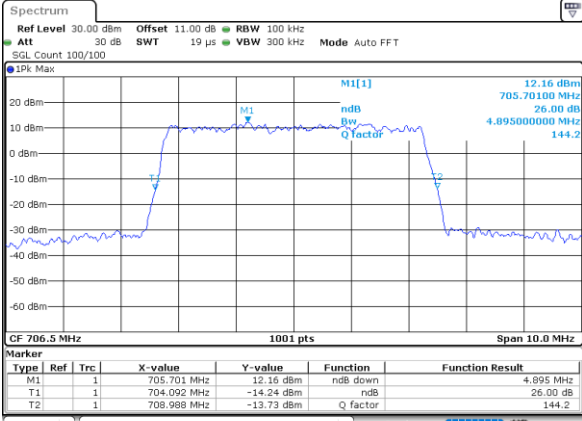




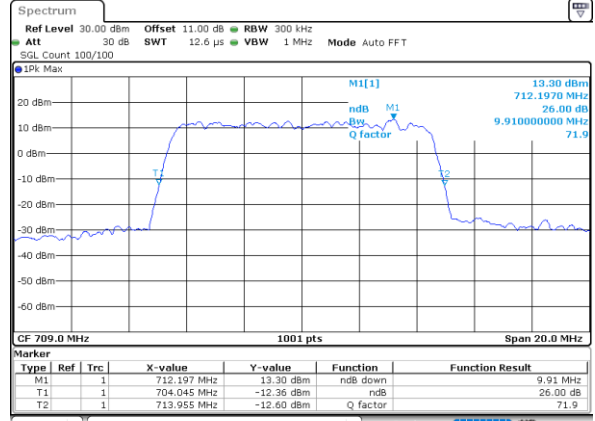
LTE Band 17

Lowest Channel / 5MHz / 256QAM



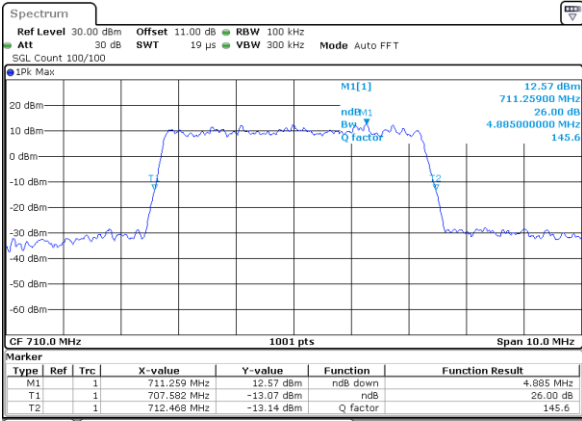
Date: 19\_AUG.2020 13:14:37

Lowest Channel / 10MHz / 256QAM



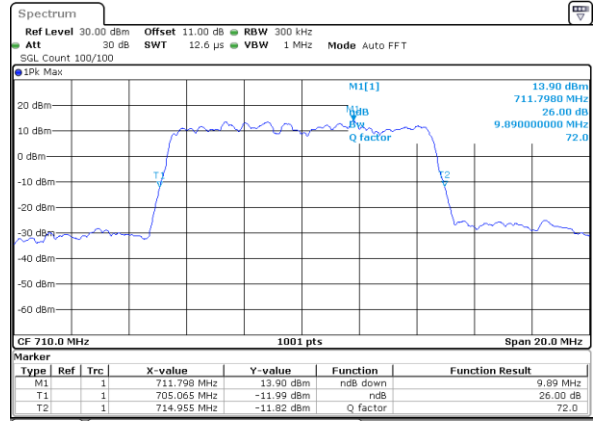
Date: 19\_AUG.2020 13:12:04

Middle Channel / 5MHz / 256QAM



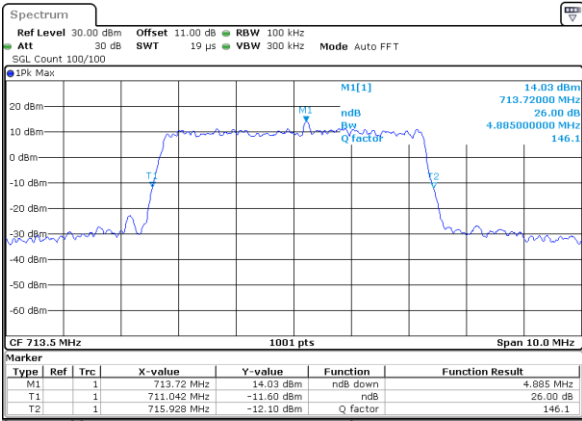
Date: 19\_AUG.2020 13:12:56

Middle Channel / 10MHz / 256QAM



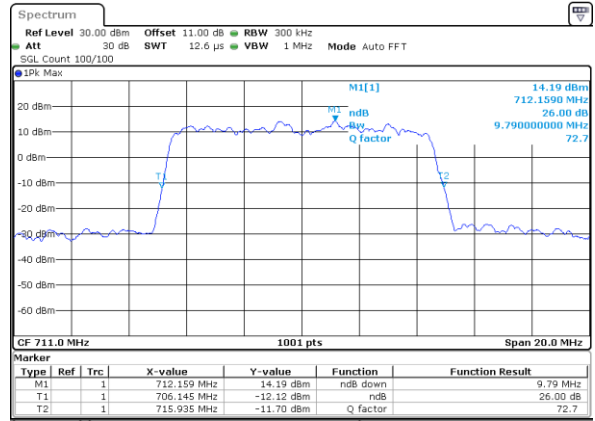
Date: 19\_AUG.2020 13:12:01

Highest Channel / 5MHz / 256QAM



Date: 19\_AUG.2020 13:18:02

Highest Channel / 10MHz / 256QAM



Date: 19\_AUG.2020 13:14:01:17



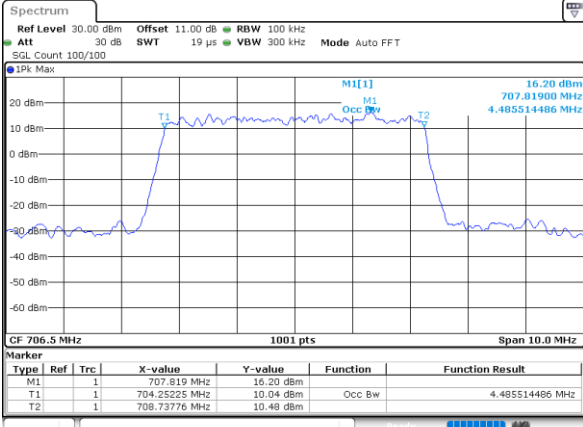
**Occupied Bandwidth**

Mode	LTE Band 17 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.49	4.49	9.07	8.99	-	-	-	-
Middle CH	-	-	-	-	4.50	4.47	9.01	9.01	-	-	-	-
Highest CH	-	-	-	-	4.49	4.49	9.01	8.97	-	-	-	-
Mode	LTE Band 17 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Lowest CH	-	-	-	-	4.49	4.49	9.01	8.99	-	-	-	-
Middle CH	-	-	-	-	4.48	4.48	9.03	8.99	-	-	-	-
Highest CH	-	-	-	-	4.50	4.48	9.03	8.97	-	-	-	-



