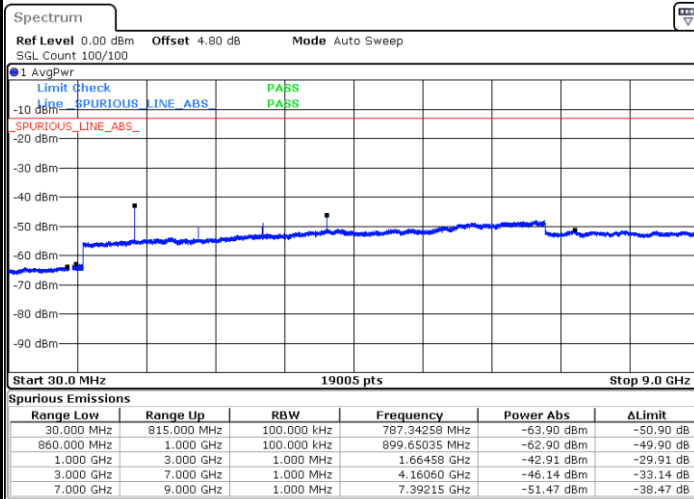


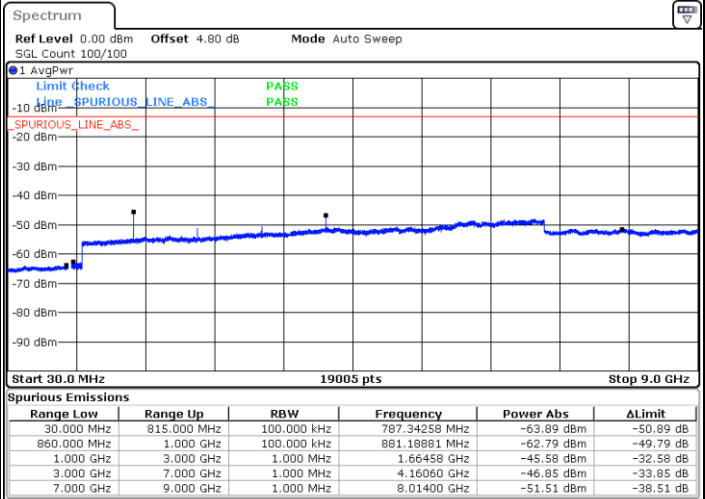


LTE Band 5 / 10MHz

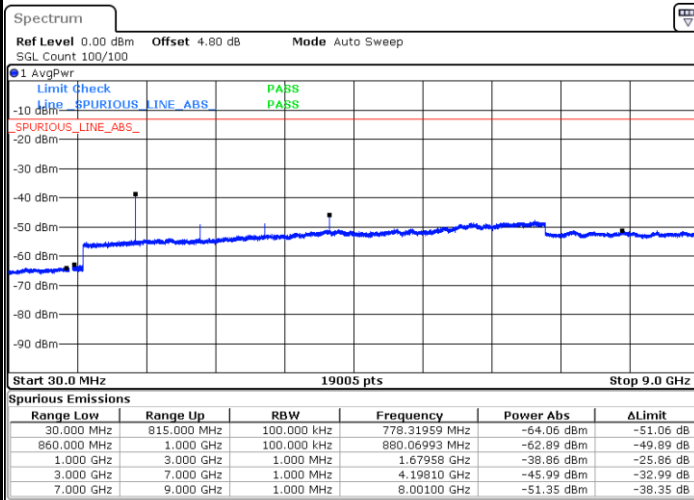
Middle Channel / QPSK



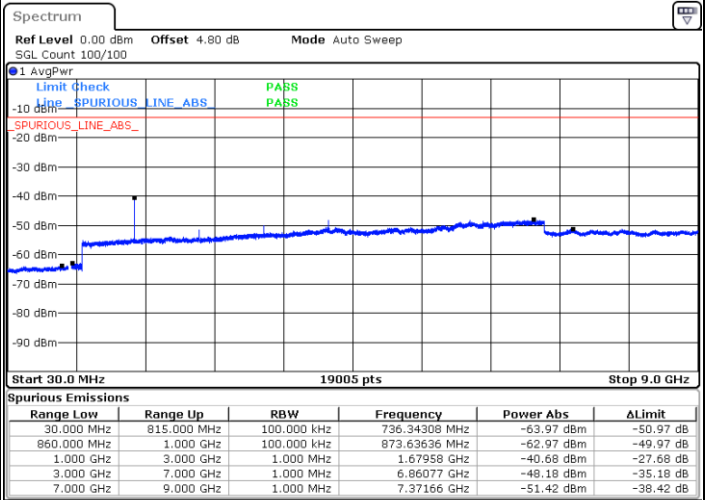
Middle Channel / 16QAM



Highest Channel / QPSK



Highest Channel / 16QAM



Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0022	PASS
40	Normal Voltage	0.0027	
30	Normal Voltage	0.0060	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0066	
0	Normal Voltage	0.0068	
-10	Normal Voltage	0.0061	
-20	Normal Voltage	0.0032	
-30	Normal Voltage	0.0019	
20	Maximum Voltage	0.0061	
20	Normal Voltage	0.0069	
20	Battery End Point	0.0022	

Note:

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



LTE Band 7

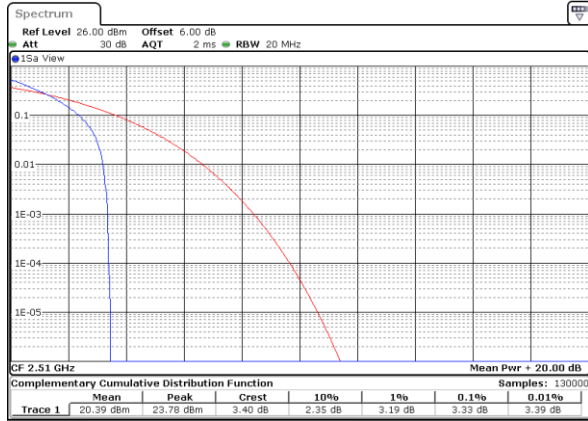
Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.33	4.03	4.09	5.07	PASS
Middle CH	3.01	4.23	3.91	5.28	
Highest CH	3.19	3.88	3.97	4.93	

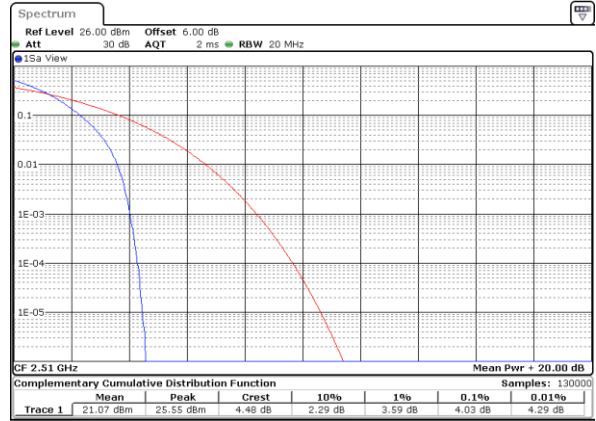


LTE Band 7 / 20MHz / QPSK

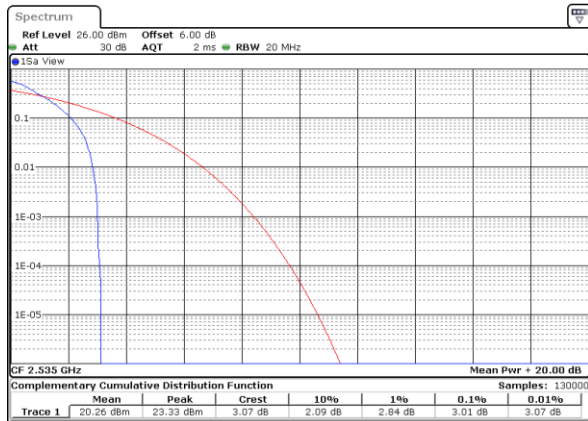
Lowest Channel / 1RB



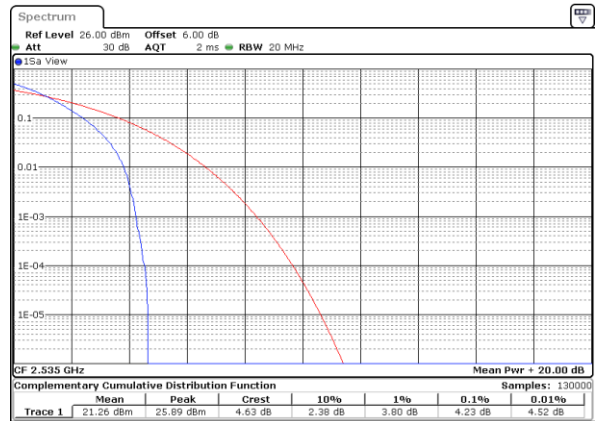
Lowest Channel / Full RB



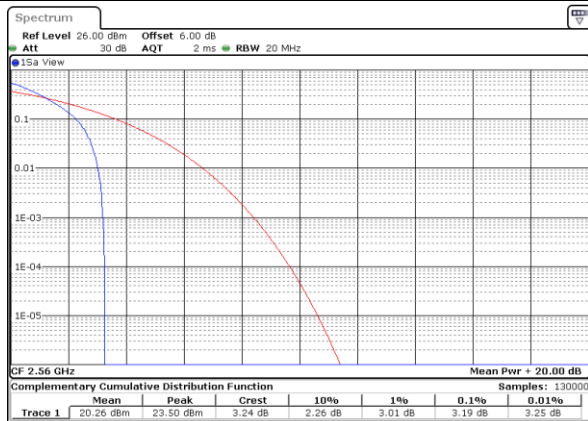
Middle Channel / 1RB



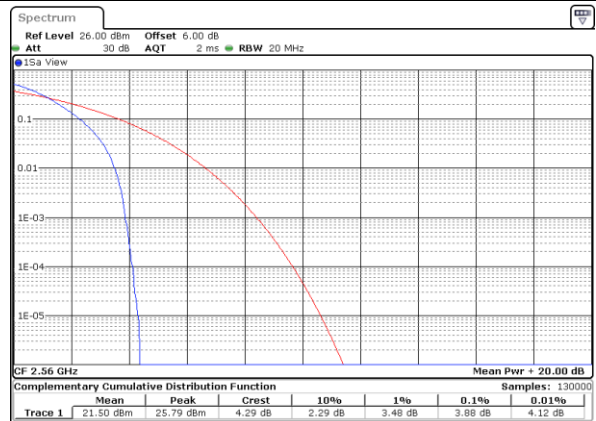
Middle Channel / Full RB



Highest Channel / 1RB



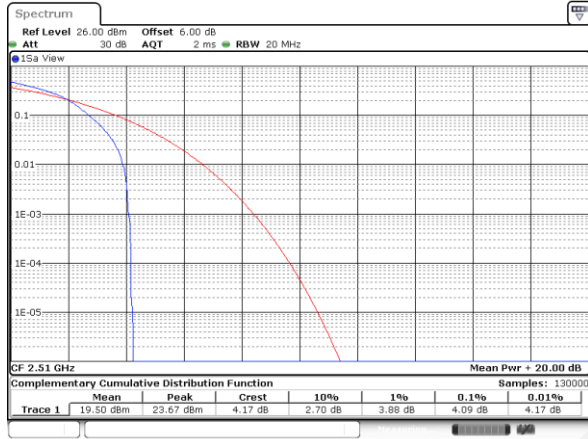
Highest Channel / Full RB



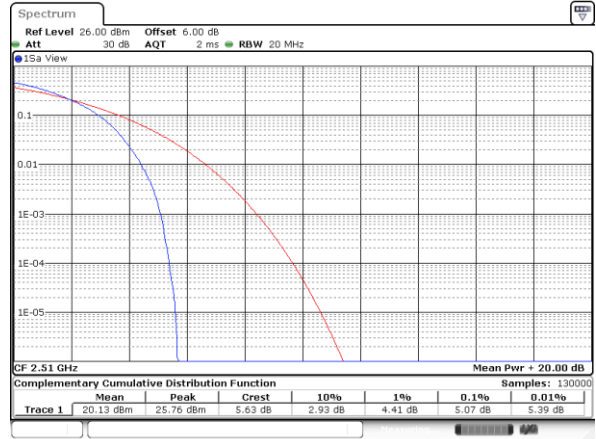


LTE Band 7 / 20MHz / 16QAM

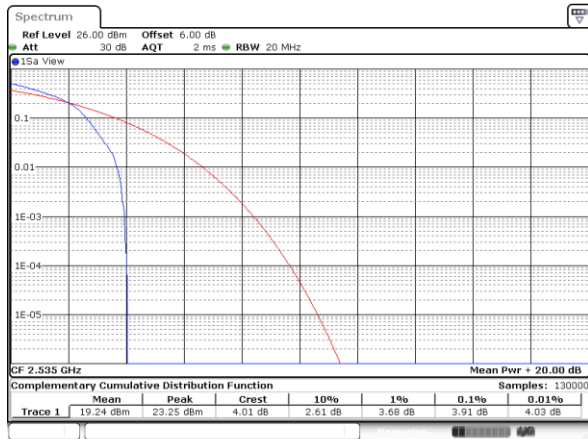
Lowest Channel / 1RB



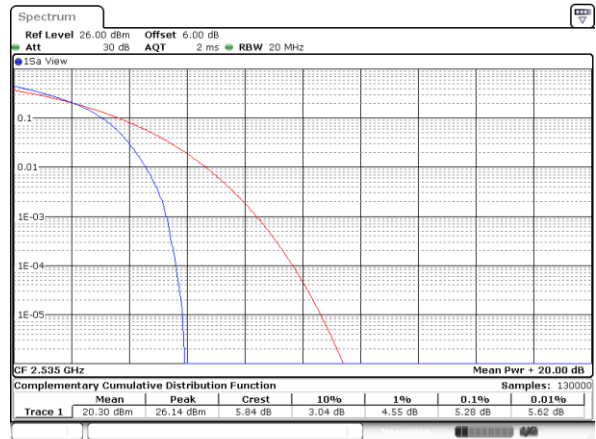
Lowest Channel / Full RB



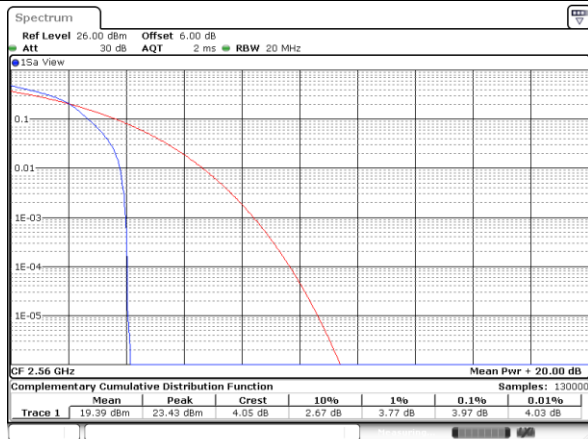
Middle Channel / 1RB



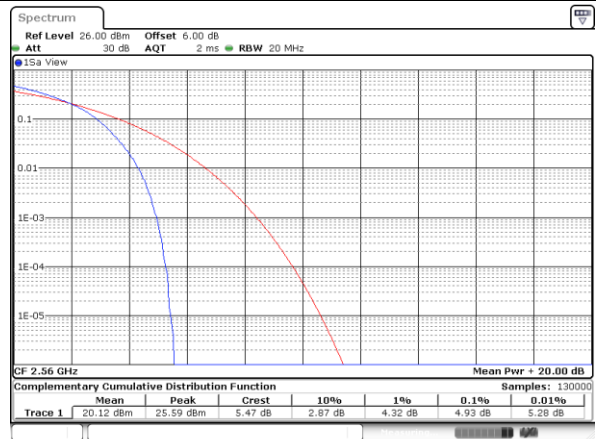
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



