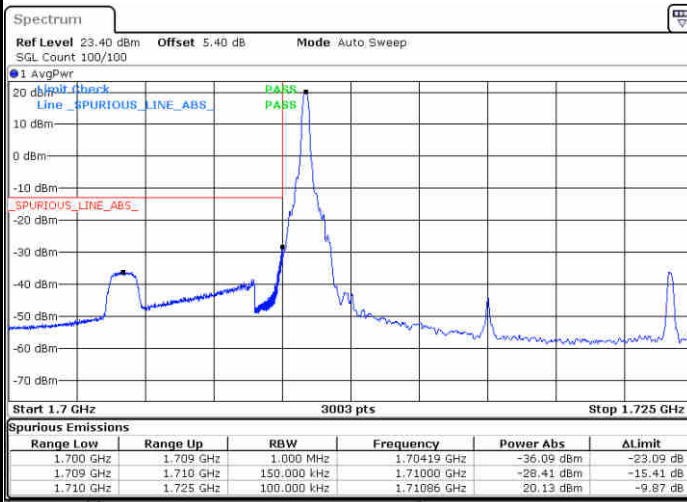




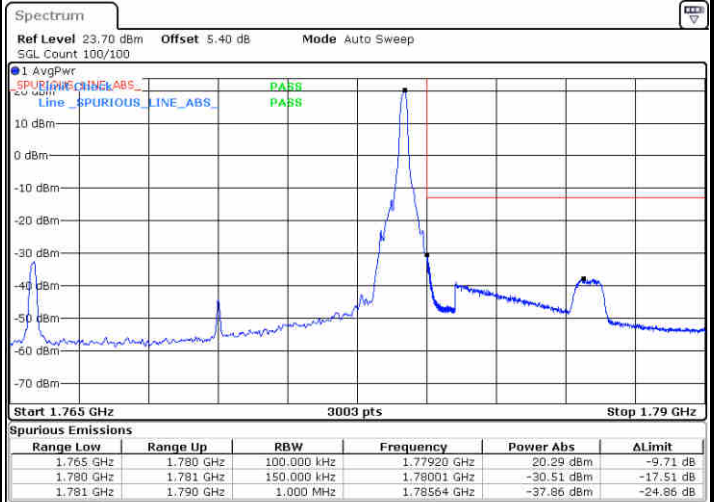
LTE Band 66 / 15MHz / QPSK

Lowest Band Edge / 1 RB



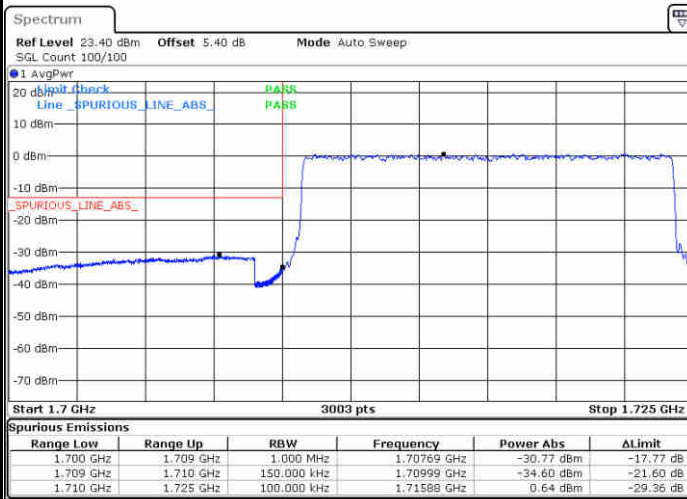
Date: 14.FEB.2020 17:53:14

Highest Band Edge / 1 RB



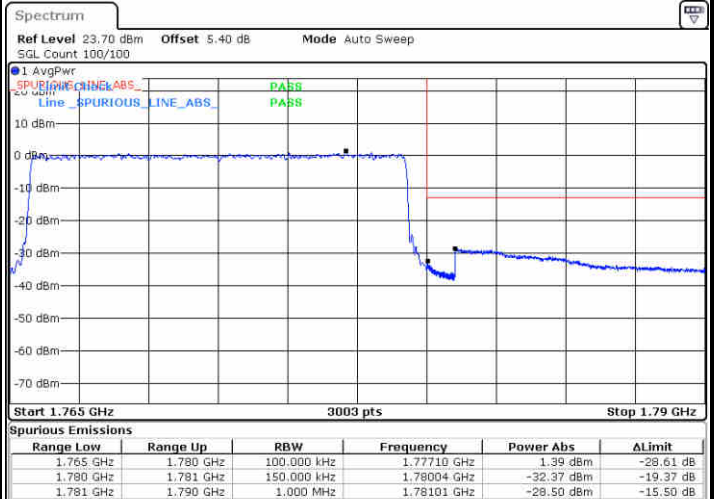
Date: 14.FEB.2020 17:56:34

Lowest Band Edge / Full RB



Date: 14.FEB.2020 17:54:58

Highest Band Edge / Full RB

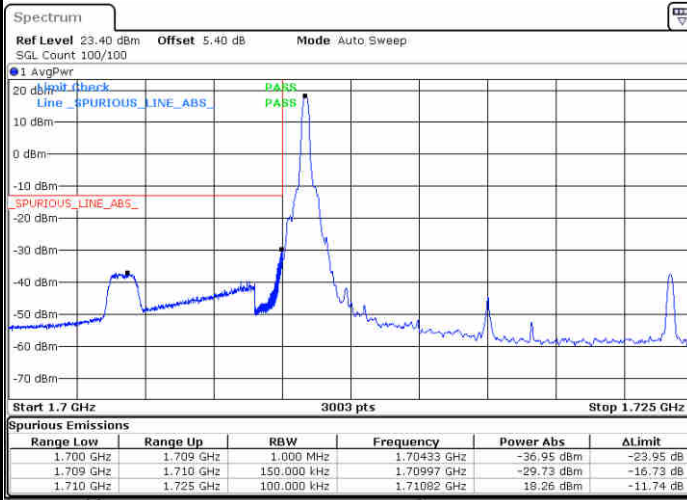


Date: 14.FEB.2020 17:57:34



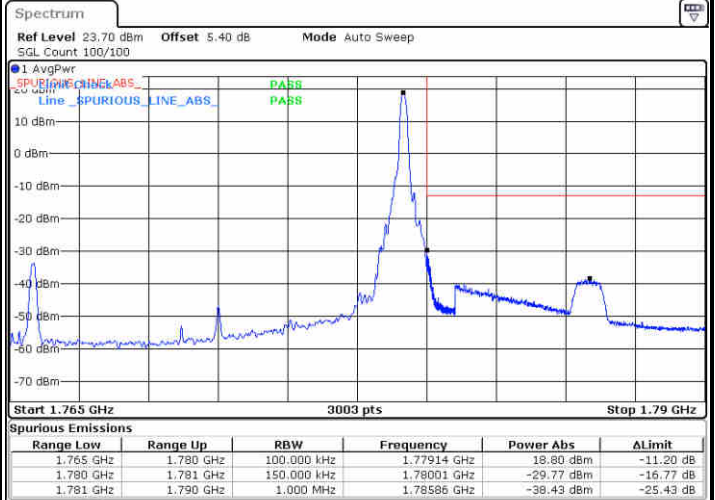
LTE Band 66 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



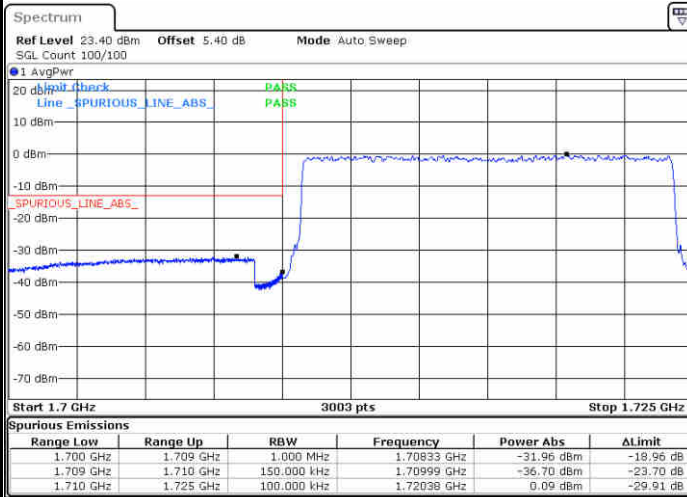
Date: 14.FEB.2020 17:53:51

Highest Band Edge / 1 RB



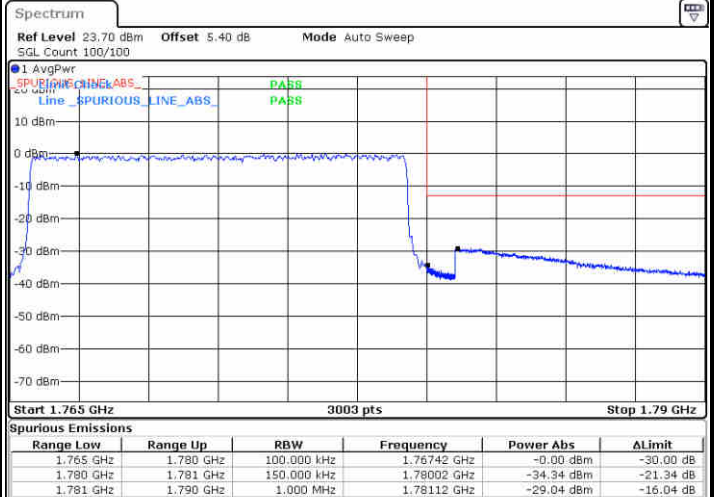
Date: 14.FEB.2020 17:56:49

Lowest Band Edge / Full RB



Date: 14.FEB.2020 17:55:25

Highest Band Edge / Full RB

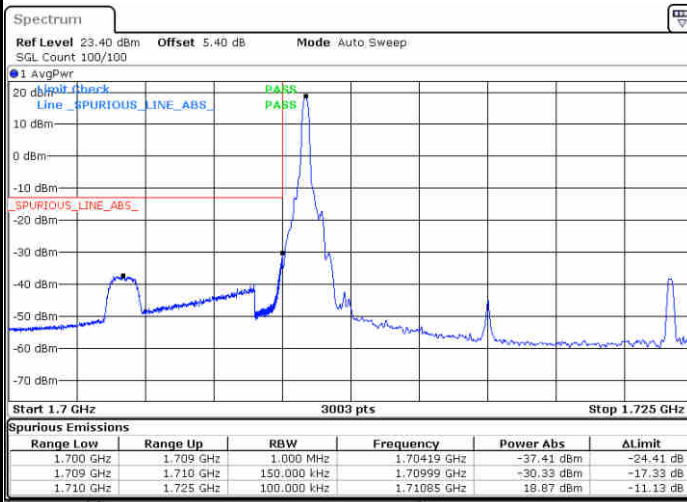


Date: 14.FEB.2020 17:57:55



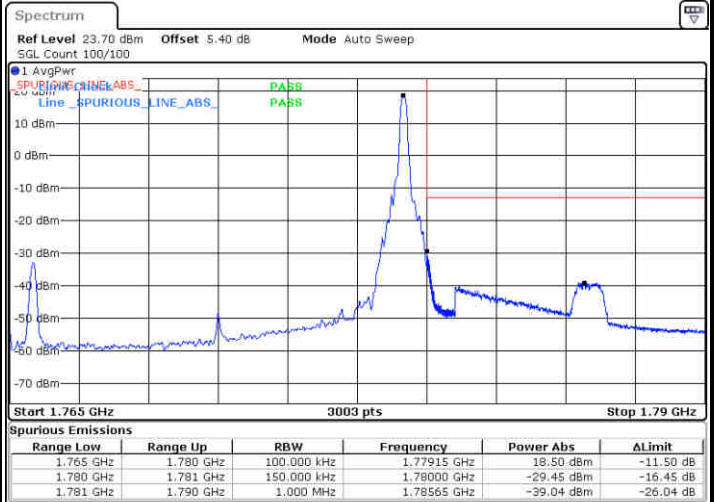
LTE Band 66 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



