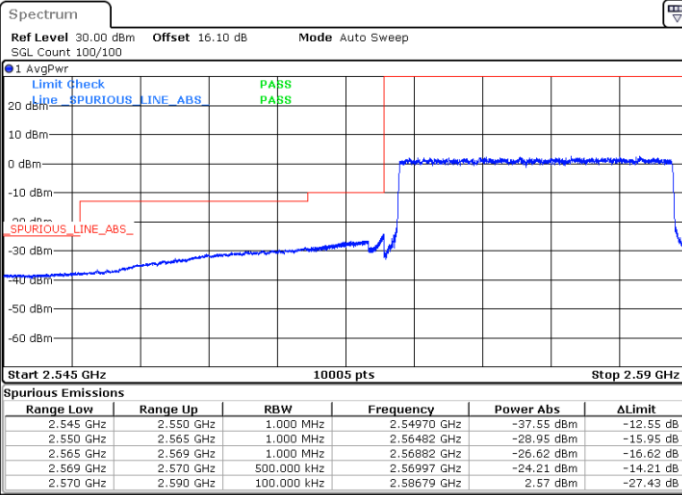




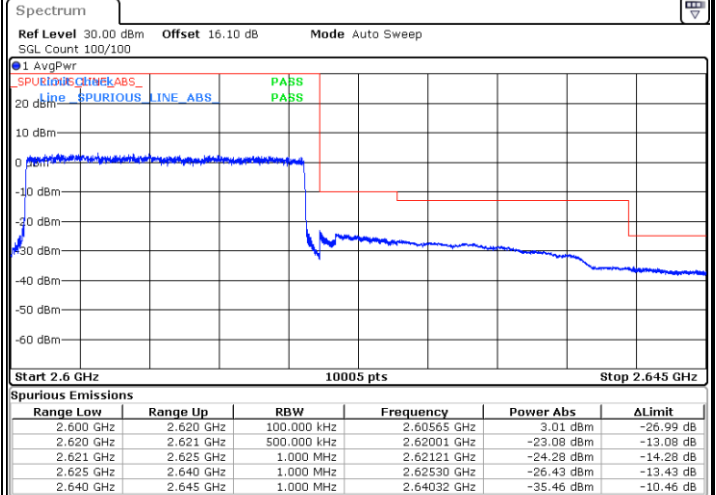
LTE Band 38 / 20MHz / QPSK

Lowest Band Edge / Full RB



Date: 24.MAY.2023 11:16:36

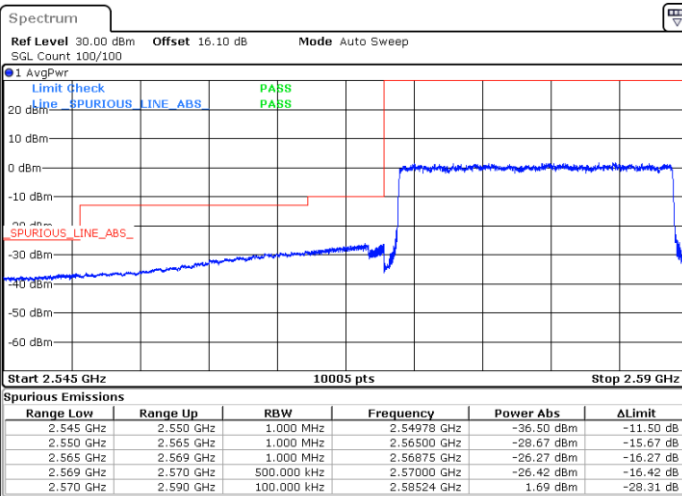
Highest Band Edge / Full RB



Date: 24.MAY.2023 11:18:35

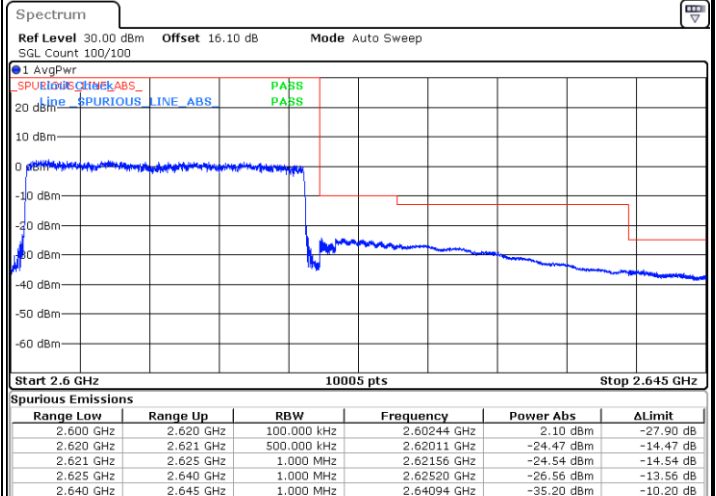
LTE Band 38 / 20MHz / 16QAM

Lowest Band Edge / Full RB



Date: 24.MAY.2023 11:17:35

Highest Band Edge / Full RB



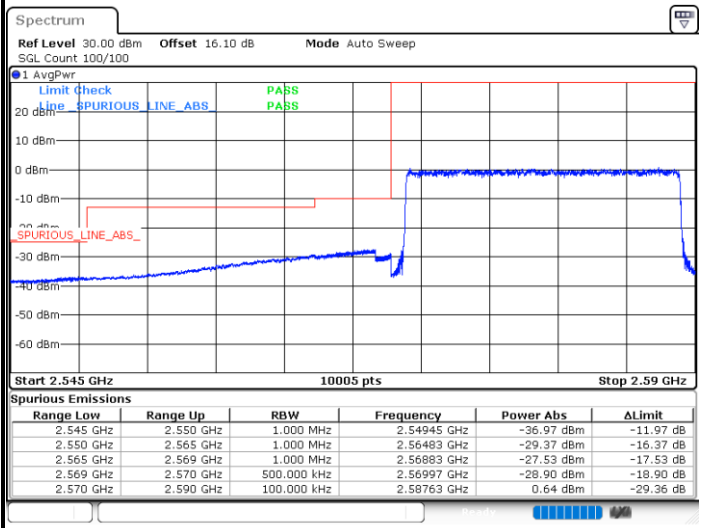
Date: 24.MAY.2023 11:19:34



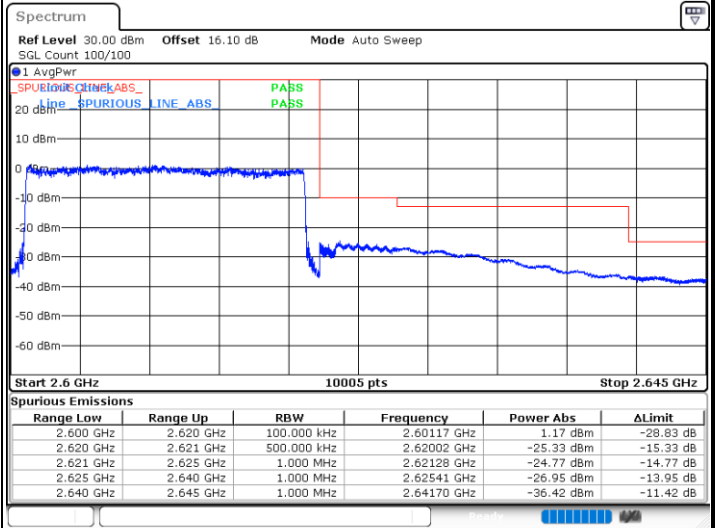
LTE Band 38 / 20MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 24.MAY.2023 11:20:33



Date: 24.MAY.2023 11:21:32

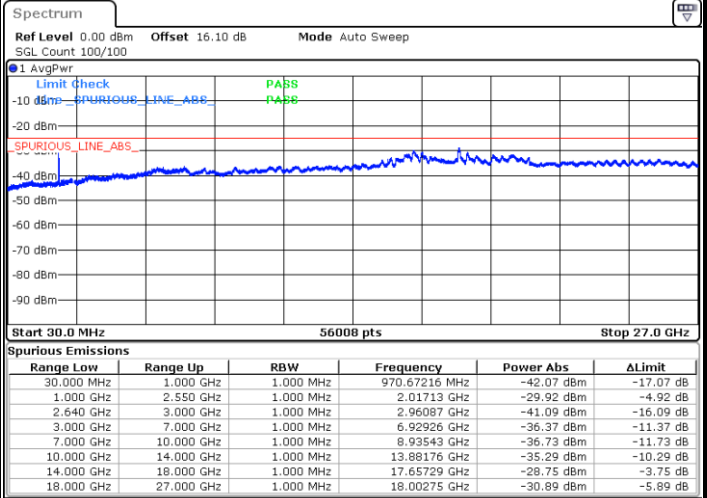
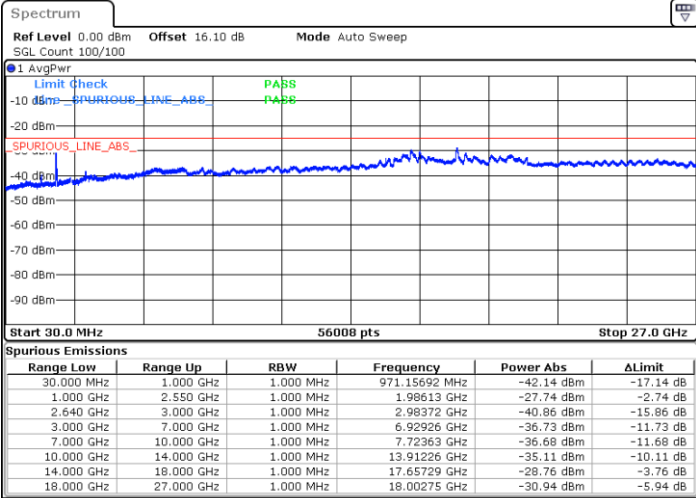


Conducted Spurious Emission

LTE Band 38 / 5MHz

Lowest Channel / QPSK

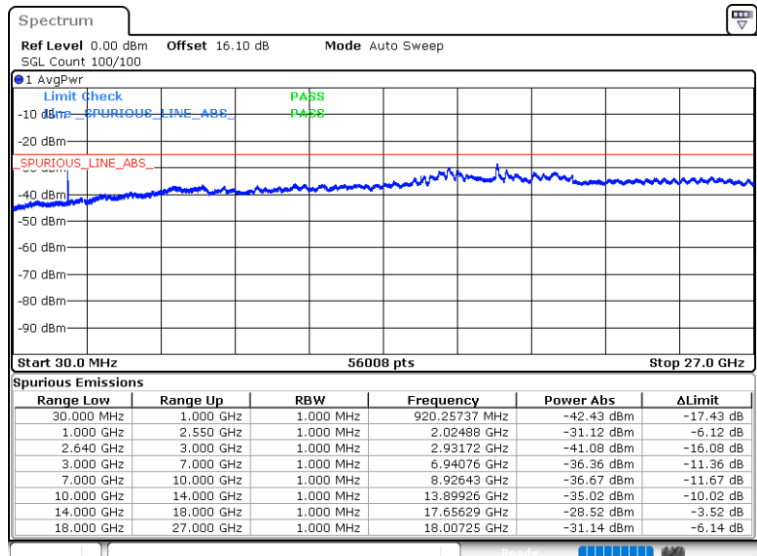
Middle Channel / QPSK



Date: 24.MAY.2023 11:24:41

Date: 24.MAY.2023 11:25:50

Highest Channel / QPSK



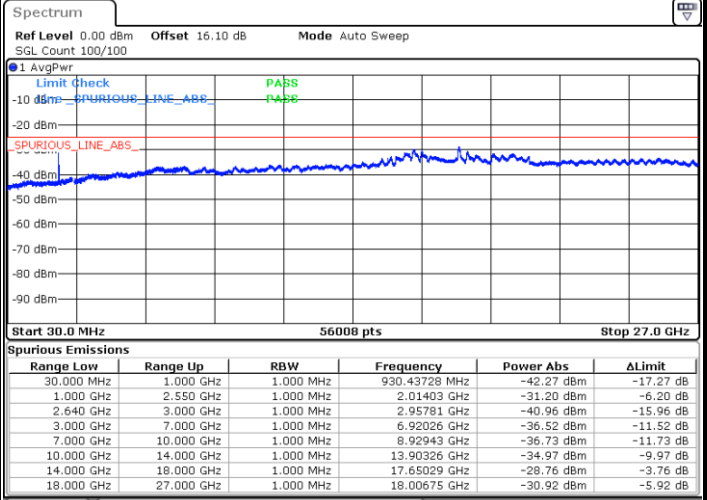
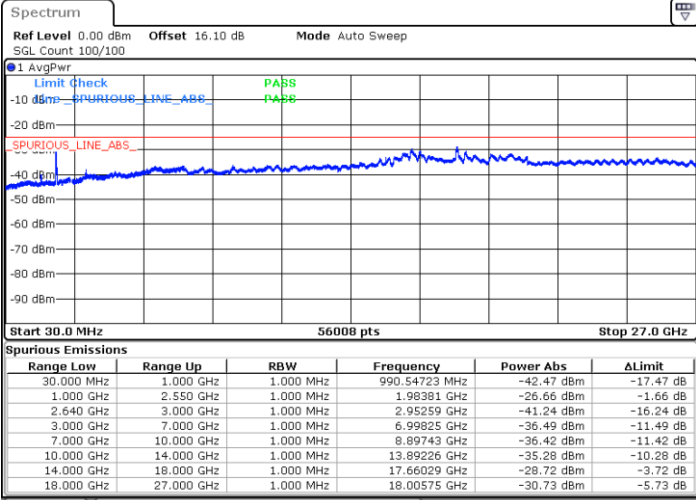
Date: 24.MAY.2023 11:26:59



