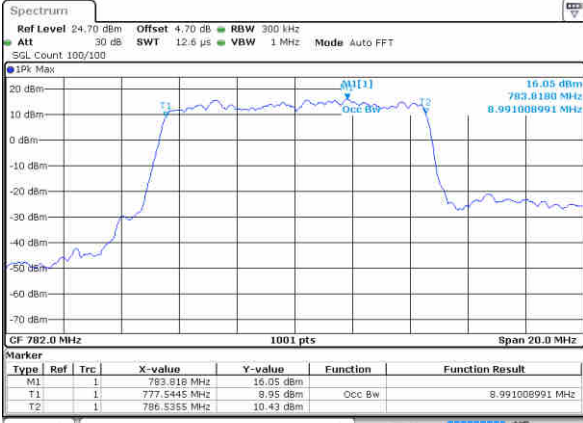




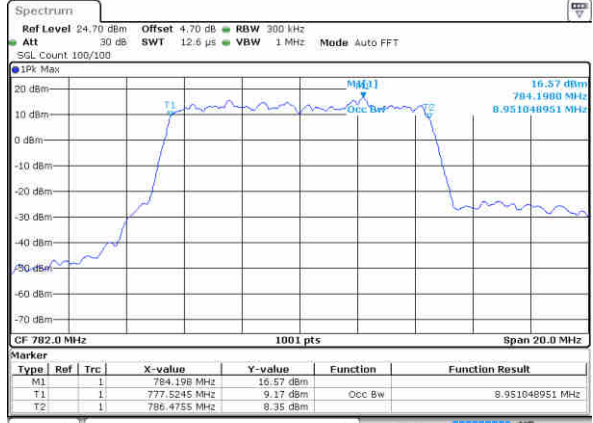
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 30 AUG 2020 10:12:03

Middle Channel / 10MHz / 16QAM

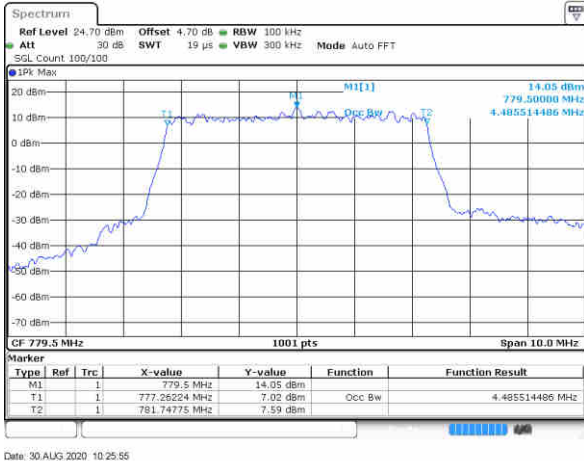


Date: 30 AUG 2020 10:12:13

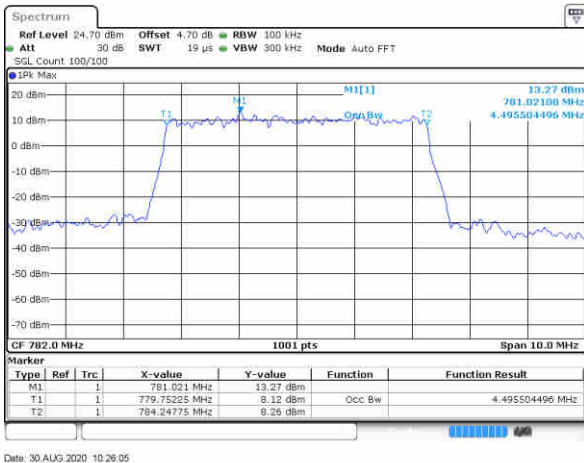


LTE Band 13

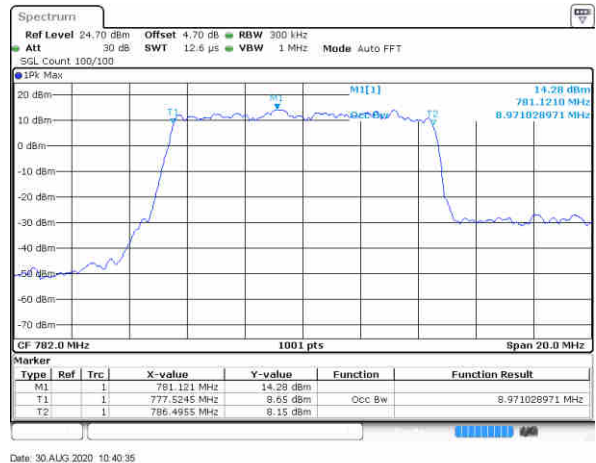
Lowest Channel / 5MHz / 64QAM



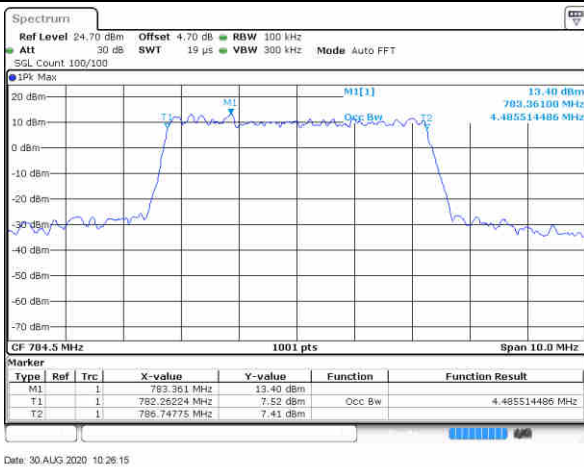
Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



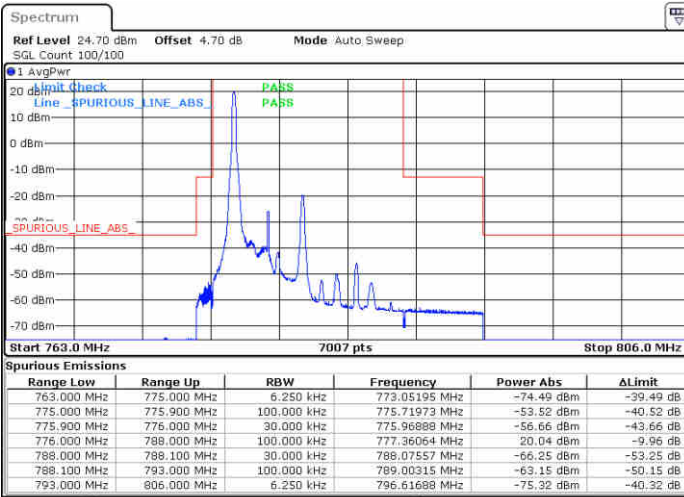


Conducted Band Edge

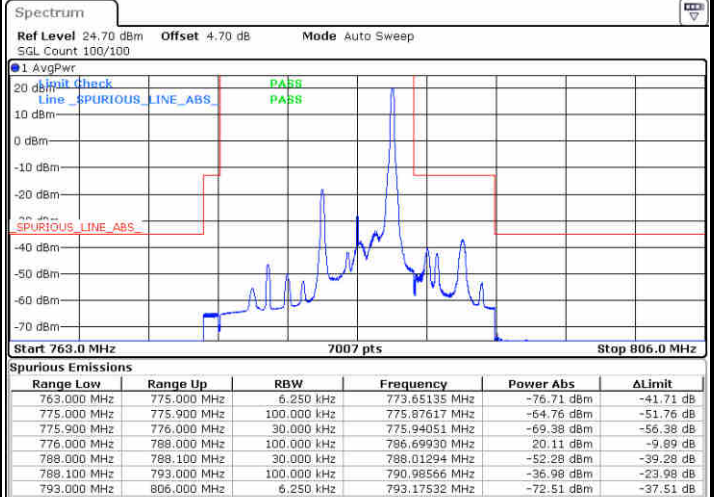
LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



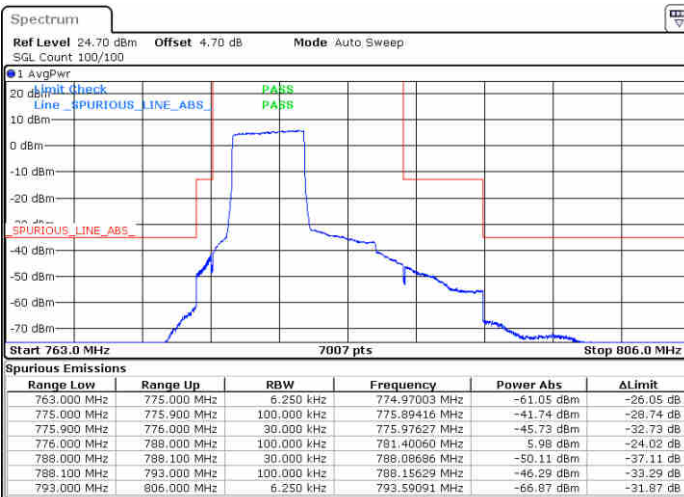
Date: 30 AUG 2020 09:50:21



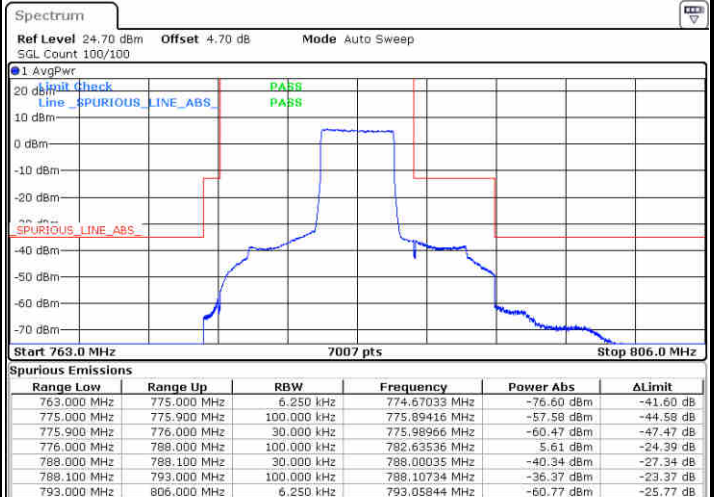
Date: 30 AUG 2020 10:01:50

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 30 AUG 2020 09:48:43



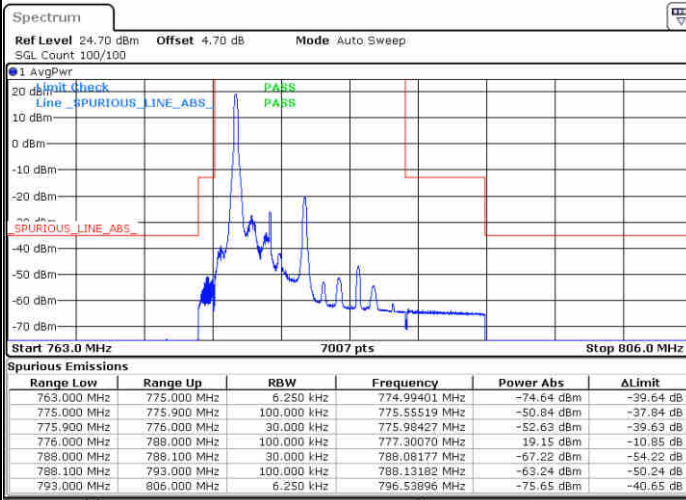
Date: 30 AUG 2020 10:00:12



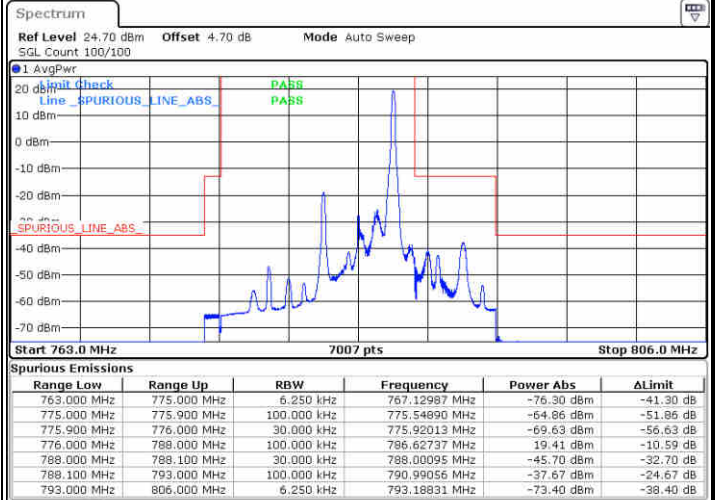
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



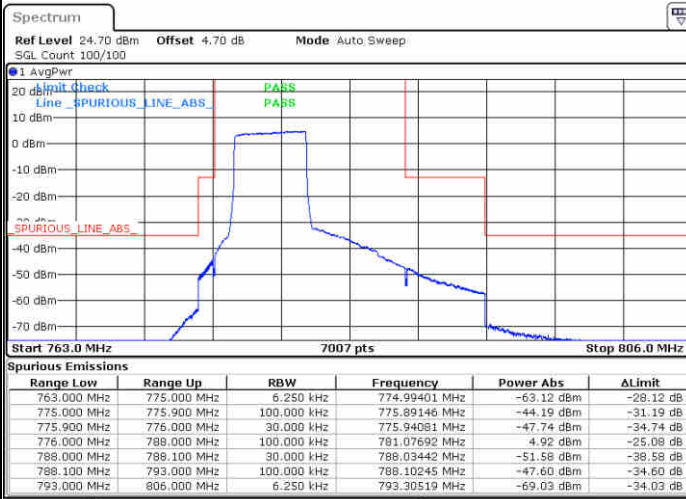
Date: 30 AUG 2020 09:51:59



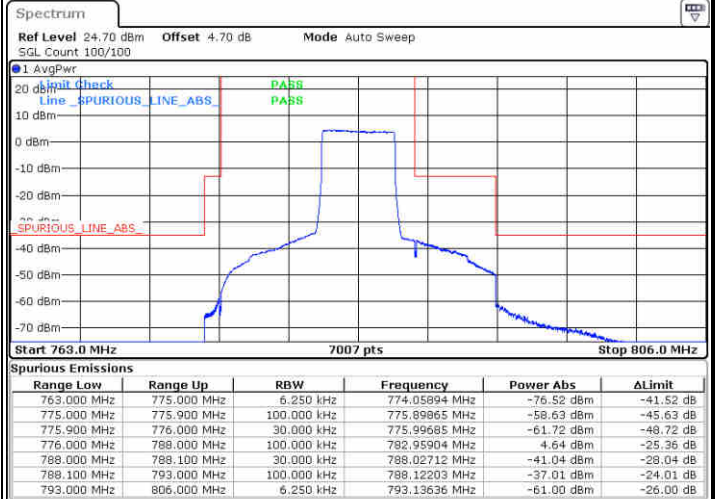
Date: 30 AUG 2020 10:03:28

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 30 AUG 2020 09:47:06



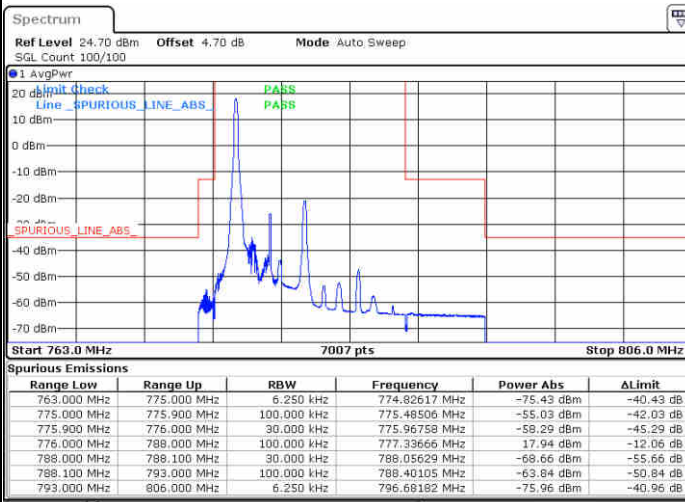
Date: 30 AUG 2020 09:58:35



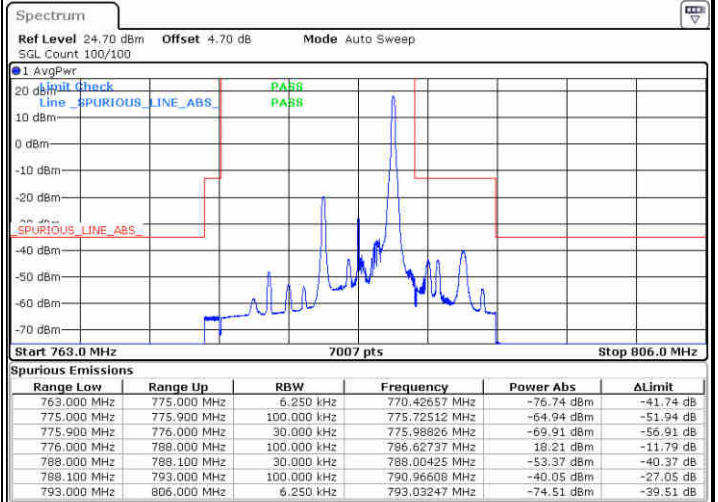
LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



