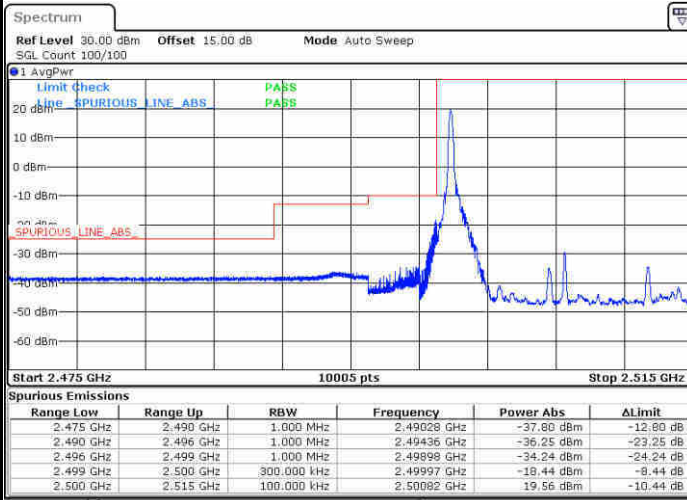


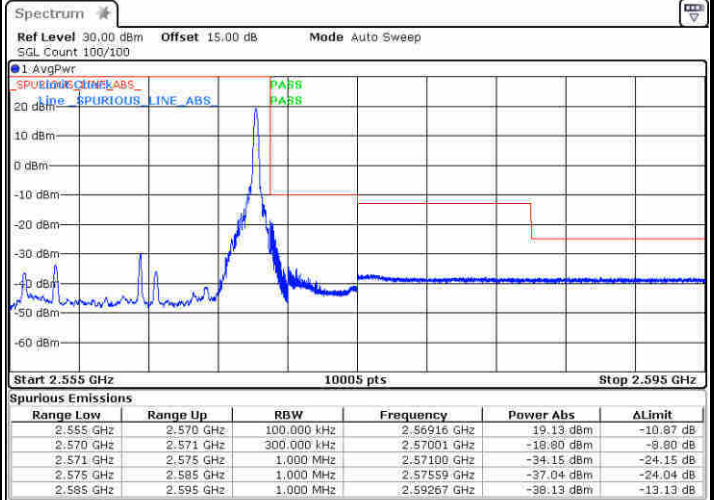


LTE Band 7 / 15MHz / 16QAM

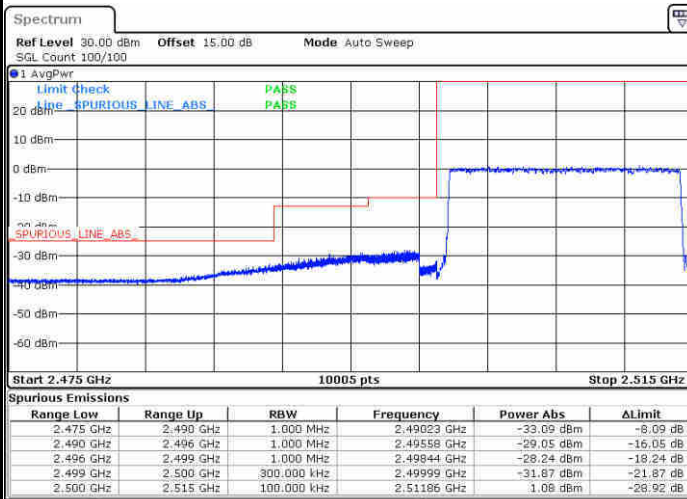
Lowest Band Edge / 1 RB



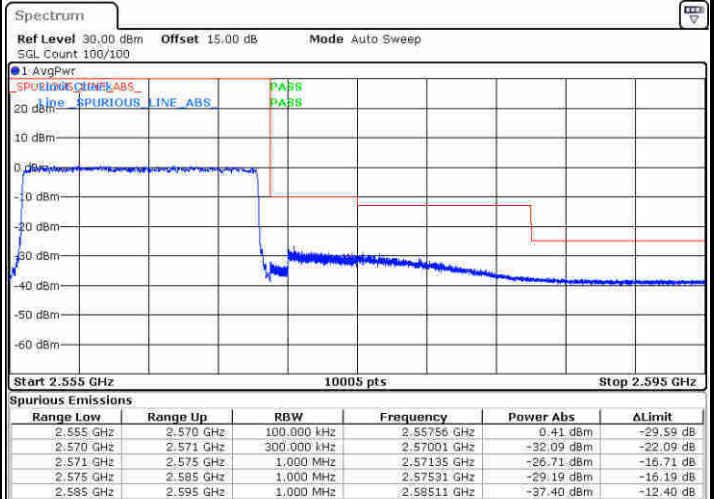
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

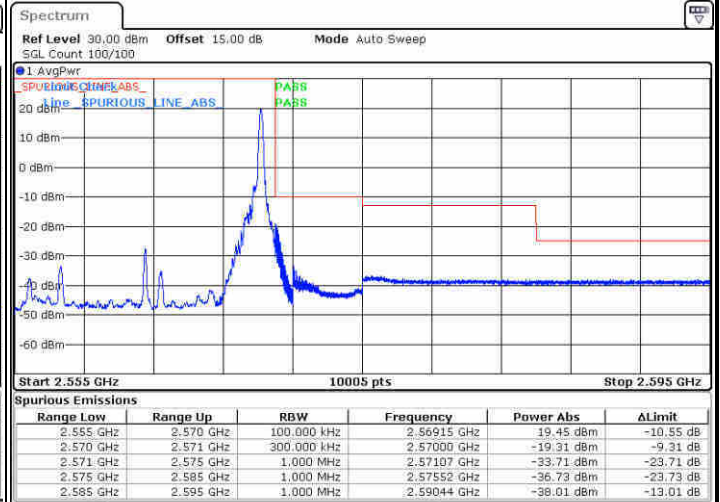
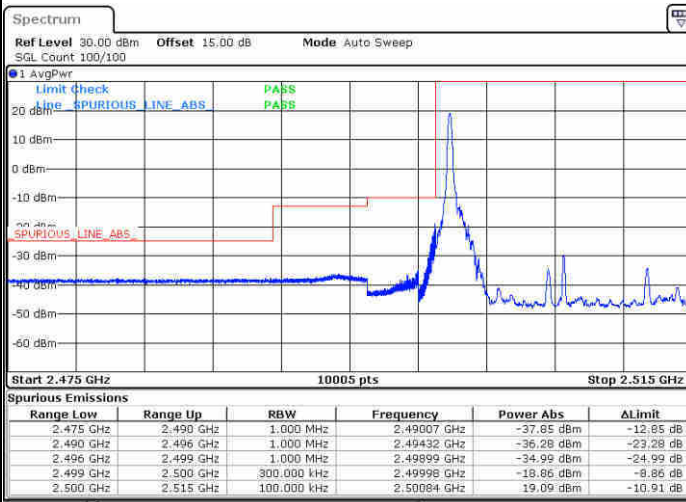




LTE Band 7 / 15MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

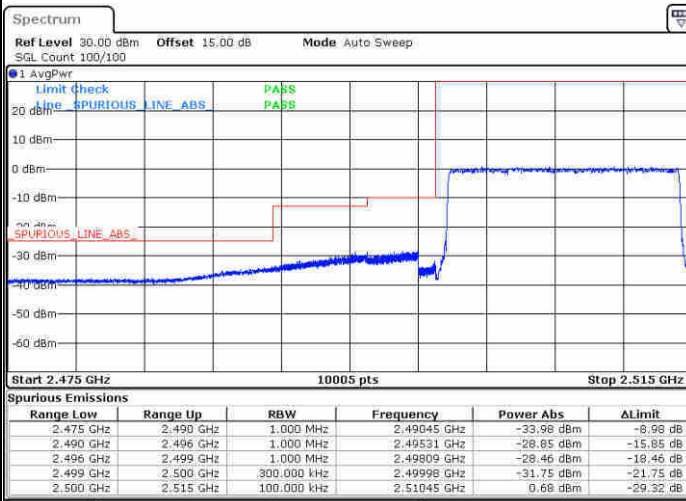


Date: 8 JUN 2020 08:40:37

Date: 8 JUN 2020 08:42:35

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 8 JUN 2020 08:41:37

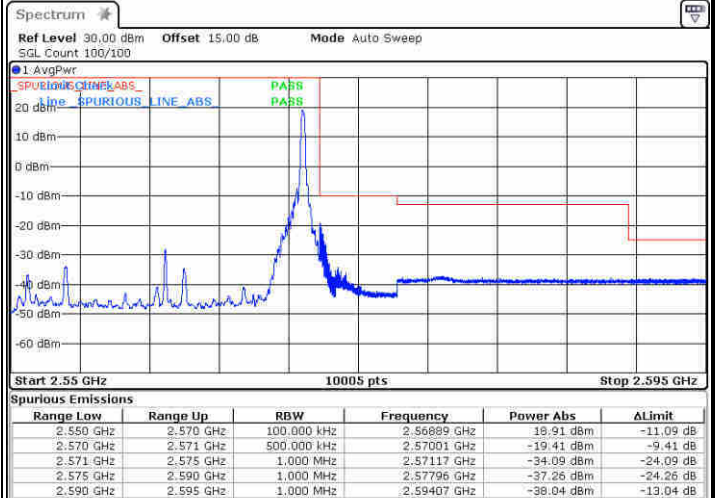
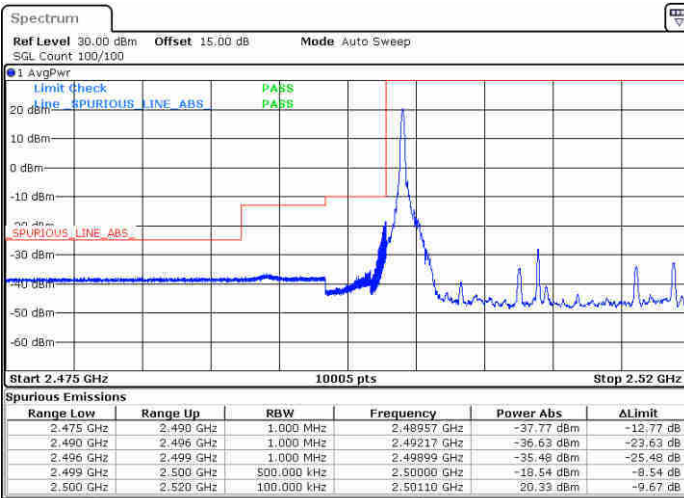
Date: 8 JUN 2020 08:43:34



LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

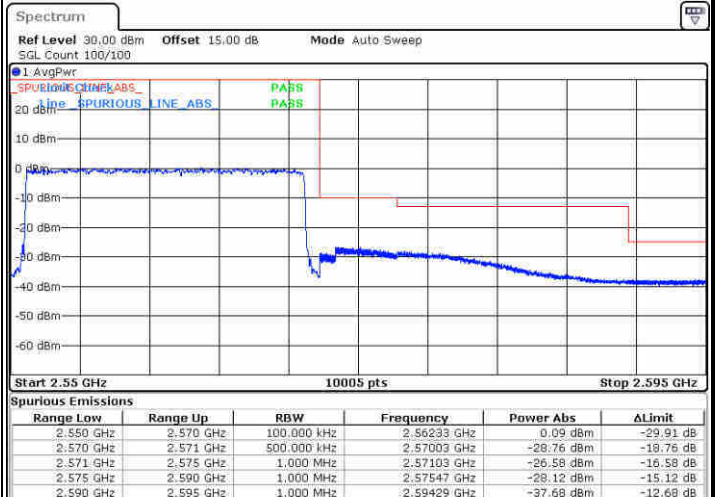
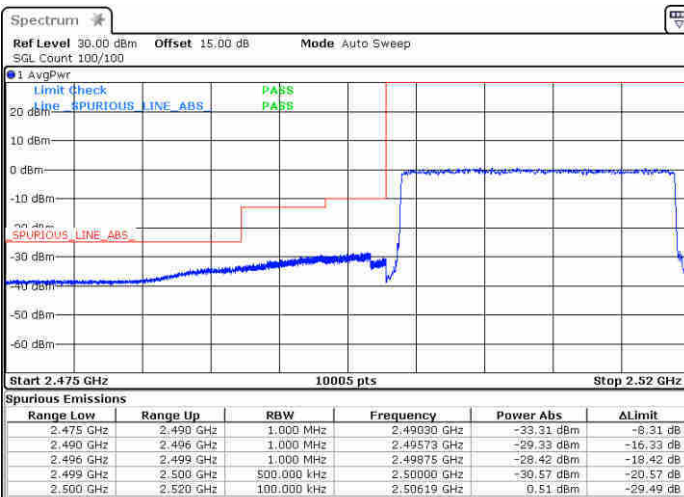


Date: 8 JUN, 2020 08:29:44

Date: 8 JUN, 2020 08:33:45

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 8 JUN, 2020 08:31:45

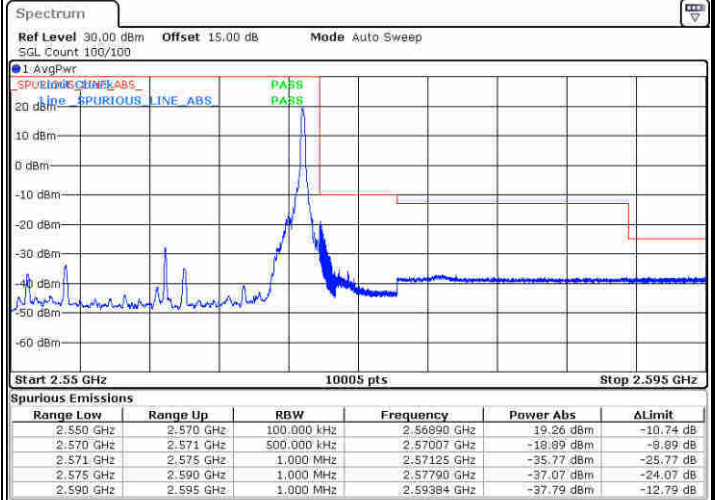
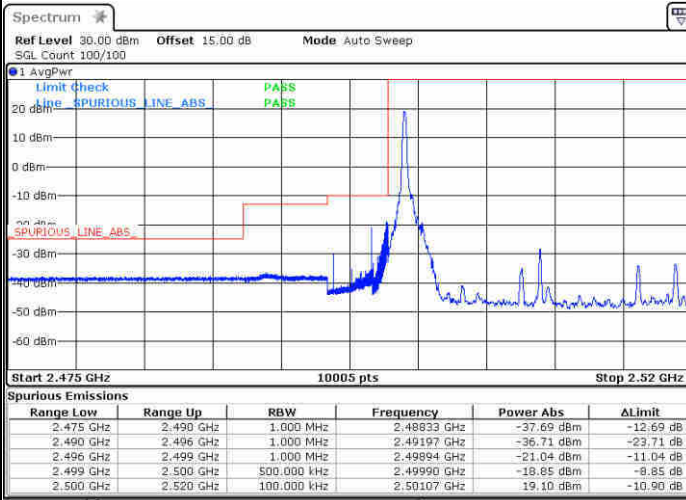
Date: 8 JUN, 2020 08:36:40



LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1RB

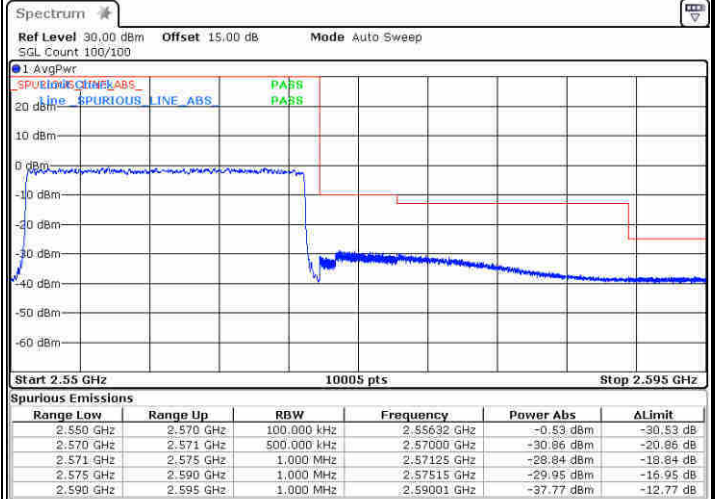
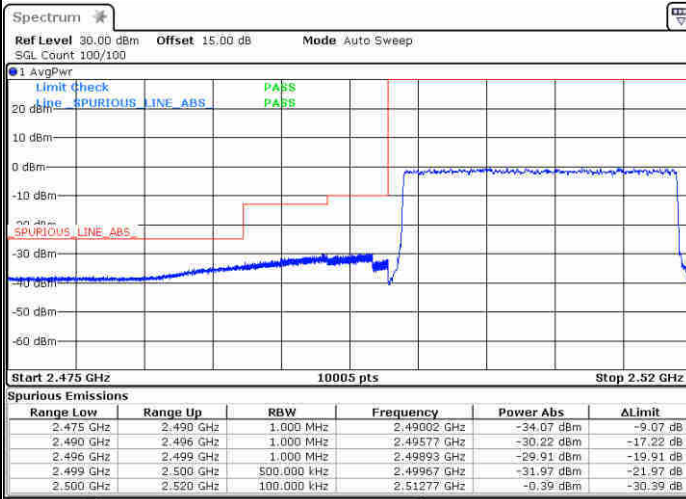


