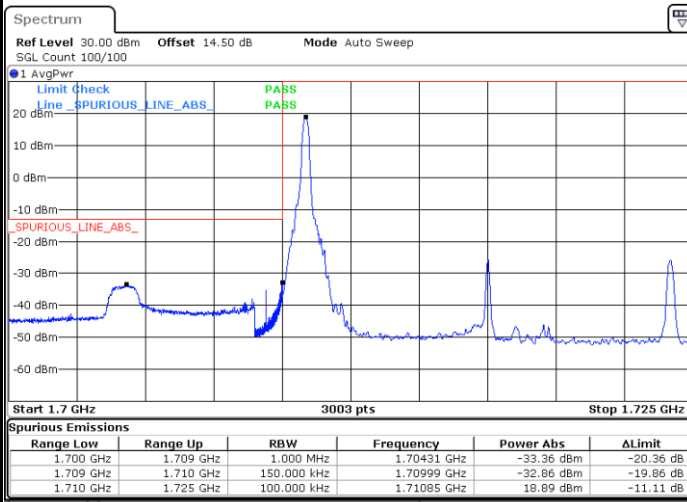




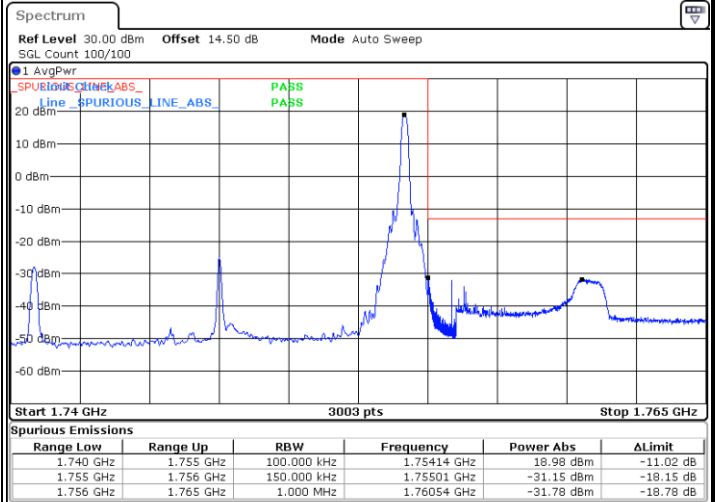
LTE Band 4 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



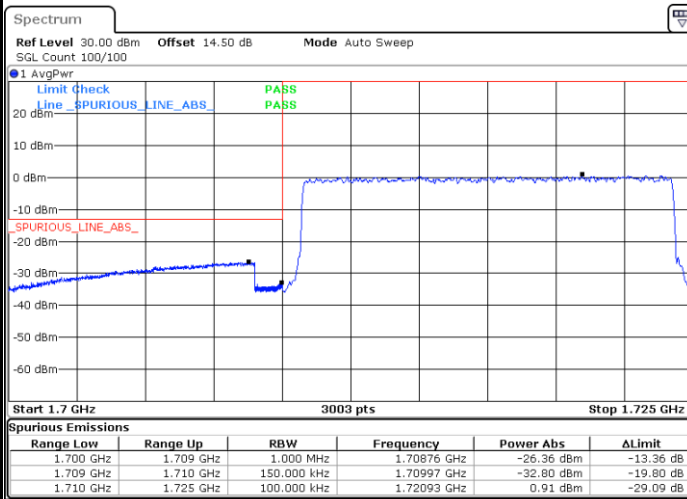
Date: 5.DEC.2019 14:39:03

Highest Band Edge / 1 RB



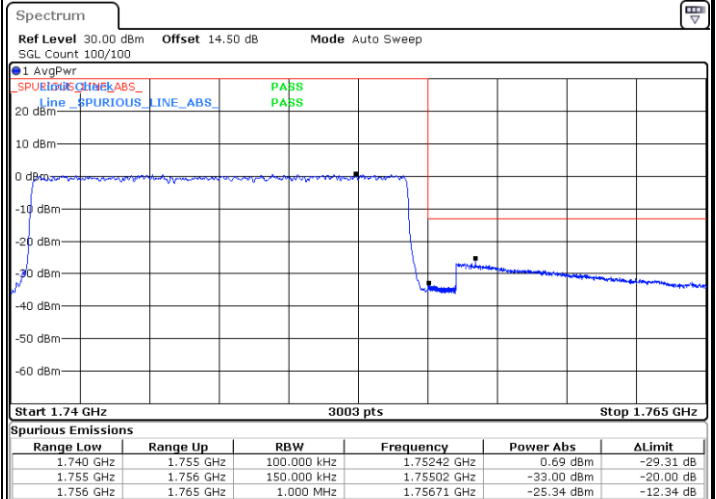
Date: 5.DEC.2019 14:43:10

Lowest Band Edge / Full RB



Date: 5.DEC.2019 14:40:03

Highest Band Edge / Full RB

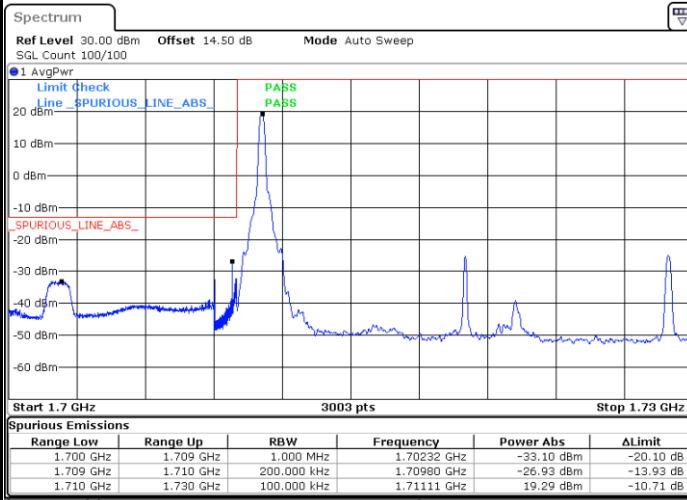


Date: 5.DEC.2019 14:44:10



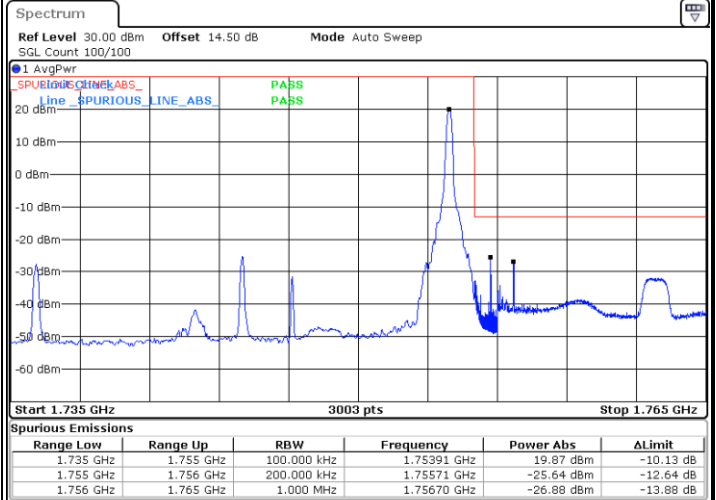
LTE Band 4 / 20MHz / QPSK

Lowest Band Edge / 1 RB



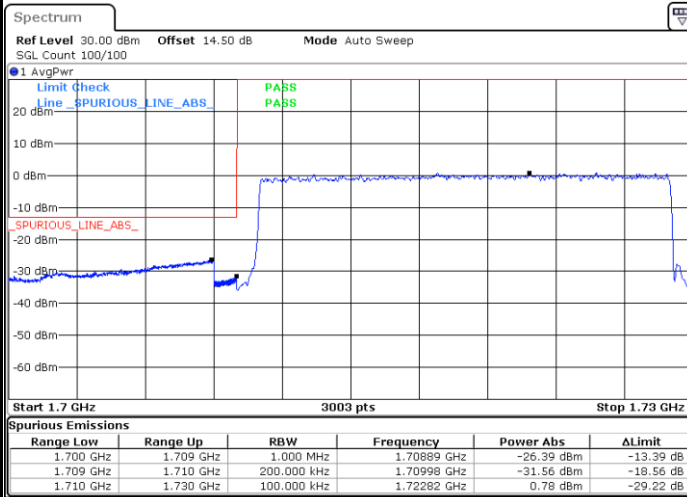
Date: 30.NOV.2019 07:02:17

Highest Band Edge / 1 RB



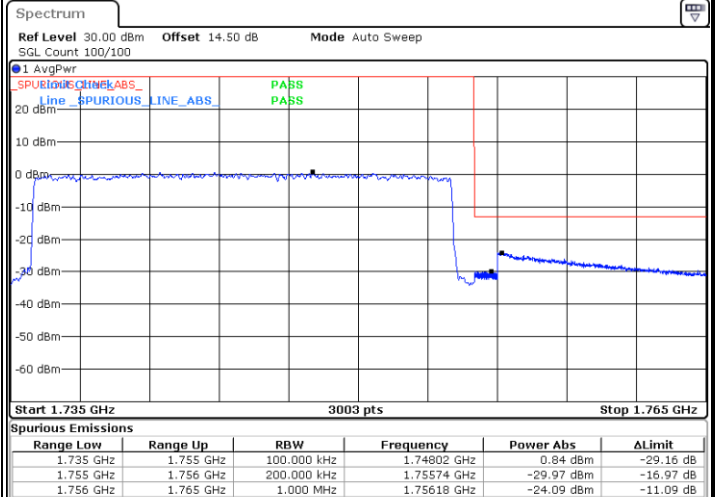
Date: 30.NOV.2019 07:07:08

Lowest Band Edge / Full RB



Date: 30.NOV.2019 07:05:07

Highest Band Edge / Full RB

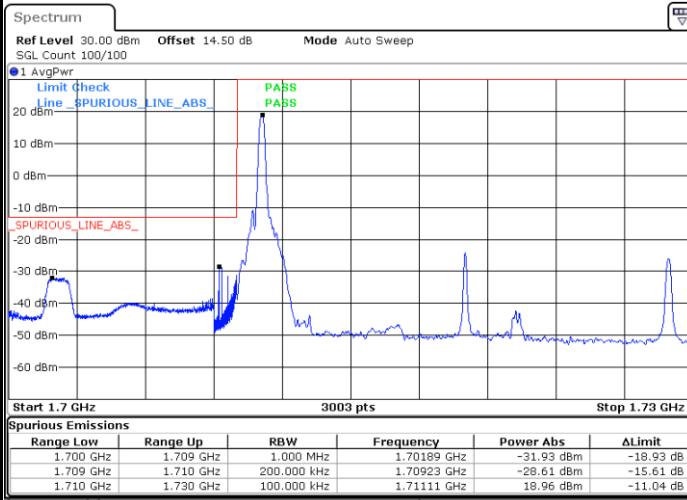


Date: 30.NOV.2019 07:09:08



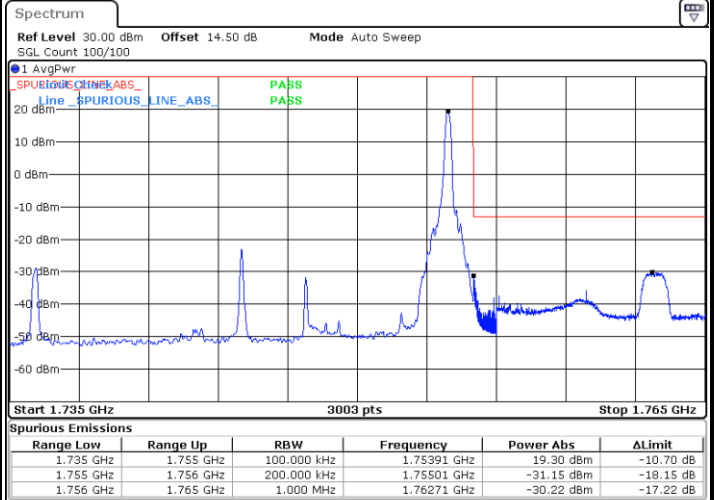
LTE Band 4 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



