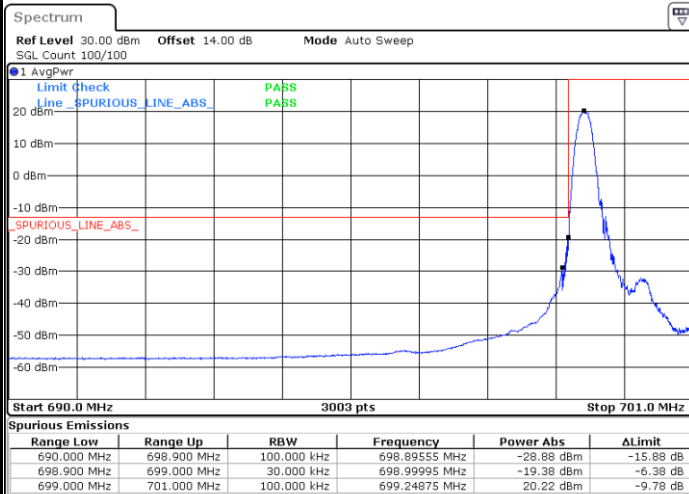




Conducted Band Edge

LTE Band 12 / 1.4MHz / QPSK

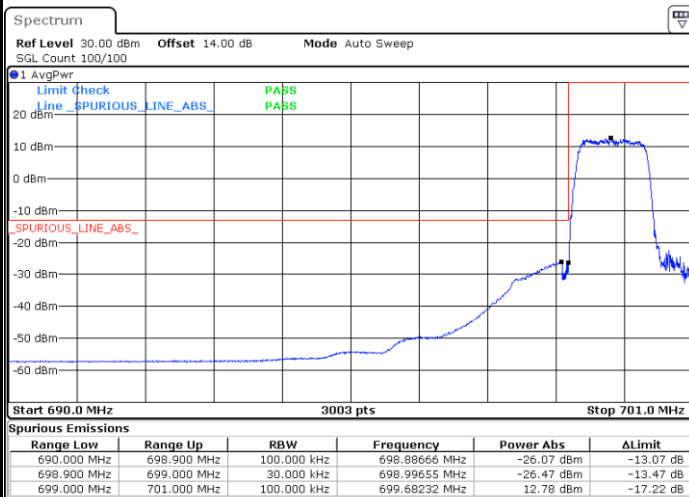
Lowest Band Edge / 1RB



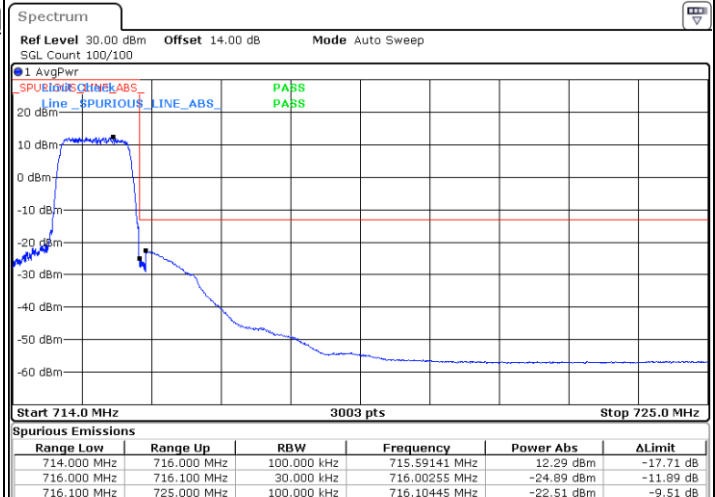
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



