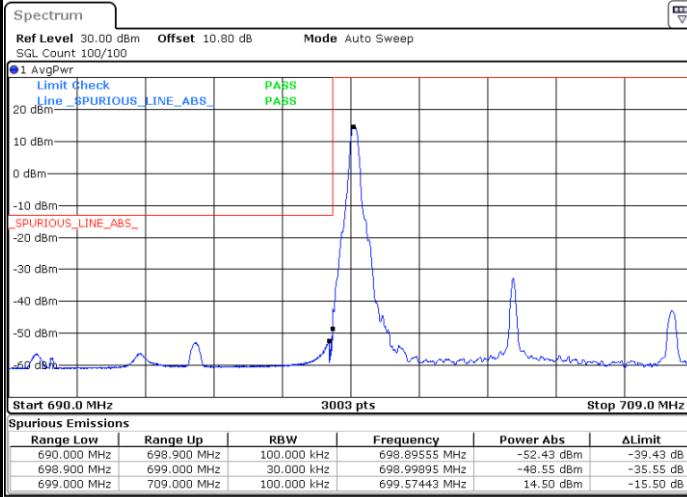




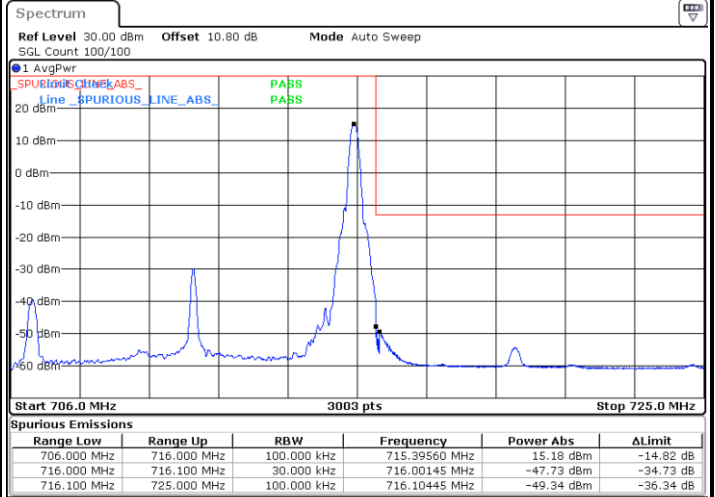
LTE Band 12 / 10MHz / 256QAM

Lowest Band Edge / 1 RB



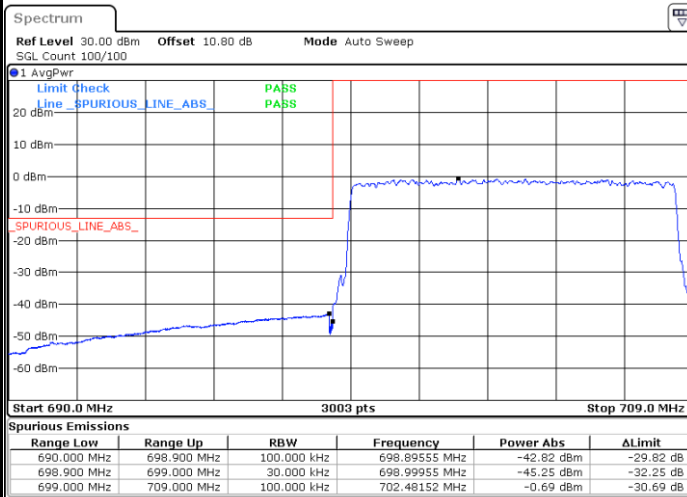
Date: 28.SEP.2020 09:36:26

Highest Band Edge / 1 RB



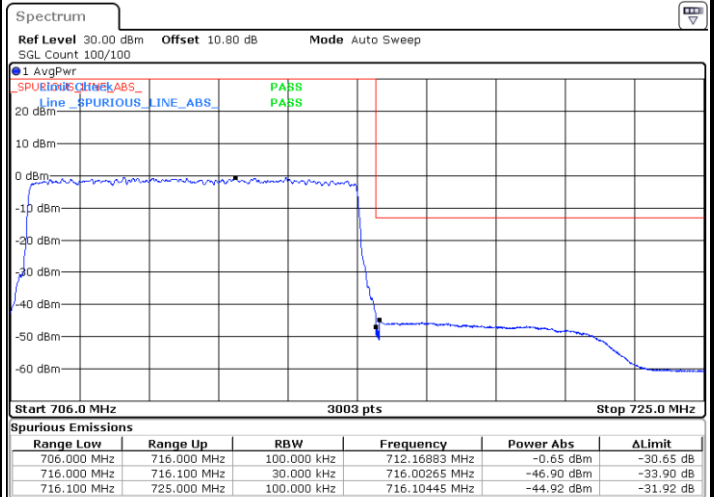
Date: 28.SEP.2020 09:38:44

Lowest Band Edge / Full RB



Date: 28.SEP.2020 09:35:26

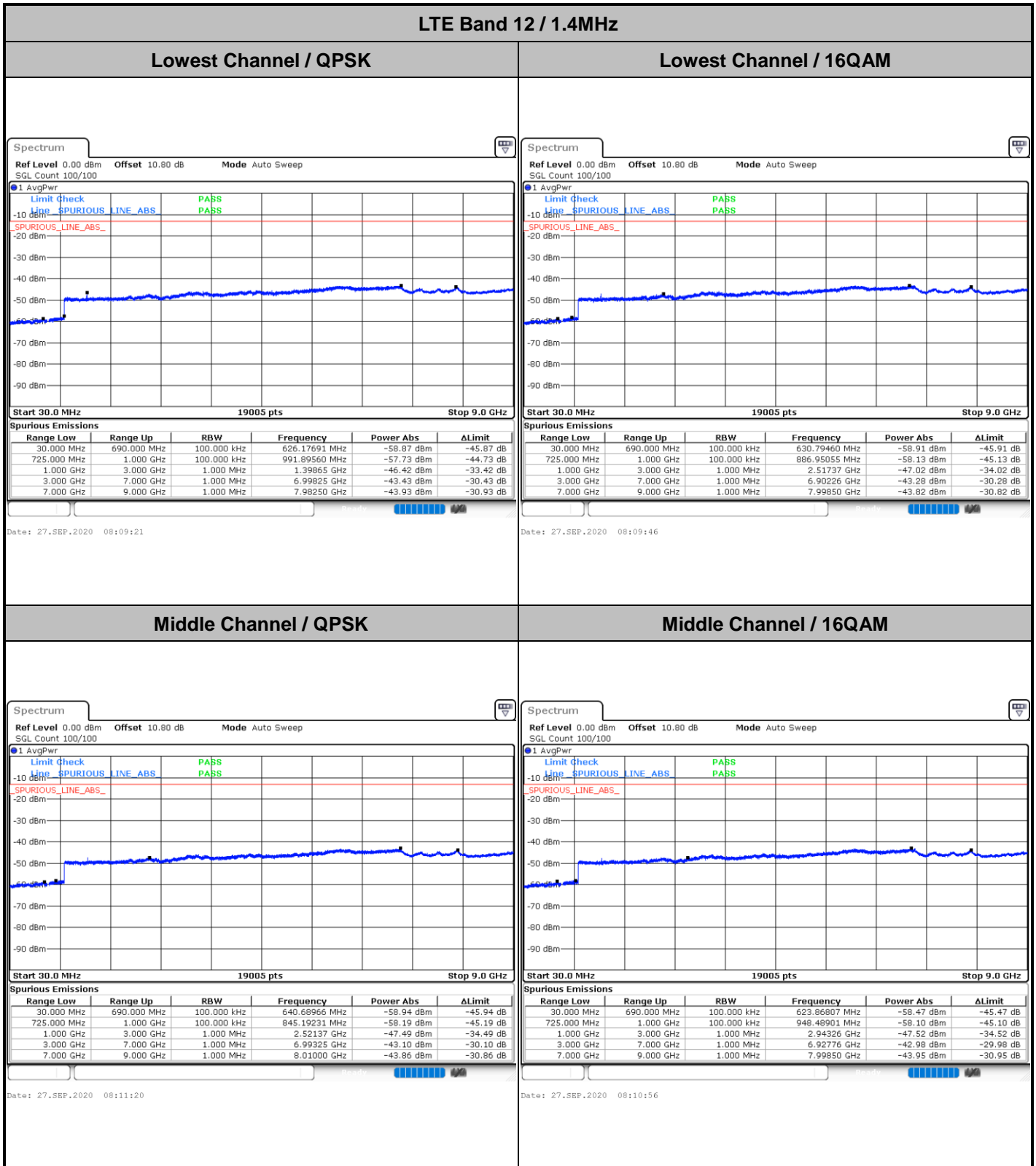
Highest Band Edge / Full RB



Date: 28.SEP.2020 09:37:27



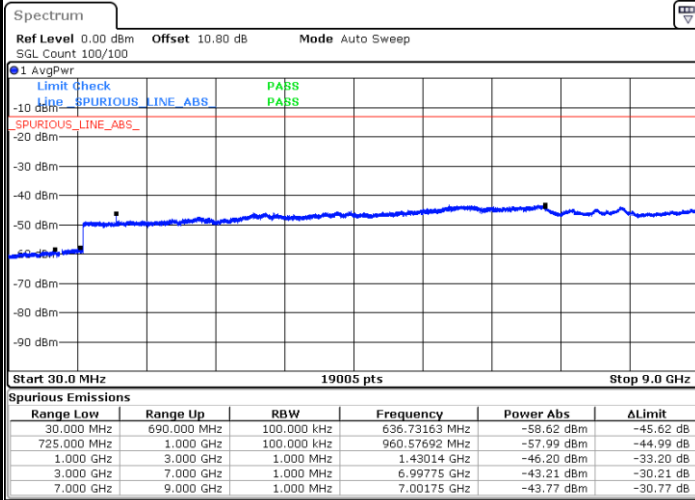
Conducted Spurious Emission





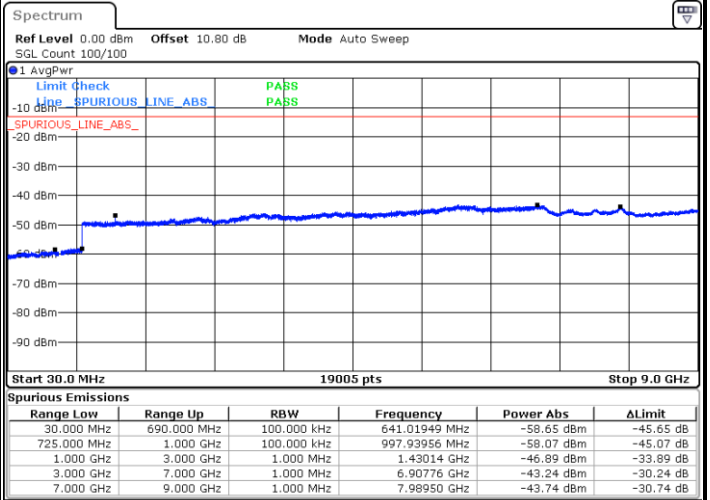
LTE Band 12 / 1.4MHz

Highest Channel / QPSK



Date: 27.SEP.2020 08:12:32

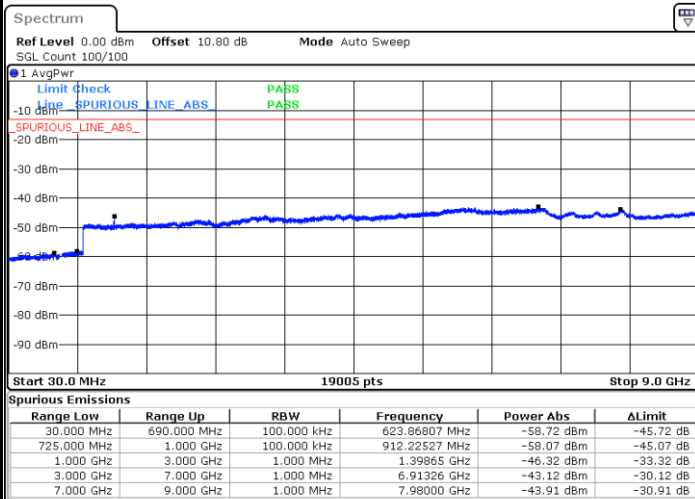
Highest Channel / 16QAM



Date: 27.SEP.2020 08:12:57

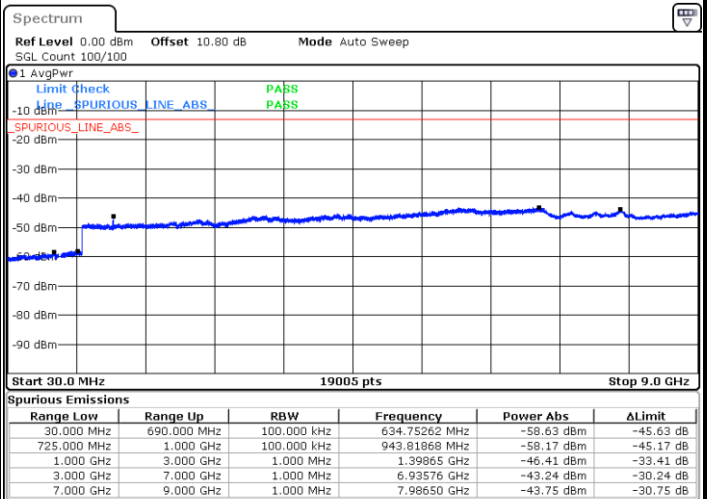
LTE Band 12 / 3MHz

Lowest Channel / QPSK



Date: 27.SEP.2020 08:16:35

Lowest Channel / 16QAM



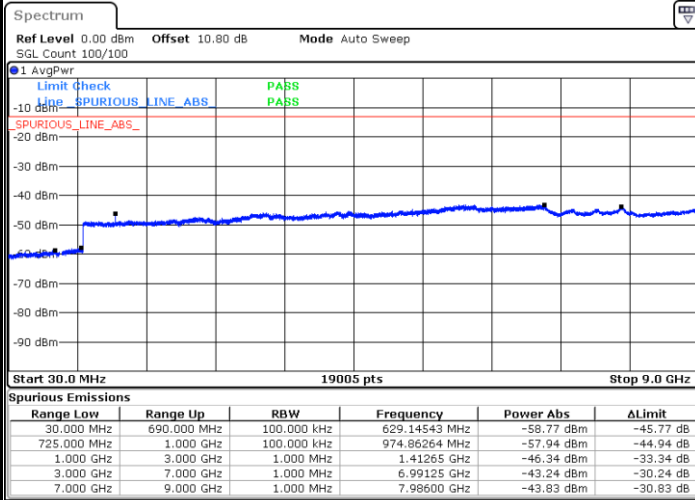
Date: 27.SEP.2020 08:17:00



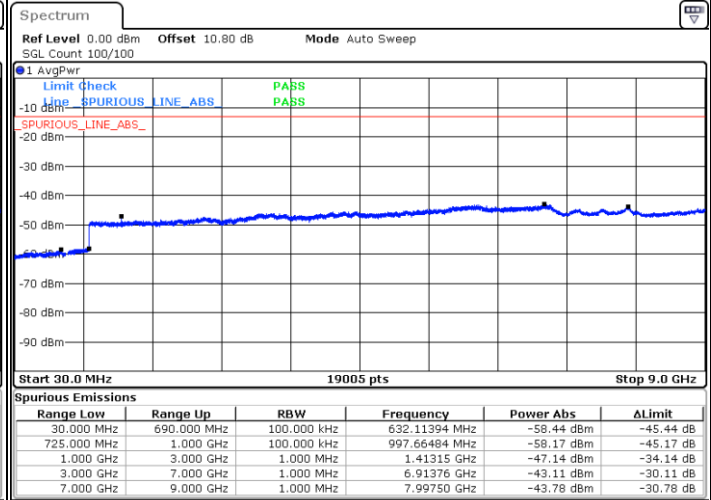
LTE Band 12 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM