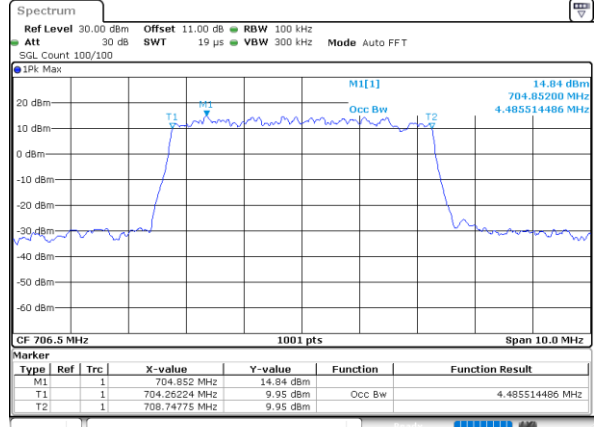
LTE Band 17

Lowest Channel / 5MHz / QPSK



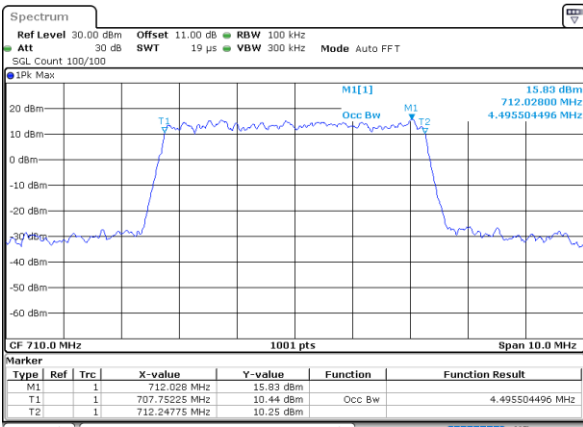
Date: 18\_AUG.2020 13:12:40

Lowest Channel / 5MHz / 16QAM



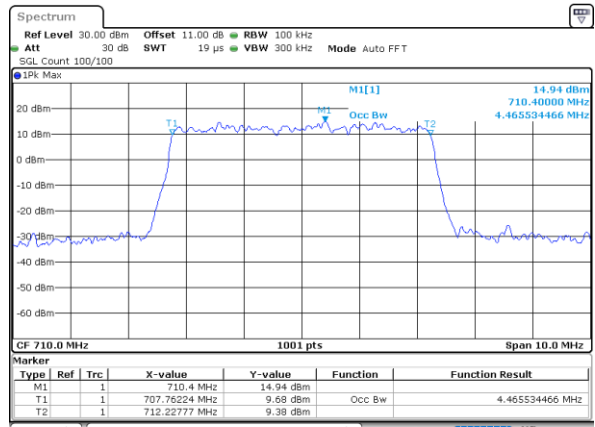
Date: 18\_AUG.2020 13:12:52

Middle Channel / 5MHz / QPSK



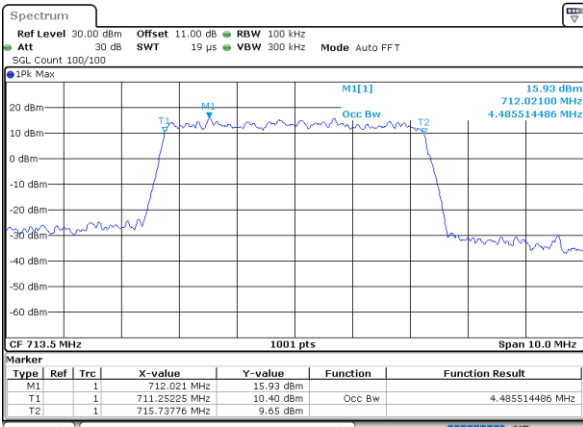
Date: 18\_AUG.2020 13:17:42

Middle Channel / 5MHz / 16QAM



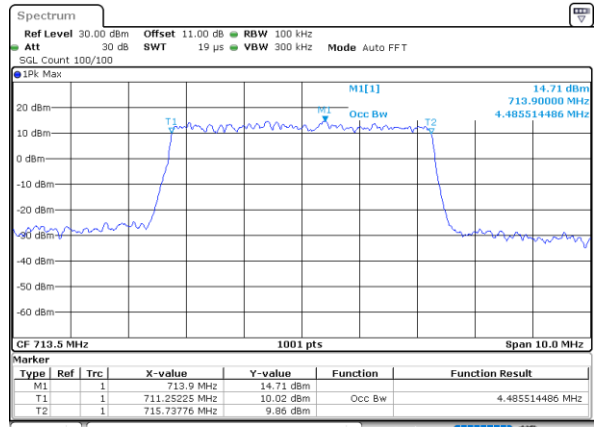
Date: 18\_AUG.2020 13:17:53

Highest Channel / 5MHz / QPSK



Date: 18\_AUG.2020 13:19:46

Highest Channel / 5MHz / 16QAM

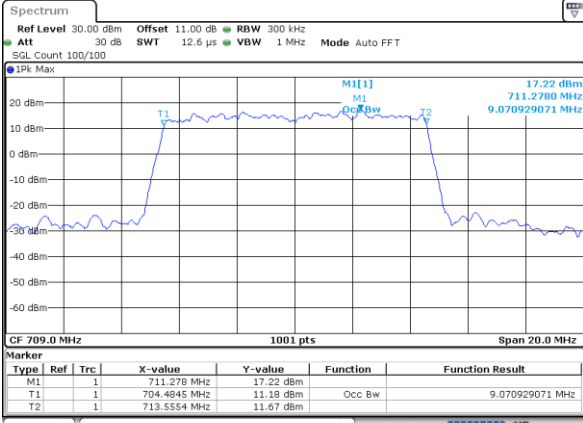


Date: 18\_AUG.2020 13:19:59



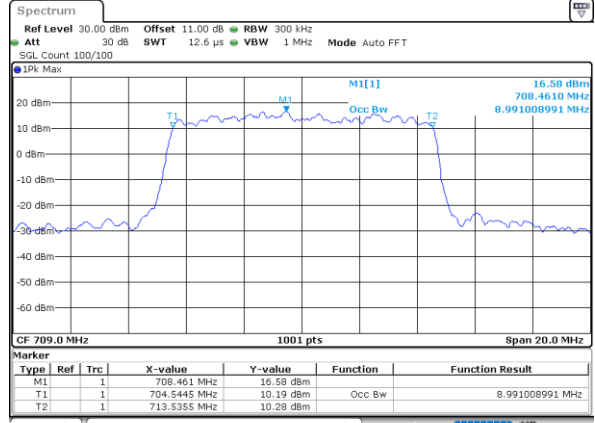
LTE Band 17

Lowest Channel / 10MHz / QPSK



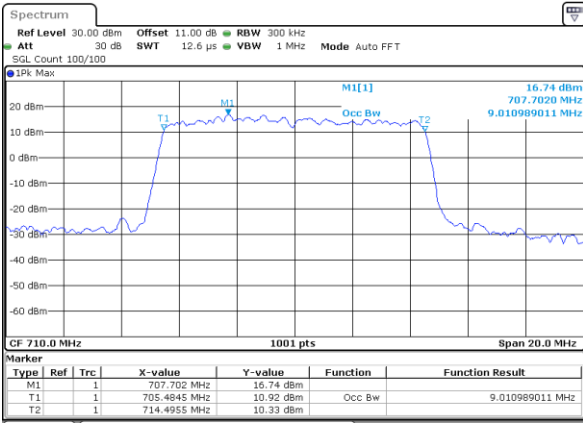
Date: 18\_AUG.2020 13:24:34

Lowest Channel / 10MHz / 16QAM



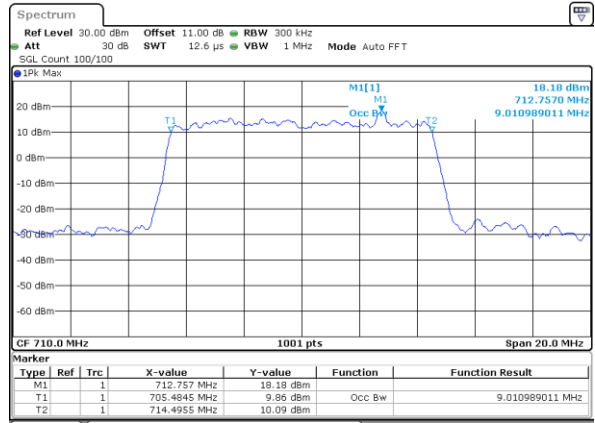
Date: 18\_AUG.2020 13:24:46

Middle Channel / 10MHz / QPSK



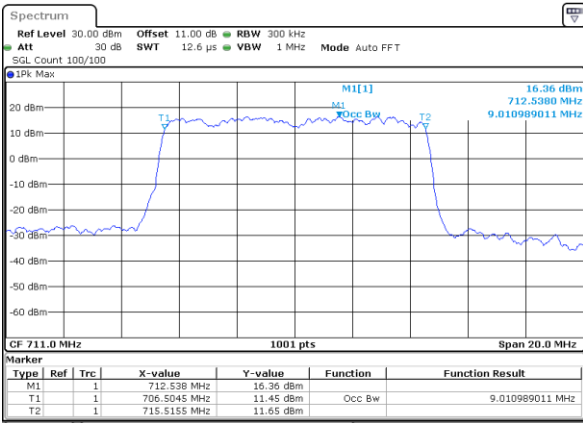
Date: 18\_AUG.2020 13:29:06

Middle Channel / 10MHz / 16QAM



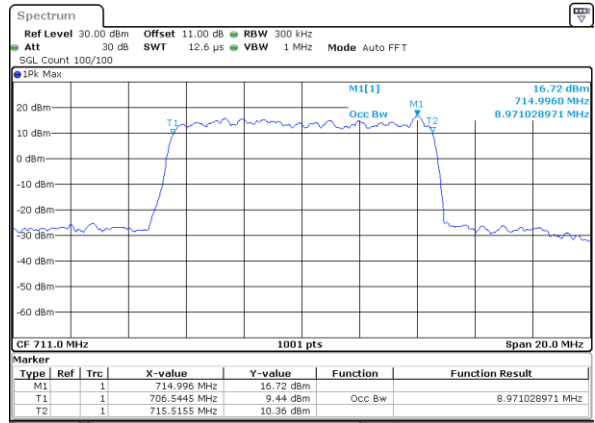
Date: 18\_AUG.2020 13:29:47

Highest Channel / 10MHz / QPSK



Date: 18\_AUG.2020 13:31:41

Highest Channel / 10MHz / 16QAM

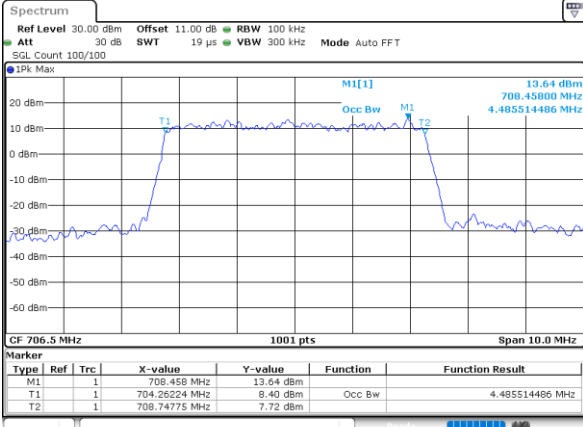


Date: 18\_AUG.2020 13:31:52



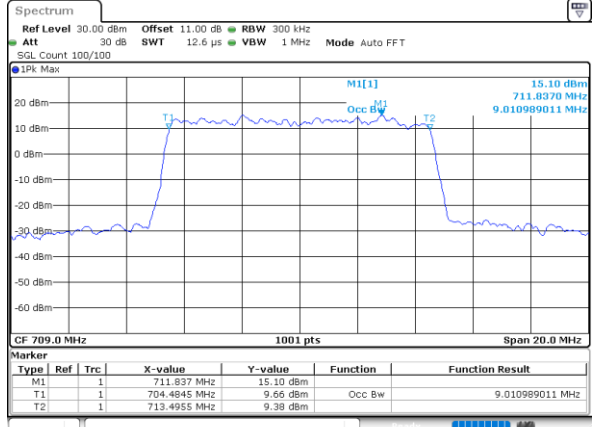
LTE Band 17

Lowest Channel / 5MHz / 64QAM



