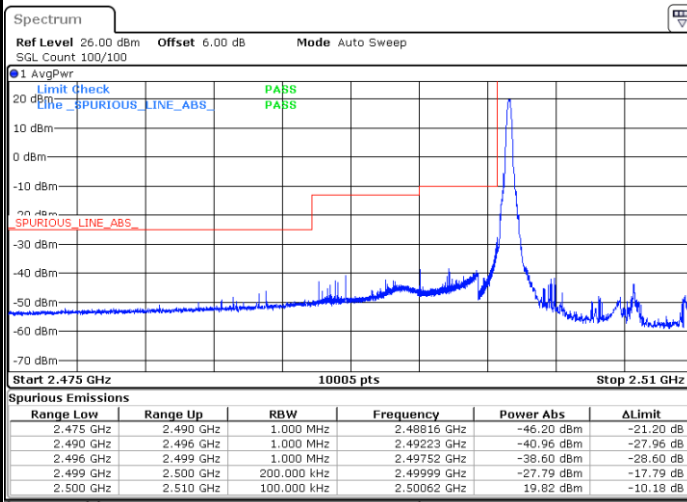




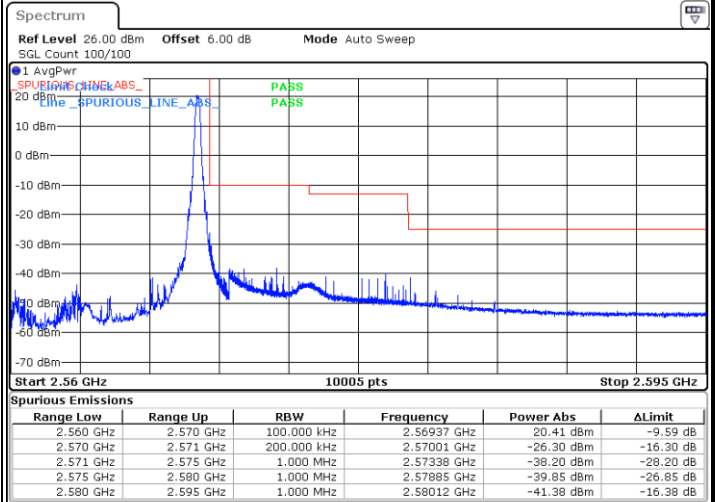
LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



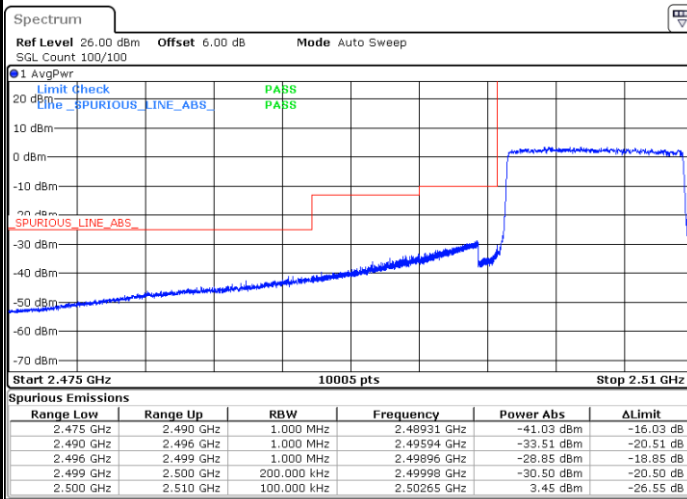
Date: 20 MAY 2020 10:44:52

Highest Band Edge / 1 RB



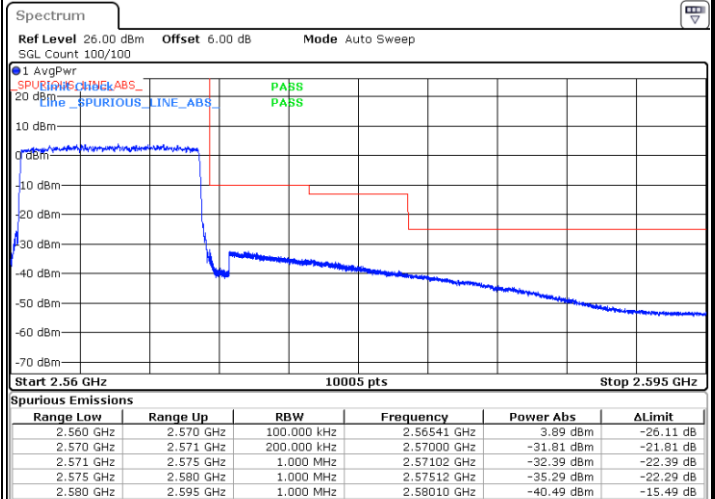
Date: 20 MAY 2020 10:50:33

Lowest Band Edge / Full RB



Date: 20 MAY 2020 10:46:00

Highest Band Edge / Full RB



Date: 20 MAY 2020 10:49:24



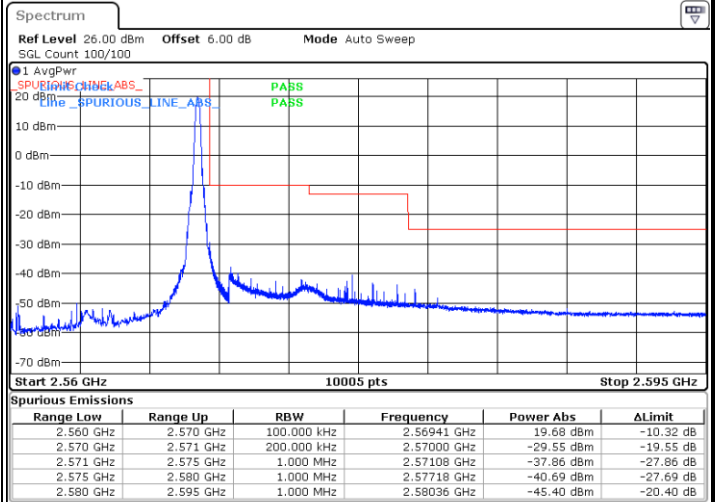
LTE Band 7 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



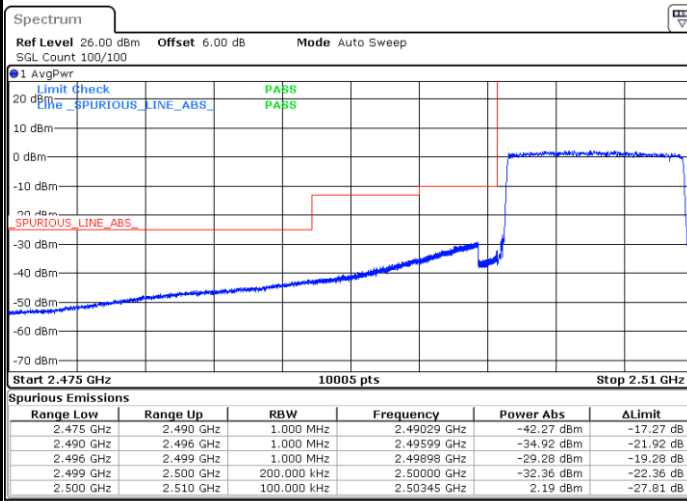
Date: 20 MAY 2020 11:43:16

Highest Band Edge / 1 RB



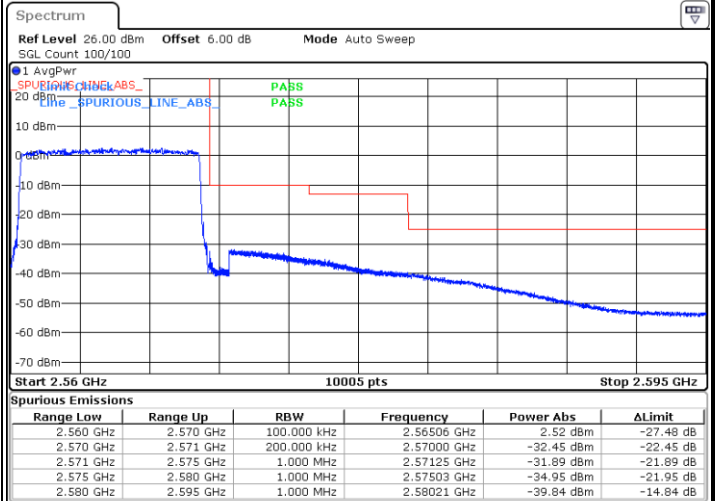
Date: 20 MAY 2020 11:45:33

Lowest Band Edge / Full RB



Date: 20 MAY 2020 11:44:25

Highest Band Edge / Full RB

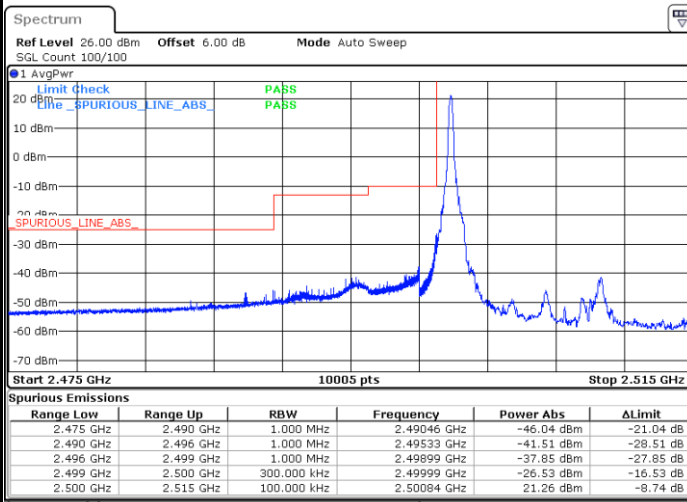


Date: 20 MAY 2020 11:46:41



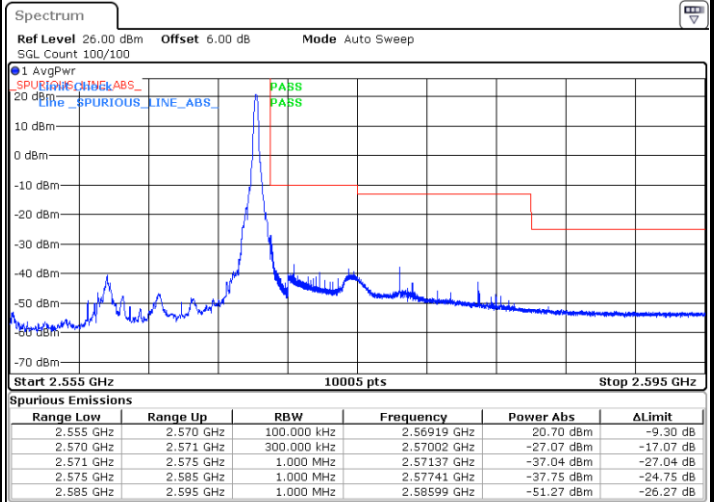
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB



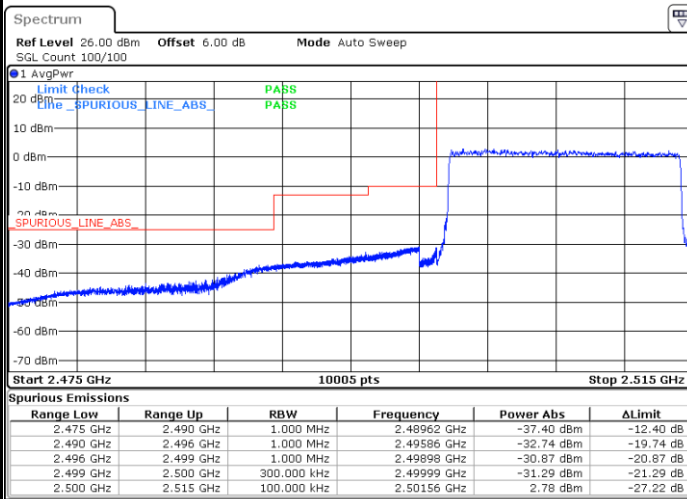
Date: 20 MAY 2020 11:00:15

Highest Band Edge / 1 RB



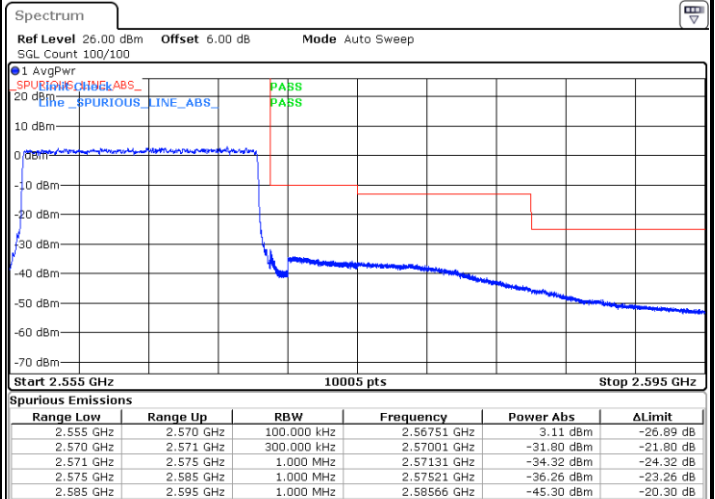
Date: 20 MAY 2020 11:08:13

Lowest Band Edge / Full RB



Date: 20 MAY 2020 11:03:40

Highest Band Edge / Full RB

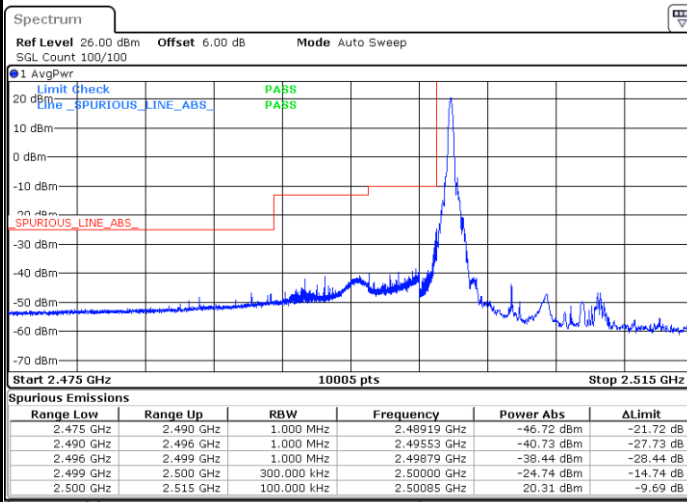


Date: 20 MAY 2020 11:04:49



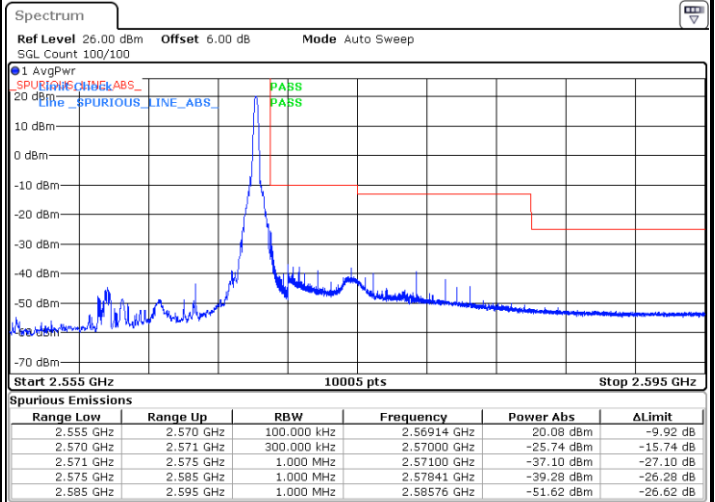
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



