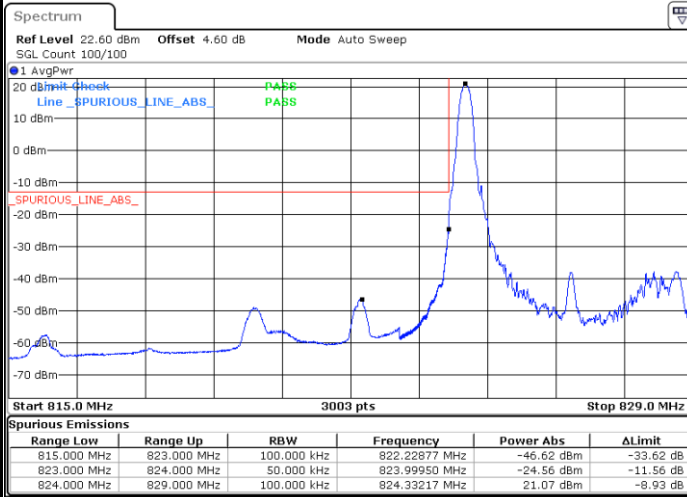




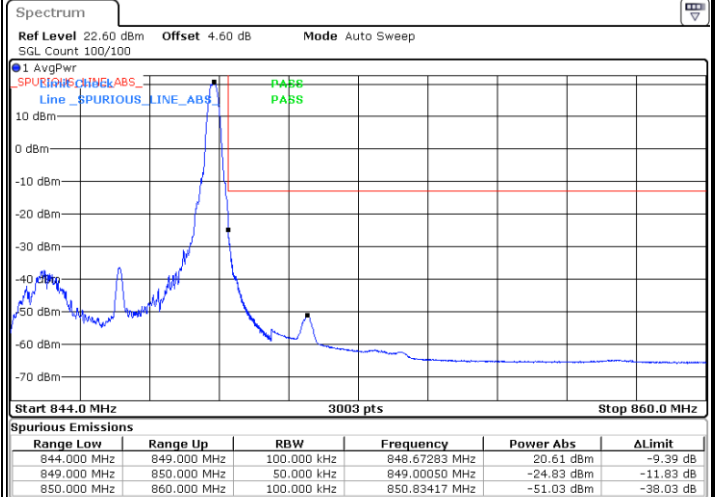
LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / 1 RB



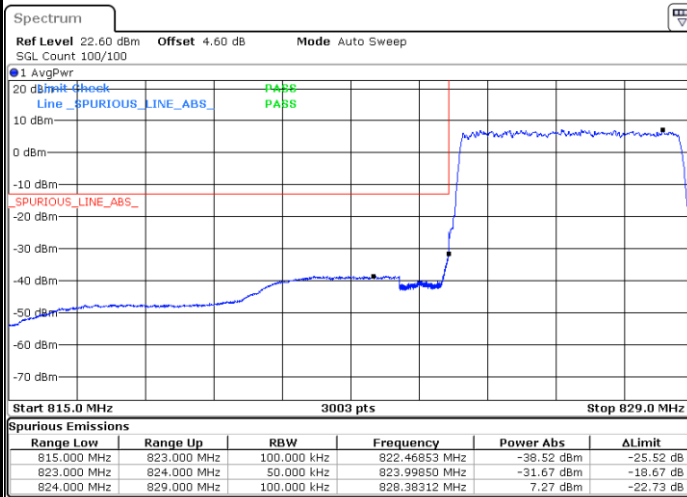
Date: 4 JUL 2020 16:11:31

Highest Band Edge / 1 RB



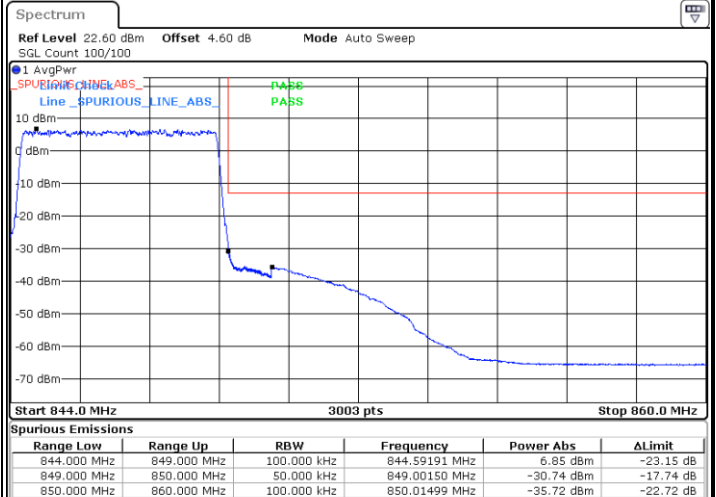
Date: 4 JUL 2020 16:22:59

Lowest Band Edge / Full RB



Date: 4 JUL 2020 16:14:46

Highest Band Edge / Full RB

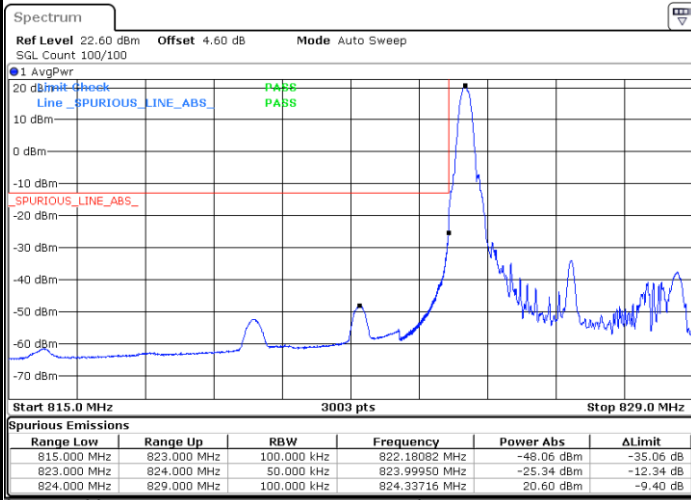


Date: 4 JUL 2020 16:26:14



LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / 1RB



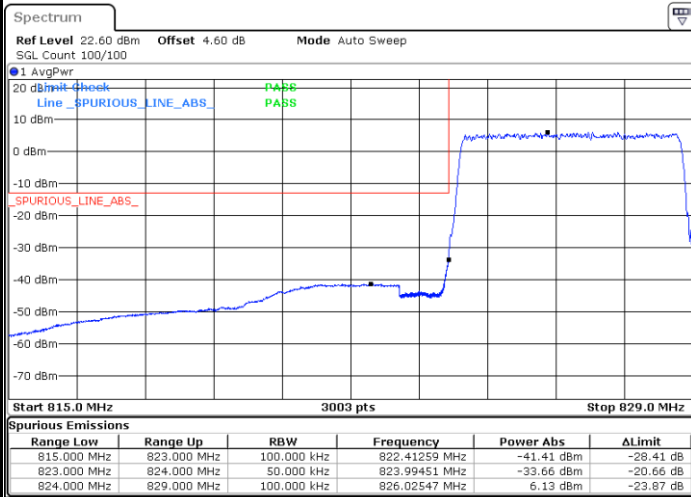
Date: 4 JUL 2020 16:13:09

Highest Band Edge / 1 RB



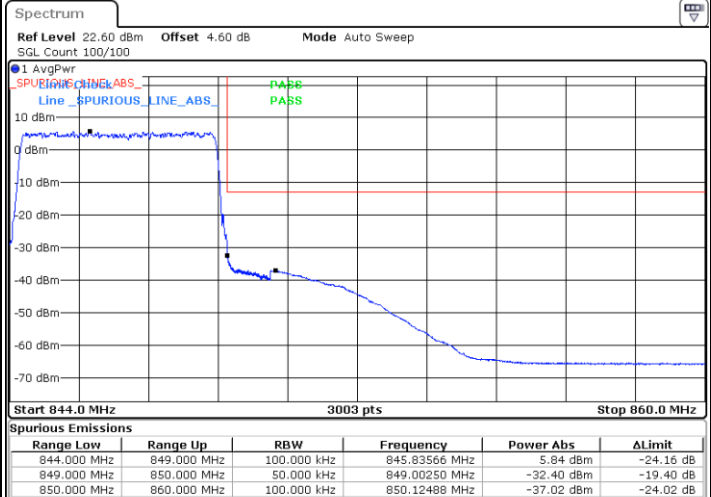
Date: 4 JUL 2020 16:24:37

Lowest Band Edge / Full RB



Date: 4 JUL 2020 16:16:24

Highest Band Edge / Full RB

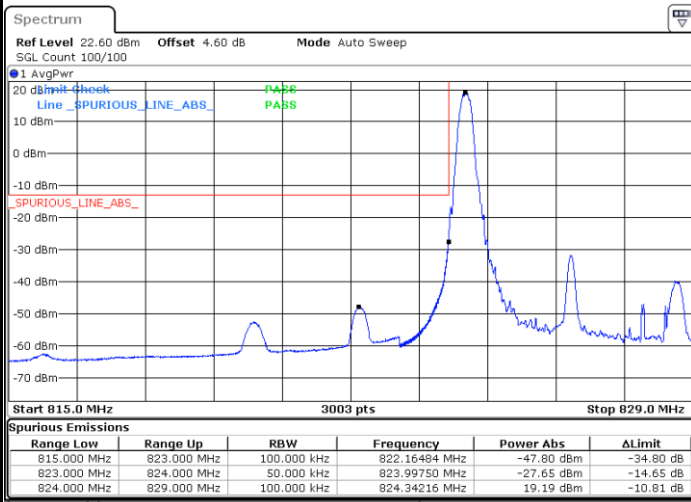


Date: 4 JUL 2020 16:27:52



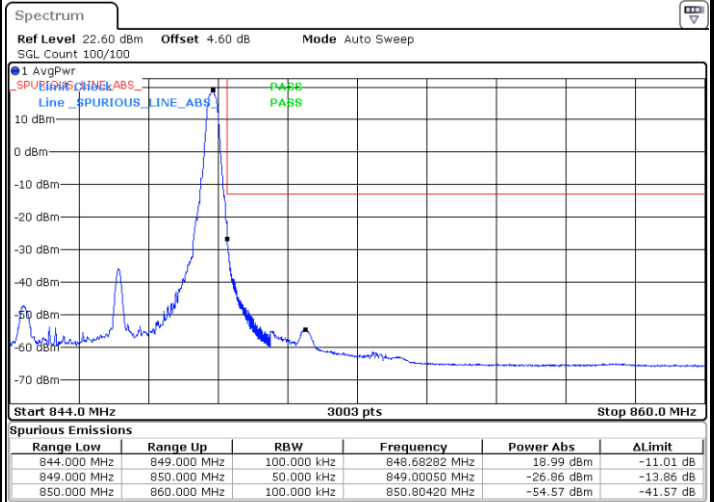
LTE Band 5 / 5MHz / 64QAM

Lowest Band Edge / 1RB



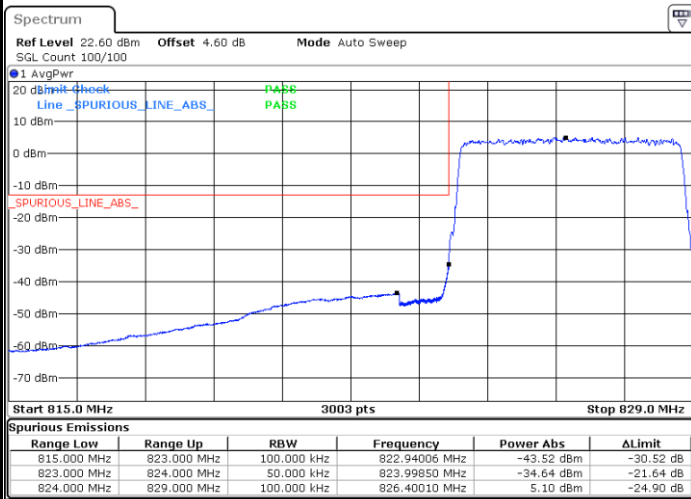
Date: 4 JUL 2020 17:47:23

Highest Band Edge / 1 RB



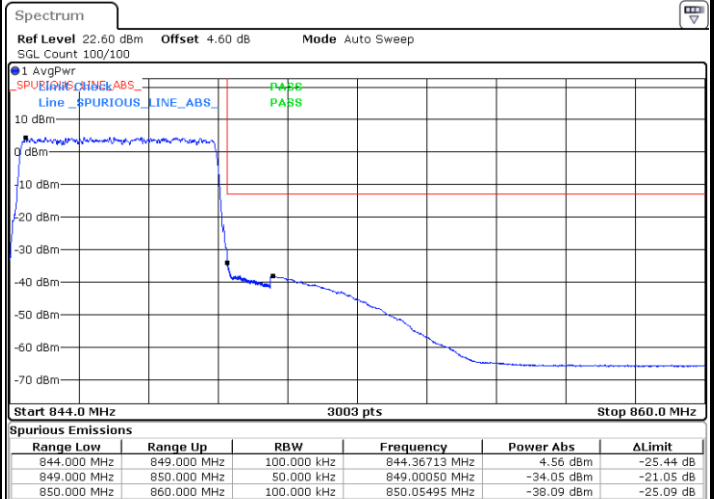
Date: 4 JUL 2020 17:53:07

Lowest Band Edge / Full RB



Date: 4 JUL 2020 17:45:46

Highest Band Edge / Full RB

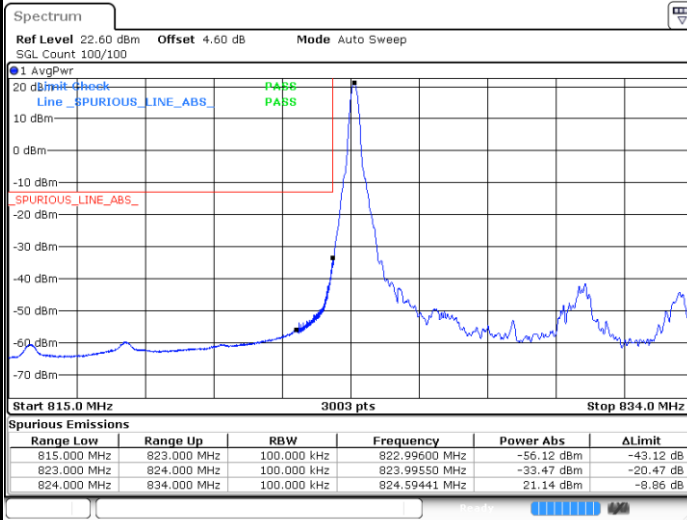


Date: 4 JUL 2020 17:51:29



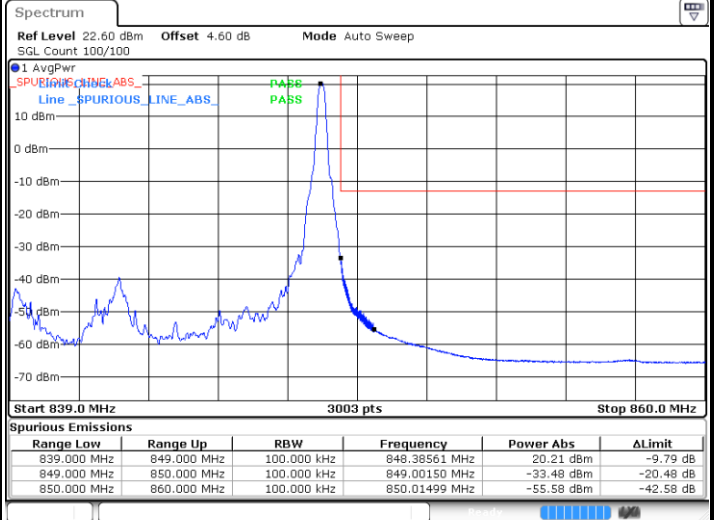
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB