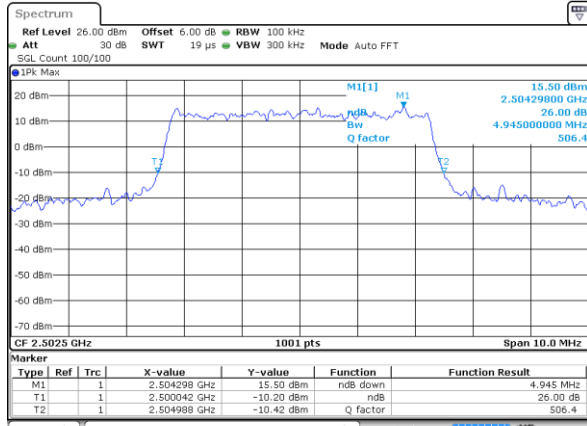
**26dB Bandwidth**

Mode	LTE Band 7 : 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					4.945	4.905	9.79	9.77	14.476	14.236	20.34	20.06
Middle CH					4.945	4.905	9.73	9.83	14.296	14.356	20.14	20.18
Highest CH					4.925	4.935	9.75	9.75	14.326	14.416	20.779	20.26



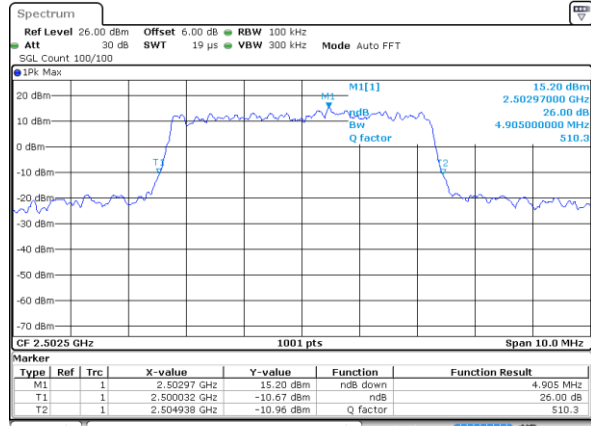
LTE Band 7

Lowest Channel / 5MHz / QPSK



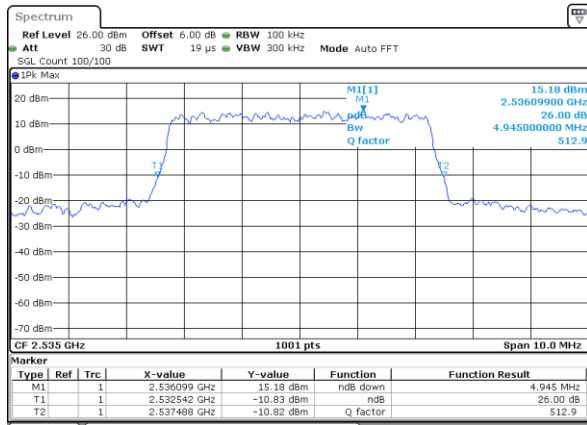
Date: 9 NOV 2019 09:20:48

Lowest Channel / 5MHz / 16QAM



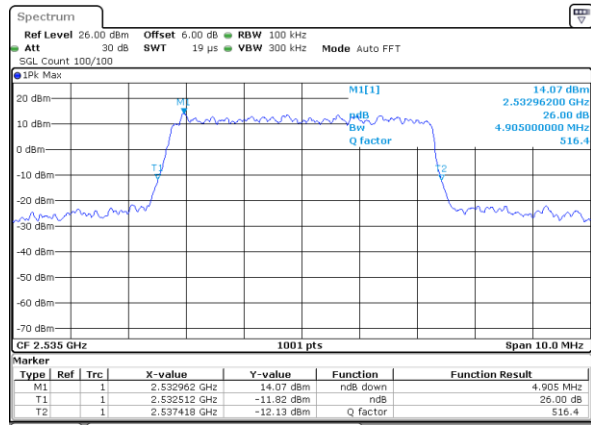
Date: 9 NOV 2019 09:21:08

Middle Channel / 5MHz / QPSK



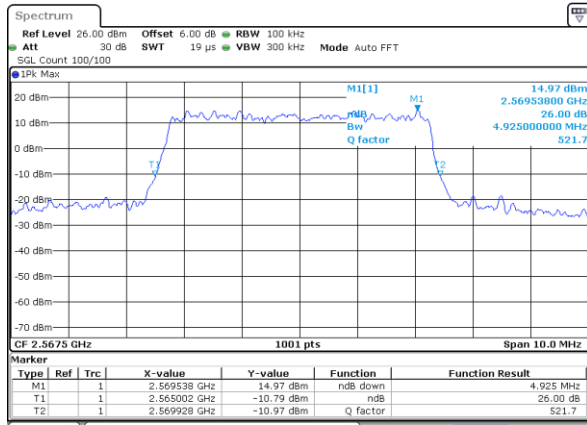
Date: 9 NOV 2019 09:21:48

Middle Channel / 5MHz / 16QAM



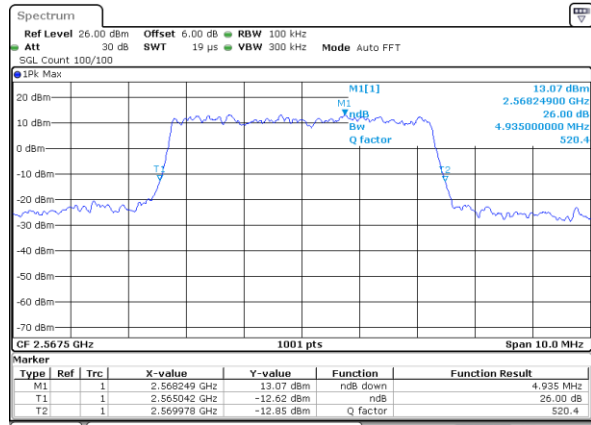
Date: 9 NOV 2019 09:21:28

Highest Channel / 5MHz / QPSK



Date: 9 NOV 2019 09:22:08

Highest Channel / 5MHz / 16QAM

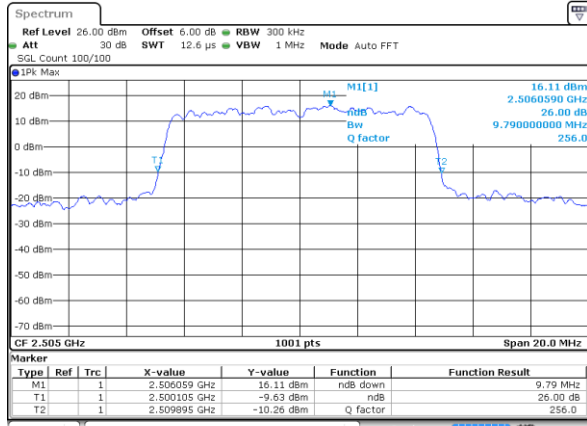


Date: 9 NOV 2019 09:22:28

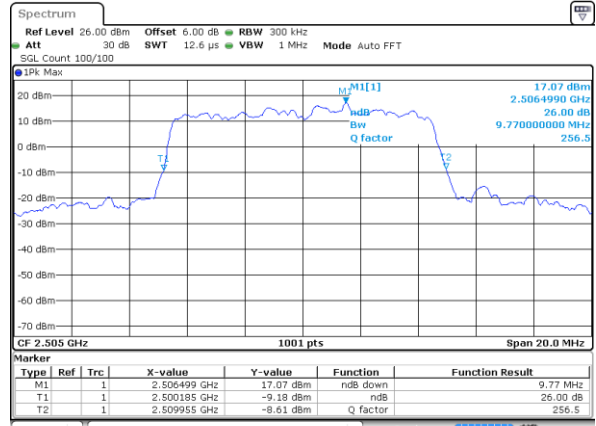


LTE Band 7

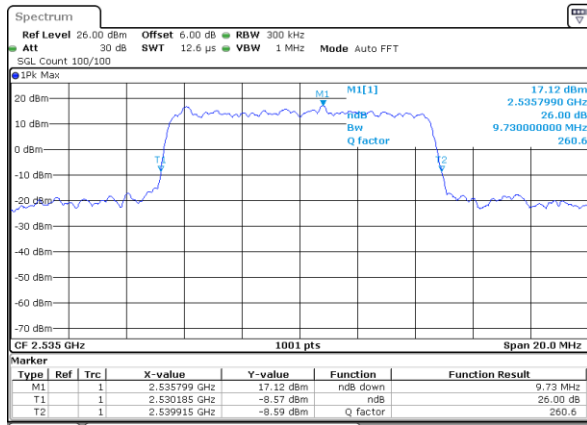
Lowest Channel / 10MHz / QPSK



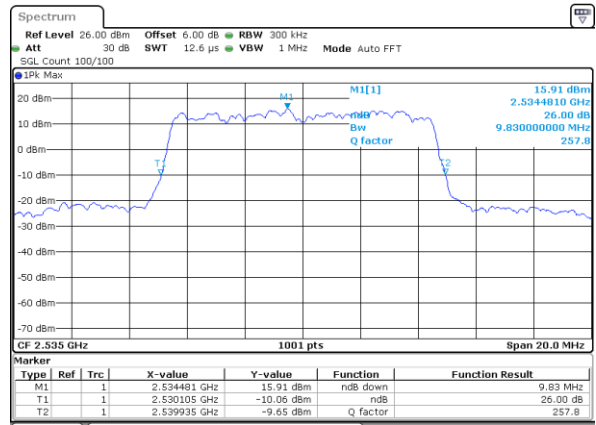
Lowest Channel / 10MHz / 16QAM



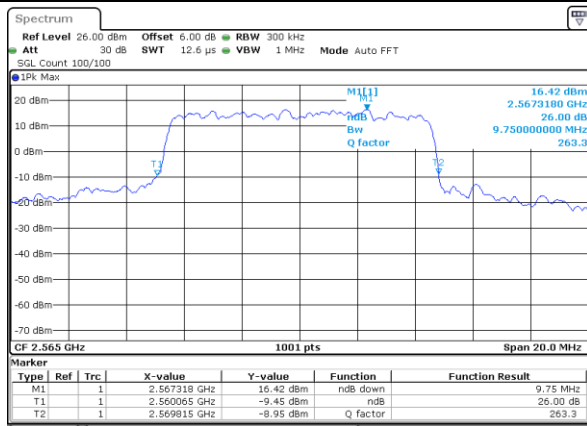
Middle Channel / 10MHz / QPSK



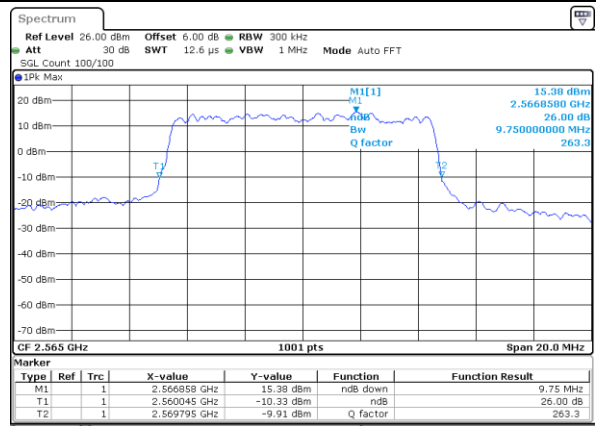
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



