / Full RB



Date: 12.AUG.2021 13:11:42

Highest Band Edge / Full RB

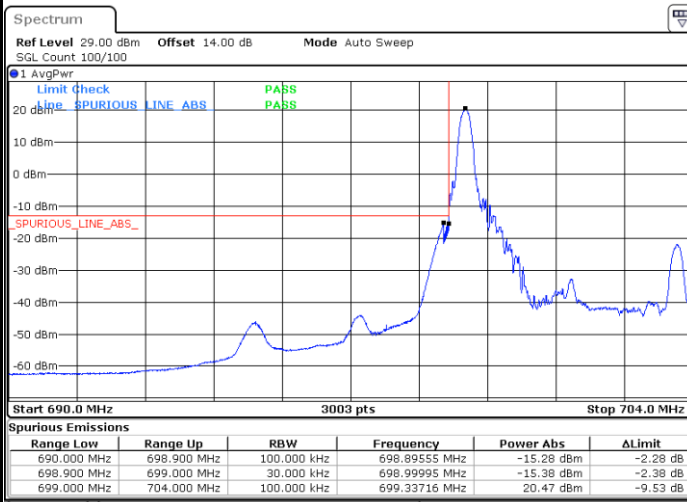


Date: 12.AUG.2021 13:27:43



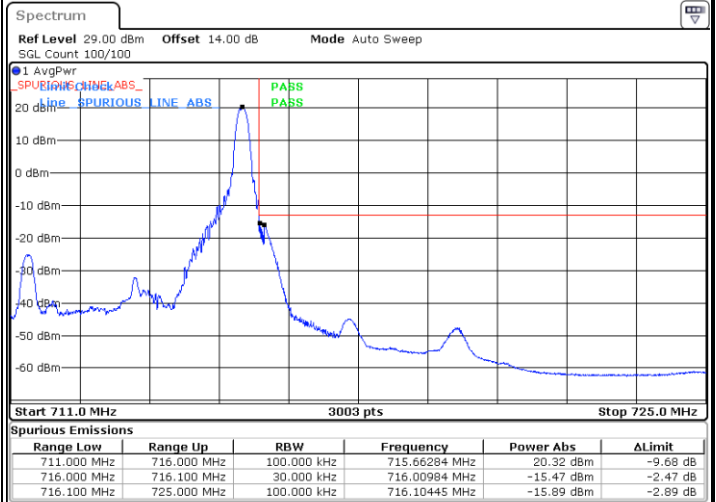
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



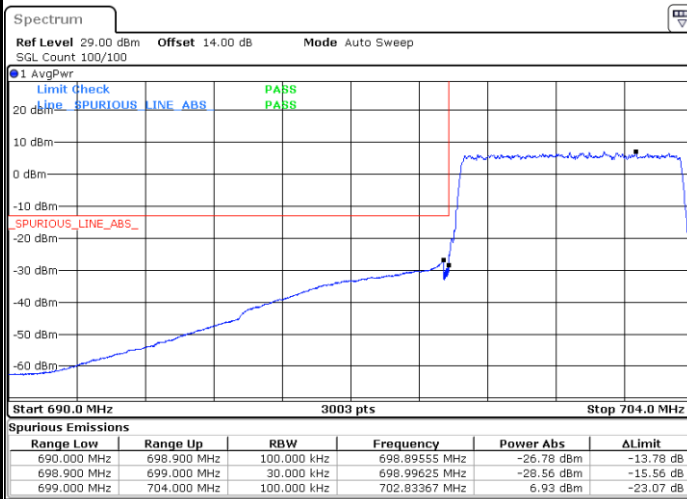
Date: 12.AUG.2021 13:15:40

Highest Band Edge / 1 RB



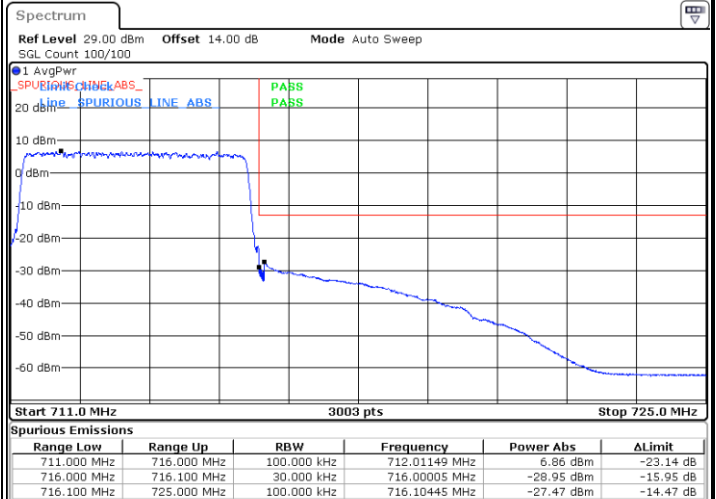
Date: 12.AUG.2021 13:33:40

Lowest Band Edge / Full RB



Date: 12.AUG.2021 13:13:41

Highest Band Edge / Full RB



Date: 12.AUG.2021 13:29:42



LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1RB



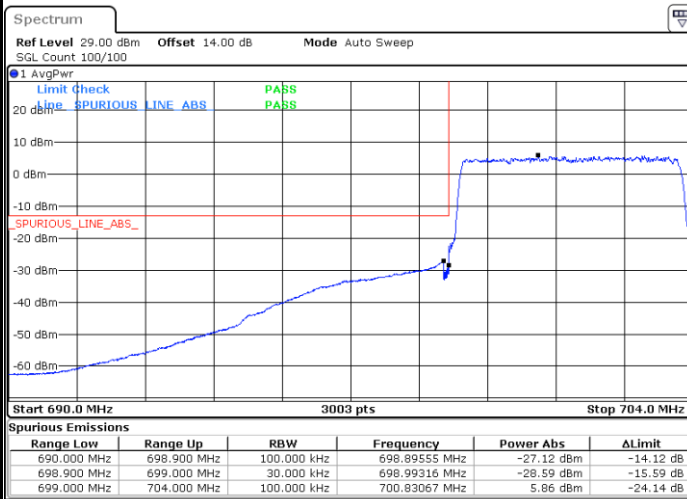
Date: 12.AUG.2021 12:59:19

Highest Band Edge / 1 RB



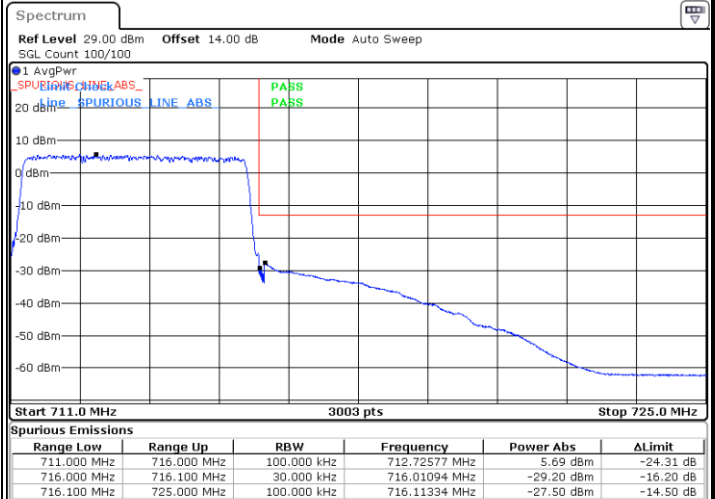
Date: 12.AUG.2021 13:07:20

Lowest Band Edge / Full RB



Date: 12.AUG.2021 12:57:20

Highest Band Edge / Full RB

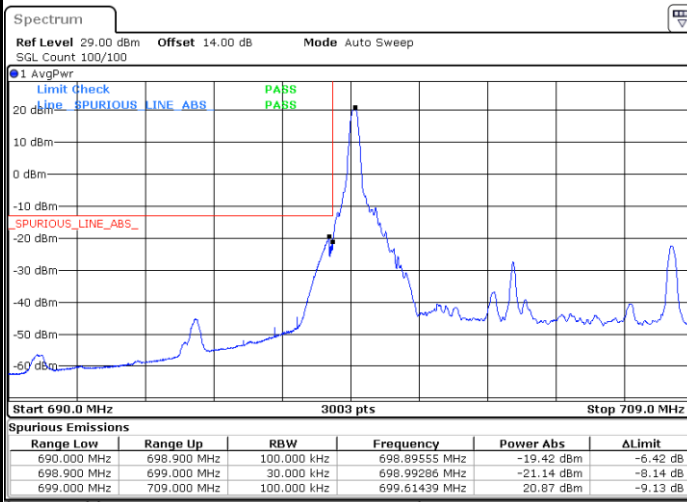


Date: 12.AUG.2021 13:05:21



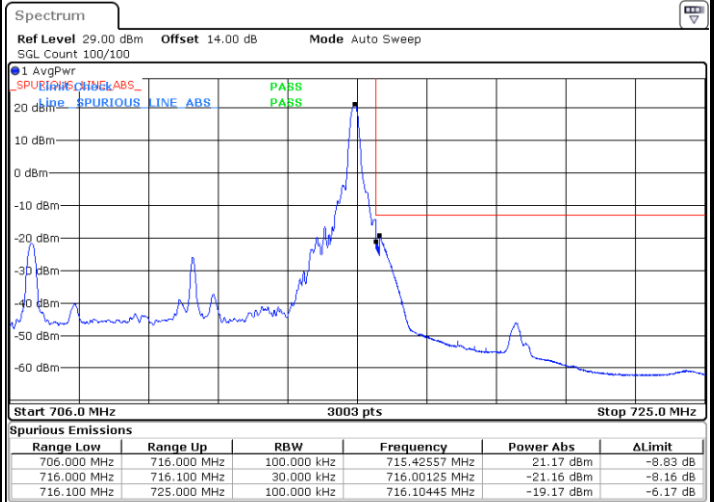
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



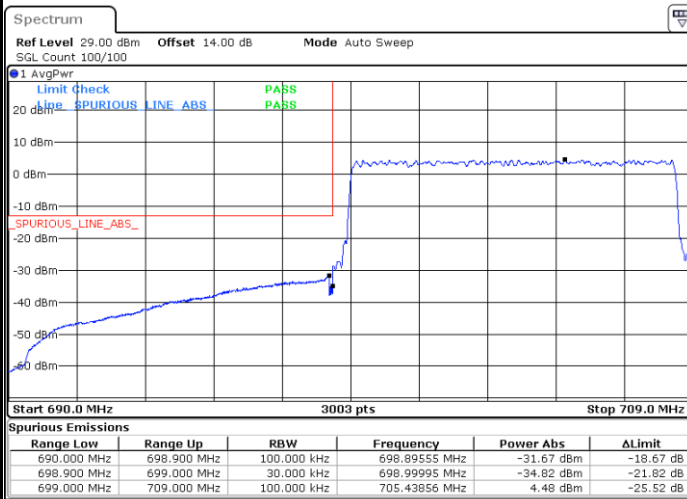
Date: 12.AUG.2021 13:45:39

Highest Band Edge / 1 RB



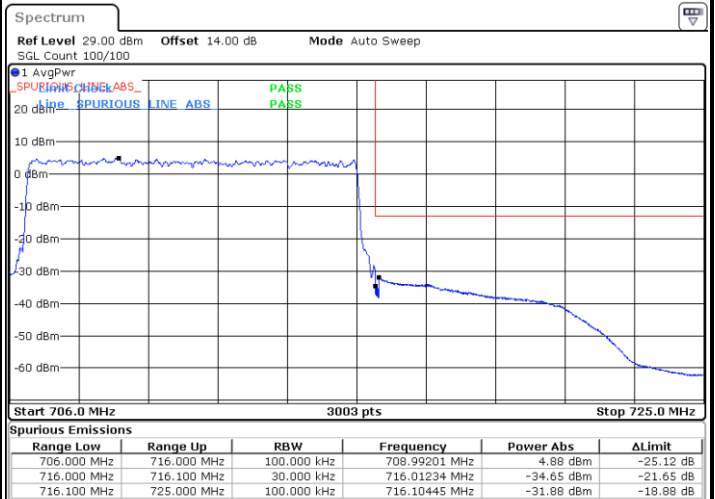
Date: 12.AUG.2021 14:03:22

Lowest Band Edge / Full RB



Date: 12.AUG.2021 13:39:42

Highest Band Edge / Full RB

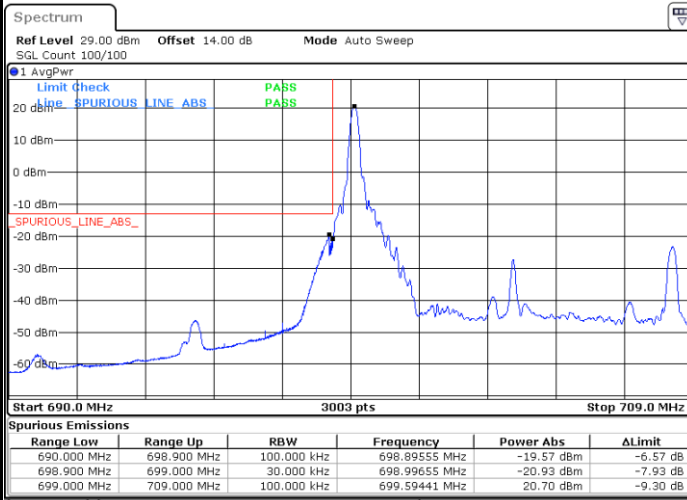


Date: 12.AUG.2021 13:56:59



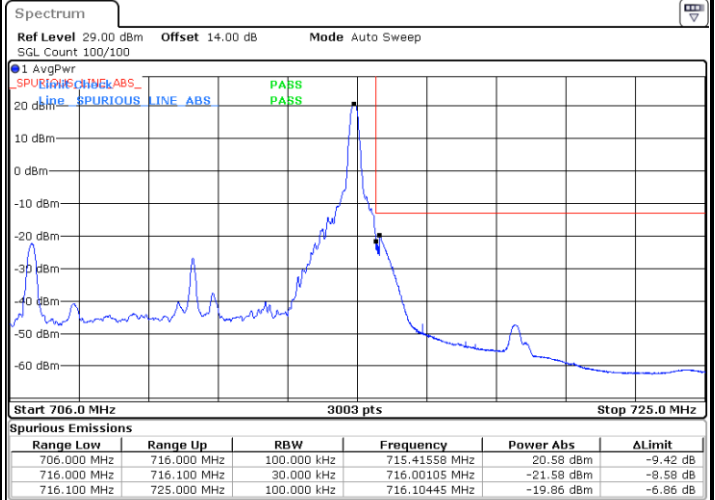
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



