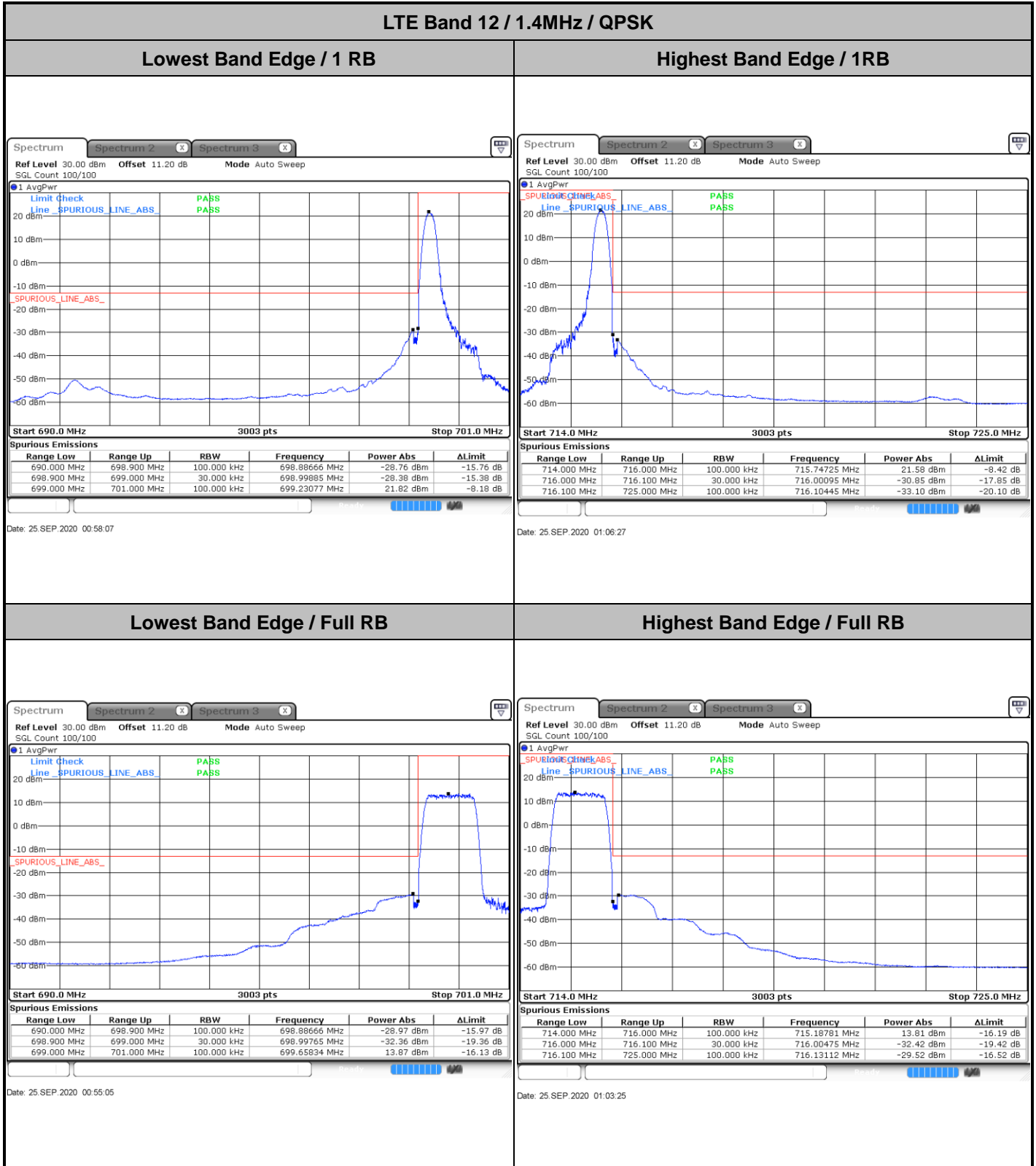




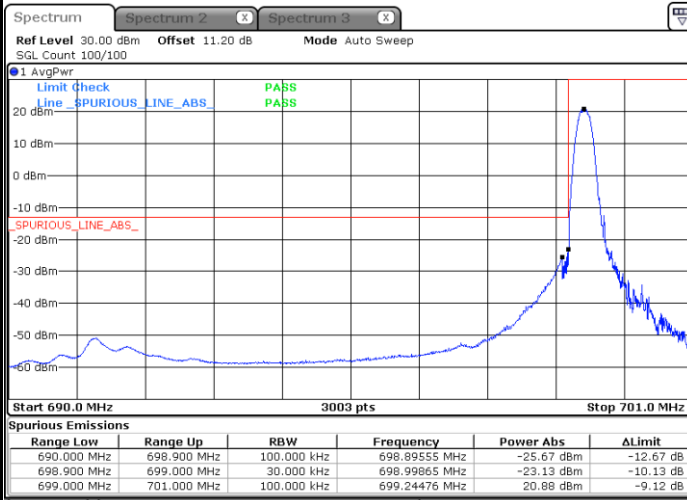
Conducted Band Edge





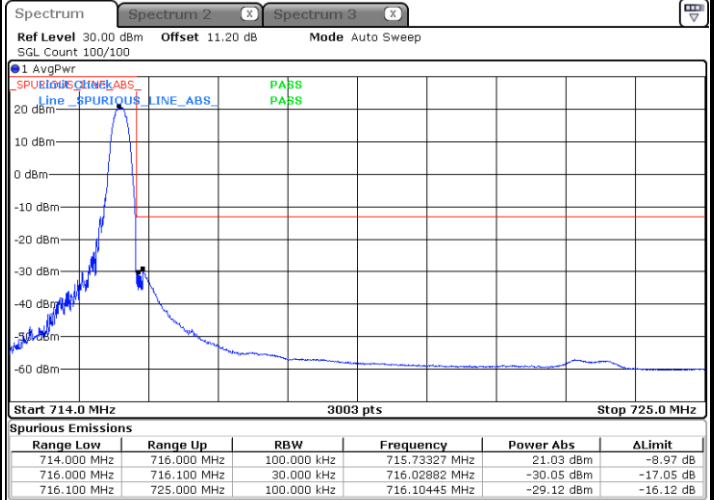
LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



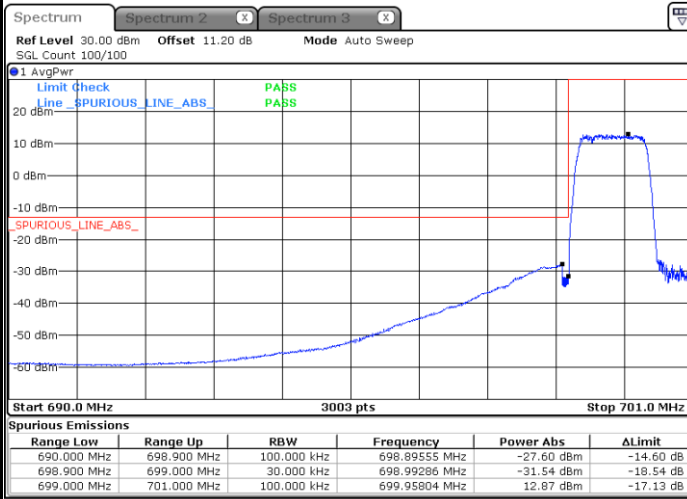
Date: 25 SEP 2020 00:57:06

Highest Band Edge / 1 RB



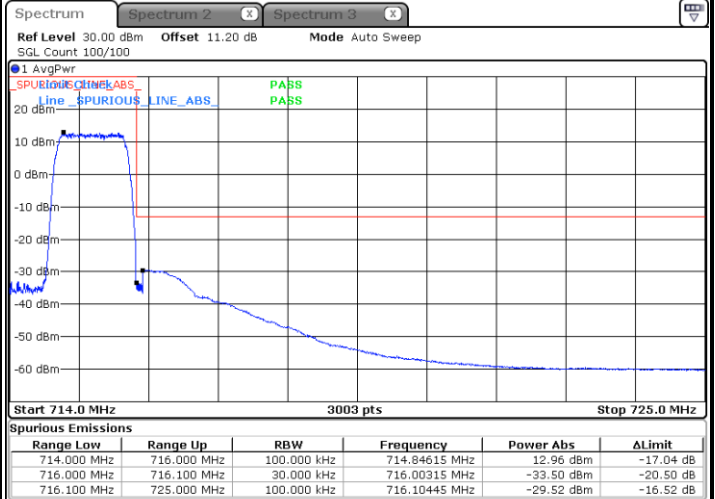
Date: 25 SEP 2020 01:05:27

Lowest Band Edge / Full RB



Date: 25 SEP 2020 00:56:05

Highest Band Edge / Full RB

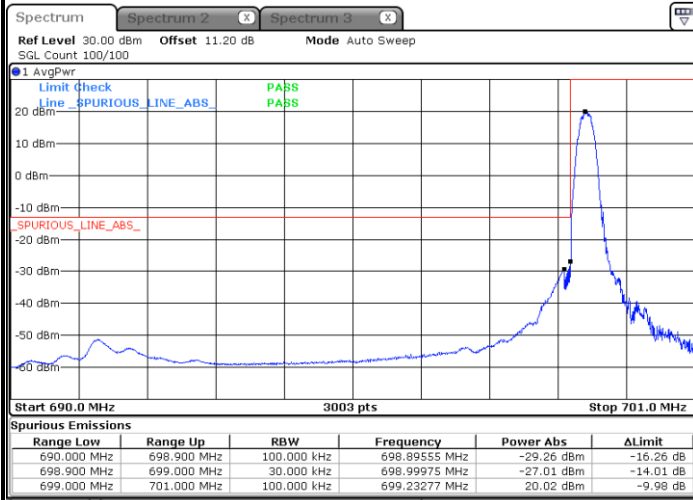


Date: 25 SEP 2020 01:04:26



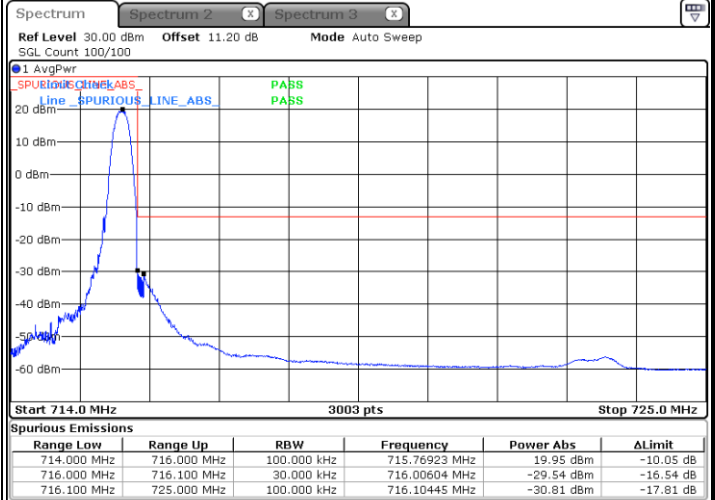
LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



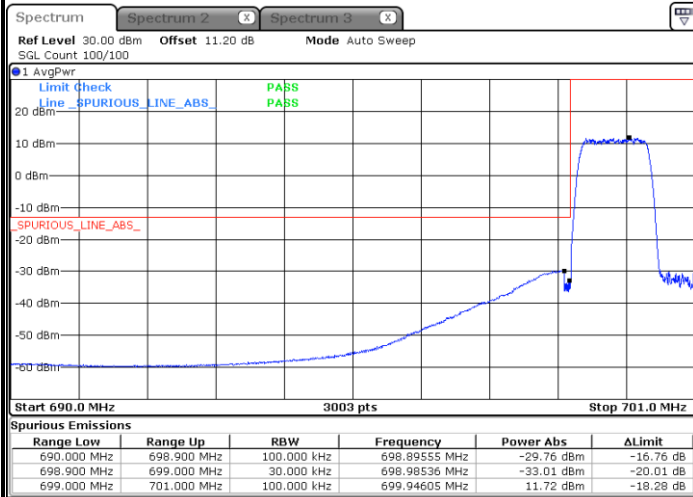
Date: 25 SEP 2020 01:10:14

Highest Band Edge / 1 RB



Date: 25 SEP 2020 01:14:24

Lowest Band Edge / Full RB



Date: 25 SEP 2020 01:09:14

Highest Band Edge / Full RB

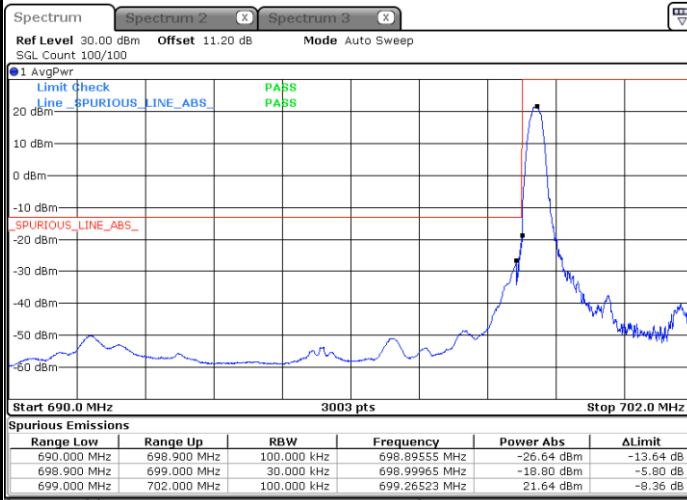


Date: 25 SEP 2020 01:13:23



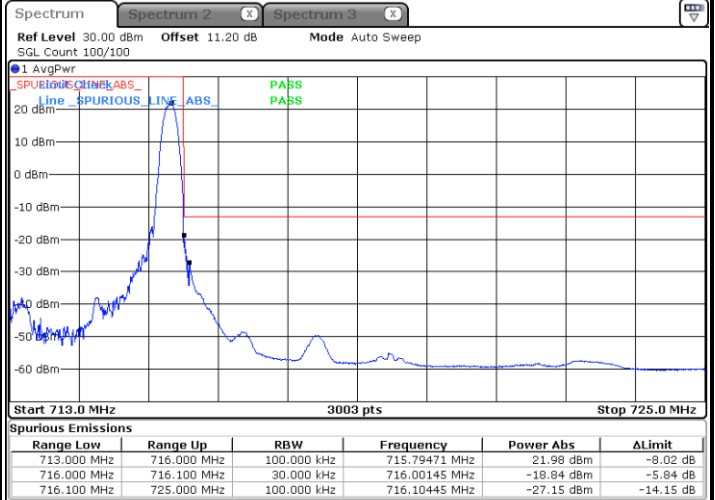
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



