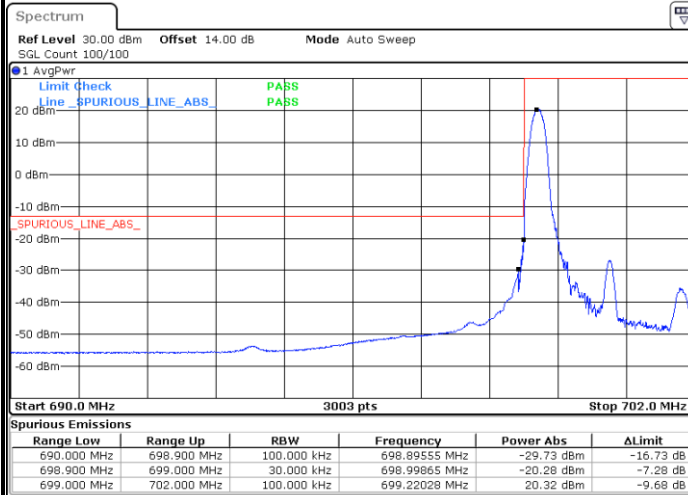


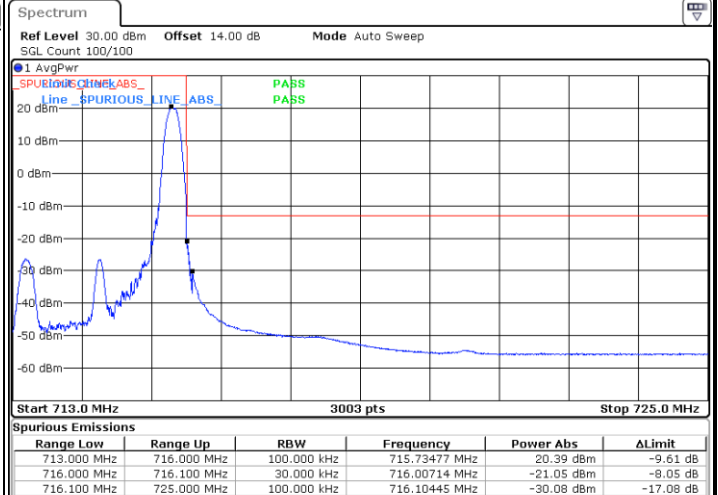


LTE Band 12 / 3MHz / QPSK

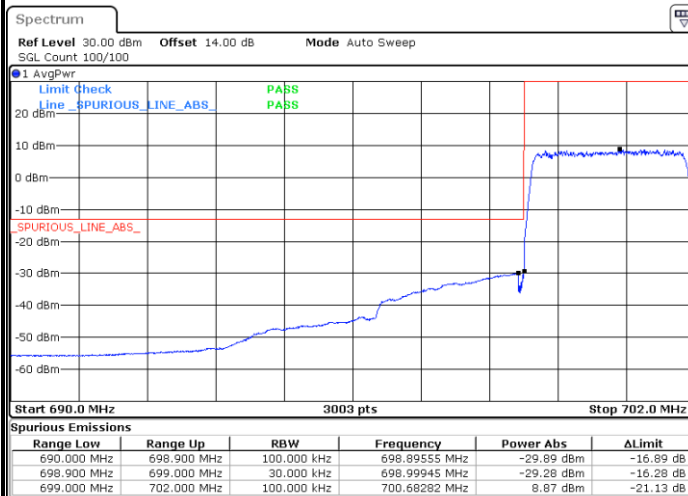
Lowest Band Edge / 1RB



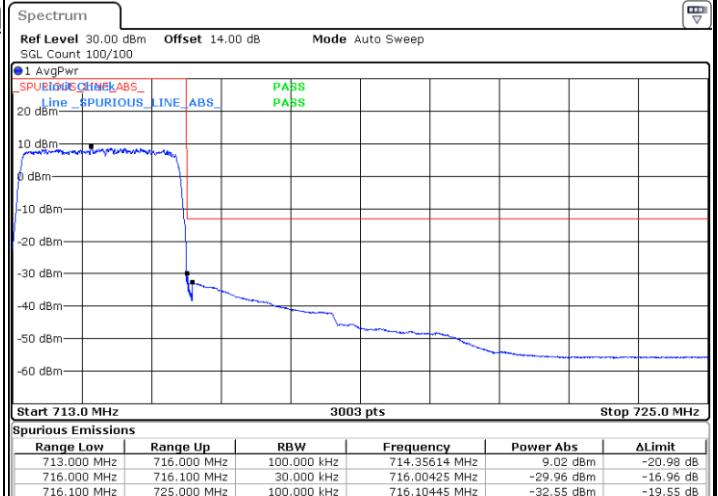
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



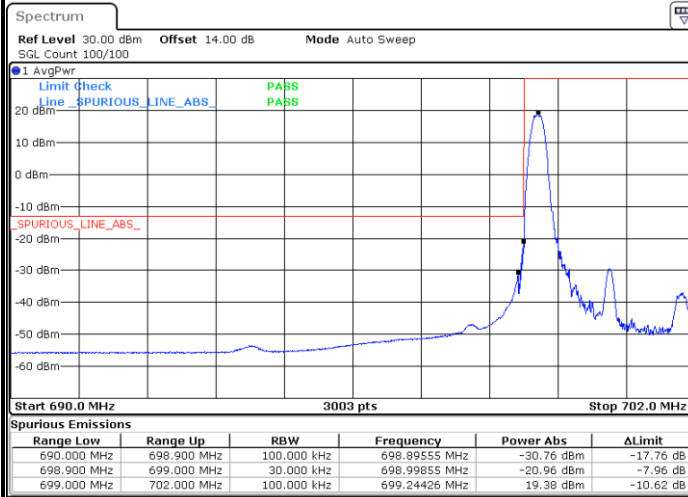
Highest Band Edge / Full RB



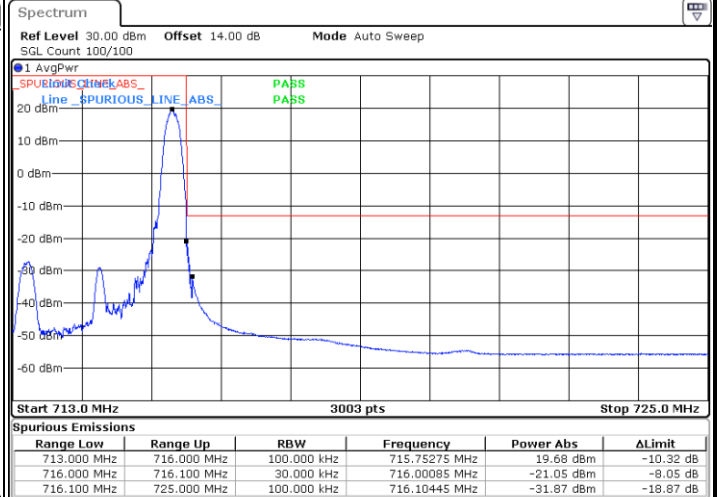


LTE Band 12 / 3MHz / 16QAM

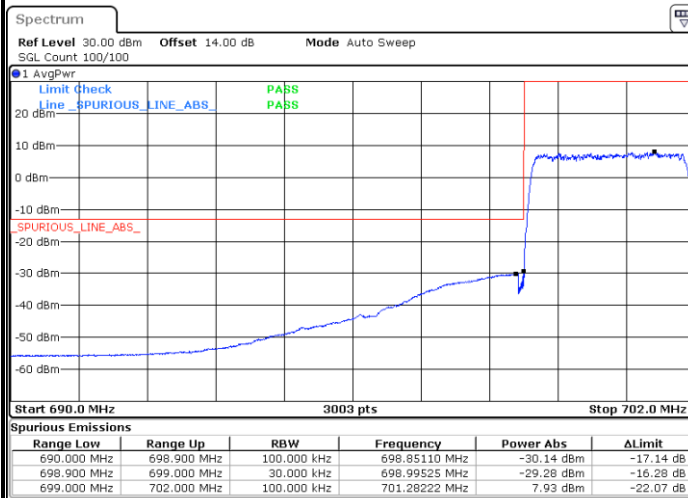
Lowest Band Edge / 1 RB



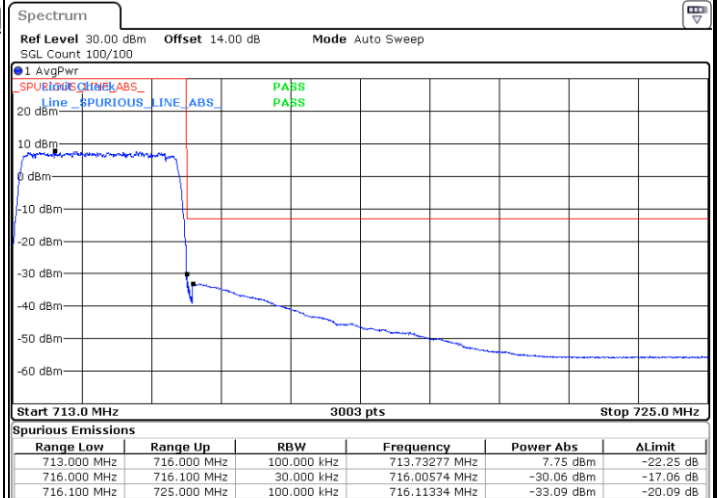
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



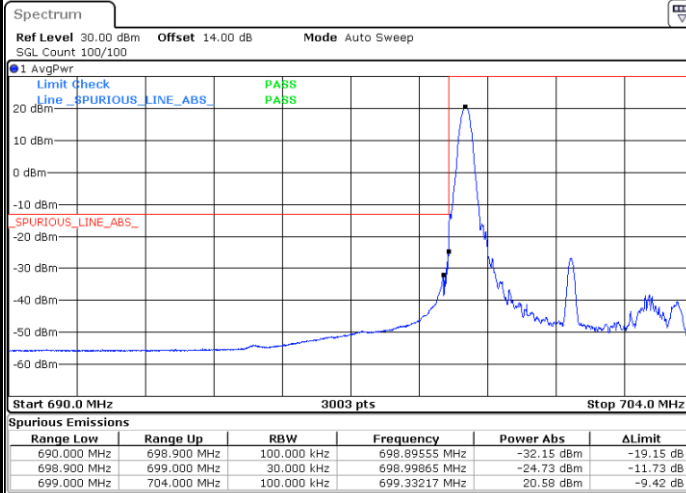
Highest Band Edge / Full RB



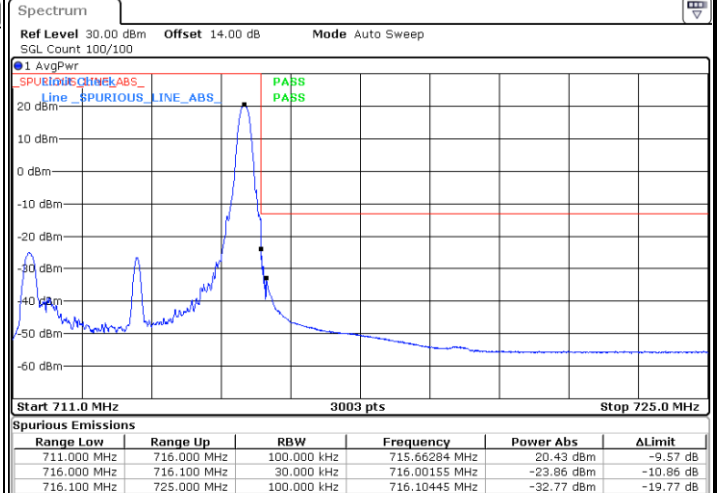


LTE Band 12 / 5MHz / QPSK

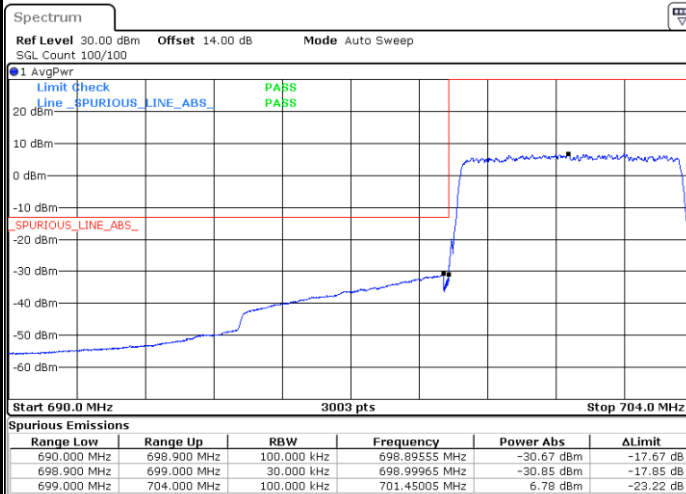
Lowest Band Edge / 1RB



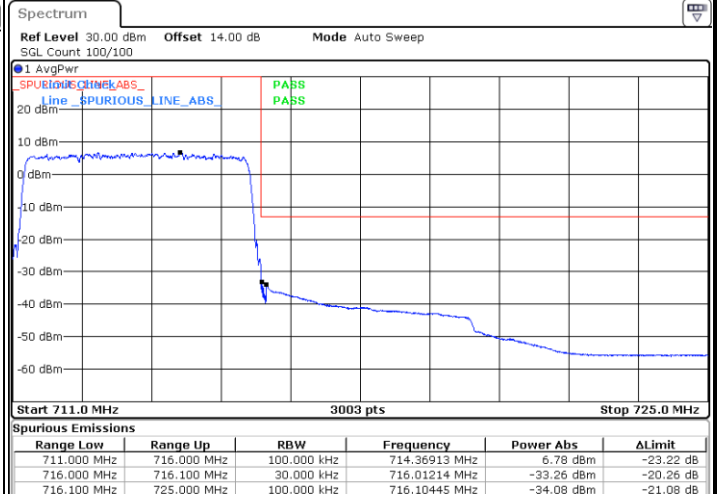
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



