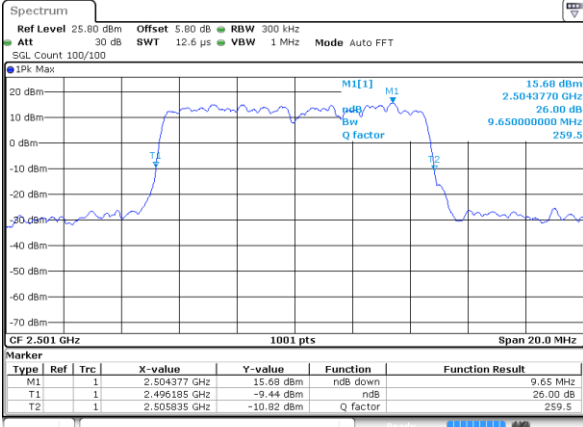




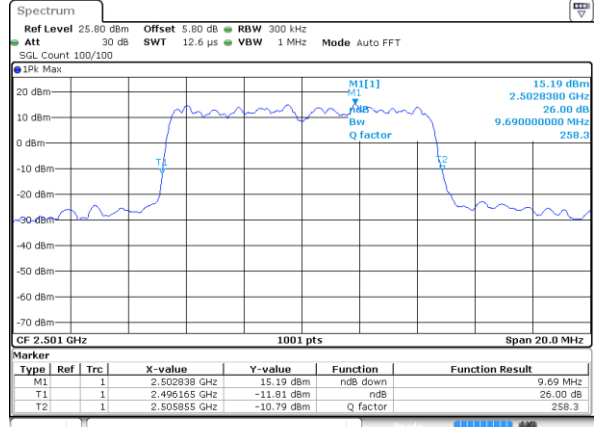
LTE Band 41

Lowest Channel / 10MHz / QPSK



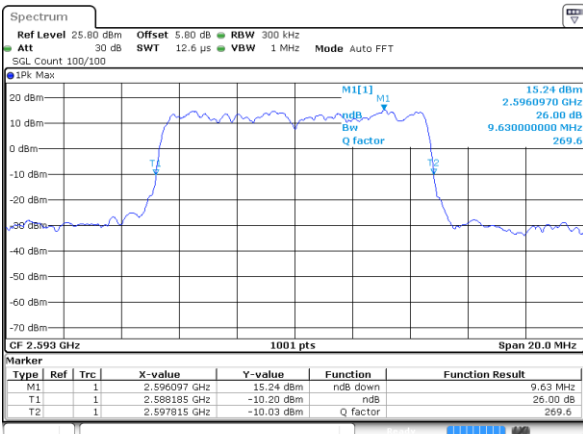
Date: 10 DEC 2019 21:35:45

Lowest Channel / 10MHz / 16QAM



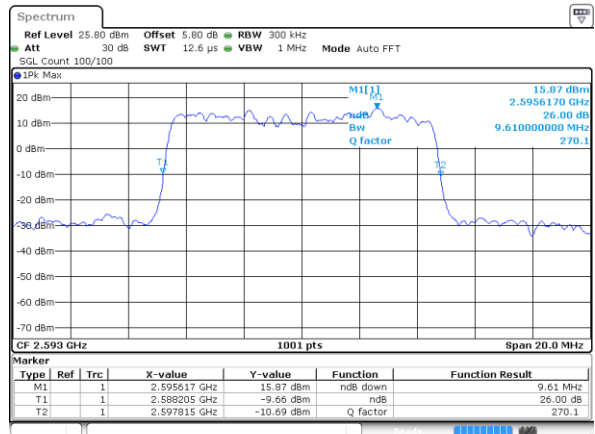
Date: 10 DEC 2019 21:35:55

Middle Channel / 10MHz / QPSK



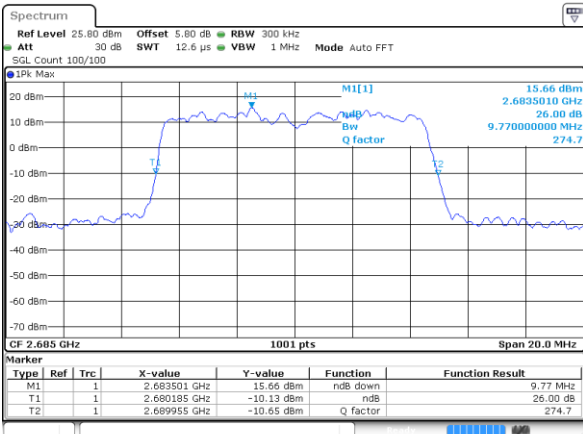
Date: 10 DEC 2019 21:36:25

Middle Channel / 10MHz / 16QAM



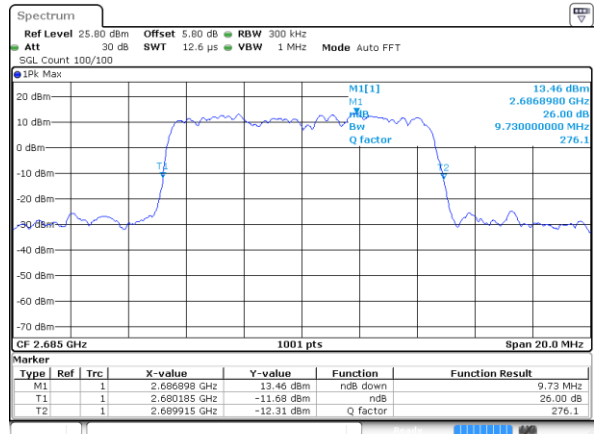
Date: 10 DEC 2019 21:36:35

Highest Channel / 10MHz / QPSK



Date: 10 DEC 2019 21:37:05

Highest Channel / 10MHz / 16QAM

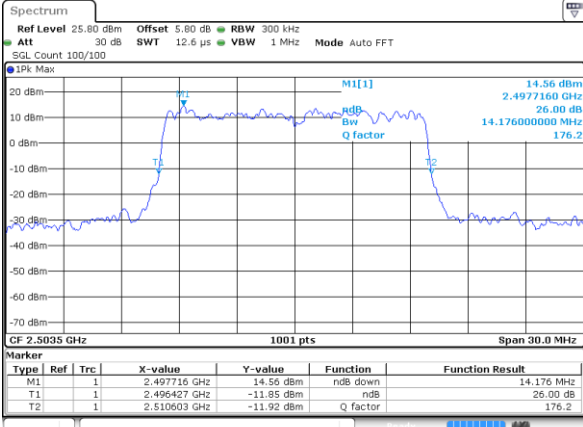


Date: 10 DEC 2019 21:37:15



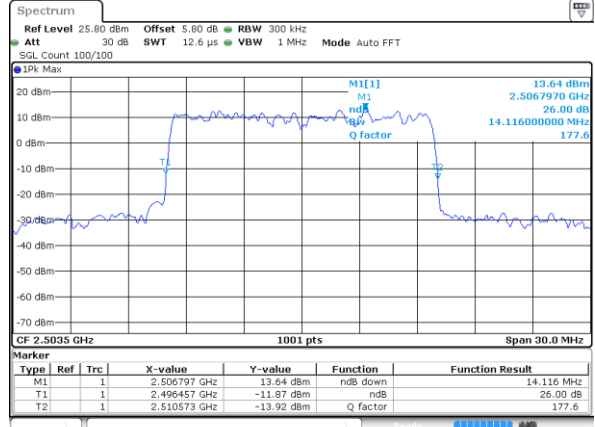
LTE Band 41

Lowest Channel / 15MHz / QPSK



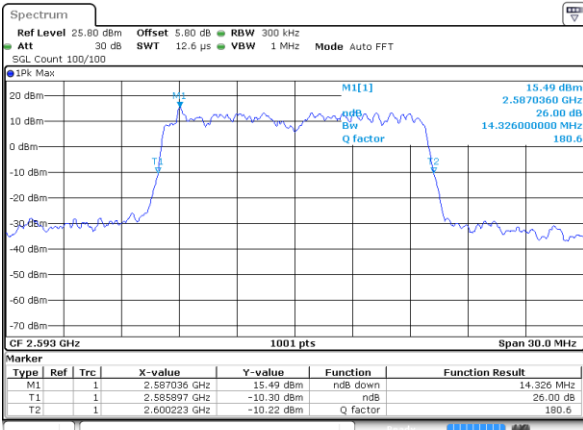
Date: 10 DEC 2019 21:37:45

Lowest Channel / 15MHz / 16QAM



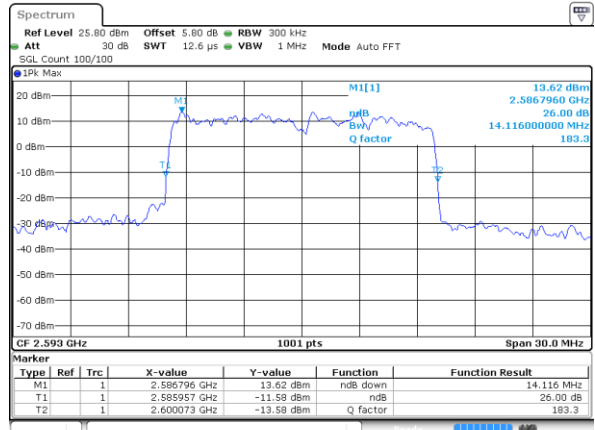
Date: 10 DEC 2019 21:37:55

Middle Channel / 15MHz / QPSK



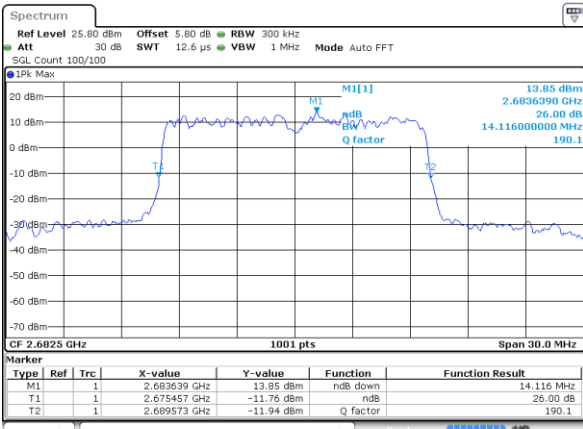
Date: 10 DEC 2019 21:38:25

Middle Channel / 15MHz / 16QAM



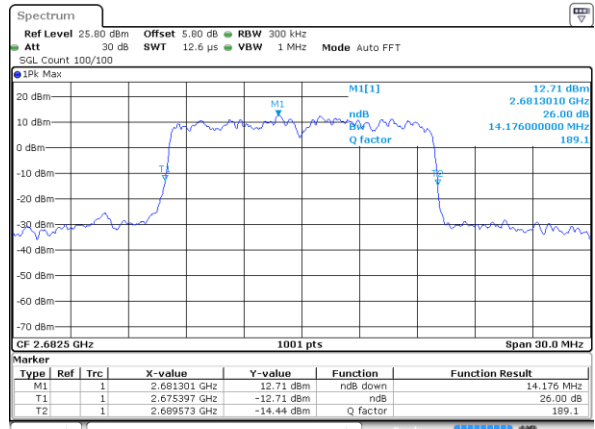
Date: 10 DEC 2019 21:38:35

Highest Channel / 15MHz / QPSK



Date: 10 DEC 2019 21:39:04

Highest Channel / 15MHz / 16QAM

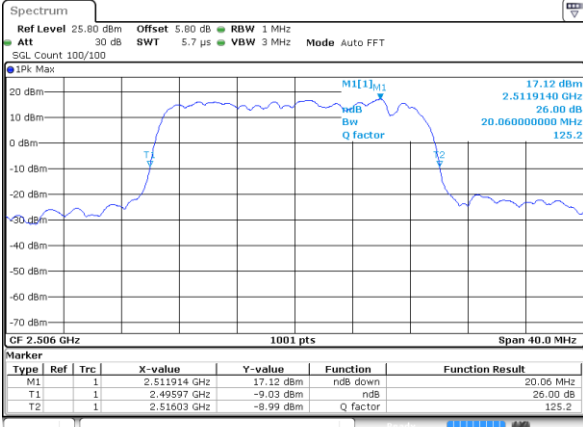


Date: 10 DEC 2019 21:39:14



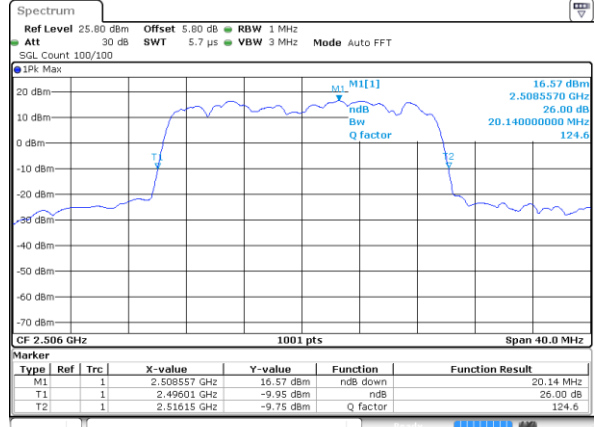
LTE Band 41

Lowest Channel / 20MHz / QPSK



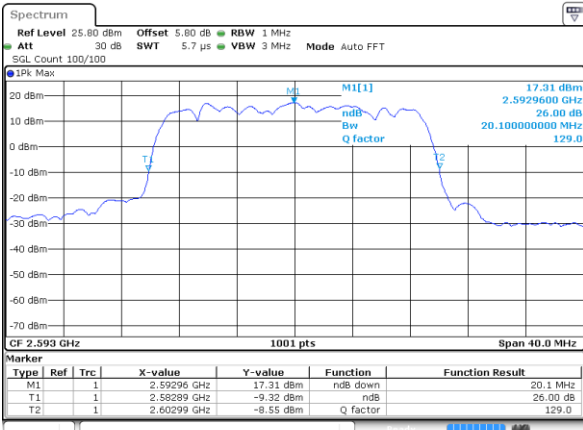
Date: 10 DEC 2019 21:39:44

Lowest Channel / 20MHz / 16QAM



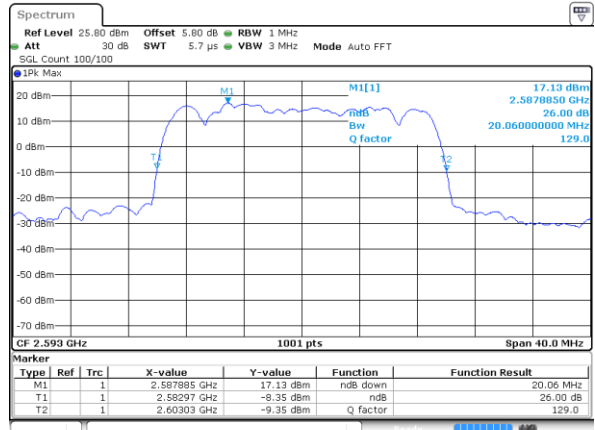
Date: 10 DEC 2019 21:39:54

Middle Channel / 20MHz / QPSK



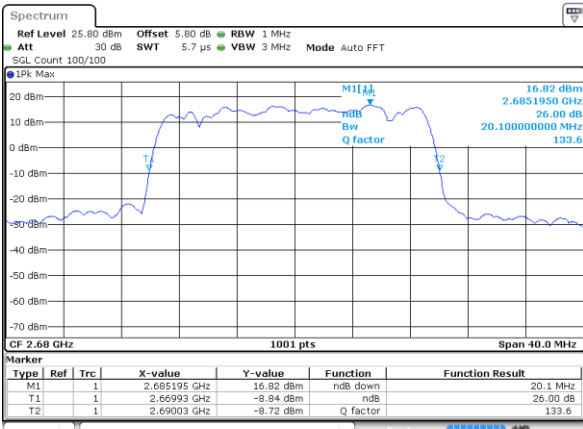
Date: 10 DEC 2019 21:40:24

Middle Channel / 20MHz / 16QAM



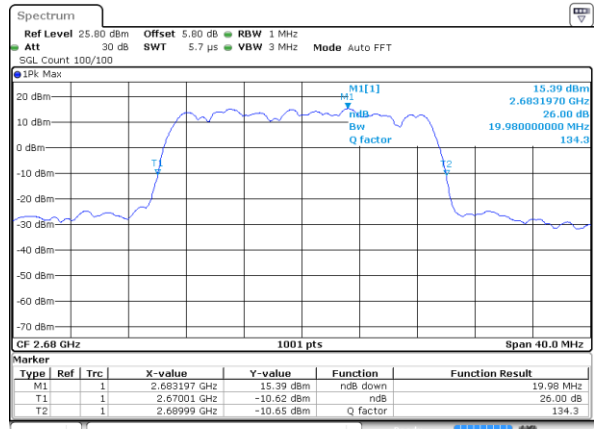
Date: 10 DEC 2019 21:40:34

Highest Channel / 20MHz / QPSK



Date: 10 DEC 2019 21:41:04

Highest Channel / 20MHz / 16QAM



Date: 10 DEC 2019 21:41:14



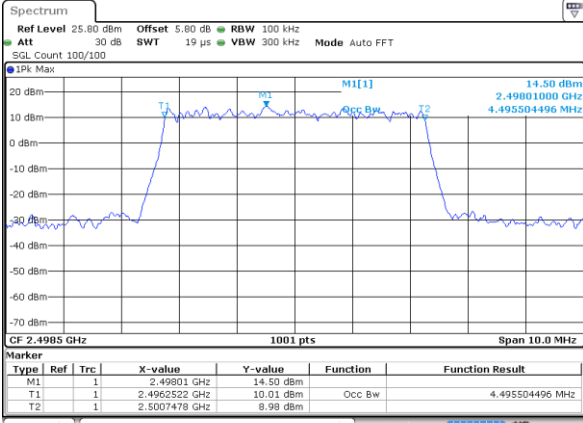
Occupied Bandwidth

Mode	LTE Band 41 : 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					4.496	4.486	8.971	9.031	13.367	13.457	18.422	18.262
Middle CH					4.476	4.466	8.971	9.011	13.457	13.457	18.262	18.142
Highest CH					4.486	4.486	9.011	8.991	13.397	13.367	18.182	18.222