LTE Band 38 / 10MHz

Lowest Channel / QPSK

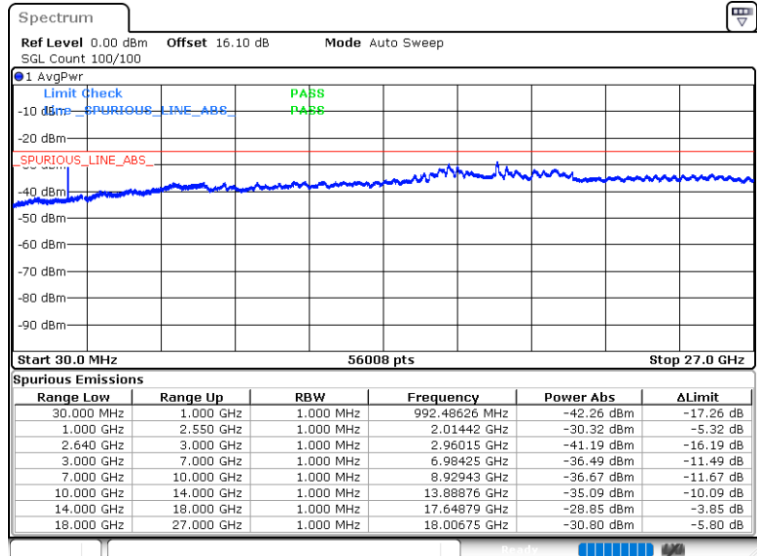
Middle Channel / QPSK



Date: 24.MAY.2023 11:28:14

Date: 24.MAY.2023 11:29:23

Highest Channel / QPSK



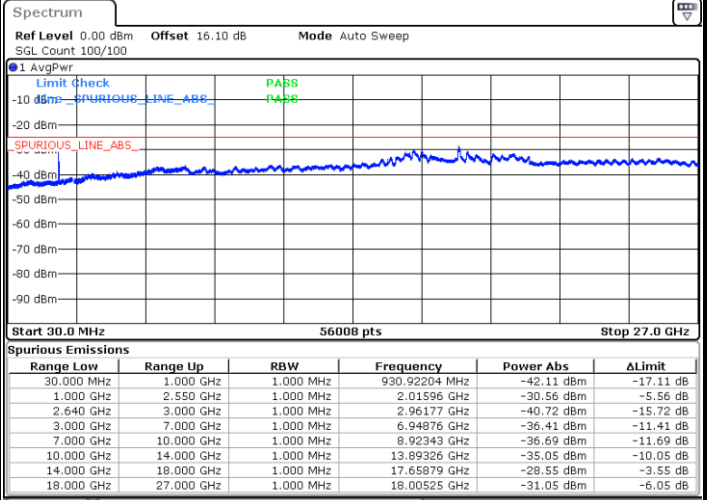
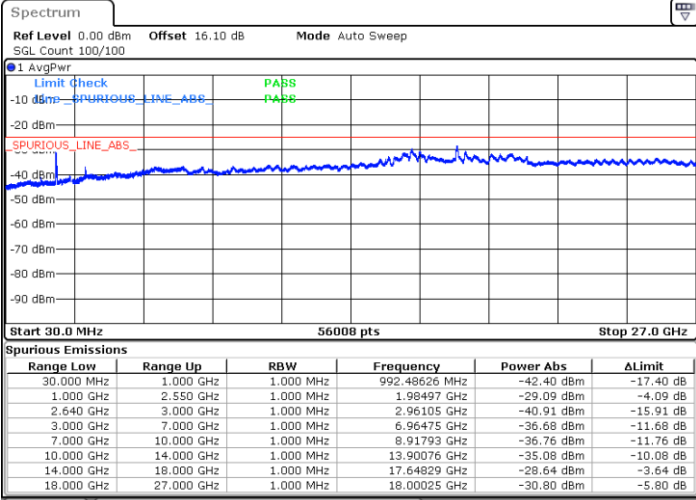
Date: 24.MAY.2023 11:30:32



LTE Band 38 / 15MHz

Lowest Channel / QPSK

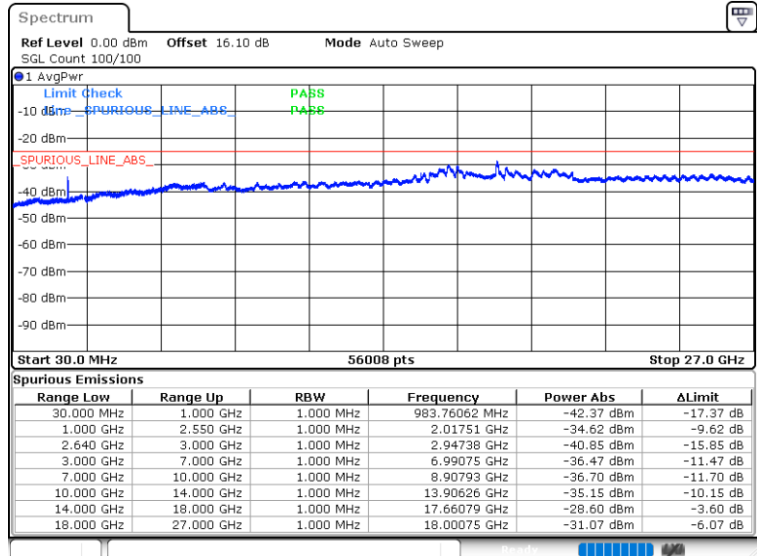
Middle Channel / QPSK



Date: 24.MAY.2023 11:31:45

Date: 24.MAY.2023 11:32:54

Highest Channel / QPSK



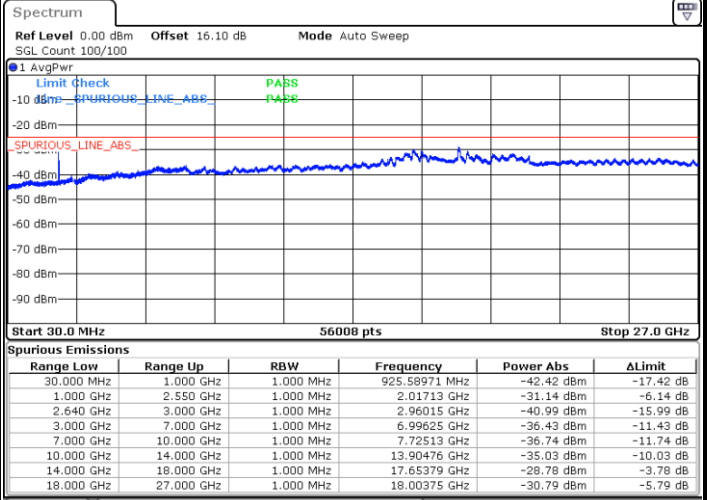
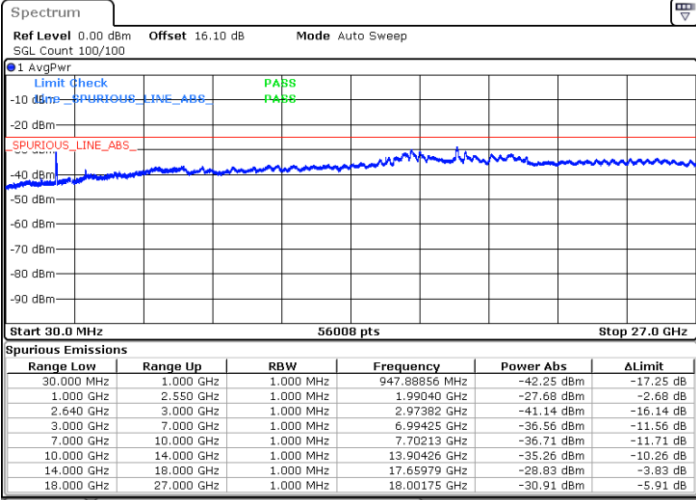
Date: 24.MAY.2023 11:34:04



LTE Band 38 / 20MHz

Lowest Channel / QPSK

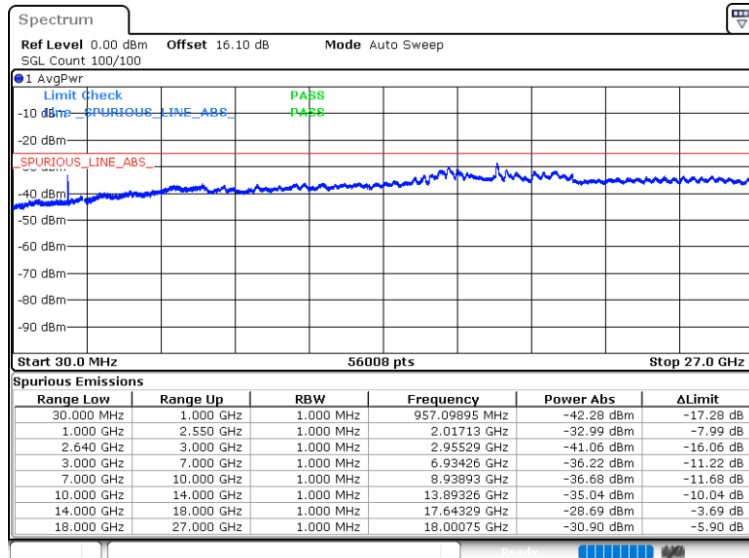
Middle Channel / QPSK



Date: 24.MAY.2023 11:35:18

Date: 24.MAY.2023 11:36:27

Highest Channel / QPSK



Date: 24.MAY.2023 11:37:36



Frequency Stability

Test Conditions		LTE Band 38 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0004	PASS
40	Normal Voltage	0.0022	
30	Normal Voltage	0.0062	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0030	
0	Normal Voltage	0.0059	
-10	Normal Voltage	0.0005	
20	Maximum Voltage	0.0048	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0043	

Note:

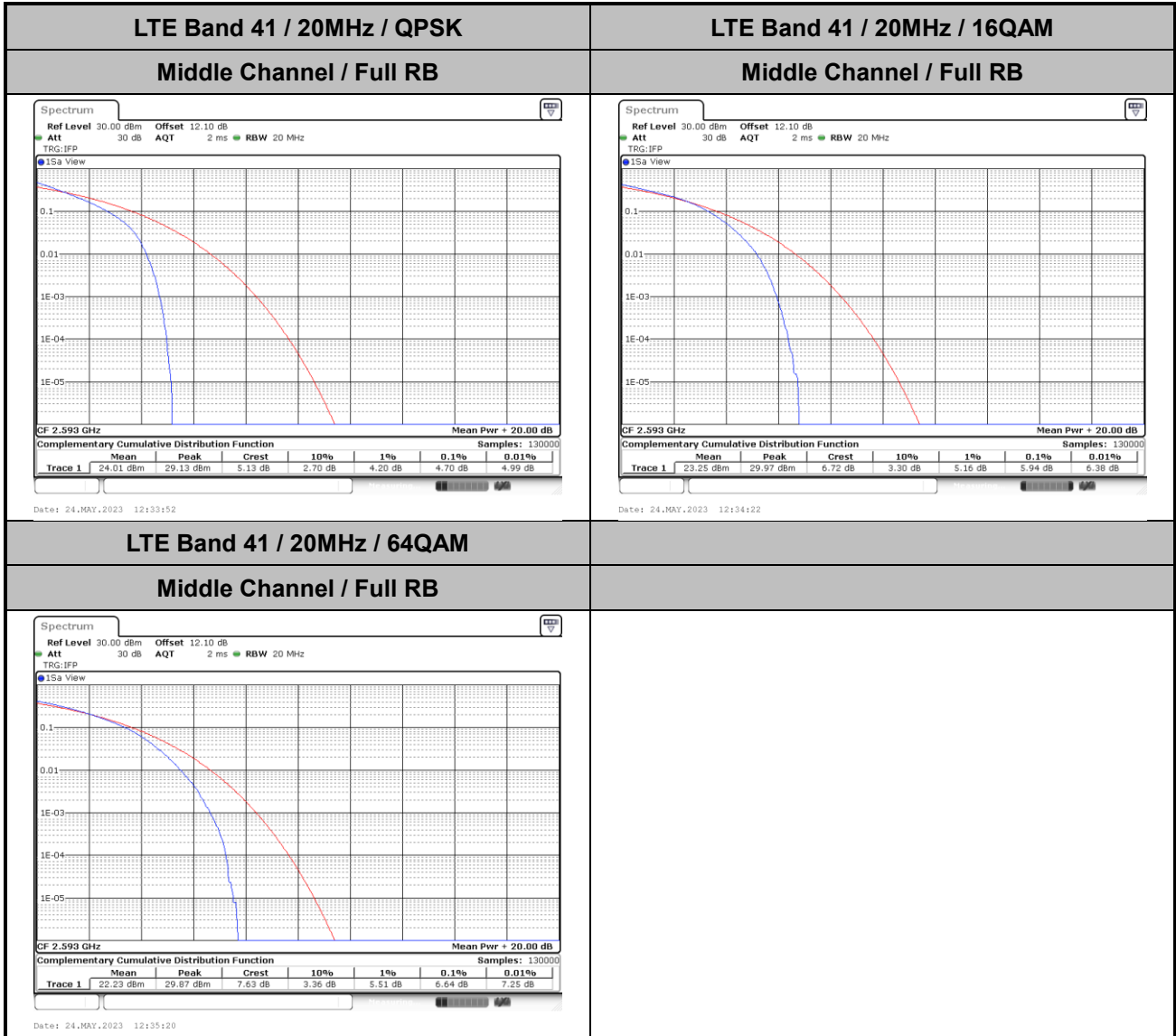
- 1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.42 V. ; Maximum Voltage = 4.45 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41

Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.70	5.94	6.64	PASS





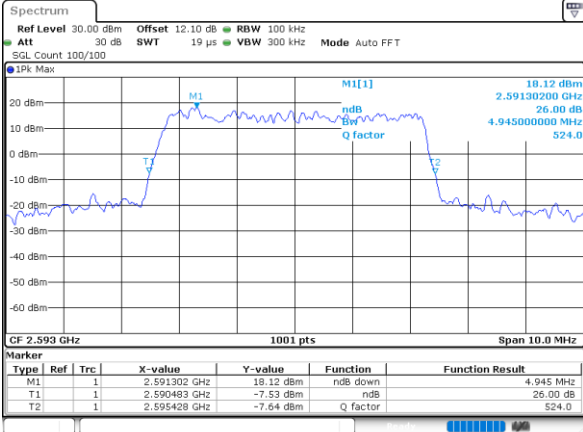
26dB Bandwidth

Mode	LTE Band 41 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.95	4.89	9.83	9.65	14.30	14.27	18.78	19.14
Mode	LTE Band 41 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	4.83	-	9.69	-	14.18	-	18.98	-



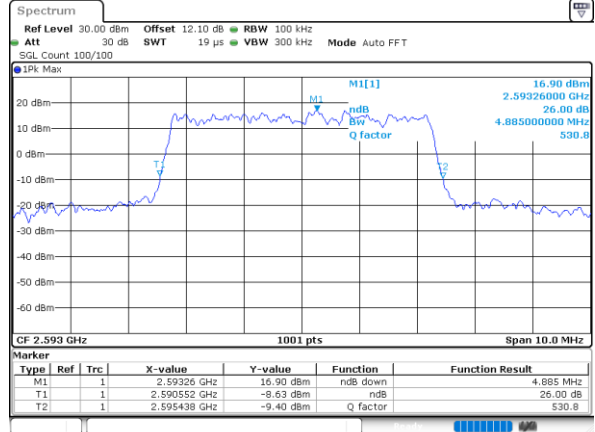
LTE Band 41

Middle Channel / 5MHz / QPSK



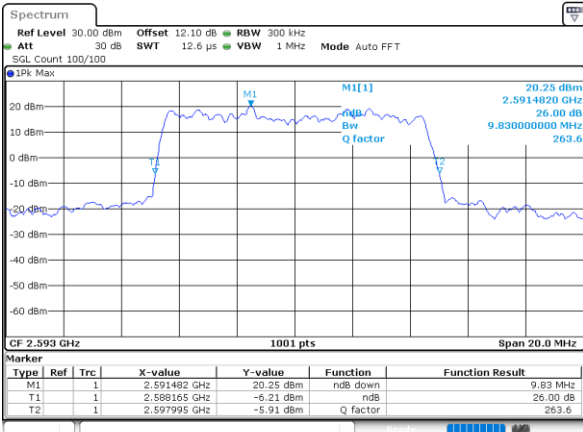
Date: 24.MAY.2023 12:04:02

Middle Channel / 5MHz / 16QAM



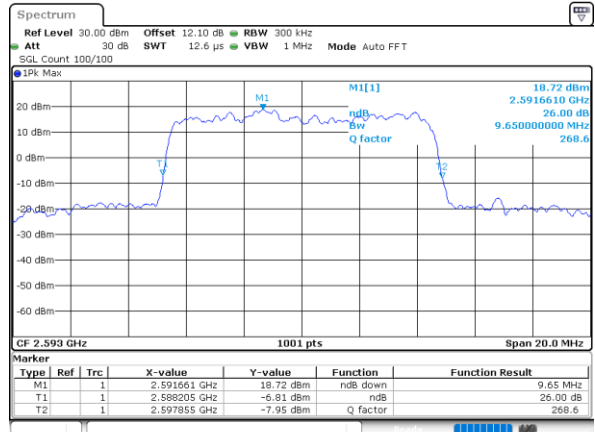
Date: 24.MAY.2023 12:04:45

Middle Channel / 10MHz / QPSK



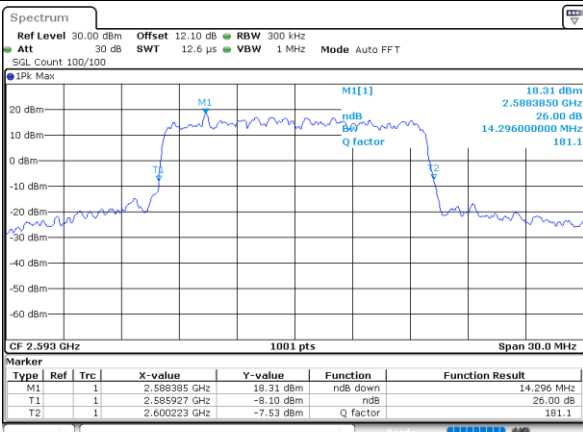
Date: 24.MAY.2023 12:17:10

Middle Channel / 10MHz / 16QAM



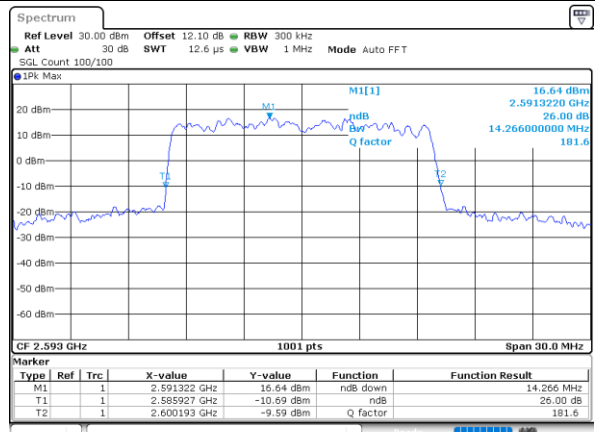
Date: 24.MAY.2023 12:17:53

Middle Channel / 15MHz / QPSK



Date: 24.MAY.2023 12:25:22

Middle Channel / 15MHz / 16QAM

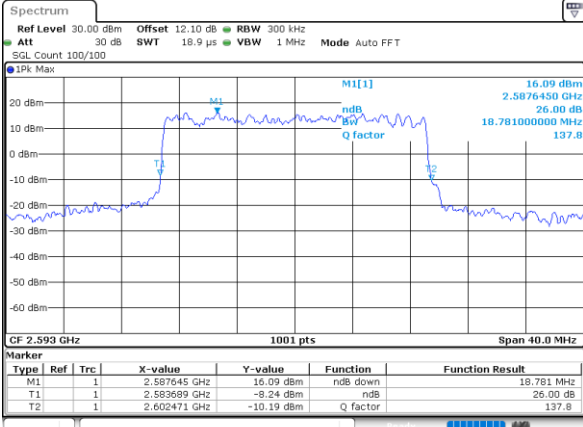


Date: 24.MAY.2023 12:26:05



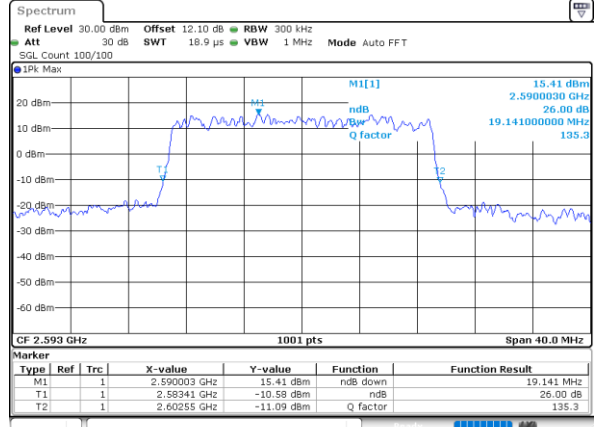
LTE Band 41

Middle Channel / 20MHz / QPSK



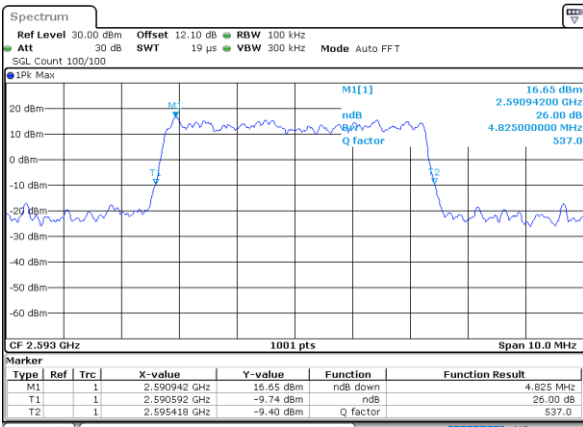
Date: 24.MAY.2023 12:33:37

Middle Channel / 20MHz / 16QAM



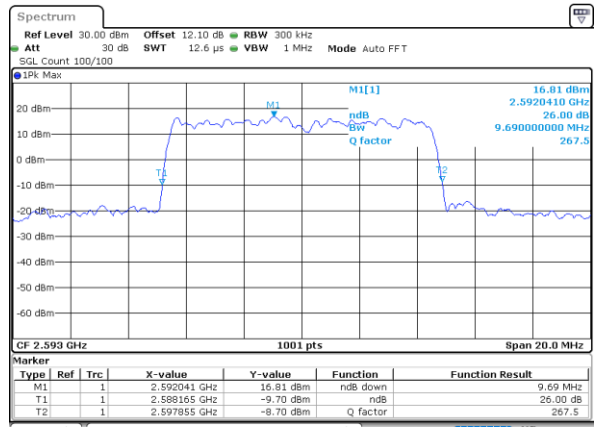
Date: 24.MAY.2023 12:34:50

Middle Channel / 5MHz / 64QAM



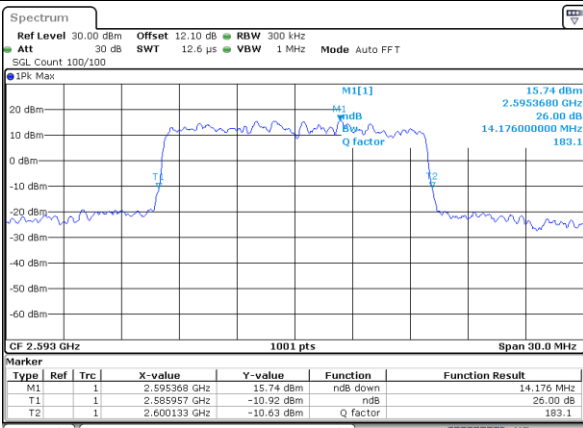
Date: 24.MAY.2023 12:05:28

Middle Channel / 10MHz / 64QAM



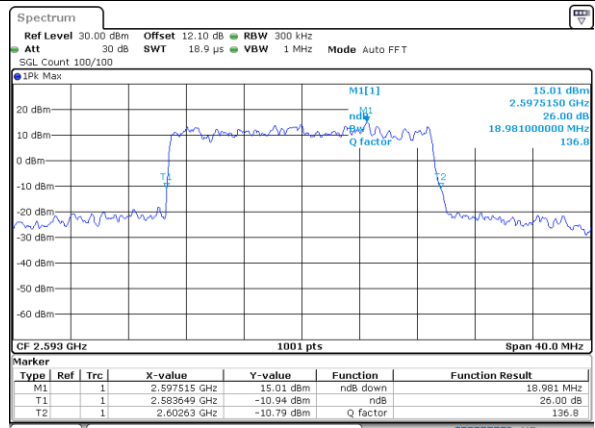
Date: 24.MAY.2023 12:18:35

Middle Channel / 15MHz / 64QAM



Date: 24.MAY.2023 12:26:47

Middle Channel / 20MHz / 64QAM



Date: 24.MAY.2023 12:35:48



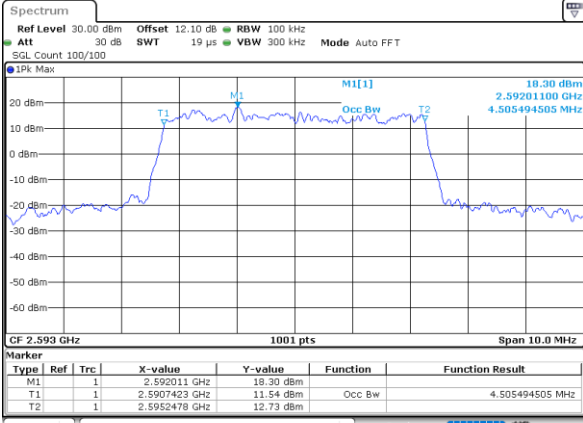
Occupied Bandwidth

Mode	LTE Band 41 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.51	4.49	9.05	9.01	13.34	13.43	17.90	17.90
Mode	LTE Band 41 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	4.50	-	9.05	-	13.40	-	17.90	-



