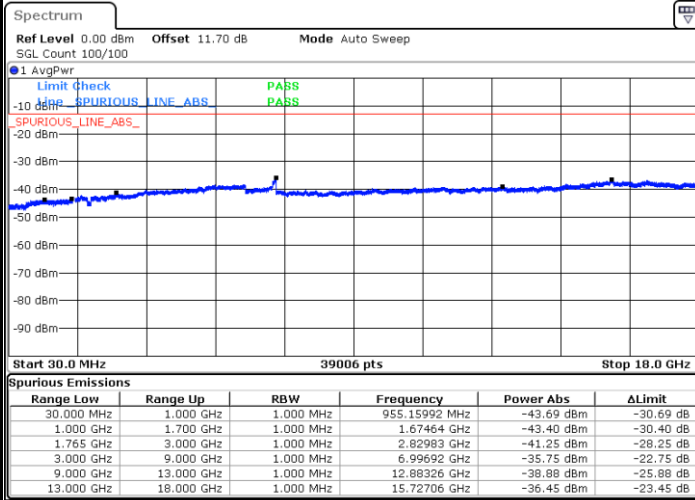




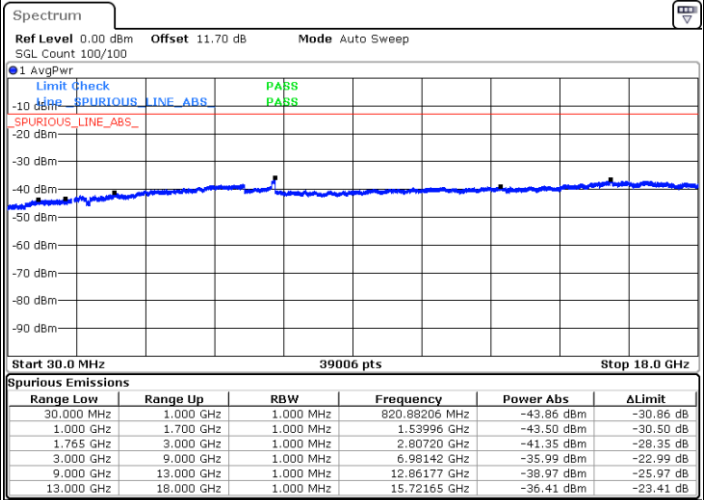
LTE Band 4 / 15MHz

Highest Channel / QPSK



Date: 12.FEB.2020 04:51:47

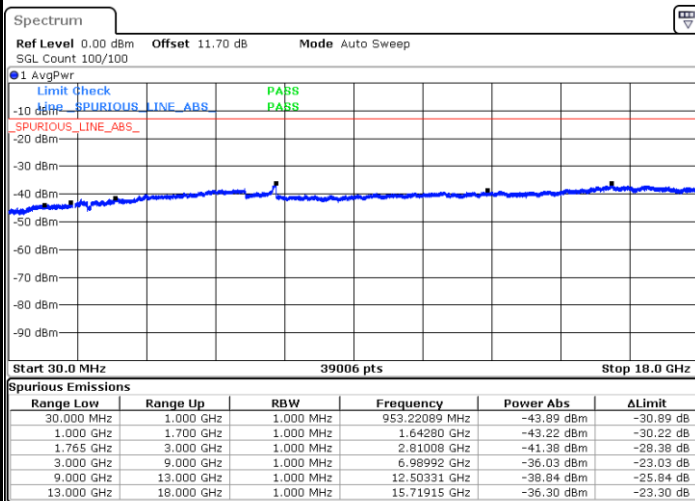
Highest Channel / 16QAM



Date: 12.FEB.2020 04:52:43

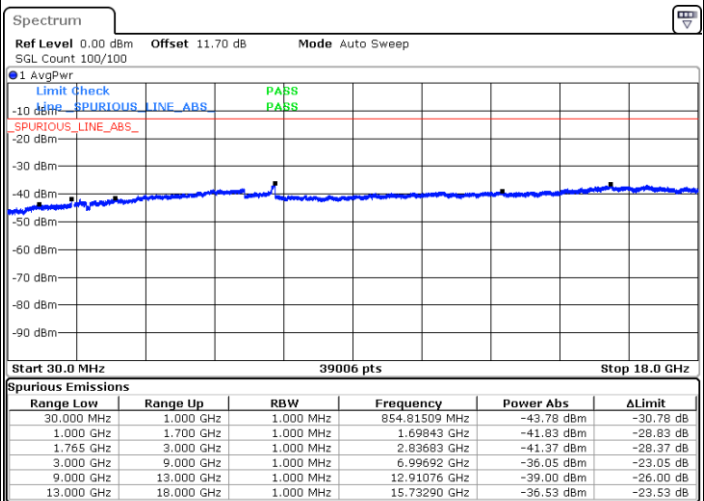
LTE Band 4 / 20MHz

Lowest Channel / QPSK



Date: 12.FEB.2020 05:18:18

Lowest Channel / 16QAM

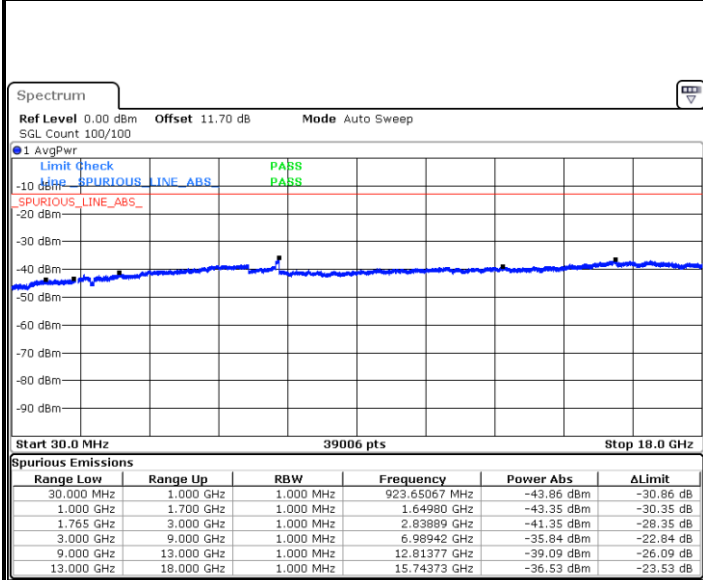


Date: 12.FEB.2020 05:19:10



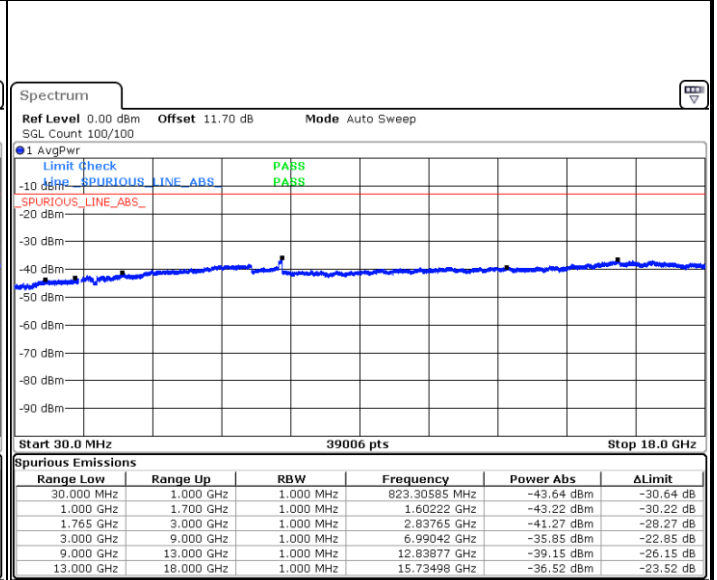
LTE Band 4 / 20MHz

Middle Channel / QPSK



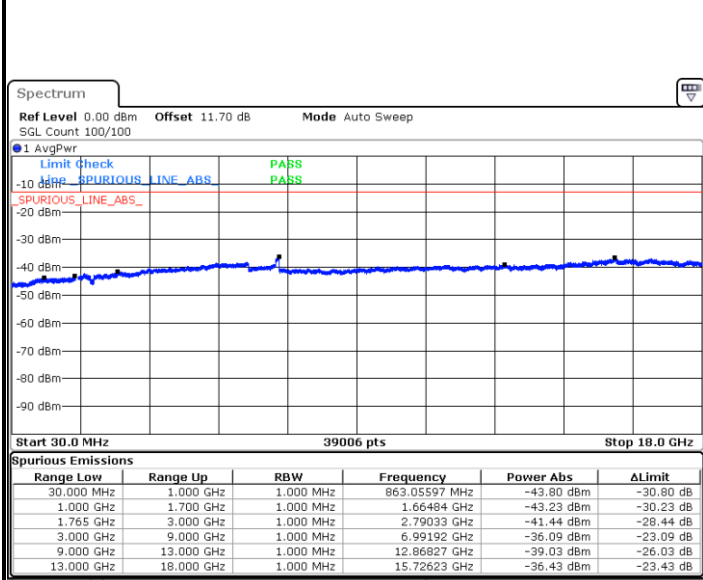
Date: 12.FEB.2020 05:21:25

Middle Channel / 16QAM



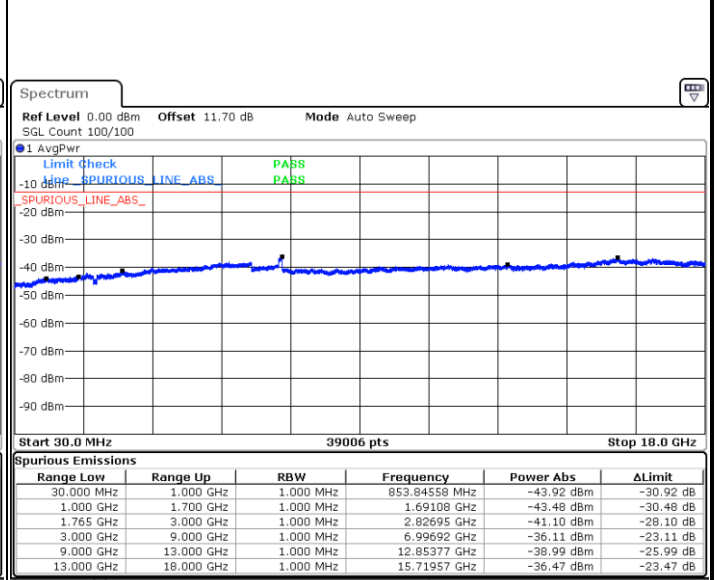
Date: 12.FEB.2020 05:22:19

Highest Channel / QPSK



Date: 12.FEB.2020 05:30:21

Highest Channel / 16QAM



Date: 12.FEB.2020 05:31:19



Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0027	PASS
40	Normal Voltage	0.0038	
30	Normal Voltage	0.0050	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0032	
0	Normal Voltage	0.0050	
-10	Normal Voltage	0.0066	
-20	Normal Voltage	0.0049	
-30	Normal Voltage	0.0006	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0033	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.3 V. ; Maximum Voltage =4.2 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 12

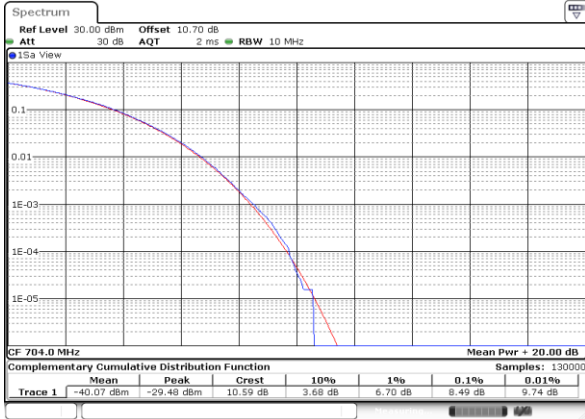
Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	8.49	8.35	8.52	8.46	PASS
Middle CH	8.38	7.65	8.41	8.43	
Highest CH	8.43	8.46	8.46	8.35	