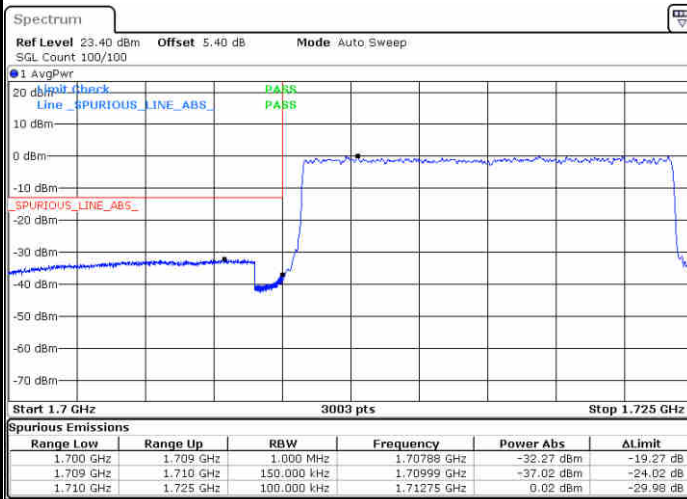
Date: 14.FEB.2020 17:54:14

Highest Band Edge / 1 RB



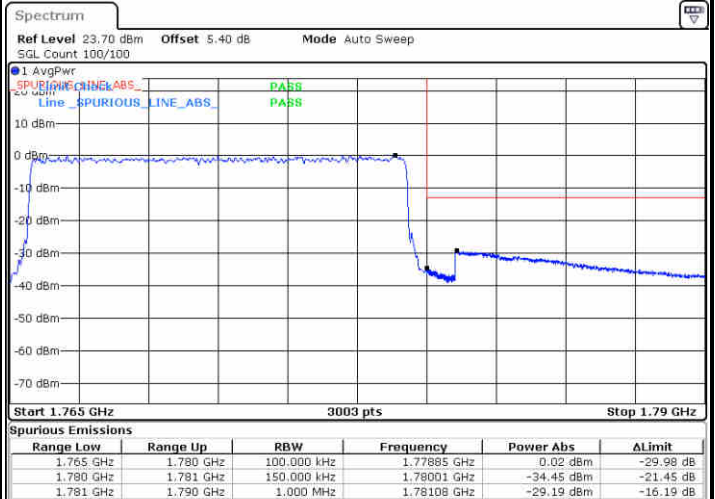
Date: 14.FEB.2020 17:57:03

Lowest Band Edge / Full RB



Date: 14.FEB.2020 17:55:58

Highest Band Edge / Full RB

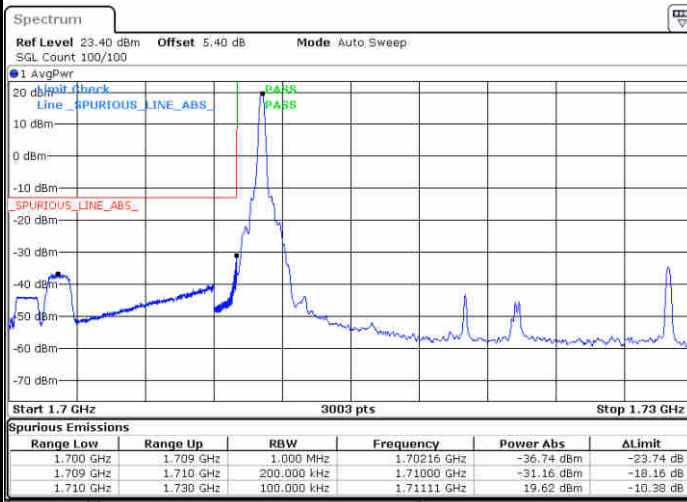


Date: 14.FEB.2020 17:59:51



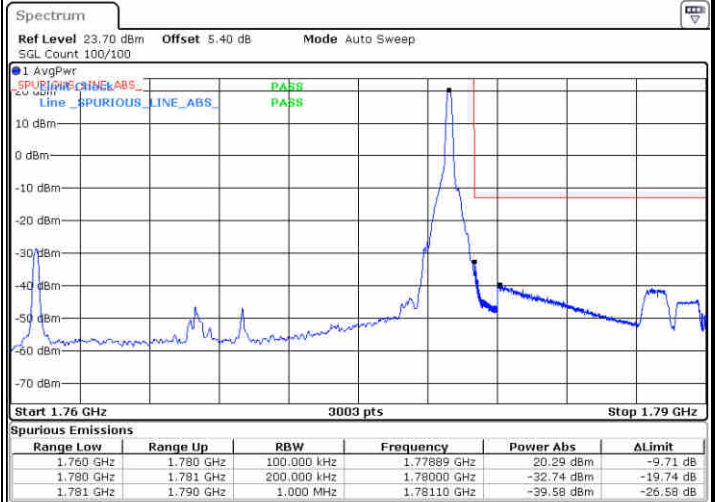
LTE Band 66 / 20MHz / QPSK

Lowest Band Edge / 1 RB



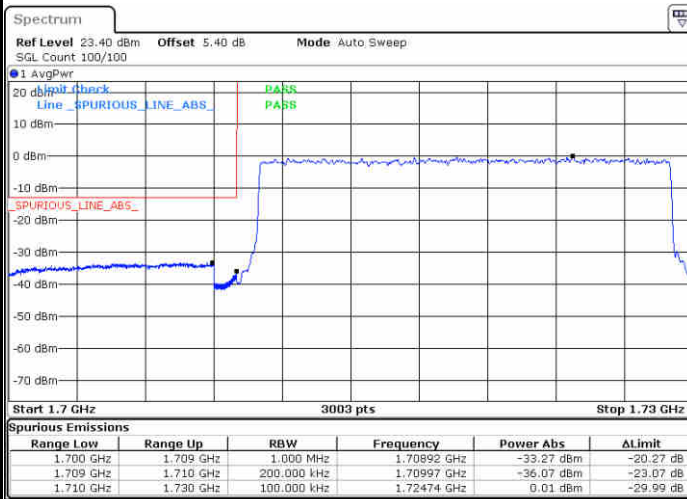
Date: 14.FEB.2020 18:20:39

Highest Band Edge / 1 RB



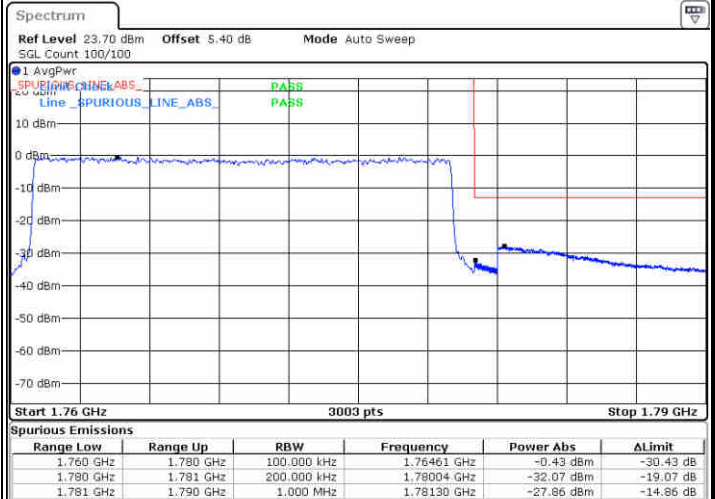
Date: 14.FEB.2020 18:23:28

Lowest Band Edge / Full RB



Date: 14.FEB.2020 18:21:44

Highest Band Edge / Full RB

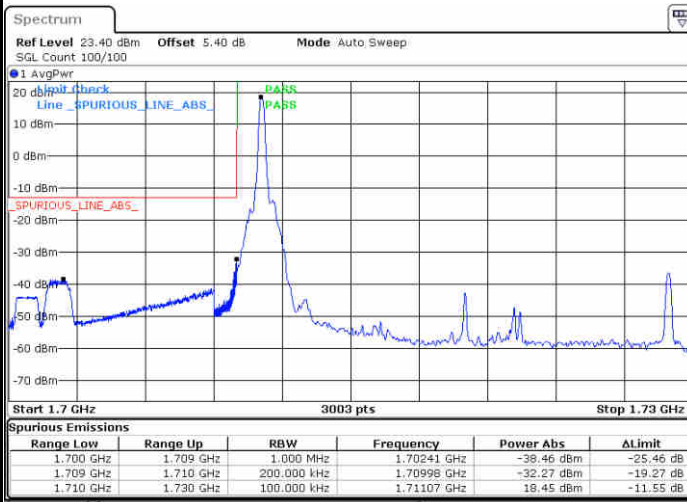


Date: 14.FEB.2020 18:24:31



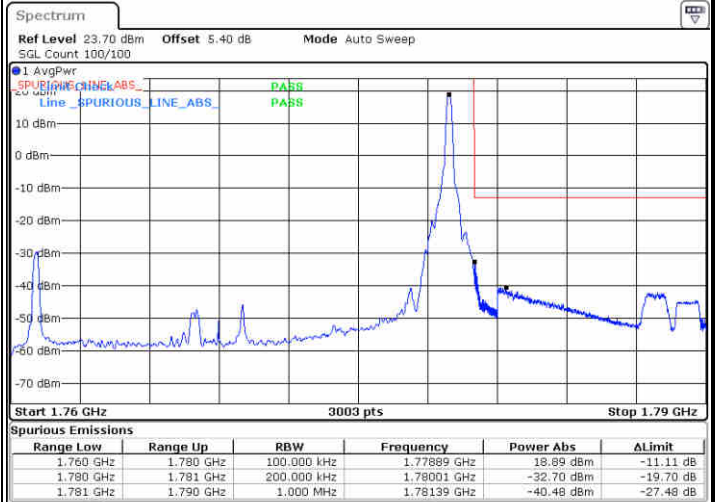
LTE Band 66 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



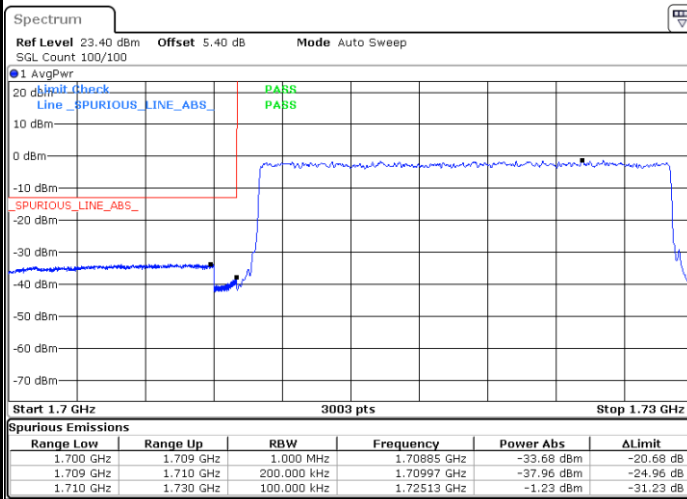
Date: 14.FEB.2020 18:20:58

Highest Band Edge / 1 RB



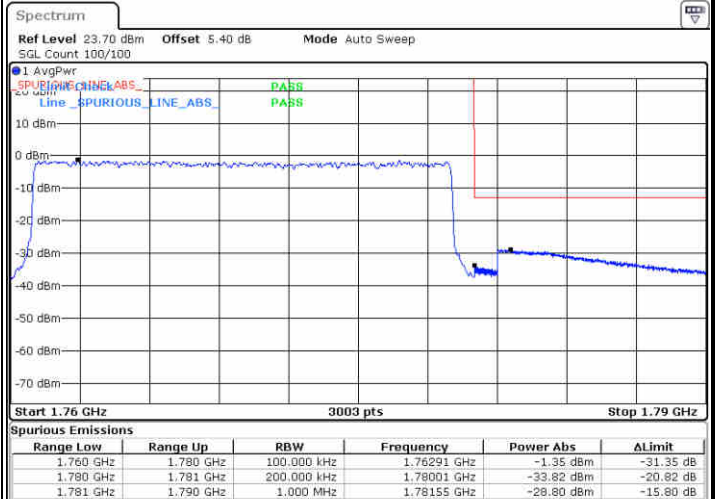
Date: 14.FEB.2020 18:23:48

Lowest Band Edge / Full RB



Date: 14.FEB.2020 18:22:03

Highest Band Edge / Full RB

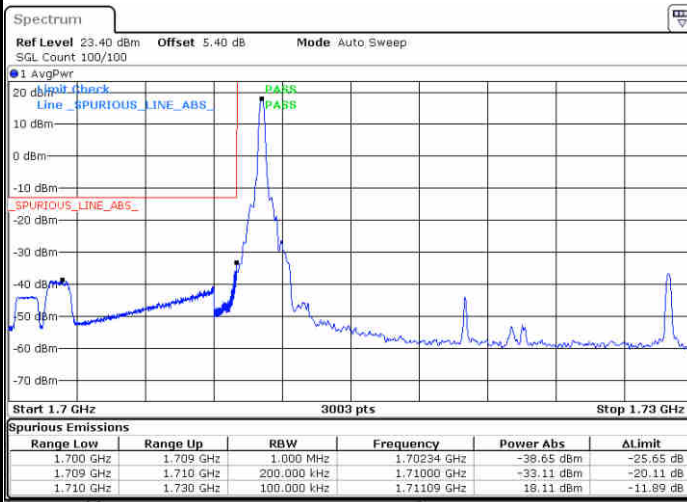


Date: 14.FEB.2020 18:24:47



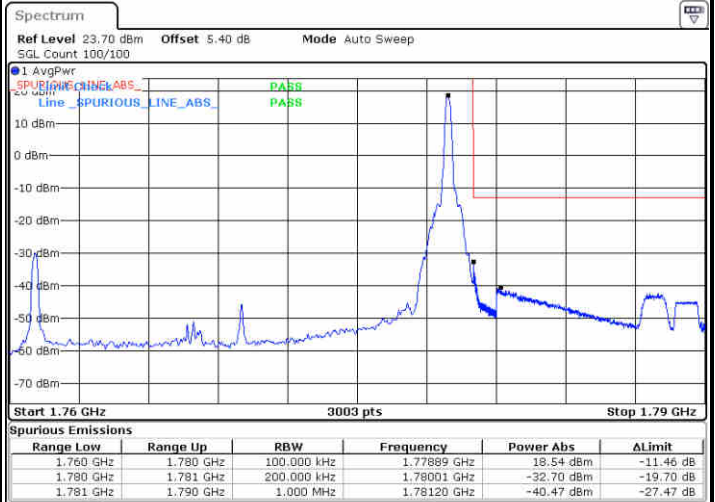
LTE Band 66 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