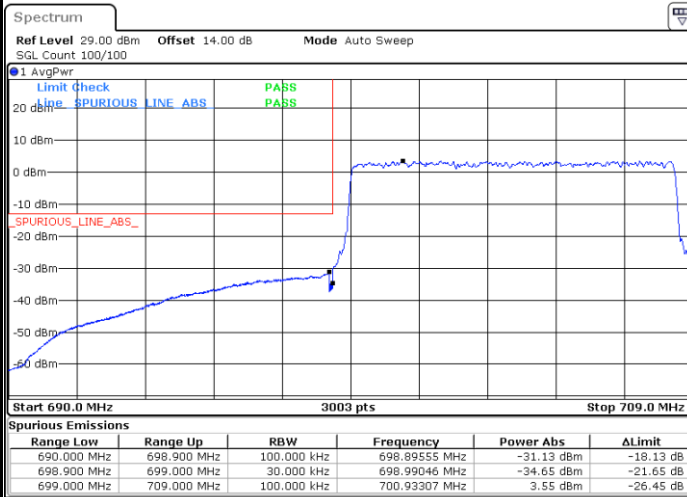
Date: 12.AUG.2021 13:43:40

Highest Band Edge / 1 RB



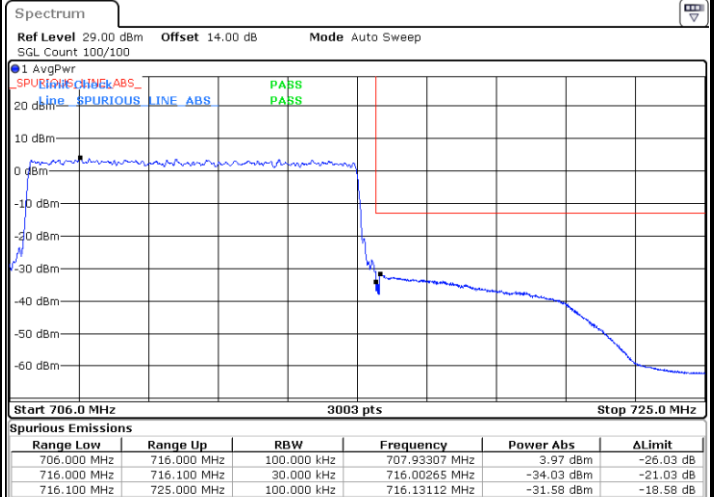
Date: 12.AUG.2021 14:01:20

Lowest Band Edge / Full RB



Date: 12.AUG.2021 13:41:41

Highest Band Edge / Full RB

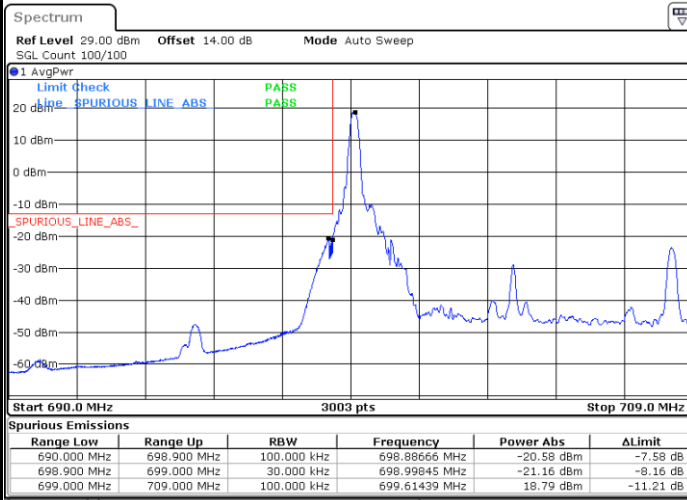


Date: 12.AUG.2021 13:59:15



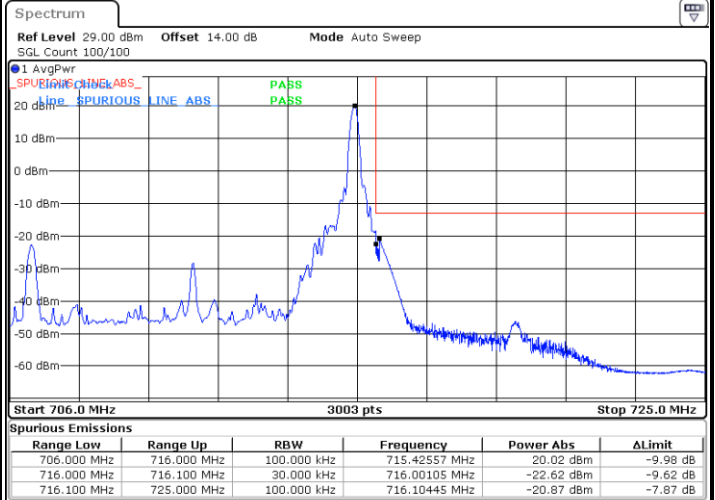
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