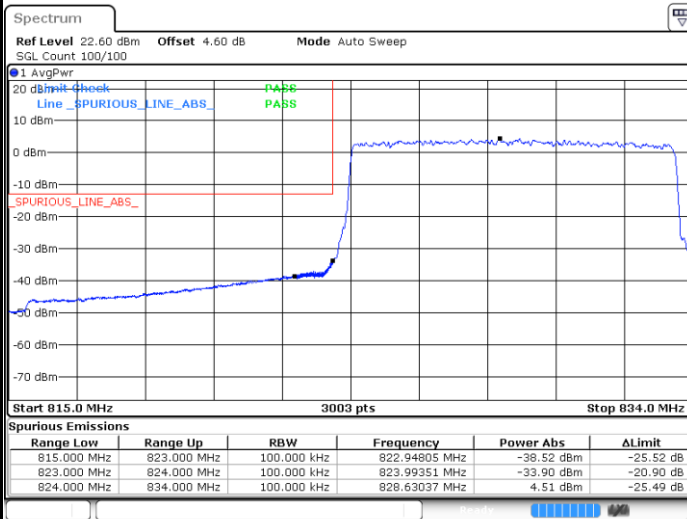
Date: 4 JUL 2020 16:31:58

Highest Band Edge / 1 RB



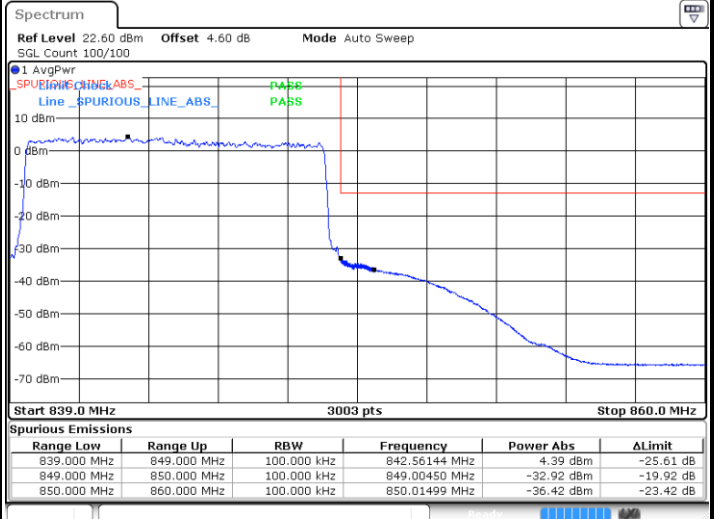
Date: 4 JUL 2020 16:43:26

Lowest Band Edge / Full RB



Date: 4 JUL 2020 16:35:13

Highest Band Edge / Full RB

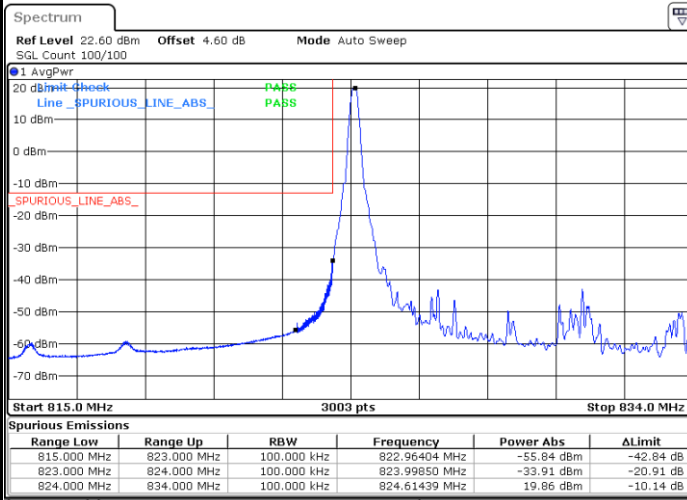


Date: 4 JUL 2020 16:46:41



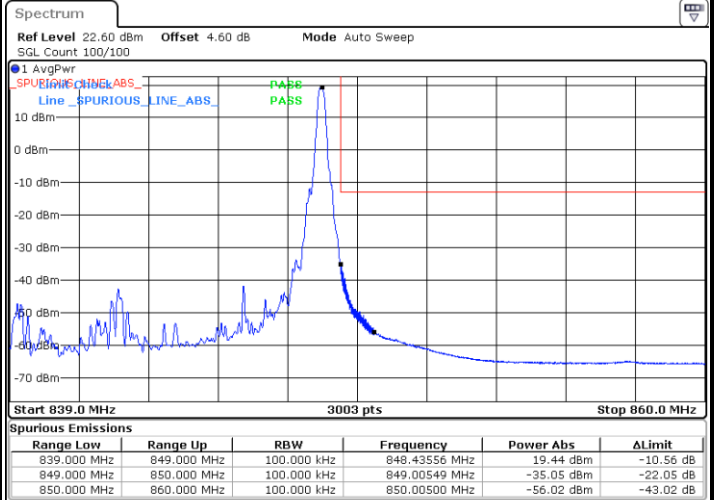
LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



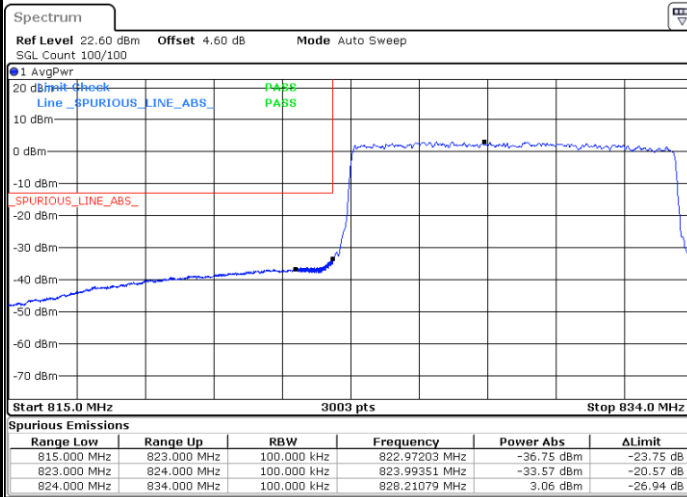
Date: 4 JUL 2020 16:33:35

Highest Band Edge / 1 RB



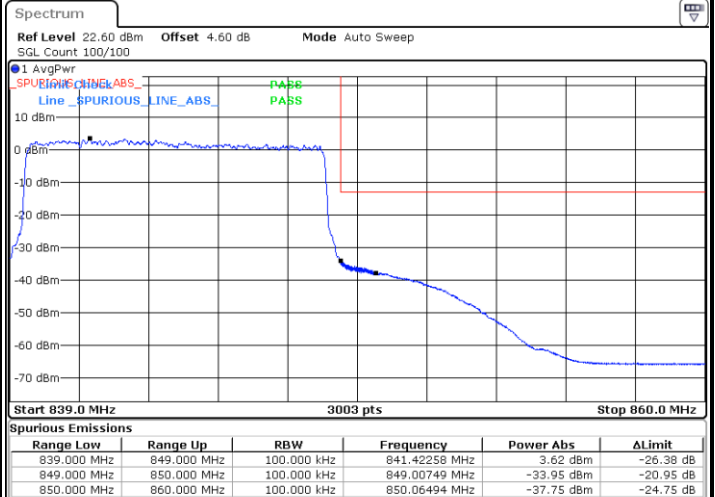
Date: 4 JUL 2020 16:45:03

Lowest Band Edge / Full RB



Date: 4 JUL 2020 16:36:50

Highest Band Edge / Full RB

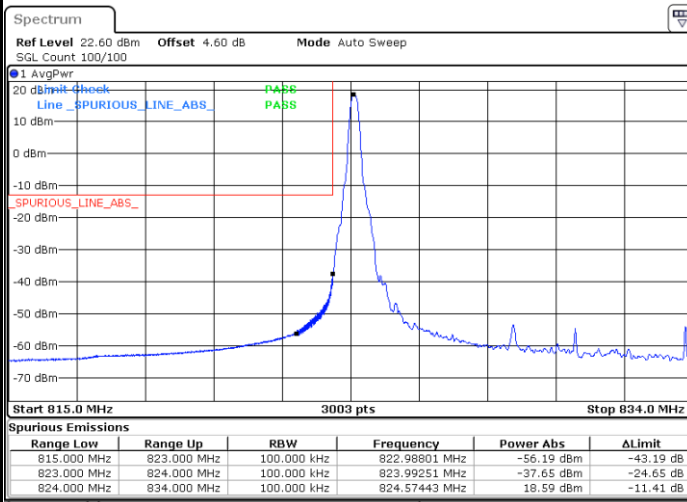


Date: 4 JUL 2020 16:48:18



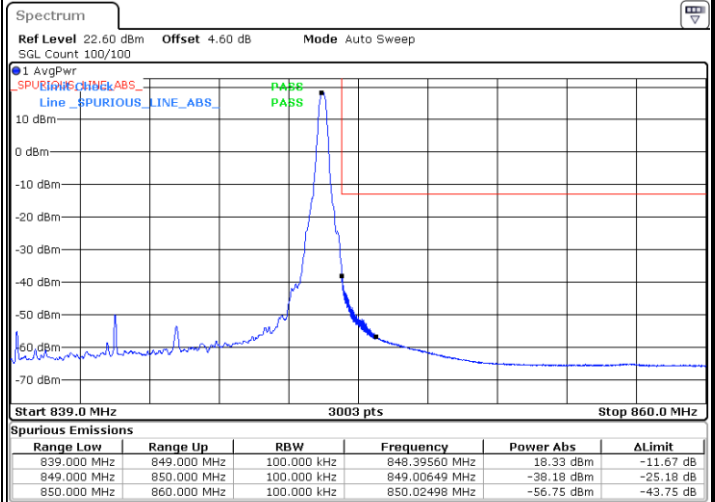
LTE Band 5 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