Date: 8 JUN 2020 08:30:44

Date: 8 JUN 2020 08:34:43

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 8 JUN 2020 08:32:46

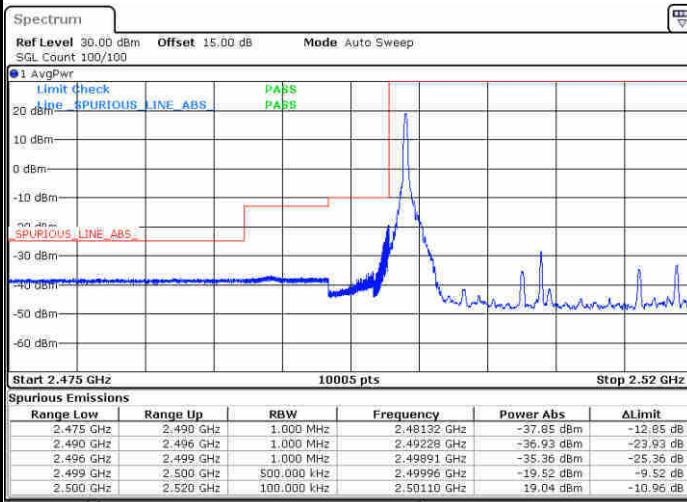
Date: 8 JUN 2020 08:35:41



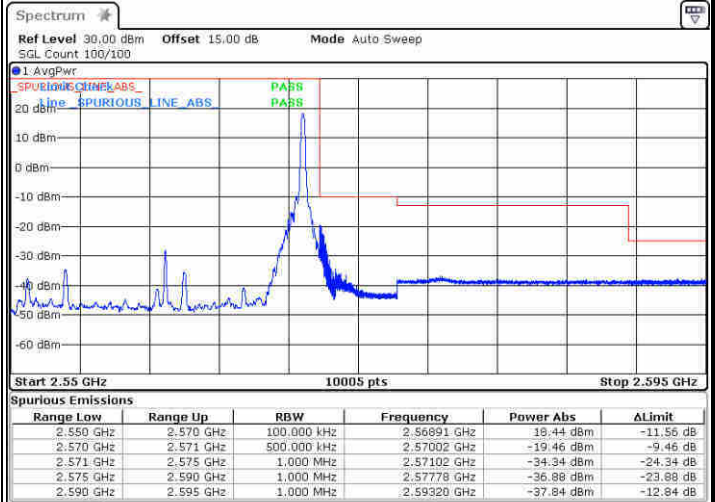


LTE Band 7 / 20MHz / 64QAM

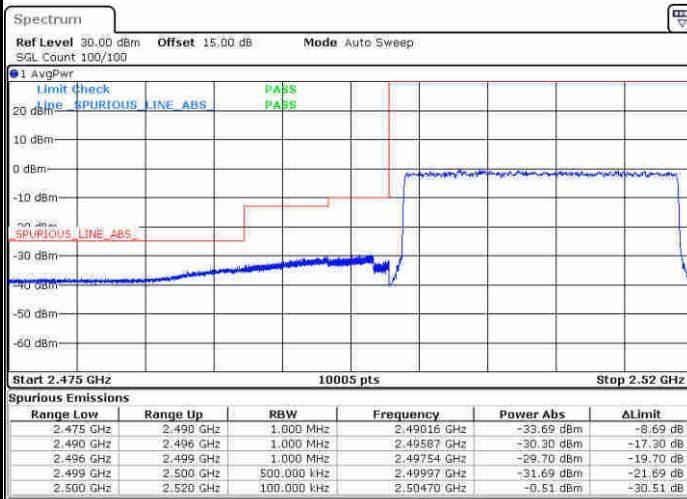
Lowest Band Edge / 1 RB



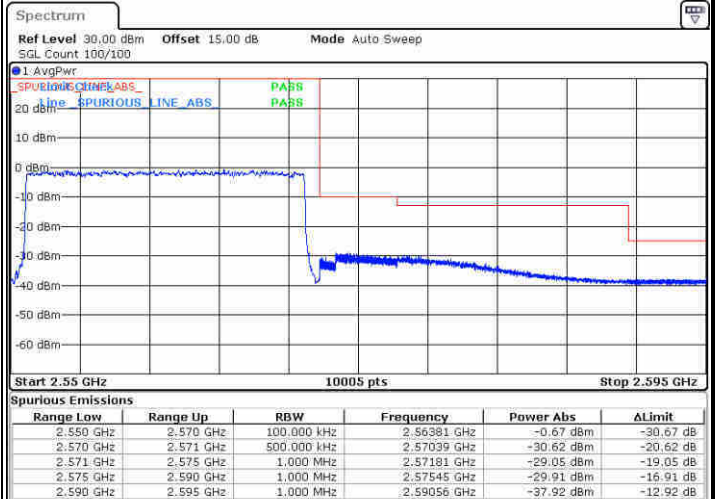
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

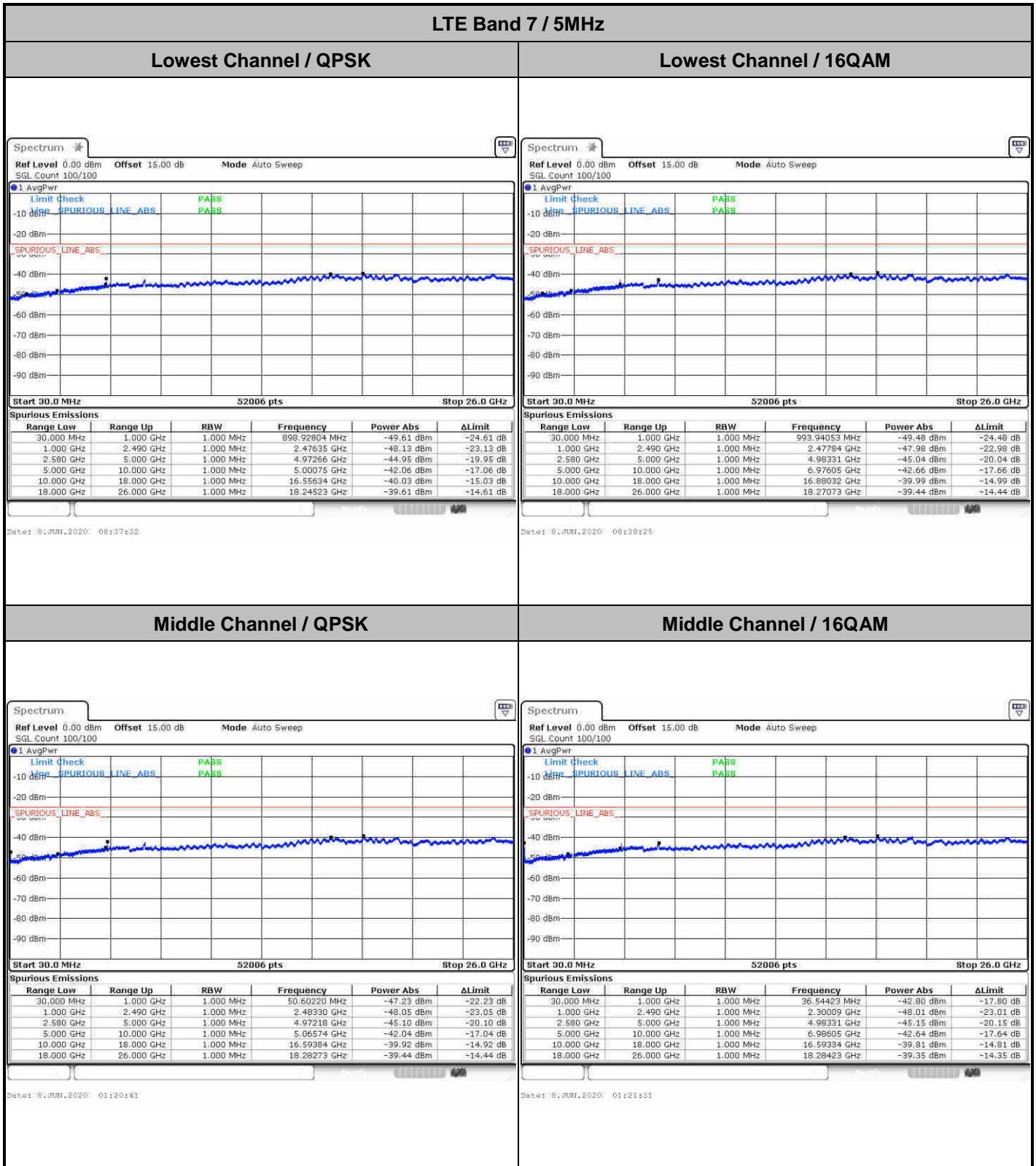


Highest Band Edge / Full RB





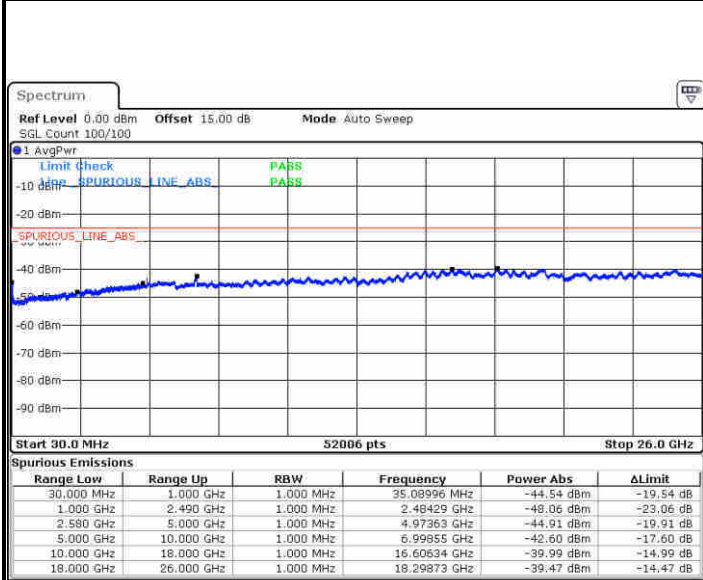
# Conducted Spurious Emission





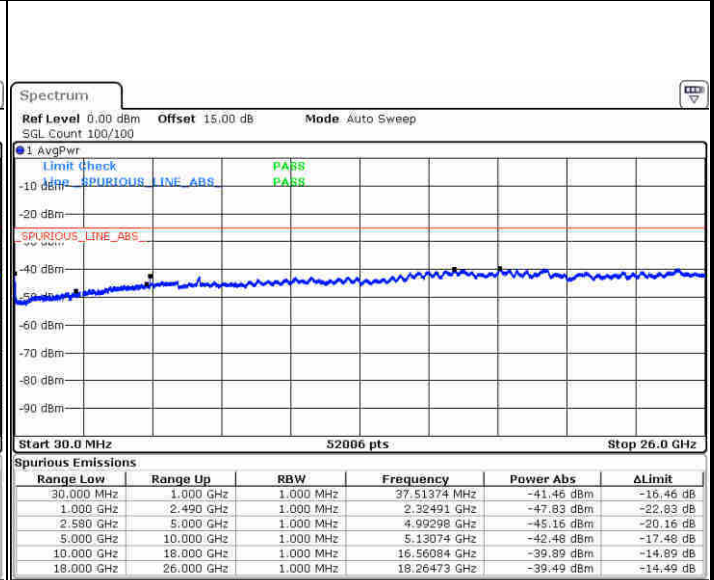
LTE Band 7 / 5MHz

Highest Channel / QPSK



Date: 01/JUN/2020 01:22:21

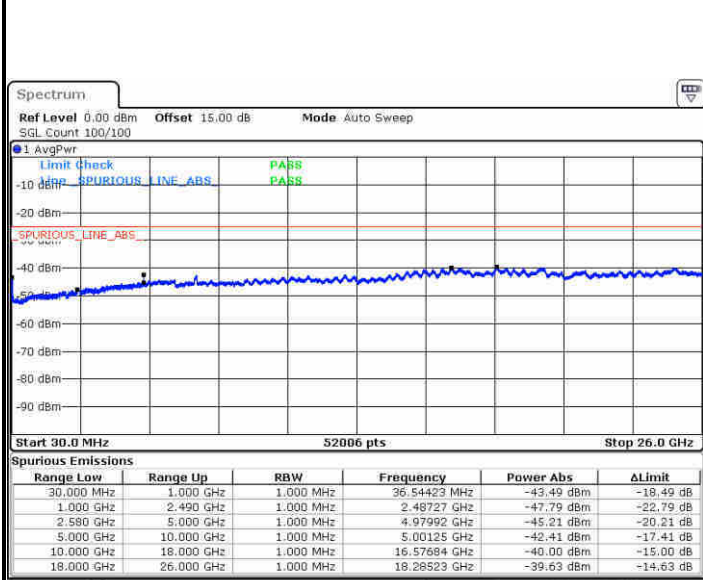
Highest Channel / 16QAM



Date: 01/JUN/2020 01:23:10

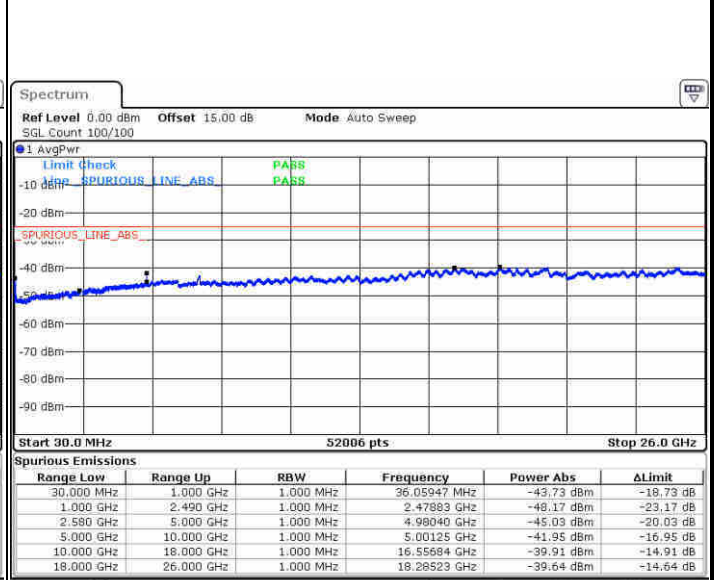
LTE Band 7 / 10MHz

Lowest Channel / QPSK



Date: 01/JUN/2020 01:24:00

Lowest Channel / 16QAM



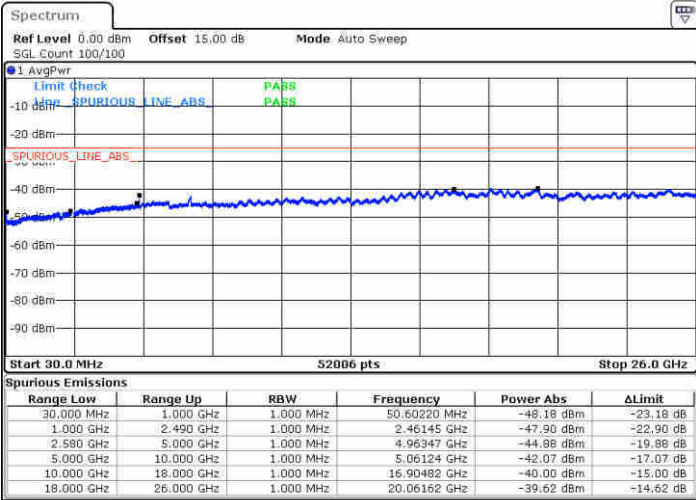
Date: 01/JUN/2020 01:24:50



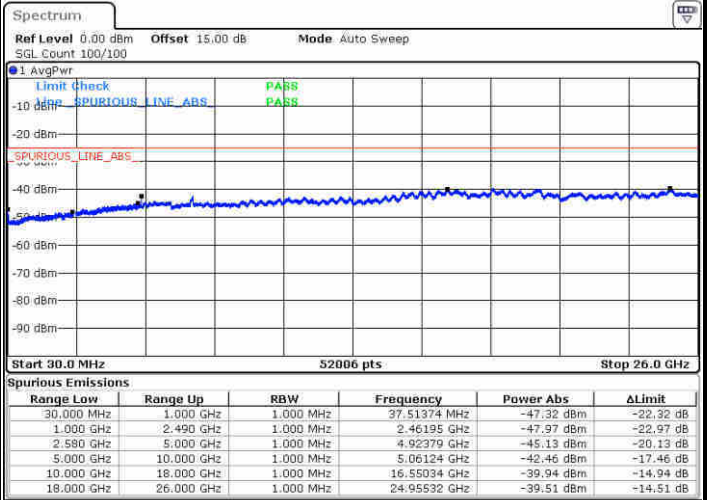
LTE Band 7 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM



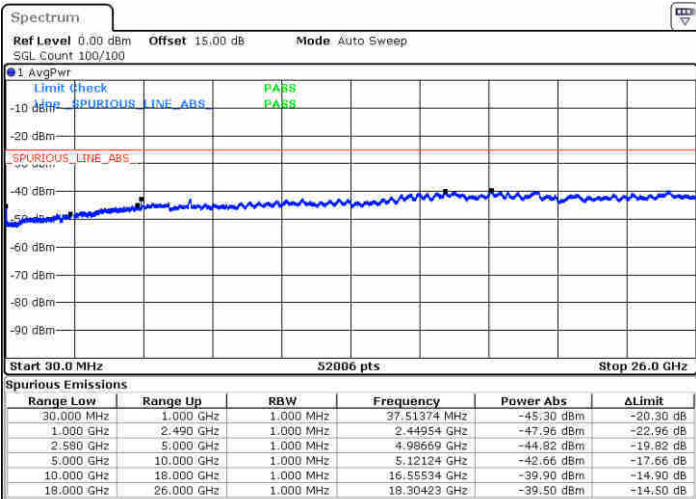
Date: 01/JUN/2020 01:25:40



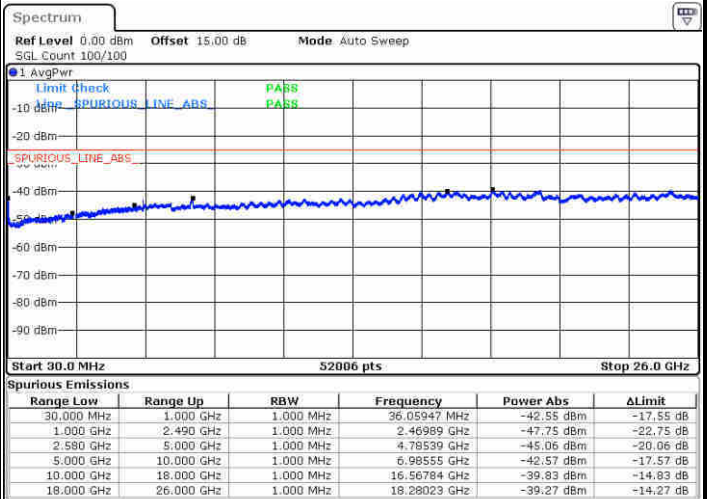
Date: 01/JUN/2020 01:26:29

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 01/JUN/2020 01:27:19



Date: 01/JUN/2020 01:28:09

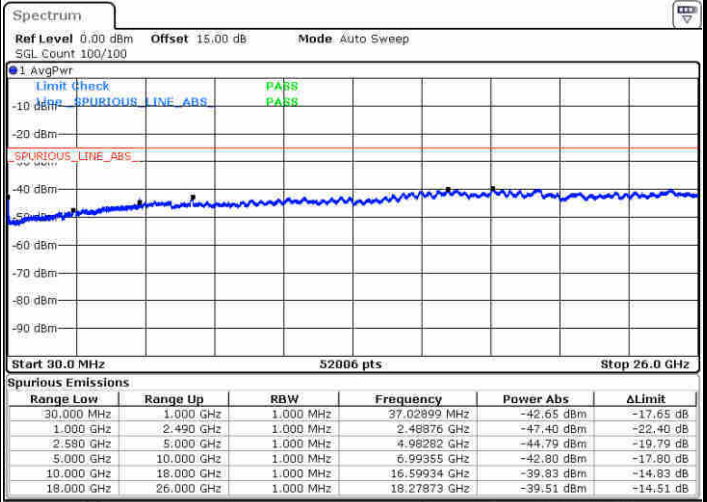
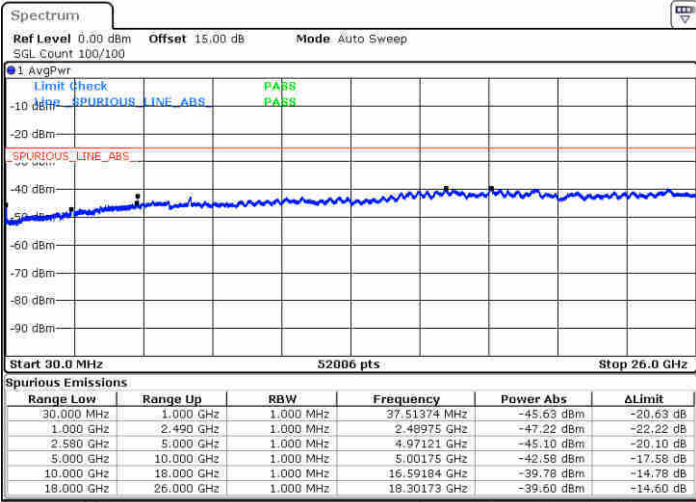




