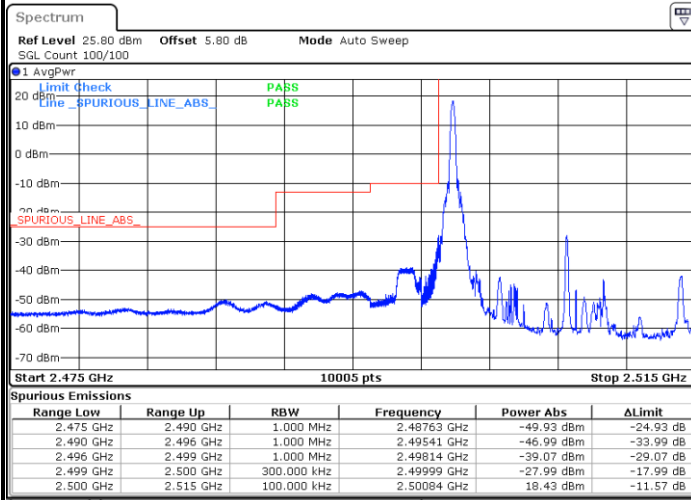


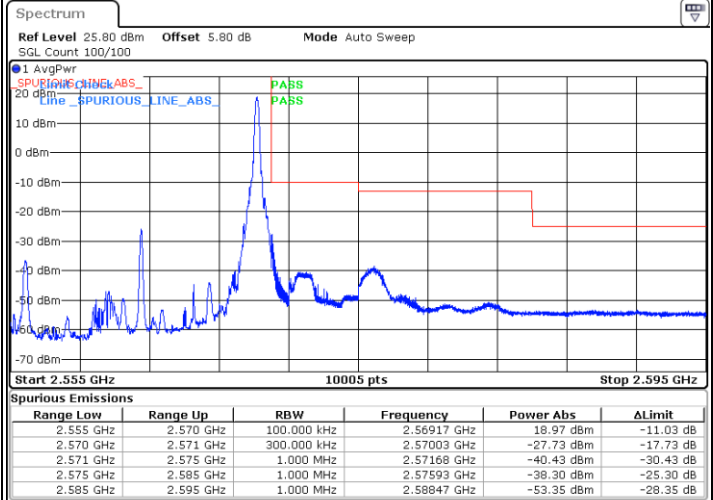


LTE Band 7 / 15MHz / 16QAM

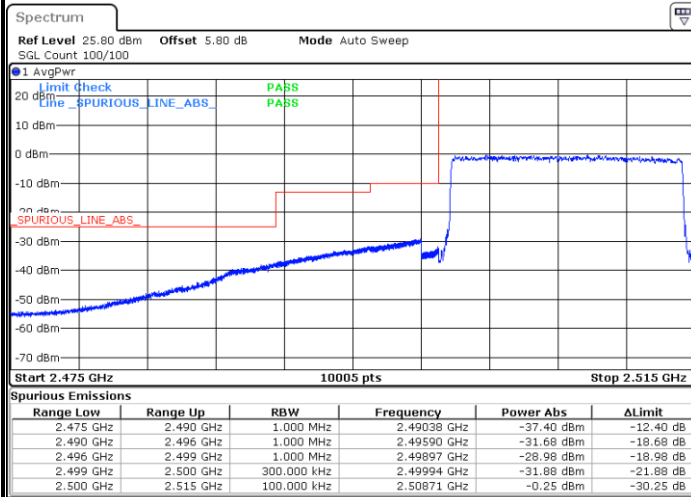
Lowest Band Edge / 1 RB



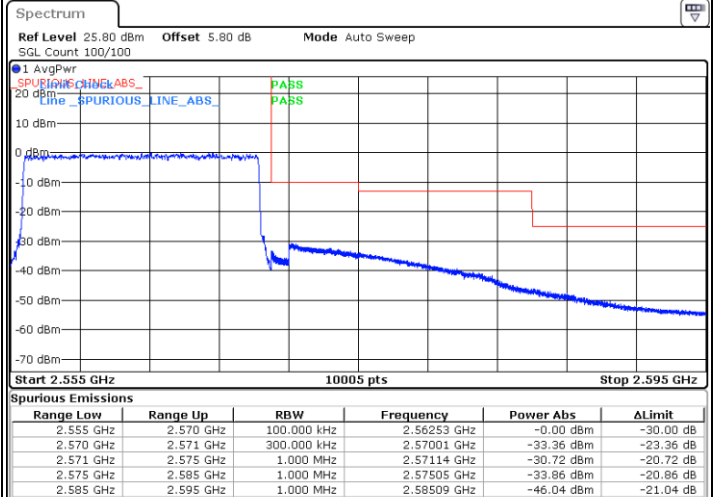
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



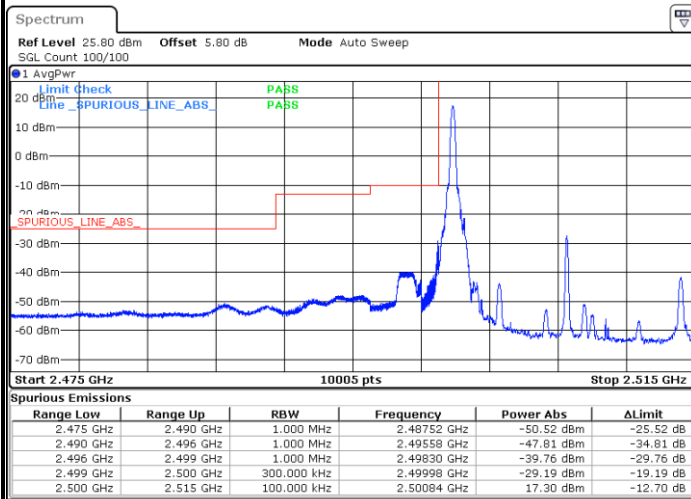
Highest Band Edge / Full RB



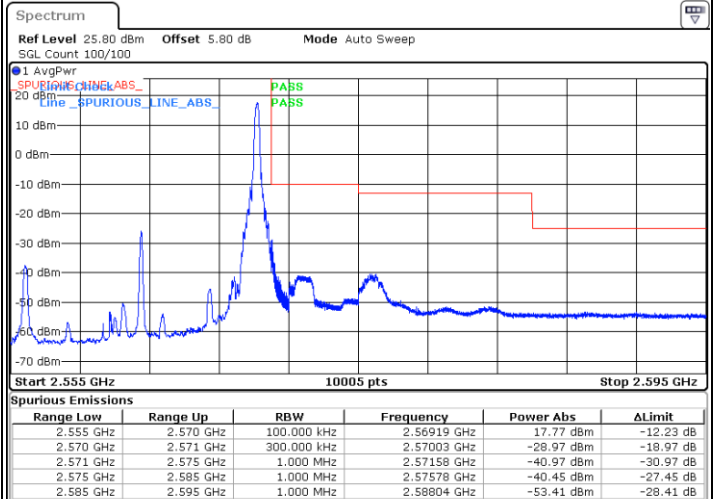


LTE Band 7 / 15MHz / 64QAM

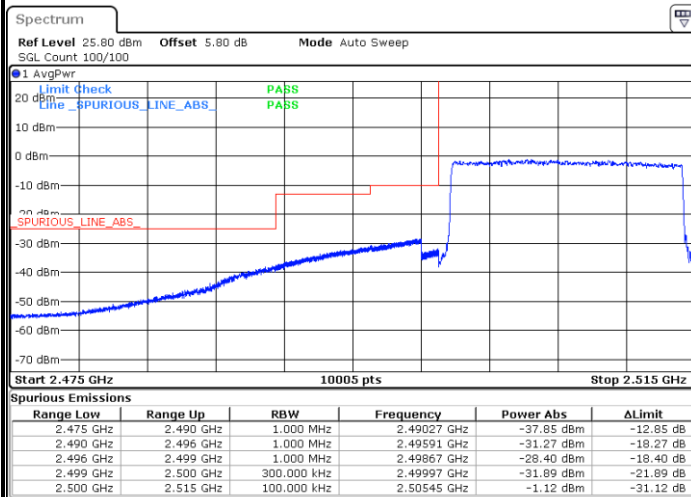
Lowest Band Edge / 1 RB



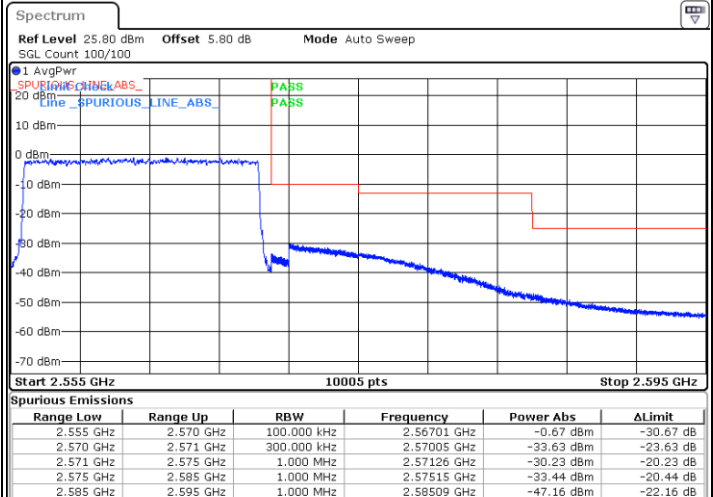
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



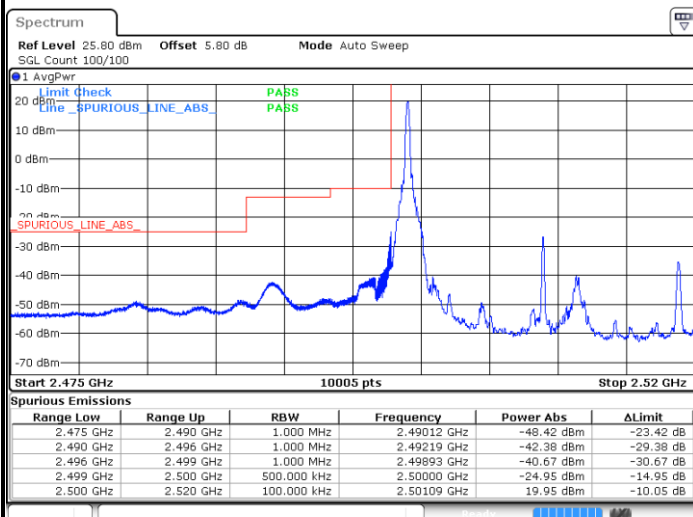
Highest Band Edge / Full RB



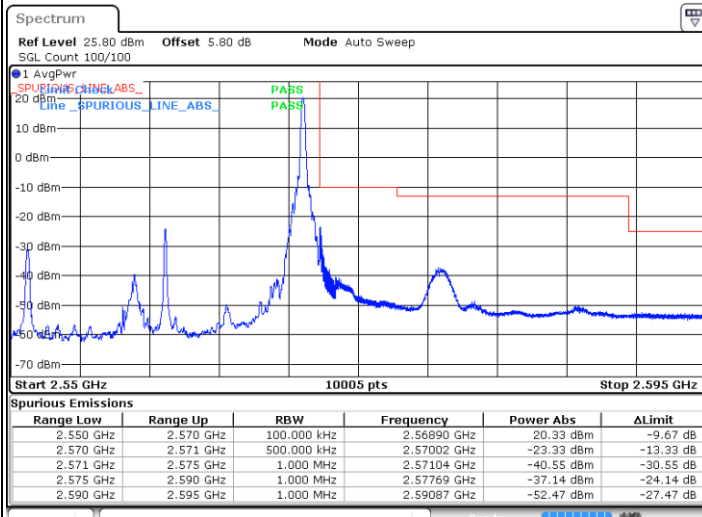


LTE Band 7 / 20MHz / QPSK

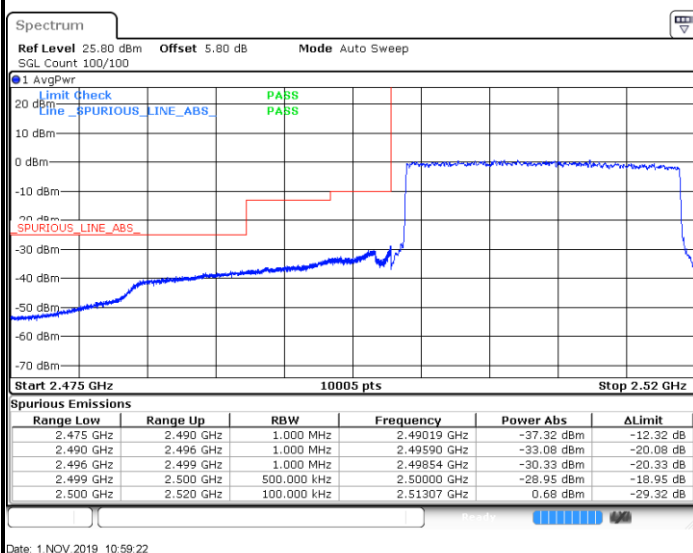
Lowest Band Edge / 1 RB



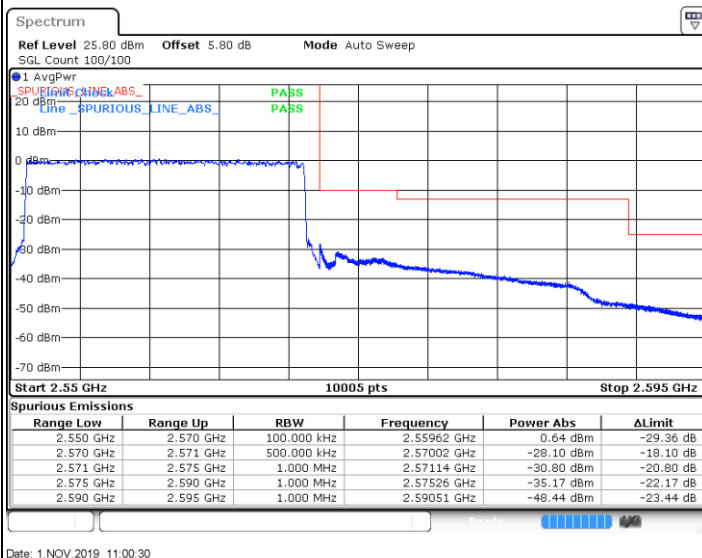
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