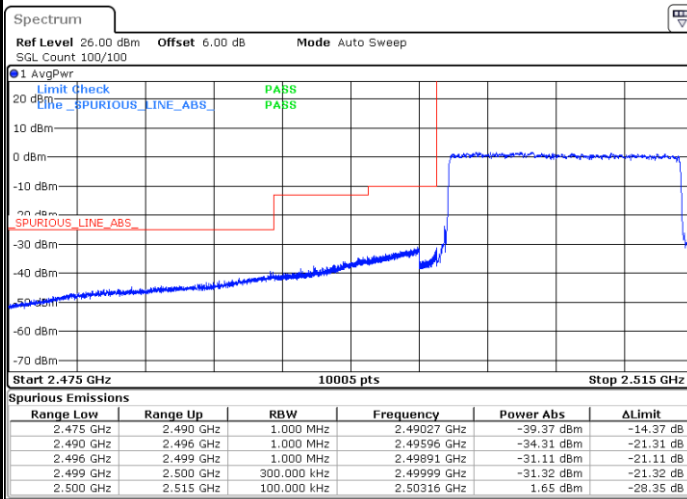
Date: 20 MAY 2020 11:01:23

Highest Band Edge / 1 RB



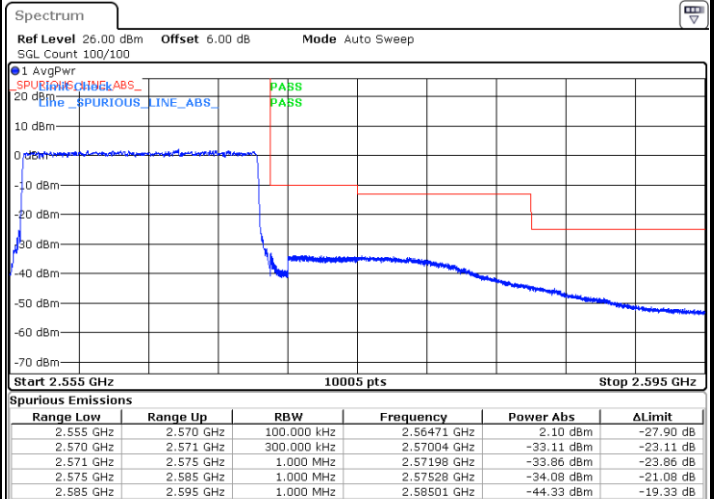
Date: 20 MAY 2020 11:07:05

Lowest Band Edge / Full RB



Date: 20 MAY 2020 11:02:32

Highest Band Edge / Full RB

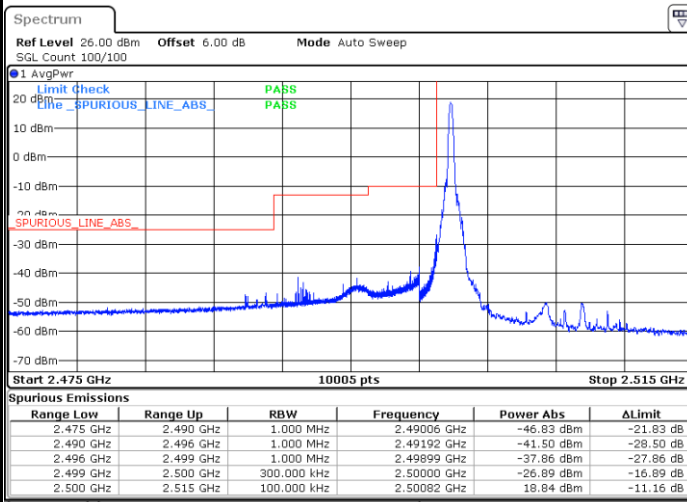


Date: 20 MAY 2020 11:05:57



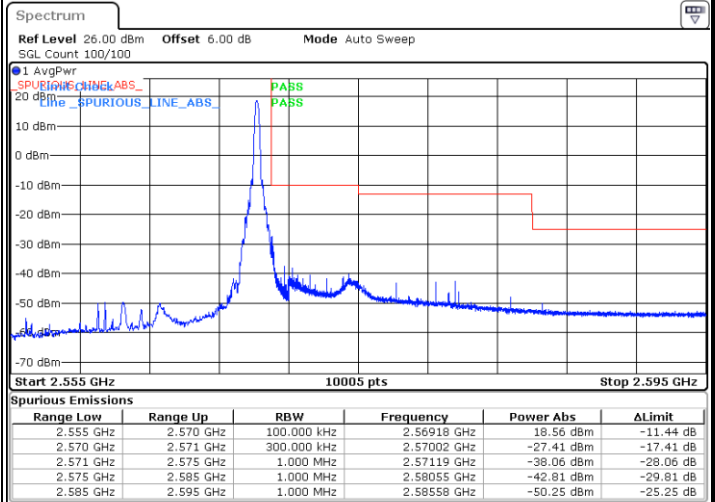
LTE Band 7 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



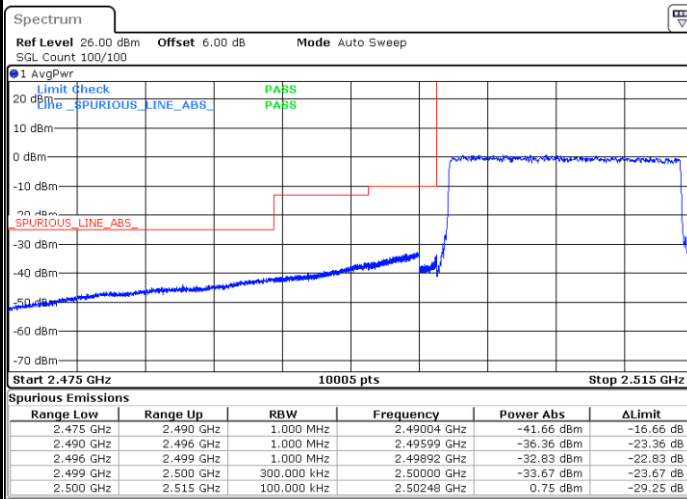
Date: 20 MAY 2020 11:49:59

Highest Band Edge / 1 RB



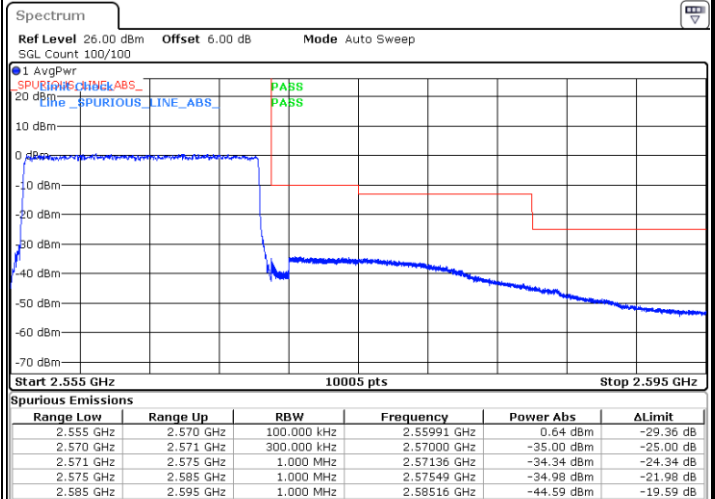
Date: 20 MAY 2020 11:52:15

Lowest Band Edge / Full RB



Date: 20 MAY 2020 11:48:50

Highest Band Edge / Full RB

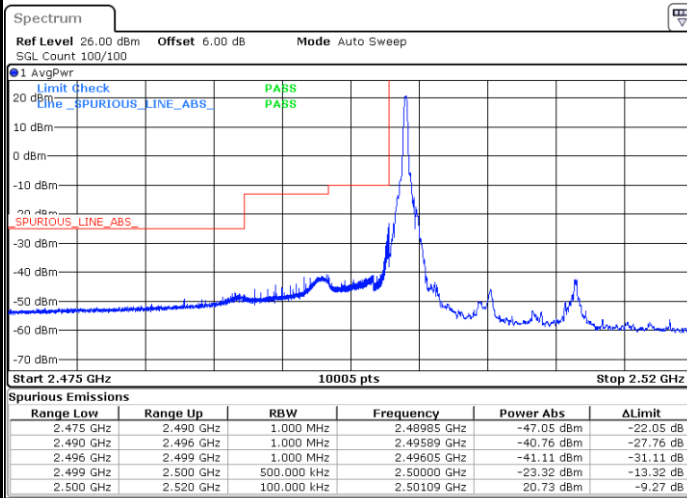


Date: 20 MAY 2020 11:51:07



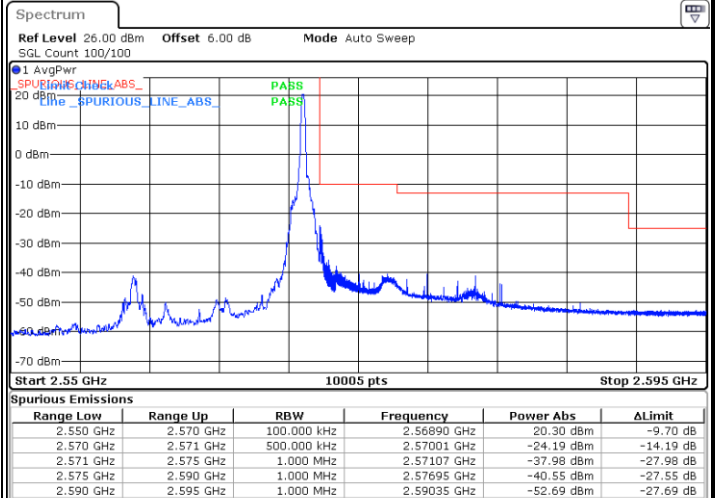
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB



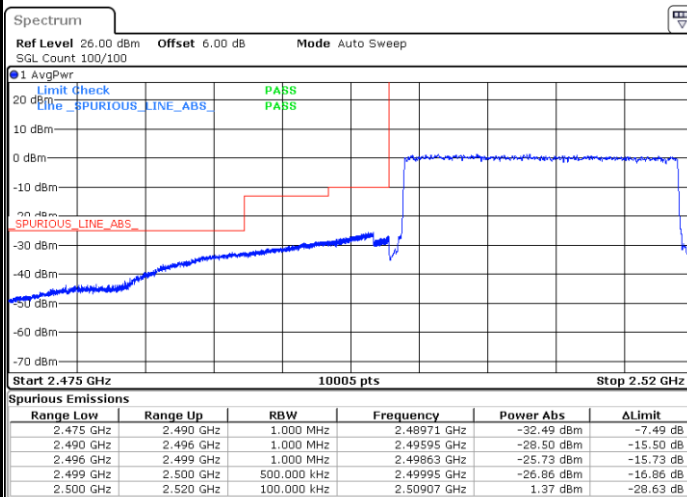
Date: 20.MAY.2020 11:16:47

Highest Band Edge / 1 RB



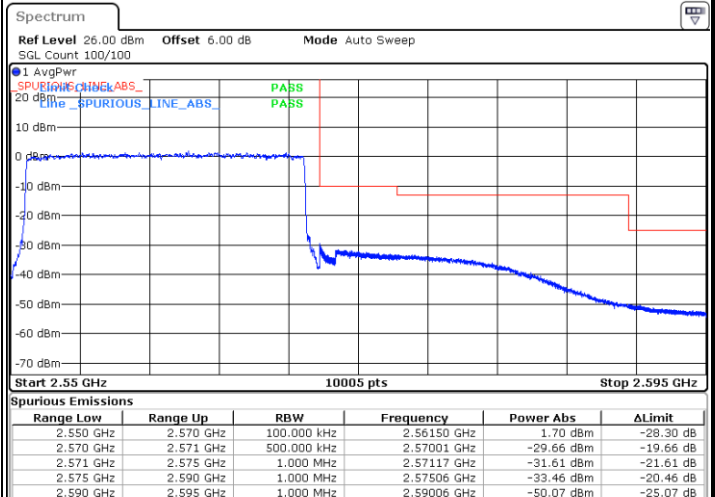
Date: 20.MAY.2020 11:24:45

Lowest Band Edge / Full RB



Date: 20.MAY.2020 11:20:13

Highest Band Edge / Full RB

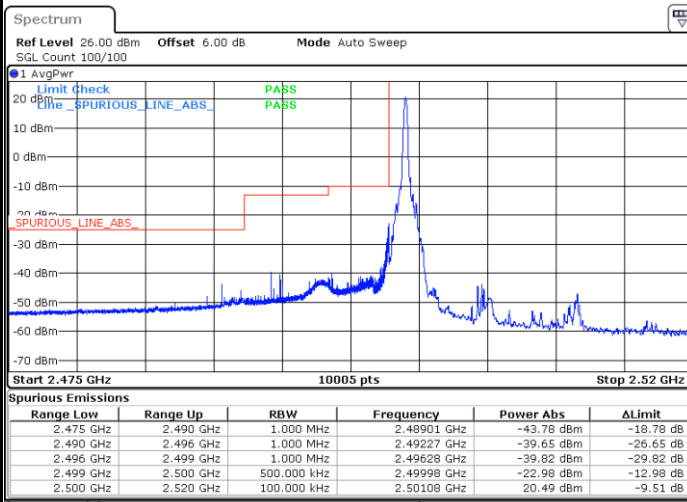


Date: 20.MAY.2020 11:21:21



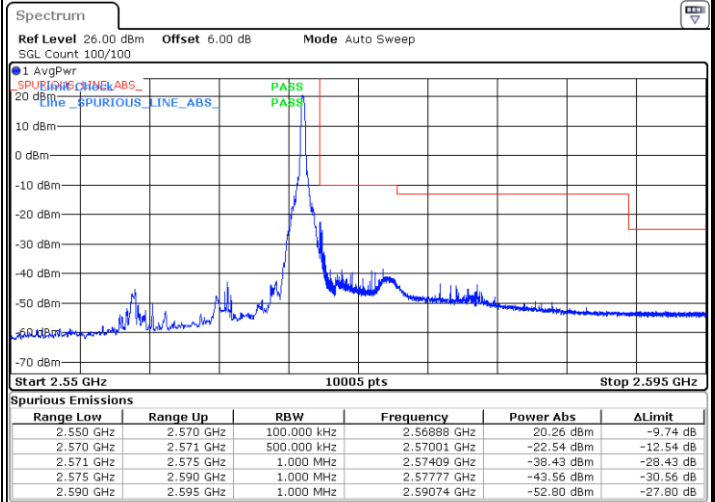
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