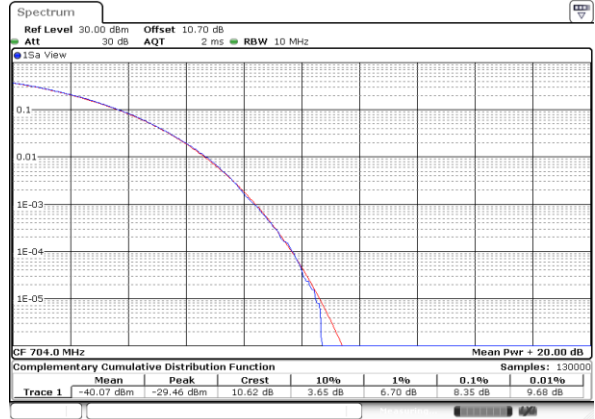
LTE Band 12 / 10MHz / QPSK

Lowest Channel / 1RB



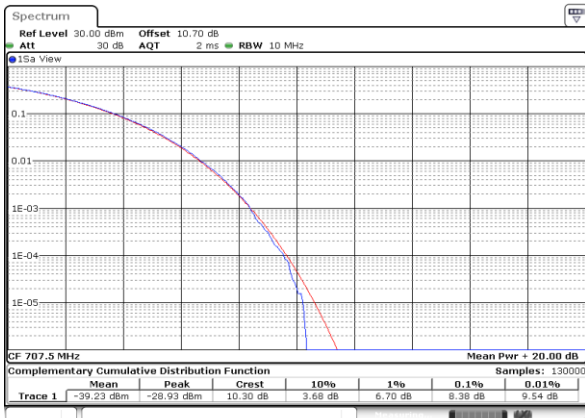
Date: 13.FEB.2020 06:58:07

Lowest Channel / Full RB



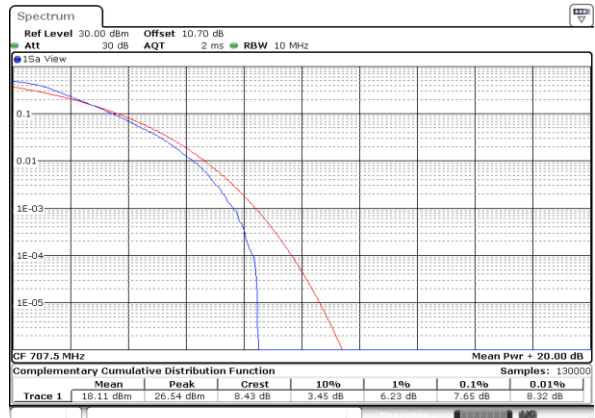
Date: 13.FEB.2020 06:15:32

Middle Channel / 1RB



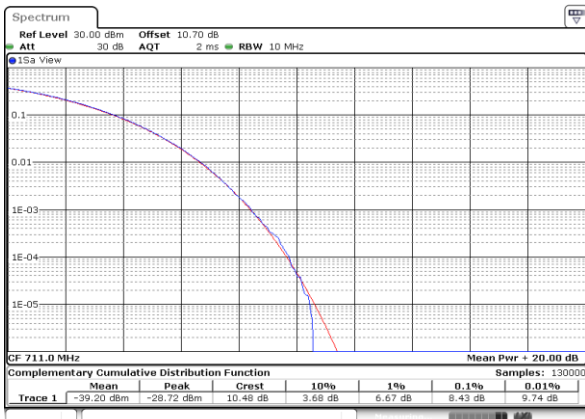
Date: 13.FEB.2020 06:58:52

Middle Channel / Full RB



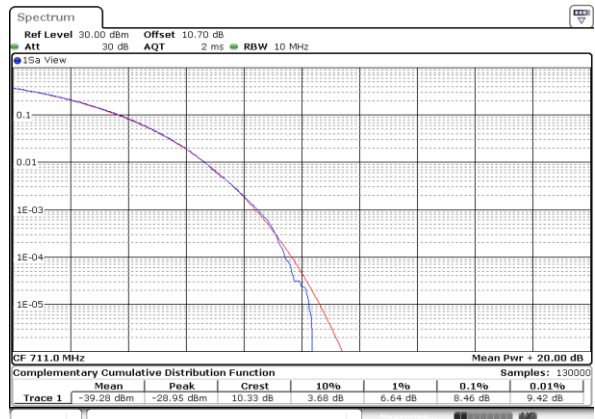
Date: 13.FEB.2020 06:15:21

Highest Channel / 1RB



Date: 13.FEB.2020 07:00:35

Highest Channel / Full RB

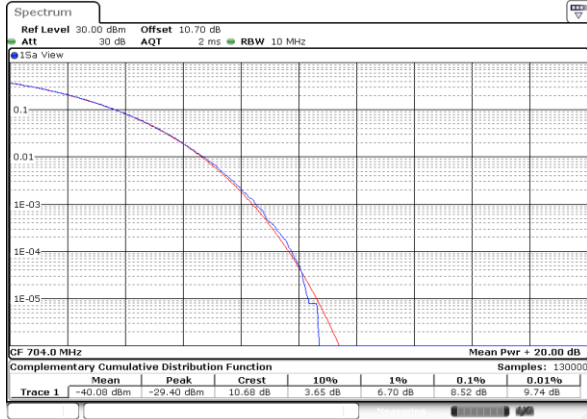


Date: 13.FEB.2020 06:15:50



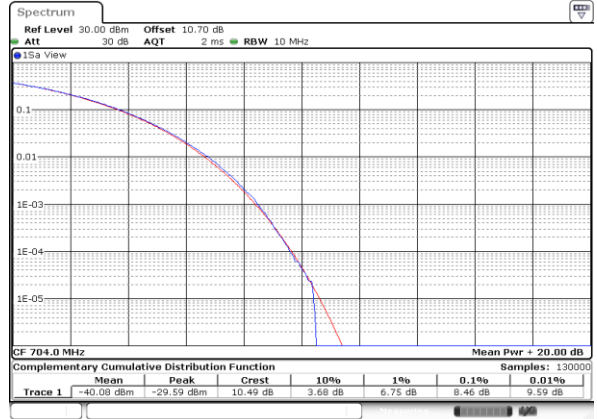
LTE Band 12 / 10MHz / 16QAM

Lowest Channel / 1RB



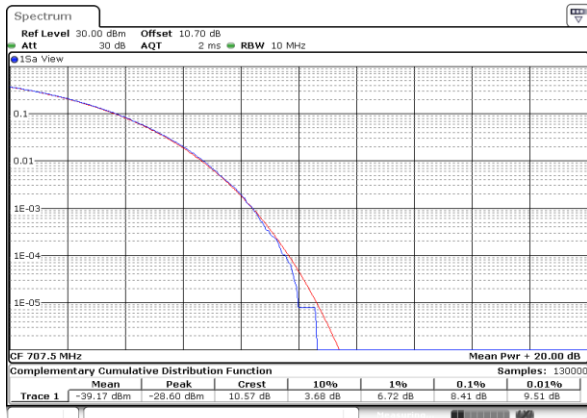
Date: 13.FEB.2020 06:55:23

Lowest Channel / Full RB



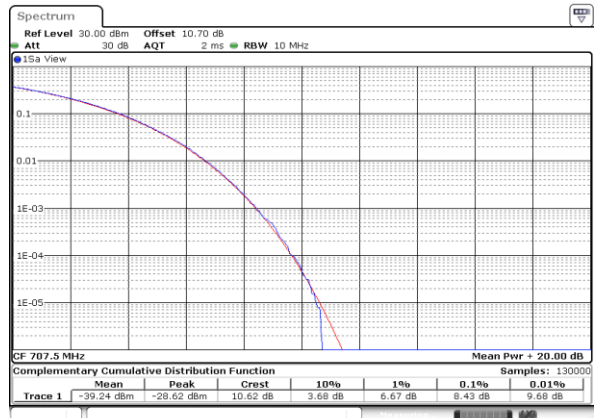
Date: 13.FEB.2020 06:54:47

Middle Channel / 1RB



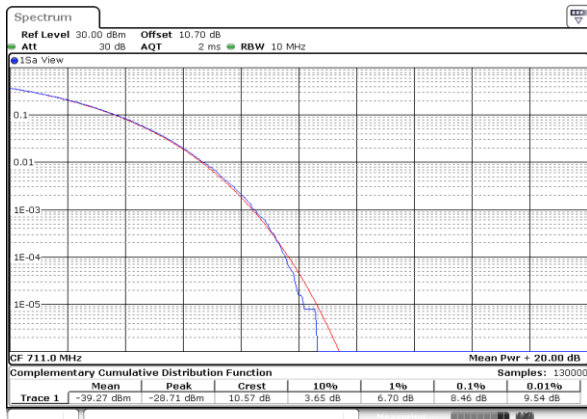
Date: 13.FEB.2020 06:55:47

Middle Channel / Full RB



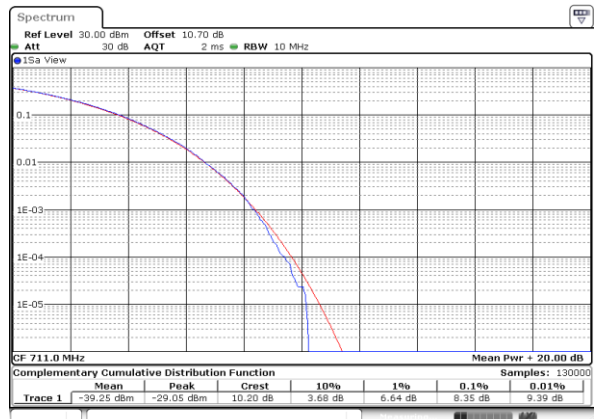
Date: 13.FEB.2020 06:56:10

Highest Channel / 1RB



Date: 13.FEB.2020 06:56:52

Highest Channel / Full RB



Date: 13.FEB.2020 06:56:36



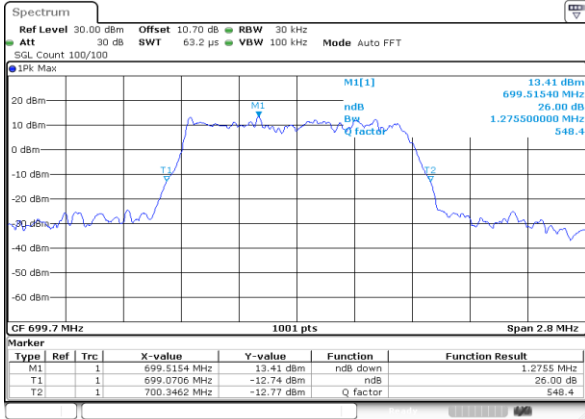
26dB Bandwidth

Mode	LTE Band 12 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.28	1.28	1.39	1.38	1.41	1.40	1.76	1.76	-	-	-	-
Middle CH	1.25	1.29	1.38	1.29	1.43	1.40	1.76	1.80	-	-	-	-
Highest CH	1.28	1.31	1.35	1.37	1.35	1.34	1.84	1.80	-	-	-	-

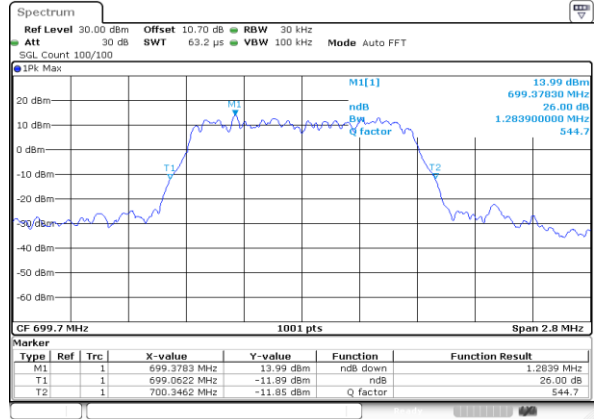


LTE Band 12

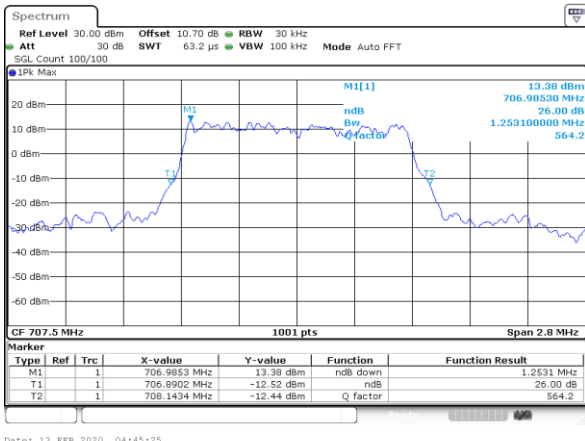
Lowest Channel / 1.4MHz / QPSK



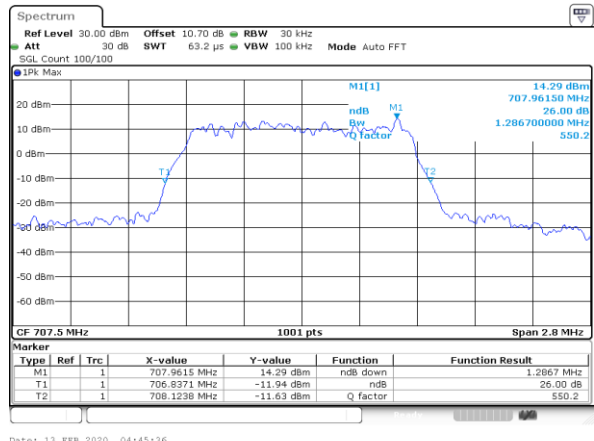
Lowest Channel / 1.4MHz / 16QAM



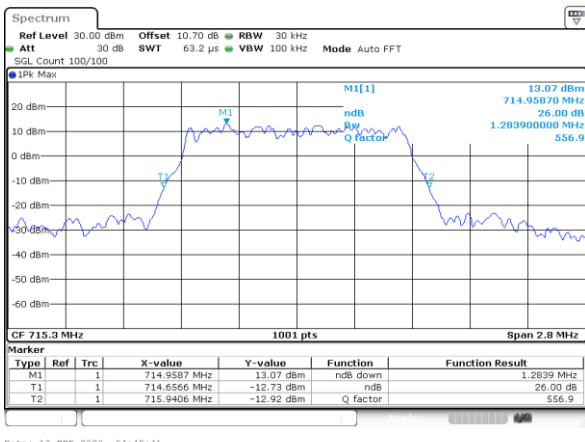
Middle Channel / 1.4MHz / QPSK



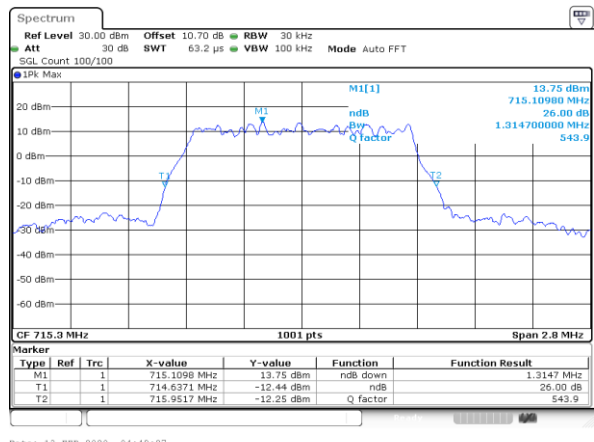
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