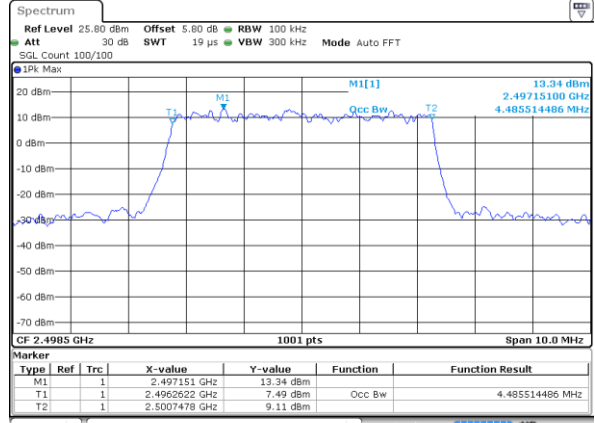
LTE Band 41

Lowest Channel / 5MHz / QPSK



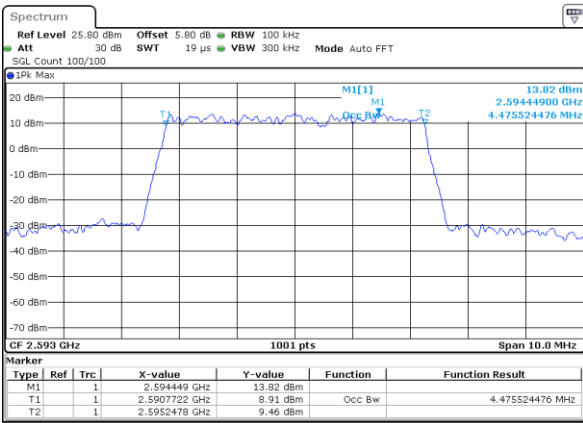
Date: 10 DEC 2019 21:33:25

Lowest Channel / 5MHz / 16QAM



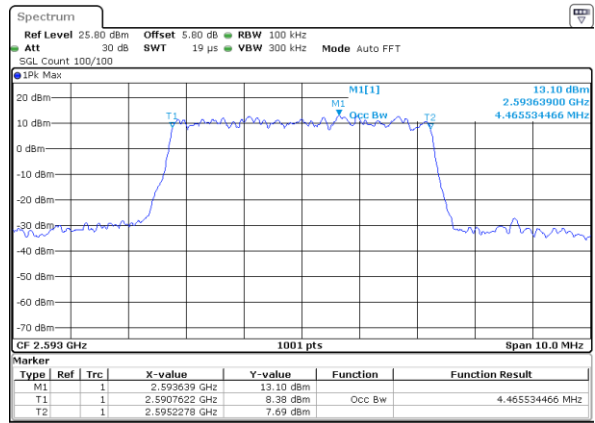
Date: 10 DEC 2019 21:33:36

Middle Channel / 5MHz / QPSK



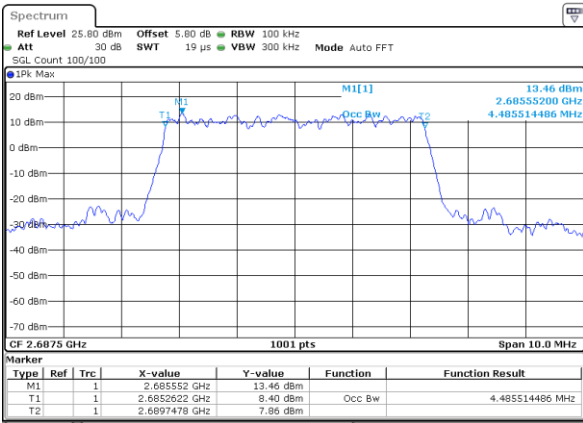
Date: 10 DEC 2019 21:34:06

Middle Channel / 5MHz / 16QAM



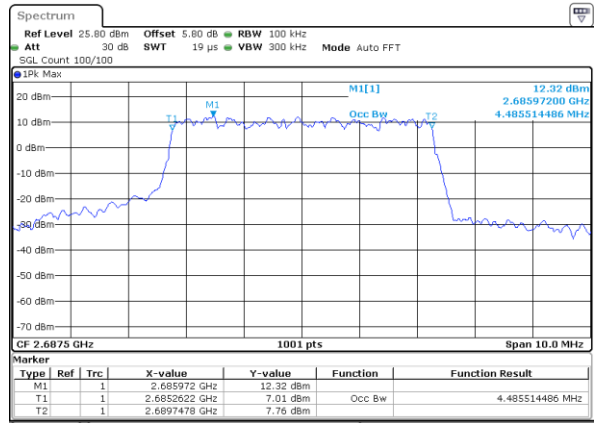
Date: 10 DEC 2019 21:34:16

Highest Channel / 5MHz / QPSK



Date: 10 DEC 2019 21:34:46

Highest Channel / 5MHz / 16QAM

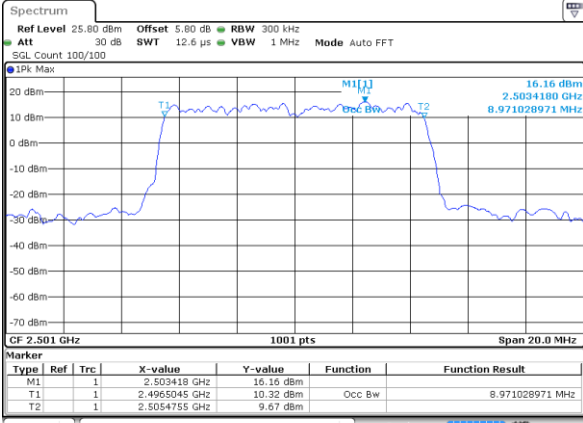


Date: 10 DEC 2019 21:34:56



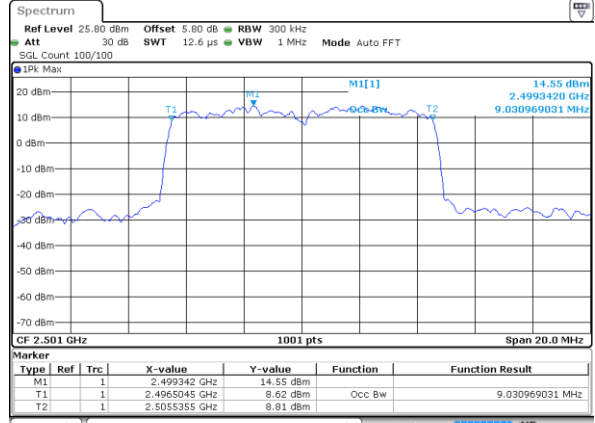
LTE Band 41

Lowest Channel / 10MHz / QPSK



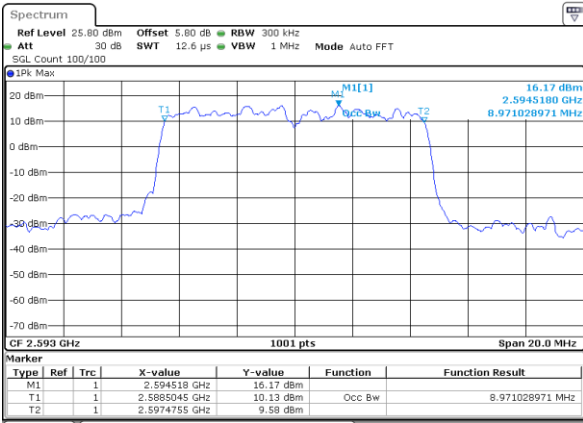
Date: 10 DEC 2019 21:35:25

Lowest Channel / 10MHz / 16QAM



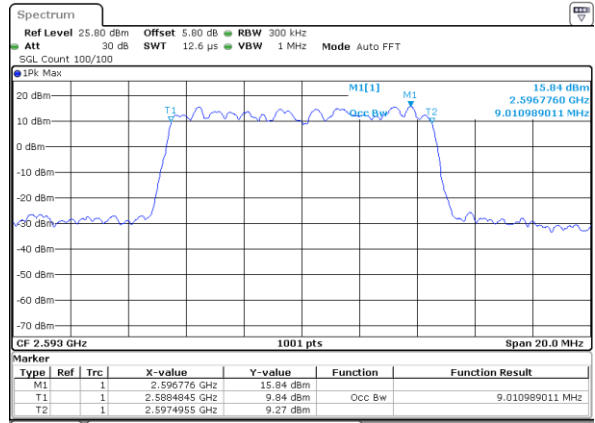
Date: 10 DEC 2019 21:35:35

Middle Channel / 10MHz / QPSK



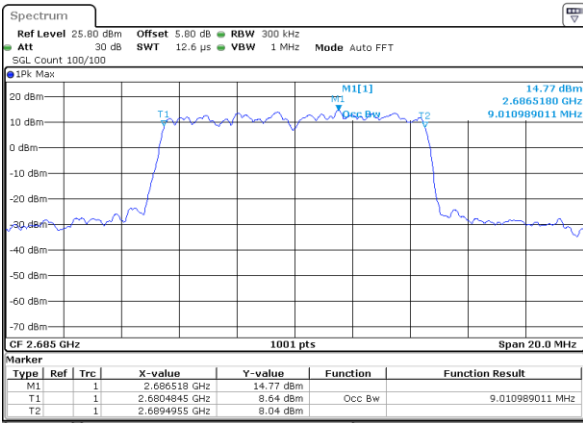
Date: 10 DEC 2019 21:36:05

Middle Channel / 10MHz / 16QAM



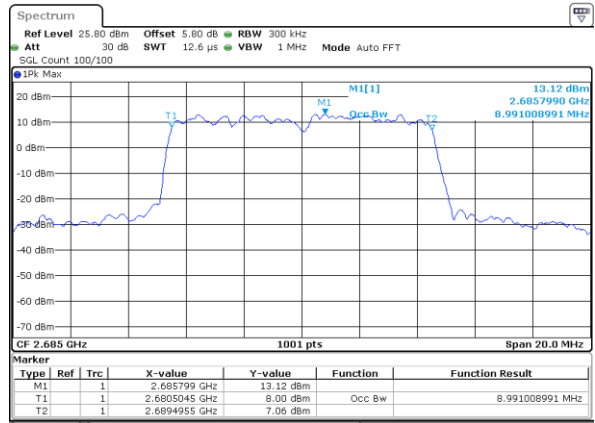
Date: 10 DEC 2019 21:36:15

Highest Channel / 10MHz / QPSK



Date: 10 DEC 2019 21:36:45

Highest Channel / 10MHz / 16QAM

