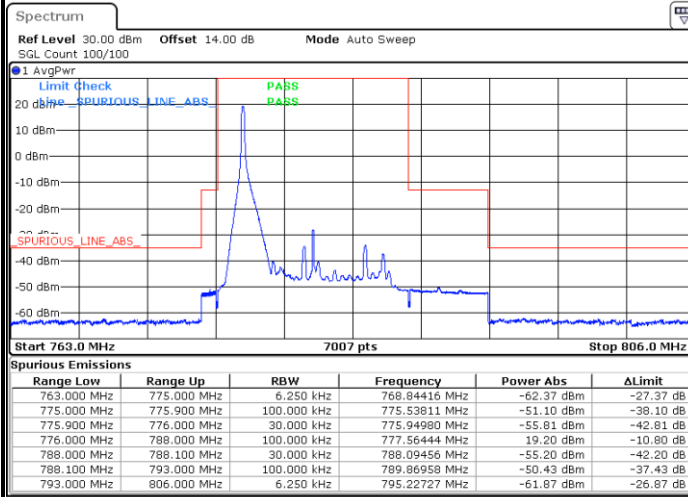




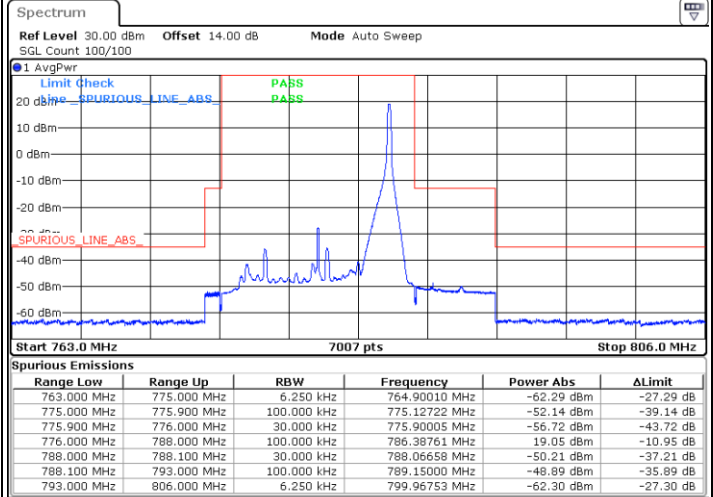
LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



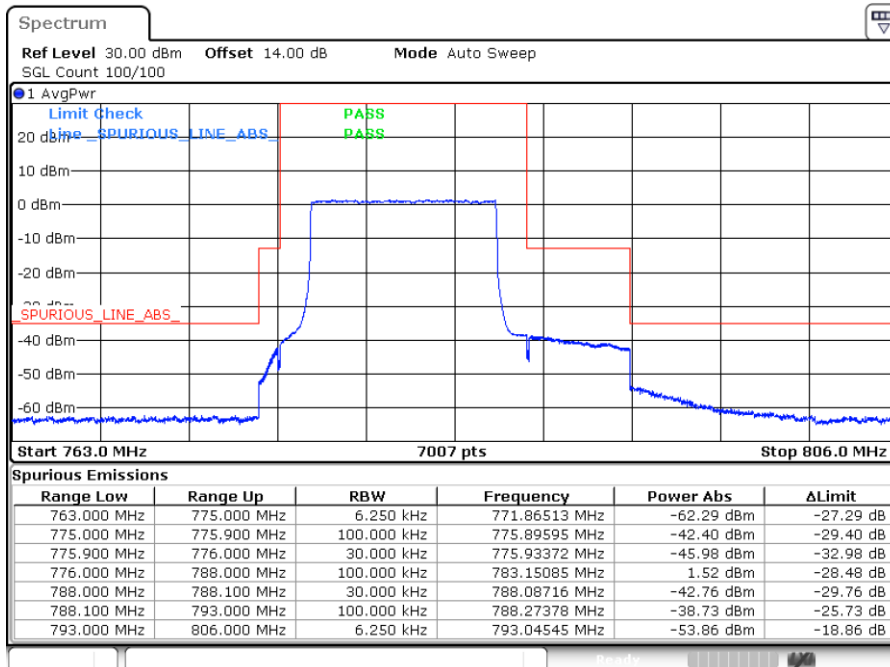
Date: 19.DEC.2020 12:15:02

Highest Band Edge / 1 RB



Date: 19.DEC.2020 12:16:43

Band Edge / Full RB



Date: 19.DEC.2020 12:13:22

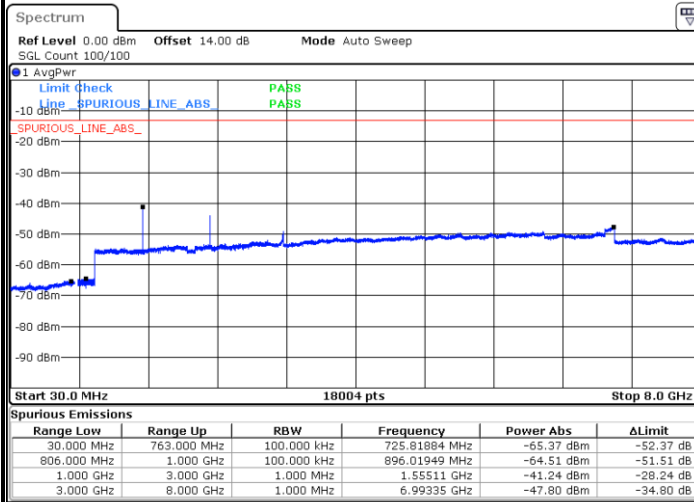


Conducted Spurious Emission



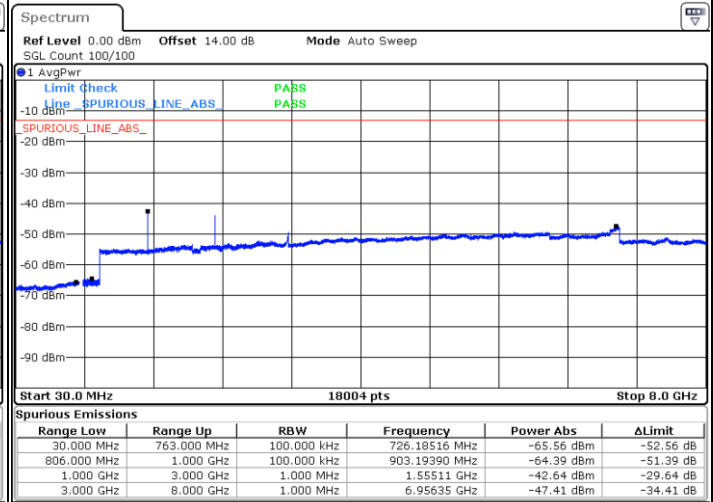
LTE Band 13 / 5MHz

Lowest Channel / QPSK



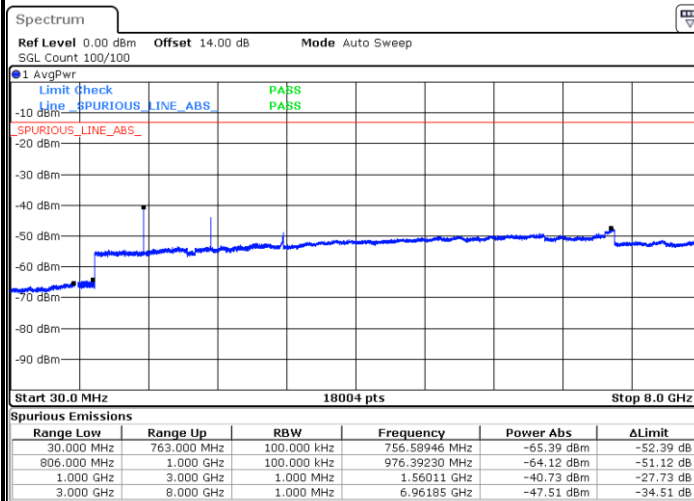
Date: 19.DEC.2020 11:21:12

Lowest Channel / 16QAM



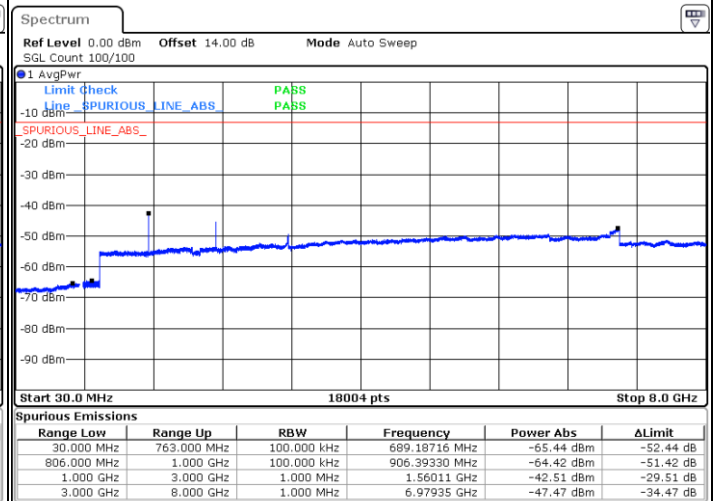
Date: 19.DEC.2020 11:22:24

Middle Channel / QPSK



Date: 19.DEC.2020 11:24:46

Middle Channel / 16QAM

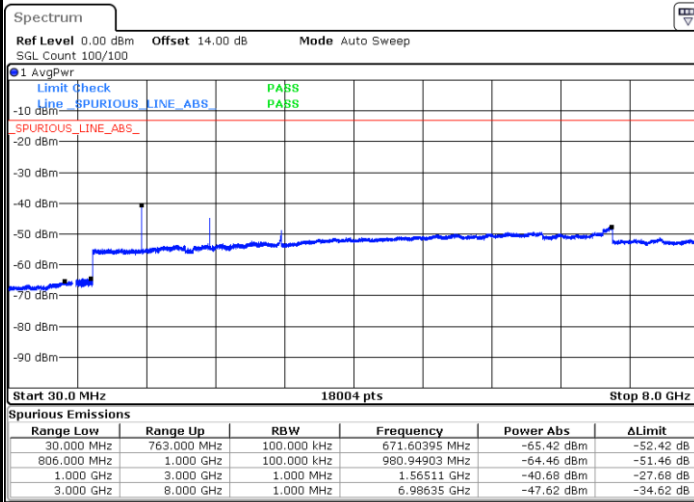


Date: 19.DEC.2020 11:23:35



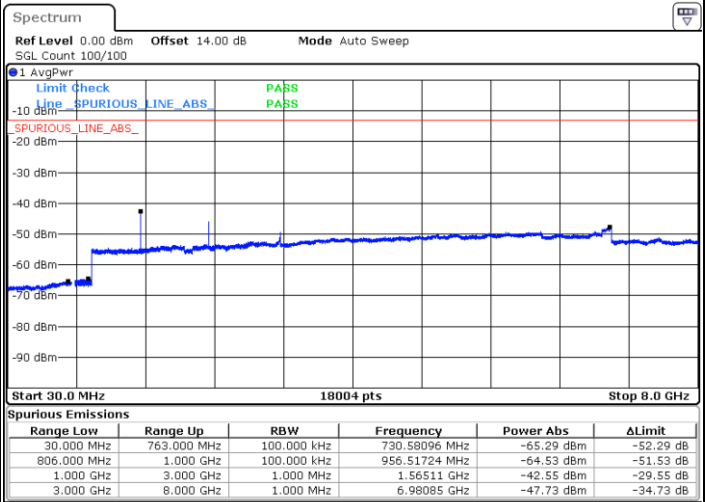
LTE Band 13 / 5MHz

Highest Channel / QPSK



Date: 19.DEC.2020 11:34:11

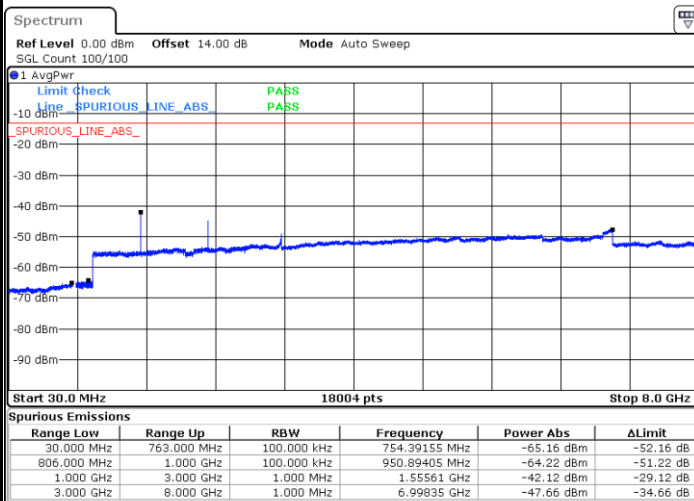
Highest Channel / 16QAM



Date: 19.DEC.2020 11:35:23

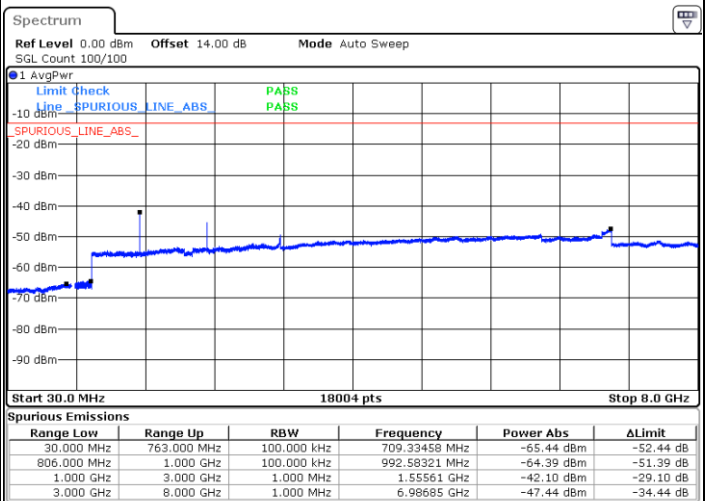
LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 19.DEC.2020 12:11:20