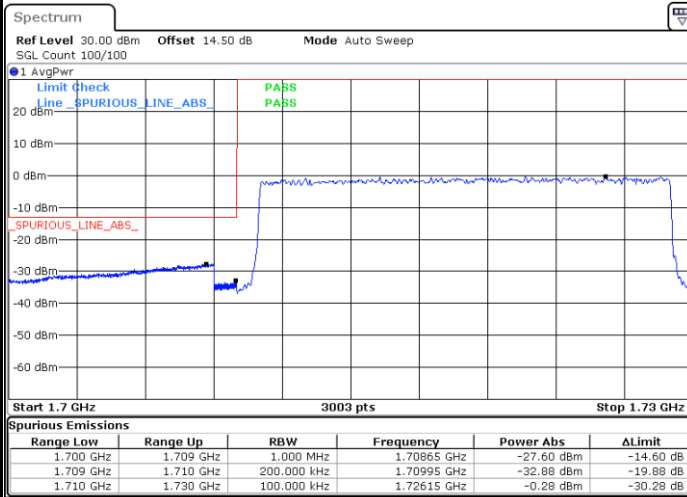
Date: 30.NOV.2019 07:04:07

Highest Band Edge / 1 RB



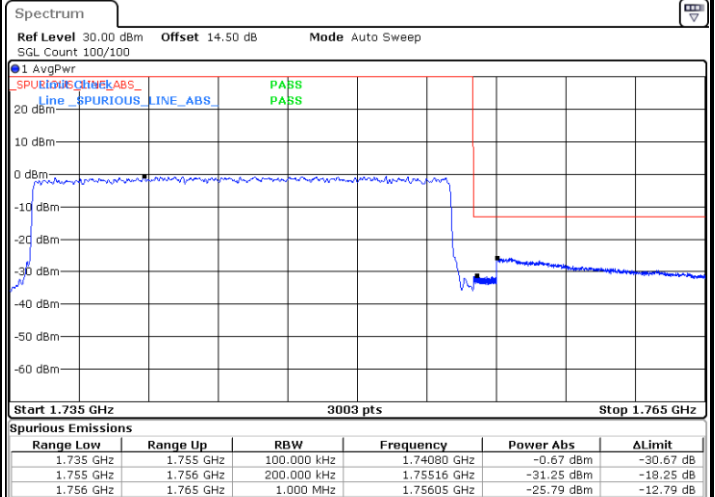
Date: 30.NOV.2019 07:08:08

Lowest Band Edge / Full RB

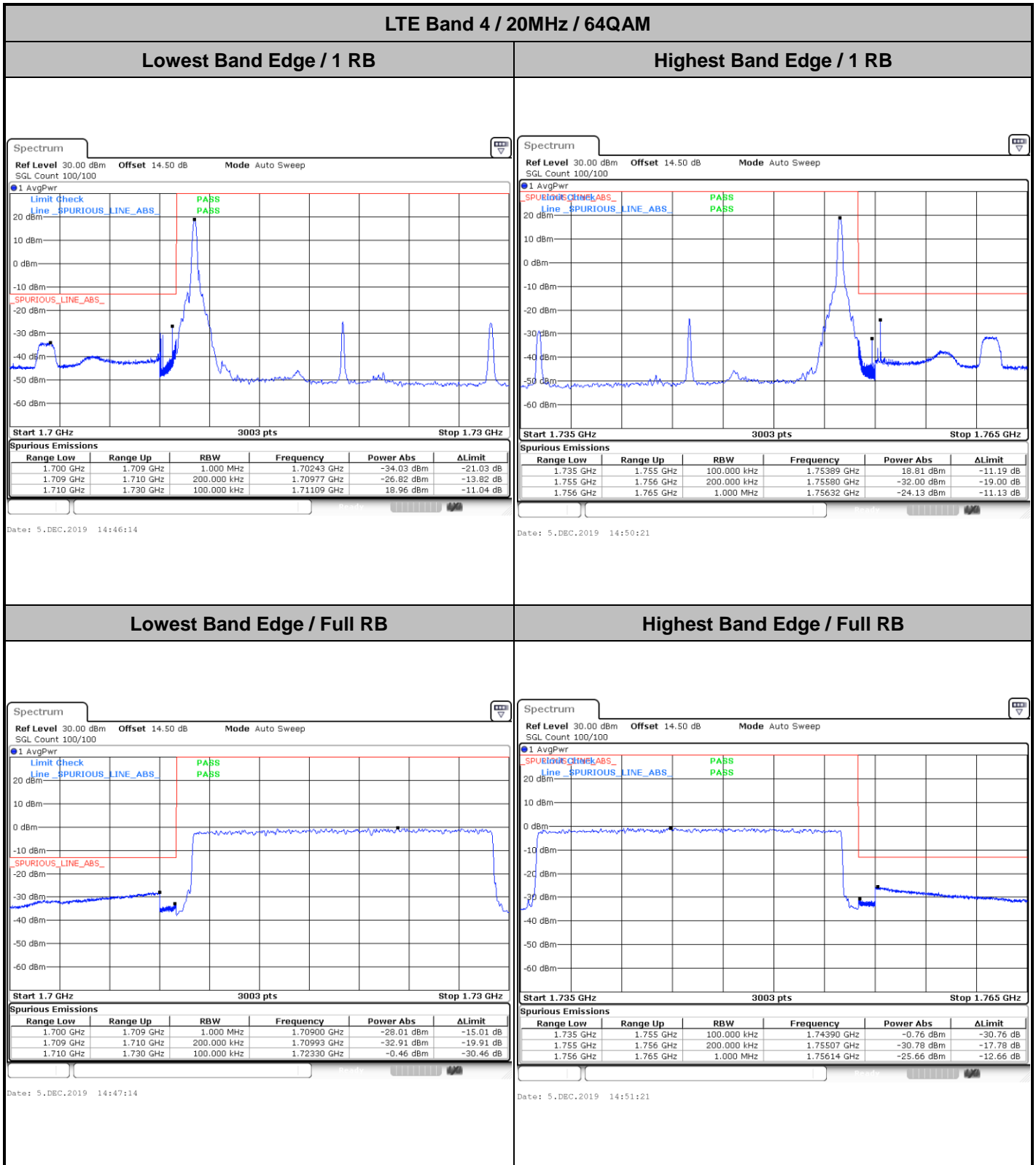


Date: 30.NOV.2019 07:06:07

Highest Band Edge / Full RB

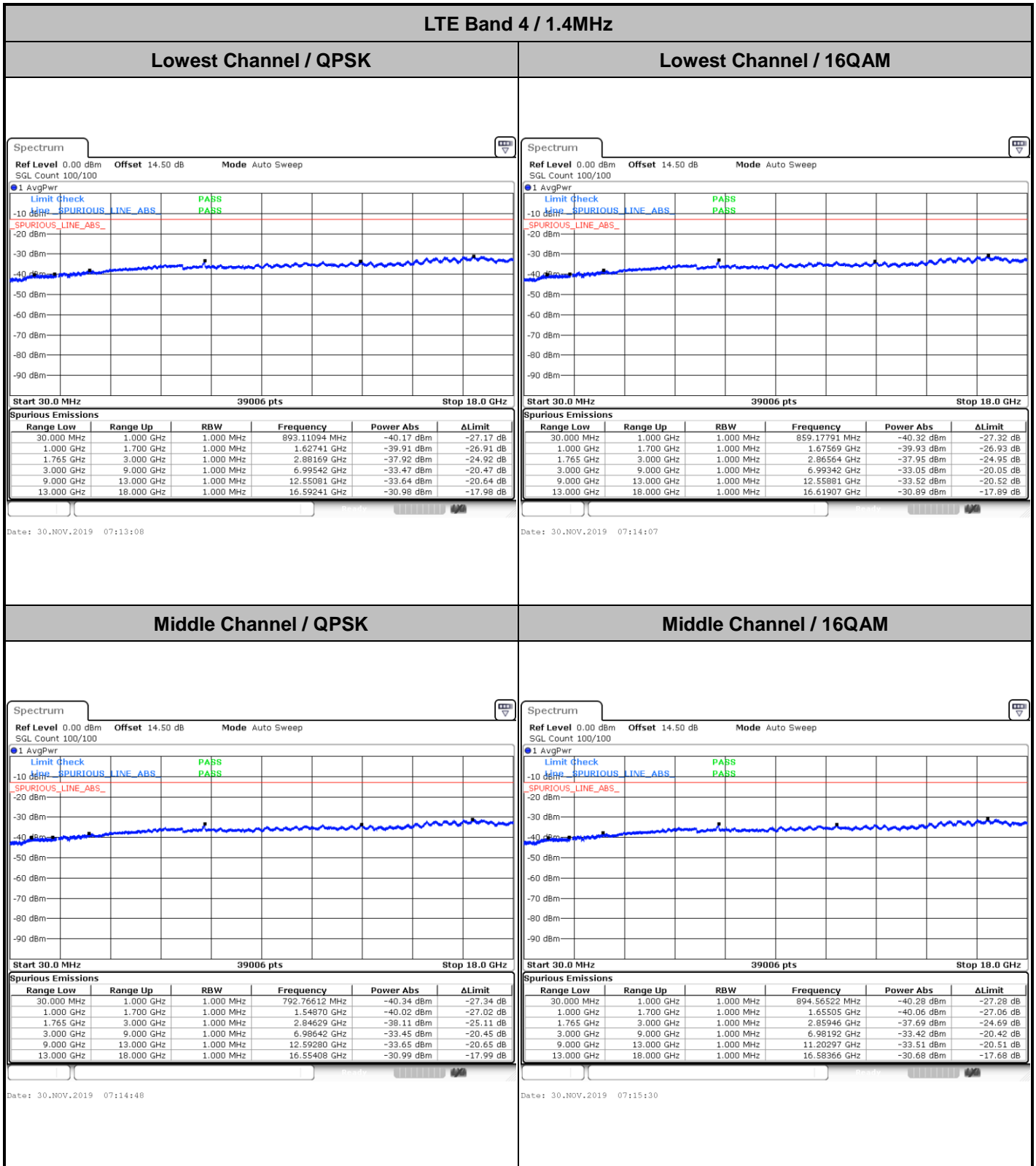


Date: 30.NOV.2019 07:10:08





# Conducted Spurious Emission

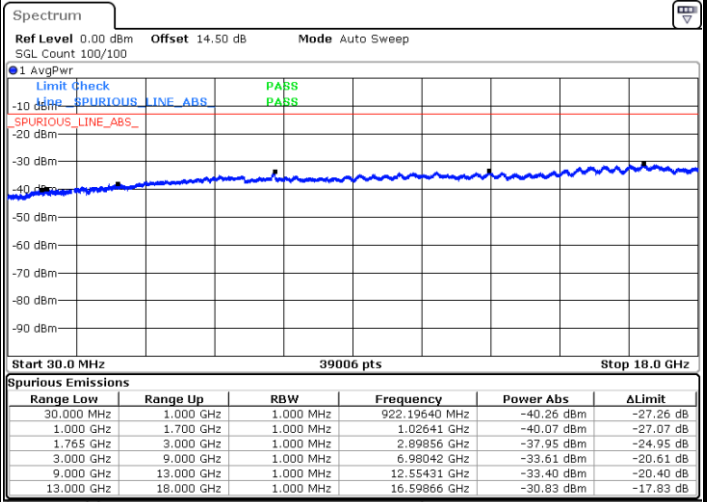
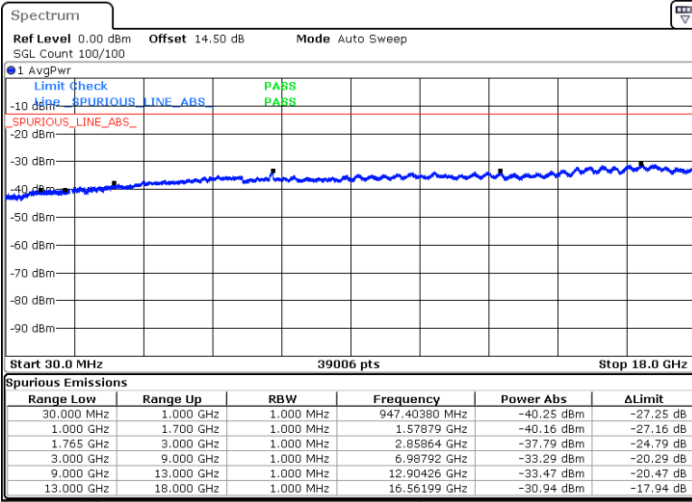