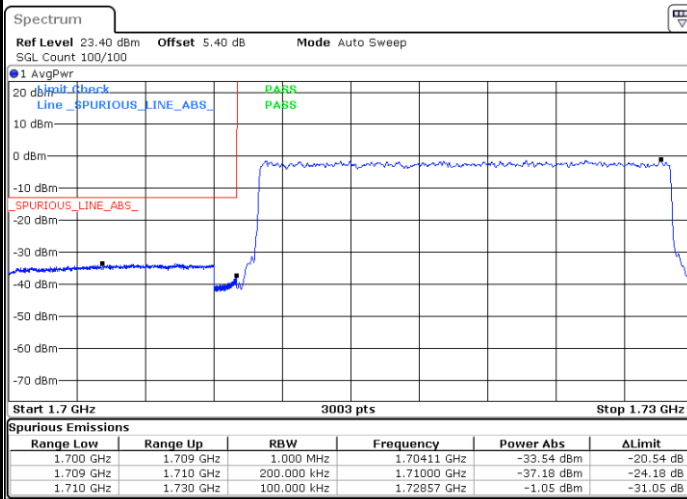
Date: 14.FEB.2020 18:21:18

Highest Band Edge / 1 RB



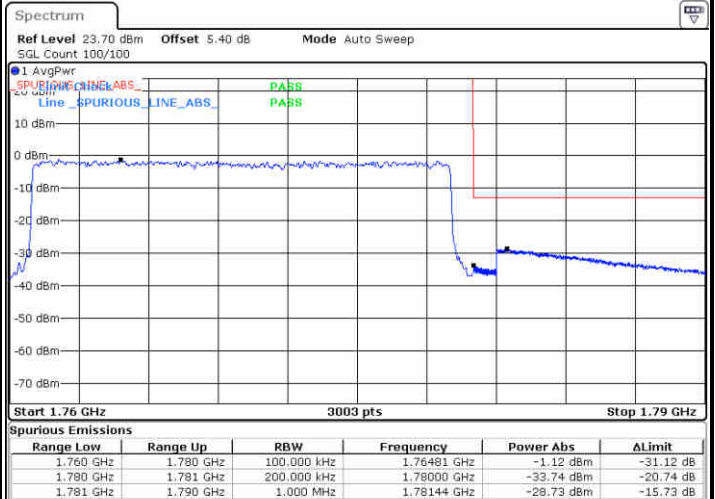
Date: 14.FEB.2020 18:24:01

Lowest Band Edge / Full RB



Date: 14.FEB.2020 18:22:24

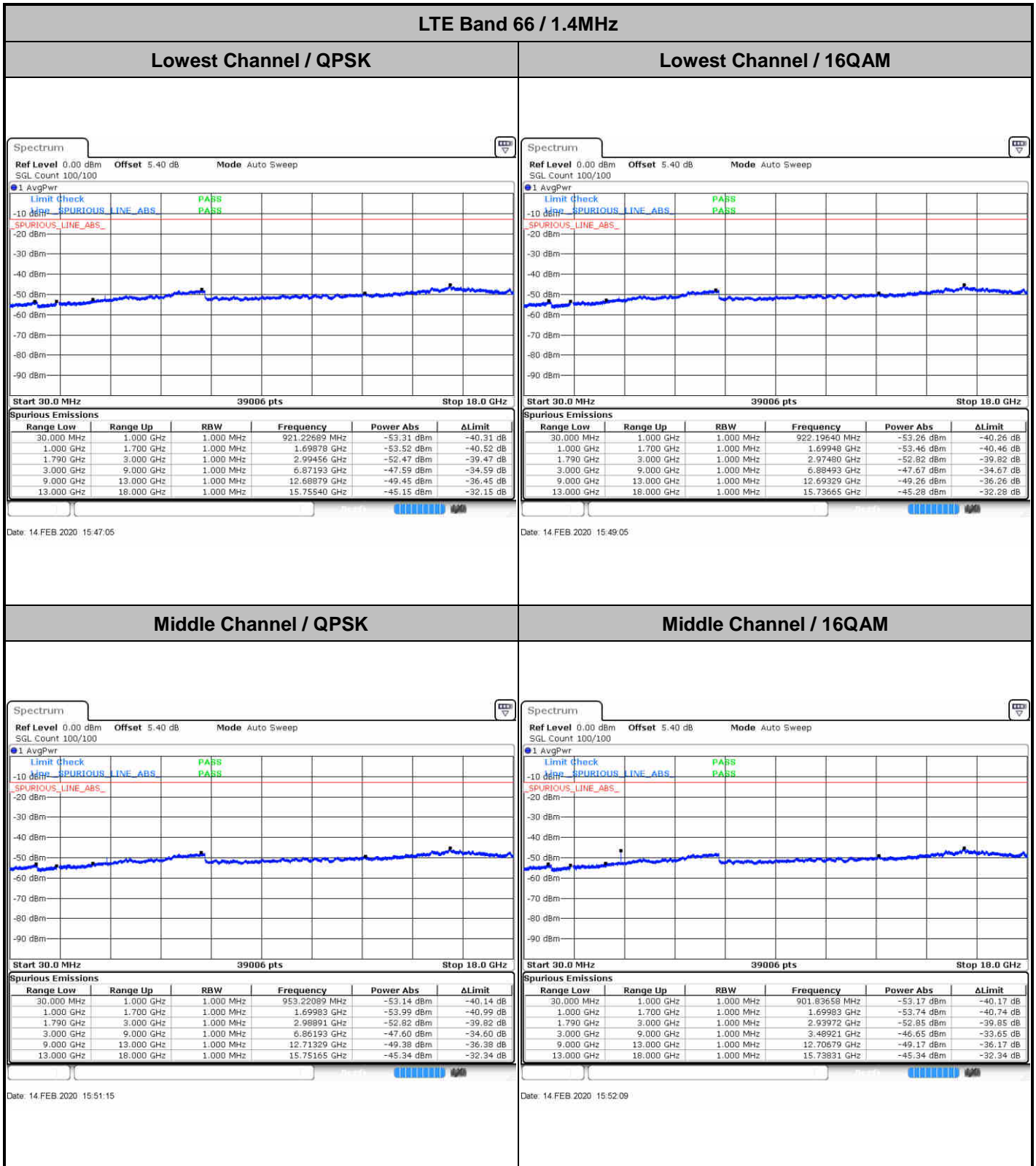
Highest Band Edge / Full RB



Date: 14.FEB.2020 18:25:27



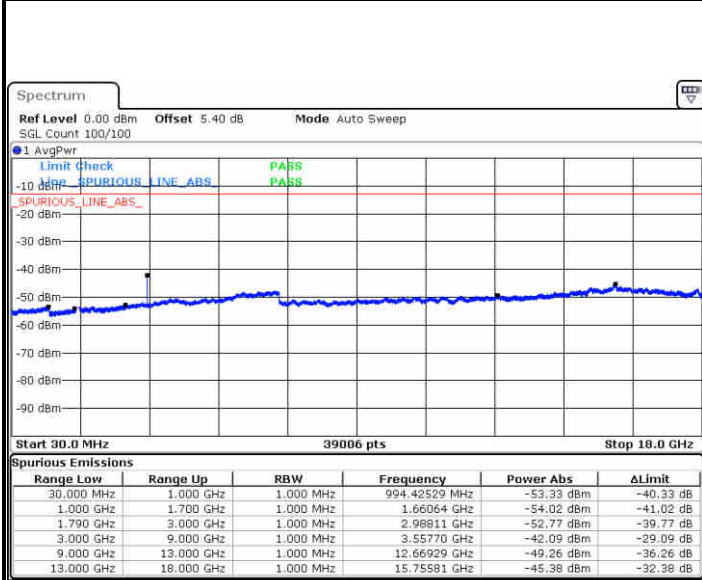
# Conducted Spurious Emission





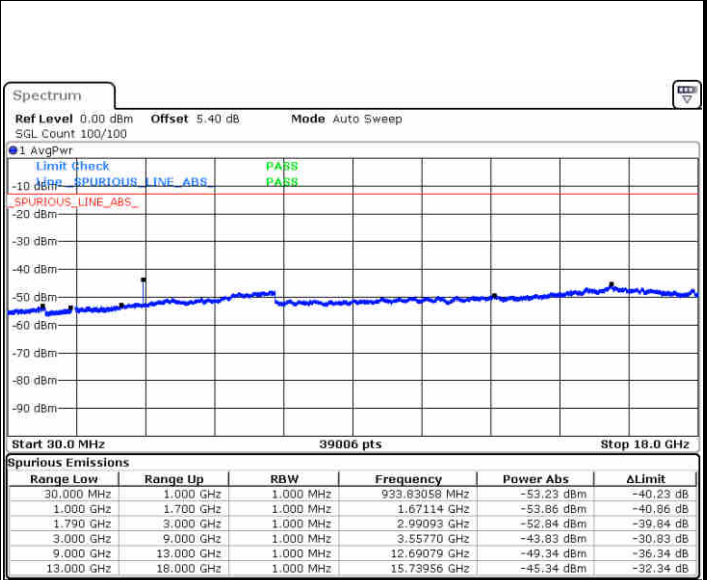
LTE Band 66 / 1.4MHz

Highest Channel / QPSK



Date: 14.FEB 2020 15:54:13

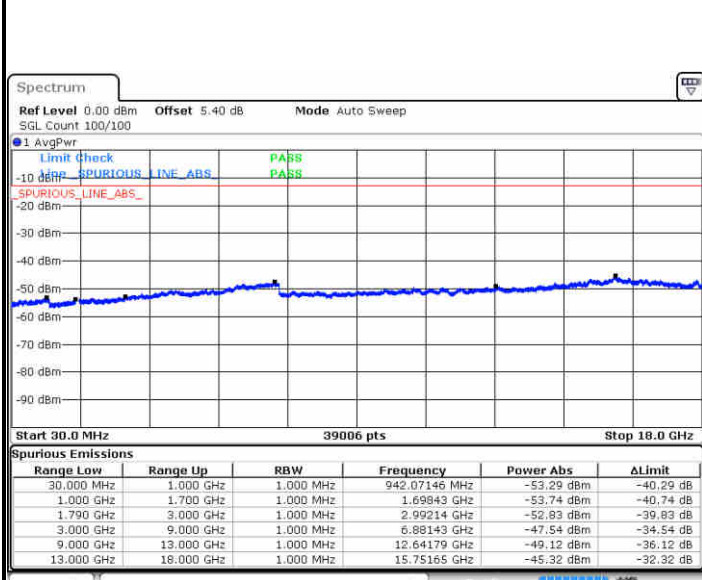
Highest Channel / 16QAM



Date: 14.FEB 2020 15:55:00

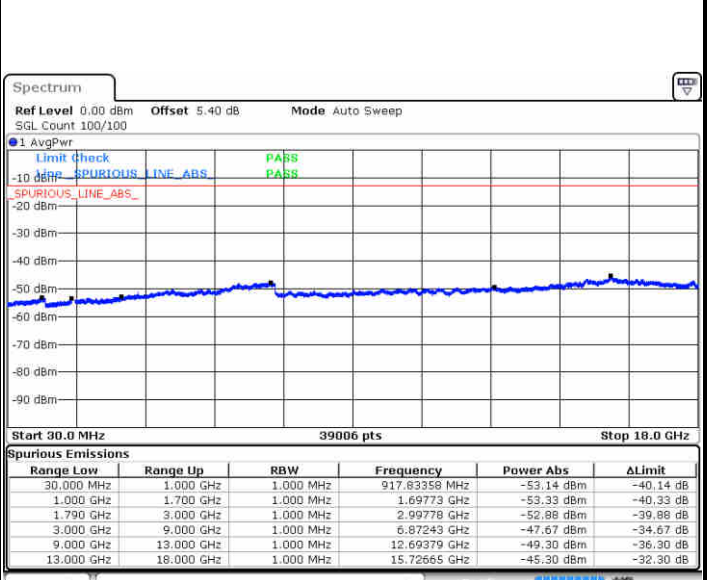
LTE Band 66 / 3MHz

Lowest Channel / QPSK



Date: 14.FEB 2020 16:06:35

Lowest Channel / 16QAM



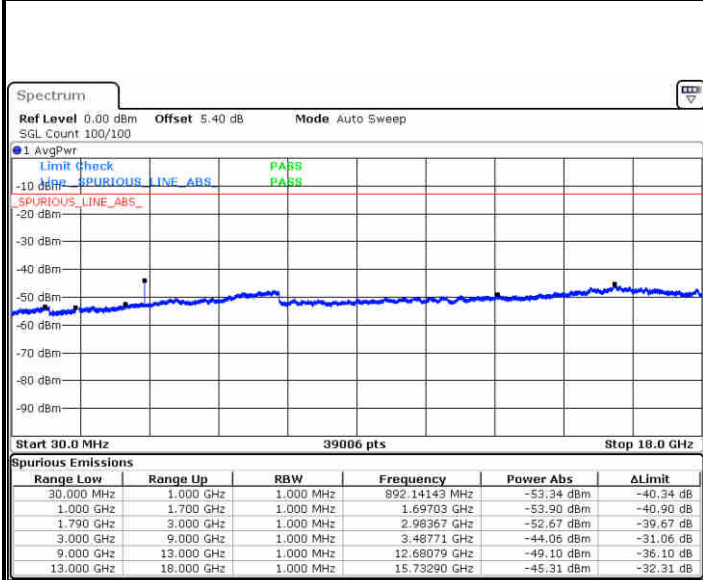
Date: 14.FEB 2020 16:07:25





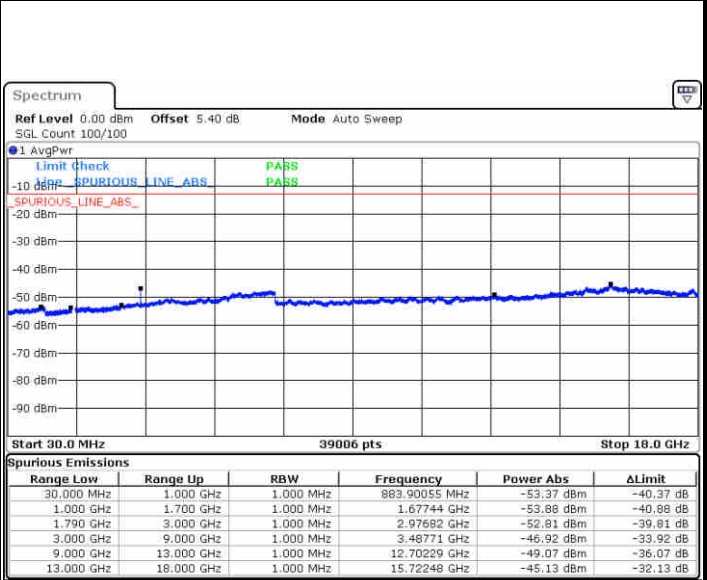
LTE Band 66 / 3MHz

Middle Channel / QPSK



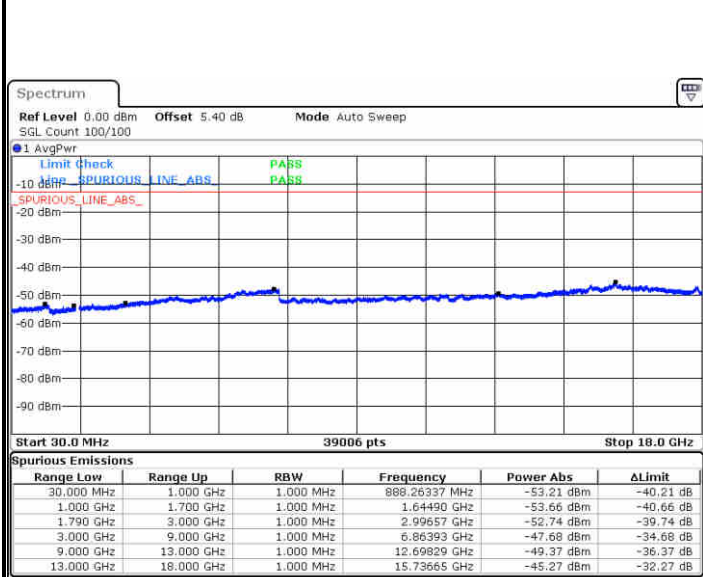
Date: 14.FEB 2020 16:09:19

Middle Channel / 16QAM



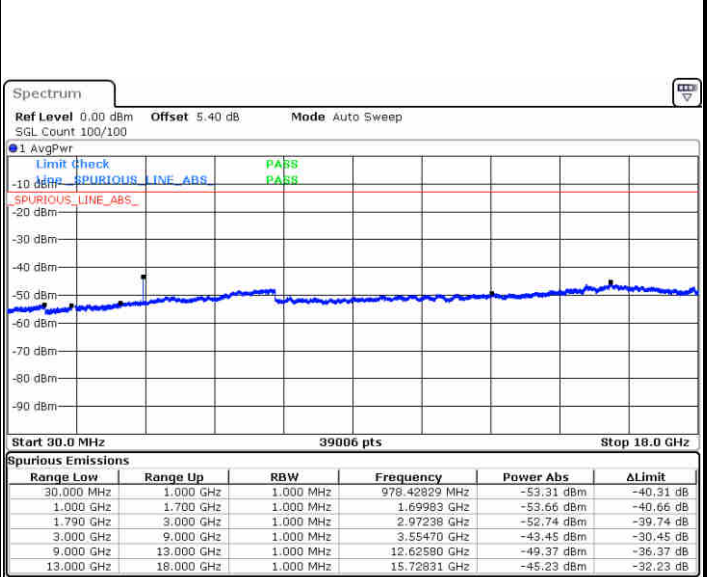
Date: 14.FEB 2020 16:10:02

Highest Channel / QPSK



Date: 14.FEB 2020 16:12:00

Highest Channel / 16QAM



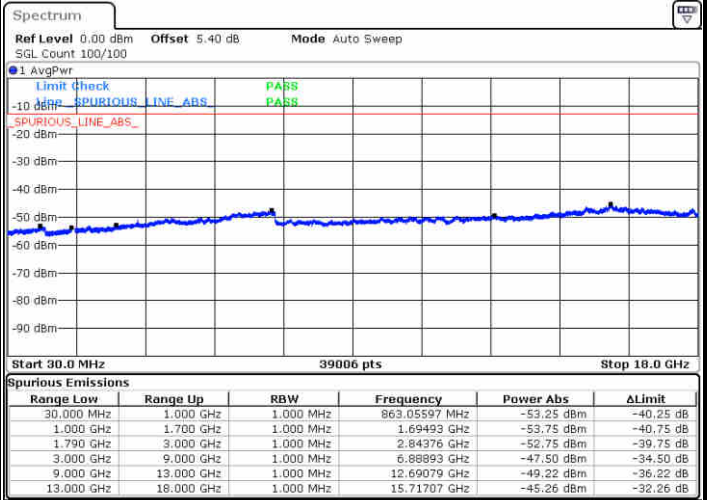
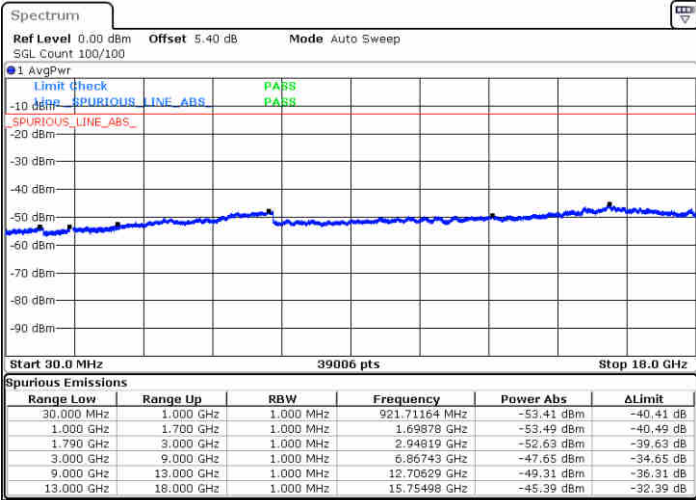
Date: 14.FEB 2020 16:12:49



LTE Band 66 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

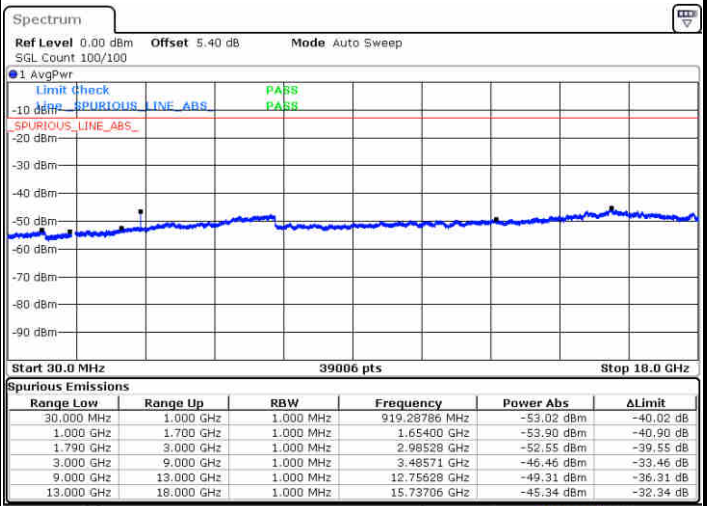
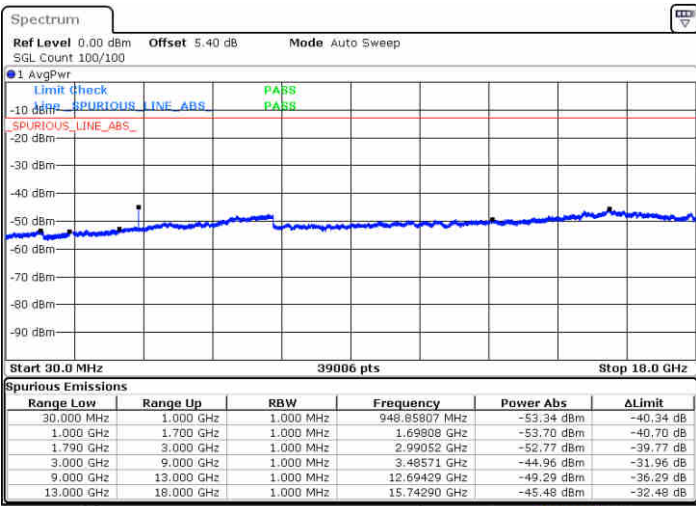


Date: 14.FEB 2020 16:50:36

Date: 14.FEB 2020 16:51:18

Middle Channel / QPSK

Middle Channel / 16QAM



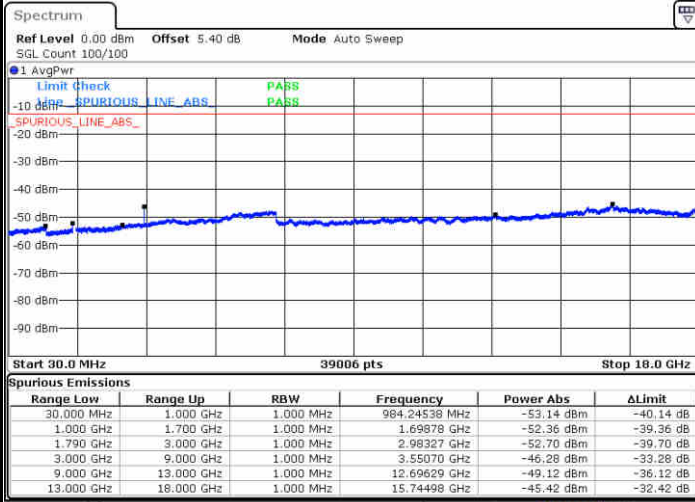
Date: 14.FEB 2020 16:52:54

Date: 14.FEB 2020 16:53:40



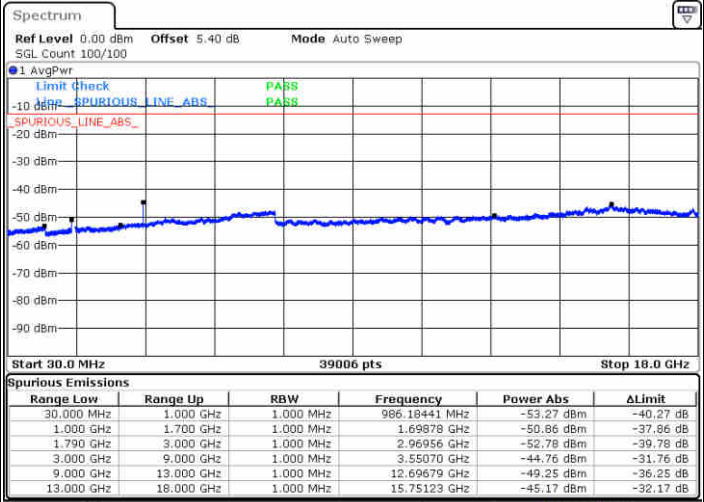
LTE Band 66 / 5MHz

Highest Channel / QPSK



Date: 14.FEB 2020 16:55:27

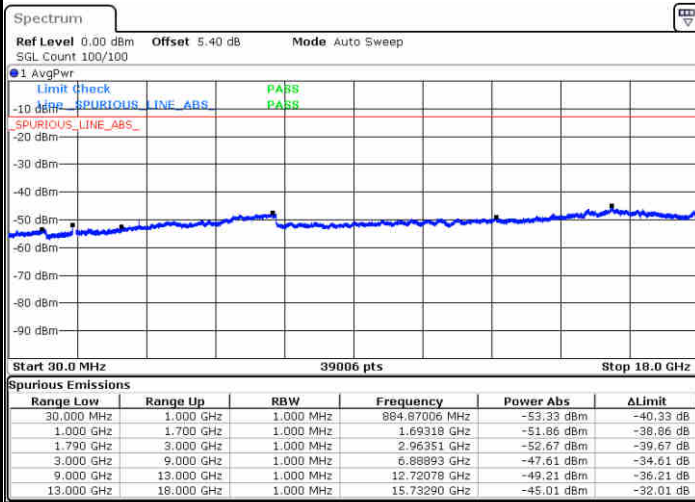
Highest Channel / 16QAM



Date: 14.FEB 2020 16:56:13

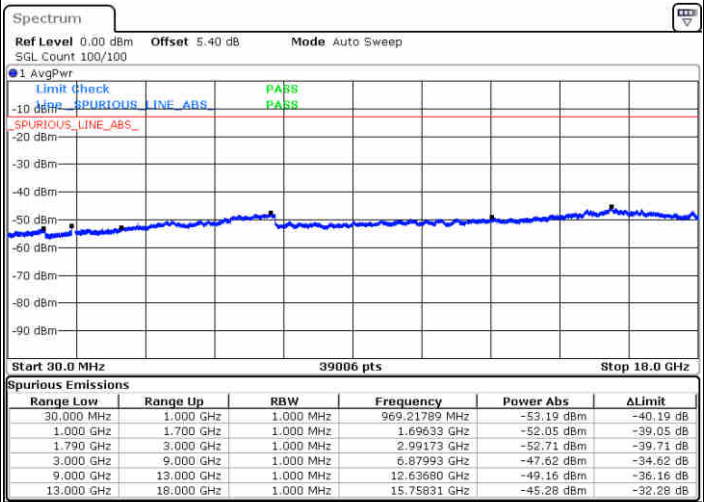
LTE Band 66 / 10MHz

Lowest Channel / QPSK



Date: 14.FEB 2020 17:15:17

Lowest Channel / 16QAM



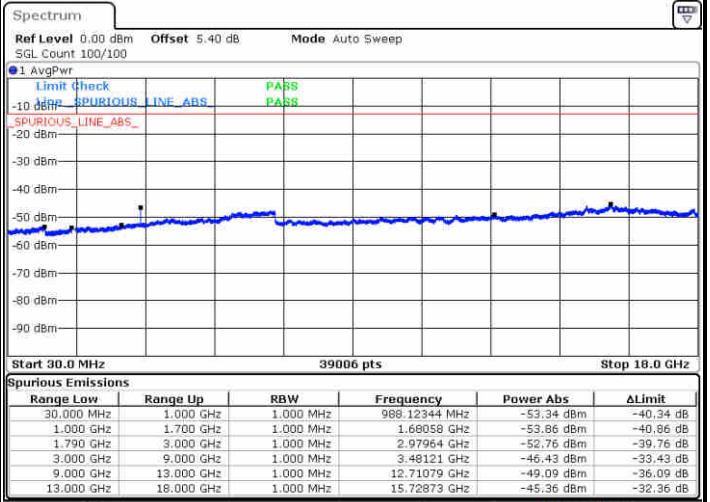
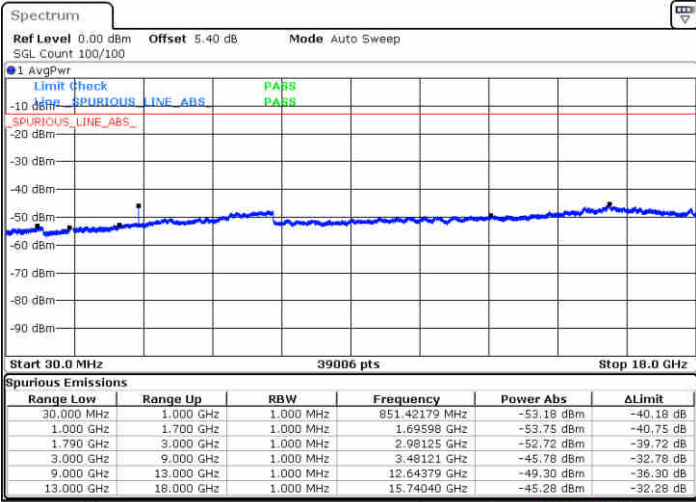
Date: 14.FEB 2020 17:15:59



