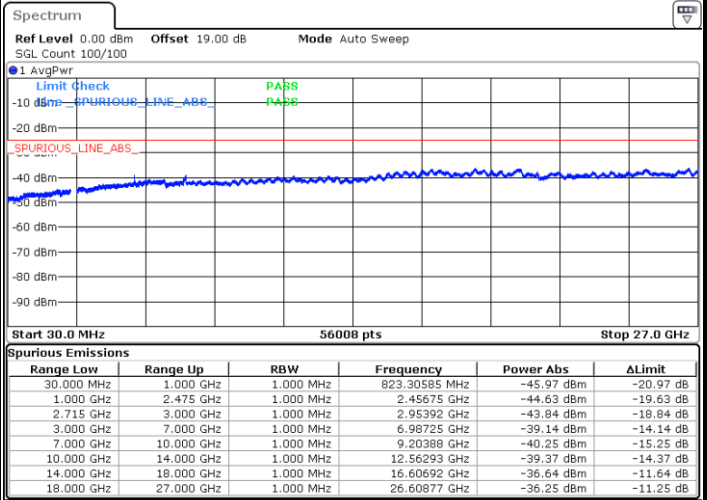
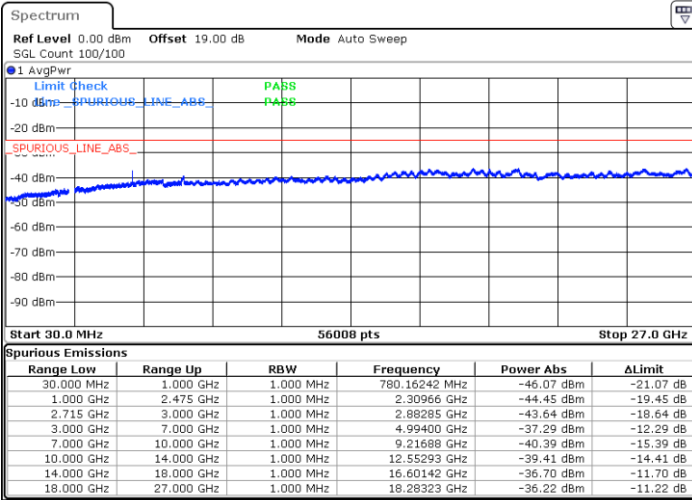




LTE Band 41 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

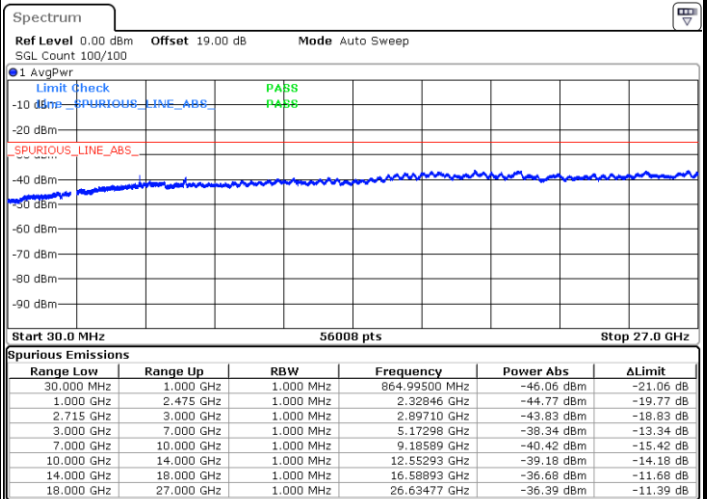
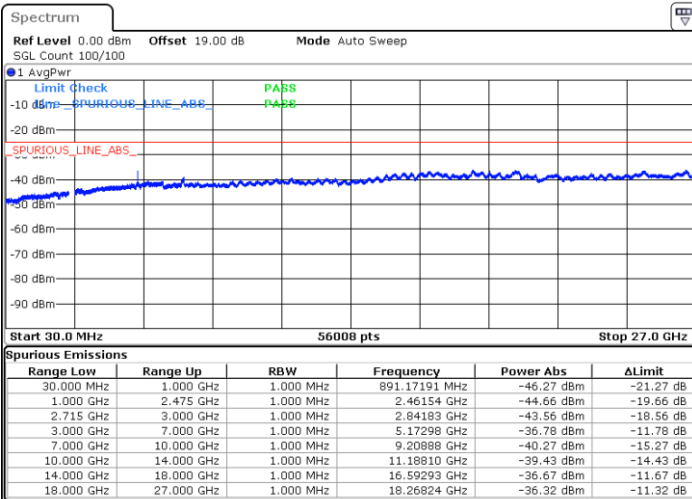


Date: 15.JAN.2020 03:49:56

Date: 15.JAN.2020 03:50:43

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 15.JAN.2020 03:51:29

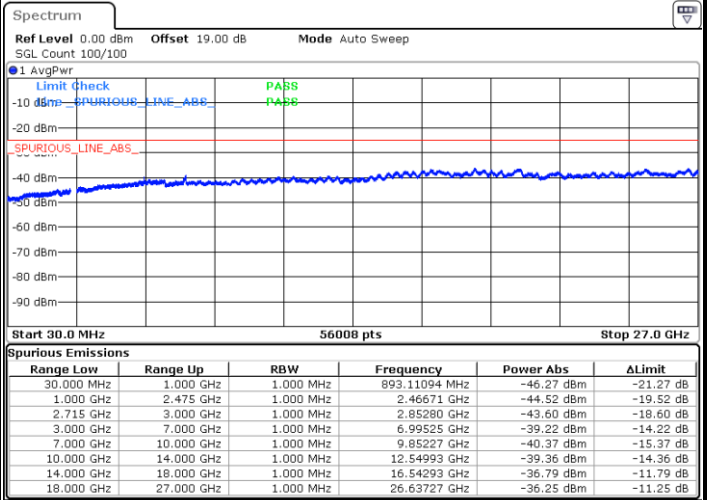
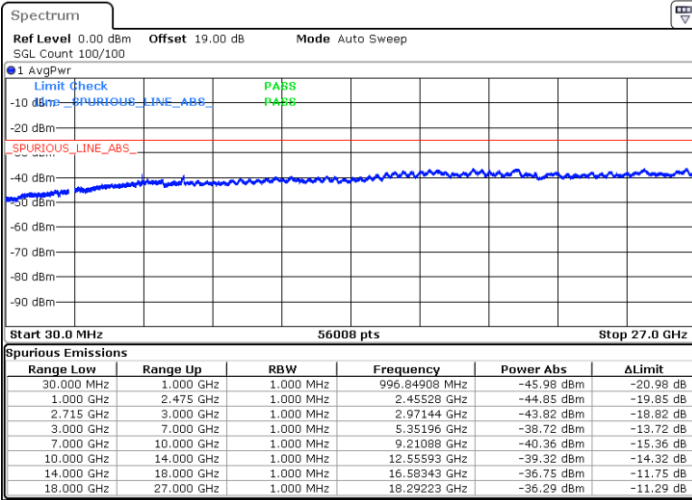
Date: 15.JAN.2020 03:52:16



LTE Band 41 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM



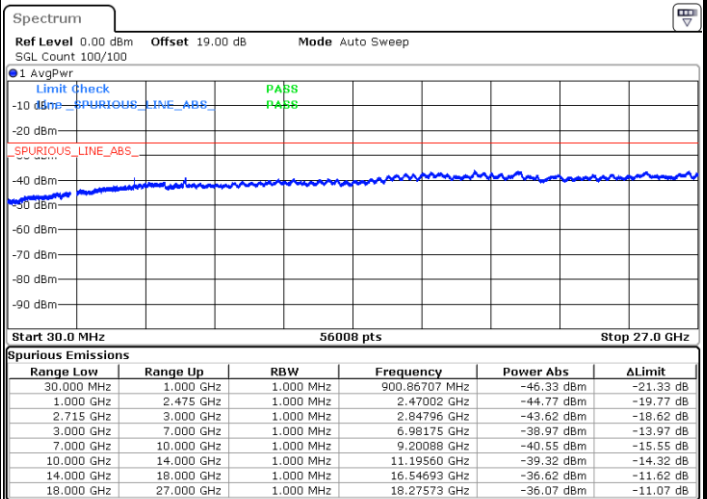
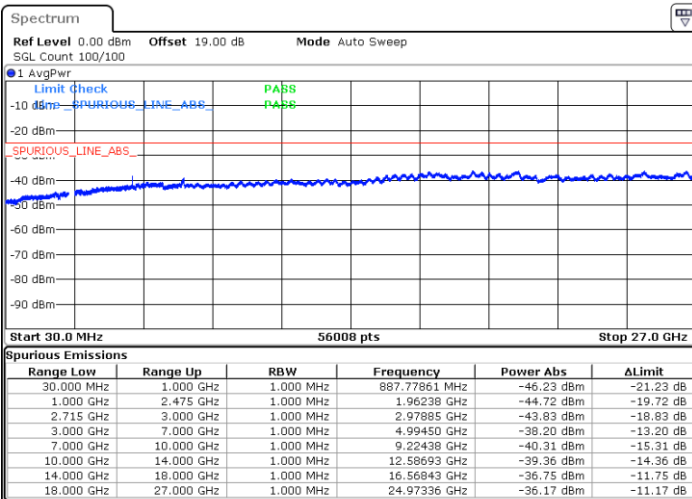
Date: 15.JAN.2020 03:53:02

Date: 15.JAN.2020 03:53:49

LTE Band 41 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 15.JAN.2020 03:59:15

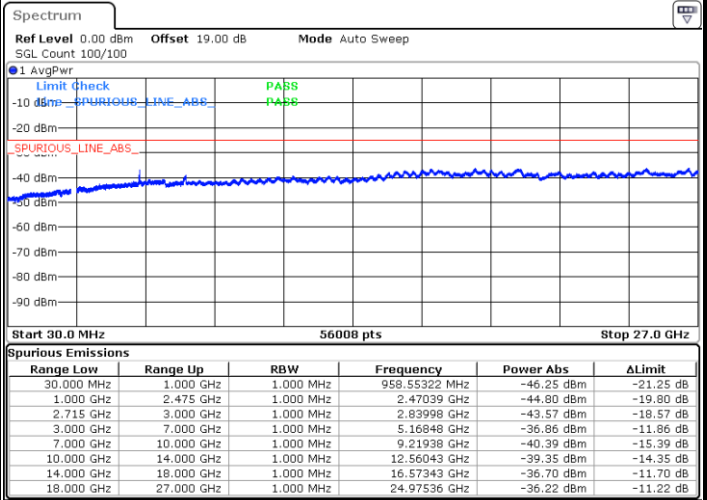
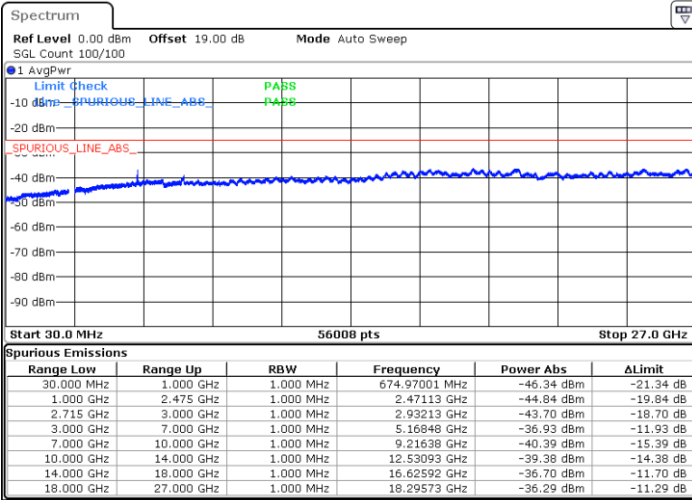
Date: 15.JAN.2020 04:00:01