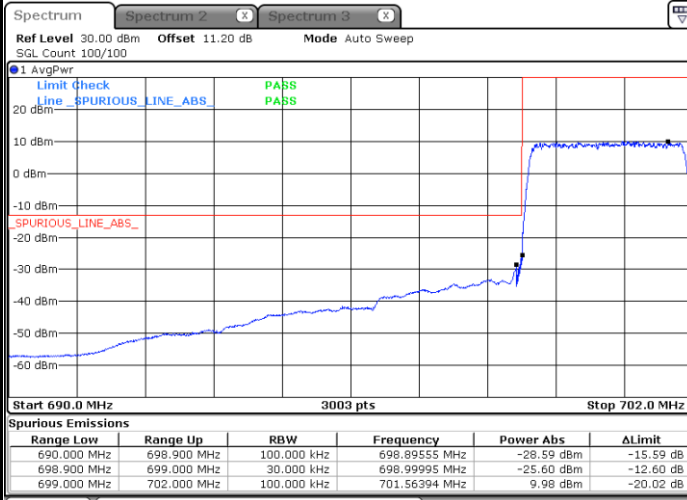
Date: 25 SEP 2020 01:19:58

Highest Band Edge / 1 RB



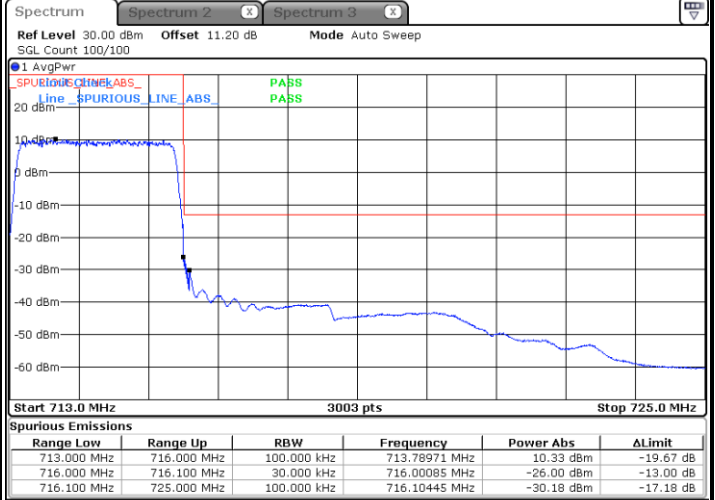
Date: 25 SEP 2020 01:35:10

Lowest Band Edge / Full RB



Date: 25 SEP 2020 01:16:55

Highest Band Edge / Full RB

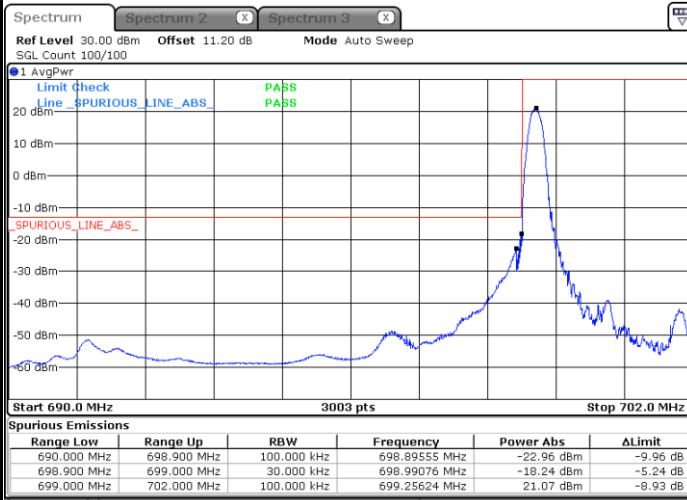


Date: 25 SEP 2020 01:32:08



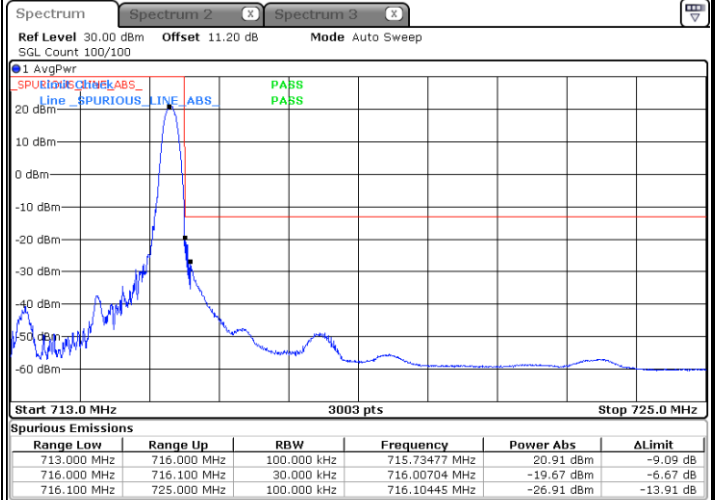
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



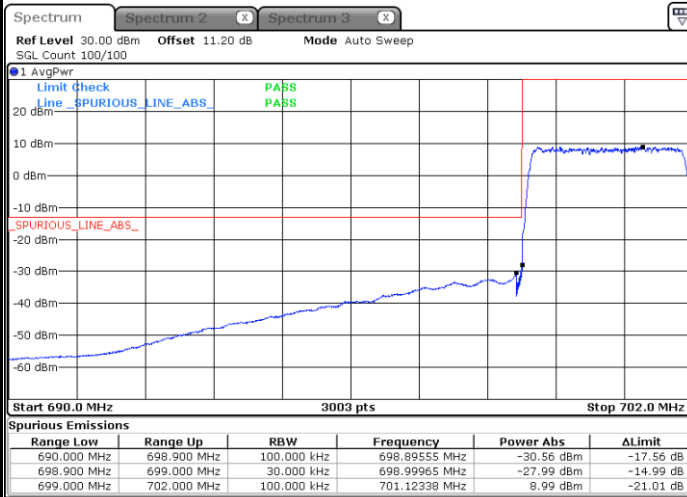
Date: 25 SEP 2020 01:18:57

Highest Band Edge / 1 RB



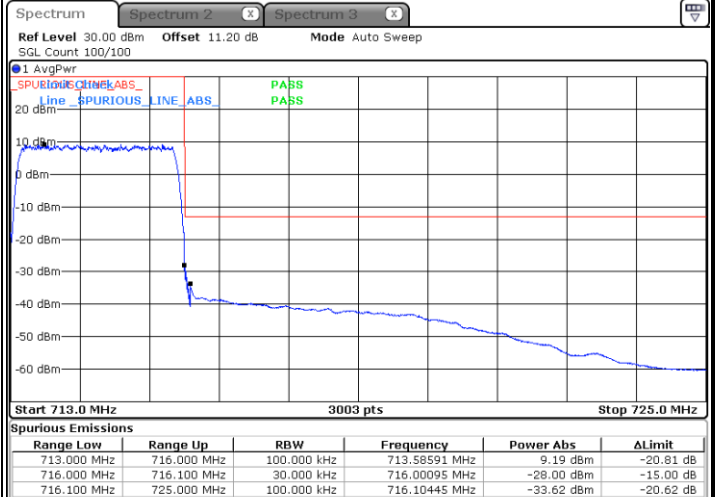
Date: 25 SEP 2020 01:34:10

Lowest Band Edge / Full RB



Date: 25 SEP 2020 01:17:56

Highest Band Edge / Full RB

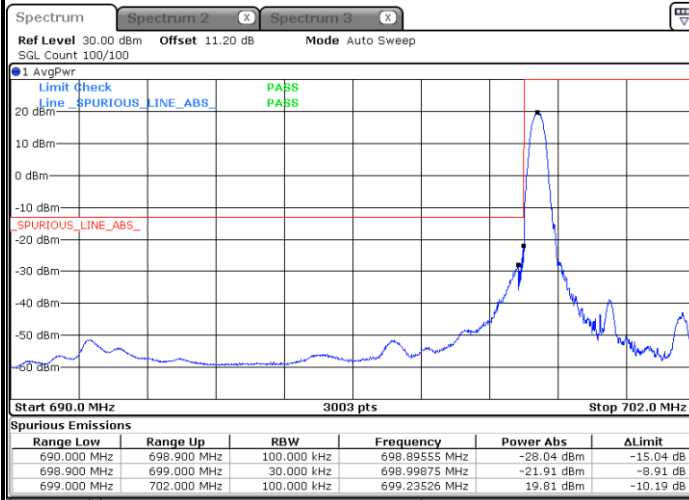


Date: 25 SEP 2020 01:33:09



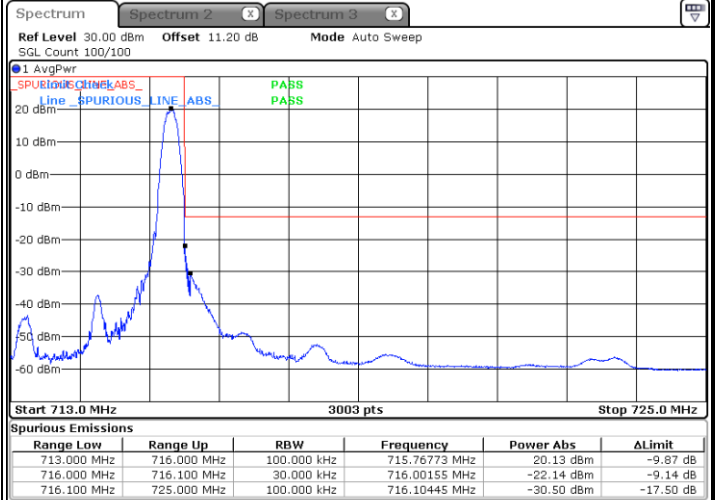
LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



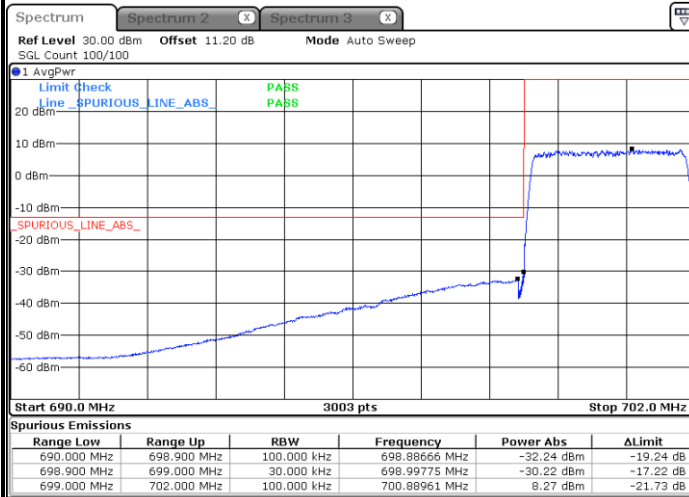
Date: 25 SEP 2020 01:38:58

Highest Band Edge / 1 RB



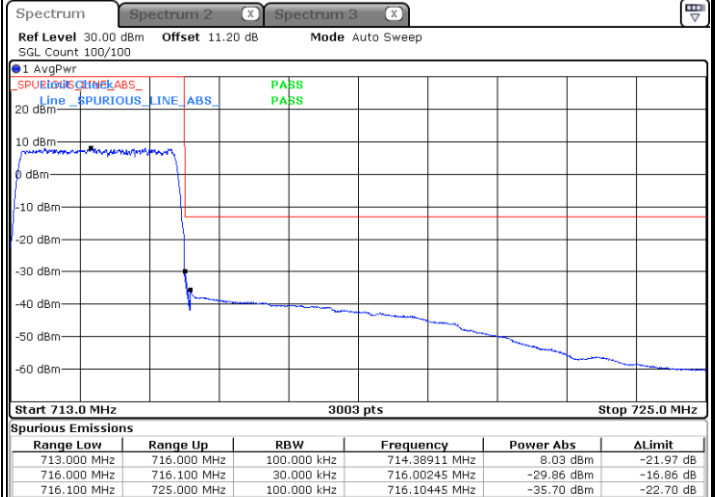
Date: 25 SEP 2020 01:43:07

Lowest Band Edge / Full RB



Date: 25 SEP 2020 01:37:57

Highest Band Edge / Full RB

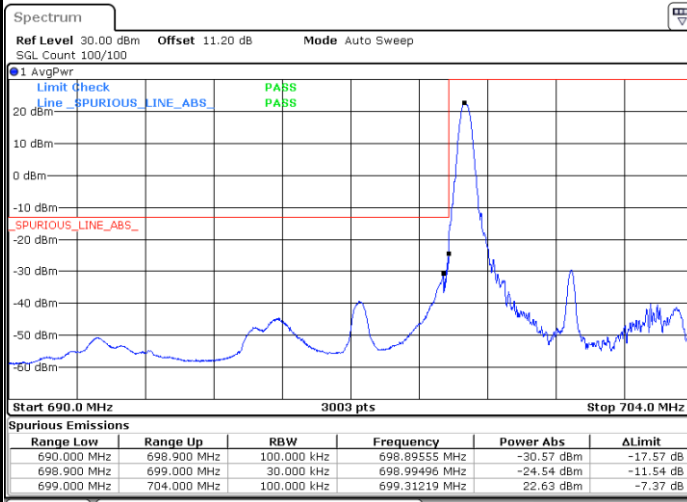


Date: 25 SEP 2020 01:42:06



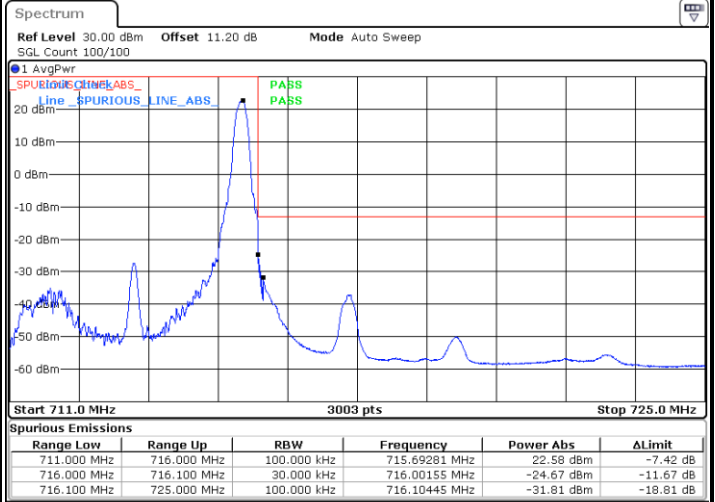
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



