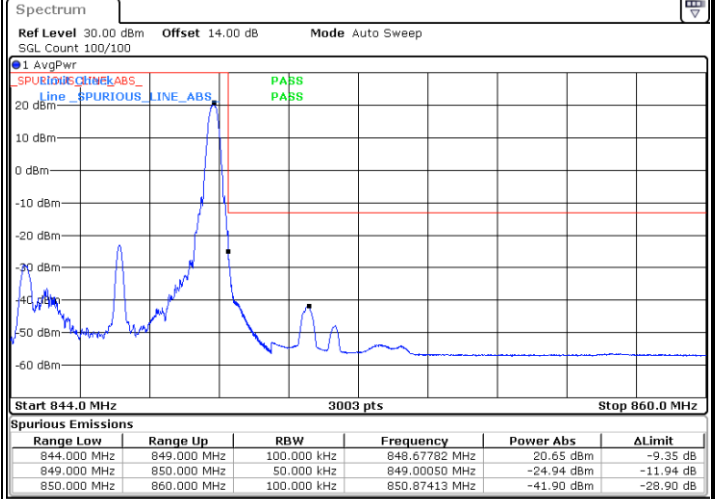
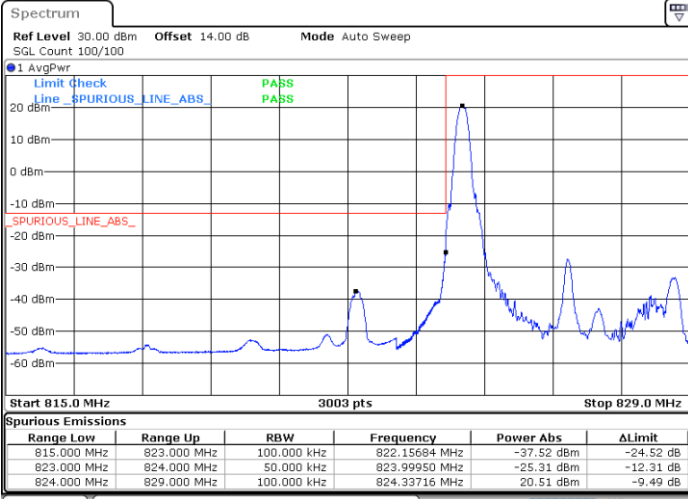




LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

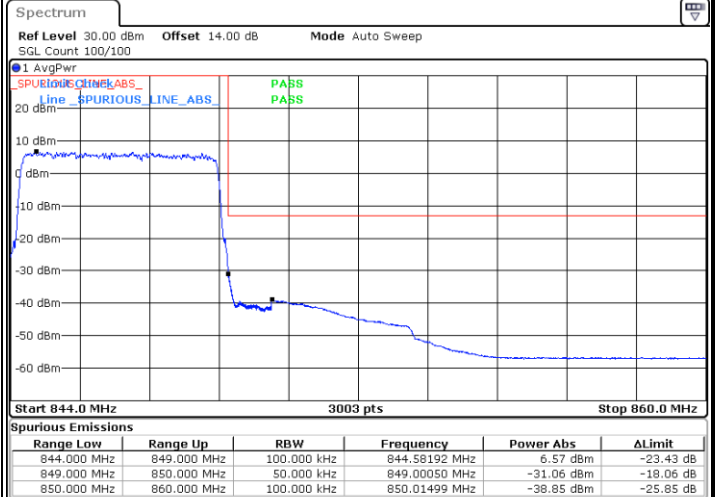
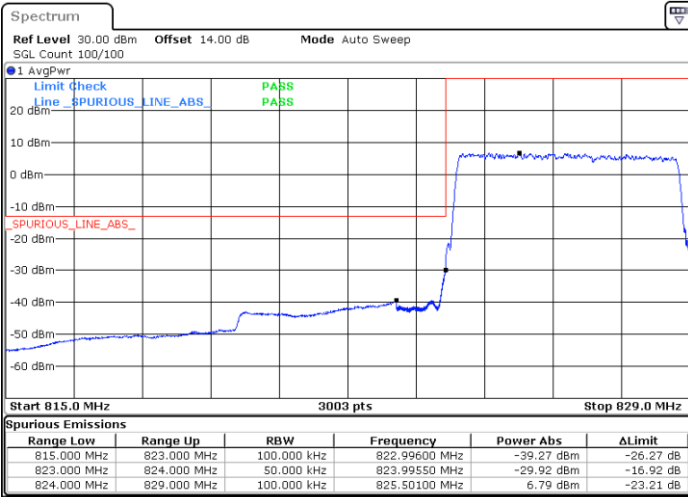


Date: 9.SEP.2020 20:22:28

Date: 9.SEP.2020 20:37:22

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



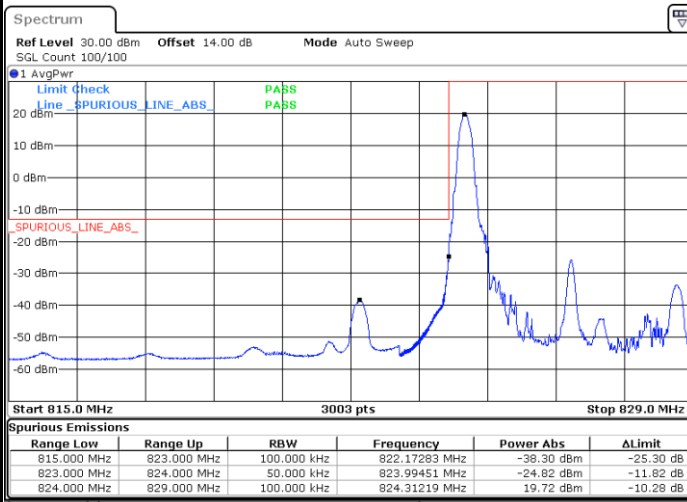
Date: 9.SEP.2020 20:23:40

Date: 9.SEP.2020 20:30:19



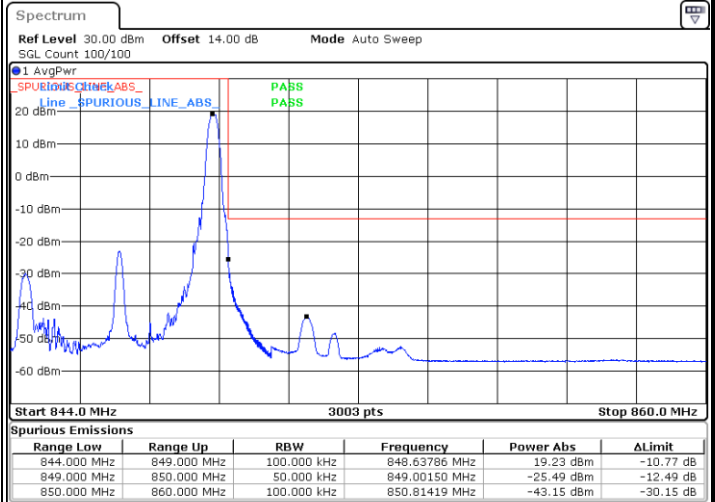
LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / 1RB



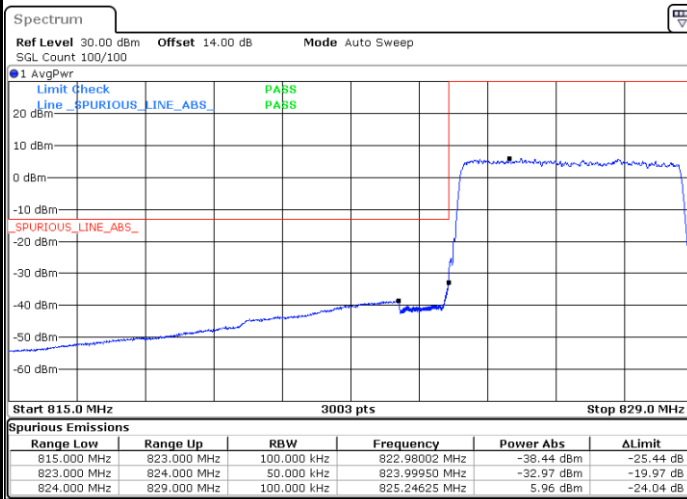
Date: 9.SEP.2020 20:21:09

Highest Band Edge / 1 RB



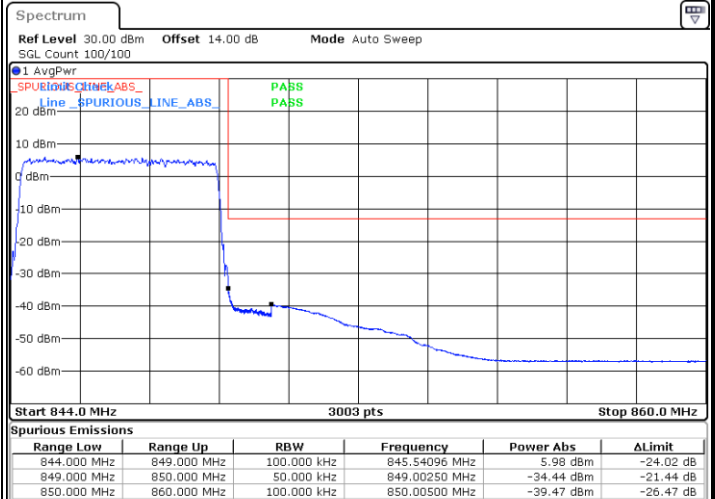
Date: 9.SEP.2020 20:36:33

Lowest Band Edge / Full RB



Date: 9.SEP.2020 20:24:49

Highest Band Edge / Full RB

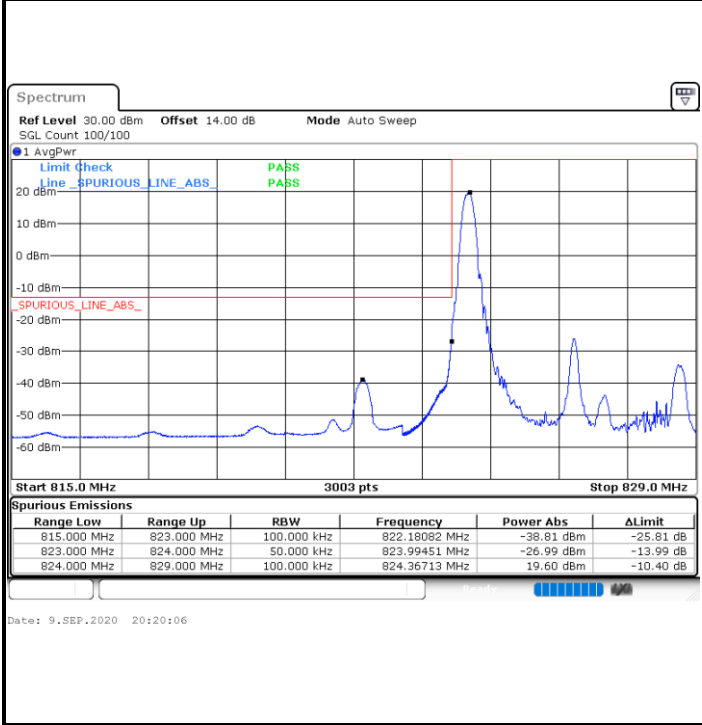


Date: 9.SEP.2020 20:29:05

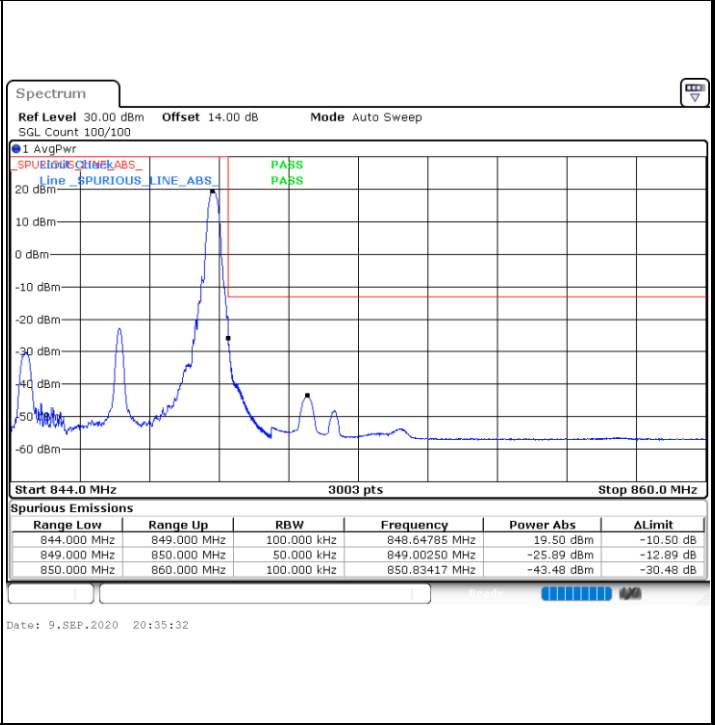


LTE Band 5 / 5MHz / 64QAM

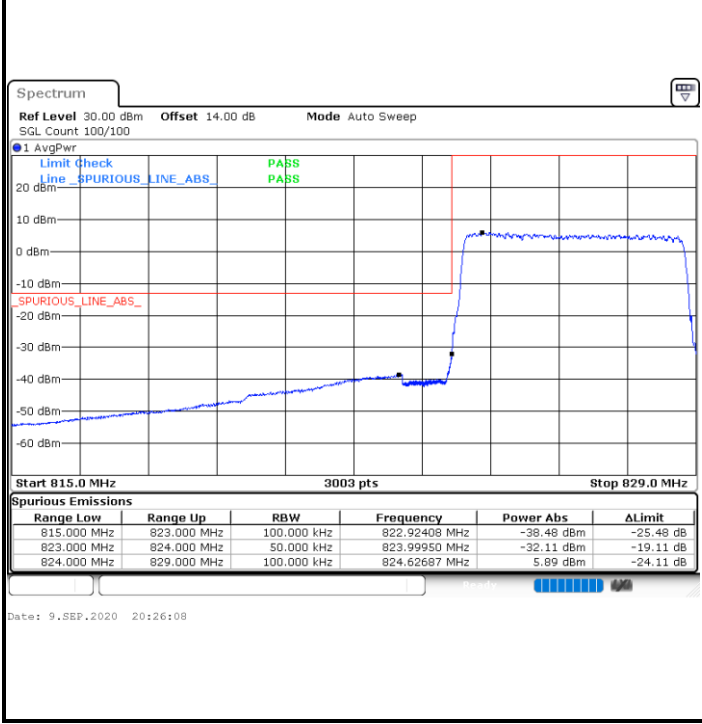
Lowest Band Edge / 1RB



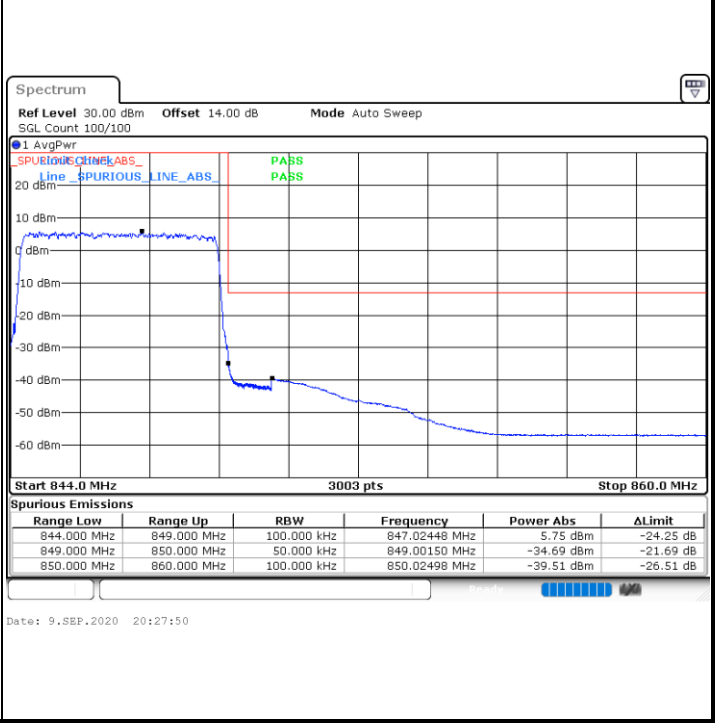
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