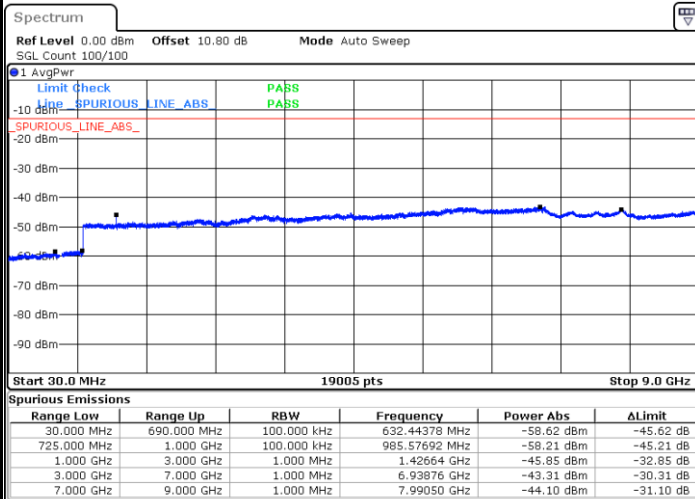
Date: 27.SEP.2020 08:18:34



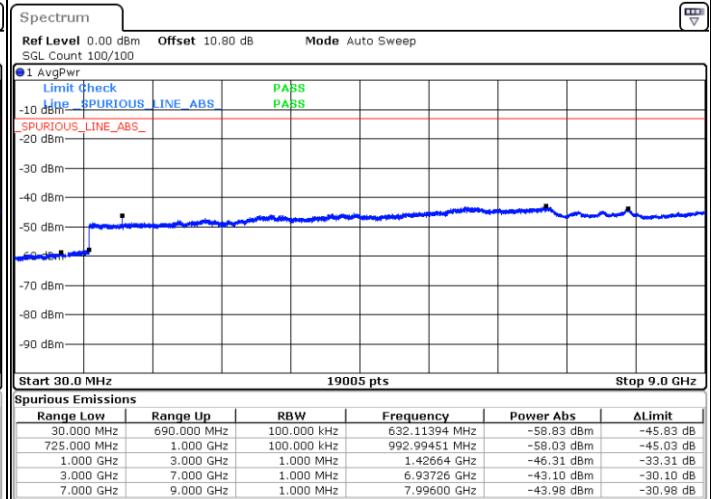
Date: 27.SEP.2020 08:18:10

Highest Channel / QPSK

Highest Channel / 16QAM



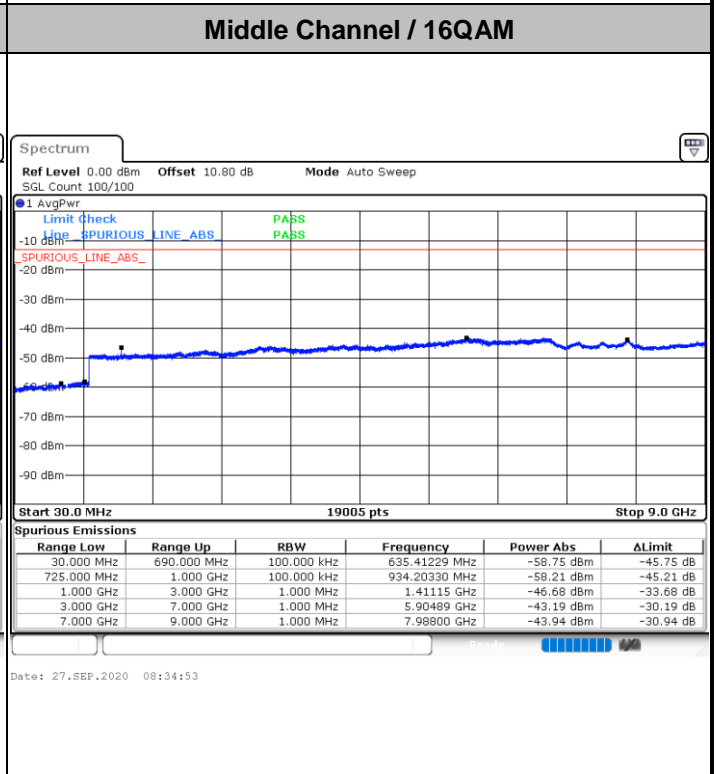
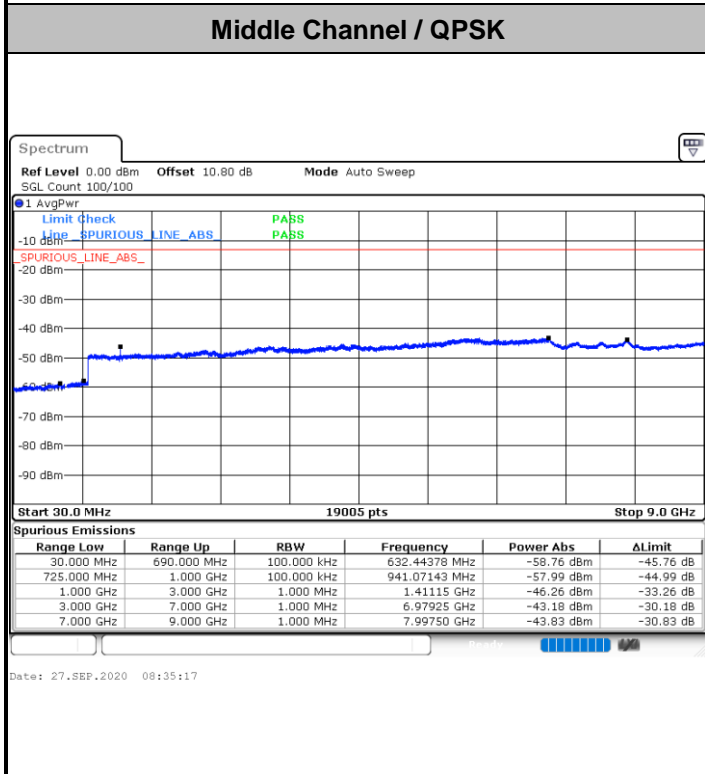
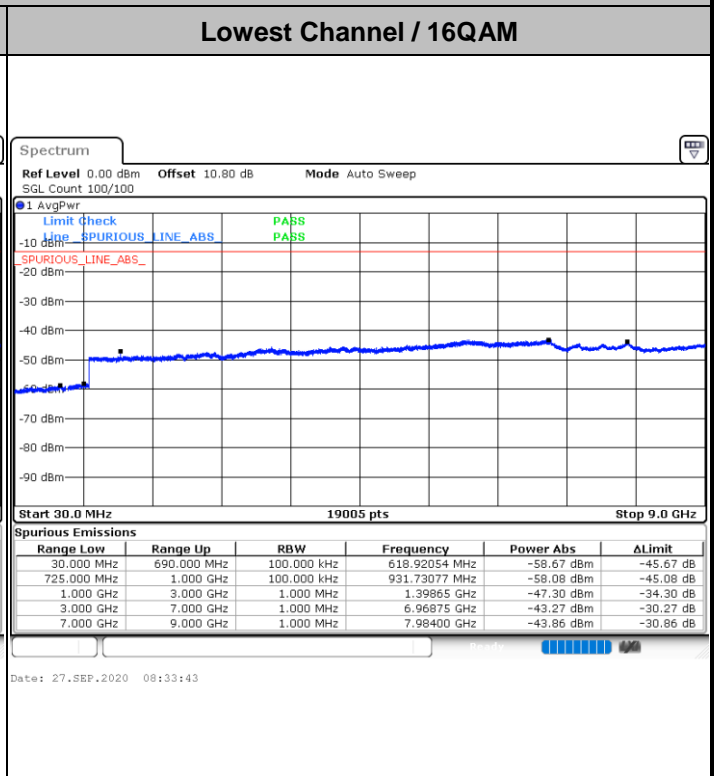
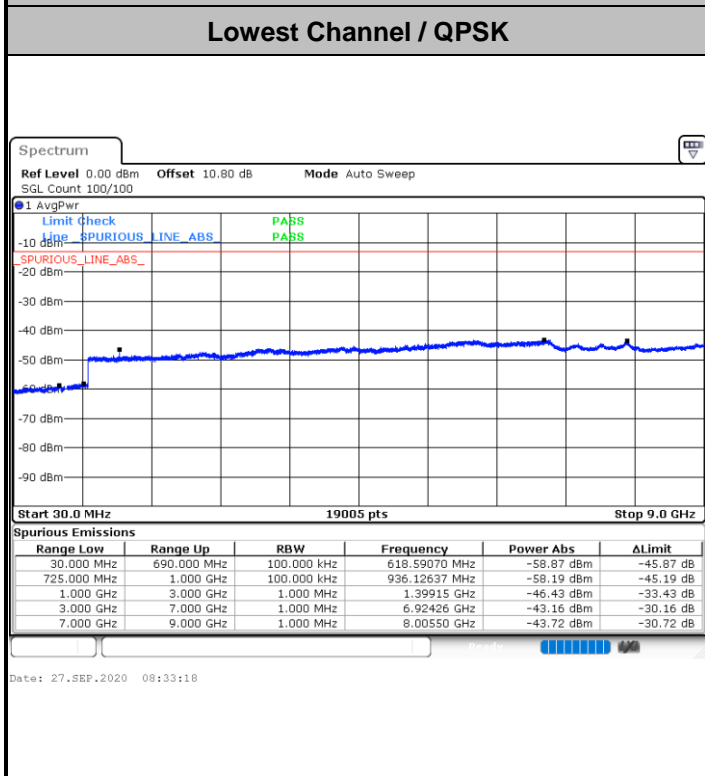
Date: 27.SEP.2020 08:20:19



