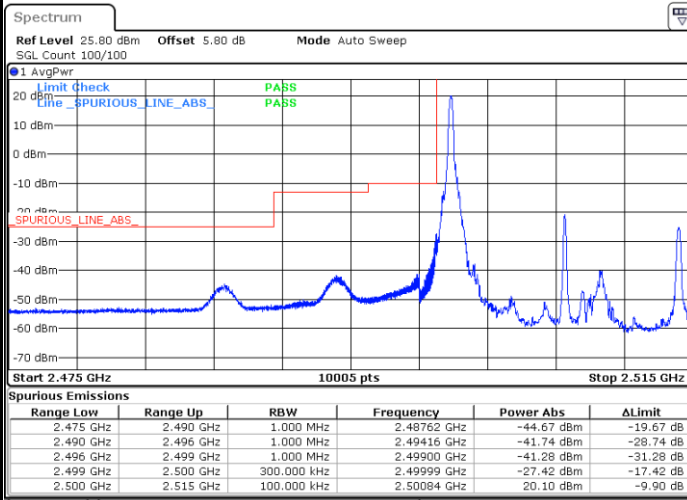




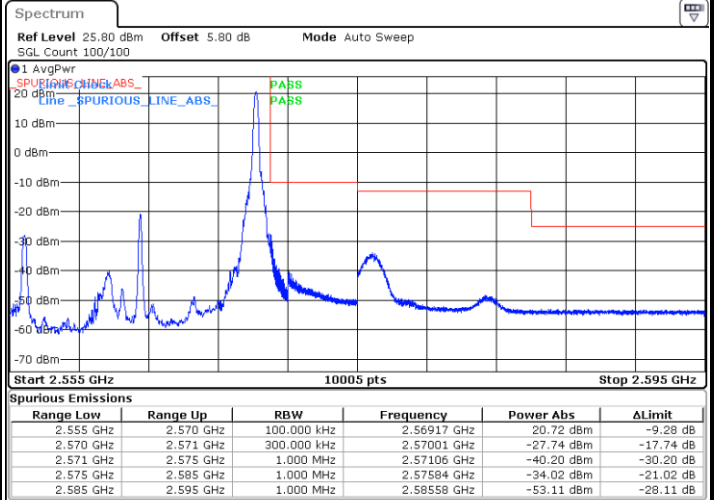
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB



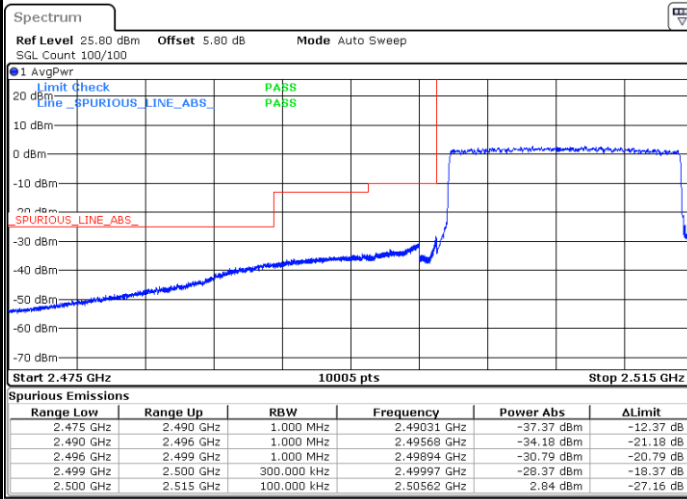
Date: 26 JUN 2020 17:53:14

Highest Band Edge / 1 RB



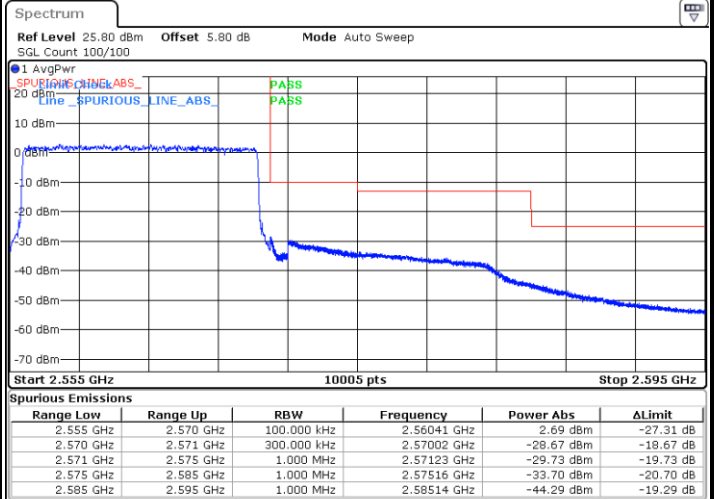
Date: 26 JUN 2020 18:01:12

Lowest Band Edge / Full RB



Date: 26 JUN 2020 17:56:39

Highest Band Edge / Full RB

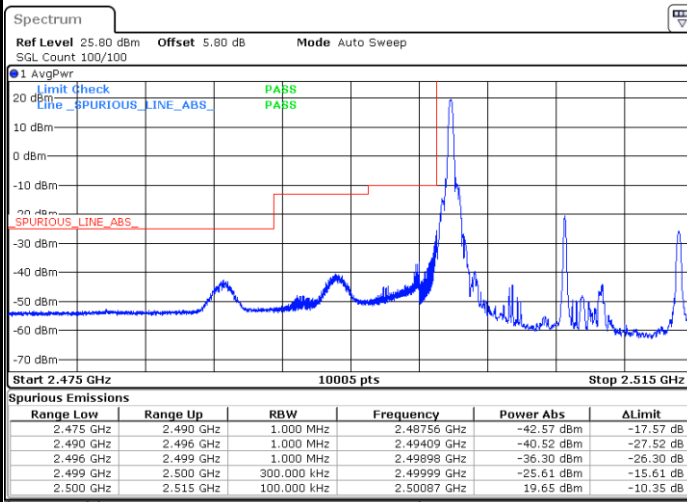


Date: 26 JUN 2020 17:57:47



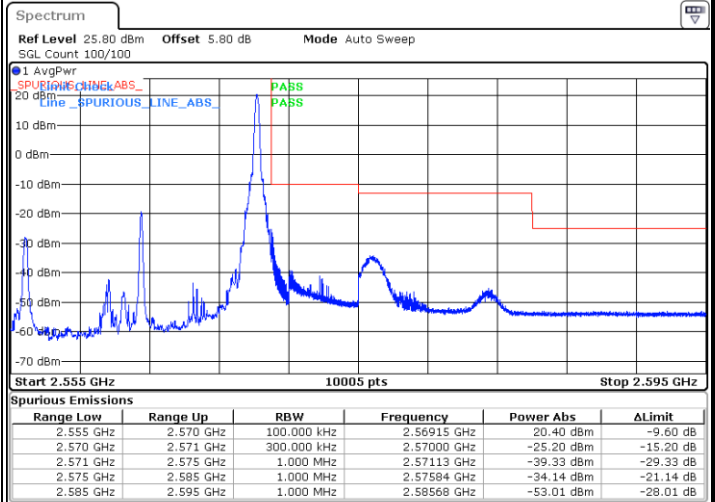
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



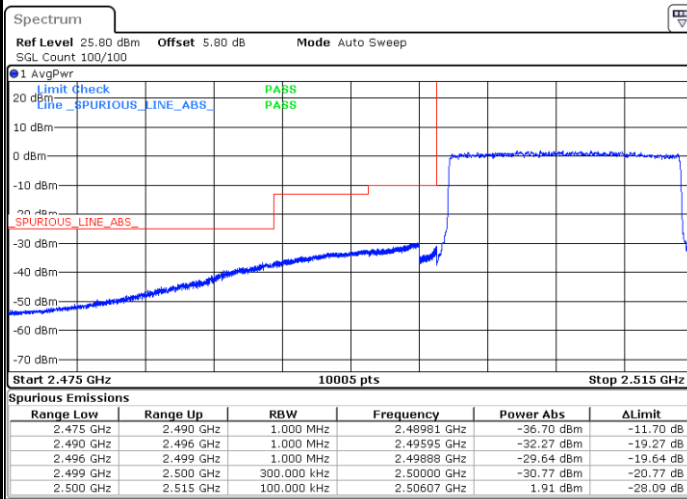
Date: 26 JUN 2020 17:54:22

Highest Band Edge / 1 RB



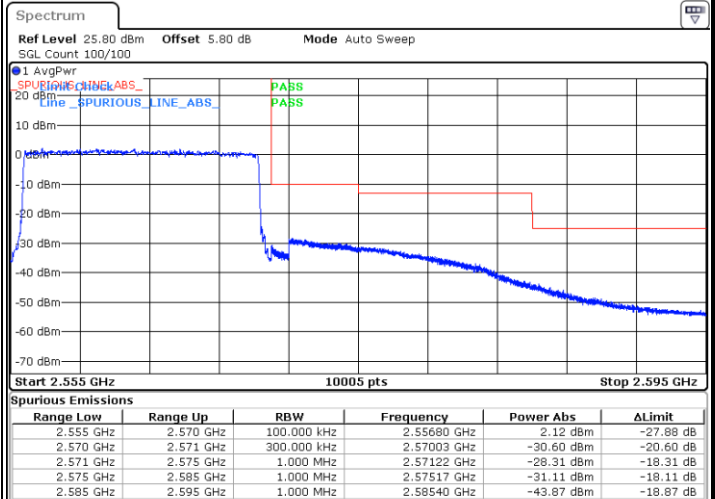
Date: 26 JUN 2020 18:00:04

Lowest Band Edge / Full RB



Date: 26 JUN 2020 17:55:31

Highest Band Edge / Full RB

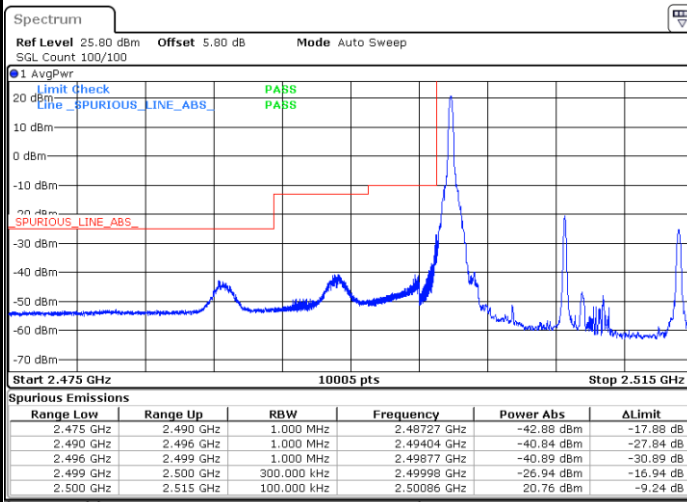


Date: 26 JUN 2020 17:58:55



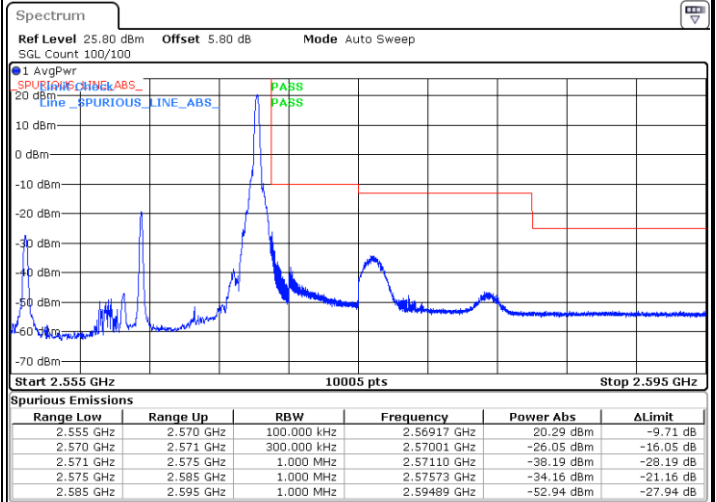
LTE Band 7 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



