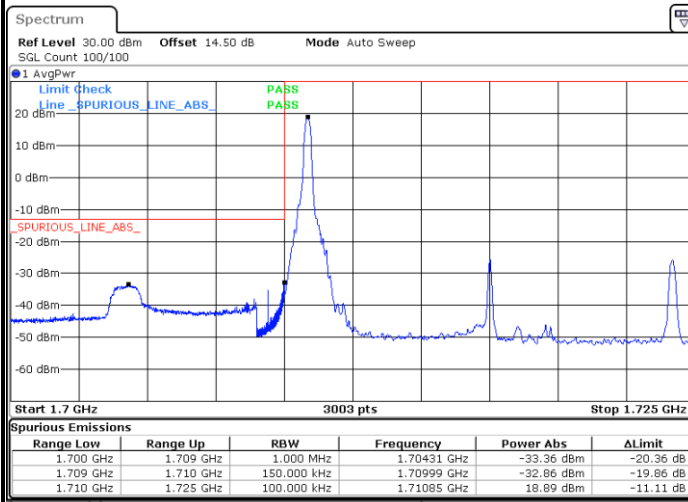


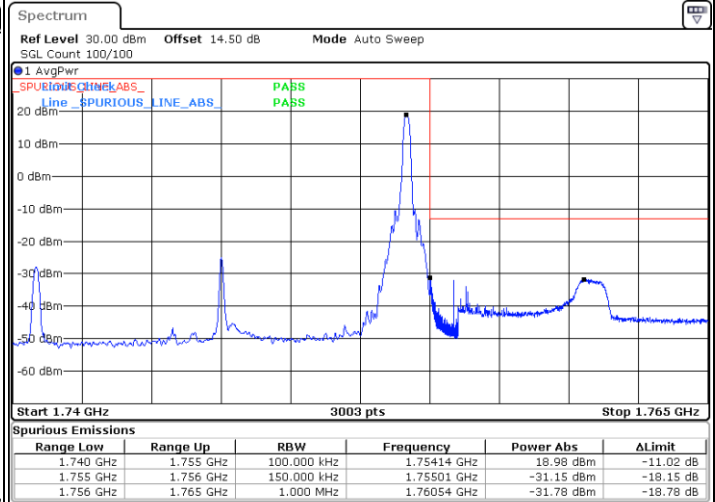


LTE Band 4 / 15MHz / 64QAM

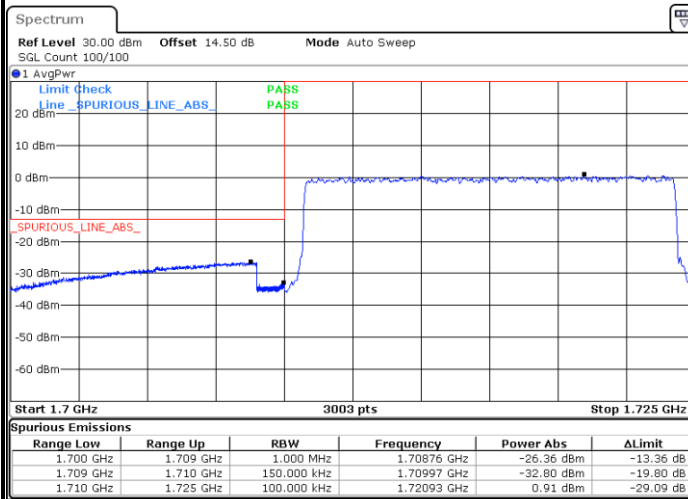
Lowest Band Edge / 1 RB



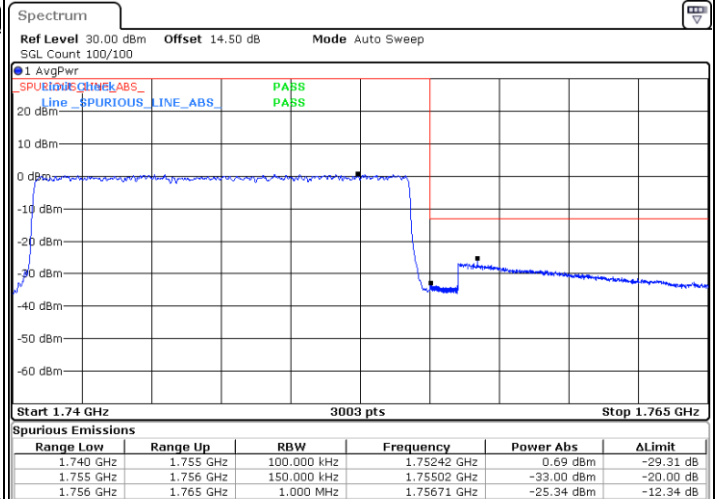
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



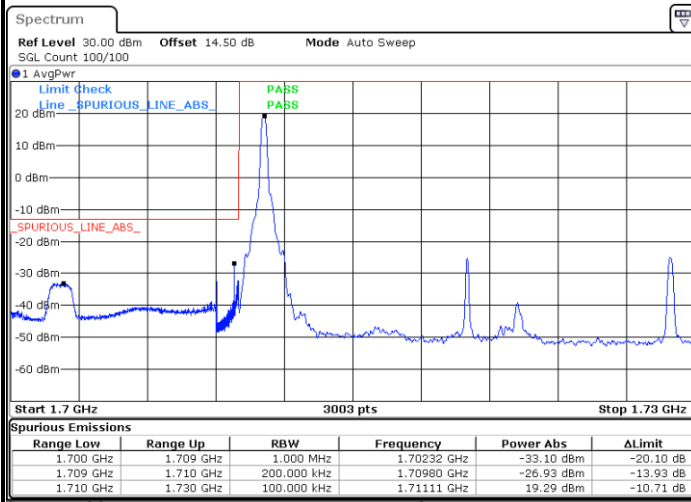
Highest Band Edge / Full RB



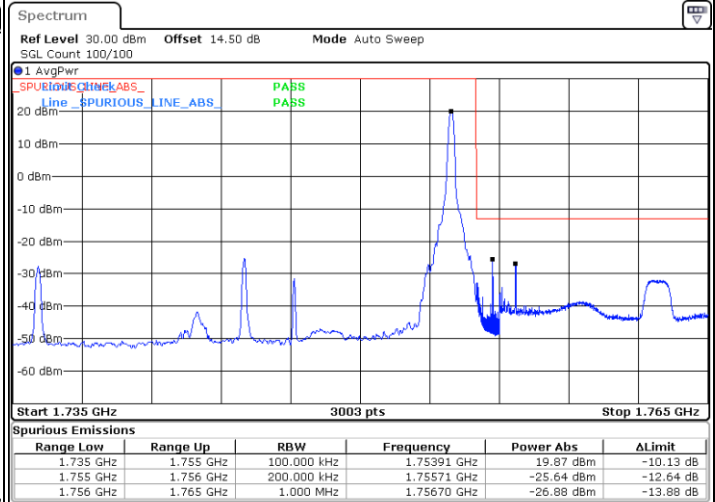


LTE Band 4 / 20MHz / QPSK

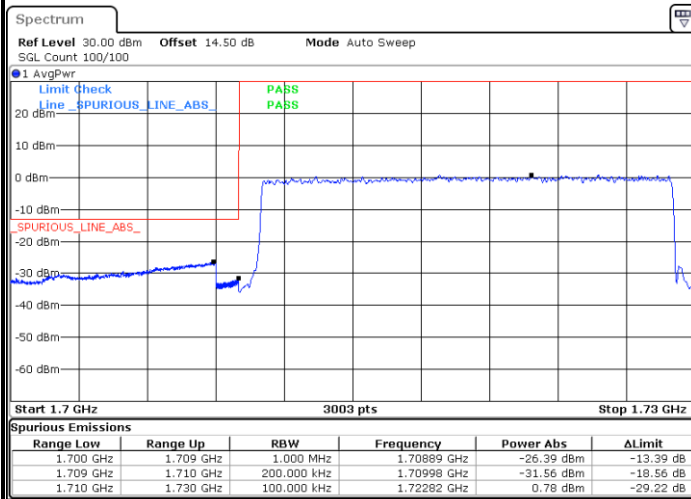
Lowest Band Edge / 1 RB



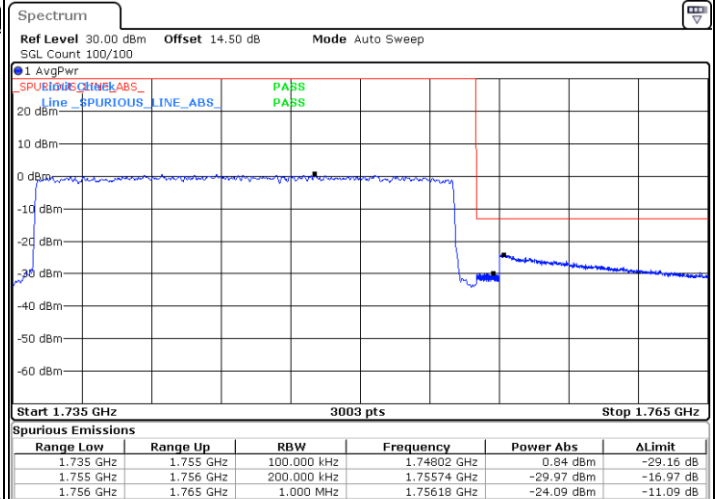
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



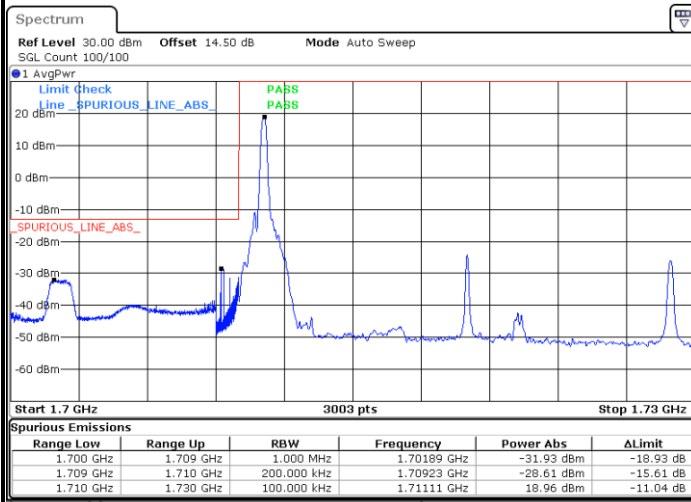
Highest Band Edge / Full RB



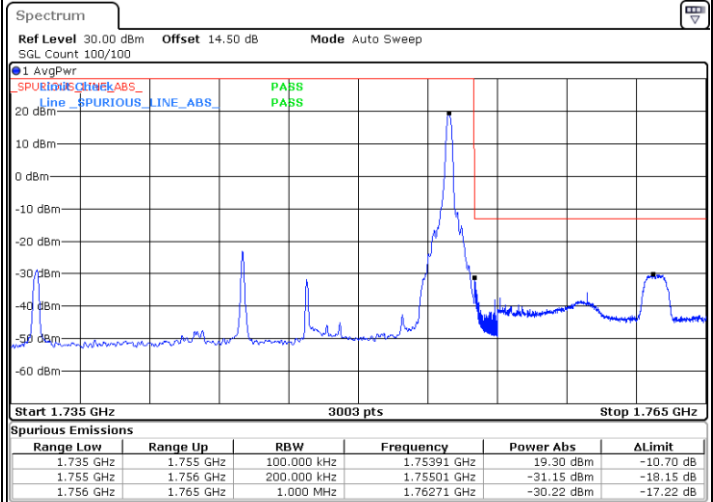


LTE Band 4 / 20MHz / 16QAM

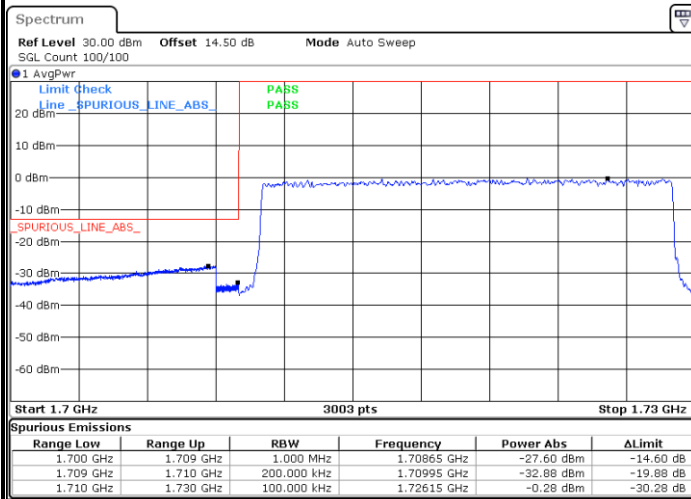
Lowest Band Edge / 1 RB



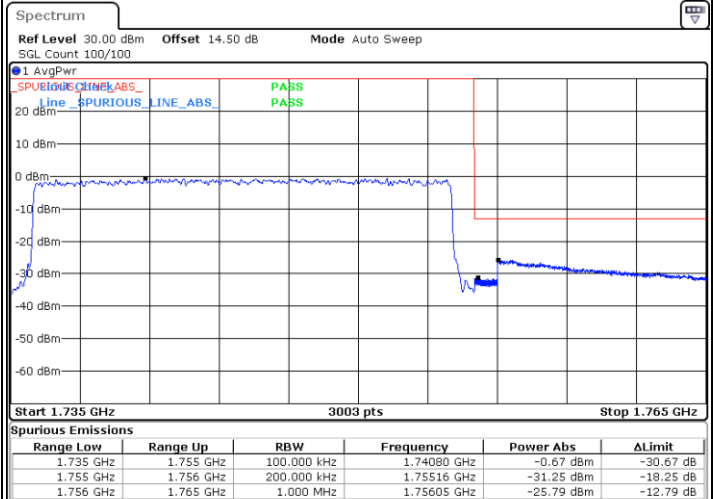
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