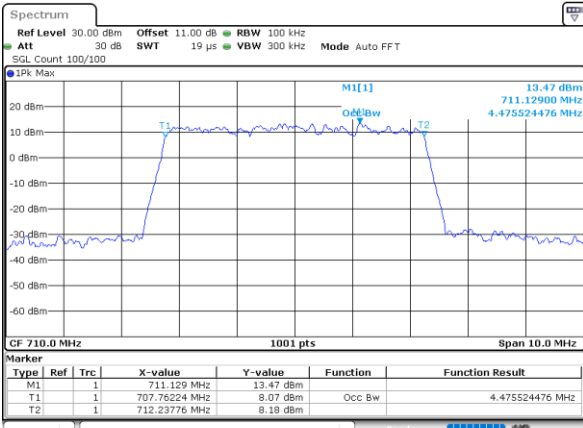
Date: 18\_AUG.2020 13:36:28

Lowest Channel / 10MHz / 64QAM



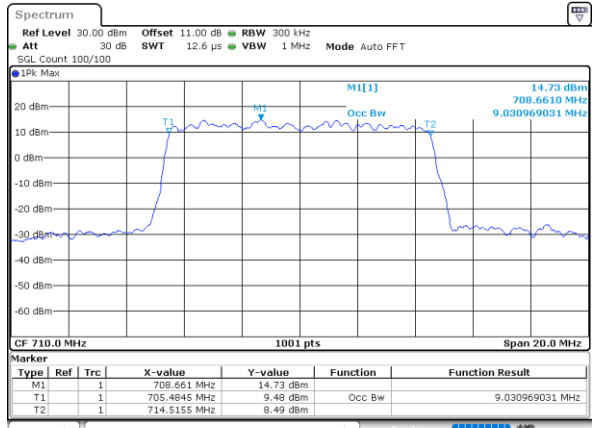
Date: 18\_AUG.2020 13:42:24

Middle Channel / 5MHz / 64QAM



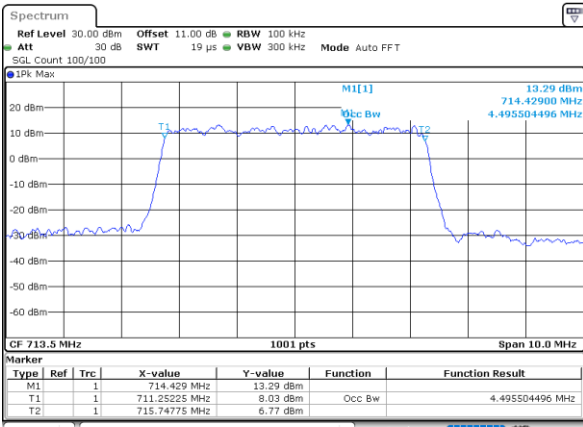
Date: 18\_AUG.2020 13:38:58

Middle Channel / 10MHz / 64QAM



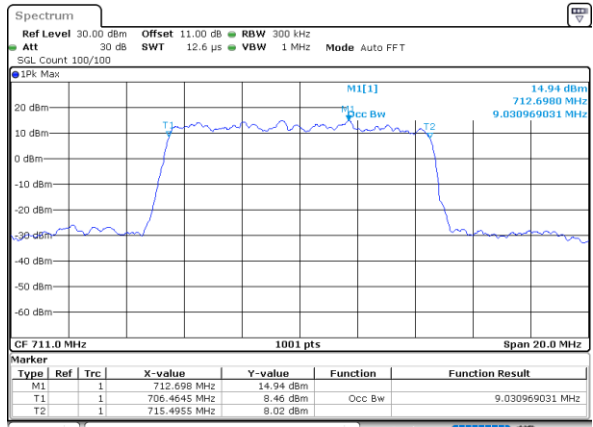
Date: 18\_AUG.2020 13:44:54

Highest Channel / 5MHz / 64QAM



Date: 18\_AUG.2020 13:40:00

Highest Channel / 10MHz / 64QAM

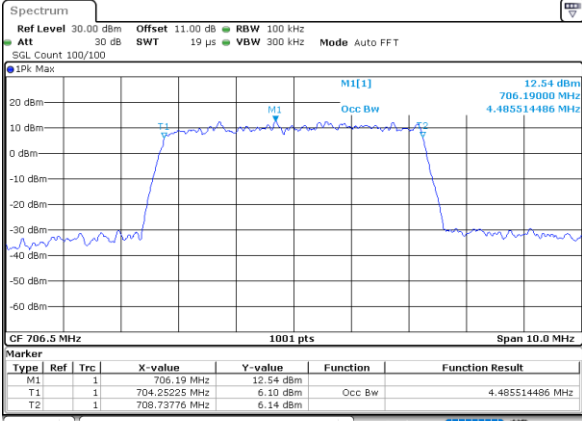


Date: 18\_AUG.2020 13:45:57



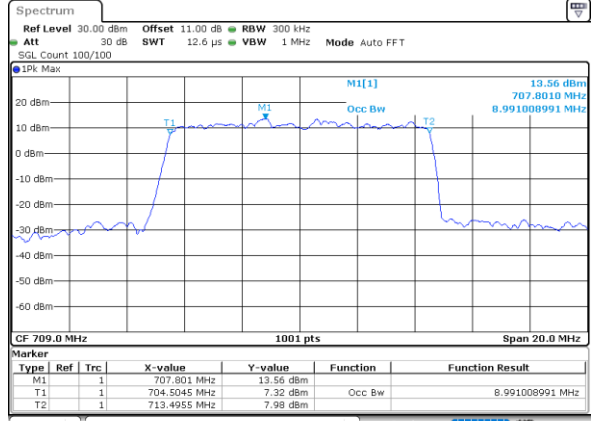
LTE Band 17

Lowest Channel / 5MHz / 256QAM



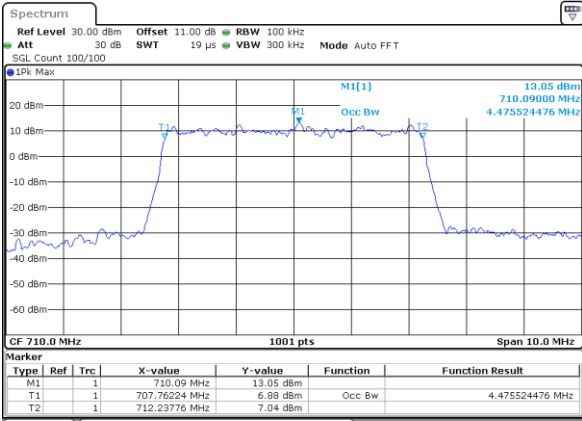
Date: 19\_AUG.2020 13:14:30

Lowest Channel / 10MHz / 256QAM



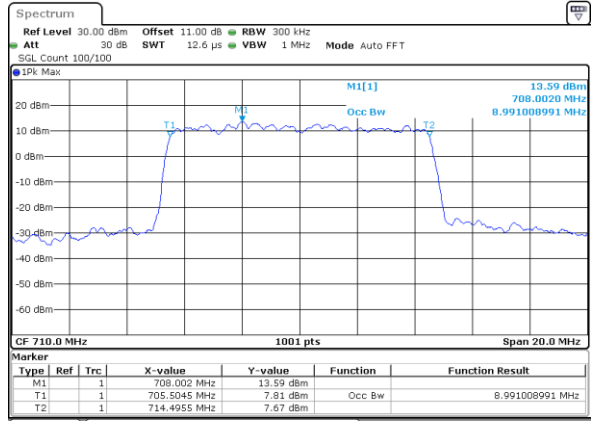
Date: 19\_AUG.2020 13:25:57

Middle Channel / 5MHz / 256QAM



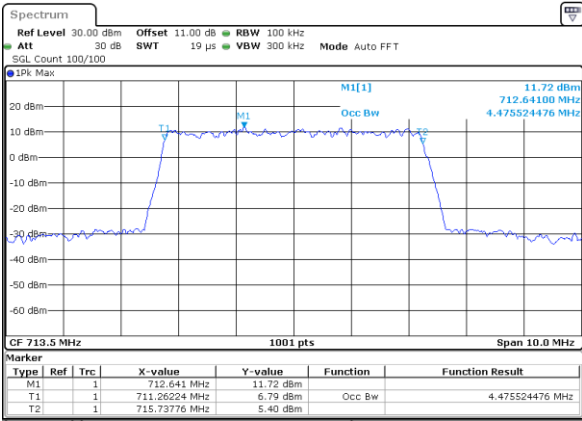
Date: 19\_AUG.2020 13:12:47

Middle Channel / 10MHz / 256QAM



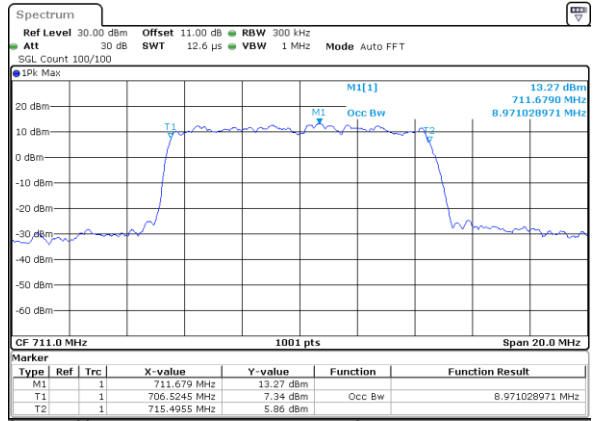
Date: 19\_AUG.2020 13:23:47

Highest Channel / 5MHz / 256QAM



Date: 19\_AUG.2020 13:17:54

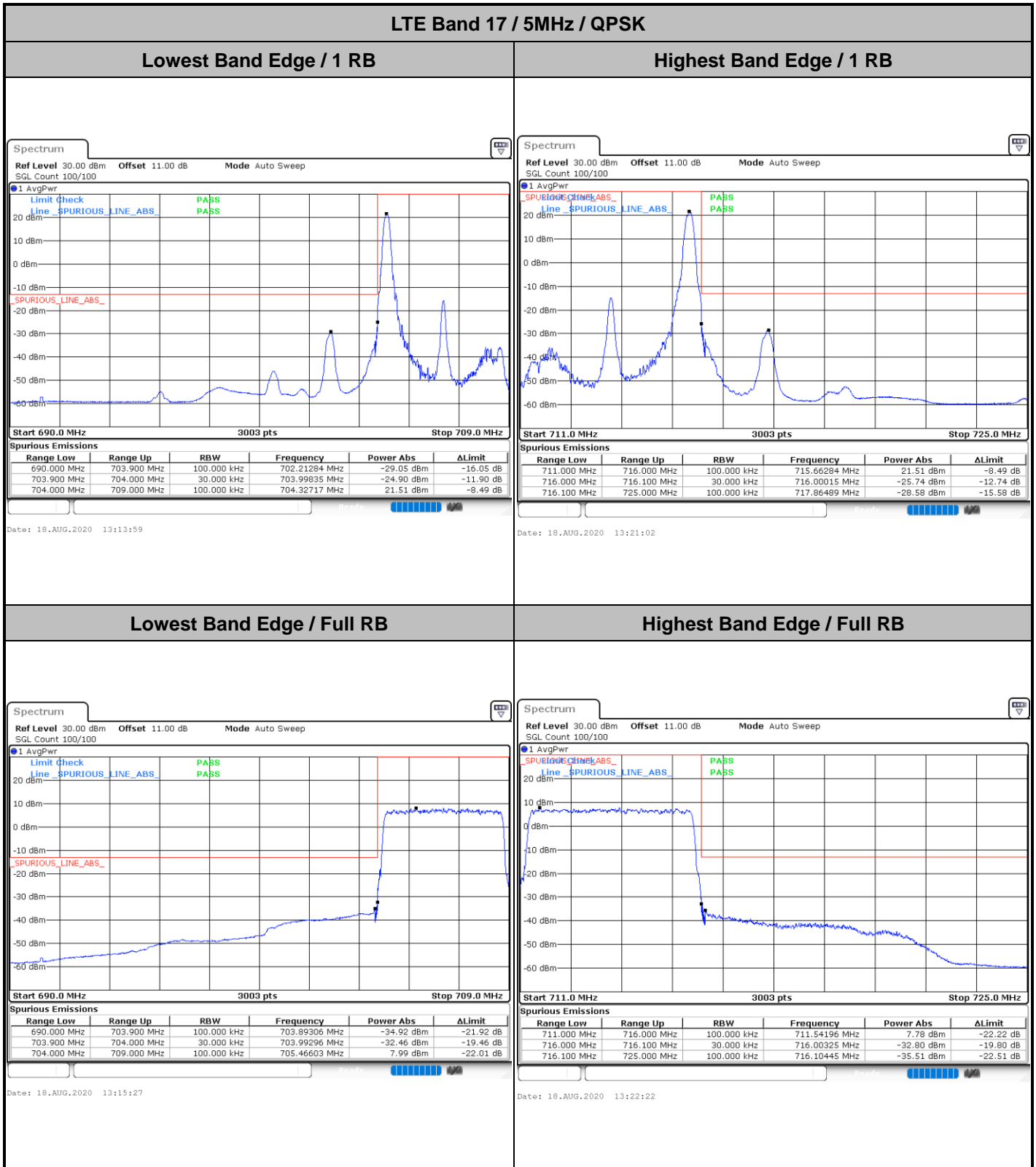
Highest Channel / 10MHz / 256QAM



Date: 19\_AUG.2020 13:14:10



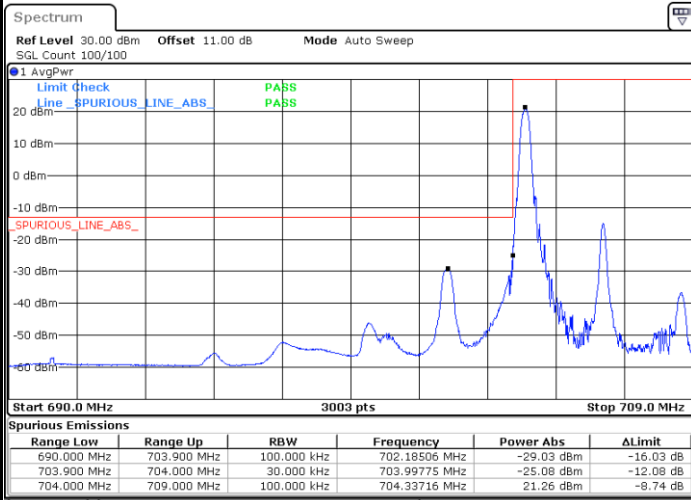
# Conducted Band Edge





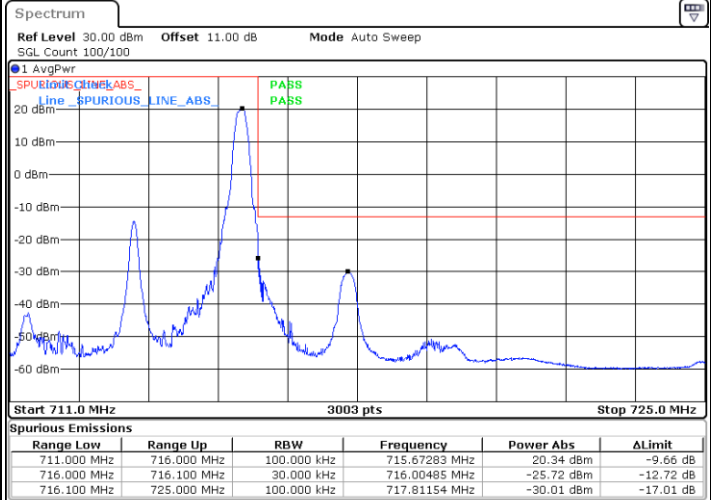
LTE Band 17 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