LTE Band 7 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

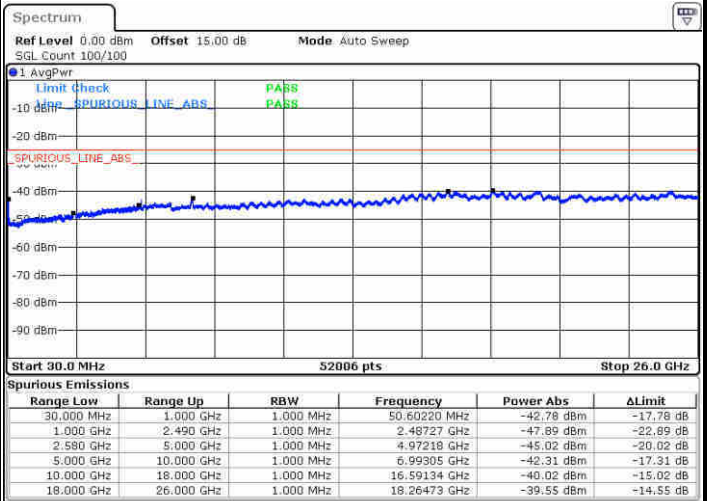
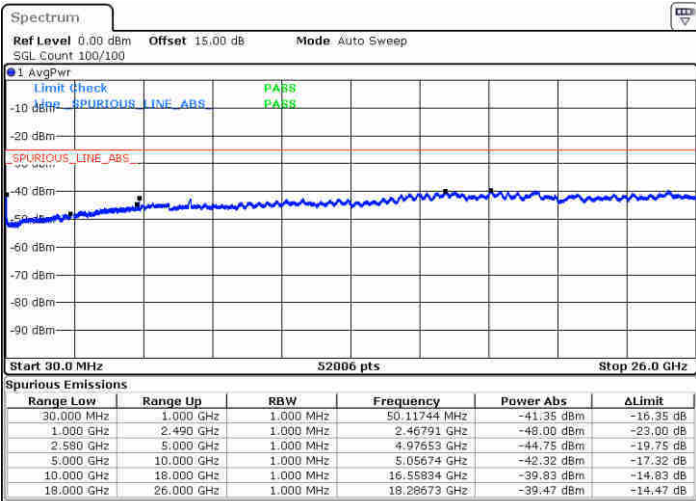


Date: 01/JUN/2020 01:28:58

Date: 01/JUN/2020 01:29:48

Middle Channel / QPSK

Middle Channel / 16QAM



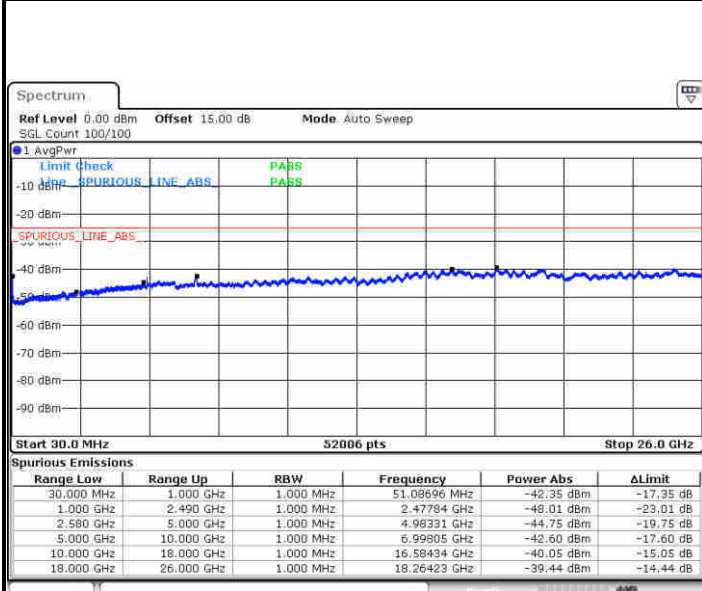
Date: 01/JUN/2020 01:30:38

Date: 01/JUN/2020 01:31:27



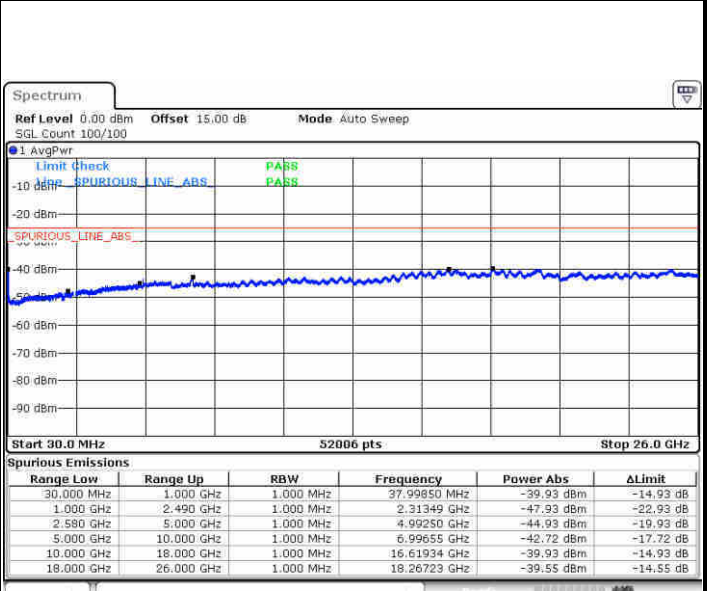
LTE Band 7 / 15MHz

Highest Channel / QPSK



Date: 01/JUN/2020 01:32:17

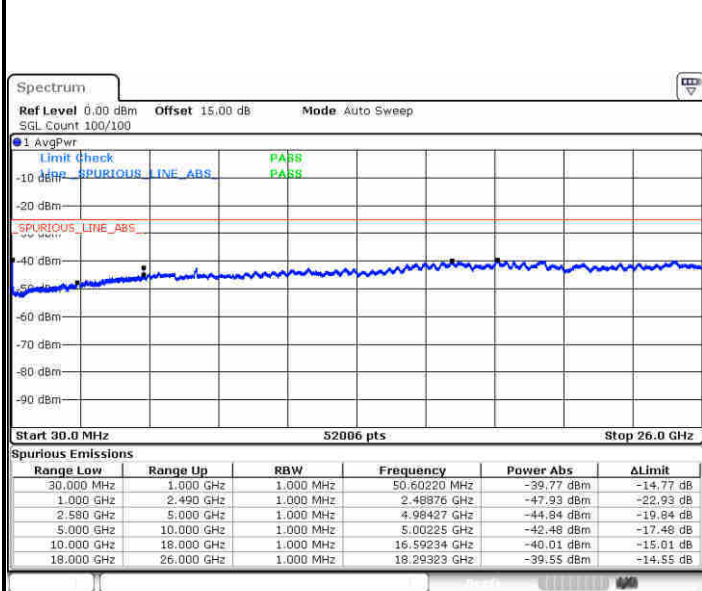
Highest Channel / 16QAM



Date: 01/JUN/2020 01:33:07

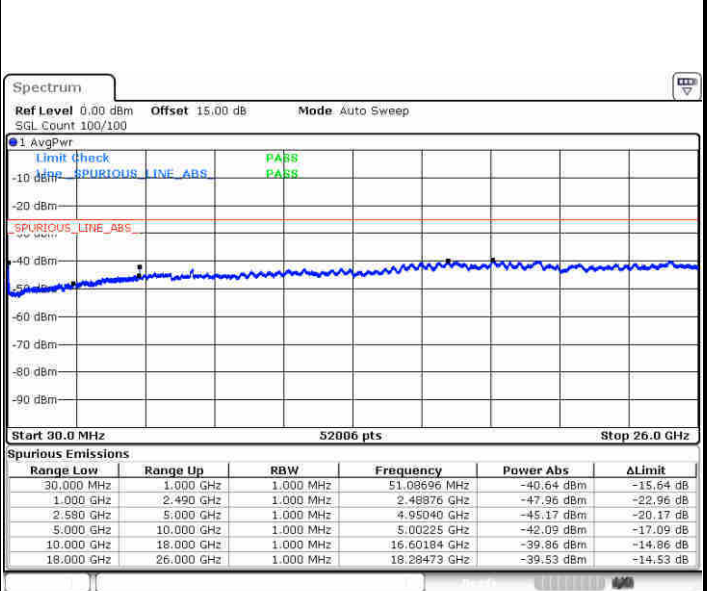
LTE Band 7 / 20MHz

Lowest Channel / QPSK

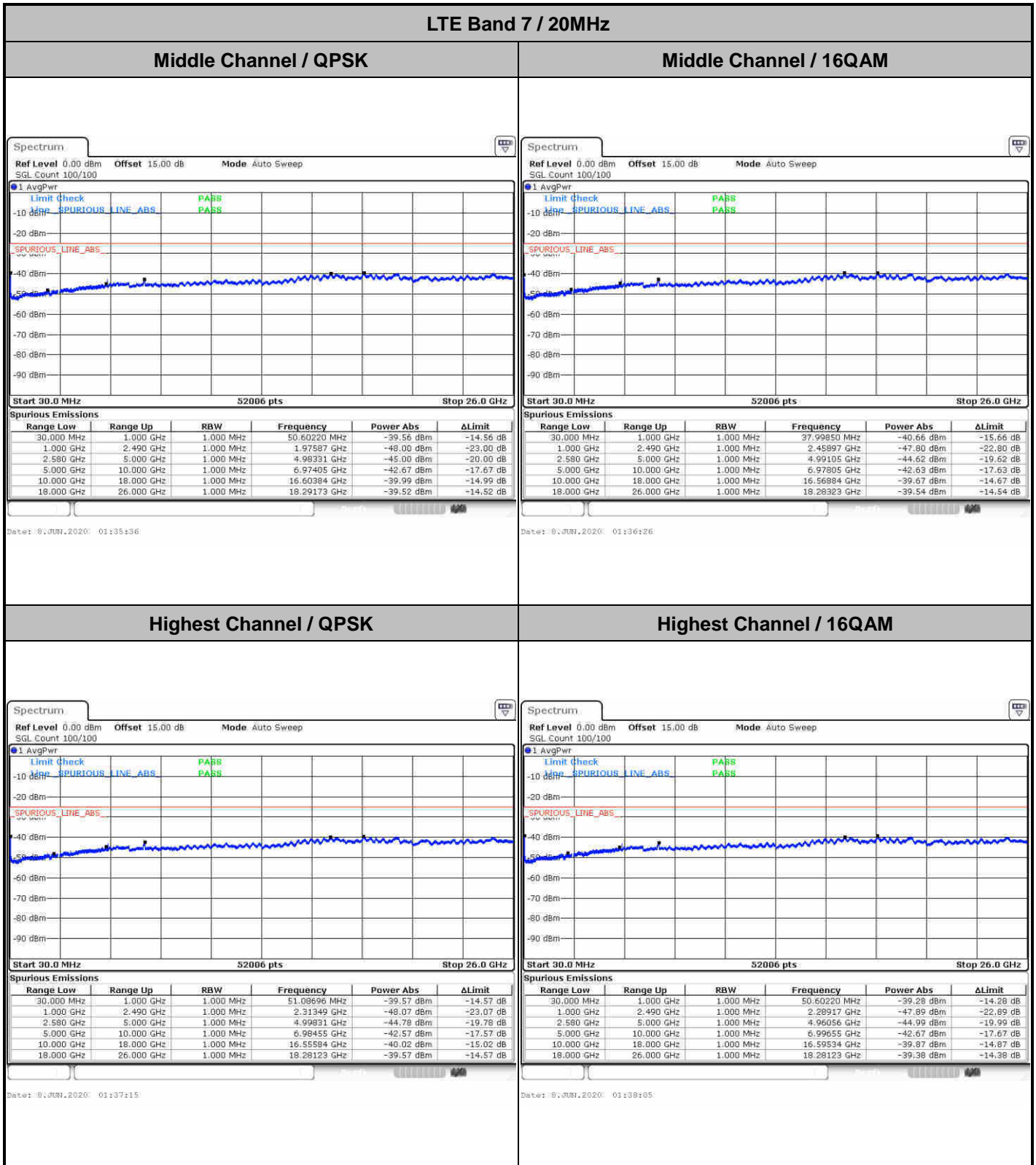


Date: 01/JUN/2020 01:33:56

Lowest Channel / 16QAM



Date: 01/JUN/2020 01:34:46

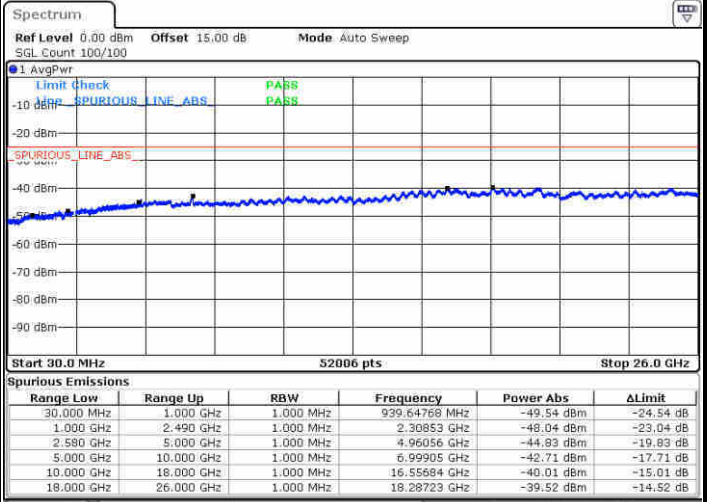
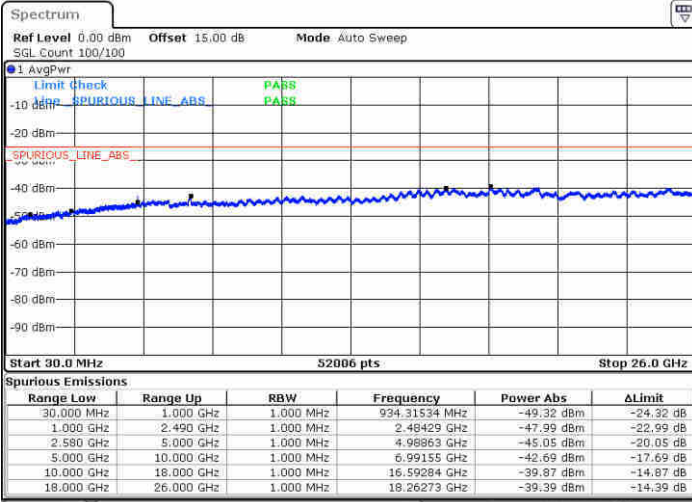




LTE Band 7 / 5MHz

Lowest Channel / 64QAM

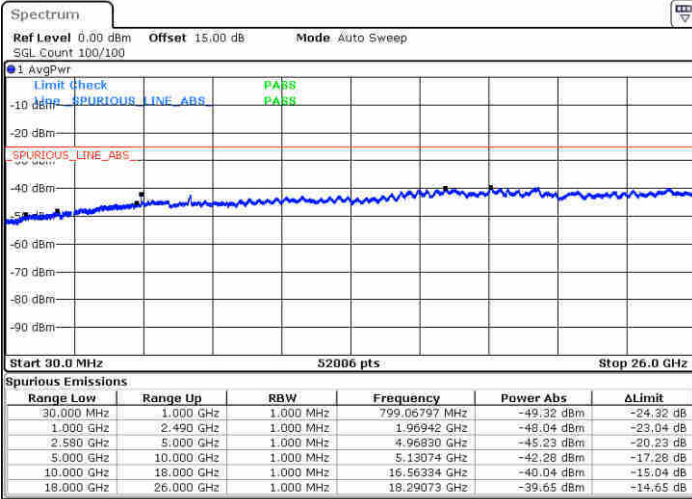
Middle Channel / 64QAM



Date: 01 JUN 2020 08:12:31

Date: 01 JUN 2020 08:11:19

Highest Channel / 64QAM



Date: 01 JUN 2020 08:09:27

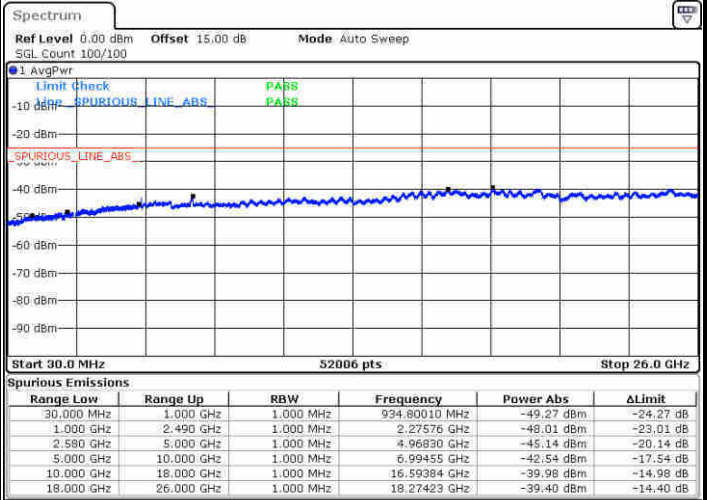
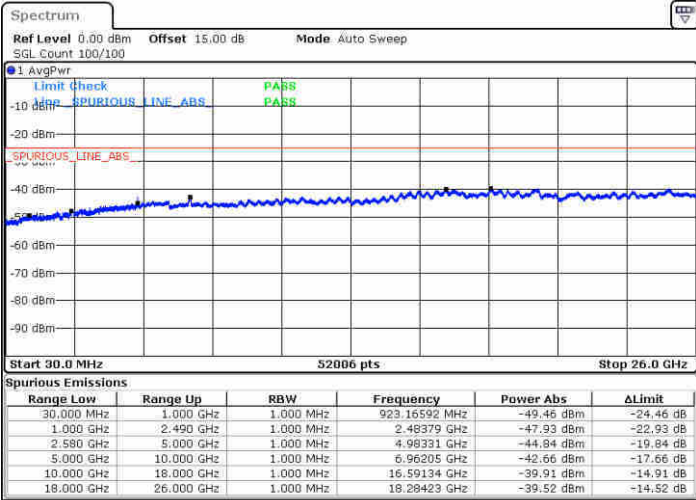