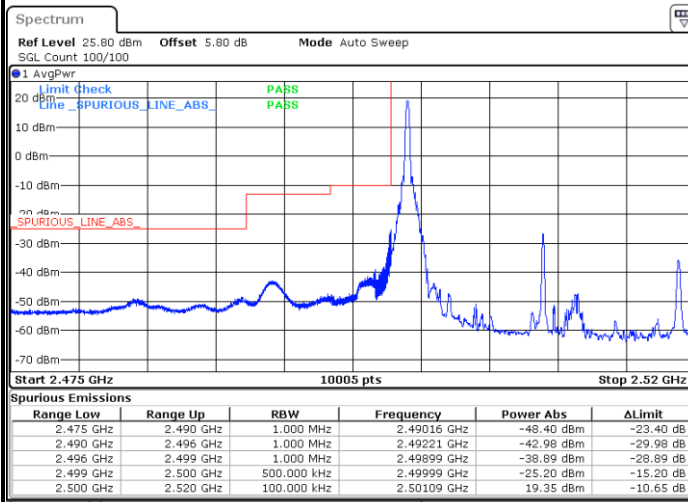
Highest Band Edge / Full RB



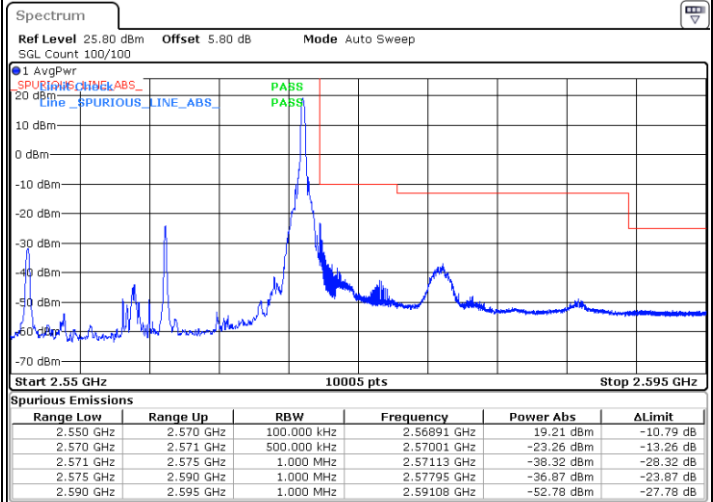


LTE Band 7 / 20MHz / 16QAM

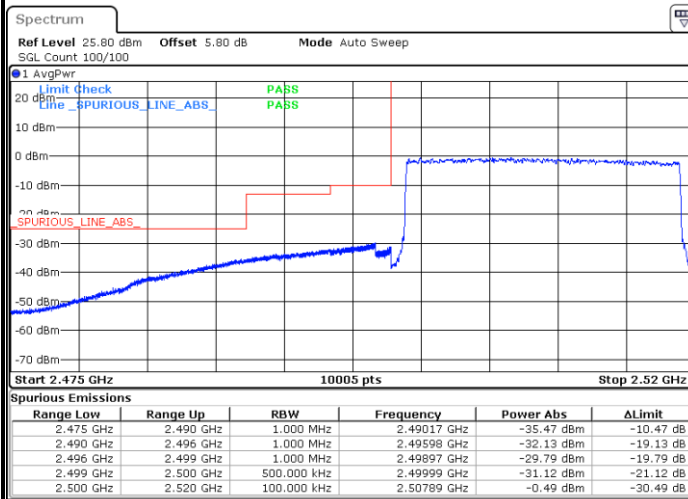
Lowest Band Edge / 1 RB



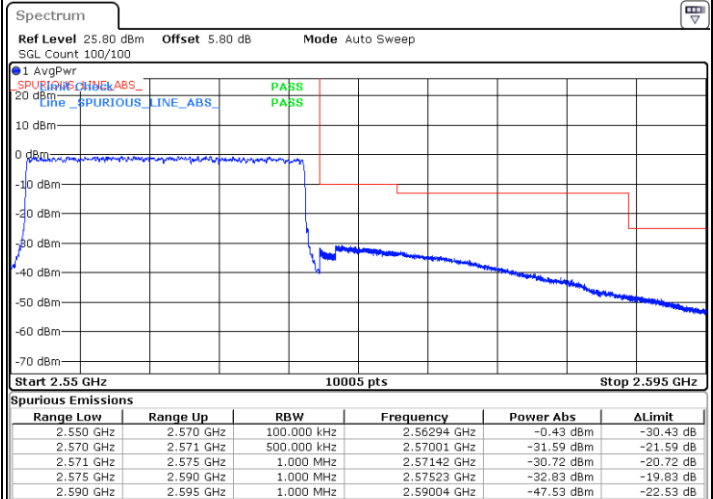
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



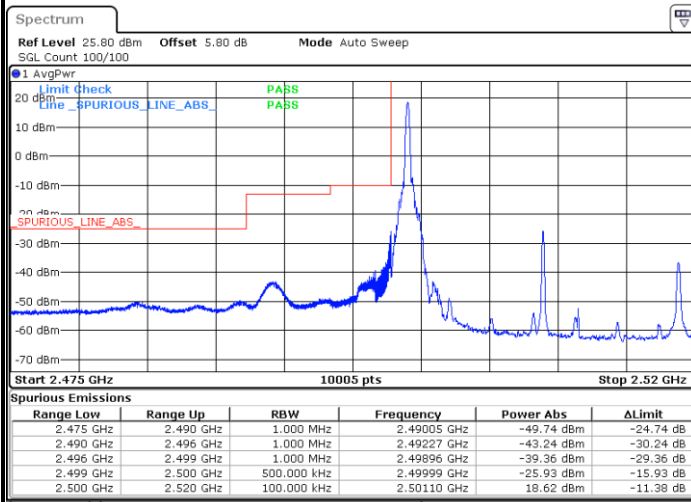
Highest Band Edge / Full RB





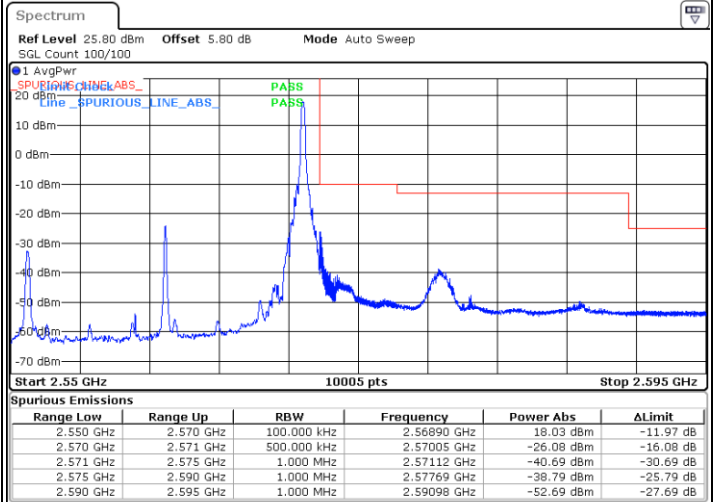
LTE Band 7 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