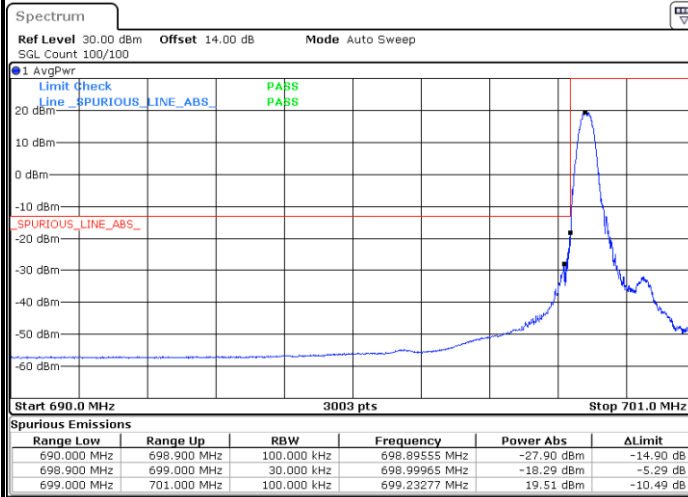
Highest Band Edge / Full RB





LTE Band 12 / 1.4MHz / 16QAM

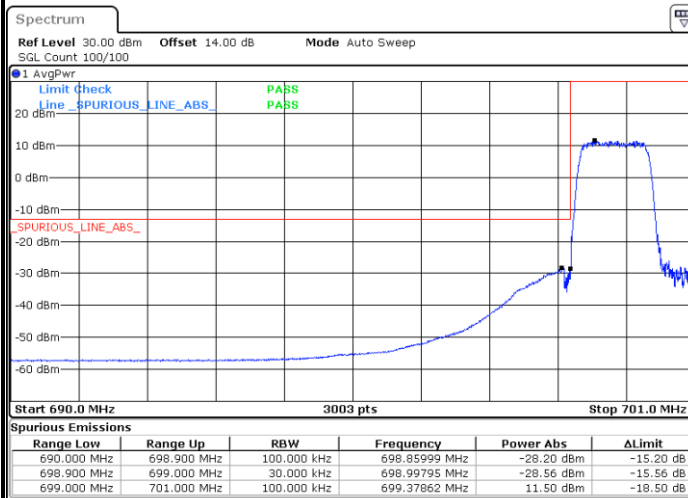
Lowest Band Edge / 1 RB



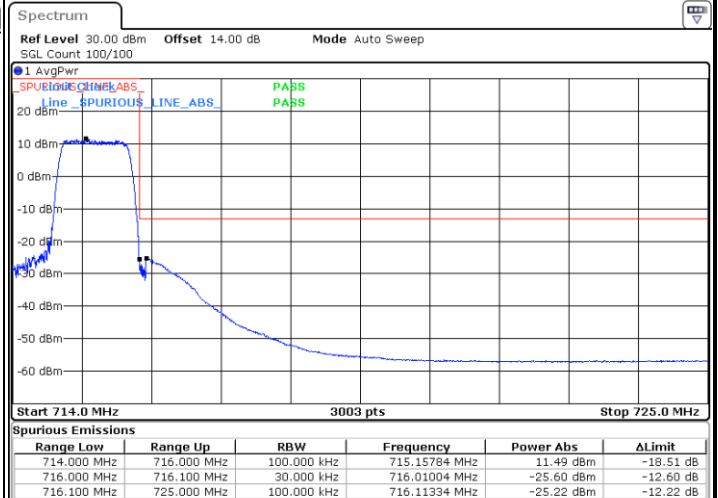
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