LTE Band 4 / 1.4MHz

Highest Channel / QPSK

Highest Channel / 16QAM



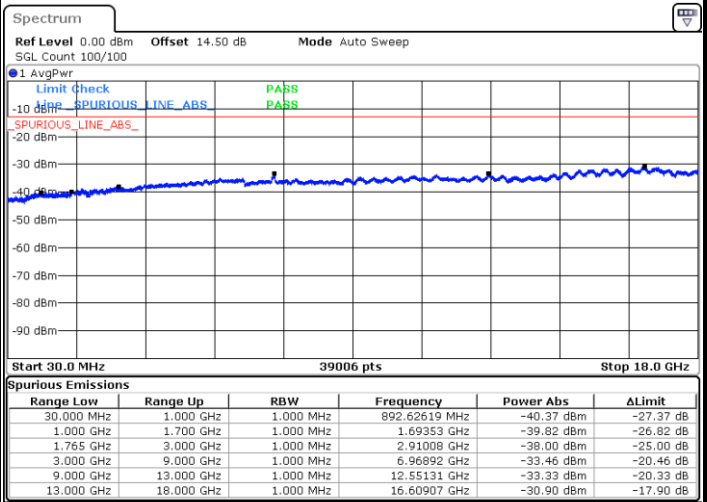
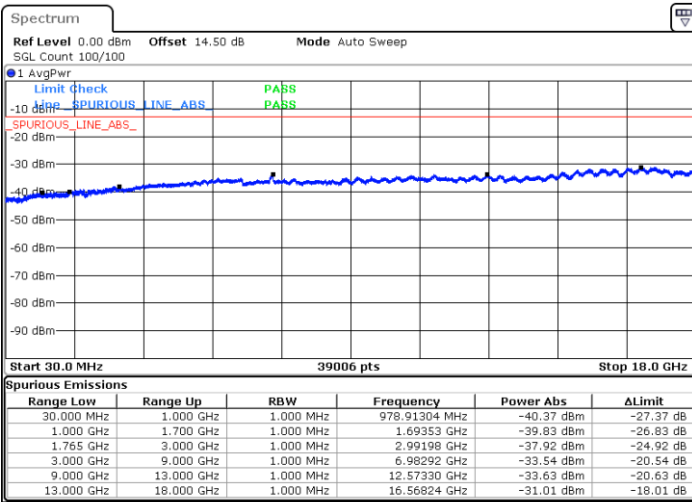
Date: 30.NOV.2019 07:16:12

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

LTE Band 4 / 3MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



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

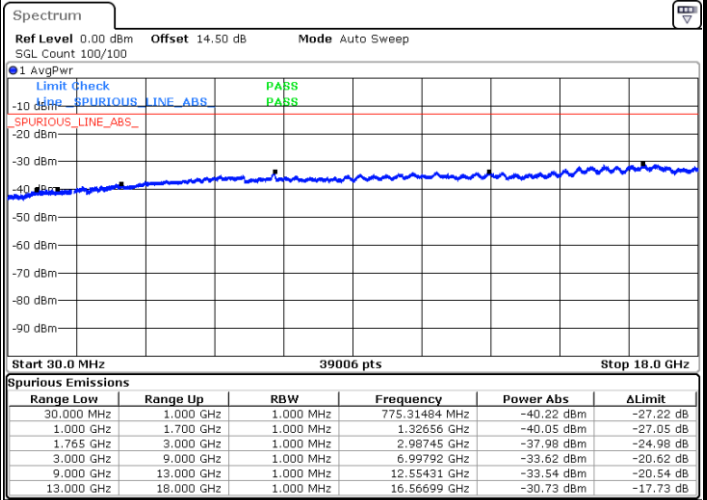
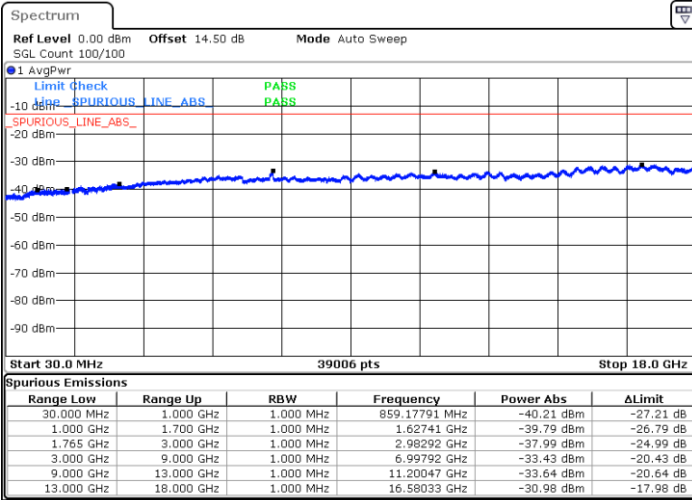
Date: 30.NOV.2019 07:18:17



LTE Band 4 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

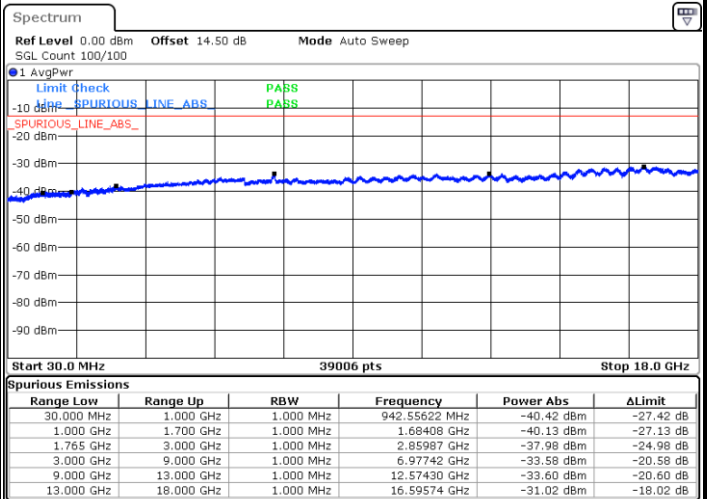
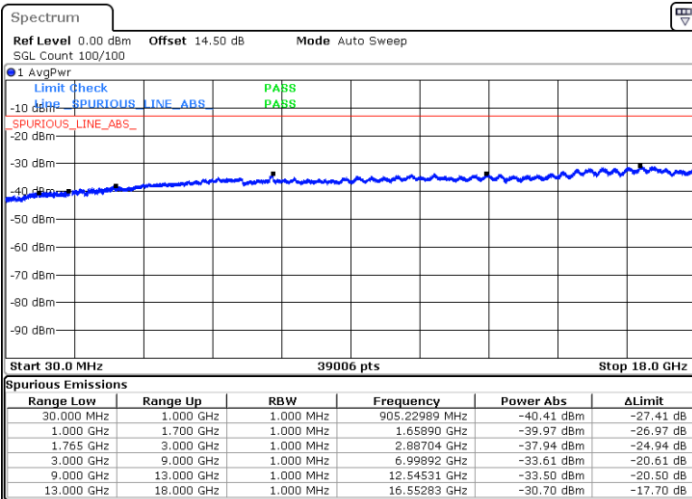


