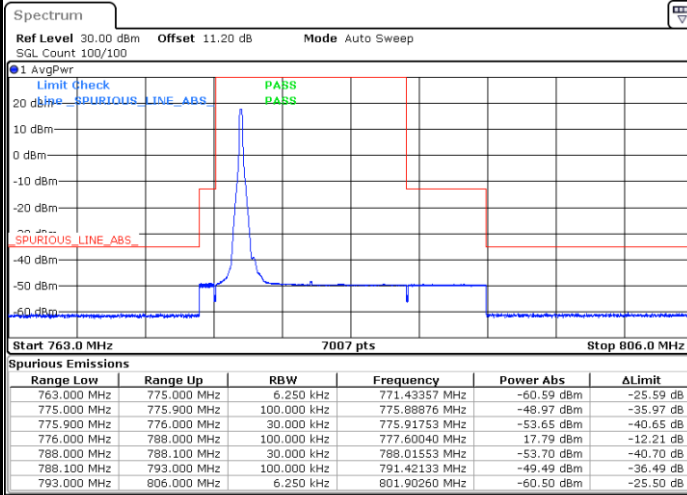




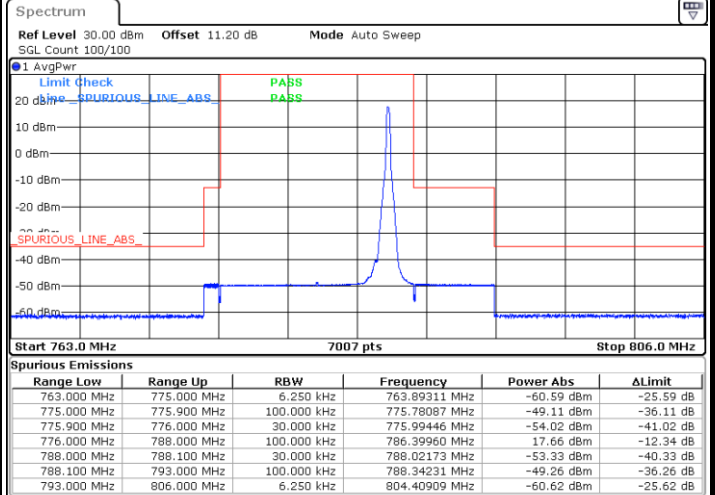
LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



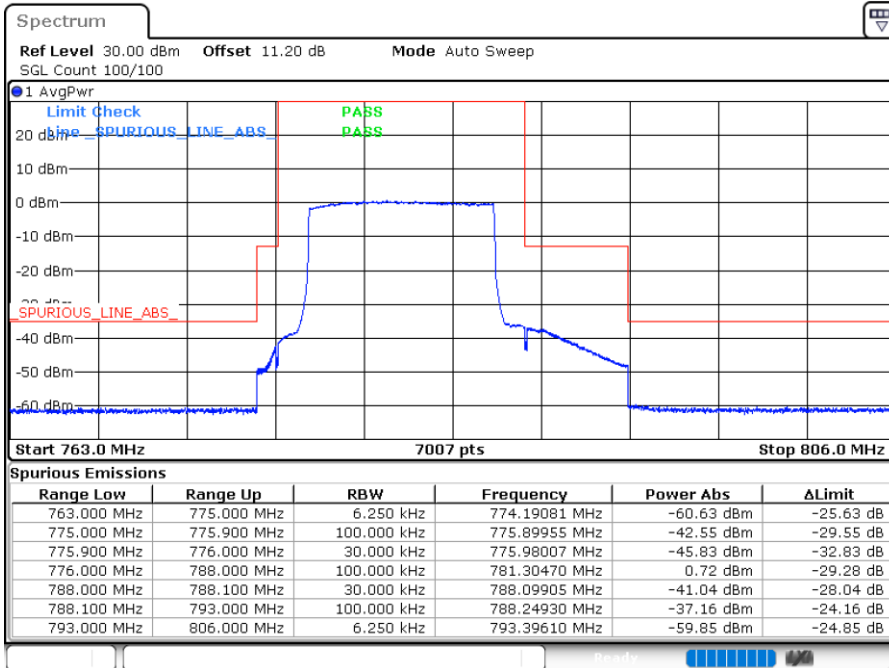
Date: 7.JUN.2020 13:23:00

Highest Band Edge / 1 RB



Date: 7.JUN.2020 13:24:40

Band Edge / Full RB



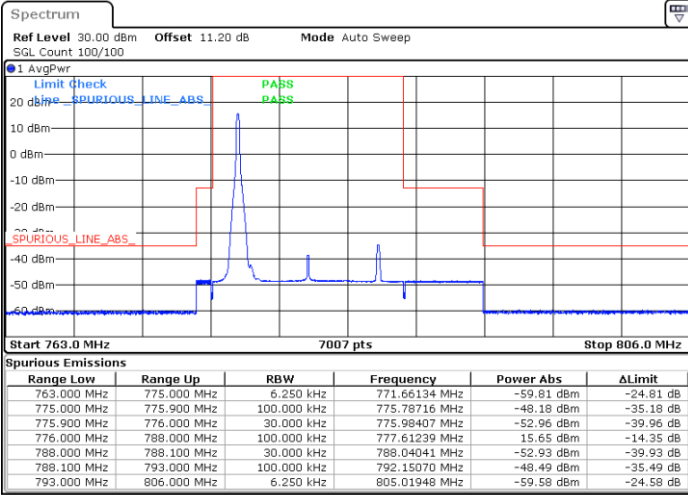
Date: 7 JUN 2020 13:21:21



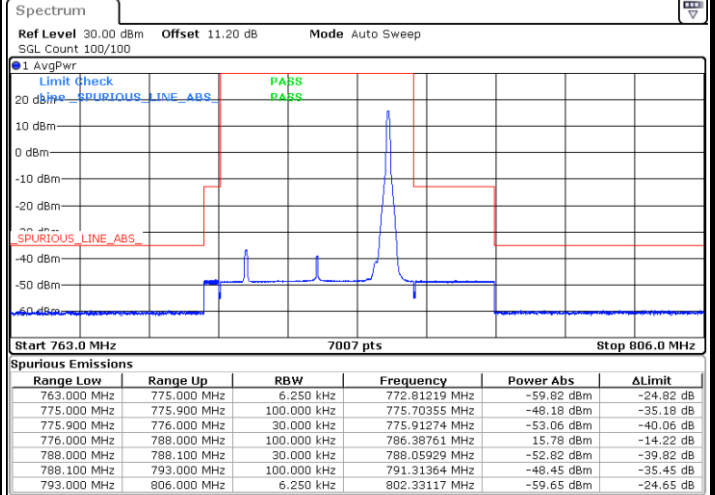
LTE Band 13 / 10MHz / 256QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

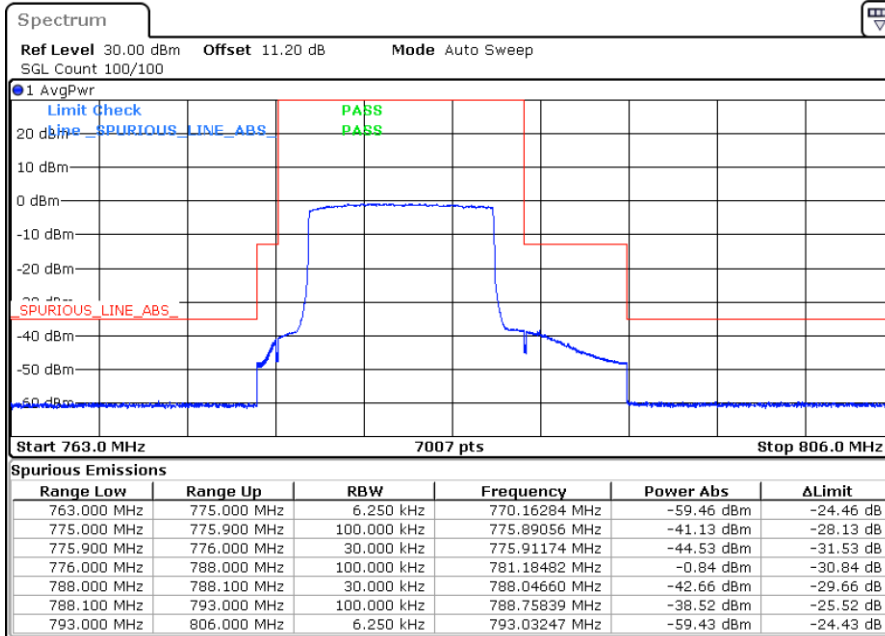


Date: 16.JUL.2020 11:56:29



Date: 16.JUL.2020 12:00:43

Band Edge / Full RB



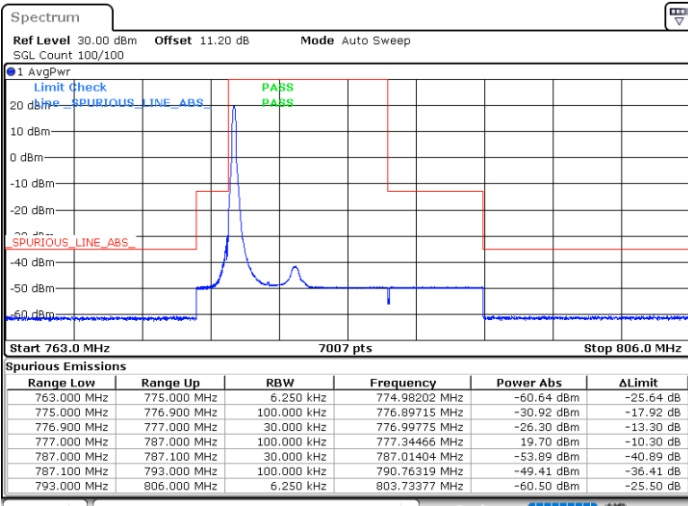
Date: 16.JUL.2020 11:54:05



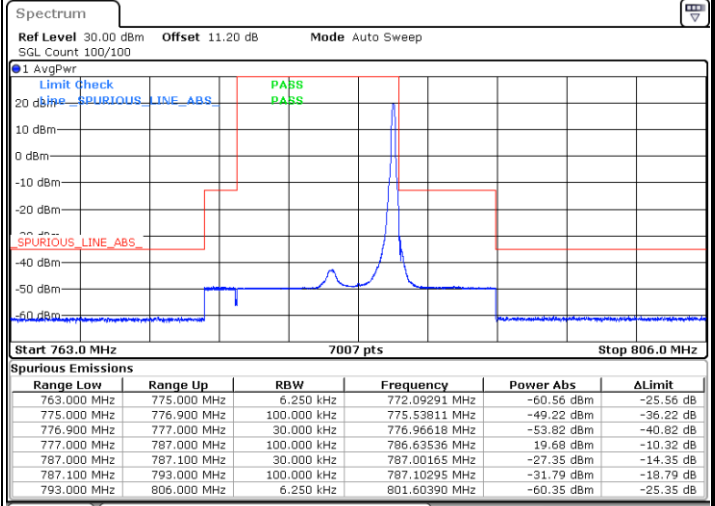
IC LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



