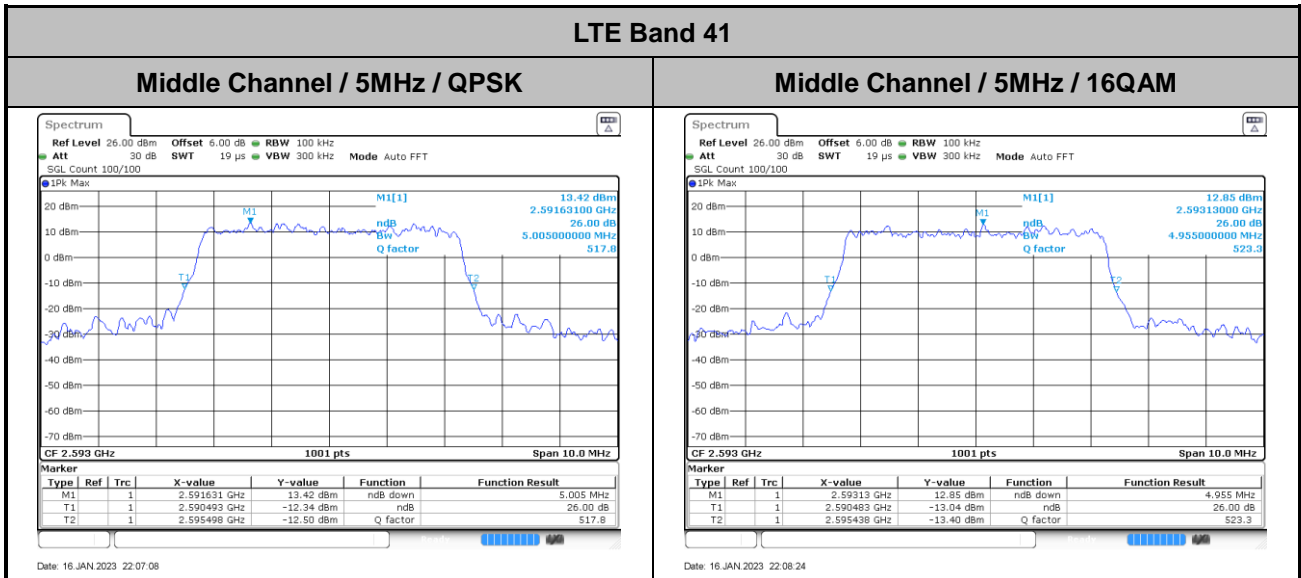




**26dB Bandwidth**

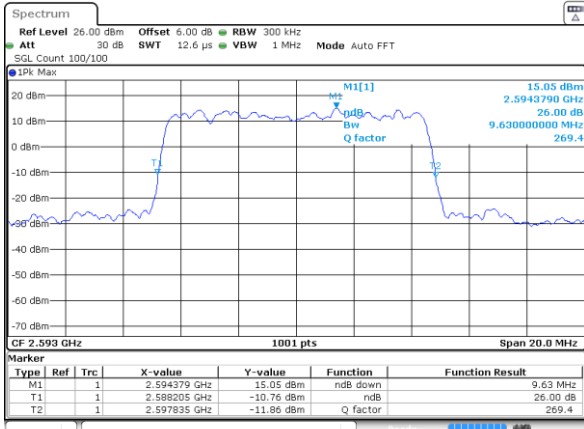
Mode	LTE Band 41 : 26dB BW(MHz)	
<b>BW</b>	<b>5MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	5.01	4.96
<b>BW</b>	<b>10MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	9.63	5.75
<b>BW</b>	<b>15MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	14.30	6.71
<b>BW</b>	<b>20MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	18.94	5.59





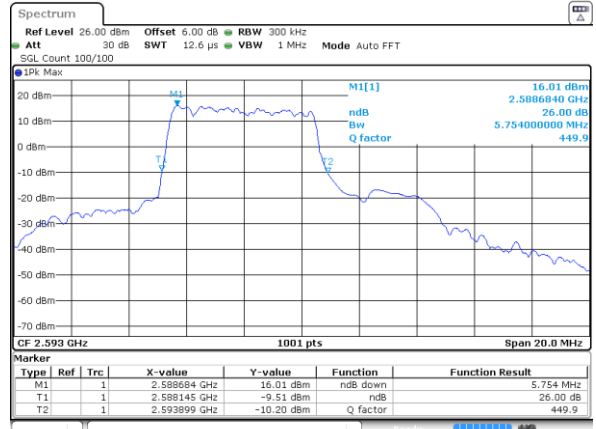
LTE Band 41

Middle Channel / 10MHz / QPSK



Date: 16 JAN 2023 22:04:27

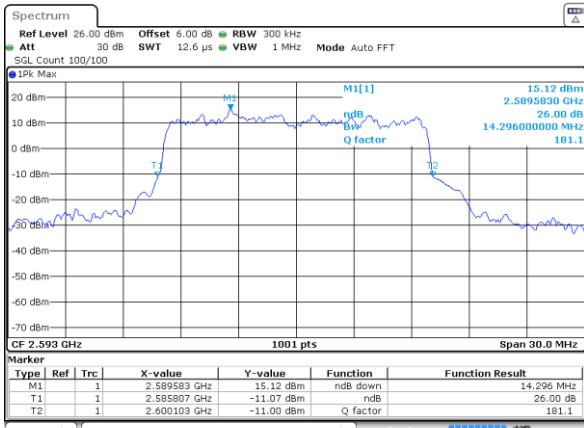
Middle Channel / 10MHz / 16QAM



Date: 16 JAN 2023 22:05:22

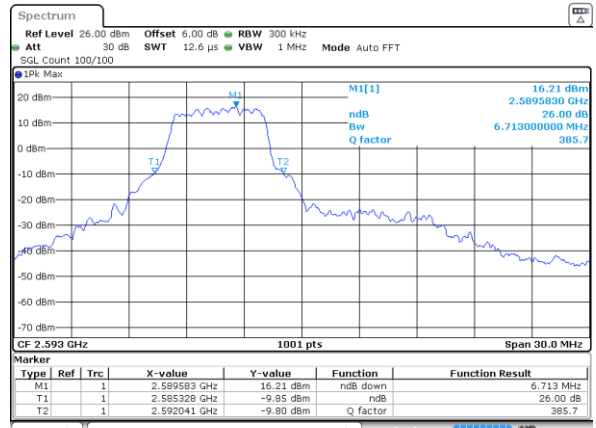
LTE Band 41

Middle Channel / 15MHz / QPSK



Date: 16 JAN 2023 22:01:39

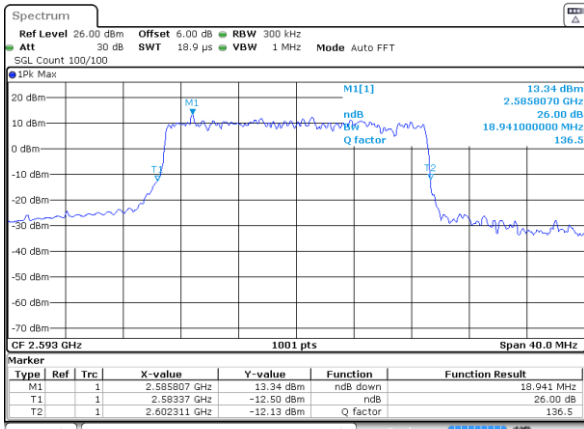
Middle Channel / 15MHz / 16QAM



Date: 16 JAN 2023 22:02:40

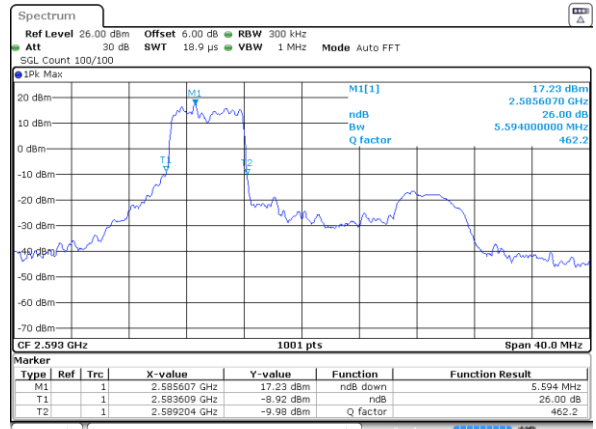
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 16 JAN 2023 21:57:53