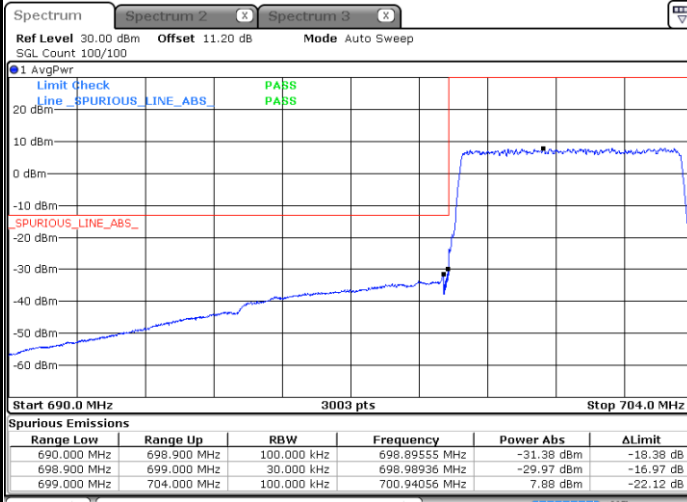
Date: 25 SEP 2020 19:13:31

Highest Band Edge / 1 RB



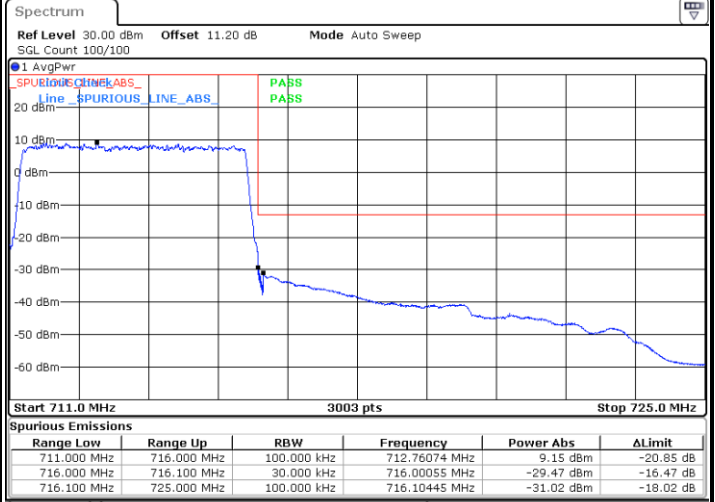
Date: 25 SEP 2020 19:20:48

Lowest Band Edge / Full RB



Date: 25 SEP 2020 01:52:54

Highest Band Edge / Full RB

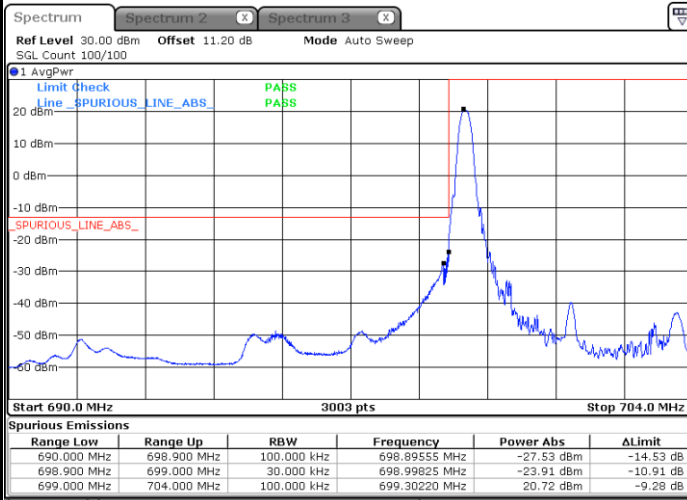


Date: 25 SEP 2020 19:18:47



LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



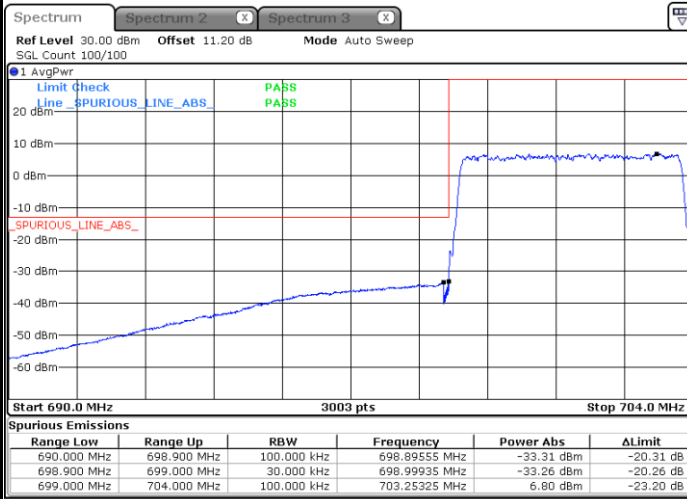
Date: 25 SEP 2020 01:54:55

Highest Band Edge / 1 RB



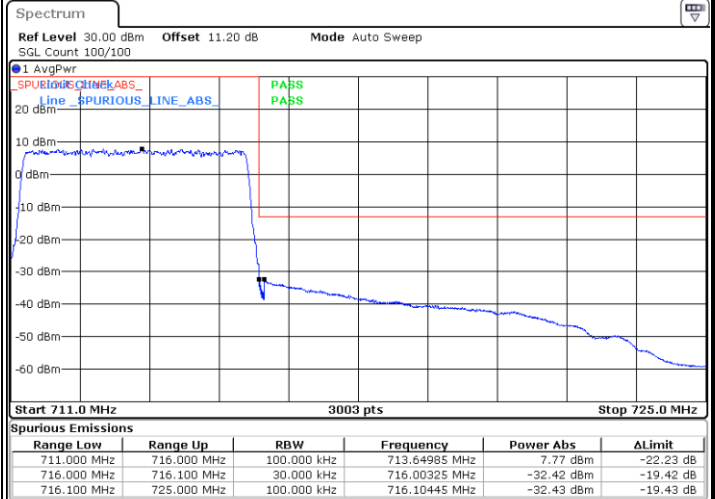
Date: 25 SEP 2020 19:21:49

Lowest Band Edge / Full RB



Date: 25 SEP 2020 01:53:55

Highest Band Edge / Full RB

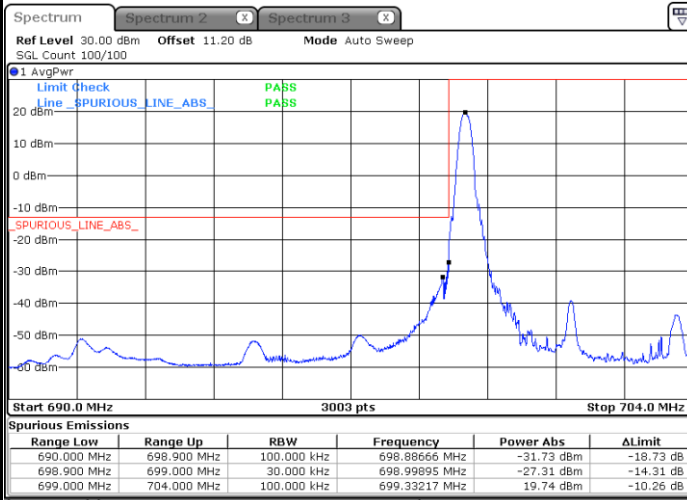


Date: 25 SEP 2020 19:19:48



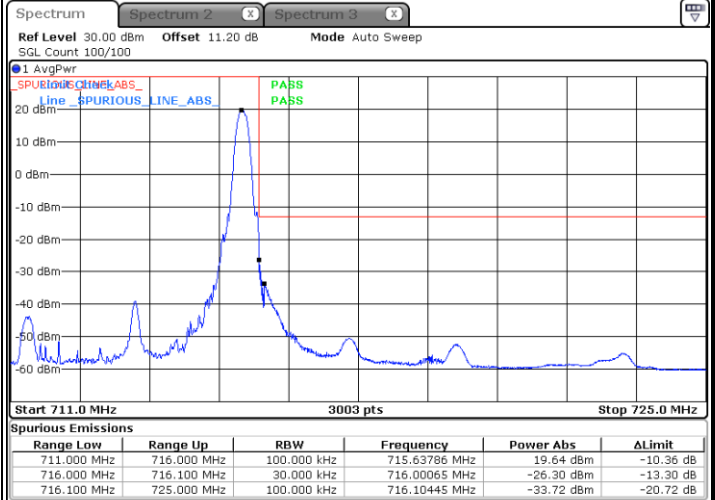
LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1RB



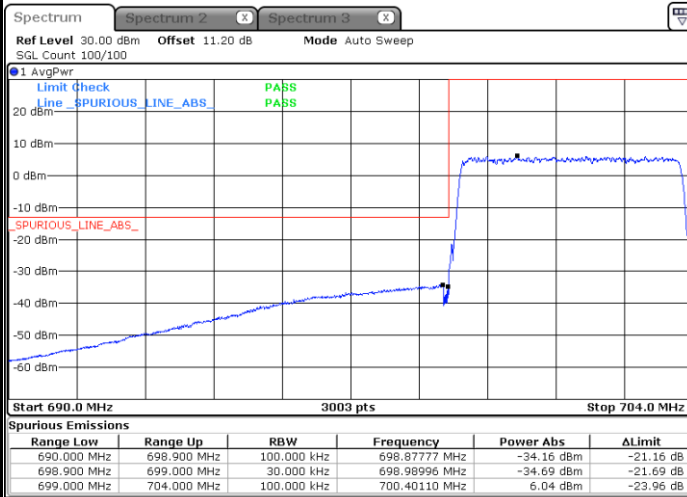
Date: 25 SEP 2020 01:46:15

Highest Band Edge / 1 RB



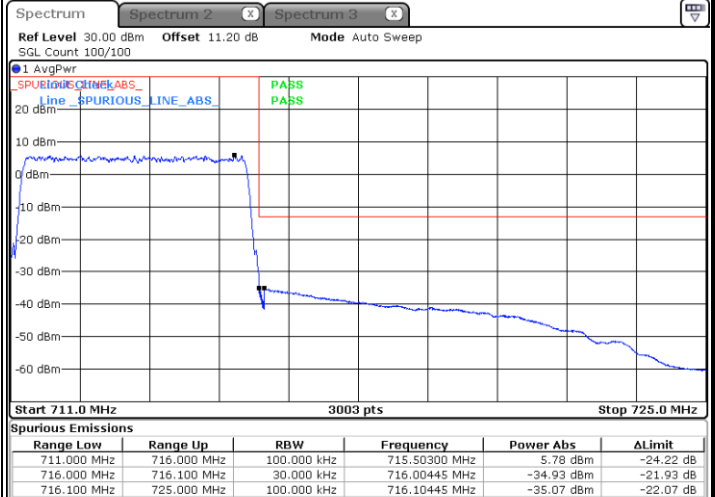
Date: 25 SEP 2020 01:50:24

Lowest Band Edge / Full RB



Date: 25 SEP 2020 01:45:14

Highest Band Edge / Full RB

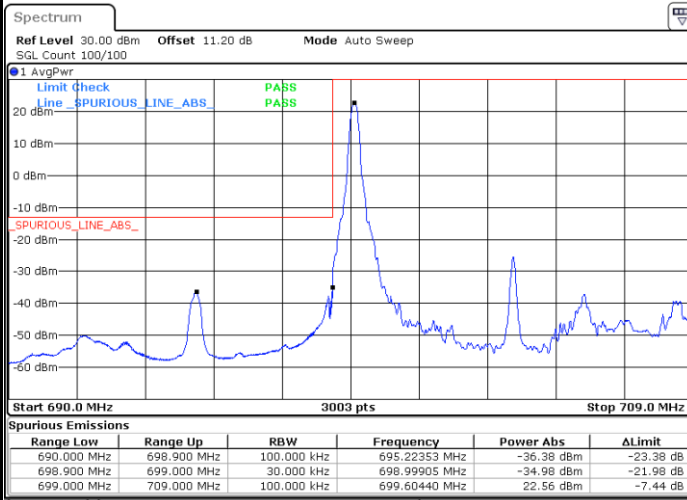


Date: 25 SEP 2020 01:49:23



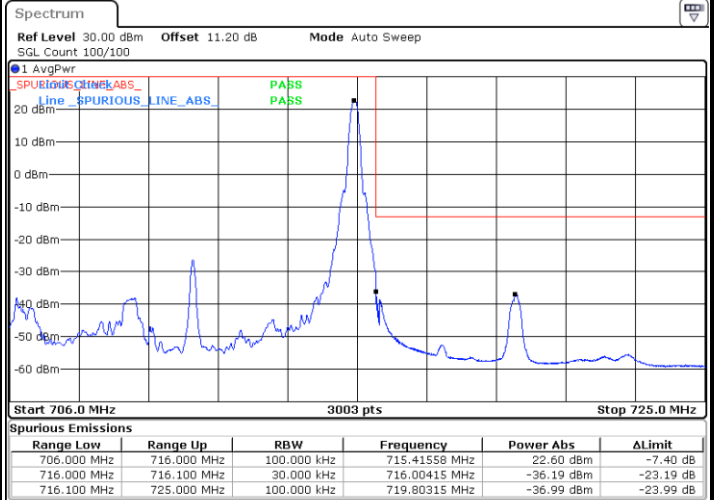
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