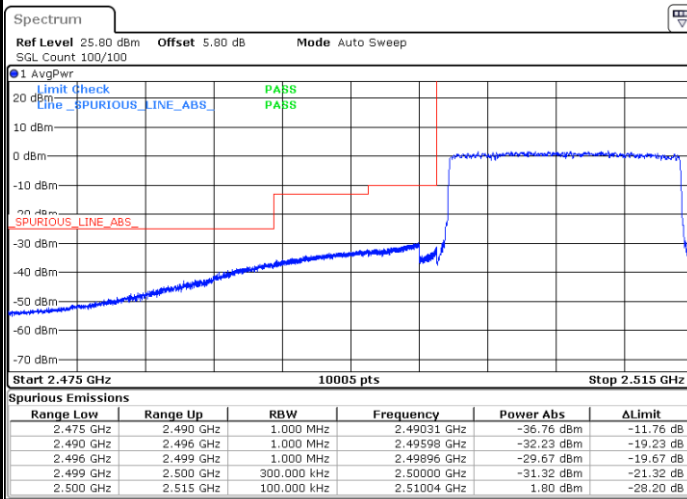
Date: 26 JUN 2020 18:42:52

Highest Band Edge / 1 RB



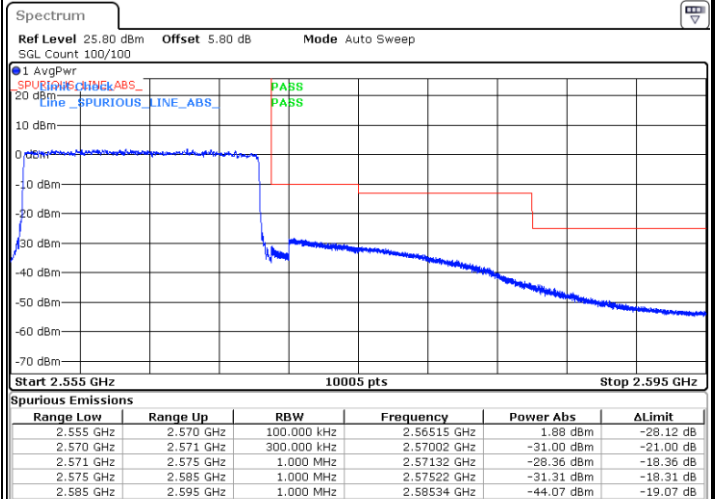
Date: 26 JUN 2020 18:45:08

Lowest Band Edge / Full RB



Date: 26 JUN 2020 18:41:43

Highest Band Edge / Full RB

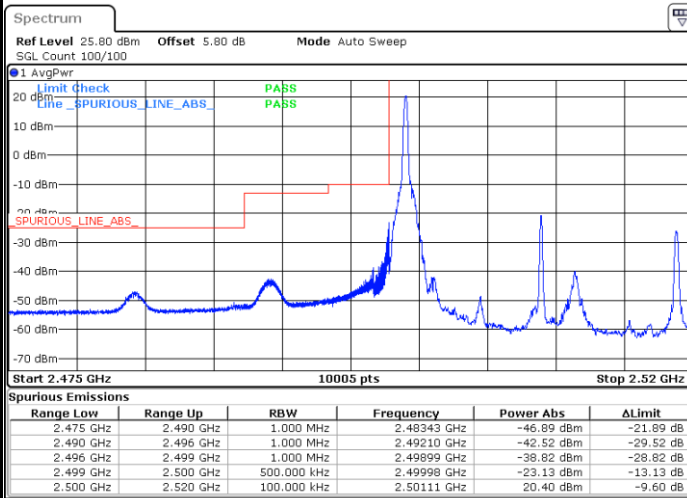


Date: 26 JUN 2020 18:44:00



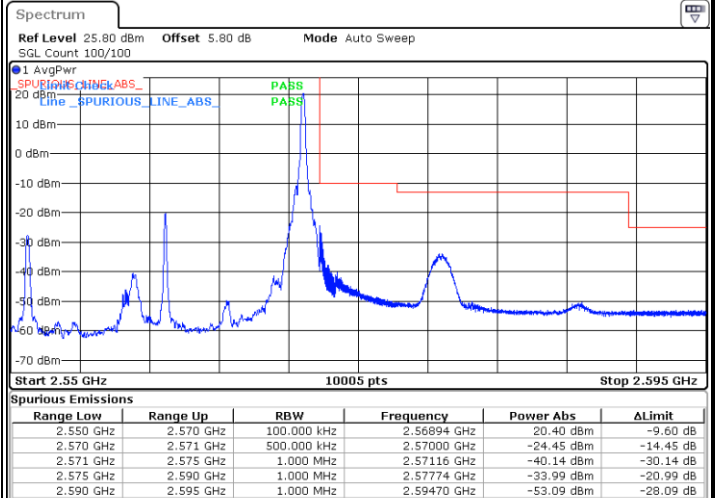
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB



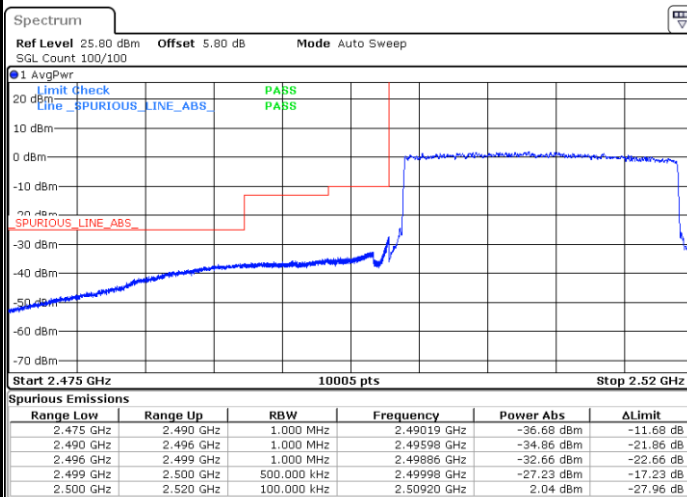
Date: 26 JUN 2020 18:09:44

Highest Band Edge / 1 RB



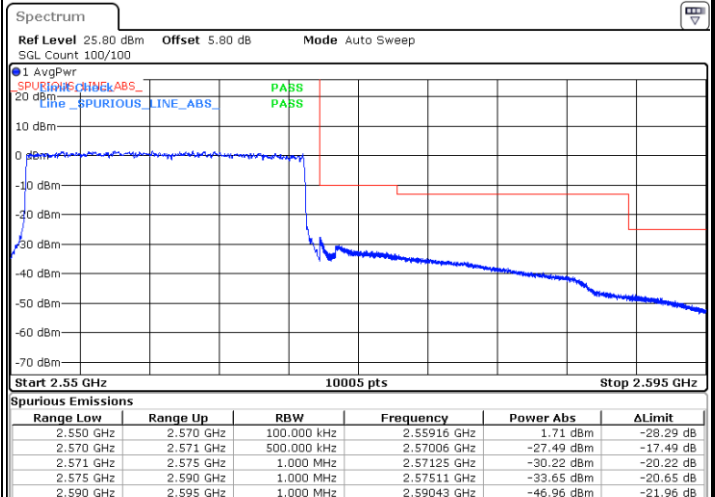
Date: 26 JUN 2020 18:17:41

Lowest Band Edge / Full RB



Date: 26 JUN 2020 18:13:09

Highest Band Edge / Full RB

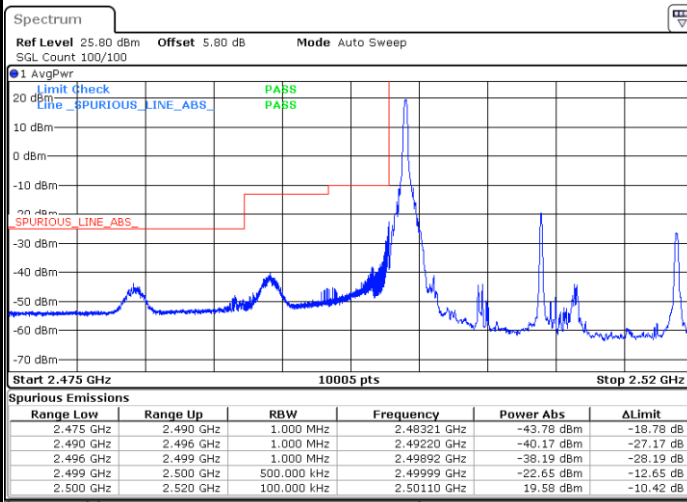


Date: 26 JUN 2020 18:14:17



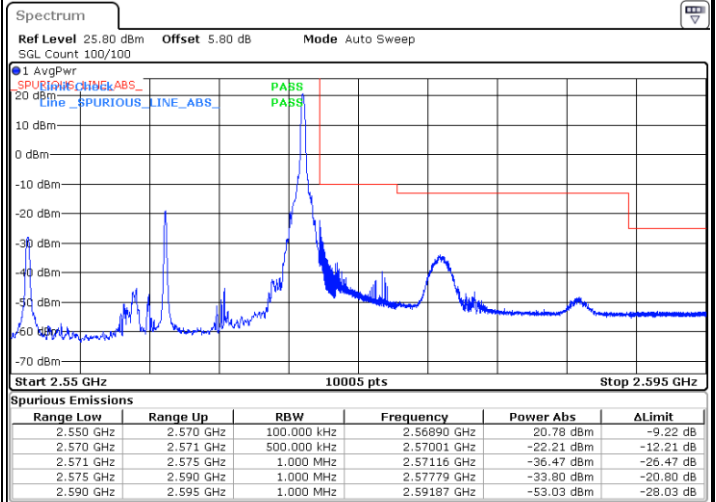
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



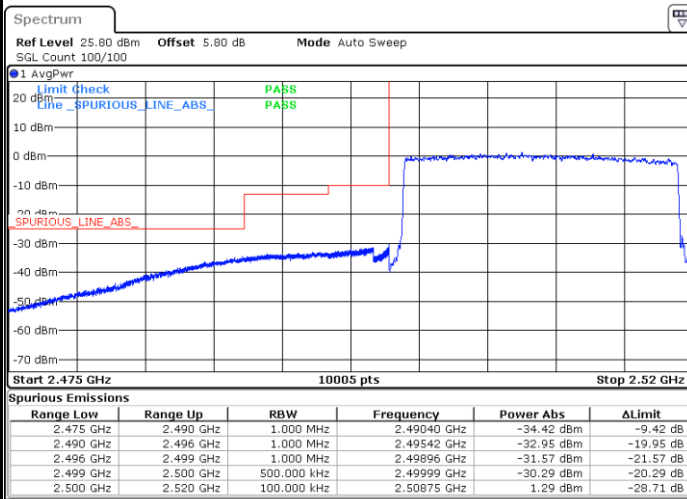
Date: 26 JUN 2020 18:10:52

Highest Band Edge / 1RB



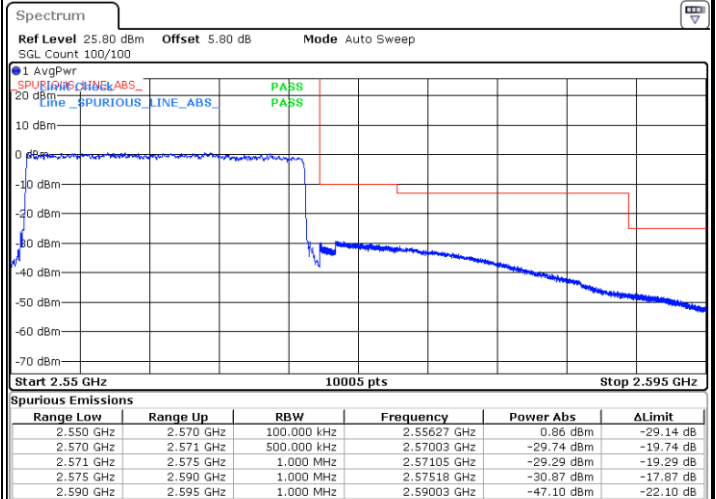
Date: 26 JUN 2020 18:16:33

Lowest Band Edge / Full RB



Date: 26 JUN 2020 18:12:01

Highest Band Edge / Full RB

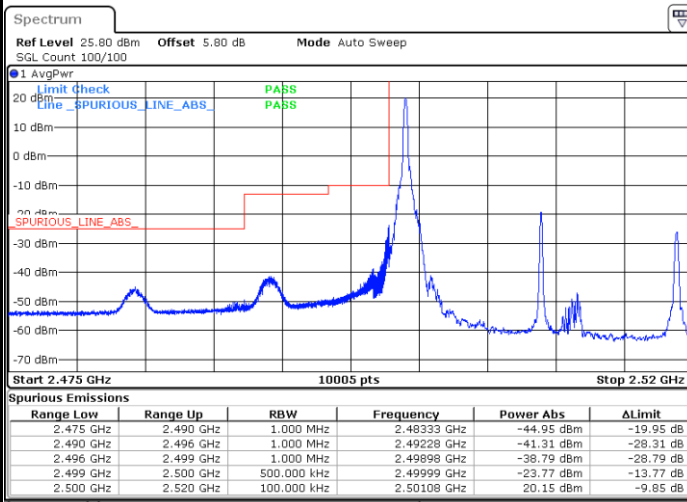


Date: 26 JUN 2020 18:15:25



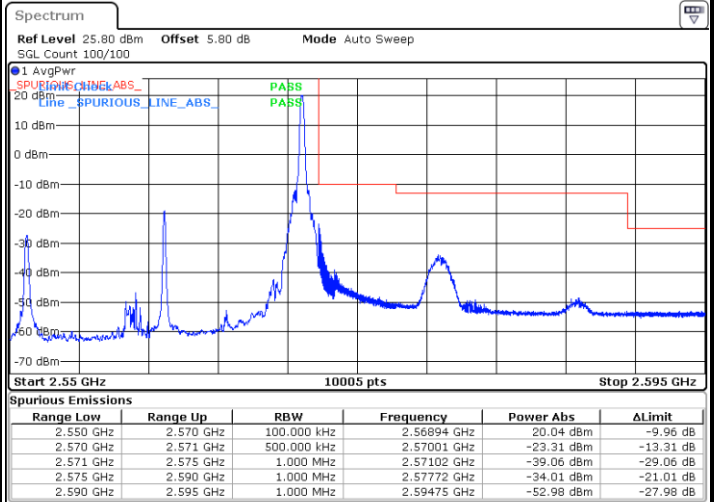
LTE Band 7 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