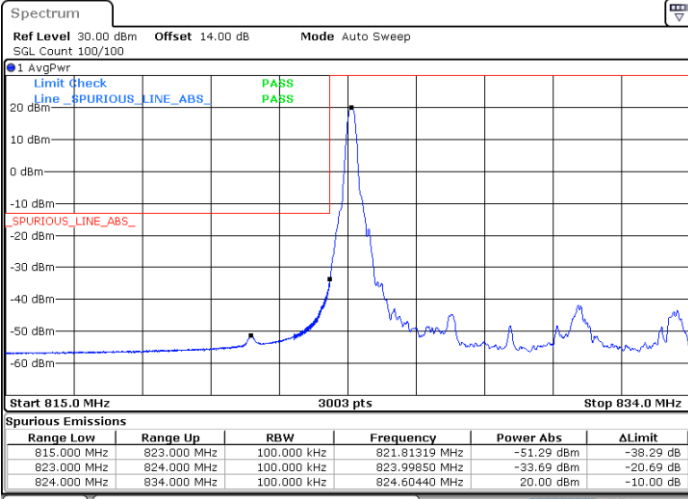




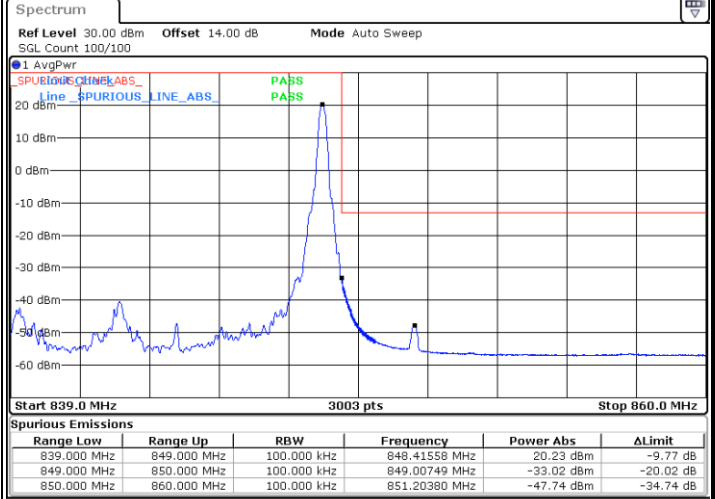
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



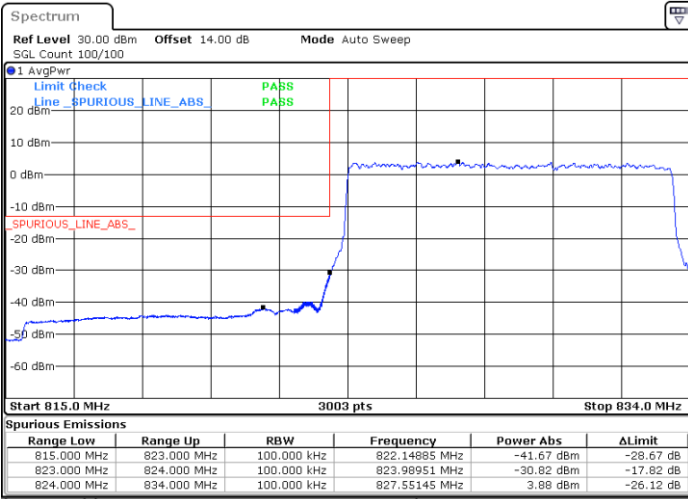
Date: 9.SEP.2020 19:52:18



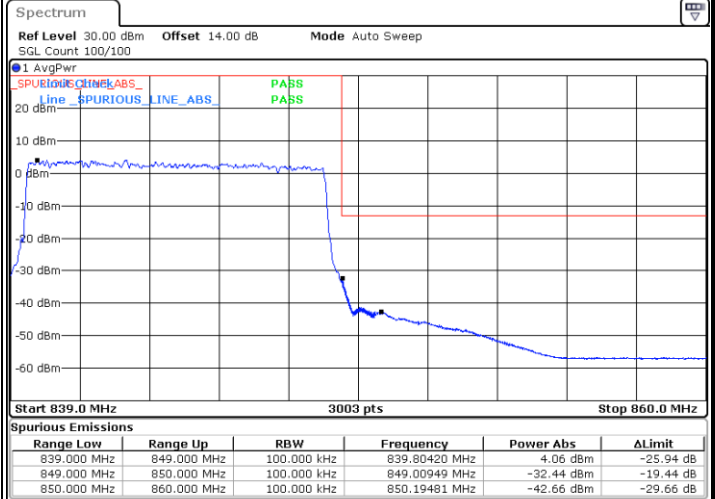
Date: 9.SEP.2020 20:06:45

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 9.SEP.2020 19:57:30

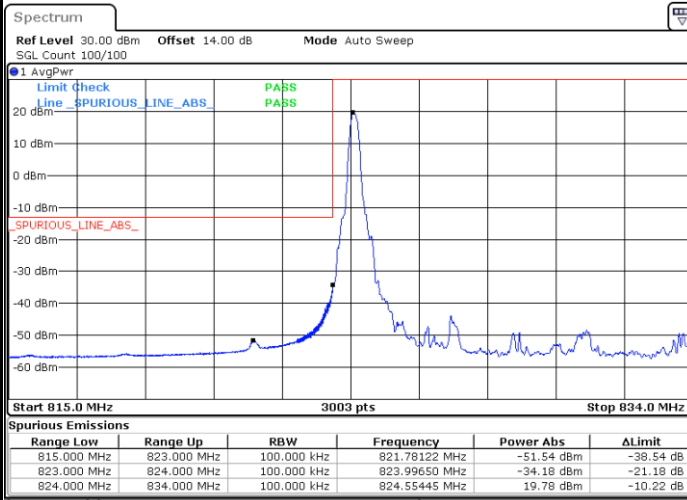


Date: 9.SEP.2020 20:02:06



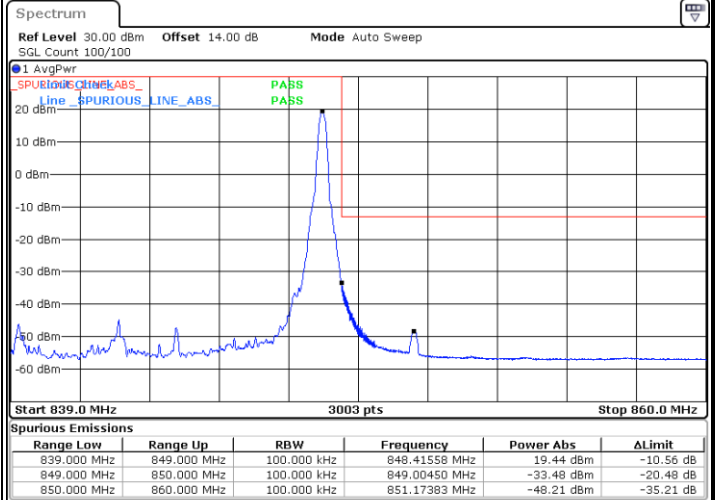
LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



