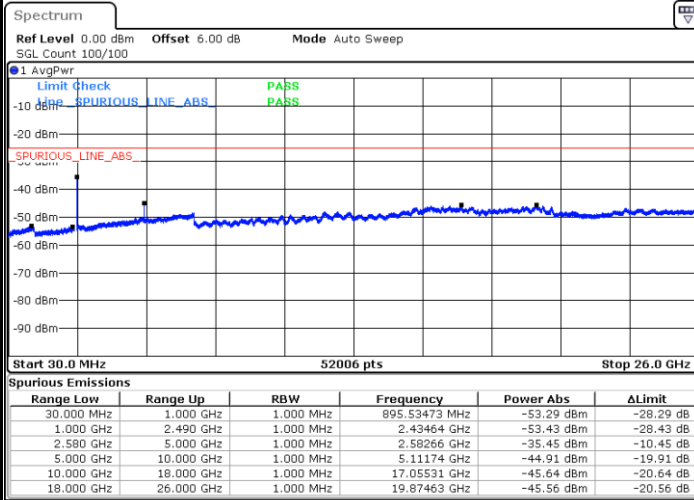




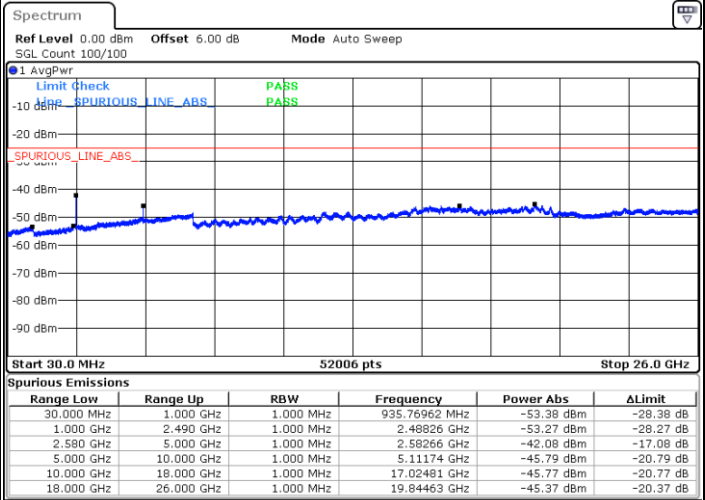
LTE Band 7 / 15MHz

Highest Channel / QPSK



Date: 9.NOV.2019 10:10:46

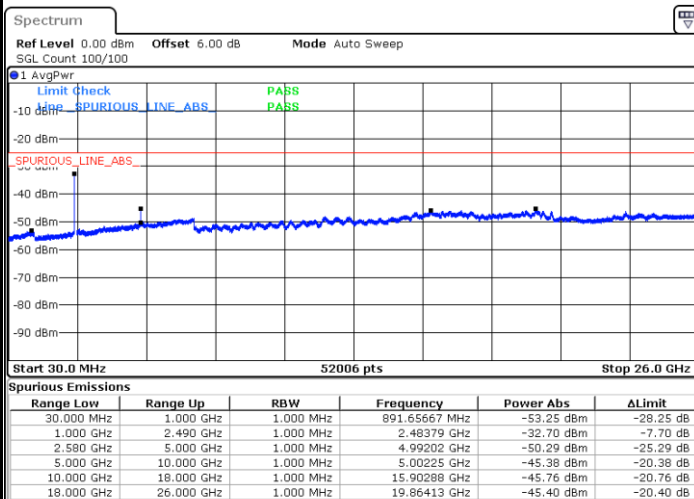
Highest Channel / 16QAM



Date: 9.NOV.2019 10:11:40

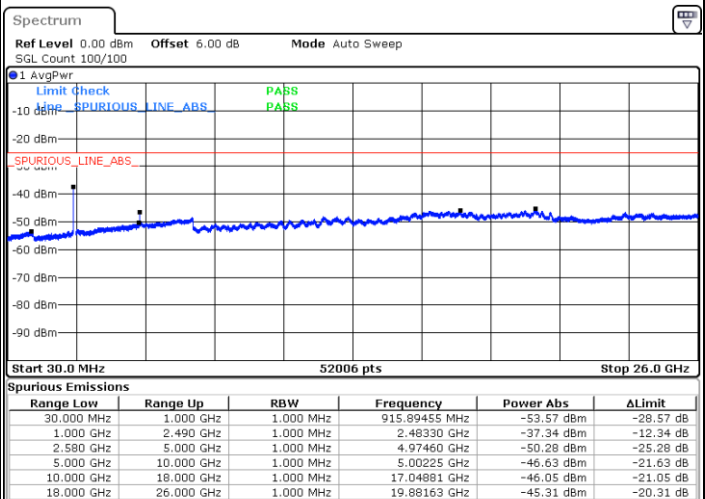
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 11.NOV.2019 23:42:56

Lowest Channel / 16QAM

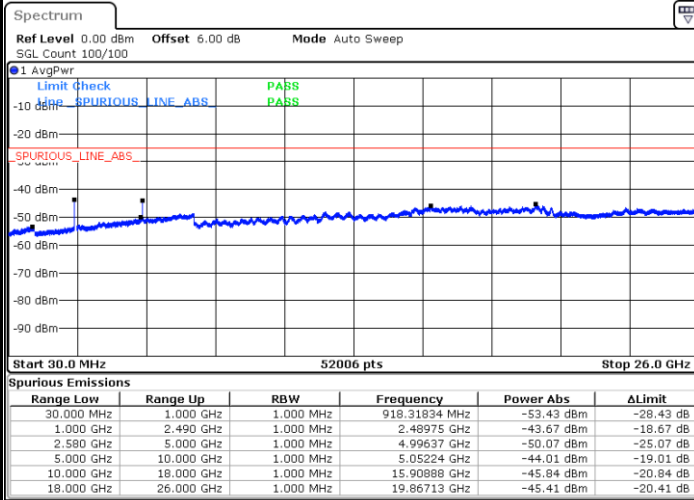


Date: 11.NOV.2019 23:45:00



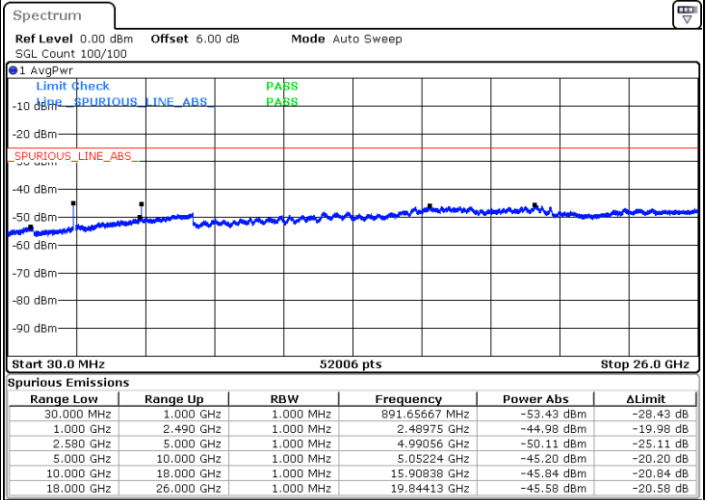
LTE Band 7 / 20MHz

Middle Channel / QPSK



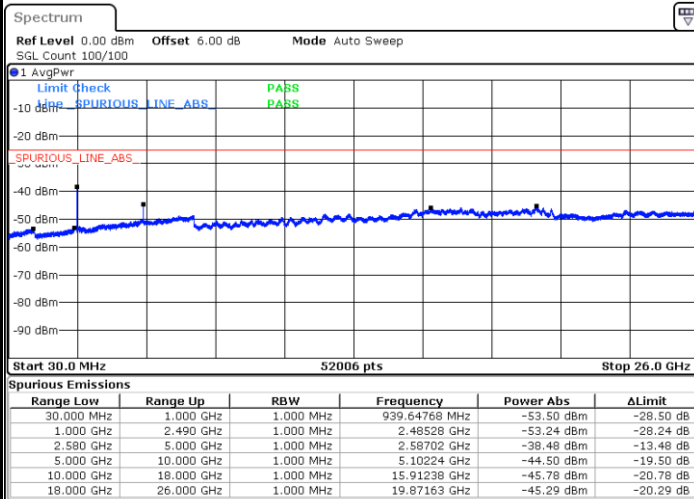
Date: 9 NOV. 2019 10:26:19

Middle Channel / 16QAM



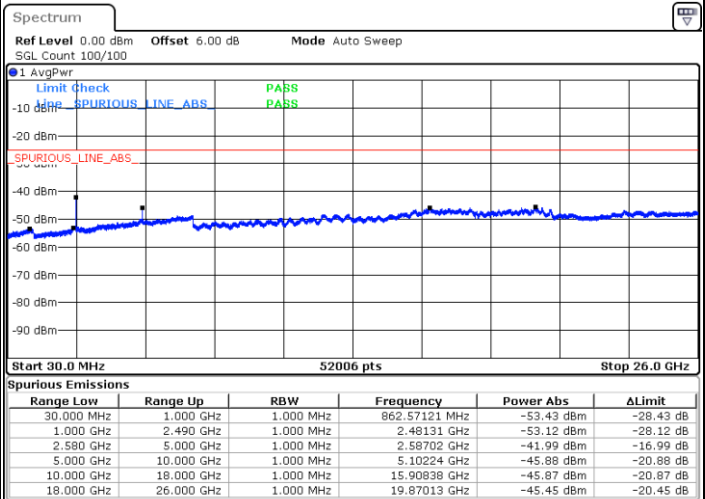
Date: 9 NOV. 2019 10:25:26

Highest Channel / QPSK



Date: 9 NOV. 2019 10:27:13

Highest Channel / 16QAM



Date: 9 NOV. 2019 10:28:07

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	0.0033	PASS
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0019	
0	Normal Voltage	0.0042	
-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:

3. Normal Voltage =5 V. ; Battery End Point (BEP) =4.75V. ; Maximum Voltage =5.25 V.
4. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 12

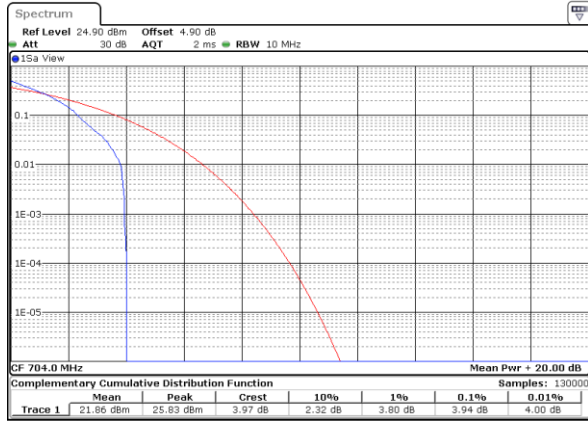
Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.94	4.49	4.70	5.33	PASS
Middle CH	3.36	4.61	4.41	5.42	
Highest CH	3.71	4.29	4.43	5.36	