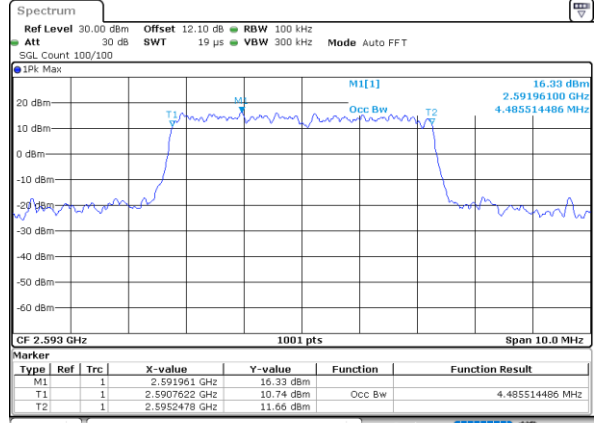
LTE Band 41

Middle Channel / 5MHz / QPSK



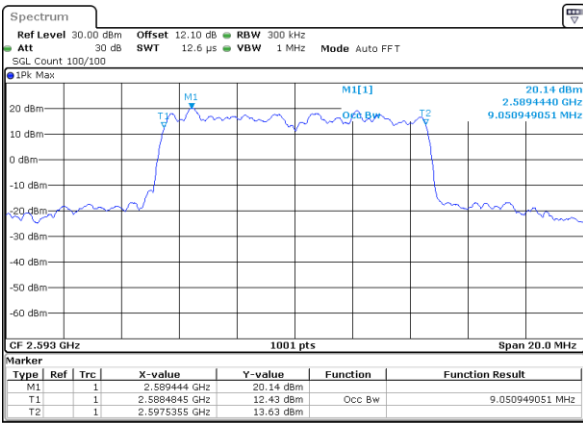
Date: 24.MAY.2023 12:03:48

Middle Channel / 5MHz / 16QAM



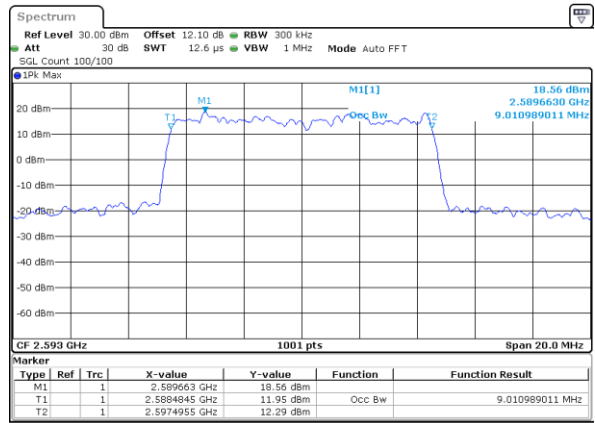
Date: 24.MAY.2023 12:04:31

Middle Channel / 10MHz / QPSK



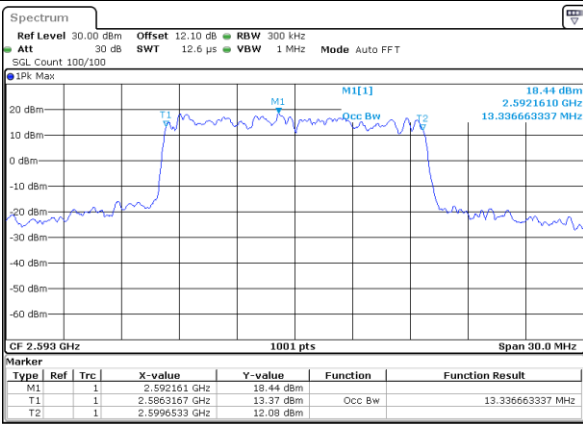
Date: 24.MAY.2023 12:16:56

Middle Channel / 10MHz / 16QAM



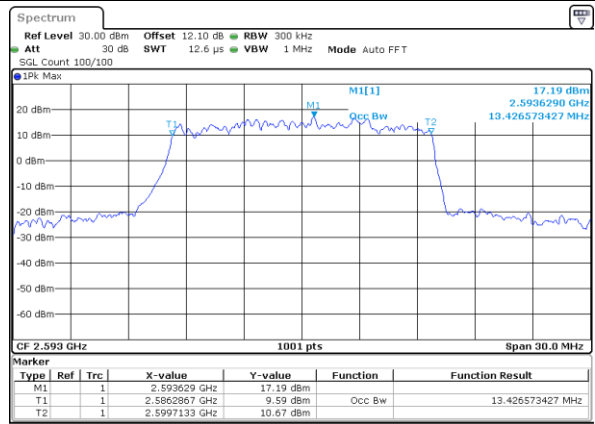
Date: 24.MAY.2023 12:17:39

Middle Channel / 15MHz / QPSK



Date: 24.MAY.2023 12:25:08

Middle Channel / 15MHz / 16QAM

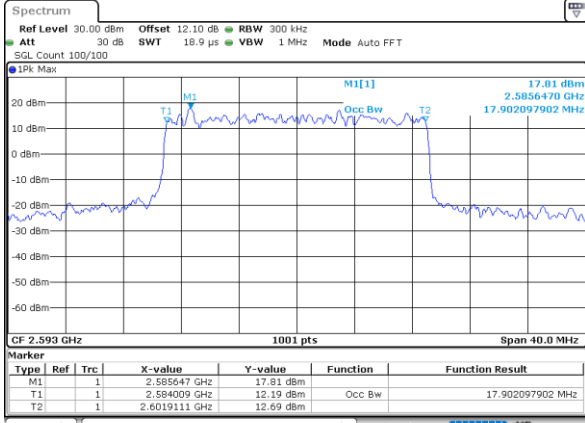


Date: 24.MAY.2023 12:25:50



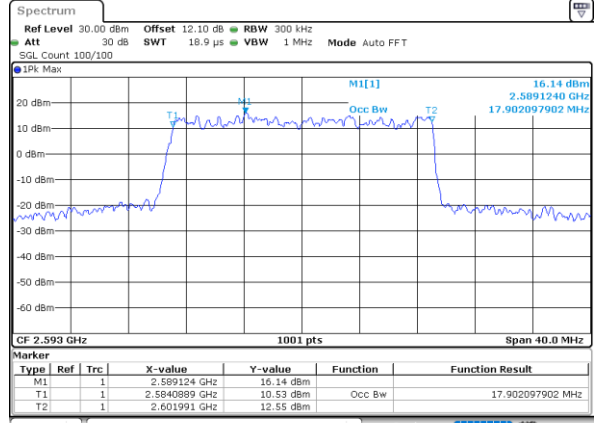
LTE Band 41

Middle Channel / 20MHz / QPSK



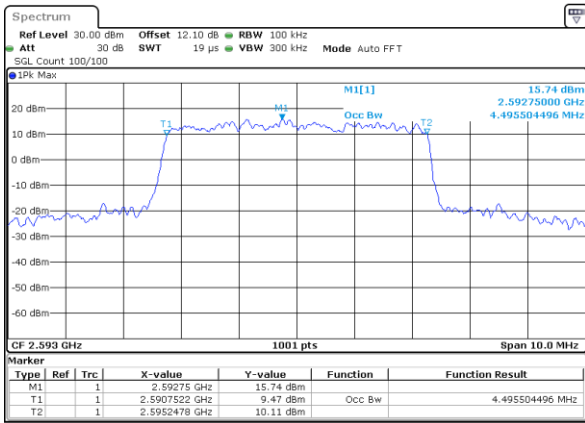
Date: 24.MAY.2023 12:33:23

Middle Channel / 20MHz / 16QAM



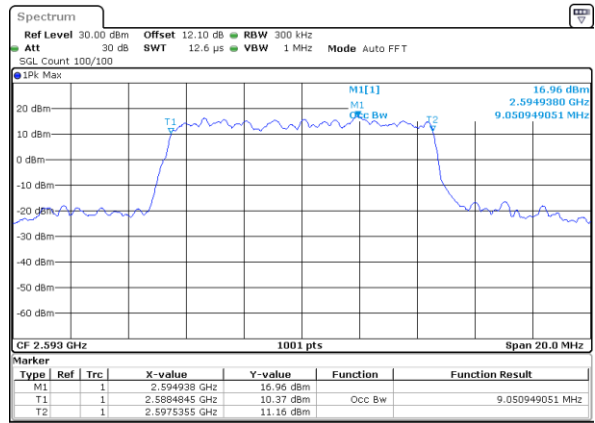
Date: 24.MAY.2023 12:34:36

Middle Channel / 5MHz / 64QAM



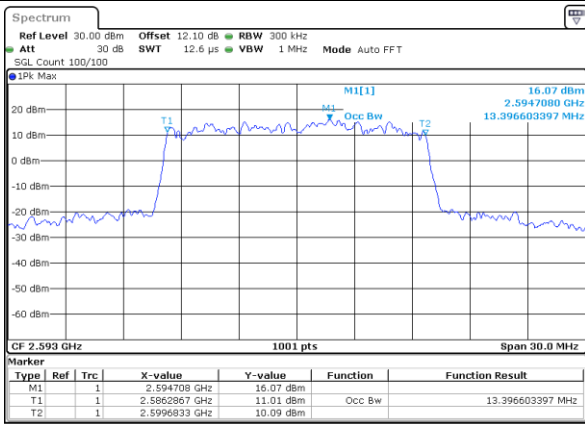
Date: 24.MAY.2023 12:05:14

Middle Channel / 10MHz / 64QAM



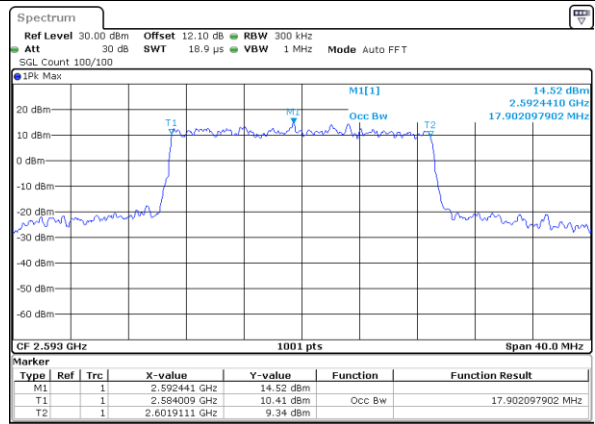
Date: 24.MAY.2023 12:18:21

Middle Channel / 15MHz / 64QAM



Date: 24.MAY.2023 12:26:33

Middle Channel / 20MHz / 64QAM



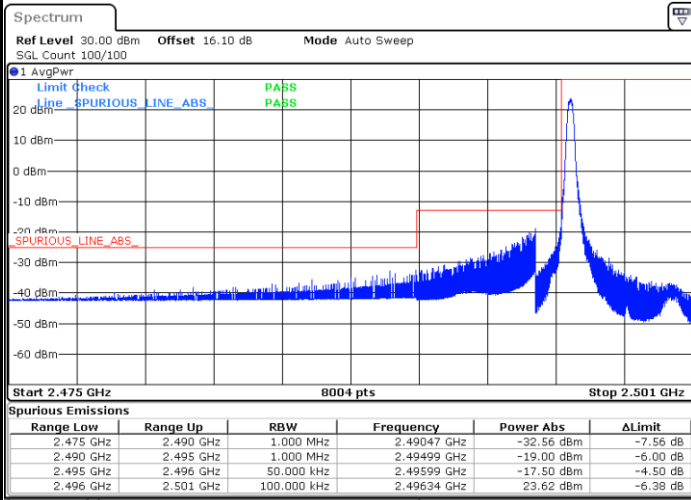
Date: 24.MAY.2023 12:35:34



Conducted Band Edge

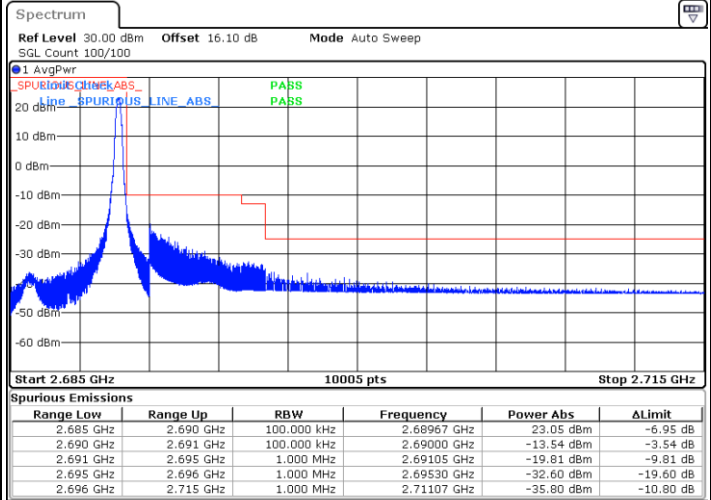
LTE Band 41 / 5MHz / QPSK

Lowest Band Edge / 1 RB



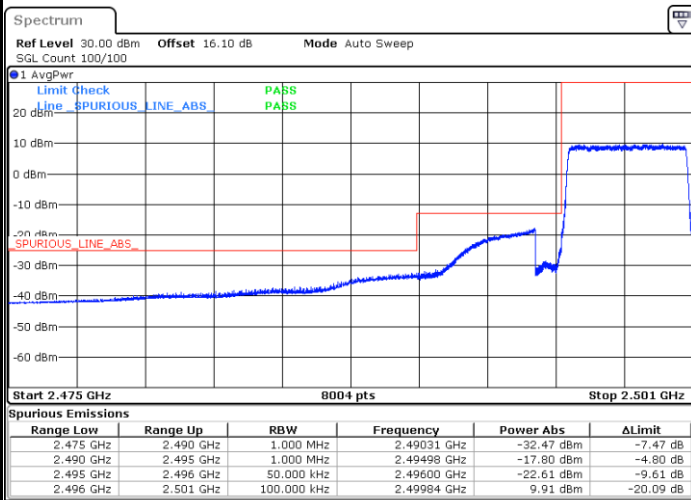
Date: 24.MAY.2023 13:59:05

Highest Band Edge / 1 RB



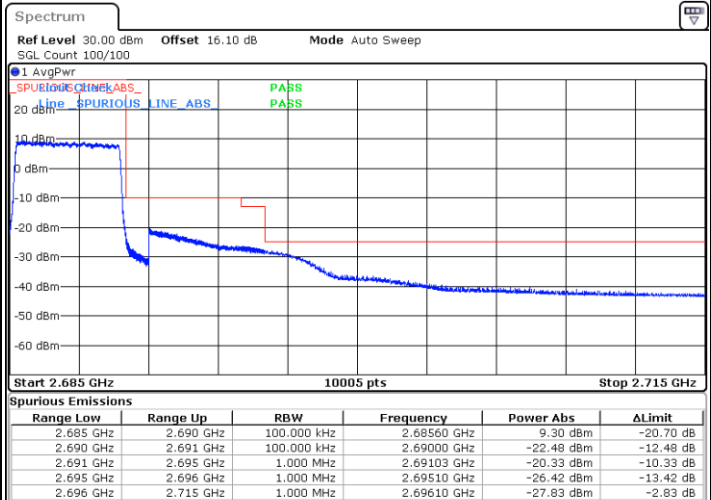
Date: 24.MAY.2023 12:09:57

Lowest Band Edge / Full RB



Date: 24.MAY.2023 12:00:08

Highest Band Edge / Full RB

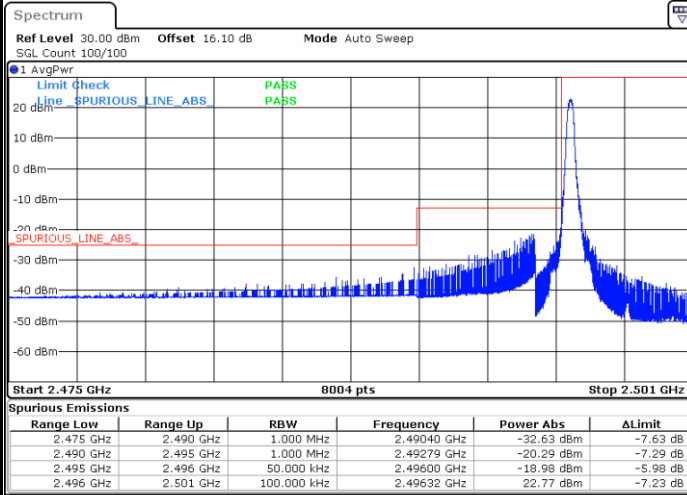


Date: 24.MAY.2023 12:06:34



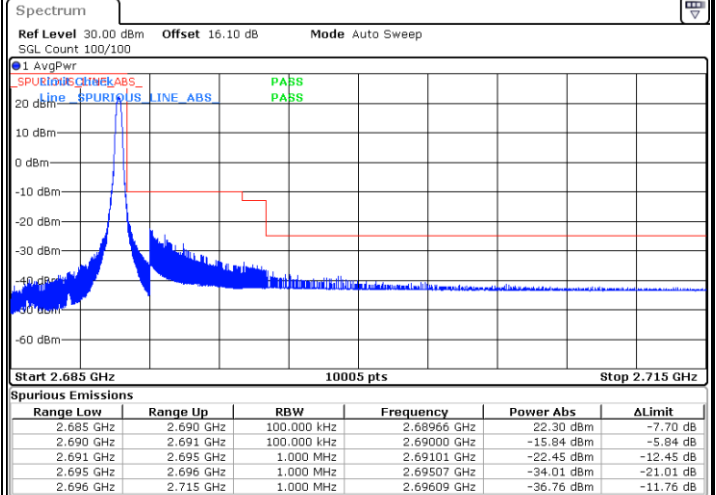
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



