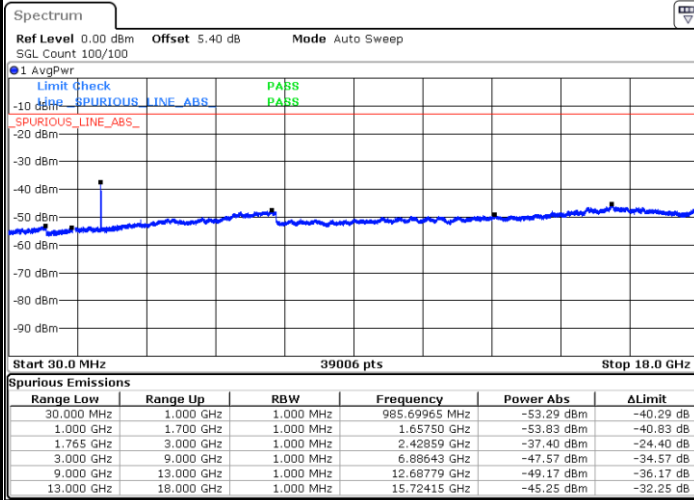




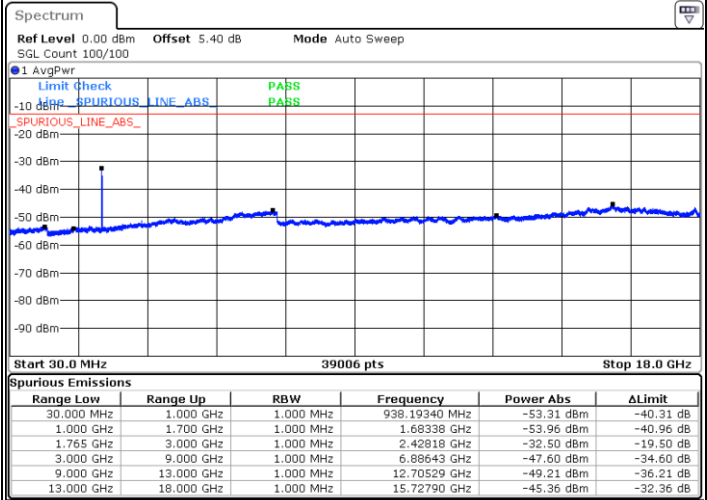
LTE Band 4 / 10MHz

Middle Channel / QPSK



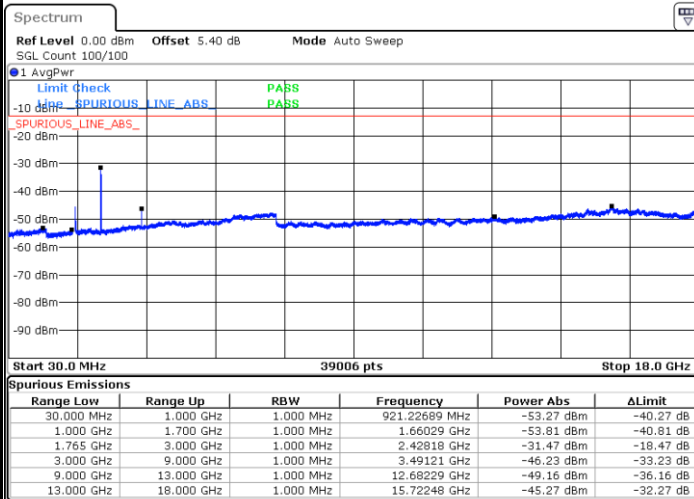
Date: 27.NOV.2019 14:26:36

Middle Channel / 16QAM



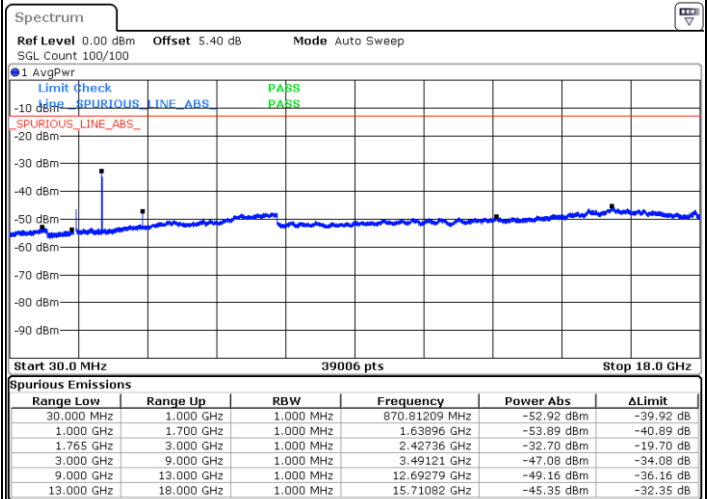
Date: 27.NOV.2019 14:27:31

Highest Channel / QPSK



Date: 27.NOV.2019 14:33:35

Highest Channel / 16QAM

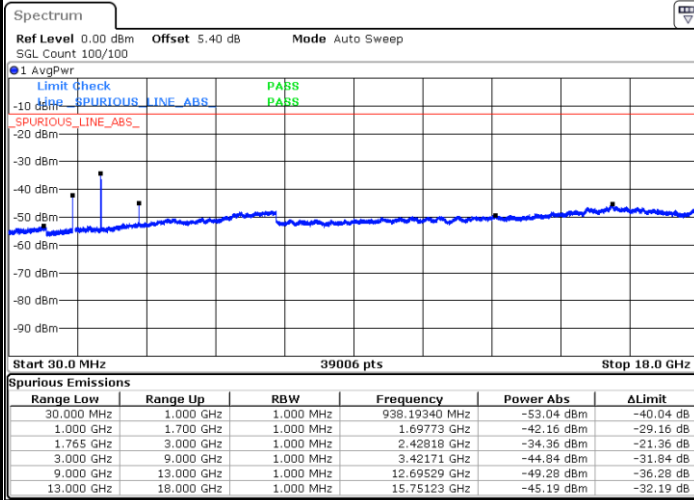


Date: 27.NOV.2019 14:34:29



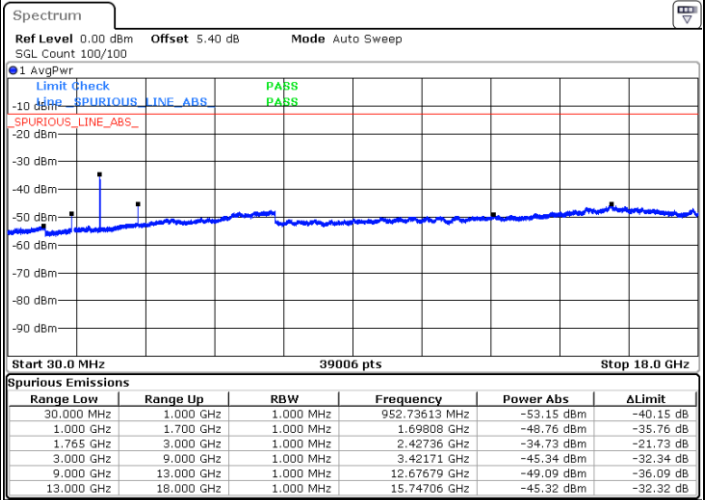
LTE Band 4 / 15MHz

Lowest Channel / QPSK



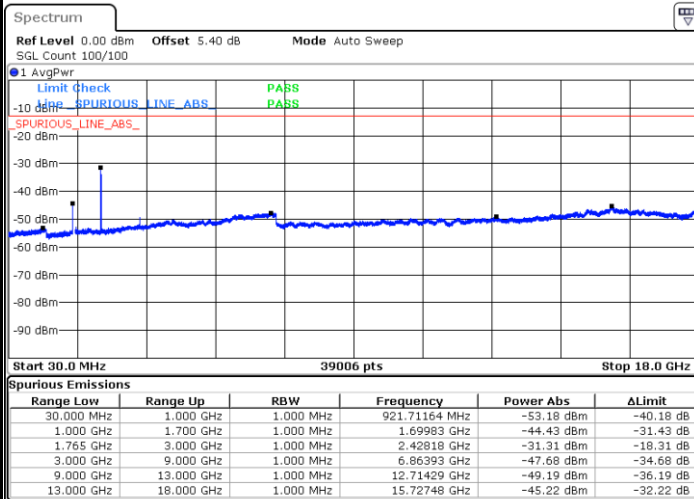
Date: 27.NOV.2019 14:40:34

Lowest Channel / 16QAM



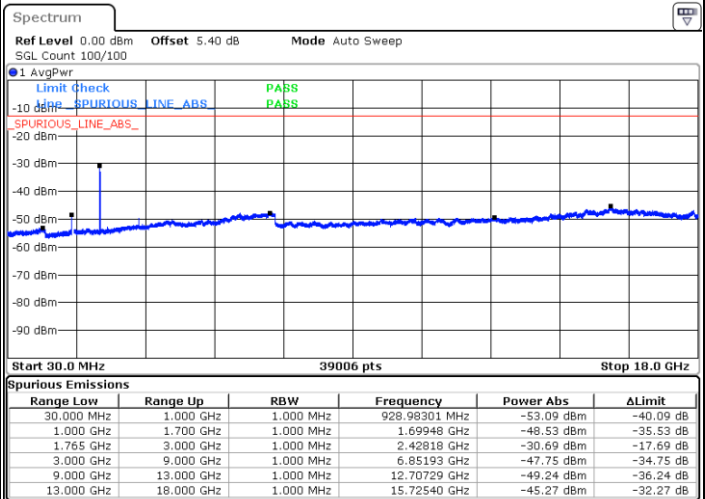
Date: 27.NOV.2019 14:41:29

Middle Channel / QPSK



Date: 27.NOV.2019 14:43:03

Middle Channel / 16QAM

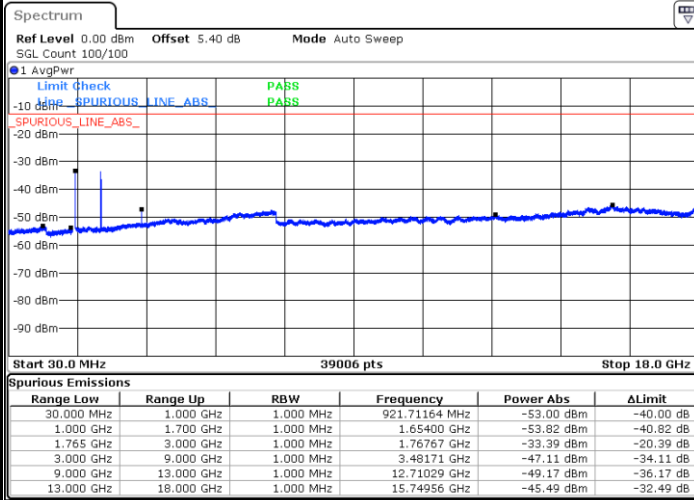


Date: 27.NOV.2019 14:43:58



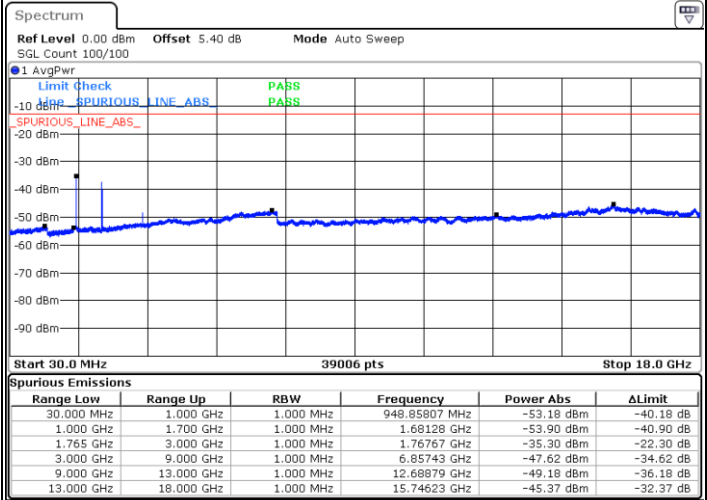
LTE Band 4 / 15MHz

Highest Channel / QPSK



Date: 27 NOV 2019 14:50:02

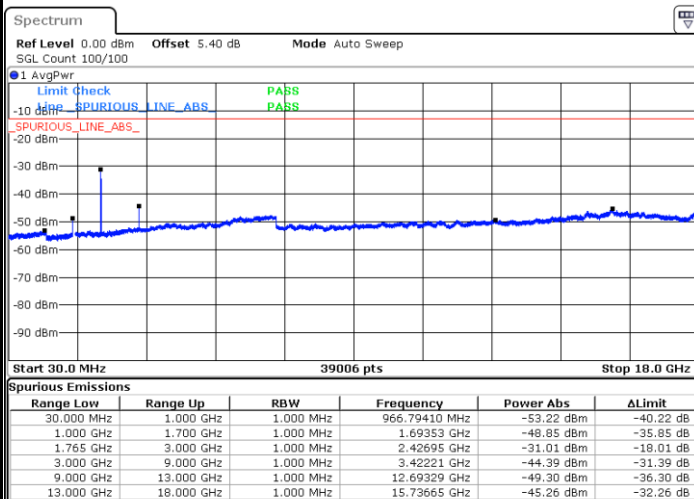
Highest Channel / 16QAM



Date: 27 NOV 2019 14:50:57

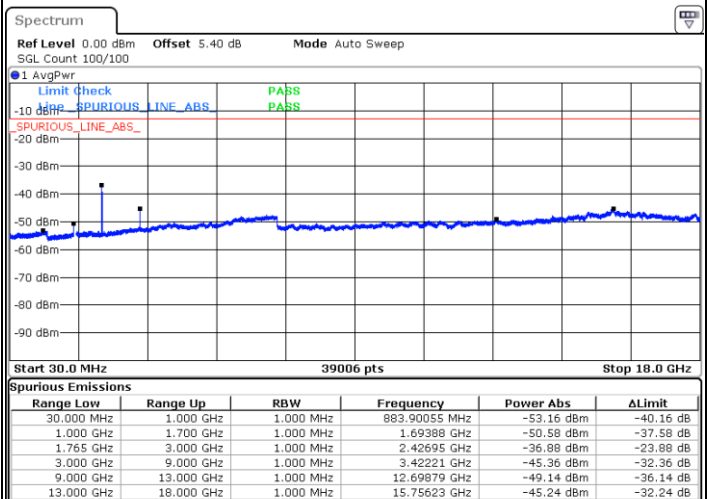
LTE Band 4 / 20MHz

Lowest Channel / QPSK



Date: 27 NOV 2019 14:57:01

Lowest Channel / 16QAM

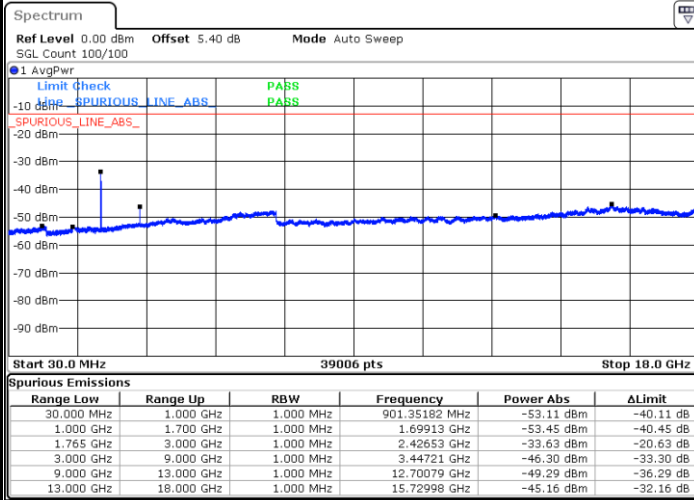


Date: 27 NOV 2019 14:57:55



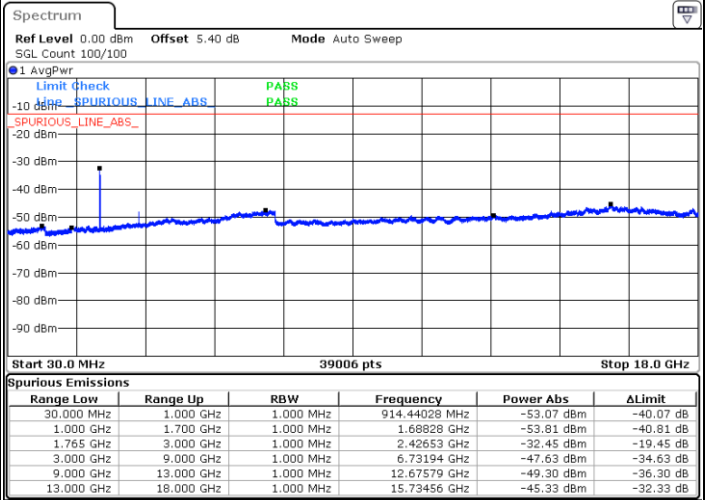
LTE Band 4 / 20MHz

Middle Channel / QPSK



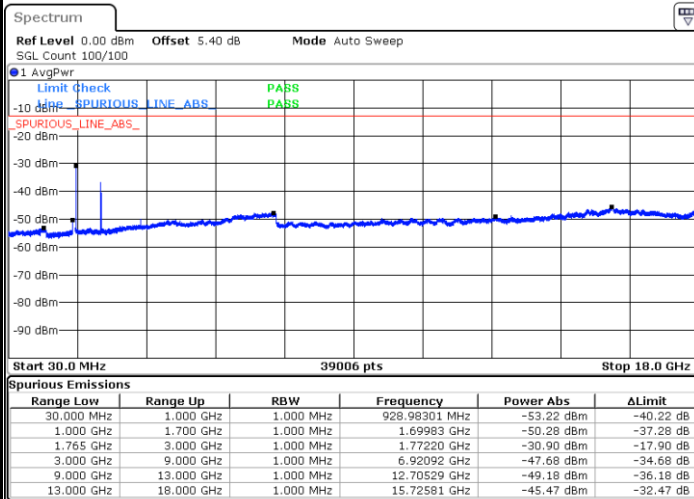
Date: 27.NOV.2019 14:59:30

Middle Channel / 16QAM



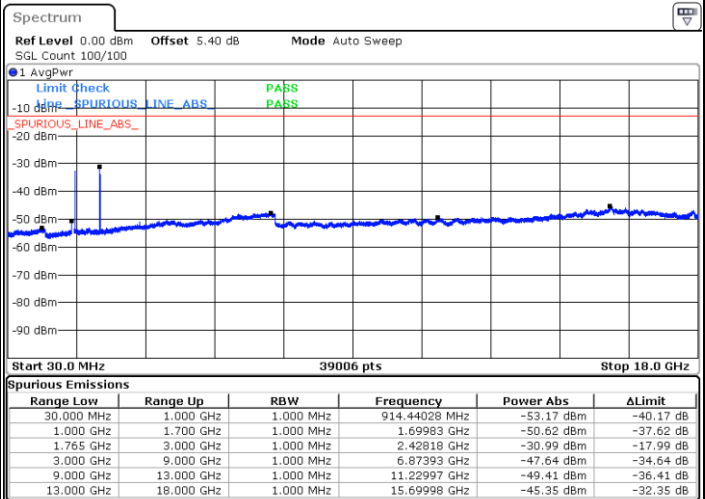
Date: 27.NOV.2019 15:00:24

Highest Channel / QPSK



Date: 27.NOV.2019 15:06:29

Highest Channel / 16QAM



