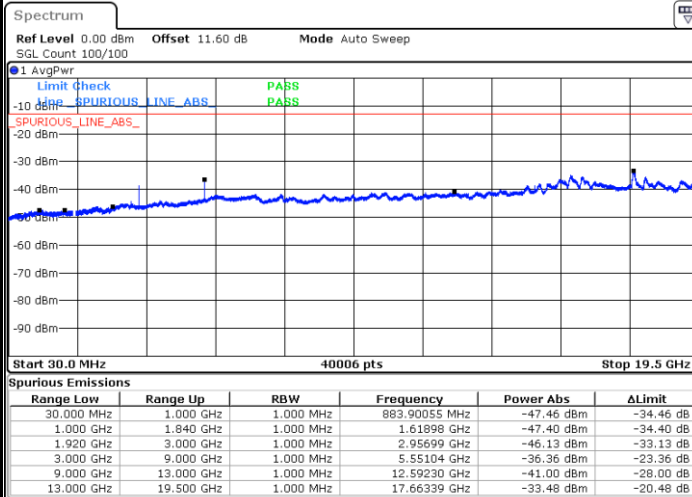




Conducted Spurious Emission

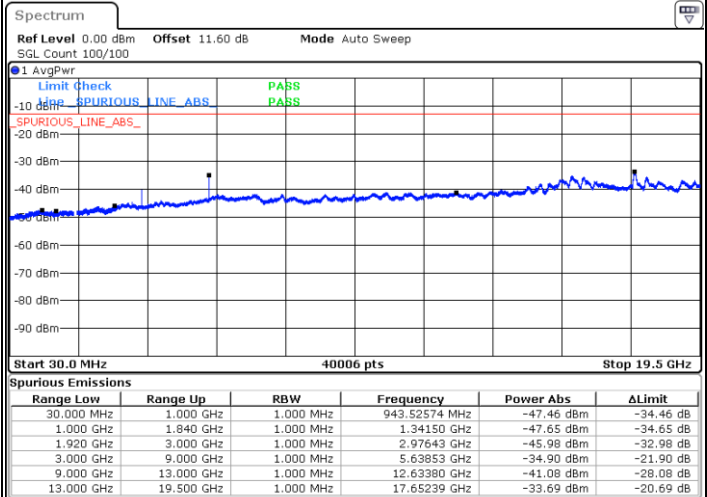
LTE Band 25 / 1.4MHz

Lowest Channel / QPSK



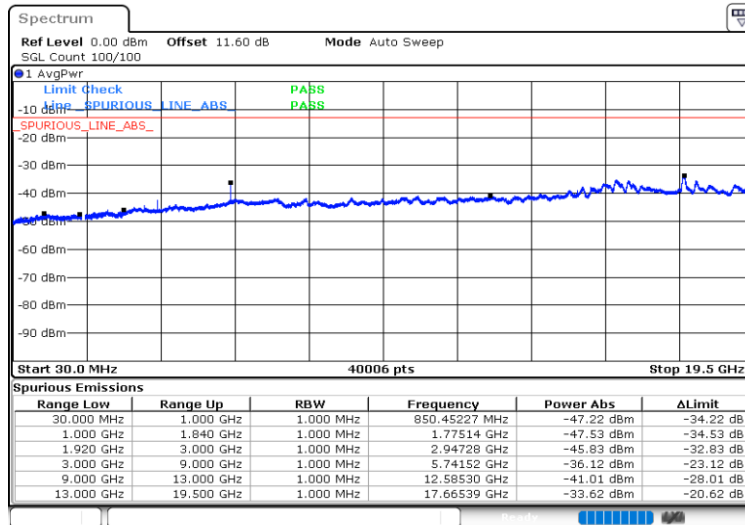
Date: 28.DEC.2022 16:08:22

Middle Channel / QPSK



Date: 28.DEC.2022 16:11:38

Highest Channel / QPSK

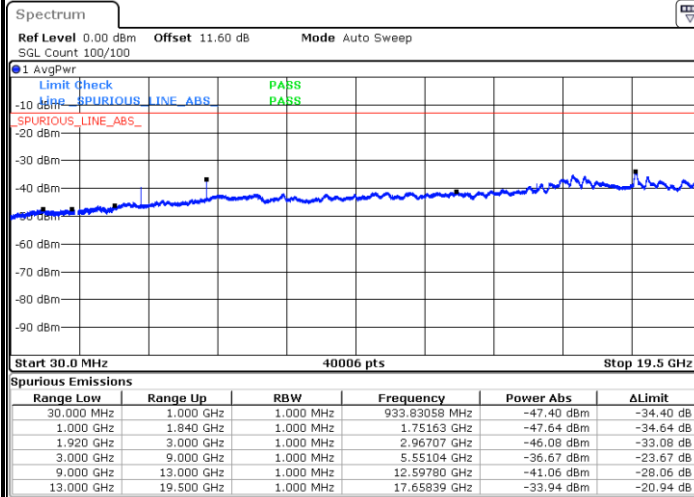


Date: 28.DEC.2022 16:16:53



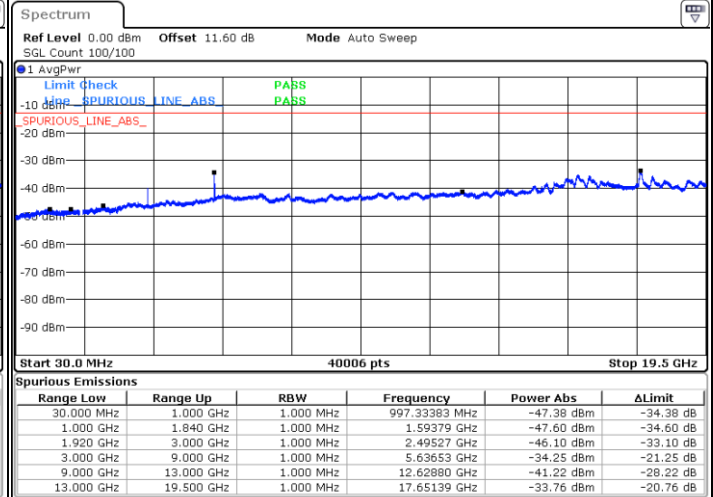
LTE Band 25 / 3MHz

Lowest Channel / QPSK



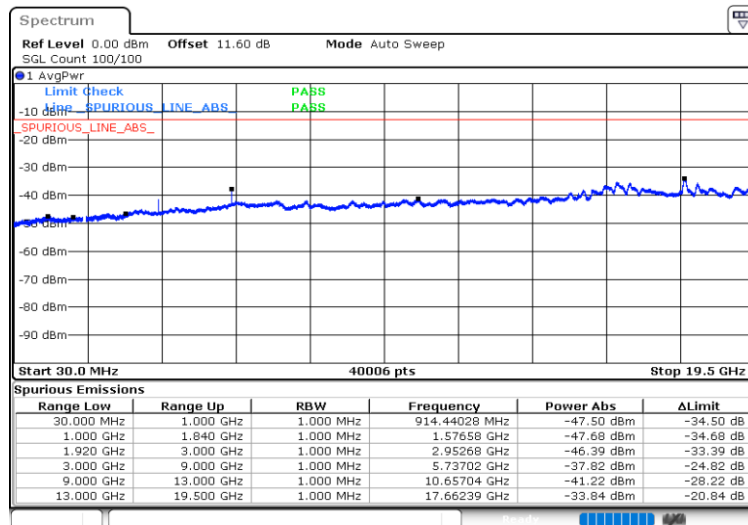
Date: 28.DEC.2022 17:34:20

Middle Channel / QPSK



Date: 28.DEC.2022 17:35:38

Highest Channel / QPSK

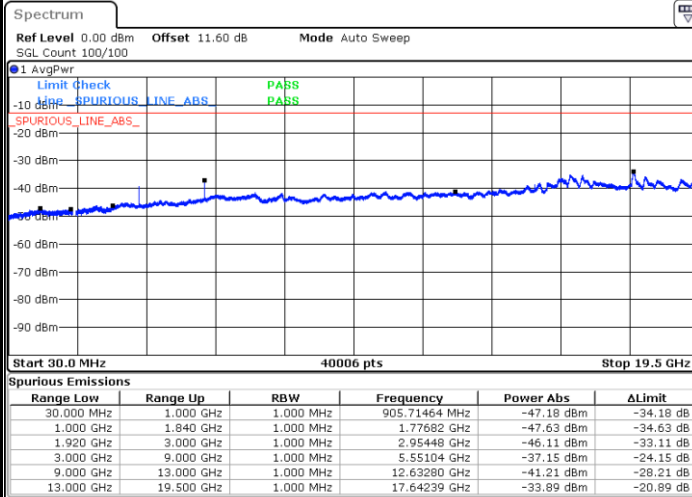


Date: 28.DEC.2022 17:36:57



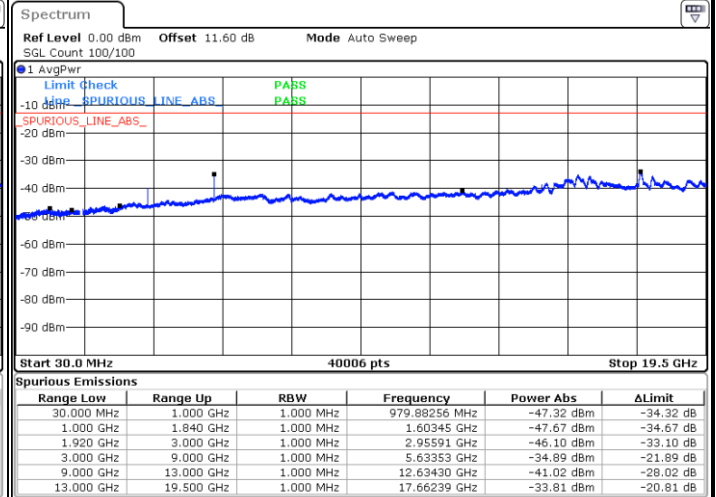
LTE Band 25 / 5MHz

Lowest Channel / QPSK



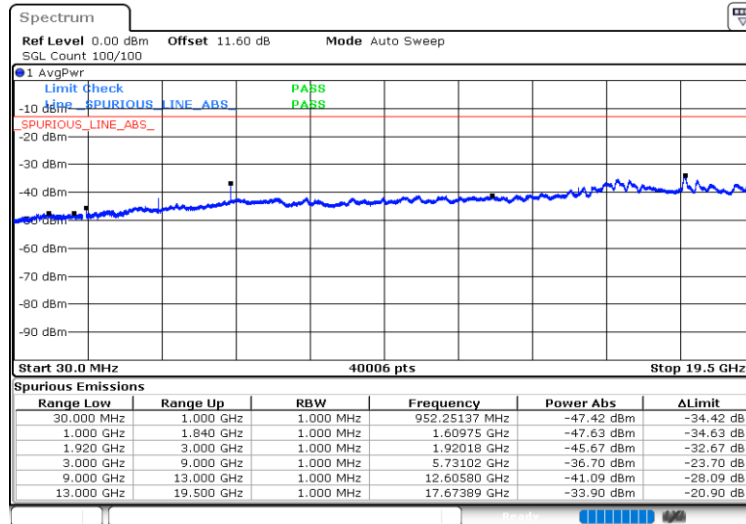
Date: 28.DEC.2022 17:38:20

Middle Channel / QPSK



Date: 28.DEC.2022 17:39:39

Highest Channel / QPSK

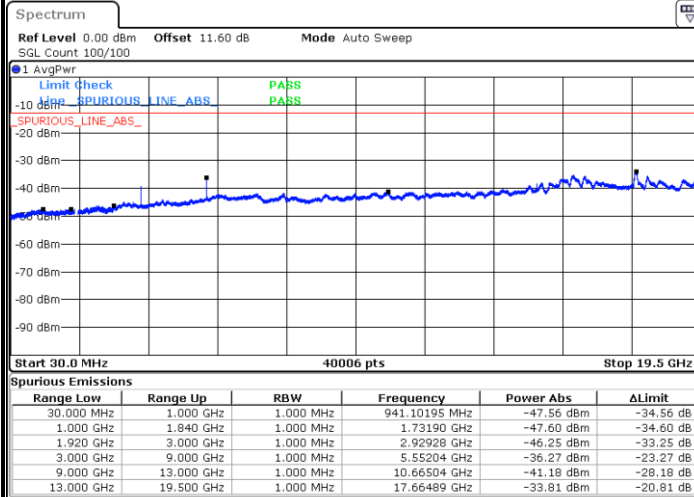


Date: 28.DEC.2022 17:40:57



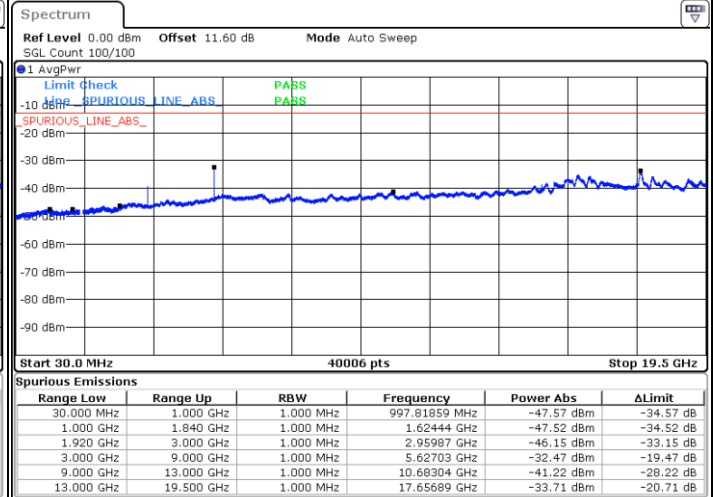
LTE Band 25 / 10MHz

Lowest Channel / QPSK



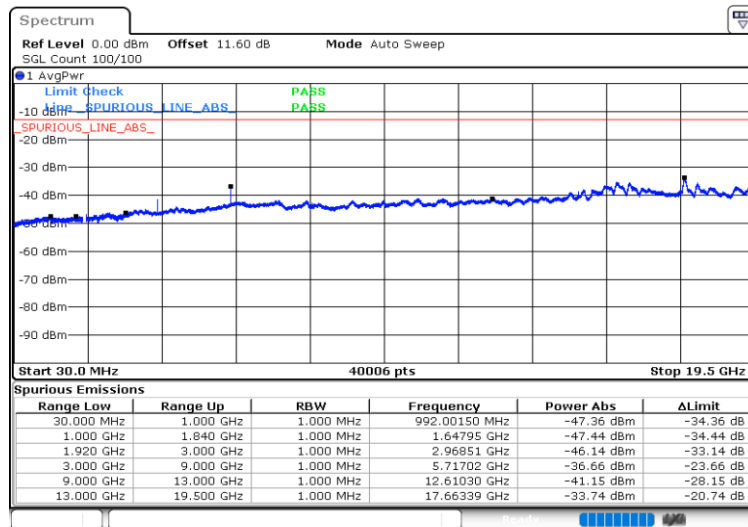
Date: 28.DEC.2022 17:42:21

Middle Channel / QPSK



Date: 28.DEC.2022 17:43:39

Highest Channel / QPSK

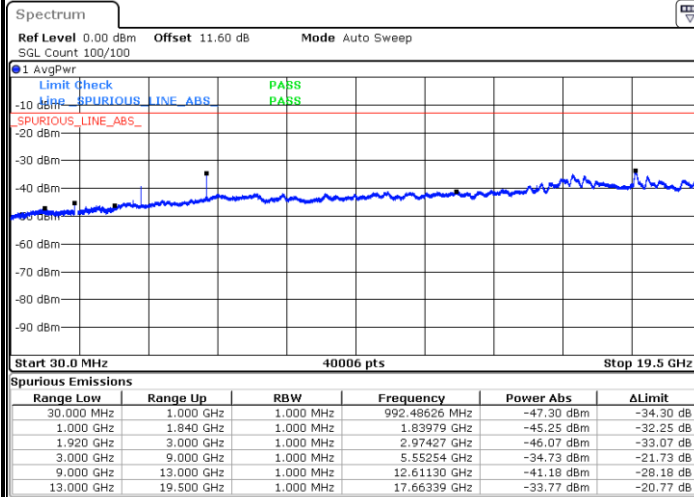


Date: 28.DEC.2022 17:44:58



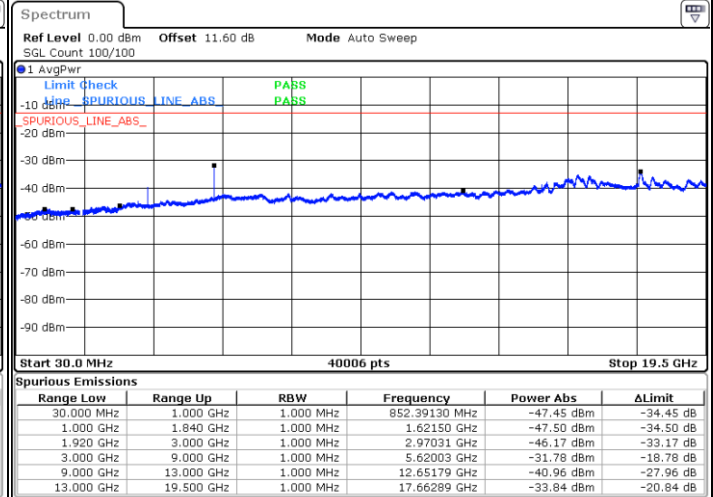
LTE Band 25 / 15MHz

Lowest Channel / QPSK



