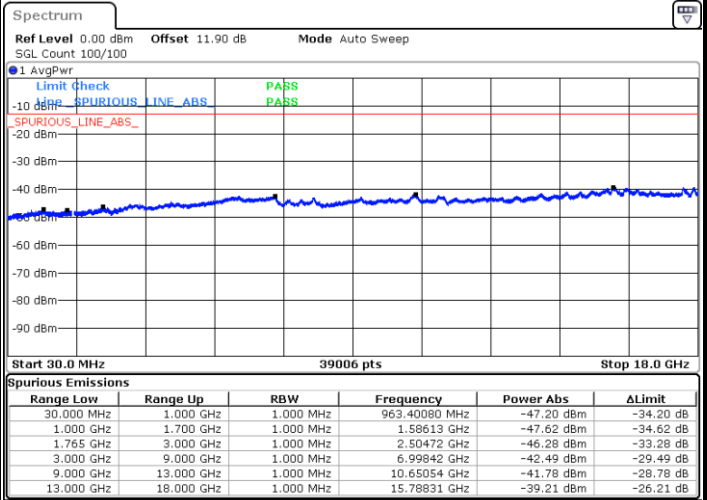
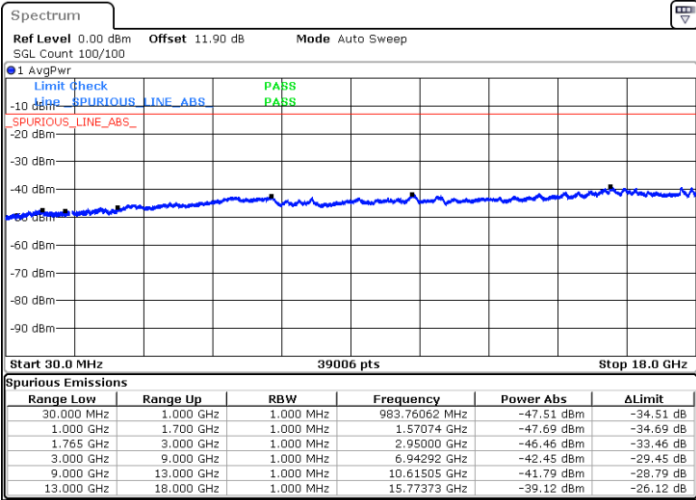




LTE Band 4 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

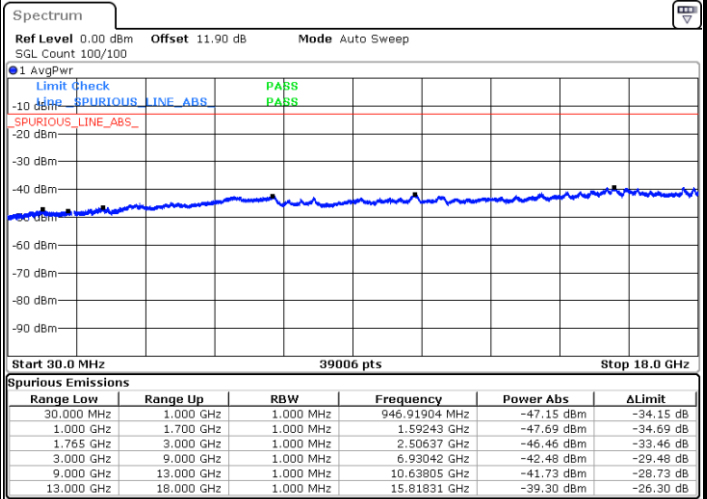
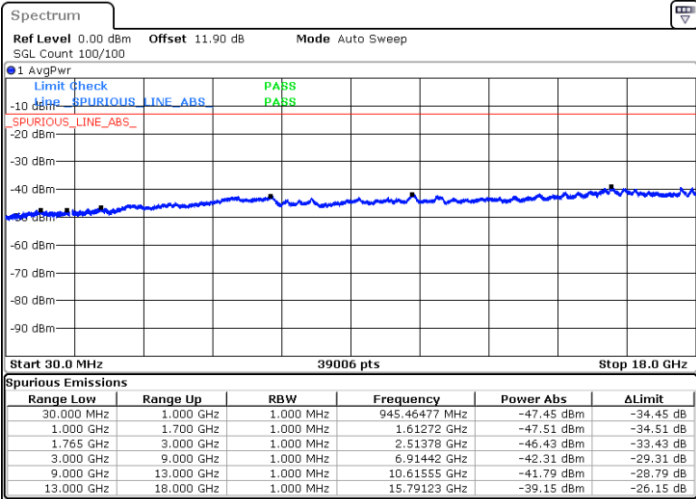


Date: 17.AUG.2020 14:53:53

Date: 17.AUG.2020 14:54:33

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 17.AUG.2020 14:58:20

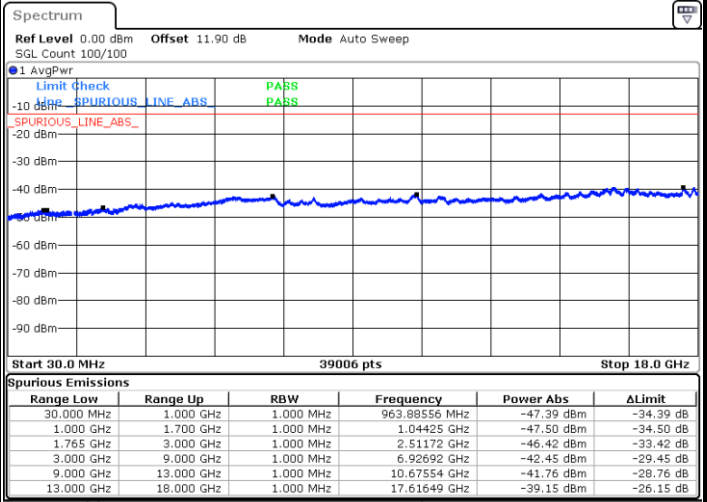
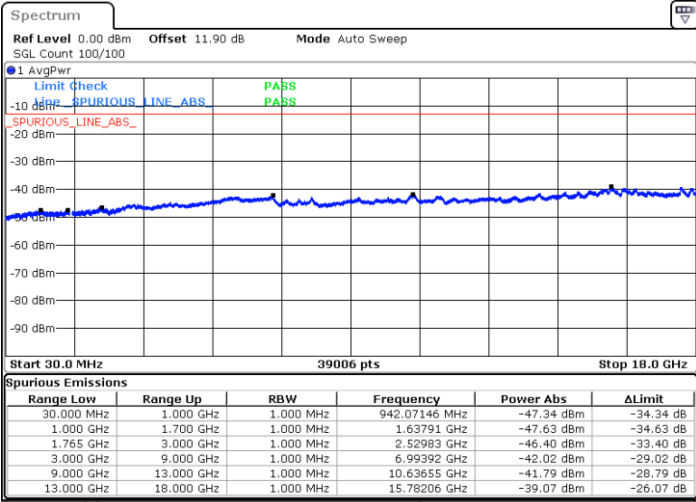
Date: 17.AUG.2020 14:59:00



LTE Band 4 / 1.4MHz

Lowest Channel / 64QAM

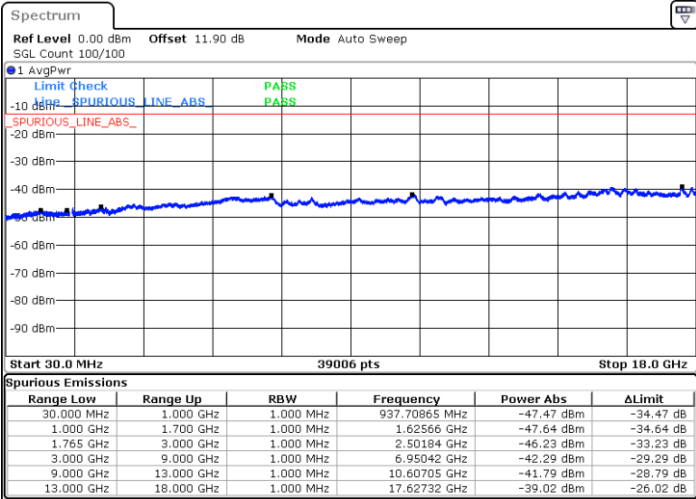
Middle Channel / 64QAM



Date: 17.AUG.2020 13:40:02

Date: 17.AUG.2020 13:41:04

Highest Channel / 64QAM



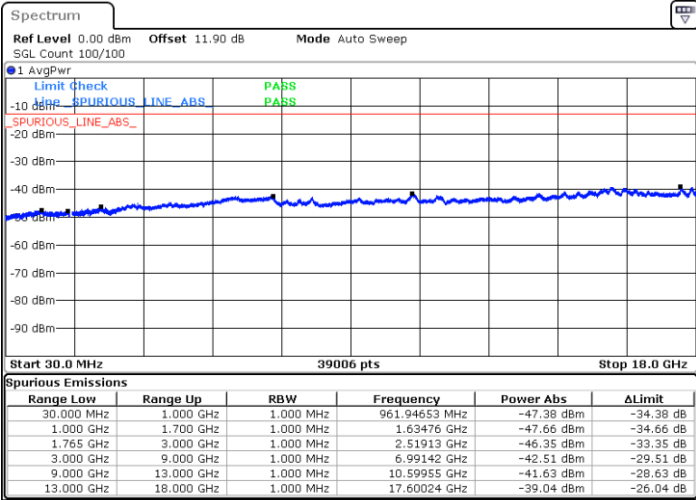
Date: 17.AUG.2020 13:42:08



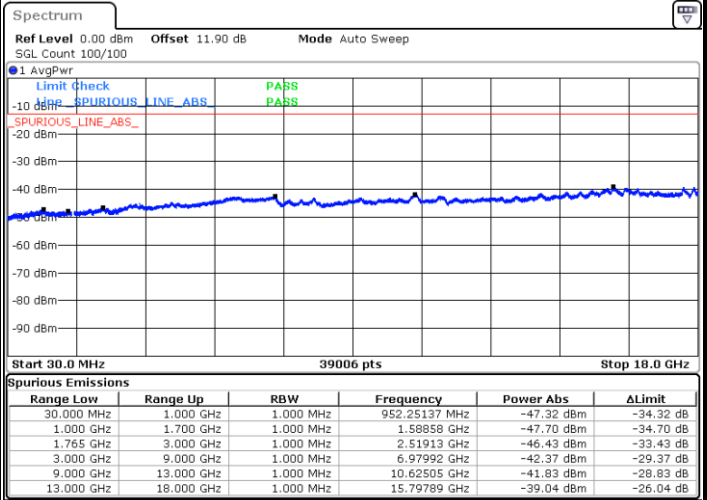
LTE Band 4 / 3MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

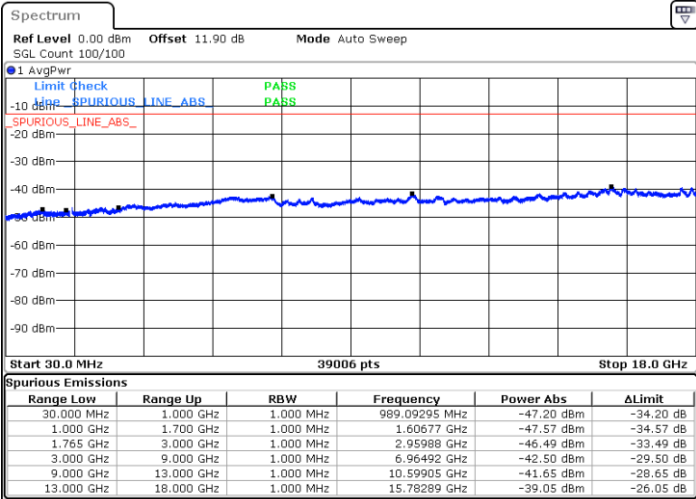


Date: 17.AUG.2020 13:55:20



Date: 17.AUG.2020 13:56:22

Highest Channel / 64QAM



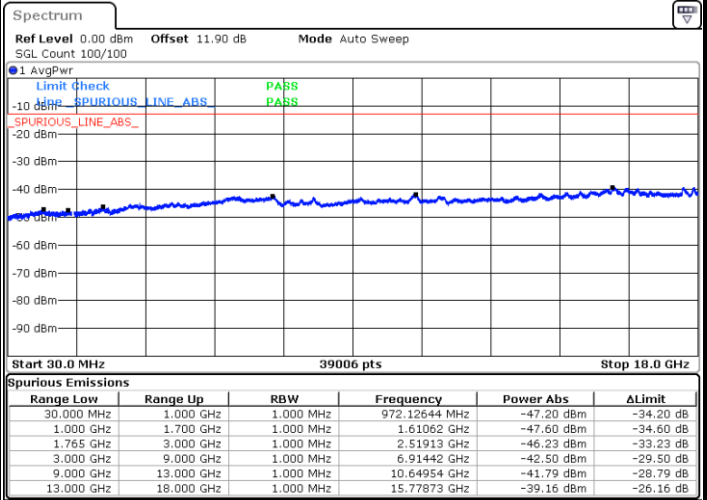
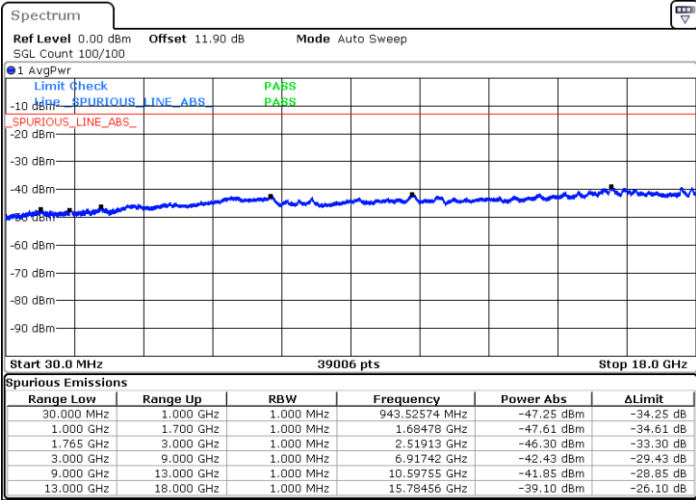
Date: 17.AUG.2020 13:58:35