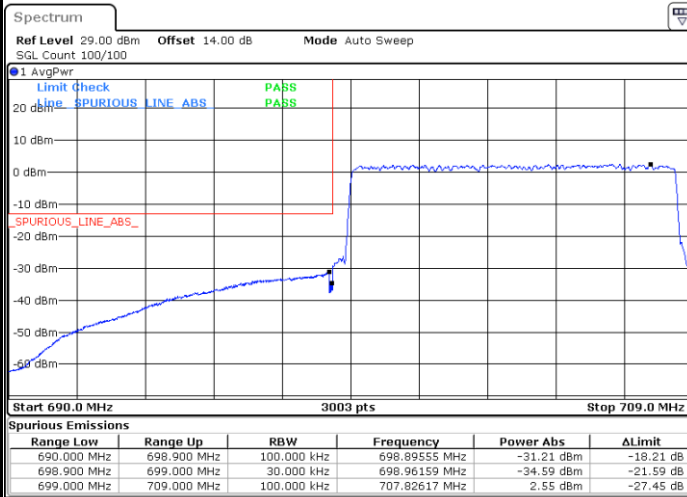
Date: 12.AUG.2021 14:11:00

Highest Band Edge / 1 RB



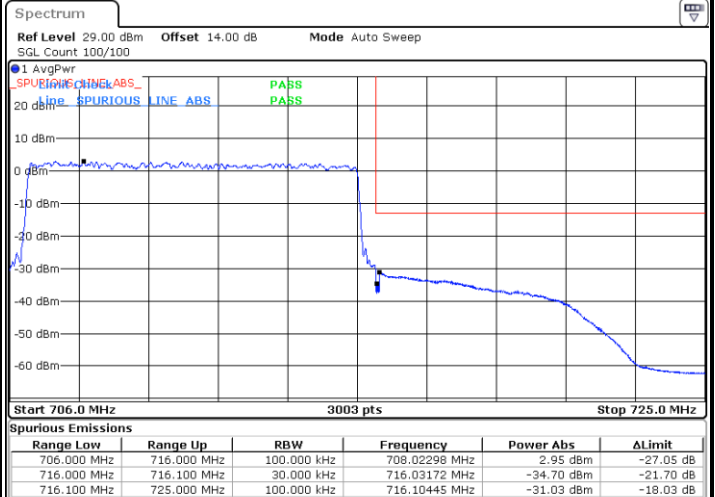
Date: 12.AUG.2021 14:19:01

Lowest Band Edge / Full RB



Date: 12.AUG.2021 14:09:01

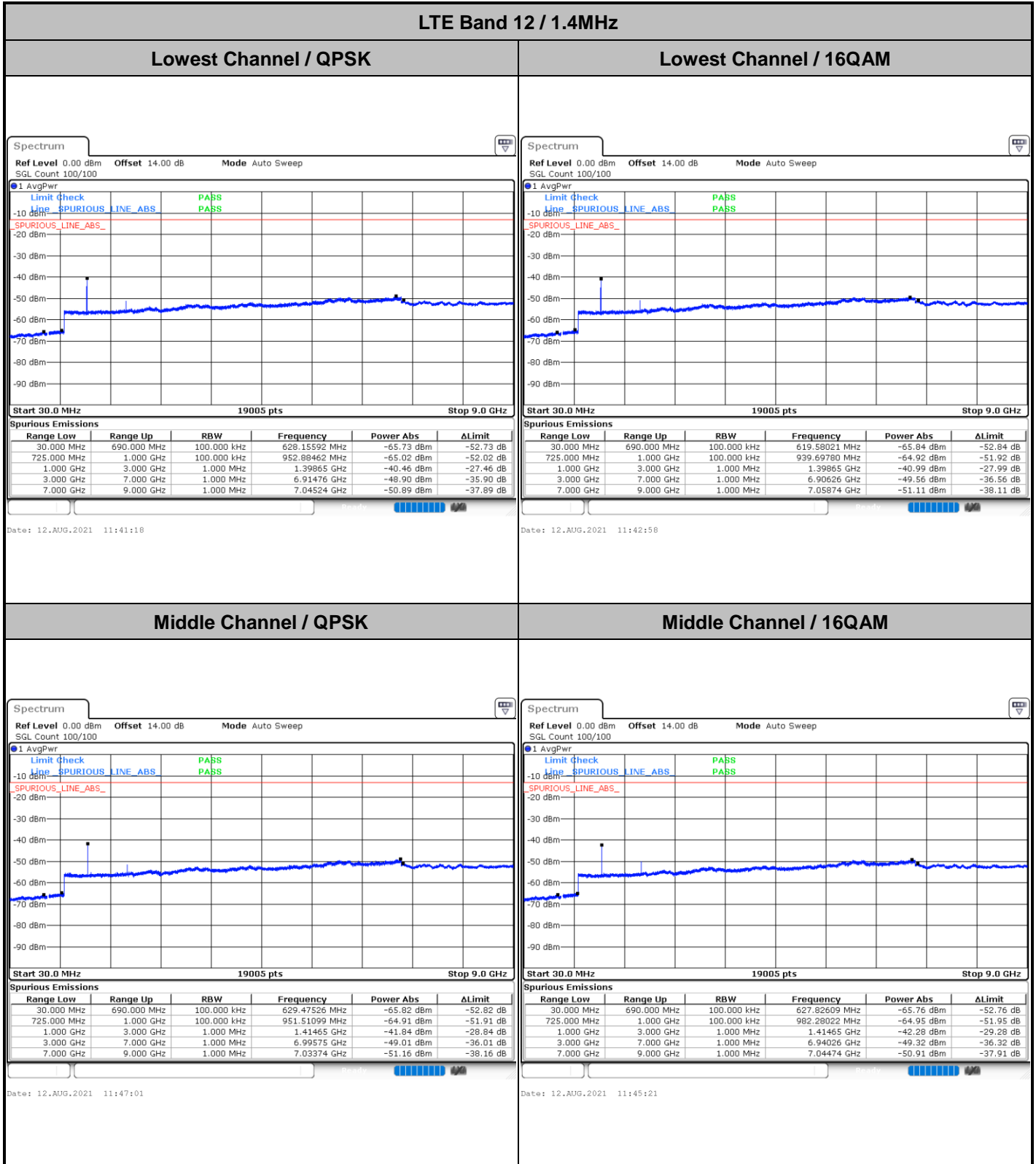
Highest Band Edge / Full RB



Date: 12.AUG.2021 14:17:02



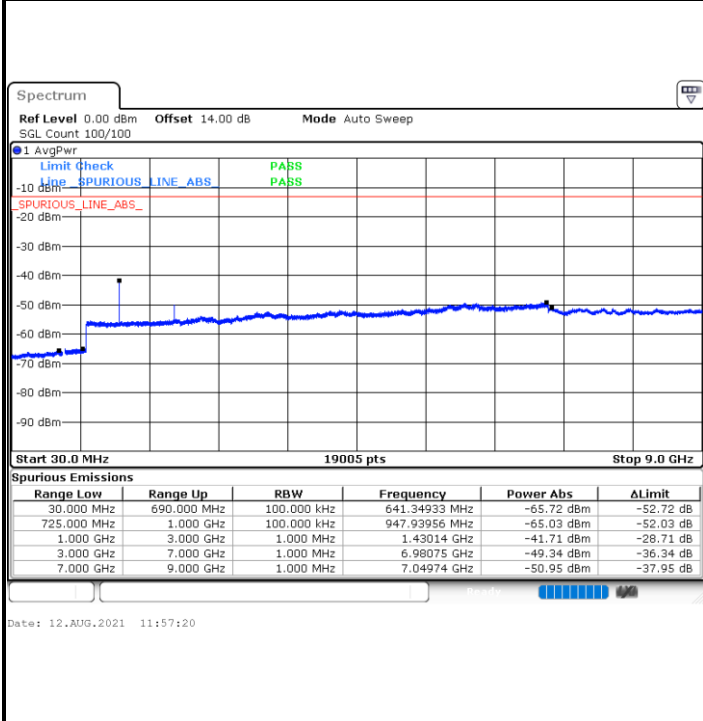
Conducted Spurious Emission



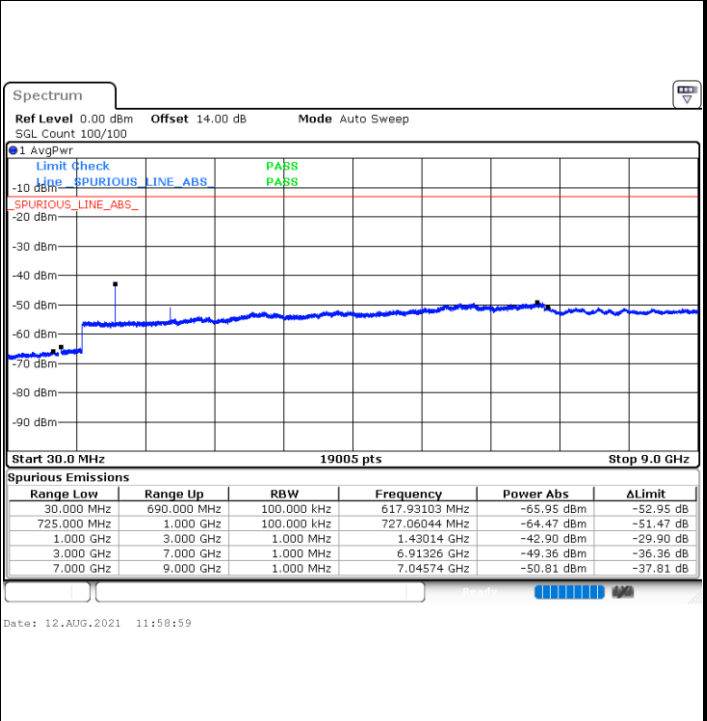


LTE Band 12 / 1.4MHz

Highest Channel / QPSK

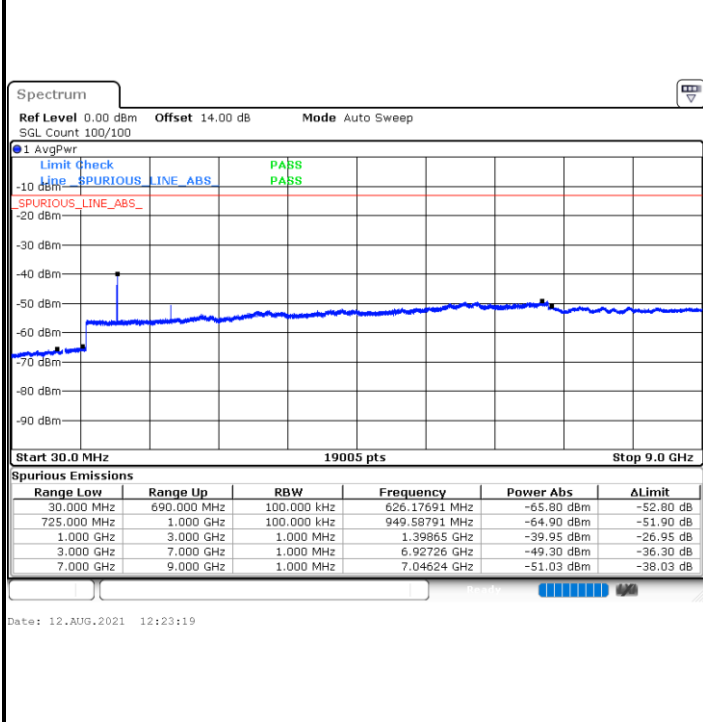


Highest Channel / 16QAM



LTE Band 12 / 3MHz

Lowest Channel / QPSK



Lowest Channel / 16QAM

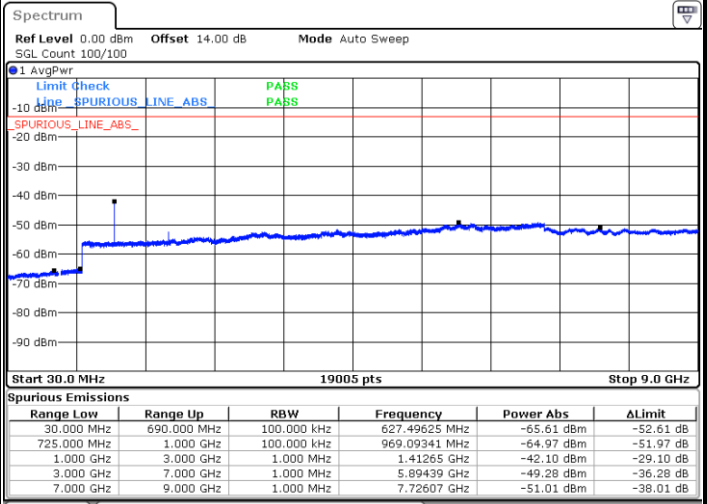
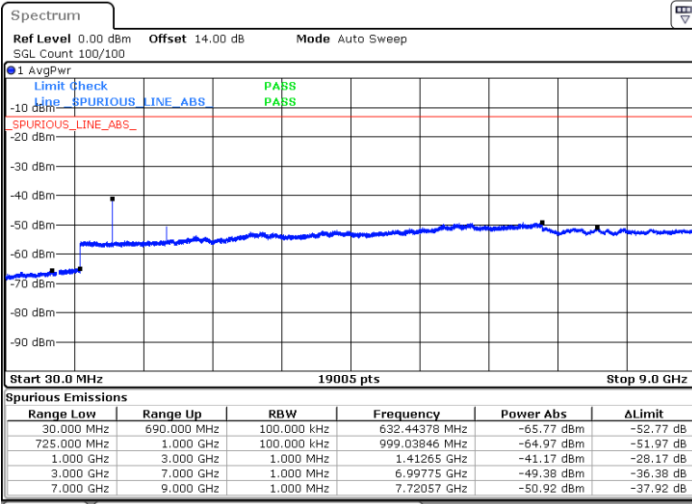




LTE Band 12 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

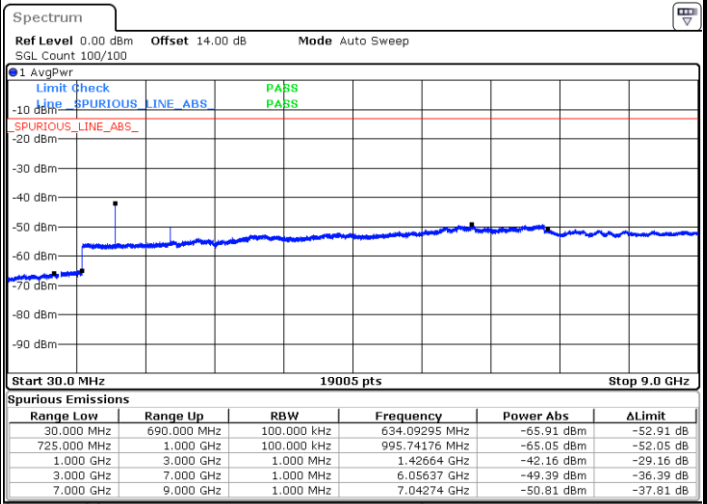
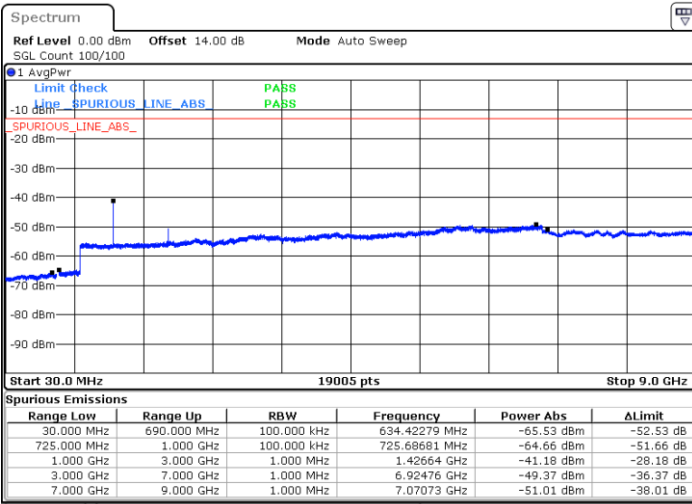


Date: 12.AUG.2021 12:29:01

Date: 12.AUG.2021 12:27:22

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 12.AUG.2021 12:39:21

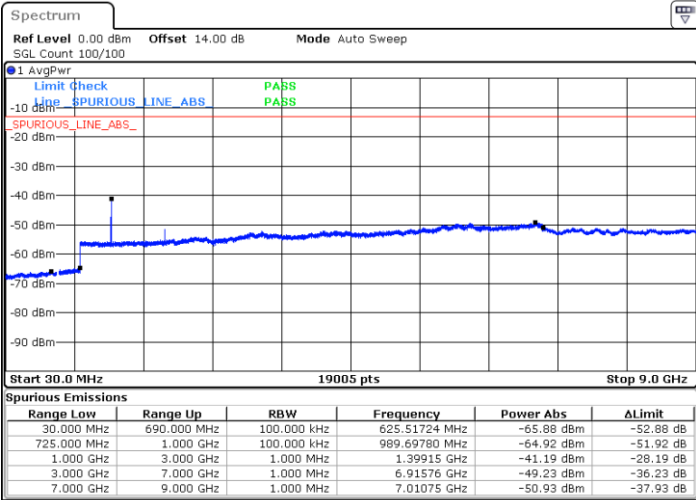
Date: 12.AUG.2021 12:41:00



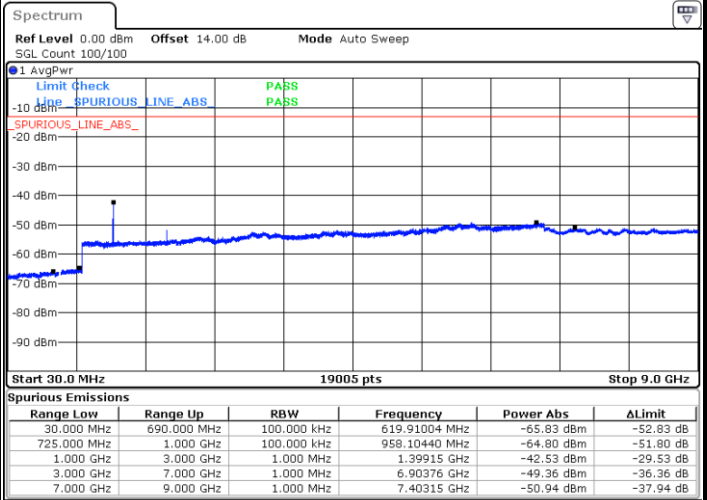
LTE Band 12 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