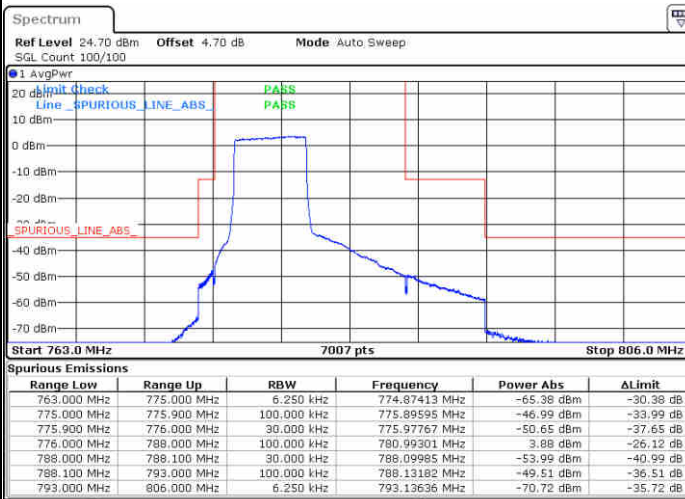
Date: 30 AUG 2020 10:28:23



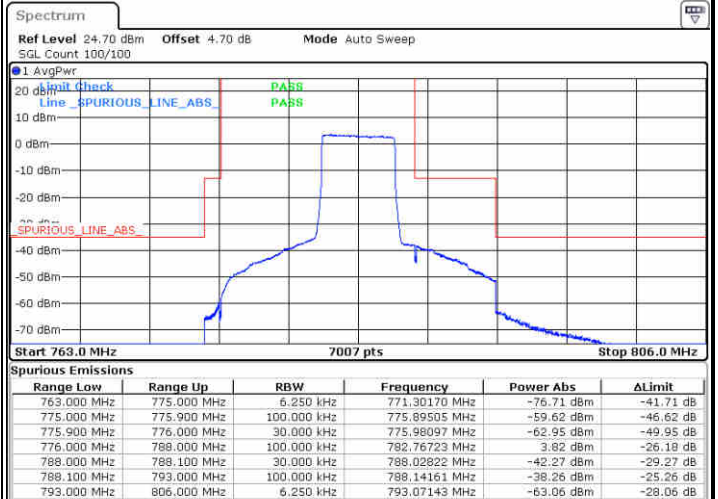
Date: 30 AUG 2020 10:33:16

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 30 AUG 2020 10:30:01

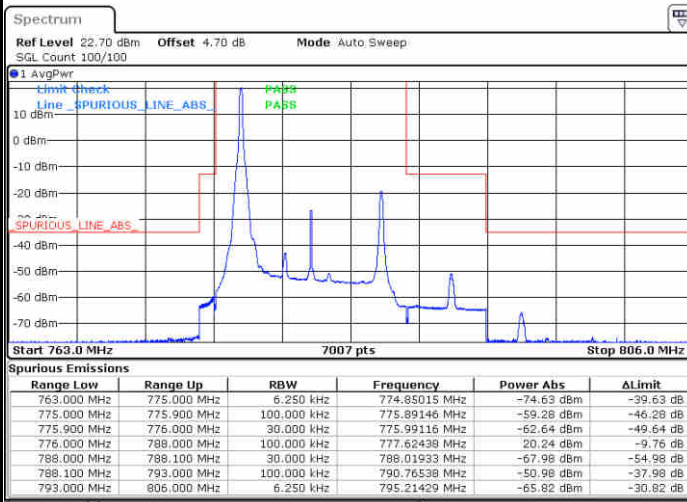


Date: 30 AUG 2020 10:31:39



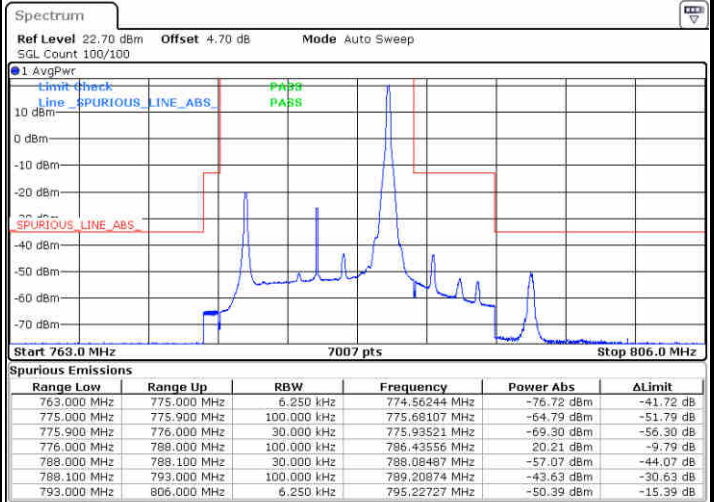
LTE Band 13 / 10MHz / QPSK

Edge / 1 RB0



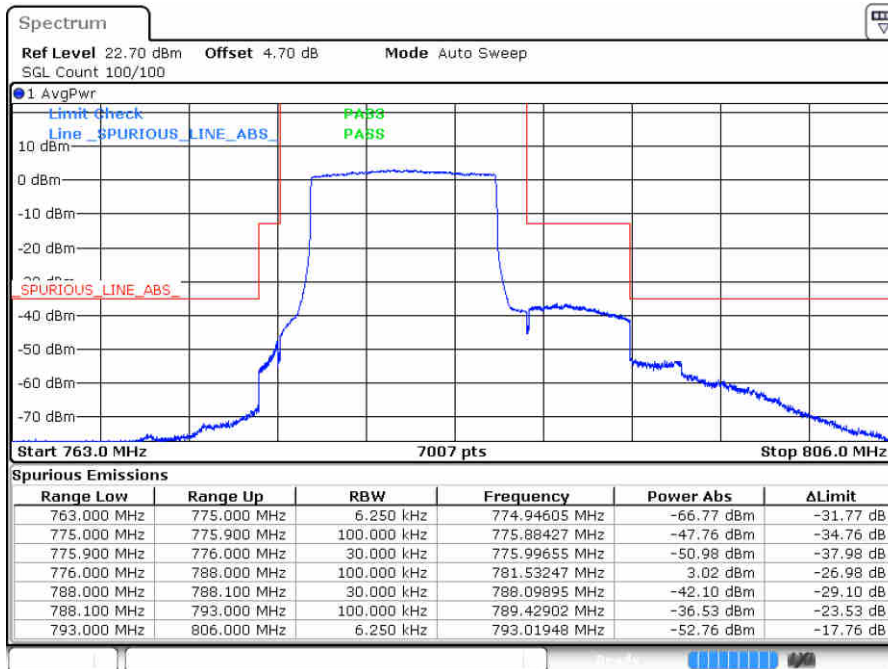
Date: 30 AUG 2020 10 15 29

Edge / 1 RBMAX



Date: 30 AUG 2020 10 22 00

Band Edge / Full RB



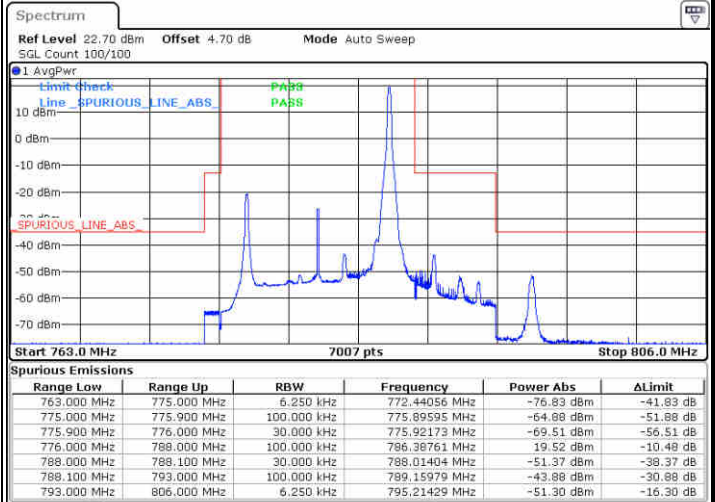
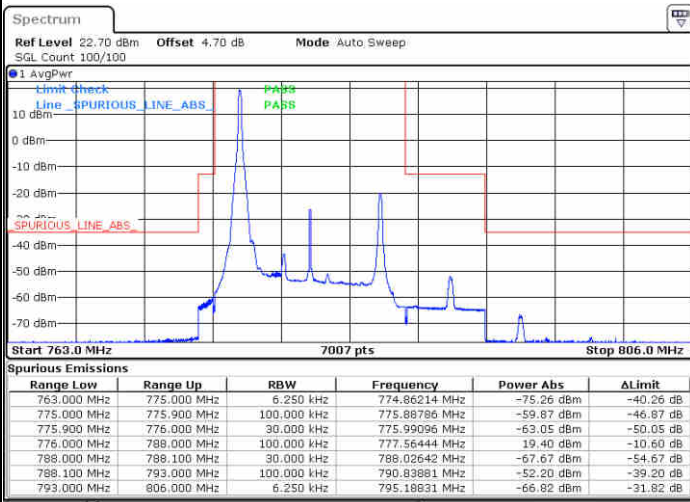
Date: 30 AUG 2020 10 17 07



LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB0

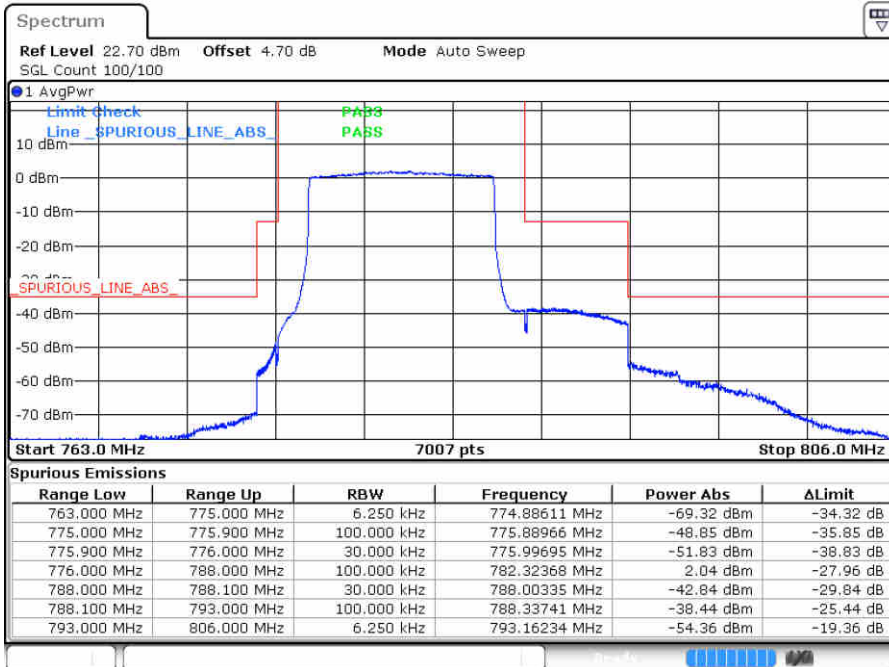
Highest Band Edge / 1 RBMAX



Date: 30 AUG 2020 10:13:51

Date: 30 AUG 2020 10:20:22

Band Edge / Full RB



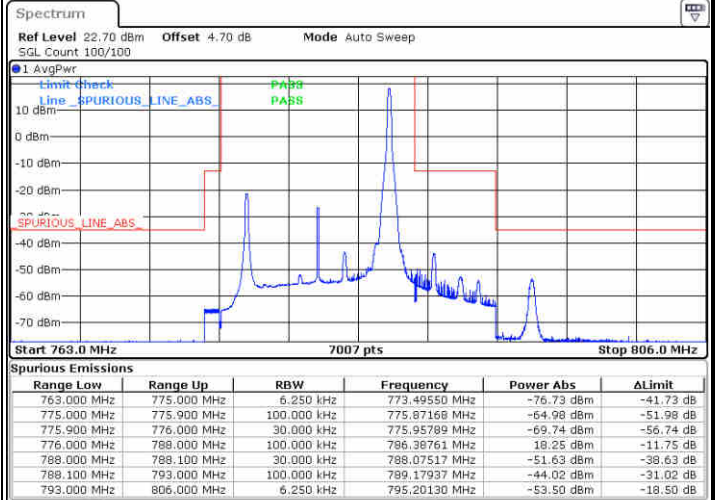
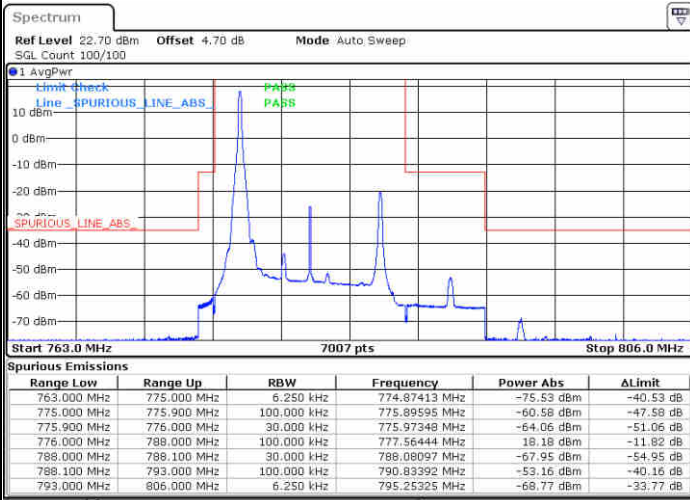
Date: 30 AUG 2020 10:18:44