LTE Band 4 / 5MHz

Lowest Channel / 64QAM

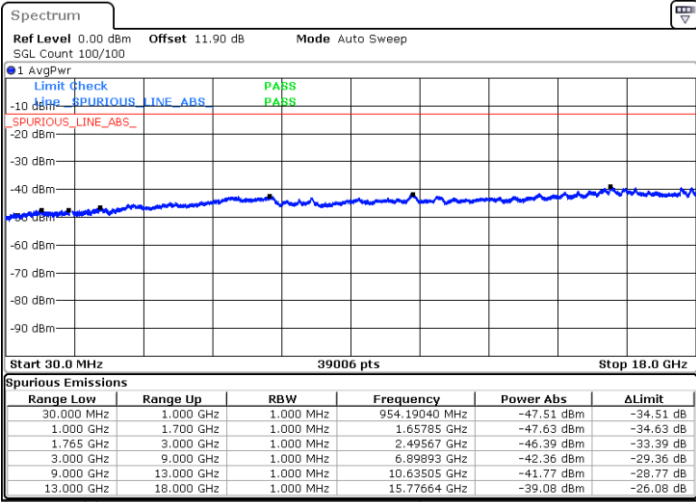
Middle Channel / 64QAM



Date: 17.AUG.2020 14:00:49

Date: 17.AUG.2020 14:01:51

Highest Channel / 64QAM



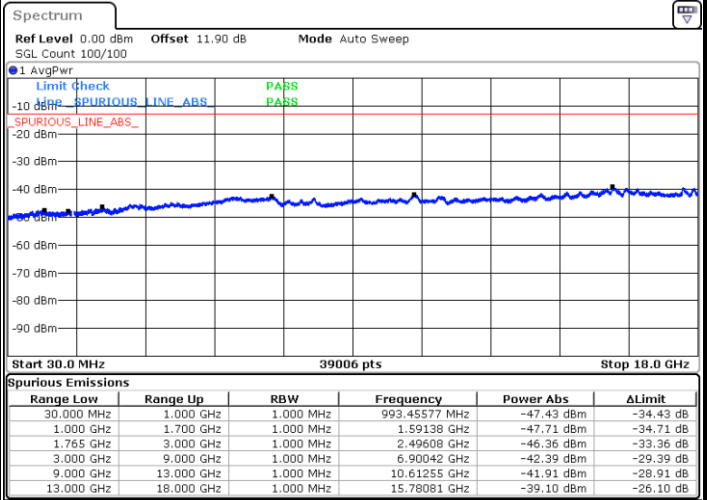
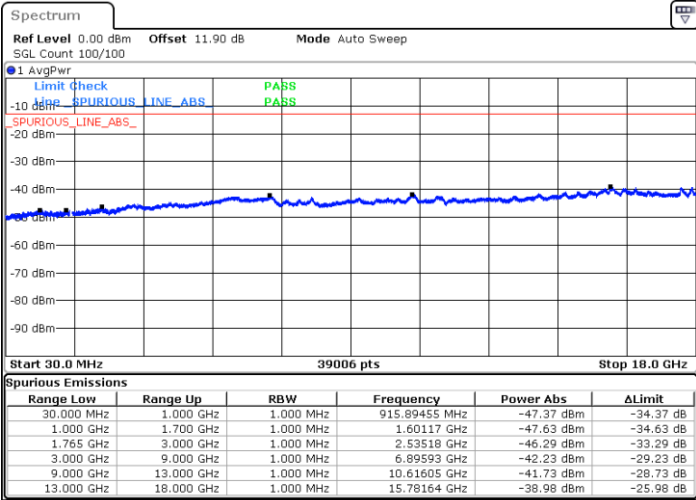
Date: 17.AUG.2020 14:04:05



LTE Band 4 / 10MHz

Lowest Channel / 64QAM

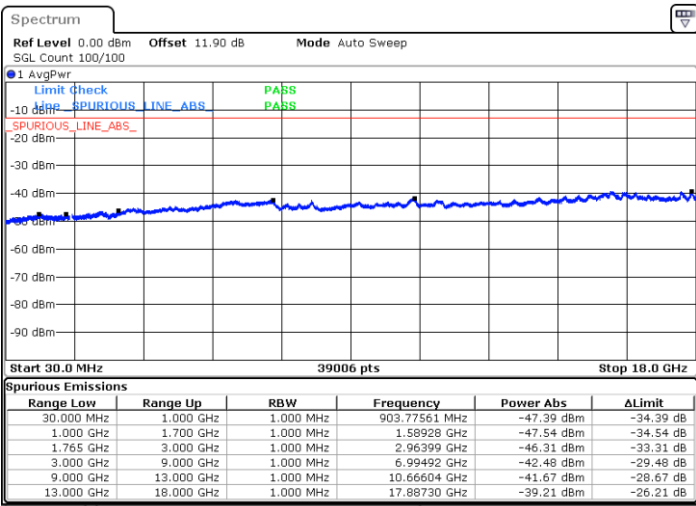
Middle Channel / 64QAM



Date: 17.AUG.2020 14:28:17

Date: 17.AUG.2020 14:29:19

Highest Channel / 64QAM



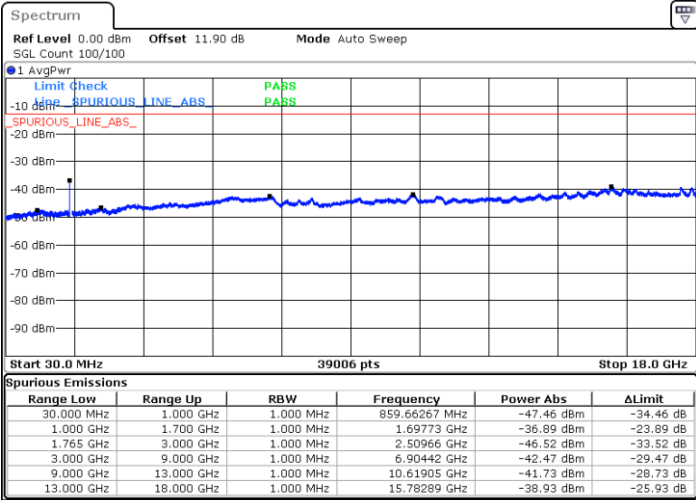
Date: 17.AUG.2020 14:31:32



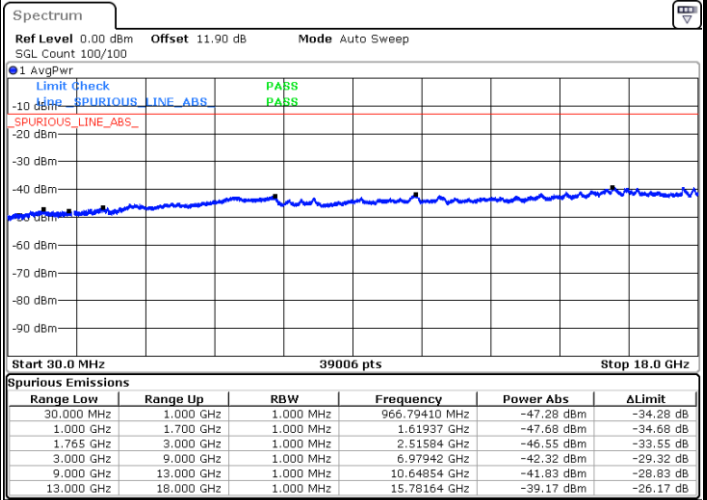
LTE Band 4 / 15MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

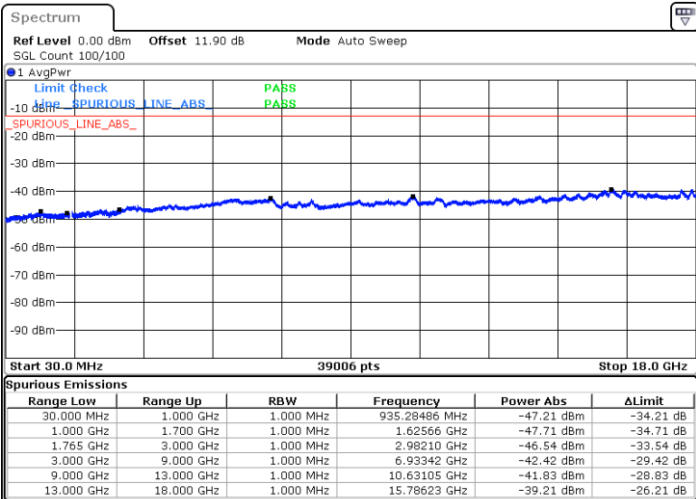


Date: 17.AUG.2020 14:44:45



Date: 17.AUG.2020 14:45:48

Highest Channel / 64QAM



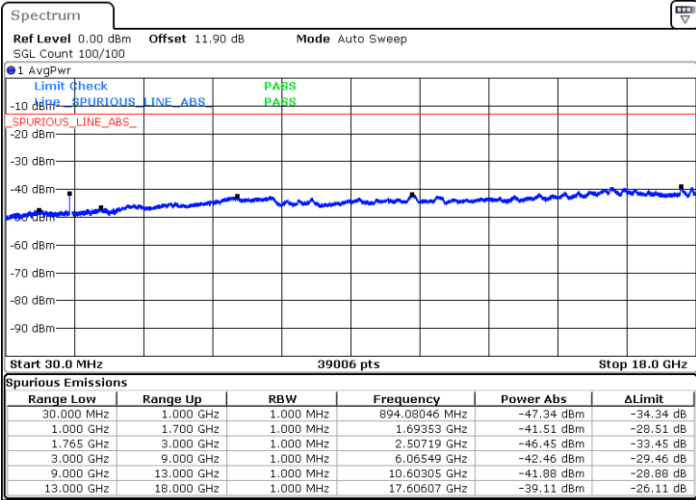
Date: 17.AUG.2020 14:48:01



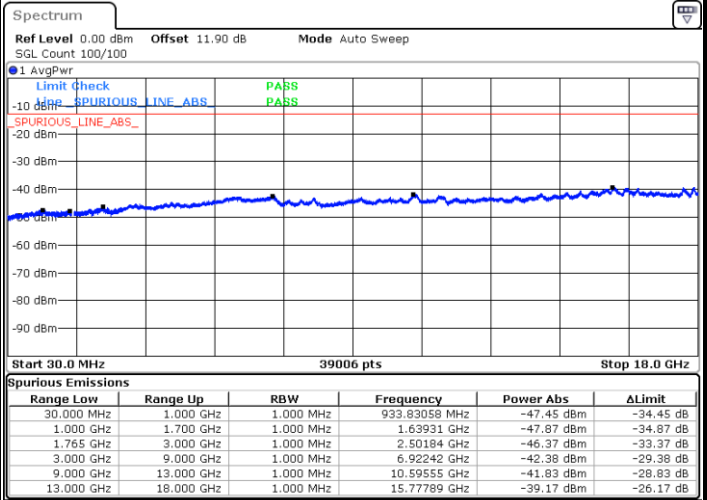
LTE Band 4 / 20MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