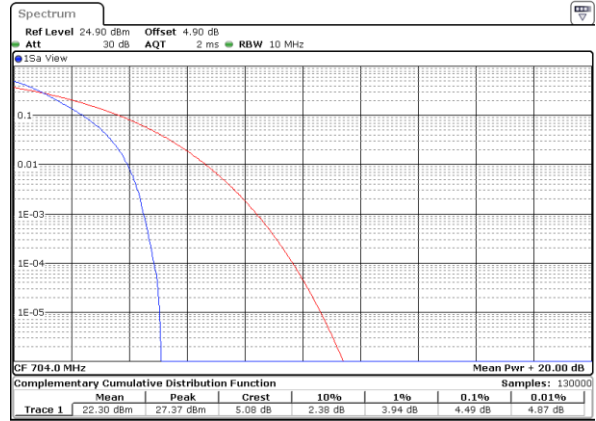
LTE Band 12 / 10MHz / QPSK

Lowest Channel / 1RB



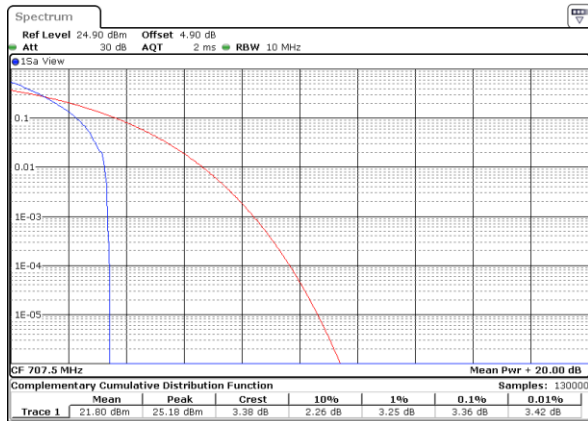
Date: 9 NOV 2019 13:07:33

Lowest Channel / Full RB



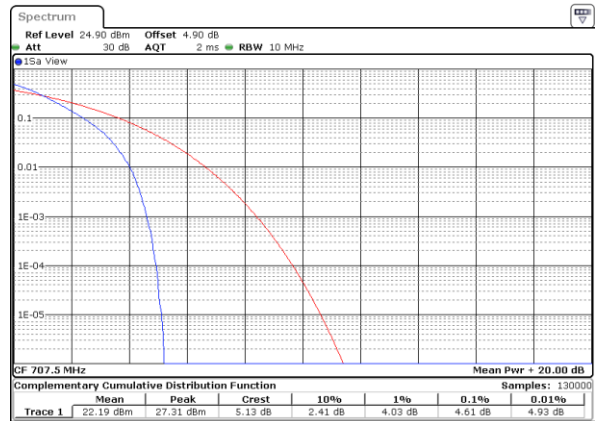
Date: 9 NOV 2019 13:07:42

Middle Channel / 1RB



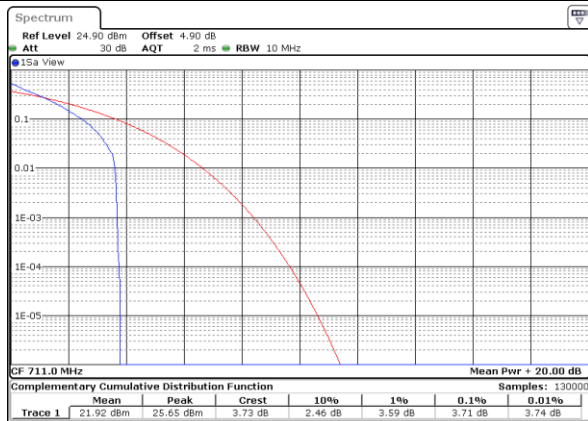
Date: 9 NOV 2019 13:08:20

Middle Channel / Full RB



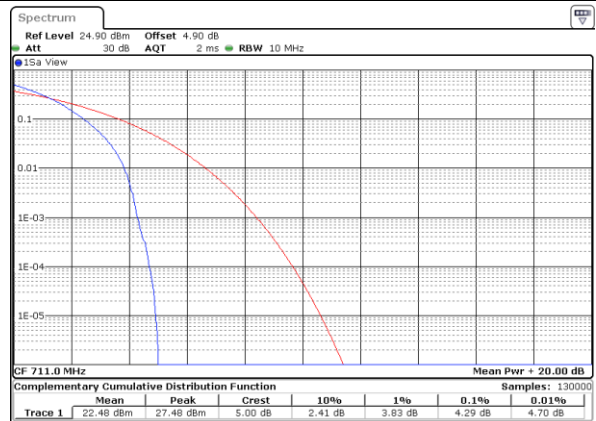
Date: 9 NOV 2019 13:08:10

Highest Channel / 1RB

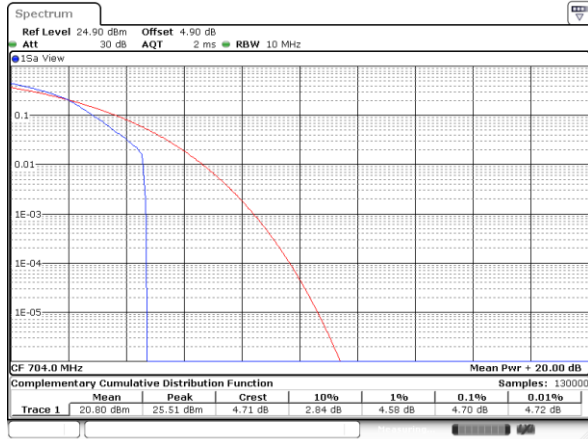


Date: 9 NOV 2019 13:08:48

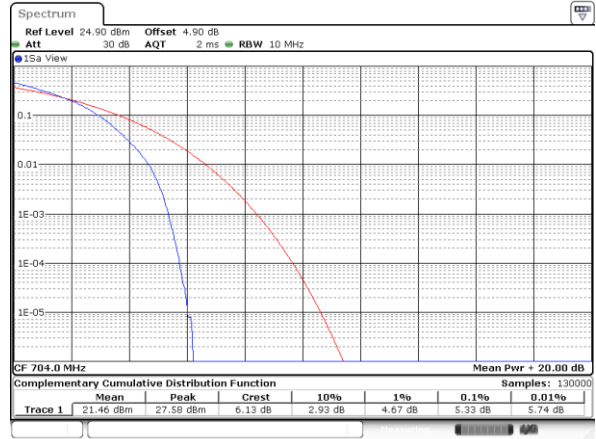
Highest Channel / Full RB



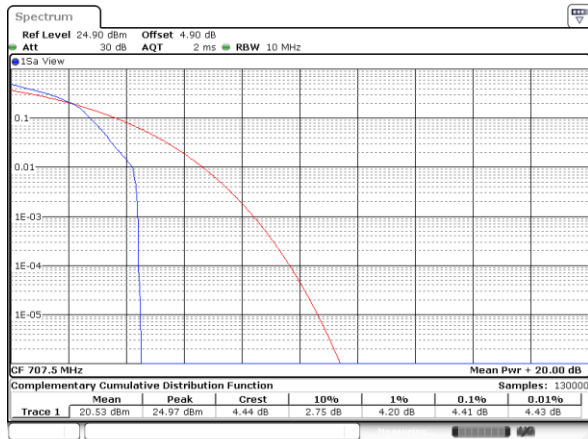
Date: 9 NOV 2019 13:08:57

LTE Band 12 / 10MHz / 16QAM
Lowest Channel / 1RB


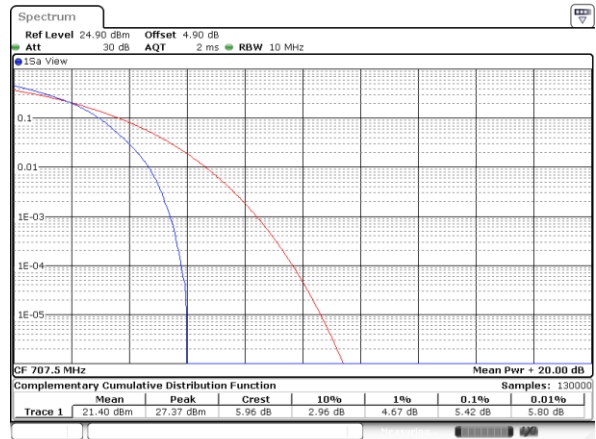
Date: 9 NOV 2019 13:07:23

Lowest Channel / Full RB


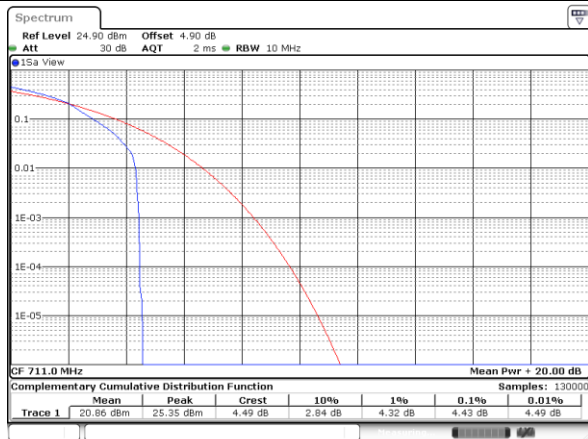
Date: 9 NOV 2019 13:07:51

Middle Channel / 1RB


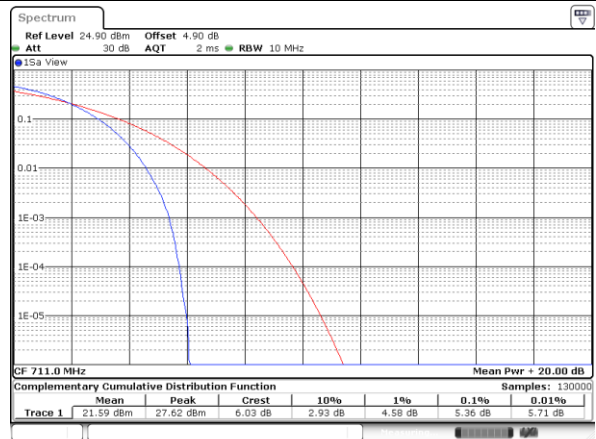
Date: 9 NOV 2019 13:08:29

Middle Channel / Full RB


Date: 9 NOV 2019 13:08:01

Highest Channel / 1RB


Date: 9 NOV 2019 13:08:38

Highest Channel / Full RB


Date: 9 NOV 2019 13:09:06

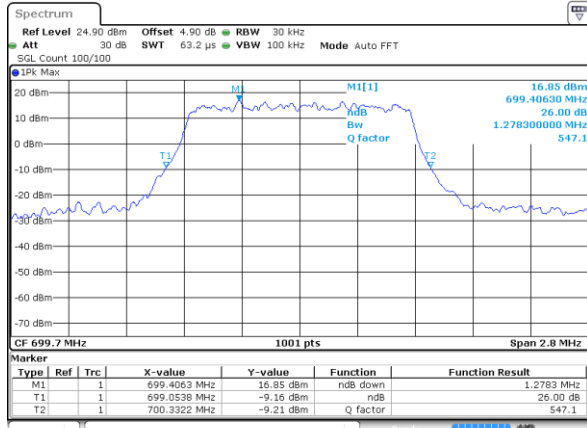
**26dB Bandwidth**

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	1.278	1.287	3.021	3.021	4.835	4.885	9.87	9.69	-	-	-	-
Middle CH	1.278	1.309	3.027	3.009	4.905	4.885	9.75	9.69	-	-	-	-
Highest CH	1.276	1.242	3.021	3.039	4.945	4.895	9.73	9.77	-	-	-	-



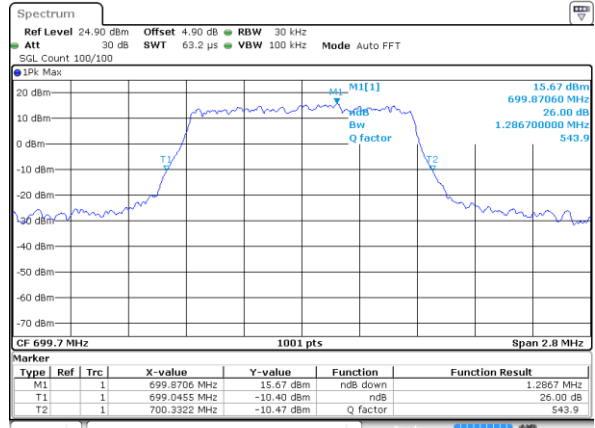
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