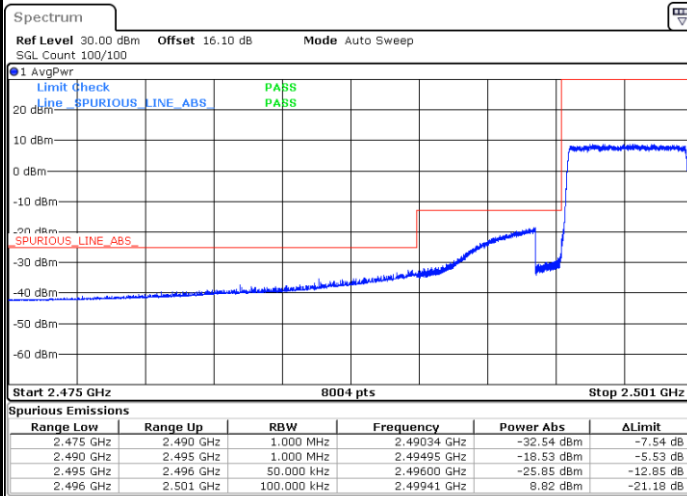
Date: 24.MAY.2023 11:56:58

Highest Band Edge / 1 RB



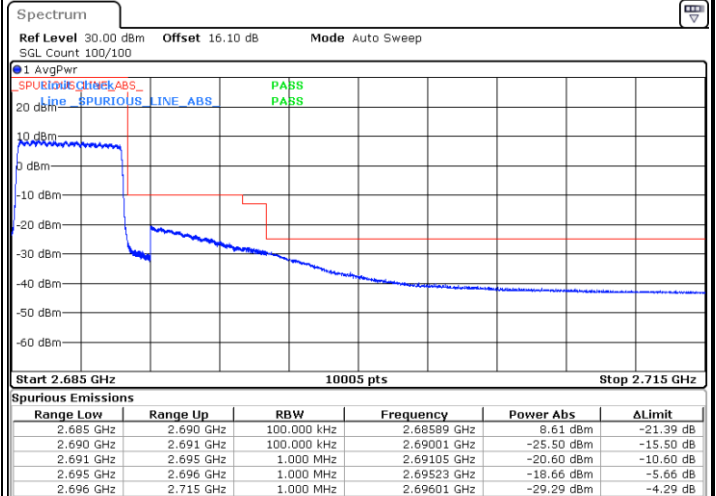
Date: 24.MAY.2023 12:11:04

Lowest Band Edge / Full RB



Date: 24.MAY.2023 12:01:09

Highest Band Edge / Full RB

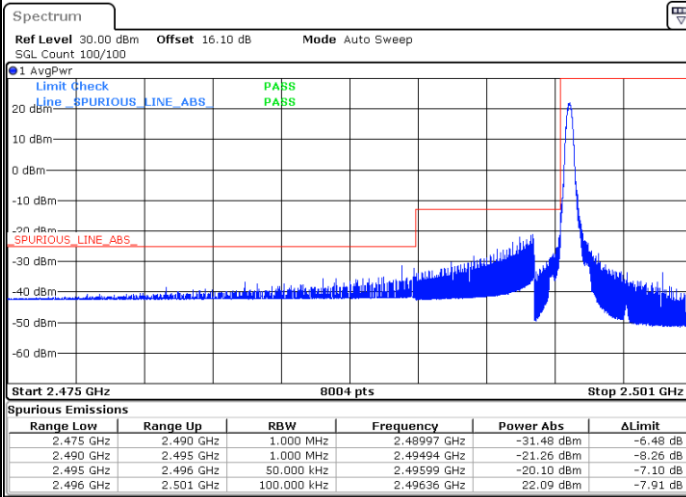


Date: 24.MAY.2023 12:07:42



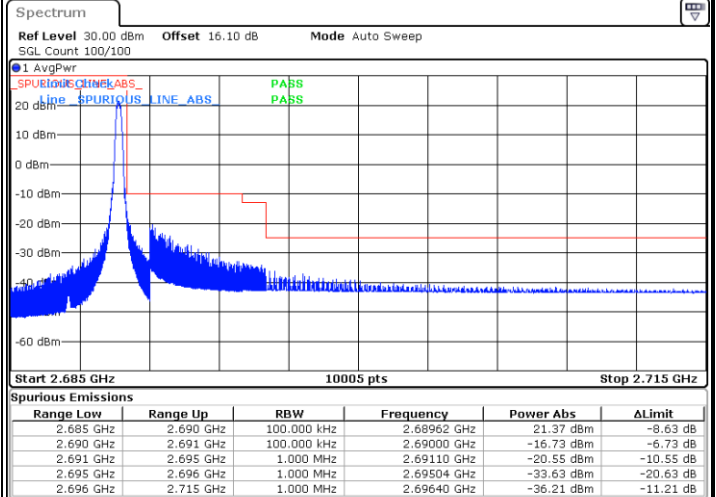
LTE Band 41 / 5MHz / 64QAM

Lowest Band Edge / 1RB



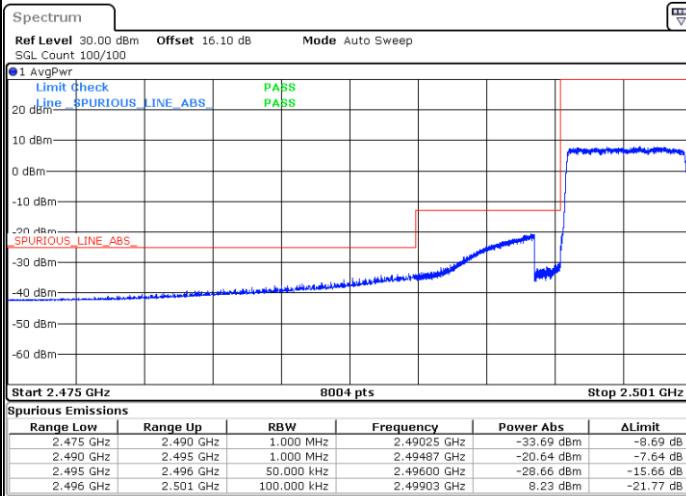
Date: 24.MAY.2023 11:57:59

Highest Band Edge / 1 RB



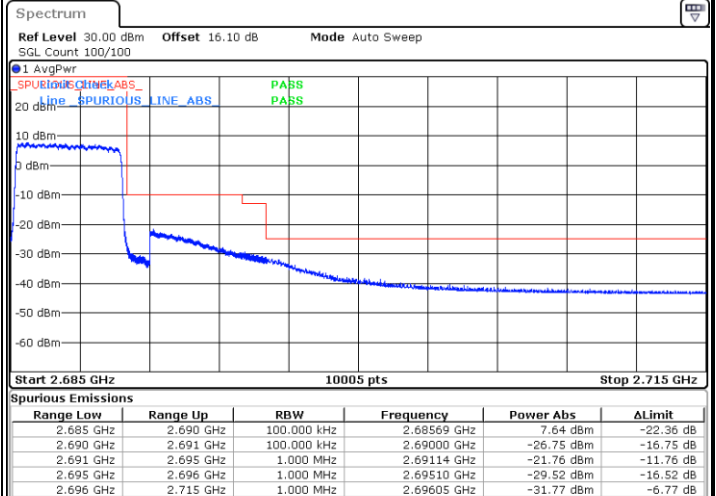
Date: 24.MAY.2023 12:12:11

Lowest Band Edge / Full RB



Date: 24.MAY.2023 14:00:41

Highest Band Edge / Full RB

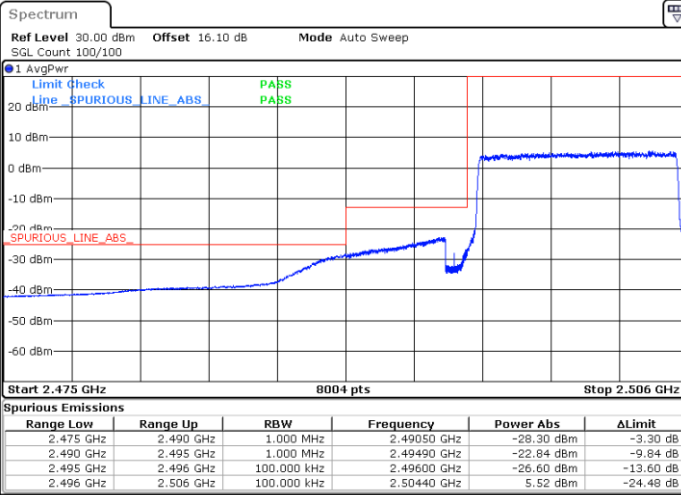


Date: 24.MAY.2023 12:08:49



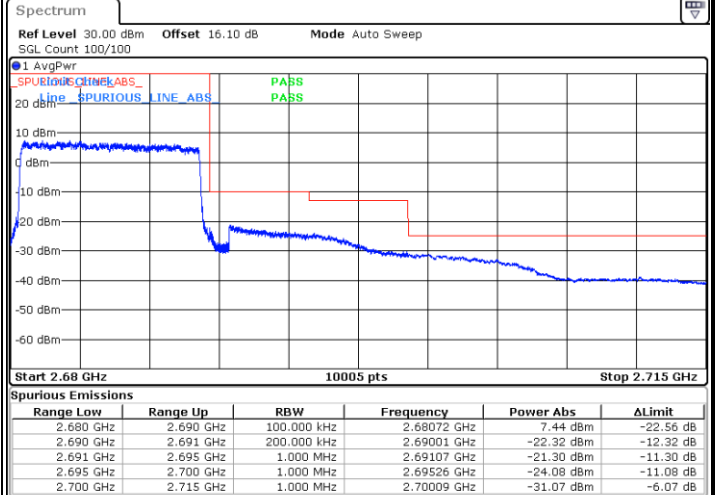
LTE Band 41 / 10MHz / QPSK

Lowest Band Edge / Full RB



Date: 24.MAY.2023 12:14:26

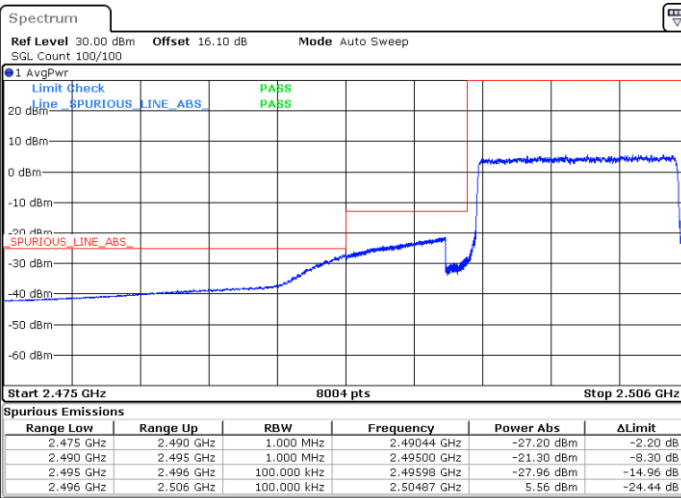
Highest Band Edge / Full RB



Date: 24.MAY.2023 13:53:53

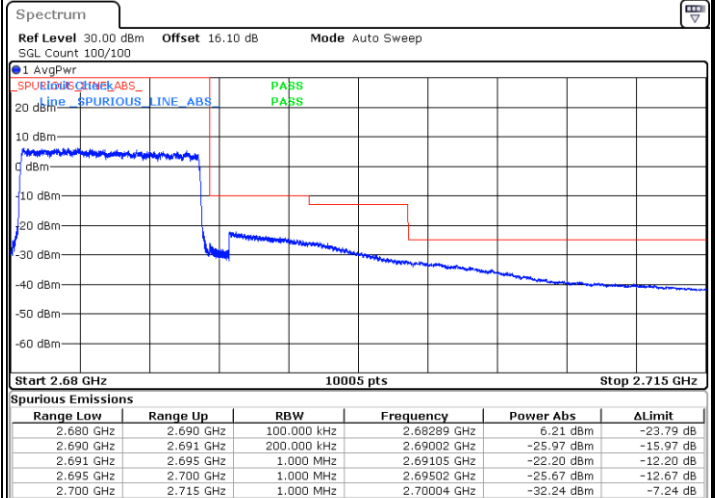
LTE Band 41 / 10MHz / 16QAM

Lowest Band Edge / Full RB



