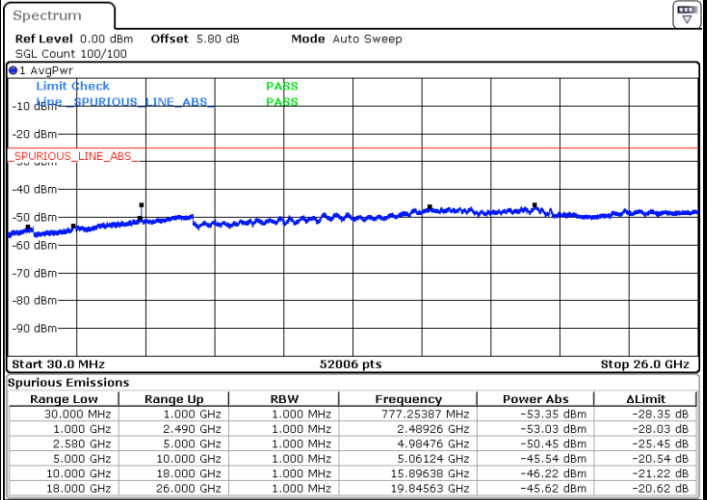
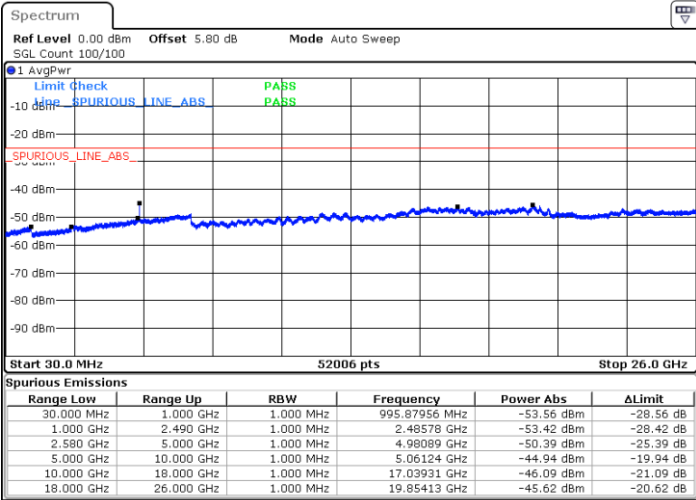




LTE Band 7 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

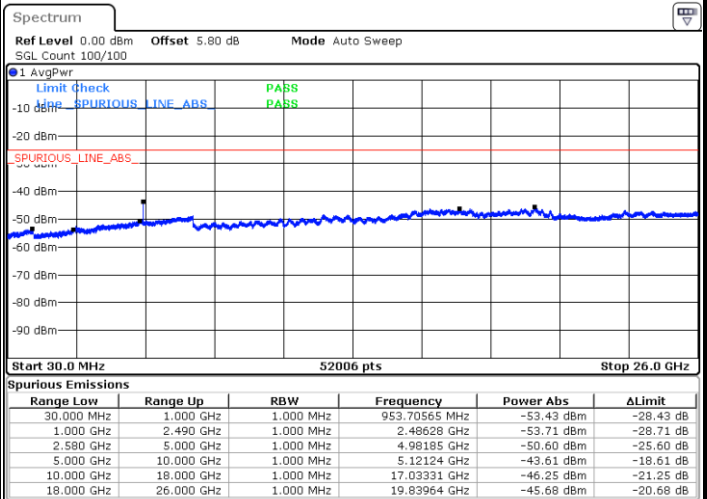
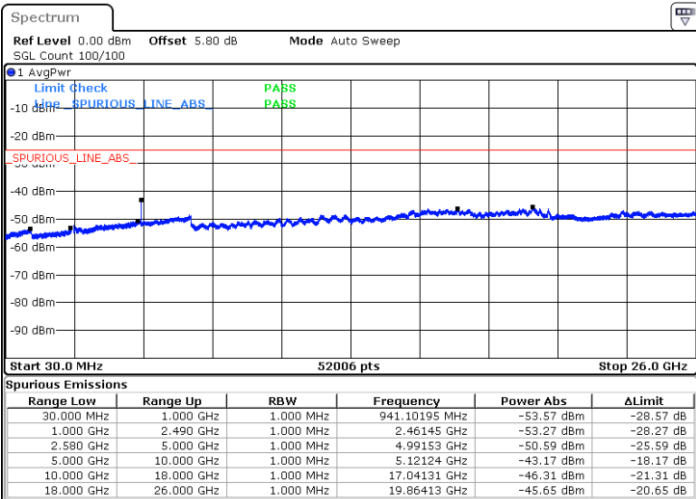


Date: 1.MAY.2020 14:59:27

Date: 1.MAY.2020 14:58:33

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 1.MAY.2020 15:00:21

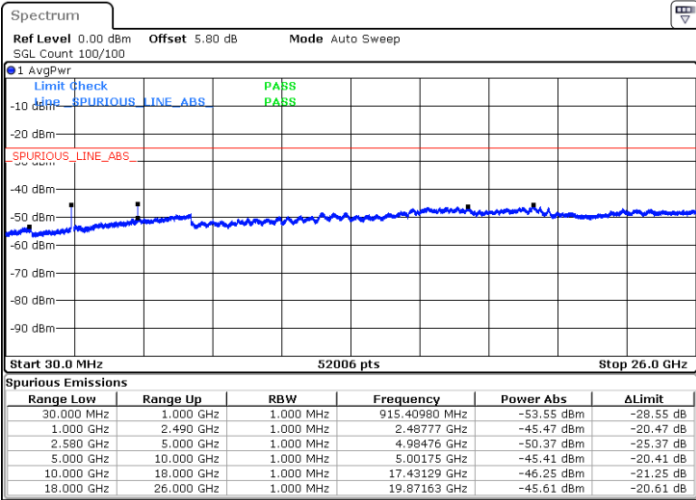
Date: 1.MAY.2020 15:01:15



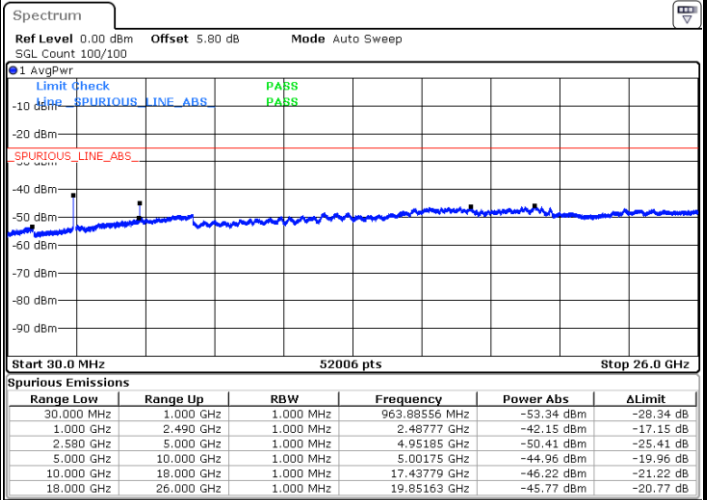
LTE Band 7 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



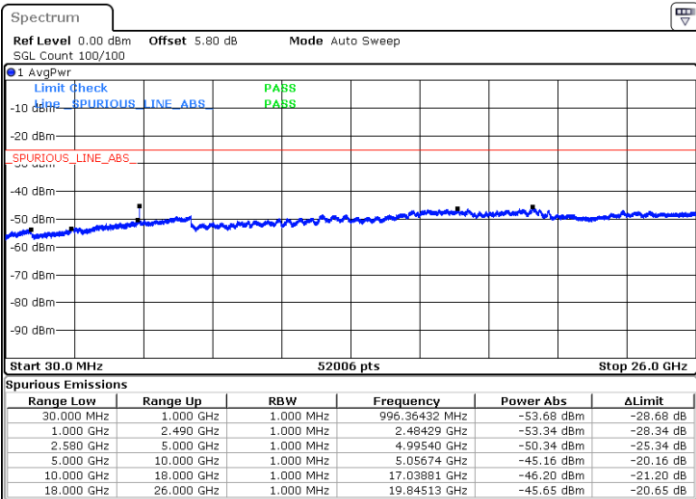
Date: 1.MAY.2020 15:13:17



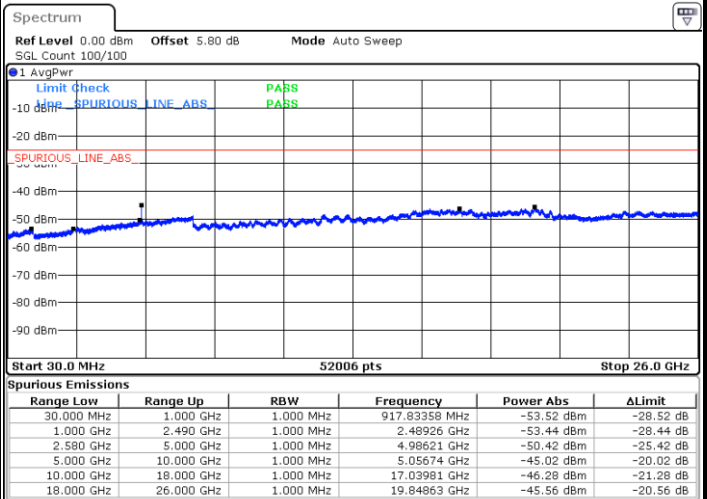
Date: 1.MAY.2020 15:14:11

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 1.MAY.2020 15:15:59

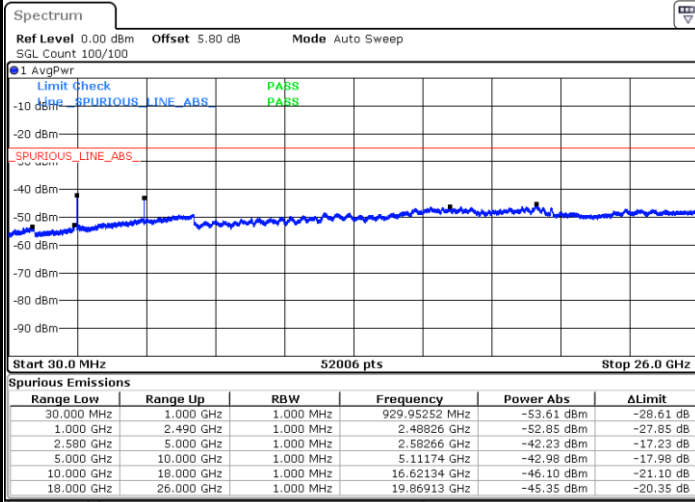


Date: 1.MAY.2020 15:15:05



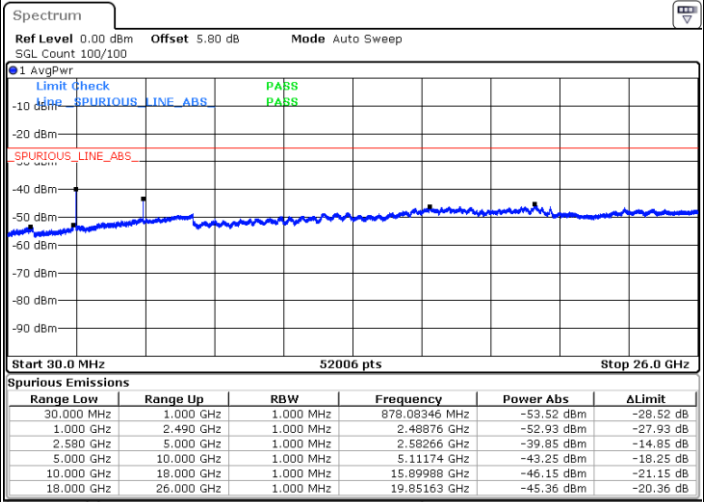
LTE Band7 / 15MHz

Highest Channel / QPSK



Date: 1.MAY.2020 15:16:53

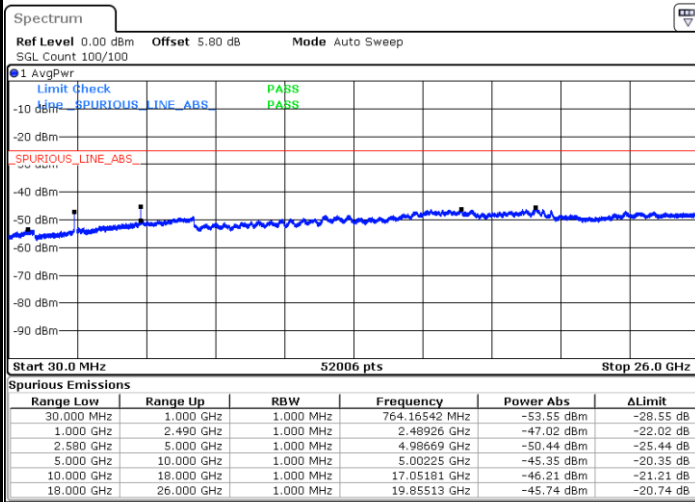
Highest Channel / 16QAM



Date: 1.MAY.2020 15:17:47

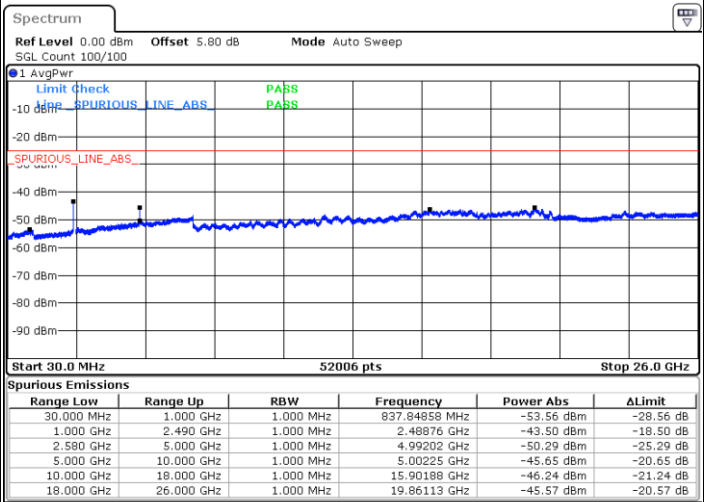
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 1.MAY.2020 15:29:48