Middle Channel / 20MHz / 16QAM

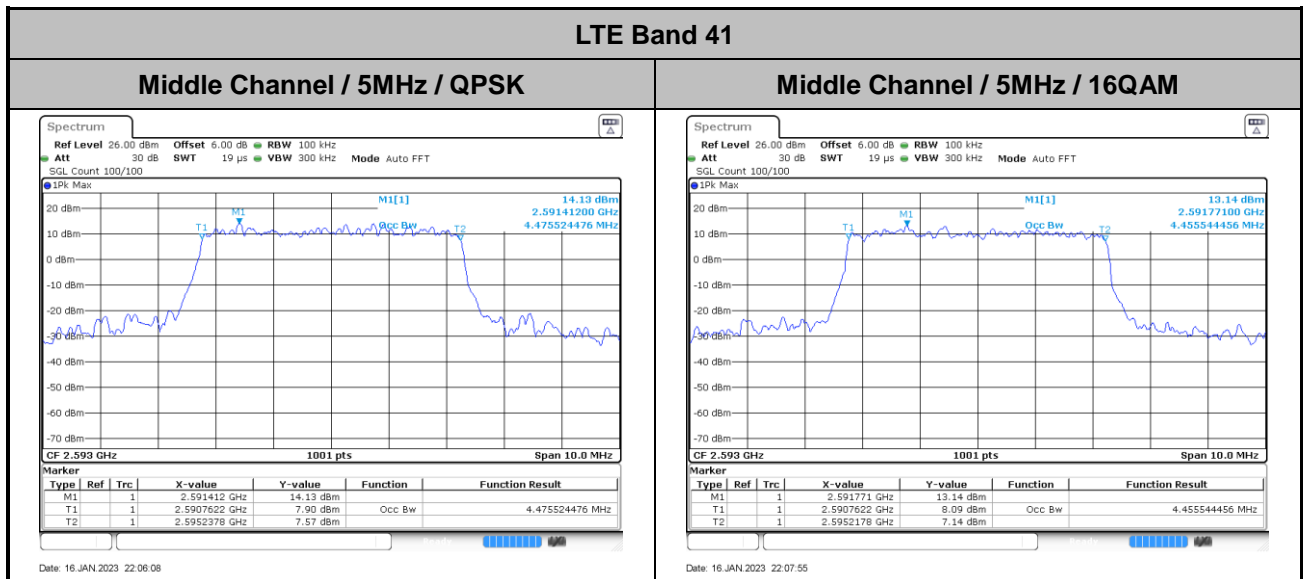


Date: 16 JAN 2023 21:59:59



## Occupied Bandwidth

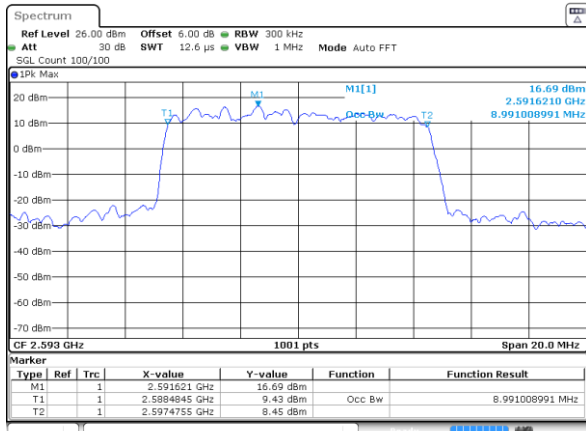
Mode	LTE Band 41 : 99%OBW(MHz)	
<b>BW</b>	<b>5MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	4.48	4.46
<b>BW</b>	<b>10MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	8.99	4.98
<b>BW</b>	<b>15MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	13.52	5.06
<b>BW</b>	<b>20MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	17.78	5.03





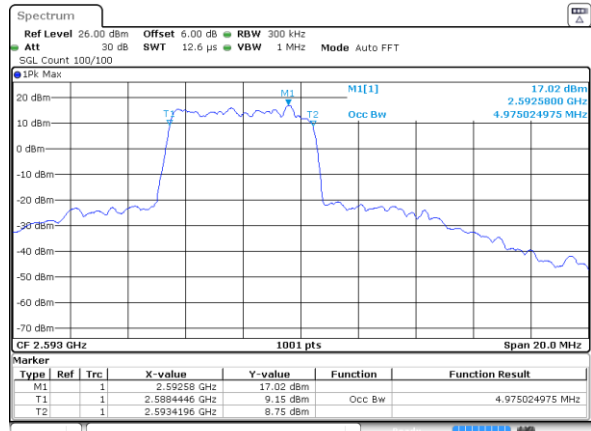
LTE Band 41

Middle Channel / 10MHz / QPSK



Date: 16 JAN 2023 22:03:51

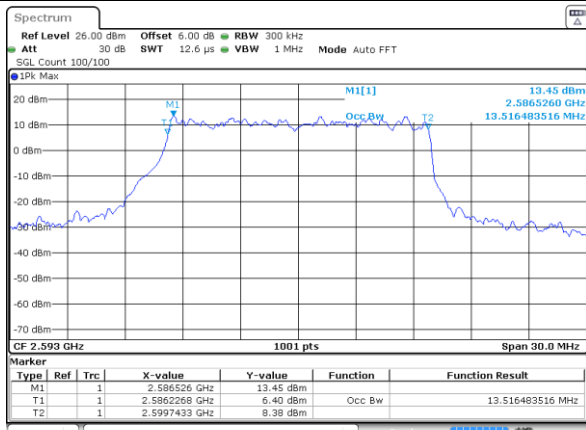
Middle Channel / 10MHz / 16QAM



Date: 16 JAN 2023 22:05:08

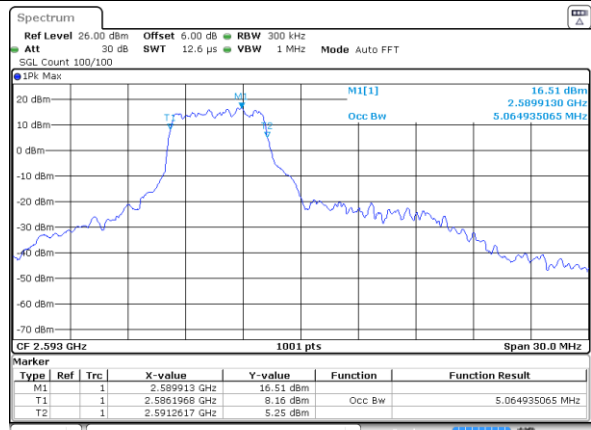
LTE Band 41

Middle Channel / 15MHz / QPSK



Date: 16 JAN 2023 22:01:16

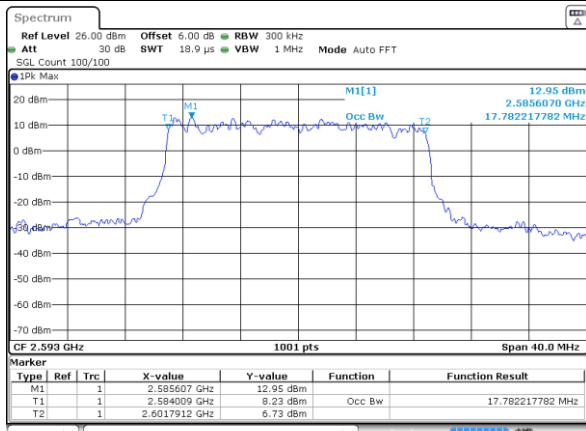
Middle Channel / 15MHz / 16QAM



Date: 16 JAN 2023 22:02:22

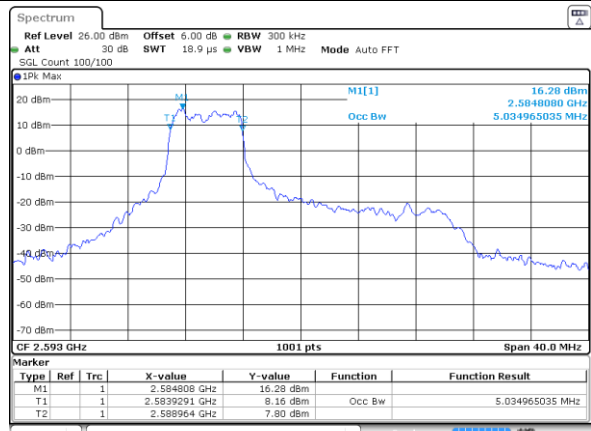
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 16 JAN 2023 21:57:23