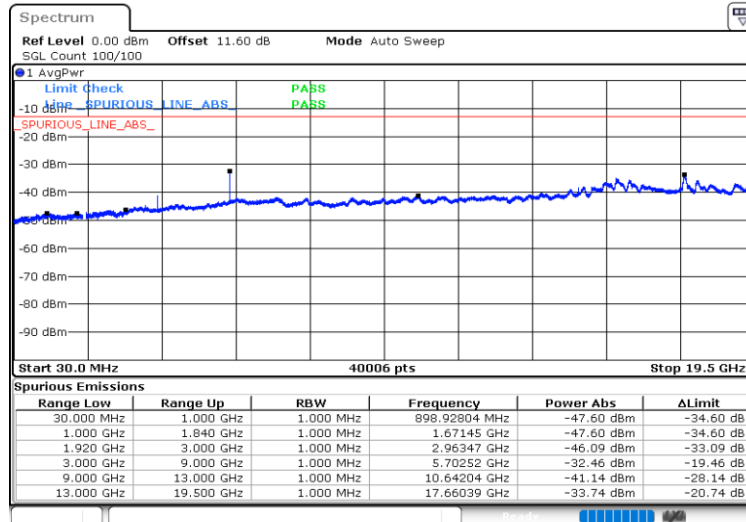
Date: 28.DEC.2022 17:46:21

Middle Channel / QPSK



Date: 28.DEC.2022 17:47:39

Highest Channel / QPSK

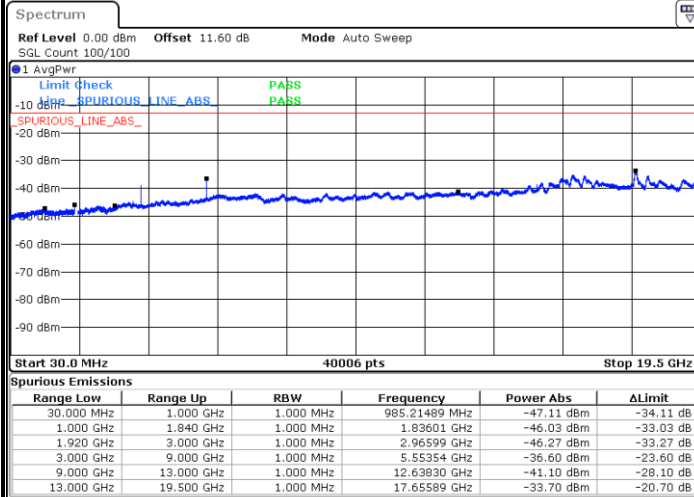


Date: 28.DEC.2022 17:48:58



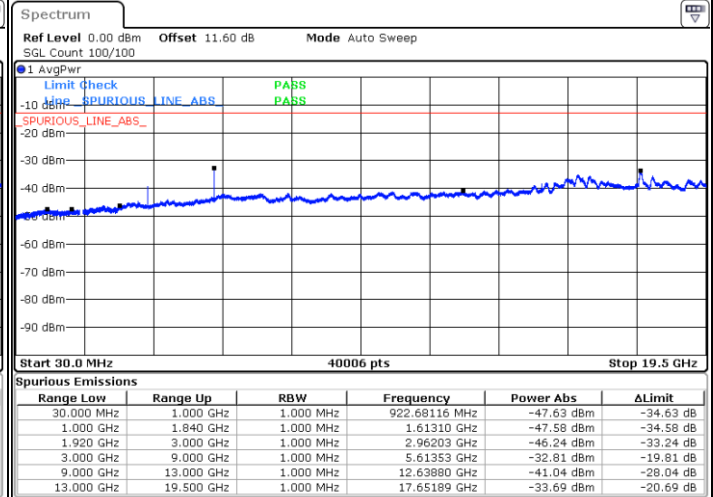
LTE Band 25 / 20MHz

Lowest Channel / QPSK



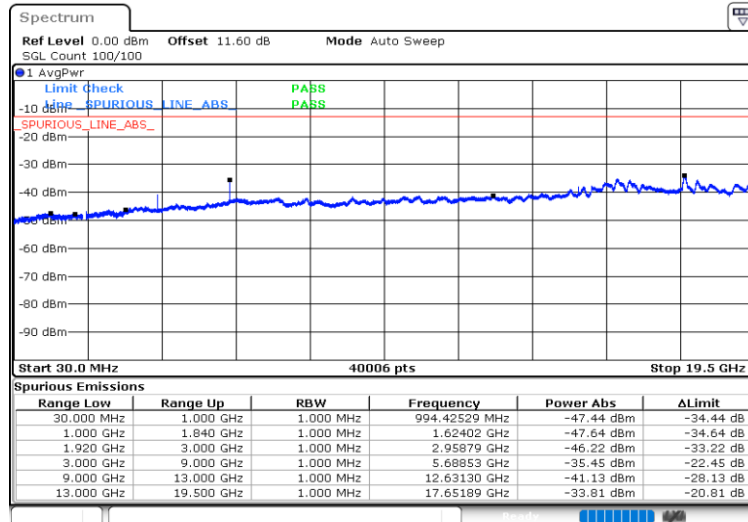
Date: 28.DEC.2022 17:50:21

Middle Channel / QPSK



Date: 28.DEC.2022 17:51:40

Highest Channel / QPSK



Date: 28.DEC.2022 17:52:58

Frequency Stability

Test Conditions		LTE Band 25 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0034	PASS
40	Normal Voltage	0.0081	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0007	
0	Normal Voltage	0.0079	
-10	Normal Voltage	0.0008	
-20	Normal Voltage	0.0011	
-30	Normal Voltage	0.0054	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0009	

Note:

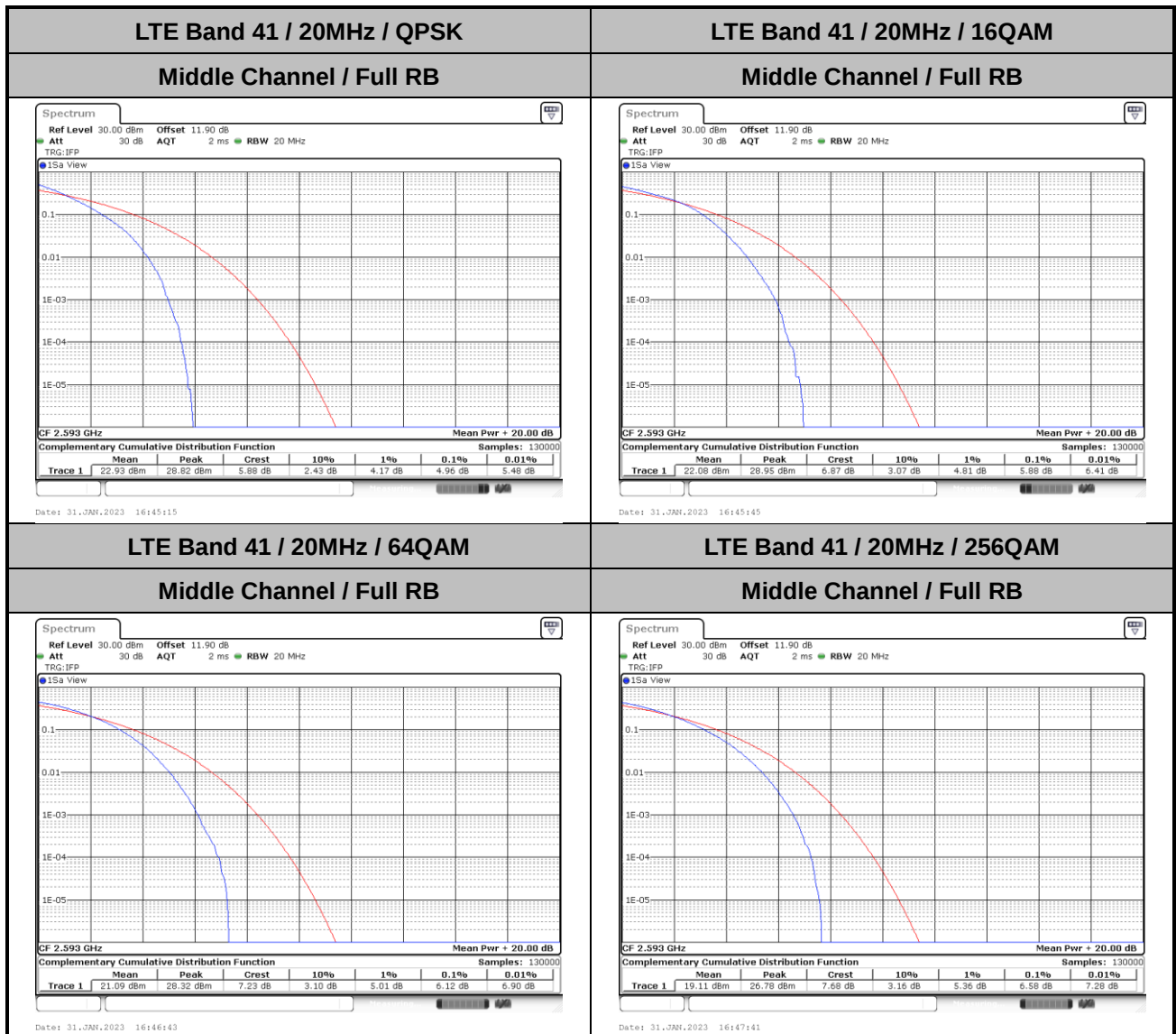
1. Normal Voltage = 4.2 V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage = 4.3 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41_HPUE

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	4.96	5.88	6.12	6.58	PASS



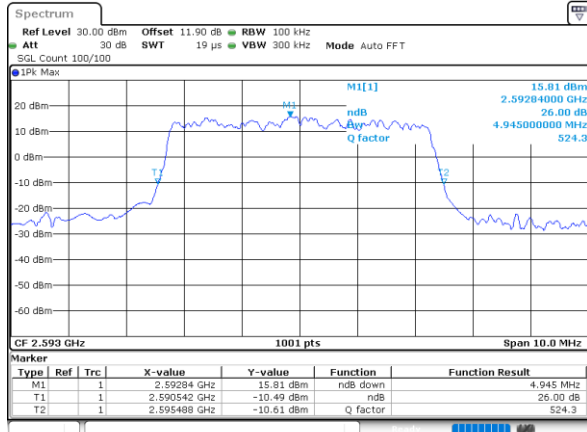
**26dB Bandwidth**

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	4.92	9.85	9.77	14.33	14.69	19.14	18.82
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	-	-	-	-	4.78	4.87	9.63	9.69	14.30	14.15	18.66	18.66