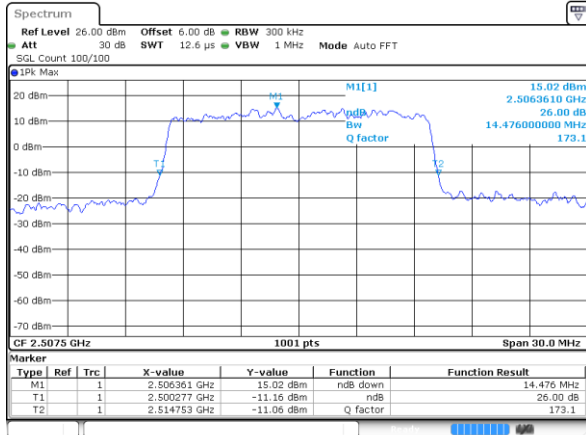
Highest Channel / 10MHz / 16QAM



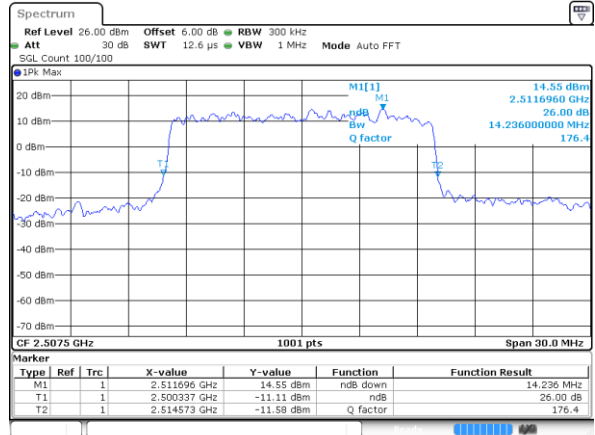


LTE Band 7

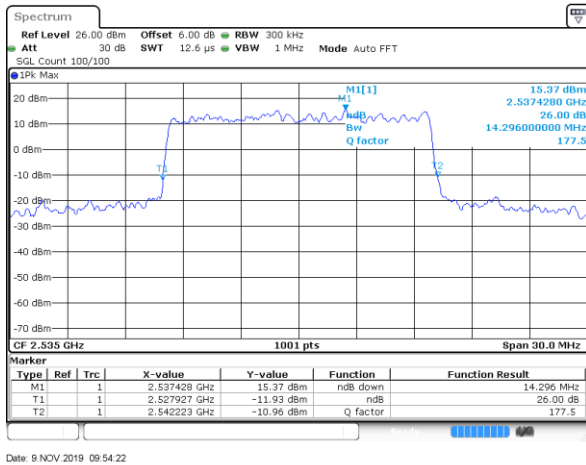
Lowest Channel / 15MHz / QPSK



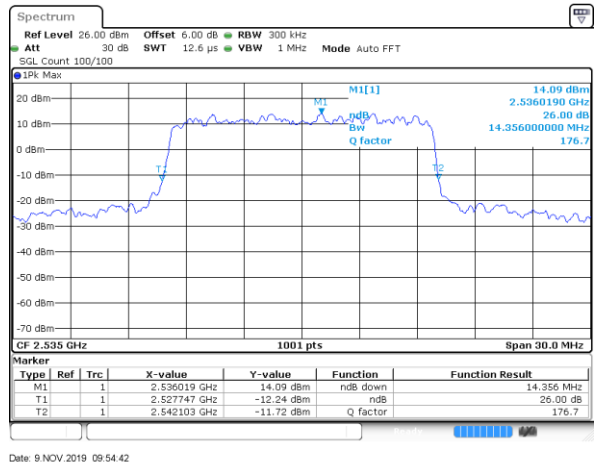
Lowest Channel / 15MHz / 16QAM



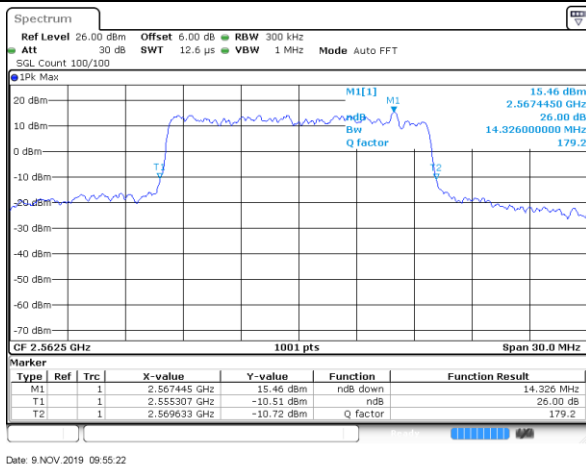
Middle Channel / 15MHz / QPSK



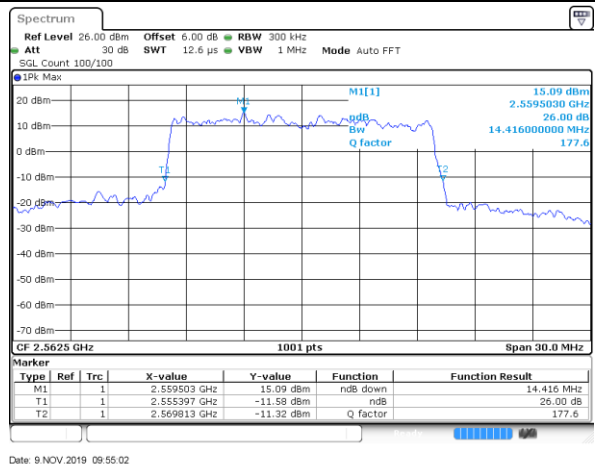
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



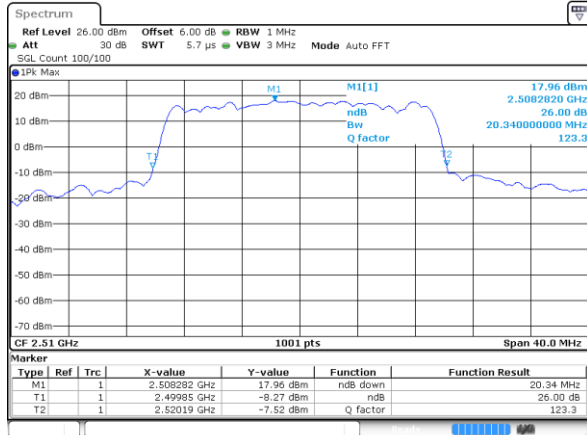
Highest Channel / 15MHz / 16QAM





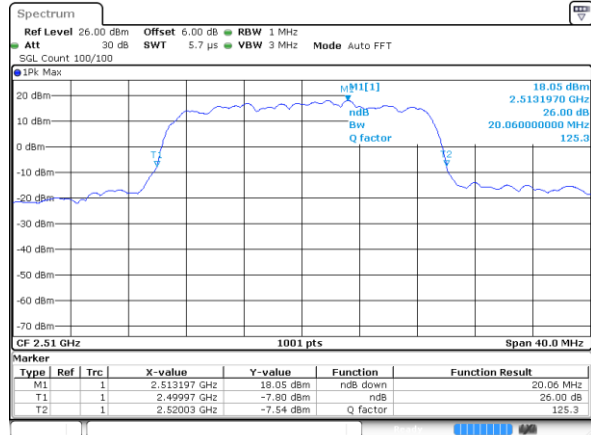
LTE Band 7

Lowest Channel / 20MHz / QPSK



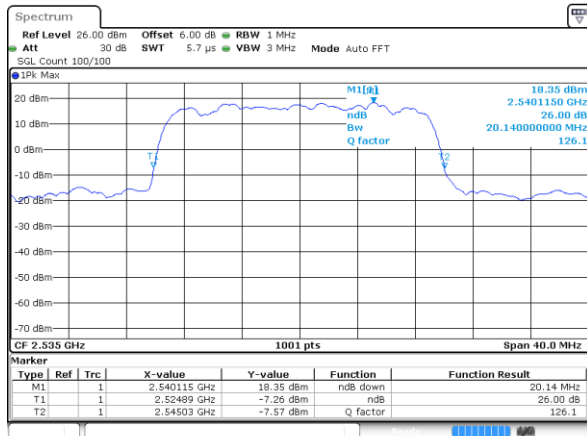
Date: 9 NOV 2019 10:12:21

Lowest Channel / 20MHz / 16QAM



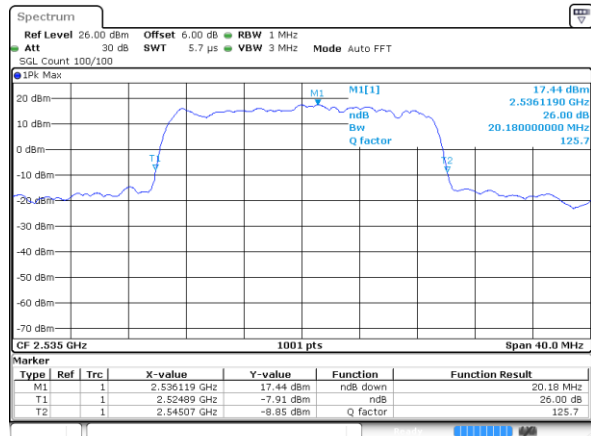
Date: 9 NOV 2019 10:12:01

Middle Channel / 20MHz / QPSK



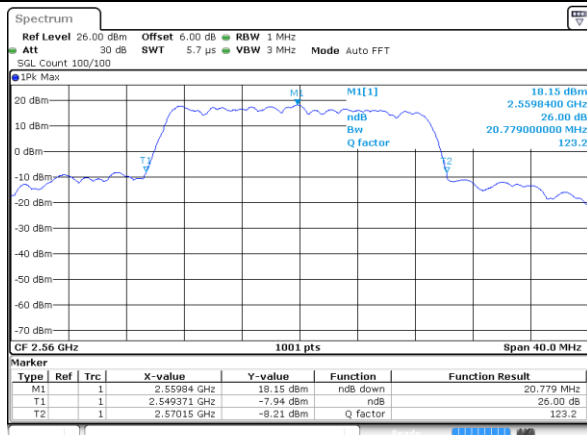
Date: 9 NOV 2019 10:12:41

Middle Channel / 20MHz / 16QAM



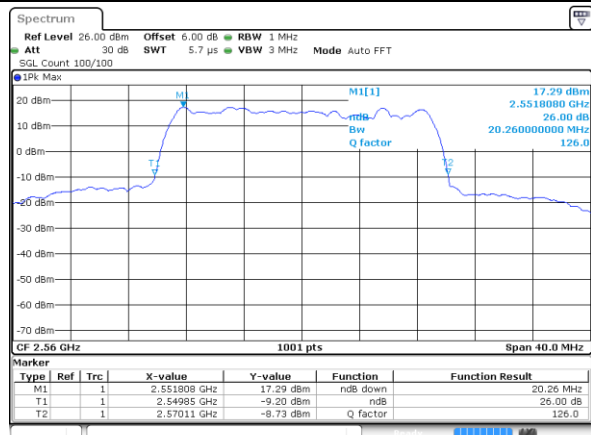
Date: 9 NOV 2019 10:13:01

Highest Channel / 20MHz / QPSK



Date: 9 NOV 2019 10:13:41

Highest Channel / 20MHz / 16QAM



Date: 9 NOV 2019 10:13:21

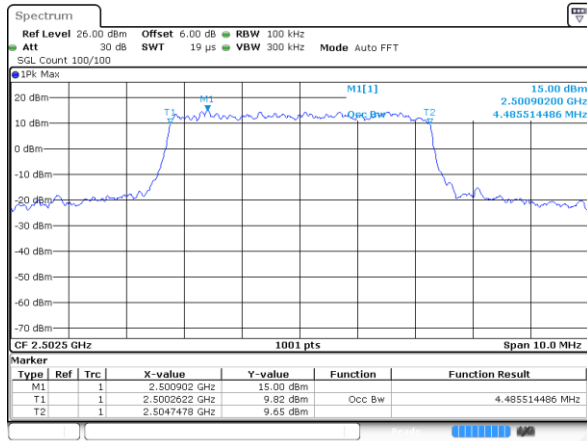
**Occupied Bandwidth**

Mode	LTE Band 7 : 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					4.49	4.49	9.07	9.09	13.37	13.40	18.26	18.34
Middle CH					4.49	4.50	8.99	9.01	13.43	13.40	18.26	18.42
Highest CH					4.50	4.50	9.05	9.05	13.40	13.49	18.30	18.42

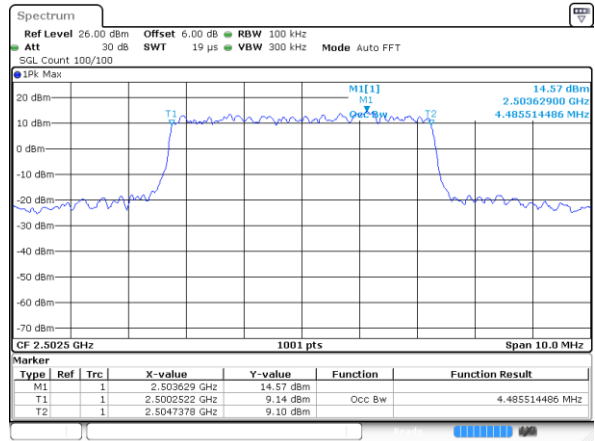


LTE Band 7

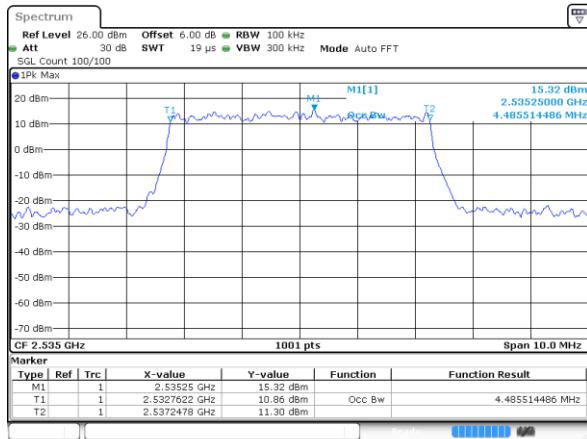
Lowest Channel / 5MHz / QPSK



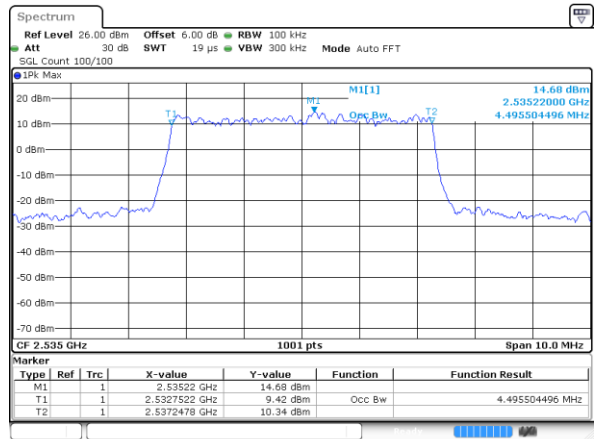
Lowest Channel / 5MHz / 16QAM



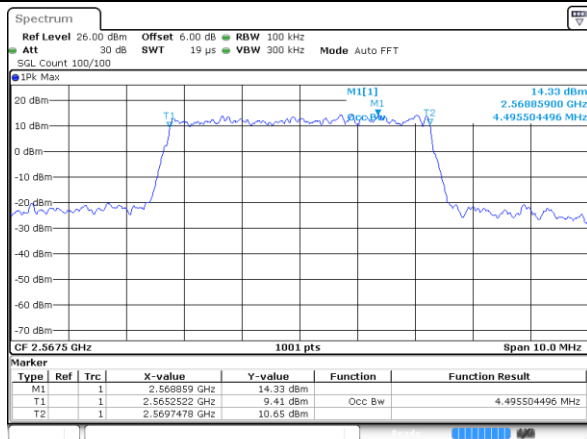
Middle Channel / 5MHz / QPSK



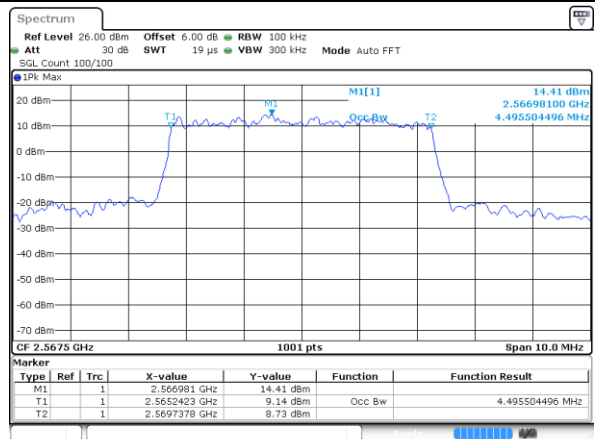
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