Date: 27.NOV.2019 15:07:24

Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0025	PASS
40	Normal Voltage	0.0023	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0029	
0	Normal Voltage	0.0019	
-10	Normal Voltage	0.0007	
-20	Normal Voltage	0.0024	
-30	Normal Voltage	0.0021	
20	Maximum Voltage	0.0014	
20	Normal Voltage	0.0026	
20	Battery End Point	0.0004	

Note:

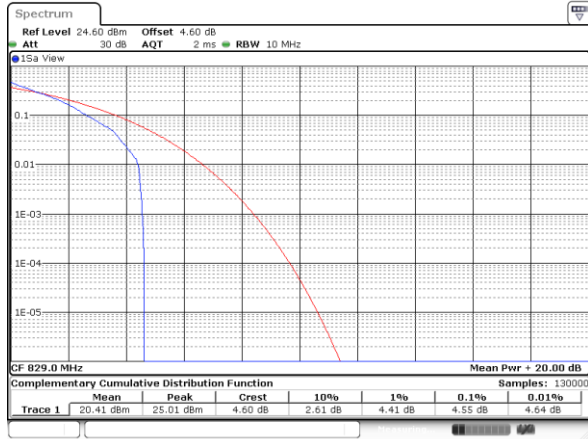
1. Normal Voltage =3.7 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



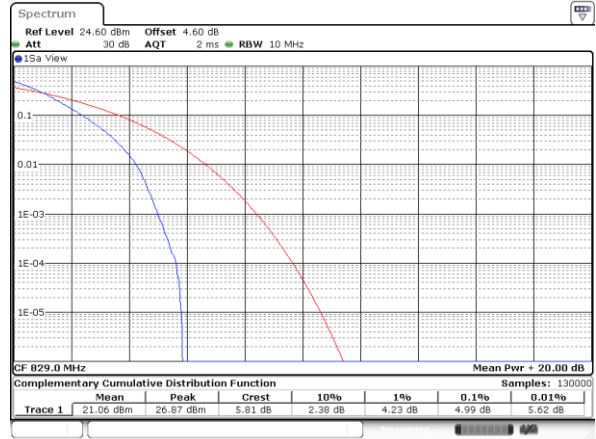
LTE Band 5

Peak-to-Average Ratio

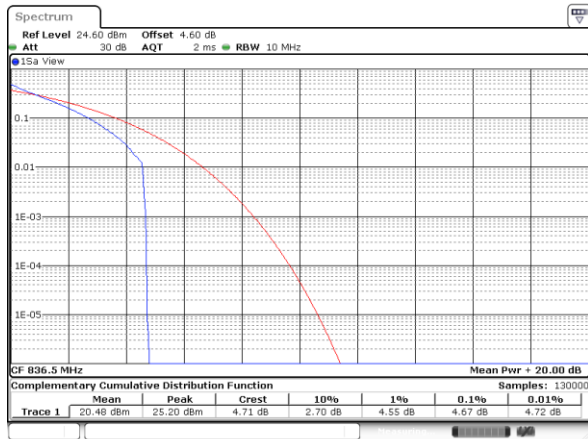
Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.55	4.99	5.33	5.94	PASS
Middle CH	4.67	5.01	5.57	5.94	
Highest CH	4.41	4.87	5.36	5.80	

LTE Band 5 / 10MHz / QPSK
Lowest Channel / 1RB


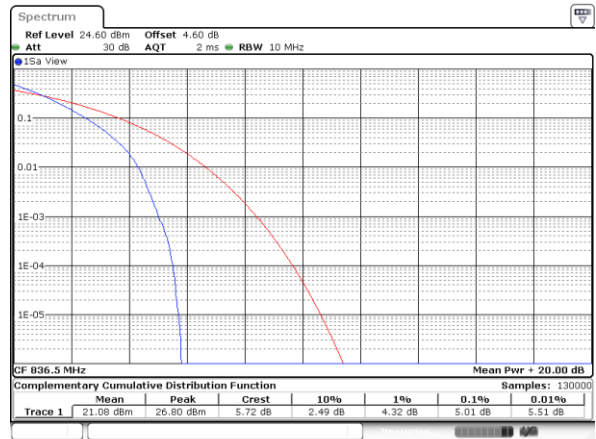
Date: 27 NOV 2019 16:01:21

Lowest Channel / Full RB


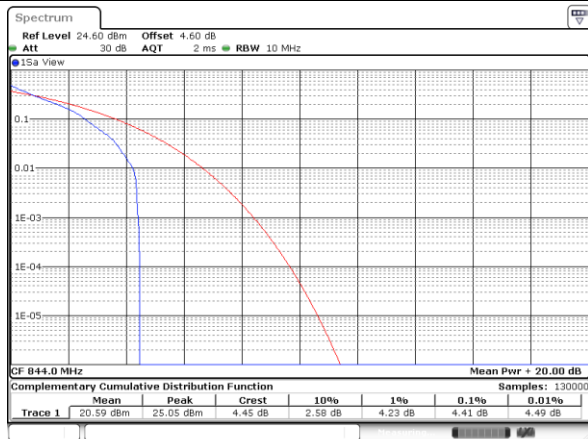
Date: 27 NOV 2019 16:01:30

Middle Channel / 1RB


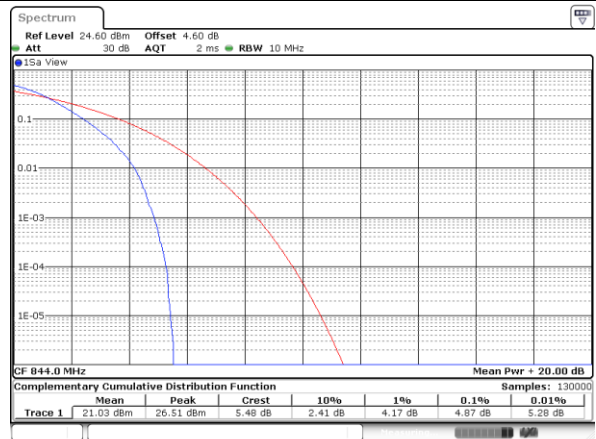
Date: 27 NOV 2019 16:01:48

Middle Channel / Full RB


Date: 27 NOV 2019 16:01:39

Highest Channel / 1RB


Date: 27 NOV 2019 16:01:59

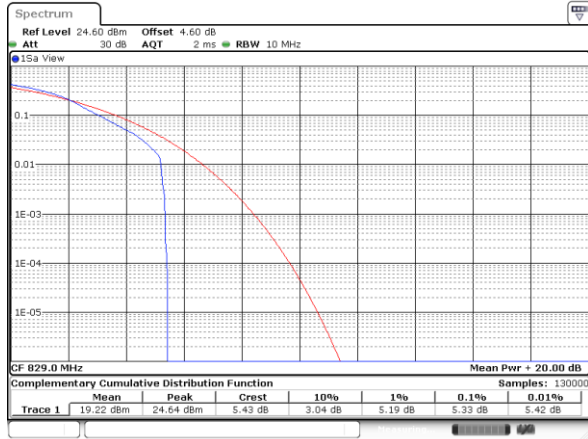
Highest Channel / Full RB


Date: 27 NOV 2019 16:02:08

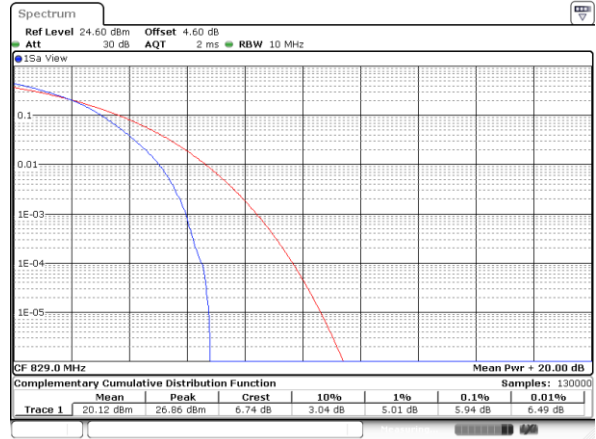


LTE Band 5 / 10MHz / 16QAM

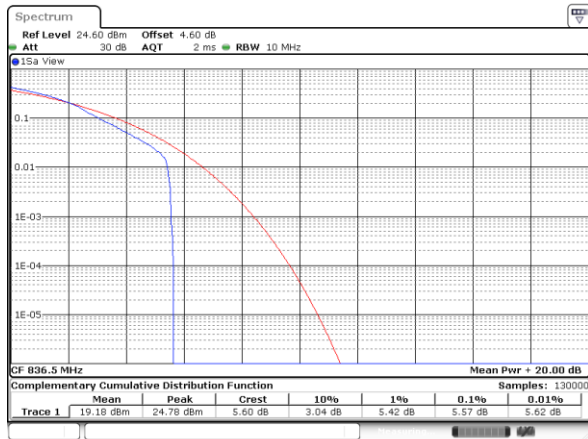
Lowest Channel / 1RB



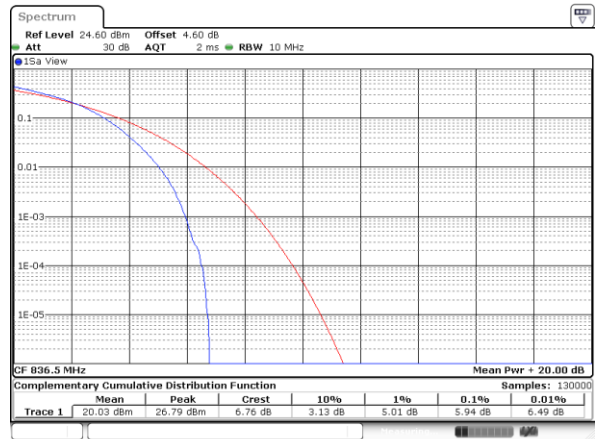
Lowest Channel / Full RB



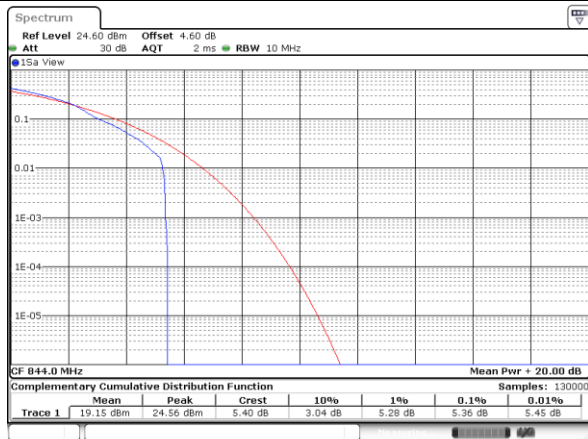
Middle Channel / 1RB



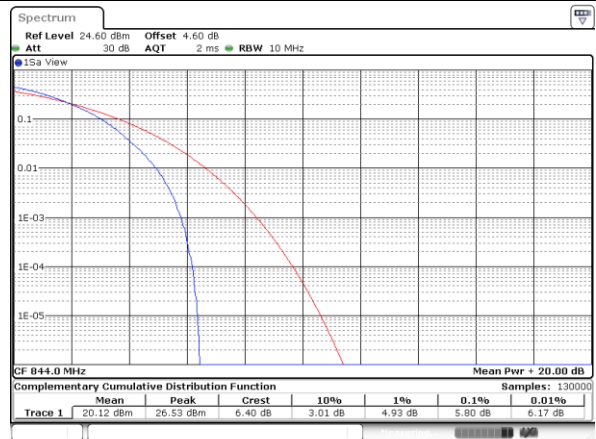
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