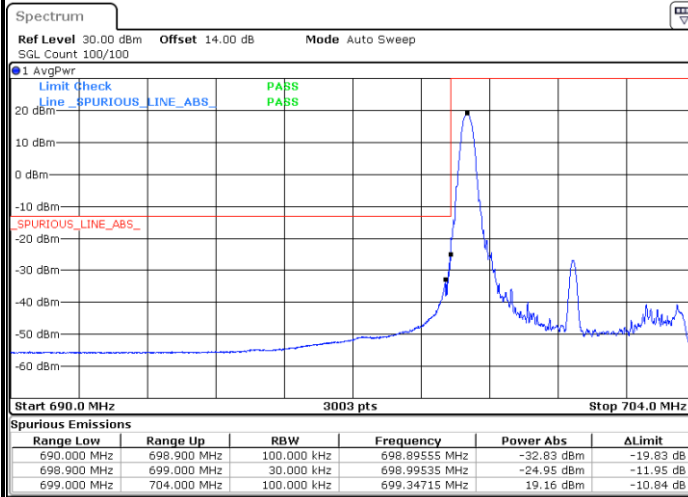
Highest Band Edge / Full RB



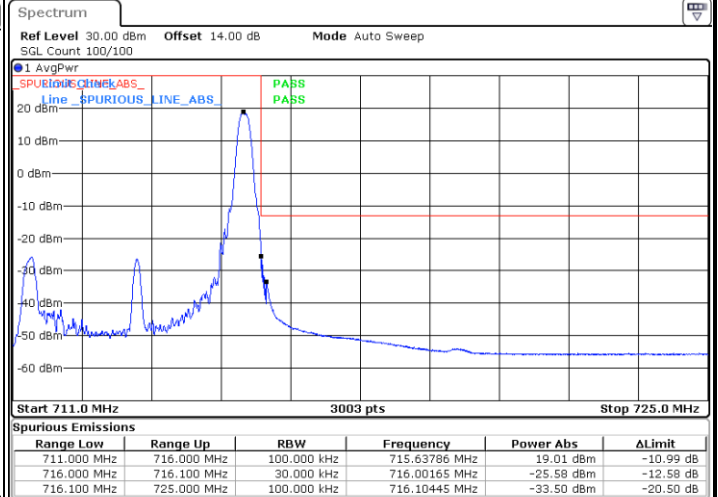


LTE Band 12 / 5MHz / 16QAM

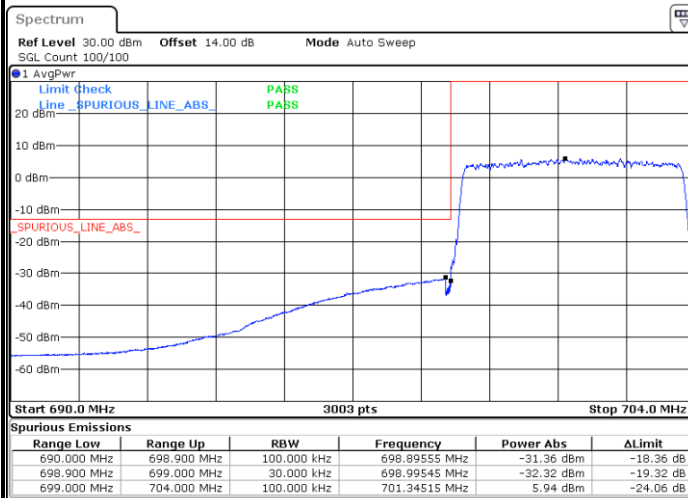
Lowest Band Edge / 1 RB



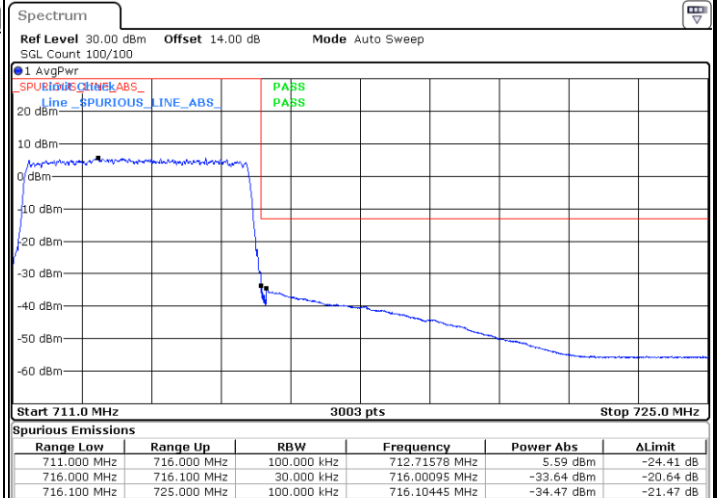
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



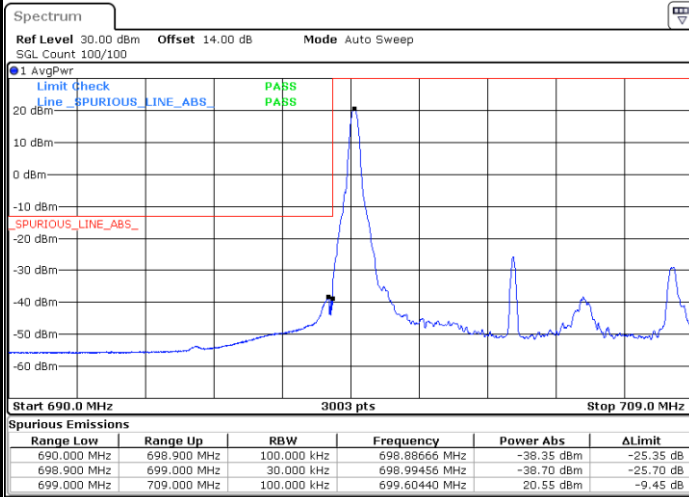
Highest Band Edge / Full RB



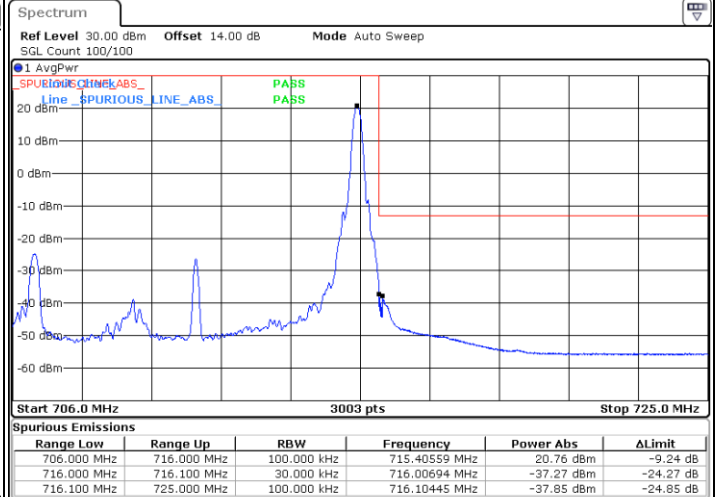


LTE Band 12 / 10MHz / QPSK

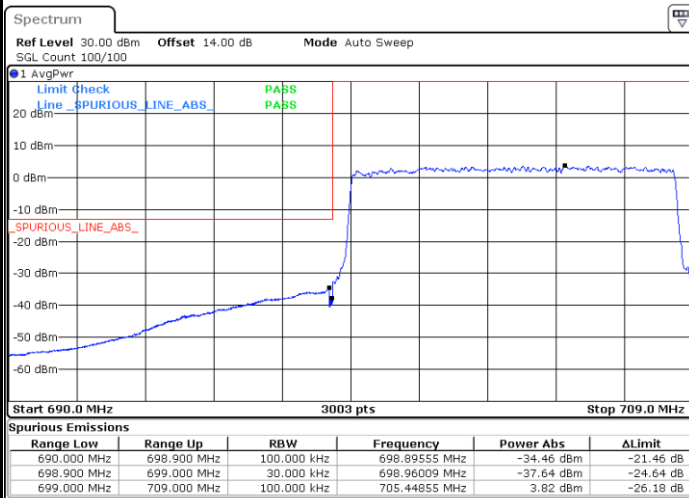
Lowest Band Edge / 1RB



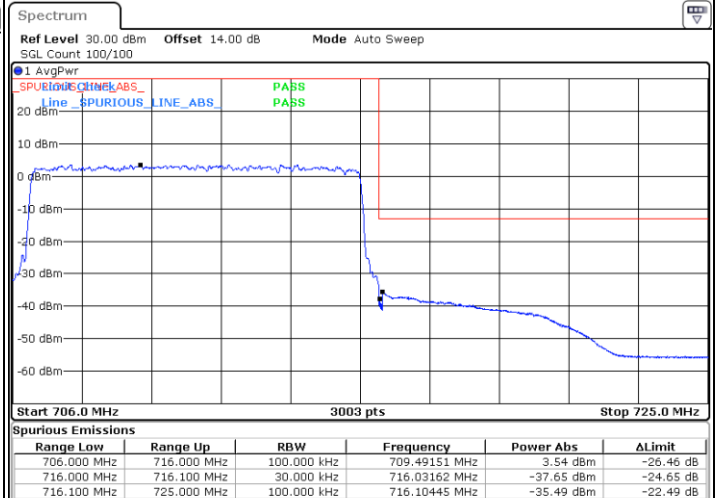
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



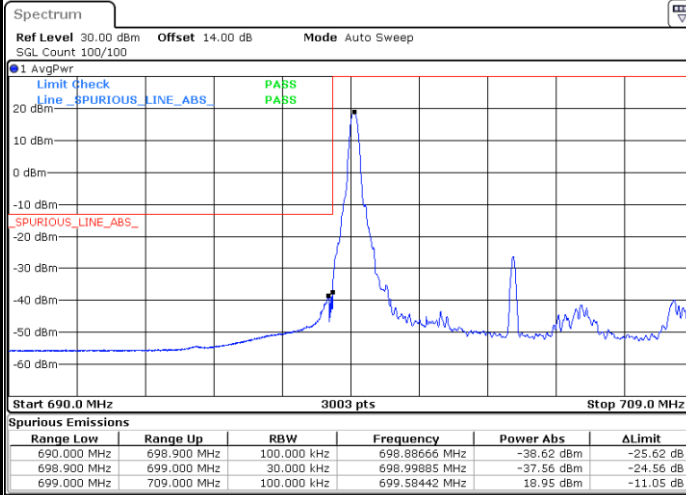
Highest Band Edge / Full RB



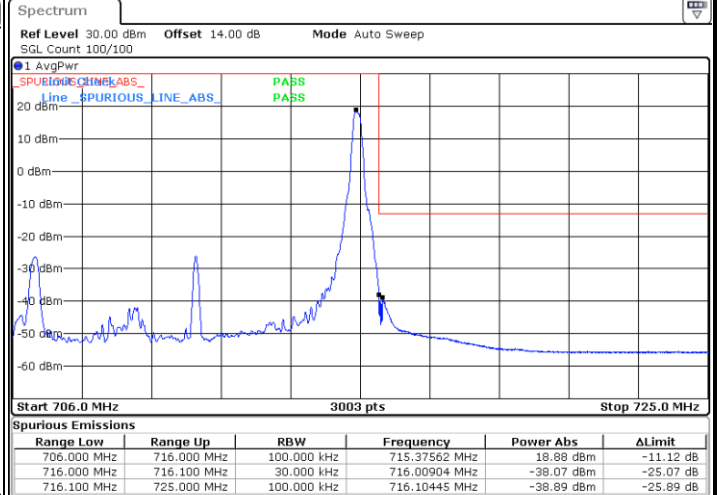


LTE Band 12 / 10MHz / 16QAM

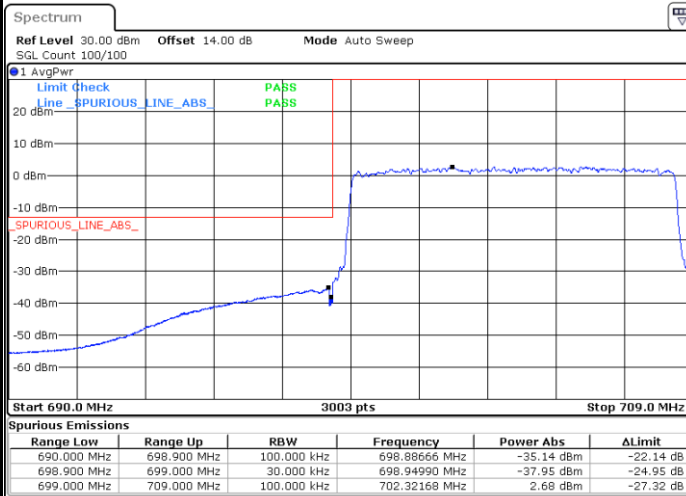
Lowest Band Edge / 1 RB



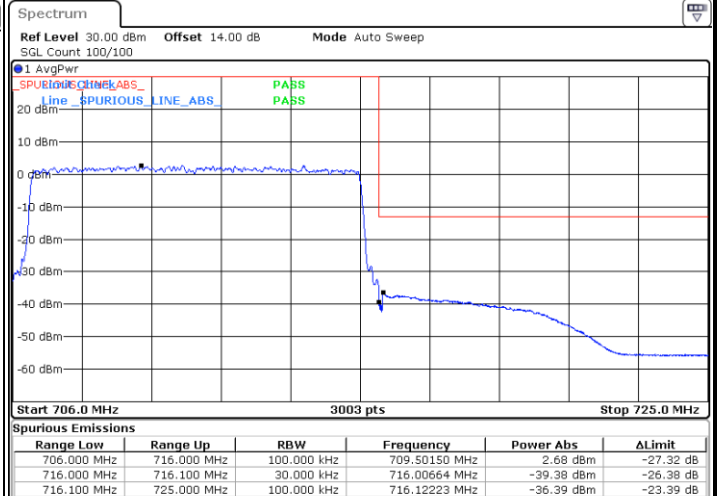
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