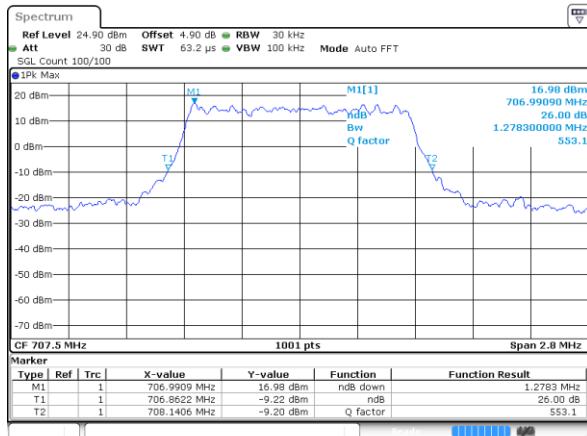
Date: 9 NOV 2019 11:57:12

Lowest Channel / 1.4MHz / 16QAM



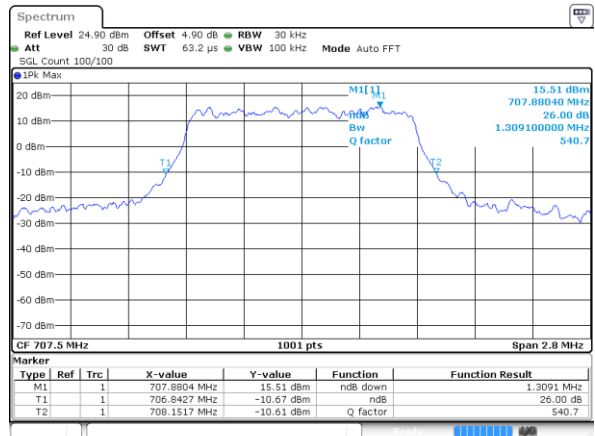
Date: 9 NOV 2019 11:57:02

Middle Channel / 1.4MHz / QPSK



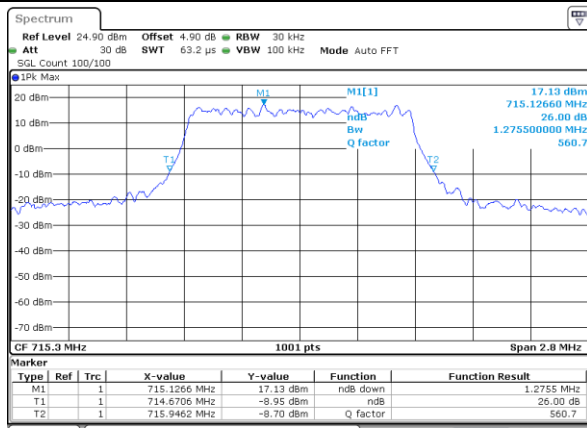
Date: 9 NOV 2019 11:56:42

Middle Channel / 1.4MHz / 16QAM



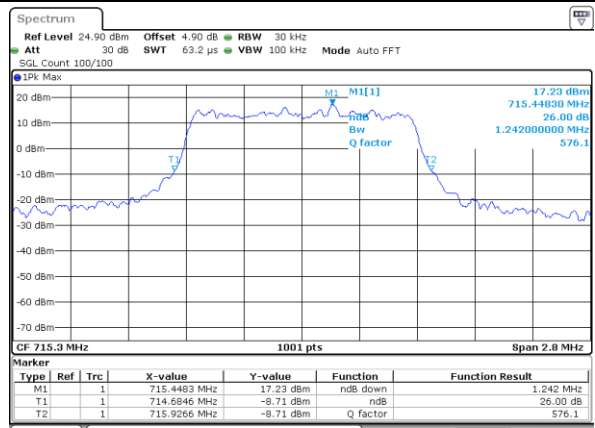
Date: 9 NOV 2019 11:56:52

Highest Channel / 1.4MHz / QPSK



Date: 9 NOV 2019 11:56:32

Highest Channel / 1.4MHz / 16QAM

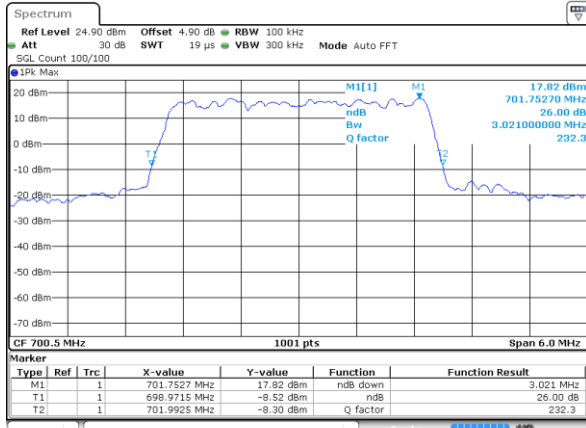


Date: 9 NOV 2019 11:56:22



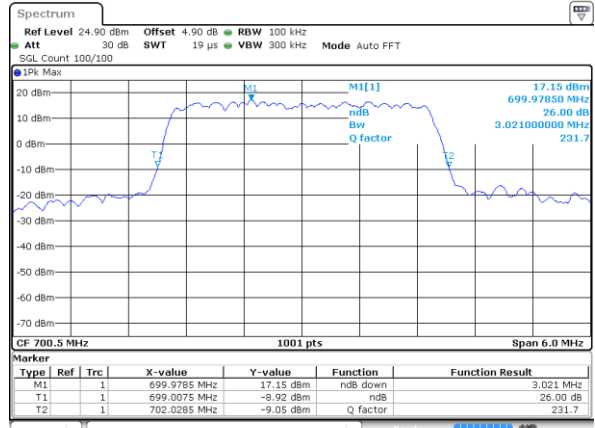
LTE Band 12

Lowest Channel / 3MHz / QPSK



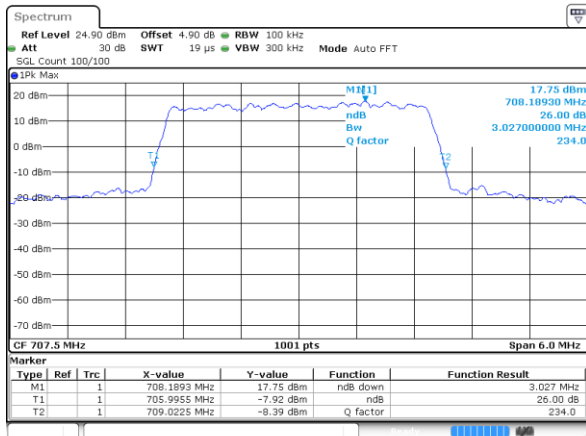
Date: 9 NOV 2019 12:19:05

Lowest Channel / 3MHz / 16QAM



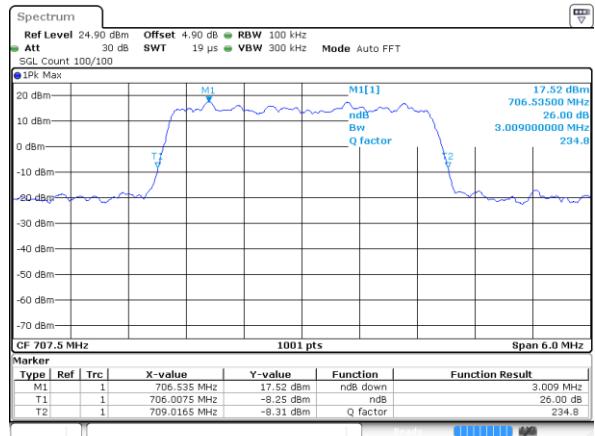
Date: 9 NOV 2019 12:18:55

Middle Channel / 3MHz / QPSK



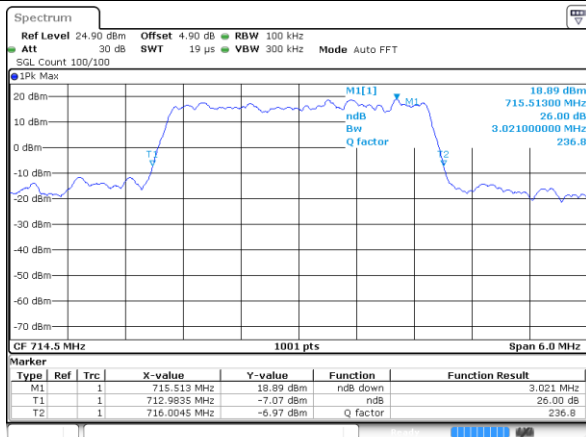
Date: 9 NOV 2019 12:18:35

Middle Channel / 3MHz / 16QAM



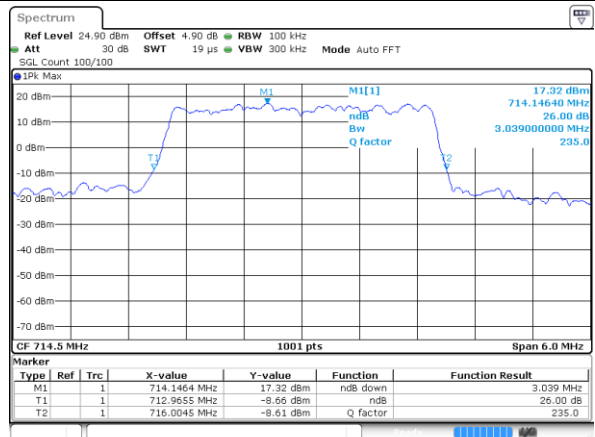
Date: 9 NOV 2019 12:18:45

Highest Channel / 3MHz / QPSK



Date: 9 NOV 2019 12:18:25

Highest Channel / 3MHz / 16QAM

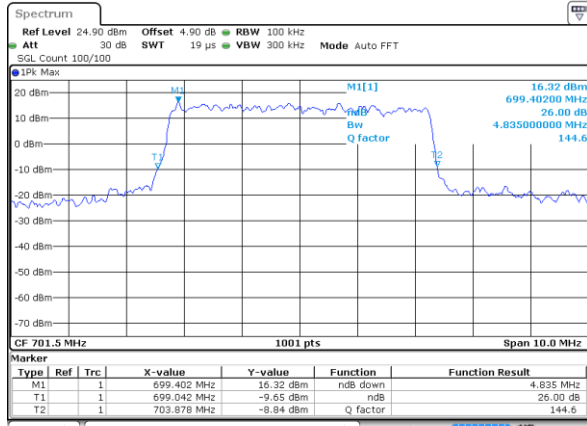


Date: 9 NOV 2019 12:18:15



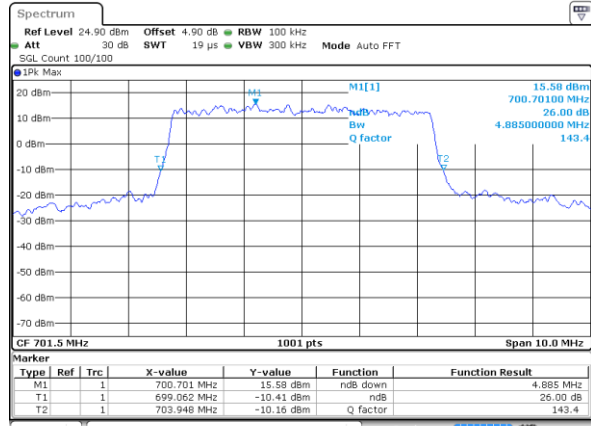
LTE Band 12

Lowest Channel / 5MHz / QPSK



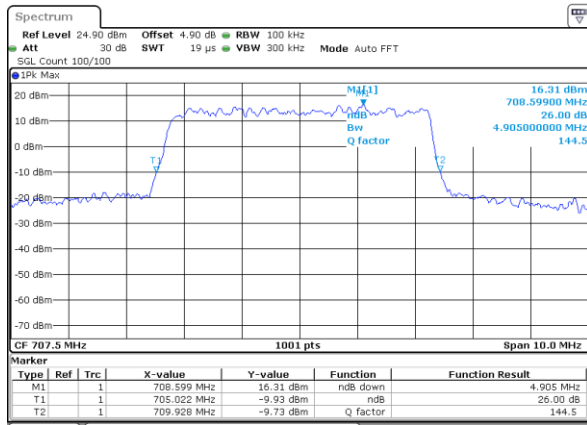
Date: 9 NOV 2019 12:35:28

Lowest Channel / 5MHz / 16QAM



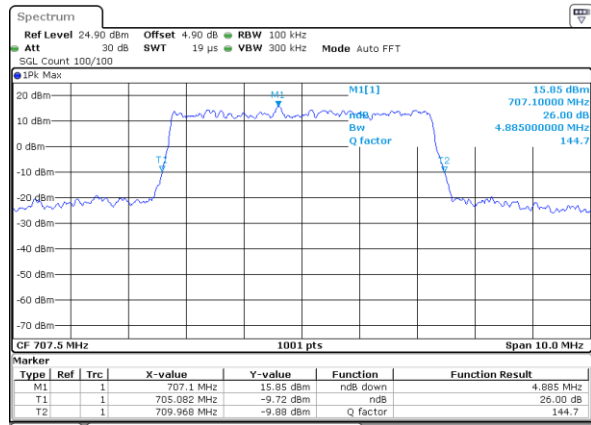
Date: 9 NOV 2019 12:35:18

Middle Channel / 5MHz / QPSK



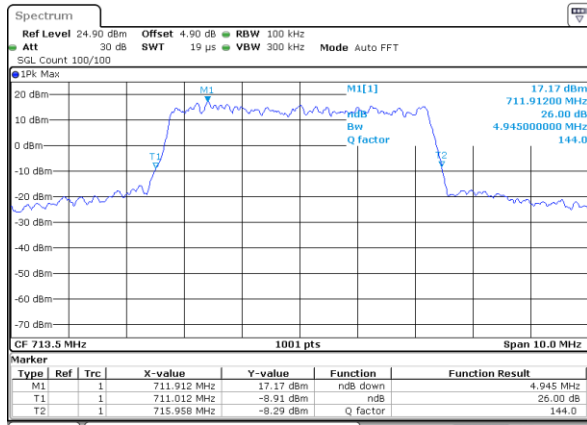
Date: 9 NOV 2019 12:34:58

Middle Channel / 5MHz / 16QAM



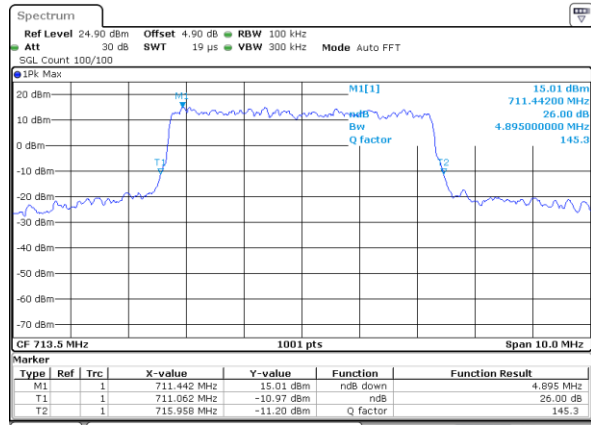
Date: 9 NOV 2019 12:35:08

Highest Channel / 5MHz / QPSK



Date: 9 NOV 2019 12:34:48

Highest Channel / 5MHz / 16QAM

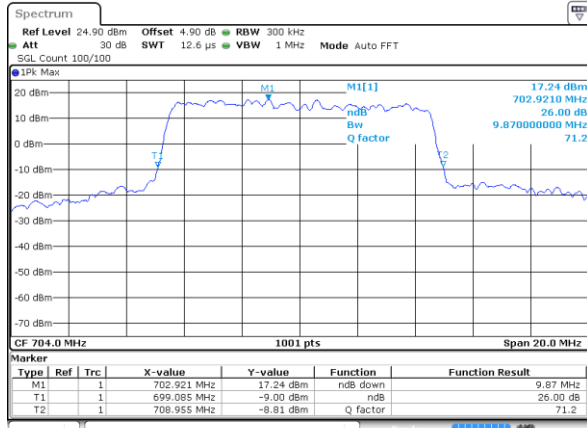


Date: 9 NOV 2019 12:34:38

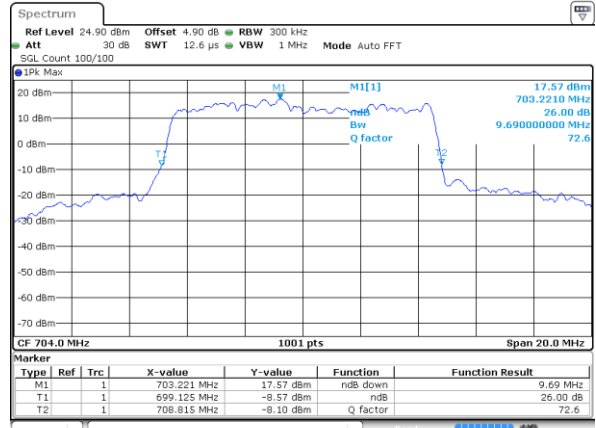


LTE Band 12

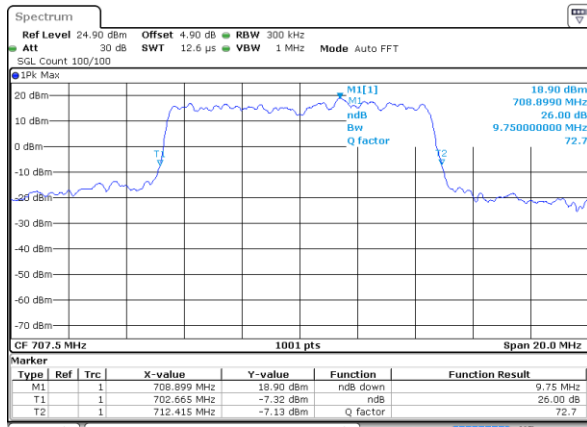
Lowest Channel / 10MHz / QPSK



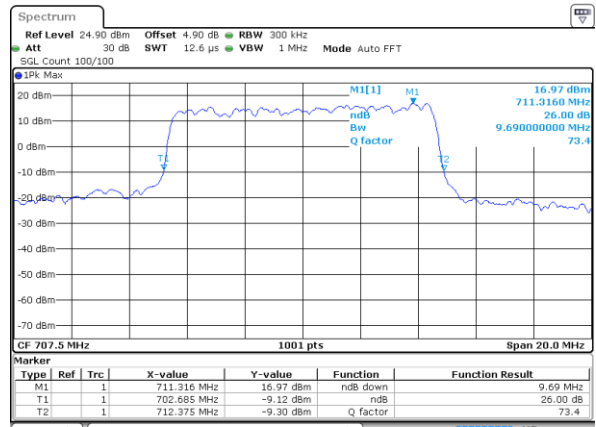
Lowest Channel / 10MHz / 16QAM



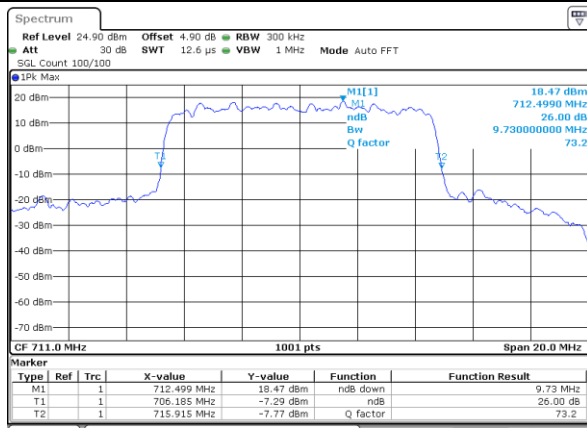
Middle Channel / 10MHz / QPSK



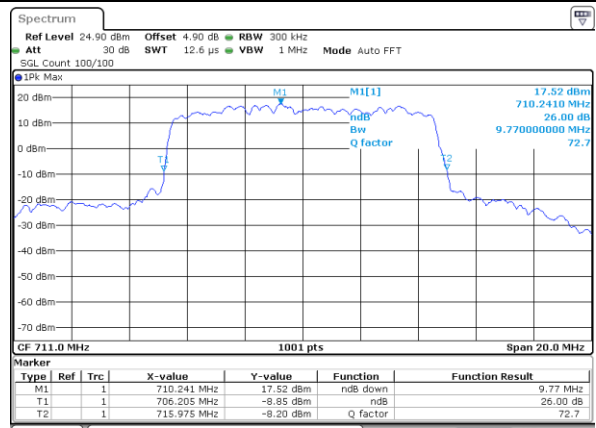
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK

