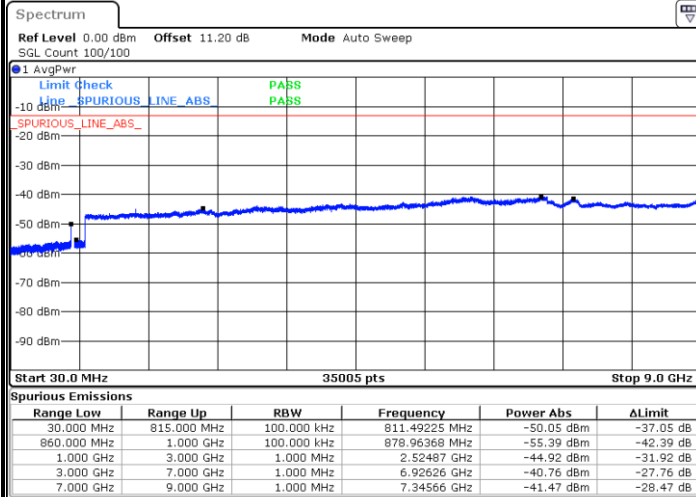




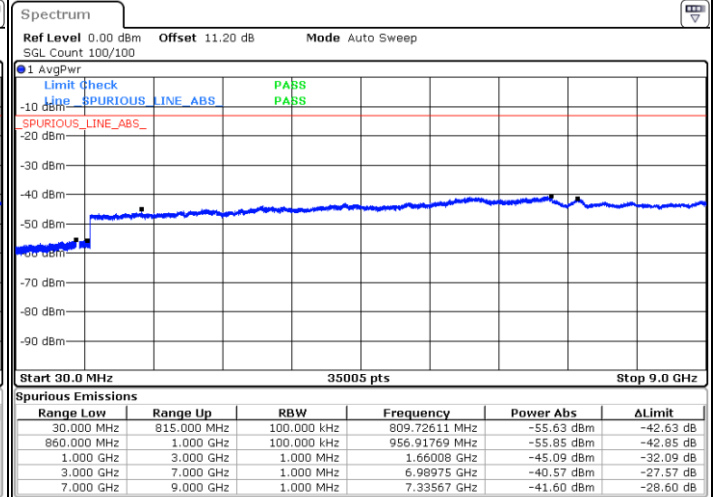
LTE Band 26 / 15MHz

Lowest Channel / QPSK



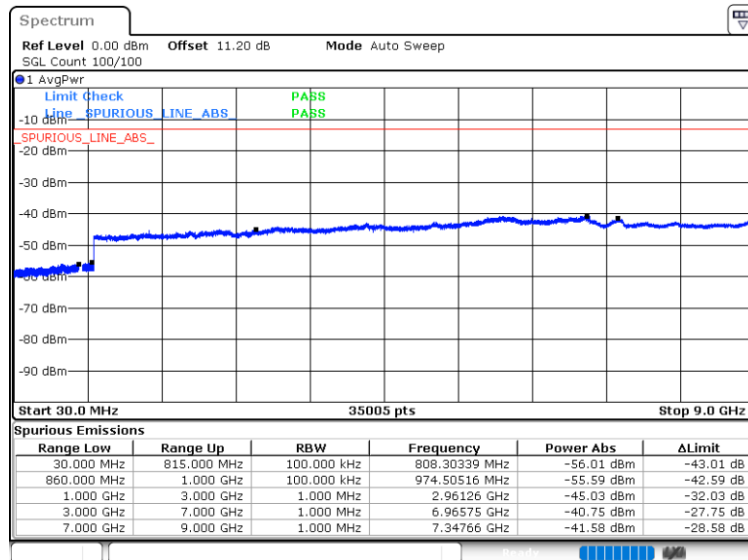
Date: 6.MAY.2022 10:37:26

Middle Channel / QPSK



Date: 6.MAY.2022 10:40:05

Highest Channel / QPSK



Date: 6.MAY.2022 10:44:43

Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0166	PASS
40	Normal Voltage	0.0035	
30	Normal Voltage	0.0071	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0053	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0001	
-20	Normal Voltage	0.0092	
-30	Normal Voltage	0.0037	
20	Maximum Voltage	0.0043	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0032	

Note:

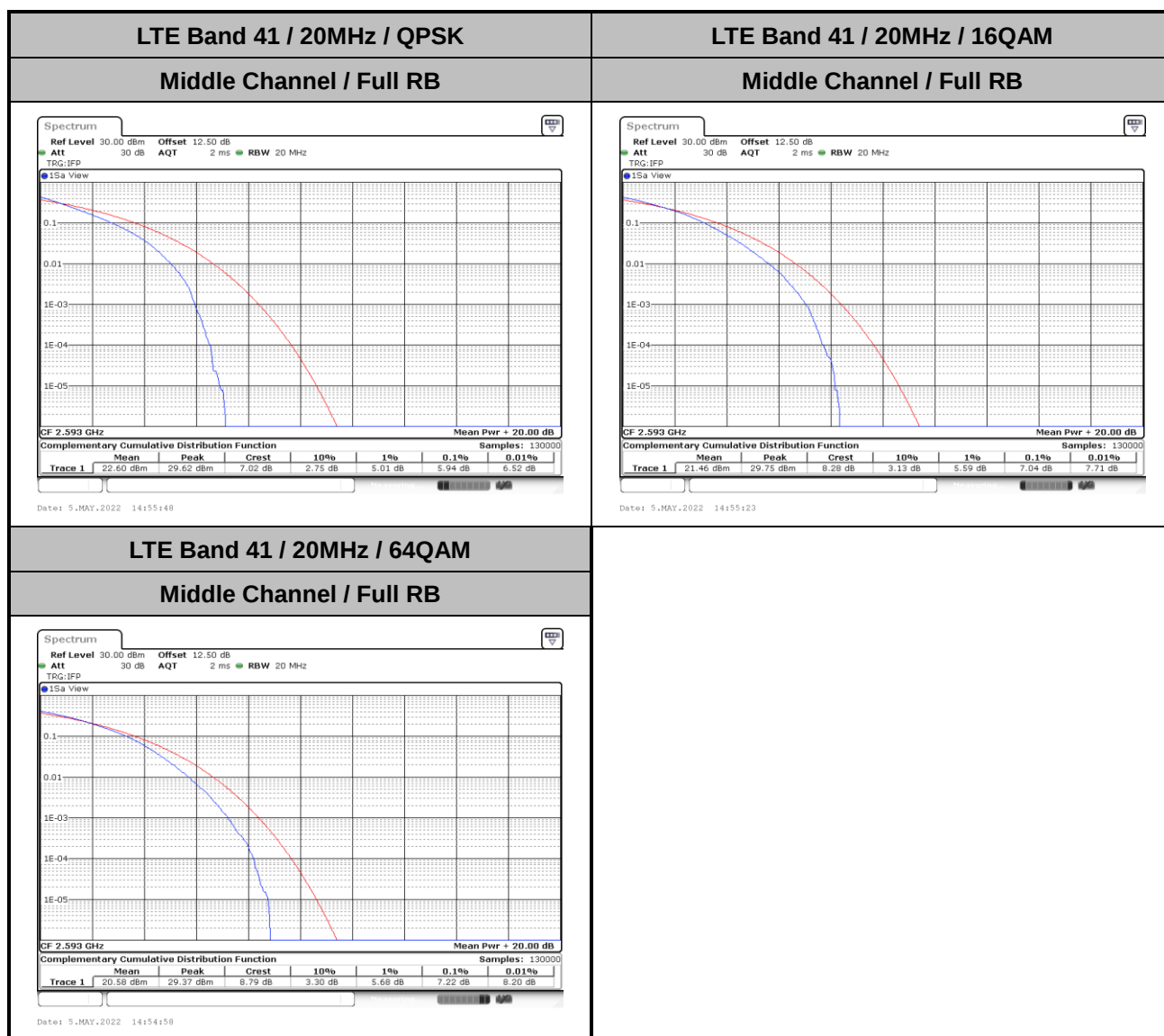
1. Normal Voltage = 3.3 V. ; Battery End Point (BEP) = 3.135 V. ; Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41

Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.94	7.04	7.22	-	PASS



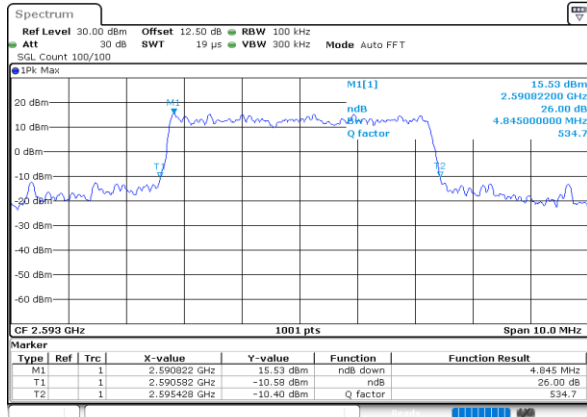
**26dB Bandwidth**

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	-	-	-	-	4.85	4.97	9.77	9.91	14.18	14.24	18.70	19.38
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	-	-	-	-	4.82	-	9.75	-	14.39	-	18.94	-