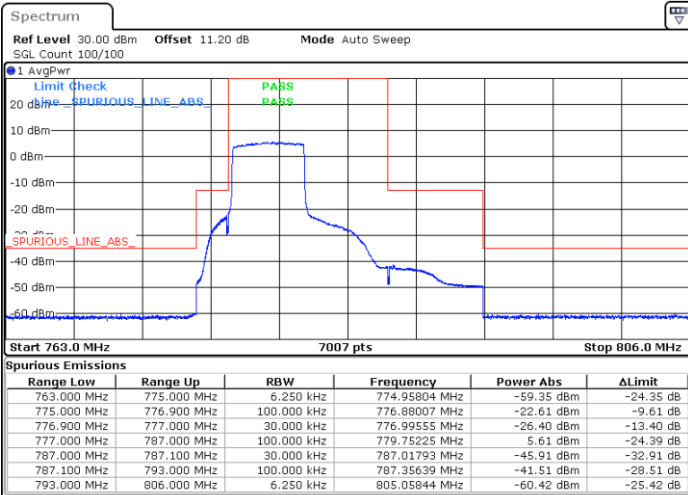
Date: 7 JUN.2020 13:35:08



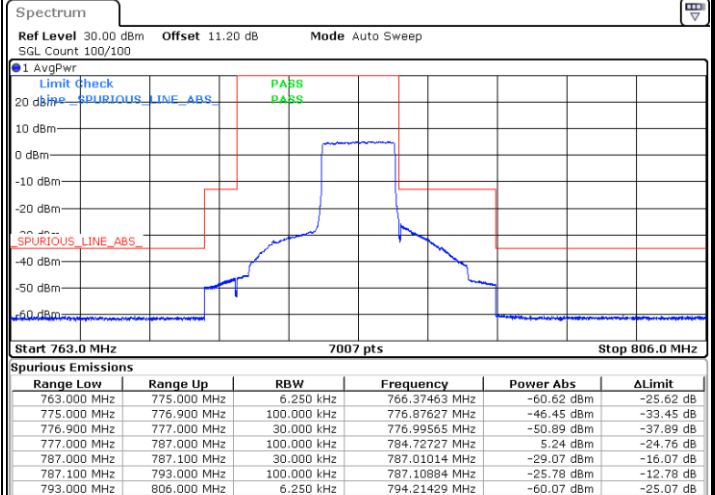
Date: 7 JUN.2020 13:41:49

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 7 JUN.2020 13:30:08



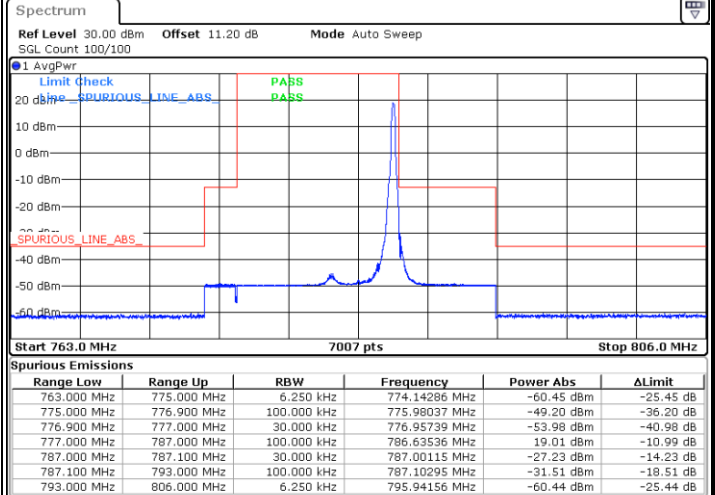
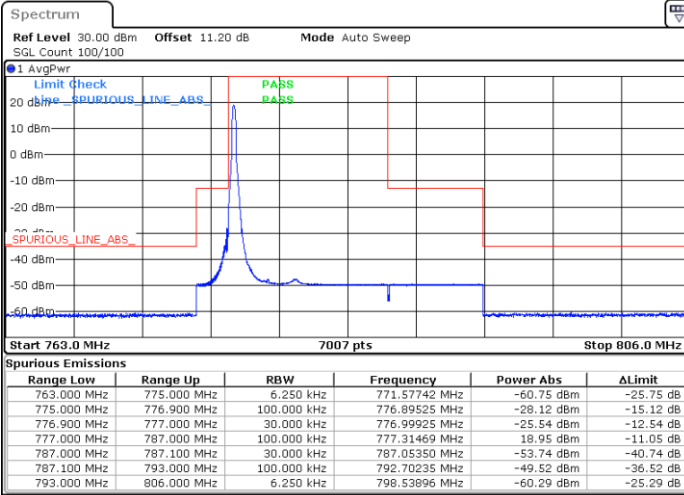
Date: 7 JUN.2020 13:36:49



IC LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

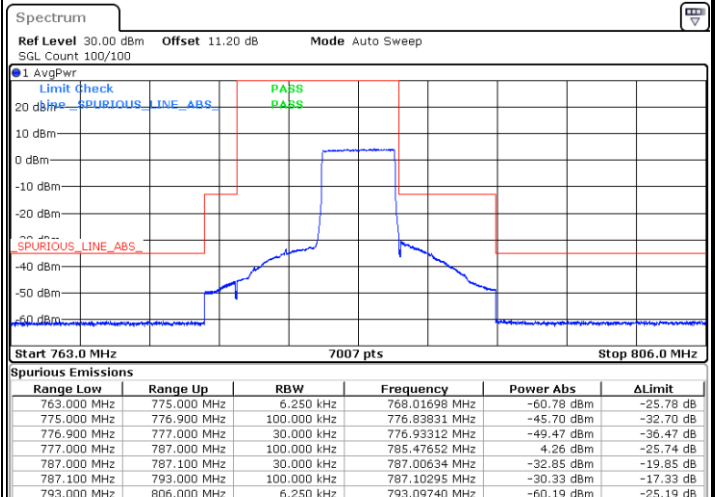
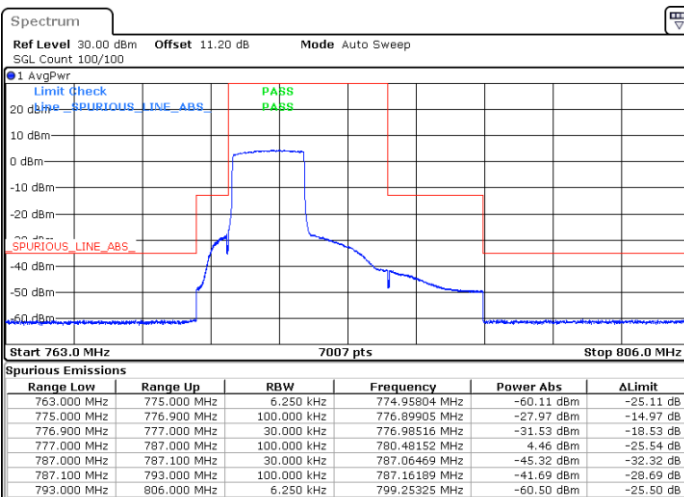


Date: 7 JUN.2020 13:33:28

Date: 7 JUN.2020 13:40:09

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 7 JUN.2020 13:31:48

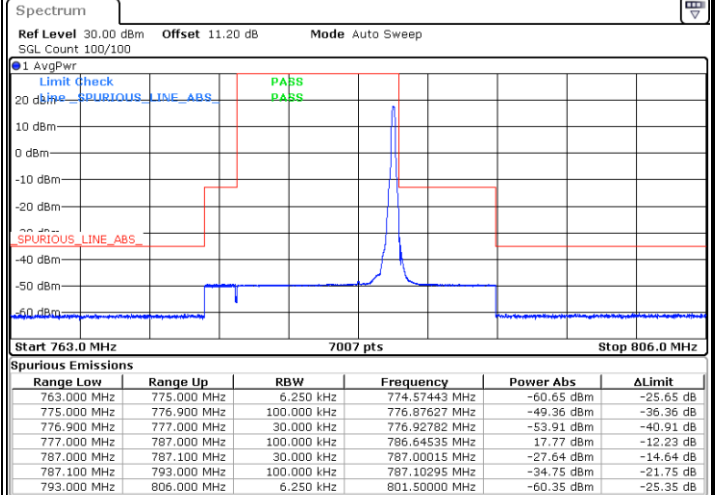
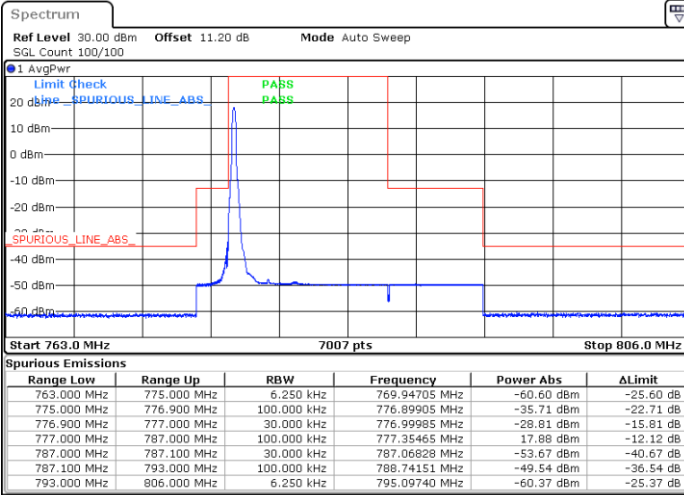
Date: 7 JUN.2020 13:38:28



IC LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

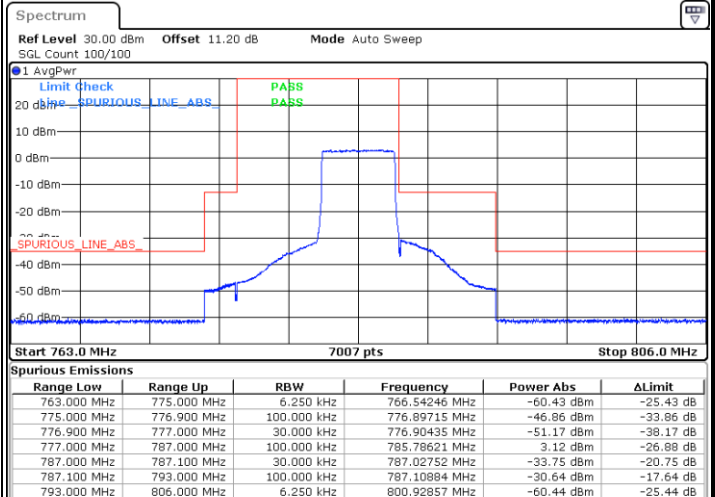
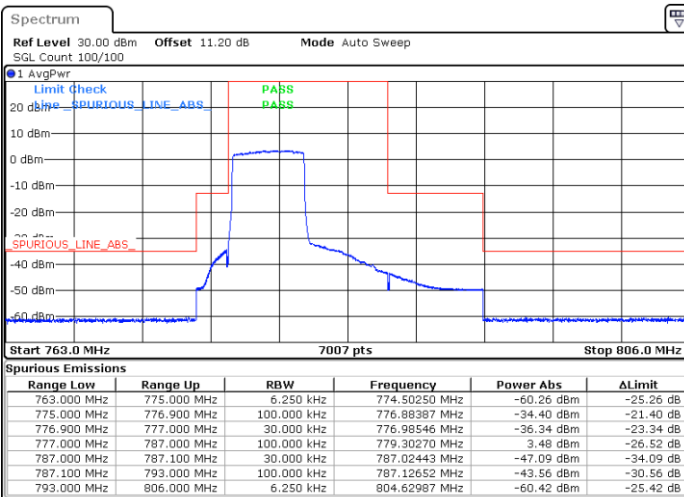


Date: 7 JUN.2020 13:45:09

Date: 7 JUN.2020 13:48:29

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 7 JUN.2020 13:43:29

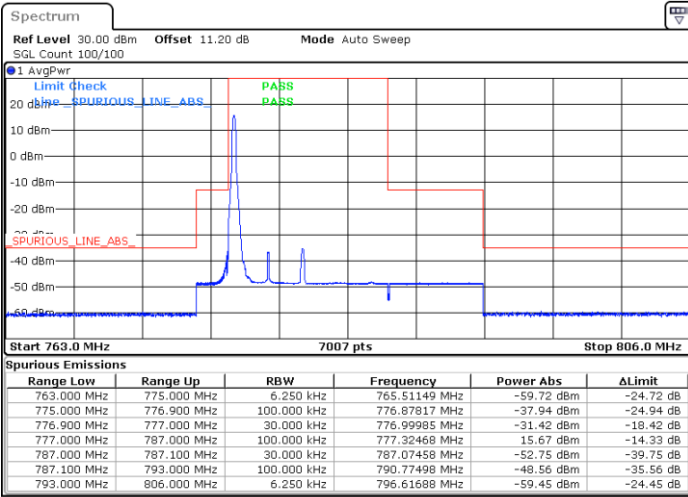
Date: 7 JUN.2020 13:46:49



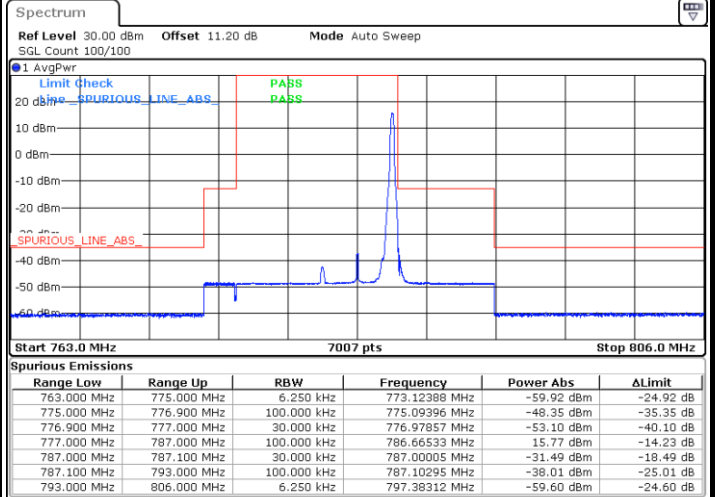
IC LTE Band 13 / 5MHz / 256QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