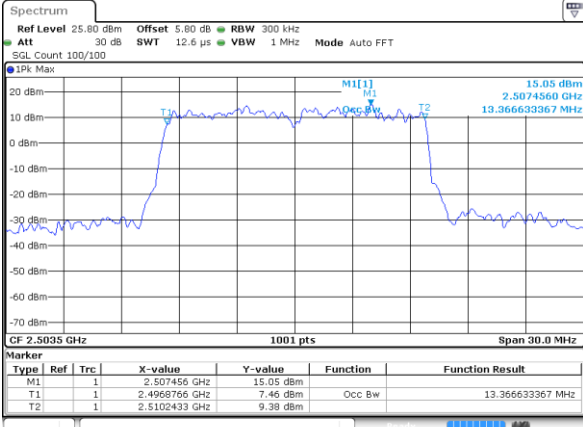


Date: 10 DEC 2019 21:36:55



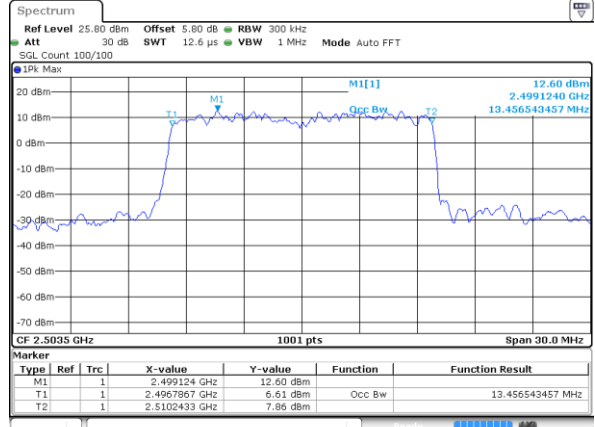
LTE Band 41

Lowest Channel / 15MHz / QPSK



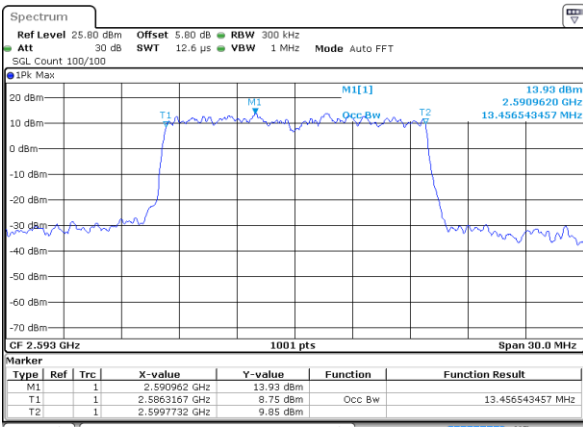
Date: 10 DEC 2019 21:37:25

Lowest Channel / 15MHz / 16QAM



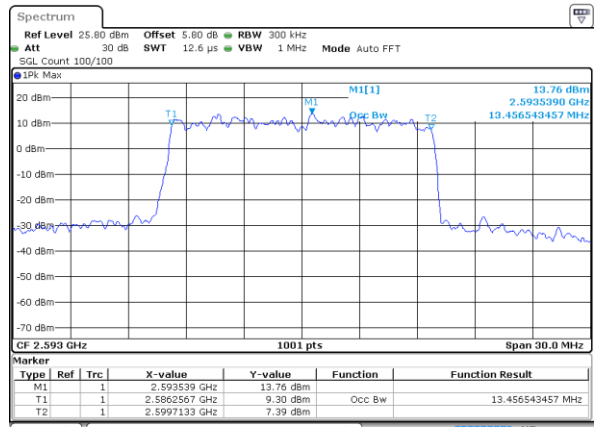
Date: 10 DEC 2019 21:37:35

Middle Channel / 15MHz / QPSK



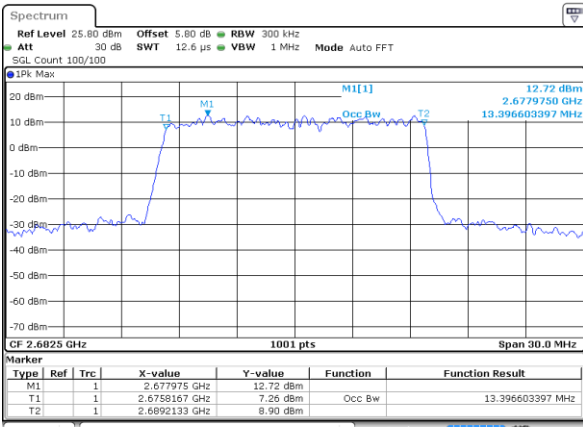
Date: 10 DEC 2019 21:38:05

Middle Channel / 15MHz / 16QAM



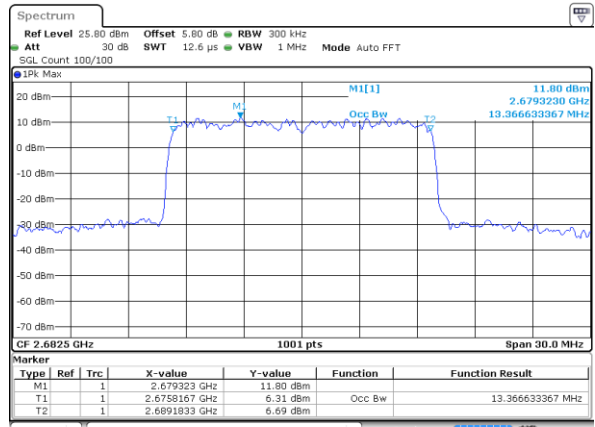
Date: 10 DEC 2019 21:38:15

Highest Channel / 15MHz / QPSK



Date: 10 DEC 2019 21:38:44

Highest Channel / 15MHz / 16QAM

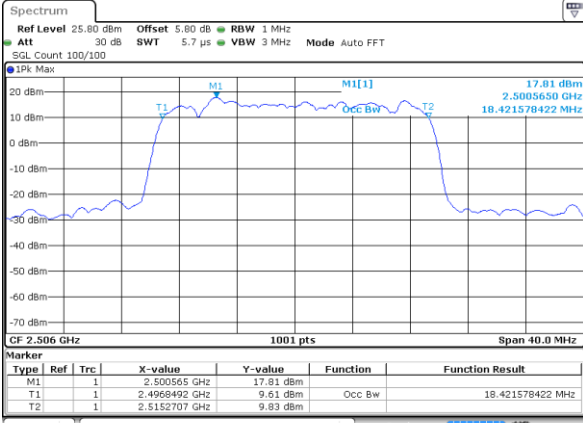


Date: 10 DEC 2019 21:38:54



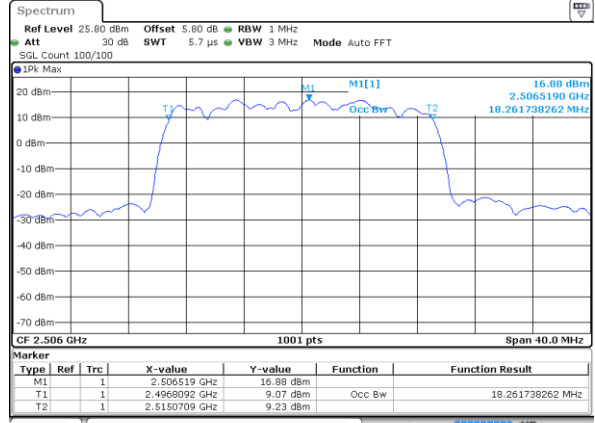
LTE Band 41

Lowest Channel / 20MHz / QPSK



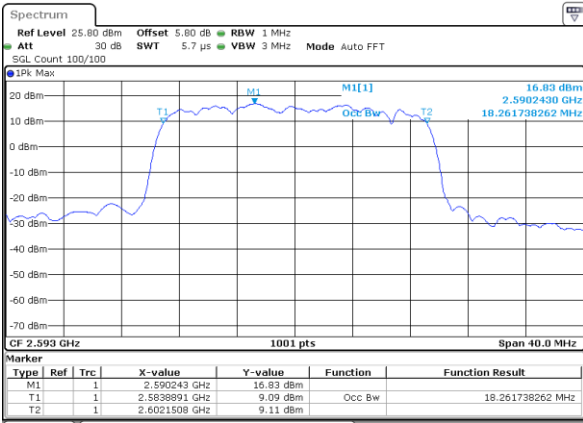
Date: 10 DEC 2019 21:39:24

Lowest Channel / 20MHz / 16QAM



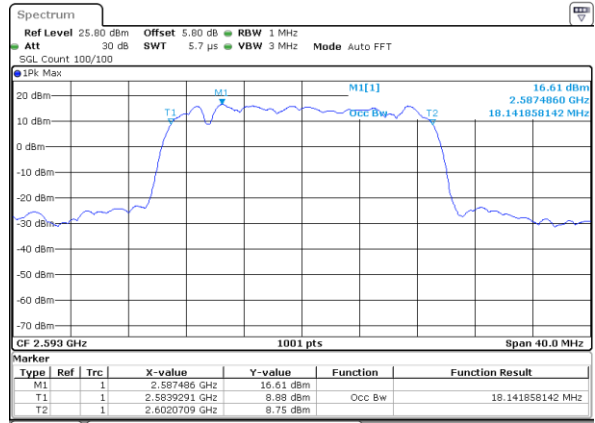
Date: 10 DEC 2019 21:39:34

Middle Channel / 20MHz / QPSK



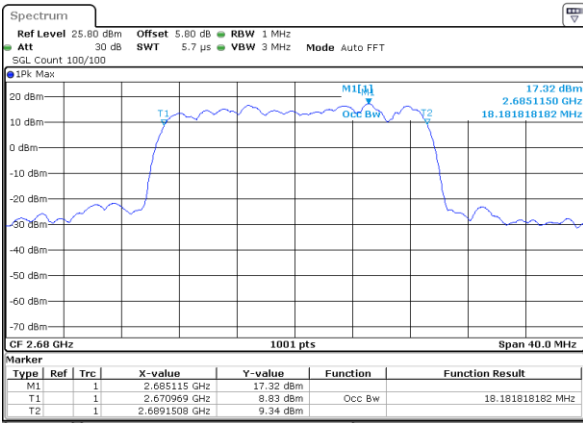
Date: 10 DEC 2019 21:40:04

Middle Channel / 20MHz / 16QAM



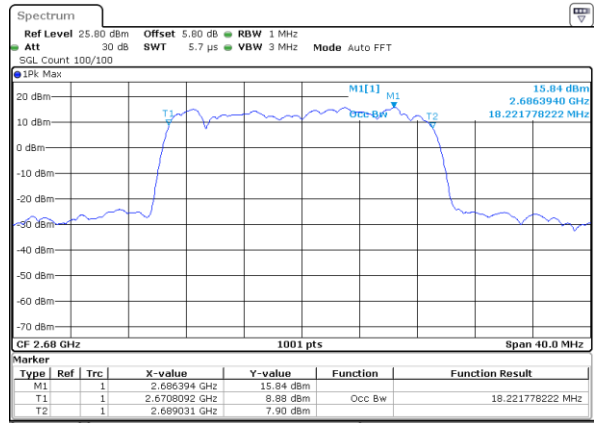
Date: 10 DEC 2019 21:40:14