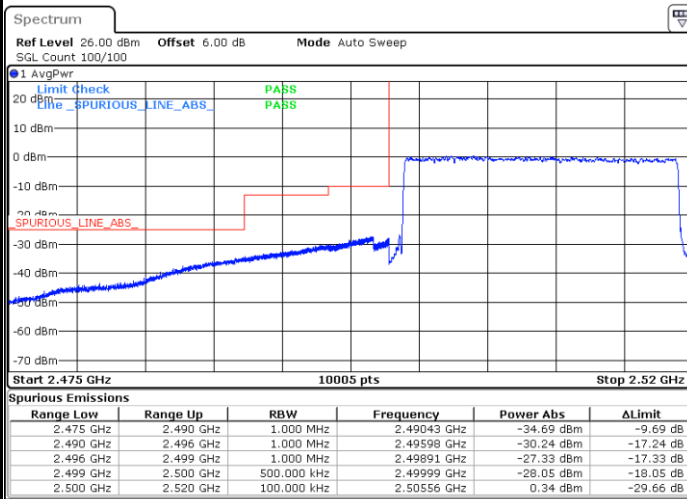
Date: 20 MAY 2020 11:17:55

Highest Band Edge / 1RB



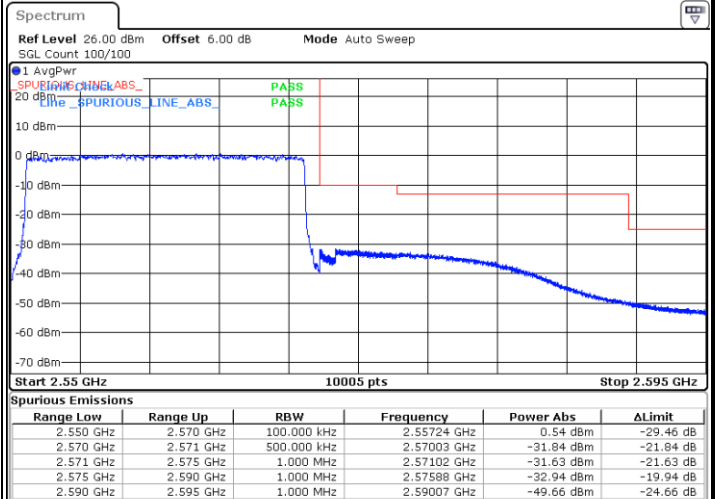
Date: 20 MAY 2020 11:23:37

Lowest Band Edge / Full RB



Date: 20 MAY 2020 11:19:04

Highest Band Edge / Full RB

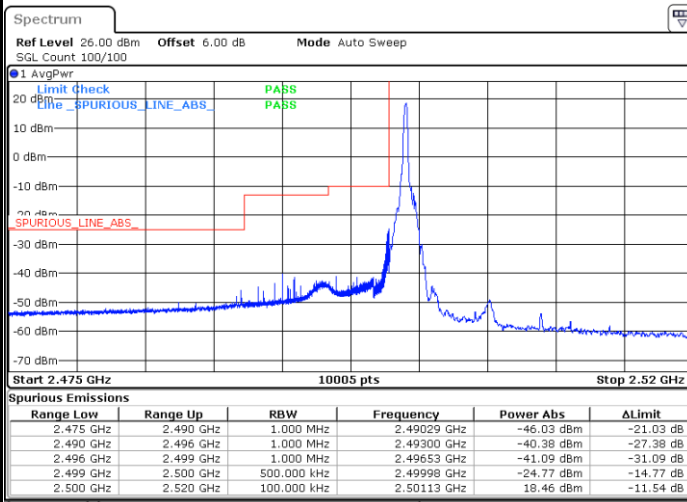


Date: 20 MAY 2020 11:22:29



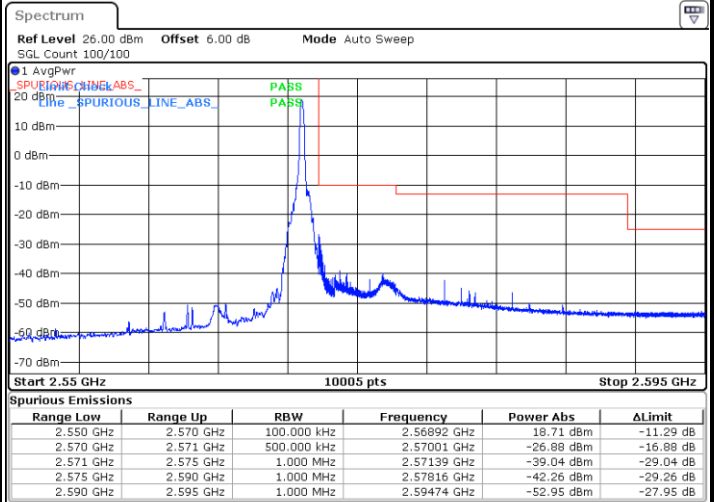
LTE Band 7 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