Date: 24.MAY.2023 12:15:26

Highest Band Edge / Full RB



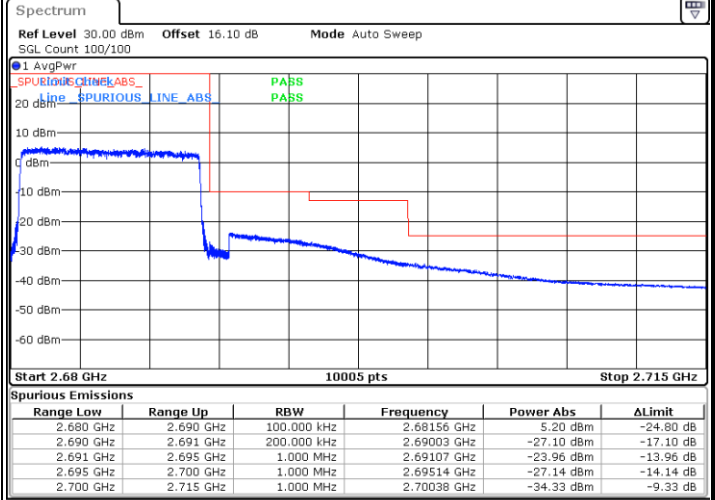
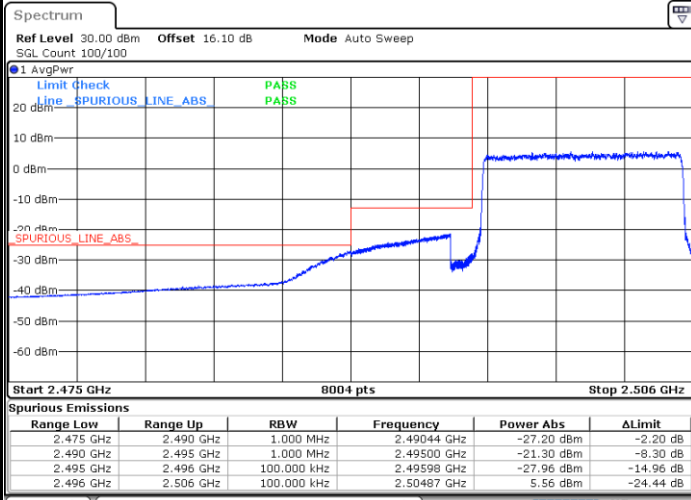
Date: 24.MAY.2023 12:20:33



LTE Band 41 / 10MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



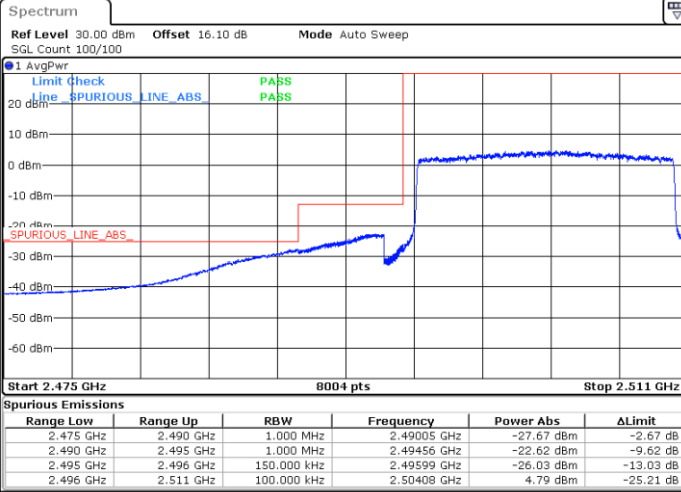
Date: 24.MAY.2023 12:15:26

Date: 24.MAY.2023 12:21:33



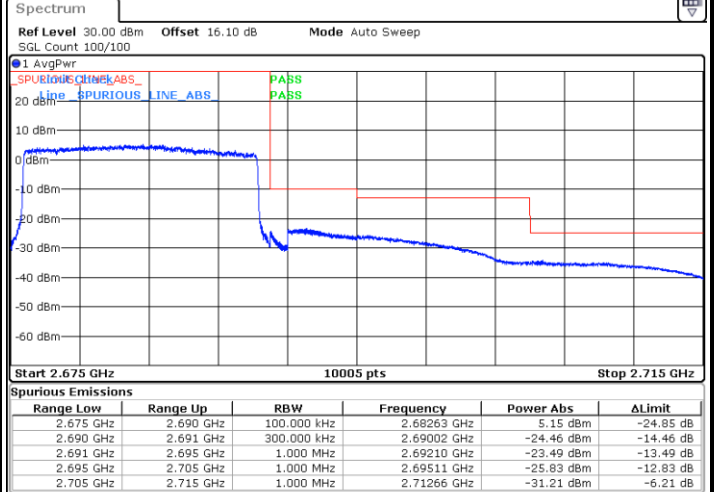
LTE Band 41 / 15MHz / QPSK

Lowest Band Edge / Full RB



Date: 24.MAY.2023 12:22:38

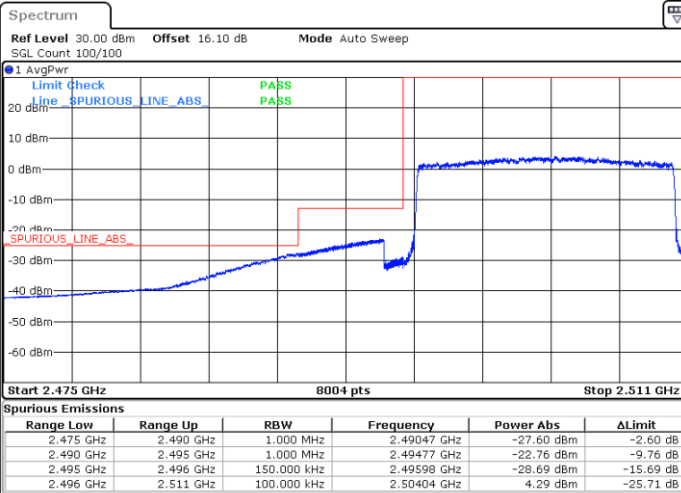
Highest Band Edge / Full RB



Date: 24.MAY.2023 13:46:39

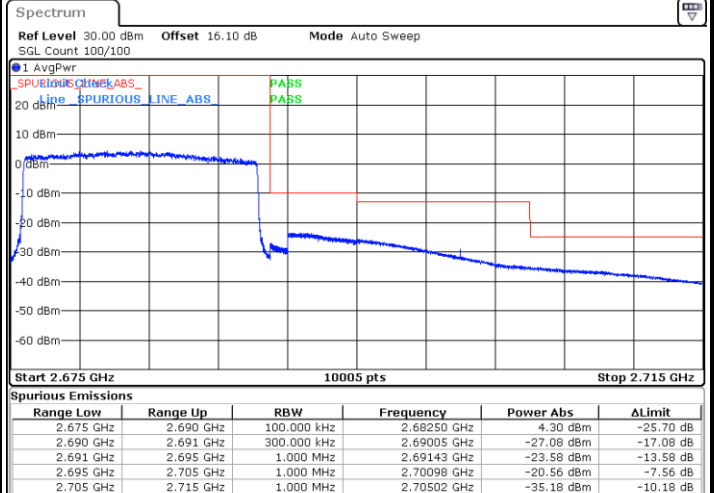
LTE Band 41 / 15MHz / 16QAM

Lowest Band Edge / Full RB



Date: 24.MAY.2023 12:23:37

Highest Band Edge / Full RB



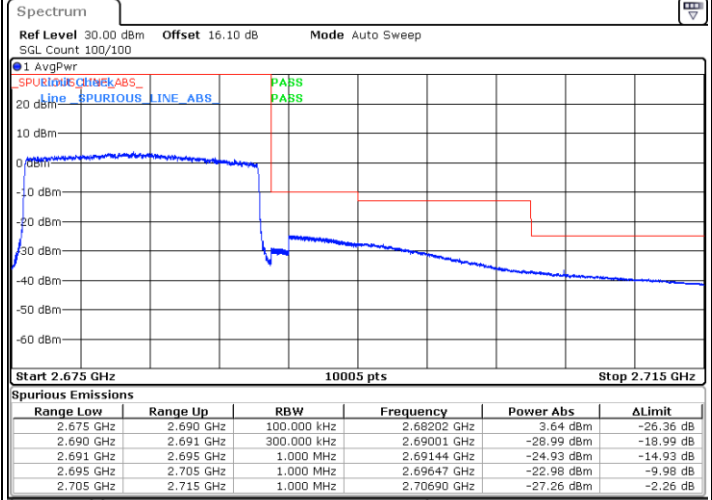
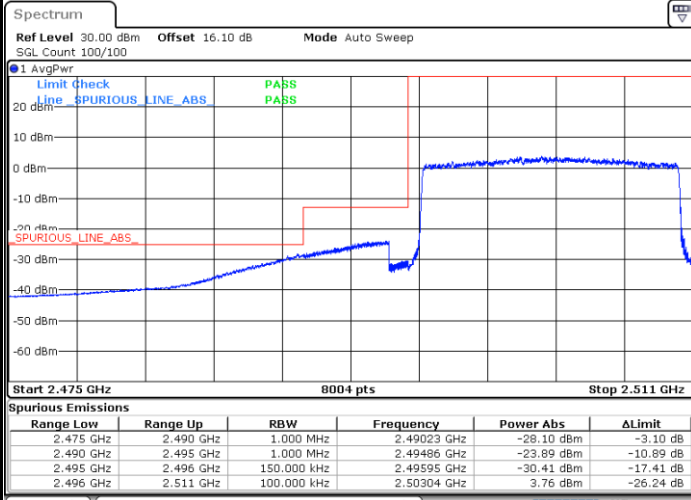
Date: 24.MAY.2023 13:47:40



LTE Band 41 / 15MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 24.MAY.2023 12:24:37

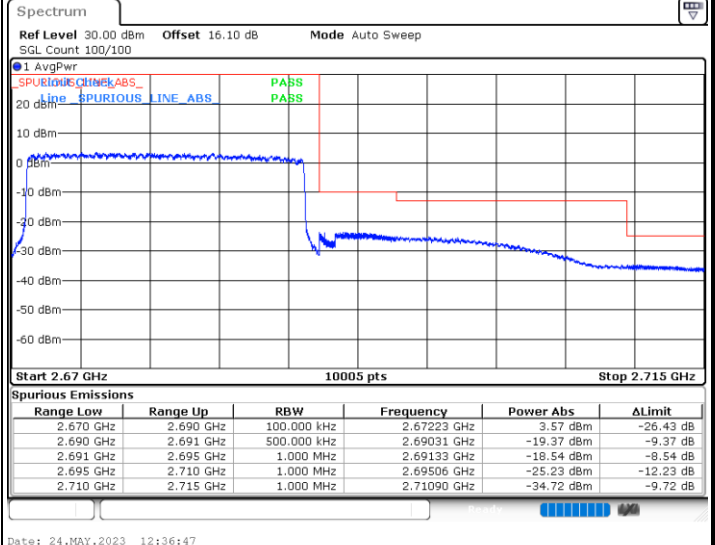
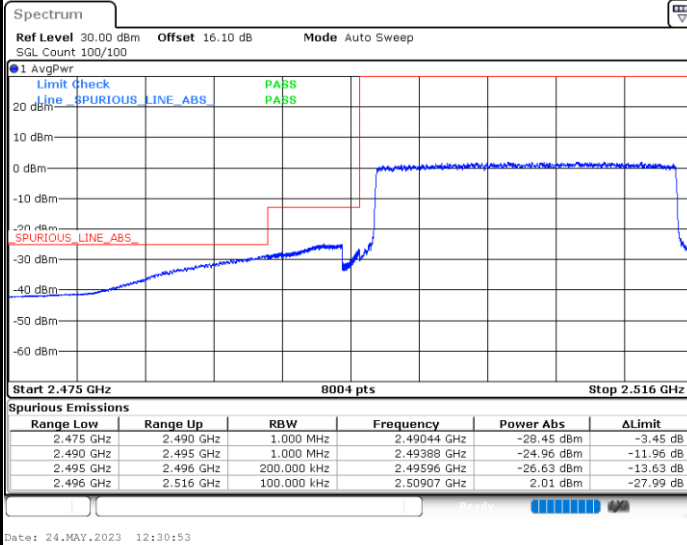
Date: 24.MAY.2023 13:51:54