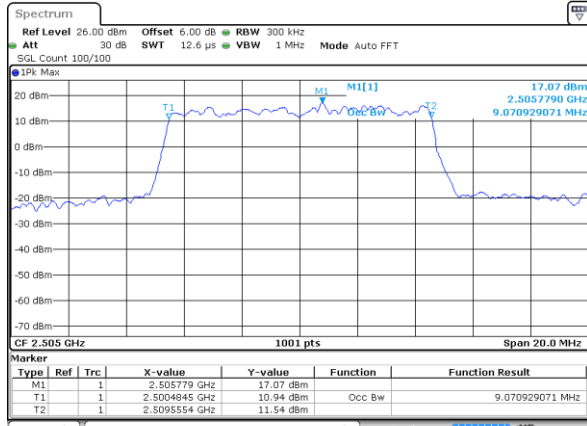
Highest Channel / 5MHz / 16QAM





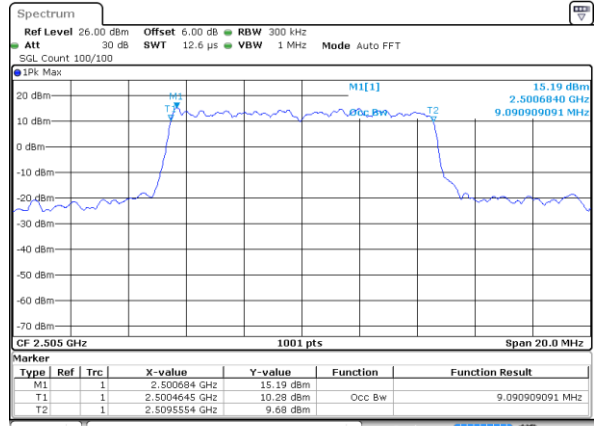
LTE Band 7

Lowest Channel / 10MHz / QPSK



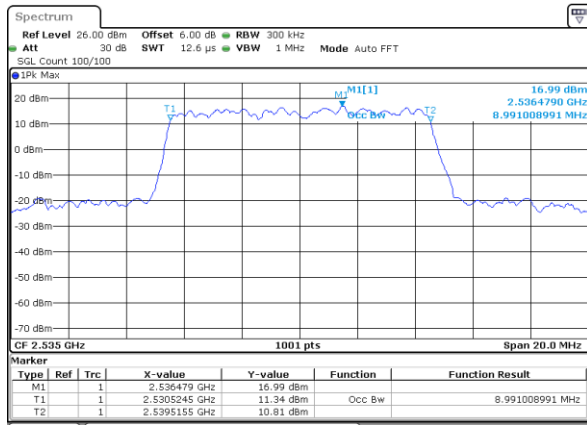
Date: 9 NOV 2019 09:37:06

Lowest Channel / 10MHz / 16QAM



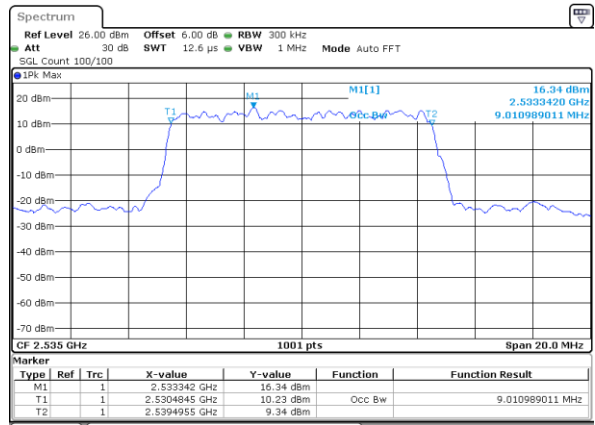
Date: 9 NOV 2019 09:37:26

Middle Channel / 10MHz / QPSK



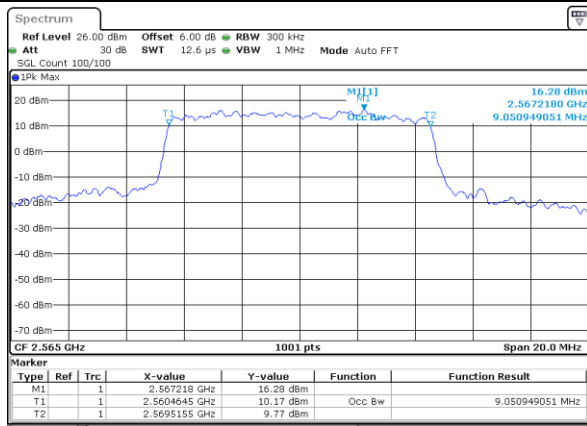
Date: 9 NOV 2019 09:38:06

Middle Channel / 10MHz / 16QAM



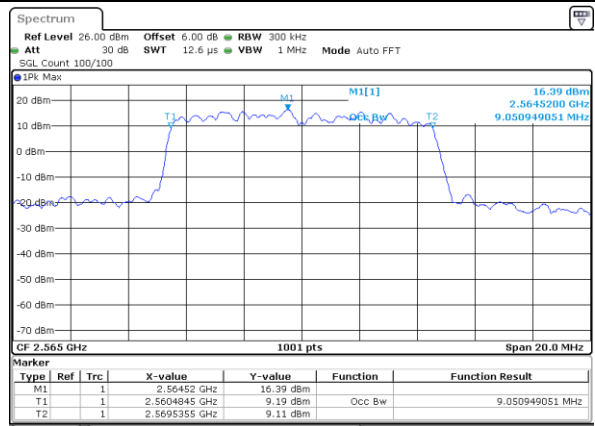
Date: 9 NOV 2019 09:37:46

Highest Channel / 10MHz / QPSK



Date: 9 NOV 2019 09:38:26

Highest Channel / 10MHz / 16QAM

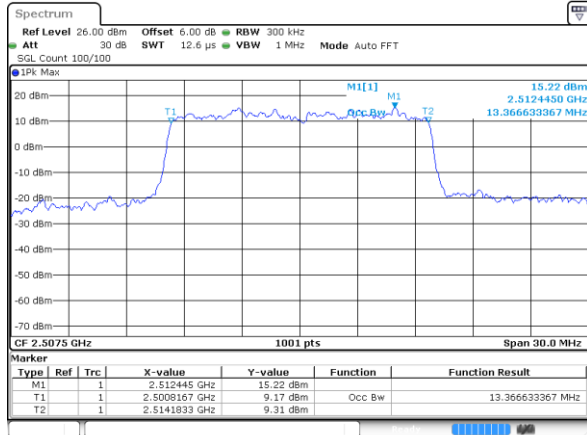


Date: 9 NOV 2019 09:38:46

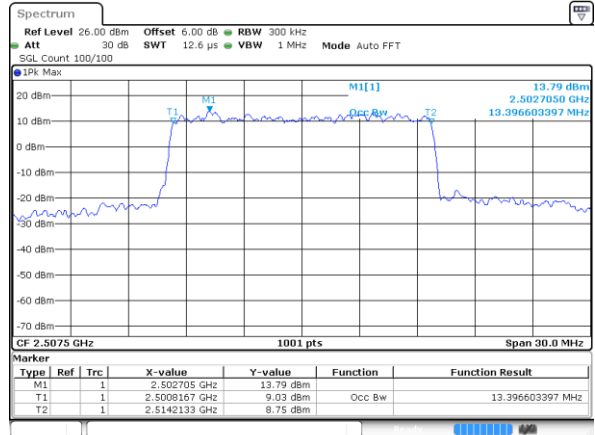


LTE Band 7

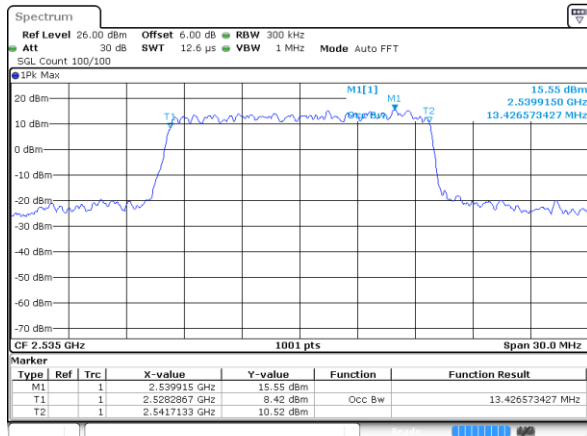
Lowest Channel / 15MHz / QPSK



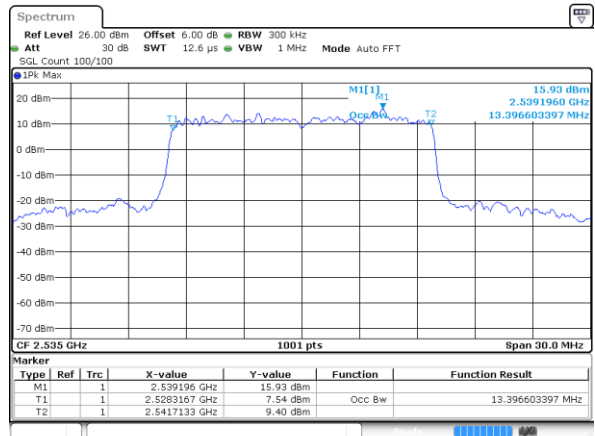
Lowest Channel / 15MHz / 16QAM



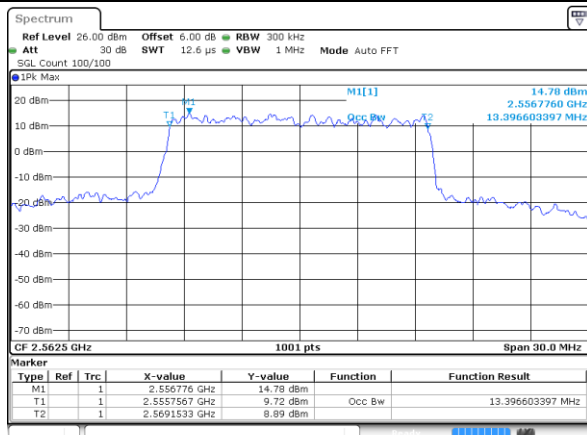
Middle Channel / 15MHz / QPSK



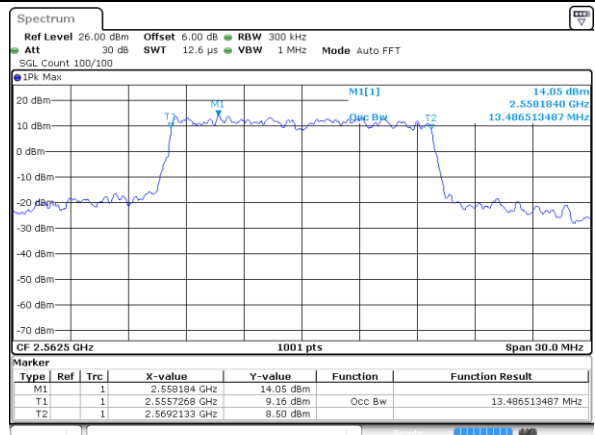
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



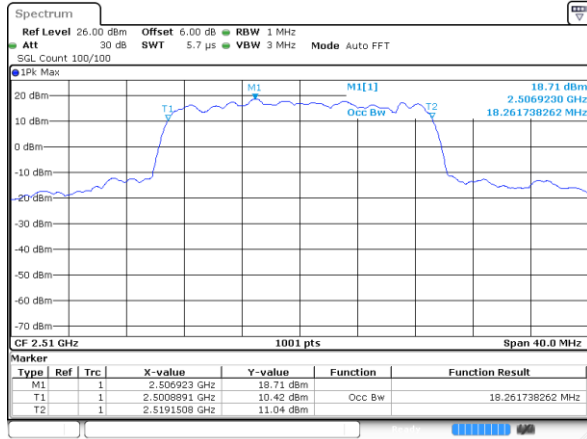
Highest Channel / 15MHz / 16QAM



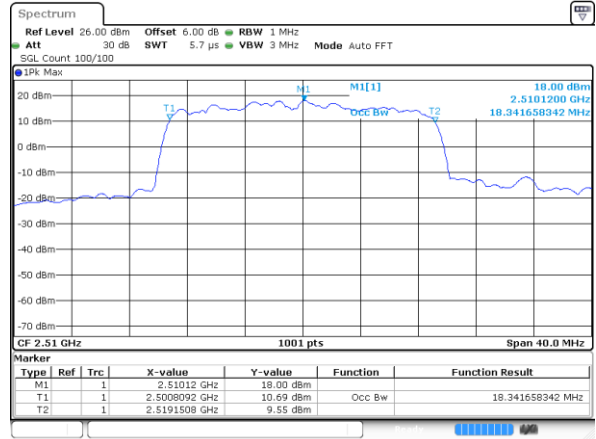


LTE Band 7

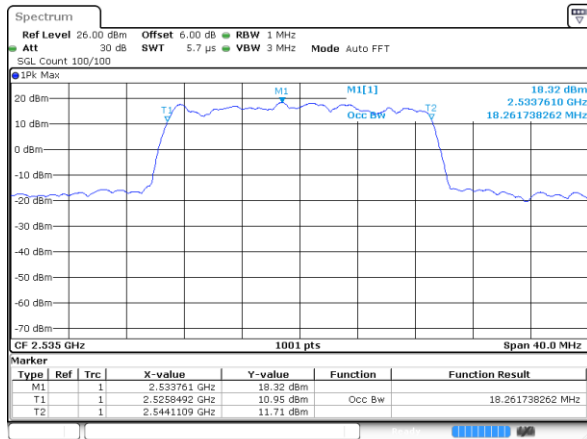
Lowest Channel / 20MHz / QPSK



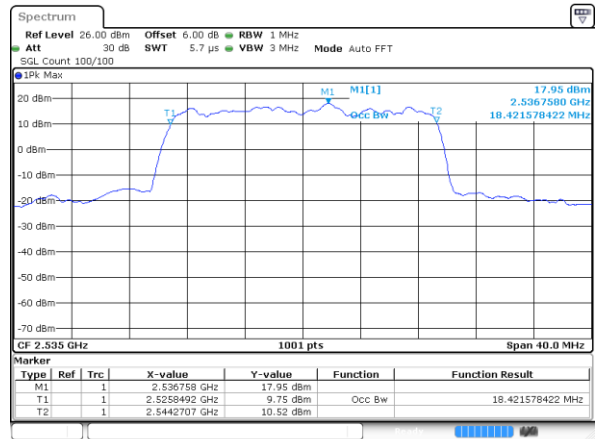
Lowest Channel / 20MHz / 16QAM



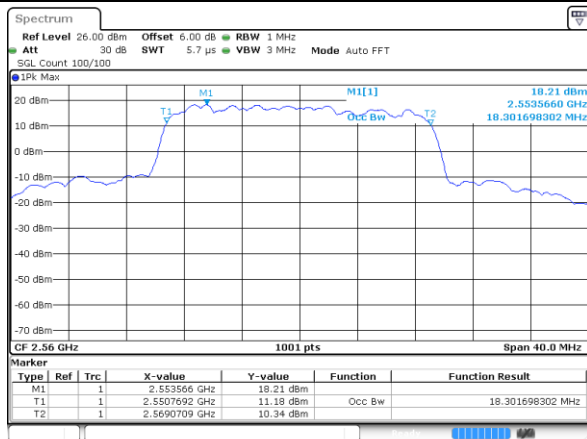
Middle Channel / 20MHz / QPSK



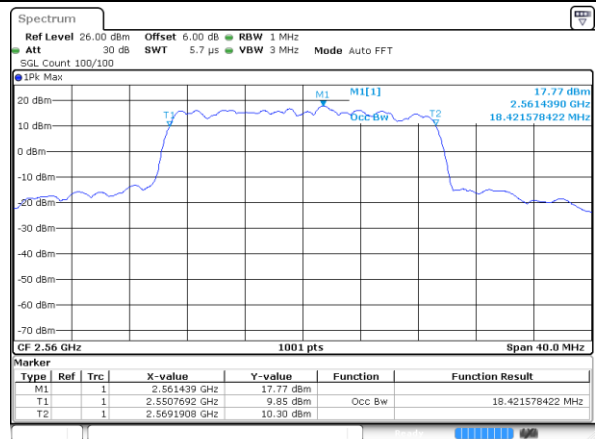
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