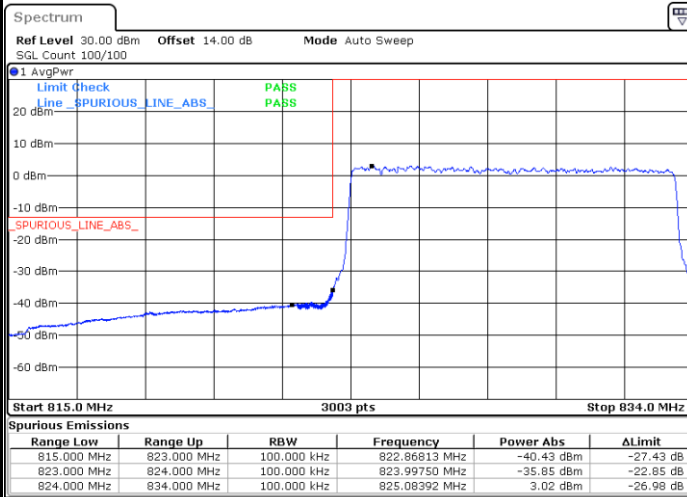
Date: 9.SEP.2020 19:54:14

Highest Band Edge / 1 RB



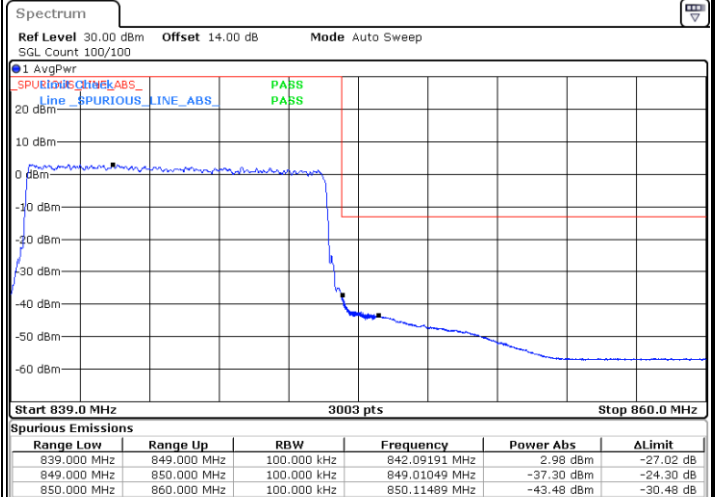
Date: 9.SEP.2020 20:05:54

Lowest Band Edge / Full RB



Date: 9.SEP.2020 19:58:24

Highest Band Edge / Full RB

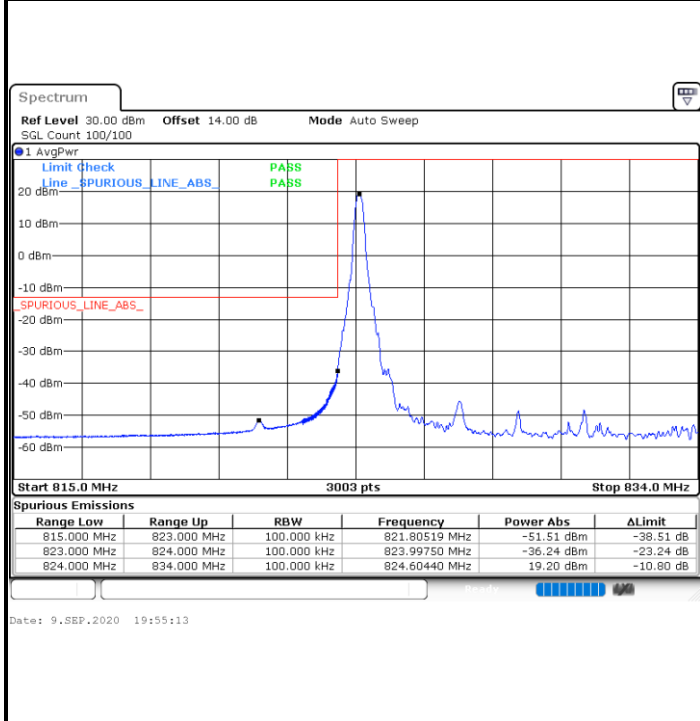


Date: 9.SEP.2020 20:00:53

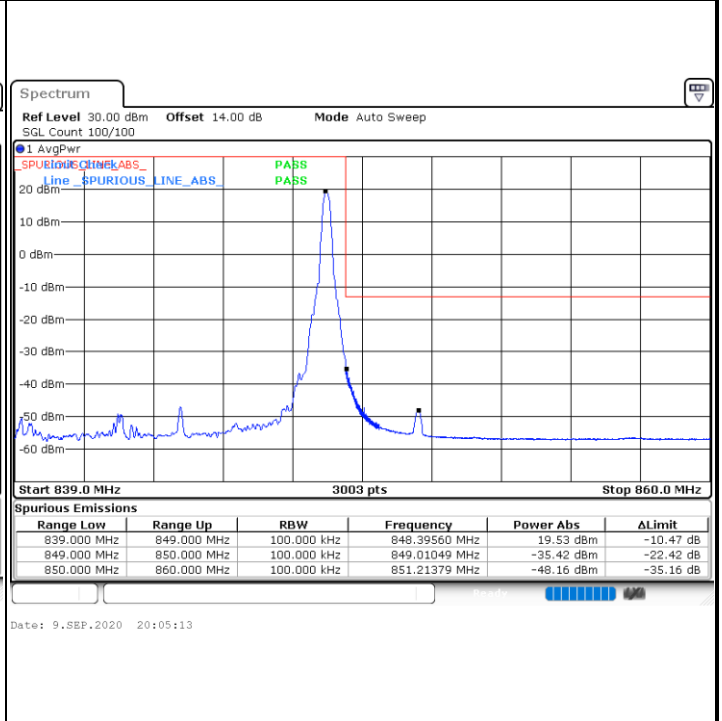


**LTE Band 5 / 10MHz / 64QAM**

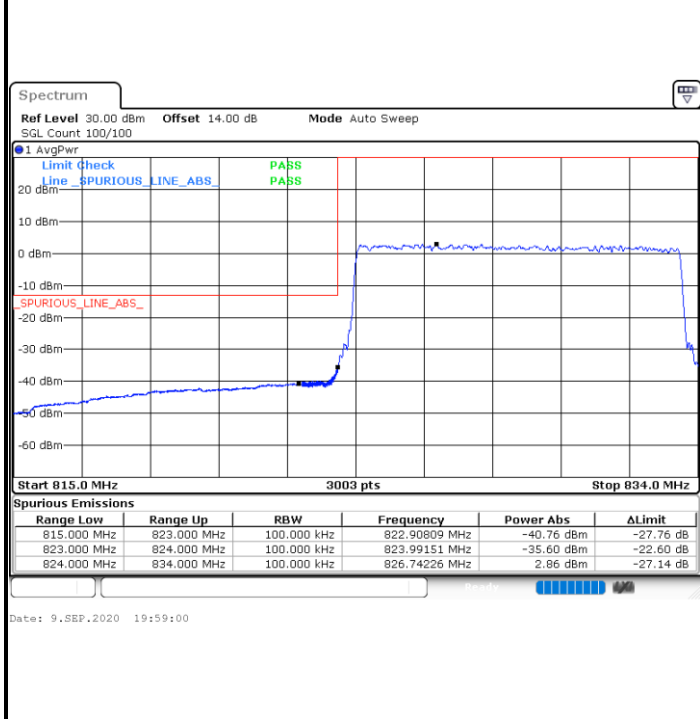
**Lowest Band Edge / 1 RB**



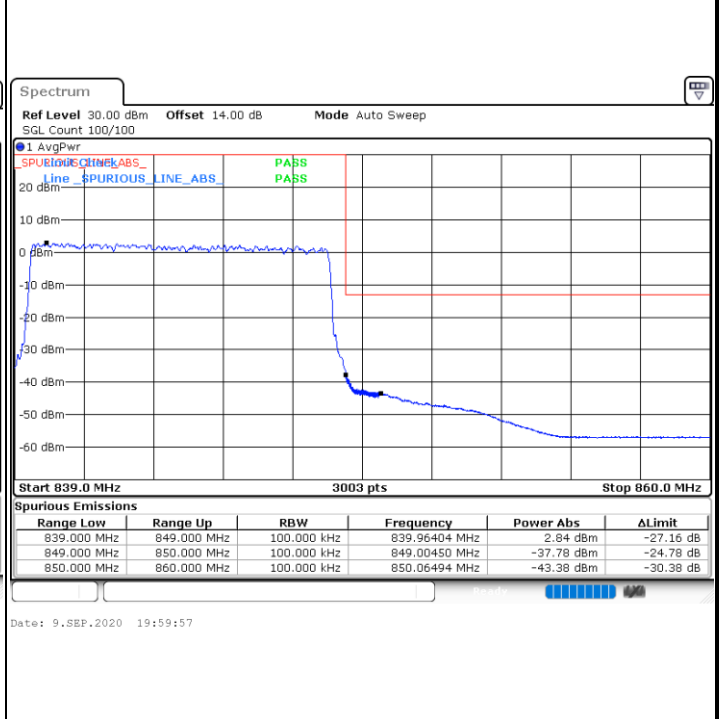
**Highest Band Edge / 1 RB**



**Lowest Band Edge / Full RB**

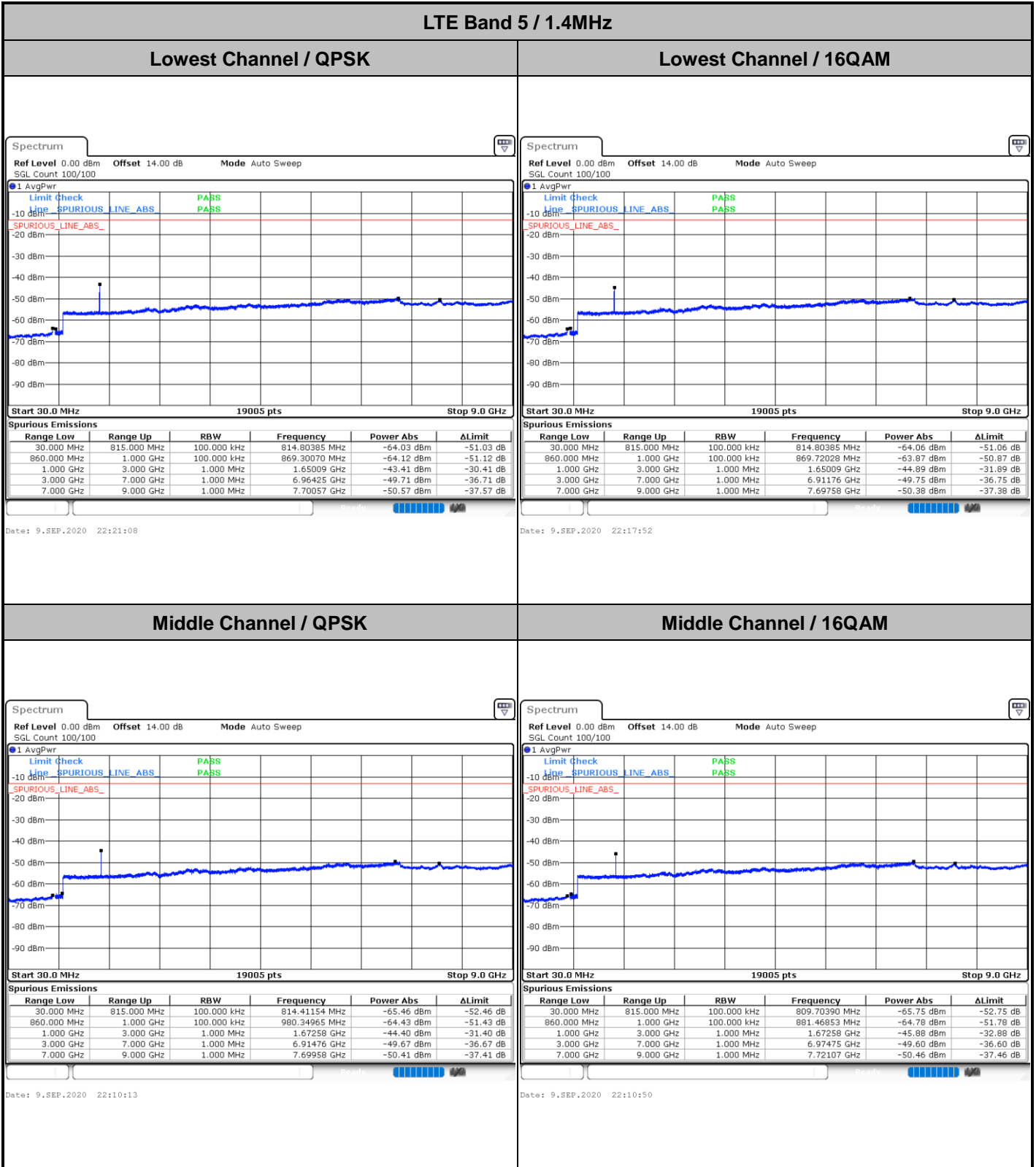


**Highest Band Edge / Full RB**





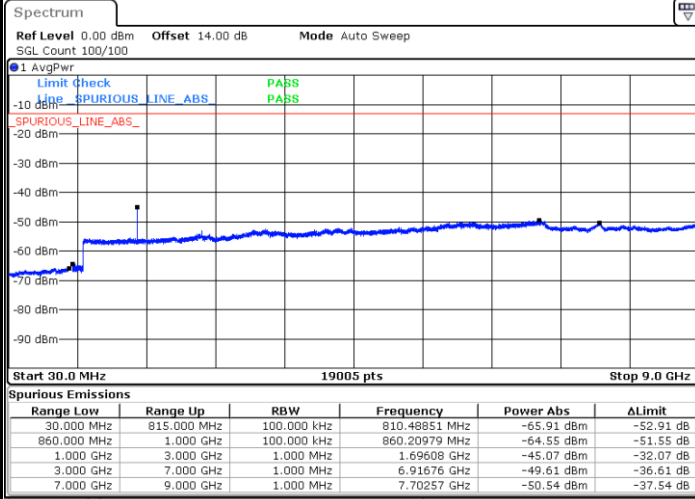
# Conducted Spurious Emission





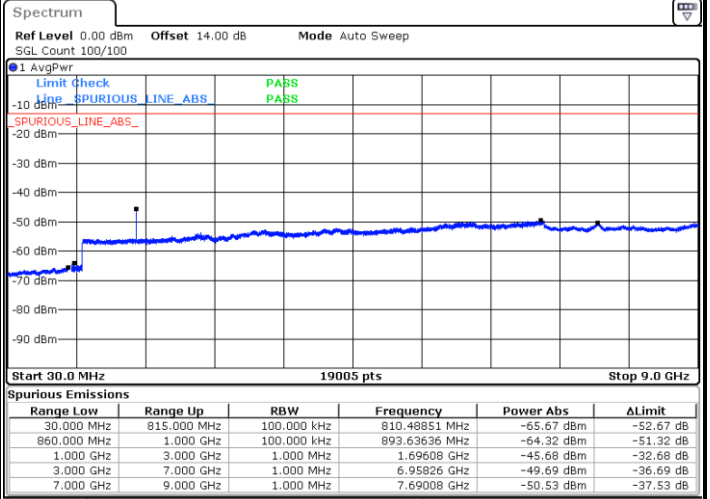
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 9.SEP.2020 22:40:17

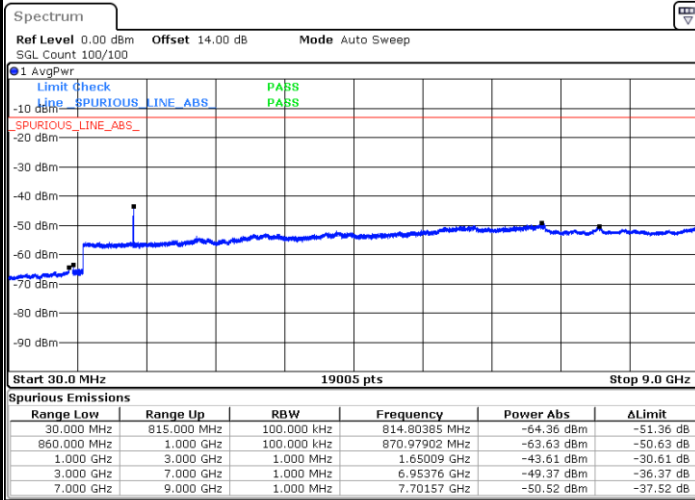
Highest Channel / 16QAM



Date: 9.SEP.2020 22:40:58

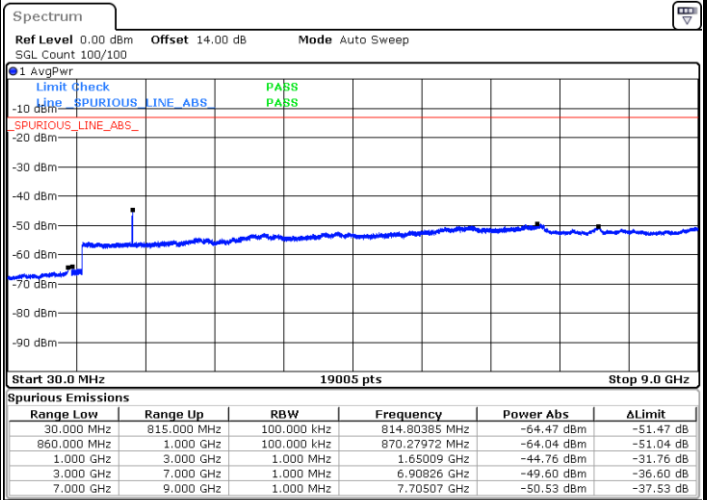
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 9.SEP.2020 20:42:59

Lowest Channel / 16QAM



Date: 9.SEP.2020 20:44:28

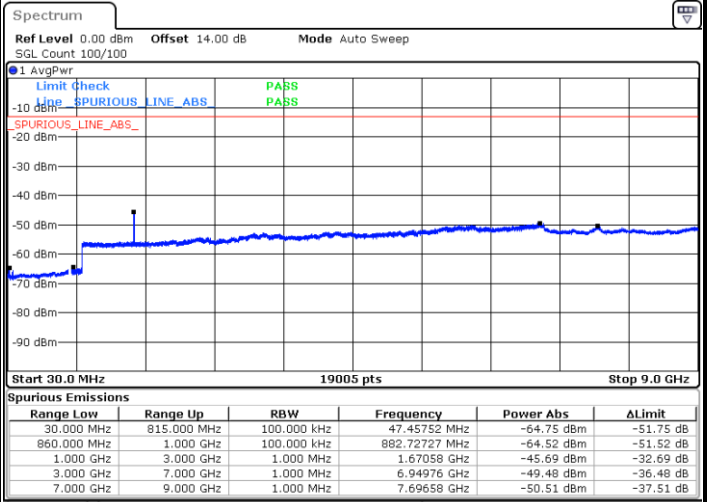
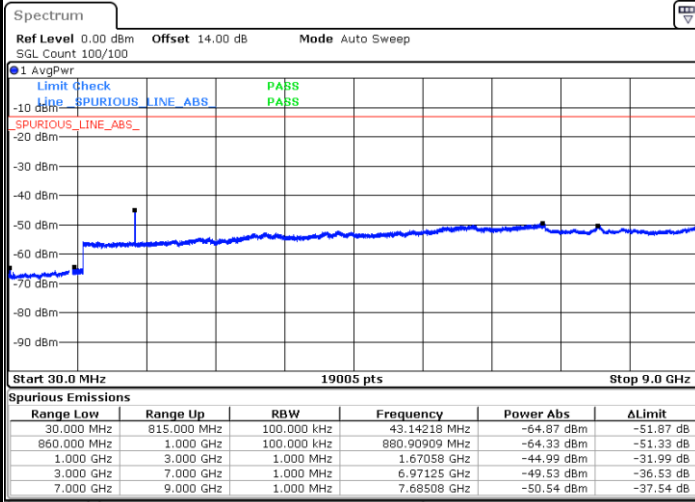