LTE Band 13 / 10MHz / 64QAM

Edge / 1 RB

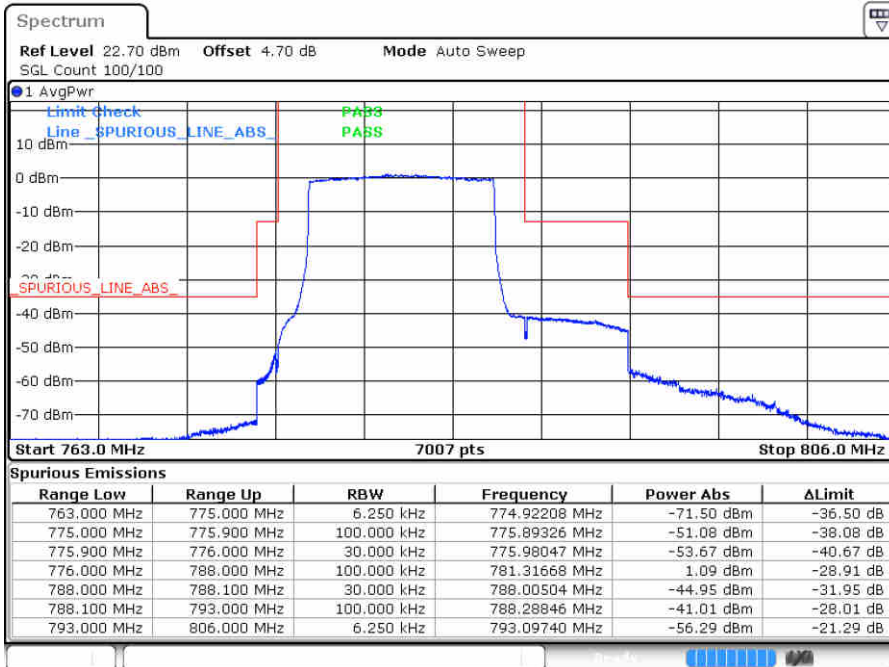
Edge / 1 RBMAX



Date: 30.AUG.2020 10:42:23

Date: 30.AUG.2020 10:44:00

Band Edge / Full RB

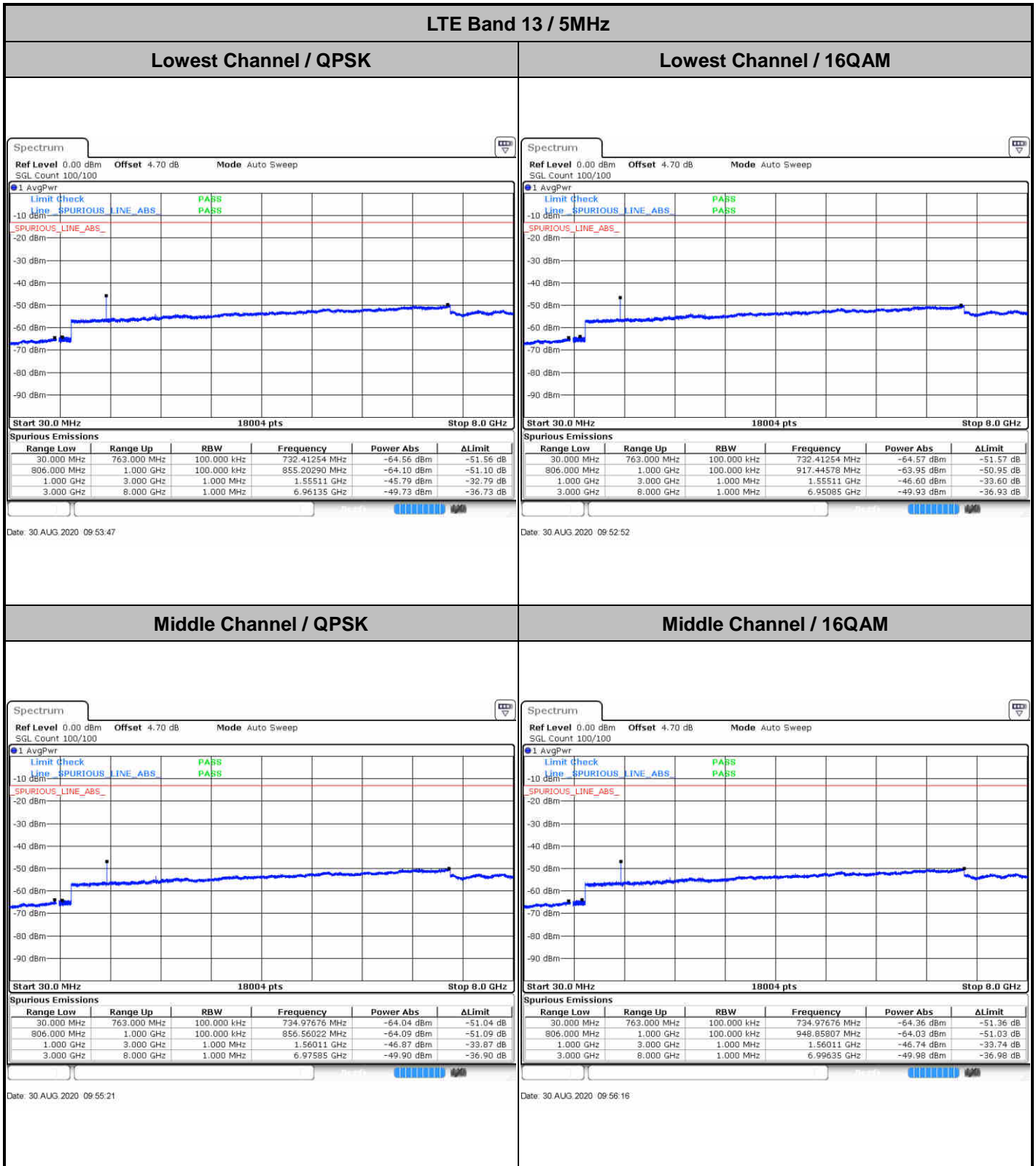


Date: 30.AUG.2020 10:45:38





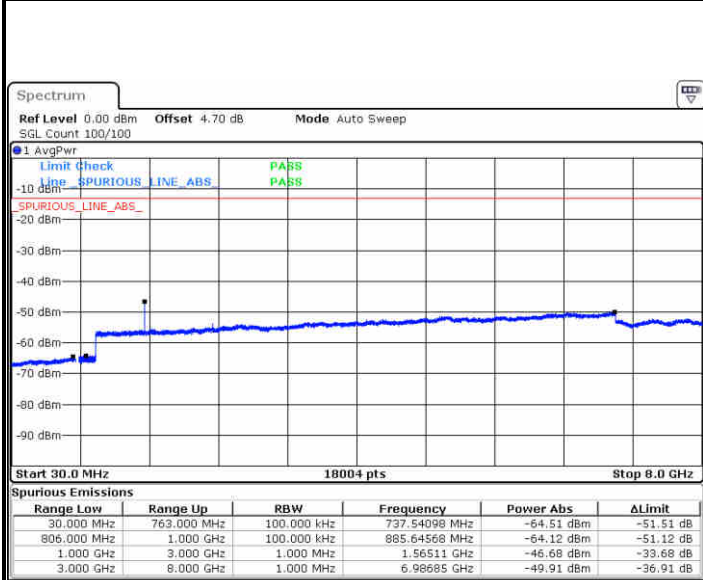
# Conducted Spurious Emission





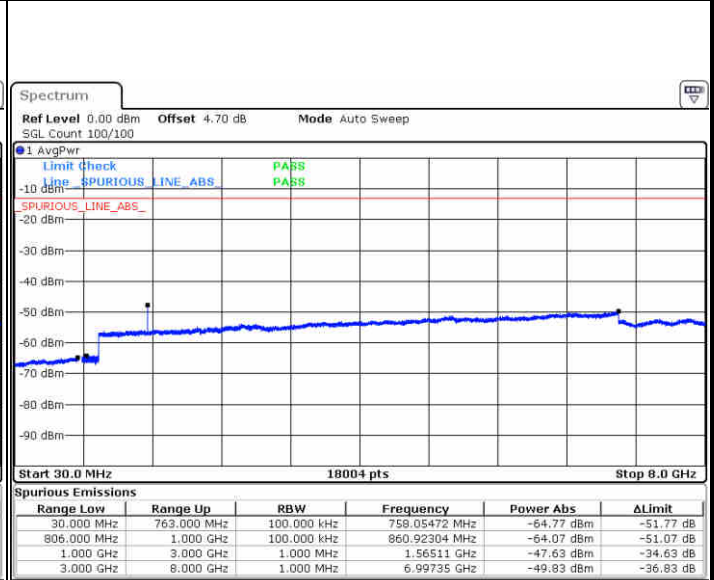
LTE Band 13 / 5MHz

Highest Channel / QPSK



Date: 30 AUG 2020 10:05:16

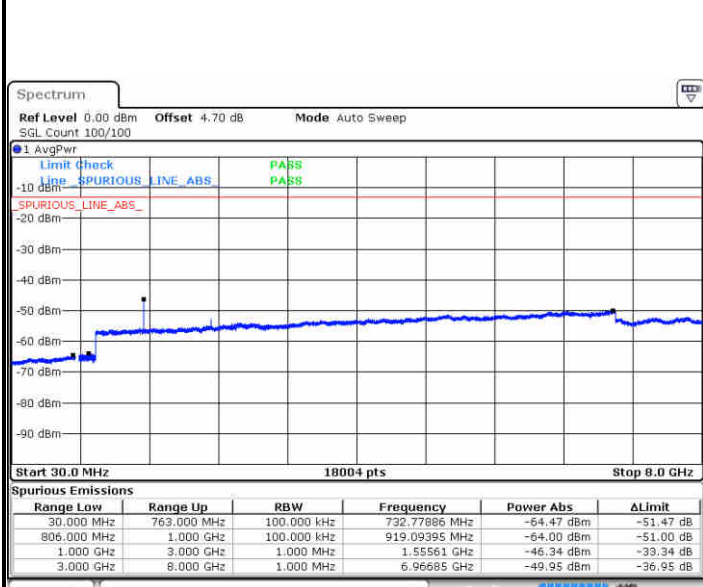
Highest Channel / 16QAM



Date: 30 AUG 2020 10:04:21

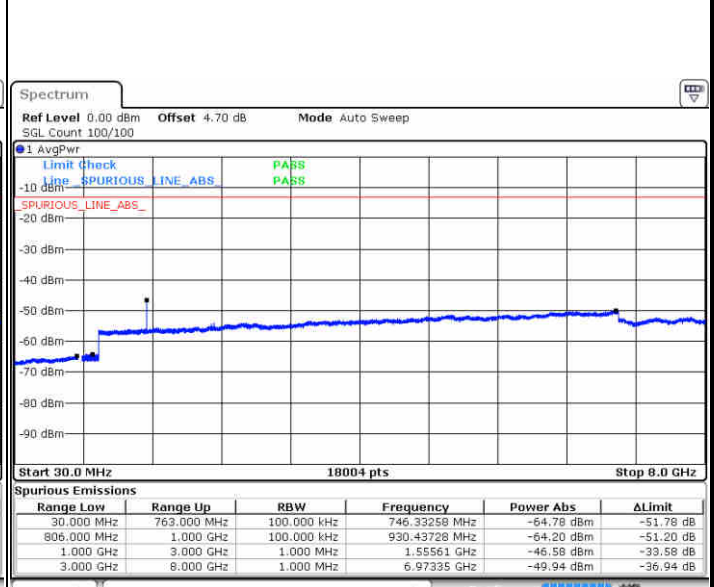
LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 30 AUG 2020 10:10:38

Middle Channel / 16QAM

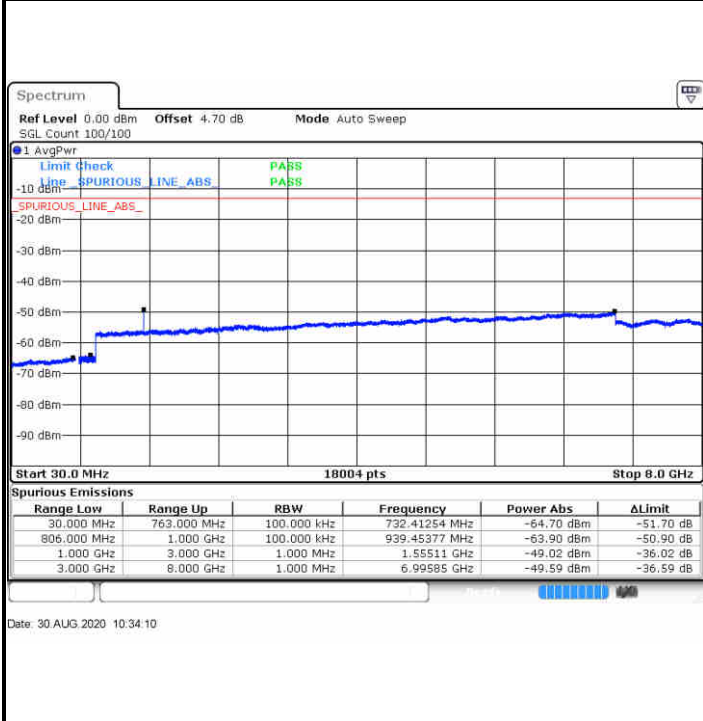


Date: 30 AUG 2020 10:11:33

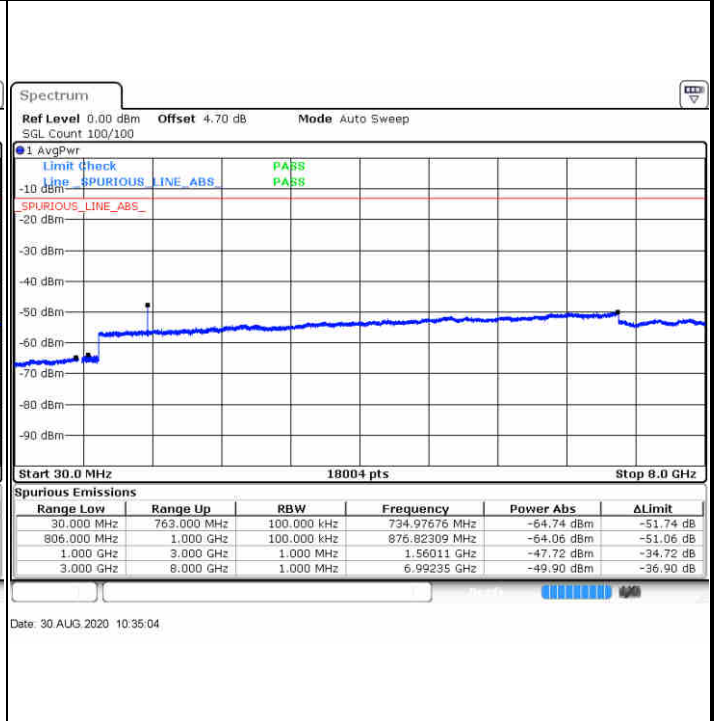


**LTE Band 13 / 5MHz**

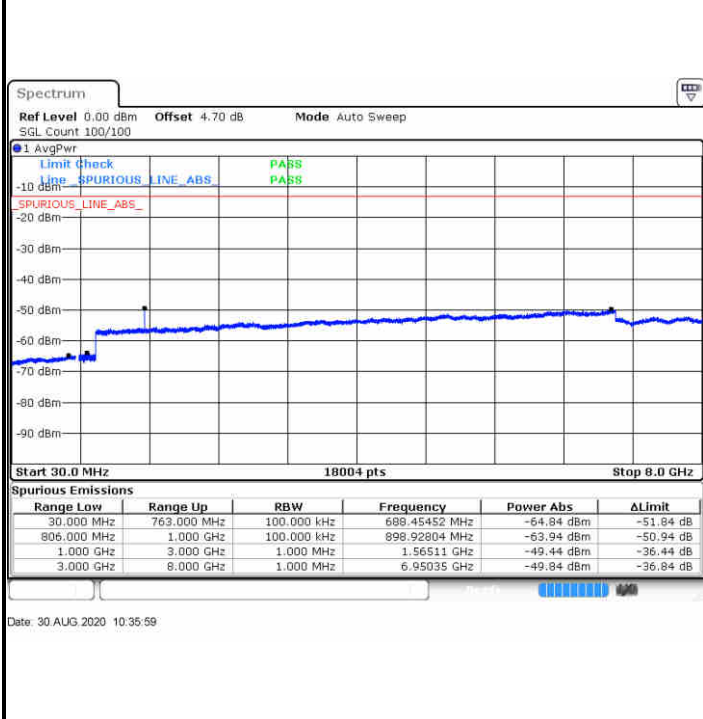
**Lowest Channel / 64QAM**

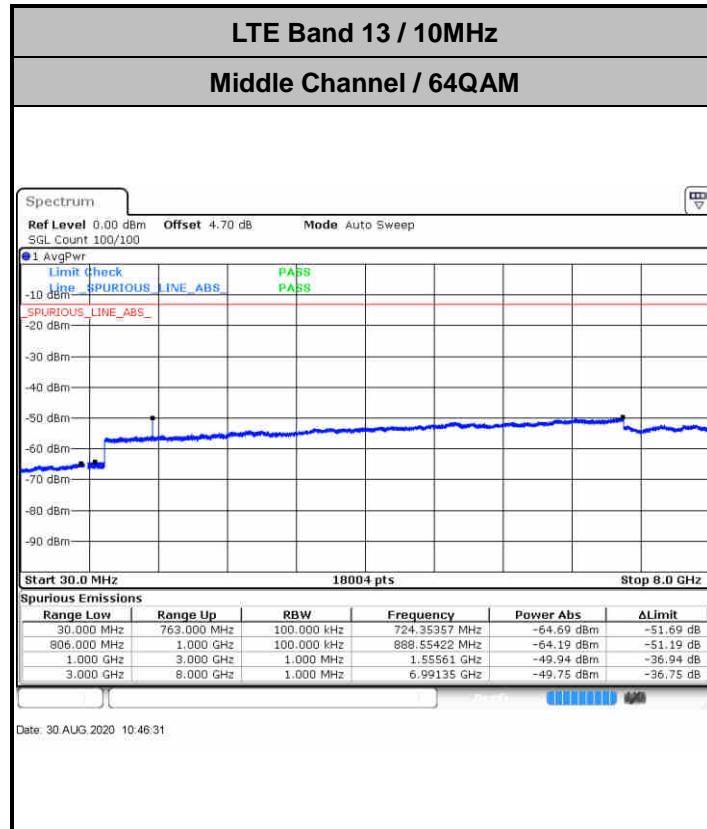


**Middle Channel / 64QAM**



**Highest 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	0.0036	PASS
40	Normal Voltage	0.0001	
30	Normal Voltage	0.0047	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0054	
0	Normal Voltage	0.0025	
-10	Normal Voltage	0.0010	
-20	Normal Voltage	0.0058	
-30	Normal Voltage	0.0066	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0046	

**Note:**

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 41

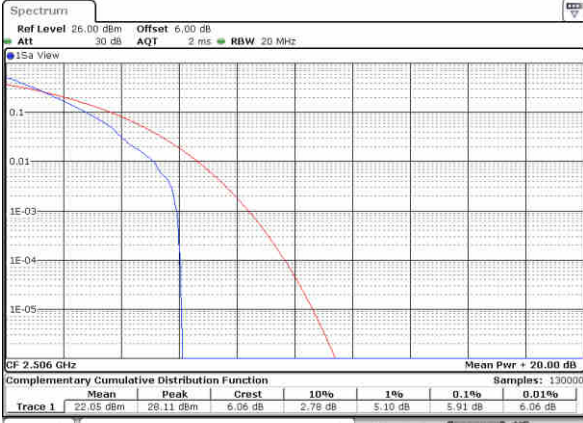
## Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	5.91	6.55	7.45	12.26	PASS
Middle CH	6.23	6.23	7.86	6.49	
Highest CH	5.83	7.54	7.94	7.13	
Mode	LTE Band 41 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.70	6.58	-	-	PASS
Middle CH	7.91	7.42	-	-	
Highest CH	6.90	7.04	-	-	