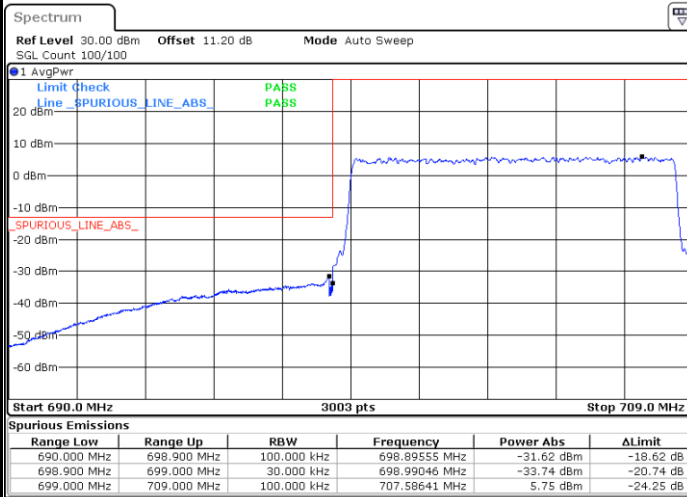
Date: 25 SEP 2020 19:28:01

Highest Band Edge / 1 RB



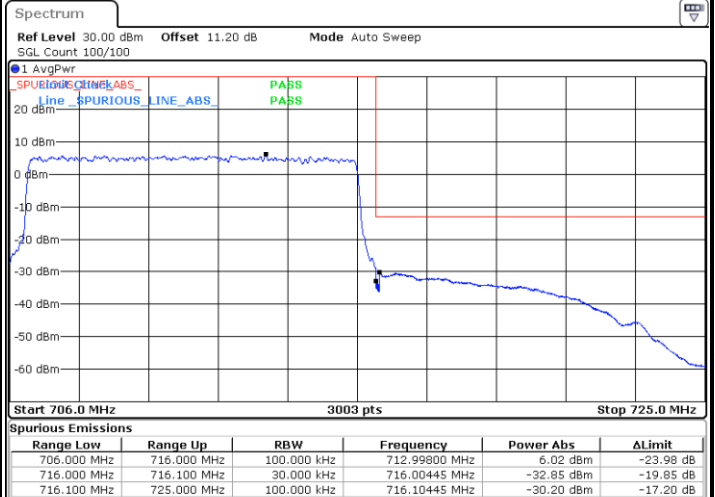
Date: 25 SEP 2020 19:36:19

Lowest Band Edge / Full RB



Date: 25 SEP 2020 19:24:59

Highest Band Edge / Full RB

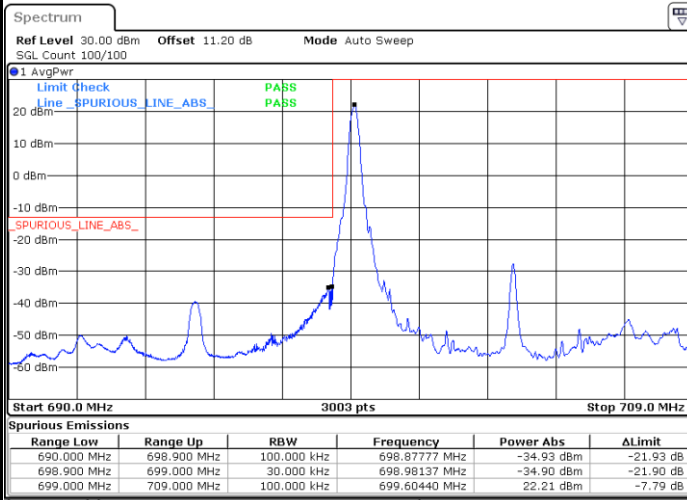


Date: 25 SEP 2020 19:33:17



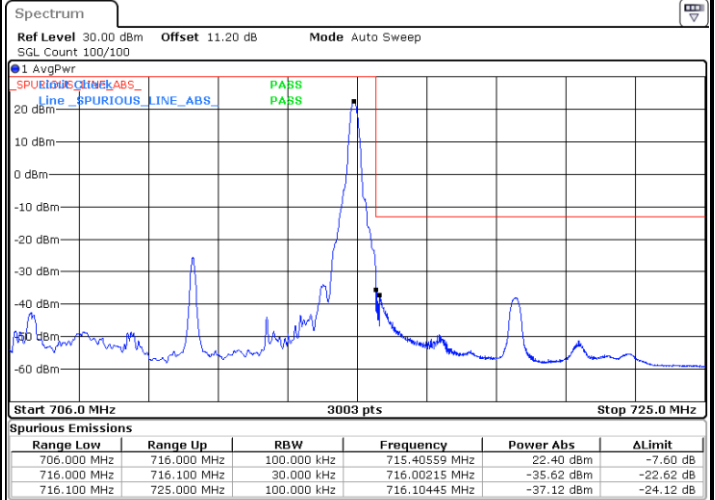
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



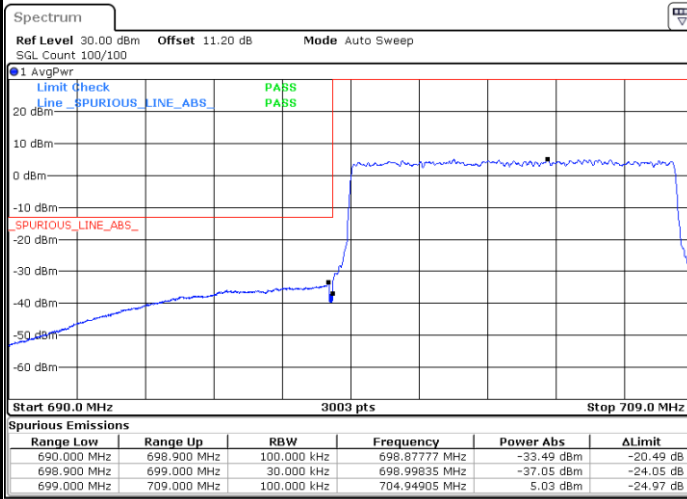
Date: 25 SEP 2020 19:27:01

Highest Band Edge / 1 RB



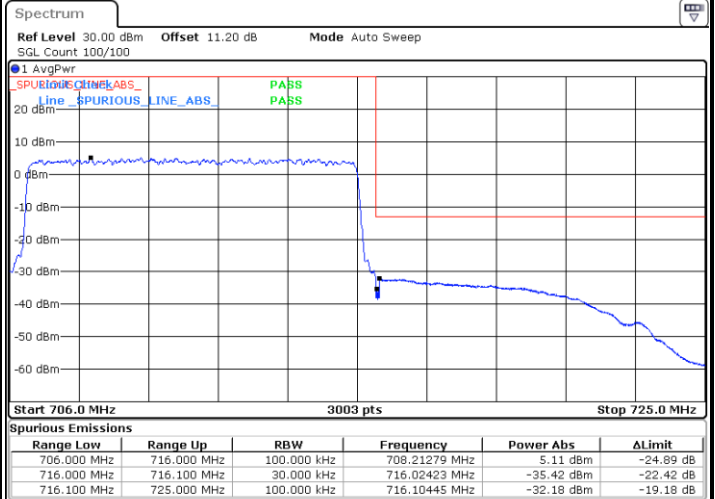
Date: 25 SEP 2020 19:35:18

Lowest Band Edge / Full RB



Date: 25 SEP 2020 19:26:00

Highest Band Edge / Full RB

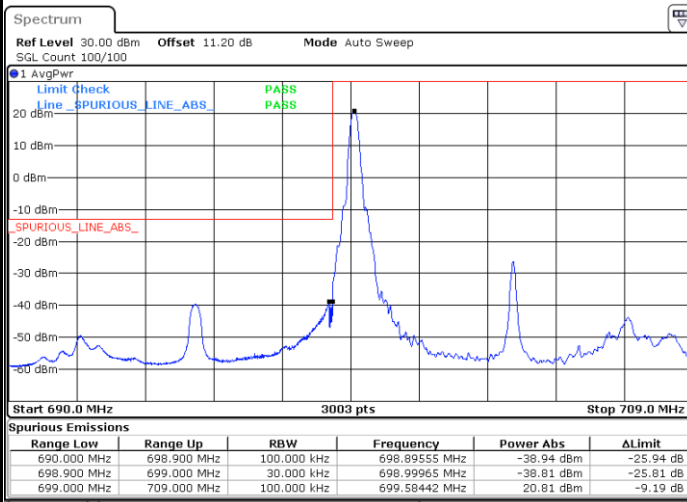


Date: 25 SEP 2020 19:34:18



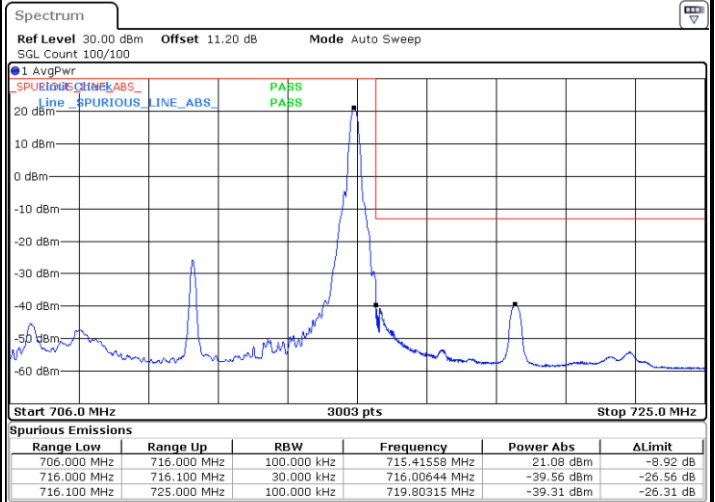
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