Middle Channel / 16QAM

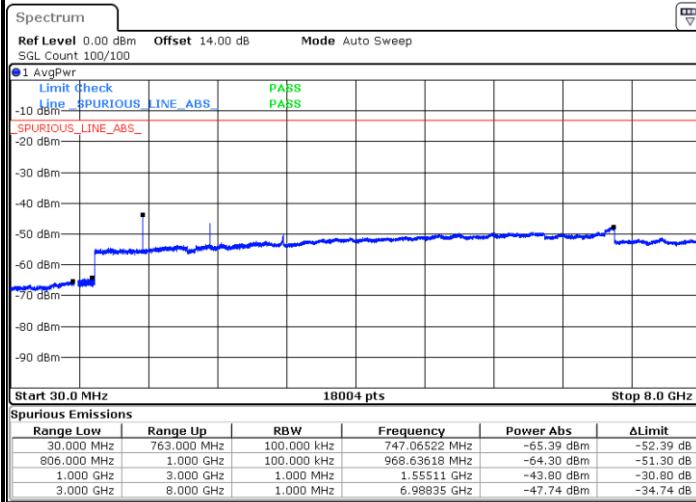


Date: 19.DEC.2020 12:10:08



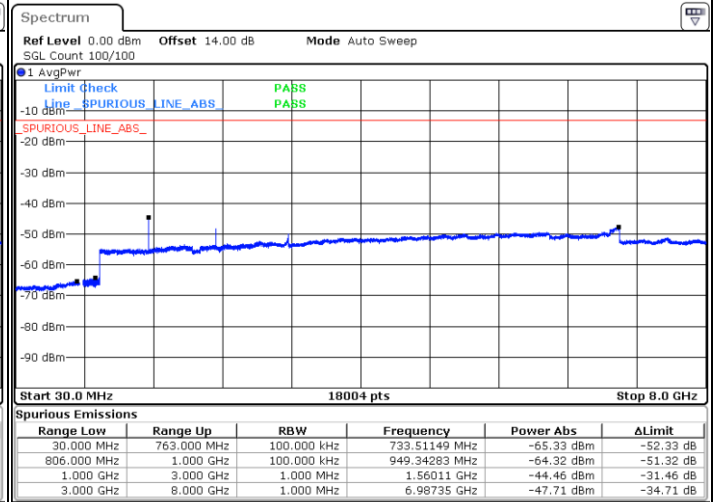
LTE Band 13 / 5MHz

Lowest Channel / 64QAM



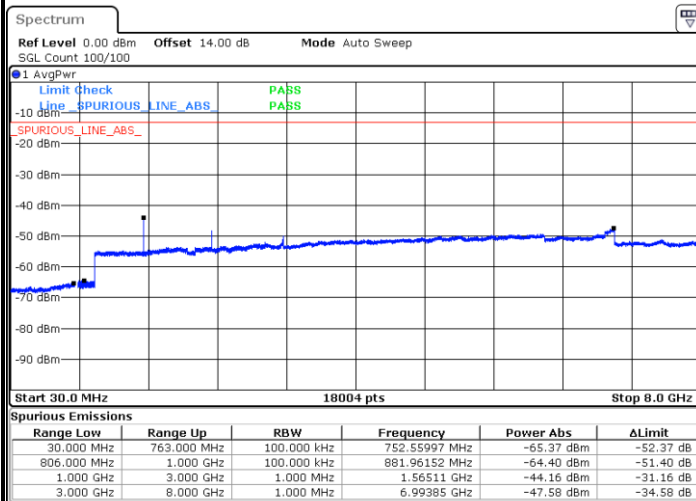
Date: 19.DEC.2020 11:40:19

Middle Channel / 64QAM



Date: 19.DEC.2020 11:41:31

Highest Channel / 64QAM

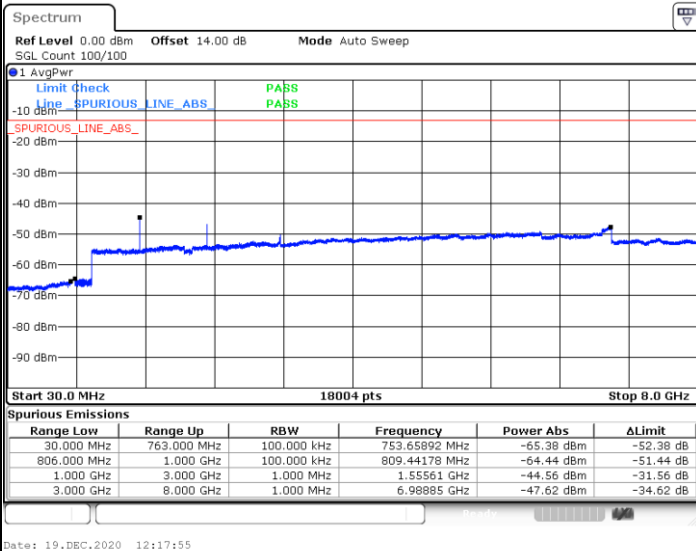


Date: 19.DEC.2020 12:37:36



LTE Band 13 / 10MHz

Middle Channel / 64QAM



Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0006	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0020	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0224	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0237	
-30	Normal Voltage	0.0008	
20	Maximum Voltage	0.0013	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0235	

Note:

1. Normal Voltage =3.3 V. ; Battery End Point (BEP) =3.14 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



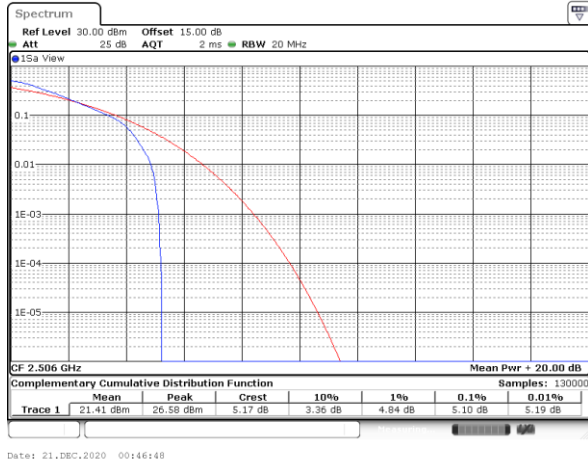
LTE Band 41

Peak-to-Average Ratio

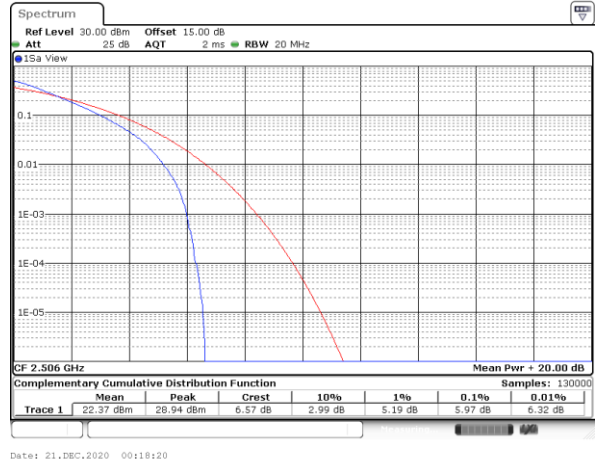
Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	5.10	5.97	6.20	6.43	PASS
Middle CH	6.23	6.29	7.30	6.32	
Highest CH	5.36	5.97	6.17	6.52	
Mode	LTE Band 41 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	7.13	6.06	-	-	PASS
Middle CH	6.90	7.01	-	-	
Highest CH	6.75	6.14	-	-	