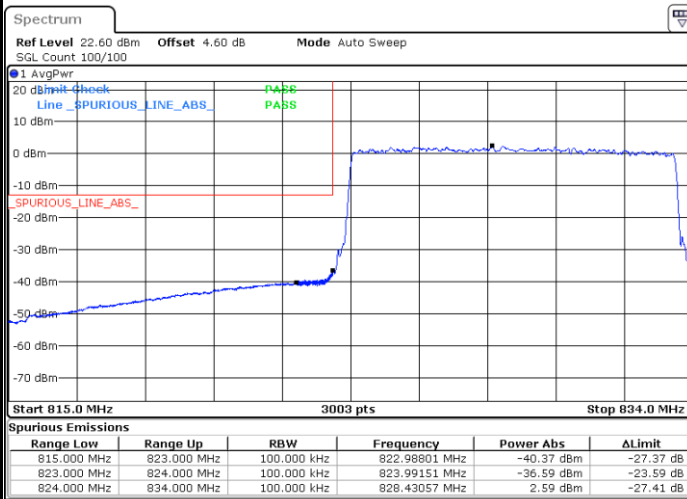
Date: 4 JUL 2020 17:57:36

Highest Band Edge / 1 RB



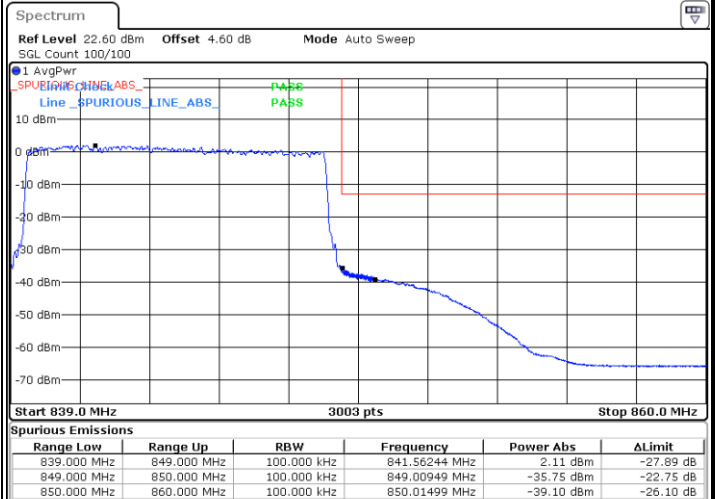
Date: 4 JUL 2020 18:03:20

Lowest Band Edge / Full RB



Date: 4 JUL 2020 17:55:59

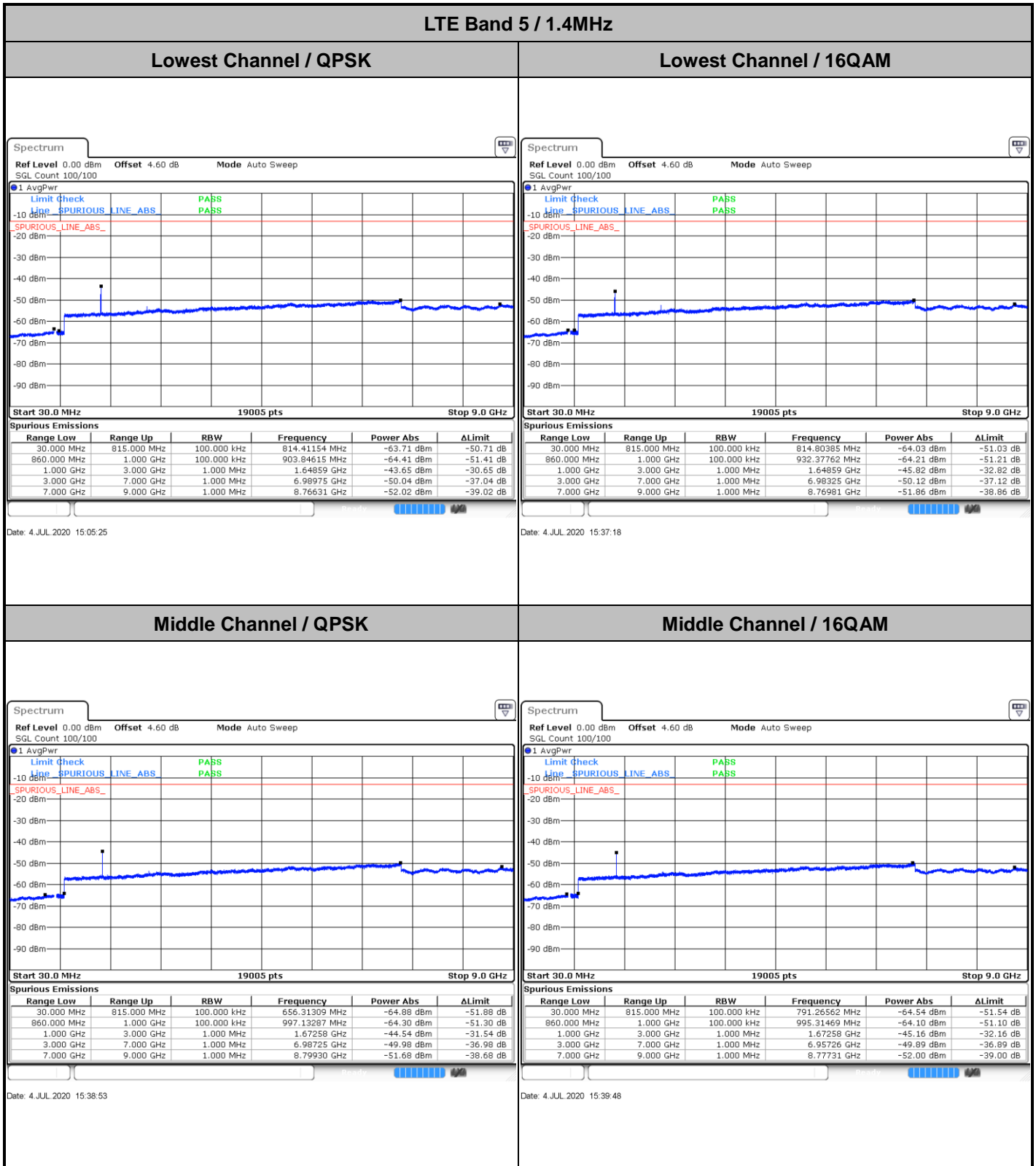
Highest Band Edge / Full RB



Date: 4 JUL 2020 18:01:43



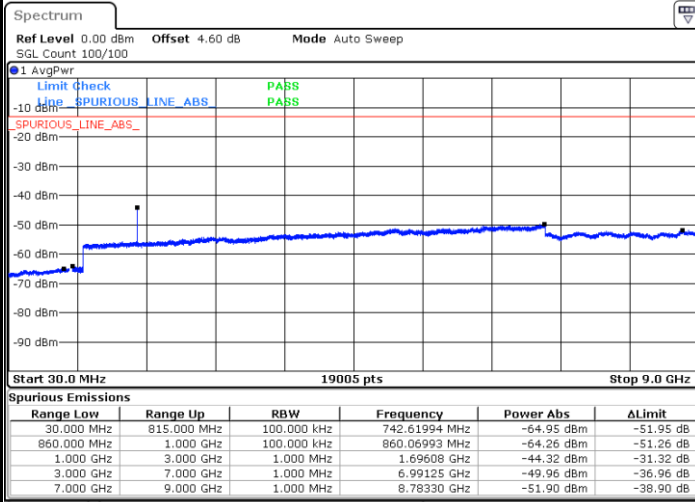
# Conducted Spurious Emission





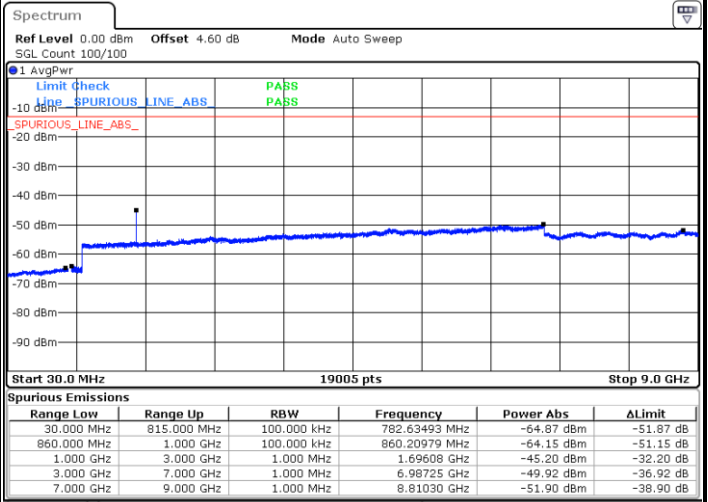
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 4 JUL 2020 15:47:52

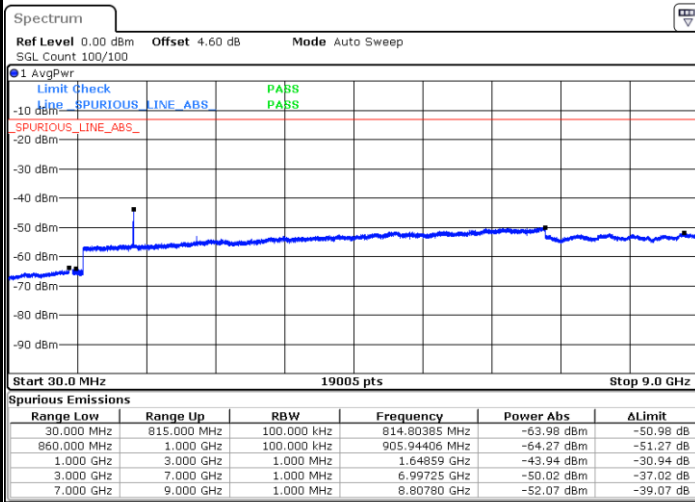
Highest Channel / 16QAM



Date: 4 JUL 2020 15:48:47

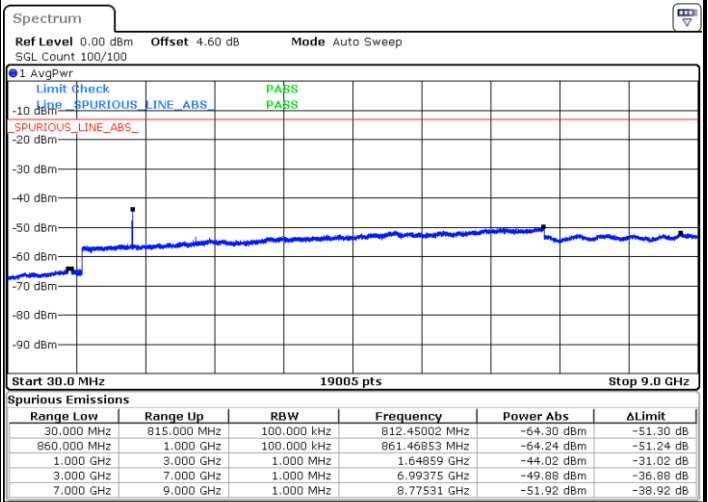
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 4 JUL 2020 15:56:51

Lowest Channel / 16QAM



Date: 4 JUL 2020 15:57:45

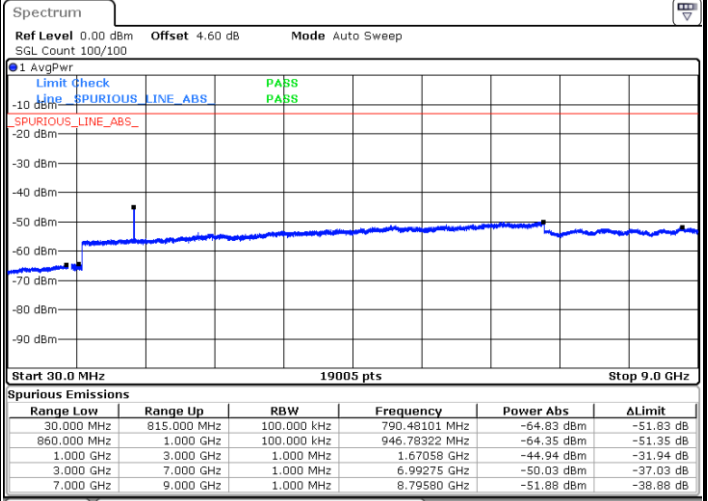
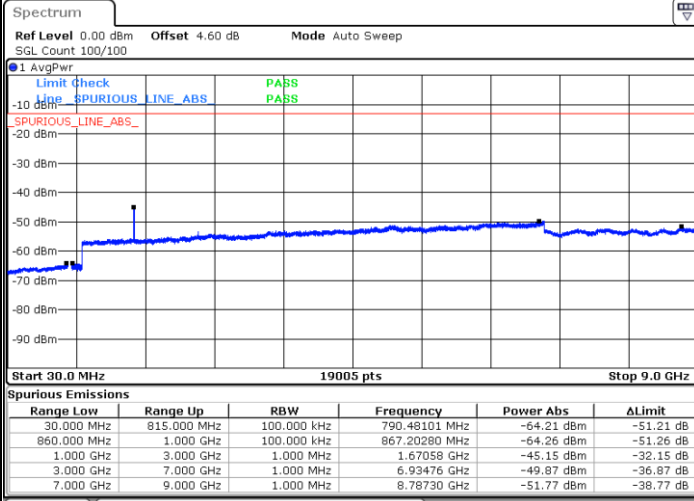




LTE Band 5 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

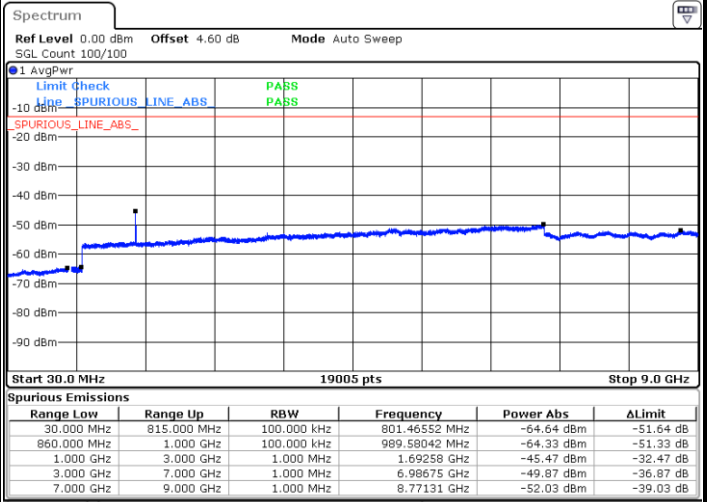
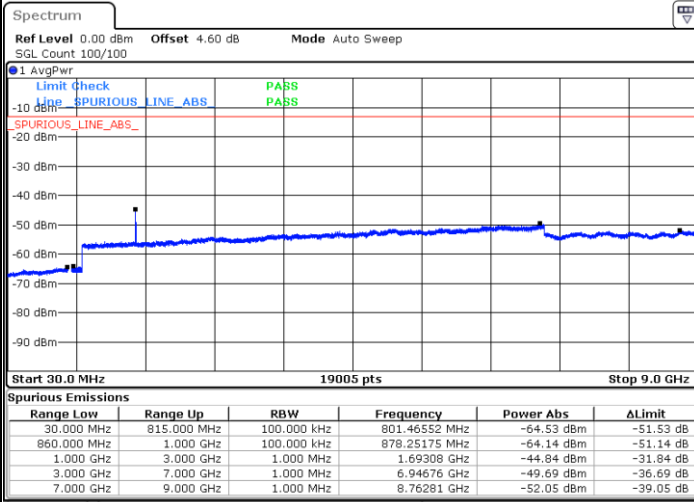