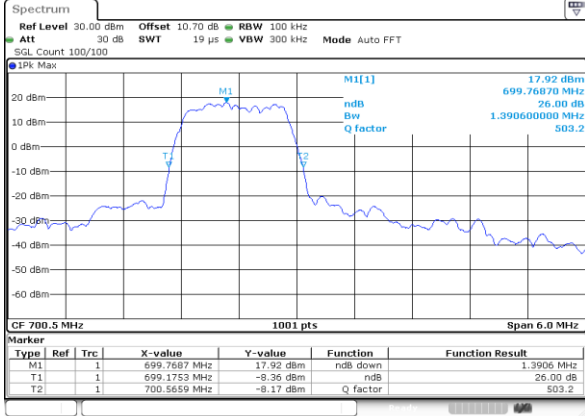
Highest Channel / 1.4MHz / 16QAM





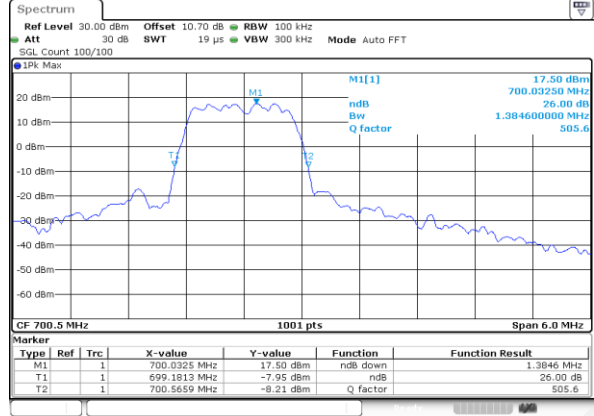
LTE Band 12

Lowest Channel / 3MHz / QPSK



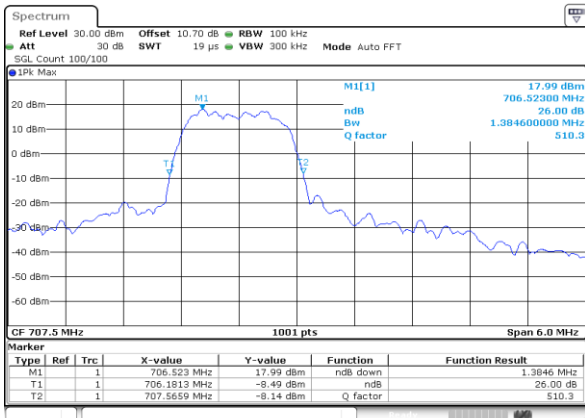
Date: 13.FEB.2020 05:01:51

Lowest Channel / 3MHz / 16QAM



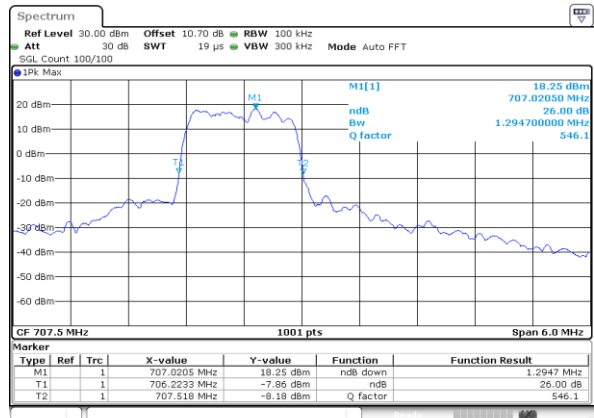
Date: 13.FEB.2020 05:10:53

Middle Channel / 3MHz / QPSK



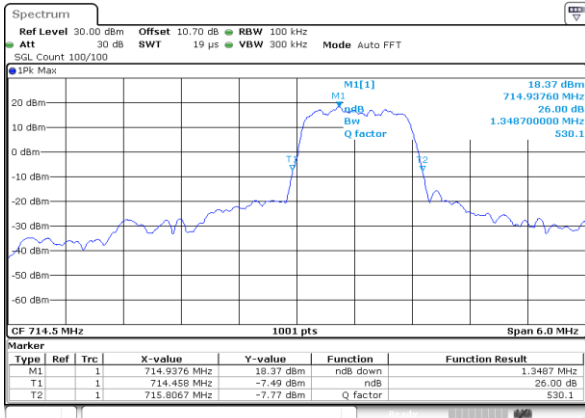
Date: 13.FEB.2020 05:11:54

Middle Channel / 3MHz / 16QAM



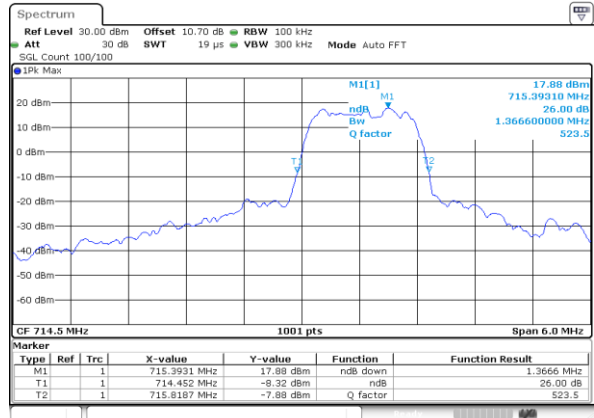
Date: 13.FEB.2020 05:12:11

Highest Channel / 3MHz / QPSK



Date: 13.FEB.2020 05:27:27

Highest Channel / 3MHz / 16QAM

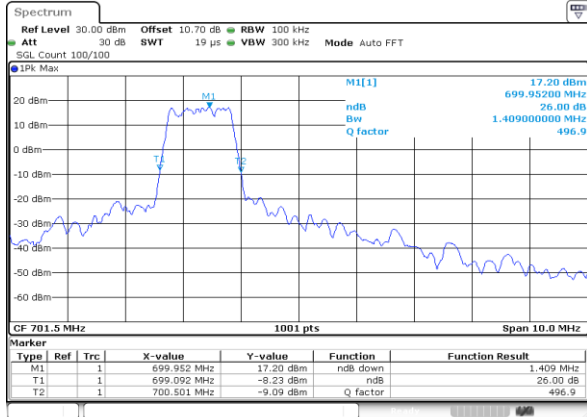


Date: 13.FEB.2020 05:27:06



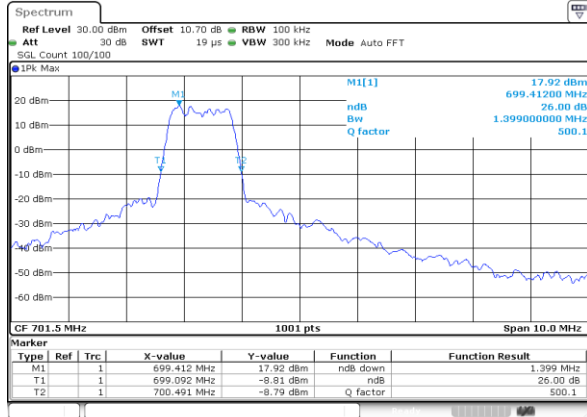
LTE Band 12

Lowest Channel / 5MHz / QPSK



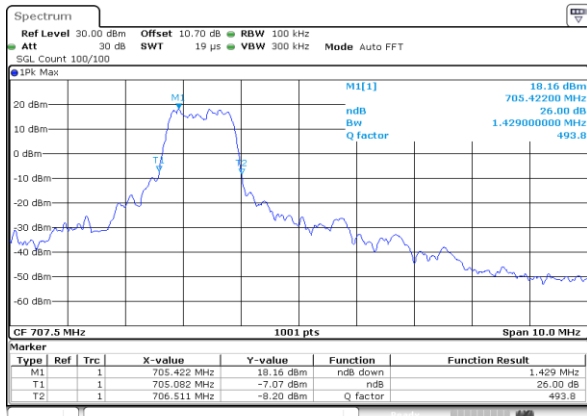
Date: 13.FEB.2020 05:48:45

Lowest Channel / 5MHz / 16QAM



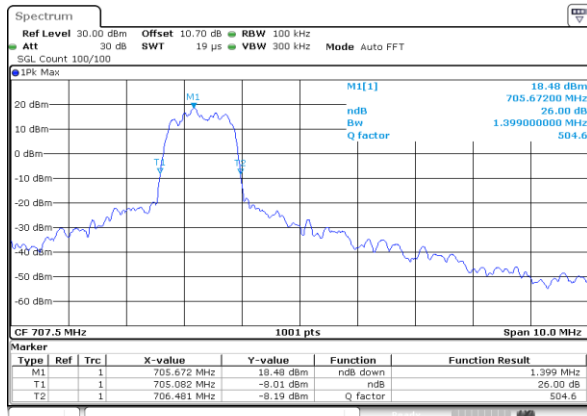
Date: 13.FEB.2020 05:48:29

Middle Channel / 5MHz / QPSK



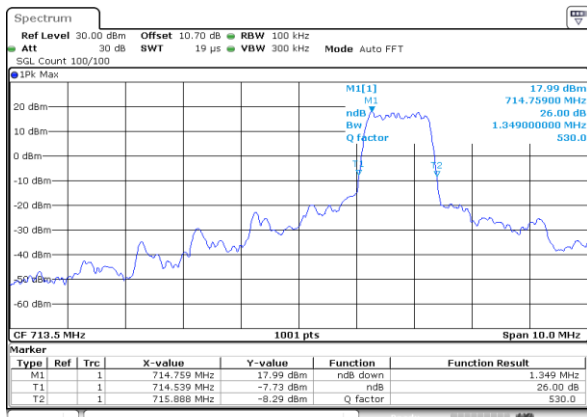
Date: 13.FEB.2020 05:57:10

Middle Channel / 5MHz / 16QAM



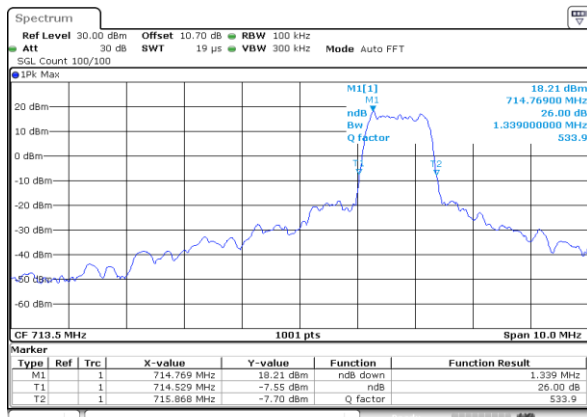
Date: 13.FEB.2020 05:57:31

Highest Channel / 5MHz / QPSK



Date: 13.FEB.2020 06:21:26

Highest Channel / 5MHz / 16QAM

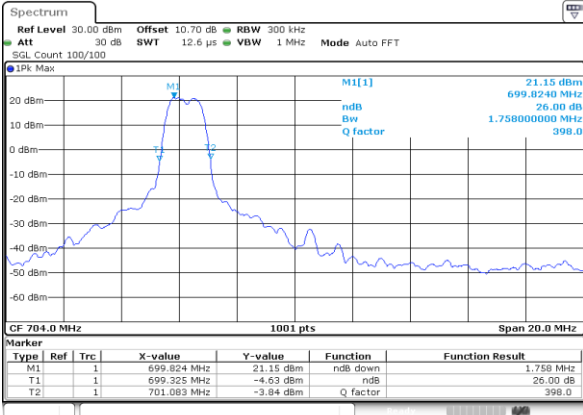


Date: 13.FEB.2020 06:21:02



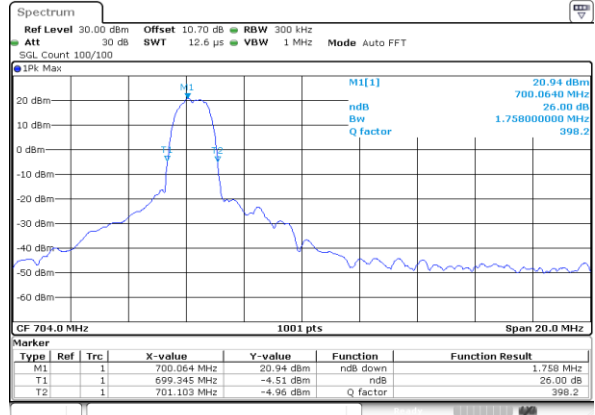
LTE Band 12

Lowest Channel / 10MHz / QPSK



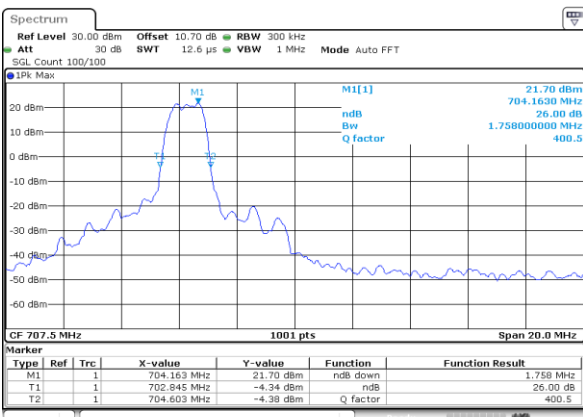
Date: 13.FEB.2020 06:30:16

Lowest Channel / 10MHz / 16QAM



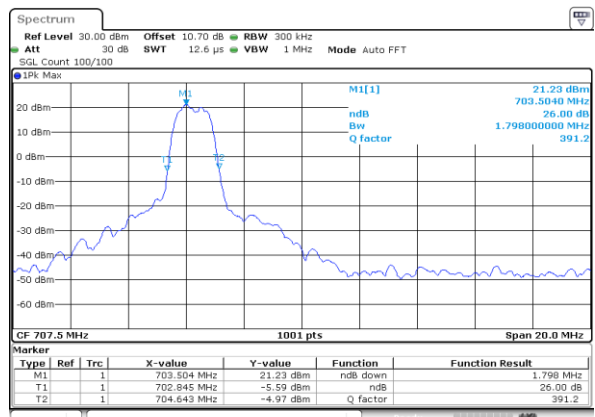
Date: 13.FEB.2020 06:12:51

Middle Channel / 10MHz / QPSK



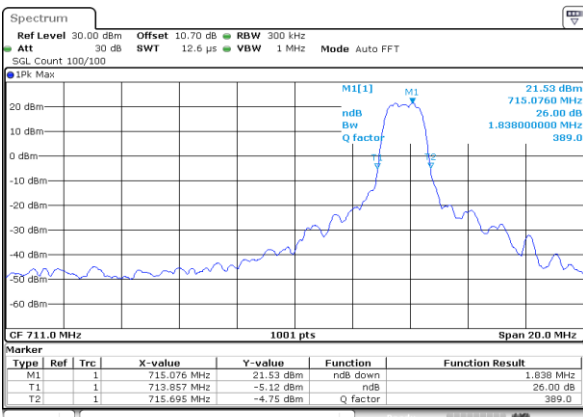
Date: 13.FEB.2020 06:39:14

Middle Channel / 10MHz / 16QAM



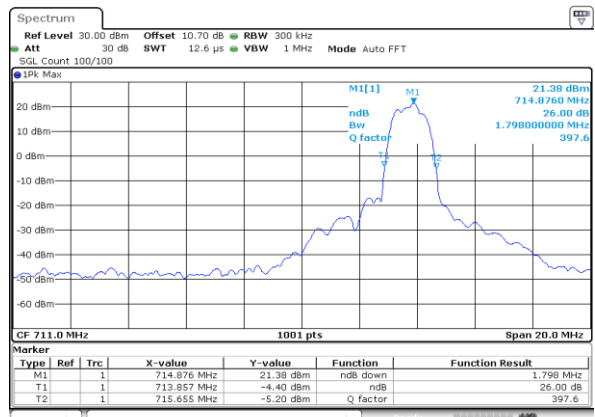
Date: 13.FEB.2020 06:13:35

Highest Channel / 10MHz / QPSK



Date: 13.FEB.2020 06:45:17

Highest Channel / 10MHz / 16QAM



Date: 13.FEB.2020 06:44:59



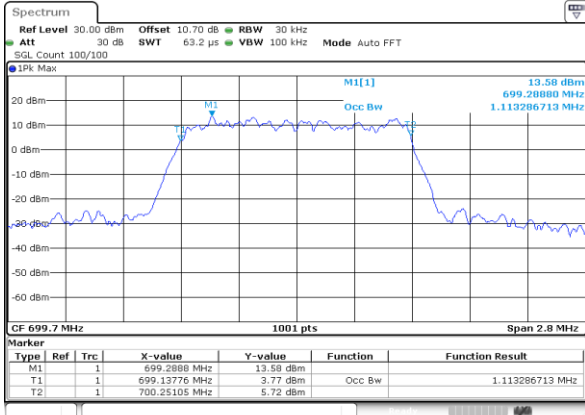
Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW												
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.11	1.09	1.18	1.18	1.20	1.18	1.48	1.40	-	-	-	-
Middle CH	1.09	1.09	1.13	1.17	1.19	1.15	1.46	1.50	-	-	-	-
Highest CH	1.09	1.11	1.18	1.16	1.15	1.18	1.42	1.46	-	-	-	-



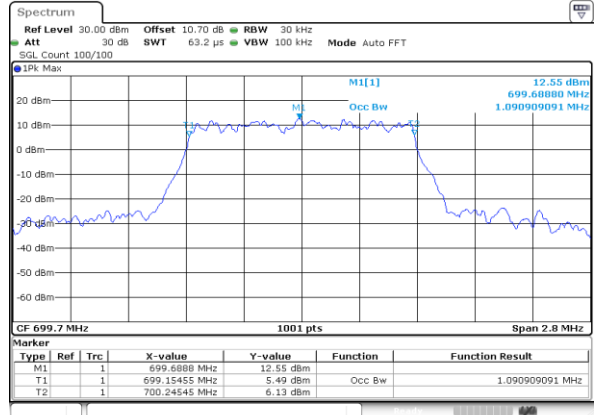
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



