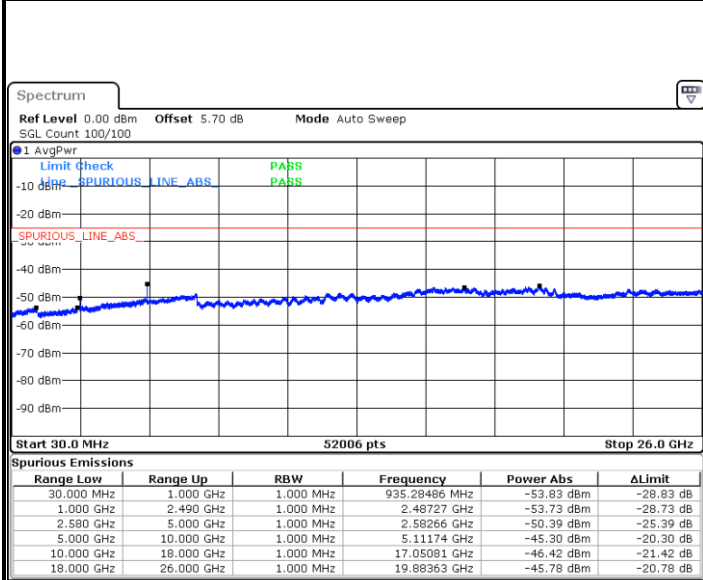




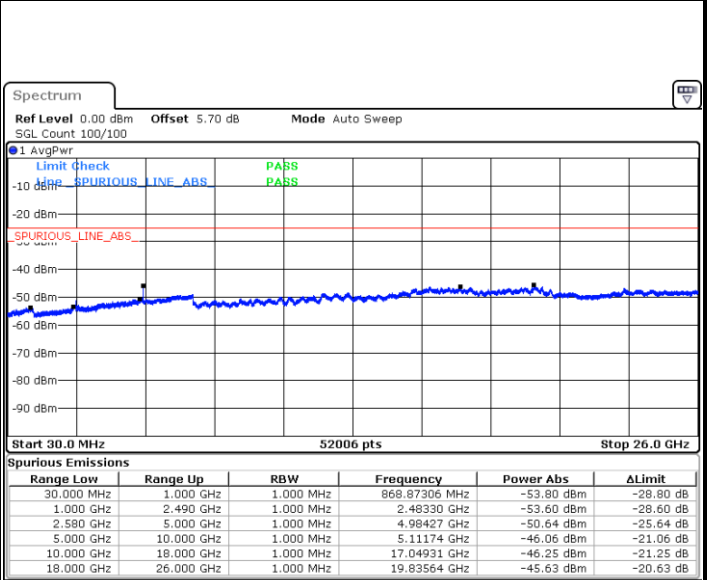
LTE Band7 / 15MHz

Highest Channel / QPSK



Date: 25 AUG 2020 05:56:33

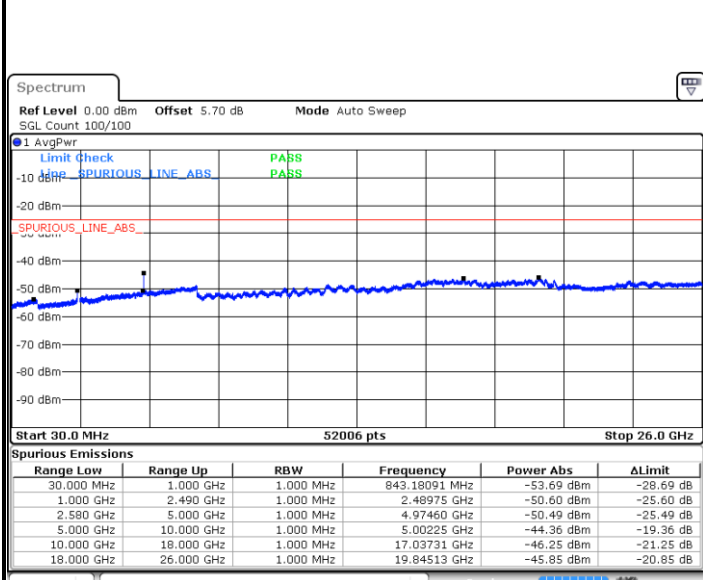
Highest Channel / 16QAM



Date: 25 AUG 2020 05:57:27

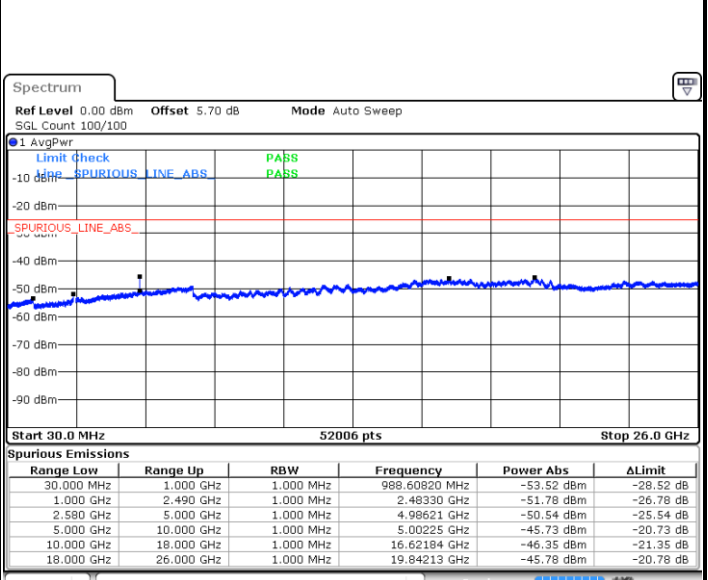
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 25 AUG 2020 06:09:48

Lowest Channel / 16QAM



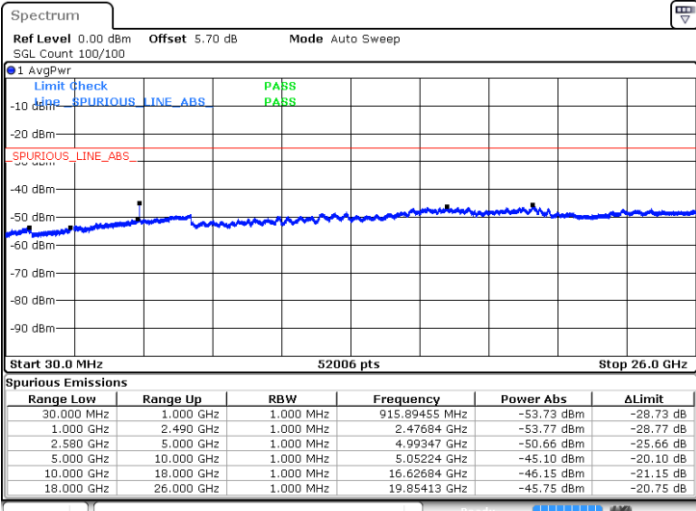
Date: 25 AUG 2020 06:10:42



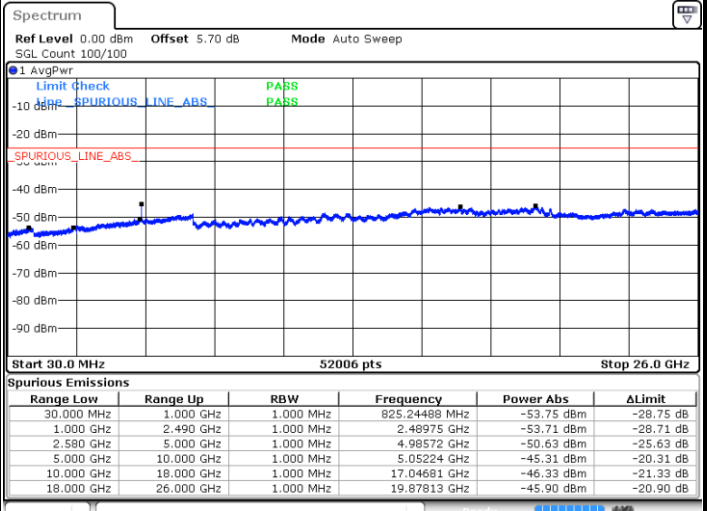
LTE Band 7 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM



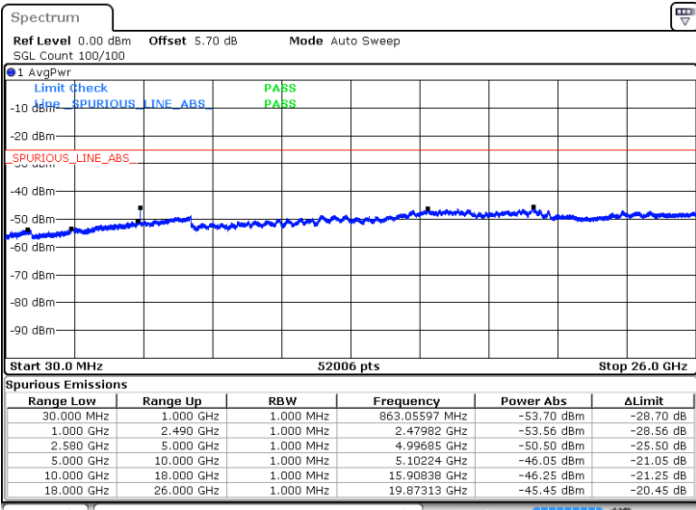
Date: 25 AUG.2020 06:12:30



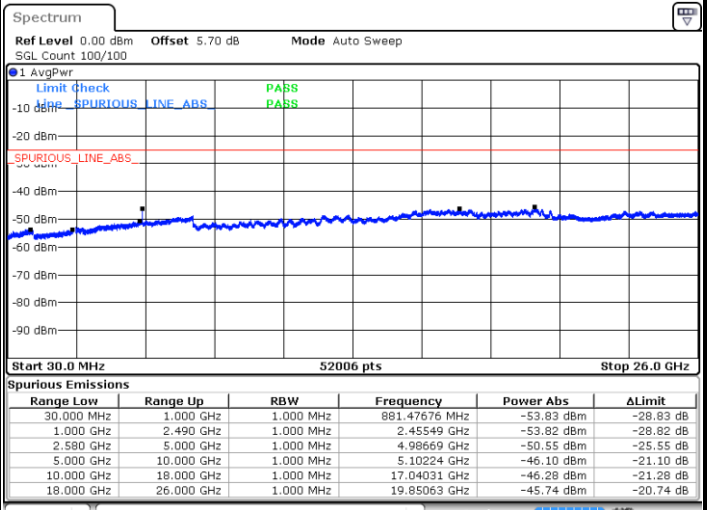
Date: 25 AUG.2020 06:11:36

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 25 AUG.2020 06:13:24



Date: 25 AUG.2020 06:14:18



### 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	0.0024	PASS
40	Normal Voltage	0.0029	
30	Normal Voltage	0.0007	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0019	
0	Normal Voltage	0.0032	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0021	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0027	

**Note:**

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.3 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 12

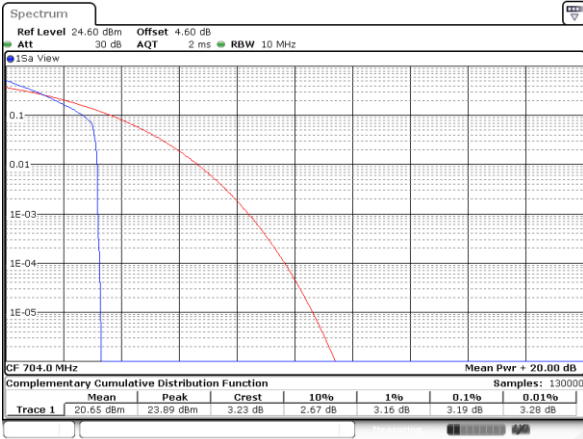
### Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.19	4.58	4.35	5.74	<b>PASS</b>
Middle CH	3.33	4.43	4.49	5.68	
Highest CH	3.57	4.38	4.72	5.57	