Date: 4 JUL 2020 15:59:20

Date: 4 JUL 2020 16:00:14

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 4 JUL 2020 16:08:18

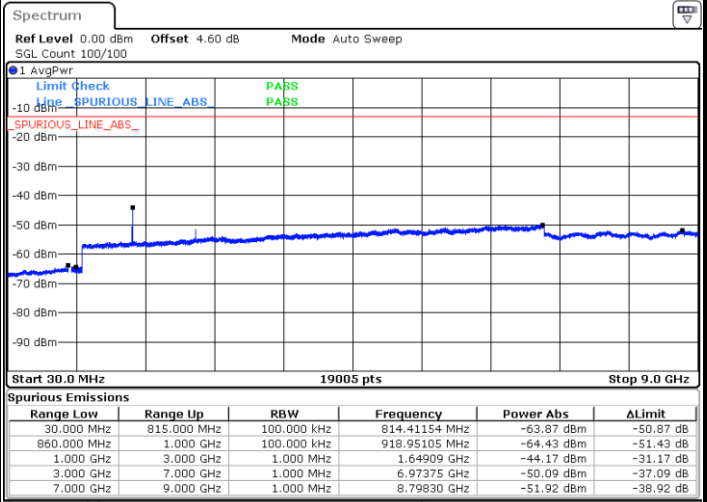
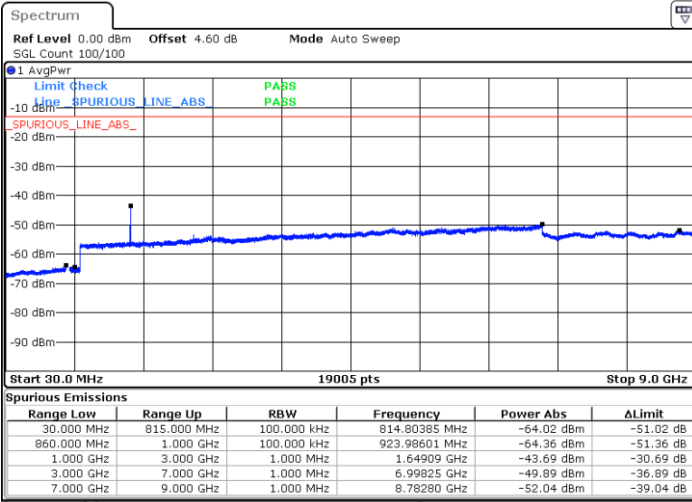
Date: 4 JUL 2020 16:09:13



LTE Band 5 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

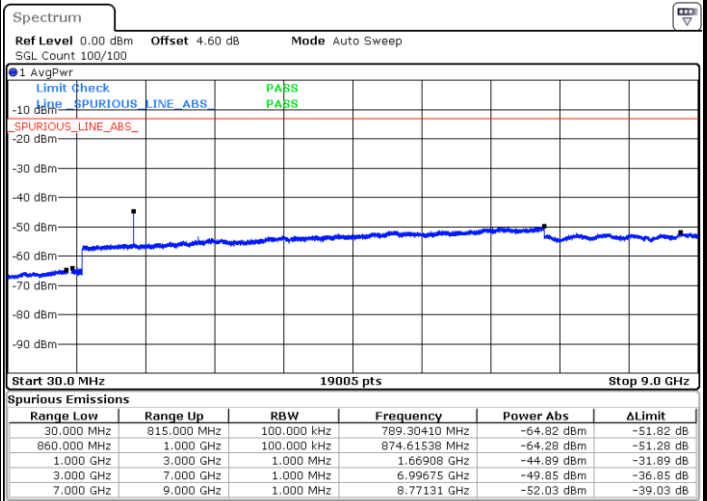
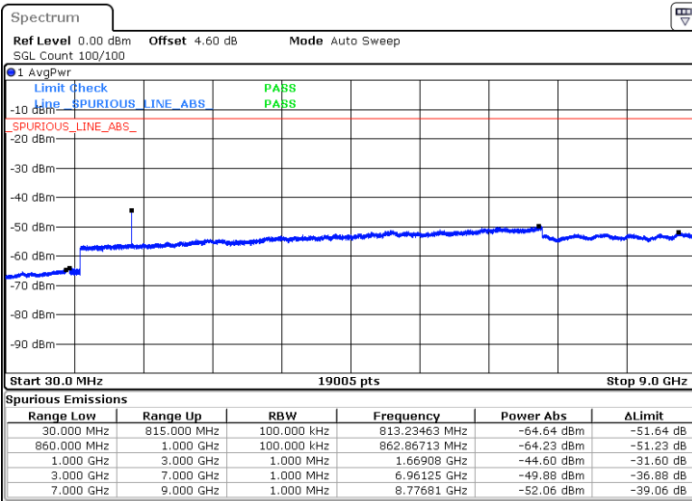