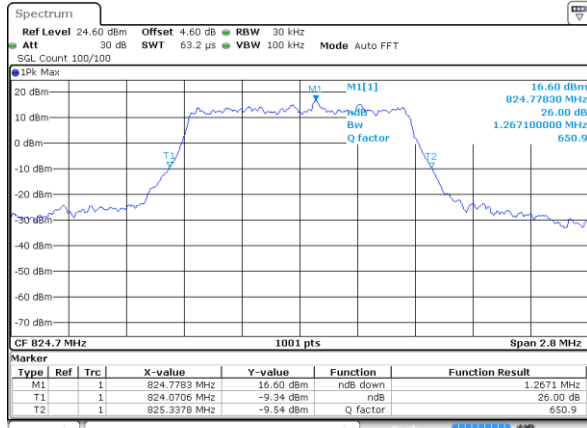
**26dB Bandwidth**

Mode	LTE Band 5 : 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	1.27	1.28	3.02	3.03	4.87	4.89	9.91	9.81				
Middle CH	1.28	1.26	3.04	2.99	4.96	5.02	9.81	9.97				
Highest CH	1.26	1.26	2.96	3.03	4.97	4.91	9.75	9.65				



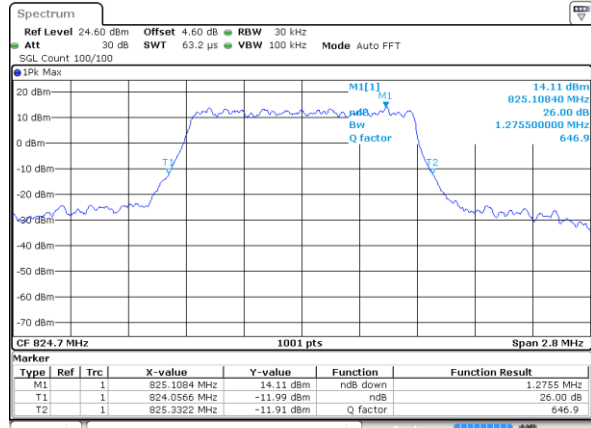
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



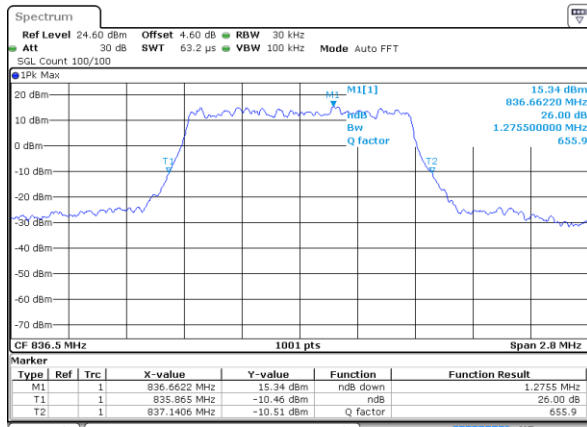
Date: 27 NOV 2019 15:15:21

Lowest Channel / 1.4MHz / 16QAM



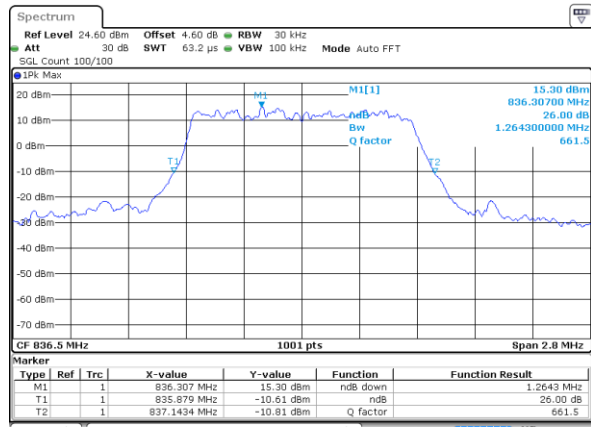
Date: 27 NOV 2019 15:15:11

Middle Channel / 1.4MHz / QPSK



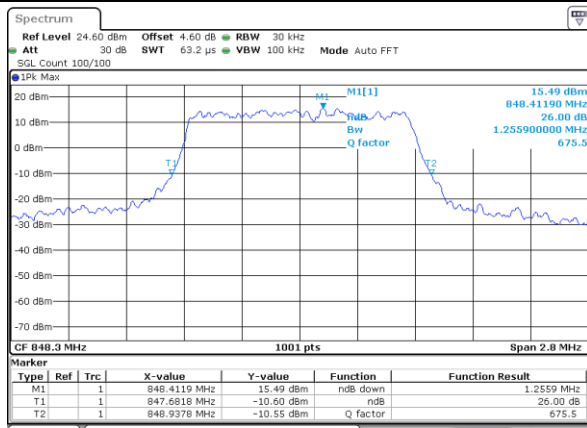
Date: 27 NOV 2019 15:24:09

Middle Channel / 1.4MHz / 16QAM



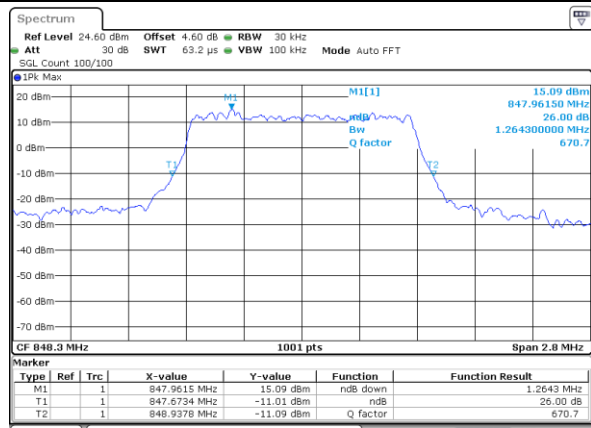
Date: 27 NOV 2019 15:24:19

Highest Channel / 1.4MHz / QPSK



Date: 27 NOV 2019 15:26:38

Highest Channel / 1.4MHz / 16QAM

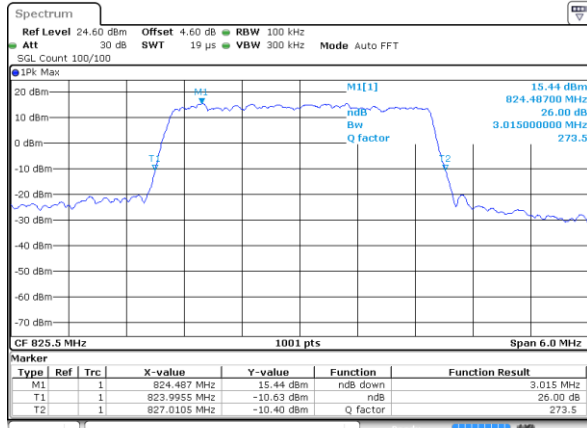


Date: 27 NOV 2019 15:26:48

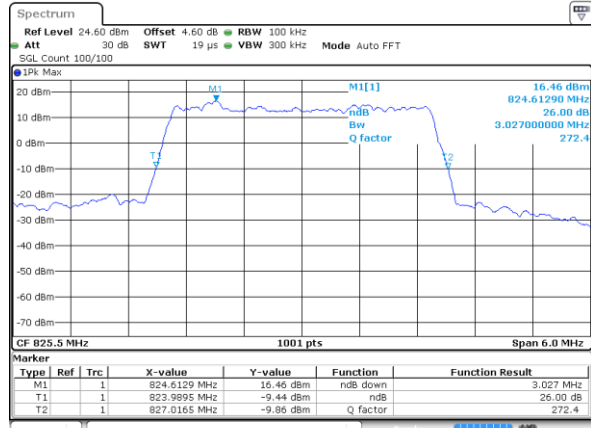


LTE Band 5

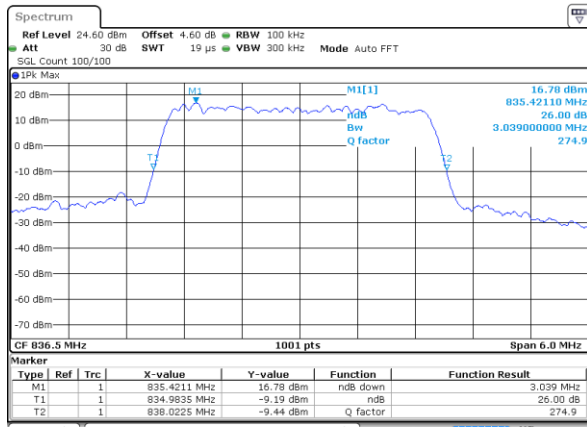
Lowest Channel / 3MHz / QPSK



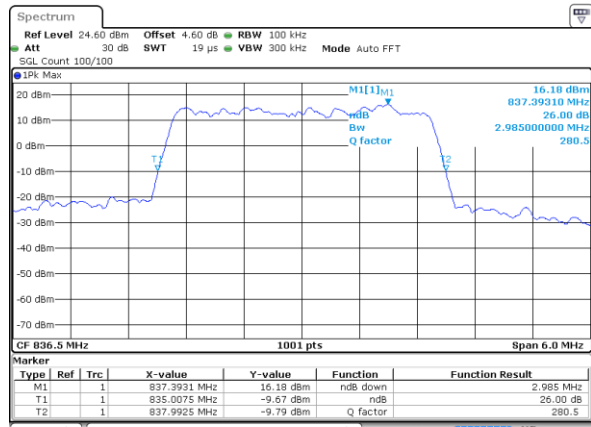
Lowest Channel / 3MHz / 16QAM



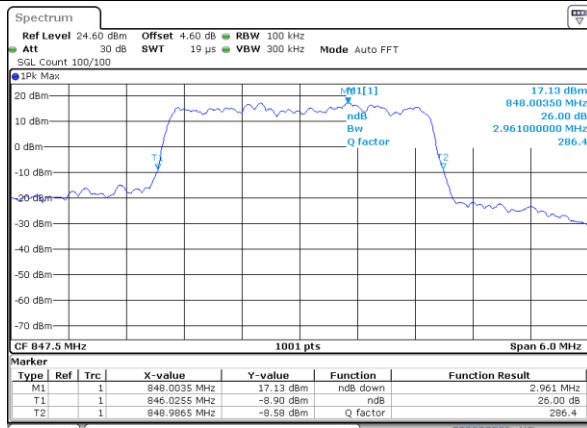
Middle Channel / 3MHz / QPSK



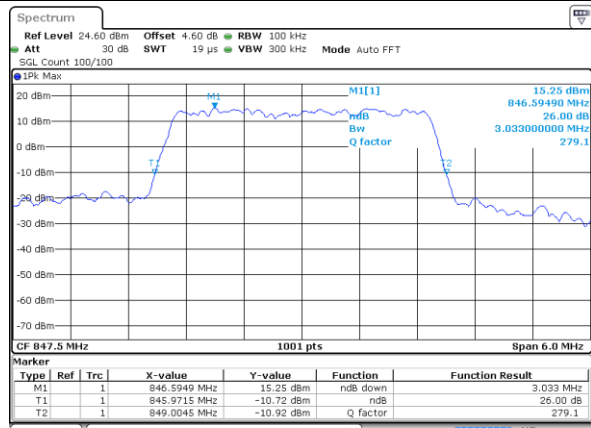
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