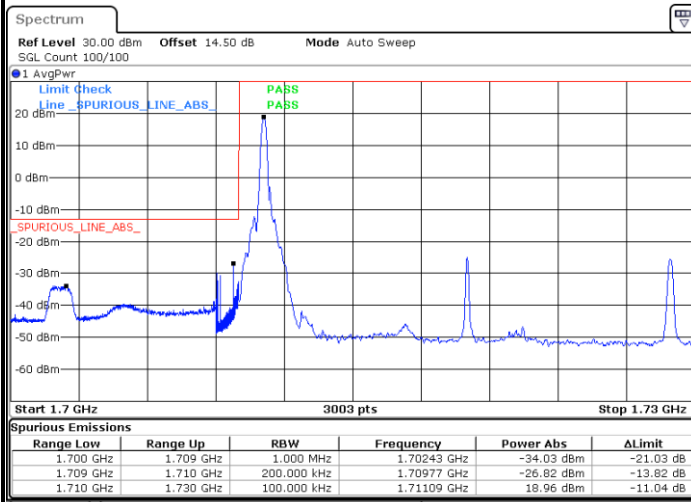
Highest Band Edge / Full RB



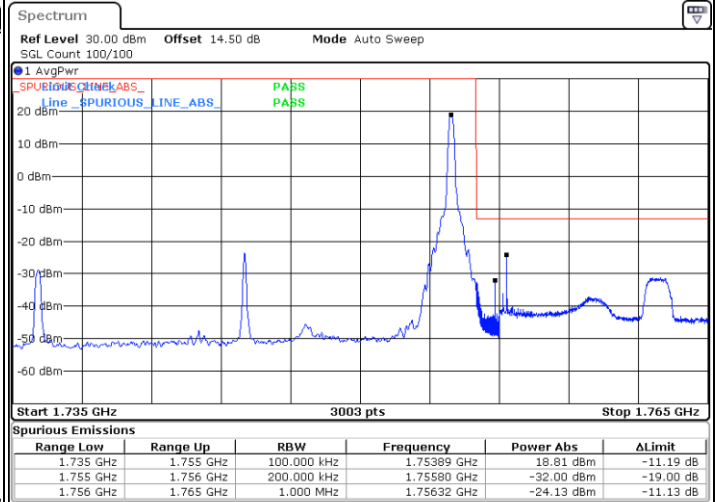


LTE Band 4 / 20MHz / 64QAM

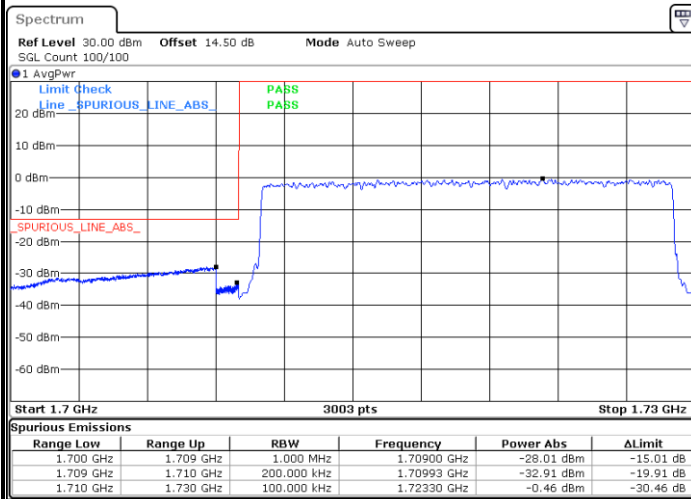
Lowest Band Edge / 1 RB



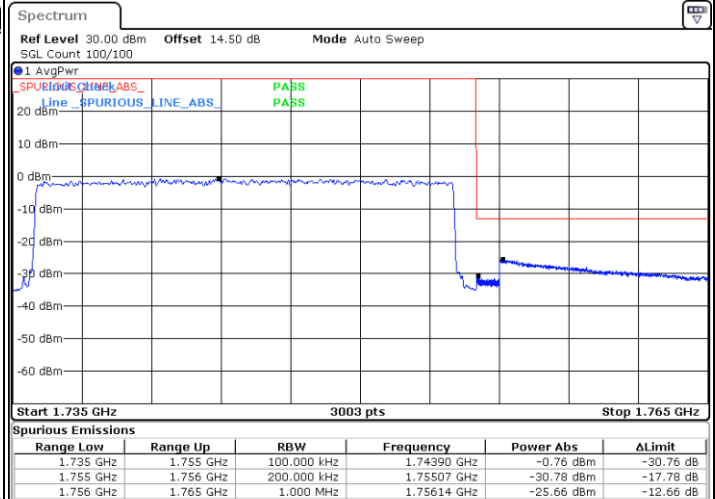
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