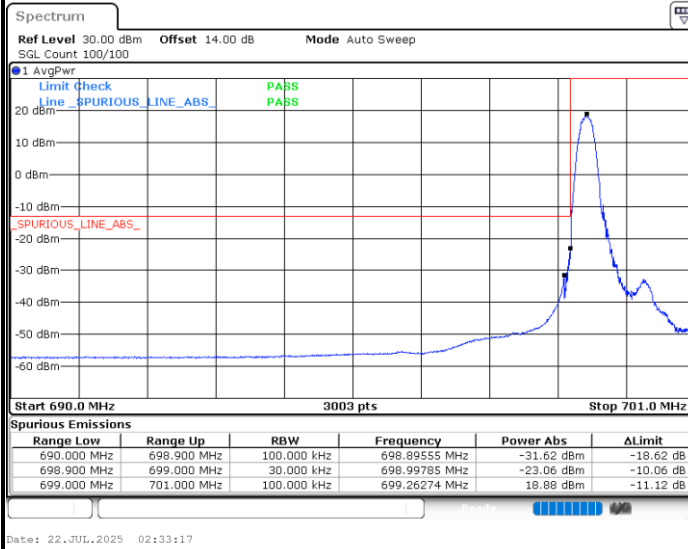
Highest Band Edge / Full RB



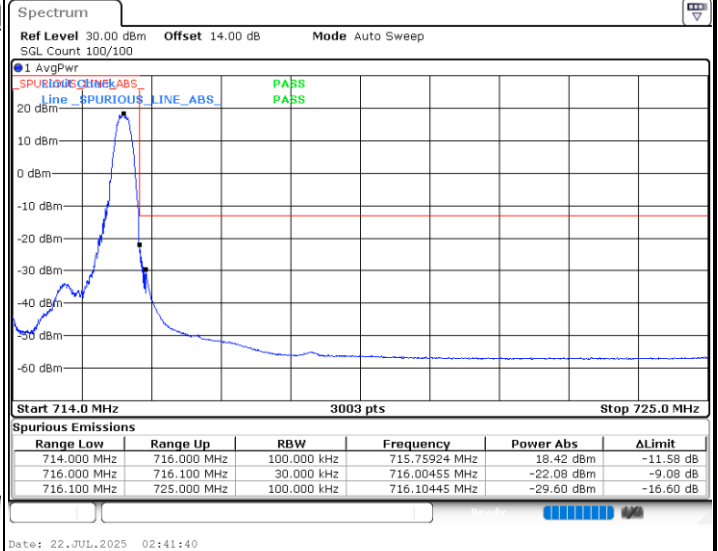


LTE Band 12 / 1.4MHz / 64QAM

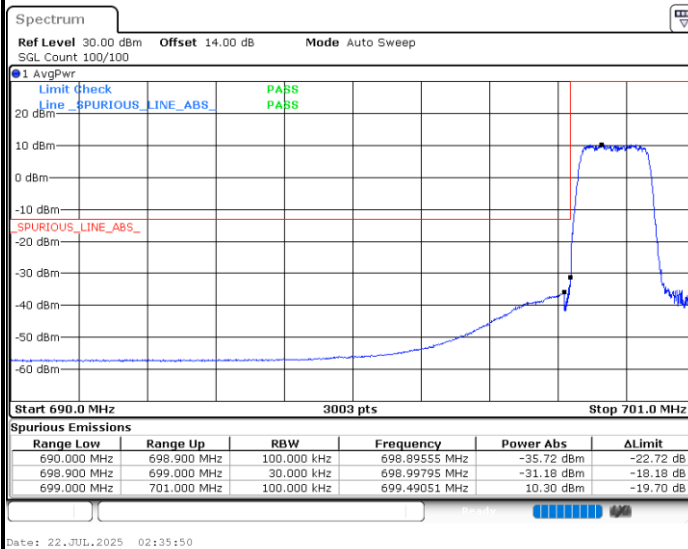
Lowest Band Edge / 1 RB



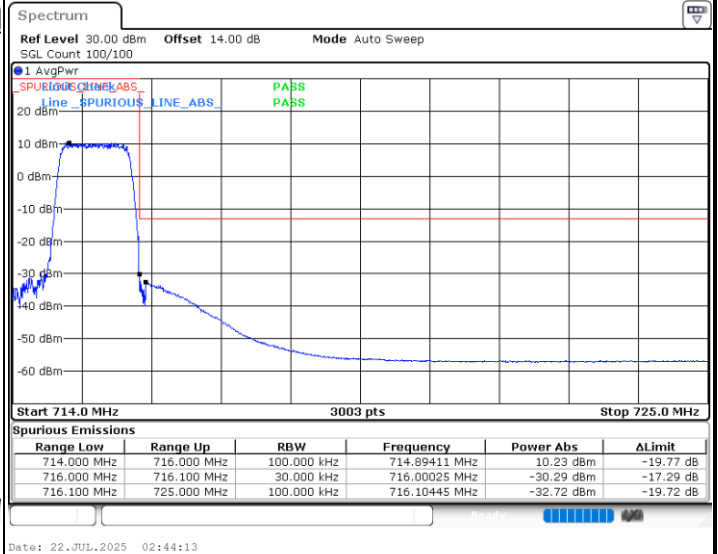
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