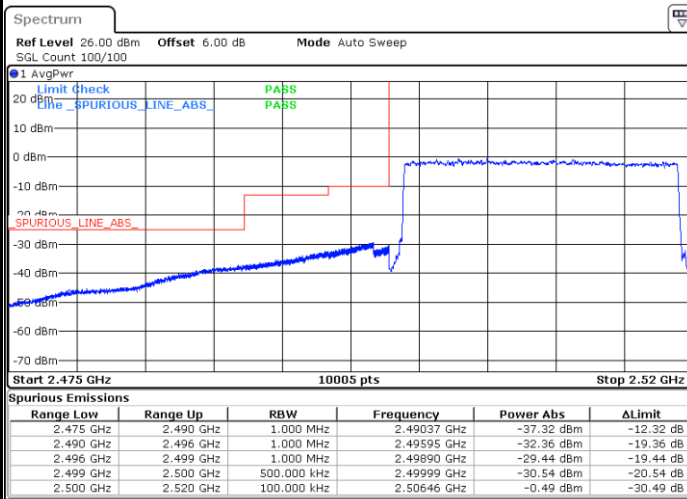
Date: 20 MAY 2020 11:58:15

Highest Band Edge / 1 RB



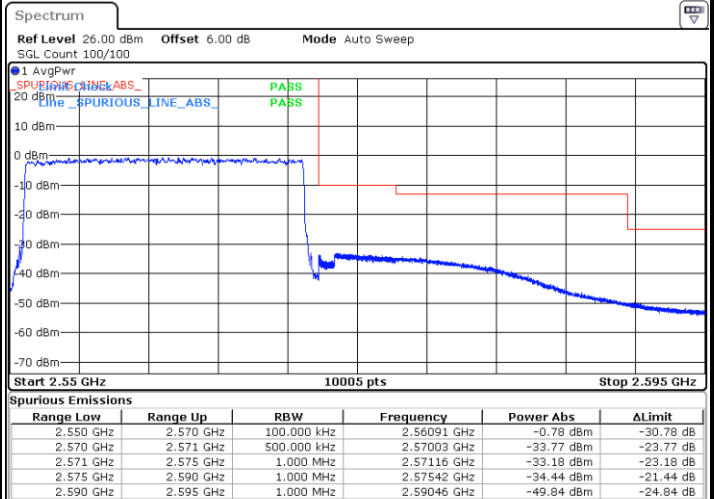
Date: 20 MAY 2020 12:00:32

Lowest Band Edge / Full RB



Date: 20 MAY 2020 11:57:07

Highest Band Edge / Full RB

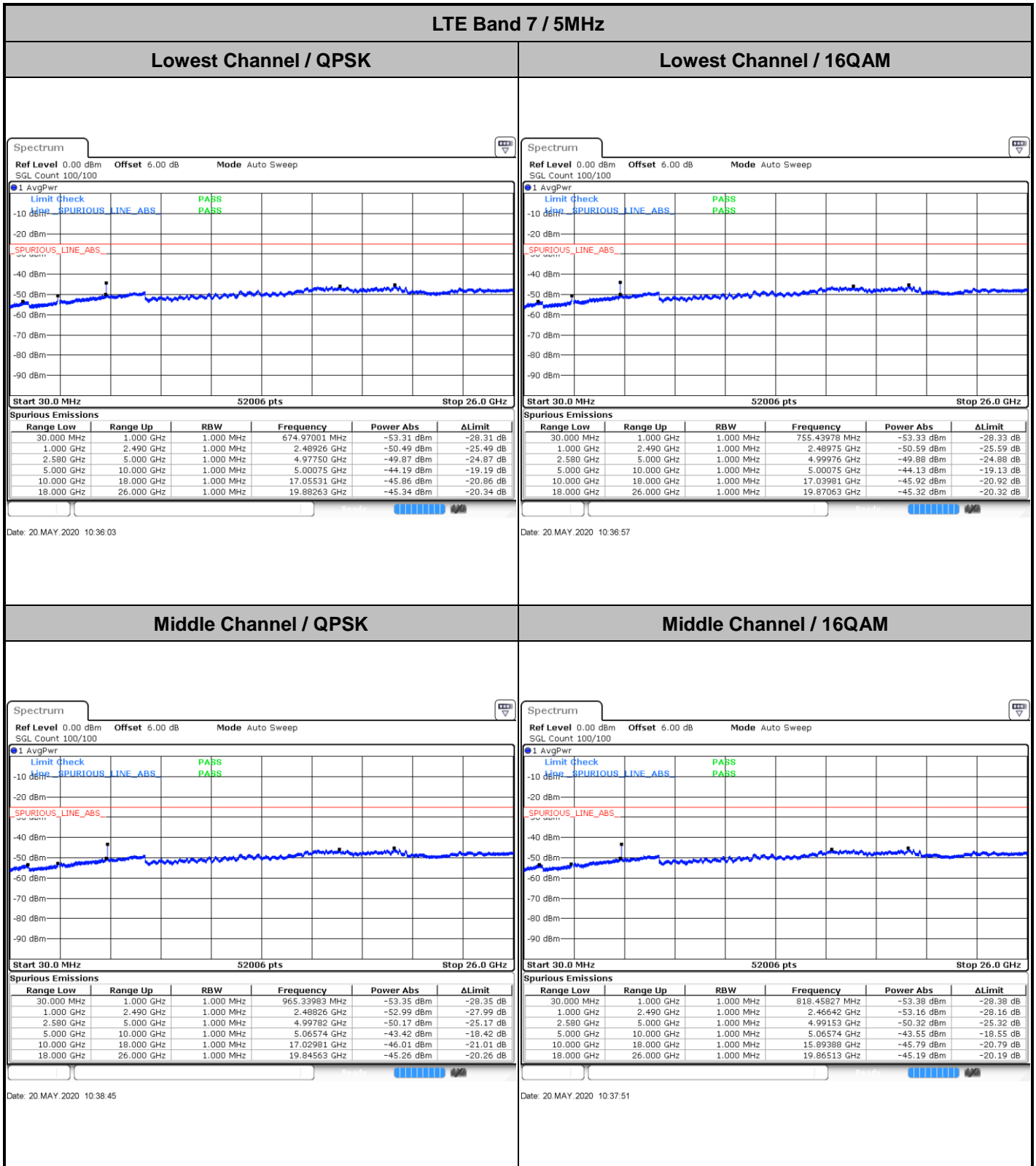


Date: 20 MAY 2020 11:59:23





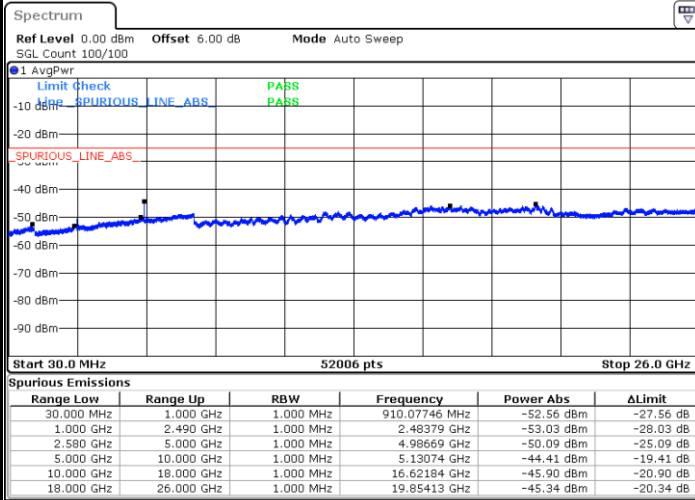
# Conducted Spurious Emission





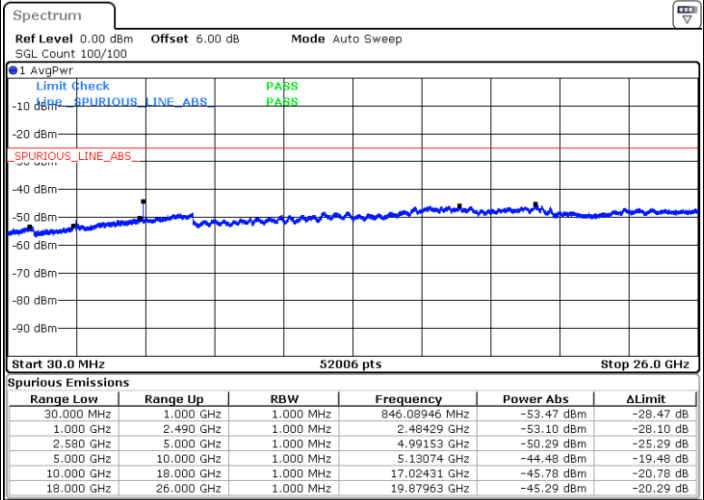
LTE Band 7 / 5MHz

Highest Channel / QPSK



Date: 20 MAY 2020 10:39:39

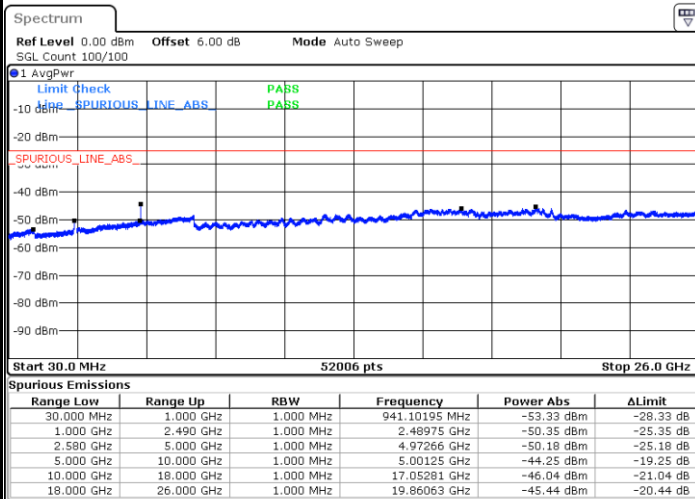
Highest Channel / 16QAM



Date: 20 MAY 2020 10:40:33

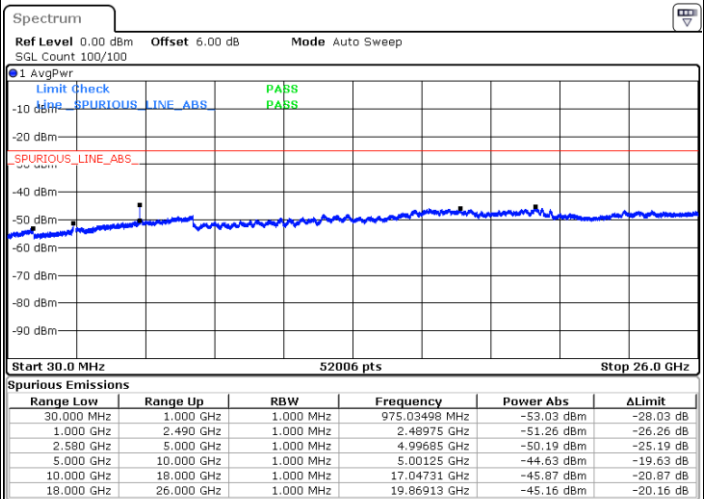
LTE Band 7 / 10MHz

Lowest Channel / QPSK



Date: 20 MAY 2020 10:52:34

Lowest Channel / 16QAM



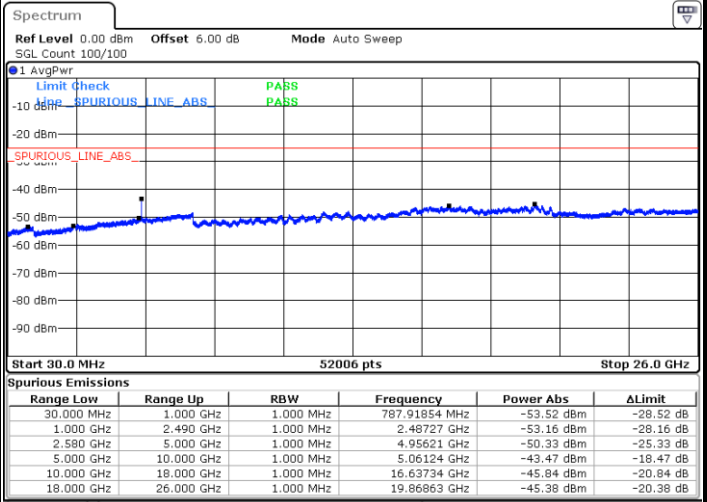
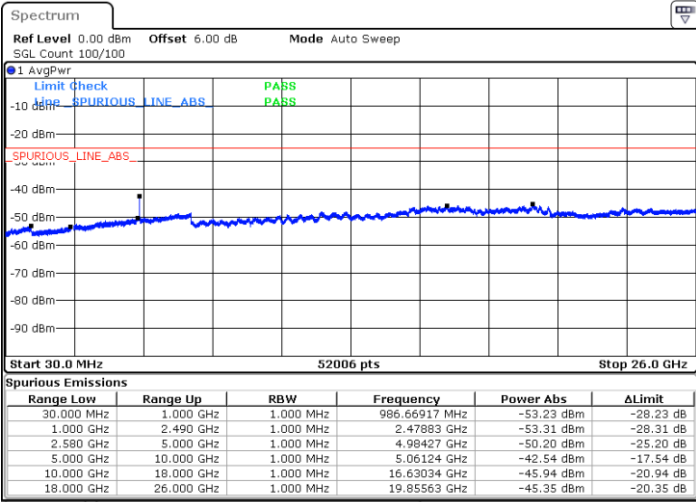
Date: 20 MAY 2020 10:53:28



LTE Band 7 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

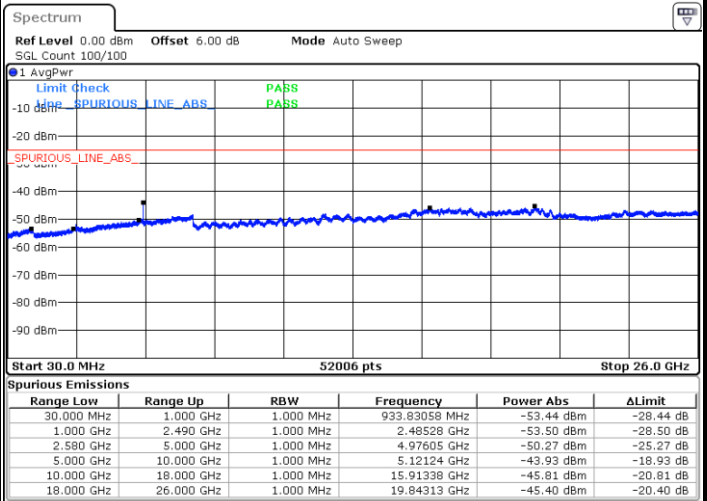
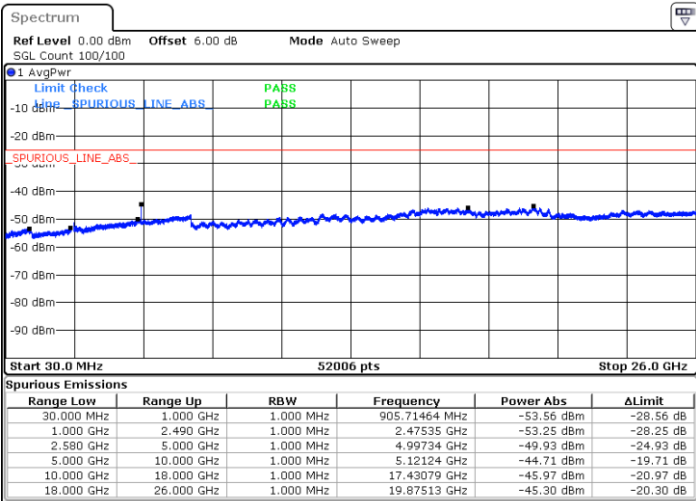


Date: 20 MAY 2020 10:55:16

Date: 20 MAY 2020 10:54:22

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 20 MAY 2020 10:56:10

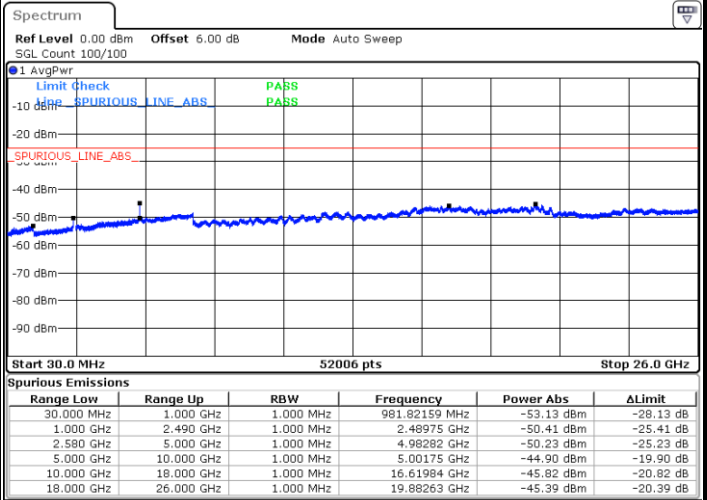
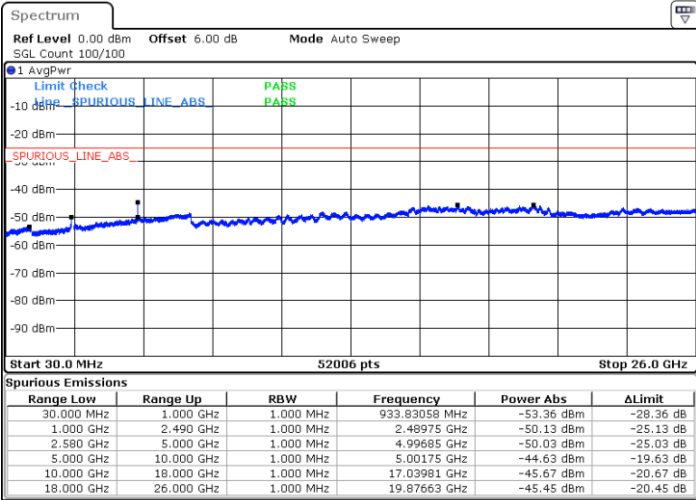
Date: 20 MAY 2020 10:57:04



LTE Band 7 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

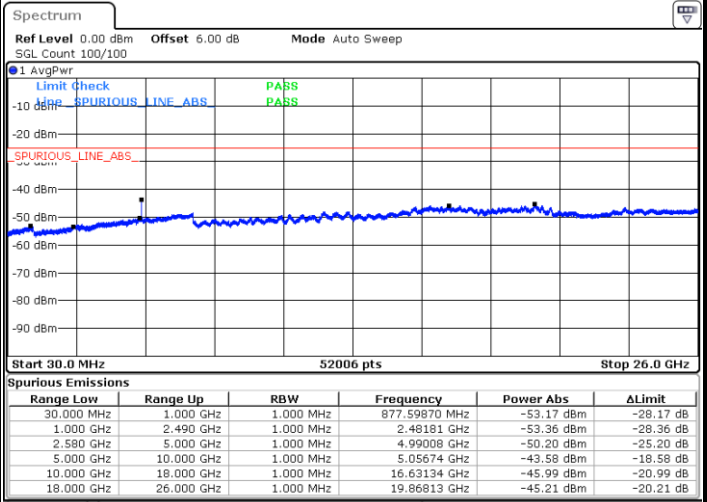
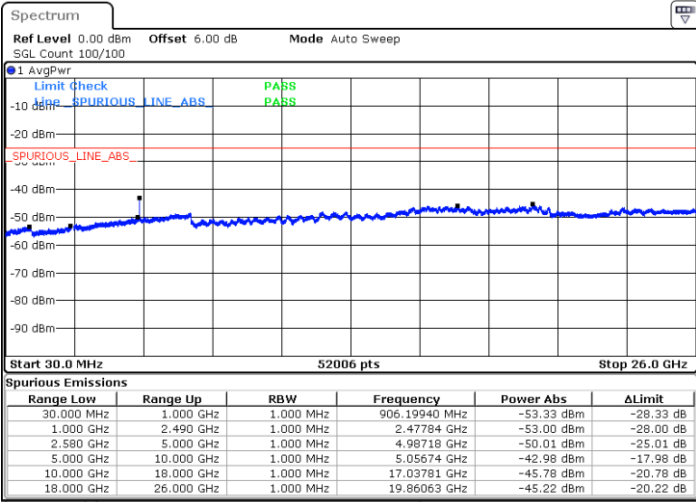