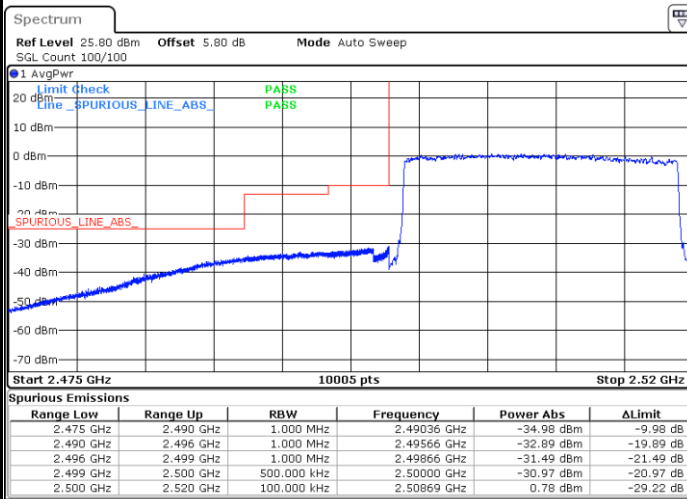
Date: 26 JUN 2020 18:51:08

Highest Band Edge / 1 RB



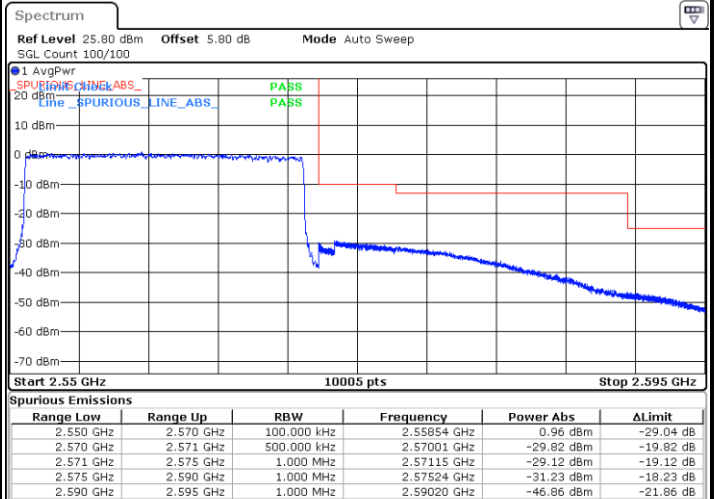
Date: 26 JUN 2020 18:53:24

Lowest Band Edge / Full RB



Date: 26 JUN 2020 18:49:59

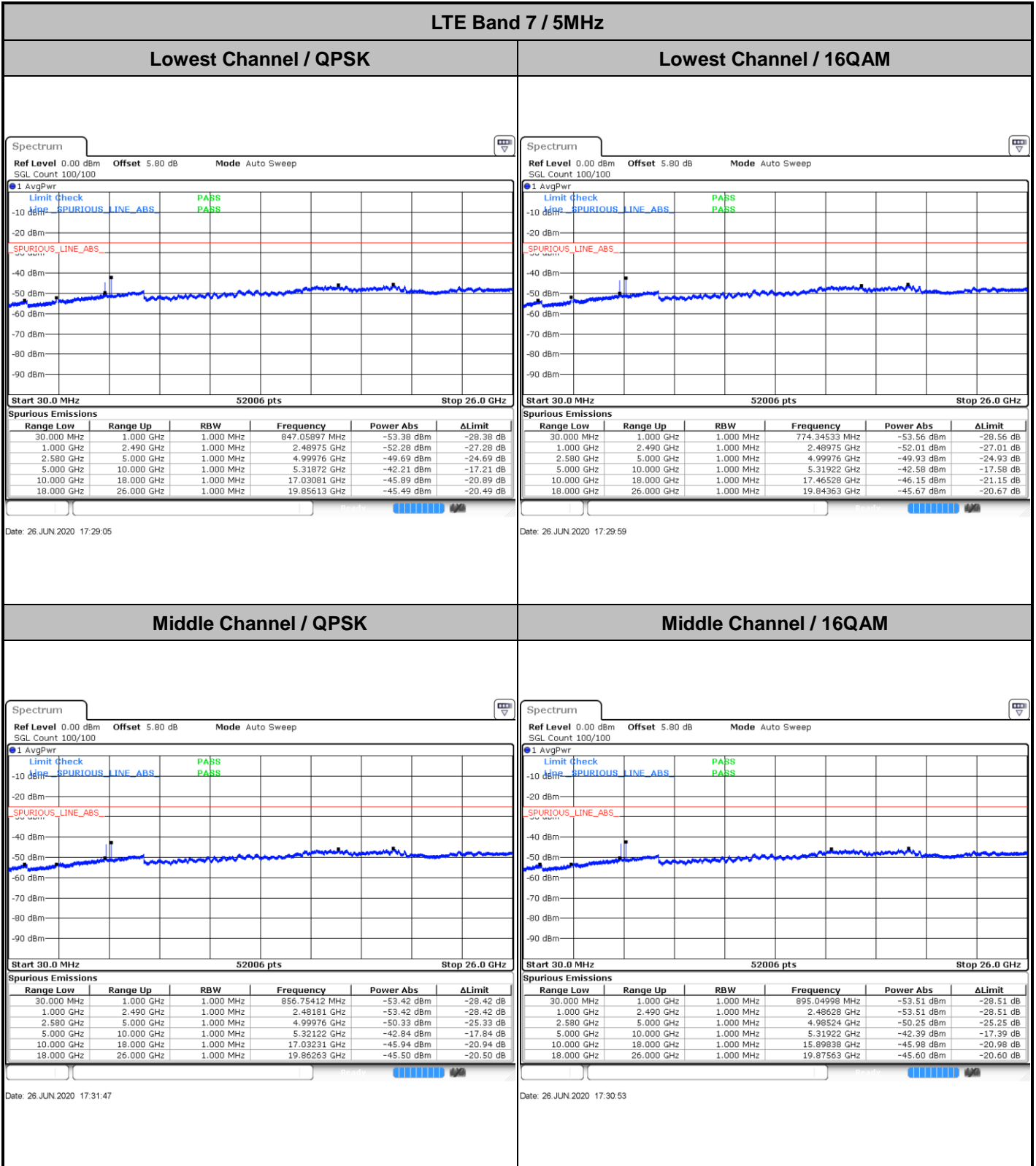
Highest Band Edge / Full RB



Date: 26 JUN 2020 18:52:16



# Conducted Spurious Emission

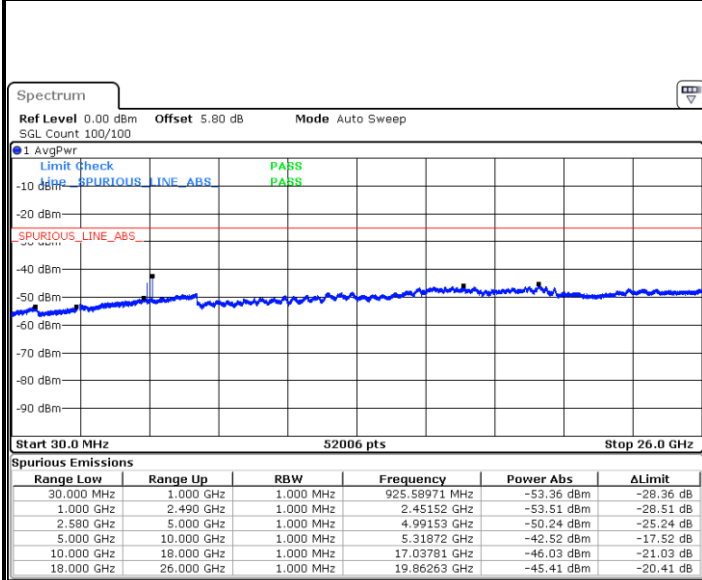






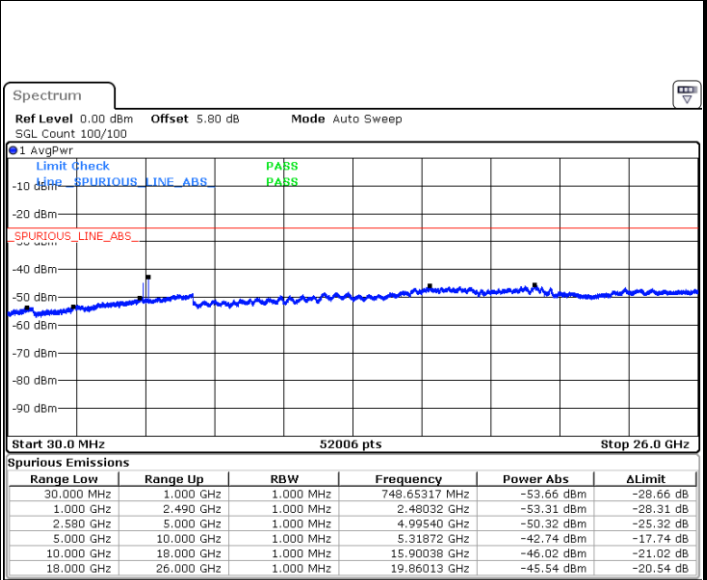
LTE Band 7 / 5MHz

Highest Channel / QPSK



Date: 26 JUN 2020 17:32:41

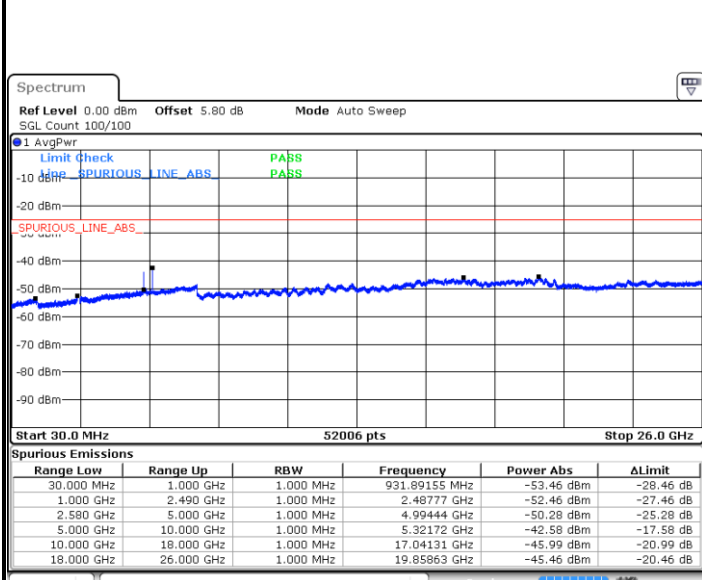
Highest Channel / 16QAM



Date: 26 JUN 2020 17:33:35

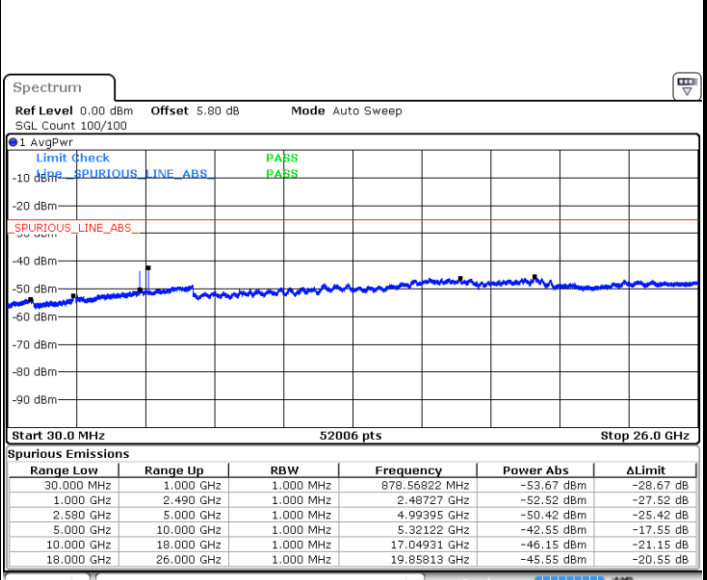
LTE Band 7 / 10MHz

Lowest Channel / QPSK



Date: 26 JUN 2020 17:45:34

Lowest Channel / 16QAM



Date: 26 JUN 2020 17:46:28

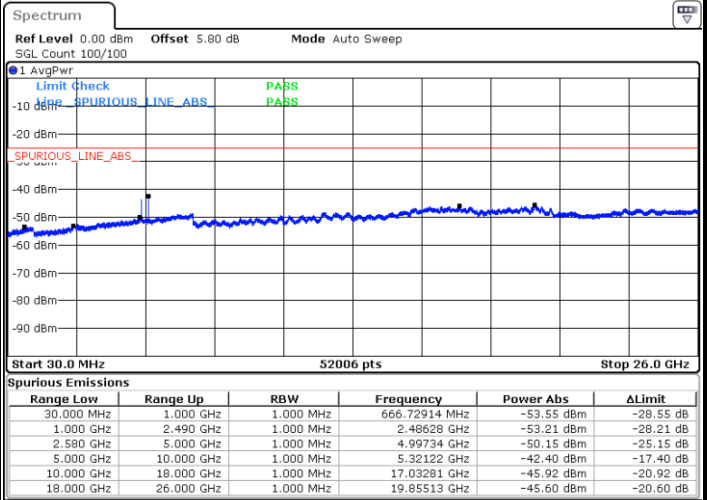
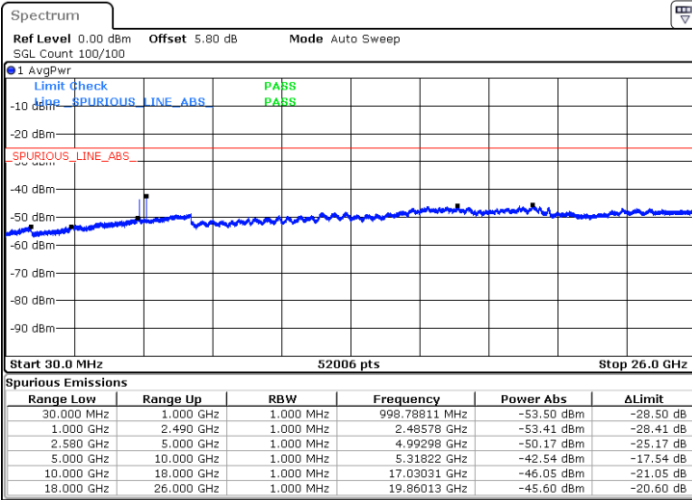