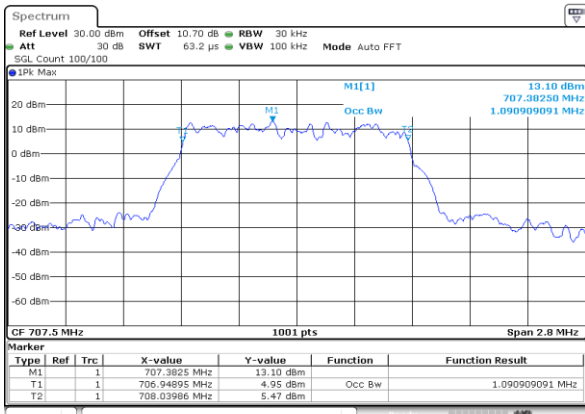
Date: 13.FEB.2020 04:32:12

Lowest Channel / 1.4MHz / 16QAM



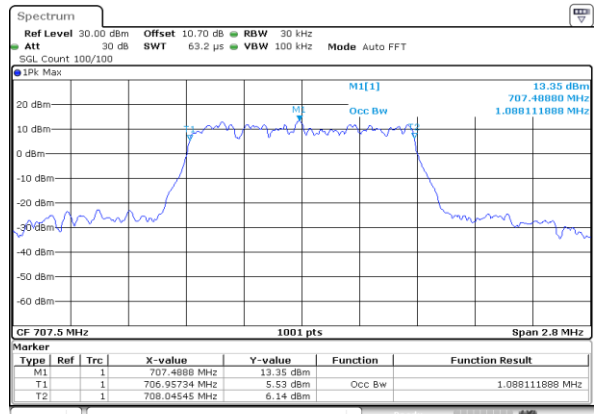
Date: 13.FEB.2020 04:32:124

Middle Channel / 1.4MHz / QPSK



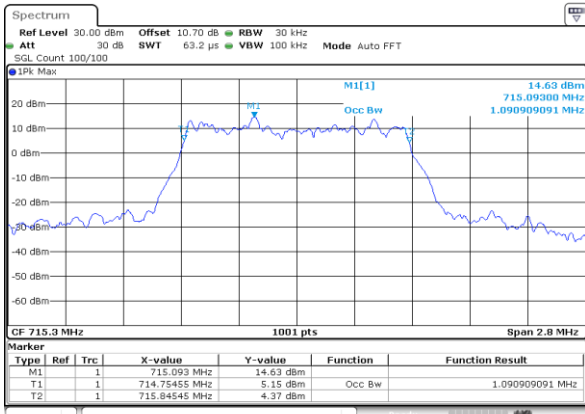
Date: 13.FEB.2020 04:45:12

Middle Channel / 1.4MHz / 16QAM



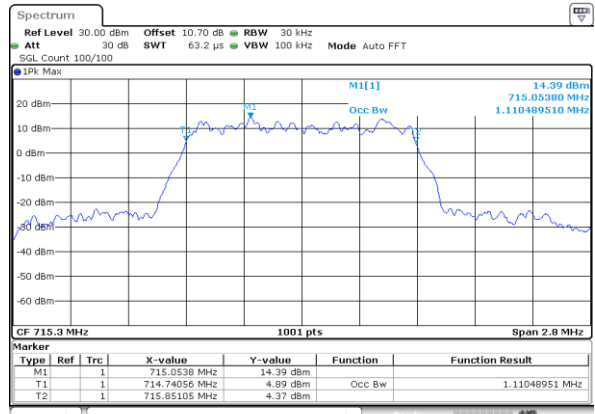
Date: 13.FEB.2020 04:44:59

Highest Channel / 1.4MHz / QPSK



Date: 13.FEB.2020 04:48:55

Highest Channel / 1.4MHz / 16QAM

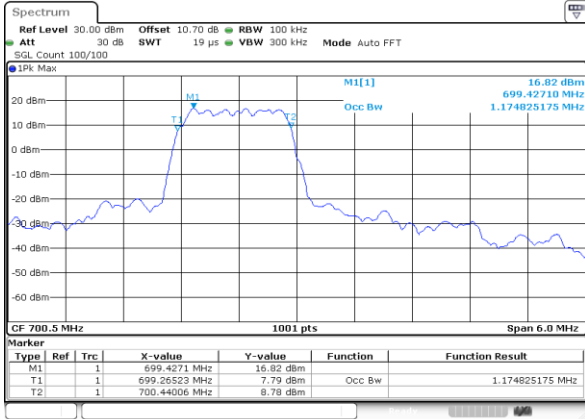


Date: 13.FEB.2020 04:49:15



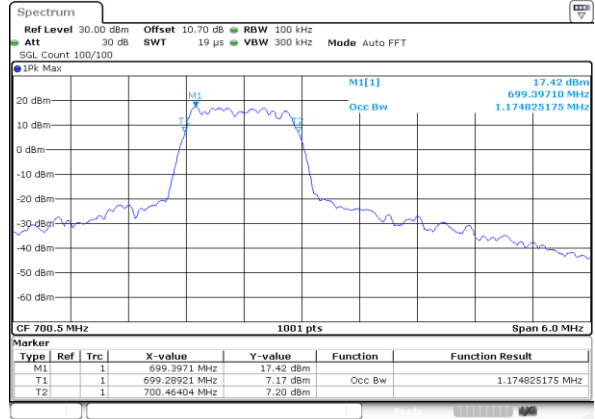
LTE Band 12

Lowest Channel / 3MHz / QPSK



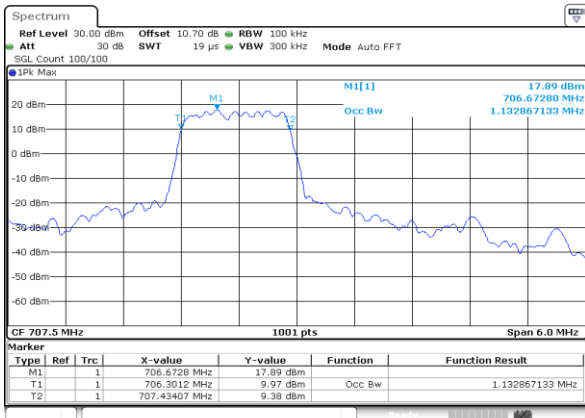
Date: 13.FEB.2020 05:00:16

Lowest Channel / 3MHz / 16QAM



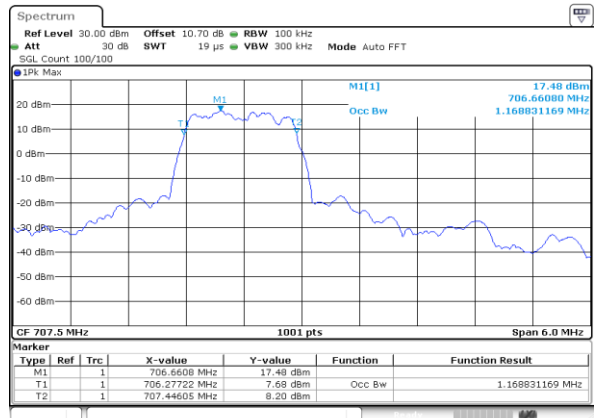
Date: 13.FEB.2020 05:00:32

Middle Channel / 3MHz / QPSK



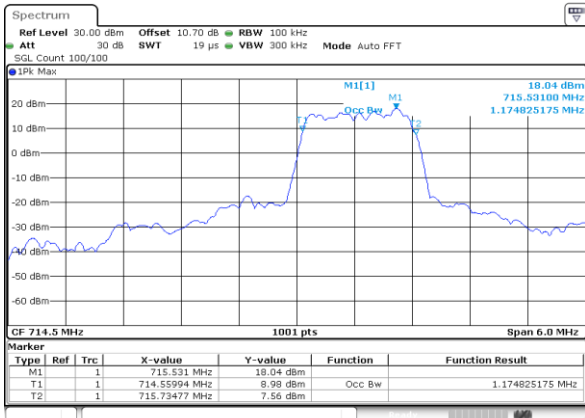
Date: 13.FEB.2020 05:11:41

Middle Channel / 3MHz / 16QAM



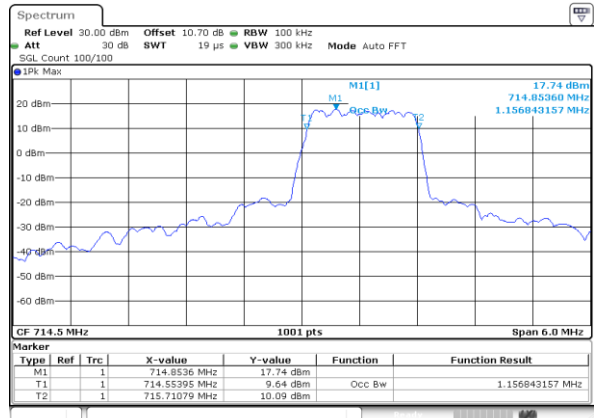
Date: 13.FEB.2020 05:11:26

Highest Channel / 3MHz / QPSK



Date: 13.FEB.2020 05:26:36

Highest Channel / 3MHz / 16QAM

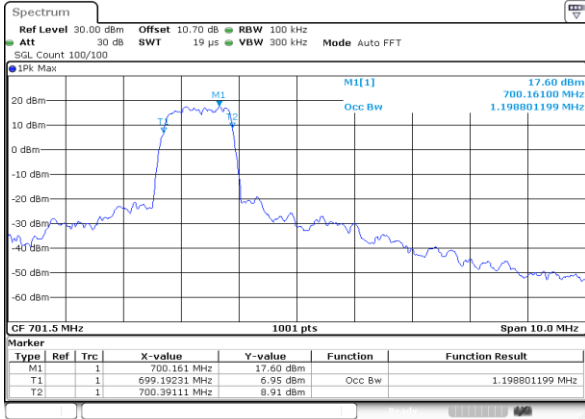


Date: 13.FEB.2020 05:26:52



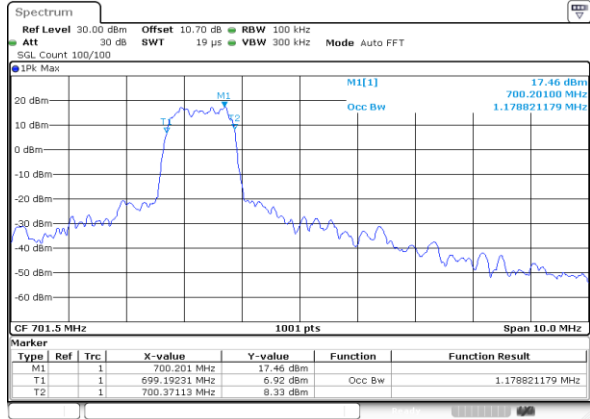
LTE Band 12

Lowest Channel / 5MHz / QPSK