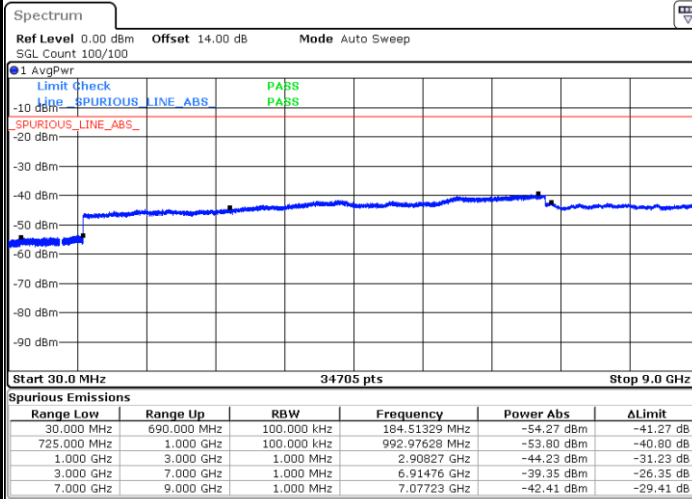




Conducted Spurious Emission

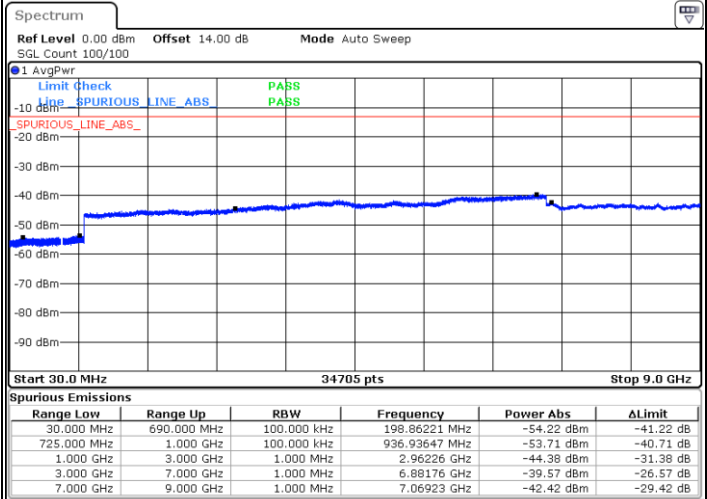
LTE Band 12 / 1.4MHz

Lowest Channel / QPSK



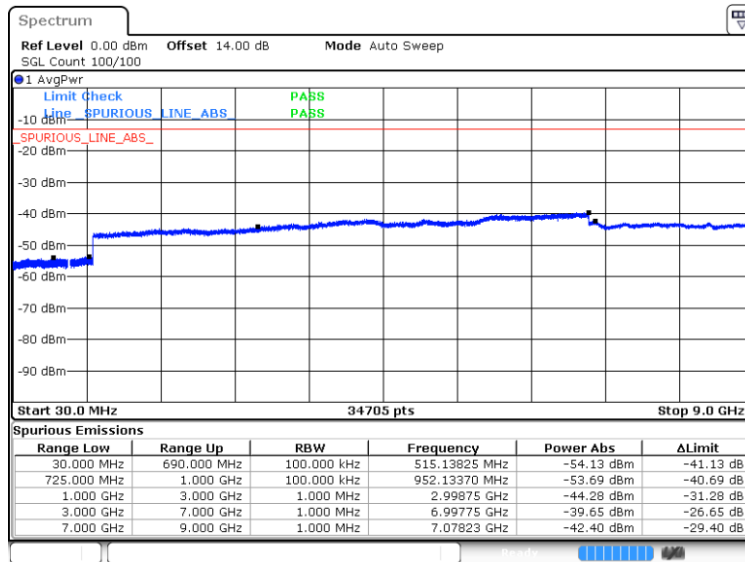
Date: 31.MAR.2025 19:47:43

Middle Channel / QPSK



Date: 31.MAR.2025 19:48:50

Highest Channel / QPSK

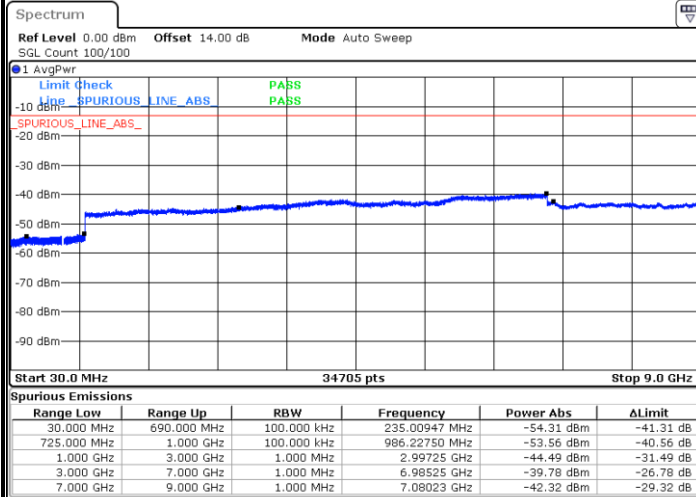


Date: 31.MAR.2025 19:49:57



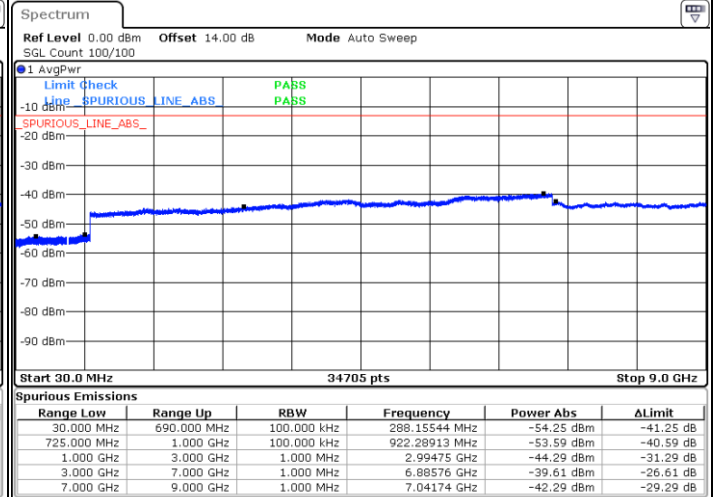
LTE Band 12 / 3MHz

Lowest Channel / QPSK



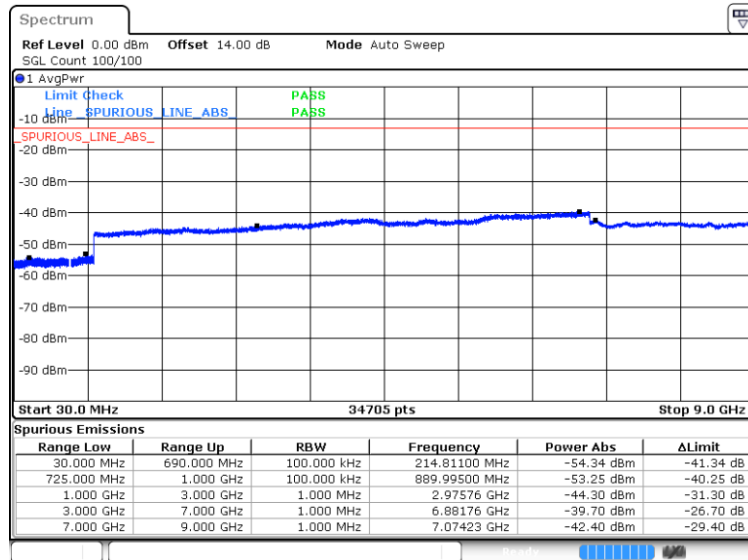
Date: 31.MAR.2025 19:51:40

Middle Channel / QPSK



Date: 31.MAR.2025 19:52:40

Highest Channel / QPSK

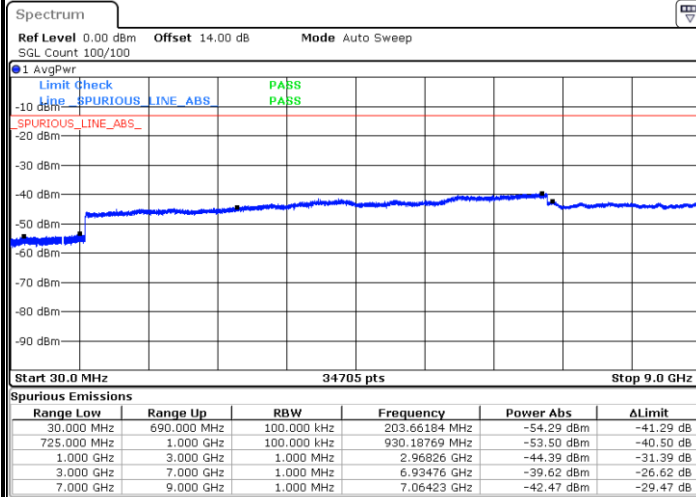


Date: 31.MAR.2025 19:53:40



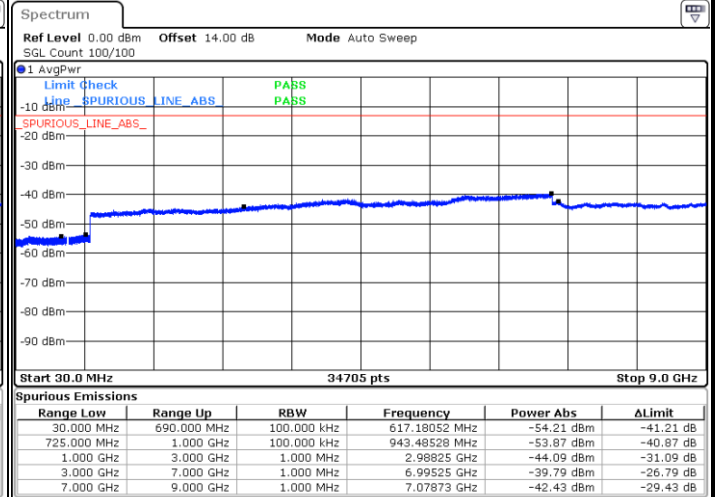
LTE Band 12 / 5MHz

Lowest Channel / QPSK



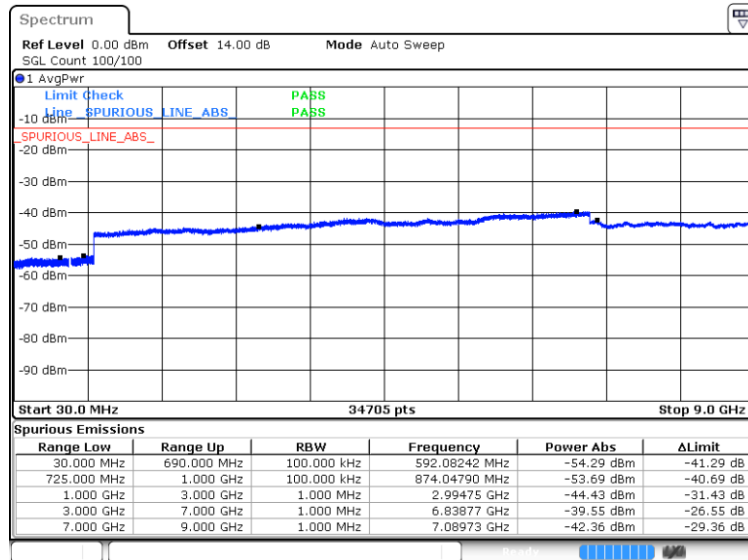
Date: 31.MAR.2025 19:55:18

Middle Channel / QPSK



Date: 31.MAR.2025 19:56:12

Highest Channel / QPSK

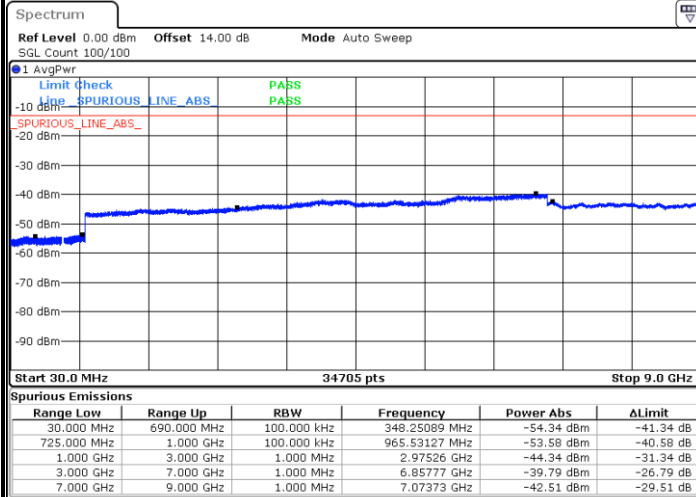


Date: 31.MAR.2025 16:34:24



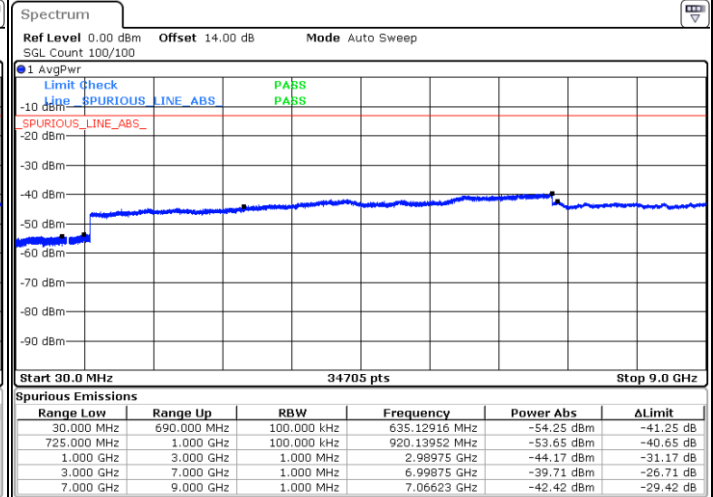
LTE Band 12 / 10MHz

Lowest Channel / QPSK



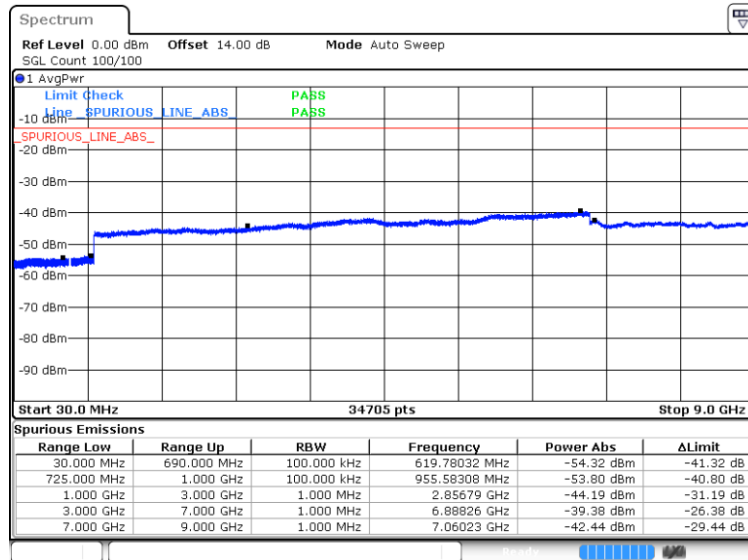
Date: 31.MAR.2025 16:36:01

Middle Channel / QPSK



Date: 31.MAR.2025 16:36:55

Highest Channel / QPSK



Date: 31.MAR.2025 16:37:49

Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 1.4MHz	Note 2.
		Frequency Offset (Δf) (Hz)	Result
50	Normal Voltage	3.7	PASS
40	Normal Voltage	3.1	
30	Normal Voltage	1.7	
20(Ref.)	Normal Voltage	2.1	
10	Normal Voltage	-2.8	
0	Normal Voltage	-1.9	
-10	Normal Voltage	2.3	
-20	Normal Voltage	1.3	
-30	Normal Voltage	2.5	
20	Maximum Voltage	2.4	
20	Normal Voltage	2.1	
20	Minimum Voltage	-1.3	

Note:

1. Normal Voltage = 12 V.; Minimum Voltage = 9 V.; Maximum Voltage = 43 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

