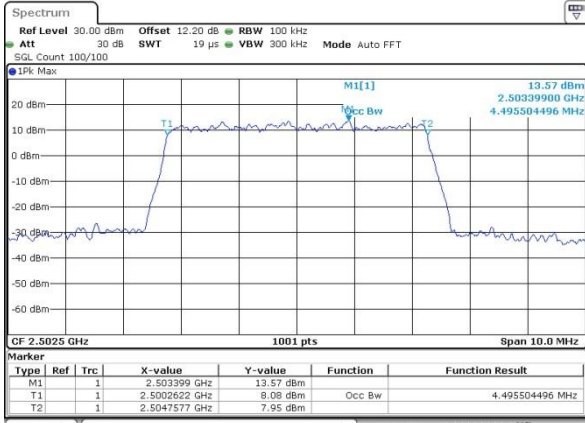




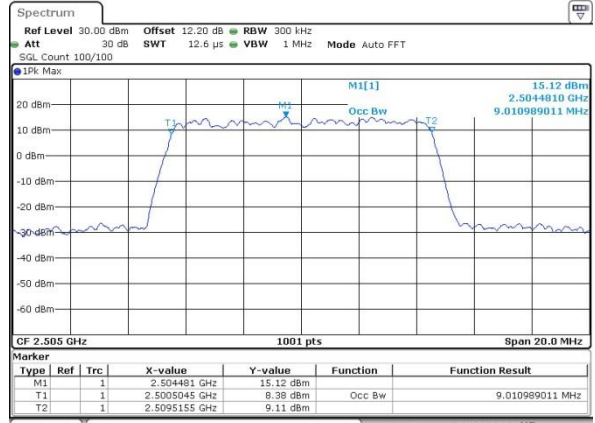
LTE Band 7

Lowest Channel / 5MHz / QPSK



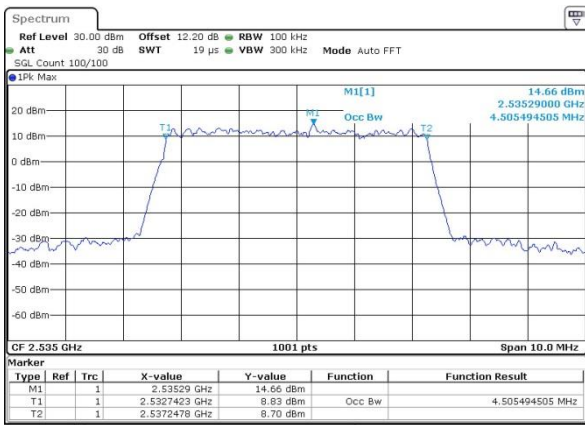
Date: 20_MAY_2019 15:50:54

Lowest Channel / 10MHz / QPSK



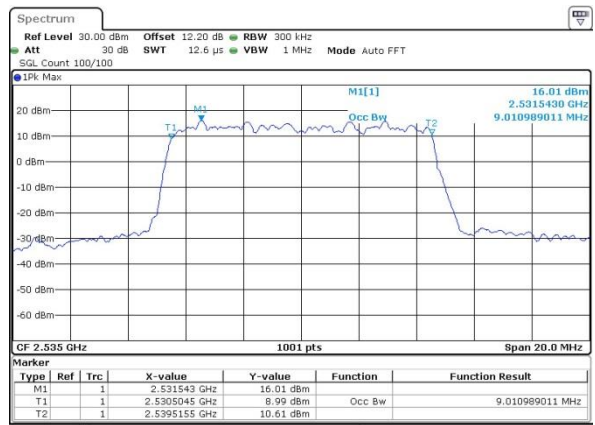
Date: 20_MAY_2019 16:11:19

Middle Channel / 5MHz / QPSK



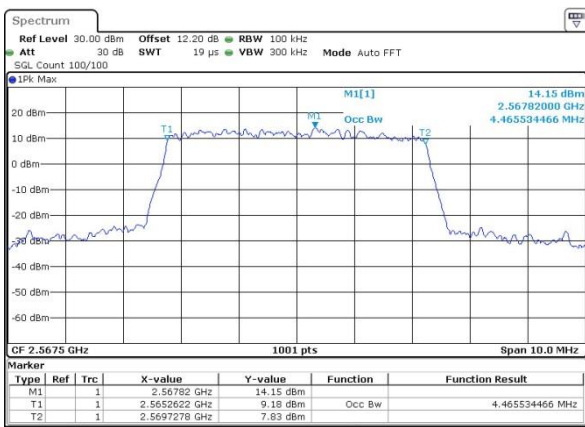
Date: 20_MAY_2019 15:59:43

Middle Channel / 10MHz / QPSK



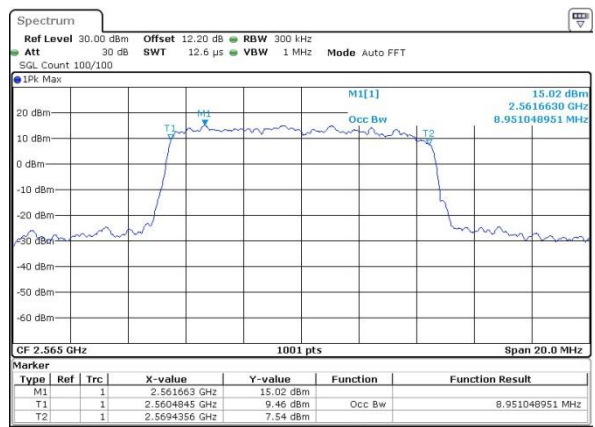
Date: 20_MAY_2019 16:20:08

Highest Channel / 5MHz / QPSK



Date: 20_MAY_2019 16:02:31

Highest Channel / 10MHz / QPSK

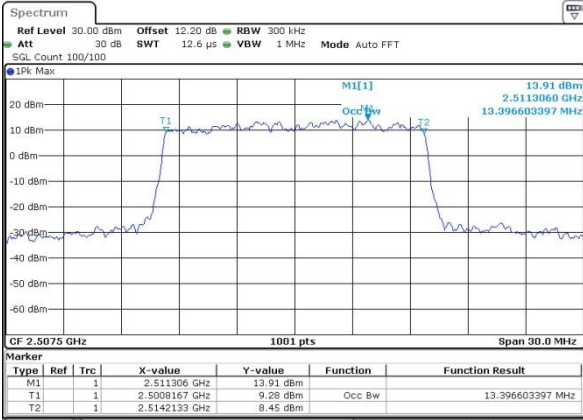


Date: 20_MAY_2019 16:22:56



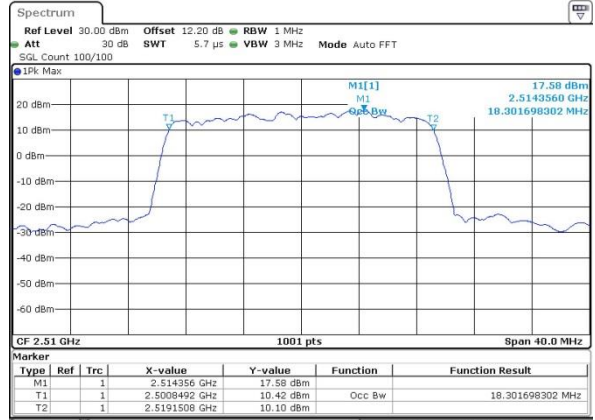
LTE Band 7