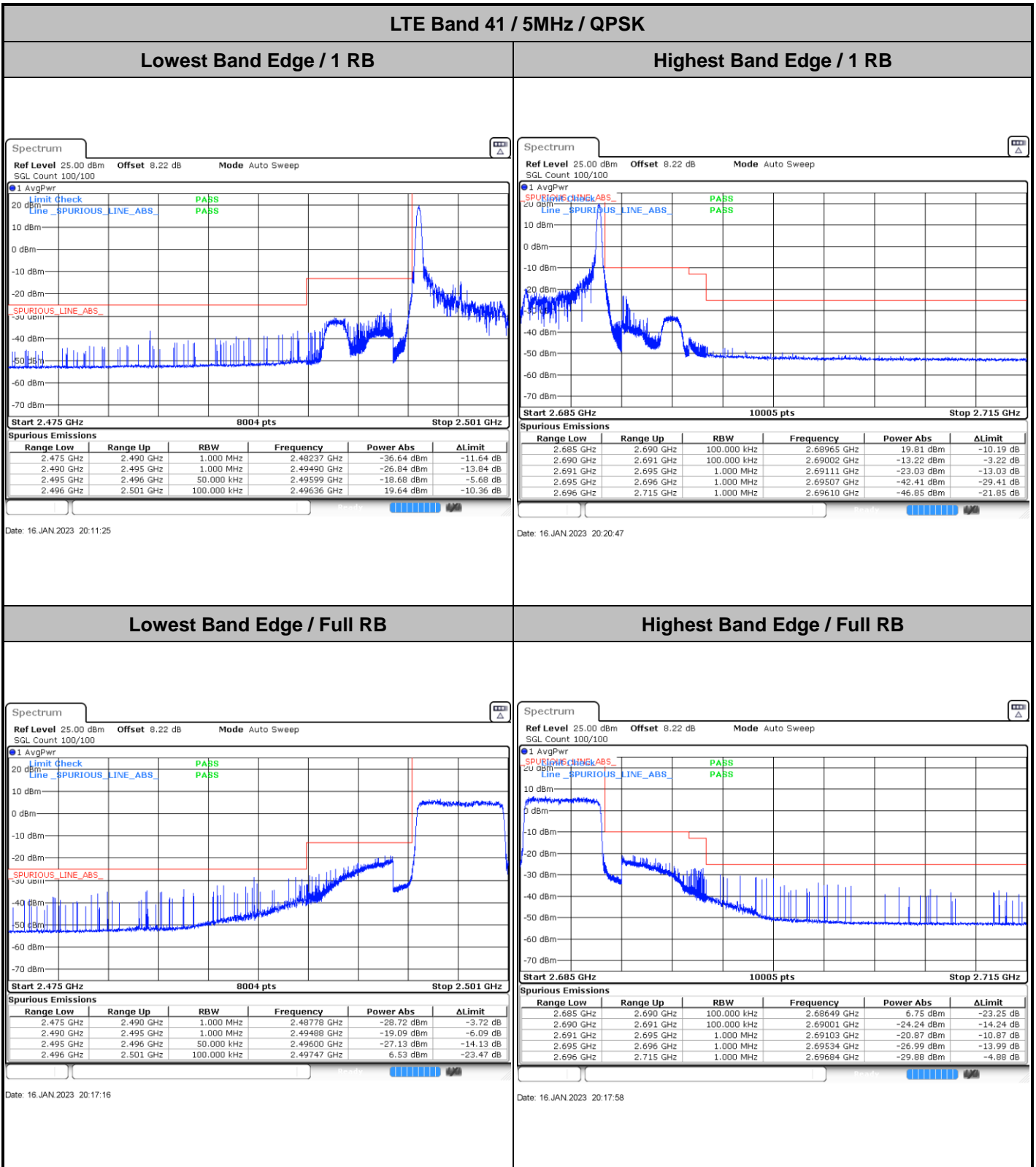
Middle Channel / 20MHz / 16QAM



Date: 16 JAN 2023 21:59:41



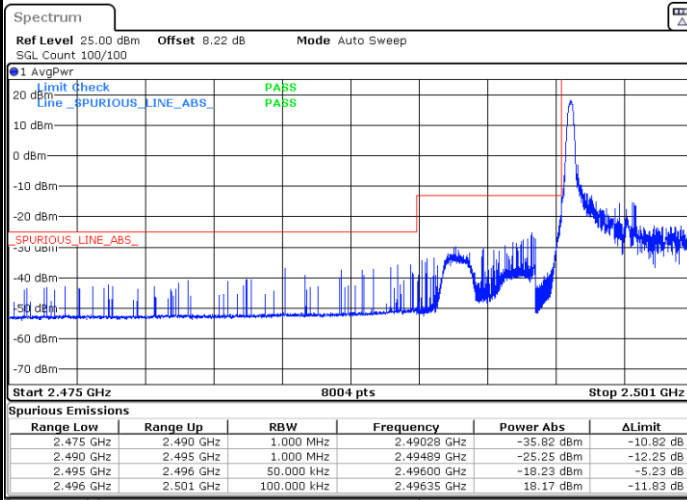
# Conducted Band Edge





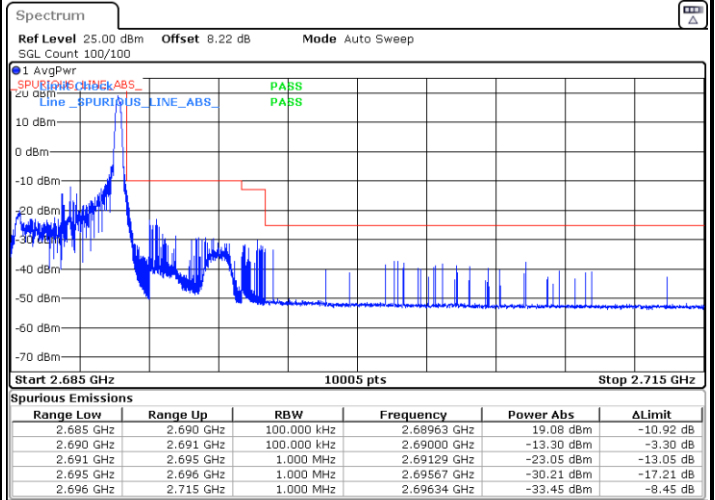
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



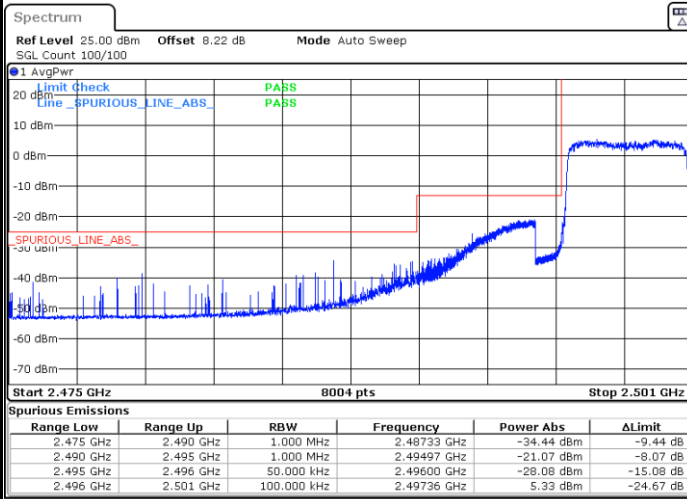
Date: 16 JAN 2023 20:13:49

Highest Band Edge / 1 RB



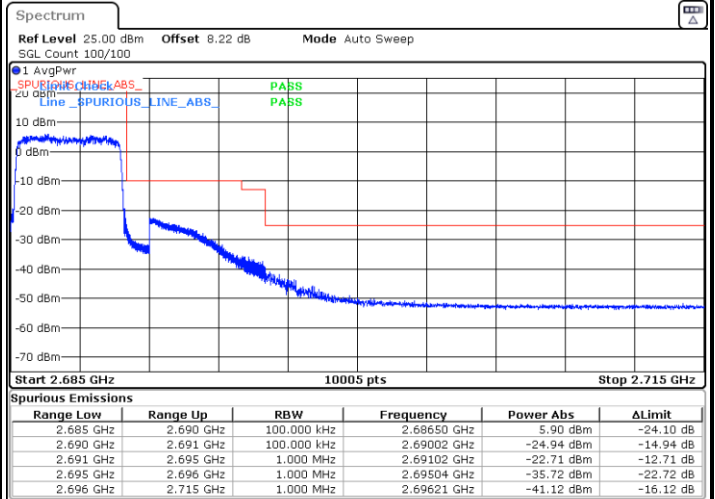
Date: 16 JAN 2023 20:19:32

Lowest Band Edge / Full RB



Date: 16 JAN 2023 20:16:17

Highest Band Edge / Full RB

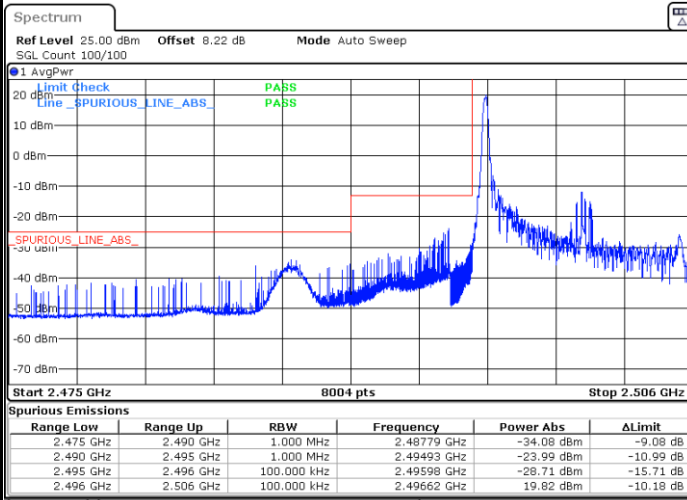


Date: 16 JAN 2023 20:18:42



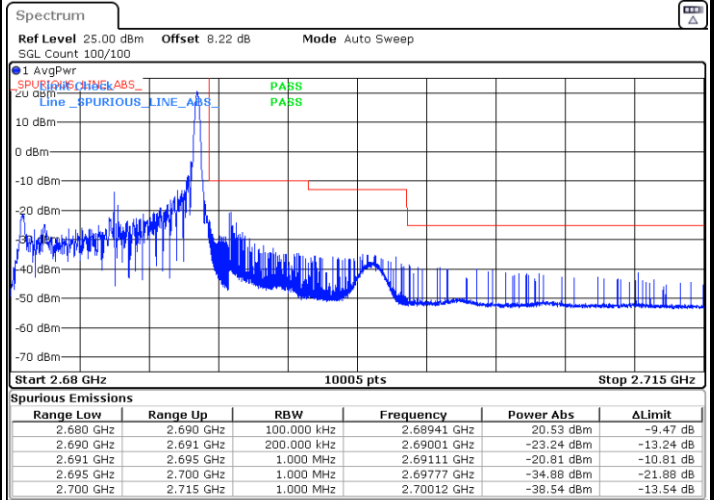
LTE Band 41 / 10MHz / QPSK

Lowest Band Edge / 1 RB



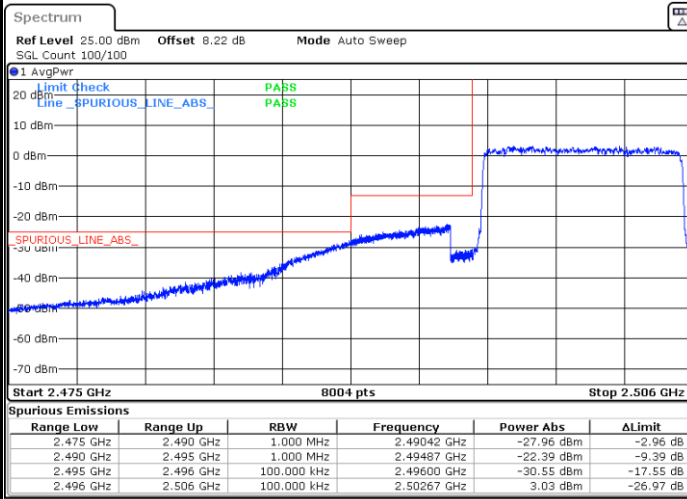
Date: 16 JAN 2023 20:38:02

Highest Band Edge / 1 RB



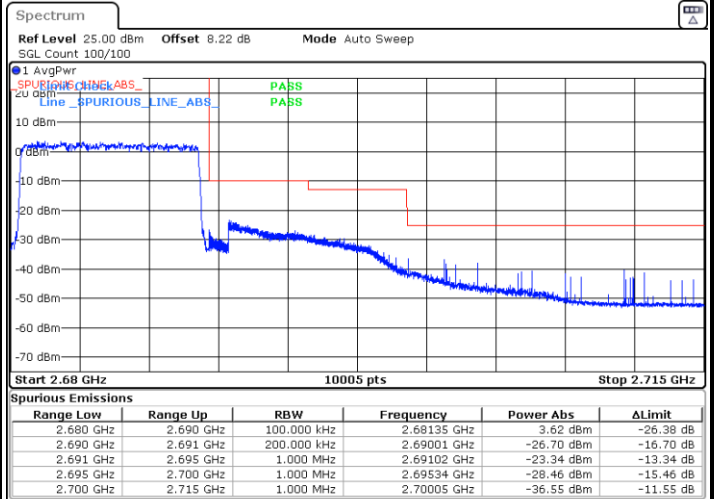
Date: 16 JAN 2023 20:44:22

Lowest Band Edge / Full RB



Date: 16 JAN 2023 20:40:17

Highest Band Edge / Full RB

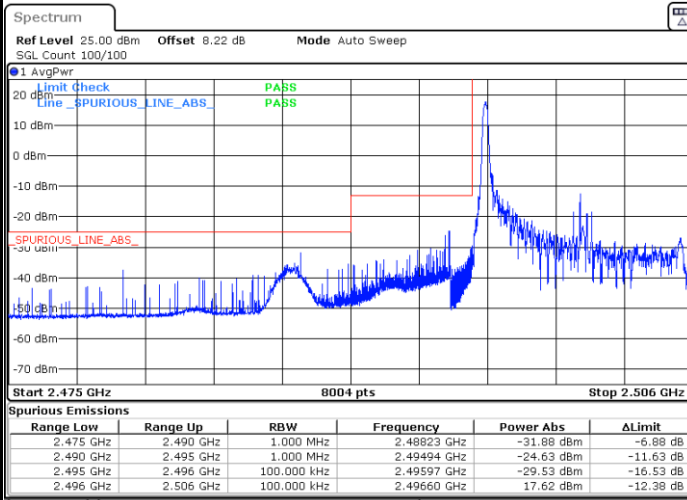


Date: 16 JAN 2023 20:45:47



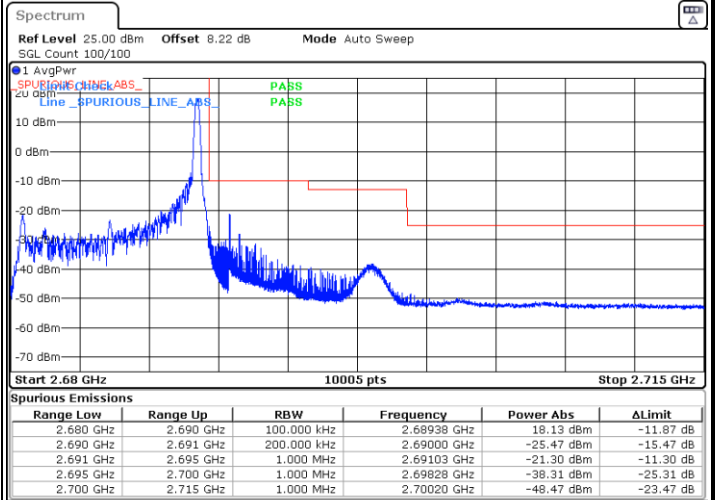
LTE Band 41 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