Highest Channel / 20MHz / 16QAM

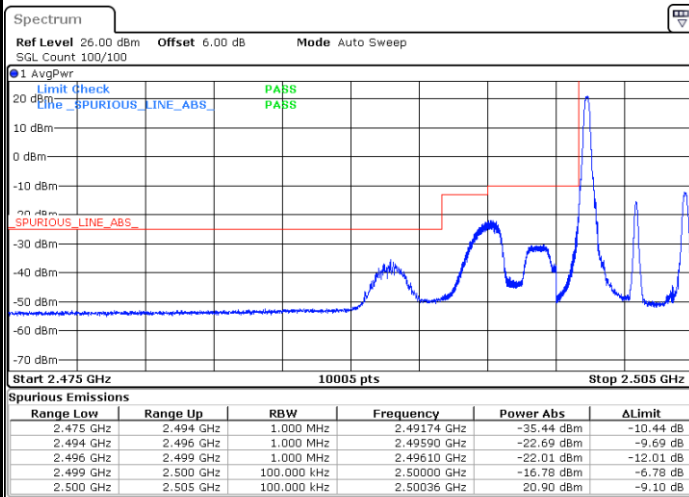




Conducted Band Edge

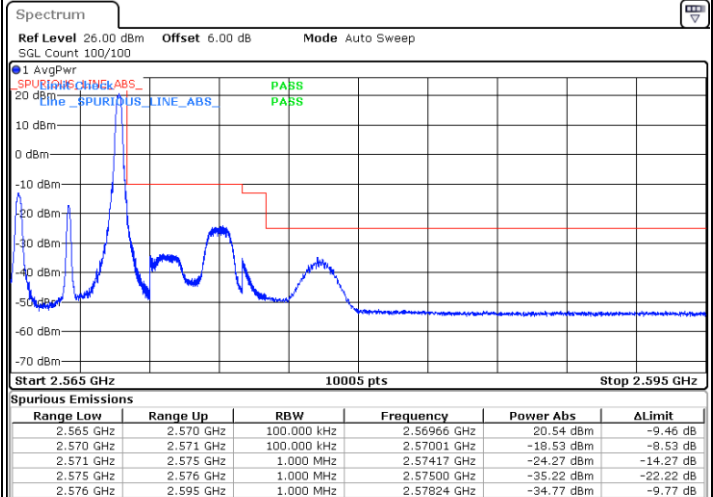
LTE Band 7 / 5MHz / QPSK

Lowest Band Edge / 1 RB



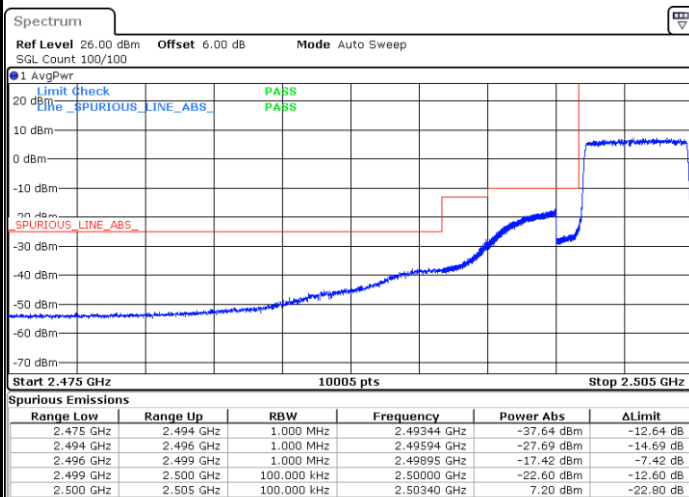
Date: 9 NOV. 2019 09:23:37

Highest Band Edge / 1 RB



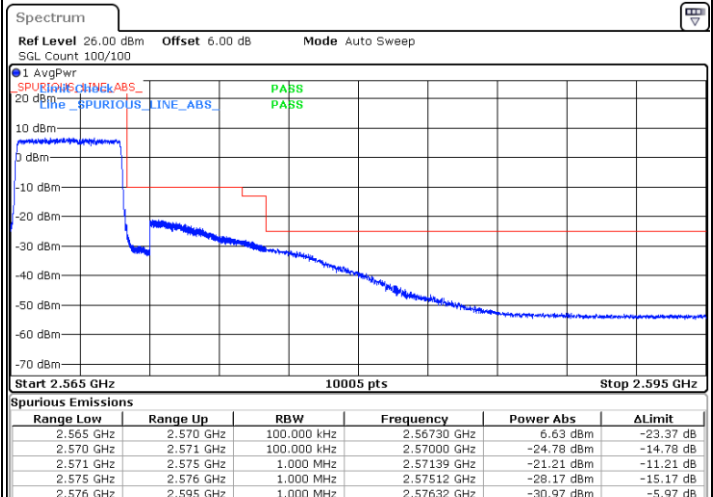
Date: 9 NOV. 2019 09:31:34

Lowest Band Edge / Full RB



Date: 9 NOV. 2019 09:27:02

Highest Band Edge / Full RB

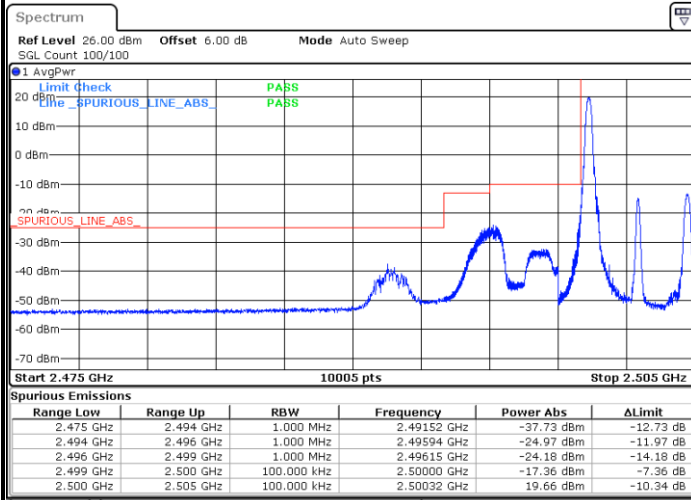


Date: 9 NOV. 2019 09:28:10

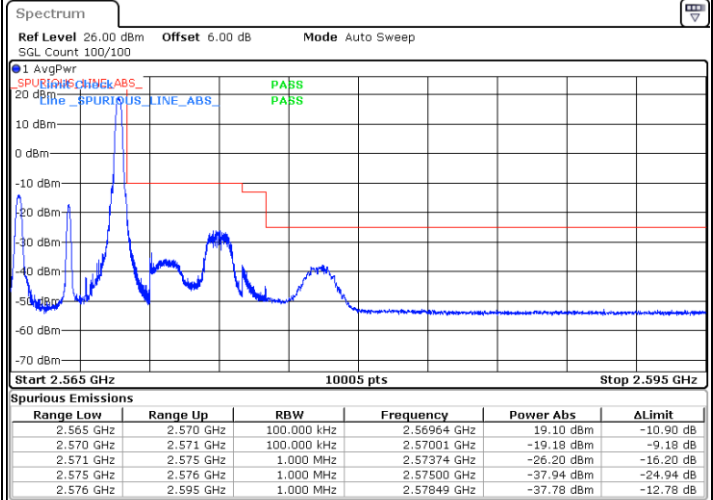


LTE Band 7 / 5MHz / 16QAM

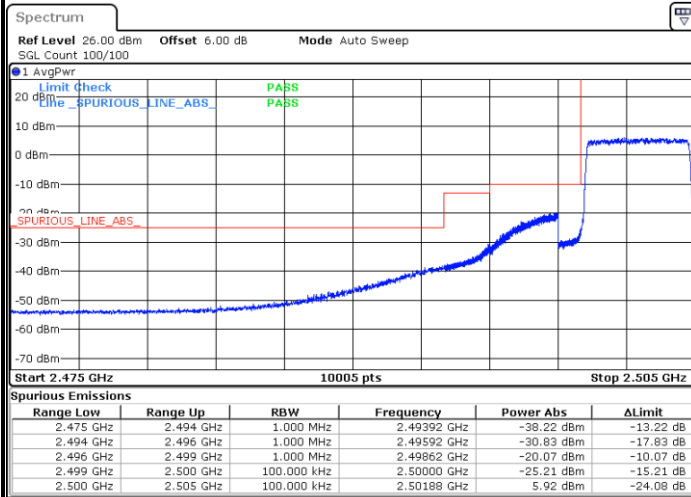
Lowest Band Edge / 1 RB



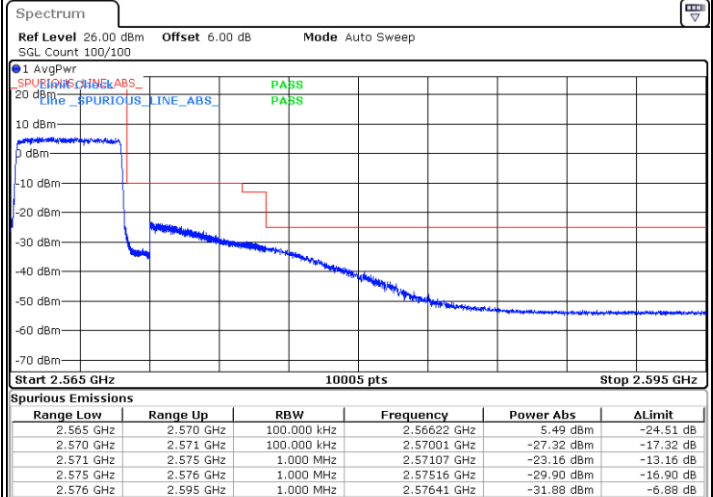
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



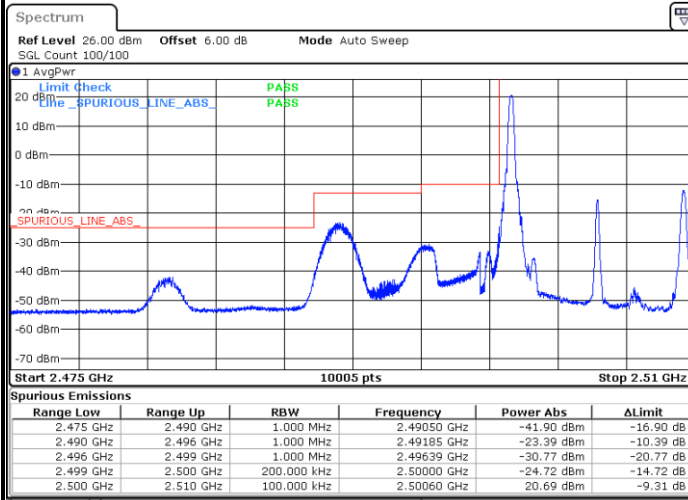
Highest Band Edge / Full RB



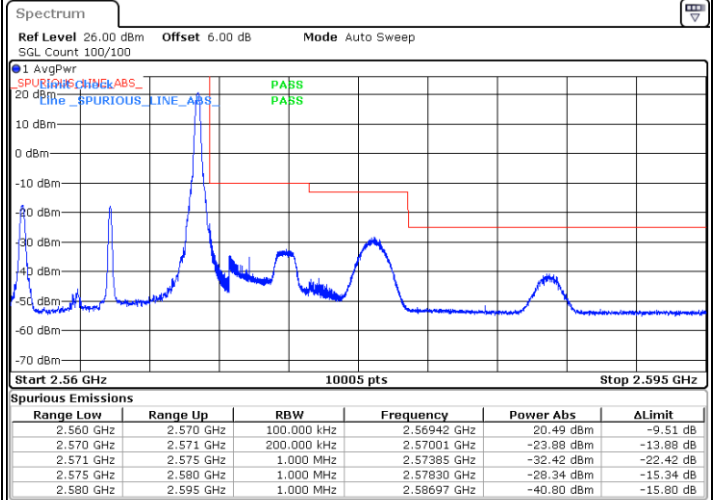


LTE Band 7 / 10MHz / QPSK

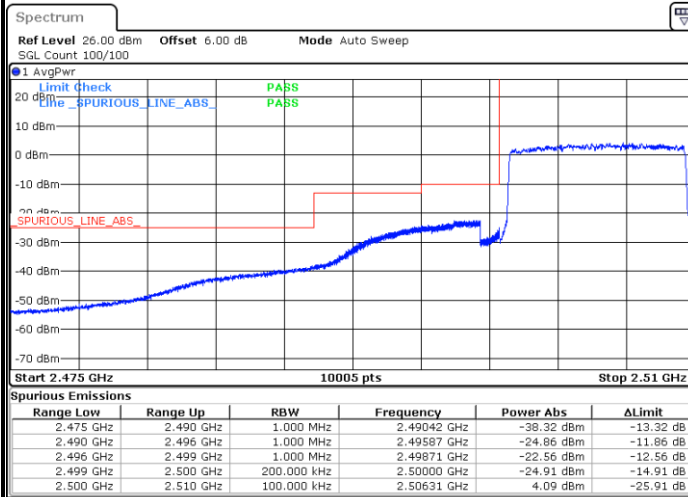
Lowest Band Edge / 1 RB



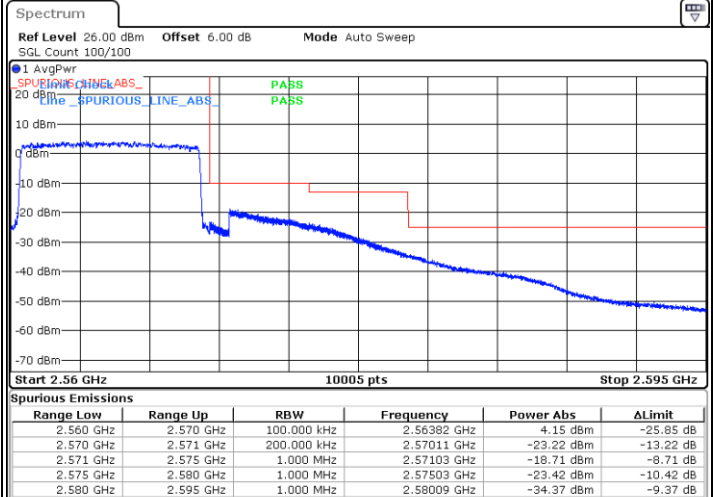
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