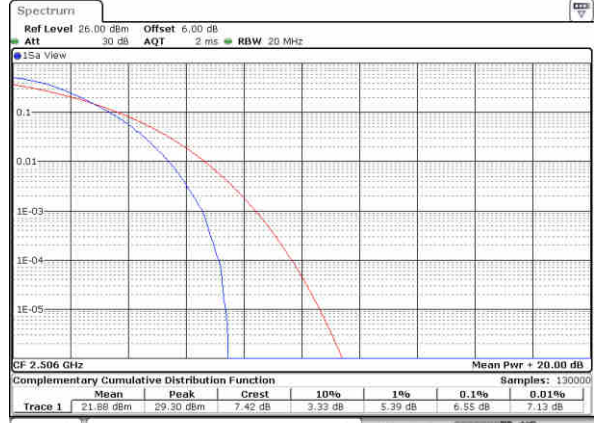
LTE Band 41 / 20MHz / QPSK

Lowest Channel / 1RB



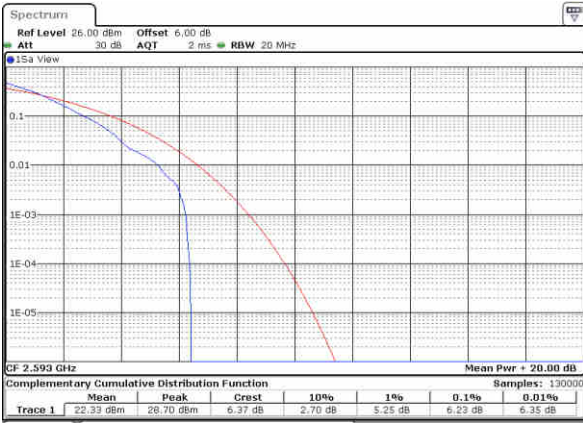
Date: 5,SEP,2020 14:11:24

Lowest Channel / Full RB



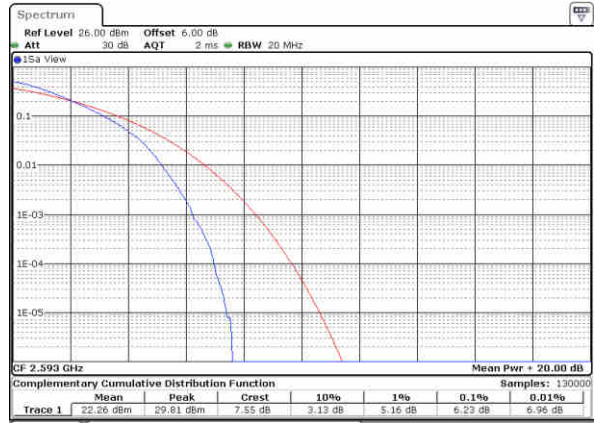
Date: 5,SEP,2020 14:13:42

Middle Channel / 1RB



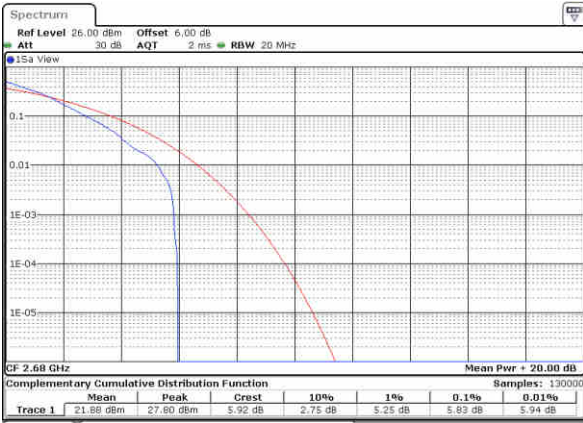
Date: 5,SEP,2020 14:17:15

Middle Channel / Full RB



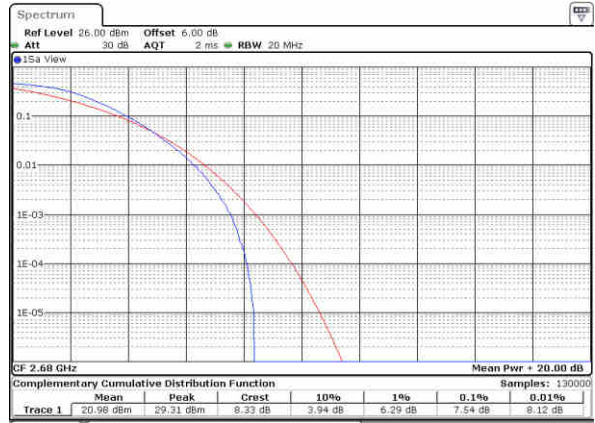
Date: 5,SEP,2020 14:14:32

Highest Channel / 1RB



Date: 5,SEP,2020 14:17:56

Highest Channel / Full RB

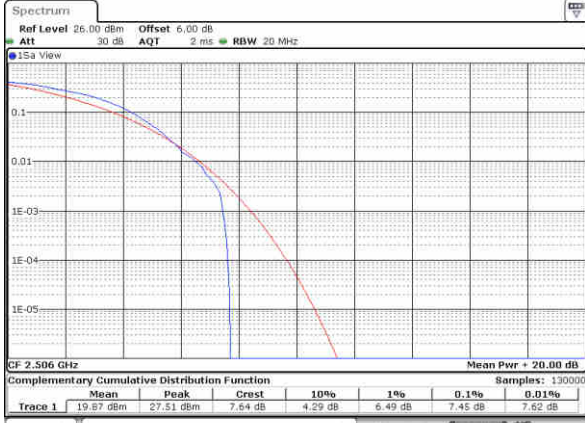


Date: 5,SEP,2020 14:15:34



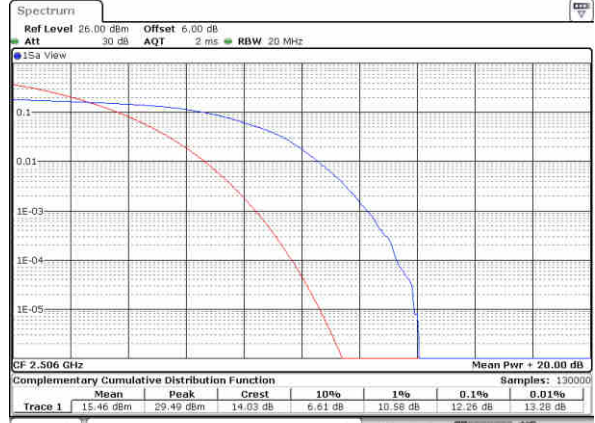
LTE Band 41 / 20MHz / 16QAM

Lowest Channel / 1RB



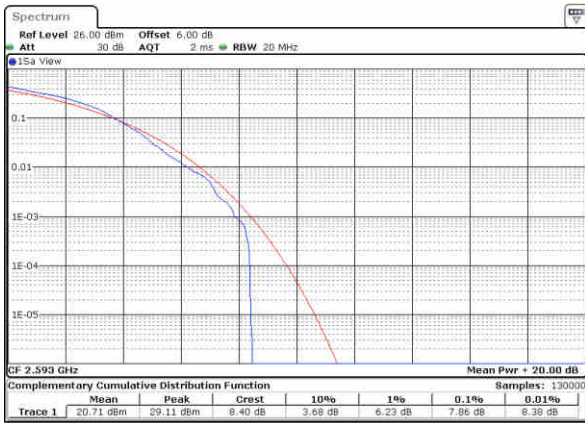
Date: 5,SEP,2020 14:11:34

Lowest Channel / Full RB



Date: 5,SEP,2020 14:13:52

Middle Channel / 1RB



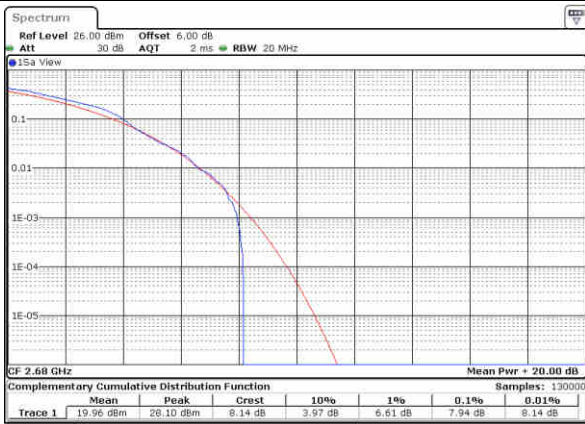
Date: 5,SEP,2020 14:17:33

Middle Channel / Full RB



Date: 5,SEP,2020 14:14:32

Highest Channel / 1RB



Date: 5,SEP,2020 14:18:16

Highest Channel / Full RB



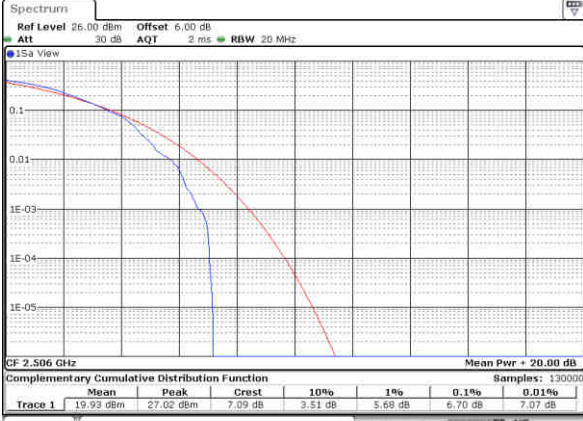
Date: 5,SEP,2020 14:15:50





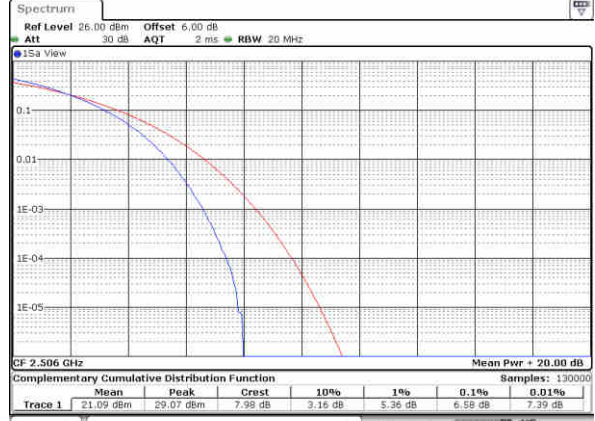
LTE Band 41 / 20MHz / 64QAM

Lowest Channel / 1RB



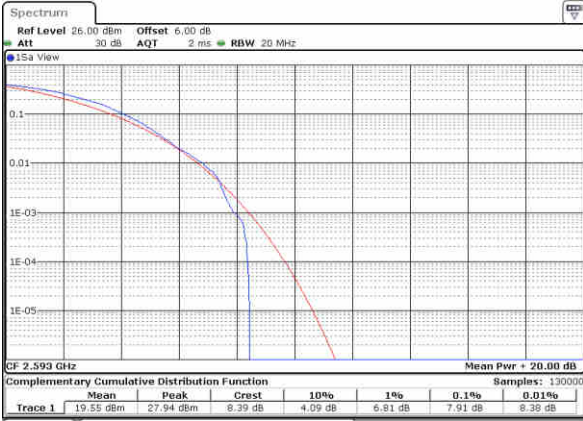
Date: 5,SEP,2020 14:16:56

Lowest Channel / Full RB



Date: 5,SEP,2020 14:16:02

Middle Channel / 1RB



Date: 5,SEP,2020 14:17:46

Middle Channel / Full RB



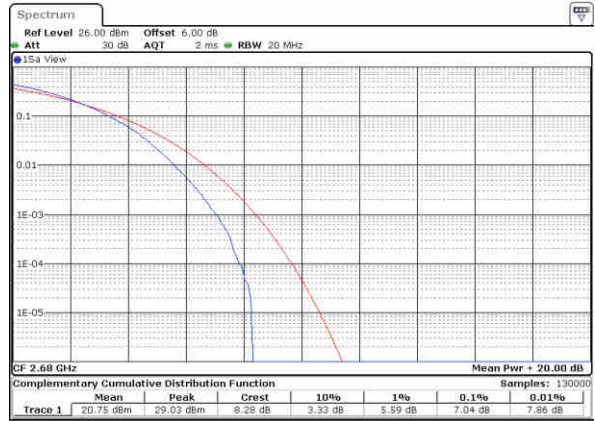
Date: 5,SEP,2020 14:18:02

Highest Channel / 1RB



Date: 5,SEP,2020 14:18:25

Highest Channel / Full RB



Date: 5,SEP,2020 14:18:06



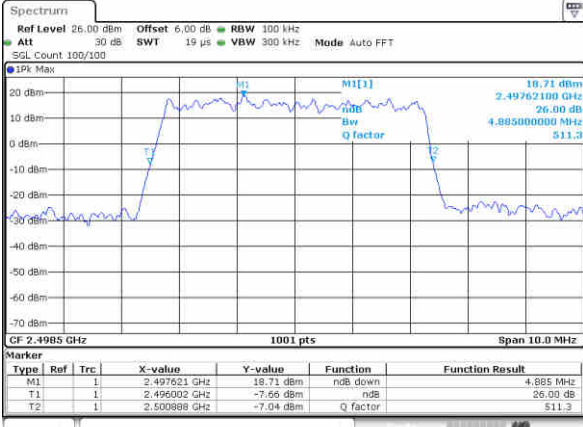
**26dB Bandwidth**

Mode	LTE Band 41 : 26dB BW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	4.89	4.78	9.69	9.81	14.27	14.12	20.06	20.06
Middle CH	4.82	4.83	9.75	9.61	14.51	14.09	20.22	20.18
Highest CH	4.90	4.90	9.83	9.63	14.45	14.18	20.06	20.06
Mode	LTE Band 41 : 26dB BW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM	
Lowest CH	4.89		9.79		14.15		20.14	
Middle CH	4.78		9.61		14.12		20.14	
Highest CH	4.99		9.69		14.18		20.06	