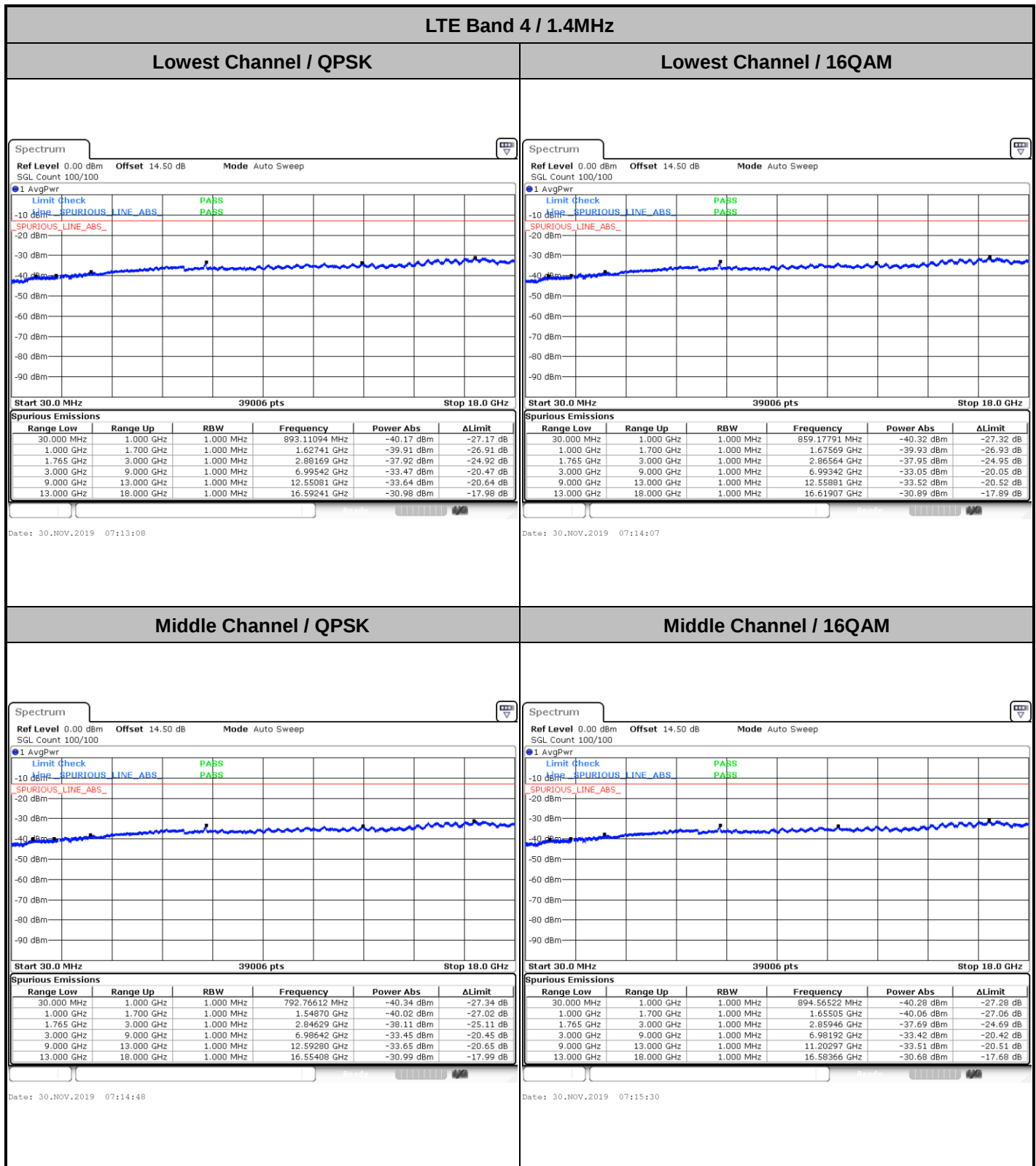


Highest Band Edge / Full RB





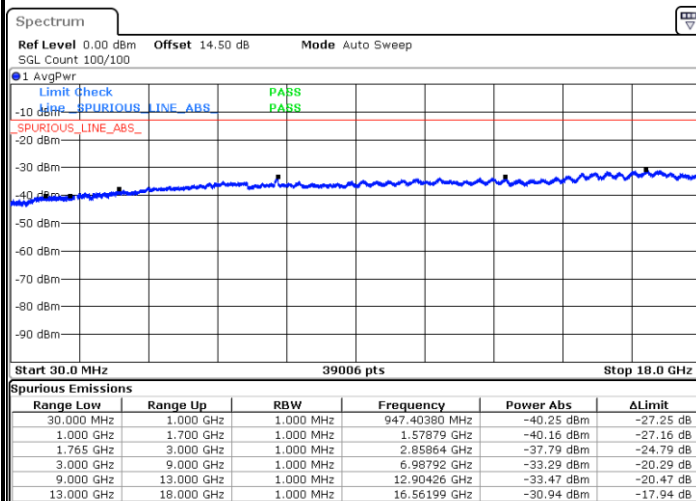
Conducted Spurious Emission





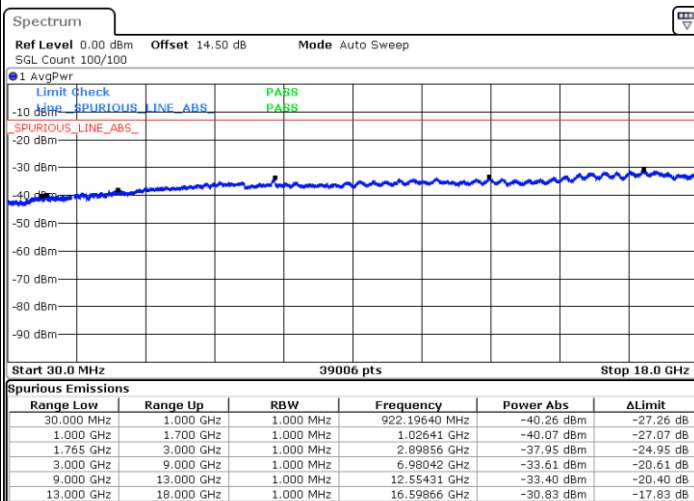
LTE Band 4 / 1.4MHz

Highest Channel / QPSK



Date: 30.NOV.2019 07:16:12

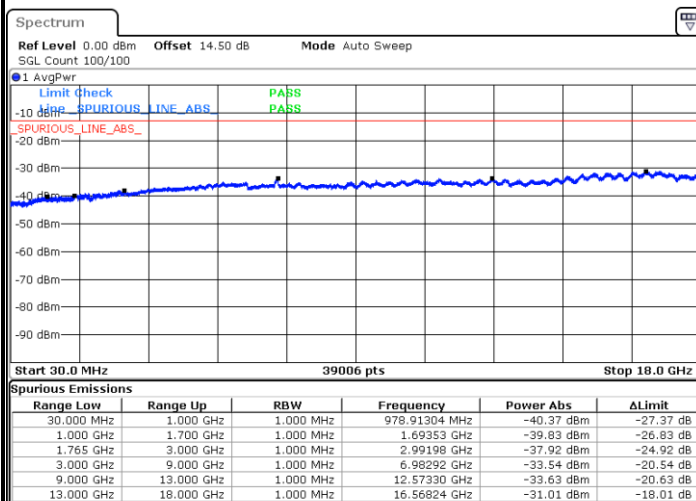
Highest Channel / 16QAM



Date: 30.NOV.2019 07:16:53

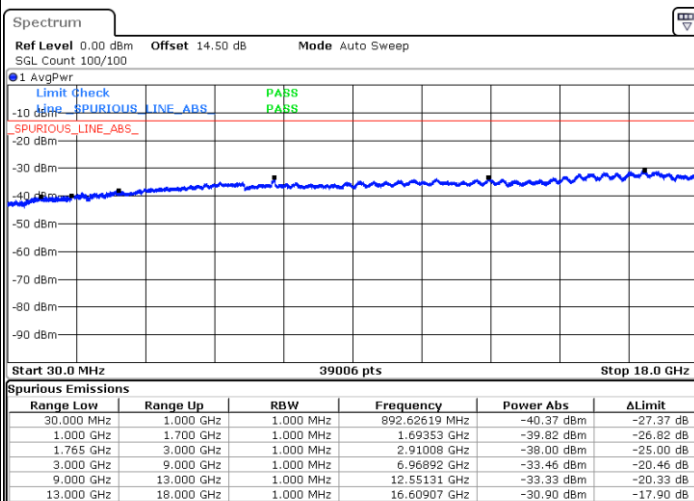
LTE Band 4 / 3MHz

Lowest Channel / QPSK



Date: 30.NOV.2019 07:17:35

Lowest Channel / 16QAM

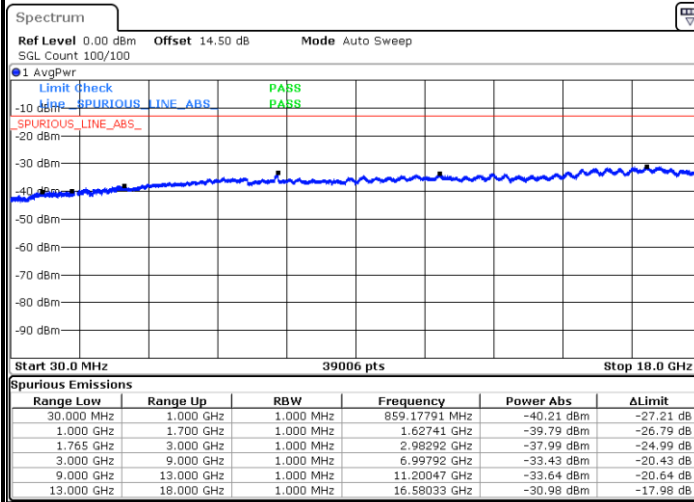


Date: 30.NOV.2019 07:18:17



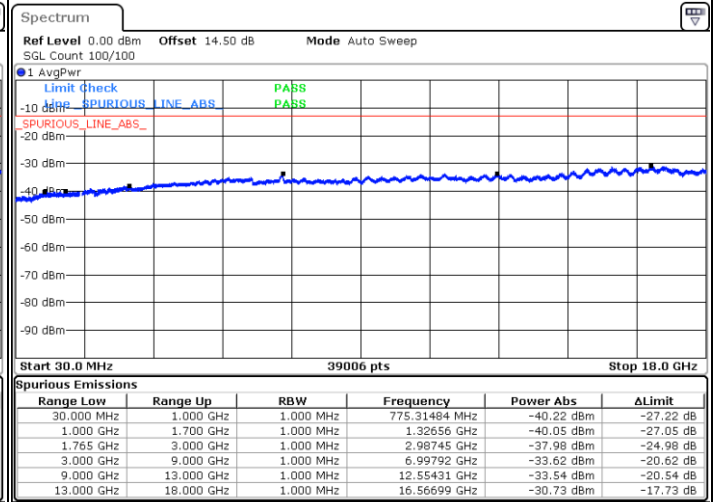
LTE Band 4 / 3MHz

Middle Channel / QPSK



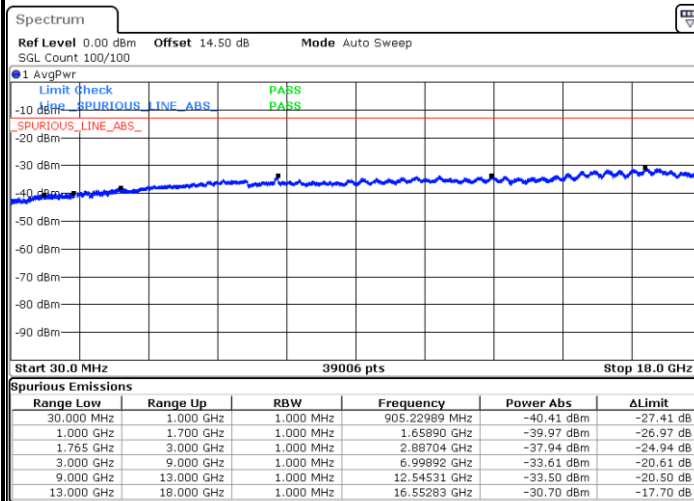
Date: 30.NOV.2019 07:18:59

Middle Channel / 16QAM



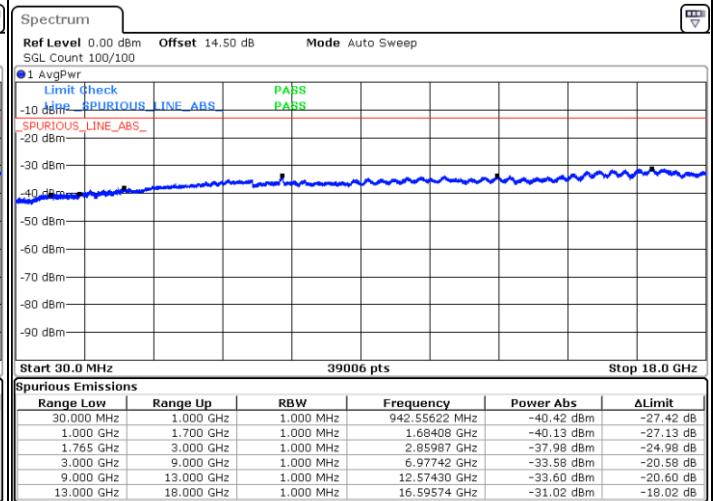
Date: 30.NOV.2019 07:19:40

Highest Channel / QPSK



Date: 30.NOV.2019 07:20:22

Highest Channel / 16QAM

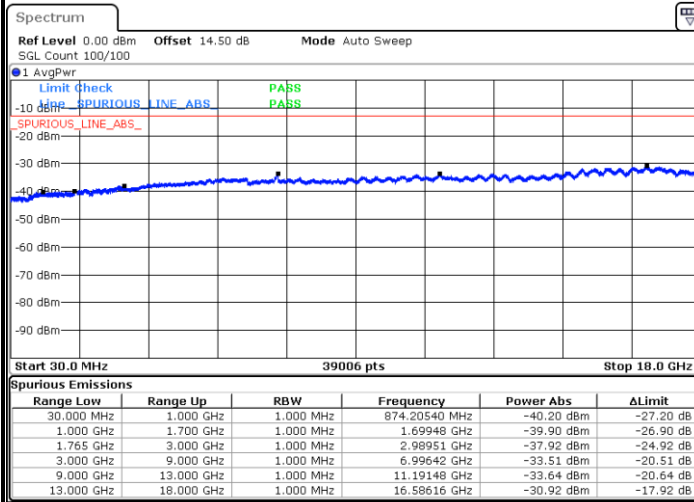


Date: 30.NOV.2019 07:21:03



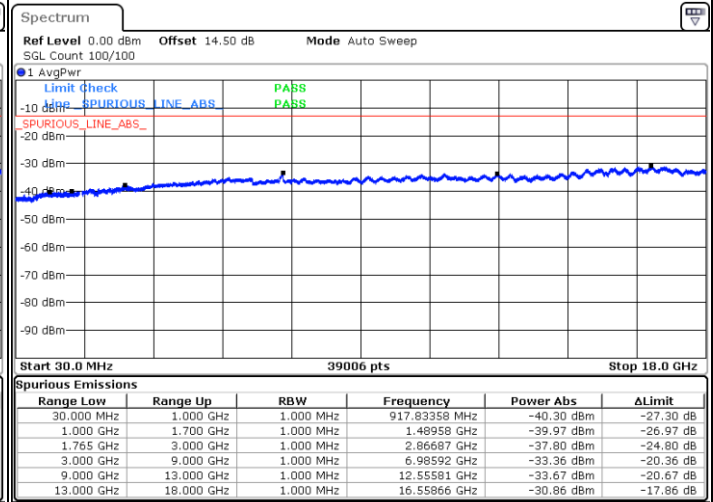
LTE Band 4 / 5MHz

Lowest Channel / QPSK



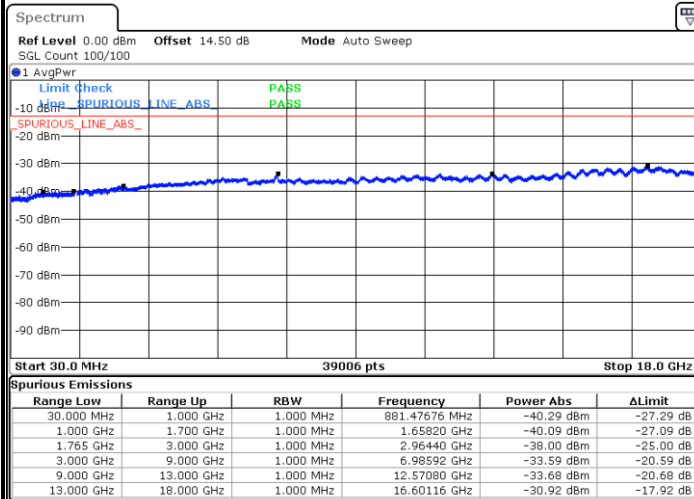
Date: 30.NOV.2019 07:21:45

Lowest Channel / 16QAM



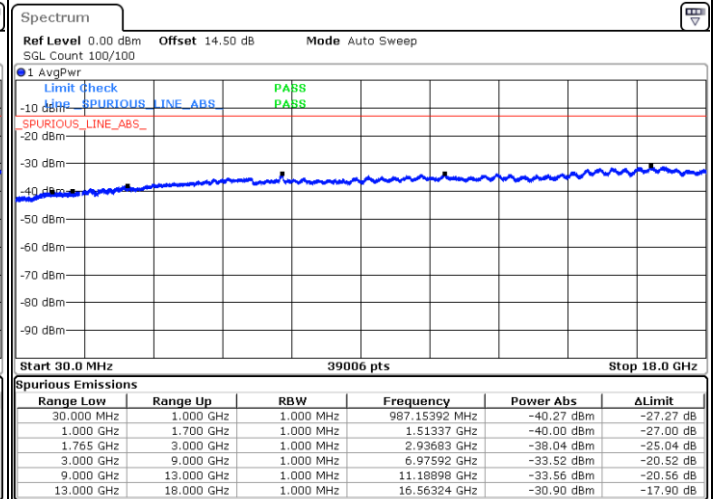