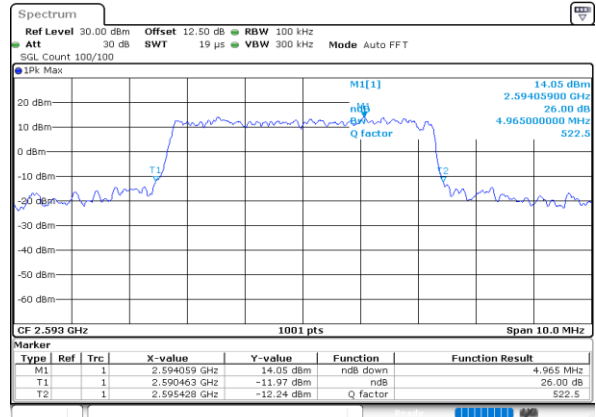


LTE Band 41

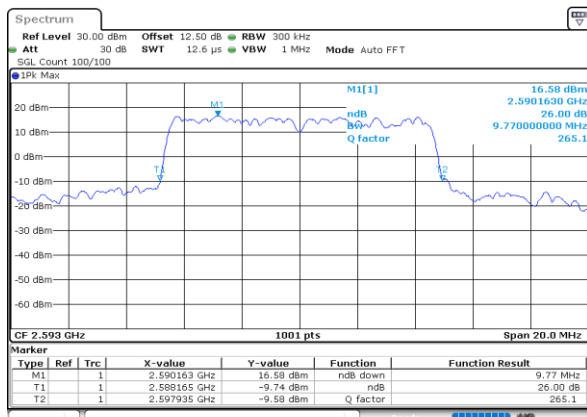
Middle Channel / 5MHz / QPSK



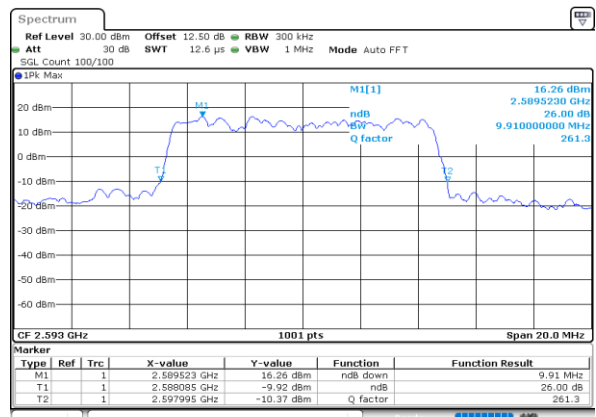
Middle Channel / 5MHz / 16QAM



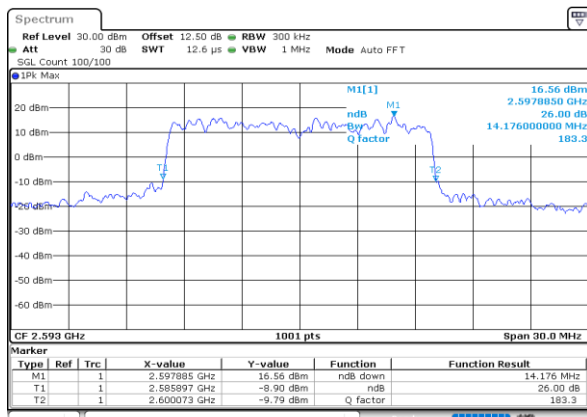
Middle Channel / 10MHz / QPSK



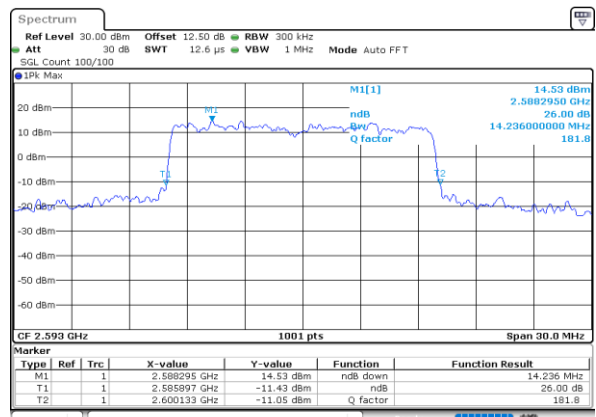
Middle Channel / 10MHz / 16QAM



Middle Channel / 15MHz / QPSK



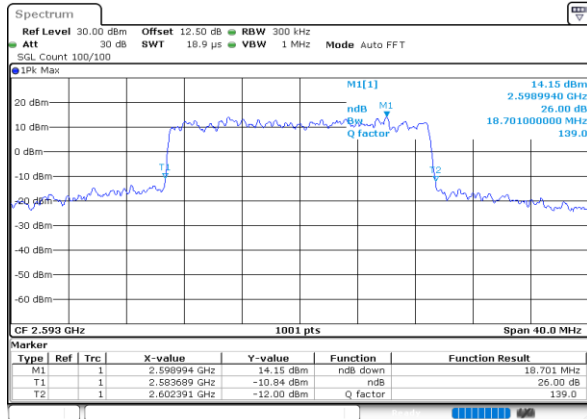
Middle Channel / 15MHz / 16QAM



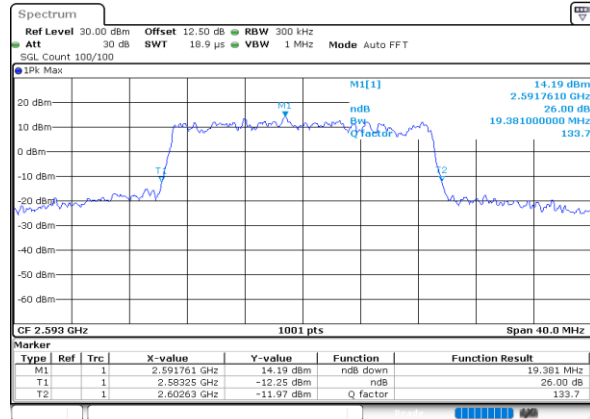


LTE Band 41

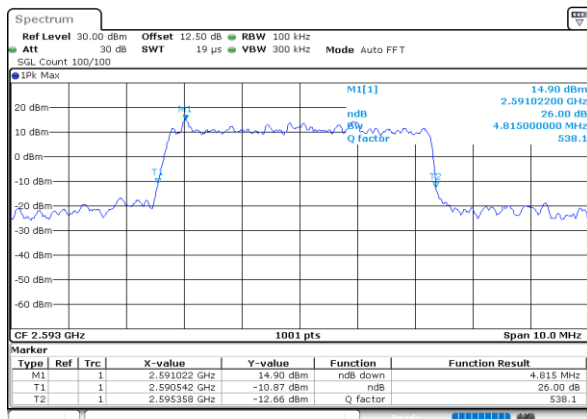
Middle Channel / 20MHz / QPSK



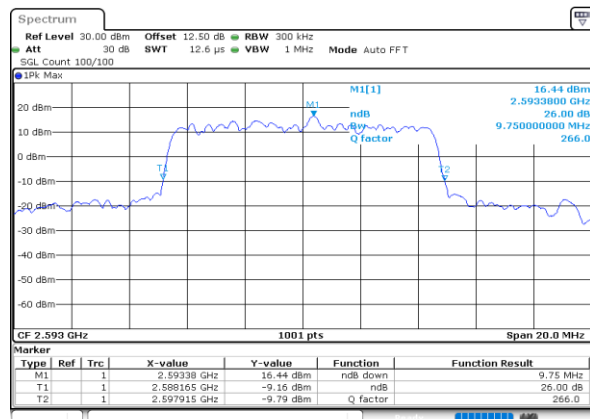
Middle Channel / 20MHz / 16QAM



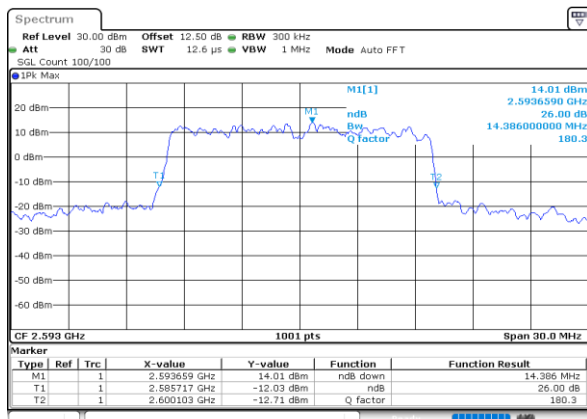
Middle Channel / 5MHz / 64QAM



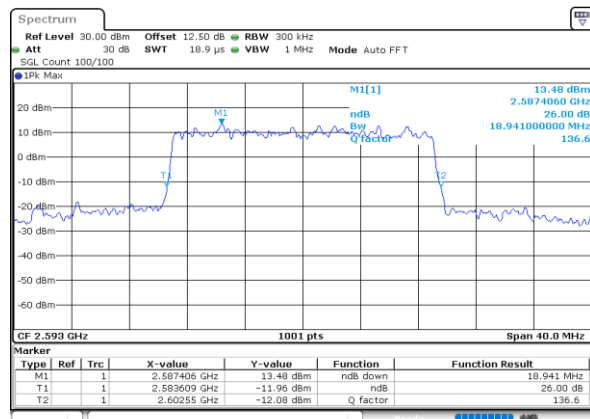
Middle Channel / 10MHz / 64QAM



Middle Channel / 15MHz / 64QAM



Middle Channel / 20MHz / 64QAM



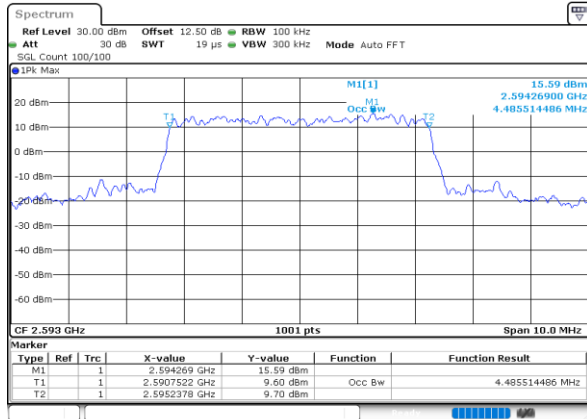
**Occupied Bandwidth**

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	-	-	-	-	4.49	4.50	9.01	9.05	13.49	13.46	17.90	17.86
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	-	-	-	-	4.51	-	9.01	-	13.40	-	17.86	-