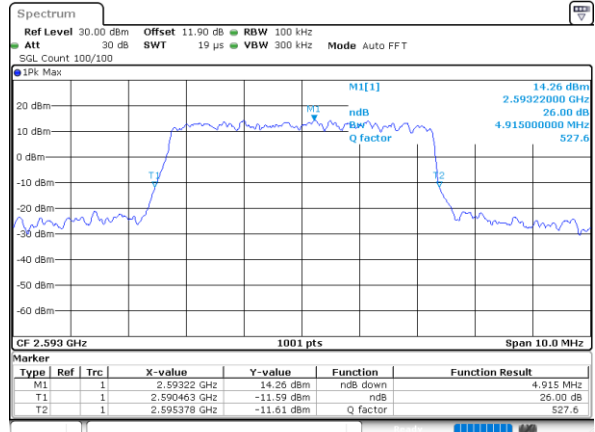
LTE Band 41

Middle Channel / 5MHz / QPSK



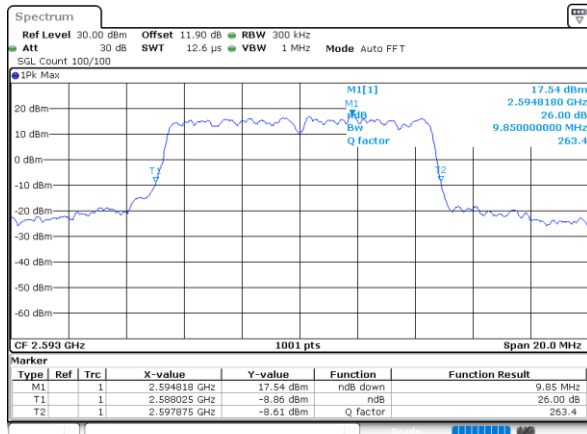
Date: 31.JAN.2023 15:40:17

Middle Channel / 5MHz / 16QAM



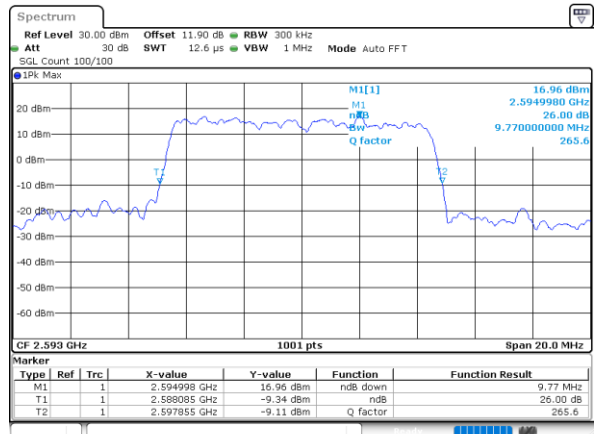
Date: 31.JAN.2023 15:40:19

Middle Channel / 10MHz / QPSK



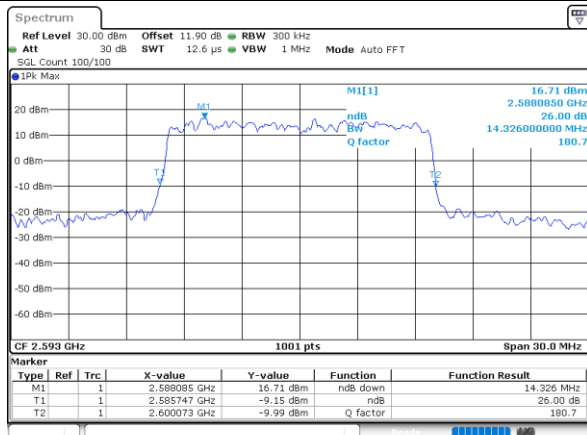
Date: 31.JAN.2023 16:12:41

Middle Channel / 10MHz / 16QAM



Date: 31.JAN.2023 16:13:24

Middle Channel / 15MHz / QPSK



Date: 31.JAN.2023 16:34:08

Middle Channel / 15MHz / 16QAM

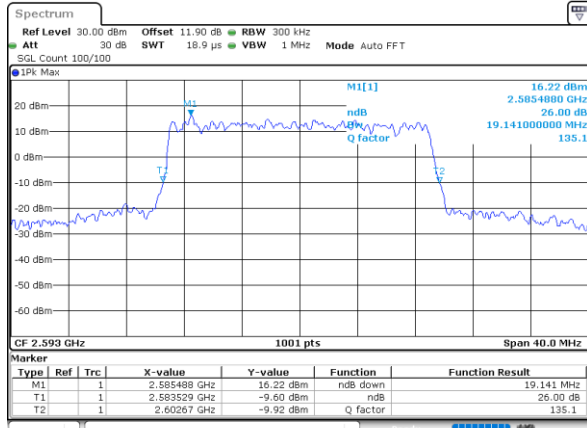


Date: 31.JAN.2023 16:34:56



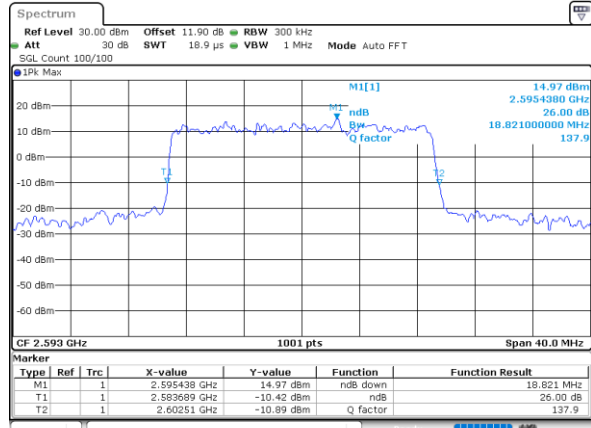
LTE Band 41

Middle Channel / 20MHz / QPSK



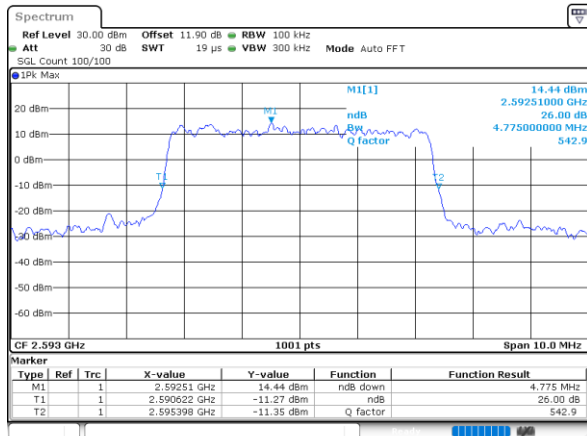
Date: 31.JAN.2023 16:45:00

Middle Channel / 20MHz / 16QAM



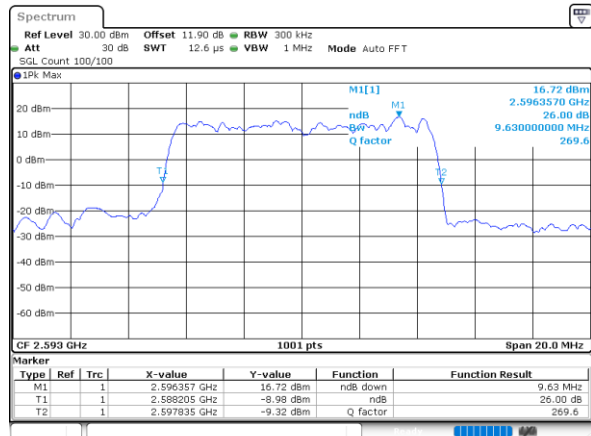
Date: 31.JAN.2023 16:46:13

Middle Channel / 5MHz / 64QAM



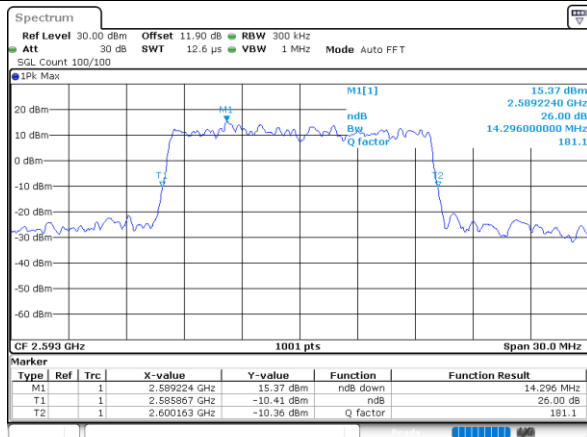
Date: 31.JAN.2023 15:41:42

Middle Channel / 10MHz / 64QAM



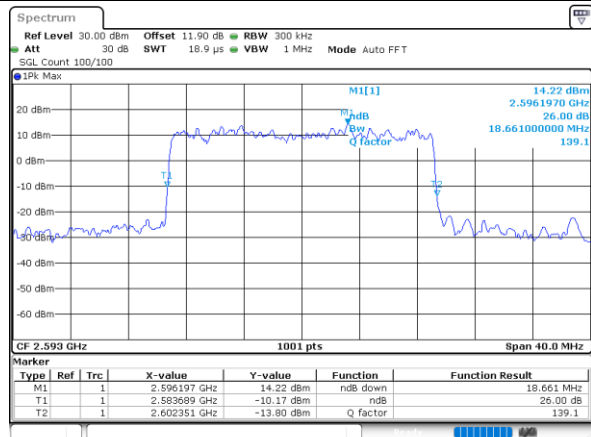
Date: 31.JAN.2023 16:14:07

Middle Channel / 15MHz / 64QAM



Date: 31.JAN.2023 16:35:38

Middle Channel / 20MHz / 64QAM

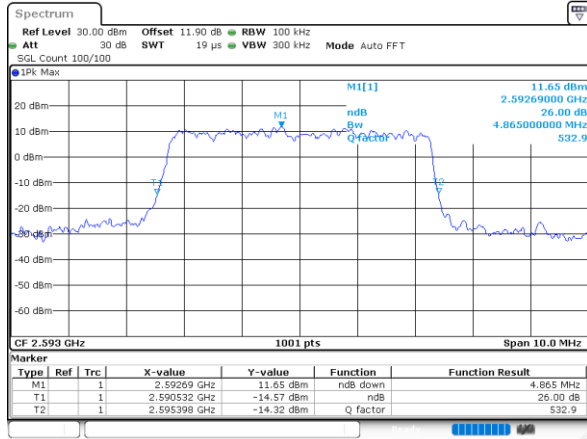


Date: 31.JAN.2023 16:47:11



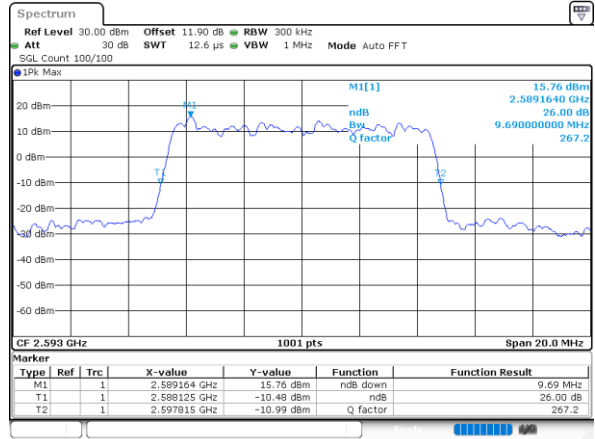
LTE Band 41

Middle Channel / 5MHz / 256QAM



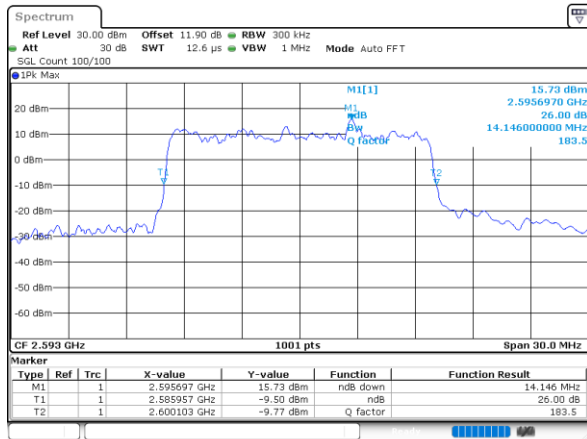
Date: 31.JAN.2023 15:42:25

Middle Channel / 10MHz / 256QAM



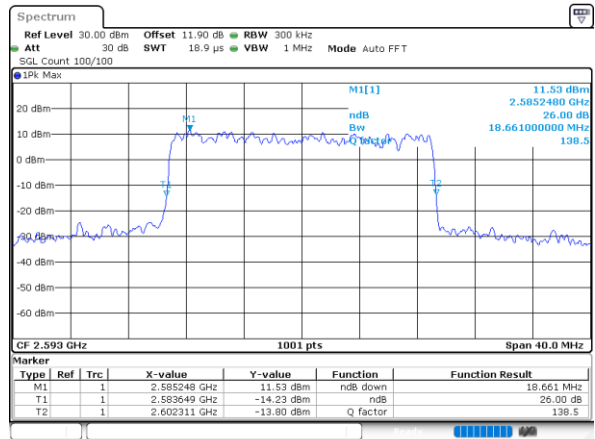
Date: 31.JAN.2023 16:14:50

Middle Channel / 15MHz / 256QAM



Date: 31.JAN.2023 16:36:21

Middle Channel / 20MHz / 256QAM



Date: 31.JAN.2023 16:48:09

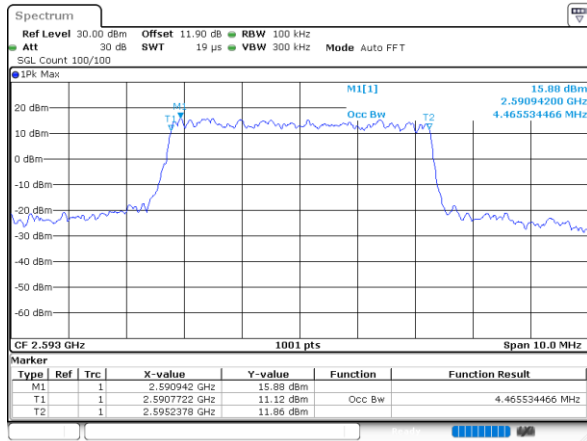
**Occupied Bandwidth**

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	-	-	-	-	4.47	4.48	8.95	9.01	13.46	13.43	18.02	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	-	-	-	-	4.49	4.50	8.95	9.05	13.40	13.40	17.90	17.74