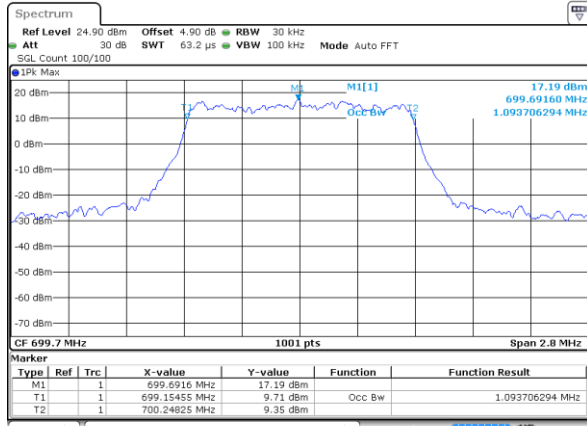
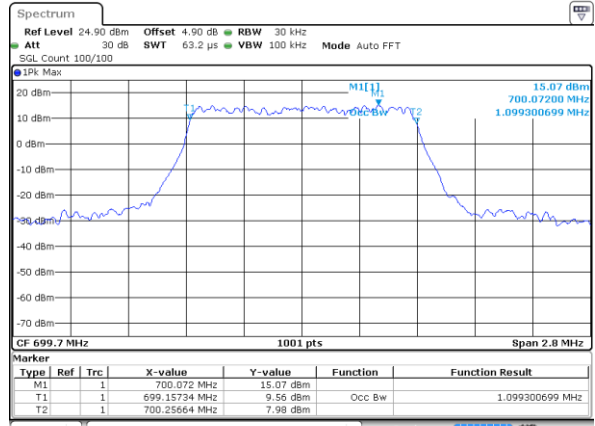
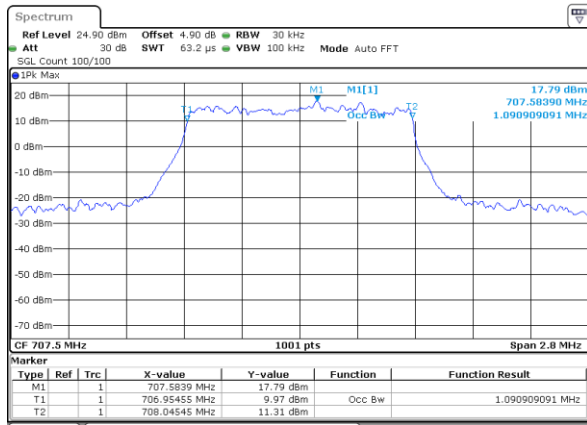
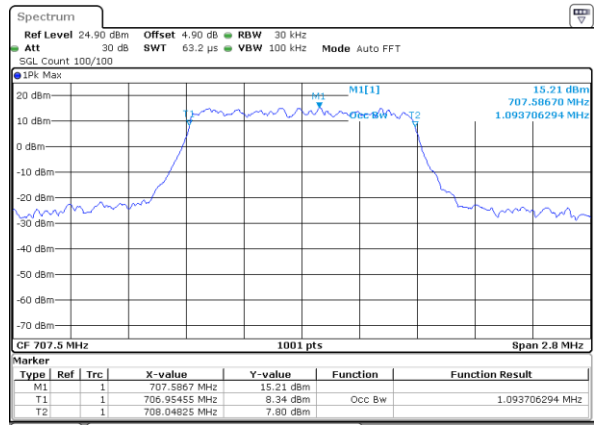
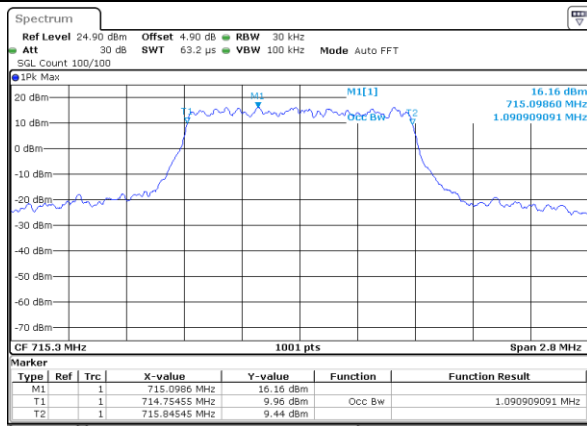
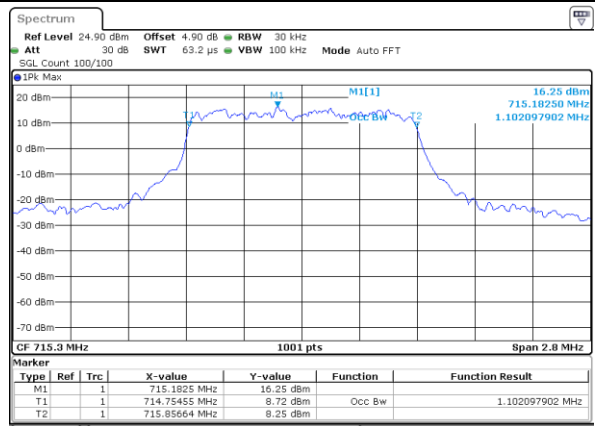


Highest Channel / 10MHz / 16QAM



**Occupied Bandwidth**

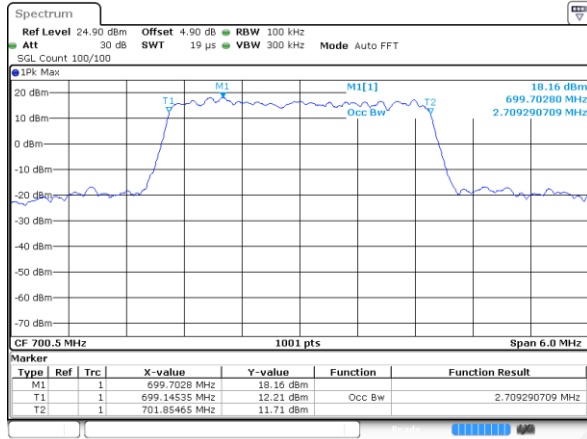
Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.10	2.71	2.73	4.48	4.48	9.07	9.01	-	-	-	-
Middle CH	1.09	1.09	2.73	2.70	4.51	4.51	9.05	9.03	-	-	-	-
Highest CH	1.09	1.10	2.72	2.73	4.47	4.50	9.07	8.99	-	-	-	-

**LTE Band 12****Lowest Channel / 1.4MHz / QPSK****Lowest Channel / 1.4MHz / 16QAM****Middle Channel / 1.4MHz / QPSK****Middle Channel / 1.4MHz / 16QAM****Highest Channel / 1.4MHz / QPSK****Highest Channel / 1.4MHz / 16QAM**

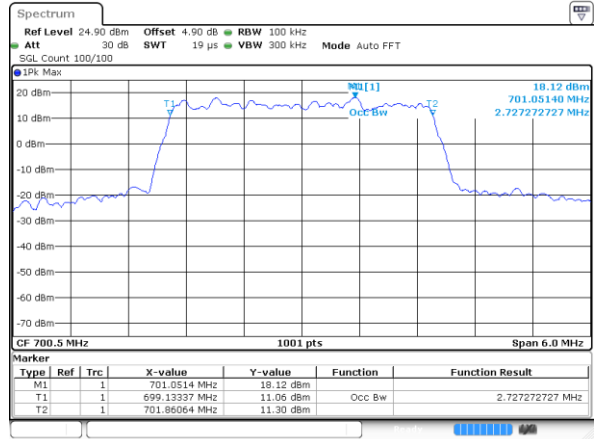


LTE Band 12

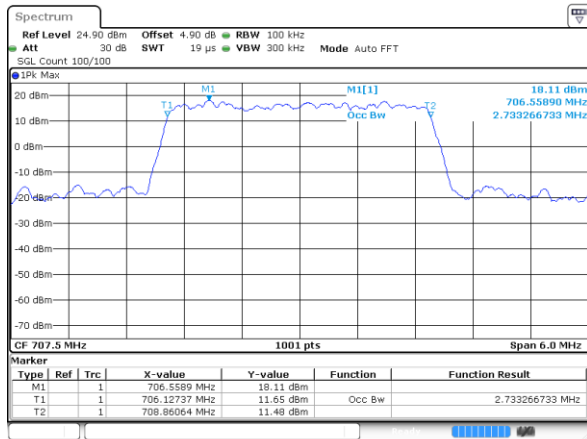
Lowest Channel / 3MHz / QPSK



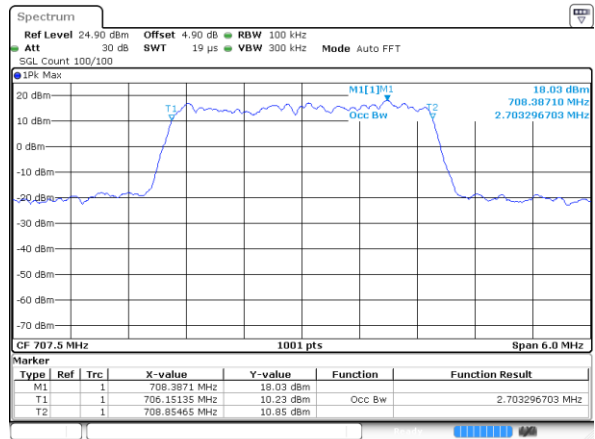
Lowest Channel / 3MHz / 16QAM



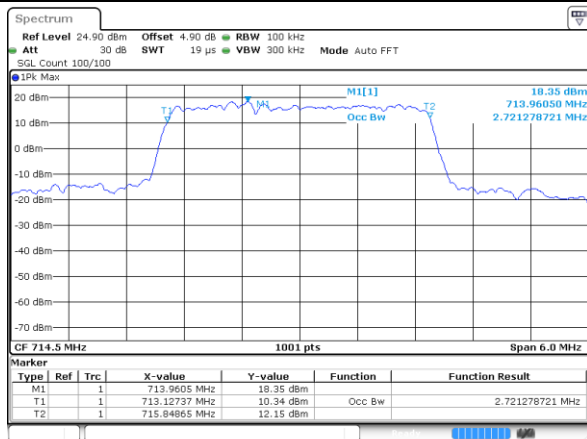
Middle Channel / 3MHz / QPSK



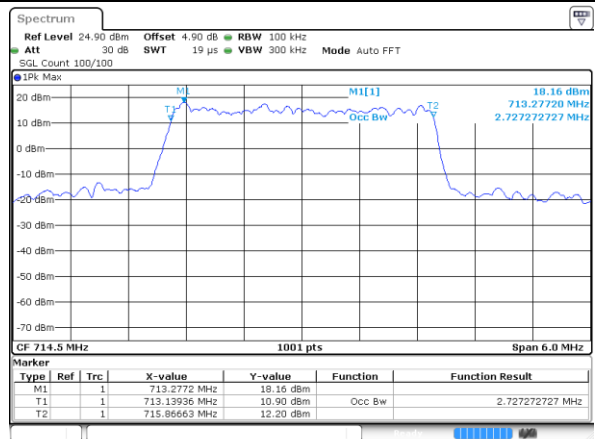
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