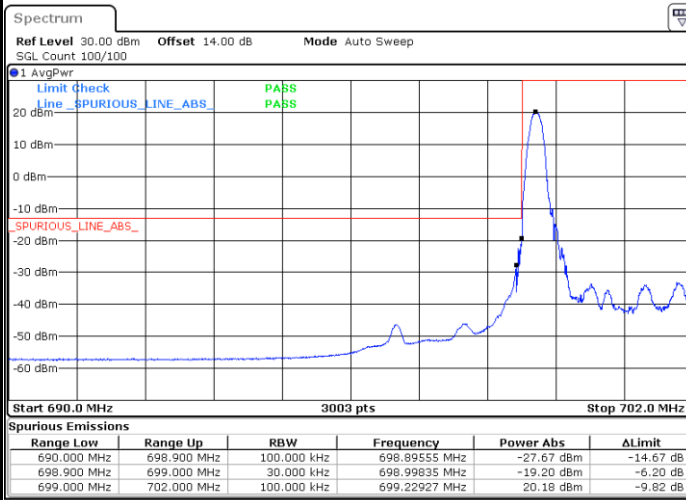
Highest Band Edge / Full RB



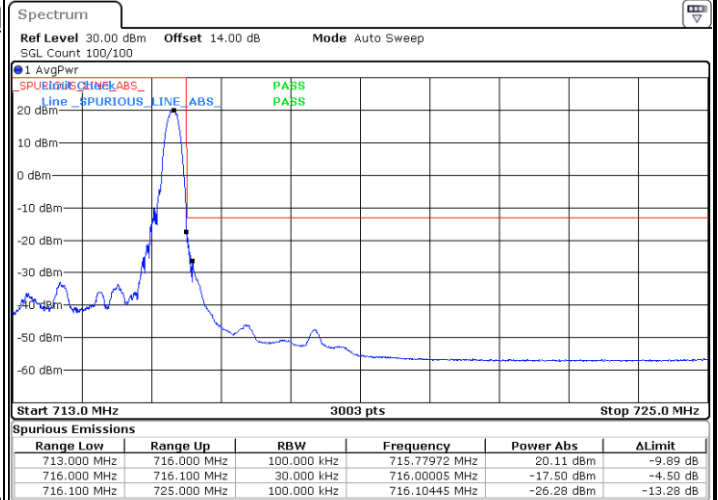


LTE Band 12 / 3MHz / QPSK

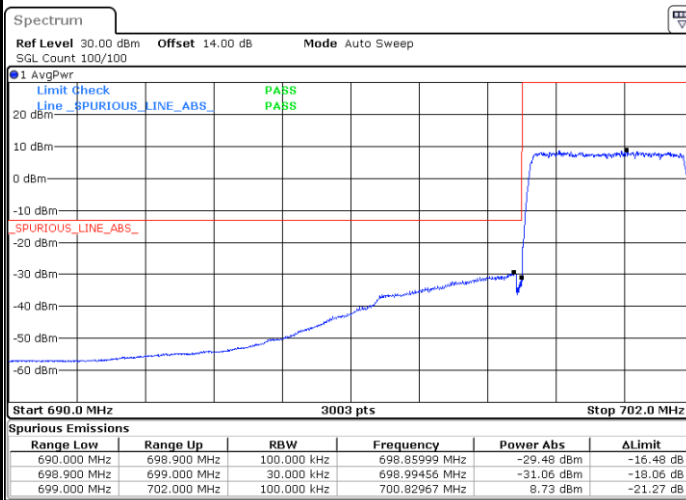
Lowest Band Edge / 1RB



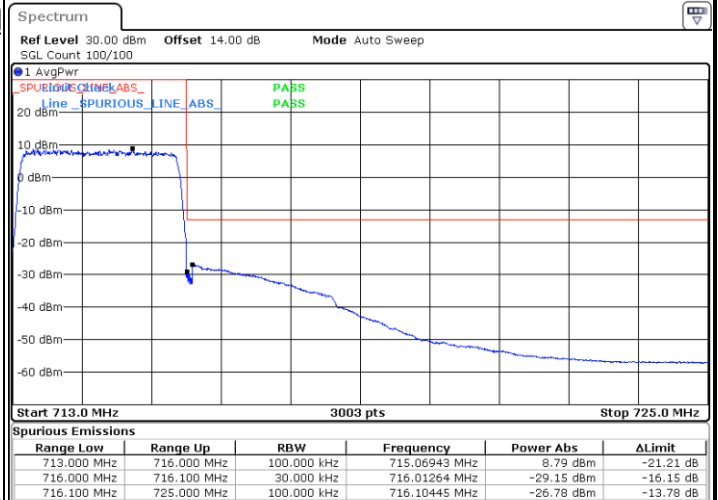
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