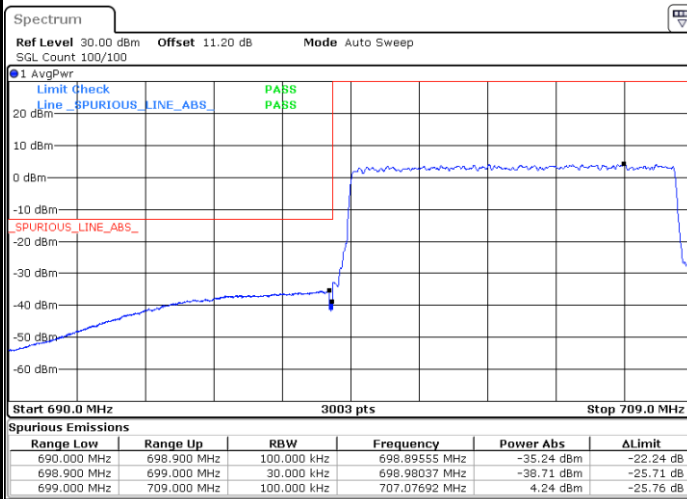
Date: 25 SEP 2020 19:40:05

Highest Band Edge / 1 RB



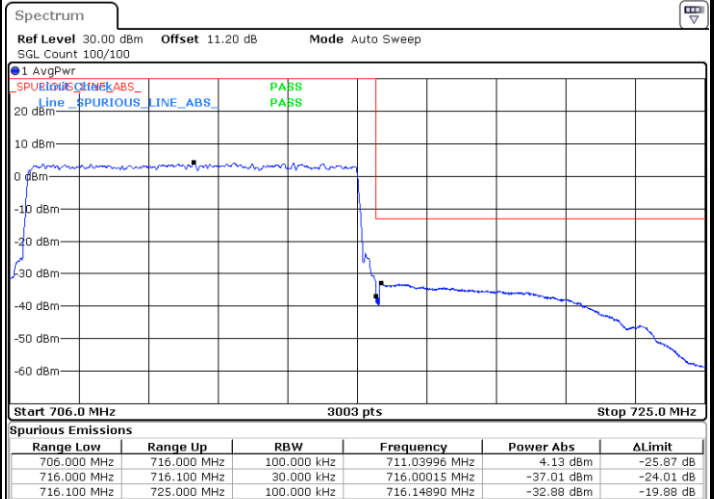
Date: 25 SEP 2020 19:44:14

Lowest Band Edge / Full RB



Date: 25 SEP 2020 19:39:05

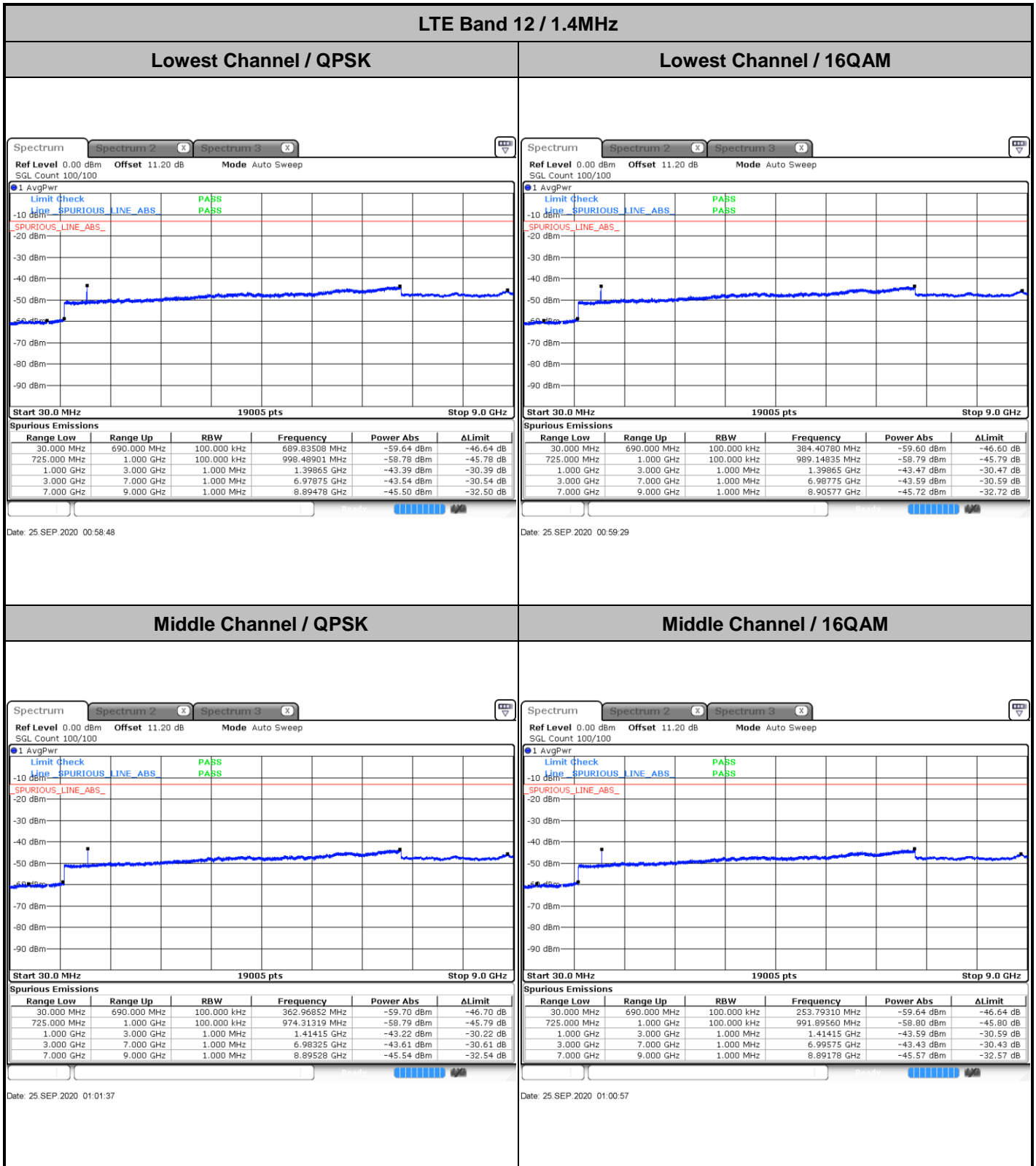
Highest Band Edge / Full RB



Date: 25 SEP 2020 19:43:13



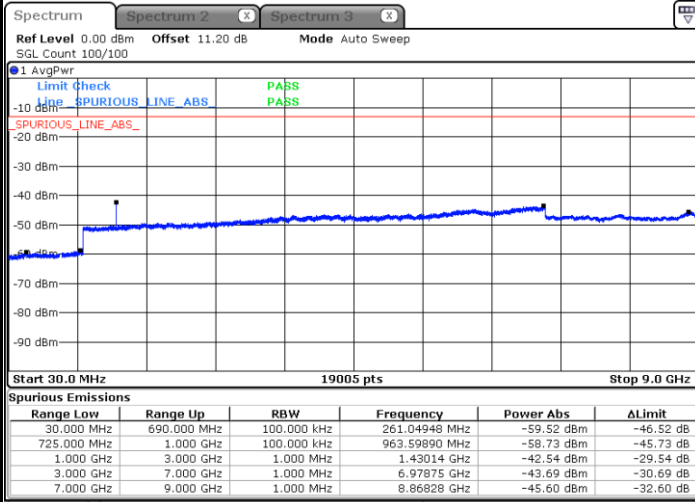
Conducted Spurious Emission





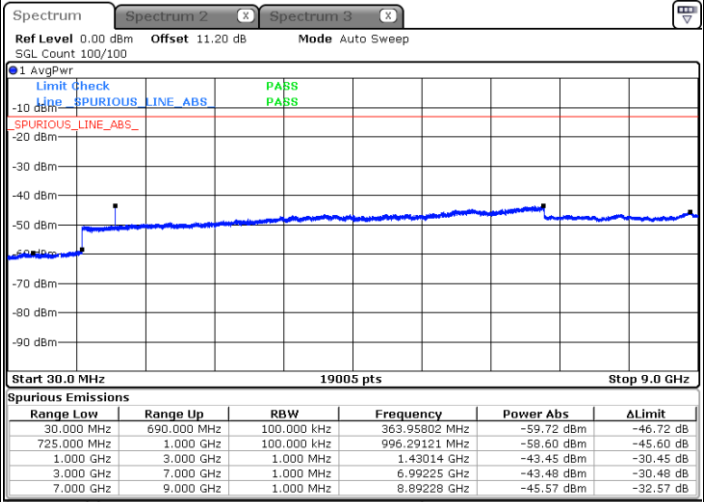
LTE Band 12 / 1.4MHz

Highest Channel / QPSK



Date: 25 SEP 2020 01:07:09

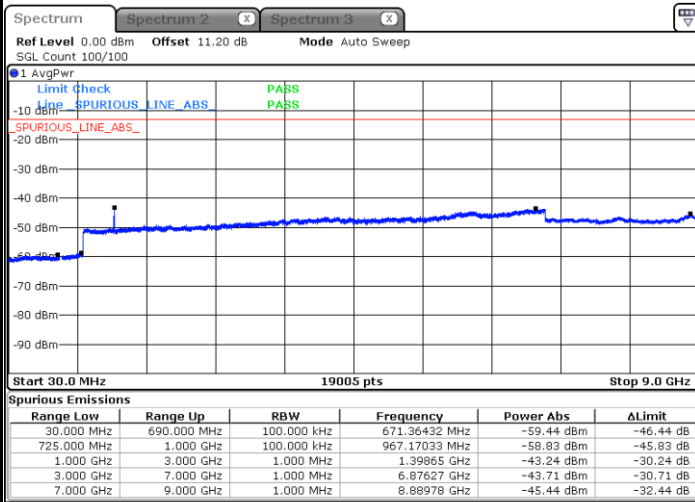
Highest Channel / 16QAM



Date: 25 SEP 2020 01:07:50

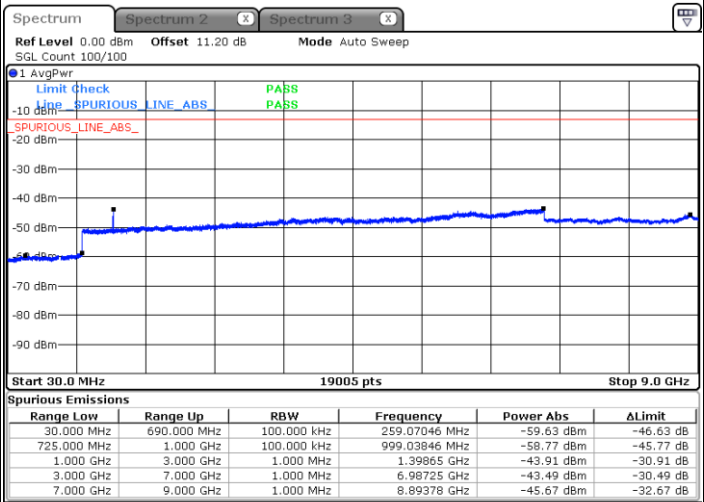
LTE Band 12 / 3MHz

Lowest Channel / QPSK



Date: 25 SEP 2020 01:20:39

Lowest Channel / 16QAM



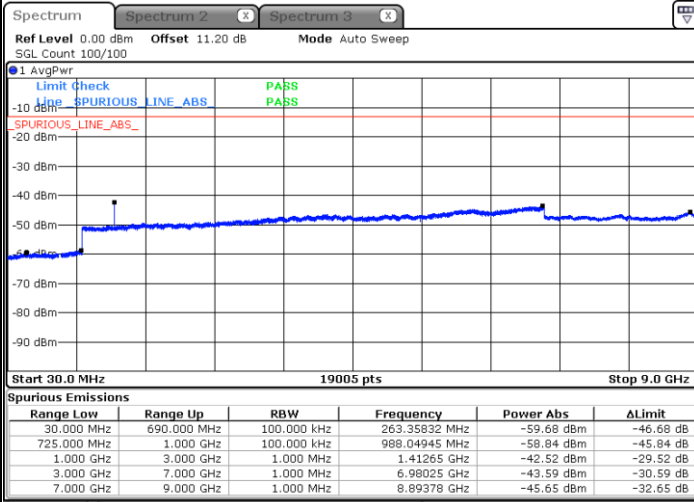
Date: 25 SEP 2020 01:21:20



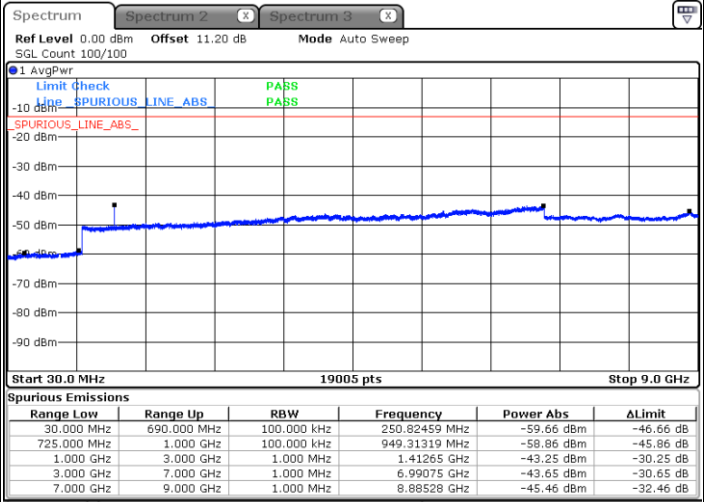
LTE Band 12 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM



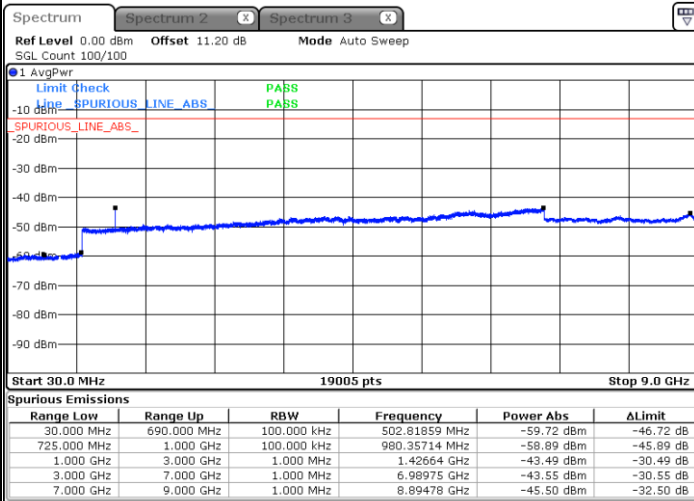
Date: 25 SEP.2020 01:30:20



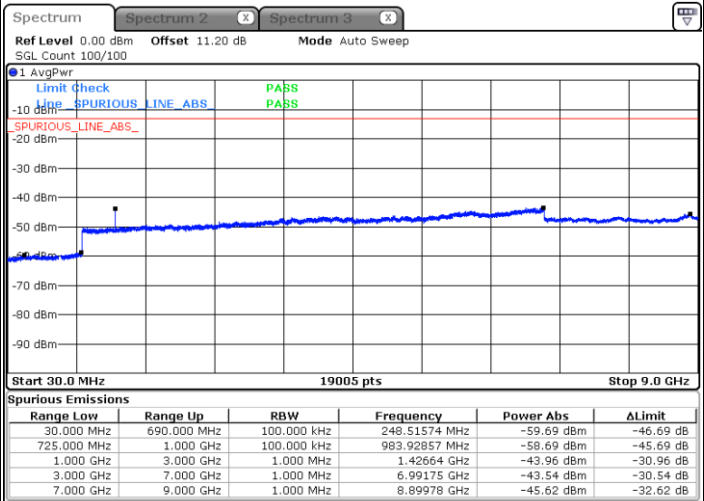
Date: 25 SEP.2020 01:22:47

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 25 SEP.2020 01:35:52



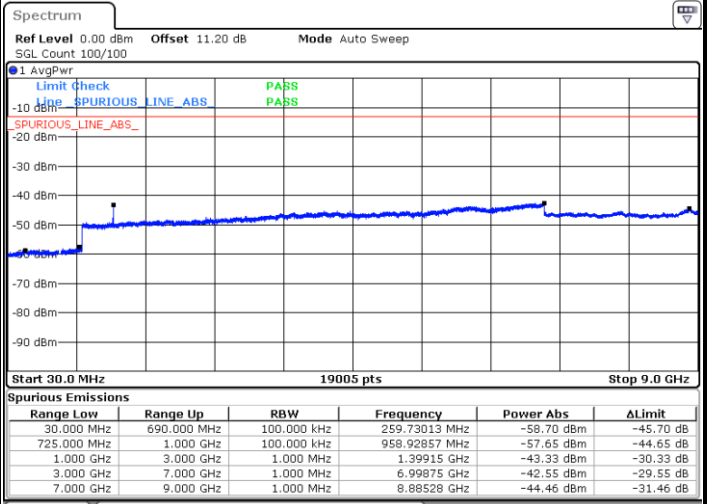
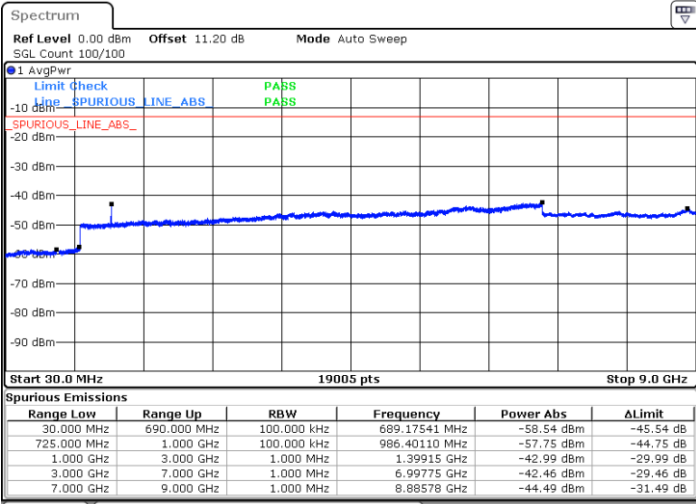
Date: 25 SEP.2020 01:36:33



LTE Band 12 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

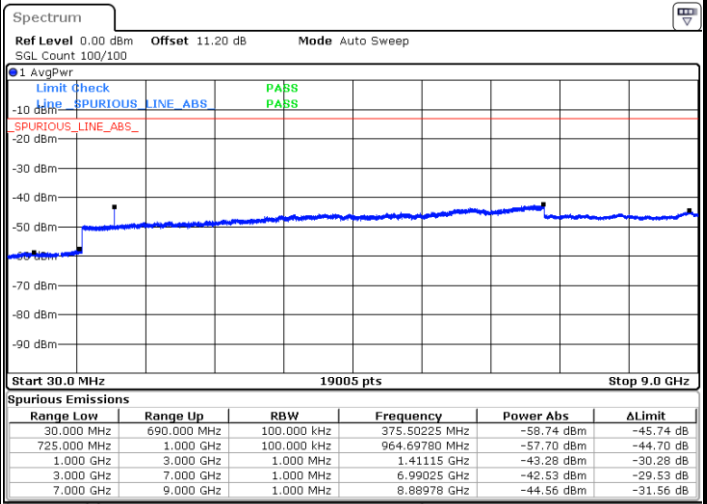
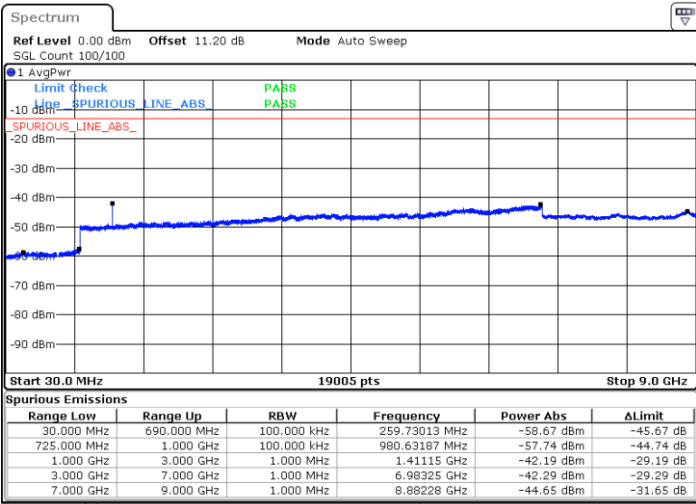


