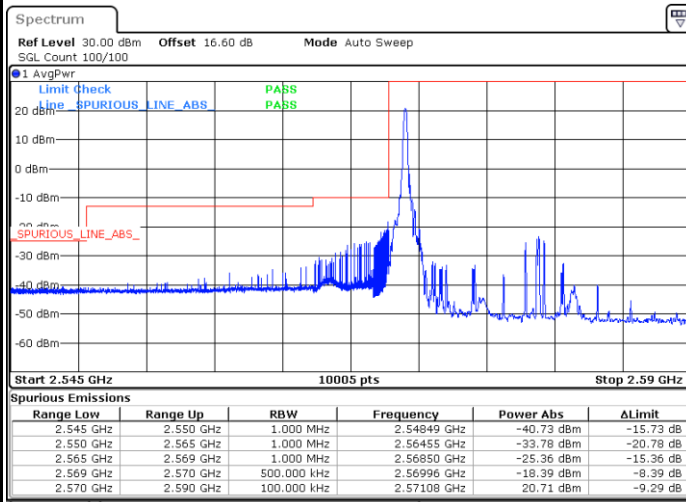


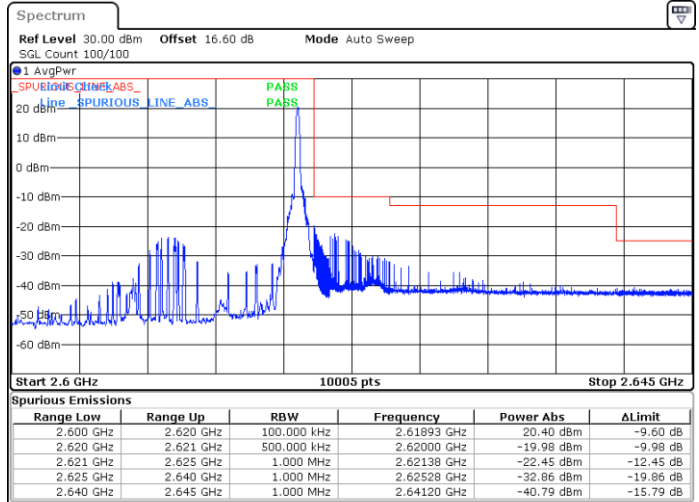


LTE Band 38 / 20MHz / QPSK

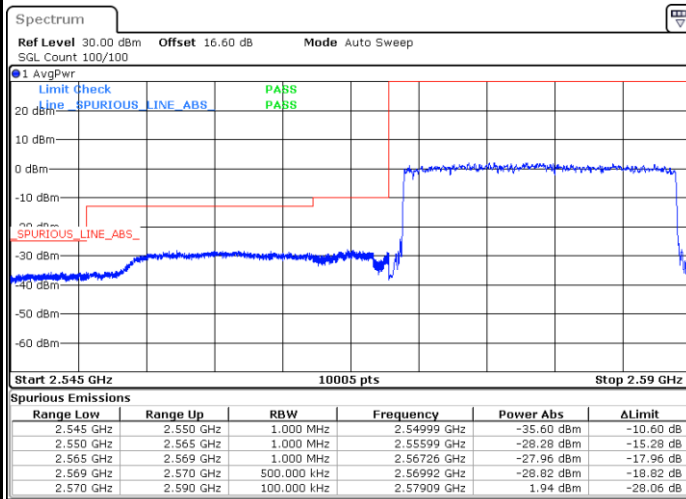
Lowest Band Edge / 1 RB



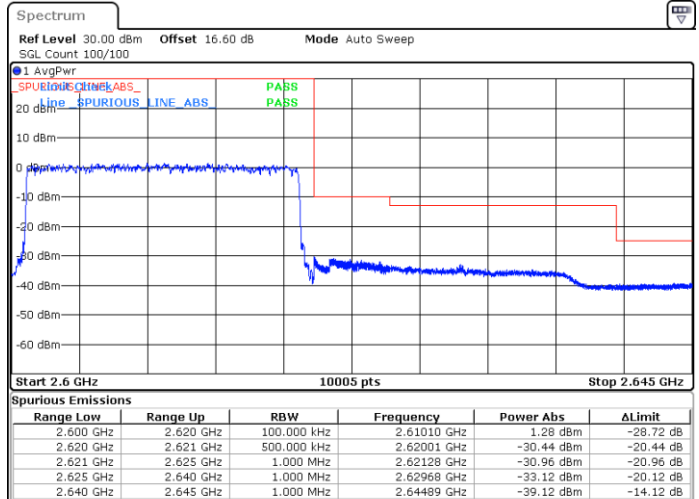
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



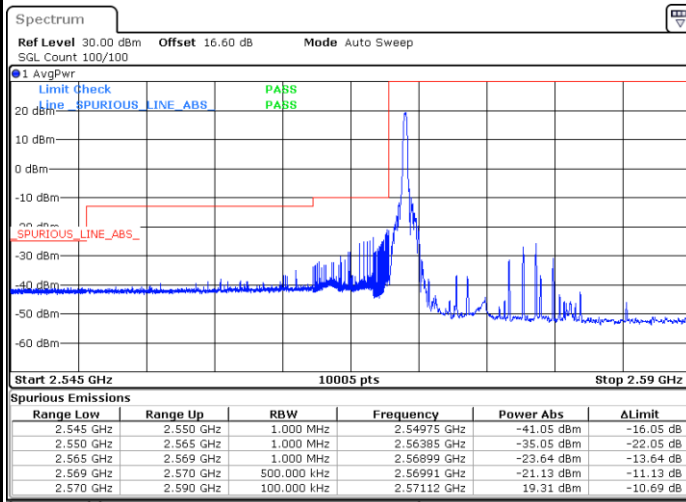
Highest Band Edge / Full RB



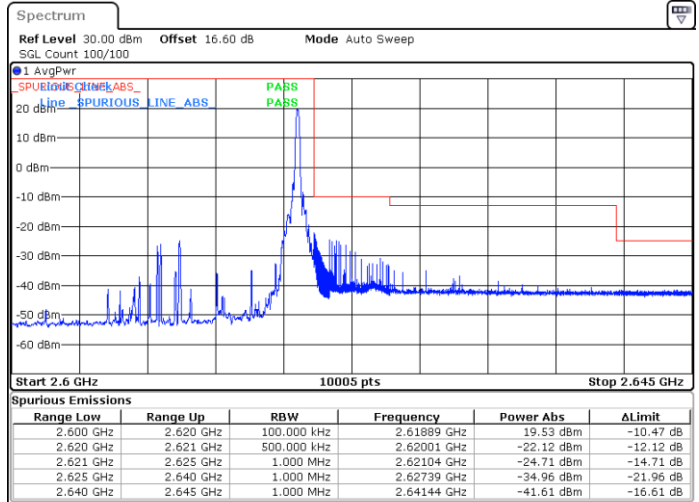


LTE Band 38 / 20MHz / 16QAM

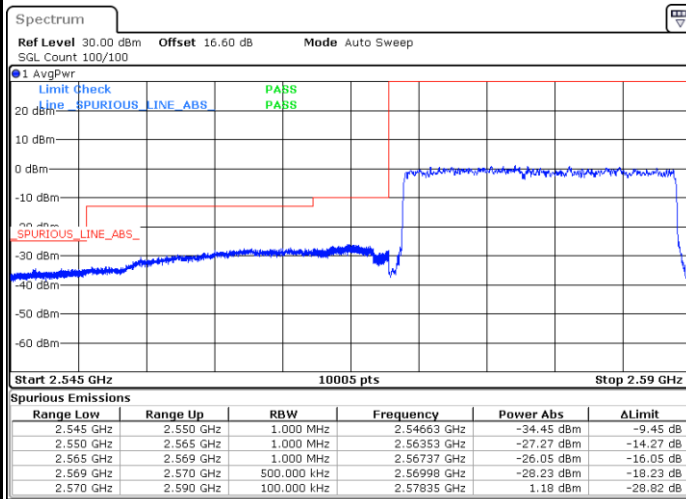
Lowest Band Edge / 1 RB



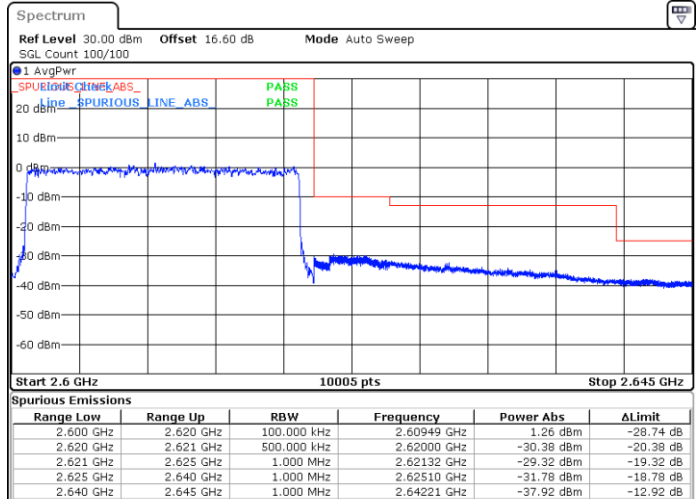
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



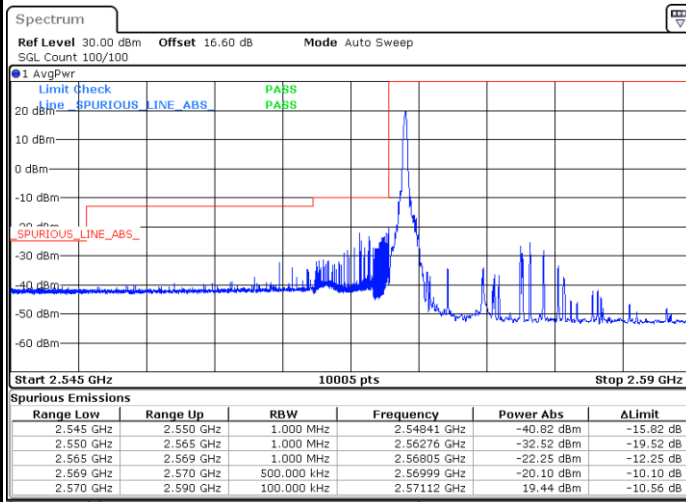
Highest Band Edge / Full RB



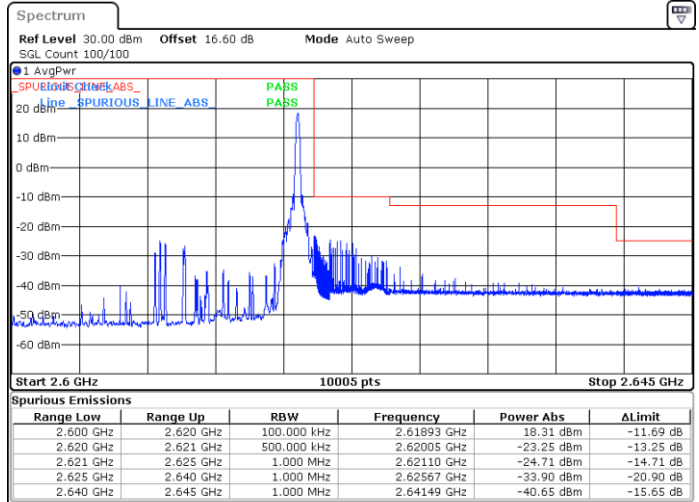


LTE Band 38 / 20MHz / 64QAM

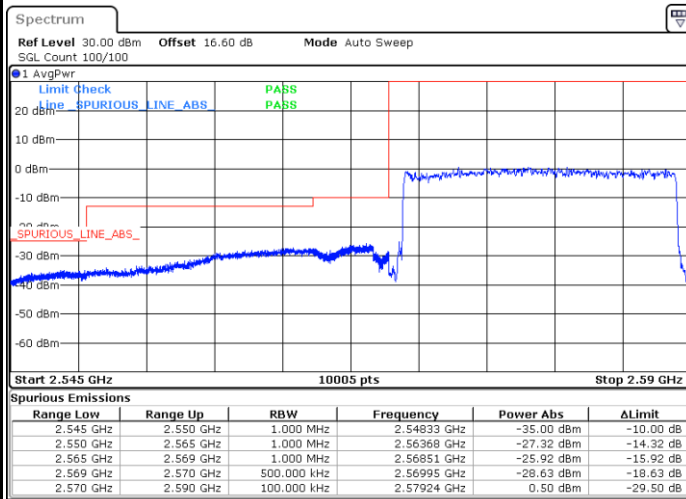
Lowest Band Edge / 1 RB



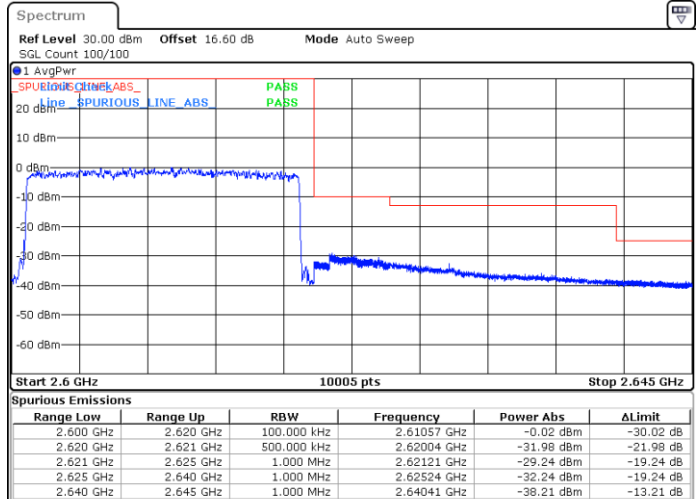
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