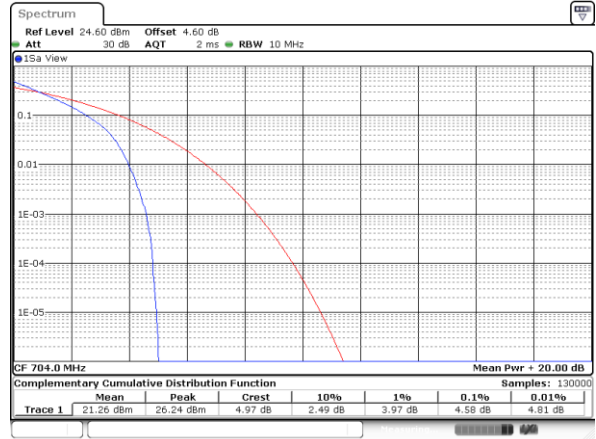
LTE Band 12 / 10MHz / QPSK

Lowest Channel / 1RB



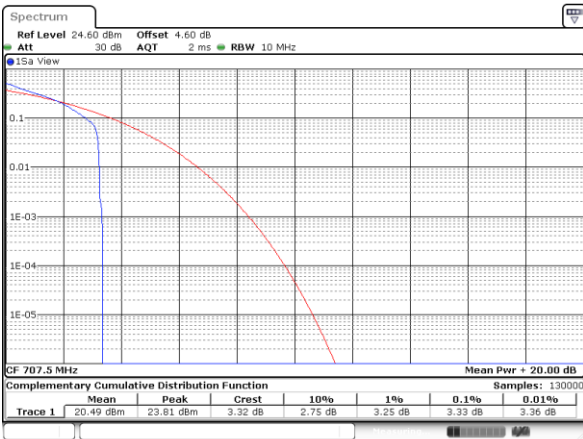
Date: 26 AUG 2020 00:09:07

Lowest Channel / Full RB



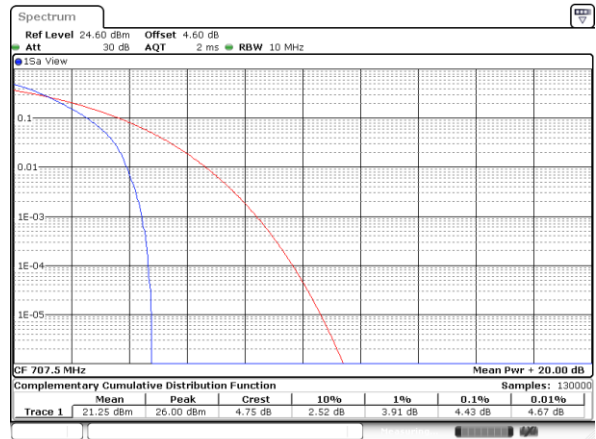
Date: 26 AUG 2020 00:09:16

Middle Channel / 1RB



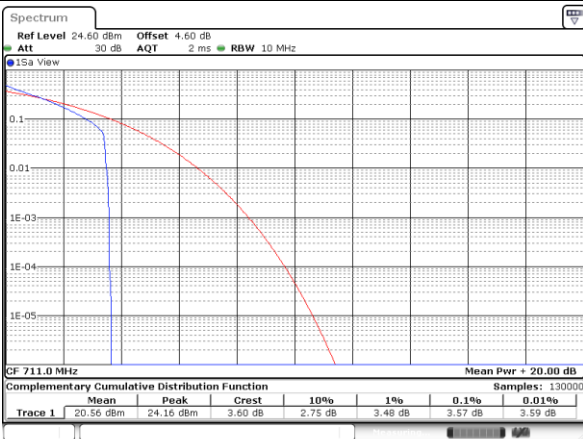
Date: 26 AUG 2020 00:09:53

Middle Channel / Full RB



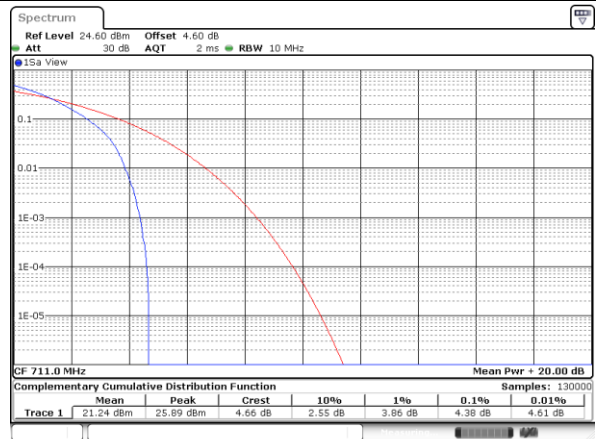
Date: 26 AUG 2020 00:09:44

Highest Channel / 1RB



Date: 26 AUG 2020 00:10:21

Highest Channel / Full RB

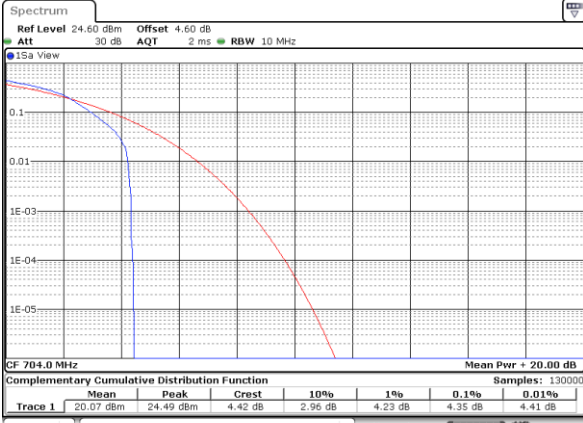


Date: 26 AUG 2020 00:10:30



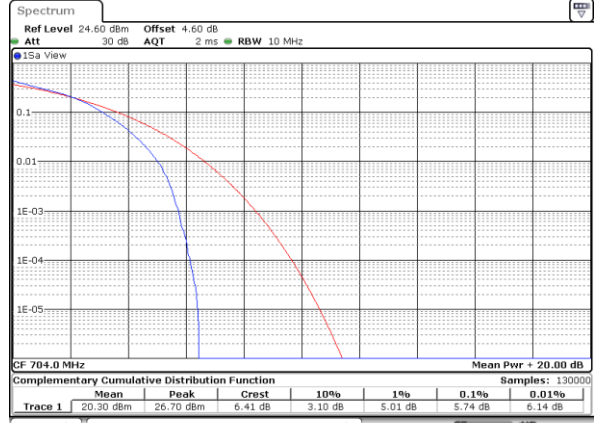
LTE Band 12 / 10MHz / 16QAM

Lowest Channel / 1RB



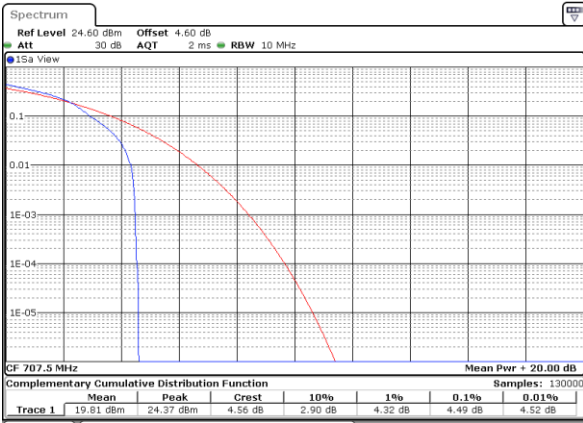
Date: 26 AUG 2020 00:08:57

Lowest Channel / Full RB



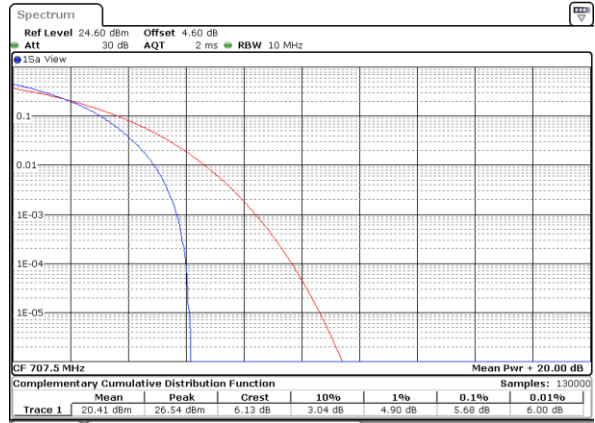
Date: 26 AUG 2020 00:09:26

Middle Channel / 1RB



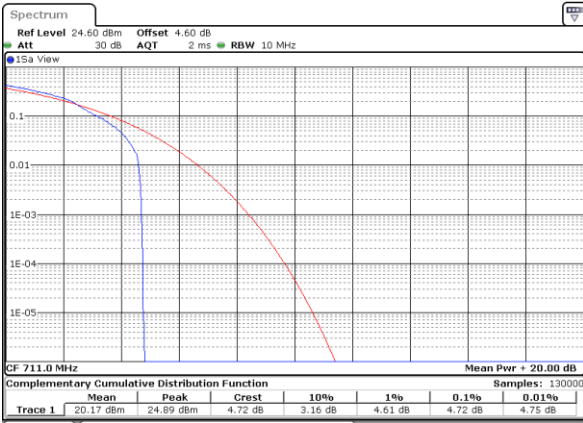
Date: 26 AUG 2020 00:10:03

Middle Channel / Full RB



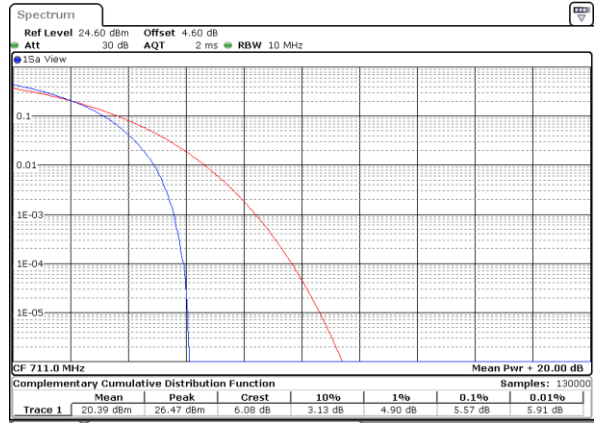
Date: 26 AUG 2020 00:09:35

Highest Channel / 1RB



Date: 26 AUG 2020 00:10:12

Highest Channel / Full RB



Date: 26 AUG 2020 00:10:40



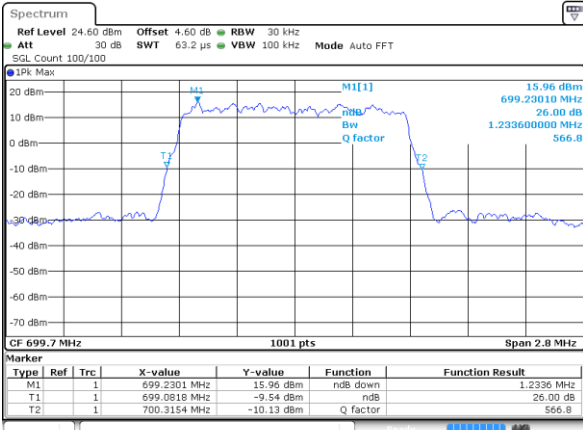
**26dB Bandwidth**

Mode	LTE Band 12 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.23	1.23	3.03	3.02	4.90	4.93	9.85	9.83	-	-	-	-
Middle CH	1.23	1.23	3.01	2.99	4.92	4.88	9.67	9.75	-	-	-	-
Highest CH	1.23	1.22	3.02	3.05	4.85	4.88	9.83	9.61	-	-	-	-



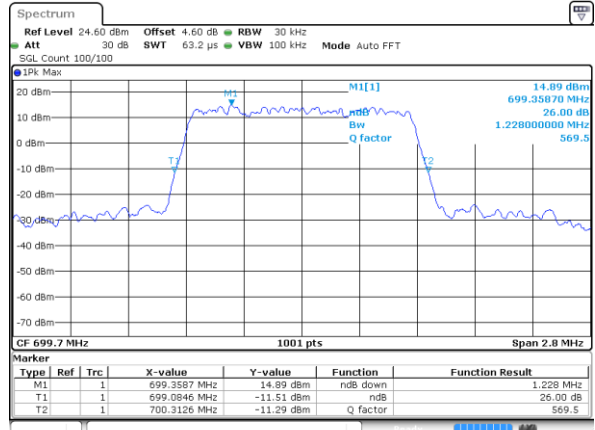
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