Date: 27.SEP.2020 08:20:44



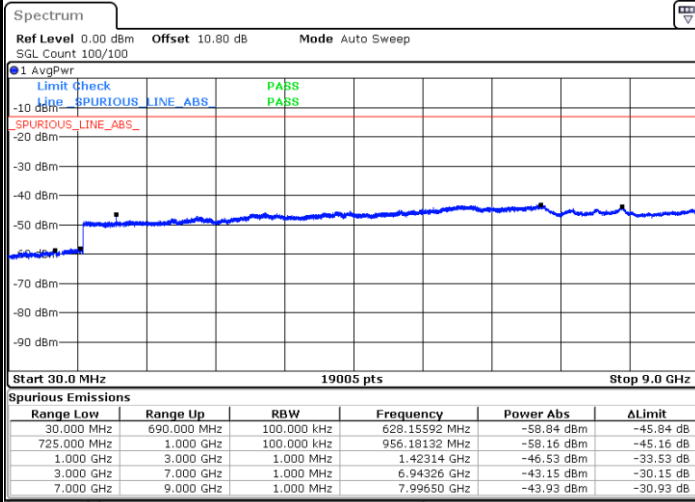
LTE Band 12 / 5MHz





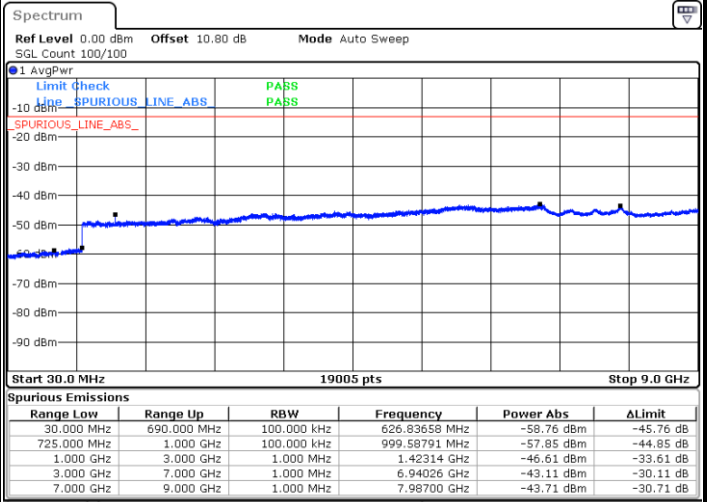
LTE Band 12 / 5MHz

Highest Channel / QPSK



Date: 27.SEP.2020 08:39:05

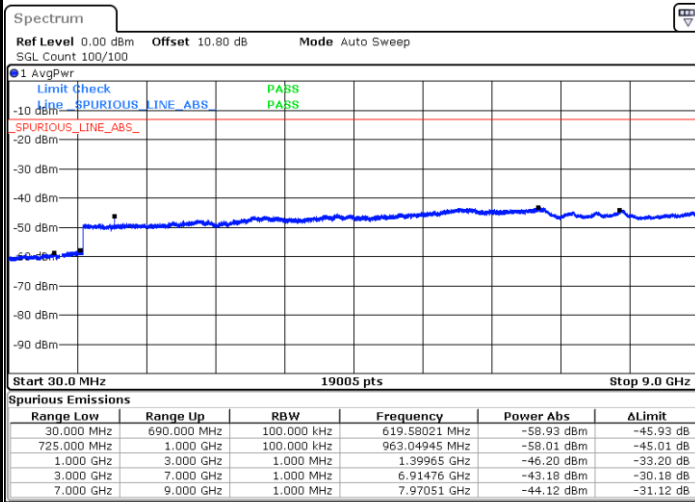
Highest Channel / 16QAM



Date: 27.SEP.2020 08:38:40

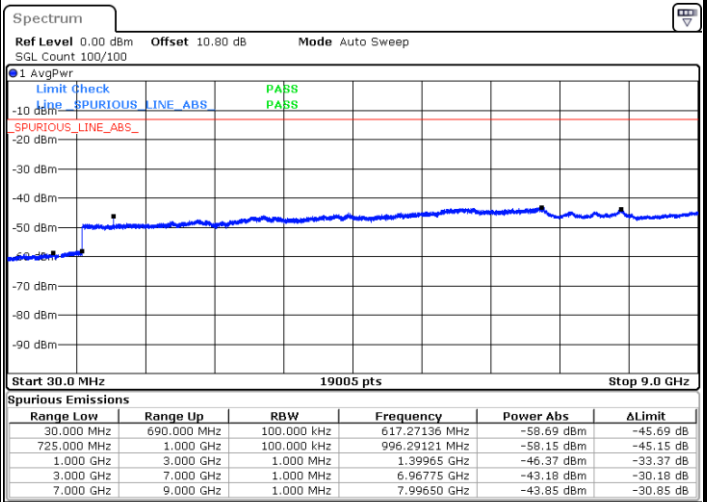
LTE Band 12 / 10MHz

Lowest Channel / QPSK



Date: 27.SEP.2020 08:42:30

Lowest Channel / 16QAM



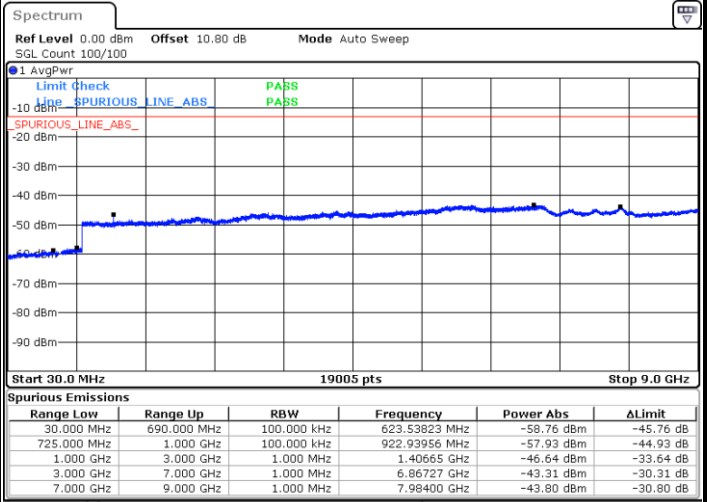
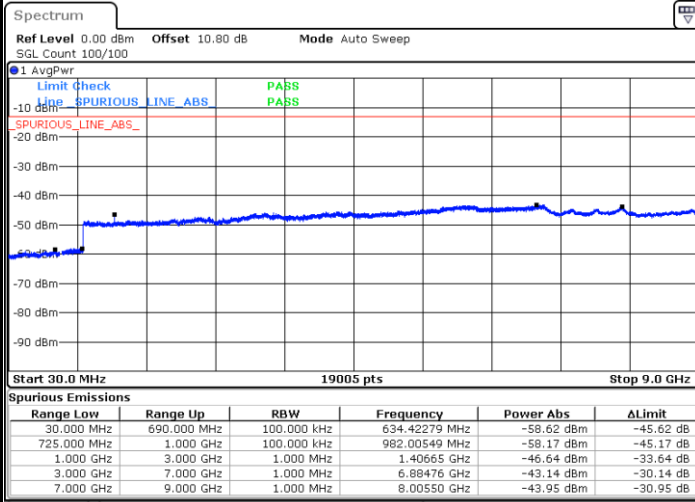
Date: 27.SEP.2020 08:42:55



LTE Band 12 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

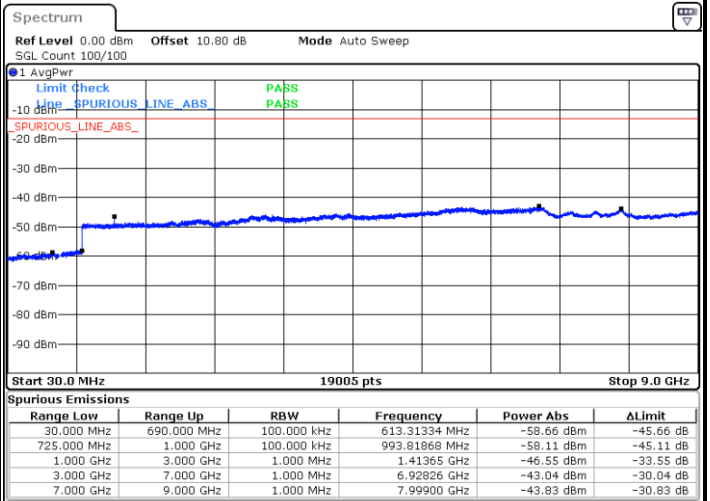
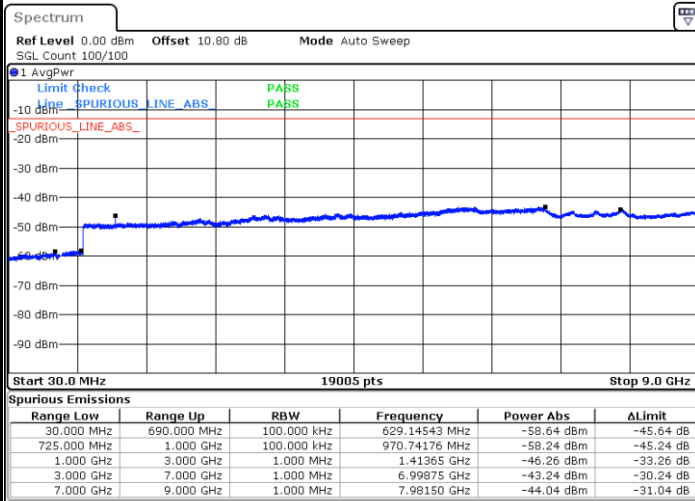


Date: 27.SEP.2020 08:44:29

Date: 27.SEP.2020 08:44:05

Highest Channel / QPSK

Highest Channel / 16QAM



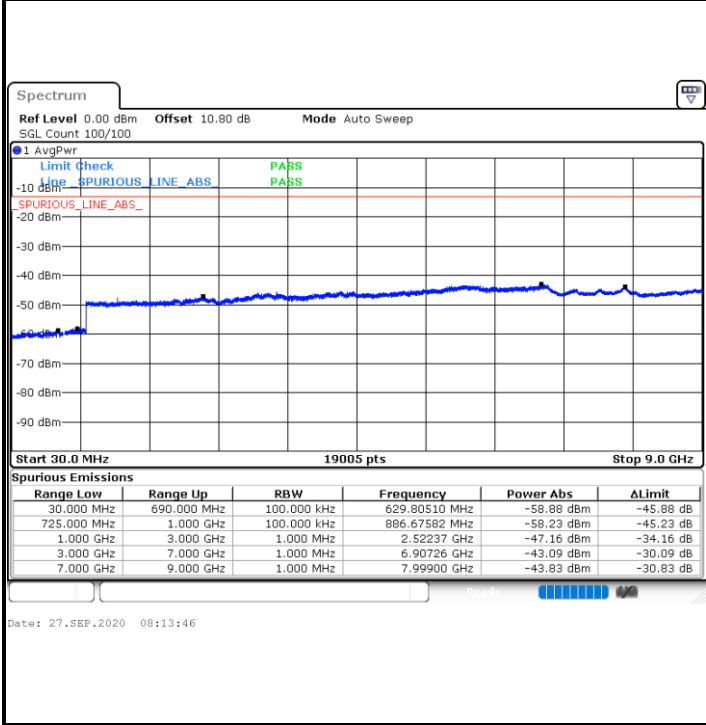
Date: 27.SEP.2020 08:47:53

Date: 27.SEP.2020 08:48:16

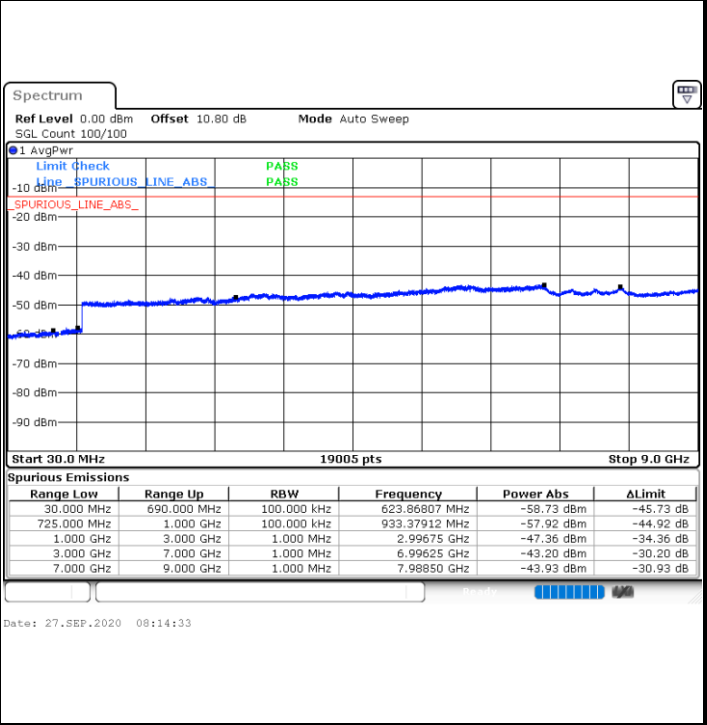


LTE Band 12 / 1.4MHz

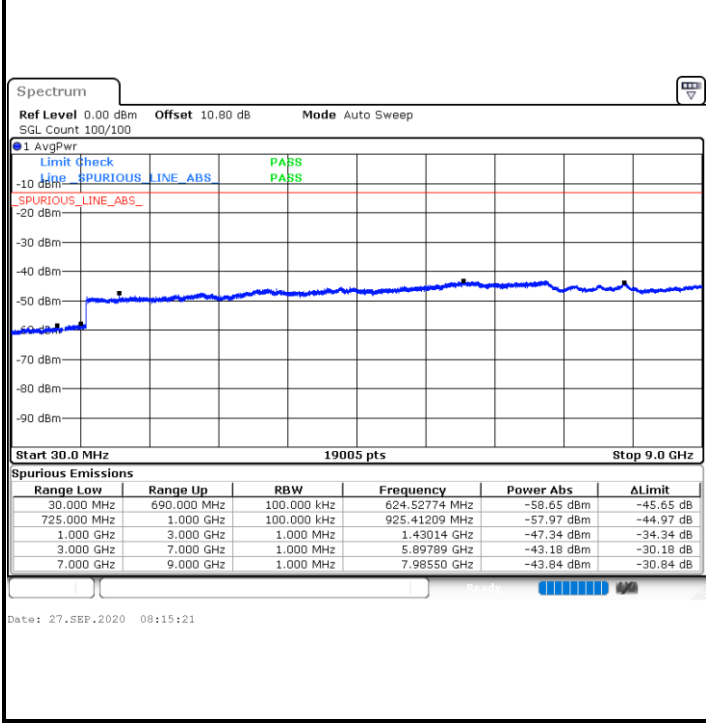
Lowest Channel / 64QAM



Middle Channel / 64QAM



Highest Channel / 64QAM

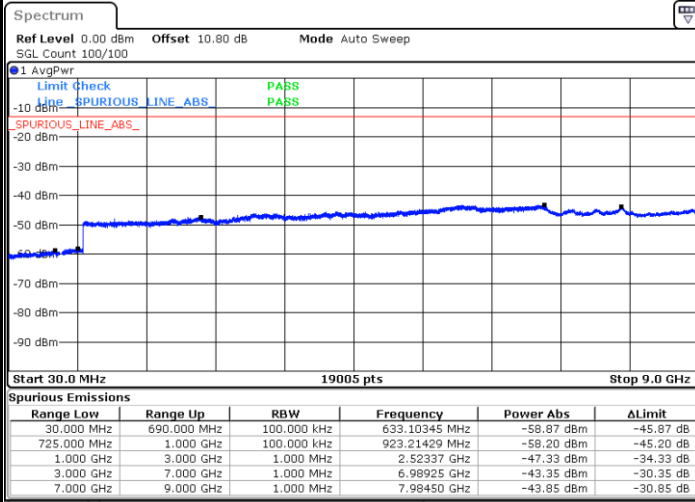




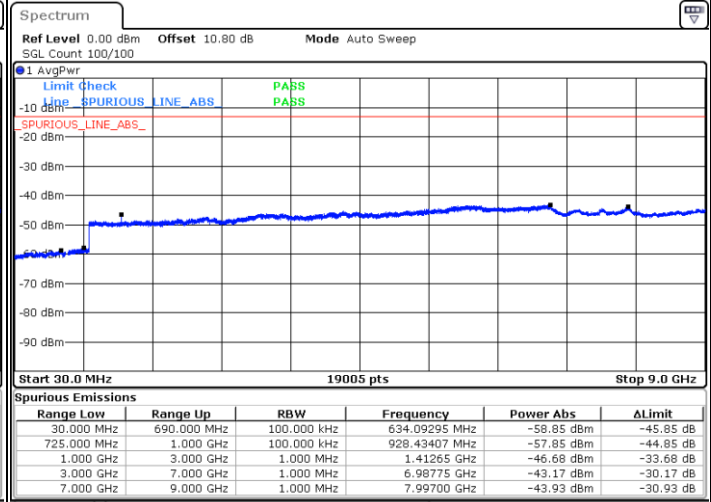
LTE Band 12 / 3MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

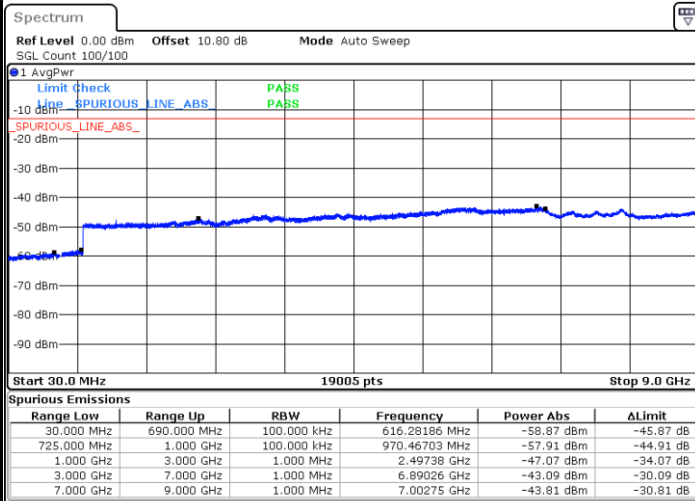


Date: 27.SEP.2020 08:22:38



Date: 27.SEP.2020 08:23:25

Highest Channel / 64QAM



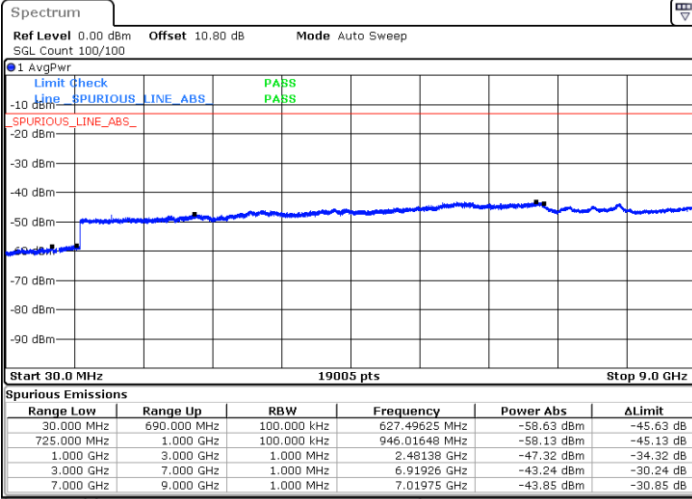
Date: 27.SEP.2020 08:25:19



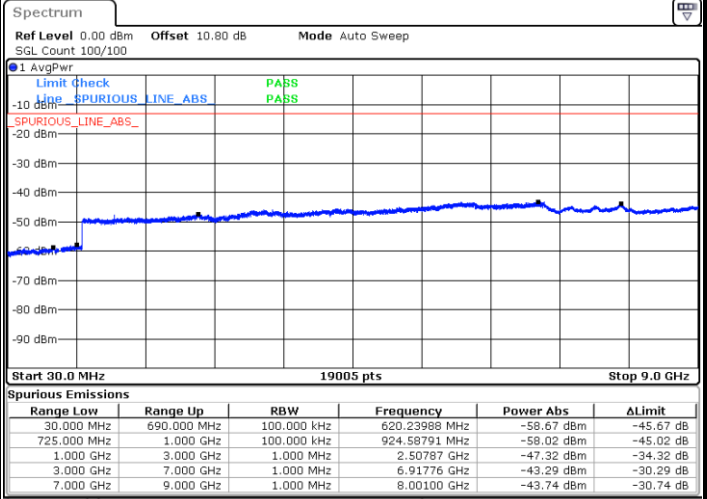
LTE Band 12 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