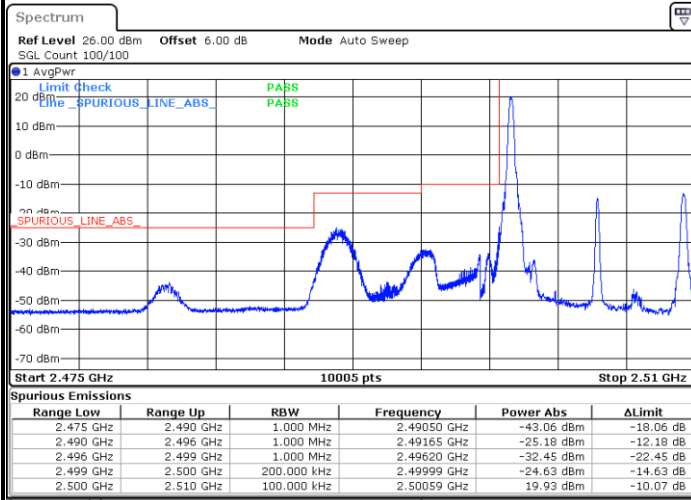
Highest Band Edge / Full RB



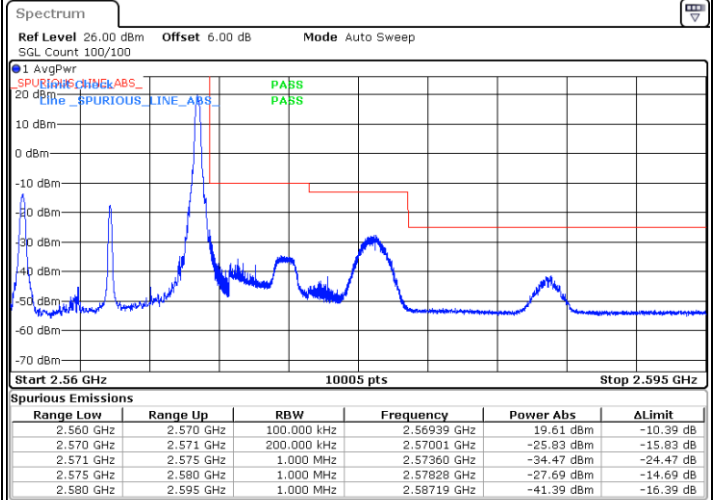


LTE Band 7 / 10MHz / 16QAM

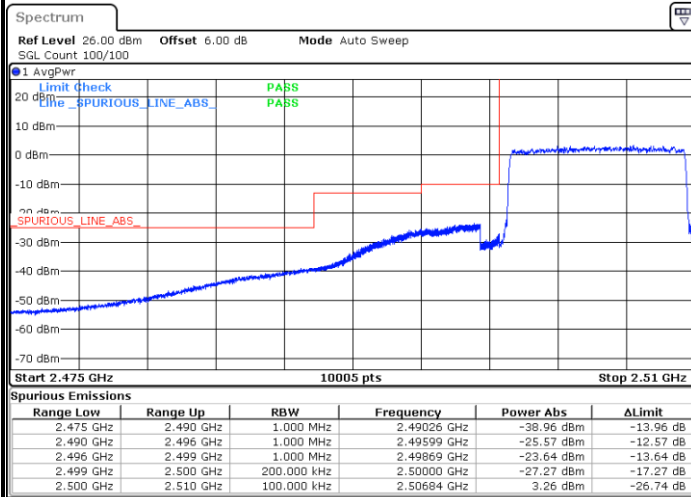
Lowest Band Edge / 1 RB



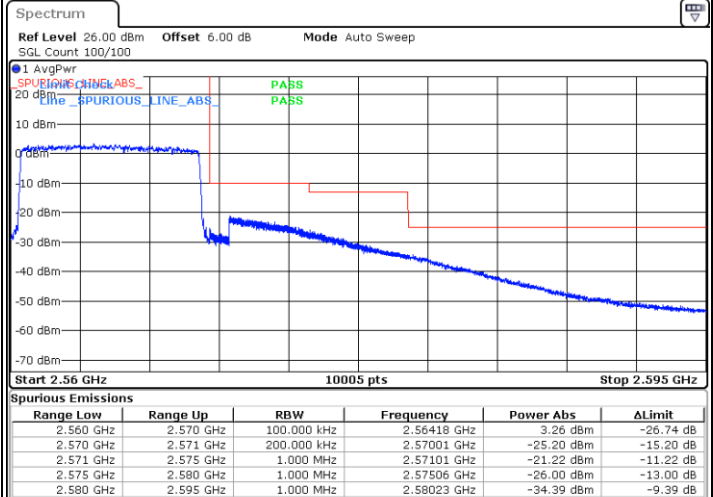
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



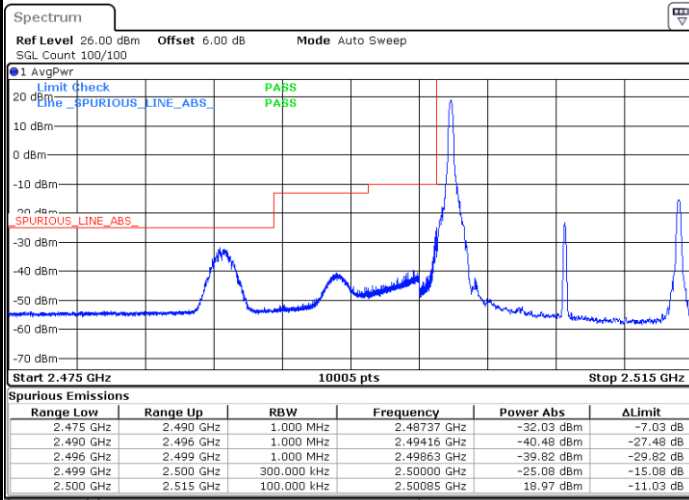
Highest Band Edge / Full RB



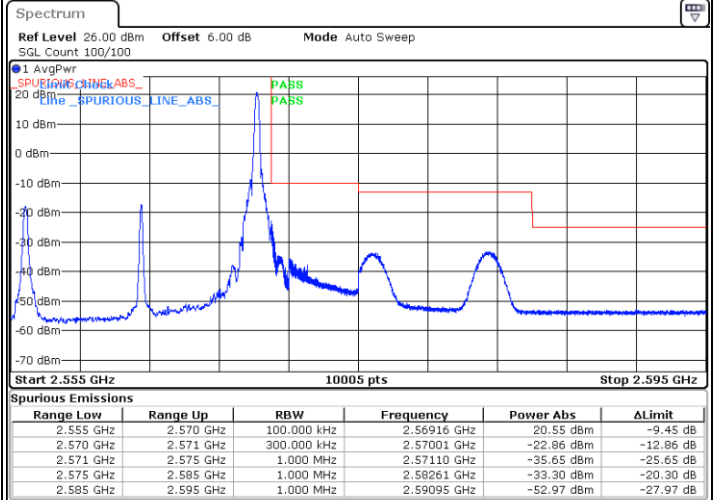


LTE Band 7 / 15MHz / QPSK

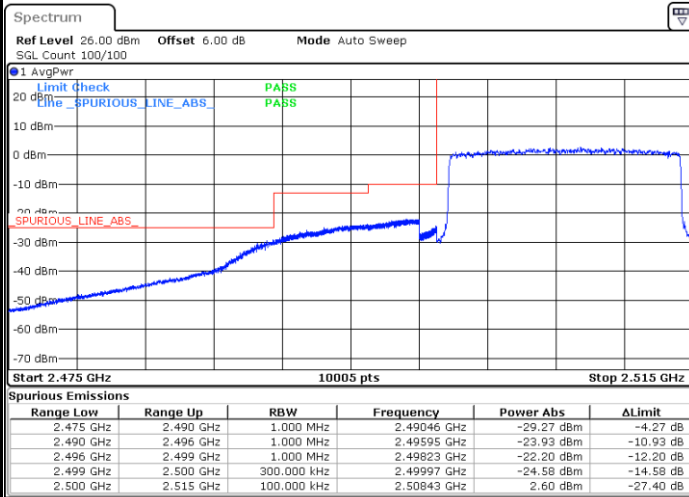
Lowest Band Edge / 1 RB



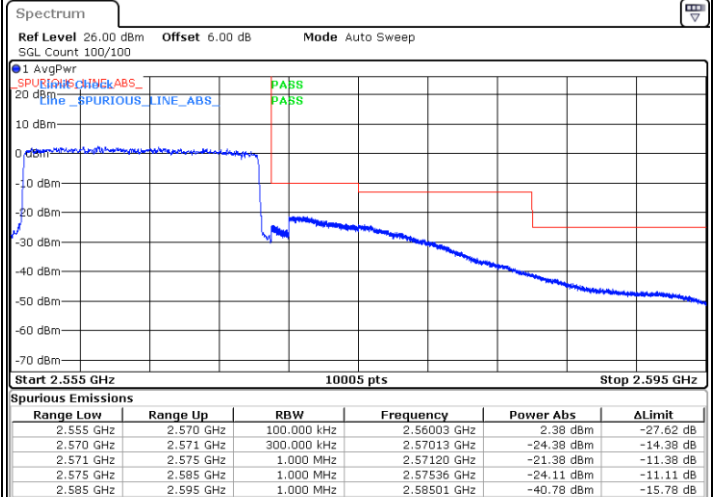
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



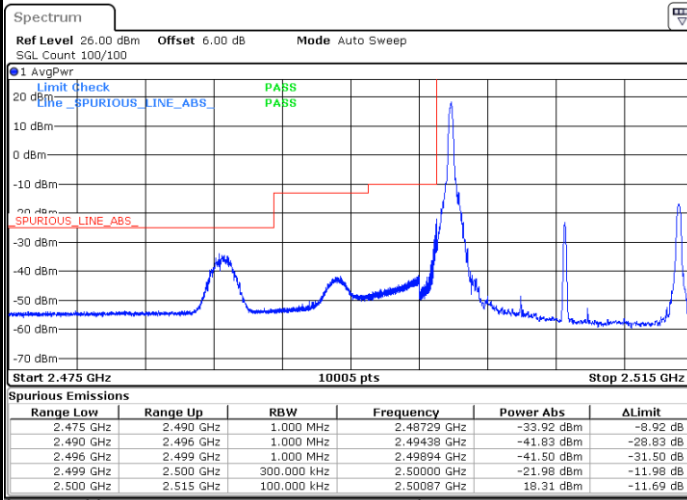
Highest Band Edge / Full RB





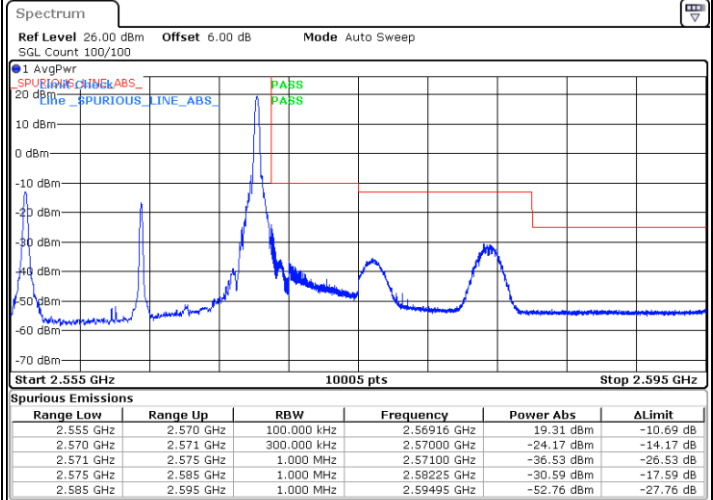
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