Lowest Channel / 15MHz / QPSK



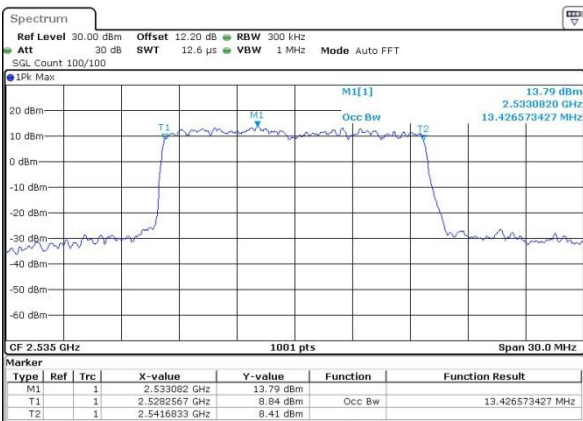
Date: 20.MAY.2019 16:31:43

Lowest Channel / 20MHz / QPSK



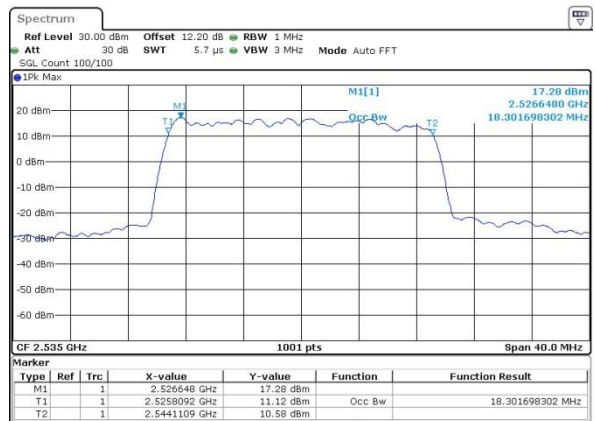
Date: 20.MAY.2019 16:52:08

Middle Channel / 15MHz / QPSK



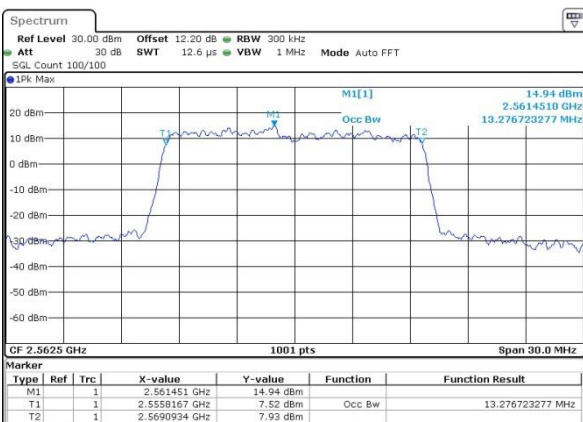
Date: 20.MAY.2019 16:40:31

Middle Channel / 20MHz / QPSK



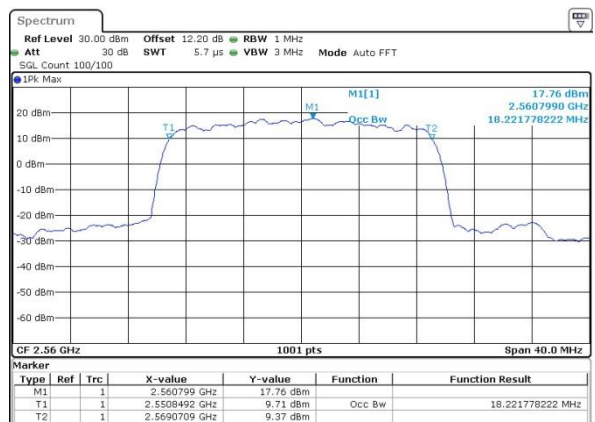
Date: 20.MAY.2019 17:00:56

Highest Channel / 15MHz / QPSK



Date: 20.MAY.2019 16:43:20

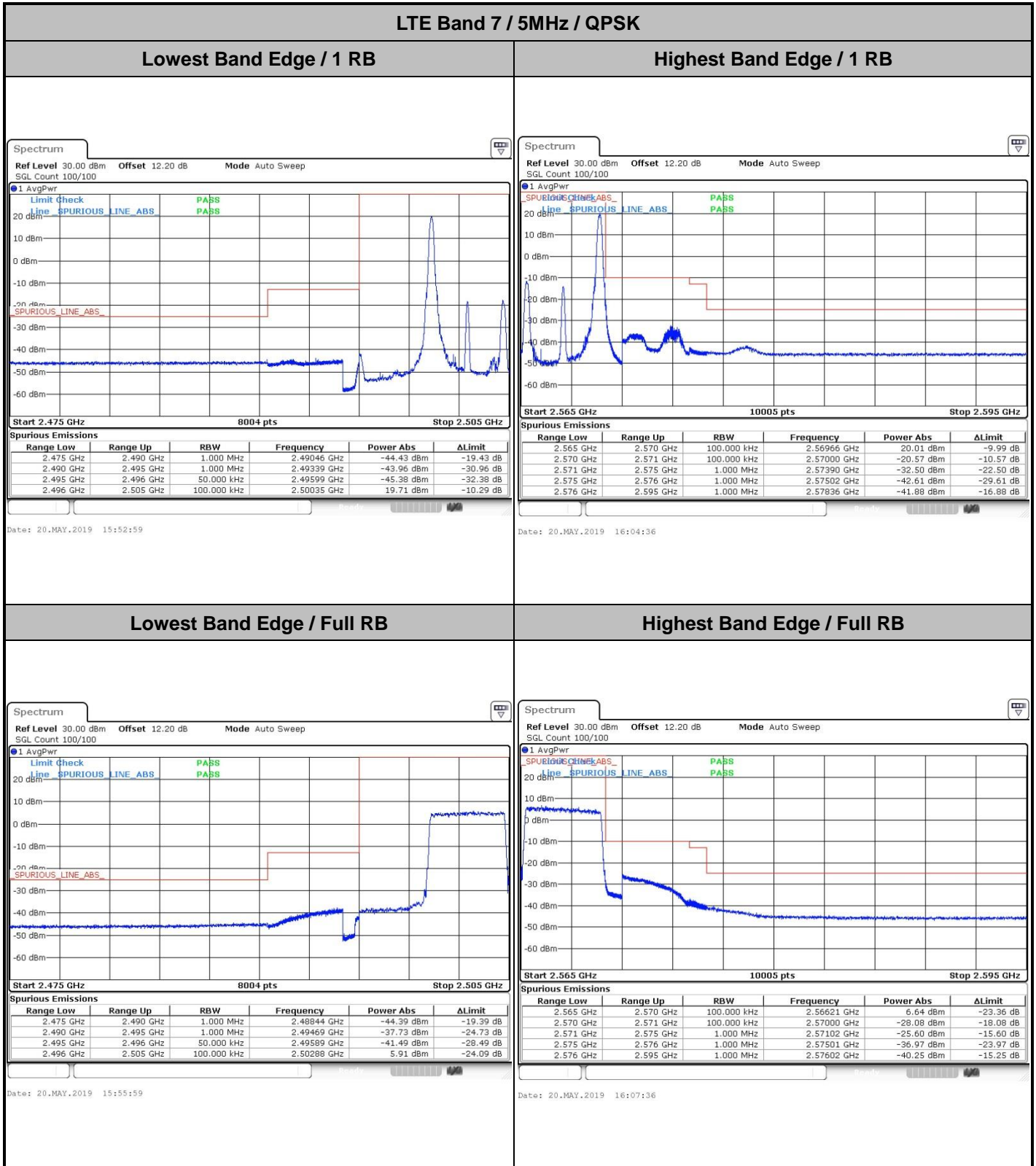
Highest Channel / 20MHz / QPSK



Date: 20.MAY.2019 17:03:44



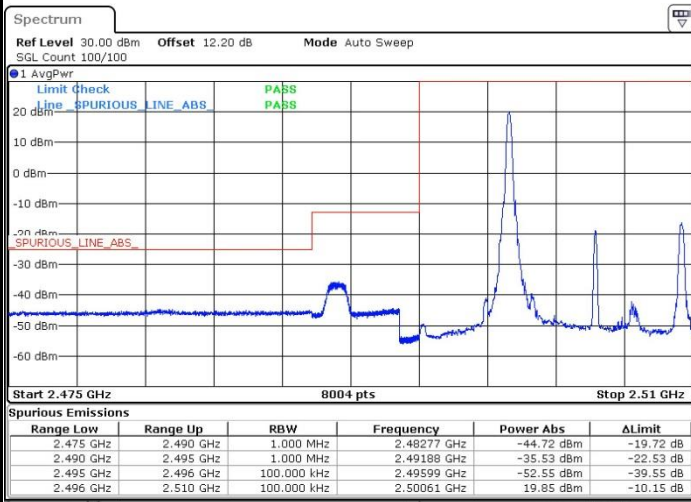
Conducted Band Edge





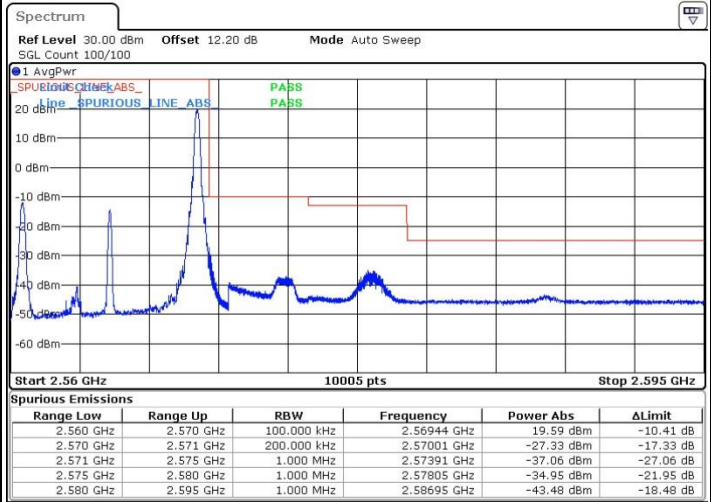
LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB



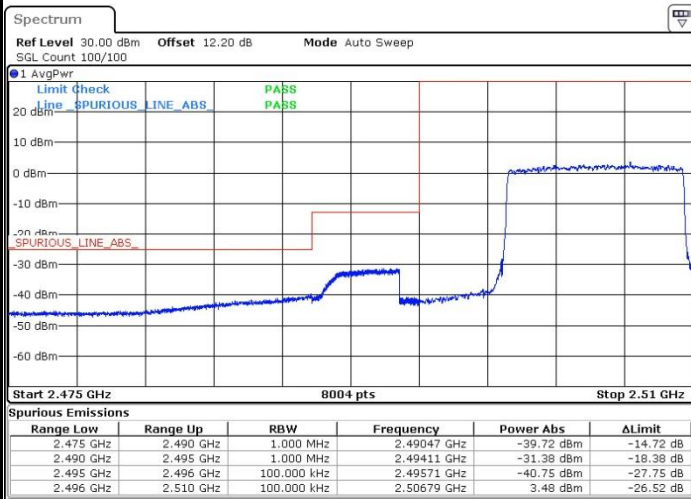
Date: 20.MAY.2019 16:13:24

Highest Band Edge / 1 RB



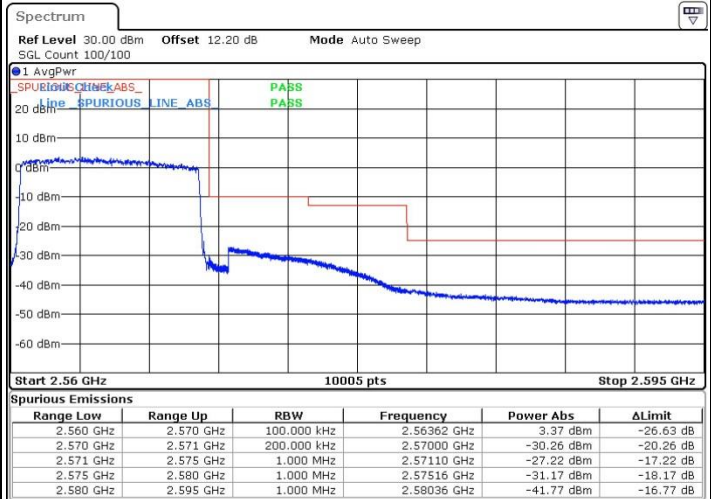
Date: 20.MAY.2019 16:25:00

Lowest Band Edge / Full RB



Date: 20.MAY.2019 16:16:24

Highest Band Edge / Full RB

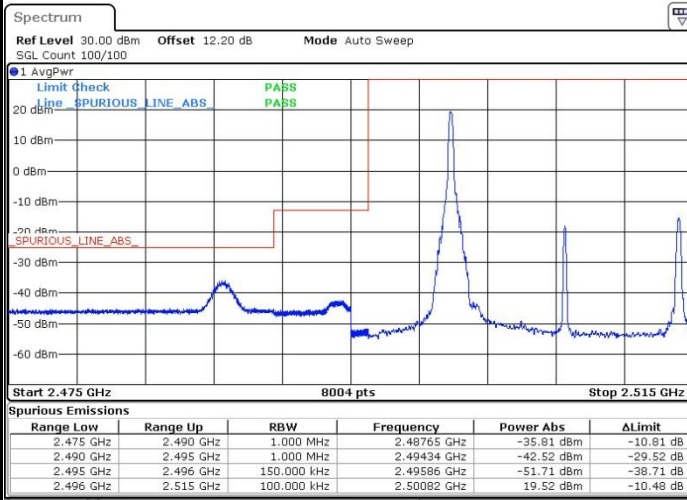


Date: 20.MAY.2019 16:28:00



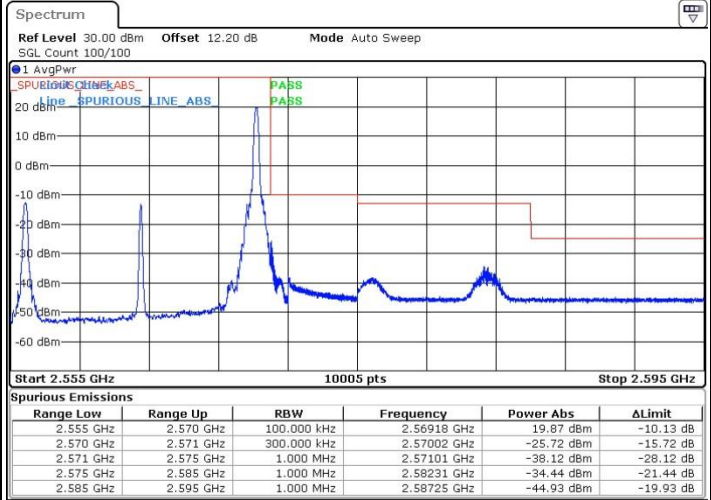
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB



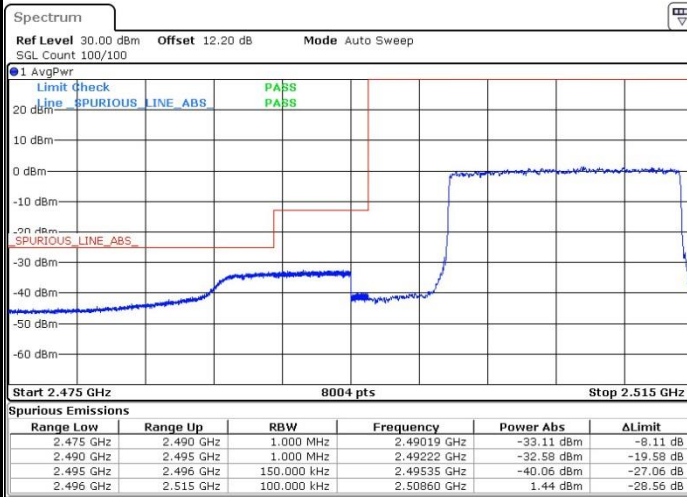
Date: 20.MAY.2019 16:33:48

Highest Band Edge / 1 RB



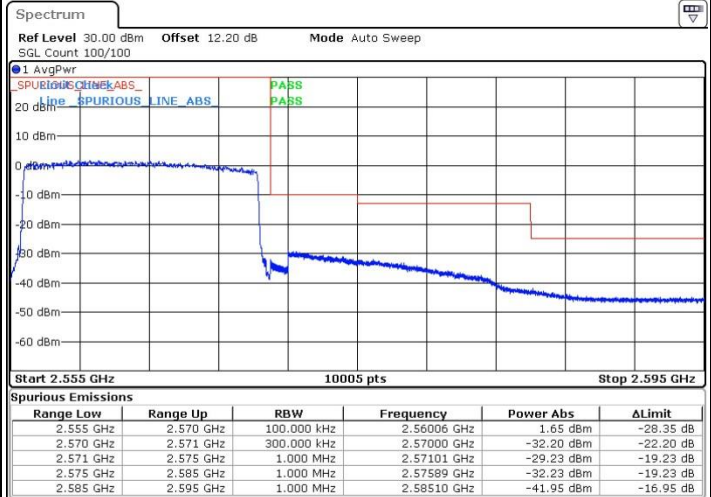
Date: 20.MAY.2019 16:45:25

Lowest Band Edge / Full RB



Date: 20.MAY.2019 16:36:48

Highest Band Edge / Full RB

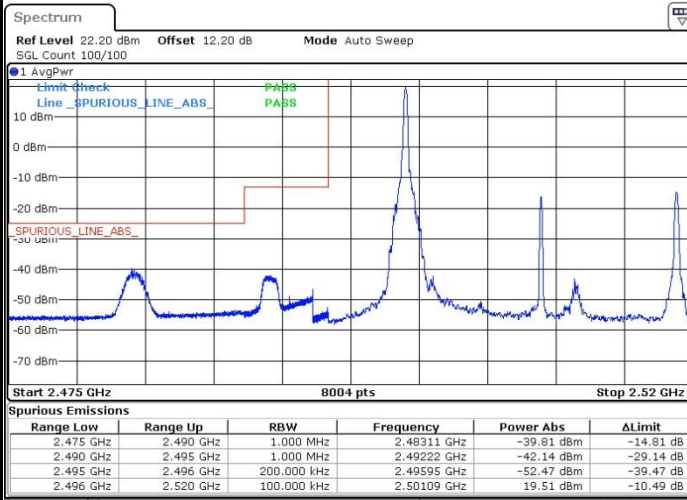


Date: 20.MAY.2019 16:48:25



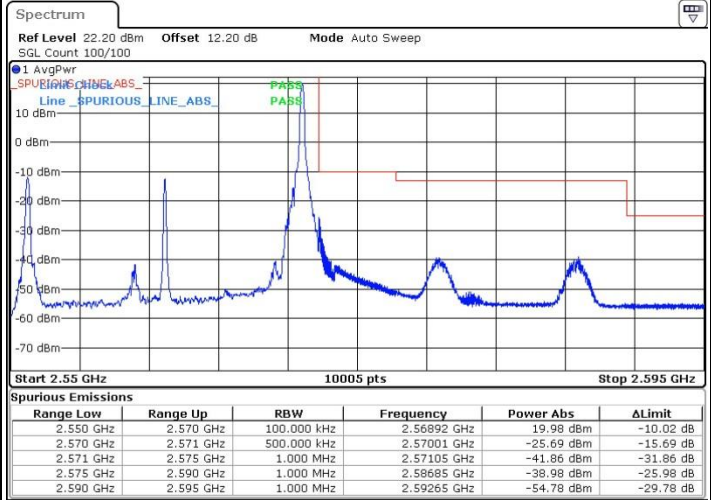
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB