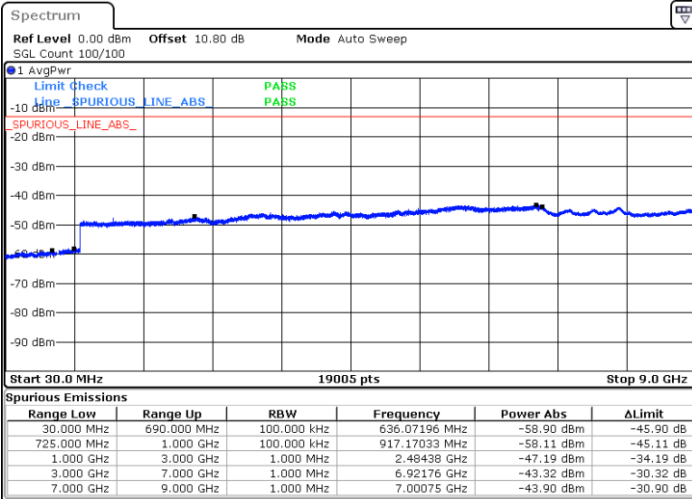


Date: 27.SEP.2020 08:27:14



Date: 27.SEP.2020 08:28:01

Highest Channel / 64QAM



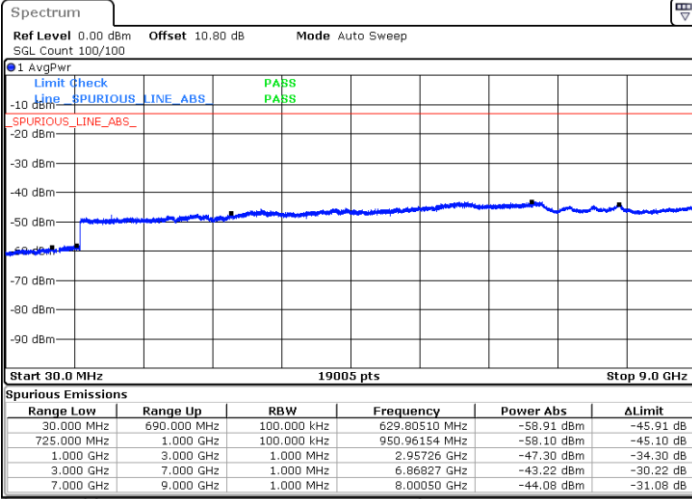
Date: 27.SEP.2020 08:29:54



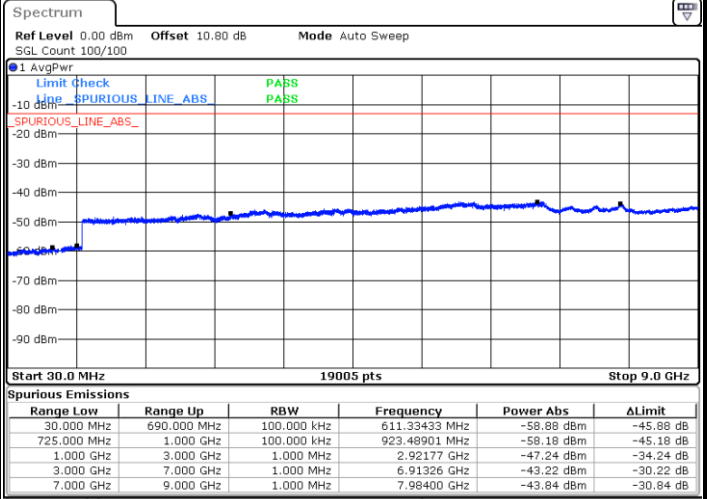
LTE Band 12 / 10MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

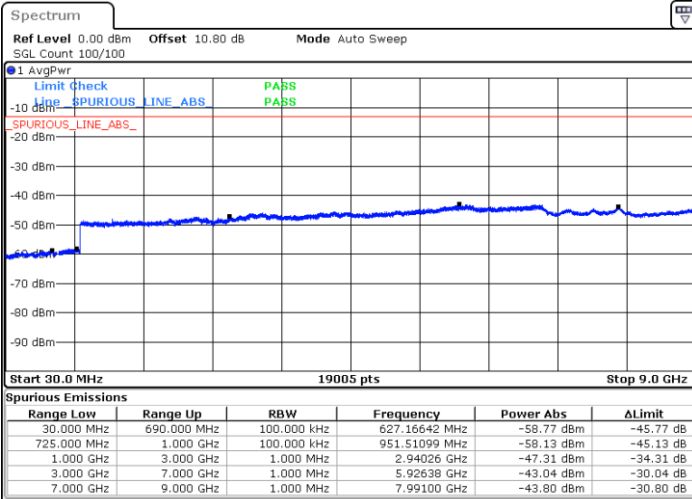


Date: 27.SEP.2020 08:50:13



Date: 27.SEP.2020 08:51:01

Highest Channel / 64QAM



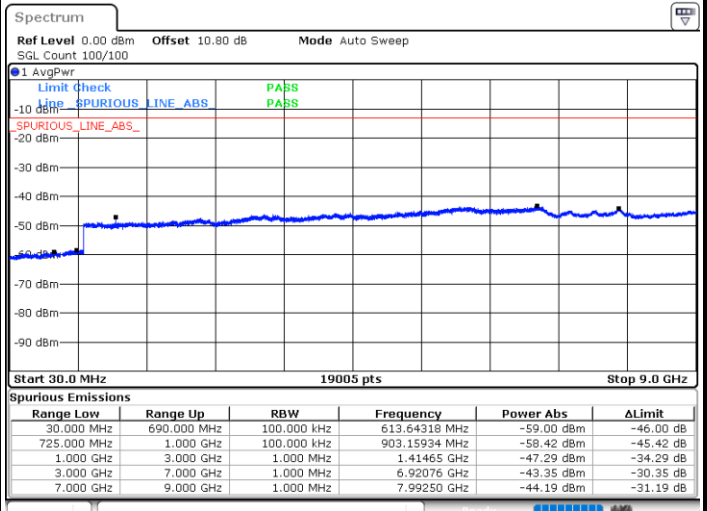
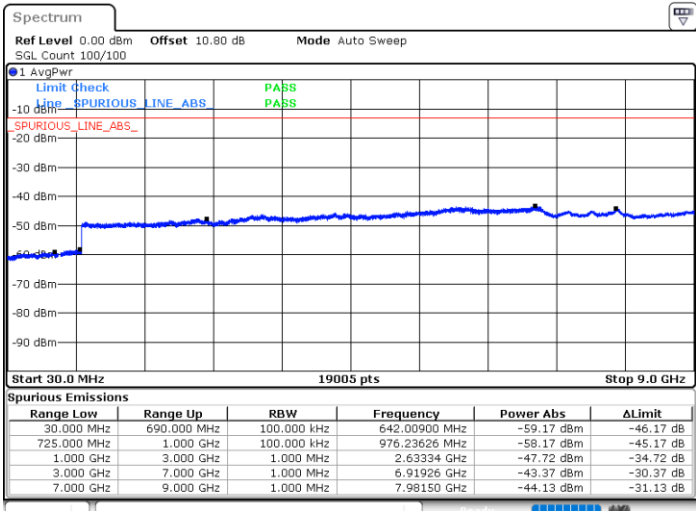
Date: 27.SEP.2020 08:52:55



LTE Band 12 / 1.4MHz

Lowest Channel / 256QAM

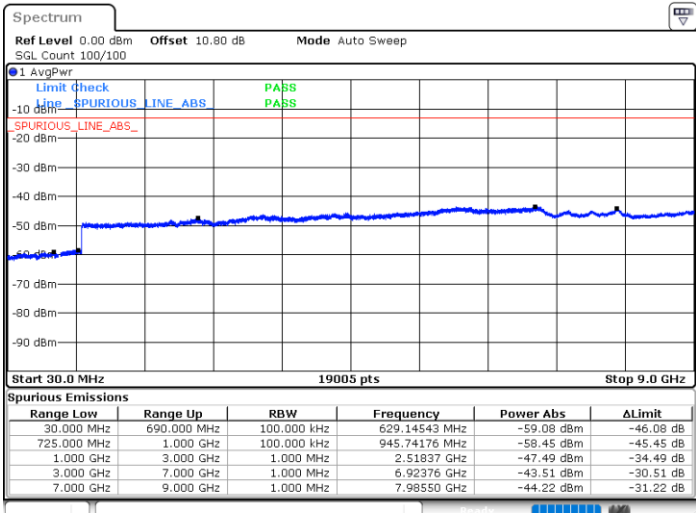
Middle Channel / 256QAM



Date: 28.SEP.2020 09:19:52

Date: 28.SEP.2020 09:17:12

Highest Channel / 256QAM



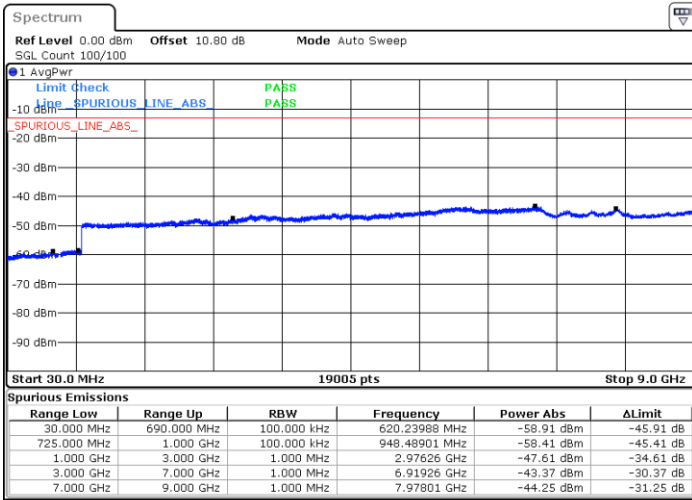
Date: 28.SEP.2020 09:21:25



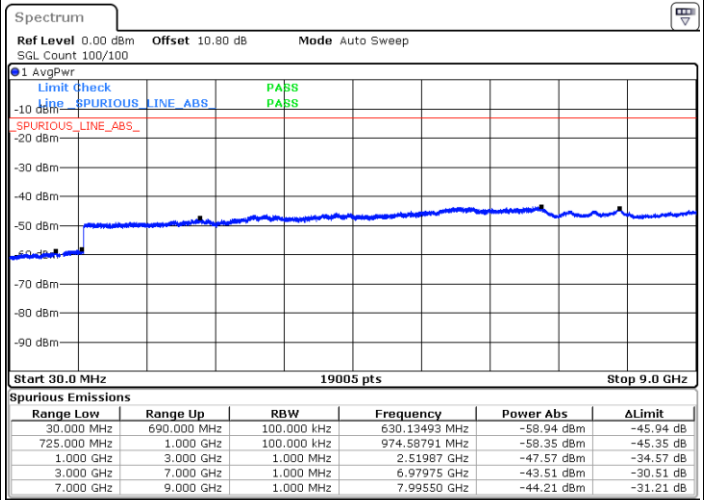
LTE Band 12 / 3MHz

Lowest Channel / 256QAM

Middle Channel / 256QAM

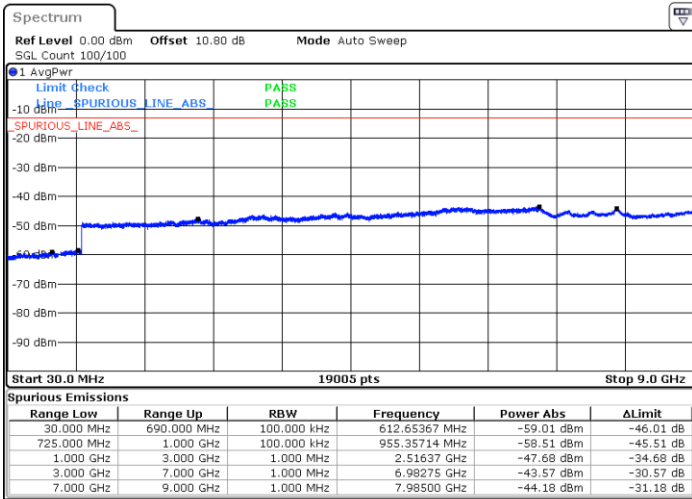


Date: 28.SEP.2020 09:25:19



Date: 28.SEP.2020 09:23:07

Highest Channel / 256QAM



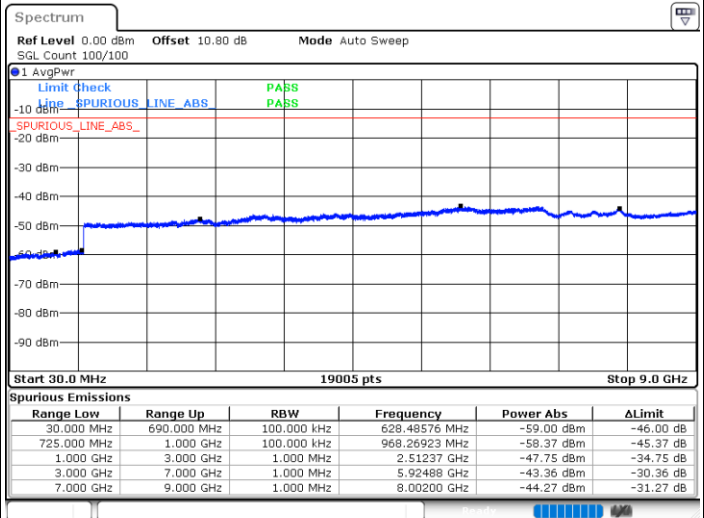
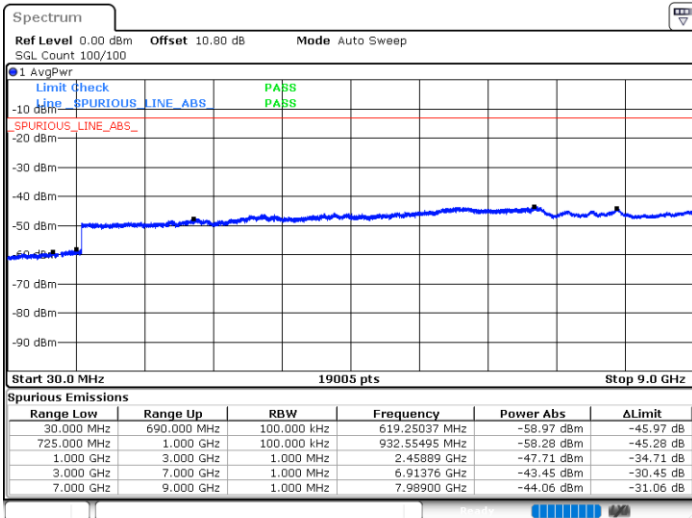
Date: 28.SEP.2020 09:27:08