Date: 30.NOV.2019 07:22:27

Middle Channel / QPSK



Date: 30.NOV.2019 07:23:09

Middle Channel / 16QAM

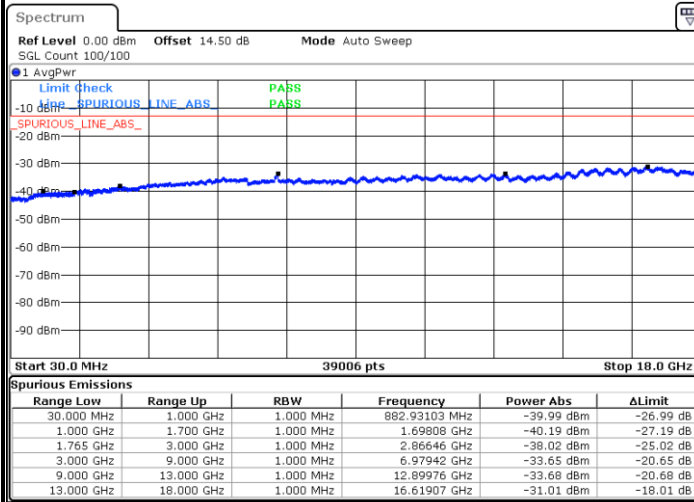


Date: 30.NOV.2019 07:23:50



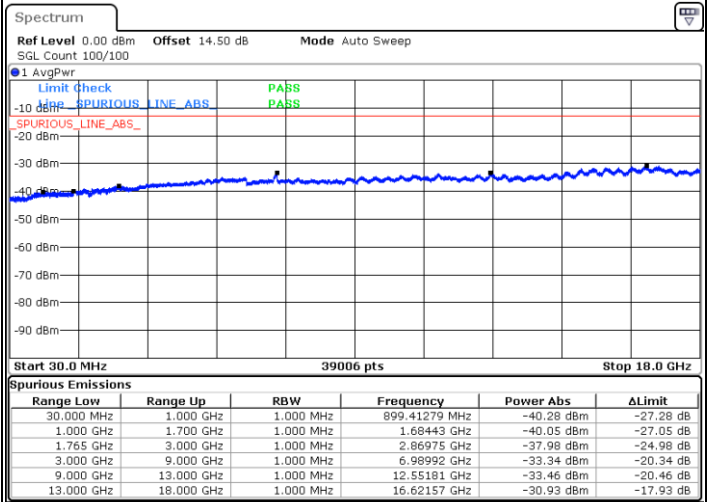
LTE Band 4 / 5MHz

Highest Channel / QPSK



Date: 30.NOV.2019 07:24:32

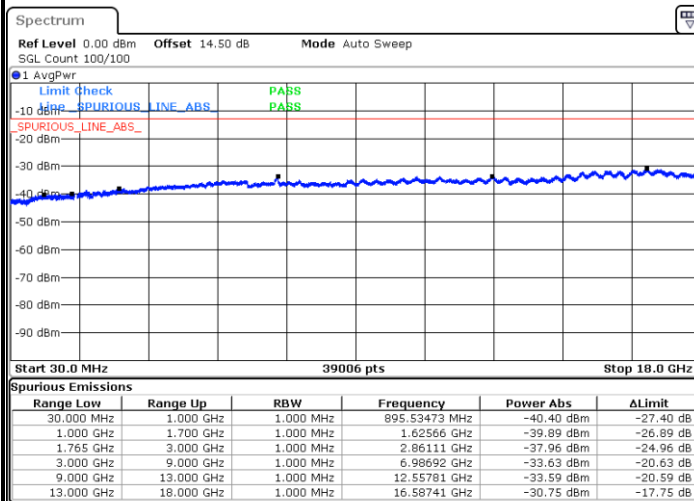
Highest Channel / 16QAM



Date: 30.NOV.2019 07:25:14

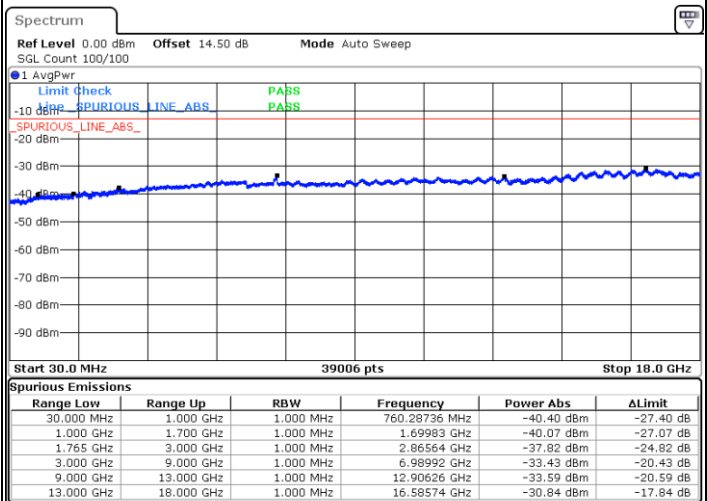
LTE Band 4 / 10MHz

Lowest Channel / QPSK



Date: 30.NOV.2019 07:25:56

Lowest Channel / 16QAM

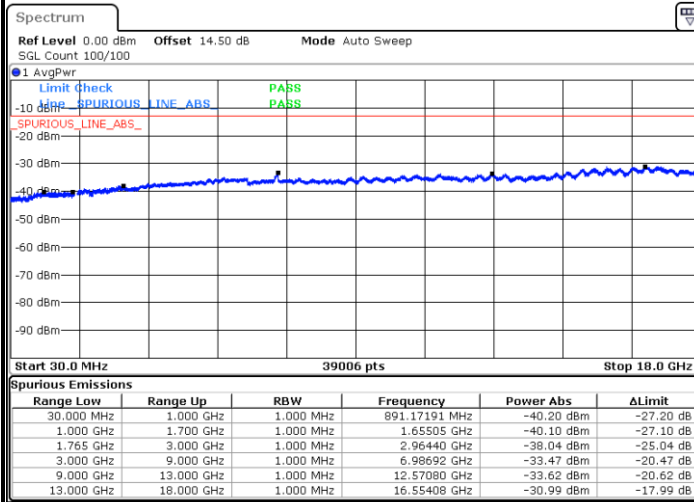


Date: 30.NOV.2019 07:26:37



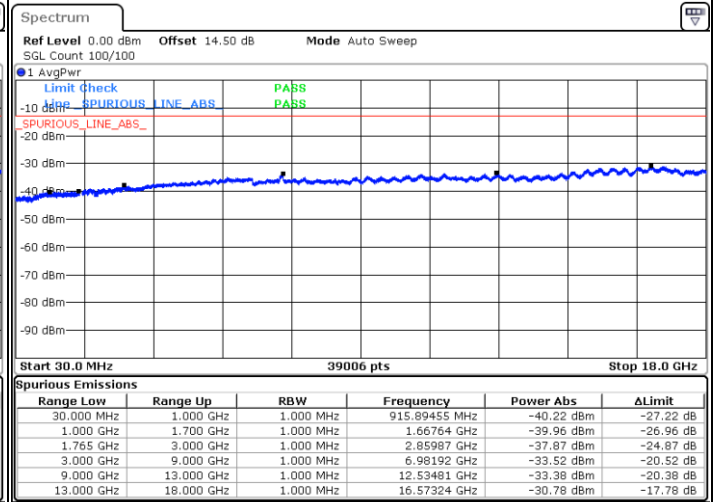
LTE Band 4 / 10MHz

Middle Channel / QPSK



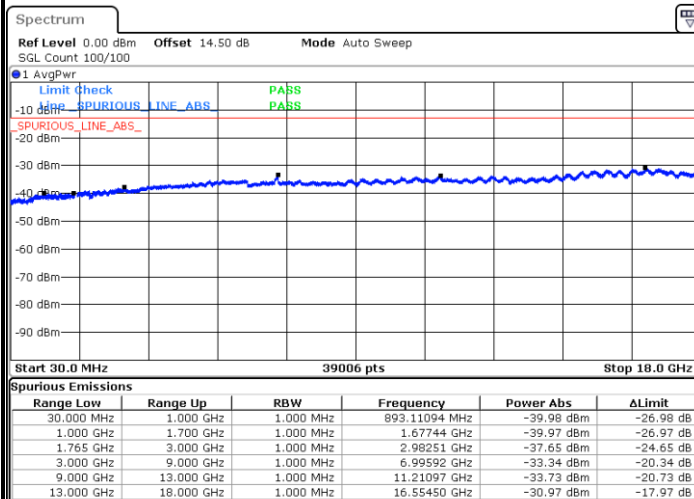
Date: 30.NOV.2019 07:27:19

Middle Channel / 16QAM



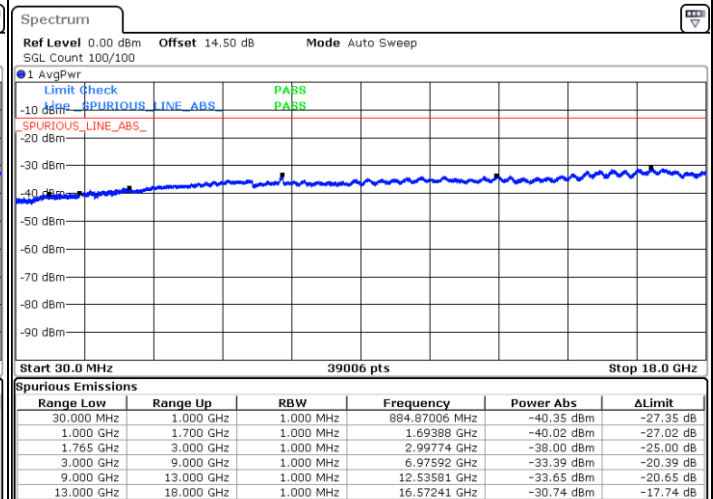
Date: 30.NOV.2019 07:28:01

Highest Channel / QPSK



Date: 30.NOV.2019 07:28:42

Highest Channel / 16QAM

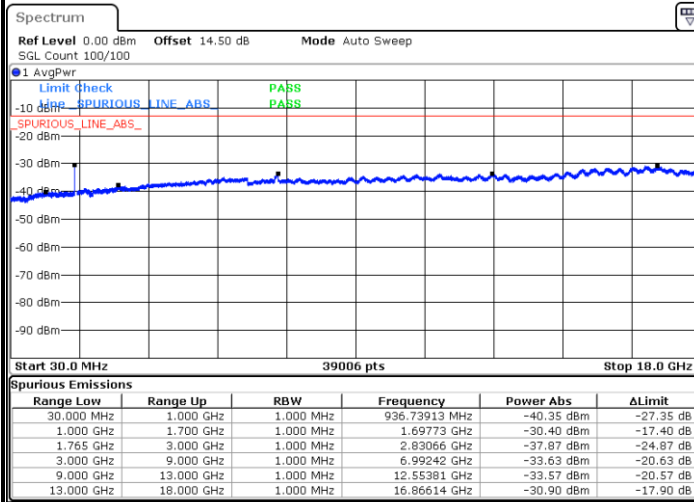


Date: 30.NOV.2019 07:29:24



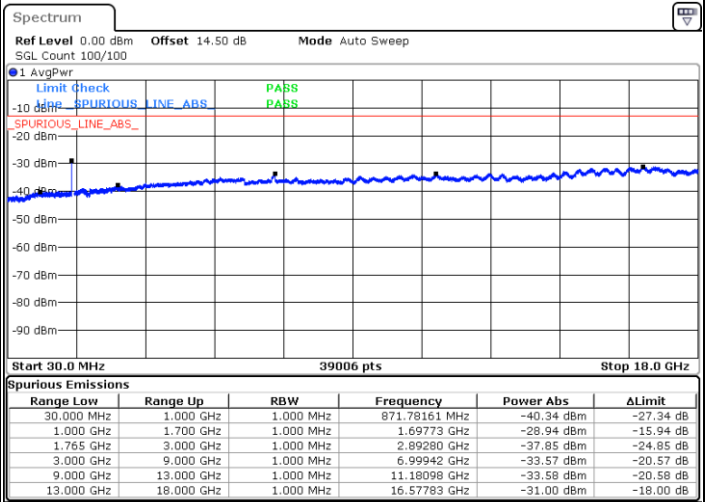
LTE Band 4 / 15MHz

Lowest Channel / QPSK



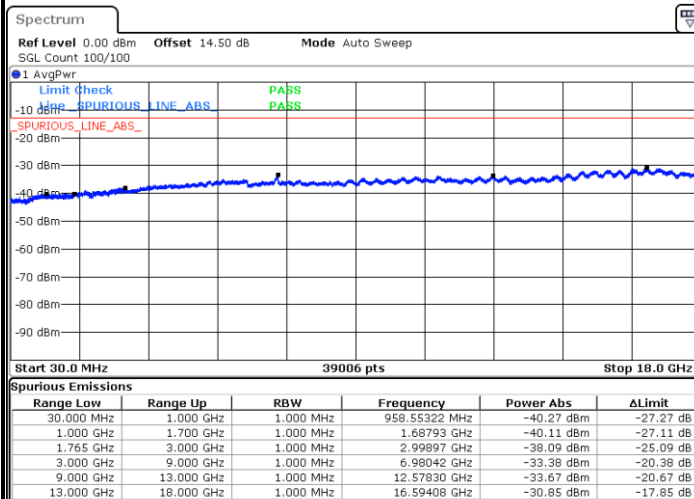
Date: 30.NOV.2019 07:30:06

Lowest Channel / 16QAM



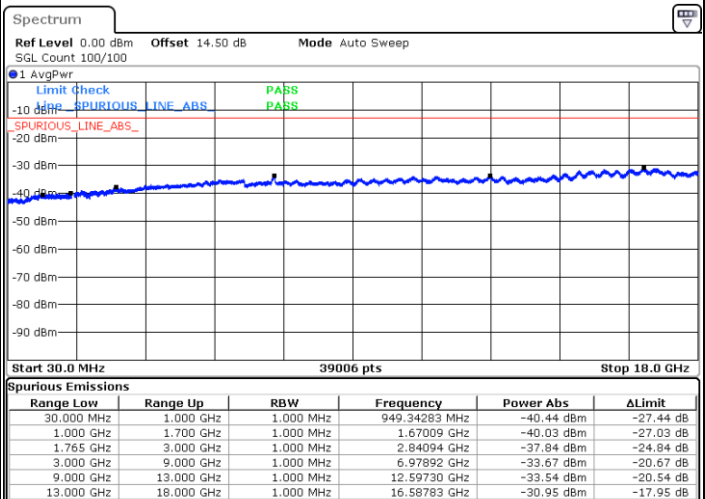