LTE Band 41 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

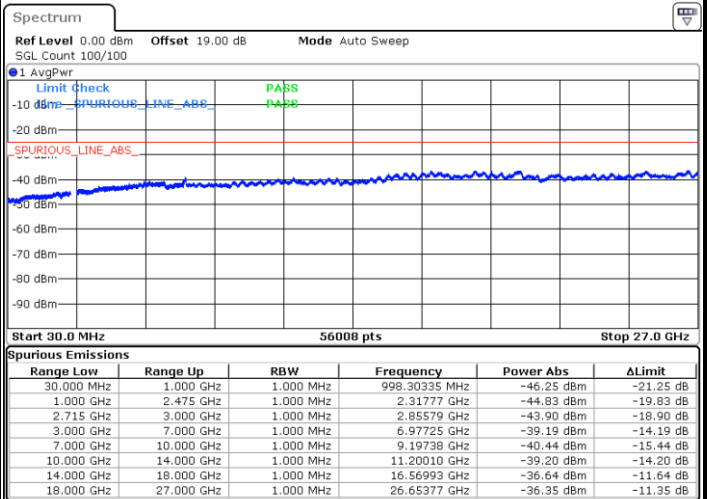
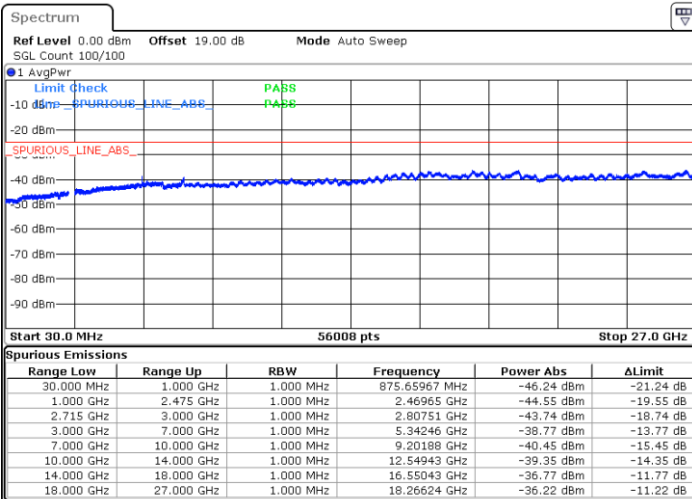


Date: 15.JAN.2020 04:00:48

Date: 15.JAN.2020 04:01:34

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 15.JAN.2020 04:02:21

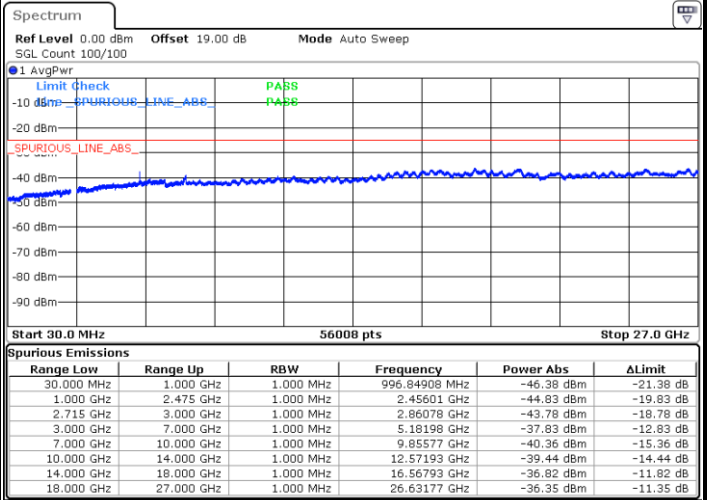
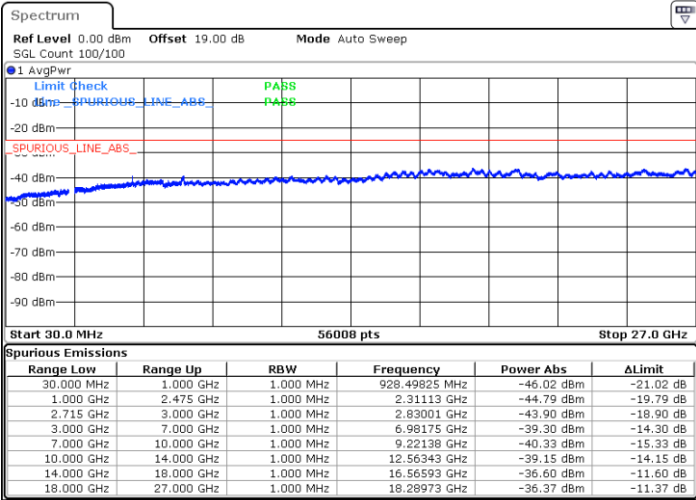
Date: 15.JAN.2020 04:03:07



LTE Band 41 / 5MHz

Lowest Channel / 64QAM

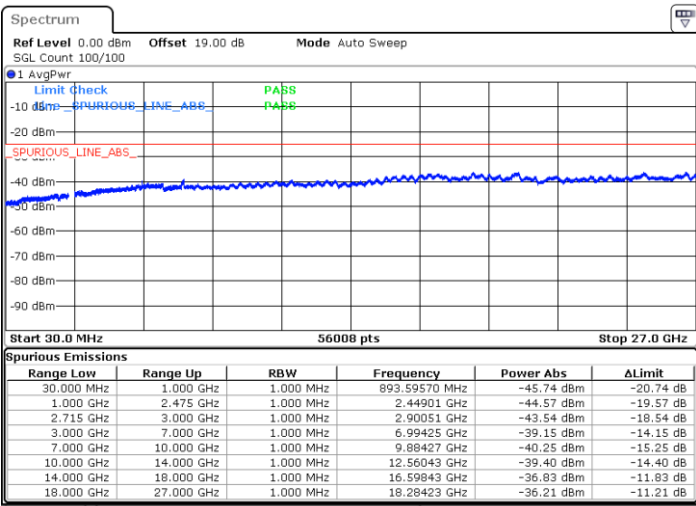
Middle Channel / 64QAM



Date: 15.JAN.2020 03:35:56

Date: 15.JAN.2020 03:36:43

Highest Channel / 64QAM



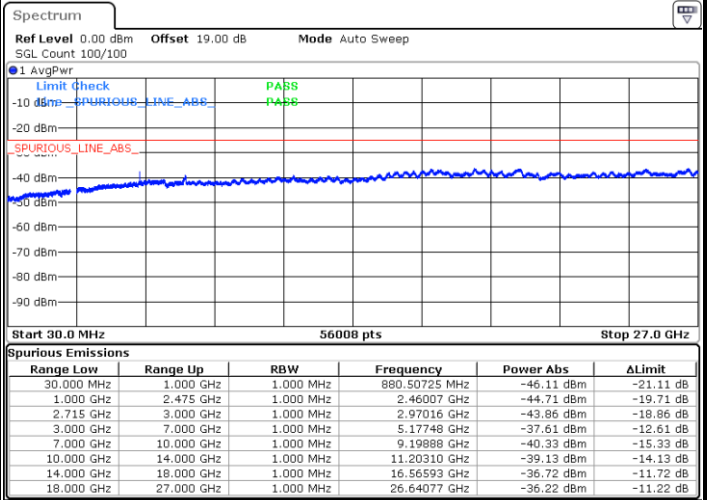
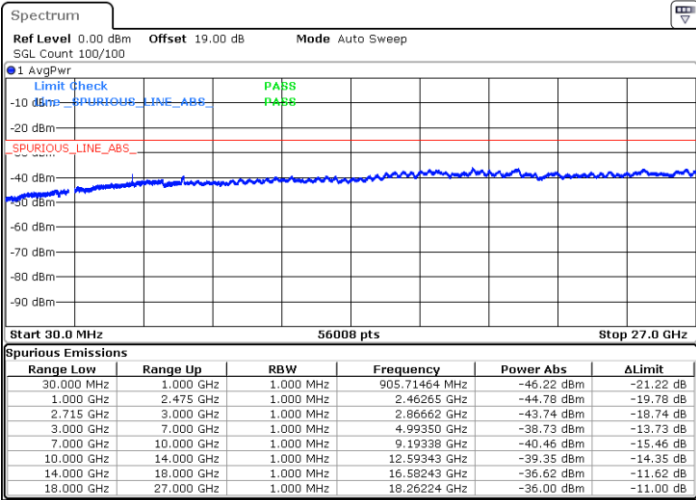
Date: 15.JAN.2020 03:37:29



LTE Band 41 / 10MHz

Lowest Channel / 64QAM

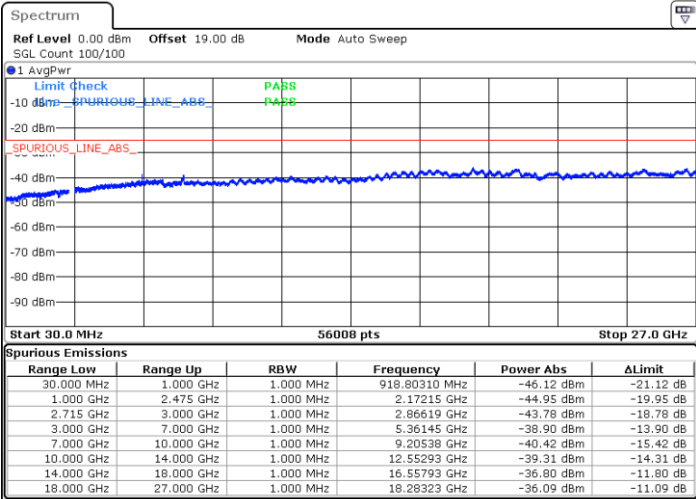
Middle Channel / 64QAM



Date: 15.JAN.2020 03:42:57

Date: 15.JAN.2020 03:43:44

Highest Channel / 64QAM



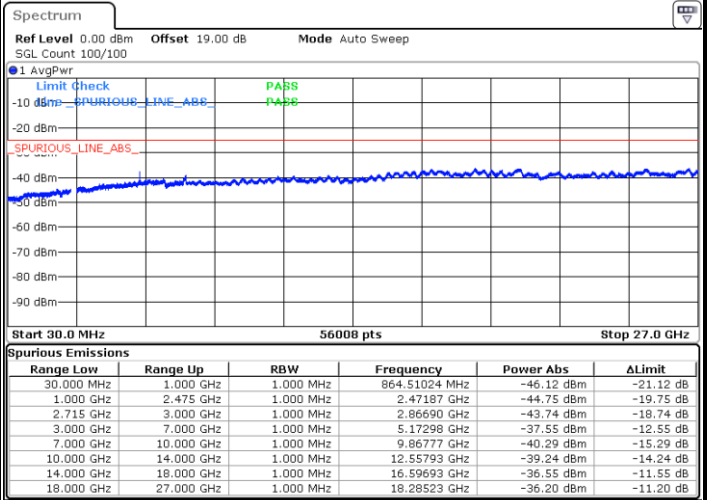
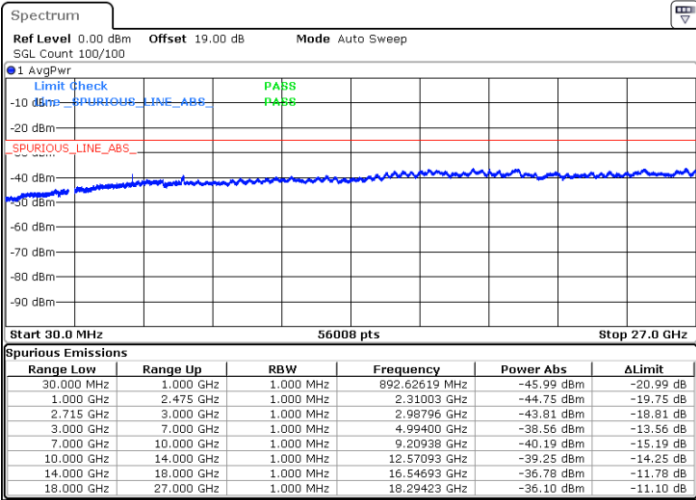
Date: 15.JAN.2020 03:44:30