LTE Band 7 / 10MHz

Lowest Channel / 64QAM

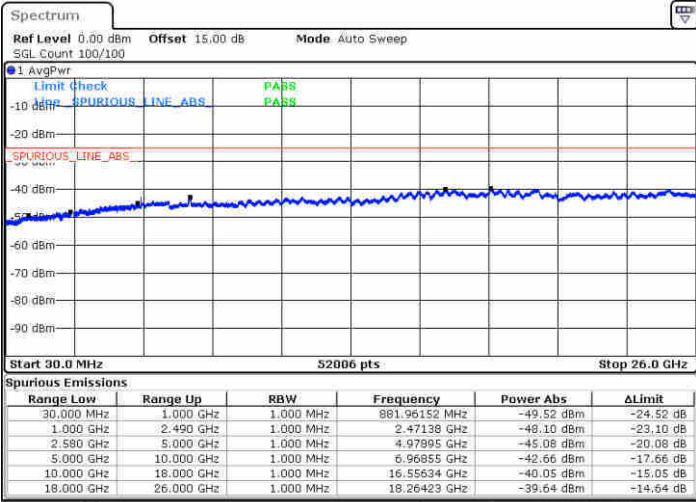
Middle Channel / 64QAM



Date: 01/JUN/2020 08:15:06

Date: 01/JUN/2020 08:17:27

Highest Channel / 64QAM



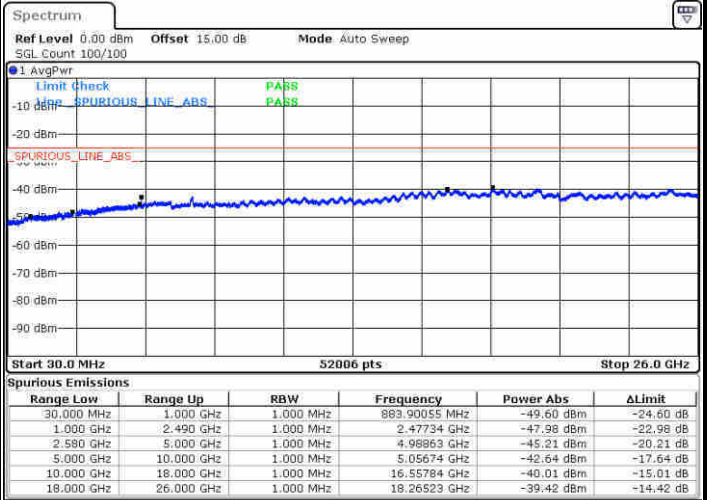
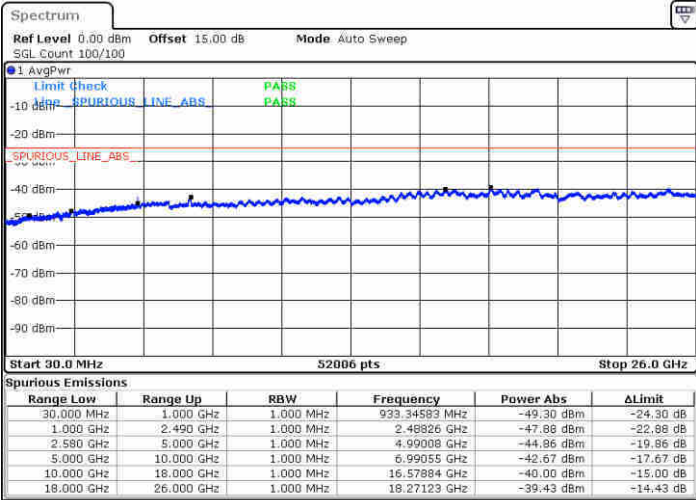
Date: 01/JUN/2020 08:19:33



LTE Band 7 / 15MHz

Lowest Channel / 64QAM

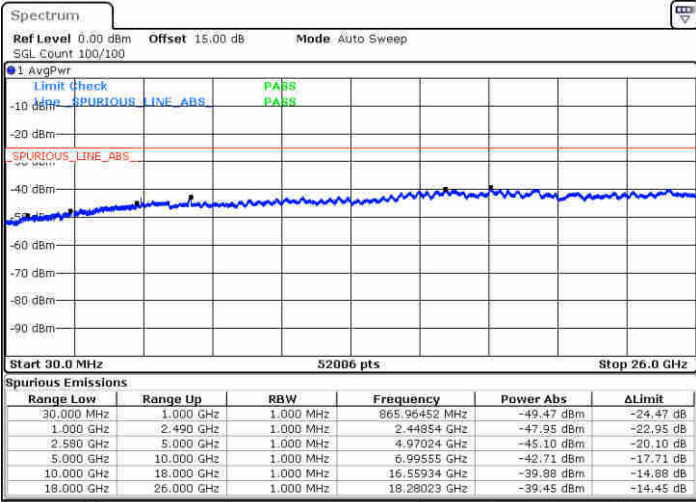
Middle Channel / 64QAM



Date: 01/JUN/2020 08:48:21

Date: 01/JUN/2020 08:49:10

Highest Channel / 64QAM



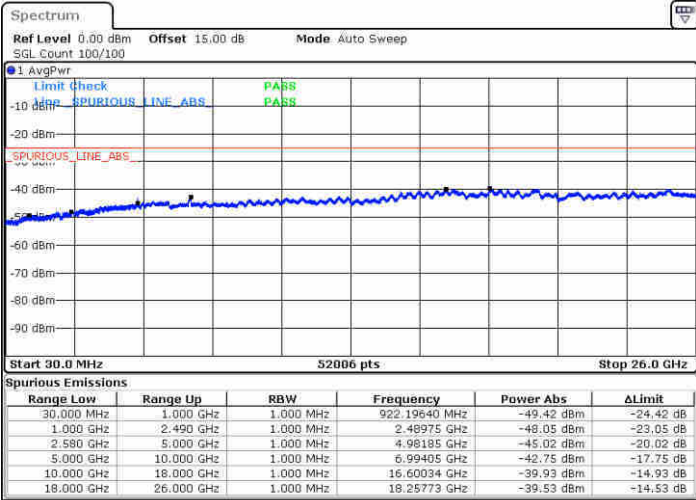
Date: 01/JUN/2020 08:50:00



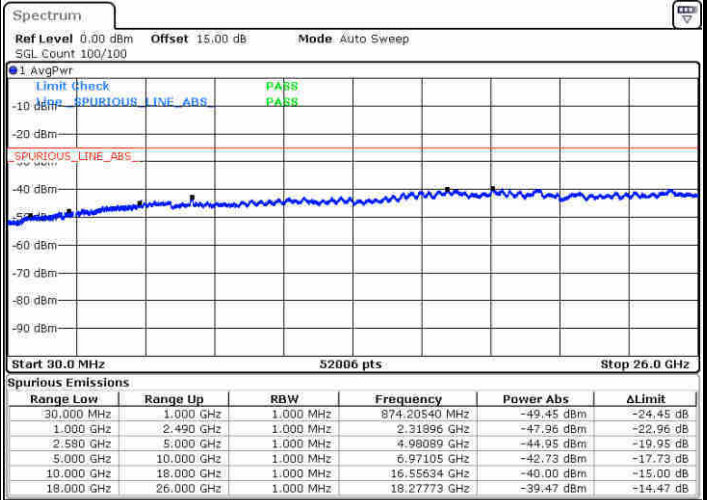
LTE Band 7 / 20MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

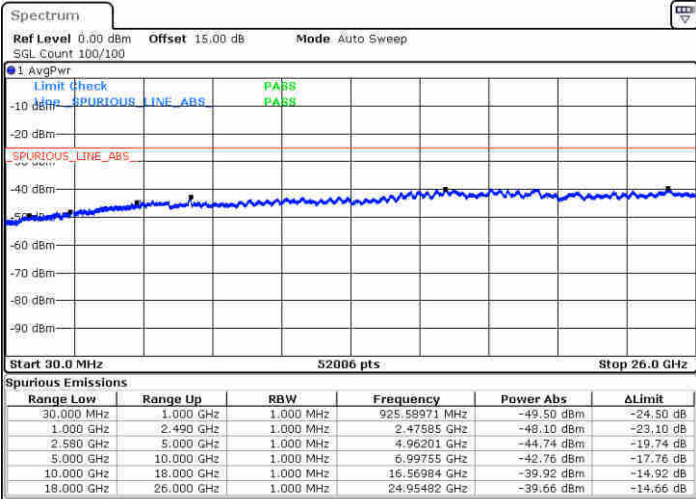


Date: 01 JUN 2020 08:50:49



Date: 01 JUN 2020 08:51:39

Highest Channel / 64QAM



Date: 01 JUN 2020 08:52:28



Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0004	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0015	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0010	
0	Normal Voltage	0.0009	
-10	Normal Voltage	0.0011	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0015	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0015	

Note:

- 5. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
- 6. Note: The frequency fundamental emissions stay within the authorized frequency block.





# LTE Band 12

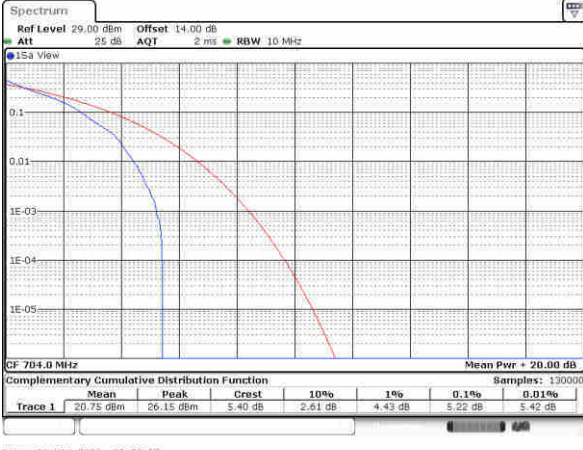
## Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	5.22	5.88	6.38	6.46	PASS
Middle CH	5.51	5.77	6.61	6.49	
Highest CH	5.45	5.77	6.55	6.35	
Mode	LTE Band 12 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.97	6.52	-	-	PASS
Middle CH	6.78	6.49	-	-	
Highest CH	6.03	6.43	-	-	