LTE Band 66 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

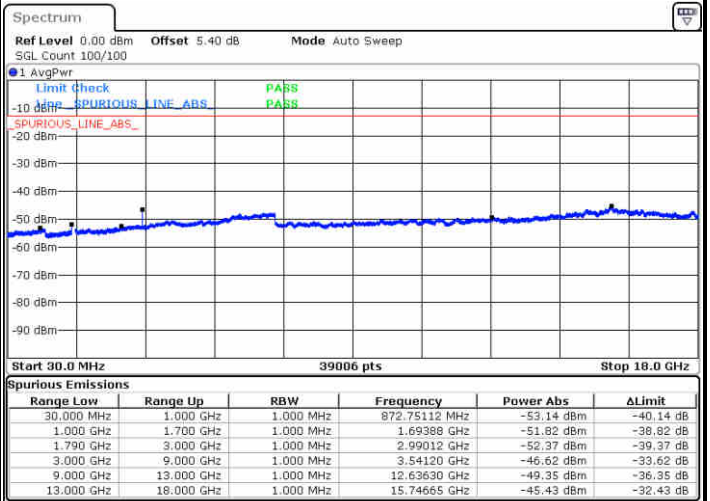
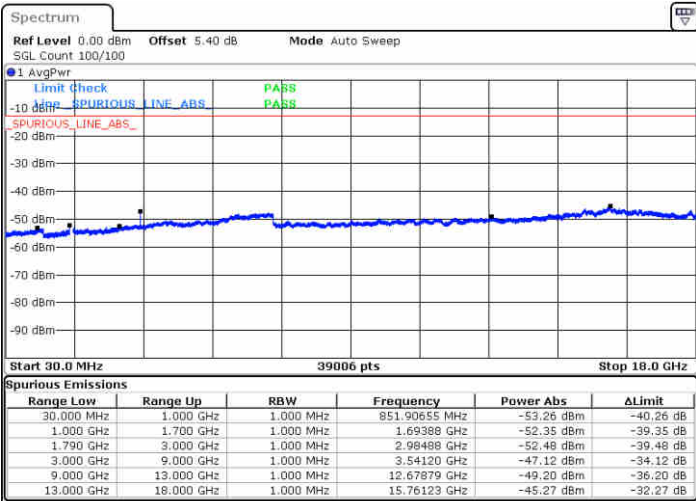


Date: 14.FEB 2020 17:18:12

Date: 14.FEB 2020 17:19:11

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 14.FEB 2020 17:21:31

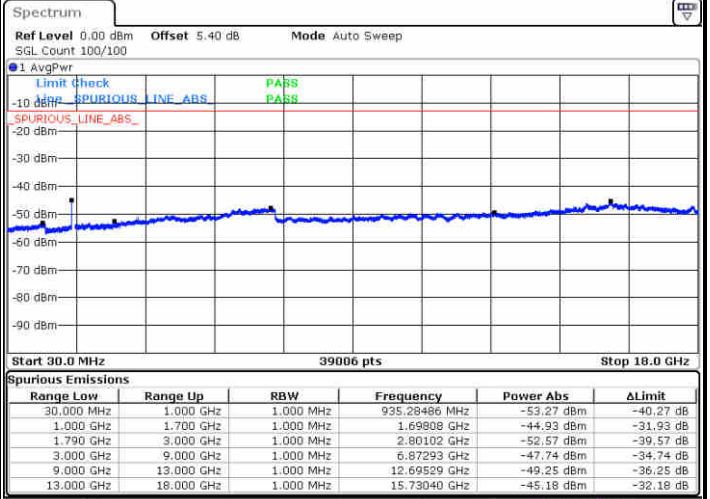
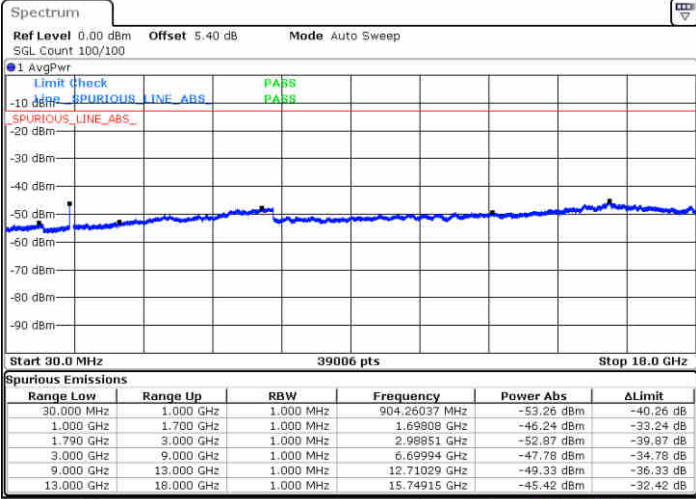
Date: 14.FEB 2020 17:22:24



LTE Band 66 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

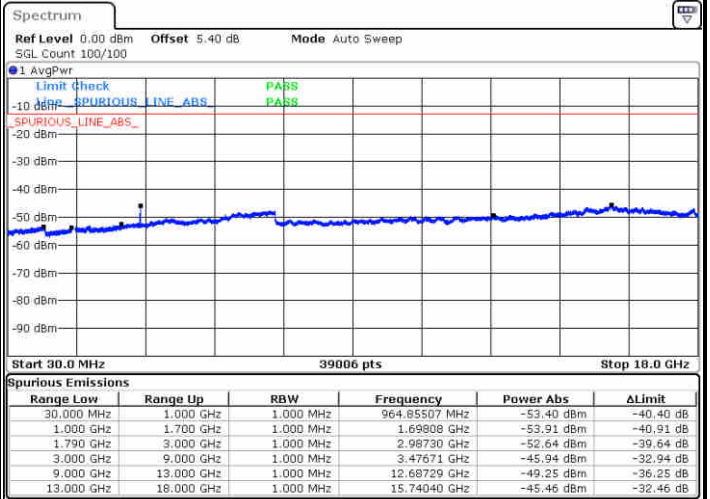
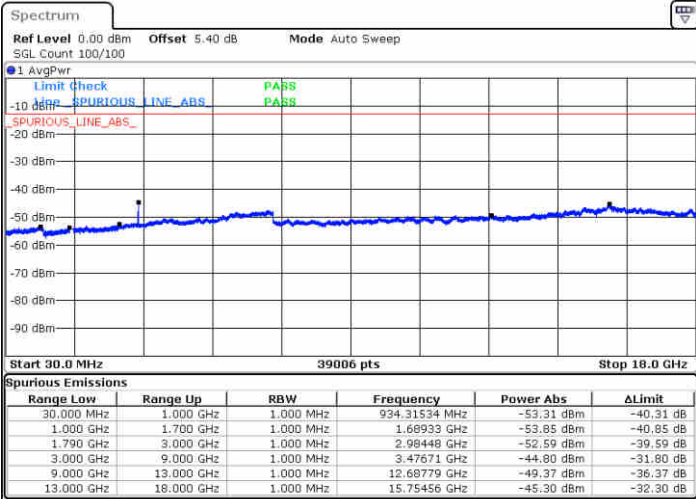


Date: 14.FEB 2020 17:44:32

Date: 14.FEB 2020 17:46:01

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 14.FEB 2020 17:48:23

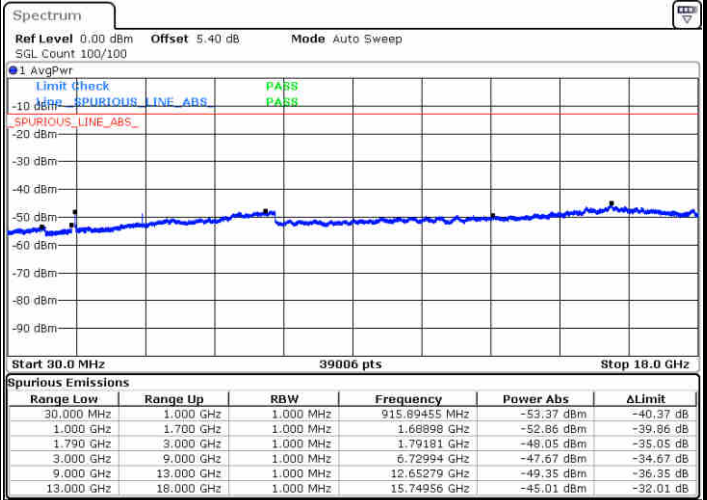
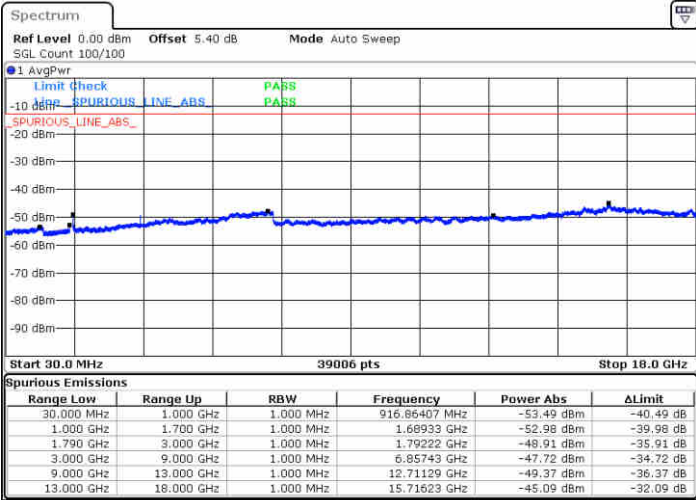
Date: 14.FEB 2020 17:49:04



LTE Band 66 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM



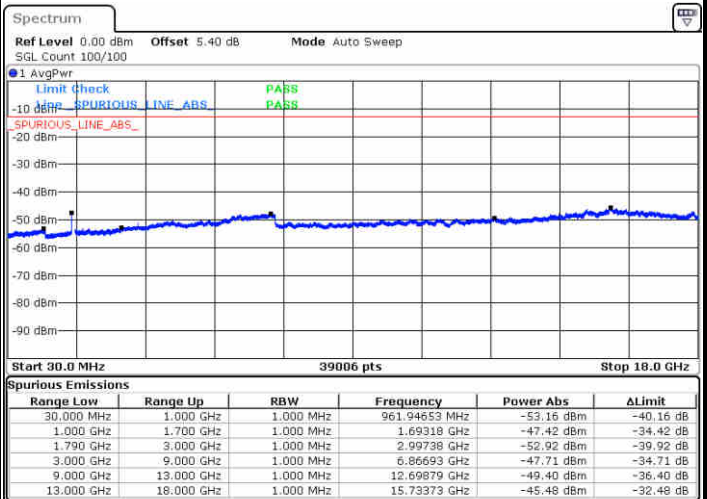
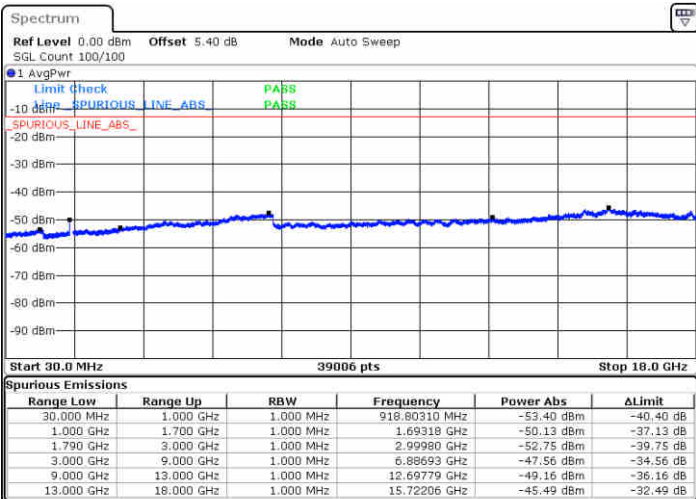
Date: 14.FEB 2020 17:51:00

Date: 14.FEB 2020 17:51:43

LTE Band 66 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 14.FEB 2020 18:09:33

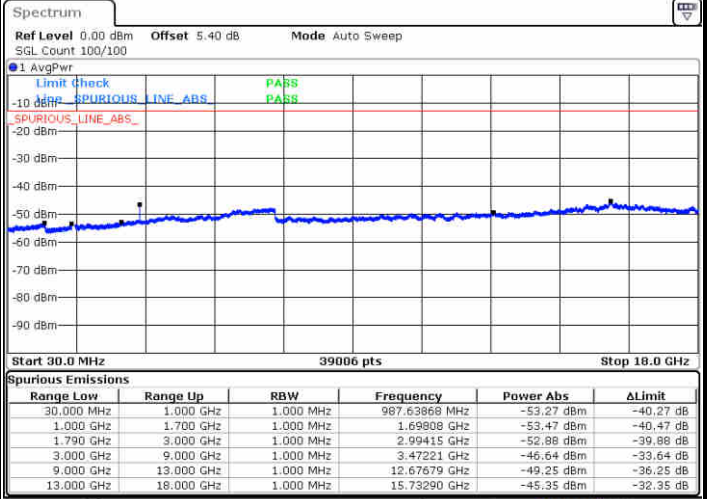
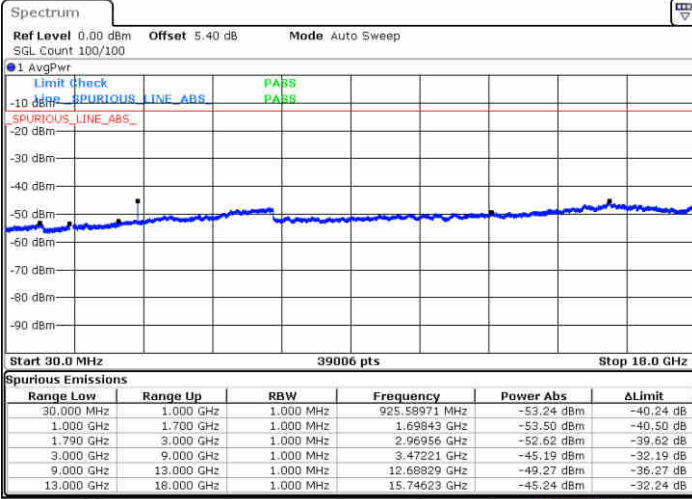
Date: 14.FEB 2020 18:10:24



LTE Band 66 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

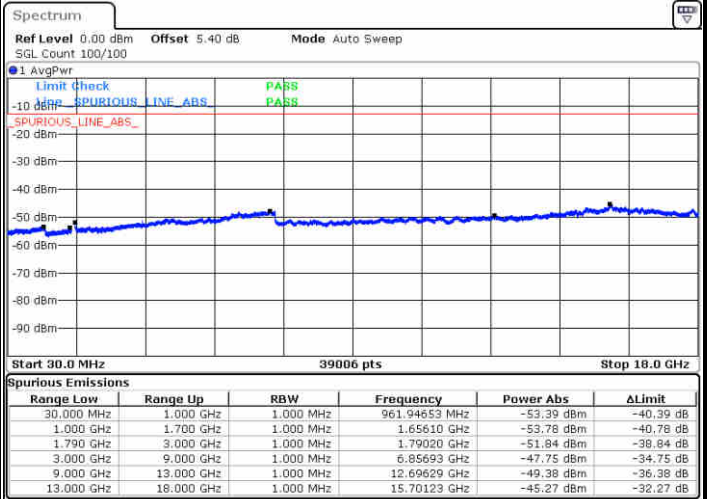
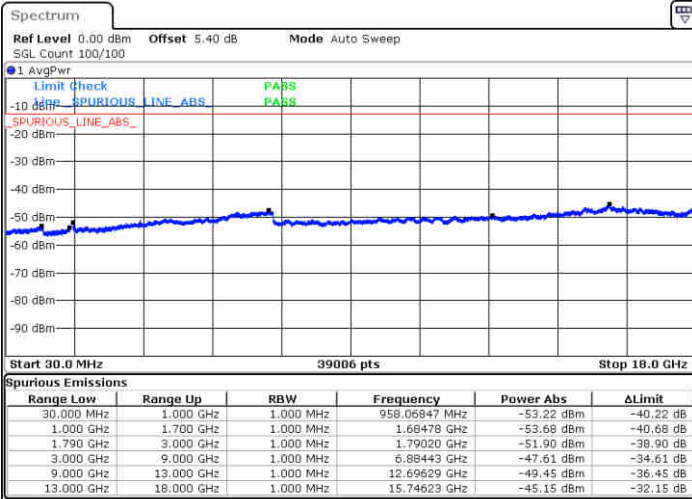


Date: 14.FEB 2020 18:12:56

Date: 14.FEB 2020 18:13:42

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 14.FEB 2020 18:16:25

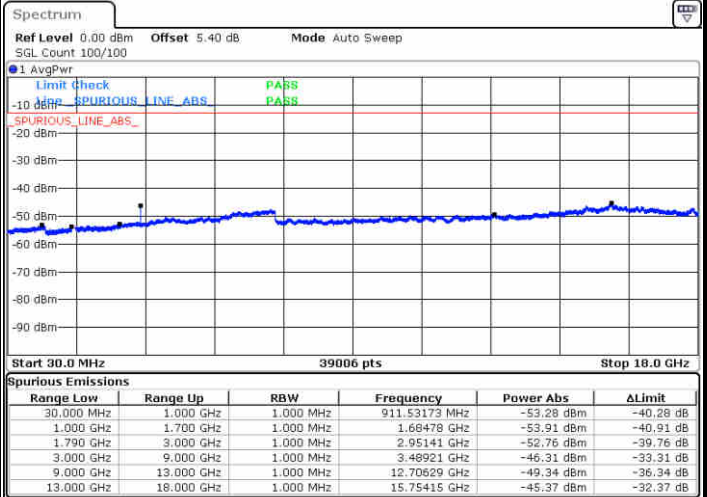
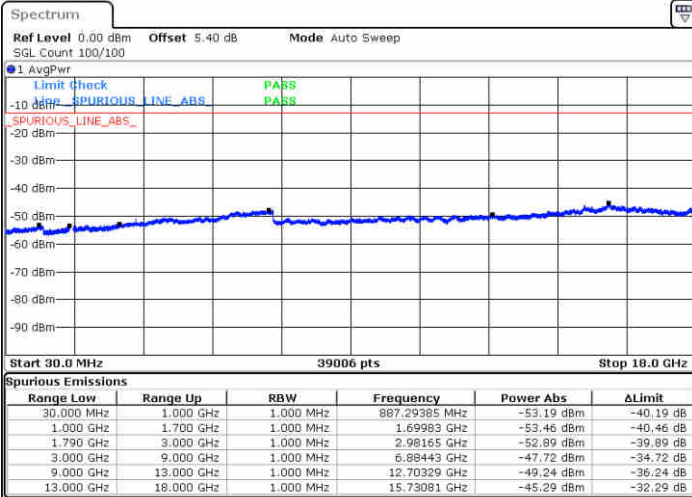
Date: 14.FEB 2020 18:17:12