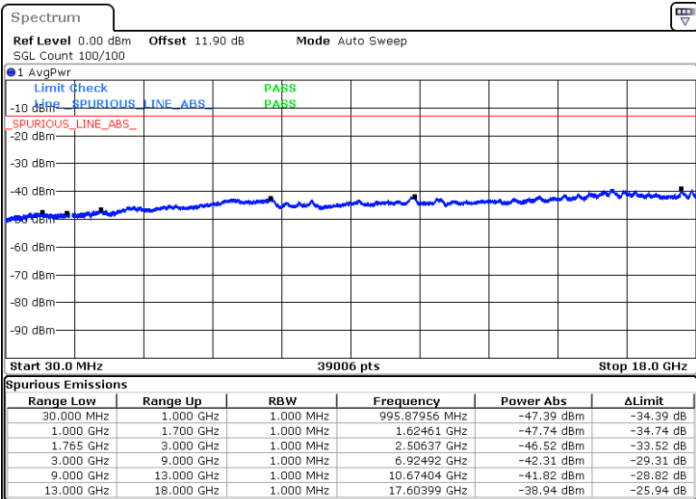


Date: 17.AUG.2020 15:01:14



Date: 17.AUG.2020 15:02:16

Highest Channel / 64QAM



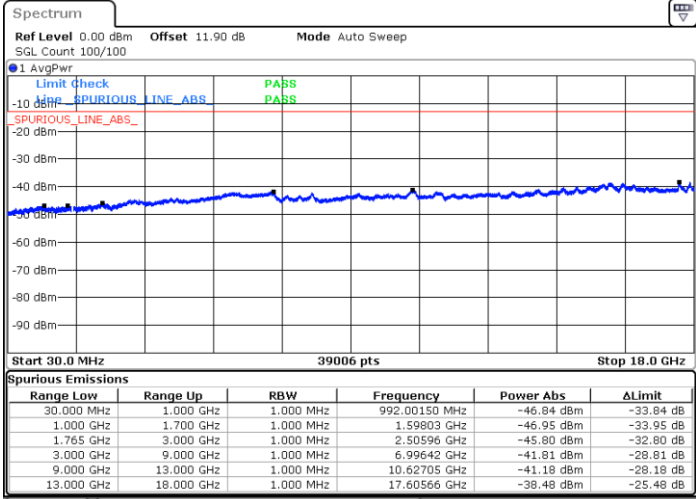
Date: 17.AUG.2020 15:04:29



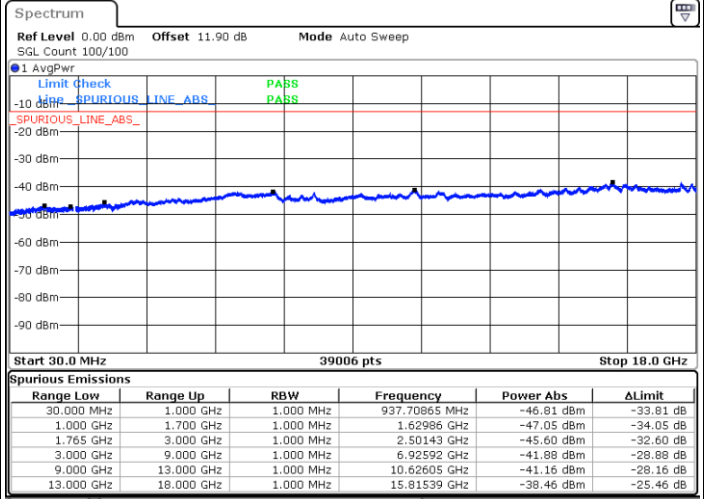
LTE Band 4 / 1.4MHz

Lowest Channel / 256QAM

Middle Channel / 256QAM

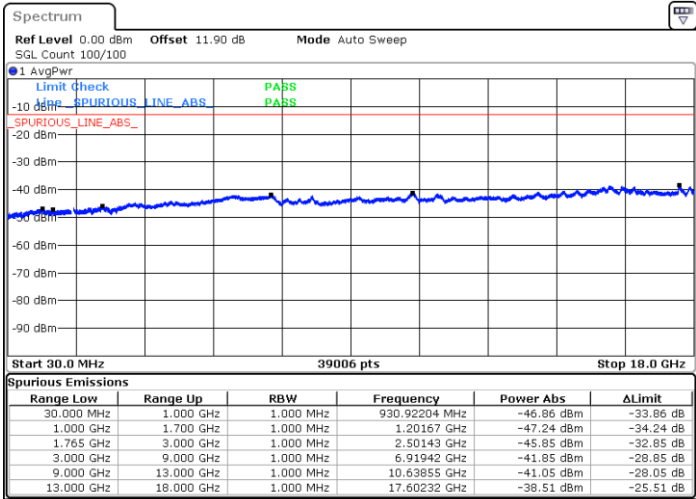


Date: 18.AUG.2020 19:39:55



Date: 18.AUG.2020 19:37:19

Highest Channel / 256QAM



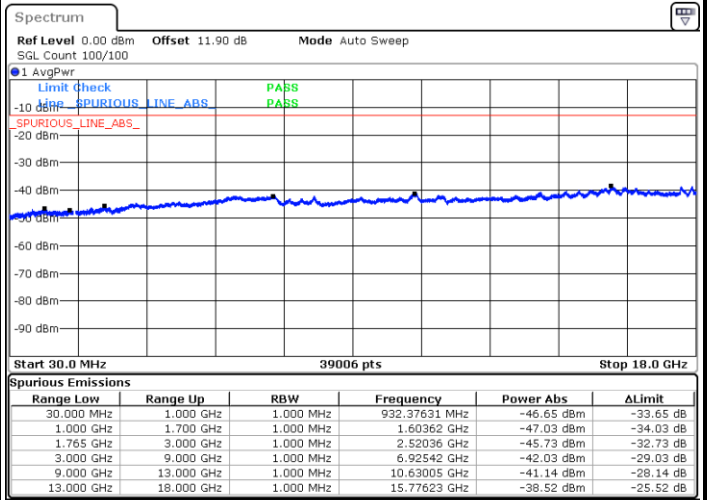
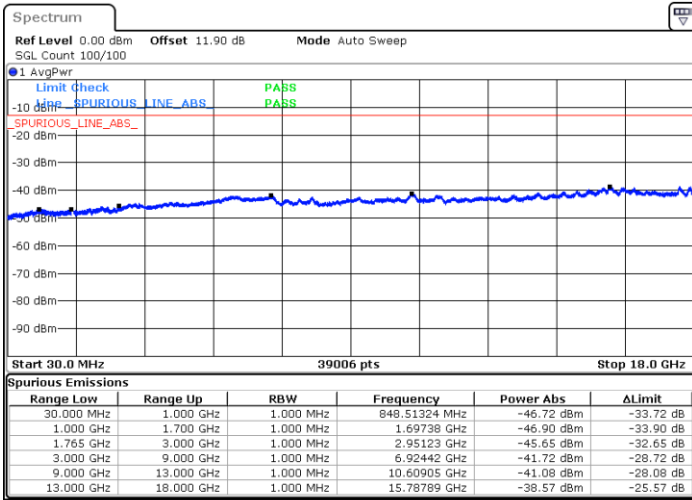
Date: 18.AUG.2020 19:43:40



LTE Band 4 / 3MHz

Lowest Channel / 256QAM

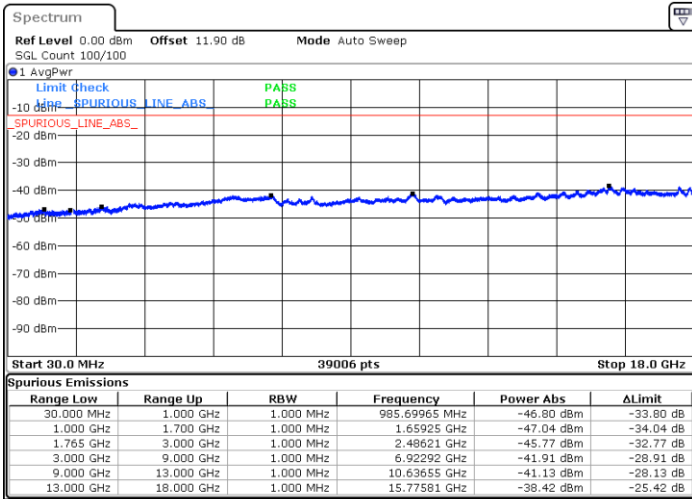
Middle Channel / 256QAM



Date: 18.AUG.2020 19:56:59

Date: 18.AUG.2020 19:53:56

Highest Channel / 256QAM



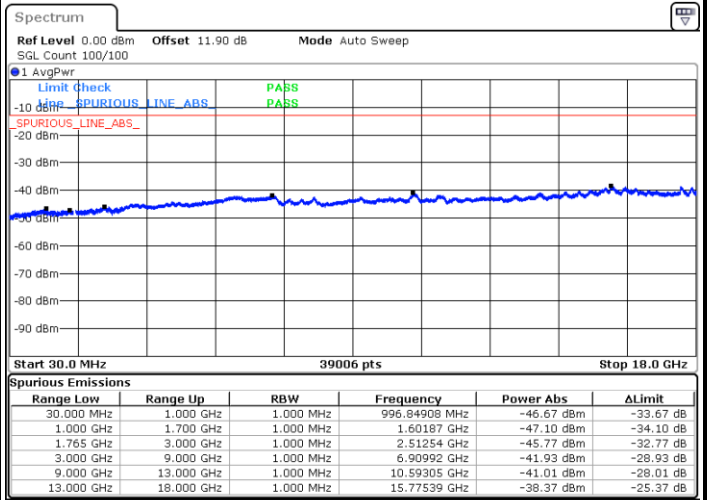
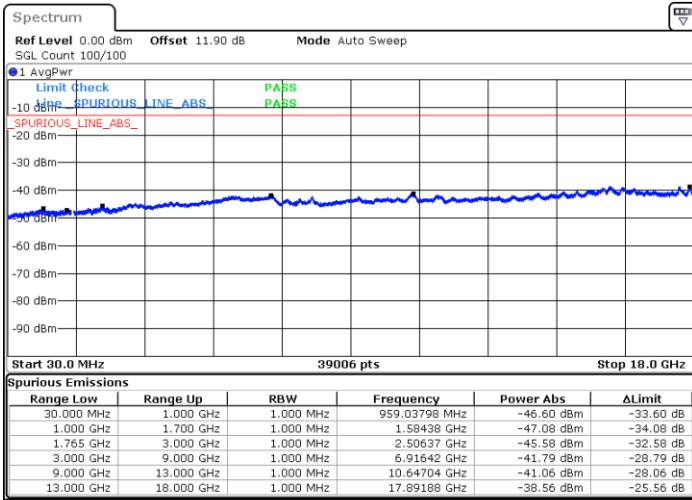
Date: 18.AUG.2020 19:59:10



LTE Band 4 / 5MHz

Lowest Channel / 256QAM

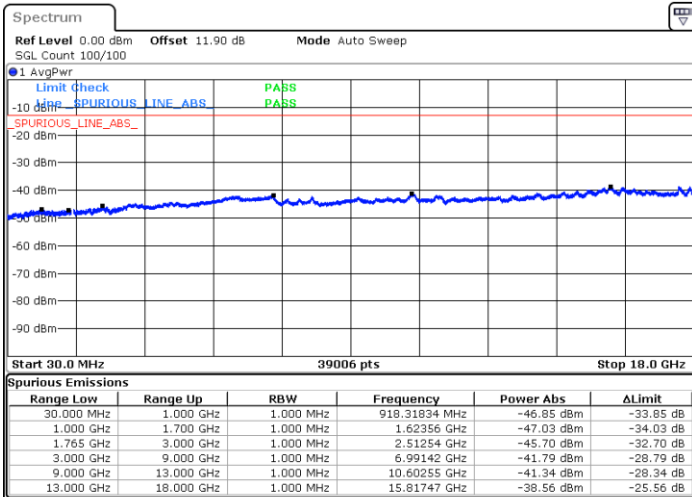
Middle Channel / 256QAM



Date: 18.AUG.2020 20:15:18

Date: 18.AUG.2020 20:01:34

Highest Channel / 256QAM



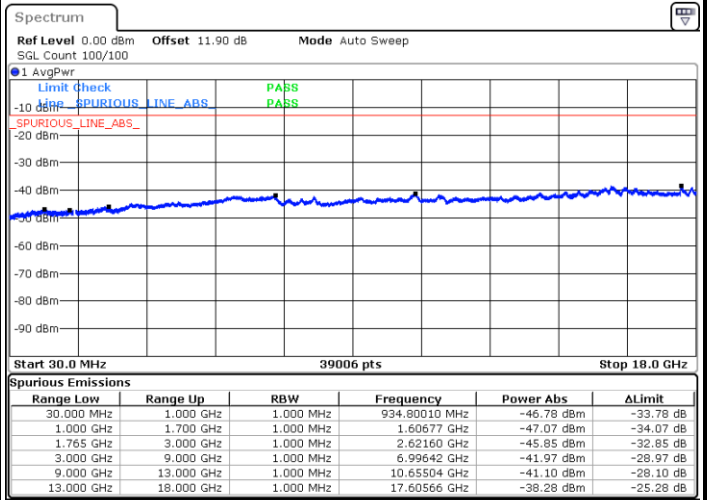
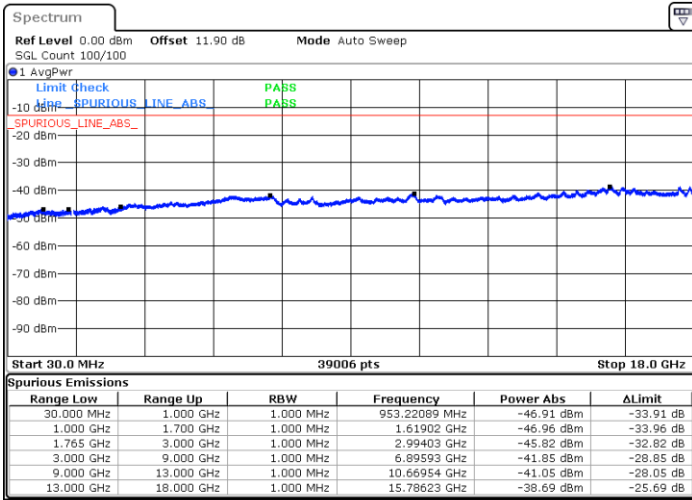
Date: 18.AUG.2020 20:17:31