LTE Band 41 / 20MHz / QPSK

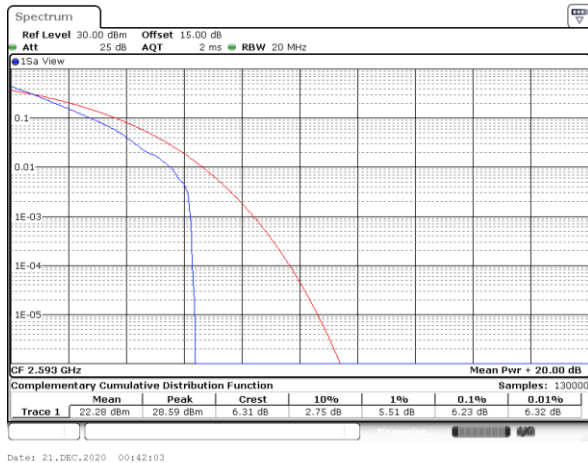
Lowest Channel / 1RB



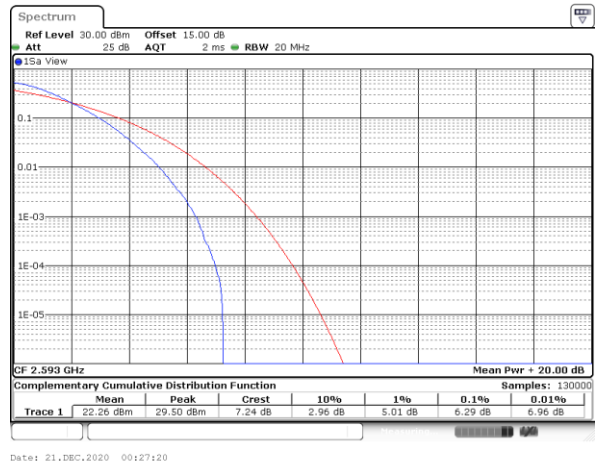
Lowest Channel / Full RB



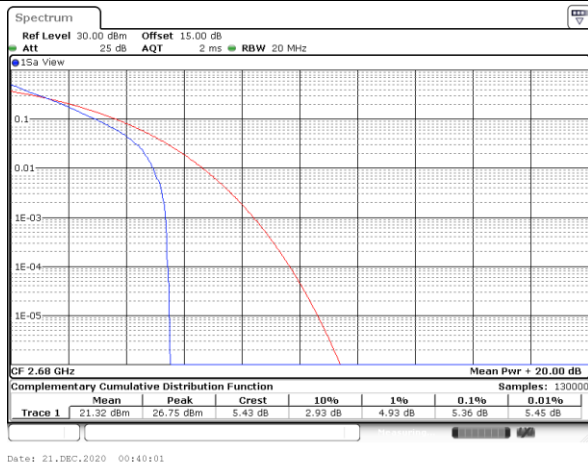
Middle Channel / 1RB



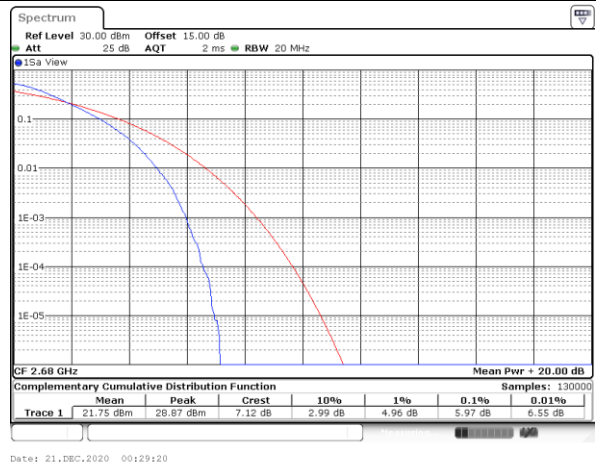
Middle Channel / Full RB



Highest Channel / 1RB

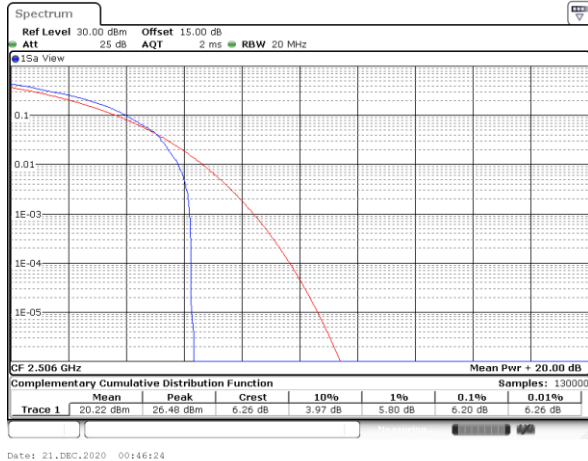


Highest Channel / Full RB

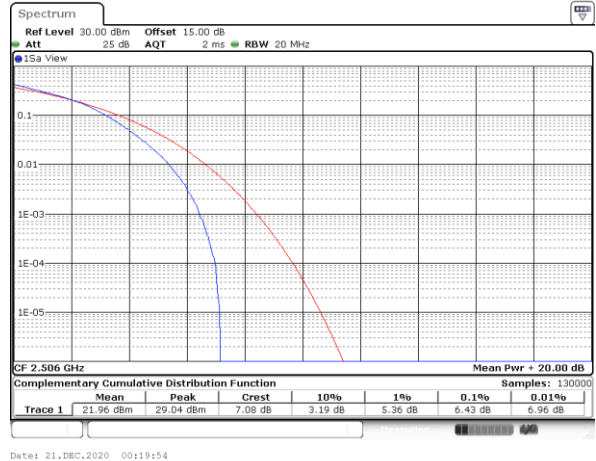


LTE Band 41 / 20MHz / 16QAM

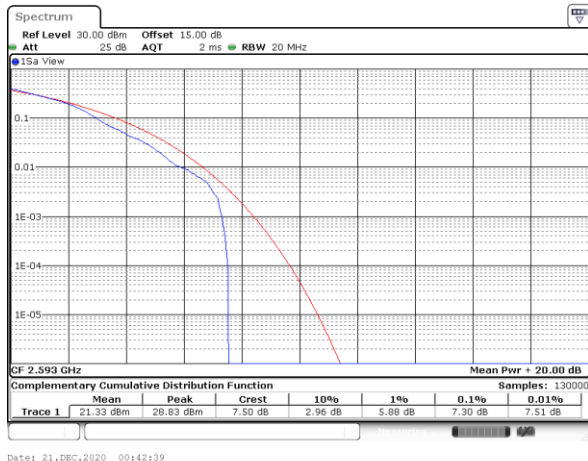
Lowest Channel / 1RB



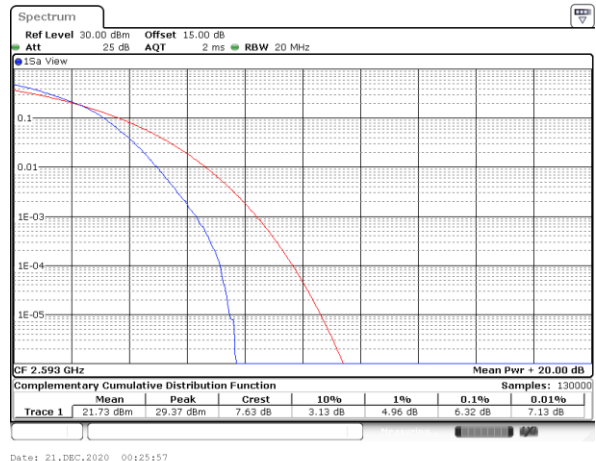
Lowest Channel / Full RB



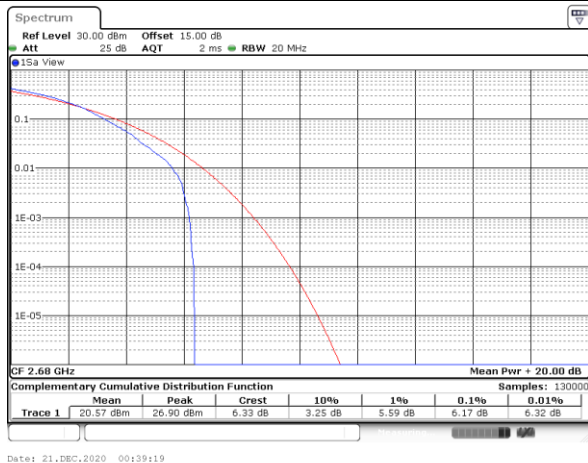
Middle Channel / 1RB



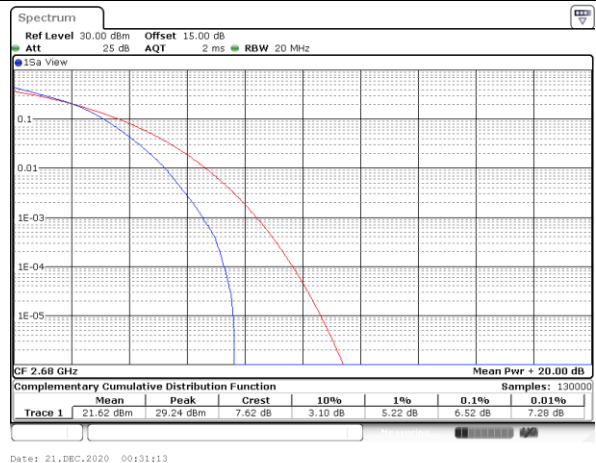
Middle Channel / Full RB

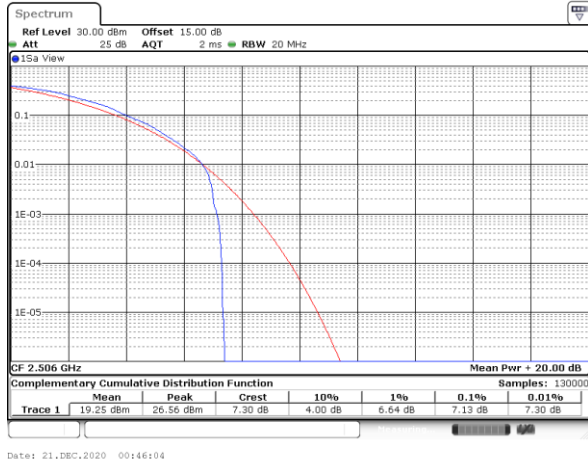
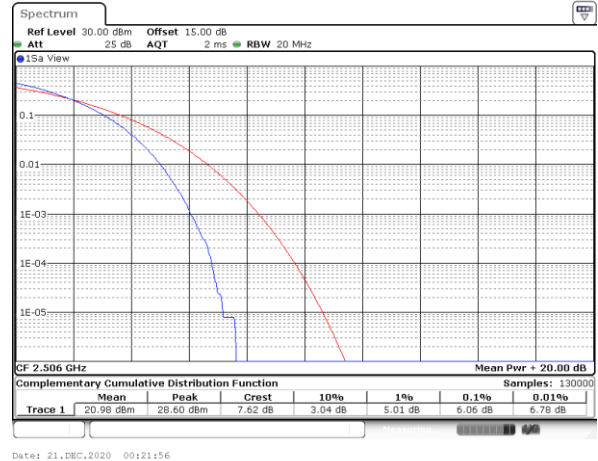
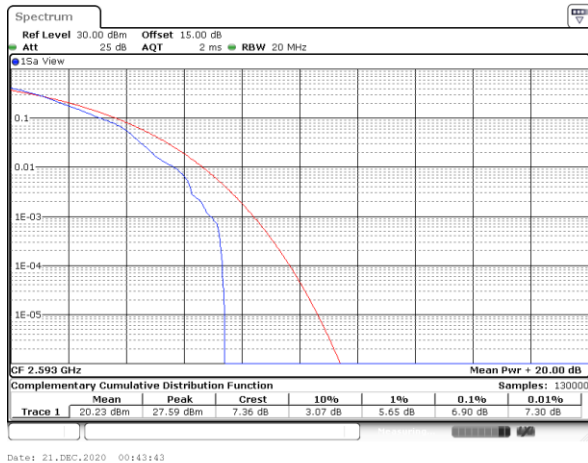
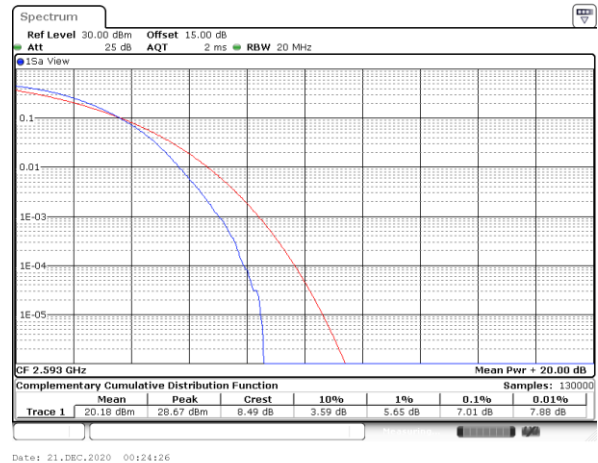
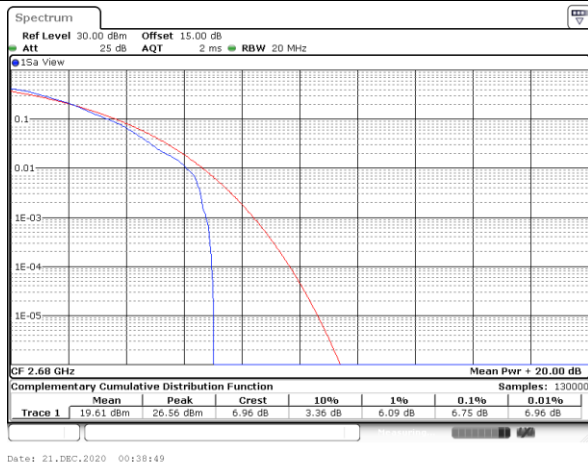
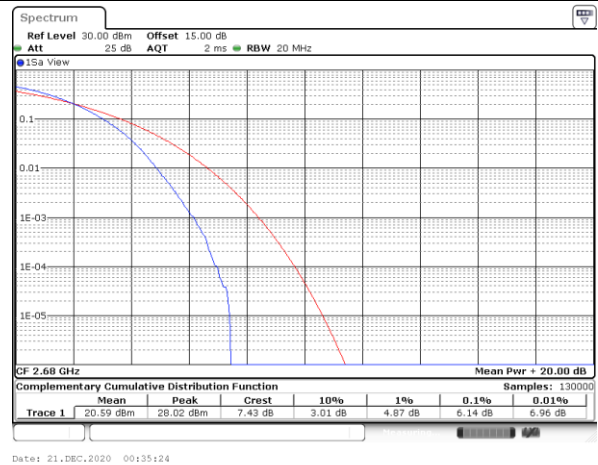


Highest Channel / 1RB



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


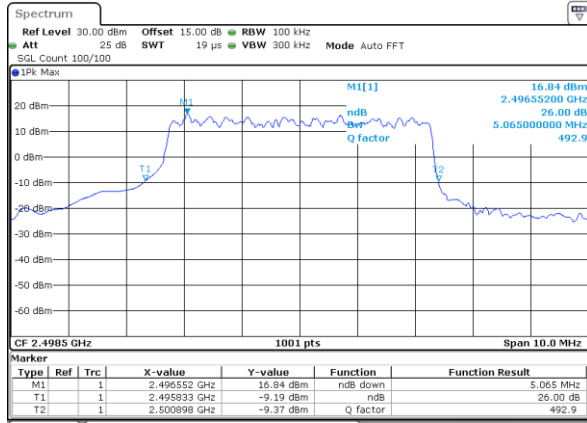
**26dB Bandwidth**

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	-	-	-	-	5.07	4.89	9.69	9.91	14.33	14.54	18.86	18.82
Middle CH	-	-	-	-	4.83	4.90	9.75	9.65	14.39	14.21	19.02	18.62
Highest CH	-	-	-	-	4.79	4.79	9.73	9.71	14.12	14.24	19.14	19.06
Mode	LTE Band 41 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.82	-	9.87	-	14.15	-	19.18	-
Middle CH	-	-	-	-	5.01	-	9.81	-	14.87	-	18.98	-
Highest CH	-	-	-	-	4.83	-	9.63	-	14.24	-	18.66	-