LTE Band 41

Lowest Channel / 5MHz / QPSK



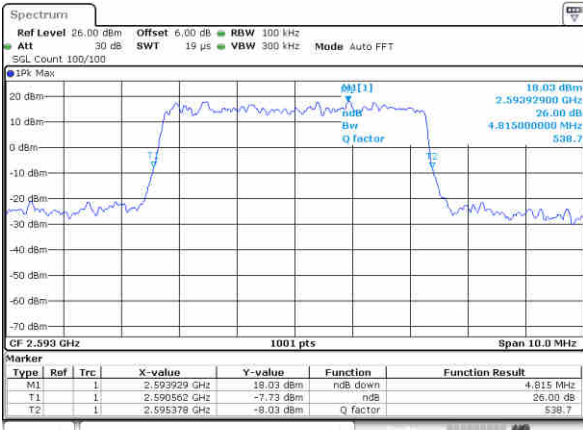
Date: 5,SEP,2020 14:00:16

Lowest Channel / 5MHz / 16QAM



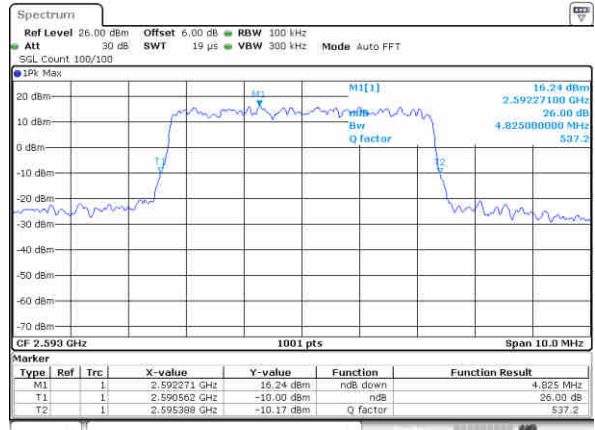
Date: 5,SEP,2020 14:00:26

Middle Channel / 5MHz / QPSK



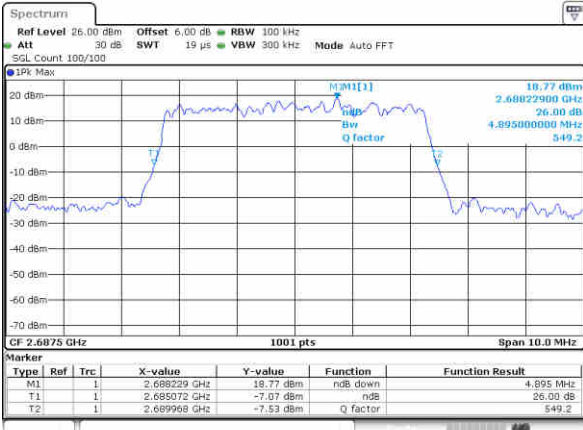
Date: 5,SEP,2020 14:01:06

Middle Channel / 5MHz / 16QAM



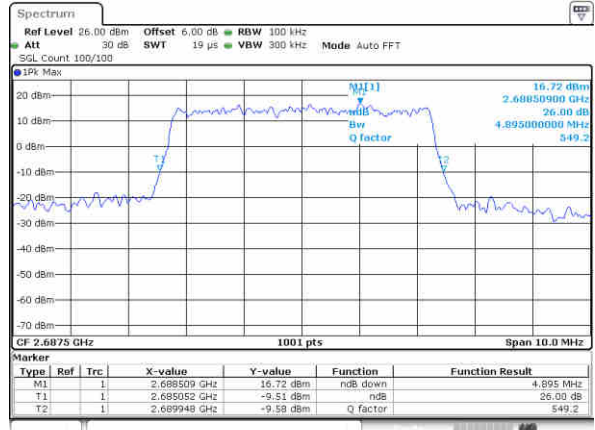
Date: 5,SEP,2020 14:01:26

Highest Channel / 5MHz / QPSK



Date: 5,SEP,2020 14:02:16

Highest Channel / 5MHz / 16QAM

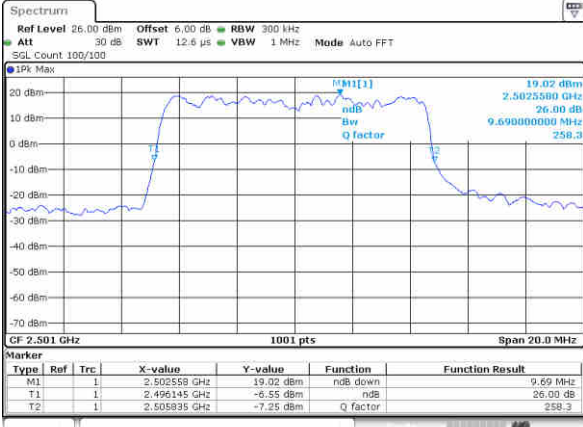


Date: 5,SEP,2020 14:02:26



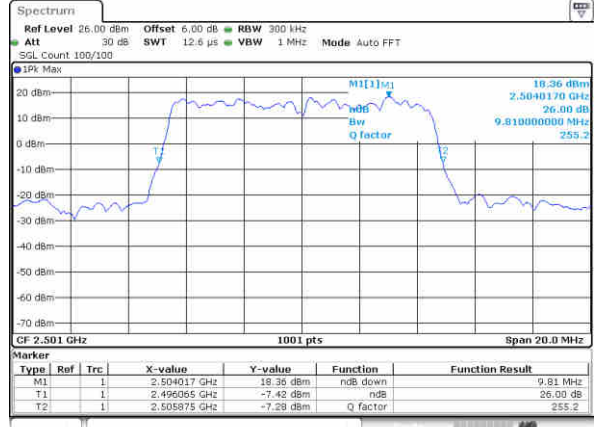
LTE Band 41

Lowest Channel / 10MHz / QPSK



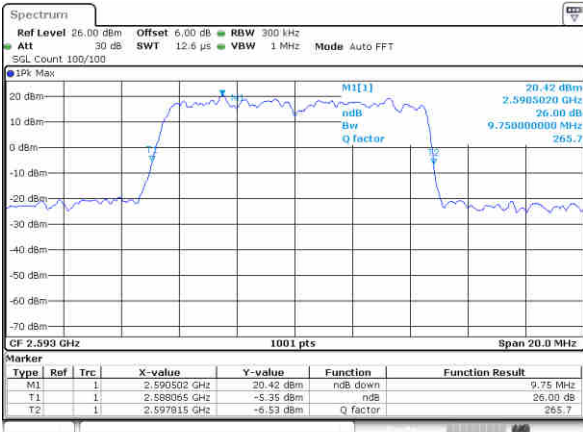
Date: 5,SEP,2020 14:04:00

Lowest Channel / 10MHz / 16QAM



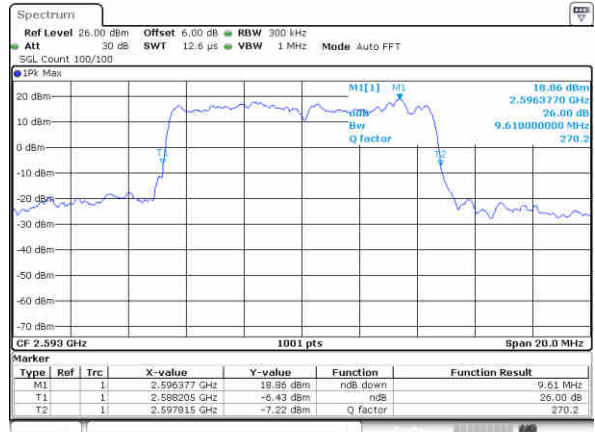
Date: 5,SEP,2020 14:04:20

Middle Channel / 10MHz / QPSK



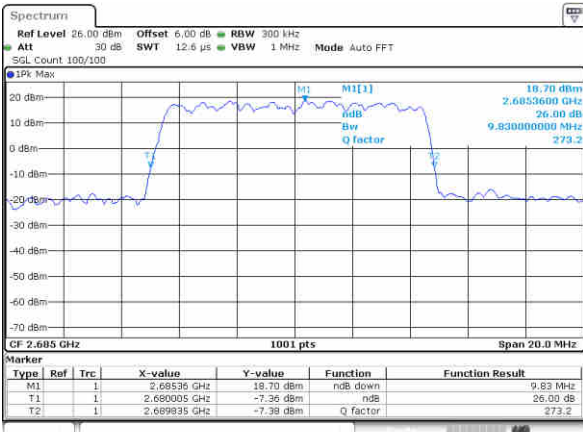
Date: 5,SEP,2020 14:05:00

Middle Channel / 10MHz / 16QAM



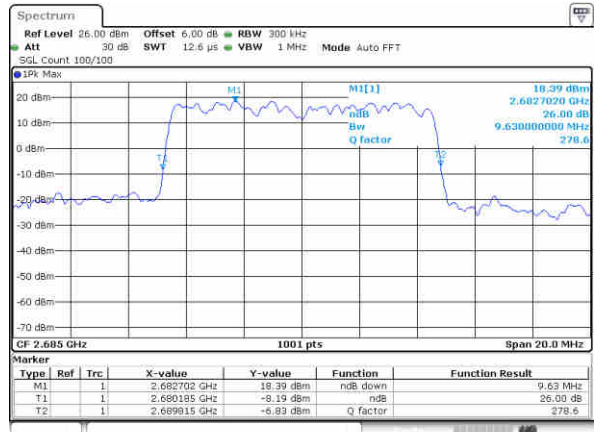
Date: 5,SEP,2020 14:05:20

Highest Channel / 10MHz / QPSK



Date: 5,SEP,2020 14:06:00

Highest Channel / 10MHz / 16QAM

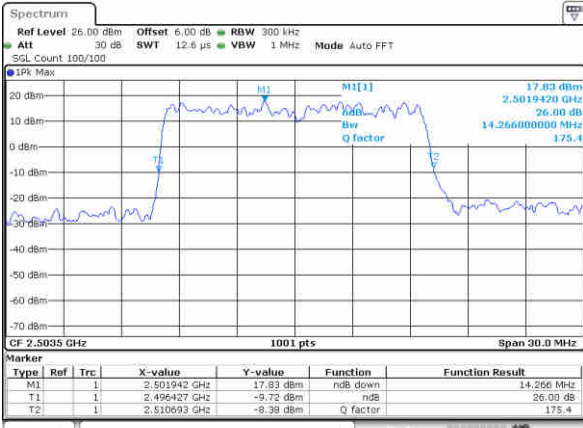


Date: 5,SEP,2020 14:06:21



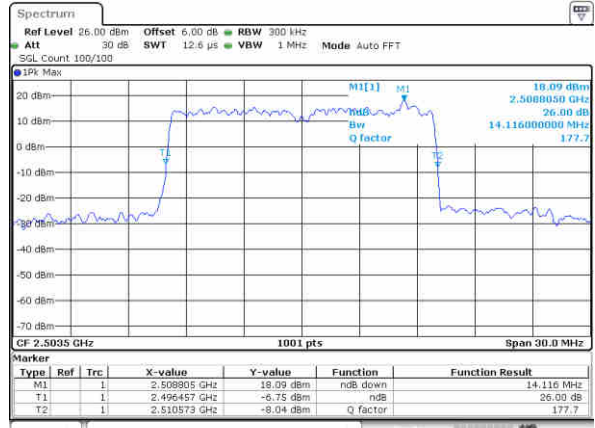
LTE Band 41

Lowest Channel / 15MHz / QPSK



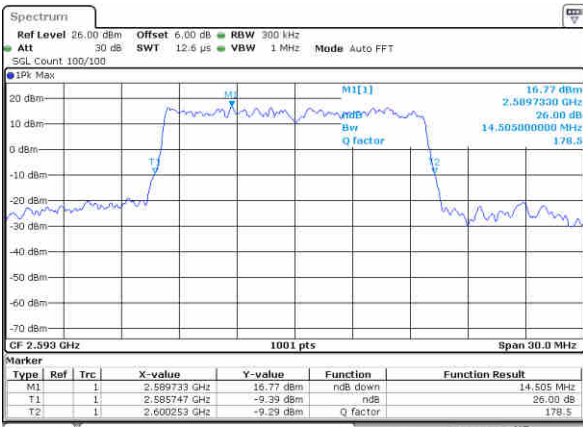
Date: 5\_SEP\_2020 14:07:126

Lowest Channel / 15MHz / 16QAM



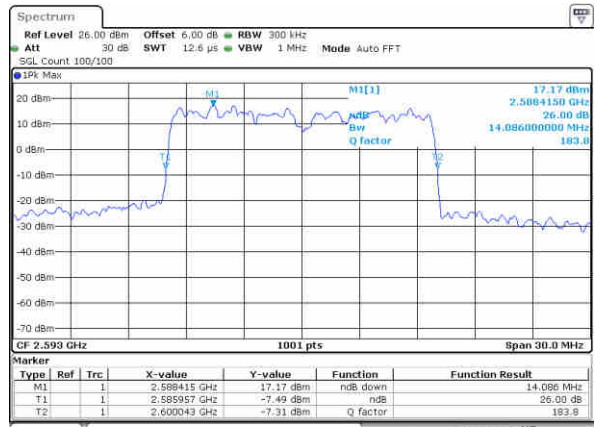
Date: 5\_SEP\_2020 14:07:146

Middle Channel / 15MHz / QPSK



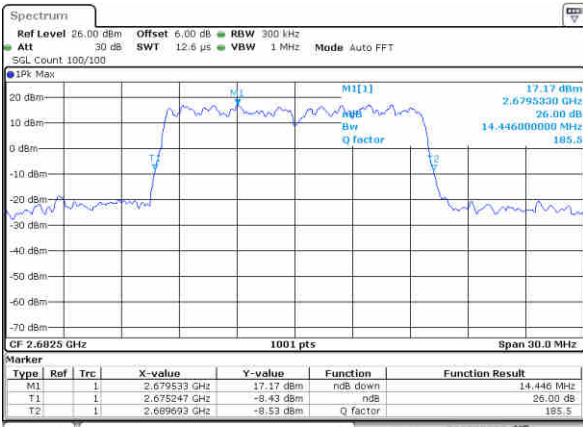
Date: 5\_SEP\_2020 14:08:226

Middle Channel / 15MHz / 16QAM



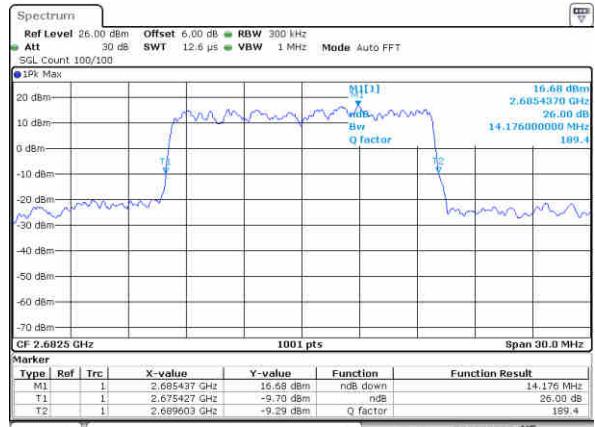
Date: 5\_SEP\_2020 14:08:246

Highest Channel / 15MHz / QPSK



Date: 5\_SEP\_2020 14:09:226

Highest Channel / 15MHz / 16QAM

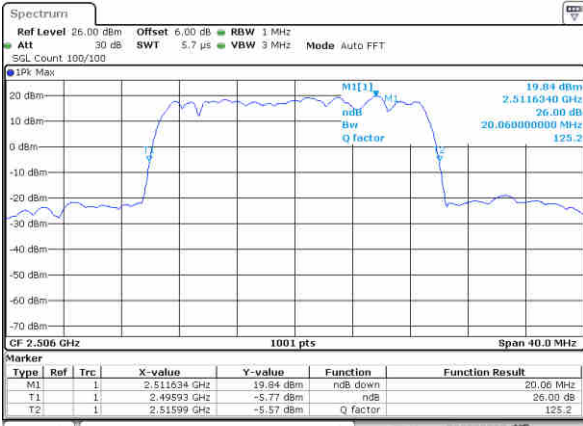


Date: 5\_SEP\_2020 14:09:246



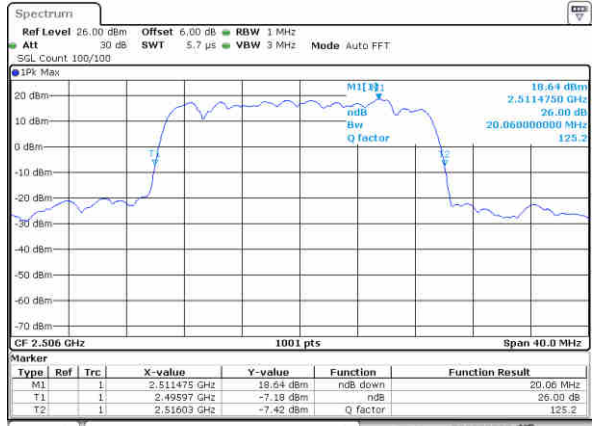
LTE Band 41

Lowest Channel / 20MHz / QPSK



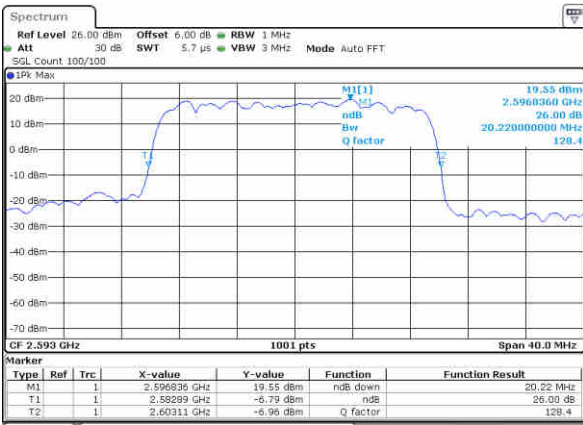
Date: 5,SEP,2020 14:10:49

Lowest Channel / 20MHz / 16QAM



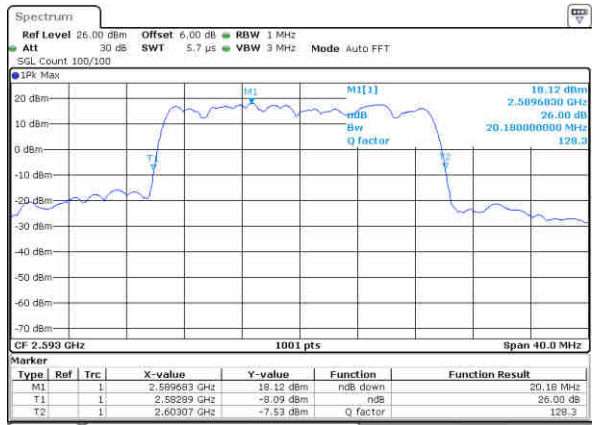