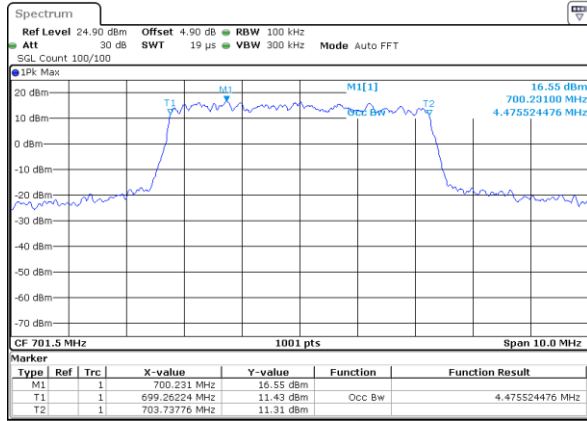
Highest Channel / 3MHz / 16QAM





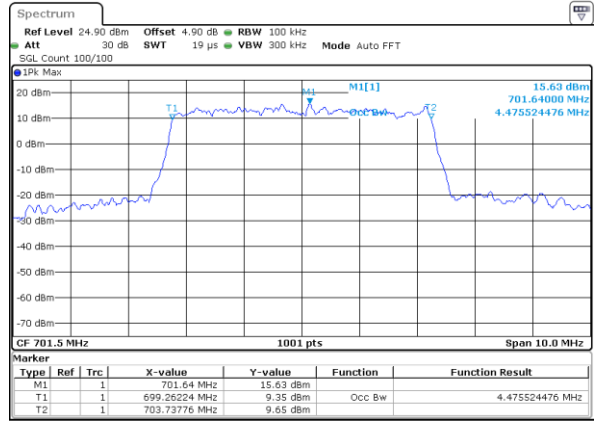
LTE Band 12

Lowest Channel / 5MHz / QPSK



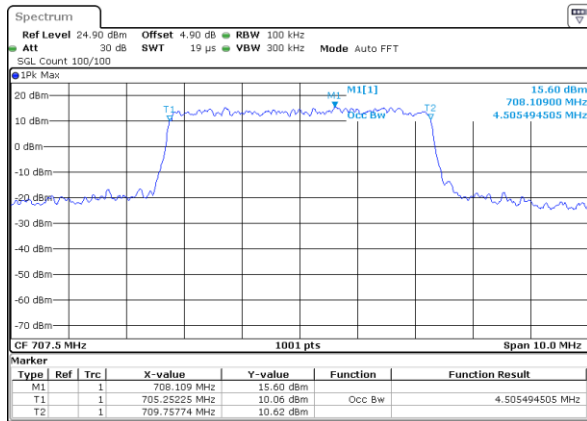
Date: 9 NOV 2019 12:33:39

Lowest Channel / 5MHz / 16QAM



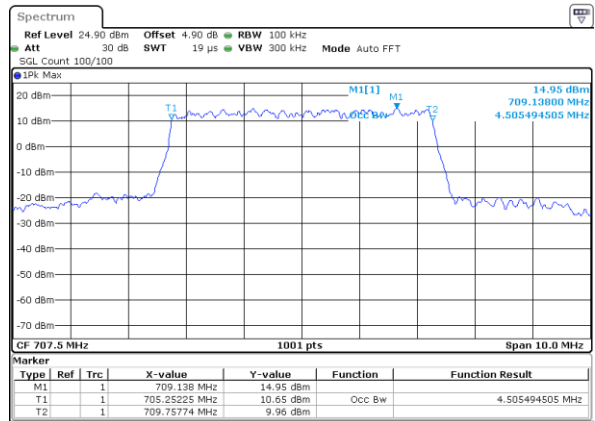
Date: 9 NOV 2019 12:33:49

Middle Channel / 5MHz / QPSK



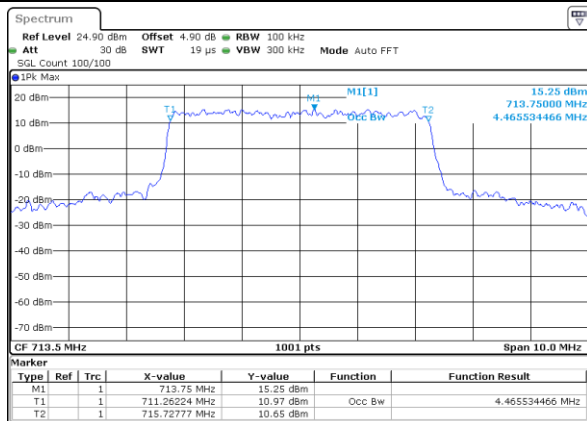
Date: 9 NOV 2019 12:34:08

Middle Channel / 5MHz / 16QAM



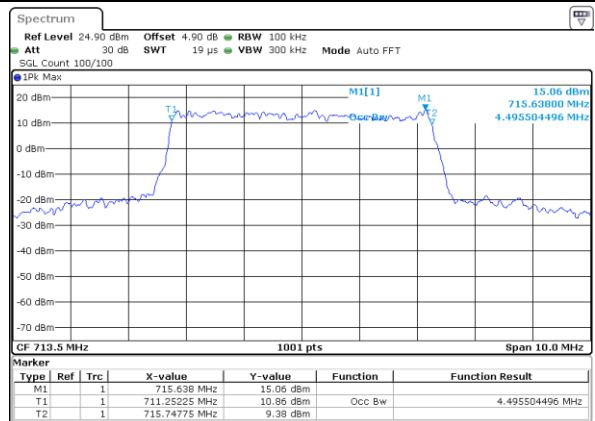
Date: 9 NOV 2019 12:33:58

Highest Channel / 5MHz / QPSK



Date: 9 NOV 2019 12:34:18

Highest Channel / 5MHz / 16QAM

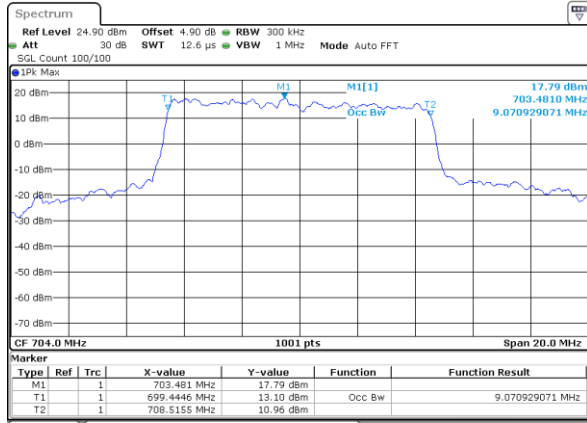


Date: 9 NOV 2019 12:34:28



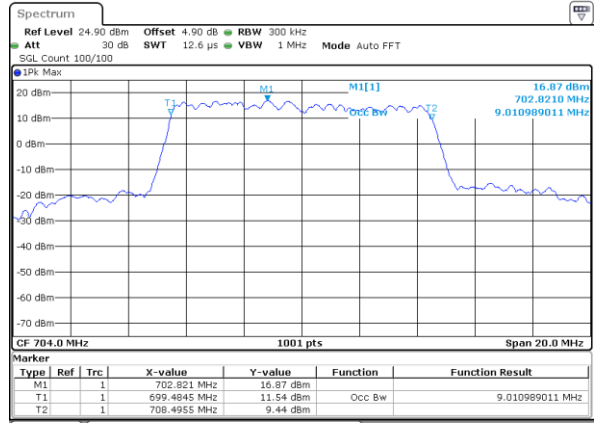
LTE Band 12

Lowest Channel / 10MHz / QPSK



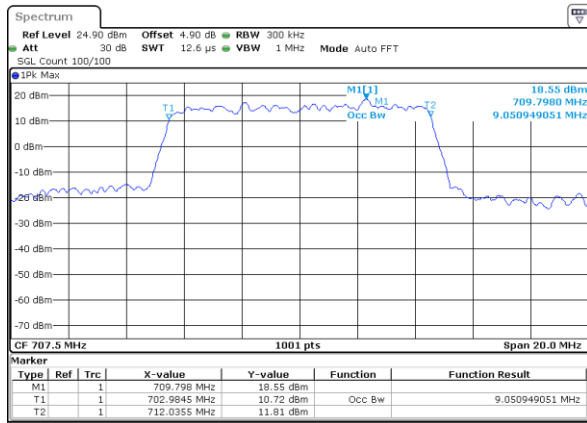
Date: 9 NOV 2019 12:50:02

Lowest Channel / 10MHz / 16QAM



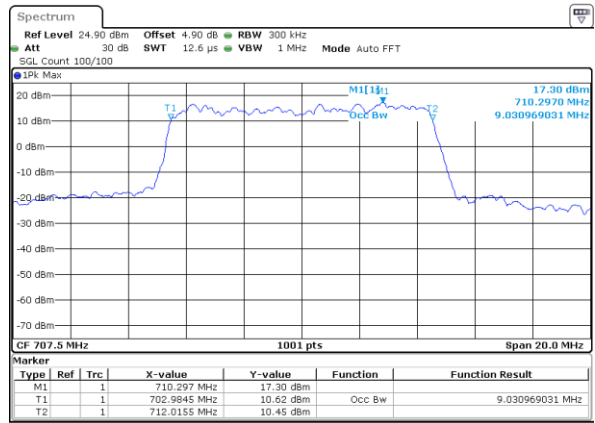
Date: 9 NOV 2019 12:50:12

Middle Channel / 10MHz / QPSK



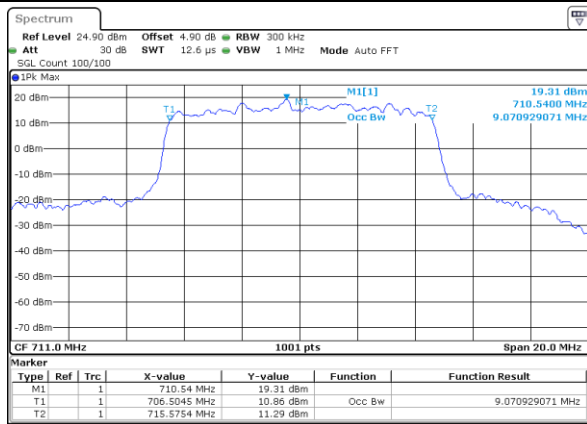
Date: 9 NOV 2019 12:50:32

Middle Channel / 10MHz / 16QAM



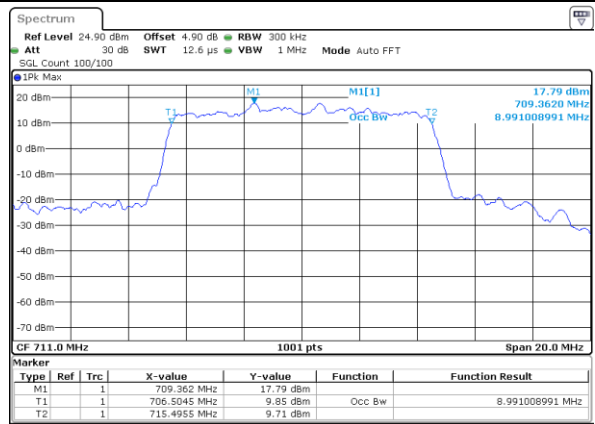
Date: 9 NOV 2019 12:50:22

Highest Channel / 10MHz / QPSK

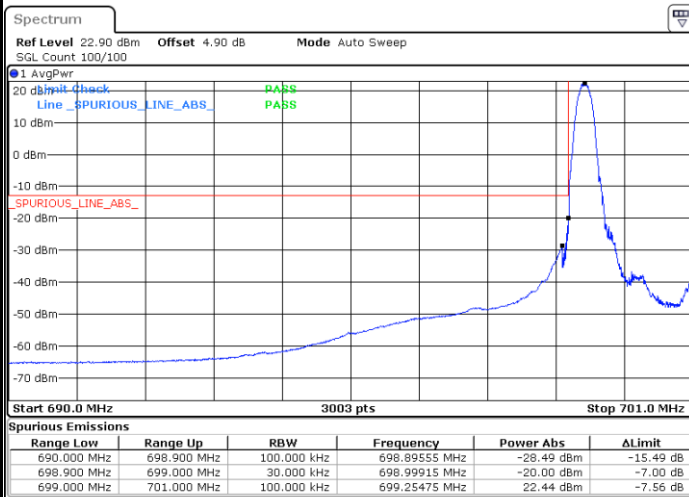
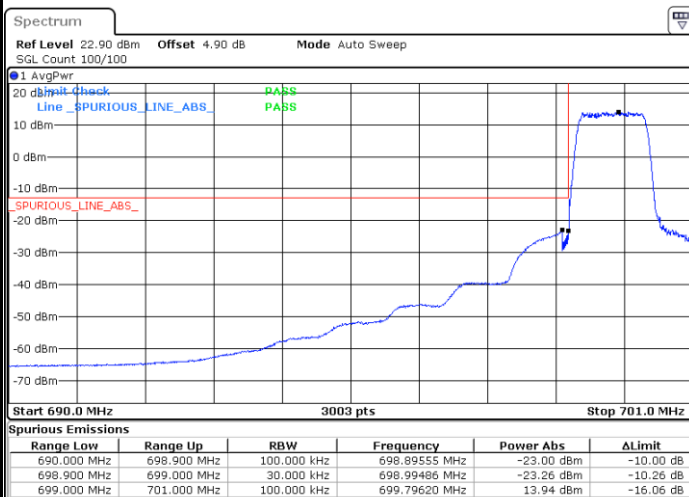
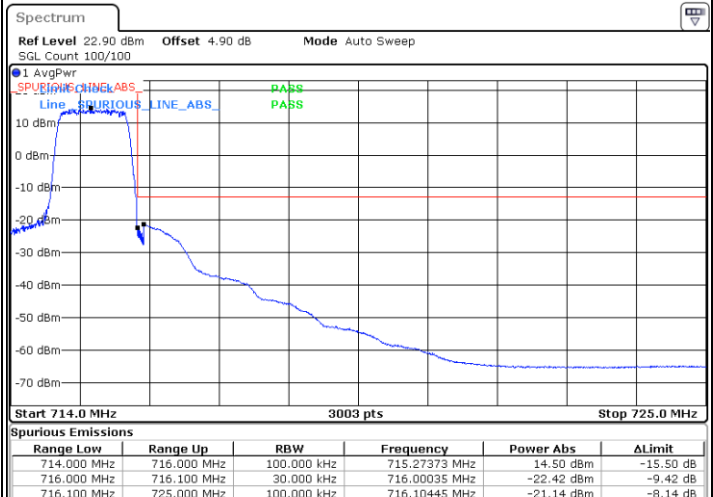


Date: 9 NOV 2019 12:50:42

Highest Channel / 10MHz / 16QAM



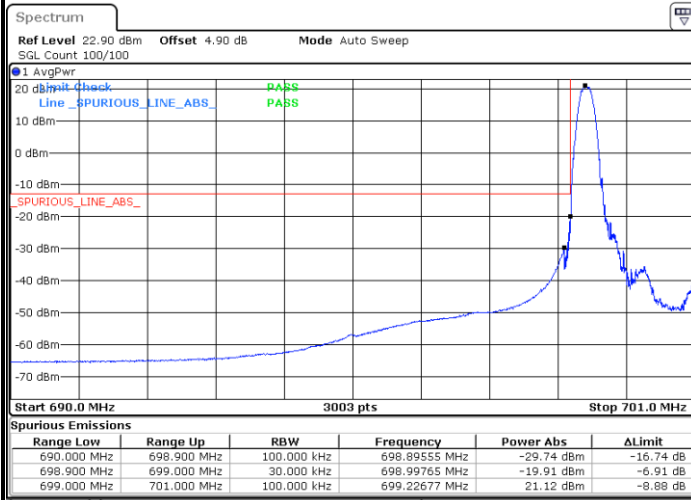
Date: 9 NOV 2019 12:50:52

**Conducted Band Edge****LTE Band 12 / 1.4MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**



LTE Band 12 / 1.4MHz / 16QAM

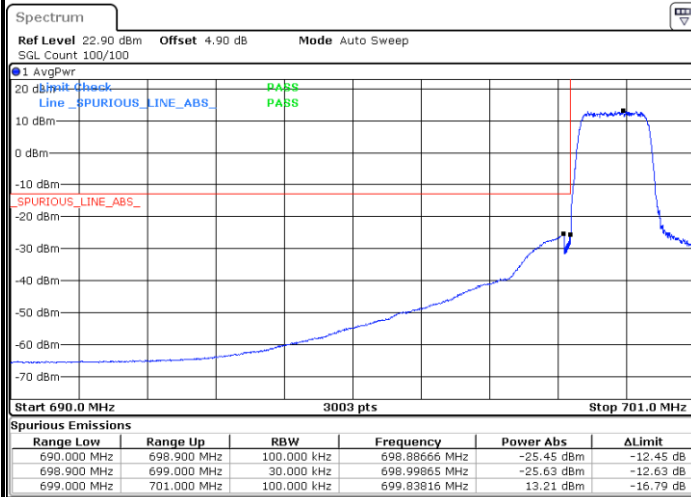
Lowest Band Edge / 1 RB



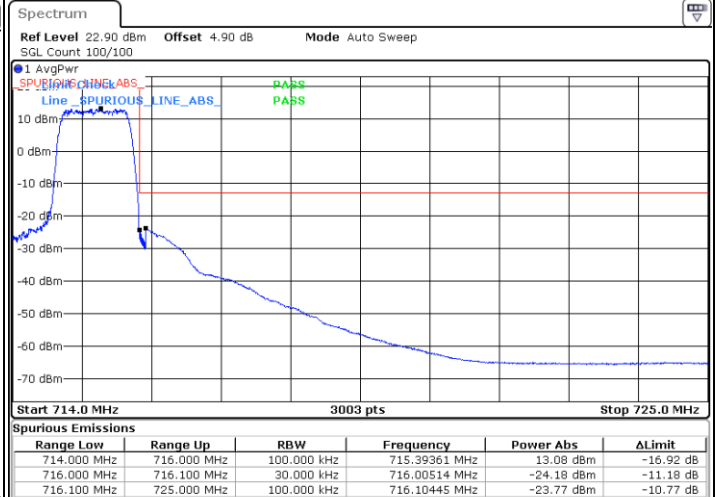
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