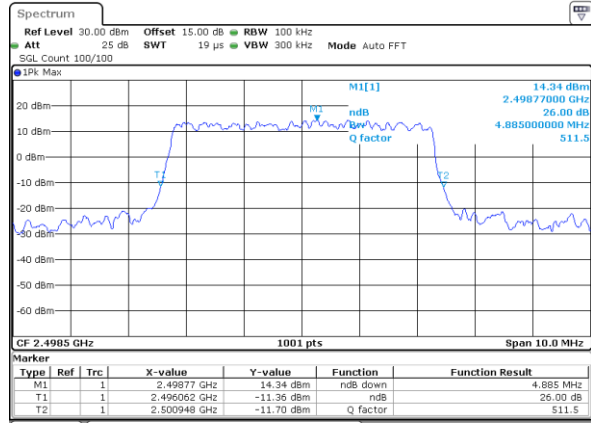
LTE Band 41

Lowest Channel / 5MHz / QPSK



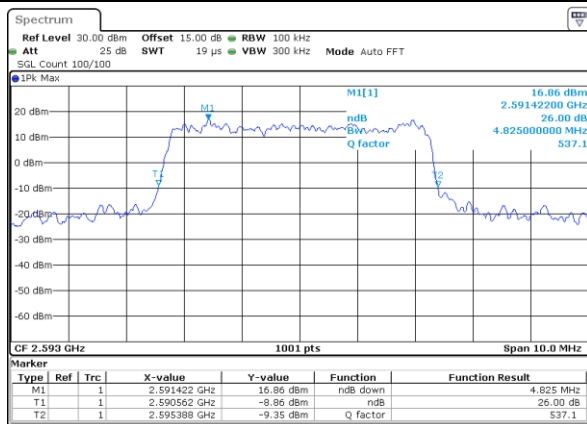
Date: 20, DEC, 2020 19:04:53

Lowest Channel / 5MHz / 16QAM



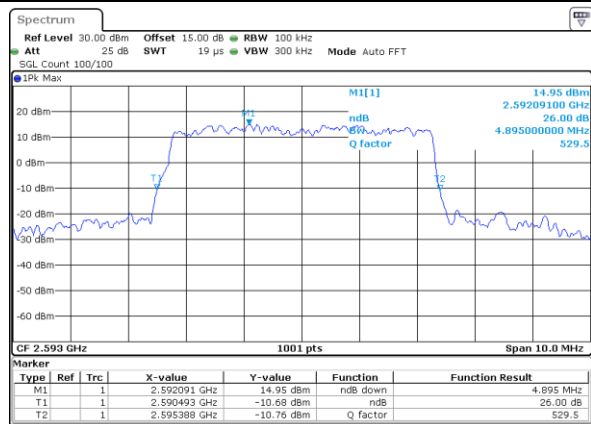
Date: 20, DEC, 2020 19:04:19

Middle Channel / 5MHz / QPSK



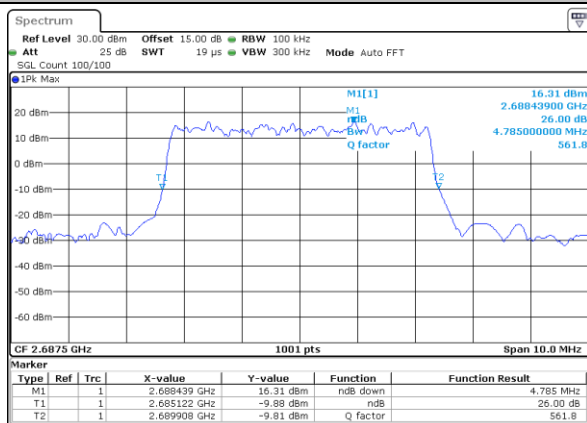
Date: 20, DEC, 2020 19:10:11

Middle Channel / 5MHz / 16QAM



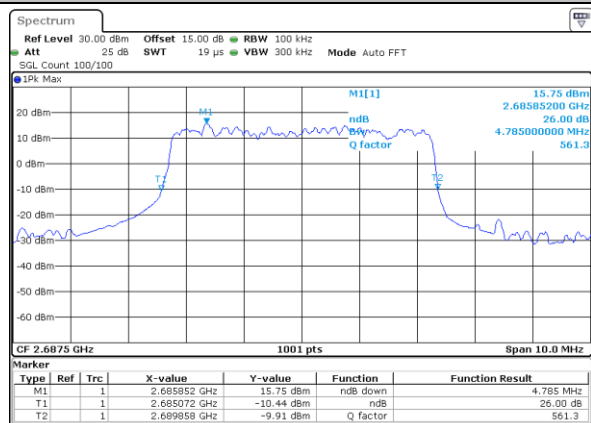
Date: 20, DEC, 2020 19:09:33

Highest Channel / 5MHz / QPSK



Date: 20, DEC, 2020 19:11:38

Highest Channel / 5MHz / 16QAM

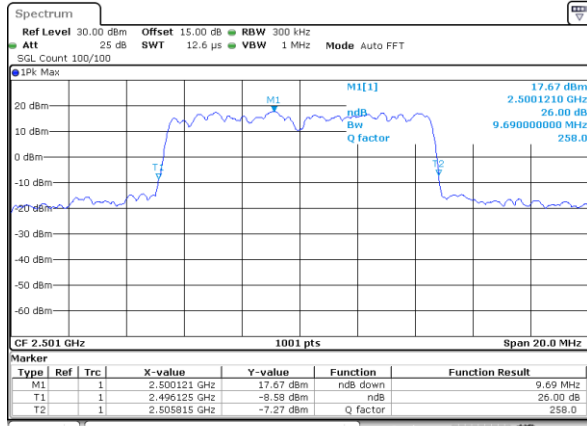


Date: 20, DEC, 2020 19:12:12



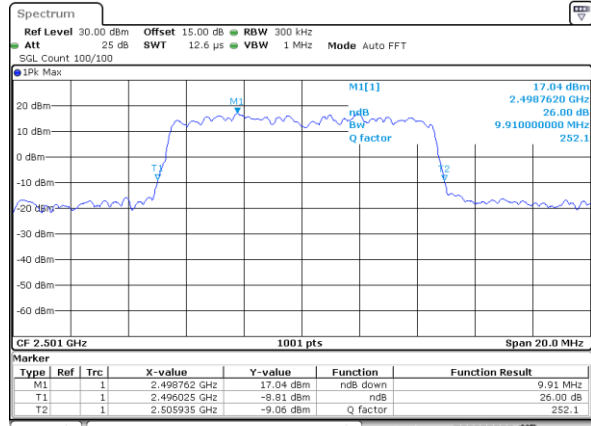
LTE Band 41

Lowest Channel / 10MHz / QPSK



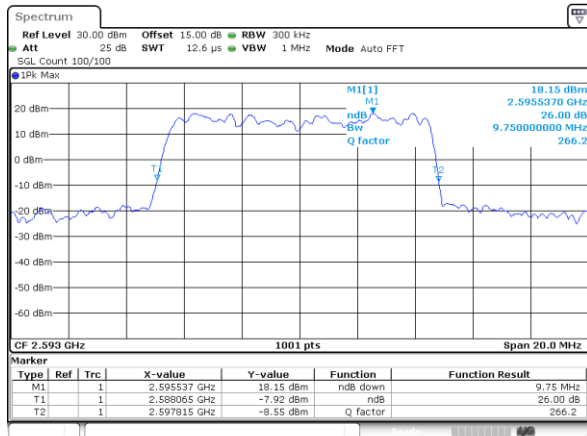
Date: 20, DEC, 2020 21:15:24

Lowest Channel / 10MHz / 16QAM



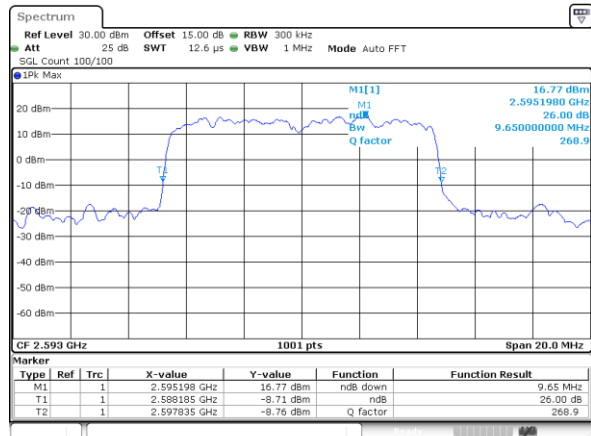
Date: 20, DEC, 2020 21:16:18

Middle Channel / 10MHz / QPSK



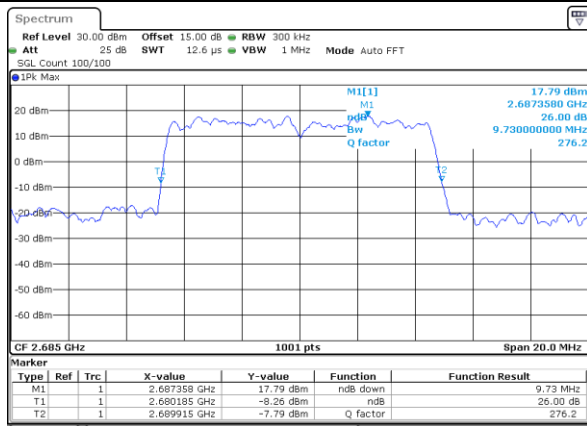
Date: 20, DEC, 2020 21:38:00

Middle Channel / 10MHz / 16QAM



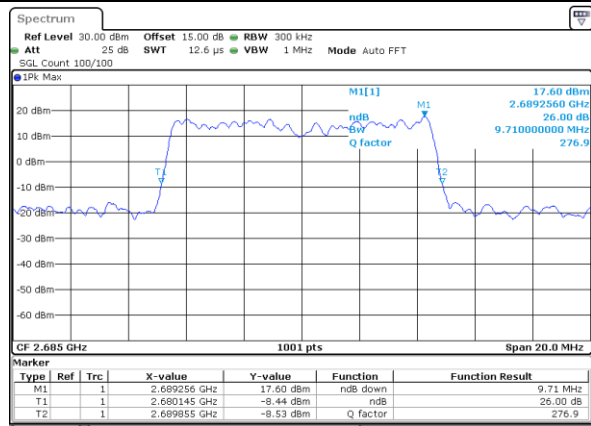
Date: 20, DEC, 2020 21:38:52

Highest Channel / 10MHz / QPSK



Date: 20, DEC, 2020 21:38:54

Highest Channel / 10MHz / 16QAM

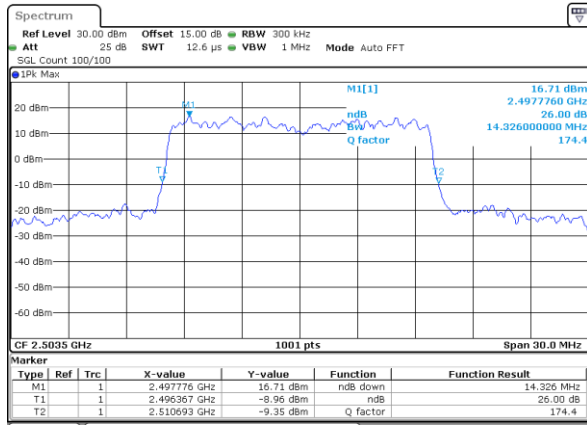


Date: 20, DEC, 2020 21:39:27



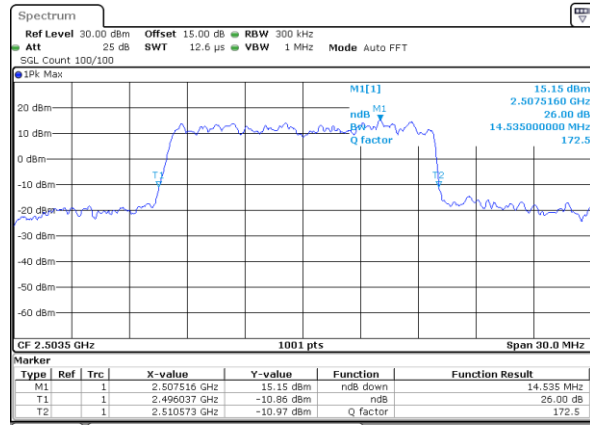
LTE Band 41

Lowest Channel / 15MHz / QPSK



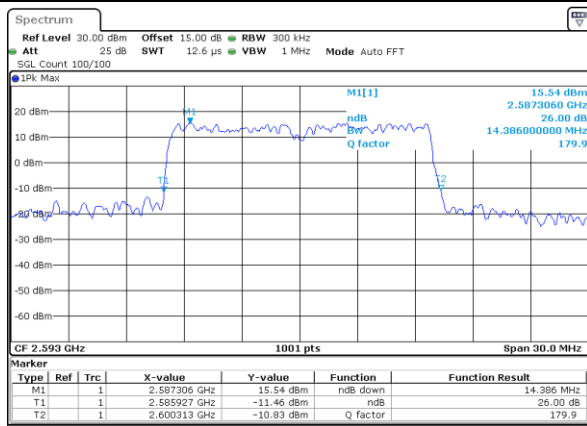
Date: 20, DEC, 2020 22:35:35

Lowest Channel / 15MHz / 16QAM



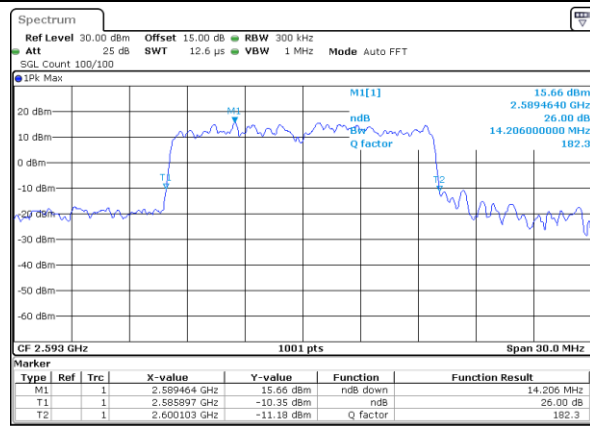
Date: 20, DEC, 2020 22:37:25

Middle Channel / 15MHz / QPSK



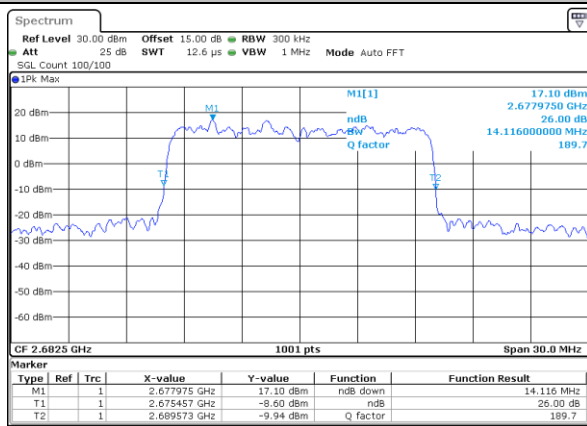
Date: 20, DEC, 2020 22:45:23

Middle Channel / 15MHz / 16QAM



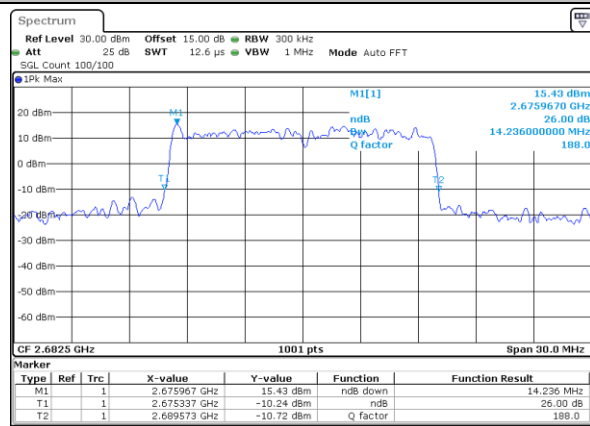
Date: 20, DEC, 2020 22:44:19

Highest Channel / 15MHz / QPSK



Date: 20, DEC, 2020 22:48:59

Highest Channel / 15MHz / 16QAM

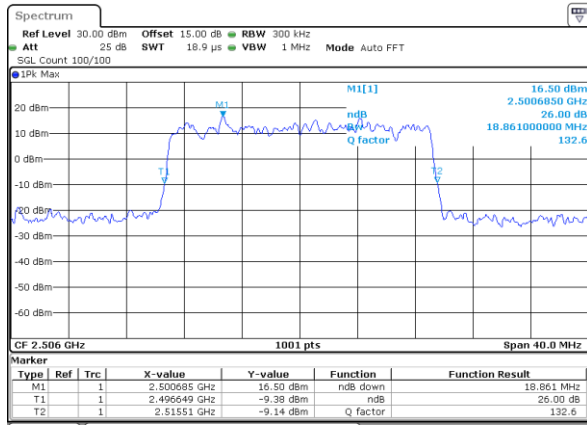


Date: 20, DEC, 2020 22:49:29



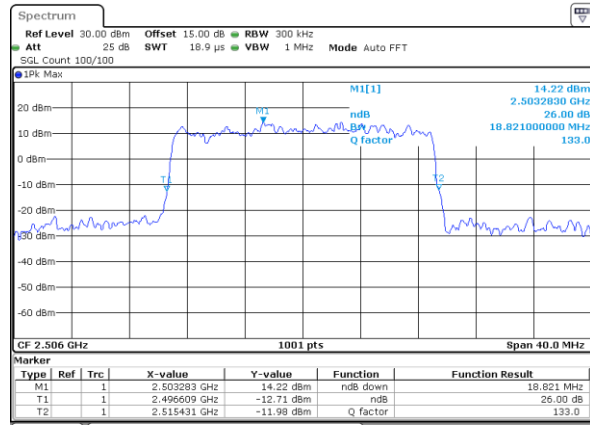
LTE Band 41

Lowest Channel / 20MHz / QPSK



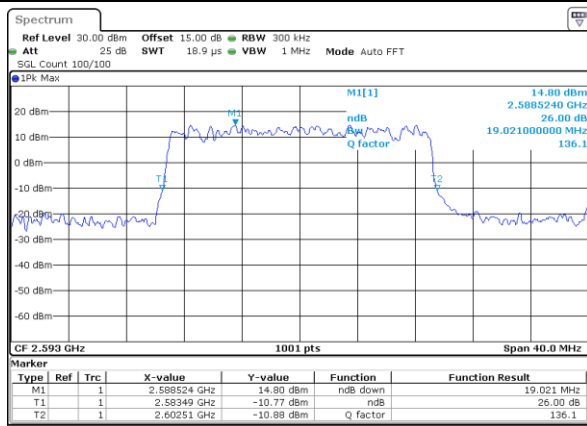
Date: 21.DEC.2020 00:18:57

Lowest Channel / 20MHz / 16QAM