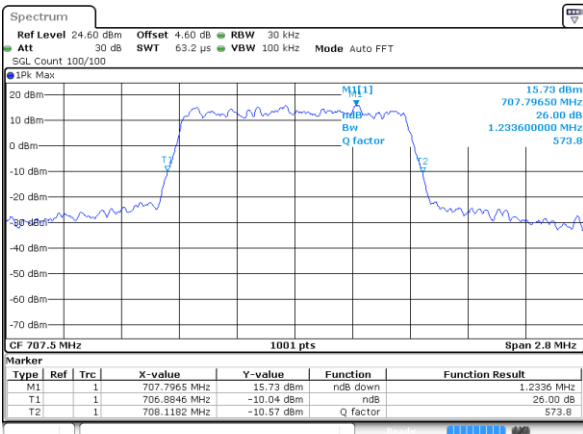
Date: 25 AUG 2020 22:46:34

Lowest Channel / 1.4MHz / 16QAM



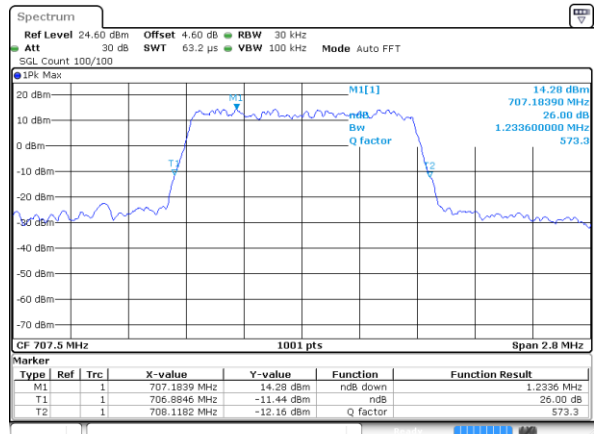
Date: 25 AUG 2020 22:46:24

Middle Channel / 1.4MHz / QPSK



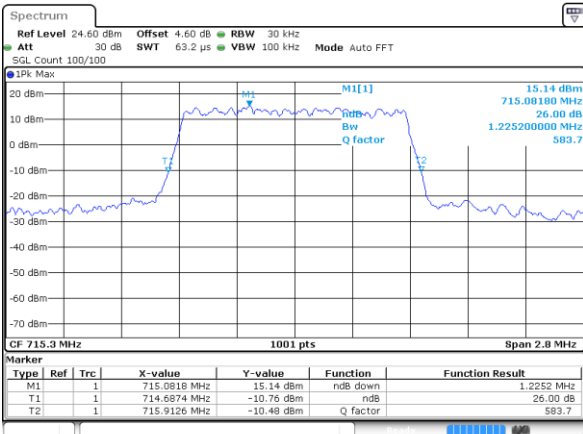
Date: 25 AUG 2020 22:46:04

Middle Channel / 1.4MHz / 16QAM



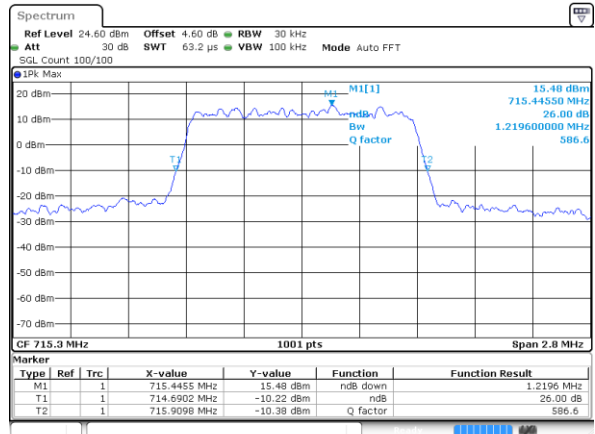
Date: 25 AUG 2020 22:46:14

Highest Channel / 1.4MHz / QPSK



Date: 25 AUG 2020 22:45:55

Highest Channel / 1.4MHz / 16QAM



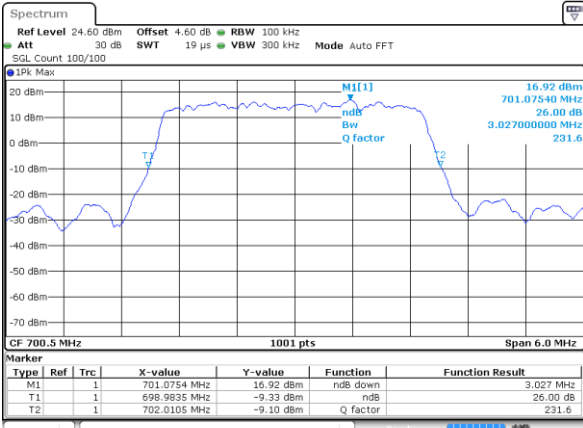
Date: 25 AUG 2020 22:45:45





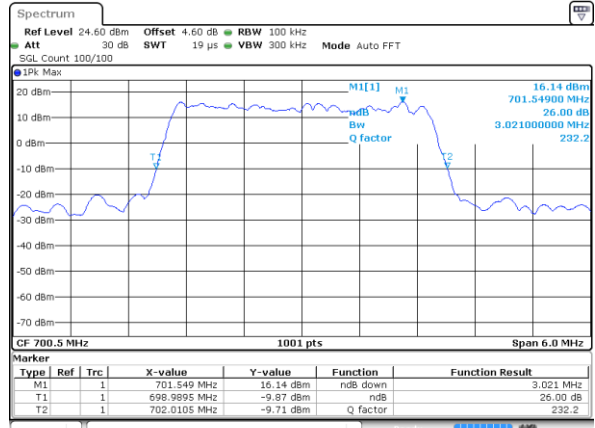
LTE Band 12

Lowest Channel / 3MHz / QPSK



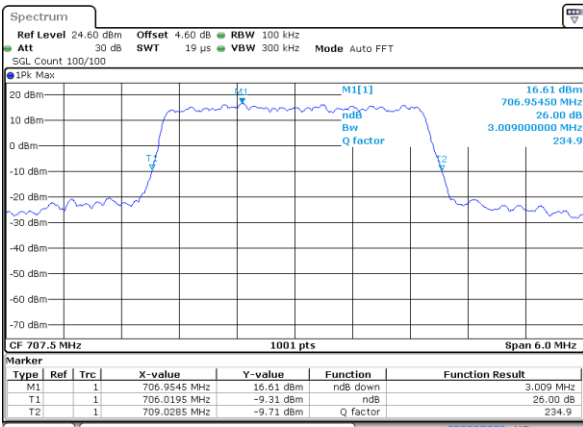
Date: 25 AUG 2020 23:12:29

Lowest Channel / 3MHz / 16QAM



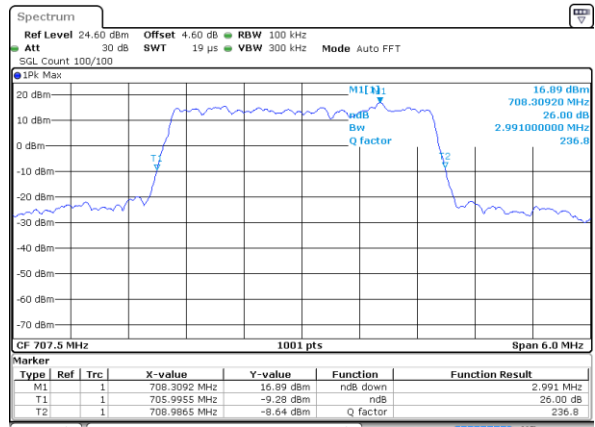
Date: 25 AUG 2020 23:12:19

Middle Channel / 3MHz / QPSK



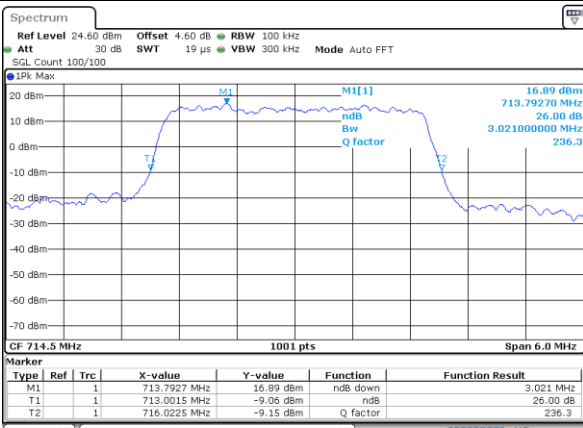
Date: 25 AUG 2020 23:11:59

Middle Channel / 3MHz / 16QAM



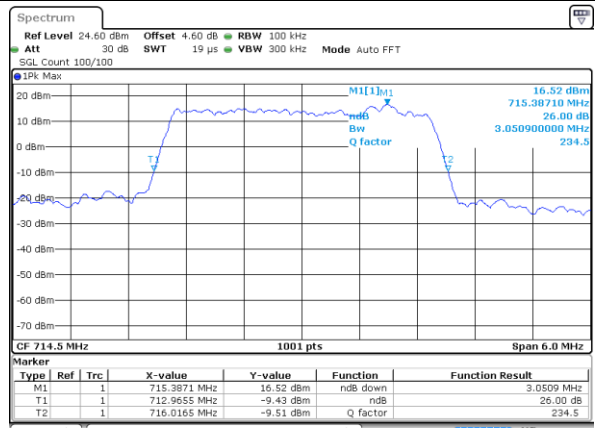
Date: 25 AUG 2020 23:12:09

Highest Channel / 3MHz / QPSK



Date: 25 AUG 2020 23:11:49

Highest Channel / 3MHz / 16QAM

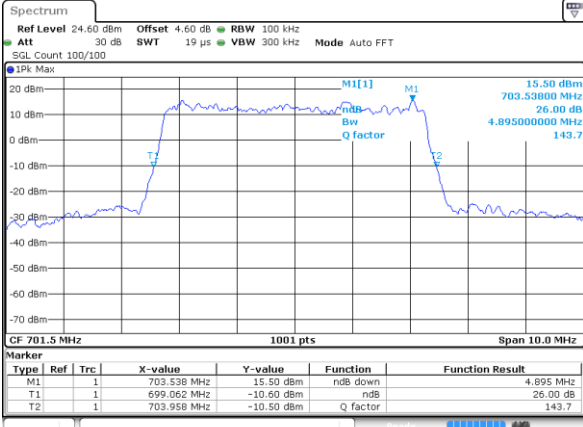


Date: 25 AUG 2020 23:11:39



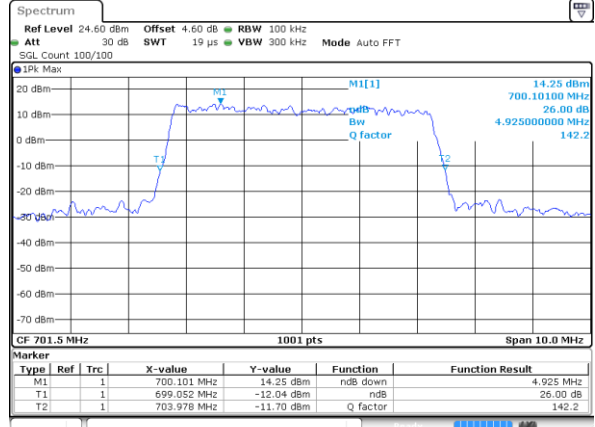
LTE Band 12

Lowest Channel / 5MHz / QPSK



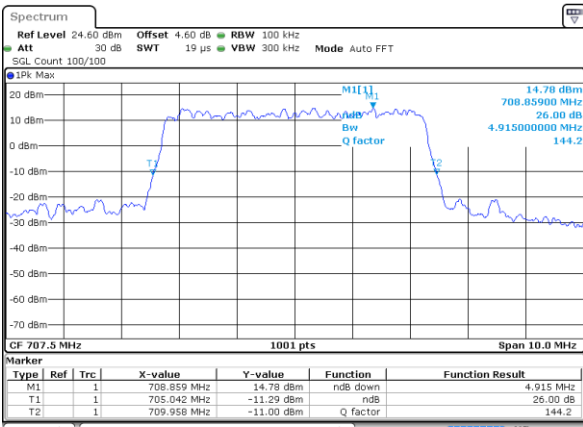
Date: 25 AUG 2020 23:34:16

Lowest Channel / 5MHz / 16QAM



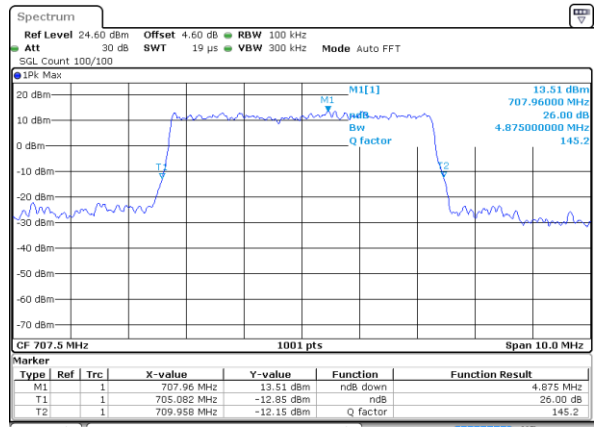
Date: 25 AUG 2020 23:34:06

Middle Channel / 5MHz / QPSK



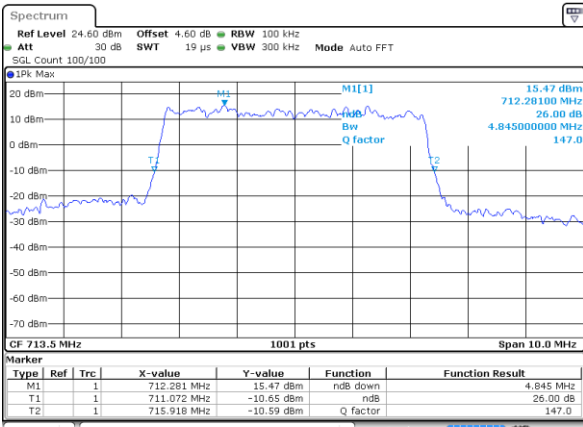
Date: 25 AUG 2020 23:33:46

Middle Channel / 5MHz / 16QAM



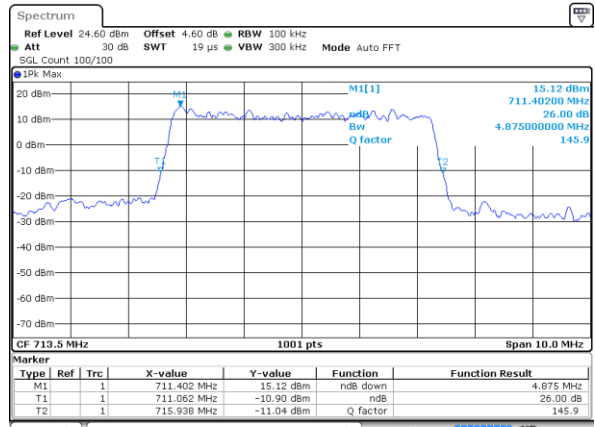
Date: 25 AUG 2020 23:33:56

Highest Channel / 5MHz / QPSK



Date: 25 AUG 2020 23:33:36

Highest Channel / 5MHz / 16QAM

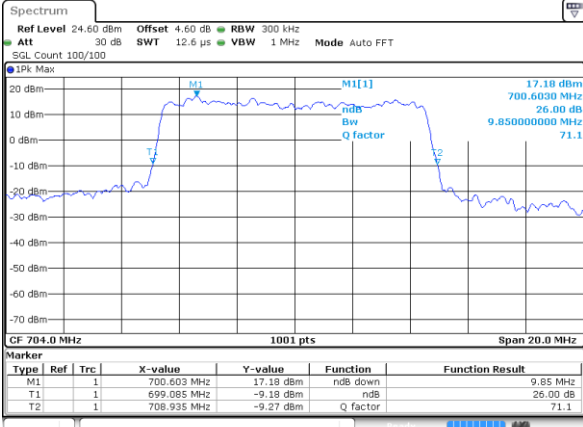


Date: 25 AUG 2020 23:33:26



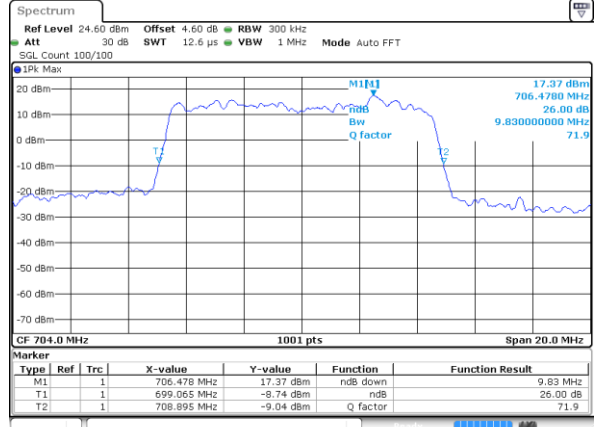
LTE Band 12

Lowest Channel / 10MHz / QPSK



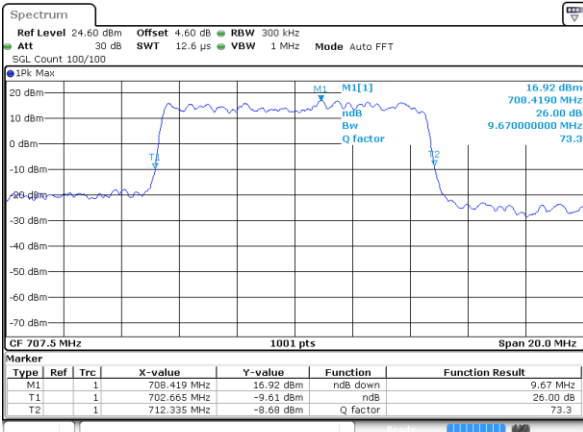
Date: 25 AUG 2020 23:52:41

Lowest Channel / 10MHz / 16QAM



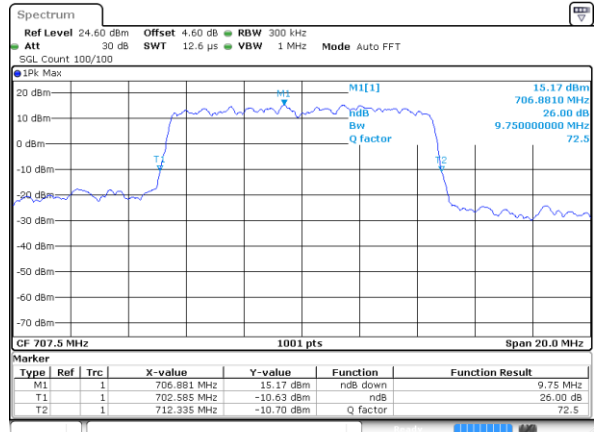
Date: 25 AUG 2020 23:52:31

Middle Channel / 10MHz / QPSK



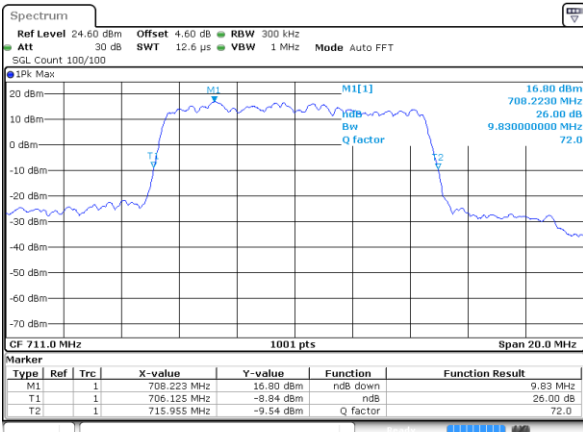
Date: 25 AUG 2020 23:52:11

Middle Channel / 10MHz / 16QAM



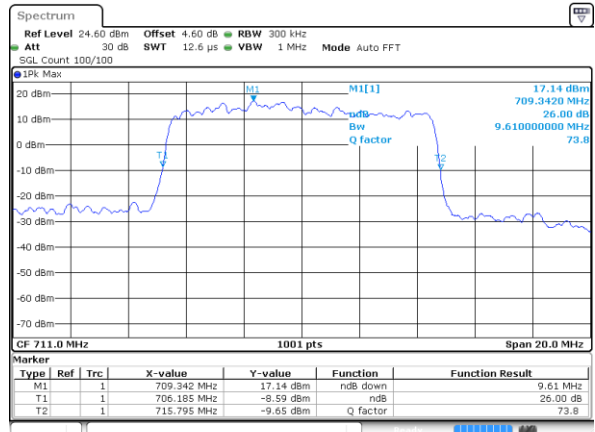
Date: 25 AUG 2020 23:52:21

Highest Channel / 10MHz / QPSK



Date: 25 AUG 2020 23:52:01

Highest Channel / 10MHz / 16QAM



Date: 25 AUG 2020 23:51:51



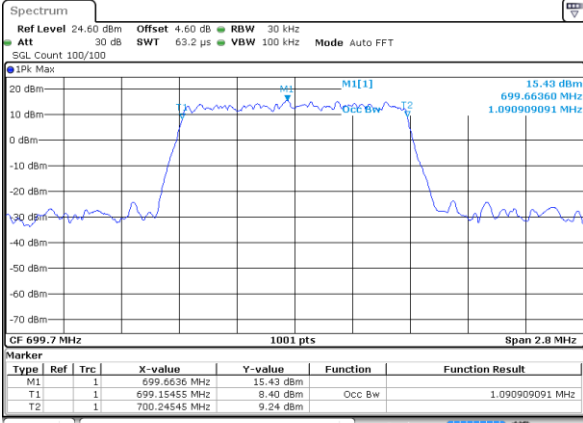
### Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.10	2.71	2.73	4.50	4.47	9.05	9.07	-	-	-	-
Middle CH	1.09	1.09	2.70	2.72	4.49	4.52	9.03	8.99	-	-	-	-
Highest CH	1.09	1.10	2.73	2.72	4.50	4.52	8.93	9.03	-	-	-	-