Date: 30.NOV.2019 07:30:47

Middle Channel / QPSK



Date: 30.NOV.2019 07:31:29

Middle Channel / 16QAM

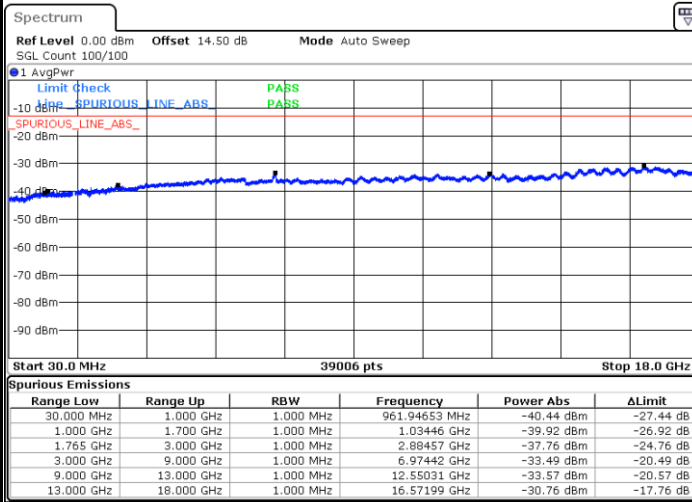


Date: 30.NOV.2019 07:32:10



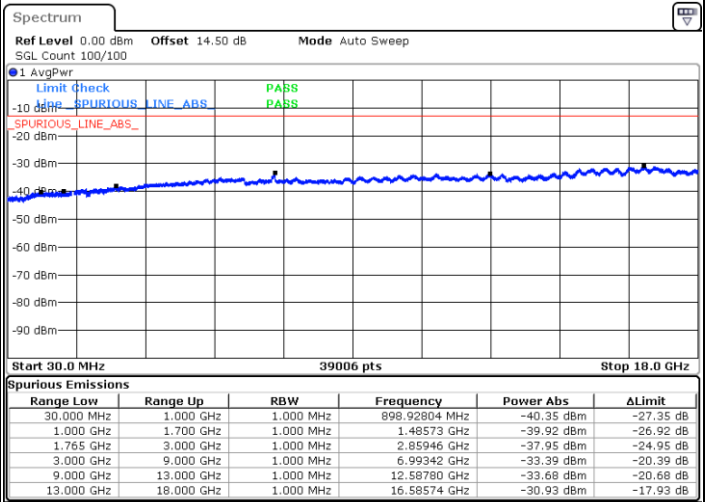
LTE Band 4 / 15MHz

Highest Channel / QPSK



Date: 30.NOV.2019 07:32:52

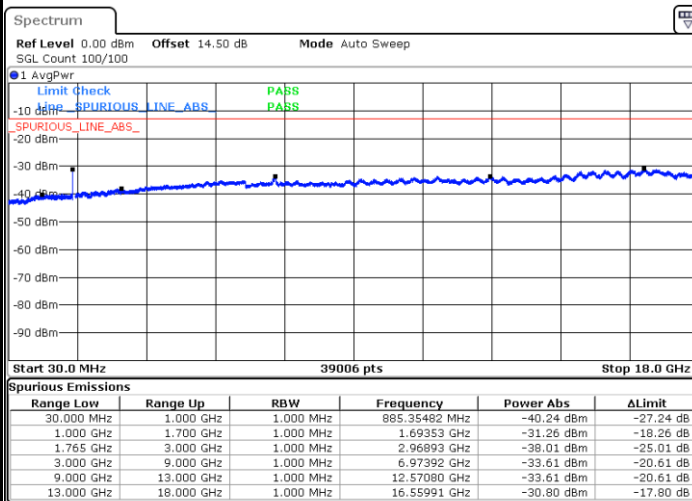
Highest Channel / 16QAM



Date: 30.NOV.2019 07:33:33

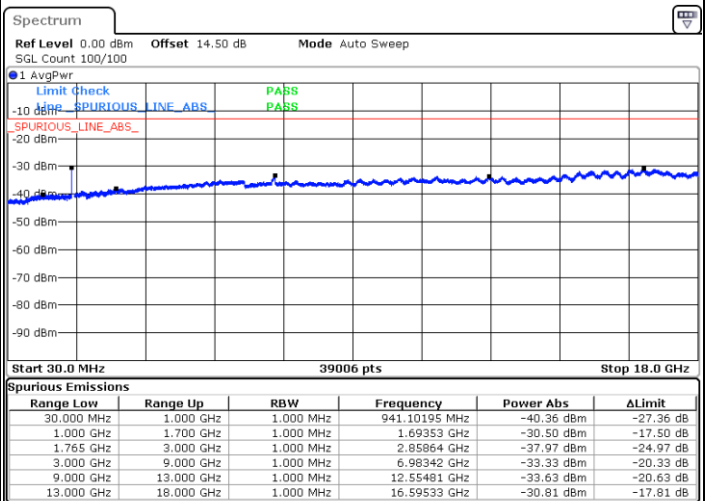
LTE Band 4 / 20MHz

Lowest Channel / QPSK



Date: 30.NOV.2019 07:34:15

Lowest Channel / 16QAM

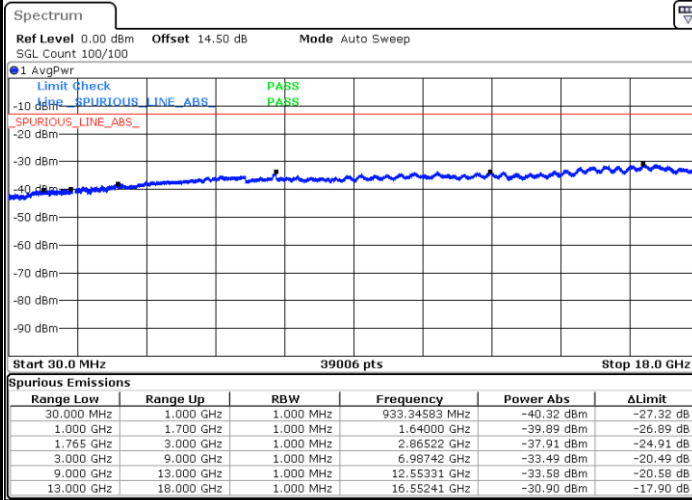


Date: 30.NOV.2019 07:34:56



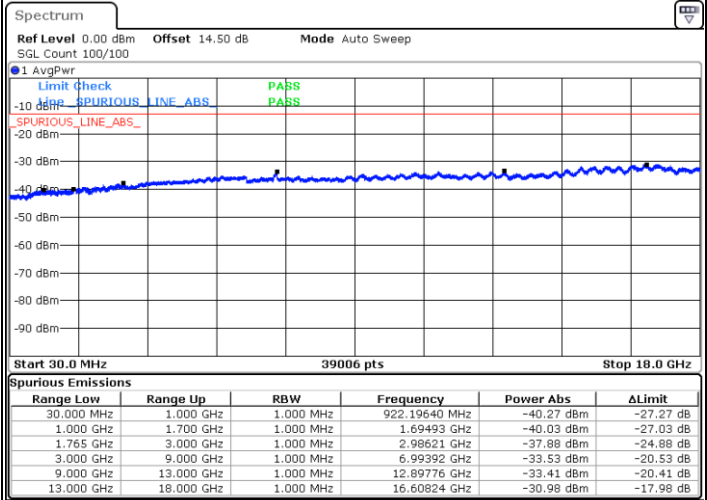
LTE Band 4 / 20MHz

Middle Channel / QPSK



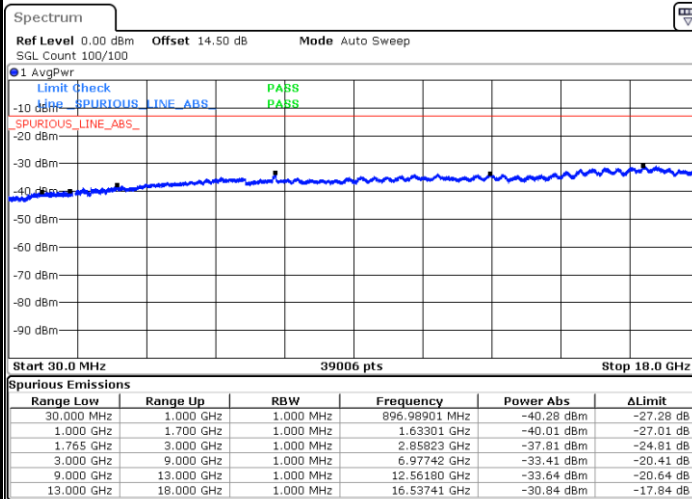
Date: 30.NOV.2019 07:35:37

Middle Channel / 16QAM



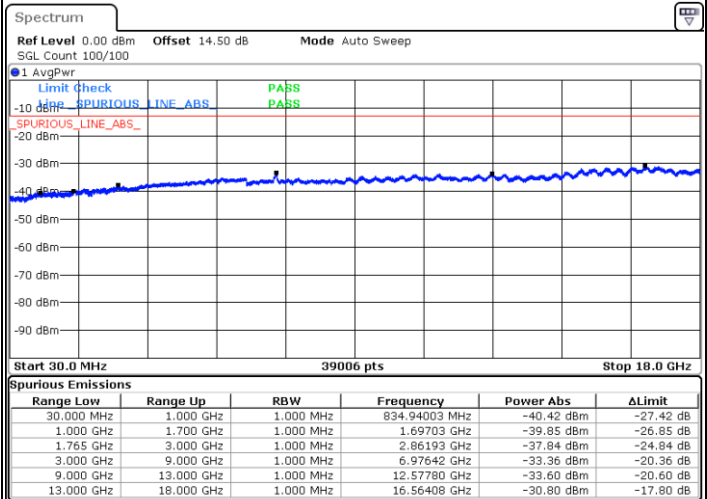
Date: 30.NOV.2019 07:36:18

Highest Channel / QPSK



Date: 30.NOV.2019 07:36:59

Highest Channel / 16QAM

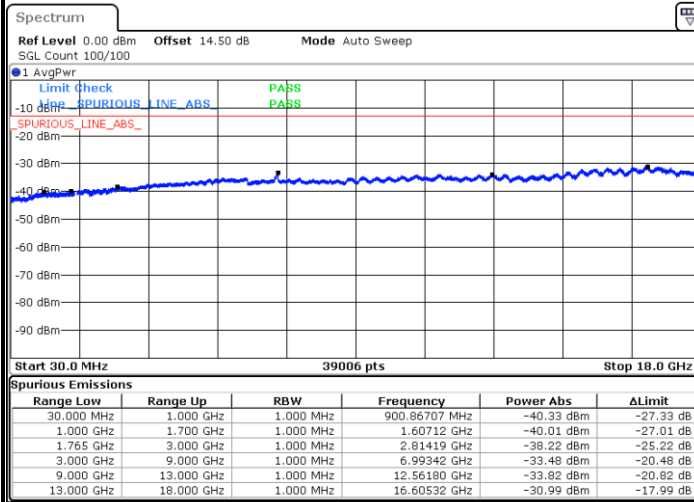


Date: 30.NOV.2019 07:37:41



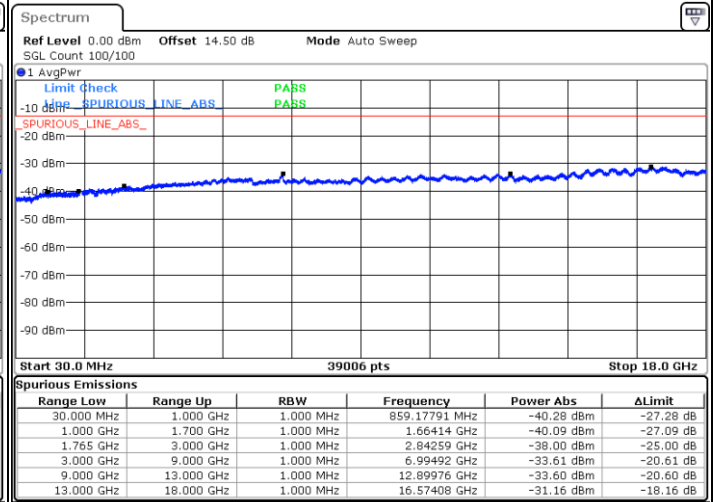
LTE Band 4 / 1.4MHz

Lowest Channel / 64QAM



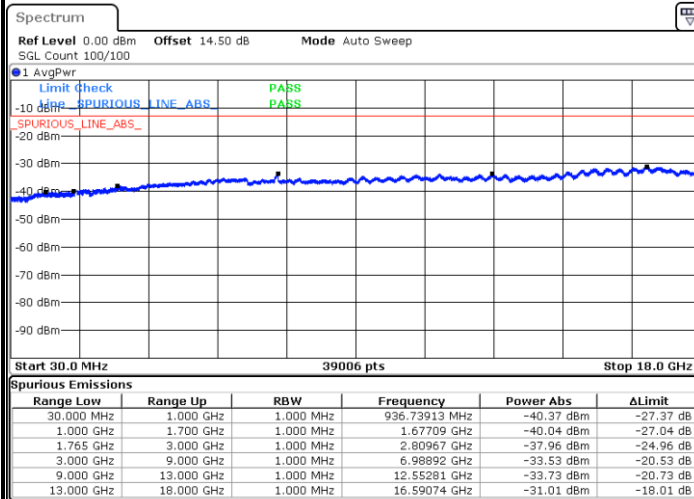
Date: 5.DEC.2019 14:03:36

Middle Channel / 64QAM



Date: 5.DEC.2019 14:02:49