Lowest Channel / 16QAM



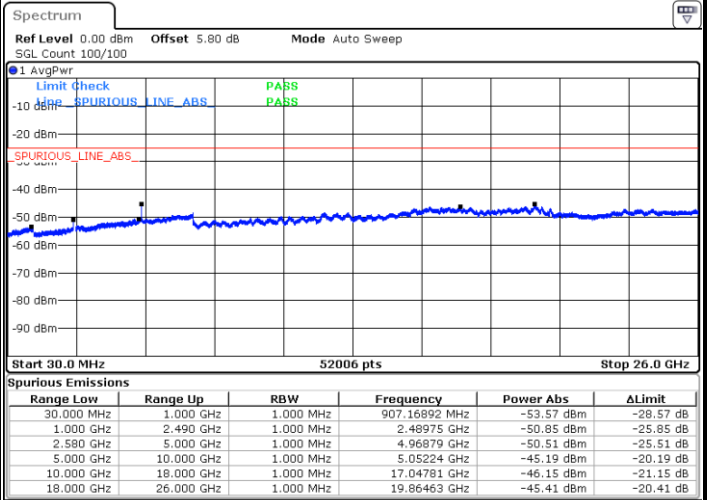
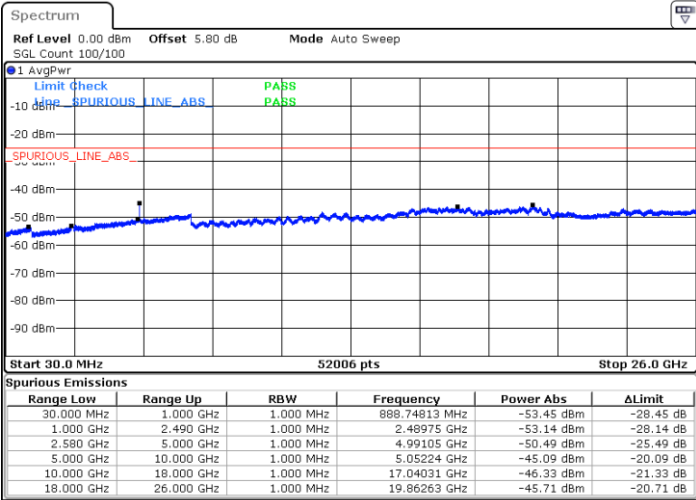
Date: 1.MAY.2020 15:30:42



LTE Band 7 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

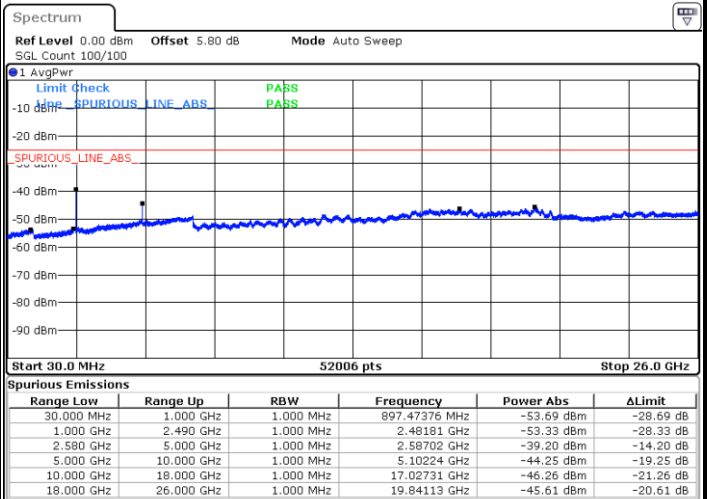
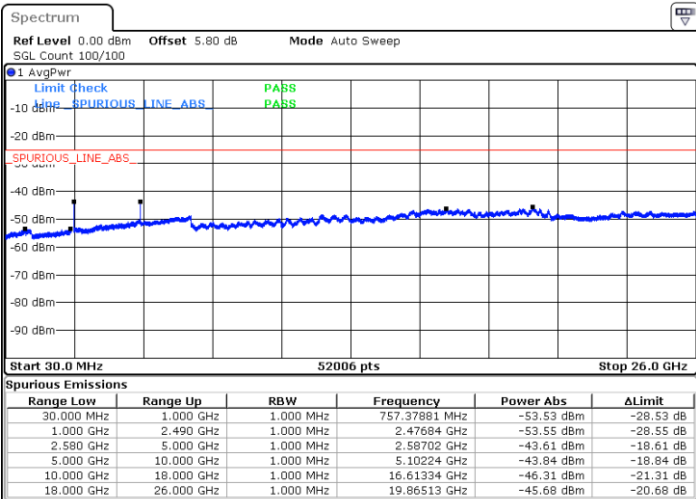


Date: 1.MAY.2020 15:32:30

Date: 1.MAY.2020 15:31:36

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 1.MAY.2020 15:33:25

Date: 1.MAY.2020 15:34:19



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	0.0006	PASS
40	Normal Voltage	0.0028	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0004	
-10	Normal Voltage	0.0026	
-20	Normal Voltage	0.0028	
-30	Normal Voltage	0.0004	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0024	
20	Battery End Point	0.0002	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 38

### Peak-to-Average Ratio

Mode	LTE Band 38 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	5.48	5.45	6.72	6.29	<b>PASS</b>
Middle CH	6.12	5.91	6.49	6.87	
Highest CH	5.22	5.48	6.81	6.90	



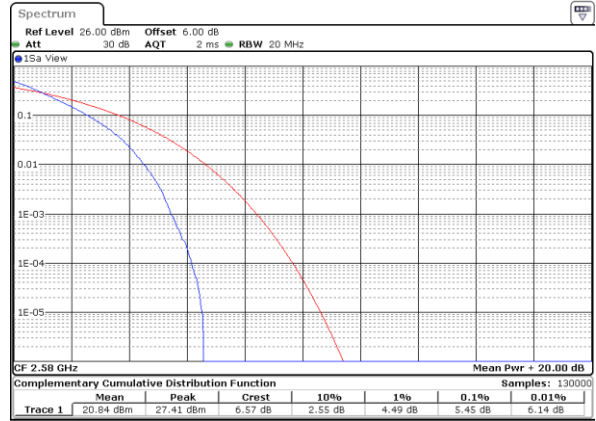
LTE Band 38 / 20MHz / QPSK

Lowest Channel / 1RB



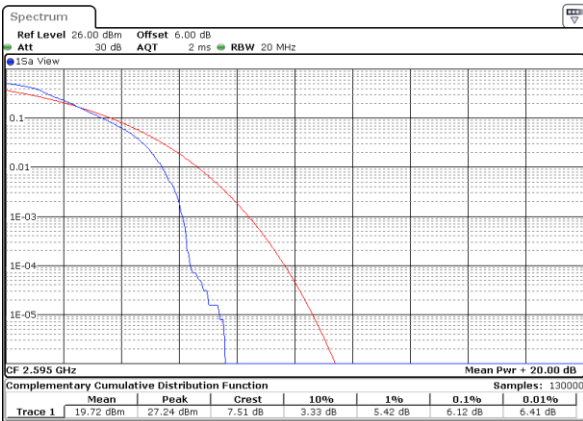
Date: 2 MAY 2020 19:43:22

Lowest Channel / Full RB



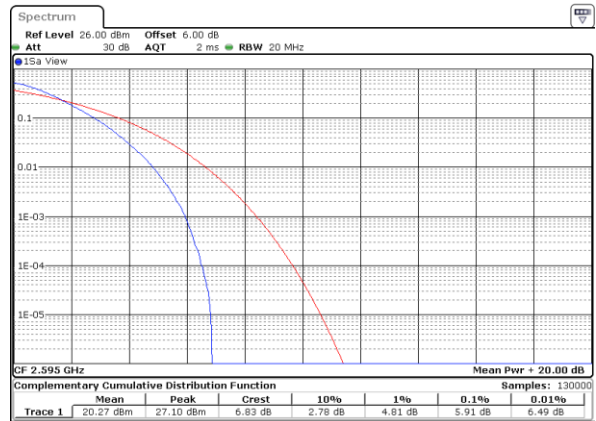
Date: 2 MAY 2020 19:40:38

Middle Channel / 1RB



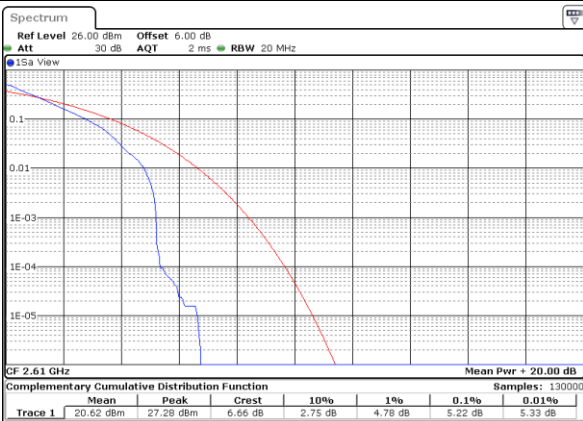
Date: 2 MAY 2020 19:43:10

Middle Channel / Full RB



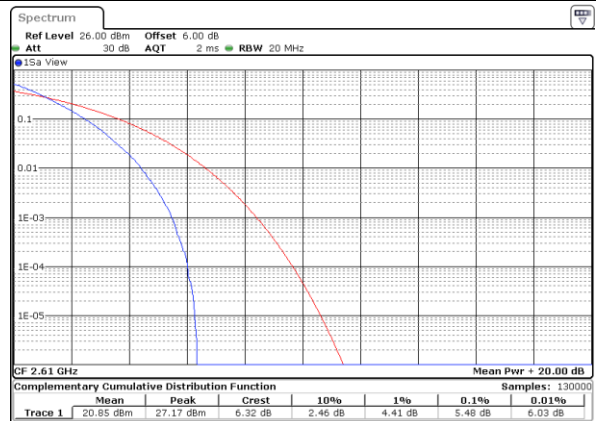
Date: 2 MAY 2020 19:40:50

Highest Channel / 1RB



Date: 2 MAY 2020 19:41:58

Highest Channel / Full RB



Date: 2 MAY 2020 19:41:29



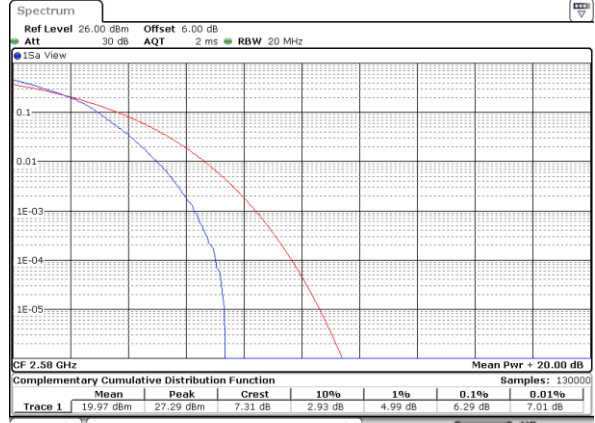
LTE Band 38 / 20MHz / 16QAM

Lowest Channel / 1RB



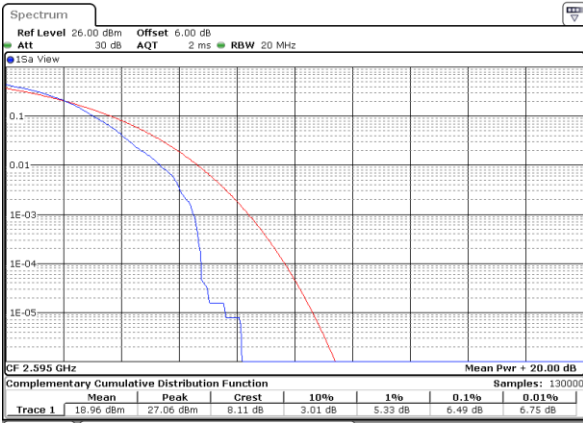
Date: 2 MAY 2020 19:43:52

Lowest Channel / Full RB



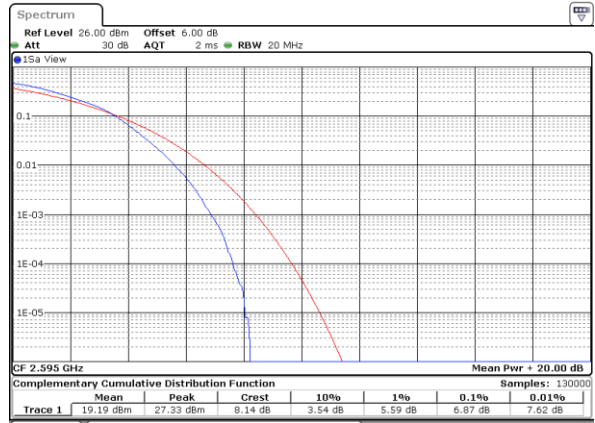
Date: 2 MAY 2020 19:40:22

Middle Channel / 1RB



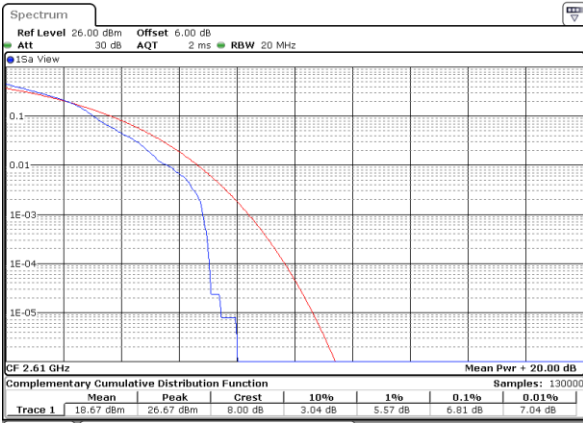
Date: 2 MAY 2020 19:43:00

Middle Channel / Full RB



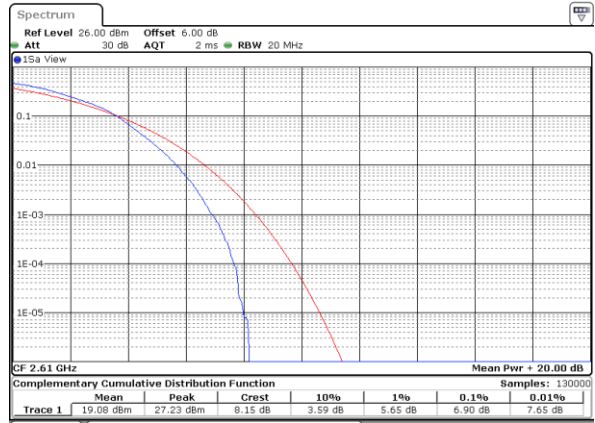
Date: 2 MAY 2020 19:41:07

Highest Channel / 1RB



Date: 2 MAY 2020 19:42:42

Highest Channel / Full RB



Date: 2 MAY 2020 19:41:18





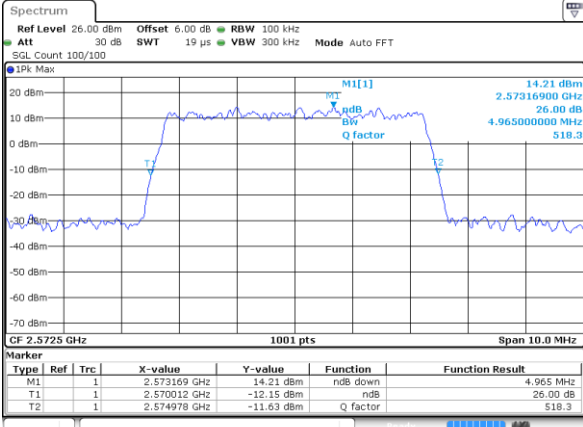
**26dB Bandwidth**

Mode	LTE Band 38 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW												
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.97	4.87	10.71	9.81	14.51	14.24	20.26	20.02
Middle CH	-	-	-	-	5.01	4.86	9.95	9.87	14.15	14.12	20.26	20.06
Highest CH	-	-	-	-	4.86	4.72	9.77	10.17	14.39	14.12	20.22	20.54