LTE Band 4 / 10MHz

Lowest Channel / 256QAM

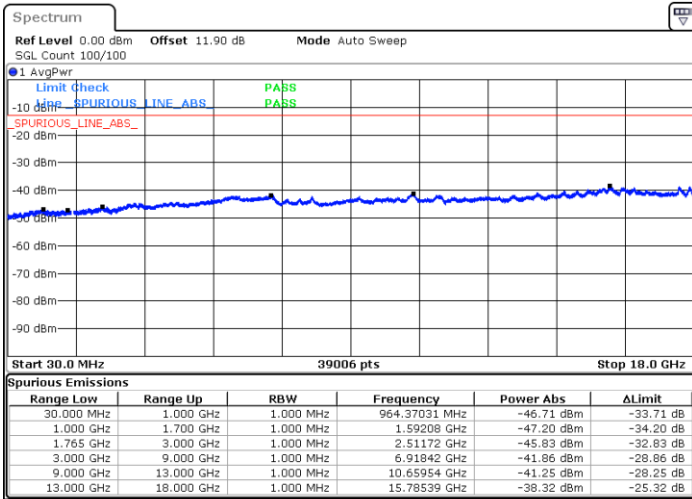
Middle Channel / 256QAM



Date: 18.AUG.2020 20:21:44

Date: 18.AUG.2020 20:19:45

Highest Channel / 256QAM



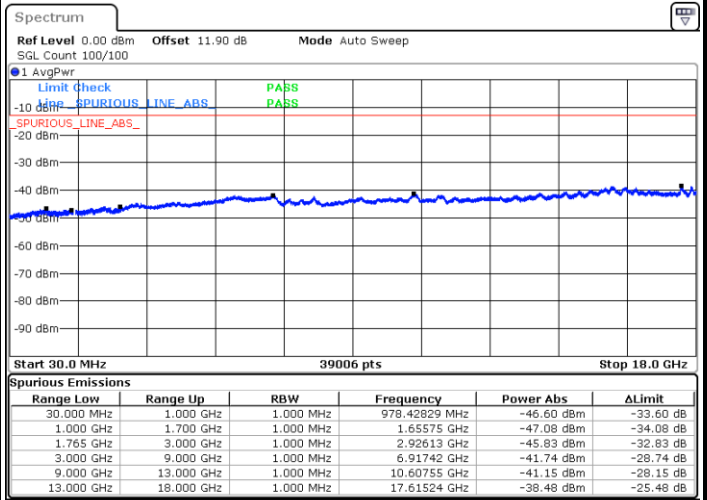
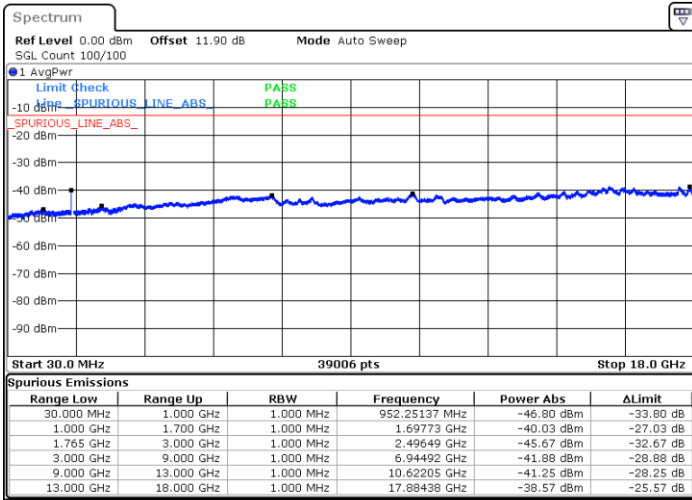
Date: 18.AUG.2020 20:23:52



LTE Band 4 / 15MHz

Lowest Channel / 256QAM

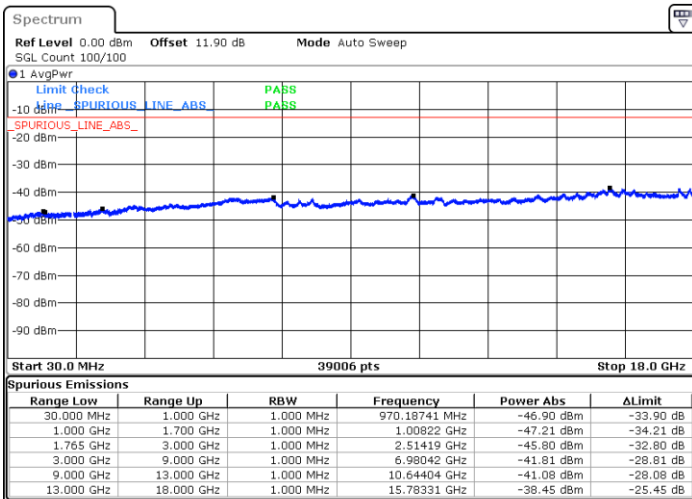
Middle Channel / 256QAM



Date: 18.AUG.2020 20:28:22

Date: 18.AUG.2020 20:25:21

Highest Channel / 256QAM



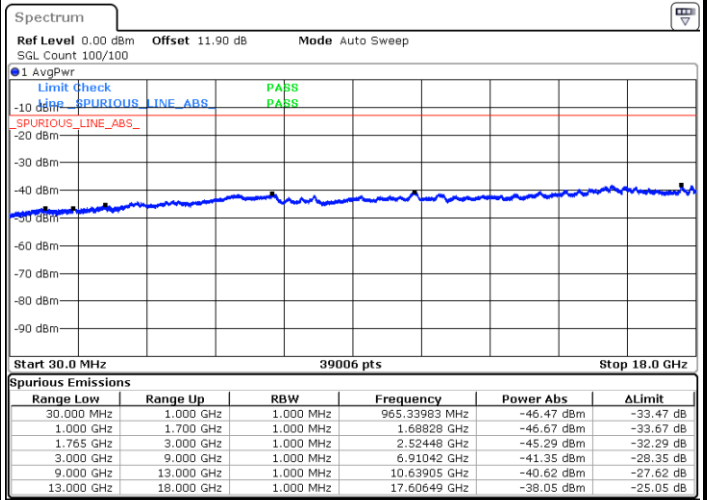
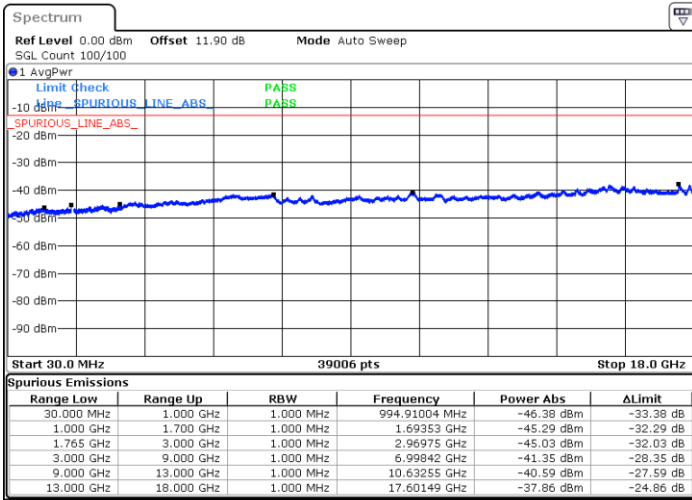
Date: 18.AUG.2020 20:30:27



LTE Band 4 / 20MHz

Lowest Channel / 256QAM

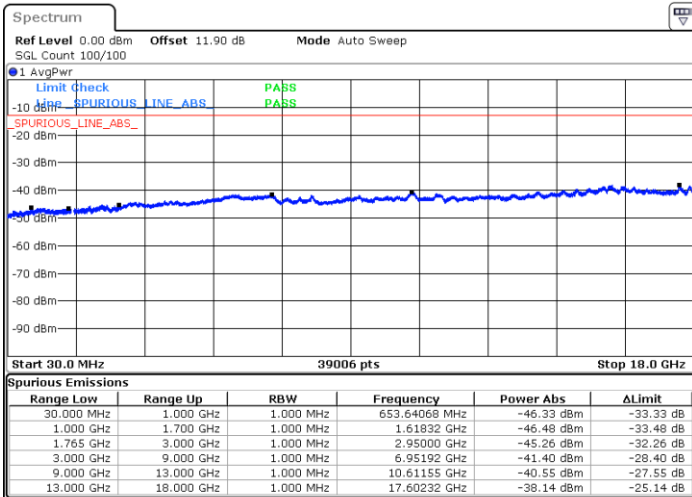
Middle Channel / 256QAM



Date: 19.AUG.2020 08:44:33

Date: 19.AUG.2020 08:41:56

Highest Channel / 256QAM



Date: 19.AUG.2020 08:38:38



Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0100	PASS
40	Normal Voltage	0.0106	
30	Normal Voltage	0.0095	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0078	
-10	Normal Voltage	0.0109	
-20	Normal Voltage	0.0010	
-30	Normal Voltage	0.0089	
20	Maximum Voltage	0.0083	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0004	

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 5

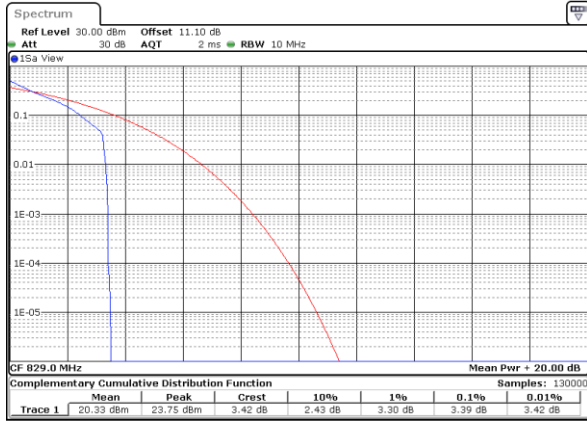
Peak-to-Average Ratio

Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.39	4.96	5.16	5.94	PASS
Middle CH	3.62	4.90	5.51	5.83	
Highest CH	3.45	4.70	5.39	5.71	
Mode	LTE Band 5 / 10MHz				
Mod.	64QAM		256QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	6.55	6.23	7.51	6.35	PASS
Middle CH	6.61	6.41	7.48	6.41	
Highest CH	6.38	6.26	7.13	6.32	