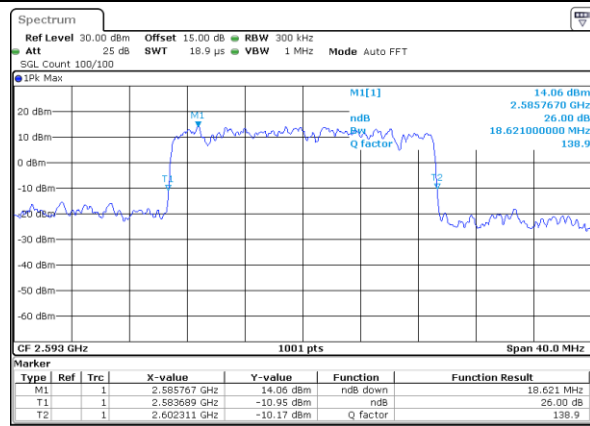
Date: 21.DEC.2020 00:20:36

Middle Channel / 20MHz / QPSK



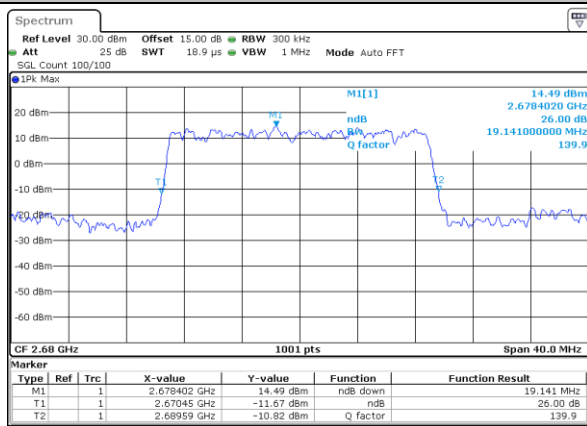
Date: 21.DEC.2020 00:27:47

Middle Channel / 20MHz / 16QAM



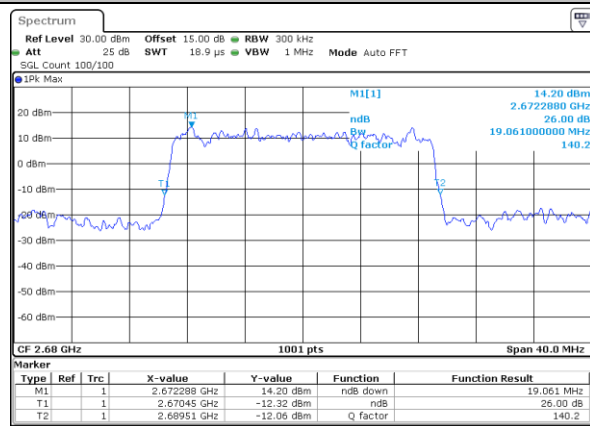
Date: 21.DEC.2020 00:26:29

Highest Channel / 20MHz / QPSK



Date: 21.DEC.2020 00:30:32

Highest Channel / 20MHz / 16QAM

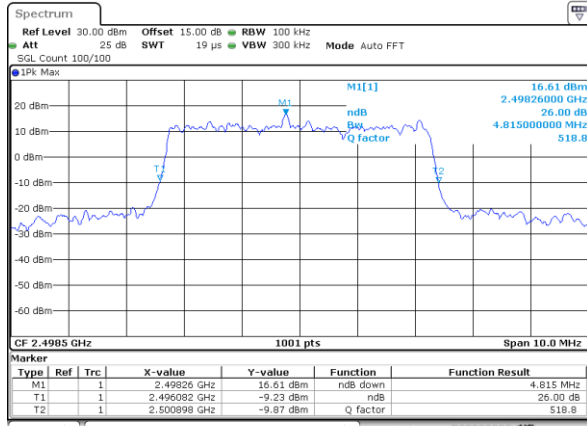


Date: 21.DEC.2020 00:33:38



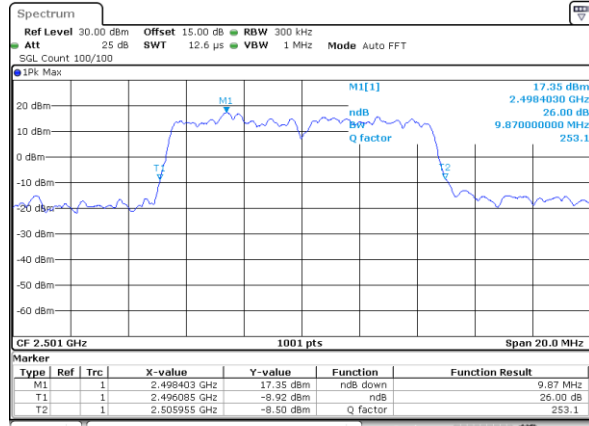
LTE Band 41

Lowest Channel / 5MHz / 64QAM



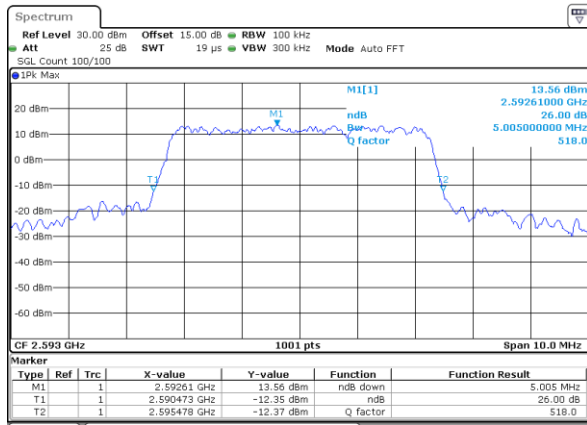
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Lowest Channel / 10MHz / 64QAM



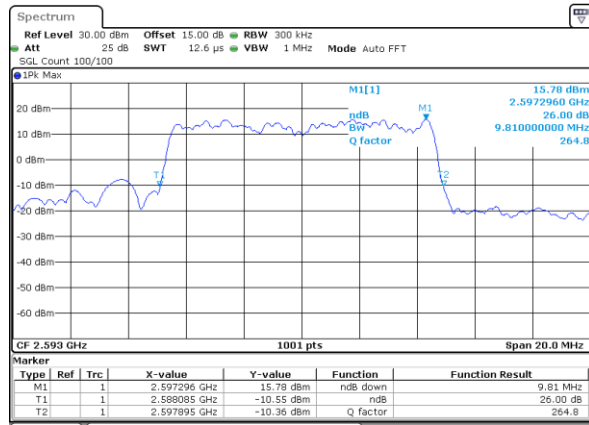
Date: 20, DEC, 2020 21:17:26

Middle Channel / 5MHz / 64QAM



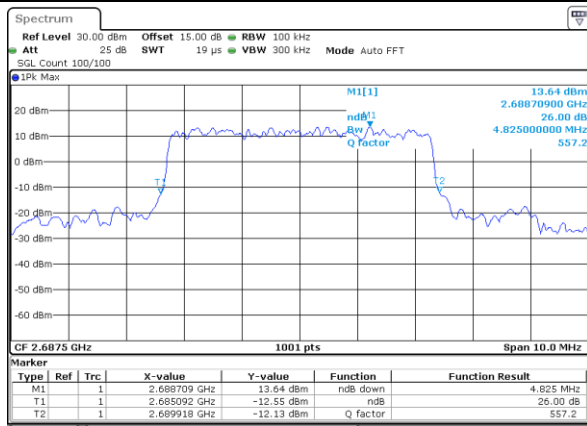
Date: 20, DEC, 2020 19:08:29

Middle Channel / 10MHz / 64QAM



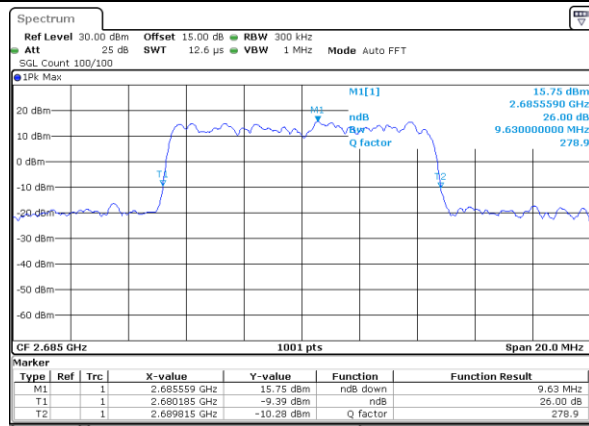
Date: 20, DEC, 2020 21:12:40

Highest Channel / 5MHz / 64QAM



Date: 20, DEC, 2020 19:12:44

Highest Channel / 10MHz / 64QAM

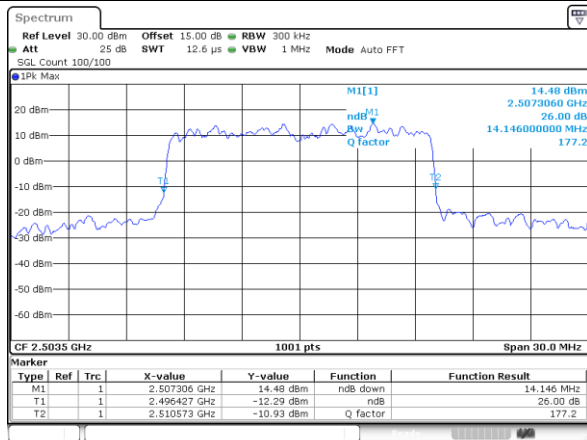


Date: 20, DEC, 2020 21:31:56

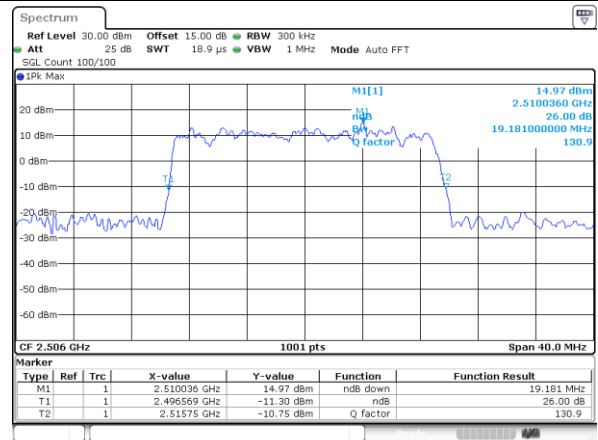


LTE Band 41

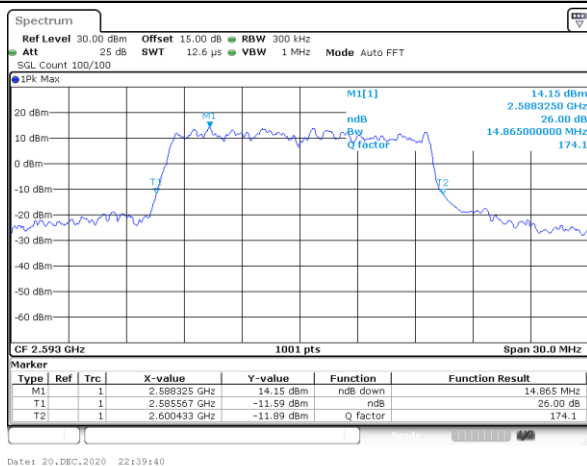
Lowest Channel / 15MHz / 64QAM



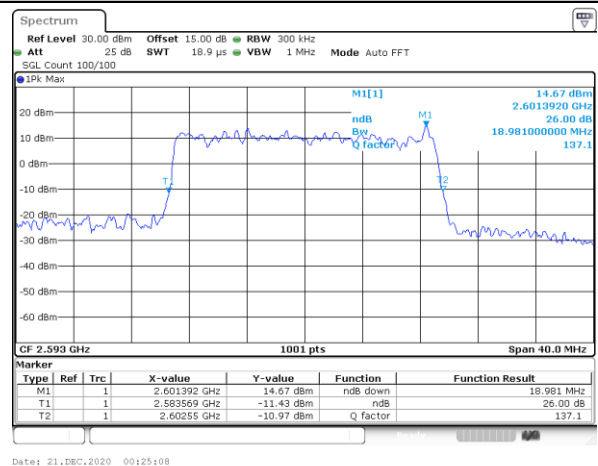
Lowest Channel / 20MHz / 64QAM



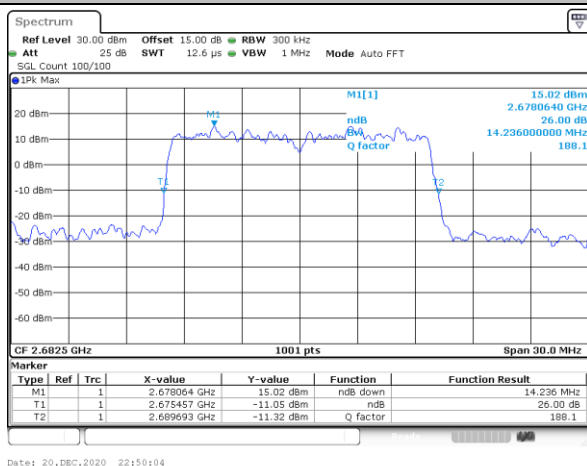
Middle Channel / 15MHz / 64QAM



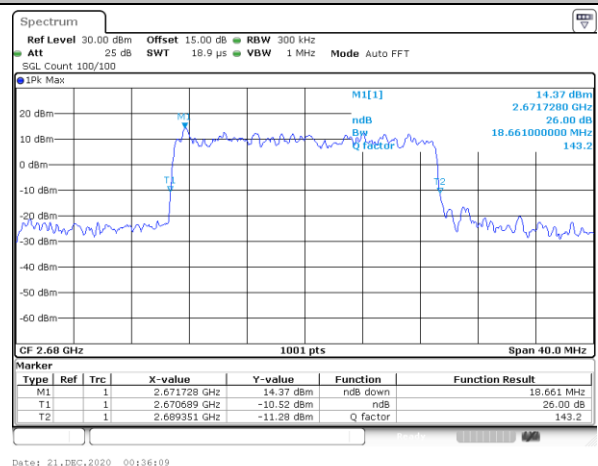
Middle Channel / 20MHz / 64QAM



Highest Channel / 15MHz / 64QAM

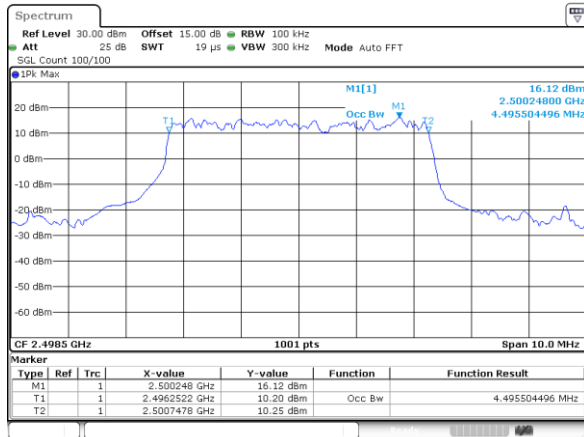


Highest Channel / 20MHz / 64QAM

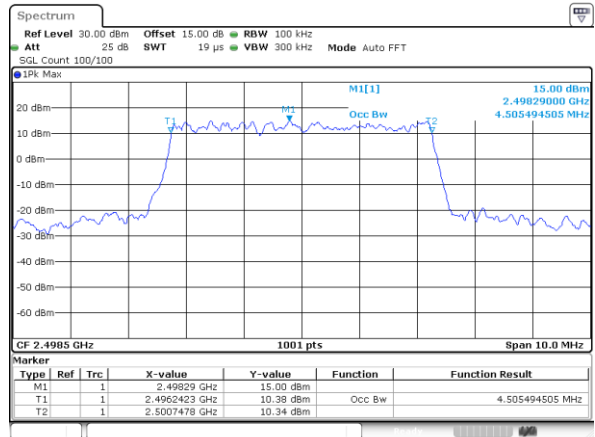


**Occupied Bandwidth**

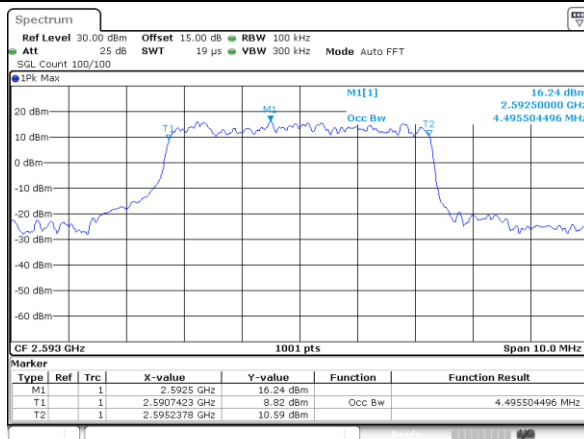
Mode	LTE Band 41 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.50	4.51	9.01	9.05	13.46	13.49	17.90	17.86
Middle CH	-	-	-	-	4.50	4.49	9.03	8.97	13.40	13.46	17.94	17.86
Highest CH	-	-	-	-	4.48	4.49	9.05	8.97	13.43	13.46	17.94	17.94
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	-	9.21	-	13.49	-	17.90	-
Middle CH	-	-	-	-	4.49	-	9.01	-	13.40	-	17.98	-
Highest CH	-	-	-	-	4.49	-	9.03	-	13.46	-	17.90	-