Highest Channel / 20MHz / QPSK



Date: 10 DEC 2019 21:40:44

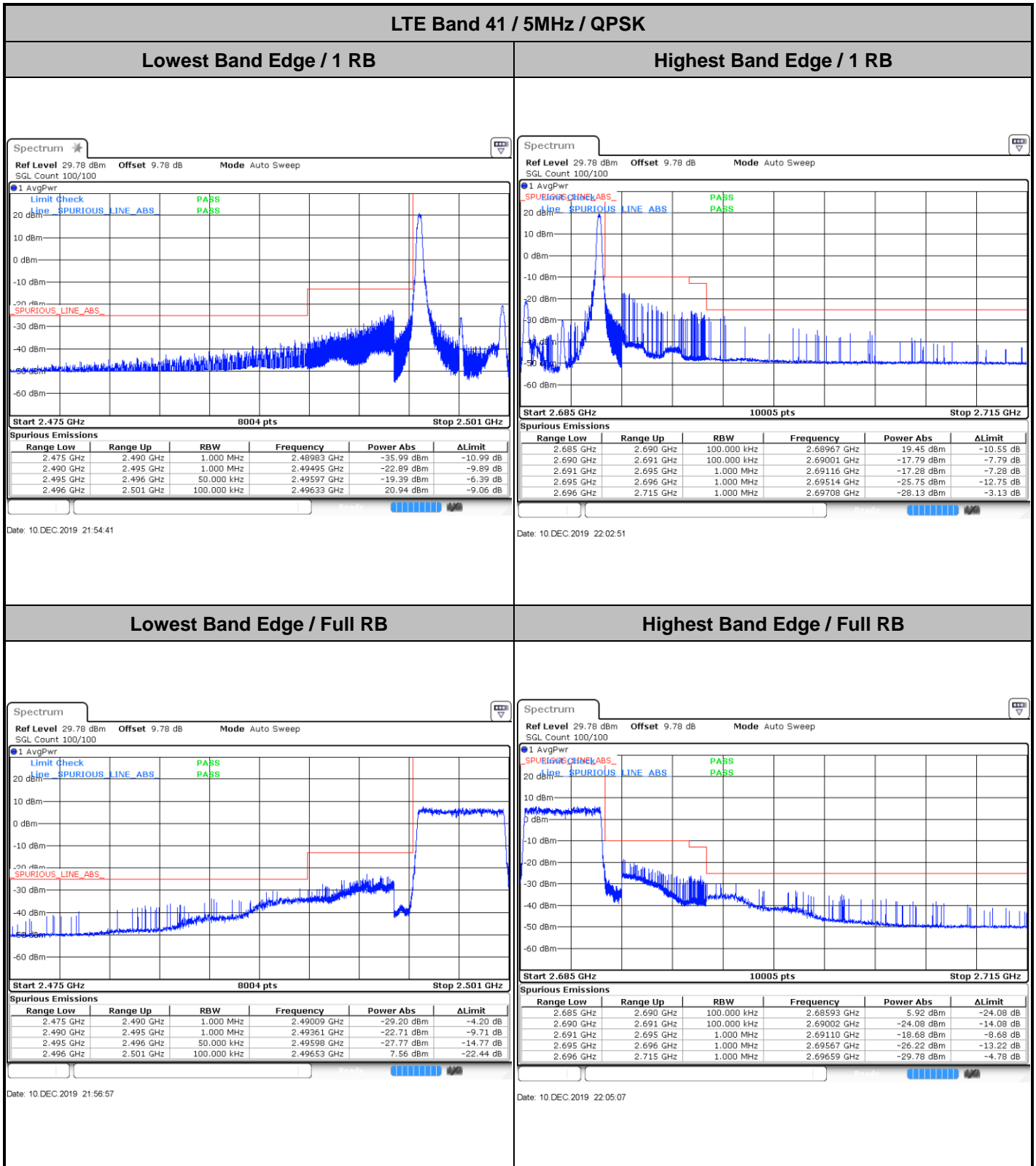
Highest Channel / 20MHz / 16QAM



Date: 10 DEC 2019 21:40:54



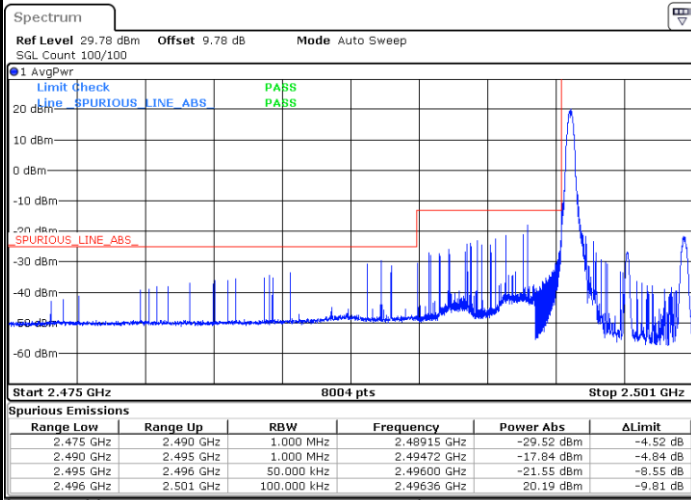
Conducted Band Edge





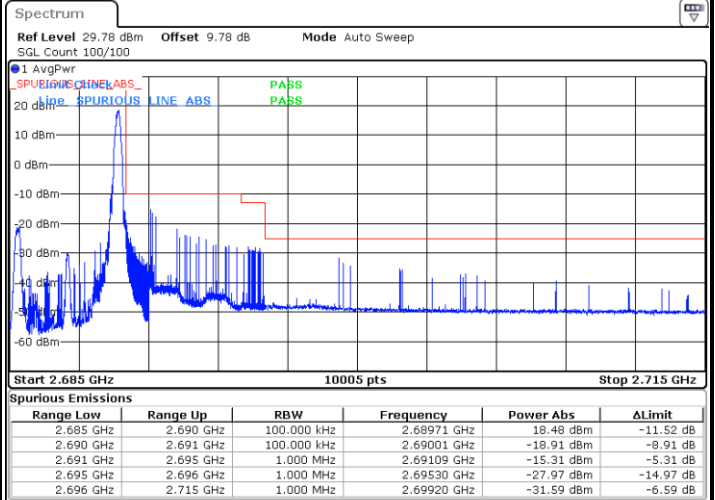
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



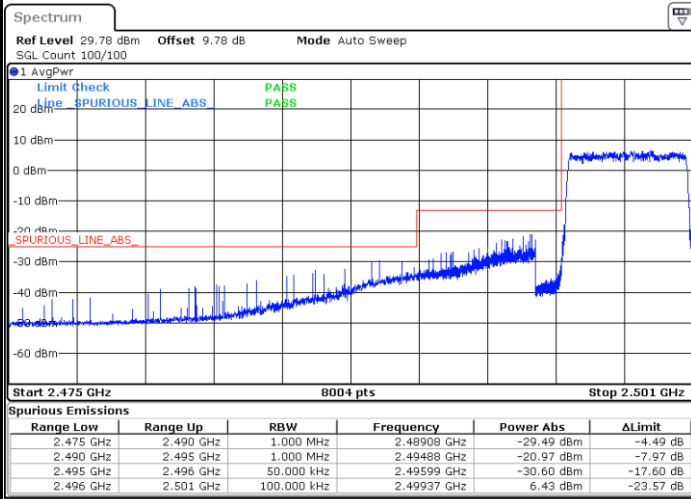
Date: 10 DEC 2019 22:52:41

Highest Band Edge / 1 RB



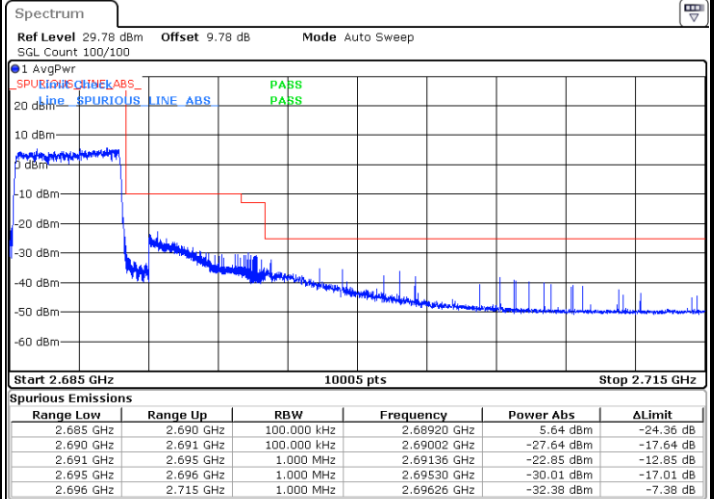
Date: 10 DEC 2019 22:03:59

Lowest Band Edge / Full RB



Date: 10 DEC 2019 21:58:05

Highest Band Edge / Full RB

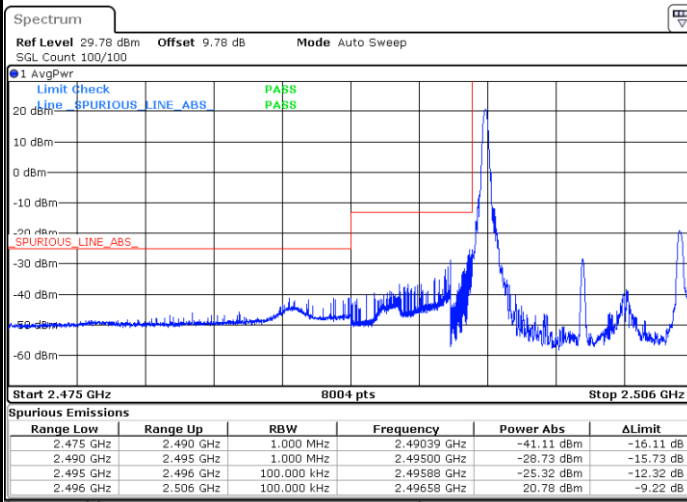


Date: 10 DEC 2019 22:06:15



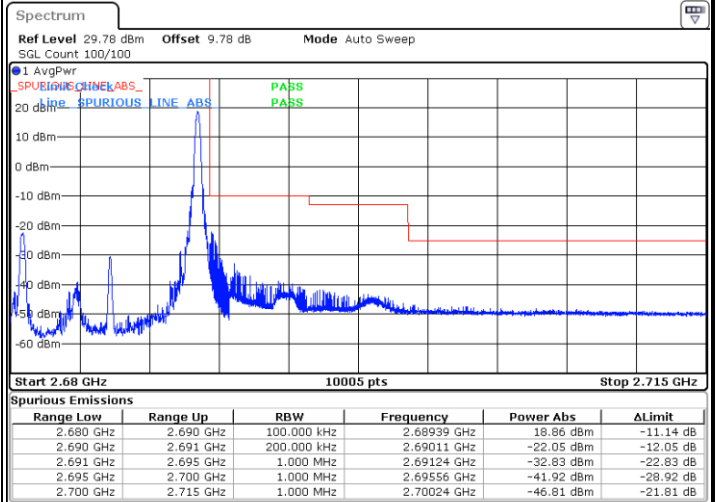
LTE Band 41 / 10MHz / QPSK

Lowest Band Edge / 1 RB



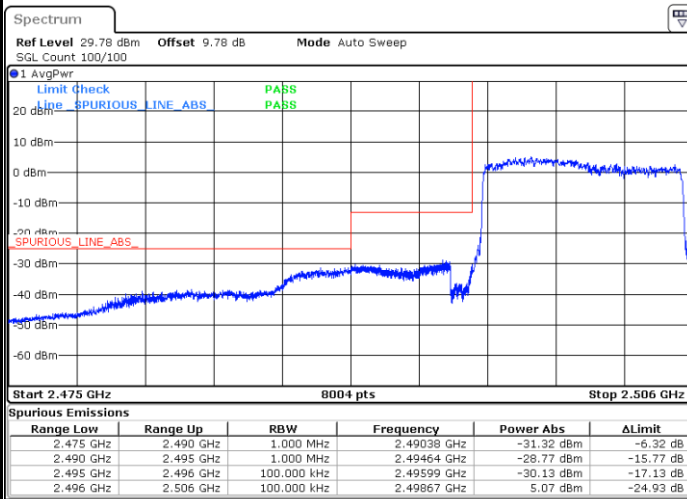
Date: 10 DEC 2019 22:09:12

Highest Band Edge / 1 RB



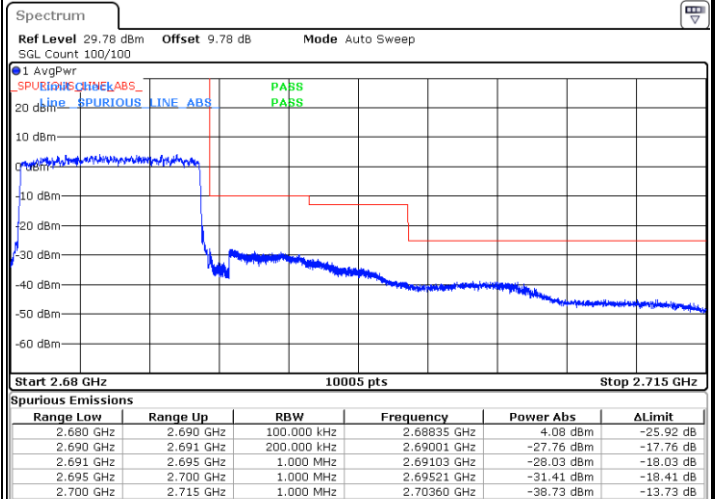
Date: 10 DEC 2019 22:17:22

Lowest Band Edge / Full RB



Date: 10 DEC 2019 22:11:28

Highest Band Edge / Full RB

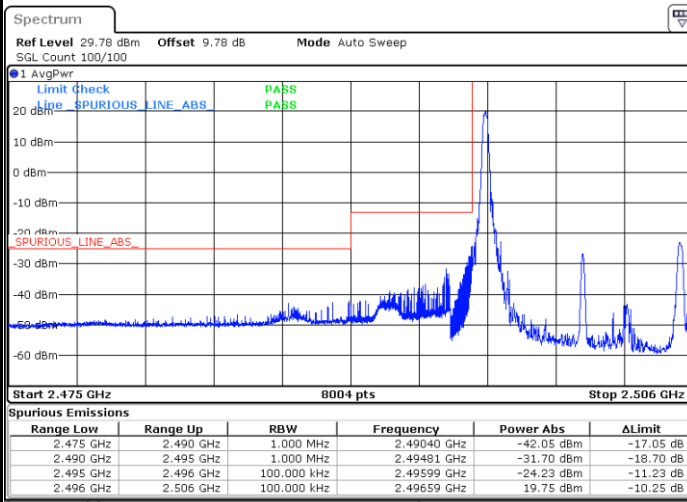


Date: 10 DEC 2019 22:19:38



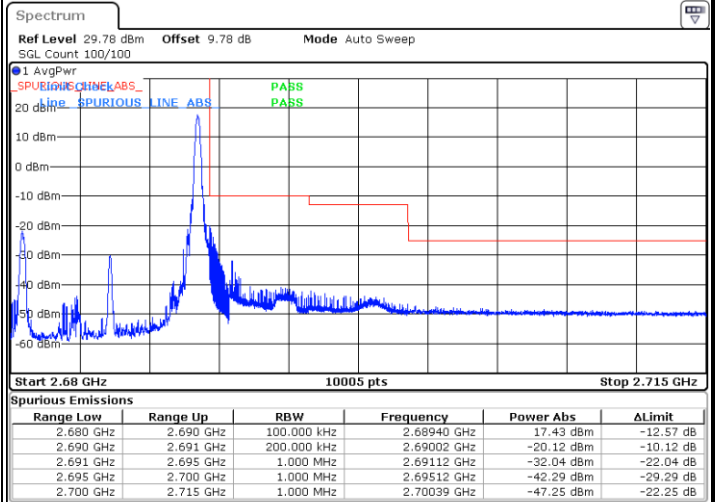
LTE Band 41 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