LTE Band 12 / 5MHz

Lowest Channel / 256QAM

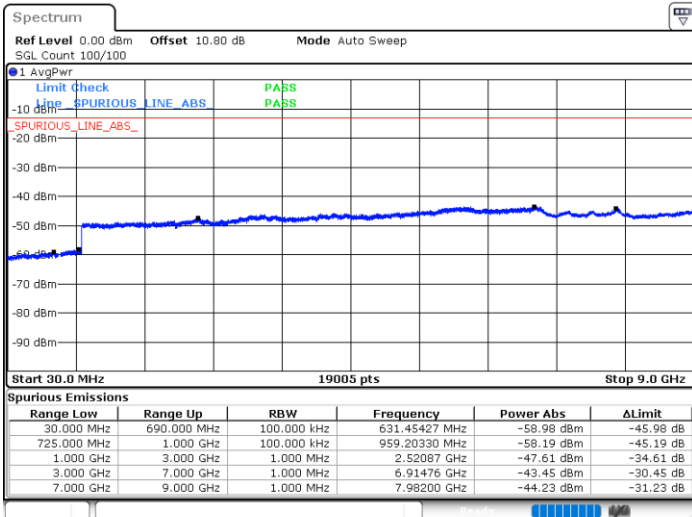
Middle Channel / 256QAM



Date: 28.SEP.2020 09:30:49

Date: 28.SEP.2020 09:28:51

Highest Channel / 256QAM



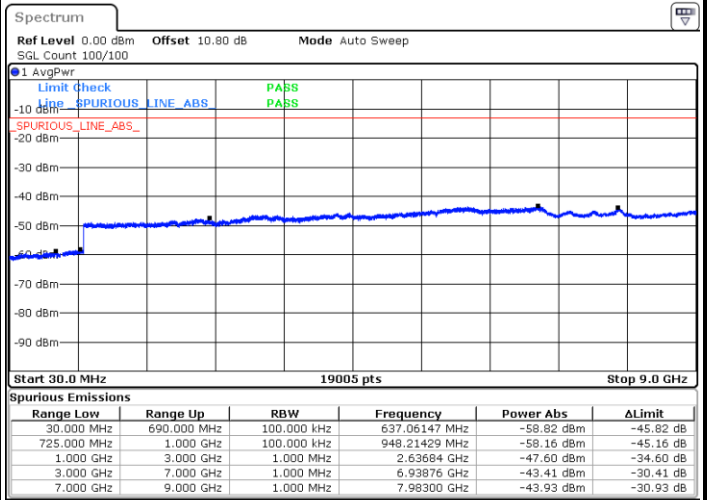
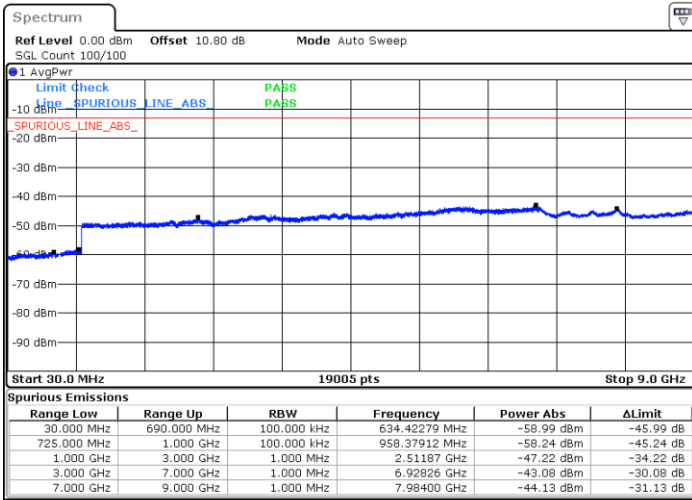
Date: 28.SEP.2020 09:32:20



LTE Band 12 / 10MHz

Lowest Channel / 256QAM

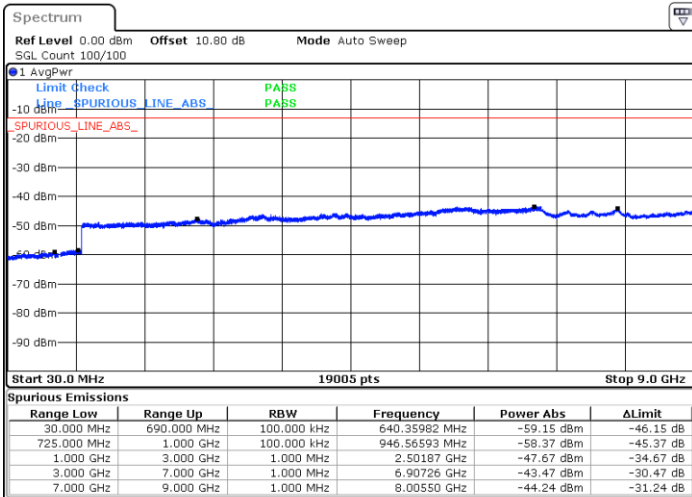
Middle Channel / 256QAM



Date: 28.SEP.2020 09:35:58

Date: 28.SEP.2020 09:34:18

Highest Channel / 256QAM



Date: 28.SEP.2020 09:38:10



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	0.0235	PASS
40	Normal Voltage	0.0167	
30	Normal Voltage	0.0212	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0218	
0	Normal Voltage	0.0013	
-10	Normal Voltage	0.0228	
-20	Normal Voltage	0.0089	
-30	Normal Voltage	0.0073	
20	Maximum Voltage	0.0189	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0216	

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 13

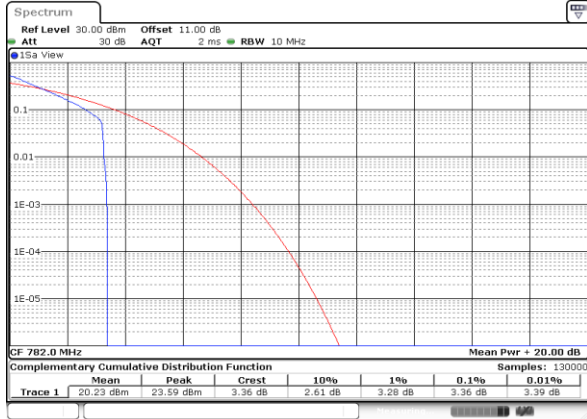
Peak-to-Average Ratio

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	4.29	5.07	5.30	
Highest CH	-	-	-	-	
Mode	LTE Band 13 / 10MHz				
Mod.	64QAM		256QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	6.52	6.35	5.88	6.29	
Highest CH	-	-	-	-	



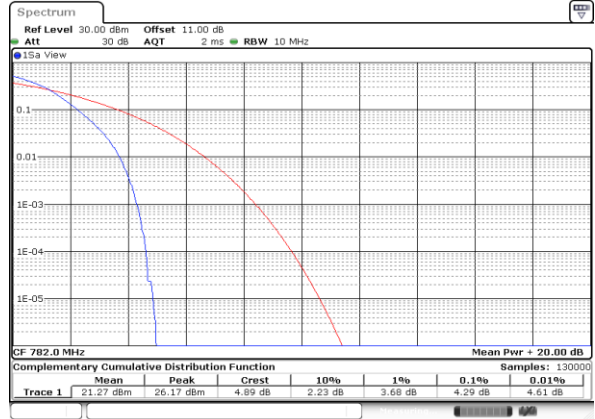
LTE Band 13 / 10MHz / QPSK

Middle Channel / 1RB



Date: 27_SEP.2020 09:53:03

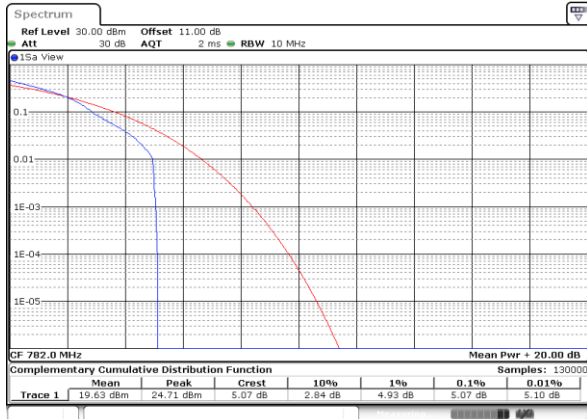
Middle Channel / Full RB



Date: 27_SEP.2020 09:53:13

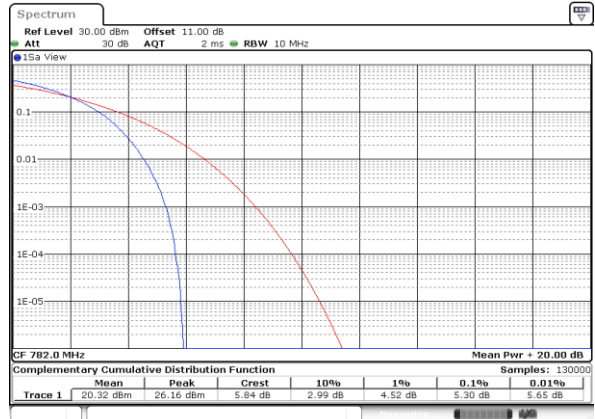
LTE Band 13 / 10MHz / 16QAM

Middle Channel / 1RB



Date: 27_SEP.2020 09:52:40

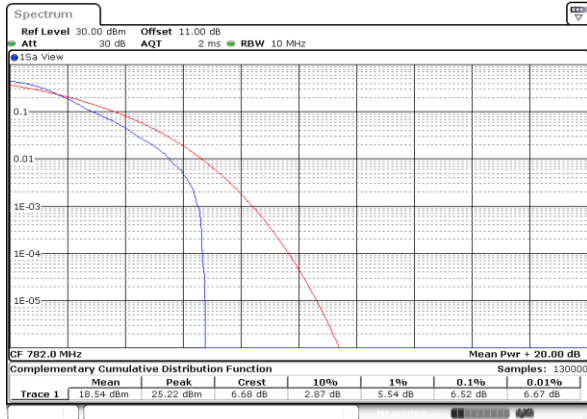
Middle Channel / Full RB



Date: 27_SEP.2020 09:52:52

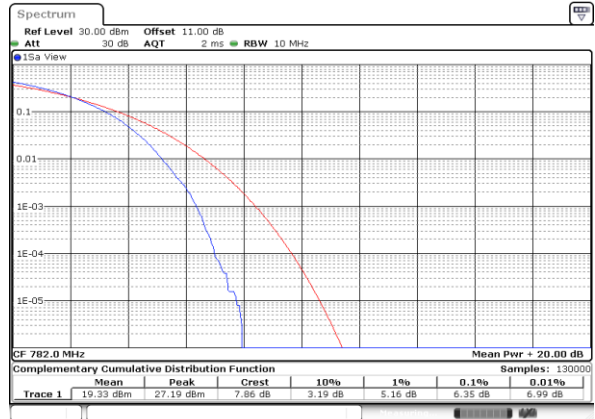
LTE Band 13 / 10MHz / 64QAM

Middle Channel / 1RB



Date: 27_SEP.2020 09:52:19

Middle Channel / Full RB

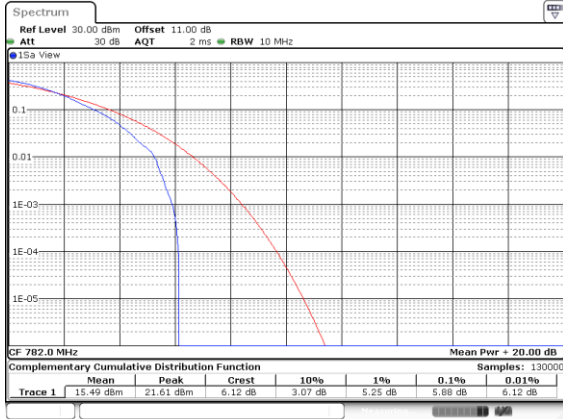


Date: 27_SEP.2020 09:52:30



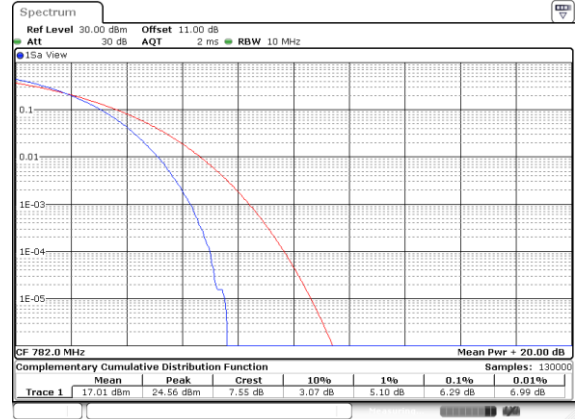
LTE Band 13 / 10MHz / 256QAM

Middle Channel / 1RB



Date: 28.SEP.2020 09:57:57

Middle Channel / Full RB



Date: 28.SEP.2020 09:55:31



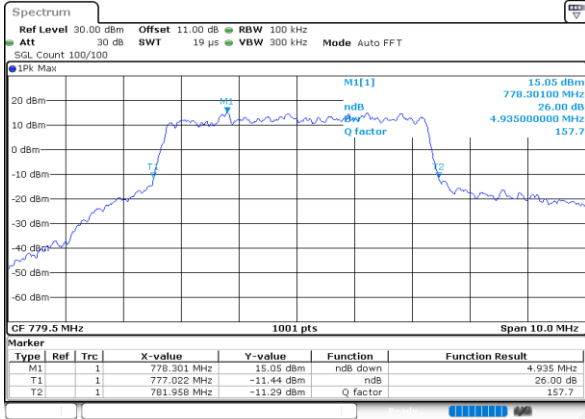
26dB Bandwidth

Mode	LTE Band 13 : 26dB BW(MHz)											
BW	-		-		5MHz		10MHz		-		-	
Mod.	-	-	-	-	QPSK	16QAM	QPSK	16QAM	-	-	-	-
Lowest CH	-	-	-	-	4.94	4.85	-	-	-	-	-	-
Middle CH	-	-	-	-	4.88	4.96	9.67	9.87	-	-	-	-
Highest CH	-	-	-	-	4.90	4.93	-	-	-	-	-	-
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	-		-		5MHz		10MHz		-		-	
Mod.	-	-	-	-	64QAM	256 QAM	64QAM	256 QAM	-	-	-	-
Lowest CH	-	-	-	-	4.81	4.81	-	-	-	-	-	-
Middle CH	-	-	-	-	4.85	4.91	9.77	9.83	-	-	-	-
Highest CH	-	-	-	-	4.95	4.86	-	-	-	-	-	-