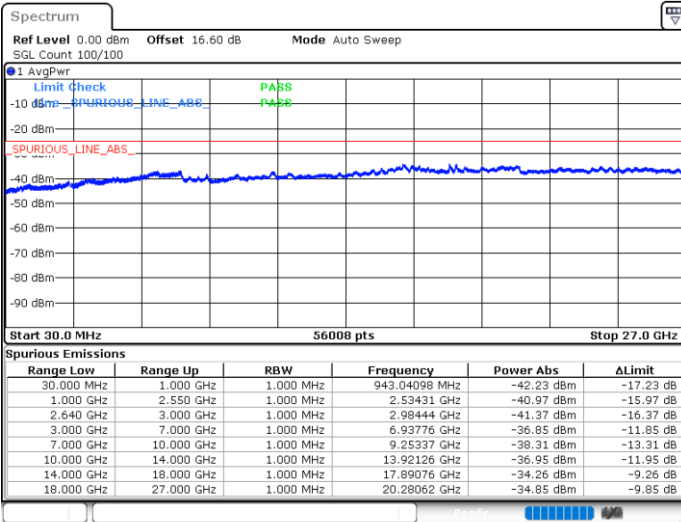




Conducted Spurious Emission

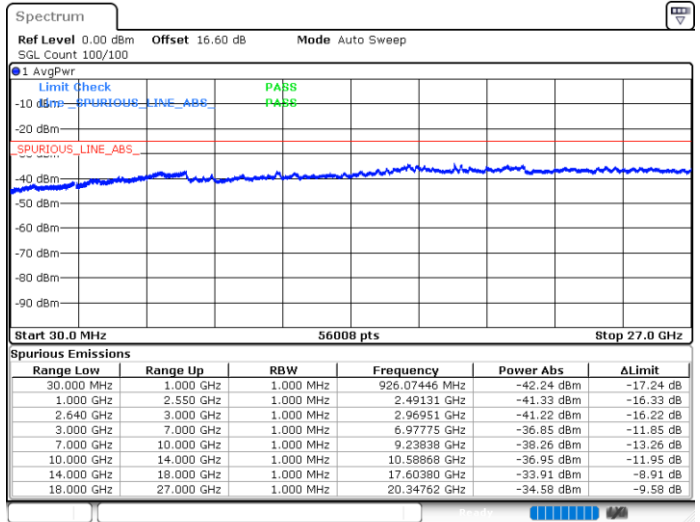
LTE Band 38 / 5MHz

Lowest Channel / QPSK



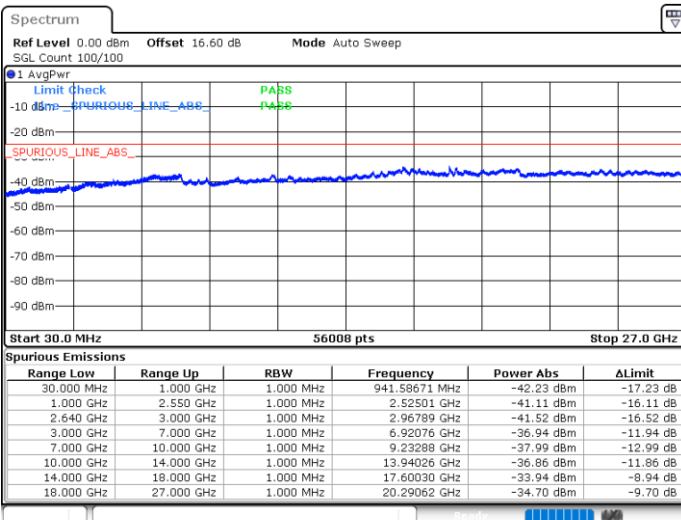
Date: 13.JUN.2020 17:59:29

Lowest Channel / 16QAM



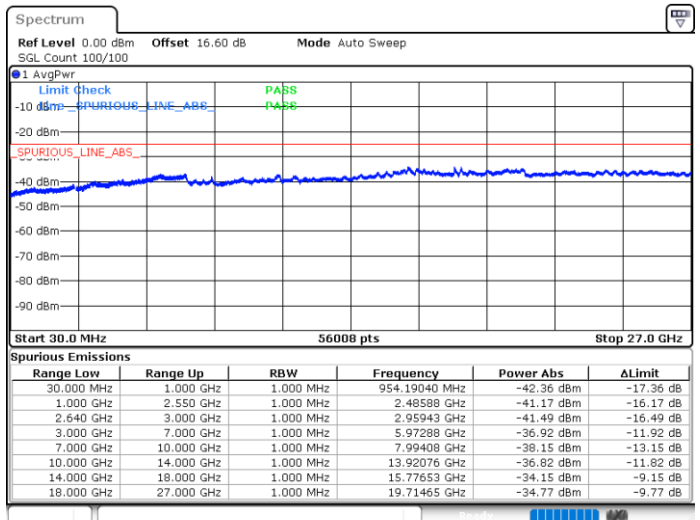
Date: 13.JUN.2020 18:00:49

Middle Channel / QPSK



Date: 13.JUN.2020 18:02:09

Middle Channel / 16QAM



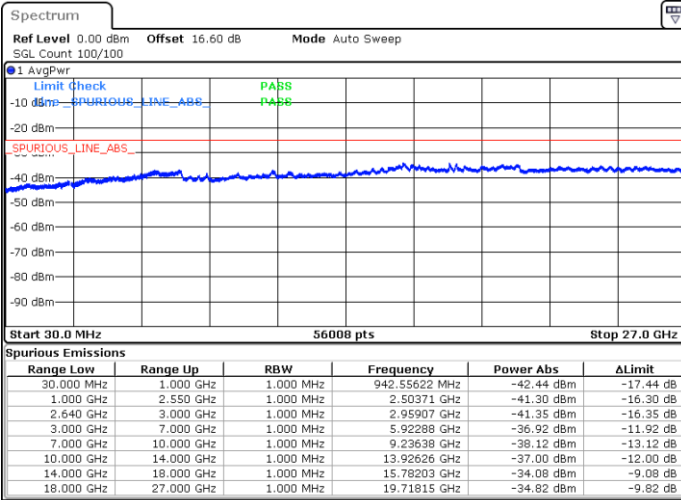
Date: 13.JUN.2020 18:03:29



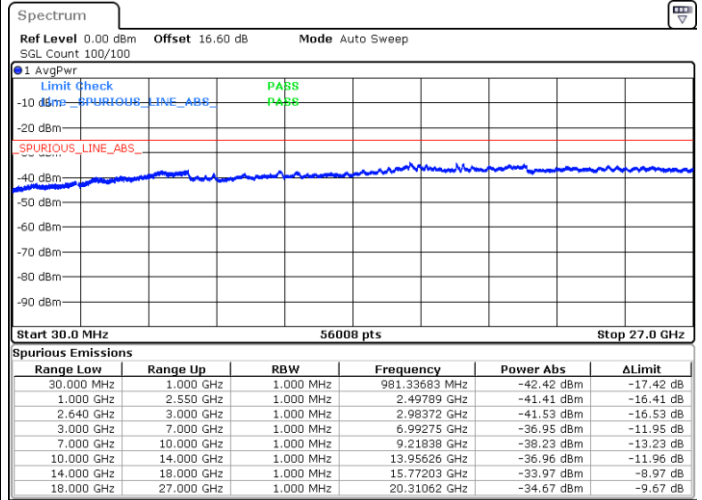
LTE Band 38 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 13.JUN.2020 18:04:49

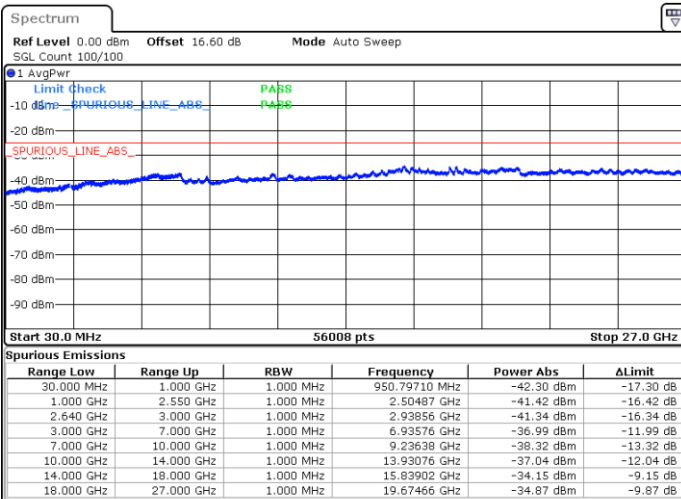


Date: 13.JUN.2020 18:06:10

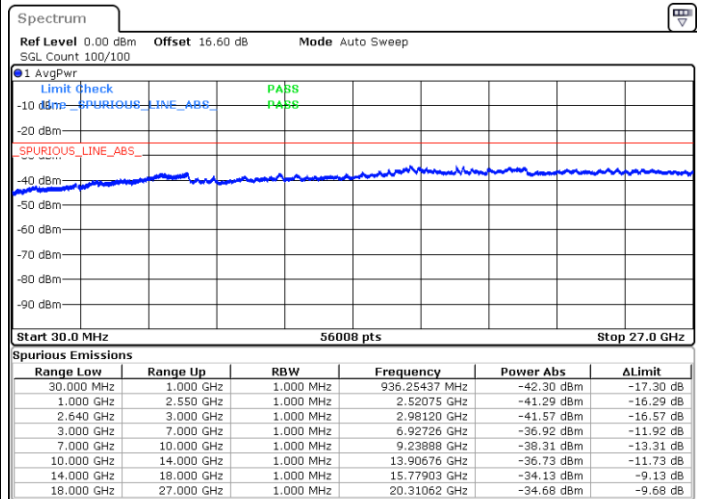
LTE Band 38 / 10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 13.JUN.2020 18:11:31



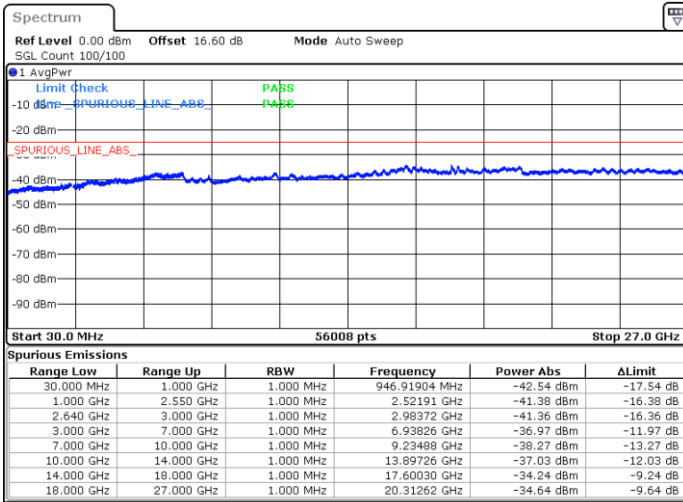
Date: 13.JUN.2020 18:12:51



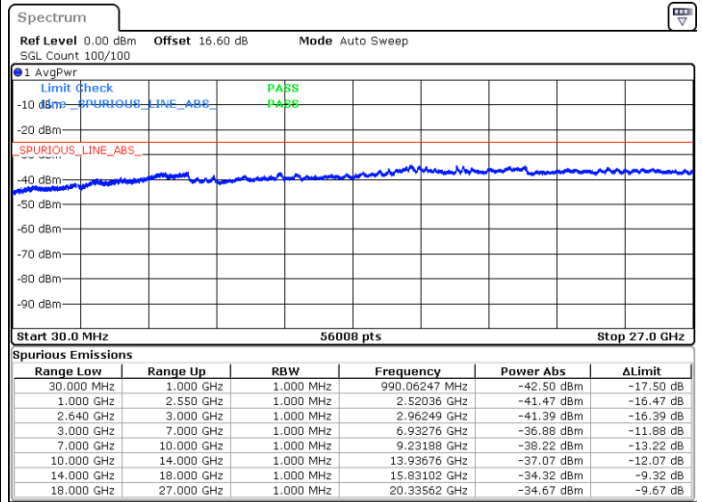
LTE Band 38 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM