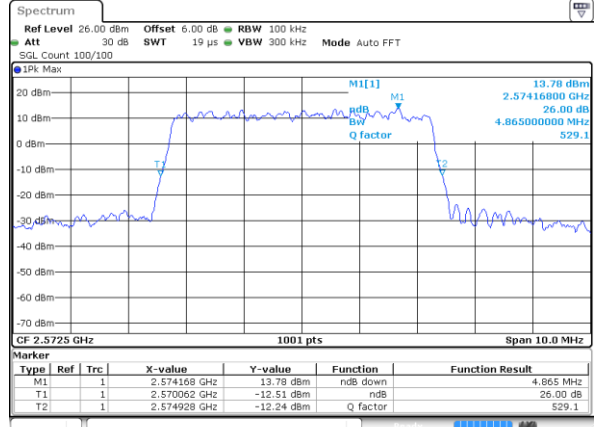
LTE Band 38

Lowest Channel / 5MHz / QPSK



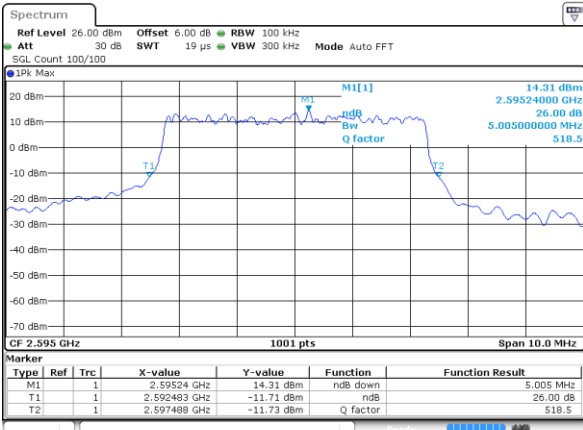
Date: 2 MAY 2020 18:30:46

Lowest Channel / 5MHz / 16QAM



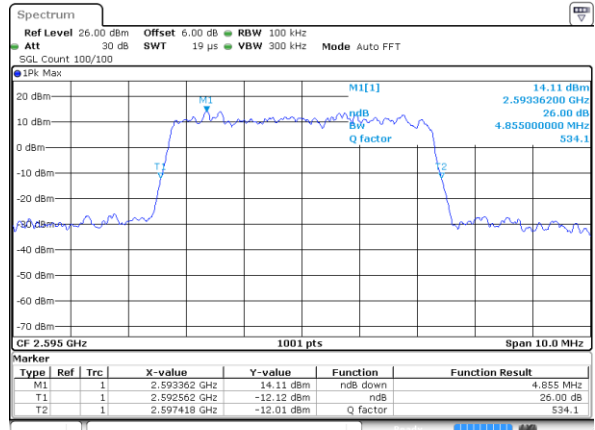
Date: 2 MAY 2020 18:30:56

Middle Channel / 5MHz / QPSK



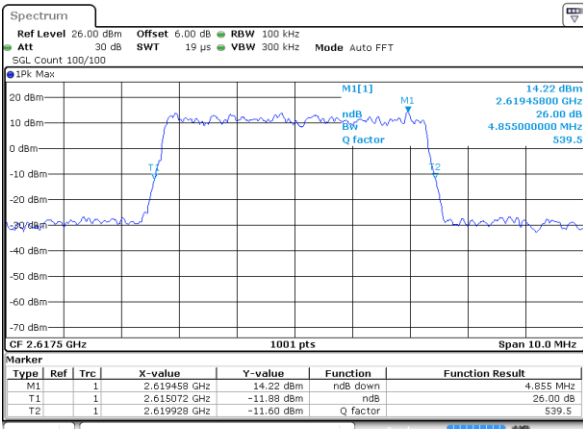
Date: 2 MAY 2020 18:31:27

Middle Channel / 5MHz / 16QAM



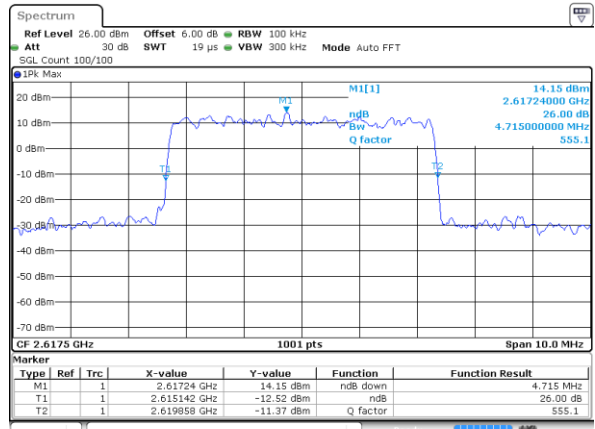
Date: 2 MAY 2020 18:31:37

Highest Channel / 5MHz / QPSK



Date: 2 MAY 2020 18:32:07

Highest Channel / 5MHz / 16QAM

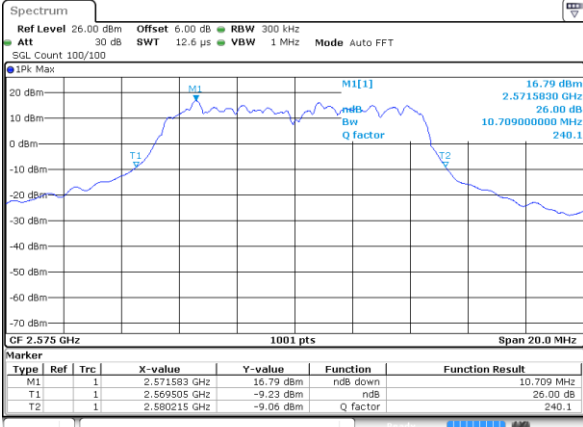


Date: 2 MAY 2020 18:32:17



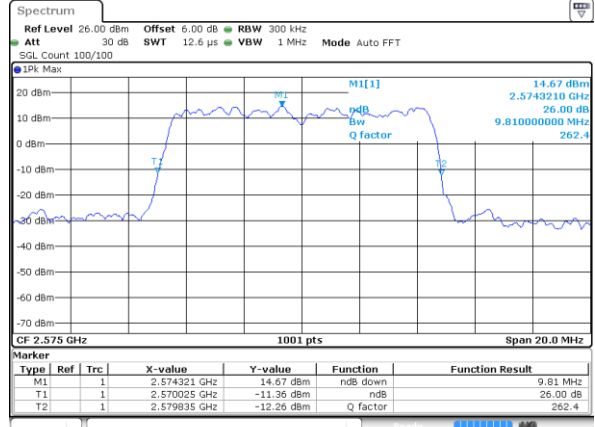
LTE Band 38

Lowest Channel / 10MHz / QPSK



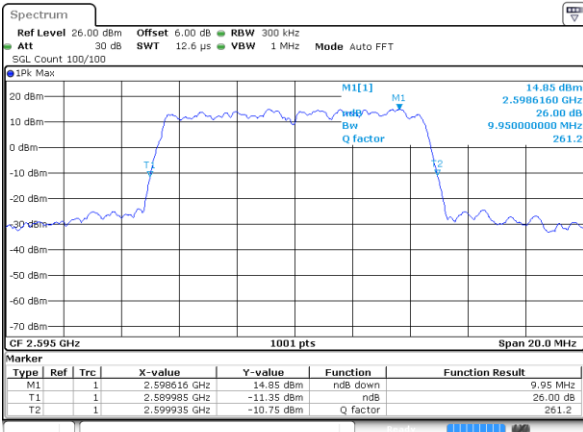
Date: 2 MAY 2020 18:32:47

Lowest Channel / 10MHz / 16QAM



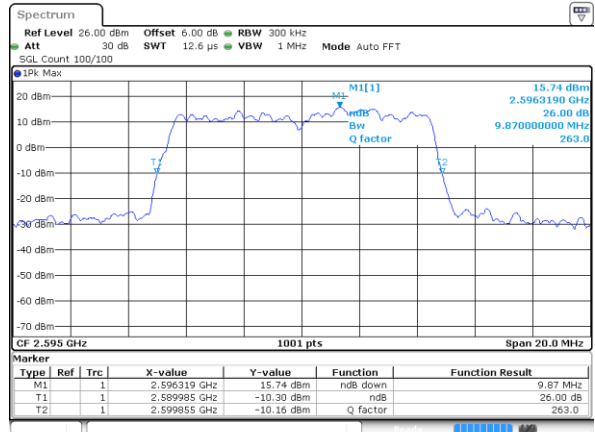
Date: 2 MAY 2020 18:32:58

Middle Channel / 10MHz / QPSK



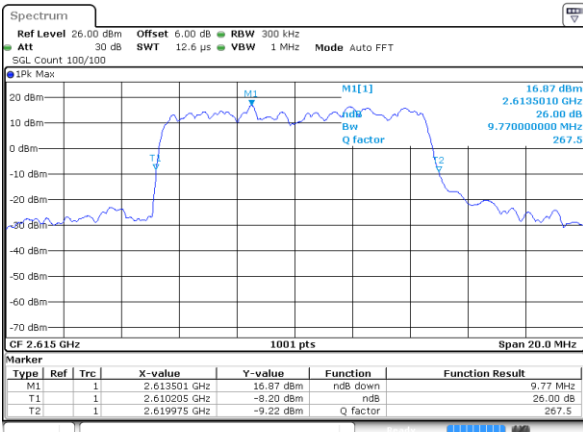
Date: 2 MAY 2020 18:33:28

Middle Channel / 10MHz / 16QAM



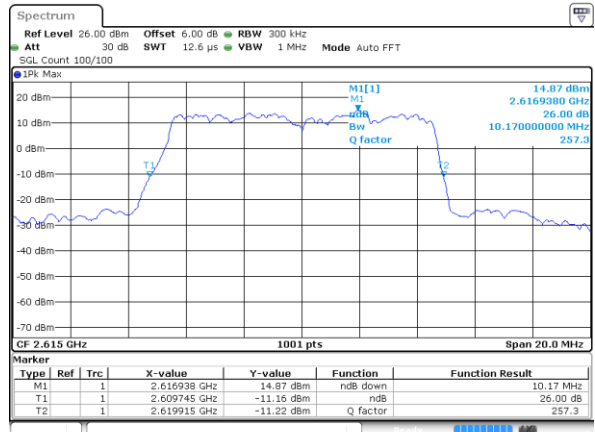
Date: 2 MAY 2020 18:33:38

Highest Channel / 10MHz / QPSK



Date: 2 MAY 2020 18:34:08

Highest Channel / 10MHz / 16QAM

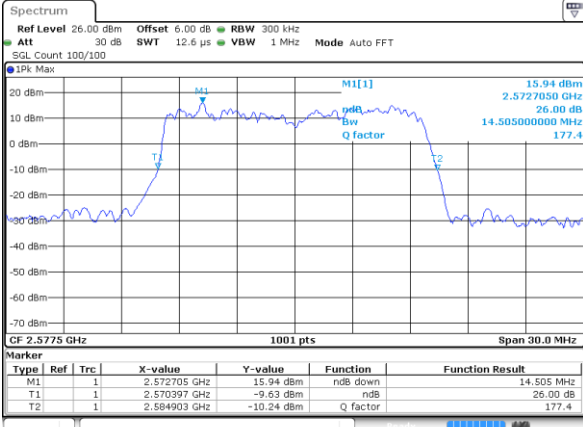


Date: 2 MAY 2020 18:34:18



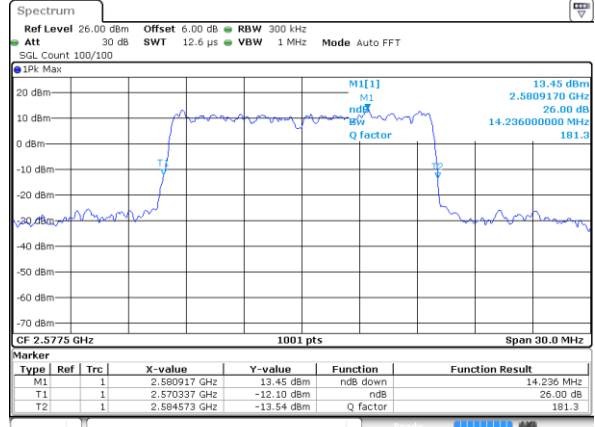
LTE Band 38

Lowest Channel / 15MHz / QPSK



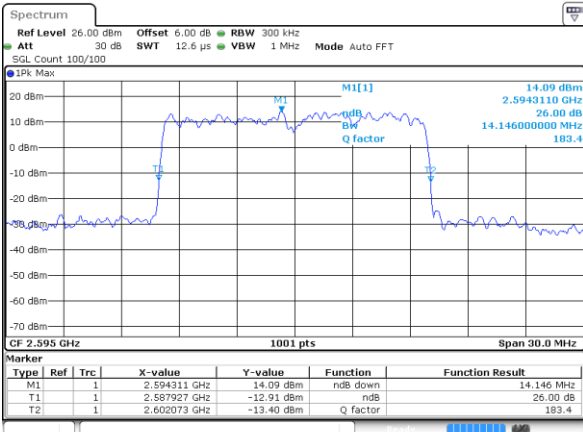