LTE Band 5 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

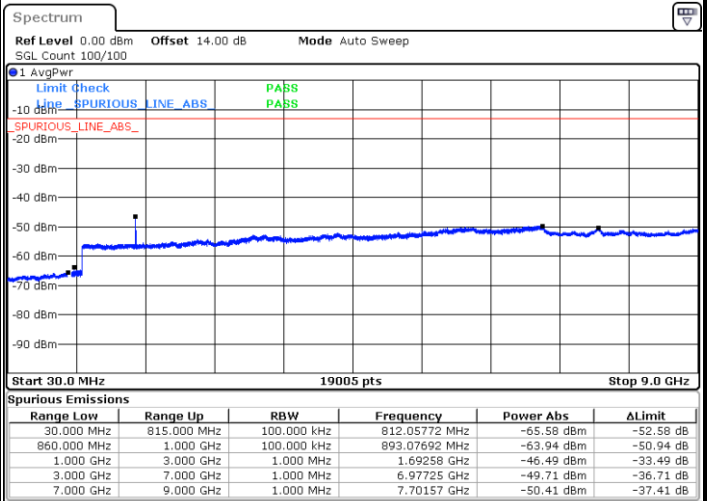
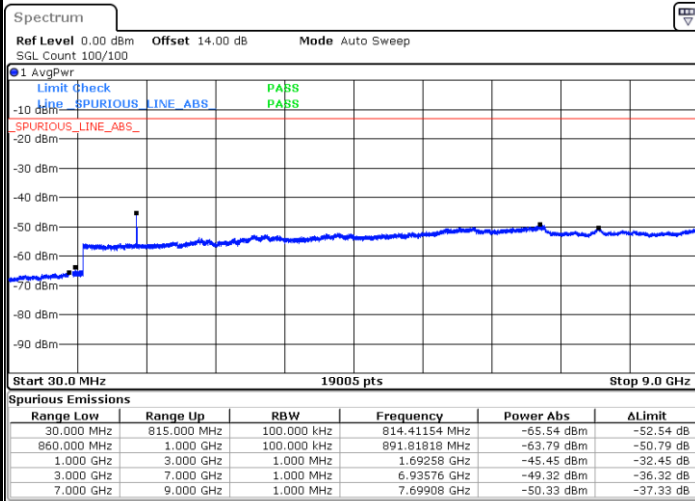


Date: 9.SEP.2020 20:41:08

Date: 9.SEP.2020 20:40:25

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 9.SEP.2020 22:03:56

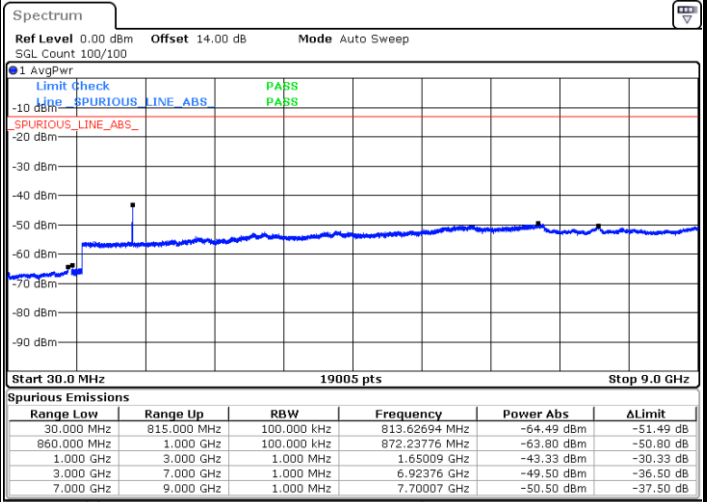
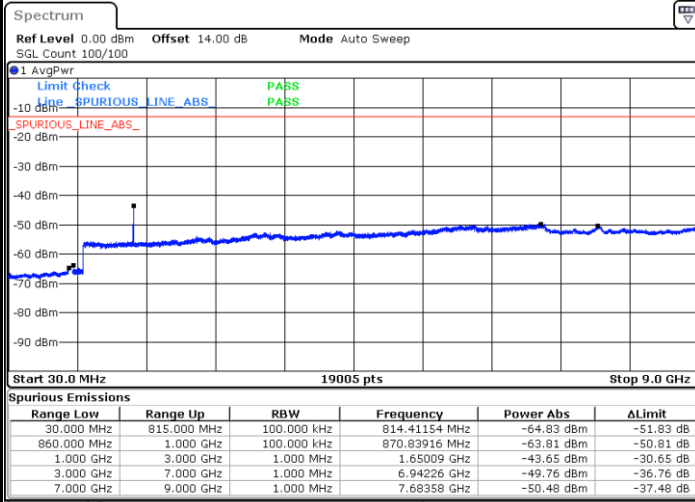
Date: 9.SEP.2020 22:01:37



LTE Band 5 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

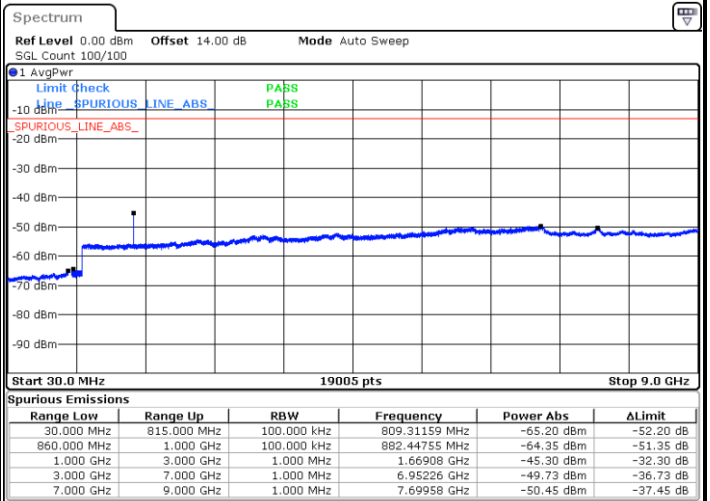
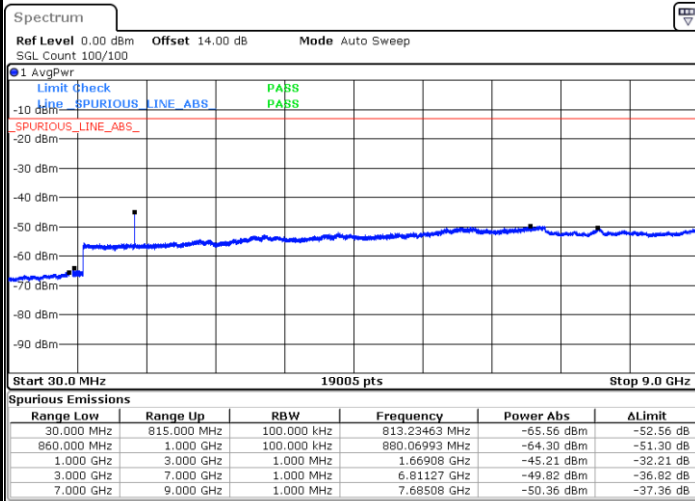