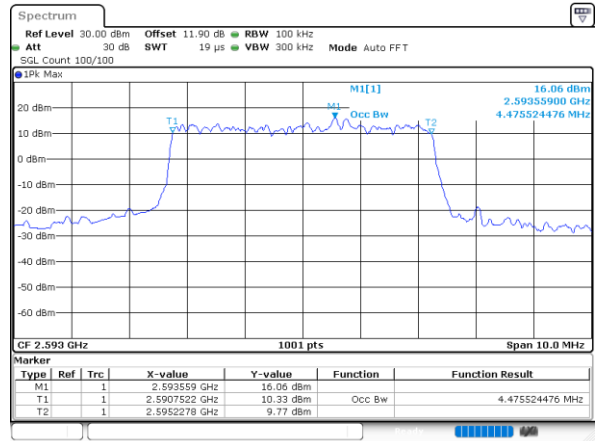


LTE Band 41

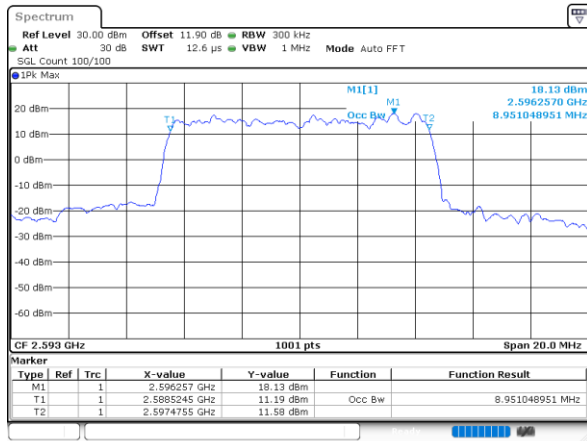
Middle Channel / 5MHz / QPSK



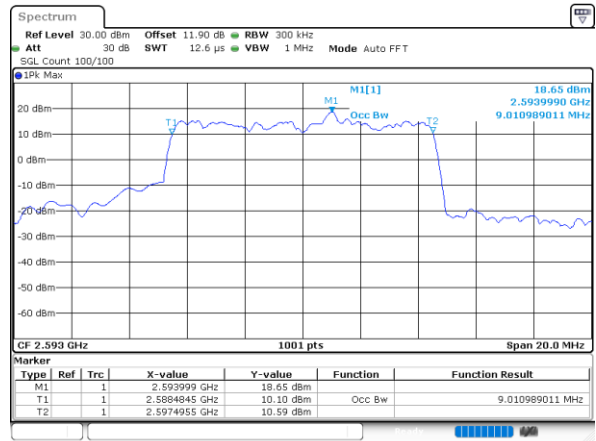
Middle Channel / 5MHz / 16QAM



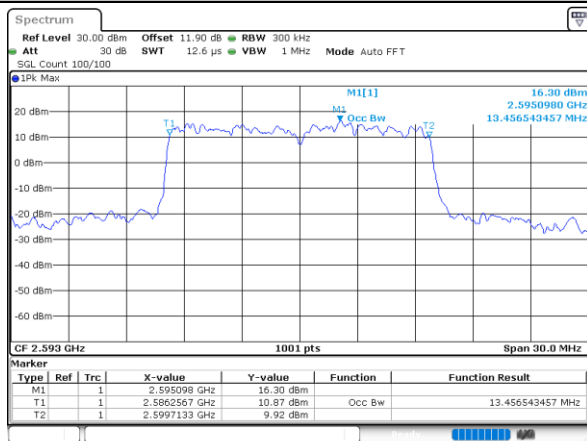
Middle Channel / 10MHz / QPSK



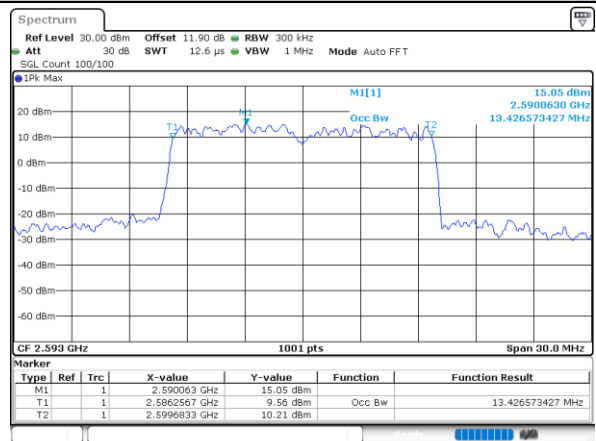
Middle Channel / 10MHz / 16QAM



Middle Channel / 15MHz / QPSK



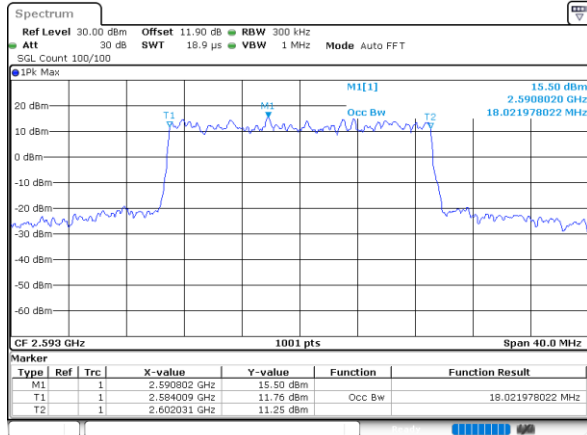
Middle Channel / 15MHz / 16QAM





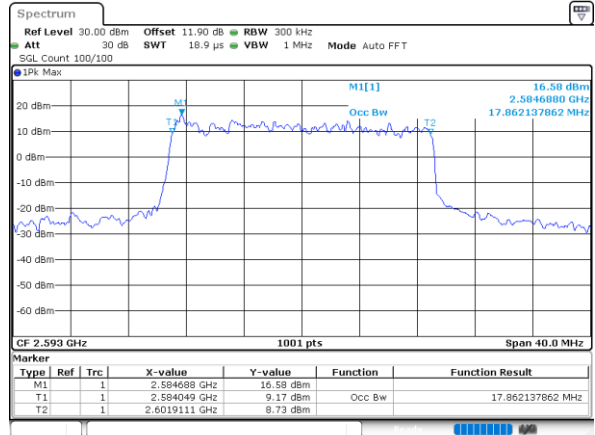
LTE Band 41

Middle Channel / 20MHz / QPSK



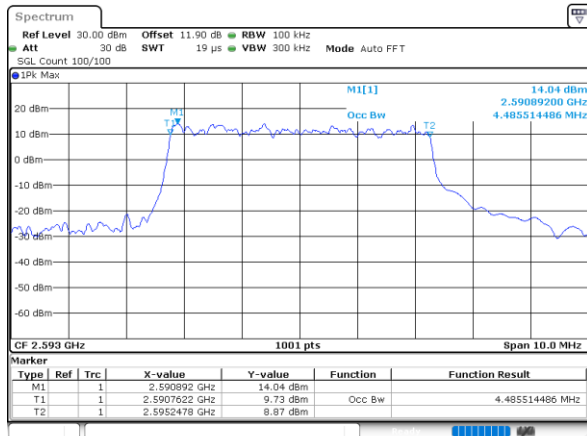
Date: 31.JAN.2023 16:44:46

Middle Channel / 20MHz / 16QAM



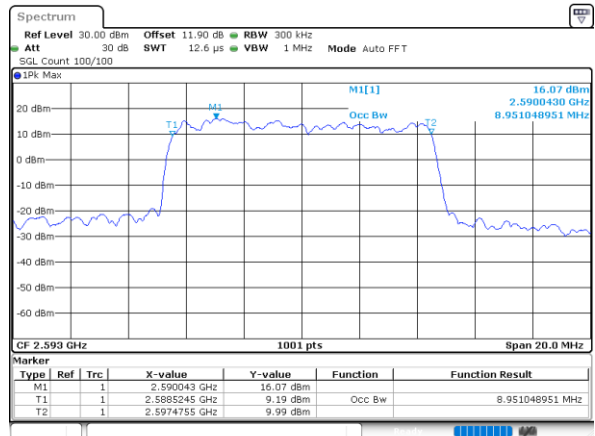
Date: 31.JAN.2023 16:45:59

Middle Channel / 5MHz / 64QAM



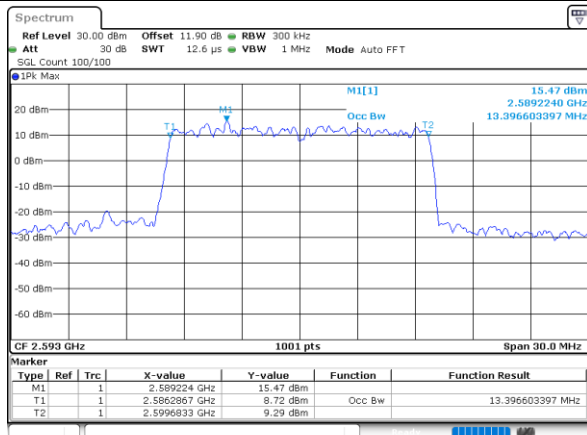
Date: 31.JAN.2023 15:41:28

Middle Channel / 10MHz / 64QAM



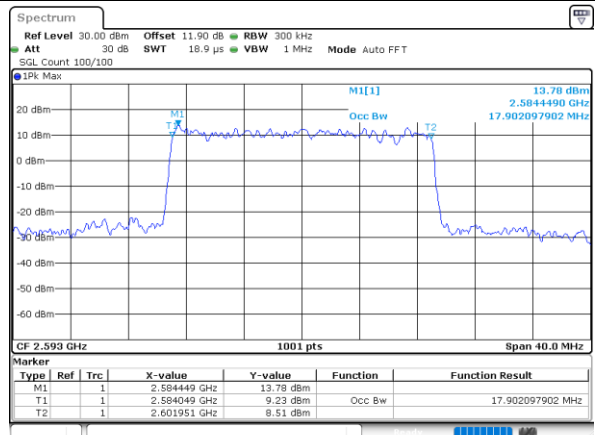
Date: 31.JAN.2023 16:13:53

Middle Channel / 15MHz / 64QAM



Date: 31.JAN.2023 16:35:24

Middle Channel / 20MHz / 64QAM

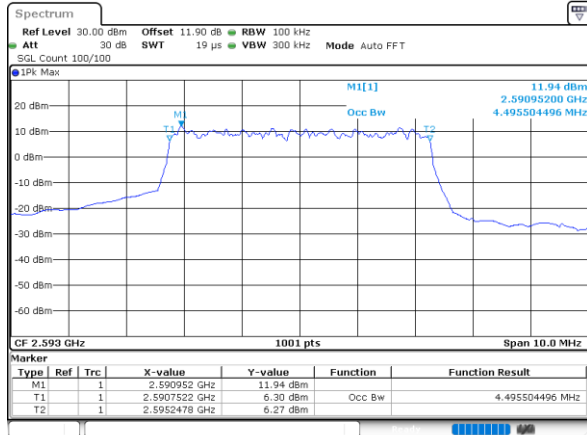


Date: 31.JAN.2023 16:46:57

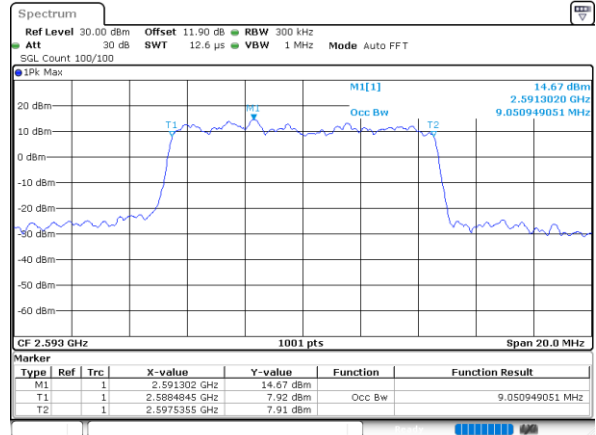


LTE Band 41

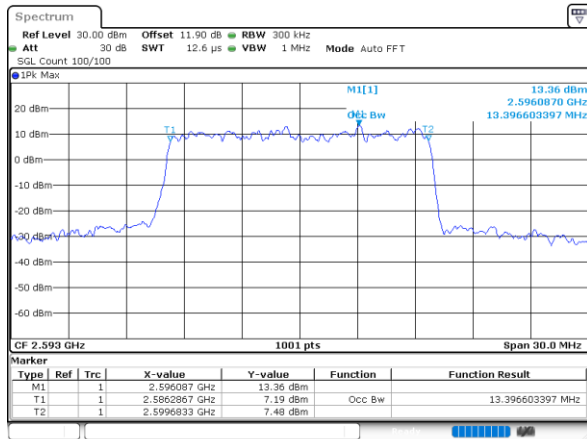
Middle Channel / 5MHz / 256QAM



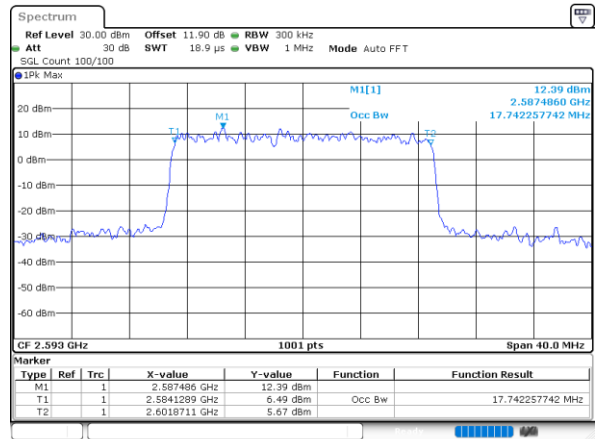
Middle Channel / 10MHz / 256QAM



Middle Channel / 15MHz / 256QAM



Middle Channel / 20MHz / 256QAM

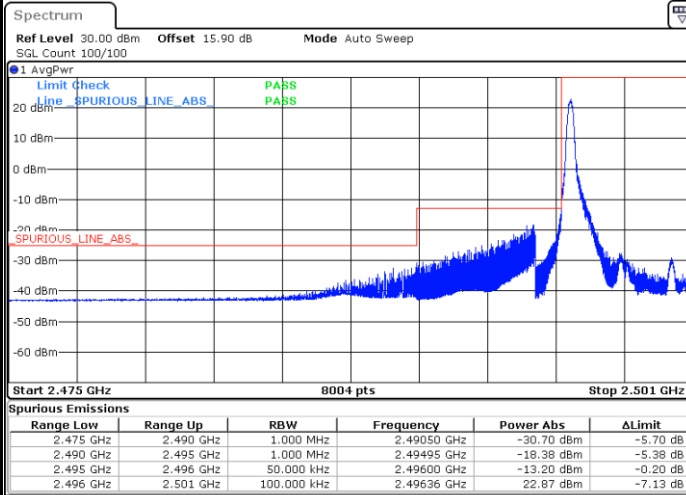




Conducted Band Edge

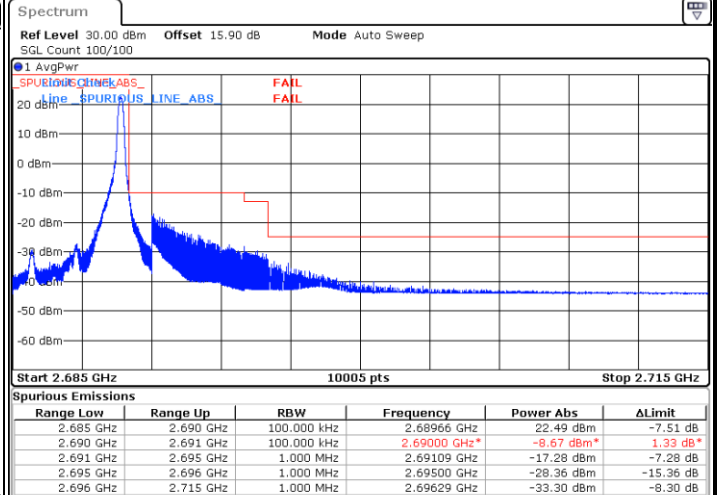
LTE Band 41 / 5MHz / QPSK

Lowest Band Edge / 1 RB



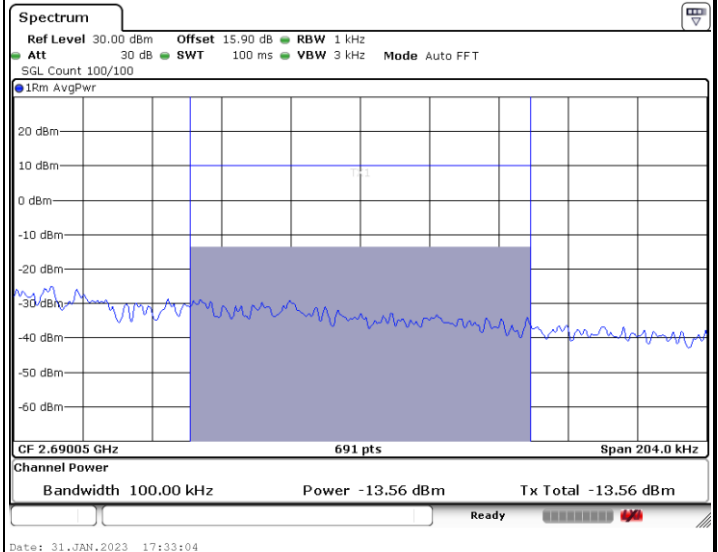
Date: 31.JAN.2023 15:29:13

Highest Band Edge / 1 RB



Date: 31.JAN.2023 15:58:36

Channel power -13dBm > -13.56dBm (PASS)