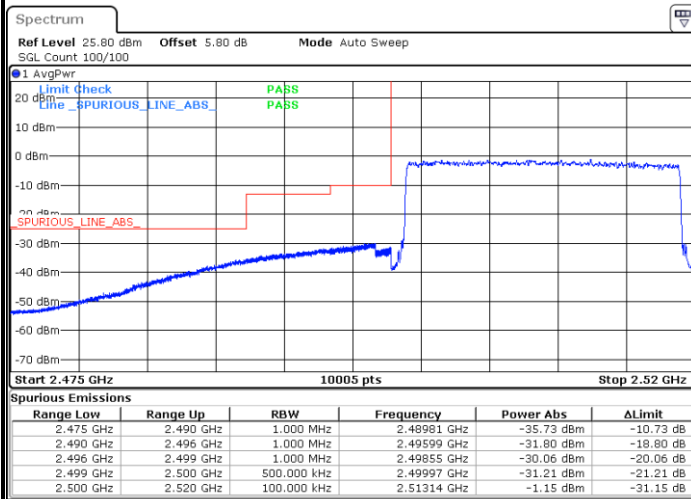
Date: 1.NOV.2019 11:12:34

Highest Band Edge / 1 RB



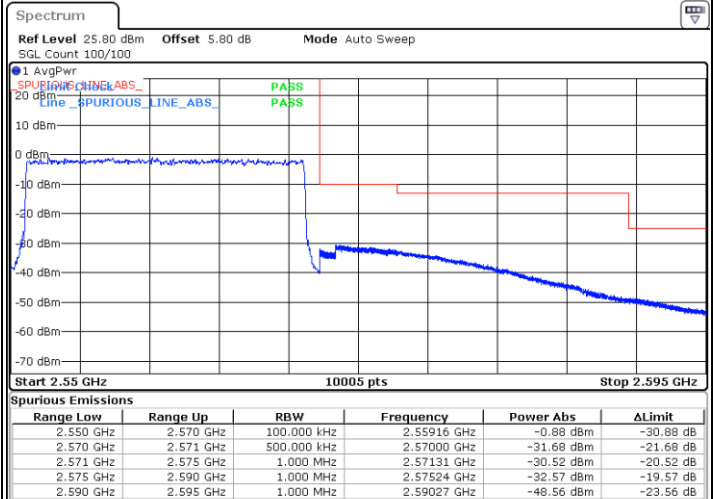
Date: 1.NOV.2019 11:14:50

Lowest Band Edge / Full RB



Date: 1.NOV.2019 11:11:25

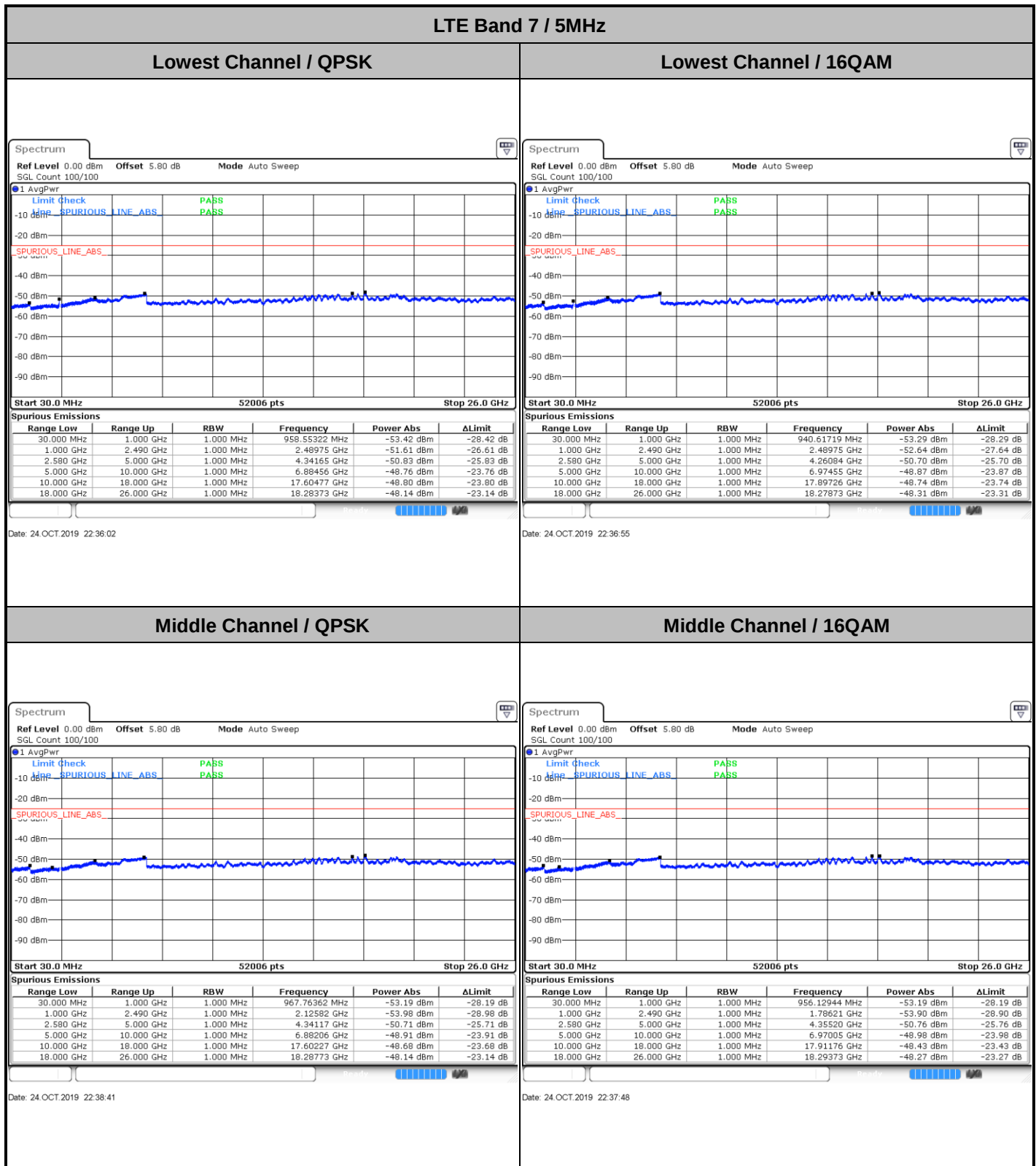
Highest Band Edge / Full RB



Date: 1.NOV.2019 11:13:42



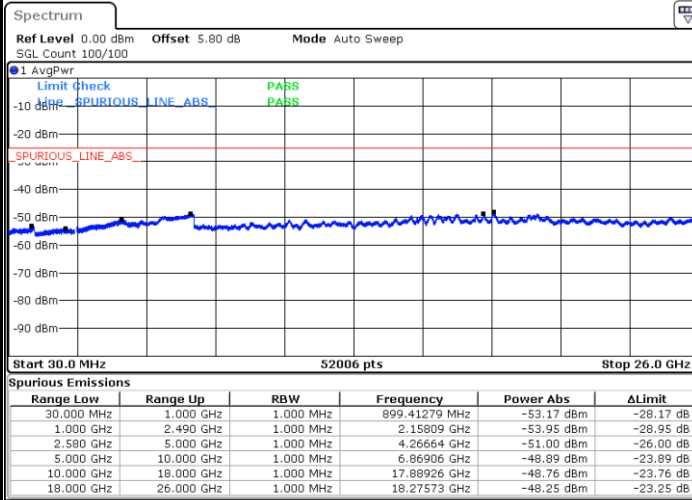
Conducted Spurious Emission





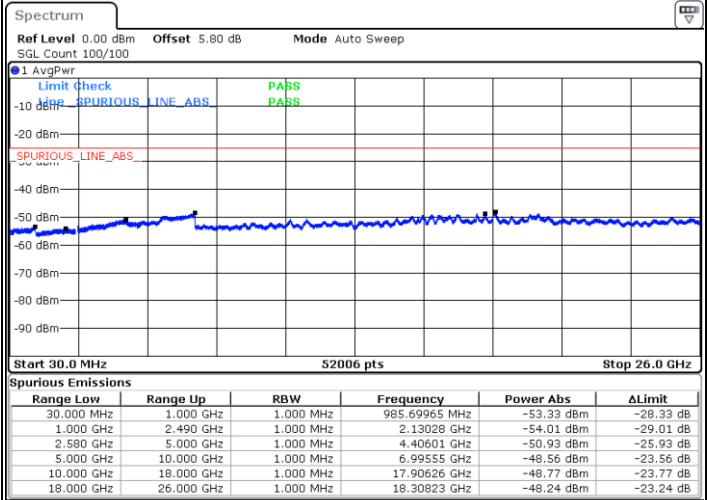
LTE Band 7 / 5MHz

Highest Channel / QPSK



Date: 24.OCT.2019 22:39:35

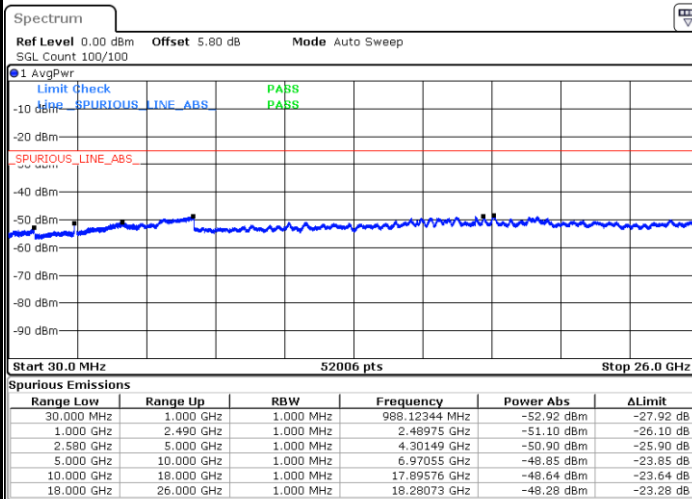
Highest Channel / 16QAM



Date: 24.OCT.2019 22:40:28

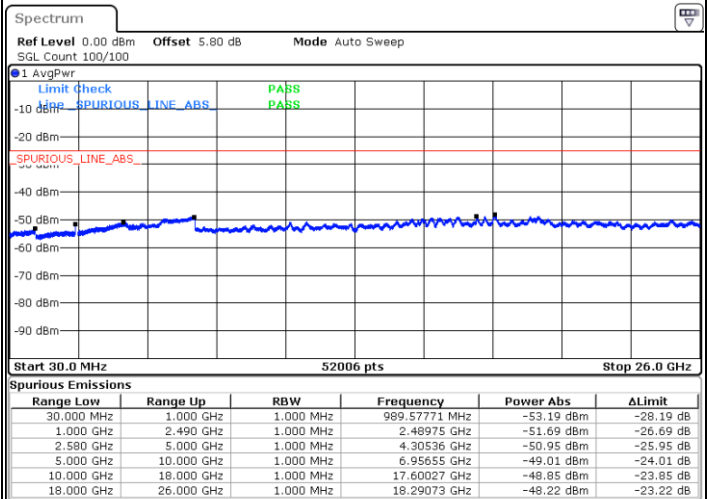
LTE Band 7 / 10MHz

Lowest Channel / QPSK



Date: 24.OCT.2019 22:52:32

Lowest Channel / 16QAM

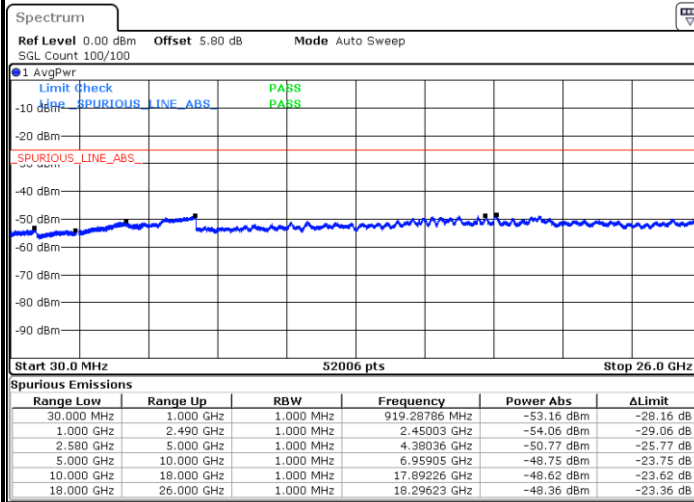


Date: 24.OCT.2019 22:53:25



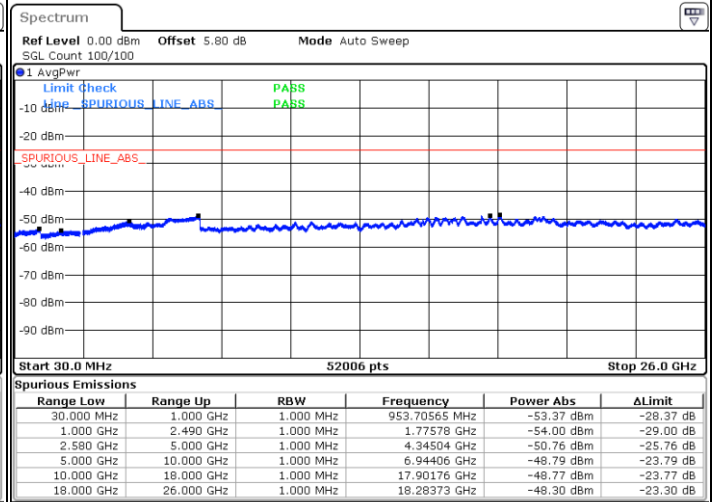
LTE Band 7 / 10MHz

Middle Channel / QPSK



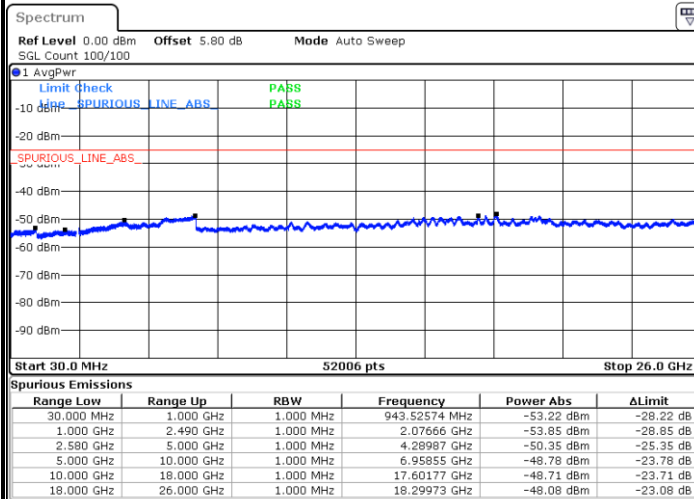
Date: 24.OCT.2019 22:55:11