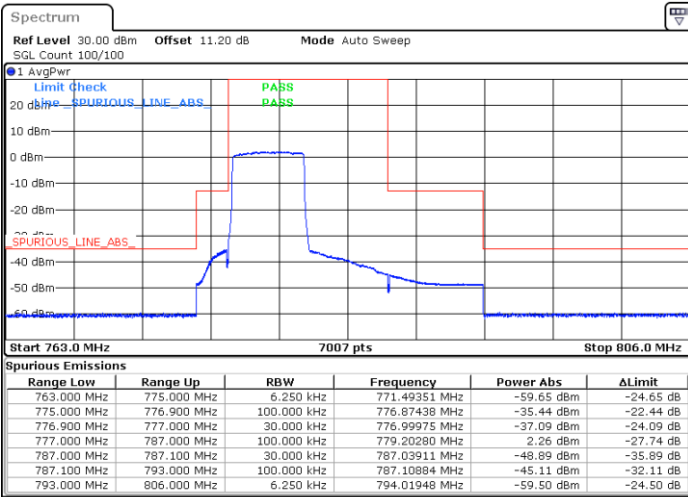
Date: 16.JUL.2020 11:38:35



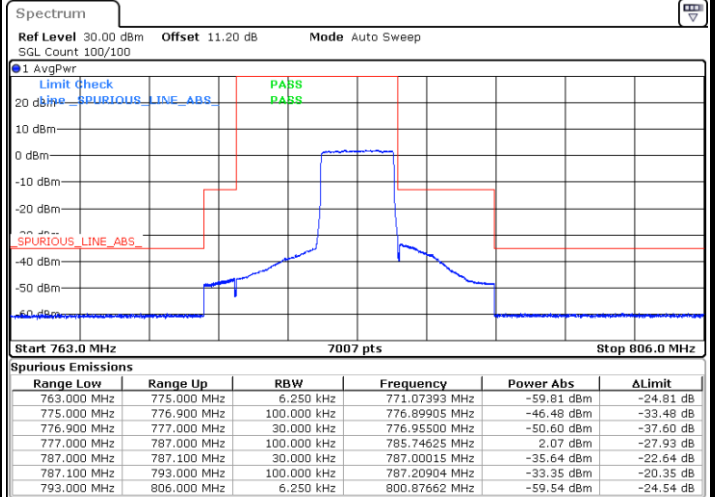
Date: 16.JUL.2020 11:49:03

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 16.JUL.2020 11:39:48



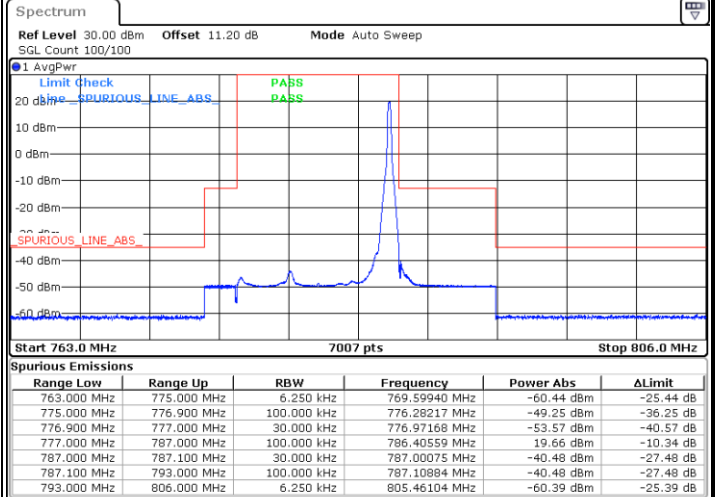
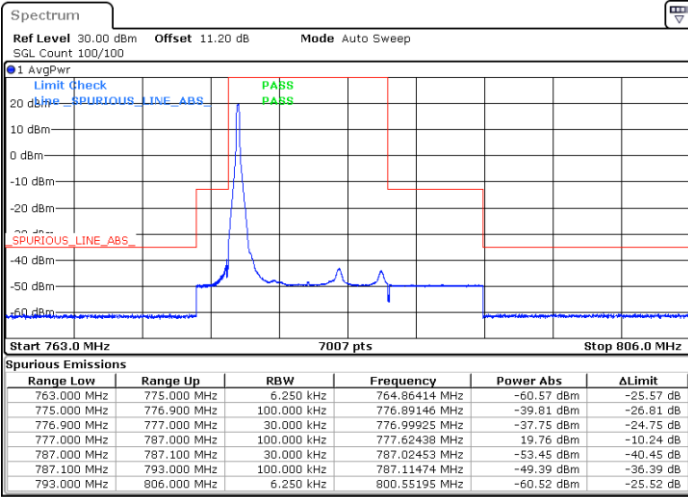
Date: 16.JUL.2020 11:47:48



IC LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB

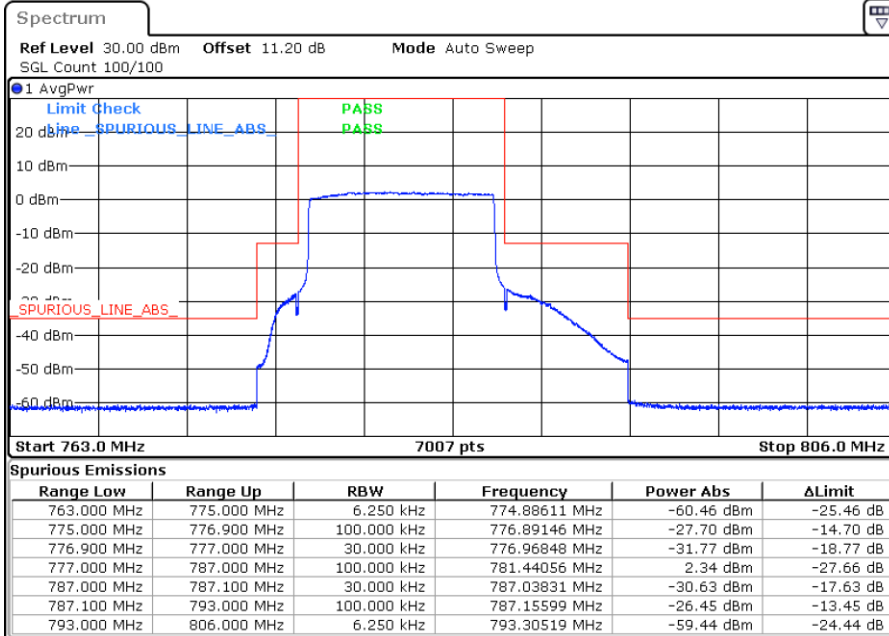
Highest Band Edge / 1 RB



Date: 7 JUN 2020 14:00:06

Date: 7 JUN 2020 14:01:45

Band Edge / Full RB



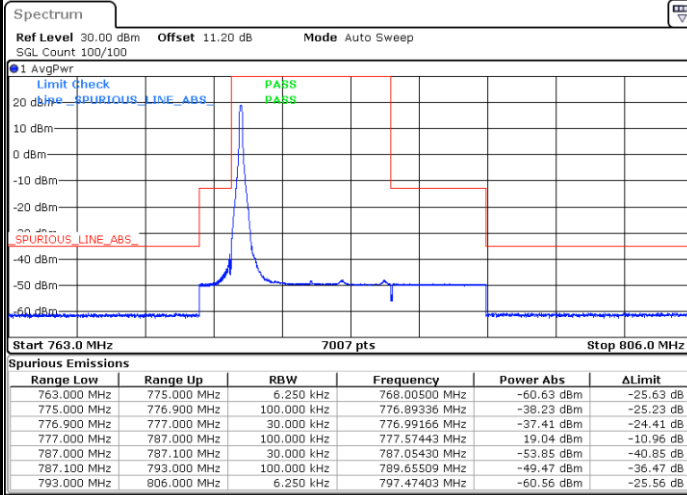
Date: 7 JUN 2020 13:55:08





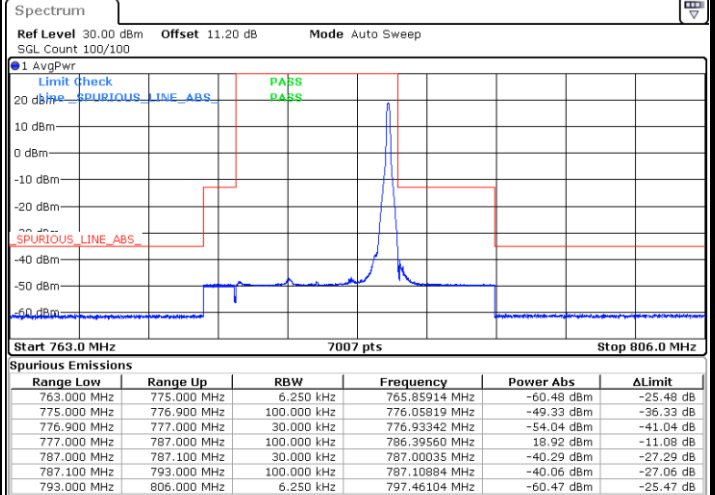
IC LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



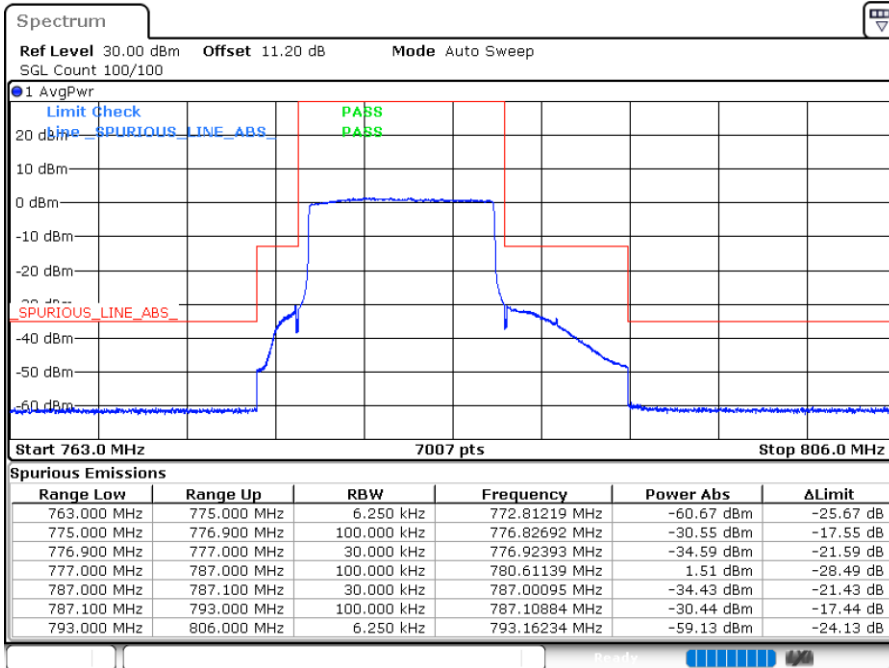
Date: 7.JUN.2020 13:58:26

Highest Band Edge / 1 RB



Date: 7.JUN.2020 14:03:25

Band Edge / Full RB



Date: 7 JUN 2020 13:56:47

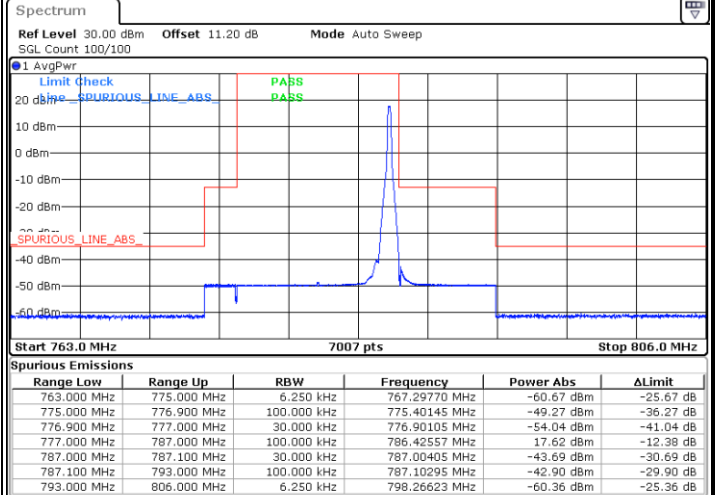
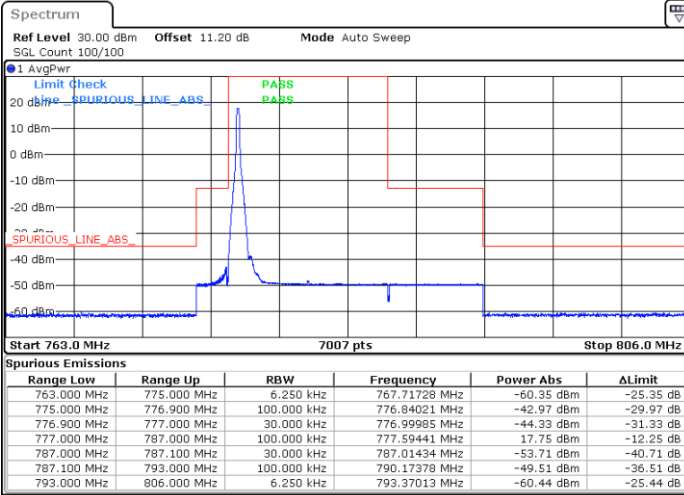