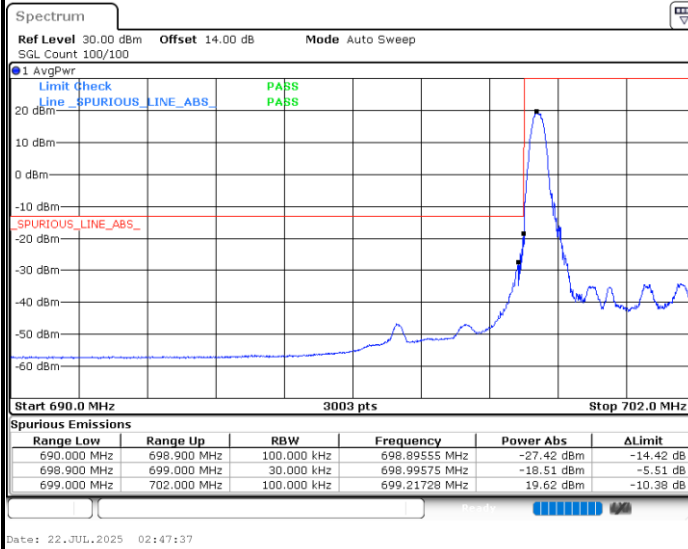
Highest Band Edge / Full RB



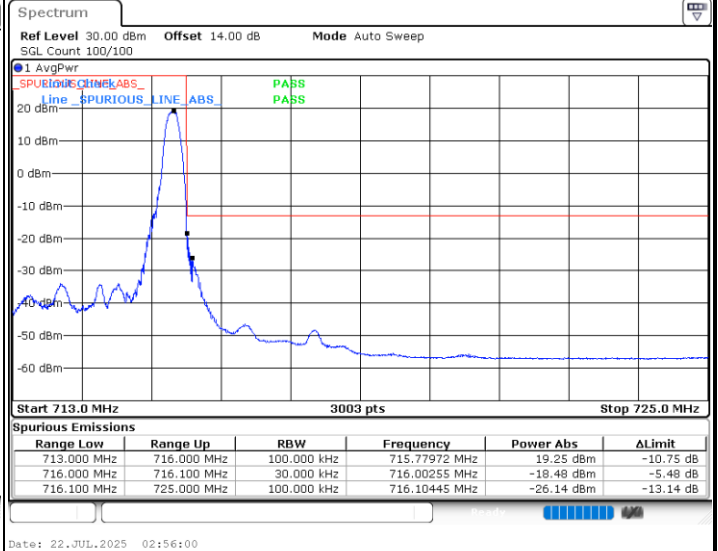


LTE Band 12 / 3MHz / 16QAM

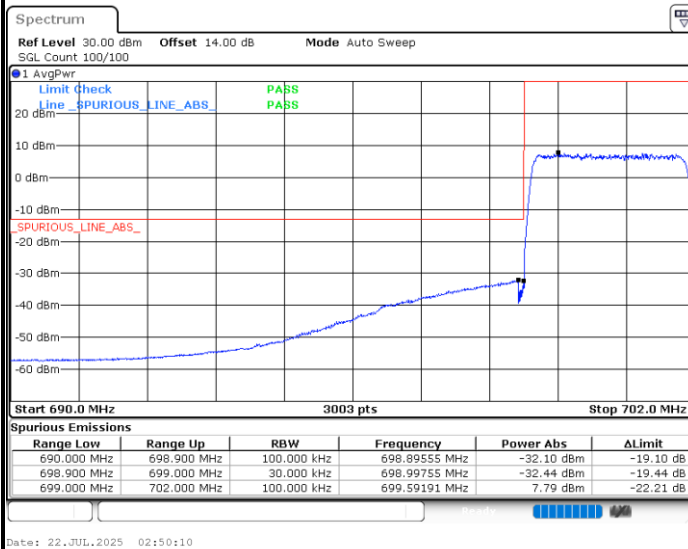
Lowest Band Edge / 1 RB



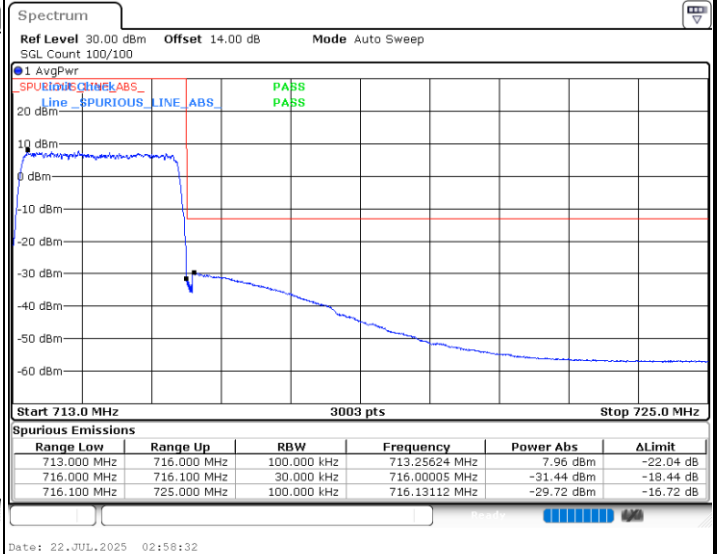
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