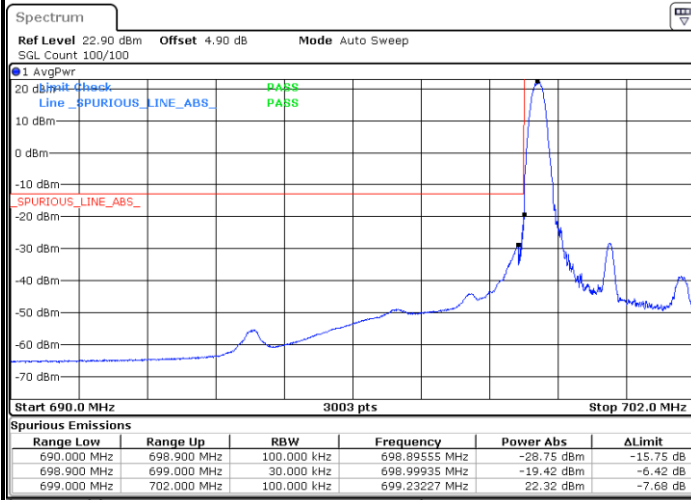
Highest Band Edge / Full RB



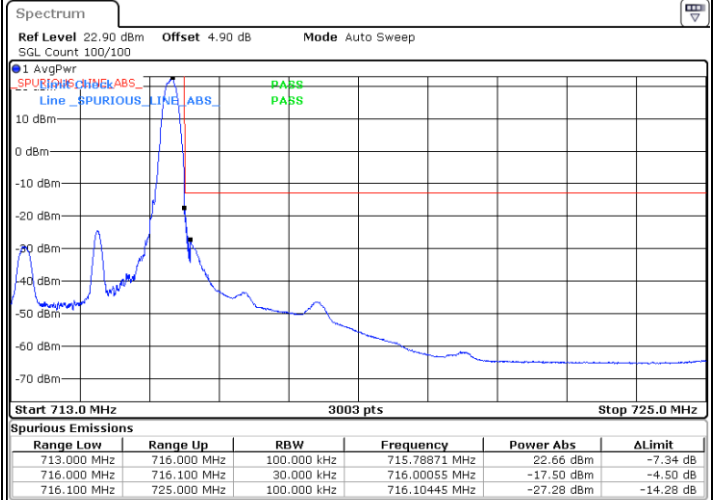


LTE Band 12 / 3MHz / QPSK

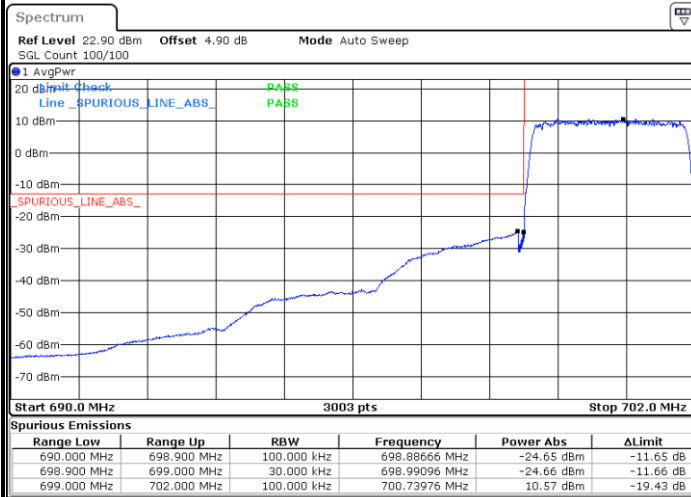
Lowest Band Edge / 1RB



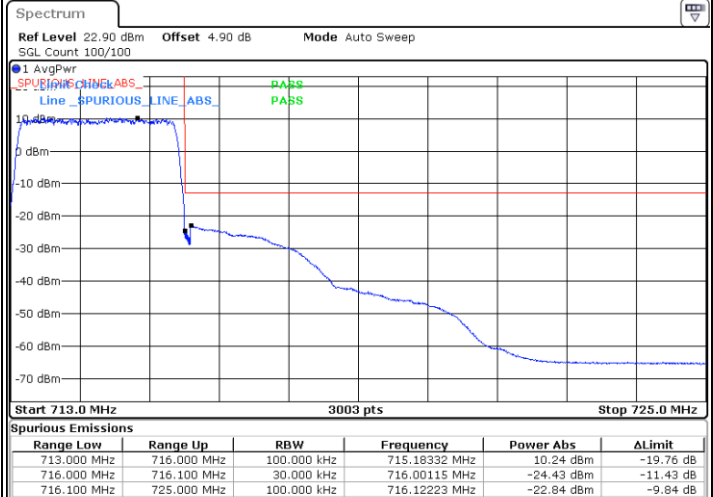
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



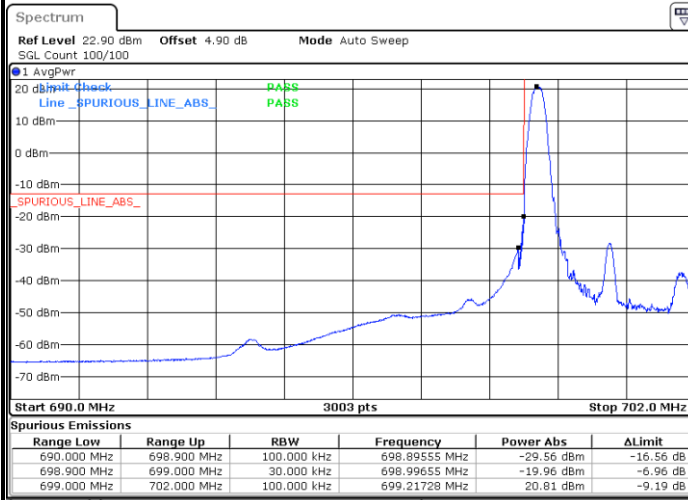
Highest Band Edge / Full RB



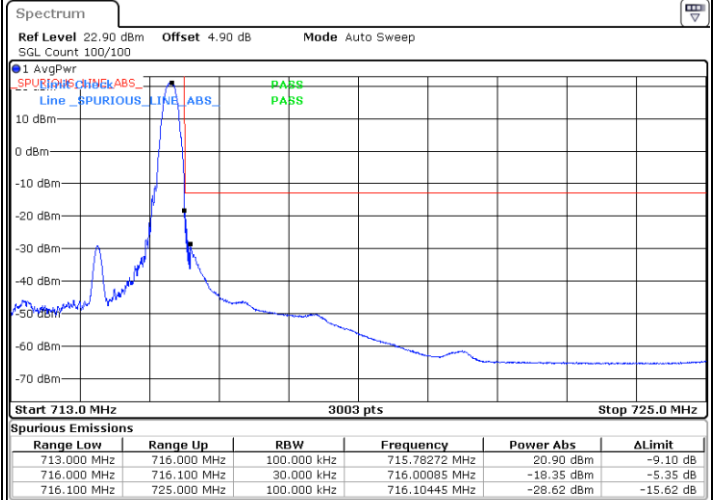


LTE Band 12 / 3MHz / 16QAM

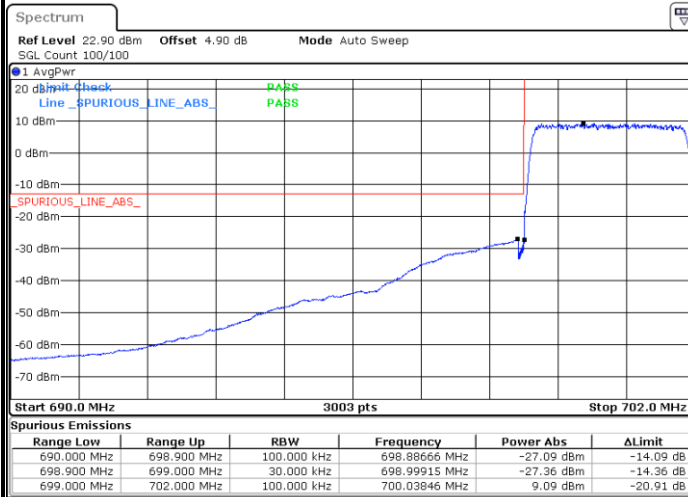
Lowest Band Edge / 1 RB



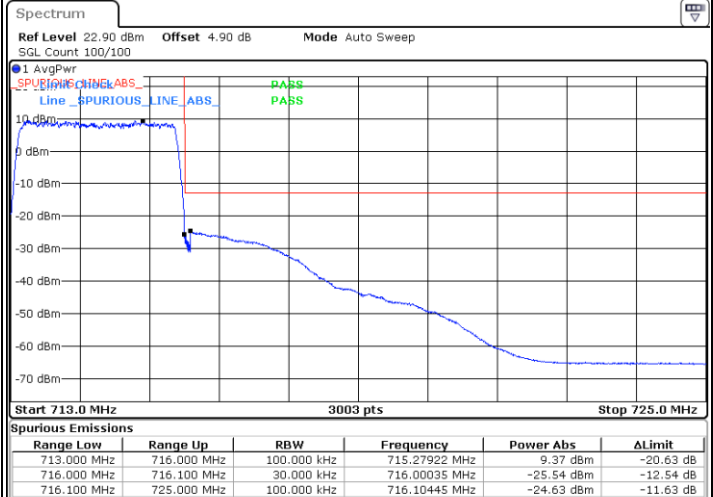
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



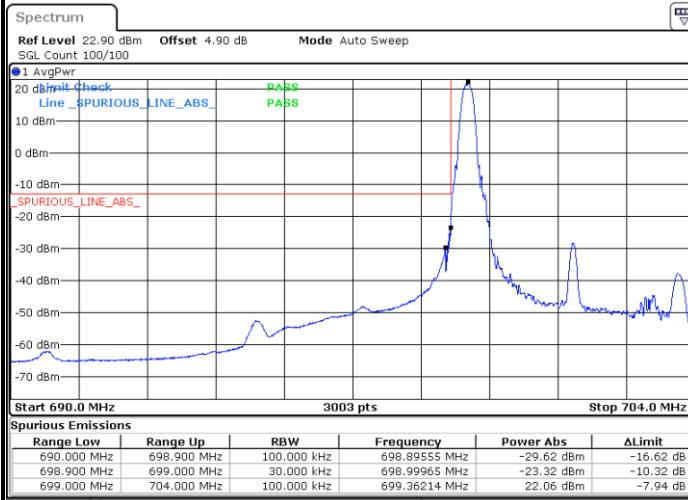
Highest Band Edge / Full RB



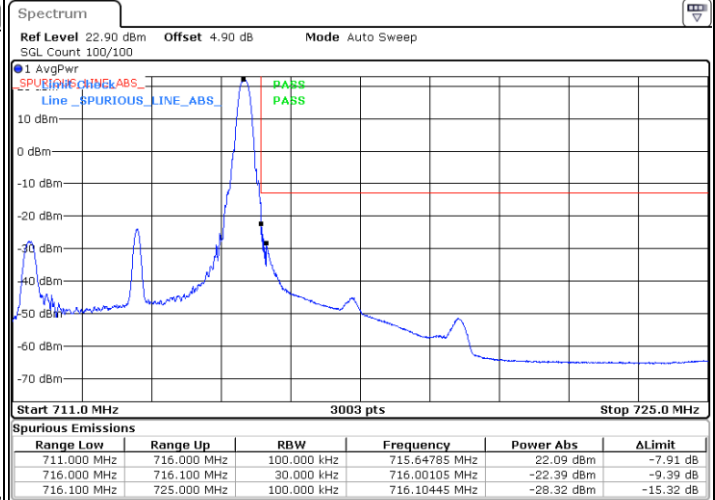


LTE Band 12 / 5MHz / QPSK

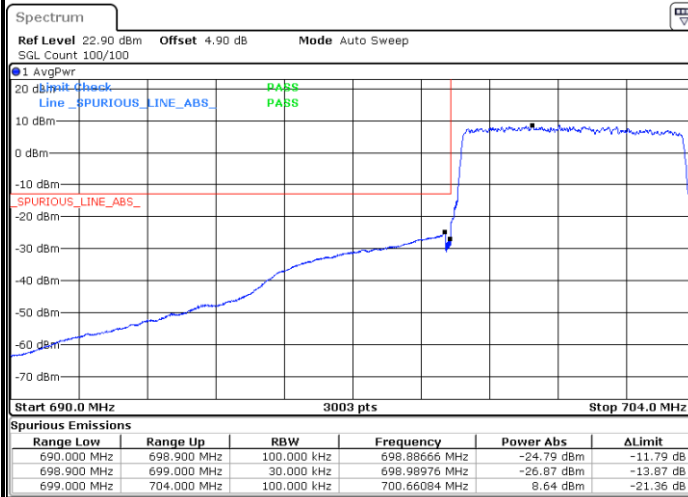
Lowest Band Edge / 1 RB



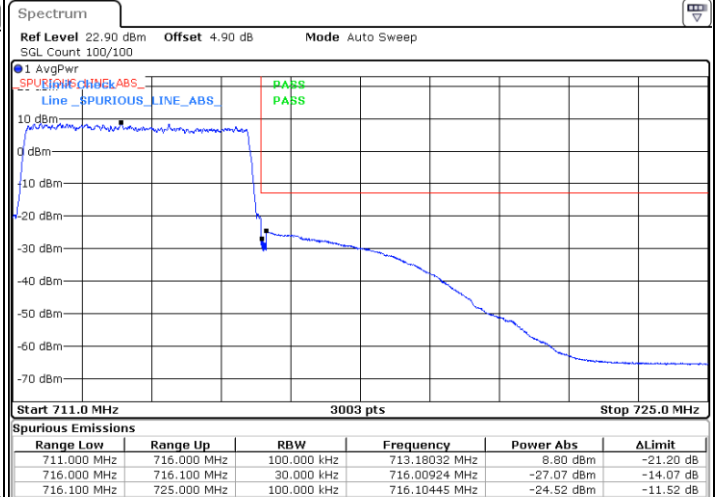
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



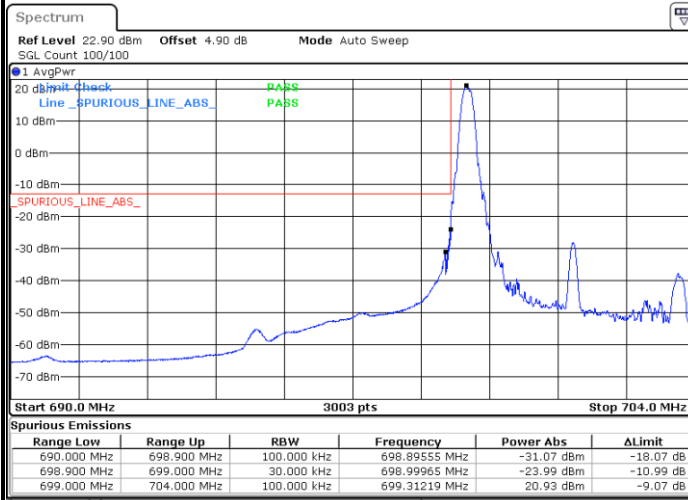
Highest Band Edge / Full RB



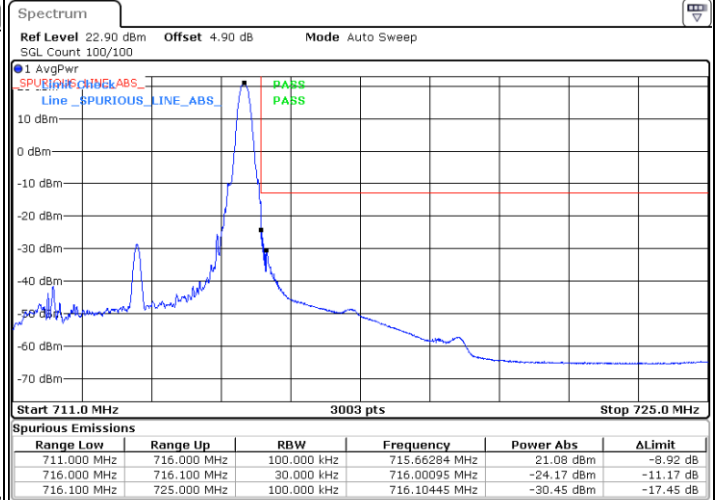


LTE Band 12 / 5MHz / 16QAM

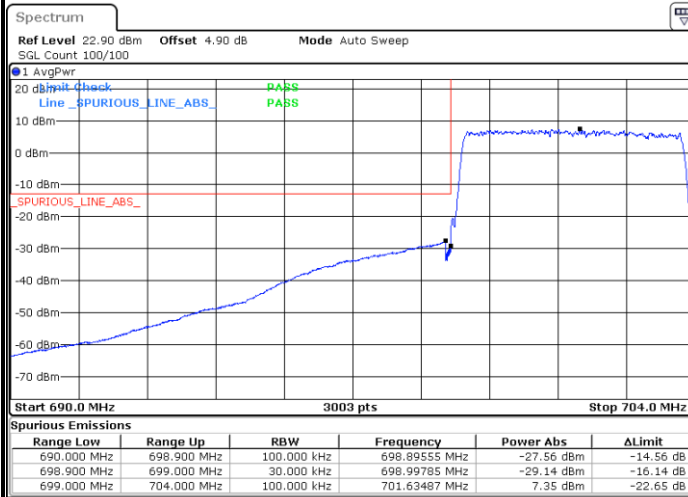
Lowest Band Edge / 1RB



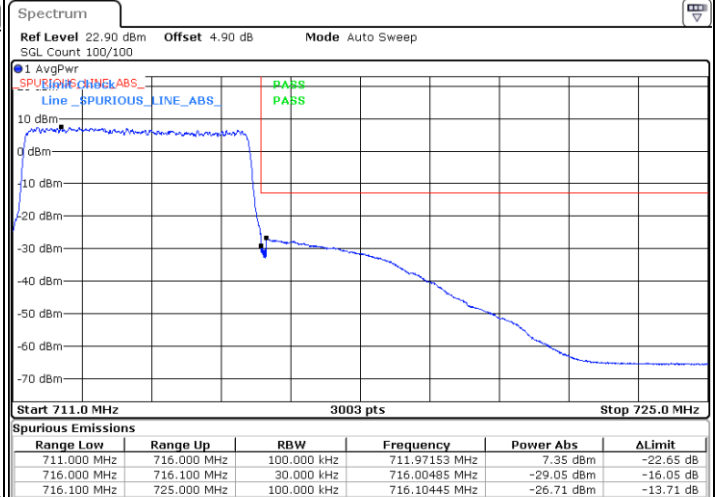
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