Middle Channel / 16QAM



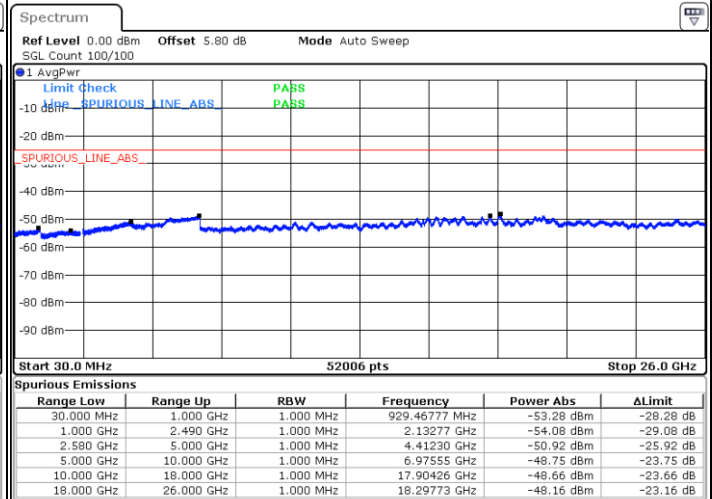
Date: 24.OCT.2019 22:54:18

Highest Channel / QPSK



Date: 24.OCT.2019 22:56:04

Highest Channel / 16QAM

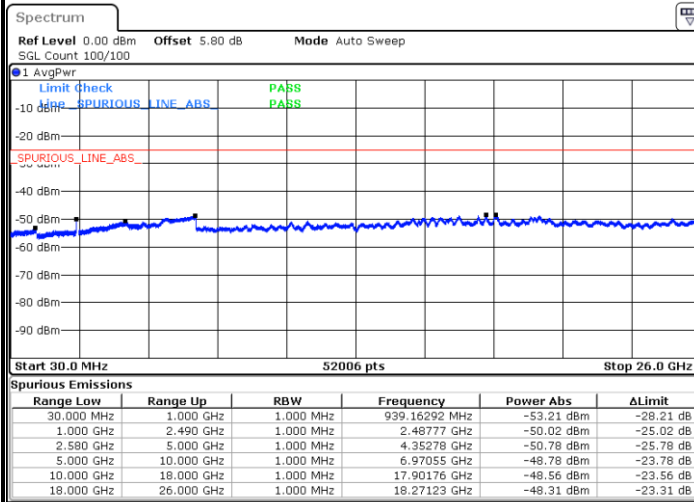


Date: 24.OCT.2019 22:56:57



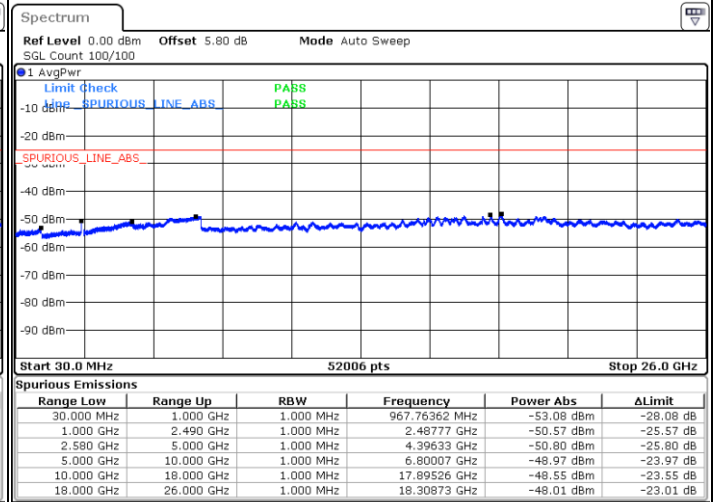
LTE Band 7 / 15MHz

Lowest Channel / QPSK



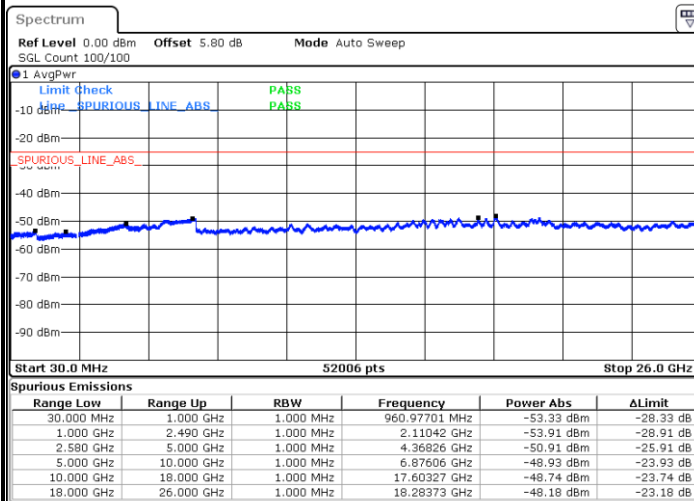
Date: 24.OCT.2019 23:09:02

Lowest Channel / 16QAM



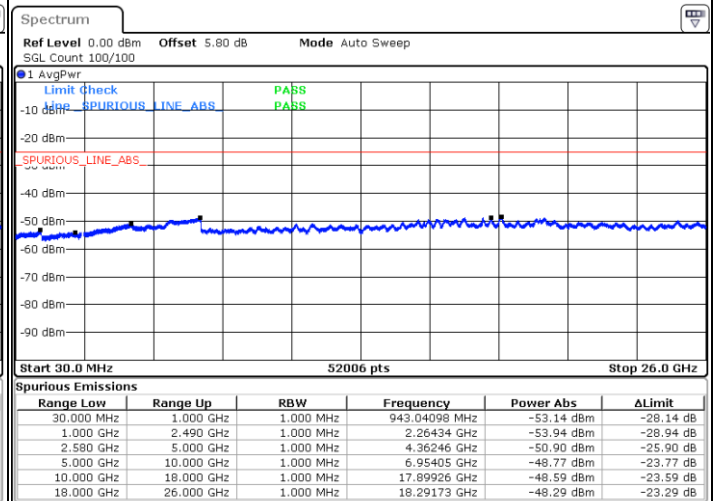
Date: 24.OCT.2019 23:09:55

Middle Channel / QPSK



Date: 24.OCT.2019 23:11:42

Middle Channel / 16QAM

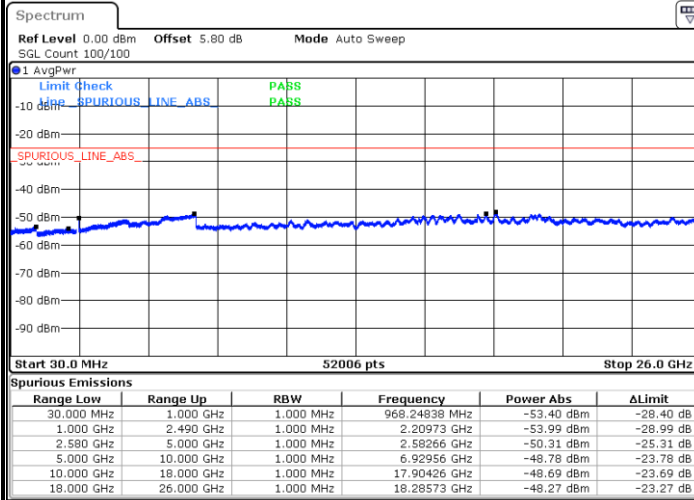


Date: 24.OCT.2019 23:10:48



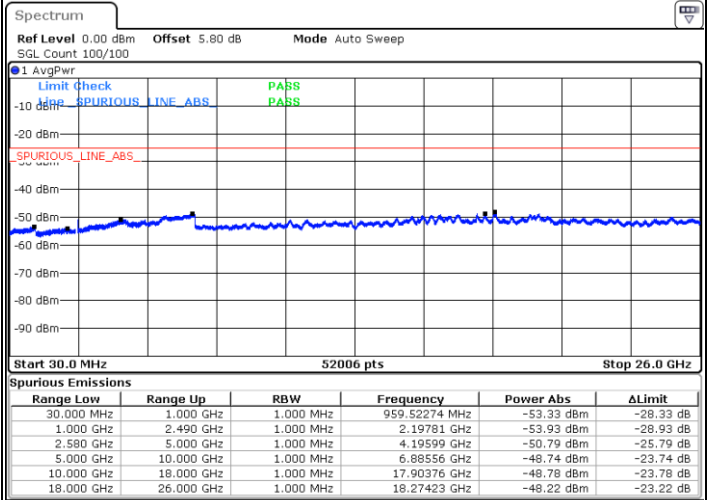
LTE Band7 / 15MHz

Highest Channel / QPSK



Date: 24.OCT.2019 23:12:34

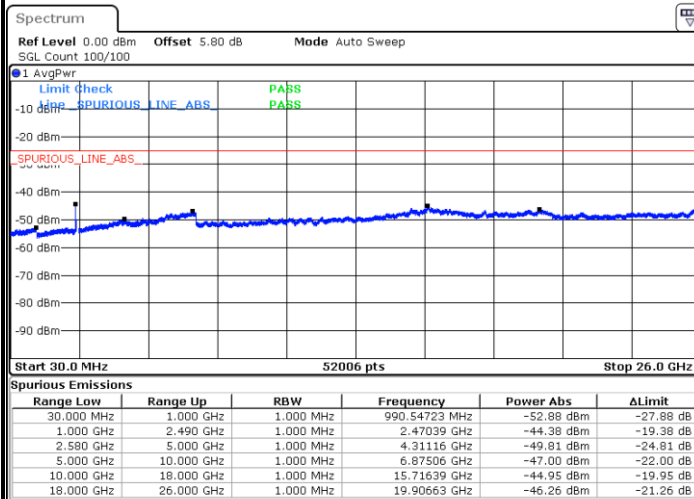
Highest Channel / 16QAM



Date: 24.OCT.2019 23:13:27

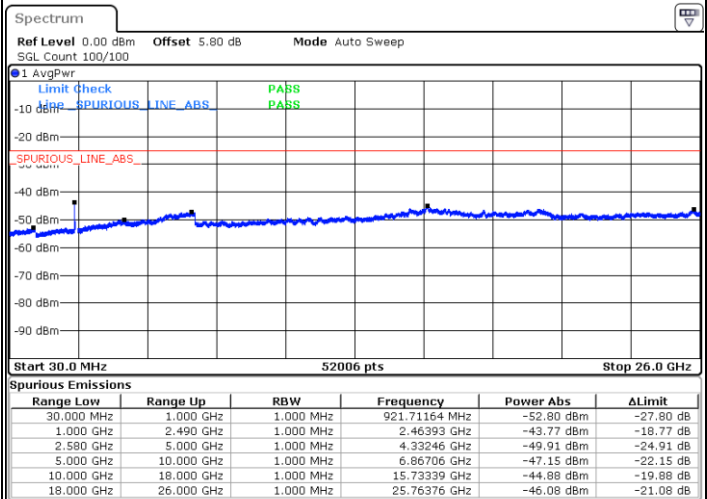
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 1.NOV.2019 11:04:47