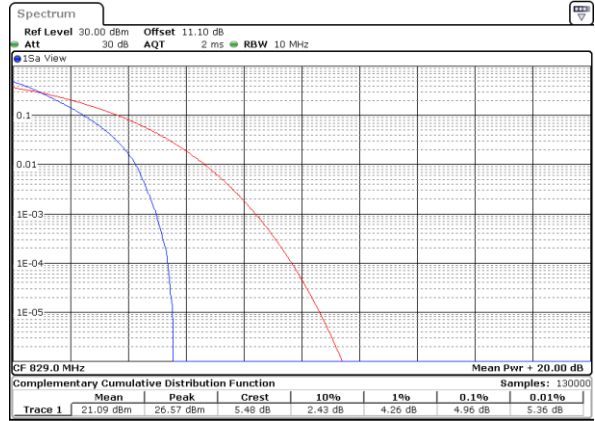
LTE Band 5 / 10MHz / QPSK

Lowest Channel / 1RB



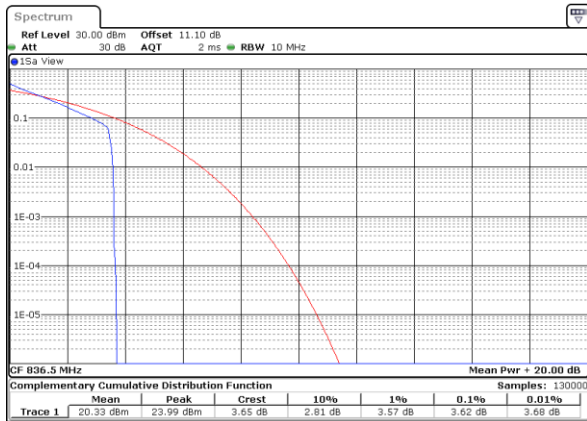
Date: 17_AUG.2020 17:13:08

Lowest Channel / Full RB



Date: 17_AUG.2020 17:13:18

Middle Channel / 1RB



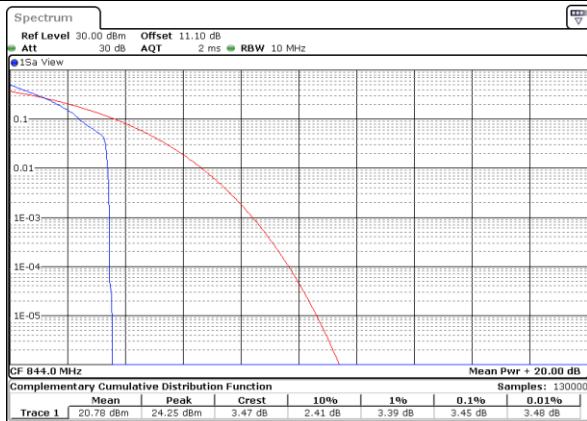
Date: 17_AUG.2020 17:13:29

Middle Channel / Full RB



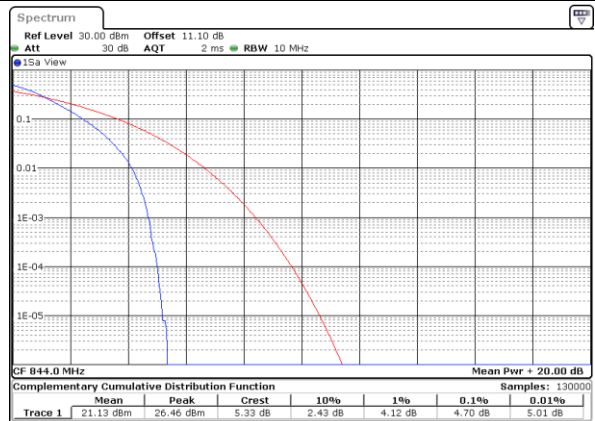
Date: 17_AUG.2020 17:13:40

Highest Channel / 1RB



Date: 17_AUG.2020 17:13:51

Highest Channel / Full RB

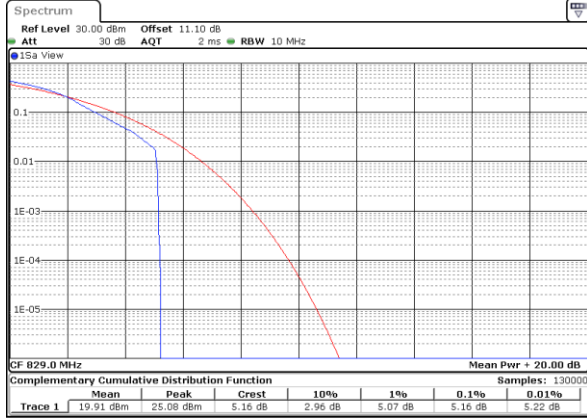


Date: 17_AUG.2020 17:14:02



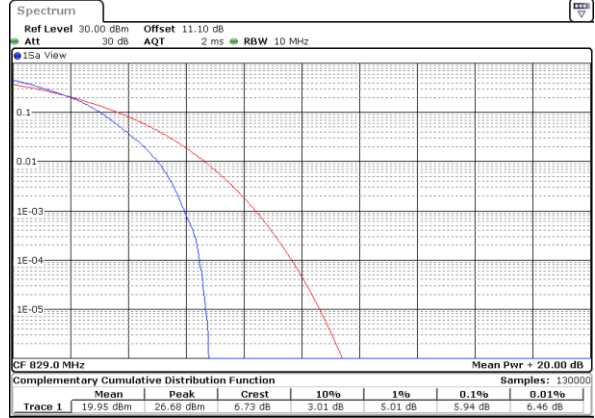
LTE Band 5 / 10MHz / 16QAM

Lowest Channel / 1RB



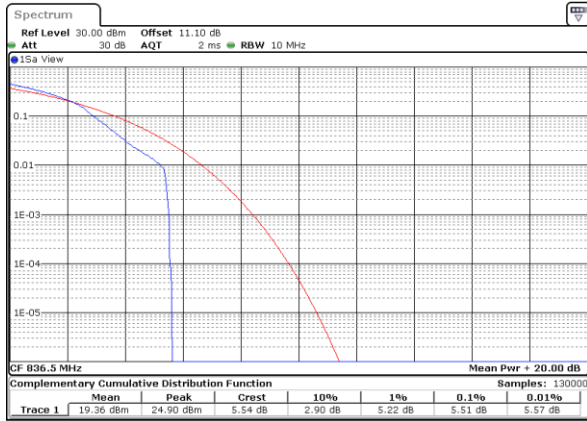
Date: 17_AUG.2020 17:12:02

Lowest Channel / Full RB



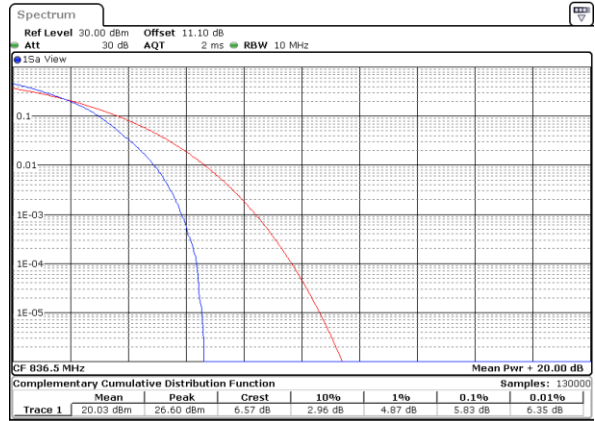
Date: 17_AUG.2020 17:12:12

Middle Channel / 1RB



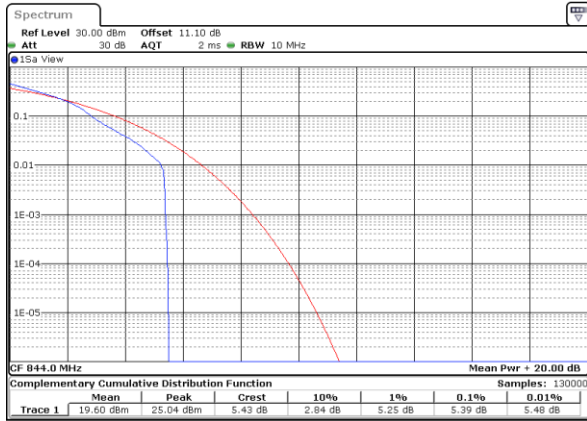
Date: 17_AUG.2020 17:12:03

Middle Channel / Full RB



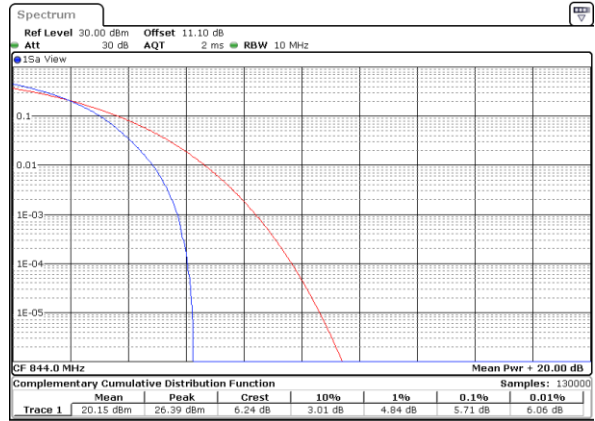
Date: 17_AUG.2020 17:12:33

Highest Channel / 1RB



Date: 17_AUG.2020 17:12:43

Highest Channel / Full RB

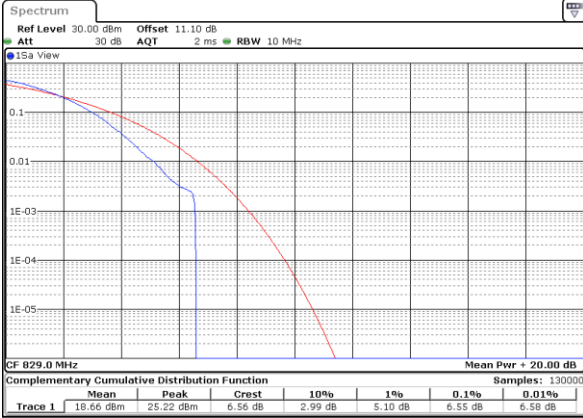


Date: 17_AUG.2020 17:12:55



LTE Band 5 / 10MHz / 64QAM

Lowest Channel / 1RB



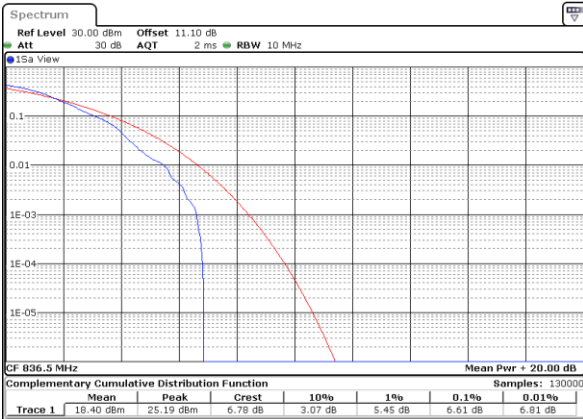
Date: 17_AUG.2020 17:14:12

Lowest Channel / Full RB



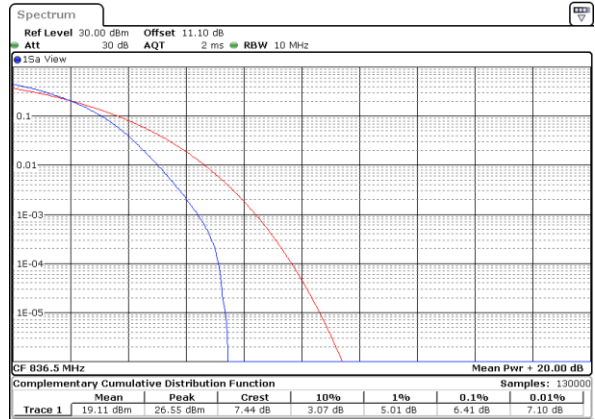
Date: 17_AUG.2020 17:14:23

Middle Channel / 1RB



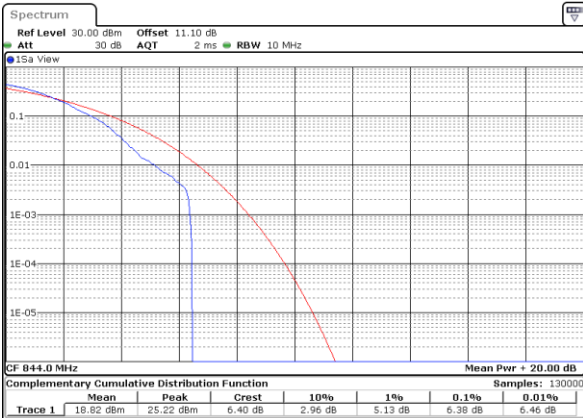
Date: 17_AUG.2020 17:14:33

Middle Channel / Full RB



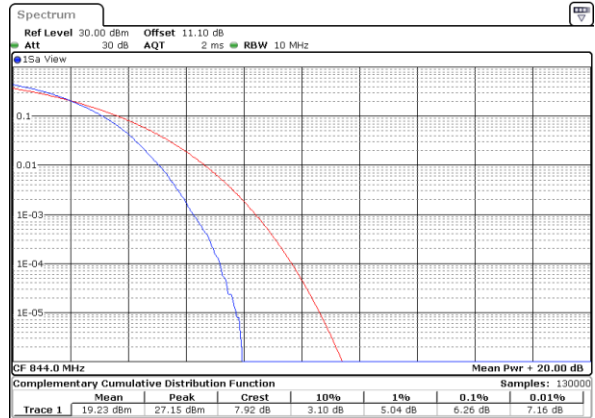
Date: 17_AUG.2020 17:14:44

Highest Channel / 1RB



Date: 17_AUG.2020 17:14:54

Highest Channel / Full RB

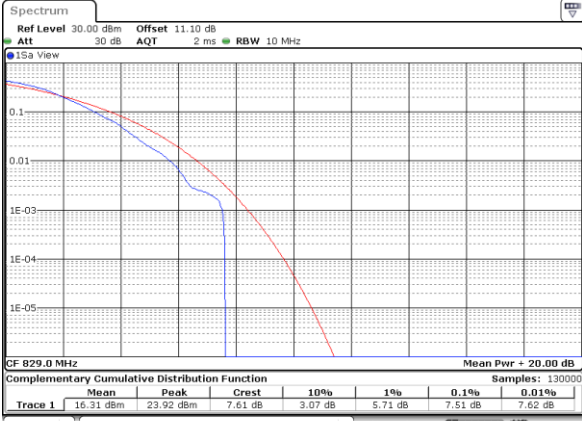


Date: 17_AUG.2020 17:15:04



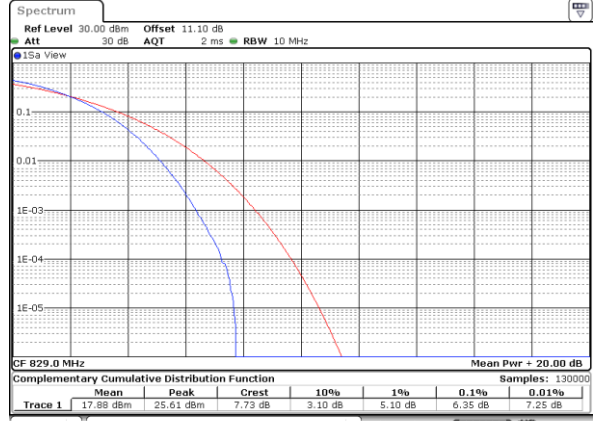
LTE Band 5 / 10MHz / 256QAM

Lowest Channel / 1RB



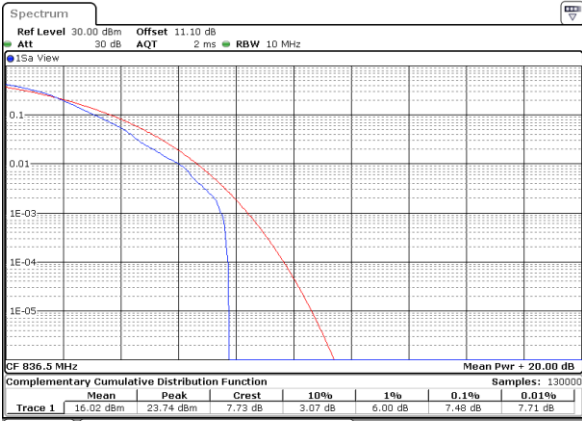
Date: 19_AUG.2020 09:16:35

Lowest Channel / Full RB



Date: 19_AUG.2020 09:16:21

Middle Channel / 1RB



Date: 19_AUG.2020 09:14:32

Middle Channel / Full RB



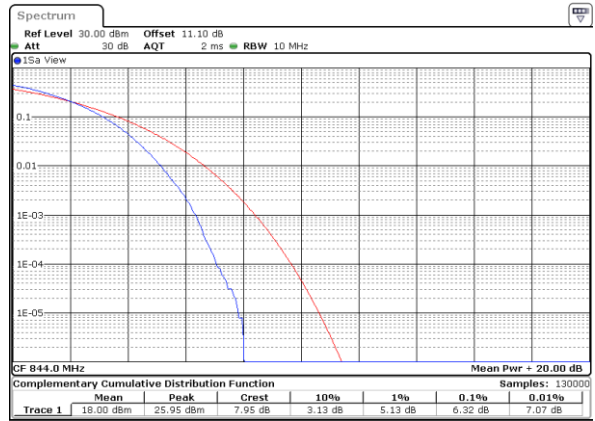
Date: 19_AUG.2020 09:14:47

Highest Channel / 1RB



Date: 19_AUG.2020 09:19:10

Highest Channel / Full RB



Date: 19_AUG.2020 09:18:44



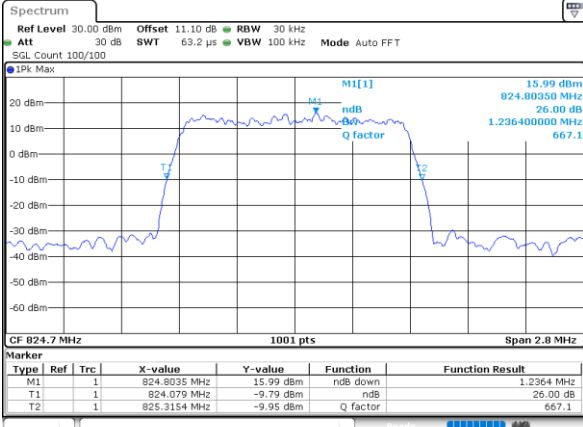
26dB Bandwidth

Mode	LTE Band 5 : 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	3.03	3.00	4.81	4.93	9.87	9.75	-	-	-	-
Middle CH	1.23	1.21	2.97	3.02	4.84	4.84	9.69	9.77	-	-	-	-
Highest CH	1.22	1.23	3.09	3.03	4.91	4.83	9.71	9.77	-	-	-	-
Mode	LTE Band 5 : 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	1.21	1.23	3.04	3.02	4.89	4.88	9.87	9.65	-	-	-	-
Middle CH	1.23	1.22	3.02	3.09	4.88	4.87	9.71	9.83	-	-	-	-
Highest CH	1.24	1.23	2.99	3.03	4.90	4.97	9.61	9.89	-	-	-	-