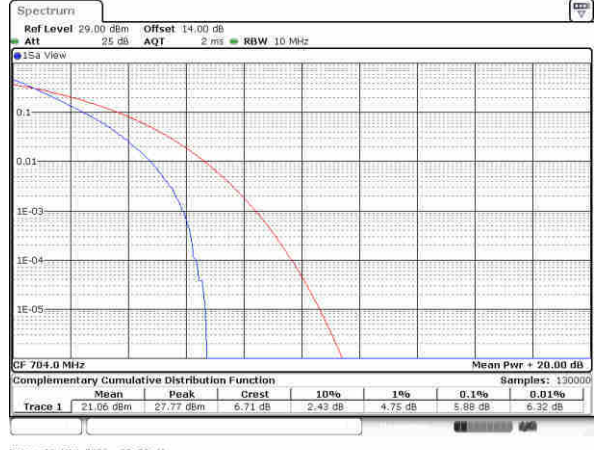
LTE Band 12 / 10MHz / QPSK

Lowest Channel / 1RB



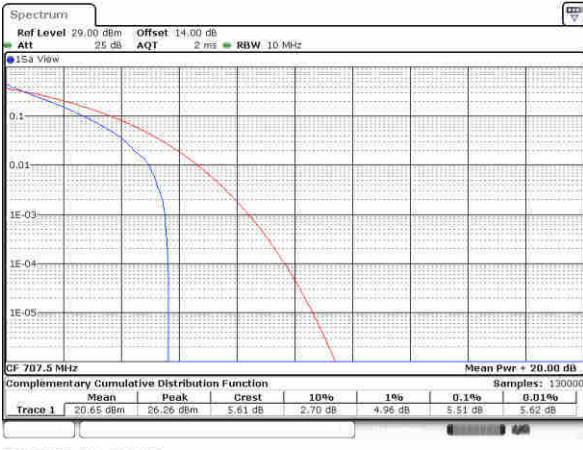
Date: 11.MAY.2020 02:28:57

Lowest Channel / Full RB



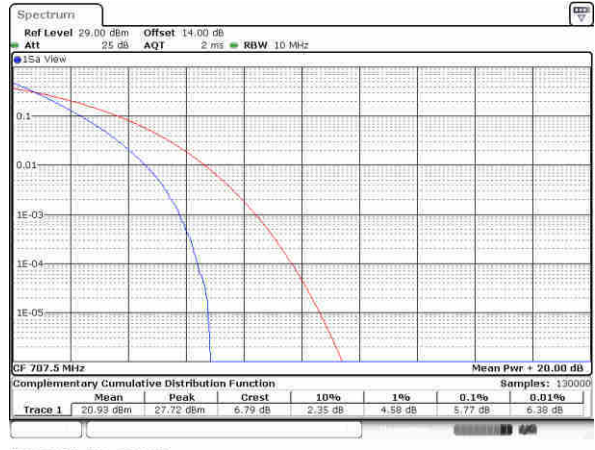
Date: 11.MAY.2020 02:29:45

Middle Channel / 1RB



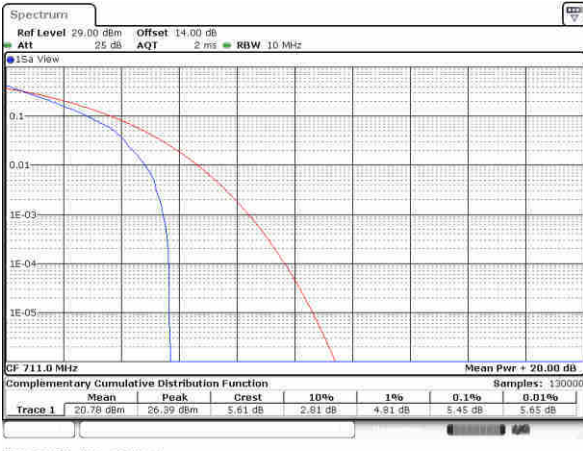
Date: 11.MAY.2020 02:30:10

Middle Channel / Full RB



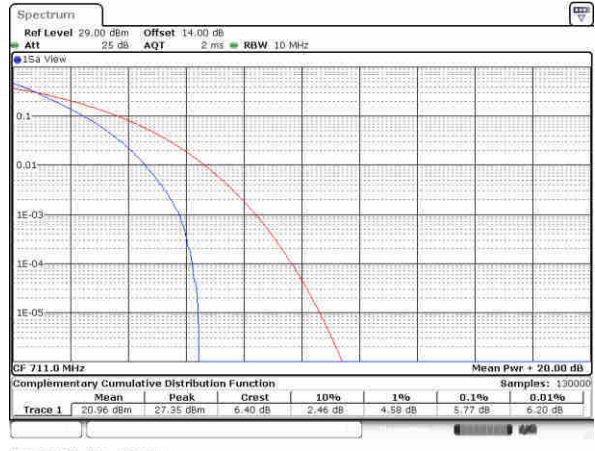
Date: 11.MAY.2020 02:30:30

Highest Channel / 1RB



Date: 11.MAY.2020 02:31:04

Highest Channel / Full RB

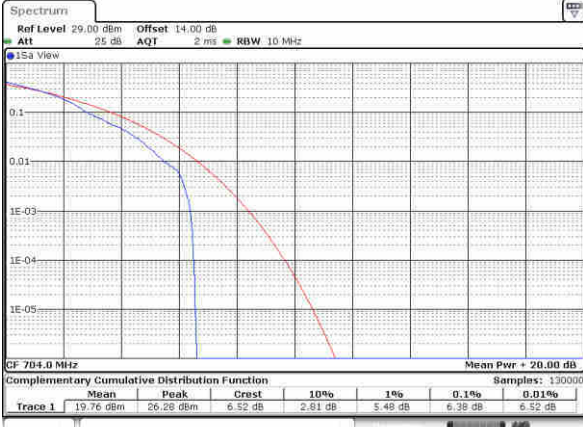


Date: 11.MAY.2020 02:30:41



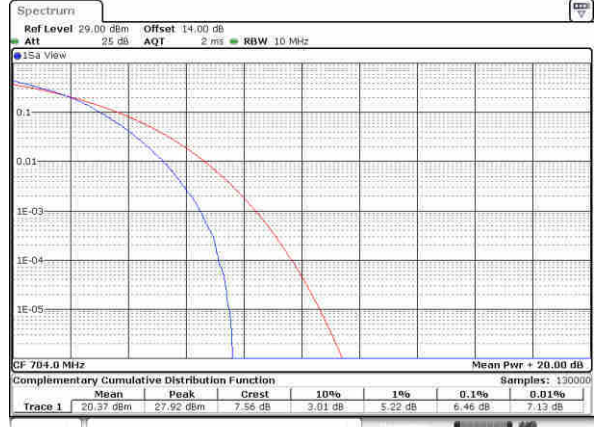
LTE Band 12 / 10MHz / 16QAM

Lowest Channel / 1RB



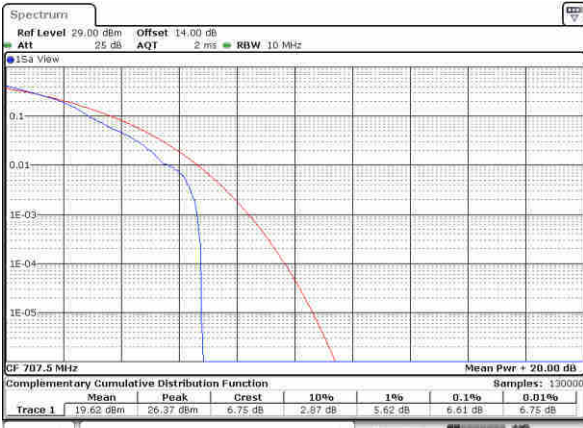
Date: 11.MAY.2020 02:27:47

Lowest Channel / Full RB



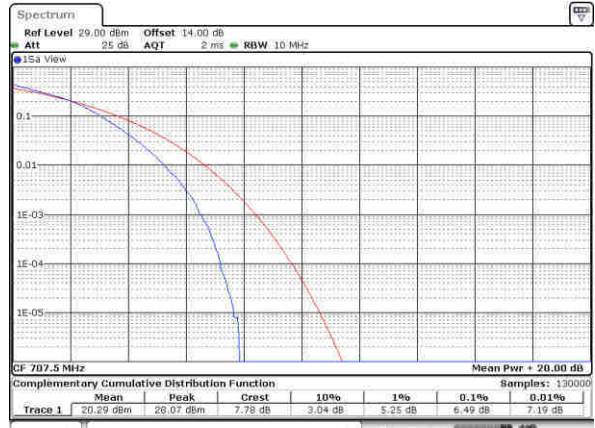
Date: 11.MAY.2020 02:27:09

Middle Channel / 1RB



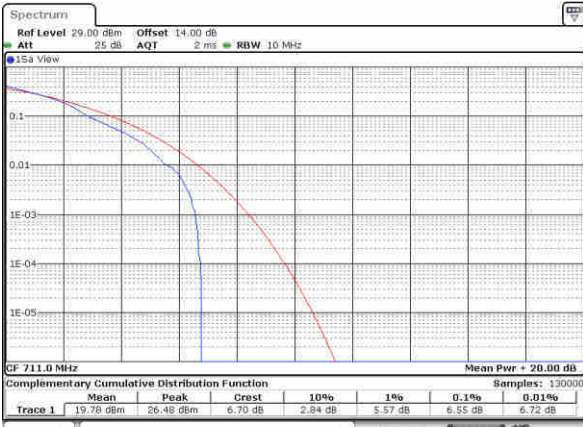
Date: 11.MAY.2020 02:27:06

Middle Channel / Full RB



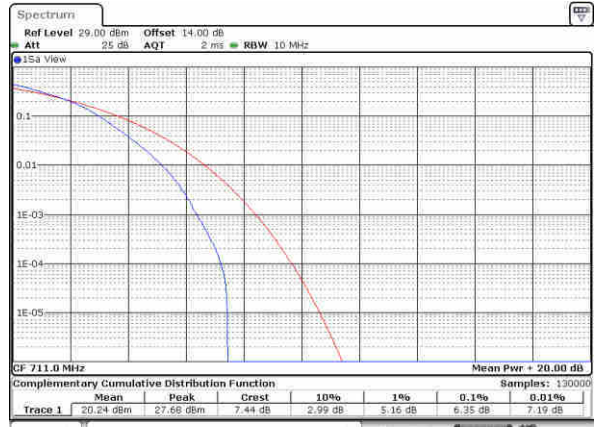
Date: 11.MAY.2020 02:28:06

Highest Channel / 1RB



Date: 11.MAY.2020 02:28:25

Highest Channel / Full RB

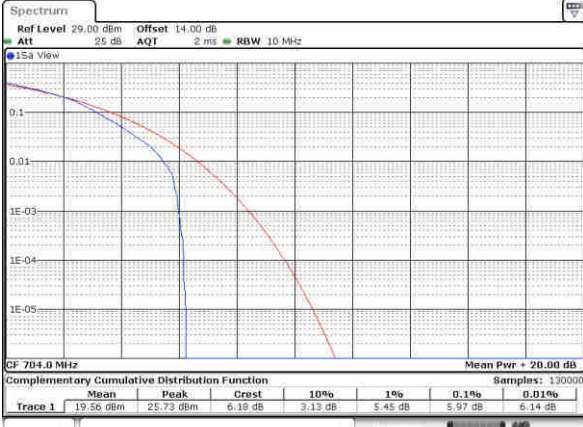


Date: 11.MAY.2020 02:28:15



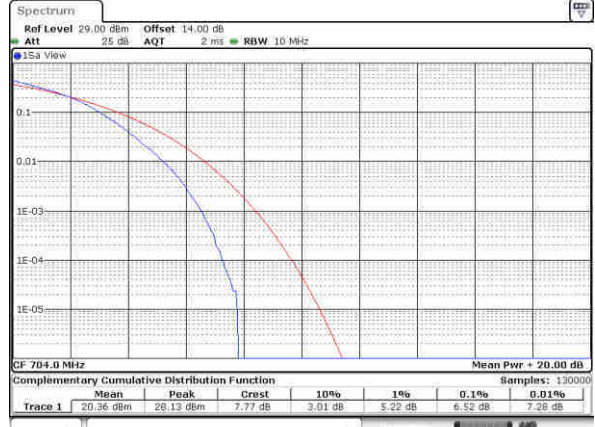
LTE Band 12 / 10MHz / 64QAM

Lowest Channel / 1RB



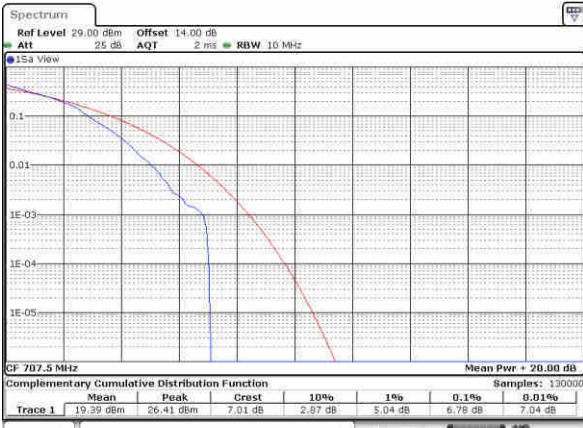
Date: 11.MAY.2020 02:26:19

Lowest Channel / Full RB



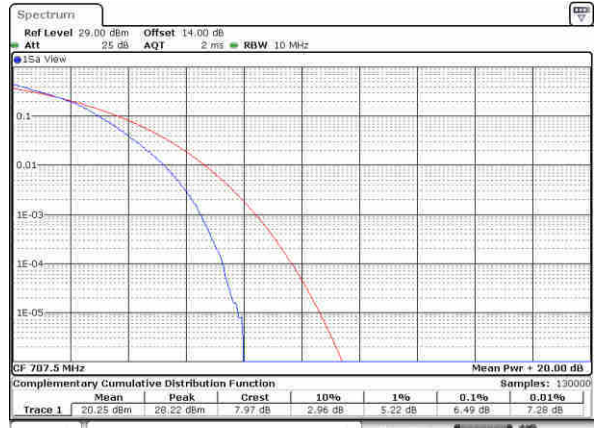
Date: 11.MAY.2020 02:26:09

Middle Channel / 1RB



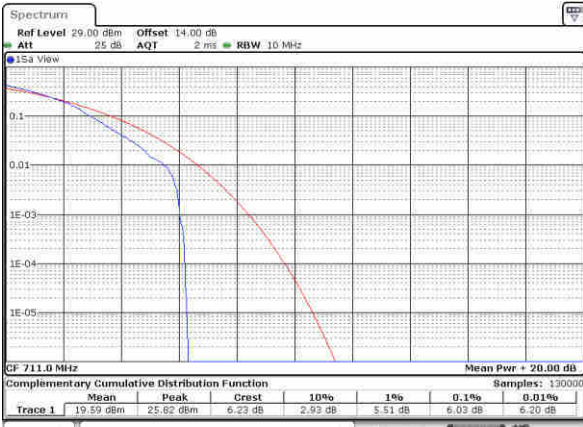
Date: 11.MAY.2020 02:26:28

Middle Channel / Full RB



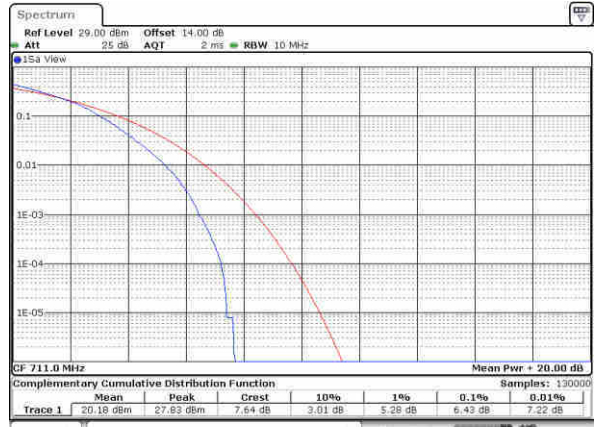
Date: 11.MAY.2020 02:26:19

Highest Channel / 1RB



Date: 11.MAY.2020 02:26:58

Highest Channel / Full RB



Date: 11.MAY.2020 02:26:48





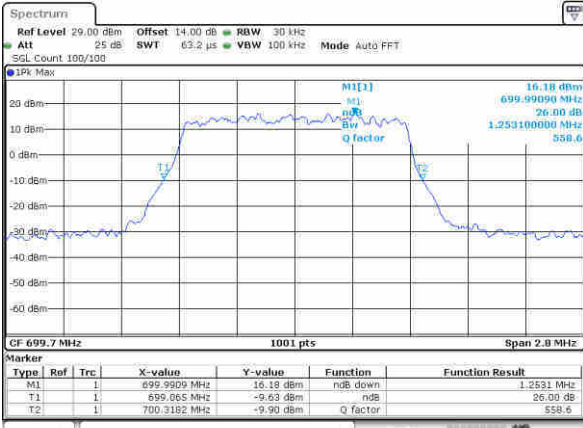
**26dB Bandwidth**

Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.25	1.26	2.98	2.92	4.89	4.87	9.69	9.81	-	-	-	-
Middle CH	1.28	1.31	2.98	2.96	4.88	4.83	9.81	9.81	-	-	-	-
Highest CH	1.24	1.27	2.93	2.96	4.91	4.87	9.69	9.89	-	-	-	-
Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.31	-	2.95	-	4.91	-	9.67	-	-	-	-	-
Middle CH	1.27	-	2.99	-	4.82	-	9.69	-	-	-	-	-
Highest CH	1.30	-	2.99	-	4.86	-	9.83	-	-	-	-	-



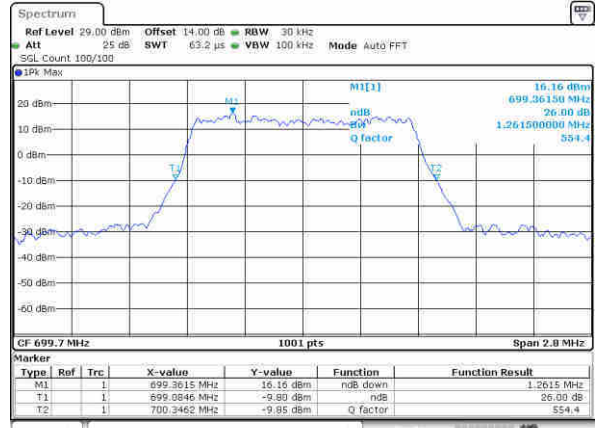
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