Date: 9.SEP.2020 20:22:51

Date: 9.SEP.2020 20:21:40

Middle Channel / QPSK

Middle Channel / 16QAM



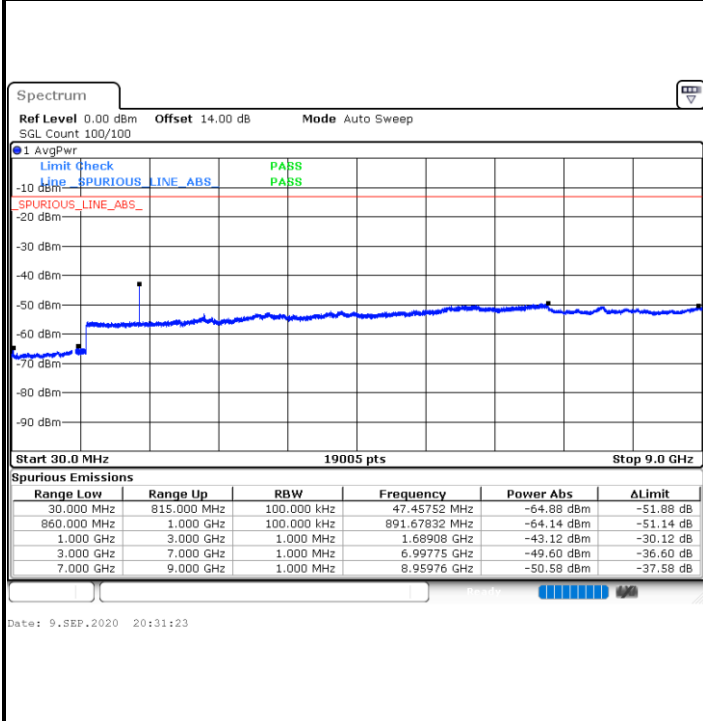
Date: 9.SEP.2020 20:18:14

Date: 9.SEP.2020 20:18:41

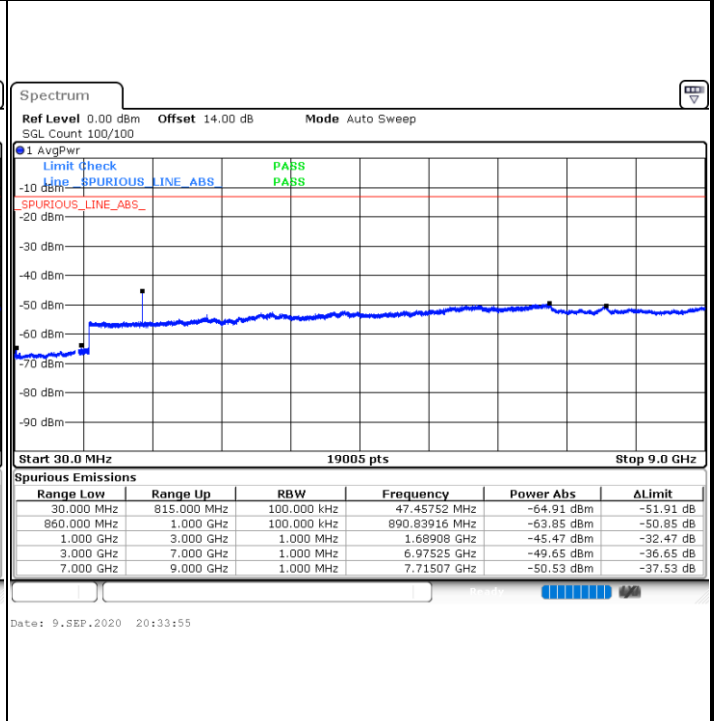


**LTE Band 5 / 5MHz**

**Highest Channel / QPSK**

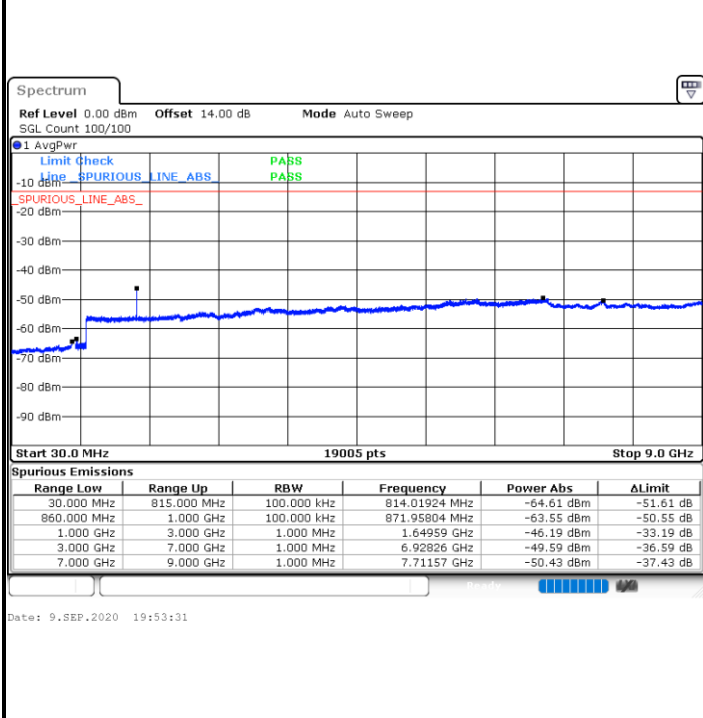


**Highest Channel / 16QAM**

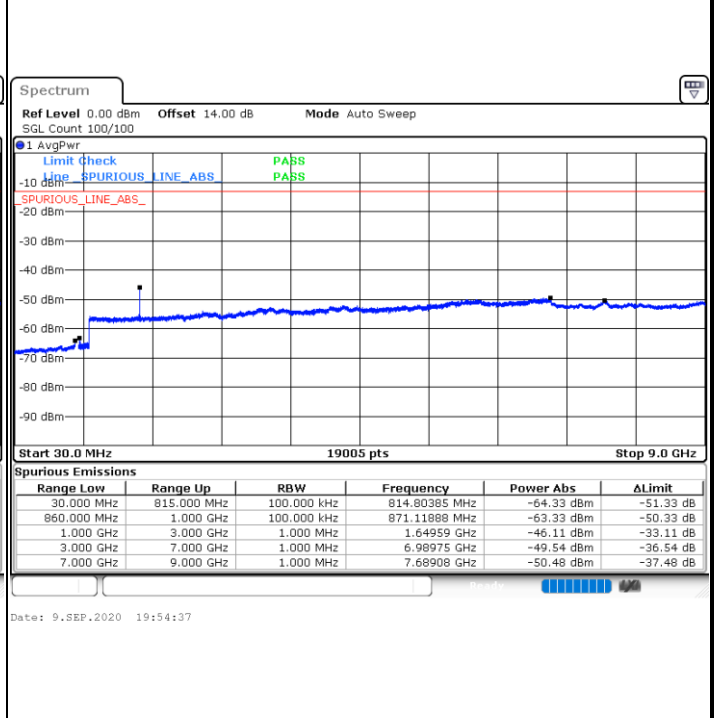


**LTE Band 5 / 10MHz**

**Lowest Channel / QPSK**



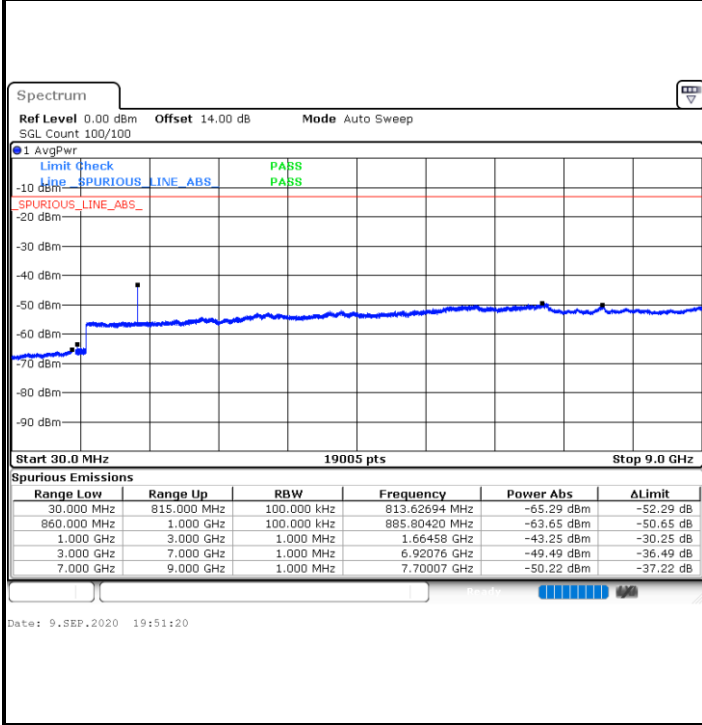
**Lowest Channel / 16QAM**



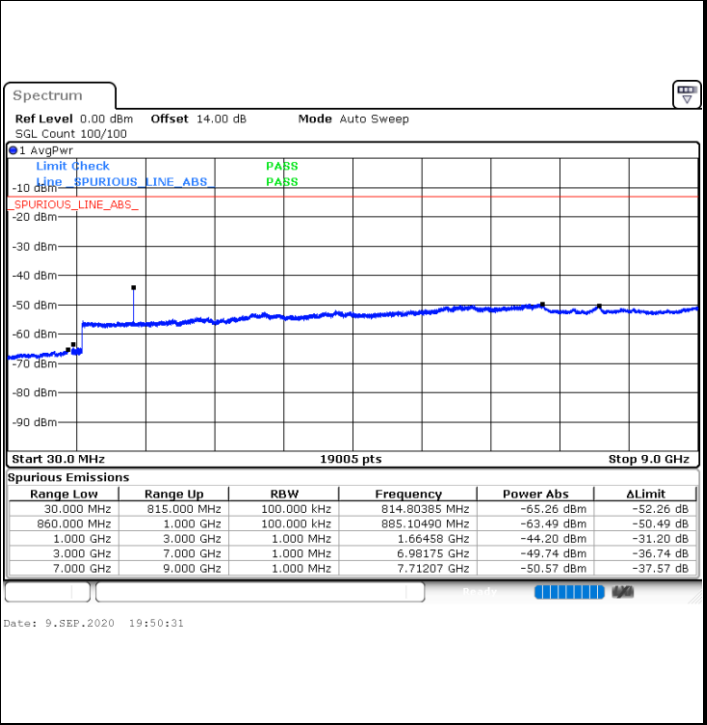


LTE Band 5 / 10MHz

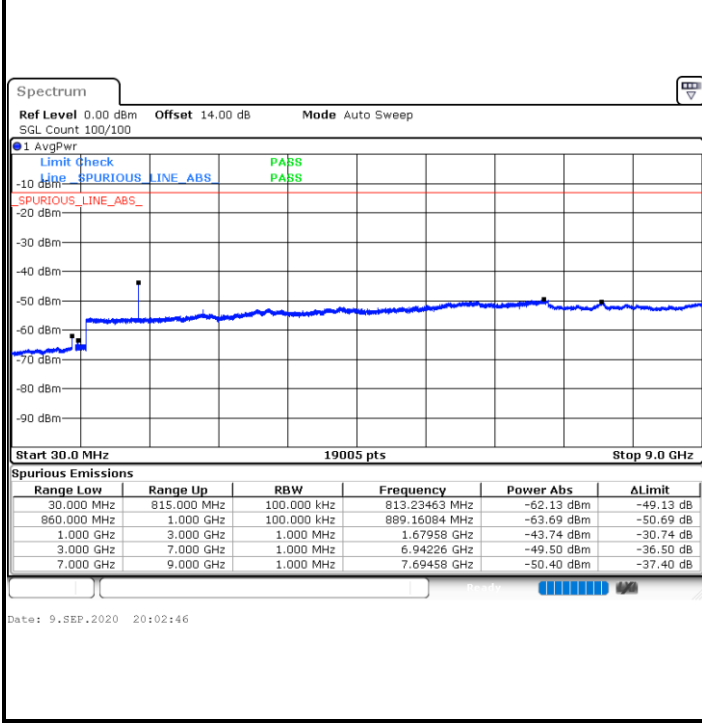
Middle Channel / QPSK



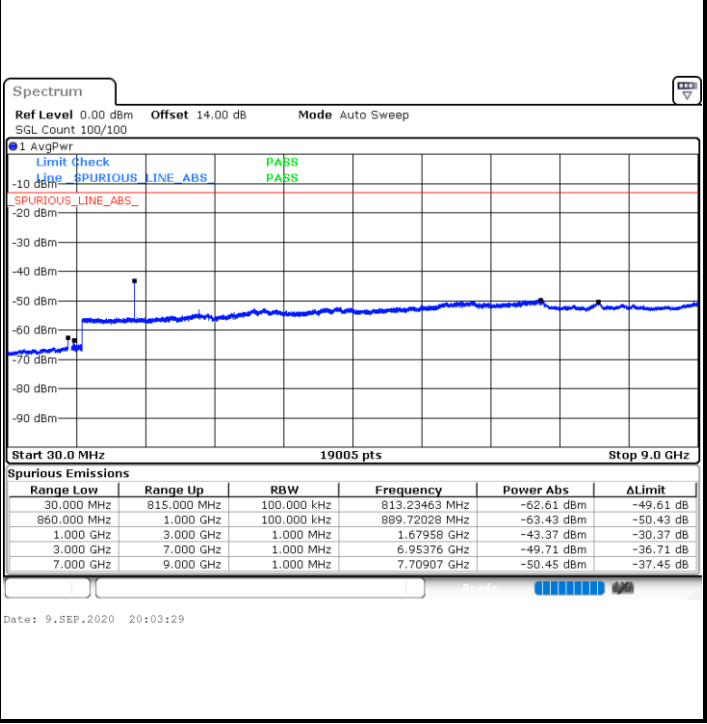
Middle Channel / 16QAM



Highest Channel / QPSK



Highest Channel / 16QAM

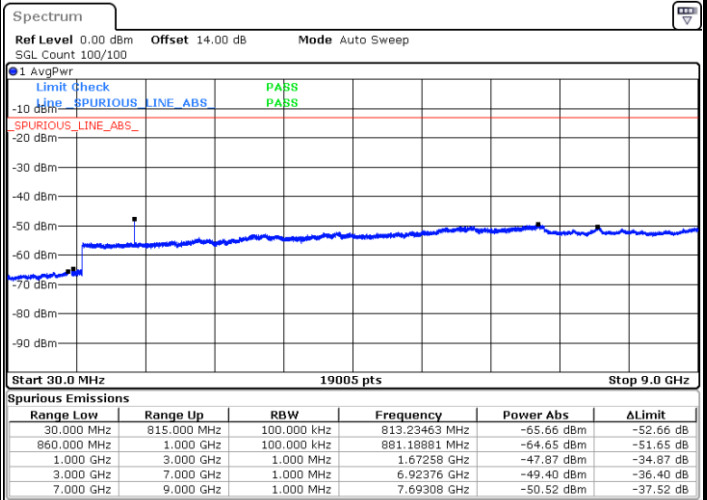
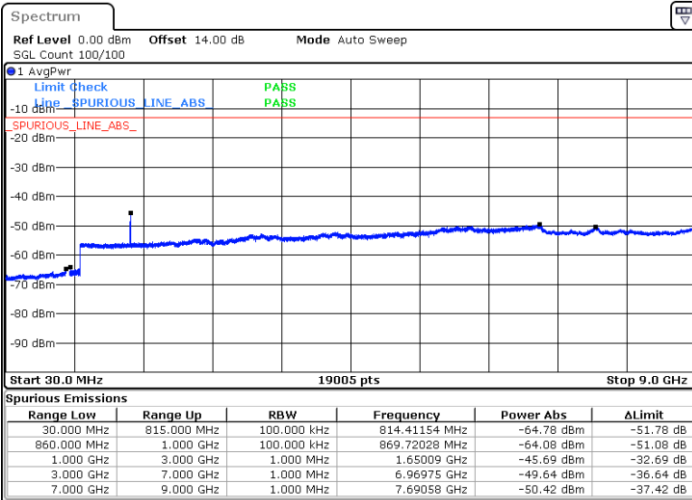




LTE Band 5 / 1.4MHz

Lowest Channel / 64QAM

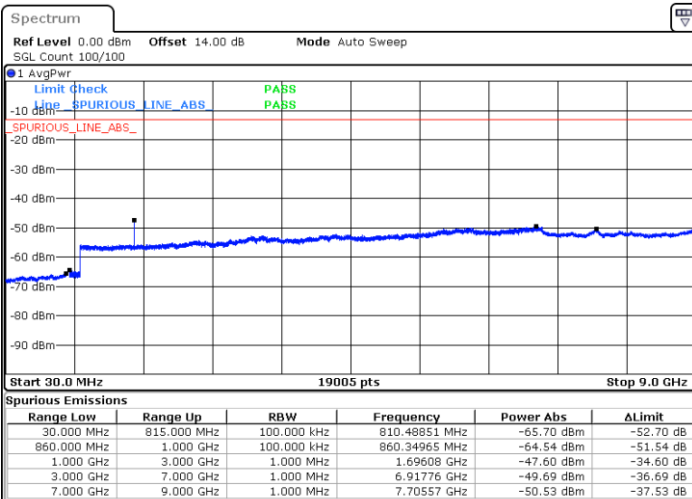
Middle Channel / 64QAM



Date: 9.SEP.2020 22:14:47

Date: 9.SEP.2020 22:11:25

Highest Channel / 64QAM



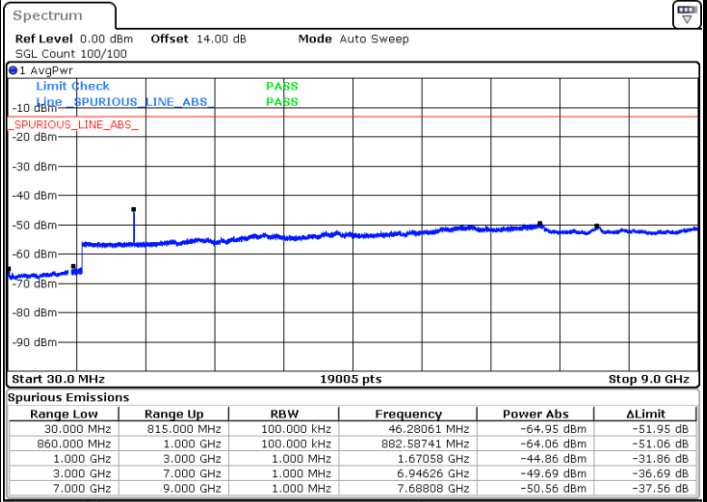
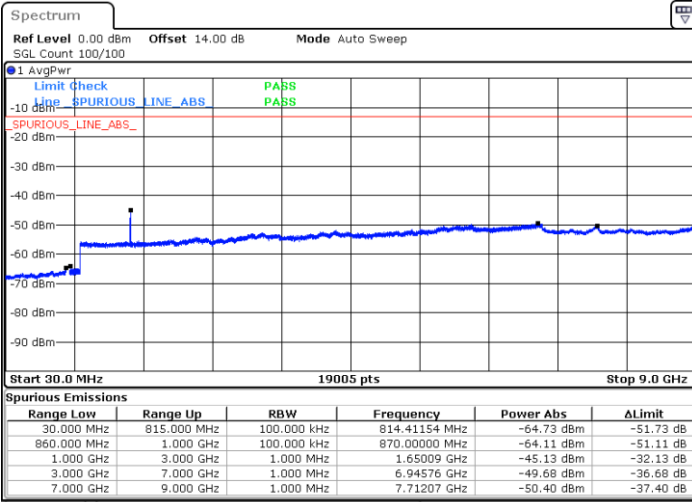
Date: 9.SEP.2020 22:41:33