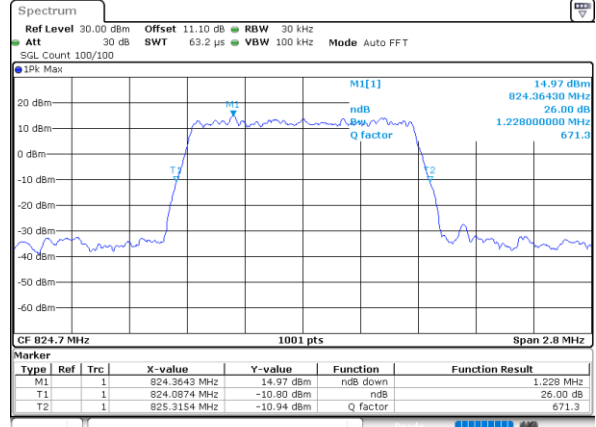
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



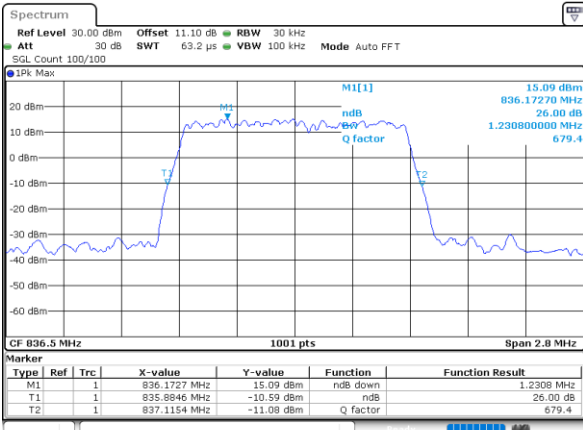
Date: 17_AUG.2020 15:54:42

Lowest Channel / 1.4MHz / 16QAM



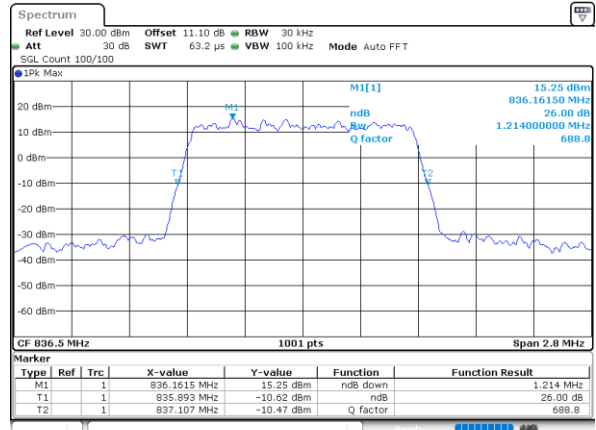
Date: 17_AUG.2020 15:54:31

Middle Channel / 1.4MHz / QPSK



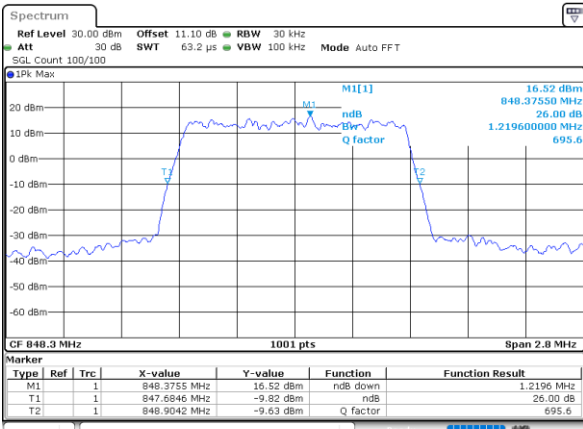
Date: 17_AUG.2020 15:56:37

Middle Channel / 1.4MHz / 16QAM



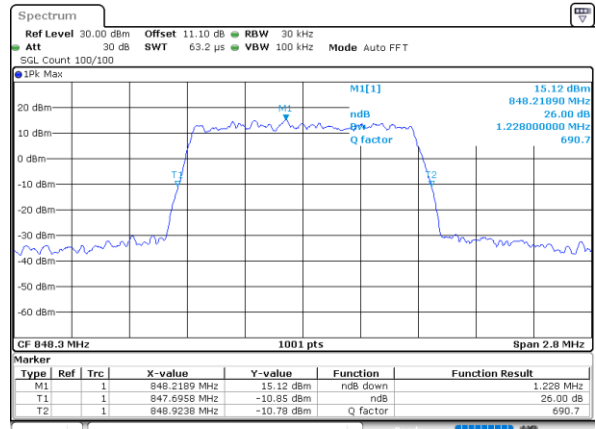
Date: 17_AUG.2020 15:56:48

Highest Channel / 1.4MHz / QPSK



Date: 17_AUG.2020 15:58:42

Highest Channel / 1.4MHz / 16QAM

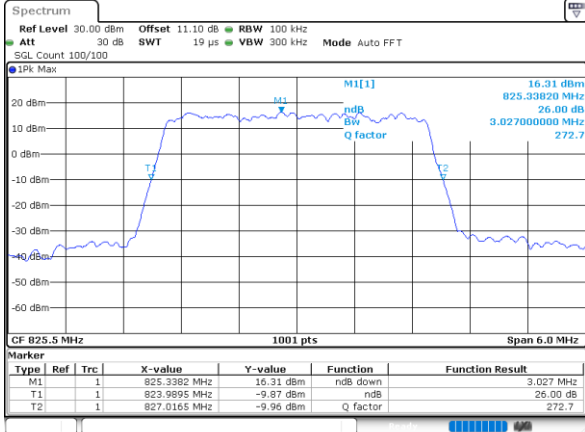


Date: 17_AUG.2020 15:58:54



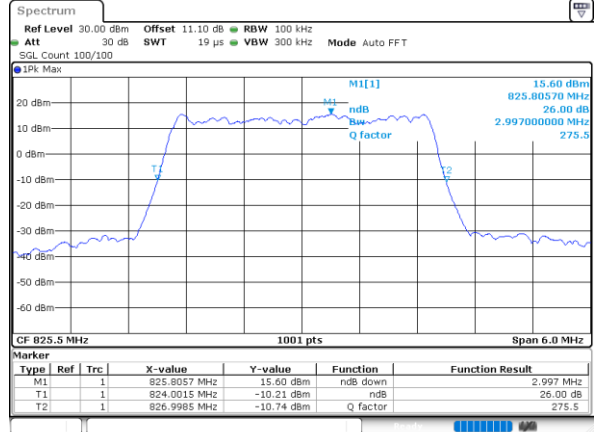
LTE Band 5

Lowest Channel / 3MHz / QPSK



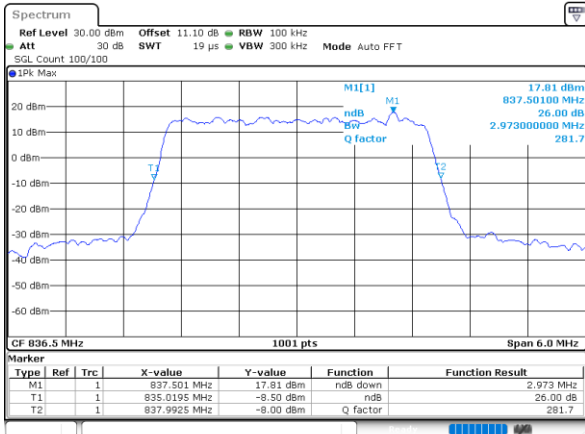
Date: 17_AUG.2020 16:03:59

Lowest Channel / 3MHz / 16QAM



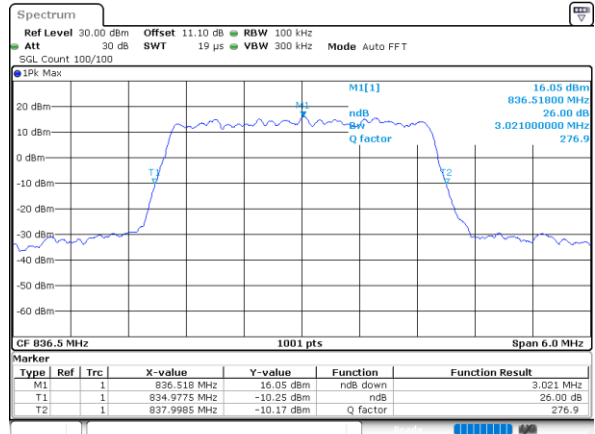
Date: 17_AUG.2020 16:04:11

Middle Channel / 3MHz / QPSK



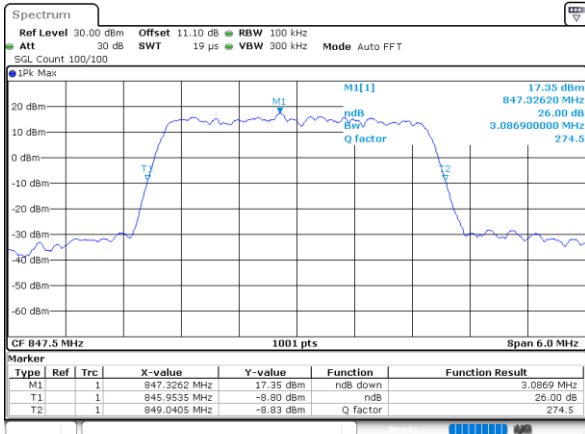
Date: 17_AUG.2020 16:06:05

Middle Channel / 3MHz / 16QAM



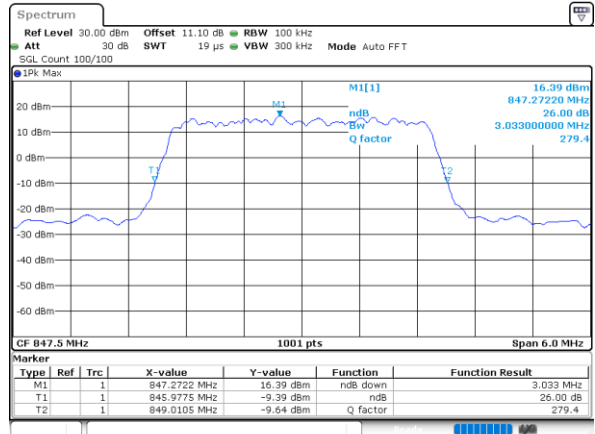
Date: 17_AUG.2020 16:06:16

Highest Channel / 3MHz / QPSK



Date: 17_AUG.2020 16:08:10

Highest Channel / 3MHz / 16QAM

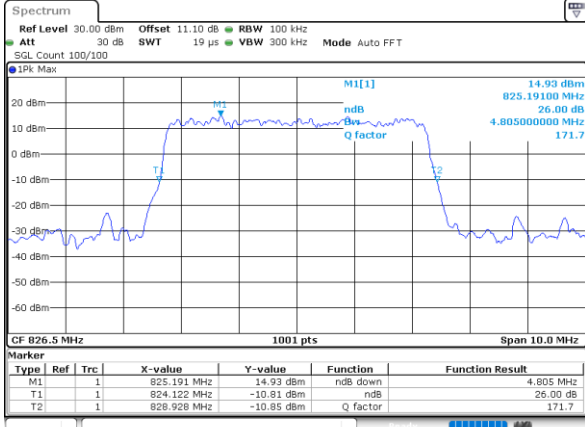


Date: 17_AUG.2020 16:08:22



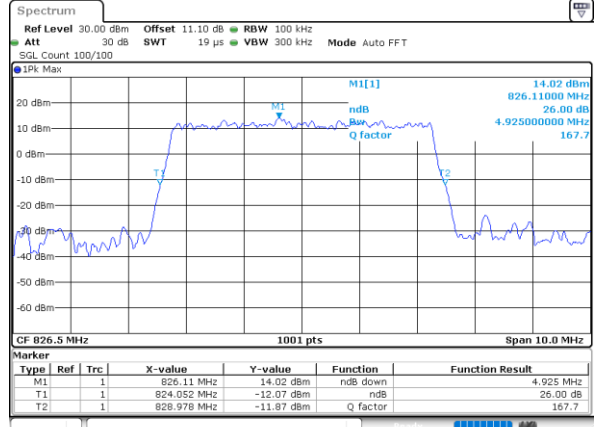
LTE Band 5

Lowest Channel / 5MHz / QPSK



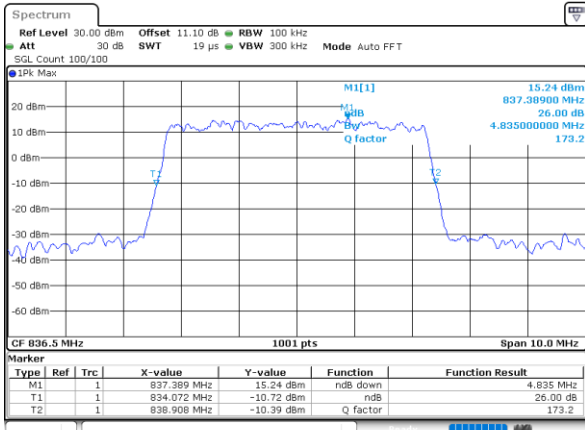
Date: 17_AUG.2020 16:13:20

Lowest Channel / 5MHz / 16QAM