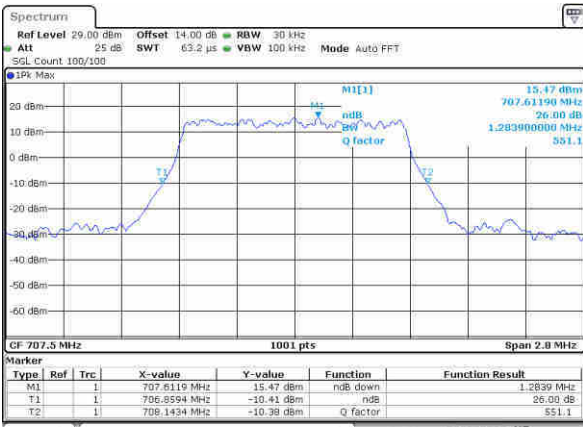
Date: 11.MAY.2020 02:12:57

Lowest Channel / 1.4MHz / 16QAM



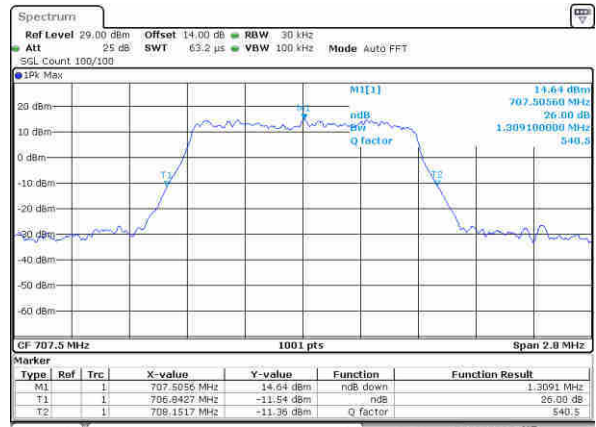
Date: 11.MAY.2020 02:12:46

Middle Channel / 1.4MHz / QPSK



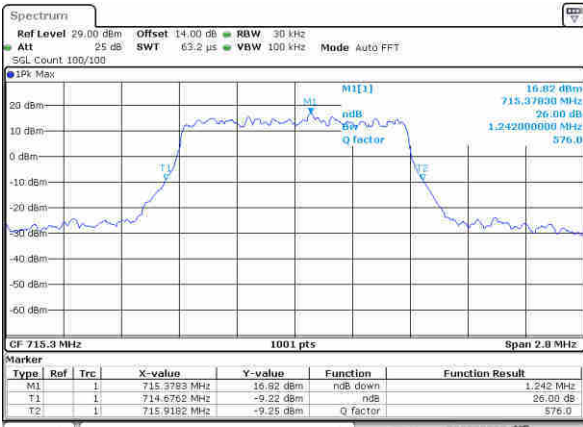
Date: 11.MAY.2020 02:16:26

Middle Channel / 1.4MHz / 16QAM



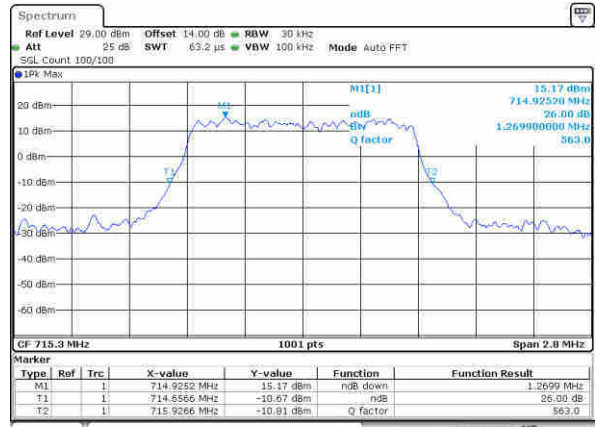
Date: 11.MAY.2020 02:16:37

Highest Channel / 1.4MHz / QPSK



Date: 11.MAY.2020 02:18:10

Highest Channel / 1.4MHz / 16QAM

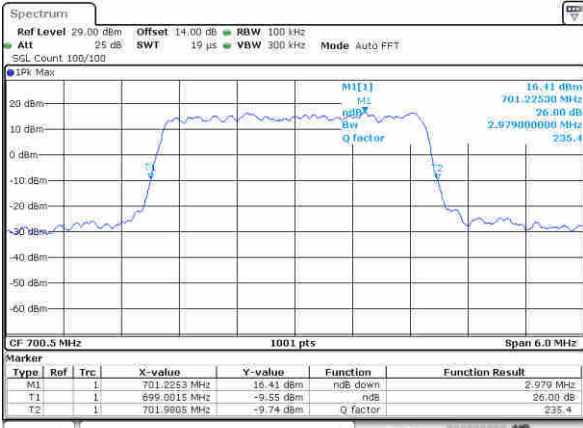


Date: 11.MAY.2020 02:17:59



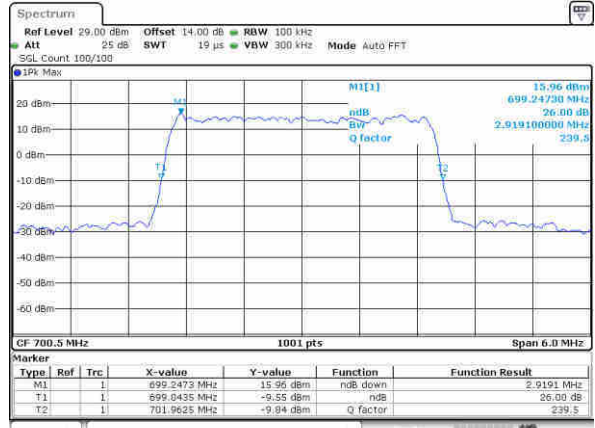
LTE Band 12

Lowest Channel / 3MHz / QPSK



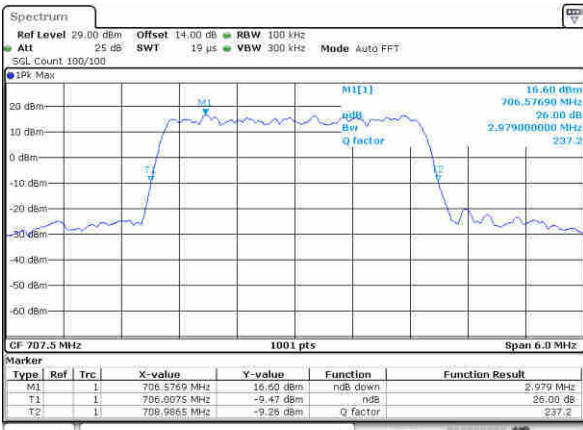
Date: 11.MAY.2020 01:59:35

Lowest Channel / 3MHz / 16QAM



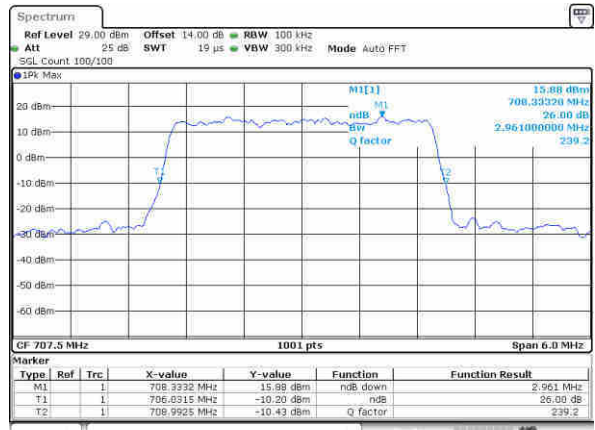
Date: 11.MAY.2020 01:59:24

Middle Channel / 3MHz / QPSK



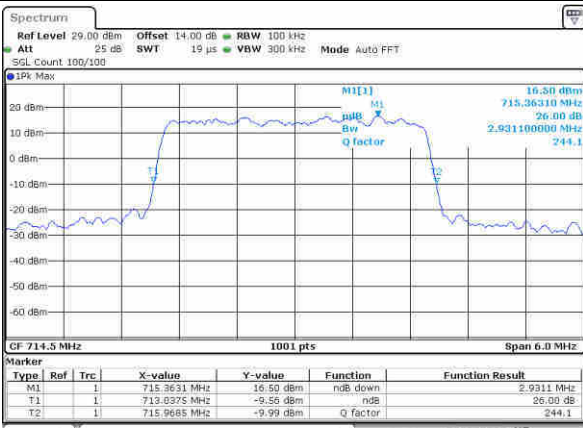
Date: 11.MAY.2020 02:00:08

Middle Channel / 3MHz / 16QAM



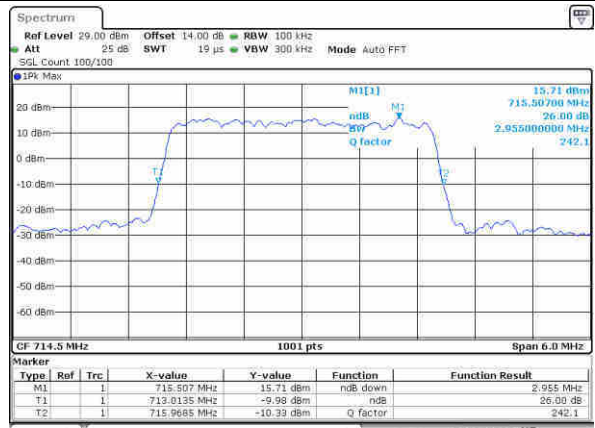
Date: 11.MAY.2020 02:00:19

Highest Channel / 3MHz / QPSK



Date: 11.MAY.2020 02:01:03

Highest Channel / 3MHz / 16QAM

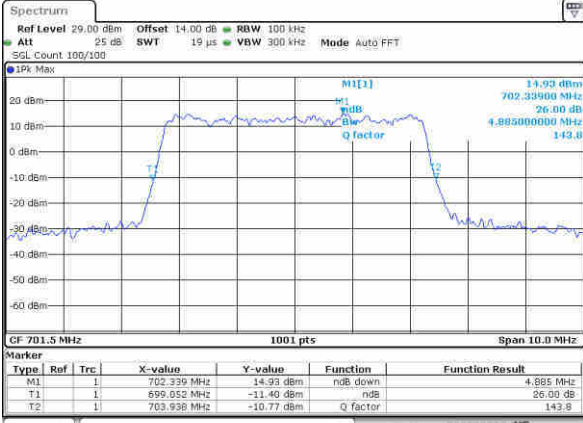


Date: 11.MAY.2020 02:00:52



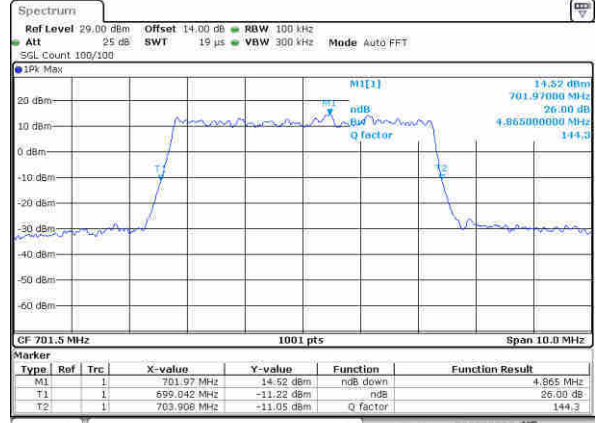
LTE Band 12

Lowest Channel / 5MHz / QPSK



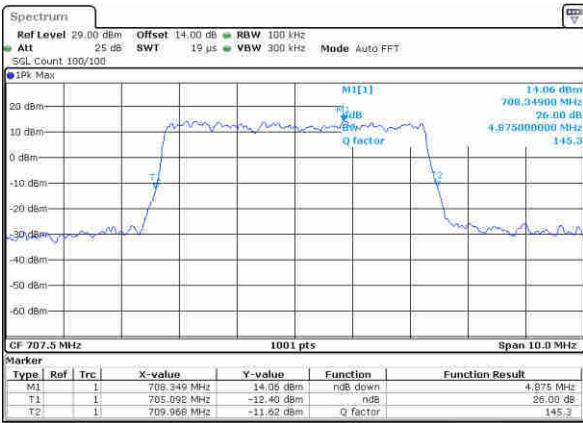
Date: 11, MAY, 2020 02:104:00

Lowest Channel / 5MHz / 16QAM



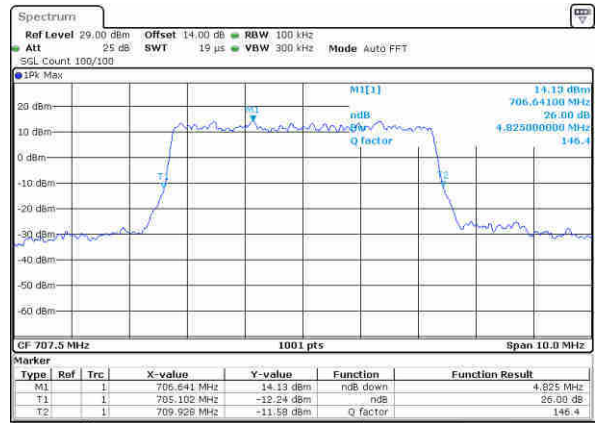
Date: 11, MAY, 2020 02:103:49

Middle Channel / 5MHz / QPSK



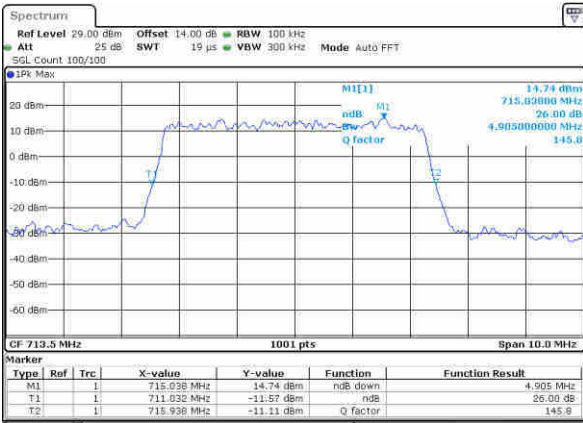
Date: 11, MAY, 2020 02:104:32

Middle Channel / 5MHz / 16QAM



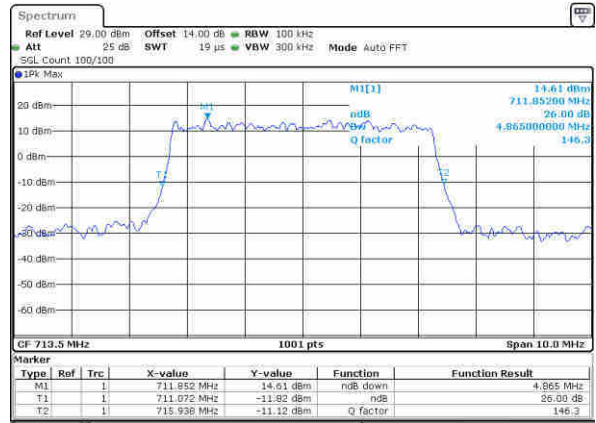
Date: 11, MAY, 2020 02:104:44

Highest Channel / 5MHz / QPSK



Date: 11, MAY, 2020 02:105:29

Highest Channel / 5MHz / 16QAM

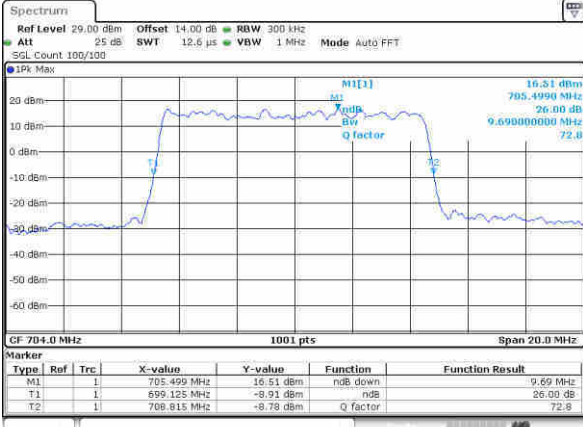


Date: 11, MAY, 2020 02:105:19



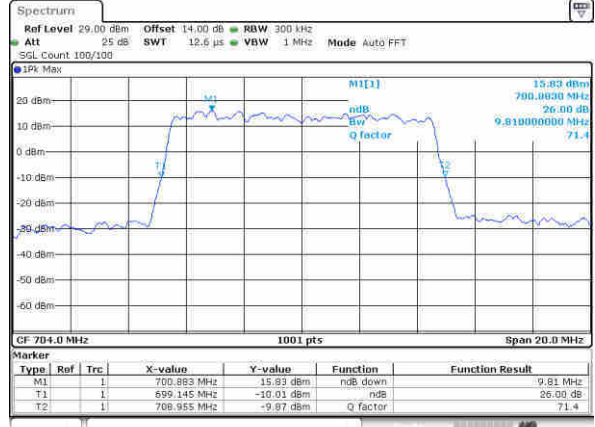
LTE Band 12

Lowest Channel / 10MHz / QPSK



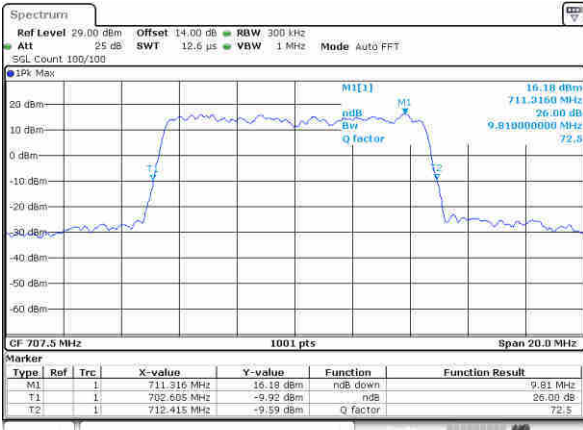
Date: 11.MAY.2020 02:10:13

Lowest Channel / 10MHz / 16QAM



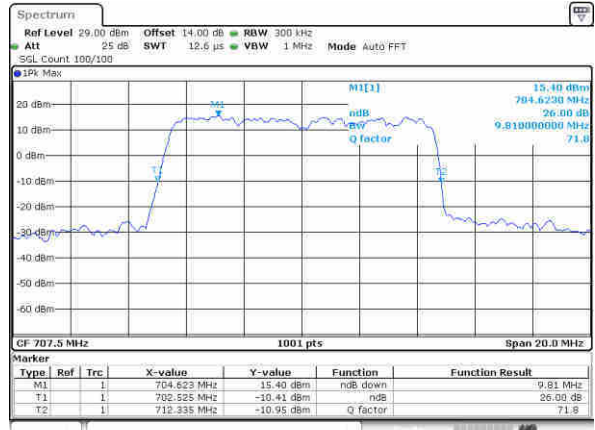
Date: 11.MAY.2020 02:10:02

Middle Channel / 10MHz / QPSK