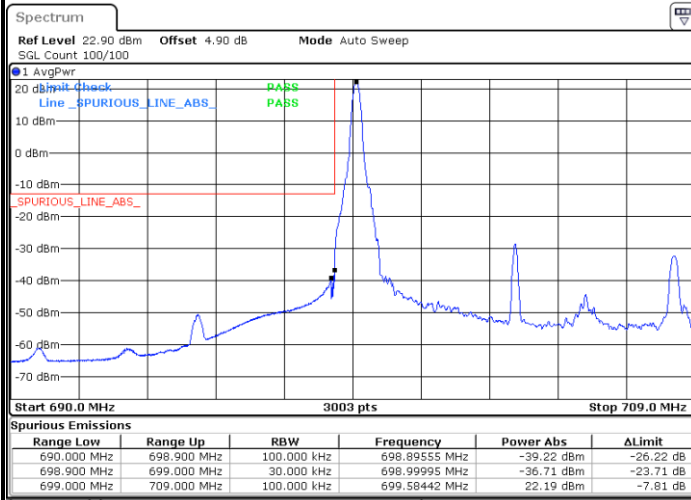
Highest Band Edge / Full RB



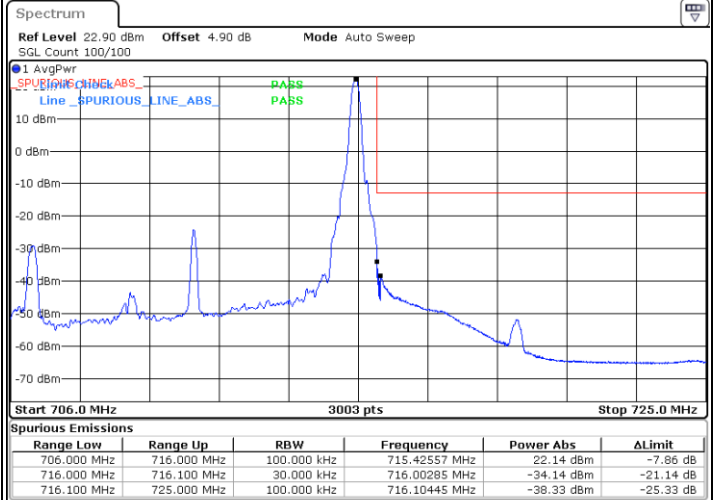


LTE Band 12 / 10MHz / QPSK

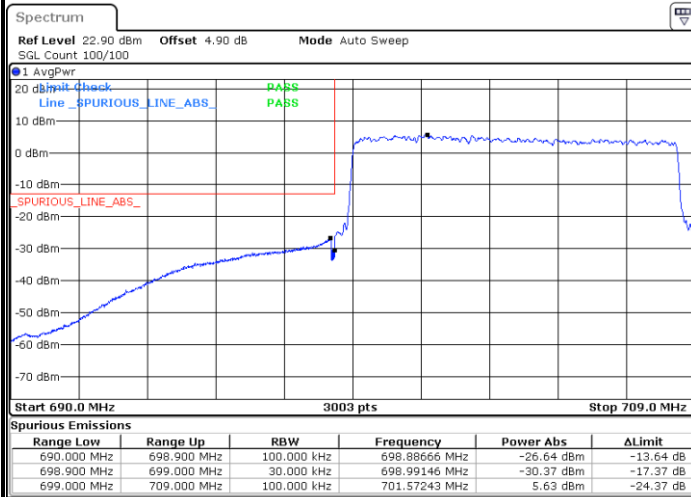
Lowest Band Edge / 1 RB



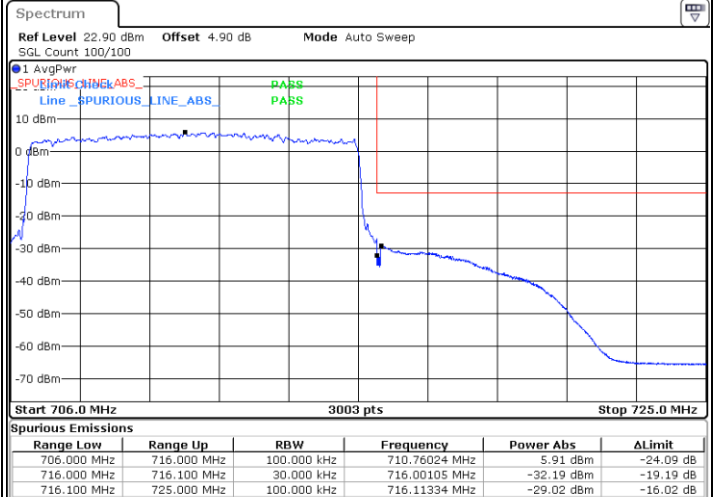
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



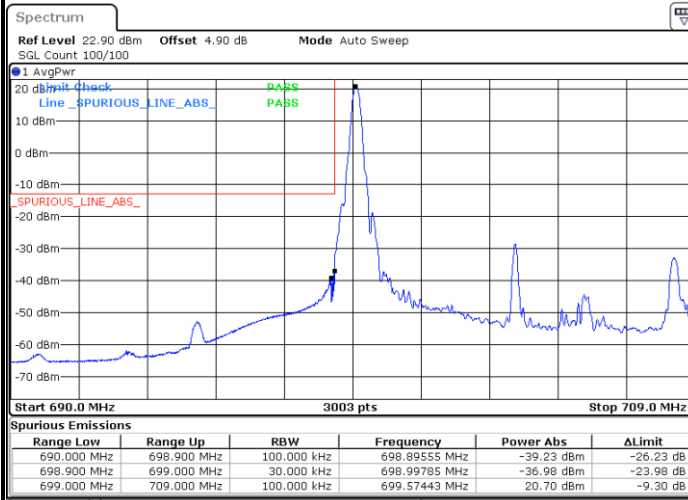
Highest Band Edge / Full RB



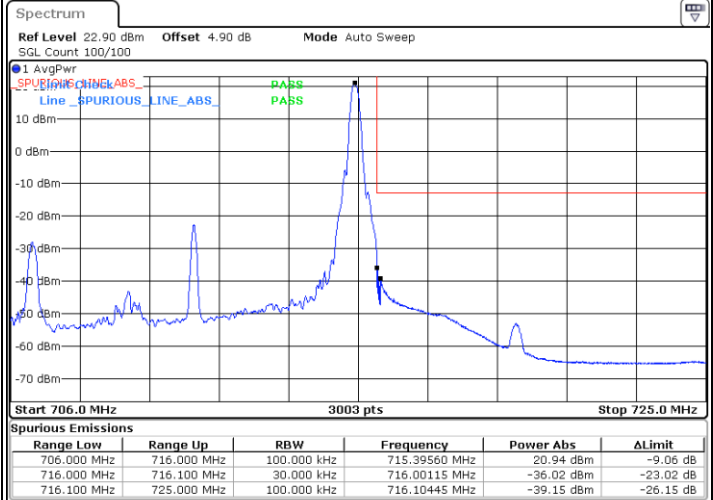


LTE Band 12 / 10MHz / 16QAM

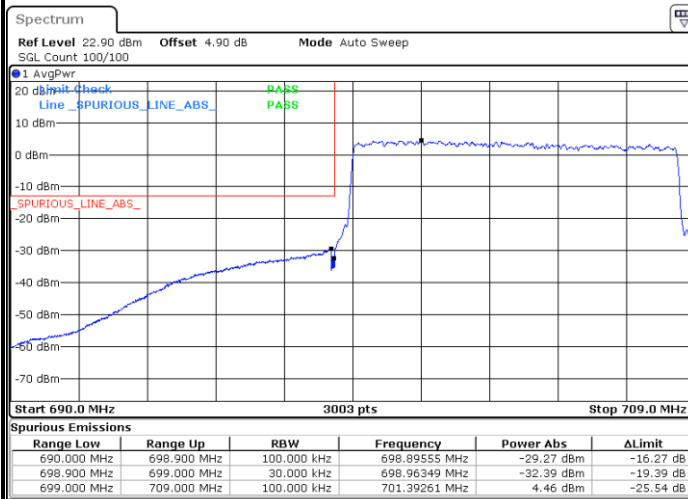
Lowest Band Edge / 1 RB



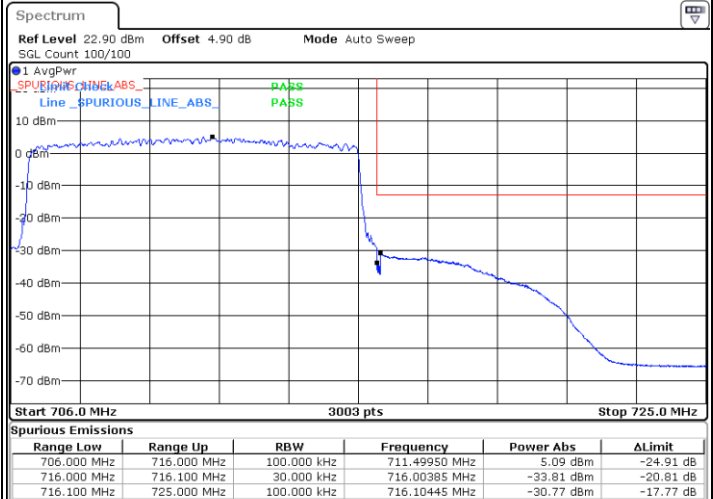
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