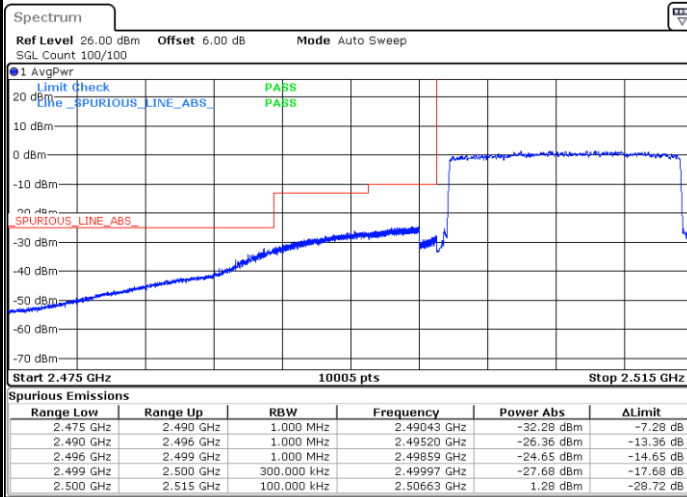
Date: 11 NOV 2019 22:39:26

Highest Band Edge / 1 RB



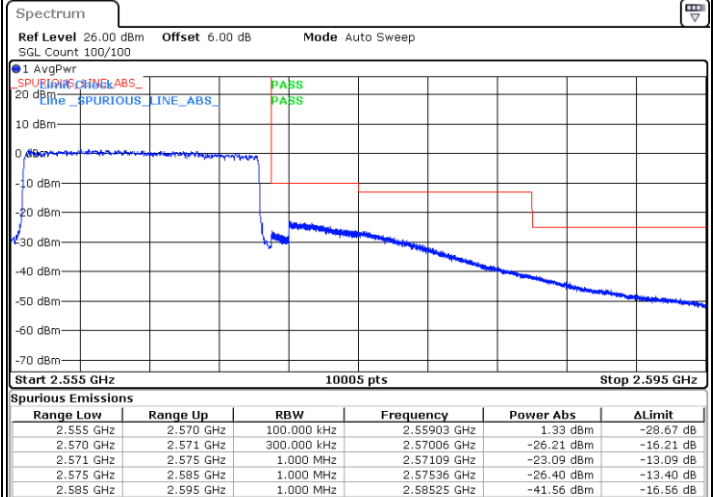
Date: 9 NOV 2019 10:03:18

Lowest Band Edge / Full RB



Date: 9 NOV 2019 09:58:47

Highest Band Edge / Full RB

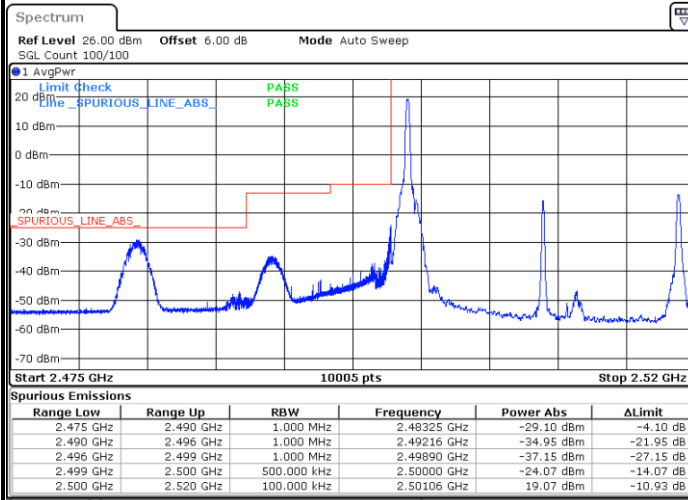


Date: 9 NOV 2019 10:02:11

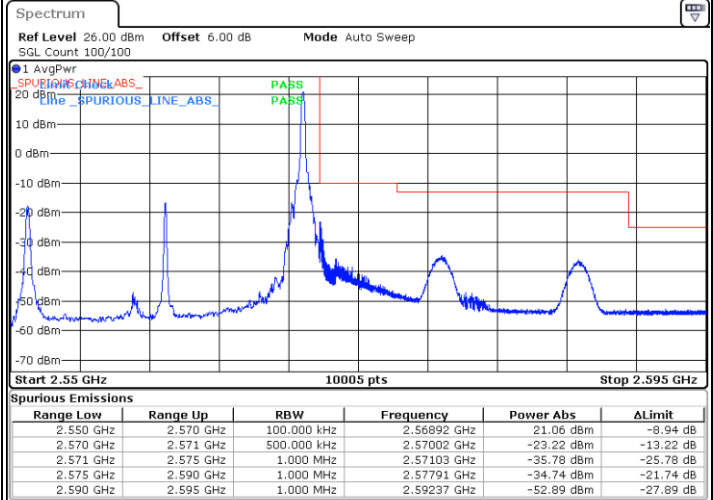


LTE Band 7 / 20MHz / QPSK

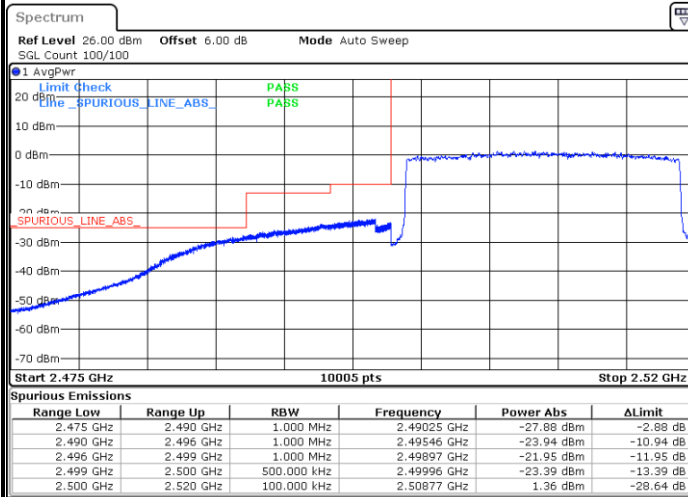
Lowest Band Edge / 1 RB



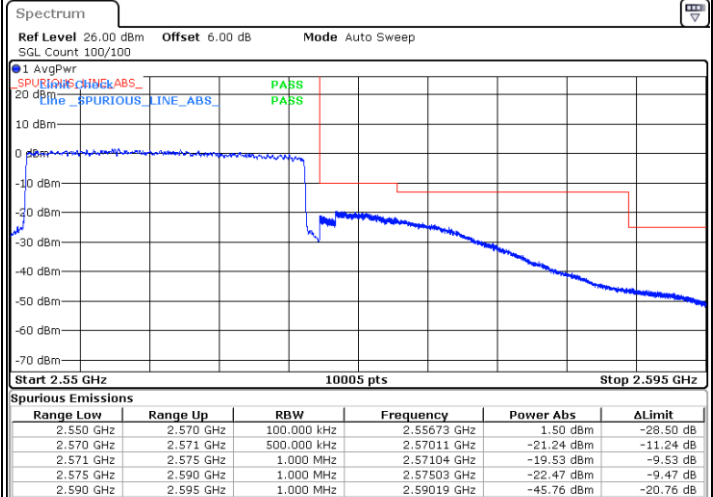
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