IC LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB

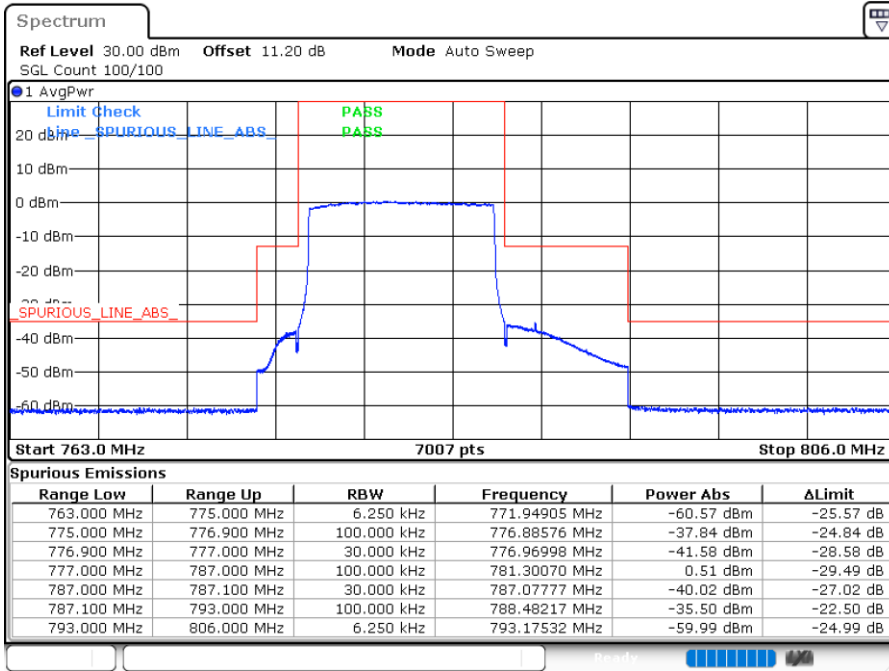
Highest Band Edge / 1 RB



Date: 7 JUN 2020 13:51:49

Date: 7 JUN 2020 13:53:28

Band Edge / Full RB

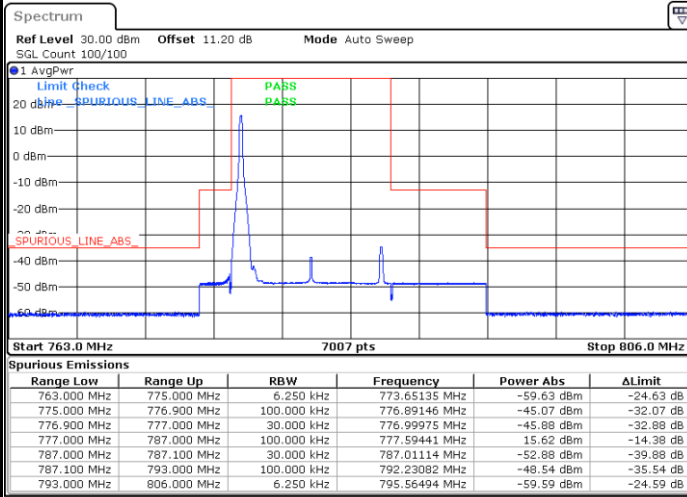


Date: 7 JUN 2020 13:50:08



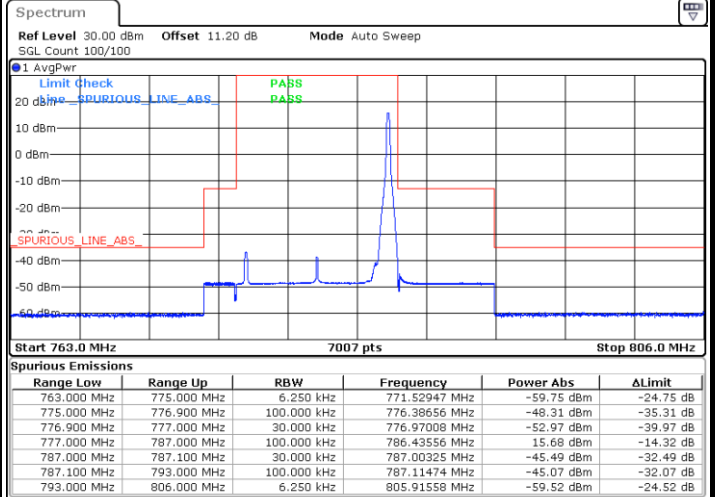
IC LTE Band 13 / 10MHz / 256QAM

Lowest Band Edge / 1 RB



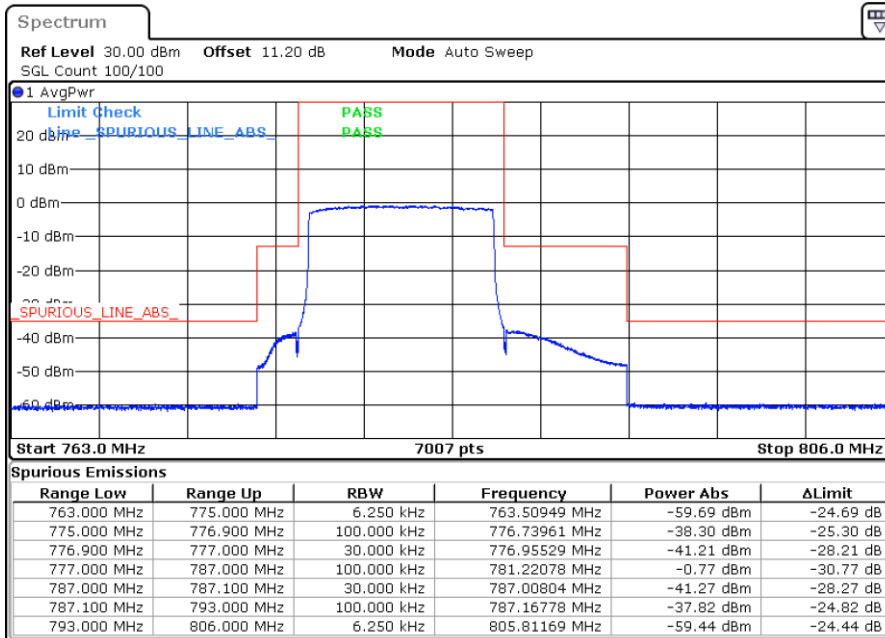
Date: 16.JUL.2020 11:57:30

Highest Band Edge / 1 RB



Date: 16.JUL.2020 12:31:36

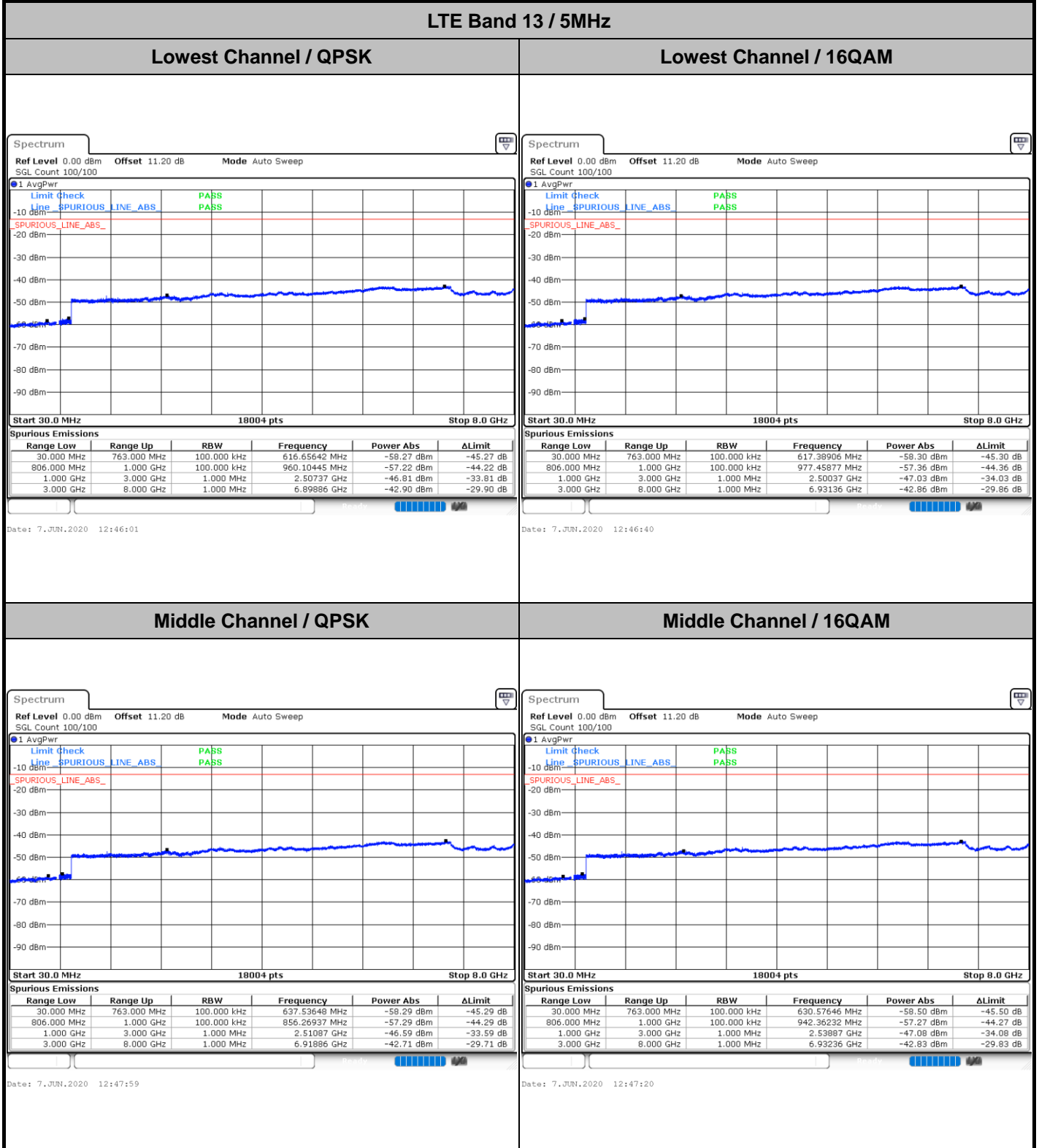
Band Edge / Full RB



Date: 16.JUL.2020 11:55:09



# Conducted Spurious Emission

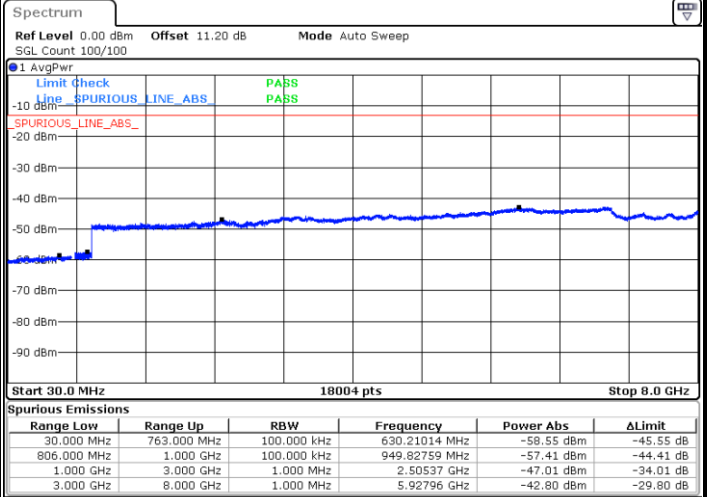
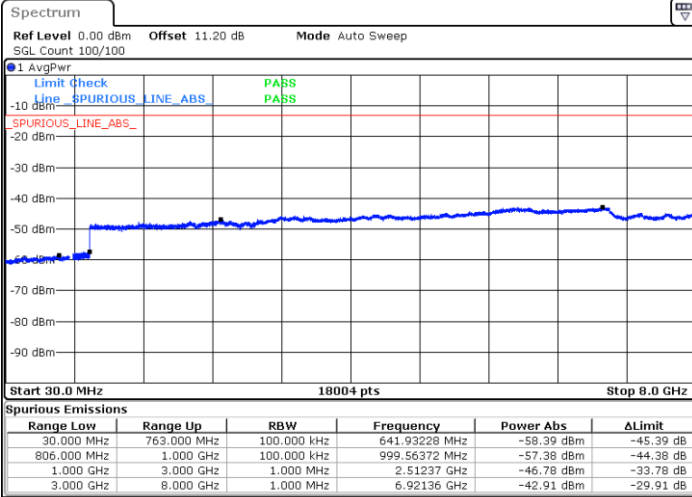




LTE Band 13 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



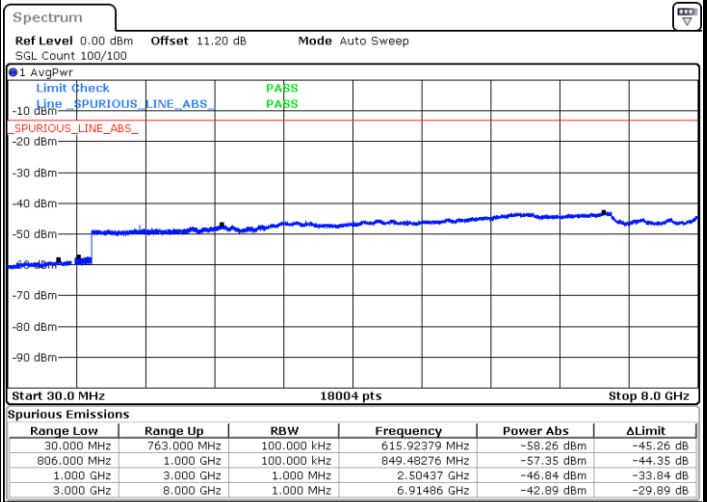
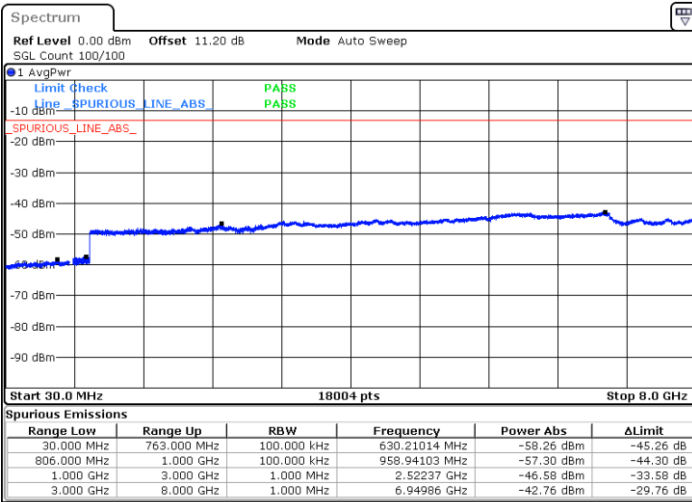
Date: 7 JUN.2020 12:56:51