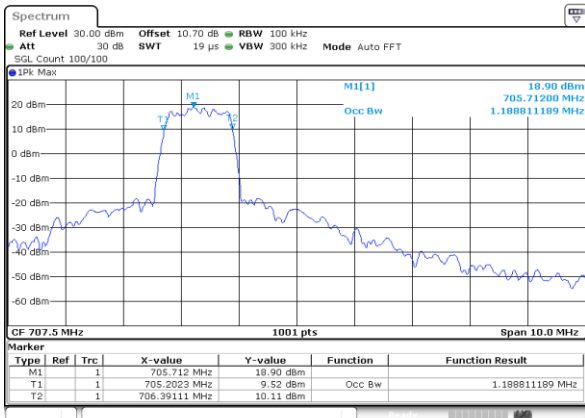
Date: 13.FEB.2020 05:47:56

Lowest Channel / 5MHz / 16QAM



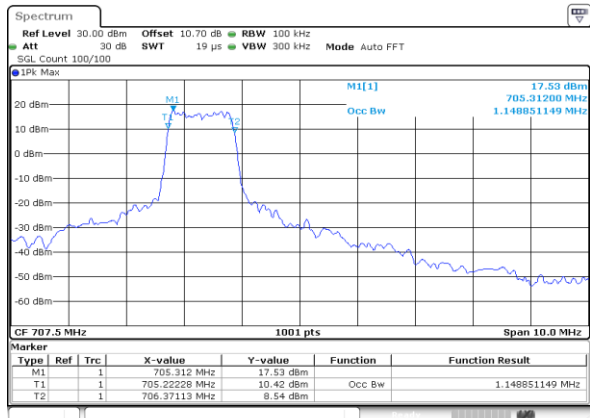
Date: 13.FEB.2020 05:48:16

Middle Channel / 5MHz / QPSK



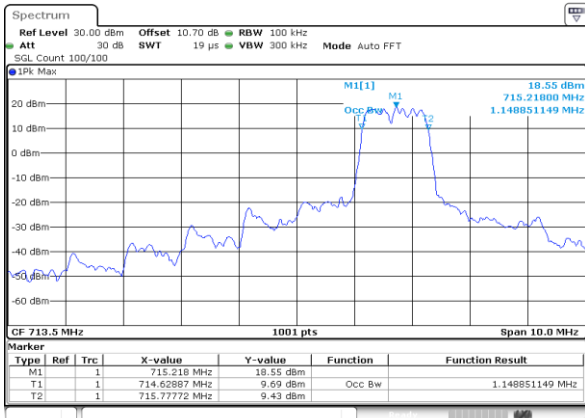
Date: 13.FEB.2020 05:56:55

Middle Channel / 5MHz / 16QAM



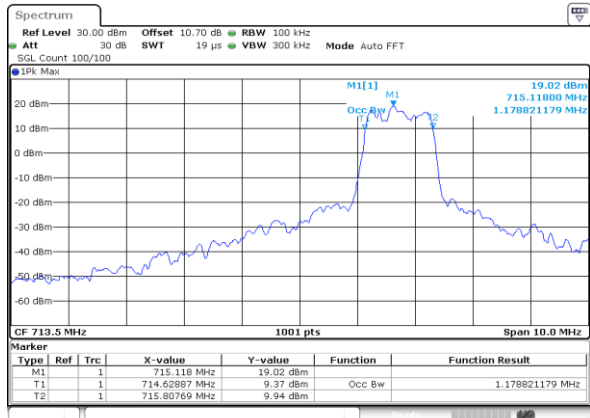
Date: 13.FEB.2020 05:56:37

Highest Channel / 5MHz / QPSK



Date: 13.FEB.2020 06:20:30

Highest Channel / 5MHz / 16QAM

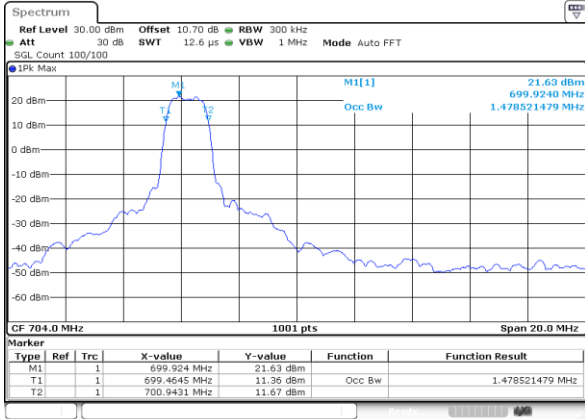


Date: 13.FEB.2020 06:20:48



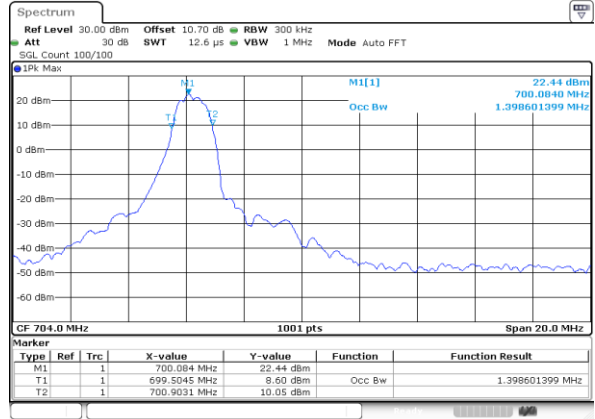
LTE Band 12

Lowest Channel / 10MHz / QPSK



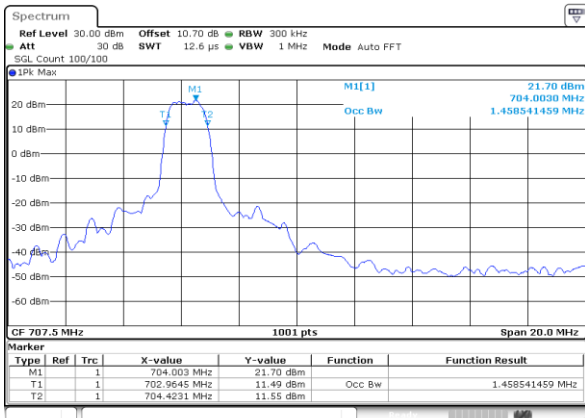
Date: 13.FEB.2020 06:29:18

Lowest Channel / 10MHz / 16QAM



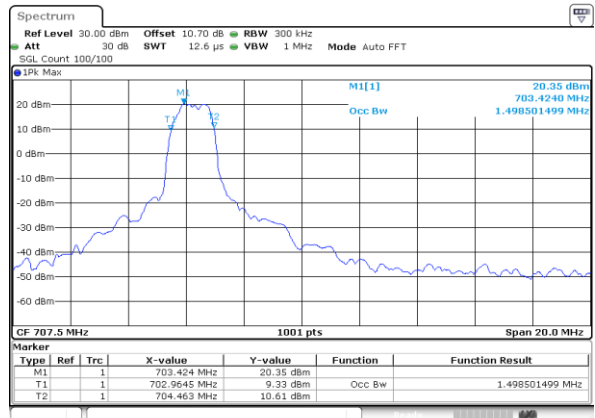
Date: 13.FEB.2020 06:12:33

Middle Channel / 10MHz / QPSK



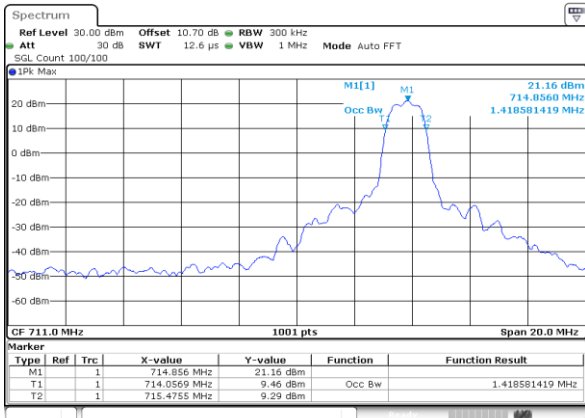
Date: 13.FEB.2020 06:38:59

Middle Channel / 10MHz / 16QAM



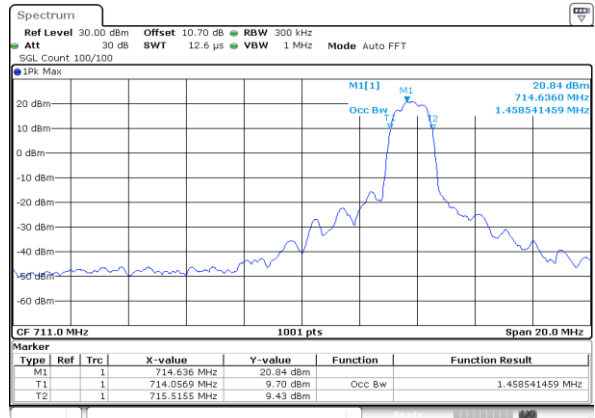
Date: 13.FEB.2020 06:13:42

Highest Channel / 10MHz / QPSK



Date: 13.FEB.2020 06:42:52

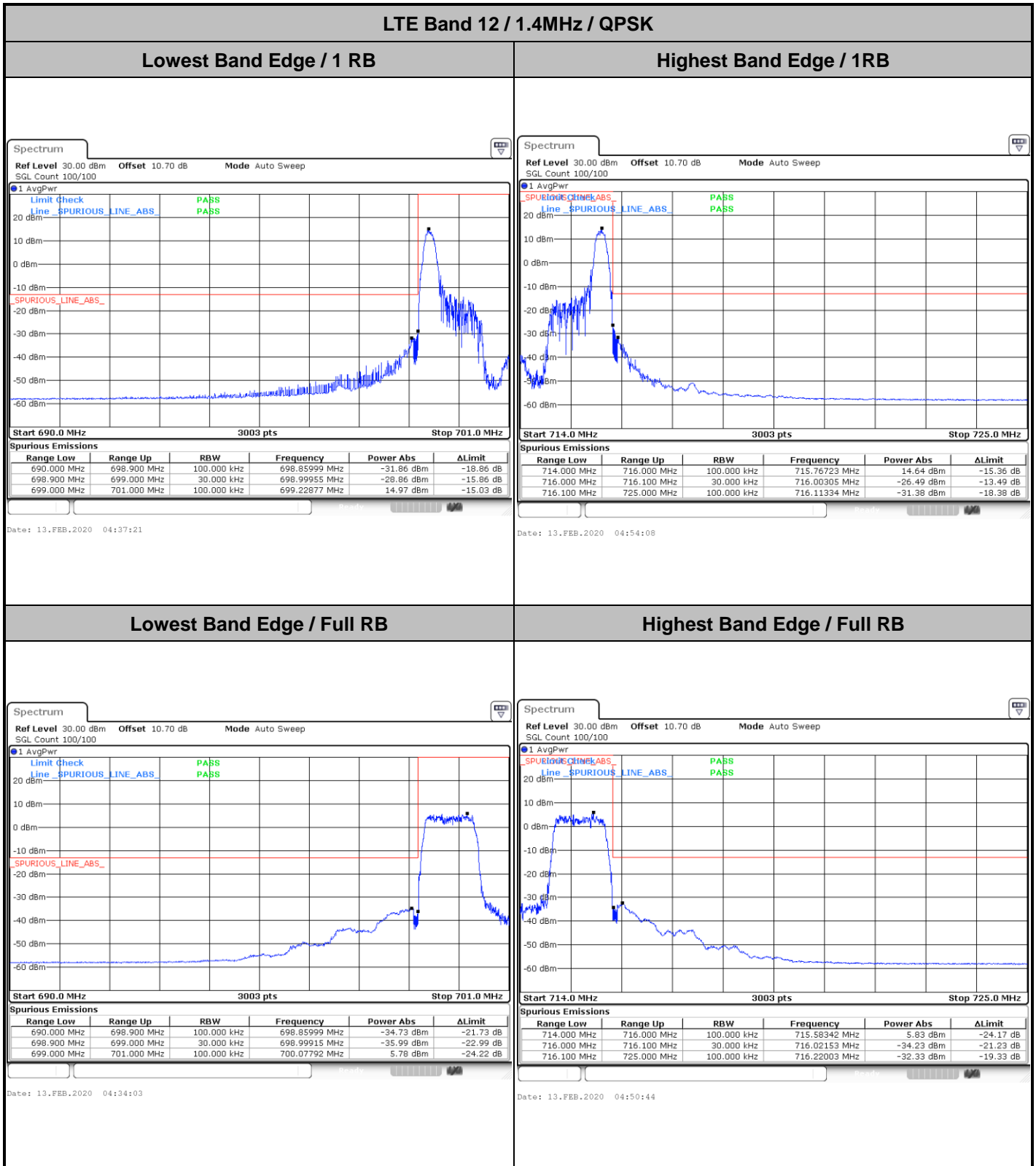
Highest Channel / 10MHz / 16QAM



Date: 13.FEB.2020 06:44:20



Conducted Band Edge

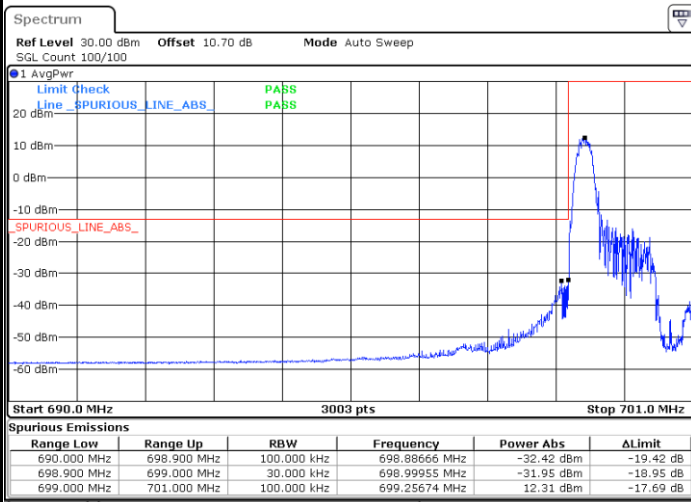