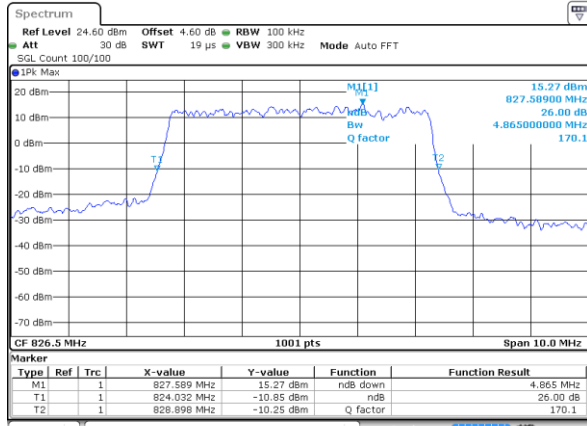
Highest Channel / 3MHz / 16QAM





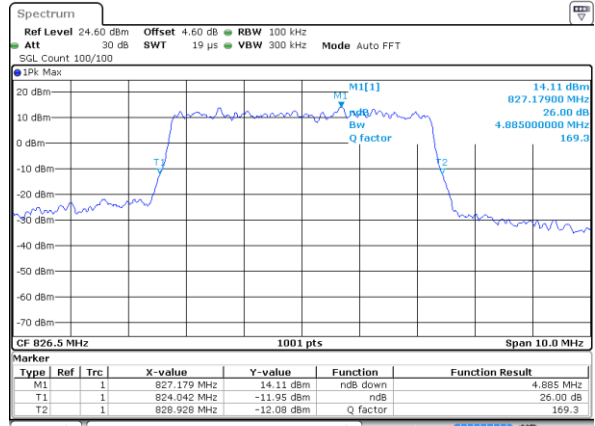
LTE Band 5

Lowest Channel / 5MHz / QPSK



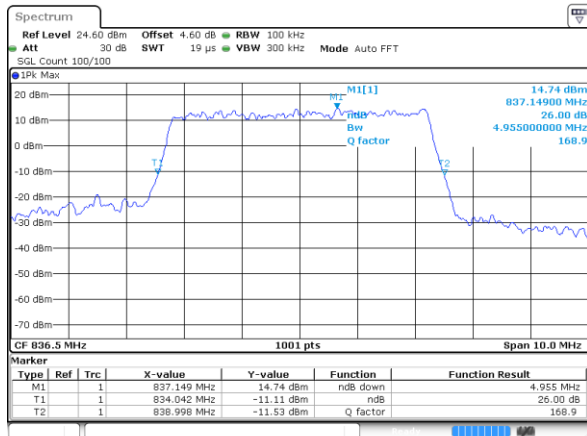
Date: 27 NOV 2019 15:45:53

Lowest Channel / 5MHz / 16QAM



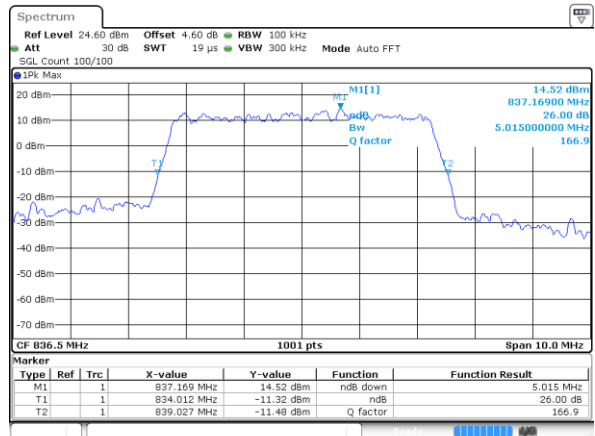
Date: 27 NOV 2019 15:46:03

Middle Channel / 5MHz / QPSK



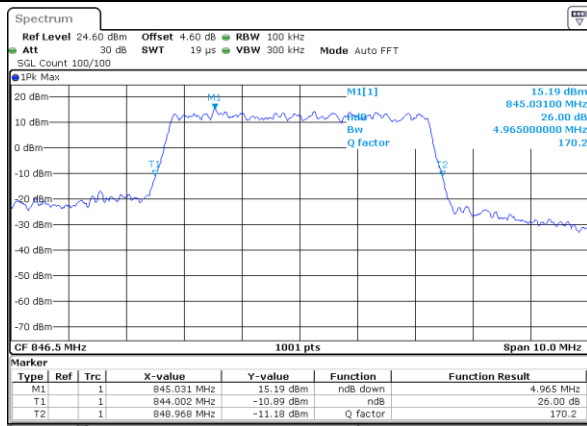
Date: 27 NOV 2019 15:48:22

Middle Channel / 5MHz / 16QAM



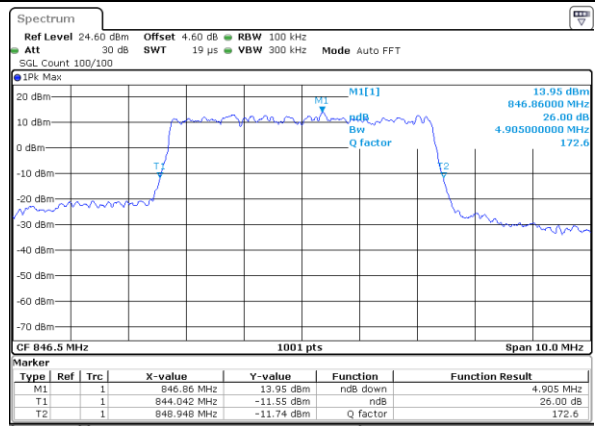
Date: 27 NOV 2019 15:48:32

Highest Channel / 5MHz / QPSK



Date: 27 NOV 2019 15:50:50

Highest Channel / 5MHz / 16QAM

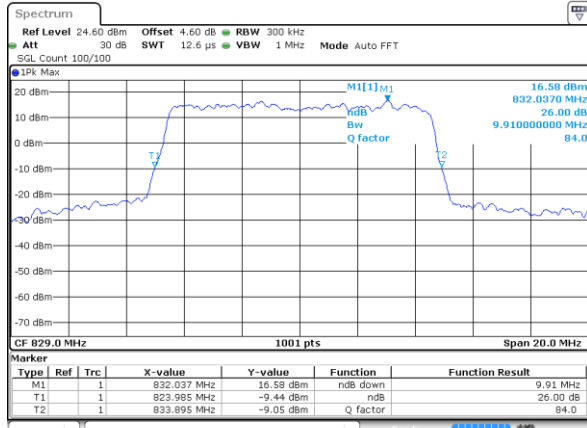


Date: 27 NOV 2019 15:51:00



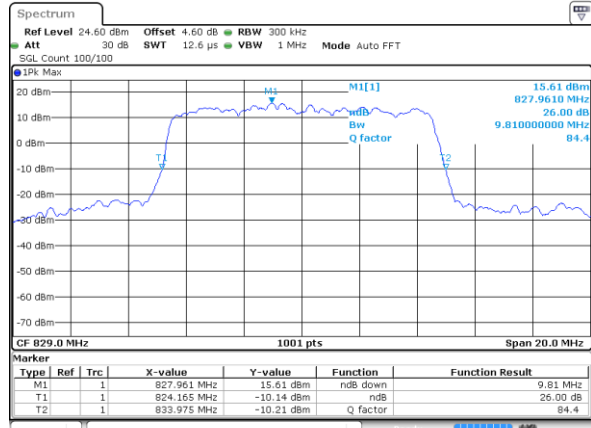
LTE Band 5

Lowest Channel / 10MHz / QPSK



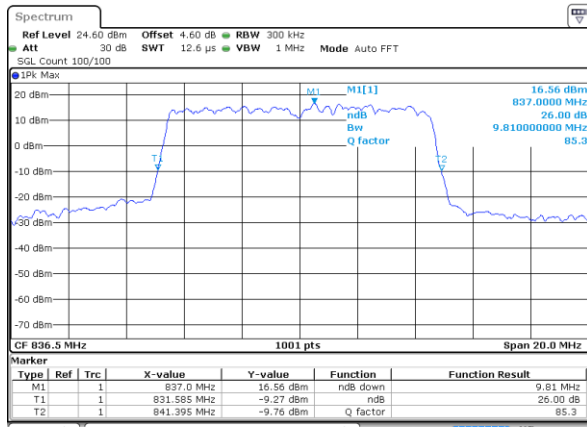
Date: 27 NOV 2019 15:53:19

Lowest Channel / 10MHz / 16QAM



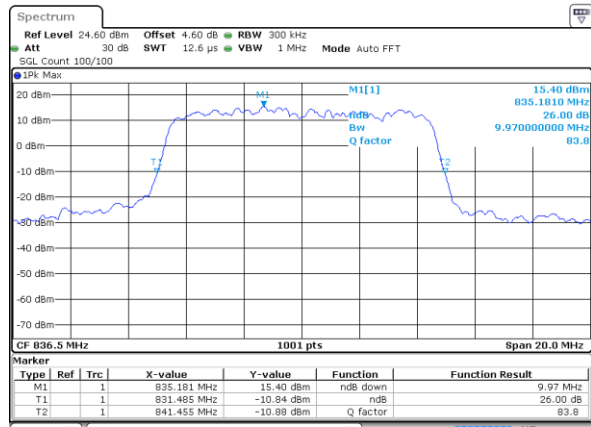
Date: 27 NOV 2019 15:53:29

Middle Channel / 10MHz / QPSK



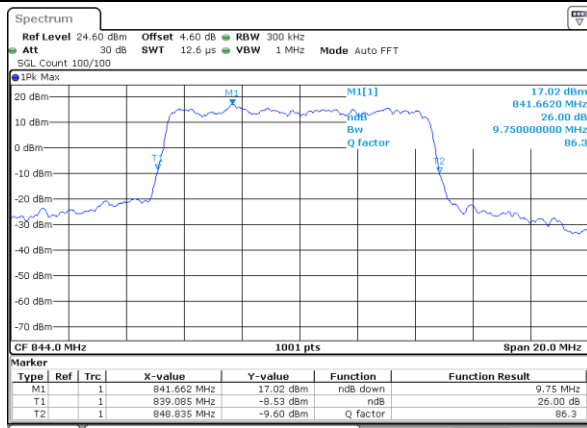
Date: 27 NOV 2019 15:55:48

Middle Channel / 10MHz / 16QAM



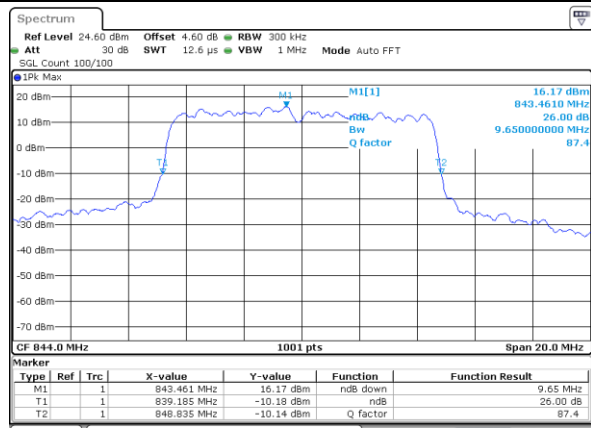
Date: 27 NOV 2019 15:55:58

Highest Channel / 10MHz / QPSK



Date: 27 NOV 2019 15:56:17

Highest Channel / 10MHz / 16QAM



Date: 27 NOV 2019 15:56:27

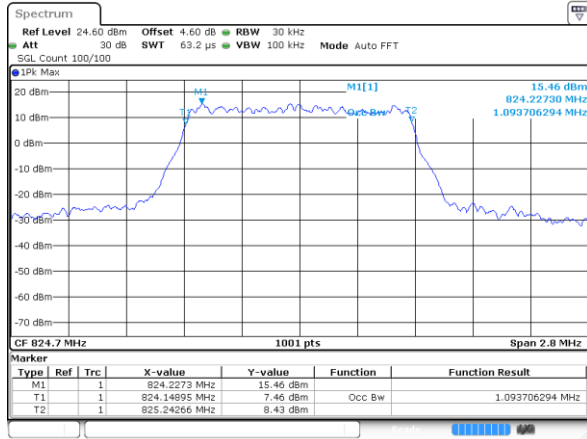
**Occupied Bandwidth**

Mode	LTE Band 5 : 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	1.094	1.088	2.715	2.733	4.496	4.486	9.071	8.971	-	-	-	-
Middle CH	1.091	1.085	2.715	2.727	4.486	4.496	9.031	8.991	-	-	-	-
Highest CH	1.091	1.091	2.709	2.703	4.486	4.486	8.971	8.971	-	-	-	-

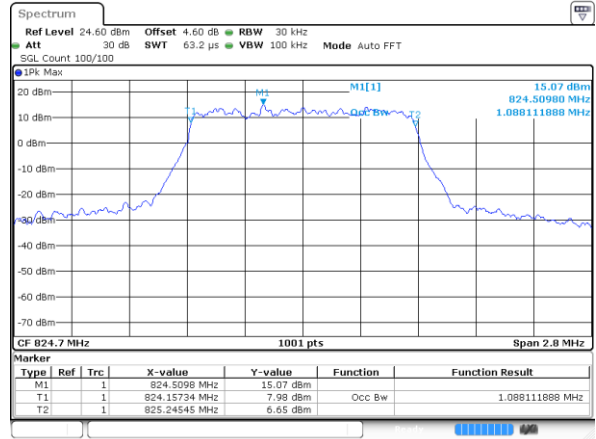


LTE Band 5

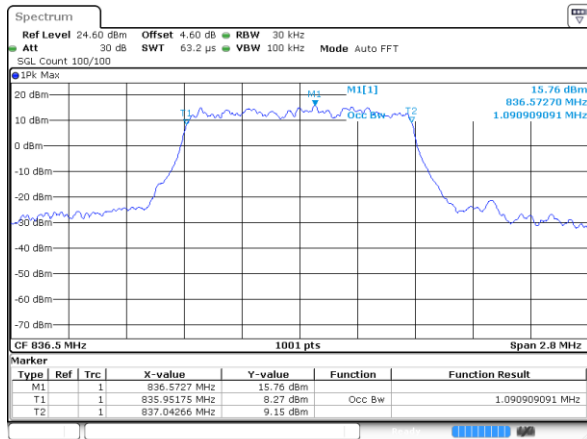
Lowest Channel / 1.4MHz / QPSK



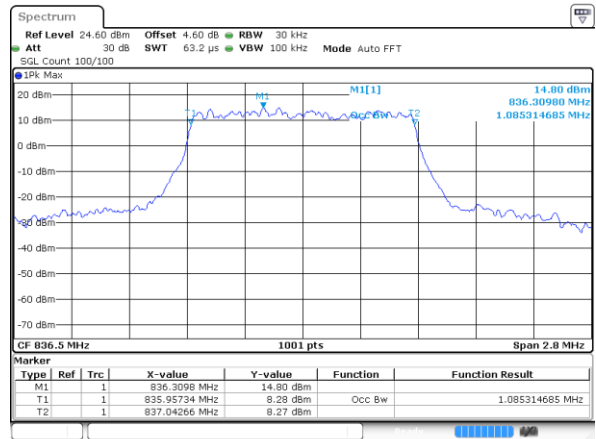
Lowest Channel / 1.4MHz / 16QAM



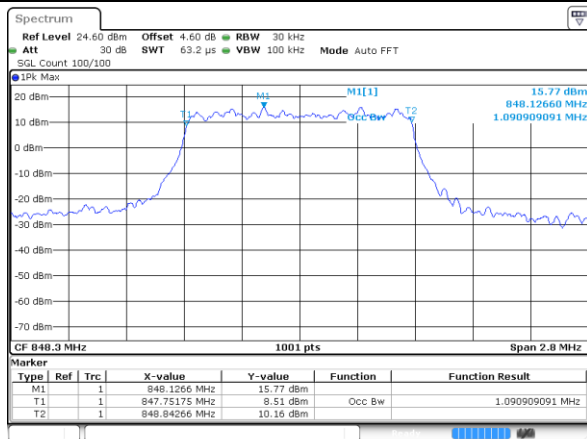
Middle Channel / 1.4MHz / QPSK



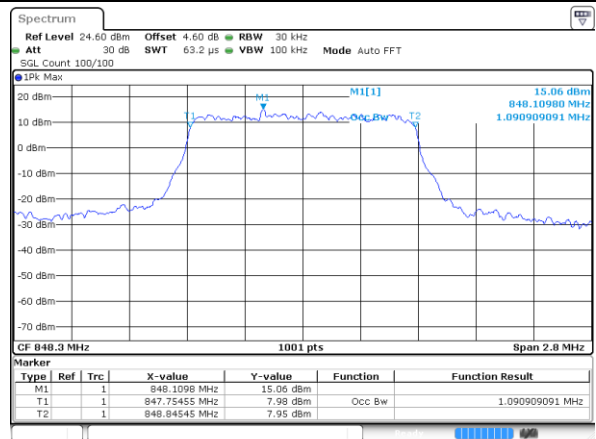
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