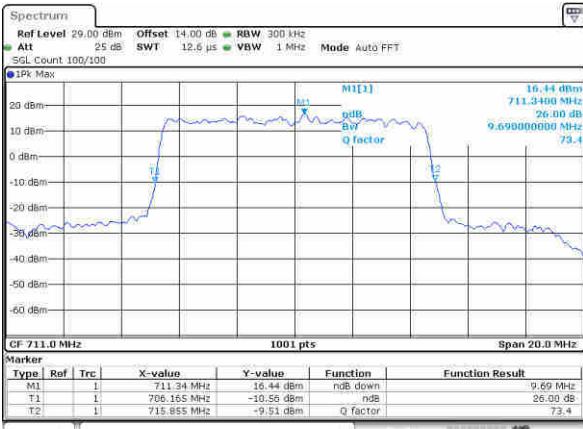
Date: 11.MAY.2020 02:10:46

Middle Channel / 10MHz / 16QAM



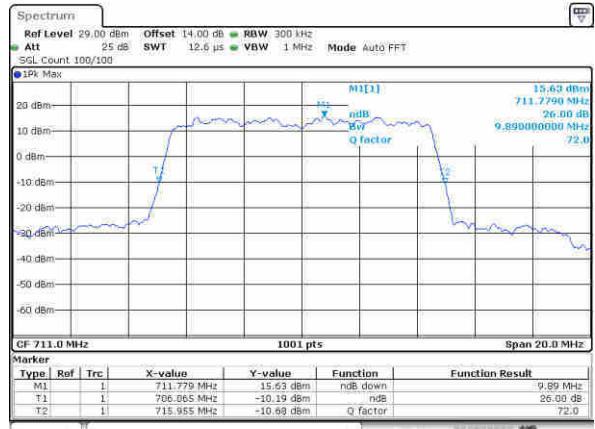
Date: 11.MAY.2020 02:10:57

Highest Channel / 10MHz / QPSK



Date: 11.MAY.2020 02:10:41

Highest Channel / 10MHz / 16QAM



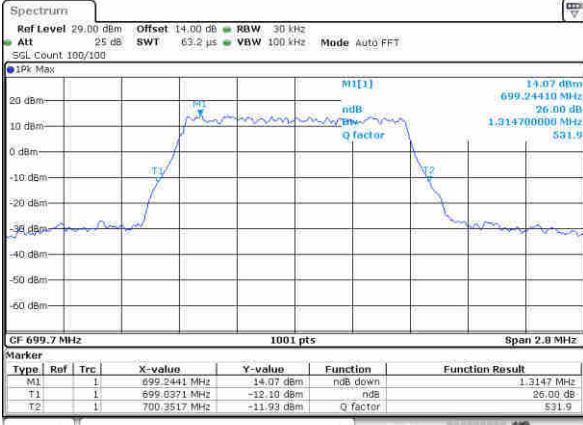
Date: 11.MAY.2020 02:10:30





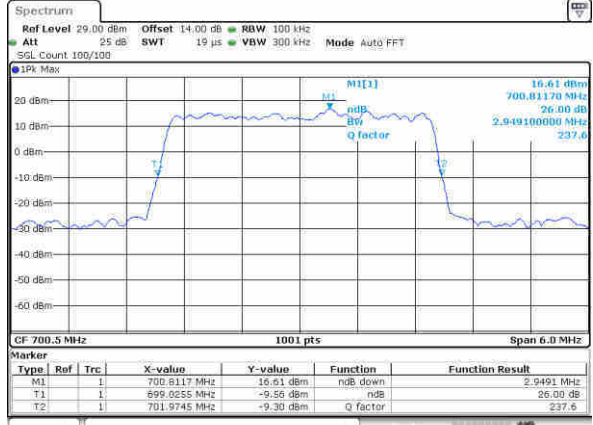
LTE Band 12

Lowest Channel / 1.4MHz / 64QAM



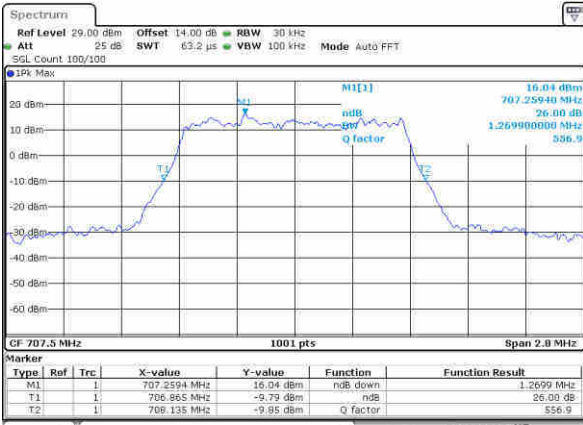
Date: 11, MAY, 2020 02:21:29

Lowest Channel / 3MHz / 64QAM



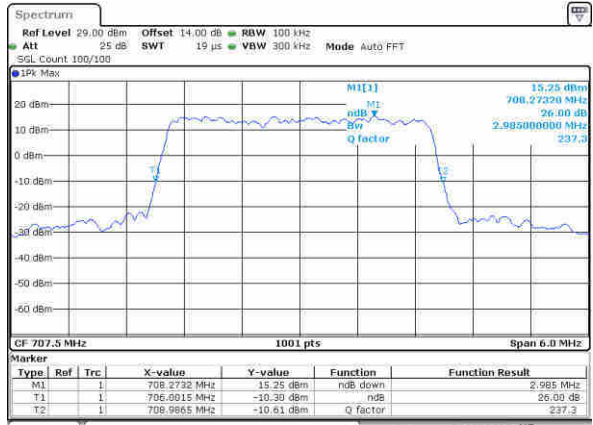
Date: 11, MAY, 2020 02:10:16

Middle Channel / 1.4MHz / 64QAM



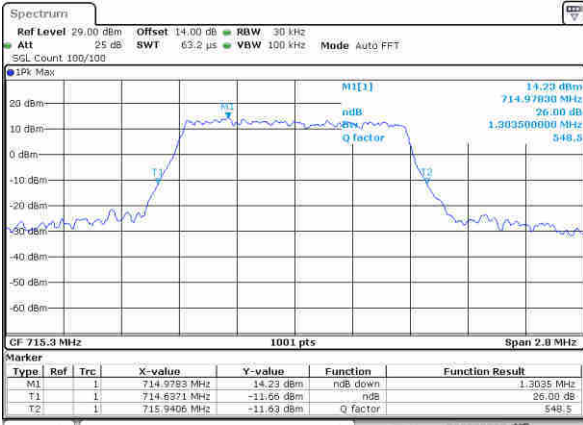
Date: 11, MAY, 2020 02:23:19

Middle Channel / 3MHz / 64QAM



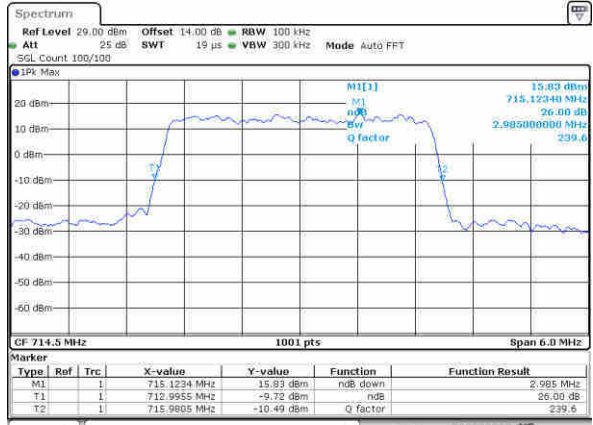
Date: 11, MAY, 2020 02:10:48

Highest Channel / 1.4MHz / 64QAM



Date: 11, MAY, 2020 02:24:06

Highest Channel / 3MHz / 64QAM

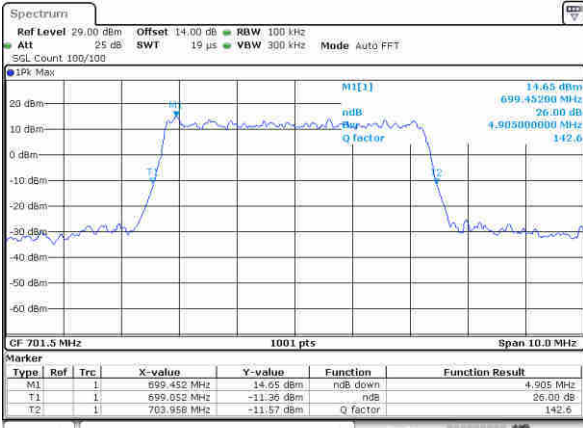


Date: 11, MAY, 2020 02:10:10



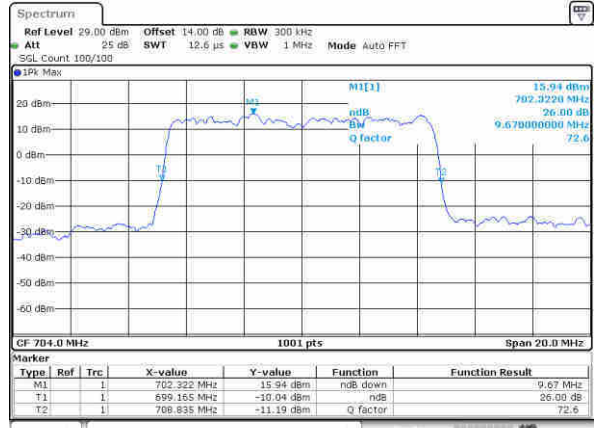
LTE Band 12

Lowest Channel / 5MHz / 64QAM



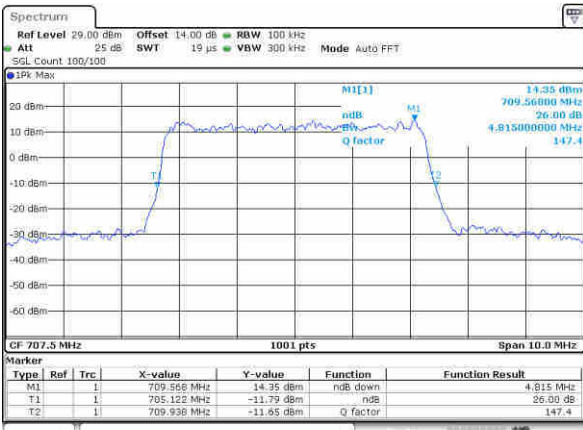
Date: 11.MAY.2020 02:02:32

Lowest Channel / 10MHz / 64QAM



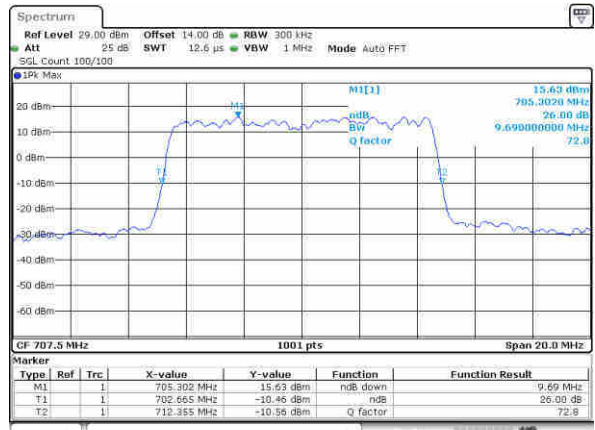
Date: 11.MAY.2020 02:10:03

Middle Channel / 5MHz / 64QAM



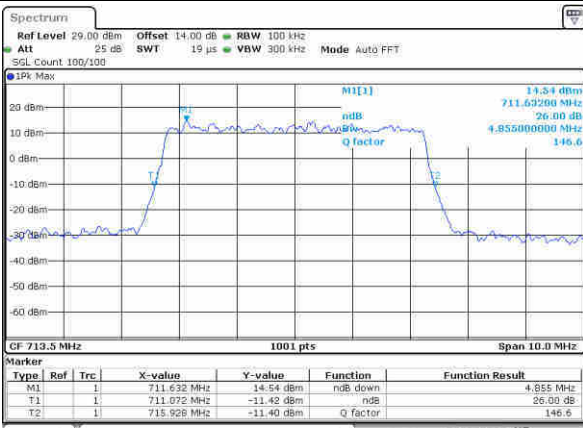
Date: 11.MAY.2020 02:10:54

Middle Channel / 10MHz / 64QAM



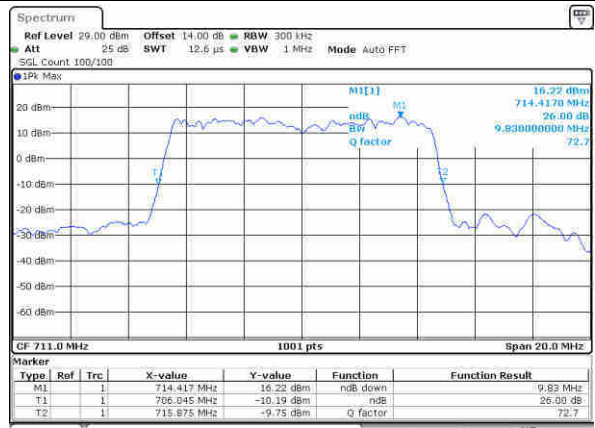
Date: 11.MAY.2020 02:10:57

Highest Channel / 5MHz / 64QAM



Date: 11.MAY.2020 02:10:44

Highest Channel / 10MHz / 64QAM



Date: 11.MAY.2020 02:11:04



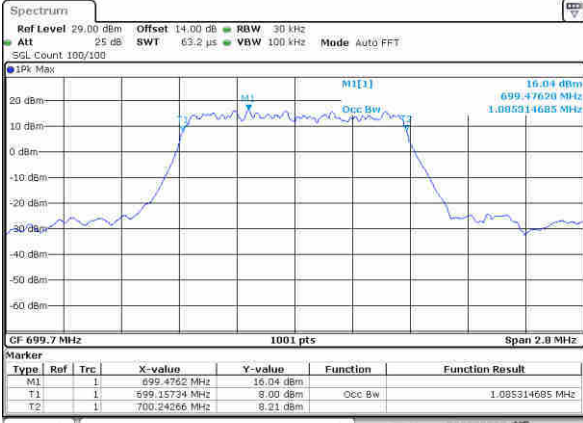
Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.10	2.72	2.72	4.48	4.50	9.01	8.99	-	-	-	-
Middle CH	1.09	1.10	2.70	2.70	4.48	4.50	9.05	8.97	-	-	-	-
Highest CH	1.09	1.09	2.72	2.72	4.47	4.47	8.99	9.01	-	-	-	-
Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09	-	2.72	-	4.48	-	9.09	-	-	-	-	-
Middle CH	1.08	-	2.71	-	4.49	-	9.03	-	-	-	-	-
Highest CH	1.09	-	2.70	-	4.47	-	9.03	-	-	-	-	-



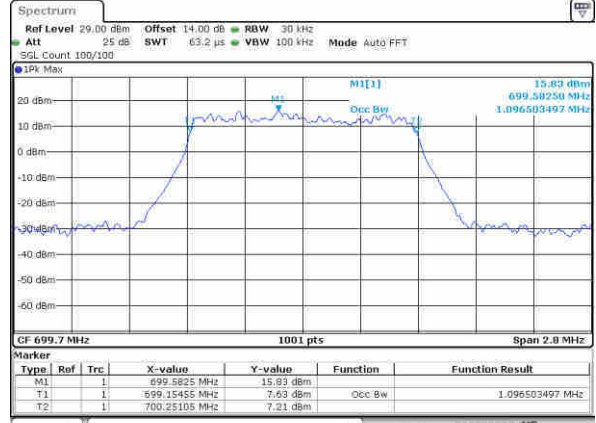
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