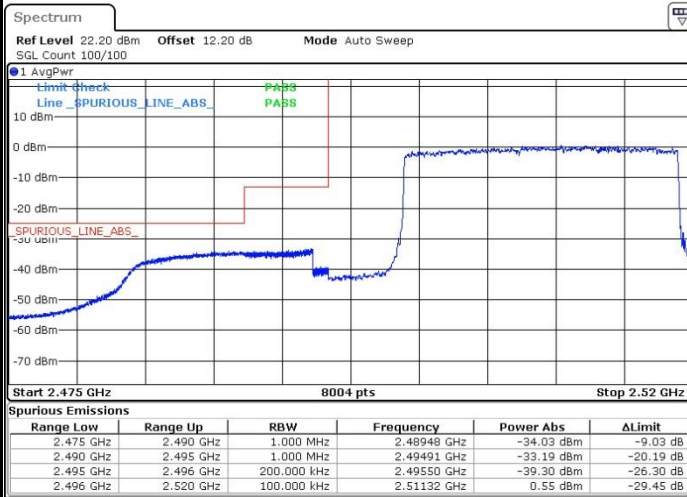
Date: 20.MAY.2019 16:54:13

Highest Band Edge / 1 RB



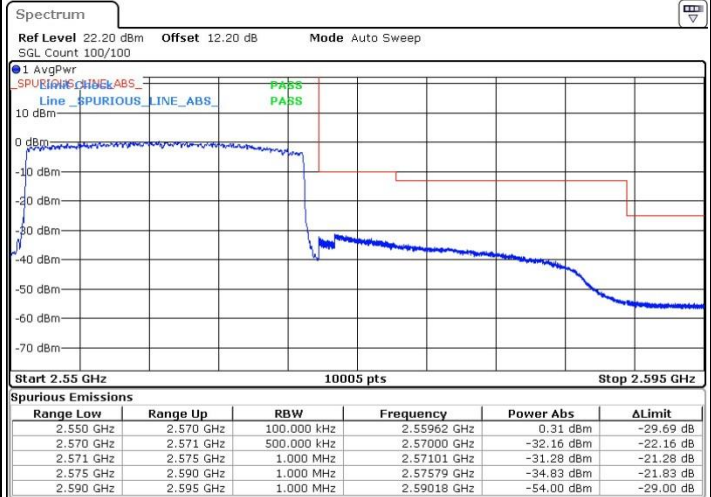
Date: 20.MAY.2019 17:05:49

Lowest Band Edge / Full RB



Date: 20.MAY.2019 16:57:13

Highest Band Edge / Full RB



Date: 20.MAY.2019 17:10:19



Conducted Spurious Emission

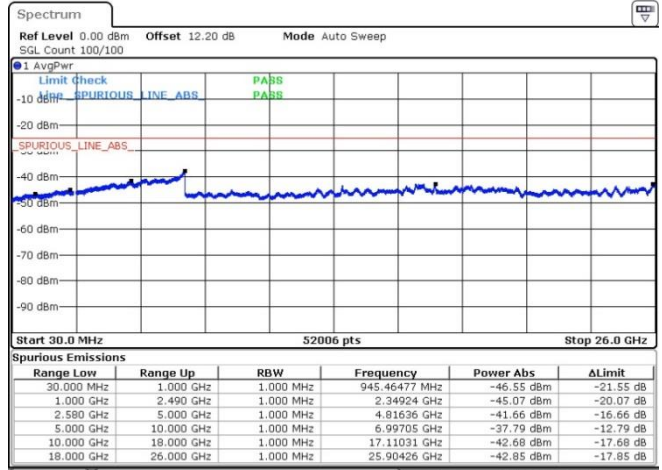
LTE Band 7 / 5MHz

Lowest Channel / QPSK

Highest Channel / QPSK

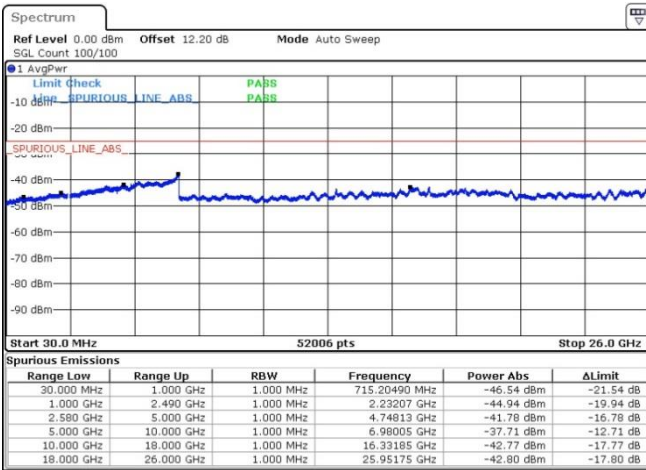


Date: 20.MAY.2019 15:58:29



Date: 20.MAY.2019 16:10:05

Middle Channel / QPSK



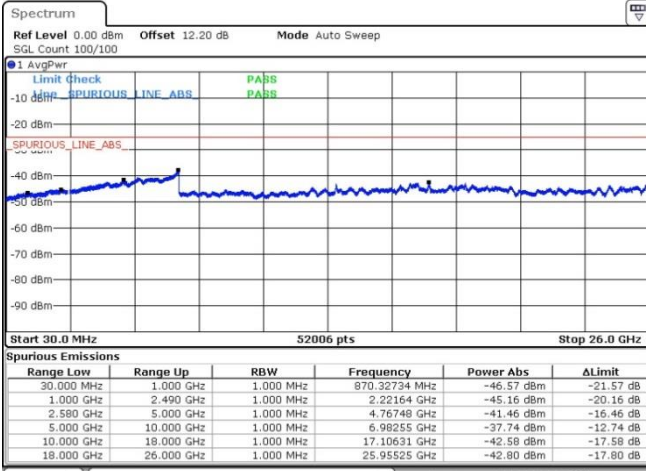
Date: 20.MAY.2019 16:01:17



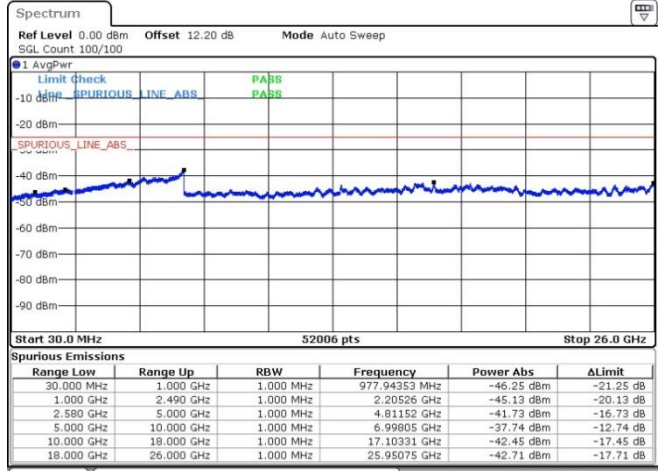
LTE Band 7 / 10MHz

Lowest Channel / QPSK

Highest Channel / QPSK

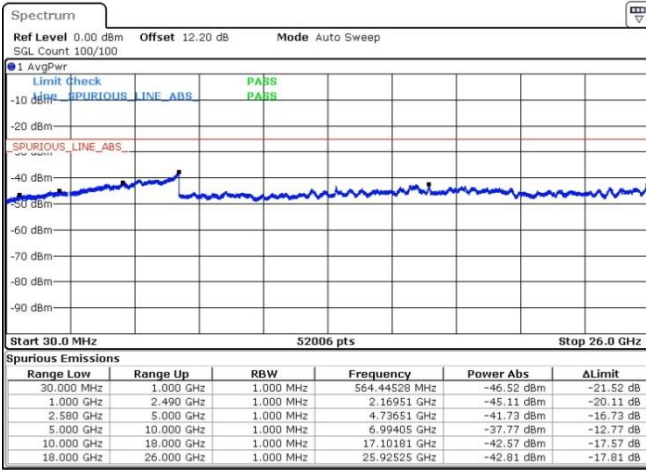


Date: 20.MAY.2019 16:18:54



Date: 20.MAY.2019 16:30:29

Middle Channel / QPSK



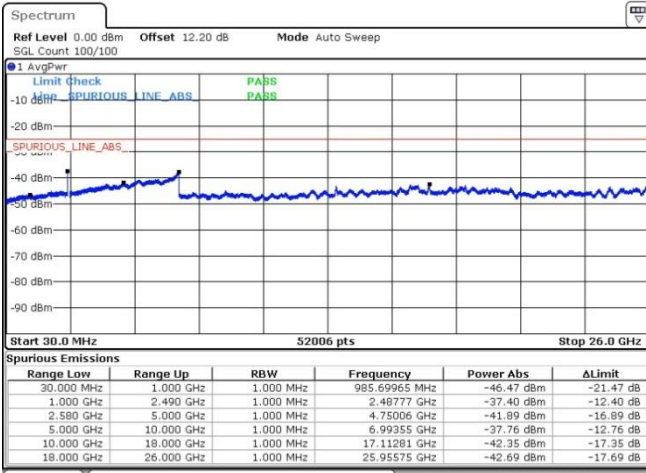
Date: 20.MAY.2019 16:21:42



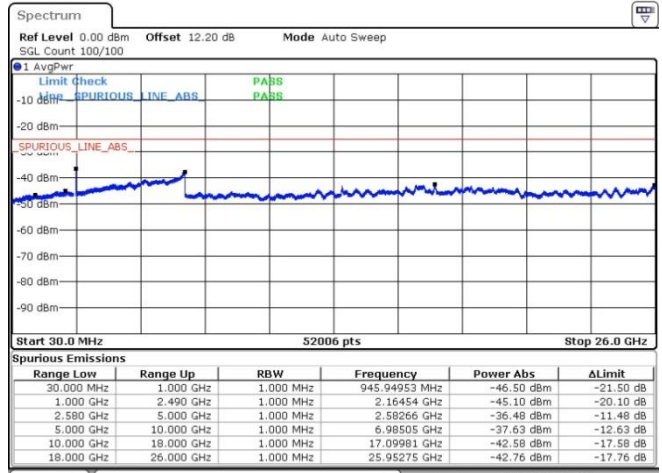
LTE Band 7 / 15MHz

Lowest Channel / QPSK

Highest Channel / QPSK

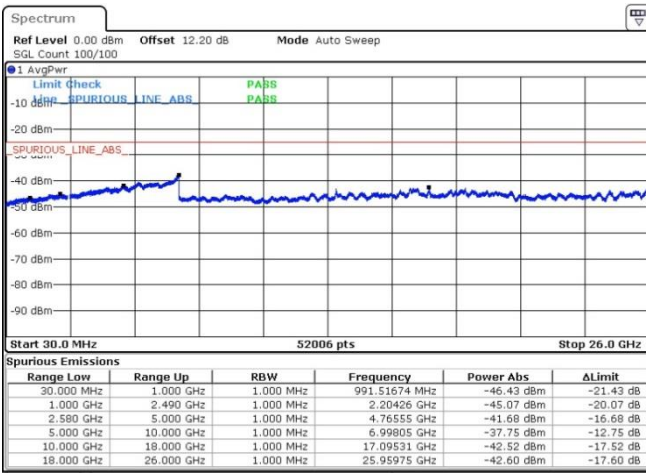


Date: 20.MAY.2019 16:39:17



Date: 20.MAY.2019 16:50:54

Middle Channel / QPSK



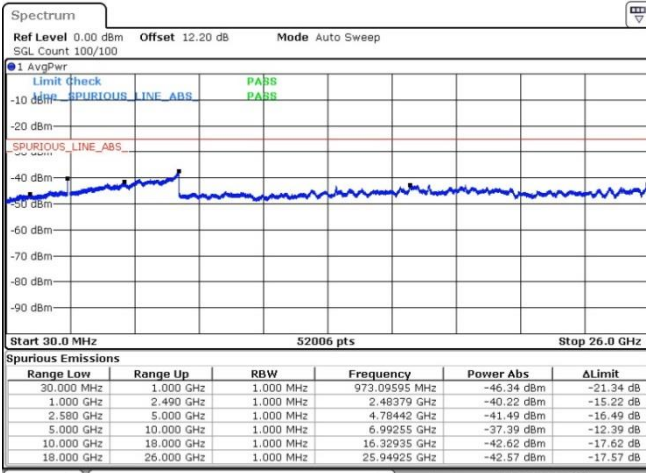
Date: 20.MAY.2019 16:42:06



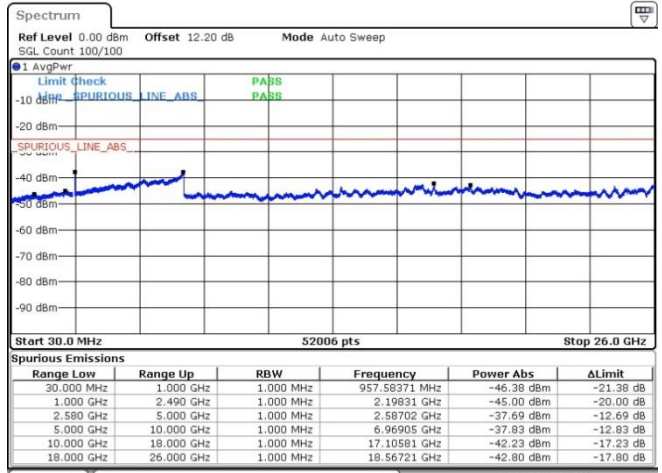
LTE Band 7 / 20MHz

Lowest Channel / QPSK

Highest Channel / QPSK

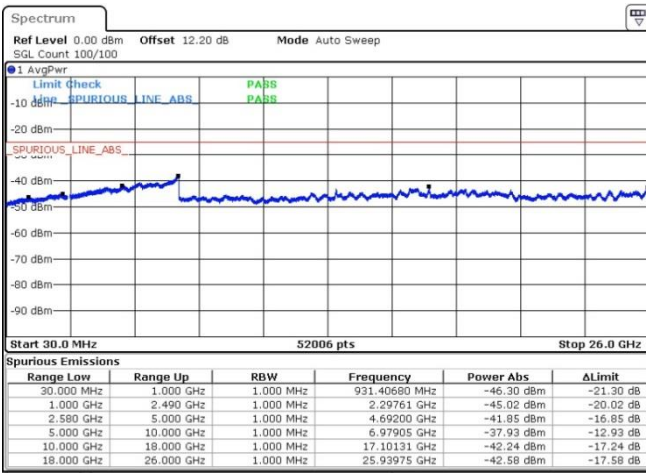


Date: 20.MAY.2019 16:59:42



Date: 20.MAY.2019 17:11:19

Middle Channel / QPSK



Date: 20.MAY.2019 17:02:31



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	0.0010	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0017	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0011	
0	Normal Voltage	0.0010	
-10	Normal Voltage	0.0009	
-20	Normal Voltage	0.0001	
-30	Normal Voltage	0.0007	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0019	

Note:

1. Normal Voltage =14.0 V. ; Battery End Point (BEP) =14.0 V. ; Maximum Voltage =16.0 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 12

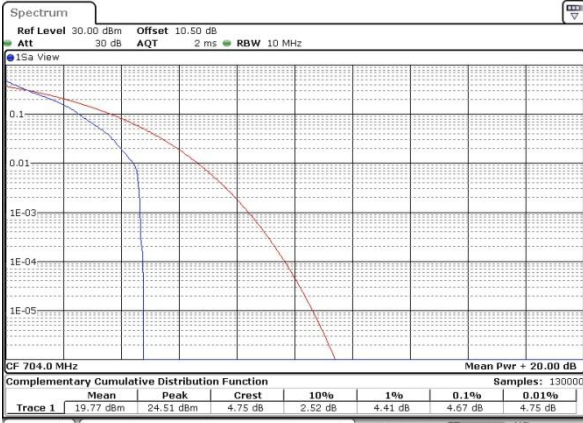
Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.67	4.96	-	-	PASS
Middle CH	4.52	5.13	-	-	
Highest CH	4.55	4.99	-	-	