LTE Band 41 / 15MHz

Lowest Channel / 64QAM

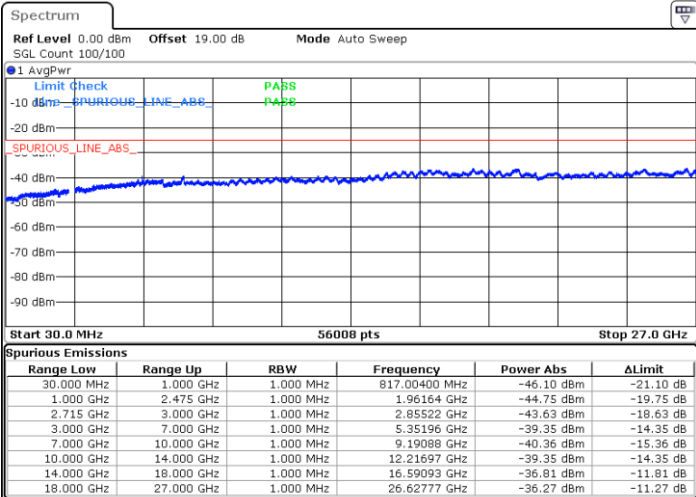
Middle Channel / 64QAM



Date: 15.JAN.2020 03:54:36

Date: 15.JAN.2020 03:55:22

Highest Channel / 64QAM



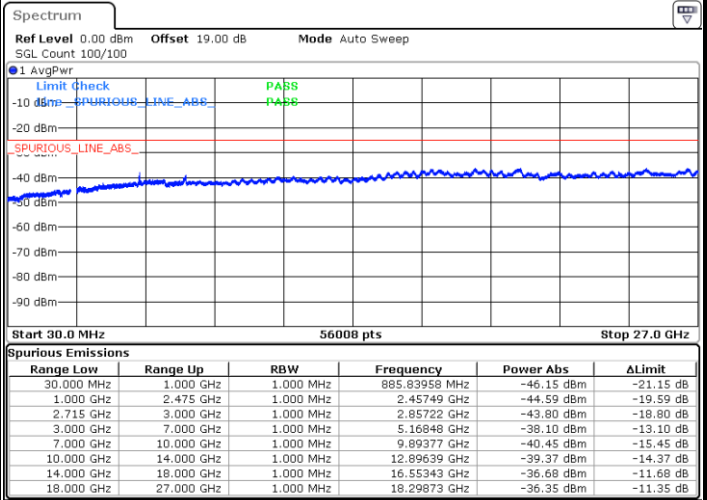
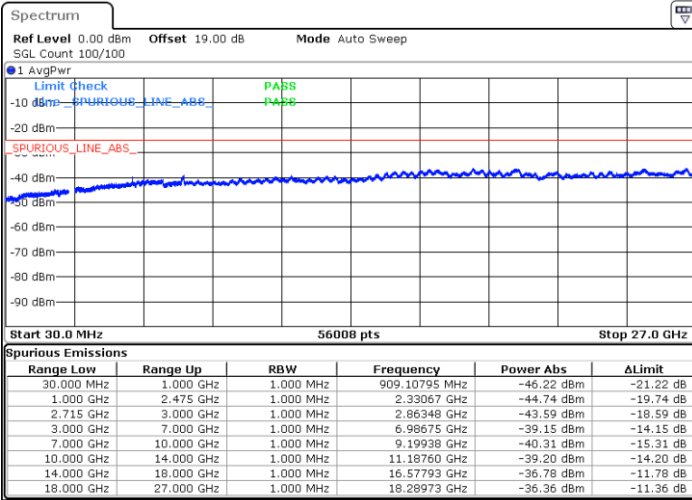
Date: 15.JAN.2020 03:56:09



LTE Band 41 / 20MHz

Lowest Channel / 64QAM

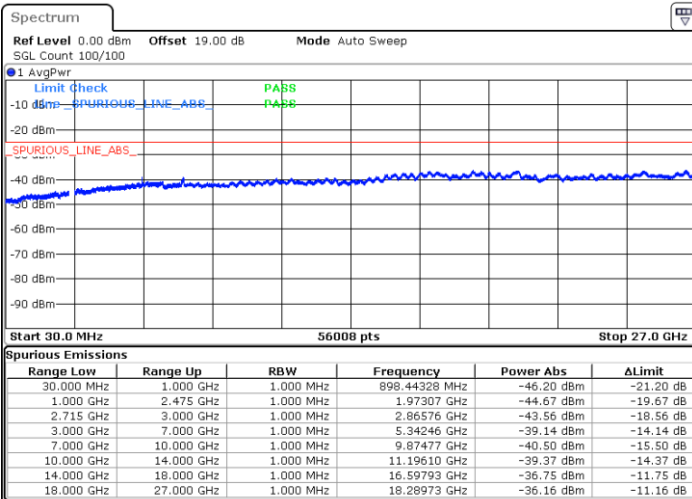
Middle Channel / 64QAM



Date: 15.JAN.2020 03:56:56

Date: 15.JAN.2020 03:57:42

Highest Channel / 64QAM



Date: 15.JAN.2020 03:58:28



Frequency Stability

Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0071	PASS
40	Normal Voltage	0.0067	
30	Normal Voltage	0.0054	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0108	
-10	Normal Voltage	0.0151	
-20	Normal Voltage	0.0057	
-30	Normal Voltage	0.0069	
20	Maximum Voltage	0.0031	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0011	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.





# LTE Band 71

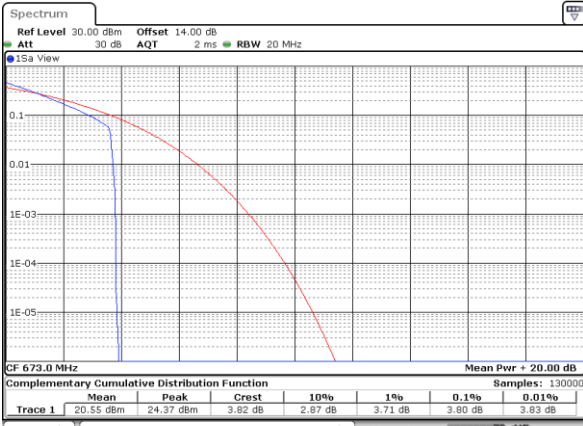
## Peak-to-Average Ratio

Mode	LTE Band 71 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.80	5.13	5.45	6.00	PASS
Middle CH	3.39	5.10	5.28	5.94	
Highest CH	3.68	5.07	5.51	6.00	
Mode	LTE Band 71 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.62	5.97	-	-	PASS
Middle CH	5.04	5.88	-	-	
Highest CH	5.57	5.91	-	-	