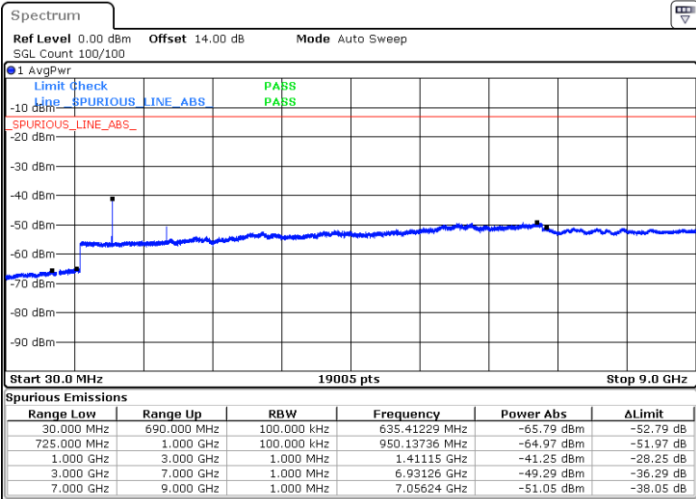
Date: 12.AUG.2021 13:19:19



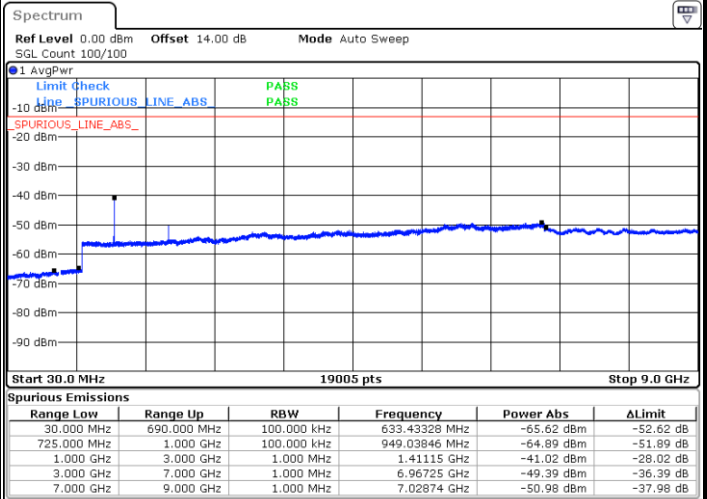
Date: 12.AUG.2021 13:20:58

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 12.AUG.2021 13:25:01

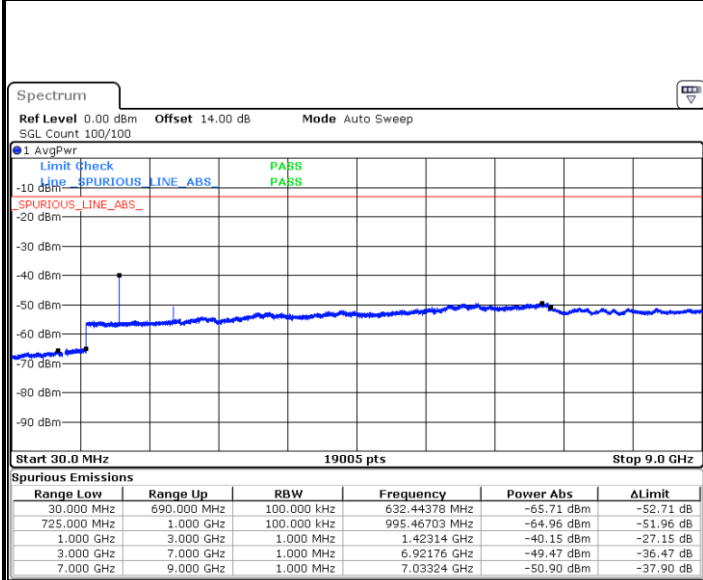


Date: 12.AUG.2021 13:23:21



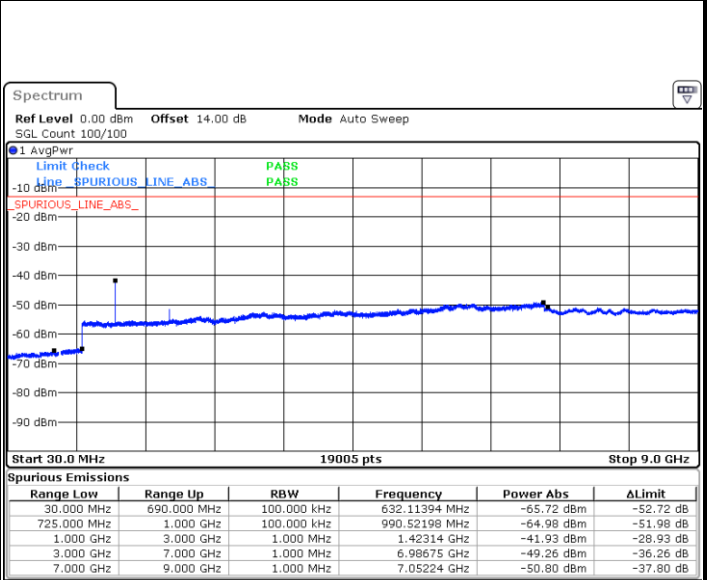
LTE Band 12 / 5MHz

Highest Channel / QPSK



Date: 12.AUG.2021 13:36:59

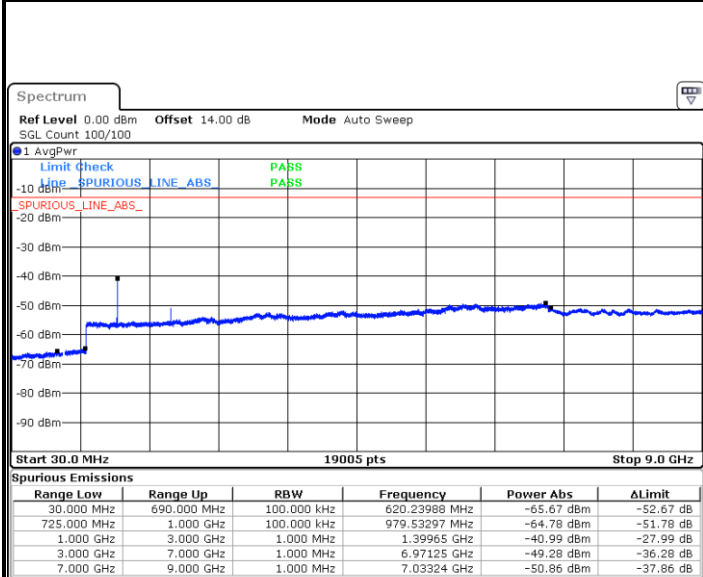
Highest Channel / 16QAM



Date: 12.AUG.2021 13:35:20

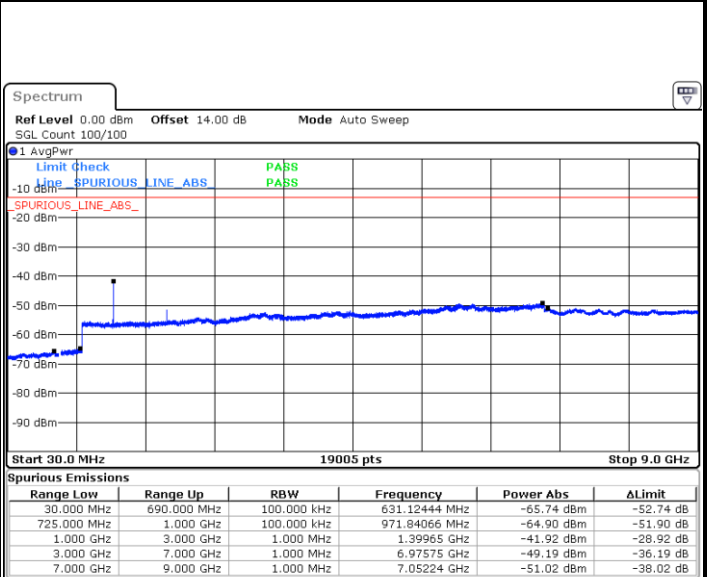
LTE Band 12 / 10MHz

Lowest Channel / QPSK



Date: 12.AUG.2021 13:47:19

Lowest Channel / 16QAM



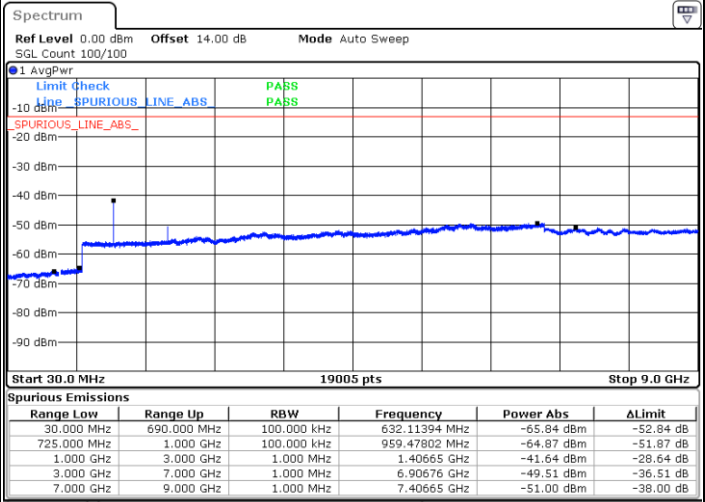
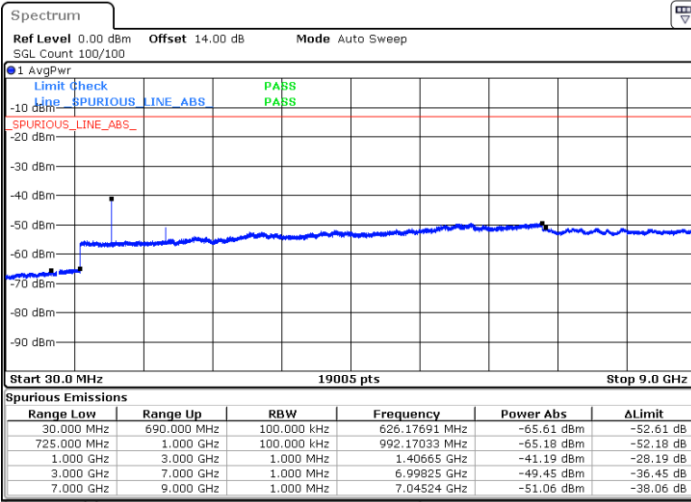
Date: 12.AUG.2021 13:48:58



LTE Band 12 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

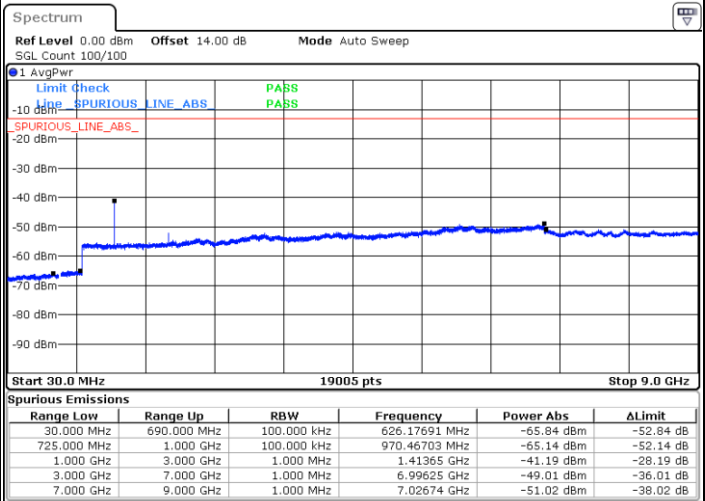
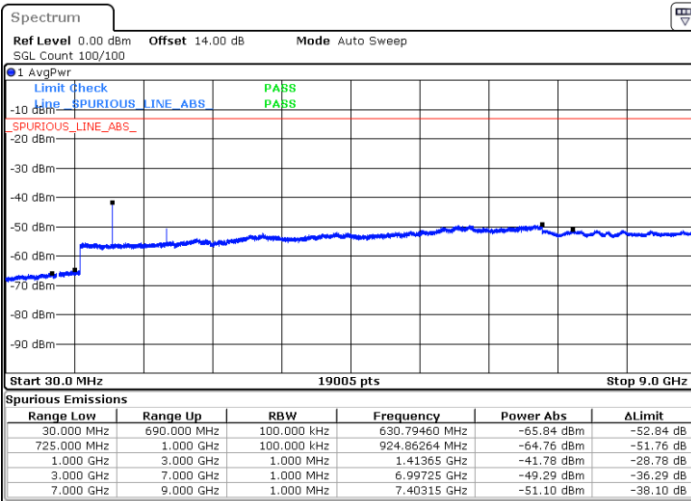