LTE Band 41 / 20MHz / QPSK

Lowest Band Edge / Full RB

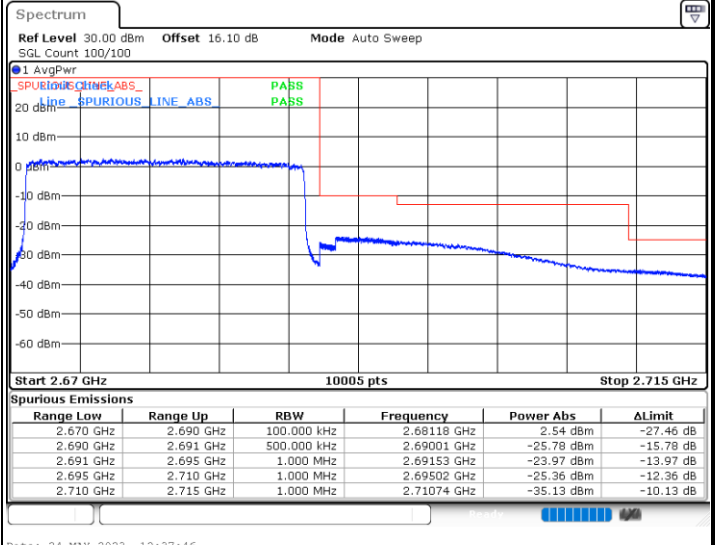
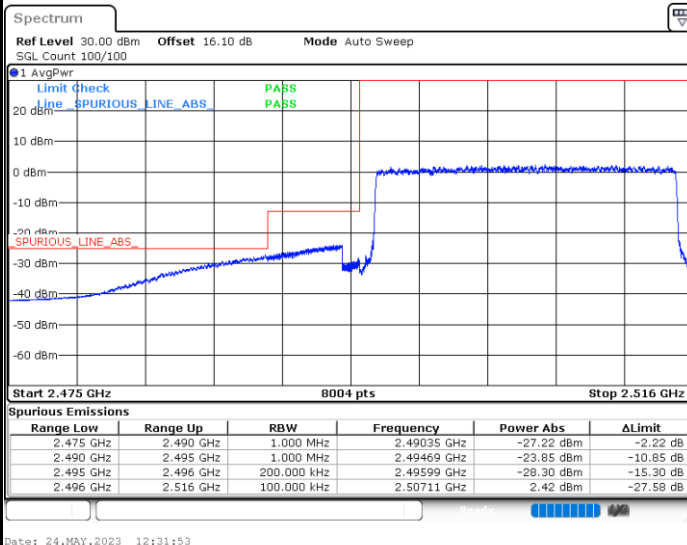
Highest Band Edge / Full RB



LTE Band 41 / 20MHz / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

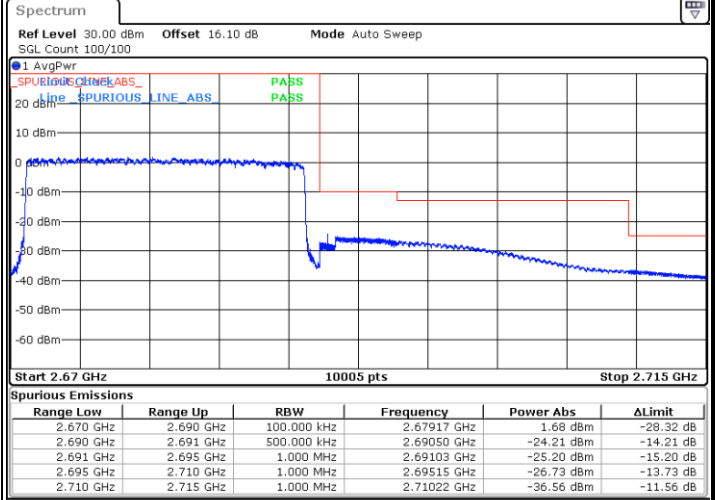
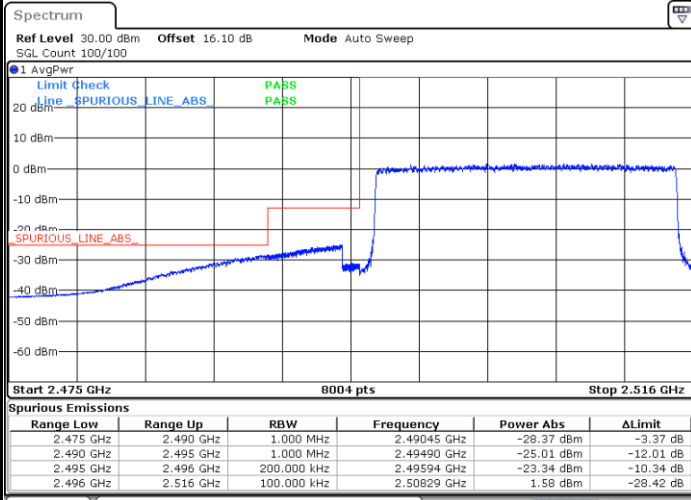




LTE Band 41 / 20MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 24.MAY.2023 12:32:53

Date: 24.MAY.2023 12:38:46

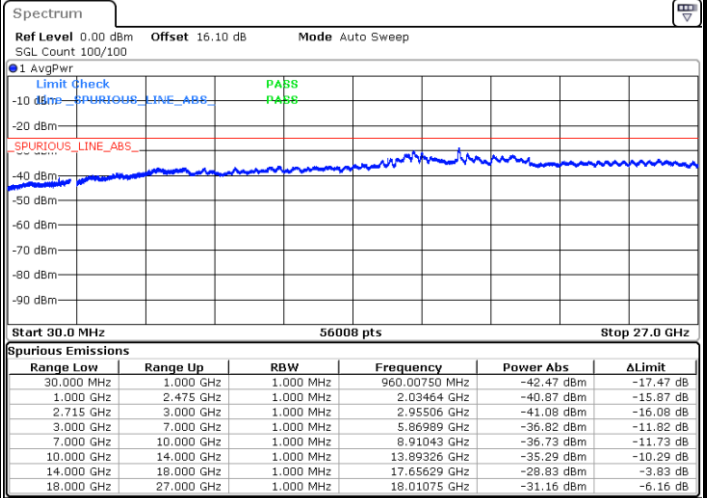
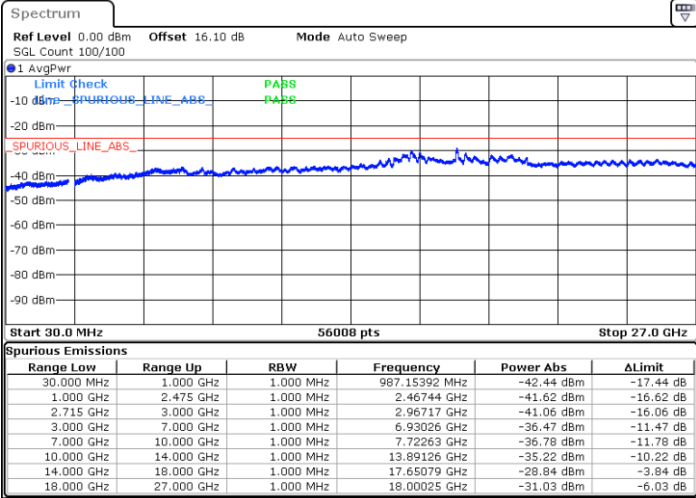


Conducted Spurious Emission

LTE Band 41 / 5MHz

Lowest Channel / QPSK

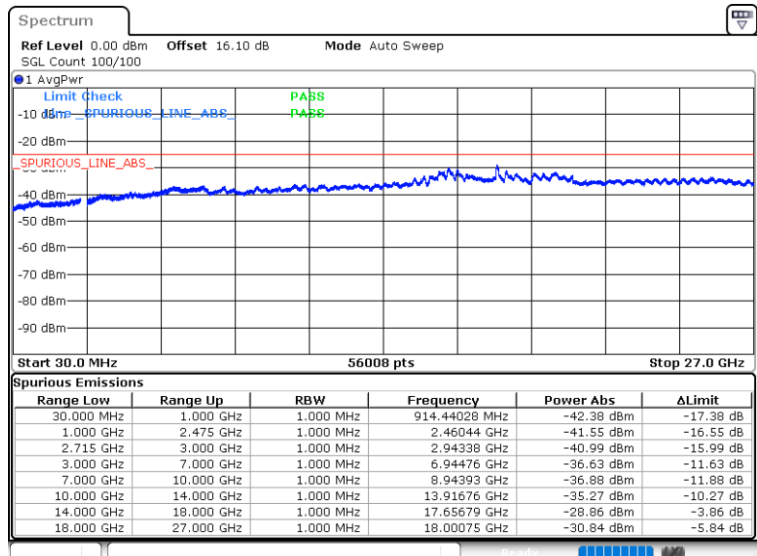
Middle Channel / QPSK



Date: 24.MAY.2023 11:59:08

Date: 24.MAY.2023 12:03:18

Highest Channel / QPSK



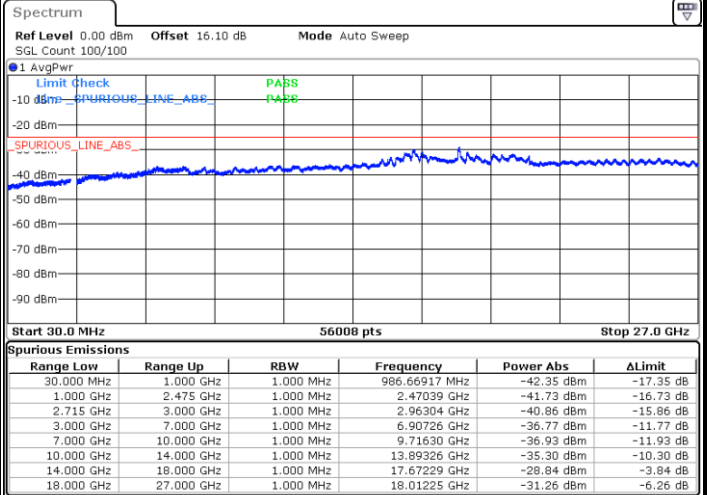
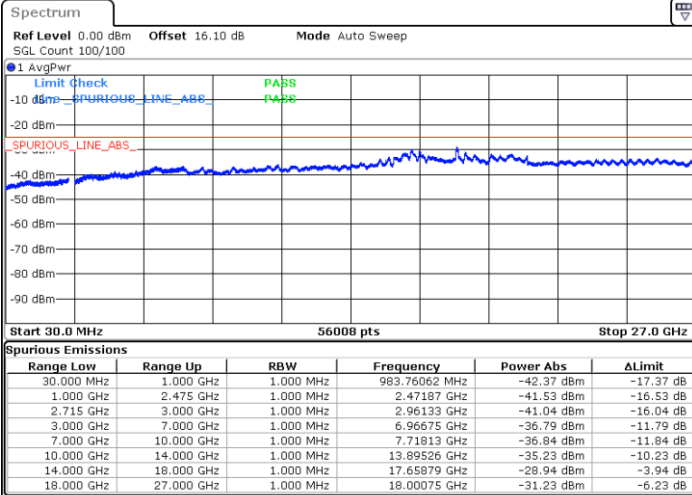
Date: 24.MAY.2023 12:13:21



LTE Band 41 / 10MHz

Lowest Channel / QPSK

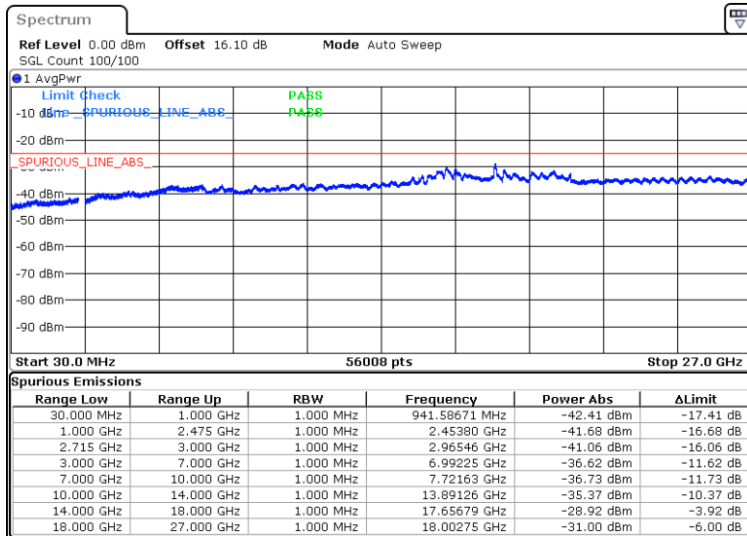
Middle Channel / QPSK



Date: 24.MAY.2023 12:40:00

Date: 24.MAY.2023 12:41:09

Highest Channel / QPSK



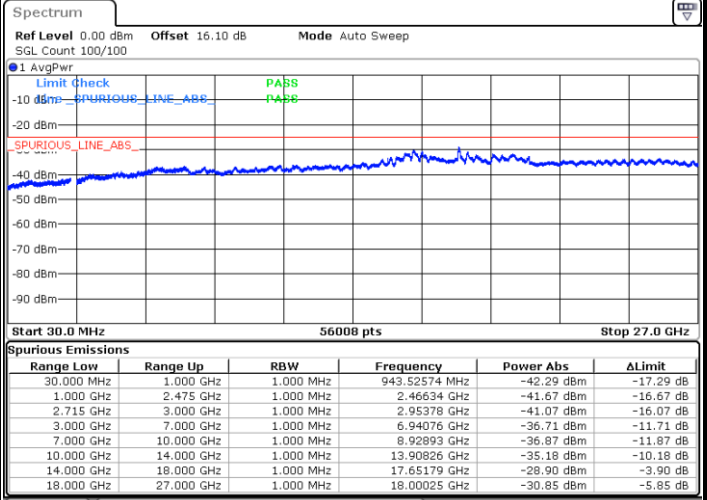
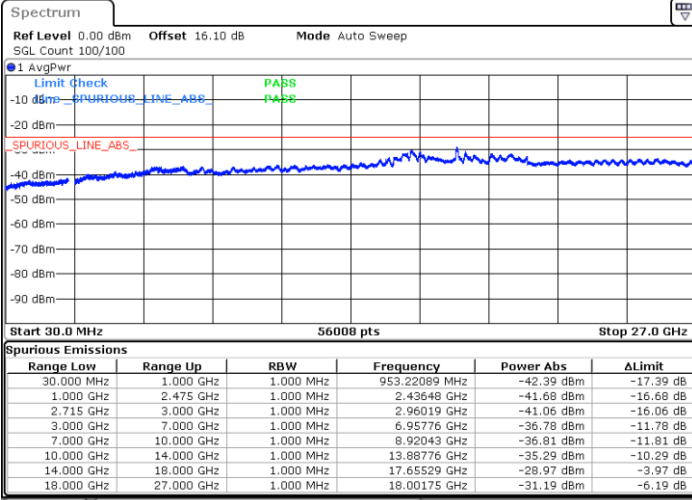
Date: 24.MAY.2023 12:42:19