Date: 30.NOV.2019 07:18:59

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

Highest Channel / QPSK

Highest Channel / 16QAM



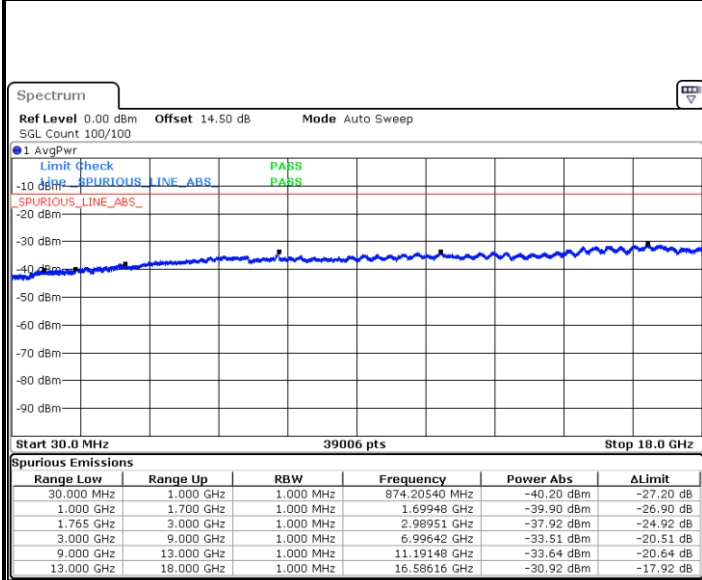
Date: 30.NOV.2019 07:20:22

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



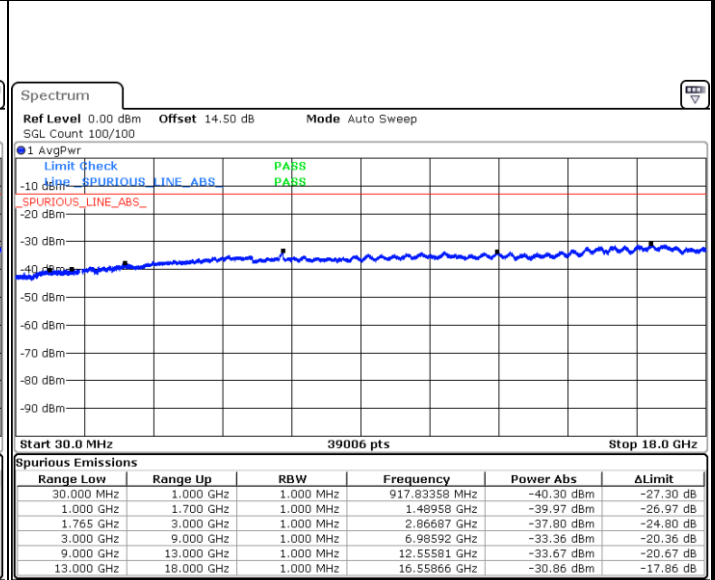
LTE Band 4 / 5MHz

Lowest Channel / QPSK



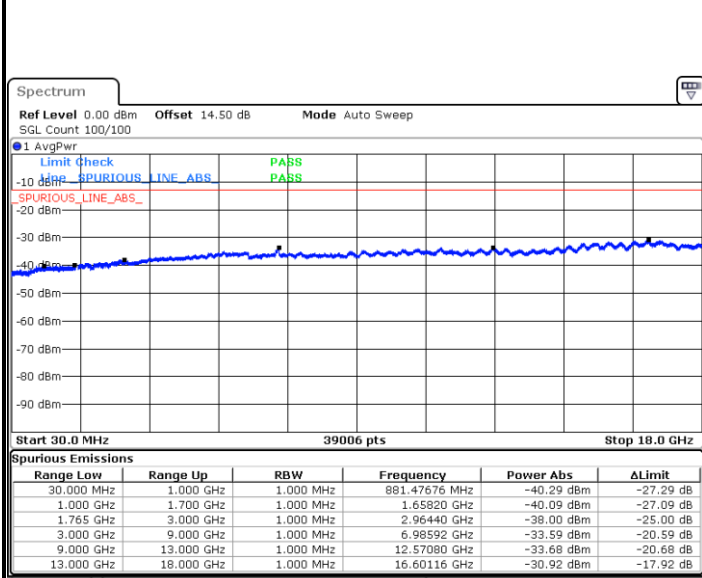
Date: 30.NOV.2019 07:21:45

Lowest Channel / 16QAM



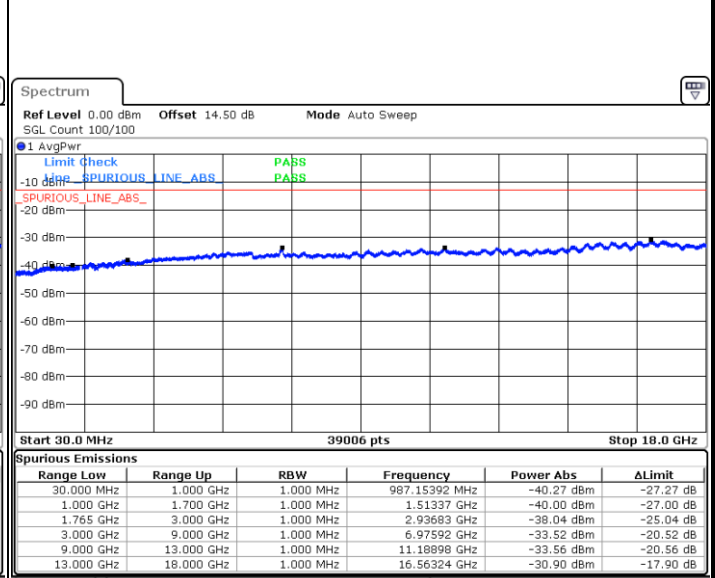
Date: 30.NOV.2019 07:22:27

Middle Channel / QPSK



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

Middle Channel / 16QAM



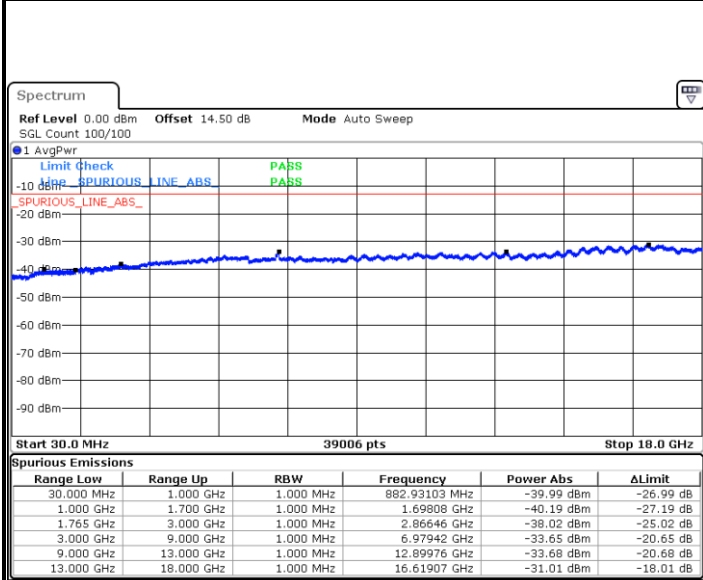
Date: 30.NOV.2019 07:23:50





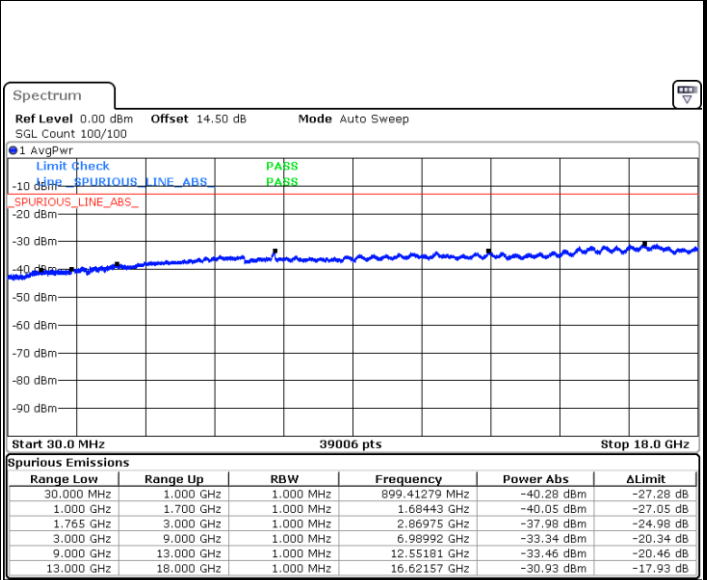
LTE Band 4 / 5MHz

Highest Channel / QPSK



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

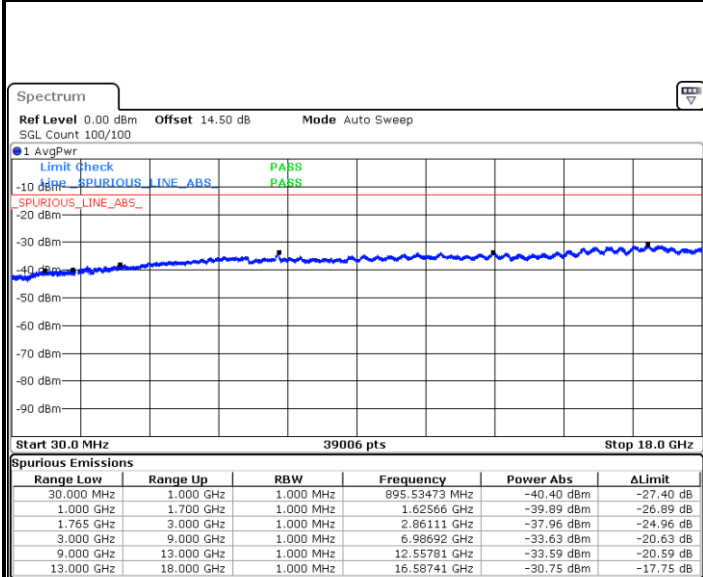
Highest Channel / 16QAM



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

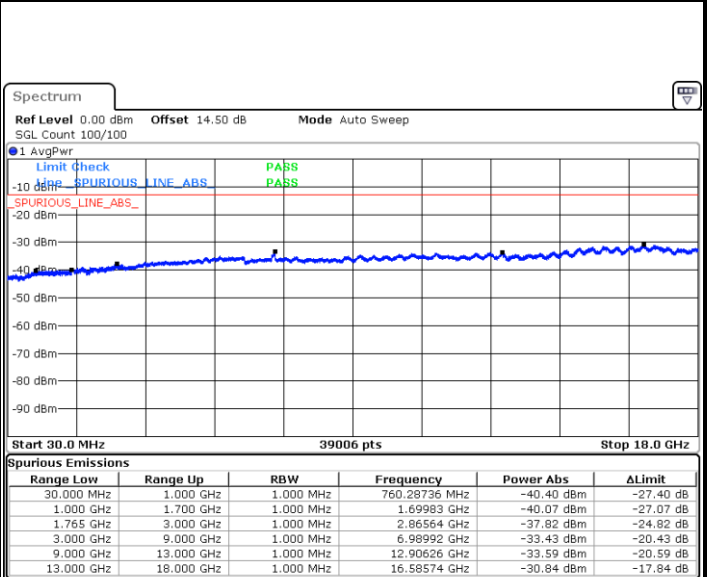
LTE Band 4 / 10MHz

Lowest Channel / QPSK



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

Lowest Channel / 16QAM

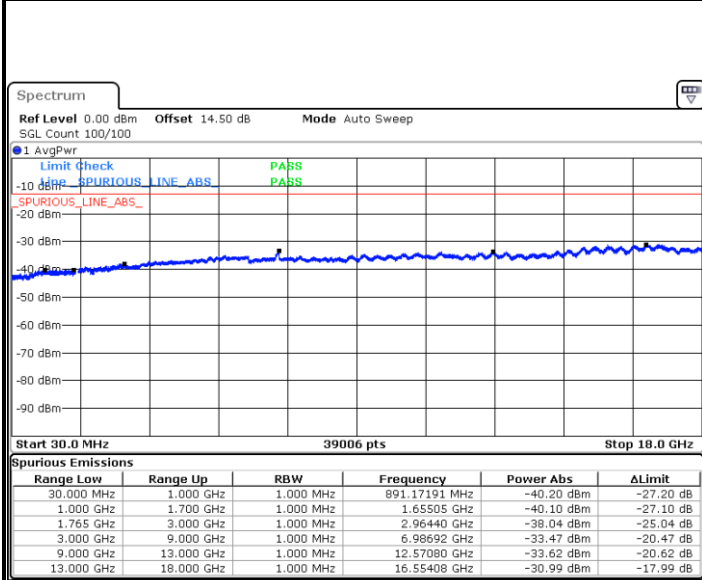


Date: 30.NOV.2019 07:26:37



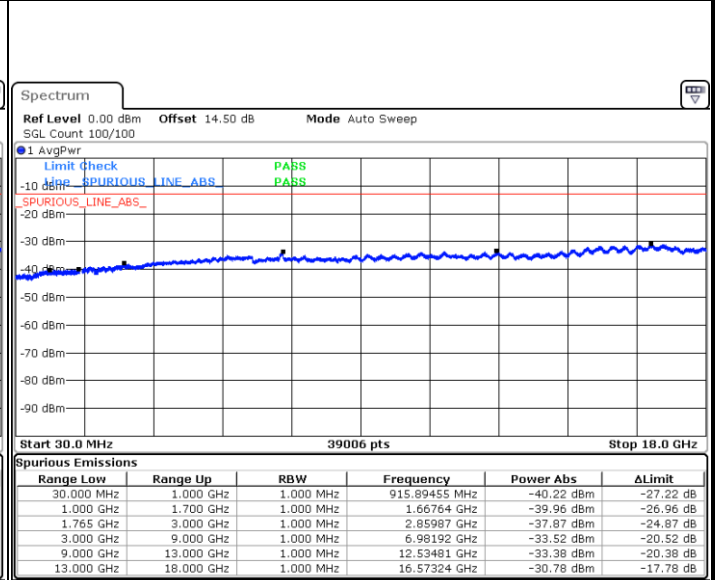
LTE Band 4 / 10MHz

Middle Channel / QPSK



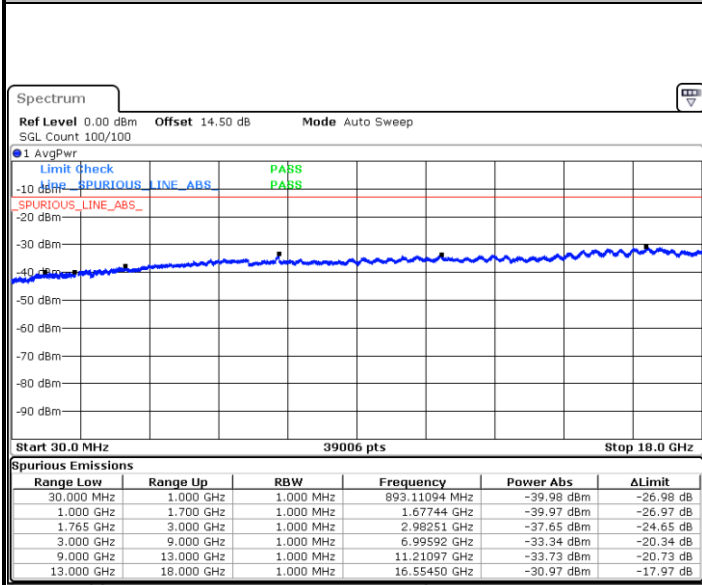
Date: 30.NOV.2019 07:27:19

Middle Channel / 16QAM



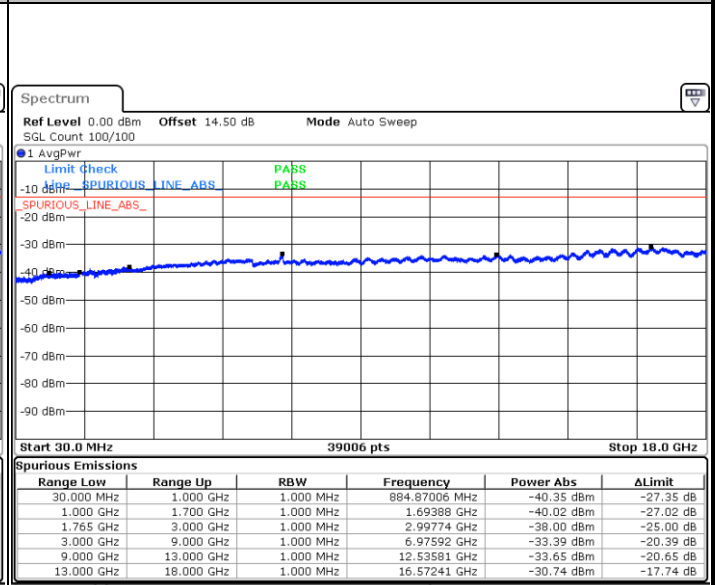
Date: 30.NOV.2019 07:28:01

Highest Channel / QPSK



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

Highest Channel / 16QAM



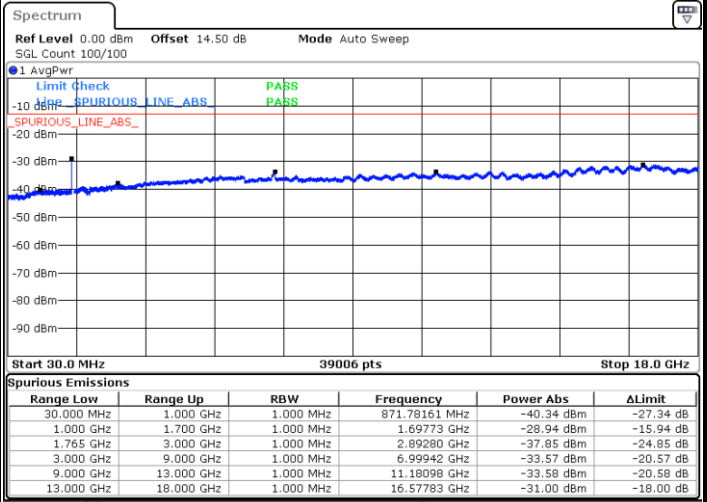
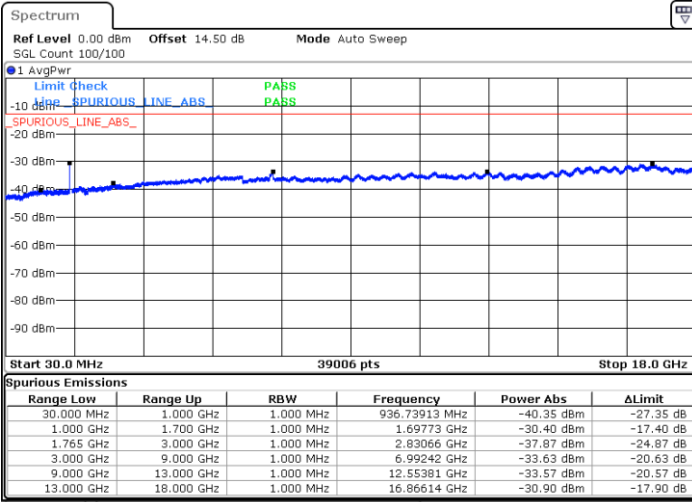
Date: 30.NOV.2019 07:29:24