Date: 7 JUN.2020 12:57:31

LTE Band 13 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 7 JUN.2020 13:19:20

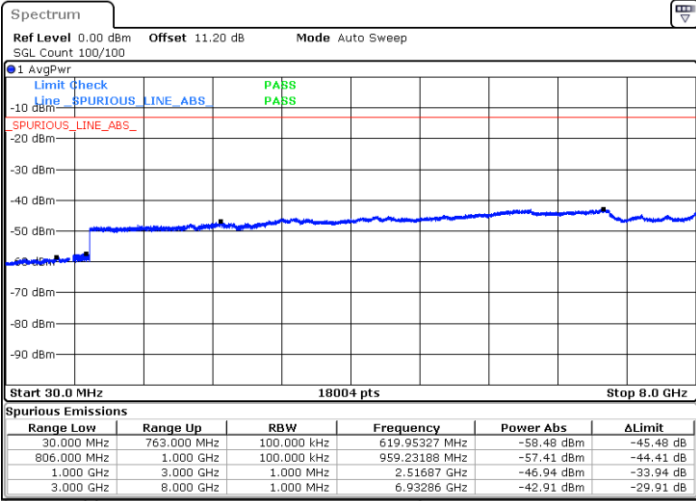
Date: 7 JUN.2020 13:18:41



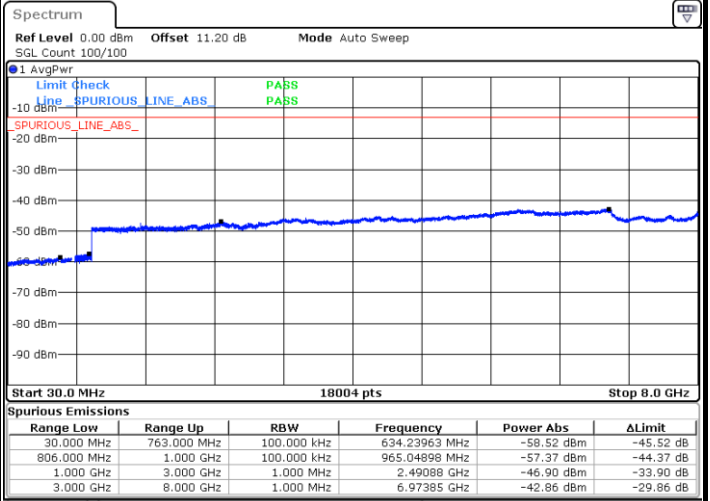
LTE Band 13 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

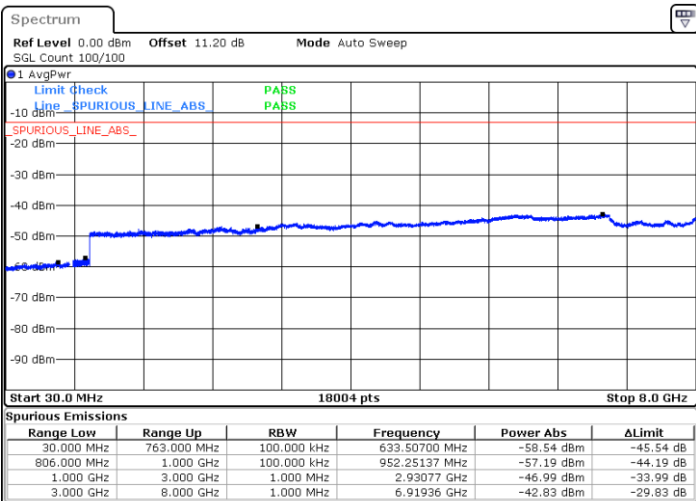


Date: 7 JUN.2020 13:01:54



Date: 7 JUN.2020 13:02:34

Highest Channel / 64QAM



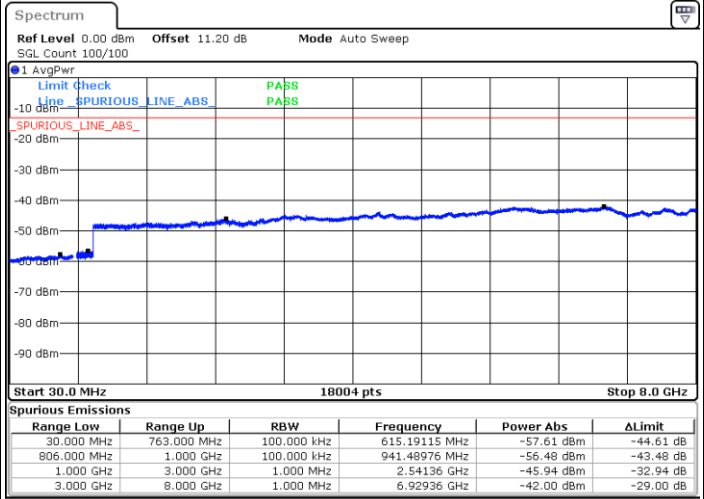
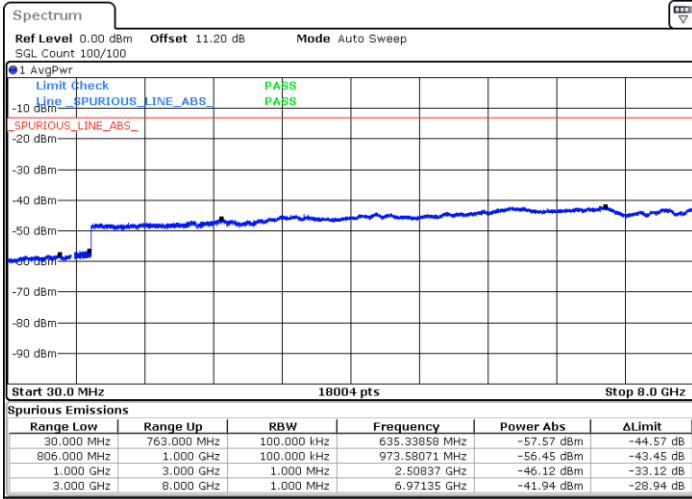
Date: 7 JUN.2020 13:07:19



LTE Band 13 / 5MHz

Lowest Channel / 256QAM

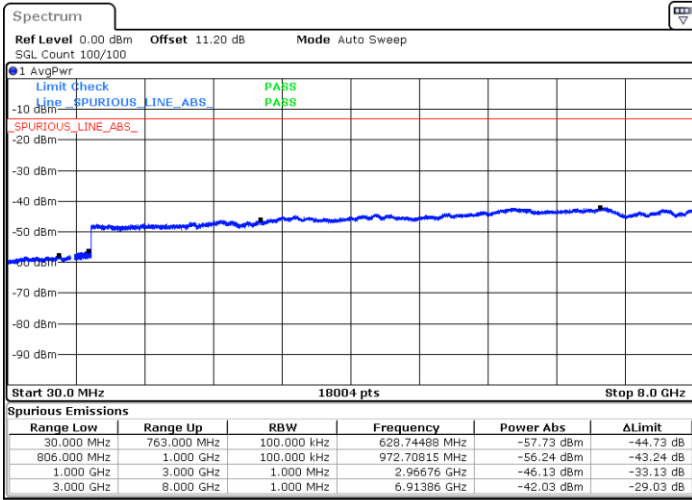
Middle Channel / 256QAM



Date: 16.JUL.2020 11:37:30

Date: 16.JUL.2020 11:41:34

Highest Channel / 256QAM



Date: 16.JUL.2020 11:51:13







**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	0.0022	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0023	
0	Normal Voltage	0.0139	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0009	
-30	Normal Voltage	0.0004	
20	Maximum Voltage	0.0019	
20	Normal Voltage	0.0133	
20	Battery End Point	0.0005	

**Note:**

- 1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.30 V. ; Maximum Voltage =4.25 V.
- 2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 17

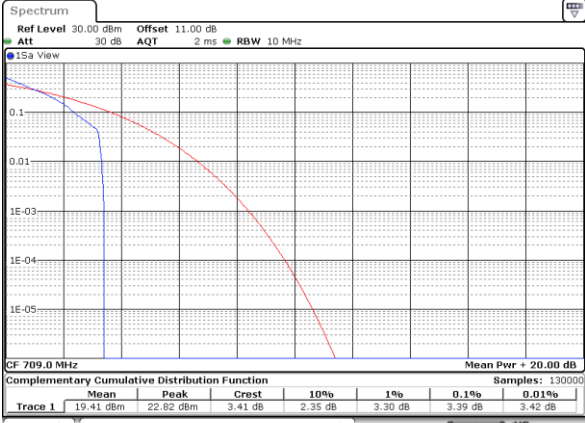
### Peak-to-Average Ratio

Mode	LTE Band 17 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.39	4.90	4.99	5.80	PASS
Middle CH	3.77	4.99	5.01	5.86	
Highest CH	3.65	4.99	5.33	5.62	
Mode	LTE Band 17 / 10MHz				
Mod.	64QAM		256QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	7.22	6.29	6.20	6.32	PASS
Middle CH	6.32	6.29	5.86	6.17	
Highest CH	6.99	6.35	6.38	6.20	