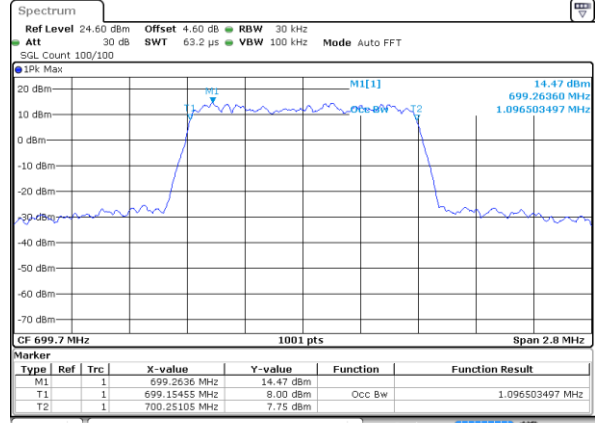
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



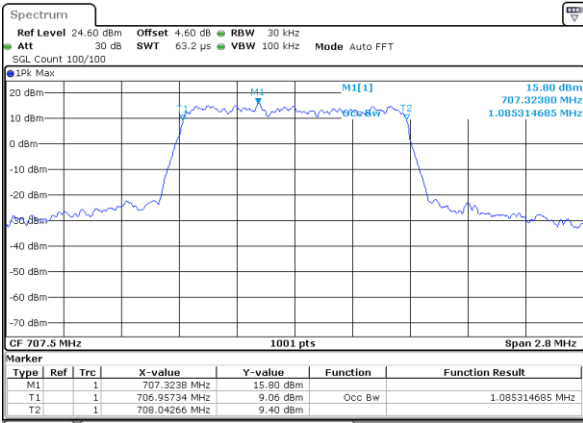
Date: 25 AUG 2020 22:44:45

Lowest Channel / 1.4MHz / 16QAM



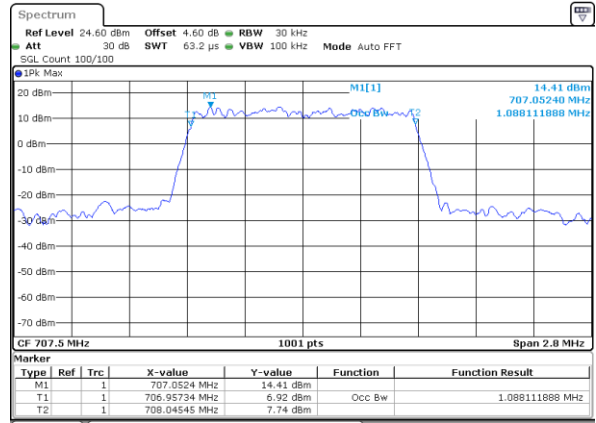
Date: 25 AUG 2020 22:44:55

Middle Channel / 1.4MHz / QPSK



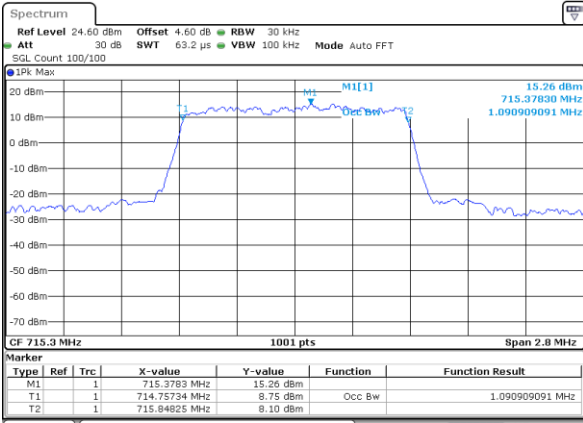
Date: 25 AUG 2020 22:45:15

Middle Channel / 1.4MHz / 16QAM



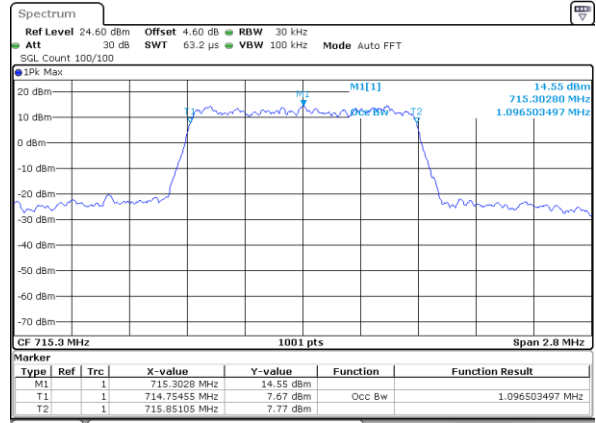
Date: 25 AUG 2020 22:45:05

Highest Channel / 1.4MHz / QPSK



Date: 25 AUG 2020 22:45:25

Highest Channel / 1.4MHz / 16QAM

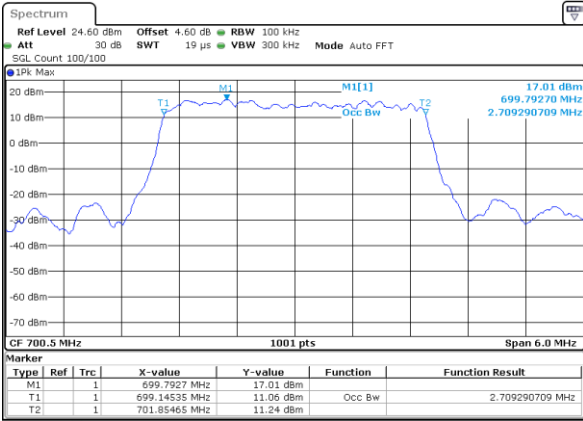


Date: 25 AUG 2020 22:45:35



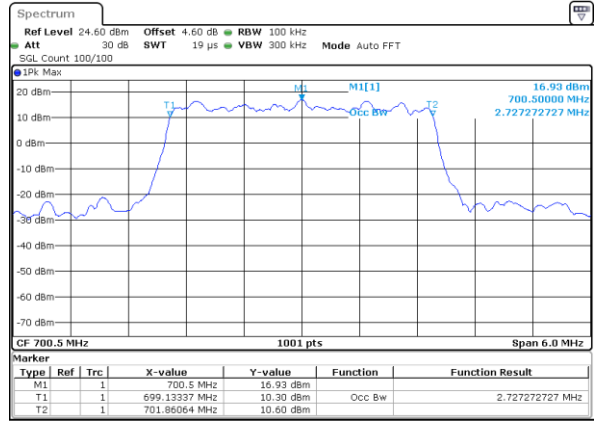
LTE Band 12

Lowest Channel / 3MHz / QPSK



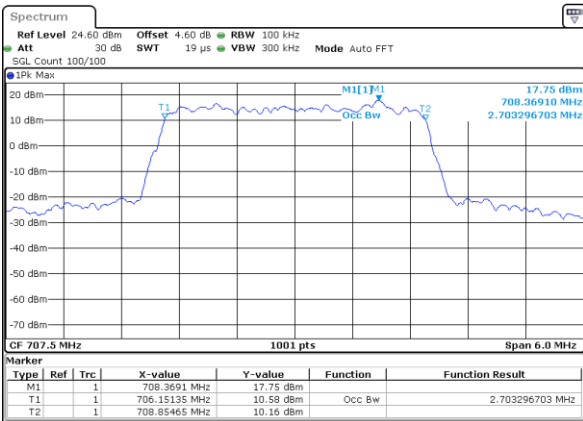
Date: 25 AUG 2020 23:10:39

Lowest Channel / 3MHz / 16QAM



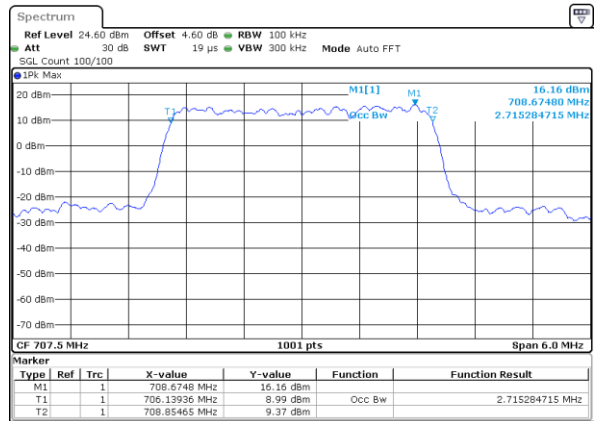
Date: 25 AUG 2020 23:10:49

Middle Channel / 3MHz / QPSK



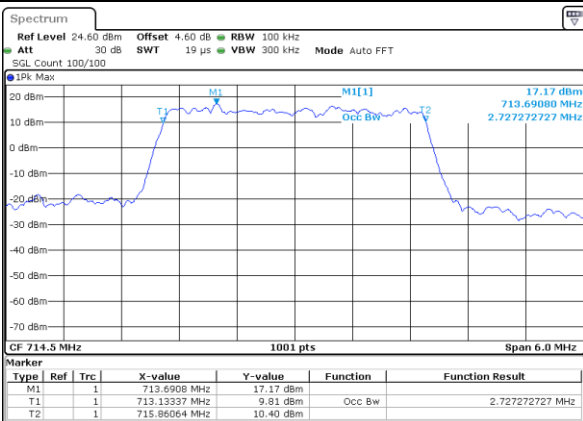
Date: 25 AUG 2020 23:11:09

Middle Channel / 3MHz / 16QAM



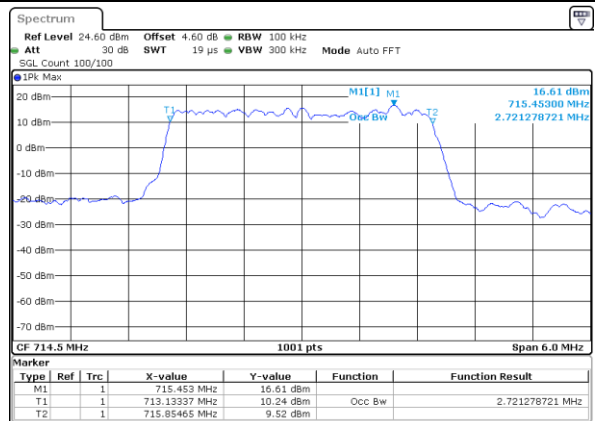
Date: 25 AUG 2020 23:10:59

Highest Channel / 3MHz / QPSK



Date: 25 AUG 2020 23:11:19

Highest Channel / 3MHz / 16QAM

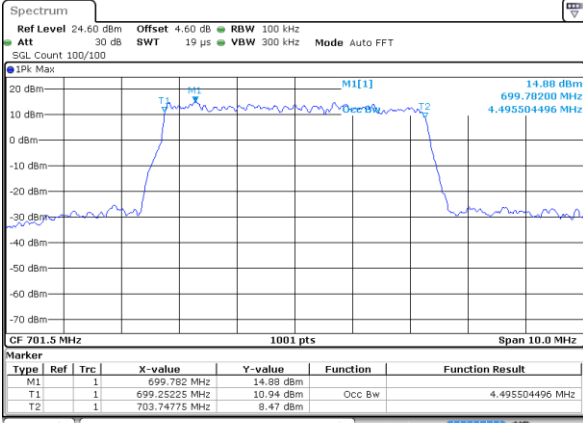


Date: 25 AUG 2020 23:11:29



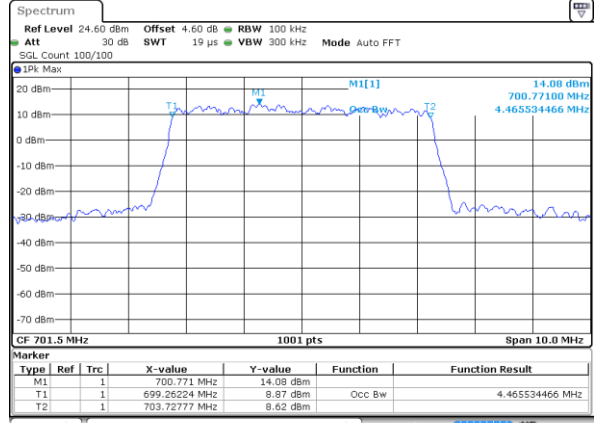
LTE Band 12

Lowest Channel / 5MHz / QPSK



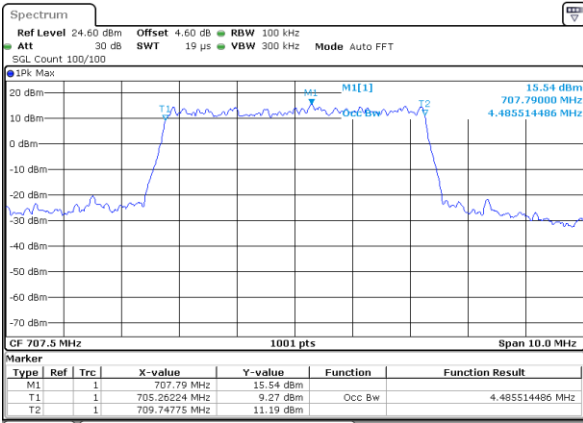