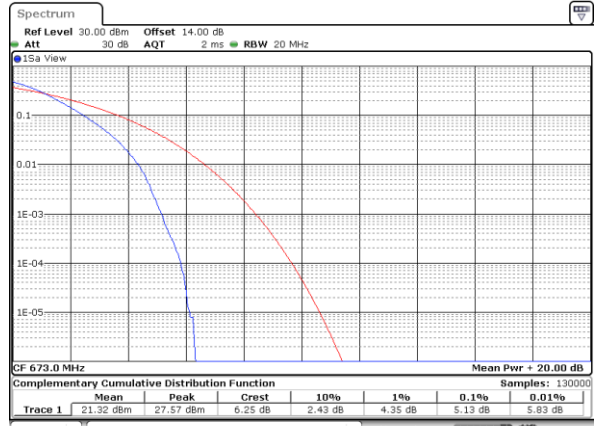
LTE Band 71 / 20MHz / QPSK

Lowest Channel / 1RB



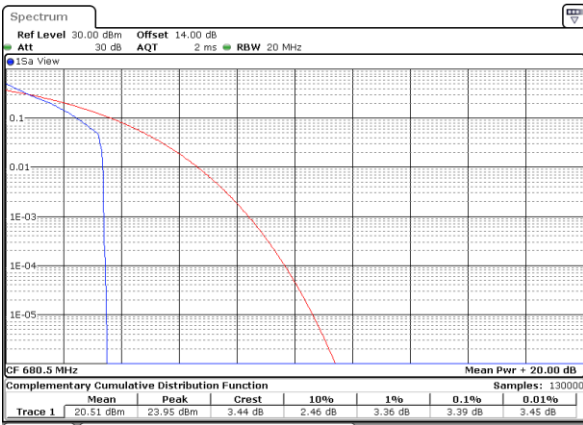
Date: 4.DEC.2019 03:39:39

Lowest Channel / Full RB



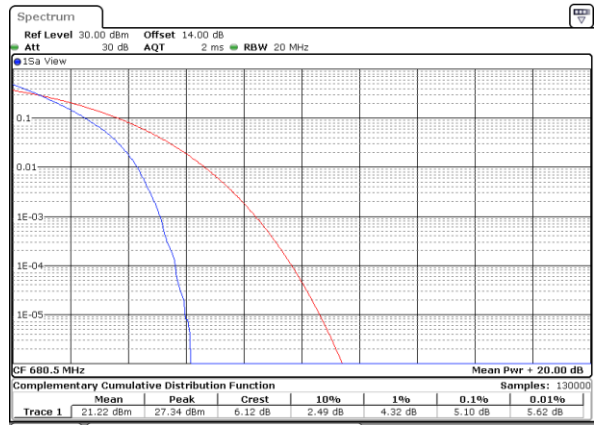
Date: 4.DEC.2019 03:41:38

Middle Channel / 1RB



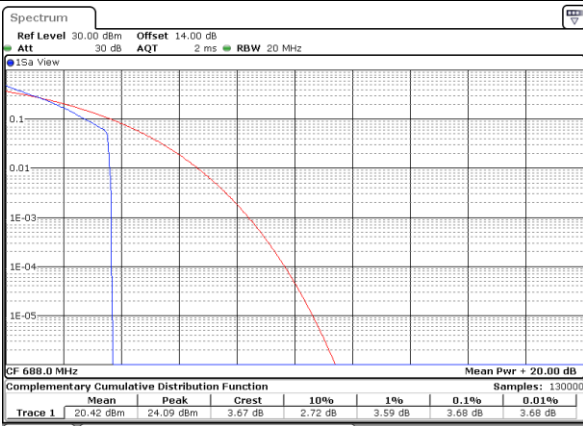
Date: 4.DEC.2019 03:38:54

Middle Channel / Full RB



Date: 4.DEC.2019 03:39:54

Highest Channel / 1RB



Date: 4.DEC.2019 03:21:02

Highest Channel / Full RB



Date: 4.DEC.2019 03:29:32



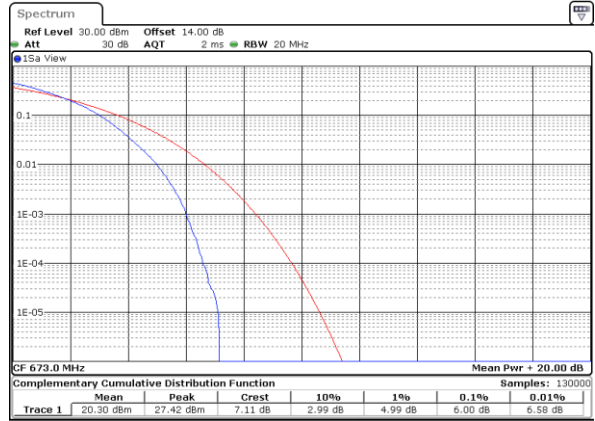
LTE Band 71 / 20MHz / 16QAM

Lowest Channel / 1RB



Date: 4.DEC.2019 03:39:58

Lowest Channel / Full RB



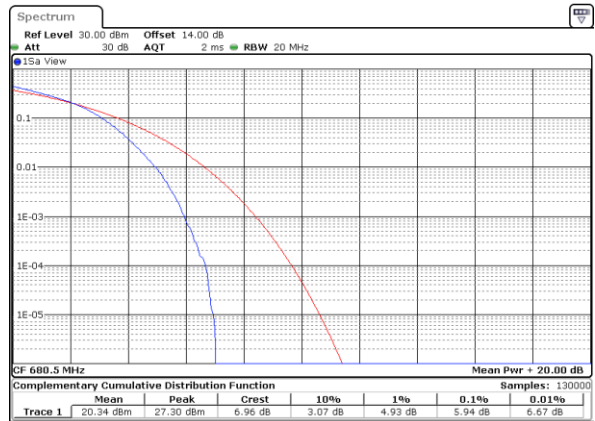
Date: 4.DEC.2019 03:41:25

Middle Channel / 1RB



Date: 4.DEC.2019 03:37:35

Middle Channel / Full RB



Date: 4.DEC.2019 03:32:04

Highest Channel / 1RB



Date: 4.DEC.2019 03:21:16

Highest Channel / Full RB

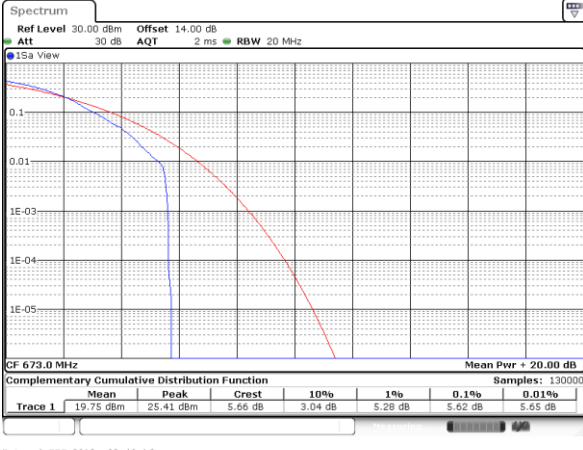


Date: 4.DEC.2019 03:25:59



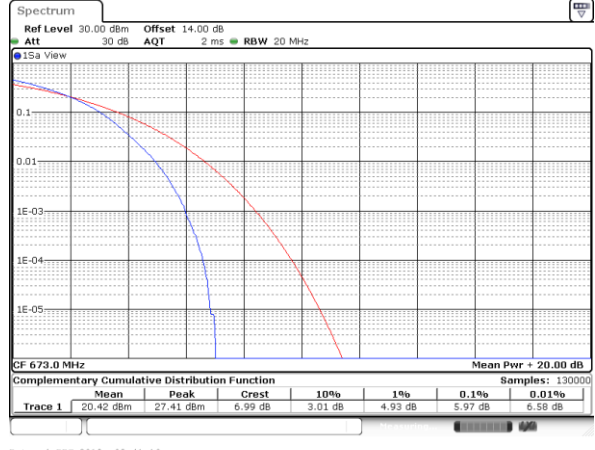
LTE Band 71 / 20MHz / 64QAM

Lowest Channel / 1RB



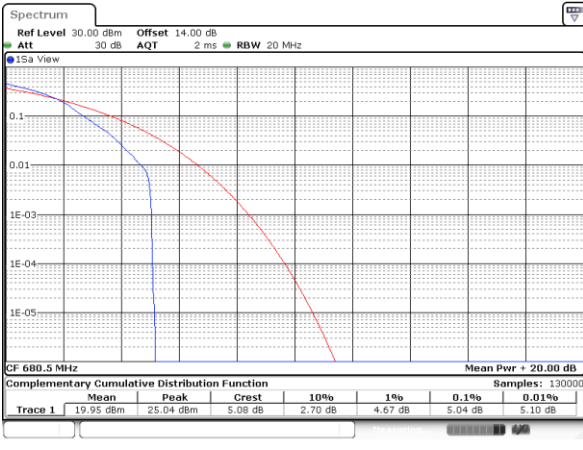
Date: 4.DEC.2019 03:40:16

Lowest Channel / Full RB



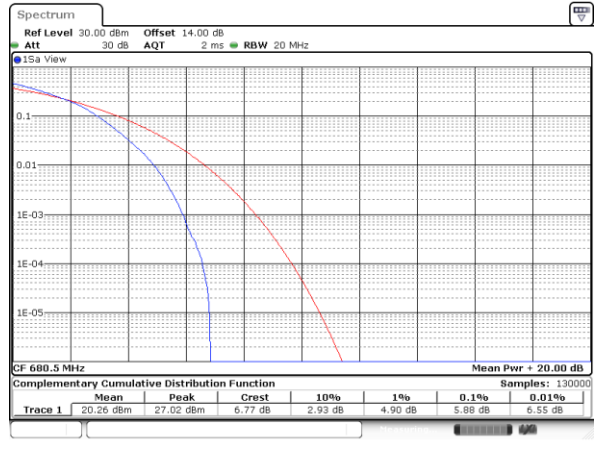
Date: 4.DEC.2019 03:41:10

Middle Channel / 1RB



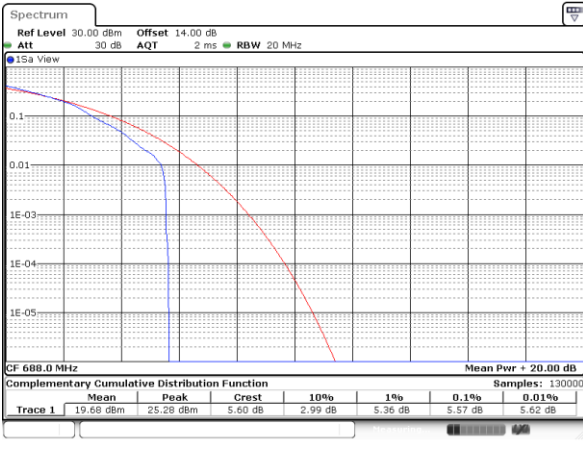
Date: 4.DEC.2019 03:34:45

Middle Channel / Full RB



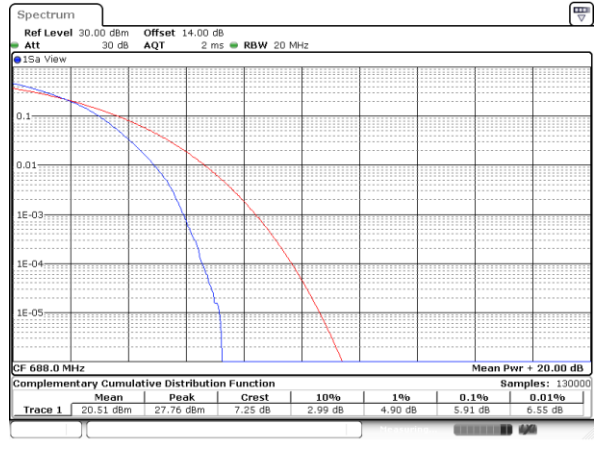
Date: 4.DEC.2019 03:33:10

Highest Channel / 1RB



Date: 4.DEC.2019 03:21:36

Highest Channel / Full RB



Date: 4.DEC.2019 03:24:06



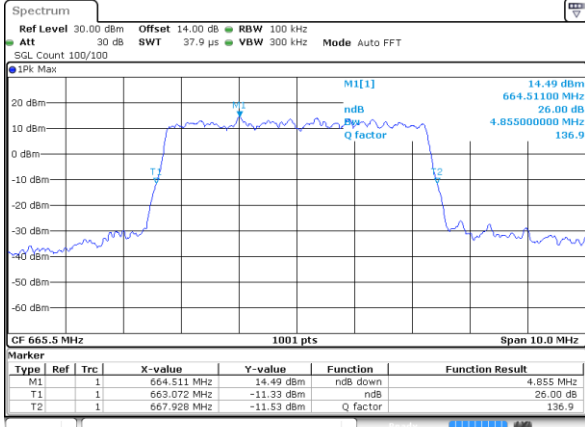
**26dB Bandwidth**

Mode	LTE Band 71 : 26dB BW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	4.855	4.875	9.83	9.75	14.326	14.535	18.781	19.181
Middle CH	4.915	4.925	9.79	9.69	14.446	14.386	19.021	18.981
Highest CH	4.835	4.875	9.71	9.65	14.595	14.476	19.061	18.861
Mode	LTE Band 71 : 26dB BW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM	
Lowest CH	4.885		9.85		14.266		18.781	
Middle CH	4.845		9.75		14.446		19.061	
Highest CH	4.915		9.77		14.476		18.941	