Date: 20 MAY 2020 11:09:06

Date: 20 MAY 2020 11:10:00

Middle Channel / QPSK

Middle Channel / 16QAM



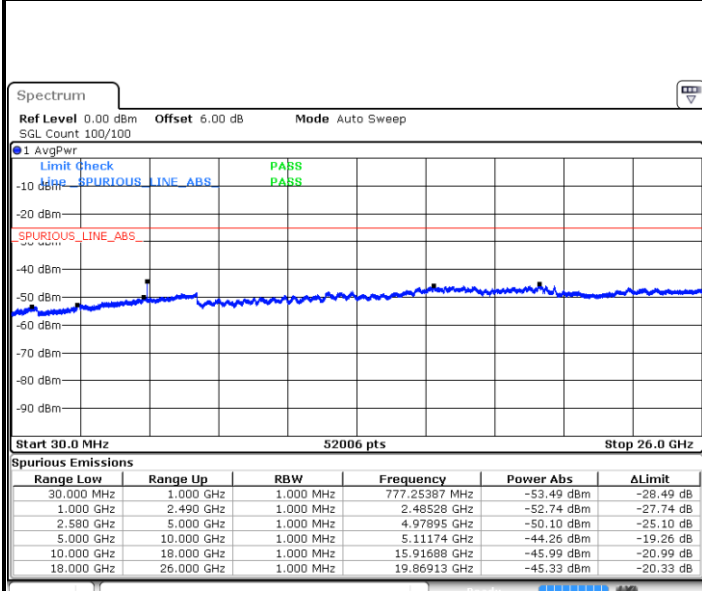
Date: 20 MAY 2020 11:11:48

Date: 20 MAY 2020 11:10:54



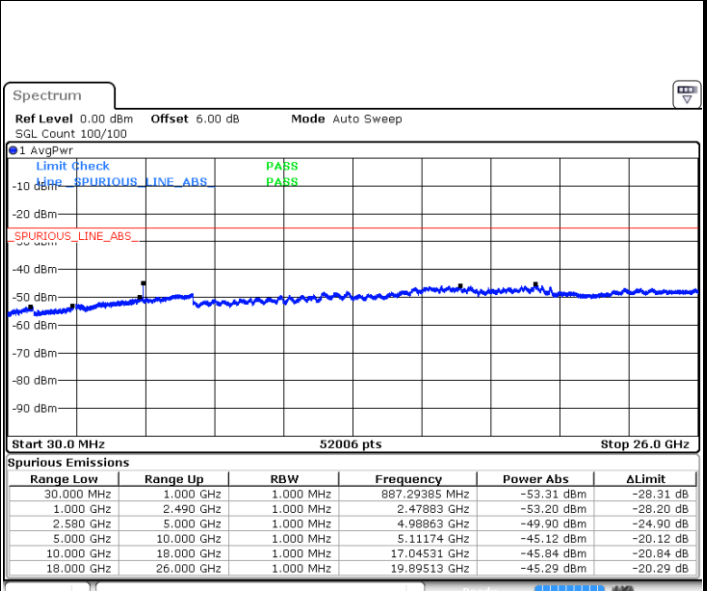
LTE Band 7 / 15MHz

Highest Channel / QPSK



Date: 20 MAY 2020 11:12:42

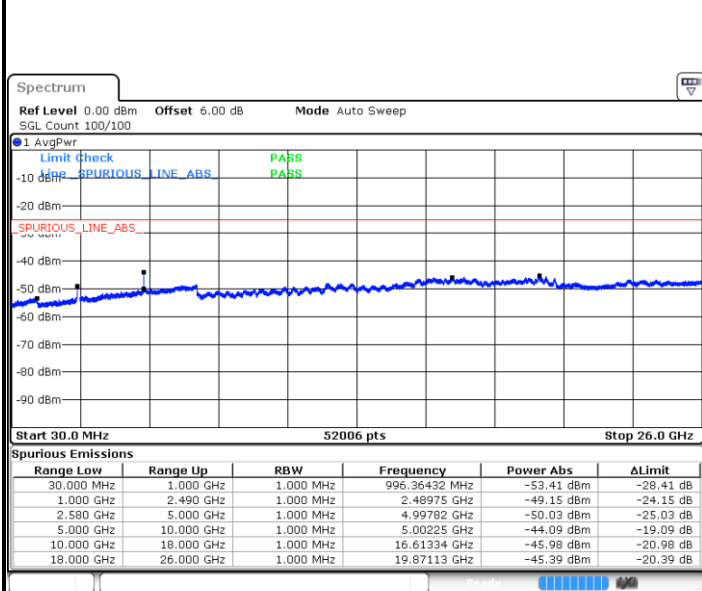
Highest Channel / 16QAM



Date: 20 MAY 2020 11:13:36

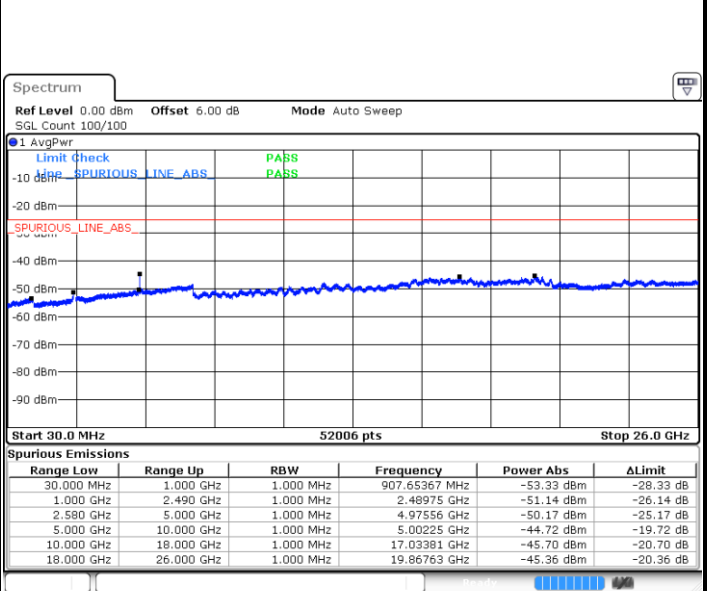
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 20 MAY 2020 11:25:38

Lowest Channel / 16QAM



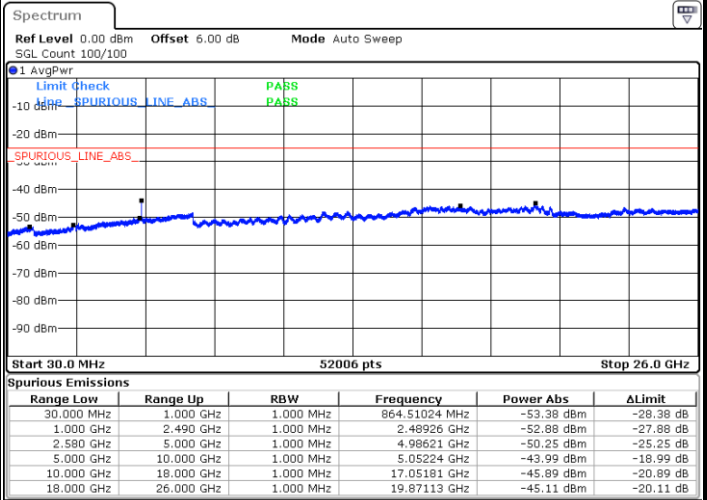
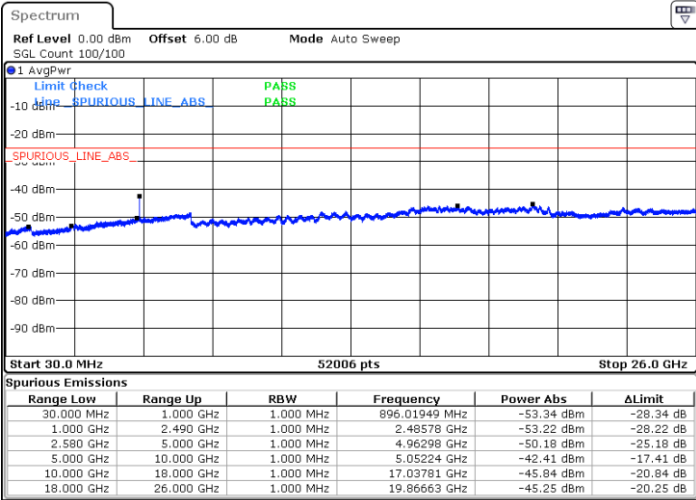
Date: 20 MAY 2020 11:26:32



LTE Band 7 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

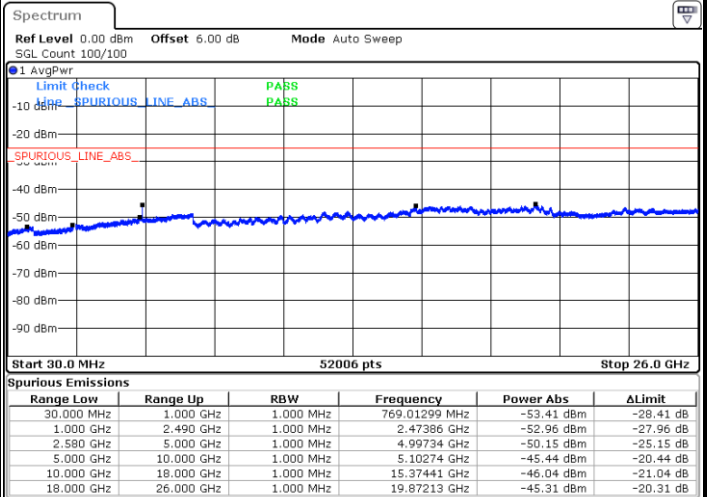
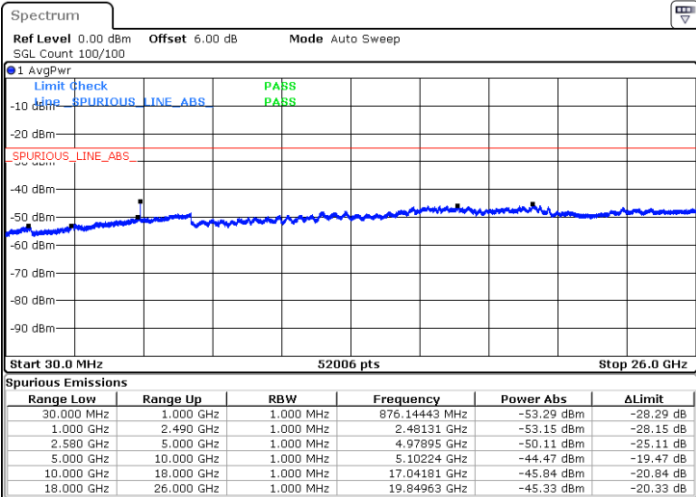


Date: 20 MAY 2020 11:28:20

Date: 20 MAY 2020 11:27:26

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 20 MAY 2020 11:29:14

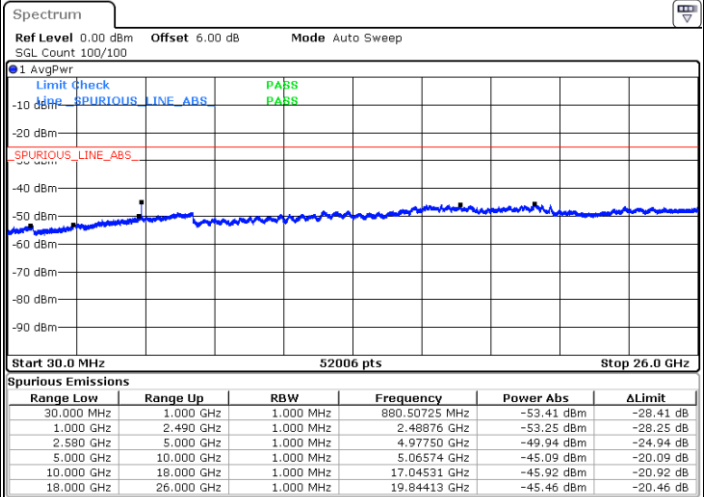
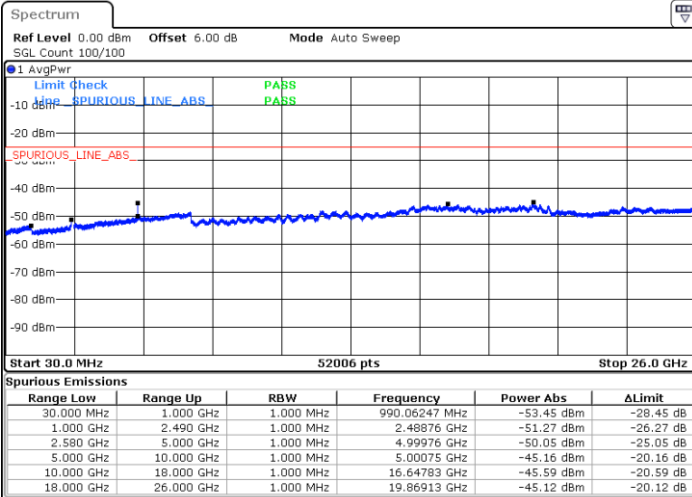
Date: 20 MAY 2020 11:30:08