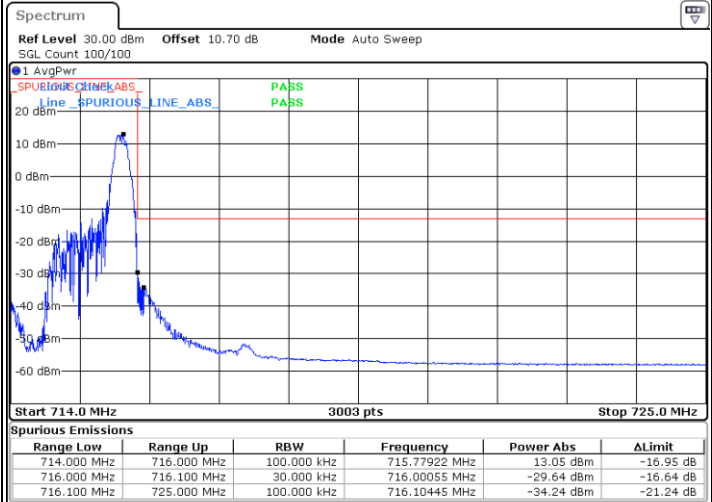
LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



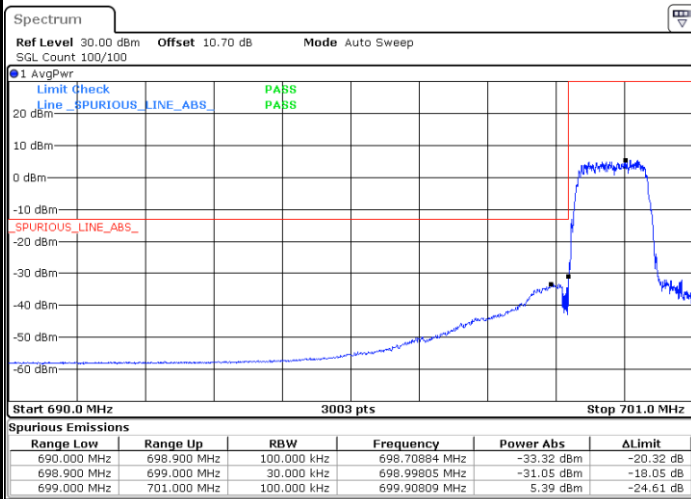
Date: 13.FEB.2020 04:36:17



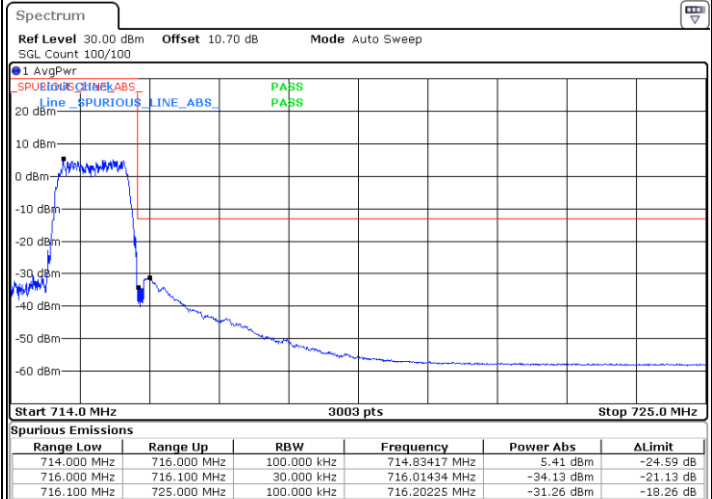
Date: 13.FEB.2020 04:53:03

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 13.FEB.2020 04:35:13

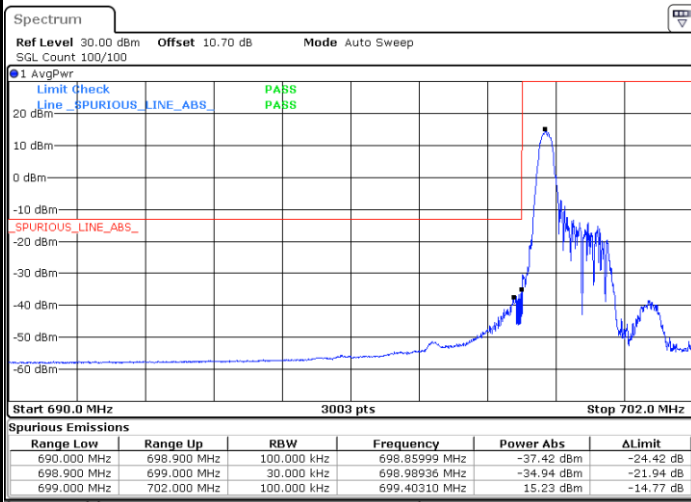


Date: 13.FEB.2020 04:51:49



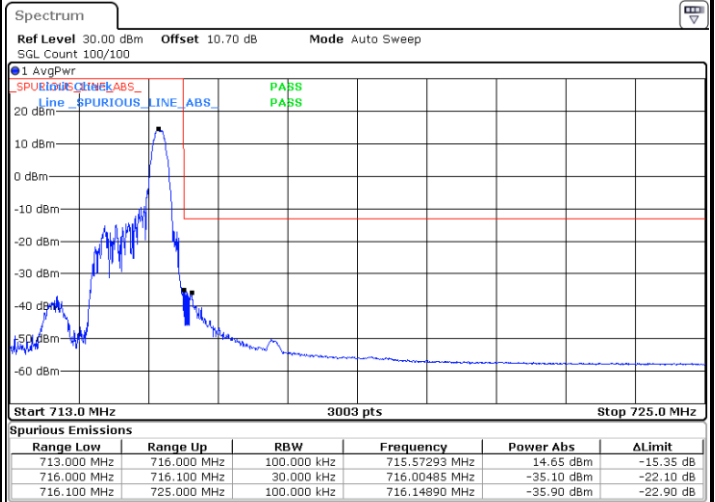
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



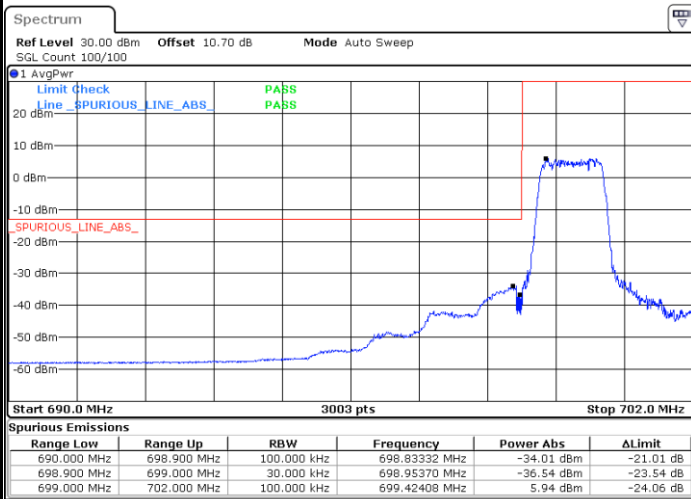
Date: 13.FEB.2020 05:07:21

Highest Band Edge / 1 RB



Date: 13.FEB.2020 05:31:46

Lowest Band Edge / Full RB



Date: 13.FEB.2020 05:03:03

Highest Band Edge / Full RB

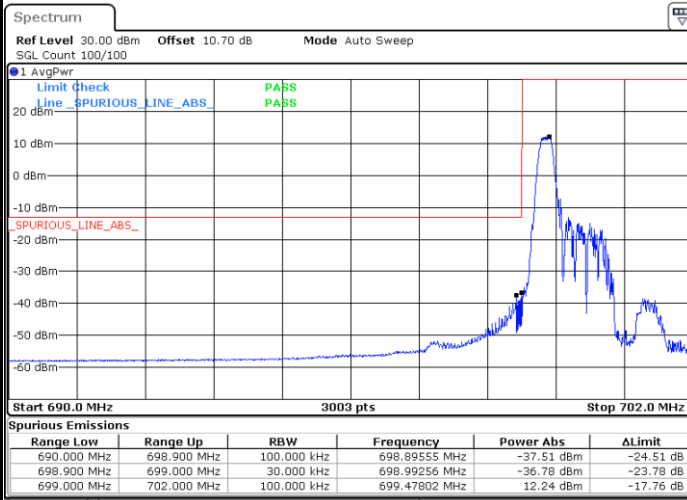


Date: 13.FEB.2020 05:28:32



LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



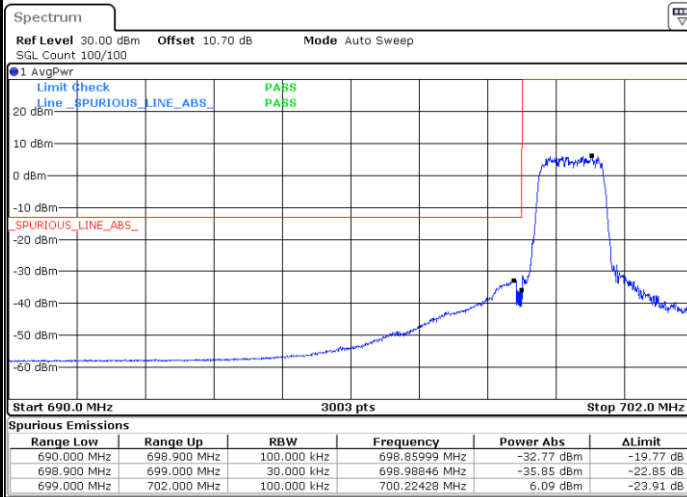
Date: 13.FEB.2020 05:05:22

Highest Band Edge / 1 RB



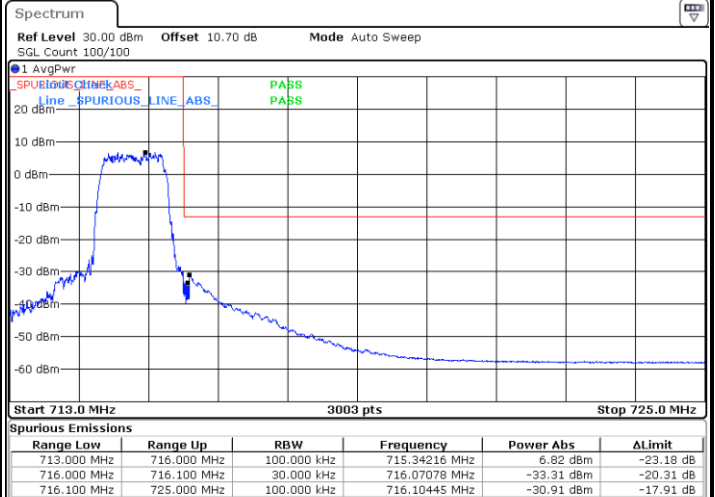
Date: 13.FEB.2020 05:30:42

Lowest Band Edge / Full RB



Date: 13.FEB.2020 05:04:07

Highest Band Edge / Full RB

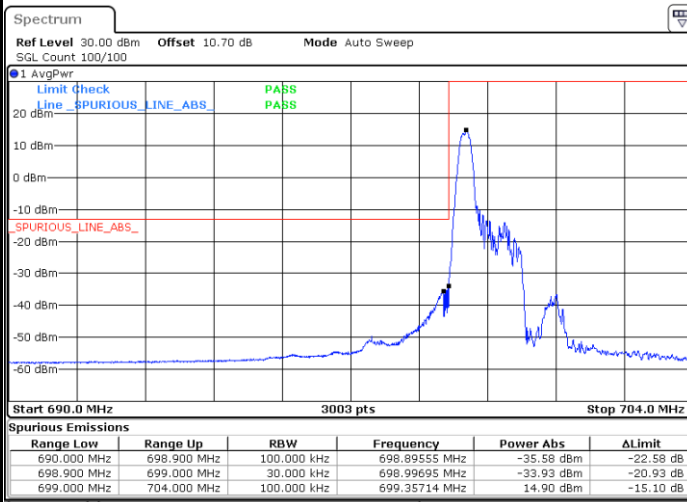


Date: 13.FEB.2020 05:29:36



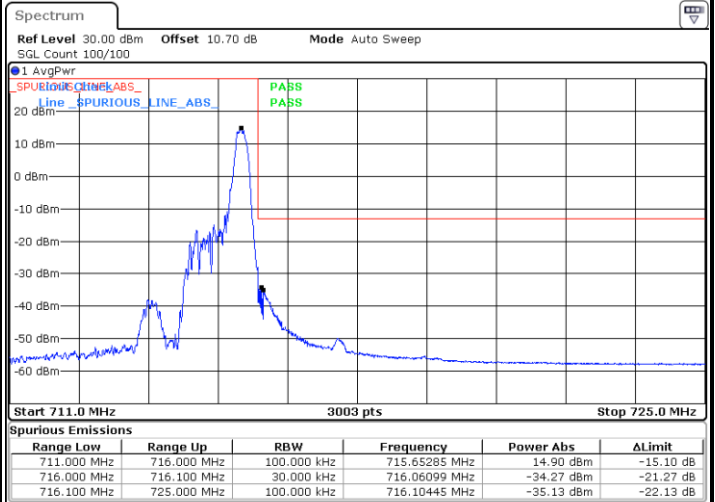
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