LTE Band 4 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

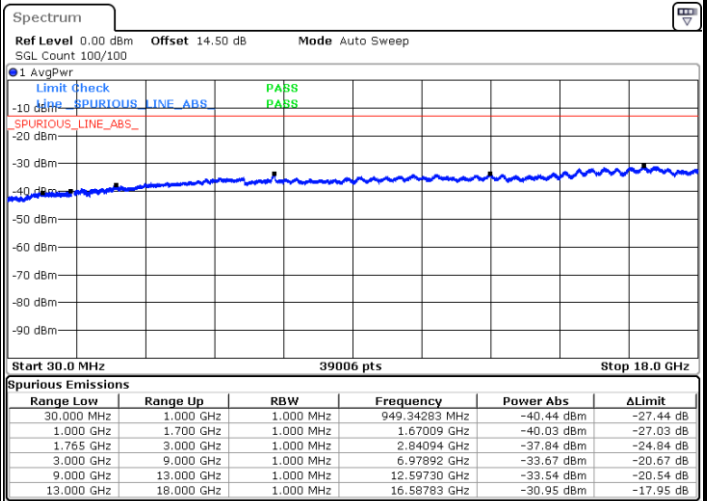
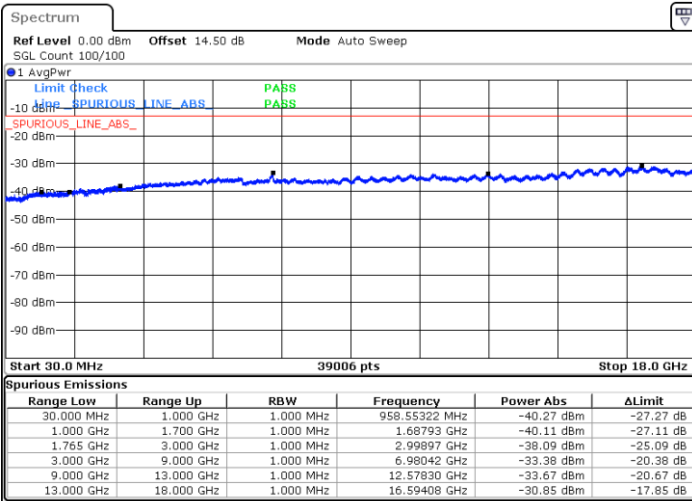