LTE Band 7 / 5MHz

Lowest Channel / 64QAM

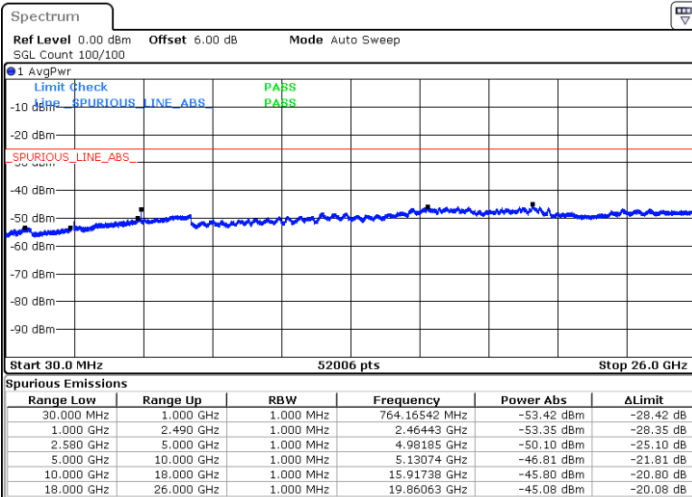
Middle Channel / 64QAM



Date: 20 MAY 2020 11:32:03

Date: 20 MAY 2020 11:32:57

Highest Channel / 64QAM



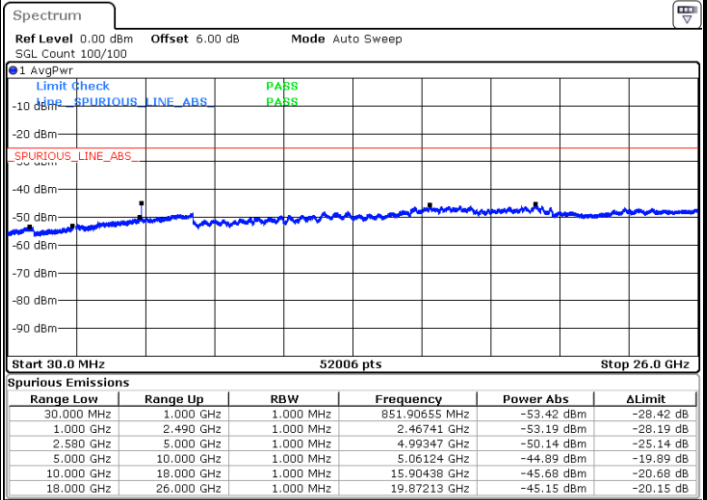
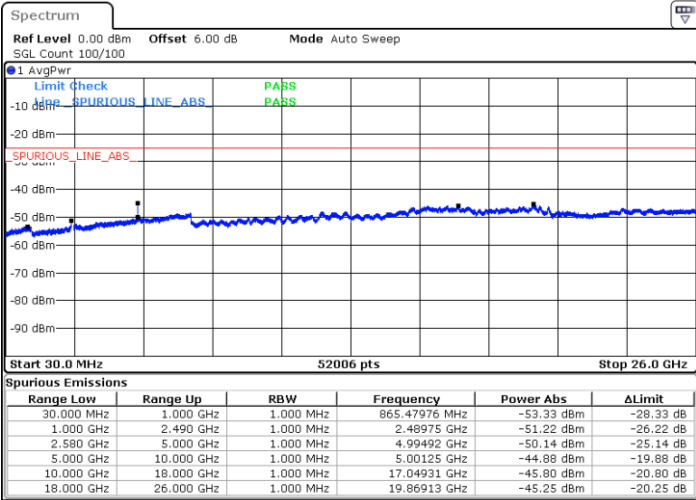
Date: 20 MAY 2020 11:33:51



LTE Band 7 / 10MHz

Lowest Channel / 64QAM

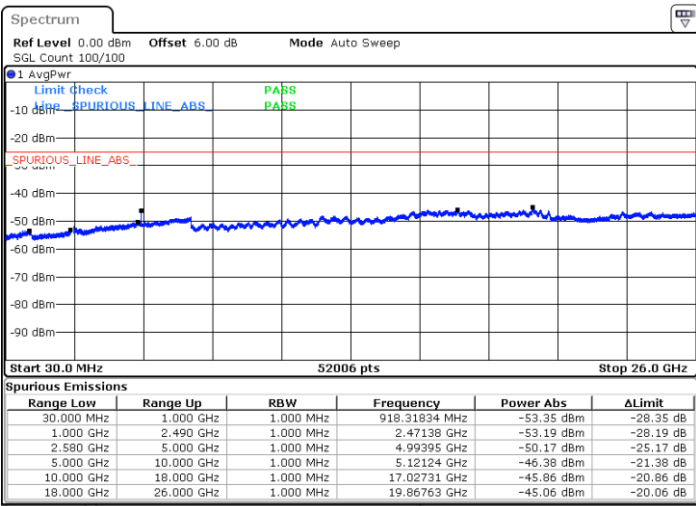
Middle Channel / 64QAM



Date: 20 MAY 2020 11:40:19

Date: 20 MAY 2020 11:41:13

Highest Channel / 64QAM



Date: 20 MAY 2020 11:42:07

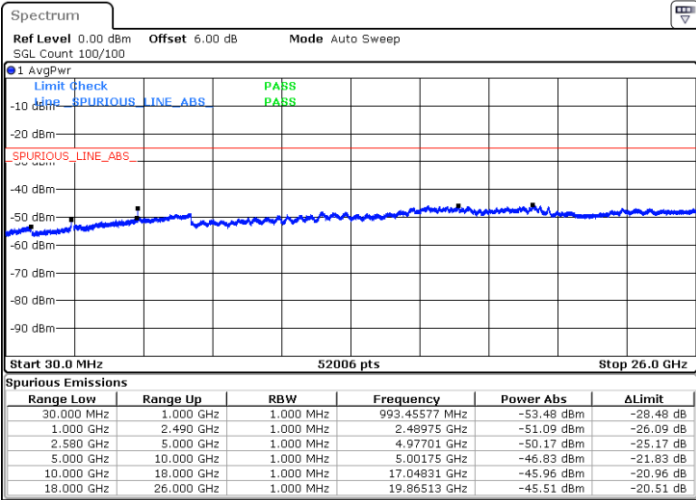




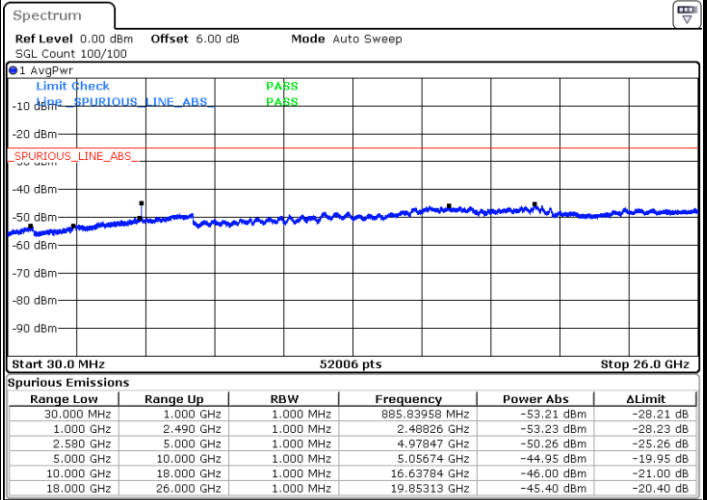
LTE Band 7 / 15MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

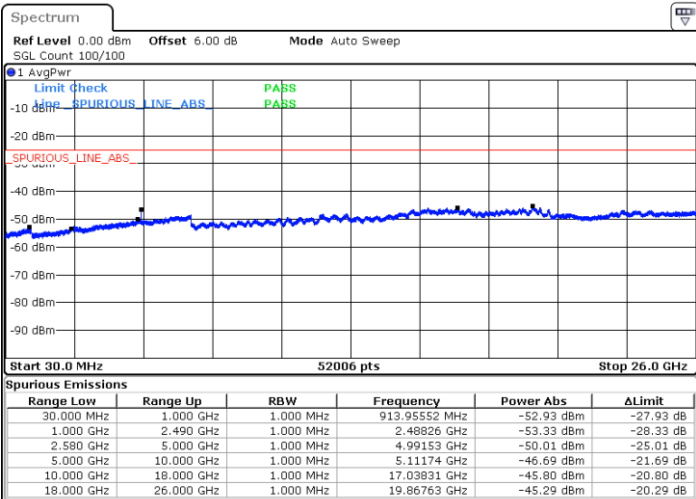


Date: 20 MAY 2020 11:53:08



Date: 20 MAY 2020 11:54:02

Highest Channel / 64QAM



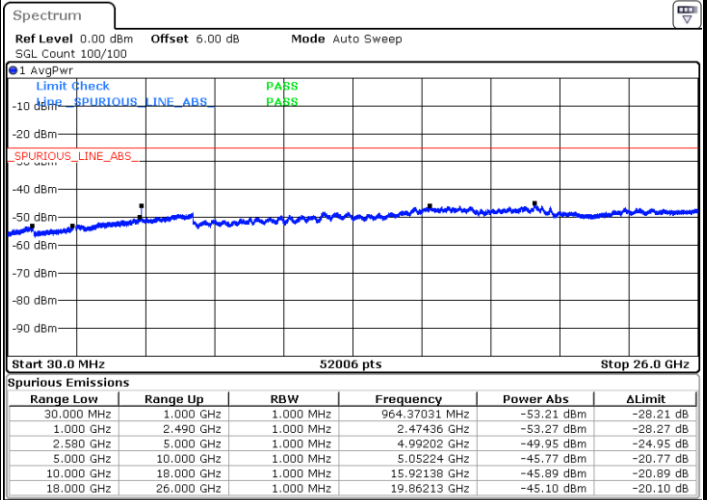
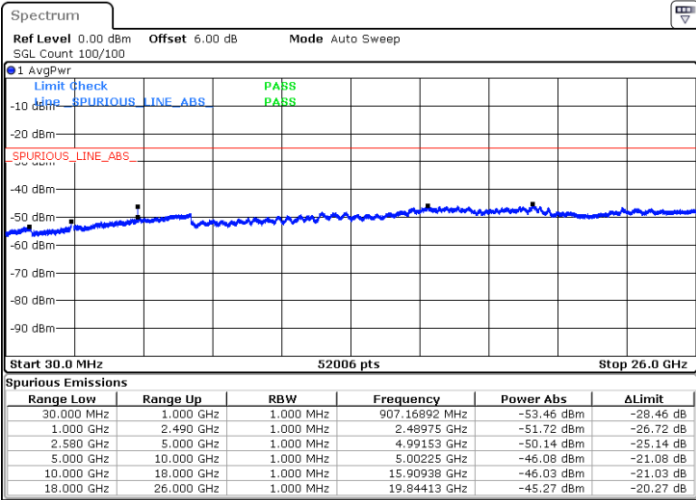
Date: 20 MAY 2020 11:54:56



LTE Band 7 / 20MHz

Lowest Channel / 64QAM

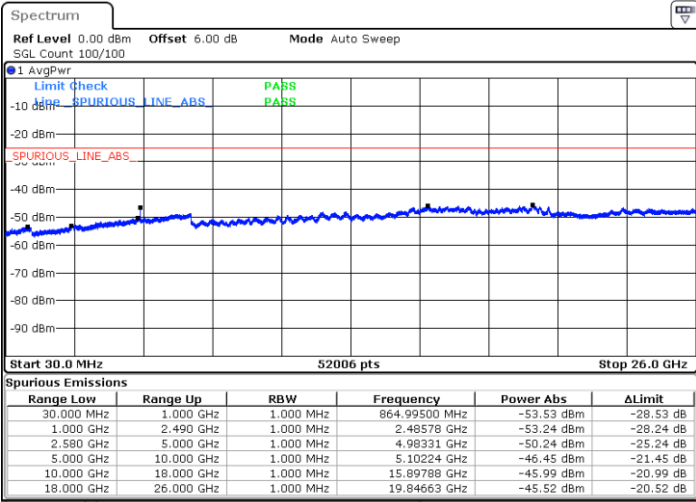
Middle Channel / 64QAM



Date: 20 MAY 2020 12:01:24

Date: 20 MAY 2020 12:02:19

Highest Channel / 64QAM



Date: 20 MAY 2020 12:03:13



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	0.0022	PASS
40	Normal Voltage	0.0027	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0019	
0	Normal Voltage	0.0032	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0020	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0025	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 12

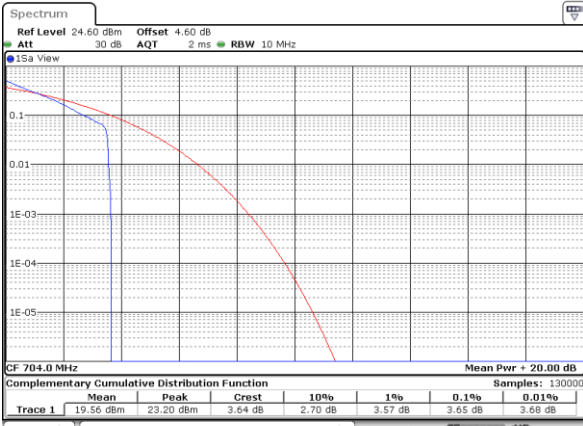
## Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.65	5.01	5.28	5.83	PASS
Middle CH	3.57	5.16	5.07	5.88	
Highest CH	3.54	4.93	5.25	5.86	
Mode	LTE Band 12 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.22	5.86	-	-	PASS
Middle CH	5.28	5.91	-	-	
Highest CH	5.59	5.88	-	-	