Date: 4 JUL 2020 16:17:17

Date: 4 JUL 2020 16:18:12

Middle Channel / QPSK

Middle Channel / 16QAM



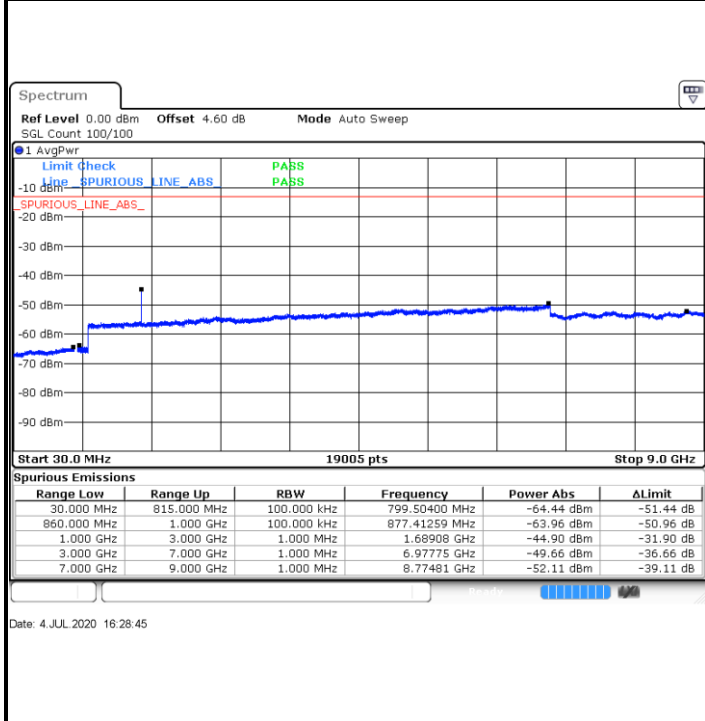
Date: 4 JUL 2020 16:19:46

Date: 4 JUL 2020 16:20:41

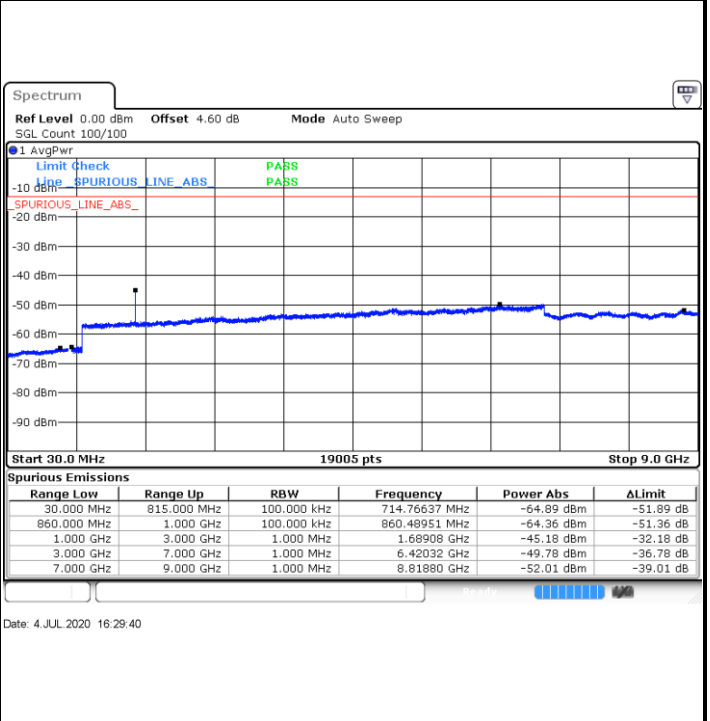


LTE Band 5 / 5MHz

Highest Channel / QPSK

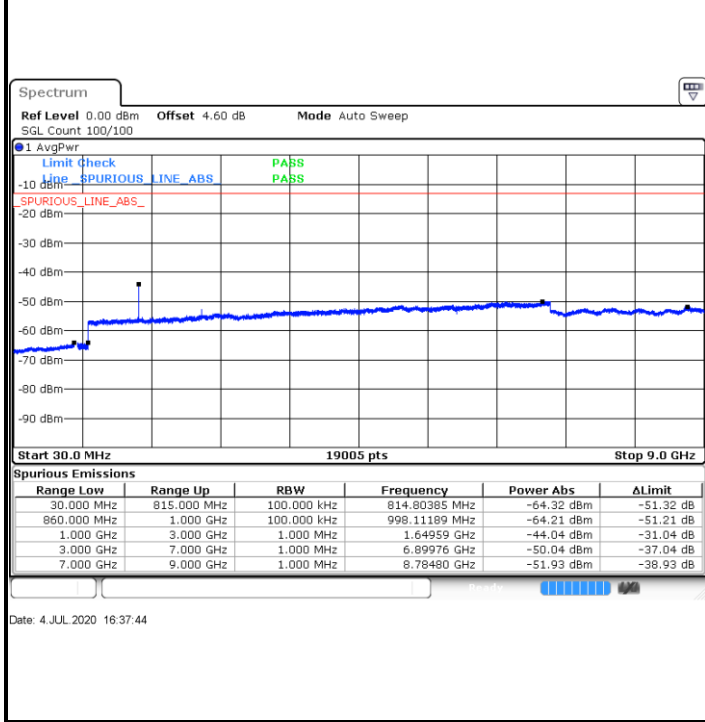


Highest Channel / 16QAM

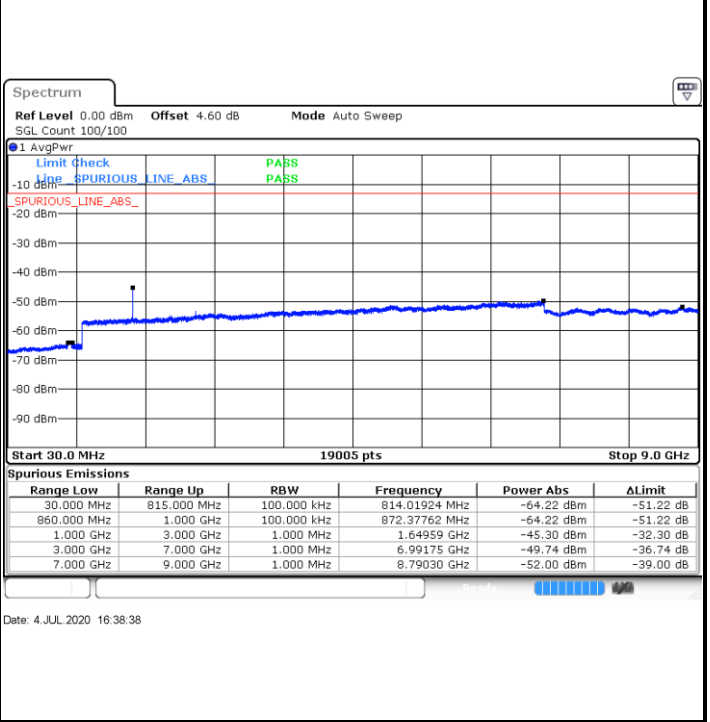


LTE Band 5 / 10MHz

Lowest Channel / QPSK



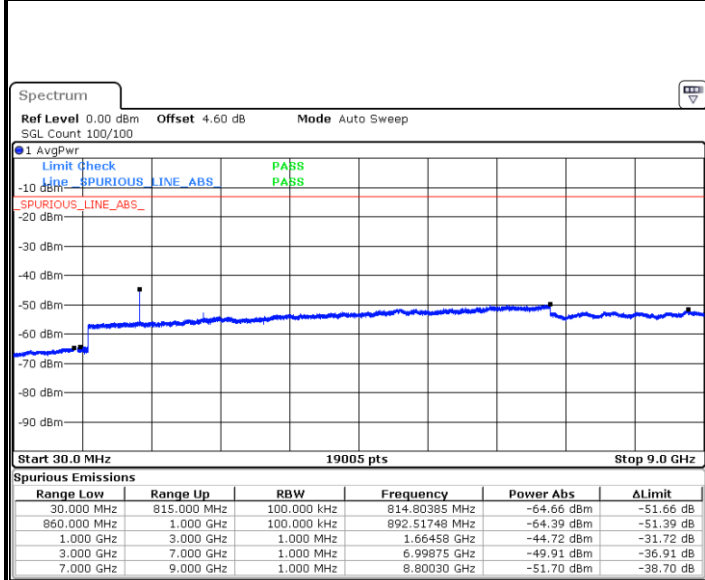
Lowest Channel / 16QAM





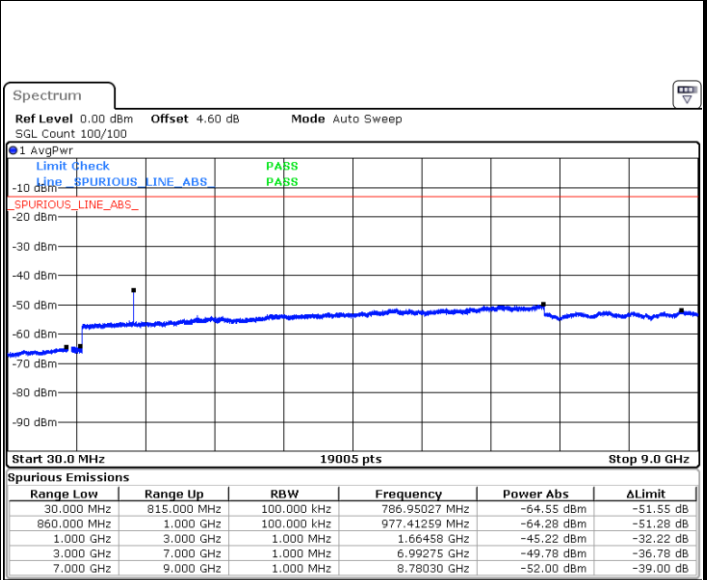
LTE Band 5 / 10MHz

Middle Channel / QPSK



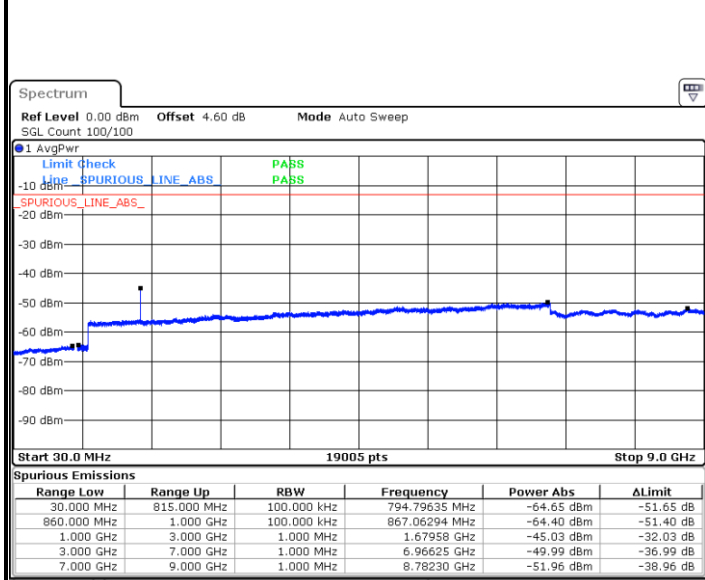
Date: 4 JUL 2020 16:40:13

Middle Channel / 16QAM



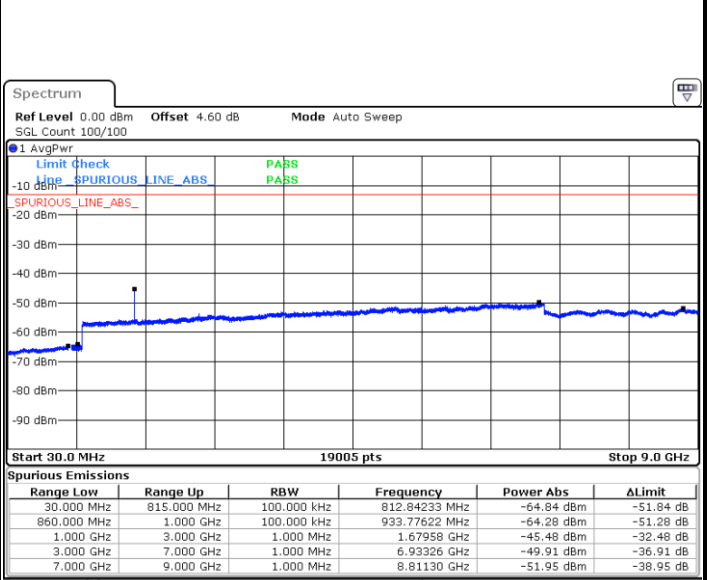
Date: 4 JUL 2020 16:41:08

Highest Channel / QPSK



Date: 4 JUL 2020 16:49:12

Highest Channel / 16QAM



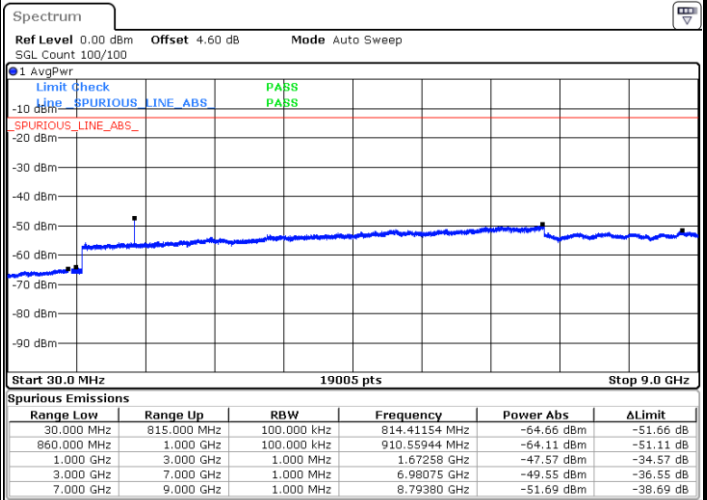
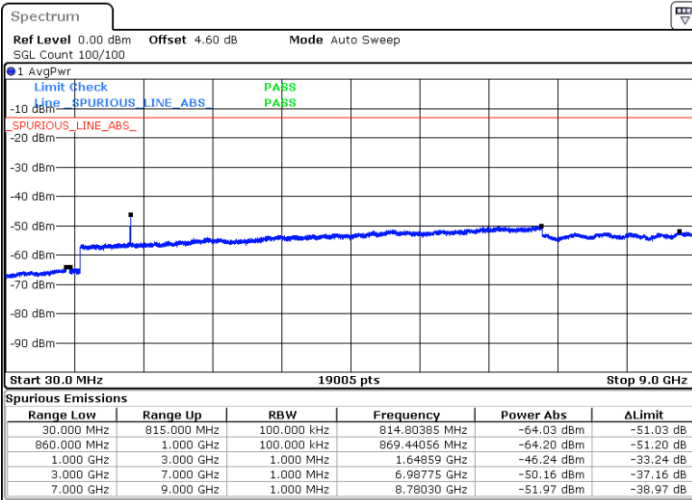
Date: 4 JUL 2020 16:50:07