**LTE Band 41****Lowest Channel / 5MHz / QPSK**

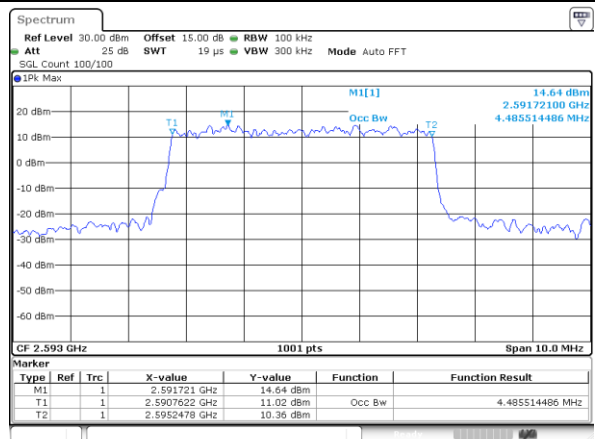
Date: 20.DEC.2020 19:04:40

Lowest Channel / 5MHz / 16QAM

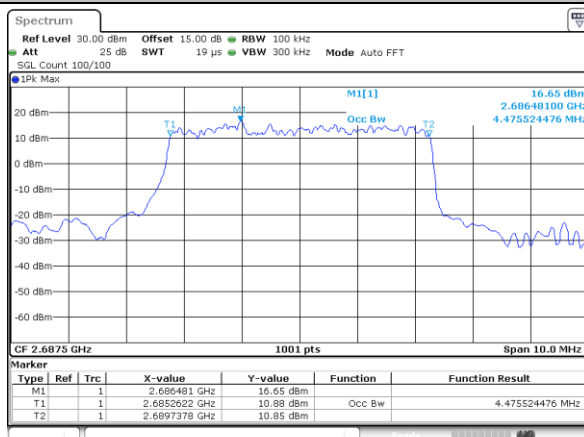
Date: 20.DEC.2020 19:04:04

Middle Channel / 5MHz / QPSK

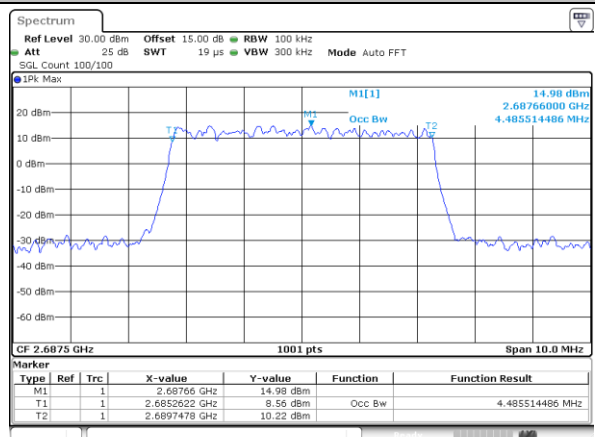
Date: 20.DEC.2020 19:09:55

Middle Channel / 5MHz / 16QAM

Date: 20.DEC.2020 19:09:06

Highest Channel / 5MHz / QPSK

Date: 20.DEC.2020 19:11:27

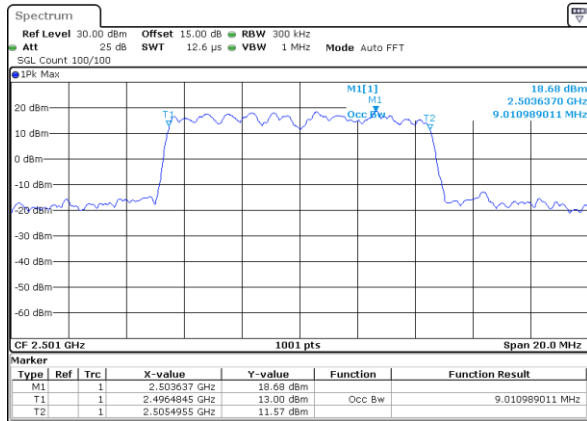
Highest Channel / 5MHz / 16QAM

Date: 20.DEC.2020 19:11:58



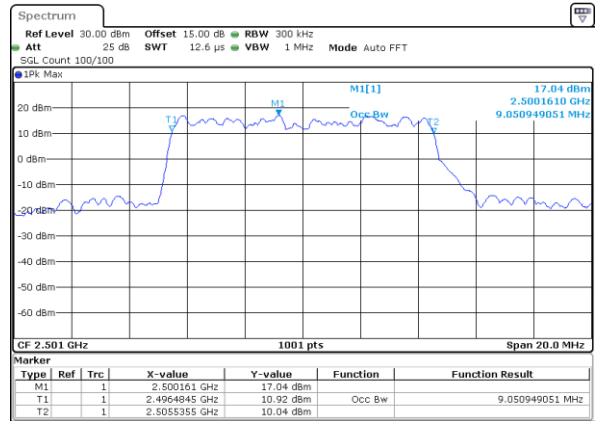
LTE Band 41

Lowest Channel / 10MHz / QPSK



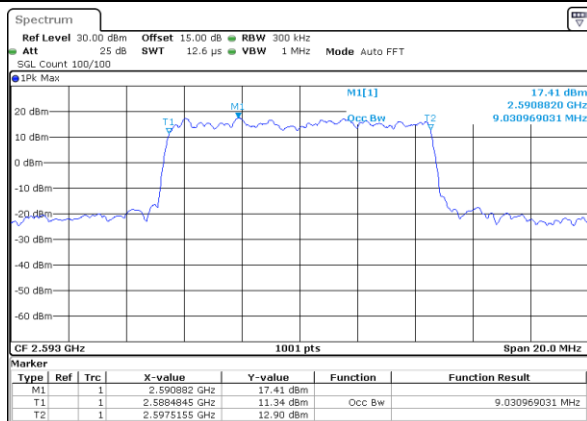
Date: 20.DEC.2020 21:14:50

Lowest Channel / 10MHz / 16QAM



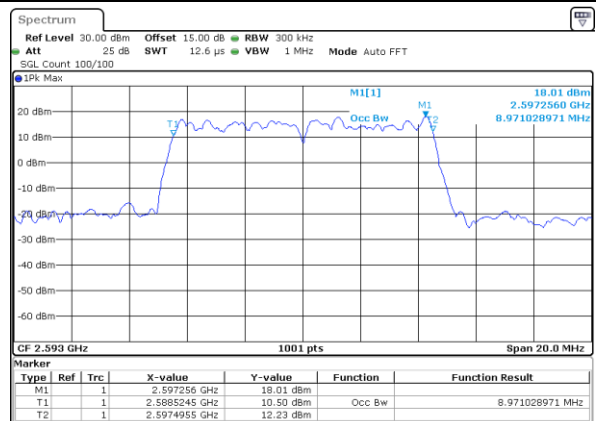
Date: 20.DEC.2020 21:15:44

Middle Channel / 10MHz / QPSK



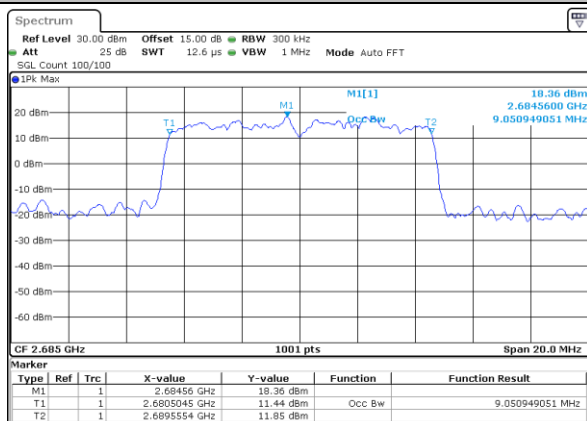
Date: 20.DEC.2020 21:29:11

Middle Channel / 10MHz / 16QAM



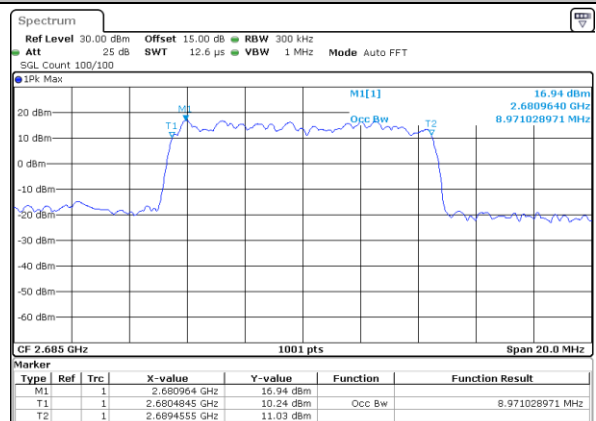
Date: 20.DEC.2020 21:28:08

Highest Channel / 10MHz / QPSK

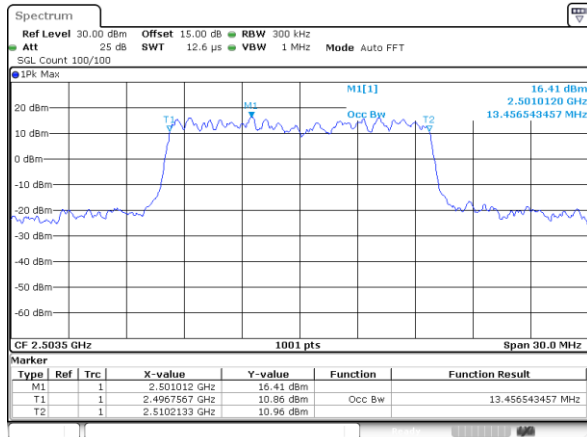


Date: 20.DEC.2020 21:30:41

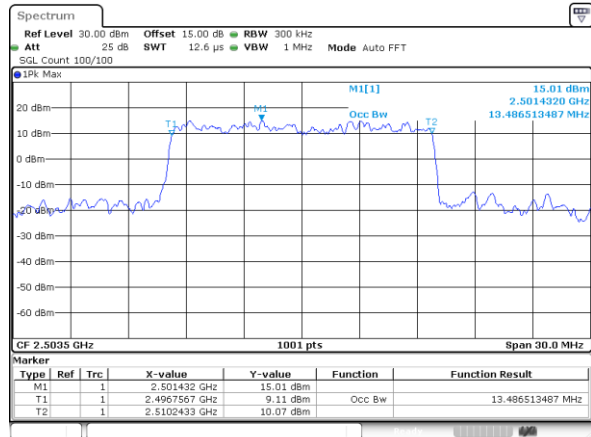
Highest Channel / 10MHz / 16QAM



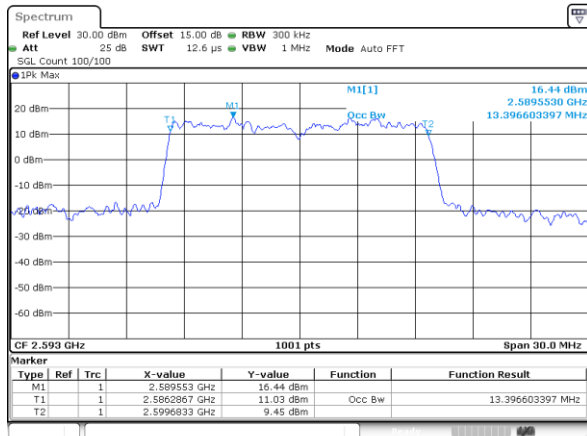
Date: 20.DEC.2020 21:31:16

**LTE Band 41****Lowest Channel / 15MHz / QPSK**

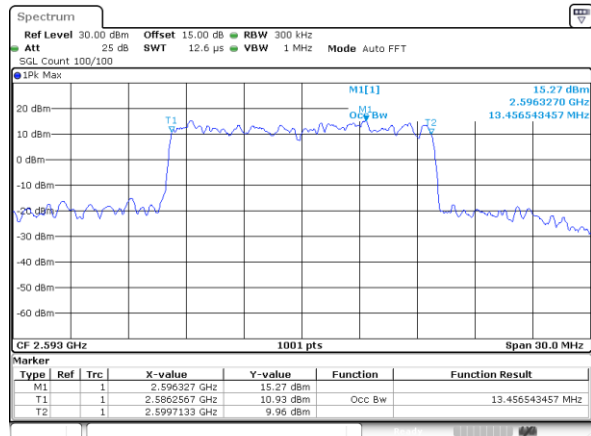
Date: 20, DEC, 2020 22:35:21

Lowest Channel / 15MHz / 16QAM

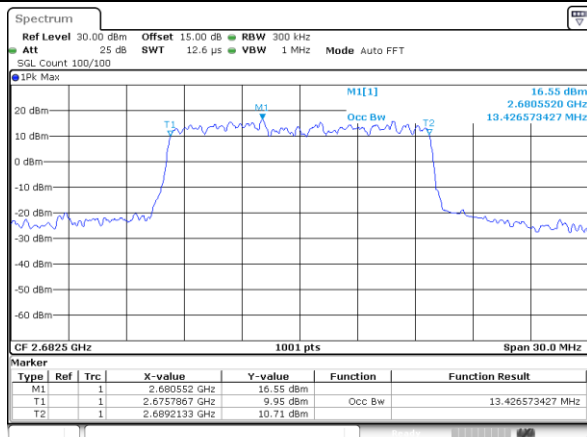
Date: 20, DEC, 2020 22:36:154

Middle Channel / 15MHz / QPSK

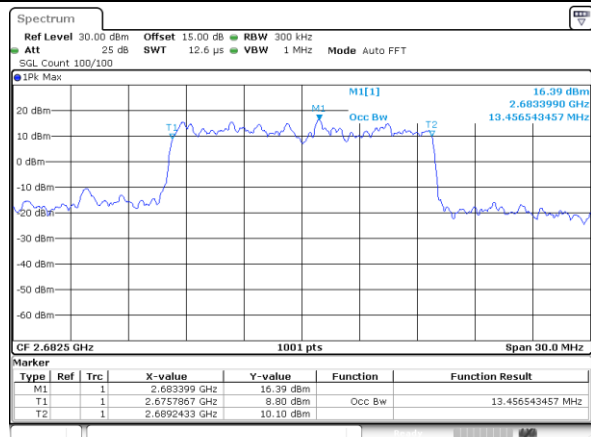