Date: 5,SEP,2020 14:11:09

Middle Channel / 20MHz / QPSK



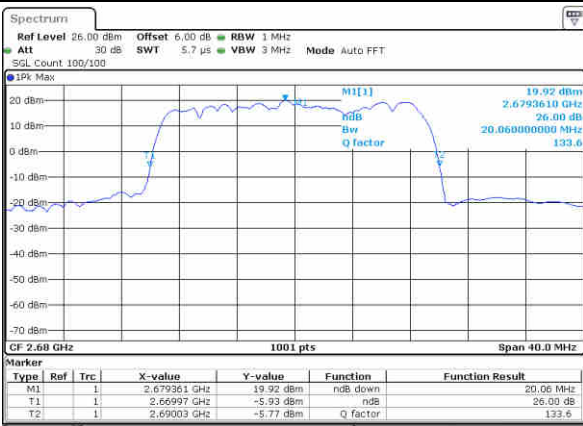
Date: 5,SEP,2020 14:11:49

Middle Channel / 20MHz / 16QAM



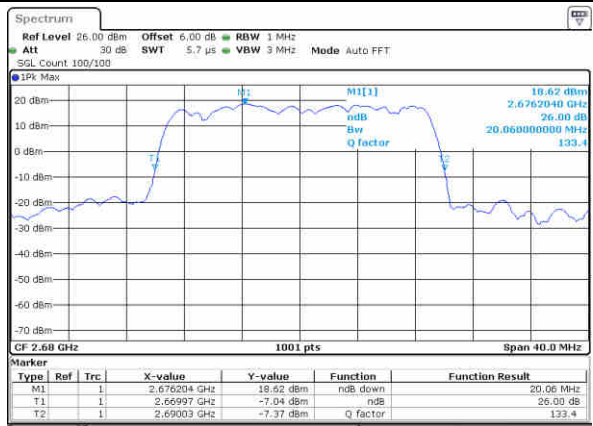
Date: 5,SEP,2020 14:12:09

Highest Channel / 20MHz / QPSK



Date: 5,SEP,2020 14:12:50

Highest Channel / 20MHz / 16QAM

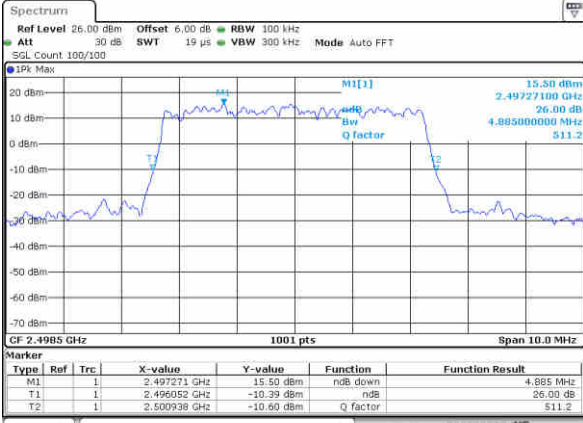


Date: 5,SEP,2020 14:13:10



LTE Band 41

Lowest Channel / 5MHz / 64QAM



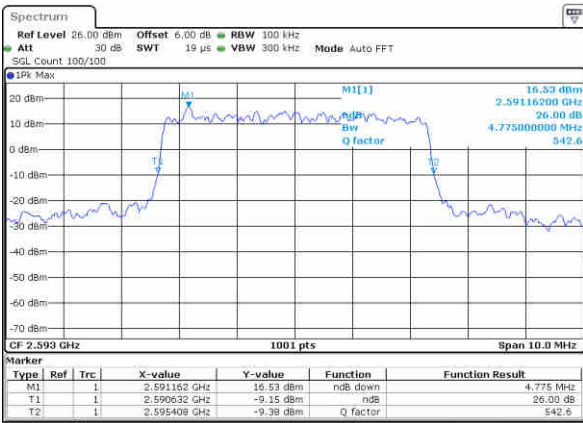
Date: 5,SEP,2020 14:00:46

Lowest Channel / 10MHz / 64QAM



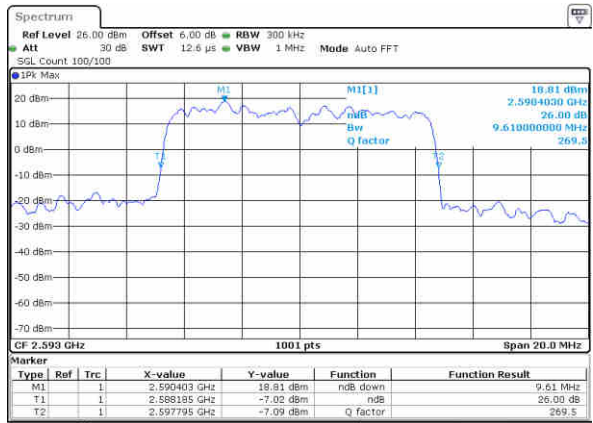
Date: 5,SEP,2020 14:00:46

Middle Channel / 5MHz / 64QAM



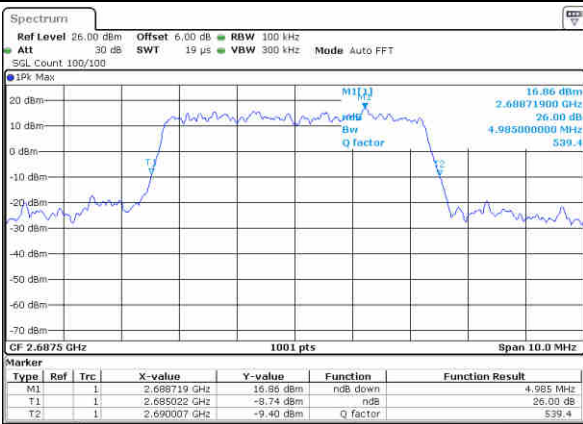
Date: 5,SEP,2020 14:00:46

Middle Channel / 10MHz / 64QAM



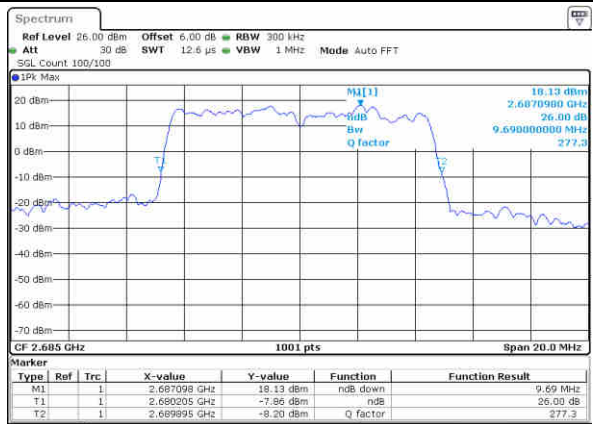
Date: 5,SEP,2020 14:00:46

Highest Channel / 5MHz / 64QAM



Date: 5,SEP,2020 14:00:46

Highest Channel / 10MHz / 64QAM

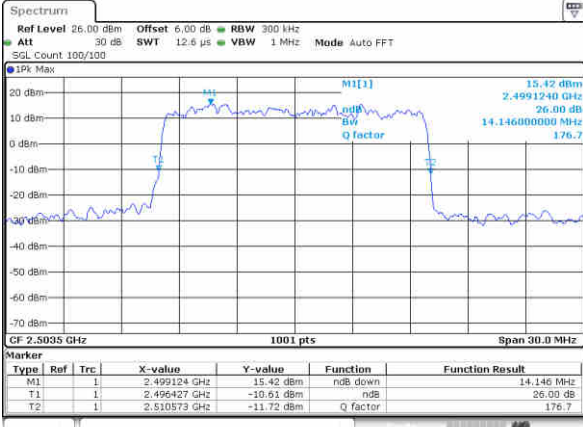


Date: 5,SEP,2020 14:00:46



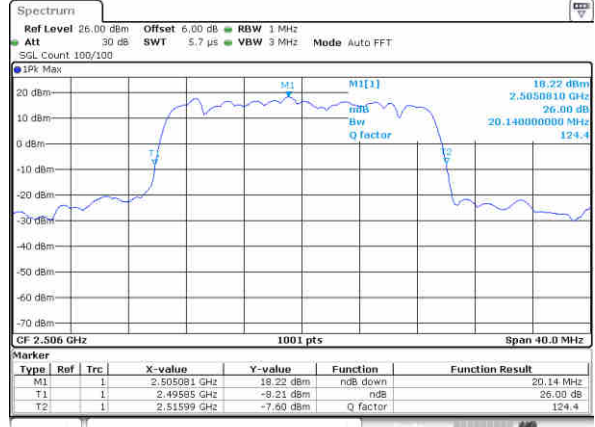
LTE Band 41

Lowest Channel / 15MHz / 64QAM



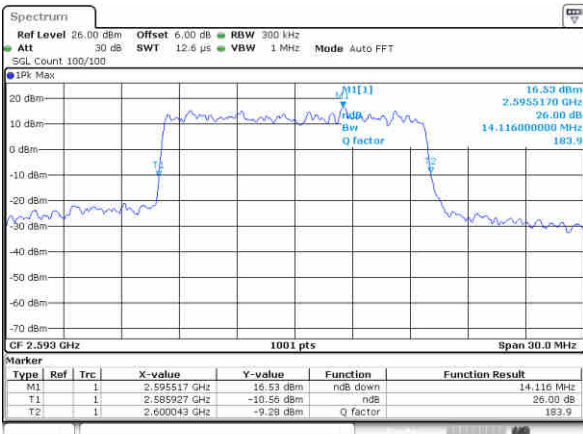
Date: 5,SEP,2020 14:08:06

Lowest Channel / 20MHz / 64QAM



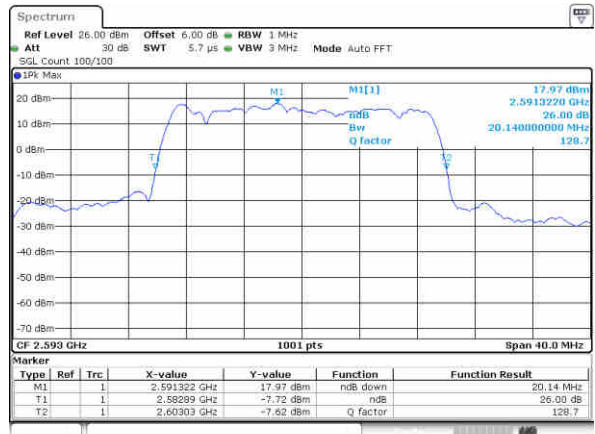
Date: 5,SEP,2020 14:11:29

Middle Channel / 15MHz / 64QAM



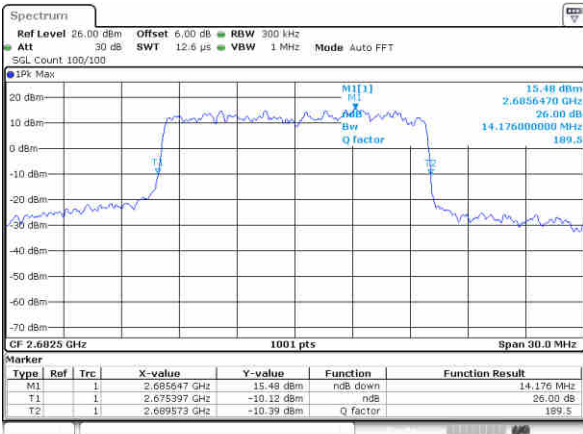
Date: 5,SEP,2020 14:09:06

Middle Channel / 20MHz / 64QAM



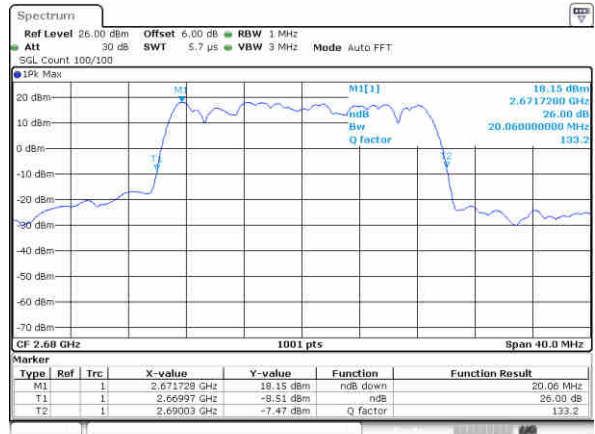
Date: 5,SEP,2020 14:12:30

Highest Channel / 15MHz / 64QAM



Date: 5,SEP,2020 14:10:06

Highest Channel / 20MHz / 64QAM



Date: 5,SEP,2020 14:13:30





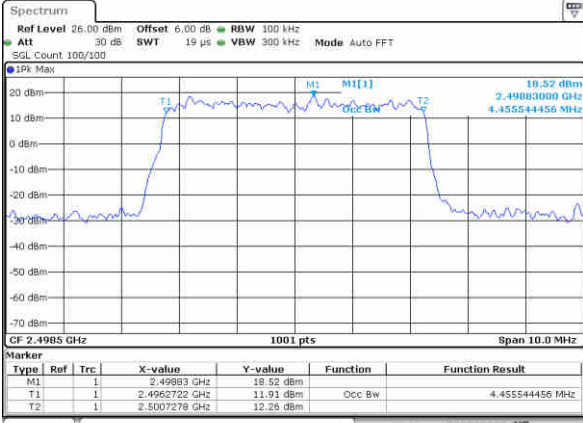
### Occupied Bandwidth

Mode	LTE Band 41 : 99%OBW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	4.46	4.48	8.99	9.05	13.49	13.52	18.38	18.34
Middle CH	4.51	4.48	8.97	8.99	13.52	13.37	18.26	18.14
Highest CH	4.50	4.51	9.01	8.95	13.40	13.40	18.22	18.30
Mode	LTE Band 41 : 99%OBW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM	
Lowest CH	4.49		9.03		13.37		18.18	
Middle CH	4.48		9.03		13.46		18.38	
Highest CH	4.49		8.99		13.40		18.34	