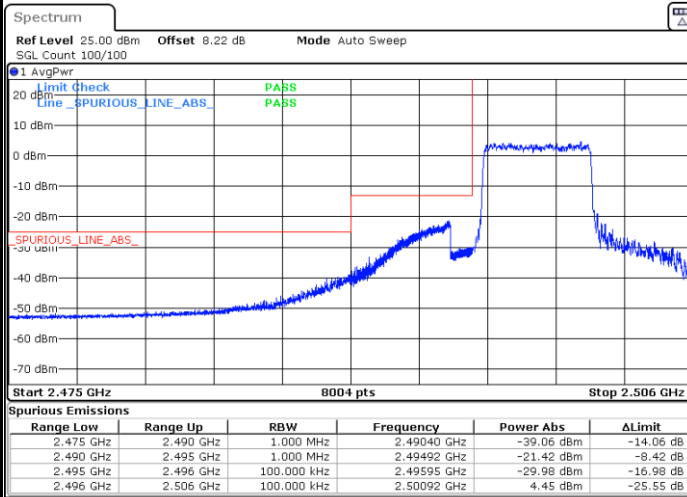
Date: 16 JAN 2023 20:38:49

Highest Band Edge / 1 RB



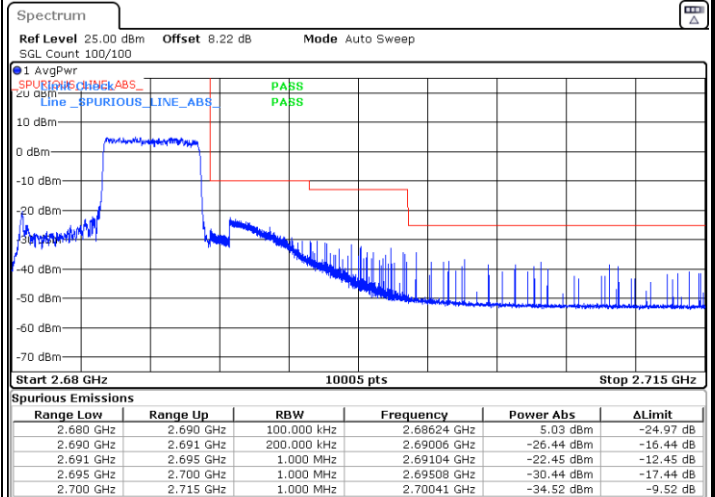
Date: 16 JAN 2023 20:43:52

Lowest Band Edge / Full RB



Date: 16 JAN 2023 20:41:46

Highest Band Edge / Full RB



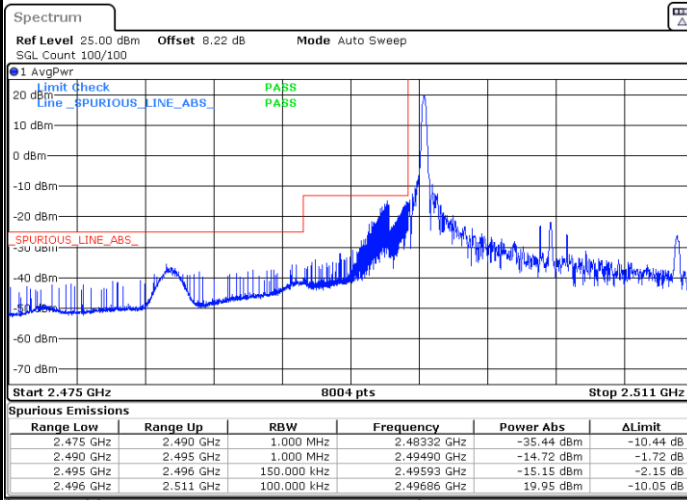
Date: 16 JAN 2023 20:47:50





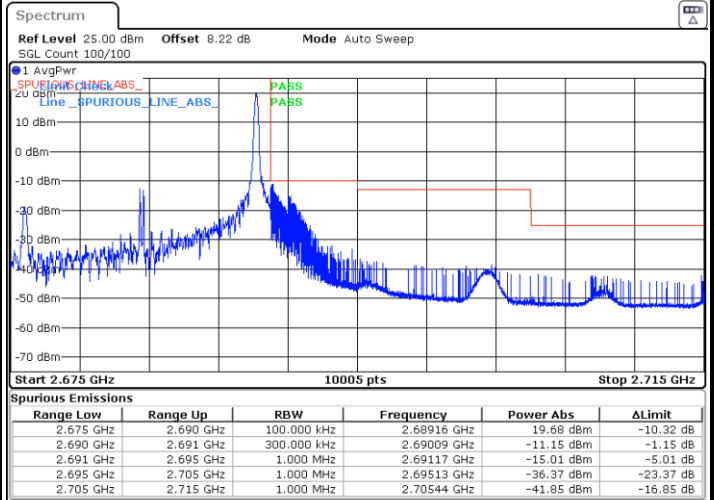
LTE Band 41 / 15MHz / QPSK

Lowest Band Edge / 1 RB



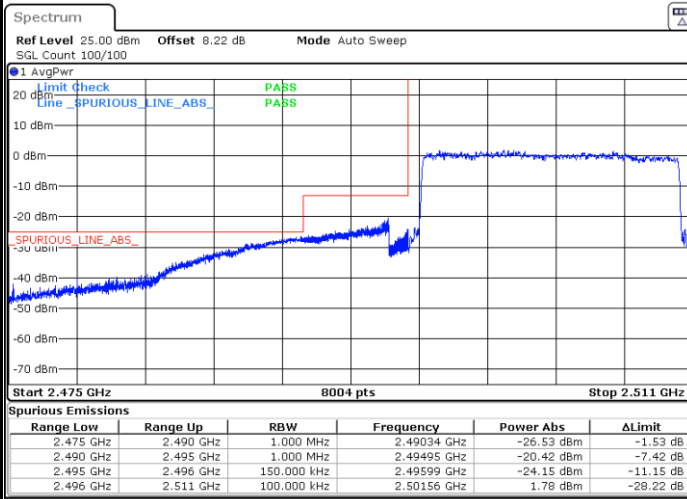
Date: 16 JAN 2023 20:57:01

Highest Band Edge / 1 RB



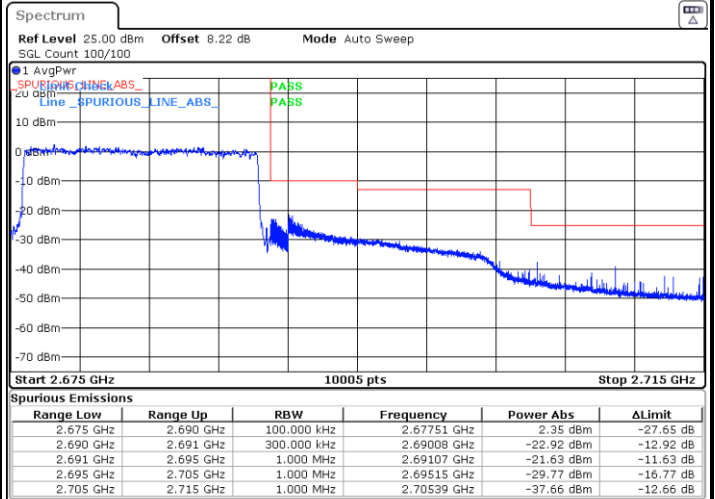
Date: 16 JAN 2023 21:32:23

Lowest Band Edge / Full RB



Date: 16 JAN 2023 21:33:26

Highest Band Edge / Full RB

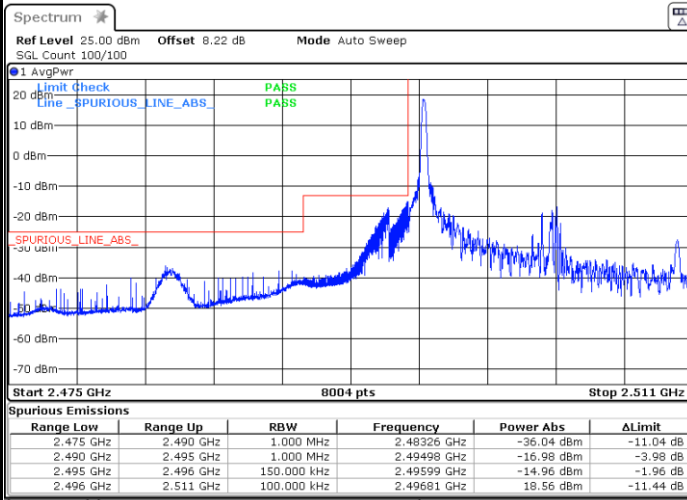


Date: 16 JAN 2023 21:18:04



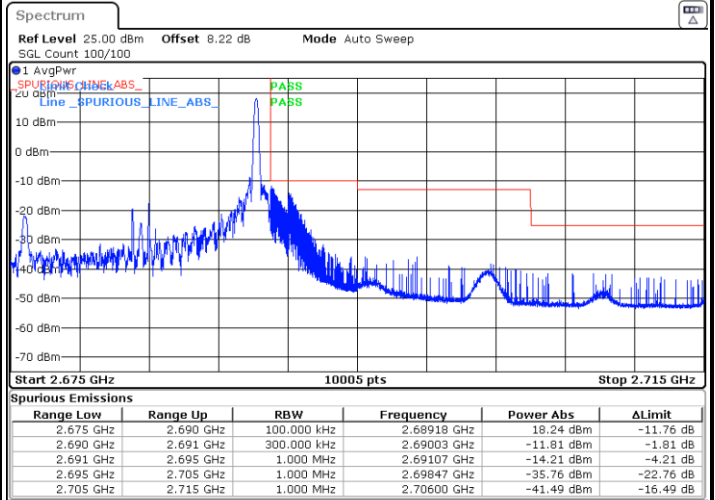
LTE Band 41 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