Date: 20, DEC, 2020 22:45:02

Middle Channel / 15MHz / 16QAM

Date: 20, DEC, 2020 22:44:04

Highest Channel / 15MHz / QPSK

Date: 20, DEC, 2020 22:48:31

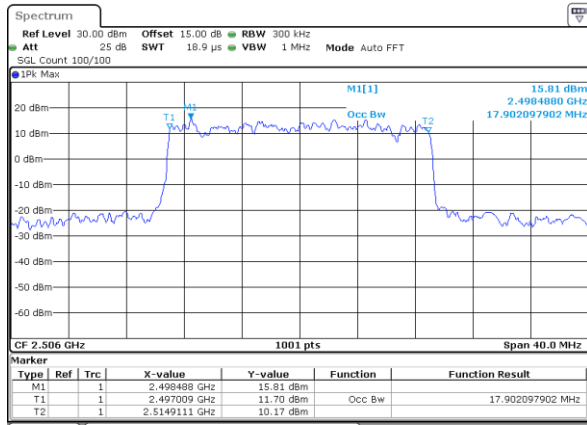
Highest Channel / 15MHz / 16QAM

Date: 20, DEC, 2020 22:49:18



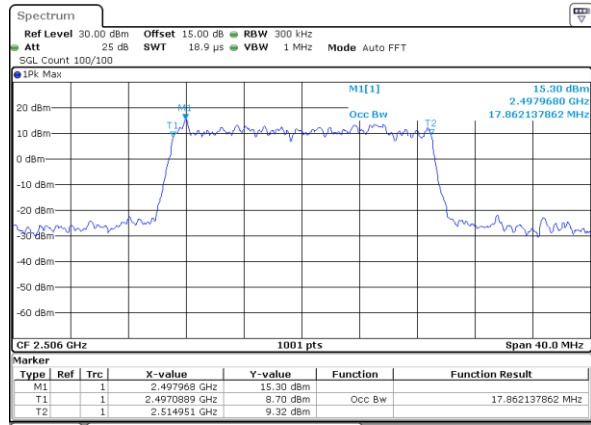
LTE Band 41

Lowest Channel / 20MHz / QPSK



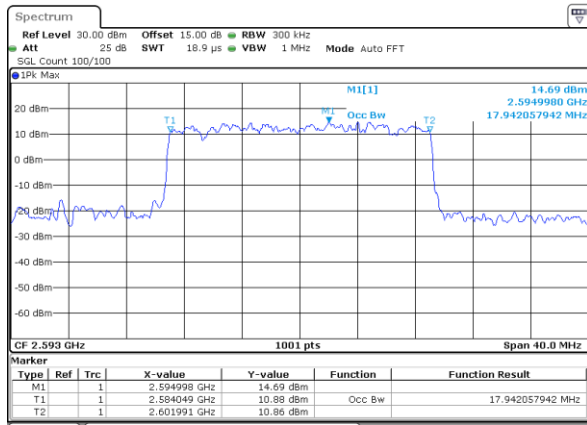
Date: 21.DEC.2020 00:18:41

Lowest Channel / 20MHz / 16QAM



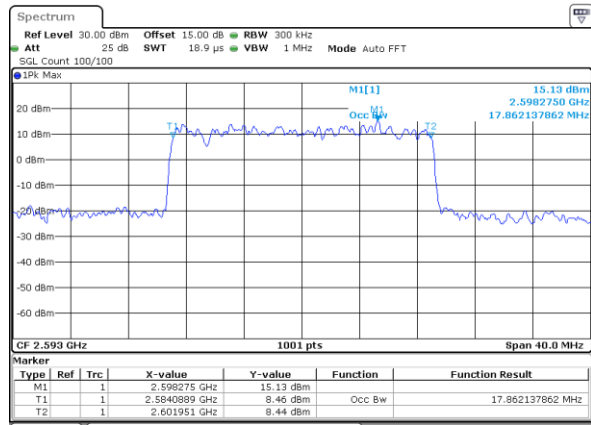
Date: 21.DEC.2020 00:20:12

Middle Channel / 20MHz / QPSK



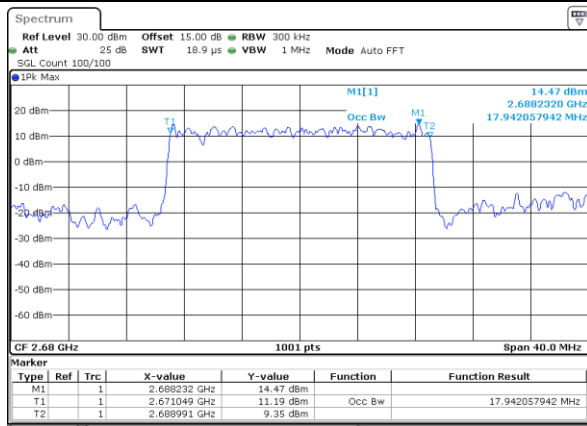
Date: 21.DEC.2020 00:27:32

Middle Channel / 20MHz / 16QAM



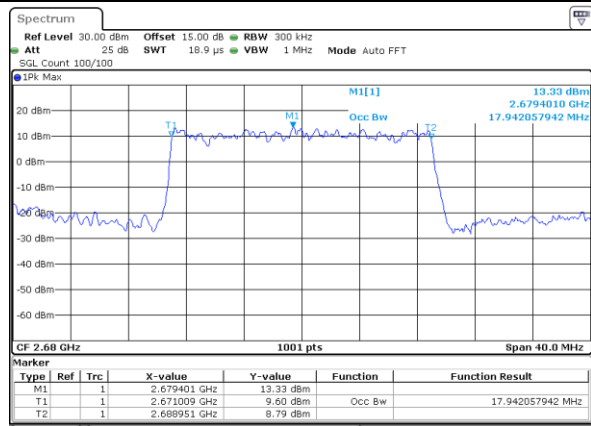
Date: 21.DEC.2020 00:26:16

Highest Channel / 20MHz / QPSK



Date: 21.DEC.2020 00:29:48

Highest Channel / 20MHz / 16QAM

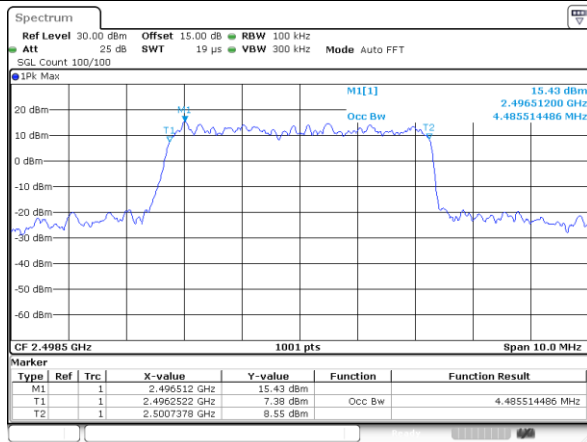


Date: 21.DEC.2020 00:33:21

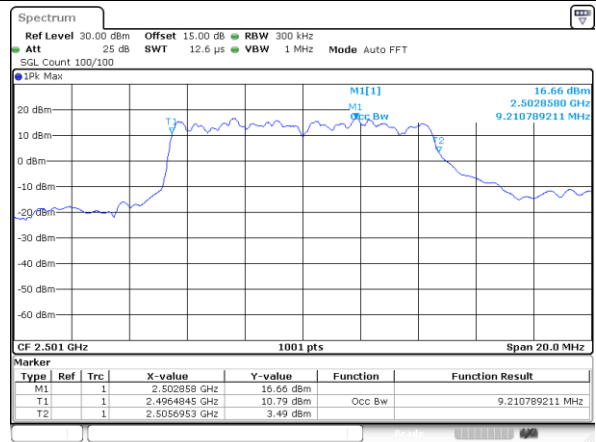


LTE Band 41

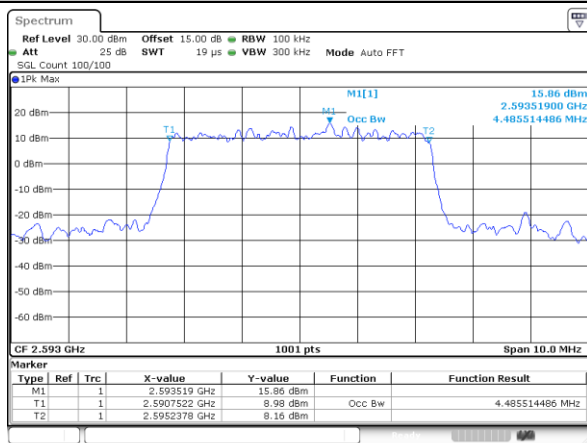
Lowest Channel / 5MHz / 64QAM



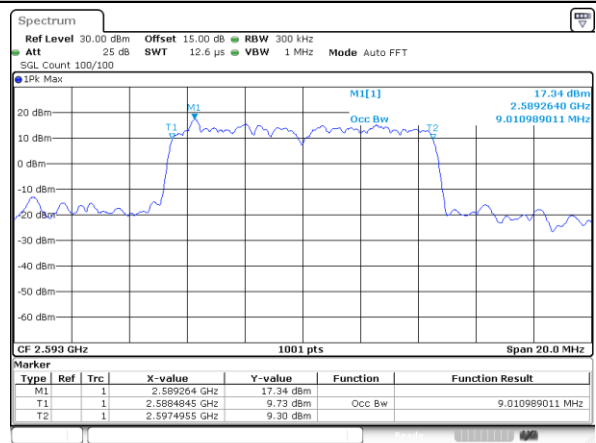
Lowest Channel / 10MHz / 64QAM



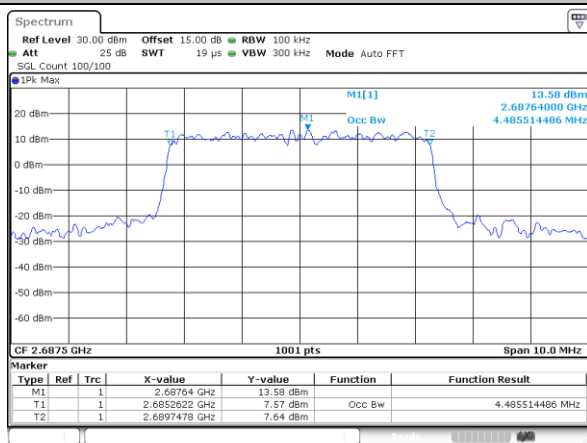
Middle Channel / 5MHz / 64QAM



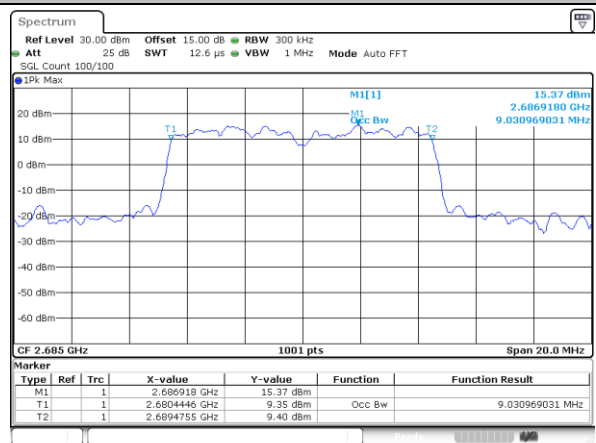
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



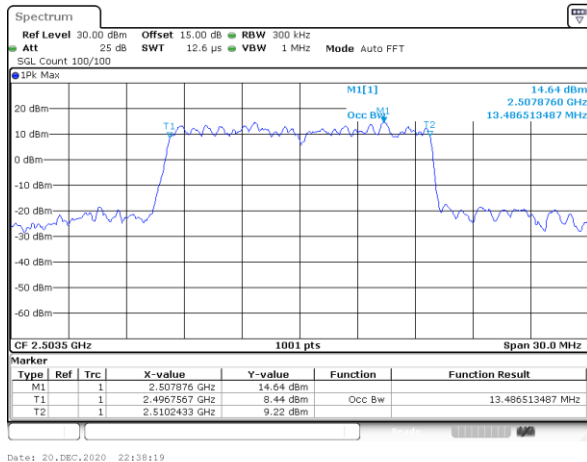
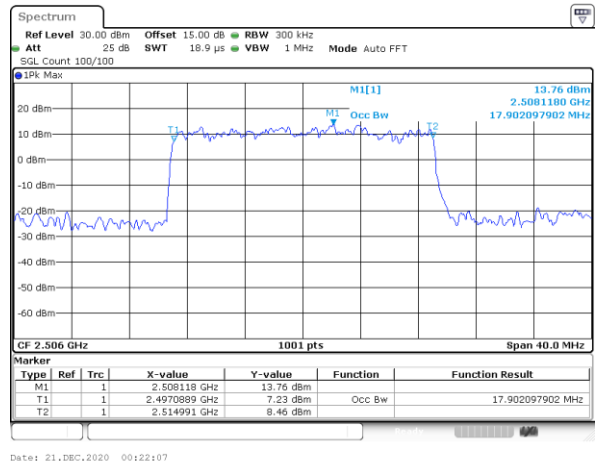
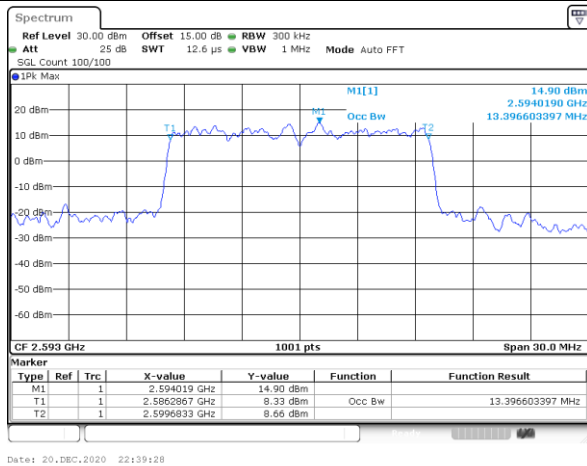
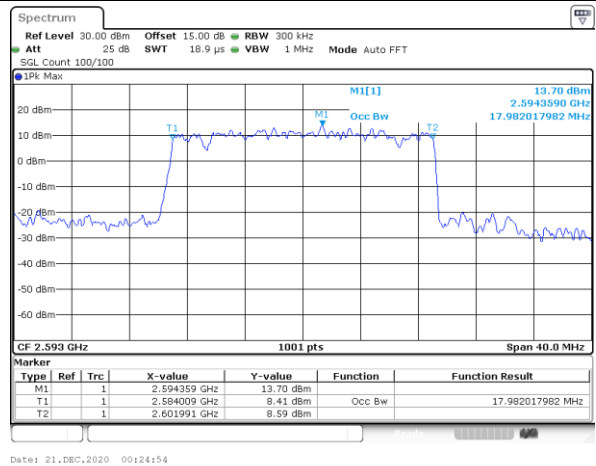
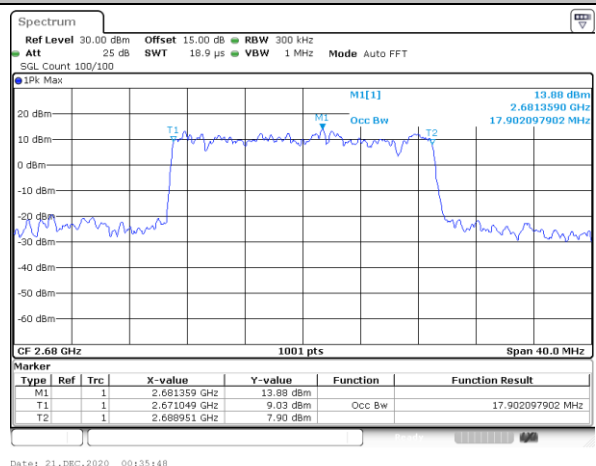
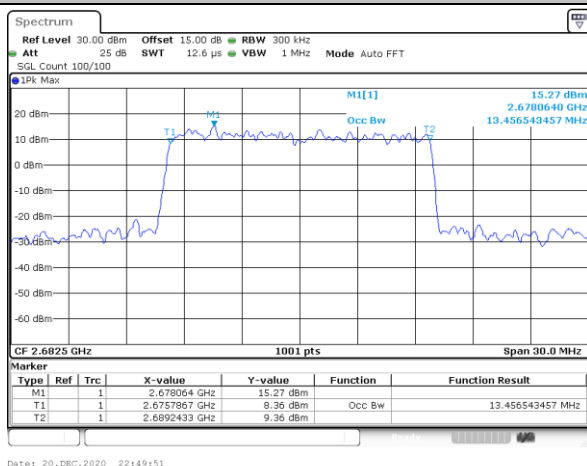
Highest Channel / 10MHz / 64QAM