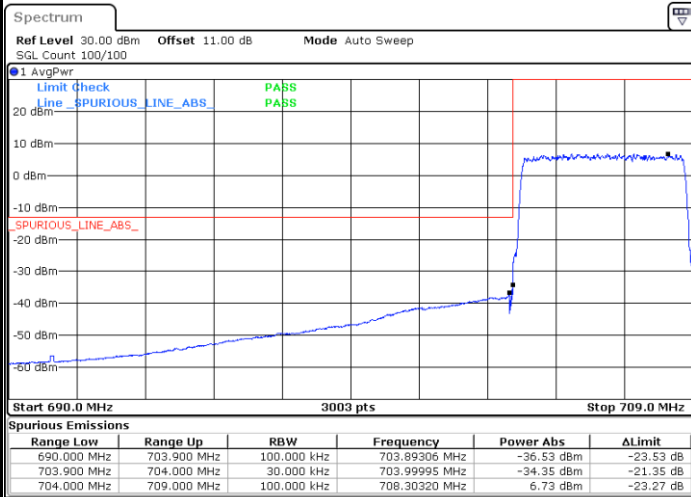
Date: 18.AUG.2020 13:14:43

Highest Band Edge / 1 RB



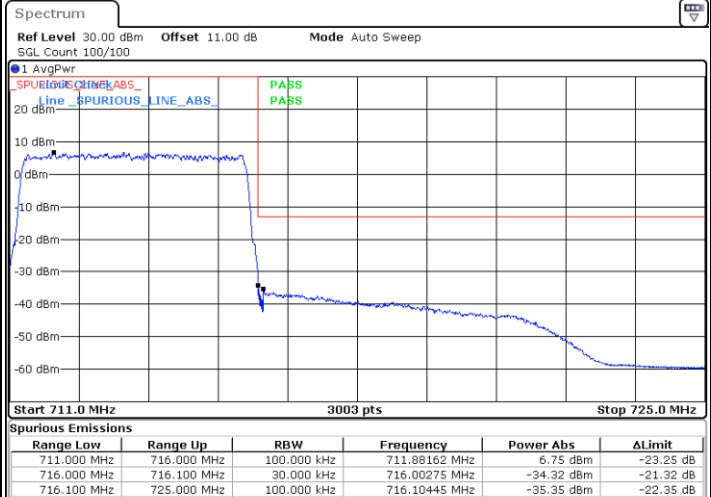
Date: 18.AUG.2020 13:21:42

Lowest Band Edge / Full RB



Date: 18.AUG.2020 13:16:10

Highest Band Edge / Full RB



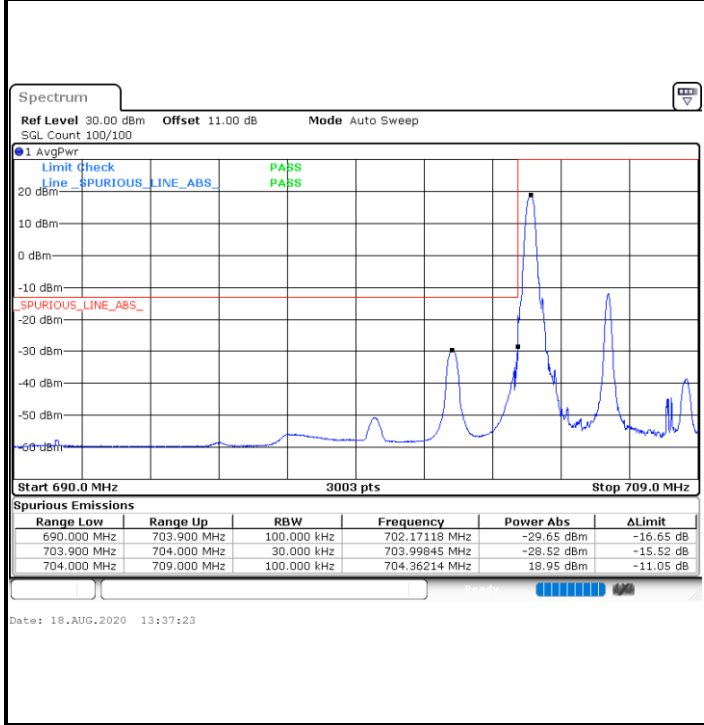
Date: 18.AUG.2020 13:23:01



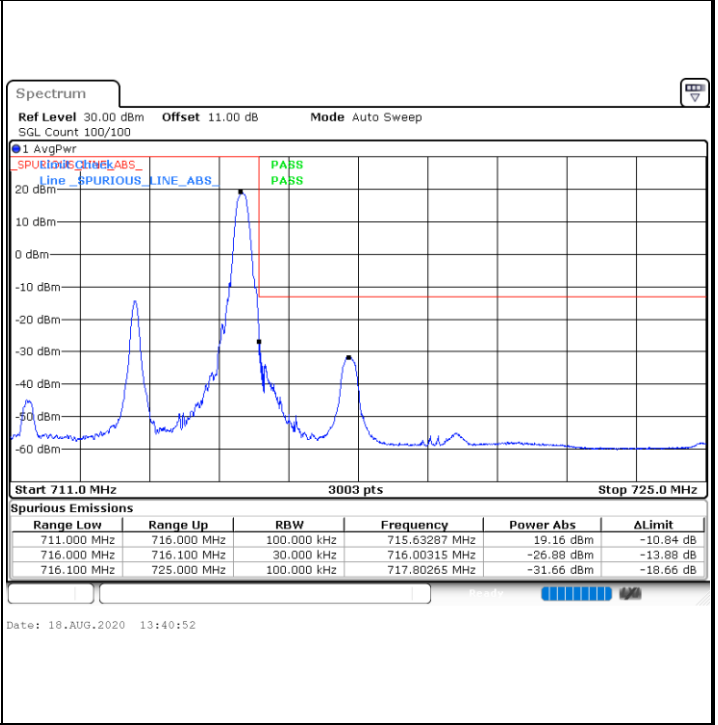


**LTE Band 17 / 5MHz / 64QAM**

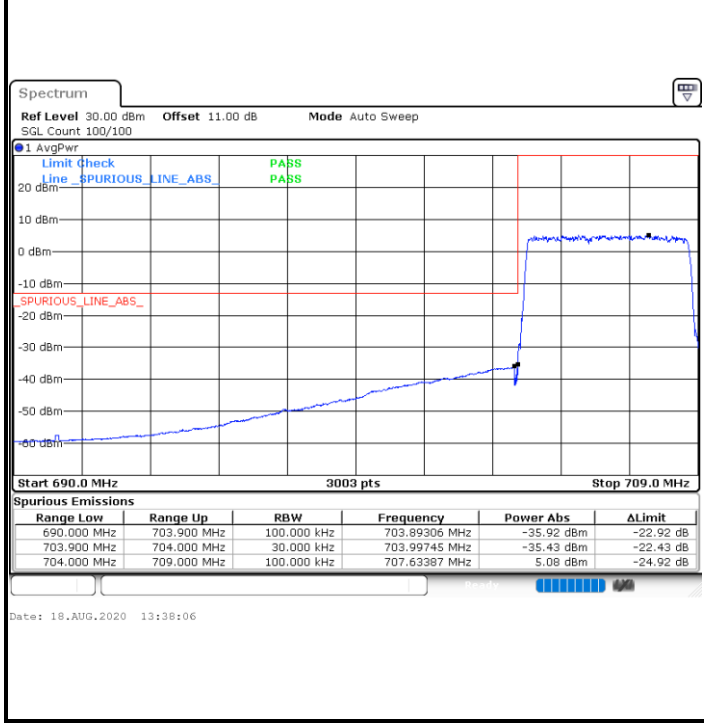
**Lowest Band Edge / 1 RB**



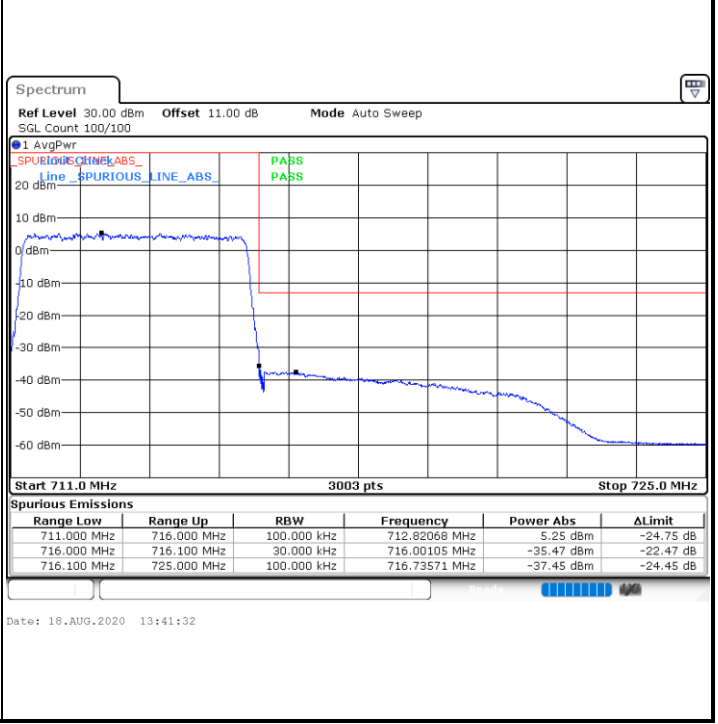
**Highest Band Edge / 1 RB**



**Lowest Band Edge / Full RB**



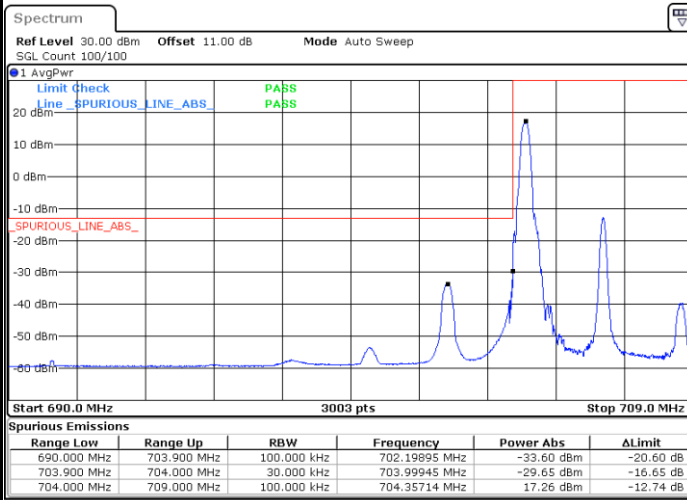
**Highest Band Edge / Full RB**





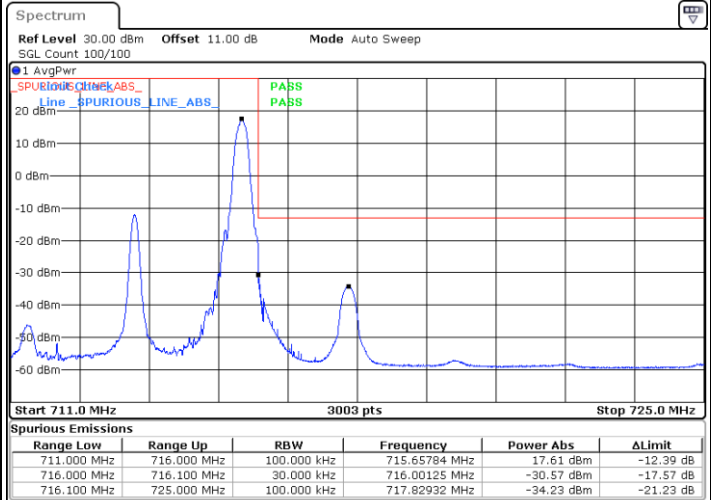
LTE Band 17 / 5MHz / 256QAM

Lowest Band Edge / 1 RB



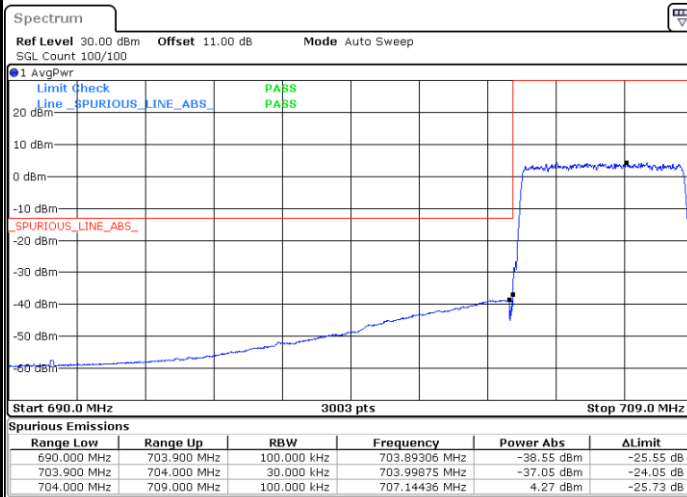
Date: 19.AUG.2020 13:16:27

Highest Band Edge / 1 RB



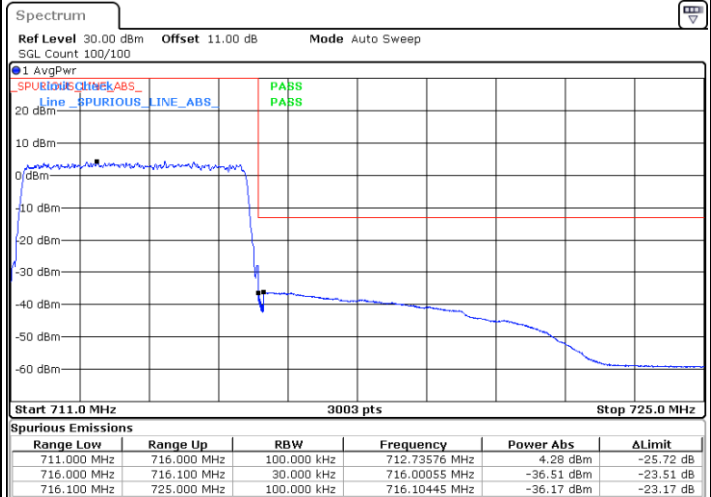
Date: 19.AUG.2020 13:20:48

Lowest Band Edge / Full RB



Date: 19.AUG.2020 13:15:24

Highest Band Edge / Full RB

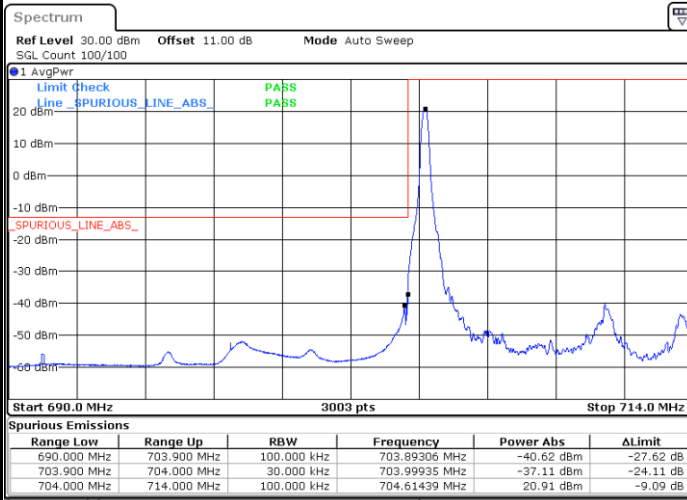


Date: 19.AUG.2020 13:18:32



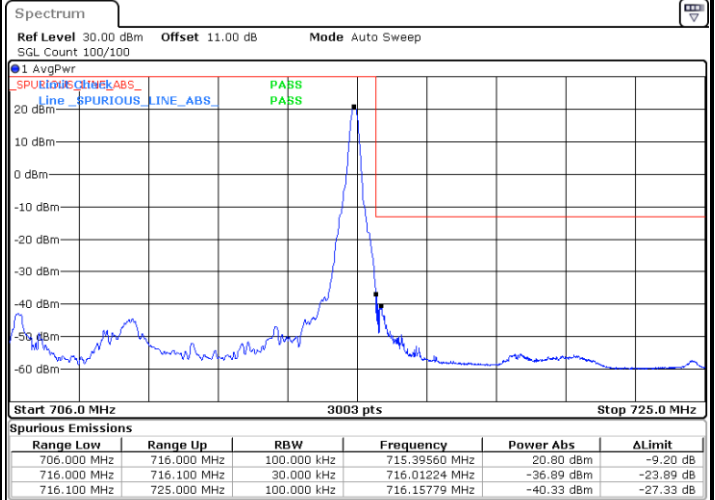
LTE Band 17 / 10MHz / QPSK

Lowest Band Edge / 1 RB



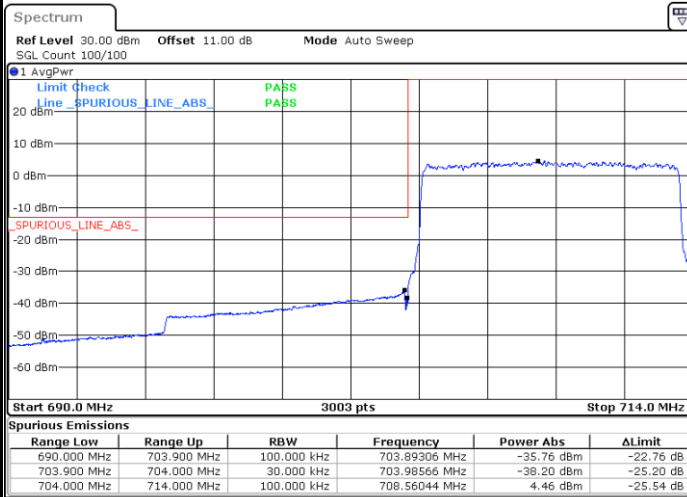
Date: 18.AUG.2020 13:25:53

Highest Band Edge / 1 RB



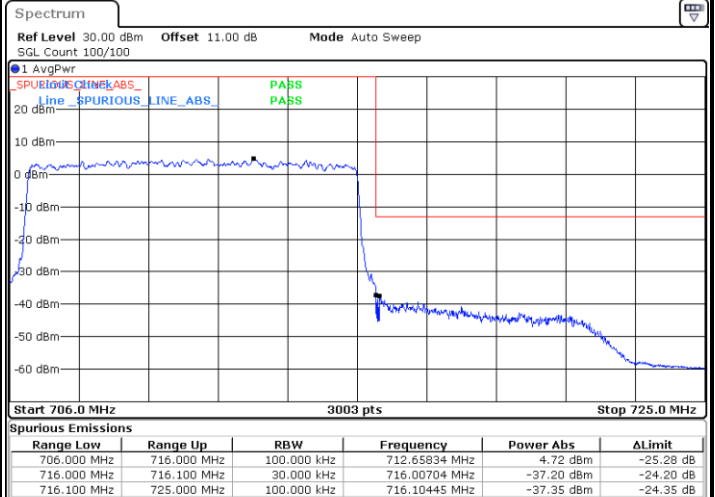
Date: 18.AUG.2020 13:32:56

Lowest Band Edge / Full RB



Date: 18.AUG.2020 13:27:21

Highest Band Edge / Full RB

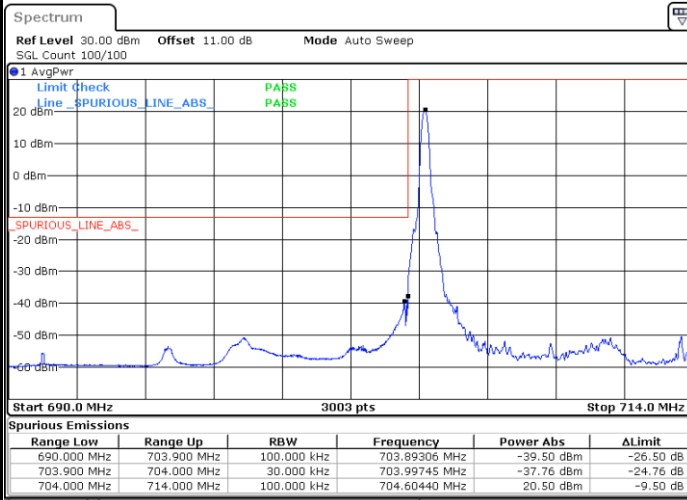


Date: 18.AUG.2020 13:34:16



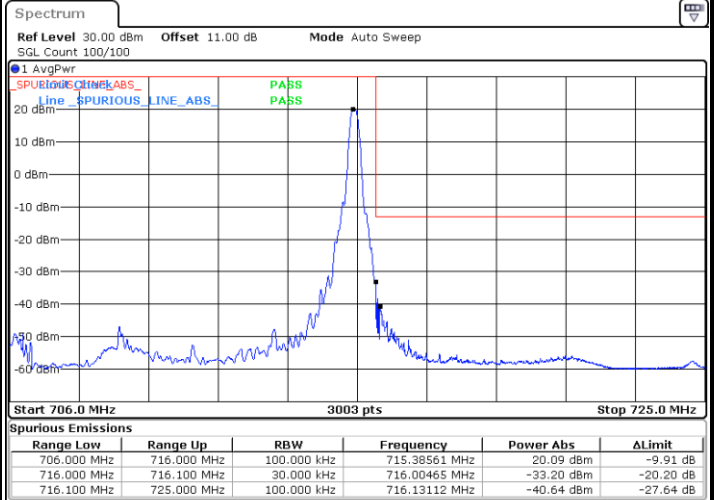
LTE Band 17 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