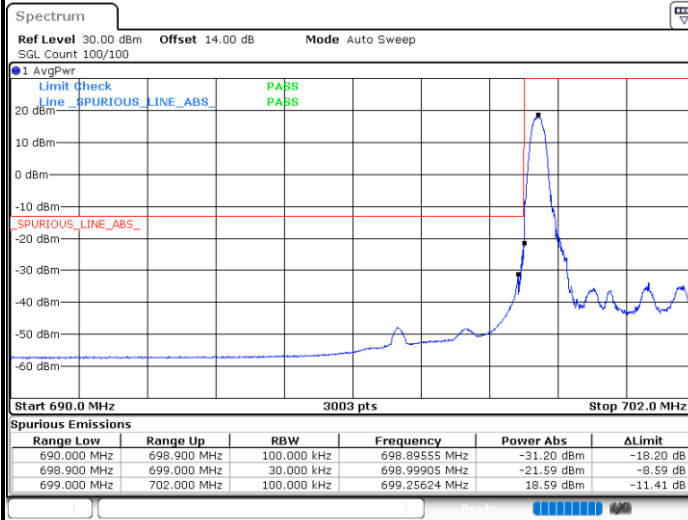
Highest Band Edge / Full RB



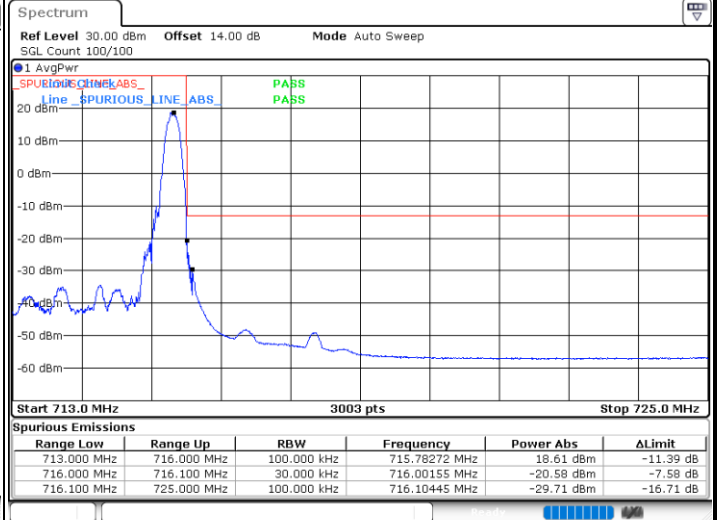


LTE Band 12 / 3MHz / 64QAM

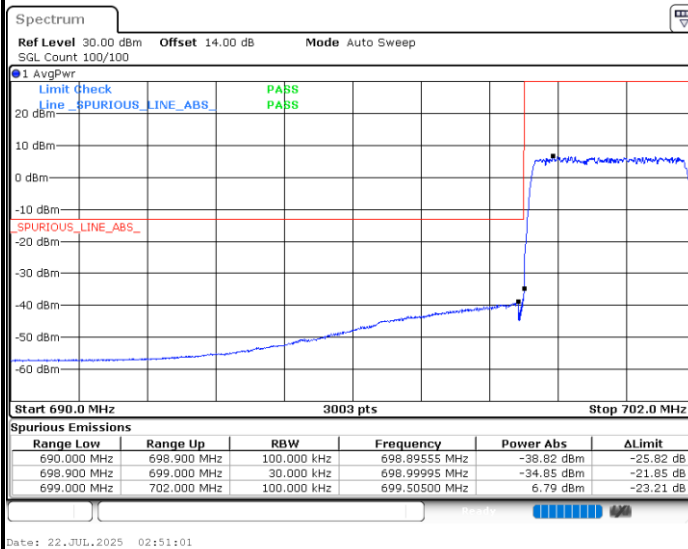
Lowest Band Edge / 1 RB



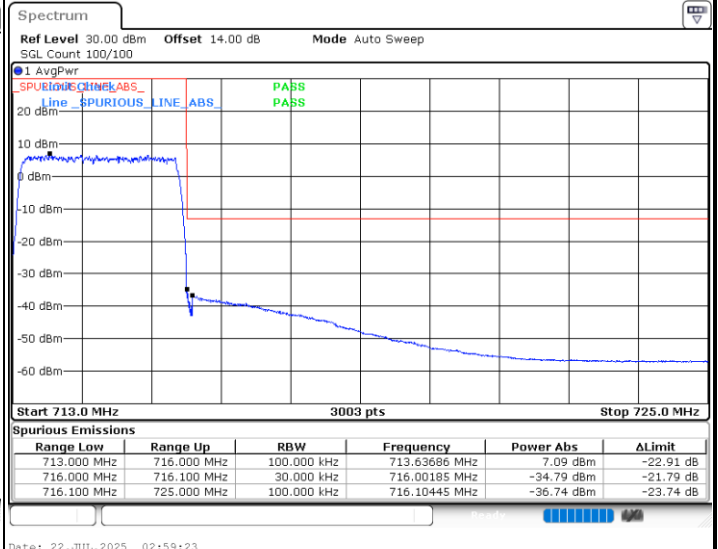
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