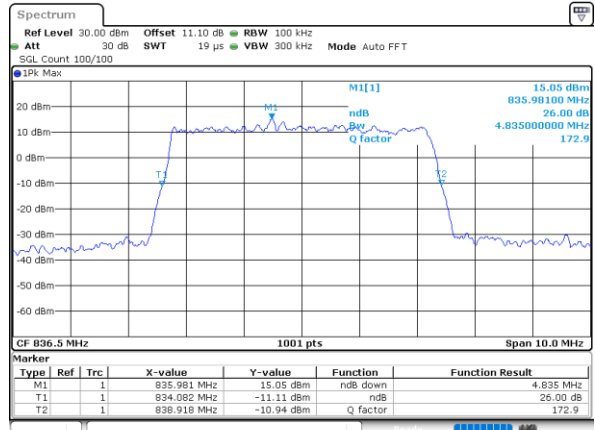
Date: 17_AUG.2020 16:13:39

Middle Channel / 5MHz / QPSK



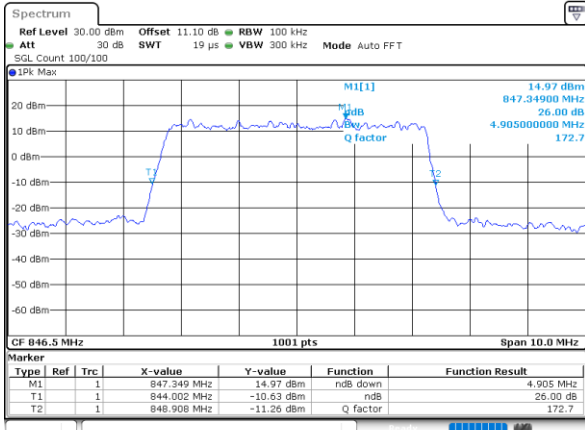
Date: 17_AUG.2020 16:22:13

Middle Channel / 5MHz / 16QAM



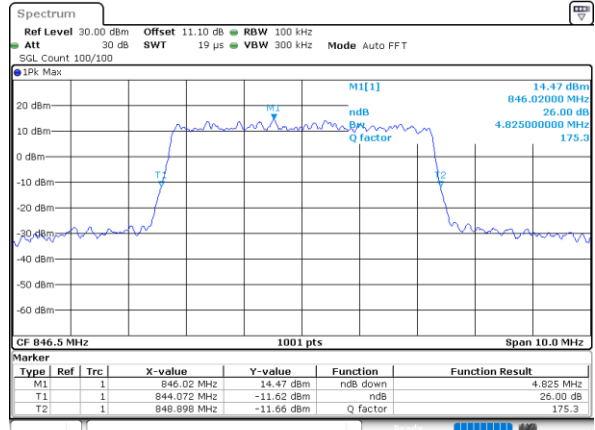
Date: 17_AUG.2020 16:22:05

Highest Channel / 5MHz / QPSK



Date: 17_AUG.2020 16:24:19

Highest Channel / 5MHz / 16QAM

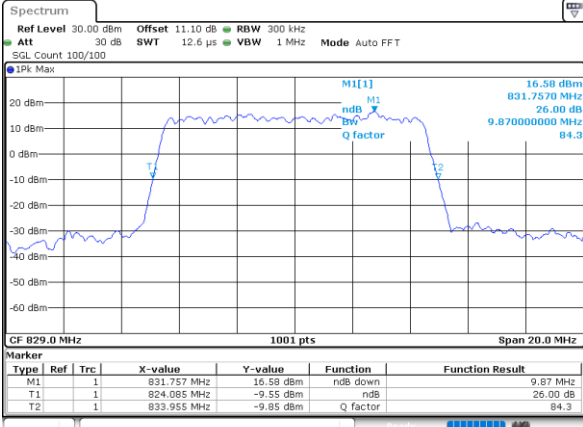


Date: 17_AUG.2020 16:24:31



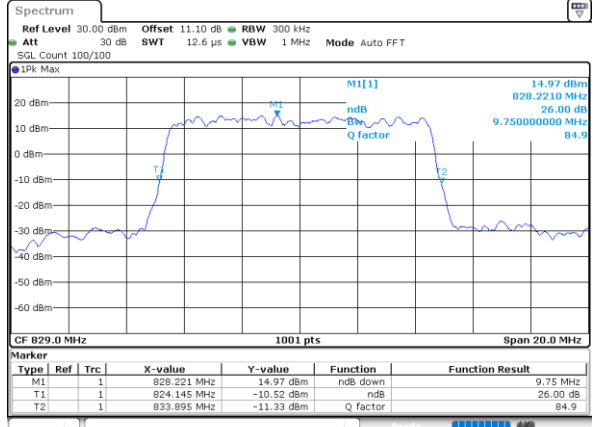
LTE Band 5

Lowest Channel / 10MHz / QPSK



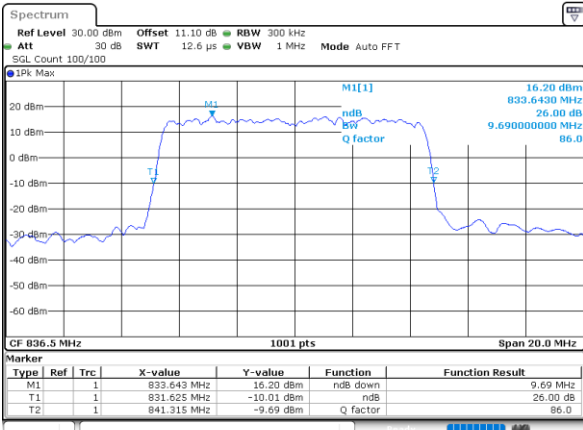
Date: 17_AUG.2020 16:42:16

Lowest Channel / 10MHz / 16QAM



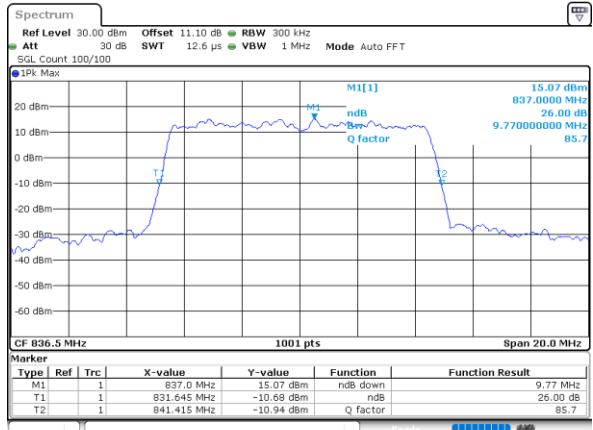
Date: 17_AUG.2020 16:42:28

Middle Channel / 10MHz / QPSK



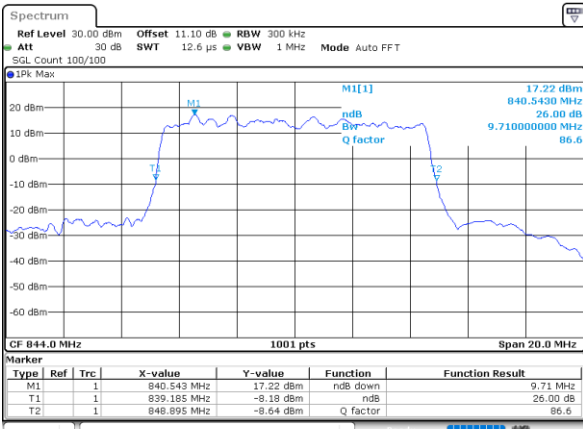
Date: 17_AUG.2020 16:51:02

Middle Channel / 10MHz / 16QAM



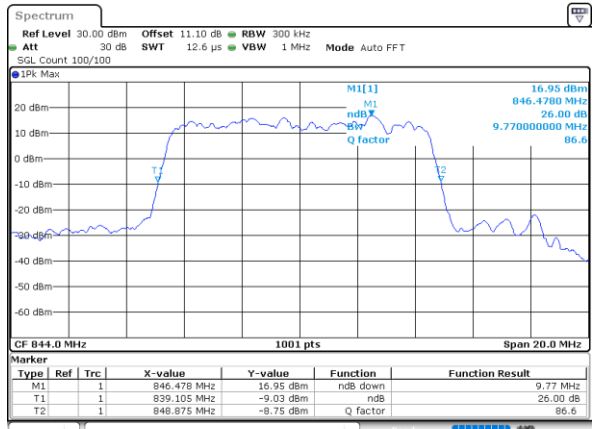
Date: 17_AUG.2020 16:51:13

Highest Channel / 10MHz / QPSK



Date: 17_AUG.2020 16:53:08

Highest Channel / 10MHz / 16QAM

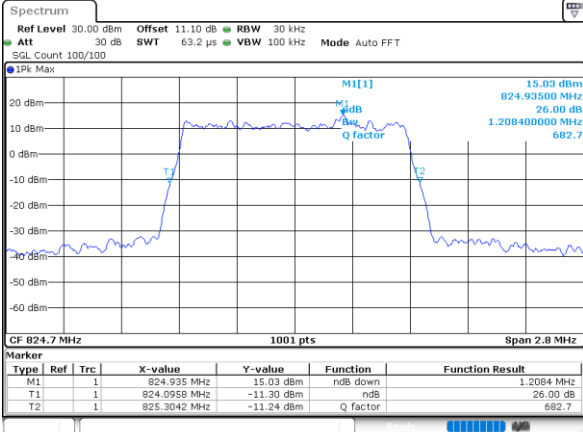


Date: 17_AUG.2020 16:53:20



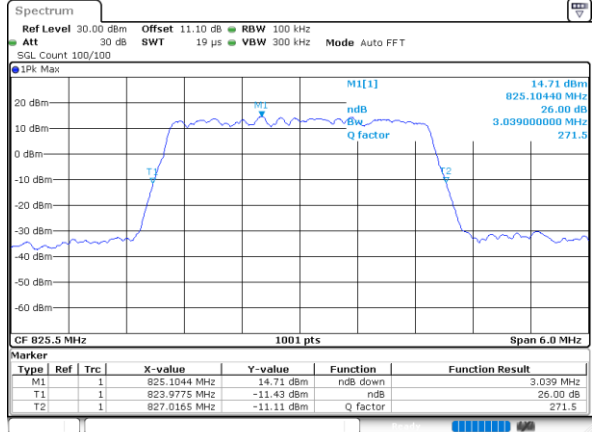
LTE Band 5

Lowest Channel / 1.4MHz / 64QAM



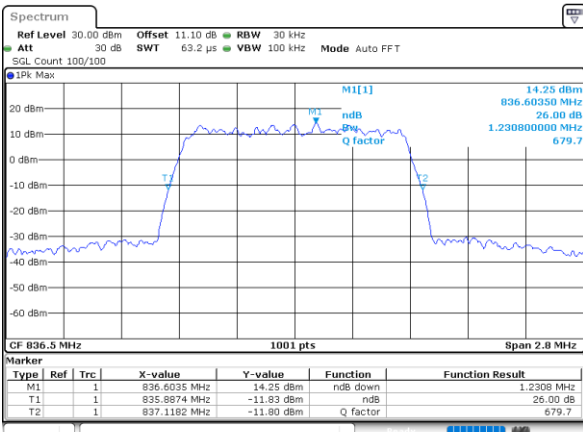
Date: 17_AUG.2020 16:00:37

Lowest Channel / 3MHz / 64QAM



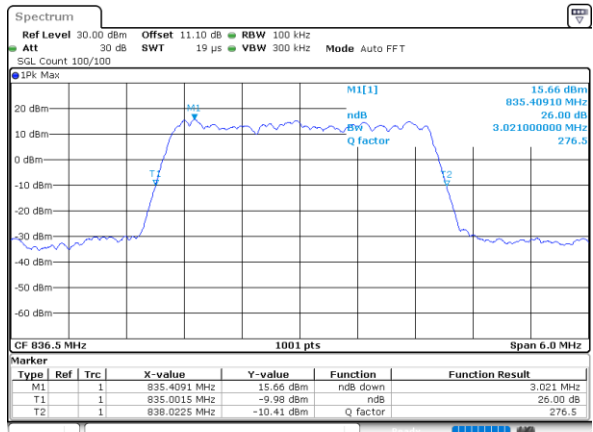
Date: 17_AUG.2020 16:11:06

Middle Channel / 1.4MHz / 64QAM



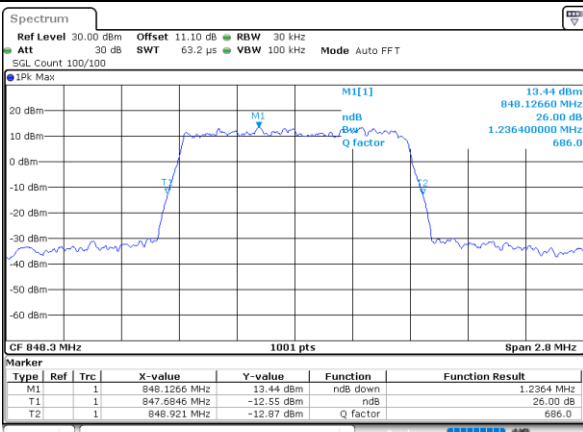
Date: 17_AUG.2020 16:01:40

Middle Channel / 3MHz / 64QAM