LTE Band 5 / 3MHz

Lowest Channel / 64QAM

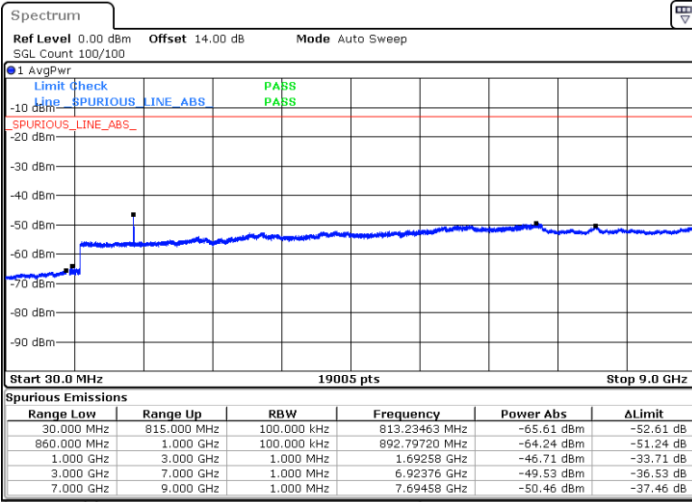
Middle Channel / 64QAM



Date: 9.SEP.2020 20:46:55

Date: 9.SEP.2020 20:39:54

Highest Channel / 64QAM



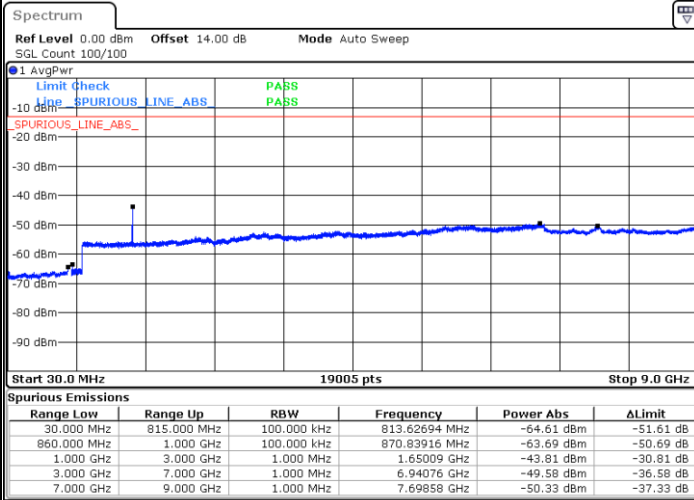
Date: 9.SEP.2020 22:00:56



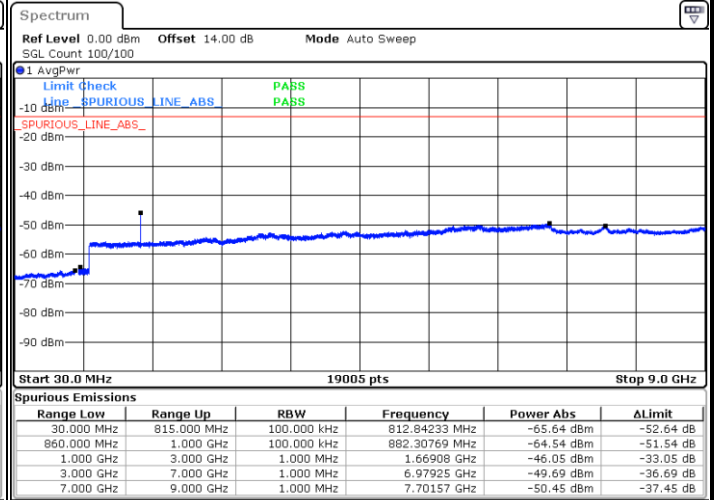
LTE Band 5 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

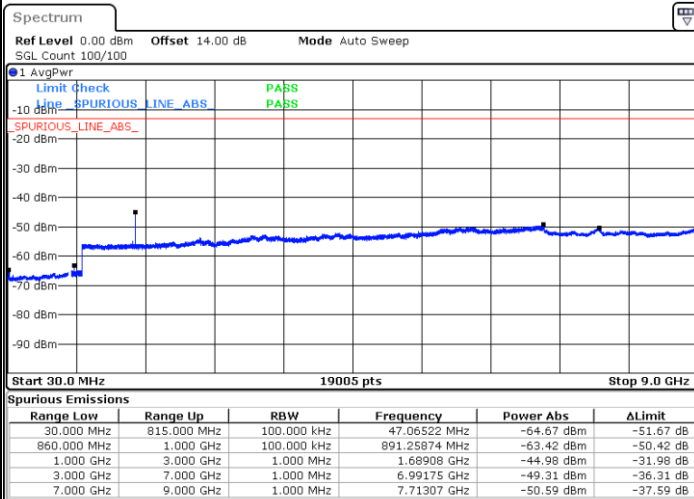


Date: 9.SEP.2020 20:20:27



Date: 9.SEP.2020 20:19:18

Highest Channel / 64QAM



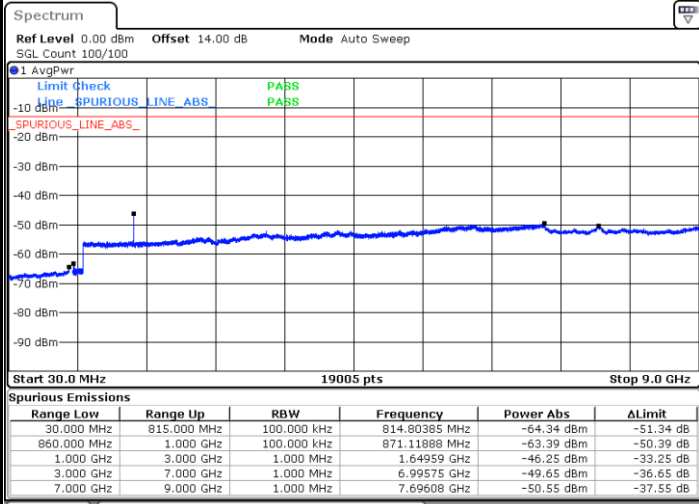
Date: 9.SEP.2020 20:34:36



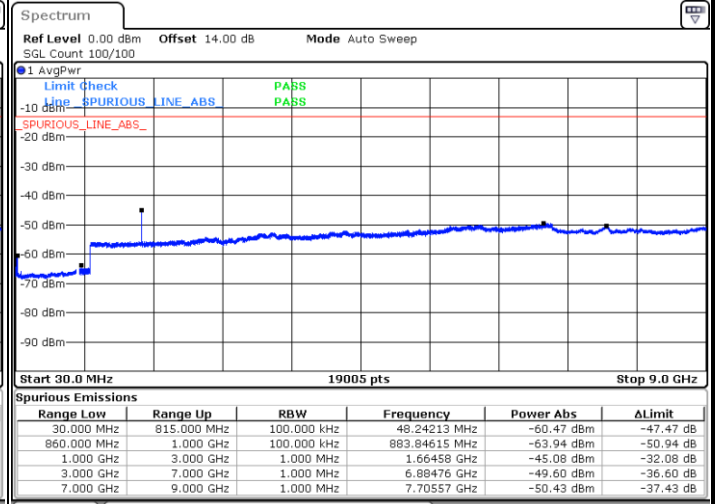
LTE Band 5 / 10MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

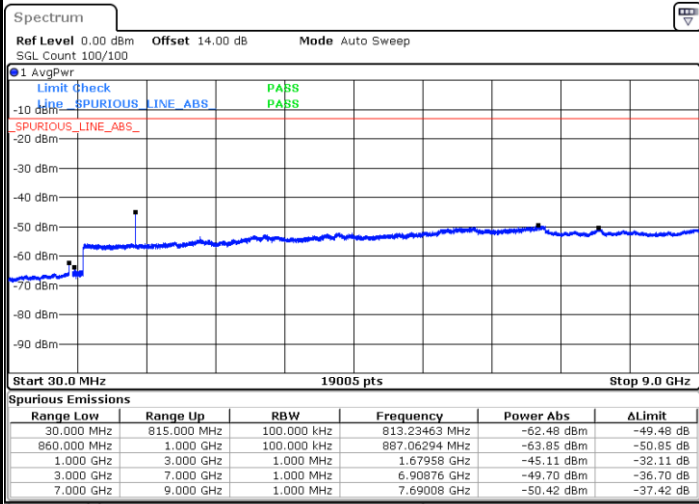


Date: 9.SEP.2020 19:55:40



Date: 9.SEP.2020 19:49:25

Highest Channel / 64QAM



Date: 9.SEP.2020 20:04:21





Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0054	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0073	
0	Normal Voltage	0.0033	
-10	Normal Voltage	0.0042	
-20	Normal Voltage	0.0024	
-30	Normal Voltage	0.0006	
20	Maximum Voltage	0.0022	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0037	

Note: Normal Voltage/ Maximum Voltage =4.0 V. ; Battery End Point (BEP) =3.7 V.



# LTE Band 12

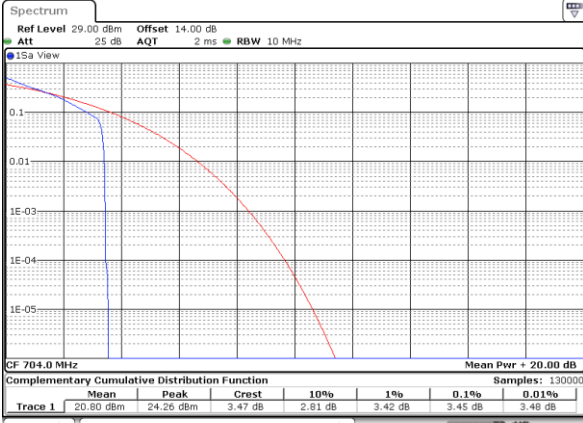
## Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.45	4.64	4.93	5.88	PASS
Middle CH	3.48	4.61	4.58	5.86	
Highest CH	3.59	4.23	5.13	5.65	
Mode	LTE Band 12 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.13	5.83	-	-	PASS
Middle CH	4.81	5.83	-	-	
Highest CH	5.39	5.59	-	-	