Highest Channel / 64QAM

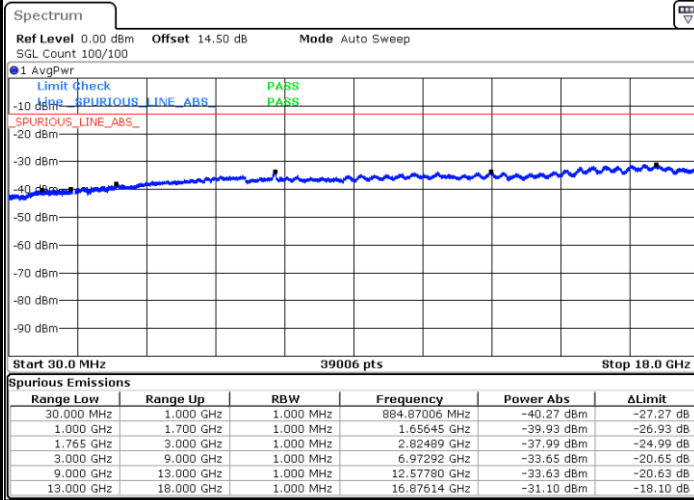


Date: 5.DEC.2019 13:59:39



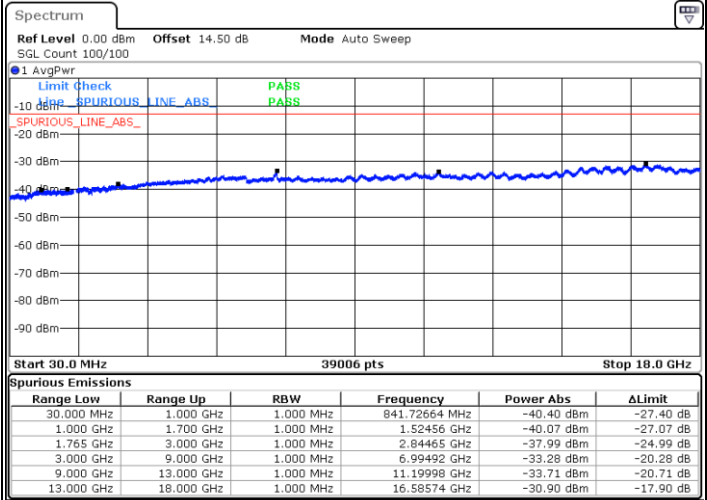
LTE Band 4 / 3MHz

Lowest Channel / 64QAM



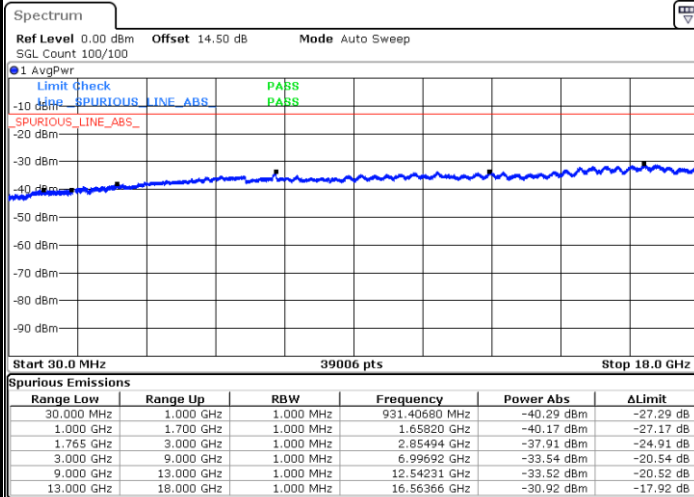
Date: 5.DEC.2019 14:09:05

Middle Channel / 64QAM



Date: 5.DEC.2019 14:09:52

Highest Channel / 64QAM

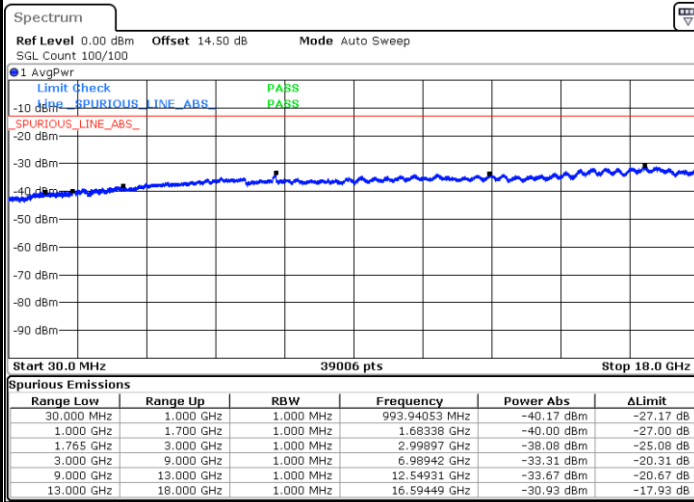


Date: 5.DEC.2019 14:13:02



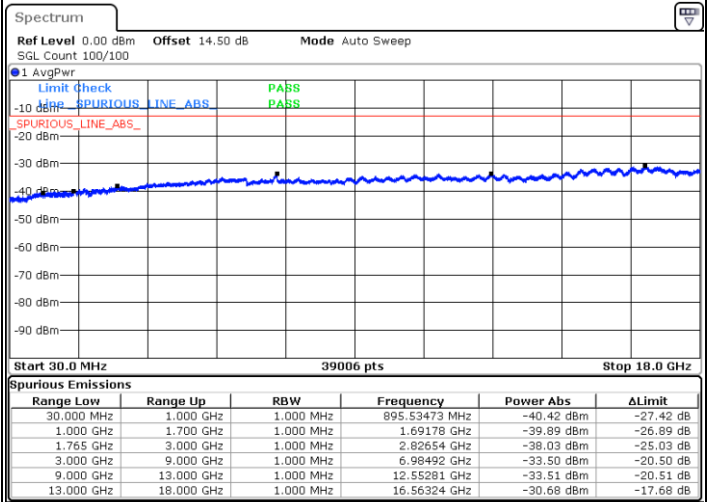
LTE Band 4 / 5MHz

Lowest Channel / 64QAM



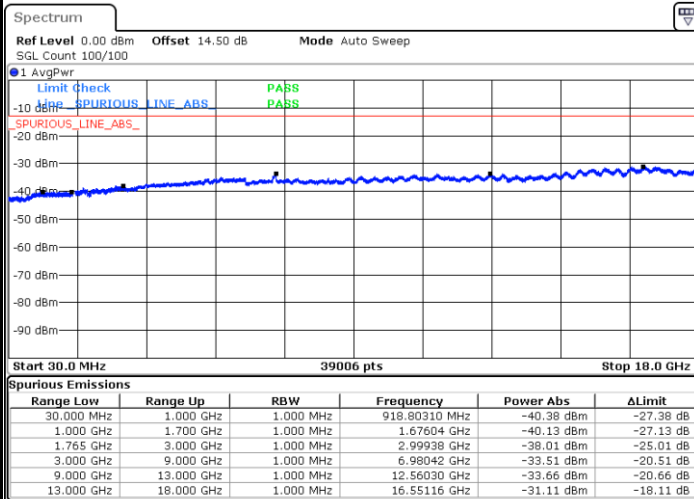
Date: 5.DEC.2019 14:26:21

Middle Channel / 64QAM



Date: 5.DEC.2019 14:27:25

Highest Channel / 64QAM

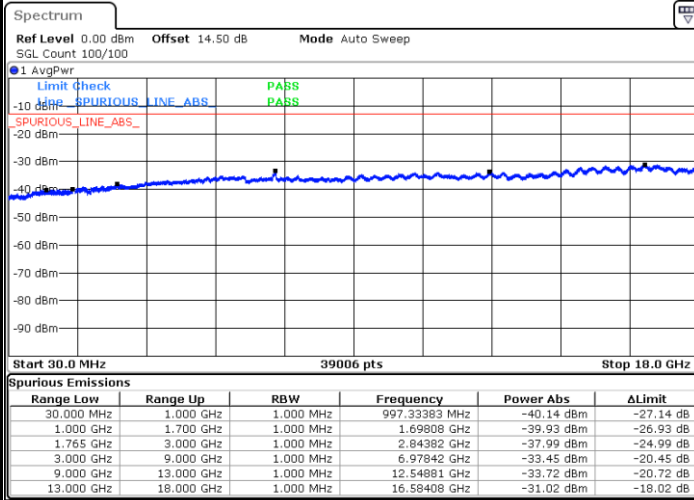


Date: 5.DEC.2019 14:30:28



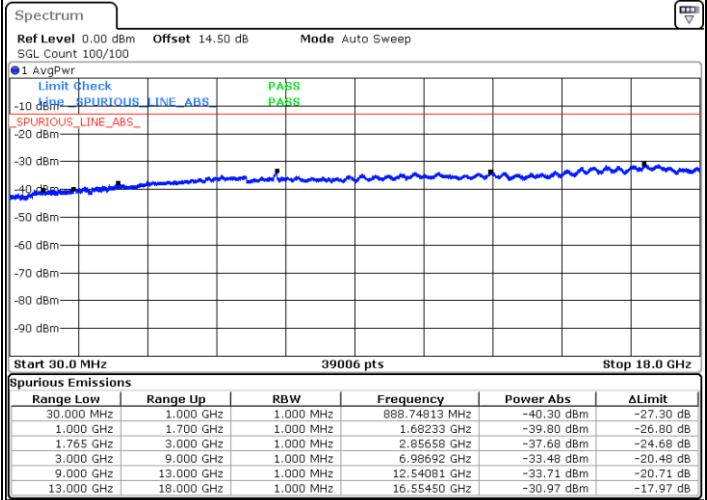
LTE Band 4 / 10MHz

Lowest Channel / 64QAM



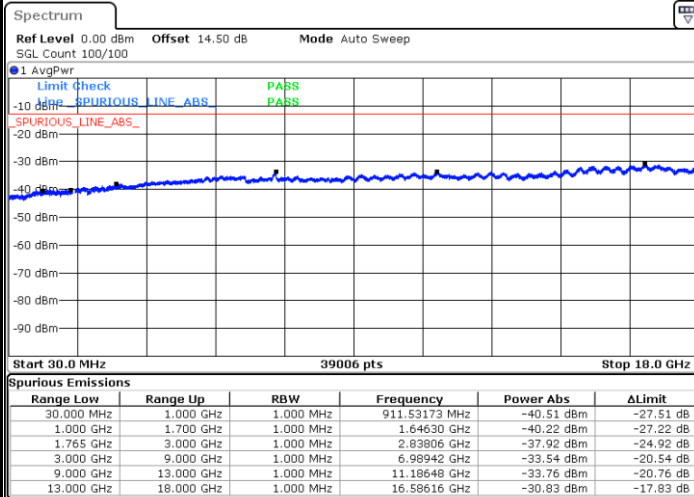
Date: 5.DEC.2019 14:33:32

Middle Channel / 64QAM



Date: 5.DEC.2019 14:34:37

Highest Channel / 64QAM

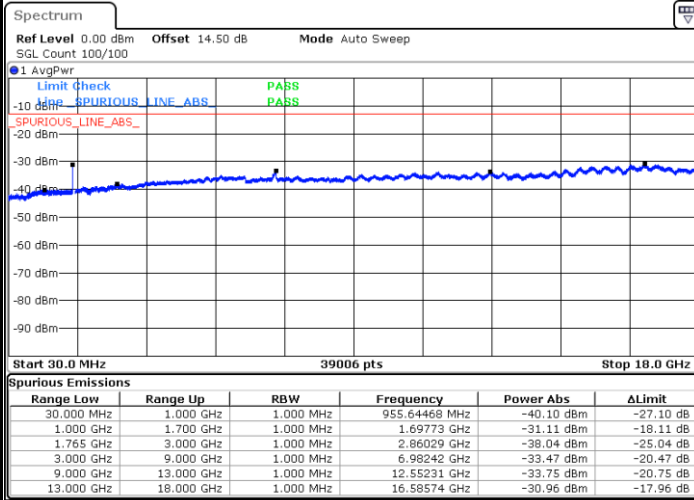


Date: 5.DEC.2019 14:37:41



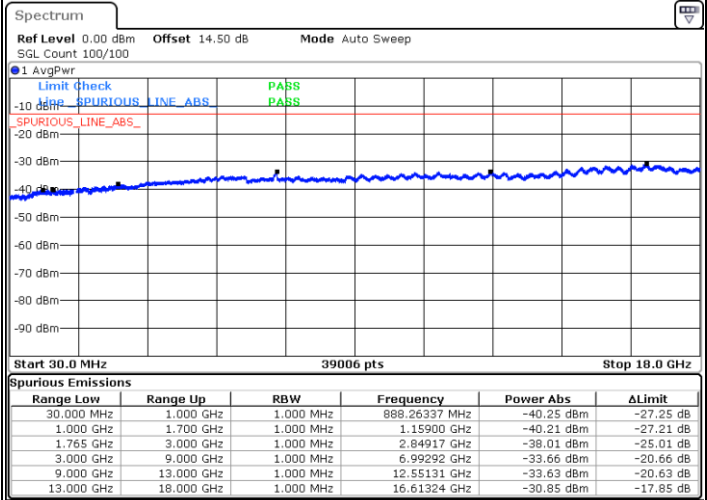
LTE Band 4 / 15MHz

Lowest Channel / 64QAM



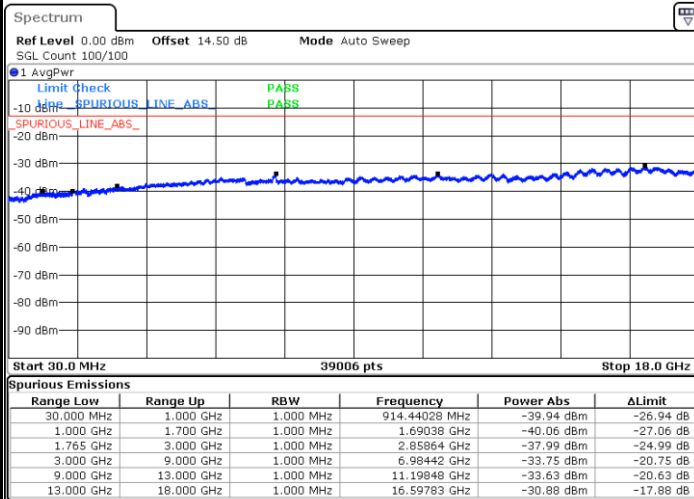
Date: 5.DEC.2019 14:40:44

Middle Channel / 64QAM