LTE Band 7 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

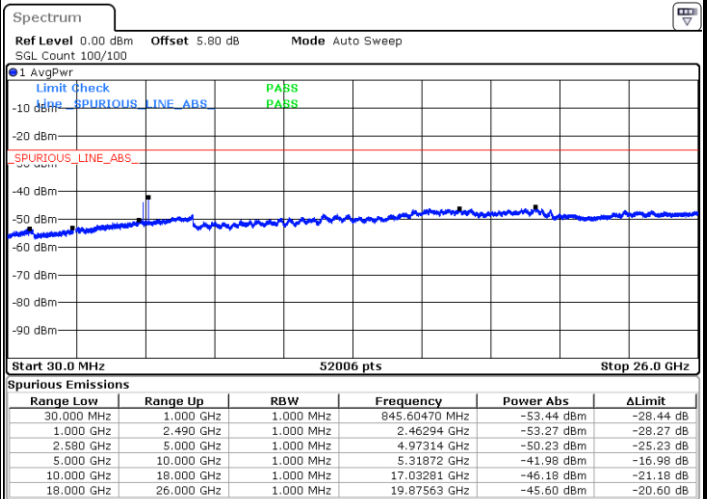
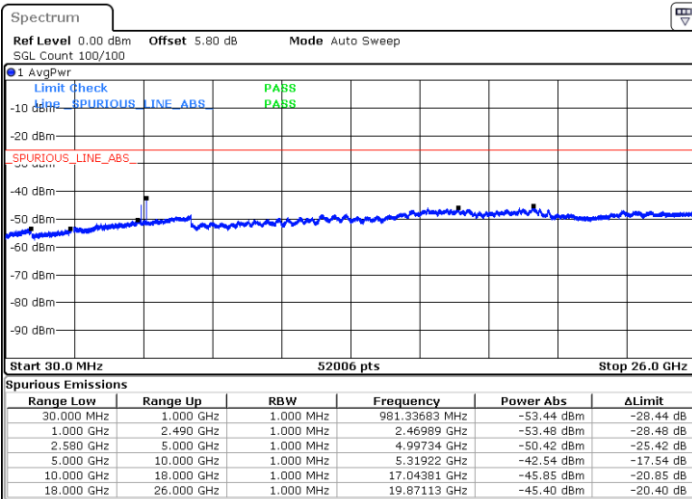


Date: 26 JUN 2020 17:48:16

Date: 26 JUN 2020 17:47:22

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 26 JUN 2020 17:49:10

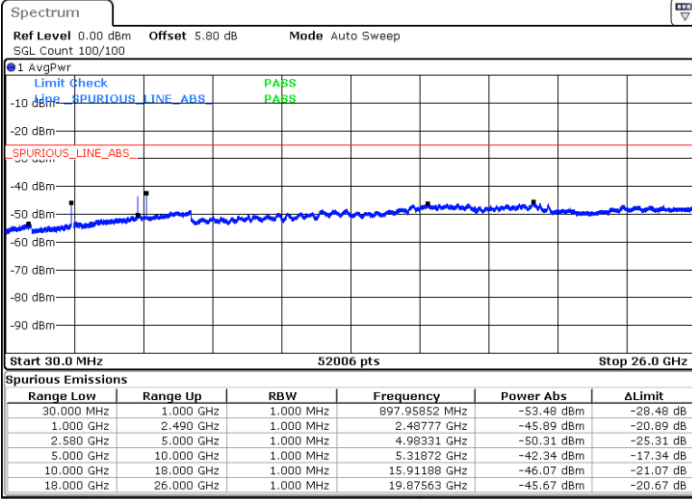
Date: 26 JUN 2020 17:50:04



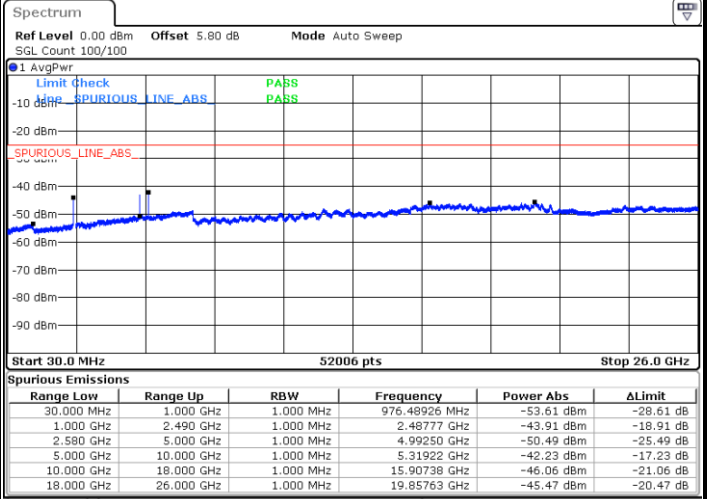
LTE Band 7 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



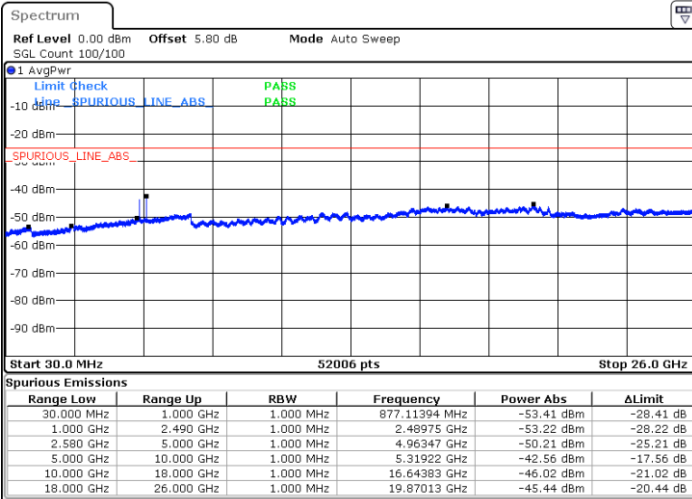
Date: 26 JUN 2020 18:02:04



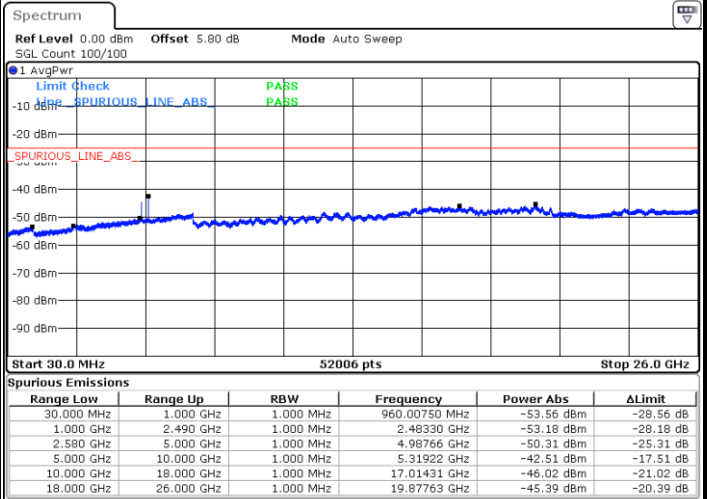
Date: 26 JUN 2020 18:02:58

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 26 JUN 2020 18:04:46

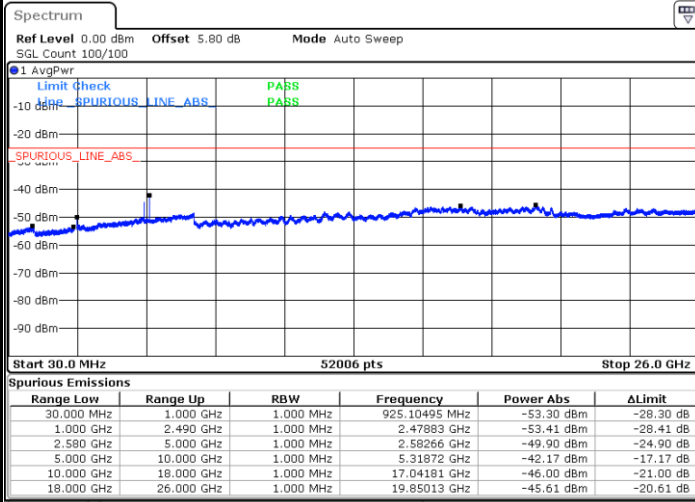


Date: 26 JUN 2020 18:03:52



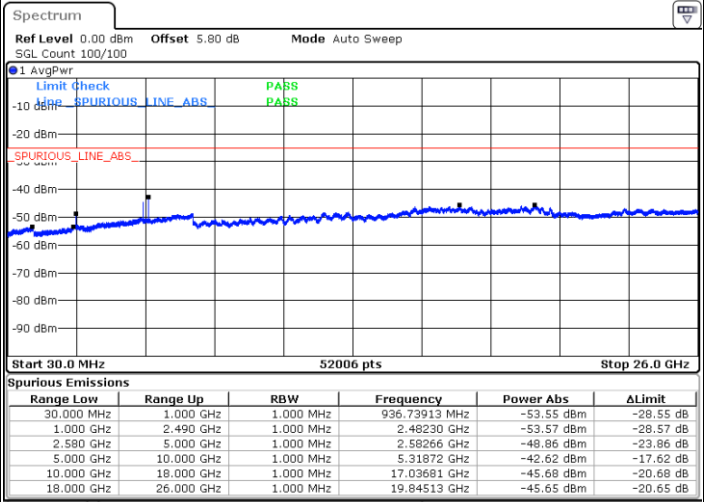
LTE Band7 / 15MHz

Highest Channel / QPSK



Date: 26 JUN 2020 18:05:40

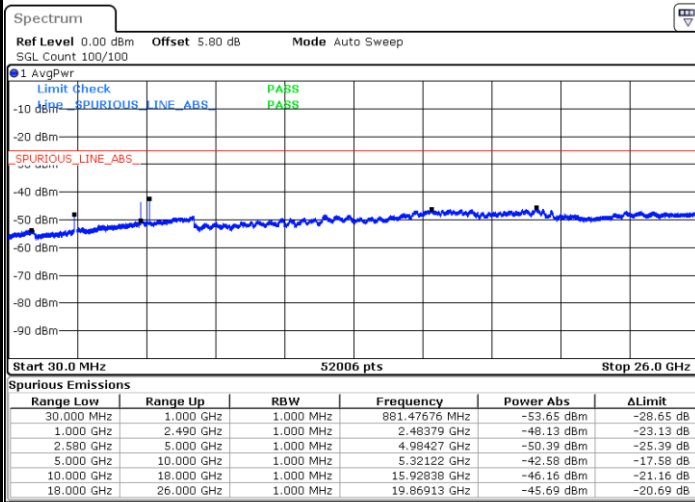
Highest Channel / 16QAM



Date: 26 JUN 2020 18:06:34

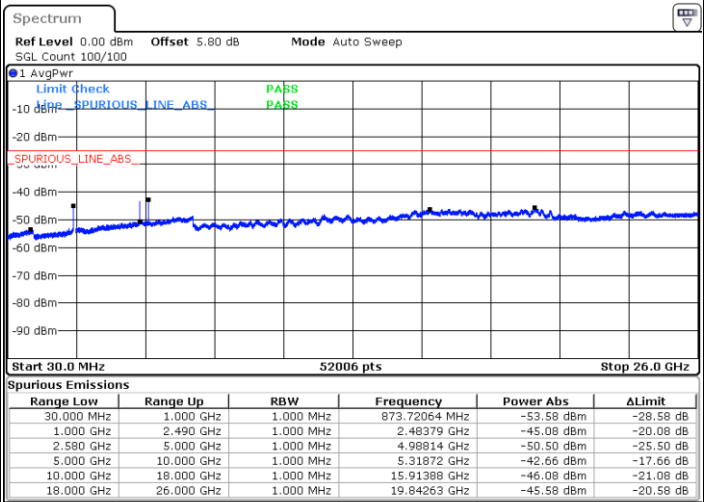
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 26 JUN 2020 18:18:34

Lowest Channel / 16QAM



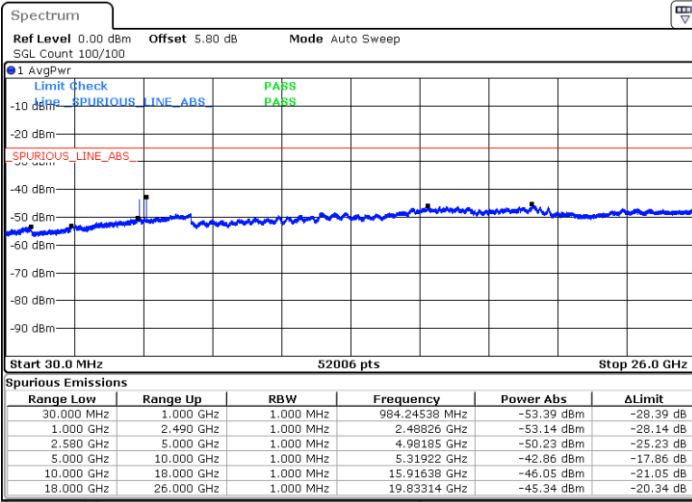
Date: 26 JUN 2020 18:19:28



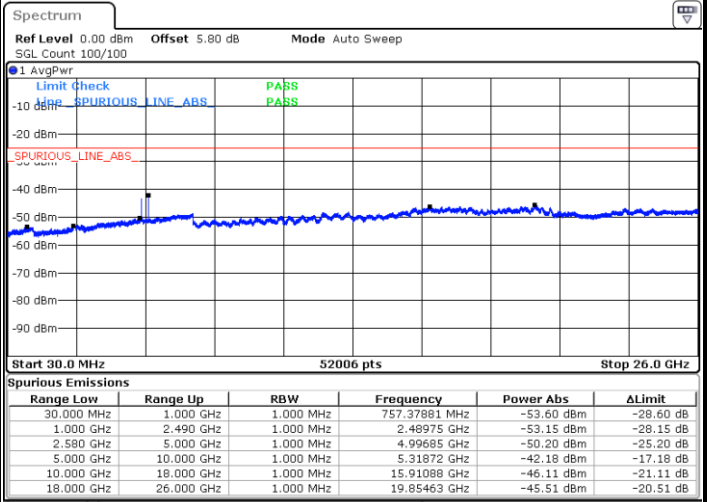
LTE Band 7 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM



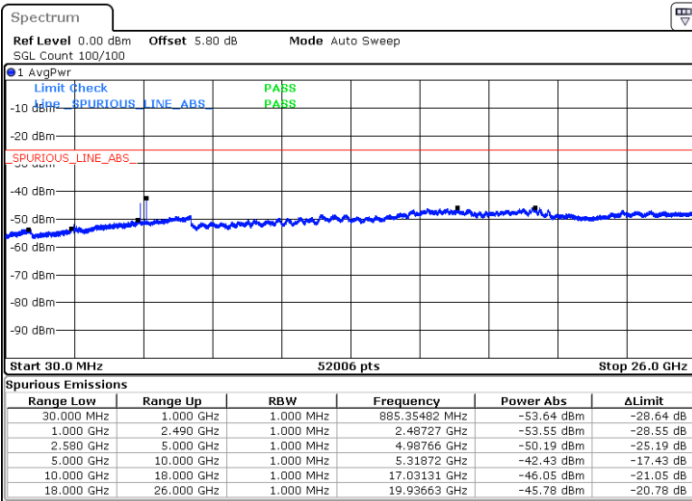
Date: 26 JUN 2020 18:21:16



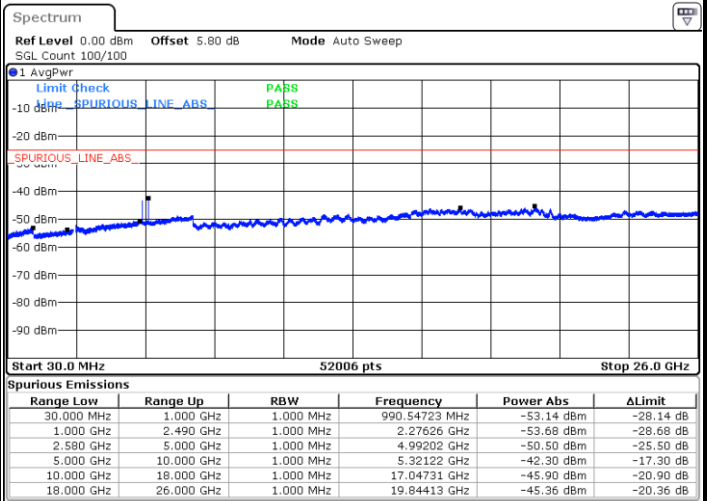
Date: 26 JUN 2020 18:20:22

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 26 JUN 2020 18:22:10



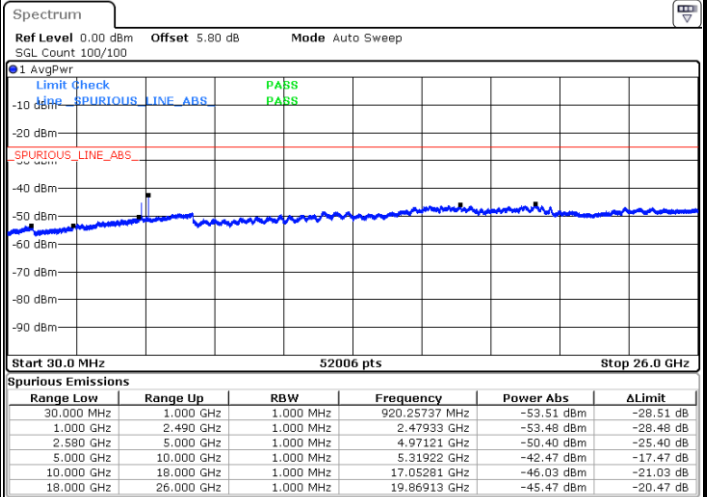
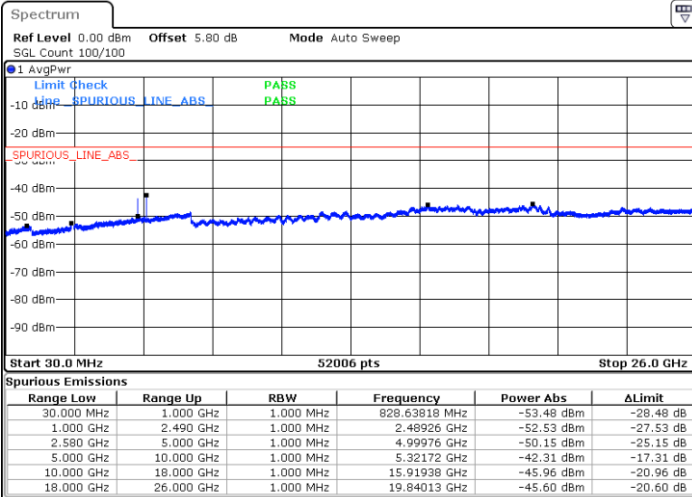
Date: 26 JUN 2020 18:23:04



LTE Band 7 / 5MHz

Lowest Channel / 64QAM

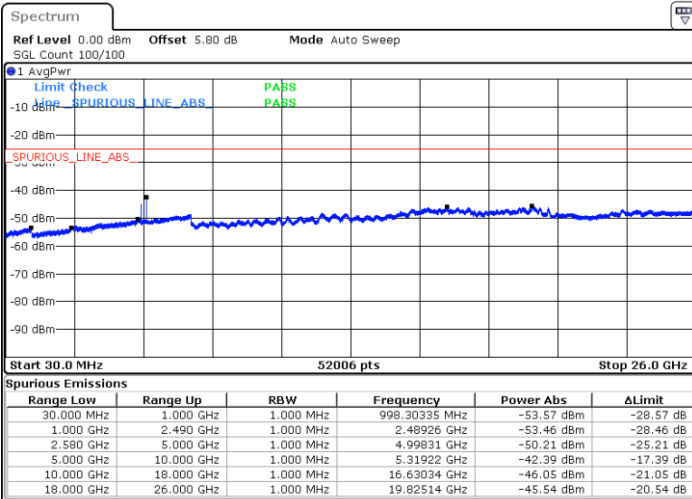
Middle Channel / 64QAM



Date: 26 JUN 2020 18:24:58

Date: 26 JUN 2020 18:25:52

Highest Channel / 64QAM

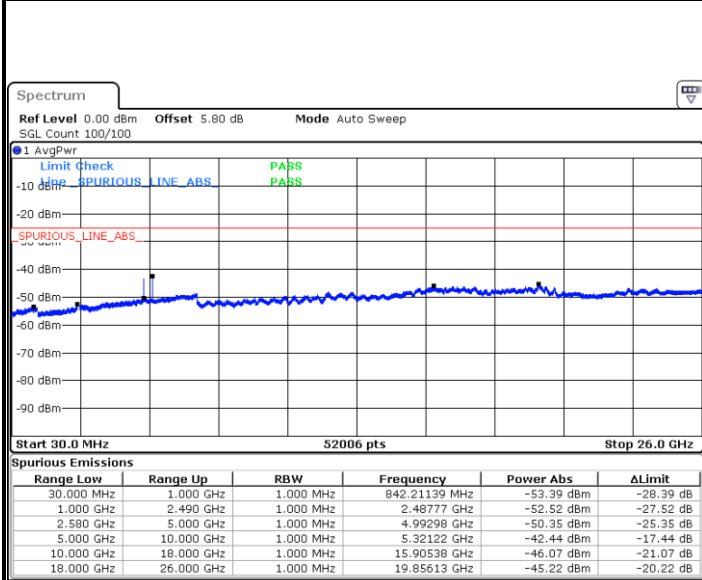


Date: 26 JUN 2020 18:26:46



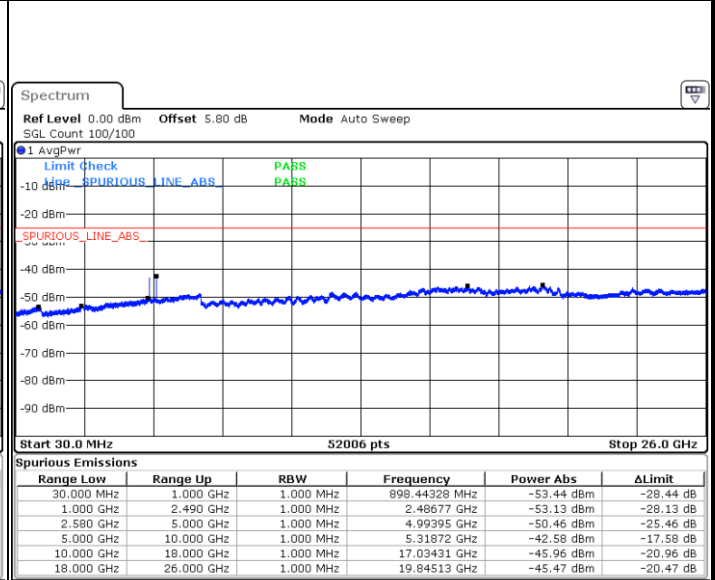
**LTE Band 7 / 10MHz**

**Lowest Channel / 64QAM**



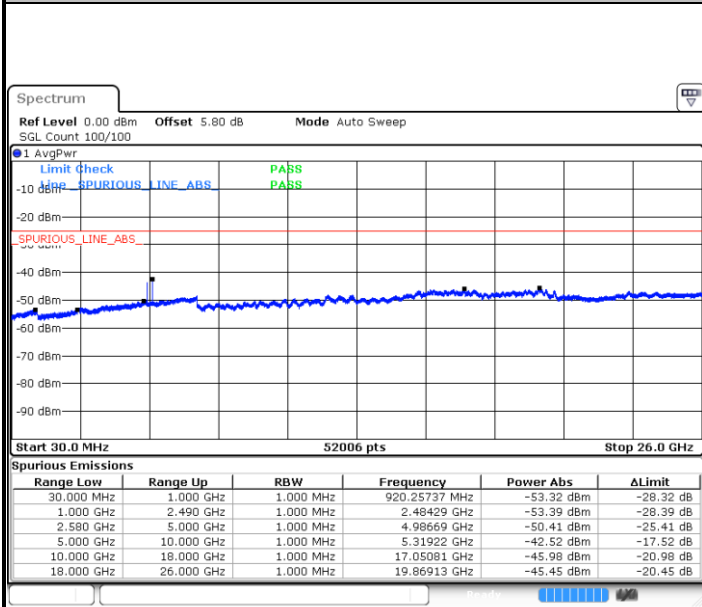
Date: 26 JUN 2020 18:33:13

**Middle Channel / 64QAM**



Date: 26 JUN 2020 18:34:07

**Highest Channel / 64QAM**



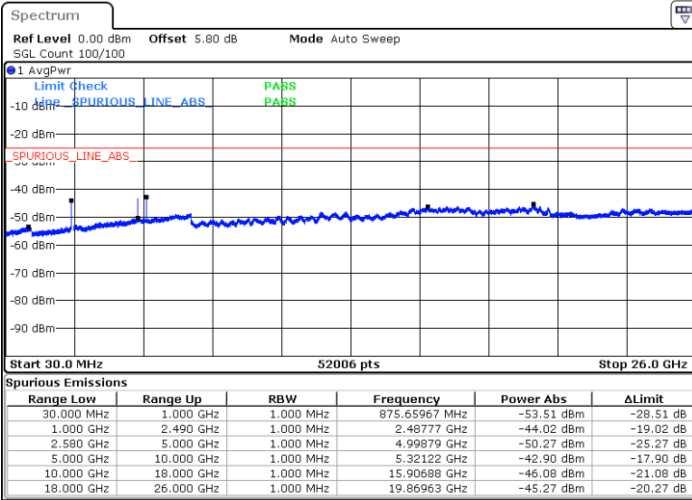
Date: 26 JUN 2020 18:35:01



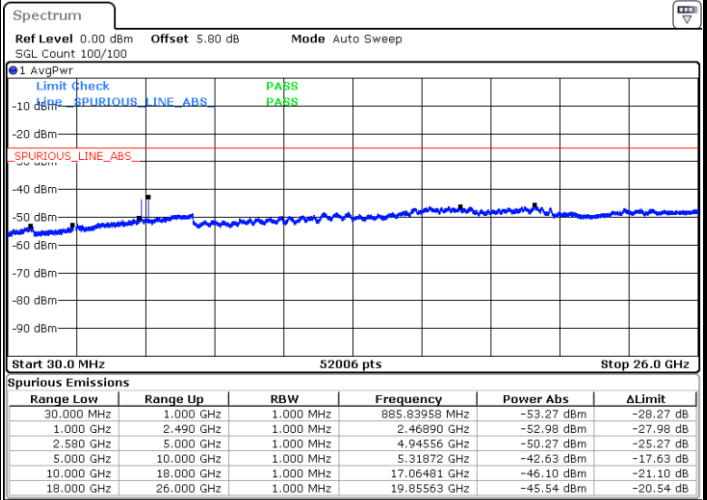
LTE Band 7 / 15MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