Date: 12.AUG.2021 13:53:00

Date: 12.AUG.2021 13:51:21

Highest Channel / QPSK

Highest Channel / 16QAM

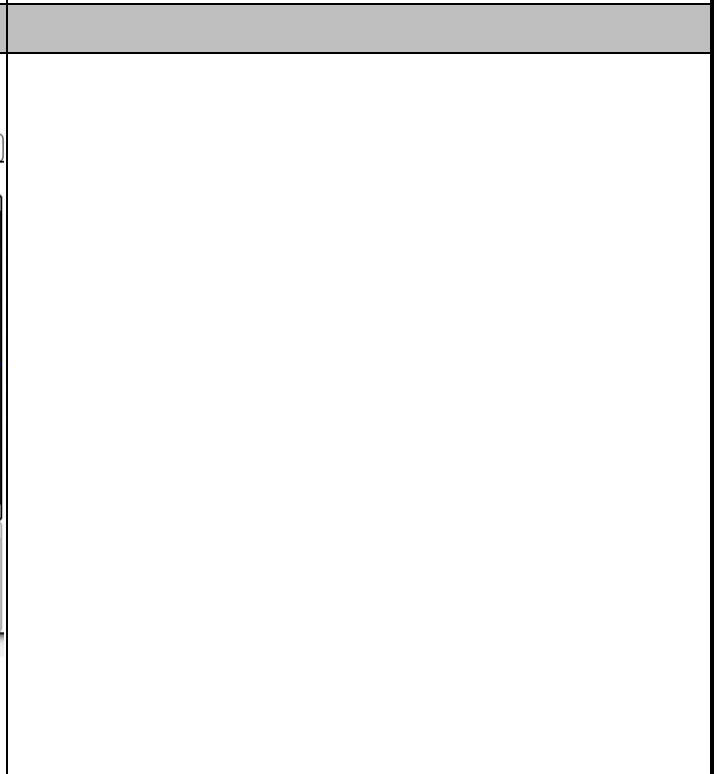
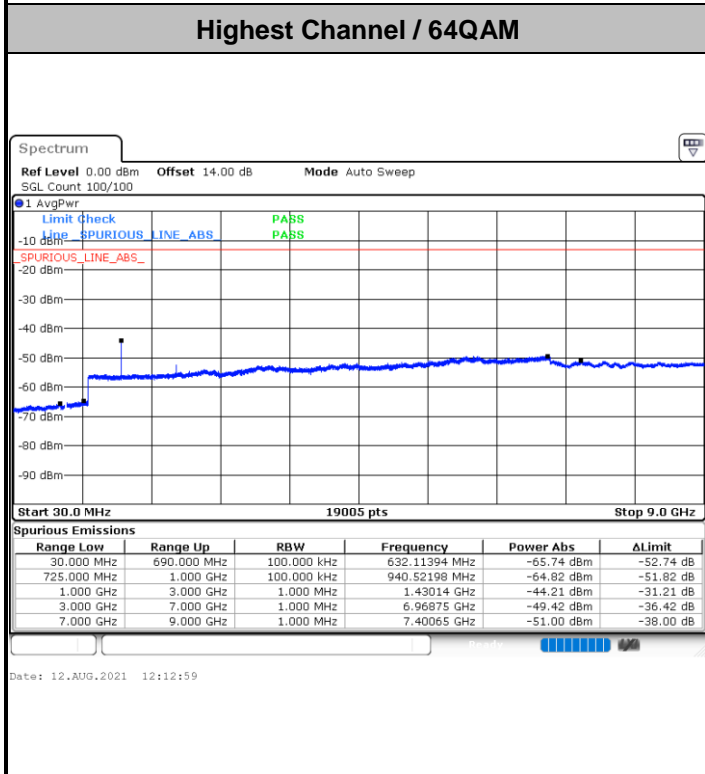
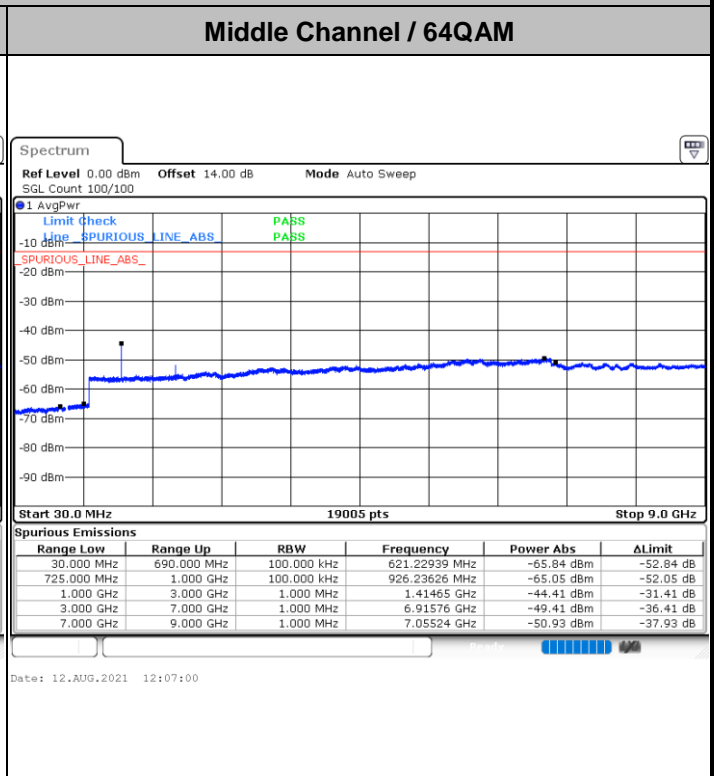
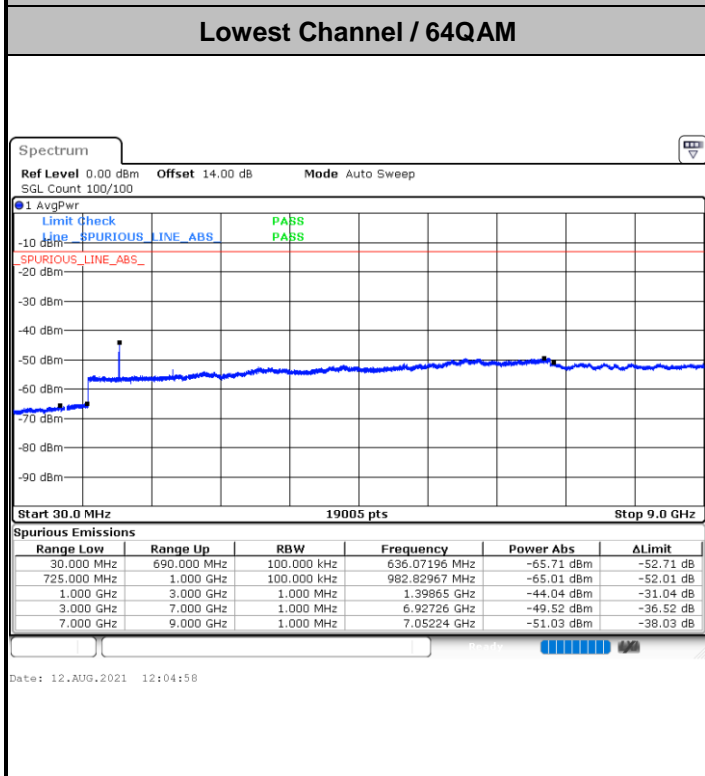


Date: 12.AUG.2021 14:05:01

Date: 12.AUG.2021 14:06:41



LTE Band 12 / 1.4MHz

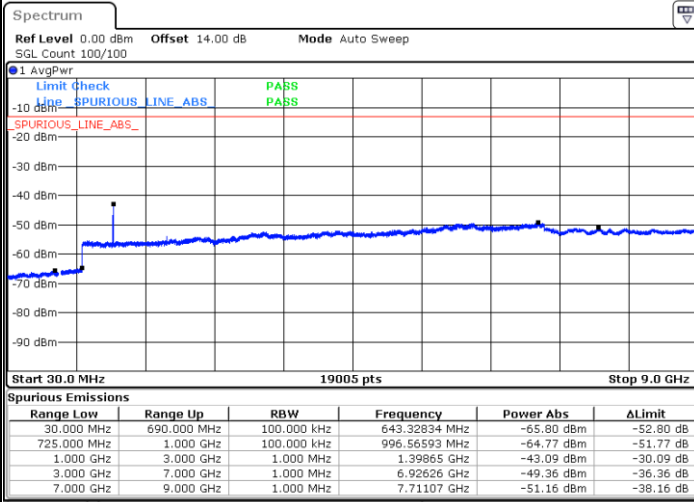




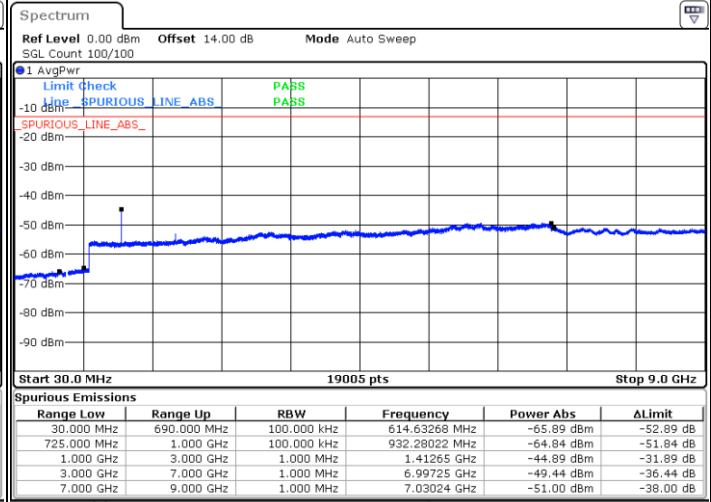
LTE Band 12 / 3MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

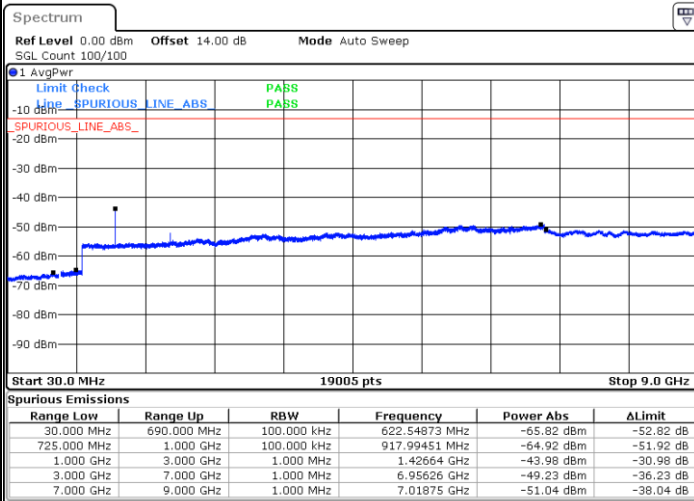


Date: 12.AUG.2021 12:46:59



Date: 12.AUG.2021 12:49:01

Highest Channel / 64QAM



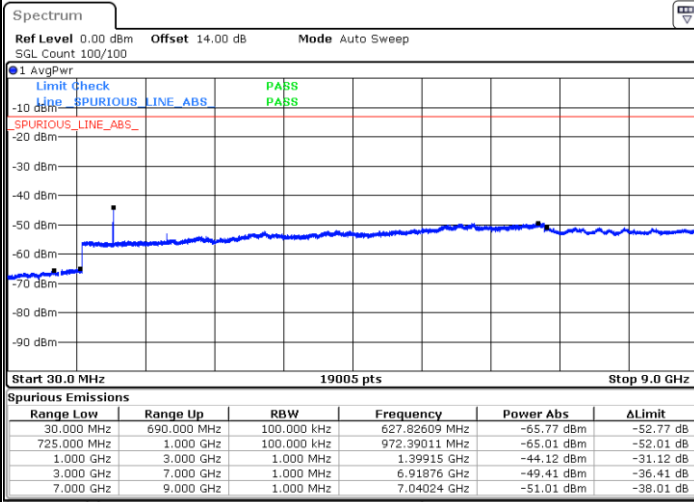
Date: 12.AUG.2021 12:55:00



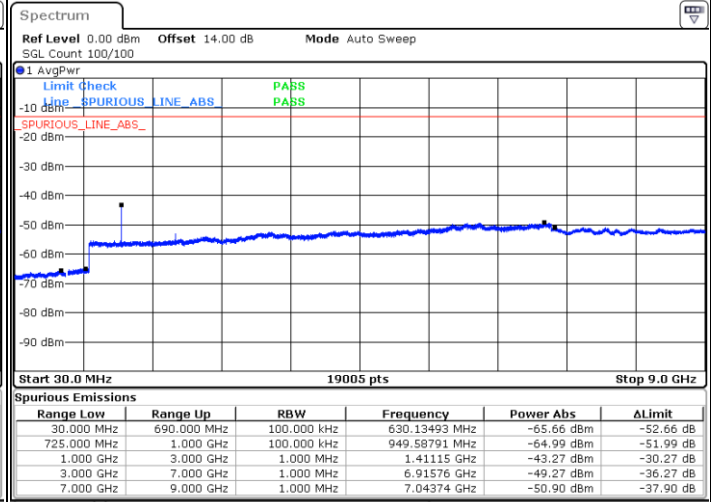
LTE Band 12 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