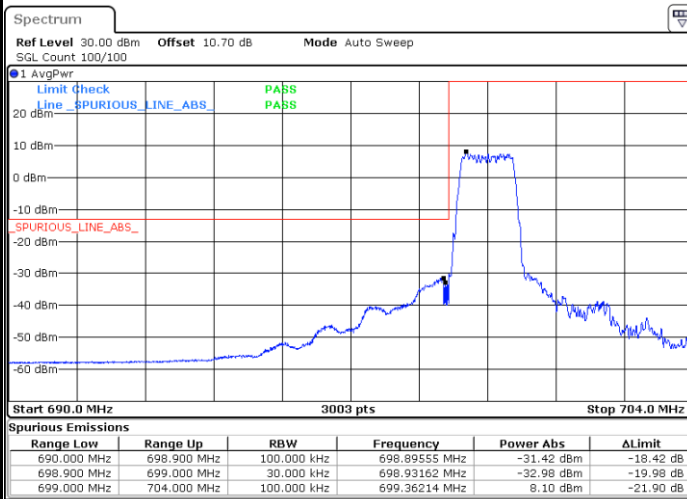
Date: 13.FEB.2020 05:53:02

Highest Band Edge / 1 RB



Date: 13.FEB.2020 06:24:44

Lowest Band Edge / Full RB



Date: 13.FEB.2020 05:49:50

Highest Band Edge / Full RB

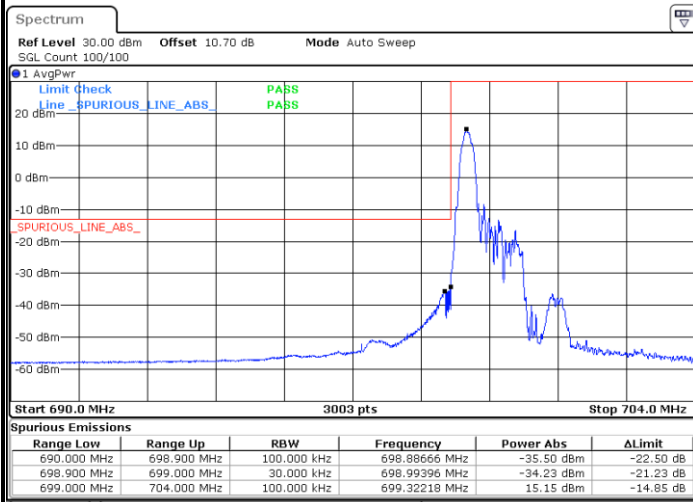


Date: 13.FEB.2020 06:22:27



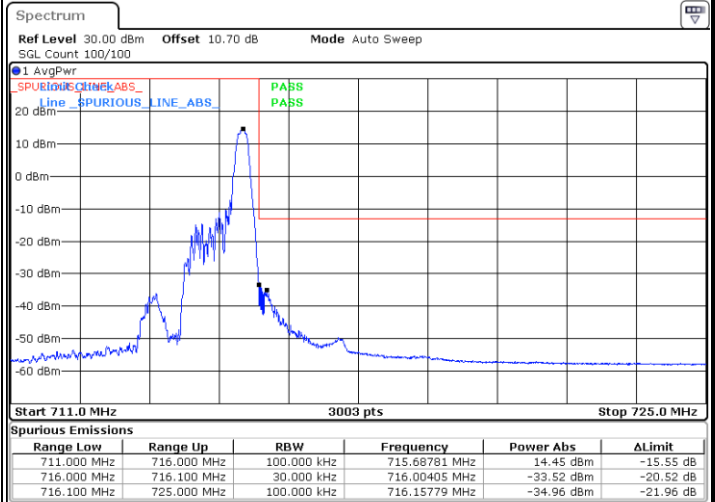
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



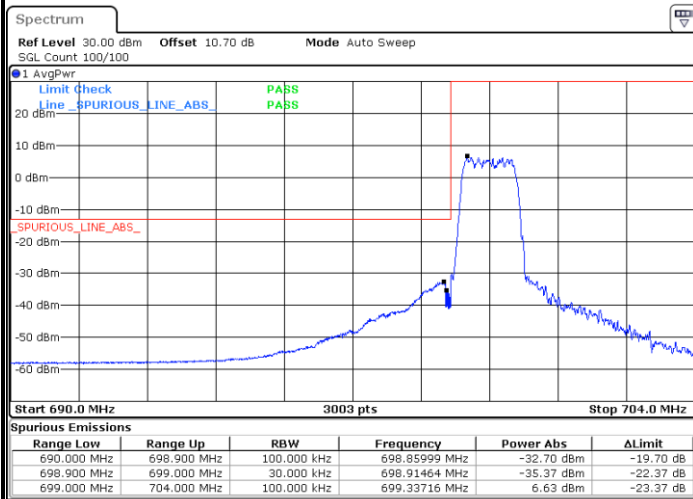
Date: 13.FEB.2020 05:51:59

Highest Band Edge / 1 RB



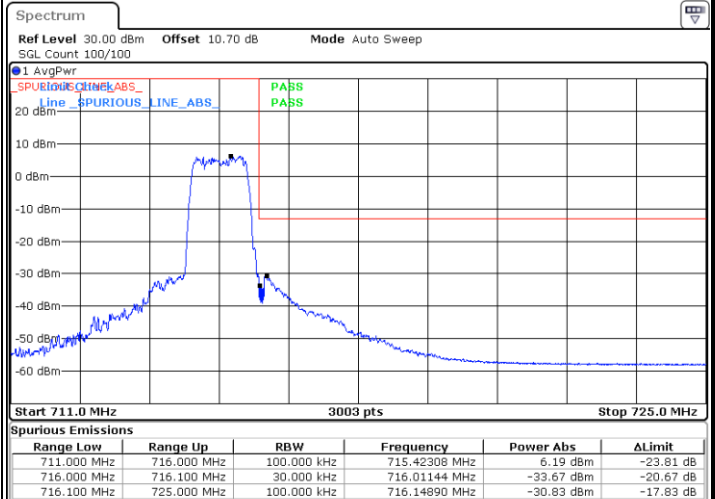
Date: 13.FEB.2020 06:25:49

Lowest Band Edge / Full RB



Date: 13.FEB.2020 05:50:55

Highest Band Edge / Full RB

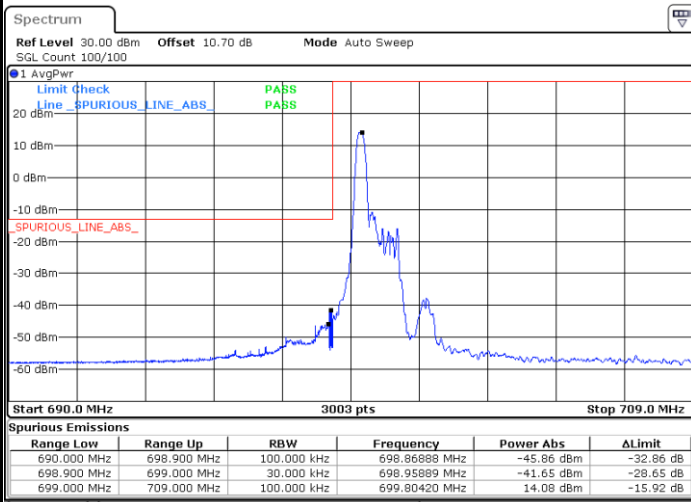


Date: 13.FEB.2020 06:23:35



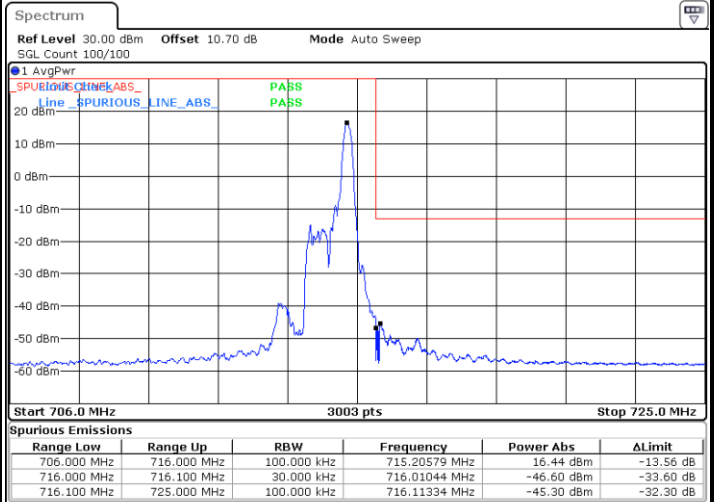
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