LTE Band 66 / 1.4MHz

Lowest Channel / 64QAM

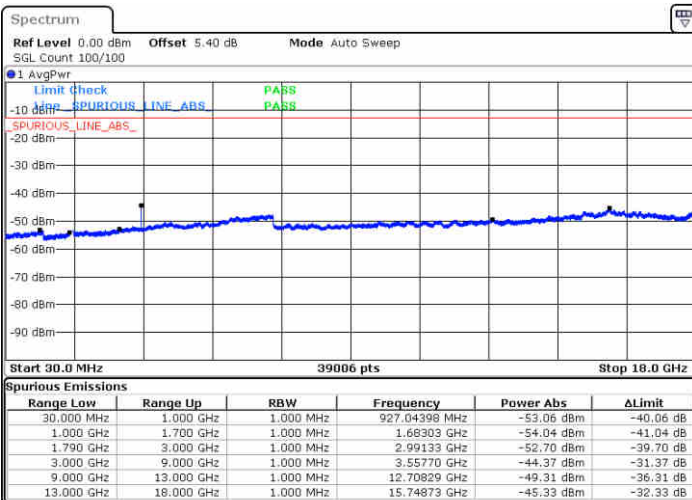
Middle Channel / 64QAM



Date: 14.FEB 2020 15:50:10

Date: 14.FEB 2020 15:52:51

Highest Channel / 64QAM



Date: 14.FEB 2020 15:55:54

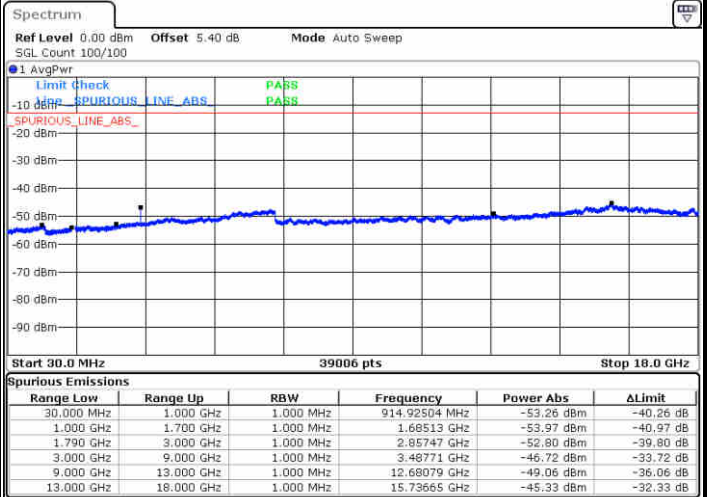
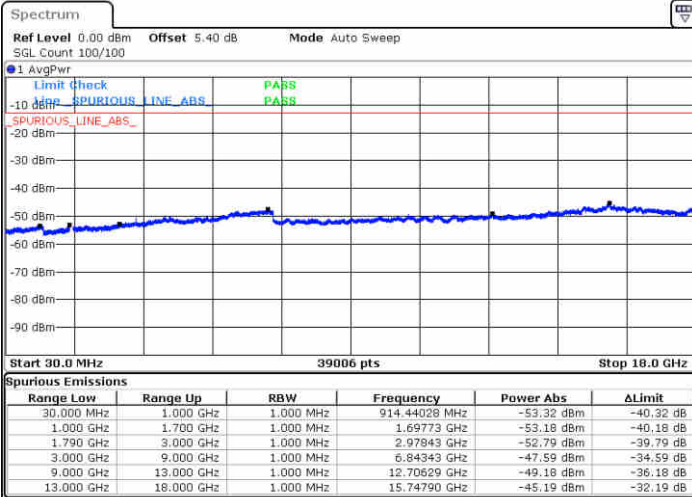




LTE Band 66 / 3MHz

Lowest Channel / 64QAM

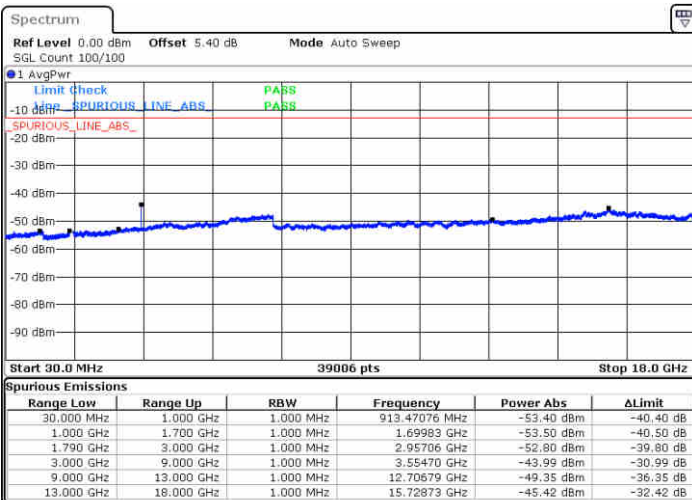
Middle Channel / 64QAM



Date: 14.FEB 2020 16:08:21

Date: 14.FEB 2020 16:10:42

Highest Channel / 64QAM



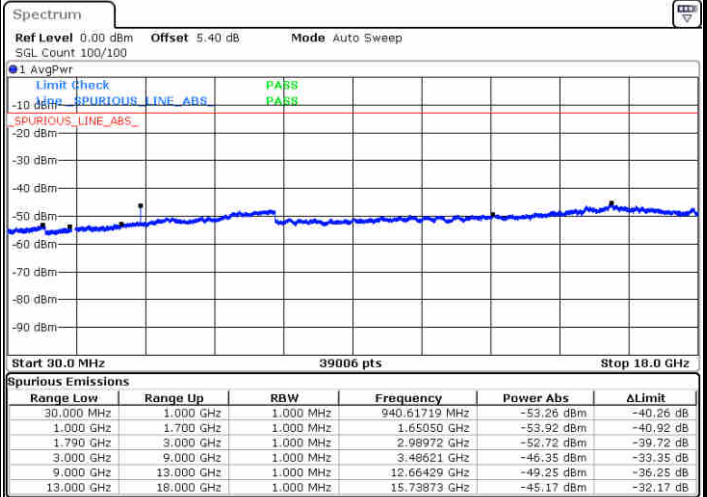
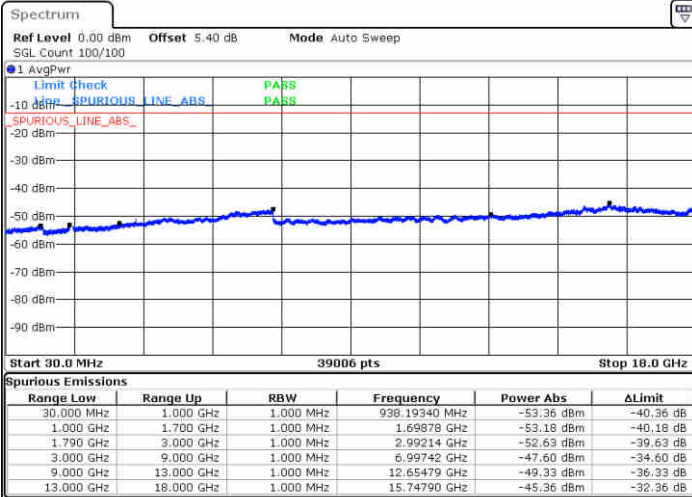
Date: 14.FEB 2020 16:13:48



LTE Band 66 / 5MHz

Lowest Channel / 64QAM

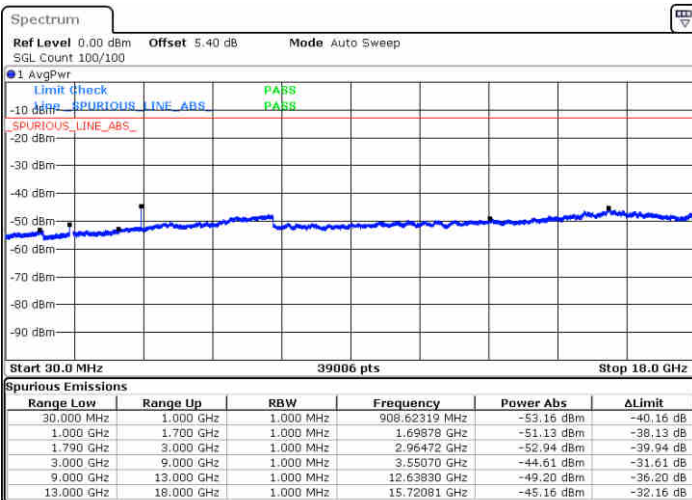
Middle Channel / 64QAM



Date: 14.FEB 2020 16:51:56

Date: 14.FEB 2020 16:54:25

Highest Channel / 64QAM



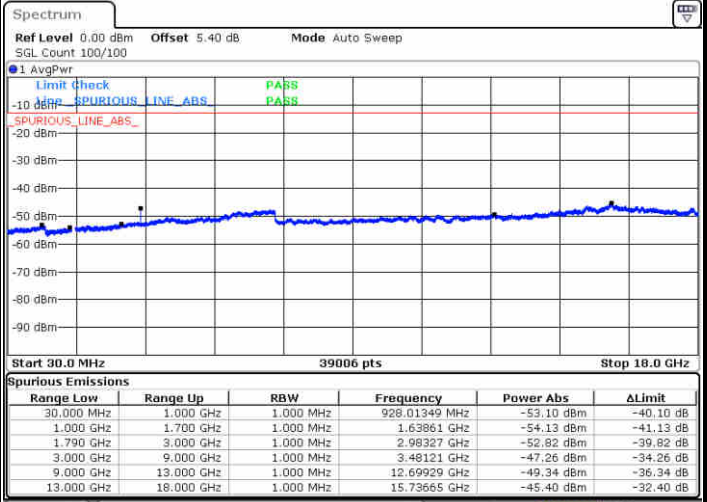
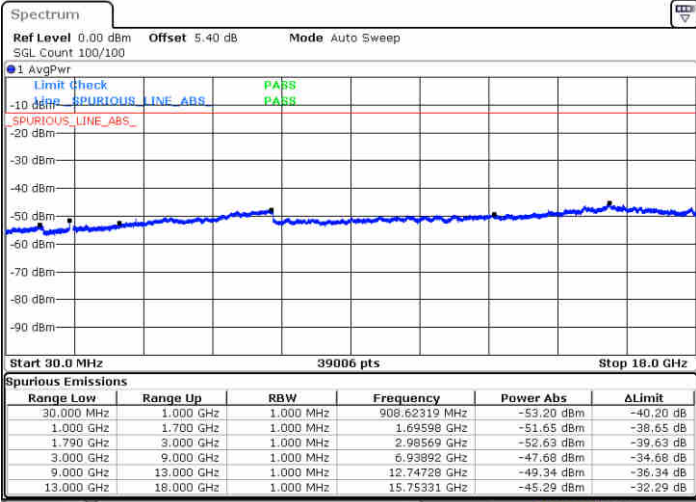
Date: 14.FEB 2020 16:57:39



LTE Band 66 / 10MHz

Lowest Channel / 64QAM

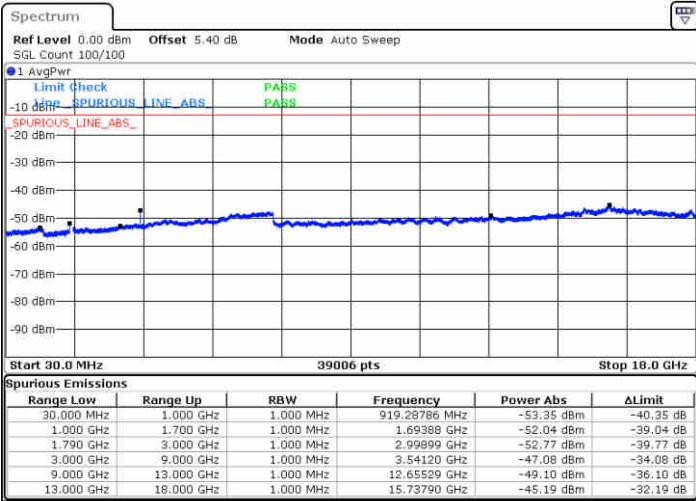
Middle Channel / 64QAM



Date: 14.FEB 2020 17:17:05

Date: 14.FEB 2020 17:20:08

Highest Channel / 64QAM



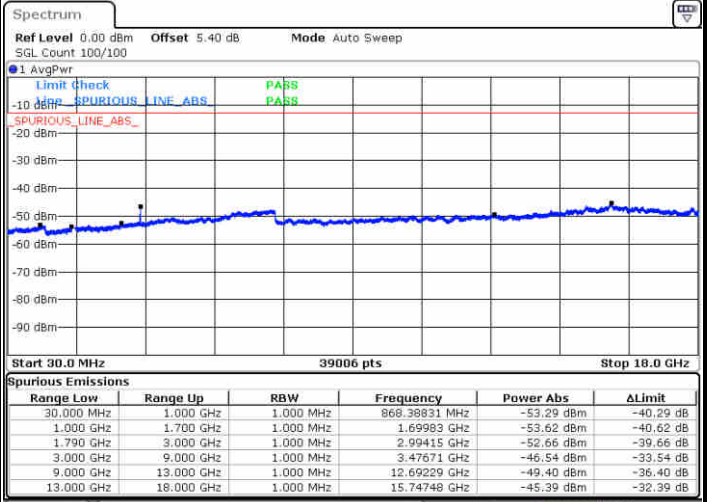
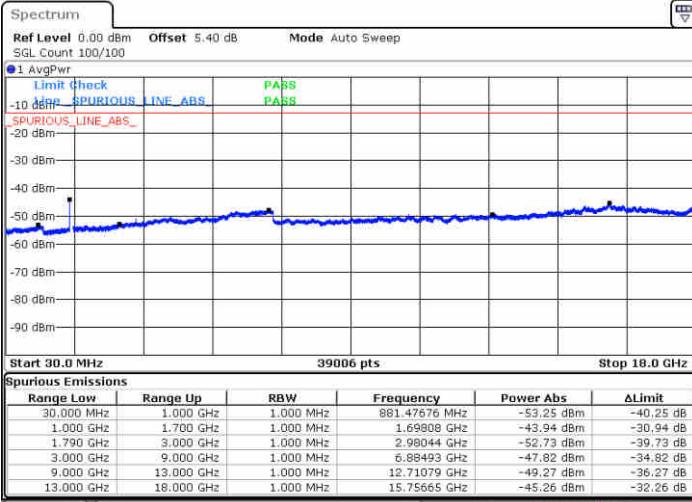
Date: 14.FEB 2020 17:23:08



LTE Band 66 / 15MHz

Lowest Channel / 64QAM

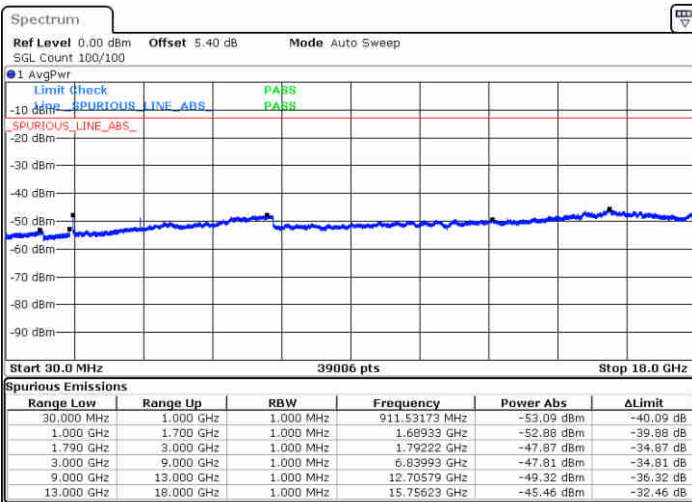
Middle Channel / 64QAM



Date: 14.FEB 2020 17:47:03

Date: 14.FEB 2020 17:49:48

Highest Channel / 64QAM



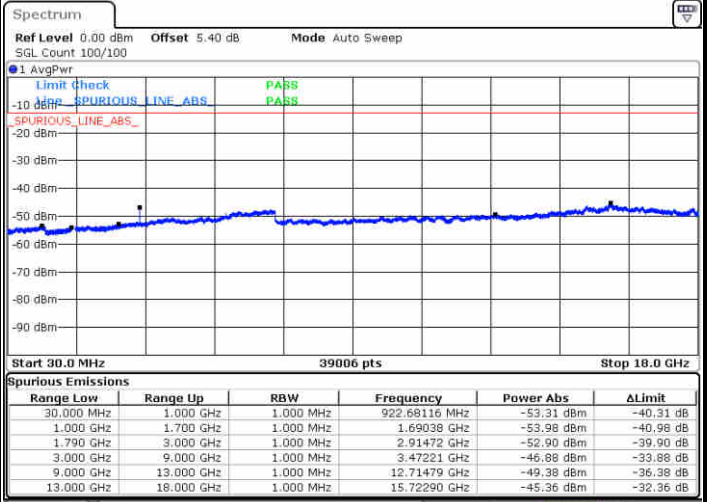
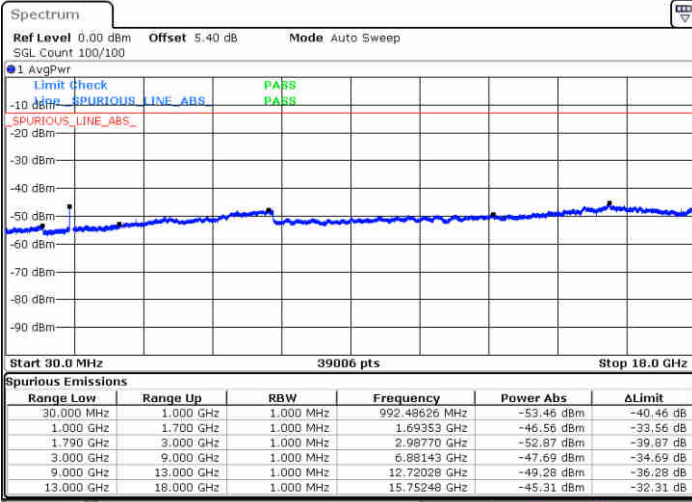
Date: 14.FEB 2020 17:52:30