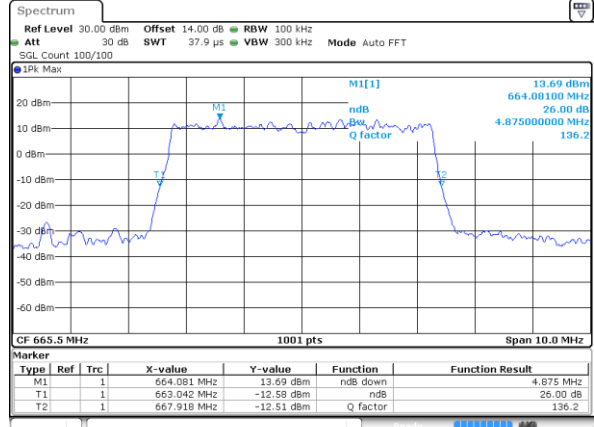
LTE Band 71

Lowest Channel / 5MHz / QPSK



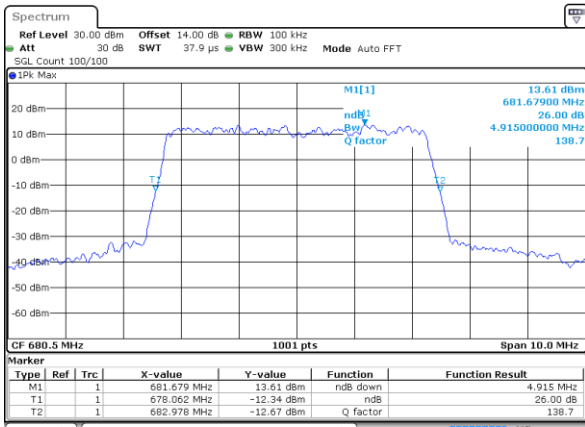
Date: 3 DEC 2019 04:59:00

Lowest Channel / 5MHz / 16QAM



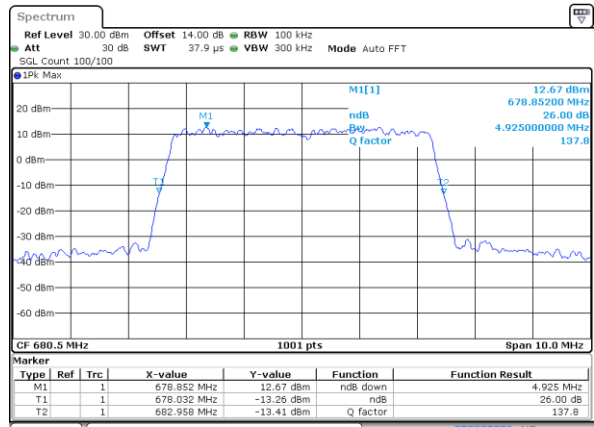
Date: 3 DEC 2019 04:57:41

Middle Channel / 5MHz / QPSK



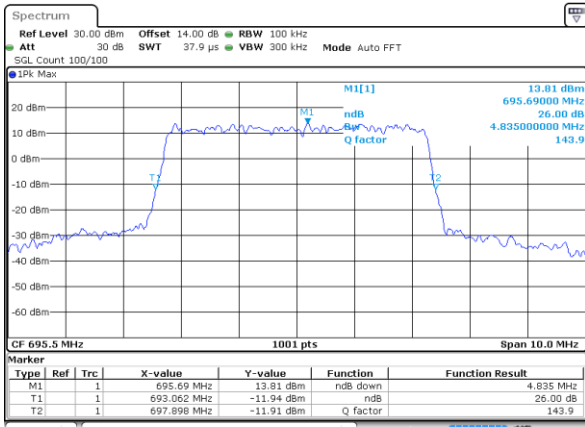
Date: 3 DEC 2019 05:54:43

Middle Channel / 5MHz / 16QAM



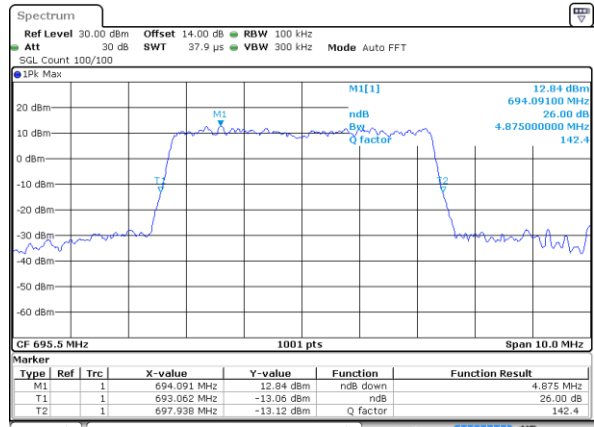
Date: 3 DEC 2019 05:55:27

Highest Channel / 5MHz / QPSK



Date: 3 DEC 2019 05:35:32

Highest Channel / 5MHz / 16QAM

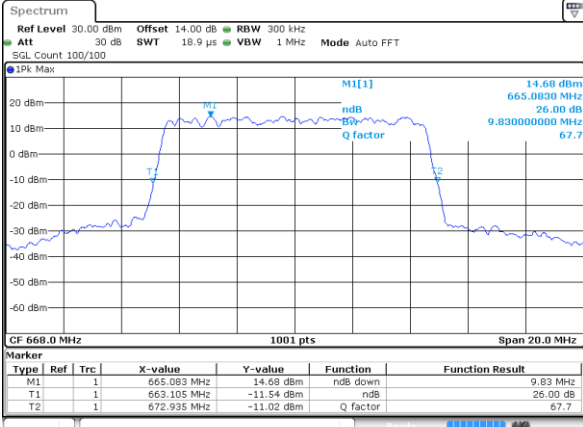


Date: 3 DEC 2019 05:34:12



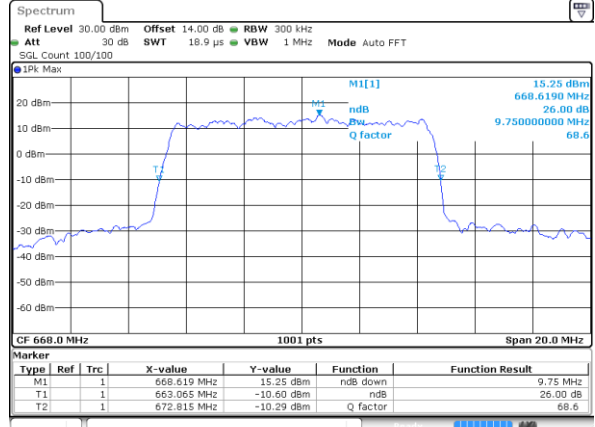
LTE Band 71

Lowest Channel / 10MHz / QPSK



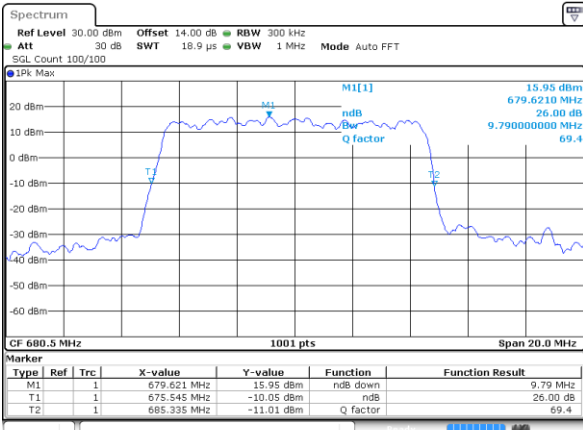
Date: 3 DEC 2019 08:38:58

Lowest Channel / 10MHz / 16QAM



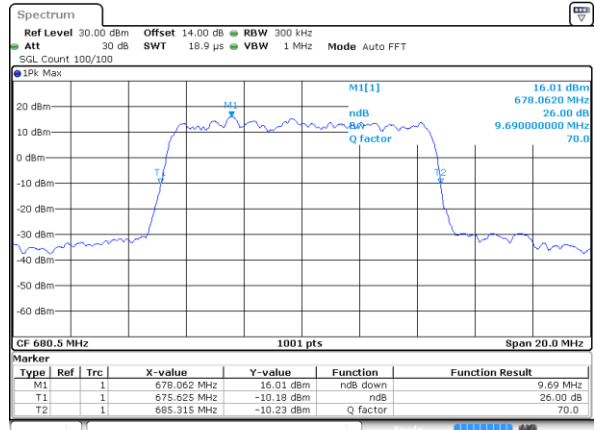
Date: 3 DEC 2019 06:41:39

Middle Channel / 10MHz / QPSK



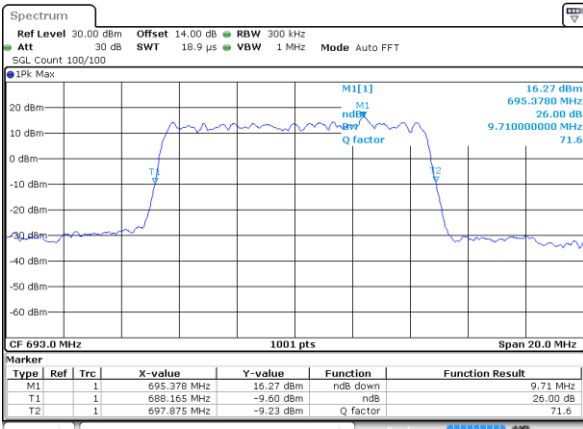
Date: 3 DEC 2019 06:00:04

Middle Channel / 10MHz / 16QAM



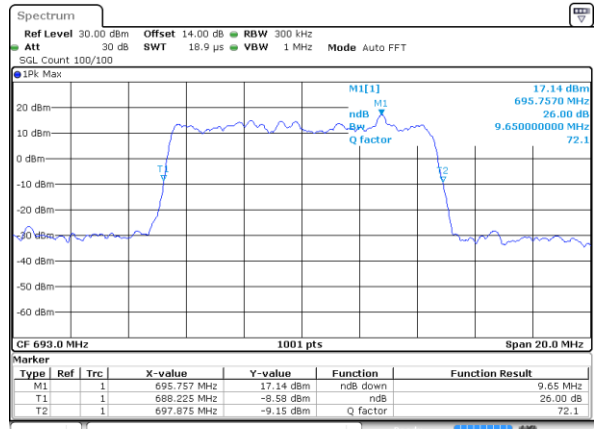
Date: 3 DEC 2019 05:59:44

Highest Channel / 10MHz / QPSK



Date: 3 DEC 2019 06:47:17

Highest Channel / 10MHz / 16QAM

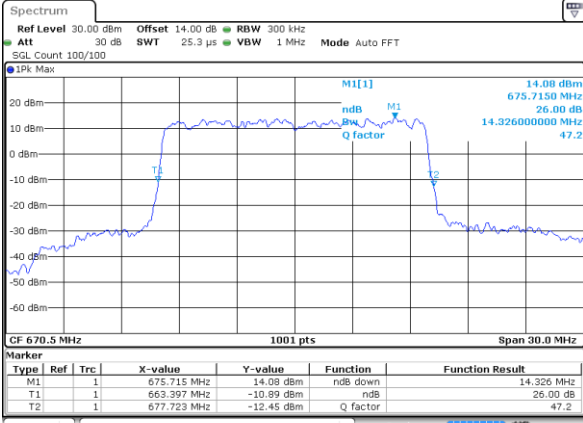


Date: 3 DEC 2019 06:45:40



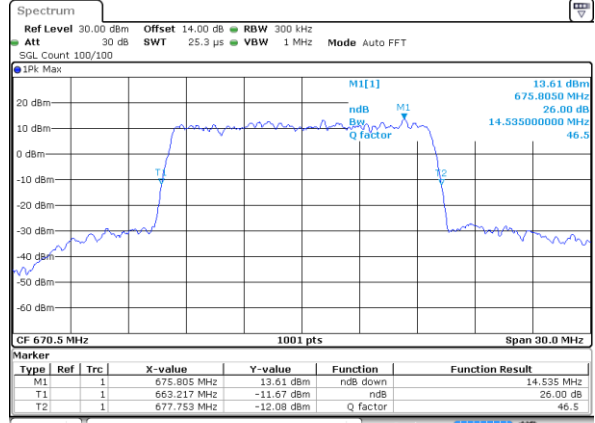
LTE Band 71

Lowest Channel / 15MHz / QPSK



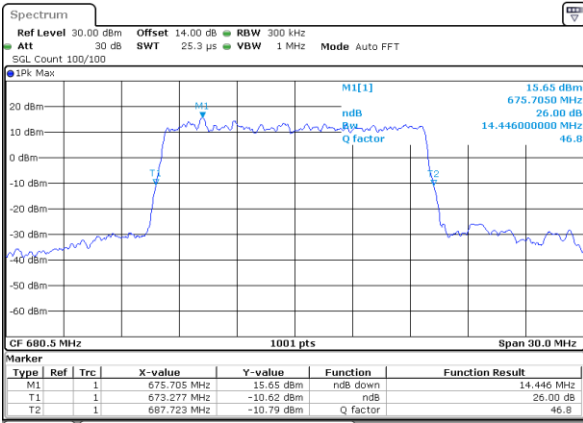
Date: 3 DEC 2019 07:18:37