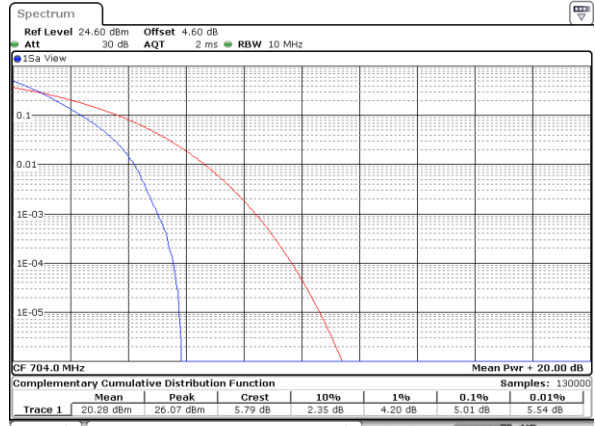
LTE Band 12 / 10MHz / QPSK

Lowest Channel / 1RB



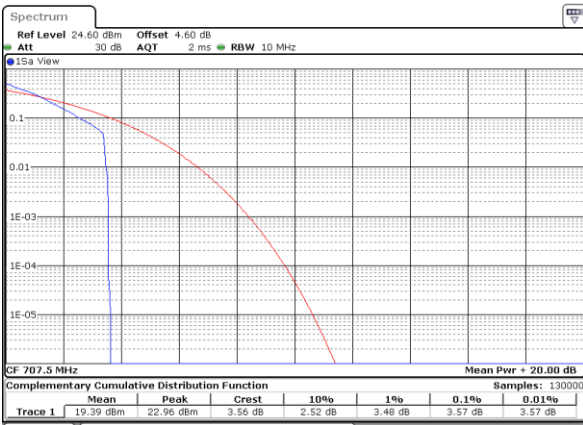
Date: 20 MAY 2020 16:43:10

Lowest Channel / Full RB



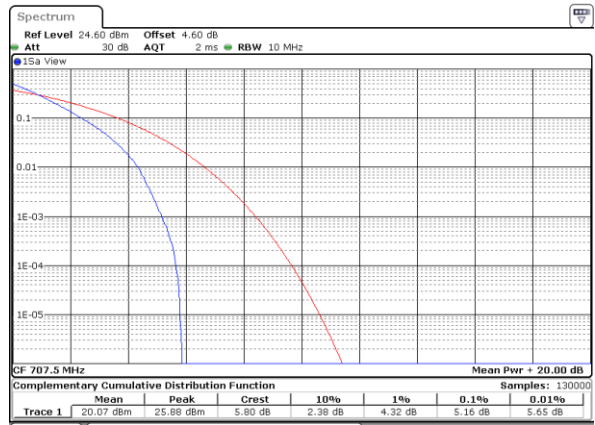
Date: 20 MAY 2020 16:44:18

Middle Channel / 1RB



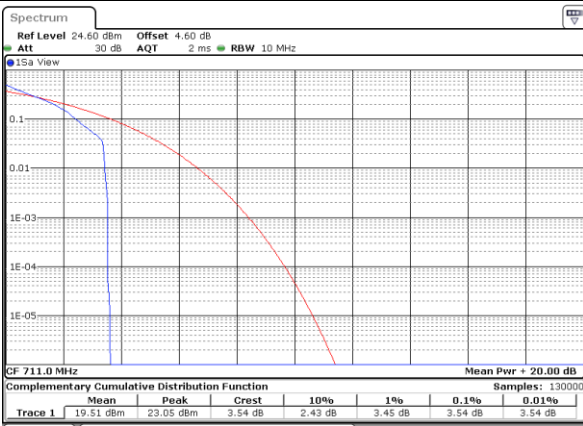
Date: 20 MAY 2020 16:44:58

Middle Channel / Full RB



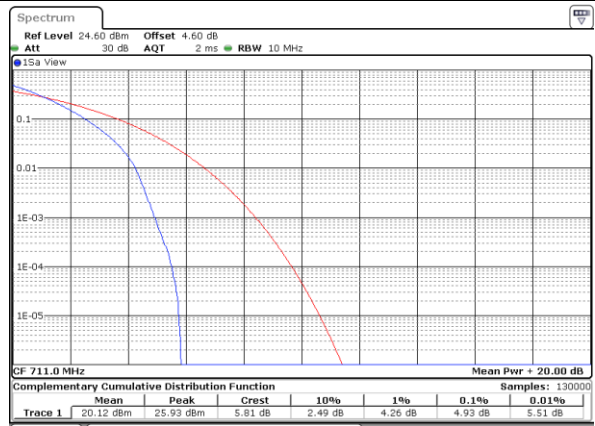
Date: 20 MAY 2020 16:44:48

Highest Channel / 1RB



Date: 20 MAY 2020 16:46:50

Highest Channel / Full RB



Date: 20 MAY 2020 16:47:01



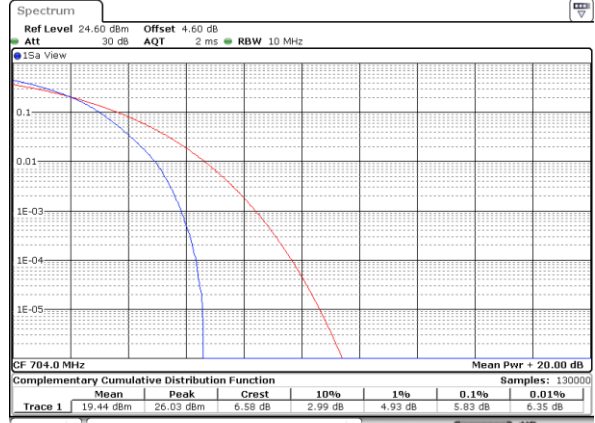
LTE Band 12 / 10MHz / 16QAM

Lowest Channel / 1RB



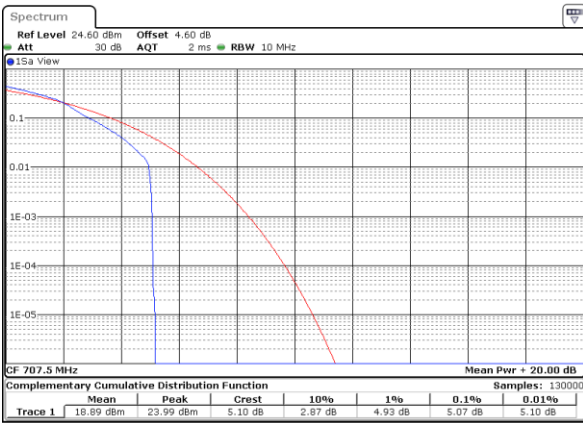
Date: 20 MAY 2020 16:42:47

Lowest Channel / Full RB



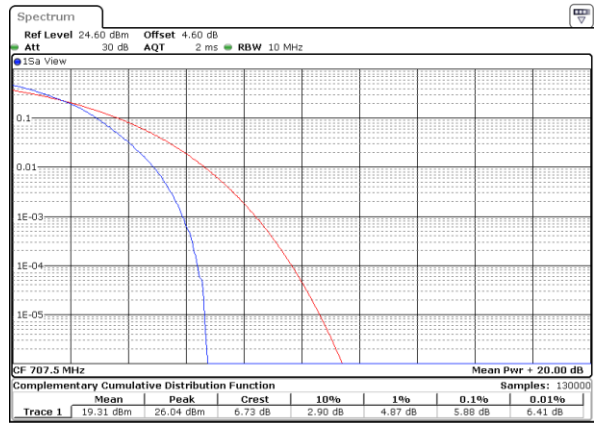
Date: 20 MAY 2020 16:44:27

Middle Channel / 1RB



Date: 20 MAY 2020 16:45:08

Middle Channel / Full RB



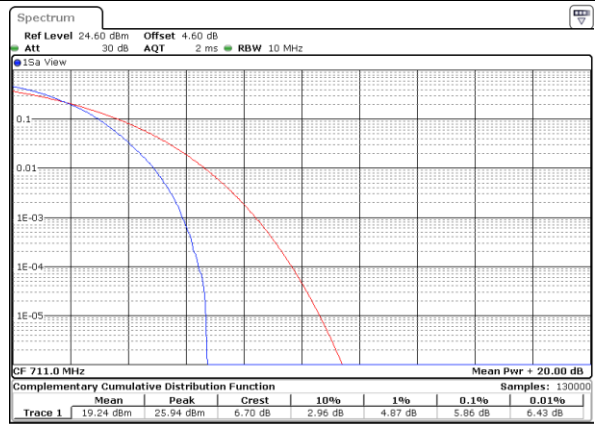
Date: 20 MAY 2020 16:44:36

Highest Channel / 1RB



Date: 20 MAY 2020 16:46:37

Highest Channel / Full RB

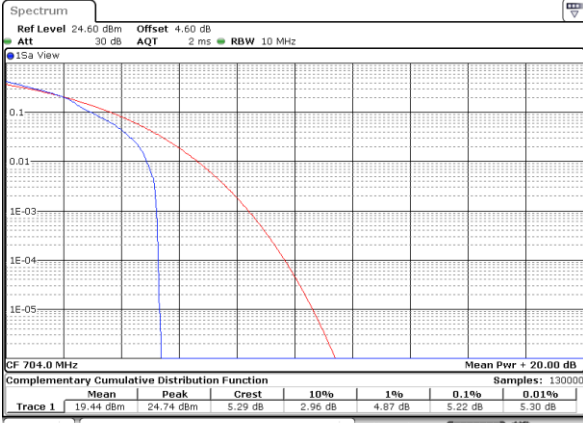


Date: 20 MAY 2020 16:49:52



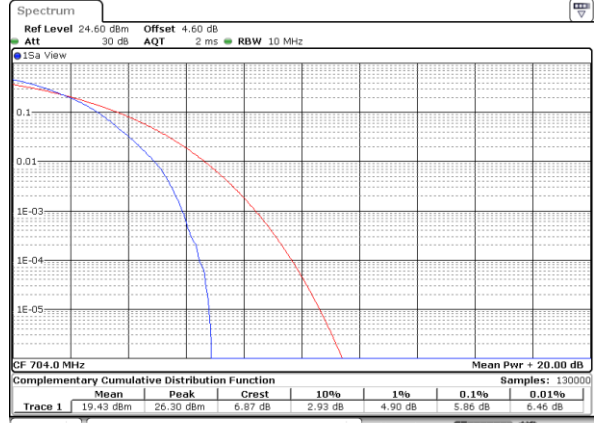
LTE Band 12 / 10MHz / 64QAM

Lowest Channel / 1RB



Date: 20 MAY 2020 16:41:33

Lowest Channel / Full RB



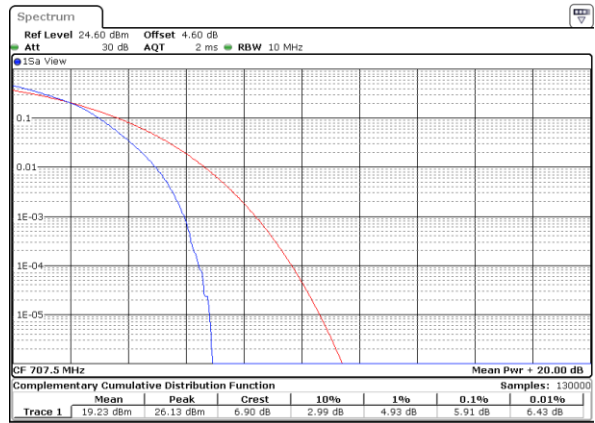
Date: 20 MAY 2020 16:41:41

Middle Channel / 1RB



Date: 20 MAY 2020 16:42:13

Middle Channel / Full RB



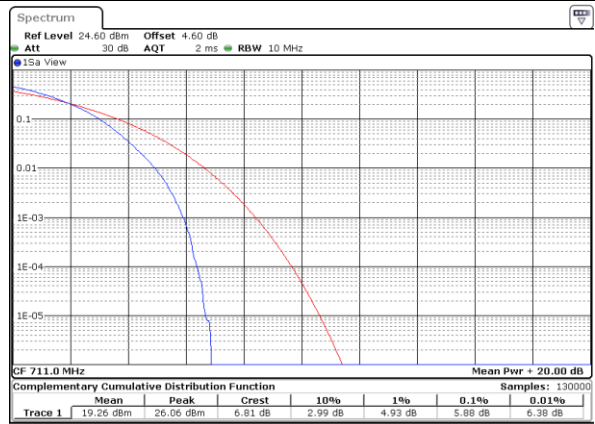
Date: 20 MAY 2020 16:41:53

Highest Channel / 1RB



Date: 20 MAY 2020 16:42:22

Highest Channel / Full RB



Date: 20 MAY 2020 16:42:32



**26dB Bandwidth**

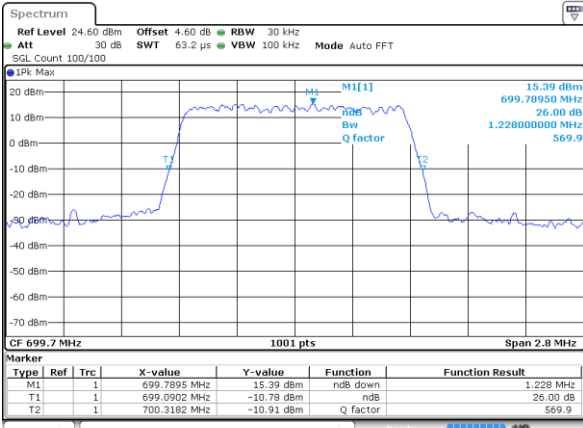
Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.23	1.21	2.99	2.97	4.90	4.84	9.77	9.87	-	-	-	-
Middle CH	1.23	1.22	3.06	3.02	4.94	4.81	9.71	9.83	-	-	-	-
Highest CH	1.22	1.21	3.02	3.01	4.91	4.92	9.65	9.75	-	-	-	-
Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.23	-	3.03	-	4.79	-	9.77	-	-	-	-	-
Middle CH	1.22	-	3.05	-	4.85	-	9.63	-	-	-	-	-
Highest CH	1.22	-	3.03	-	4.94	-	9.67	-	-	-	-	-





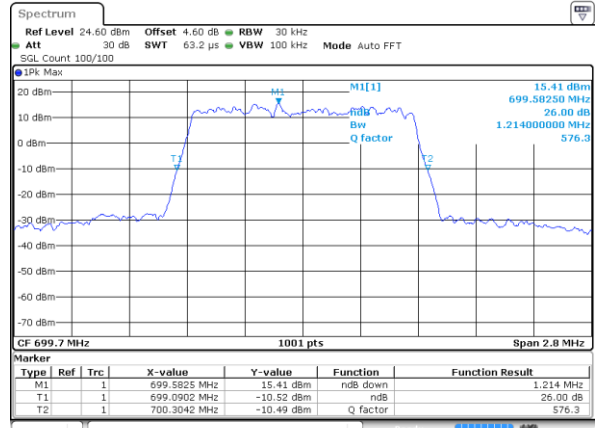
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