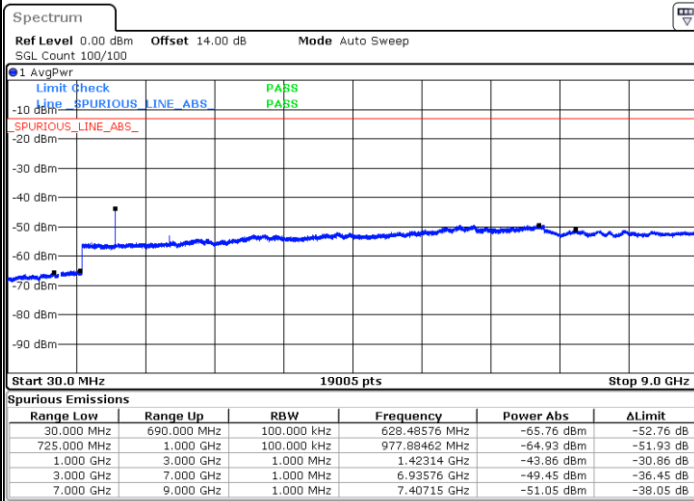


Date: 12.AUG.2021 13:00:59



Date: 12.AUG.2021 13:03:00

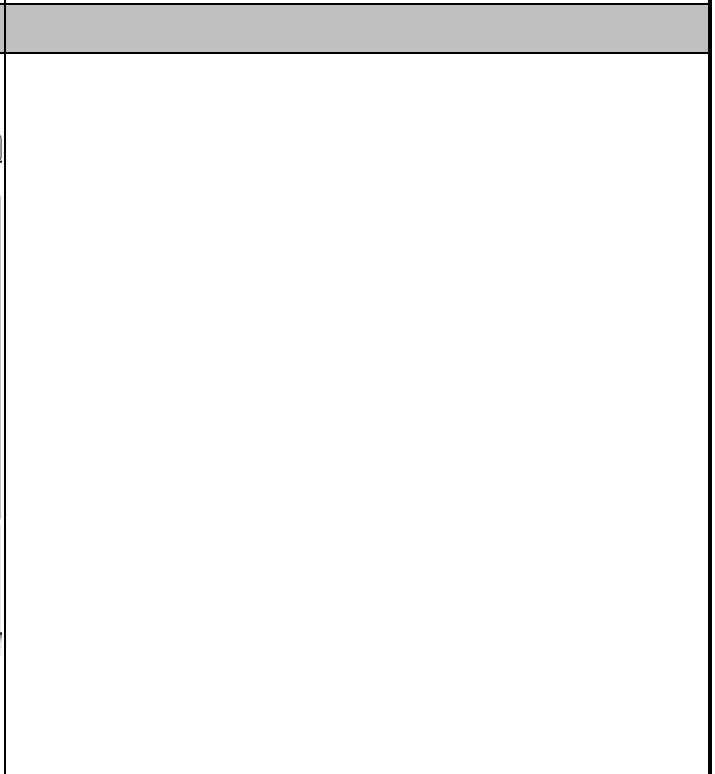
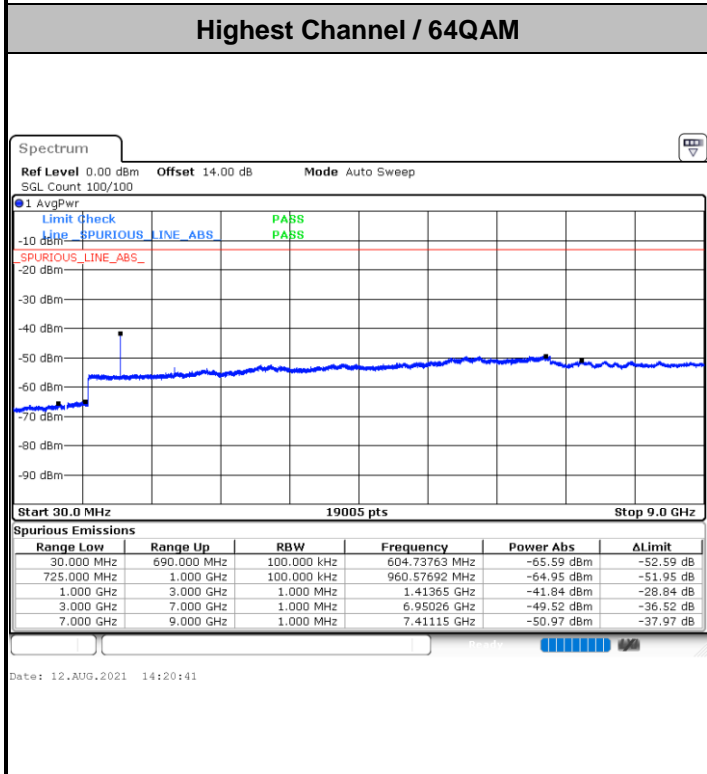
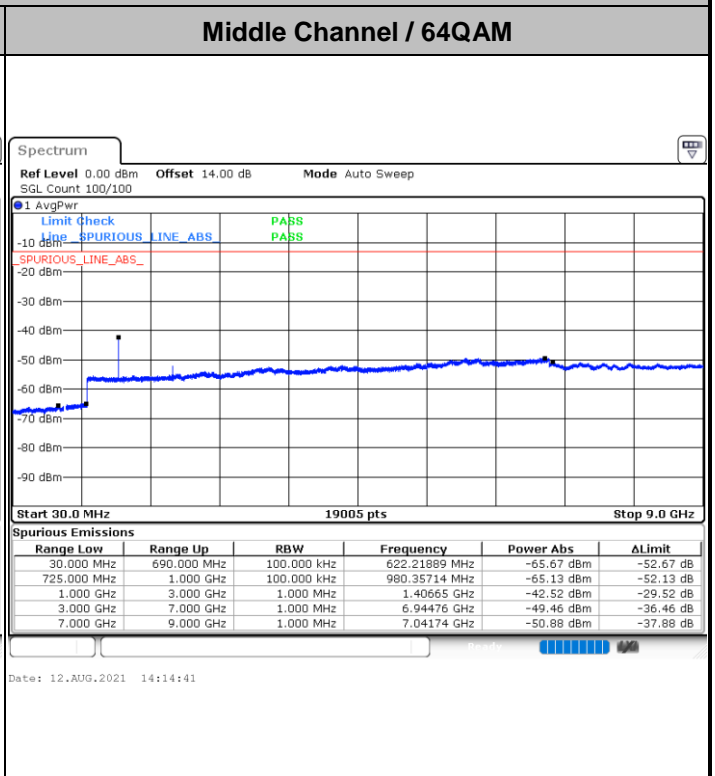
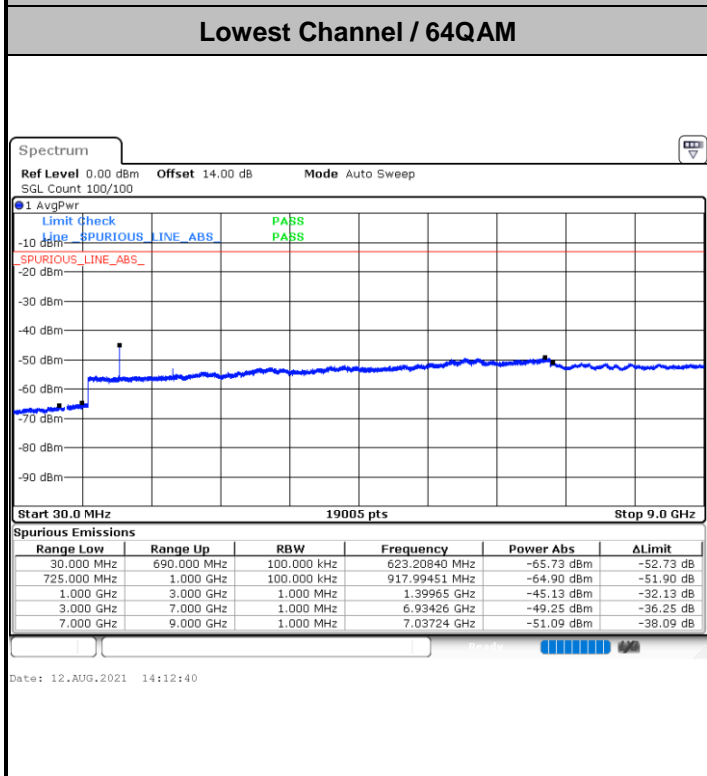
Highest Channel / 64QAM



Date: 12.AUG.2021 13:09:00



LTE Band 12 / 10MHz





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	0.0027	PASS
40	Normal Voltage	0.0208	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0011	
0	Normal Voltage	0.0018	
-10	Normal Voltage	0.0199	
-20	Normal Voltage	0.0011	
-30	Normal Voltage	0.0007	
20	Maximum Voltage	0.0018	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0222	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

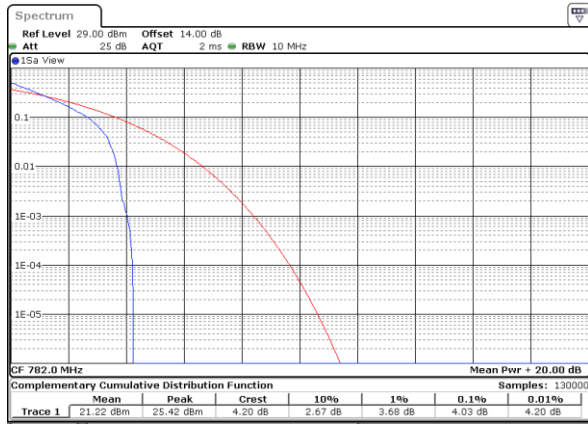
Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	4.03	5.36	5.01	6.23	
Highest CH	-	-	-	-	
Mode	LTE Band 13 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	-	-	-	-	PASS
Middle CH	5.57	6.55	-	-	
Highest CH	-	-	-	-	



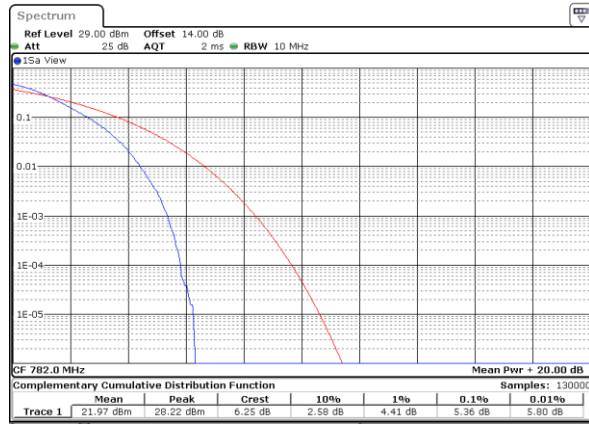
LTE Band 13 / 10MHz / QPSK

Middle Channel / 1RB



Date: 12_AUG.2021 16:08:49

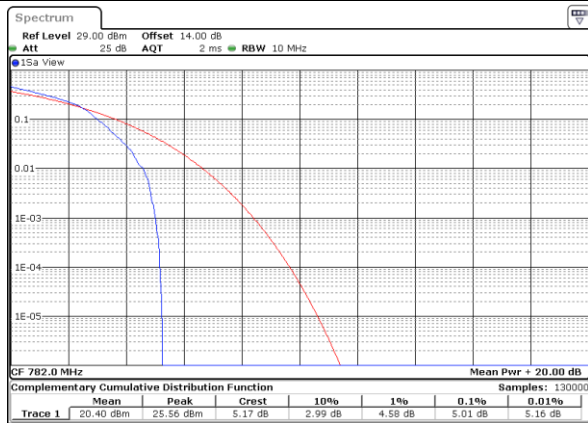
Middle Channel / Full RB



Date: 12_AUG.2021 16:09:39

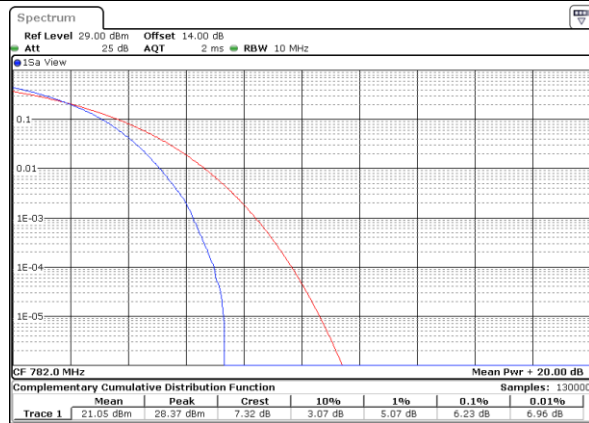
LTE Band 13 / 10MHz / 16QAM

Middle Channel / 1RB



Date: 12_AUG.2021 16:07:03

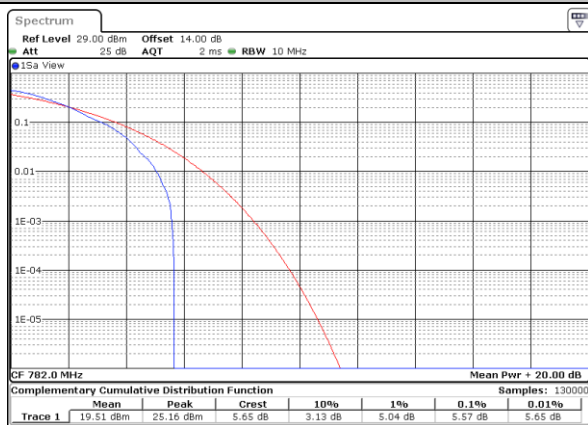
Middle Channel / Full RB



Date: 12_AUG.2021 16:07:43

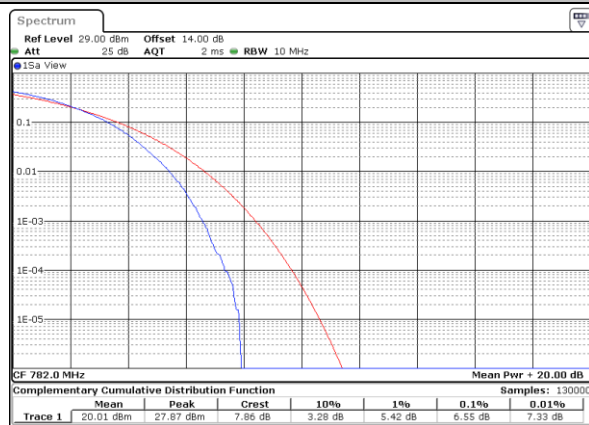
LTE Band 13 / 10MHz / 64QAM

Middle Channel / 1RB



Date: 12_AUG.2021 16:06:21

Middle Channel / Full RB



Date: 12_AUG.2021 16:06:44



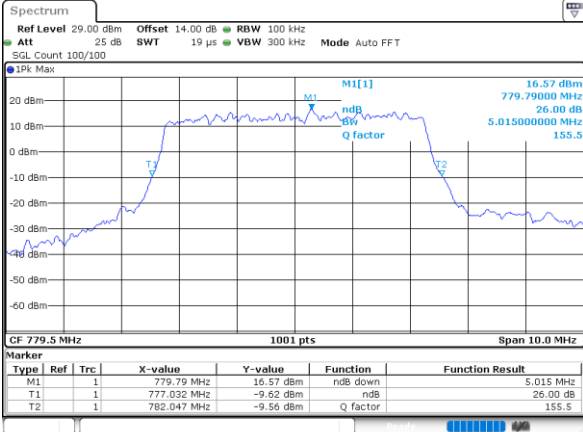
26dB Bandwidth

Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	5.02	4.98	-	-	-	-	-	-
Middle CH	-	-	-	-	4.91	5.12	9.89	9.89	-	-	-	-
Highest CH	-	-	-	-	5.03	4.95	-	-	-	-	-	-
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	5.10	-	-	-	-	-	-	-
Middle CH	-	-	-	-	5.10	-	10.15	-	-	-	-	-
Highest CH	-	-	-	-	5.26	-	-	-	-	-	-	-