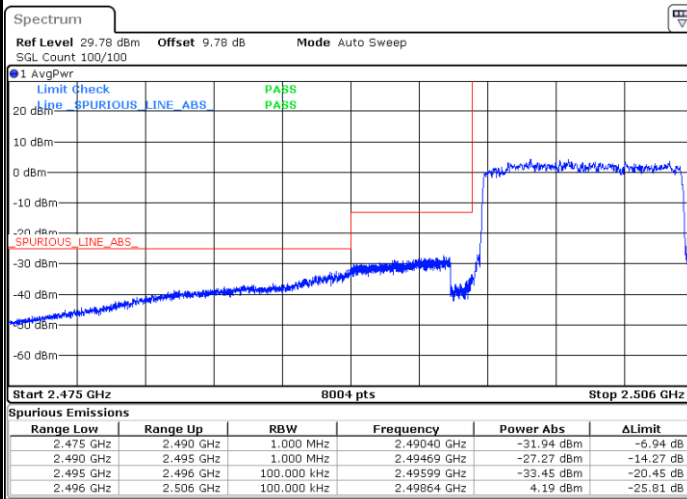
Date: 10 DEC 2019 22:10:20

Highest Band Edge / 1 RB



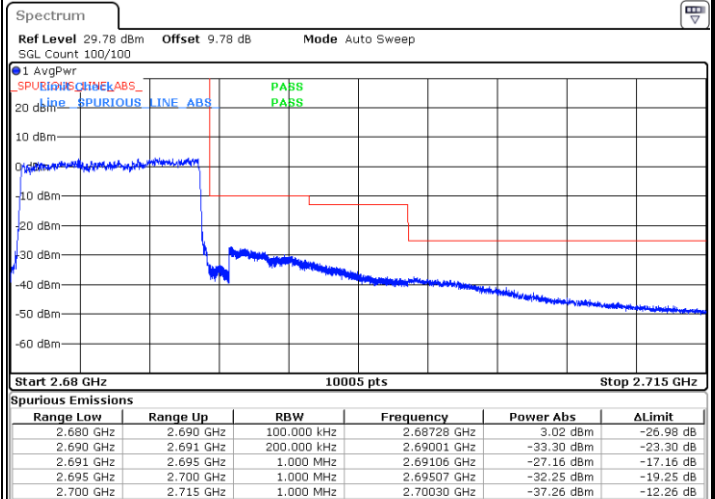
Date: 10 DEC 2019 22:18:30

Lowest Band Edge / Full RB



Date: 10 DEC 2019 22:12:36

Highest Band Edge / Full RB

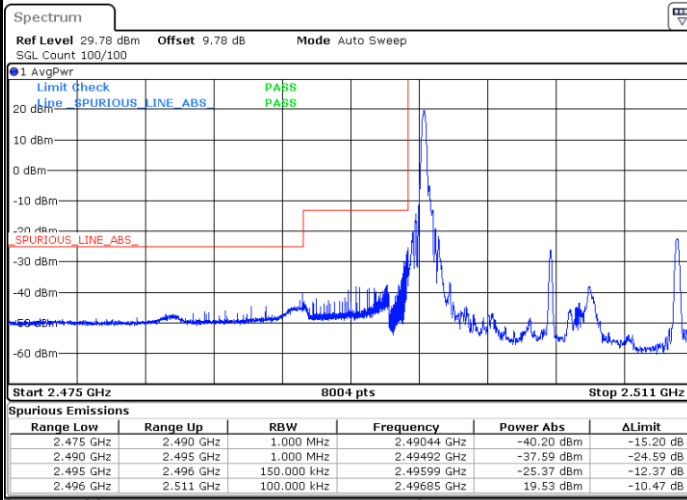


Date: 10 DEC 2019 22:20:46



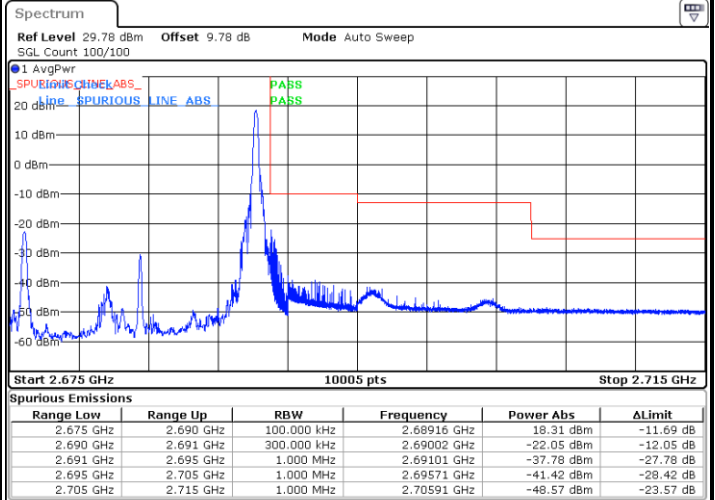
LTE Band 41 / 15MHz / QPSK

Lowest Band Edge / 1 RB



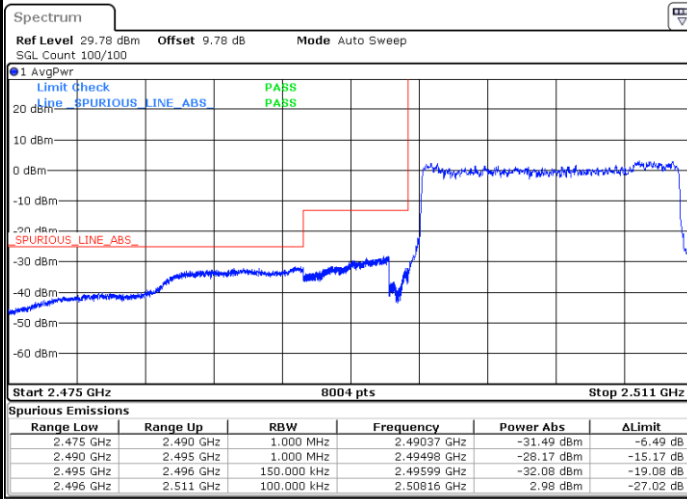
Date: 10 DEC 2019 22:23:43

Highest Band Edge / 1 RB



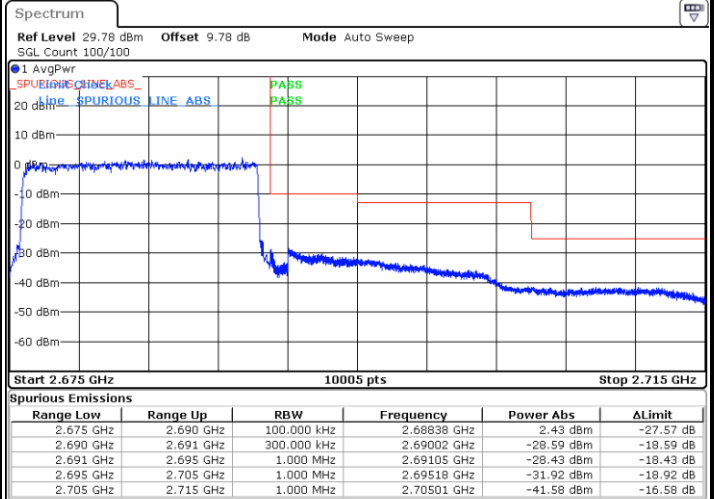
Date: 10 DEC 2019 22:31:54

Lowest Band Edge / Full RB



Date: 10 DEC 2019 22:25:59

Highest Band Edge / Full RB

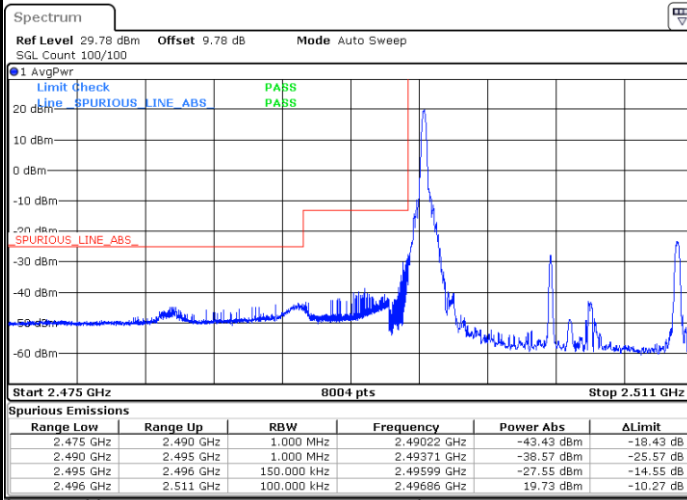


Date: 10 DEC 2019 22:34:09



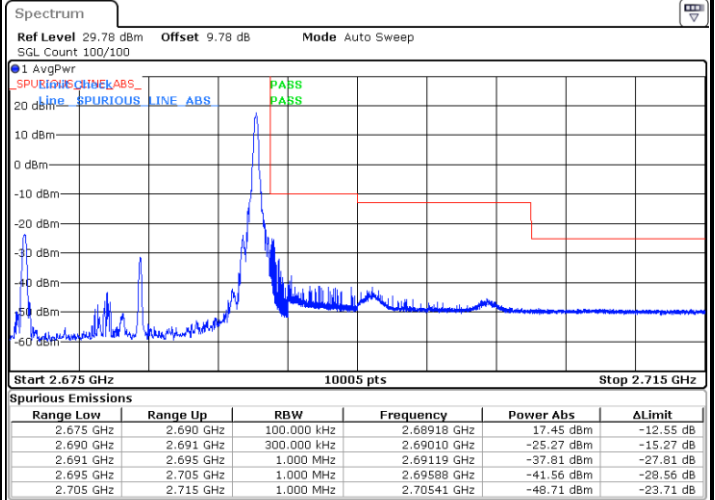
LTE Band 41 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