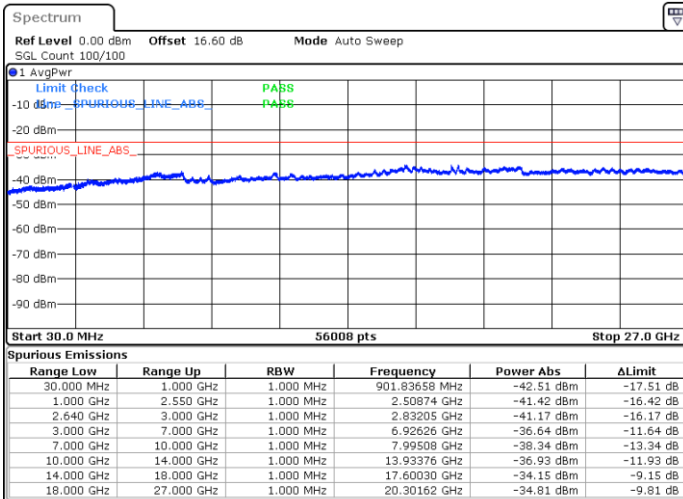
Date: 13.JUN.2020 18:14:11



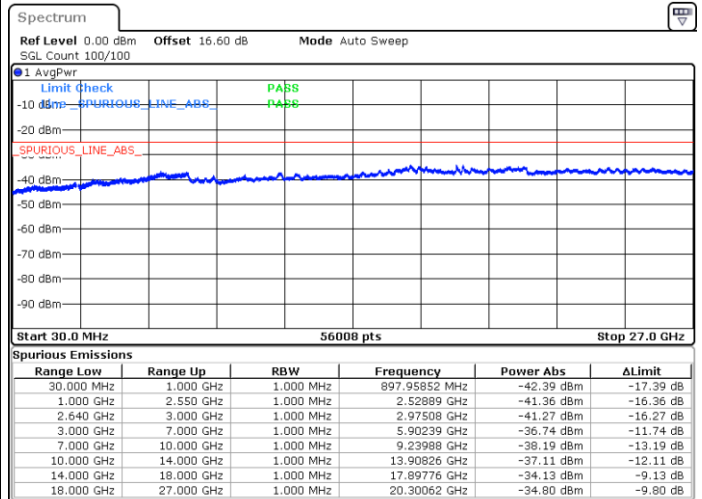
Date: 13.JUN.2020 18:15:31

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 13.JUN.2020 18:16:51



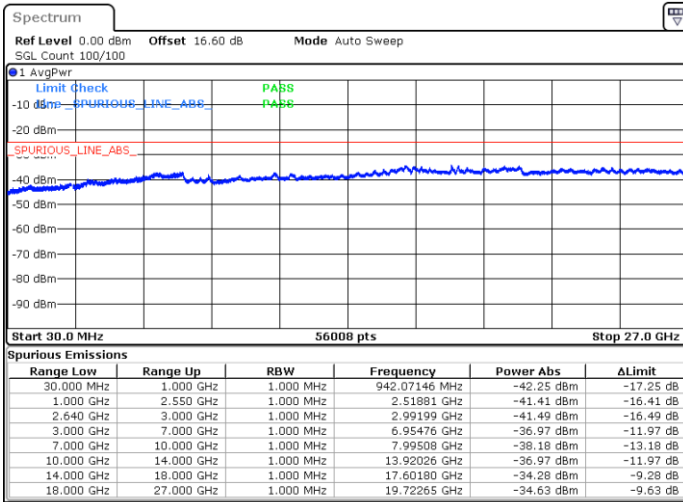
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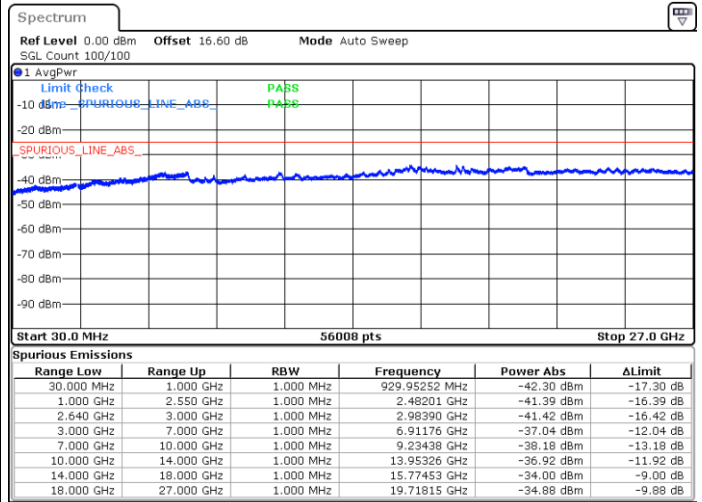
LTE Band 38 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



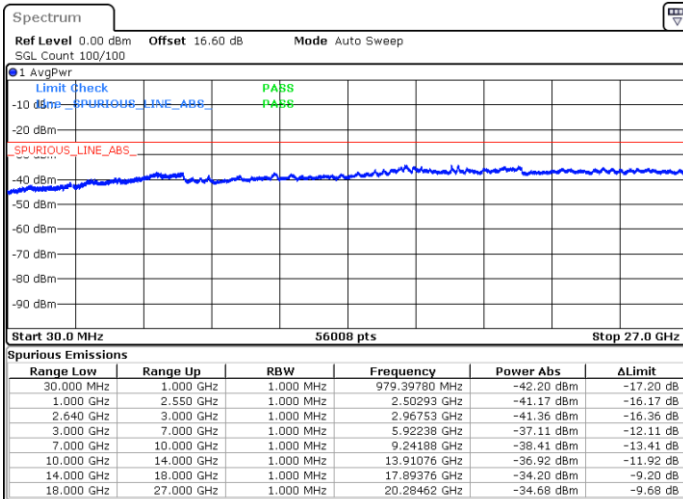
Date: 13.JUN.2020 18:19:32



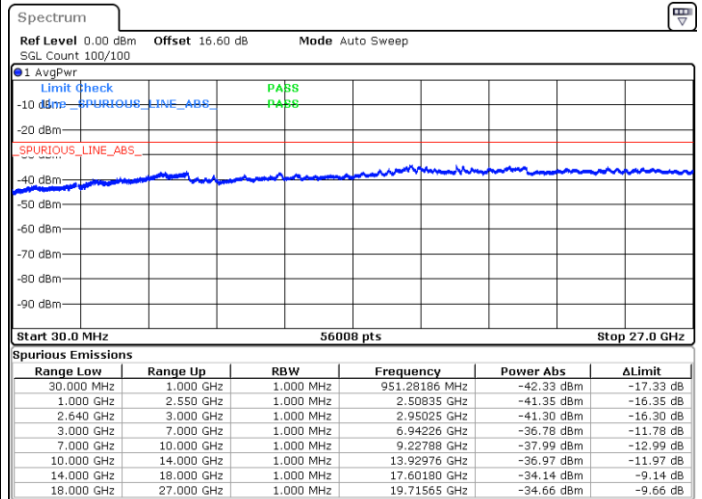
Date: 13.JUN.2020 18:20:52

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 13.JUN.2020 18:22:12



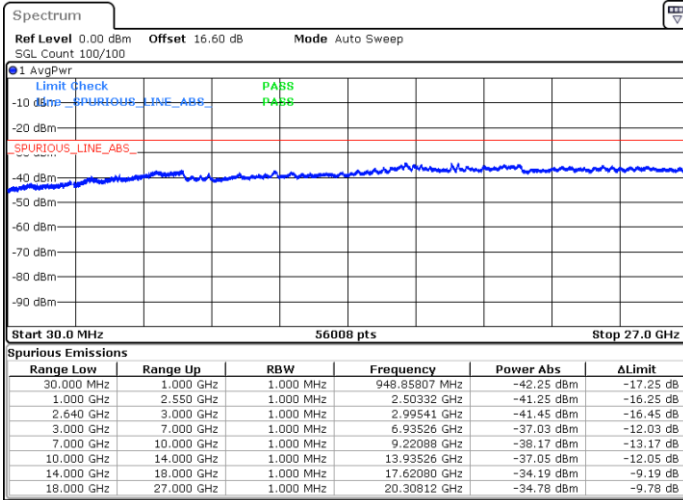
Date: 13.JUN.2020 18:23:32



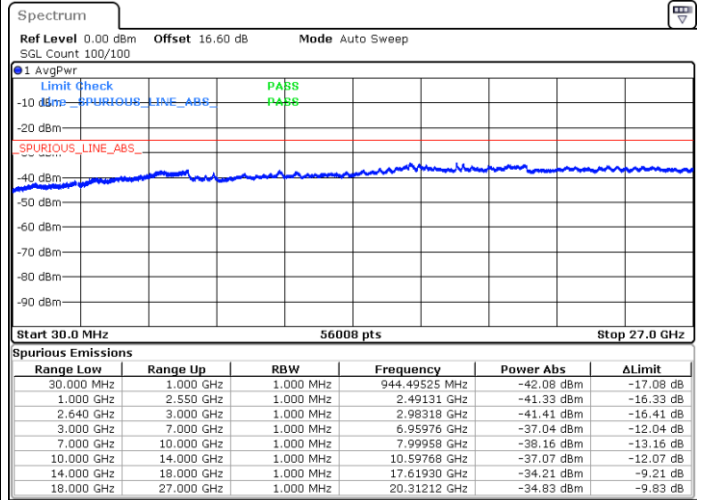
LTE Band 38 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 13.JUN.2020 18:24:52

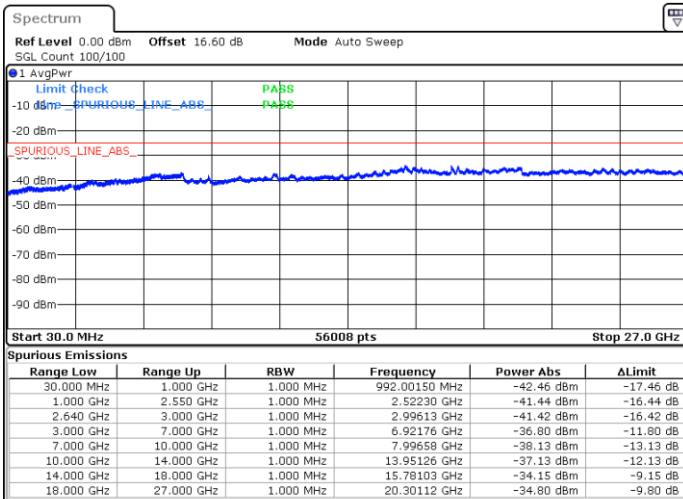


Date: 13.JUN.2020 18:26:13

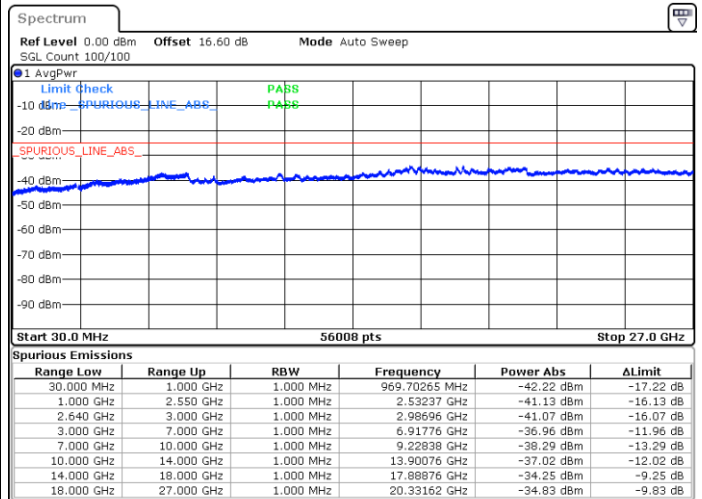
LTE Band 38 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 13.JUN.2020 18:31:34



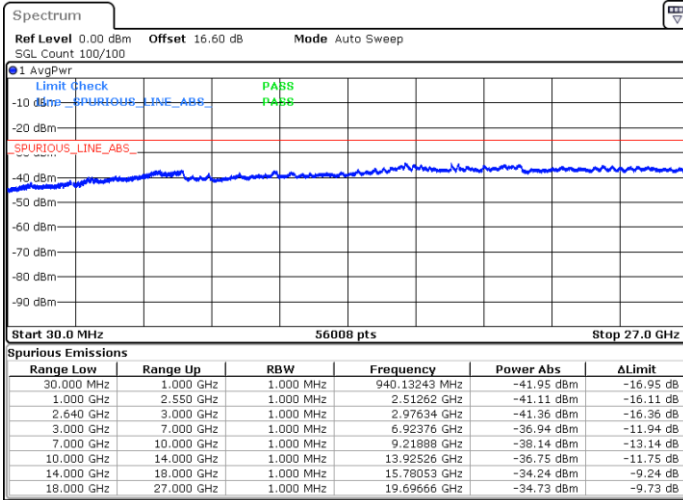
Date: 13.JUN.2020 18:32:54



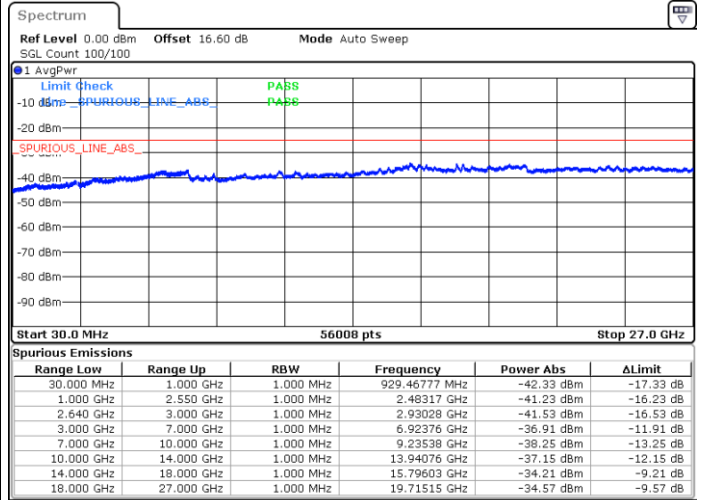
LTE Band 38 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM



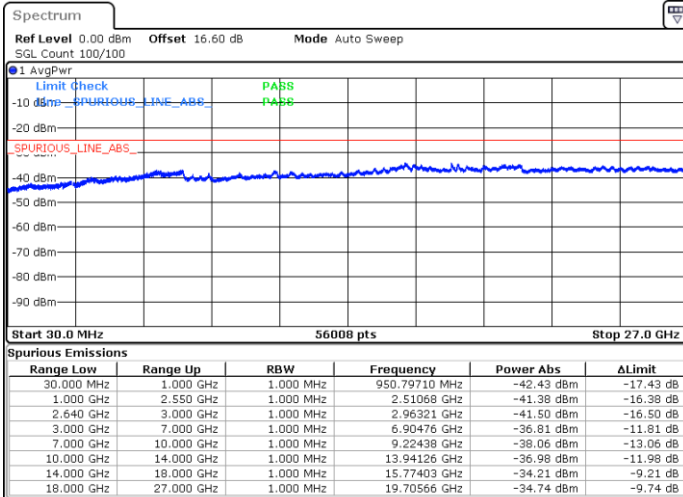
Date: 13.JUN.2020 18:34:14



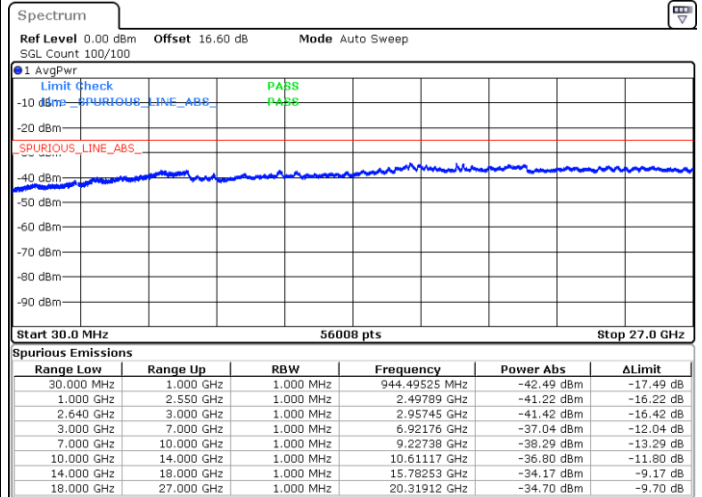
Date: 13.JUN.2020 18:35:34

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 13.JUN.2020 18:36:54



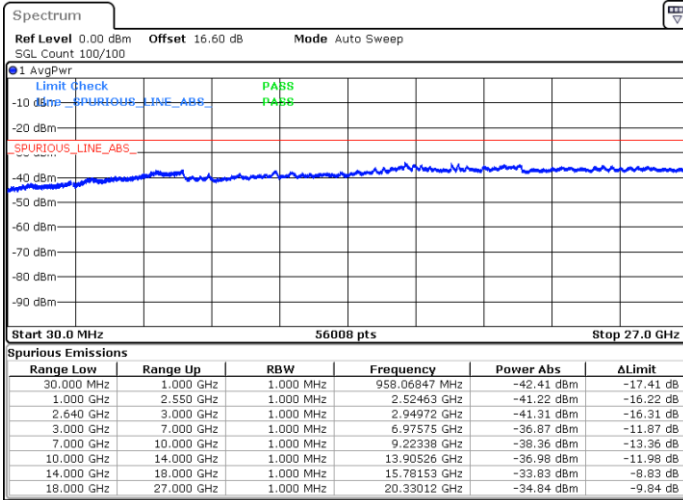
Date: 13.JUN.2020 18:38:14



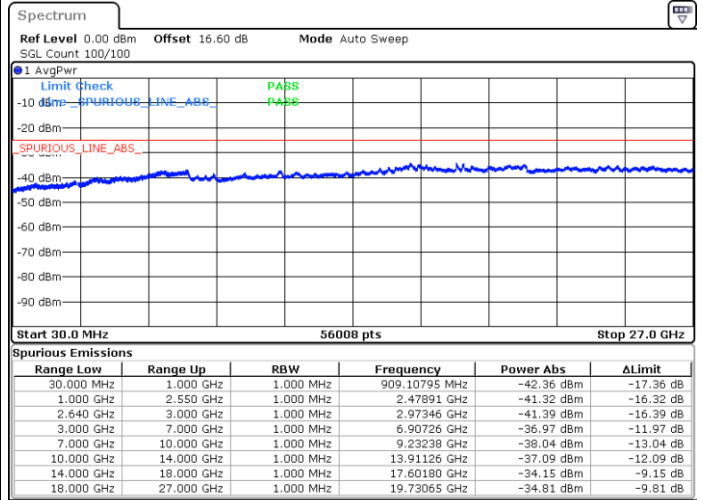
LTE Band 38 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

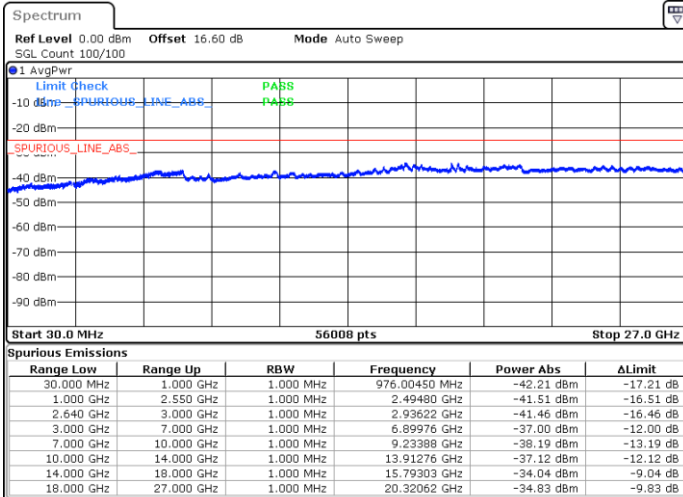


Date: 13.JUN.2020 17:55:29



Date: 13.JUN.2020 17:56:48

Highest Channel / 64QAM



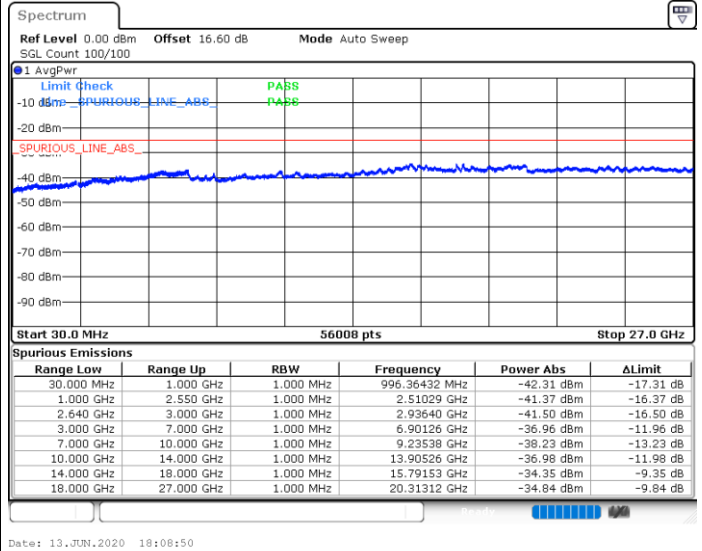
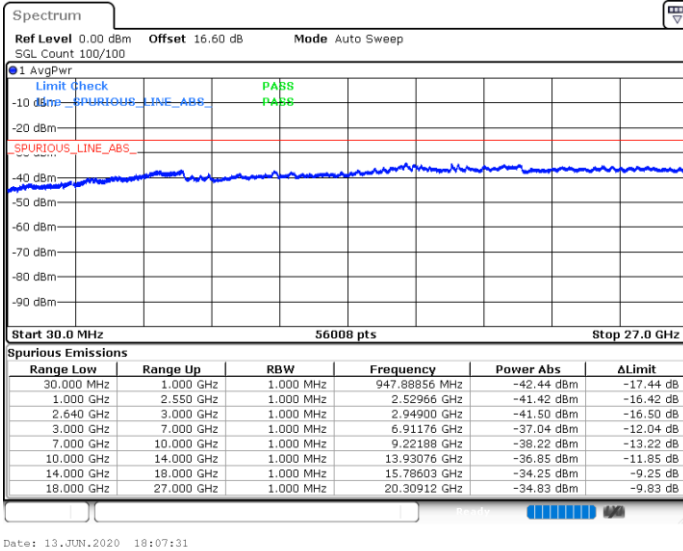
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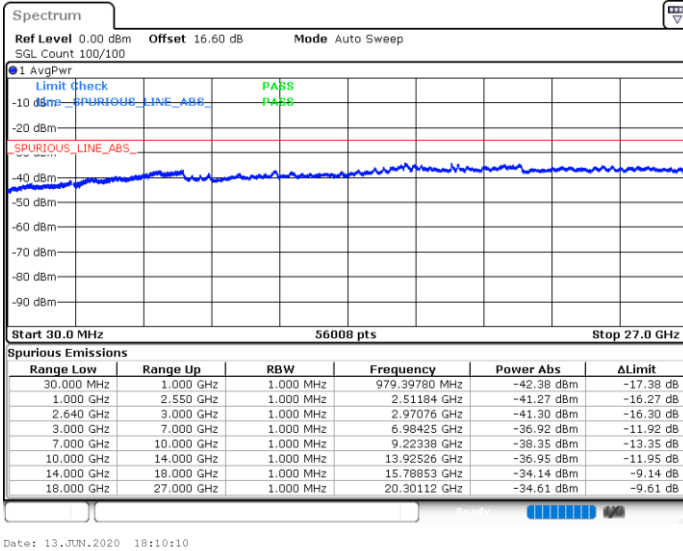
LTE Band 38 / 10MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM



Highest Channel / 64QAM

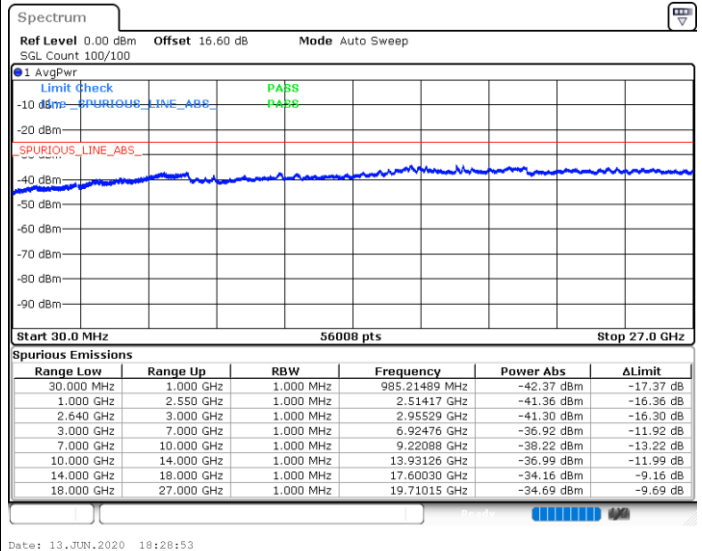
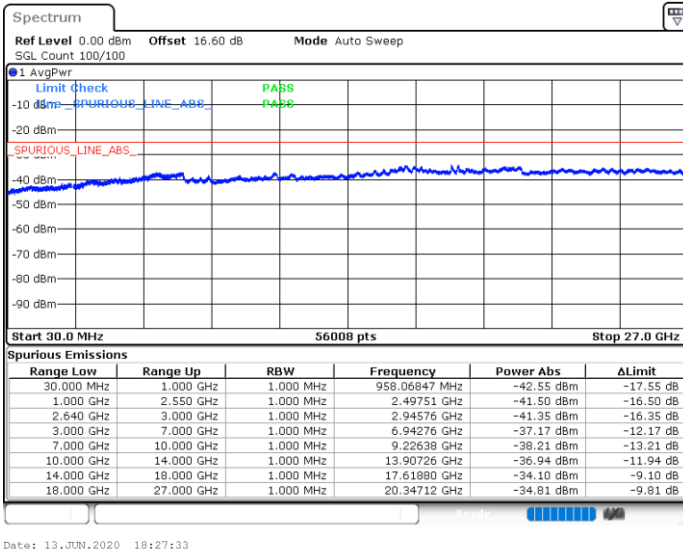




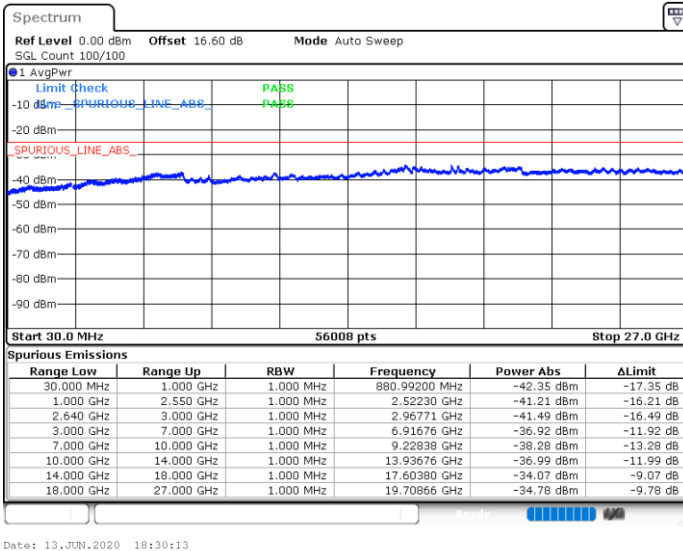
LTE Band 38 / 15MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM



Highest Channel / 64QAM

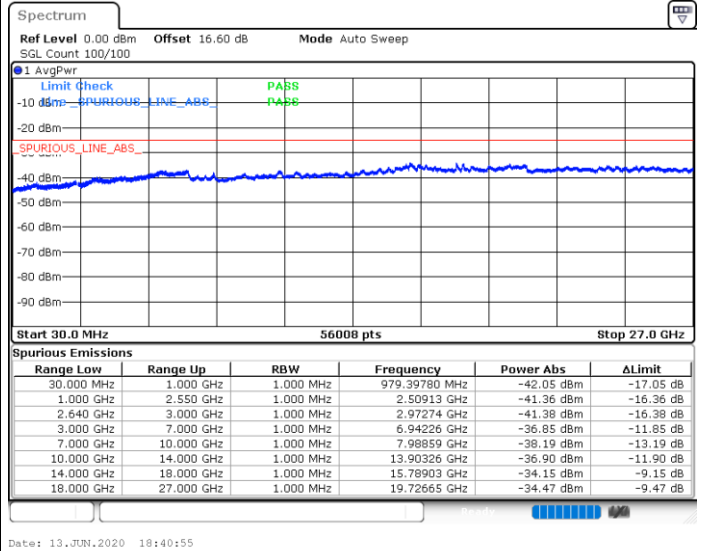
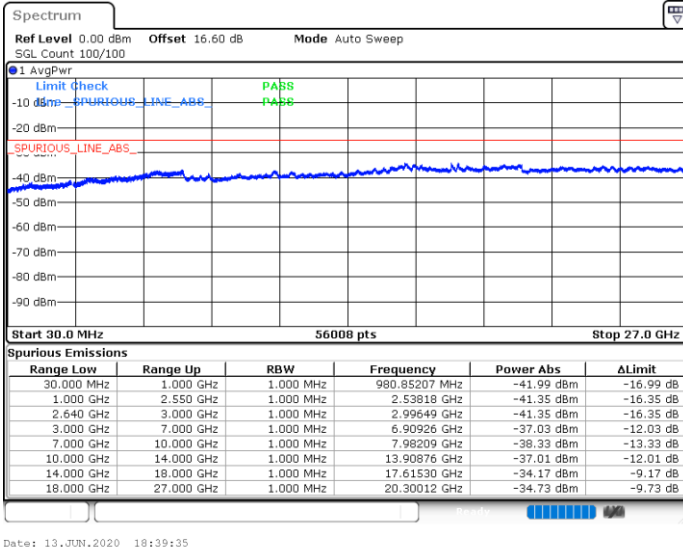




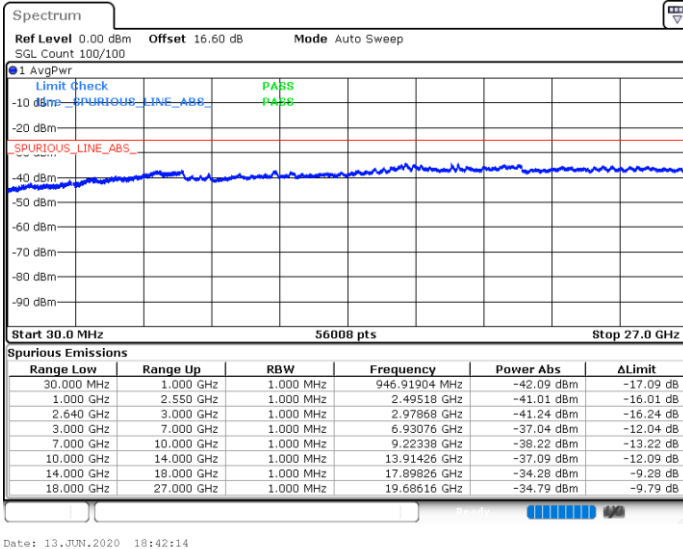
LTE Band 38 / 20MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM



Highest Channel / 64QAM



Frequency Stability

Test Conditions		LTE Band 38 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0020	PASS
40	Normal Voltage	0.0012	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0008	
-10	Normal Voltage	0.0020	
-20	Normal Voltage	0.0000	
-30	Normal Voltage	0.0009	
20	Maximum Voltage	0.0018	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0020	

Note:

1. Normal Voltage =4.0 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.45 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



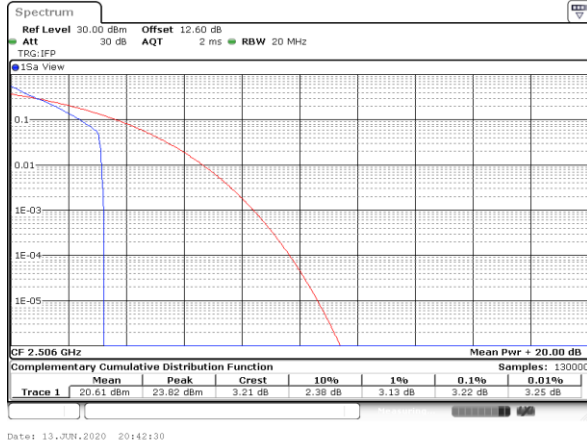
LTE Band 41

Peak-to-Average Ratio

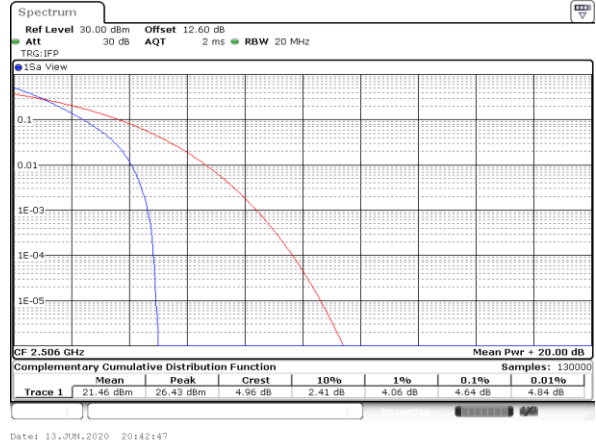
Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.22	4.64	4.93	5.65	PASS
Middle CH	3.62	4.99	5.45	6.00	
Highest CH	3.59	4.99	5.48	5.94	
Mode	LTE Band 41 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.78	6.23	-	-	PASS
Middle CH	6.75	6.41	-	-	
Highest CH	7.54	6.49	-	-	