LTE Band 12 / 10MHz / QPSK

Lowest Channel / 1RB



Date: 21.MAY.2019 09:55:47

Lowest Channel / Full RB



Date: 21.MAY.2019 09:55:131

Middle Channel / 1RB



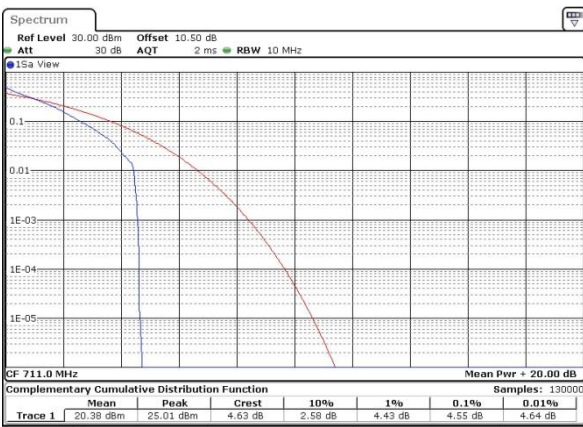
Date: 21.MAY.2019 09:56:00

Middle Channel / Full RB



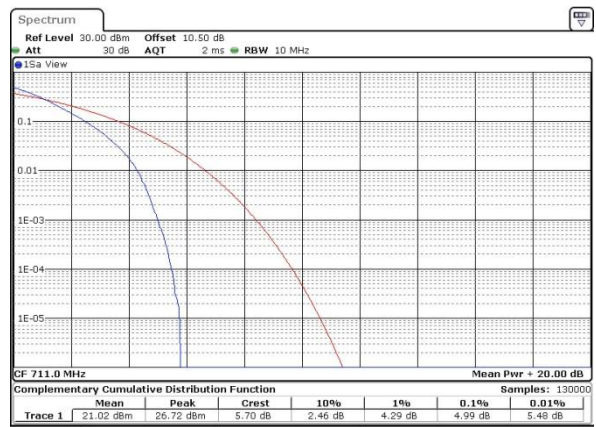
Date: 21.MAY.2019 09:56:14

Highest Channel / 1RB



Date: 21.MAY.2019 09:56:50

Highest Channel / Full RB



Date: 21.MAY.2019 09:56:137



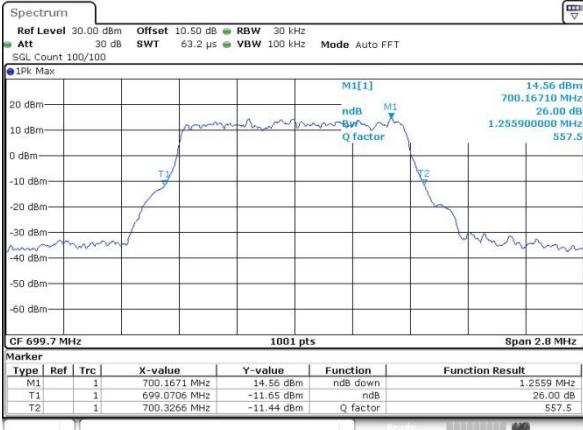
26dB Bandwidth

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	1.26	-	3.00	-	4.88	-	9.67	-	-	-	-	-
Middle CH	1.26	-	2.99	-	4.96	-	9.87	-	-	-	-	-
Highest CH	1.27	-	3.00	-	4.99	-	9.87	-	-	-	-	-



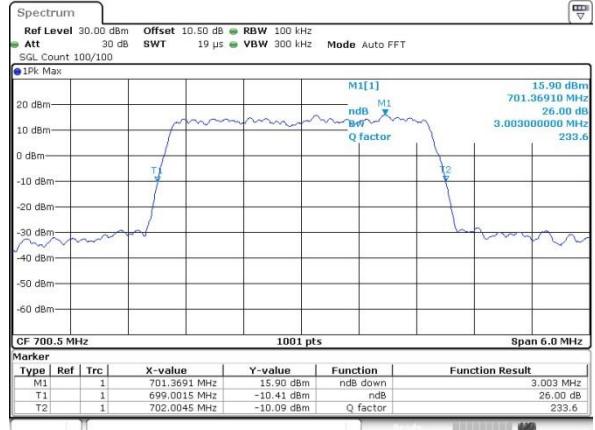
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