Date: 25 AUG 2020 23:32:26

Lowest Channel / 5MHz / 16QAM



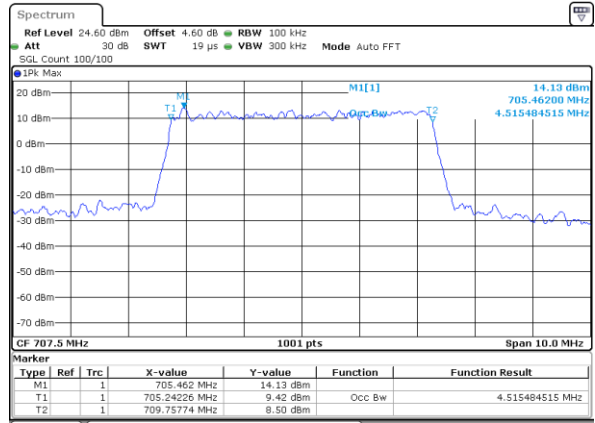
Date: 25 AUG 2020 23:32:36

Middle Channel / 5MHz / QPSK



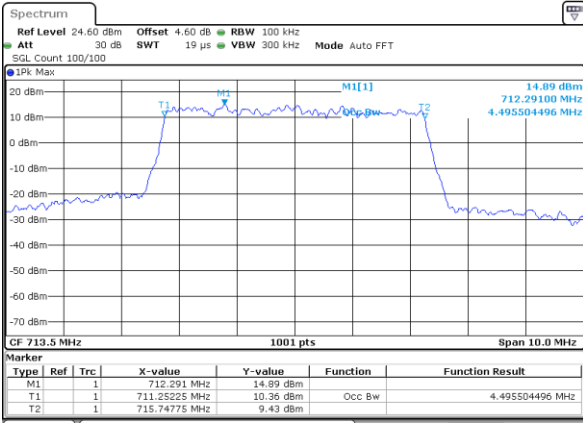
Date: 25 AUG 2020 23:32:56

Middle Channel / 5MHz / 16QAM



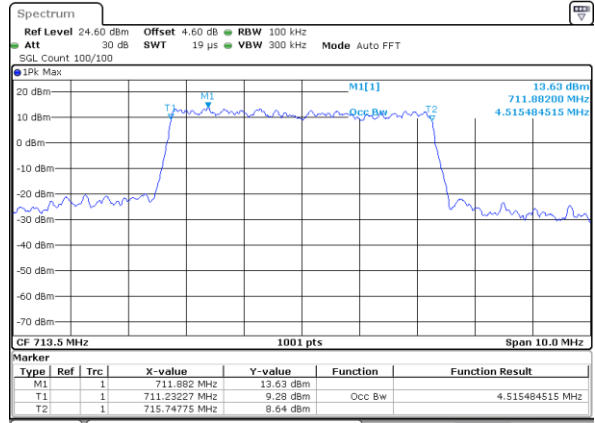
Date: 25 AUG 2020 23:32:46

Highest Channel / 5MHz / QPSK



Date: 25 AUG 2020 23:33:06

Highest Channel / 5MHz / 16QAM

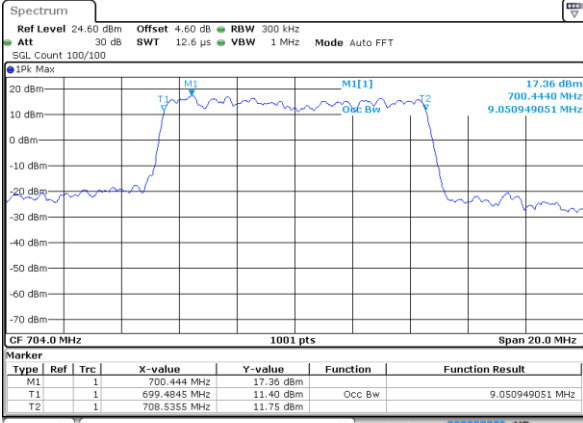


Date: 25 AUG 2020 23:33:16



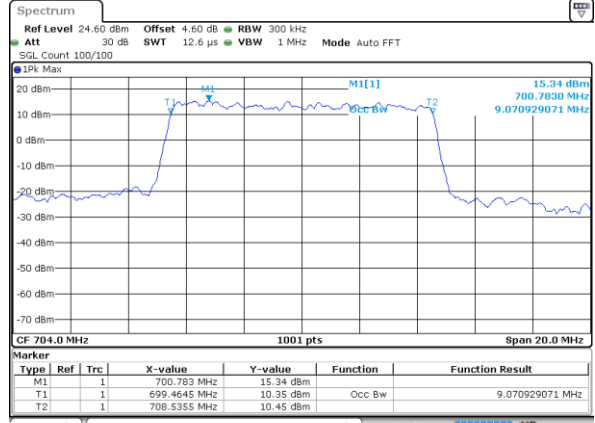
LTE Band 12

Lowest Channel / 10MHz / QPSK



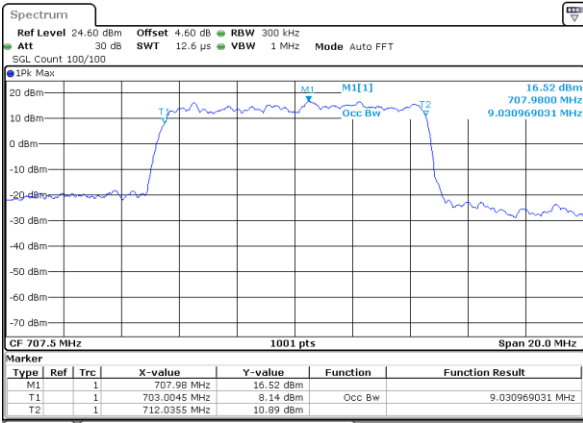
Date: 25 AUG 2020 23:50:51

Lowest Channel / 10MHz / 16QAM



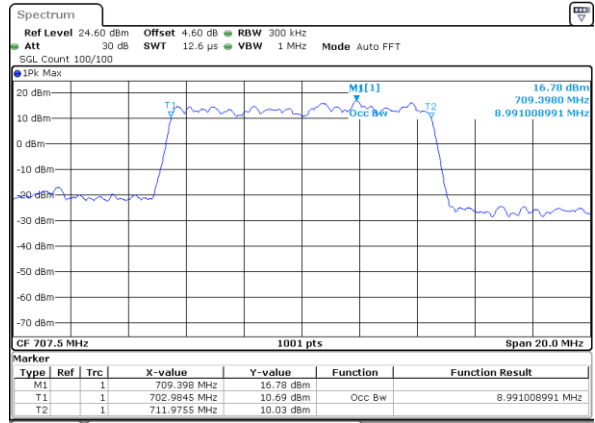
Date: 25 AUG 2020 23:51:01

Middle Channel / 10MHz / QPSK



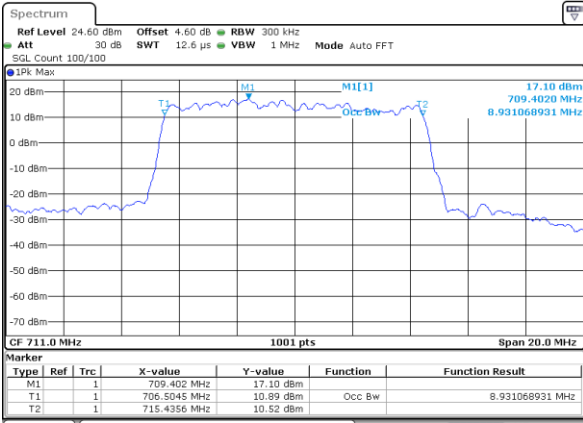
Date: 25 AUG 2020 23:51:21

Middle Channel / 10MHz / 16QAM



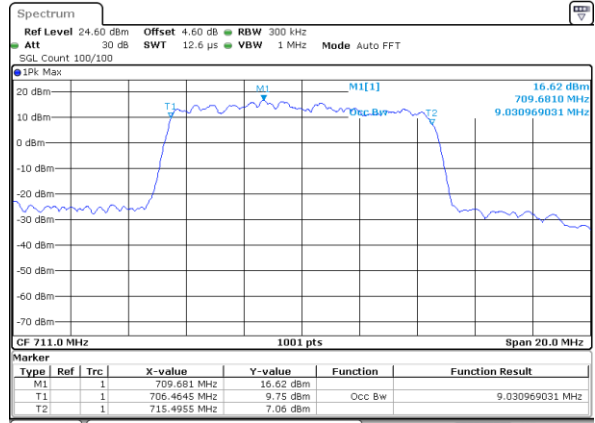
Date: 25 AUG 2020 23:51:11

Highest Channel / 10MHz / QPSK



Date: 25 AUG 2020 23:51:31

Highest Channel / 10MHz / 16QAM

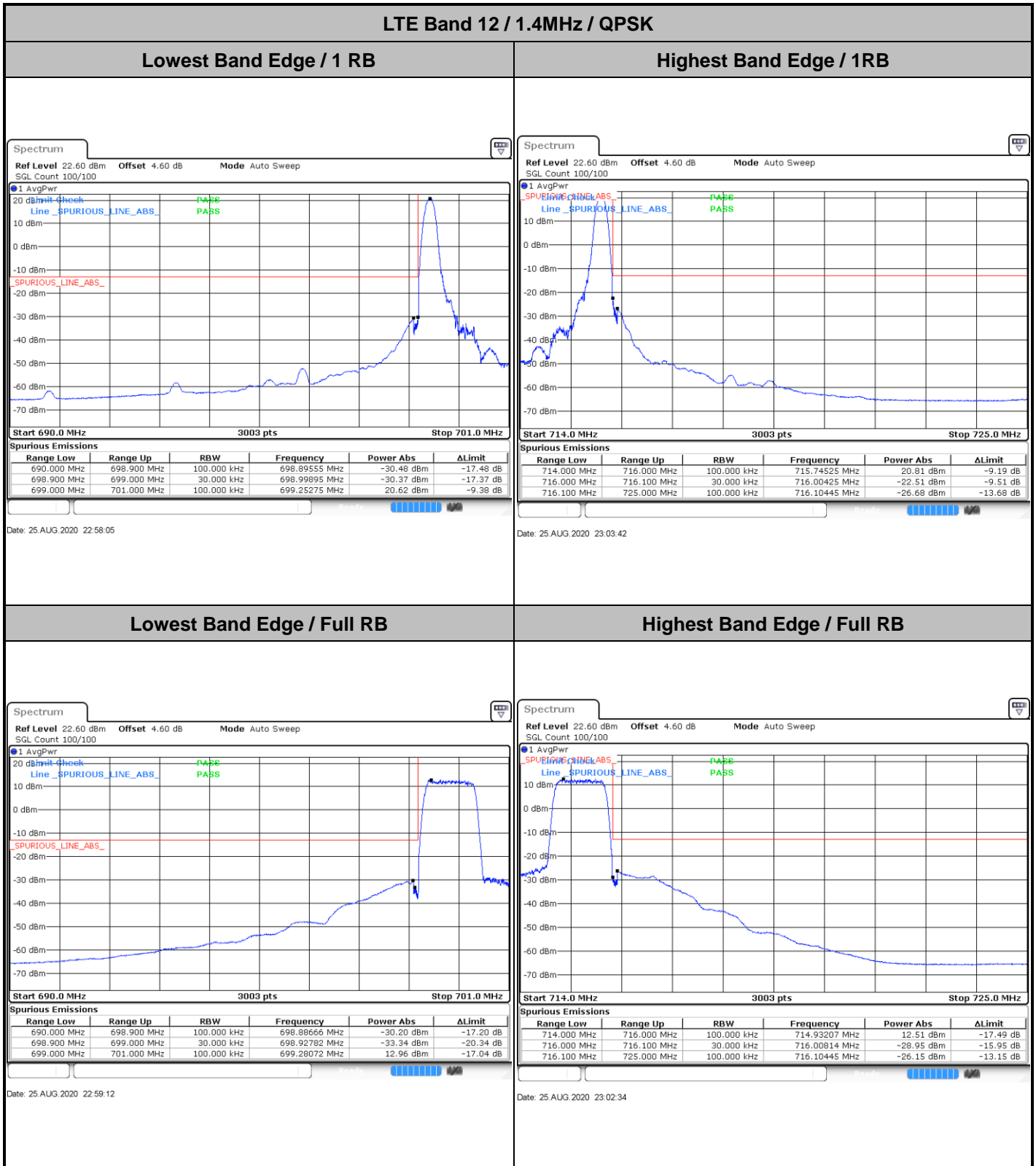


Date: 25 AUG 2020 23:51:41





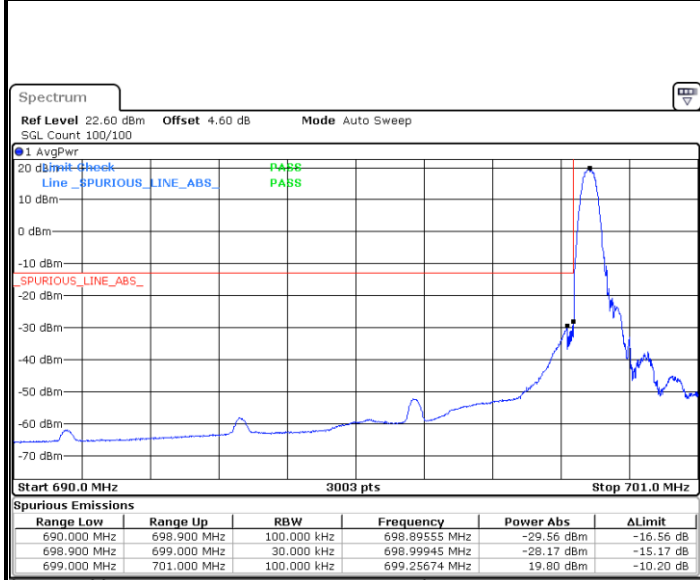
# Conducted Band Edge





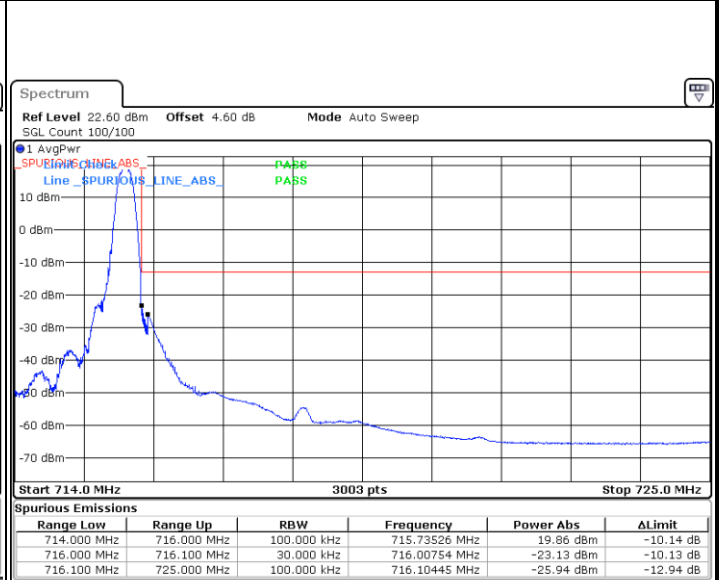
**LTE Band 12 / 1.4MHz / 16QAM**

**Lowest Band Edge / 1 RB**



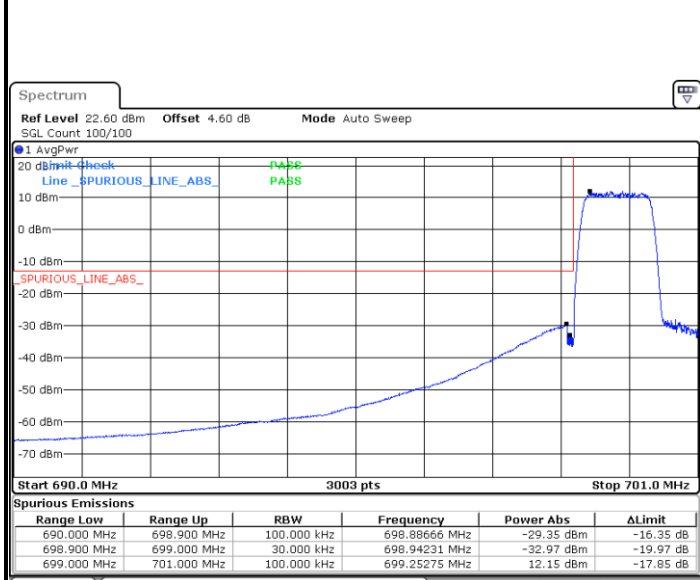
Date: 25 AUG 2020 22:56:57