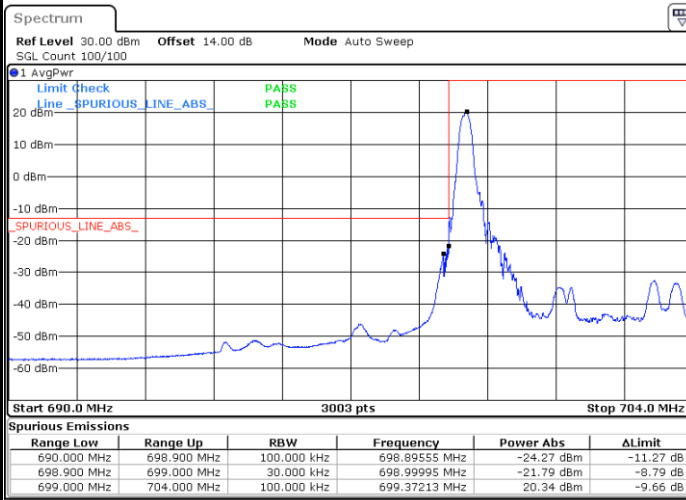
Highest Band Edge / Full RB



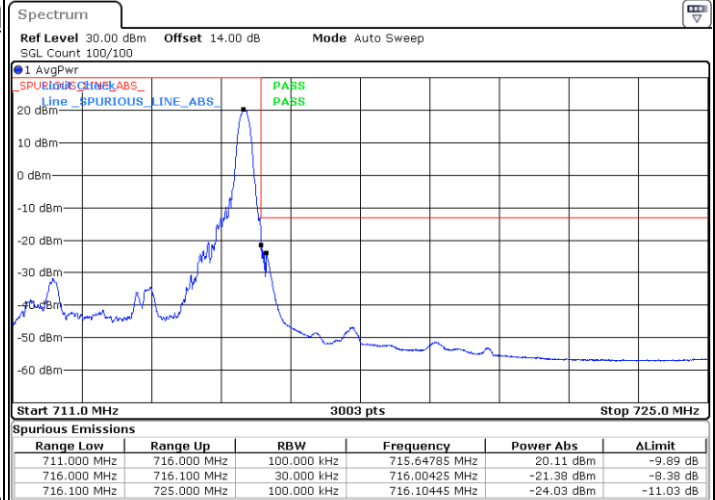


LTE Band 12 / 5MHz / QPSK

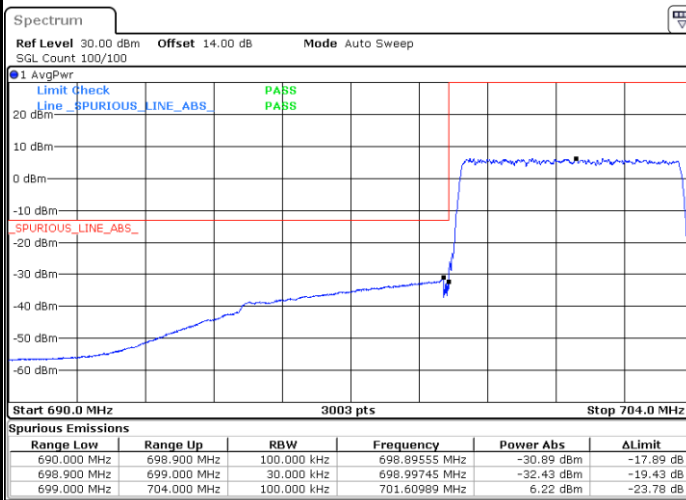
Lowest Band Edge / 1RB