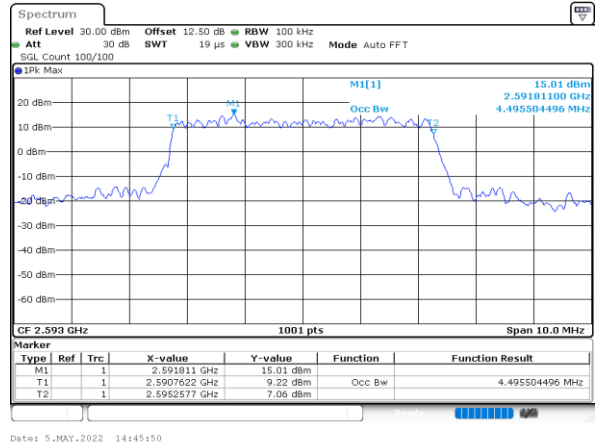


LTE Band 41

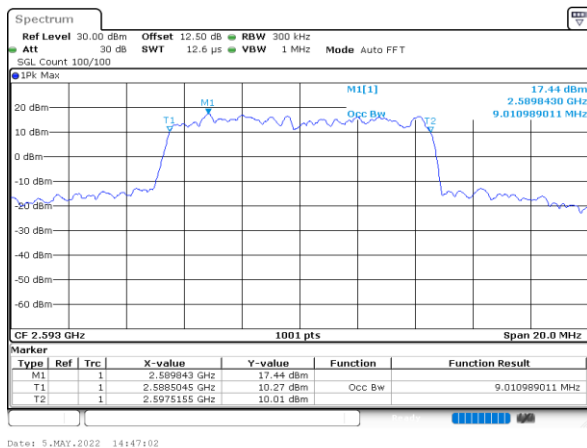
Middle Channel / 5MHz / QPSK



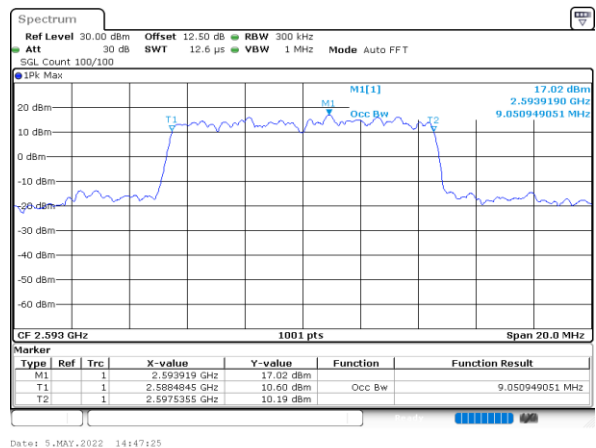
Middle Channel / 5MHz / 16QAM



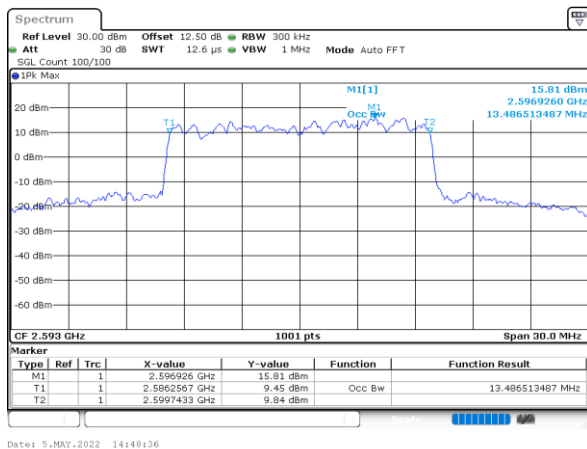
Middle Channel / 10MHz / QPSK



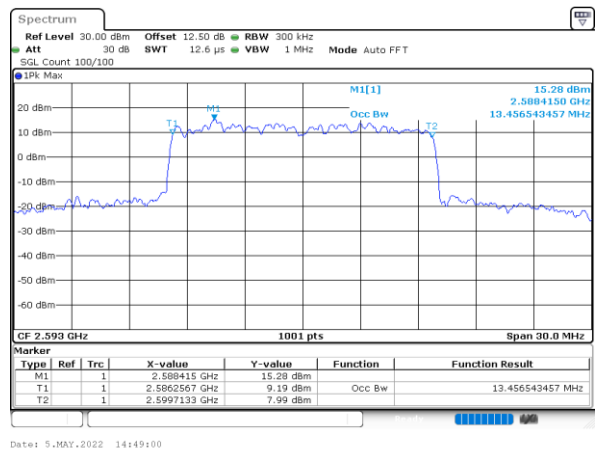
Middle Channel / 10MHz / 16QAM



Middle Channel / 15MHz / QPSK



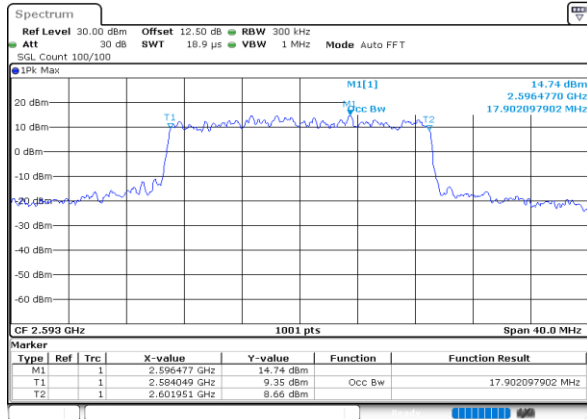
Middle Channel / 15MHz / 16QAM



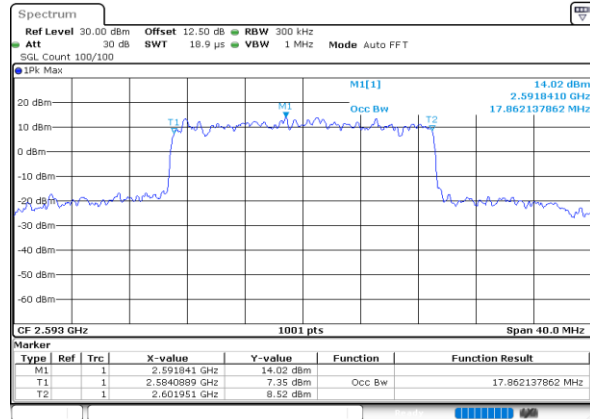


LTE Band 41

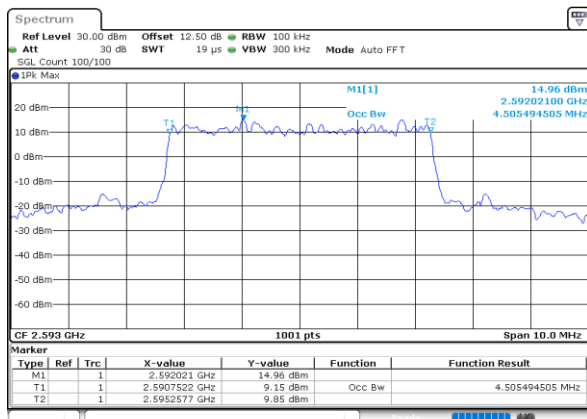
Middle Channel / 20MHz / QPSK



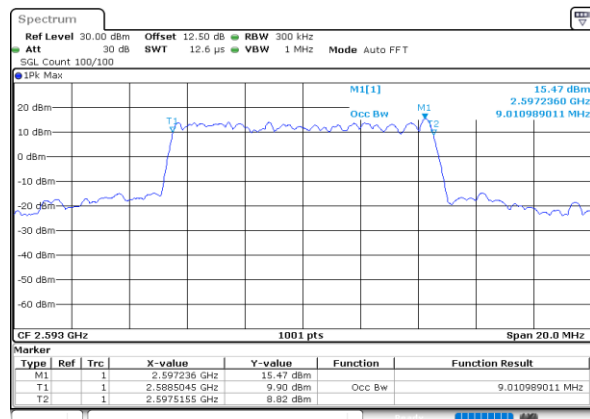
Middle Channel / 20MHz / 16QAM



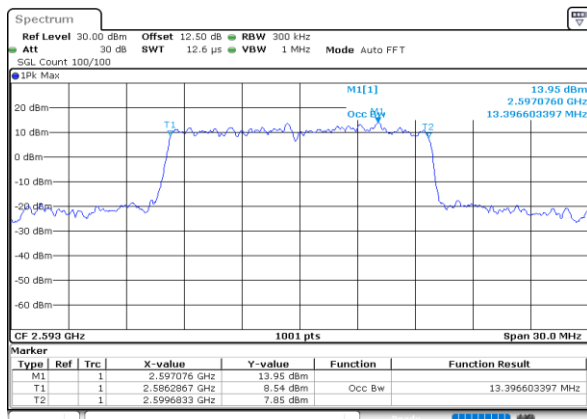
Middle Channel / 5MHz / 64QAM



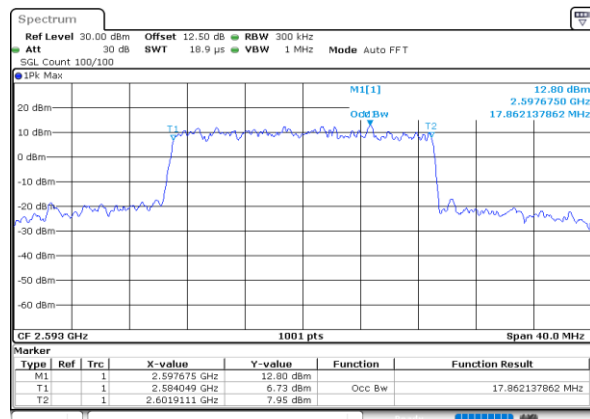
Middle Channel / 10MHz / 64QAM

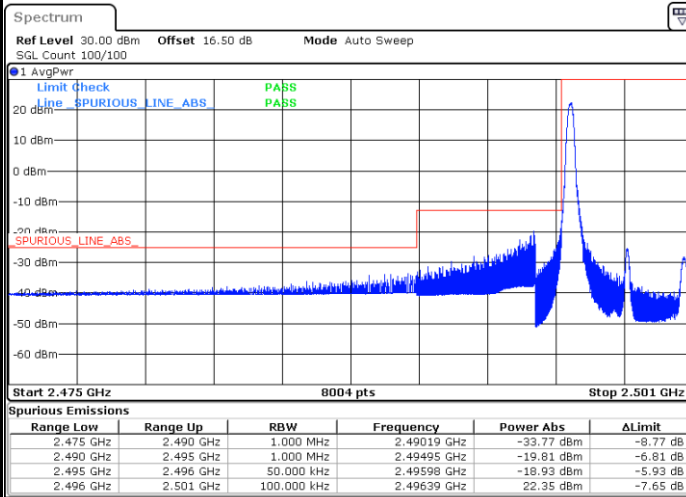
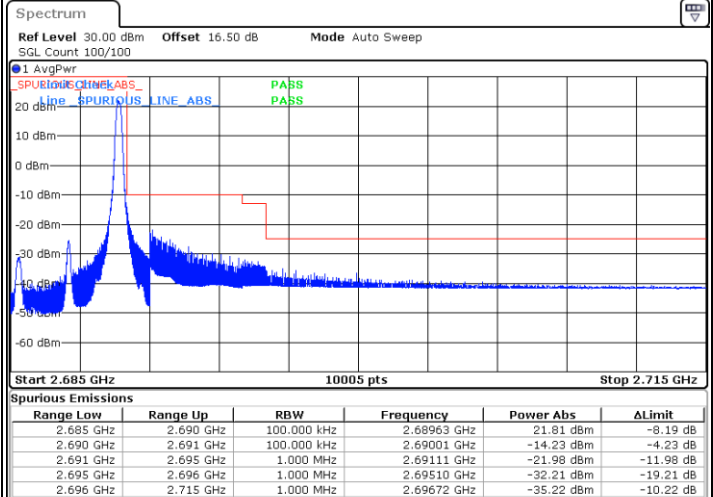
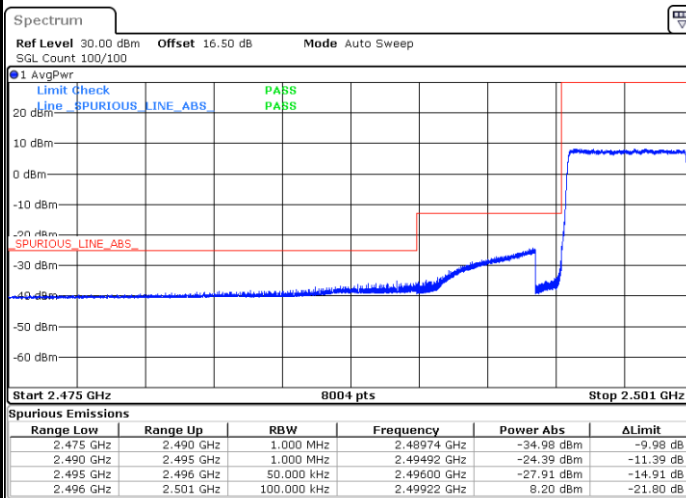
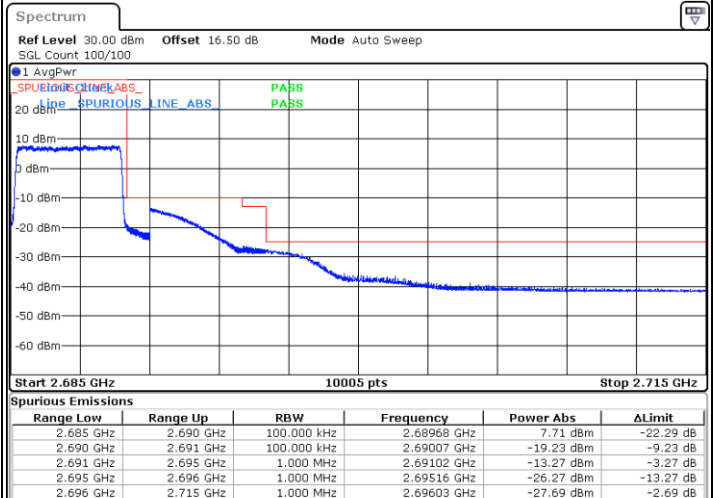


Middle Channel / 15MHz / 64QAM



Middle Channel / 20MHz / 64QAM

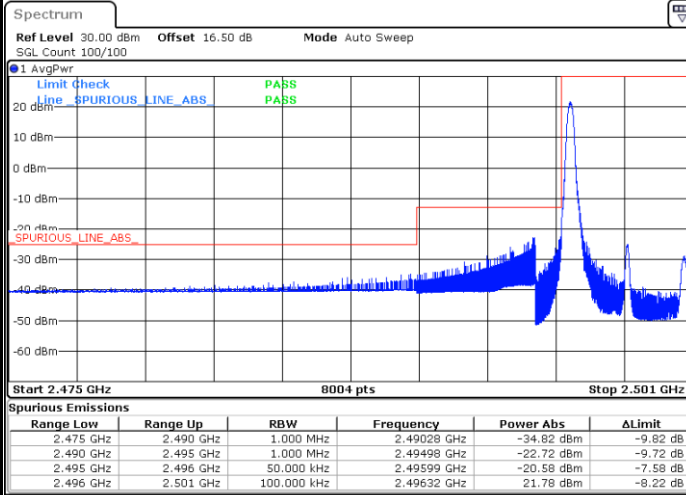


**Conducted Band Edge****LTE Band 41 / 5MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**



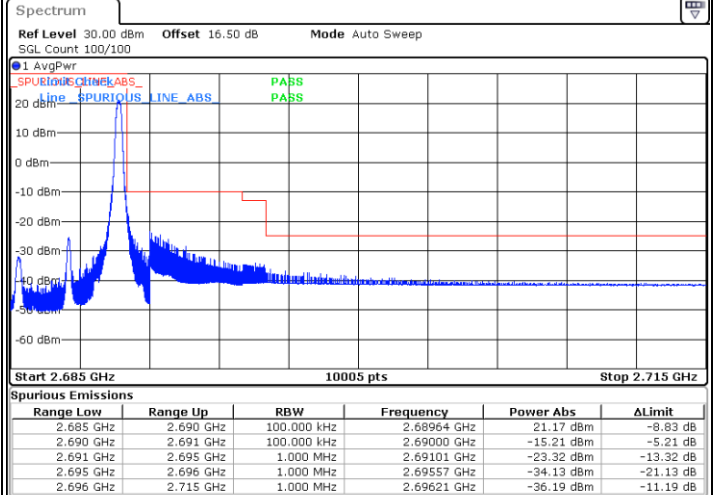
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



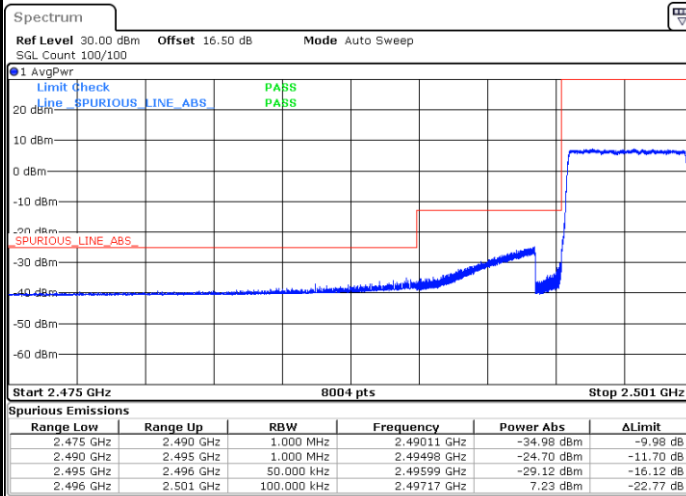
Date: 5.MAY.2022 13:43:43

Highest Band Edge / 1 RB



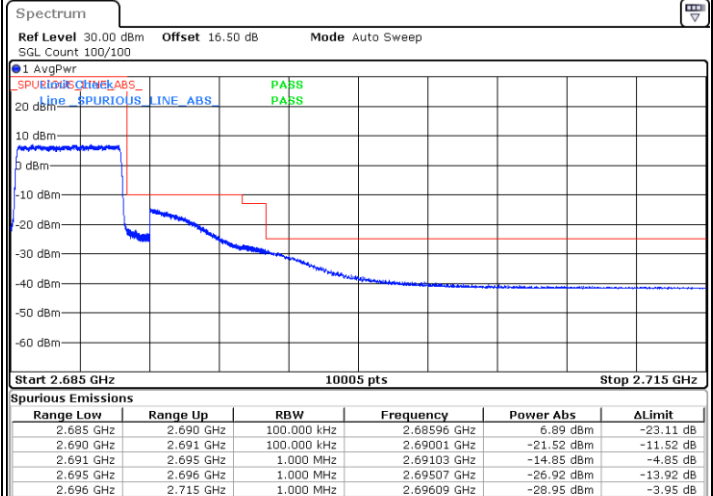
Date: 5.MAY.2022 13:47:17

Lowest Band Edge / Full RB



Date: 5.MAY.2022 13:45:30

Highest Band Edge / Full RB

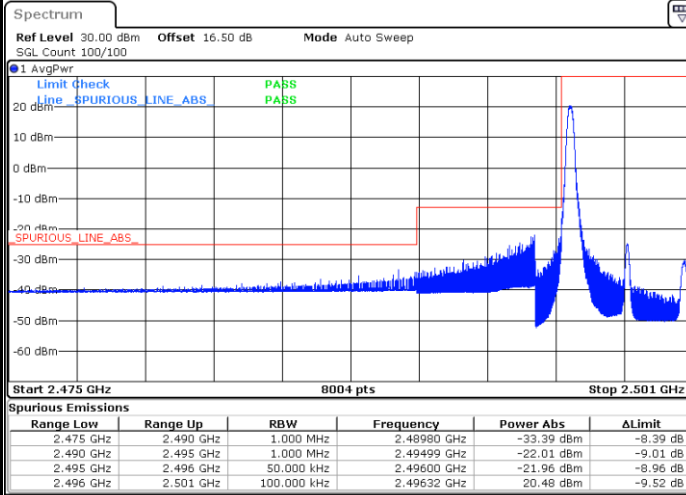


Date: 5.MAY.2022 13:49:05

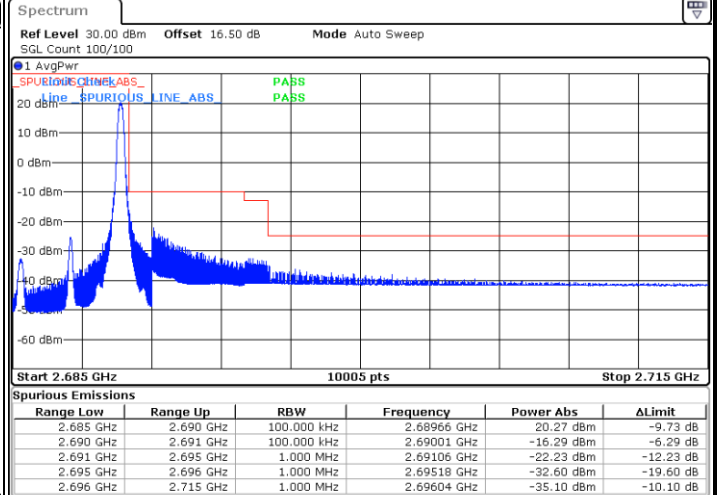


LTE Band 41 / 5MHz / 64QAM

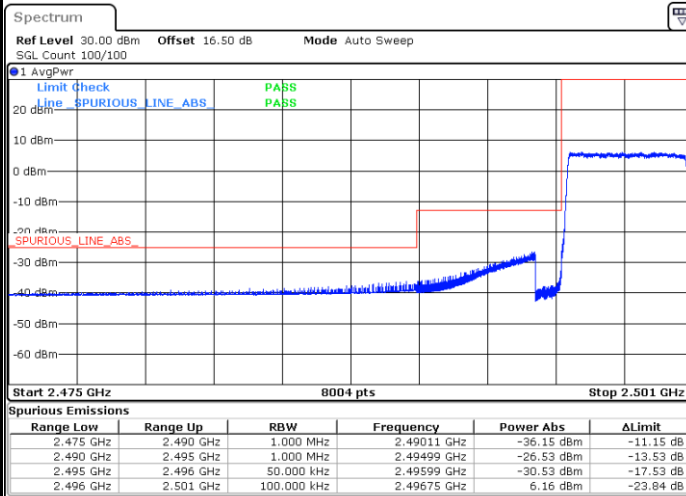
Lowest Band Edge / 1RB



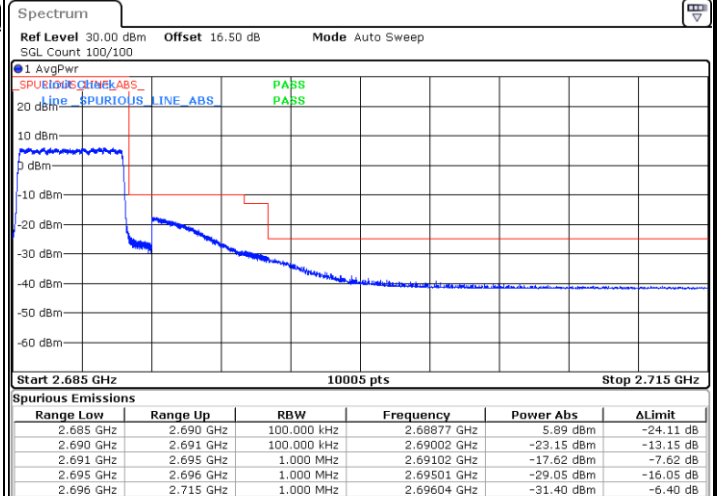
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