LTE Band 41 / 15MHz

Lowest Channel / QPSK

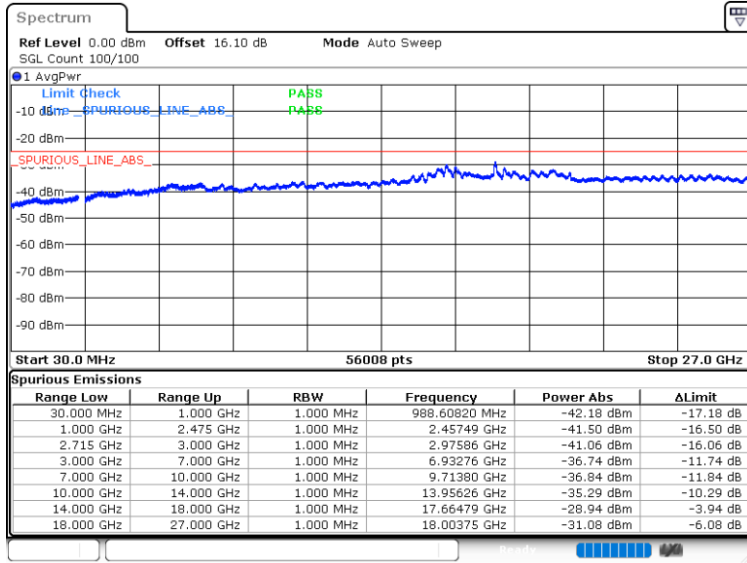
Middle Channel / QPSK



Date: 24.MAY.2023 12:43:33

Date: 24.MAY.2023 12:44:42

Highest Channel / QPSK



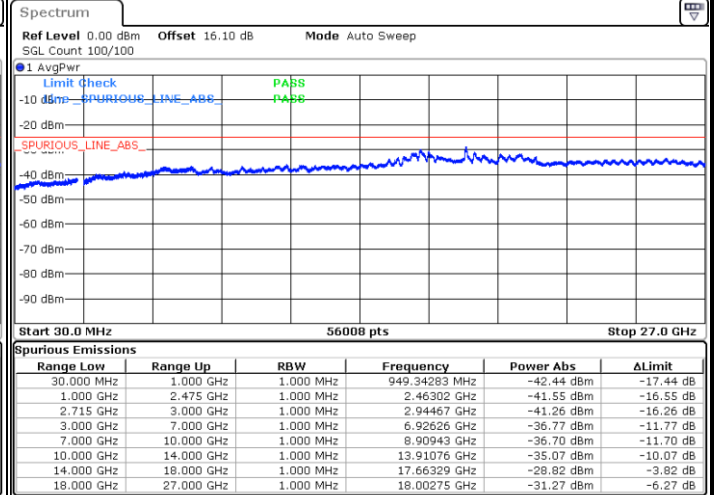
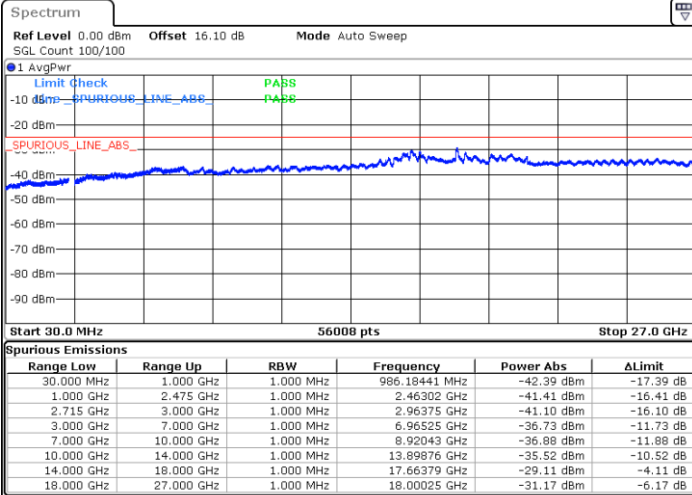
Date: 24.MAY.2023 12:45:51



LTE Band 41 / 20MHz

Lowest Channel / QPSK

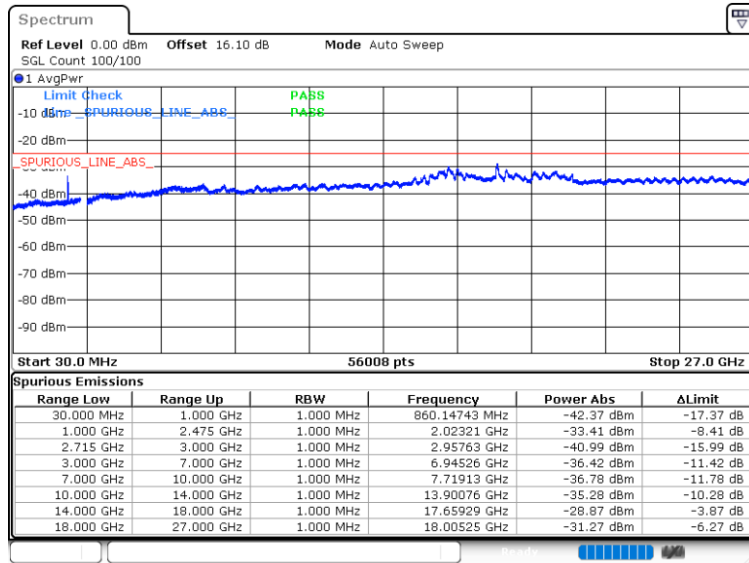
Middle Channel / QPSK



Date: 24.MAY.2023 12:47:05

Date: 24.MAY.2023 12:48:13

Highest Channel / QPSK



Date: 24.MAY.2023 12:49:22



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	0.0003	PASS
40	Normal Voltage	0.0025	
30	Normal Voltage	0.0055	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0015	
0	Normal Voltage	0.0050	
-10	Normal Voltage	0.0044	
20	Maximum Voltage	0.0013	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0030	

Note:

1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.42 V. ; Maximum Voltage = 4.45 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41C

26dB Bandwidth

Mode	LTE Band 41C : 26dB BW(MHz)				
QPSK					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Middle CH	24.83	25.03	29.85	25.38	30.75
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Middle CH	34.83	24.93	29.79	34.76	39.72

Mode	LTE Band 41C : 26dB BW(MHz)				
16QAM					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Middle CH	24.88	25.23	30.03	25.33	30.57
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Middle CH	34.83	24.93	30.09	34.90	39.72

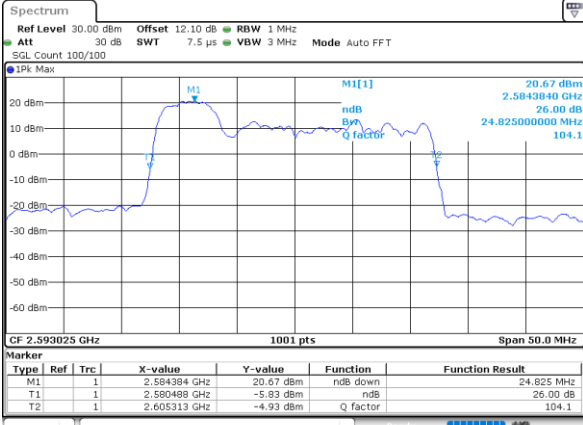
Mode	LTE Band 41C : 26dB BW(MHz)				
64QAM					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Middle CH	24.78	25.13	29.79	25.23	30.51
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Middle CH	34.97	25.03	29.91	34.76	39.80



LTE Band 41C

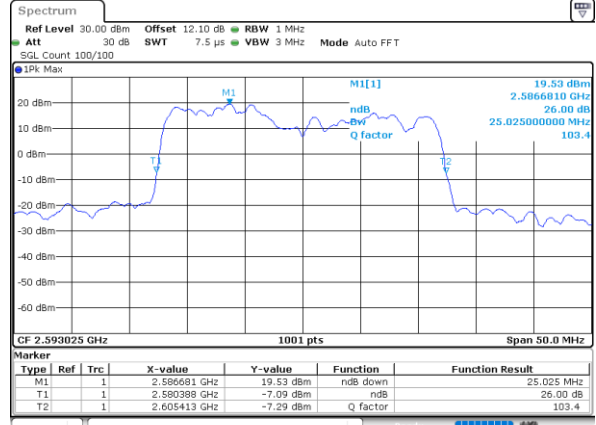
QPSK

Middle Channel / 5MHz+20MHz



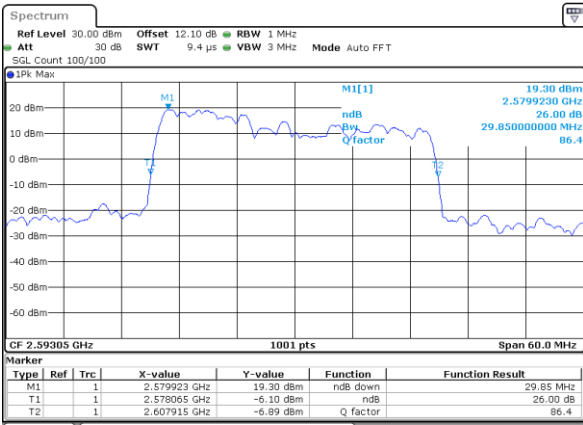
Date: 25.MAY.2023 14:25:59

Middle Channel / 10MHz+15MHz



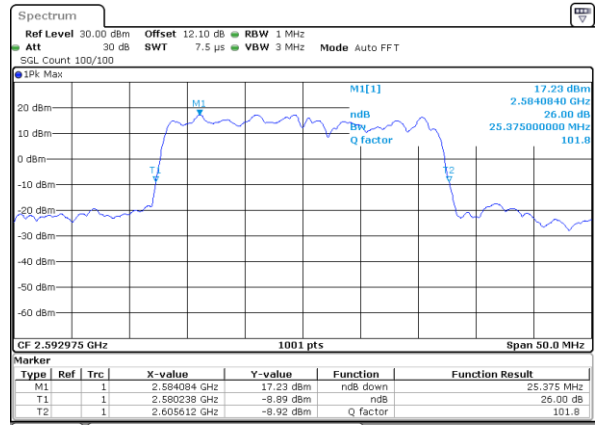
Date: 25.MAY.2023 14:33:35

Middle Channel / 10MHz+20MHz



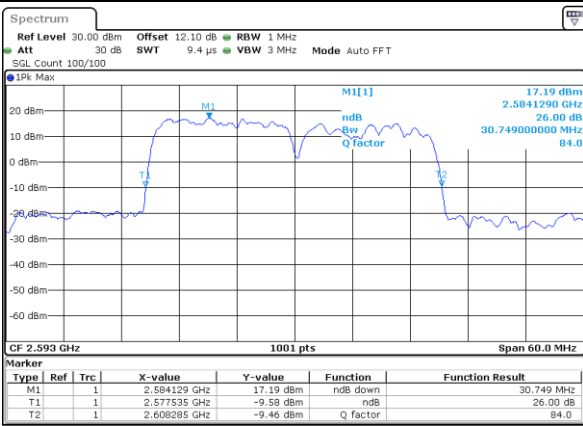
Date: 25.MAY.2023 14:41:11

Middle Channel / 15MHz+10MHz



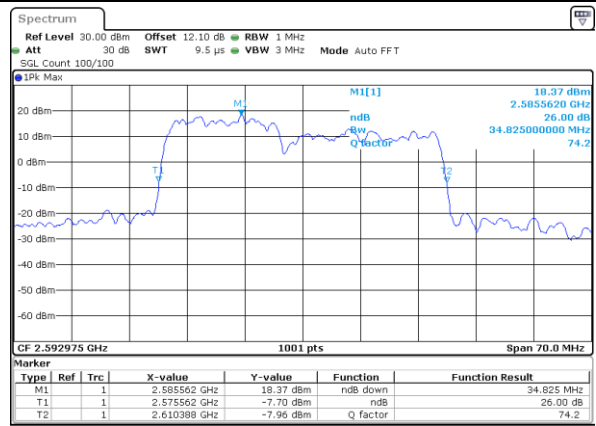
Date: 25.MAY.2023 14:37:23

Middle Channel / 15MHz+15MHz



Date: 25.MAY.2023 14:48:17

Middle Channel / 15MHz+20MHz



Date: 25.MAY.2023 14:52:07