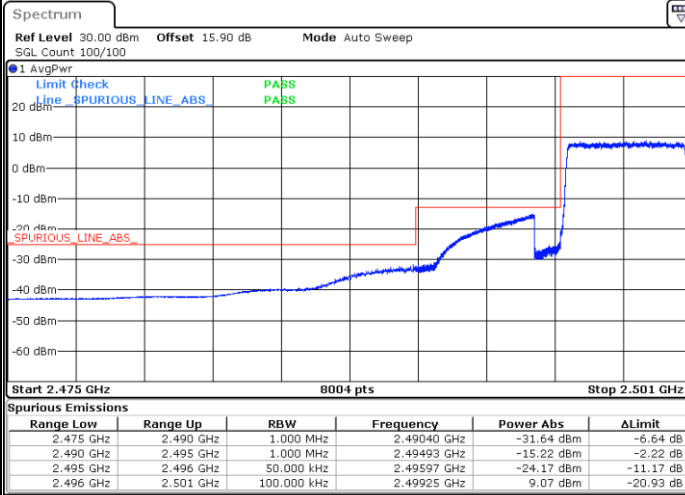
Date: 31.JAN.2023 17:33:04



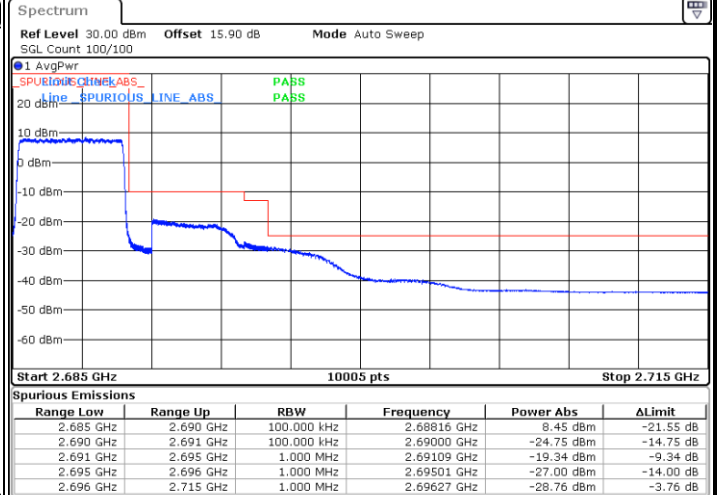
LTE Band 41 / 5MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 31.JAN.2023 15:34:41

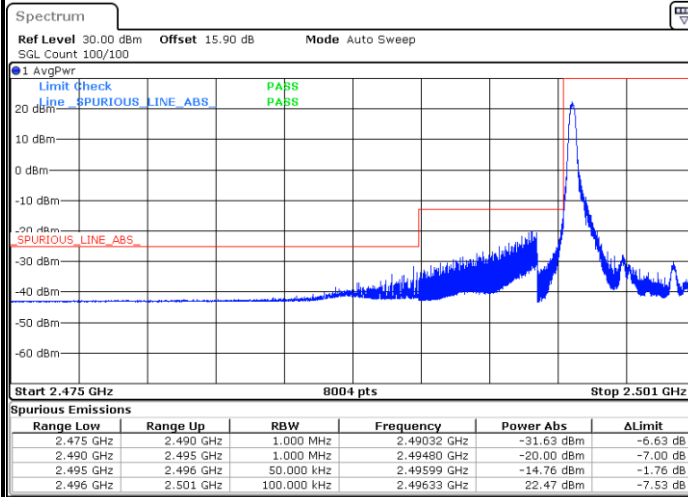


Date: 31.JAN.2023 15:43:31

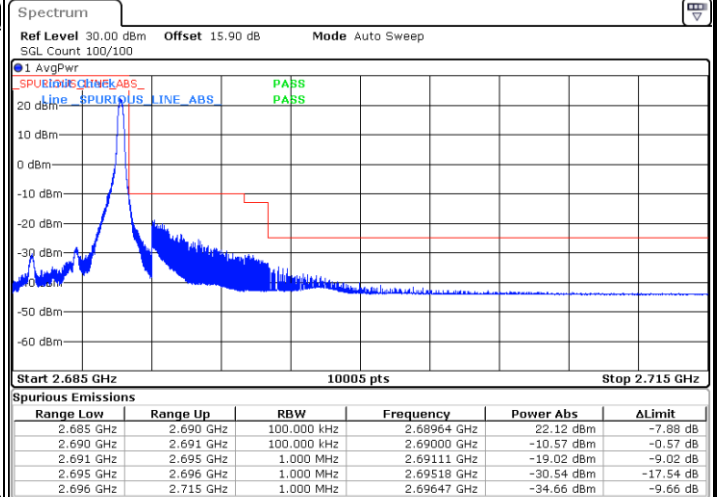


LTE Band 41 / 5MHz / 16QAM

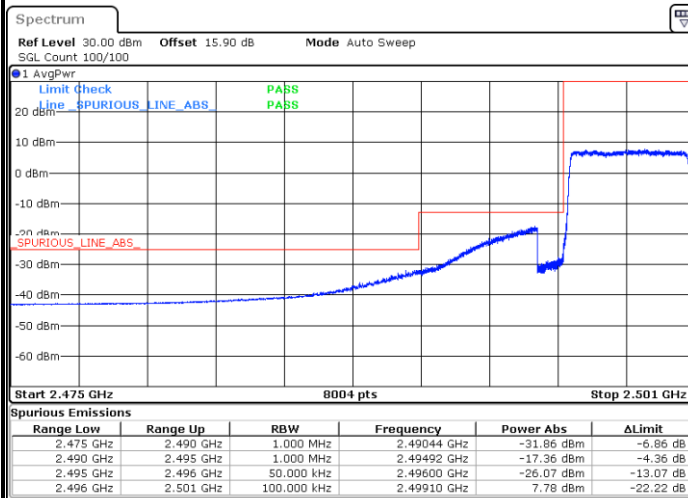
Lowest Band Edge / 1RB



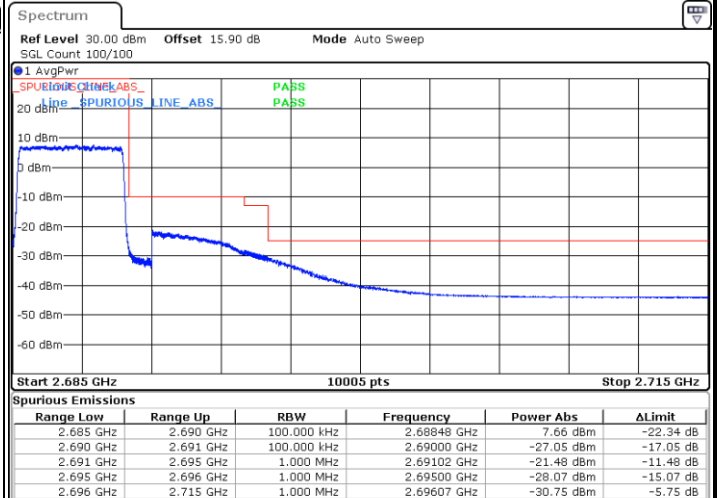
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