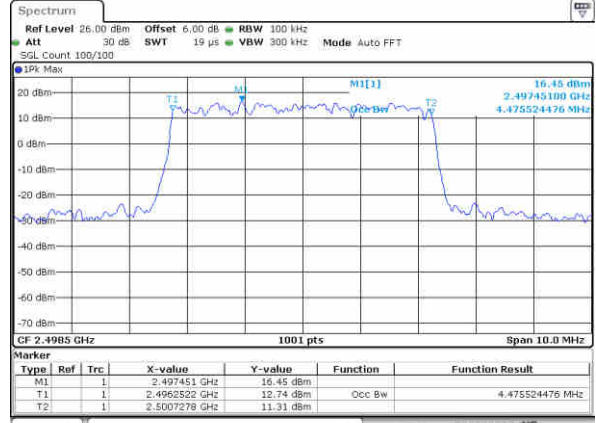
LTE Band 41

Lowest Channel / 5MHz / QPSK



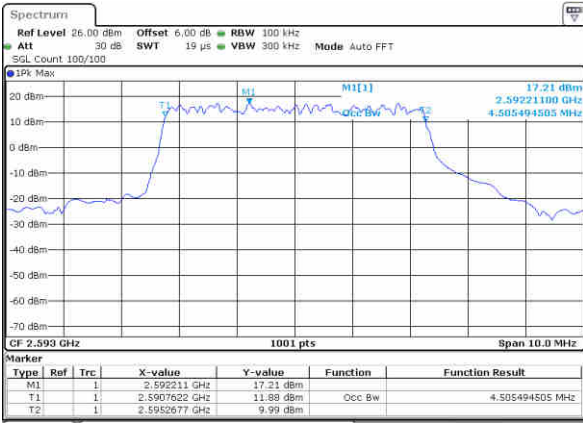
Date: 5,SEP,2020 13:59:55

Lowest Channel / 5MHz / 16QAM



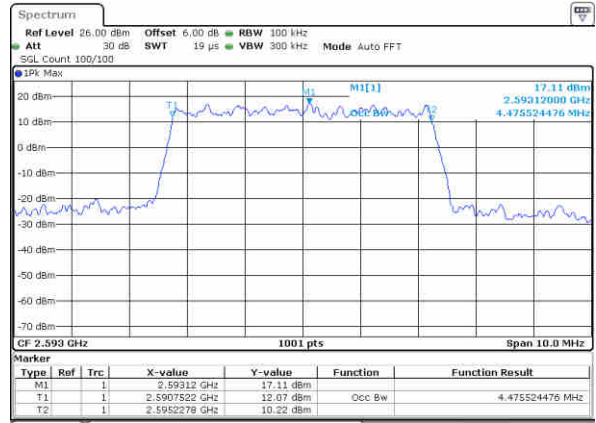
Date: 5,SEP,2020 14:00:16

Middle Channel / 5MHz / QPSK



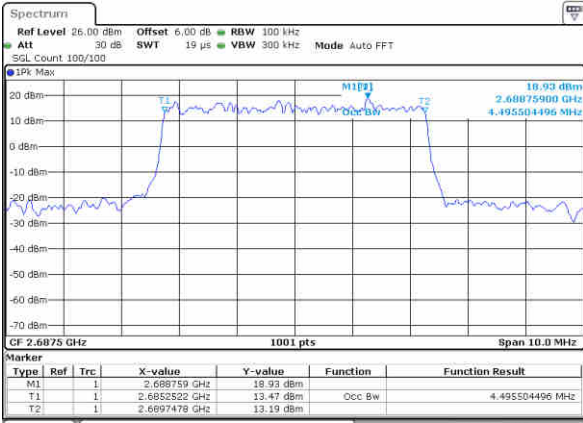
Date: 5,SEP,2020 14:00:56

Middle Channel / 5MHz / 16QAM



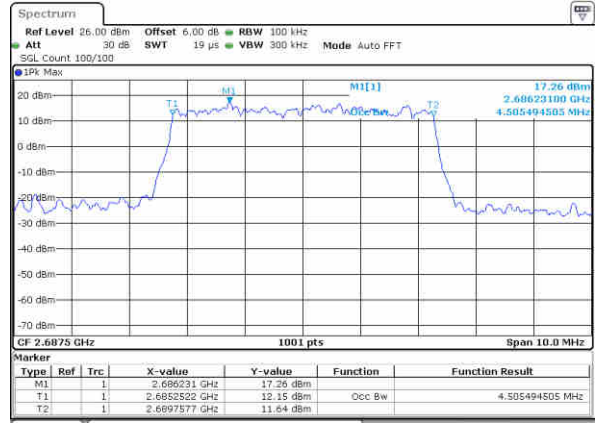
Date: 5,SEP,2020 14:01:16

Highest Channel / 5MHz / QPSK



Date: 5,SEP,2020 14:01:56

Highest Channel / 5MHz / 16QAM

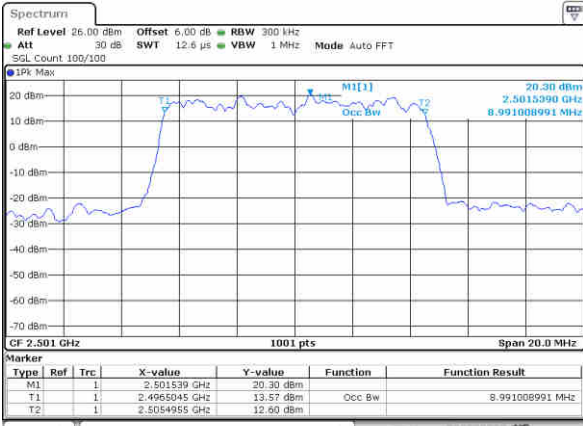


Date: 5,SEP,2020 14:02:16



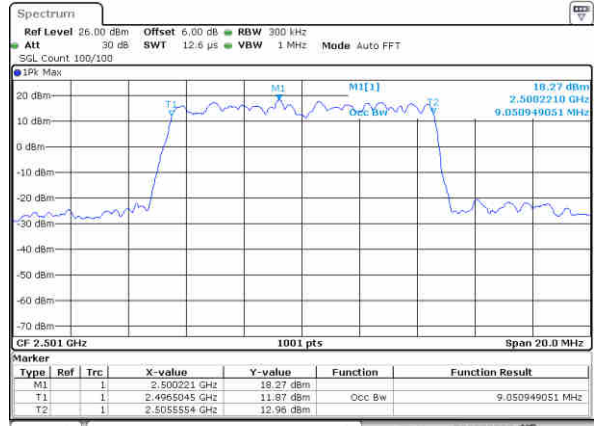
LTE Band 41

Lowest Channel / 10MHz / QPSK



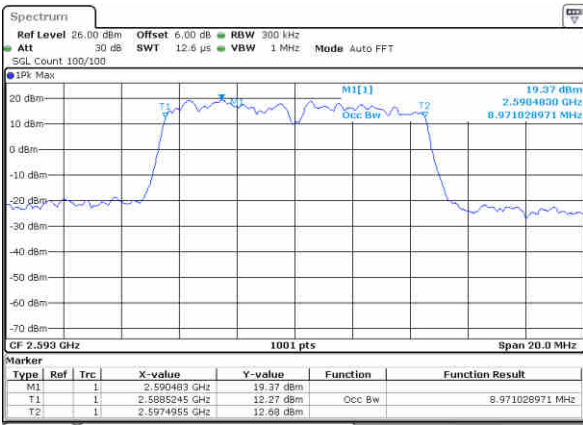
Date: 5,SEP,2020 14:02:50

Lowest Channel / 10MHz / 16QAM



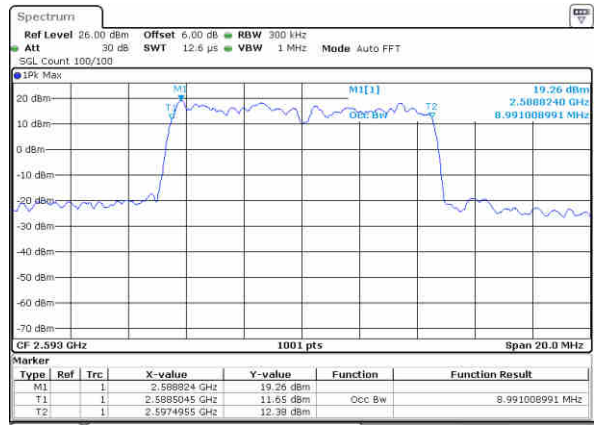
Date: 5,SEP,2020 14:04:10

Middle Channel / 10MHz / QPSK



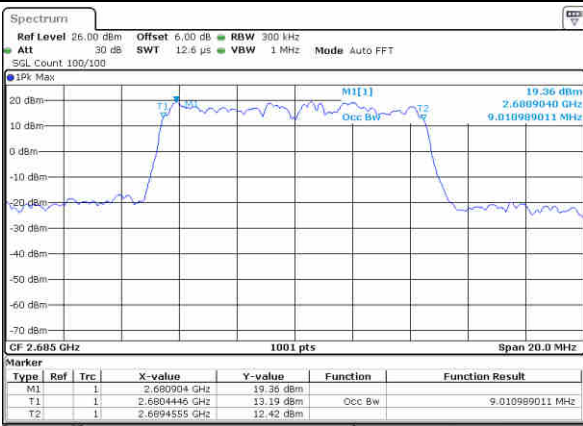
Date: 5,SEP,2020 14:04:50

Middle Channel / 10MHz / 16QAM



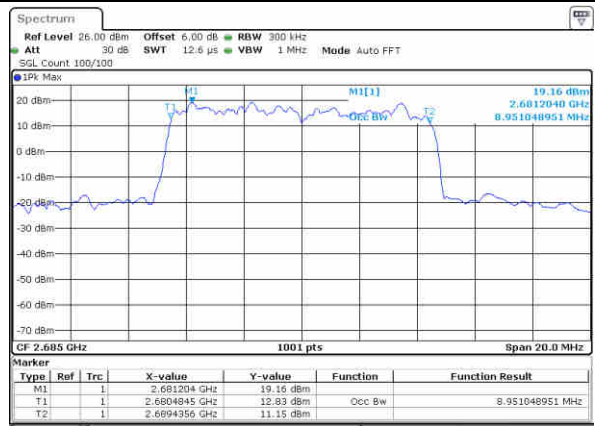
Date: 5,SEP,2020 14:05:10

Highest Channel / 10MHz / QPSK



Date: 5,SEP,2020 14:05:50

Highest Channel / 10MHz / 16QAM

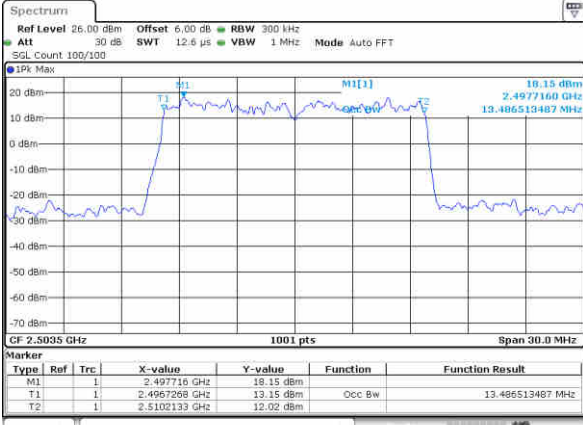


Date: 5,SEP,2020 14:06:10



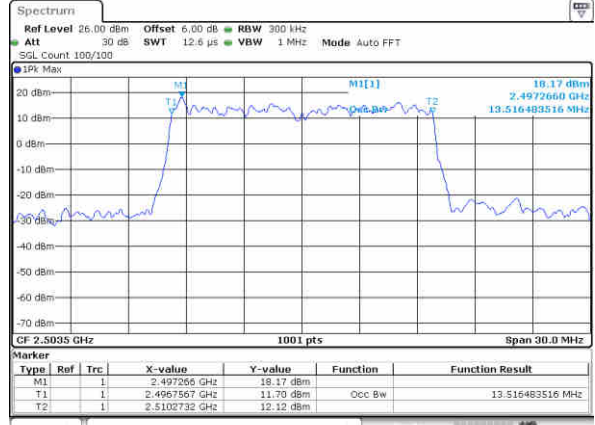
LTE Band 41

Lowest Channel / 15MHz / QPSK



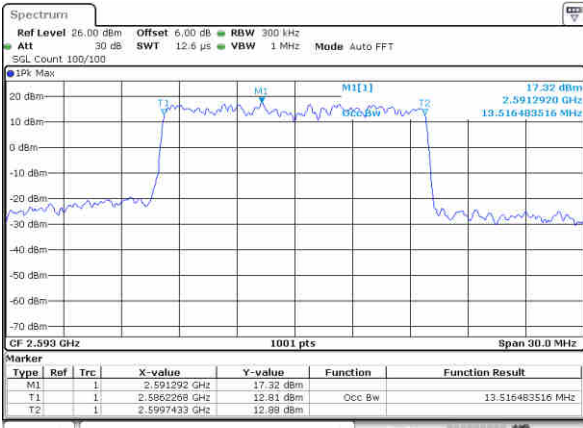
Date: 5,SEP,2020 14:07:15

Lowest Channel / 15MHz / 16QAM



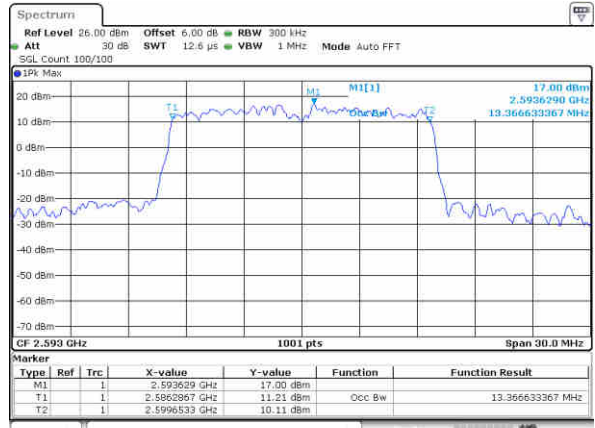
Date: 5,SEP,2020 14:07:16

Middle Channel / 15MHz / QPSK



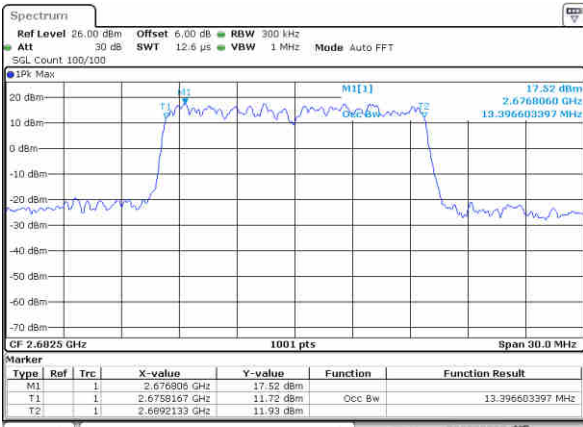
Date: 5,SEP,2020 14:08:16

Middle Channel / 15MHz / 16QAM



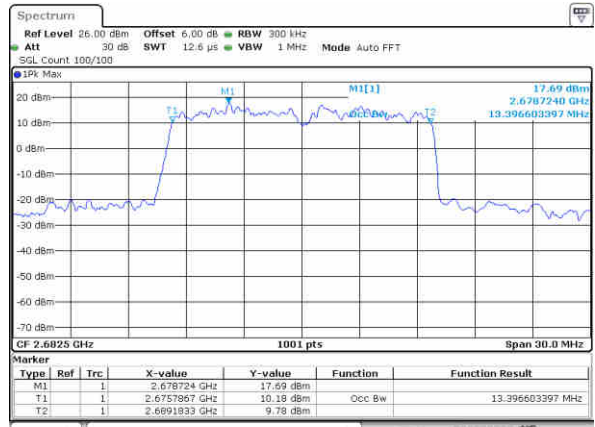
Date: 5,SEP,2020 14:08:16

Highest Channel / 15MHz / QPSK



Date: 5,SEP,2020 14:09:16

Highest Channel / 15MHz / 16QAM

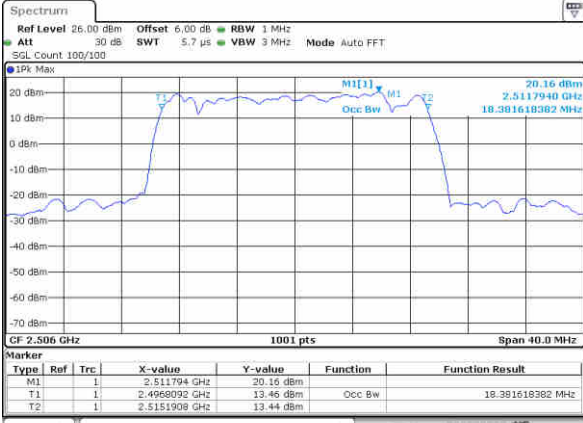


Date: 5,SEP,2020 14:09:16



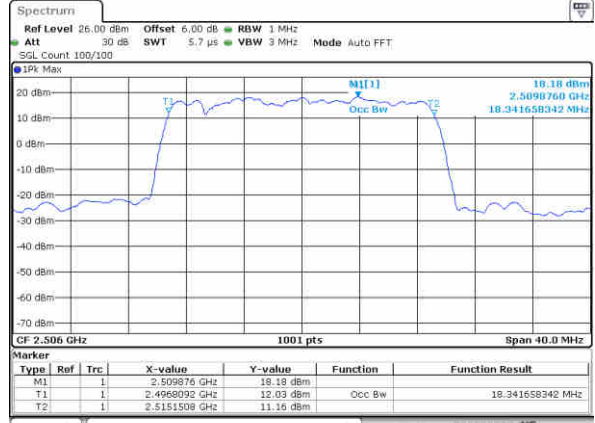
LTE Band 41

Lowest Channel / 20MHz / QPSK



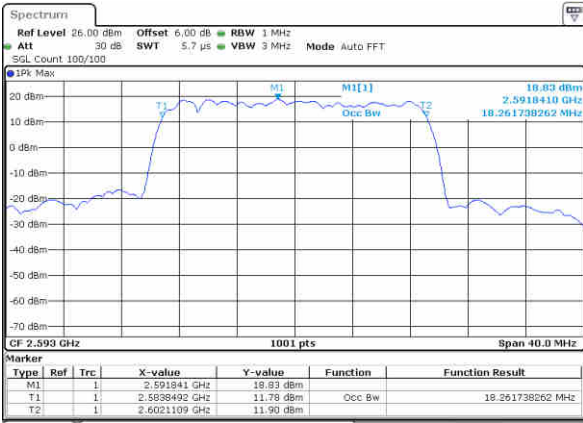
Date: 5,SEP,2020 14:10:39

Lowest Channel / 20MHz / 16QAM



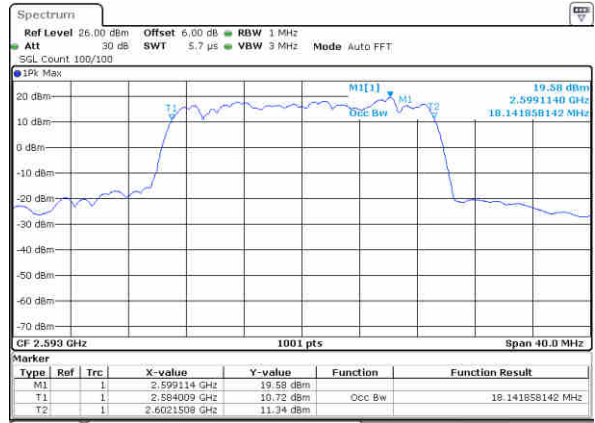