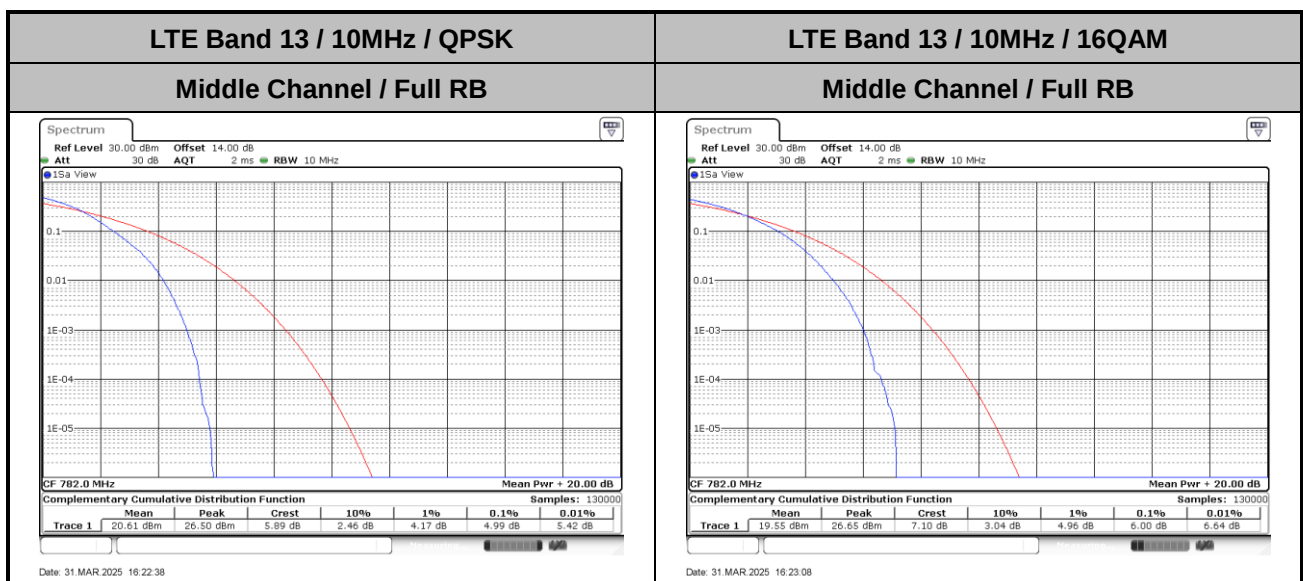
$$|MAX(\Delta f)| = 3.7\text{Hz}$$

Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L - MAX(\Delta f) $	699.151746	$\geq 699\text{ MHz}$	PASS
$f_H + MAX(\Delta f) $	715.853854	$\leq 716\text{ MHz}$	

LTE Band 13

Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.99	6.00	-	PASS





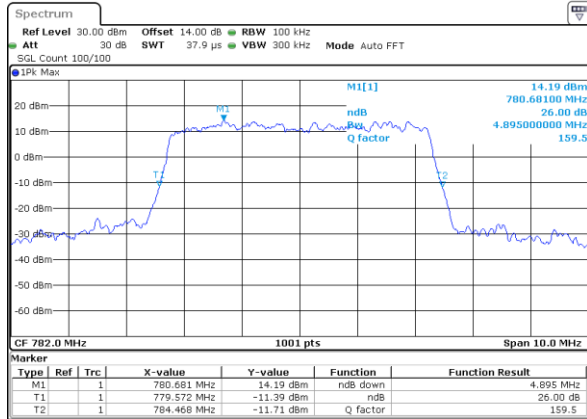
26dB Bandwidth

Mode	LTE Band 13 : 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	-	-	-	-	4.90	4.96	9.63	9.67	-	-	-	-

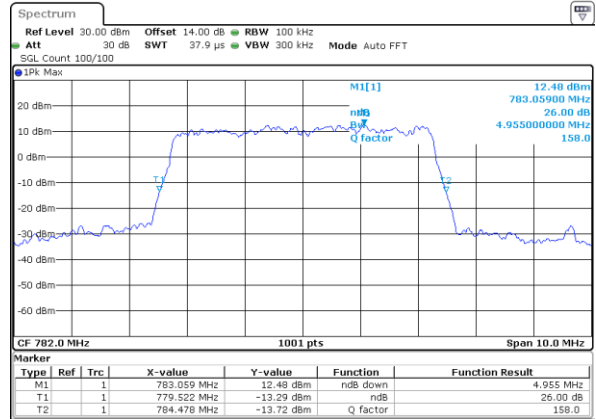


LTE Band 13

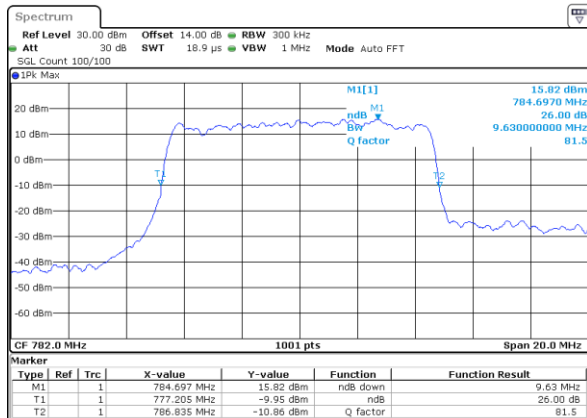
Middle Channel / 5MHz / QPSK



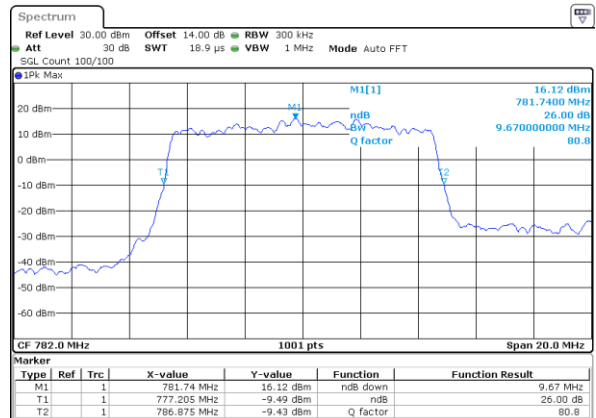
Middle Channel / 5MHz / 16QAM



Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM





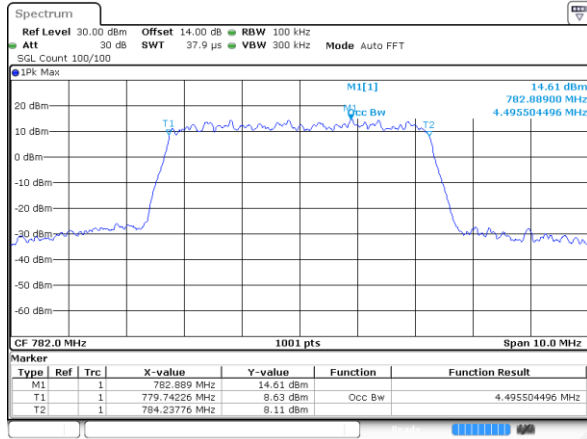
Occupied Bandwidth

Mode	LTE Band 13 : 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	-	-	-	-	4.50	4.49	8.99	8.93	-	-	-	-



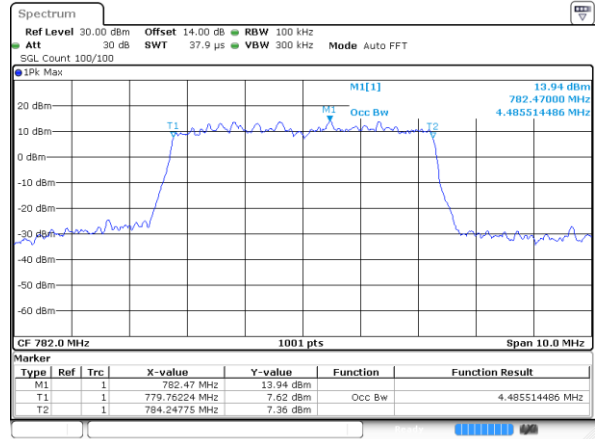
LTE Band 13

Middle Channel / 5MHz / QPSK



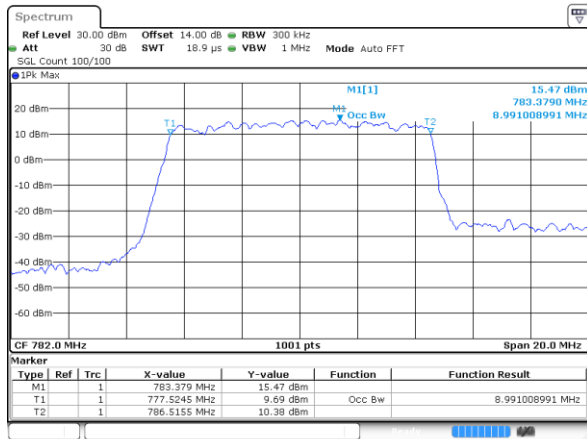
Date: 31 MAR 2025 16:08:23

Middle Channel / 5MHz / 16QAM



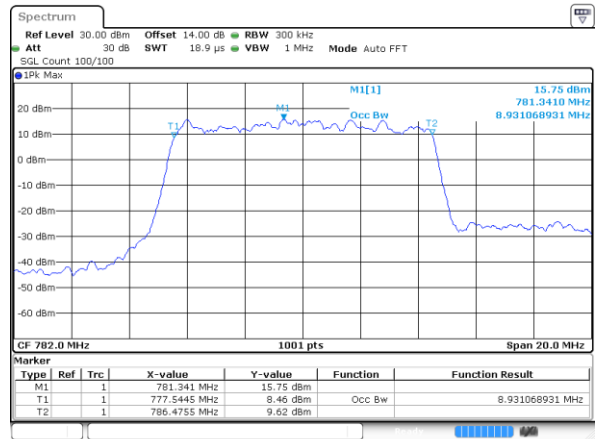
Date: 31 MAR 2025 16:09:05

Middle Channel / 10MHz / QPSK



Date: 31 MAR 2025 16:21:12

Middle Channel / 10MHz / 16QAM



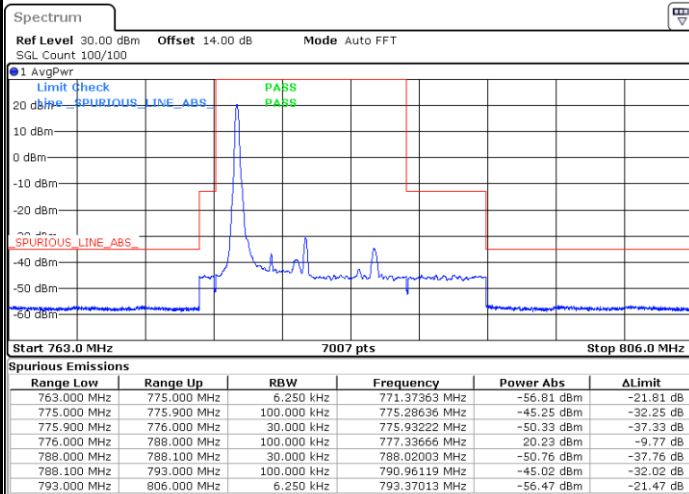
Date: 31 MAR 2025 16:21:55



Conducted Band Edge

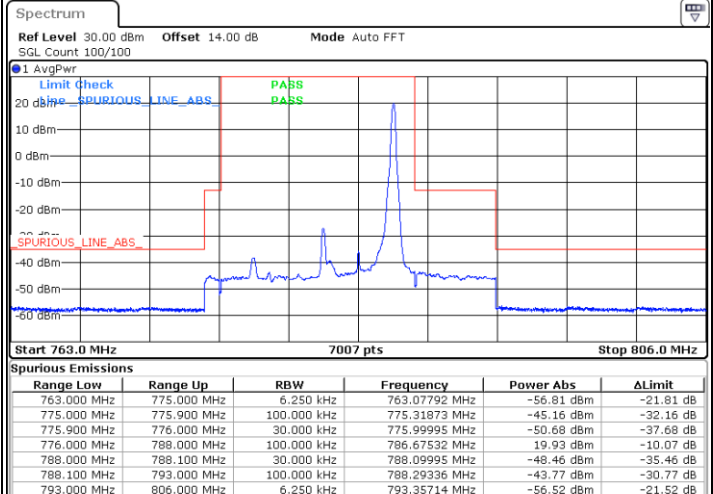
LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



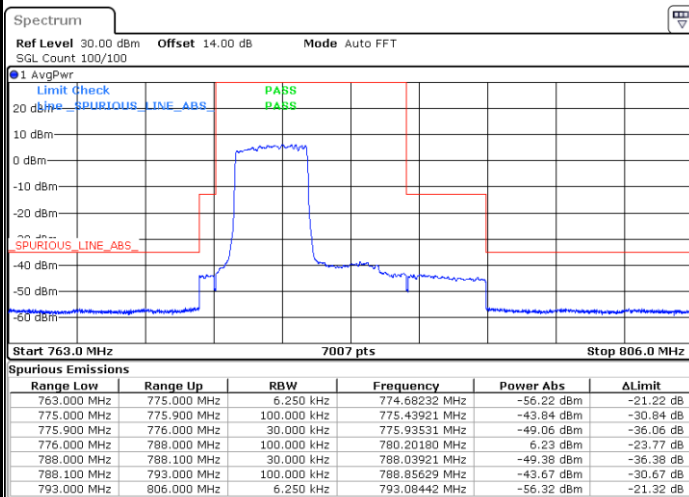
Date: 31.MAR.2025 16:04:02

Highest Band Edge / 1 RB



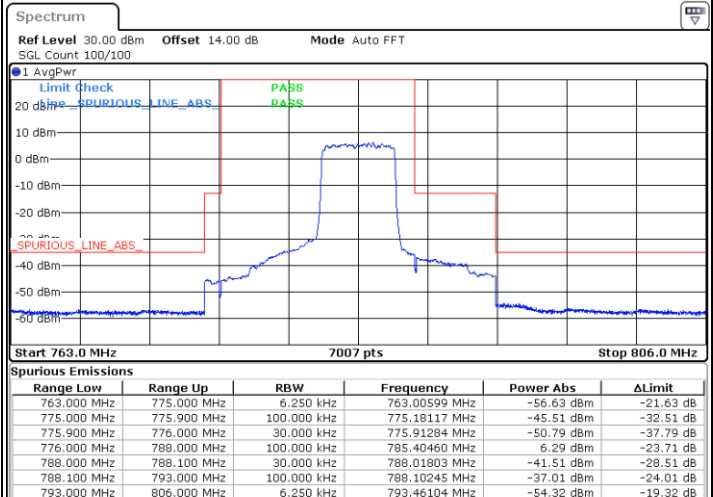
Date: 31.MAR.2025 16:10:04

Lowest Band Edge / Full RB



Date: 31.MAR.2025 16:06:22

Highest Band Edge / Full RB

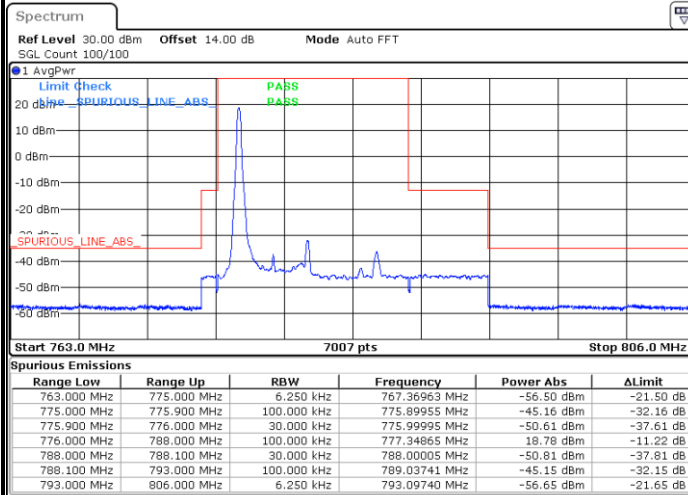


Date: 31.MAR.2025 16:12:21



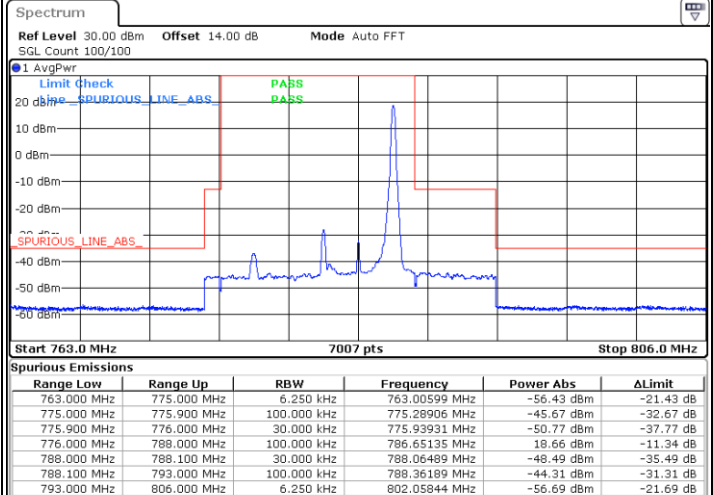
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