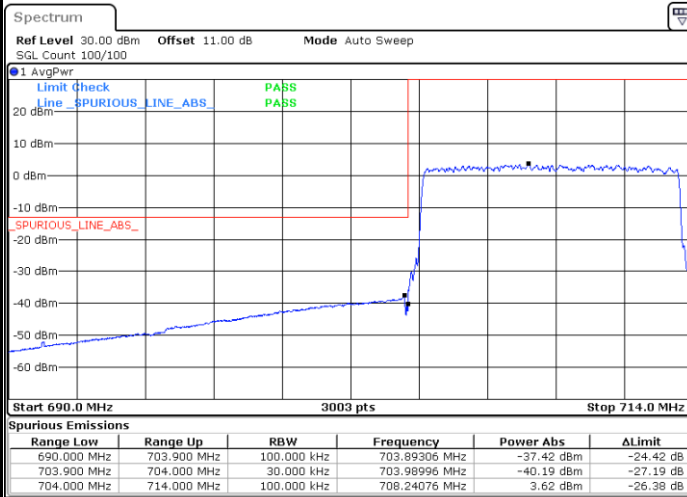
Date: 18.AUG.2020 13:26:37

Highest Band Edge / 1 RB



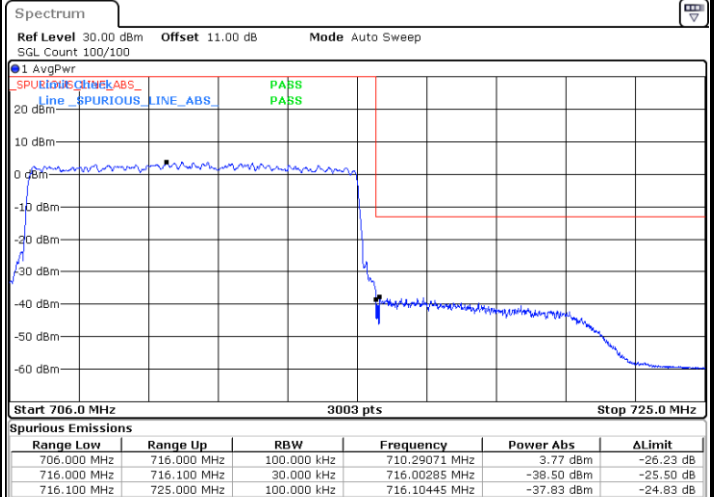
Date: 18.AUG.2020 13:33:35

Lowest Band Edge / Full RB



Date: 18.AUG.2020 13:28:04

Highest Band Edge / Full RB

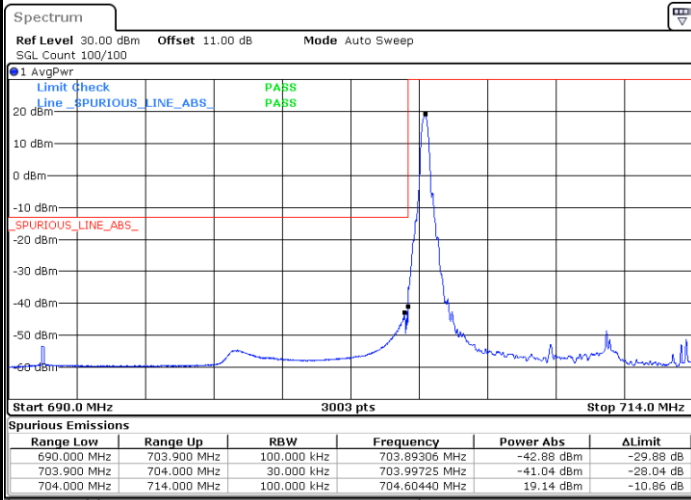


Date: 18.AUG.2020 13:34:55



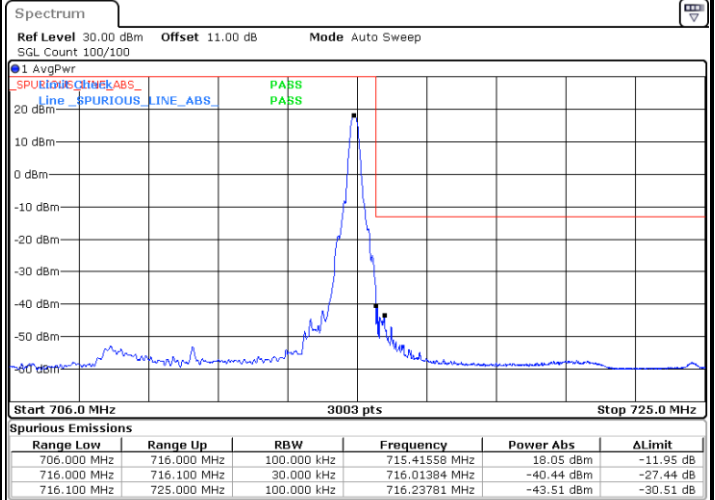
LTE Band 17 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