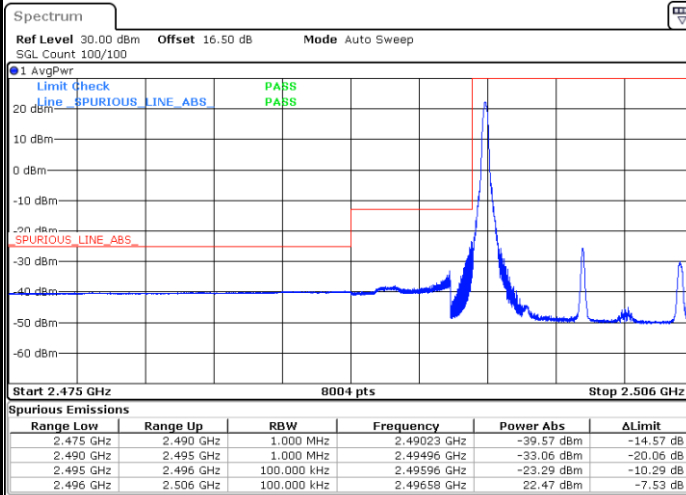
Highest Band Edge / Full RB





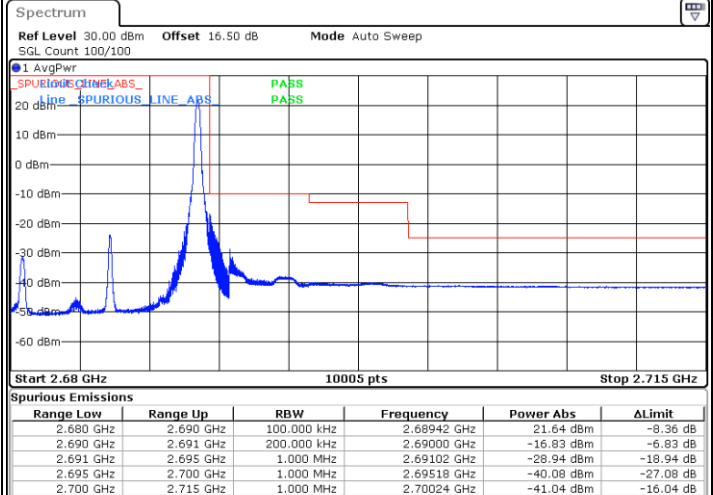
LTE Band 41 / 10MHz / QPSK

Lowest Band Edge / 1 RB



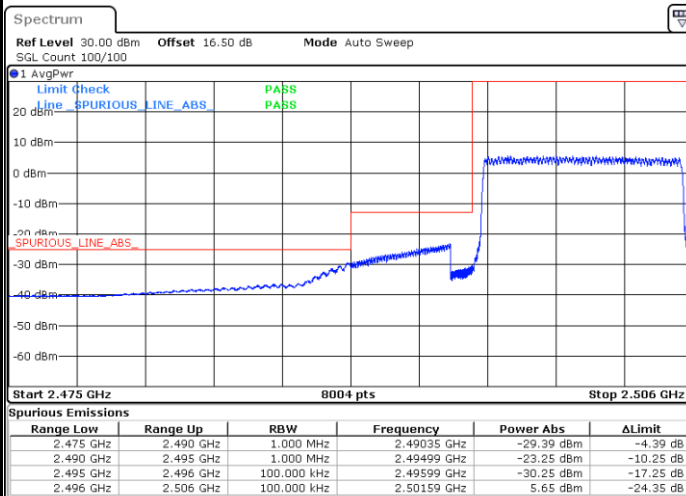
Date: 5.MAY.2022 13:53:33

Highest Band Edge / 1 RB



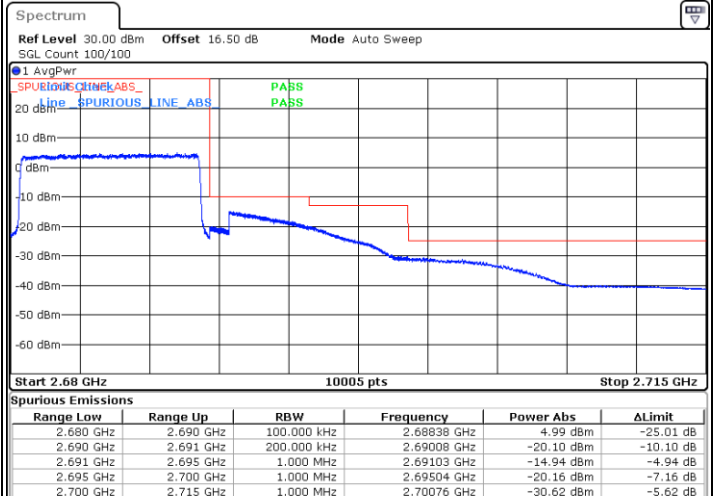
Date: 5.MAY.2022 13:57:06

Lowest Band Edge / Full RB



Date: 5.MAY.2022 13:55:19

Highest Band Edge / Full RB

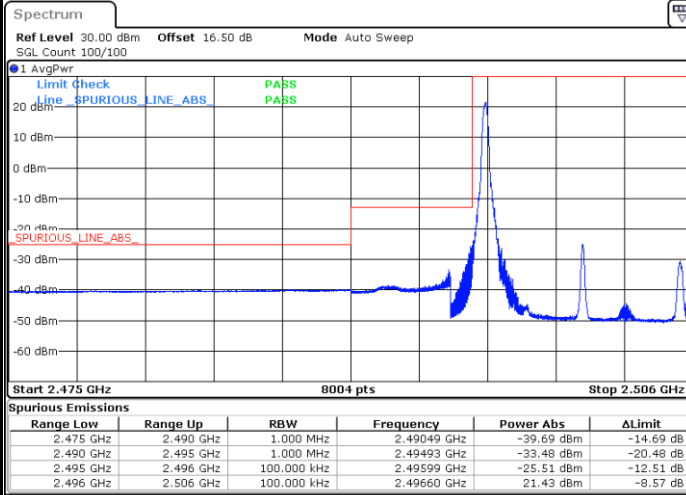


Date: 5.MAY.2022 13:58:53

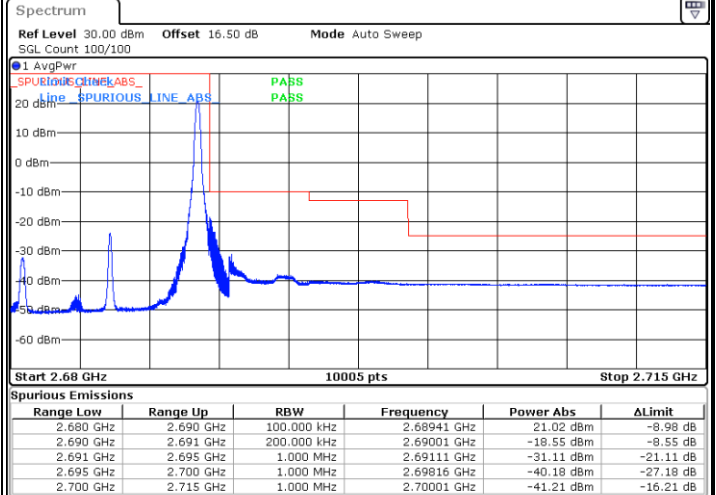


LTE Band 41 / 10MHz / 16QAM

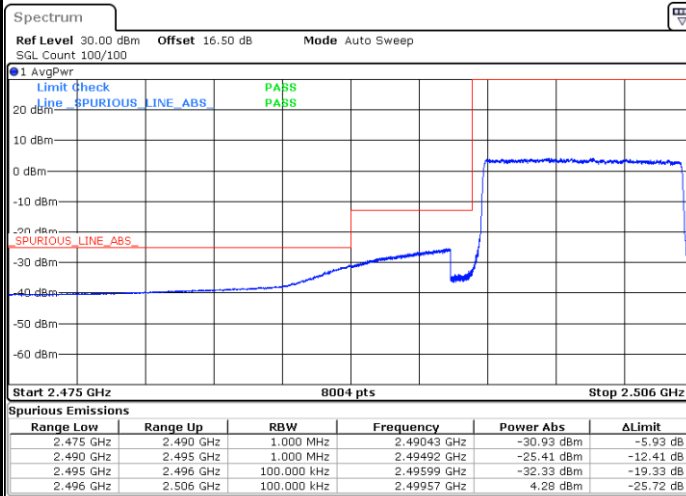
Lowest Band Edge / 1 RB



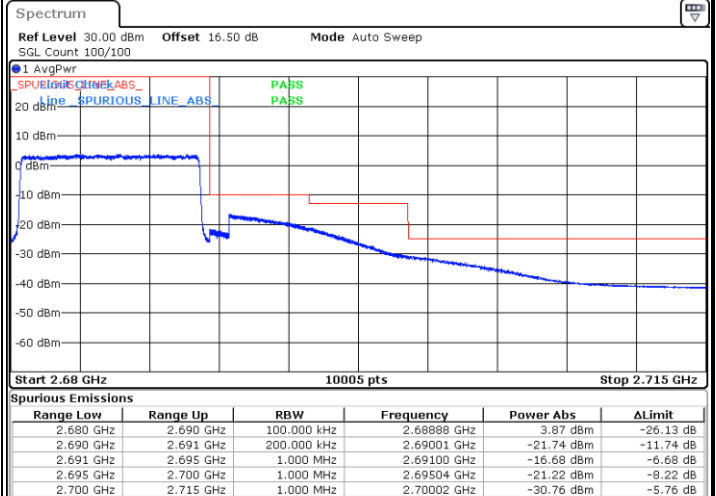
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



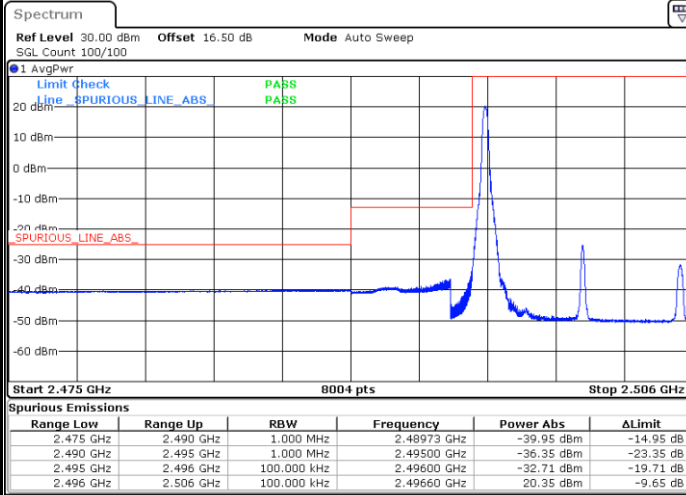
Highest Band Edge / Full RB



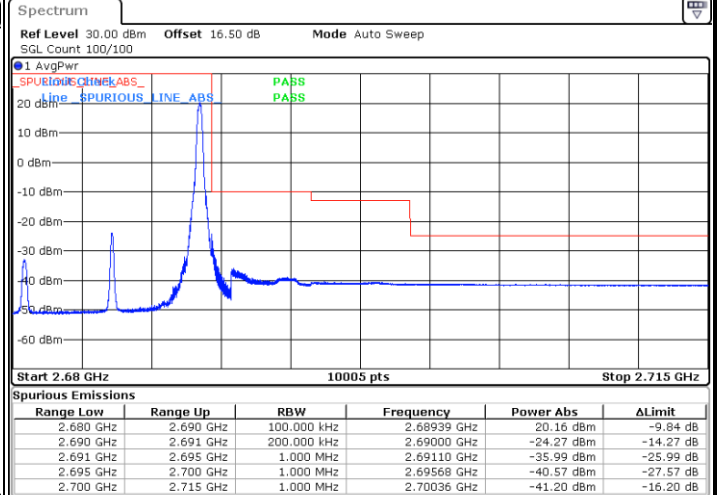


LTE Band 41 / 10MHz / 64QAM

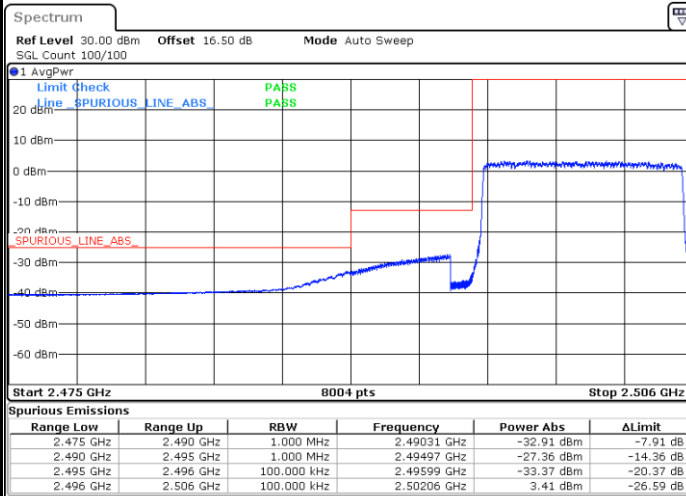
Lowest Band Edge / 1 RB



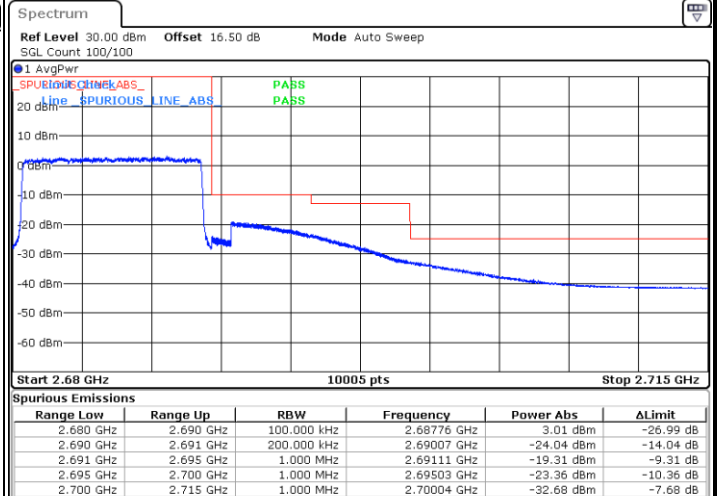
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