Lowest Channel / 15MHz / 16QAM



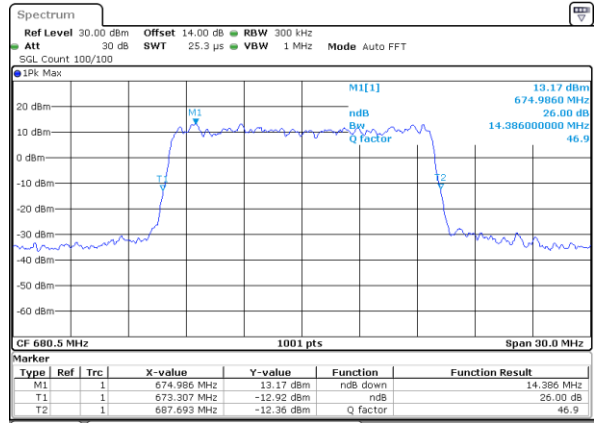
Date: 3 DEC 2019 07:17:41

Middle Channel / 15MHz / QPSK



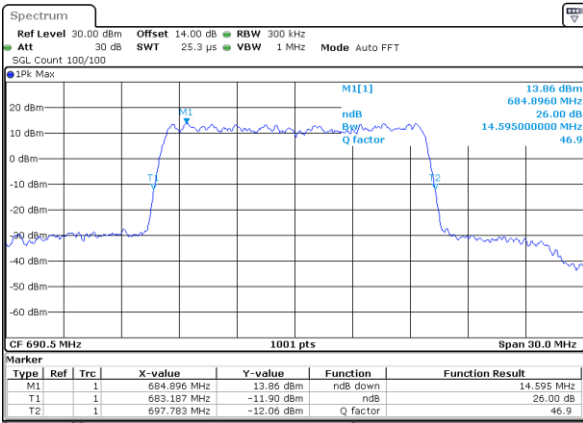
Date: 3 DEC 2019 07:32:34

Middle Channel / 15MHz / 16QAM



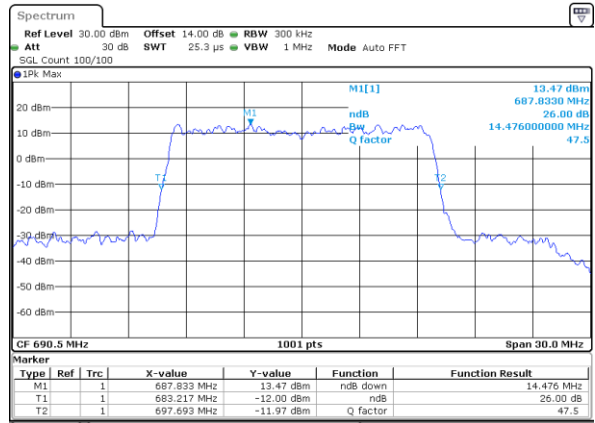
Date: 3 DEC 2019 07:06:42

Highest Channel / 15MHz / QPSK



Date: 3 DEC 2019 07:19:50

Highest Channel / 15MHz / 16QAM



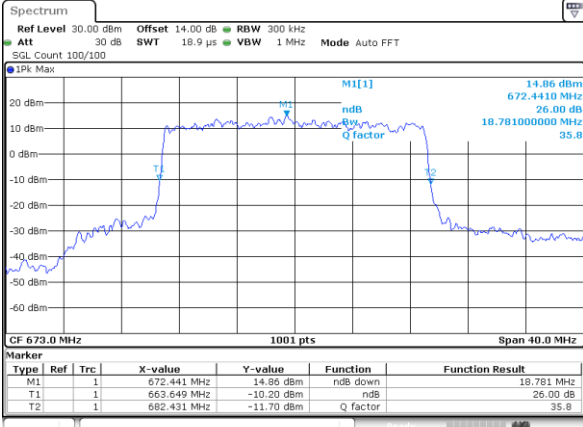
Date: 3 DEC 2019 07:20:45





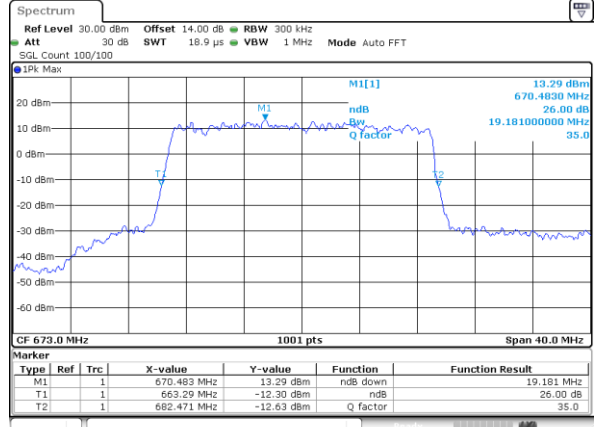
LTE Band 71

Lowest Channel / 20MHz / QPSK



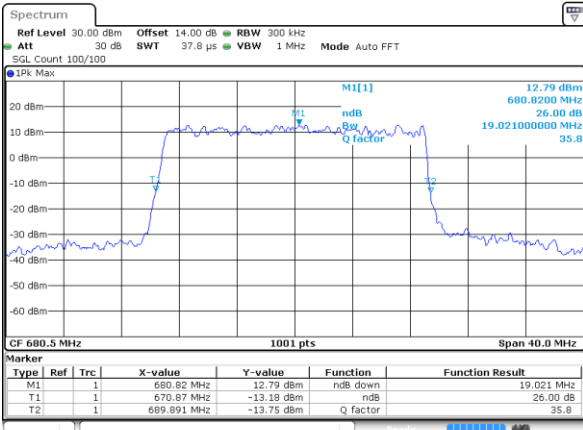
Date: 4.DEC.2019 02:33:00

Lowest Channel / 20MHz / 16QAM



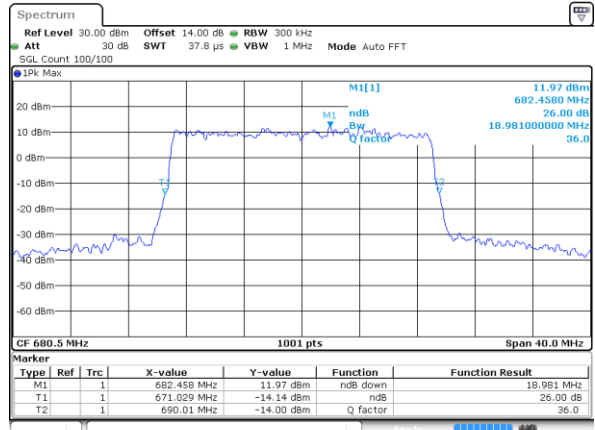
Date: 4.DEC.2019 02:34:34

Middle Channel / 20MHz / QPSK



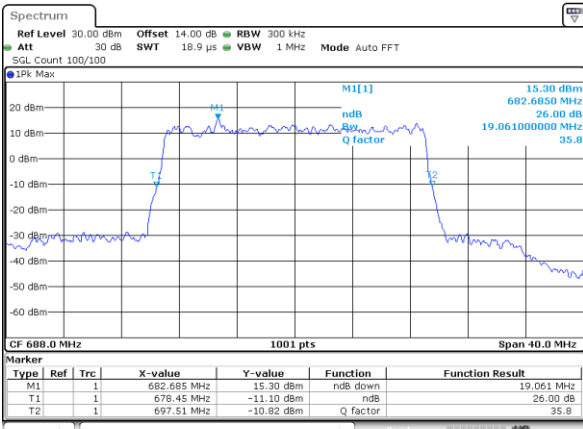
Date: 3.DEC.2019 07:34:22

Middle Channel / 20MHz / 16QAM



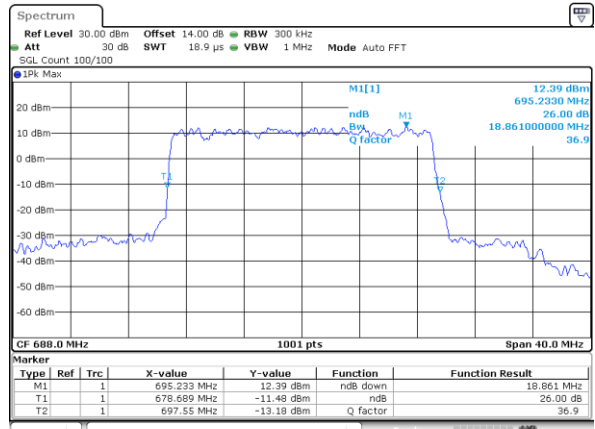
Date: 3.DEC.2019 07:34:40

Highest Channel / 20MHz / QPSK



Date: 4.DEC.2019 02:41:01

Highest Channel / 20MHz / 16QAM

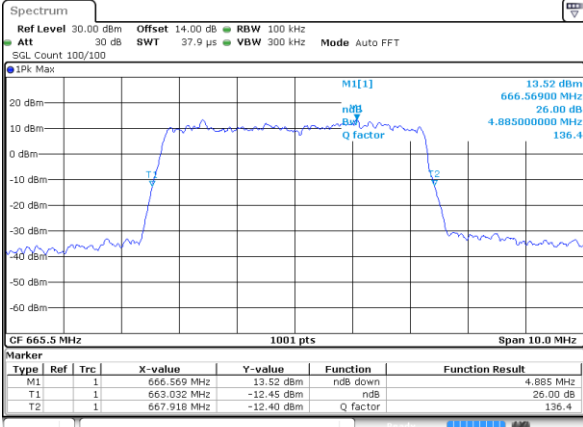


Date: 4.DEC.2019 02:39:16



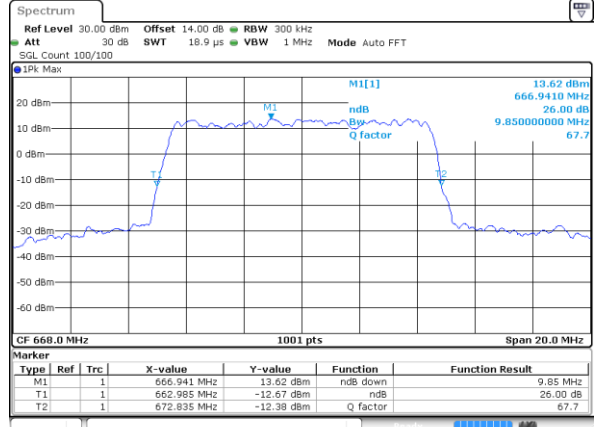
LTE Band 71

Lowest Channel / 5MHz / 64QAM



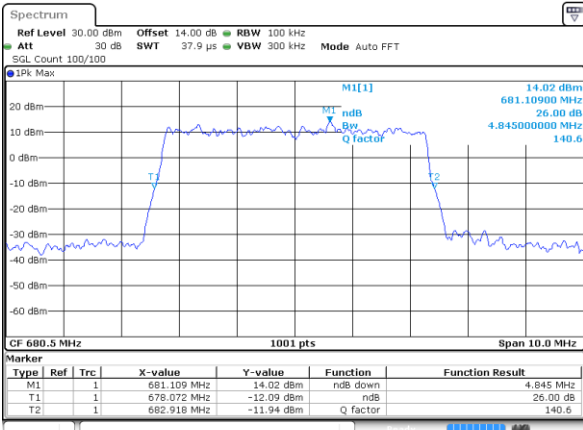
Date: 3 DEC 2019 05:30:09

Lowest Channel / 10MHz / 64QAM



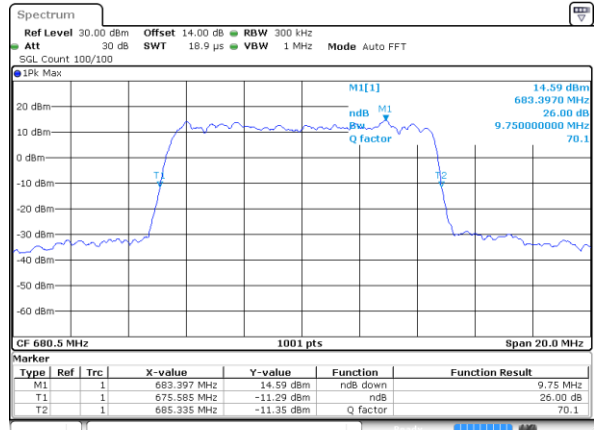
Date: 3 DEC 2019 06:43:01

Middle Channel / 5MHz / 64QAM