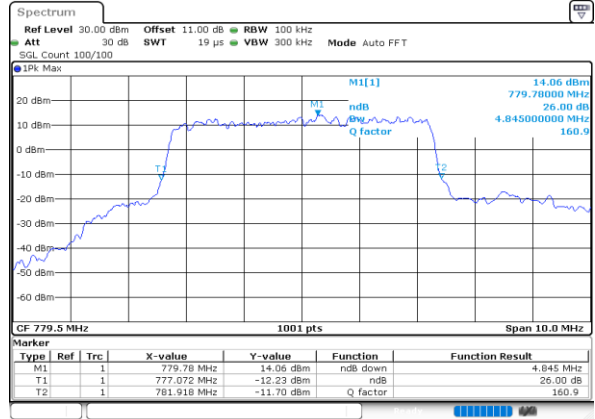
LTE Band 13

Lowest Channel / 5MHz / QPSK



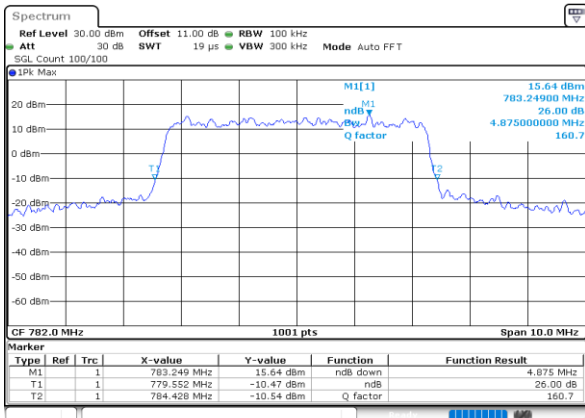
Date: 27.SEP.2020 09:03:21

Lowest Channel / 5MHz / 16QAM



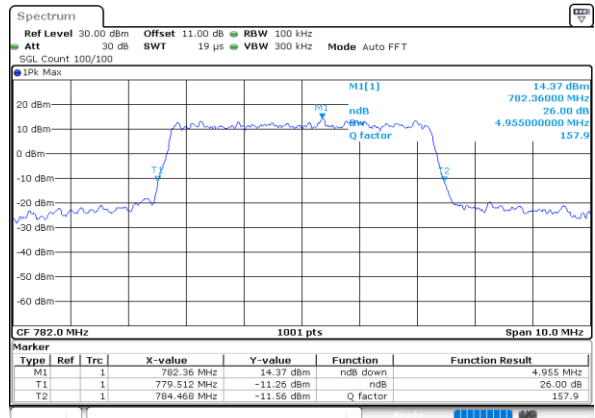
Date: 27.SEP.2020 09:10:110

Middle Channel / 5MHz / QPSK



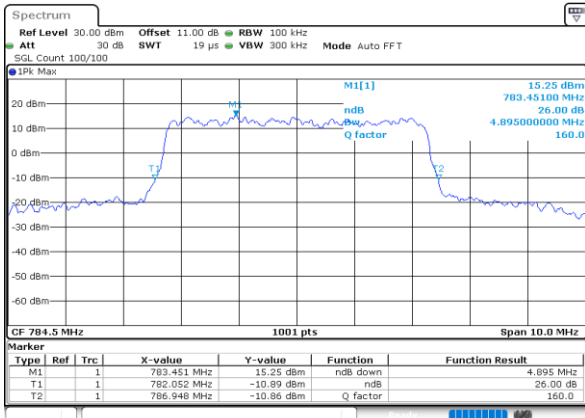
Date: 27.SEP.2020 09:11:51

Middle Channel / 5MHz / 16QAM



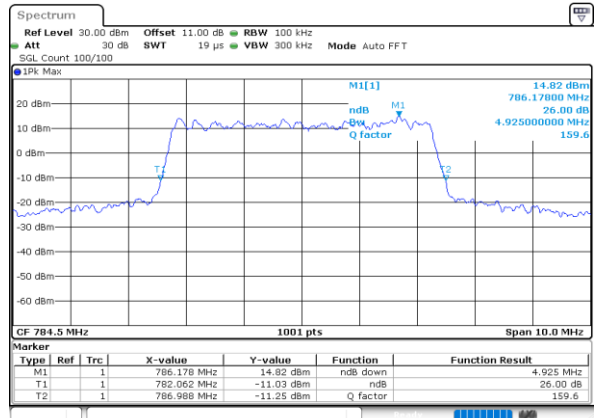
Date: 27.SEP.2020 09:12:02

Highest Channel / 5MHz / QPSK



Date: 27.SEP.2020 09:13:11

Highest Channel / 5MHz / 16QAM



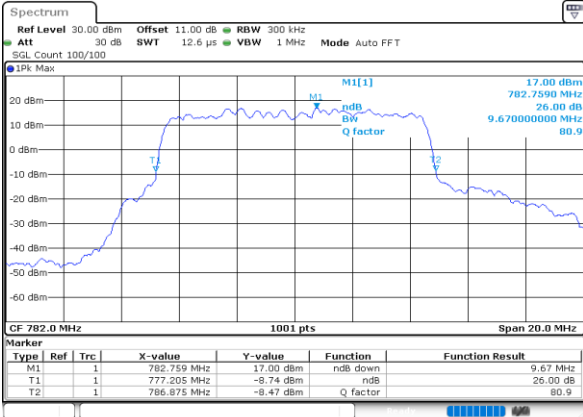
Date: 27.SEP.2020 09:13:100



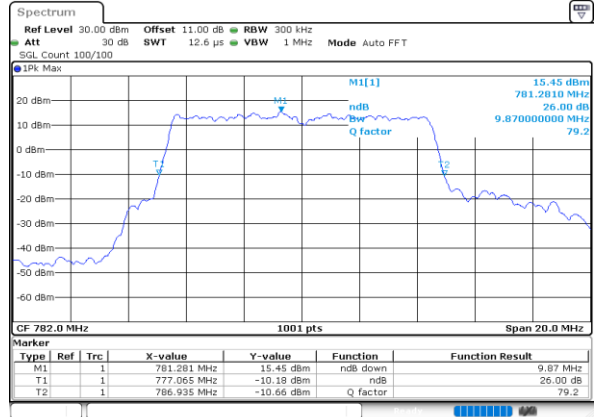
LTE Band 13

Middle Channel / 10MHz / QPSK

Middle Channel / 10MHz / 16QAM



Date: 27.SEP.2020 09:30:29

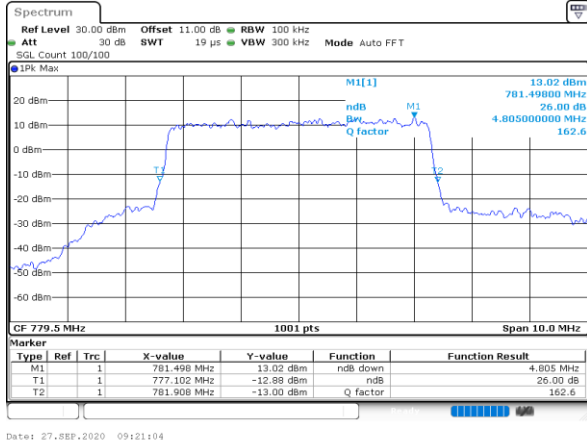


Date: 27.SEP.2020 09:30:18

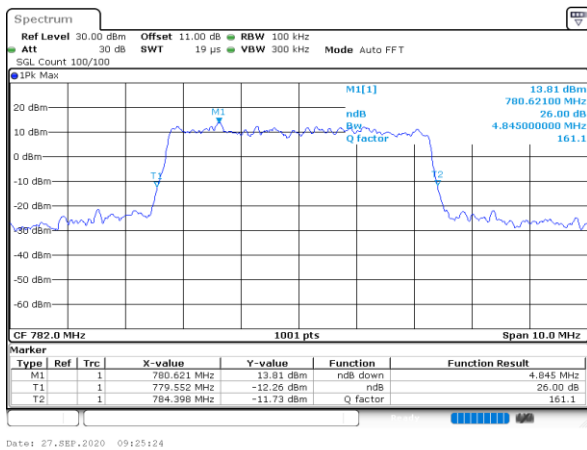


LTE Band 13

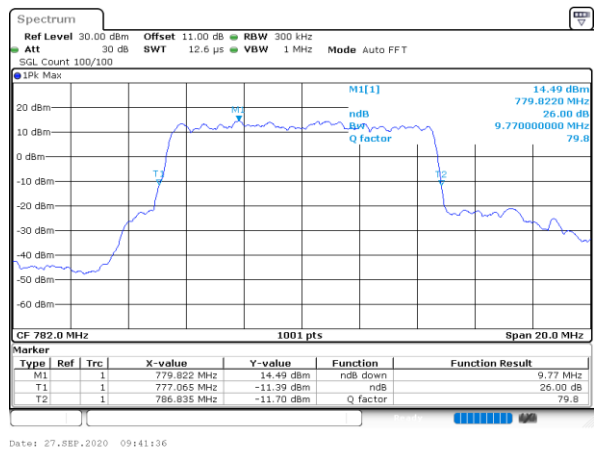
Lowest Channel / 5MHz / 64QAM



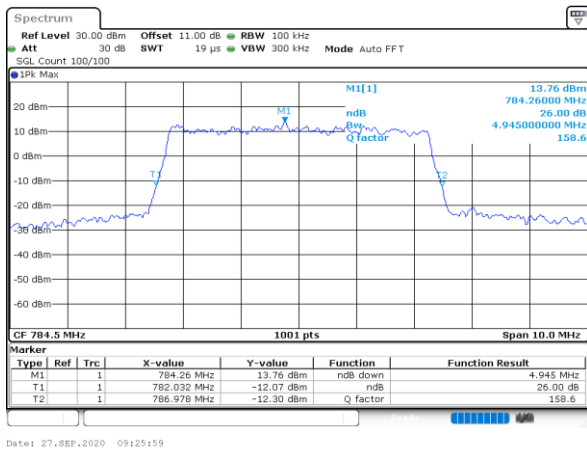
Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM



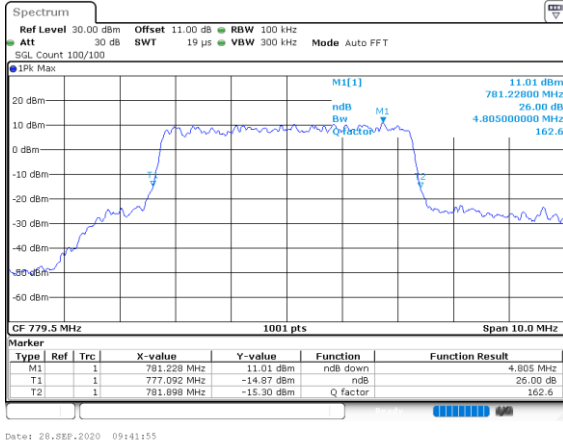
Highest Channel / 5MHz / 64QAM





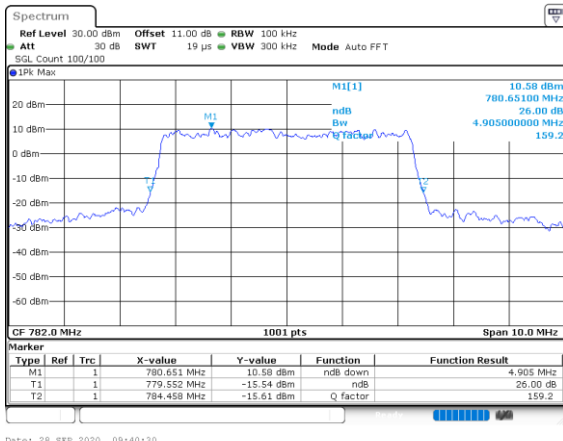
LTE Band 13

Lowest Channel / 5MHz / 256QAM



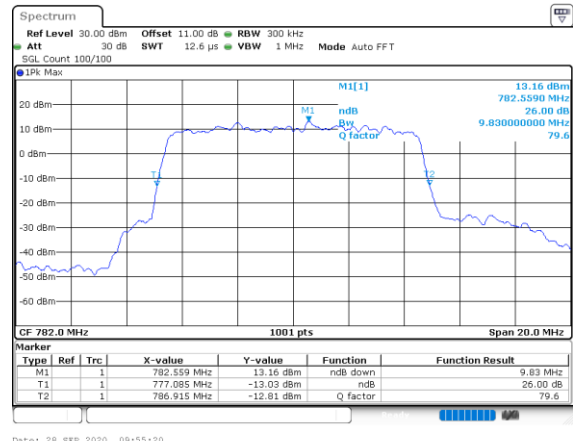
Date: 28.SEP.2020 09:41:55

Middle Channel / 5MHz / 256QAM



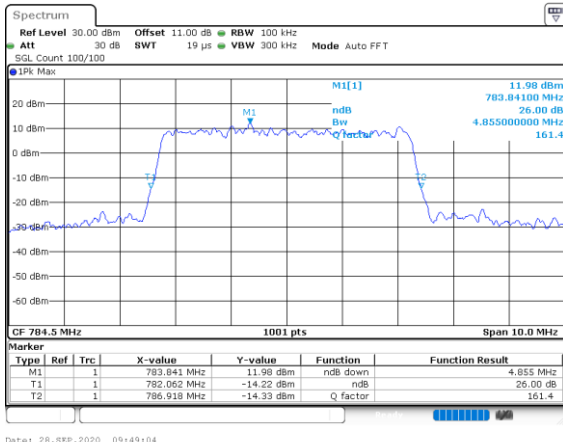
Date: 28.SEP.2020 09:40:30

Middle Channel / 10MHz / 256QAM



Date: 28.SEP.2020 09:55:20

Highest Channel / 5MHz / 256QAM



Date: 28.SEP.2020 09:49:04



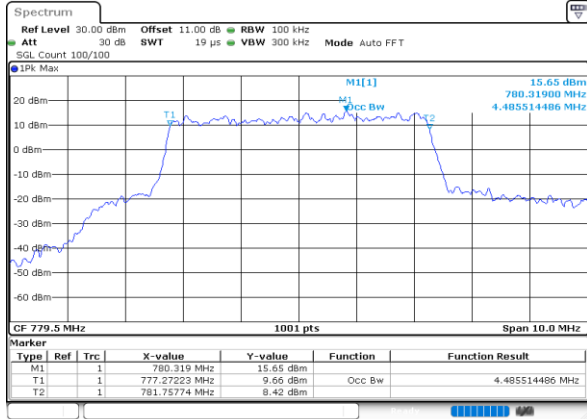
Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)											
BW	-		-		5MHz		10MHz		-		-	
Mod.	-	-	-	-	QPSK	16QAM	QPSK	16QAM	-	-	-	-
Lowest CH	-	-	-	-	4.49	4.49	-	-	-	-	-	-
Middle CH	-	-	-	-	4.47	4.48	8.99	8.95	-	-	-	-
Highest CH	-	-	-	-	4.49	4.50	-	-	-	-	-	-
Mode	LTE Band 13 : 99%OBW(MHz)											
BW	-		-		5MHz		10MHz		-		-	
Mod.	-	-	-	-	64QAM	256 QAM	64QAM	256 QAM	-	-	-	-
Lowest CH	-	-	-	-	4.48	4.48	-	-	-	-	-	-
Middle CH	-	-	-	-	4.46	4.49	9.01	9.01	-	-	-	-
Highest CH	-	-	-	-	4.49	4.49	-	-	-	-	-	-