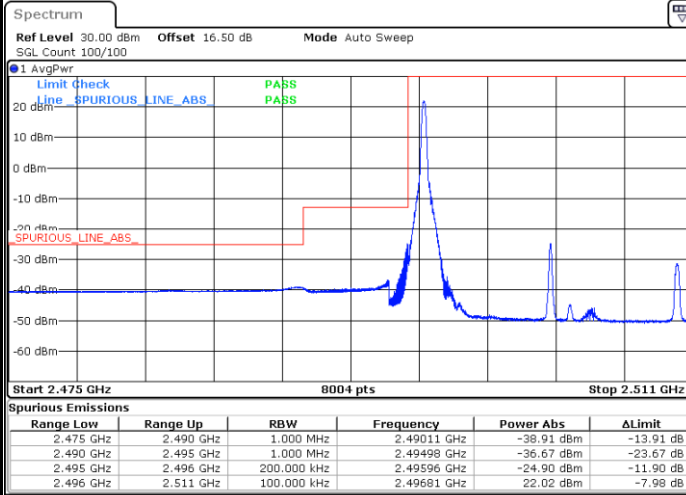
Highest Band Edge / Full RB





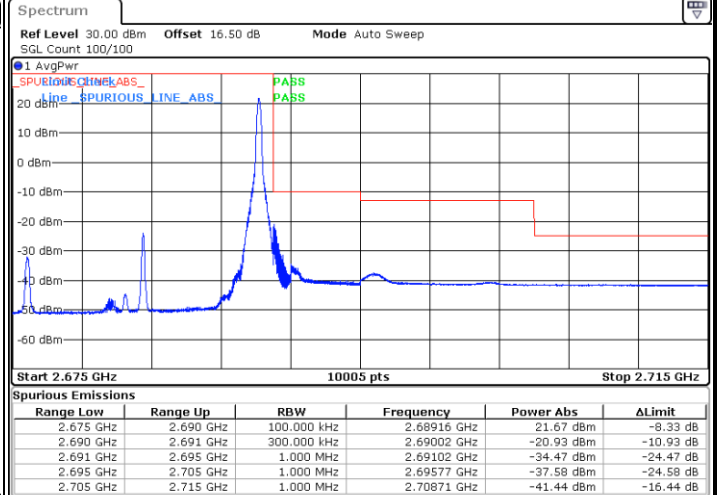
LTE Band 41 / 15MHz / QPSK

Lowest Band Edge / 1 RB



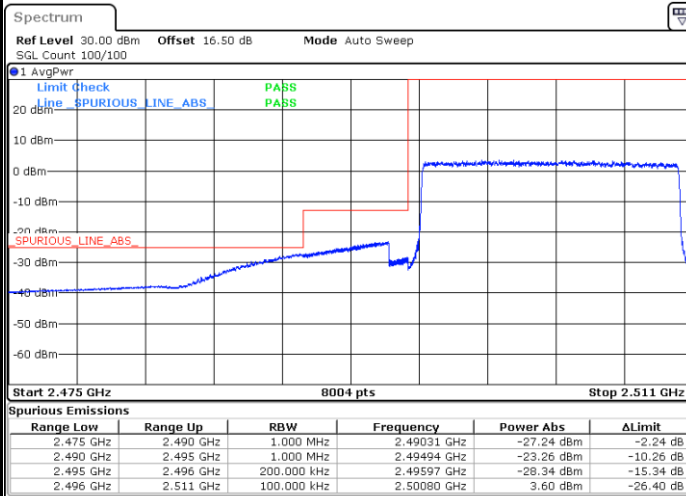
Date: 5.MAY.2022 14:07:48

Highest Band Edge / 1 RB



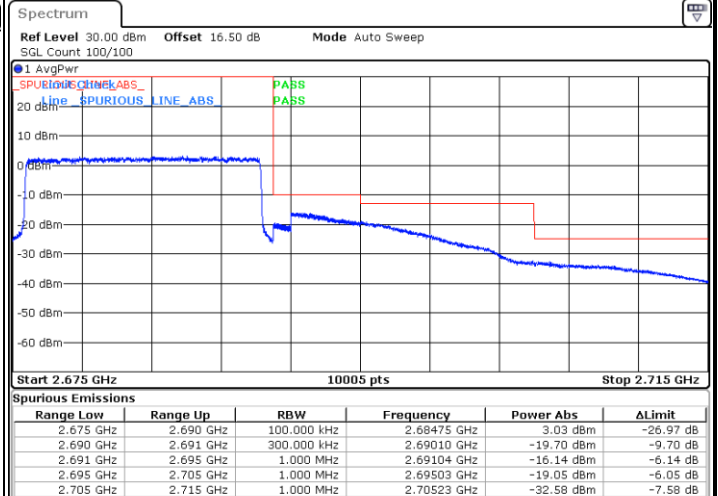
Date: 5.MAY.2022 14:11:21

Lowest Band Edge / Full RB



Date: 5.MAY.2022 14:09:35

Highest Band Edge / Full RB

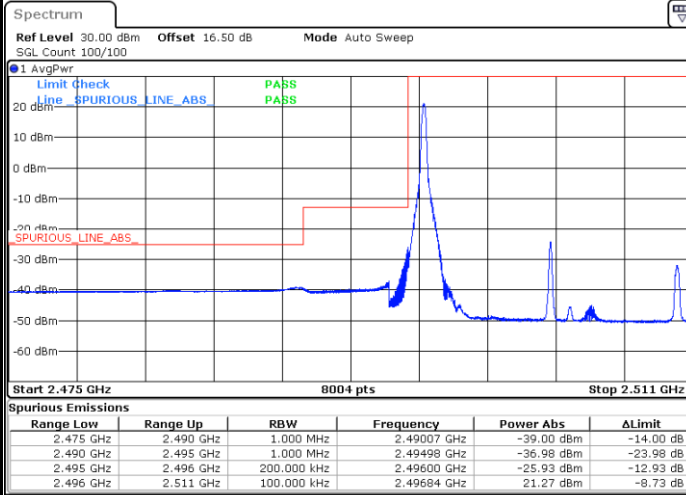


Date: 5.MAY.2022 14:13:09



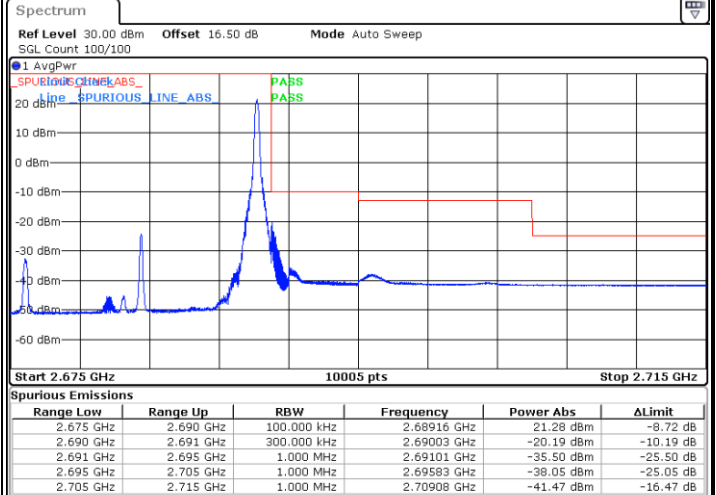
LTE Band 41 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



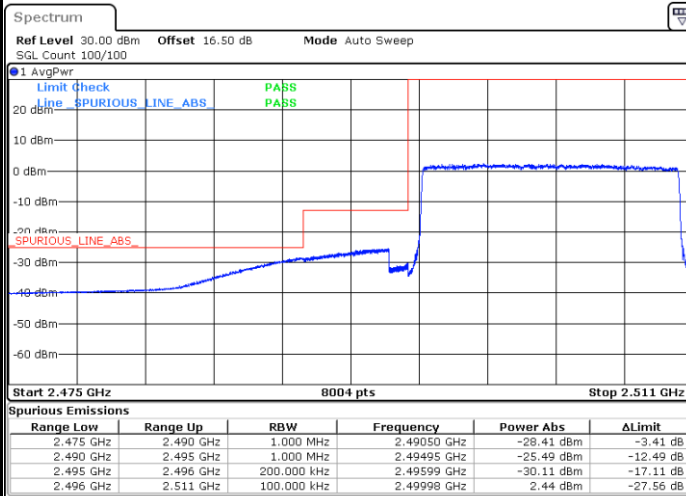
Date: 5.MAY.2022 14:08:41

Highest Band Edge / 1 RB



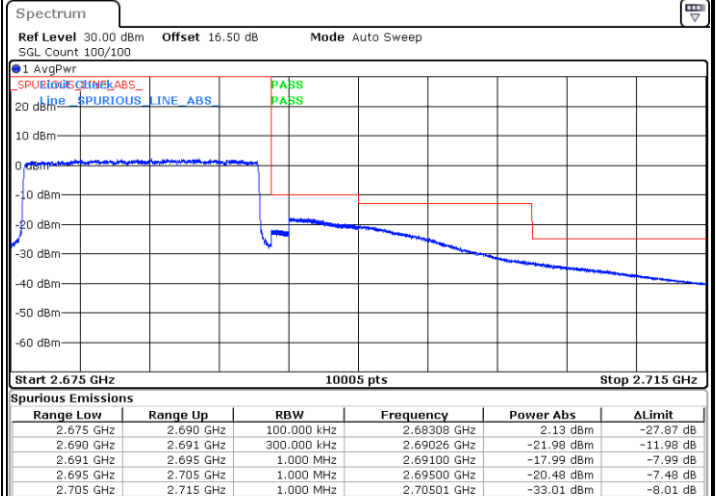
Date: 5.MAY.2022 14:12:15

Lowest Band Edge / Full RB



Date: 5.MAY.2022 14:10:27

Highest Band Edge / Full RB

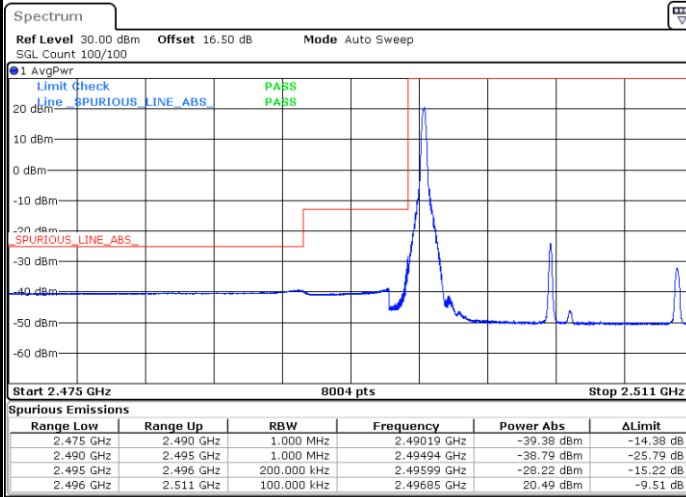


Date: 5.MAY.2022 14:14:03



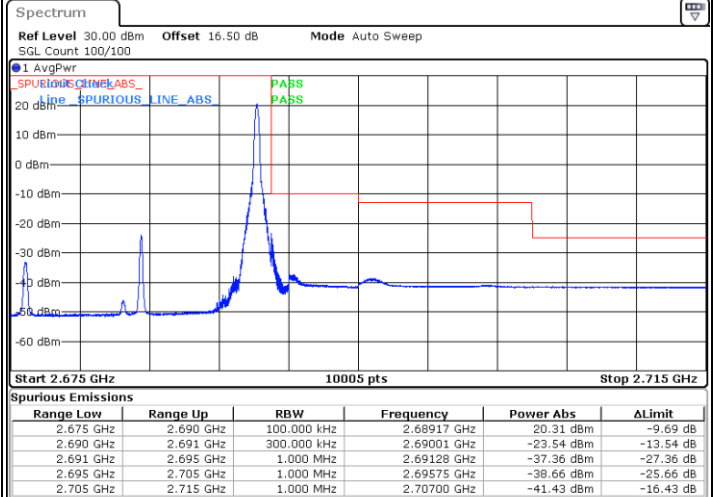
LTE Band 41 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