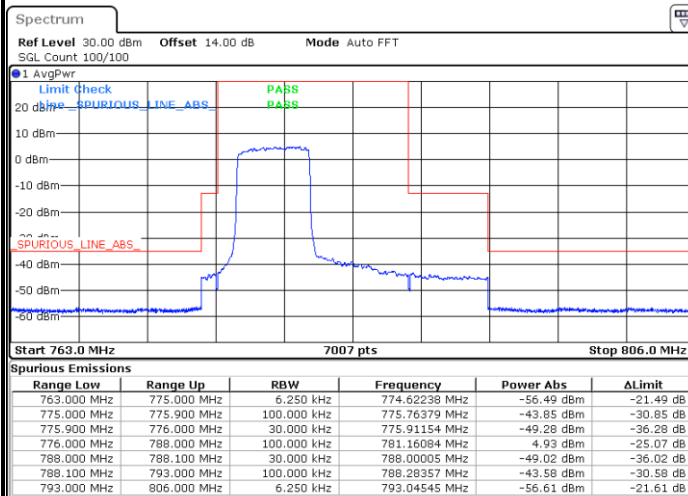
Date: 31 MAR 2025 16:04:48

Highest Band Edge / 1 RB



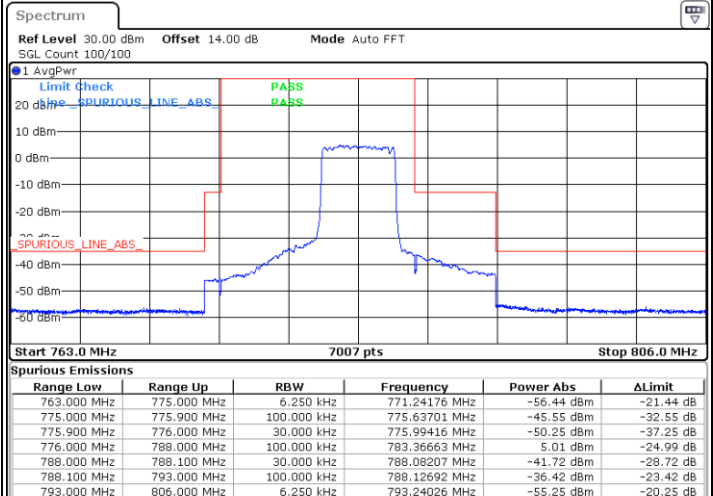
Date: 31 MAR 2025 16:10:50

Lowest Band Edge / Full RB



Date: 31 MAR 2025 16:07:08

Highest Band Edge / Full RB

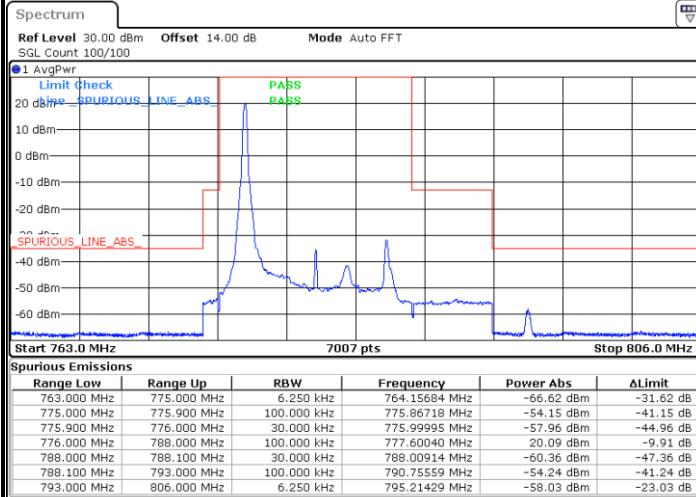


Date: 31 MAR 2025 16:13:07



LTE Band 13 / 10MHz / QPSK

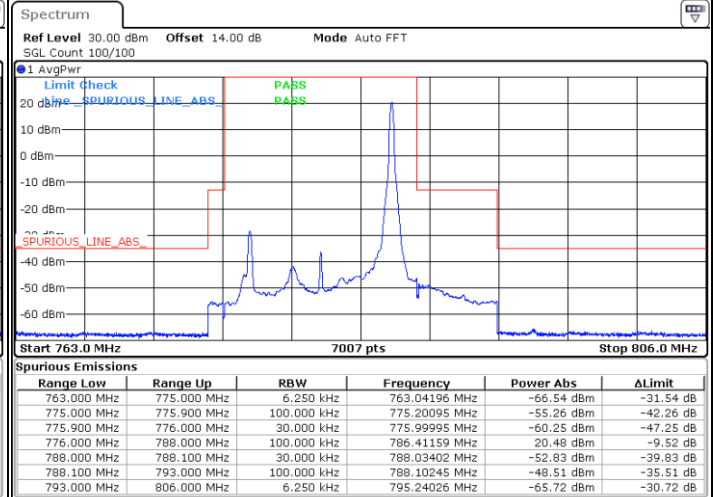
Middle Band Edge / 1 RB



Date: 31.MAR.2025 16:14:43

LTE Band 13 / 10MHz / QPSK

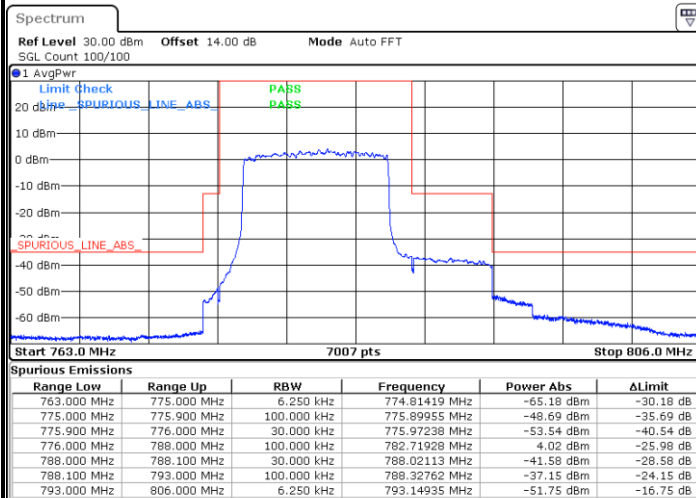
Middle Band Edge / 1 RB



Date: 31.MAR.2025 16:16:58

LTE Band 13 / 10MHz / QPSK

Middle Band Edge / Full RB



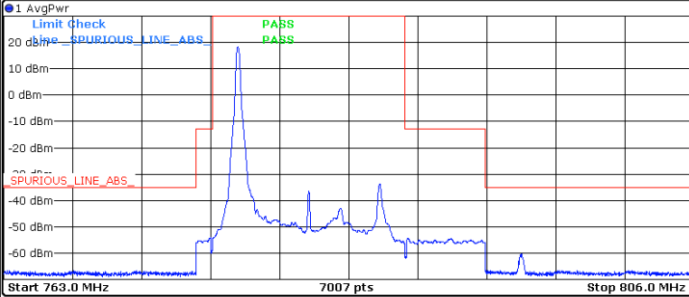
Date: 31.MAR.2025 16:19:13



LTE Band 13 / 10MHz / 16QAM

Middle Band Edge / 1 RB

Spectrum

Ref Level 30.00 dBm Offset 14.00 dB Mode Auto FFT
SGL Count 100/100

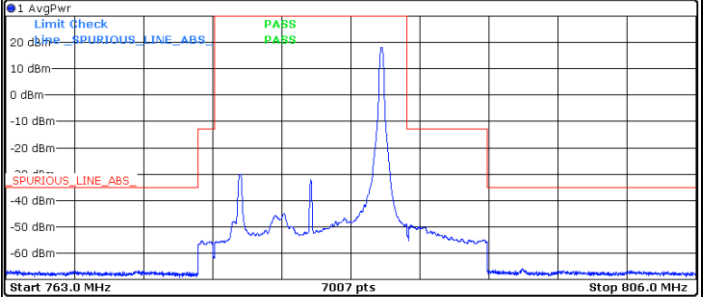
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	771.25375 MHz	-66.54 dBm	-31.54 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.89955 MHz	-54.10 dBm	-41.10 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99456 MHz	-58.87 dBm	-45.87 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.57642 MHz	-18.26 dBm	-11.74 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.01434 MHz	-61.32 dBm	-49.32 dB
788.100 MHz	793.000 MHz	100.000 kHz	790.85839 MHz	-54.51 dBm	-41.51 dB
793.000 MHz	806.000 MHz	6.250 kHz	795.26623 MHz	-60.24 dBm	-25.24 dB

Date: 31.MAR.2025 16:15:28

LTE Band 13 / 10MHz / 16QAM

Middle Band Edge / 1 RB

Spectrum

Ref Level 30.00 dBm Offset 14.00 dB Mode Auto FFT
SGL Count 100/100

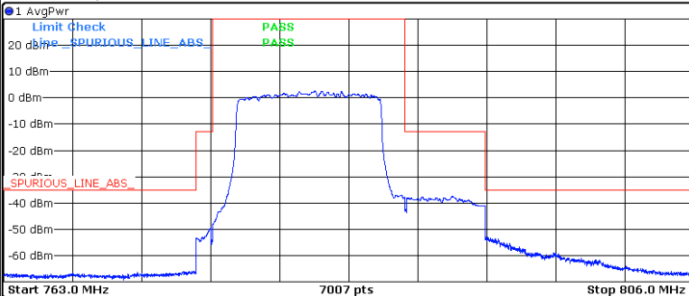
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	763.10190 MHz	-66.60 dBm	-31.60 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.23062 MHz	-55.46 dBm	-42.46 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.90025 MHz	-60.70 dBm	-47.70 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.42358 MHz	-18.07 dBm	-11.93 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.00744 MHz	-53.39 dBm	-40.39 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.23951 MHz	-49.50 dBm	-36.50 dB
793.000 MHz	806.000 MHz	6.250 kHz	795.16234 MHz	-65.92 dBm	-30.92 dB

Date: 31.MAR.2025 16:17:43

LTE Band 13 / 10MHz / 16QAM

Middle Band Edge / Full RB

Spectrum

Ref Level 30.00 dBm Offset 14.00 dB Mode Auto FFT
SGL Count 100/100

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.99401 MHz	-65.72 dBm	-30.72 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.89955 MHz	-49.53 dBm	-36.53 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.97238 MHz	-53.91 dBm	-40.91 dB
776.000 MHz	788.000 MHz	100.000 kHz	782.39560 MHz	2.60 dBm	-27.40 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.04510 MHz	-42.51 dBm	-29.51 dB
788.100 MHz	793.000 MHz	100.000 kHz	790.93671 MHz	-37.43 dBm	-24.43 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.08442 MHz	-52.92 dBm	-17.92 dB