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**

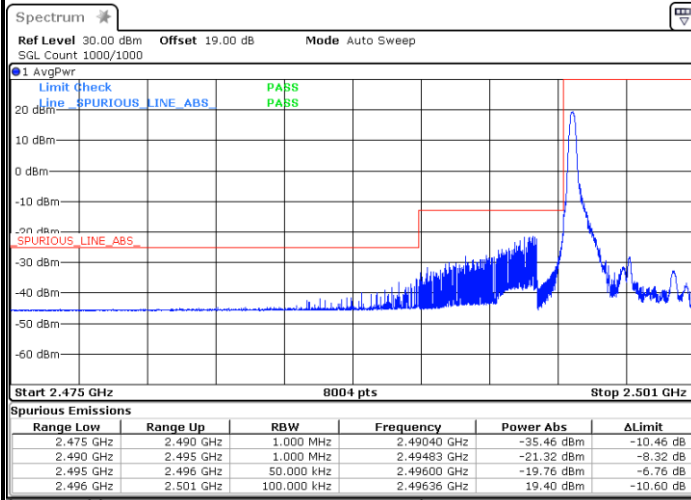


Conducted Band Edge

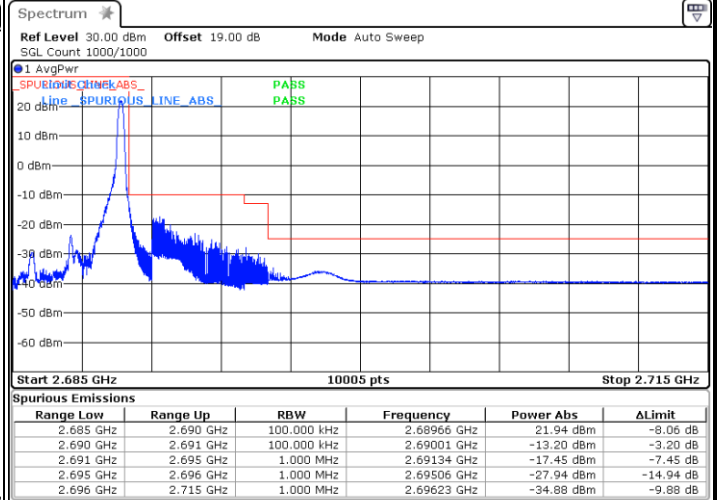


LTE Band 41 / 5MHz / QPSK

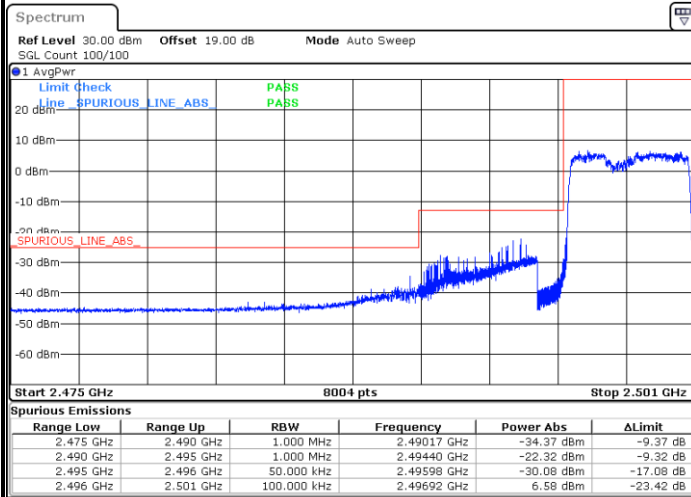
Lowest Band Edge / 1 RB



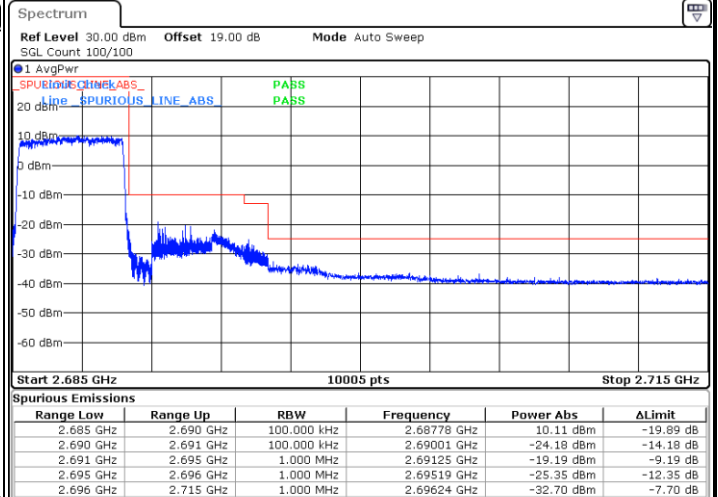
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



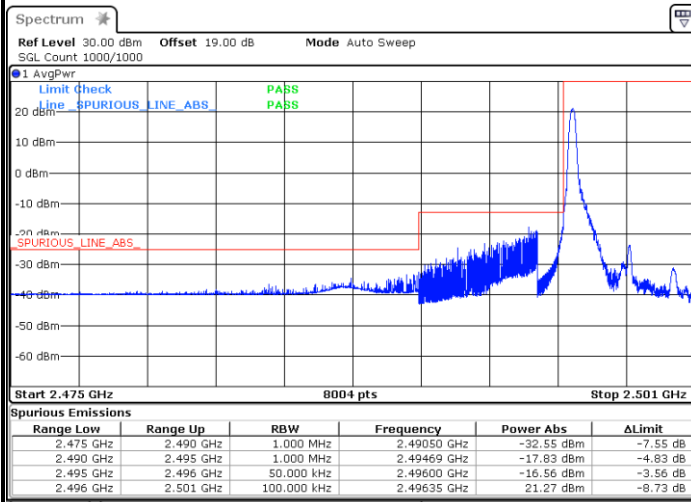
Highest Band Edge / Full RB



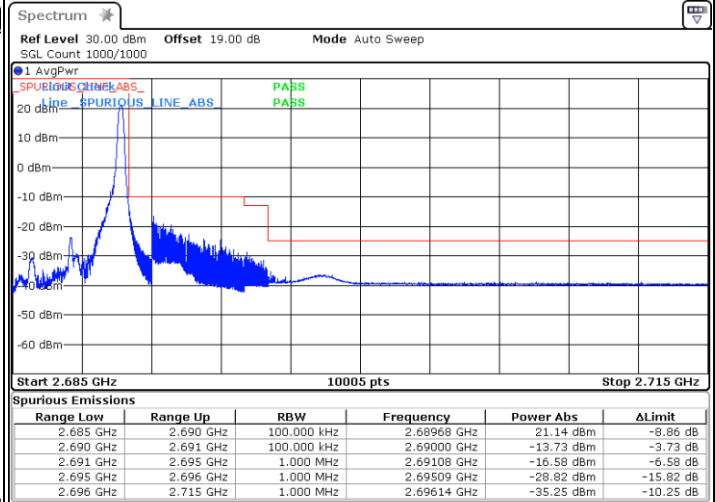


LTE Band 41 / 5MHz / 16QAM

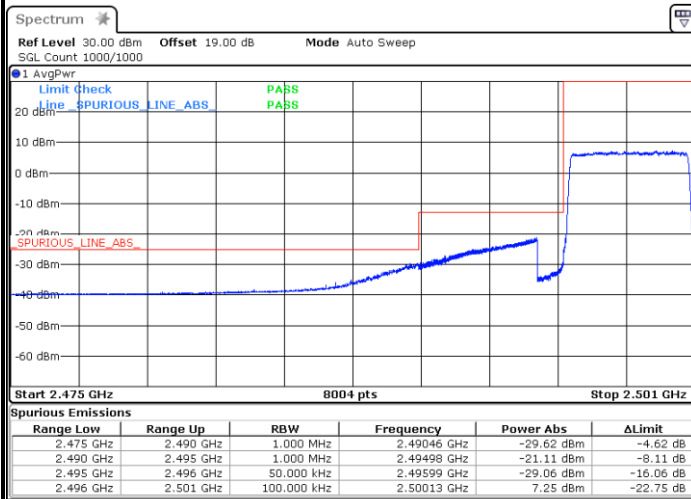
Lowest Band Edge / 1RB



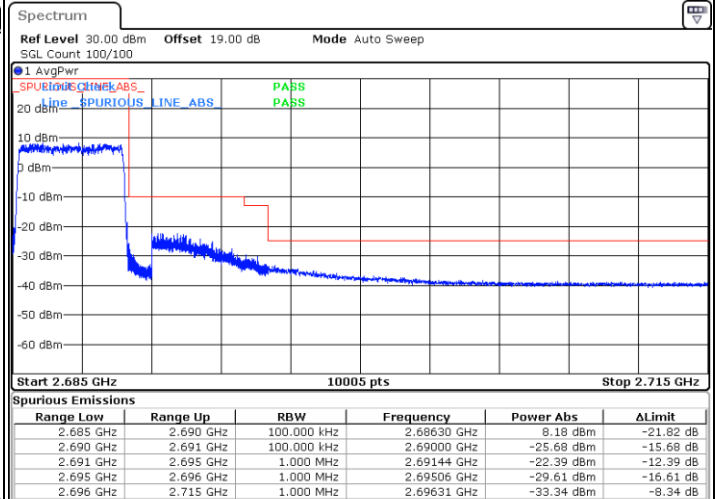
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



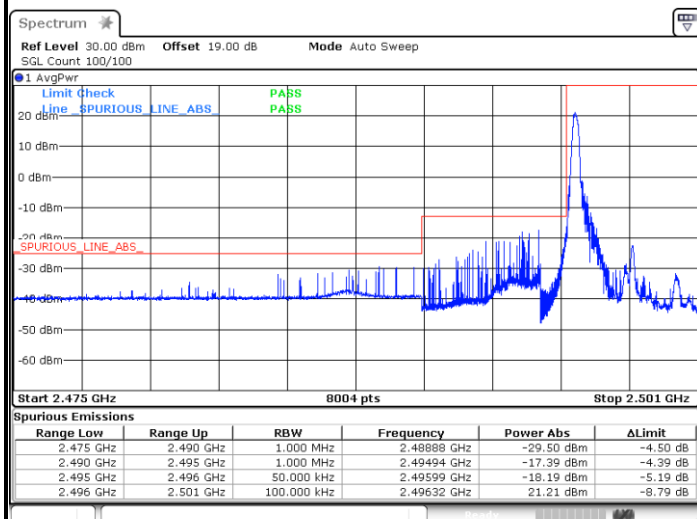
Highest Band Edge / Full RB



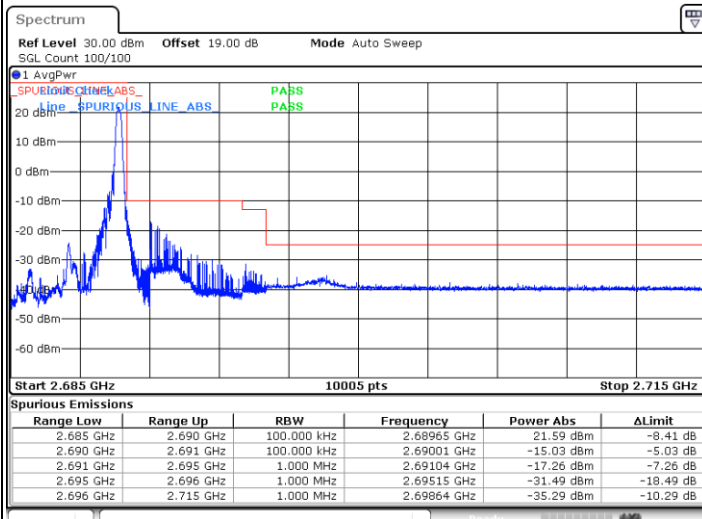


LTE Band 41 / 5MHz / 64QAM

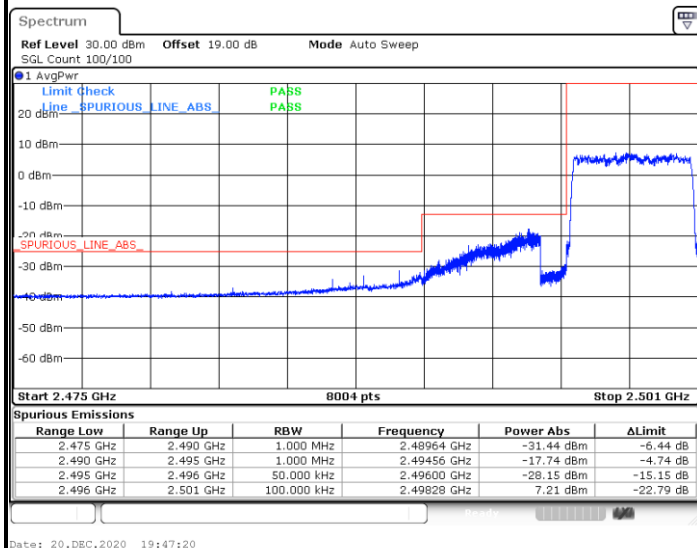
Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