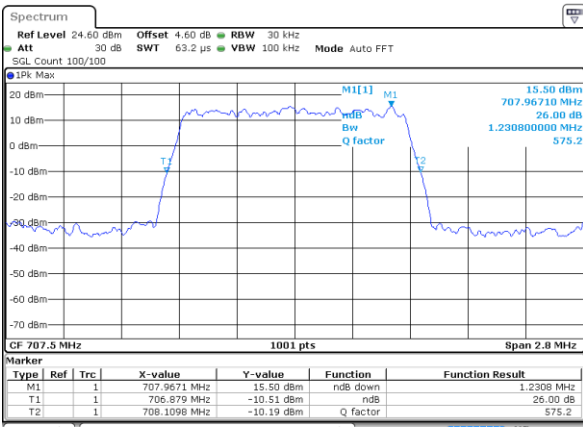
Date: 20 MAY 2020 14:45:58

Lowest Channel / 1.4MHz / 16QAM



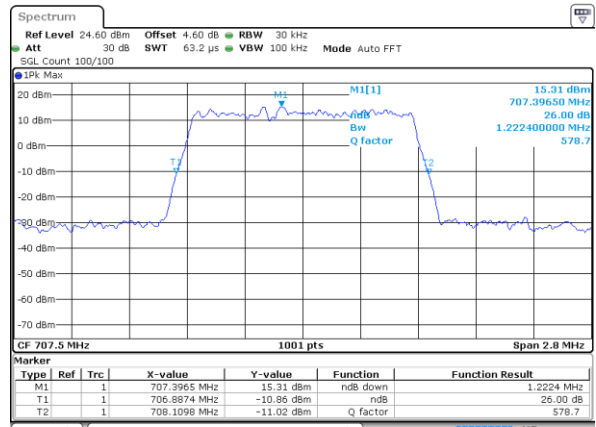
Date: 20 MAY 2020 14:45:48

Middle Channel / 1.4MHz / QPSK



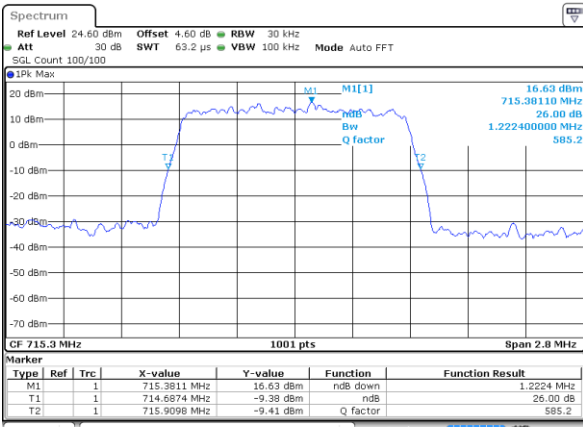
Date: 20 MAY 2020 14:45:28

Middle Channel / 1.4MHz / 16QAM



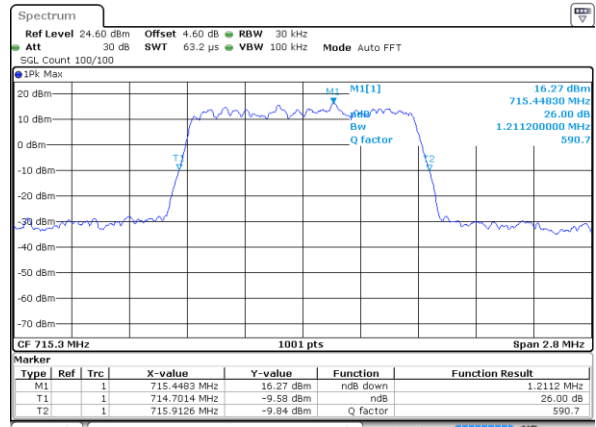
Date: 20 MAY 2020 14:45:38

Highest Channel / 1.4MHz / QPSK



Date: 20 MAY 2020 14:45:18

Highest Channel / 1.4MHz / 16QAM

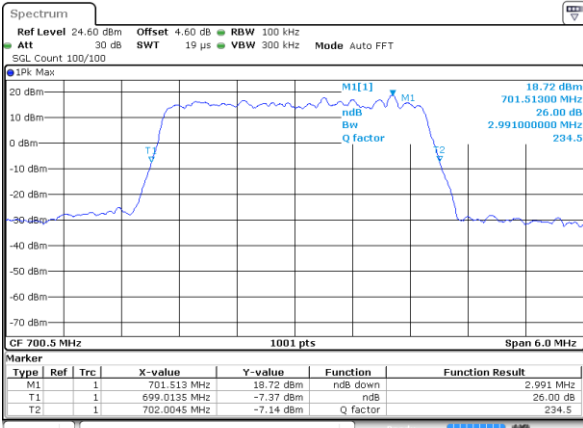


Date: 20 MAY 2020 14:45:08



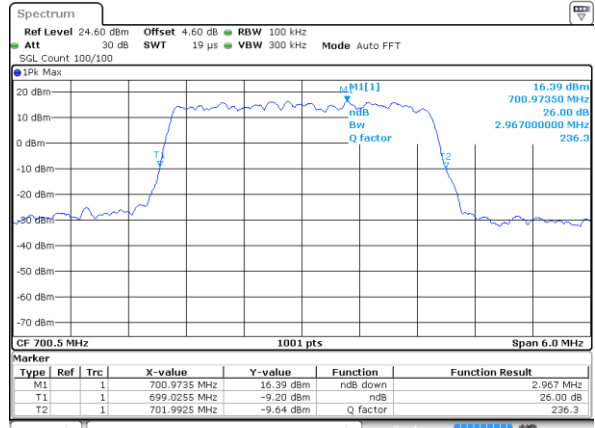
LTE Band 12

Lowest Channel / 3MHz / QPSK



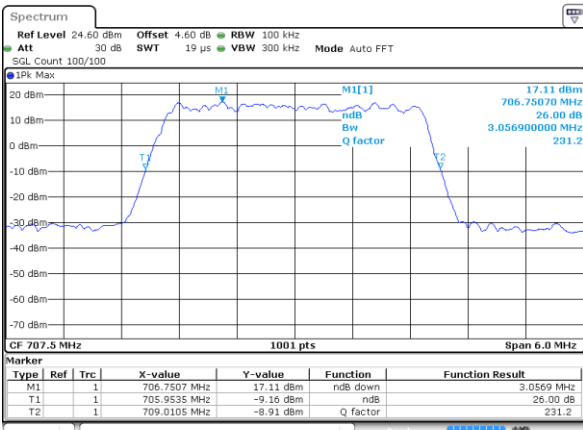
Date: 20 MAY 2020 15:02:28

Lowest Channel / 3MHz / 16QAM



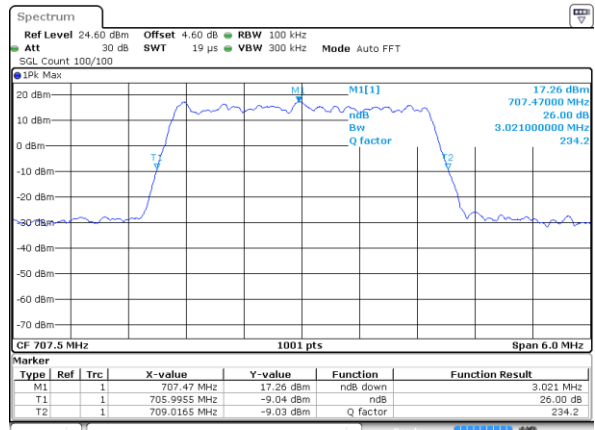
Date: 20 MAY 2020 15:02:18

Middle Channel / 3MHz / QPSK



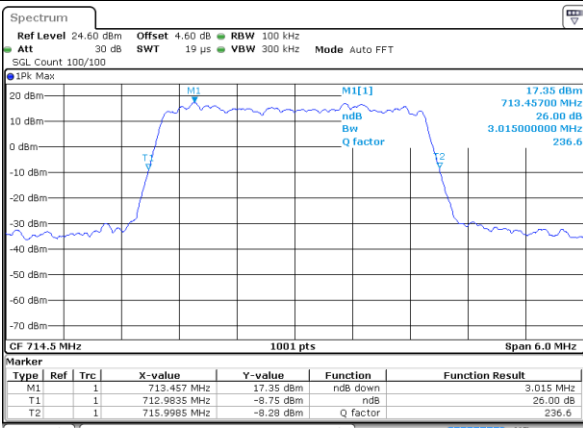
Date: 20 MAY 2020 15:01:58

Middle Channel / 3MHz / 16QAM



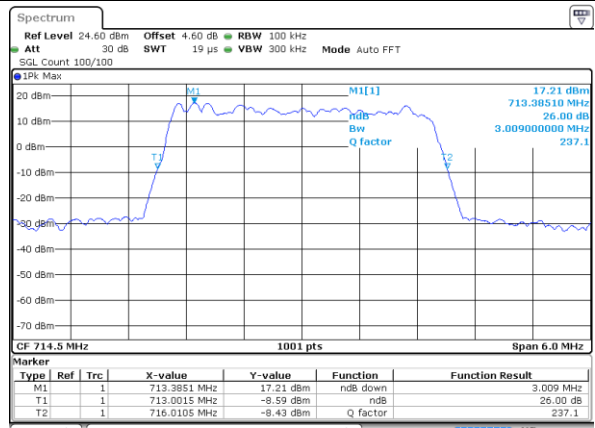
Date: 20 MAY 2020 15:02:08

Highest Channel / 3MHz / QPSK



Date: 20 MAY 2020 15:01:48

Highest Channel / 3MHz / 16QAM

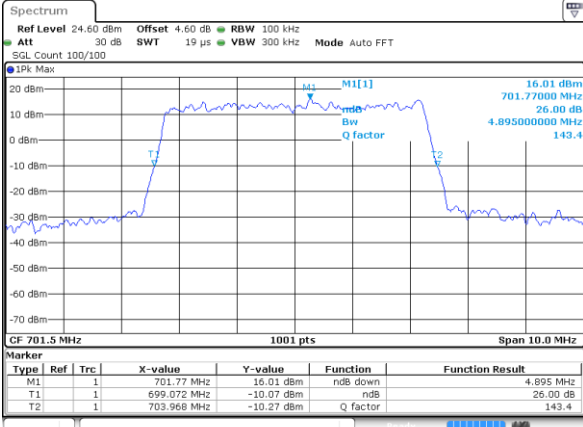


Date: 20 MAY 2020 15:01:38



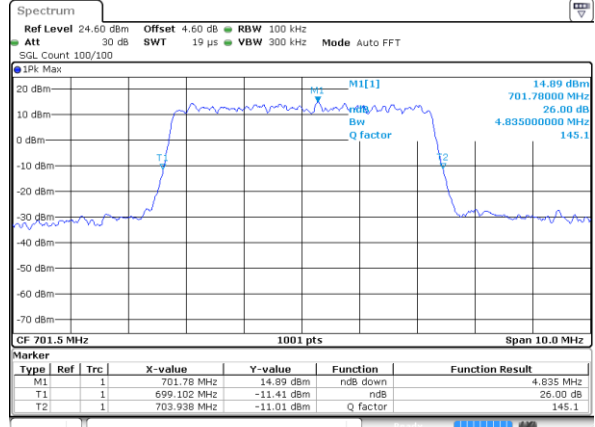
LTE Band 12

Lowest Channel / 5MHz / QPSK



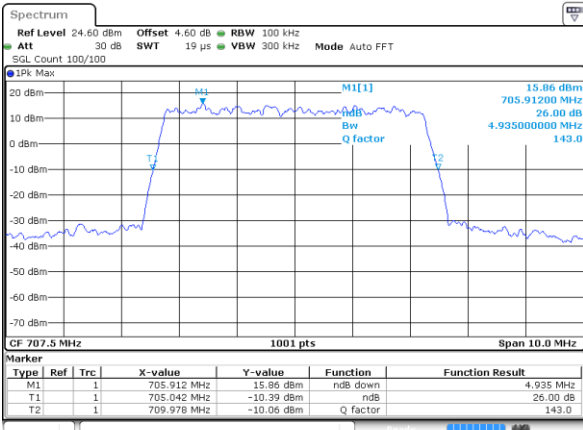
Date: 20 MAY 2020 15:18:58

Lowest Channel / 5MHz / 16QAM



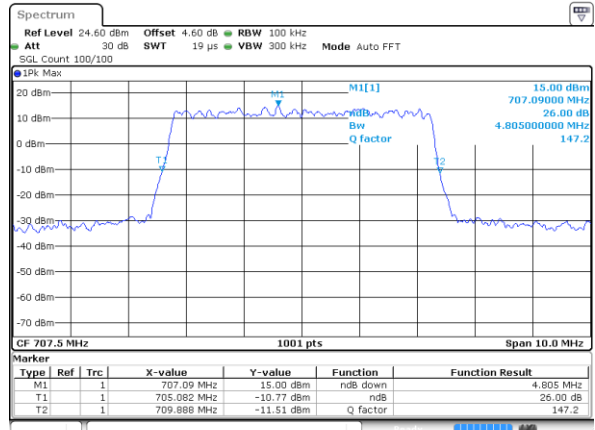
Date: 20 MAY 2020 15:18:48

Middle Channel / 5MHz / QPSK



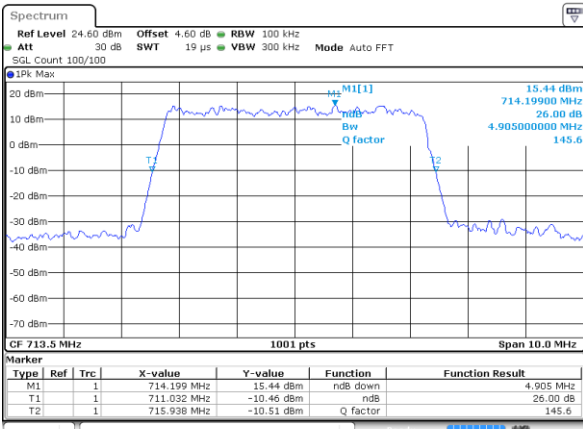
Date: 20 MAY 2020 15:18:28

Middle Channel / 5MHz / 16QAM



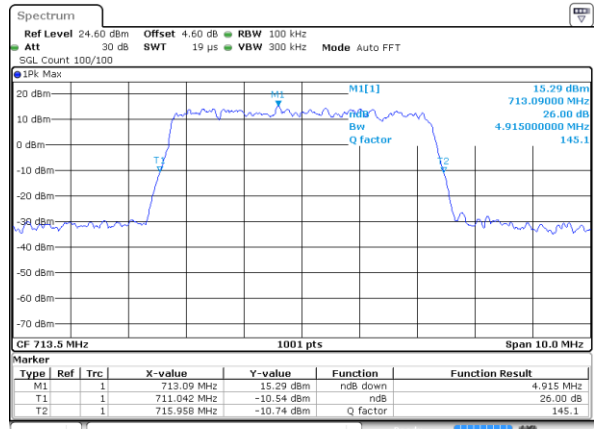
Date: 20 MAY 2020 15:18:38

Highest Channel / 5MHz / QPSK



Date: 20 MAY 2020 15:18:18

Highest Channel / 5MHz / 16QAM



Date: 20 MAY 2020 15:18:08