LTE Band 66 / 20MHz

Lowest Channel / 64QAM

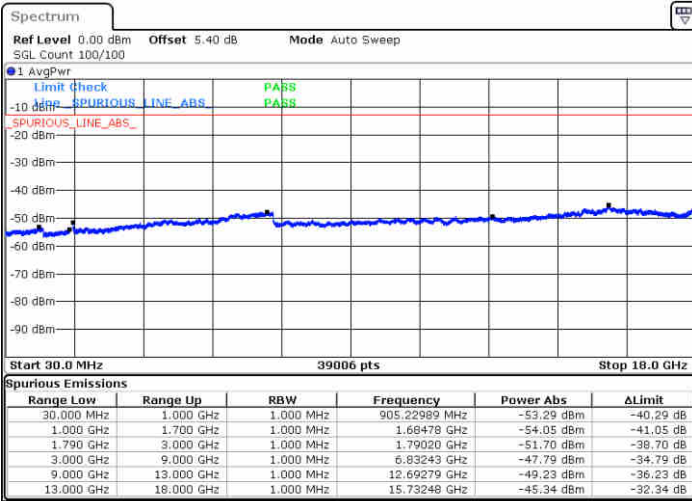
Middle Channel / 64QAM



Date: 14.FEB 2020 18:11:05

Date: 14.FEB 2020 18:14:23

Highest Channel / 64QAM



Date: 14.FEB 2020 18:18:06



### Frequency Stability

Test Conditions		LTE Band 66 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0003	PASS
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0034	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0020	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0029	
20	Normal Voltage	0.0006	
20	Battery End Point	0.0007	

**Note:**

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.65 V. ; Maximum Voltage =4.40 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	4.67	5.04	5.25	5.97	PASS
Middle CH	4.61	4.84	5.62	5.88	
Highest CH	4.72	5.01	5.45	5.91	
Mode	LTE Band 71 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.12	6.14	-	-	PASS
Middle CH	5.80	6.03	-	-	
Highest CH	6.14	6.20	-	-	



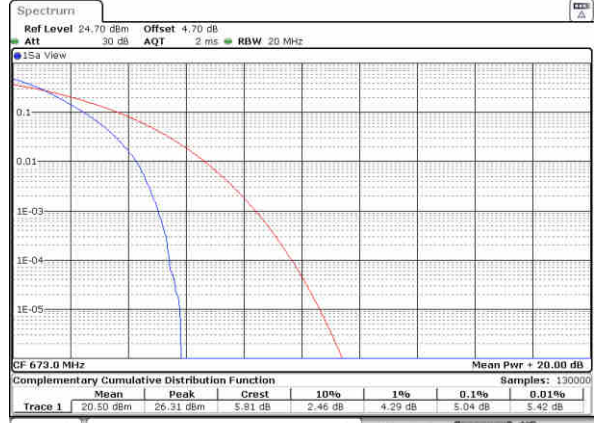
LTE Band 71 / 20MHz / QPSK

Lowest Channel / 1RB



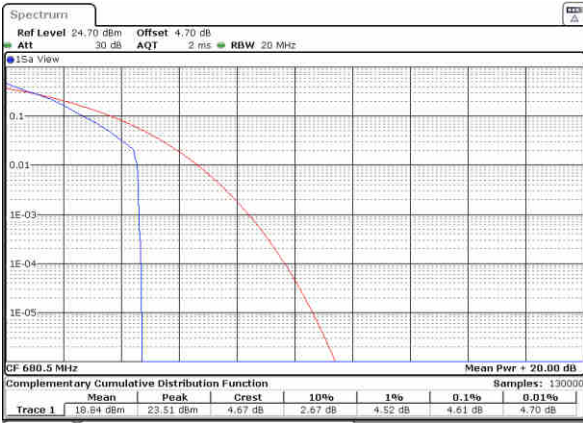
Date: 6 FEB 2020 02:30:28

Lowest Channel / Full RB



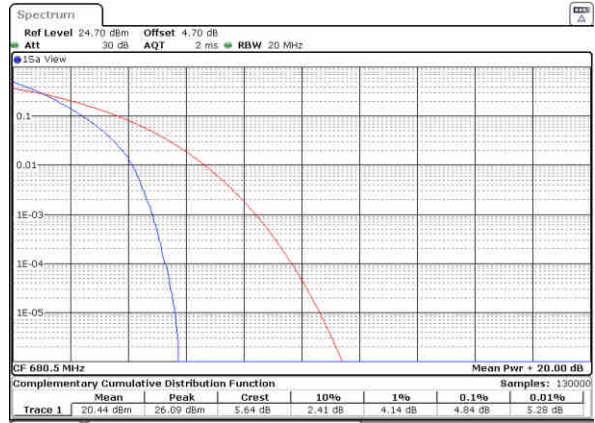
Date: 6 FEB 2020 02:29:16

Middle Channel / 1RB



Date: 6 FEB 2020 02:35:20

Middle Channel / Full RB



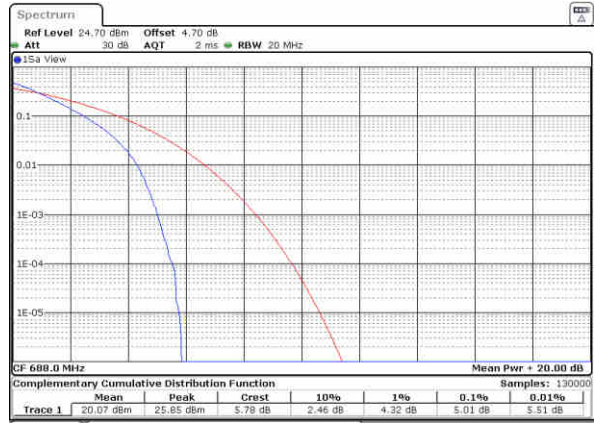
Date: 6 FEB 2020 02:35:55

Highest Channel / 1RB



Date: 6 FEB 2020 02:41:17

Highest Channel / Full RB



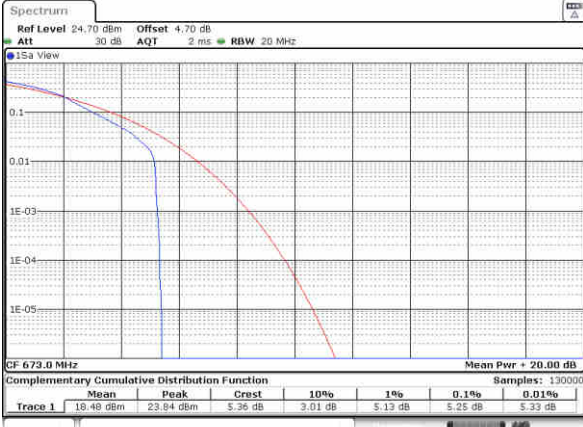
Date: 6 FEB 2020 02:40:05





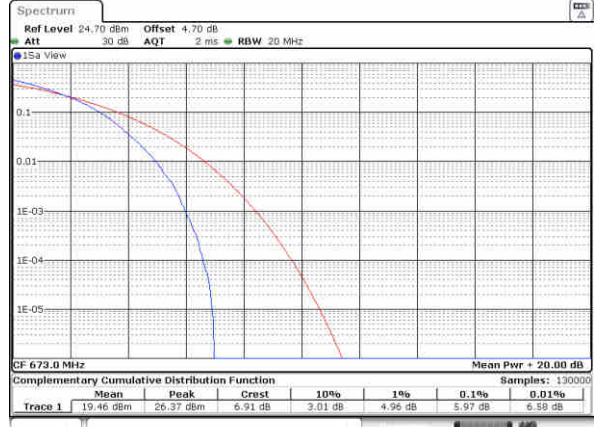
LTE Band 71 / 20MHz / 16QAM

Lowest Channel / 1RB



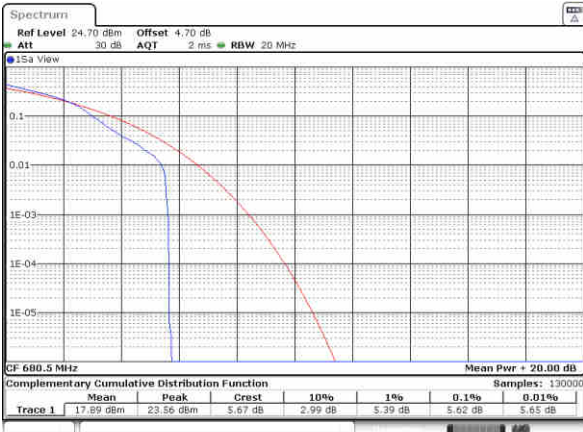
Date: 6 FEB 2020 02:31:38

Lowest Channel / Full RB



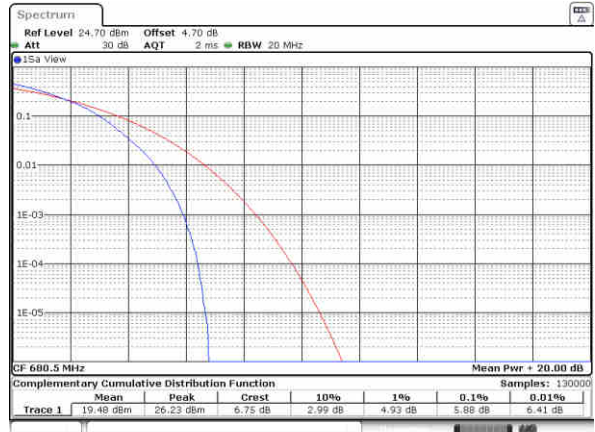
Date: 6 FEB 2020 02:28:14

Middle Channel / 1RB



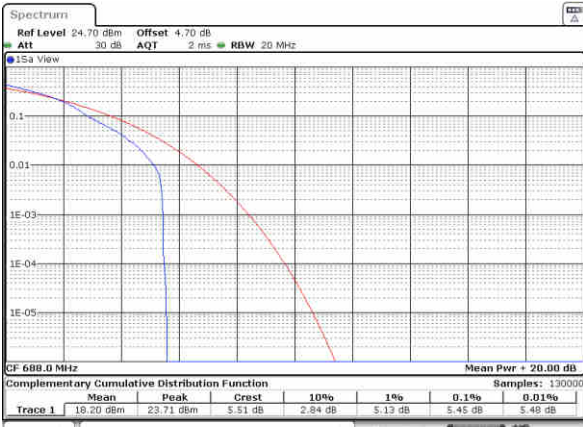
Date: 6 FEB 2020 02:34:45

Middle Channel / Full RB



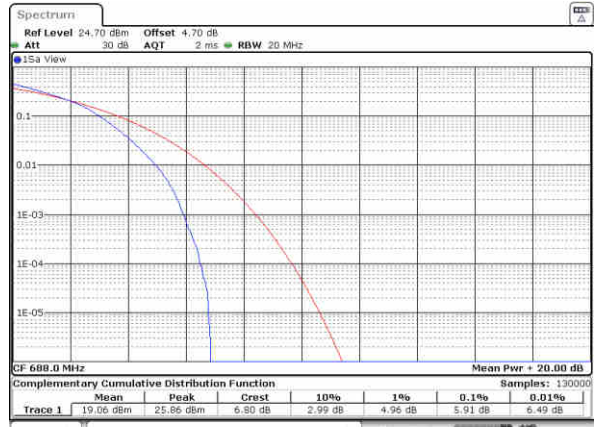
Date: 6 FEB 2020 02:36:28

Highest Channel / 1RB



Date: 6 FEB 2020 02:41:44

Highest Channel / Full RB



Date: 6 FEB 2020 02:38:59



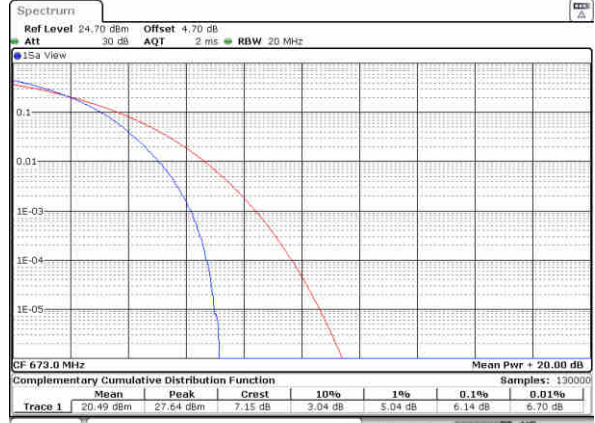
LTE Band 71 / 20MHz / 64QAM

Lowest Channel / 1RB



Date: 6 FEB 2020 02:33:05

Lowest Channel / Full RB



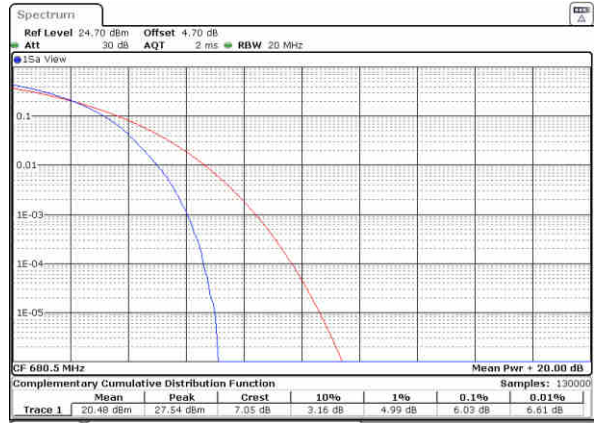
Date: 6 FEB 2020 02:27:03

Middle Channel / 1RB



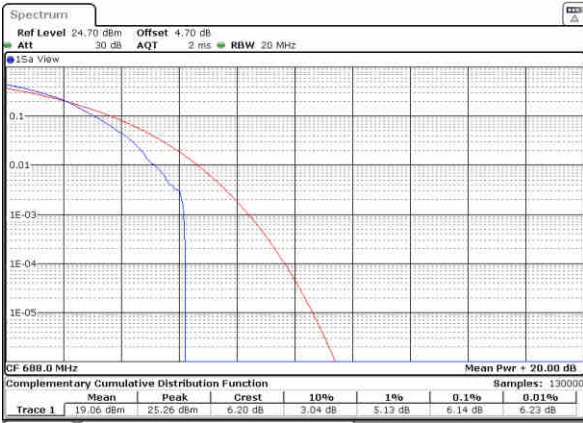
Date: 6 FEB 2020 02:34:31

Middle Channel / Full RB



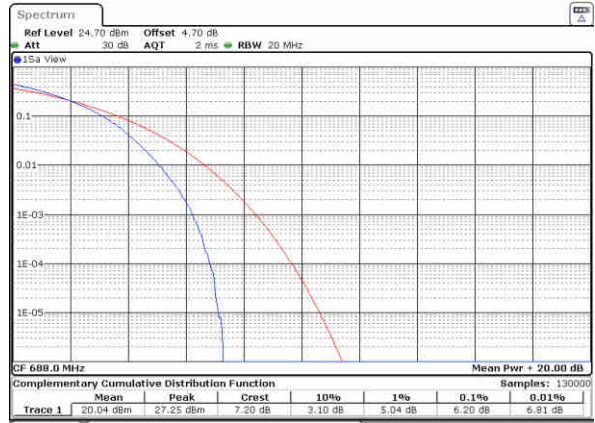
Date: 6 FEB 2020 02:37:06

Highest Channel / 1RB



Date: 6 FEB 2020 02:42:34

Highest Channel / Full RB



Date: 6 FEB 2020 02:37:52



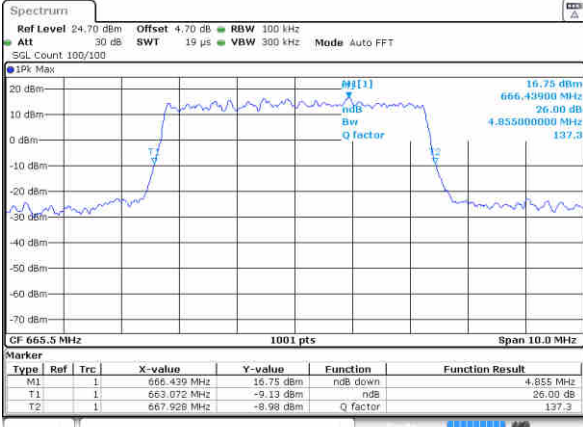
26dB Bandwidth

Mode	LTE Band 71 : 26dB BW(MHz)											
BW	-		-		5MHz		10MHz		15MHz		20MHz	
Mod.	-	-	-	-	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.86	4.93	9.85	9.69	14.57	14.48	19.02	19.06
Middle CH	-	-	-	-	4.74	4.93	9.75	9.79	14.39	14.57	18.94	18.70
Highest CH	-	-	-	-	4.98	4.81	9.73	10.07	14.24	14.36	19.14	19.22
Mode	LTE Band 71 : 26dB BW(MHz)											
BW	-		-		5MHz		10MHz		15MHz		20MHz	
Mod.	-	-	-	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-
Lowest CH	-	-	-	-	4.92	-	9.89	-	14.39	-	19.14	-
Middle CH	-	-	-	-	4.90	-	9.77	-	14.60	-	19.10	-
Highest CH	-	-	-	-	4.93	-	9.73	-	14.66	-	19.34	-