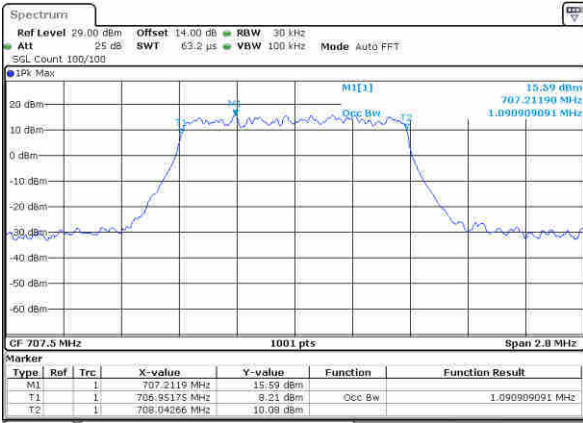
Date: 11, MAY, 2020 02:12:24

Lowest Channel / 1.4MHz / 16QAM



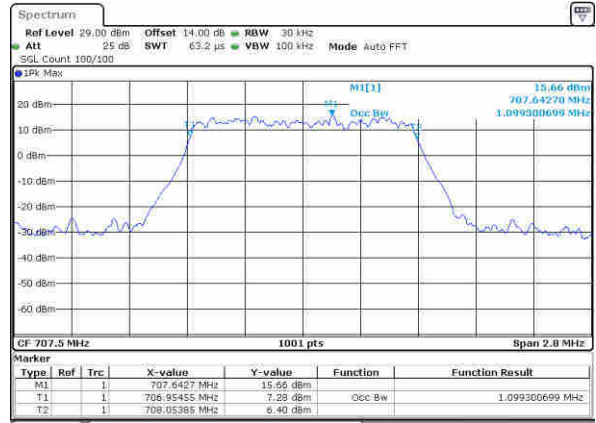
Date: 11, MAY, 2020 02:12:35

Middle Channel / 1.4MHz / QPSK



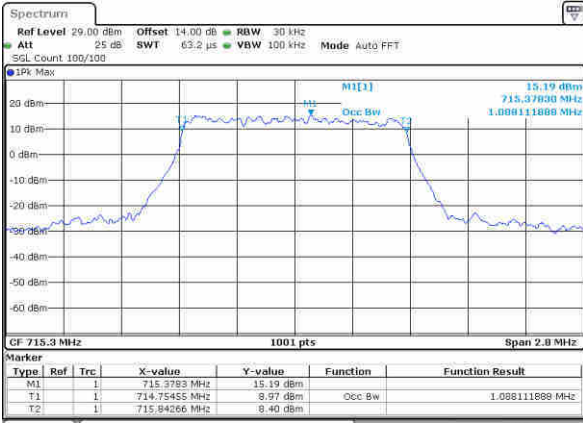
Date: 11, MAY, 2020 02:16:15

Middle Channel / 1.4MHz / 16QAM



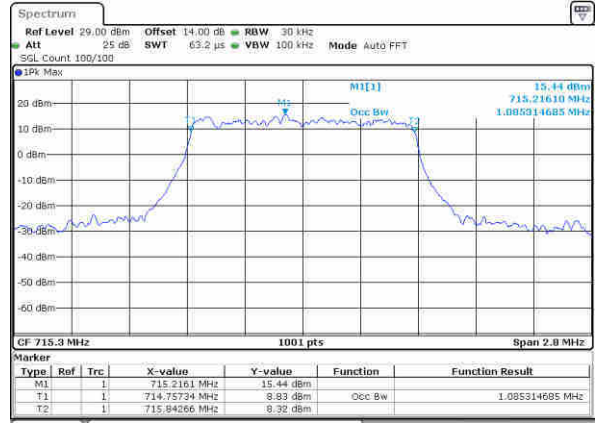
Date: 11, MAY, 2020 02:16:04

Highest Channel / 1.4MHz / QPSK



Date: 11, MAY, 2020 02:17:37

Highest Channel / 1.4MHz / 16QAM

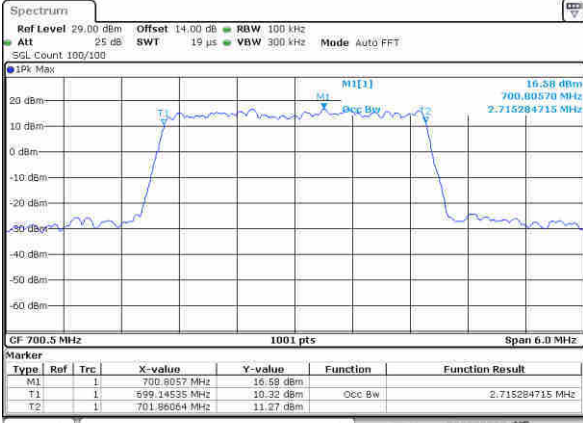


Date: 11, MAY, 2020 02:17:48



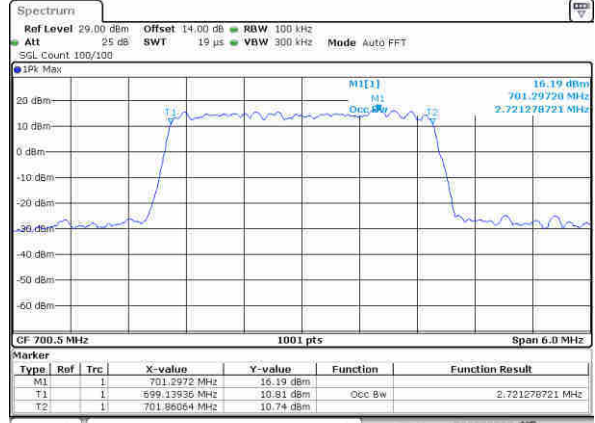
LTE Band 12

Lowest Channel / 3MHz / QPSK



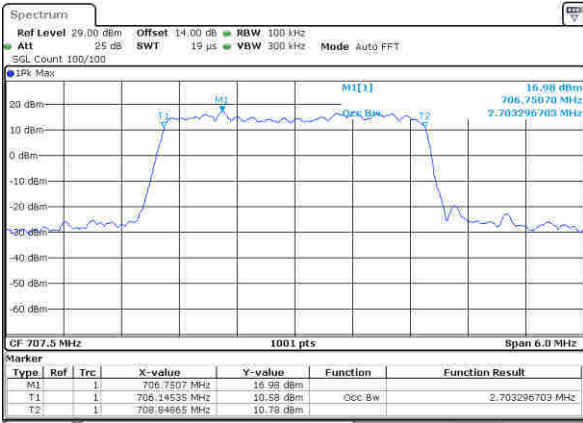
Date: 11, MAY, 2020 @11:59:02

Lowest Channel / 3MHz / 16QAM



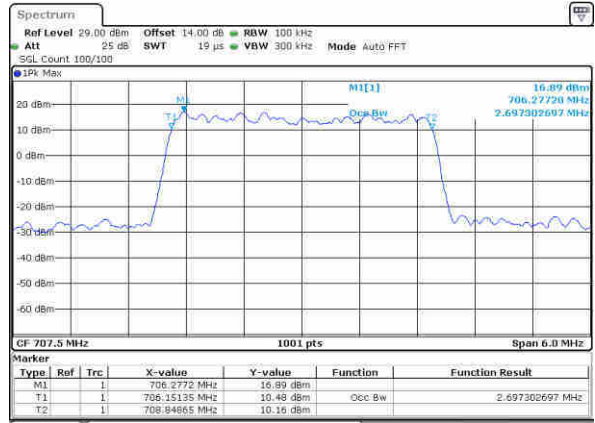
Date: 11, MAY, 2020 @11:59:13

Middle Channel / 3MHz / QPSK



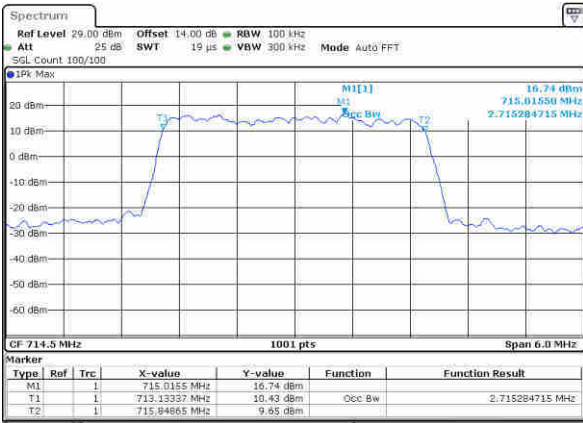
Date: 11, MAY, 2020 @11:59:57

Middle Channel / 3MHz / 16QAM



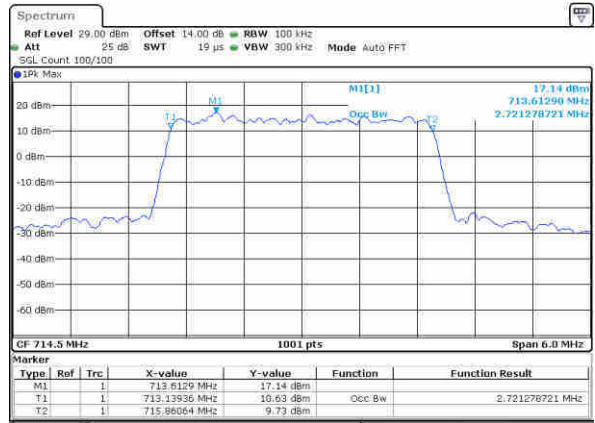
Date: 11, MAY, 2020 @11:59:46

Highest Channel / 3MHz / QPSK



Date: 11, MAY, 2020 @21:00:30

Highest Channel / 3MHz / 16QAM



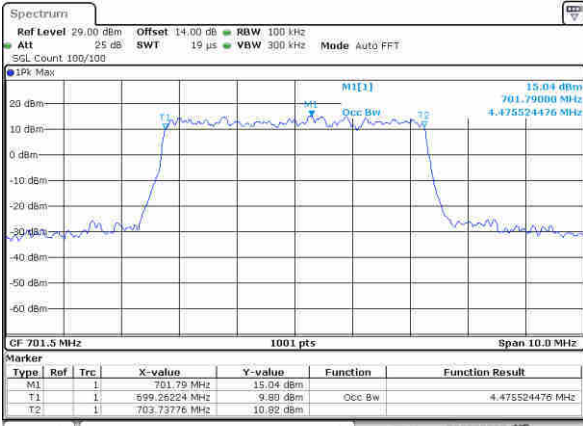
Date: 11, MAY, 2020 @21:00:41





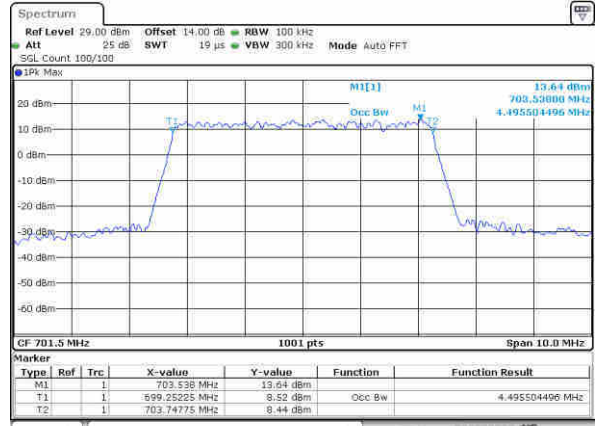
LTE Band 12

Lowest Channel / 5MHz / QPSK



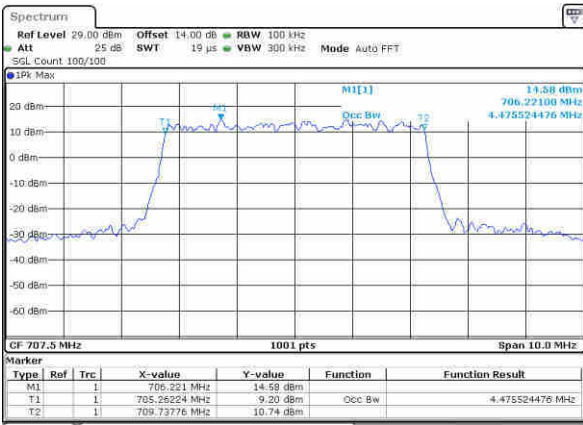
Date: 11, MAY, 2020 02:10:27

Lowest Channel / 5MHz / 16QAM



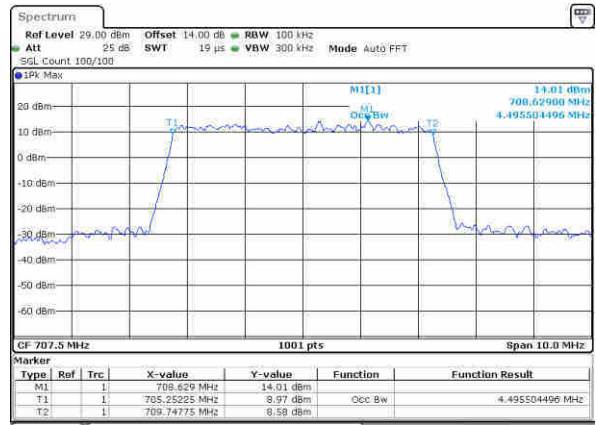
Date: 11, MAY, 2020 02:10:39

Middle Channel / 5MHz / QPSK



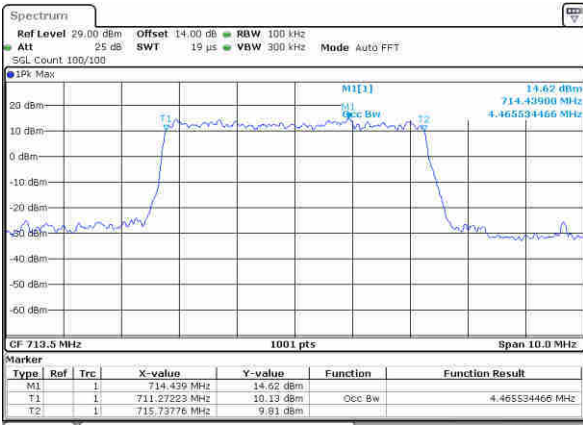
Date: 11, MAY, 2020 02:10:42

Middle Channel / 5MHz / 16QAM



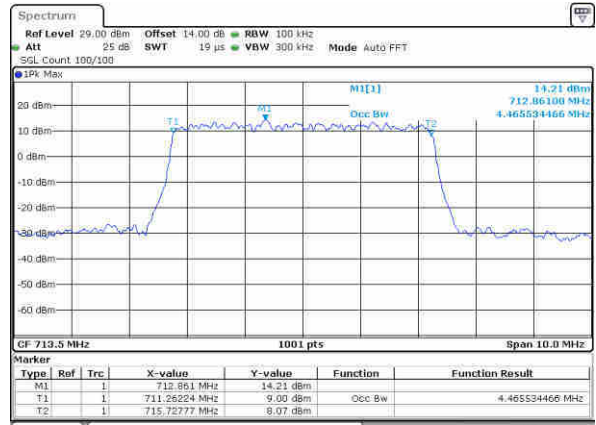
Date: 11, MAY, 2020 02:10:44

Highest Channel / 5MHz / QPSK



Date: 11, MAY, 2020 02:10:45

Highest Channel / 5MHz / 16QAM

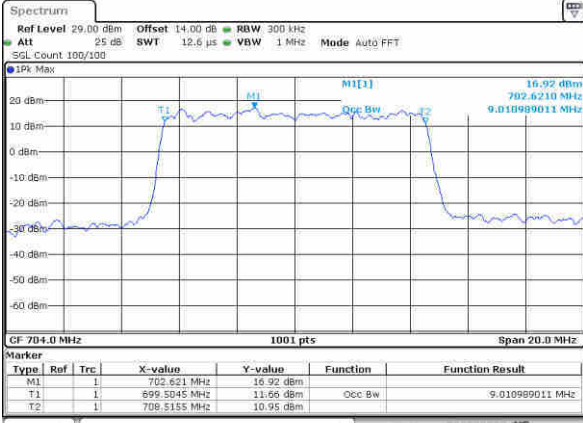


Date: 11, MAY, 2020 02:10:47



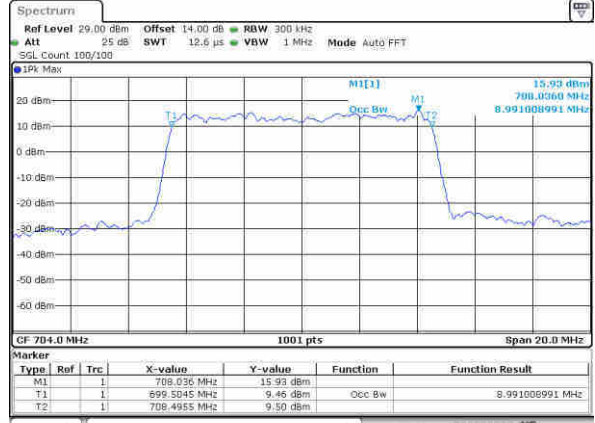
LTE Band 12

Lowest Channel / 10MHz / QPSK



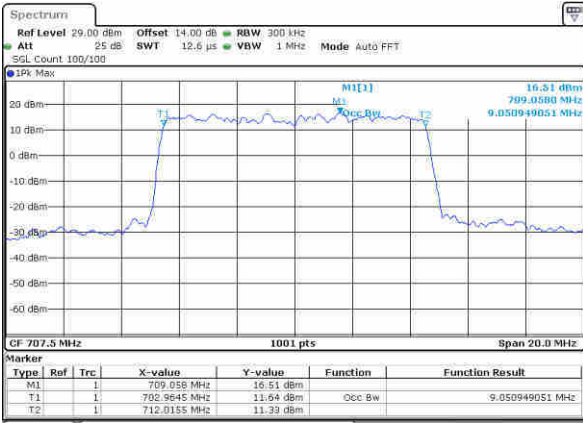
Date: 11, MAY, 2020 02:10:40

Lowest Channel / 10MHz / 16QAM



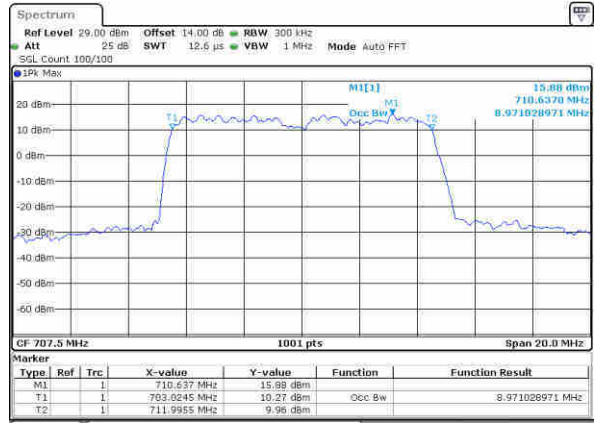
Date: 11, MAY, 2020 02:10:51

Middle Channel / 10MHz / QPSK



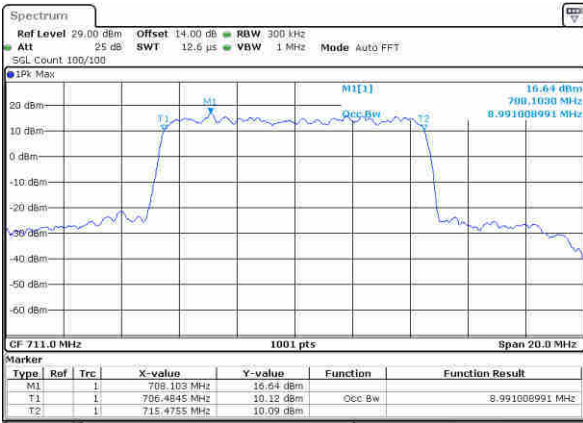
Date: 11, MAY, 2020 02:10:33

Middle Channel / 10MHz / 16QAM



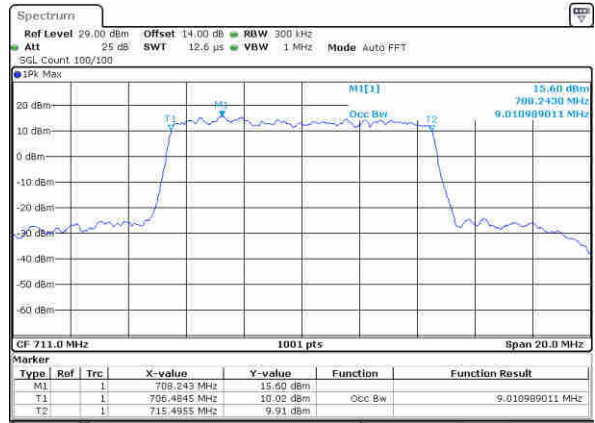
Date: 11, MAY, 2020 02:10:24

Highest Channel / 10MHz / QPSK



Date: 11, MAY, 2020 02:10:40

Highest Channel / 10MHz / 16QAM

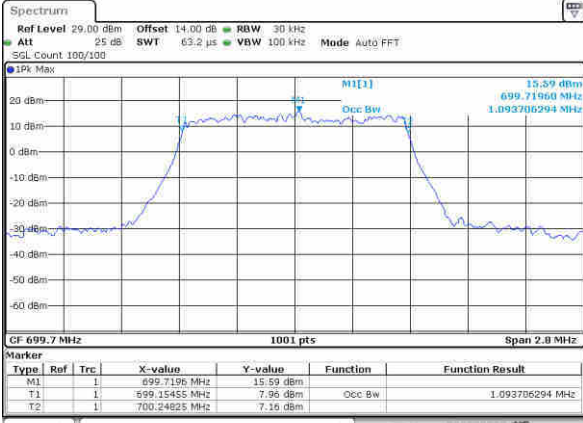


Date: 11, MAY, 2020 02:10:19



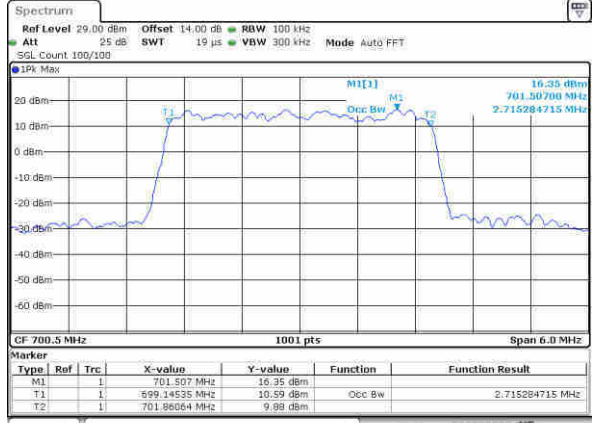
LTE Band 12

Lowest Channel / 1.4MHz / 64QAM



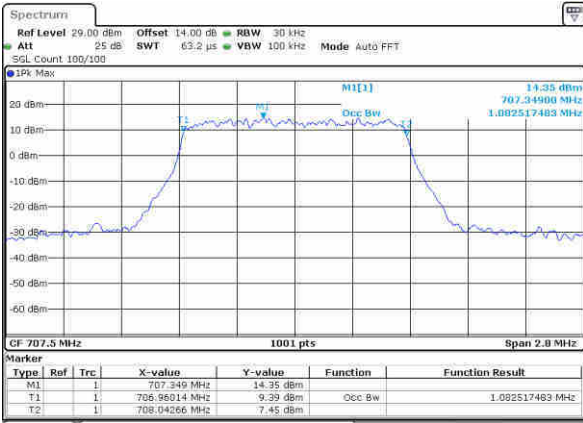
Date: 11, MAY, 2020 02:21:19

Lowest Channel / 3MHz / 64QAM



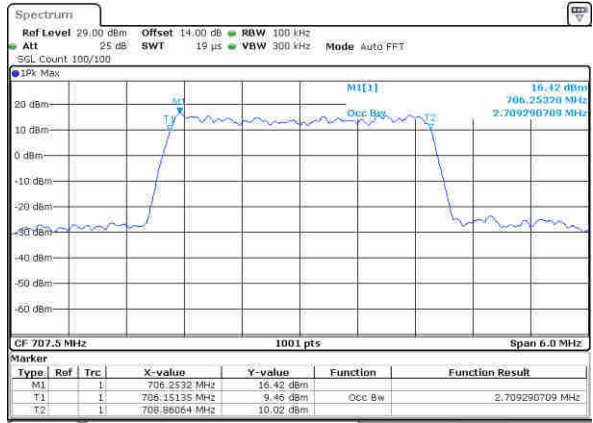
Date: 11, MAY, 2020 02:10:15

Middle Channel / 1.4MHz / 64QAM



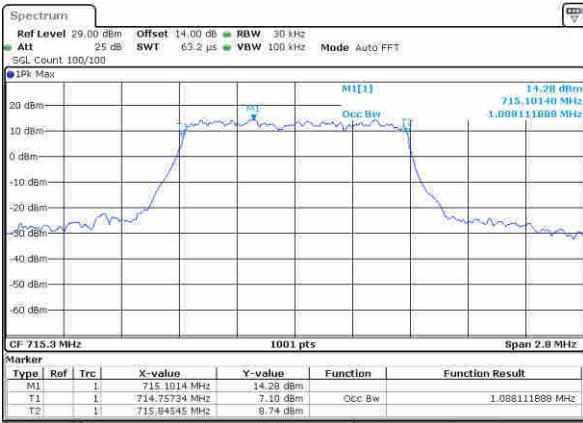
Date: 11, MAY, 2020 02:23:08

Middle Channel / 3MHz / 64QAM



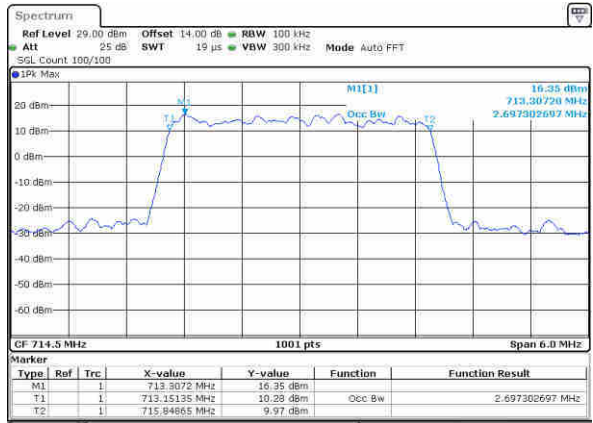
Date: 11, MAY, 2020 02:10:17

Highest Channel / 1.4MHz / 64QAM



Date: 11, MAY, 2020 02:23:55

Highest Channel / 3MHz / 64QAM

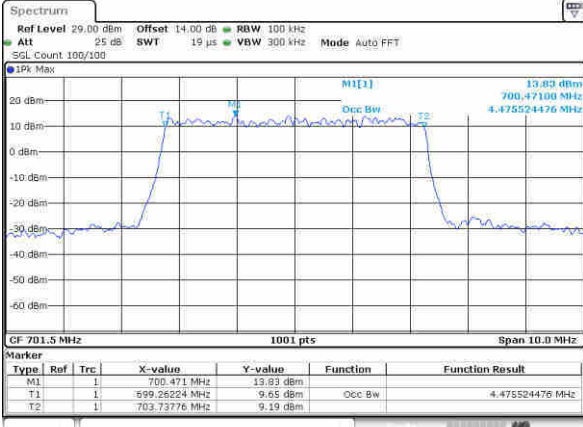


Date: 11, MAY, 2020 02:10:59



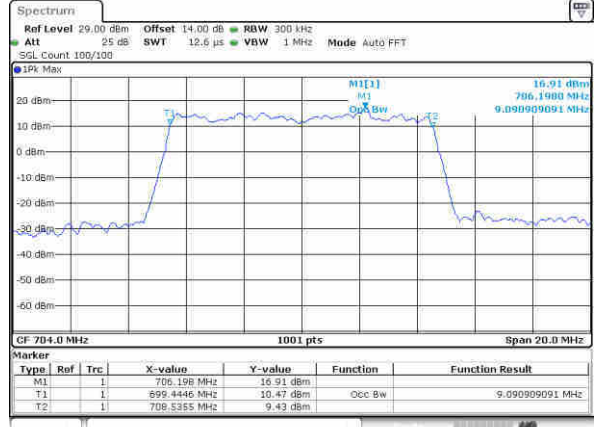
LTE Band 12

Lowest Channel / 5MHz / 64QAM



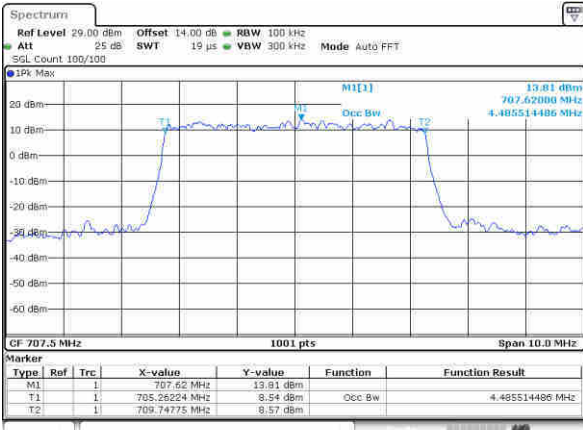
Date: 11.MAY.2020 02:10:21

Lowest Channel / 10MHz / 64QAM



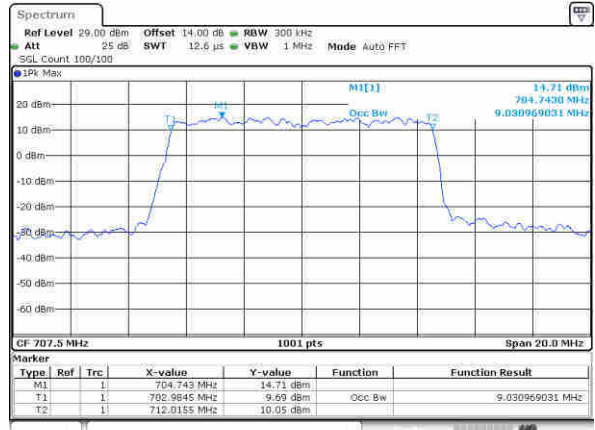
Date: 11.MAY.2020 02:10:52

Middle Channel / 5MHz / 64QAM



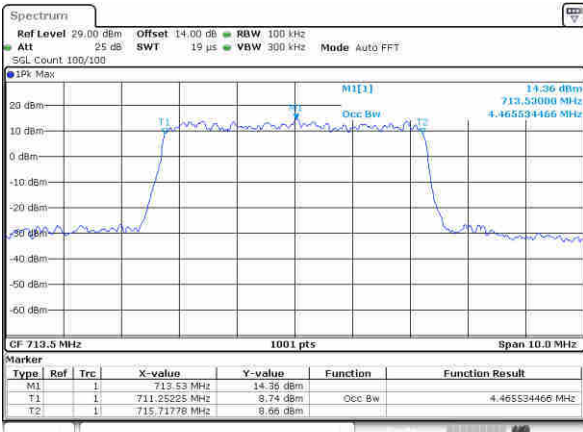
Date: 11.MAY.2020 02:10:42

Middle Channel / 10MHz / 64QAM



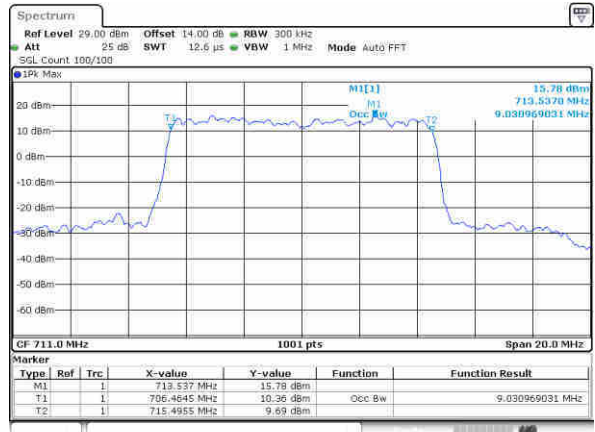
Date: 11.MAY.2020 02:10:46

Highest Channel / 5MHz / 64QAM



Date: 11.MAY.2020 02:10:35

Highest Channel / 10MHz / 64QAM



Date: 11.MAY.2020 02:10:32