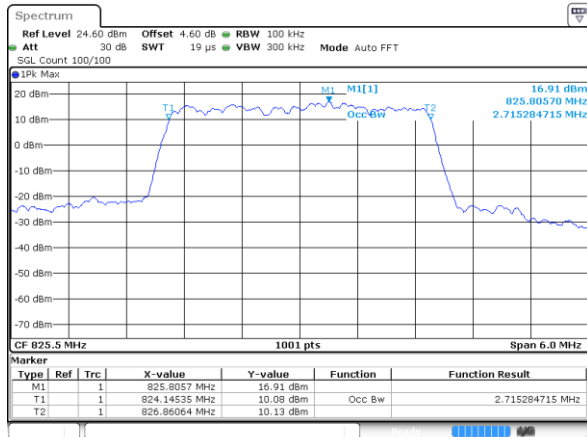
Highest Channel / 1.4MHz / 16QAM



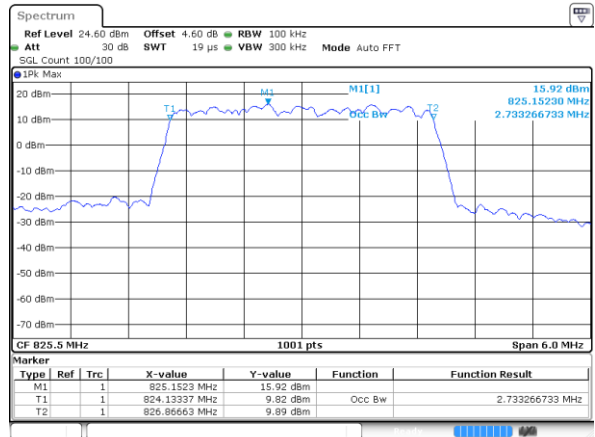


LTE Band 5

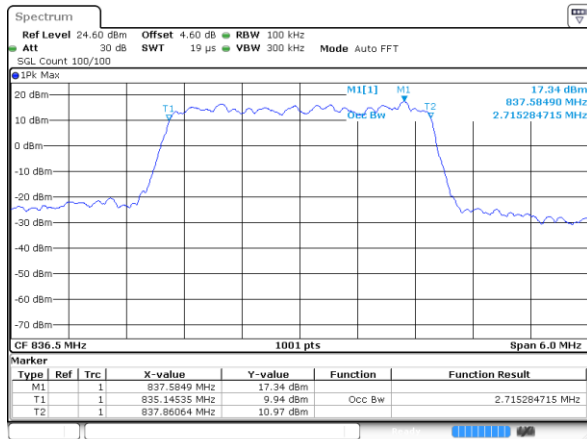
Lowest Channel / 3MHz / QPSK



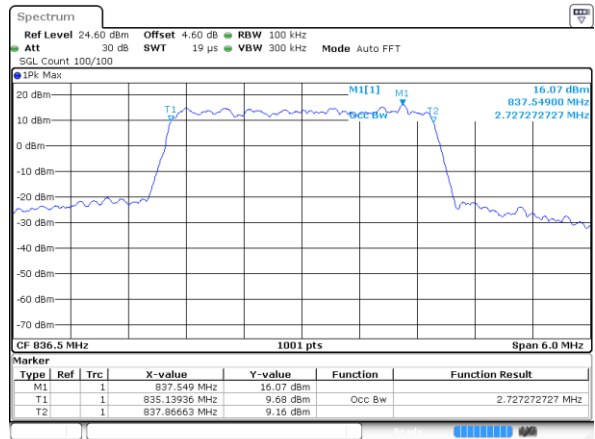
Lowest Channel / 3MHz / 16QAM



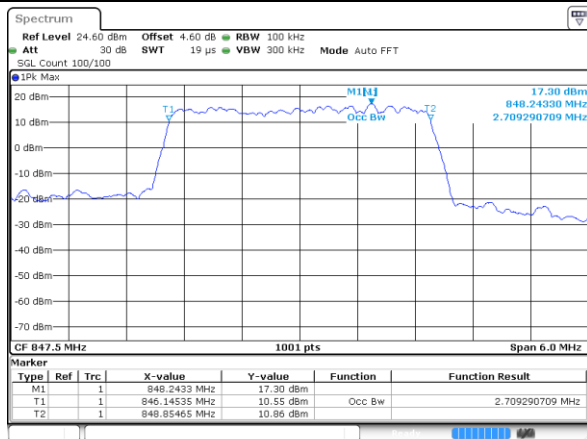
Middle Channel / 3MHz / QPSK



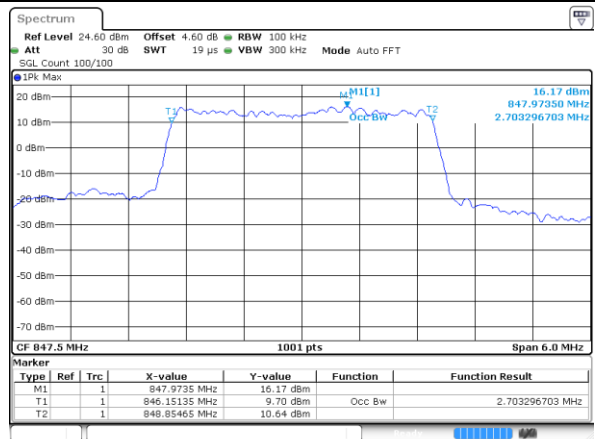
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