Date: 5,SEP,2020 14:10:59

Middle Channel / 20MHz / QPSK



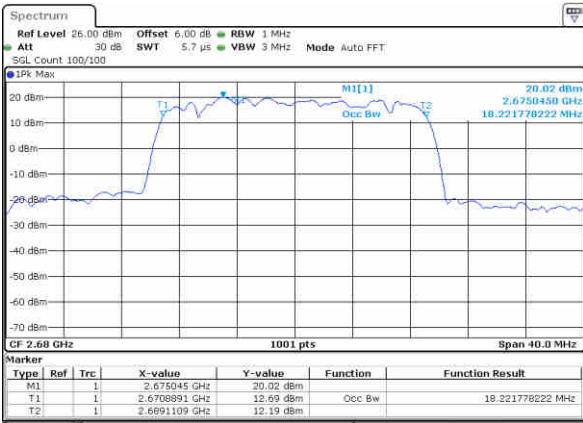
Date: 5,SEP,2020 14:11:39

Middle Channel / 20MHz / 16QAM



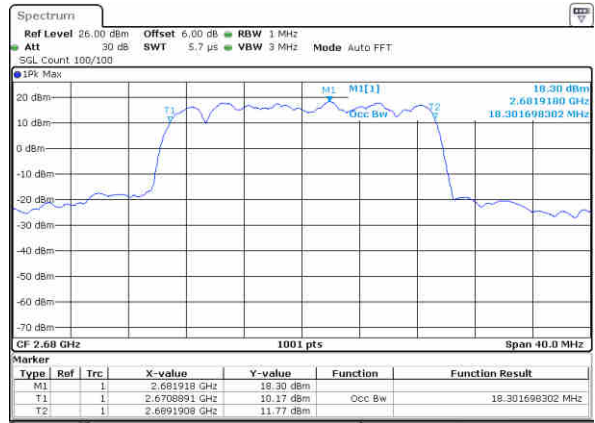
Date: 5,SEP,2020 14:11:59

Highest Channel / 20MHz / QPSK



Date: 5,SEP,2020 14:12:40

Highest Channel / 20MHz / 16QAM

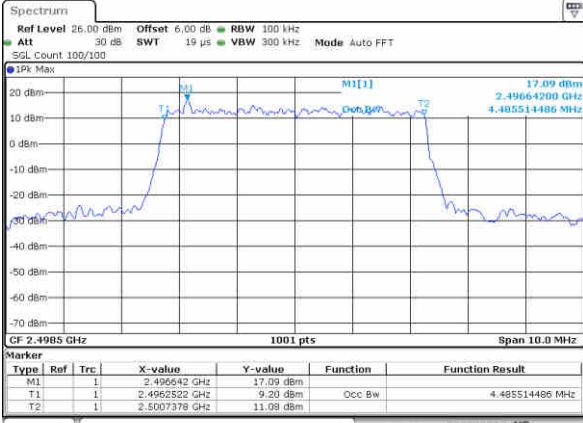


Date: 5,SEP,2020 14:13:00



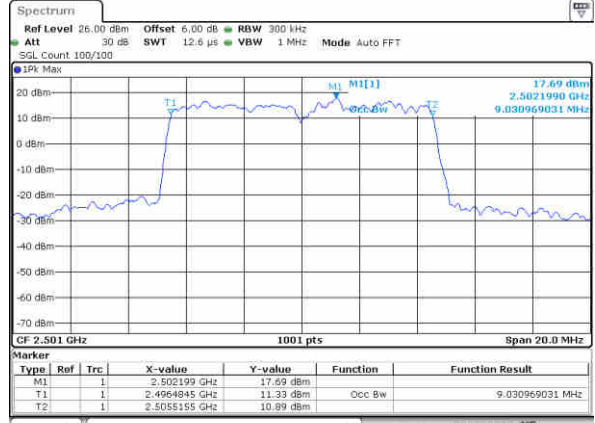
LTE Band 41

Lowest Channel / 5MHz / 64QAM



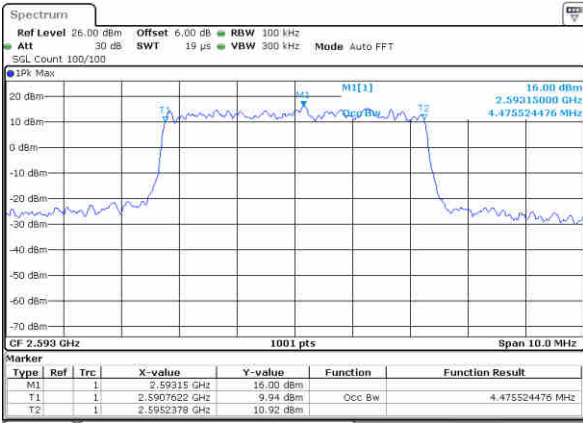
Date: 5,SEP,2020 14:00:36

Lowest Channel / 10MHz / 64QAM



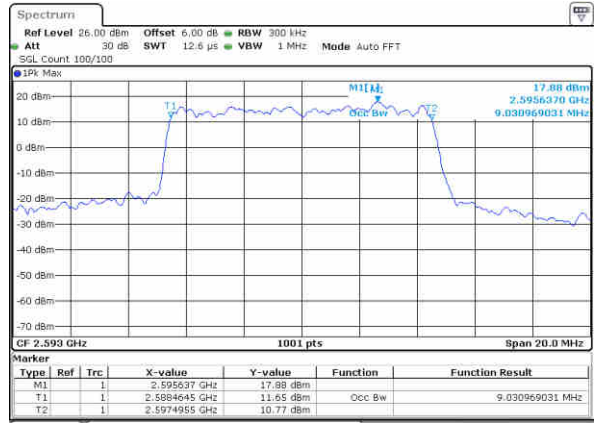
Date: 5,SEP,2020 14:00:36

Middle Channel / 5MHz / 64QAM



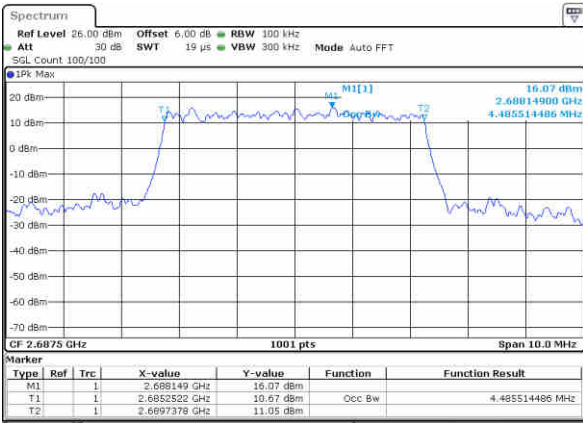
Date: 5,SEP,2020 14:00:36

Middle Channel / 10MHz / 64QAM



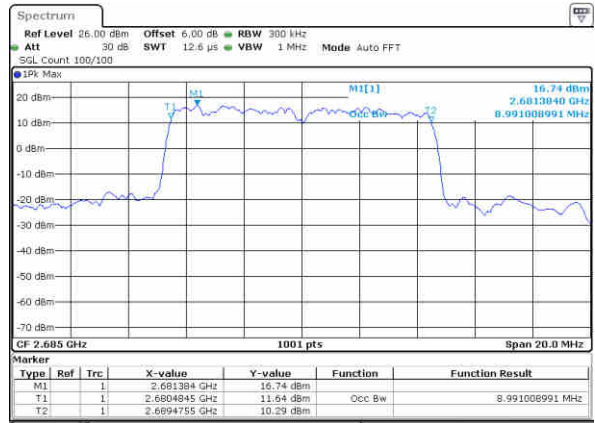
Date: 5,SEP,2020 14:00:36

Highest Channel / 5MHz / 64QAM



Date: 5,SEP,2020 14:02:36

Highest Channel / 10MHz / 64QAM

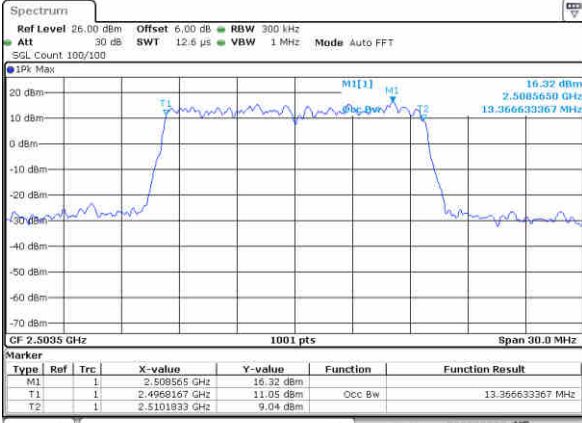


Date: 5,SEP,2020 14:06:31



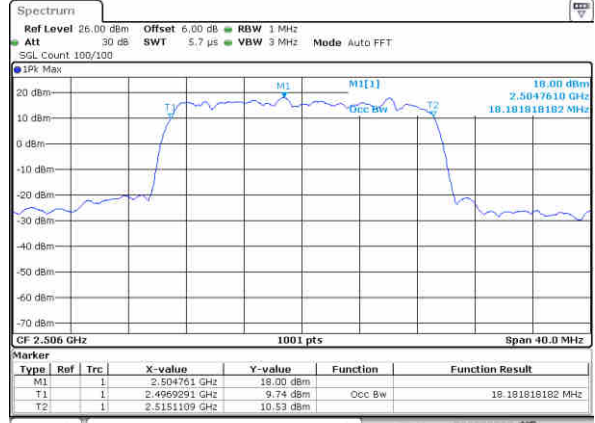
LTE Band 41

Lowest Channel / 15MHz / 64QAM



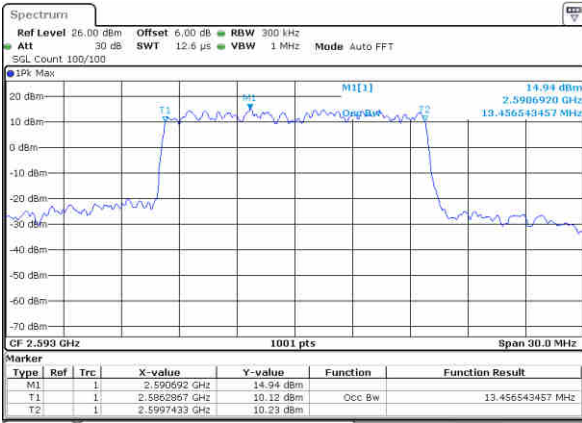
Date: 5,SEP,2020 14:07:56

Lowest Channel / 20MHz / 64QAM



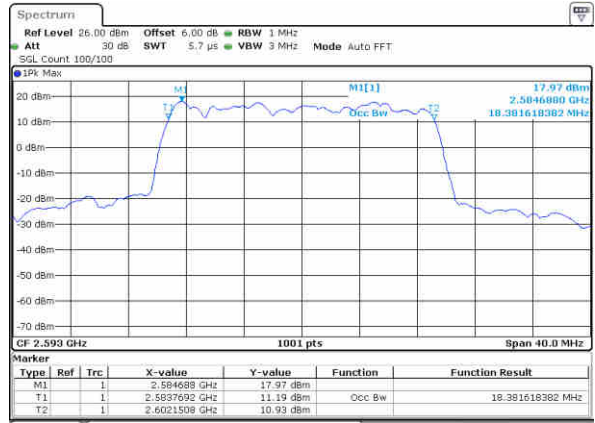
Date: 5,SEP,2020 14:11:19

Middle Channel / 15MHz / 64QAM



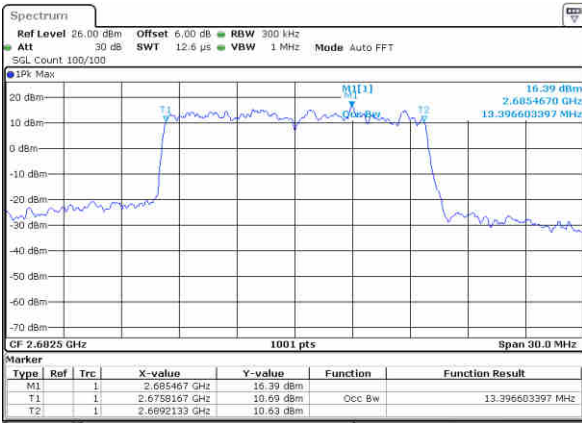
Date: 5,SEP,2020 14:08:56

Middle Channel / 20MHz / 64QAM



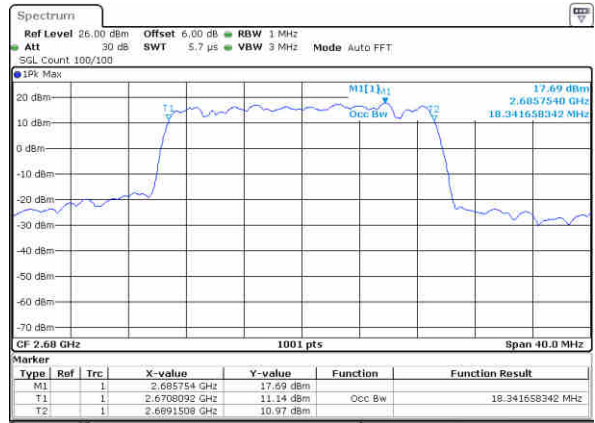
Date: 5,SEP,2020 14:12:59

Highest Channel / 15MHz / 64QAM



Date: 5,SEP,2020 14:09:56

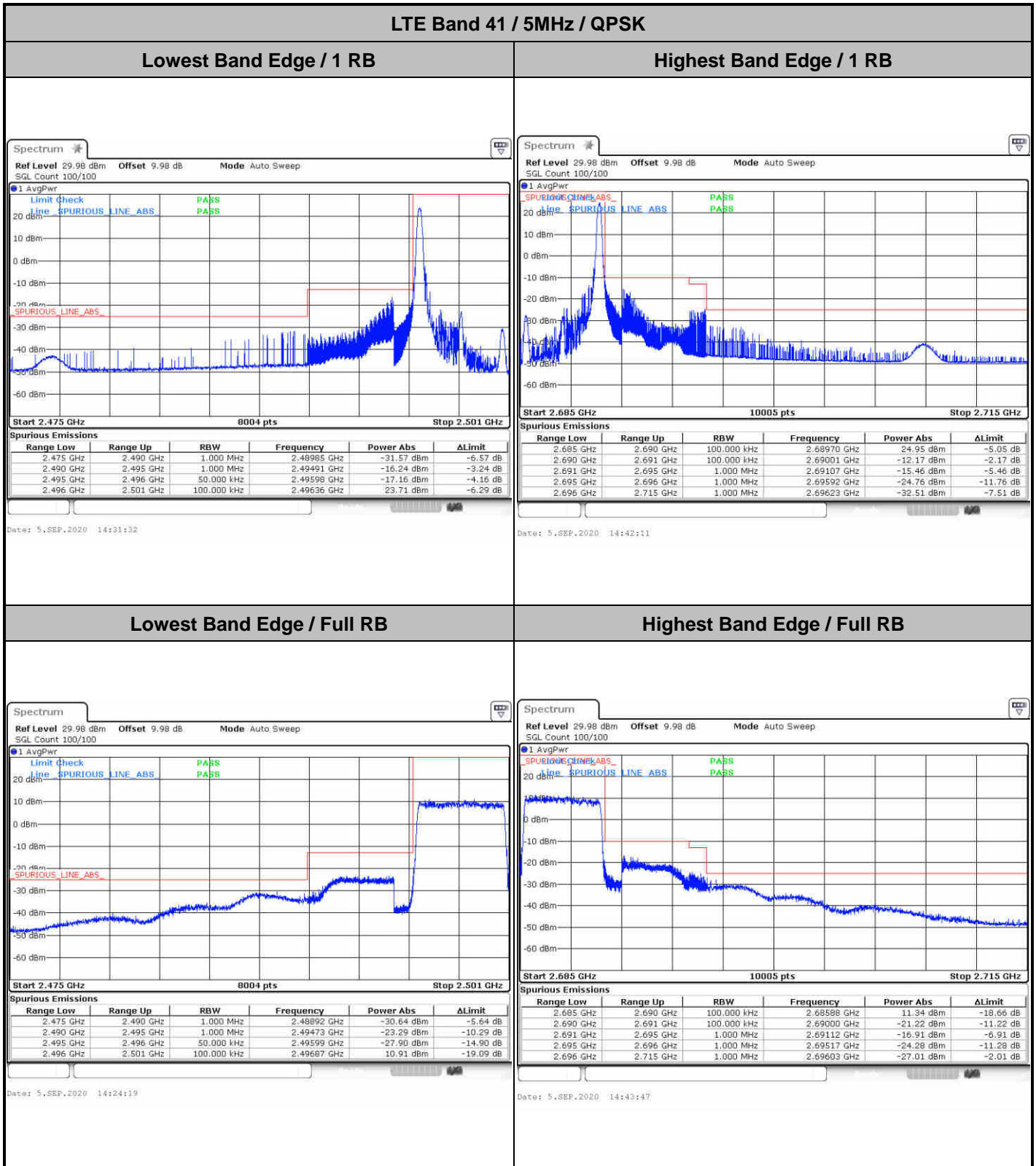
Highest Channel / 20MHz / 64QAM



Date: 5,SEP,2020 14:13:20



# Conducted Band Edge

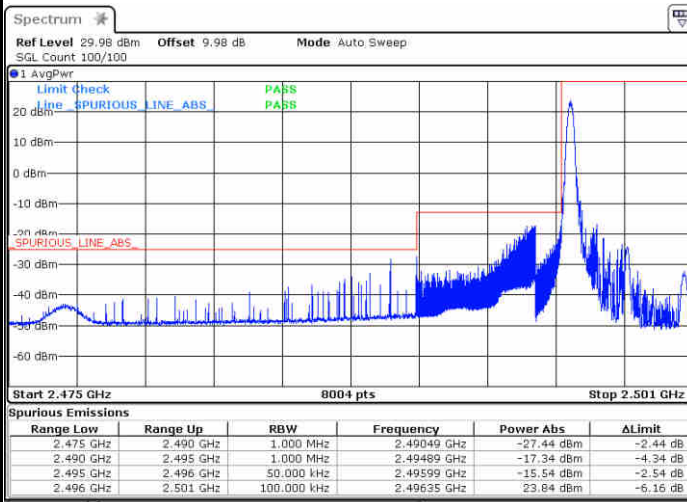






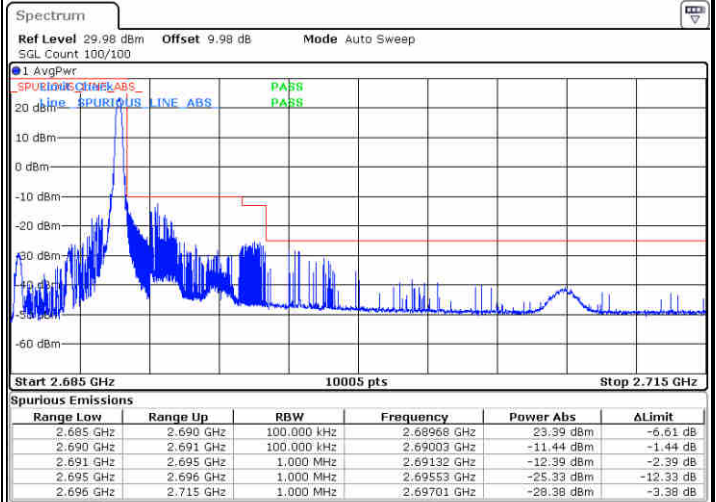
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



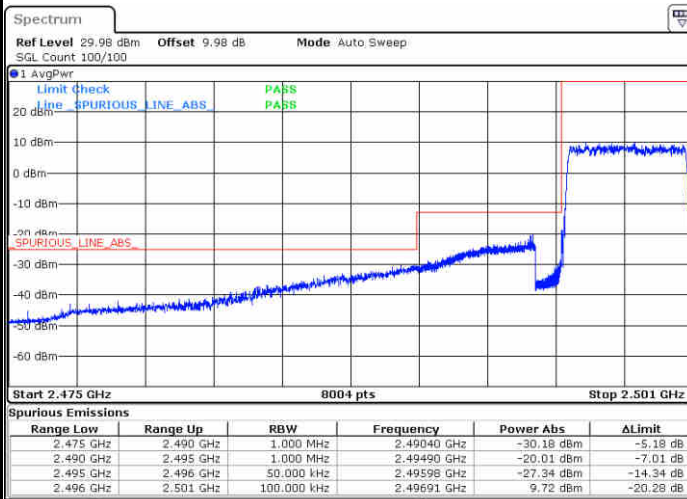
Date: 5,SEP,2020 14:29:33

Highest Band Edge / 1 RB



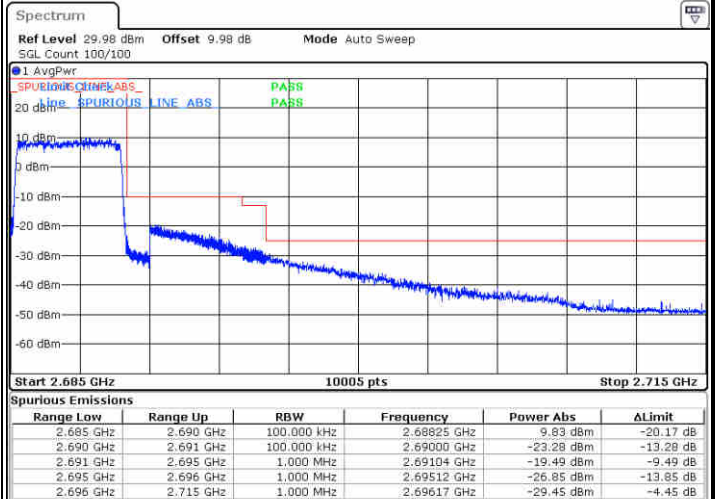
Date: 5,SEP,2020 14:42:31

Lowest Band Edge / Full RB



Date: 5,SEP,2020 14:25:33

Highest Band Edge / Full RB



Date: 5,SEP,2020 14:43:28