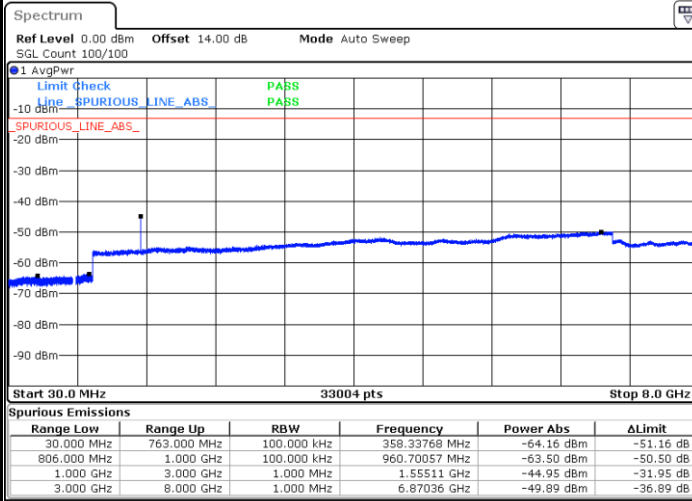
Date: 31.MAR.2025 16:19:58



Conducted Spurious Emission

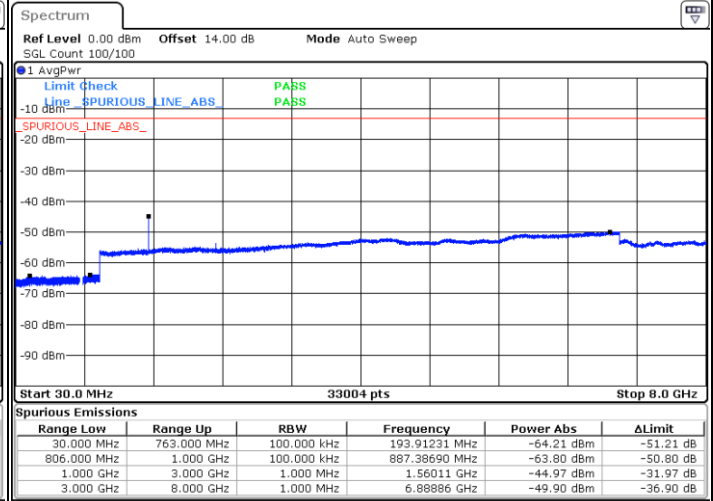
LTE Band 13 / 5MHz

Lowest Channel / QPSK



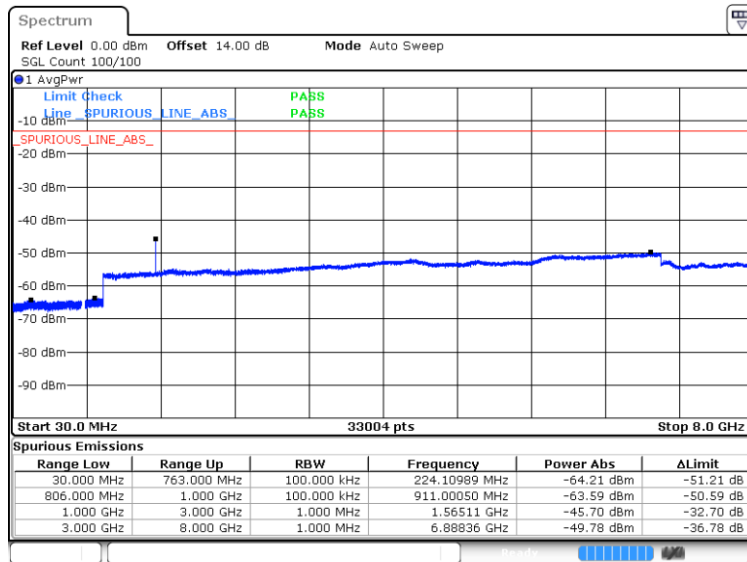
Date: 31.MAR.2025 16:39:27

Middle Channel / QPSK



Date: 31.MAR.2025 16:40:21

Highest Channel / QPSK

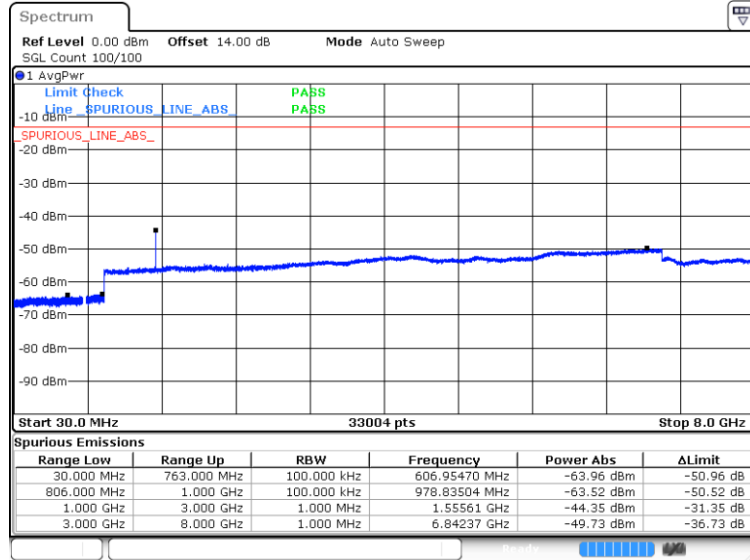


Date: 31.MAR.2025 16:41:16



LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 31.MAR.2025 16:43:40

Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 5MHz	Note 2.
		Frequency Offset (Δf) (Hz)	Result
50	Normal Voltage	2.4	PASS
40	Normal Voltage	2.5	
30	Normal Voltage	-1.7	
20(Ref.)	Normal Voltage	1.5	
10	Normal Voltage	2.6	
0	Normal Voltage	1.9	
-10	Normal Voltage	1.4	
-20	Normal Voltage	2	
-30	Normal Voltage	1.8	
20	Maximum Voltage	1.6	
20	Normal Voltage	1.5	
20	Minimum Voltage	2.3	

Note:

1. Normal Voltage =12 V.; Minimum Voltage =9 V.; Maximum Voltage =43 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

$$|MAX(\Delta f)| = 2.6\text{Hz}$$

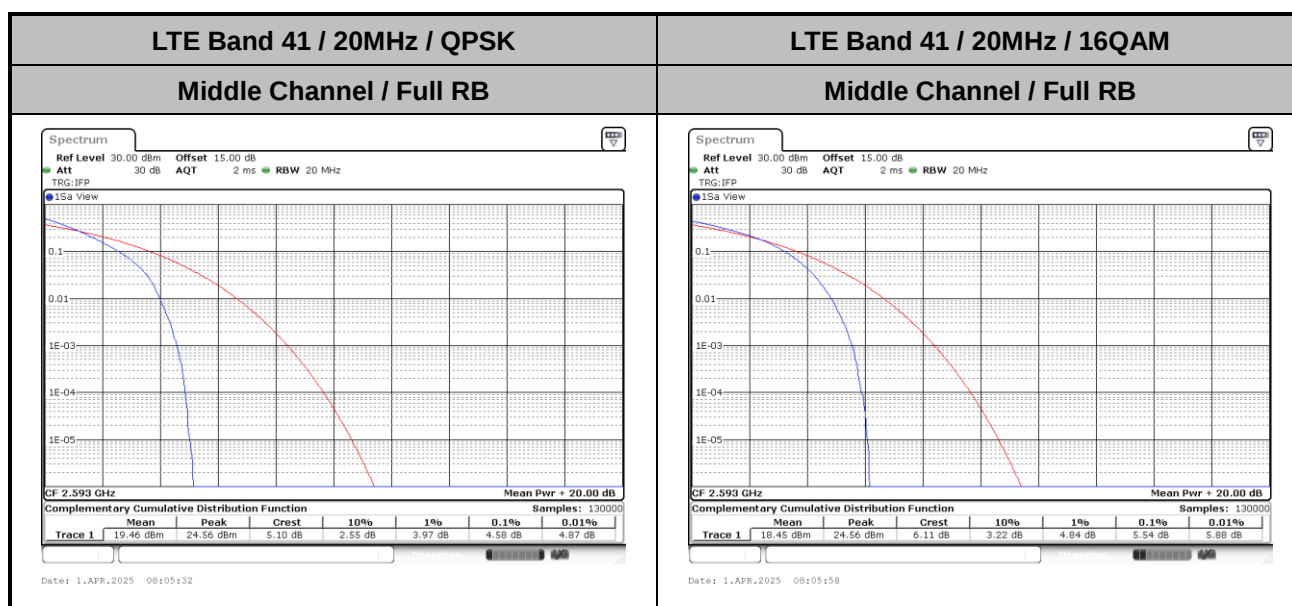
Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L - MAX(\Delta f) $	777.262237	$\geq 777\text{ MHz}$	PASS
$f_H + MAX(\Delta f) $	786.737763	$\leq 787\text{ MHz}$	



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	4.58	5.54	-	PASS





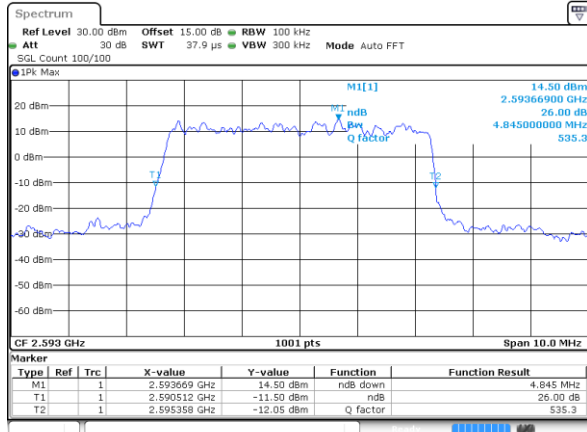
26dB Bandwidth

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	5.00	9.73	9.87	14.09	14.30	19.02	18.98

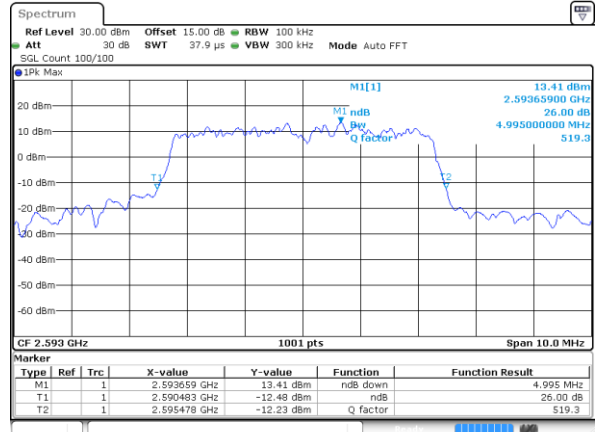


LTE Band 41

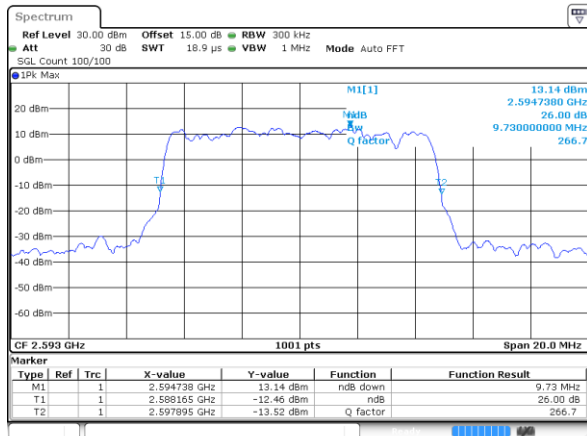
Middle Channel / 5MHz / QPSK



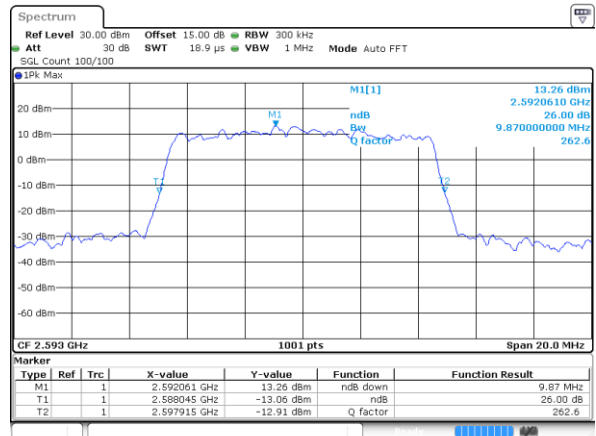
Middle Channel / 5MHz / 16QAM



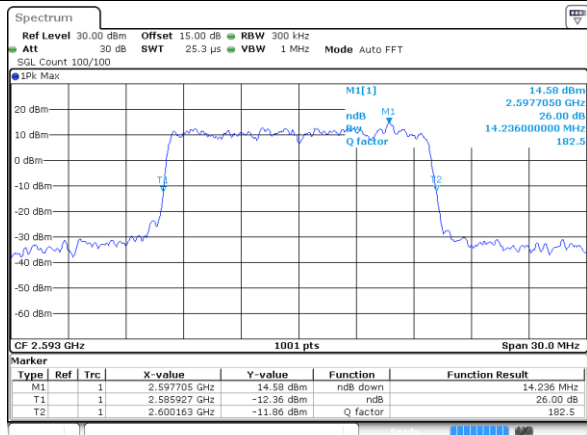
Middle Channel / 10MHz / QPSK



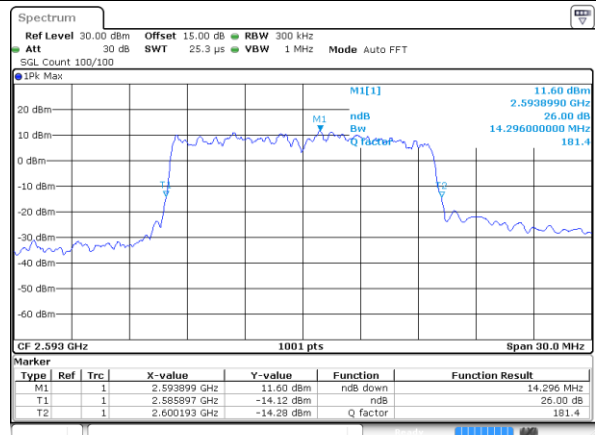
Middle Channel / 10MHz / 16QAM



Middle Channel / 15MHz / QPSK



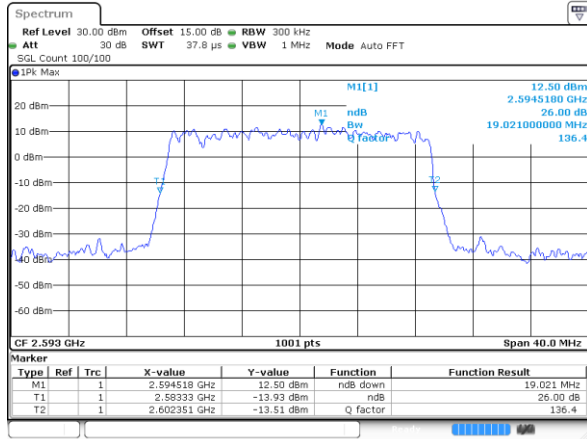
Middle Channel / 15MHz / 16QAM





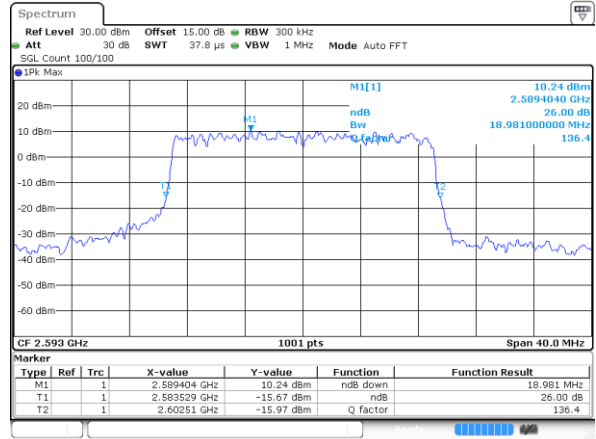
LTE Band 41

Middle Channel / 20MHz / QPSK



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Middle Channel / 20MHz / 16QAM



Date: 31 MAR 2025 15:06:54



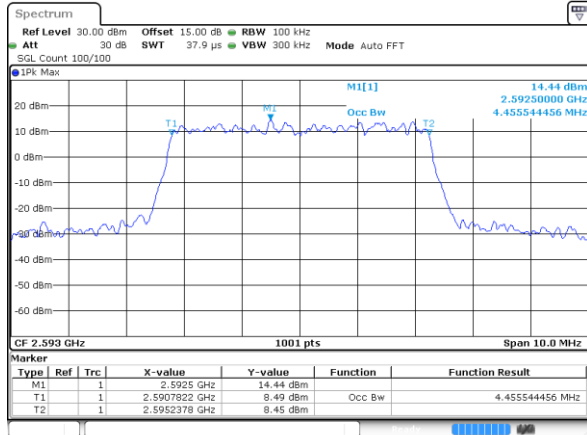
Occupied Bandwidth

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	-	-	-	-	4.46	4.47	9.05	9.03	13.34	13.46	17.82	17.78