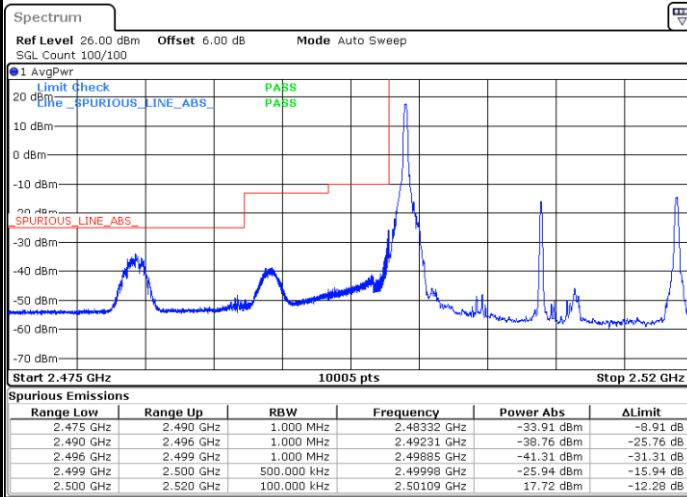
Highest Band Edge / Full RB



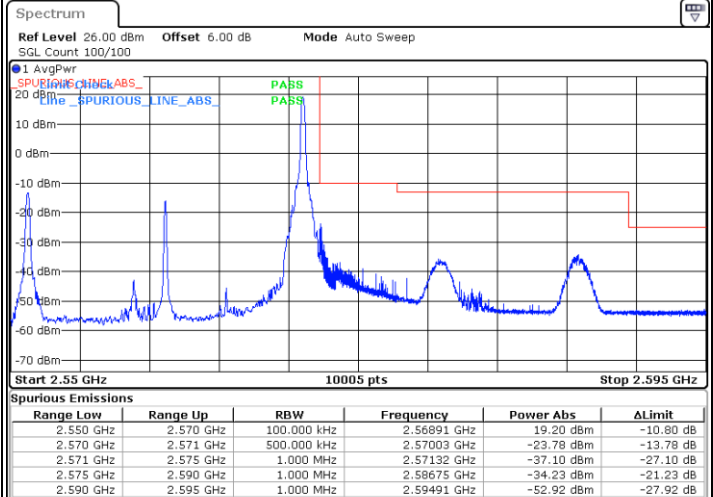


LTE Band 7 / 20MHz / 16QAM

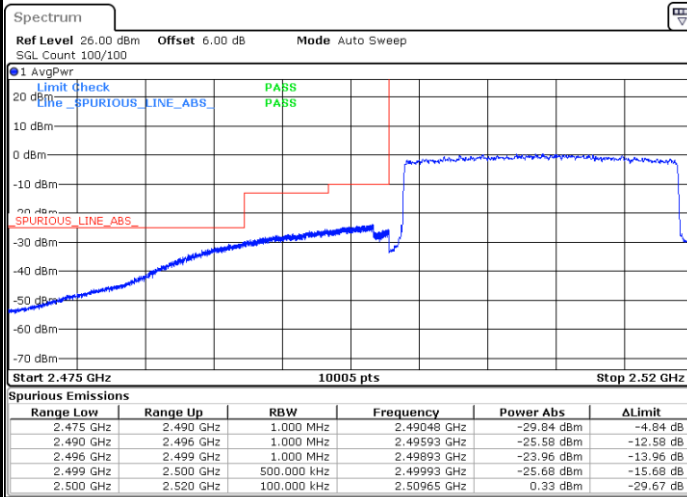
Lowest Band Edge / 1 RB



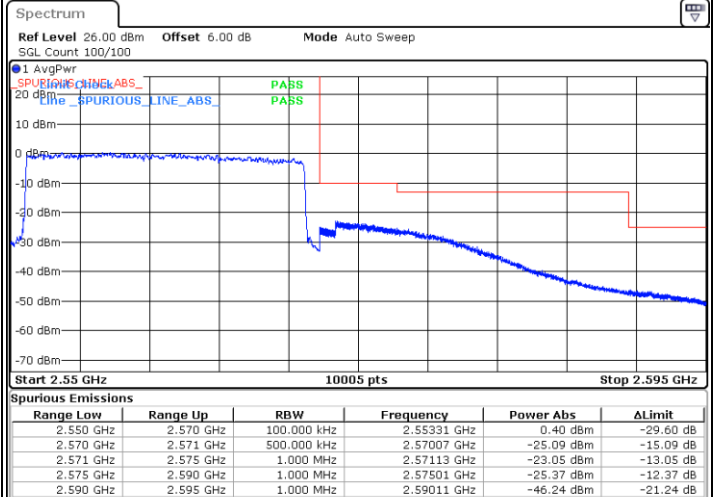
Highest Band Edge / 1RB

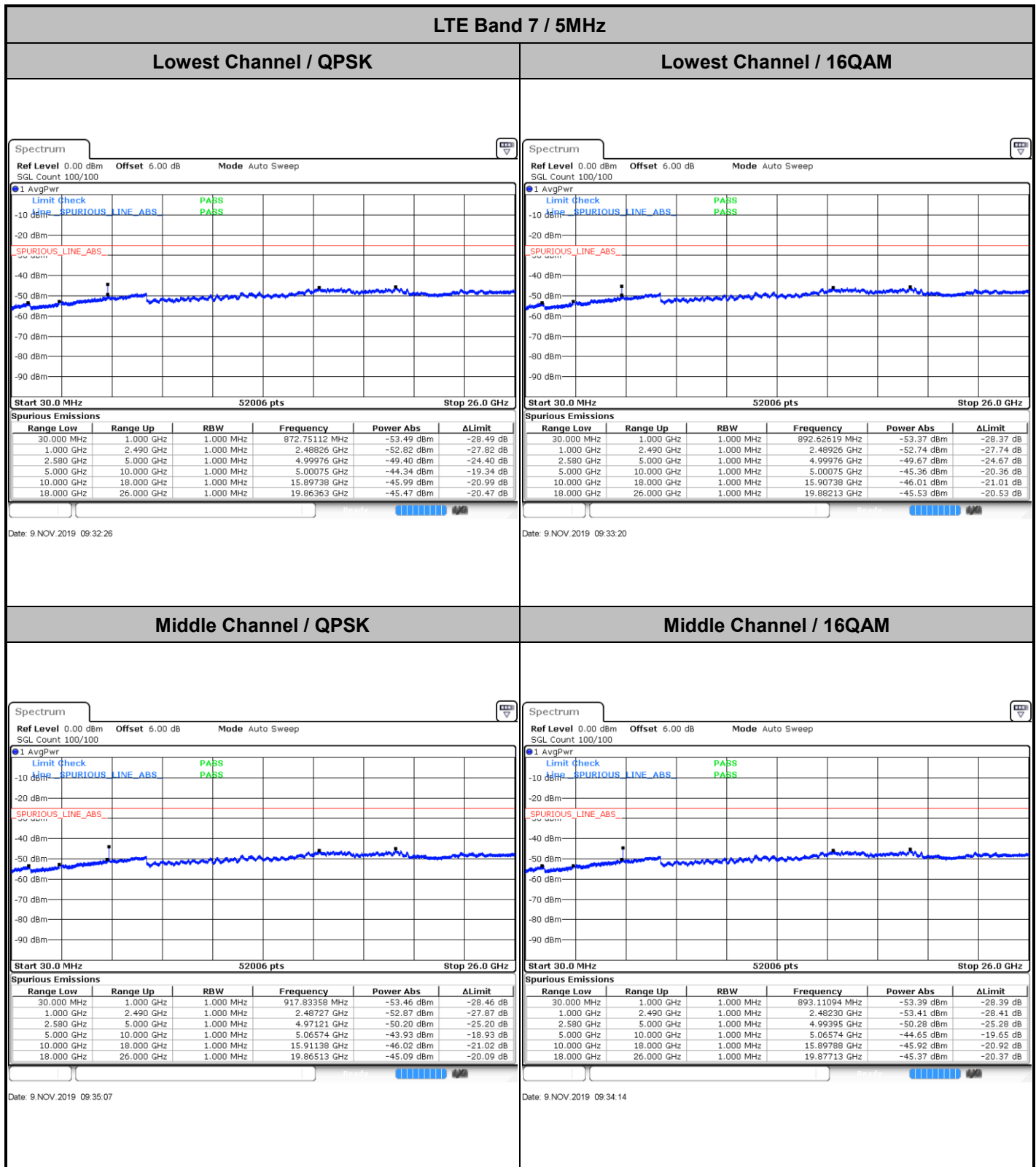


Lowest Band Edge / Full RB



Highest Band Edge / Full RB

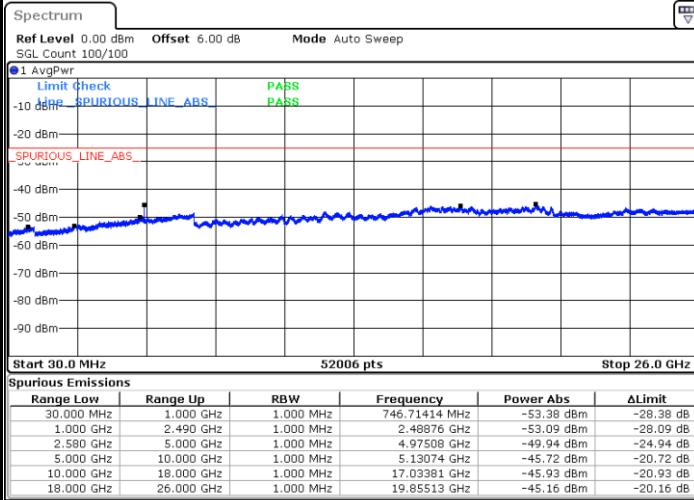


**Conducted Spurious Emission**



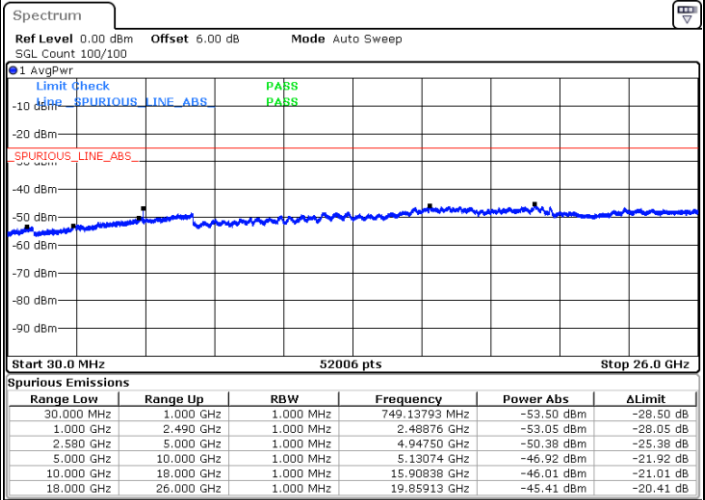
LTE Band 7 / 5MHz

Highest Channel / QPSK



Date: 9 NOV. 2019 09:36:01

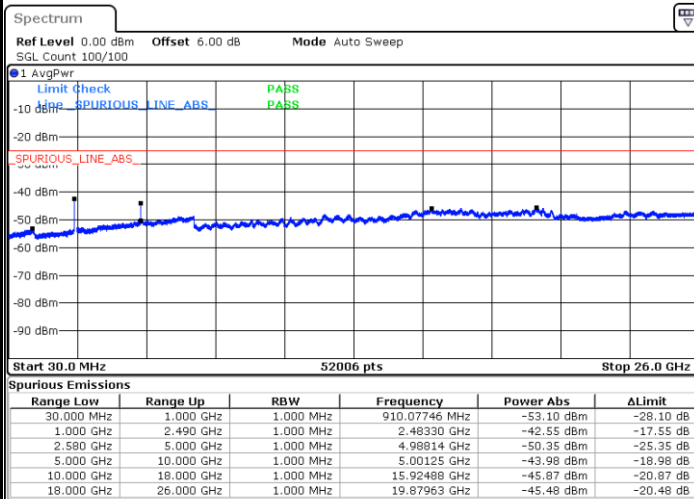
Highest Channel / 16QAM



Date: 9 NOV. 2019 09:36:55

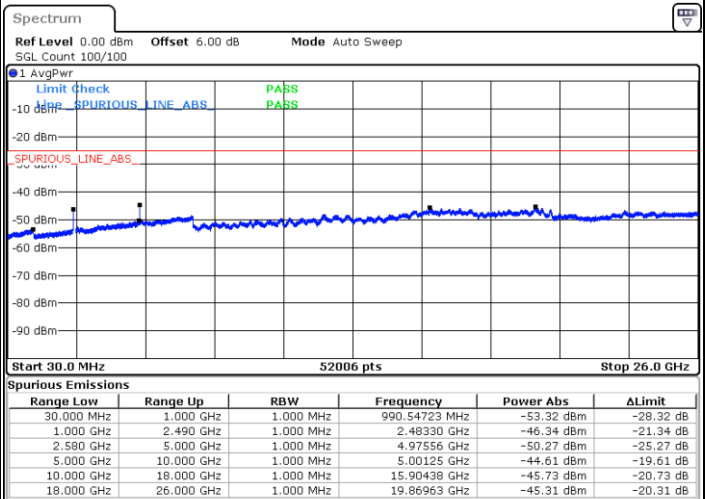
LTE Band 7 / 10MHz

Lowest Channel / QPSK



Date: 9 NOV. 2019 09:48:52

Lowest Channel / 16QAM

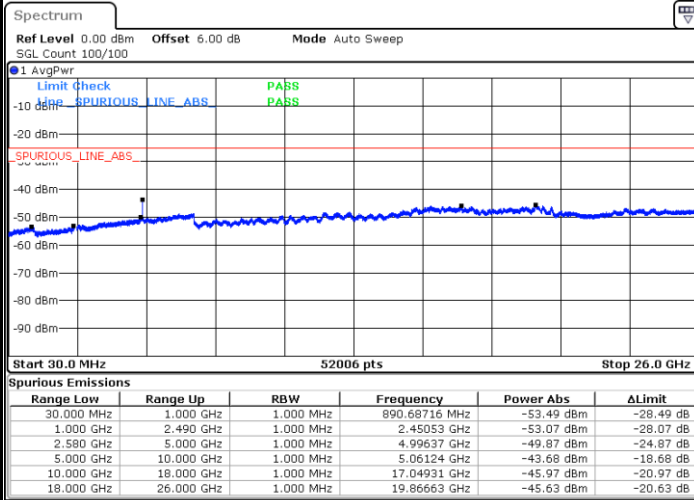


Date: 9 NOV. 2019 09:48:46



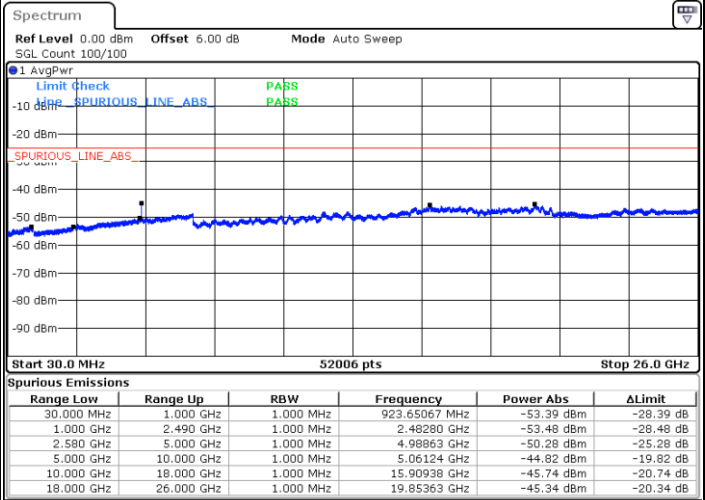
LTE Band 7 / 10MHz

Middle Channel / QPSK



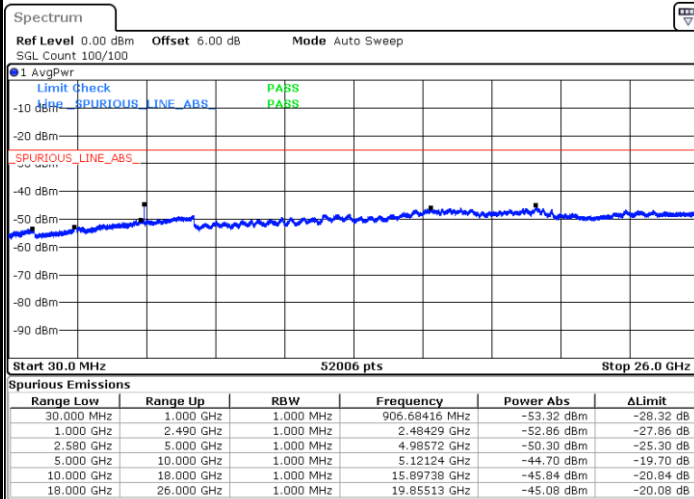
Date: 9 NOV. 2019 09:51:33

Middle Channel / 16QAM



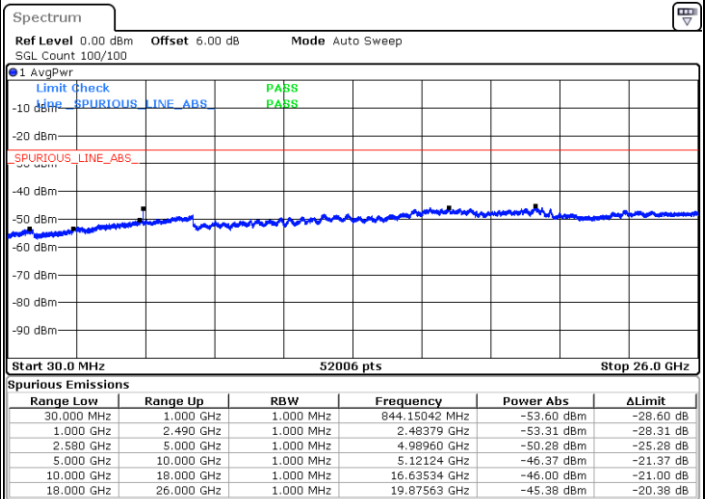
Date: 9 NOV. 2019 09:50:40

Highest Channel / QPSK



Date: 9 NOV. 2019 09:52:27

Highest Channel / 16QAM

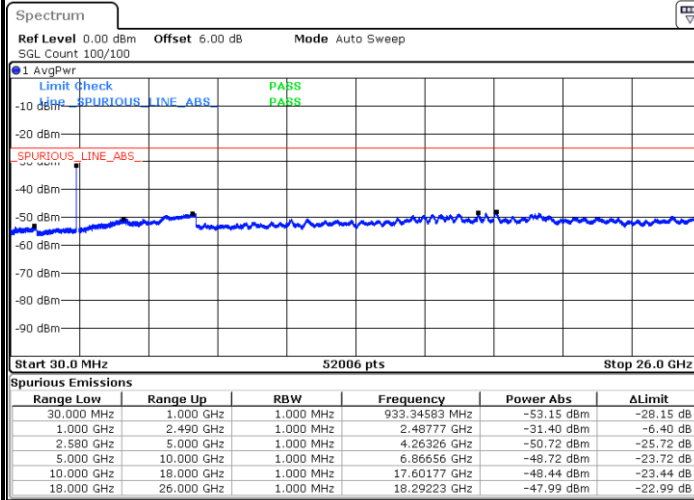


Date: 9 NOV. 2019 09:53:21



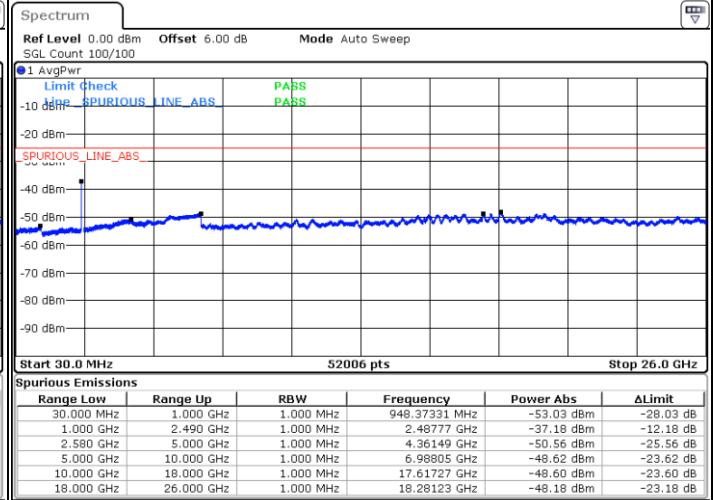
LTE Band 7 / 15MHz

Lowest Channel / QPSK



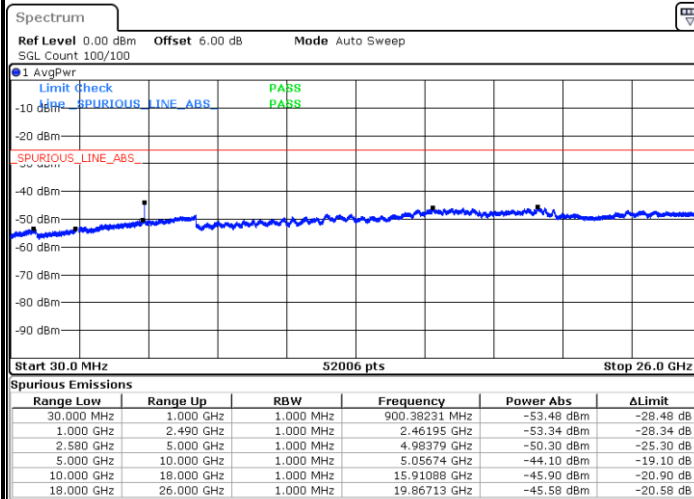
Date: 11.NOV.2019 22:41:29

Lowest Channel / 16QAM



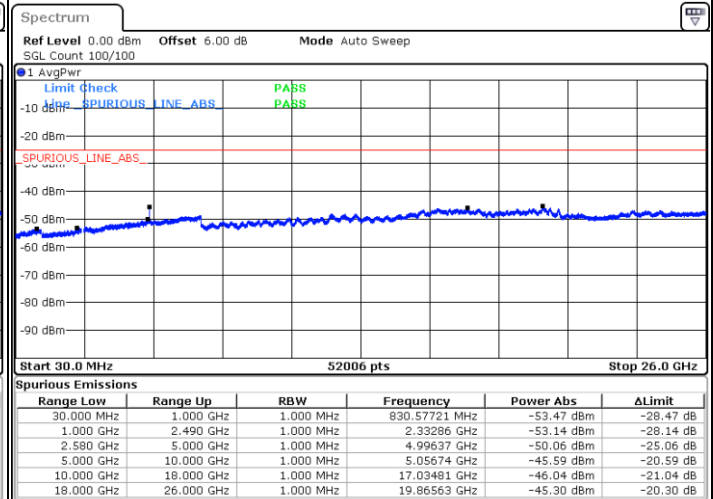
Date: 11.NOV.2019 22:40:33

Middle Channel / QPSK



Date: 9.NOV.2019 10:09:53

Middle Channel / 16QAM



Date: 9.NOV.2019 10:08:59