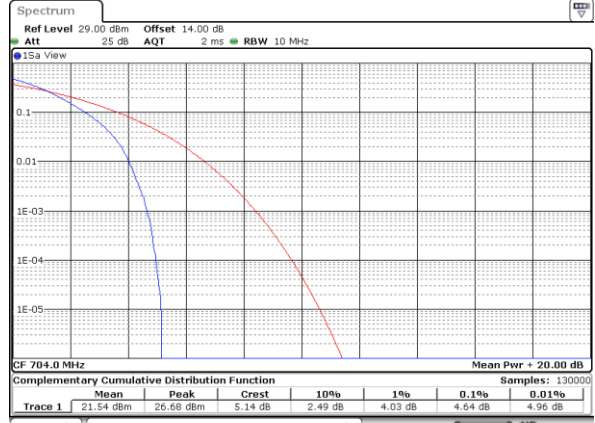
LTE Band 12 / 10MHz / QPSK

Lowest Channel / 1RB



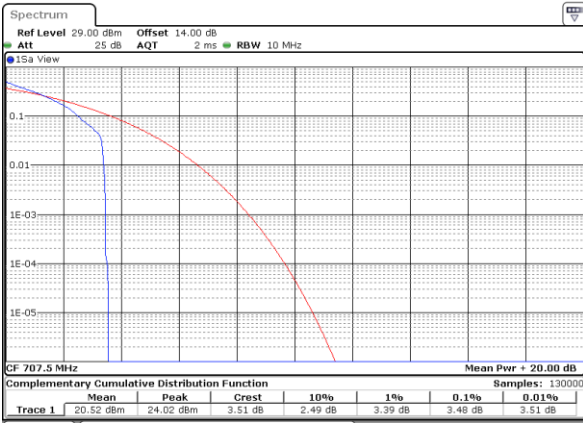
Date: 8 SEP 2020 21:17:30

Lowest Channel / Full RB



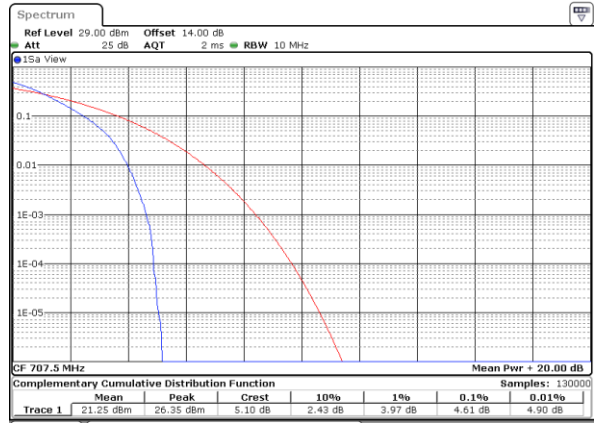
Date: 8 SEP 2020 21:18:35

Middle Channel / 1RB



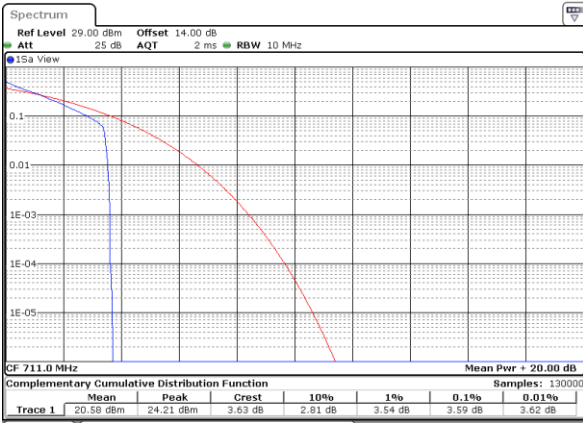
Date: 8 SEP 2020 21:16:54

Middle Channel / Full RB



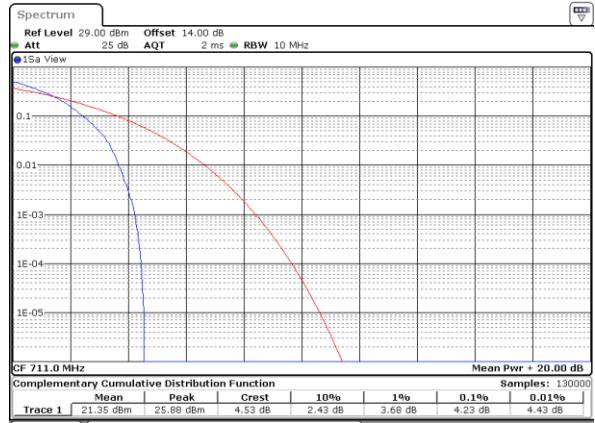
Date: 8 SEP 2020 21:15:45

Highest Channel / 1RB



Date: 8 SEP 2020 21:14:17

Highest Channel / Full RB

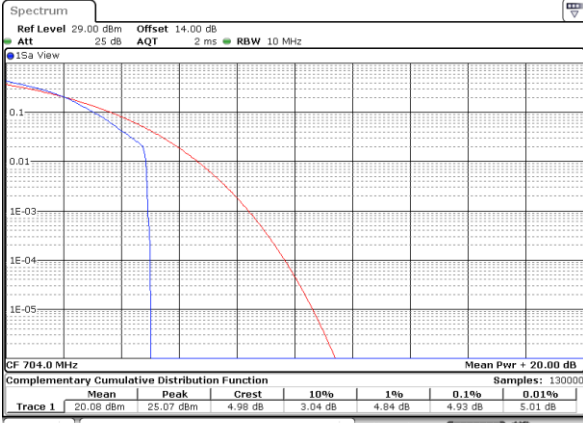


Date: 8 SEP 2020 21:15:27



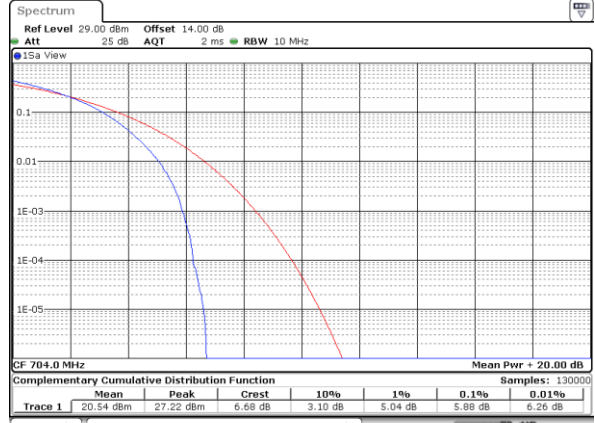
LTE Band 12 / 10MHz / 16QAM

Lowest Channel / 1RB



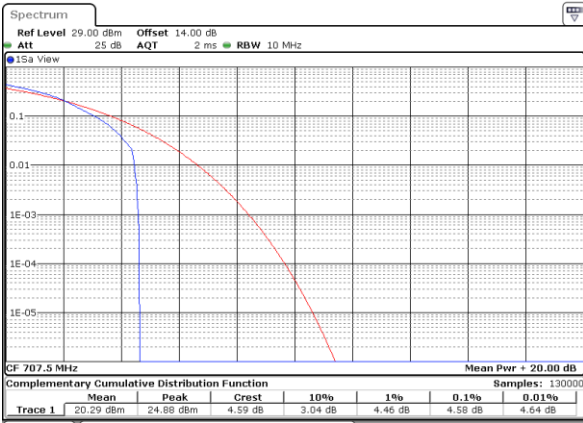
Date: 8 SEP 2020 21:17:43

Lowest Channel / Full RB



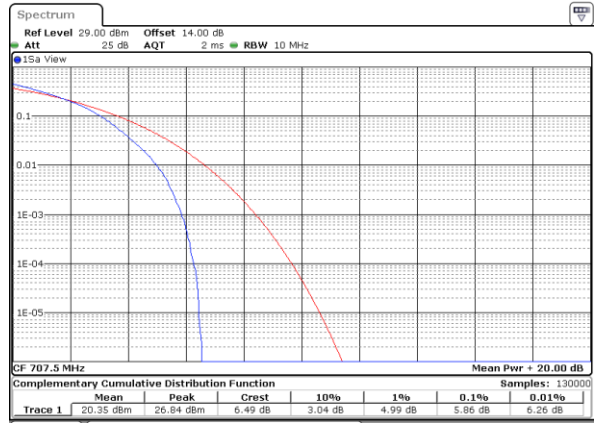
Date: 8 SEP 2020 21:18:24

Middle Channel / 1RB



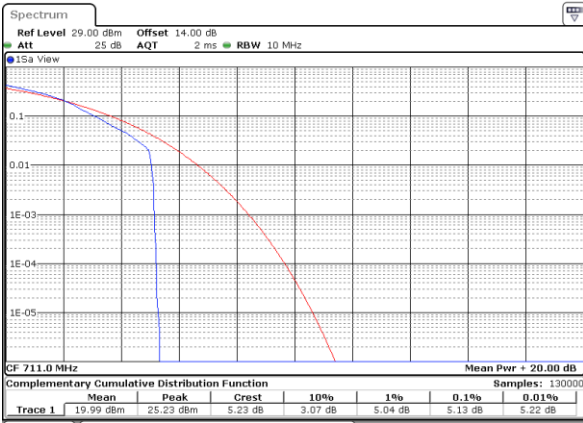
Date: 8 SEP 2020 21:16:41

Middle Channel / Full RB



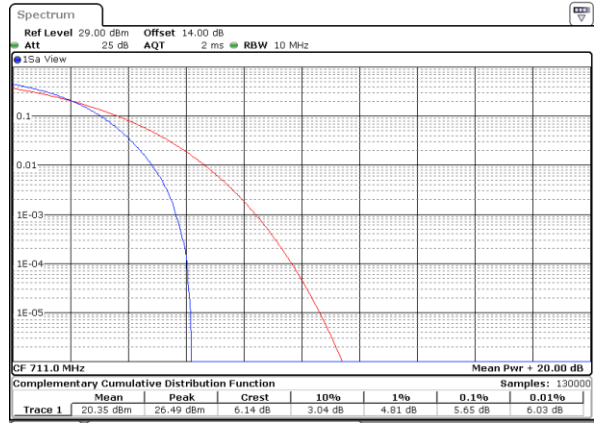
Date: 8 SEP 2020 21:15:58

Highest Channel / 1RB



Date: 8 SEP 2020 21:14:32

Highest Channel / Full RB

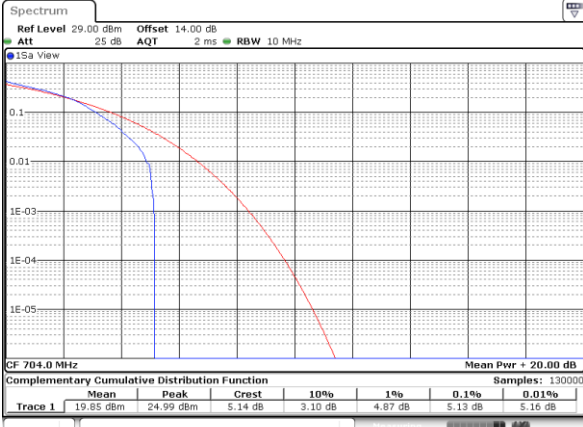


Date: 8 SEP 2020 21:15:15



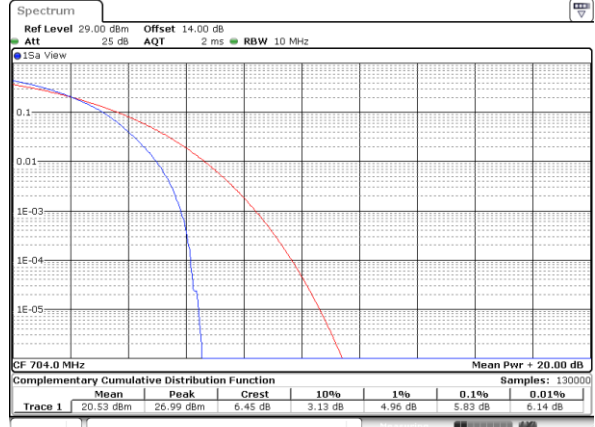
LTE Band 12 / 10MHz / 64QAM

Lowest Channel / 1RB



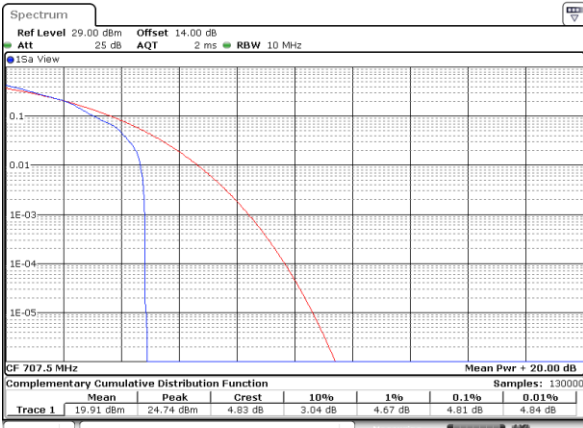
Date: 8 SEP 2020 21:17:55

Lowest Channel / Full RB



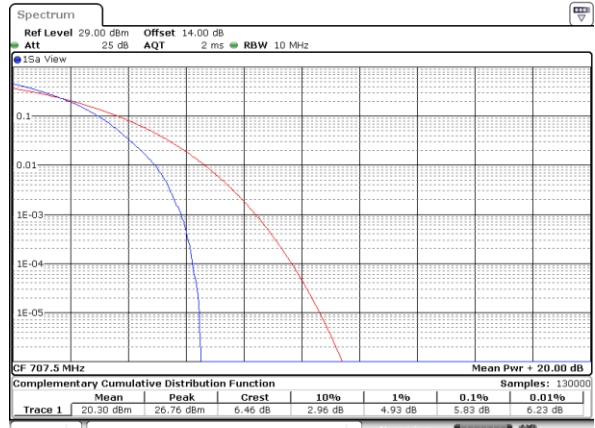
Date: 8 SEP 2020 21:18:11

Middle Channel / 1RB



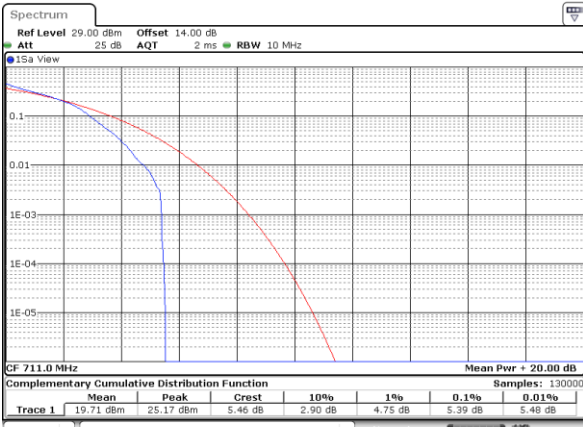
Date: 8 SEP 2020 21:16:28

Middle Channel / Full RB



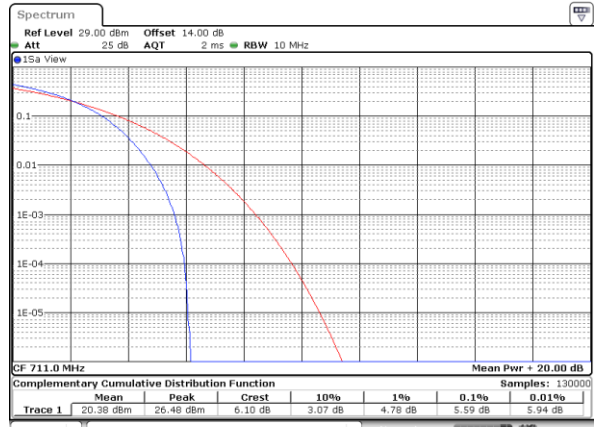
Date: 8 SEP 2020 21:16:12

Highest Channel / 1RB



Date: 8 SEP 2020 21:14:45

Highest Channel / Full RB



Date: 8 SEP 2020 21:15:01



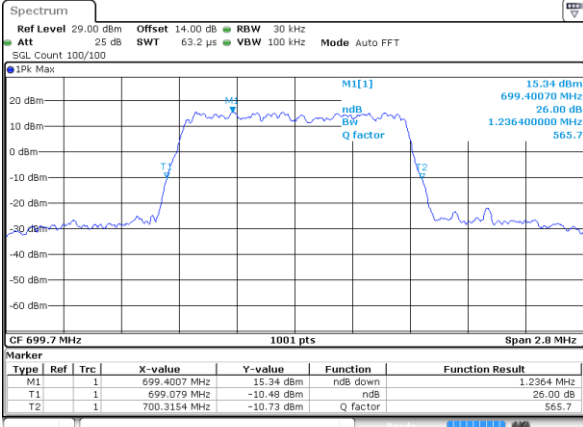
**26dB Bandwidth**

Mode	LTE Band 12 : 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	1.24	1.23	3.02	3.02	4.87	4.89	9.93	9.71	-	-	-	-
Middle CH	1.21	1.23	3.00	2.99	4.83	4.85	9.73	9.69	-	-	-	-
Highest CH	1.23	1.22	3.00	2.97	4.82	4.89	9.73	9.69	-	-	-	-
Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.23	-	3.05	-	4.84	-	9.99	-	-	-	-	-
Middle CH	1.22	-	3.02	-	4.91	-	9.83	-	-	-	-	-
Highest CH	1.23	-	3.03	-	4.83	-	9.71	-	-	-	-	-



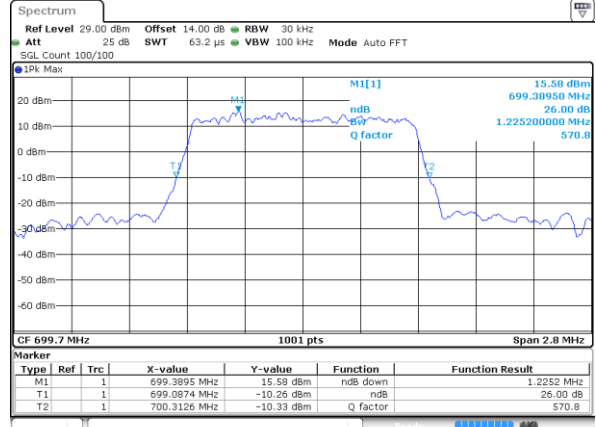
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