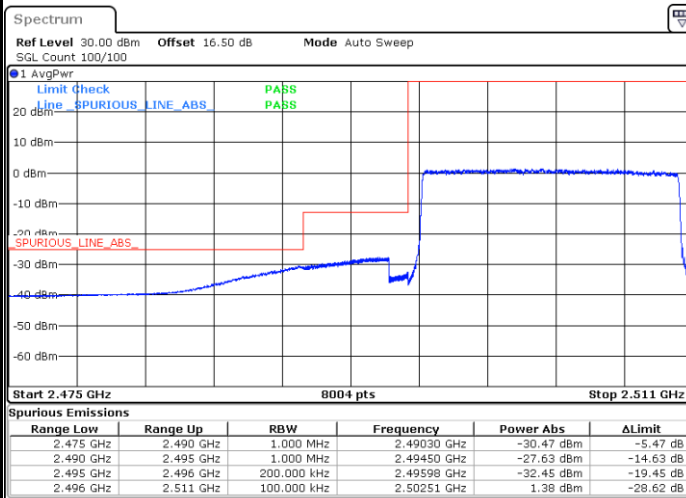
Date: 5.MAY.2022 14:04:14

Highest Band Edge / 1 RB



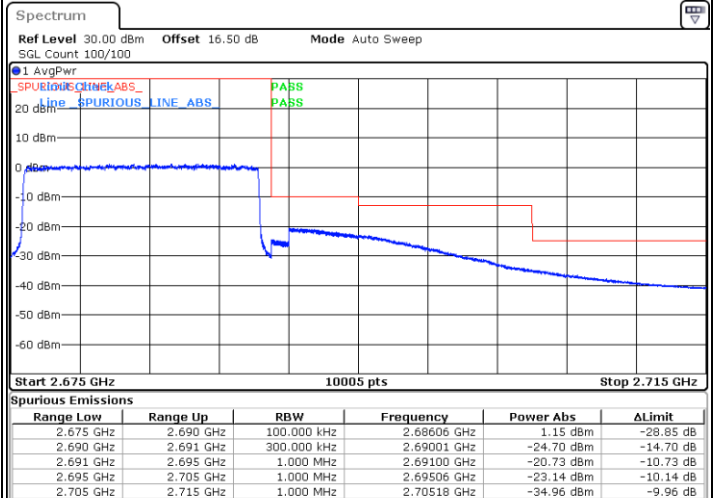
Date: 5.MAY.2022 14:06:01

Lowest Band Edge / Full RB



Date: 5.MAY.2022 14:05:07

Highest Band Edge / Full RB

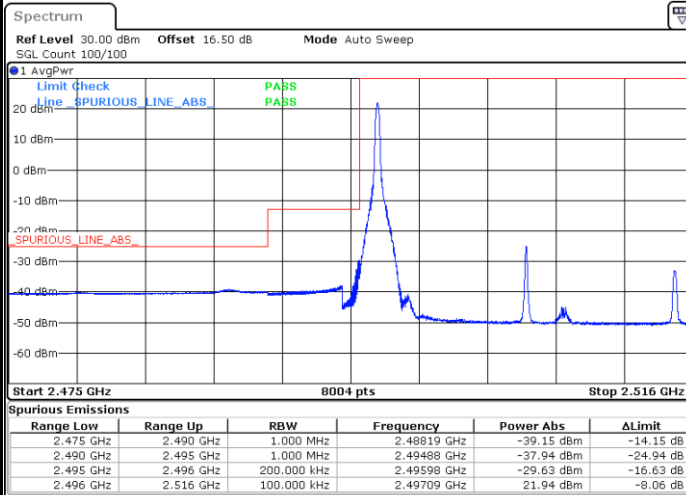


Date: 5.MAY.2022 14:06:55



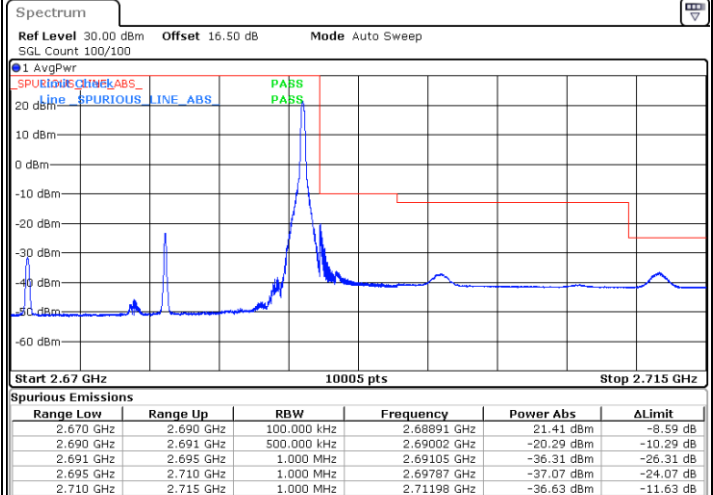
LTE Band 41 / 20MHz / QPSK

Lowest Band Edge / 1 RB



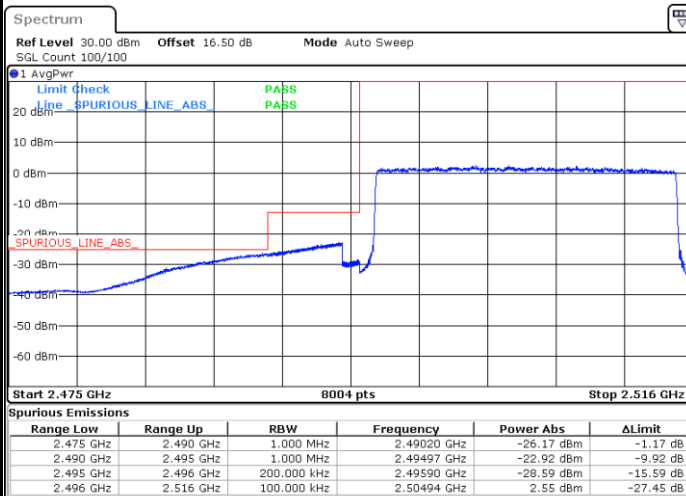
Date: 5.MAY.2022 14:14:57

Highest Band Edge / 1 RB



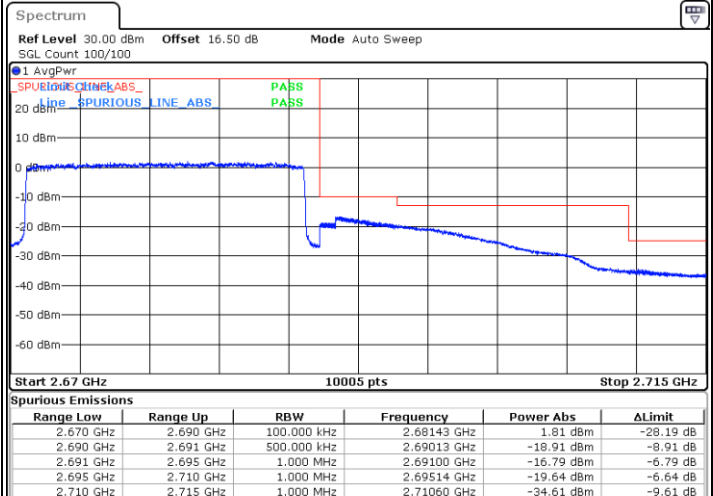
Date: 5.MAY.2022 14:18:31

Lowest Band Edge / Full RB



Date: 5.MAY.2022 14:16:43

Highest Band Edge / Full RB

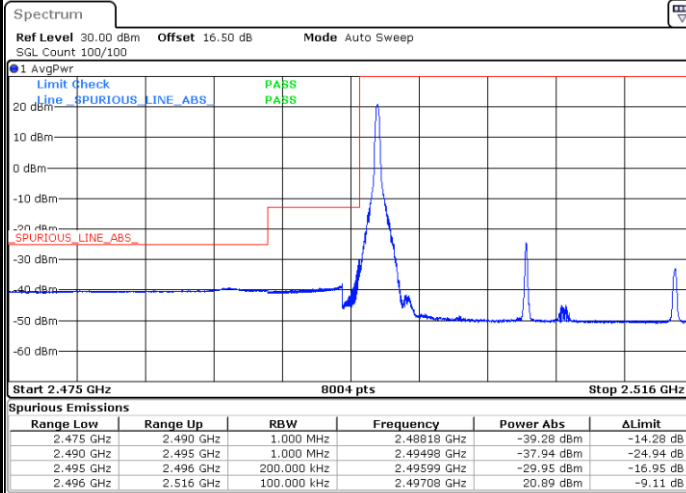


Date: 5.MAY.2022 14:21:13



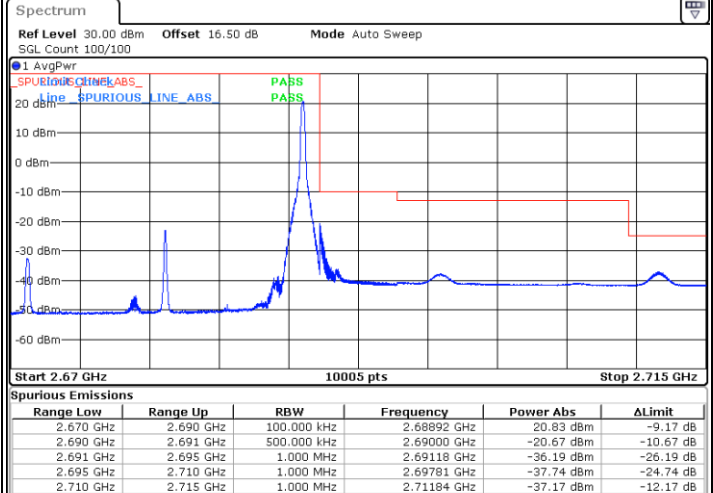
LTE Band 41 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



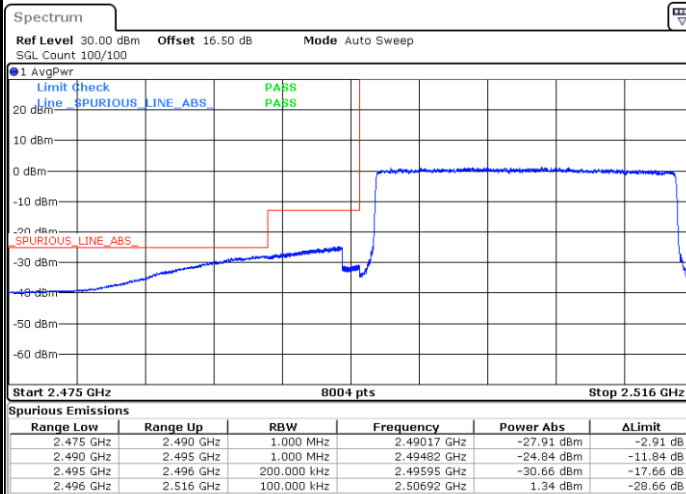
Date: 5.MAY.2022 14:15:50

Highest Band Edge / 1 RB



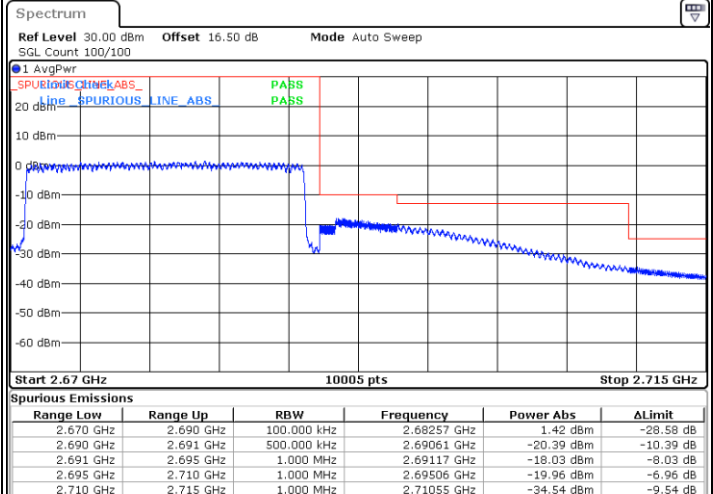
Date: 5.MAY.2022 14:19:25

Lowest Band Edge / Full RB



Date: 5.MAY.2022 14:17:37

Highest Band Edge / Full RB

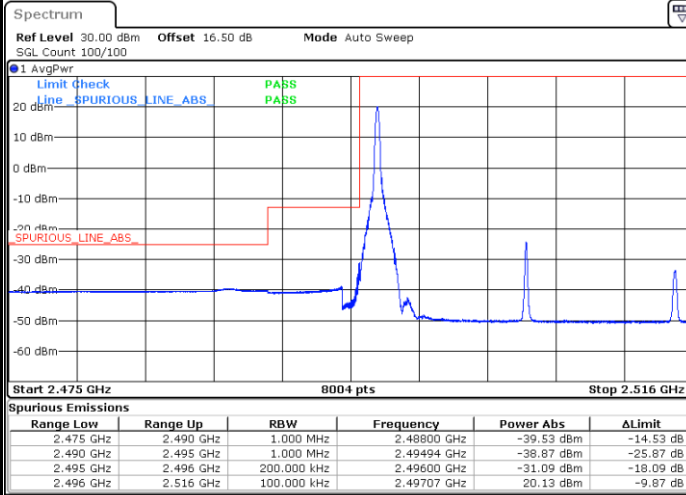


Date: 5.MAY.2022 14:20:19



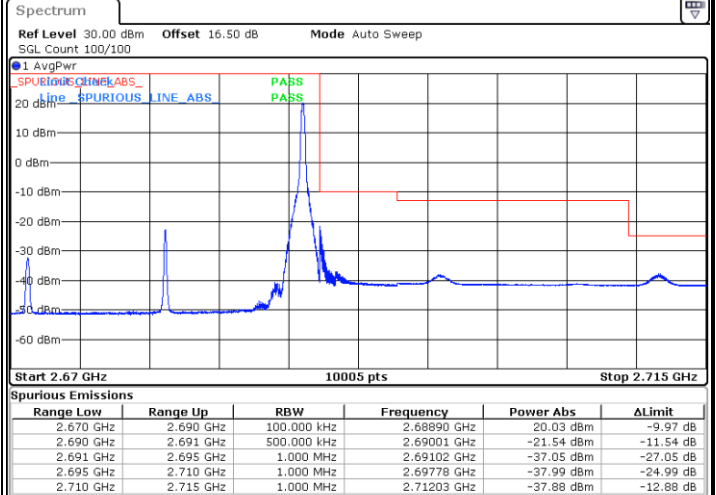
LTE Band 41 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