LTE Band 41 / 20MHz / QPSK

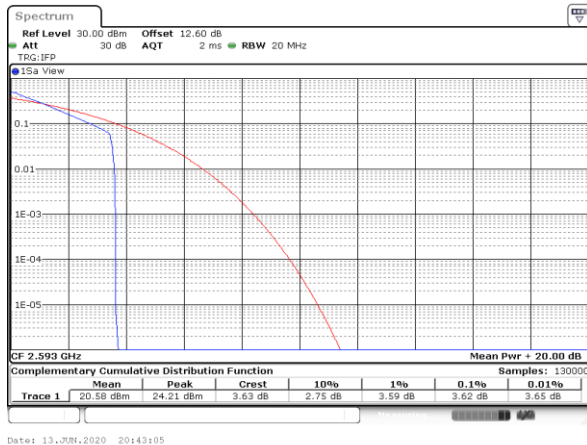
Lowest Channel / 1RB



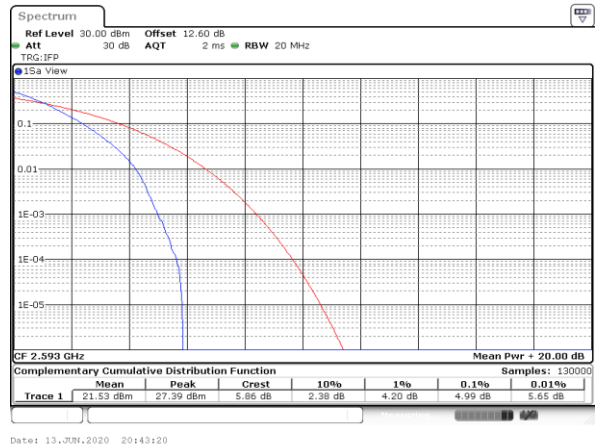
Lowest Channel / Full RB



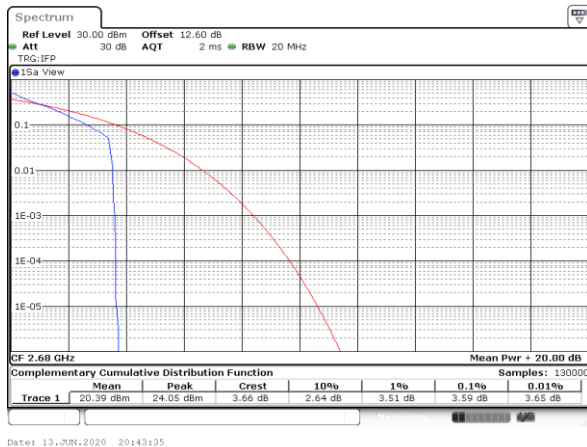
Middle Channel / 1RB



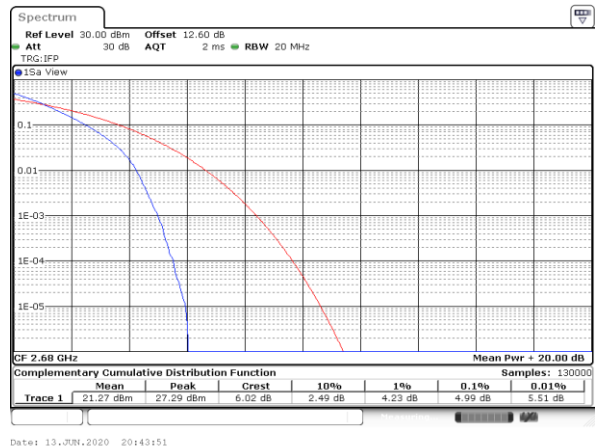
Middle Channel / Full RB



Highest Channel / 1RB



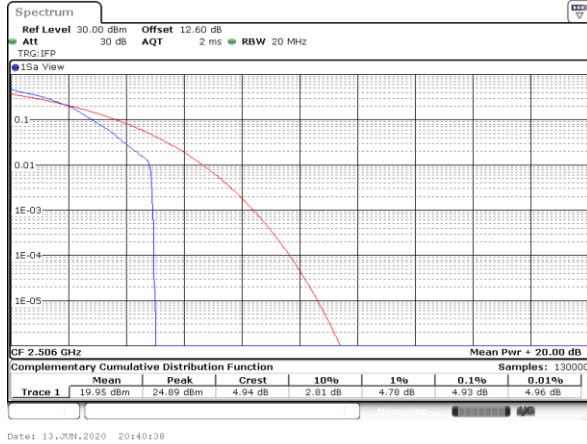
Highest Channel / Full RB



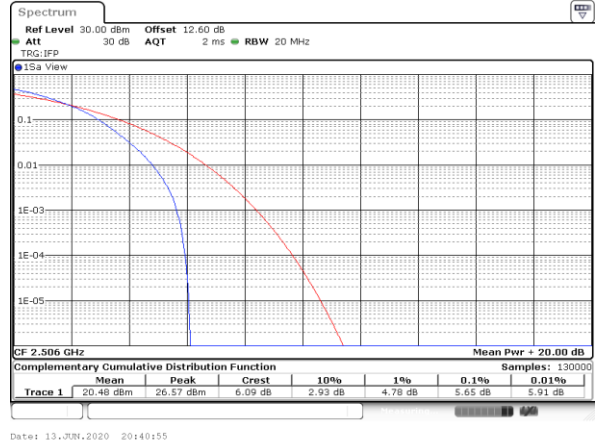


LTE Band 41 / 20MHz / 16QAM

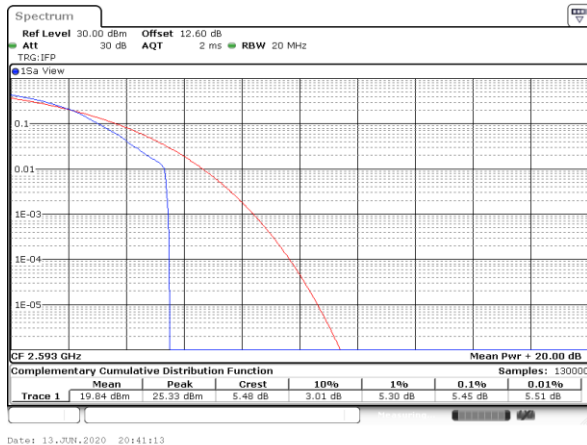
Lowest Channel / 1RB



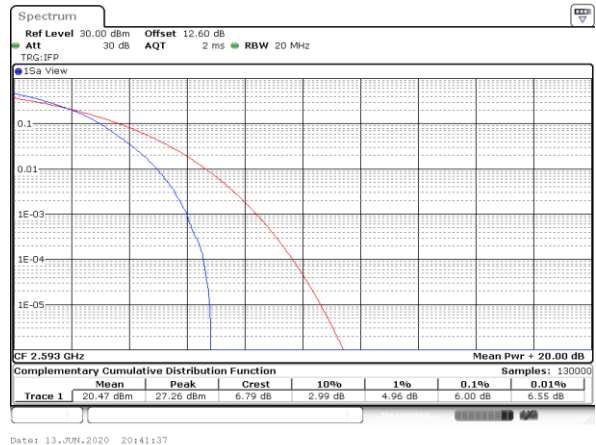
Lowest Channel / Full RB



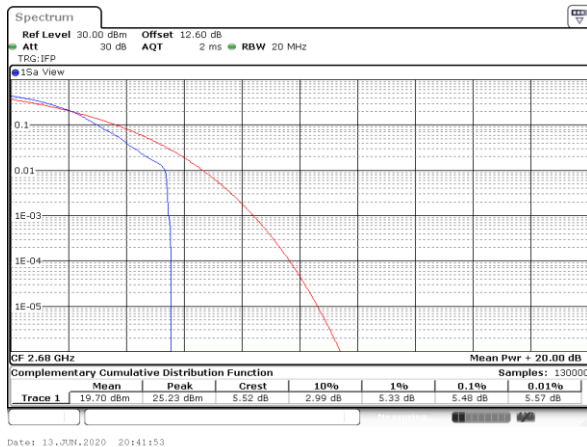
Middle Channel / 1RB



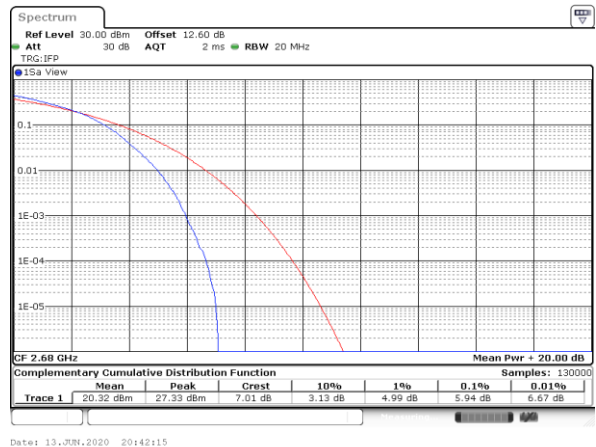
Middle Channel / Full RB



Highest Channel / 1RB



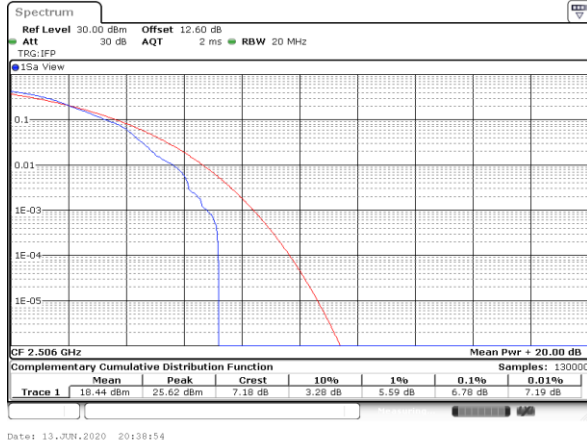
Highest Channel / Full RB



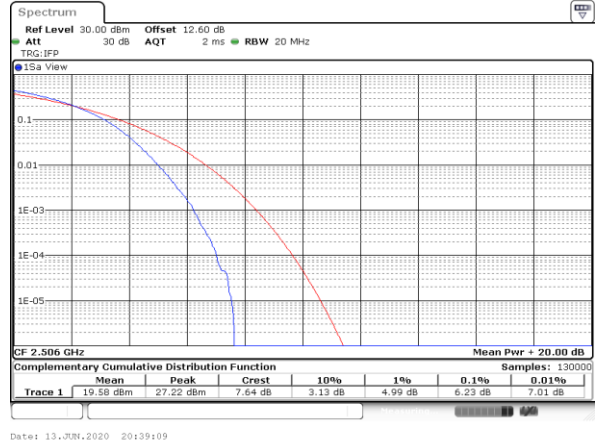


LTE Band 41 / 20MHz / 64QAM

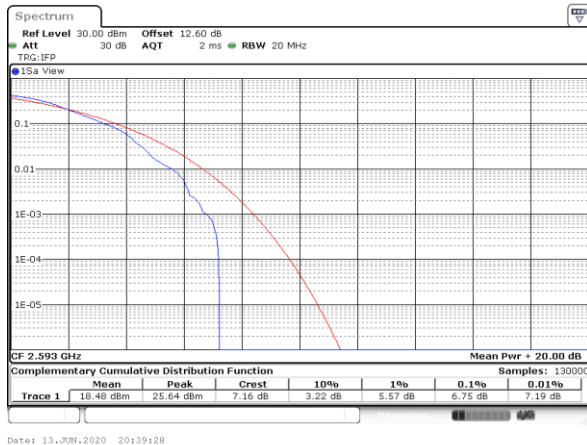
Lowest Channel / 1RB



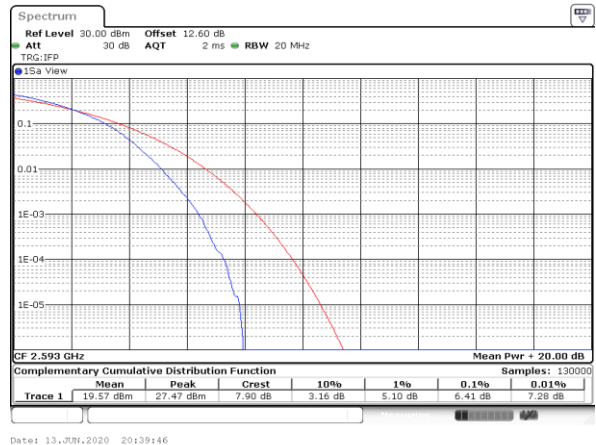
Lowest Channel / Full RB



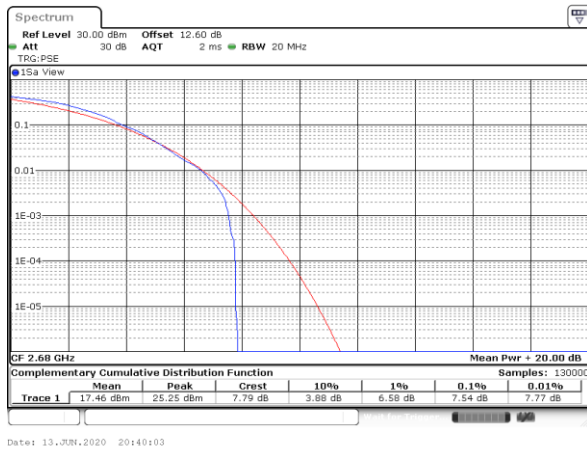
Middle Channel / 1RB



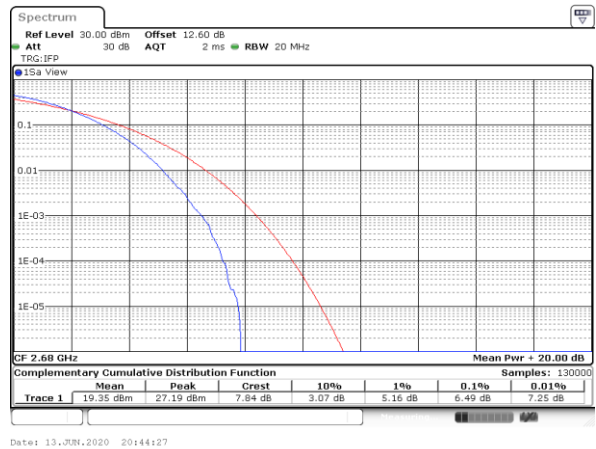
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



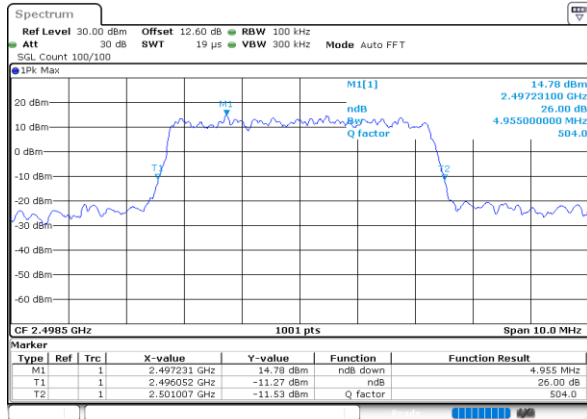
**26dB Bandwidth**

Mode	LTE Band 41 : 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	-	-	-	-	4.96	4.77	9.67	9.83	14.63	14.15	18.90	19.14
Middle CH	-	-	-	-	4.79	4.90	9.67	9.69	14.33	14.15	18.94	18.70
Highest CH	-	-	-	-	4.94	4.83	9.69	9.65	14.12	14.09	19.02	18.78
Mode	LTE Band 41 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.81	-	9.71	-	14.75	-	18.62	-
Middle CH	-	-	-	-	4.89	-	9.93	-	14.09	-	18.58	-
Highest CH	-	-	-	-	4.87	-	9.73	-	14.45	-	18.82	-