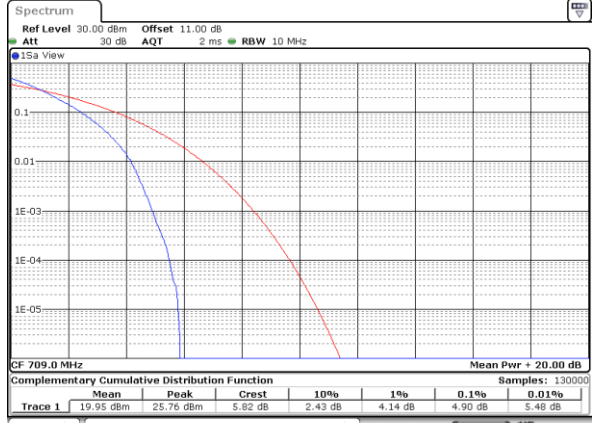
LTE Band 17 / 10MHz / QPSK

Lowest Channel / 1RB



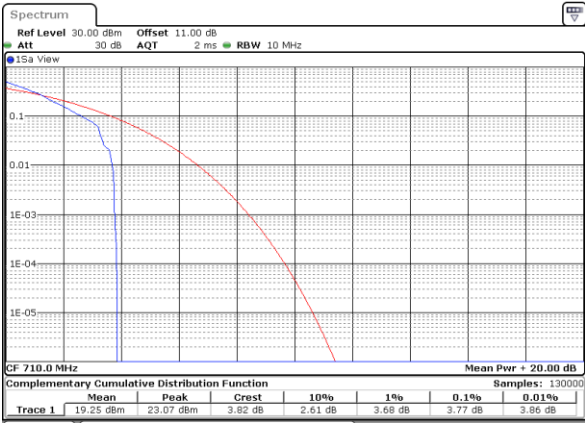
Date: 7 JUN 2020 15:52:57

Lowest Channel / Full RB



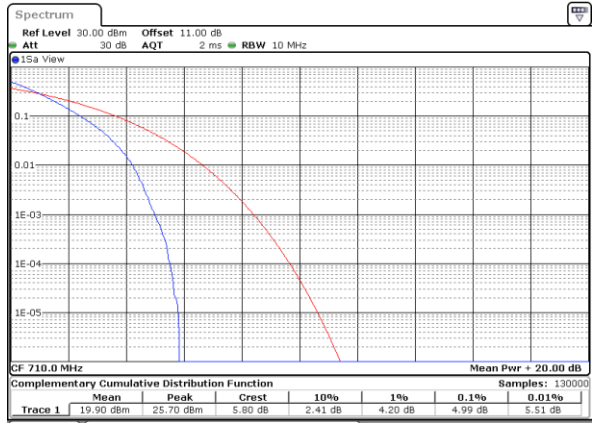
Date: 7 JUN 2020 15:53:08

Middle Channel / 1RB



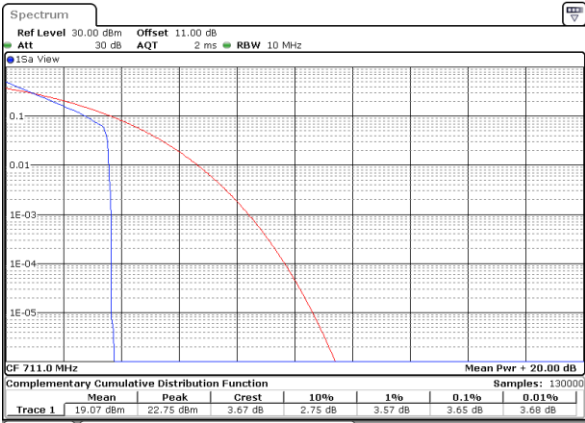
Date: 7 JUN 2020 15:53:19

Middle Channel / Full RB



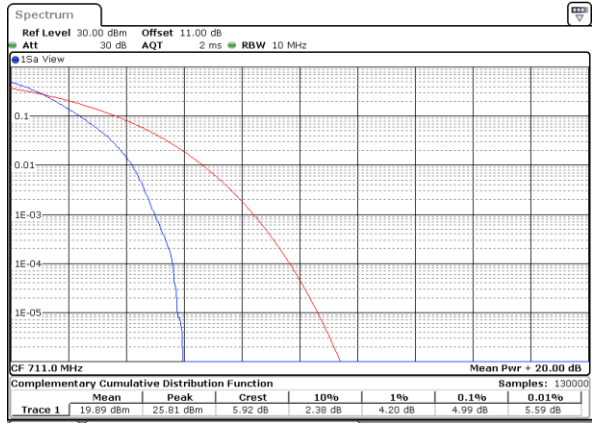
Date: 7 JUN 2020 15:53:29

Highest Channel / 1RB



Date: 7 JUN 2020 15:53:39

Highest Channel / Full RB

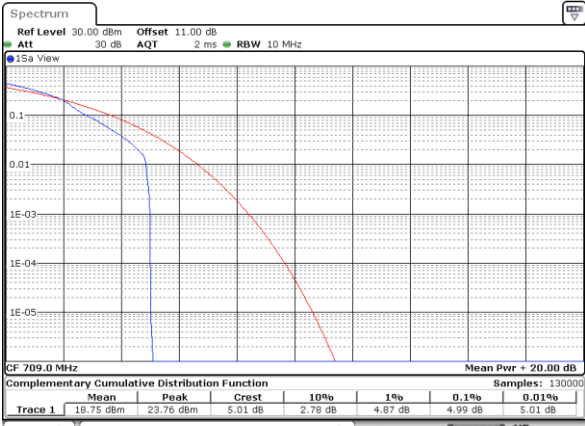


Date: 7 JUN 2020 15:53:49



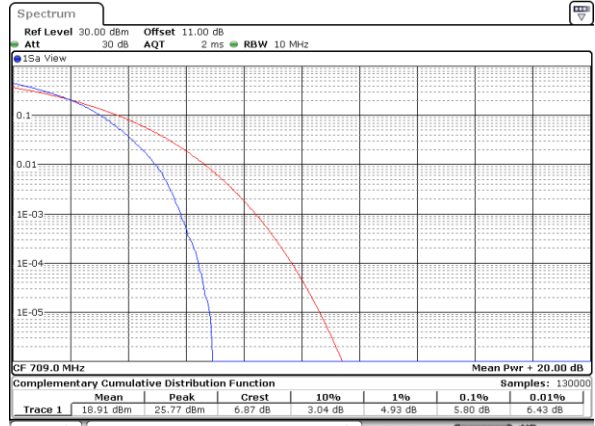
LTE Band 17 / 10MHz / 16QAM

Lowest Channel / 1RB



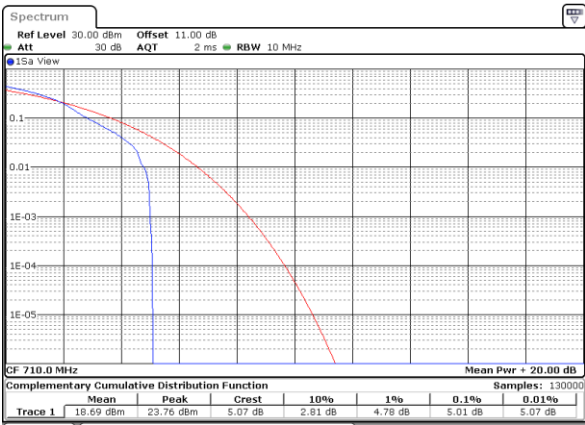
Date: 7 JUN 2020 15:51:50

Lowest Channel / Full RB



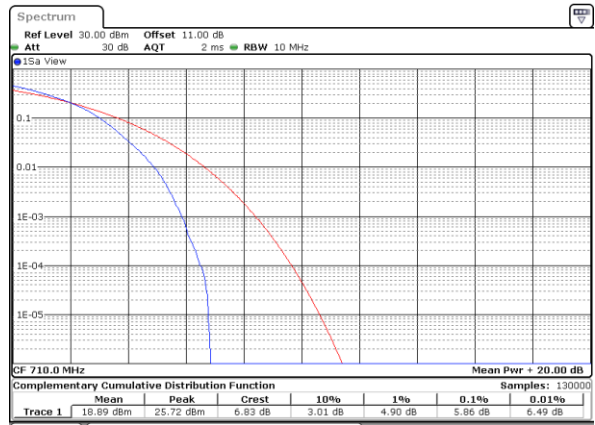
Date: 7 JUN 2020 15:52:01

Middle Channel / 1RB



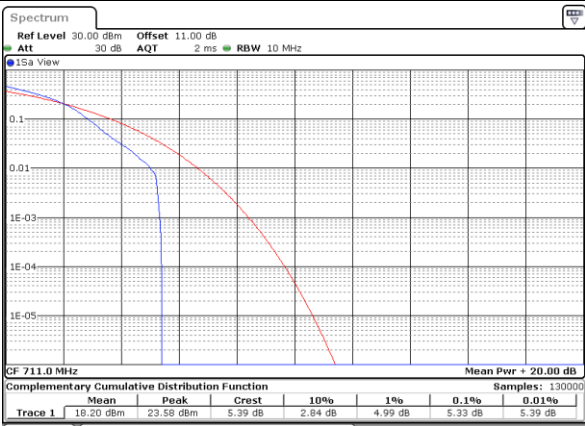
Date: 7 JUN 2020 15:52:12

Middle Channel / Full RB



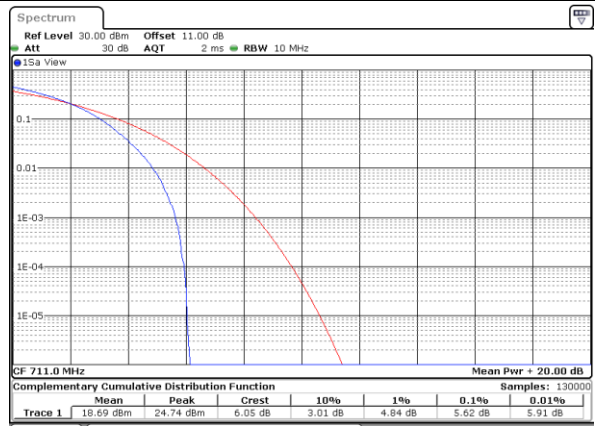
Date: 7 JUN 2020 15:52:23

Highest Channel / 1RB



Date: 7 JUN 2020 15:52:34

Highest Channel / Full RB



Date: 7 JUN 2020 15:52:46



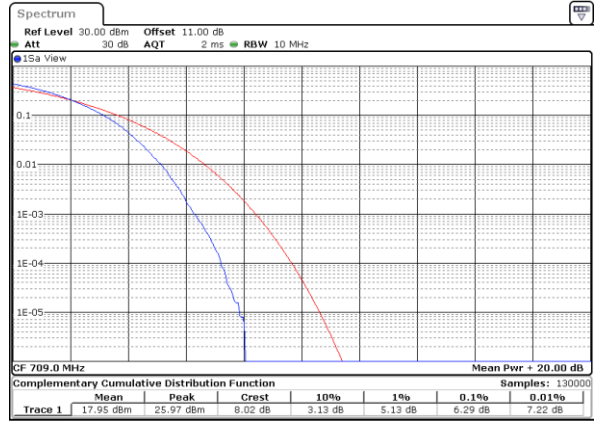
LTE Band 17 / 10MHz / 64QAM

Lowest Channel / 1RB



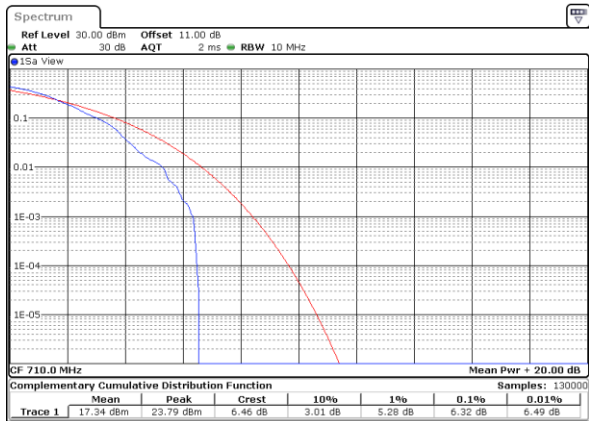
Date: 7 JUN 2020 15:54:02

Lowest Channel / Full RB



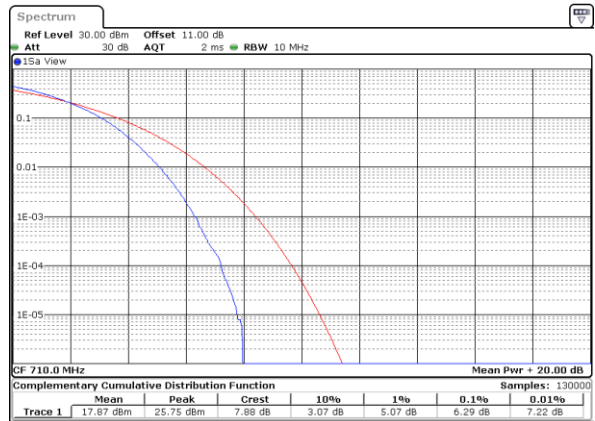
Date: 7 JUN 2020 15:54:12

Middle Channel / 1RB



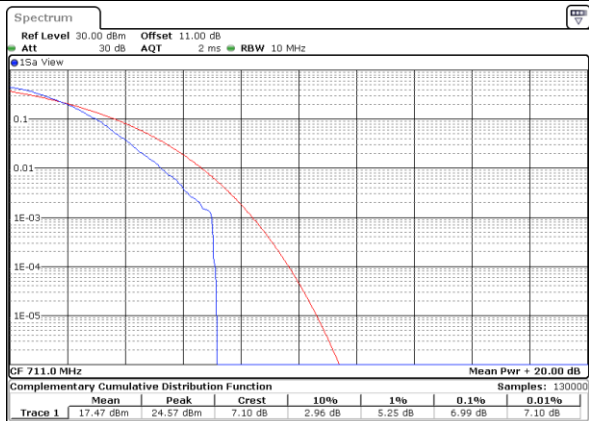
Date: 7 JUN 2020 15:54:22

Middle Channel / Full RB



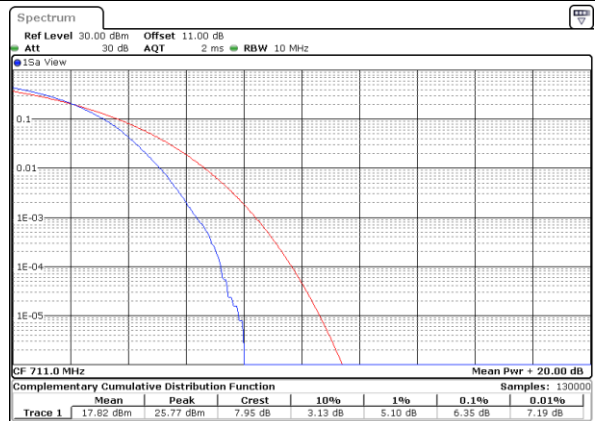
Date: 7 JUN 2020 15:54:32

Highest Channel / 1RB



Date: 7 JUN 2020 15:54:42

Highest Channel / Full RB

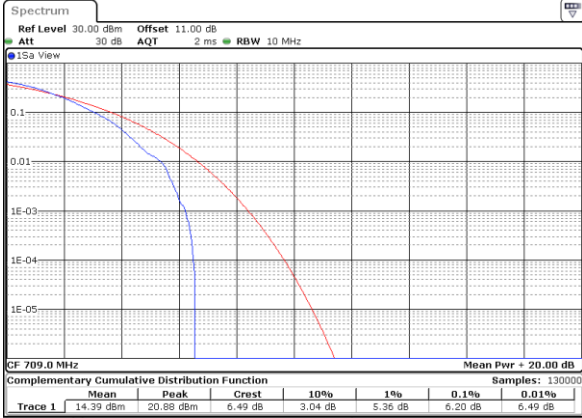


Date: 7 JUN 2020 15:54:53



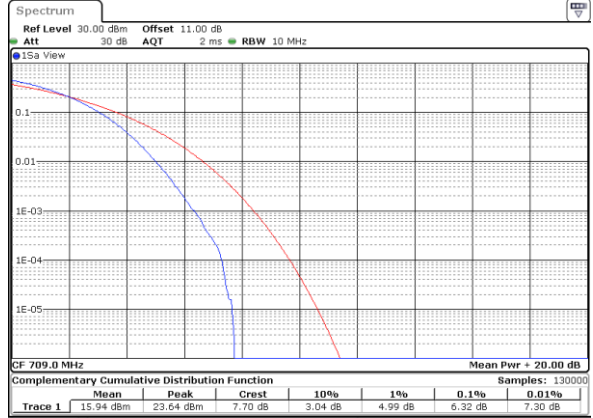
LTE Band 17 / 10MHz / 256QAM

Lowest Channel / 1RB



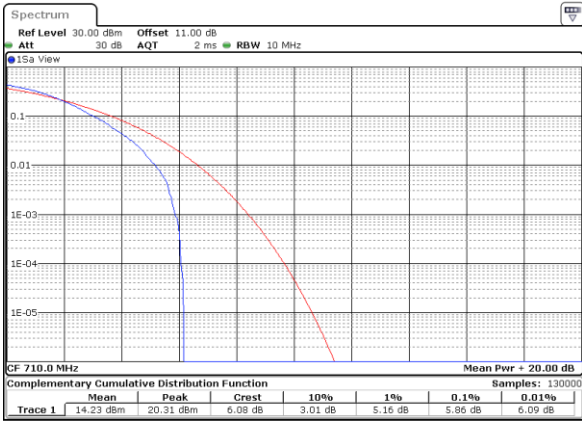