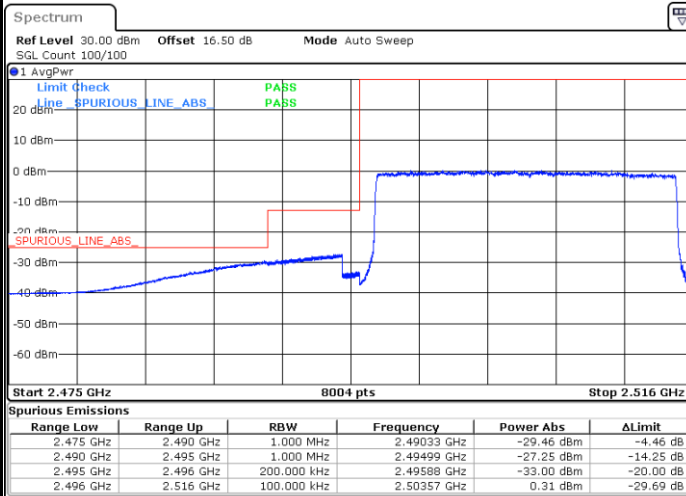
Date: 5.MAY.2022 14:22:07

Highest Band Edge / 1 RB



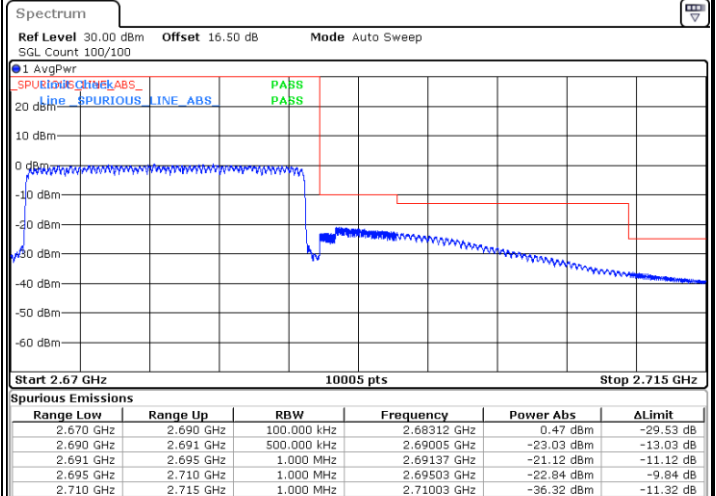
Date: 5.MAY.2022 14:23:54

Lowest Band Edge / Full RB



Date: 5.MAY.2022 14:23:00

Highest Band Edge / Full RB



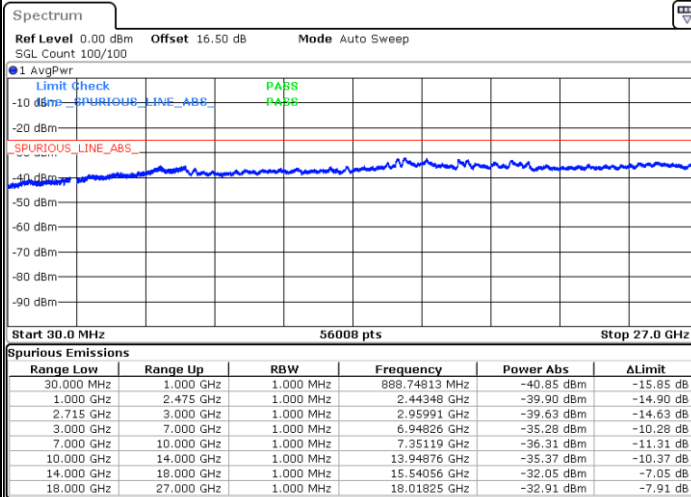
Date: 5.MAY.2022 14:24:48



Conducted Spurious Emission

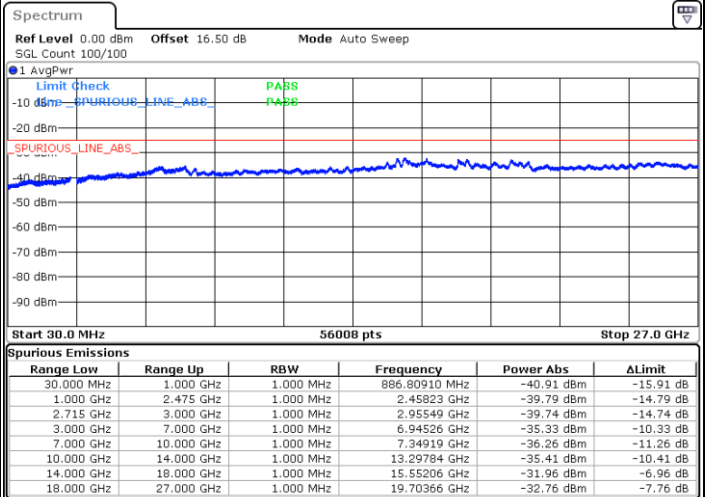
LTE Band 41 / 5MHz

Lowest Channel / QPSK



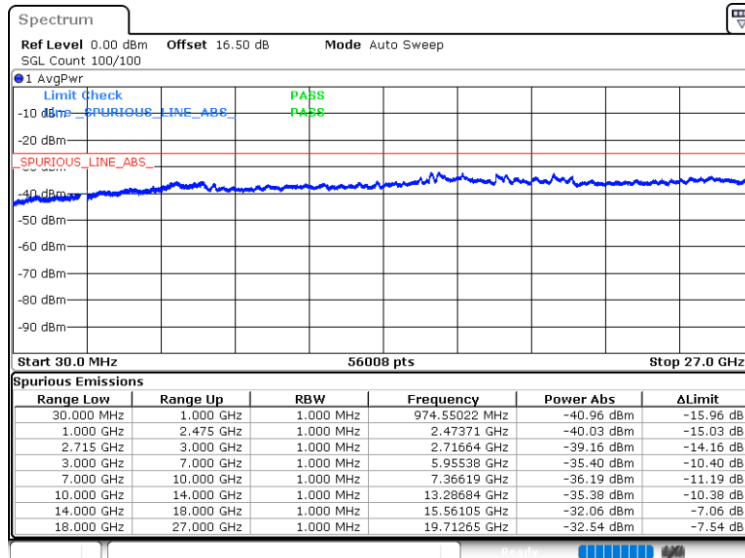
Date: 5.MAY.2022 14:26:12

Middle Channel / QPSK



Date: 5.MAY.2022 14:27:35

Highest Channel / QPSK

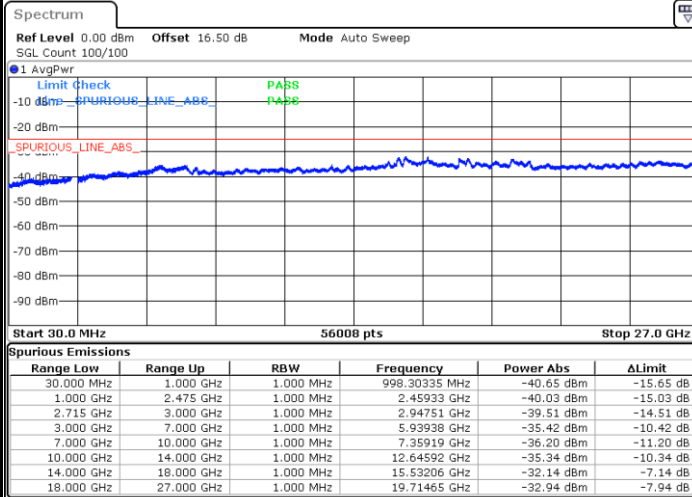


Date: 5.MAY.2022 14:28:58



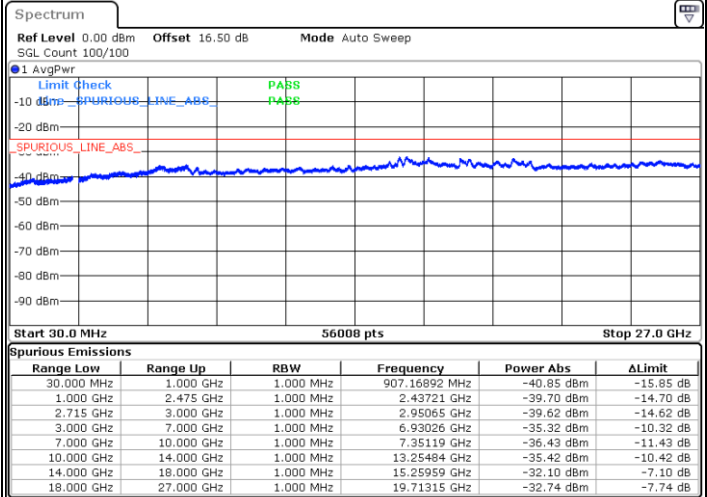
LTE Band 41 / 10MHz

Lowest Channel / QPSK



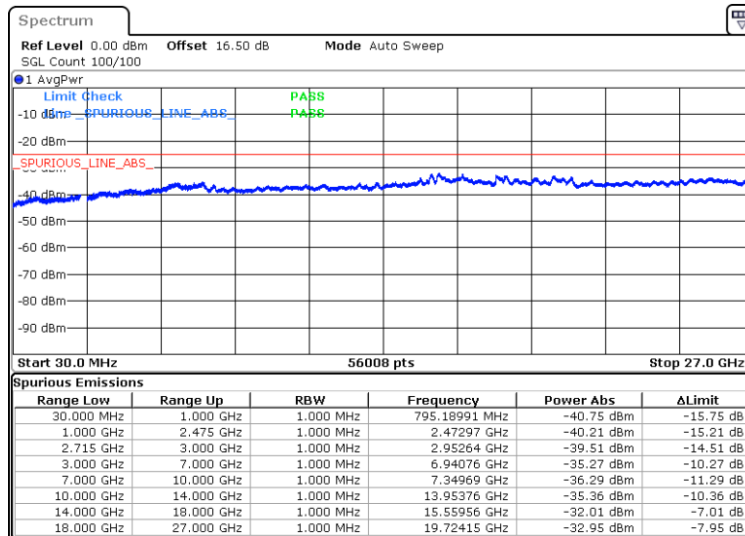
Date: 5.MAY.2022 14:30:22

Middle Channel / QPSK



Date: 5.MAY.2022 14:31:45

Highest Channel / QPSK

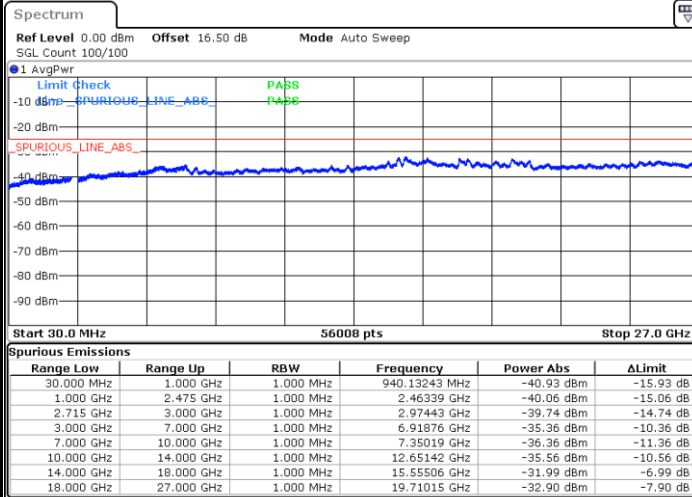


Date: 5.MAY.2022 14:33:09



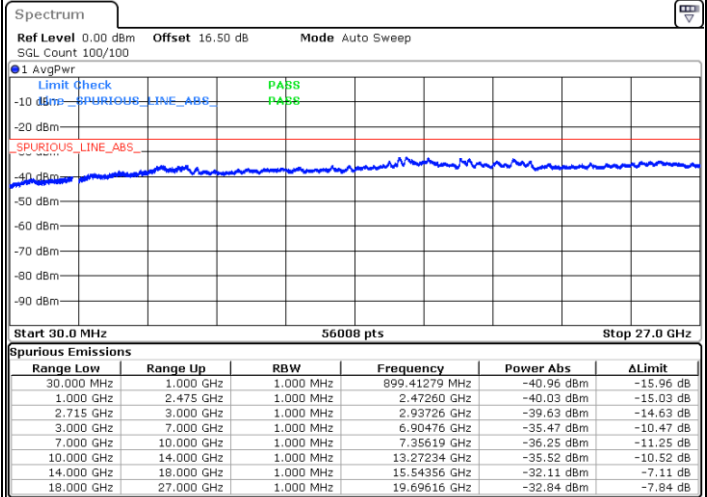
LTE Band 41 / 15MHz

Lowest Channel / QPSK



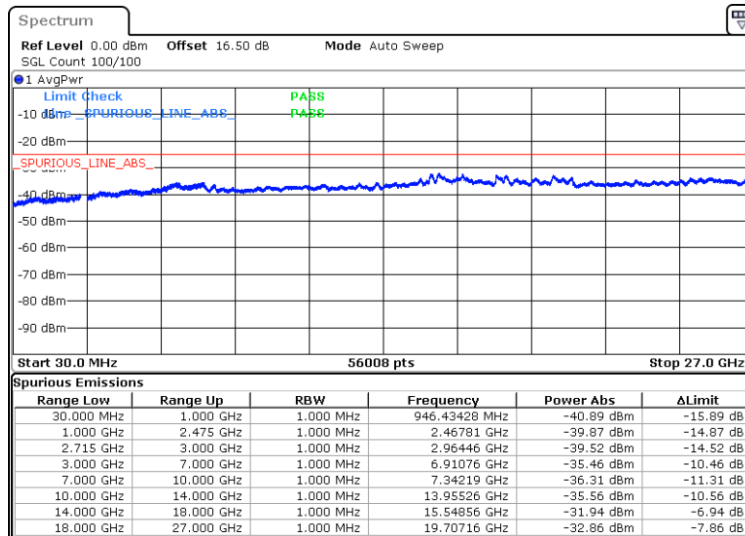
Date: 5.MAY.2022 14:34:33

Middle Channel / QPSK



Date: 5.MAY.2022 14:35:56

Highest Channel / QPSK

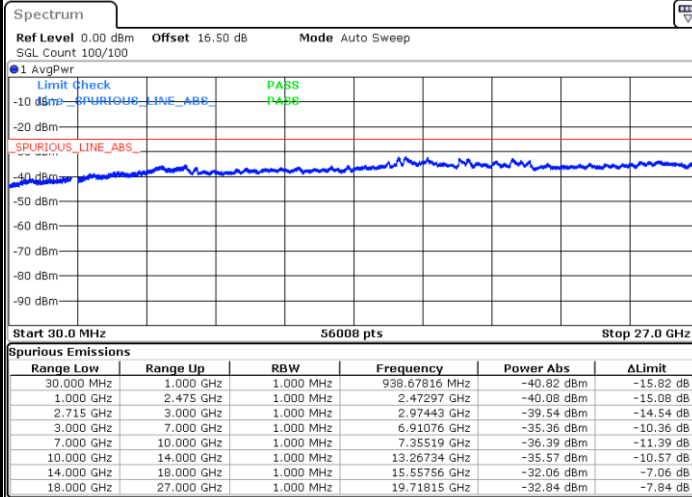


Date: 5.MAY.2022 14:37:18



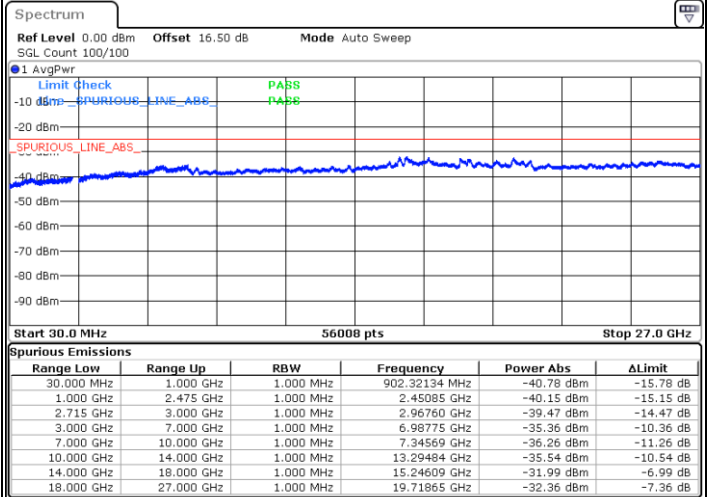
LTE Band 41 / 20MHz

Lowest Channel / QPSK



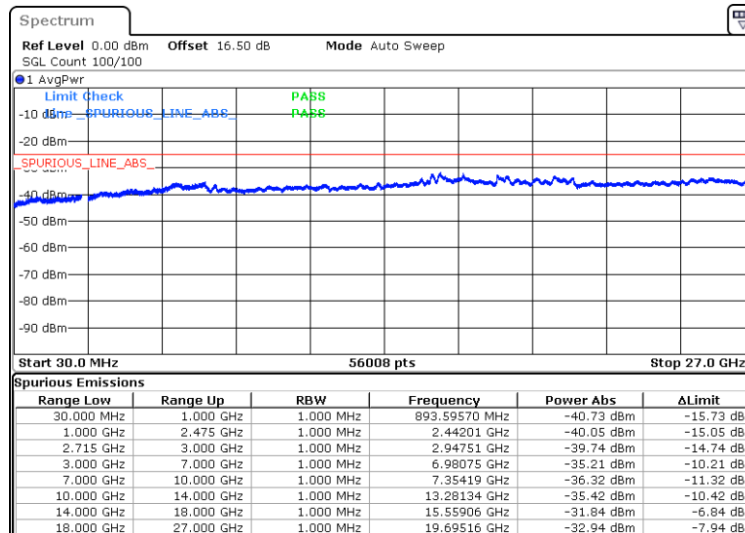
Date: 5.MAY.2022 14:38:42

Middle Channel / QPSK



Date: 5.MAY.2022 14:40:05

Highest Channel / QPSK



Date: 5.MAY.2022 14:41:29

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	0.0034	PASS
40	Normal Voltage	0.0008	
30	Normal Voltage	0.0043	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0046	
0	Normal Voltage	0.0021	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0015	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0030	

Note:

1. Normal Voltage = 3.3 V. ; Battery End Point (BEP) = 3.135 V. ; Maximum Voltage = 4.4 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	24.88	25.28	29.85	25.38	30.51
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Middle CH	34.83	24.98	30.15	34.97	39.80

Mode	LTE Band 41C : 26dB BW(MHz)				
16QAM					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Middle CH	24.73	25.13	29.97	25.13	30.57
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Middle CH	34.83	24.88	29.97	34.97	39.80

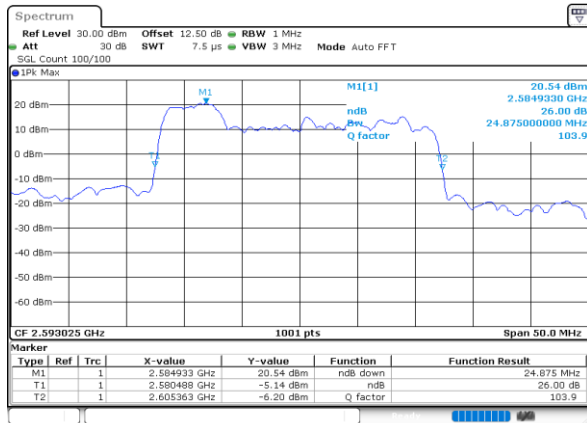
Mode	LTE Band 41C : 26dB BW(MHz)				
64QAM					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Middle CH	24.68	25.08	29.79	25.18	30.57
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Middle CH	34.90	24.73	30.15	34.83	39.80