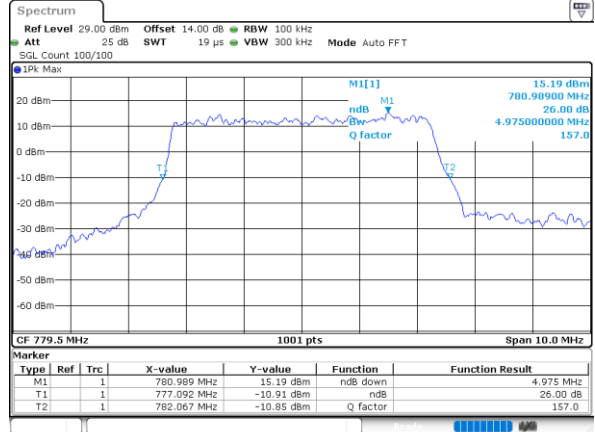
LTE Band 13

Lowest Channel / 5MHz / QPSK



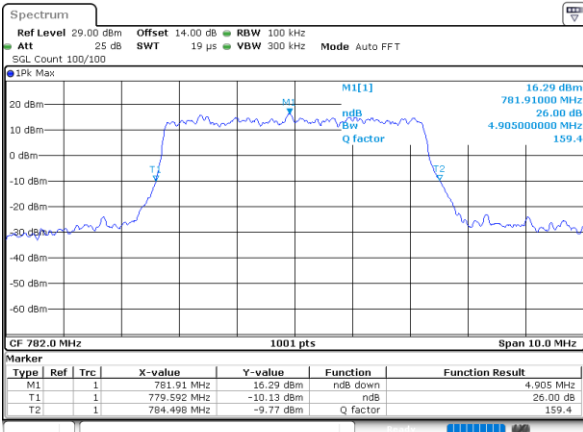
Date: 12_AUG.2021 15:02:01

Lowest Channel / 5MHz / 16QAM



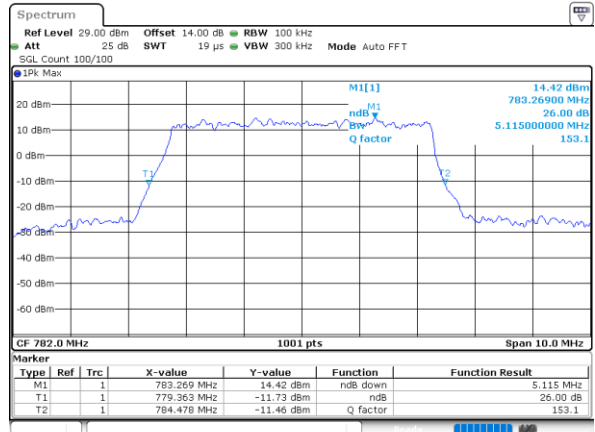
Date: 12_AUG.2021 15:01:50

Middle Channel / 5MHz / QPSK



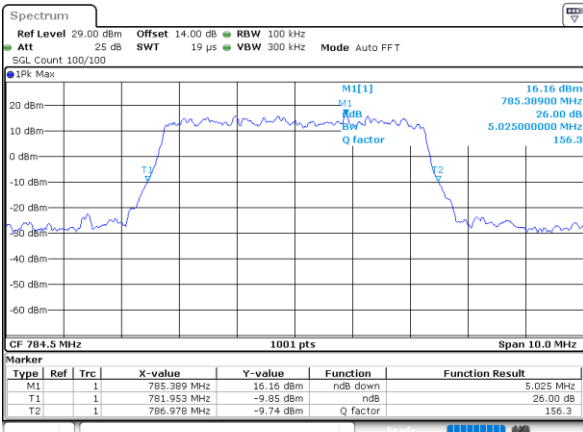
Date: 12_AUG.2021 15:15:25

Middle Channel / 5MHz / 16QAM



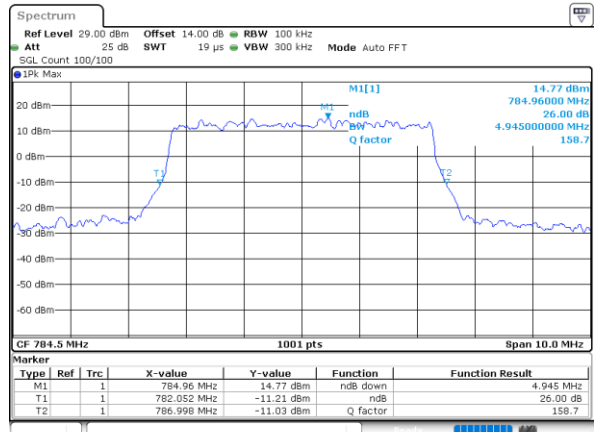
Date: 12_AUG.2021 15:15:36

Highest Channel / 5MHz / QPSK



Date: 12_AUG.2021 15:16:43

Highest Channel / 5MHz / 16QAM

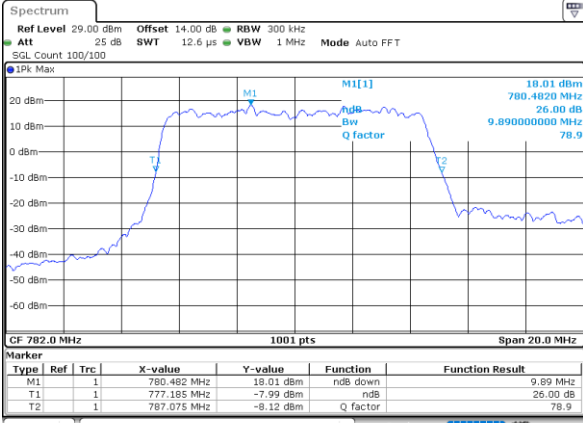


Date: 12_AUG.2021 15:16:32



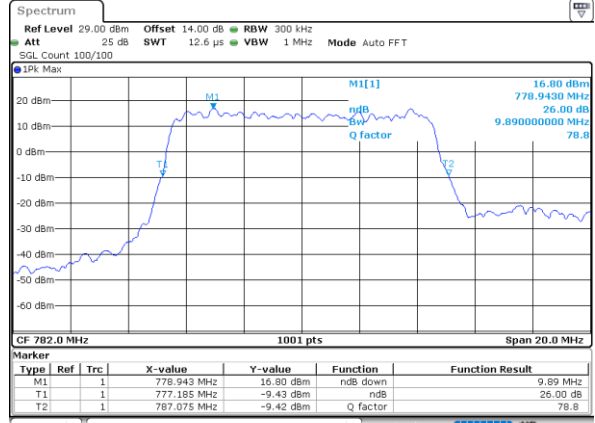
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 12.AUG.2021 15:40:02

Middle Channel / 10MHz / 16QAM

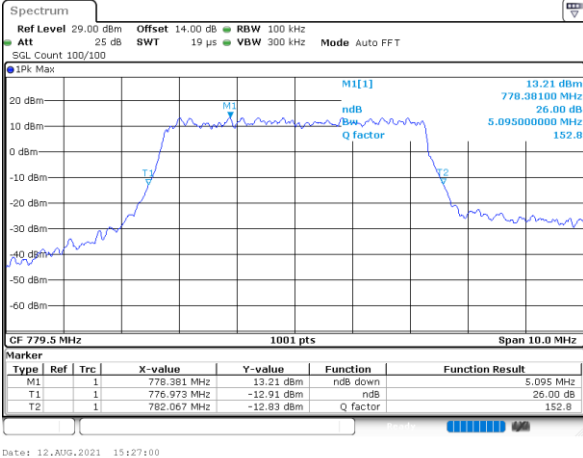


Date: 12.AUG.2021 15:39:51



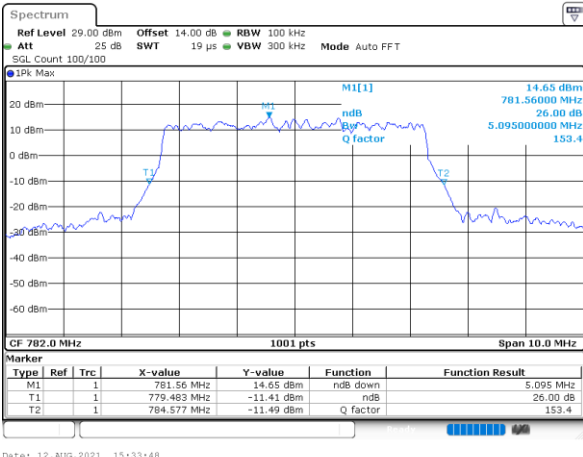
LTE Band 13

Lowest Channel / 5MHz / 64QAM



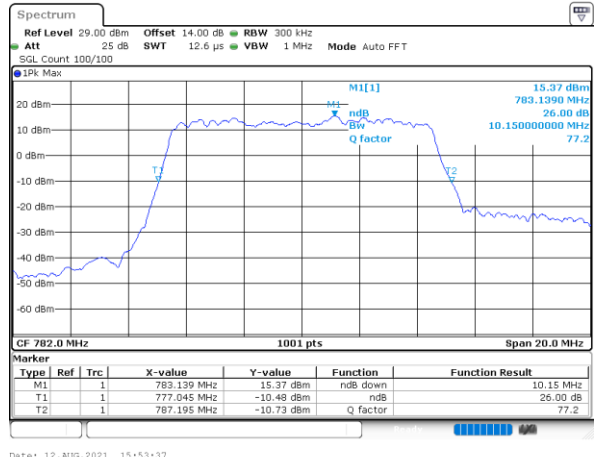
Date: 12_AUG.2021 15:27:00

Middle Channel / 5MHz / 64QAM



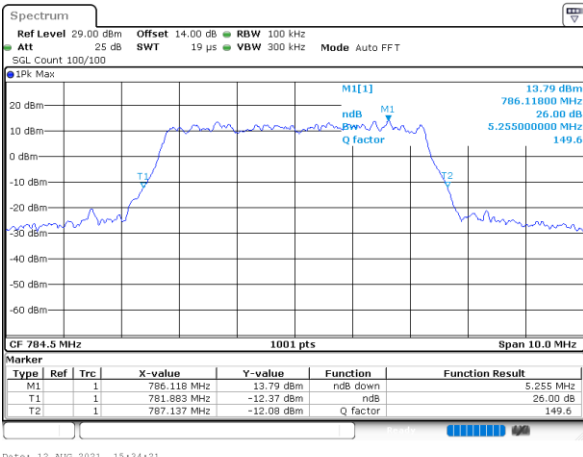
Date: 12_AUG.2021 15:33:48

Middle Channel / 10MHz / 64QAM



Date: 12_AUG.2021 15:53:37

Highest Channel / 5MHz / 64QAM



Date: 12_AUG.2021 15:34:21



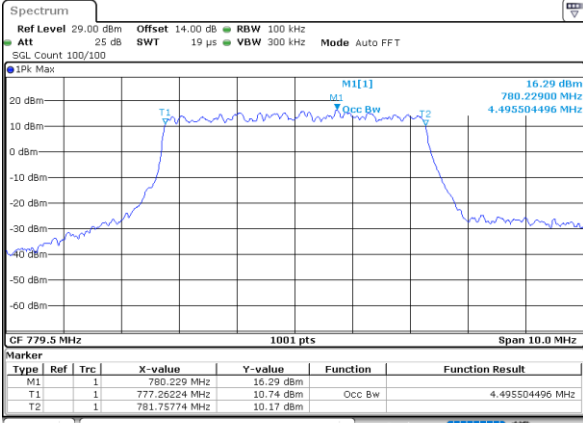
Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.50	4.49	-	-	-	-	-	-
Middle CH	-	-	-	-	4.53	4.50	9.07	9.01	-	-	-	-
Highest CH	-	-	-	-	4.50	4.49	-	-	-	-	-	-
Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.50	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.51	-	9.03	-	-	-	-	-
Highest CH	-	-	-	-	4.52	-	-	-	-	-	-	-