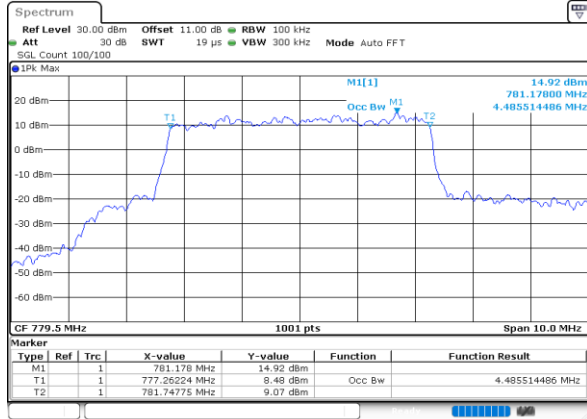
LTE Band 13

Lowest Channel / 5MHz / QPSK



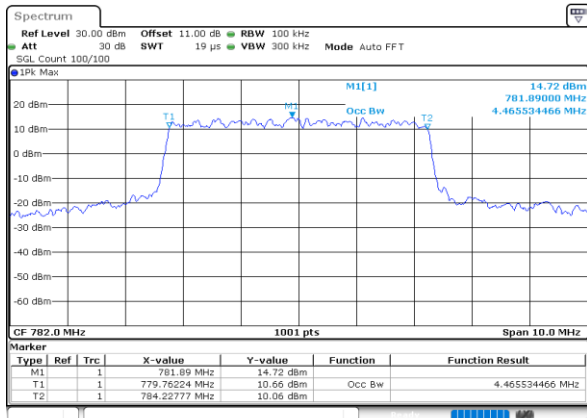
Date: 27_SEP.2020 09:02:46

Lowest Channel / 5MHz / 16QAM



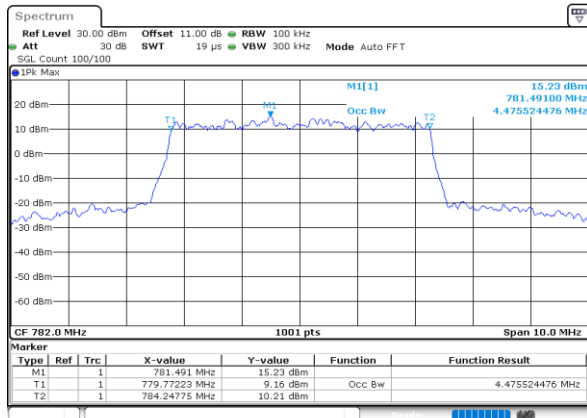
Date: 27_SEP.2020 09:02:58

Middle Channel / 5MHz / QPSK



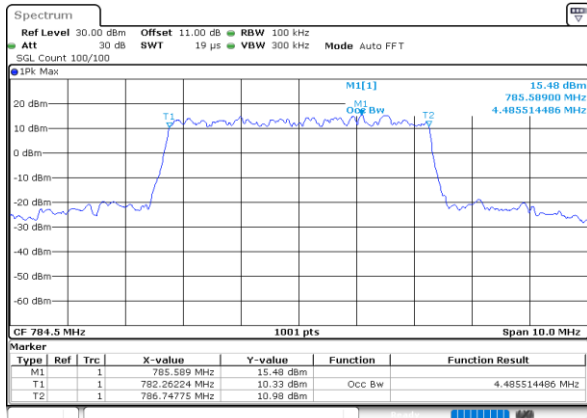
Date: 27_SEP.2020 09:12:25

Middle Channel / 5MHz / 16QAM



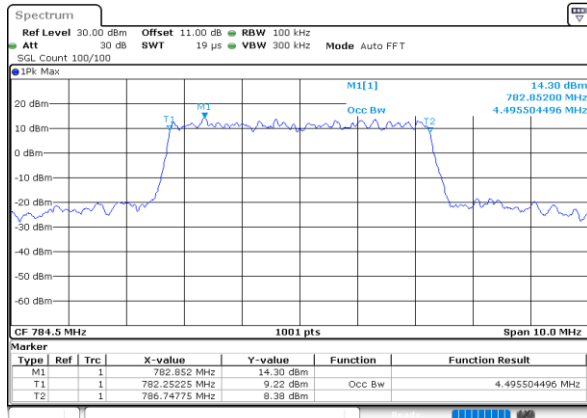
Date: 27_SEP.2020 09:12:13

Highest Channel / 5MHz / QPSK



Date: 27_SEP.2020 09:12:36

Highest Channel / 5MHz / 16QAM



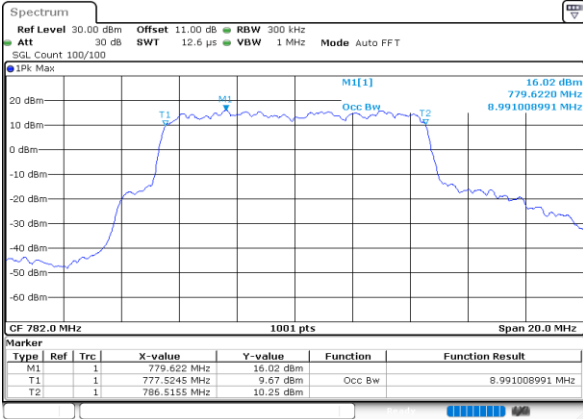
Date: 27_SEP.2020 09:12:48



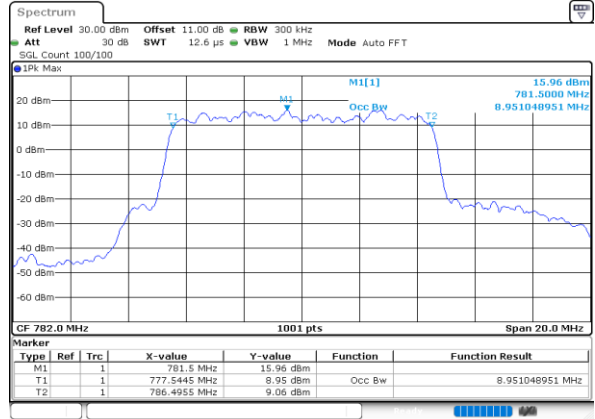
LTE Band 13

Middle Channel / 10MHz / QPSK

Middle Channel / 10MHz / 16QAM



Date: 27.SEP.2020 09:29:55

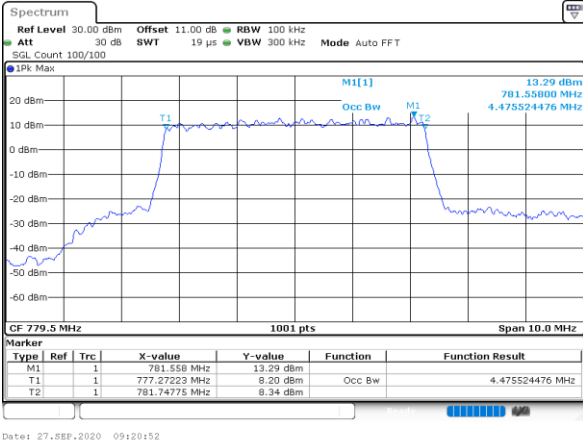


Date: 27.SEP.2020 09:30:06



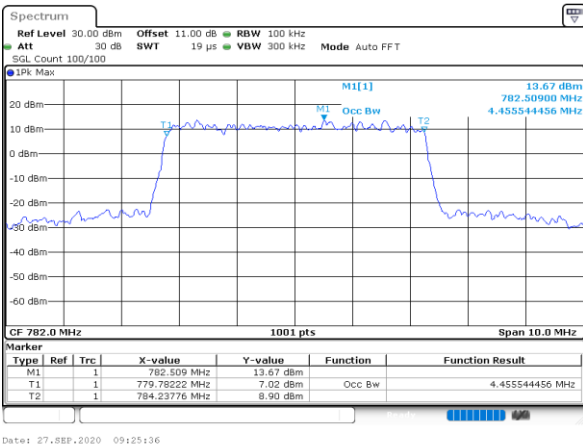
LTE Band 13

Lowest Channel / 5MHz / 64QAM



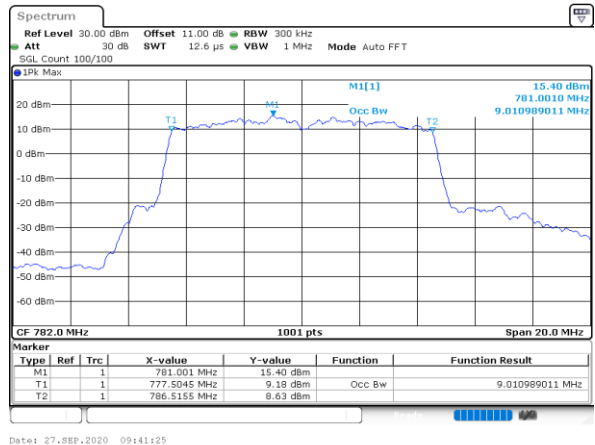
Date: 27.SEP.2020 09:20:52

Middle Channel / 5MHz / 64QAM



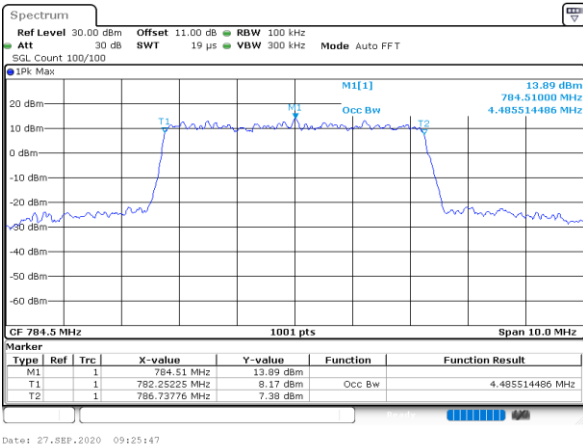
Date: 27.SEP.2020 09:25:36

Middle Channel / 10MHz / 64QAM



Date: 27.SEP.2020 09:41:25

Highest Channel / 5MHz / 64QAM

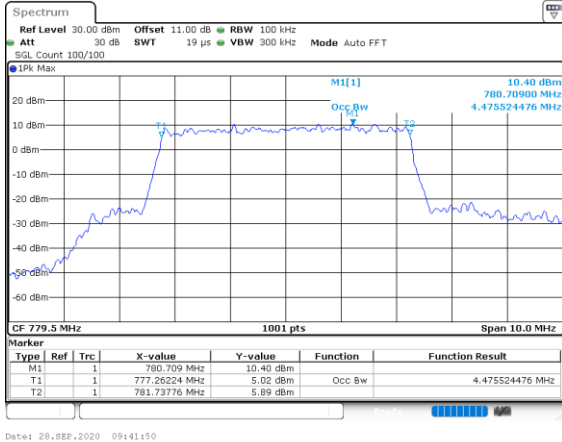


Date: 27.SEP.2020 09:25:47



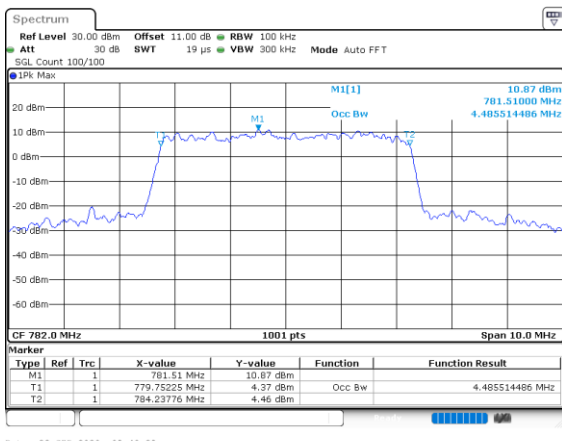
LTE Band 13

Lowest Channel / 5MHz / 256QAM



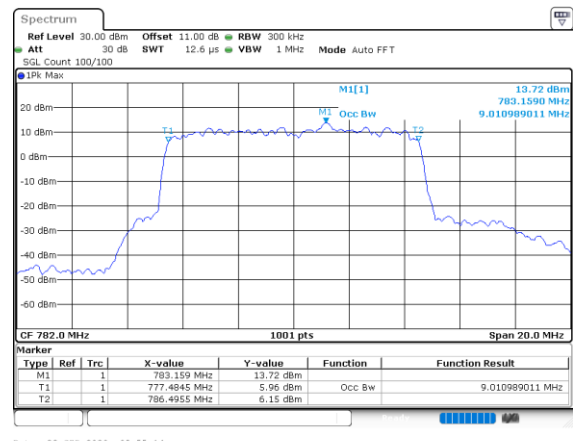
Date: 28,SEP,2020 09:41:50