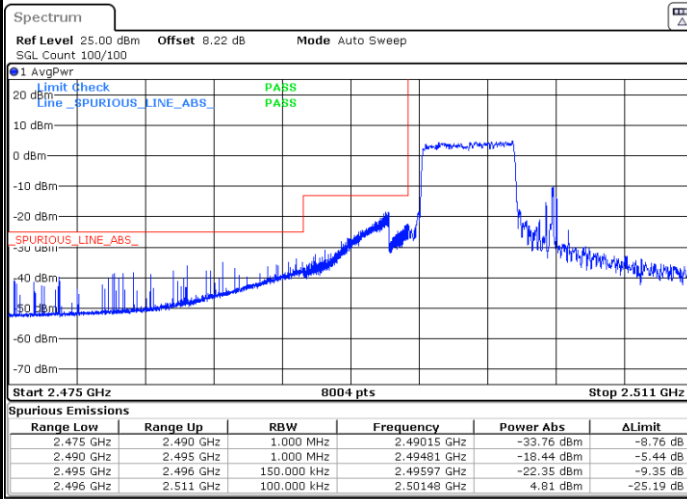
Date: 16 JAN 2023 21:11:39

Highest Band Edge / 1 RB



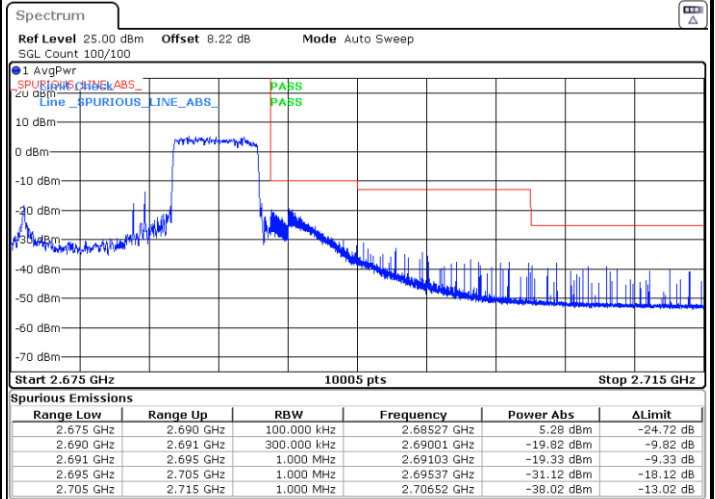
Date: 16 JAN 2023 21:15:58

Lowest Band Edge / Full RB



Date: 16 JAN 2023 21:13:10

Highest Band Edge / Full RB

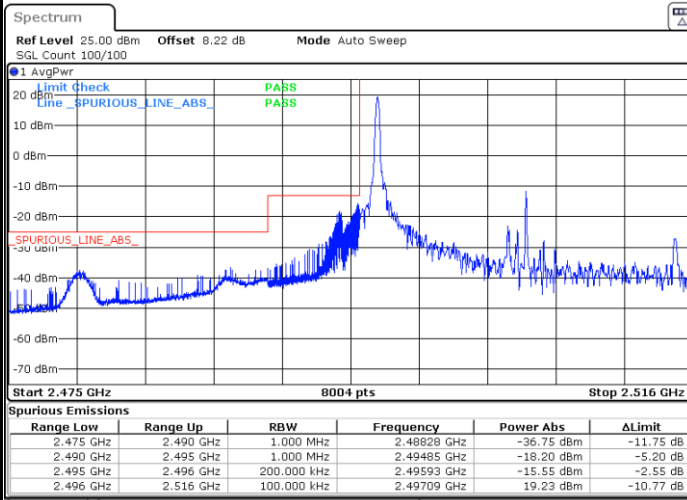


Date: 16 JAN 2023 21:17:05



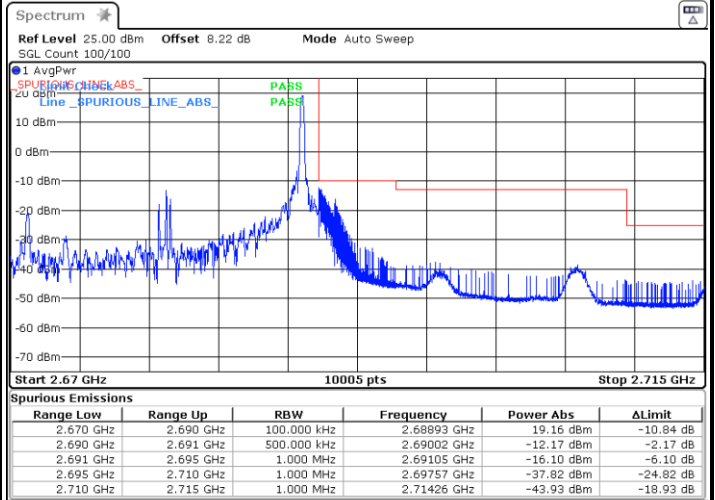
LTE Band 41 / 20MHz / QPSK

Lowest Band Edge / 1 RB



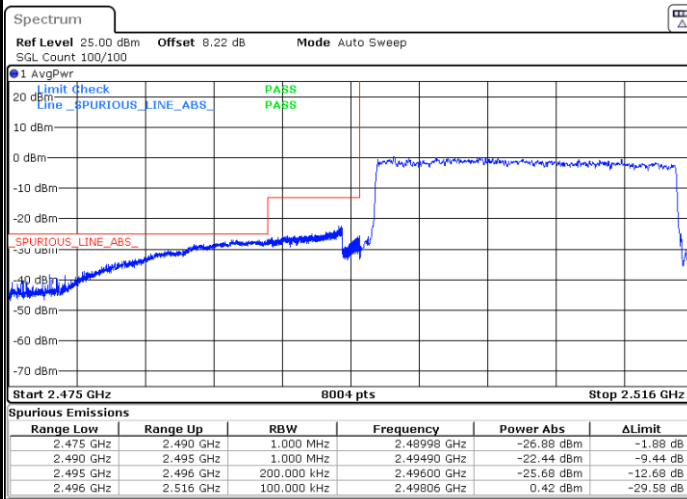
Date: 16 JAN 2023 21:23:56

Highest Band Edge / 1 RB



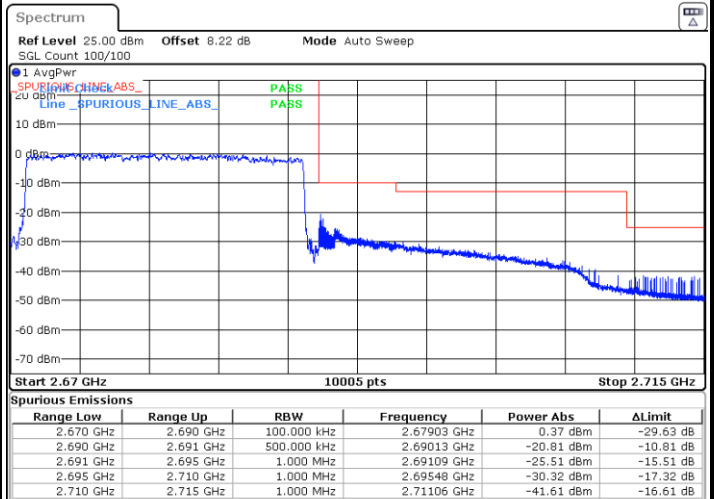
Date: 16 JAN 2023 21:30:45

Lowest Band Edge / Full RB



Date: 16 JAN 2023 21:35:05

Highest Band Edge / Full RB

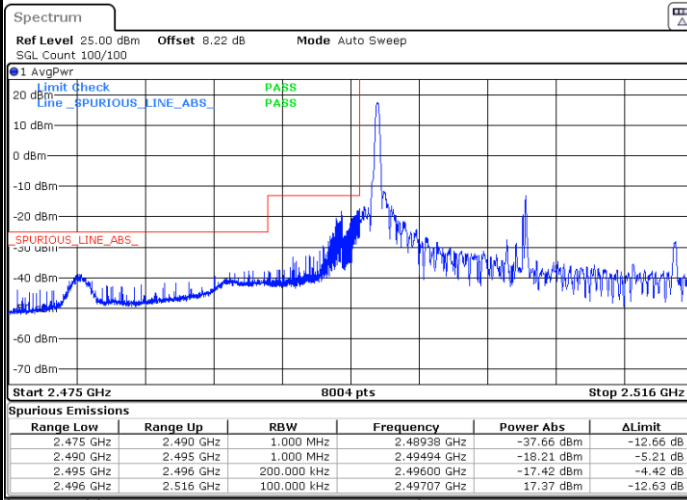


Date: 16 JAN 2023 21:26:36



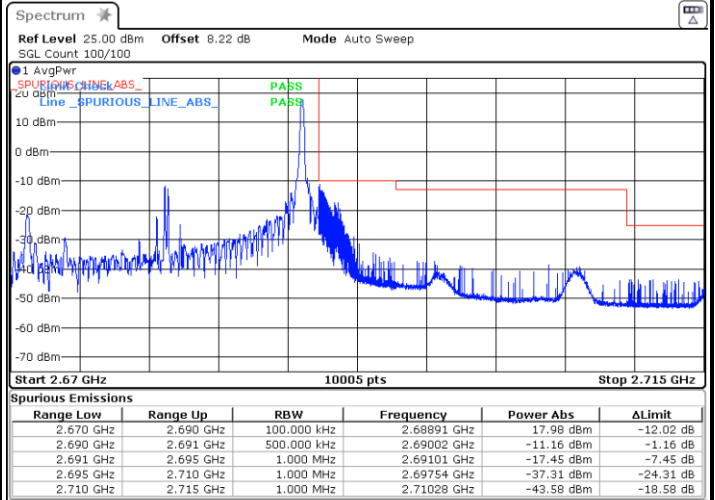
LTE Band 41 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