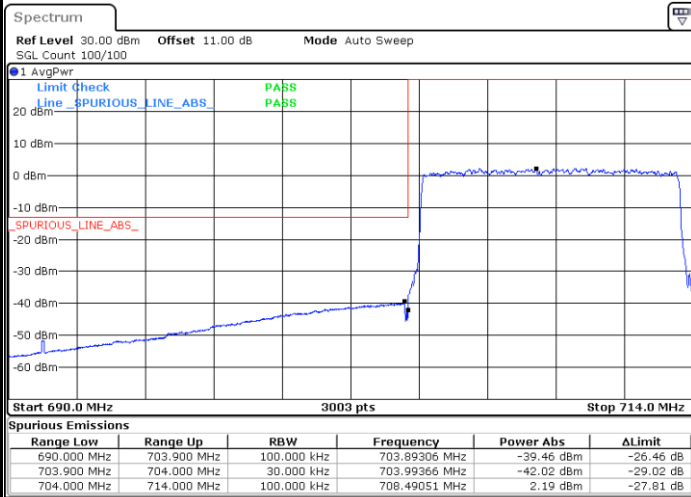
Date: 18.AUG.2020 13:43:19

Highest Band Edge / 1 RB



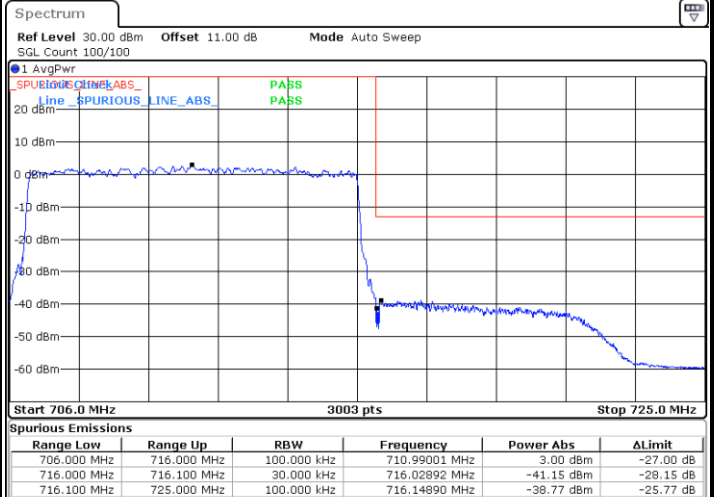
Date: 18.AUG.2020 13:46:48

Lowest Band Edge / Full RB



Date: 18.AUG.2020 13:44:03

Highest Band Edge / Full RB

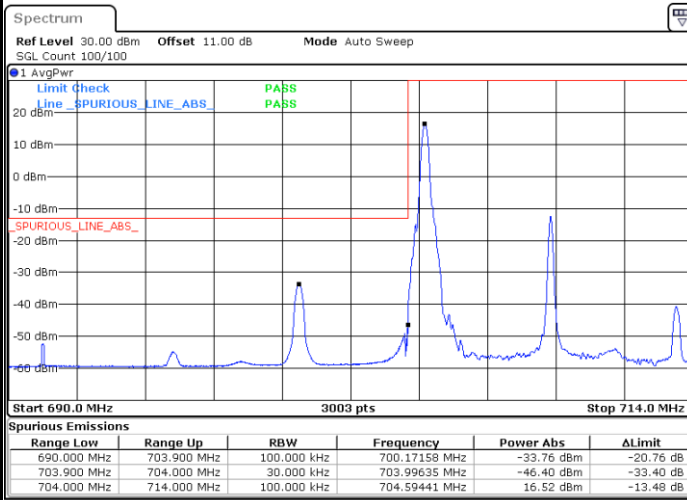


Date: 18.AUG.2020 13:47:28



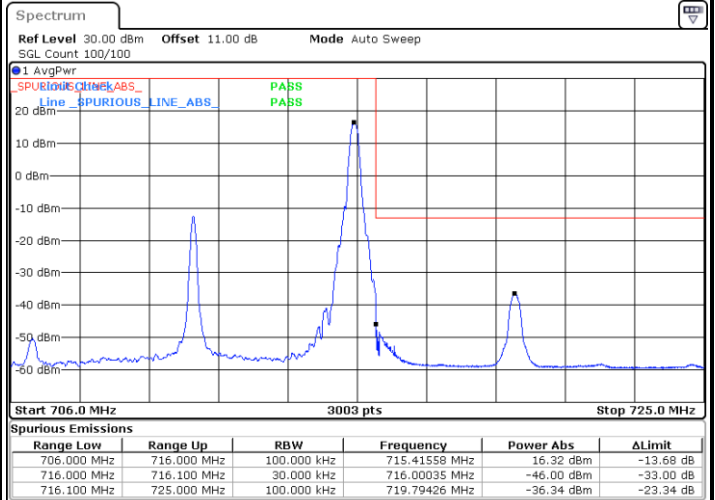
LTE Band 17 / 10MHz / 256QAM

Lowest Band Edge / 1 RB



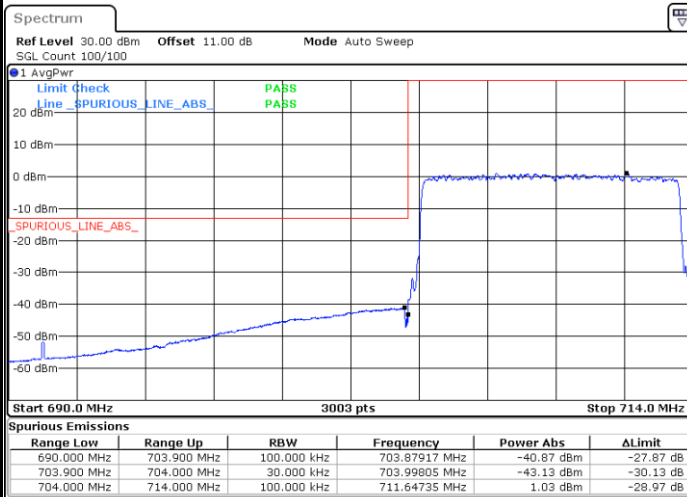
Date: 19.AUG.2020 13:28:20

Highest Band Edge / 1 RB



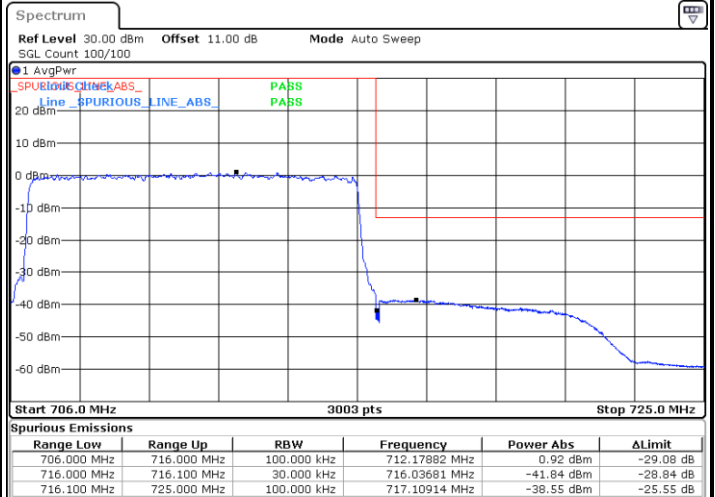
Date: 19.AUG.2020 13:43:08

Lowest Band Edge / Full RB



Date: 19.AUG.2020 13:27:03

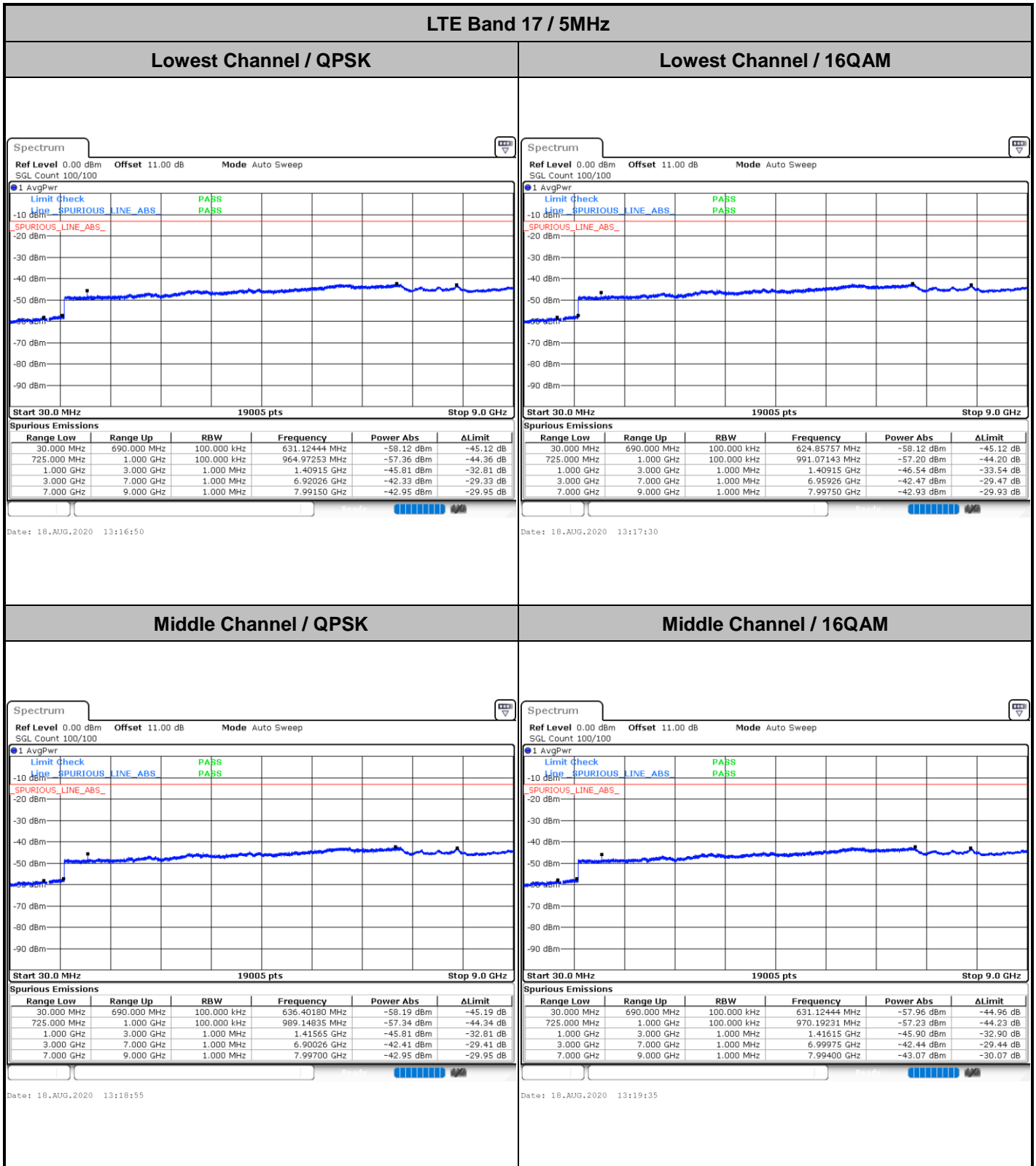
Highest Band Edge / Full RB



Date: 19.AUG.2020 13:41:00



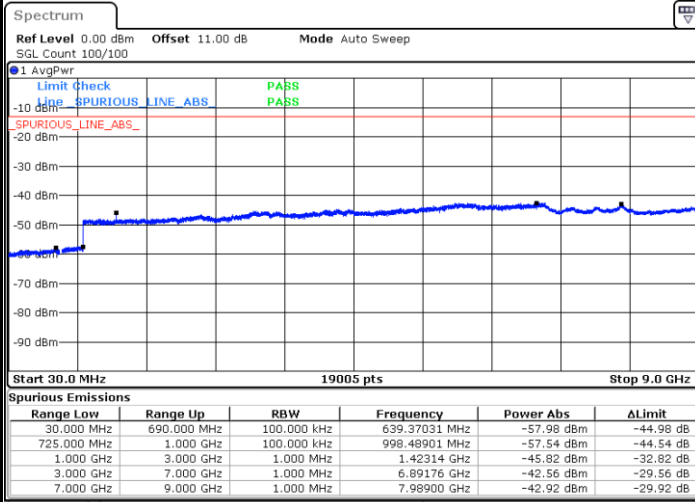
# Conducted Spurious Emission





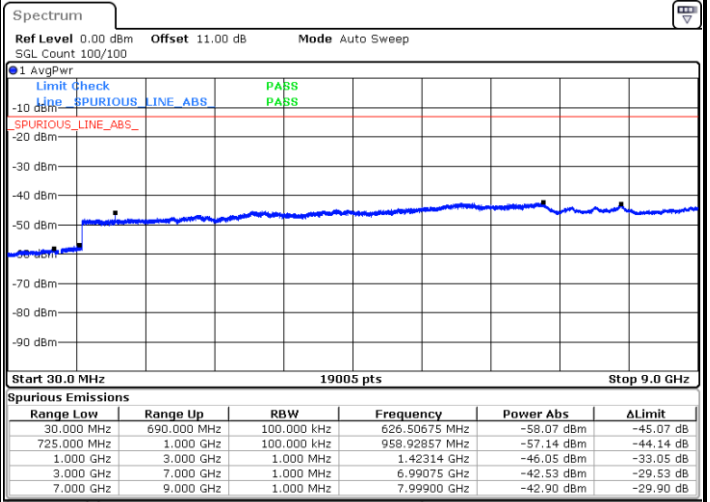
LTE Band 17 / 5MHz

Highest Channel / QPSK



Date: 18.AUG.2020 13:23:42

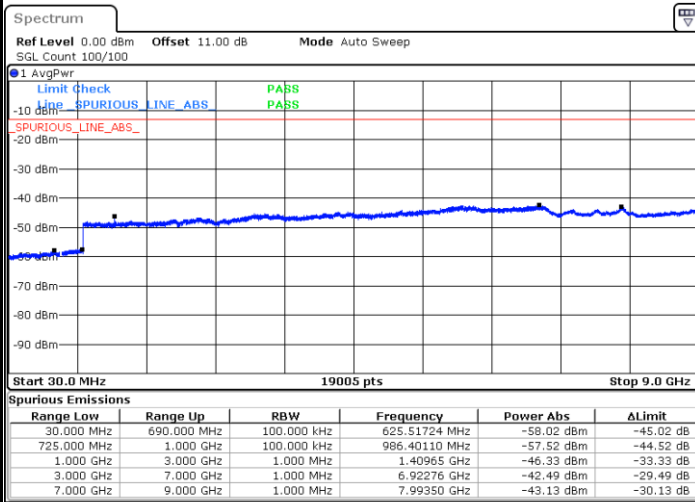
Highest Channel / 16QAM



Date: 18.AUG.2020 13:24:22

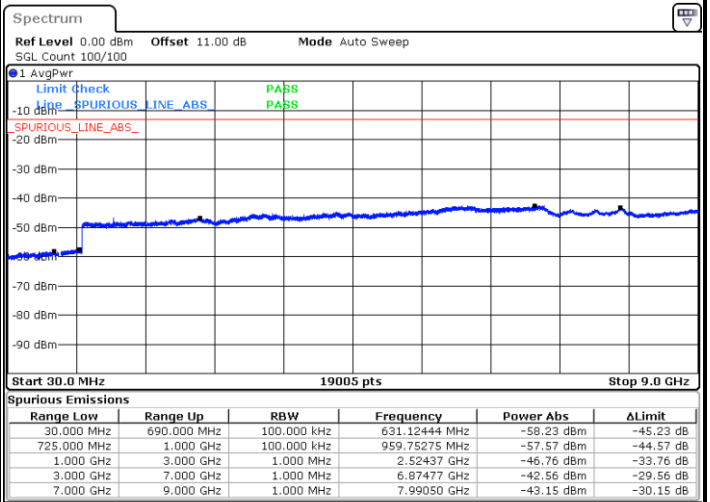
LTE Band 17 / 10MHz

Lowest Channel / QPSK



Date: 18.AUG.2020 13:28:45

Lowest Channel / 16QAM



Date: 18.AUG.2020 13:29:25

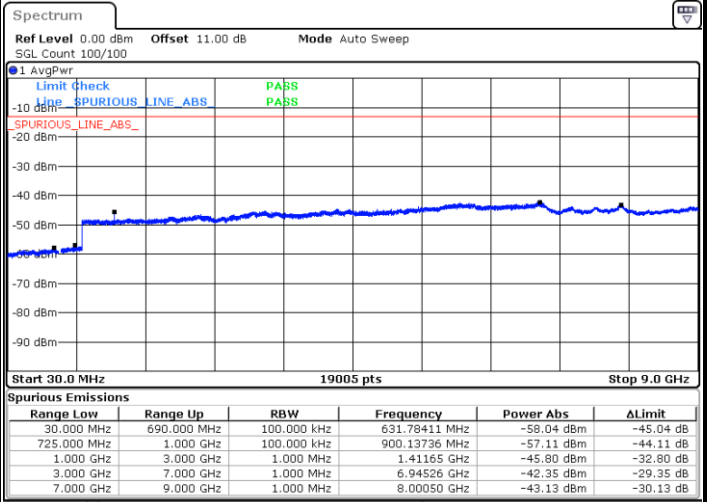
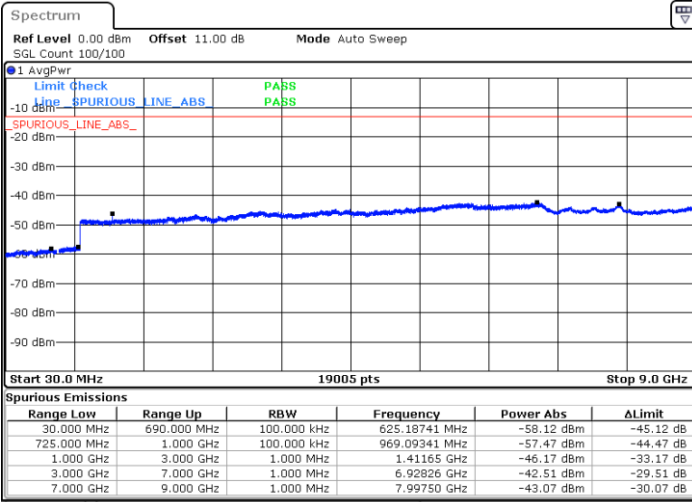




LTE Band 17 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

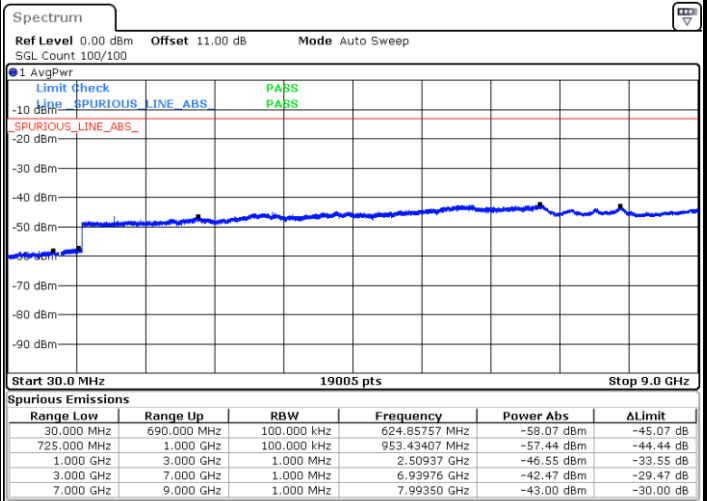
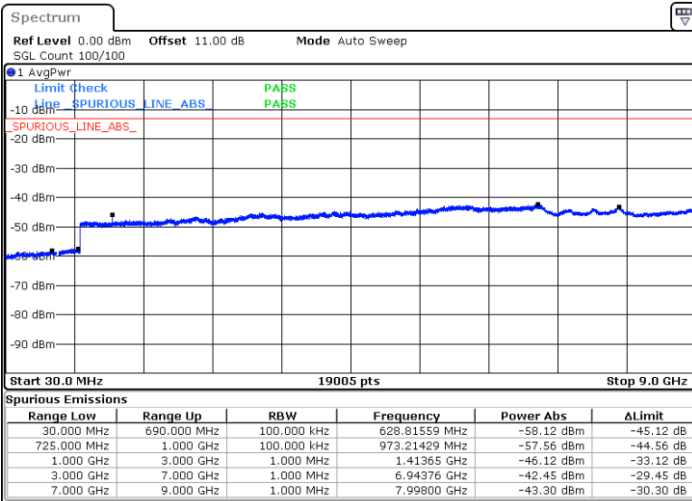


Date: 18.AUG.2020 13:30:50

Date: 18.AUG.2020 13:31:29

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 18.AUG.2020 13:35:36

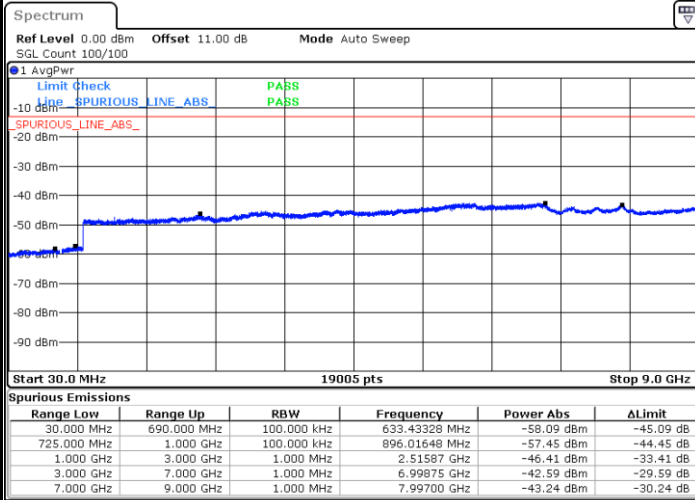
Date: 18.AUG.2020 13:36:16



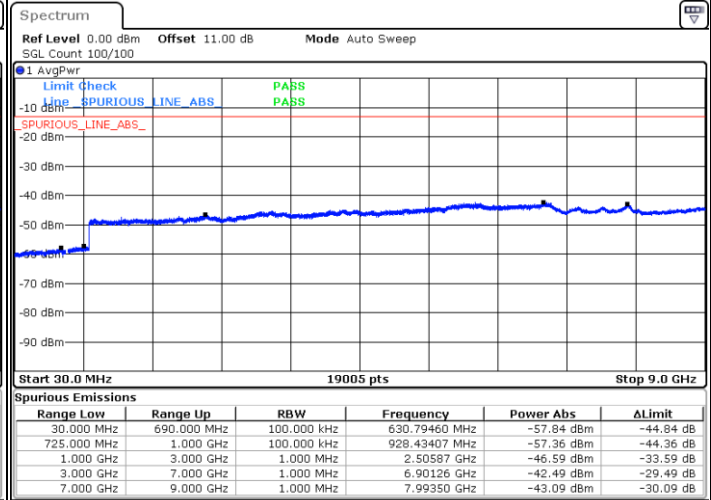
LTE Band 17 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

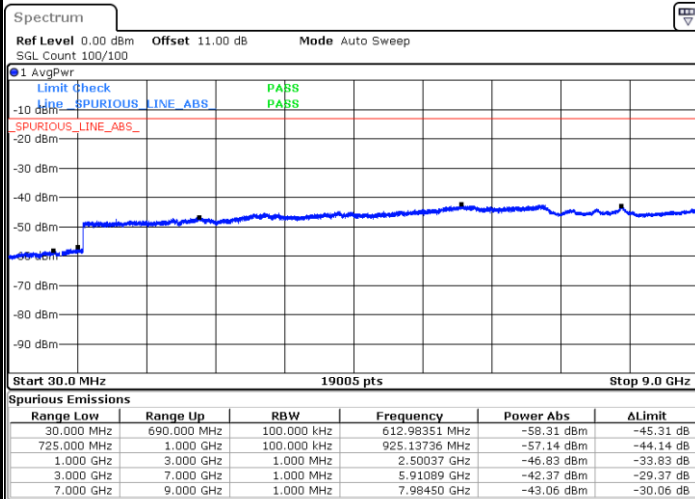


Date: 18.AUG.2020 13:38:47



Date: 18.AUG.2020 13:39:49

Highest Channel / 64QAM



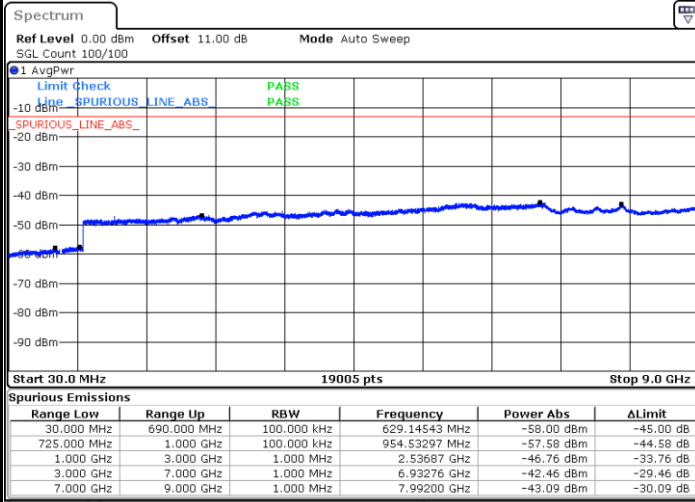
Date: 18.AUG.2020 13:42:12



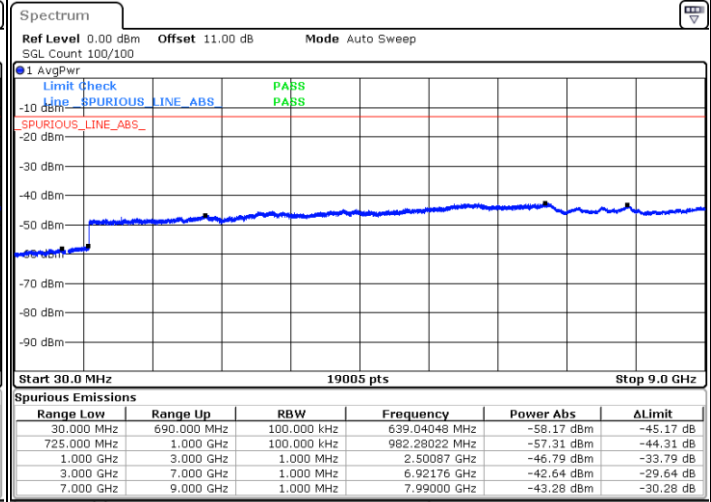
LTE Band 17 / 10MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