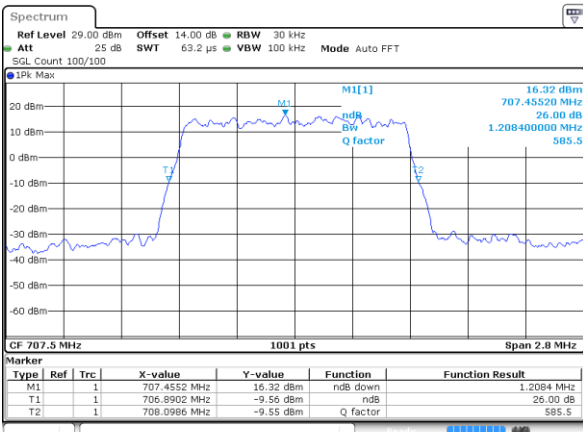
Date: 8 SEP 2020 20:38:13

Lowest Channel / 1.4MHz / 16QAM



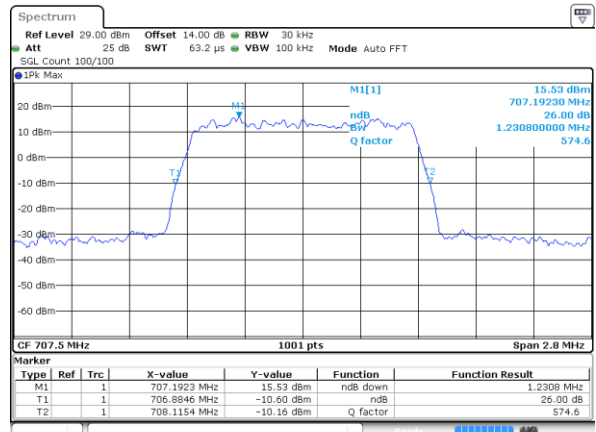
Date: 8 SEP 2020 20:37:15

Middle Channel / 1.4MHz / QPSK



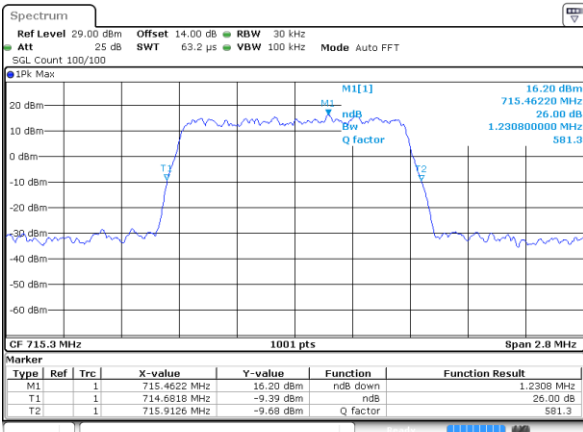
Date: 8 SEP 2020 19:59:07

Middle Channel / 1.4MHz / 16QAM



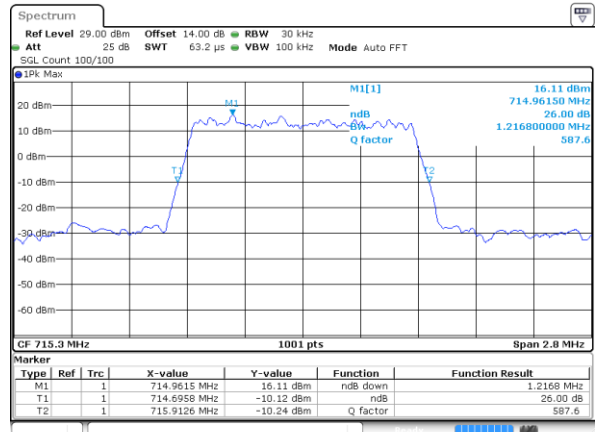
Date: 8 SEP 2020 19:59:28

Highest Channel / 1.4MHz / QPSK



Date: 8 SEP 2020 20:44:53

Highest Channel / 1.4MHz / 16QAM

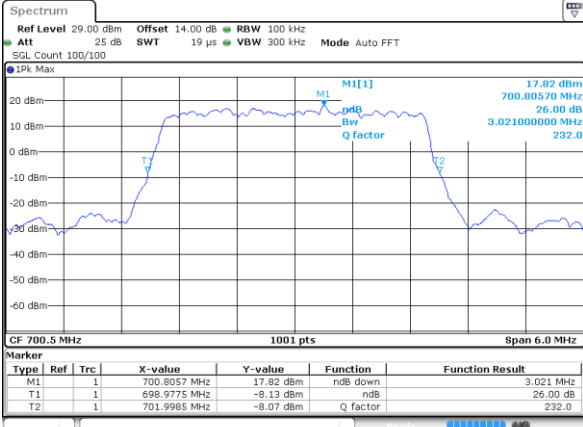


Date: 8 SEP 2020 20:45:22



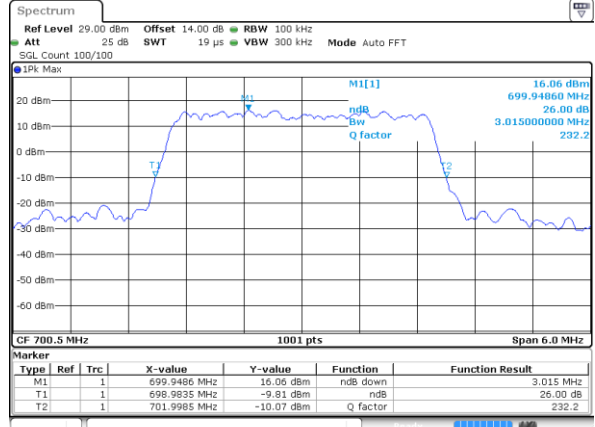
LTE Band 12

Lowest Channel / 3MHz / QPSK



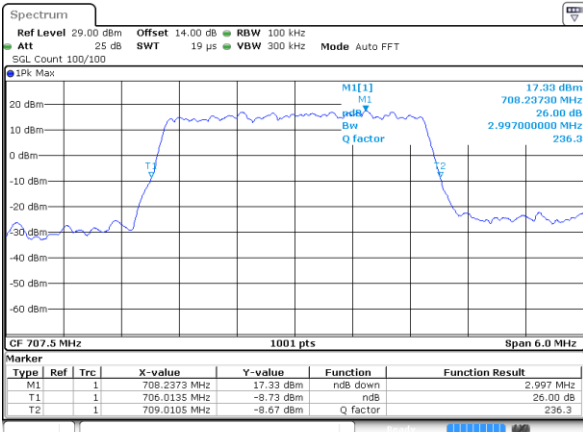
Date: 8 SEP 2020 19:47:45

Lowest Channel / 3MHz / 16QAM



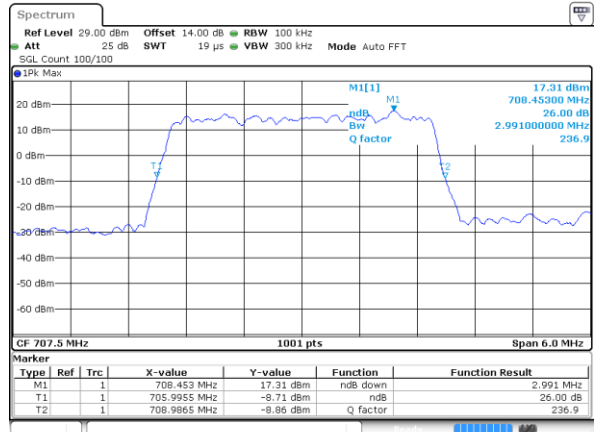
Date: 8 SEP 2020 19:48:43

Middle Channel / 3MHz / QPSK



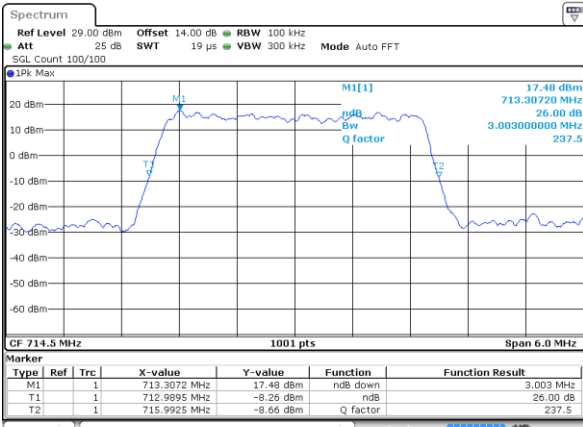
Date: 8 SEP 2020 19:39:26

Middle Channel / 3MHz / 16QAM



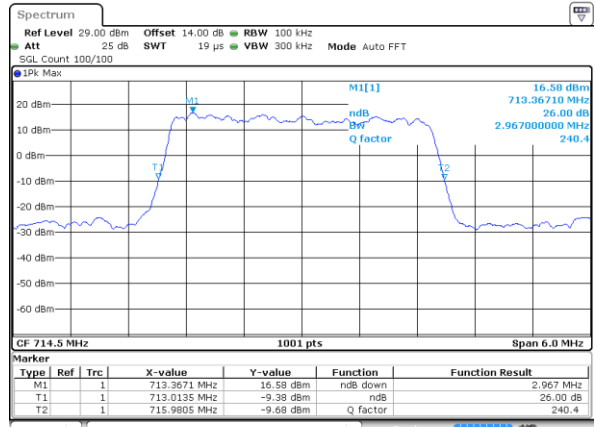
Date: 8 SEP 2020 19:39:05

Highest Channel / 3MHz / QPSK



Date: 8 SEP 2020 19:52:39

Highest Channel / 3MHz / 16QAM



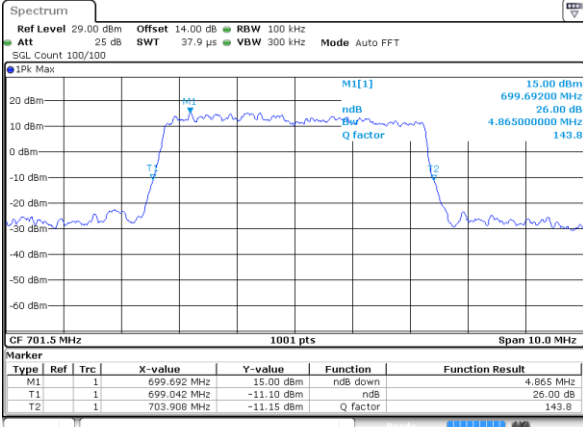
Date: 8 SEP 2020 19:51:39





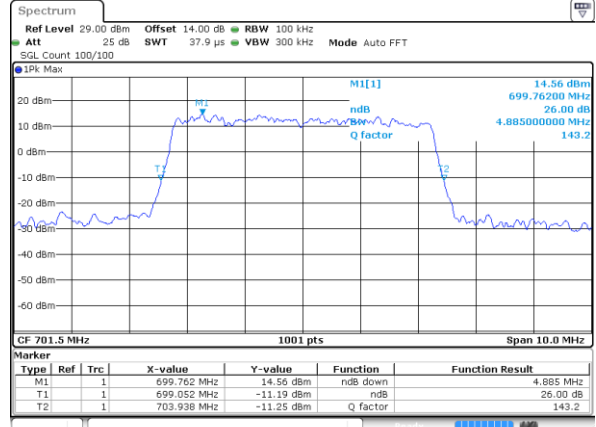
LTE Band 12

Lowest Channel / 5MHz / QPSK



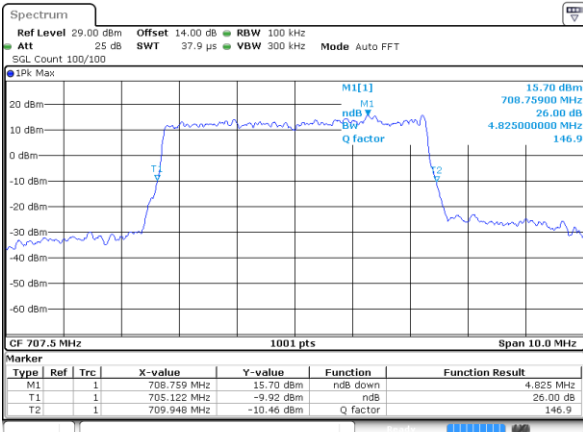
Date: 8 SEP 2020 19:29:41

Lowest Channel / 5MHz / 16QAM



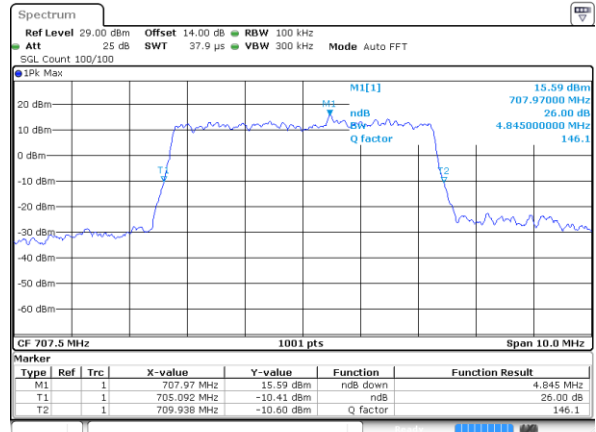
Date: 8 SEP 2020 19:28:50

Middle Channel / 5MHz / QPSK



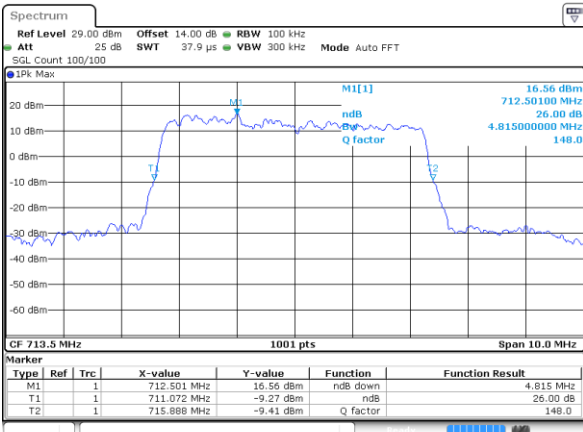
Date: 8 SEP 2020 19:21:14

Middle Channel / 5MHz / 16QAM



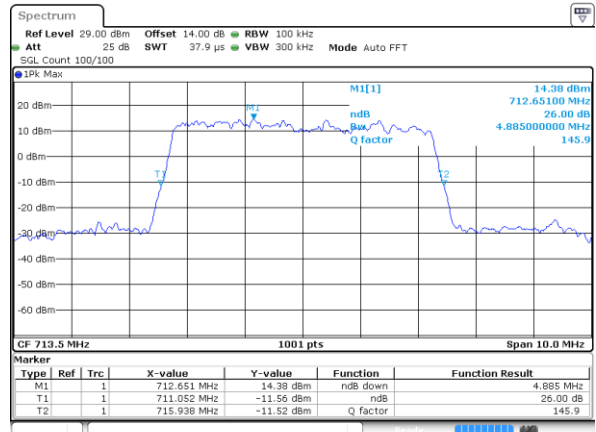
Date: 8 SEP 2020 19:21:39

Highest Channel / 5MHz / QPSK



Date: 8 SEP 2020 19:30:37

Highest Channel / 5MHz / 16QAM



Date: 8 SEP 2020 19:31:49