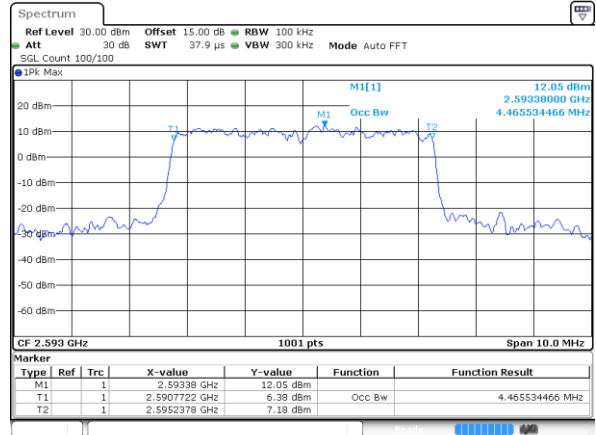


LTE Band 41

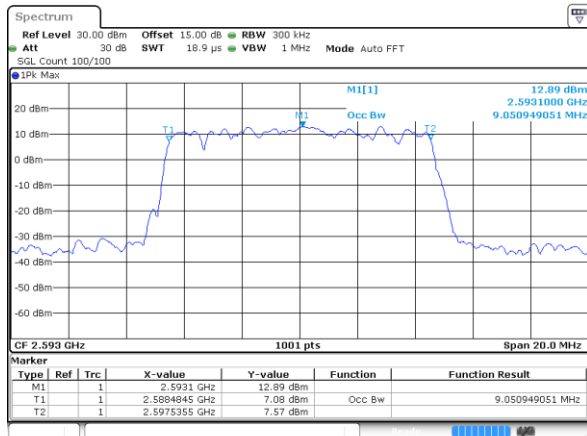
Middle Channel / 5MHz / QPSK



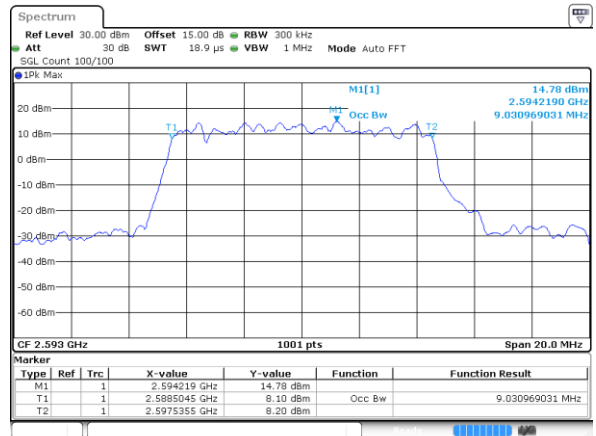
Middle Channel / 5MHz / 16QAM



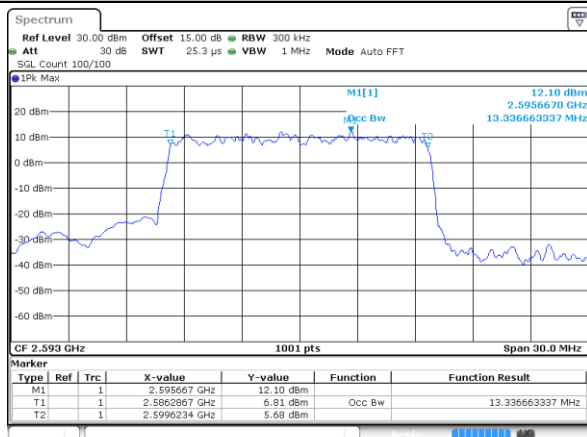
Middle Channel / 10MHz / QPSK



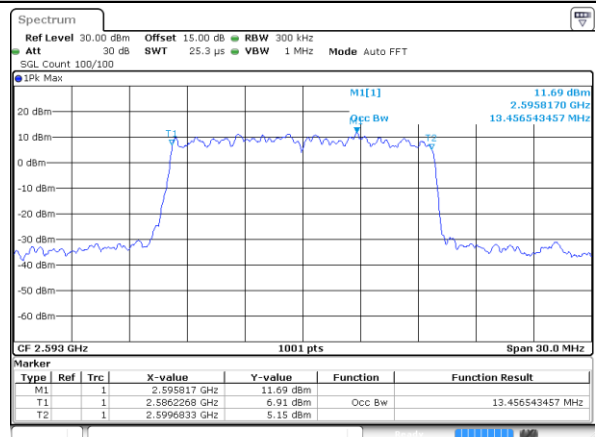
Middle Channel / 10MHz / 16QAM



Middle Channel / 15MHz / QPSK



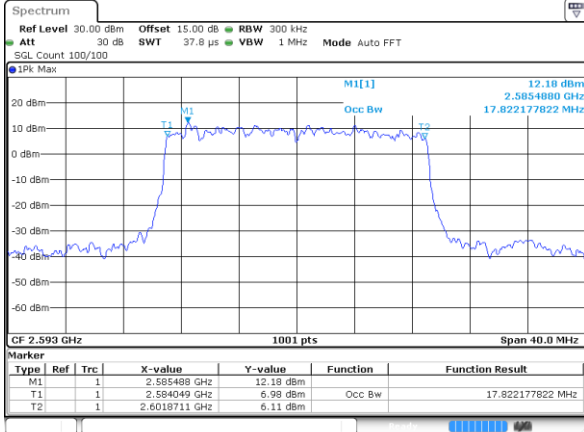
Middle Channel / 15MHz / 16QAM



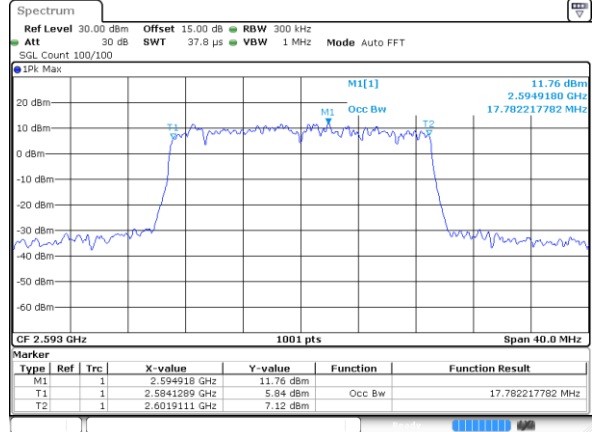


LTE Band 41

Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM

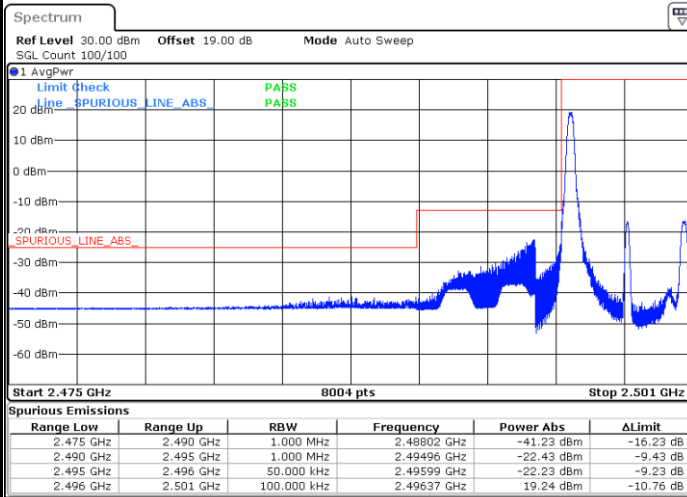




Conducted Band Edge

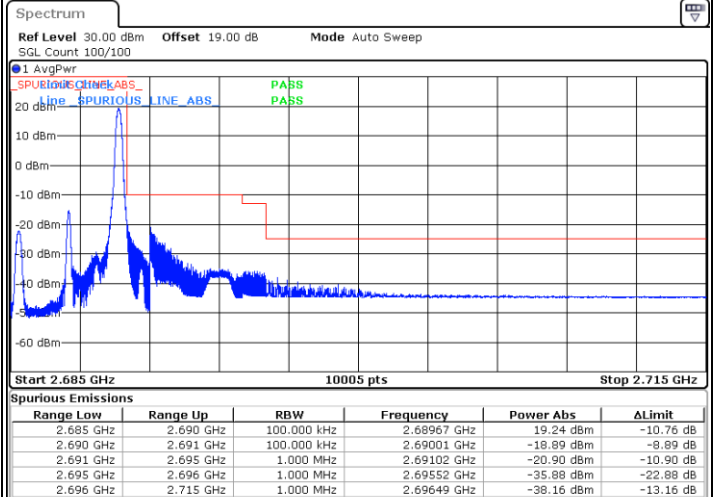
LTE Band 41 / 5MHz / QPSK

Lowest Band Edge / 1 RB



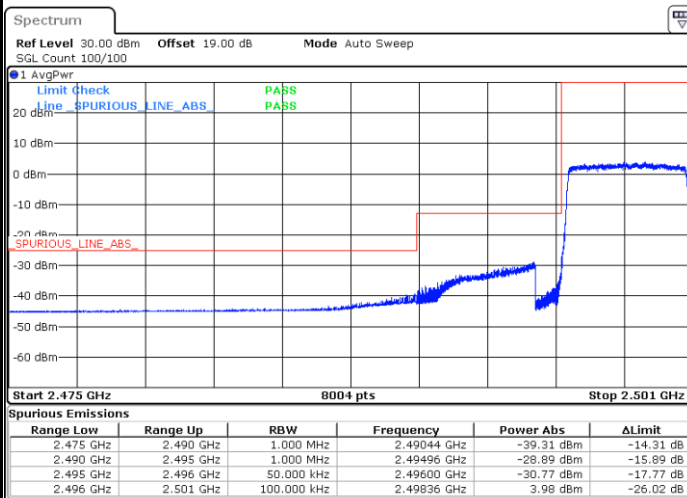
Date: 31 MAR 2025 14:37:33

Highest Band Edge / 1 RB



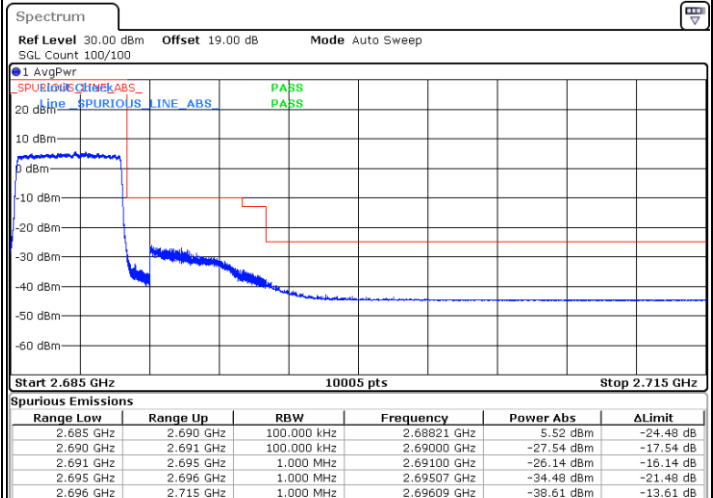
Date: 27 MAR 2025 17:33:29

Lowest Band Edge / Full RB



Date: 31 MAR 2025 14:42:58

Highest Band Edge / Full RB

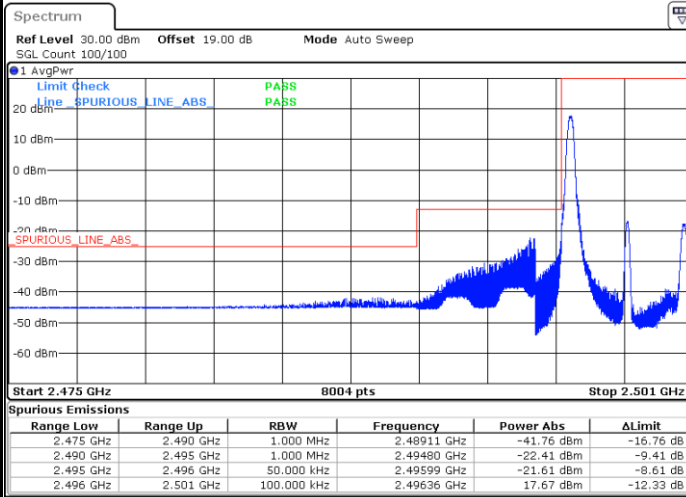


Date: 27 MAR 2025 17:39:20



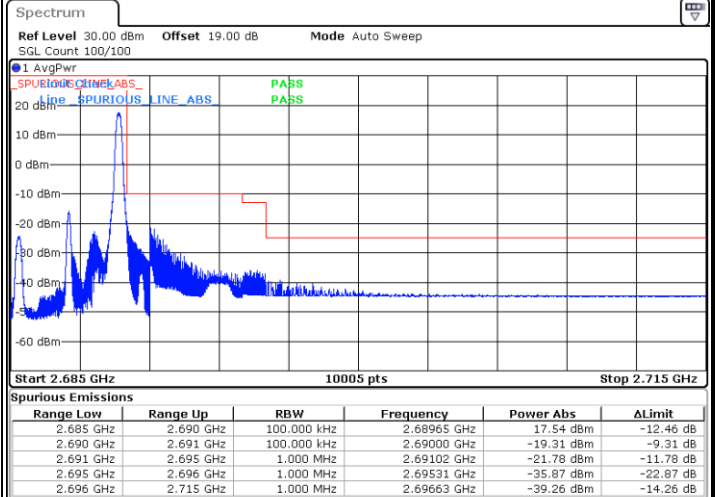
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