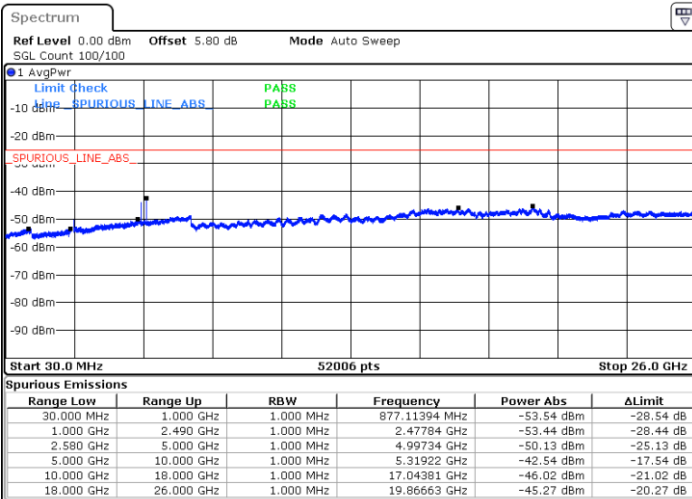


Date: 26 JUN 2020 18:46:01



Date: 26 JUN 2020 18:46:55

Highest Channel / 64QAM



Date: 26 JUN 2020 18:47:49

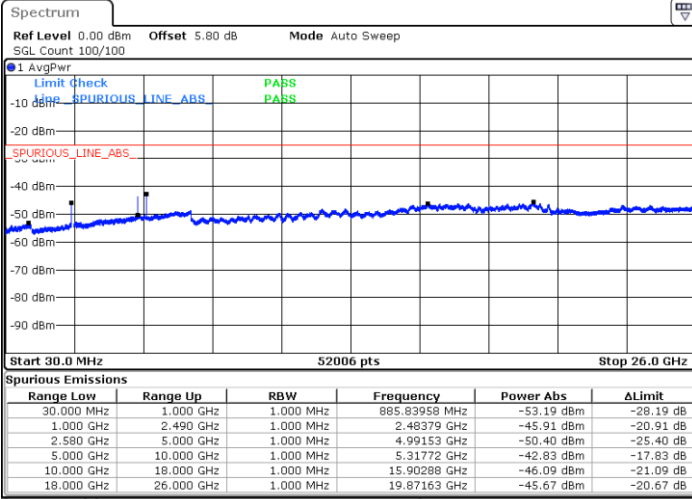




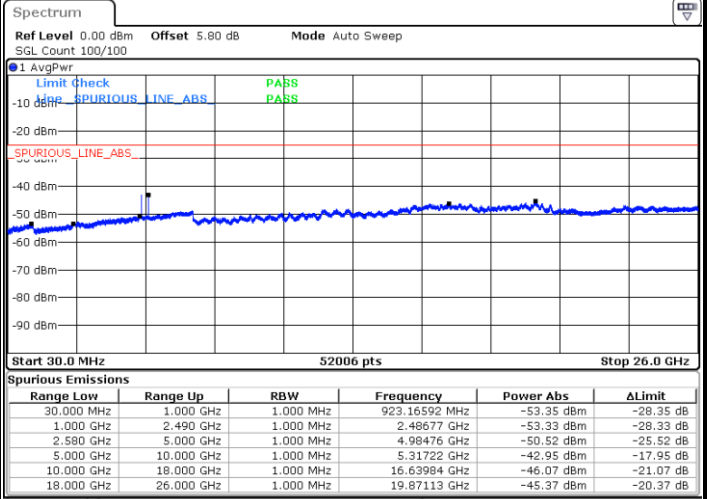
LTE Band 7 / 20MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

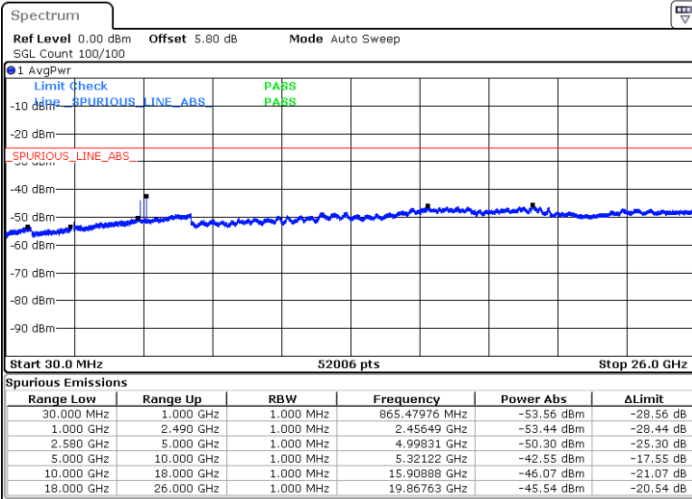


Date: 26 JUN 2020 18:54:17



Date: 26 JUN 2020 18:55:10

Highest Channel / 64QAM



Date: 26 JUN 2020 18:56:04



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	0.0023	PASS
40	Normal Voltage	0.0028	
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	0.0006	
20	Normal Voltage	0.0024	
20	Battery End Point	0.0027	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.65 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 12

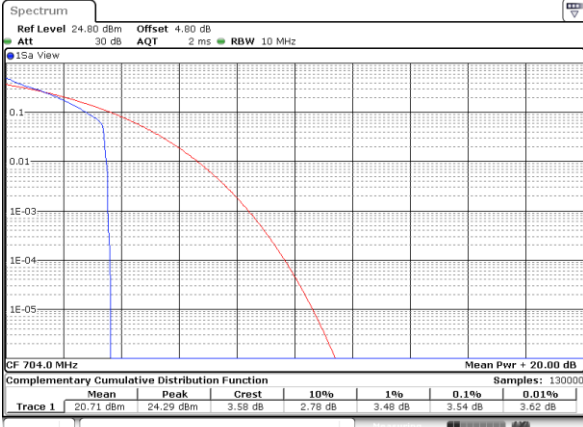
## Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.54	4.52	4.93	5.74	PASS
Middle CH	3.54	4.52	4.70	5.86	
Highest CH	3.59	4.55	5.30	5.88	
Mode	LTE Band 12 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	4.99	5.77	-	-	PASS
Middle CH	5.30	5.80	-	-	
Highest CH	5.22	5.83	-	-	