Date: 24.JUL.2020 17:03:29

Lowest Channel / Full RB



Date: 24.JUL.2020 17:04:00

Middle Channel / 1RB



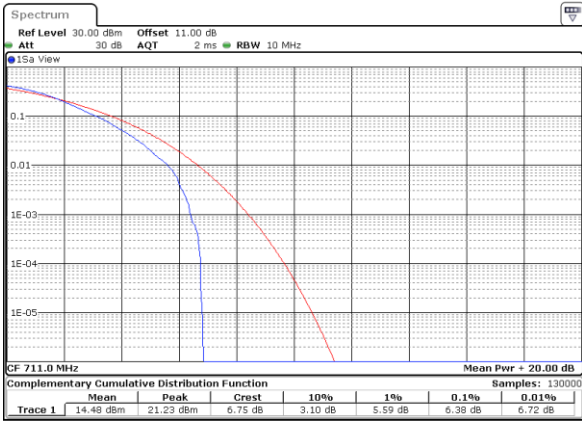
Date: 24.JUL.2020 17:05:38

Middle Channel / Full RB



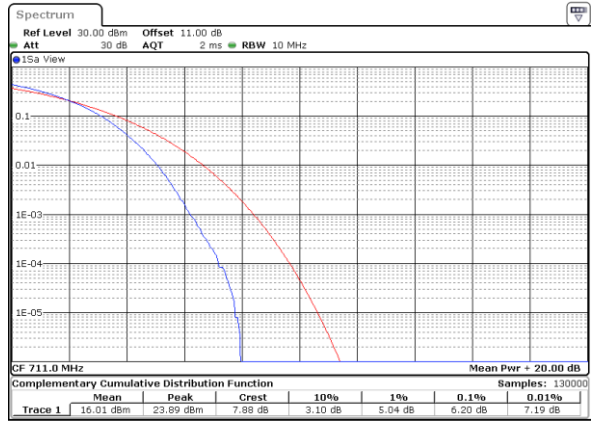
Date: 24.JUL.2020 17:05:17

Highest Channel / 1RB



Date: 24.JUL.2020 17:06:45

Highest Channel / Full RB



Date: 24.JUL.2020 17:09:07



**26dB Bandwidth**

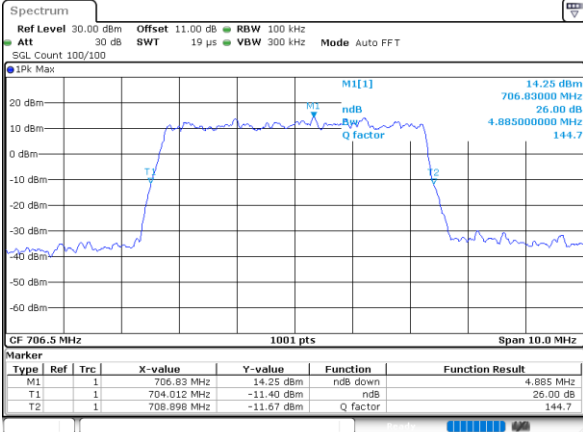
Mode	LTE Band 17 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.89	4.86	9.79	9.79	-	-	-	-
Middle CH	-	-	-	-	4.92	4.84	9.73	9.79	-	-	-	-
Highest CH	-	-	-	-	4.88	4.94	9.67	9.93	-	-	-	-
Mode	LTE Band 17 : 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	-	-	-	-	4.88	4.90	9.81	9.85	-	-	-	-
Middle CH	-	-	-	-	4.92	4.88	9.73	9.83	-	-	-	-
Highest CH	-	-	-	-	4.93	4.94	9.73	9.75	-	-	-	-





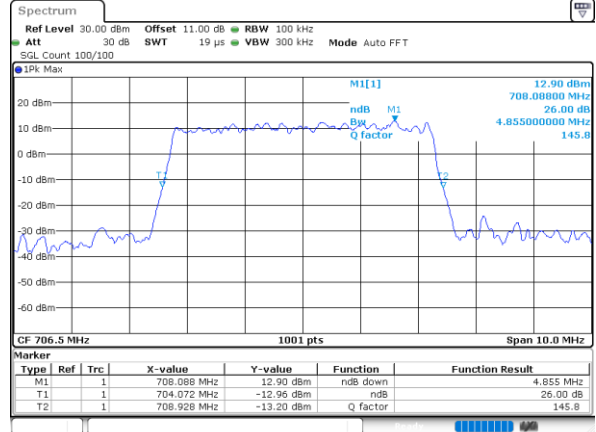
LTE Band 17

Lowest Channel / 5MHz / QPSK



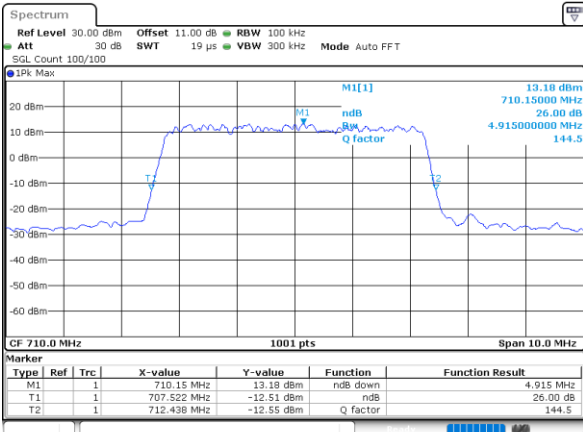
Date: 7, JUN, 2020 15:16:28

Lowest Channel / 5MHz / 16QAM



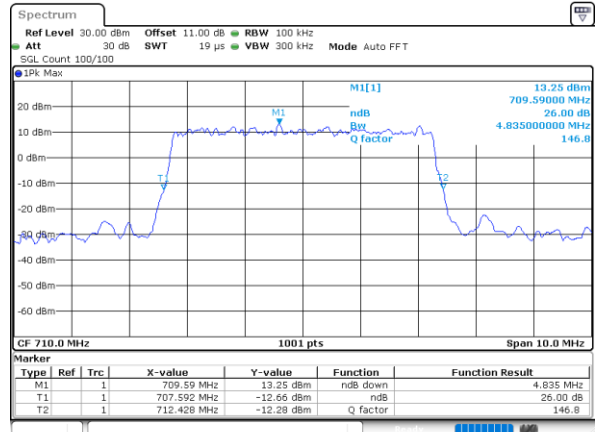
Date: 7, JUN, 2020 15:16:39

Middle Channel / 5MHz / QPSK



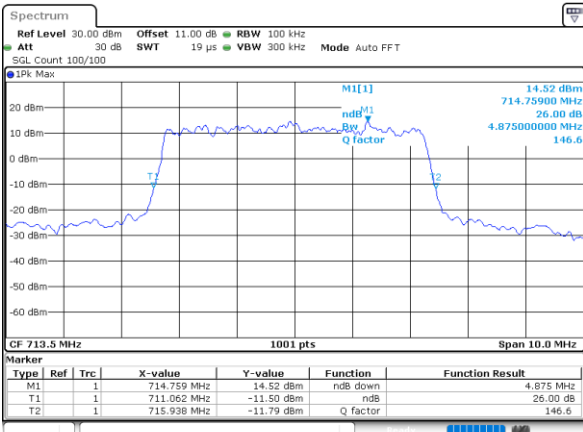
Date: 7, JUN, 2020 15:21:30

Middle Channel / 5MHz / 16QAM



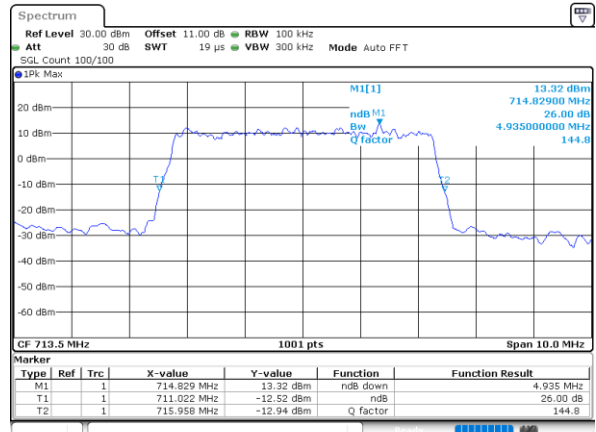
Date: 7, JUN, 2020 15:21:41

Highest Channel / 5MHz / QPSK



Date: 7, JUN, 2020 15:23:36

Highest Channel / 5MHz / 16QAM

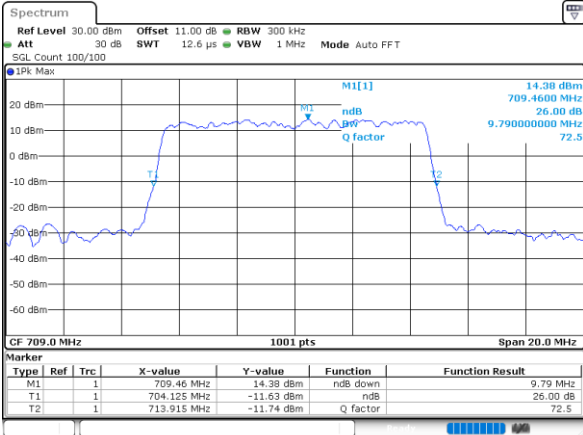


Date: 7, JUN, 2020 15:23:47

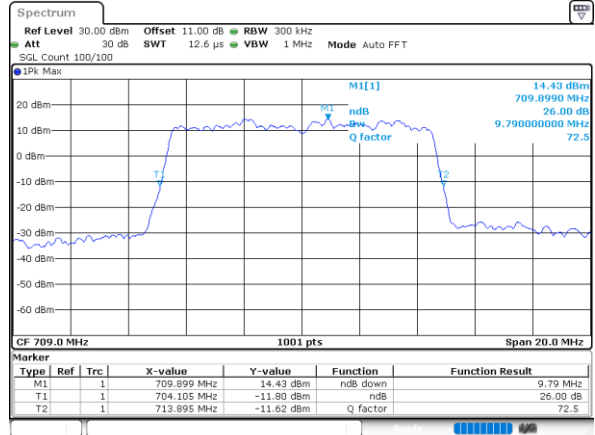


LTE Band 17

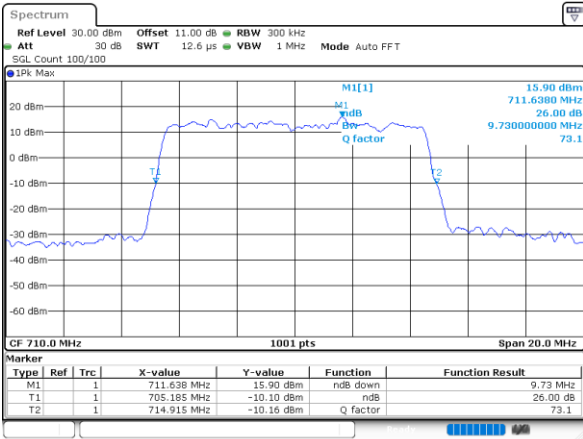
Lowest Channel / 10MHz / QPSK



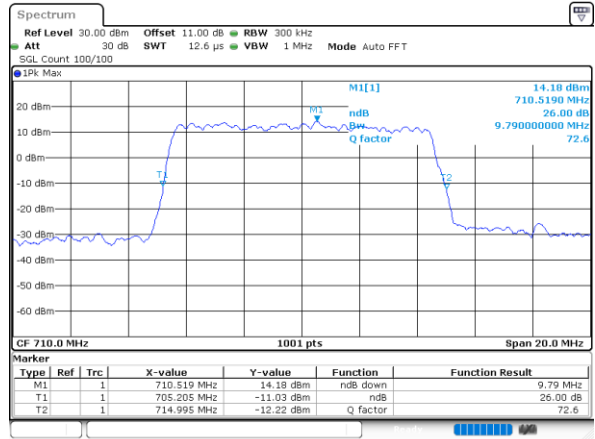
Lowest Channel / 10MHz / 16QAM



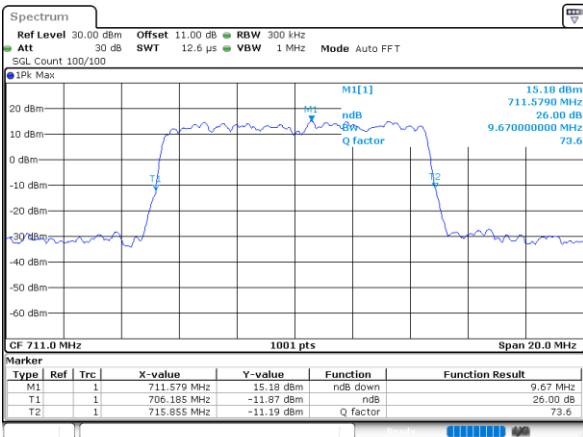
Middle Channel / 10MHz / QPSK



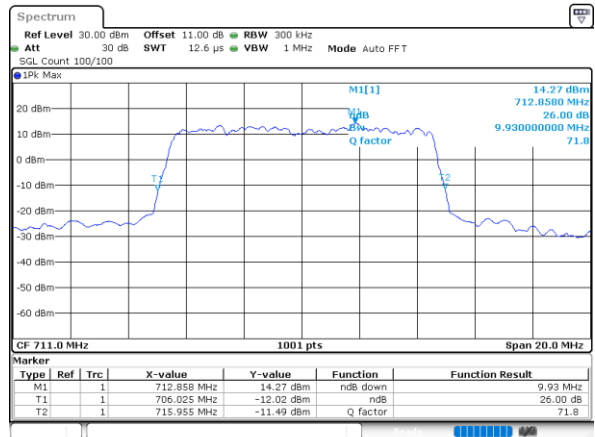
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