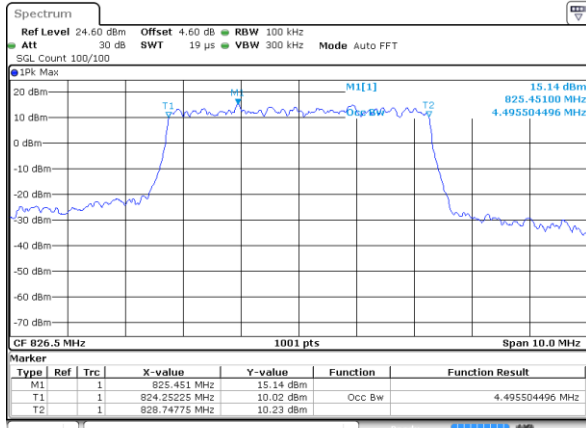
Highest Channel / 3MHz / 16QAM





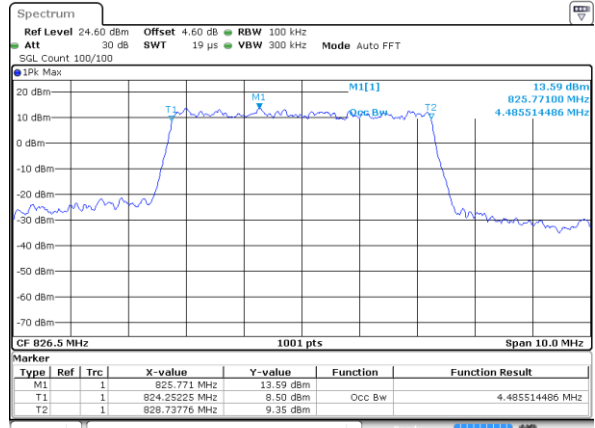
LTE Band 5

Lowest Channel / 5MHz / QPSK



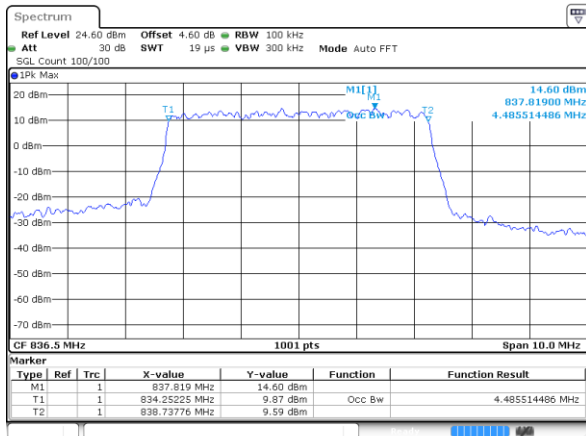
Date: 27 NOV 2019 15:45:32

Lowest Channel / 5MHz / 16QAM



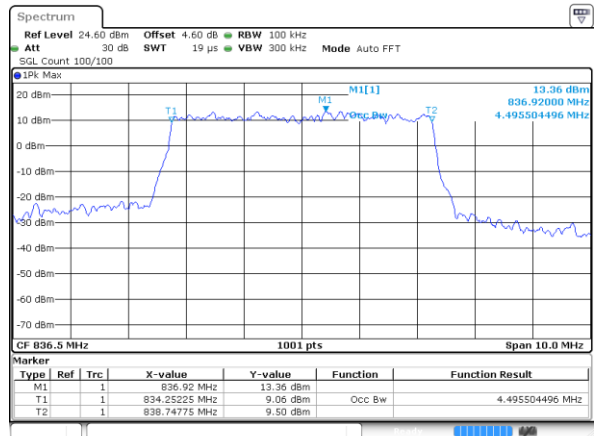
Date: 27 NOV 2019 15:45:43

Middle Channel / 5MHz / QPSK



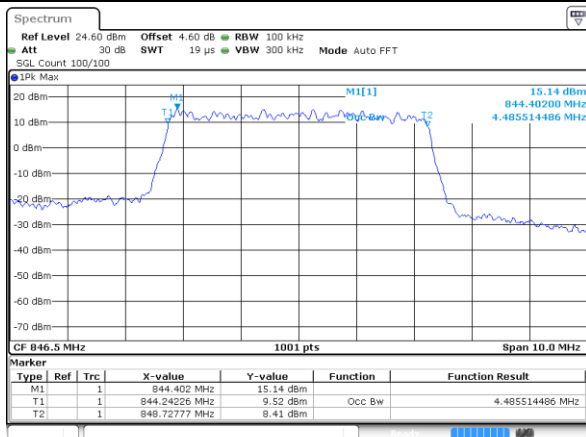
Date: 27 NOV 2019 15:48:02

Middle Channel / 5MHz / 16QAM



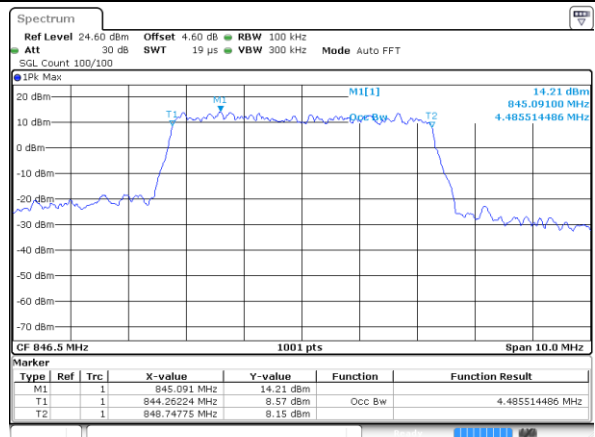
Date: 27 NOV 2019 15:48:12

Highest Channel / 5MHz / QPSK



Date: 27 NOV 2019 15:50:30

Highest Channel / 5MHz / 16QAM

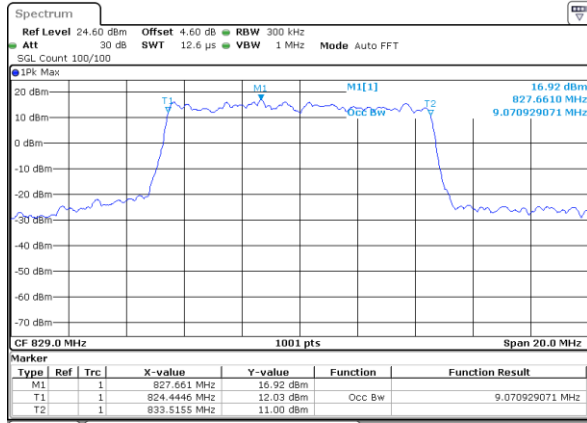


Date: 27 NOV 2019 15:50:40



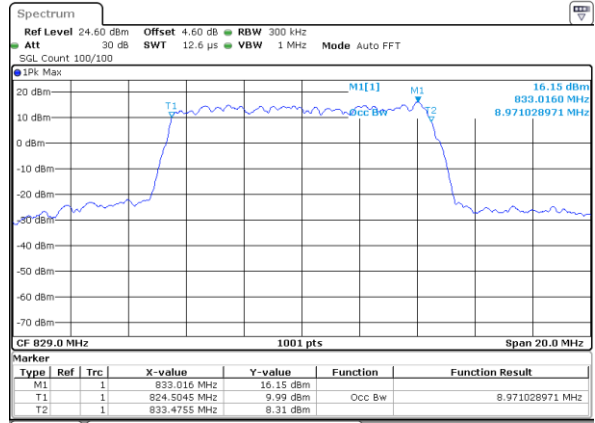
LTE Band 5

Lowest Channel / 10MHz / QPSK



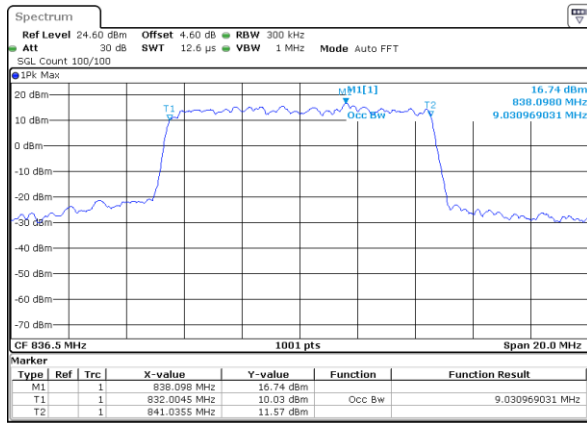
Date: 27 NOV 2019 15:52:59

Lowest Channel / 10MHz / 16QAM



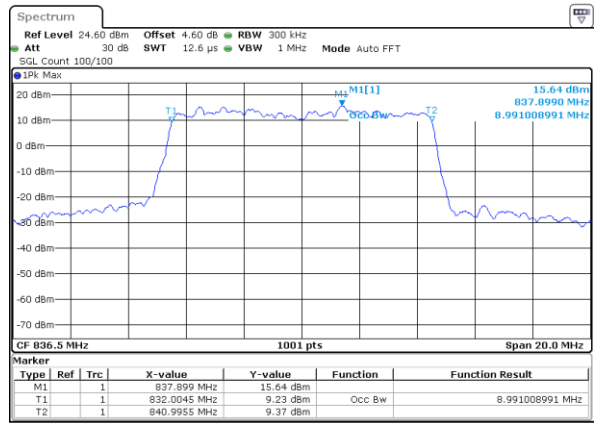
Date: 27 NOV 2019 15:53:09

Middle Channel / 10MHz / QPSK



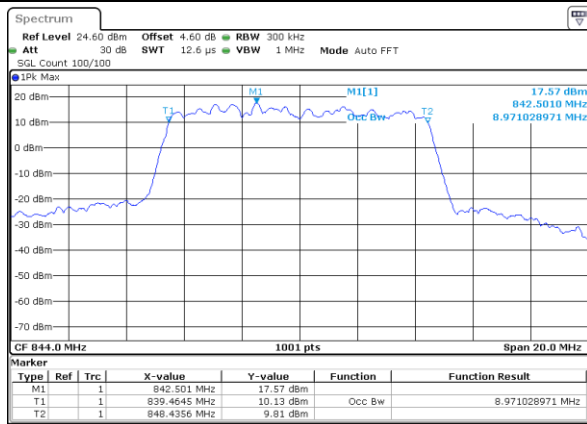
Date: 27 NOV 2019 15:55:28

Middle Channel / 10MHz / 16QAM



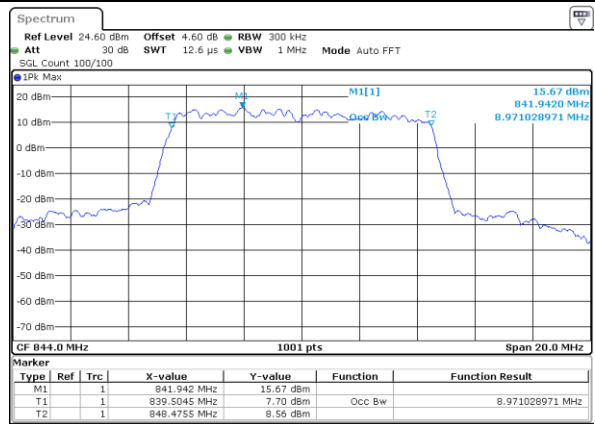
Date: 27 NOV 2019 15:55:38

Highest Channel / 10MHz / QPSK

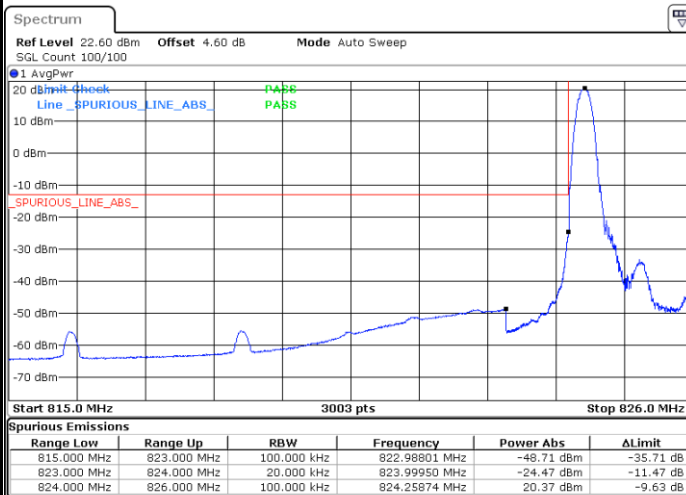
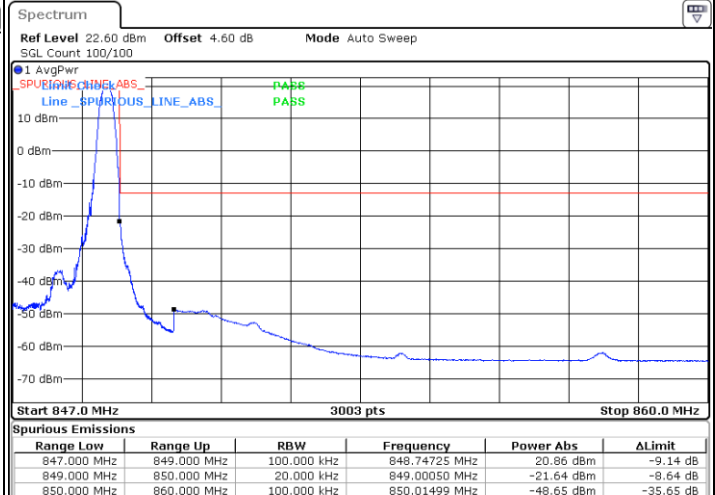
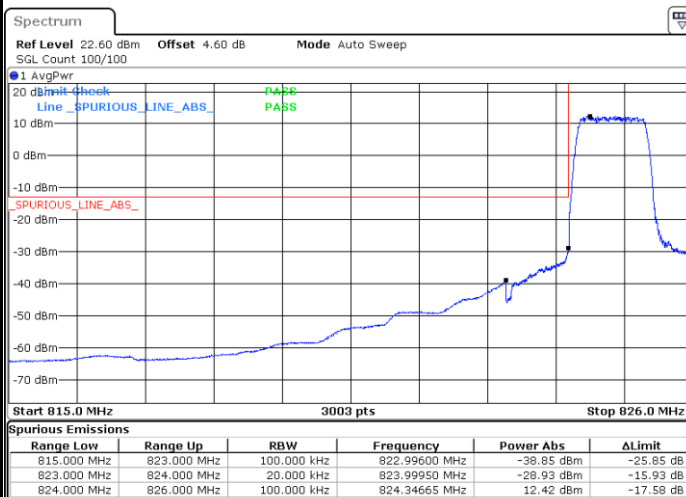
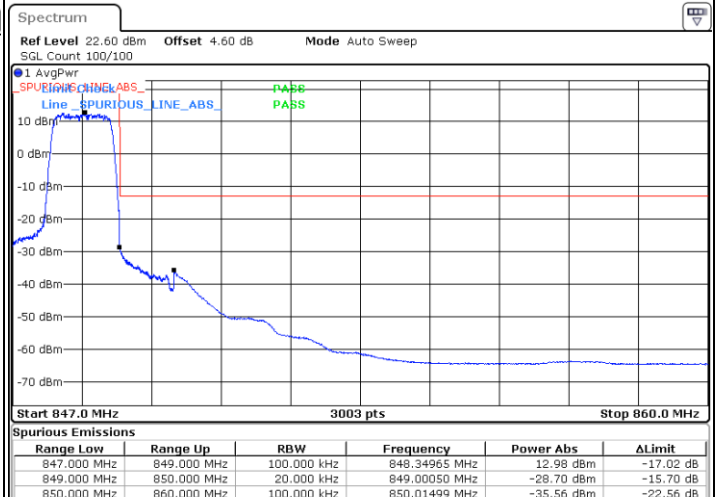


Date: 27 NOV 2019 15:57:57

Highest Channel / 10MHz / 16QAM



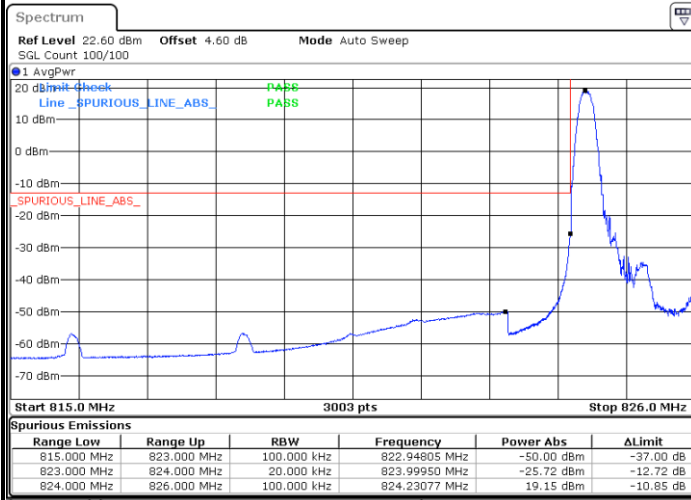
Date: 27 NOV 2019 15:58:07

**Conducted Band Edge****LTE Band 5 / 1.4MHz / QPSK****Lowest Band Edge / 1RB****Highest Band Edge / 1RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

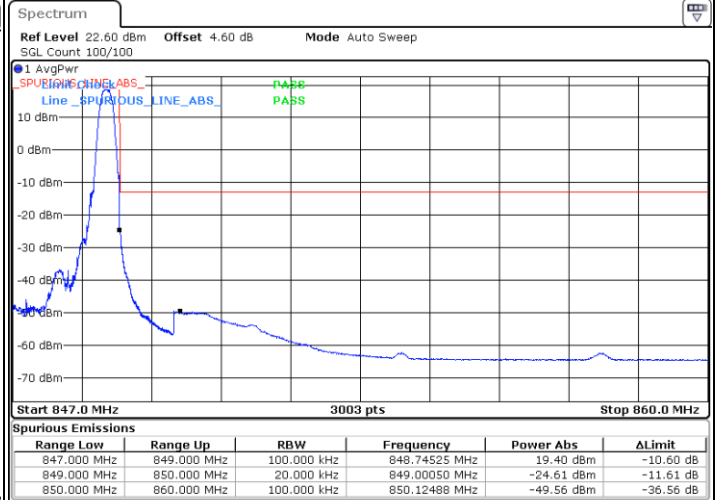


LTE Band 5 / 1.4MHz / 16QAM

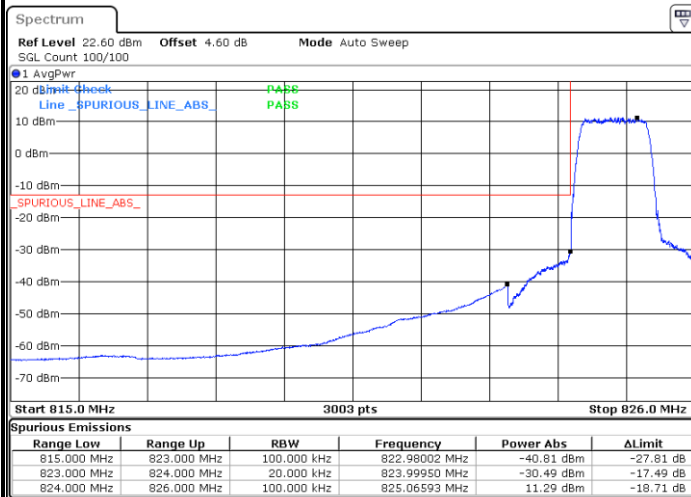
Lowest Band Edge / 1 RB



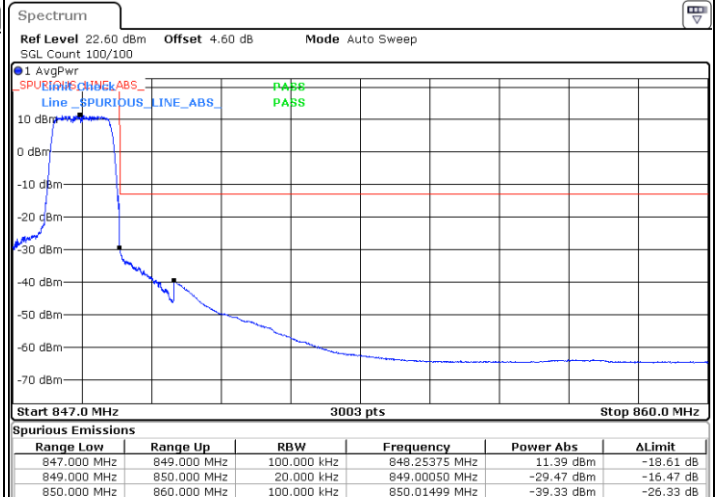
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB



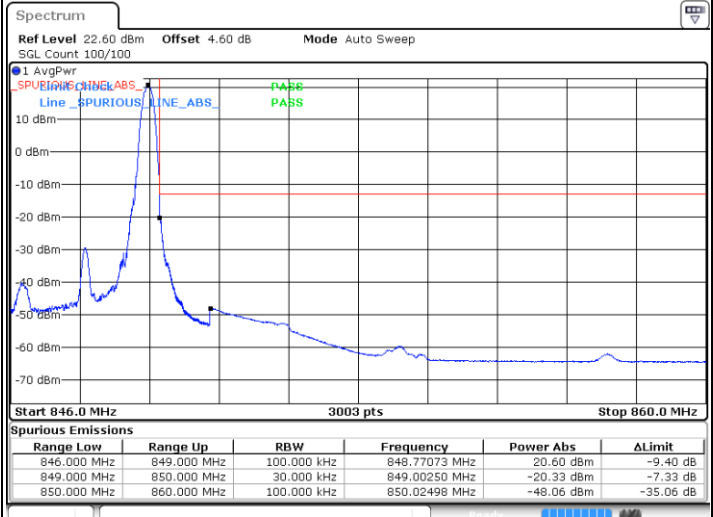


LTE Band 5 / 3MHz / QPSK

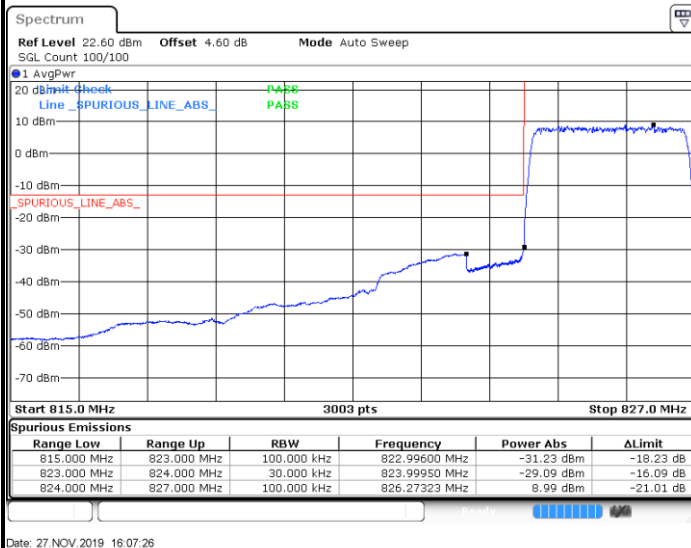
Lowest Band Edge / 1RB



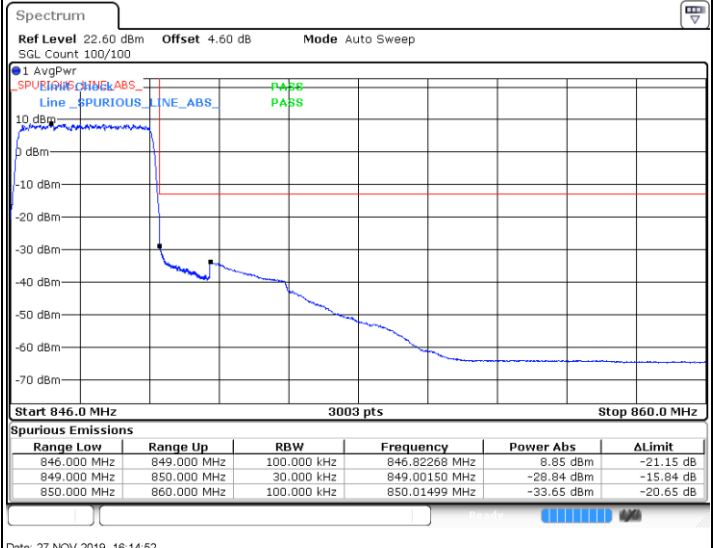
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