Date: 5.DEC.2019 14:41:48

Highest Channel / 64QAM

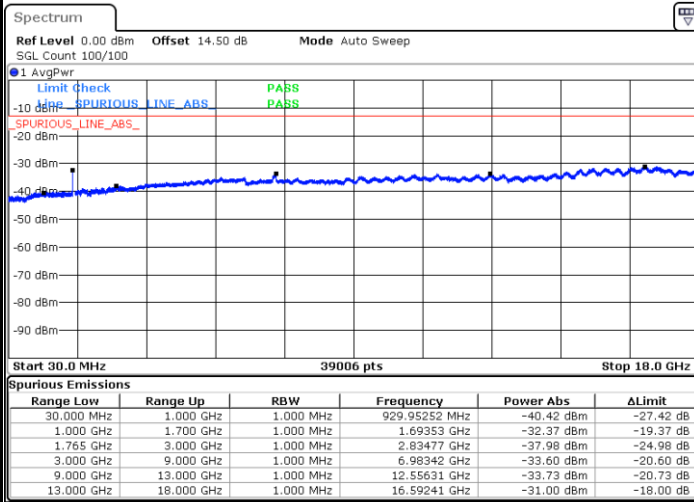


Date: 5.DEC.2019 14:44:52



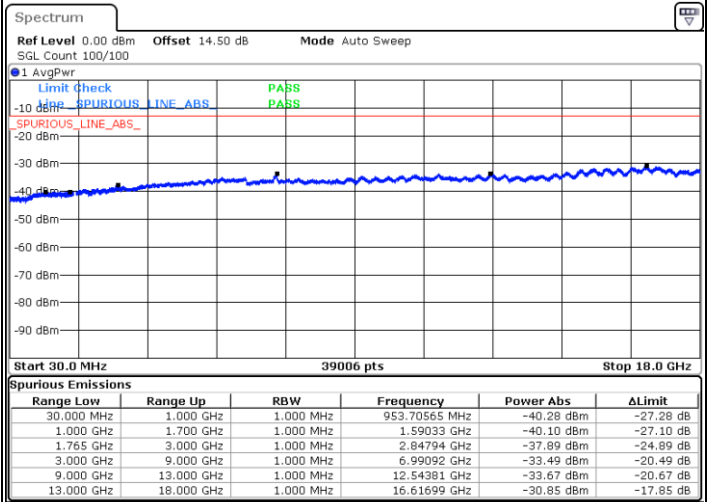
LTE Band 4 / 20MHz

Lowest Channel / 64QAM



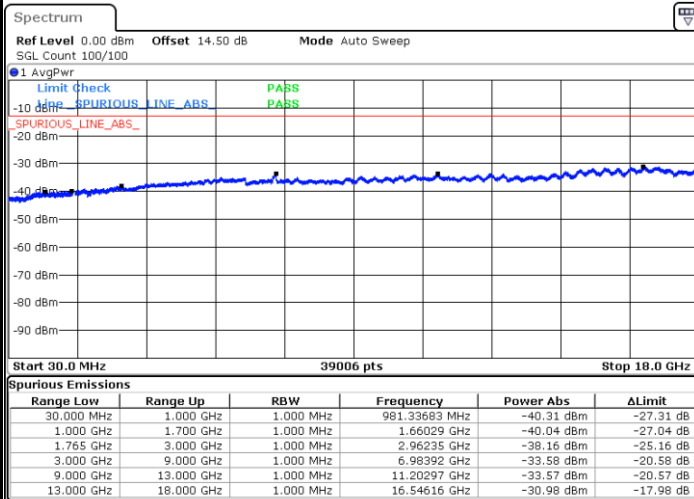
Date: 5.DEC.2019 14:47:56

Middle Channel / 64QAM



Date: 5.DEC.2019 14:49:00

Highest Channel / 64QAM



Date: 5.DEC.2019 14:52:03

**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	0.0013	PASS
40	Normal Voltage	0.0033	
30	Normal Voltage	0.0036	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0031	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0018	
-20	Normal Voltage	0.0001	
-30	Normal Voltage	0.0012	
20	Maximum Voltage	0.0013	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0004	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



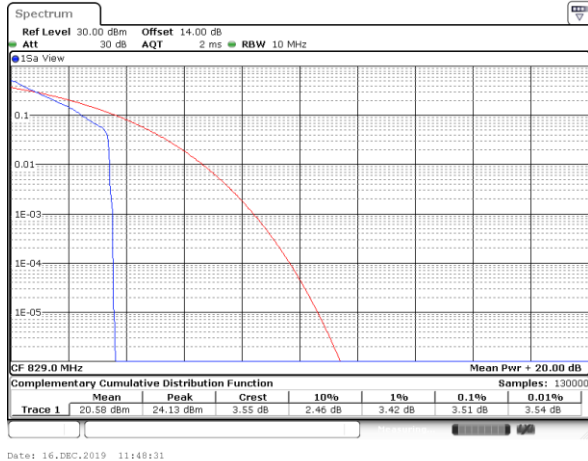
LTE Band 5

Peak-to-Average Ratio

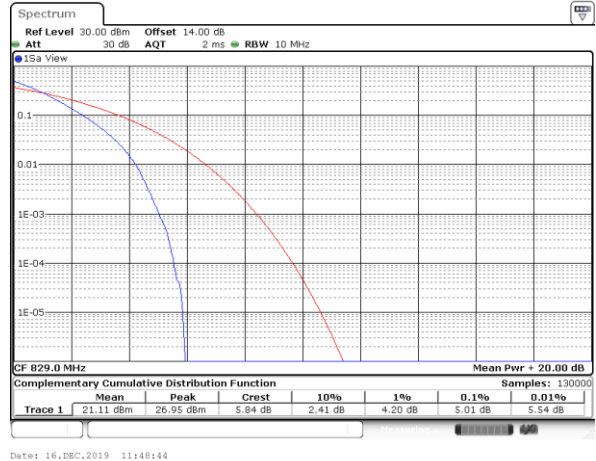
Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.51	5.01	5.36	5.80	PASS
Middle CH	3.62	5.13	5.28	5.83	
Highest CH	3.57	5.13	5.48	5.91	
Mode	LTE Band 5 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.45	5.86			PASS
Middle CH	5.54	5.88			
Highest CH	5.54	6.00			