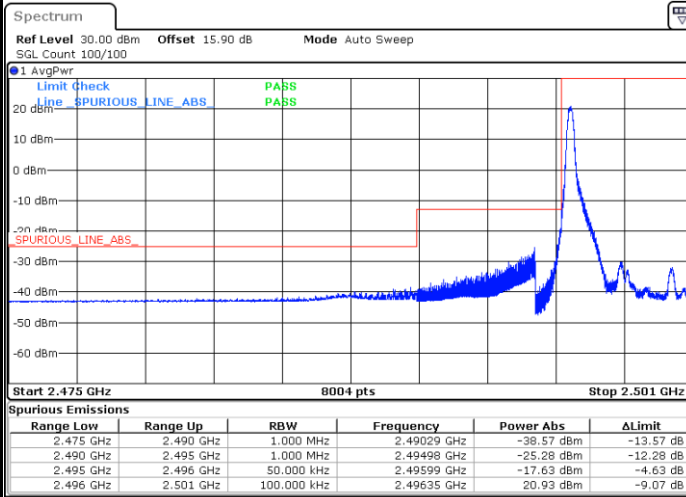
Highest Band Edge / Full RB





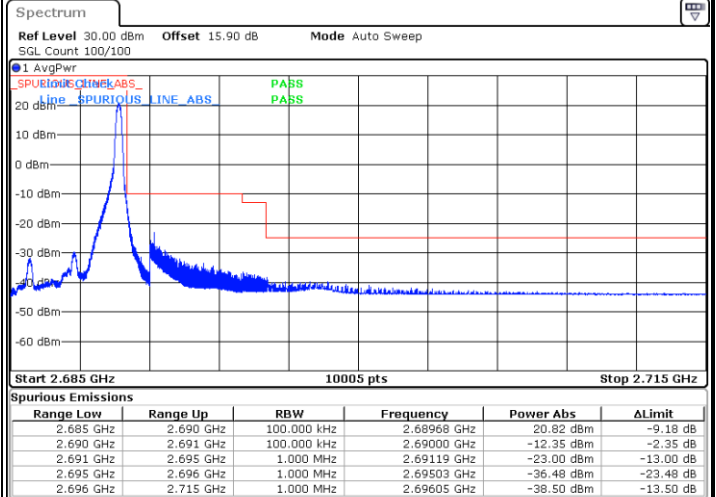
LTE Band 41 / 5MHz / 64QAM

Lowest Band Edge / 1RB



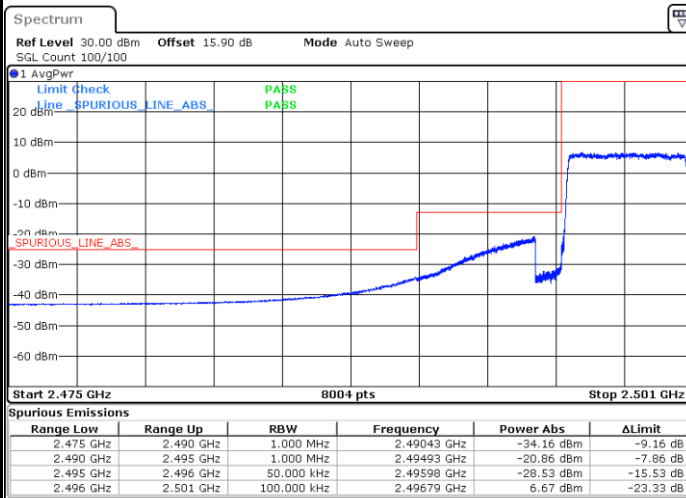
Date: 31.JAN.2023 15:31:16

Highest Band Edge / 1 RB



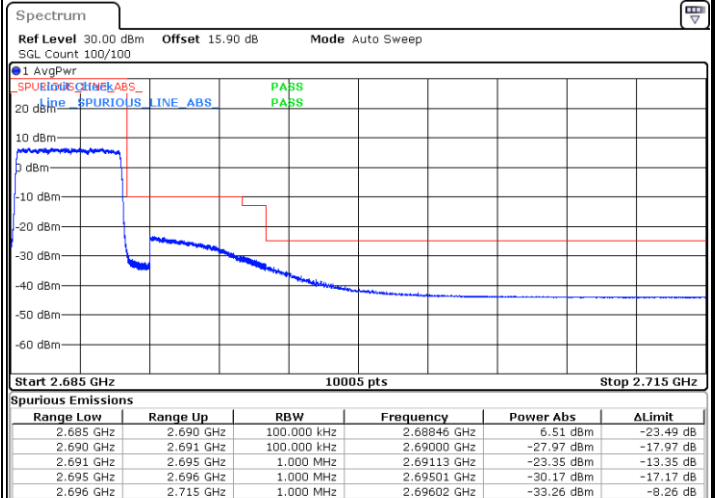
Date: 31.JAN.2023 16:00:49

Lowest Band Edge / Full RB



Date: 31.JAN.2023 15:36:45

Highest Band Edge / Full RB

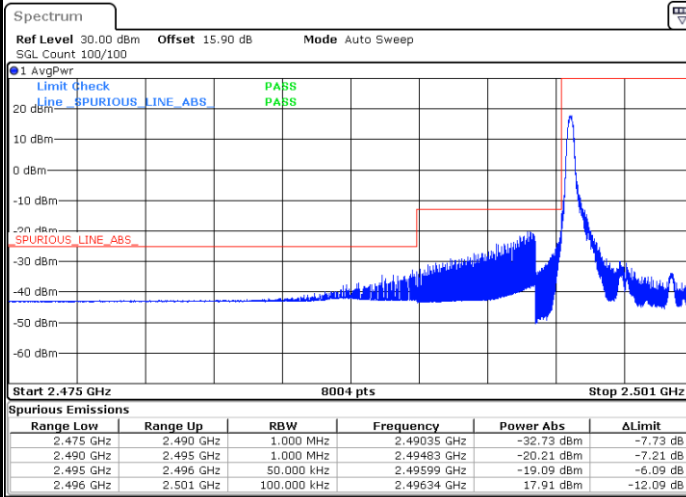


Date: 31.JAN.2023 15:56:22



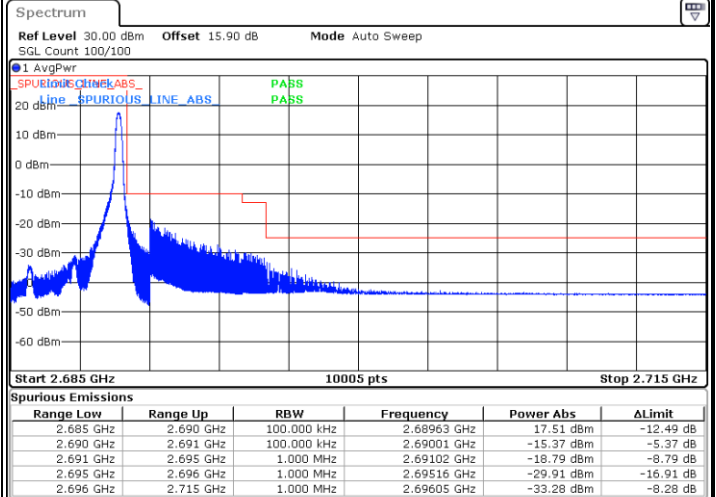
LTE Band 41 / 5MHz / 256QAM

Lowest Band Edge / 1RB



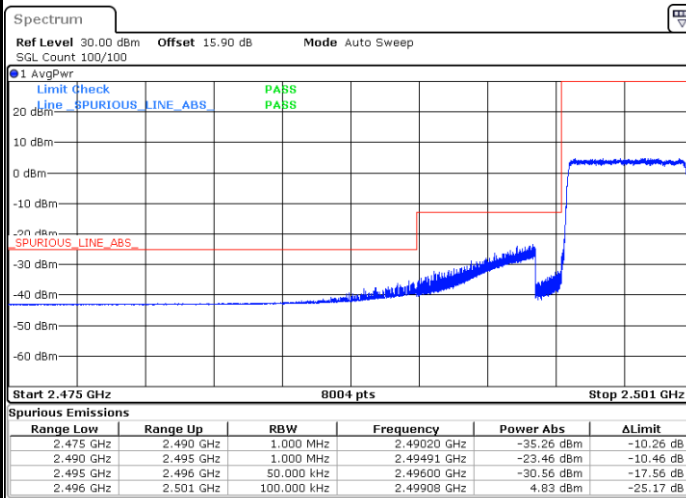
Date: 31.JAN.2023 15:32:18

Highest Band Edge / 1 RB



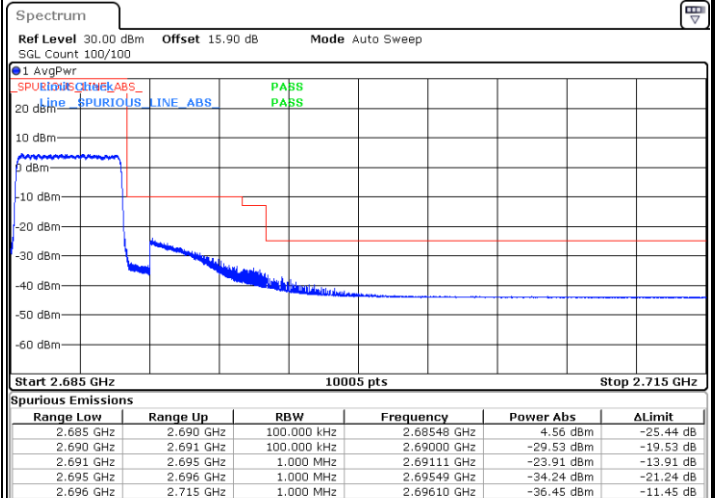
Date: 31.JAN.2023 16:01:56

Lowest Band Edge / Full RB



Date: 31.JAN.2023 15:37:46

Highest Band Edge / Full RB

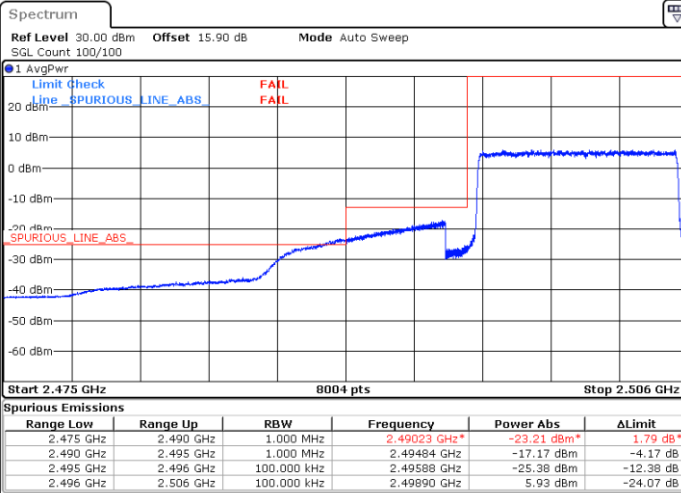


Date: 31.JAN.2023 15:57:29



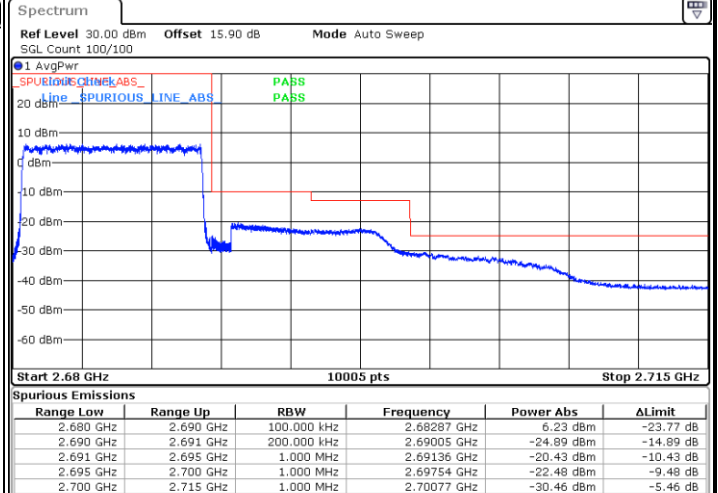
LTE Band 41 / 10MHz / QPSK

Lowest Band Edge / Full RB



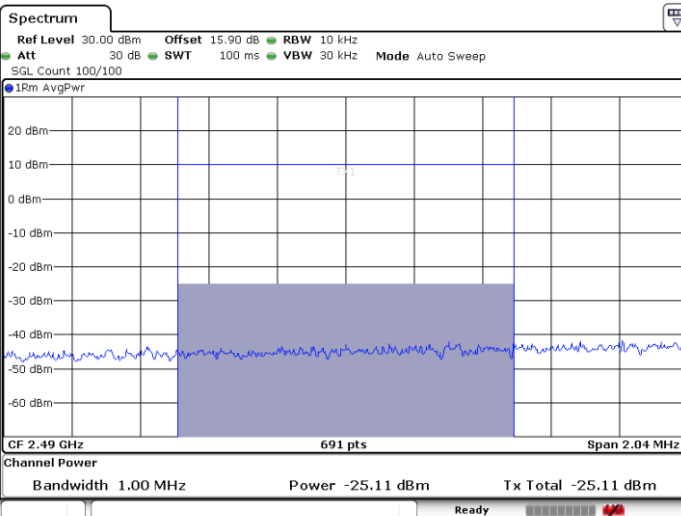
Date: 31.JAN.2023 16:09:00

Highest Band Edge / Full RB



Date: 31.JAN.2023 16:15:48

Channel power -25dBm > -25.11dBm (PASS)



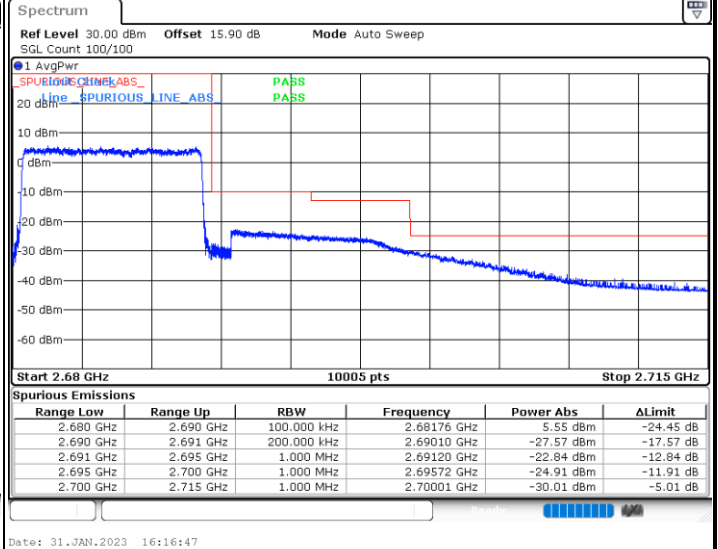
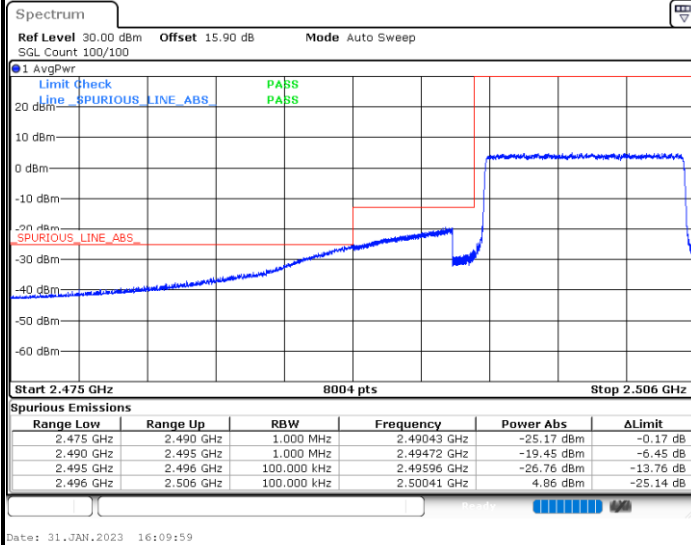
Date: 31.JAN.2023 17:26:50