Date: 2 MAY 2020 18:34:48

Lowest Channel / 15MHz / 16QAM



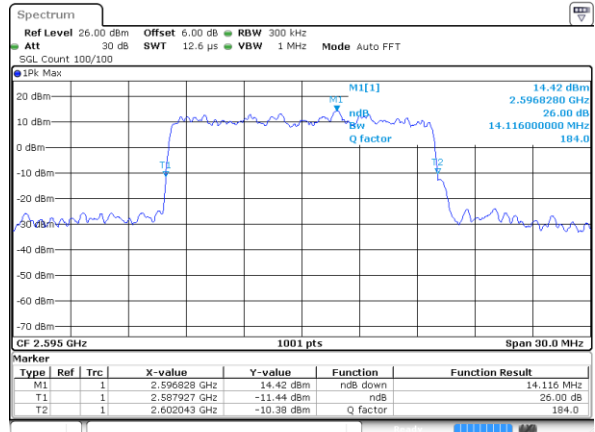
Date: 2 MAY 2020 18:34:58

Middle Channel / 15MHz / QPSK



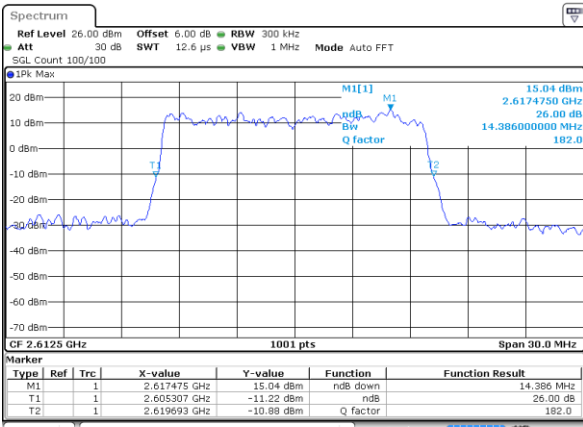
Date: 2 MAY 2020 18:35:28

Middle Channel / 15MHz / 16QAM



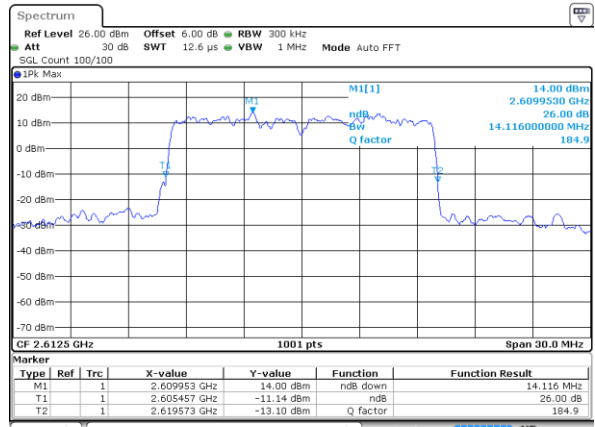
Date: 2 MAY 2020 18:35:38

Highest Channel / 15MHz / QPSK



Date: 2 MAY 2020 18:36:09

Highest Channel / 15MHz / 16QAM

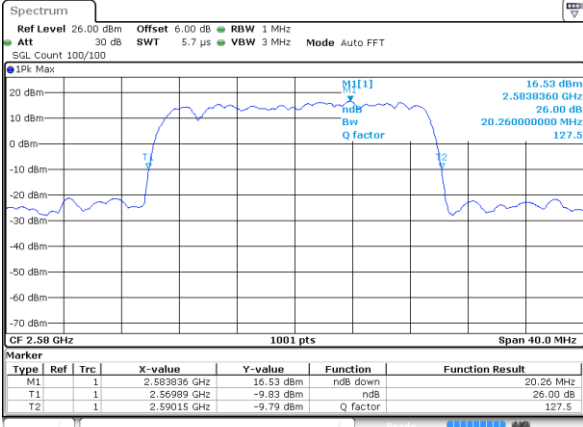


Date: 2 MAY 2020 18:36:19



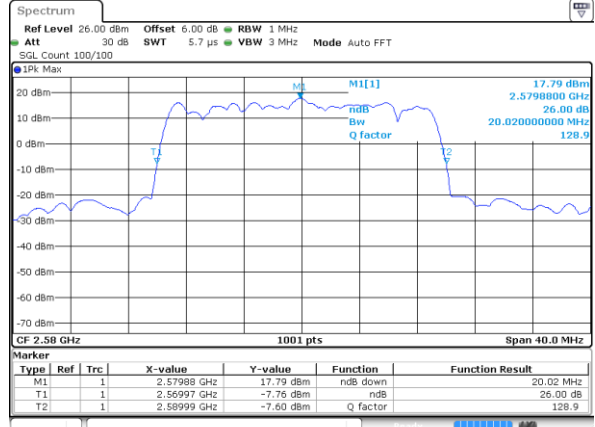
LTE Band 38

Lowest Channel / 20MHz / QPSK



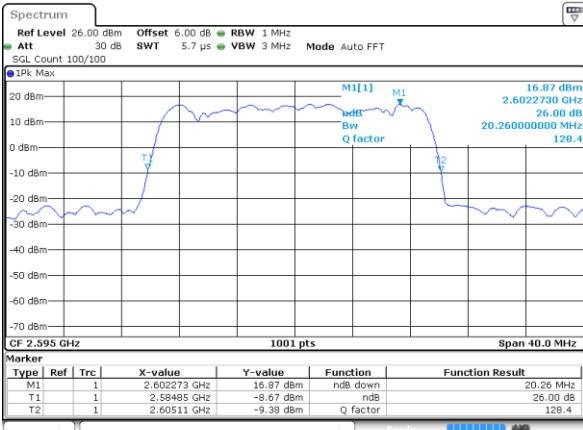
Date: 2 MAY 2020 18:36:49

Lowest Channel / 20MHz / 16QAM



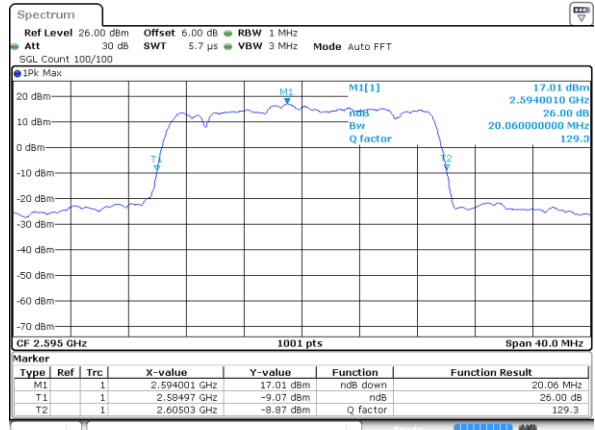
Date: 2 MAY 2020 18:36:59

Middle Channel / 20MHz / QPSK



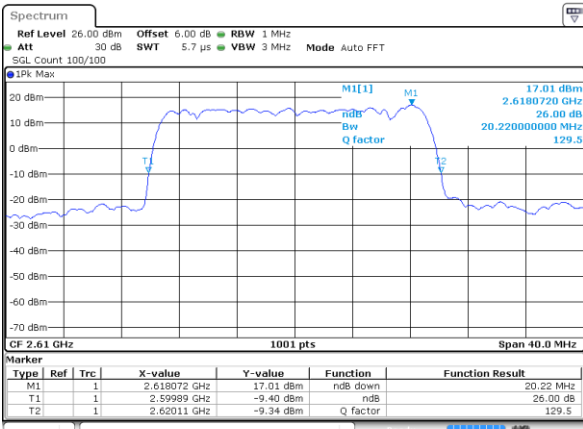
Date: 2 MAY 2020 18:37:29

Middle Channel / 20MHz / 16QAM



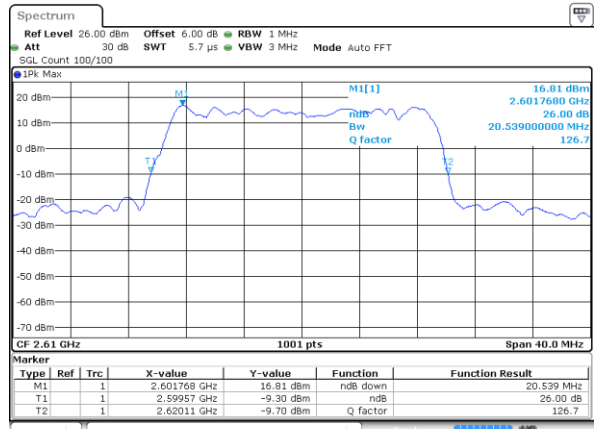
Date: 2 MAY 2020 18:37:39

Highest Channel / 20MHz / QPSK



Date: 2 MAY 2020 18:38:09

Highest Channel / 20MHz / 16QAM



Date: 2 MAY 2020 18:38:19



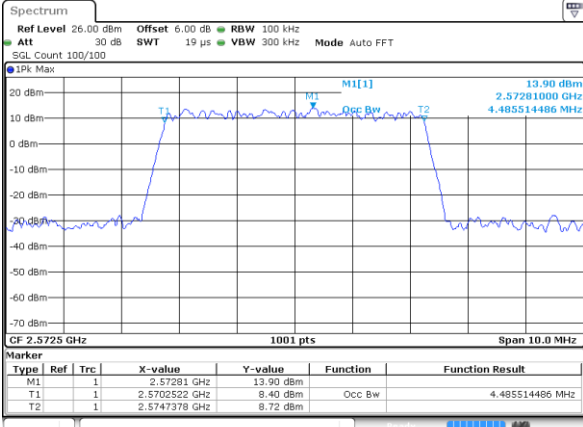
### Occupied Bandwidth

Mode	LTE Band 38 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.49	4.50	9.05	9.03	13.34	13.46	18.34	18.38
Middle CH	-	-	-	-	4.49	4.50	9.01	9.01	13.40	13.43	18.30	18.26
Highest CH	-	-	-	-	4.46	4.46	9.03	9.07	13.37	13.46	18.38	18.34