**Highest Band Edge / 1 RB**



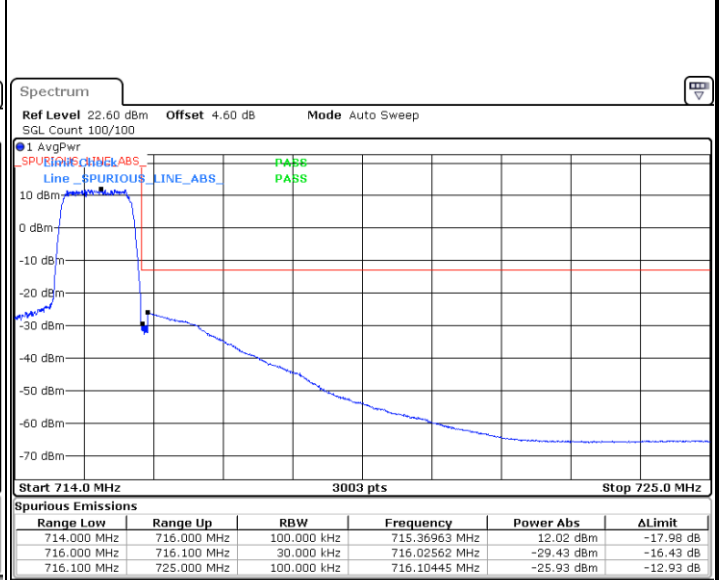
Date: 25 AUG 2020 23:04:49

**Lowest Band Edge / Full RB**



Date: 25 AUG 2020 23:00:20

**Highest Band Edge / Full RB**

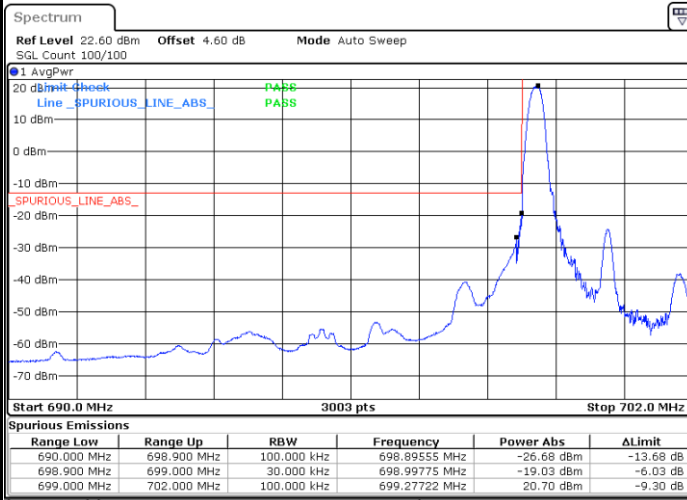


Date: 25 AUG 2020 23:01:27



LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



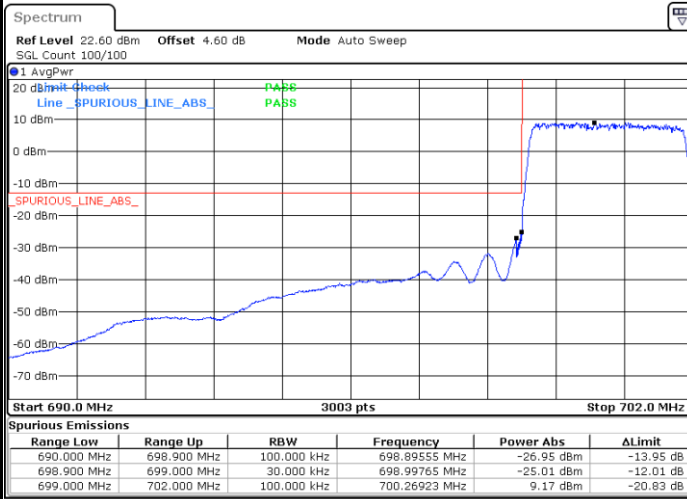
Date: 25 AUG 2020 23:20:09

Highest Band Edge / 1 RB



Date: 25 AUG 2020 23:25:46

Lowest Band Edge / Full RB



Date: 25 AUG 2020 23:21:17

Highest Band Edge / Full RB

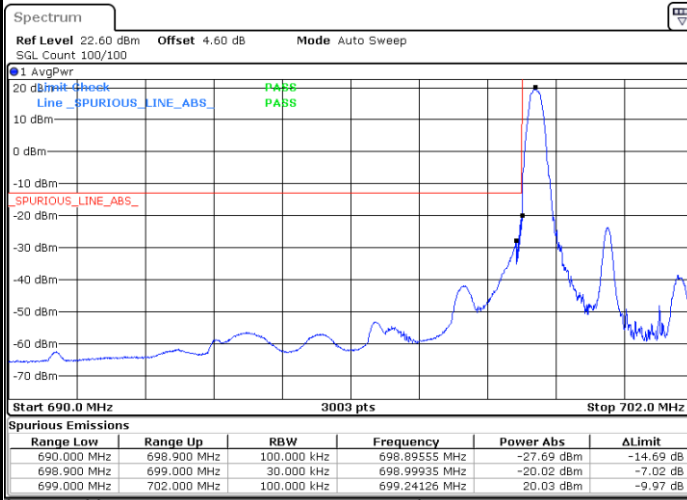


Date: 25 AUG 2020 23:24:39



LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



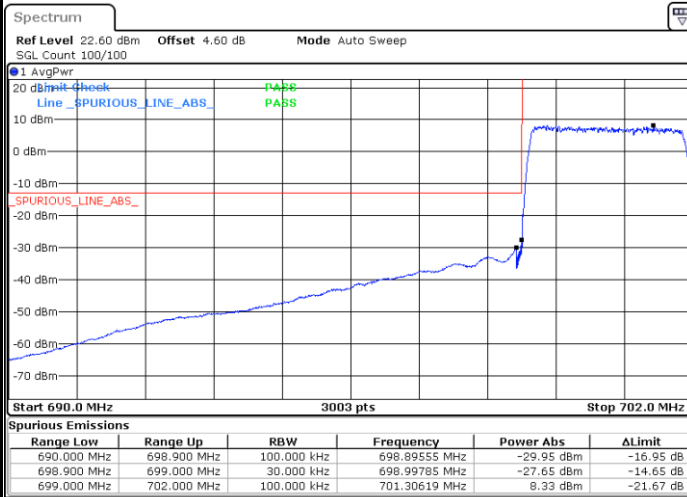
Date: 25 AUG 2020 23:19:02

Highest Band Edge / 1 RB



Date: 25 AUG 2020 23:26:54

Lowest Band Edge / Full RB



Date: 25 AUG 2020 23:22:24

Highest Band Edge / Full RB

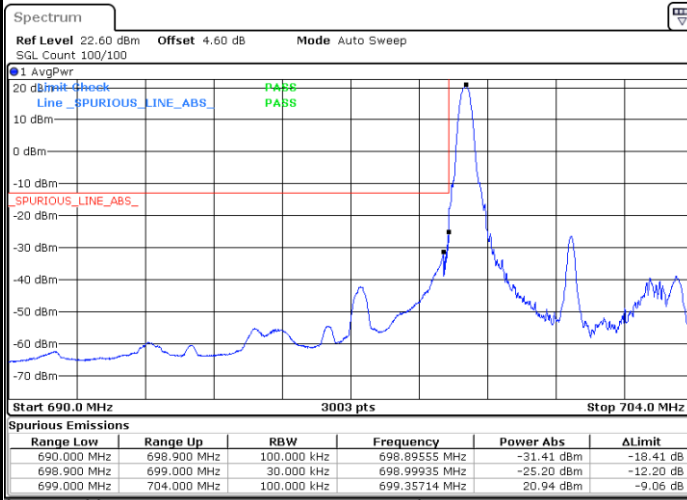


Date: 25 AUG 2020 23:23:31



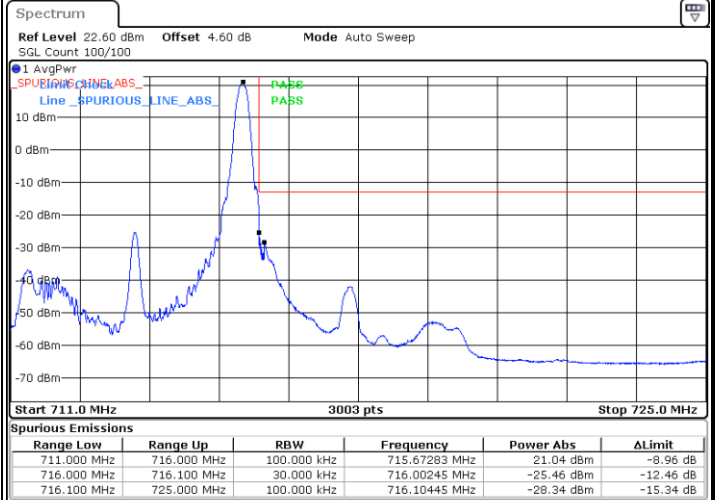
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



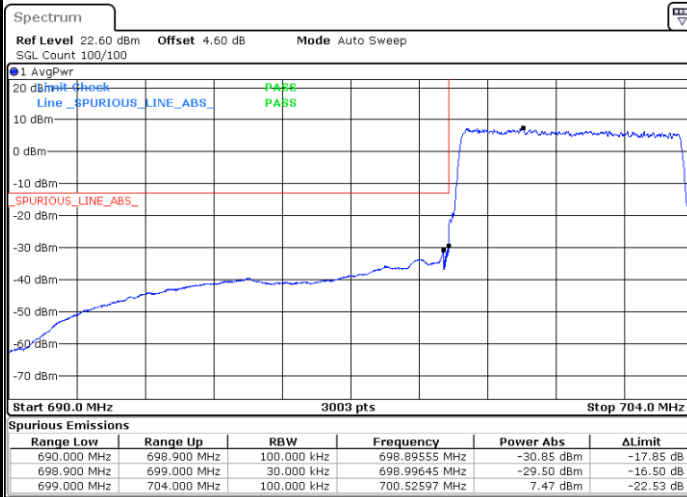
Date: 25 AUG 2020 23:41:57

Highest Band Edge / 1 RB



Date: 25 AUG 2020 23:47:34

Lowest Band Edge / Full RB



Date: 25 AUG 2020 23:43:04

Highest Band Edge / Full RB

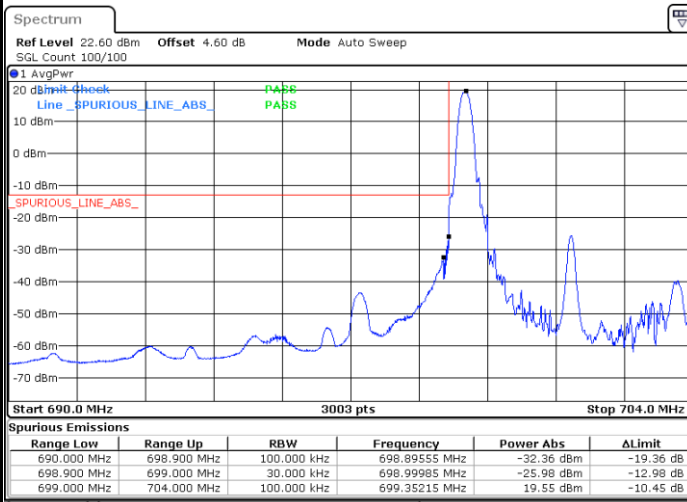


Date: 25 AUG 2020 23:46:26



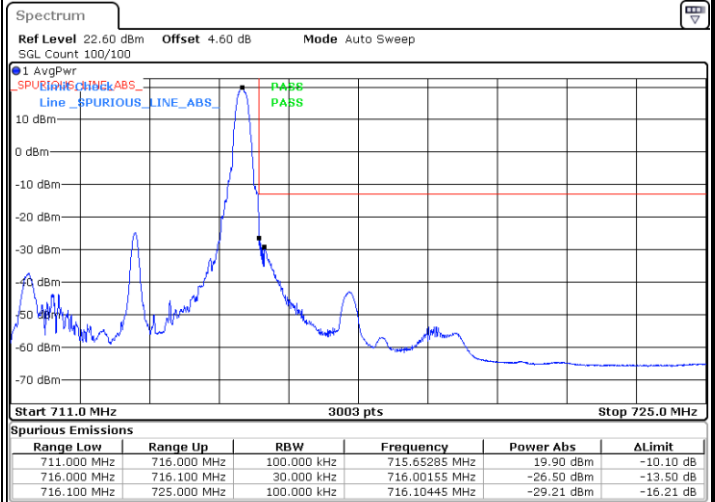
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