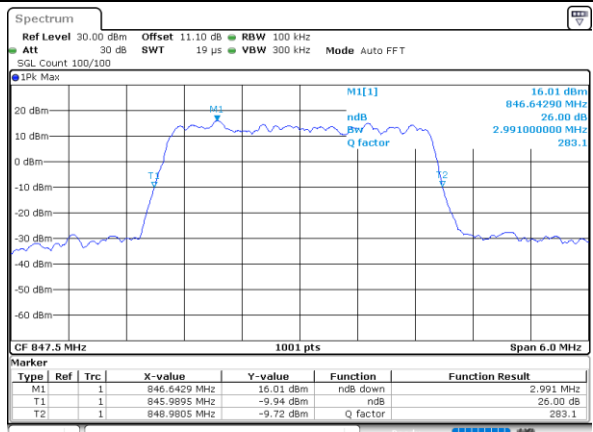
Date: 17_AUG.2020 16:11:09

Highest Channel / 1.4MHz / 64QAM



Date: 17_AUG.2020 16:02:43

Highest Channel / 3MHz / 64QAM

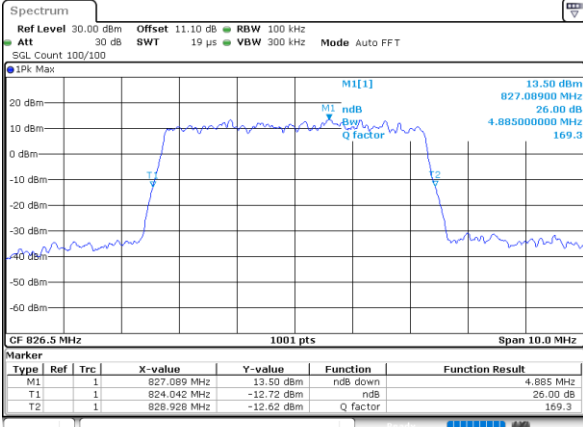


Date: 17_AUG.2020 16:11:12



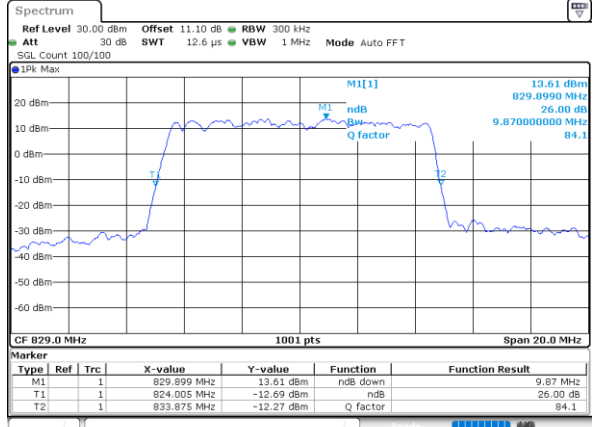
LTE Band 5

Lowest Channel / 5MHz / 64QAM



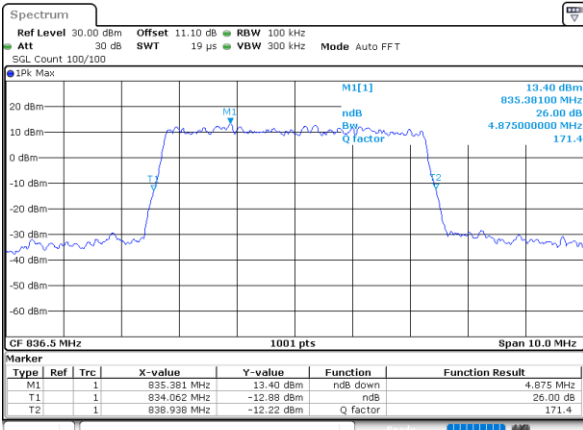
Date: 17_AUG.2020 16:32:54

Lowest Channel / 10MHz / 64QAM



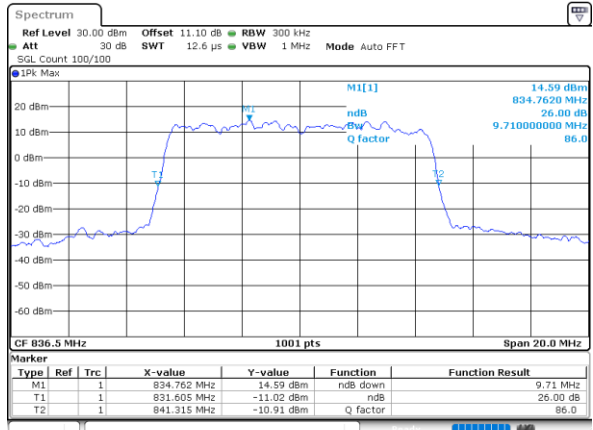
Date: 17_AUG.2020 17:02:25

Middle Channel / 5MHz / 64QAM



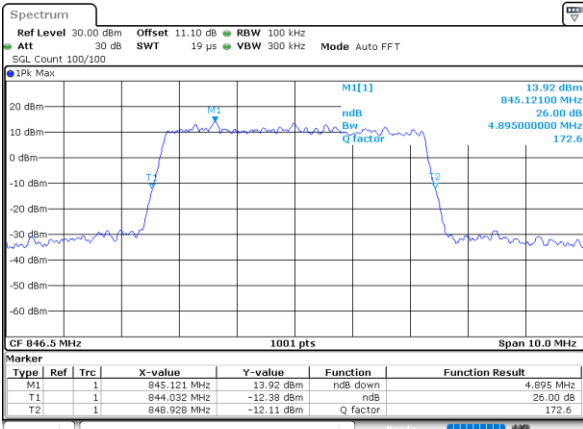
Date: 17_AUG.2020 16:37:17

Middle Channel / 10MHz / 64QAM



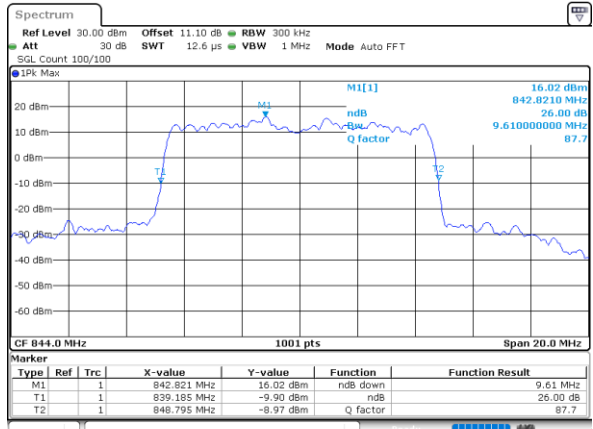
Date: 17_AUG.2020 17:06:47

Highest Channel / 5MHz / 64QAM



Date: 17_AUG.2020 16:38:20

Highest Channel / 10MHz / 64QAM

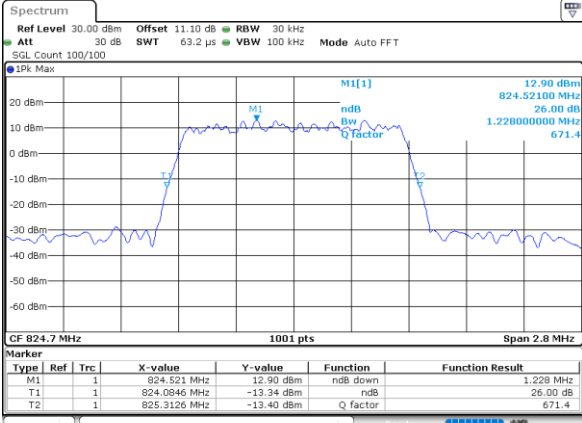


Date: 17_AUG.2020 17:07:50



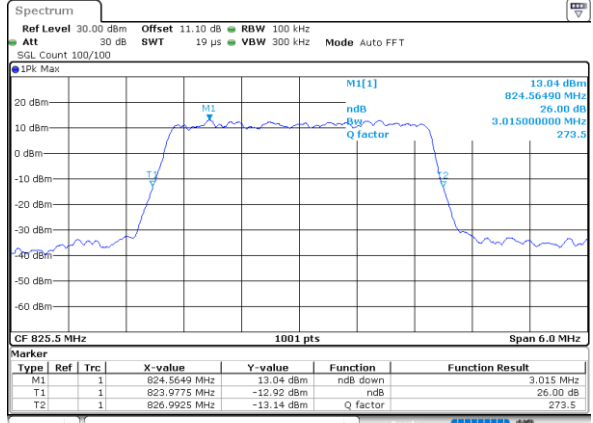
LTE Band 5

Lowest Channel / 1.4MHz / 256QAM



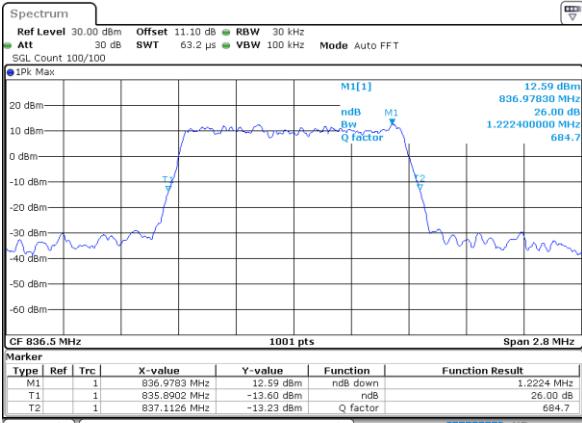
Date: 19_AUG.2020 08:48:24

Lowest Channel / 3MHz / 256QAM



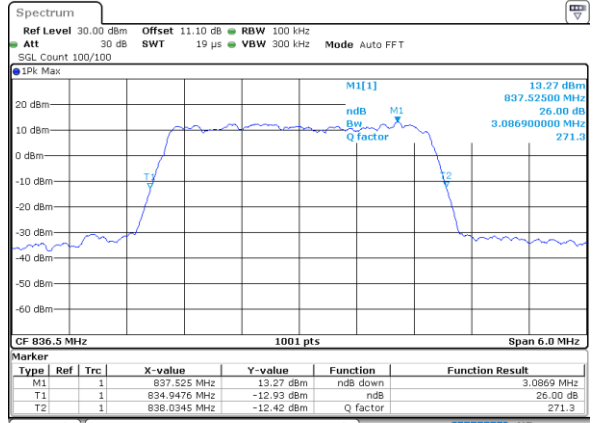
Date: 19_AUG.2020 08:58:58

Middle Channel / 1.4MHz / 256QAM



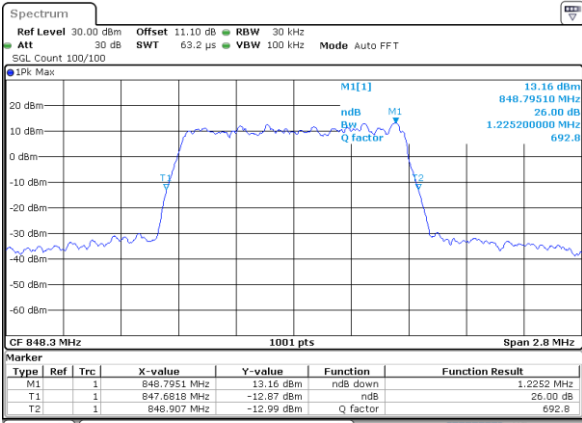
Date: 19_AUG.2020 08:46:40

Middle Channel / 3MHz / 256QAM



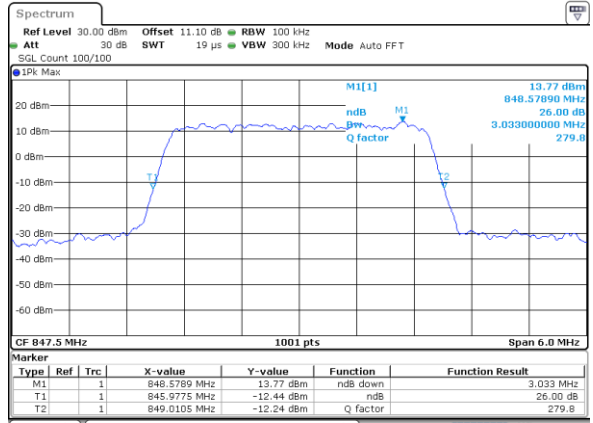
Date: 19_AUG.2020 08:57:48

Highest Channel / 1.4MHz / 256QAM



Date: 19_AUG.2020 08:53:12

Highest Channel / 3MHz / 256QAM



Date: 19_AUG.2020 09:02:23