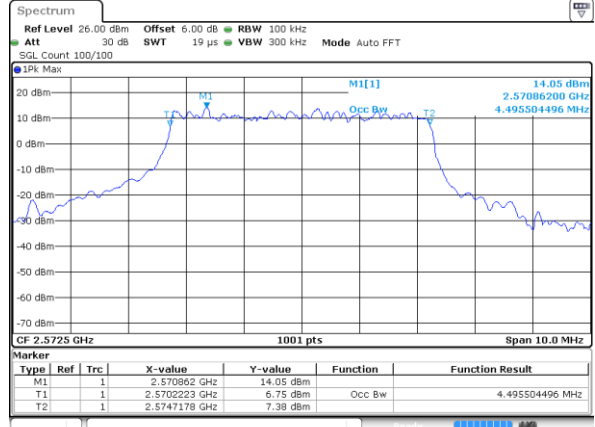
LTE Band 38

Lowest Channel / 5MHz / QPSK



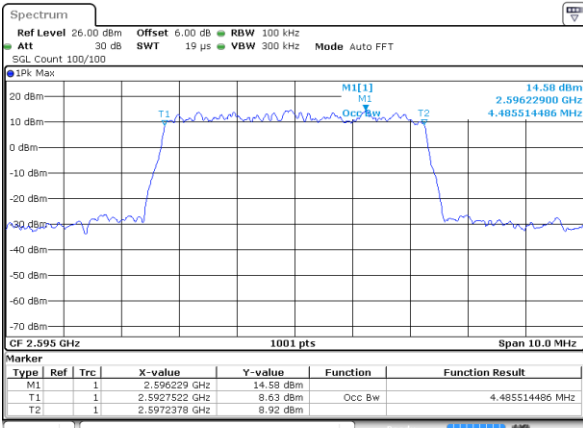
Date: 2 MAY 2020 18:30:26

Lowest Channel / 5MHz / 16QAM



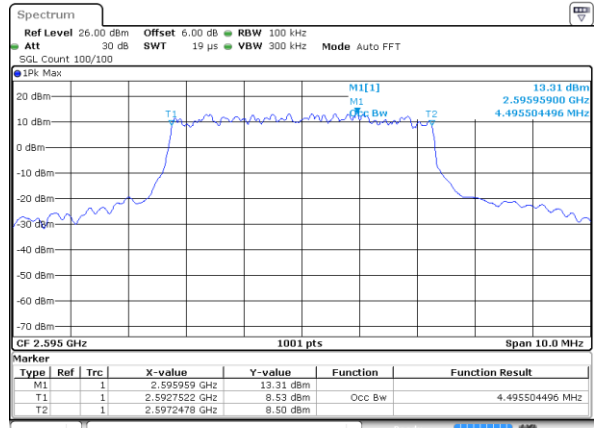
Date: 2 MAY 2020 18:30:36

Middle Channel / 5MHz / QPSK



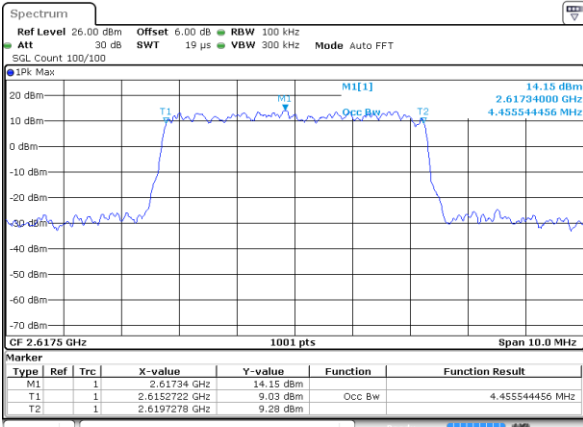
Date: 2 MAY 2020 18:31:07

Middle Channel / 5MHz / 16QAM



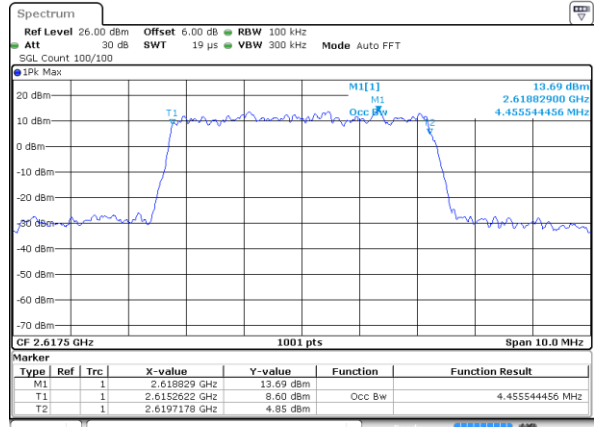
Date: 2 MAY 2020 18:31:17

Highest Channel / 5MHz / QPSK



Date: 2 MAY 2020 18:31:47

Highest Channel / 5MHz / 16QAM

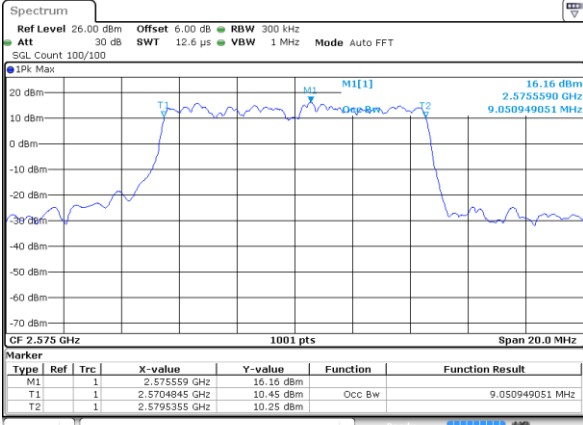


Date: 2 MAY 2020 18:31:57



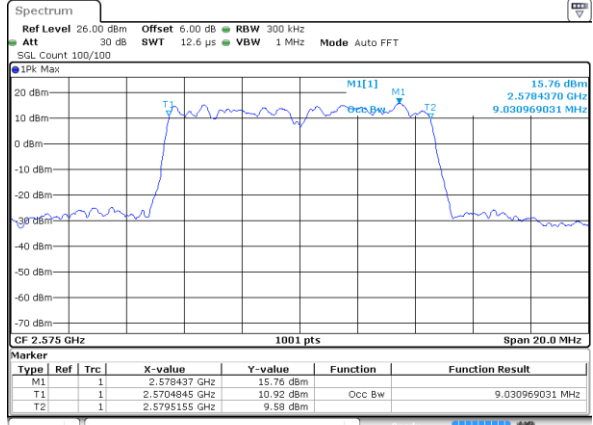
LTE Band 38

Lowest Channel / 10MHz / QPSK



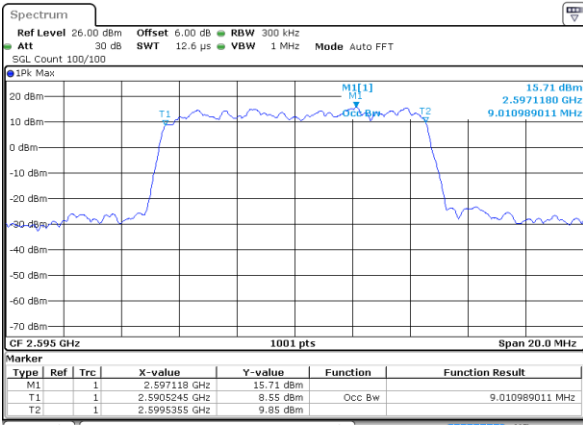
Date: 2 MAY 2020 18:32:27

Lowest Channel / 10MHz / 16QAM



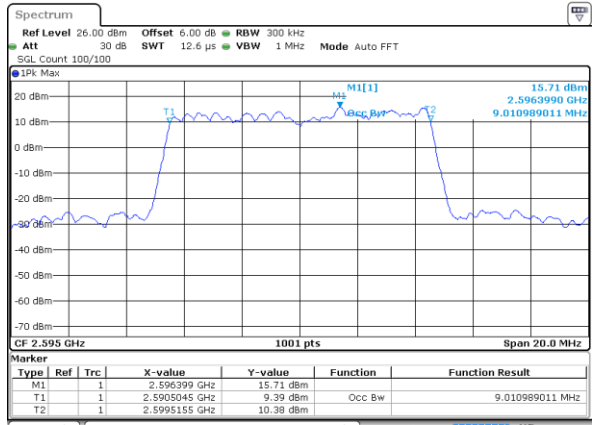
Date: 2 MAY 2020 18:32:37

Middle Channel / 10MHz / QPSK



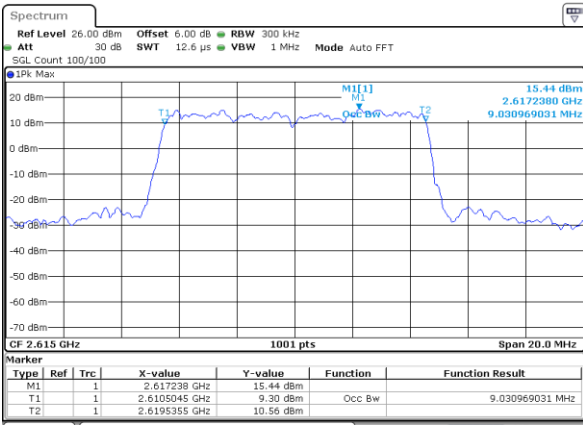
Date: 2 MAY 2020 18:33:08

Middle Channel / 10MHz / 16QAM



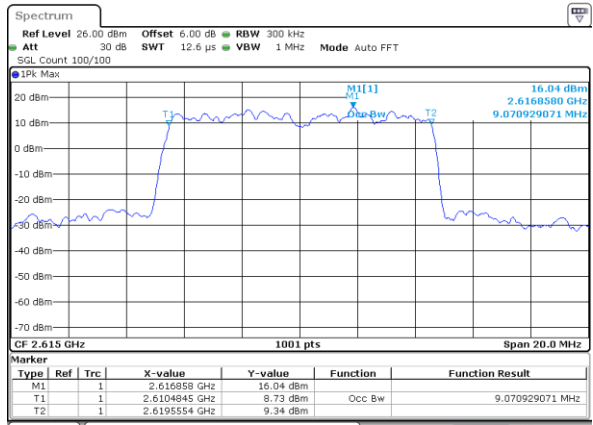
Date: 2 MAY 2020 18:33:18

Highest Channel / 10MHz / QPSK



Date: 2 MAY 2020 18:33:48

Highest Channel / 10MHz / 16QAM



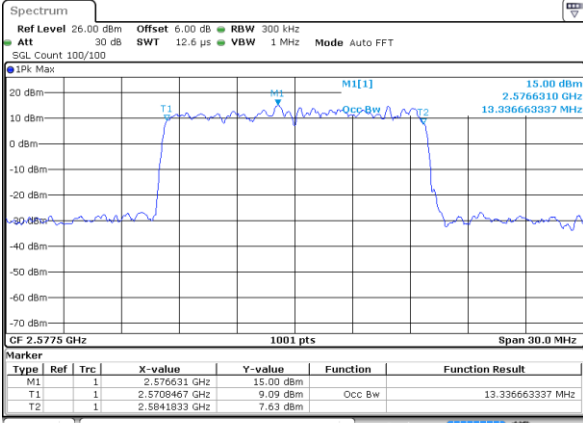
Date: 2 MAY 2020 18:33:58





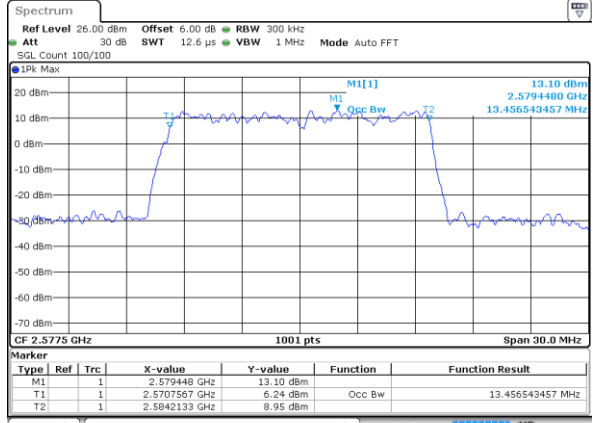
LTE Band 38

Lowest Channel / 15MHz / QPSK



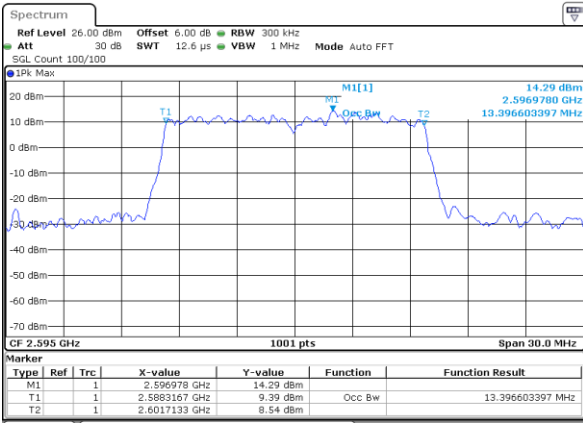
Date: 2 MAY 2020 18:34:28

Lowest Channel / 15MHz / 16QAM