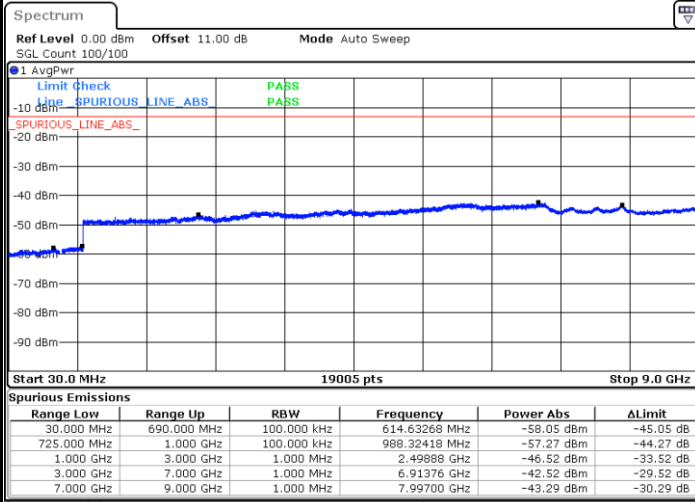


Date: 18.AUG.2020 13:44:43



Date: 18.AUG.2020 13:45:45

Highest Channel / 64QAM



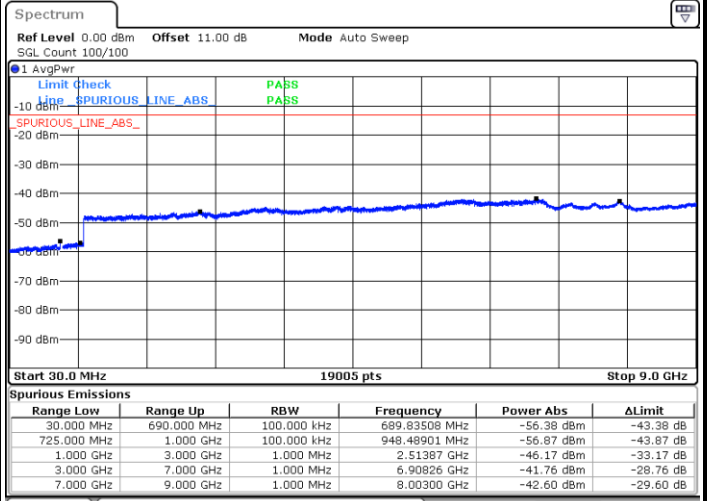
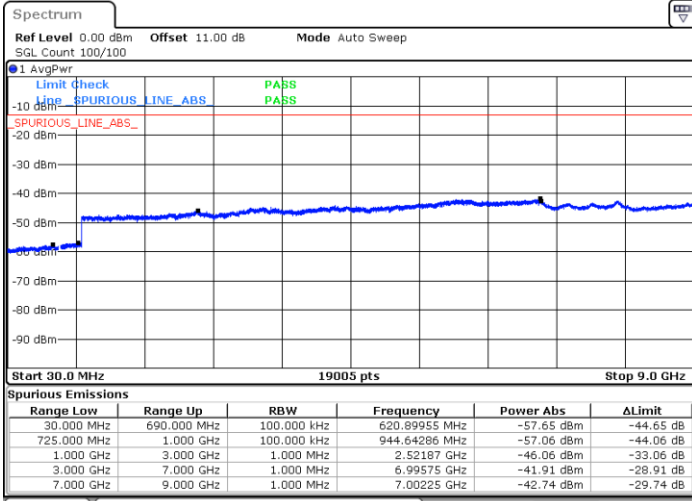
Date: 18.AUG.2020 13:48:08



LTE Band 17 / 5MHz

Lowest Channel / 256QAM

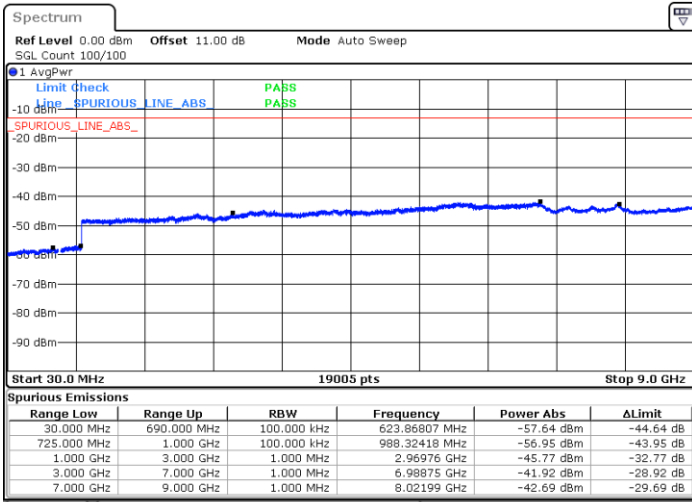
Middle Channel / 256QAM



Date: 19.AUG.2020 13:16:51

Date: 19.AUG.2020 13:13:53

Highest Channel / 256QAM



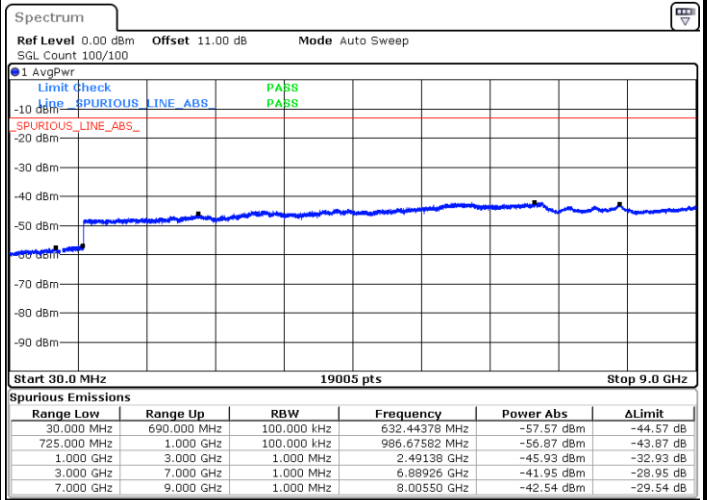
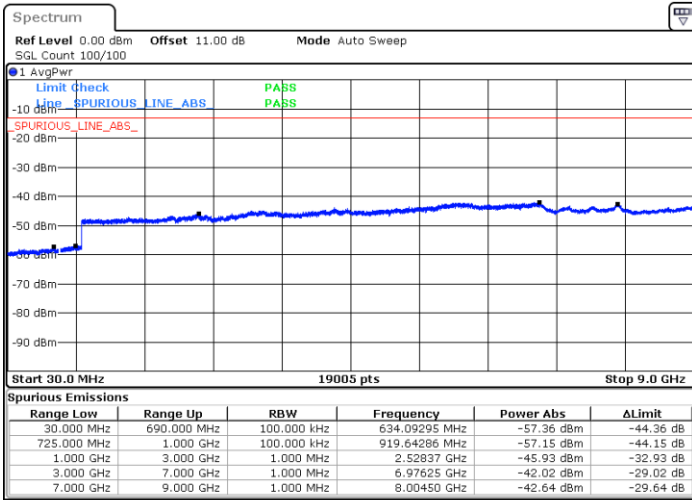
Date: 19.AUG.2020 13:19:26



LTE Band 17 / 10MHz

Lowest Channel / 256QAM

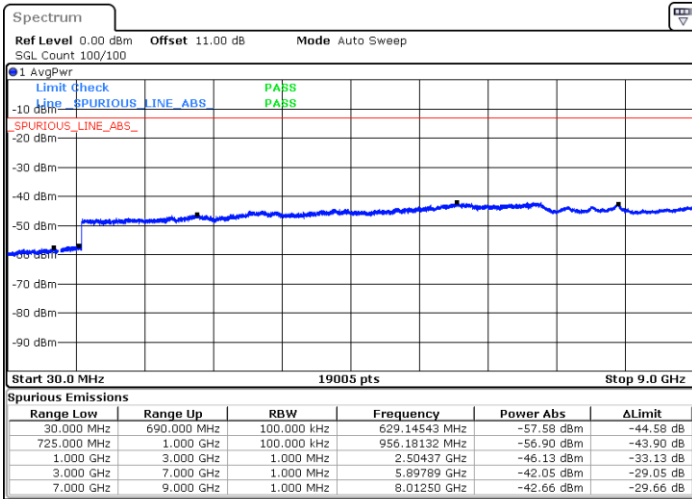
Middle Channel / 256QAM



Date: 19.AUG.2020 13:38:33

Date: 19.AUG.2020 13:24:50

Highest Channel / 256QAM



Date: 19.AUG.2020 13:41:55



**Frequency Stability**

Test Conditions		LTE Band 17 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0024	PASS
40	Normal Voltage	0.0093	
30	Normal Voltage	0.0187	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0104	
0	Normal Voltage	0.0100	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0237	
-30	Normal Voltage	0.0207	
20	Maximum Voltage	0.0069	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0018	

**Note:**

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.3 V. ; Maximum Voltage =4.25 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 25

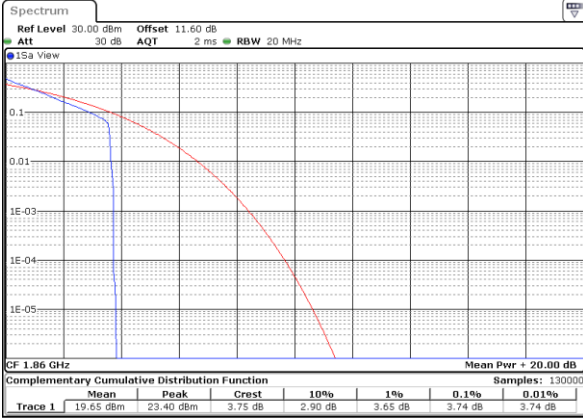
## Peak-to-Average Ratio

Mode	LTE Band 25 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.74	5.07	5.30	5.97	<b>PASS</b>
Middle CH	3.51	5.10	5.57	5.88	
Highest CH	3.68	5.10	5.68	6.06	
Mode	LTE Band 25 / 20MHz				
Mod.	64QAM		256QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	6.70	6.55	6.61	6.67	<b>PASS</b>
Middle CH	6.72	6.46	5.65	6.52	
Highest CH	6.32	6.61	7.91	6.75	