Date: 25 SEP.2020 19:14:13

Date: 25 SEP.2020 19:14:54

Middle Channel / QPSK

Middle Channel / 16QAM

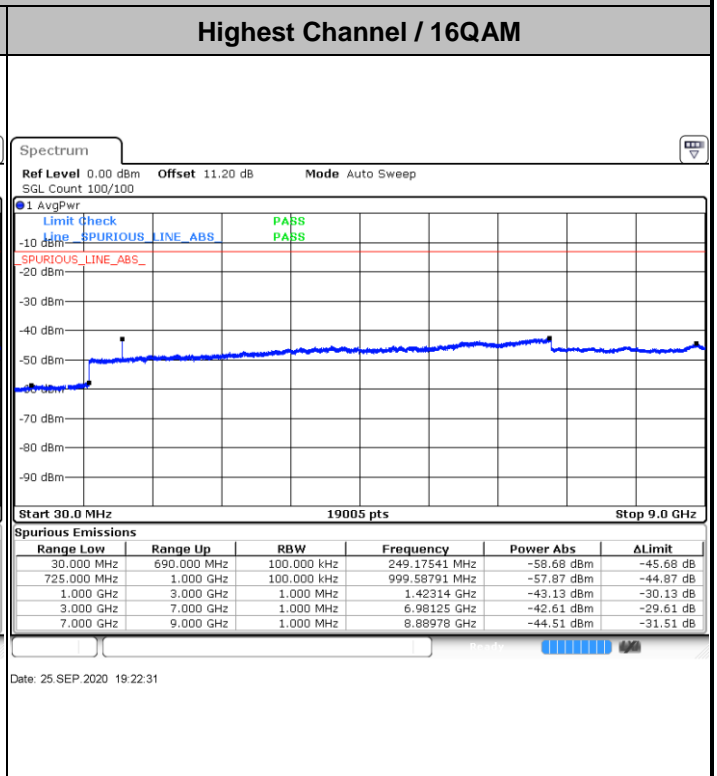
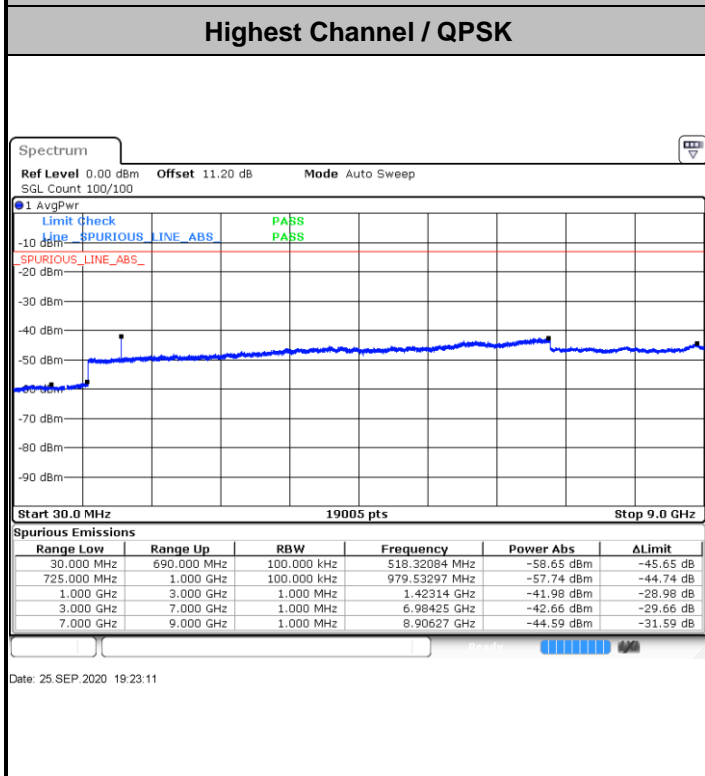


Date: 25 SEP.2020 19:17:00

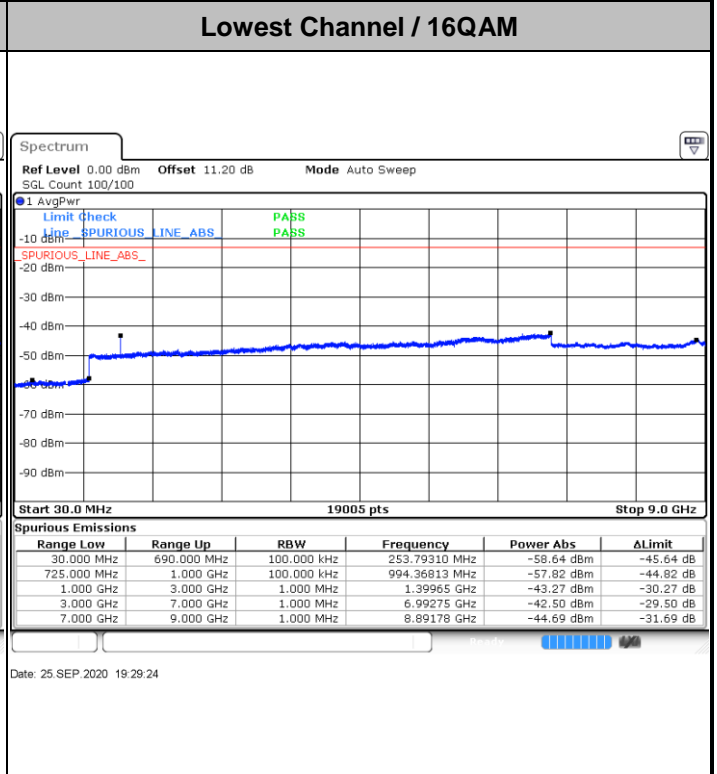
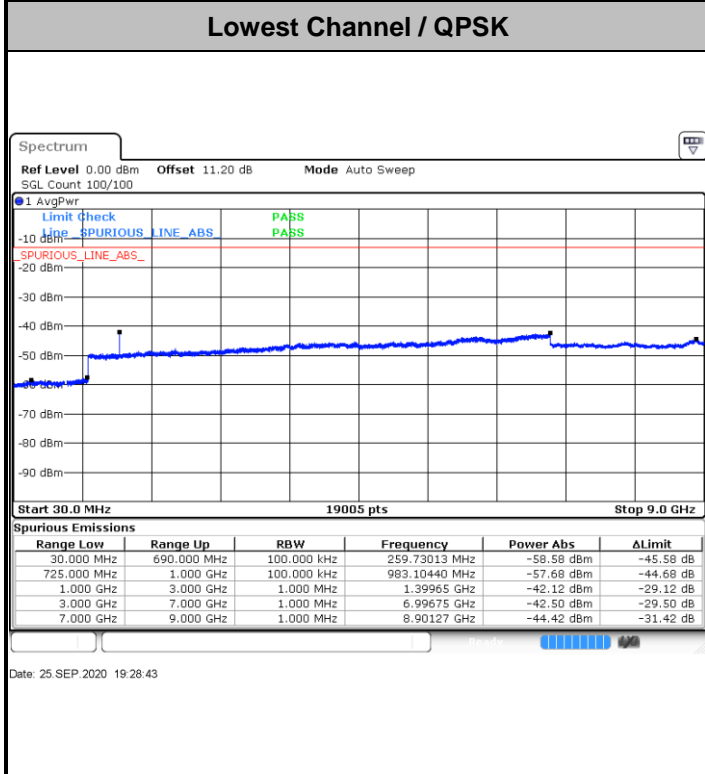
Date: 25 SEP.2020 19:16:20



LTE Band 12 / 5MHz



LTE Band 12 / 10MHz

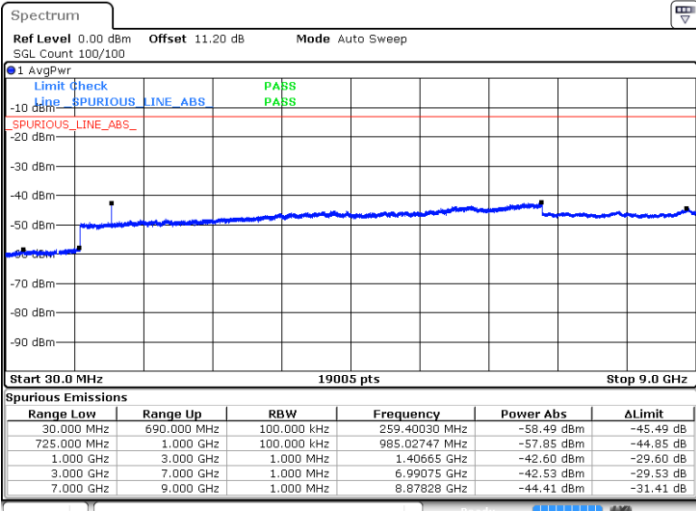




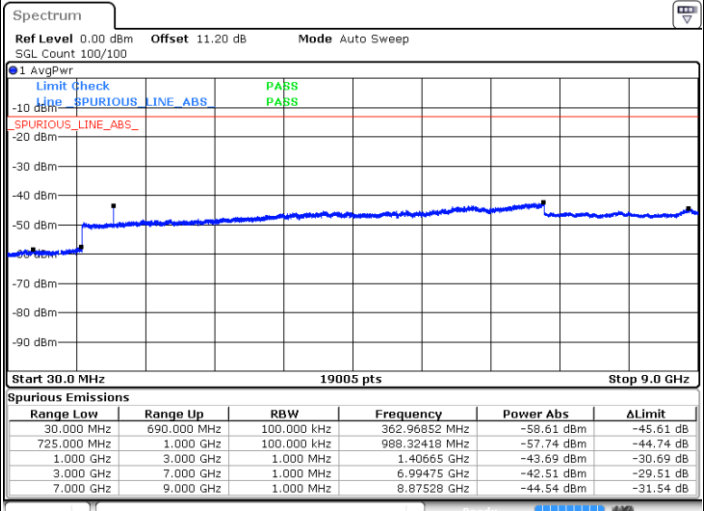
LTE Band 12 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM



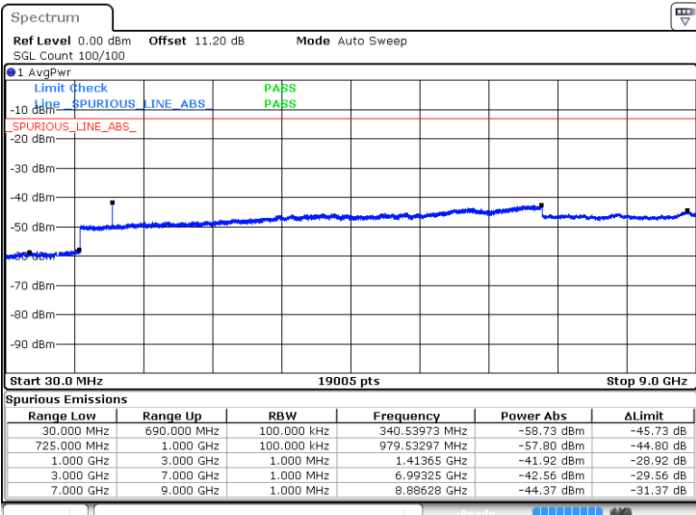
Date: 25 SEP 2020 19:31:30



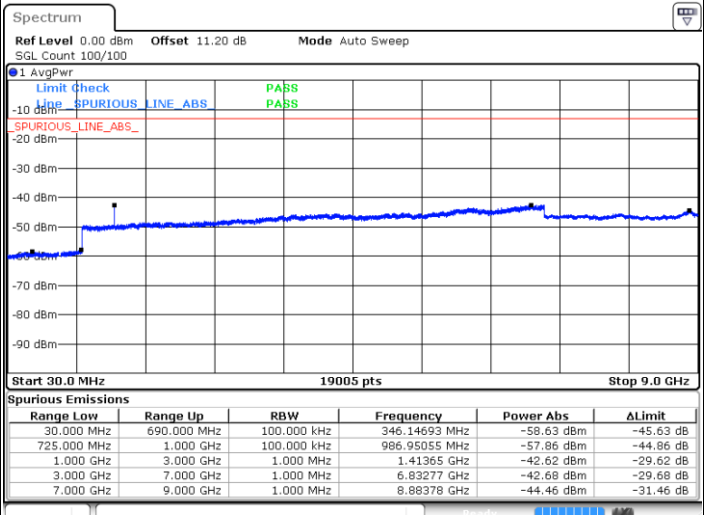
Date: 25 SEP 2020 19:30:49

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 25 SEP 2020 19:37:00



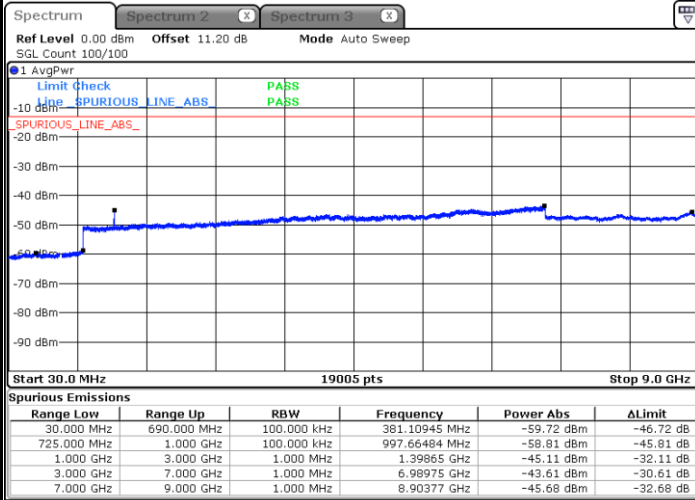
Date: 25 SEP 2020 19:37:41



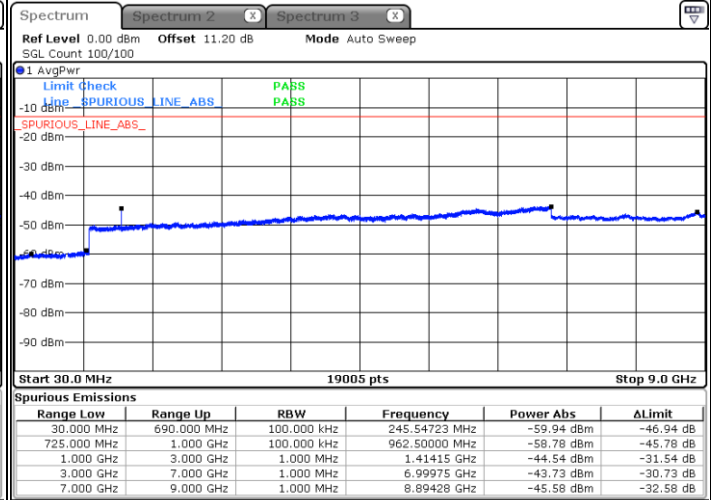
LTE Band 12 / 1.4MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