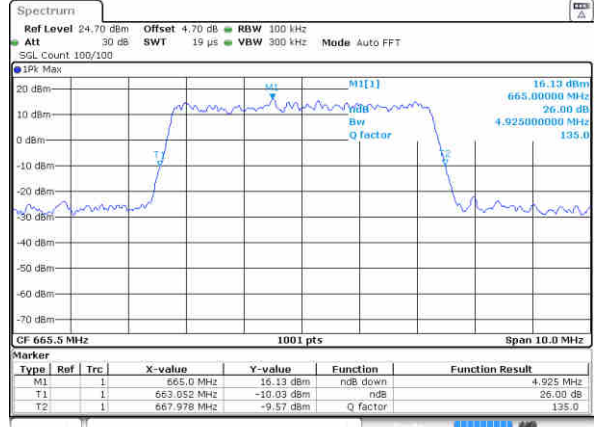
LTE Band 71

Lowest Channel / 5MHz / QPSK



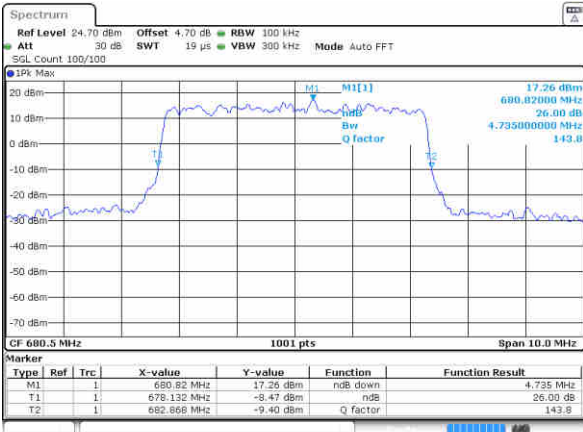
Date: 6 FEB 2020 00:58:54

Lowest Channel / 5MHz / 16QAM



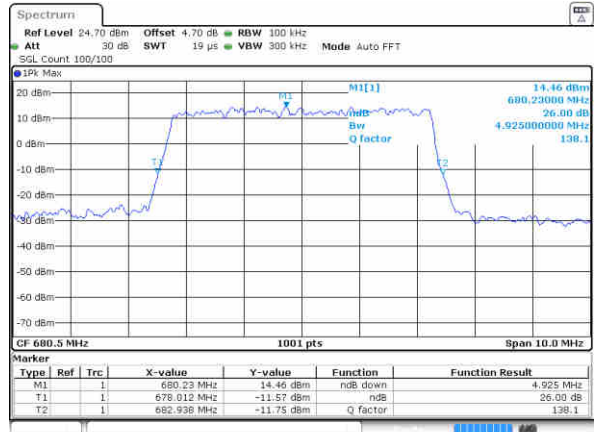
Date: 6 FEB 2020 00:59:55

Middle Channel / 5MHz / QPSK



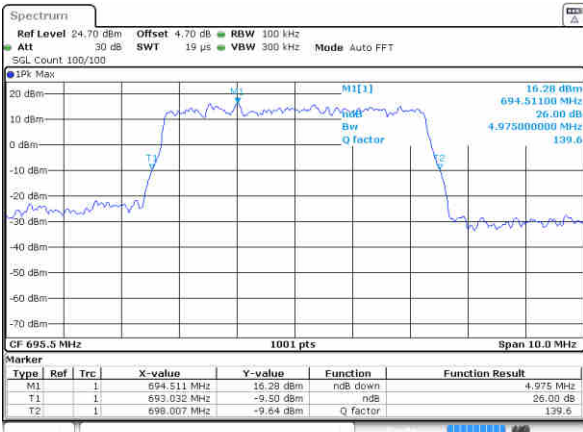
Date: 6 FEB 2020 01:11:15

Middle Channel / 5MHz / 16QAM



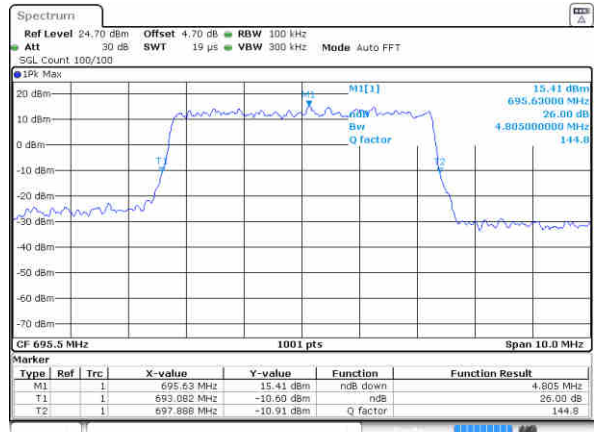
Date: 6 FEB 2020 01:10:58

Highest Channel / 5MHz / QPSK



Date: 6 FEB 2020 01:12:41

Highest Channel / 5MHz / 16QAM

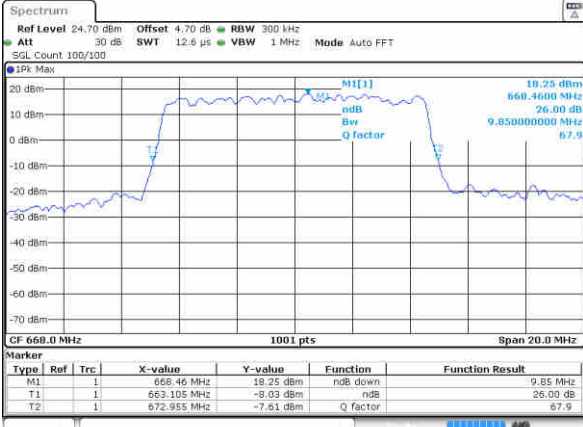


Date: 6 FEB 2020 01:13:46



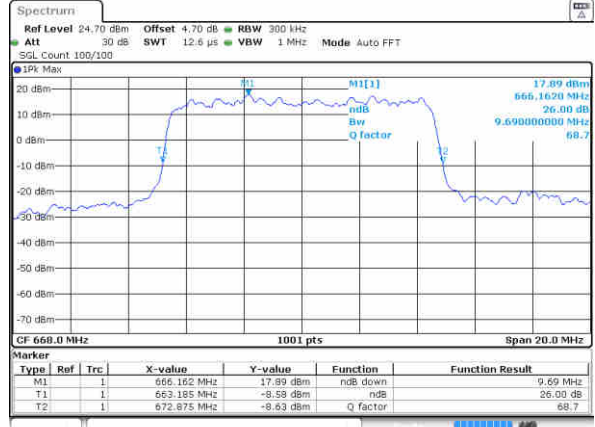
LTE Band 71

Lowest Channel / 10MHz / QPSK



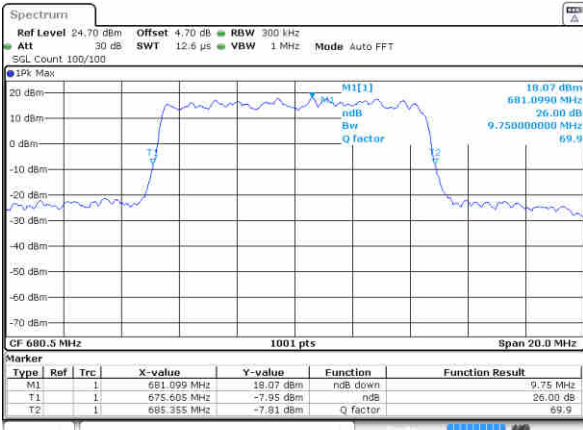
Date: 6 FEB 2020 01:21:44

Lowest Channel / 10MHz / 16QAM



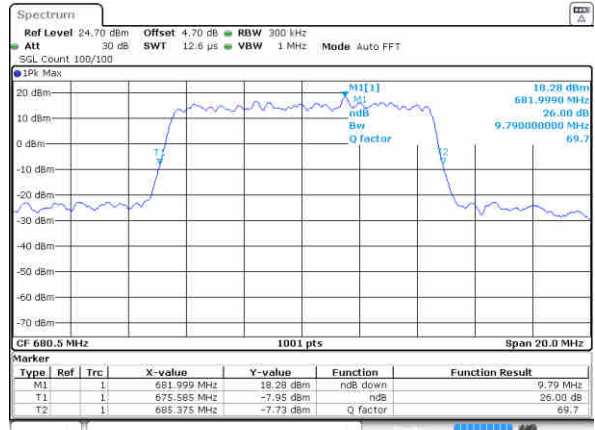
Date: 6 FEB 2020 01:20:47

Middle Channel / 10MHz / QPSK



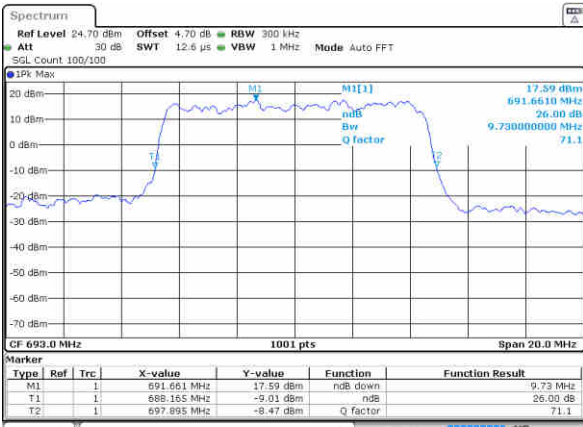
Date: 6 FEB 2020 01:33:35

Middle Channel / 10MHz / 16QAM



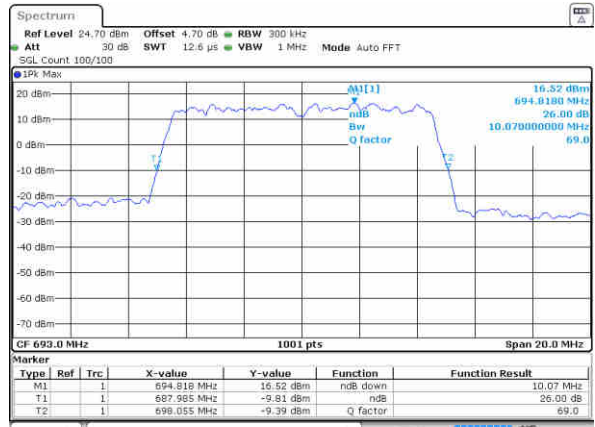
Date: 6 FEB 2020 01:33:52

Highest Channel / 10MHz / QPSK



Date: 6 FEB 2020 01:36:27

Highest Channel / 10MHz / 16QAM

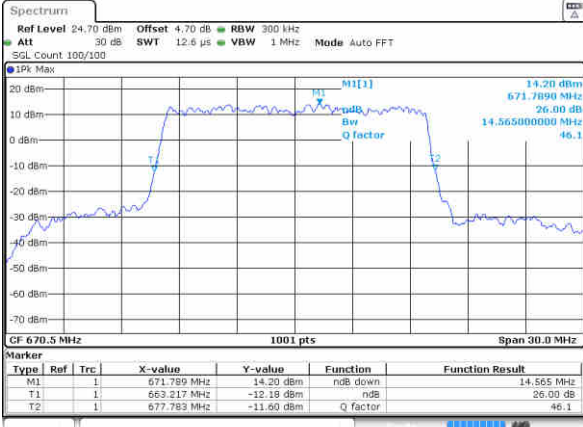


Date: 6 FEB 2020 01:35:52



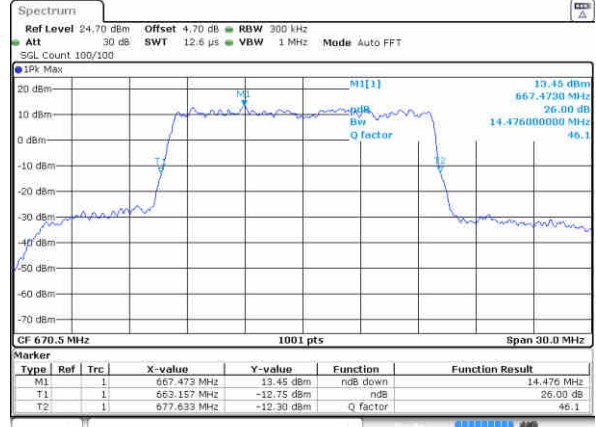
LTE Band 71

Lowest Channel / 15MHz / QPSK



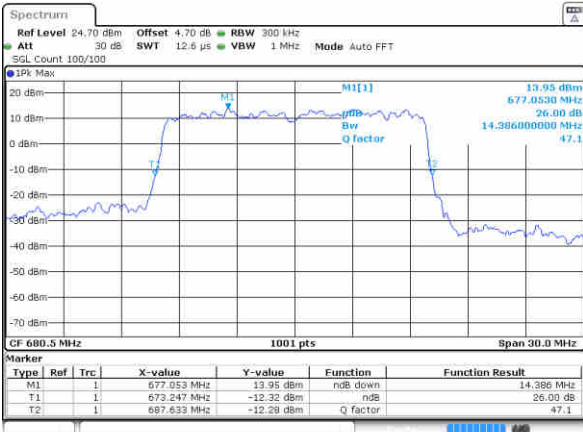
Date: 6 FEB 2020 02:04:29

Lowest Channel / 15MHz / 16QAM



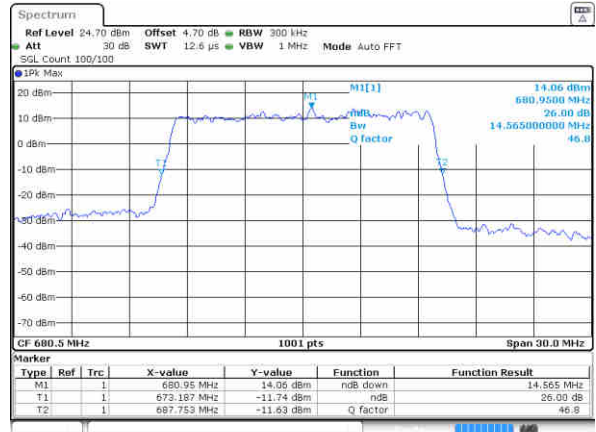
Date: 6 FEB 2020 02:05:21

Middle Channel / 15MHz / QPSK



Date: 6 FEB 2020 02:16:38

Middle Channel / 15MHz / 16QAM



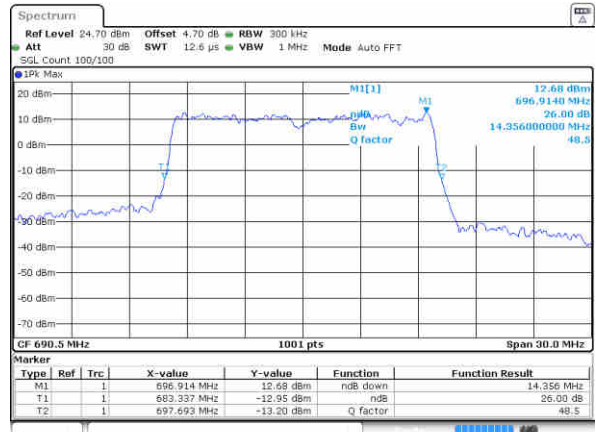
Date: 6 FEB 2020 02:16:22

Highest Channel / 15MHz / QPSK



Date: 6 FEB 2020 02:17:16

Highest Channel / 15MHz / 16QAM

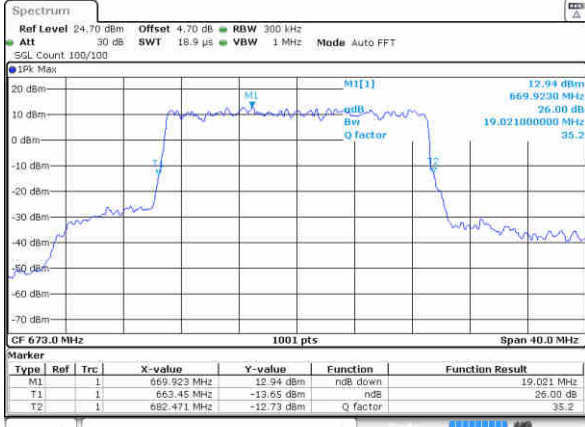


Date: 6 FEB 2020 02:18:18



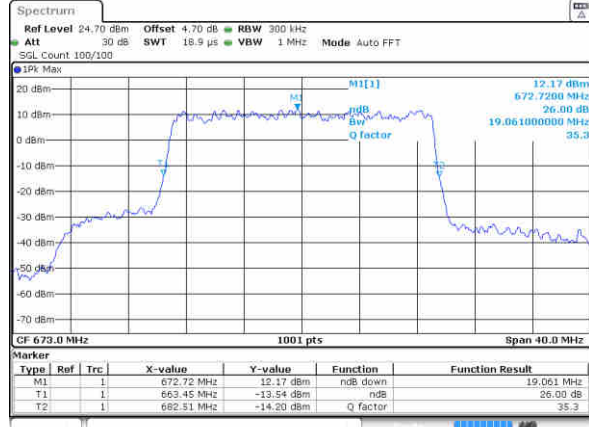
LTE Band 71

Lowest Channel / 20MHz / QPSK



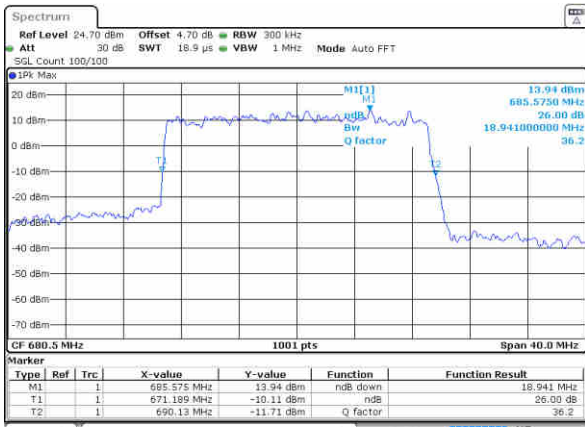
Date: 6 FEB 2020 02:29:33

Lowest Channel / 20MHz / 16QAM



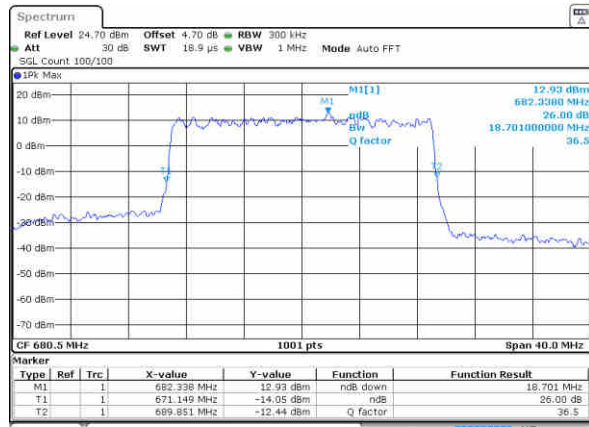
Date: 6 FEB 2020 02:28:27

Middle Channel / 20MHz / QPSK



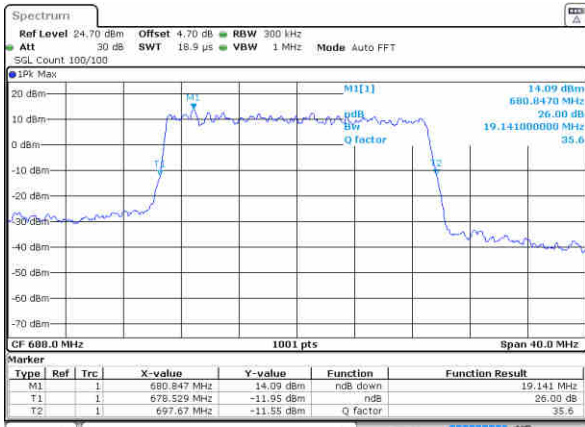
Date: 6 FEB 2020 02:36:09

Middle Channel / 20MHz / 16QAM



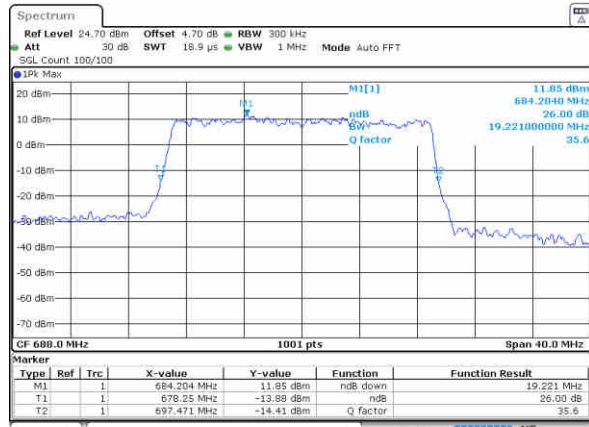
Date: 6 FEB 2020 02:36:46

Highest Channel / 20MHz / QPSK



Date: 6 FEB 2020 02:40:18

Highest Channel / 20MHz / 16QAM

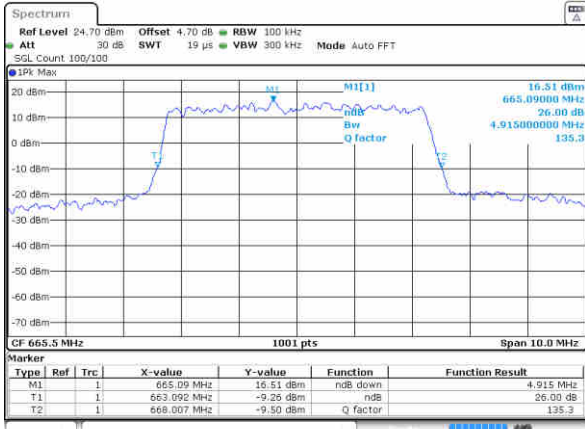


Date: 6 FEB 2020 02:39:11