Lowest Channel / 16QAM

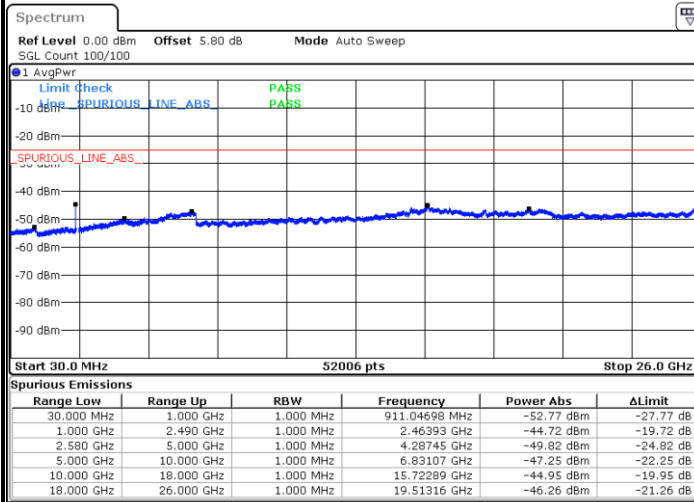


Date: 1.NOV.2019 11:05:40



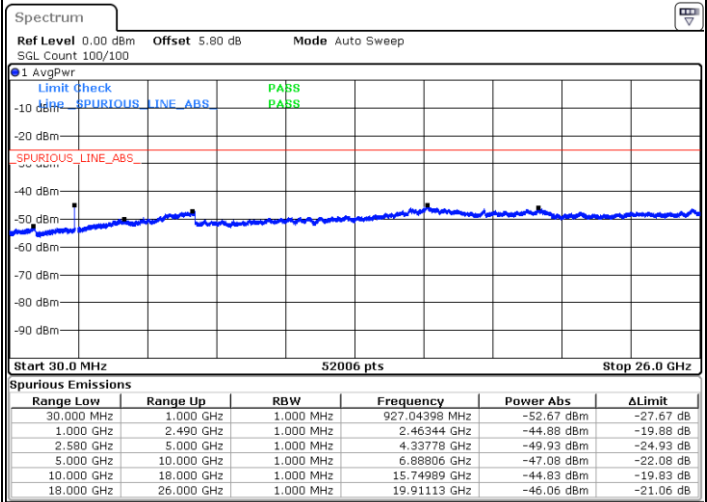
LTE Band 7 / 20MHz

Middle Channel / QPSK



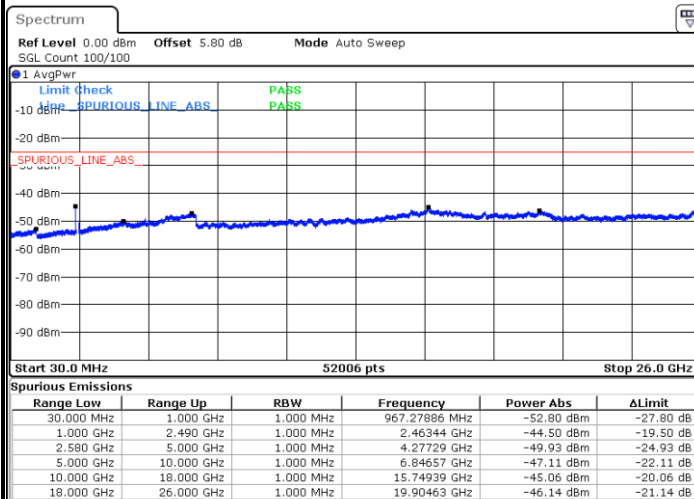
Date: 1.NOV.2019 11:07:28

Middle Channel / 16QAM



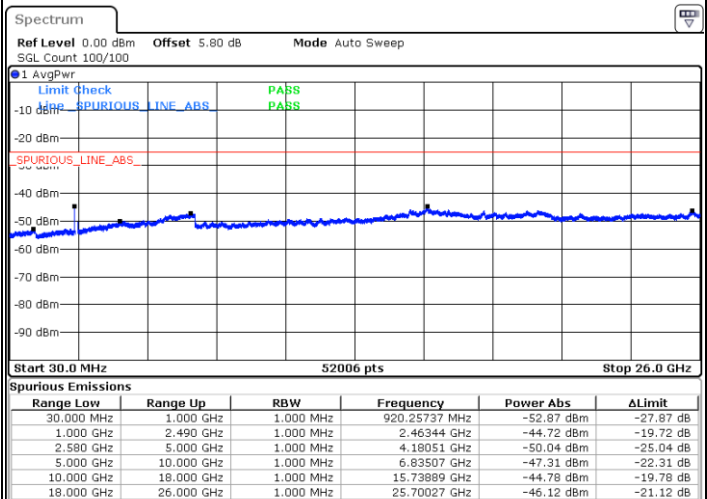
Date: 1.NOV.2019 11:06:34

Highest Channel / QPSK



Date: 1.NOV.2019 11:08:22

Highest Channel / 16QAM

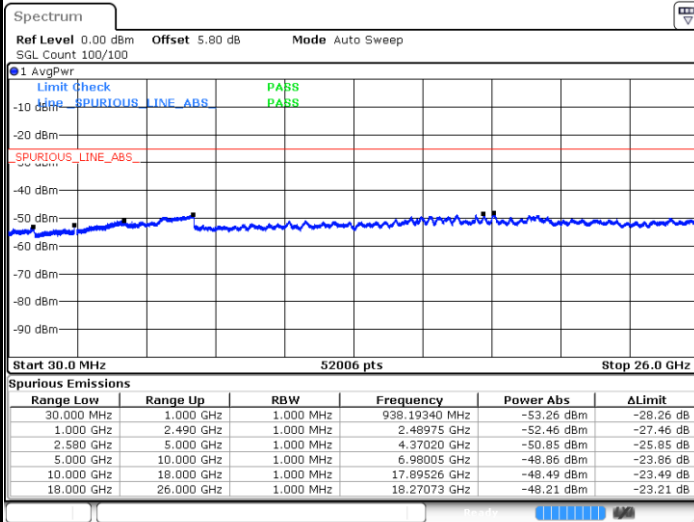


Date: 1.NOV.2019 11:09:16



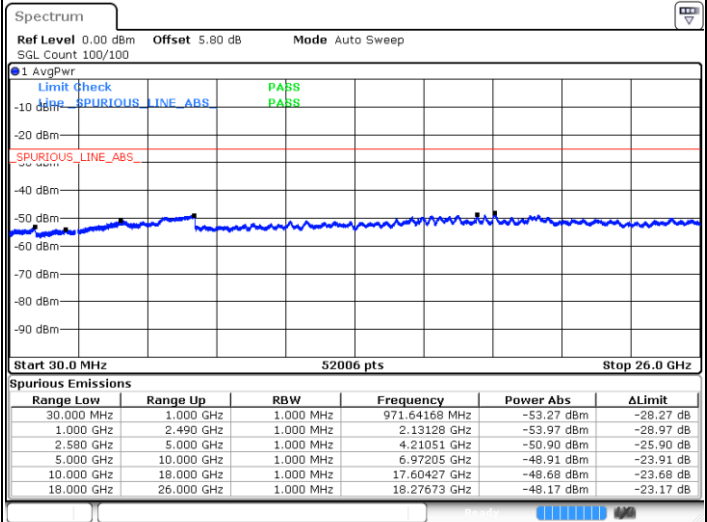
LTE Band 7 / 5MHz

Lowest Channel / 64QAM



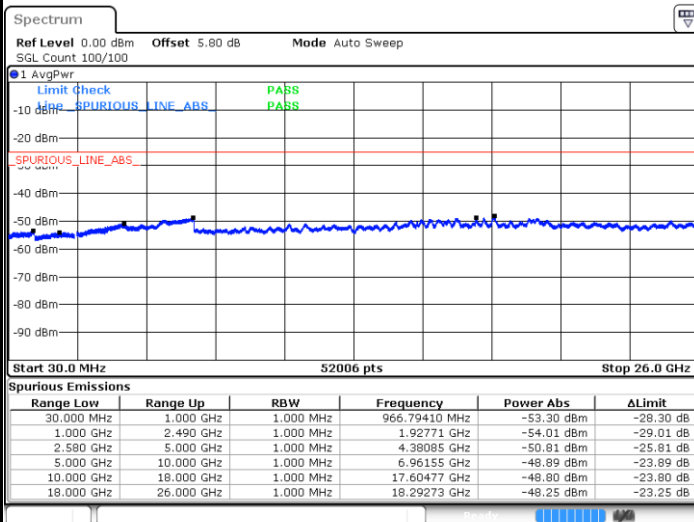
Date: 24.OCT.2019 23:31:51

Middle Channel / 64QAM



Date: 24.OCT.2019 23:32:44

Highest Channel / 64QAM

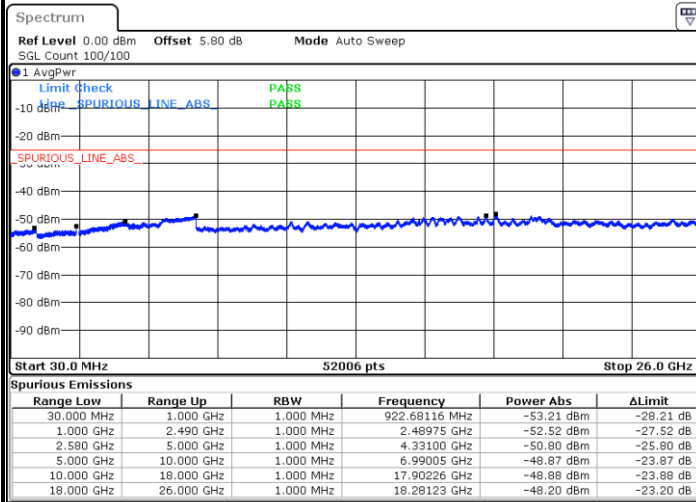


Date: 24.OCT.2019 23:33:37



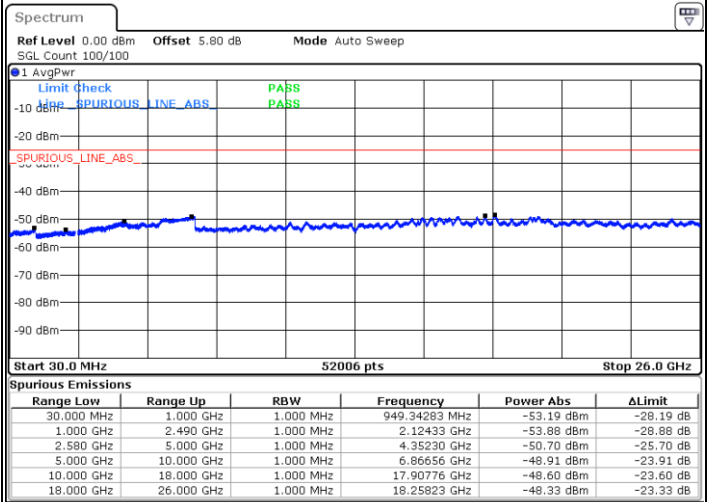
LTE Band 7 / 10MHz

Lowest Channel / 64QAM



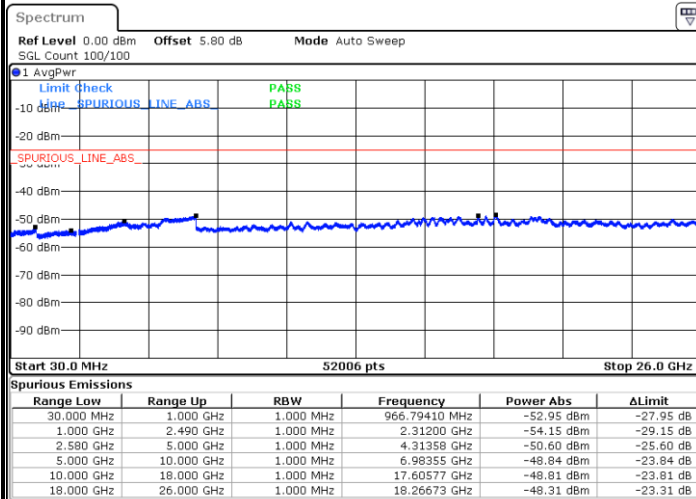
Date: 24.OCT.2019 23:40:06

Middle Channel / 64QAM



Date: 24.OCT.2019 23:40:59

Highest Channel / 64QAM

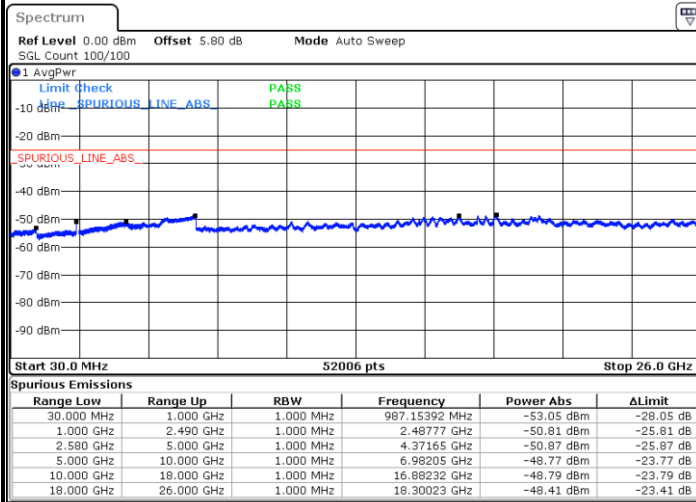


Date: 24.OCT.2019 23:41:52



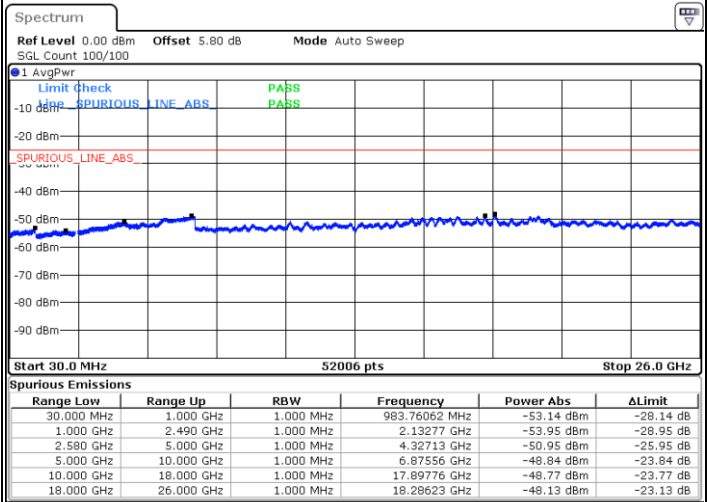
LTE Band 7 / 15MHz

Lowest Channel / 64QAM



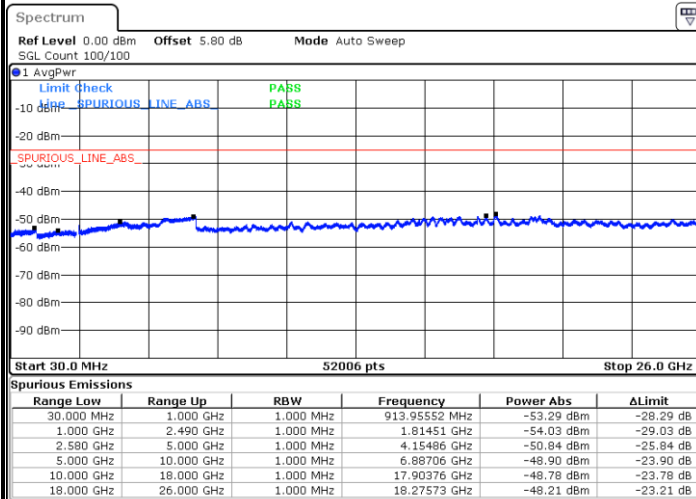
Date: 24.OCT.2019 23:52:57

Middle Channel / 64QAM



Date: 24.OCT.2019 23:53:50

Highest Channel / 64QAM

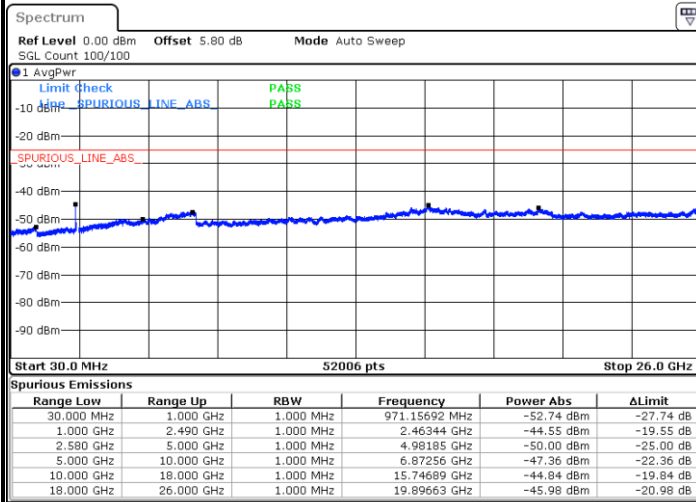


Date: 24.OCT.2019 23:54:44



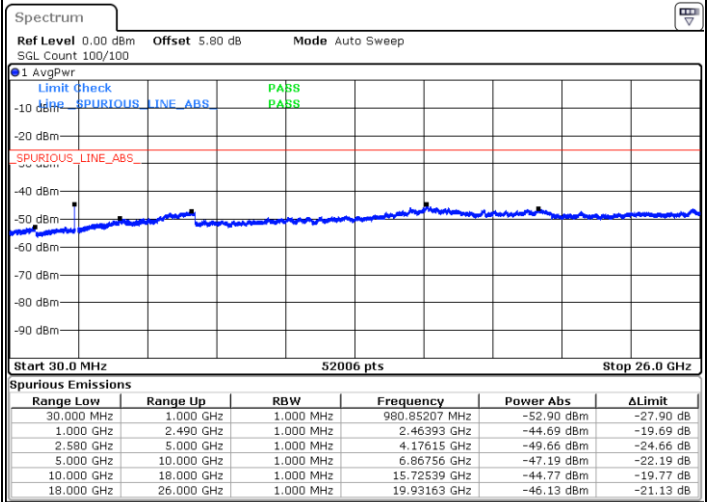
LTE Band 7 / 20MHz

Lowest Channel / 64QAM



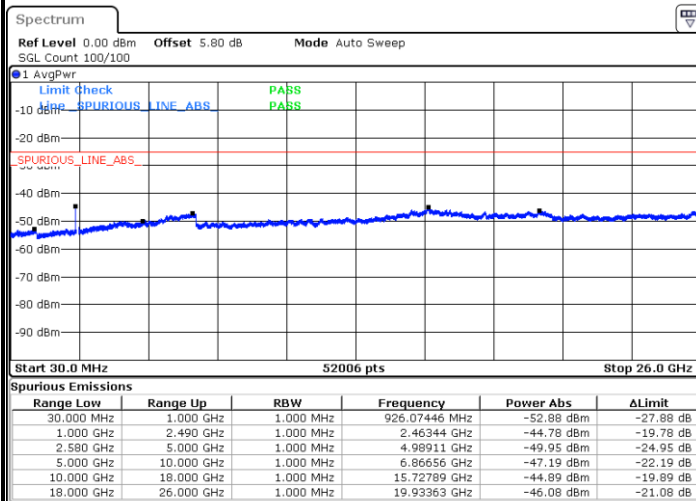
Date: 1.NOV.2019 11:15:42

Middle Channel / 64QAM



Date: 1.NOV.2019 11:16:36

Highest Channel / 64QAM



Date: 1.NOV.2019 11:17:30

Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0034	PASS
40	Normal Voltage	0.0024	
30	Normal Voltage	0.0040	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0025	
0	Normal Voltage	0.0038	
-10	Normal Voltage	0.0007	
-20	Normal Voltage	0.0010	
-30	Normal Voltage	0.0026	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0030	
20	Battery End Point	0.0033	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.2V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 12

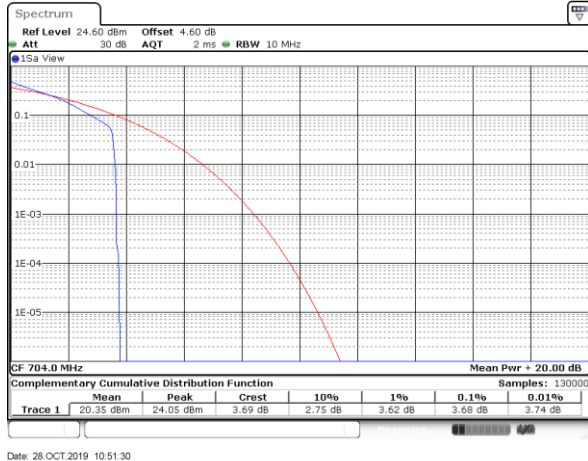
Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.68	4.75	5.62	5.97	PASS
Middle CH	3.62	4.72	5.04	6.00	
Highest CH	3.71	4.64	5.22	6.03	
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.28	5.94			PASS
Middle CH	5.16	6.03			
Highest CH	5.45	5.94			