LTE Band 41 / 10MHz / 16QAM

Lowest Band Edge / Full RB

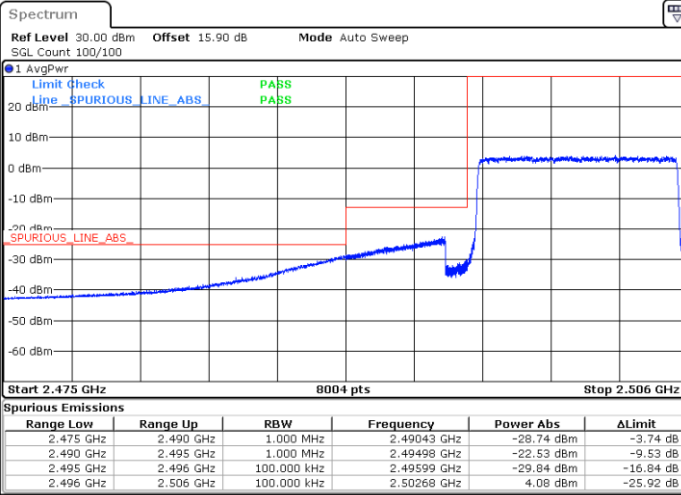
Highest Band Edge / Full RB



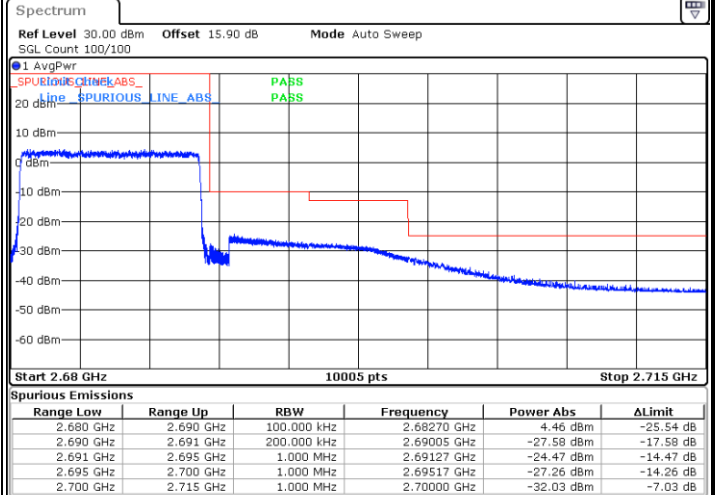


LTE Band 41 / 10MHz / 64QAM

Lowest Band Edge / Full RB

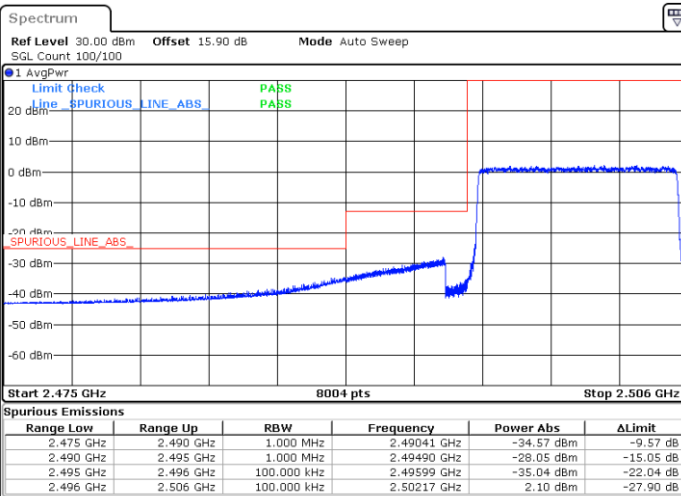


Highest Band Edge / Full RB

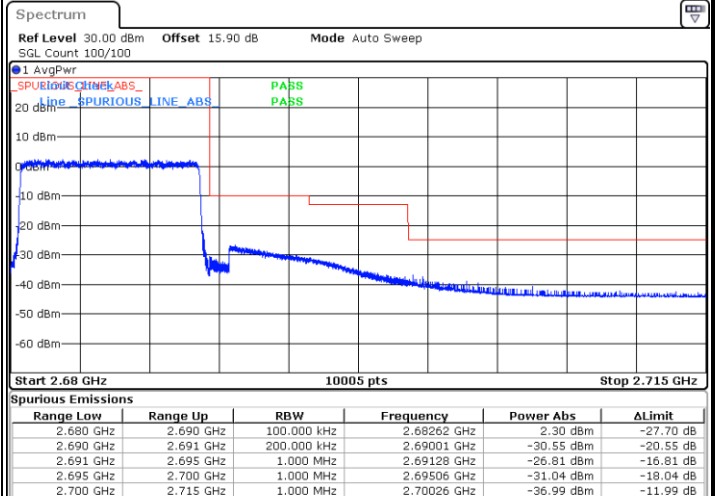


LTE Band 41 / 10MHz / 256QAM

Lowest Band Edge / Full RB



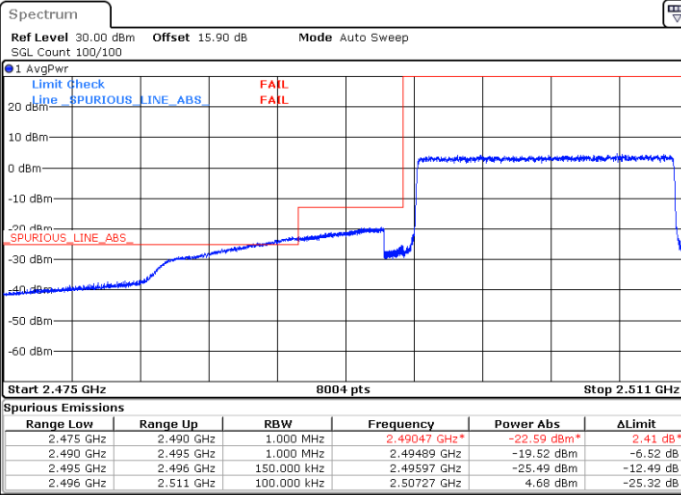
Highest Band Edge / Full RB



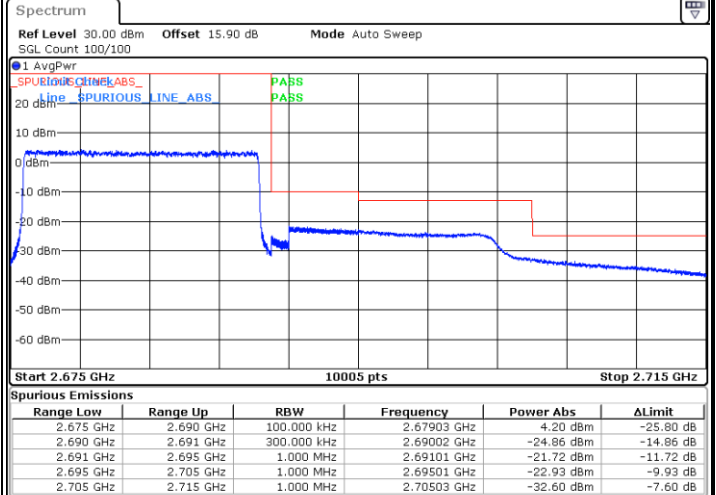


LTE Band 41 / 15MHz / QPSK

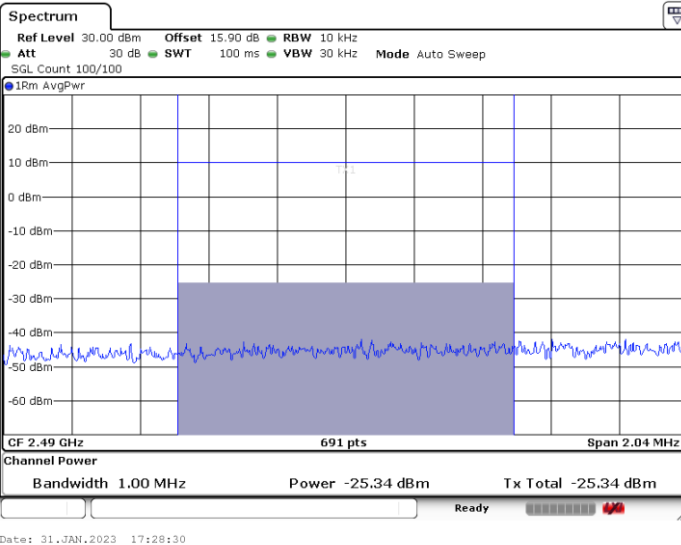
Lowest Band Edge / Full RB



Highest Band Edge / Full RB



Channel power -25dBm > -25.34dBm (PASS)

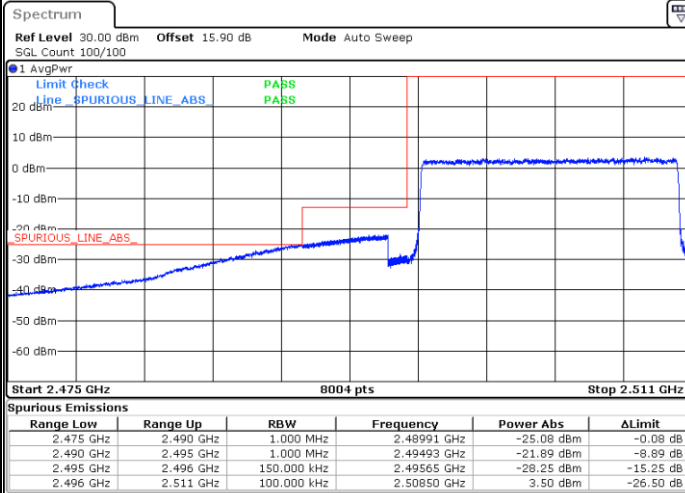




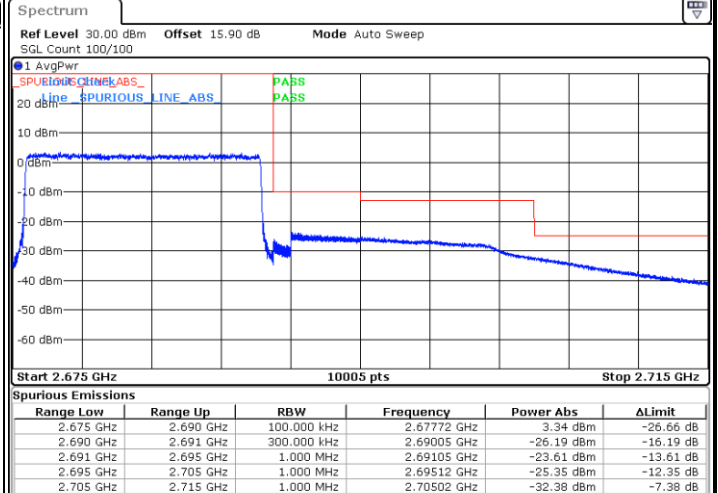
LTE Band 41 / 15MHz / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 31.JAN.2023 16:31:20

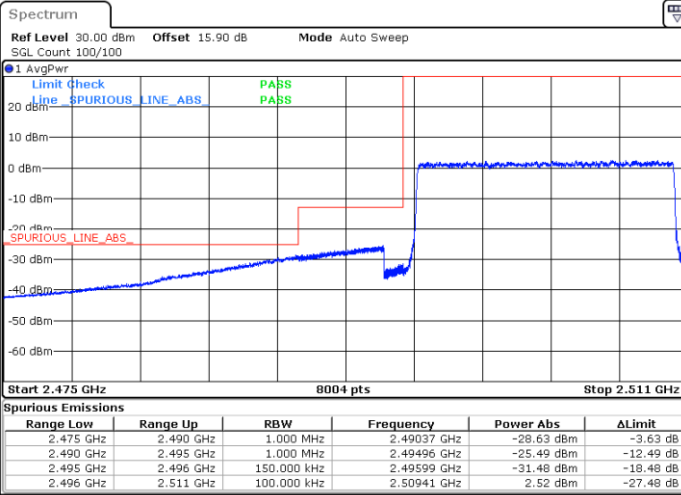


Date: 31.JAN.2023 16:38:18

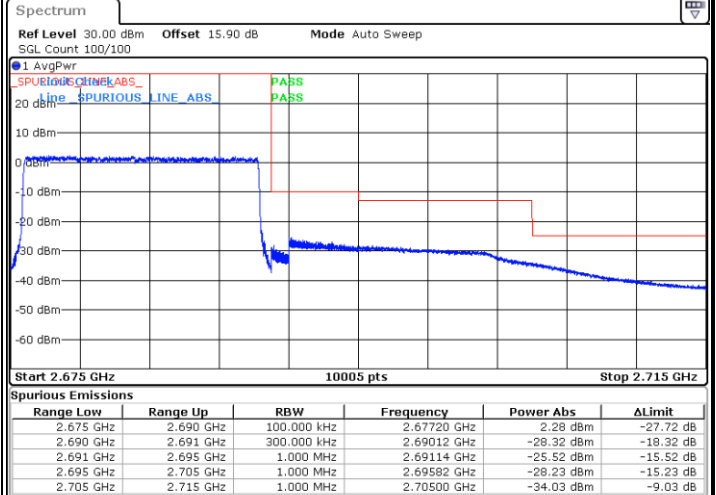


LTE Band 41 / 15MHz / 64QAM

Lowest Band Edge / Full RB

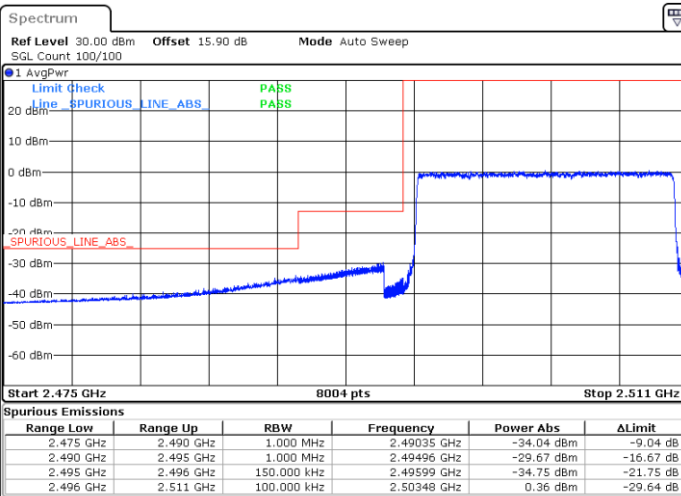


Highest Band Edge / Full RB

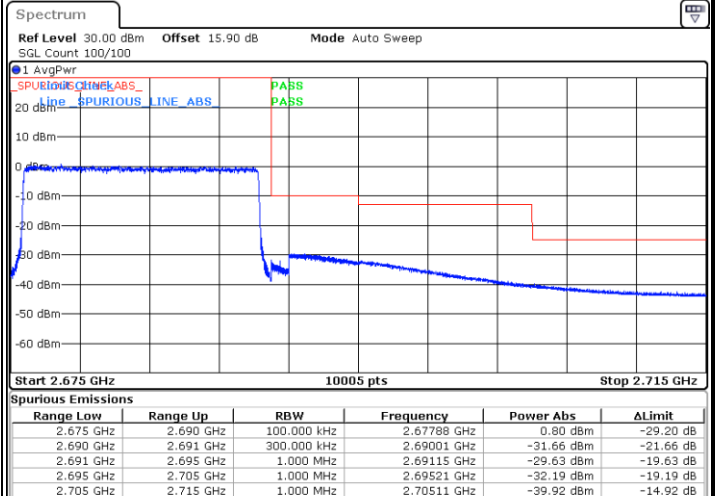


LTE Band 41 / 15MHz / 256QAM

Lowest Band Edge / Full RB



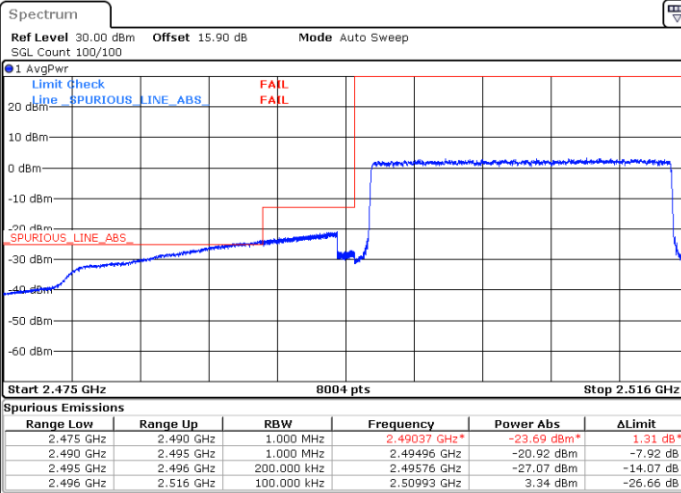
Highest Band Edge / Full RB



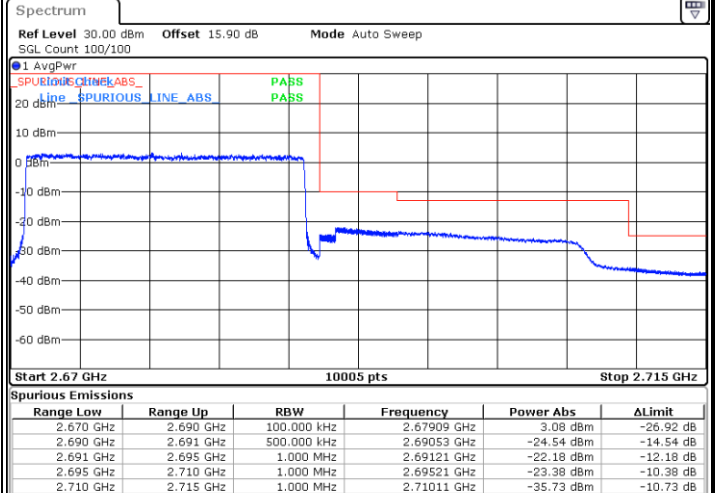


LTE Band 41 / 20MHz / QPSK

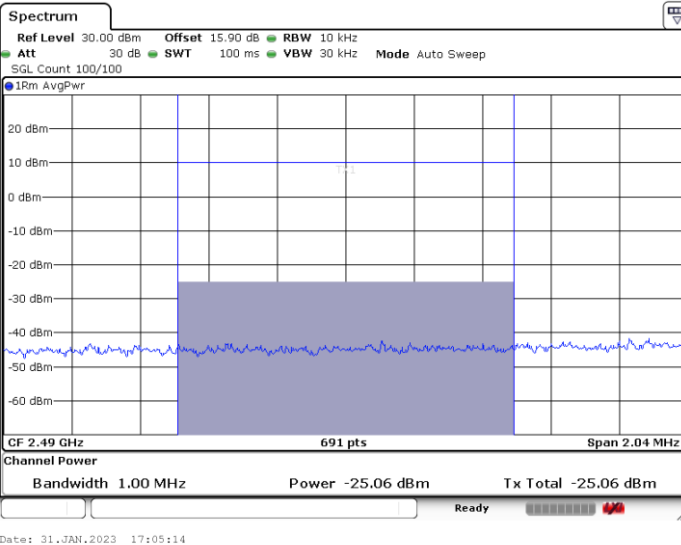
Lowest Band Edge / Full RB



Highest Band Edge / Full RB



Channel power -25dBm > -25.06dBm (PASS)