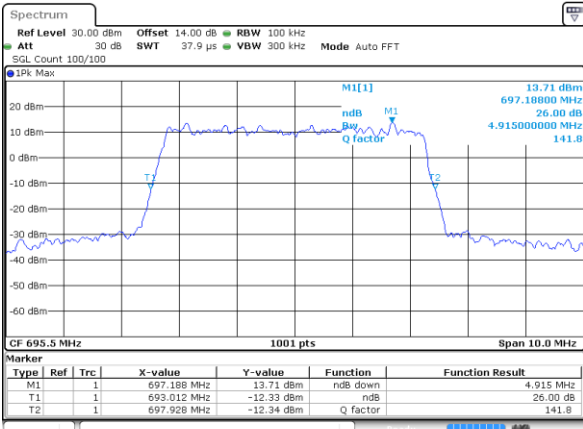
Date: 3 DEC 2019 05:56:22

Middle Channel / 10MHz / 64QAM



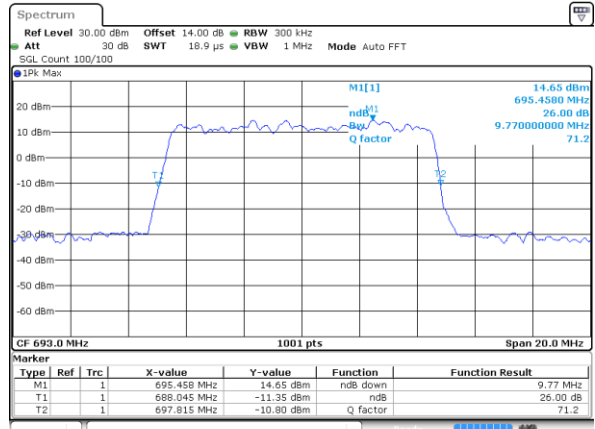
Date: 3 DEC 2019 05:59:23

Highest Channel / 5MHz / 64QAM



Date: 3 DEC 2019 05:38:34

Highest Channel / 10MHz / 64QAM

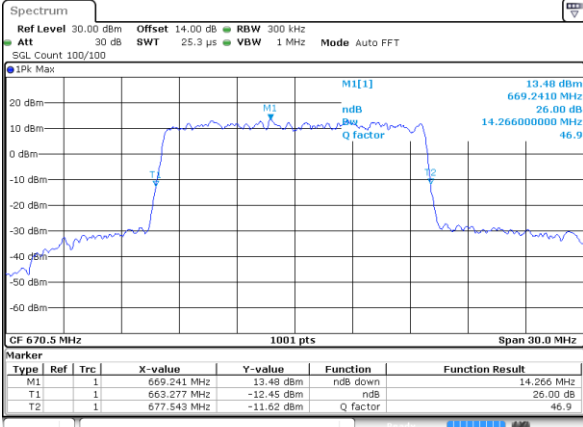


Date: 3 DEC 2019 06:44:46



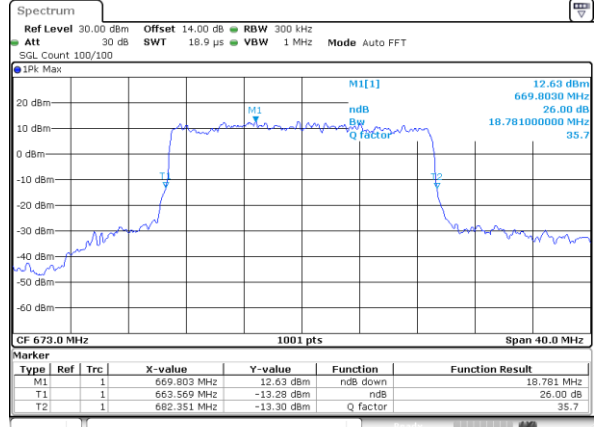
LTE Band 71

Lowest Channel / 15MHz / 64QAM



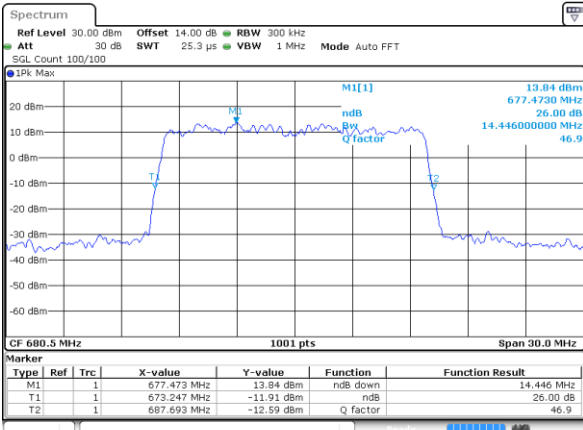
Date: 3 DEC 2019 07:16:45

Lowest Channel / 20MHz / 64QAM



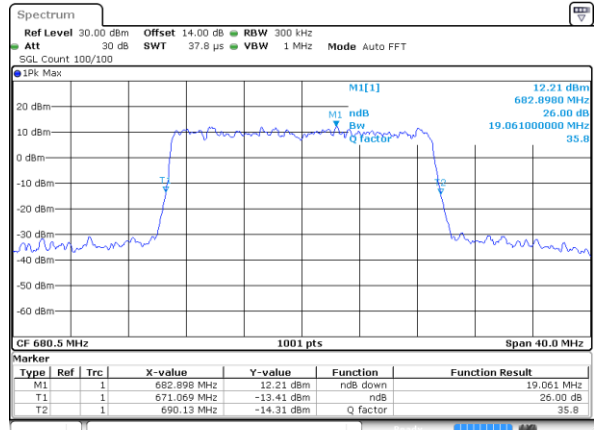
Date: 4 DEC 2019 02:36:05

Middle Channel / 15MHz / 64QAM



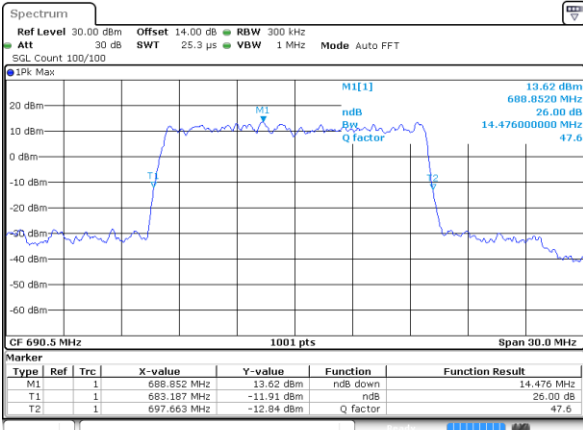
Date: 3 DEC 2019 07:07:05

Middle Channel / 20MHz / 64QAM



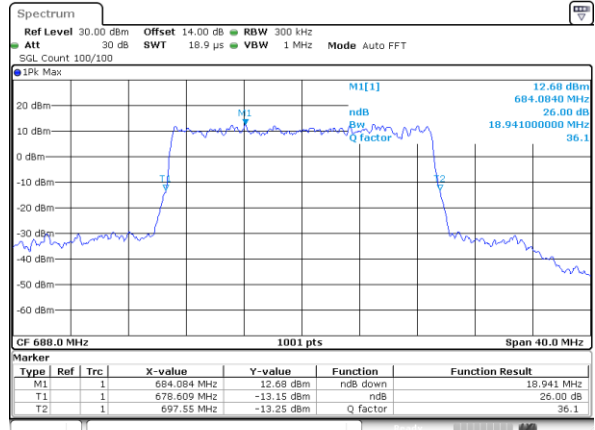
Date: 3 DEC 2019 07:35:05

Highest Channel / 15MHz / 64QAM



Date: 3 DEC 2019 07:21:40

Highest Channel / 20MHz / 64QAM



Date: 4 DEC 2019 02:37:34



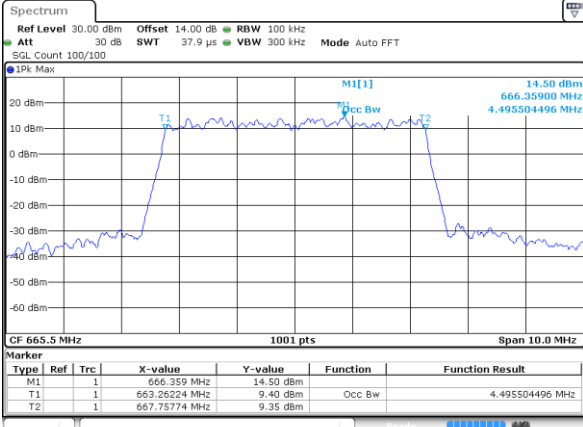
Occupied Bandwidth

Mode	LTE Band 71 : 99%OBW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	4.50	4.49	8.99	9.05	13.40	13.37	17.94	17.86
Middle CH	4.48	4.51	9.03	8.97	13.43	13.43	17.82	17.86
Highest CH	4.51	4.51	9.01	8.99	13.49	13.43	17.86	17.90
Mode	LTE Band 71 : 99%OBW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM	
Lowest CH	4.49		9.01		13.43		17.82	
Middle CH	4.50		9.03		13.46		17.86	
Highest CH	4.49		8.99		13.49		17.82	