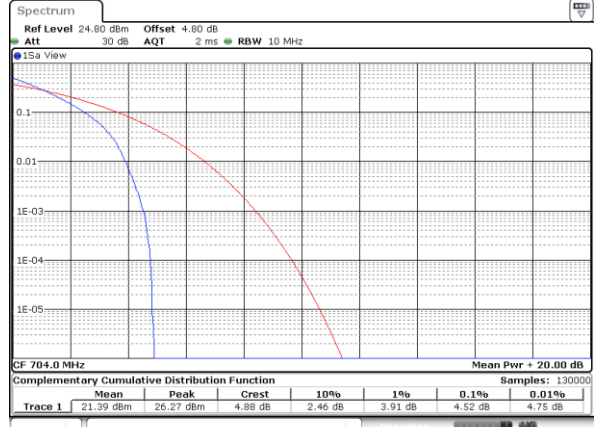
LTE Band 12 / 10MHz / QPSK

Lowest Channel / 1RB



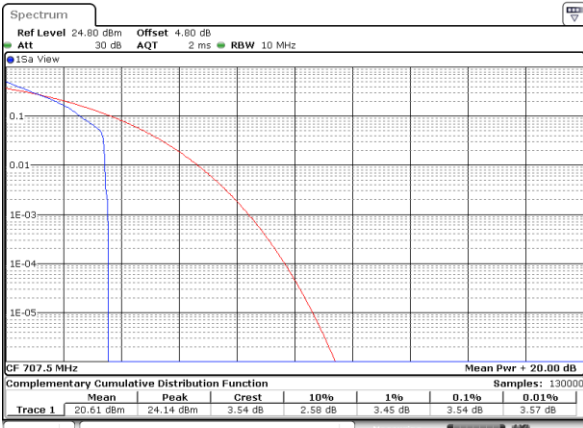
Date: 26 JUN 2020 21:15:01

Lowest Channel / Full RB



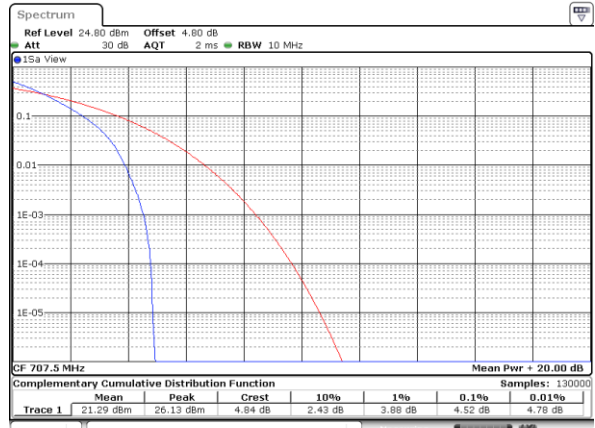
Date: 26 JUN 2020 21:15:10

Middle Channel / 1RB



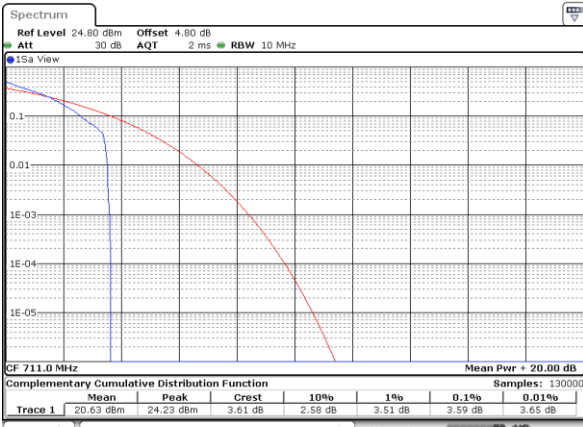
Date: 26 JUN 2020 21:15:48

Middle Channel / Full RB



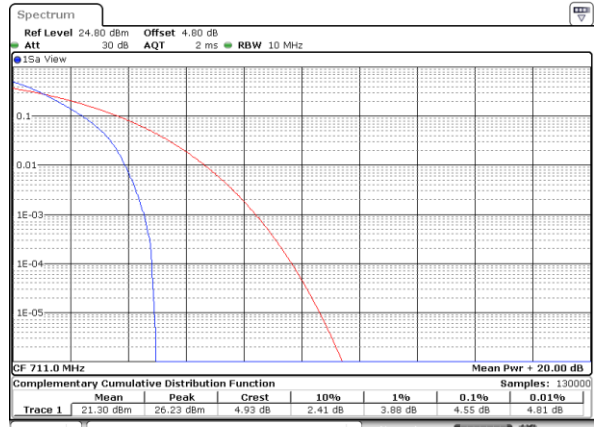
Date: 26 JUN 2020 21:15:38

Highest Channel / 1RB



Date: 26 JUN 2020 21:16:16

Highest Channel / Full RB

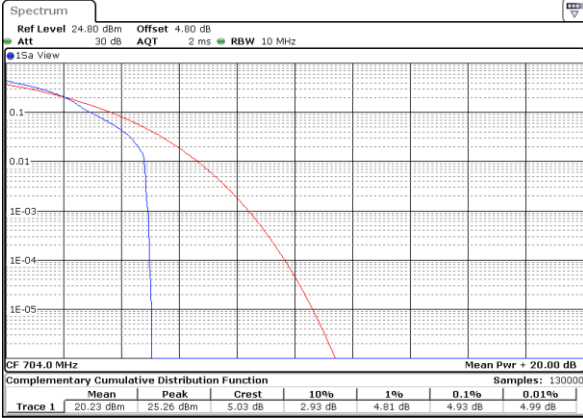


Date: 26 JUN 2020 21:16:25



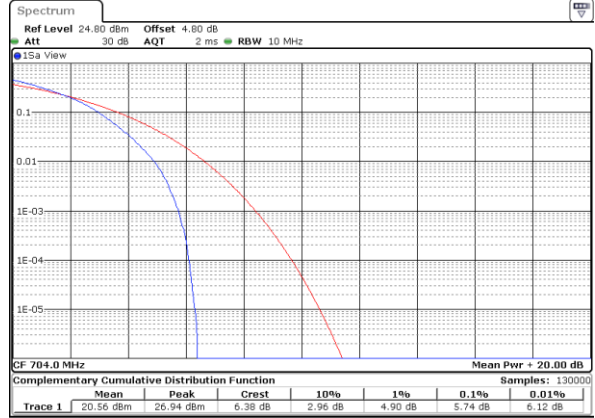
LTE Band 12 / 10MHz / 16QAM

Lowest Channel / 1RB



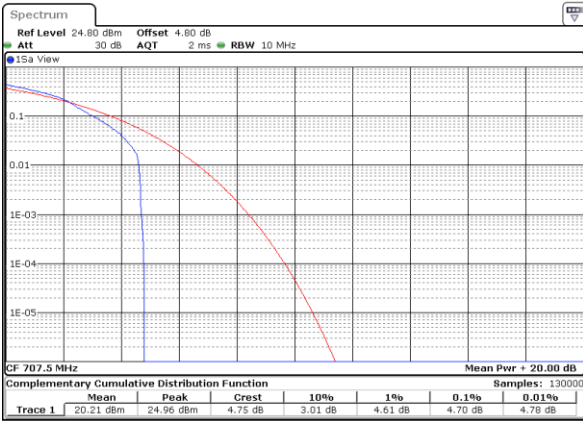
Date: 26 JUN 2020 21:14:51

Lowest Channel / Full RB



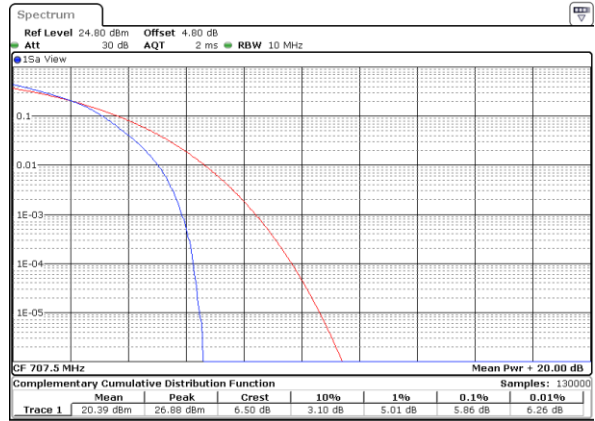
Date: 26 JUN 2020 21:15:19

Middle Channel / 1RB



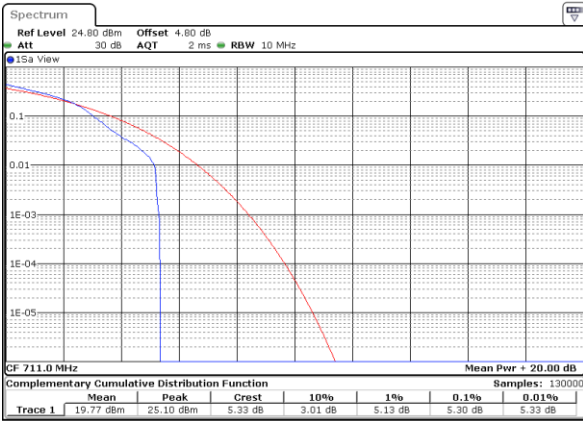
Date: 26 JUN 2020 21:15:57

Middle Channel / Full RB



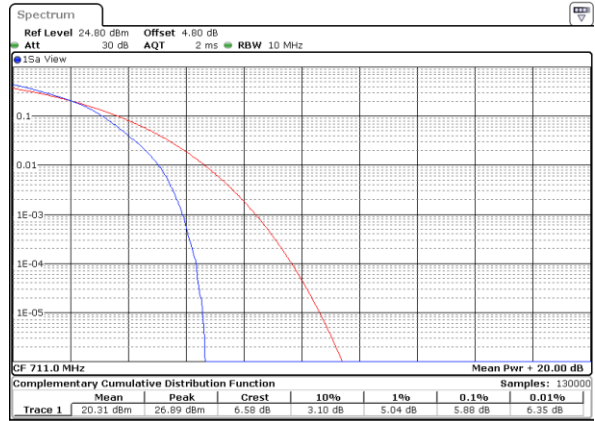
Date: 26 JUN 2020 21:15:29

Highest Channel / 1RB



Date: 26 JUN 2020 21:16:07

Highest Channel / Full RB

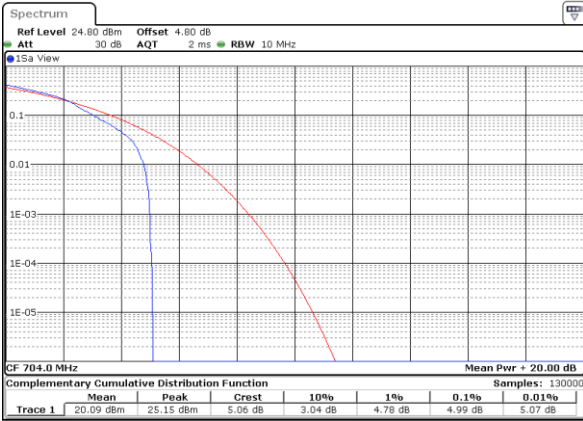


Date: 26 JUN 2020 21:16:35



LTE Band 12 / 10MHz / 64QAM

Lowest Channel / 1RB



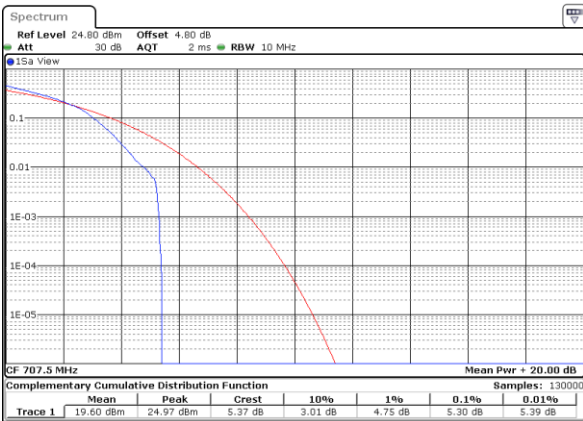
Date: 26 JUN 2020 21:13:49

Lowest Channel / Full RB



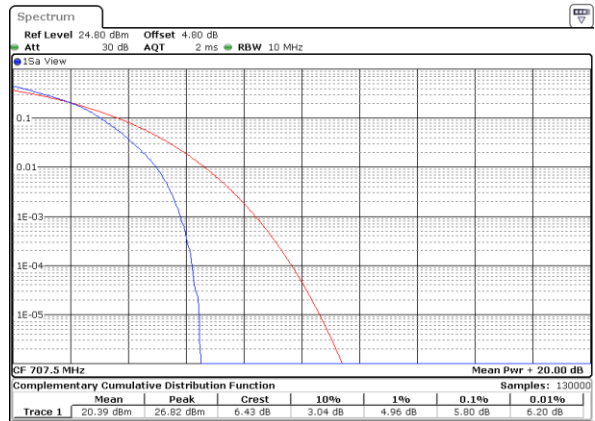
Date: 26 JUN 2020 21:13:59

Middle Channel / 1RB



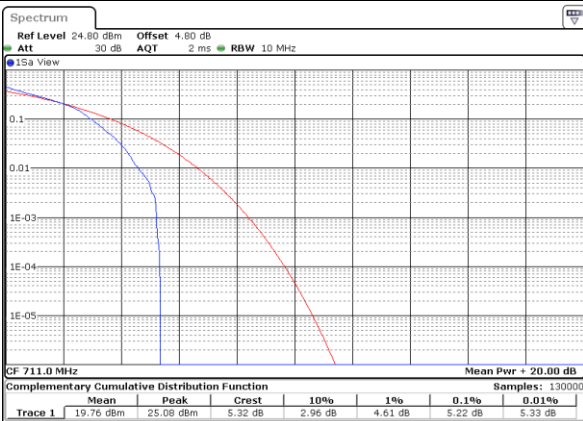
Date: 26 JUN 2020 21:14:20

Middle Channel / Full RB



Date: 26 JUN 2020 21:14:09

Highest Channel / 1RB



Date: 26 JUN 2020 21:14:29

Highest Channel / Full RB



Date: 26 JUN 2020 21:14:39



26dB Bandwidth

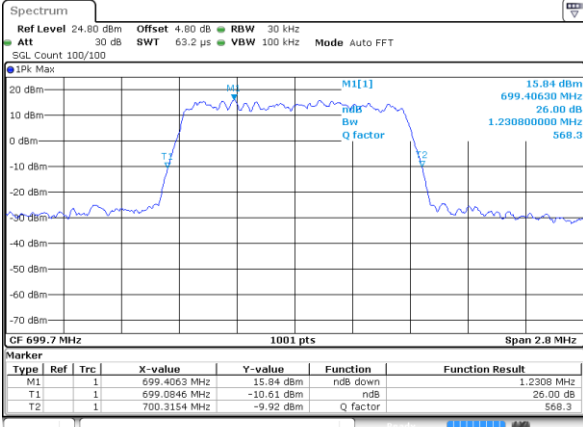
Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.23	1.23	3.01	2.95	4.78	4.92	9.77	9.85	-	-	-	-
Middle CH	1.22	1.24	3.02	2.97	4.87	4.87	9.67	9.87	-	-	-	-
Highest CH	1.24	1.23	2.99	3.02	4.92	4.96	9.71	9.87	-	-	-	-
Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.24	-	3.03	-	4.87	-	9.81	-	-	-	-	-
Middle CH	1.23	-	3.03	-	4.90	-	9.87	-	-	-	-	-
Highest CH	1.23	-	3.02	-	4.94	-	9.81	-	-	-	-	-





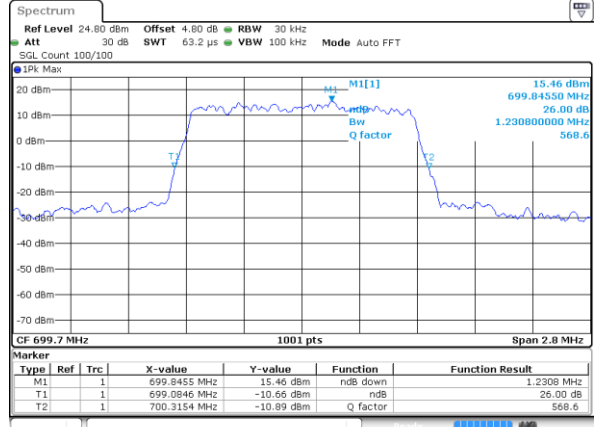
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