LTE Band 5 / 10MHz / QPSK

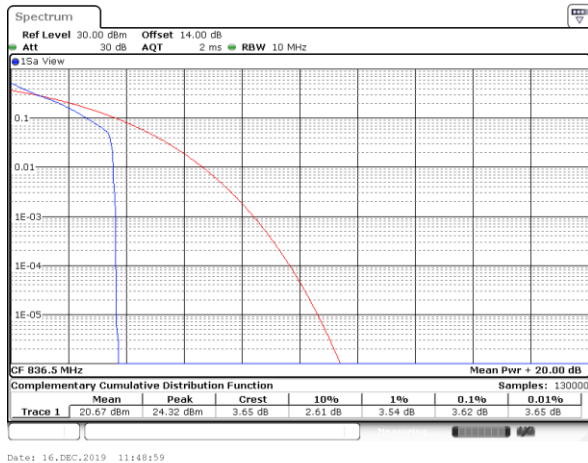
Lowest Channel / 1RB



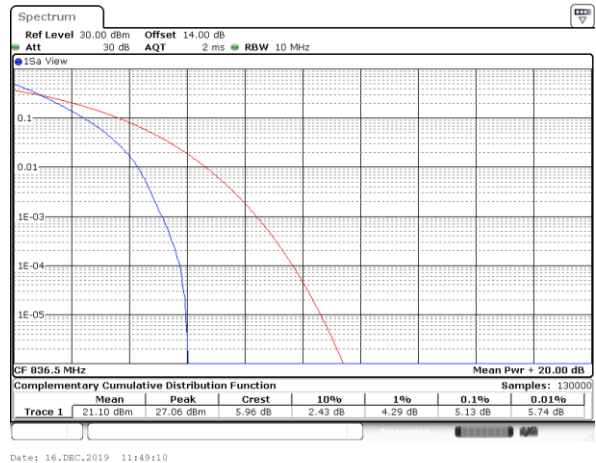
Lowest Channel / Full RB



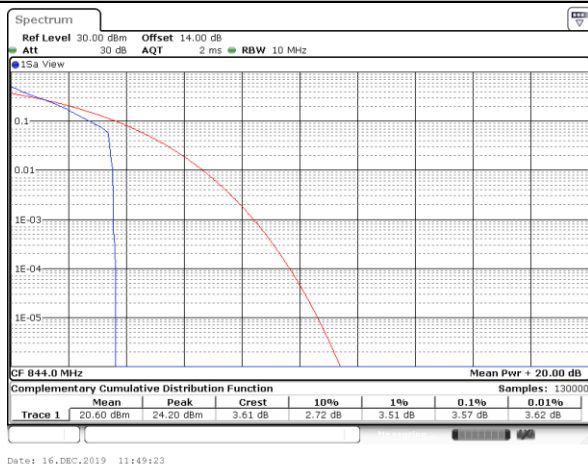
Middle Channel / 1RB



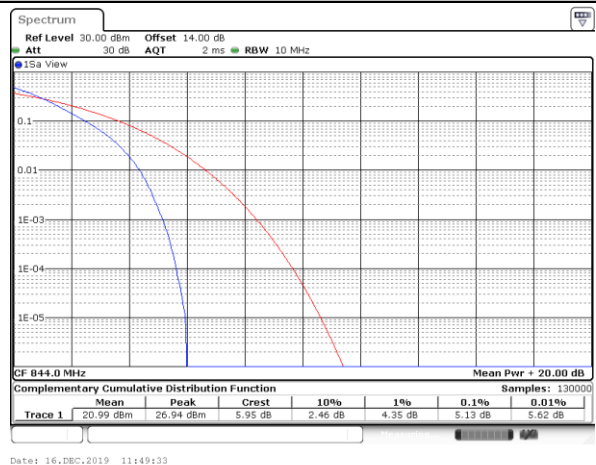
Middle Channel / Full RB



Highest Channel / 1RB



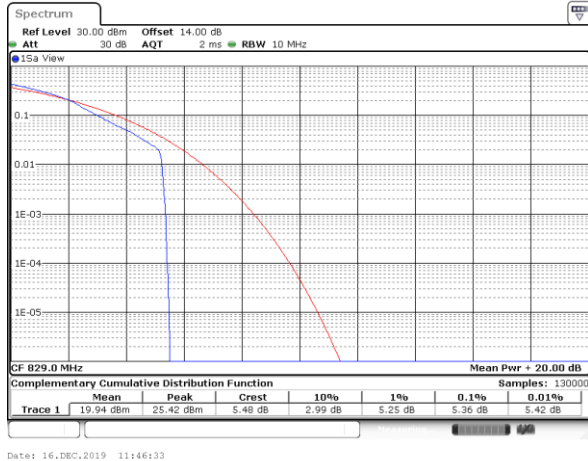
Highest Channel / Full RB



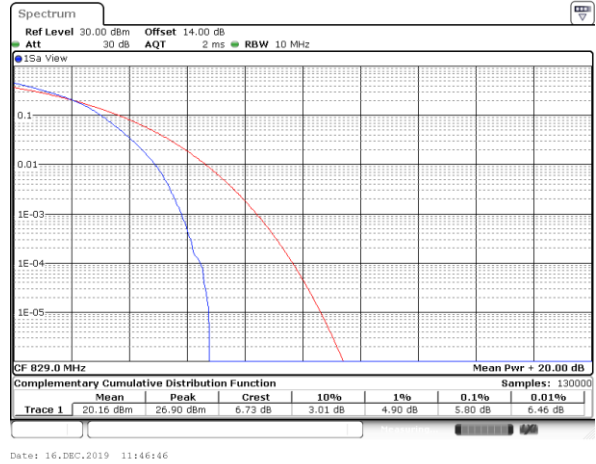


LTE Band 5 / 10MHz / 16QAM

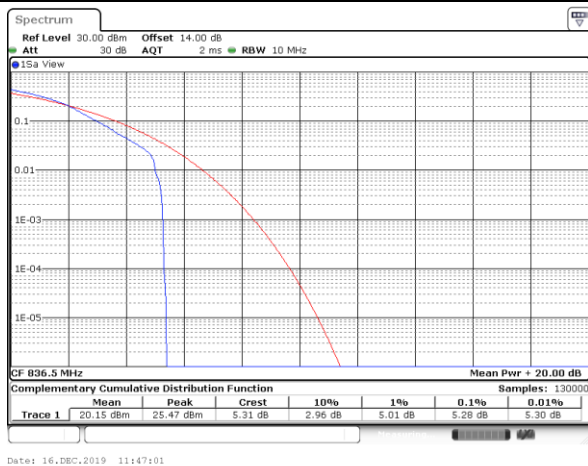
Lowest Channel / 1RB



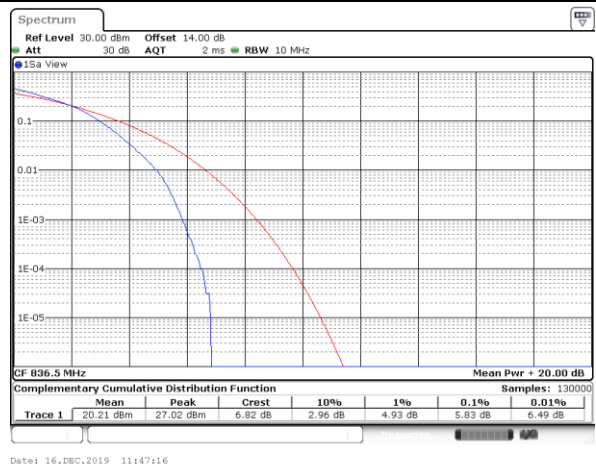
Lowest Channel / Full RB



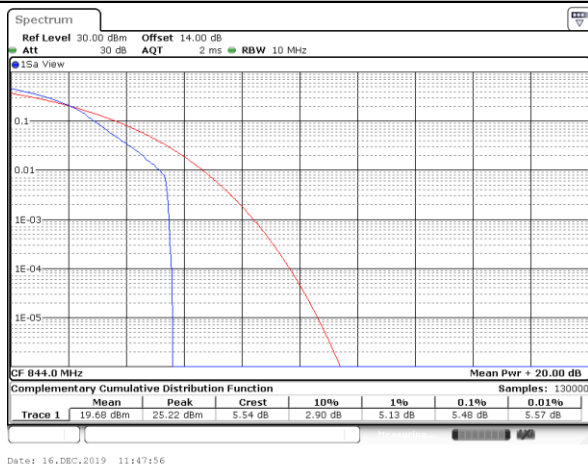
Middle Channel / 1RB



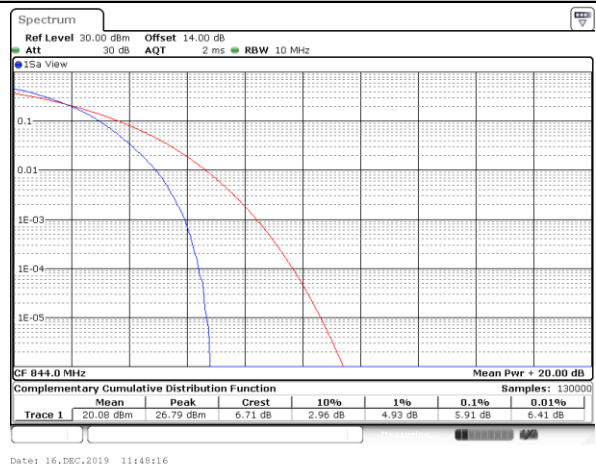
Middle Channel / Full RB



Highest Channel / 1RB



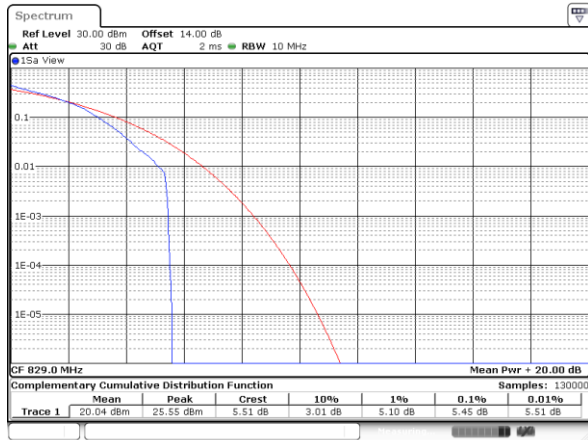
Highest Channel / Full RB



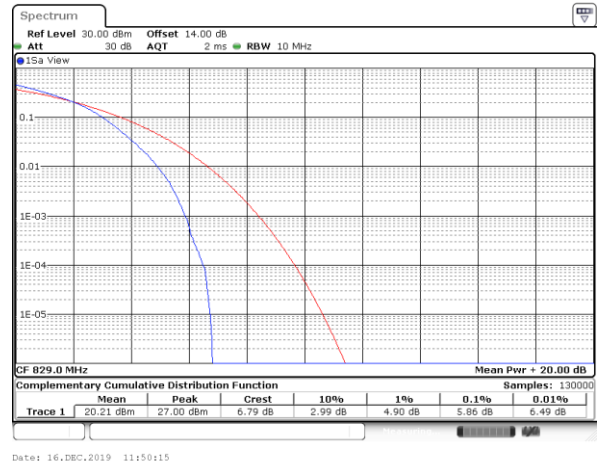


LTE Band 5 / 10MHz / 64QAM

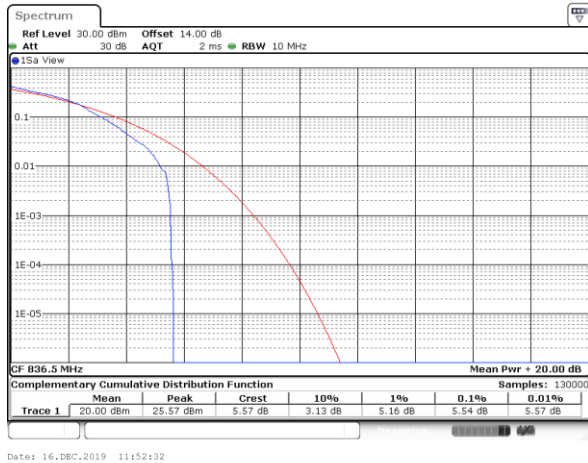
Lowest Channel / 1RB



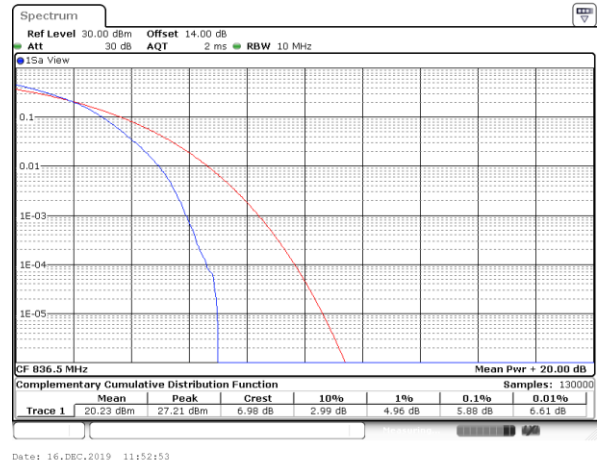
Lowest Channel / Full RB



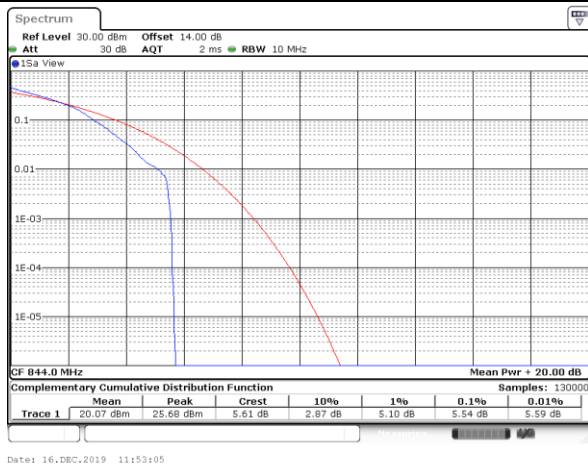
Middle Channel / 1RB



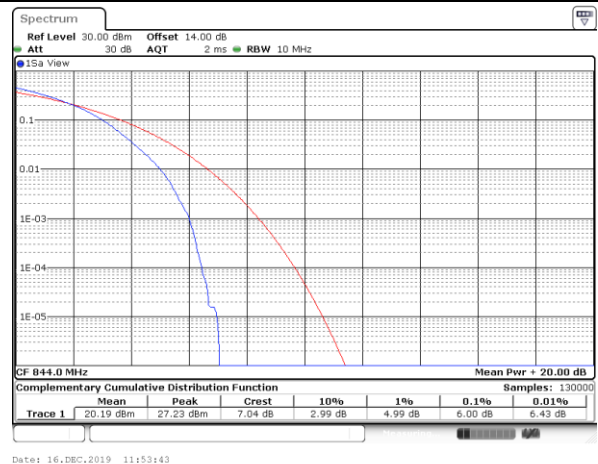
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



**26dB Bandwidth**

Mode	LTE Band 5 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz					
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM				
Lowest CH	1.21	1.23	3.02	2.98	4.86	4.88	9.85	9.71				
Middle CH	1.23	1.22	3.03	3.03	4.90	4.91	9.73	9.79				
Highest CH	1.24	1.23	3.04	2.99	4.90	4.88	9.81	9.75				
Mode	LTE Band 5 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz					
Mod.	64QAM		64QAM		64QAM		64QAM					
Lowest CH	1.23	-	3.00	-	4.88	-	9.75	-				
Middle CH	1.23	-	3.00	-	4.86	-	9.61	-				
Highest CH	1.24	-	3.00	-	4.91	-	9.89	-				