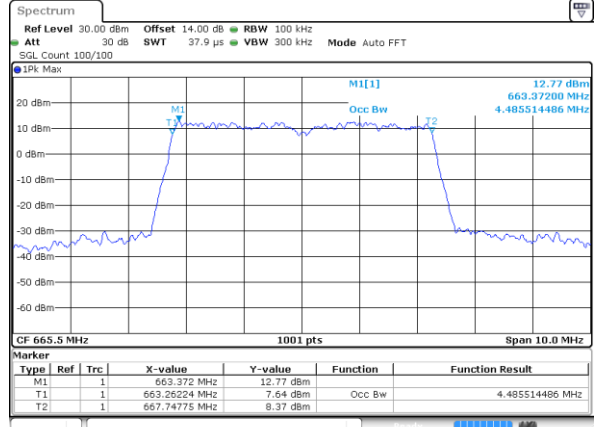
LTE Band 71

Lowest Channel / 5MHz / QPSK



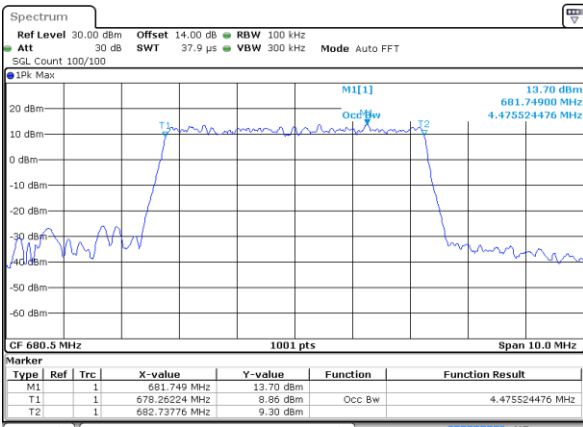
Date: 3 DEC 2019 04:48:52

Lowest Channel / 5MHz / 16QAM



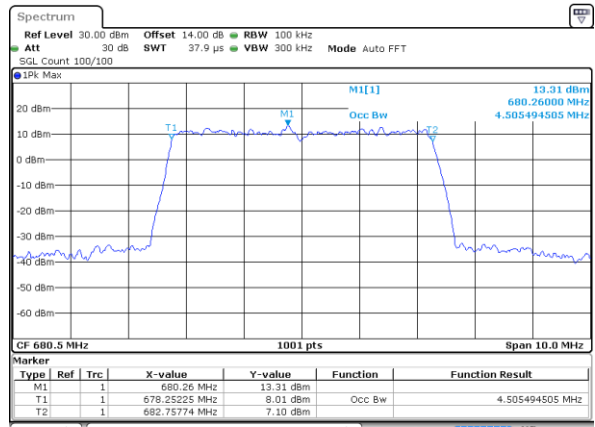
Date: 3 DEC 2019 04:50:26

Middle Channel / 5MHz / QPSK



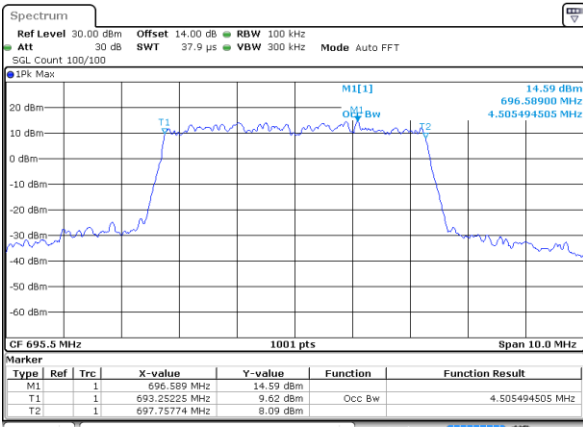
Date: 3 DEC 2019 05:54:32

Middle Channel / 5MHz / 16QAM



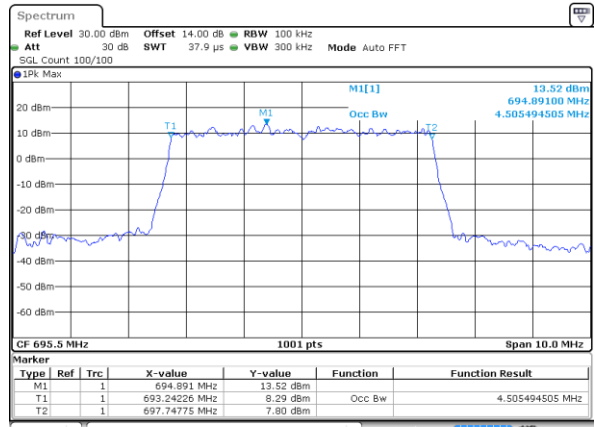
Date: 3 DEC 2019 05:55:00

Highest Channel / 5MHz / QPSK



Date: 3 DEC 2019 05:35:24

Highest Channel / 5MHz / 16QAM

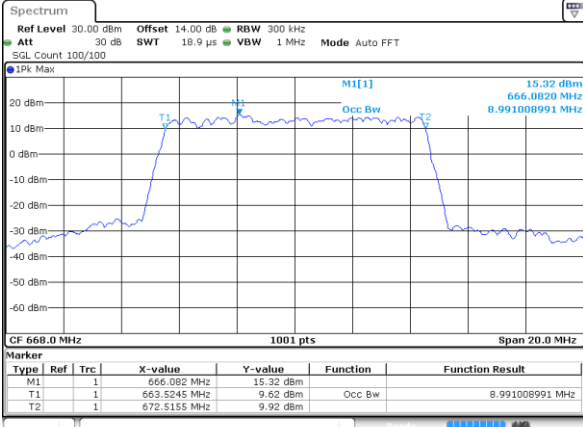


Date: 3 DEC 2019 05:34:04



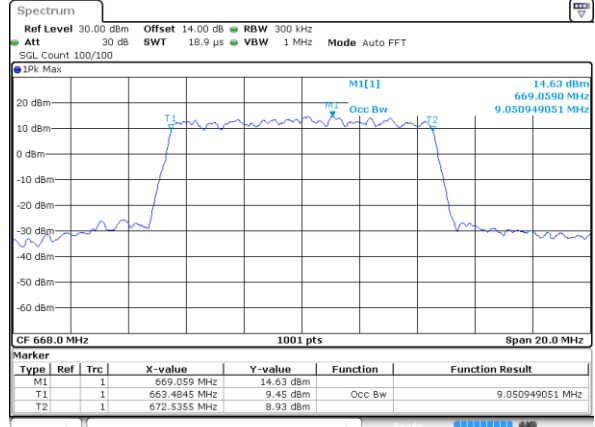
LTE Band 71

Lowest Channel / 10MHz / QPSK



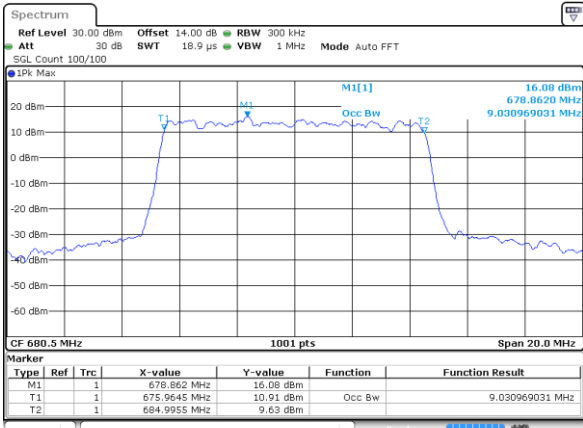
Date: 3 DEC 2019 08:38:01

Lowest Channel / 10MHz / 16QAM



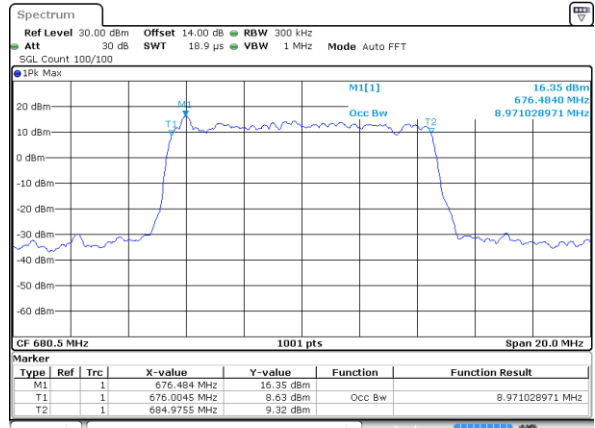
Date: 3 DEC 2019 06:41:32

Middle Channel / 10MHz / QPSK



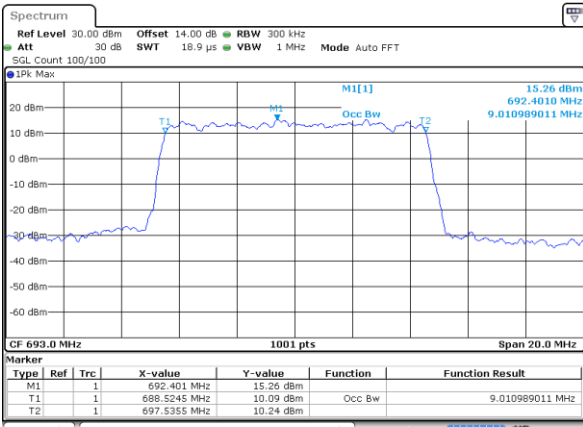
Date: 3 DEC 2019 07:05:52

Middle Channel / 10MHz / 16QAM



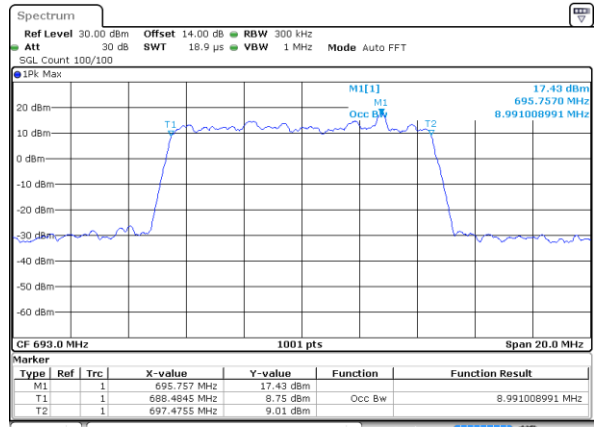
Date: 3 DEC 2019 05:59:36

Highest Channel / 10MHz / QPSK



Date: 3 DEC 2019 06:47:11

Highest Channel / 10MHz / 16QAM

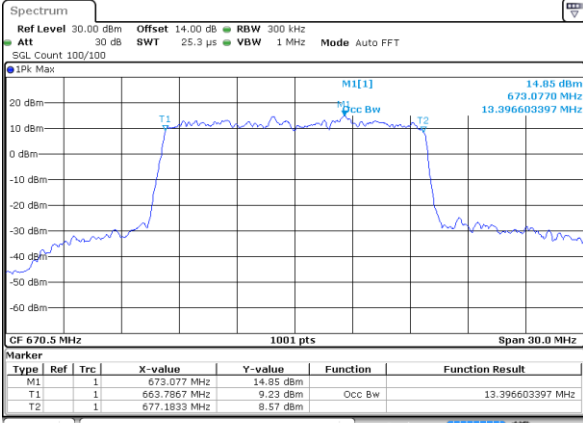


Date: 3 DEC 2019 06:45:34



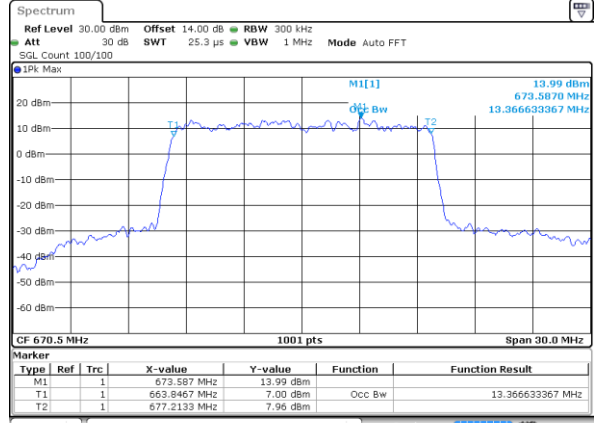
LTE Band 71

Lowest Channel / 15MHz / QPSK



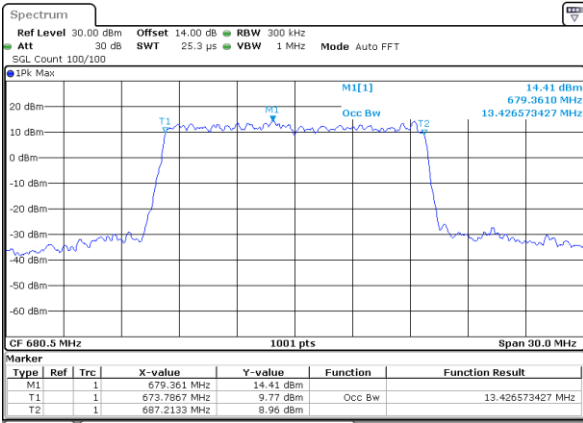
Date: 3.DEC.2019 07:18:31

Lowest Channel / 15MHz / 16QAM



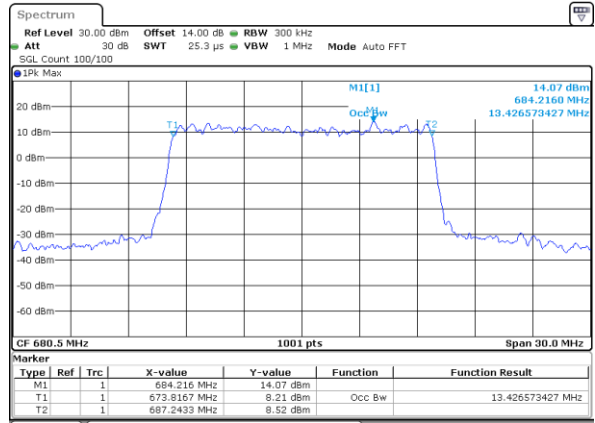
Date: 3.DEC.2019 07:17:35

Middle Channel / 15MHz / QPSK



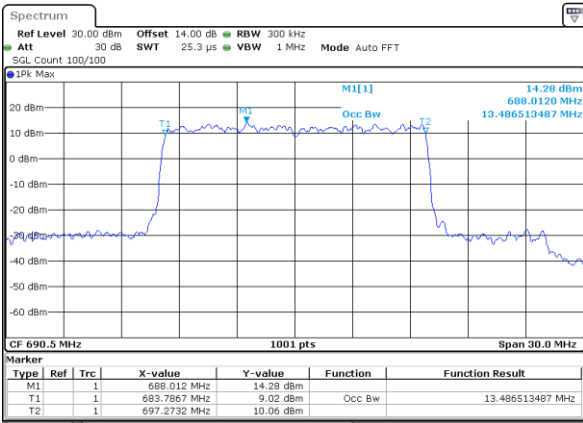
Date: 3.DEC.2019 07:32:26

Middle Channel / 15MHz / 16QAM



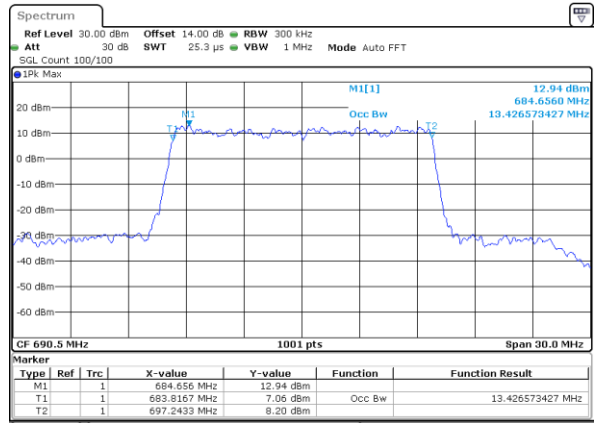
Date: 3.DEC.2019 07:32:50

Highest Channel / 15MHz / QPSK



Date: 3.DEC.2019 07:19:43

Highest Channel / 15MHz / 16QAM

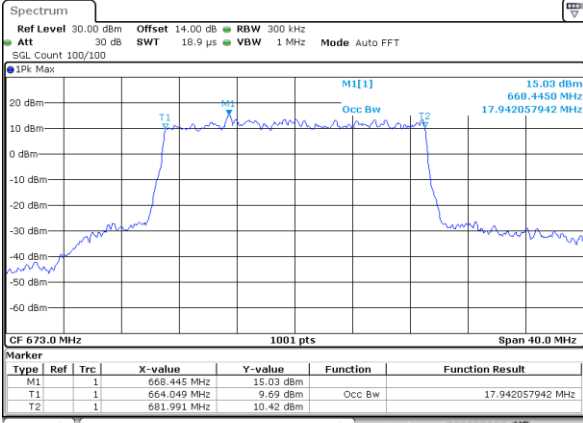


Date: 3.DEC.2019 07:20:38



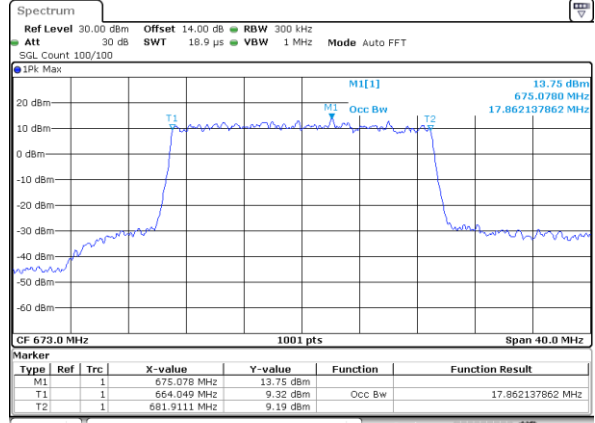
LTE Band 71

Lowest Channel / 20MHz / QPSK



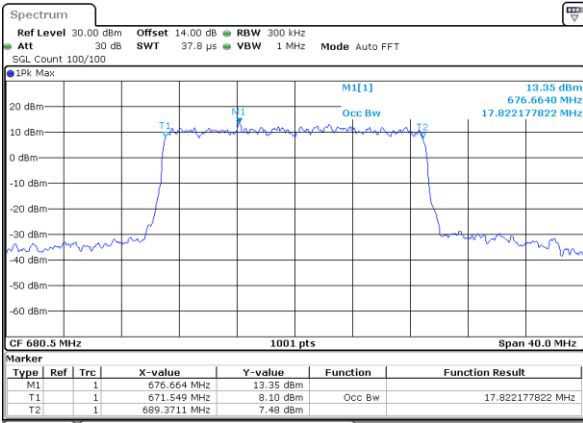
Date: 4.DEC.2019 02:32:52

Lowest Channel / 20MHz / 16QAM



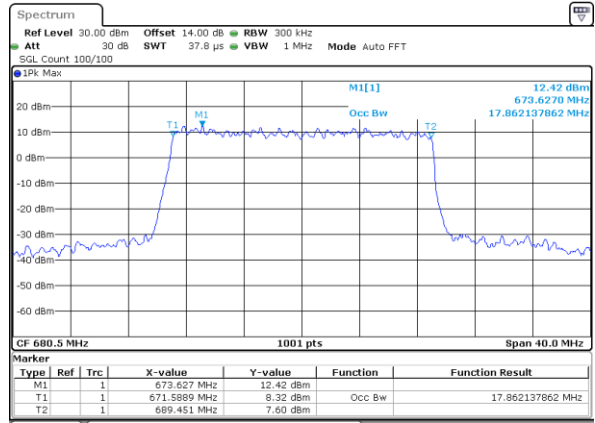
Date: 4.DEC.2019 02:34:21

Middle Channel / 20MHz / QPSK



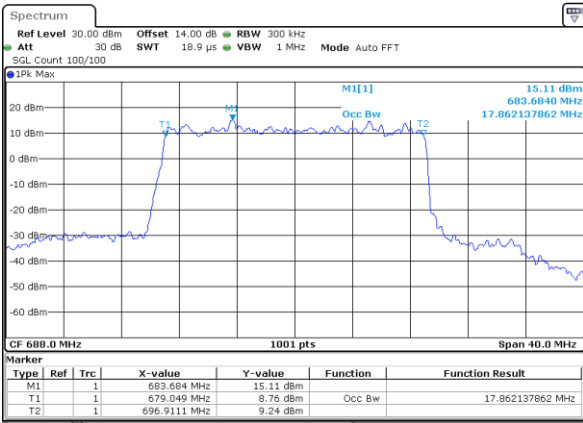
Date: 3.DEC.2019 07:34:10

Middle Channel / 20MHz / 16QAM



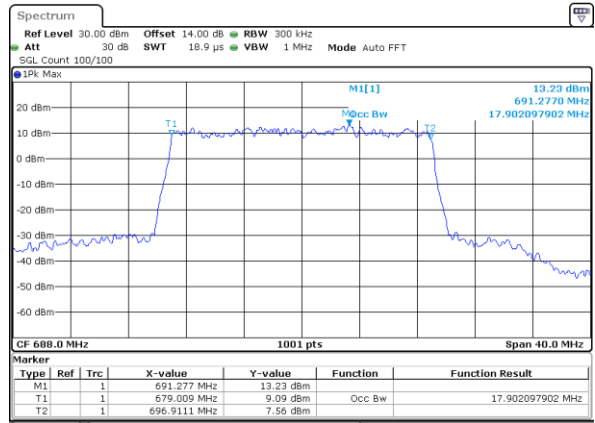
Date: 3.DEC.2019 07:34:34

Highest Channel / 20MHz / QPSK



Date: 4.DEC.2019 02:40:28

Highest Channel / 20MHz / 16QAM



Date: 4.DEC.2019 02:39:00