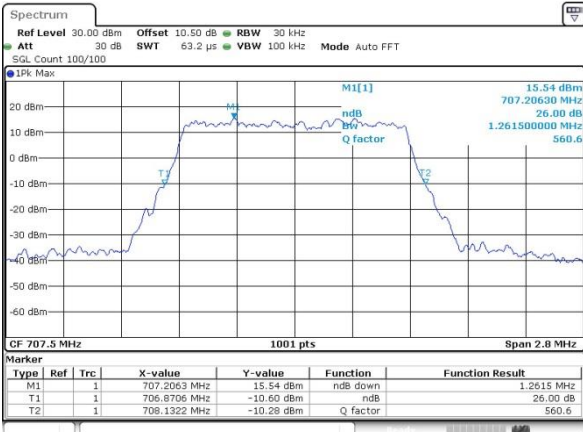
Date: 21.MAY.2019 09:33:22

Lowest Channel / 3MHz / QPSK



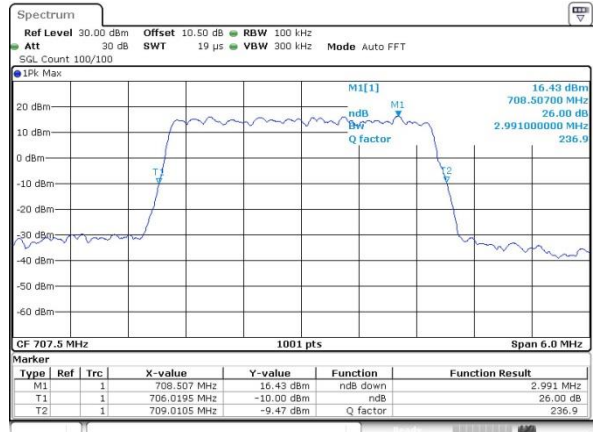
Date: 20.MAY.2019 17:36:43

Middle Channel / 1.4MHz / QPSK



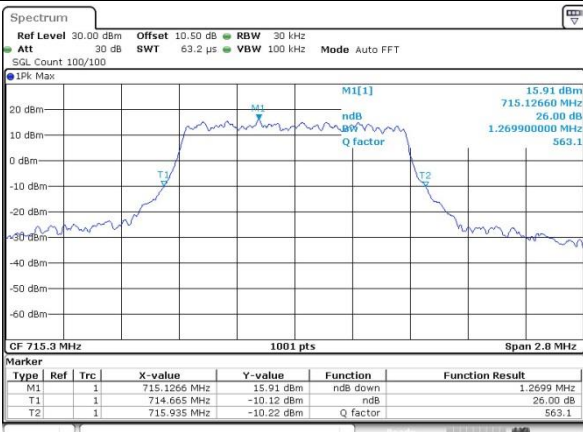
Date: 21.MAY.2019 09:42:26

Middle Channel / 3MHz / QPSK



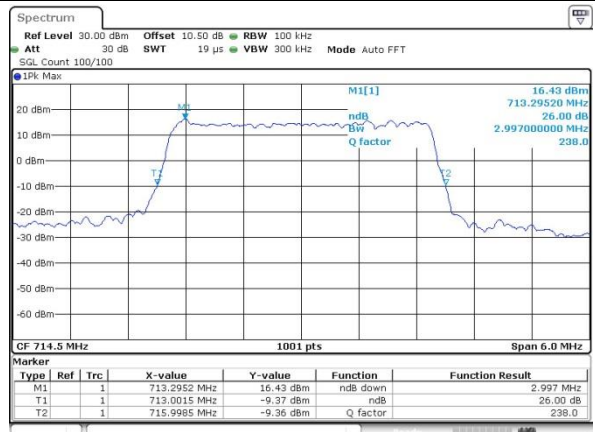
Date: 20.MAY.2019 17:45:22

Highest Channel / 1.4MHz / QPSK



Date: 21.MAY.2019 09:45:32

Highest Channel / 3MHz / QPSK

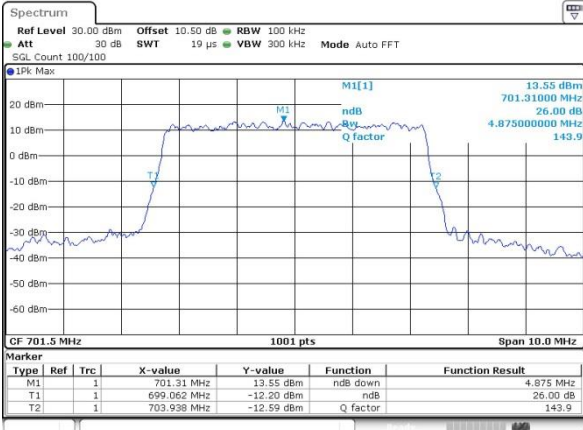


Date: 20.MAY.2019 17:48:26



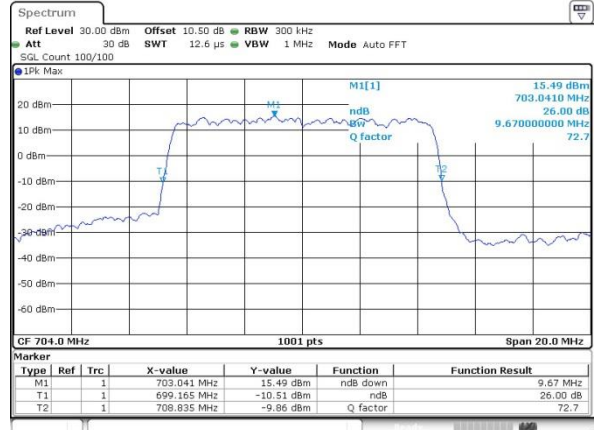
LTE Band 12

Lowest Channel / 5MHz / QPSK



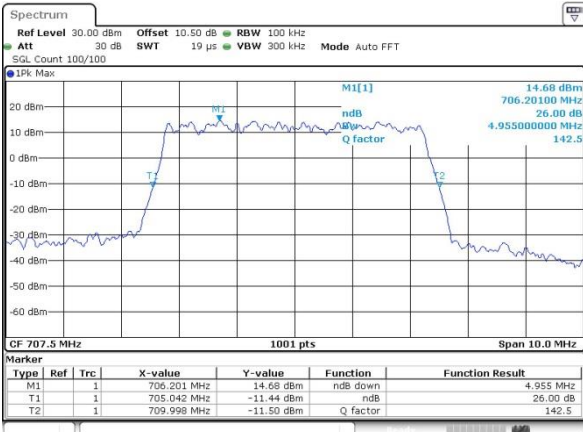
Date: 20.MAY.2019 17:57:16

Lowest Channel / 10MHz / QPSK



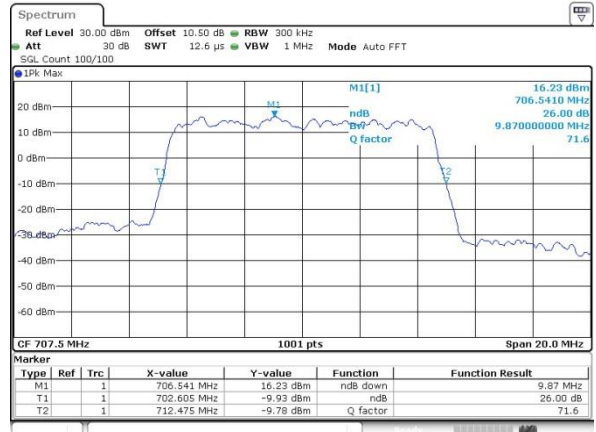
Date: 20.MAY.2019 18:17:50

Middle Channel / 5MHz / QPSK



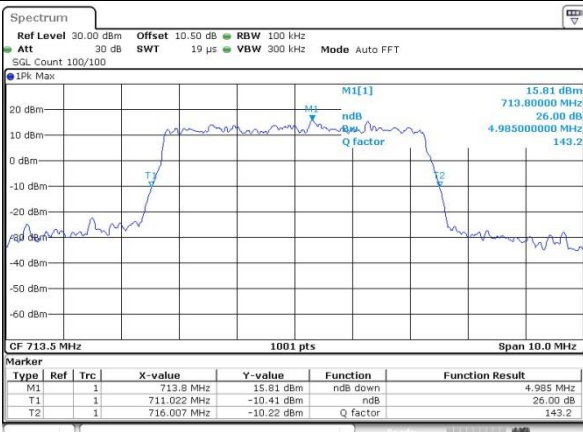
Date: 20.MAY.2019 18:05:55

Middle Channel / 10MHz / QPSK



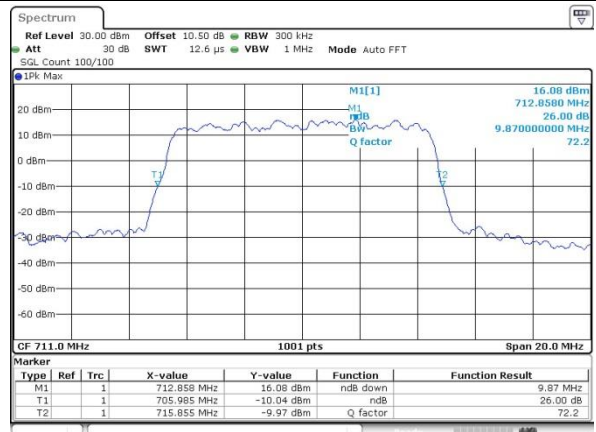
Date: 20.MAY.2019 18:26:28

Highest Channel / 5MHz / QPSK



Date: 20.MAY.2019 18:08:59

Highest Channel / 10MHz / QPSK



Date: 20.MAY.2019 18:29:33



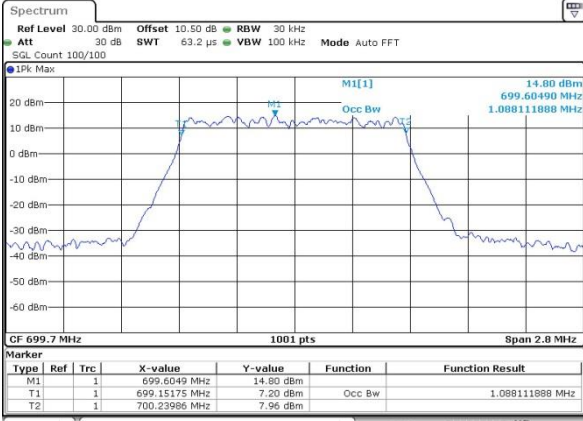
Occupied Bandwidth

Mode	LTE Band 12 : 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	1.09	-	2.72	-	4.49	-	8.99	-	-	-	-	-
Middle CH	1.09	-	2.72	-	4.49	-	9.03	-	-	-	-	-
Highest CH	1.09	-	2.72	-	4.48	-	9.03	-	-	-	-	-



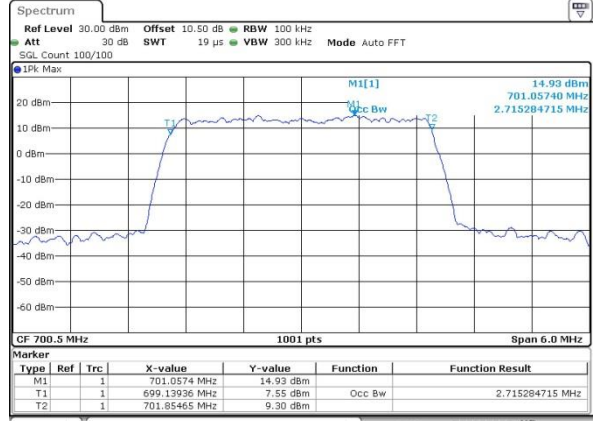
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