LTE Band 5 / 1.4MHz

Lowest Channel / 64QAM

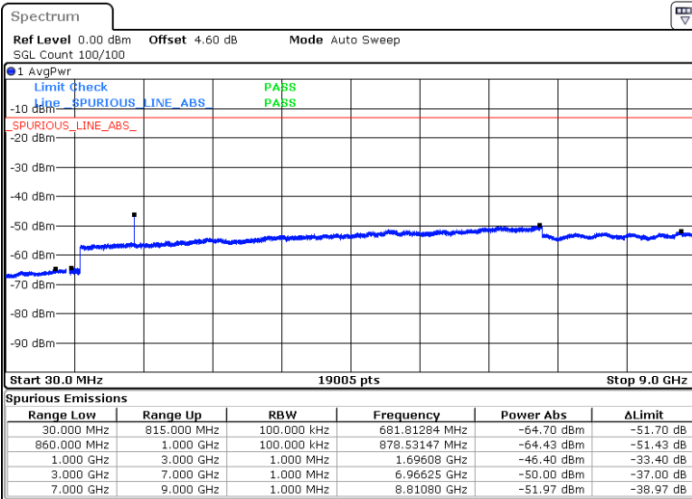
Middle Channel / 64QAM



Date: 4 JUL 2020 17:27:50

Date: 4 JUL 2020 17:28:44

Highest Channel / 64QAM

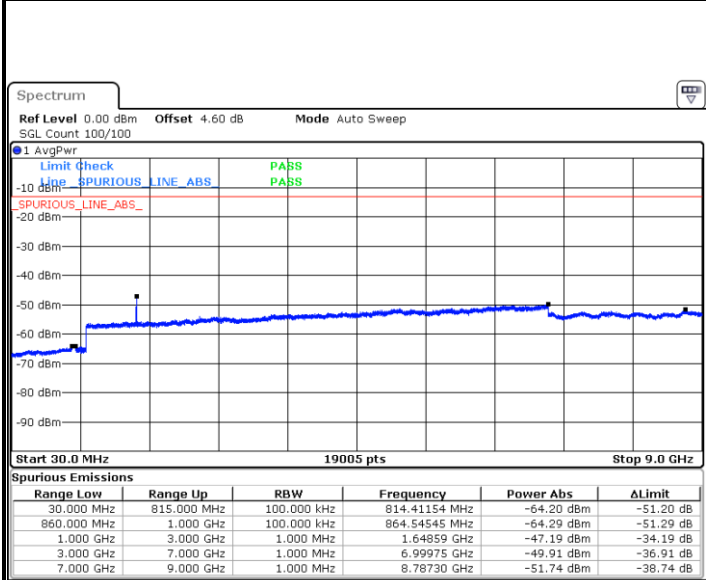


Date: 4 JUL 2020 17:33:34



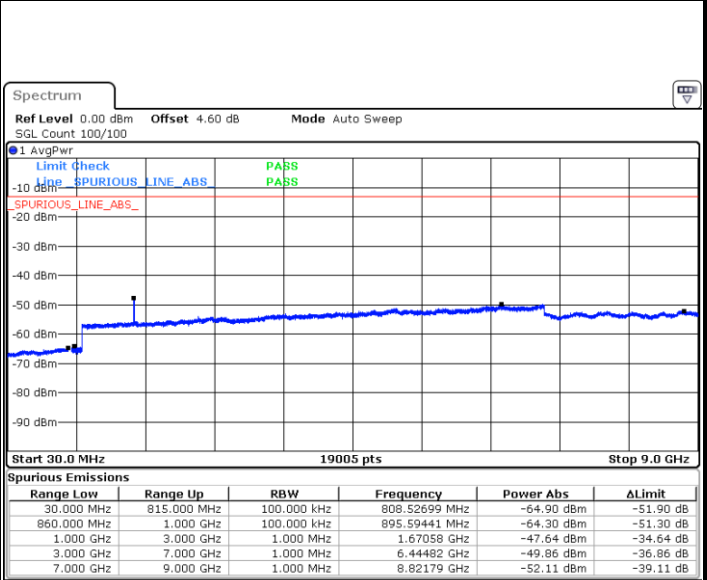
LTE Band 5 / 3MHz

Lowest Channel / 64QAM



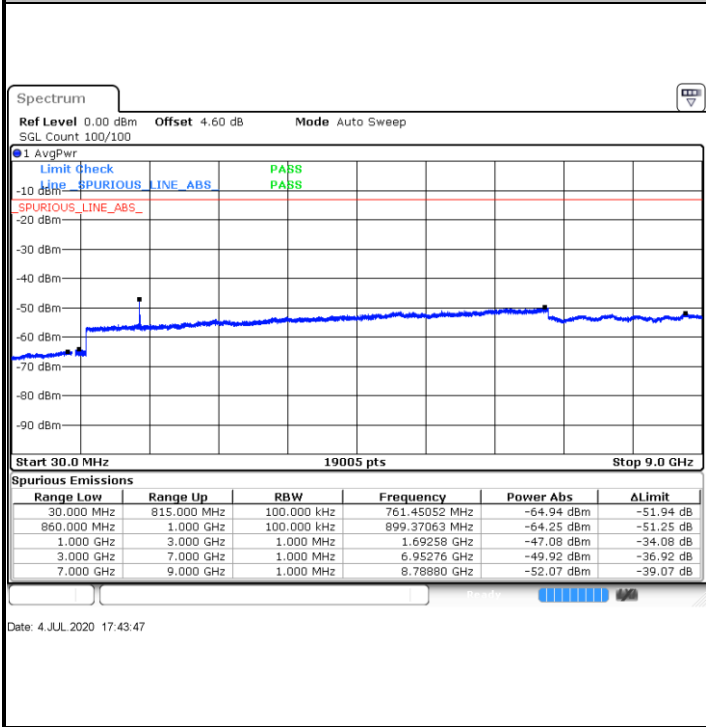
Date: 4 JUL 2020 17:38:03

Middle Channel / 64QAM



Date: 4 JUL 2020 17:38:58

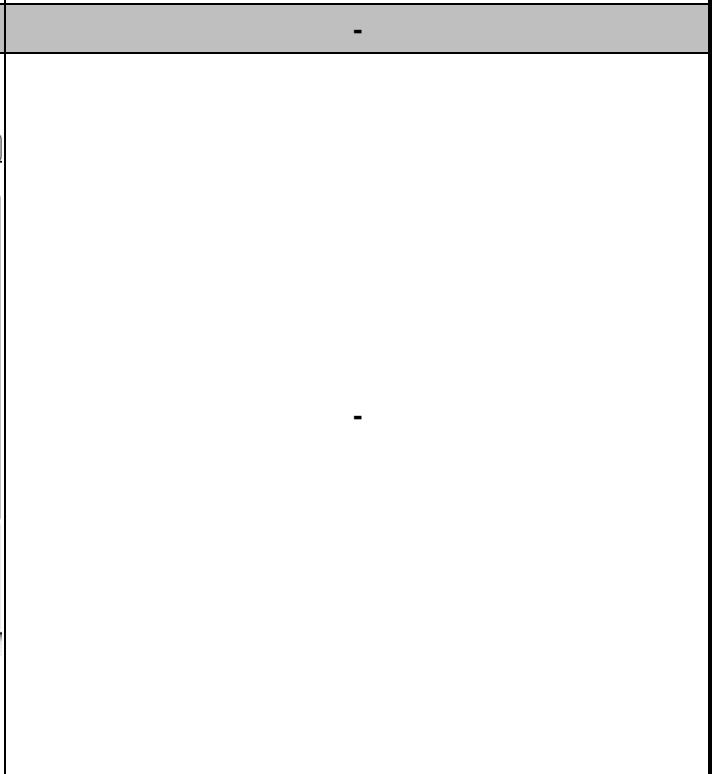
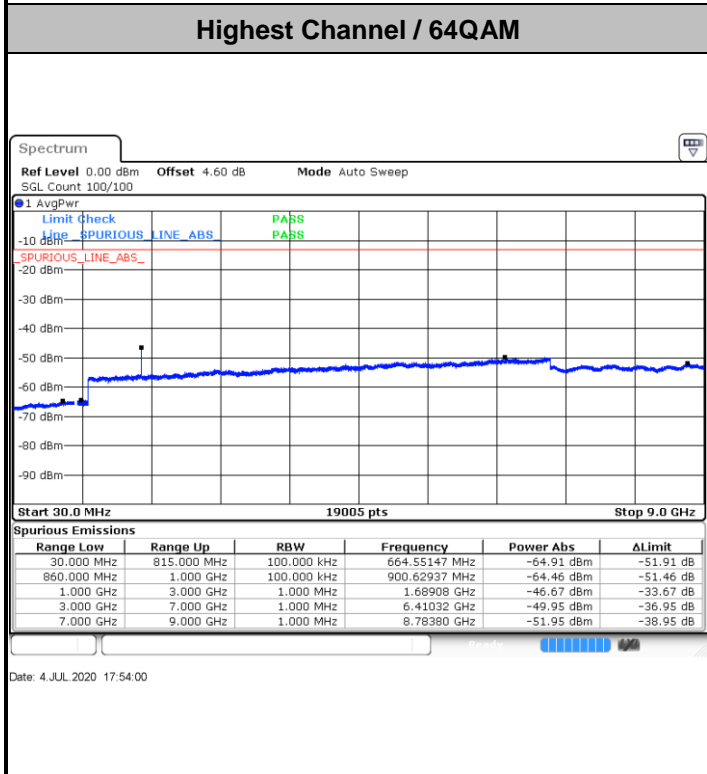
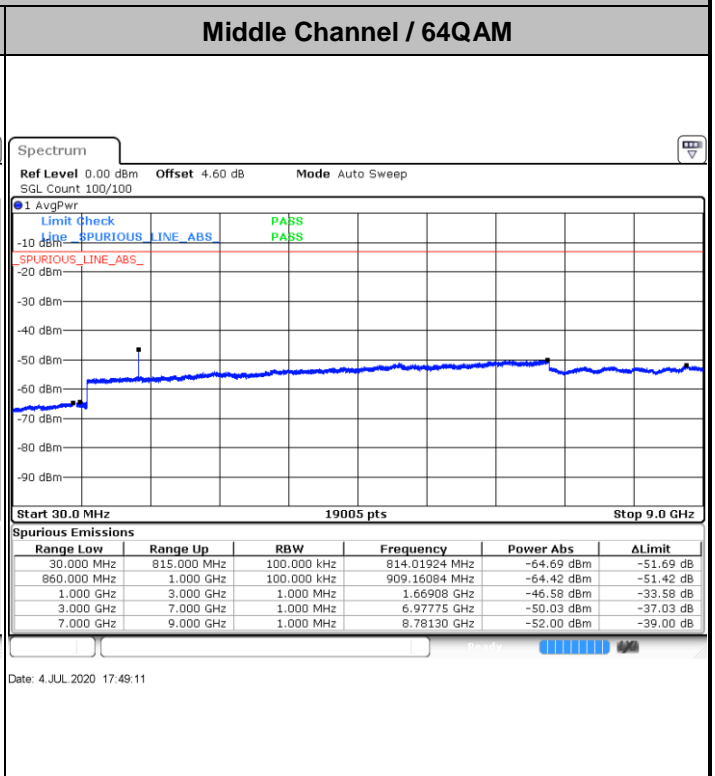
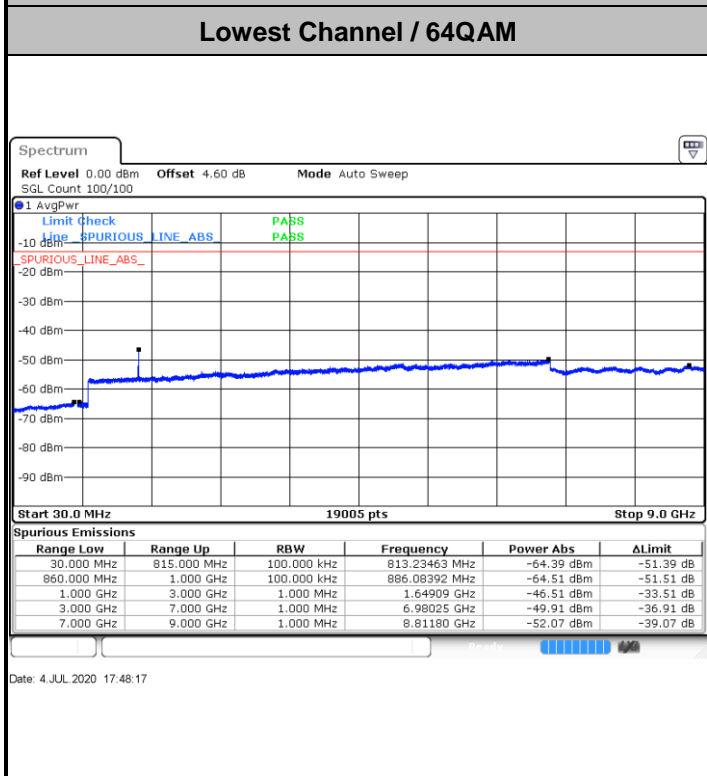
Highest Channel / 64QAM



Date: 4 JUL 2020 17:43:47



**LTE Band 5 / 5MHz**

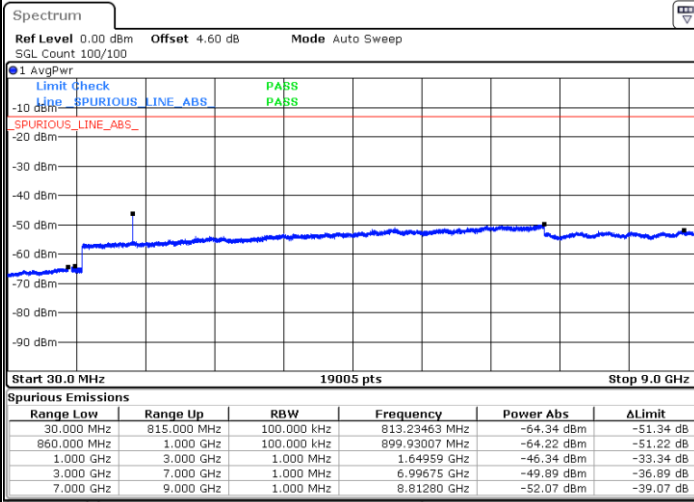




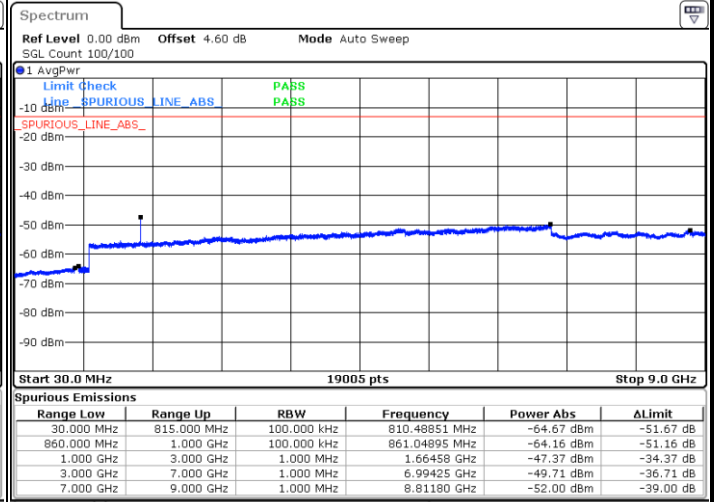
LTE Band 5 / 10MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM



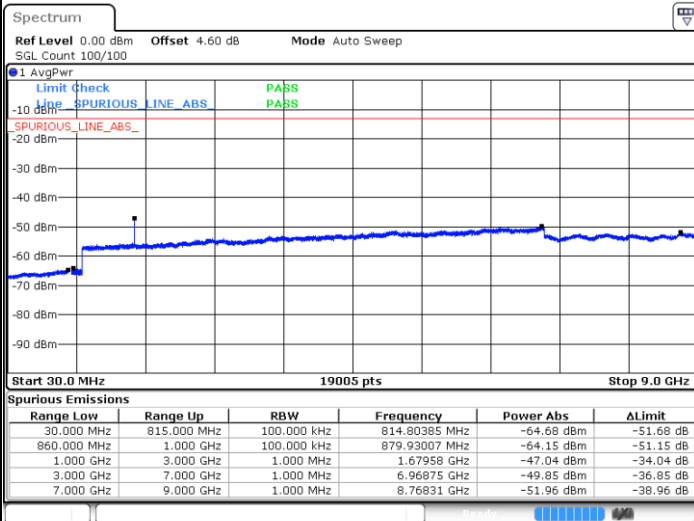
Date: 4 JUL 2020 17:58:30



Date: 4 JUL 2020 17:59:24

Highest Channel / 64QAM

-



Date: 4 JUL 2020 18:04:14





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	0.0033	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0028	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0015	
-20	Normal Voltage	0.0023	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0015	
20	Normal Voltage	0.0005	
20	Battery End Point	0.0004	

Note:

- 5. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.2V.
- 6. Note: The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 7

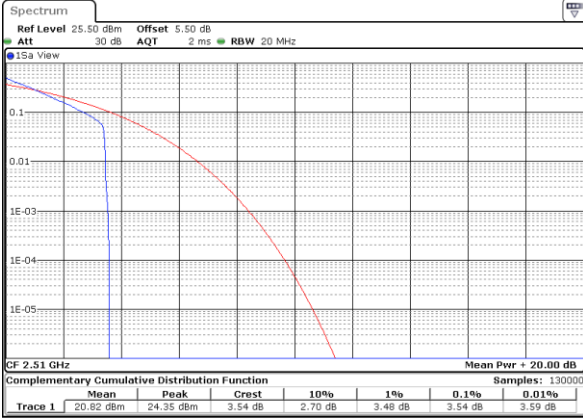
## Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.54	4.87	5.13	5.94	<b>PASS</b>
Middle CH	3.51	4.96	4.96	5.94	
Highest CH	3.59	5.01	5.33	5.94	
Mode	LTE Band 7 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.23	6.38	-	-	<b>PASS</b>
Middle CH	6.96	6.41	-	-	
Highest CH	6.75	6.43	-	-	