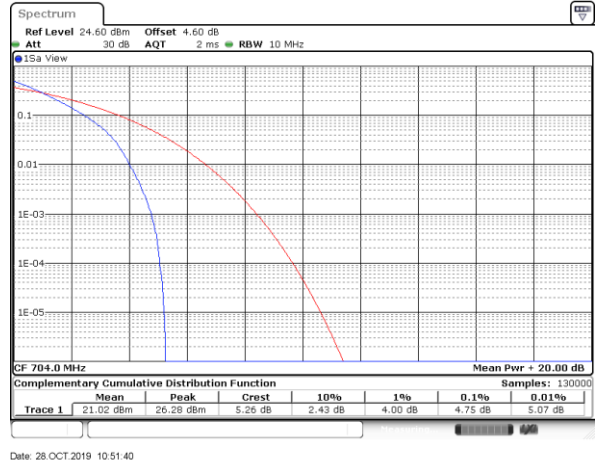


LTE Band 12 / 10MHz / QPSK

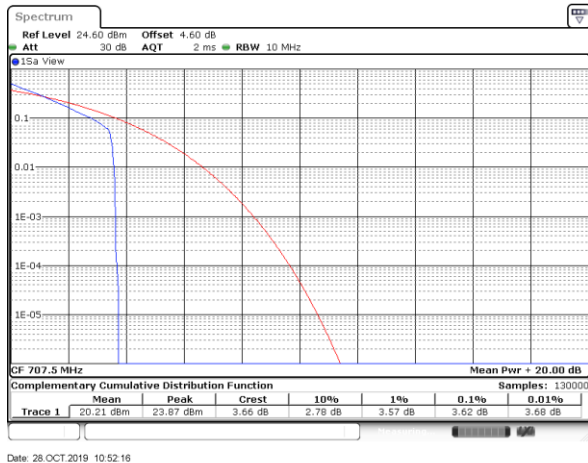
Lowest Channel / 1RB



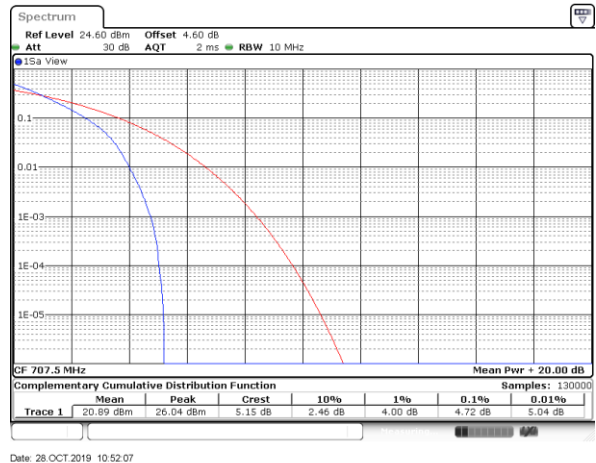
Lowest Channel / Full RB



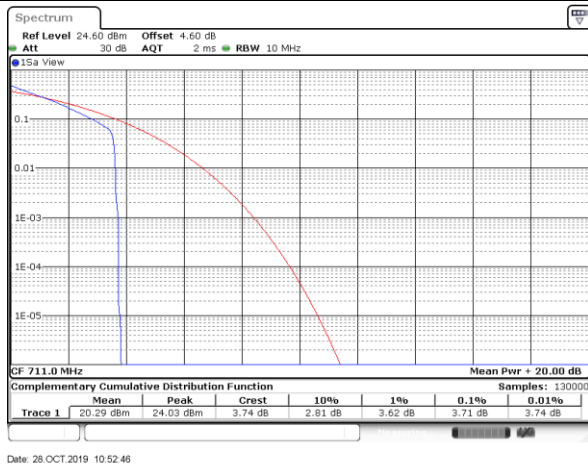
Middle Channel / 1RB



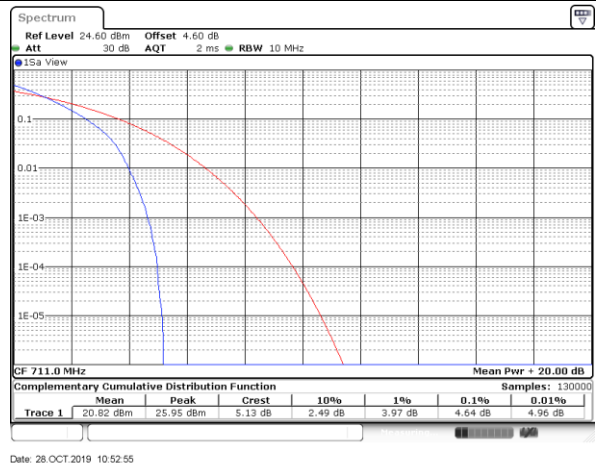
Middle Channel / Full RB



Highest Channel / 1RB

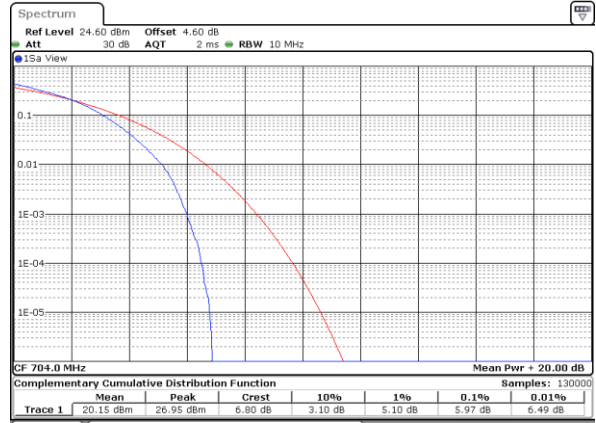


Highest Channel / Full RB

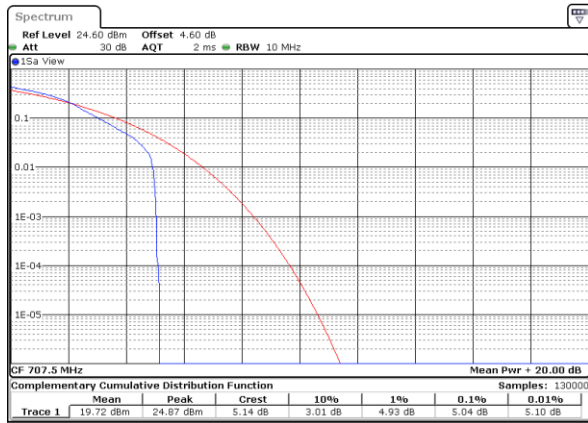


LTE Band 12 / 10MHz / 16QAM
Lowest Channel / 1RB

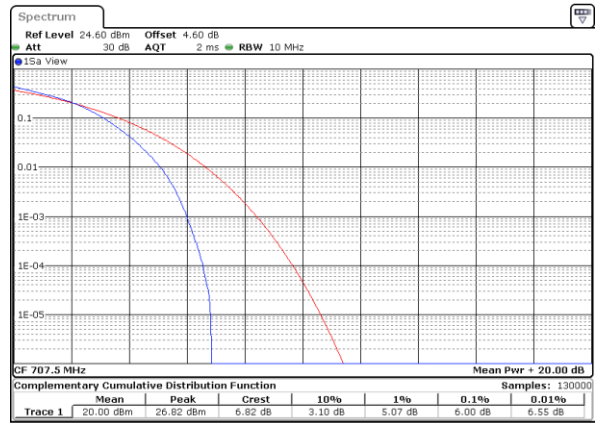

Date: 28.OCT.2019 10:51:21

Lowest Channel / Full RB


Date: 28.OCT.2019 10:51:49

Middle Channel / 1RB


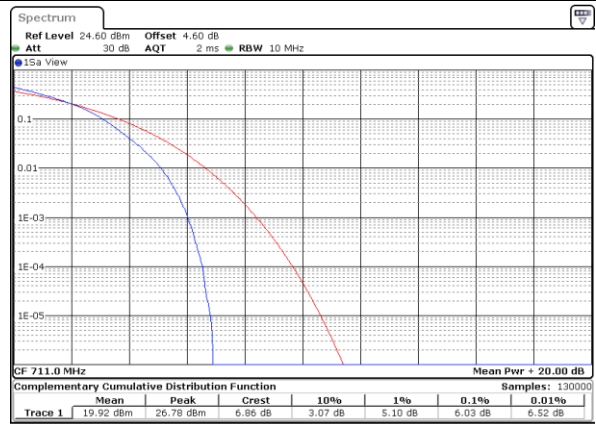
Date: 28.OCT.2019 10:52:27

Middle Channel / Full RB


Date: 28.OCT.2019 10:51:58

Highest Channel / 1RB


Date: 28.OCT.2019 10:52:37

Highest Channel / Full RB


Date: 28.OCT.2019 10:53:06

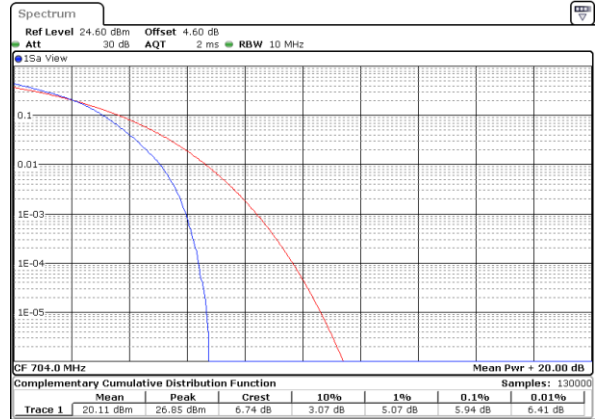


LTE Band 12 / 10MHz / 64QAM

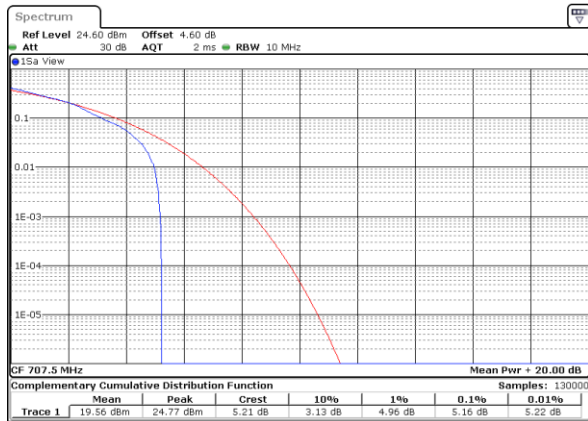
Lowest Channel / 1RB



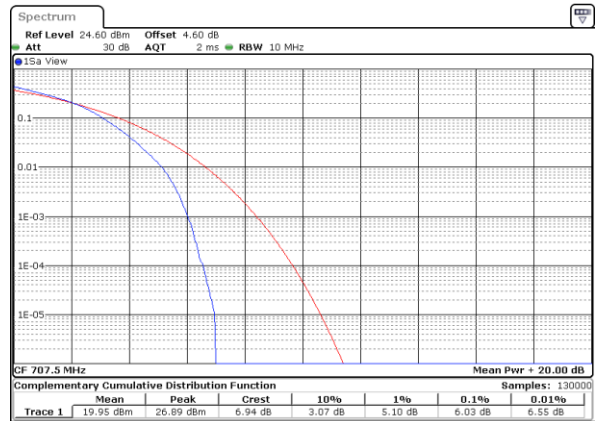
Lowest Channel / Full RB



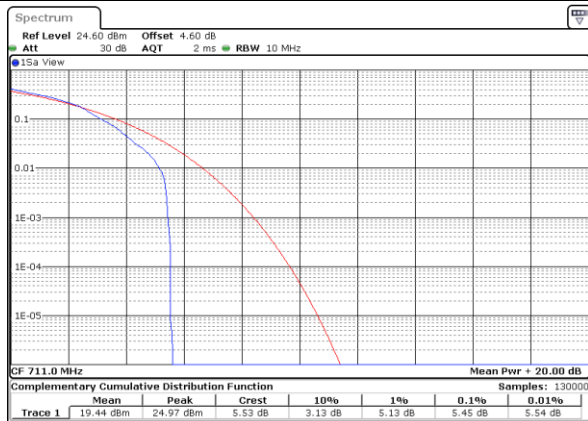
Middle Channel / 1RB



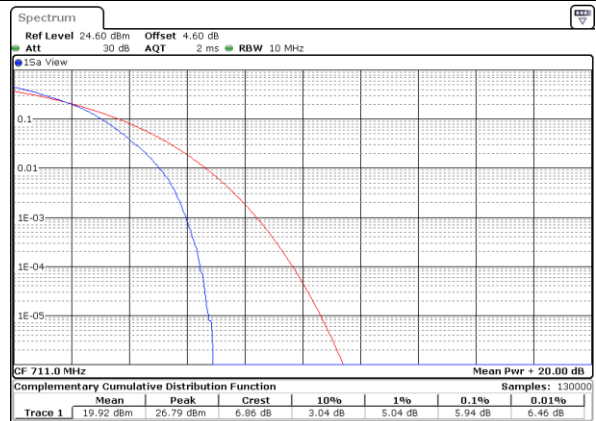
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