Middle Channel / 5MHz / 256QAM



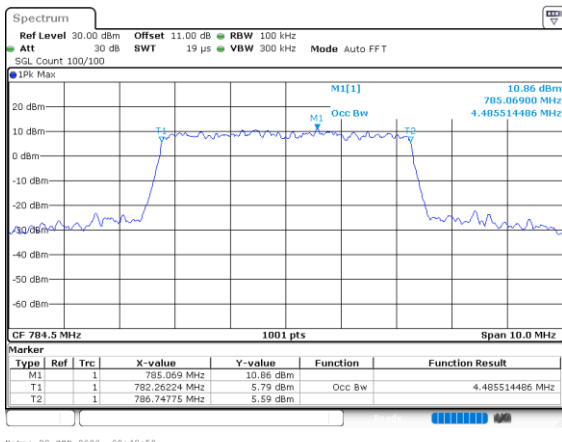
Date: 28,SEP,2020 09:40:23

Middle Channel / 10MHz / 256QAM



Date: 28,SEP,2020 09:55:14

Highest Channel / 5MHz / 256QAM



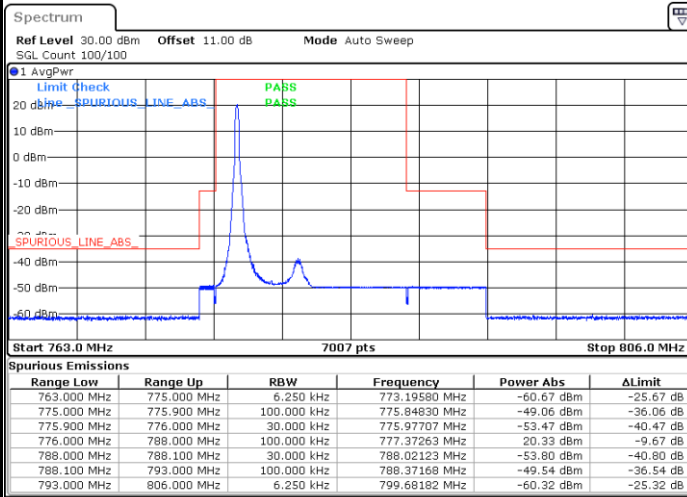
Date: 28,SEP,2020 09:48:59



Conducted Band Edge

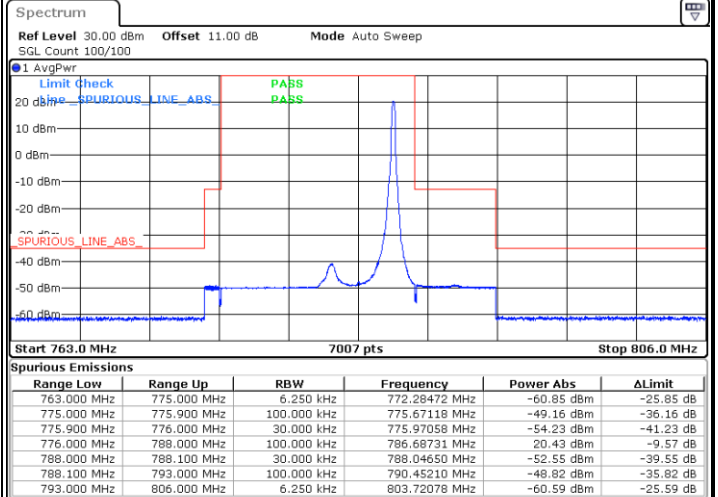
LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



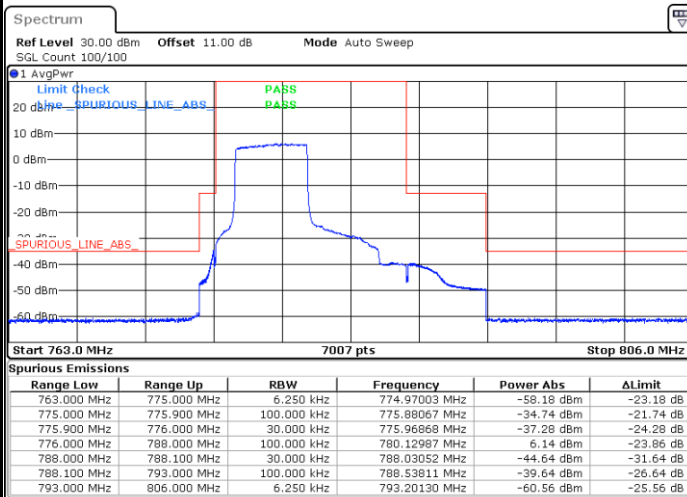
Date: 27.SEP.2020 09:10:01

Highest Band Edge / 1 RB



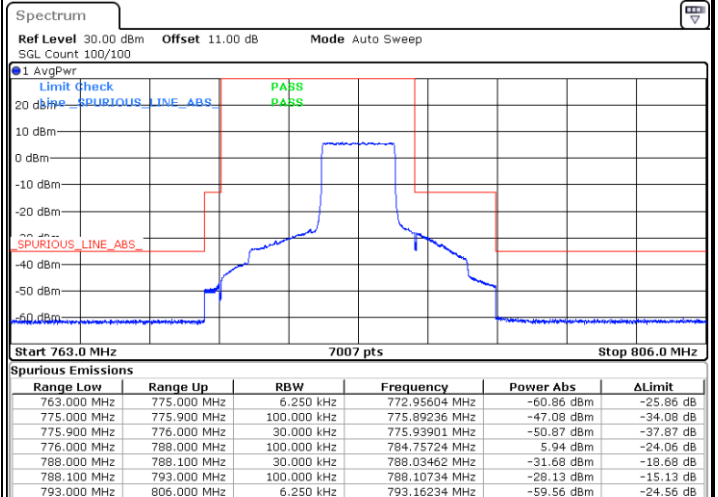
Date: 27.SEP.2020 09:19:51

Lowest Band Edge / Full RB



Date: 27.SEP.2020 09:05:01

Highest Band Edge / Full RB



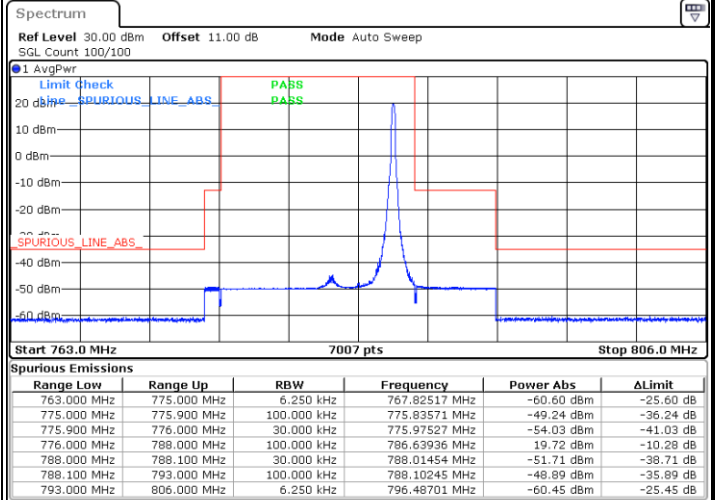
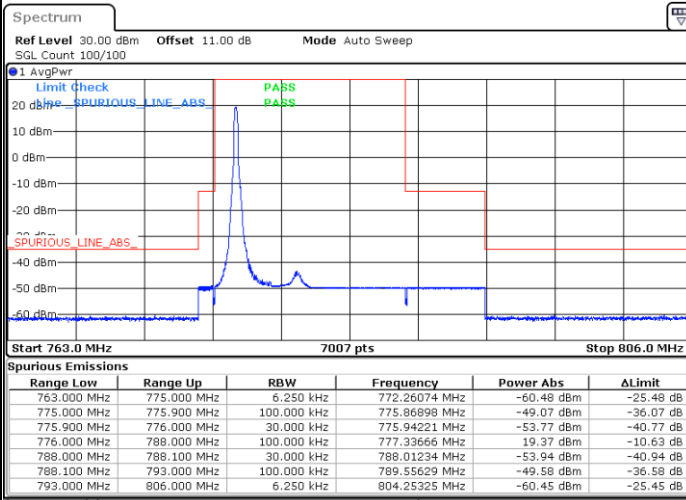
Date: 27.SEP.2020 09:14:51



LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

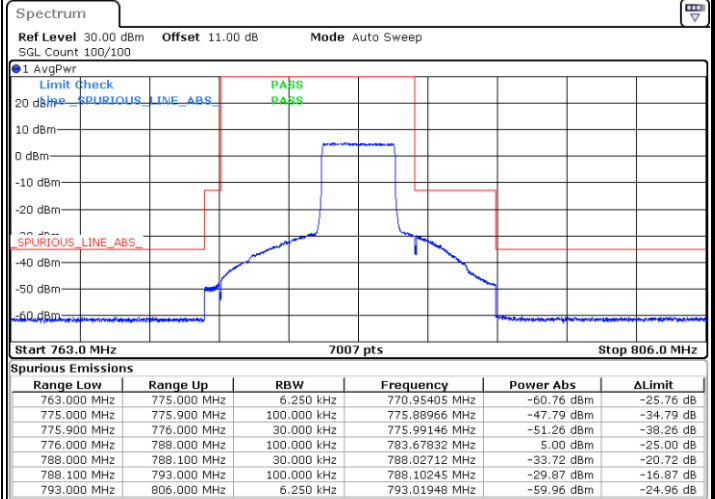
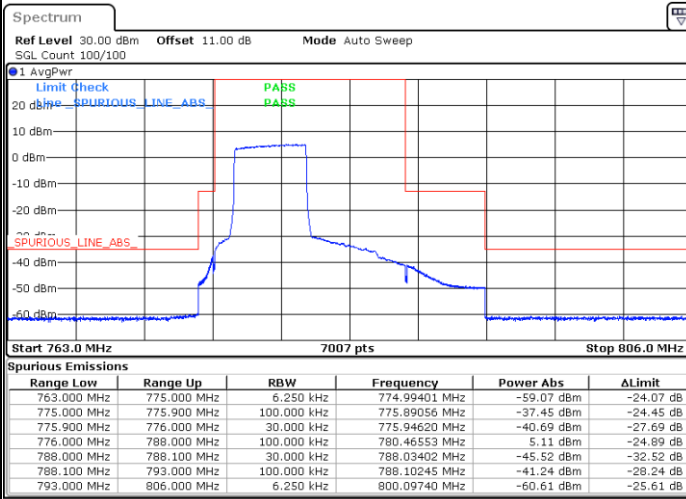


Date: 27.SEP.2020 09:08:21

Date: 27.SEP.2020 09:18:11

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 27.SEP.2020 09:06:41

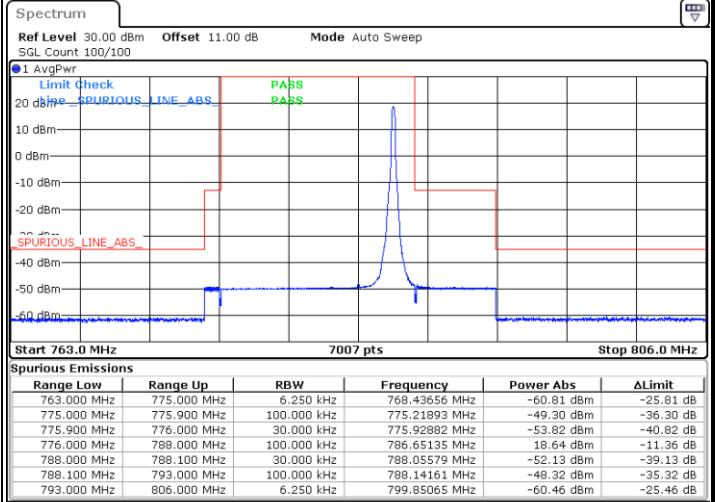
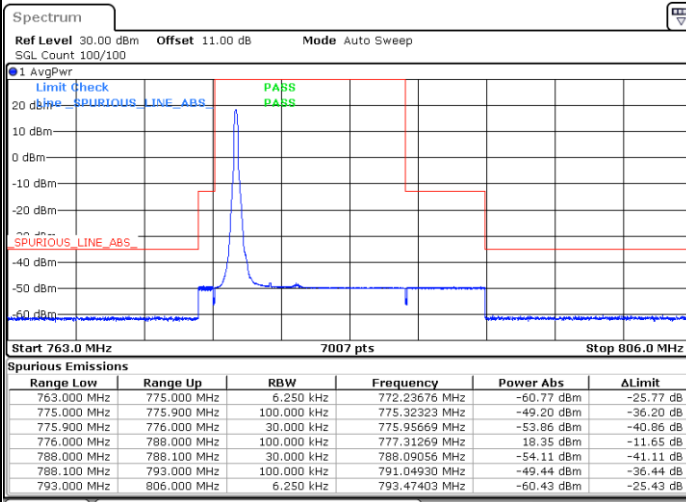
Date: 27.SEP.2020 09:16:31



LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

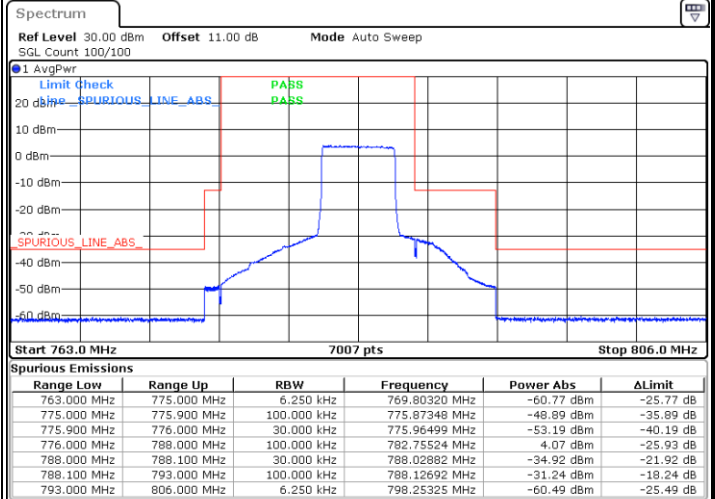
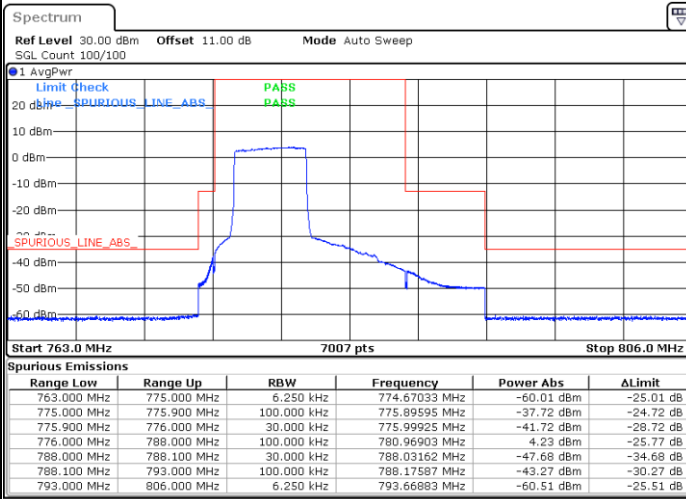


Date: 27.SEP.2020 09:24:24

Date: 27.SEP.2020 09:29:18

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 27.SEP.2020 09:22:44

Date: 27.SEP.2020 09:27:38