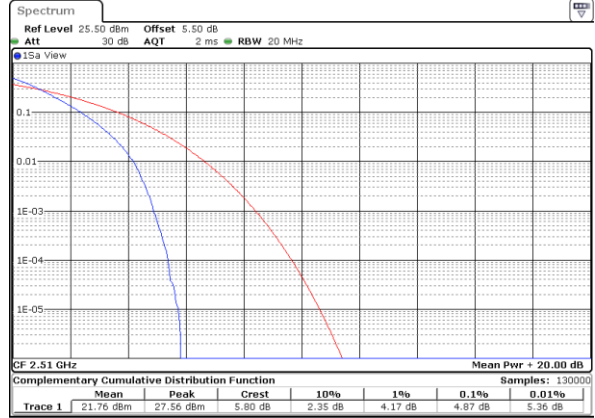
LTE Band 7 / 20MHz / QPSK

Lowest Channel / 1RB



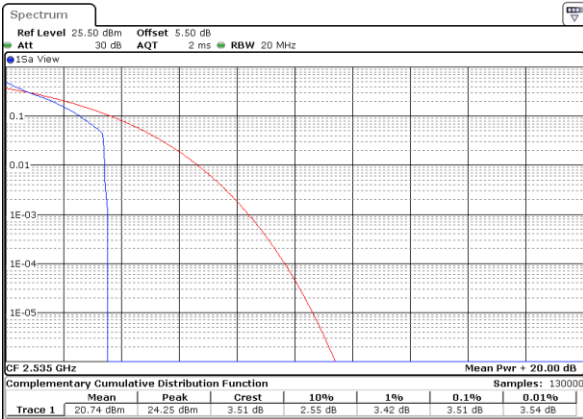
Date: 6.JUL.2020 05:02:30

Lowest Channel / Full RB



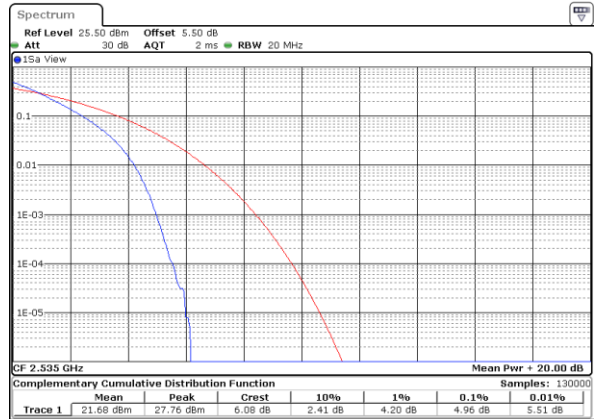
Date: 6.JUL.2020 05:02:39

Middle Channel / 1RB



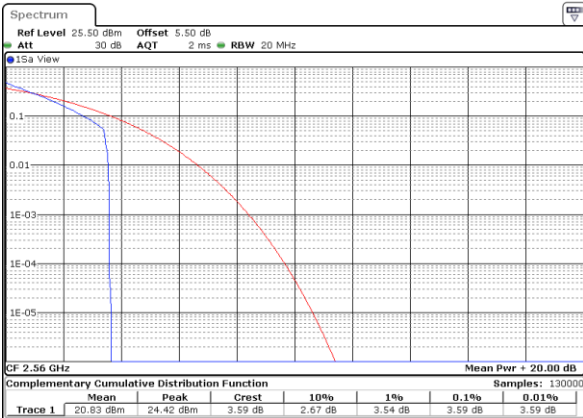
Date: 6.JUL.2020 05:03:15

Middle Channel / Full RB



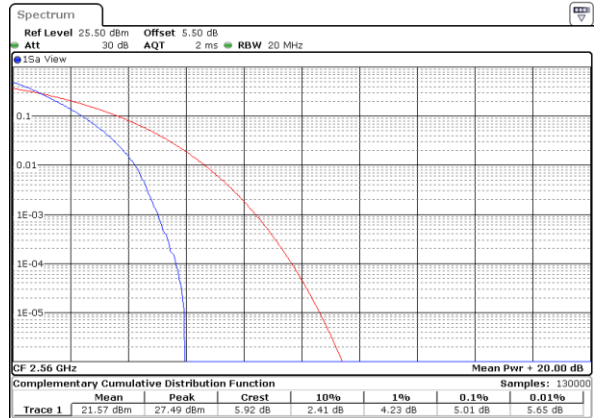
Date: 6.JUL.2020 05:03:05

Highest Channel / 1RB



Date: 6.JUL.2020 05:03:43

Highest Channel / Full RB

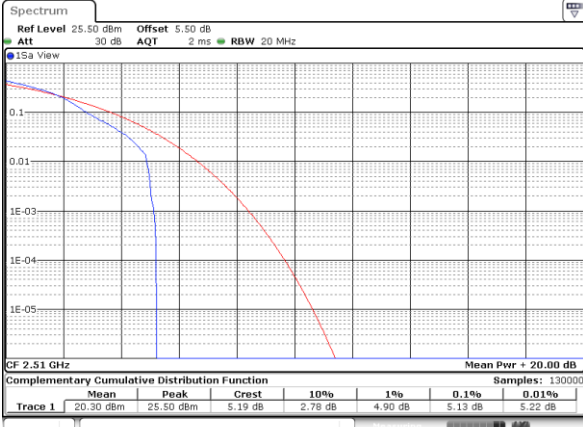


Date: 6.JUL.2020 05:03:52



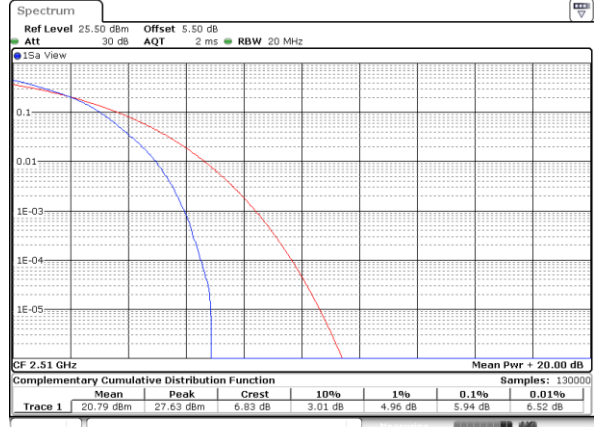
LTE Band 7 / 20MHz / 16QAM

Lowest Channel / 1RB



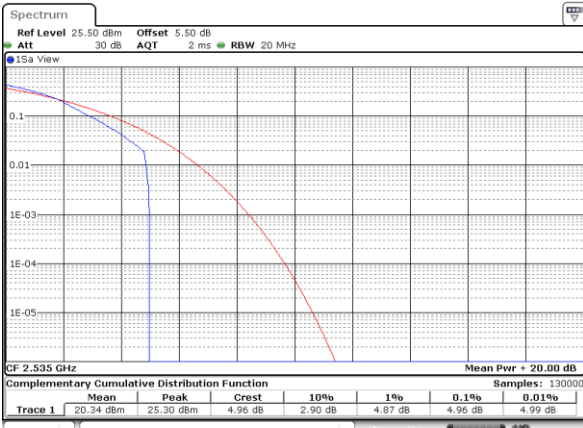
Date: 6.JUL.2020 05:02:21

Lowest Channel / Full RB



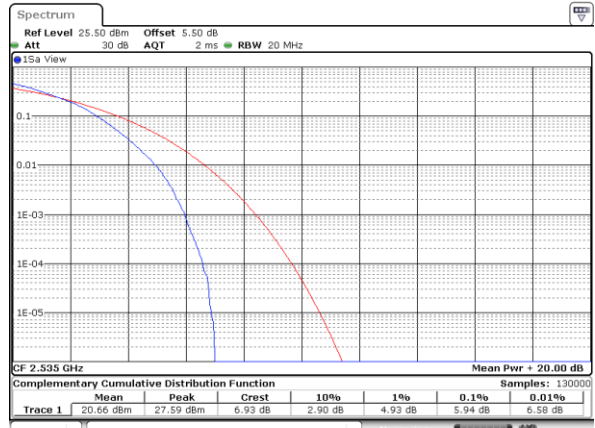
Date: 6.JUL.2020 05:02:47

Middle Channel / 1RB



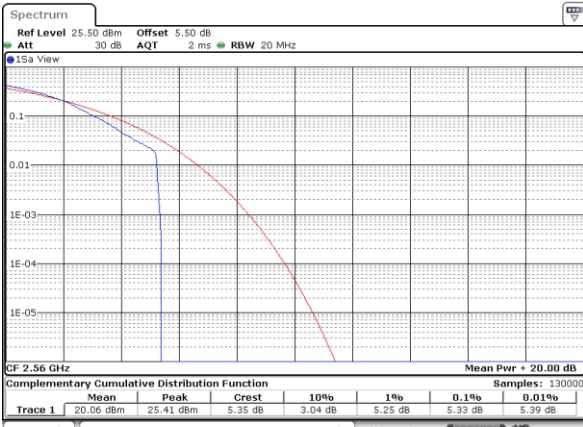
Date: 6.JUL.2020 05:03:24

Middle Channel / Full RB



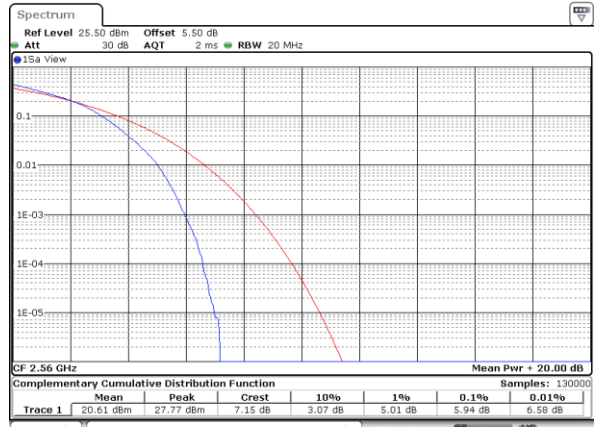
Date: 6.JUL.2020 05:02:56

Highest Channel / 1RB



Date: 6.JUL.2020 05:03:34

Highest Channel / Full RB

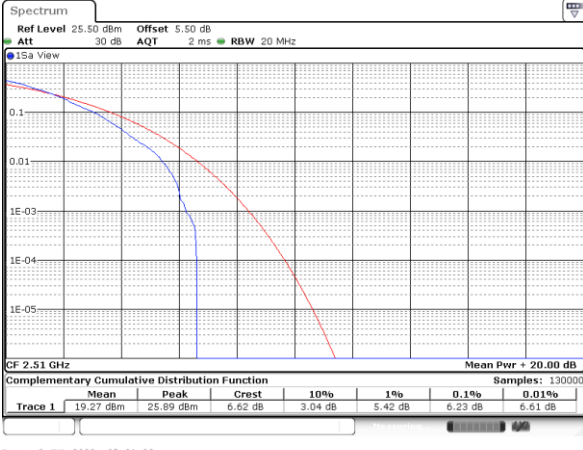


Date: 6.JUL.2020 05:04:01



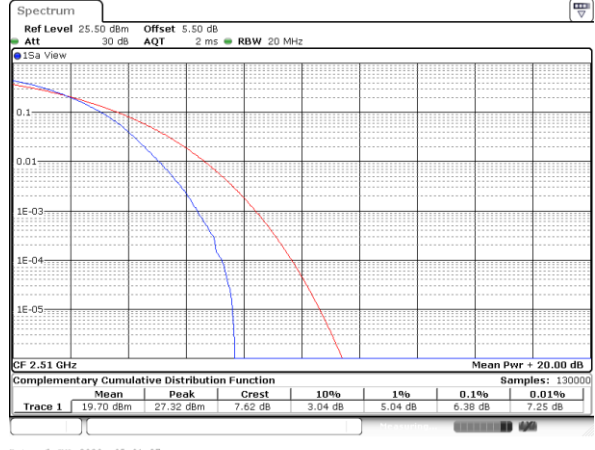
LTE Band 7 / 20MHz / 64QAM

Lowest Channel / 1RB



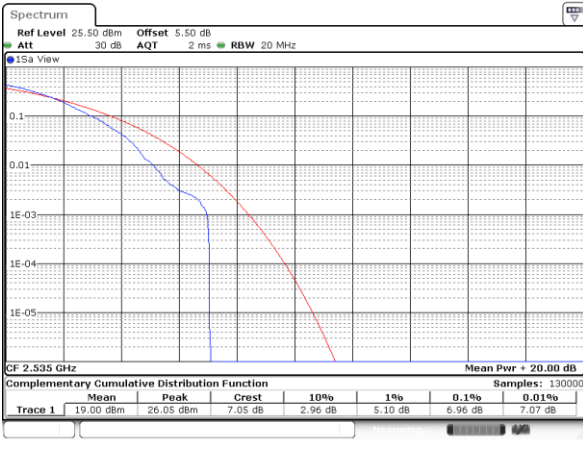
Date: 6.JUL.2020 05:01:28

Lowest Channel / Full RB



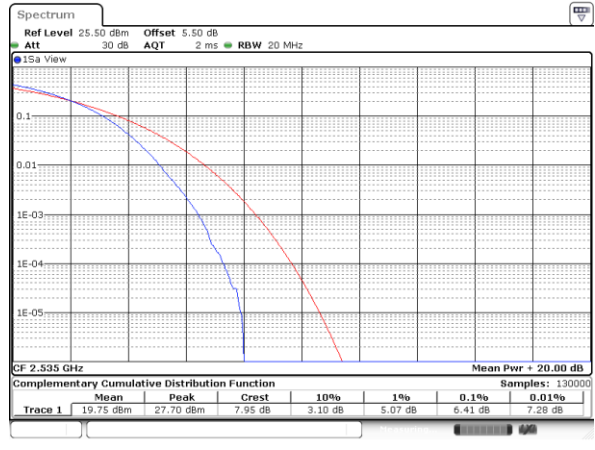
Date: 6.JUL.2020 05:01:37

Middle Channel / 1RB



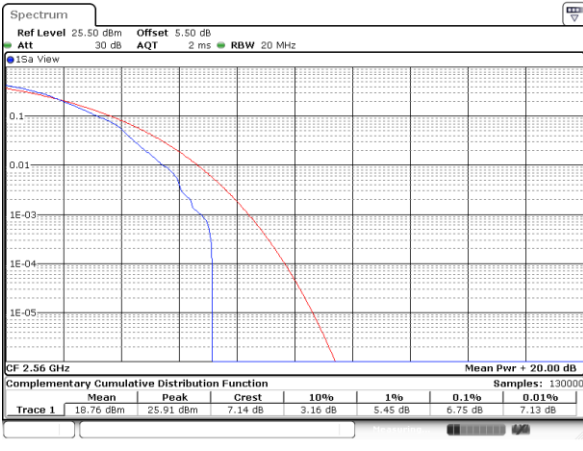
Date: 6.JUL.2020 05:01:54

Middle Channel / Full RB



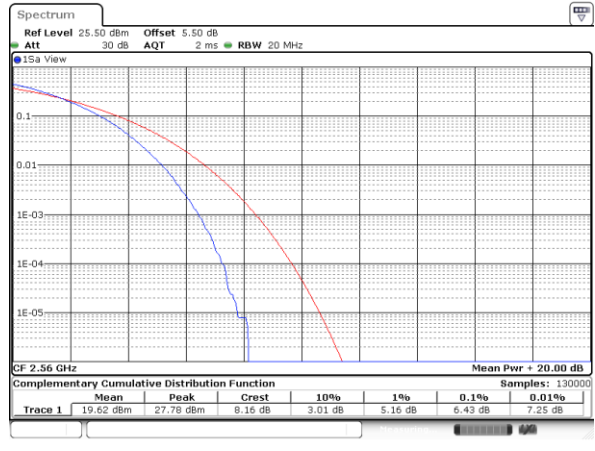
Date: 6.JUL.2020 05:01:45

Highest Channel / 1RB



Date: 6.JUL.2020 05:06:07

Highest Channel / Full RB



Date: 6.JUL.2020 05:02:12



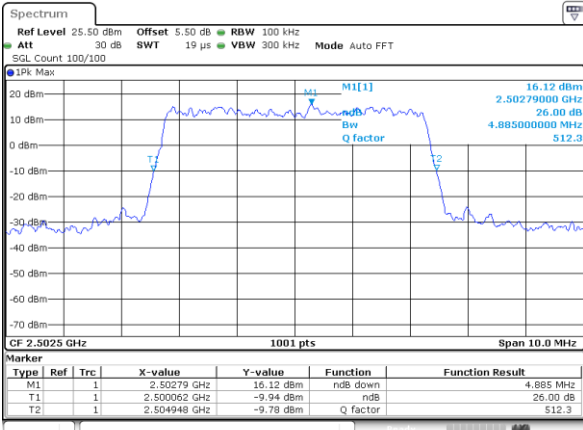
26dB Bandwidth

Mode	LTE Band 7 : 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	4.92	9.79	9.83	14.36	14.39	20.26	20.22
Middle CH	-	-	-	-	4.91	4.85	9.73	9.69	14.48	14.63	20.14	20.30
Highest CH	-	-	-	-	4.95	4.89	9.65	9.63	14.27	14.51	20.14	19.98
Mode	LTE Band 7 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.86	-	9.71	-	14.51	-	19.98	-
Middle CH	-	-	-	-	4.88	-	9.75	-	14.39	-	20.22	-
Highest CH	-	-	-	-	4.96	-	9.81	-	14.21	-	20.18	-