Date: 30.NOV.2019 07:30:06

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

Middle Channel / QPSK

Middle Channel / 16QAM



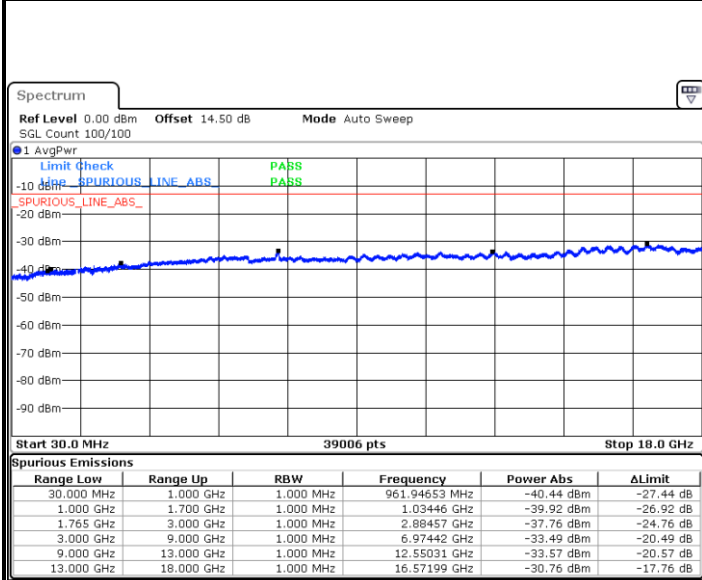
Date: 30.NOV.2019 07:31:29

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



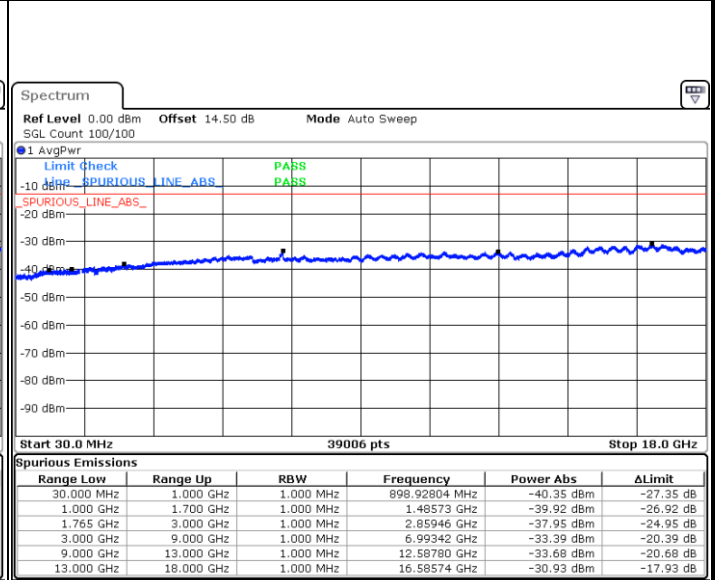
LTE Band 4 / 15MHz

Highest Channel / QPSK



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

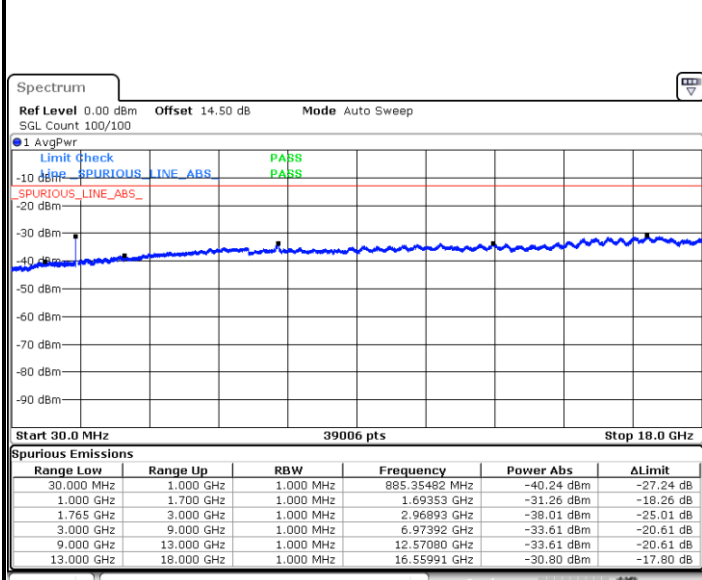
Highest Channel / 16QAM



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

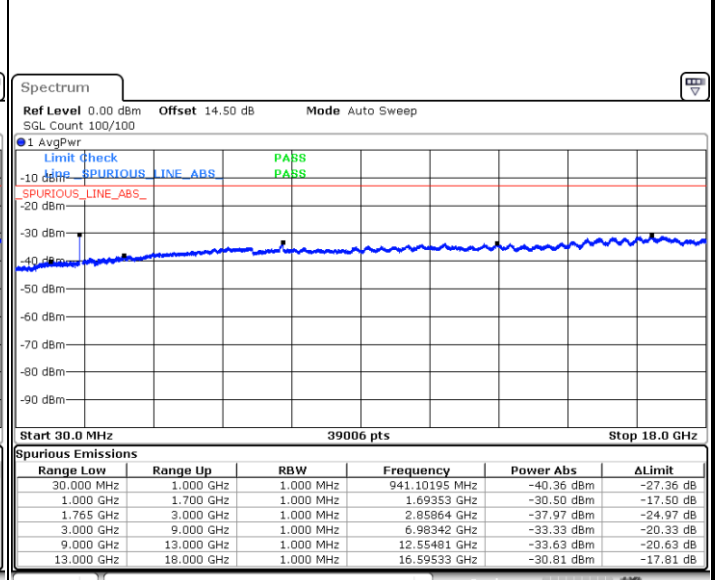
LTE Band 4 / 20MHz

Lowest Channel / QPSK



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

Lowest Channel / 16QAM

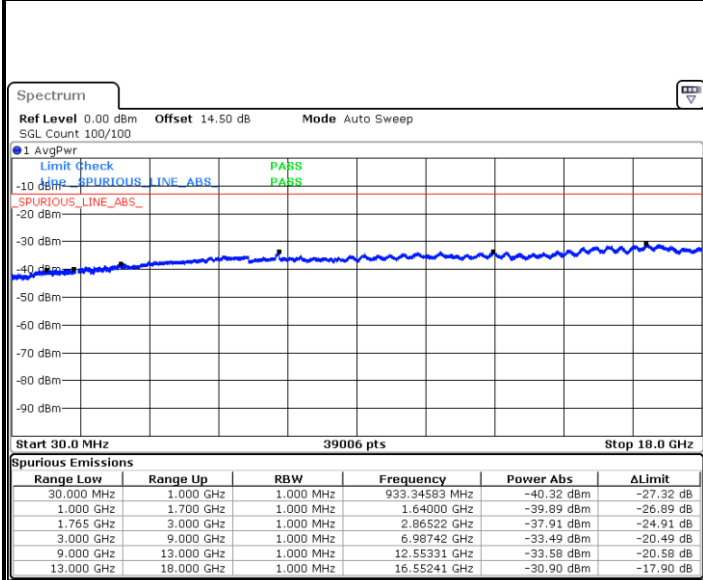


Date: 30.NOV.2019 07:34:56



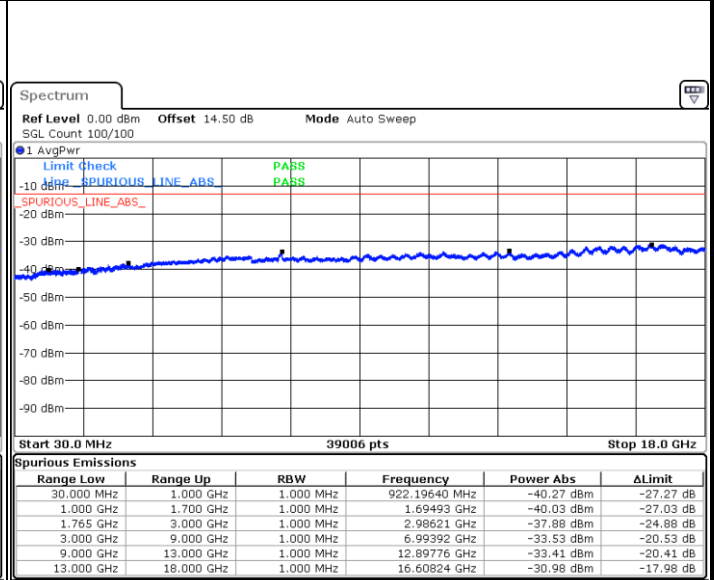
LTE Band 4 / 20MHz

Middle Channel / QPSK



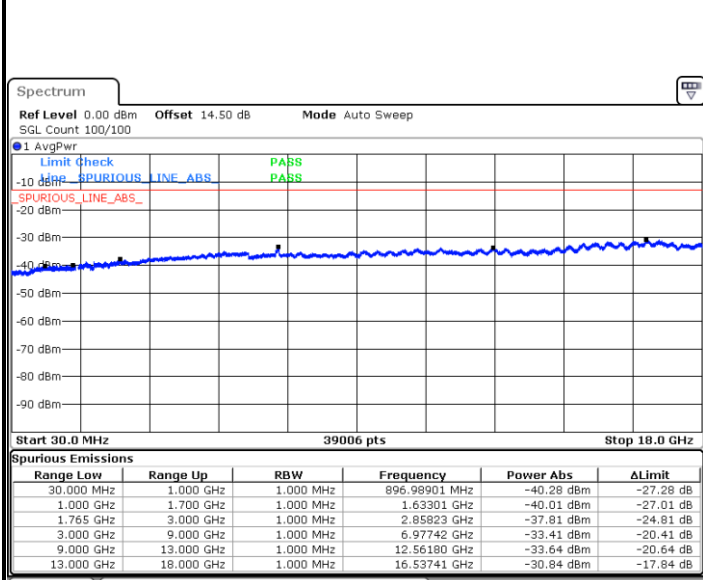
Date: 30.NOV.2019 07:35:37

Middle Channel / 16QAM



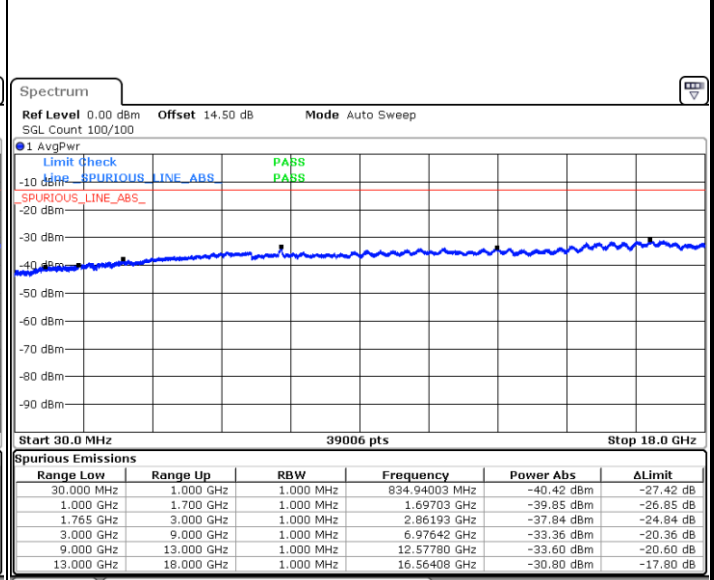
Date: 30.NOV.2019 07:36:18

Highest Channel / QPSK



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

Highest Channel / 16QAM



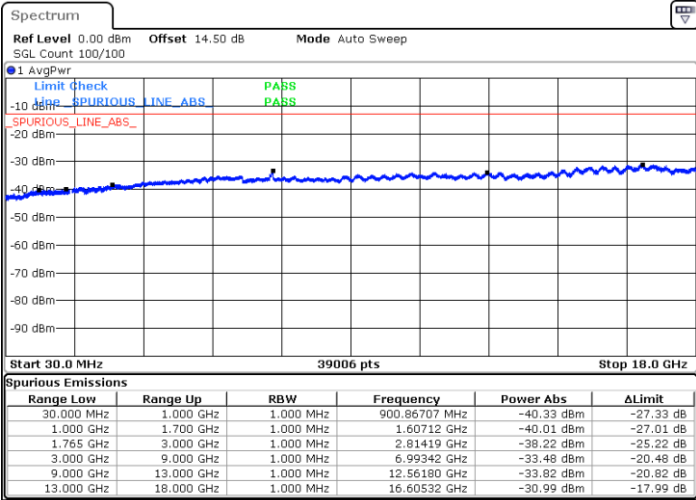
Date: 30.NOV.2019 07:37:41



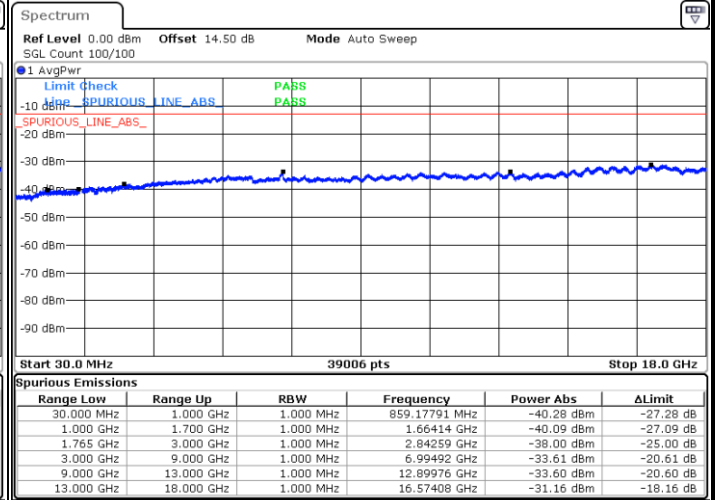
LTE Band 4 / 1.4MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