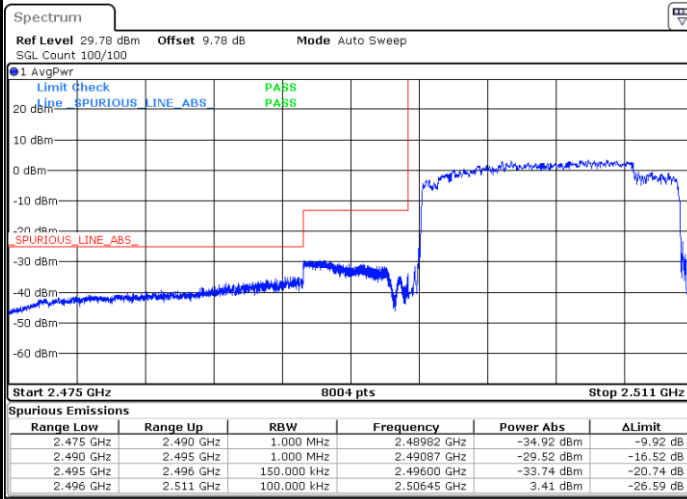
Date: 10 DEC 2019 22:24:51

Highest Band Edge / 1 RB



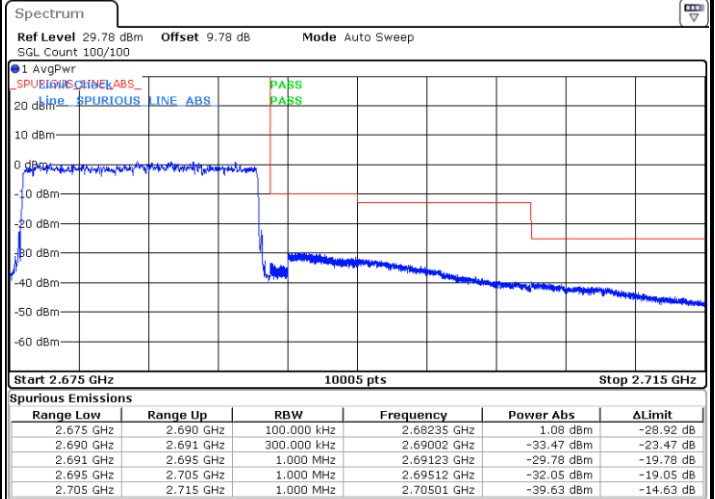
Date: 10 DEC 2019 22:33:01

Lowest Band Edge / Full RB



Date: 10 DEC 2019 22:27:07

Highest Band Edge / Full RB

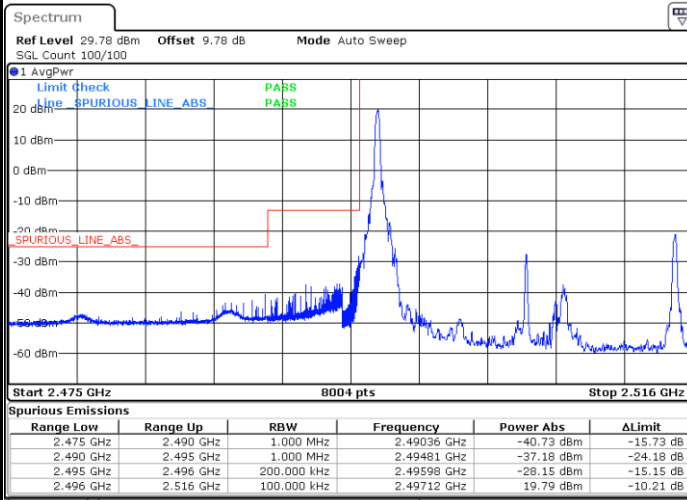


Date: 10 DEC 2019 22:35:17



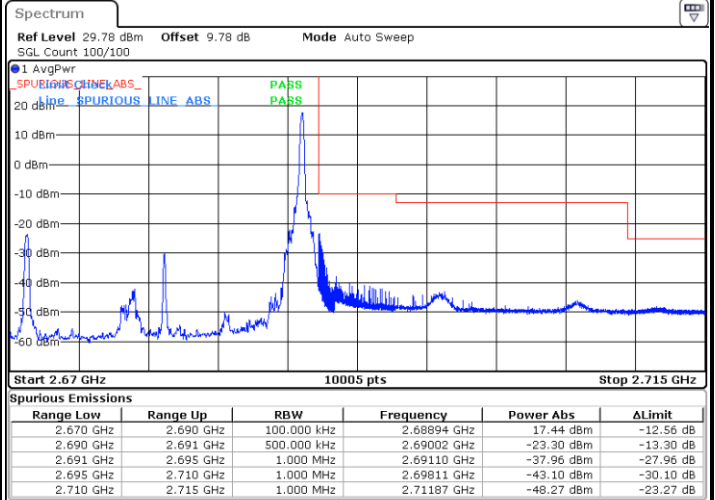
LTE Band 41 / 20MHz / QPSK

Lowest Band Edge / 1 RB



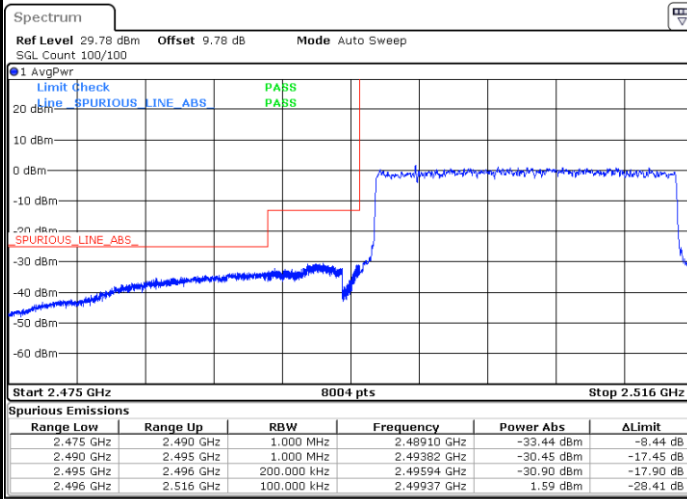
Date: 10 DEC 2019 22:38:14

Highest Band Edge / 1 RB



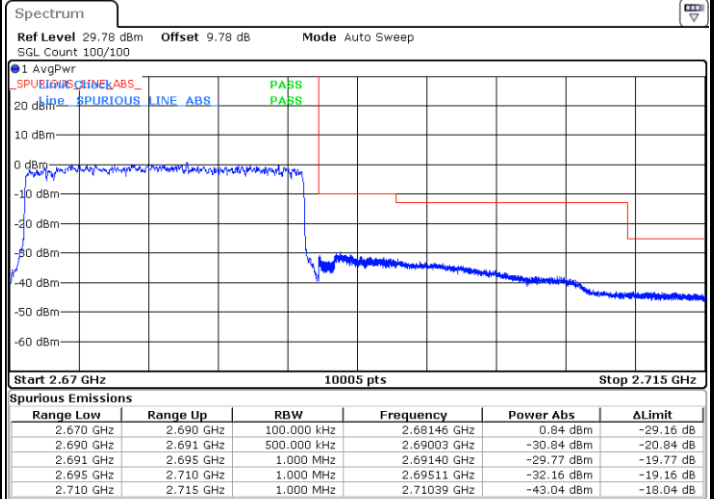
Date: 10 DEC 2019 22:46:24

Lowest Band Edge / Full RB



Date: 10 DEC 2019 22:40:30

Highest Band Edge / Full RB

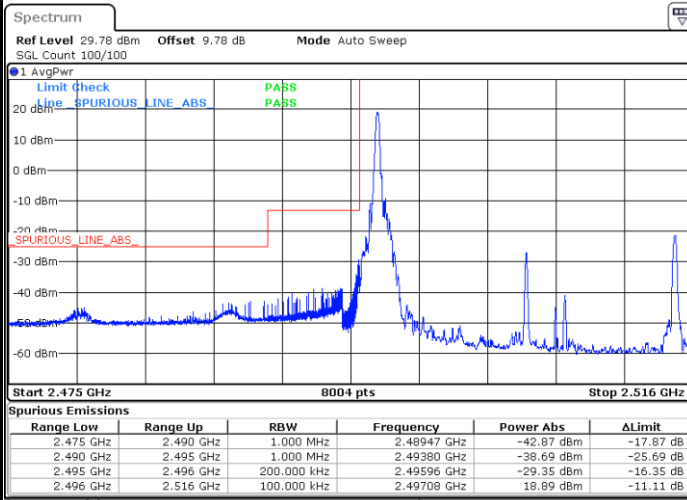


Date: 10 DEC 2019 22:49:48



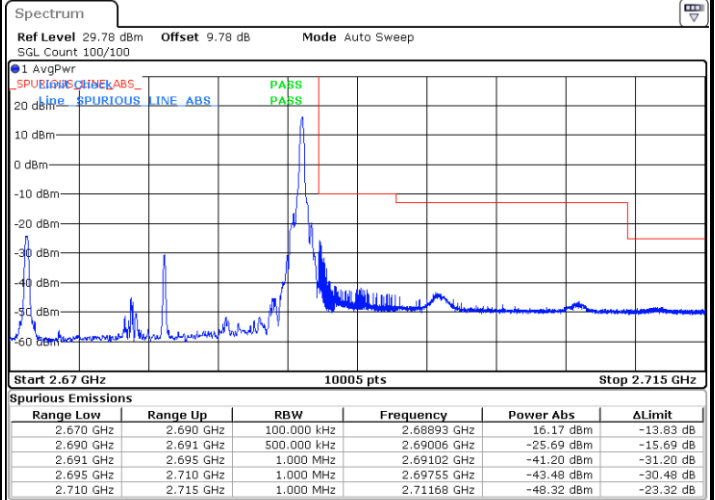
LTE Band 41 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