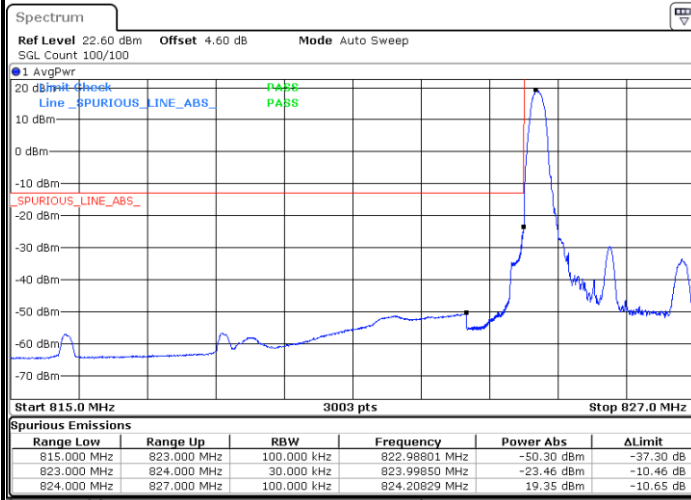
Highest Band Edge / Full RB



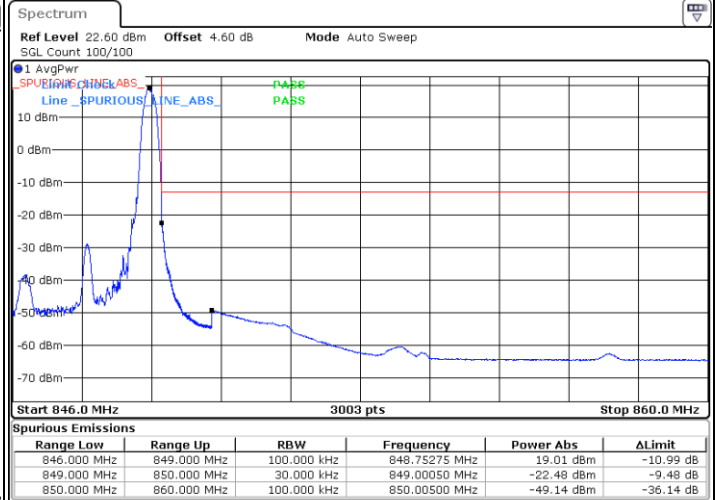


LTE Band 5 / 3MHz / 16QAM

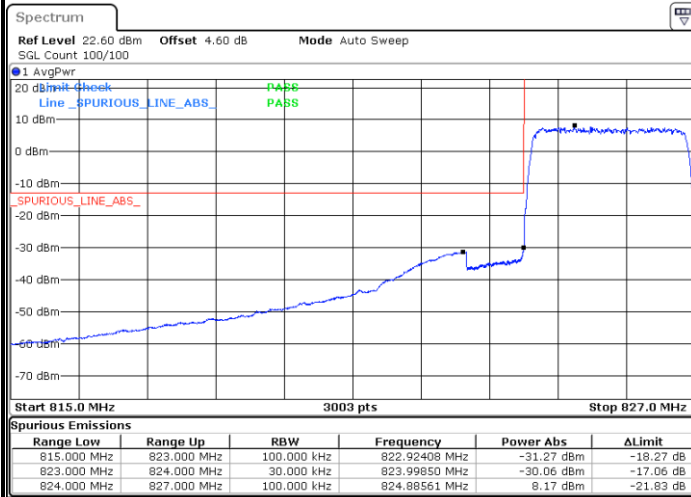
Lowest Band Edge / 1 RB



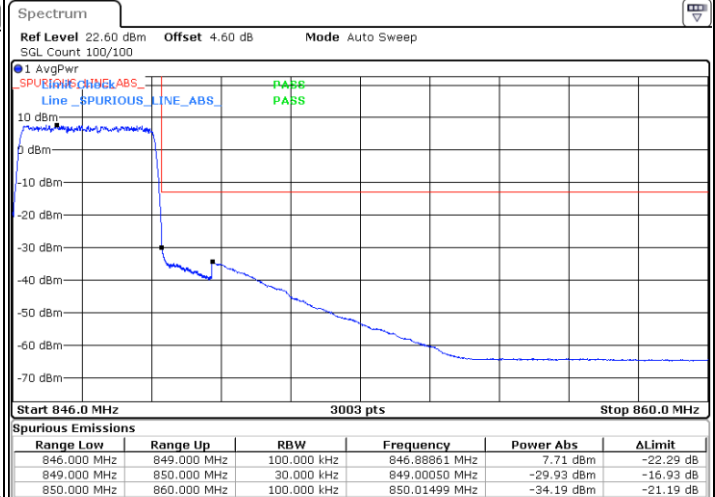
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



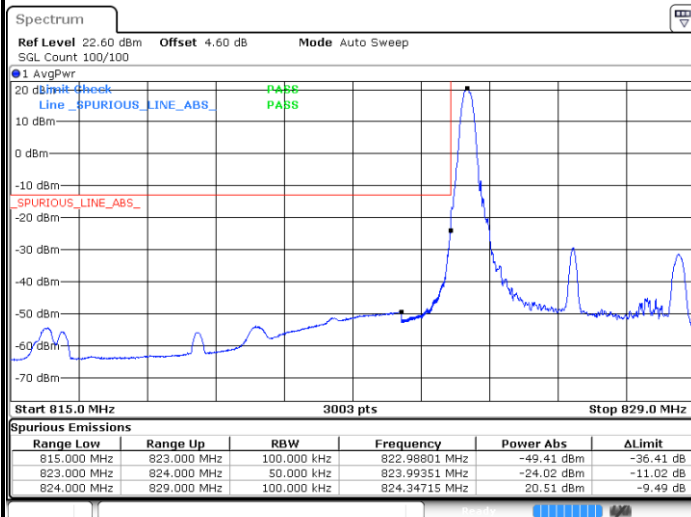
Highest Band Edge / Full RB



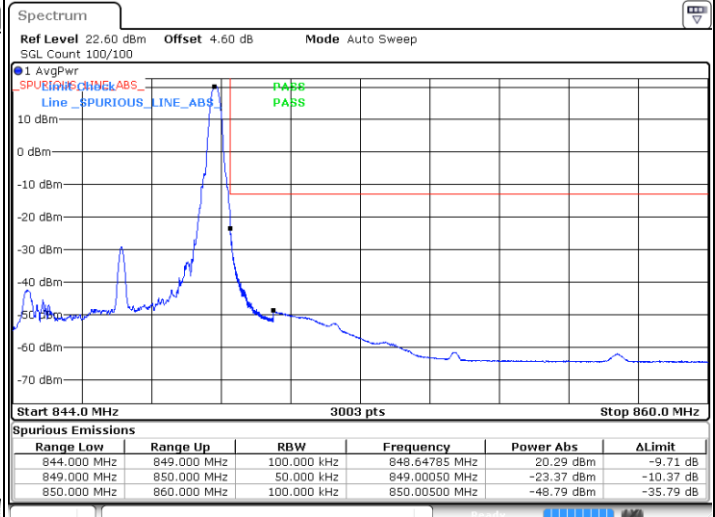


LTE Band 5 / 5MHz / QPSK

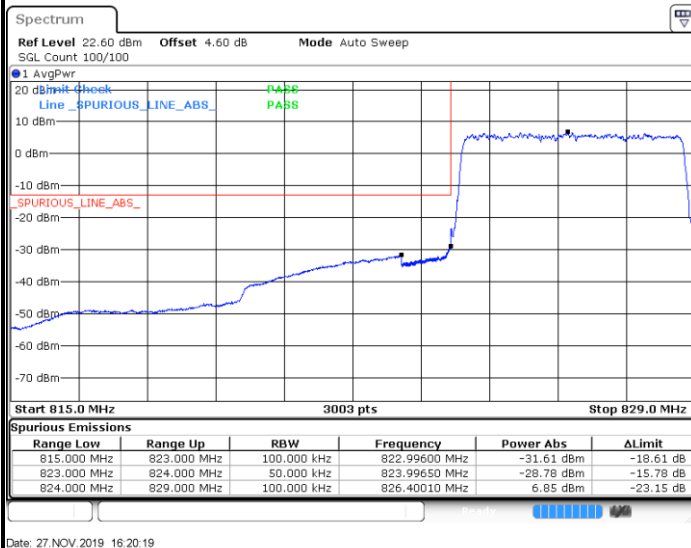
Lowest Band Edge / 1 RB



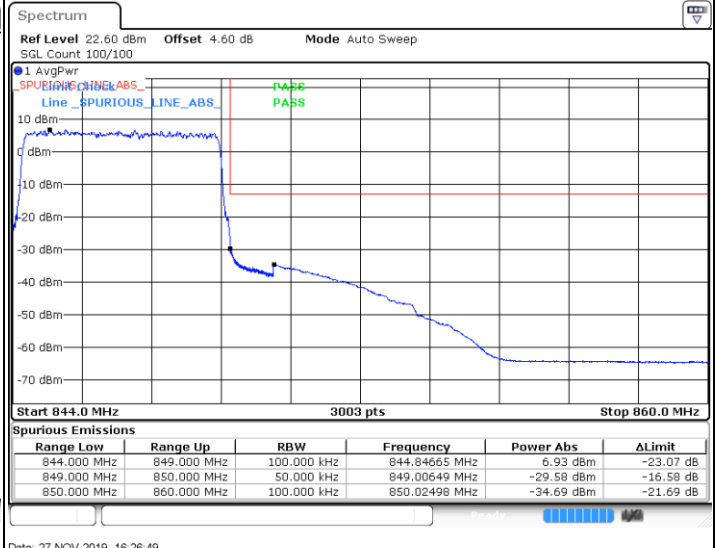
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



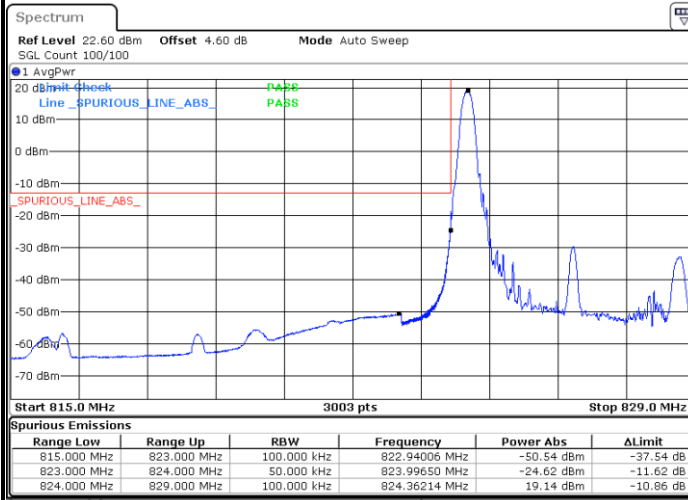
Highest Band Edge / Full RB



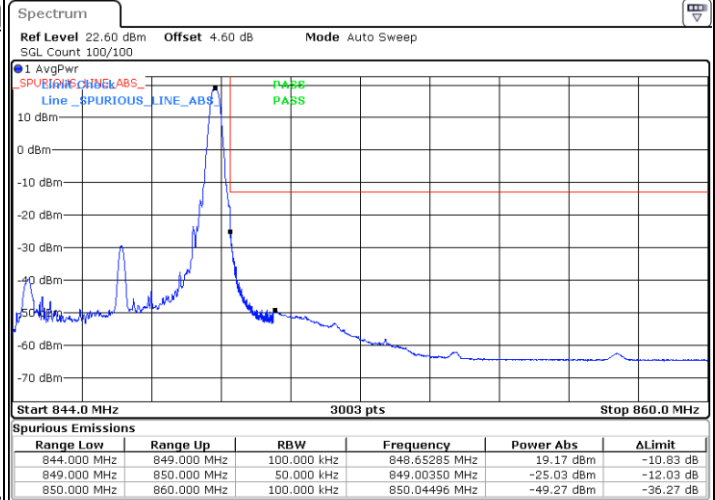


LTE Band 5 / 5MHz / 16QAM

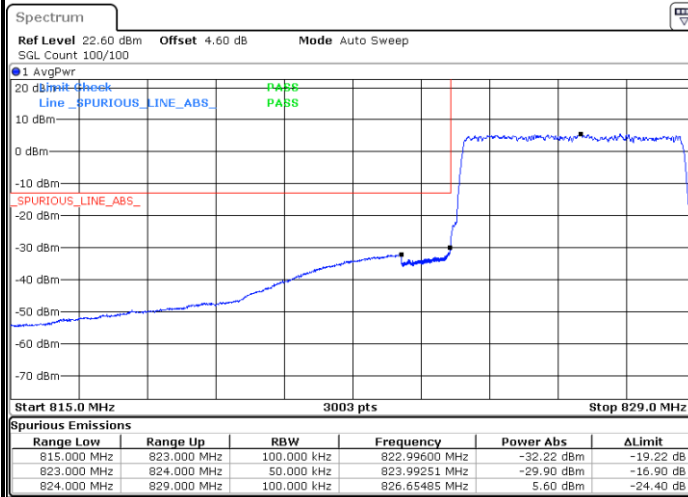
Lowest Band Edge / 1RB



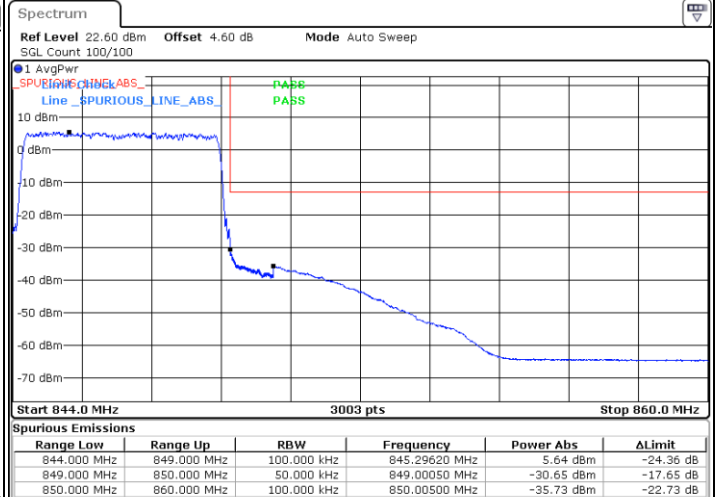
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