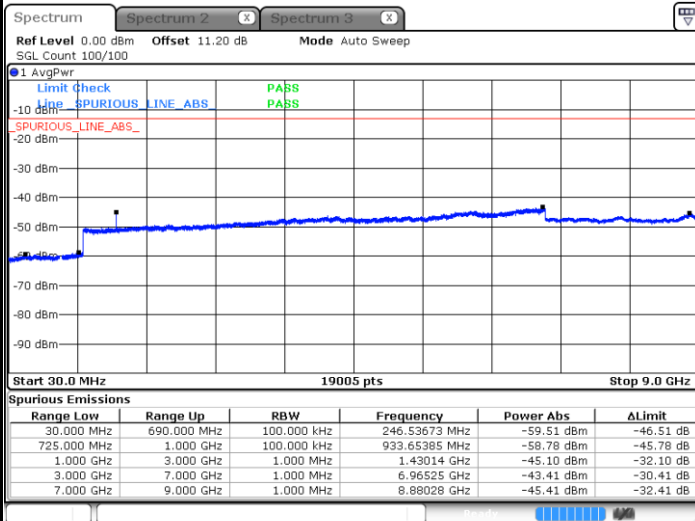


Date: 25 SEP 2020 01:10:56



Date: 25 SEP 2020 01:11:59

Highest Channel / 64QAM



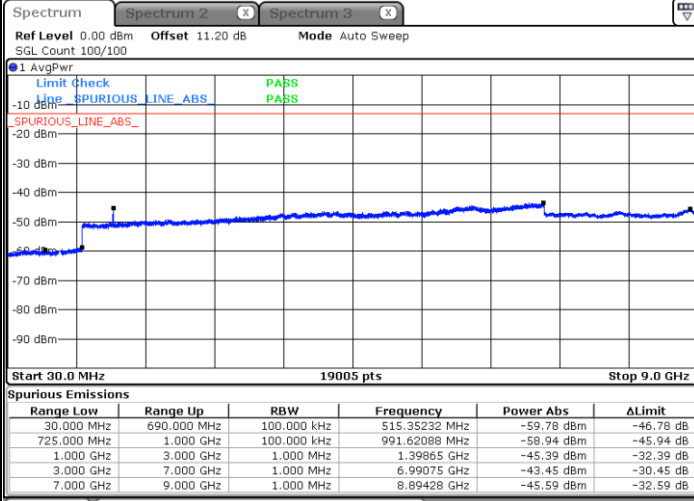
Date: 25 SEP 2020 01:15:06



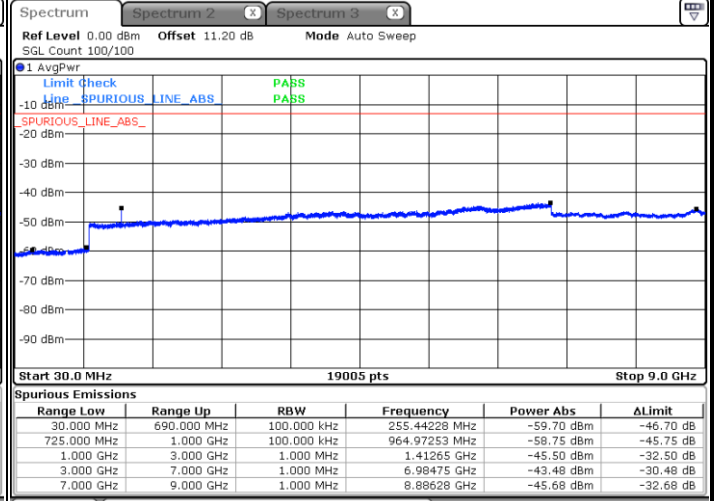
LTE Band 12 / 3MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

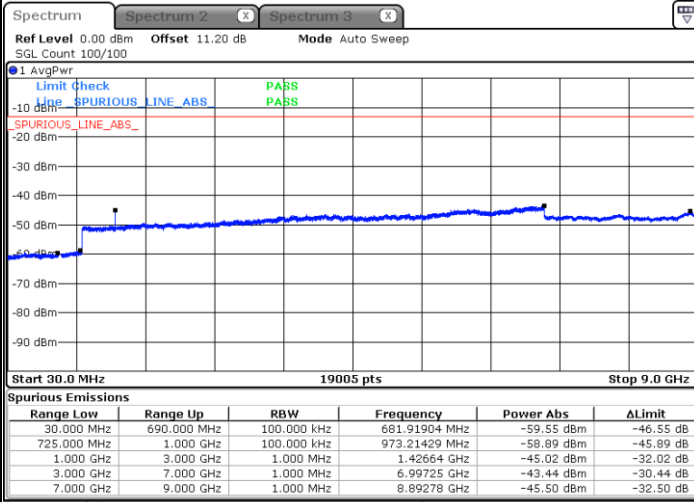


Date: 25 SEP 2020 01:39:39



Date: 25 SEP 2020 01:40:43

Highest Channel / 64QAM



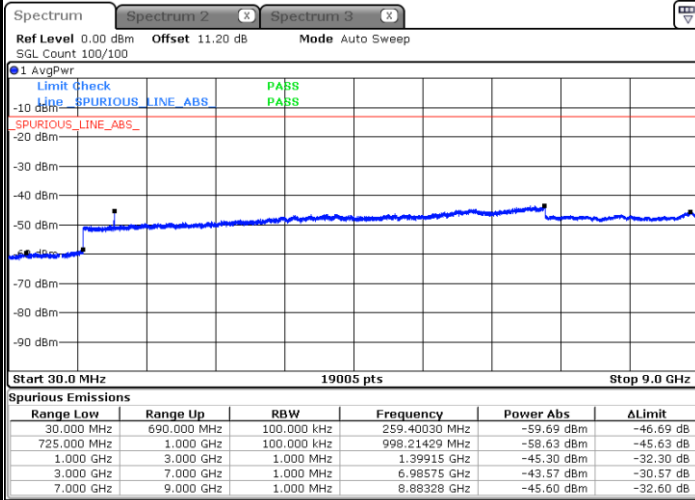
Date: 25 SEP 2020 01:43:48



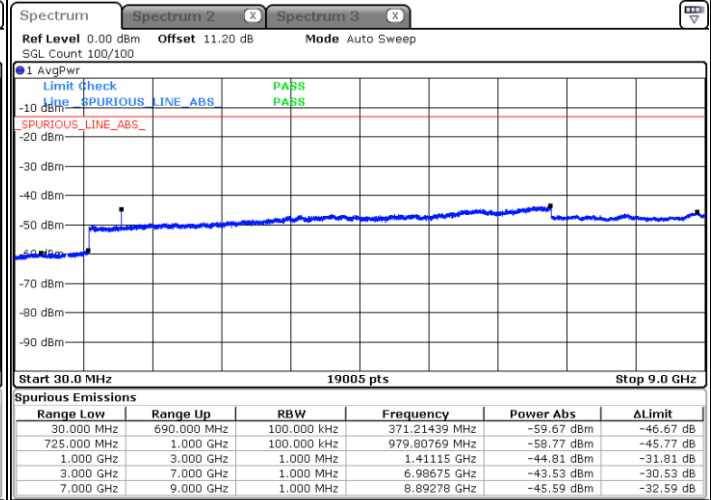
LTE Band 12 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

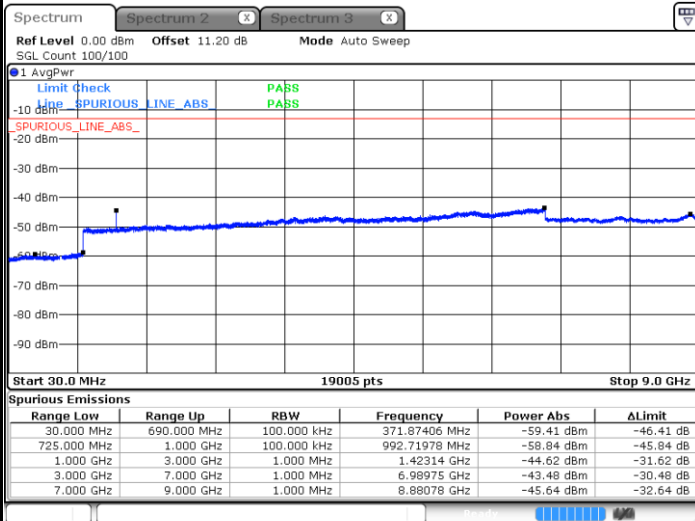


Date: 25 SEP 2020 01:46:56



Date: 25 SEP 2020 01:48:00

Highest Channel / 64QAM



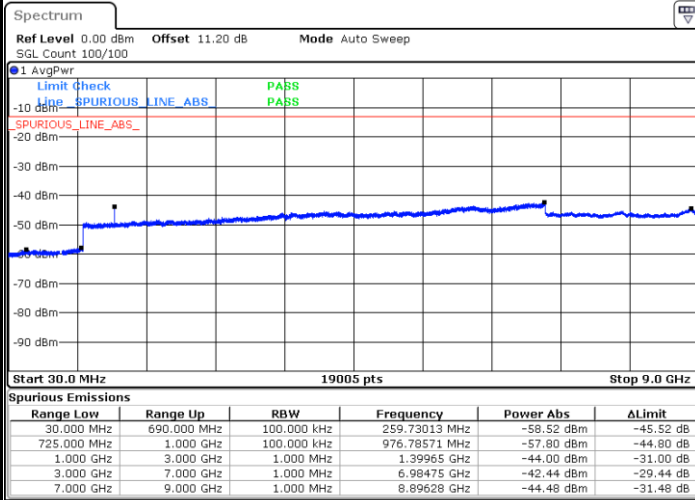
Date: 25 SEP 2020 01:51:05



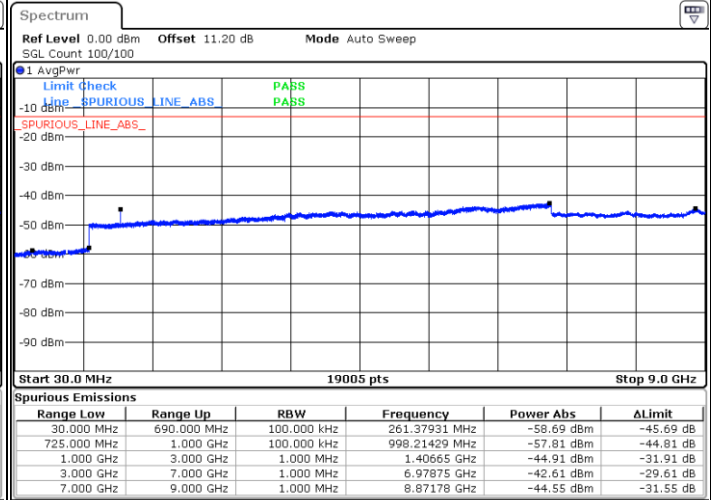
LTE Band 12 / 10MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

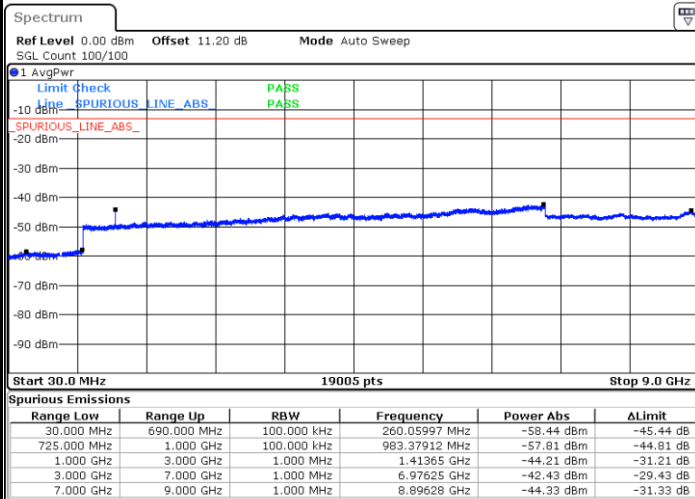


Date: 25 SEP.2020 19:40:47



Date: 25 SEP.2020 19:41:50

Highest Channel / 64QAM



Date: 25 SEP.2020 19:44:55



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	0.0123	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0073	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0068	
0	Normal Voltage	0.0172	
-10	Normal Voltage	0.0133	
-20	Normal Voltage	0.0122	
-30	Normal Voltage	0.0045	
20	Maximum Voltage	0.0021	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0033	

Note:

- 1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.39 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

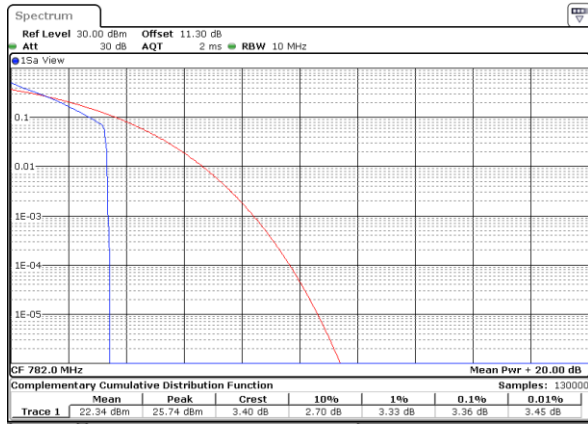
Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	3.36	4.64	4.35	5.88	
Highest CH	-	-	-	-	
Mode	LTE Band 13 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	-	-	-	-	PASS
Middle CH	5.04	6.43	-	-	
Highest CH	-	-	-	-	