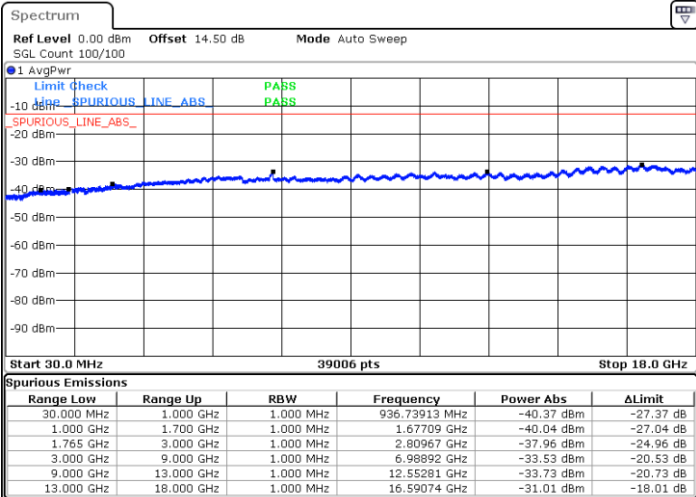


Date: 5. DEC. 2019 14:03:36



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

Highest Channel / 64QAM

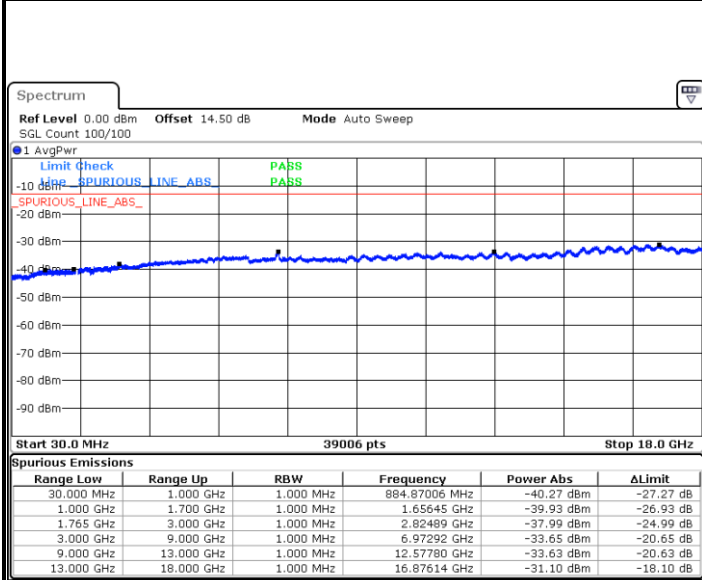


Date: 5. DEC. 2019 13:59:39



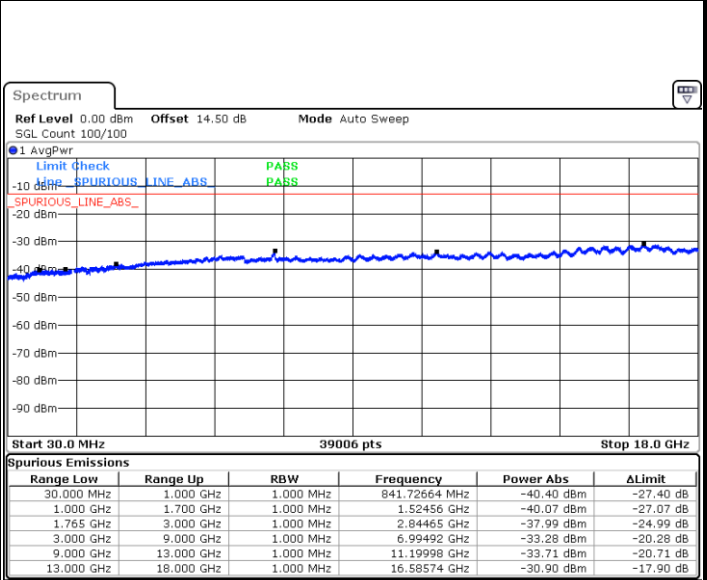
LTE Band 4 / 3MHz

Lowest Channel / 64QAM



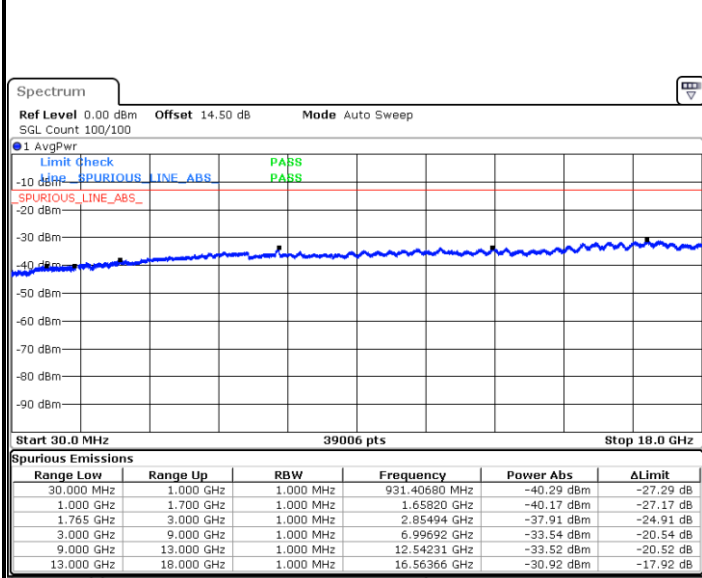
Date: 5.DEC.2019 14:09:05

Middle Channel / 64QAM

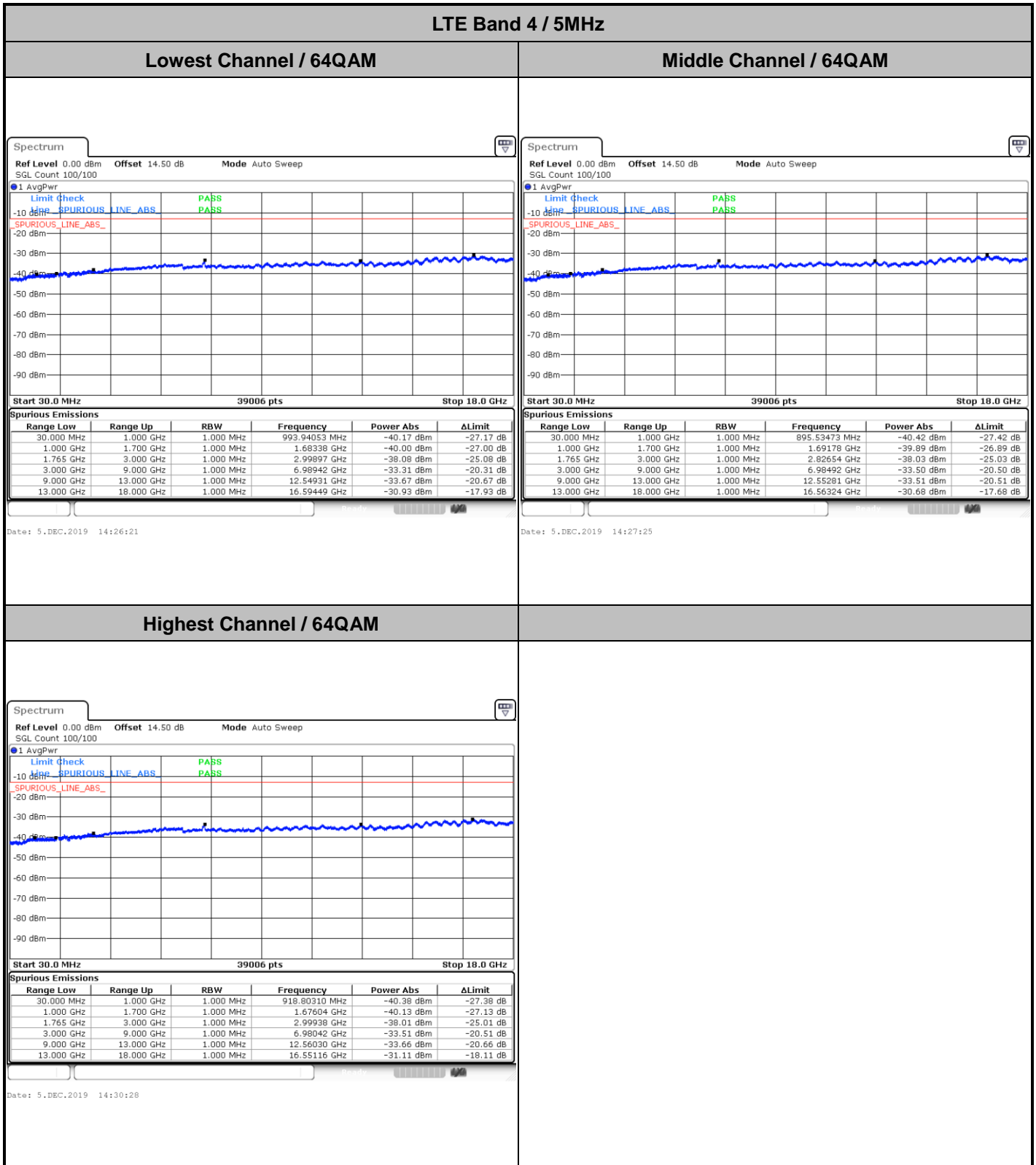


Date: 5.DEC.2019 14:09:52

Highest Channel / 64QAM



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



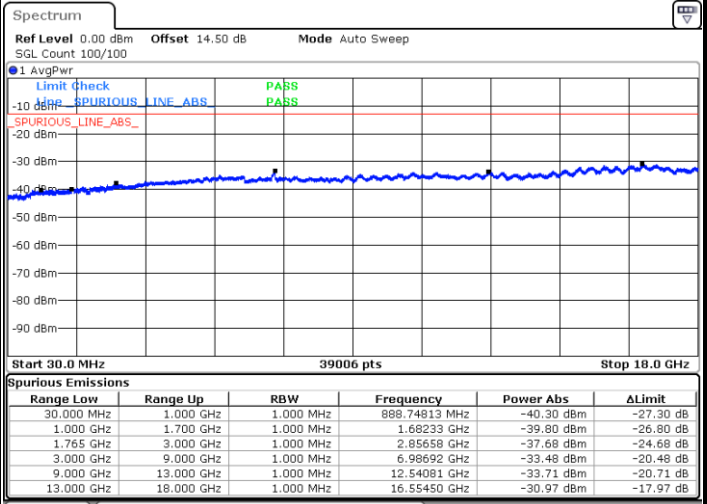
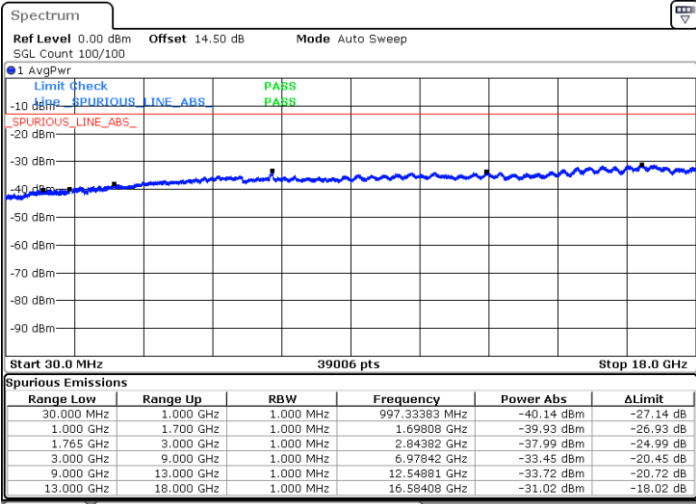




LTE Band 4 / 10MHz

Lowest Channel / 64QAM

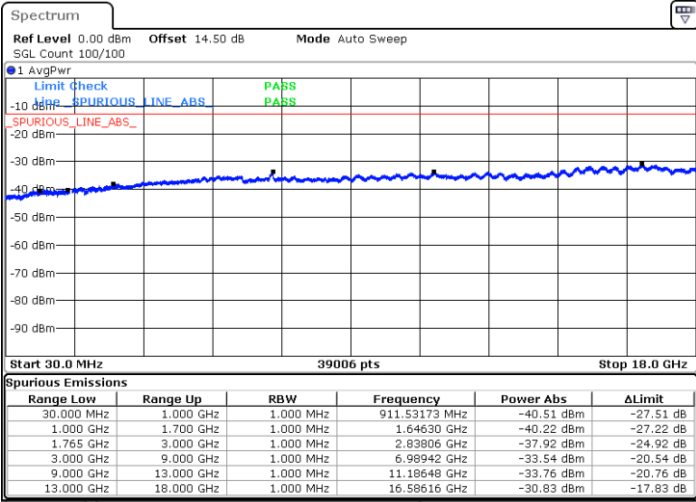
Middle Channel / 64QAM



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

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

Highest Channel / 64QAM



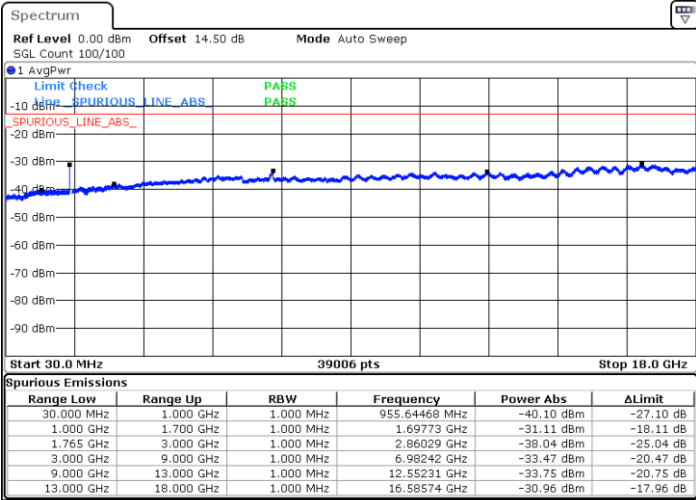
Date: 5.DEC.2019 14:37:41



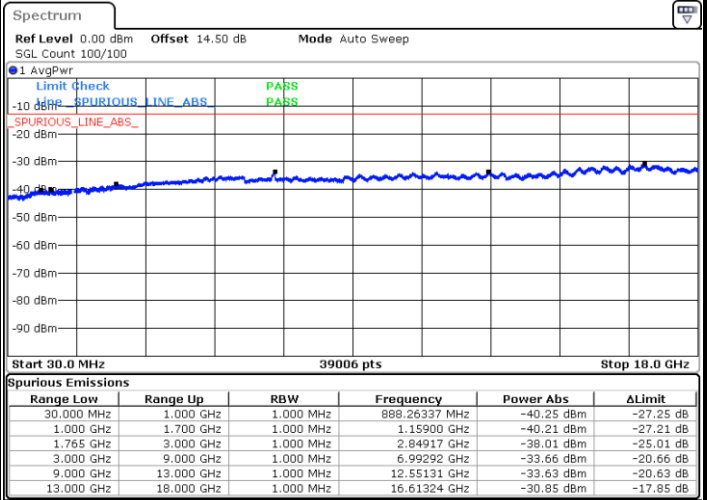
LTE Band 4 / 15MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

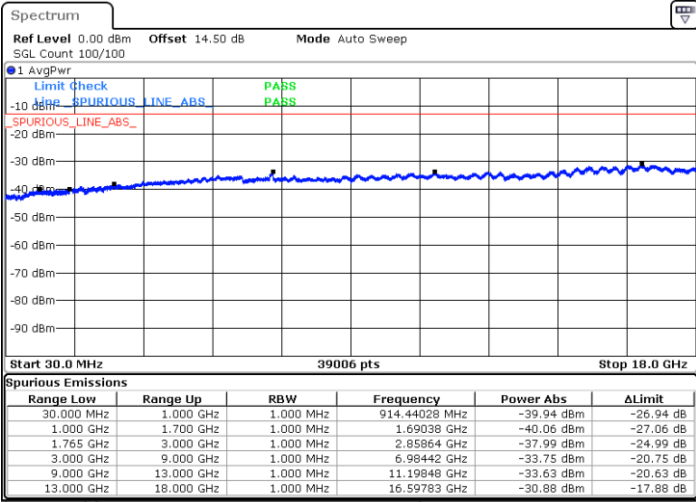


Date: 5.DEC.2019 14:40:44



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

Highest Channel / 64QAM



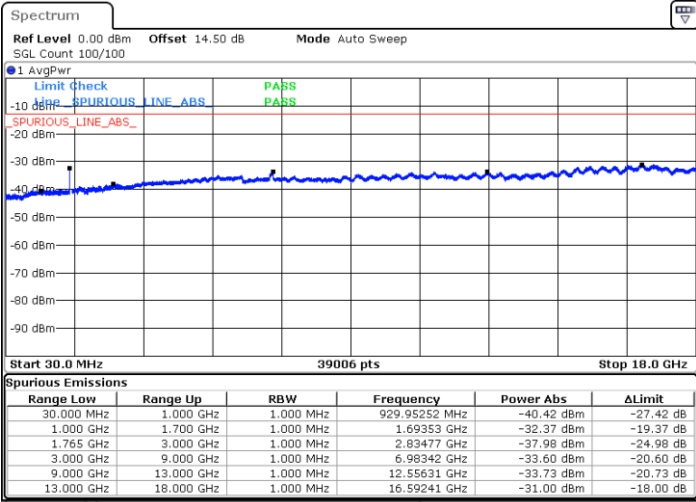
Date: 5.DEC.2019 14:44:52



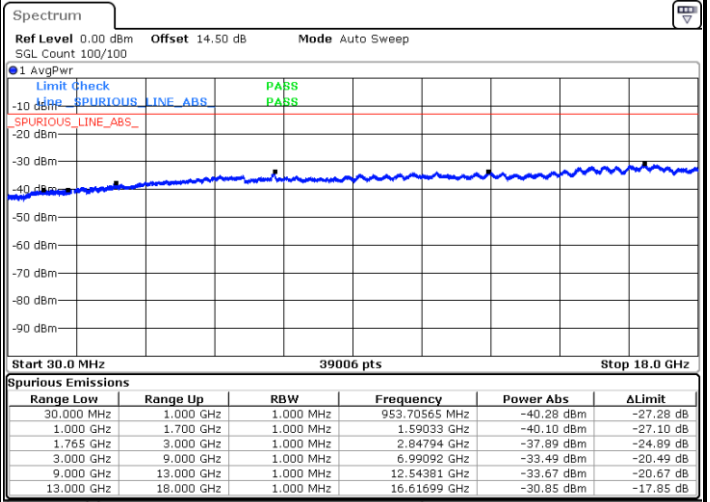
LTE Band 4 / 20MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

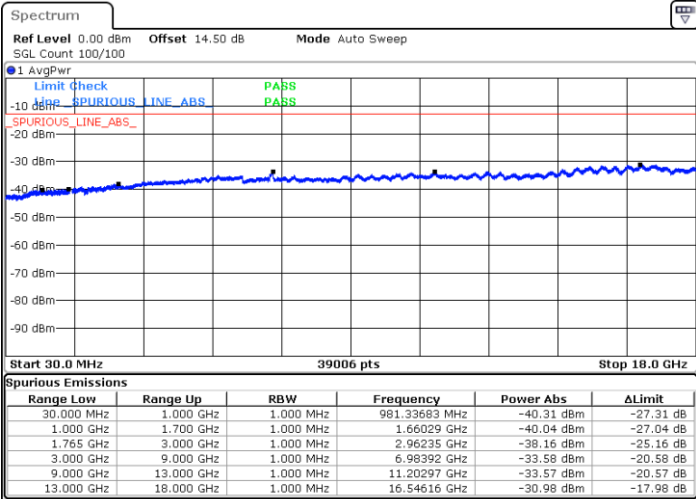


Date: 5.DEC.2019 14:47:56



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

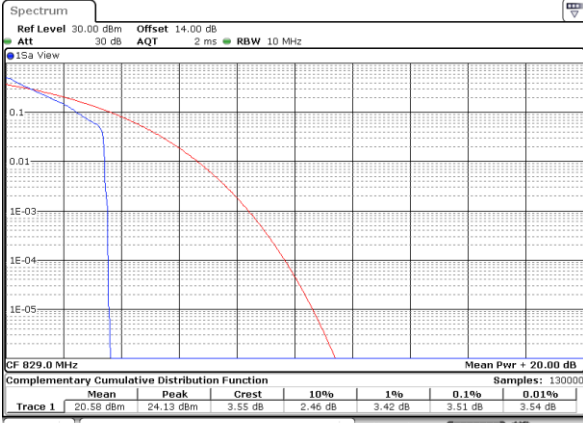
## Peak-to-Average Ratio

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	<b>PASS</b>
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			<b>PASS</b>
Middle CH	5.54	5.88			
Highest CH	5.54	6.00			