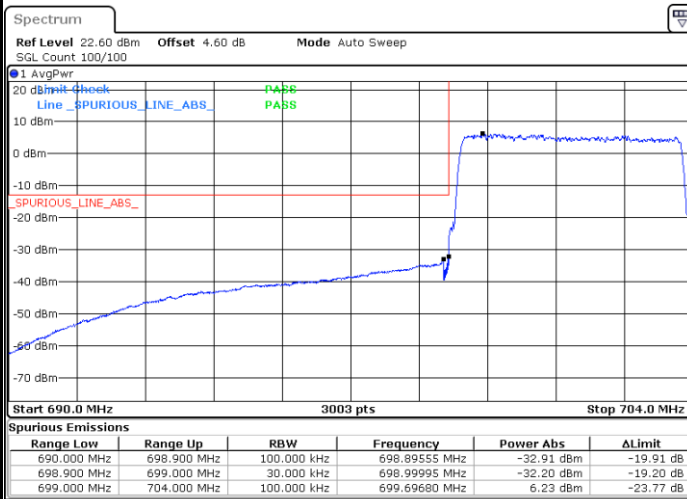
Date: 25 AUG 2020 23:40:49

Highest Band Edge / 1 RB



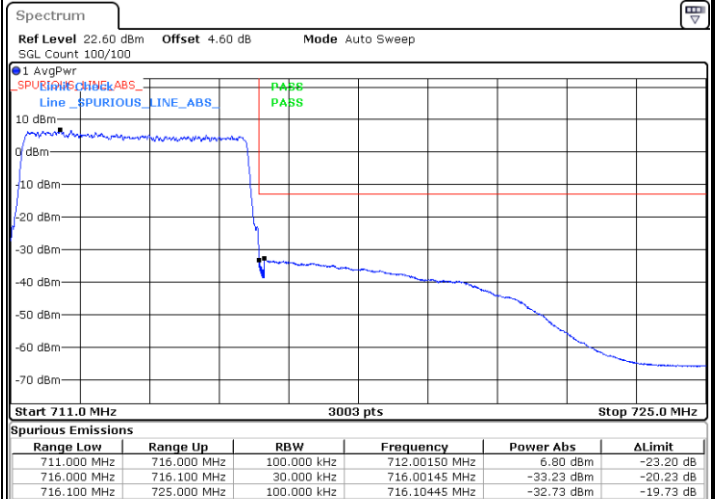
Date: 25 AUG 2020 23:48:41

Lowest Band Edge / Full RB



Date: 25 AUG 2020 23:44:11

Highest Band Edge / Full RB

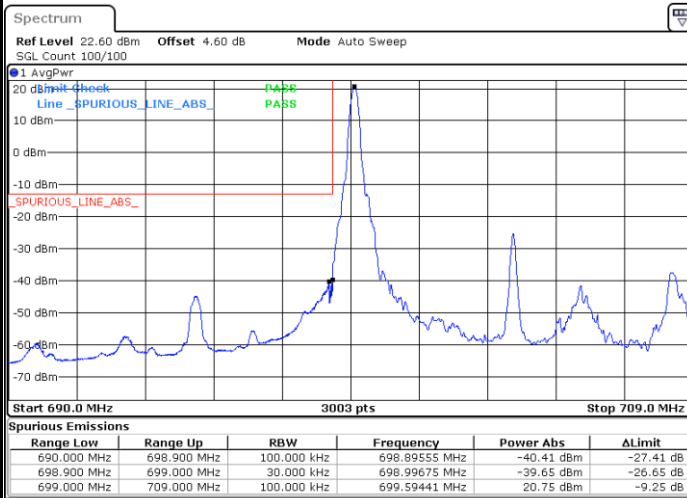


Date: 25 AUG 2020 23:45:19



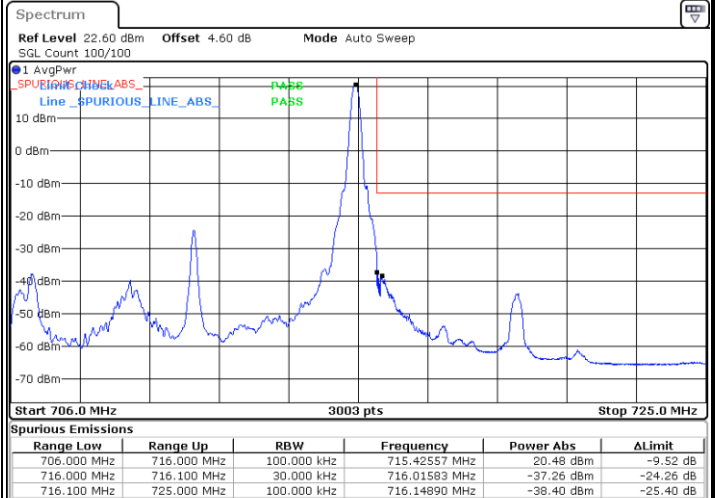
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



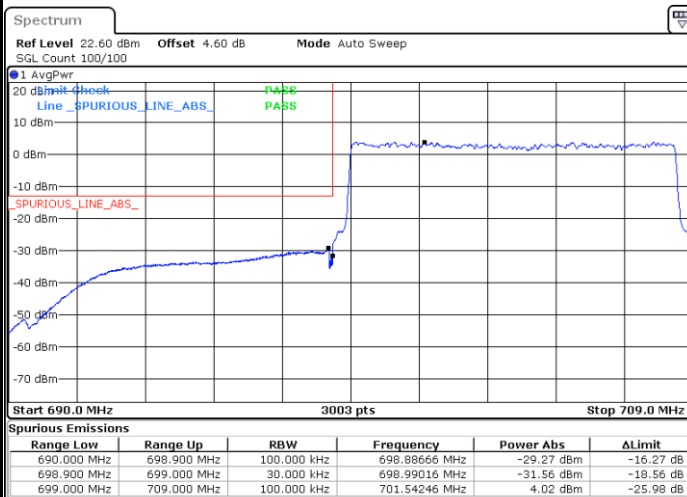
Date: 26 AUG 2020 00:00:21

Highest Band Edge / 1 RB



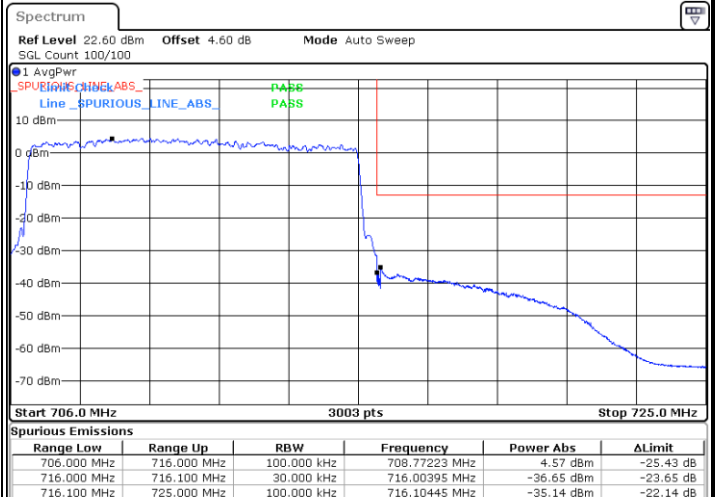
Date: 26 AUG 2020 00:05:58

Lowest Band Edge / Full RB



Date: 26 AUG 2020 00:01:29

Highest Band Edge / Full RB

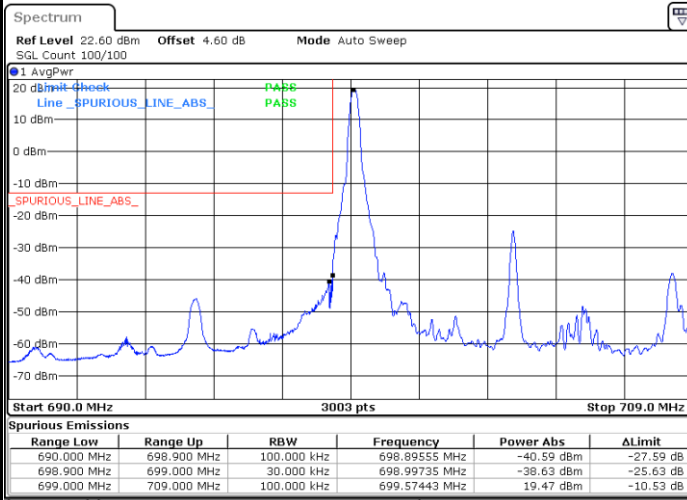


Date: 26 AUG 2020 00:04:51



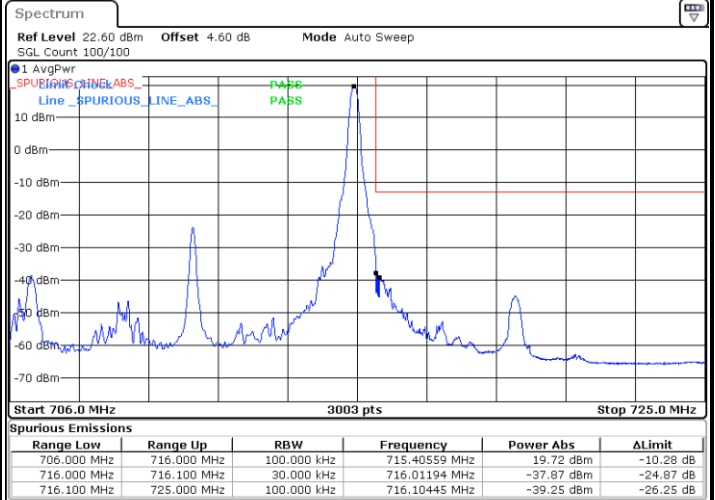
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