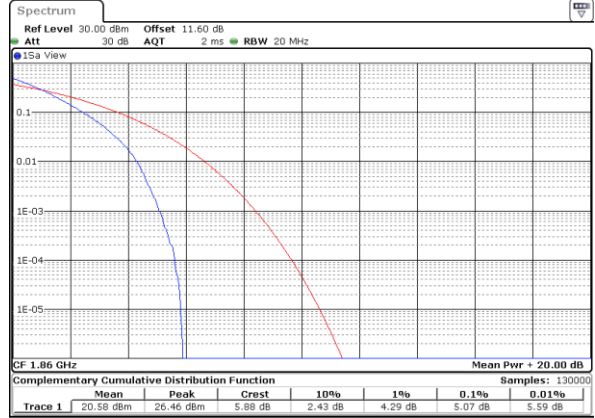
LTE Band 25 / 20MHz / QPSK

Lowest Channel / 1RB



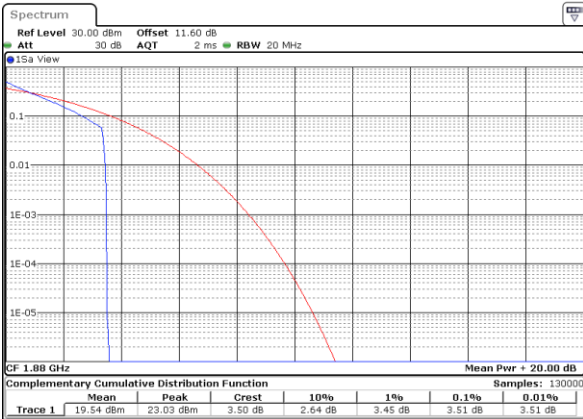
Date: 1.AUG.2020 17:46:14

Lowest Channel / Full RB



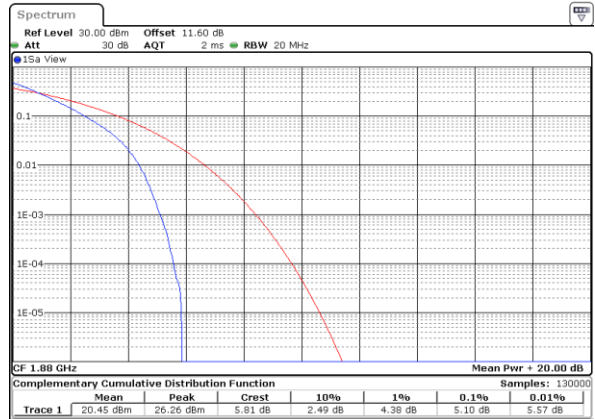
Date: 1.AUG.2020 17:46:28

Middle Channel / 1RB



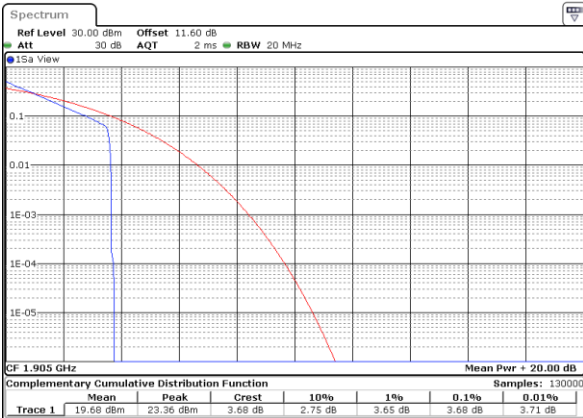
Date: 1.AUG.2020 17:47:02

Middle Channel / Full RB



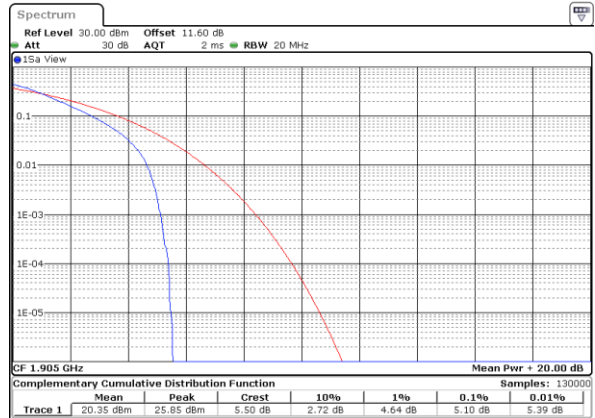
Date: 1.AUG.2020 17:47:13

Highest Channel / 1RB



Date: 1.AUG.2020 17:47:45

Highest Channel / Full RB



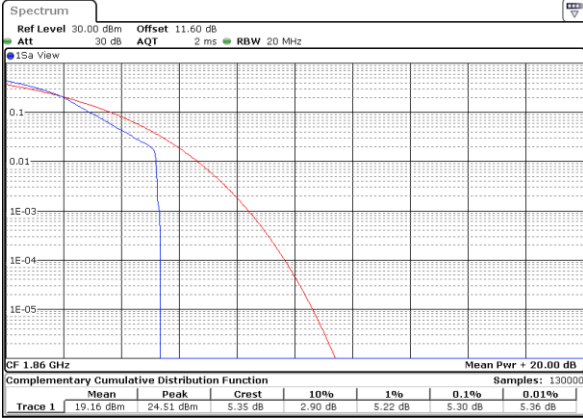
Date: 1.AUG.2020 17:47:56





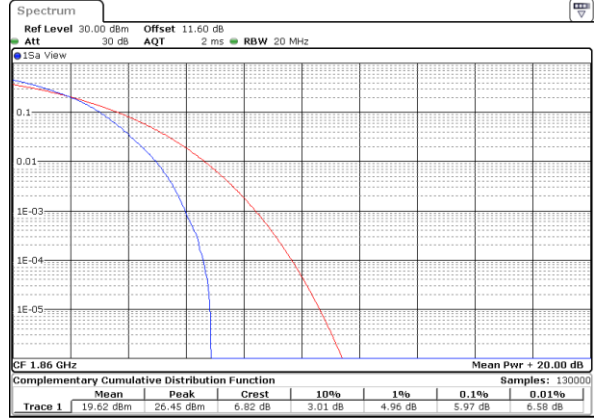
LTE Band 25 / 20MHz / 16QAM

Lowest Channel / 1RB



Date: 1.AUG.2020 17:45:49

Lowest Channel / Full RB



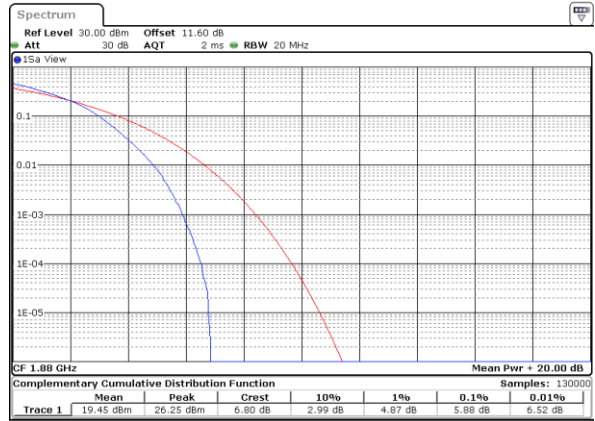
Date: 1.AUG.2020 17:45:59

Middle Channel / 1RB



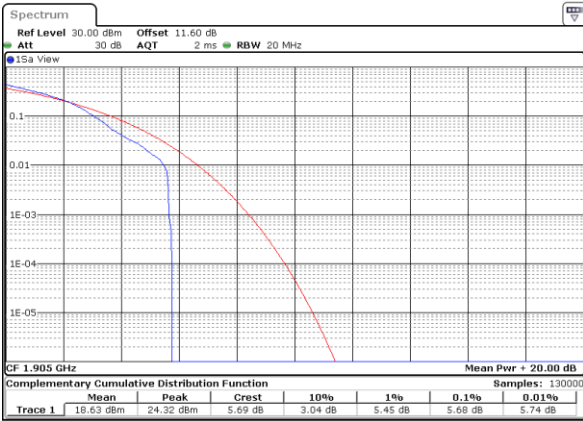
Date: 1.AUG.2020 17:46:39

Middle Channel / Full RB



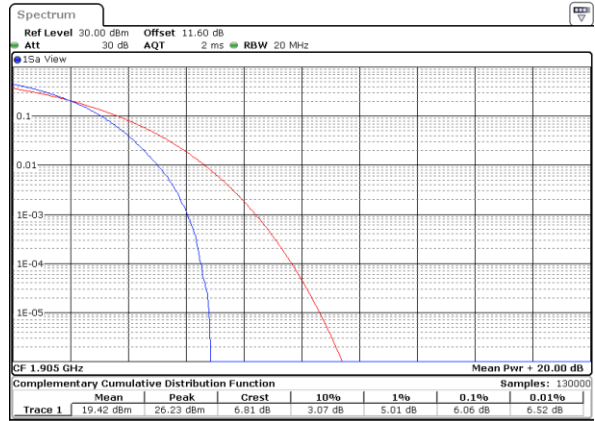
Date: 1.AUG.2020 17:46:51

Highest Channel / 1RB



Date: 1.AUG.2020 17:47:23

Highest Channel / Full RB

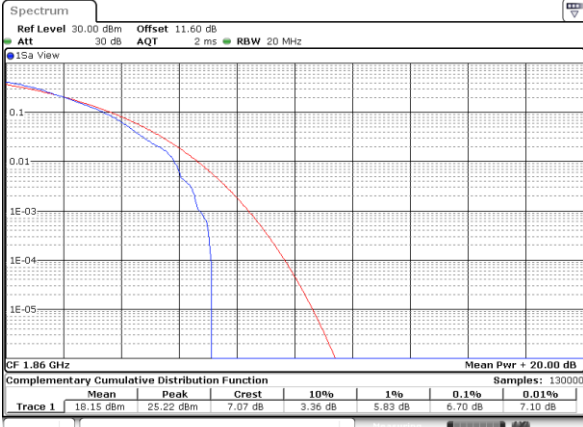


Date: 1.AUG.2020 17:47:34



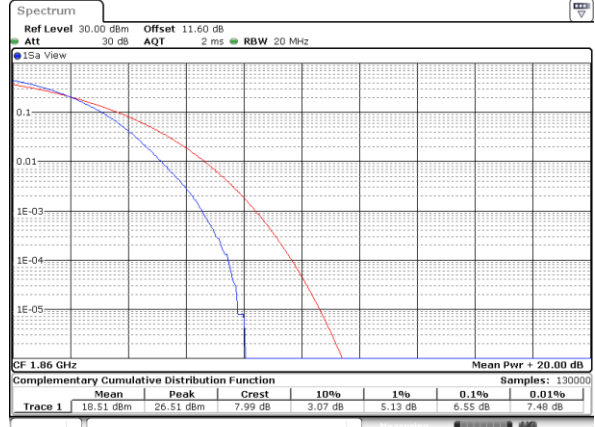
LTE Band 25 / 20MHz / 64QAM

Lowest Channel / 1RB



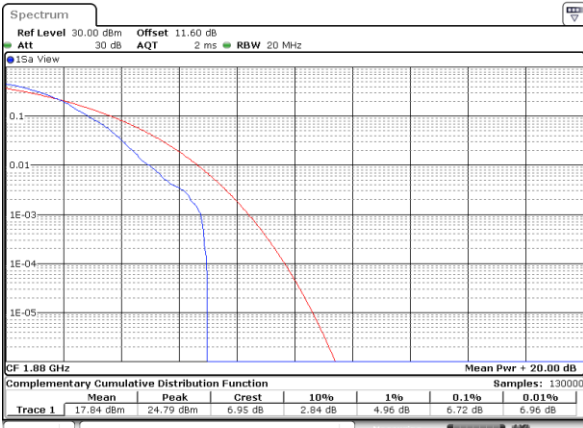
Date: 1.AUG.2020 17:44:42

Lowest Channel / Full RB



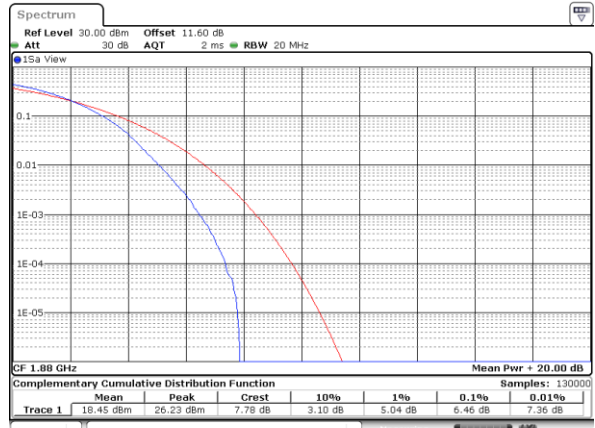
Date: 1.AUG.2020 17:44:53

Middle Channel / 1RB



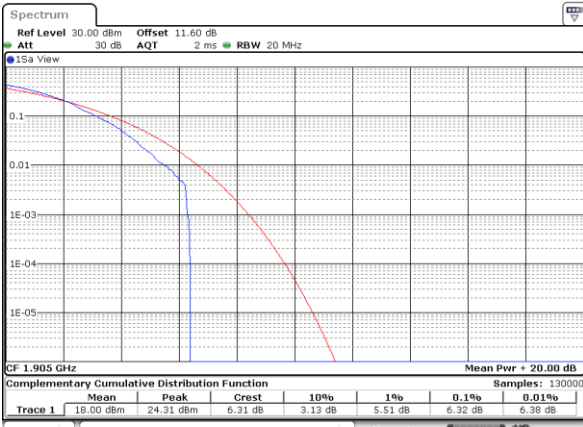
Date: 1.AUG.2020 17:45:04

Middle Channel / Full RB



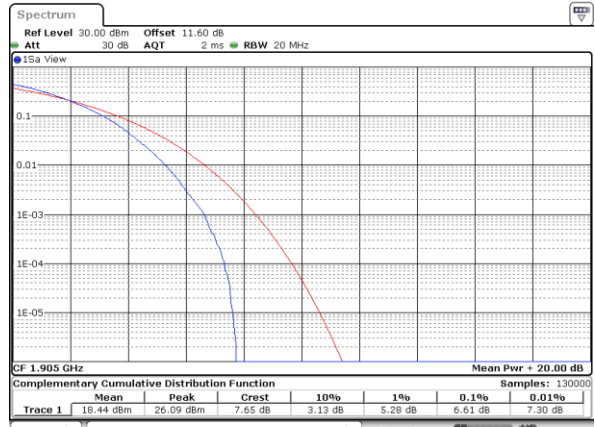
Date: 1.AUG.2020 17:45:14

Highest Channel / 1RB



Date: 1.AUG.2020 17:45:25

Highest Channel / Full RB

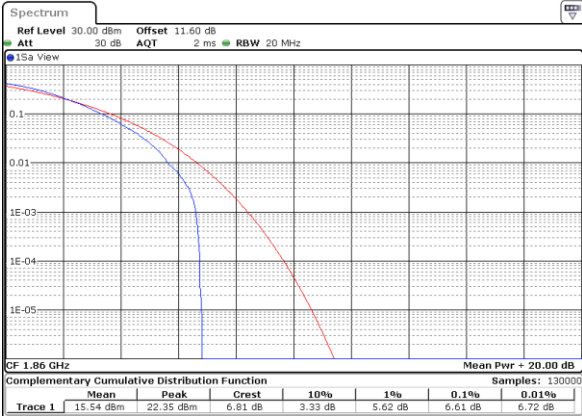


Date: 1.AUG.2020 17:45:38



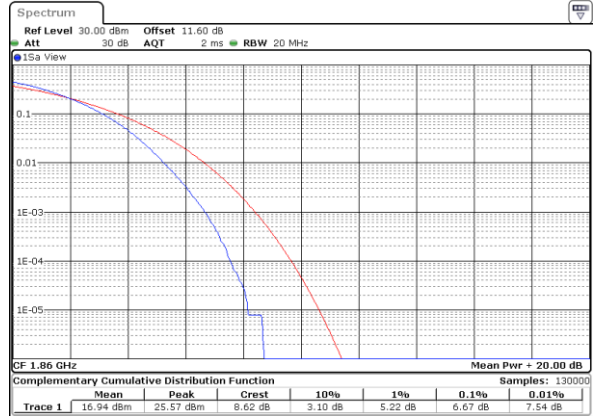
LTE Band 25 / 20MHz / 256QAM

Lowest Channel / 1RB



Date: 9.AUG.2020 12:30:02

Lowest Channel / Full RB



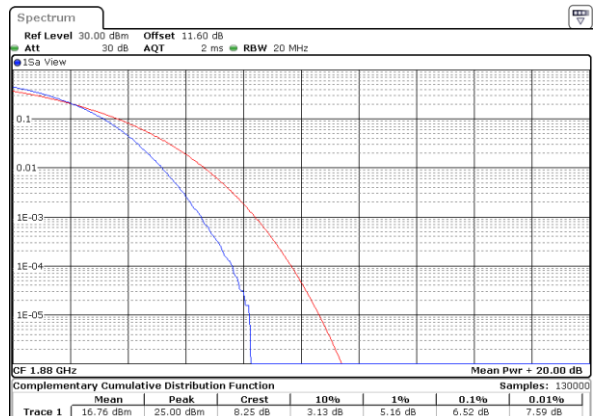
Date: 9.AUG.2020 12:29:24

Middle Channel / 1RB



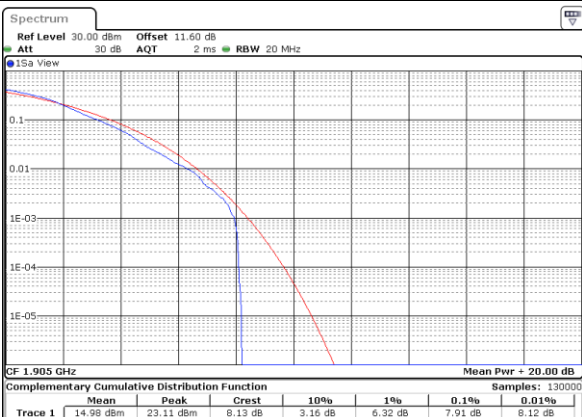
Date: 9.AUG.2020 12:28:16

Middle Channel / Full RB



Date: 9.AUG.2020 12:28:30

Highest Channel / 1RB



Date: 9.AUG.2020 12:32:51

Highest Channel / Full RB



Date: 9.AUG.2020 12:32:37



**26dB Bandwidth**

Mode	LTE Band 25 : 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	1.22	1.24	3.03	3.04	4.96	4.92	9.77	9.85	14.21	14.24	18.70	18.66
Middle CH	1.23	1.22	3.06	3.00	4.86	4.99	9.71	9.71	14.30	14.66	19.14	18.86
Highest CH	1.24	1.23	2.99	2.99	4.92	4.90	9.77	9.71	14.51	14.42	18.90	18.98
Mode	LTE Band 25 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Lowest CH	1.23	1.23	3.05	3.03	4.83	4.93	9.85	9.95	14.33	14.33	18.66	18.90
Middle CH	1.20	1.23	3.03	3.02	4.90	4.96	9.75	9.67	14.12	14.15	18.90	19.10
Highest CH	1.22	1.23	3.01	3.02	4.96	4.96	9.79	9.73	14.18	14.18	18.70	19.26