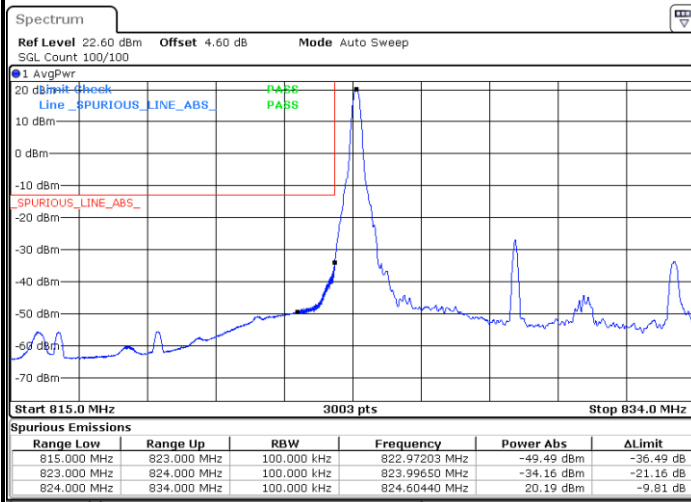
Highest Band Edge / Full RB



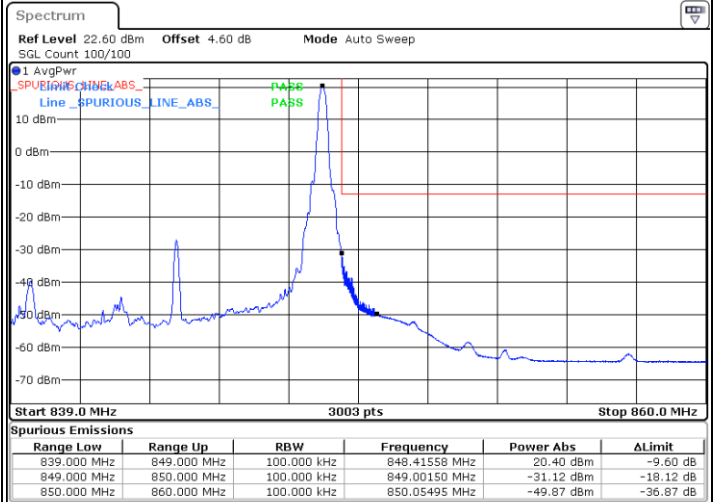


LTE Band 5 / 10MHz / QPSK

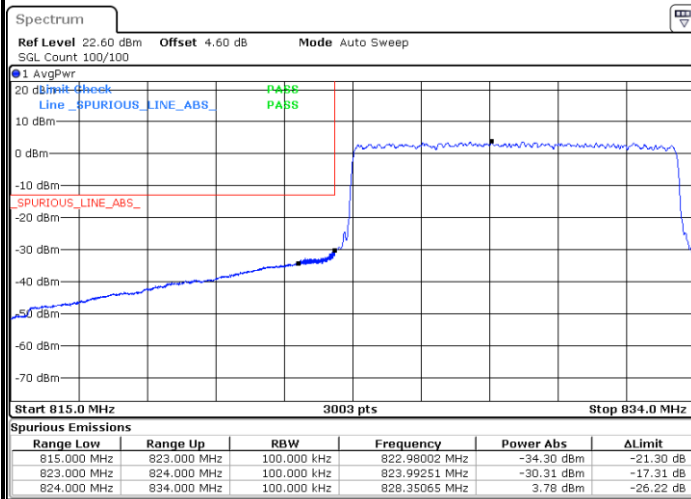
Lowest Band Edge / 1 RB



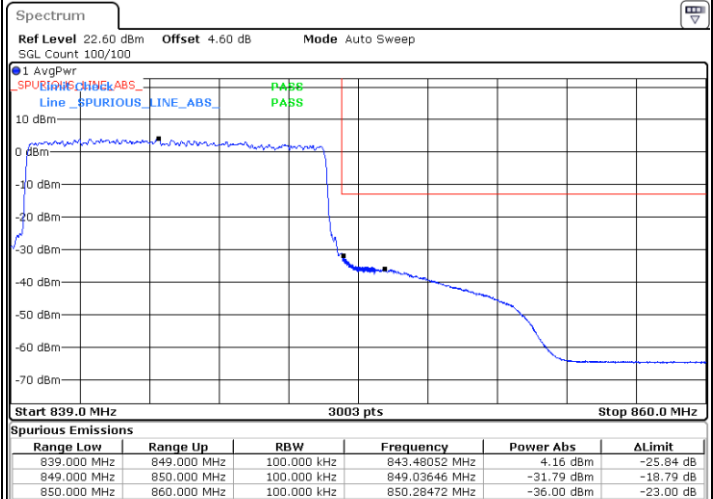
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



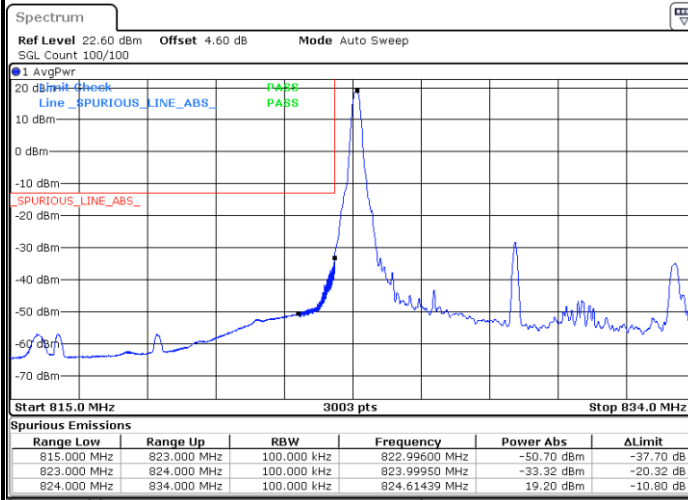
Highest Band Edge / Full RB



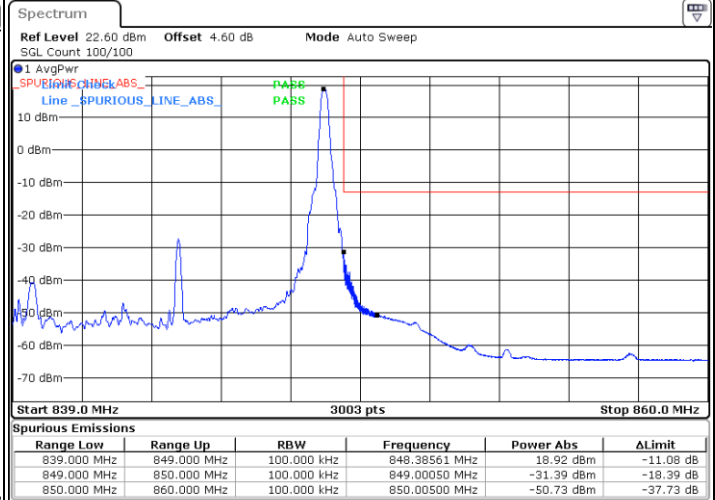


LTE Band 5 / 10MHz / 16QAM

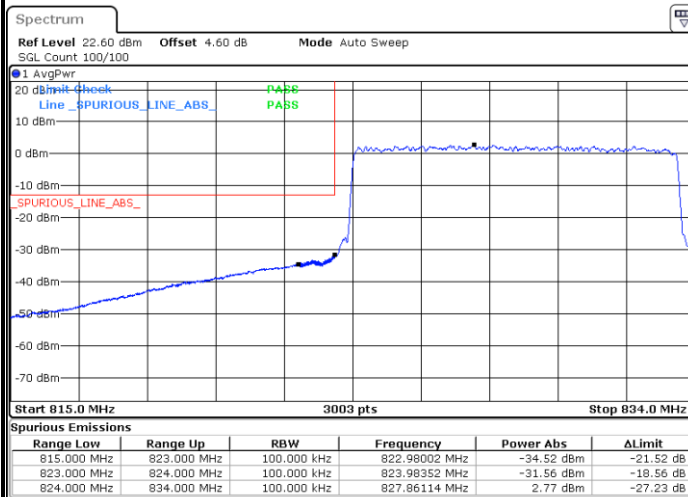
Lowest Band Edge / 1 RB



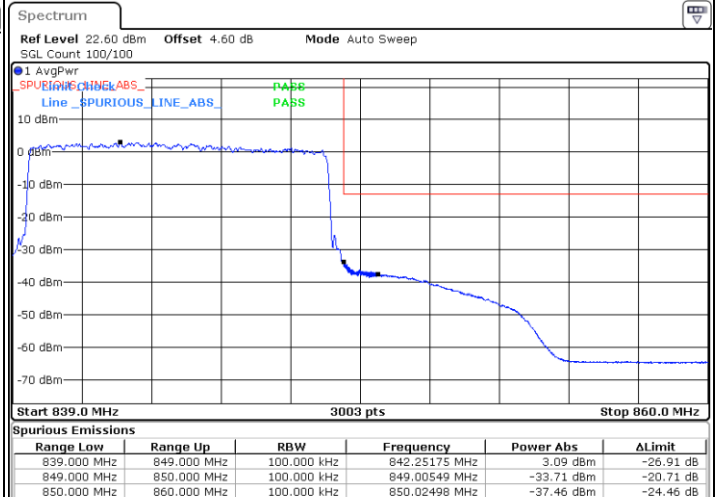
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

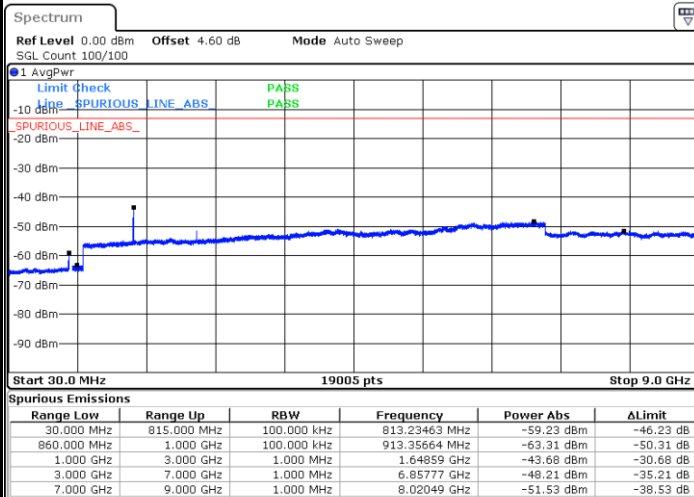




Conducted Spurious Emission

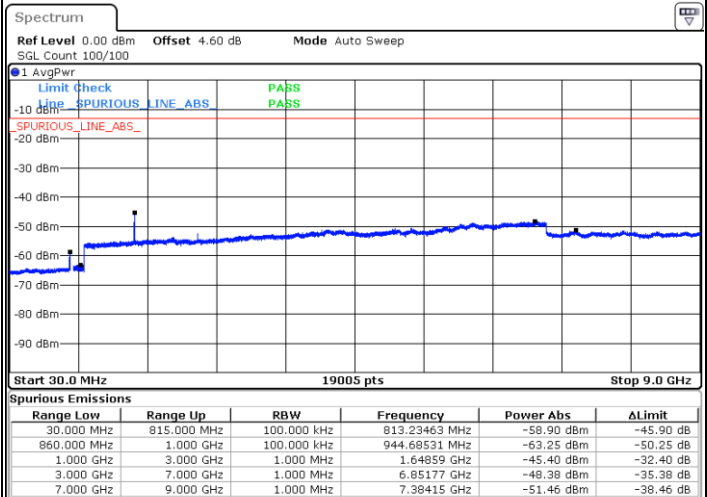
LTE Band 5 / 1.4MHz

Lowest Channel / QPSK



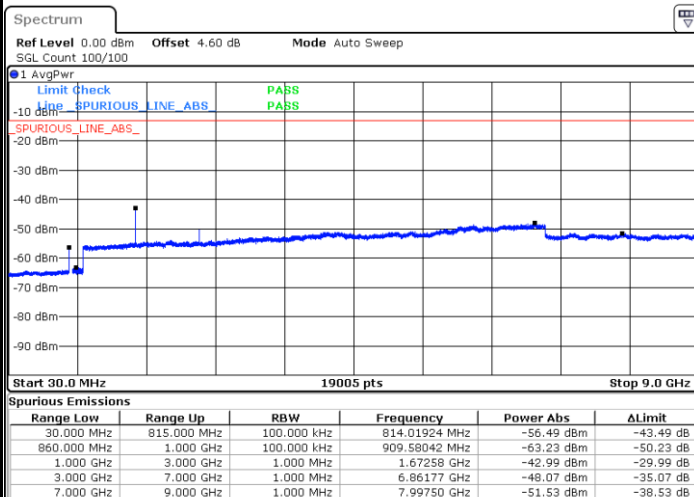
Date: 27.NOV.2019 15:22:44

Lowest Channel / 16QAM



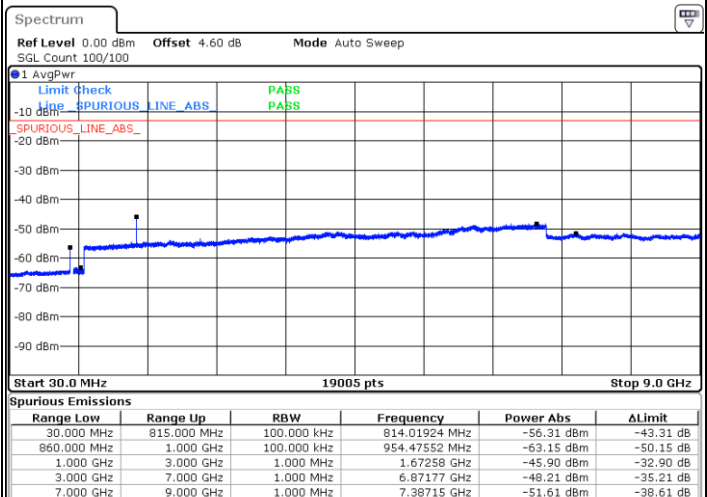
Date: 27.NOV.2019 15:23:38

Middle Channel / QPSK



Date: 27.NOV.2019 15:25:13

Middle Channel / 16QAM



Date: 27.NOV.2019 15:26:07