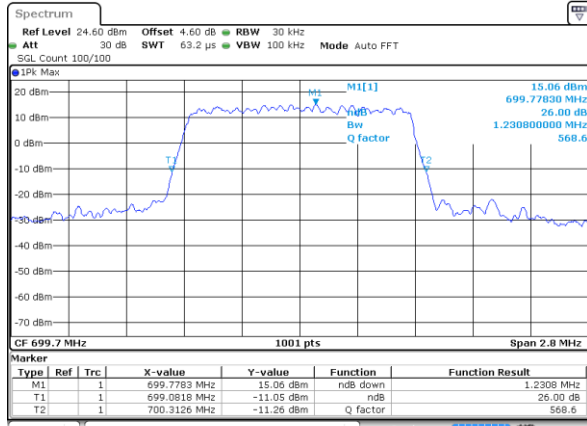
**26dB Bandwidth**

Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.231	1.228	3.009	3.015	4.935	5.015	9.85	9.89				
Middle CH	1.225	1.228	3.027	3.021	4.915	4.975	9.67	9.81				
Highest CH	1.231	1.228	3.039	3.045	4.925	4.895	9.97	9.73				
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.217		2.991		4.895		9.73					
Middle CH	1.236		3.063		4.915		9.81					
Highest CH	1.231		3.027		4.885		9.69					



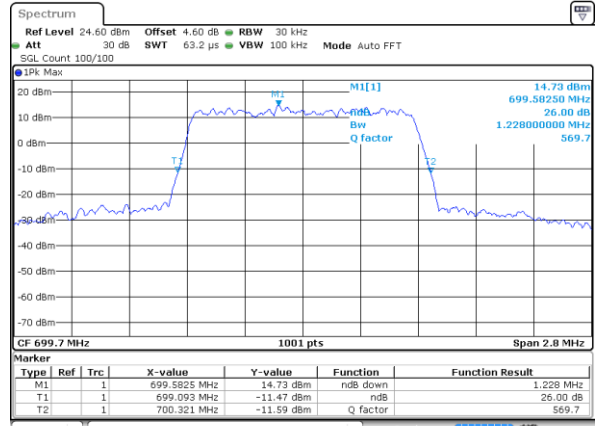
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



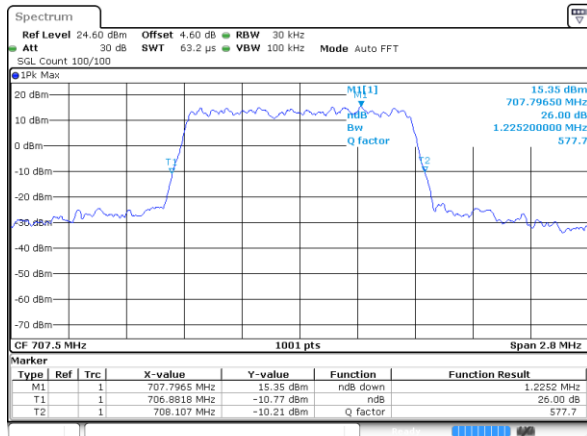
Date: 28.OCT.2019 09:12:52

Lowest Channel / 1.4MHz / 16QAM



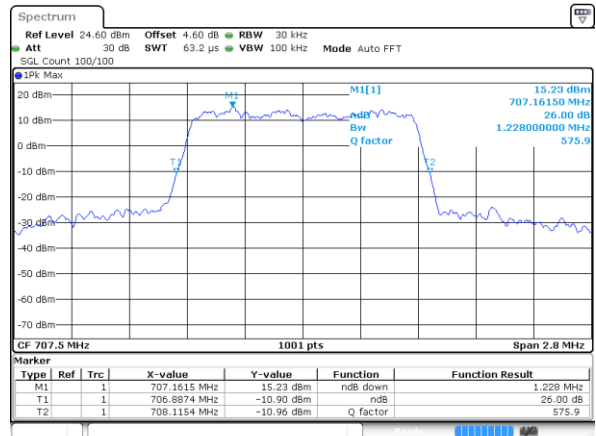
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Middle Channel / 1.4MHz / QPSK



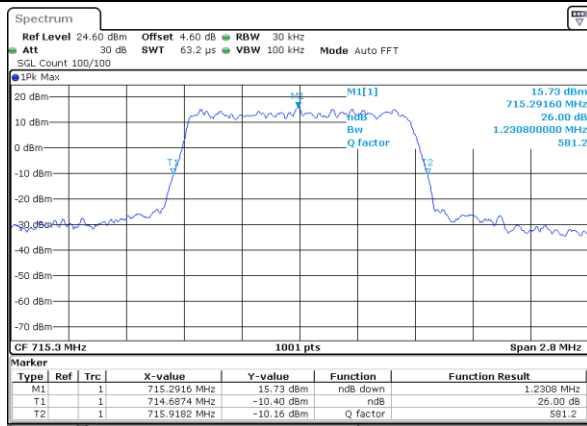
Date: 28.OCT.2019 09:12:23

Middle Channel / 1.4MHz / 16QAM



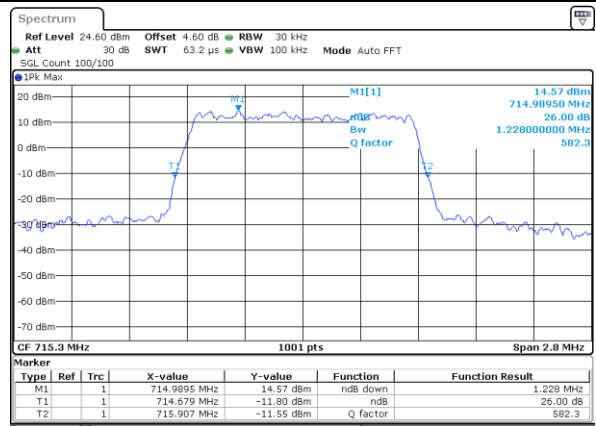
Date: 28.OCT.2019 09:12:32

Highest Channel / 1.4MHz / QPSK



Date: 28.OCT.2019 09:12:13

Highest Channel / 1.4MHz / 16QAM

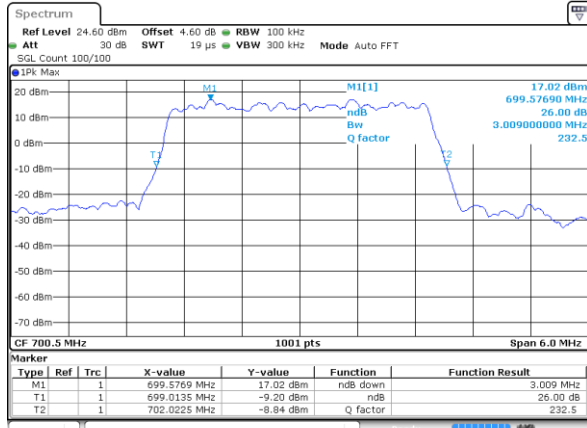


Date: 28.OCT.2019 09:12:03

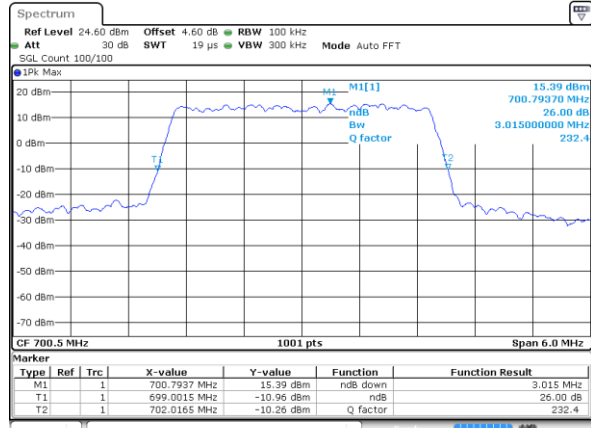


LTE Band 12

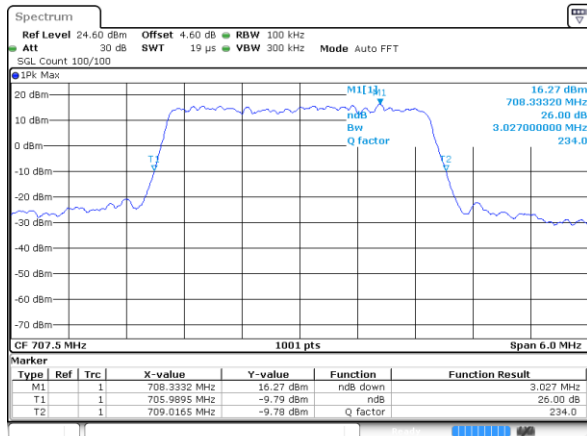
Lowest Channel / 3MHz / QPSK



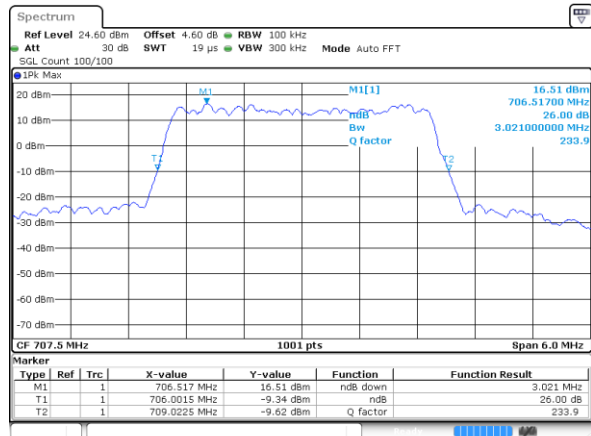
Lowest Channel / 3MHz / 16QAM



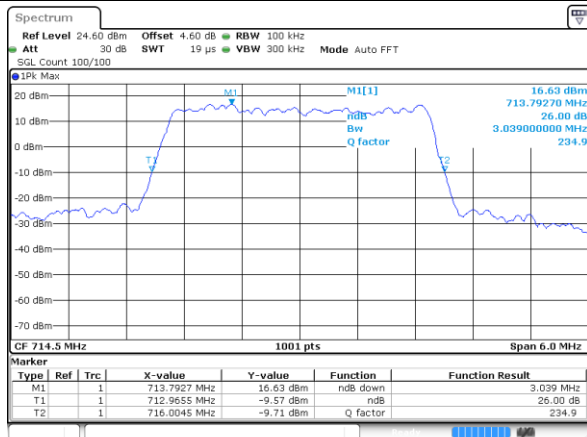
Middle Channel / 3MHz / QPSK



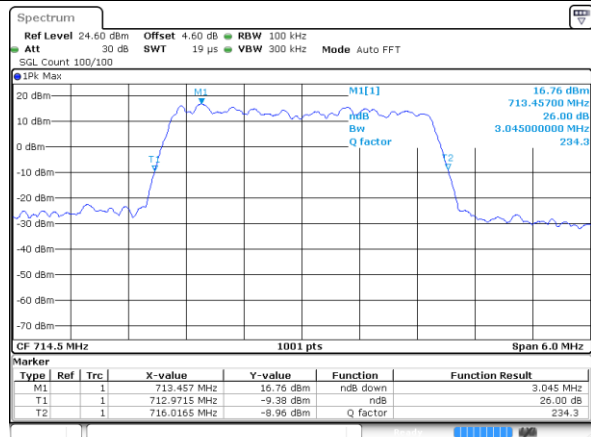
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