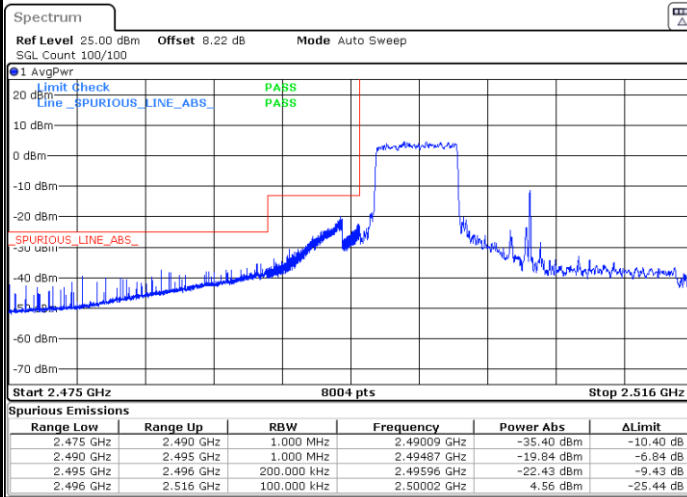
Date: 16 JAN 2023 21:24:30

Highest Band Edge / 1 RB



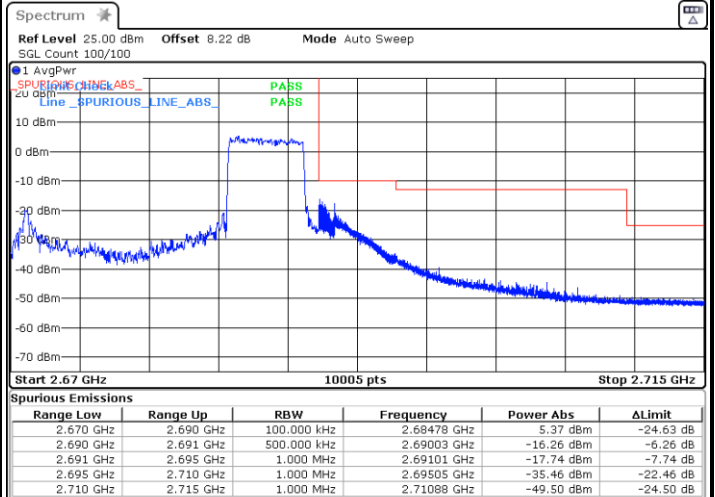
Date: 16 JAN 2023 21:29:30

Lowest Band Edge / Full RB



Date: 16 JAN 2023 21:25:15

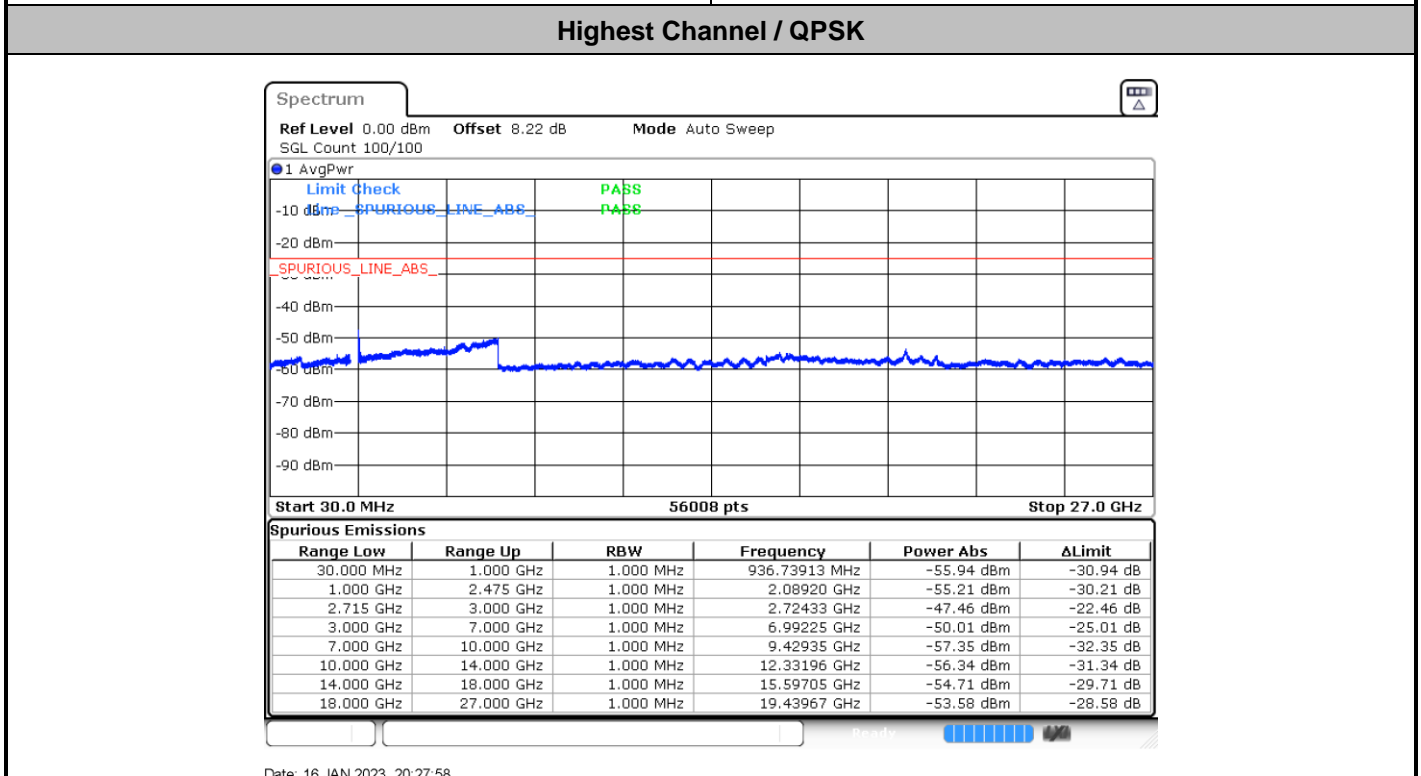
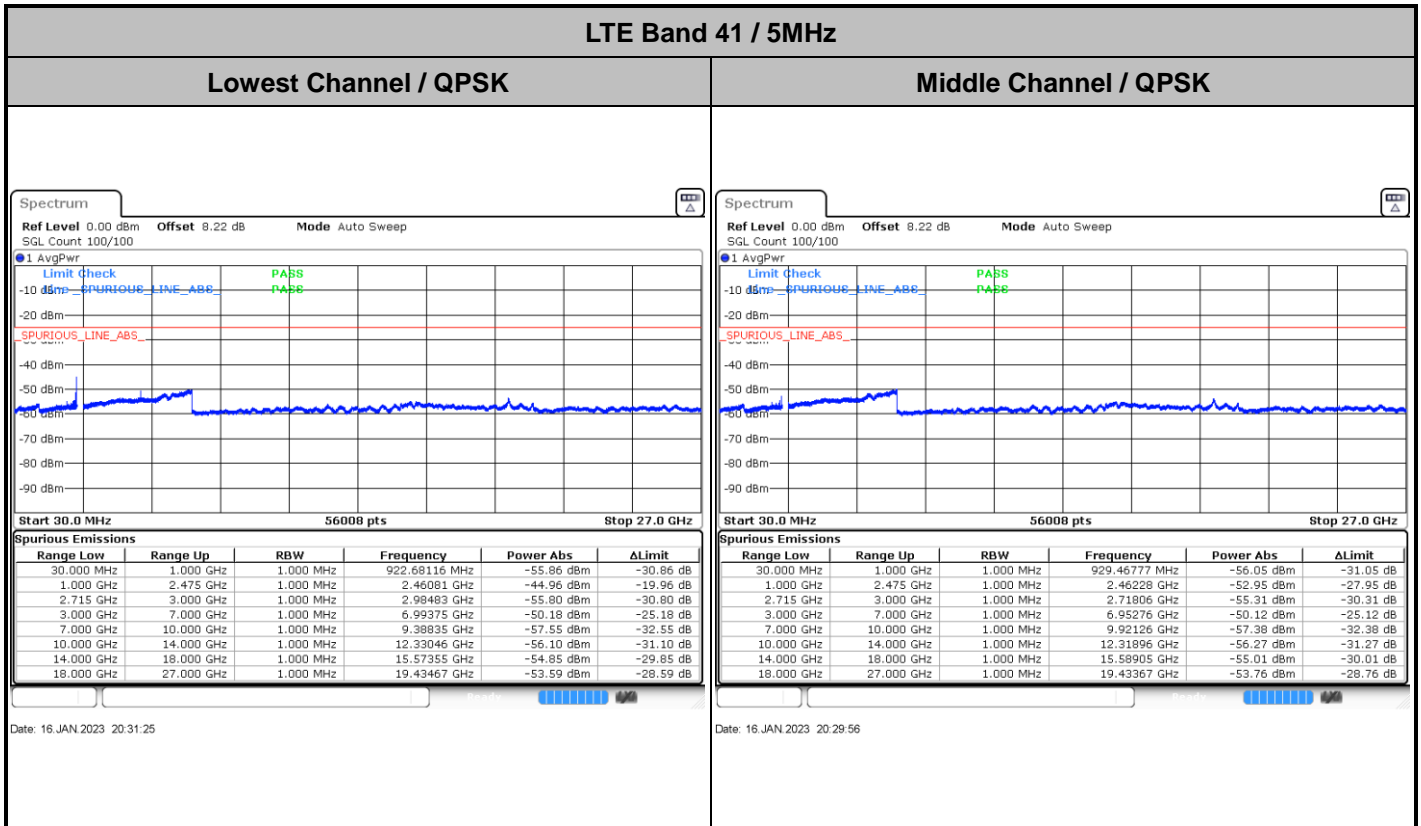
Highest Band Edge / Full RB