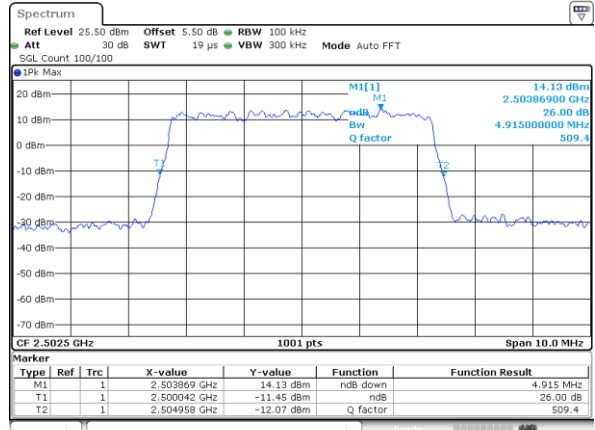
LTE Band 7

Lowest Channel / 5MHz / QPSK



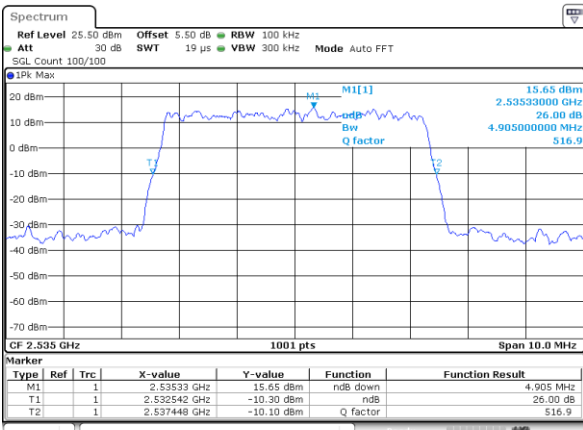
Date: 6 JUL 2020 03:19:56

Lowest Channel / 5MHz / 16QAM



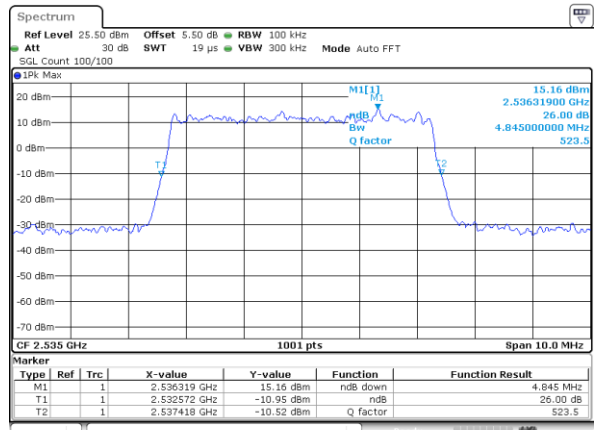
Date: 6 JUL 2020 03:20:16

Middle Channel / 5MHz / QPSK



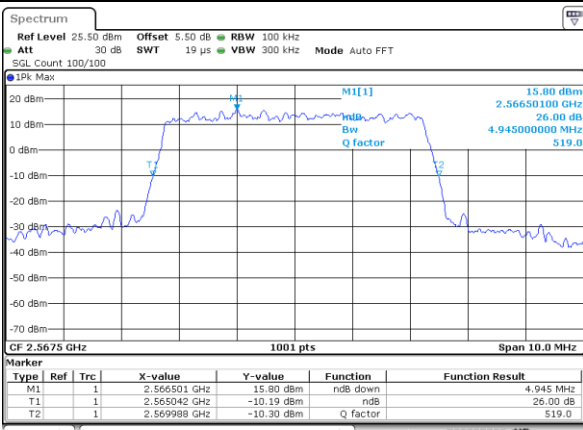
Date: 6 JUL 2020 03:20:57

Middle Channel / 5MHz / 16QAM



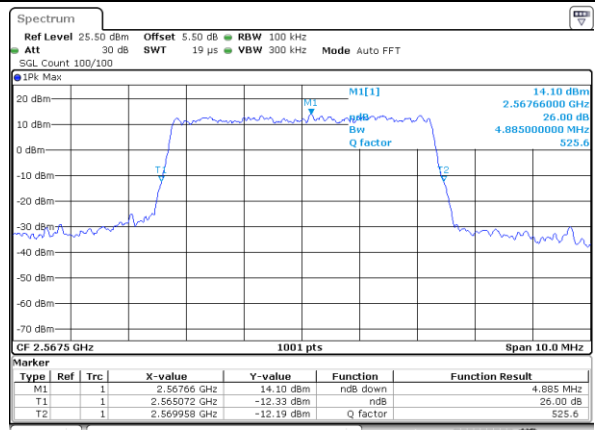
Date: 6 JUL 2020 03:20:37

Highest Channel / 5MHz / QPSK



Date: 6 JUL 2020 03:21:17

Highest Channel / 5MHz / 16QAM

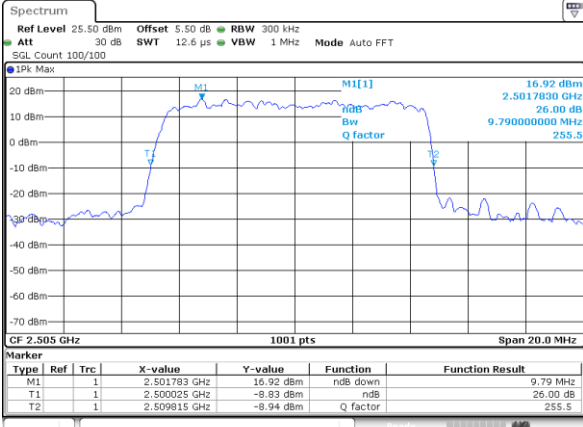


Date: 6 JUL 2020 03:21:37



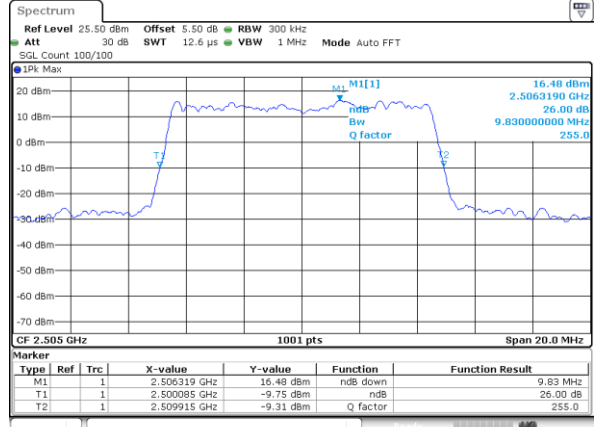
LTE Band 7

Lowest Channel / 10MHz / QPSK



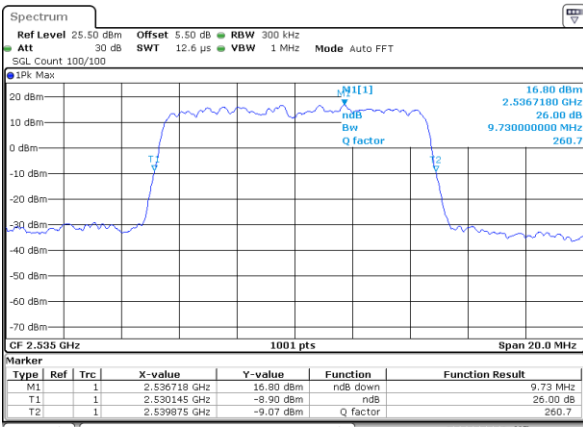
Date: 6.JUL.2020 03:36:34

Lowest Channel / 10MHz / 16QAM



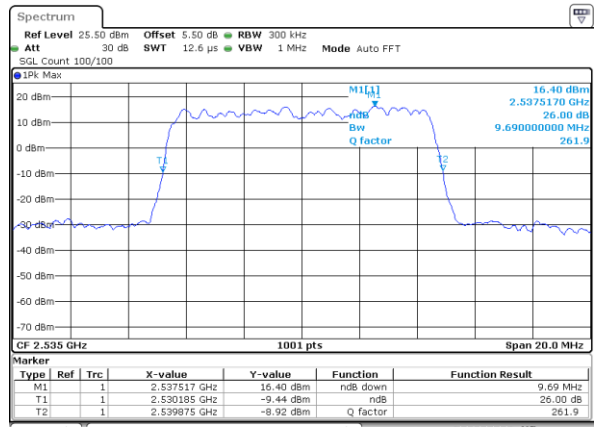
Date: 6.JUL.2020 03:36:54

Middle Channel / 10MHz / QPSK



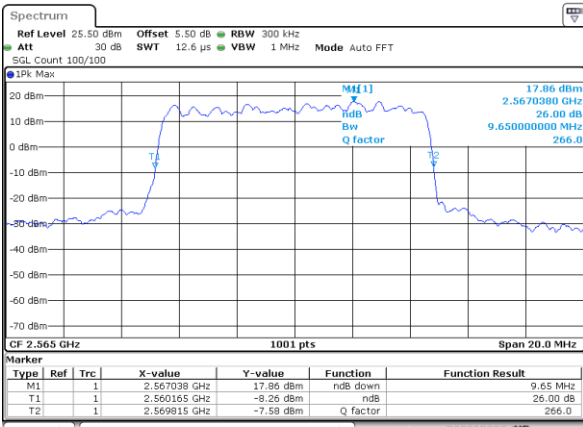
Date: 6.JUL.2020 03:37:34

Middle Channel / 10MHz / 16QAM



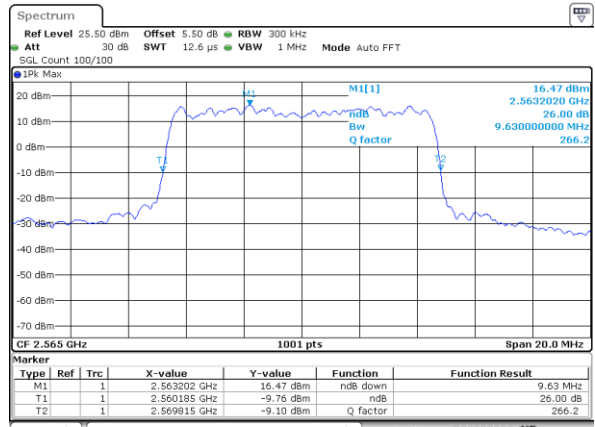
Date: 6.JUL.2020 03:37:14

Highest Channel / 10MHz / QPSK



Date: 6.JUL.2020 03:37:54

Highest Channel / 10MHz / 16QAM



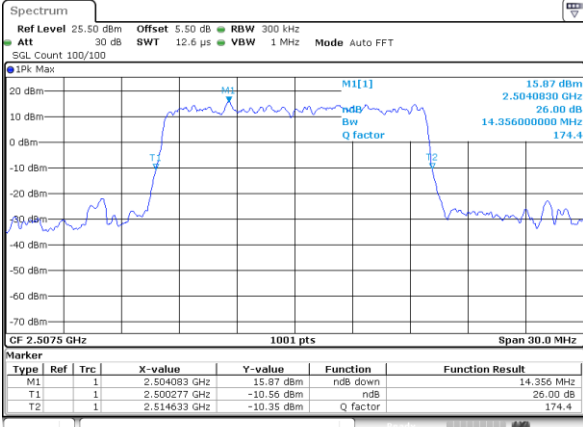
Date: 6.JUL.2020 03:38:14





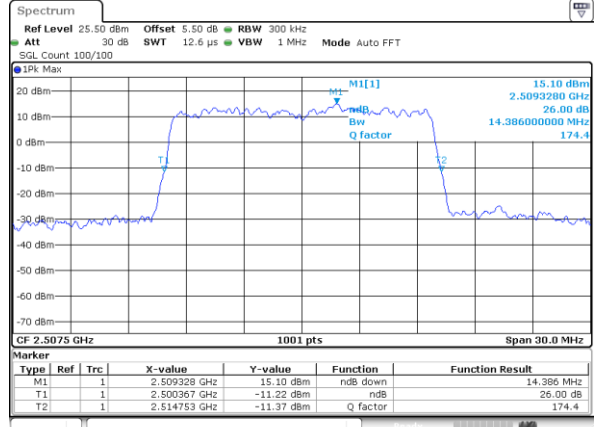
LTE Band 7

Lowest Channel / 15MHz / QPSK



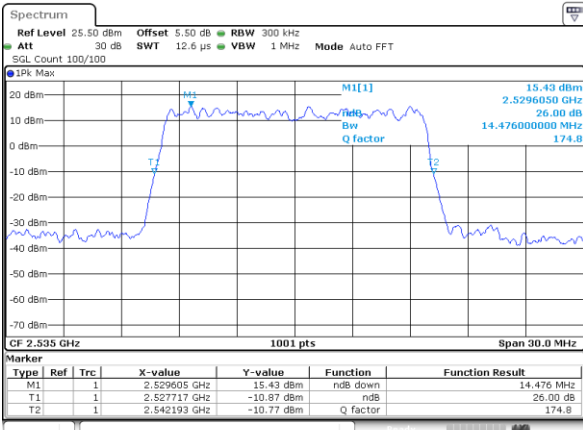
Date: 6.JUL.2020 03:53:26

Lowest Channel / 15MHz / 16QAM



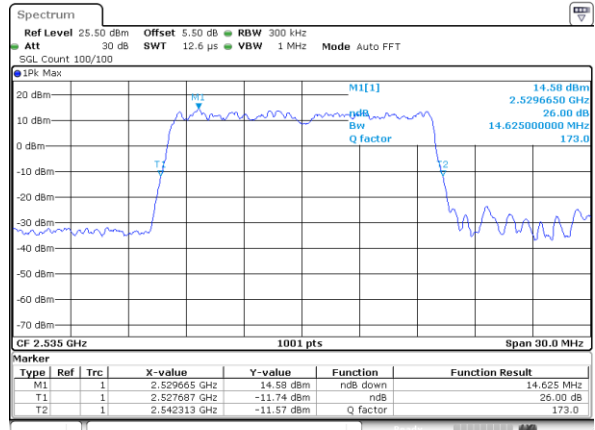
Date: 6.JUL.2020 03:53:05

Middle Channel / 15MHz / QPSK



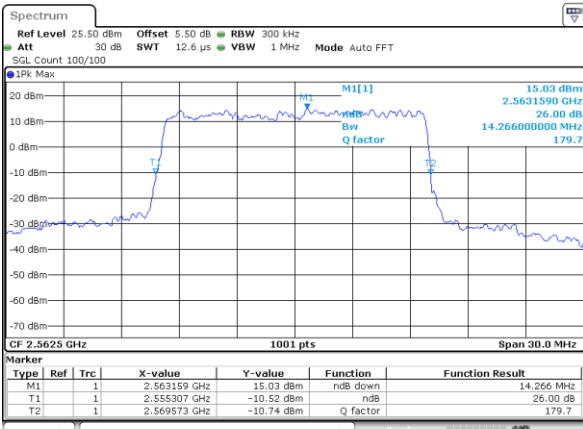
Date: 6.JUL.2020 03:53:46

Middle Channel / 15MHz / 16QAM



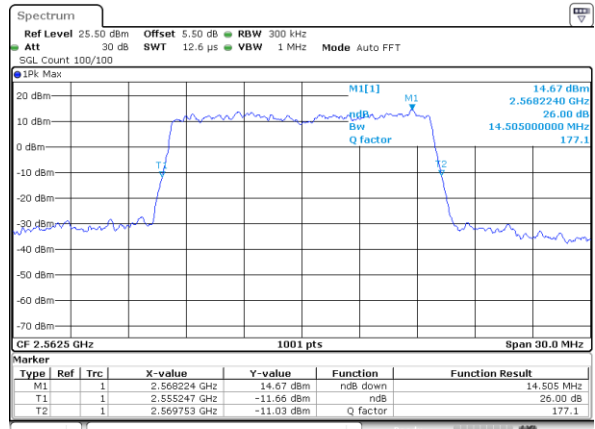
Date: 6.JUL.2020 03:54:06

Highest Channel / 15MHz / QPSK



Date: 6.JUL.2020 03:54:46

Highest Channel / 15MHz / 16QAM



Date: 6.JUL.2020 03:54:26