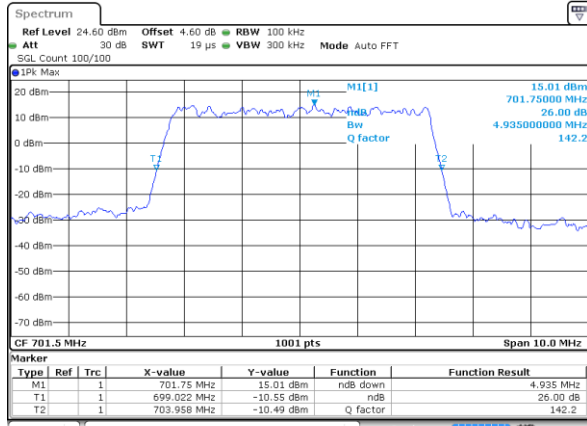
Highest Channel / 3MHz / 16QAM





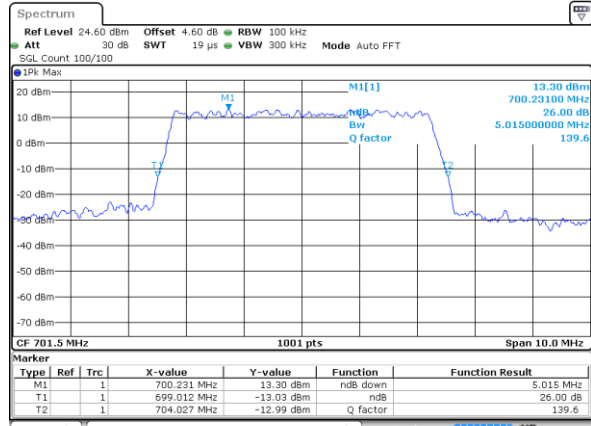
LTE Band 12

Lowest Channel / 5MHz / QPSK



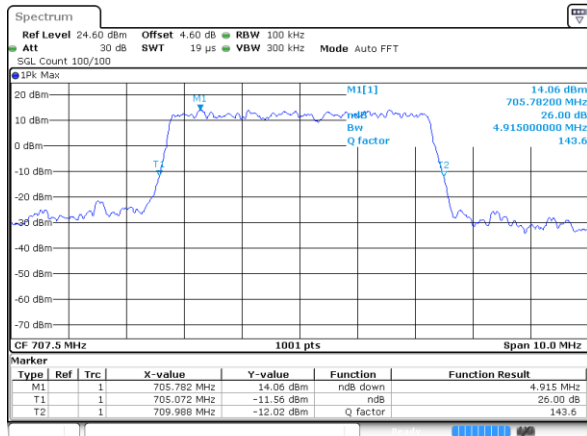
Date: 28.OCT.2019 09:45:43

Lowest Channel / 5MHz / 16QAM



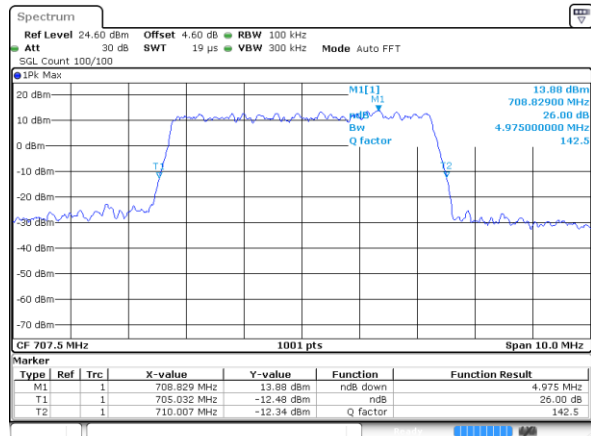
Date: 28.OCT.2019 09:45:33

Middle Channel / 5MHz / QPSK



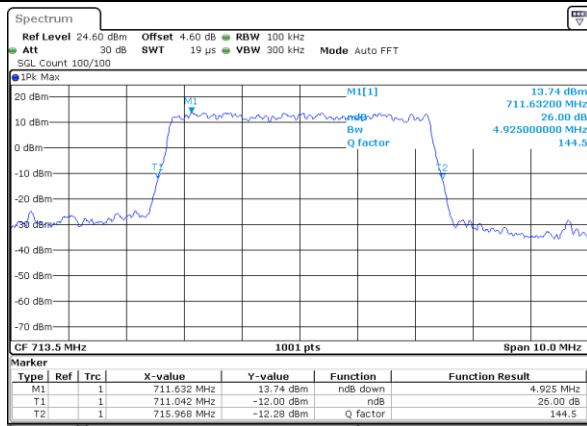
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Middle Channel / 5MHz / 16QAM



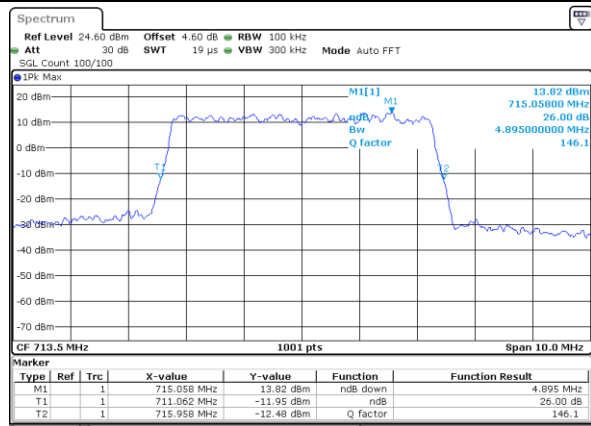
Date: 28.OCT.2019 09:45:23

Highest Channel / 5MHz / QPSK



Date: 28.OCT.2019 09:45:03

Highest Channel / 5MHz / 16QAM

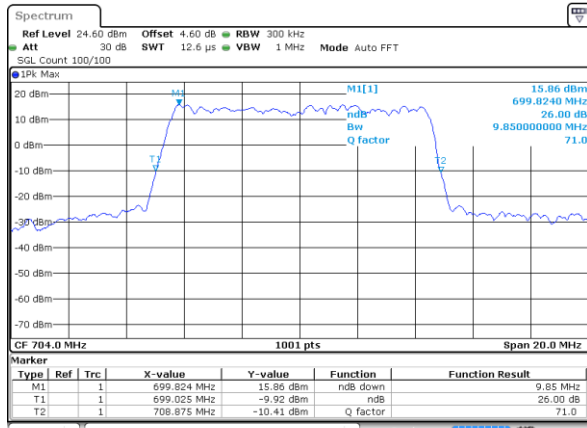


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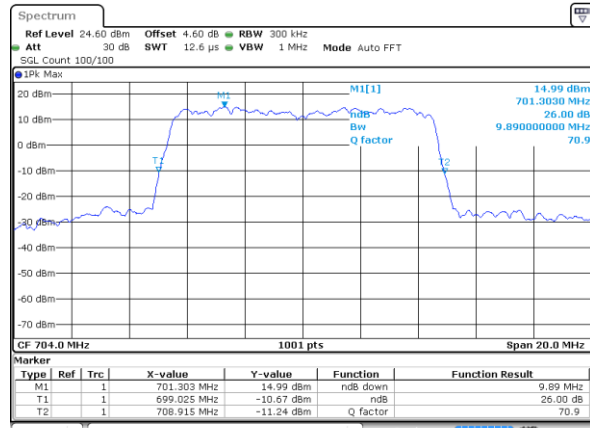
LTE Band 12

Lowest Channel / 10MHz / QPSK



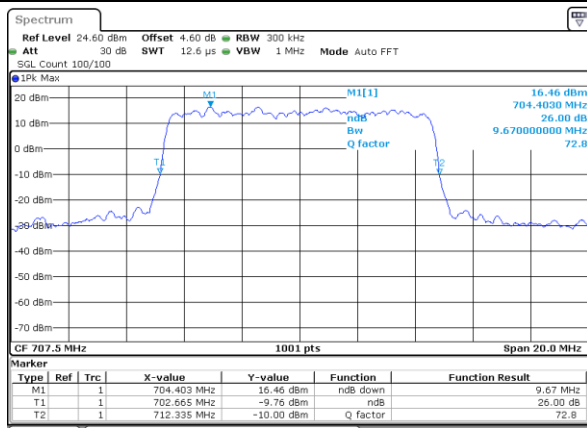
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Lowest Channel / 10MHz / 16QAM



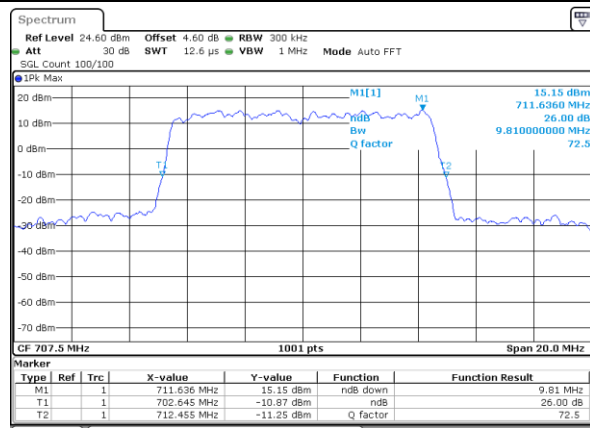
Date: 28.OCT.2019 10:01:57

Middle Channel / 10MHz / QPSK



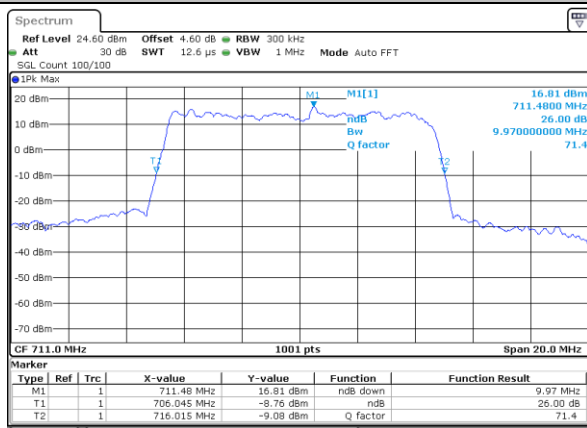
Date: 28.OCT.2019 10:01:37

Middle Channel / 10MHz / 16QAM



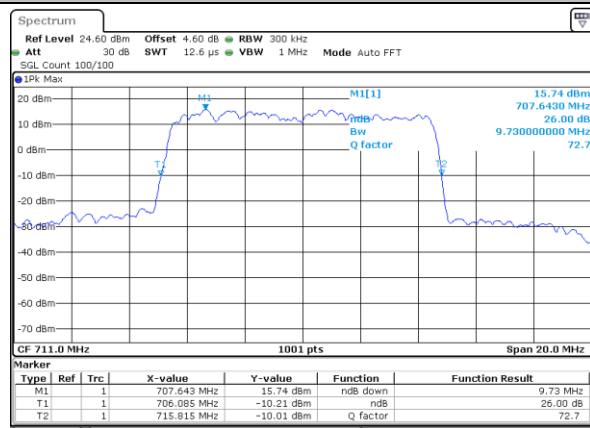
Date: 28.OCT.2019 10:01:47

Highest Channel / 10MHz / QPSK



Date: 28.OCT.2019 10:01:27

Highest Channel / 10MHz / 16QAM

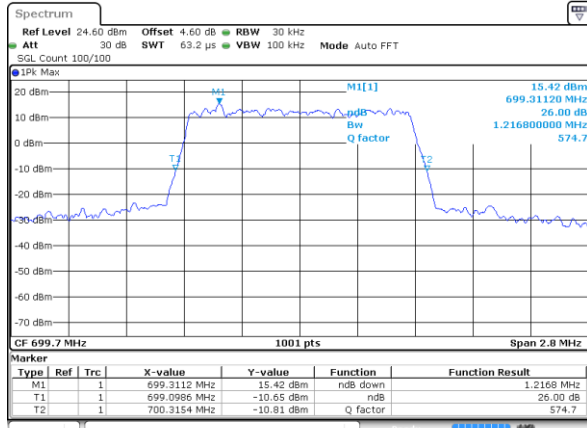


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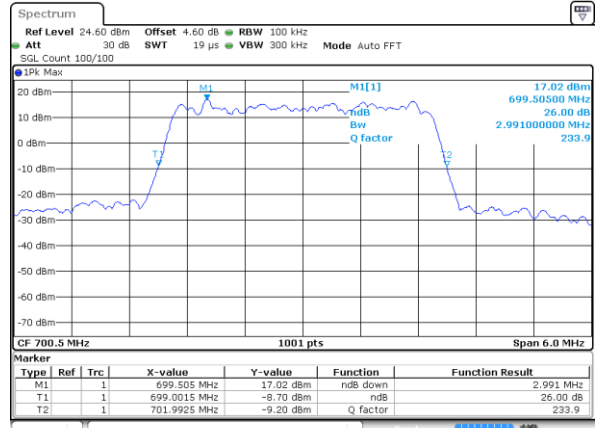


LTE Band 12

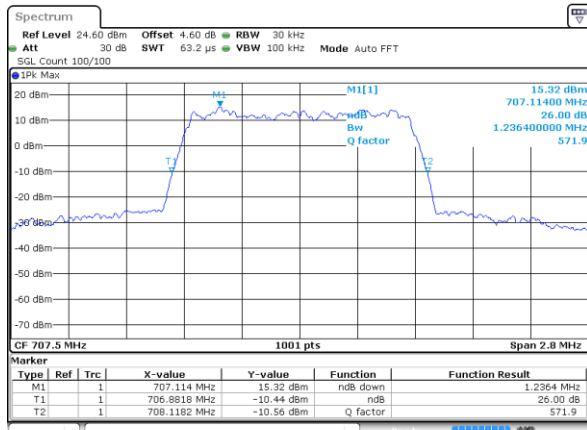
Lowest Channel / 1.4MHz / 64QAM



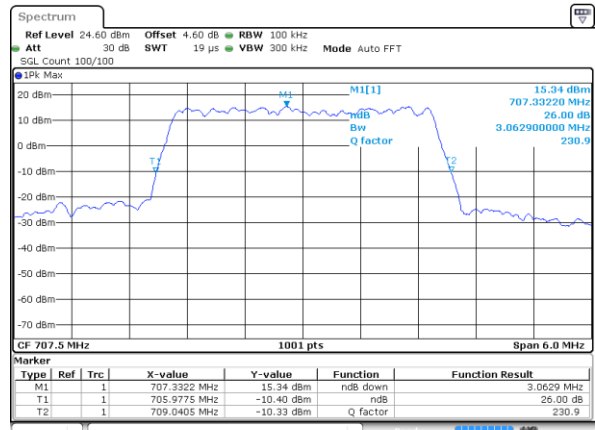
Lowest Channel / 3MHz / 64QAM



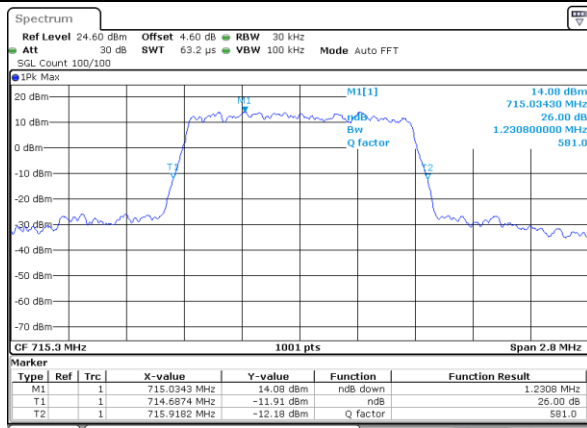
Middle Channel / 1.4MHz / 64QAM



Middle Channel / 3MHz / 64QAM



Highest Channel / 1.4MHz / 64QAM



Highest Channel / 3MHz / 64QAM