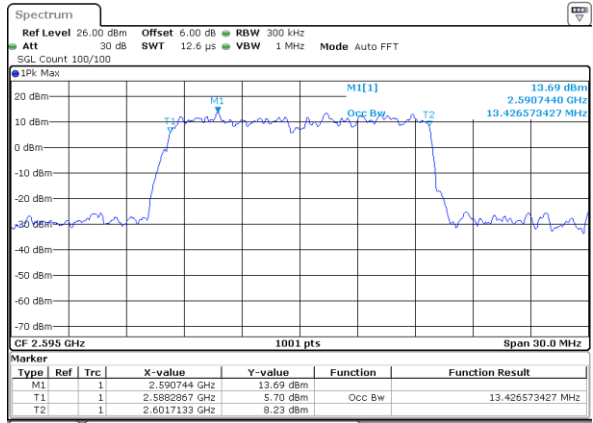
Date: 2 MAY 2020 18:34:38

Middle Channel / 15MHz / QPSK



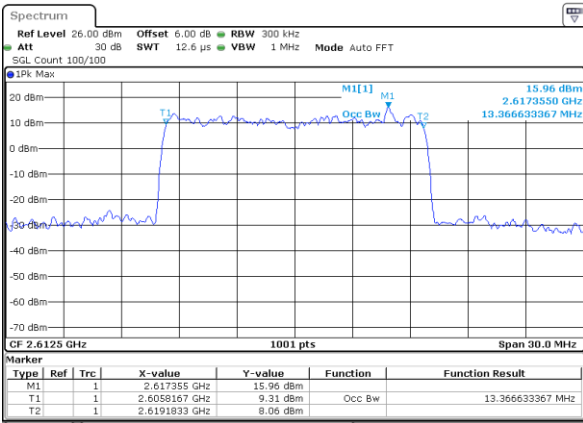
Date: 2 MAY 2020 18:35:08

Middle Channel / 15MHz / 16QAM



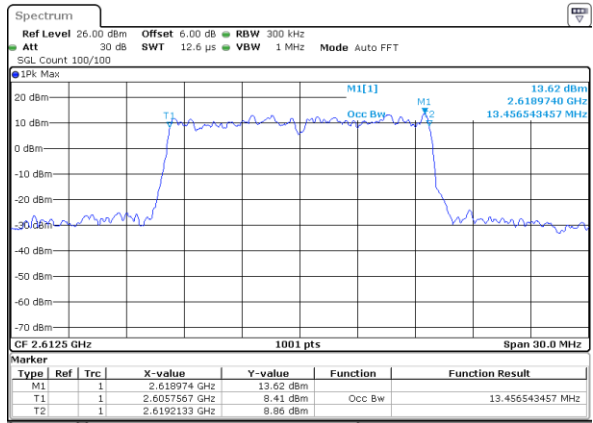
Date: 2 MAY 2020 18:35:18

Highest Channel / 15MHz / QPSK



Date: 2 MAY 2020 18:35:49

Highest Channel / 15MHz / 16QAM

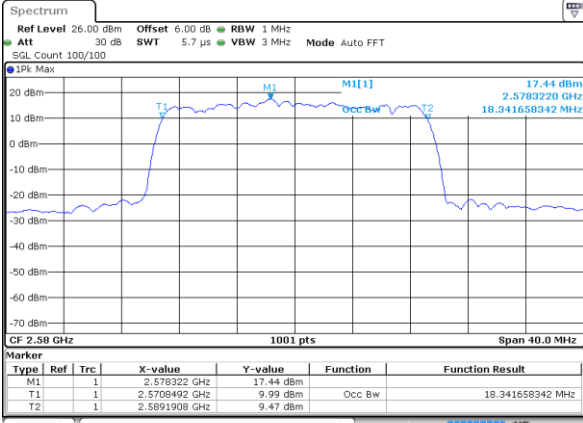


Date: 2 MAY 2020 18:35:59



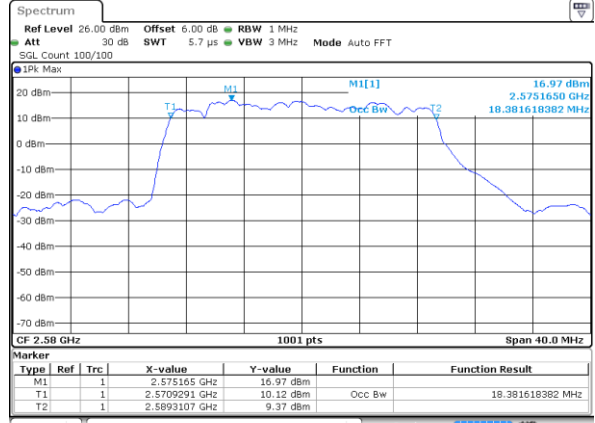
LTE Band 38

Lowest Channel / 20MHz / QPSK



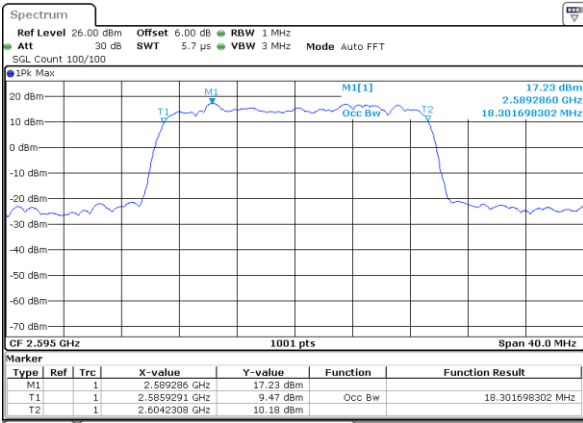
Date: 2 MAY 2020 18:36:29

Lowest Channel / 20MHz / 16QAM



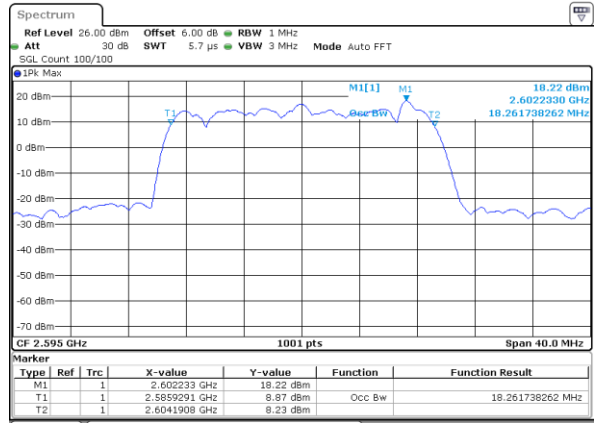
Date: 2 MAY 2020 18:36:39

Middle Channel / 20MHz / QPSK



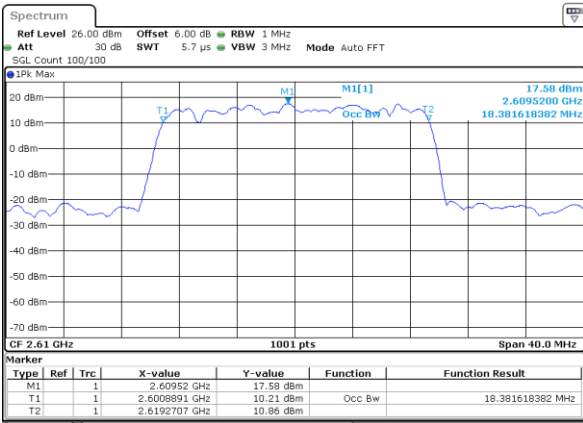
Date: 2 MAY 2020 18:37:09

Middle Channel / 20MHz / 16QAM



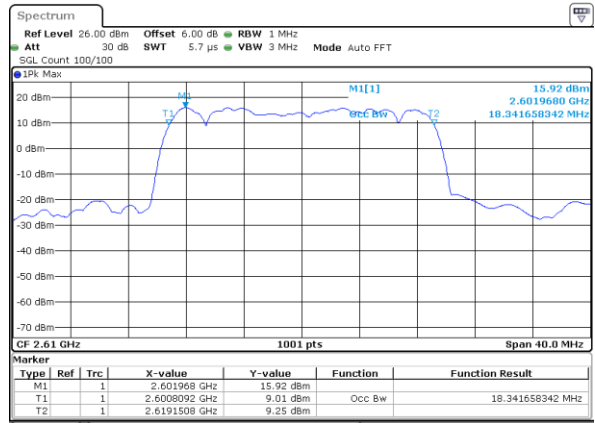
Date: 2 MAY 2020 18:37:19

Highest Channel / 20MHz / QPSK



Date: 2 MAY 2020 18:37:49

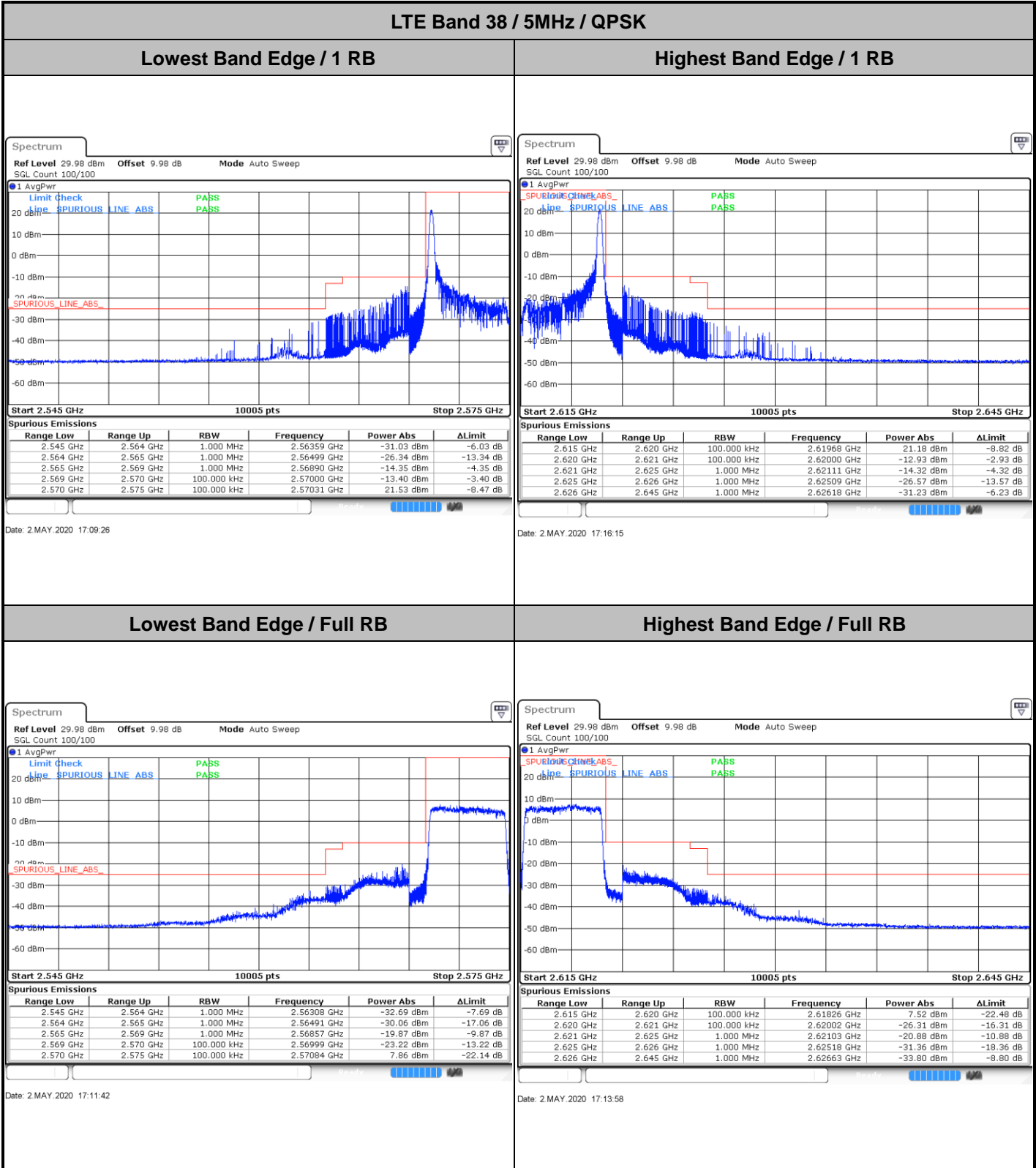
Highest Channel / 20MHz / 16QAM



Date: 2 MAY 2020 18:37:59



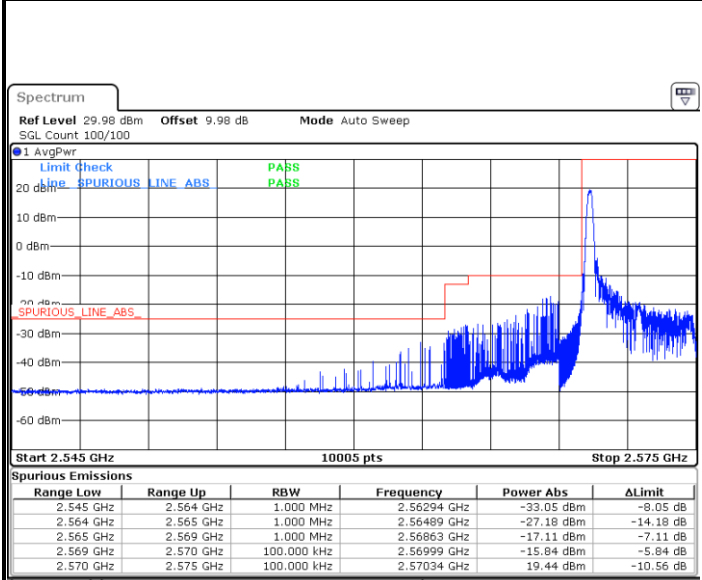
# Conducted Band Edge





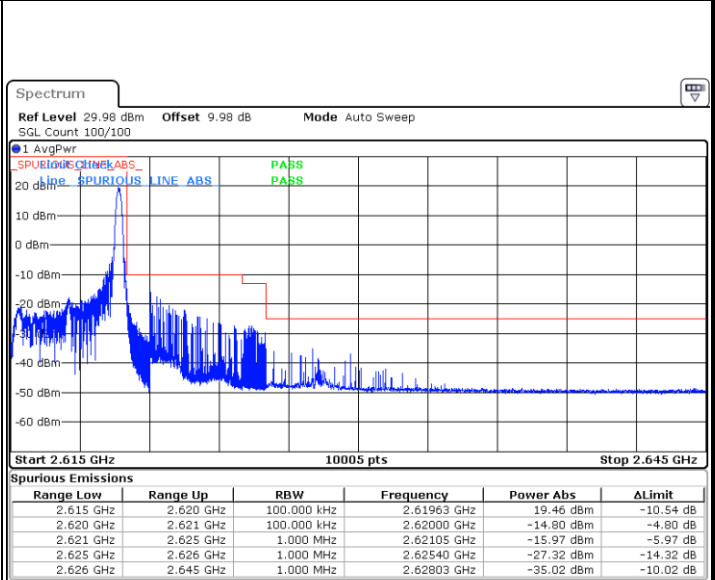
LTE Band 38 / 5MHz / 16QAM

Lowest Band Edge / 1RB



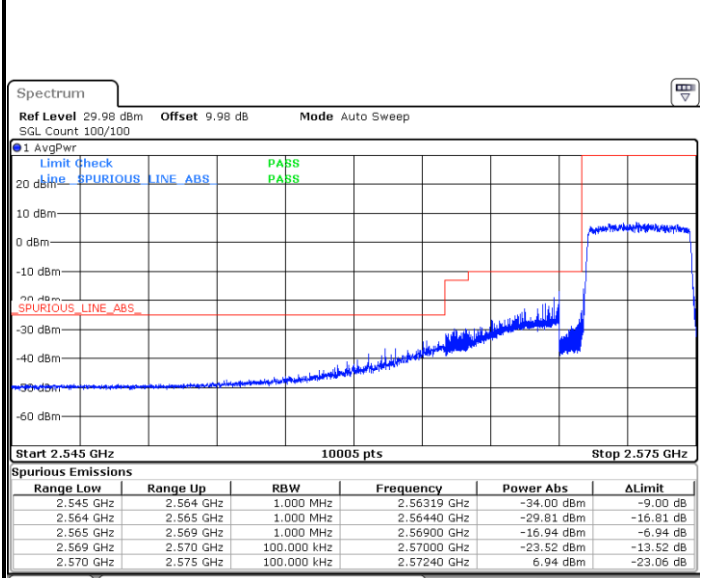
Date: 2 MAY 2020 17:10:34

Highest Band Edge / 1 RB



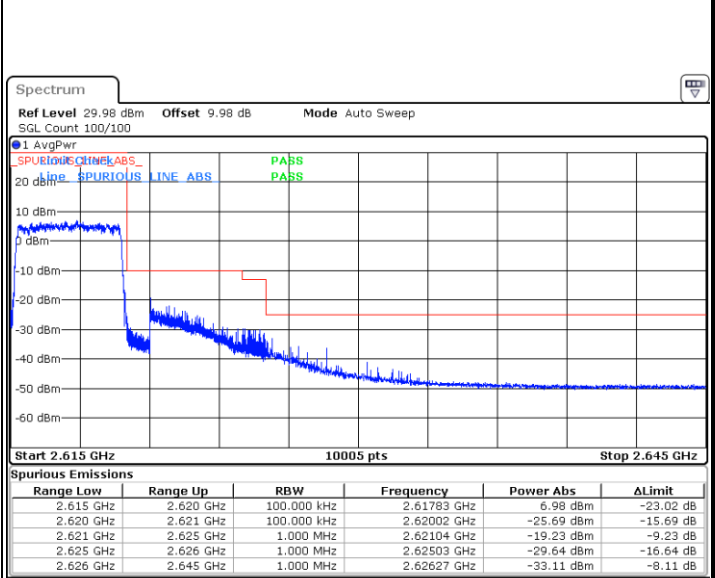
Date: 2 MAY 2020 17:17:23

Lowest Band Edge / Full RB



Date: 2 MAY 2020 17:12:50

Highest Band Edge / Full RB