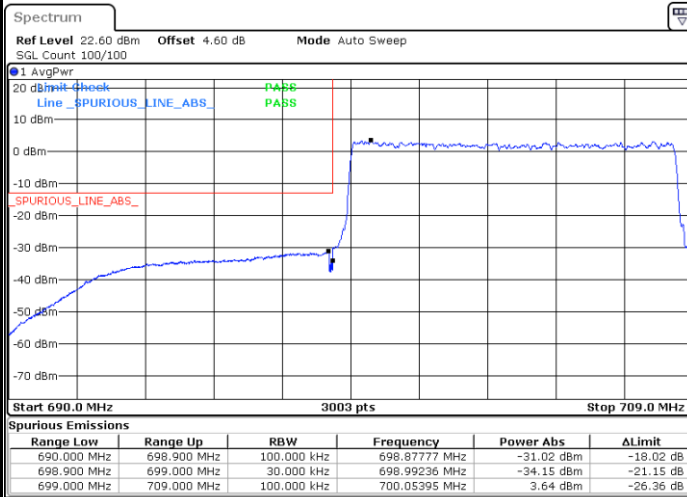
Date: 25 AUG 2020 23:59:14

Highest Band Edge / 1 RB



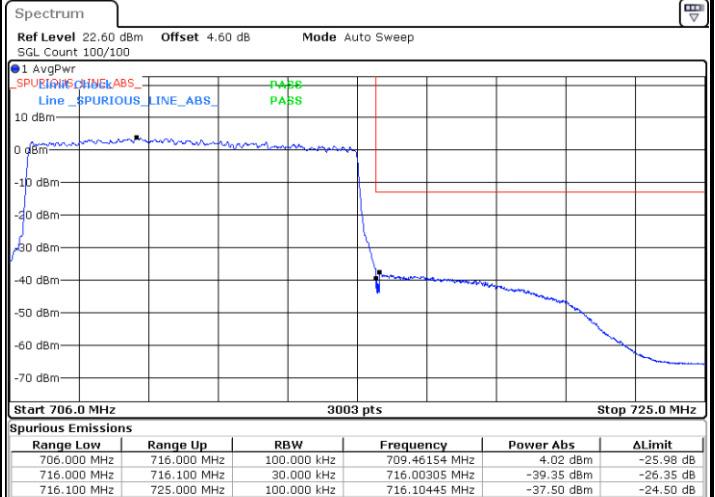
Date: 26 AUG 2020 00:07:06

Lowest Band Edge / Full RB



Date: 26 AUG 2020 00:02:36

Highest Band Edge / Full RB

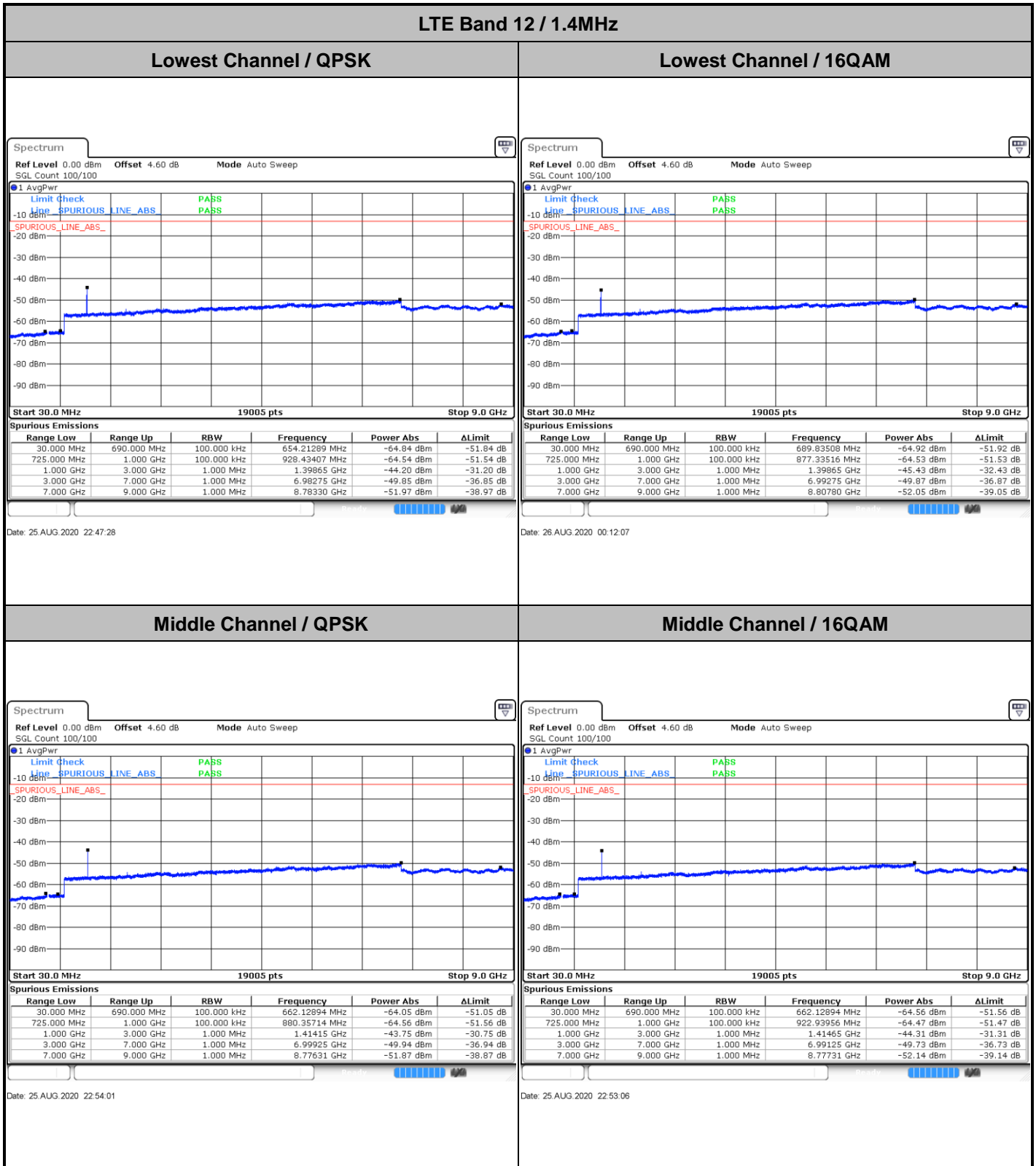


Date: 26 AUG 2020 00:03:43





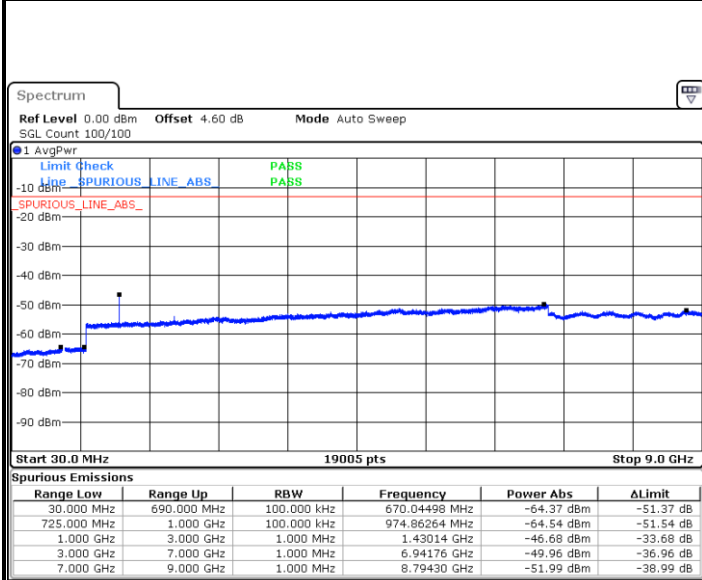
# Conducted Spurious Emission





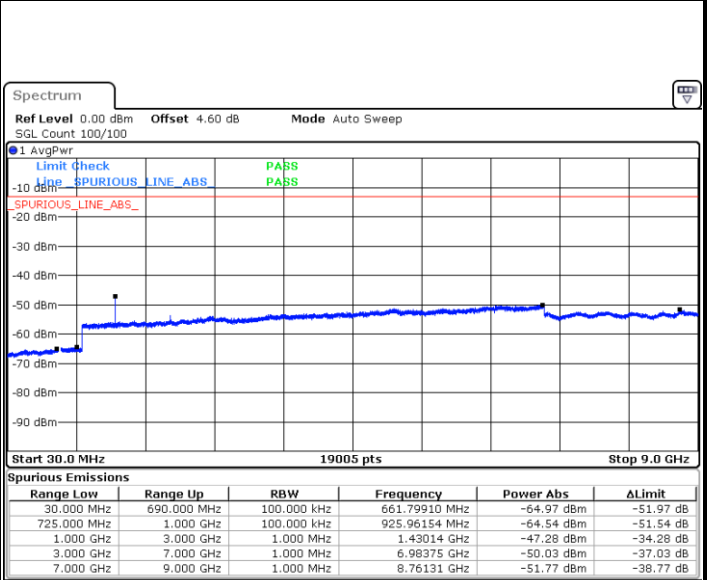
LTE Band 12 / 1.4MHz

Highest Channel / QPSK



Date: 25 AUG 2020 22:54:55

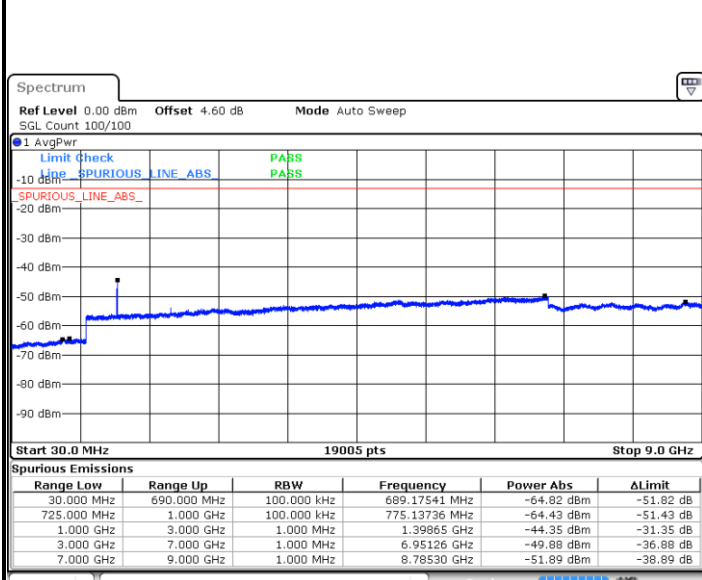
Highest Channel / 16QAM



Date: 25 AUG 2020 22:55:49

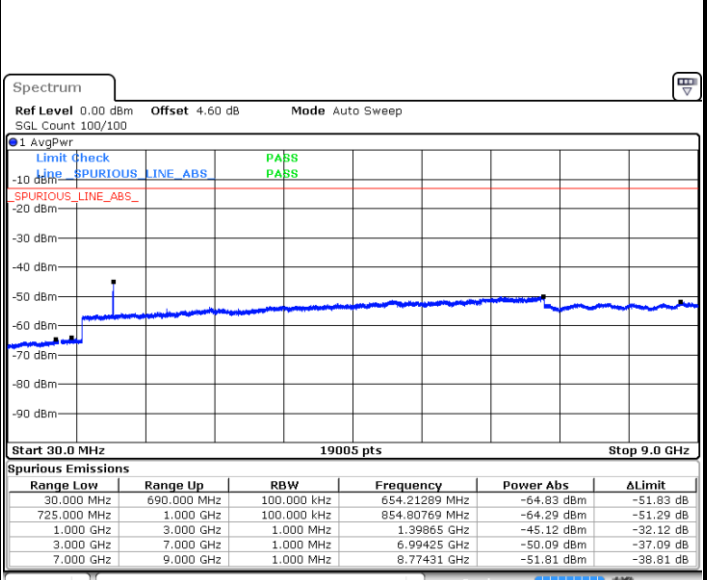
LTE Band 12 / 3MHz

Lowest Channel / QPSK



Date: 25 AUG 2020 23:13:22

Lowest Channel / 16QAM



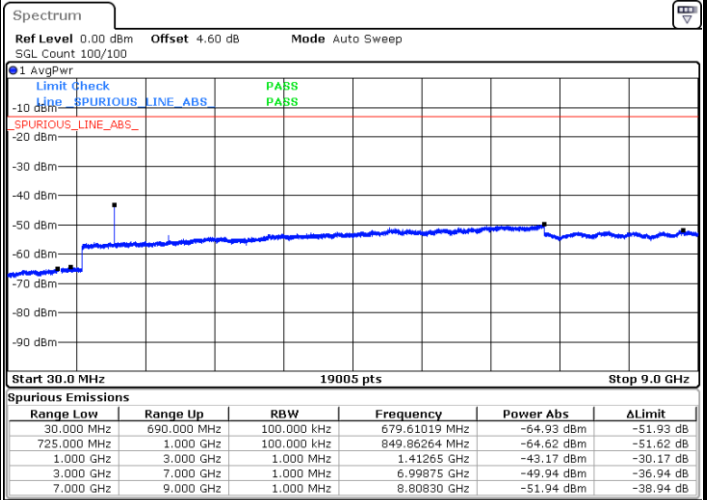
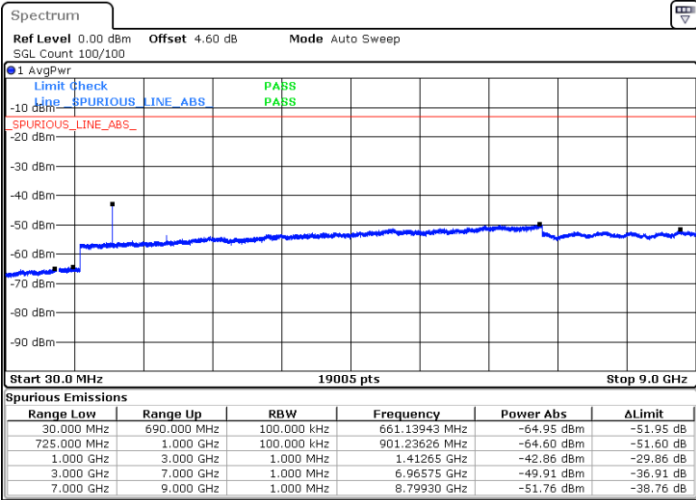
Date: 25 AUG 2020 23:14:16



LTE Band 12 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

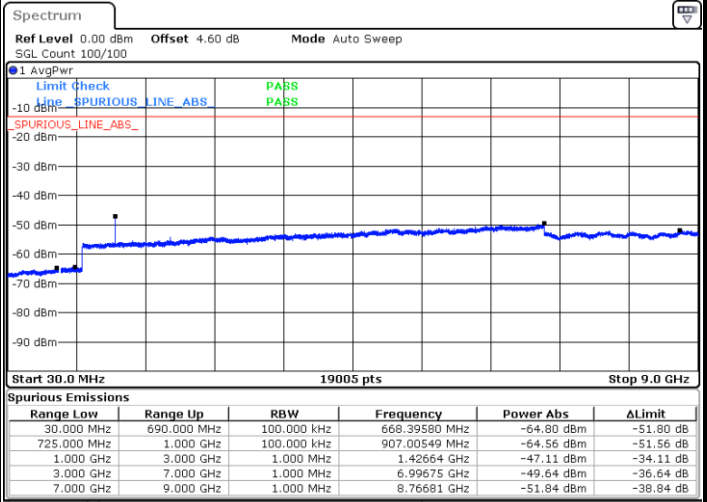
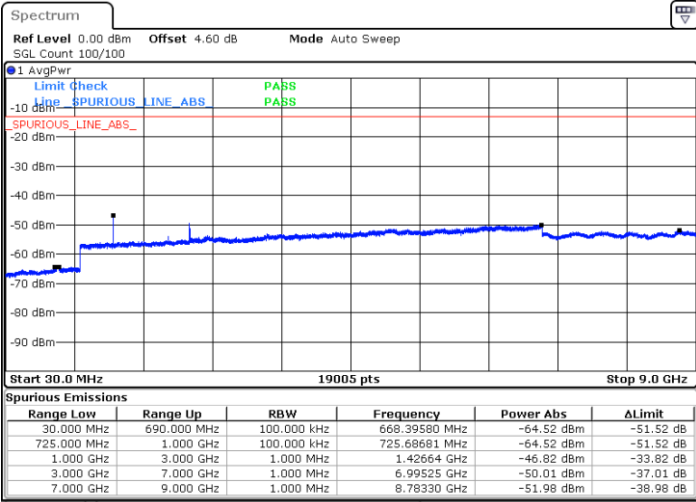


Date: 25 AUG.2020 23:16:05

Date: 25 AUG.2020 23:15:11

Highest Channel / QPSK

Highest Channel / 16QAM



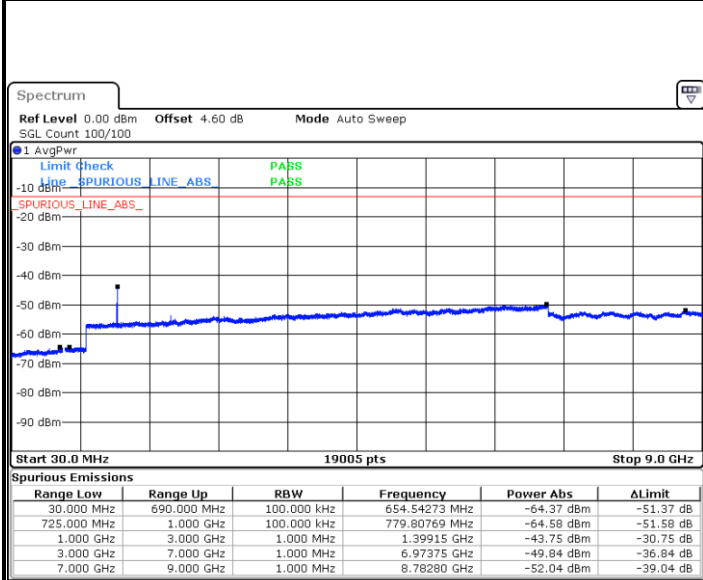
Date: 25 AUG.2020 23:16:59

Date: 25 AUG.2020 23:15:53



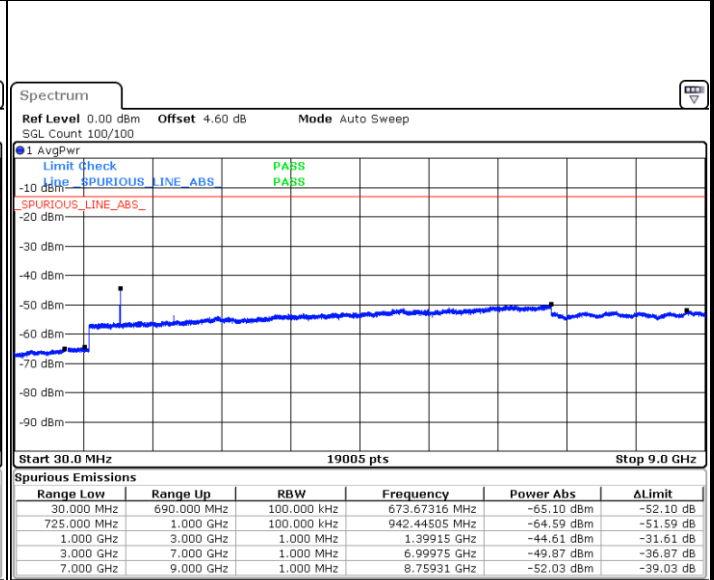
LTE Band 12 / 5MHz

Lowest Channel / QPSK



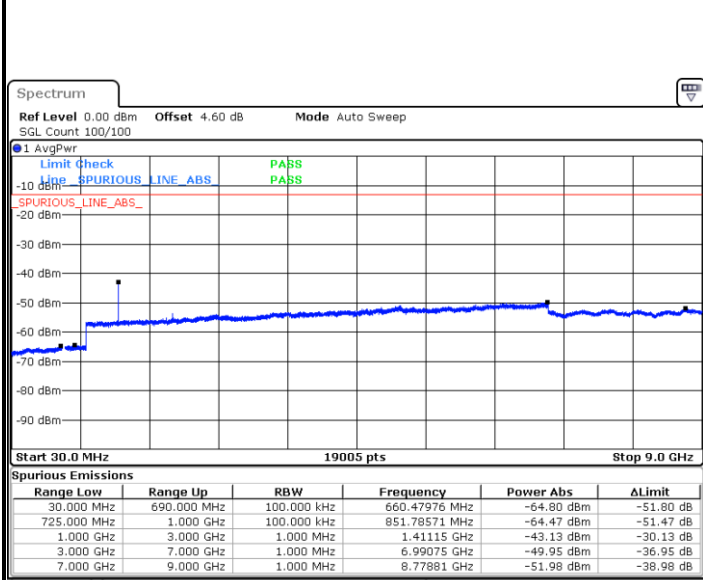
Date: 25 AUG 2020 23:35:09

Lowest Channel / 16QAM



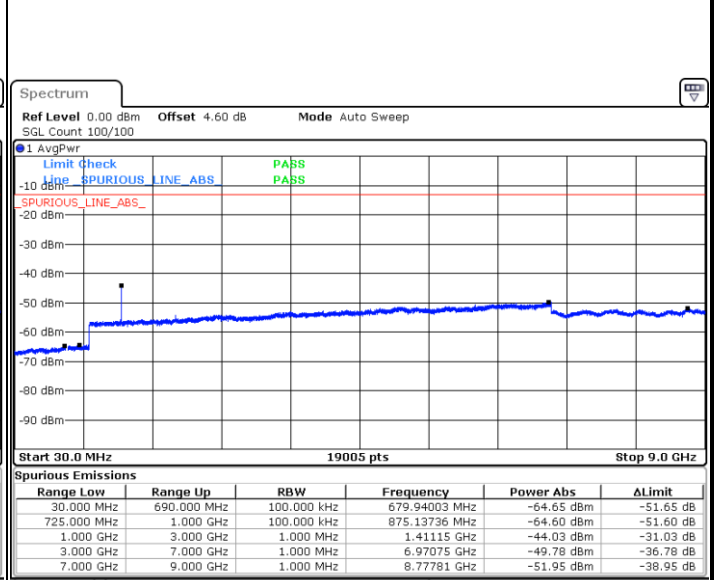
Date: 25 AUG 2020 23:36:04

Middle Channel / QPSK



Date: 25 AUG 2020 23:37:52

Middle Channel / 16QAM



Date: 25 AUG 2020 23:36:58