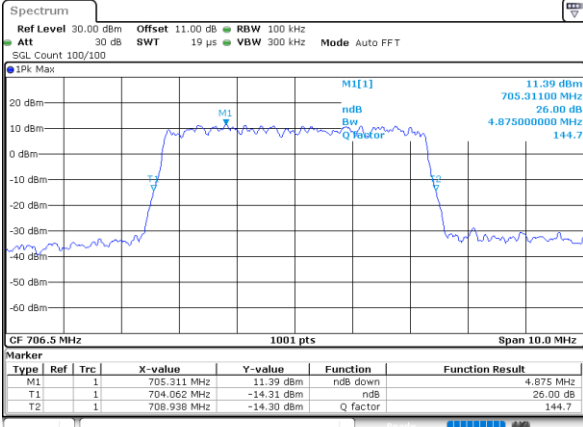
Highest Channel / 10MHz / 16QAM





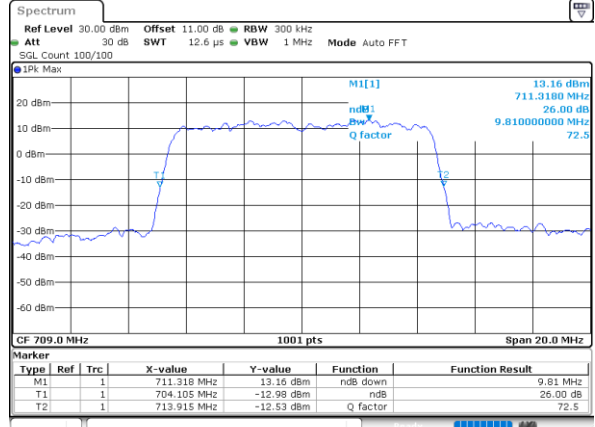
LTE Band 17

Lowest Channel / 5MHz / 64QAM



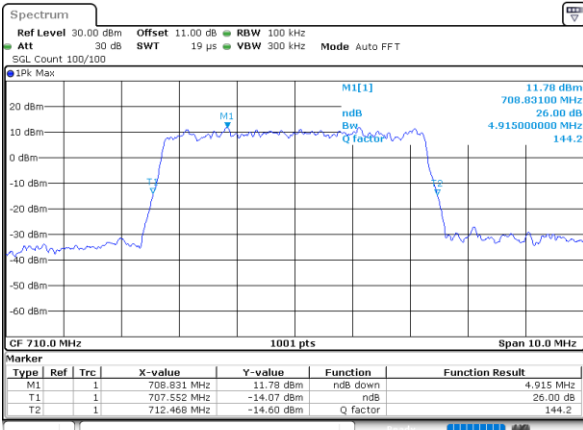
Date: 7, JUN, 2020 15:40:08

Lowest Channel / 10MHz / 64QAM



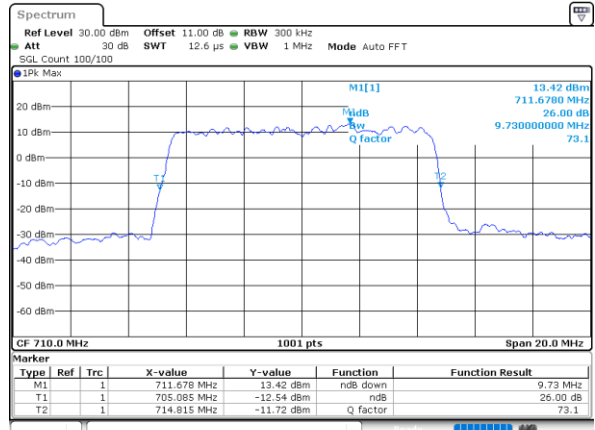
Date: 7, JUN, 2020 15:46:05

Middle Channel / 5MHz / 64QAM



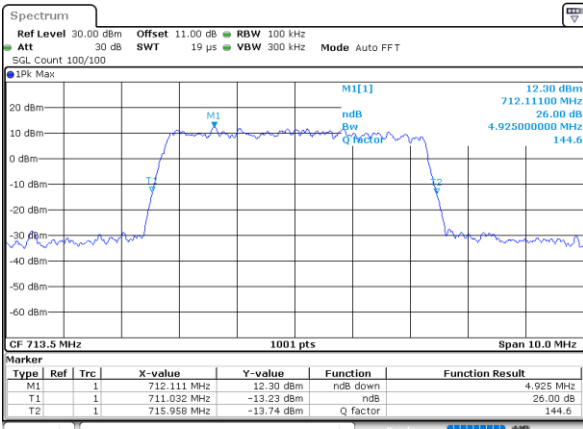
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Middle Channel / 10MHz / 64QAM



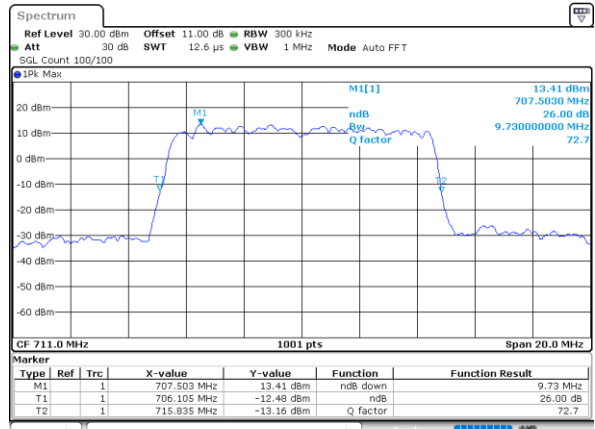
Date: 7, JUN, 2020 15:48:35

Highest Channel / 5MHz / 64QAM



Date: 7, JUN, 2020 15:43:41

Highest Channel / 10MHz / 64QAM

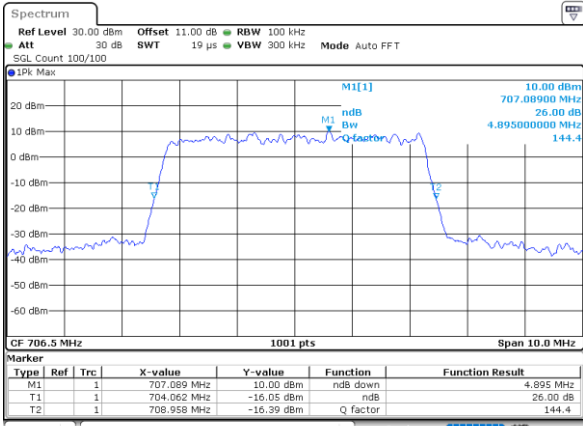


Date: 7, JUN, 2020 15:49:38



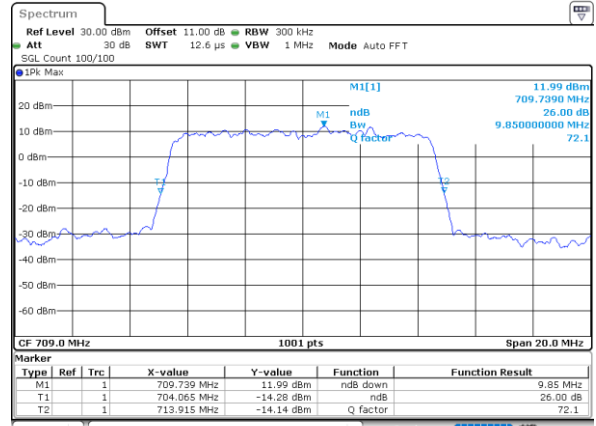
LTE Band 17

Lowest Channel / 5MHz / 256QAM



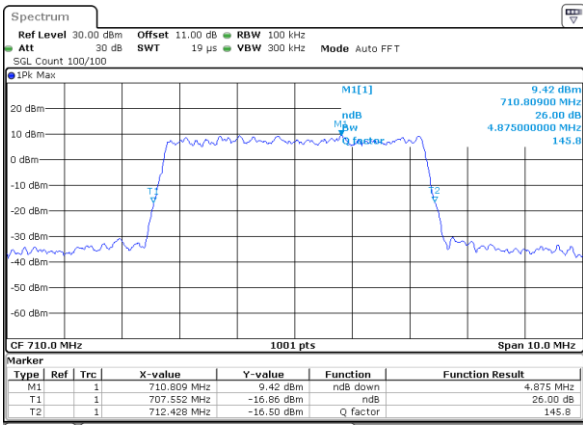
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Lowest Channel / 10MHz / 256QAM



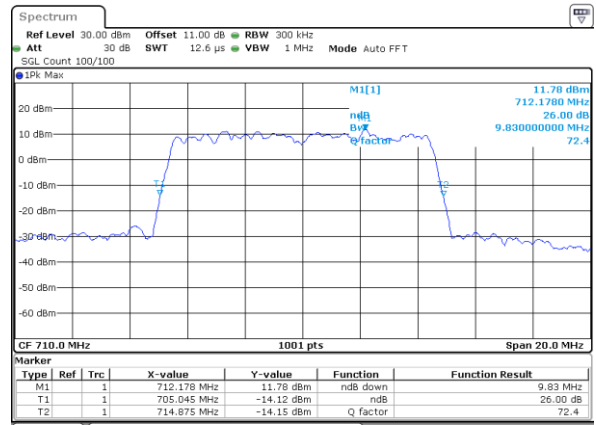
Date: 24.JUL.2020 17:03:53

Middle Channel / 5MHz / 256QAM



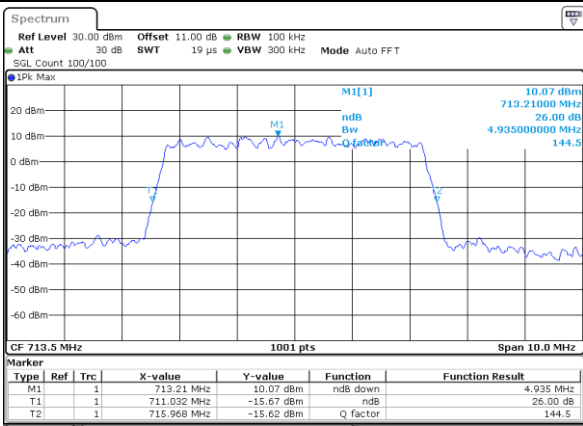
Date: 24.JUL.2020 16:46:03

Middle Channel / 10MHz / 256QAM



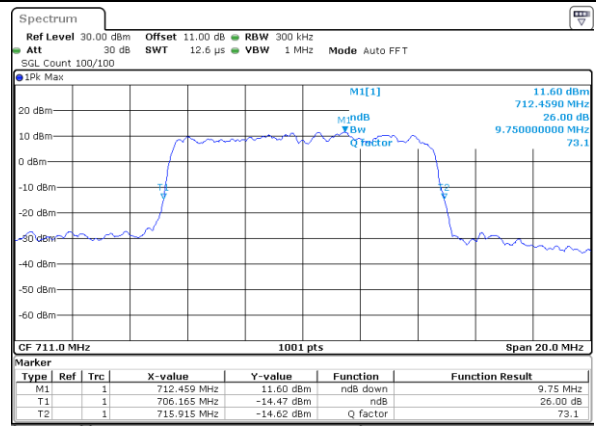
Date: 24.JUL.2020 17:00:47

Highest Channel / 5MHz / 256QAM



Date: 24.JUL.2020 16:57:50

Highest Channel / 10MHz / 256QAM



Date: 24.JUL.2020 17:08:51



**Occupied Bandwidth**

LTE Band 17 : 99%OBW(MHz)												
Mode	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.48	4.49	9.07	9.01	-	-	-	-
Middle CH	-	-	-	-	4.48	4.49	8.99	9.01	-	-	-	-
Highest CH	-	-	-	-	4.49	4.50	8.97	9.01	-	-	-	-
LTE Band 17 : 99%OBW(MHz)												
Mode	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Lowest CH	-	-	-	-	4.49	4.48	8.99	9.03	-	-	-	-
Middle CH	-	-	-	-	4.48	4.48	9.03	9.07	-	-	-	-
Highest CH	-	-	-	-	4.49	4.46	9.05	9.03	-	-	-	-