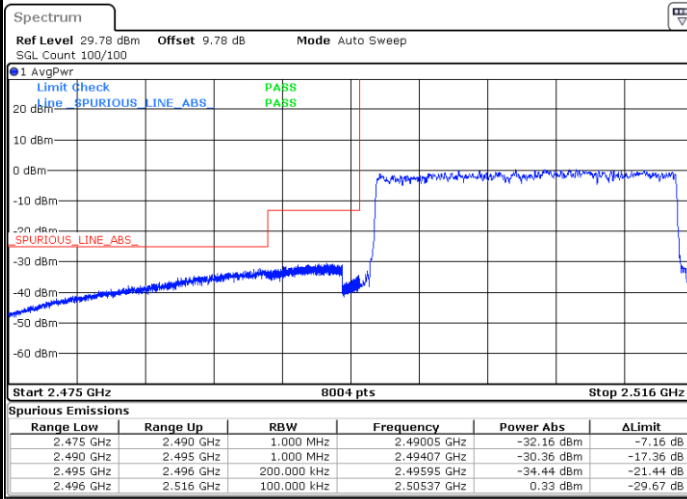
Date: 10 DEC 2019 22:39:22

Highest Band Edge / 1 RB



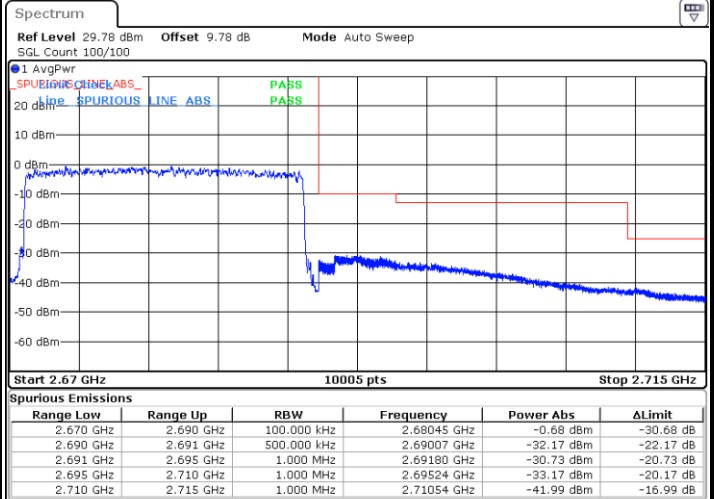
Date: 10 DEC 2019 22:47:32

Lowest Band Edge / Full RB



Date: 10 DEC 2019 22:41:38

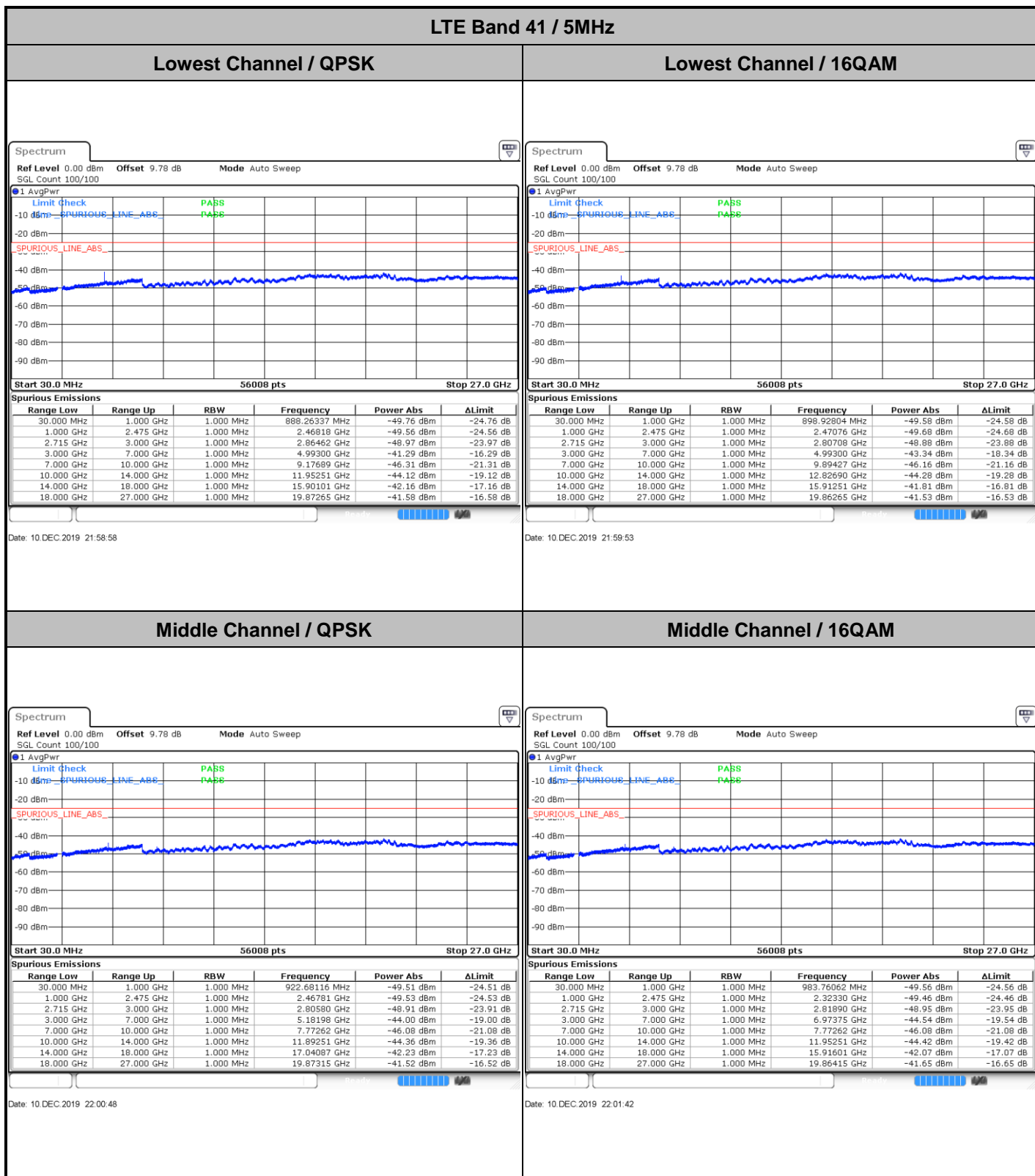
Highest Band Edge / Full RB



Date: 10 DEC 2019 22:48:40



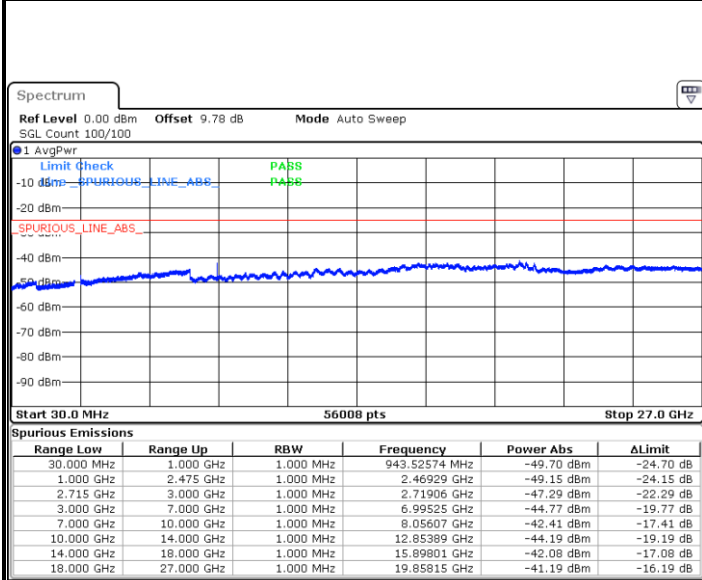
Conducted Spurious Emission





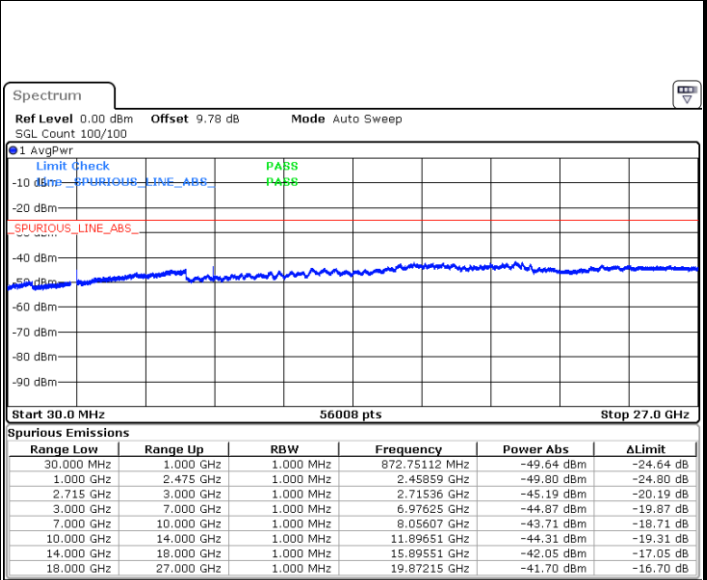
LTE Band 41 / 5MHz

Highest Channel / QPSK



Date: 10.DEC.2019 22:07:09

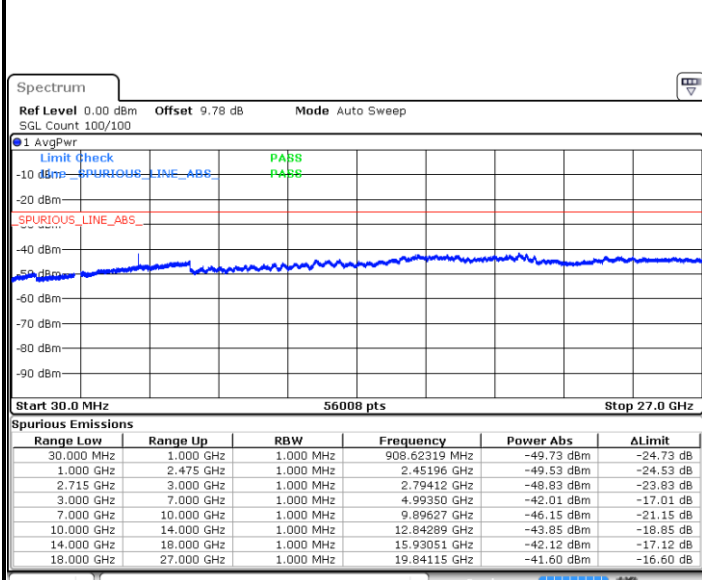
Highest Channel / 16QAM



Date: 10.DEC.2019 22:08:03

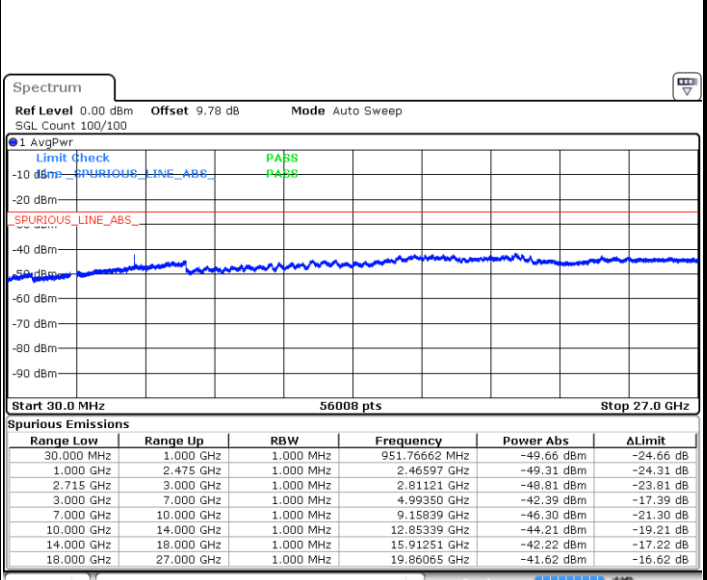
LTE Band 41 / 10MHz

Lowest Channel / QPSK



Date: 10.DEC.2019 22:13:29

Lowest Channel / 16QAM



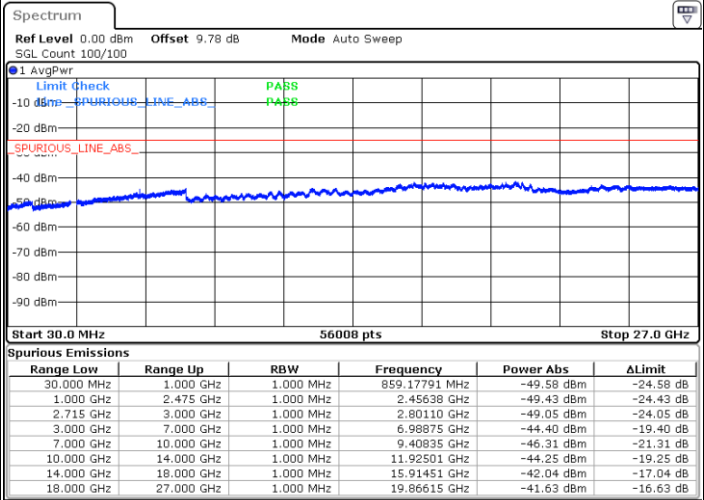
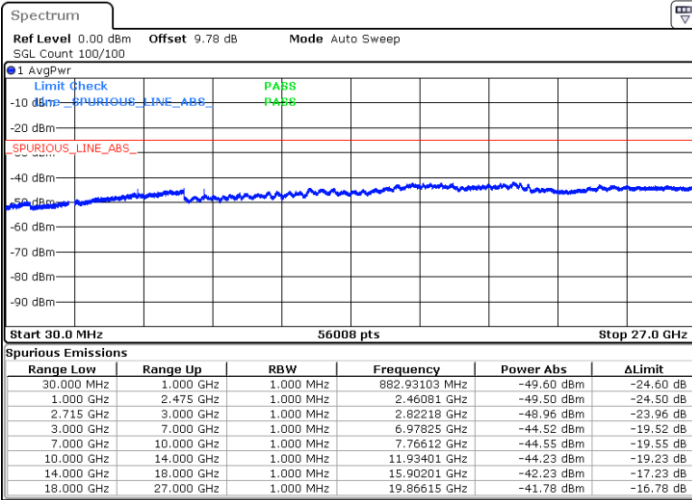
Date: 10.DEC.2019 22:14:24



LTE Band 41 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

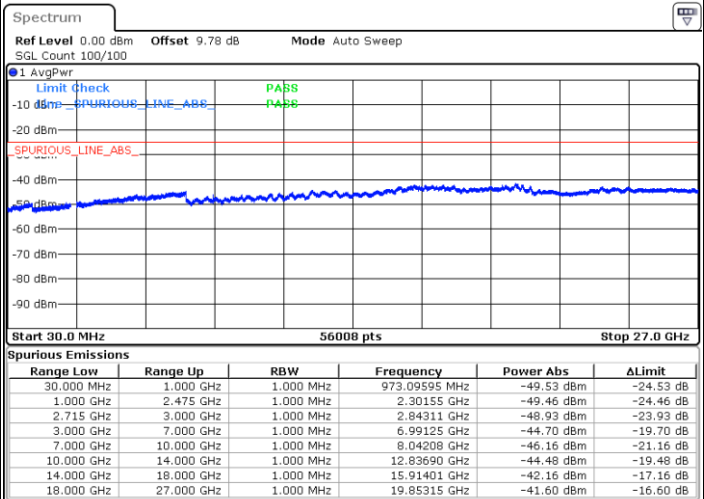
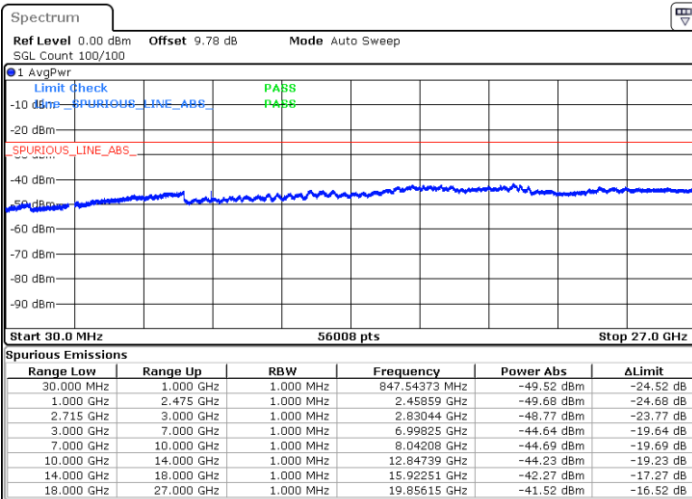


Date: 10.DEC.2019 22:15:18

Date: 10.DEC.2019 22:16:13

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 10.DEC.2019 22:21:40

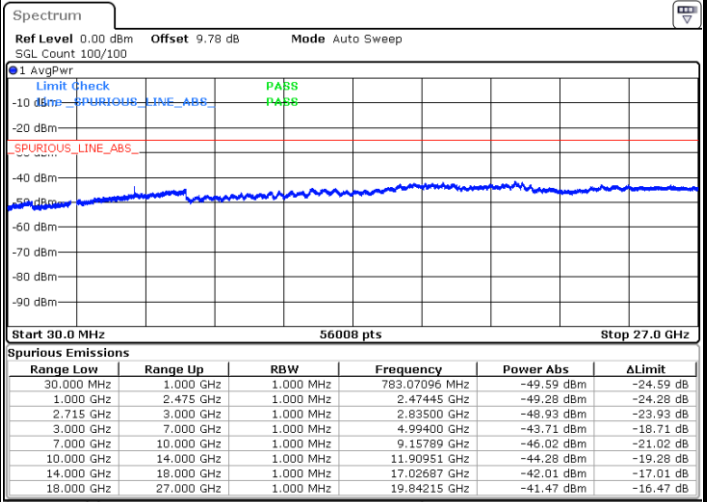
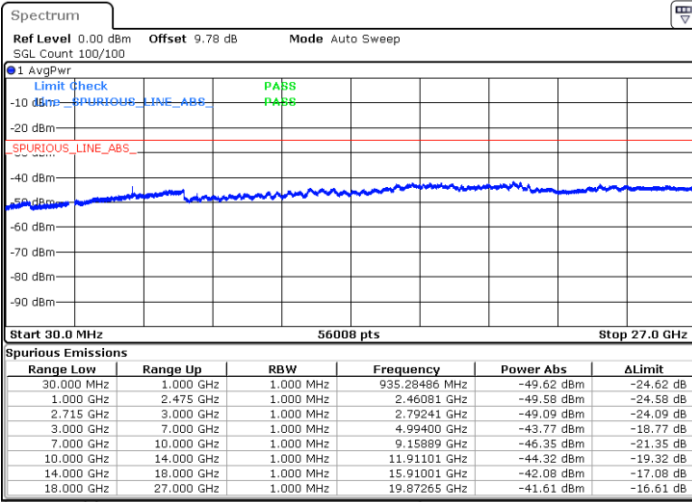
Date: 10.DEC.2019 22:22:34



LTE Band 41 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

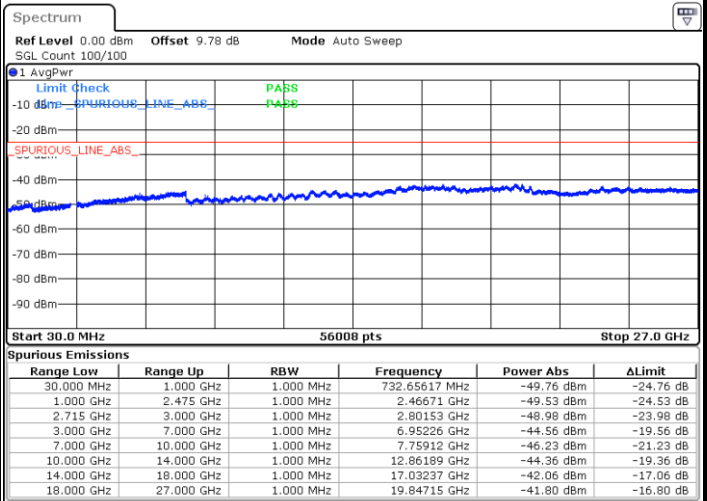
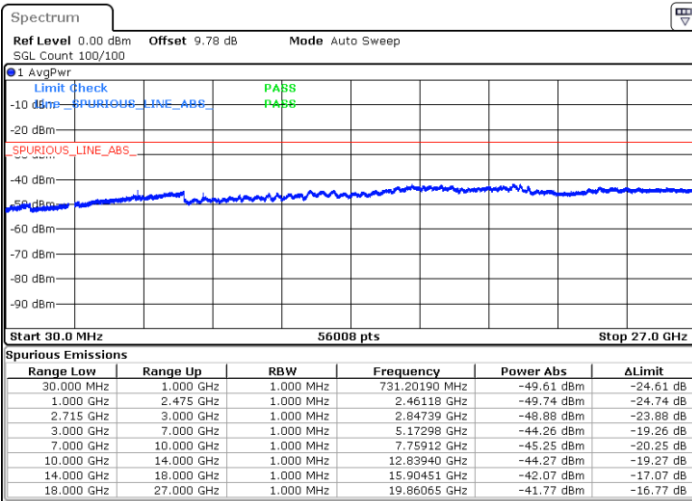