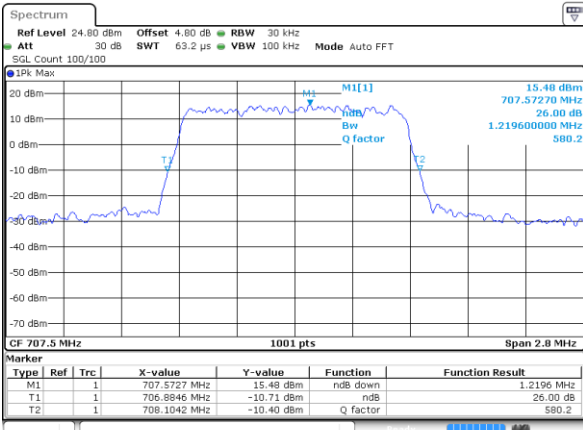
Date: 26 JUN 2020 19:34:41

Lowest Channel / 1.4MHz / 16QAM



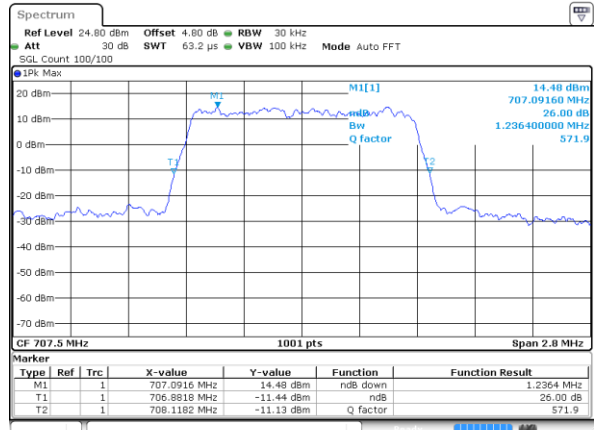
Date: 26 JUN 2020 19:34:31

Middle Channel / 1.4MHz / QPSK



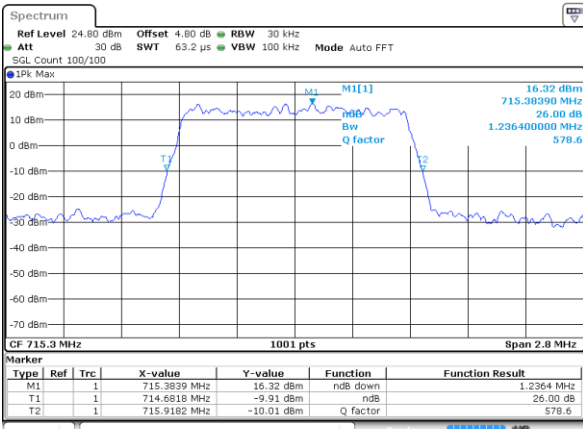
Date: 26 JUN 2020 19:34:11

Middle Channel / 1.4MHz / 16QAM



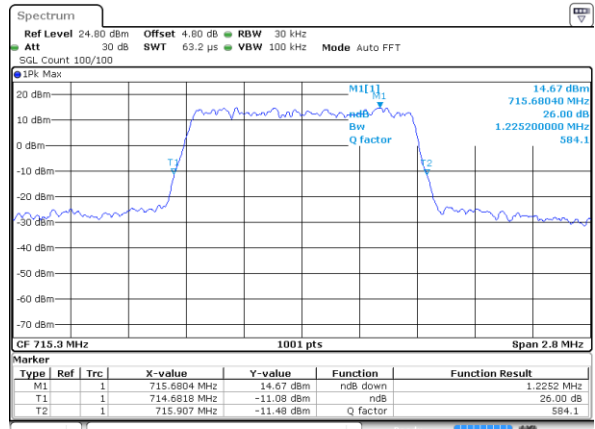
Date: 26 JUN 2020 19:34:21

Highest Channel / 1.4MHz / QPSK



Date: 26 JUN 2020 19:34:01

Highest Channel / 1.4MHz / 16QAM

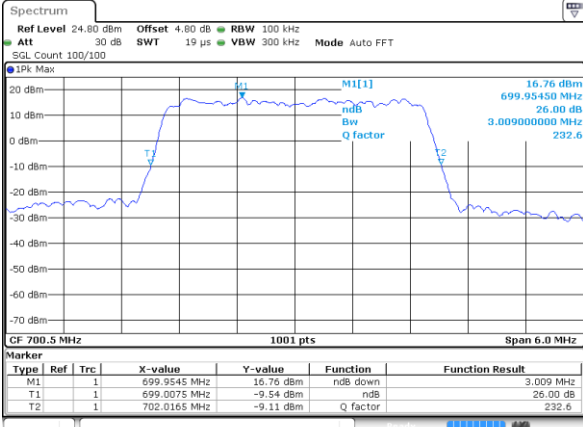


Date: 26 JUN 2020 19:33:50



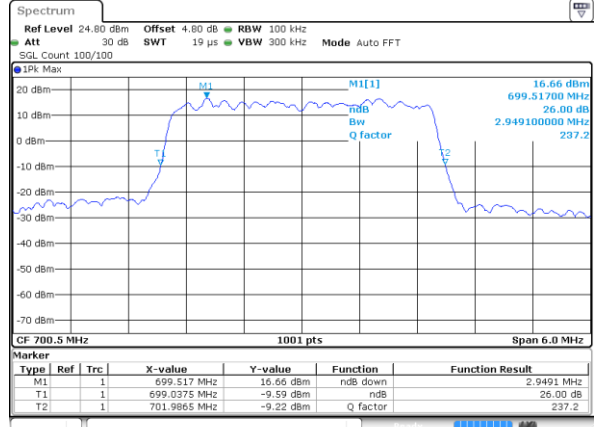
LTE Band 12

Lowest Channel / 3MHz / QPSK



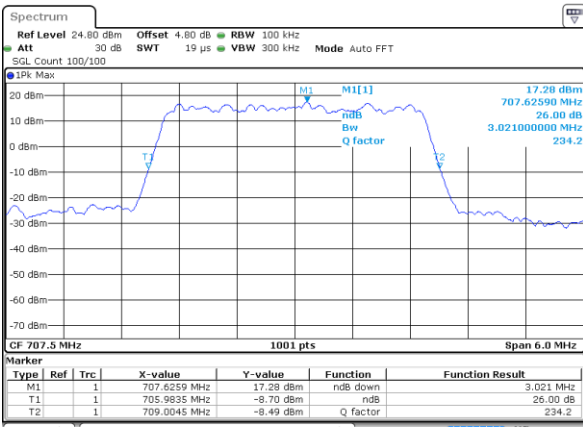
Date: 26 JUN 2020 19:51:08

Lowest Channel / 3MHz / 16QAM



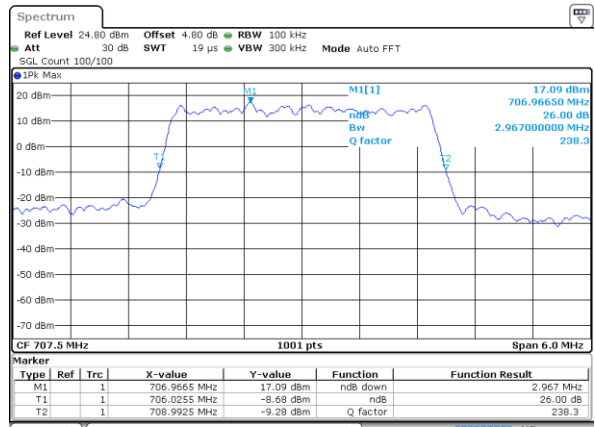
Date: 26 JUN 2020 19:50:58

Middle Channel / 3MHz / QPSK



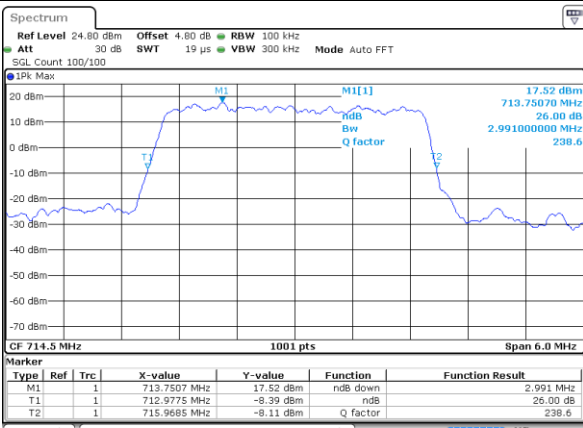
Date: 26 JUN 2020 19:50:38

Middle Channel / 3MHz / 16QAM



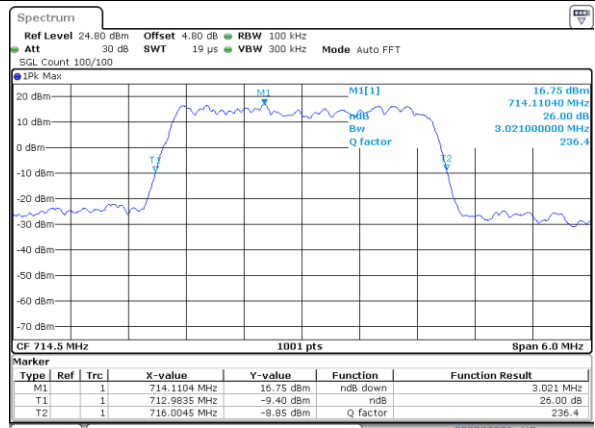
Date: 26 JUN 2020 19:50:48

Highest Channel / 3MHz / QPSK



Date: 26 JUN 2020 19:50:28

Highest Channel / 3MHz / 16QAM

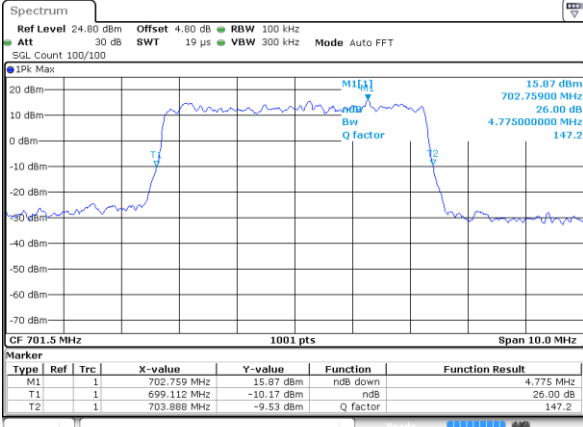


Date: 26 JUN 2020 19:50:18



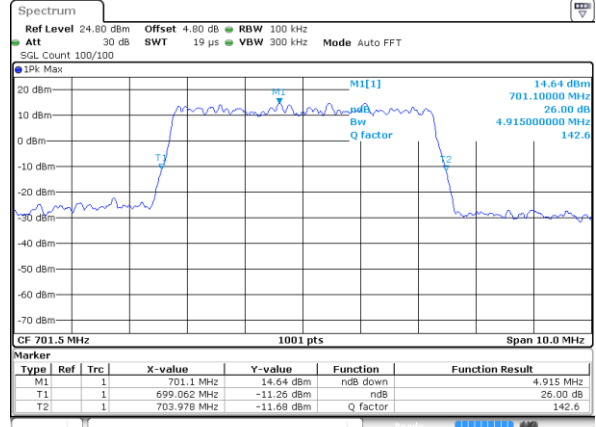
LTE Band 12

Lowest Channel / 5MHz / QPSK



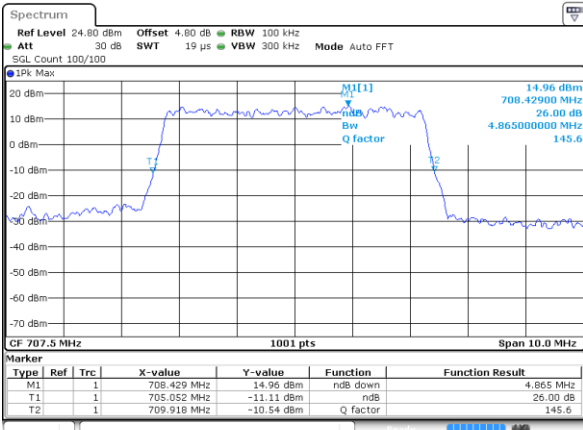
Date: 26 JUN 2020 20:07:36

Lowest Channel / 5MHz / 16QAM



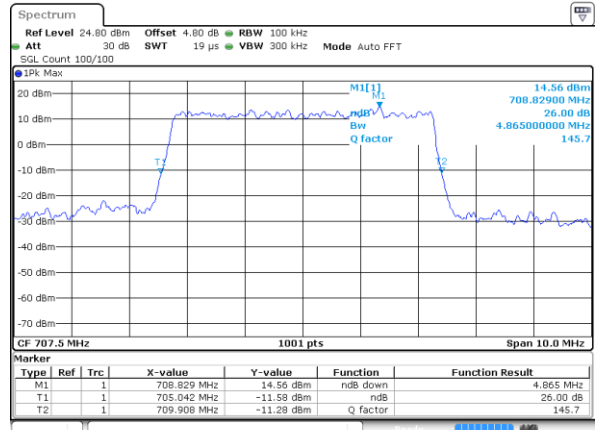
Date: 26 JUN 2020 20:07:26

Middle Channel / 5MHz / QPSK



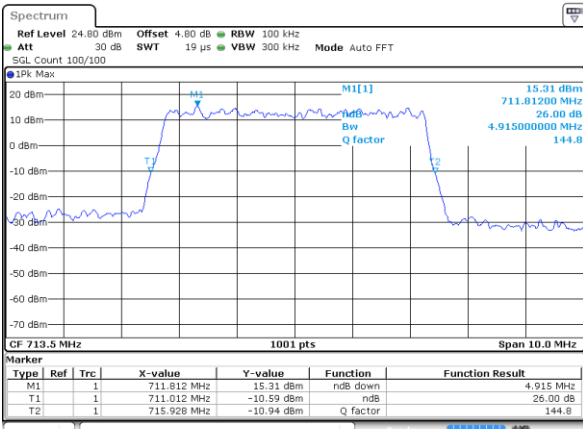
Date: 26 JUN 2020 20:07:06

Middle Channel / 5MHz / 16QAM



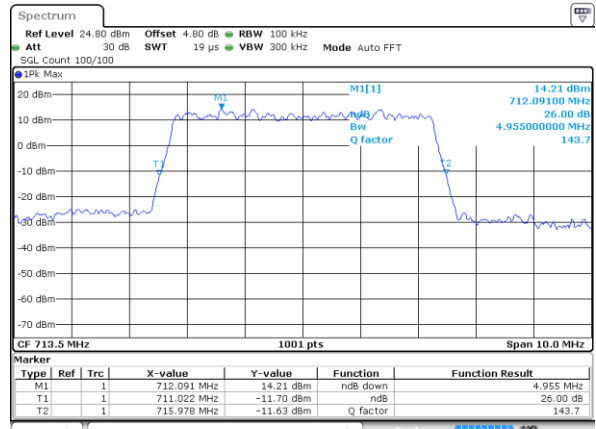
Date: 26 JUN 2020 20:07:16

Highest Channel / 5MHz / QPSK



Date: 26 JUN 2020 20:06:56

Highest Channel / 5MHz / 16QAM

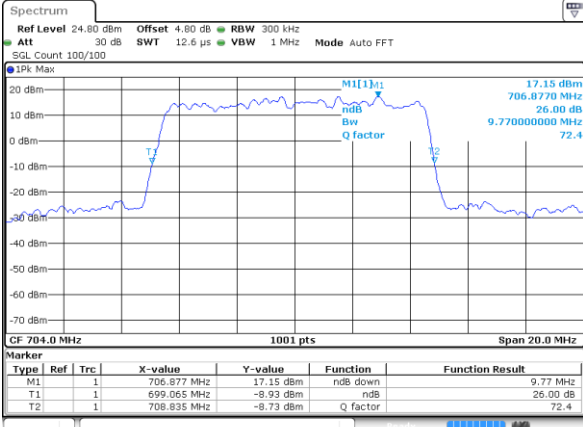


Date: 26 JUN 2020 20:06:46



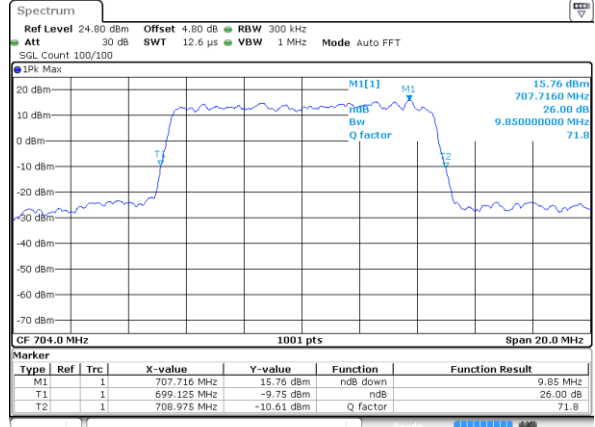
LTE Band 12

Lowest Channel / 10MHz / QPSK



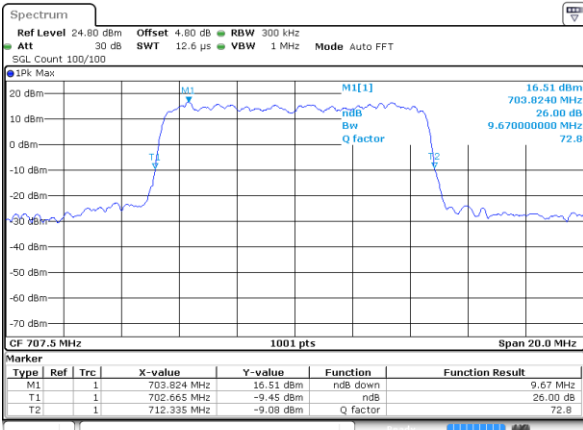
Date: 26 JUN 2020 20:24:04

Lowest Channel / 10MHz / 16QAM



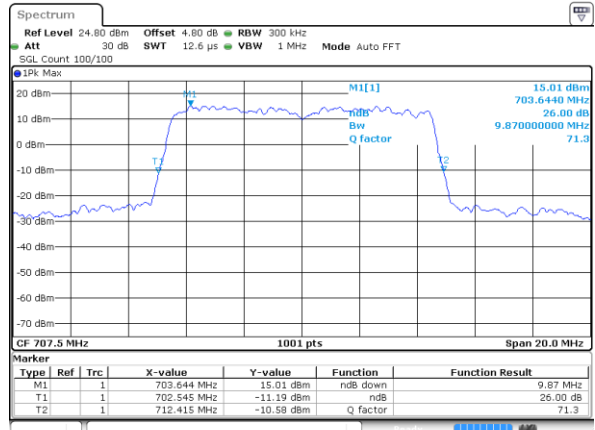
Date: 26 JUN 2020 20:23:54

Middle Channel / 10MHz / QPSK



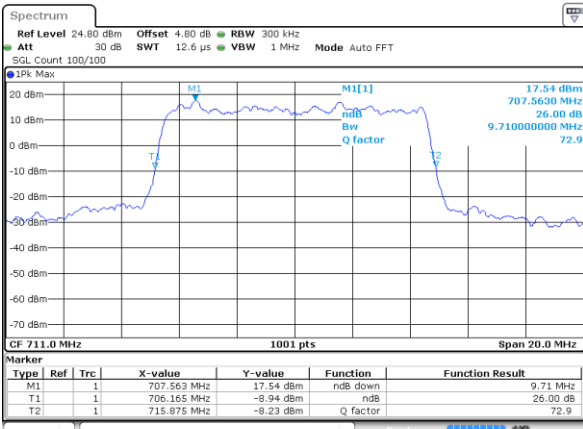
Date: 26 JUN 2020 20:23:34

Middle Channel / 10MHz / 16QAM



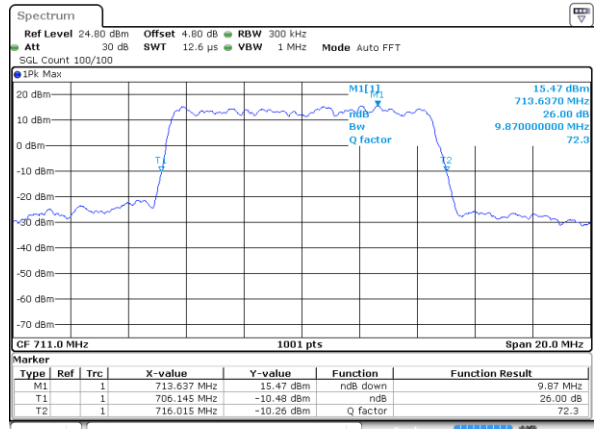
Date: 26 JUN 2020 20:23:44

Highest Channel / 10MHz / QPSK



Date: 26 JUN 2020 20:23:24

Highest Channel / 10MHz / 16QAM



Date: 26 JUN 2020 20:23:14