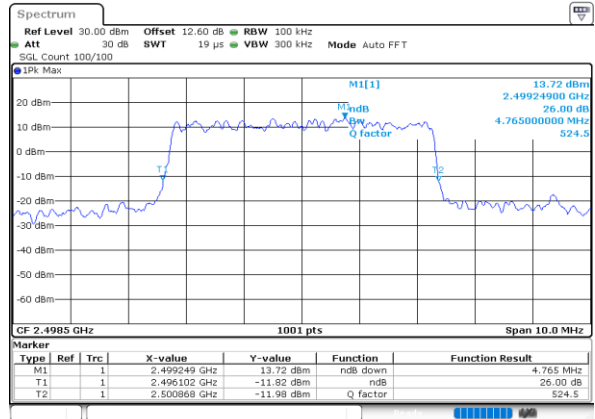
LTE Band 41

Lowest Channel / 5MHz / QPSK



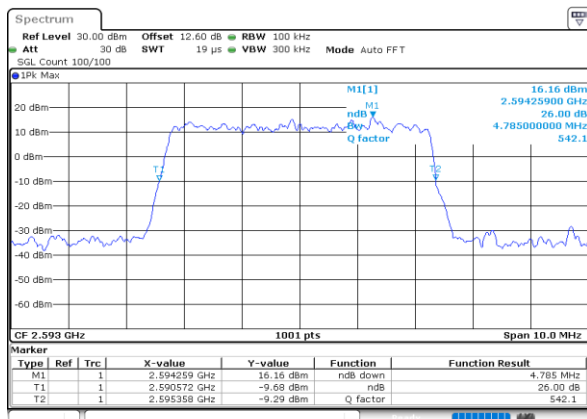
Date: 13.JUN.2020 20:22:50

Lowest Channel / 5MHz / 16QAM



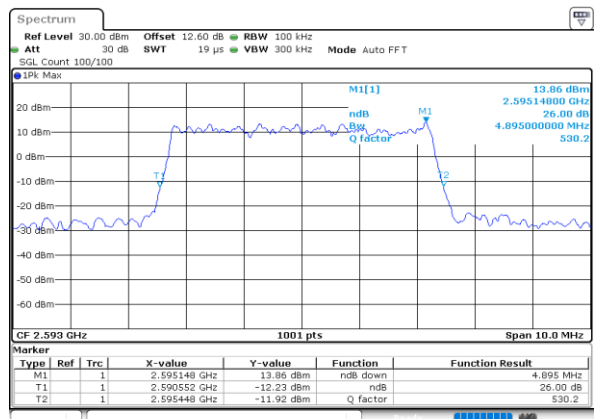
Date: 13.JUN.2020 20:23:02

Middle Channel / 5MHz / QPSK



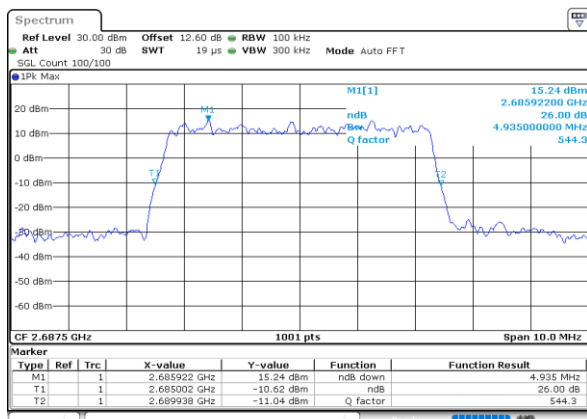
Date: 13.JUN.2020 20:23:36

Middle Channel / 5MHz / 16QAM



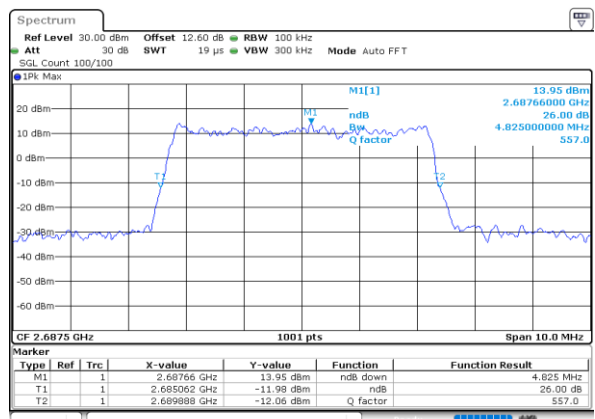
Date: 13.JUN.2020 20:23:47

Highest Channel / 5MHz / QPSK



Date: 13.JUN.2020 20:24:22

Highest Channel / 5MHz / 16QAM

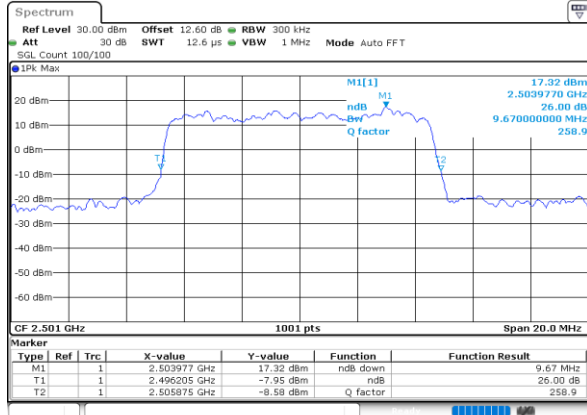


Date: 13.JUN.2020 20:24:34

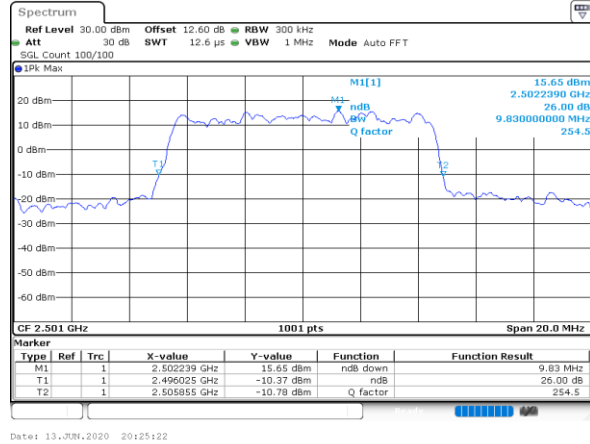


LTE Band 41

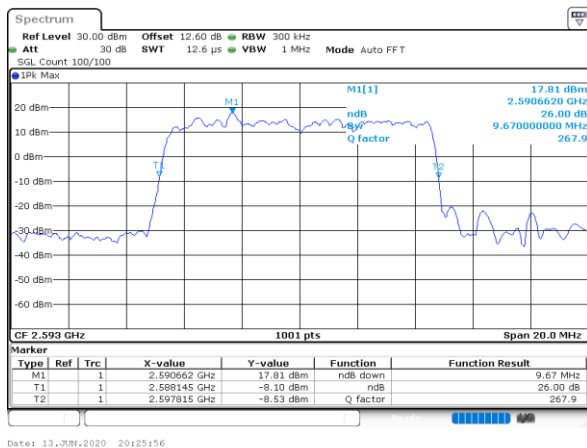
Lowest Channel / 10MHz / QPSK



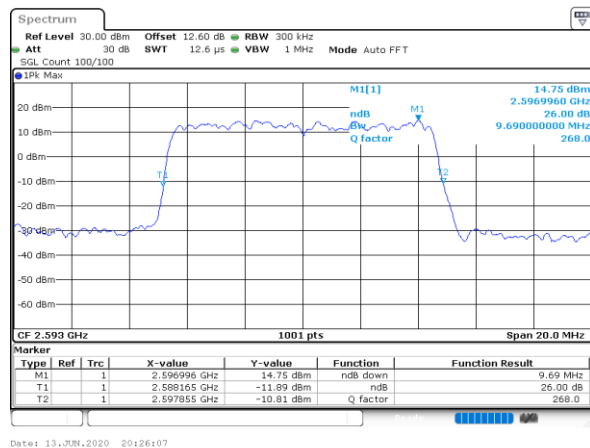
Lowest Channel / 10MHz / 16QAM



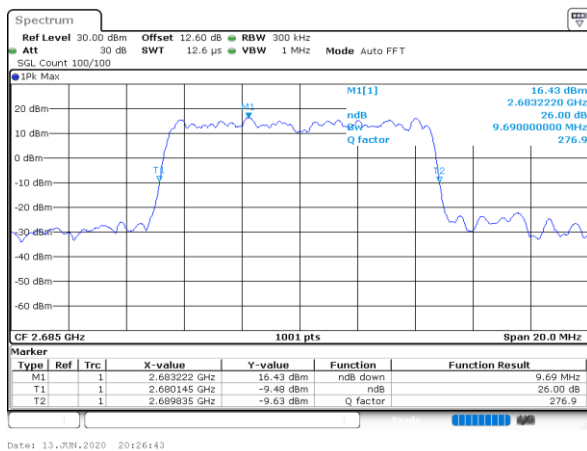
Middle Channel / 10MHz / QPSK



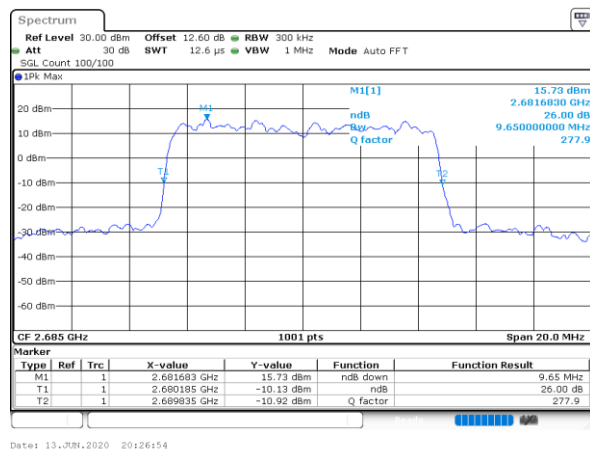
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



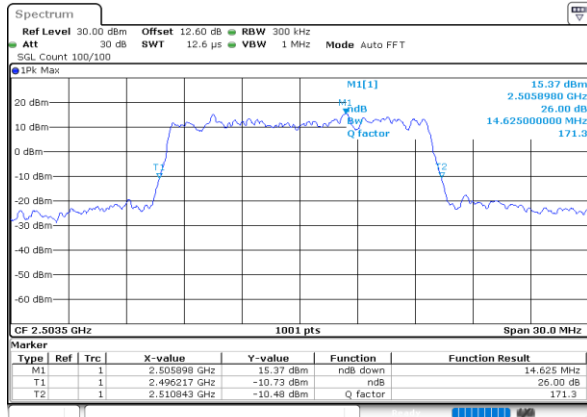
Highest Channel / 10MHz / 16QAM



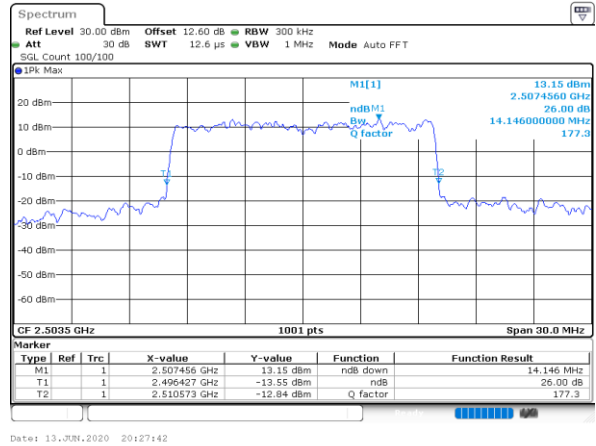


LTE Band 41

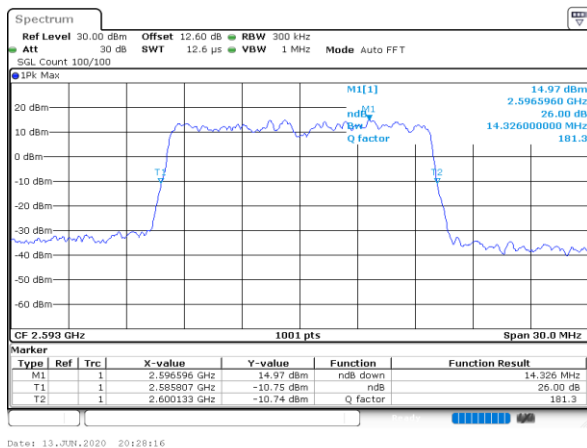
Lowest Channel / 15MHz / QPSK



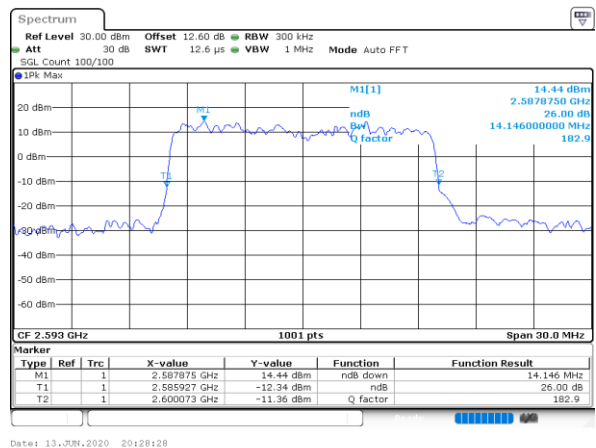
Lowest Channel / 15MHz / 16QAM



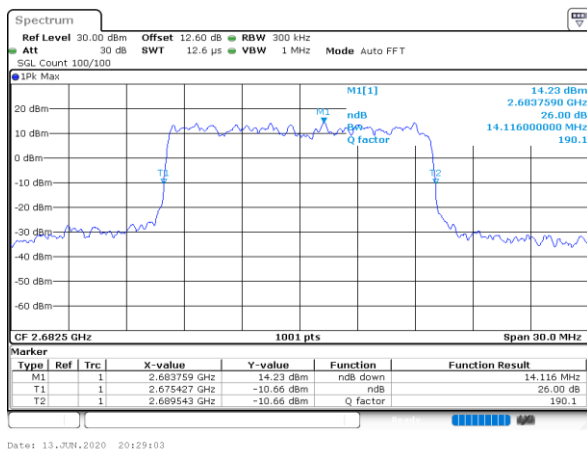
Middle Channel / 15MHz / QPSK



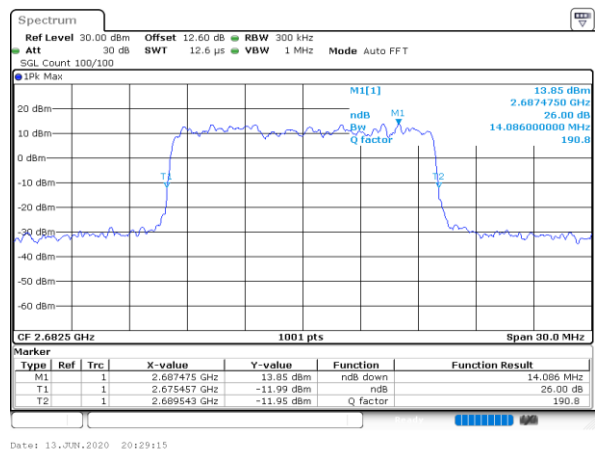
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



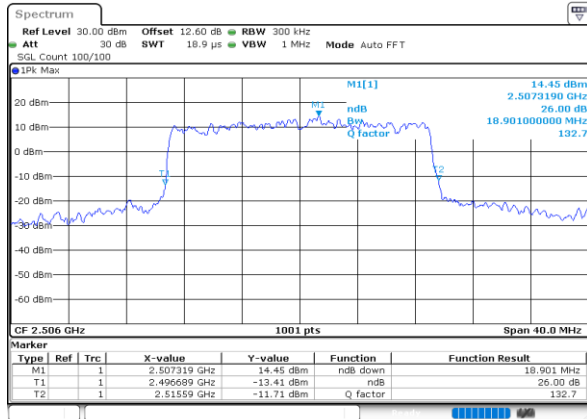
Highest Channel / 15MHz / 16QAM



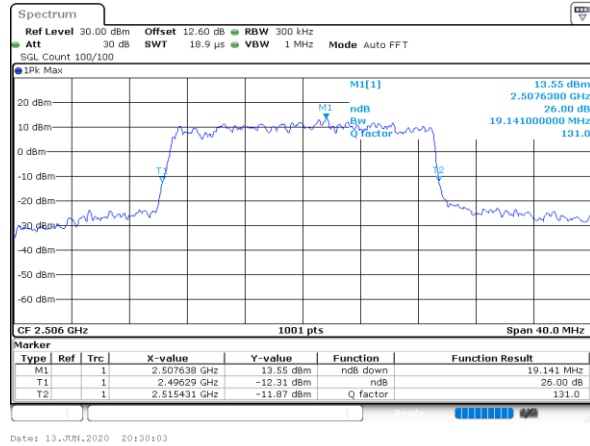


LTE Band 41

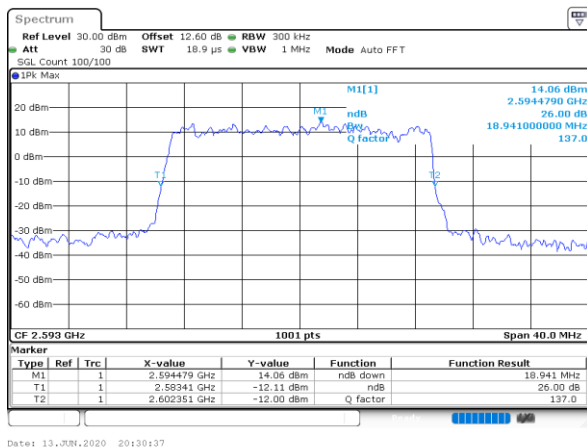
Lowest Channel / 20MHz / QPSK



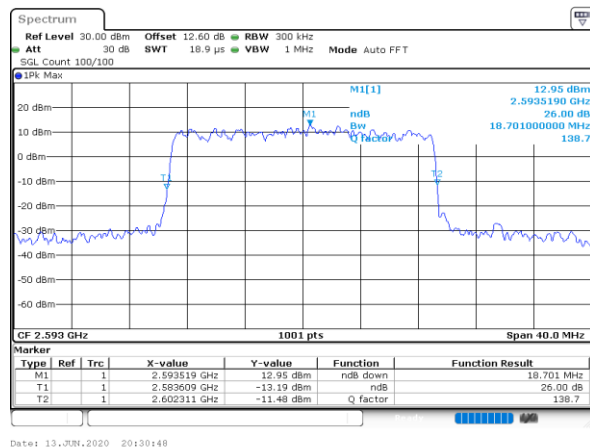
Lowest Channel / 20MHz / 16QAM



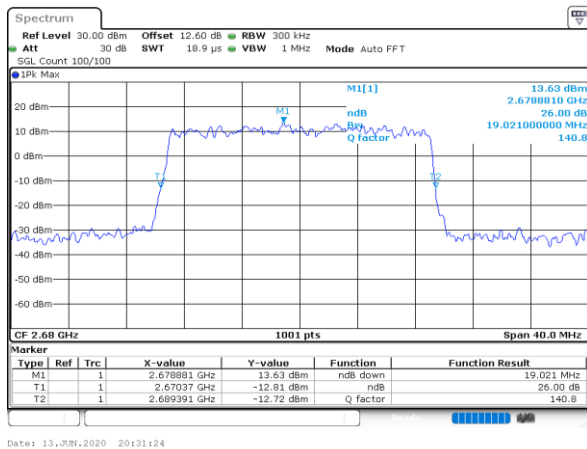
Middle Channel / 20MHz / QPSK



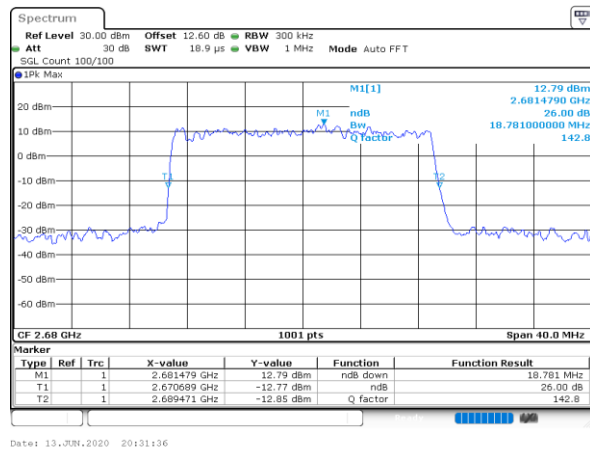
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK