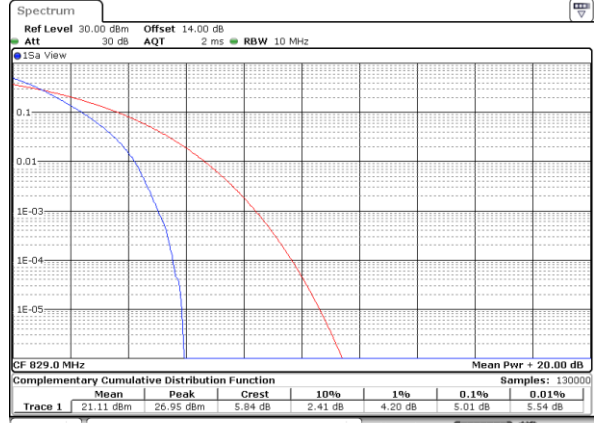
LTE Band 5 / 10MHz / QPSK

Lowest Channel / 1RB



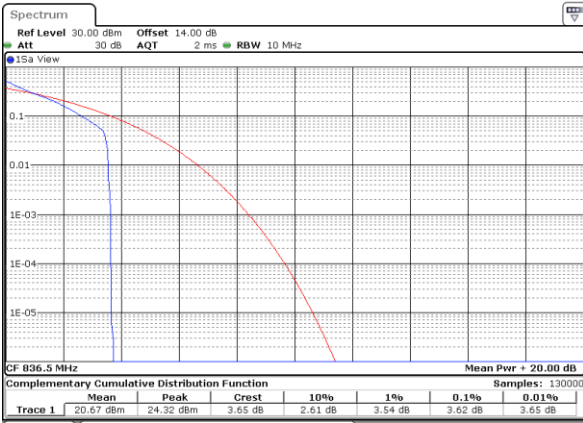
Date: 16.DEC.2019 11:48:31

Lowest Channel / Full RB



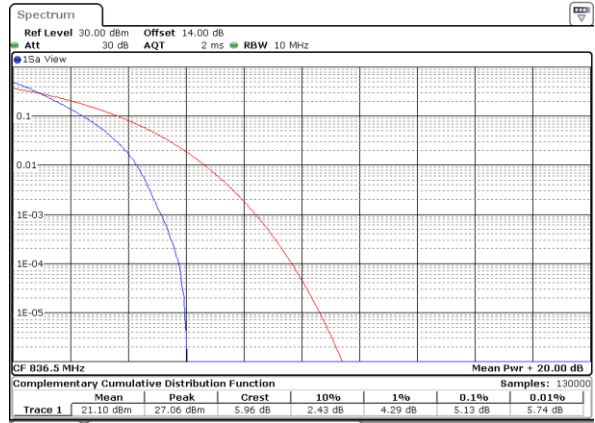
Date: 16.DEC.2019 11:48:44

Middle Channel / 1RB



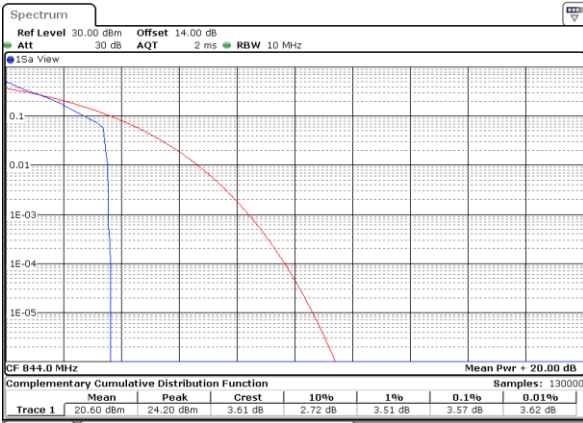
Date: 16.DEC.2019 11:48:59

Middle Channel / Full RB



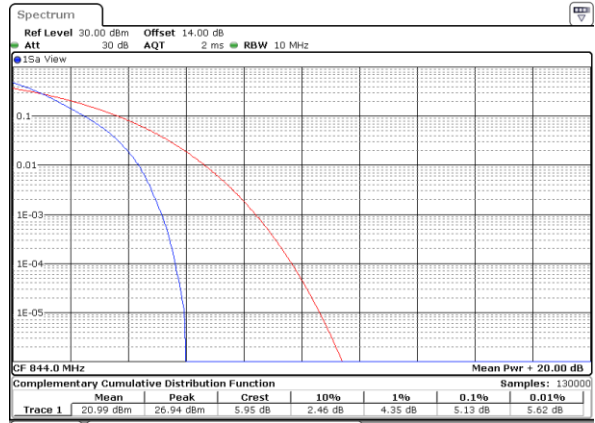
Date: 16.DEC.2019 11:49:10

Highest Channel / 1RB



Date: 16.DEC.2019 11:49:23

Highest Channel / Full RB



Date: 16.DEC.2019 11:49:33



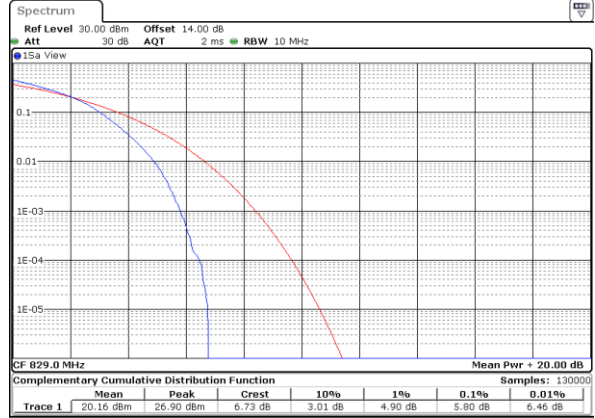
LTE Band 5 / 10MHz / 16QAM

Lowest Channel / 1RB



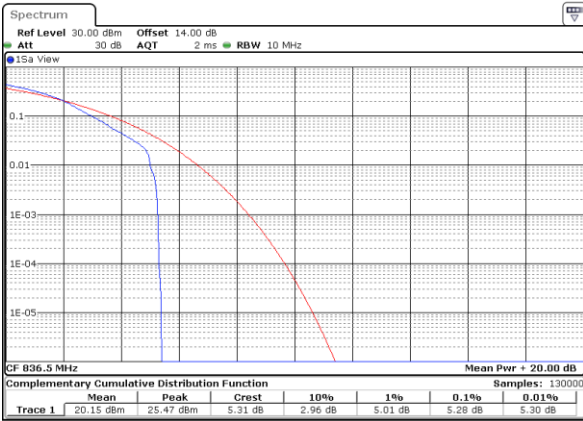
Date: 16.DEC.2019 11:46:33

Lowest Channel / Full RB



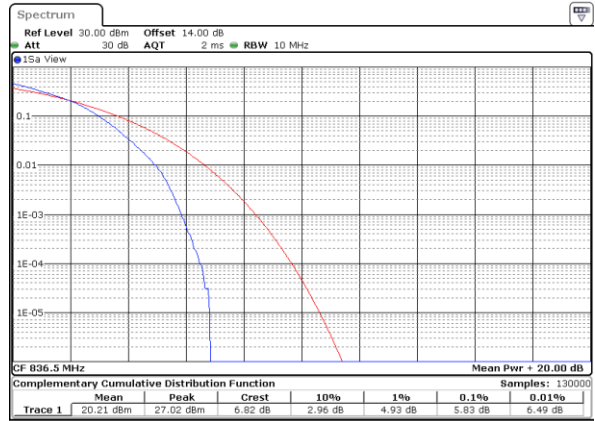
Date: 16.DEC.2019 11:46:46

Middle Channel / 1RB



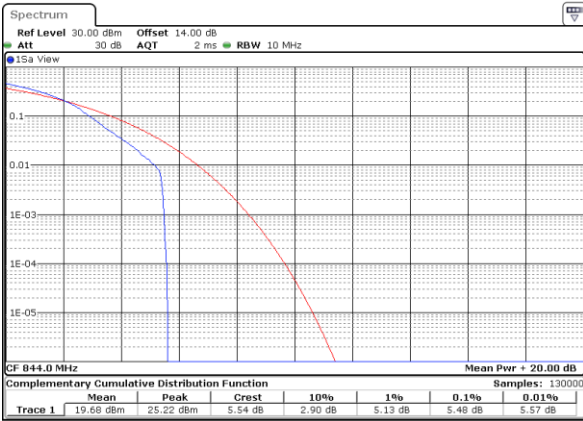
Date: 16.DEC.2019 11:47:01

Middle Channel / Full RB



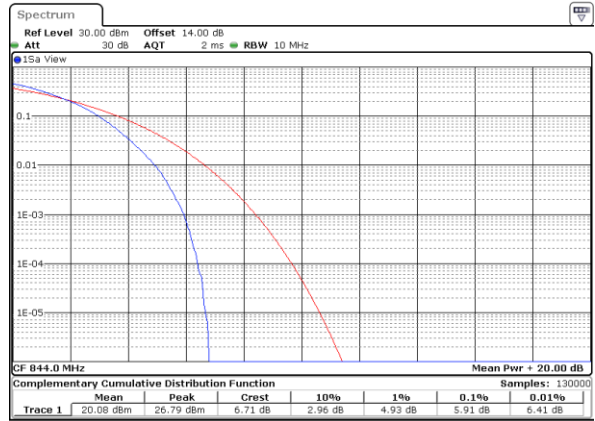
Date: 16.DEC.2019 11:47:16

Highest Channel / 1RB



Date: 16.DEC.2019 11:47:56

Highest Channel / Full RB

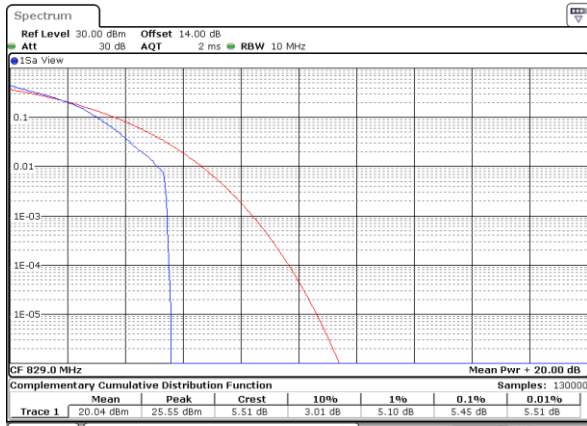


Date: 16.DEC.2019 11:48:16



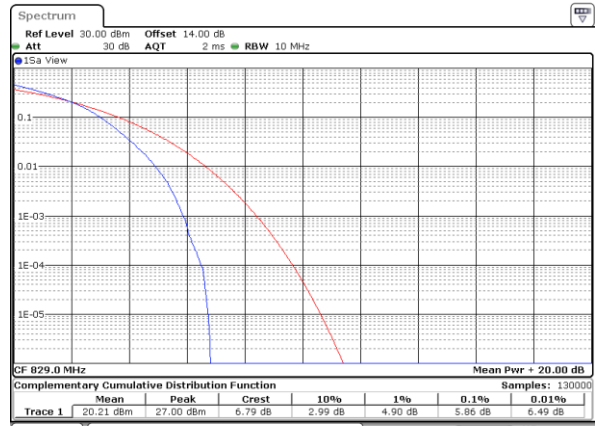
LTE Band 5 / 10MHz / 64QAM

Lowest Channel / 1RB



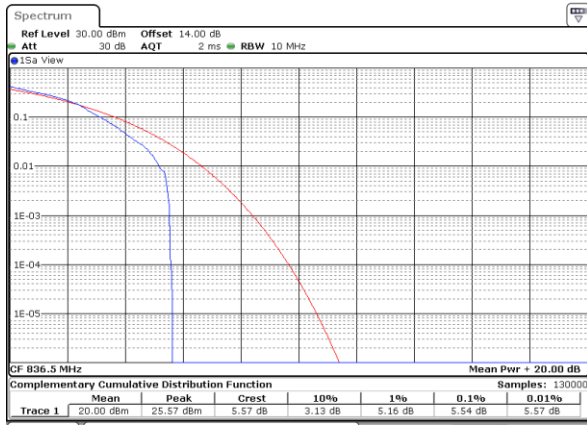
Date: 16.DEC.2019 11:49:44

Lowest Channel / Full RB



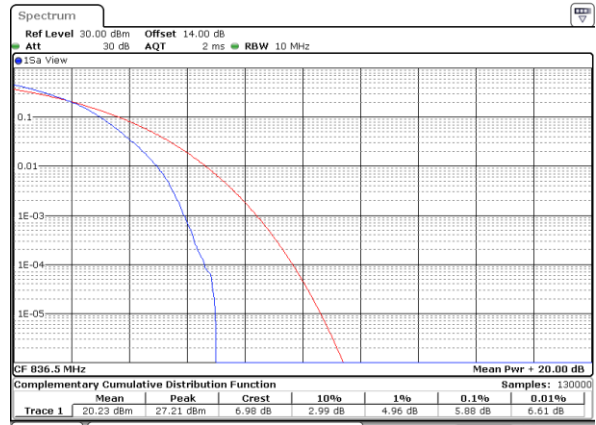
Date: 16.DEC.2019 11:50:15

Middle Channel / 1RB



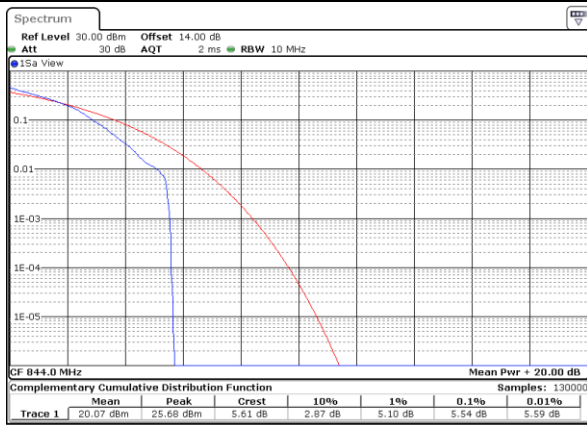
Date: 16.DEC.2019 11:52:02

Middle Channel / Full RB



Date: 16.DEC.2019 11:52:53

Highest Channel / 1RB



Date: 16.DEC.2019 11:53:05

Highest Channel / Full RB



Date: 16.DEC.2019 11:53:43





**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	-				