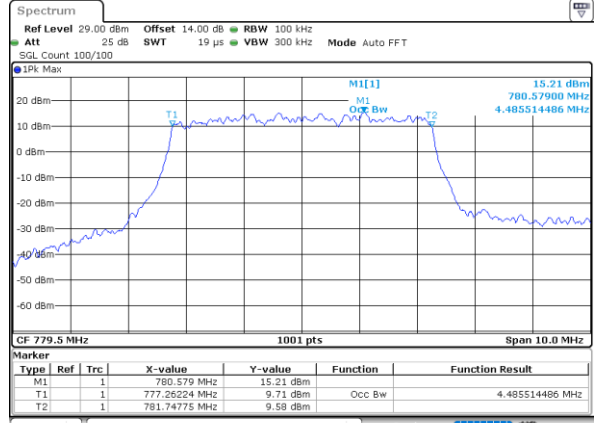
LTE Band 13

Lowest Channel / 5MHz / QPSK



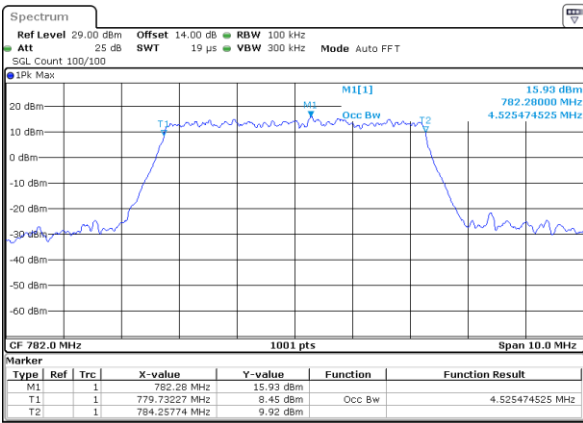
Date: 12.AUG.2021 15:01:20

Lowest Channel / 5MHz / 16QAM



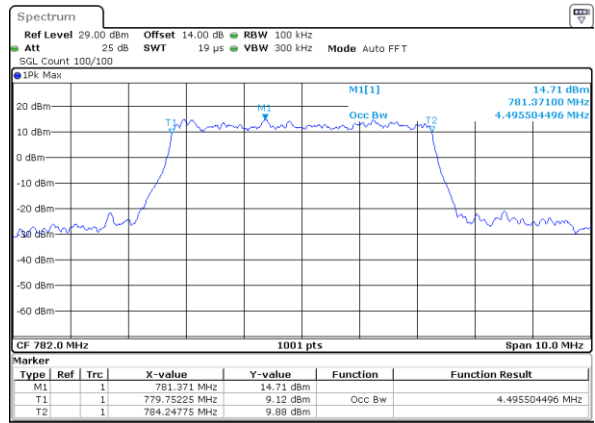
Date: 12.AUG.2021 15:01:40

Middle Channel / 5MHz / QPSK



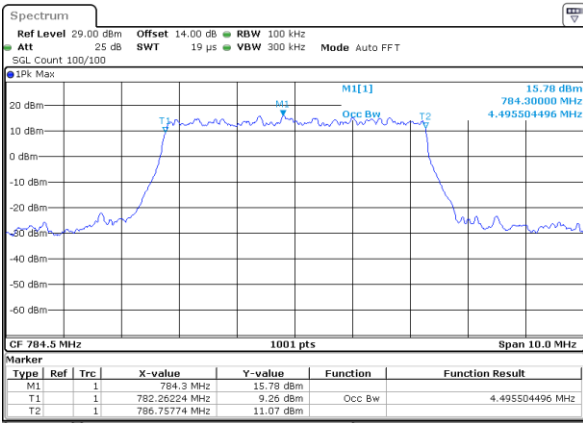
Date: 12.AUG.2021 15:15:50

Middle Channel / 5MHz / 16QAM



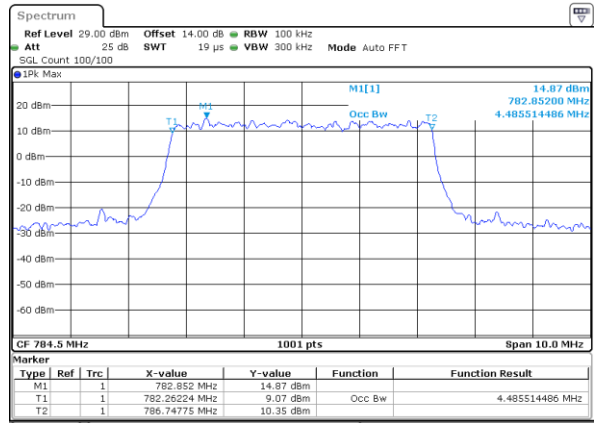
Date: 12.AUG.2021 15:15:47

Highest Channel / 5MHz / QPSK



Date: 12.AUG.2021 15:16:09

Highest Channel / 5MHz / 16QAM

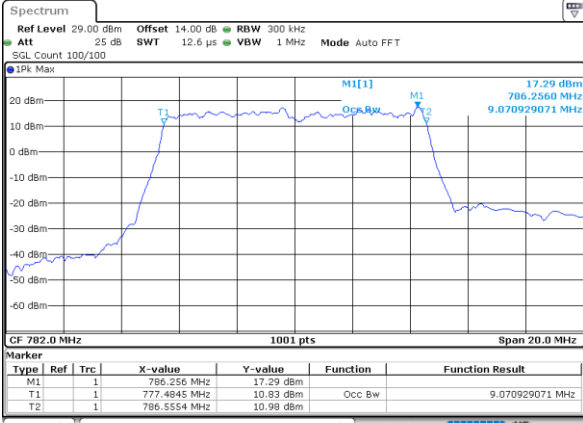


Date: 12.AUG.2021 15:16:20



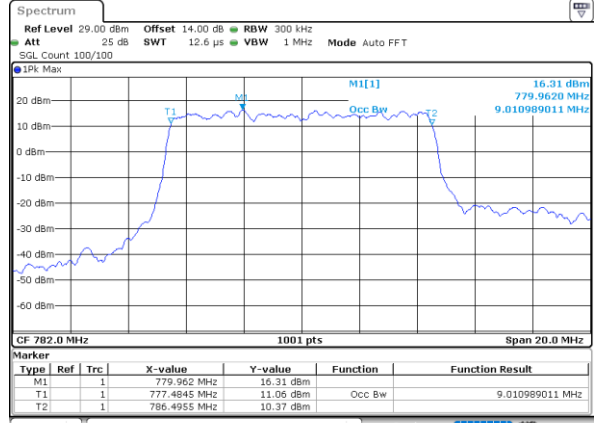
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 12.AUG.2021 15:39:29

Middle Channel / 10MHz / 16QAM

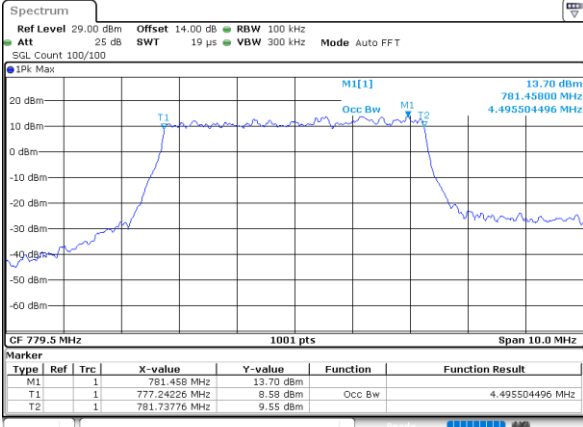


Date: 12.AUG.2021 15:39:40



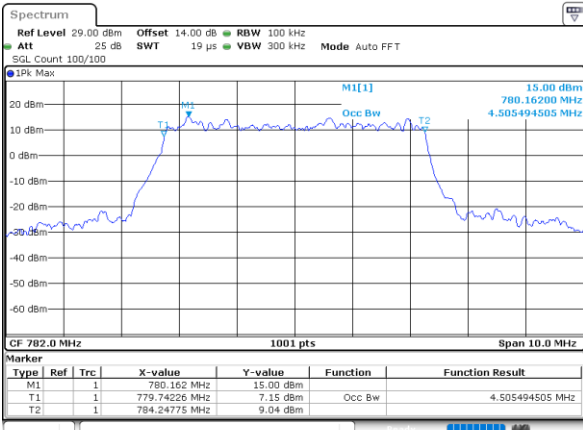
LTE Band 13

Lowest Channel / 5MHz / 64QAM



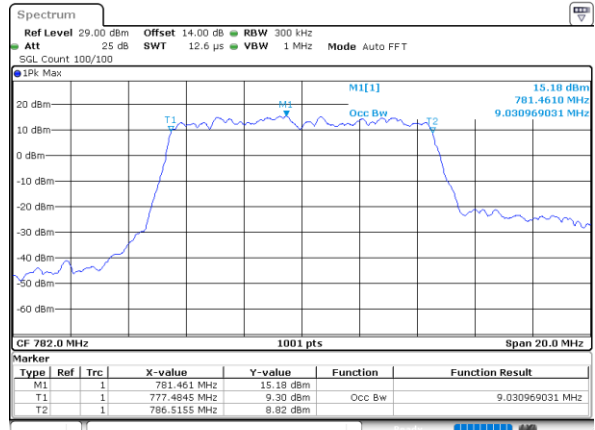
Date: 12_AUG.2021 15:26:49

Middle Channel / 5MHz / 64QAM



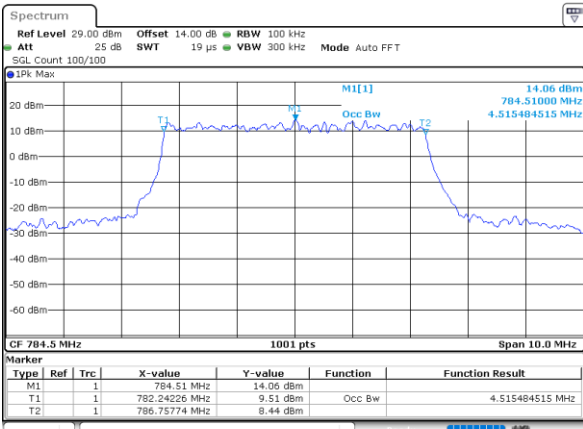
Date: 12_AUG.2021 15:33:59

Middle Channel / 10MHz / 64QAM



Date: 12_AUG.2021 15:53:26

Highest Channel / 5MHz / 64QAM



Date: 12_AUG.2021 15:34:10

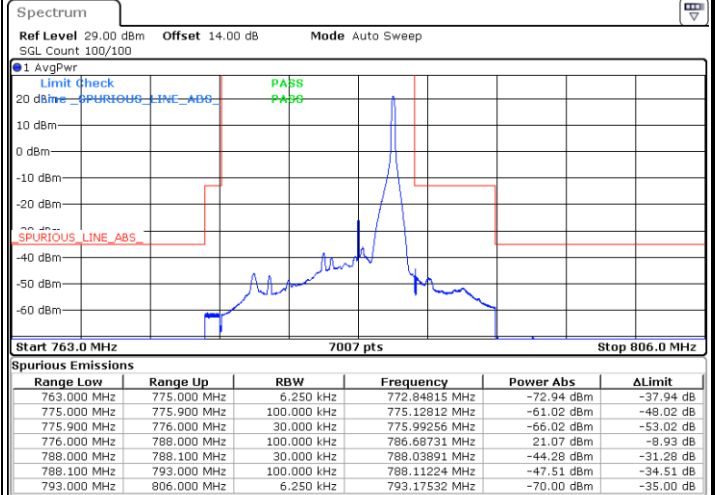
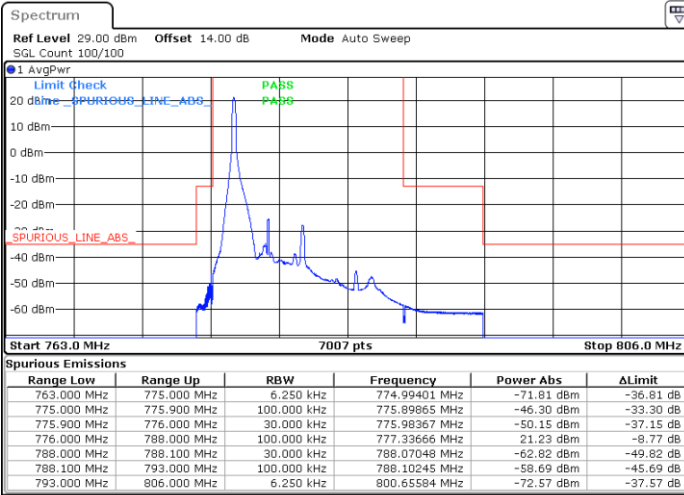


Conducted Band Edge

LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

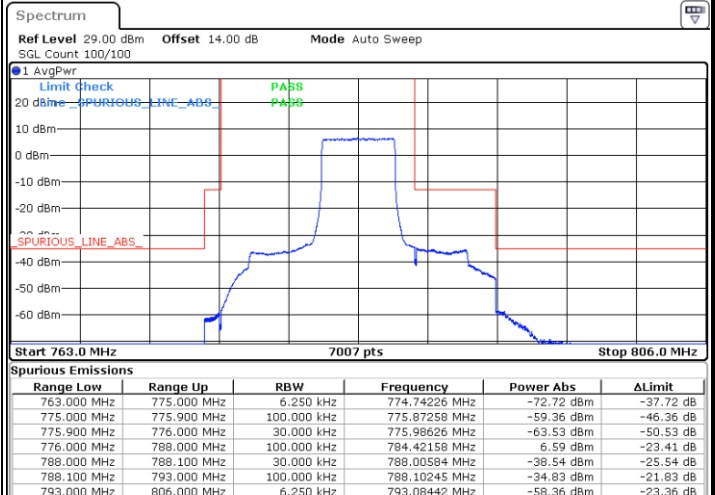
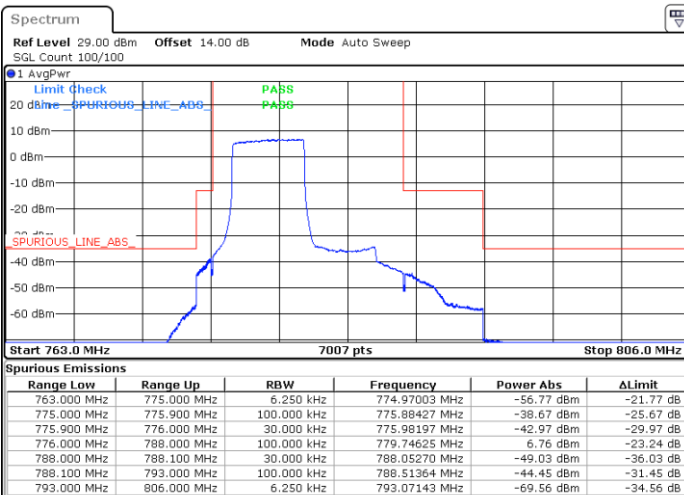


Date: 12.AUG.2021 15:08:38

Date: 12.AUG.2021 15:23:20

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 12.AUG.2021 15:03:40

Date: 12.AUG.2021 15:18:22