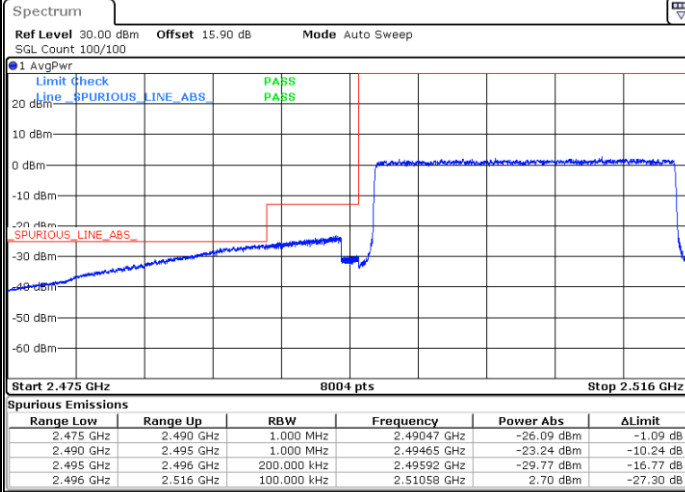




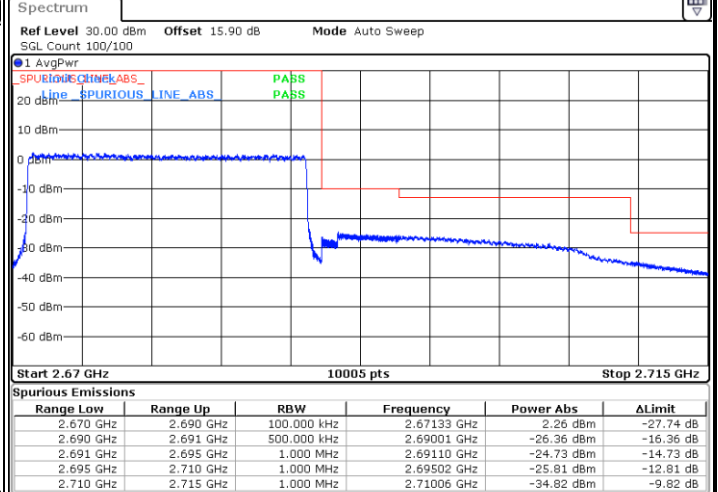
LTE Band 41 / 20MHz / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 31.JAN.2023 16:42:19

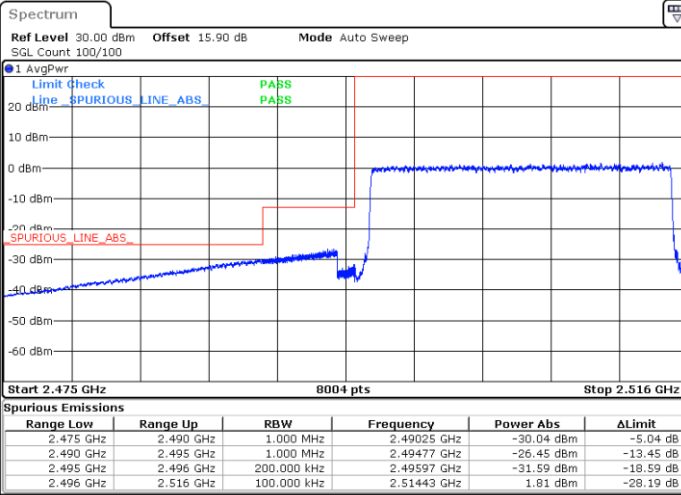


Date: 31.JAN.2023 16:50:06

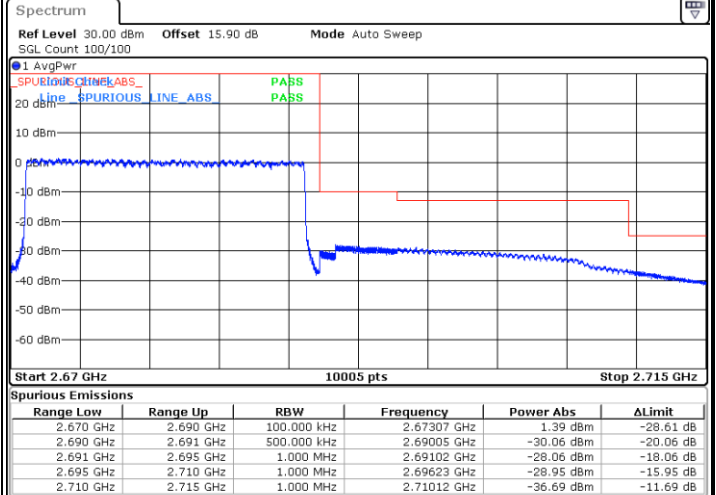


LTE Band 41 / 20MHz / 64QAM

Lowest Band Edge / Full RB

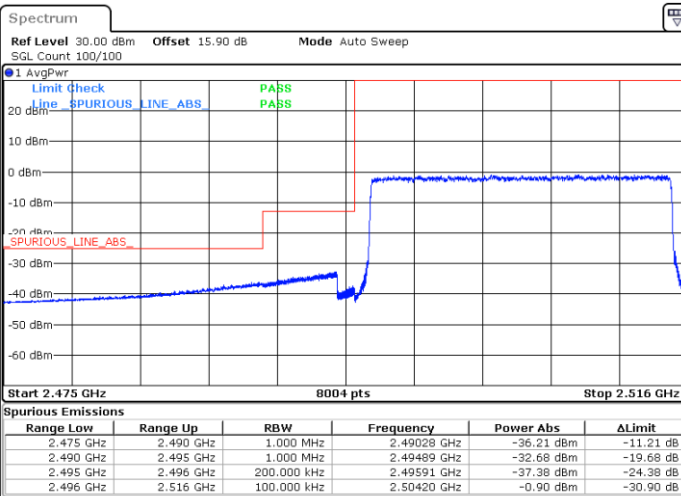


Highest Band Edge / Full RB

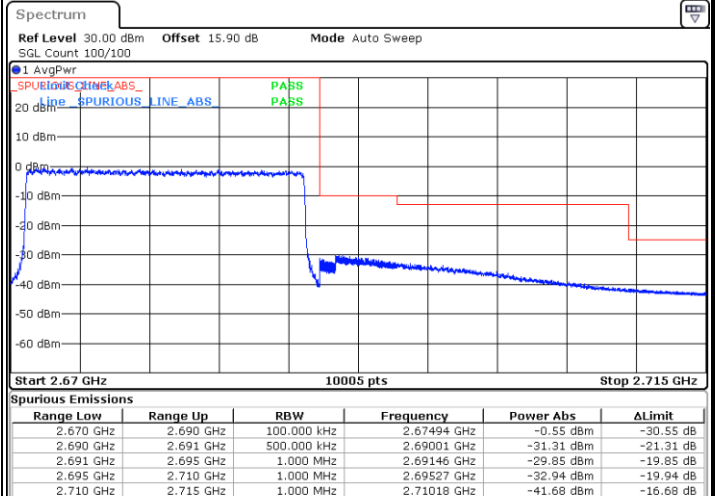


LTE Band 41 / 20MHz / 256QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

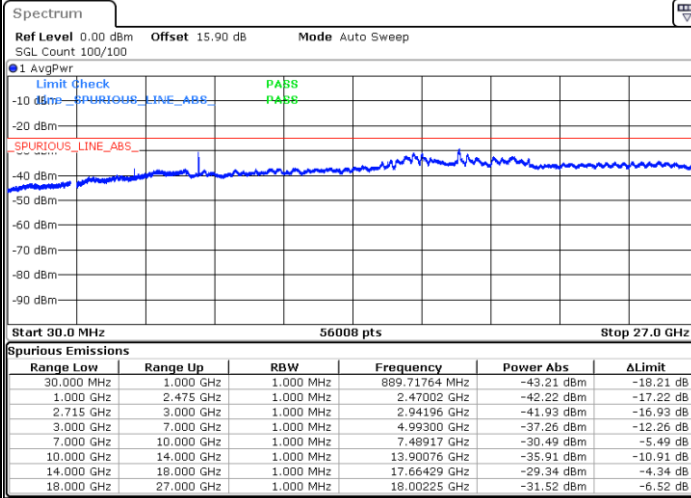




Conducted Spurious Emission

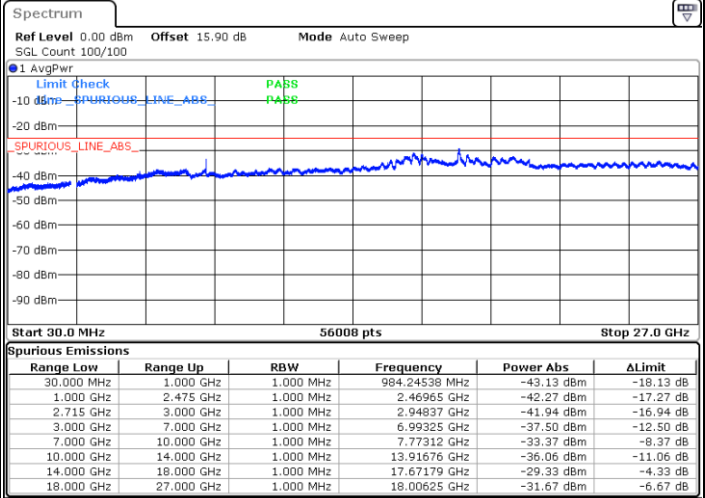
LTE Band 41 / 5MHz

Lowest Channel / QPSK



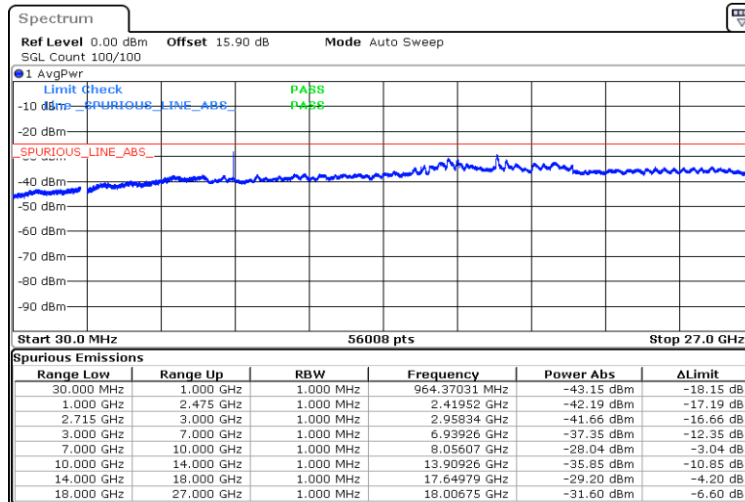
Date: 31.JAN.2023 15:33:40

Middle Channel / QPSK



Date: 31.JAN.2023 15:39:05

Highest Channel / QPSK

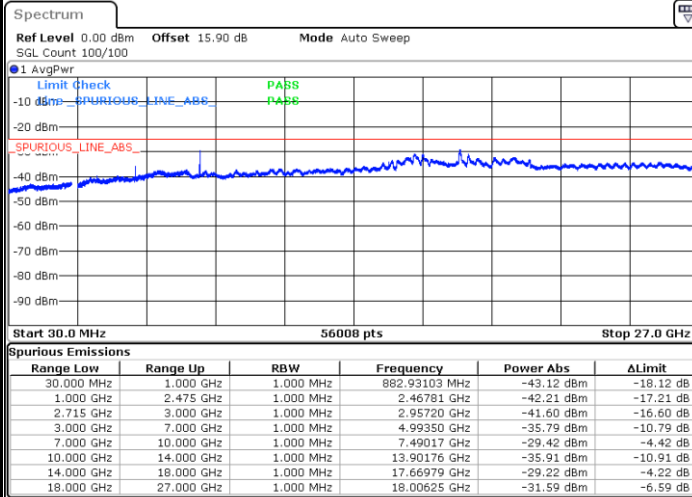


Date: 31.JAN.2023 16:03:14



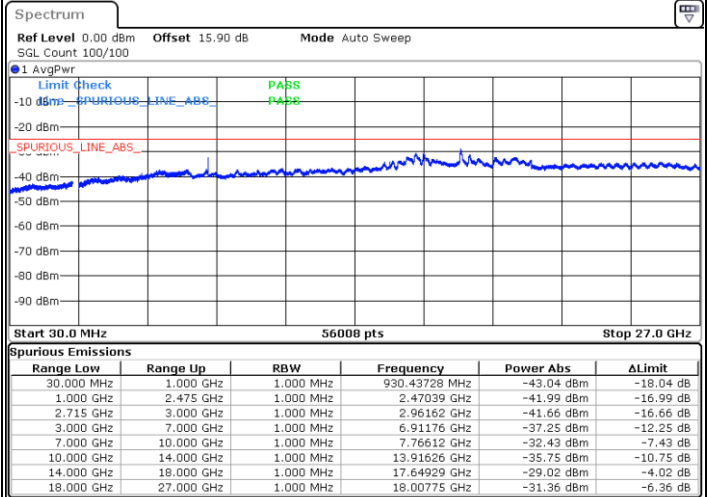
LTE Band 41 / 10MHz

Lowest Channel / QPSK



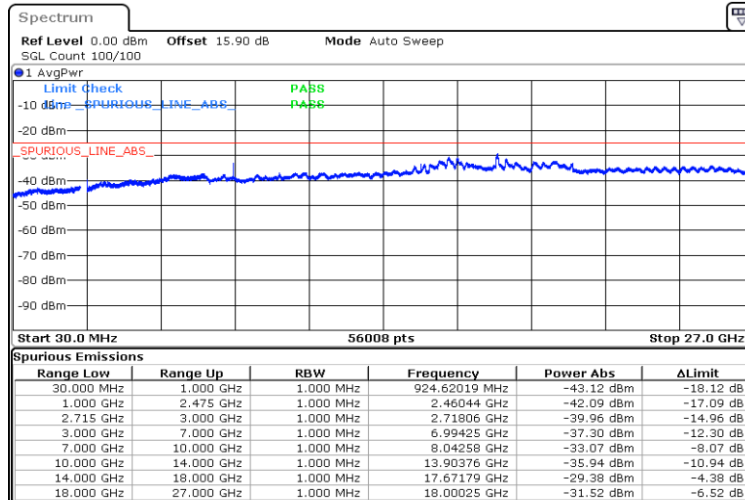
Date: 31.JAN.2023 16:53:27

Middle Channel / QPSK



Date: 31.JAN.2023 16:54:46

Highest Channel / QPSK



Date: 31.JAN.2023 16:56:04