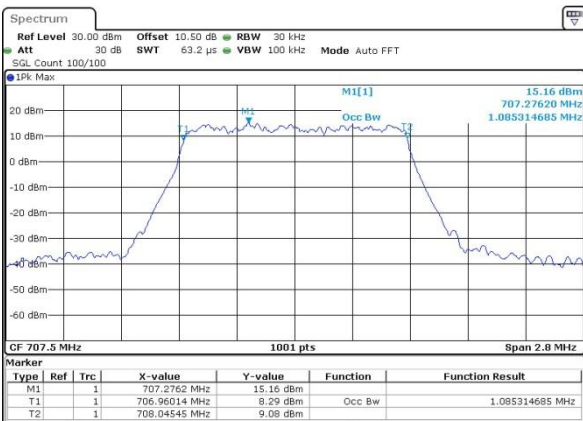
Date: 21.MAY.2019 09:32:46

Lowest Channel / 3MHz / QPSK



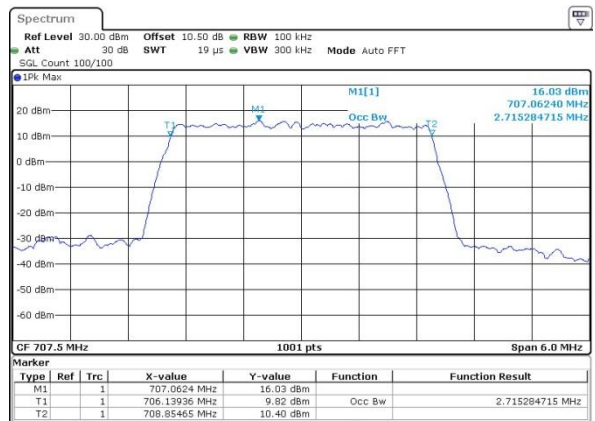
Date: 20.MAY.2019 17:36:08

Middle Channel / 1.4MHz / QPSK



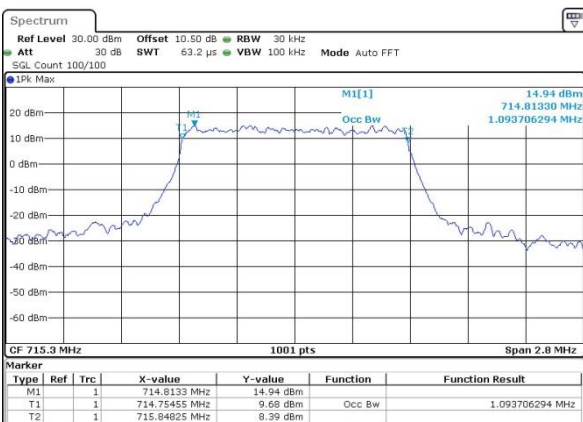
Date: 21.MAY.2019 09:42:14

Middle Channel / 3MHz / QPSK



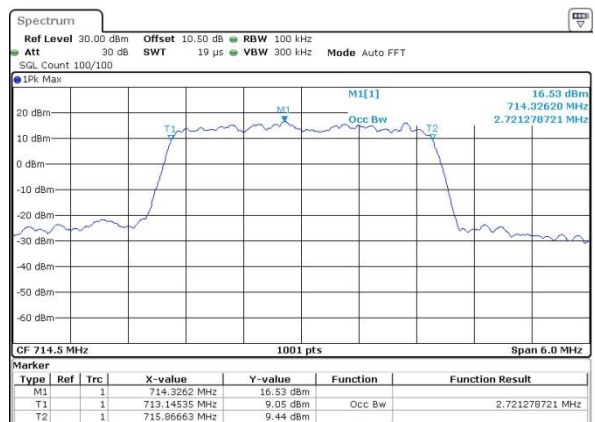
Date: 20.MAY.2019 17:45:10

Highest Channel / 1.4MHz / QPSK



Date: 21.MAY.2019 09:44:57

Highest Channel / 3MHz / QPSK

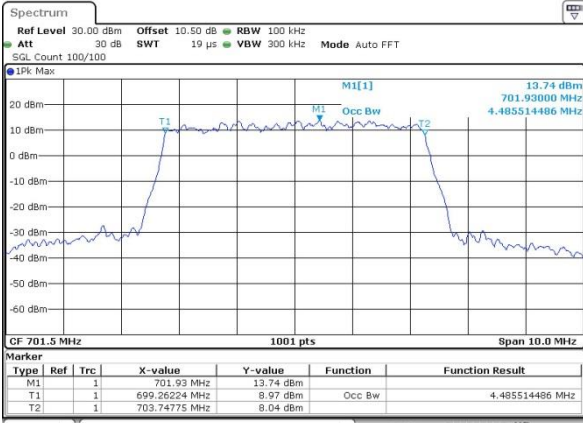


Date: 20.MAY.2019 17:47:51



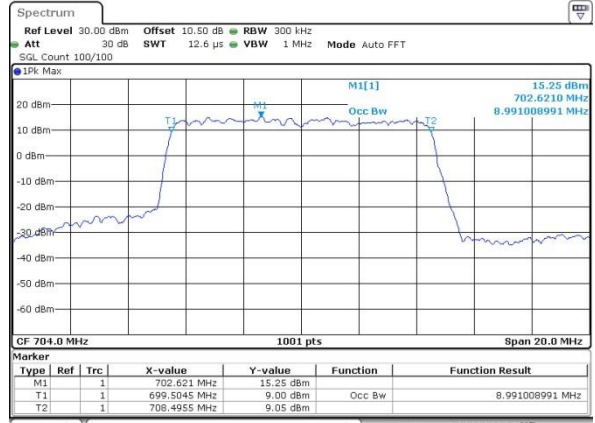
LTE Band 12

Lowest Channel / 5MHz / QPSK



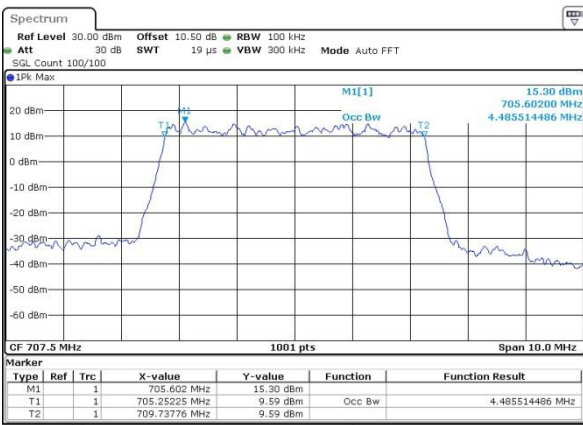
Date: 20_MAY_2019 17:56:41

Lowest Channel / 10MHz / QPSK



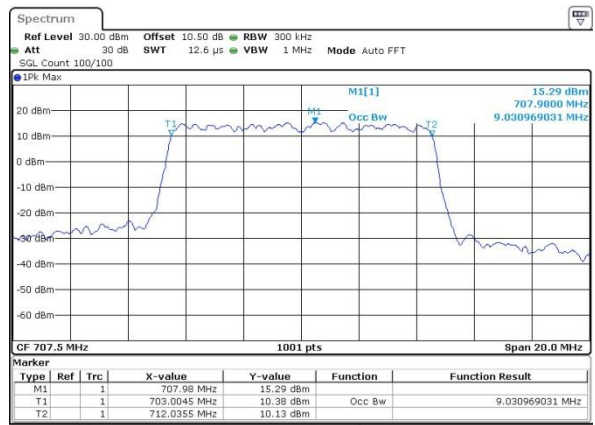
Date: 20_MAY_2019 18:17:15

Middle Channel / 5MHz / QPSK



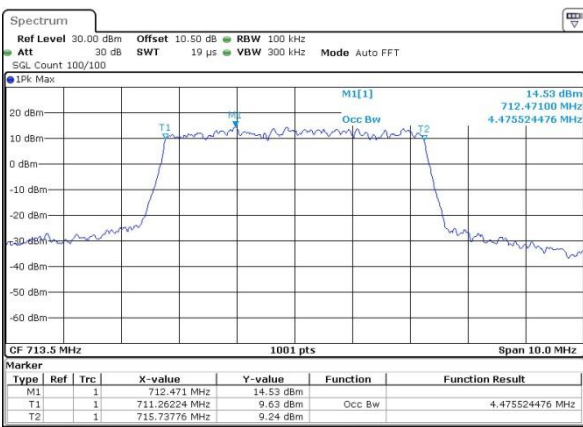
Date: 20_MAY_2019 18:05:43

Middle Channel / 10MHz / QPSK



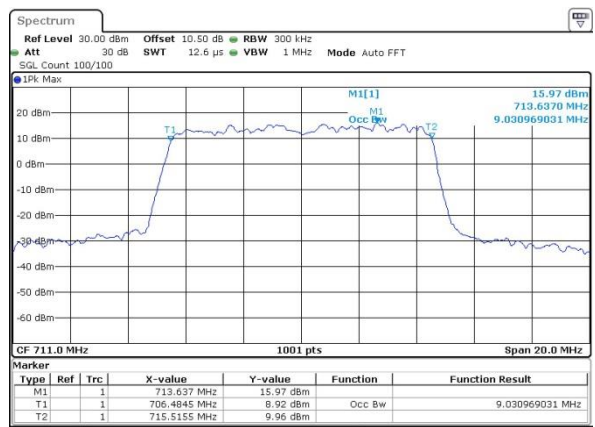
Date: 20_MAY_2019 18:26:17

Highest Channel / 5MHz / QPSK



Date: 20_MAY_2019 18:08:24

Highest Channel / 10MHz / QPSK



Date: 20_MAY_2019 18:28:58



Conducted Band Edge