Date: 16 JAN 2023 21:28:25



# Conducted Spurious Emission

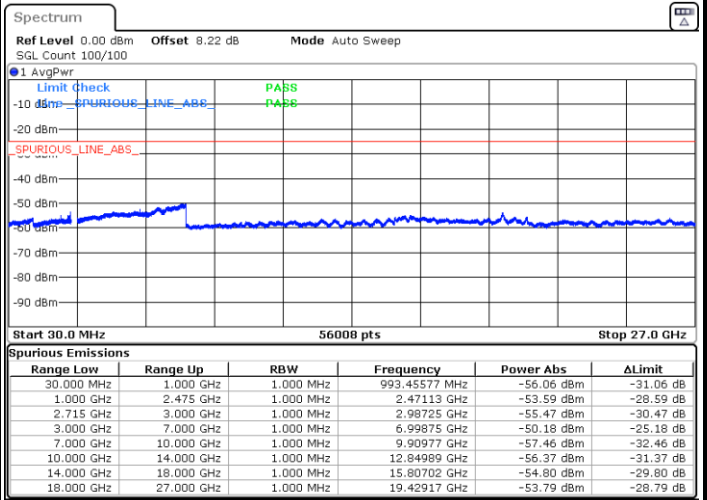
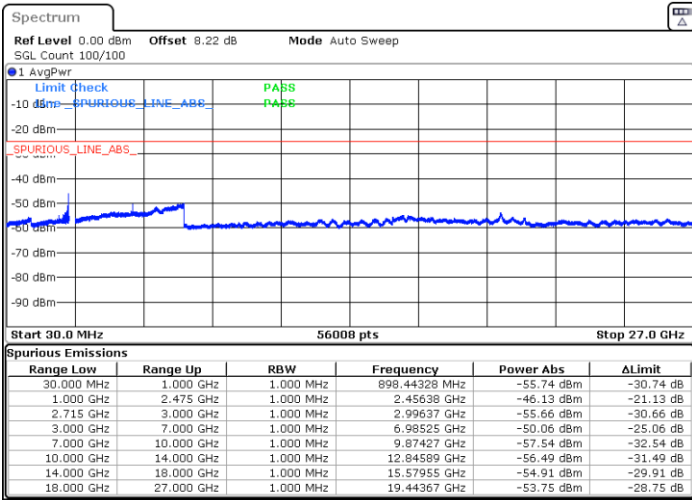




LTE Band 41 / 10MHz

Lowest Channel / QPSK

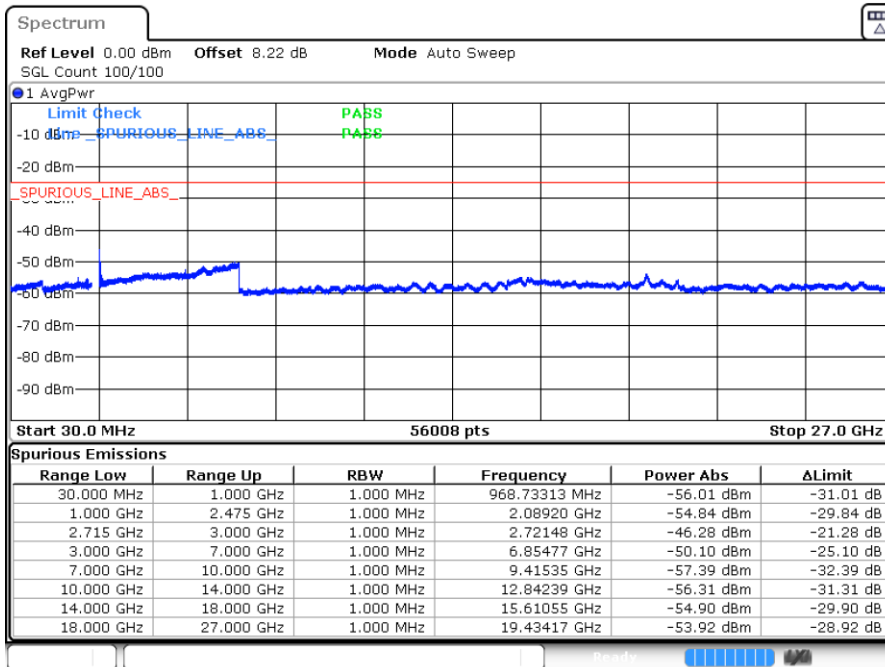
Middle Channel / QPSK



Date: 16 JAN 2023 20:36:59

Date: 16 JAN 2023 20:33:47

Highest Channel / QPSK



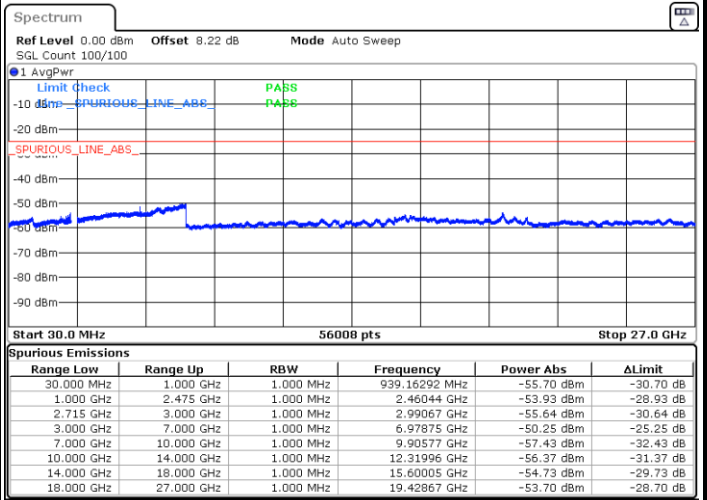
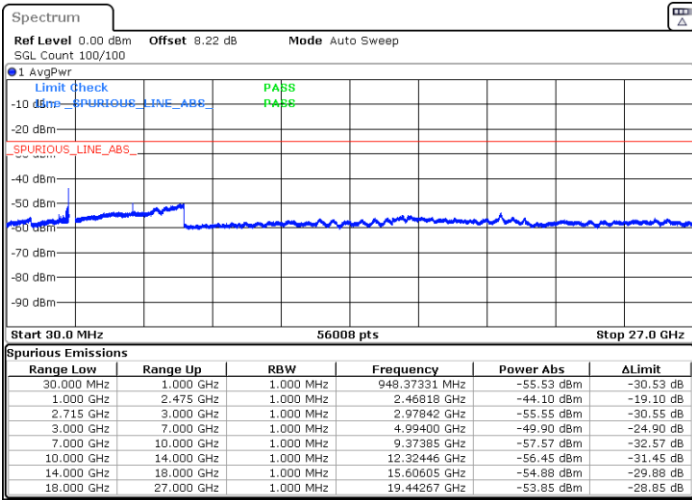
Date: 16 JAN 2023 20:35:27