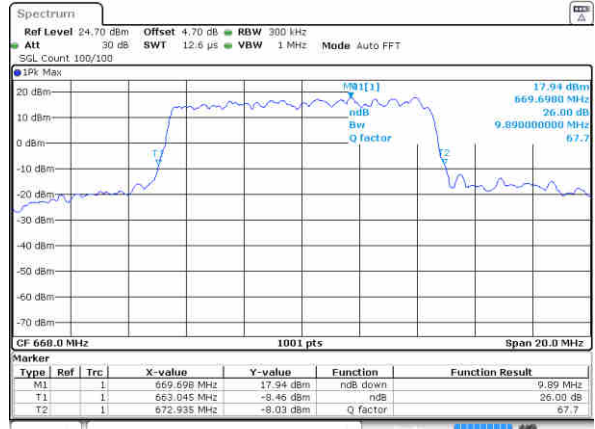
LTE Band 71

Lowest Channel / 5MHz / 64QAM



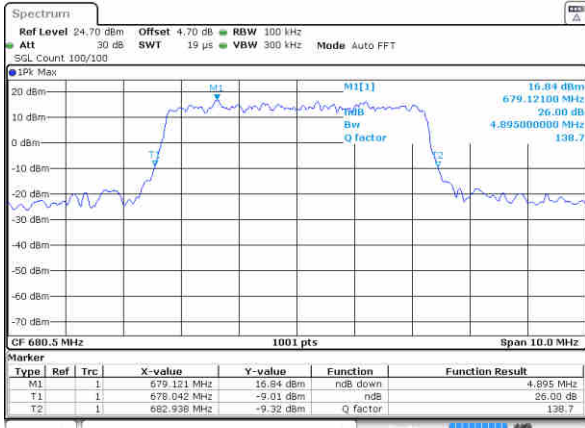
Date: 6 FEB 2020 01:01:03

Lowest Channel / 10MHz / 64QAM



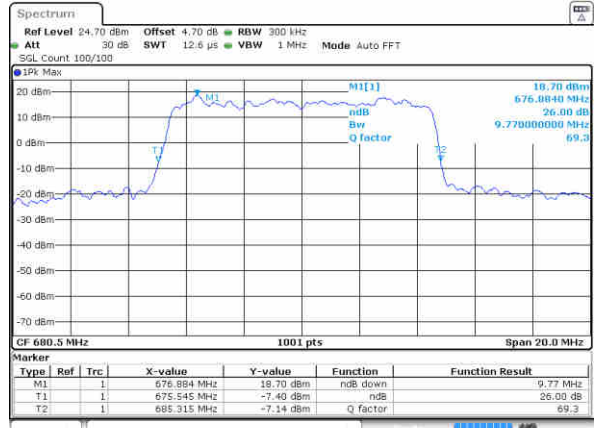
Date: 6 FEB 2020 01:19:54

Middle Channel / 5MHz / 64QAM



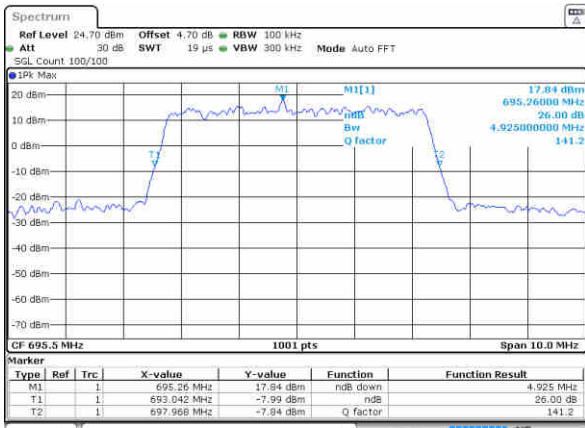
Date: 6 FEB 2020 01:09:31

Middle Channel / 10MHz / 64QAM



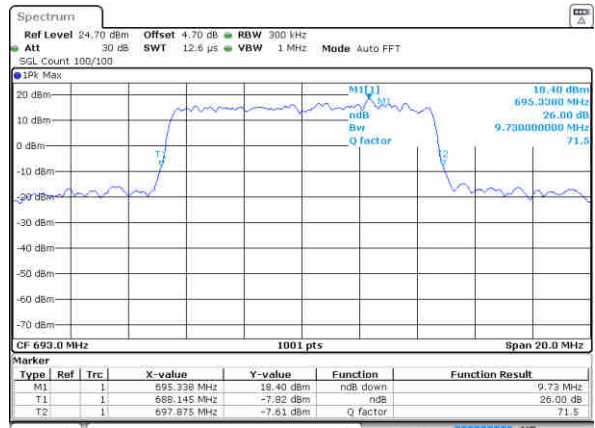
Date: 6 FEB 2020 01:34:09

Highest Channel / 5MHz / 64QAM



Date: 6 FEB 2020 01:14:46

Highest Channel / 10MHz / 64QAM



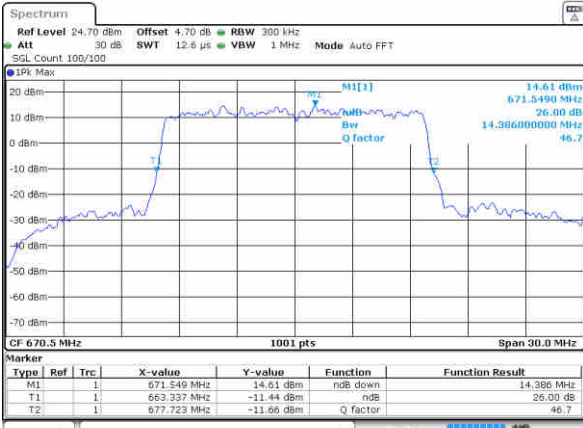
Date: 6 FEB 2020 01:34:38





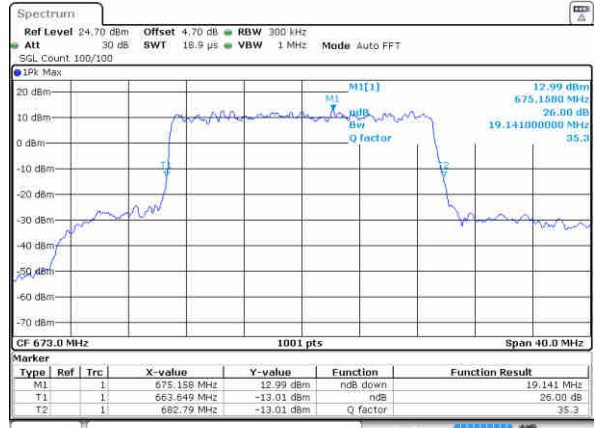
LTE Band 71

Lowest Channel / 15MHz / 64QAM



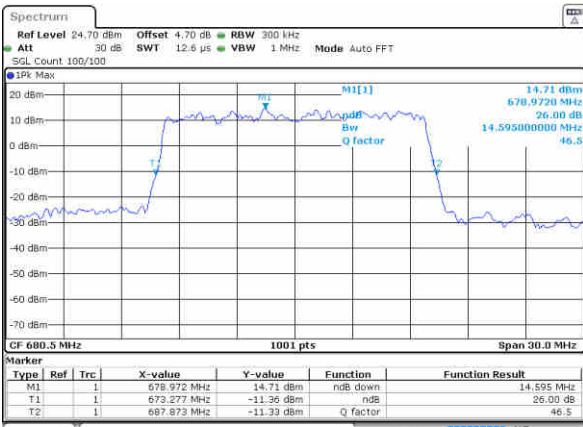
Date: 6 FEB 2020 02:06:12

Lowest Channel / 20MHz / 64QAM



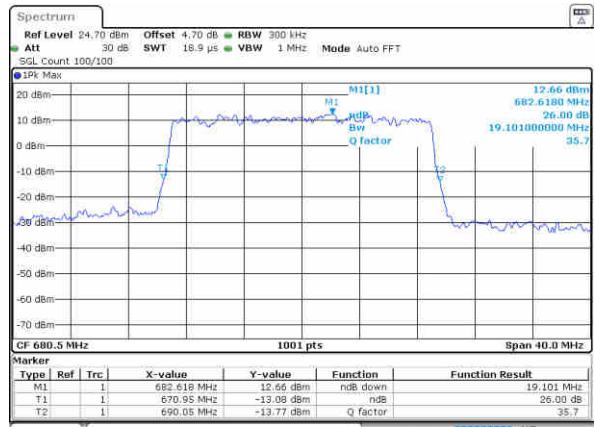
Date: 6 FEB 2020 02:27:15

Middle Channel / 15MHz / 64QAM



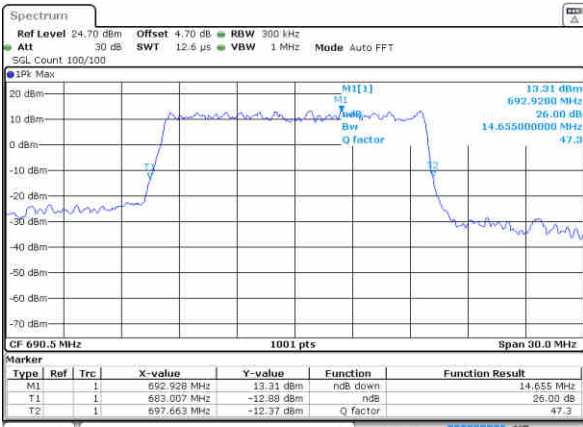
Date: 6 FEB 2020 02:16:07

Middle Channel / 20MHz / 64QAM



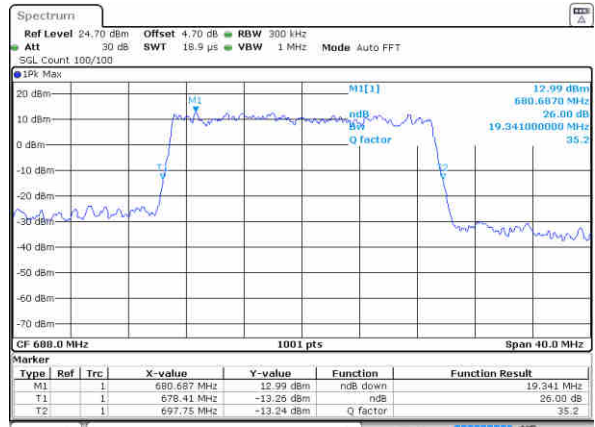
Date: 6 FEB 2020 02:37:19

Highest Channel / 15MHz / 64QAM



Date: 6 FEB 2020 02:19:16

Highest Channel / 20MHz / 64QAM



Date: 6 FEB 2020 02:38:05



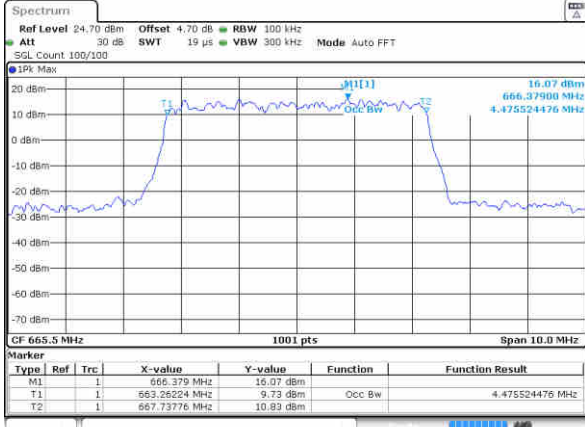
Occupied Bandwidth

Mode	LTE Band 71 : 99%OBW(MHz)											
BW	-		-		5MHz		10MHz		15MHz		20MHz	
Mod.	-	-	-	-	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.48	4.48	8.97	9.01	13.43	13.43	17.90	17.90
Middle CH	-	-	-	-	4.50	4.47	8.99	8.95	13.46	13.43	17.82	17.86
Highest CH	-	-	-	-	4.51	4.50	8.99	9.01	13.46	13.43	17.86	17.86
Mode	LTE Band 71 : 99%OBW(MHz)											
BW	-		-		5MHz		10MHz		15MHz		20MHz	
Mod.	-	-	-	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-
Lowest CH	-	-	-	-	4.52	-	9.03	-	13.34	-	17.82	-
Middle CH	-	-	-	-	4.50	-	8.99	-	13.37	-	17.78	-
Highest CH	-	-	-	-	4.49	-	9.03	-	13.46	-	17.86	-



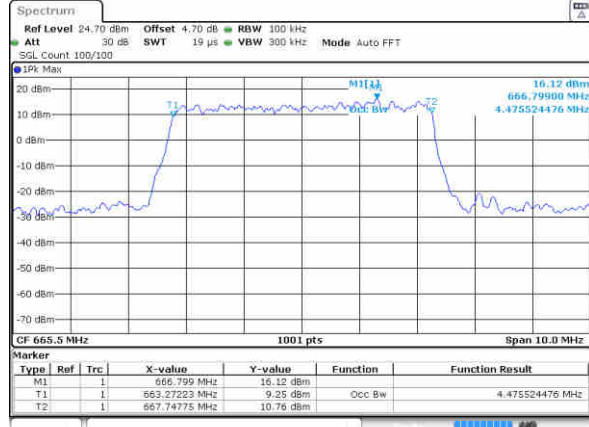
LTE Band 71

Lowest Channel / 5MHz / QPSK



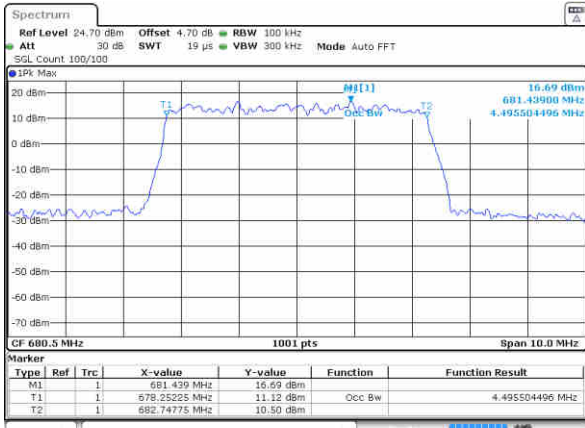
Date: 6 FEB 2020 00:58:45

Lowest Channel / 5MHz / 16QAM



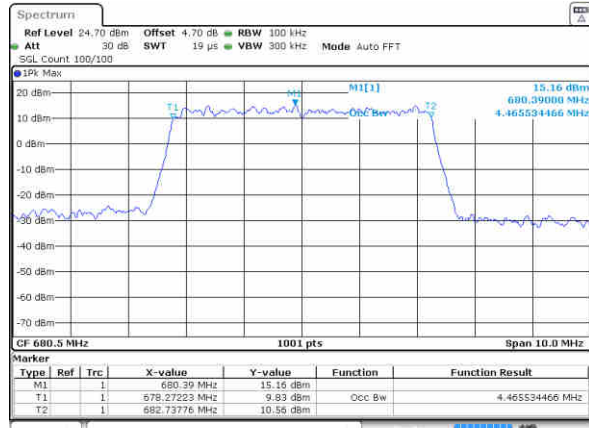
Date: 6 FEB 2020 00:59:50

Middle Channel / 5MHz / QPSK



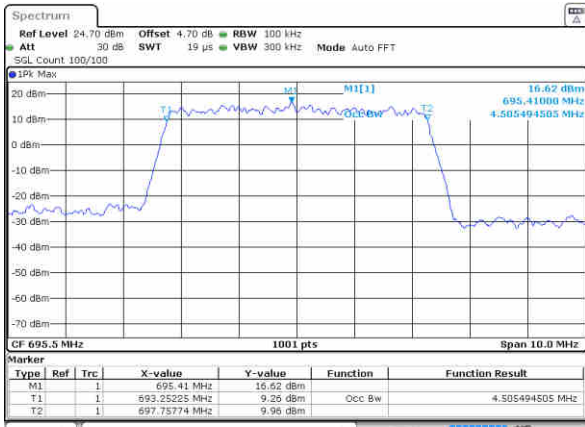
Date: 6 FEB 2020 01:11:10

Middle Channel / 5MHz / 16QAM



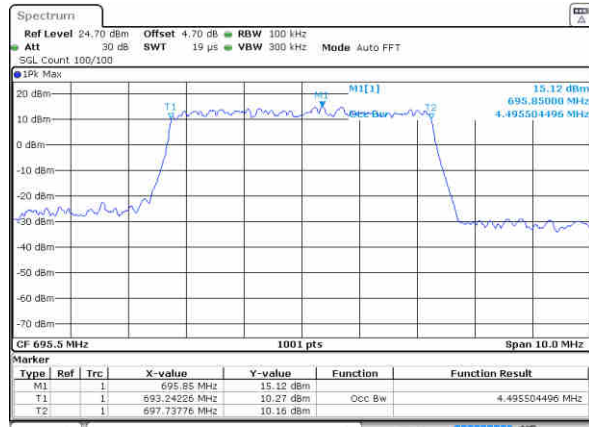
Date: 6 FEB 2020 01:10:52

Highest Channel / 5MHz / QPSK



Date: 6 FEB 2020 01:12:34

Highest Channel / 5MHz / 16QAM



Date: 6 FEB 2020 01:13:39