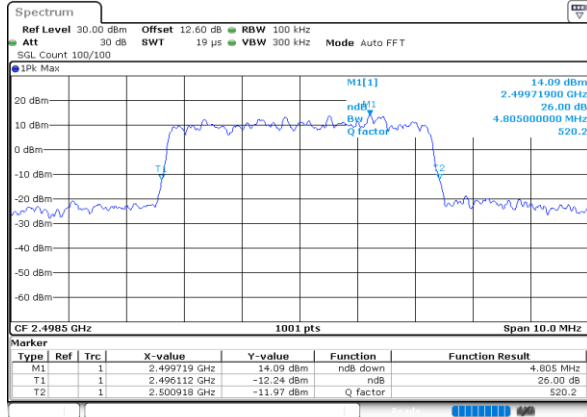


Highest Channel / 20MHz / 16QAM

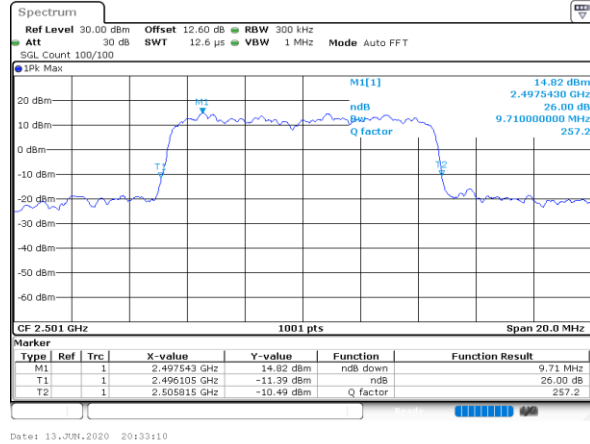


LTE Band 41

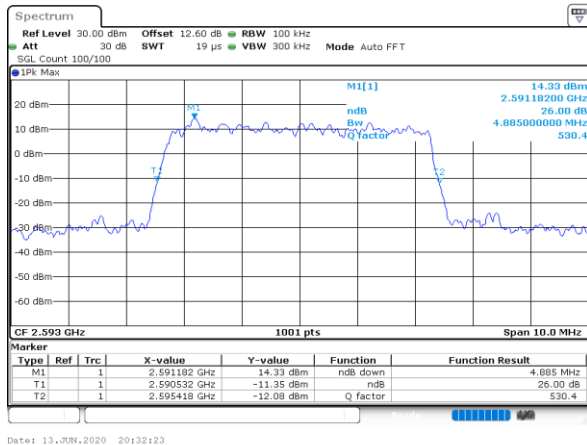
Lowest Channel / 5MHz / 64QAM



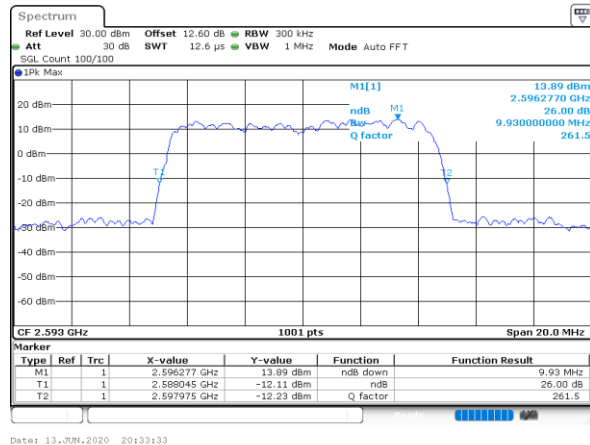
Lowest Channel / 10MHz / 64QAM



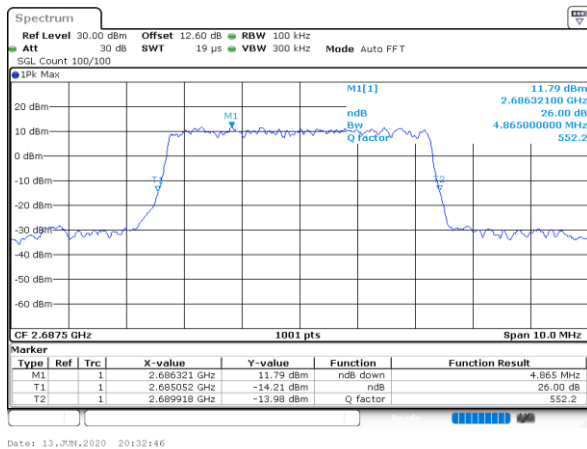
Middle Channel / 5MHz / 64QAM



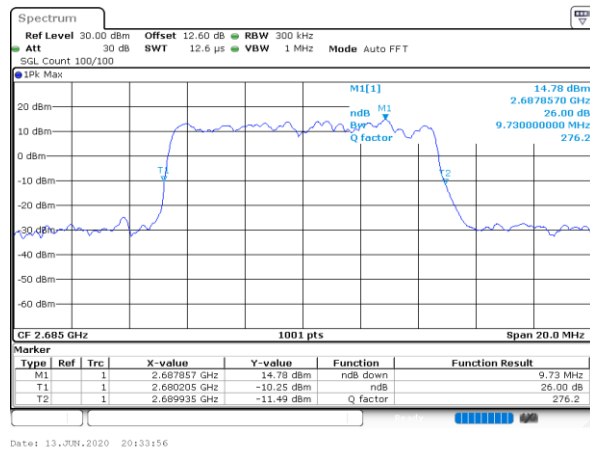
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



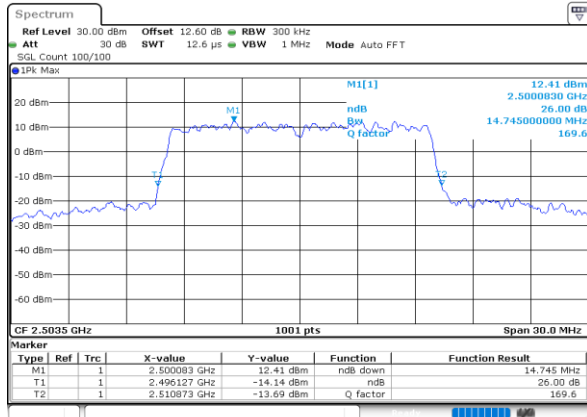
Highest Channel / 10MHz / 64QAM



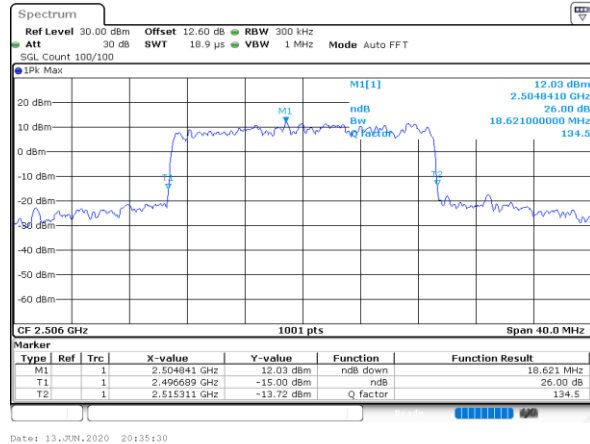


LTE Band 41

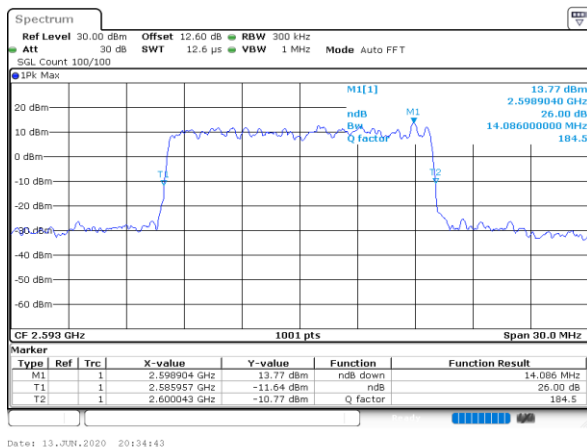
Lowest Channel / 15MHz / 64QAM



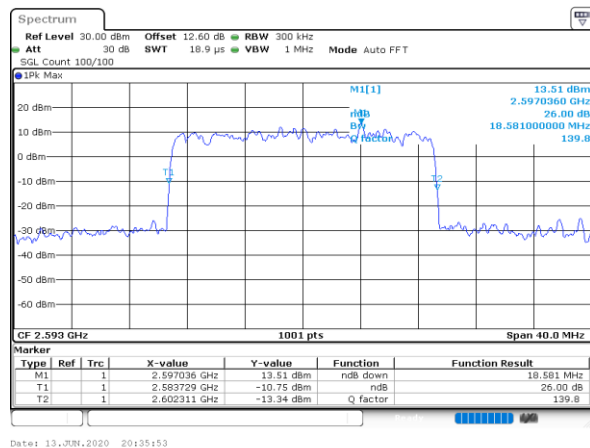
Lowest Channel / 20MHz / 64QAM



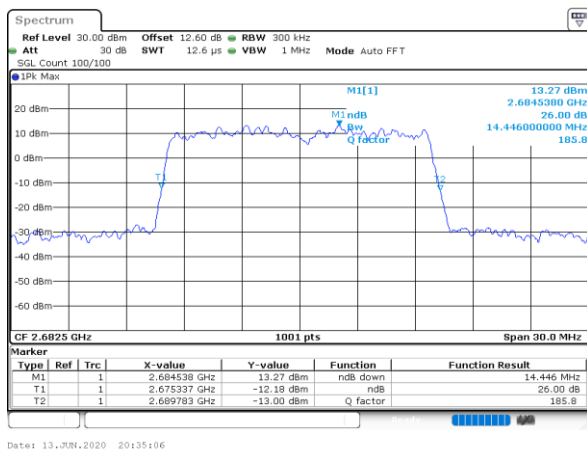
Middle Channel / 15MHz / 64QAM



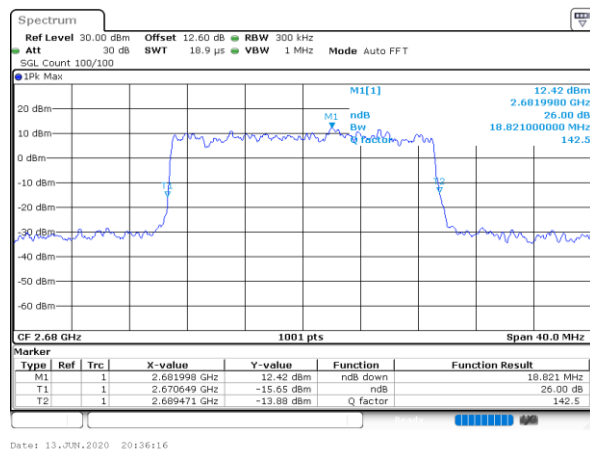
Middle Channel / 20MHz / 64QAM



Highest Channel / 15MHz / 64QAM



Highest Channel / 20MHz / 64QAM



**Occupied Bandwidth**

Mode	LTE Band 41 : 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	9.03	9.05	13.43	13.46	17.86	17.82
Middle CH	-	-	-	-	4.48	4.50	9.03	9.03	13.37	13.40	17.86	17.86
Highest CH	-	-	-	-	4.51	4.46	8.99	8.97	13.43	13.46	17.86	17.82
Mode	LTE Band 41 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.49	-	9.03	-	13.46	-	17.86	-
Middle CH	-	-	-	-	4.51	-	9.01	-	13.43	-	17.94	-
Highest CH	-	-	-	-	4.50	-	8.99	-	13.49	-	17.78	-