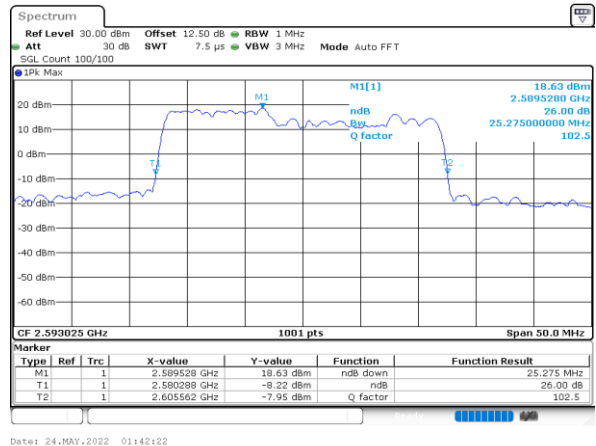
LTE Band 41C

QPSK

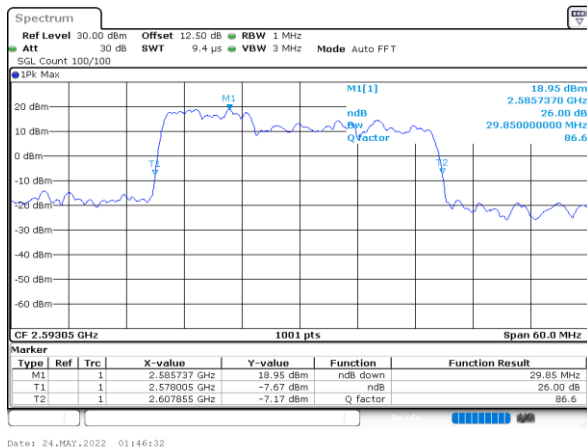
Middle Channel / 5MHz+20MHz



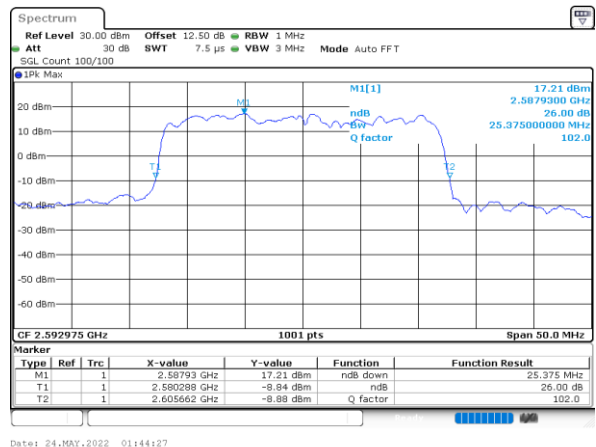
Middle Channel / 10MHz+15MHz



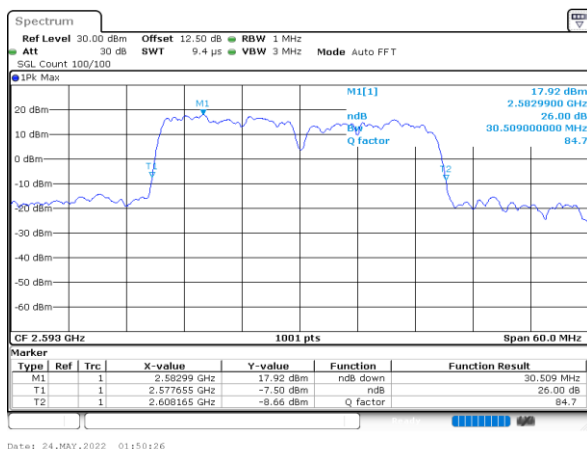
Middle Channel / 10MHz+20MHz



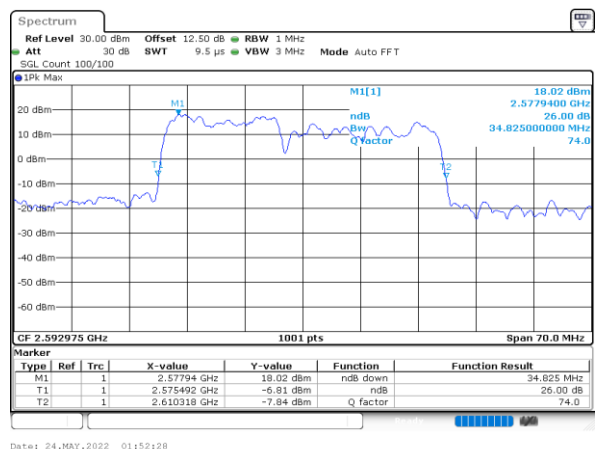
Middle Channel / 15MHz+10MHz



Middle Channel / 15MHz+15MHz

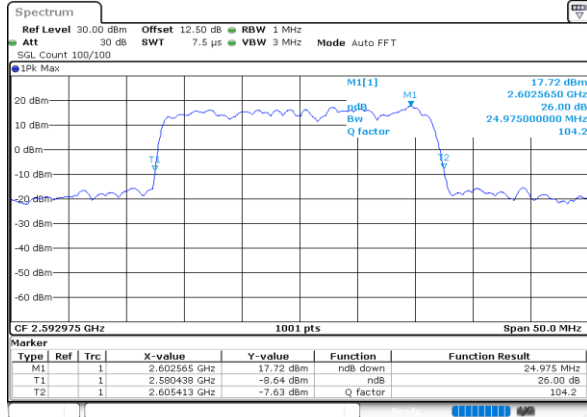


Middle Channel / 15MHz+20MHz

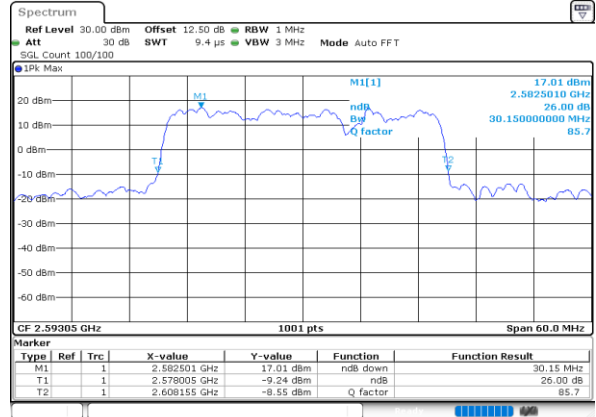


LTE Band 41C

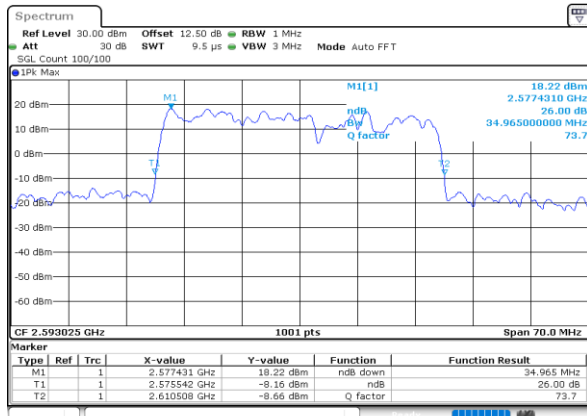
Middle Channel / 20MHz+5MHz



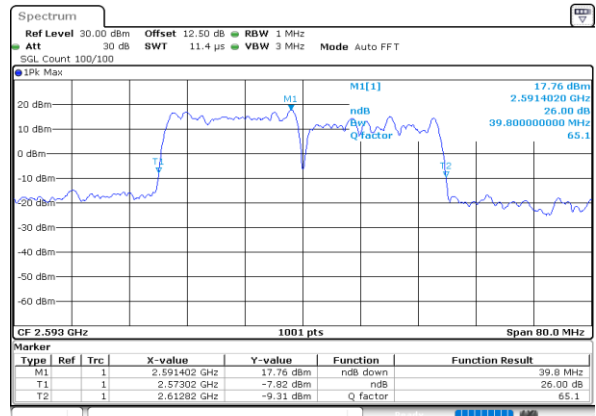
Middle Channel / 20MHz+10MHz



Middle Channel / 20MHz+15MHz



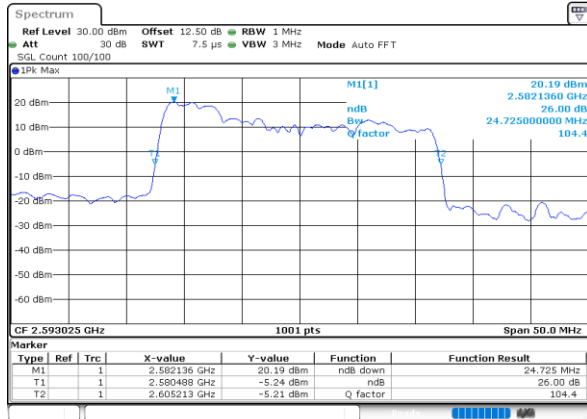
Middle Channel / 20MHz+20MHz



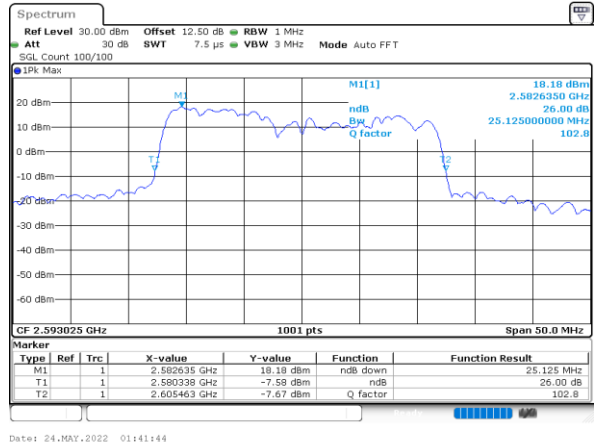


LTE Band 41C

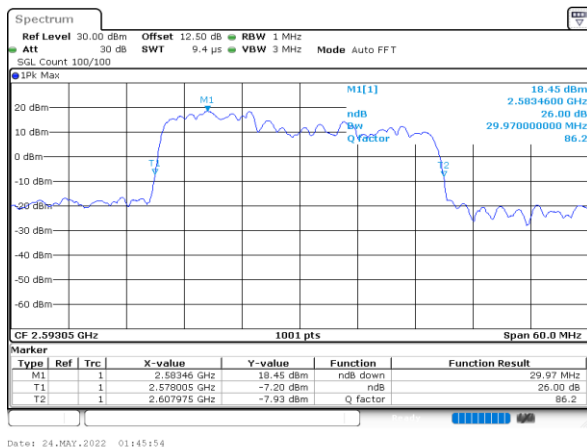
Middle Channel / 5MHz+20MHz



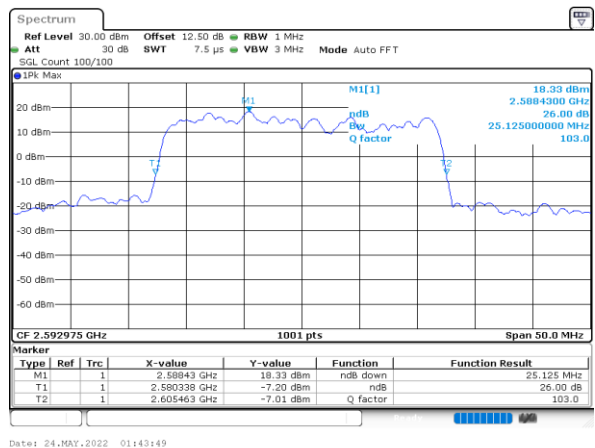
Middle Channel / 10MHz+15MHz



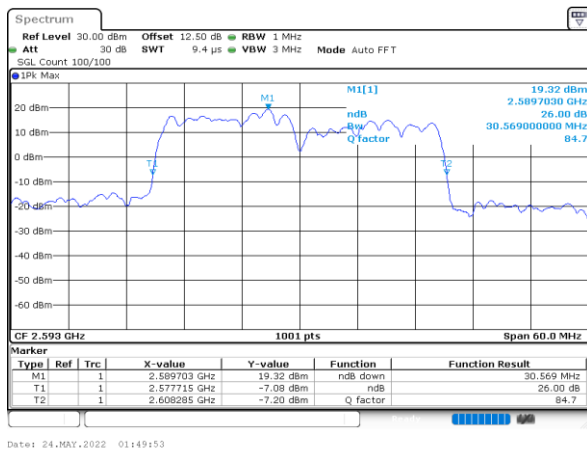
Middle Channel / 10MHz+20MHz



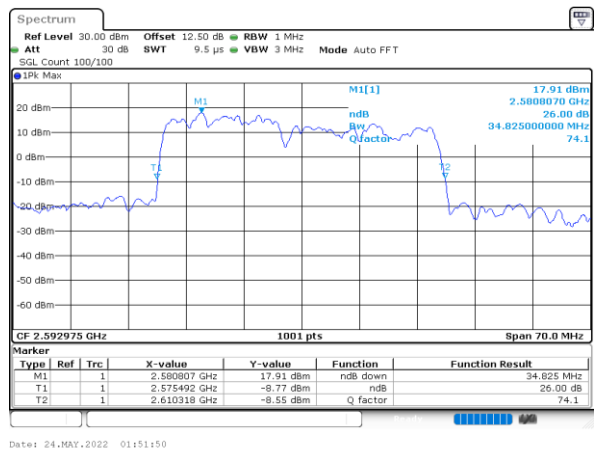
Middle Channel / 15MHz+10MHz



Middle Channel / 15MHz+15MHz



Middle Channel / 15MHz+20MHz

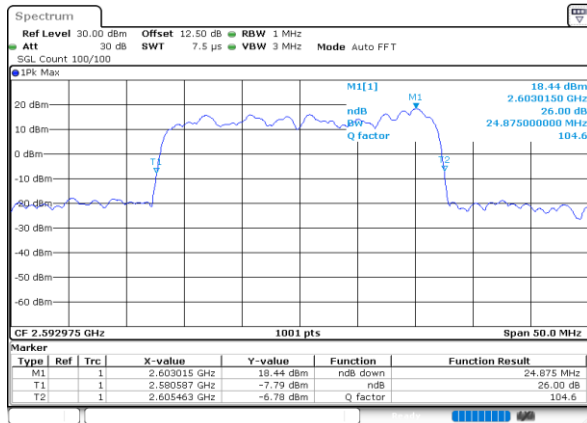




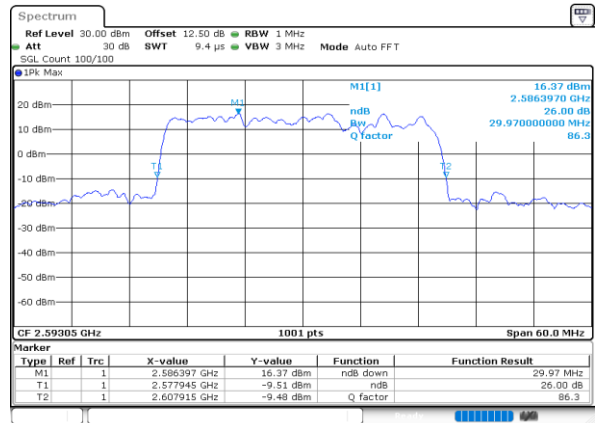
LTE Band 41C

16QAM

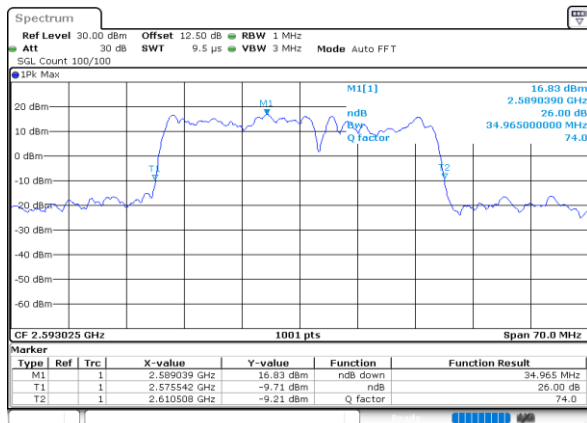
Middle Channel / 20MHz+5MHz



Middle Channel / 20MHz+10MHz



Middle Channel / 20MHz+15MHz



Middle Channel / 20MHz+20MHz