Date: 10.DEC.2019 22:28:00

Date: 10.DEC.2019 22:28:55

Middle Channel / QPSK

Middle Channel / 16QAM



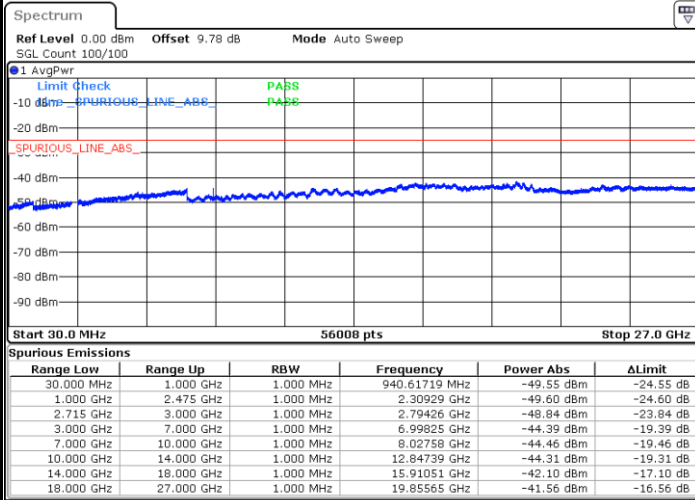
Date: 10.DEC.2019 22:29:50

Date: 10.DEC.2019 22:30:44



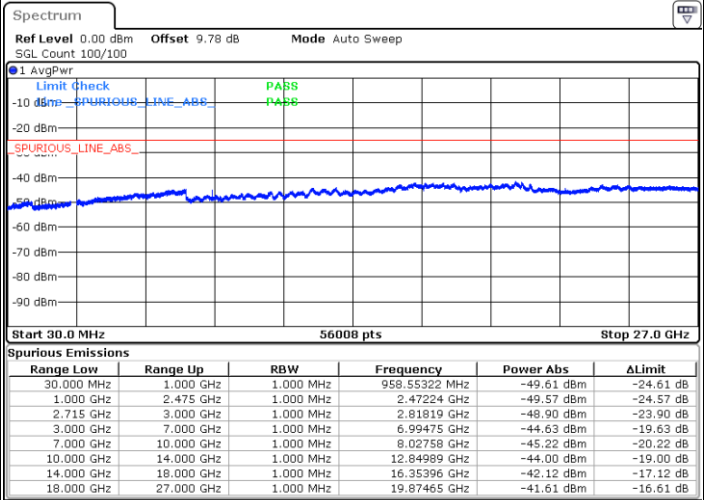
LTE Band 41 / 15MHz

Highest Channel / QPSK



Date: 10.DEC.2019 22:36:11

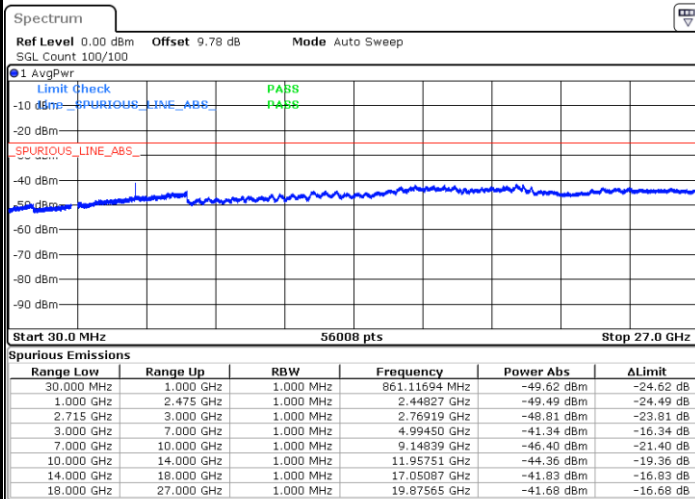
Highest Channel / 16QAM



Date: 10.DEC.2019 22:37:05

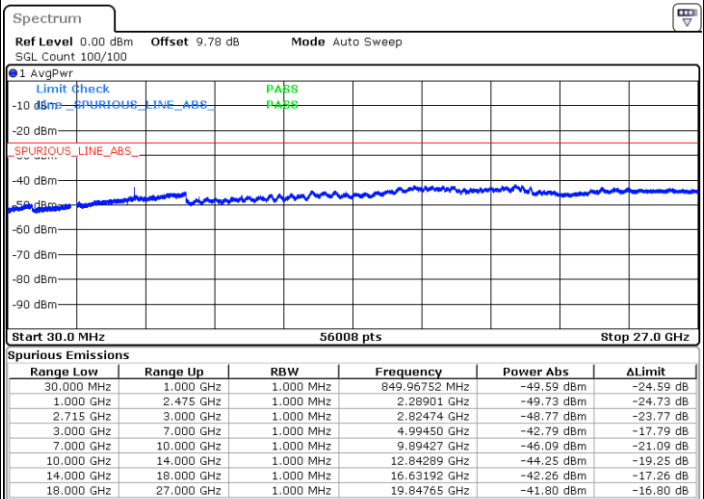
LTE Band 41 / 20MHz

Lowest Channel / QPSK



Date: 10.DEC.2019 22:42:31

Lowest Channel / 16QAM



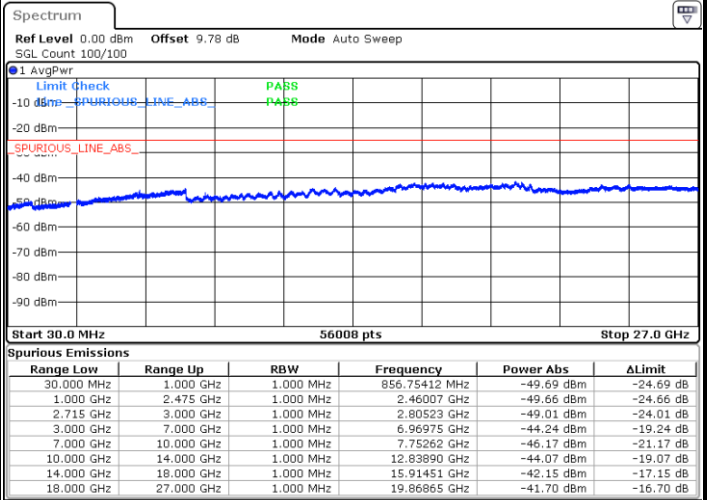
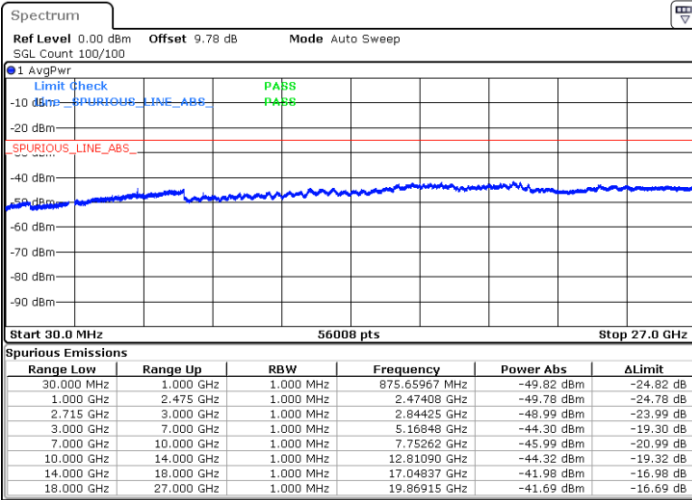
Date: 10.DEC.2019 22:43:26



LTE Band 41 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

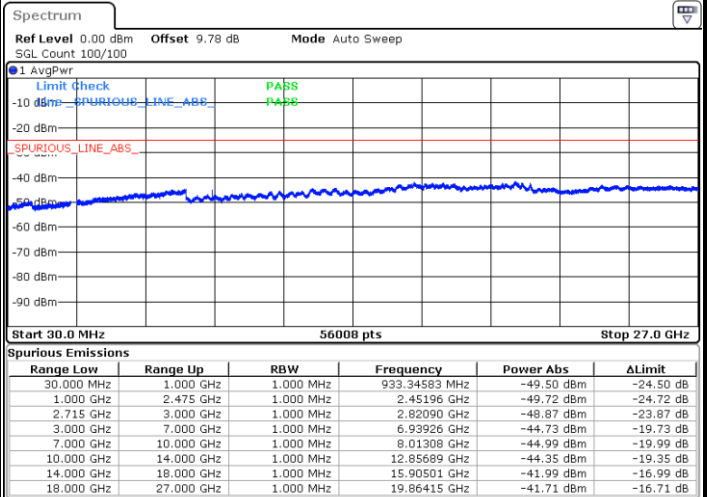
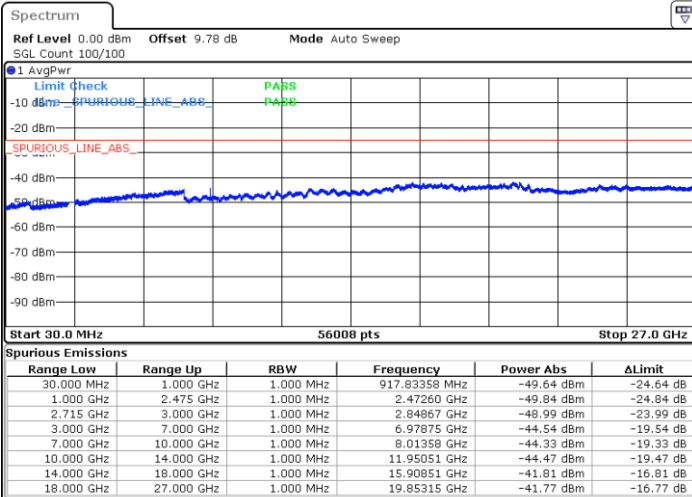


Date: 10.DEC.2019 22:44:20

Date: 10.DEC.2019 22:45:15

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 10.DEC.2019 22:50:41

Date: 10.DEC.2019 22:51:36



Frequency Stability

Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0023	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0021	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0020	
-10	Normal Voltage	0.0022	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0016	
20	Normal Voltage	0.0005	
20	Battery End Point	0.0003	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 7 CA

26dB Bandwidth

Mode	LTE Band 7 CA : 26dB BW(MHz)			
QPSK				
BW	10MHz+20MHz	15MHz+5MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	29.85	-	25.275	30.45
Middle CH	29.85	-	25.325	30.45
Highest CH	29.91	-	25.375	30.629
BW	15MHz+20MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	34.825	30.09	34.825	39.88
Middle CH	34.895	30.09	35.035	39.96
Highest CH	34.825	30.33	34.895	39.8

Mode	LTE Band 7 CA : 26dB BW(MHz)			
16QAM				
BW	10MHz+20MHz	15MHz+5MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	29.79	-	25.225	30.629
Middle CH	29.97	-	25.275	30.509
Highest CH	29.85	-	25.225	30.509
BW	15MHz+20MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	34.685	29.97	34.895	39.8
Middle CH	34.825	29.97	35.035	39.88
Highest CH	34.895	30.15	34.965	39.88

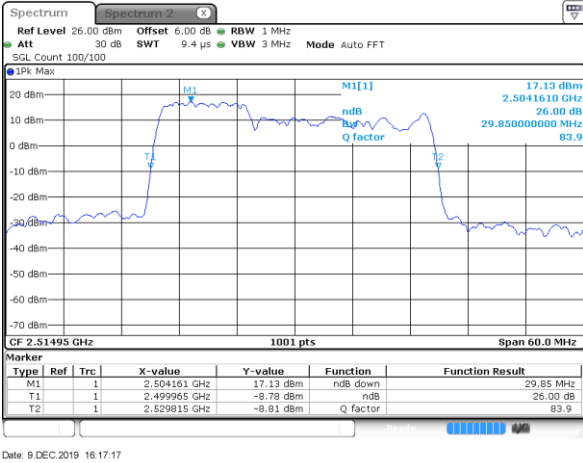


LTE Band 7 CA

QPSK

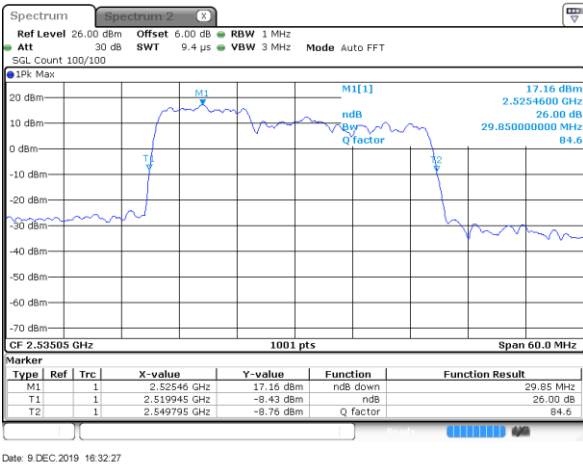
Lowest Channel / 10MHz+20MHz

-



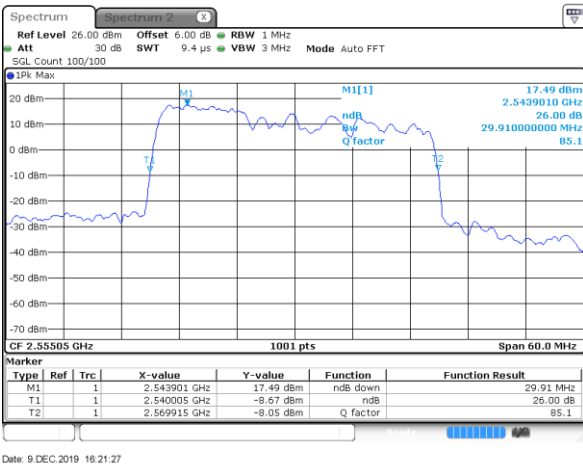
Middle Channel / 10MHz+20MHz

-



Highest Channel / 10MHz+20MHz

-

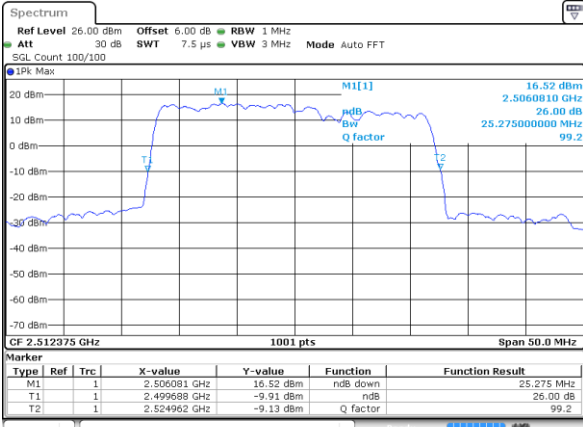




LTE Band 7 CA

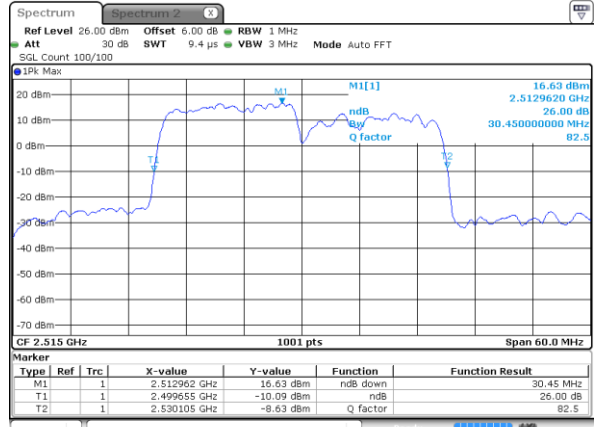
QPSK

Lowest Channel / 15MHz+10MHz



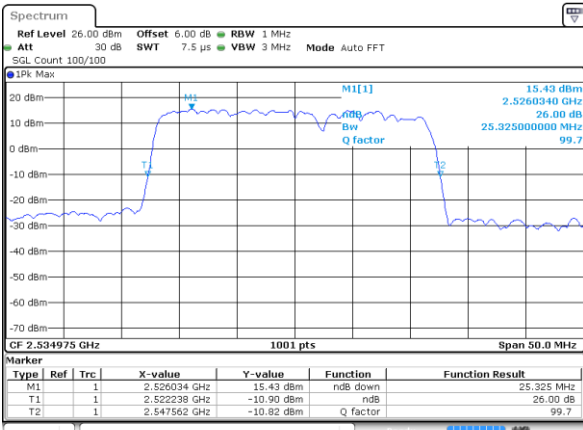
Date: 10 DEC 2019 14:40:56

Lowest Channel / 15MHz+15MHz



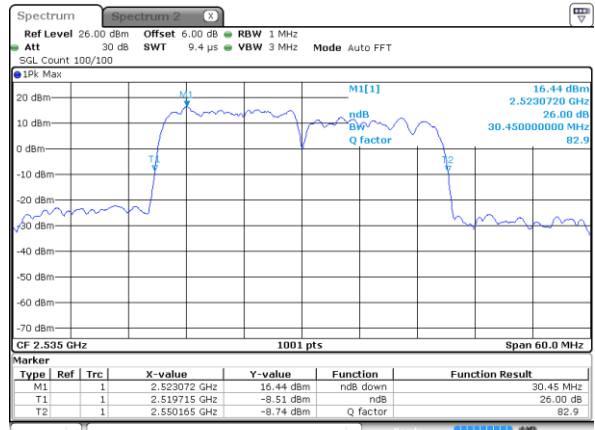
Date: 9 DEC 2019 19:15:07

Middle Channel / 15MHz+10MHz



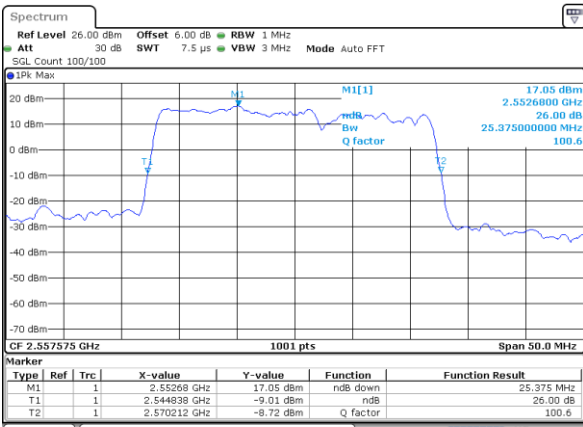
Date: 10 DEC 2019 14:52:26

Middle Channel / 15MHz+15MHz



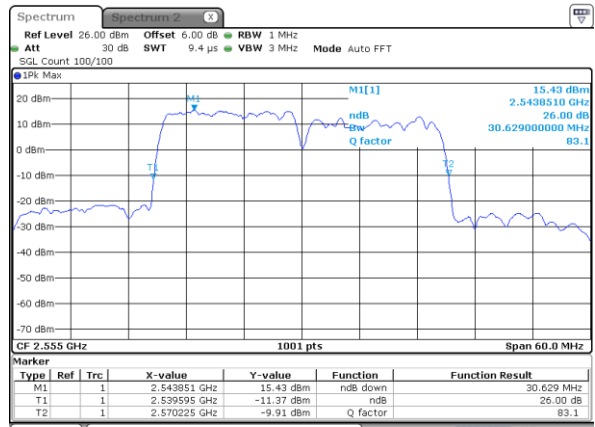
Date: 9 DEC 2019 19:41:07

Highest Channel / 15MHz+10MHz



Date: 10 DEC 2019 14:53:47

Highest Channel / 15MHz+15MHz



Date: 9 DEC 2019 19:44:46