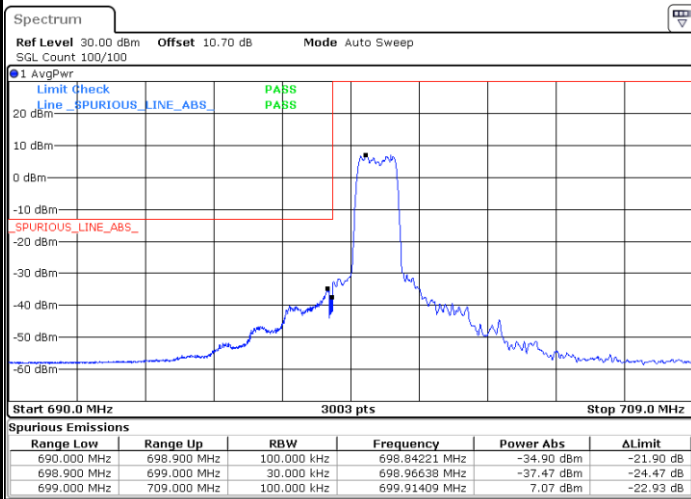
Date: 13.FEB.2020 06:35:39

Highest Band Edge / 1 RB



Date: 13.FEB.2020 06:51:42

Lowest Band Edge / Full RB



Date: 13.FEB.2020 06:32:05

Highest Band Edge / Full RB

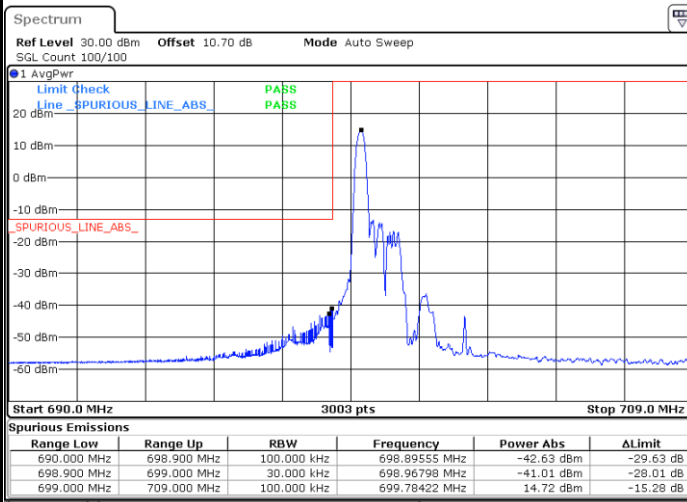


Date: 13.FEB.2020 06:47:46



LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



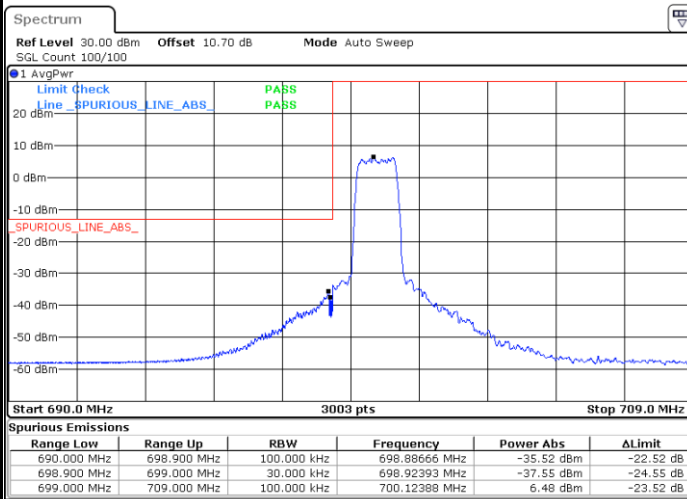
Date: 13.FEB.2020 06:34:26

Highest Band Edge / 1 RB



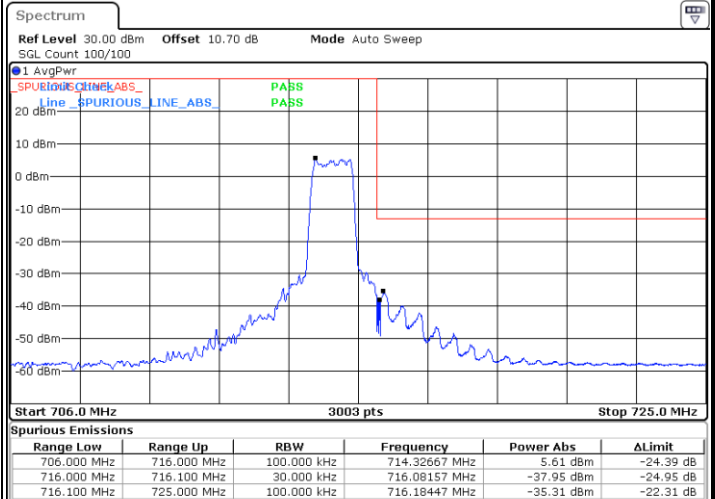
Date: 13.FEB.2020 06:50:38

Lowest Band Edge / Full RB



Date: 13.FEB.2020 06:33:12

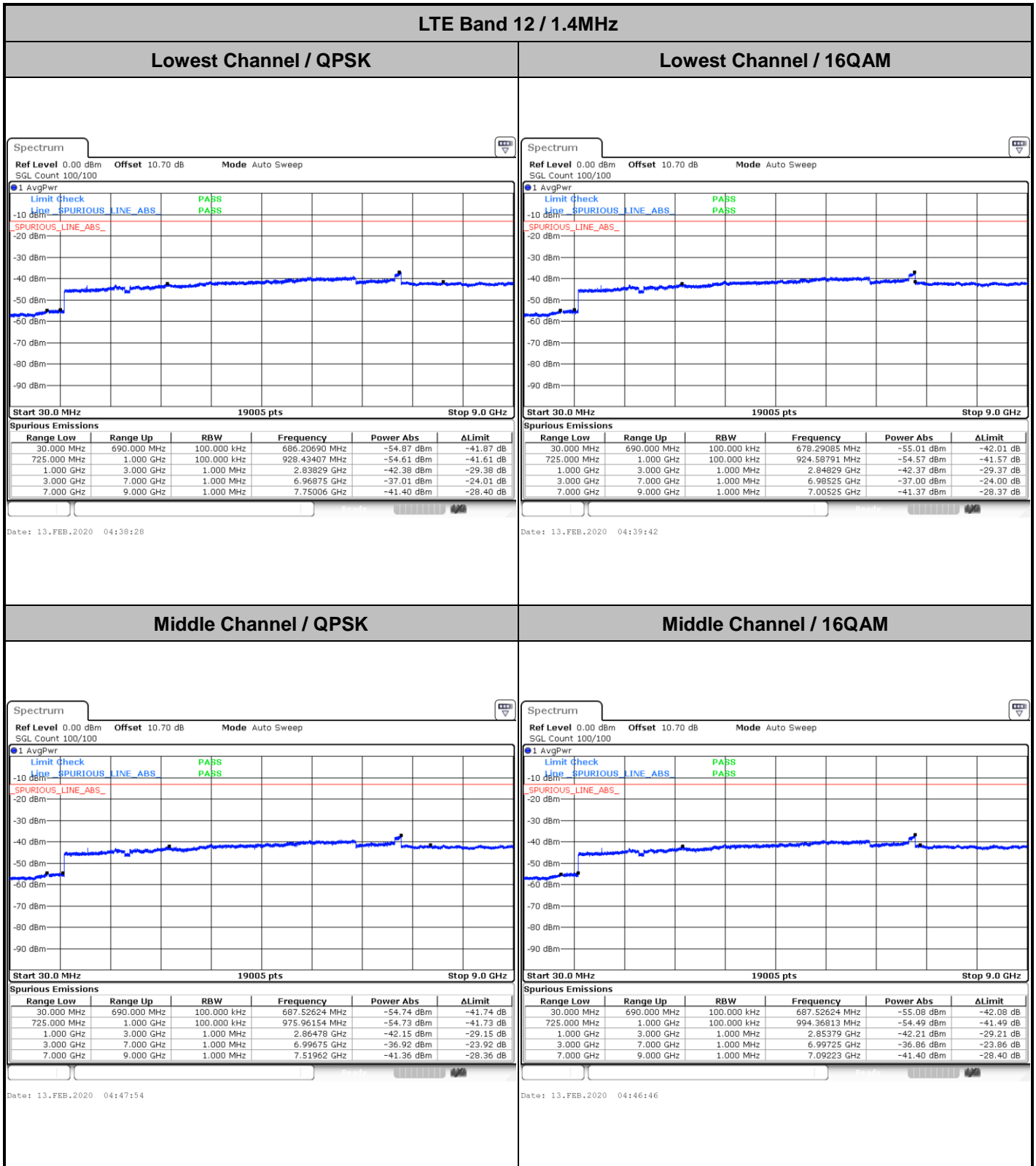
Highest Band Edge / Full RB



Date: 13.FEB.2020 06:49:17



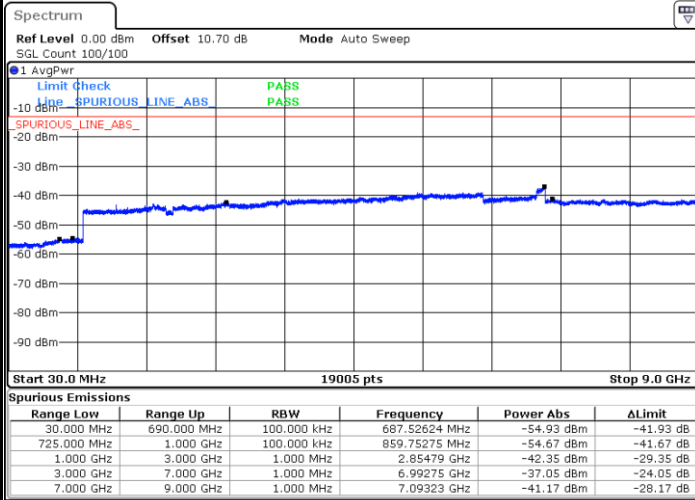
Conducted Spurious Emission





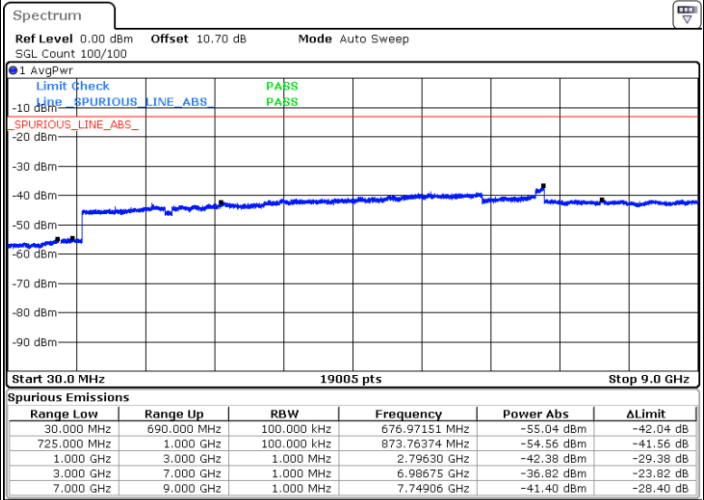
LTE Band 12 / 1.4MHz

Highest Channel / QPSK



Date: 13.FEB.2020 04:55:16

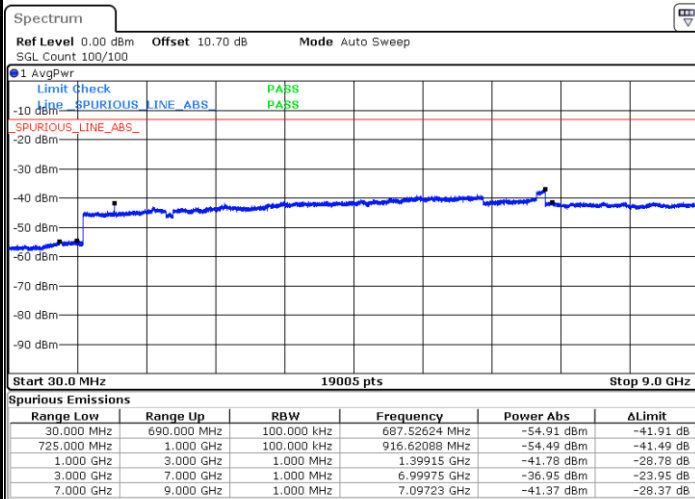
Highest Channel / 16QAM



Date: 13.FEB.2020 04:56:26

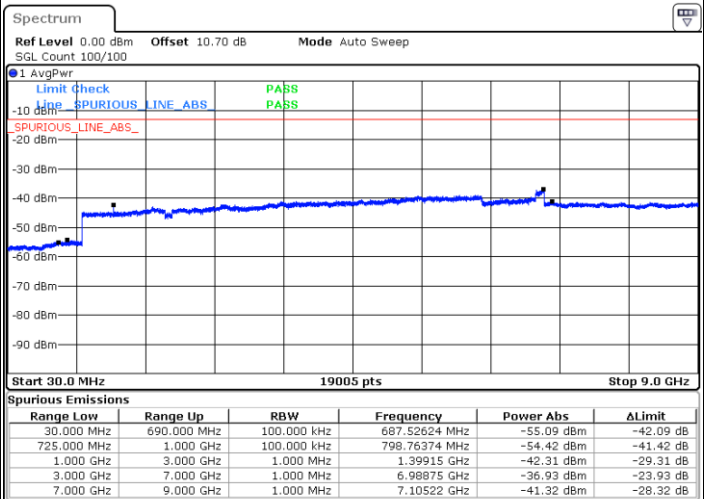
LTE Band 12 / 3MHz

Lowest Channel / QPSK



Date: 13.FEB.2020 05:09:30

Lowest Channel / 16QAM



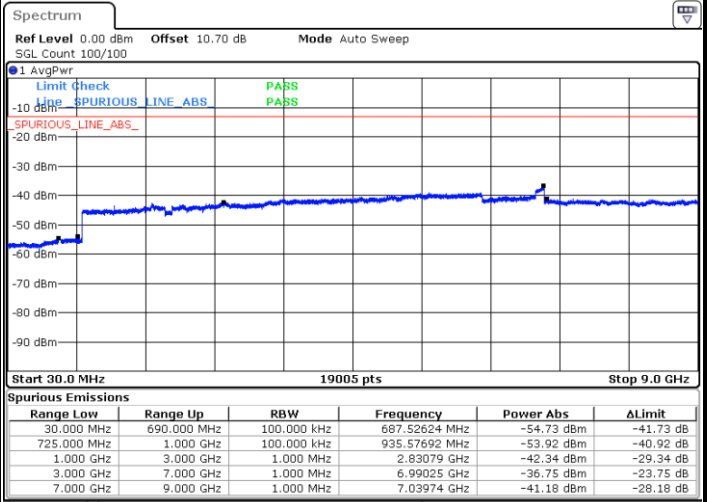
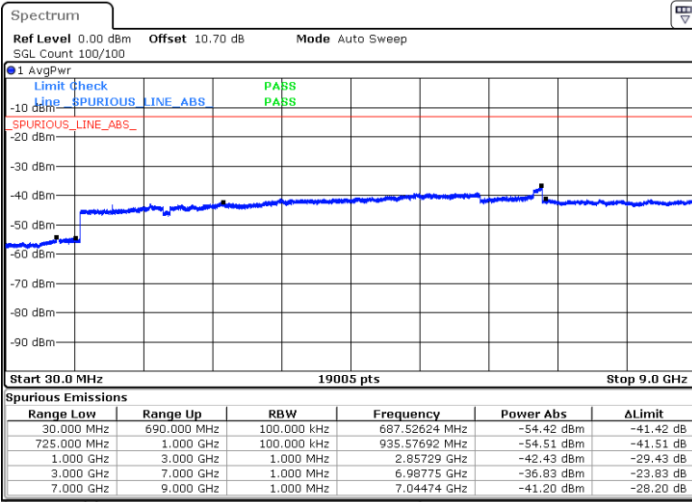
Date: 13.FEB.2020 05:10:52



LTE Band 12 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

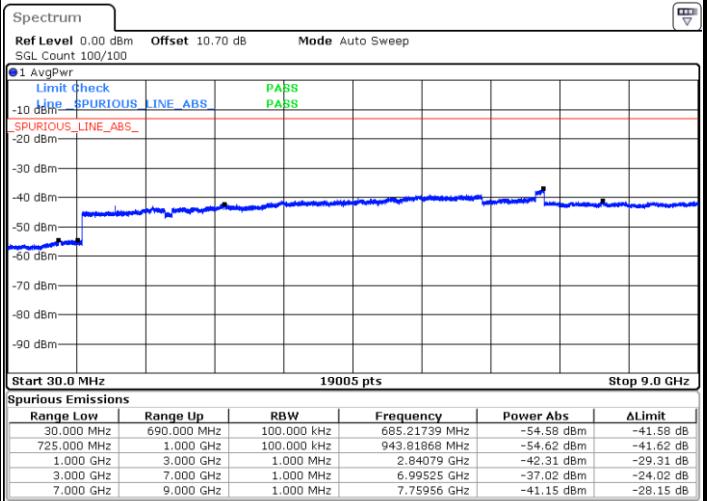
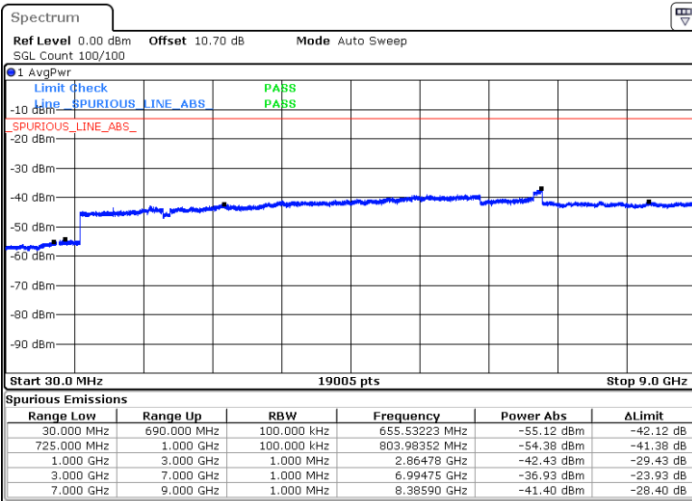


Date: 13.FEB.2020 05:14:27

Date: 13.FEB.2020 05:13:17

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 13.FEB.2020 05:32:52

Date: 13.FEB.2020 05:33:56