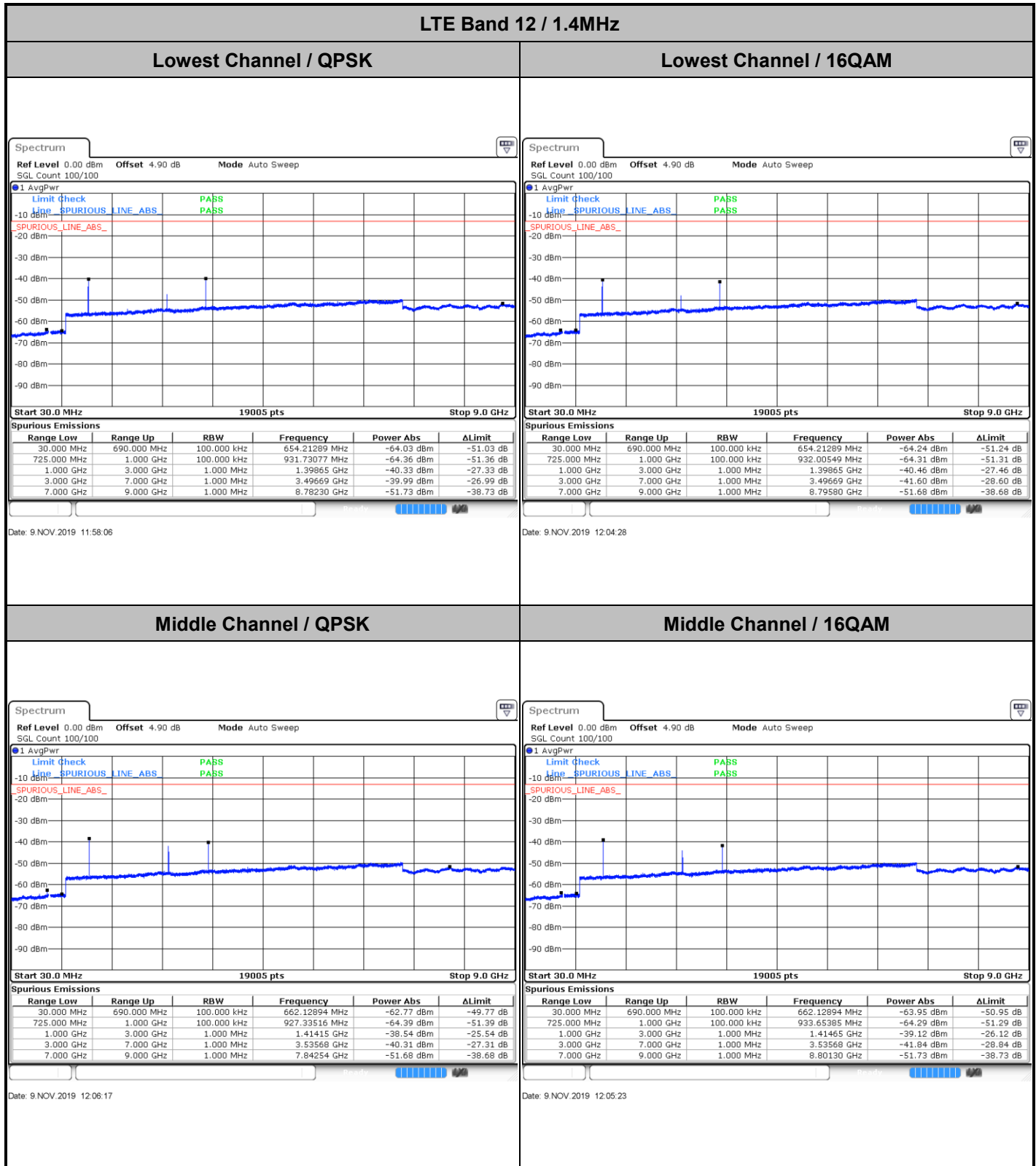


Highest Band Edge / Full RB





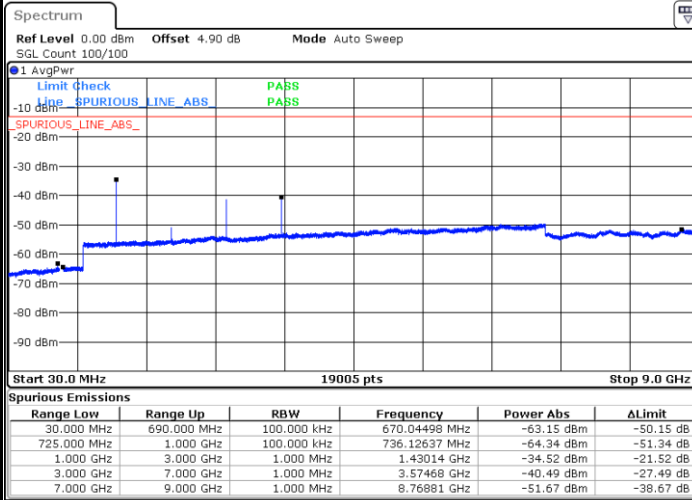
Conducted Spurious Emission





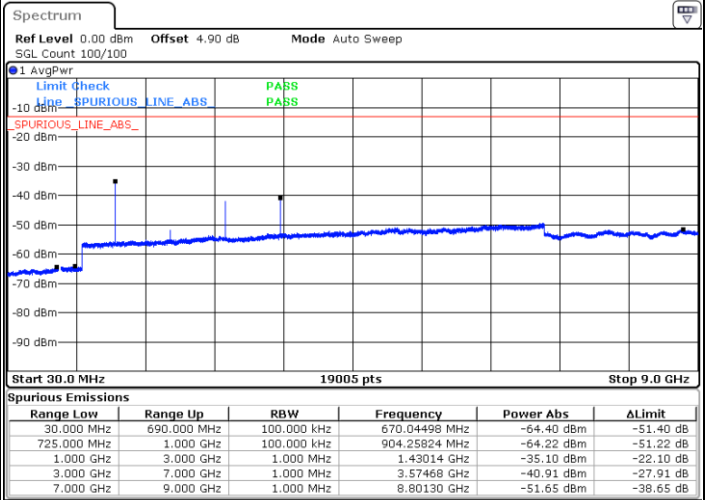
LTE Band 12 / 1.4MHz

Highest Channel / QPSK



Date: 9.NOV.2019 12:07:11

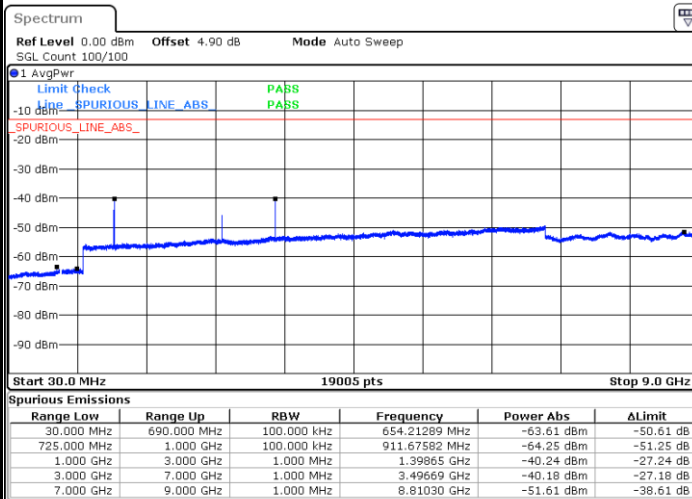
Highest Channel / 16QAM



Date: 9.NOV.2019 12:08:05

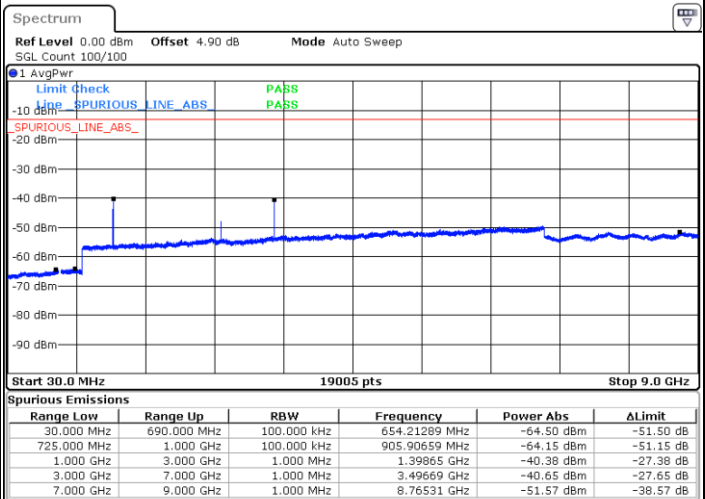
LTE Band 12 / 3MHz

Lowest Channel / QPSK



Date: 9.NOV.2019 12:19:58

Lowest Channel / 16QAM

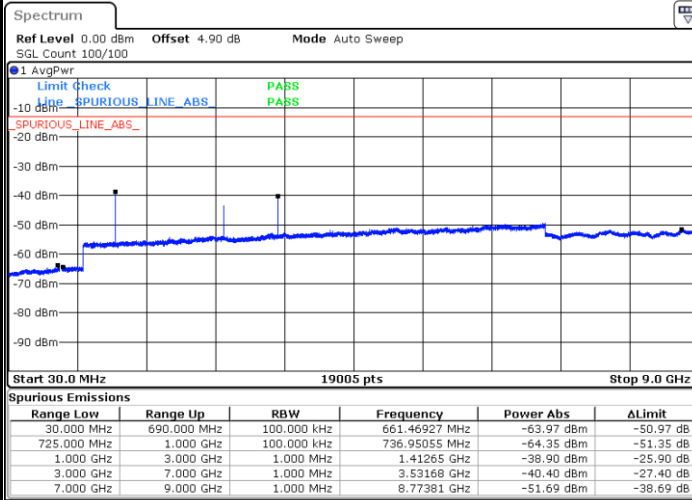


Date: 9.NOV.2019 12:20:52



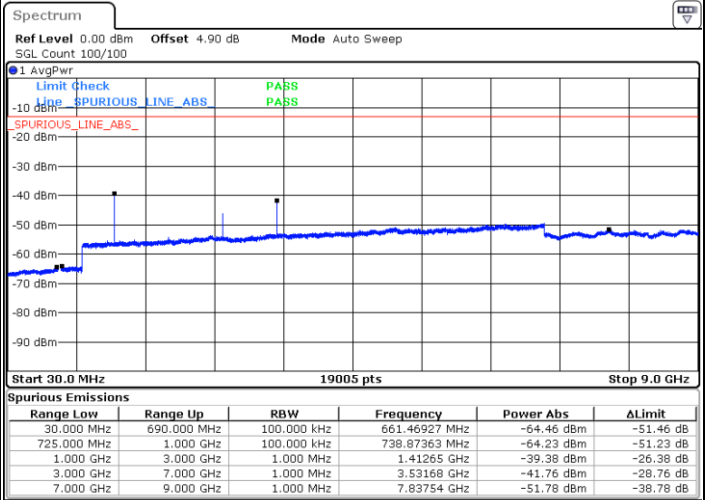
LTE Band 12 / 3MHz

Middle Channel / QPSK



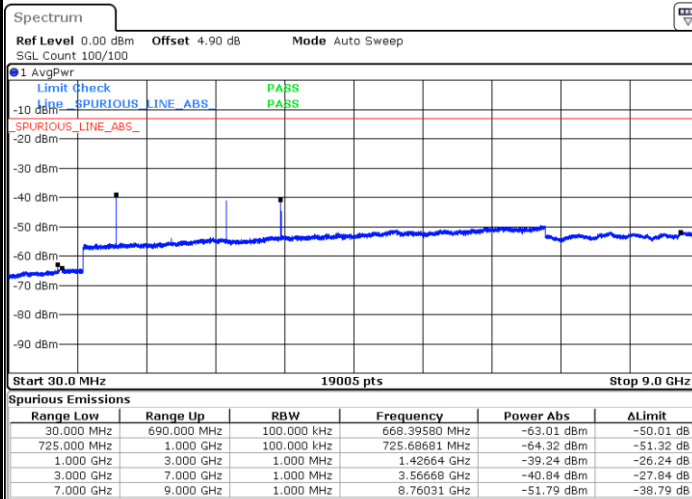
Date: 9 NOV. 2019 12:22:41

Middle Channel / 16QAM



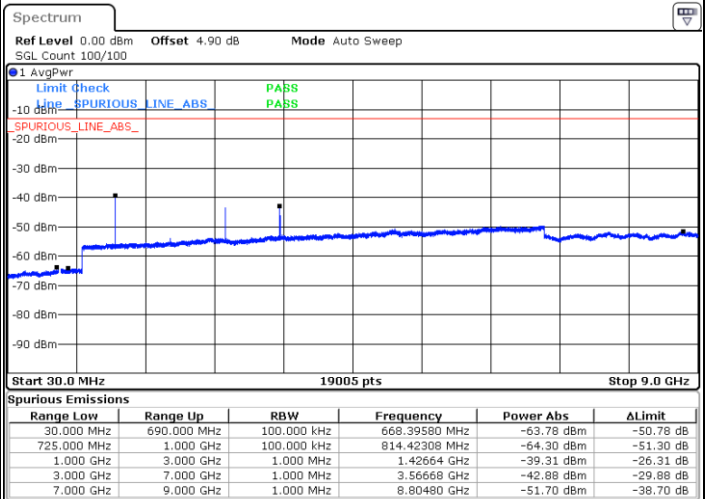
Date: 9 NOV. 2019 12:21:47

Highest Channel / QPSK



Date: 9 NOV. 2019 12:23:35

Highest Channel / 16QAM

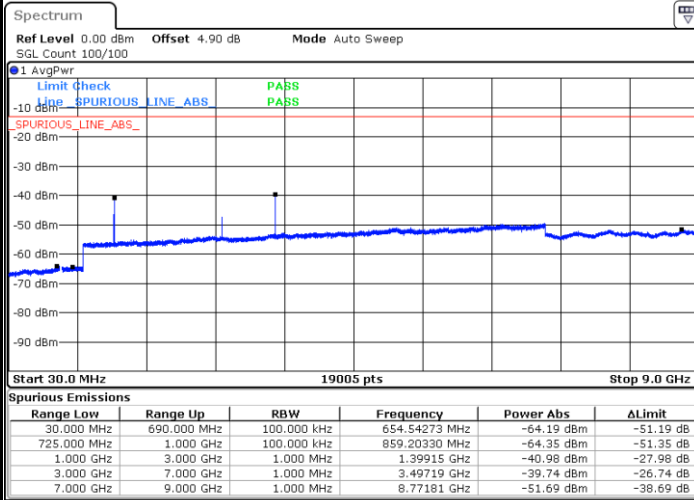


Date: 9 NOV. 2019 12:24:29



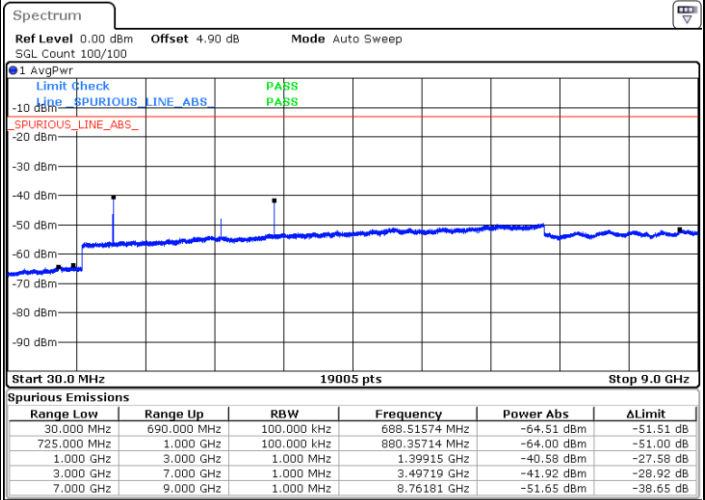
LTE Band 12 / 5MHz

Lowest Channel / QPSK



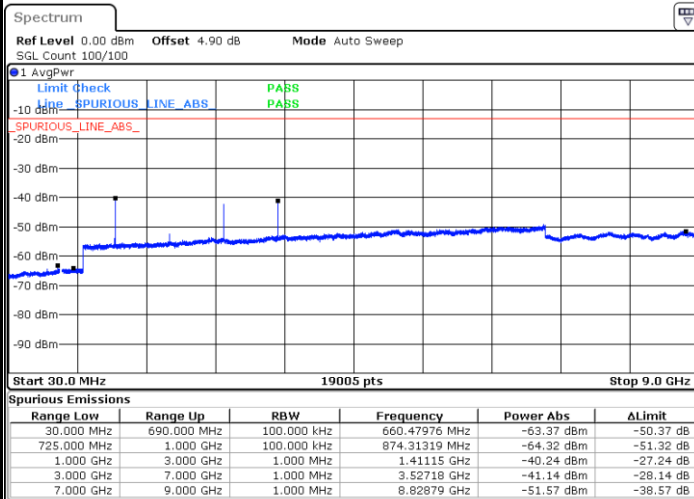
Date: 9 NOV. 2019 12:36:22

Lowest Channel / 16QAM



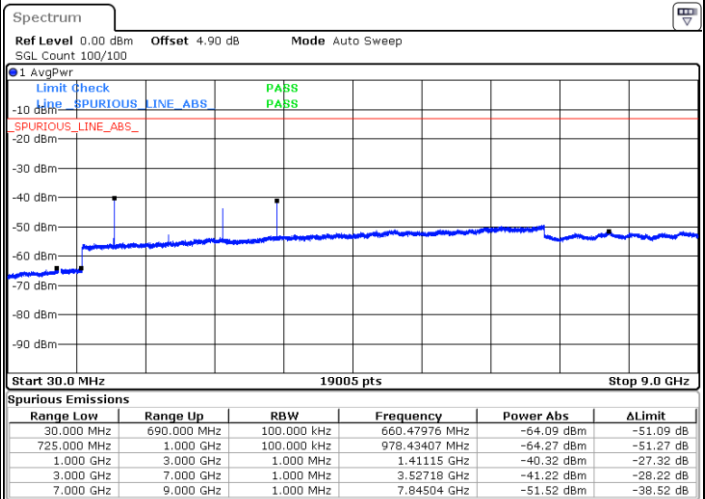
Date: 9 NOV. 2019 12:37:16

Middle Channel / QPSK



Date: 9 NOV. 2019 12:39:04

Middle Channel / 16QAM



Date: 9 NOV. 2019 12:38:10