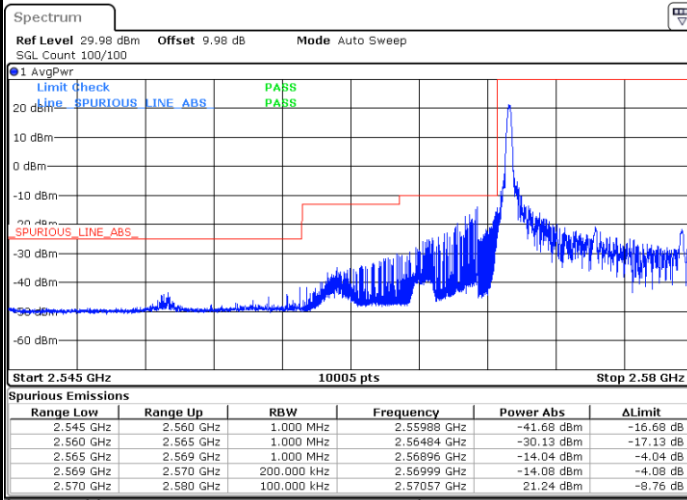


Date: 2 MAY 2020 17:15:06



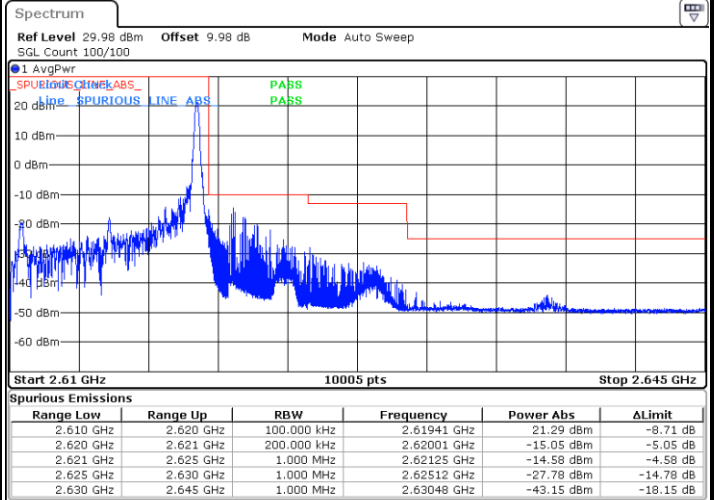
LTE Band 38 / 10MHz / QPSK

Lowest Band Edge / 1 RB



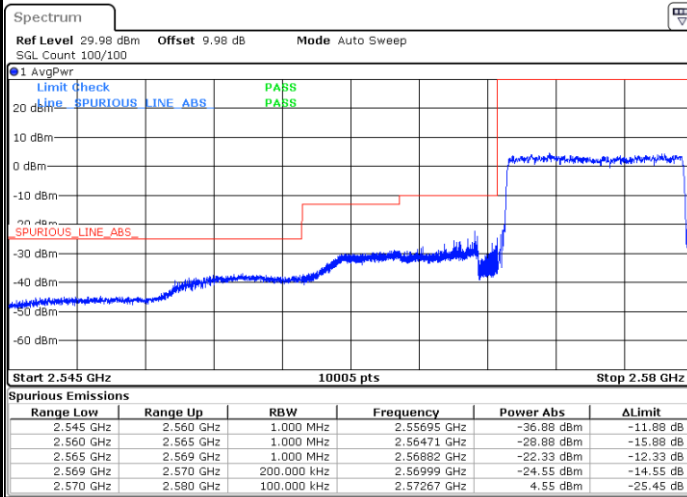
Date: 2 MAY 2020 17:18:31

Highest Band Edge / 1 RB



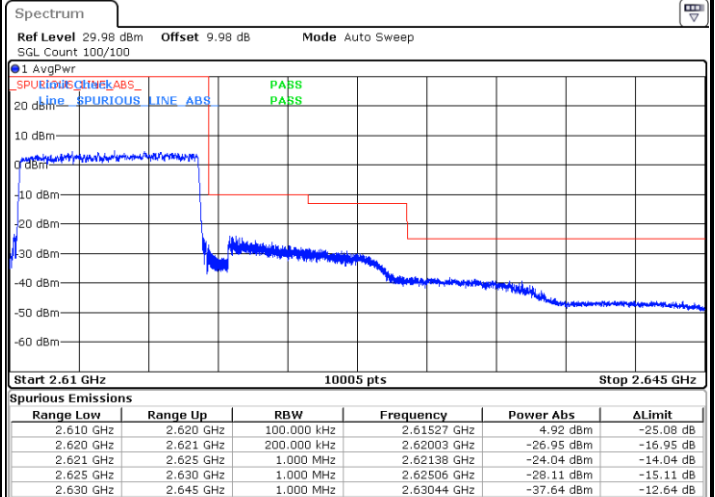
Date: 2 MAY 2020 17:25:19

Lowest Band Edge / Full RB



Date: 2 MAY 2020 17:20:47

Highest Band Edge / Full RB

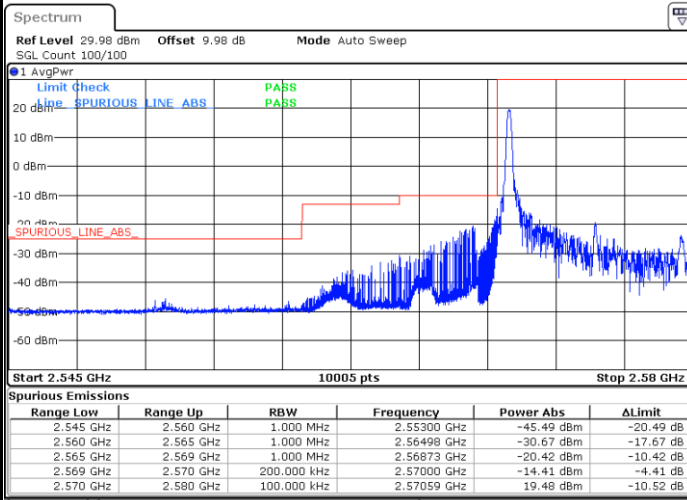


Date: 2 MAY 2020 17:23:03



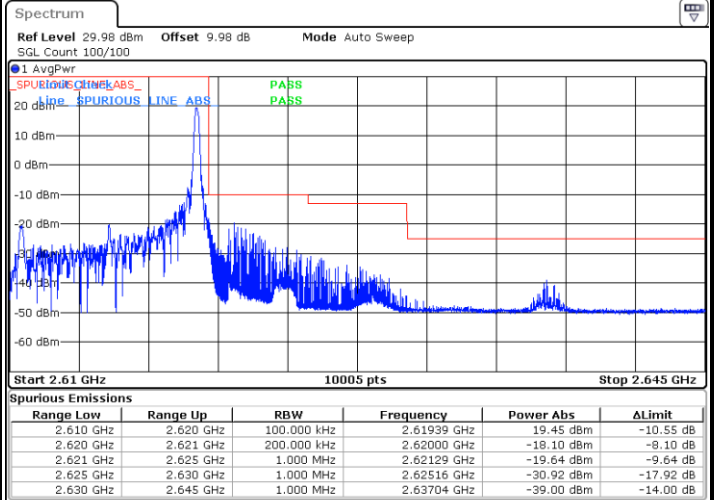
LTE Band 38 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



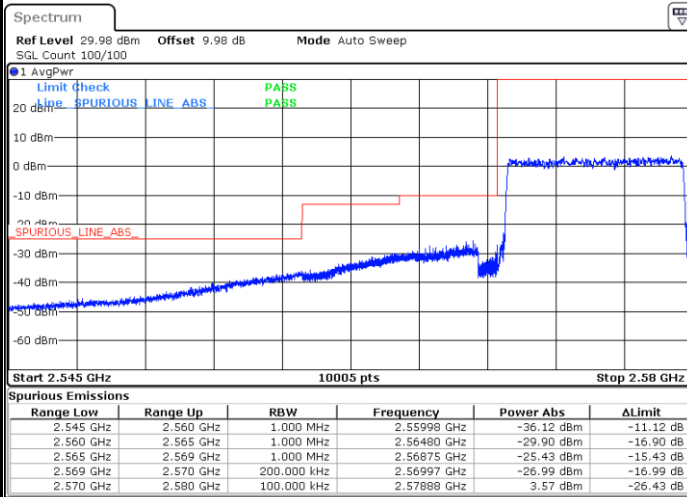
Date: 2 MAY 2020 17:19:39

Highest Band Edge / 1 RB



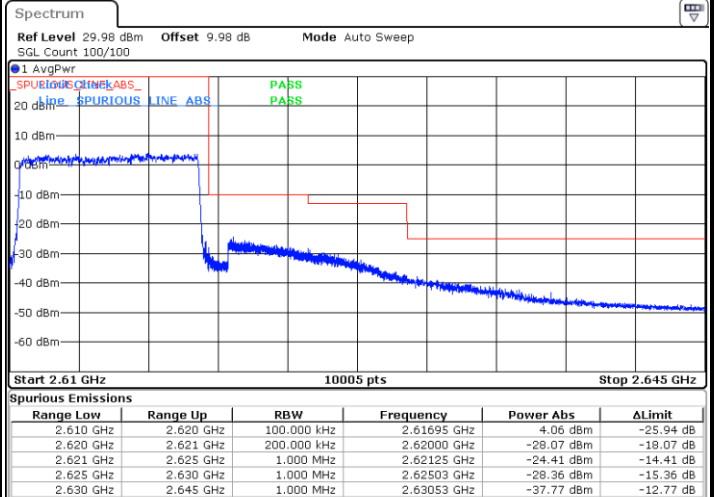
Date: 2 MAY 2020 17:26:27

Lowest Band Edge / Full RB



Date: 2 MAY 2020 17:21:55

Highest Band Edge / Full RB

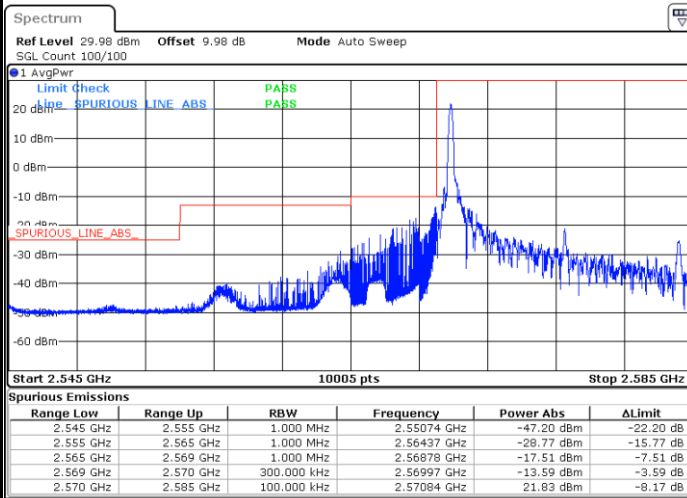


Date: 2 MAY 2020 17:24:11



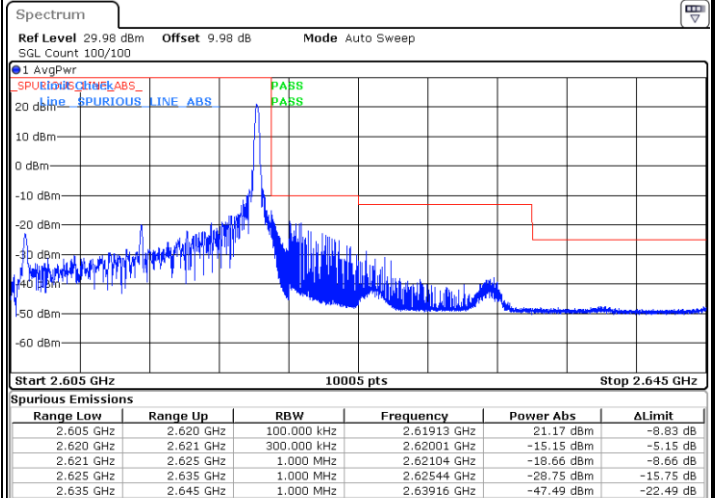
LTE Band 38 / 15MHz / QPSK

Lowest Band Edge / 1 RB



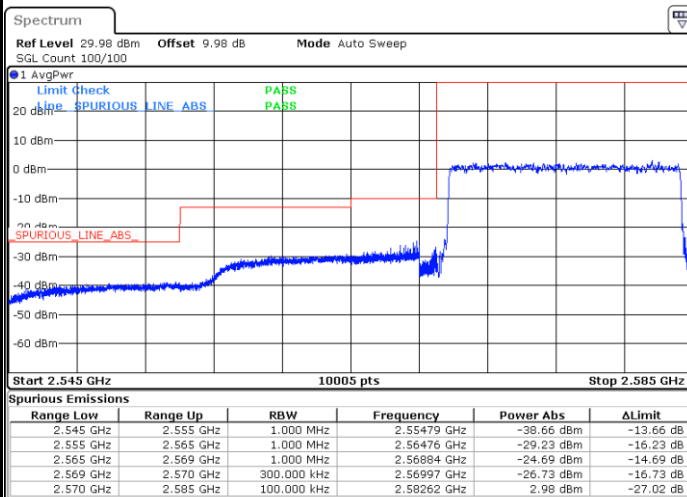
Date: 2 MAY 2020 17:27:35

Highest Band Edge / 1 RB



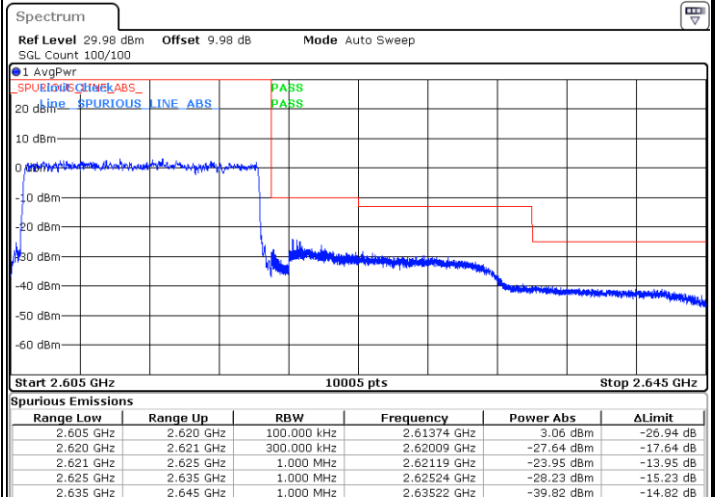
Date: 2 MAY 2020 17:34:23

Lowest Band Edge / Full RB



Date: 2 MAY 2020 17:29:51

Highest Band Edge / Full RB



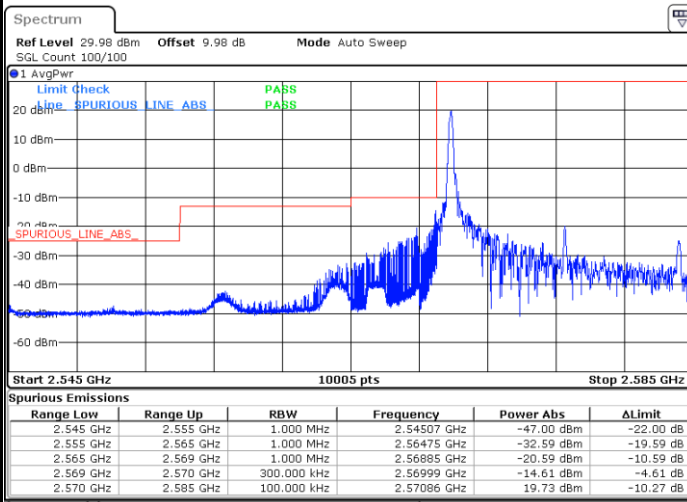
Date: 2 MAY 2020 17:32:07





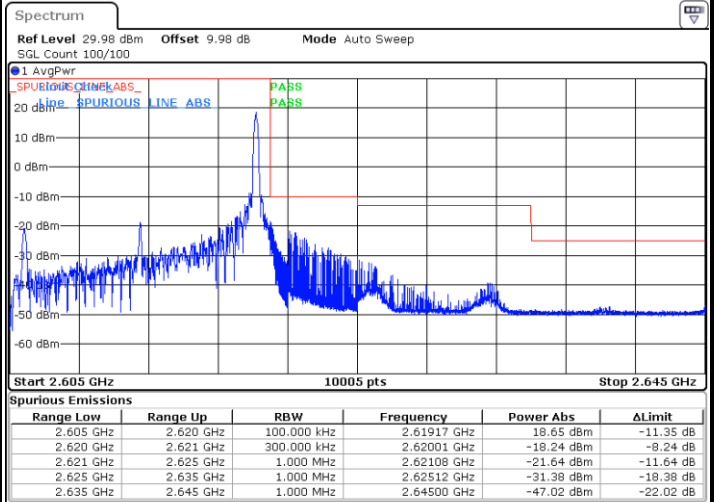
LTE Band 38 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