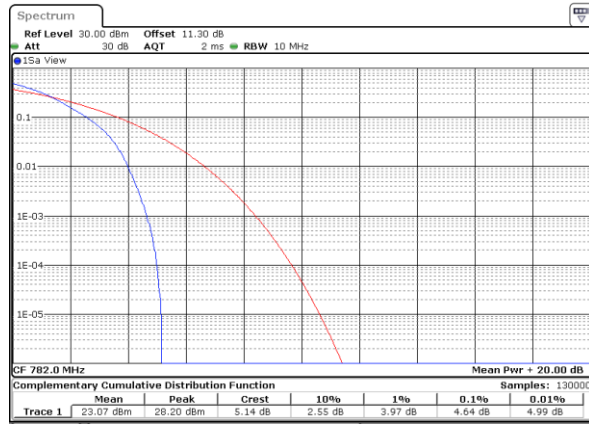
LTE Band 13 / 10MHz / QPSK

Middle Channel / 1RB



Date: 25 SEP 2020 21:41:06

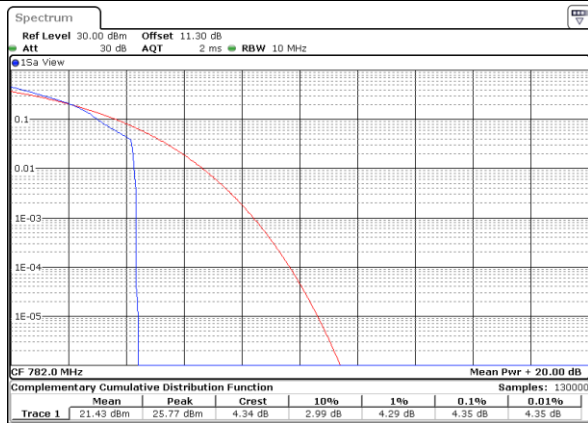
Middle Channel / Full RB



Date: 25 SEP 2020 21:41:15

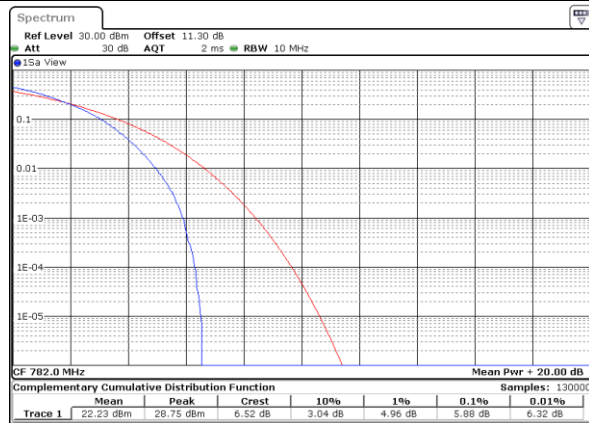
LTE Band 13 / 10MHz / 16QAM

Middle Channel / 1RB



Date: 25 SEP 2020 21:40:47

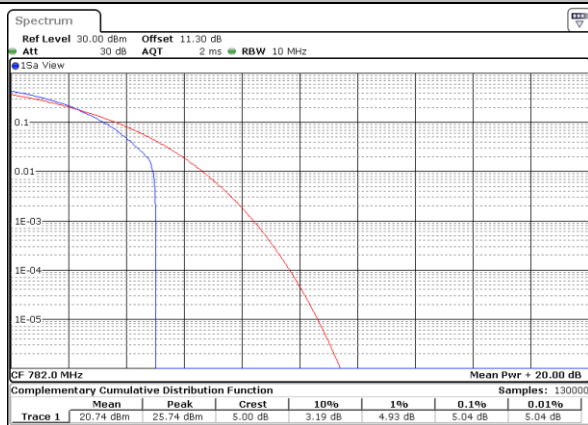
Middle Channel / Full RB



Date: 25 SEP 2020 21:40:56

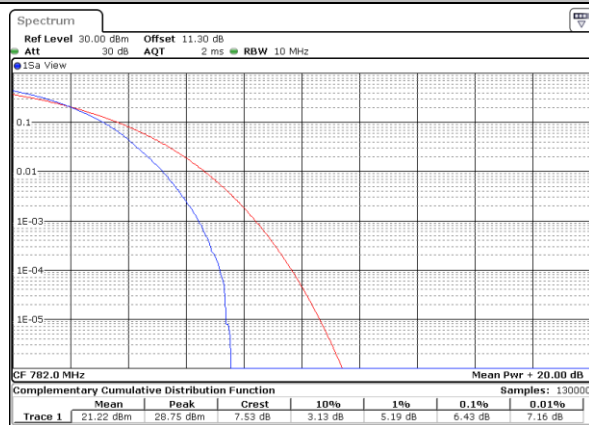
LTE Band 13 / 10MHz / 64QAM

Middle Channel / 1RB



Date: 25 SEP 2020 21:40:28

Middle Channel / Full RB



Date: 25 SEP 2020 21:40:37



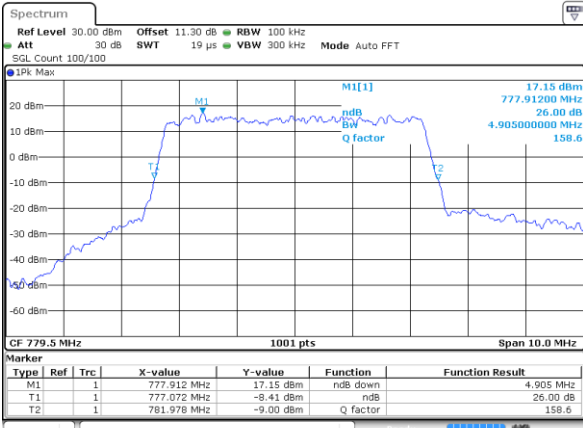
26dB Bandwidth

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	-	-	-	-	4.91	4.91	-	-	-	-	-	-
Middle CH	-	-	-	-	4.88	4.94	9.63	9.77	-	-	-	-
Highest CH	-	-	-	-	4.91	4.88	-	-	-	-	-	-
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.87	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.87	-	9.73	-	-	-	-	-
Highest CH	-	-	-	-	4.91	-	-	-	-	-	-	-



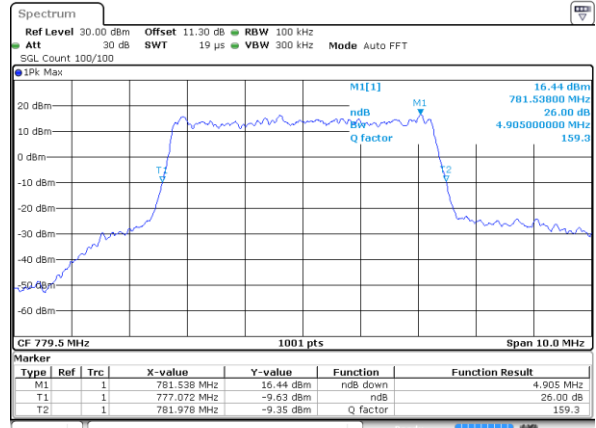
LTE Band 13

Lowest Channel / 5MHz / QPSK



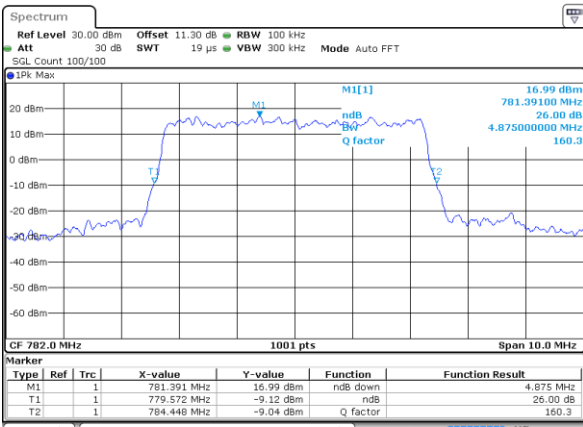
Date: 25 SEP 2020 20:44:38

Lowest Channel / 5MHz / 16QAM



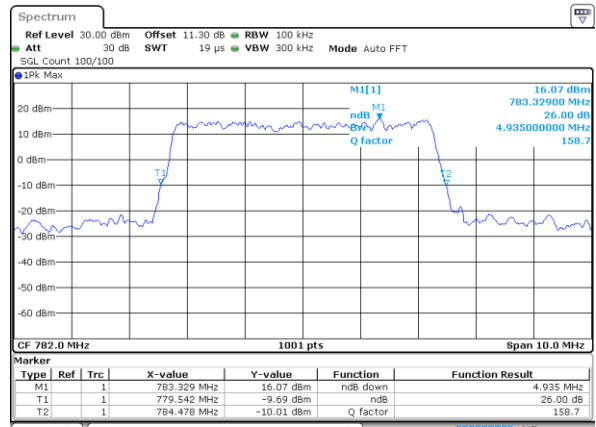
Date: 25 SEP 2020 20:44:26

Middle Channel / 5MHz / QPSK



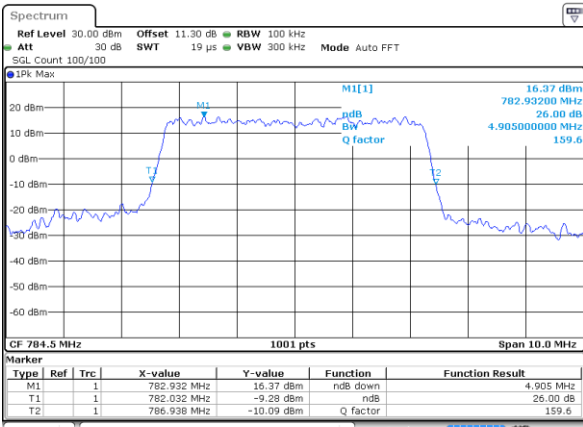
Date: 25 SEP 2020 20:54:14

Middle Channel / 5MHz / 16QAM



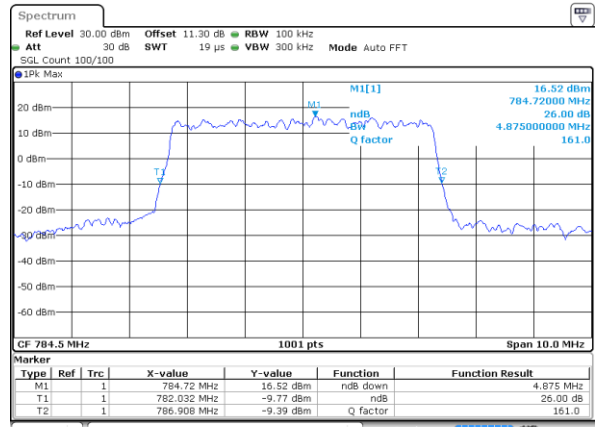
Date: 25 SEP 2020 20:54:25

Highest Channel / 5MHz / QPSK



Date: 25 SEP 2020 20:55:35

Highest Channel / 5MHz / 16QAM

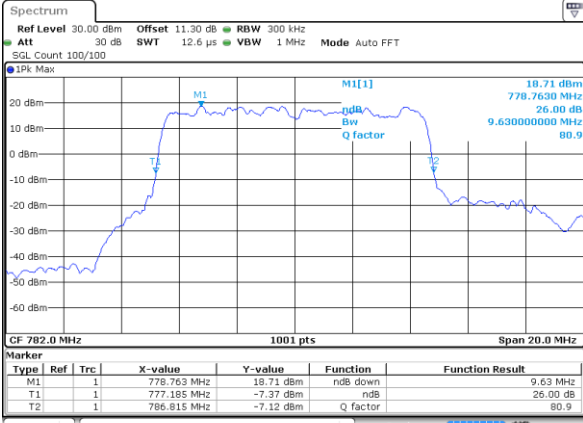


Date: 25 SEP 2020 20:55:24



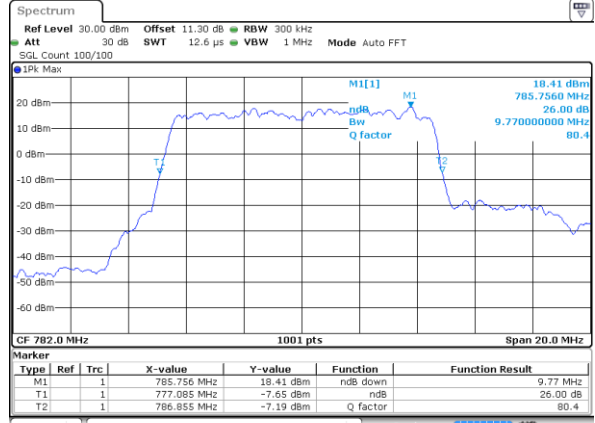
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 25 SEP 2020 21:14:20

Middle Channel / 10MHz / 16QAM

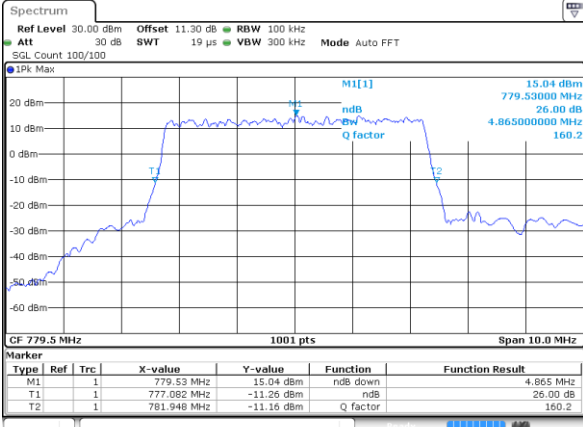


Date: 25 SEP 2020 21:14:09



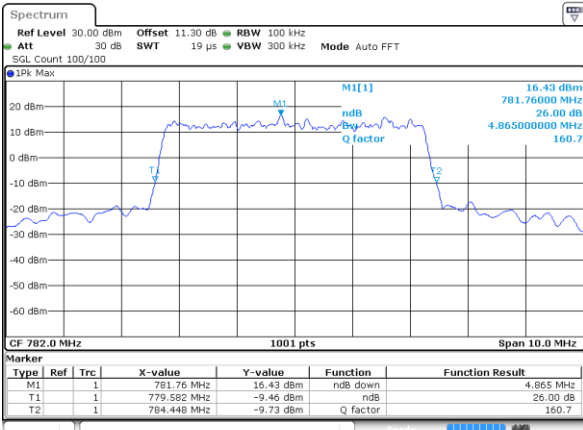
LTE Band 13

Lowest Channel / 5MHz / 64QAM



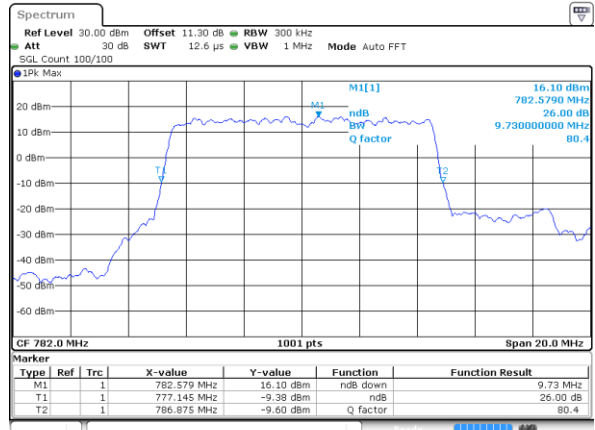
Date: 25 SEP 2020 21:04:04

Middle Channel / 5MHz / 64QAM



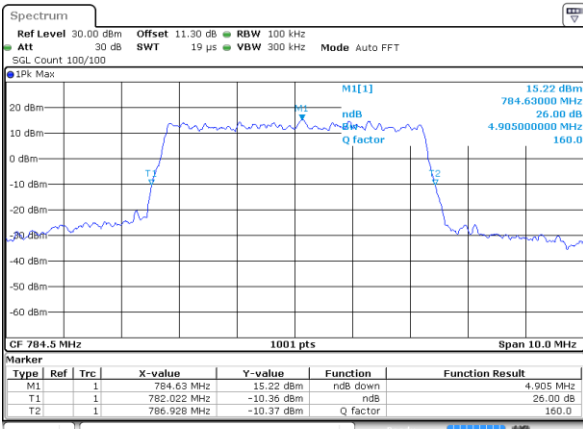
Date: 25 SEP 2020 21:08:57

Middle Channel / 10MHz / 64QAM



Date: 25 SEP 2020 21:26:03

Highest Channel / 5MHz / 64QAM



Date: 25 SEP 2020 21:09:32



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	-	-	-	-	4.49	4.48	-	-	-	-	-	-
Middle CH	-	-	-	-	4.49	4.49	8.99	8.97	-	-	-	-
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	-	-	-	-	4.49	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.50	-	9.05	-	-	-	-	-
Highest CH	-	-	-	-	4.50	-	-	-	-	-	-	-