LTE Band 41 / 15MHz

Lowest Channel / QPSK

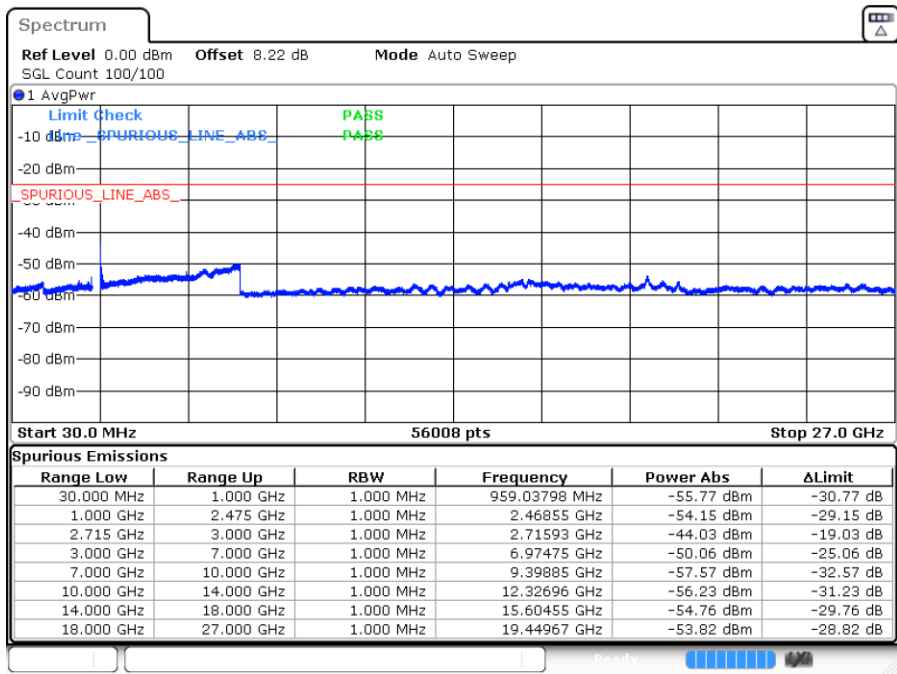
Middle Channel / QPSK



Date: 16 JAN 2023 20:55:48

Date: 16 JAN 2023 20:52:39

Highest Channel / QPSK

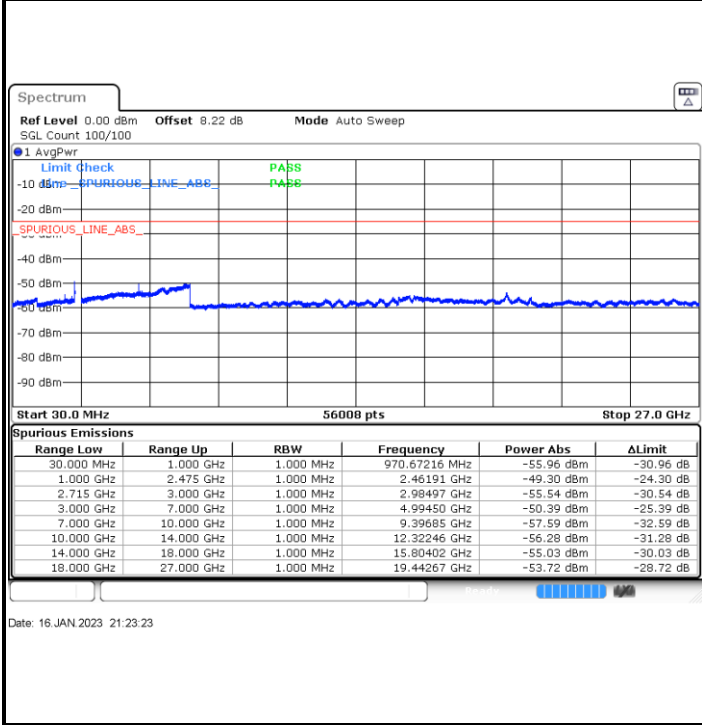


Date: 16 JAN 2023 20:54:10

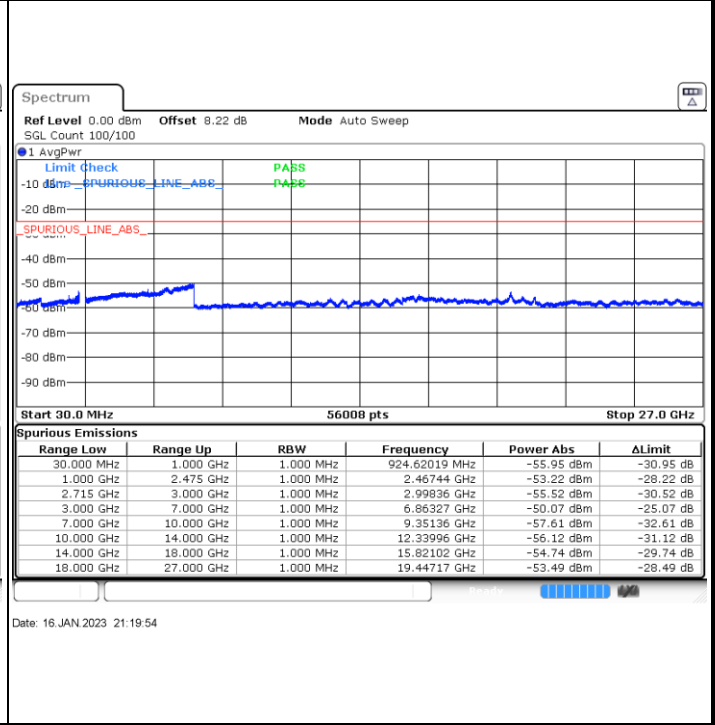


**LTE Band 41 / 20MHz**

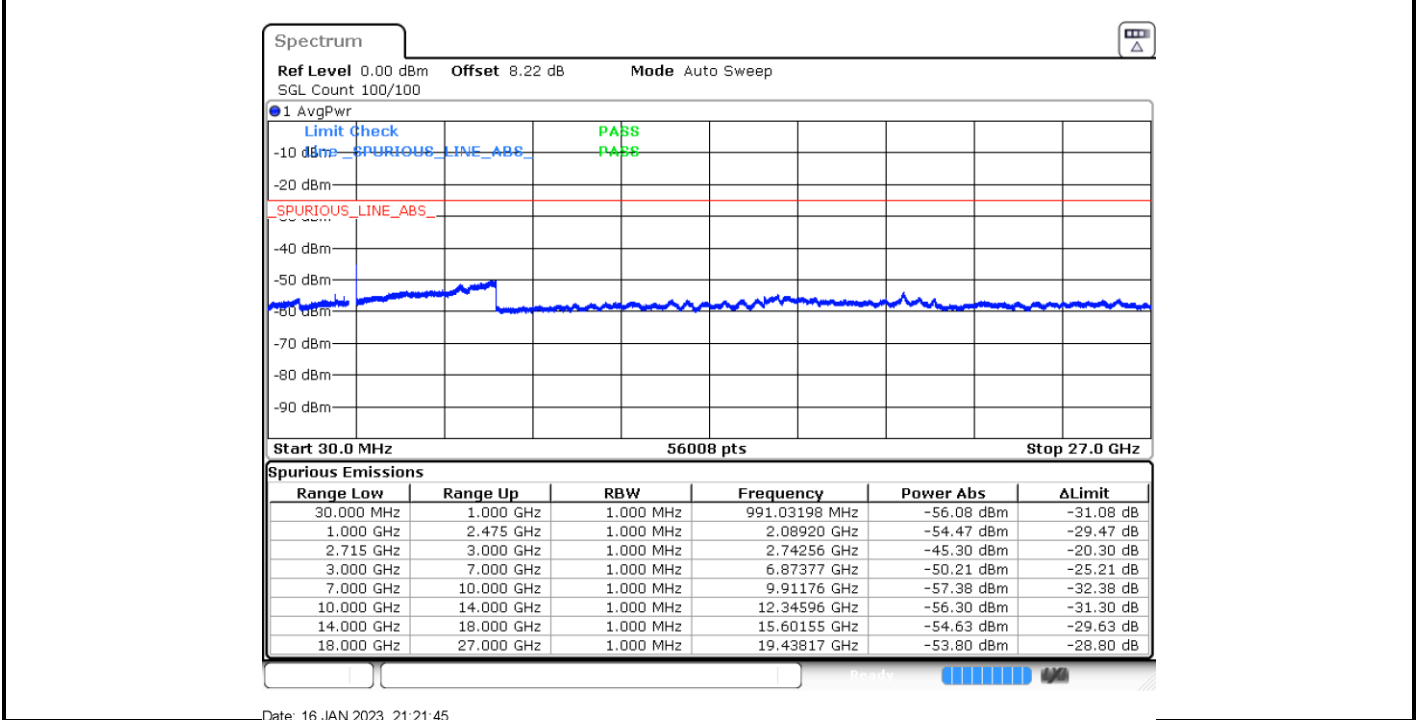
**Lowest Channel / QPSK**



**Middle Channel / QPSK**



**Highest Channel / QPSK**







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	0.0011	PASS
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0026	
0	Normal Voltage	0.0023	
-10	Normal Voltage	0.0001	
-20	Normal Voltage	0.0035	
-30	Normal Voltage	0.0037	
20	Maximum Voltage	0.0026	
20	Normal Voltage	0.0041	
20	End Point	0.0025	

Note:

1. Normal Voltage =3.8V. ; Battery End Point (BEP) =3.3 V. ; Maximum Voltage =4.3V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



# Appendix B. Test Results of Radiated Test

## Radiated Spurious Emission

Test Engineer :	Carl Ni	Temperature :	23~25°C
		Relative Humidity :	41~42%

LTE Band 7 / 20MHz / QPSK								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5050	-65.01	-25	-40.01	-75.22	3.03	13.24	H
	7578	-64.44	-25	-39.44	-73.89	3.56	13.01	H
	10107	-60.85	-25	-35.85	-70.37	3.92	13.44	H
	5050	-64.82	-25	-39.82	-75.03	3.03	13.24	V
	7578	-64.32	-25	-39.32	-73.77	3.56	13.01	V
	10107	-61.14	-25	-36.14	-70.66	3.92	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 12 / 10MHz / QPSK								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1406	-65.14	-13	-52.14	-72.11	1.58	10.70	H
	2109	-60.91	-13	-47.91	-69.16	2.102	12.50	H
	2812	-58.64	-13	-45.64	-67.53	2.856	13.90	H
	1406	-65.05	-13	-52.05	-72.02	1.58	10.70	V
	2109	-59.48	-13	-46.48	-67.73	2.10	12.50	V
	2812	-58.39	-13	-45.39	-67.28	2.86	13.90	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 13 / 5MHz / QPSK								
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1560	-64.89	-42.15	-22.74	-67.52	1.09	5.87	H
	2339.25	-60.83	-13	-47.83	-63.23	1.37	5.92	H
	3120	-59.13	-13	-46.13	-63.02	1.64	7.68	H
	1560	-64.69	-42.15	-22.54	-67.32	1.09	5.87	V
	2339.25	-59.60	-13	-46.60	-62.00	1.37	5.92	V
	3120	-58.79	-13	-45.79	-62.68	1.64	7.68	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 13 / 10MHz / QPSK								
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1555	-65.00	-13	-52.00	-67.63	1.09	5.87	H
	2332.5	-60.94	-13	-47.94	-63.34	1.37	5.92	H
	3110	-59.25	-13	-46.25	-63.14	1.64	7.68	H
	1555	-64.89	-13	-51.89	-67.52	1.09	5.87	V
	2332.5	-60.06	-13	-47.06	-62.46	1.37	5.92	V
	3110	-58.92	-13	-45.92	-62.81	1.64	7.68	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 41 / 20MHz / QPSK								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5170	-65.00	-25	-40.00	-75.21	3.03	13.24	H
	7752	-63.80	-25	-38.80	-73.25	3.56	13.01	H
	10332	-59.81	-25	-34.81	-69.33	3.92	13.44	H
	5170	-64.92	-25	-39.92	-75.13	3.03	13.24	V
	7752	-63.84	-25	-38.84	-73.29	3.56	13.01	V
	10332	-59.76	-25	-34.76	-69.28	3.92	13.44	V

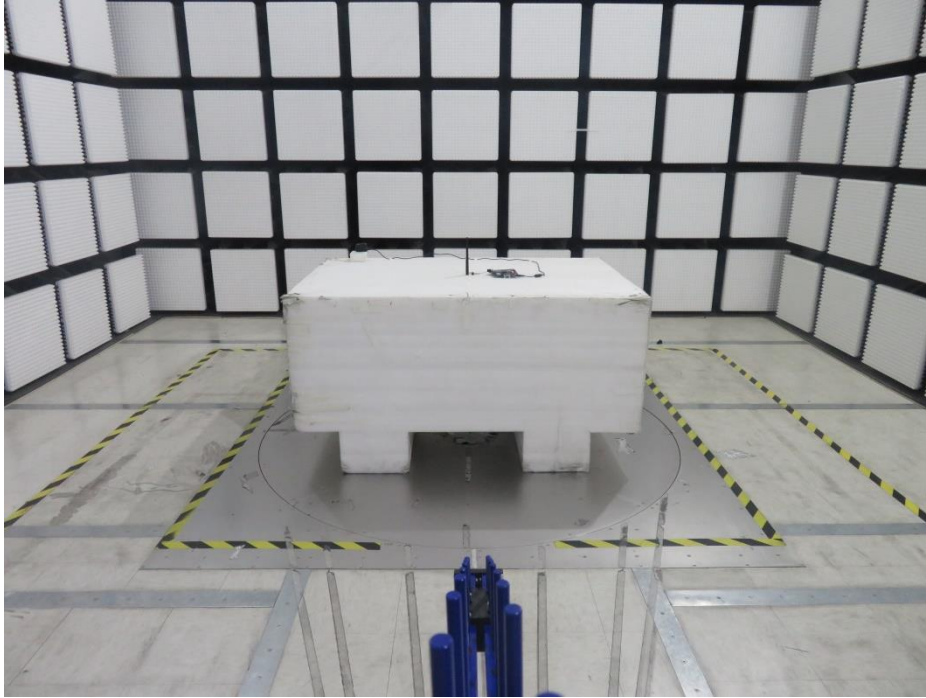
Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

## Appendix C. Setup Photographs

<Radiated Emission>

Y Plane

LF



HF