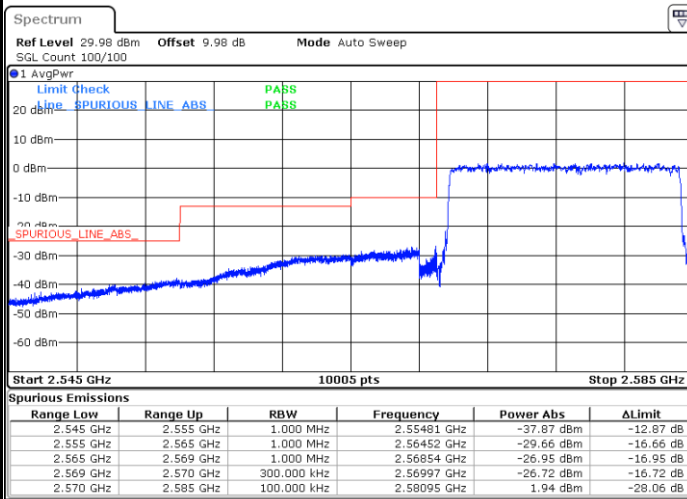
Date: 2 MAY 2020 17:28:43

Highest Band Edge / 1 RB



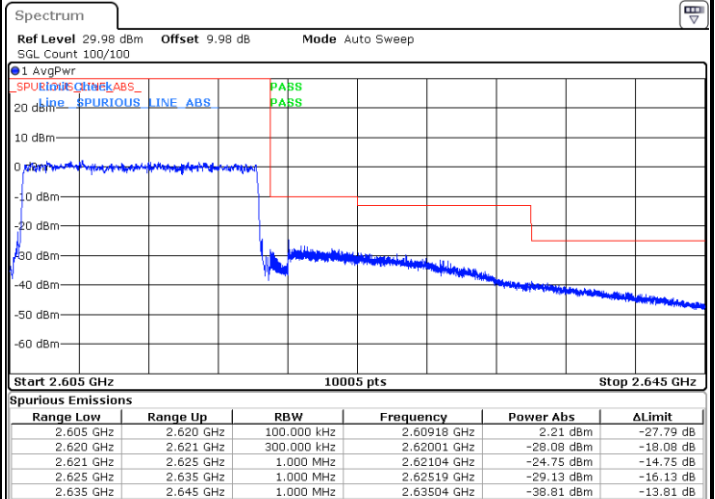
Date: 2 MAY 2020 17:35:31

Lowest Band Edge / Full RB



Date: 2 MAY 2020 17:30:59

Highest Band Edge / Full RB



Date: 2 MAY 2020 17:33:15

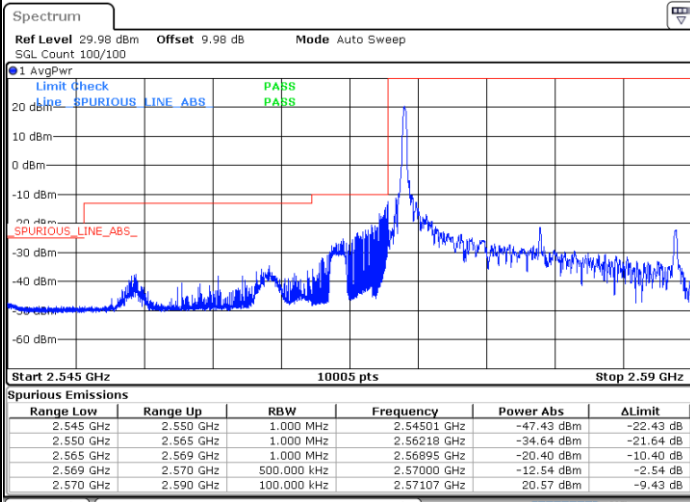




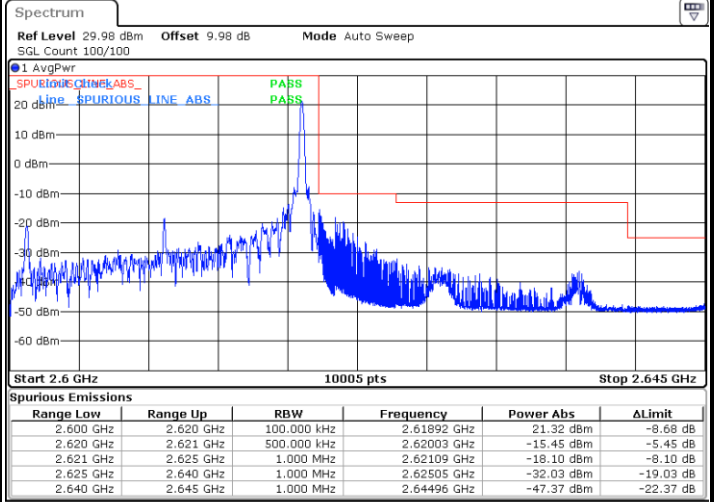
LTE Band 38 / 20MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



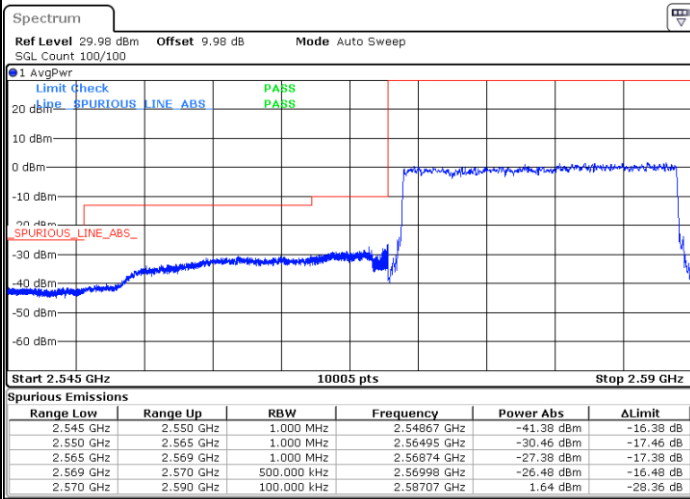
Date: 2 MAY 2020 17:36:39



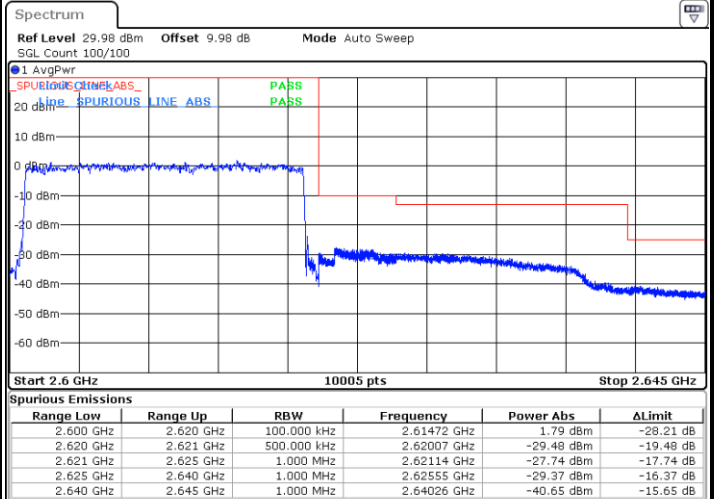
Date: 2 MAY 2020 17:43:27

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 2 MAY 2020 17:38:55

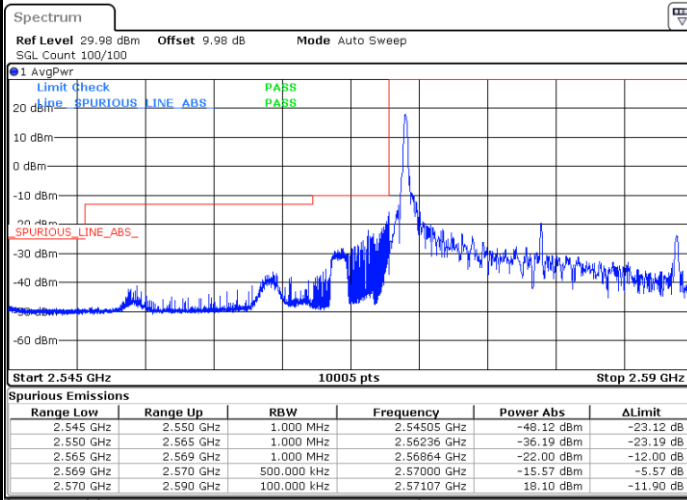


Date: 2 MAY 2020 17:41:11



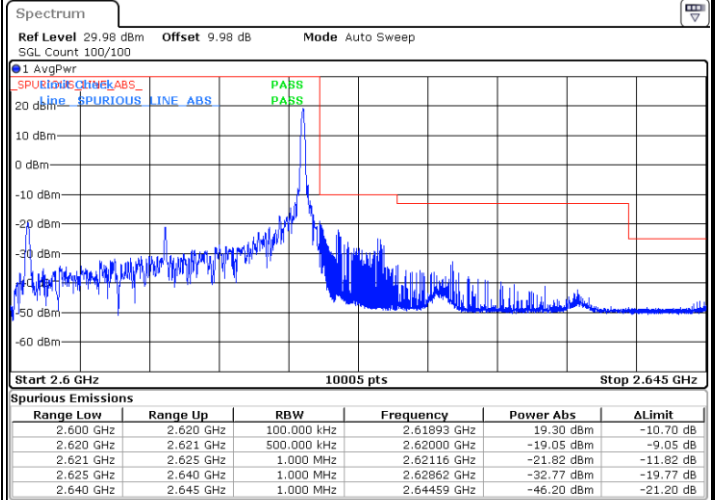
LTE Band 38 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



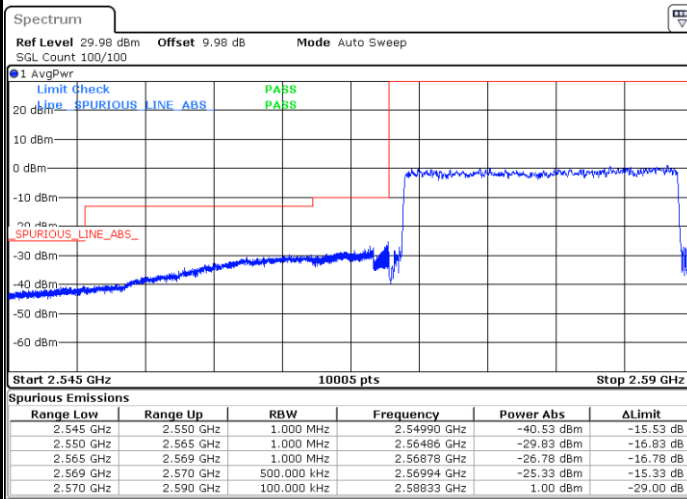
Date: 2 MAY 2020 17:37:47

Highest Band Edge / 1 RB



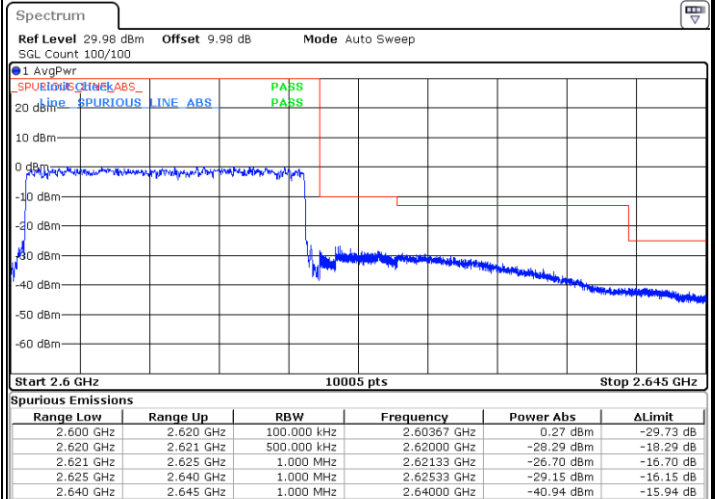
Date: 2 MAY 2020 17:44:35

Lowest Band Edge / Full RB



Date: 2 MAY 2020 17:40:03

Highest Band Edge / Full RB



Date: 2 MAY 2020 17:42:19



# Conducted Spurious Emission