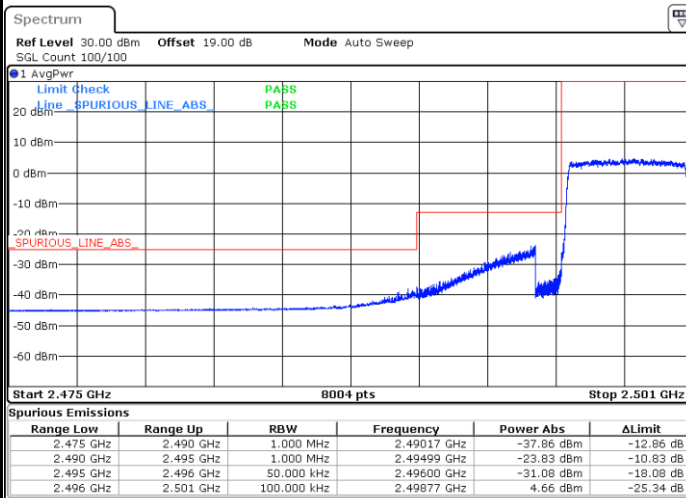
Date: 31 MAR 2025 14:38:51

Highest Band Edge / 1 RB



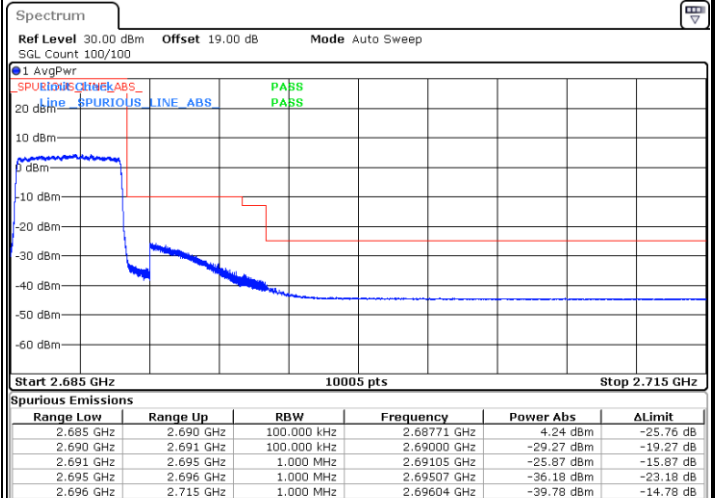
Date: 27 MAR 2025 17:34:39

Lowest Band Edge / Full RB



Date: 31 MAR 2025 14:41:59

Highest Band Edge / Full RB

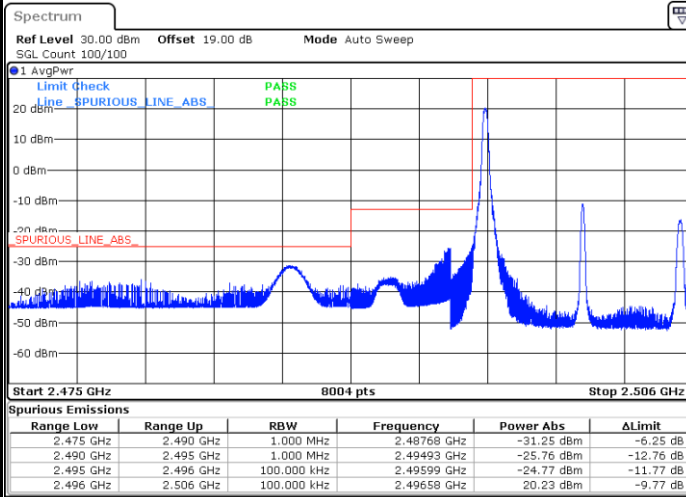


Date: 27 MAR 2025 17:38:10



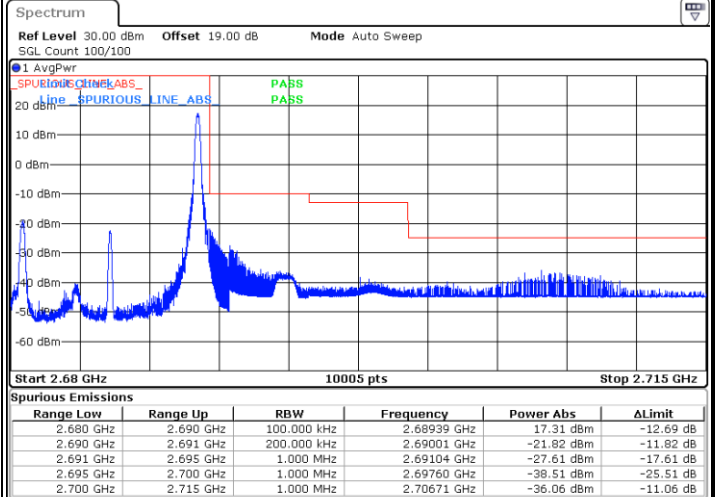
LTE Band 41 / 10MHz / QPSK

Lowest Band Edge / 1 RB



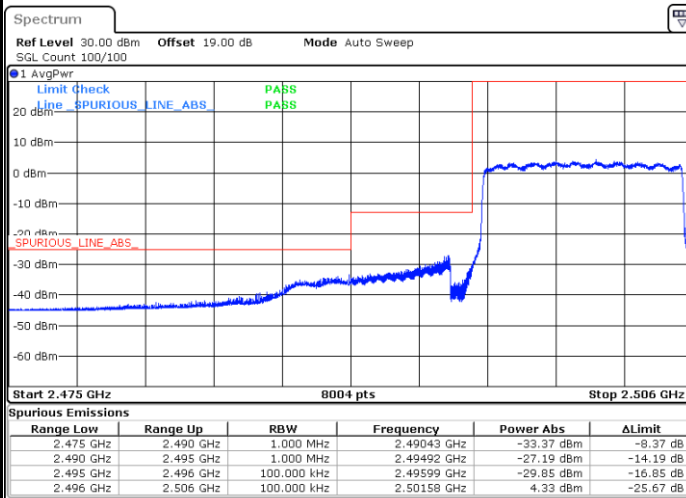
Date: 27 MAR 2025 17:46:08

Highest Band Edge / 1 RB



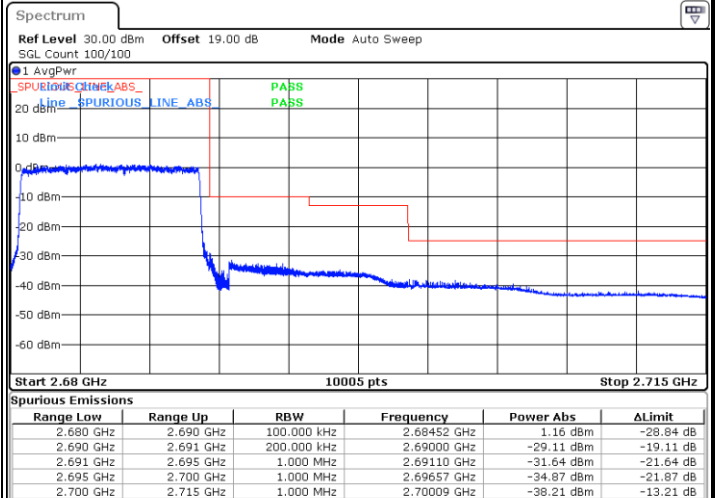
Date: 31 MAR 2025 14:26:10

Lowest Band Edge / Full RB



Date: 1 APR 2025 13:45:53

Highest Band Edge / Full RB

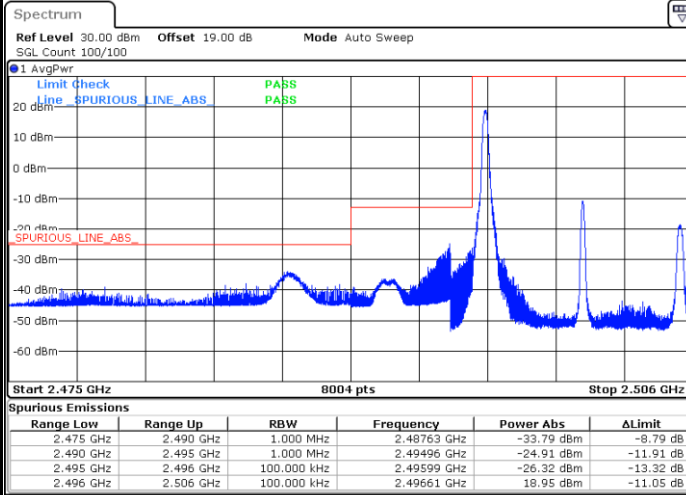


Date: 31 MAR 2025 14:29:54



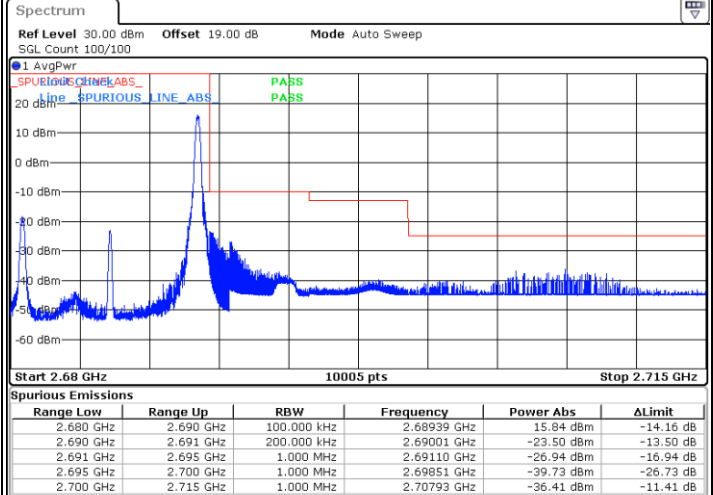
LTE Band 41 / 10MHz / 16QAM

Lowest Band Edge / 1RB



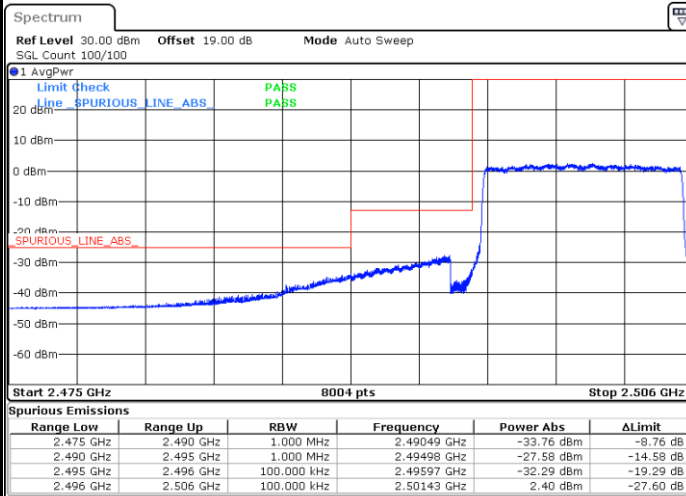
Date: 27 MAR 2025 17:47:18

Highest Band Edge / 1 RB



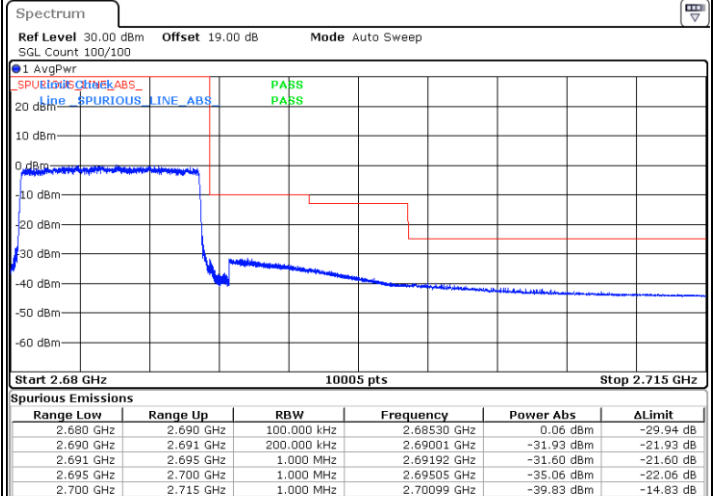
Date: 31 MAR 2025 14:26:54

Lowest Band Edge / Full RB



Date: 1 APR 2025 13:44:59

Highest Band Edge / Full RB

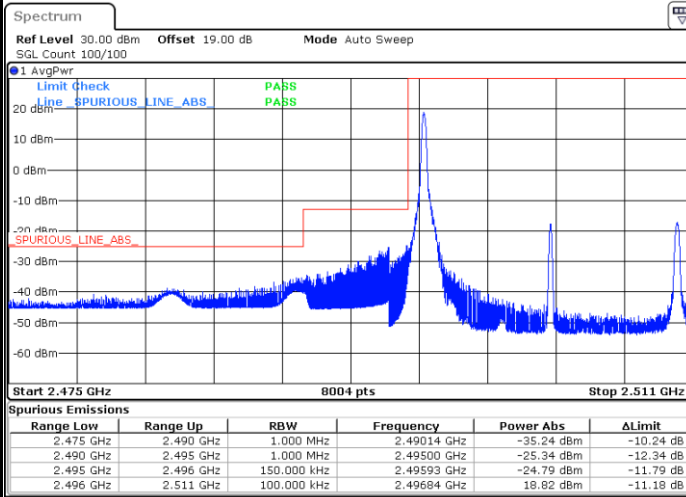


Date: 31 MAR 2025 14:29:10



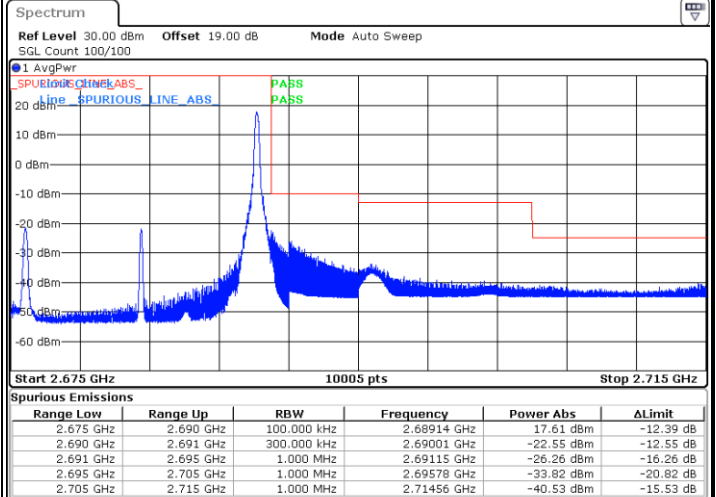
LTE Band 41 / 15MHz / QPSK

Lowest Band Edge / 1 RB



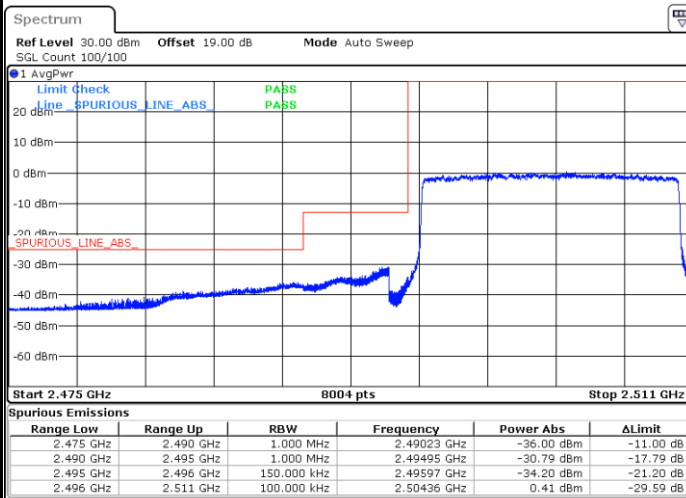
Date: 31.MAR.2025 14:31:58

Highest Band Edge / 1 RB



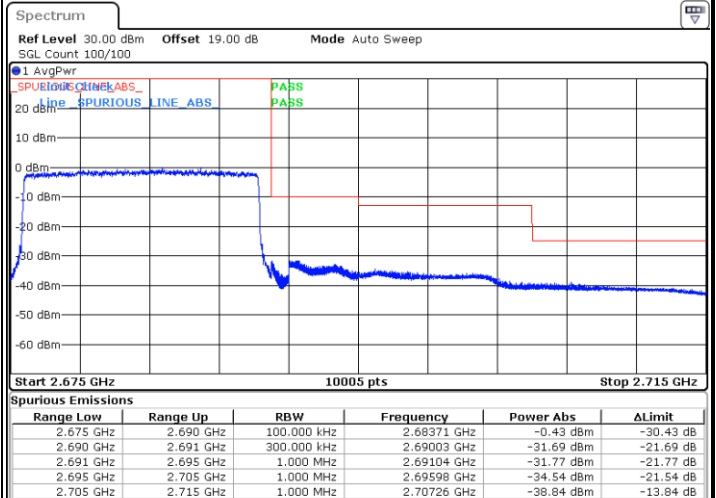
Date: 31.MAR.2025 17:05:14

Lowest Band Edge / Full RB



Date: 31.MAR.2025 14:47:16

Highest Band Edge / Full RB



Date: 31.MAR.2025 17:09:51