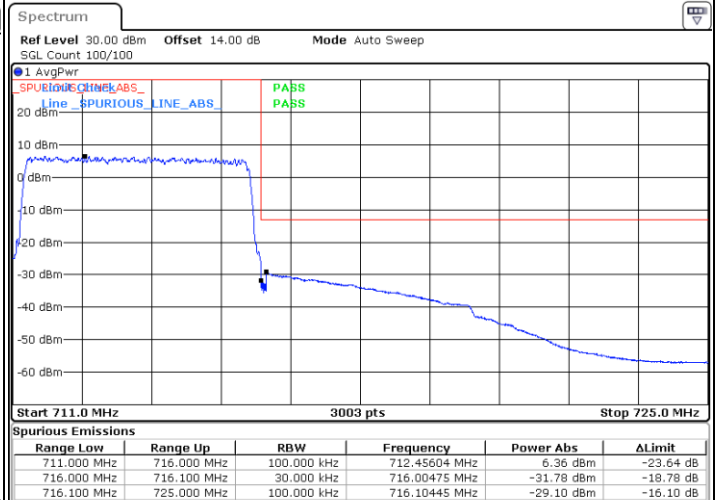
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



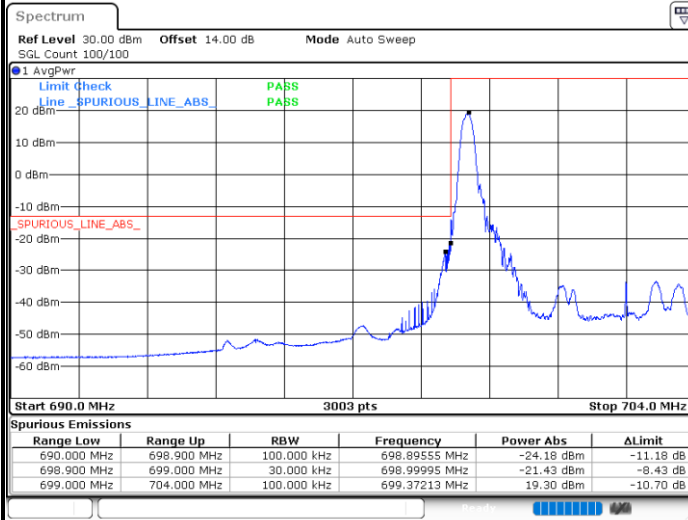
Highest Band Edge / Full RB



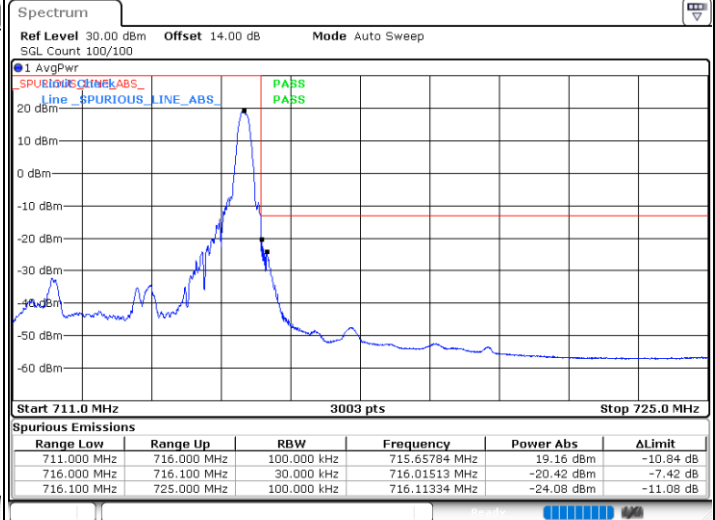


LTE Band 12 / 5MHz / 16QAM

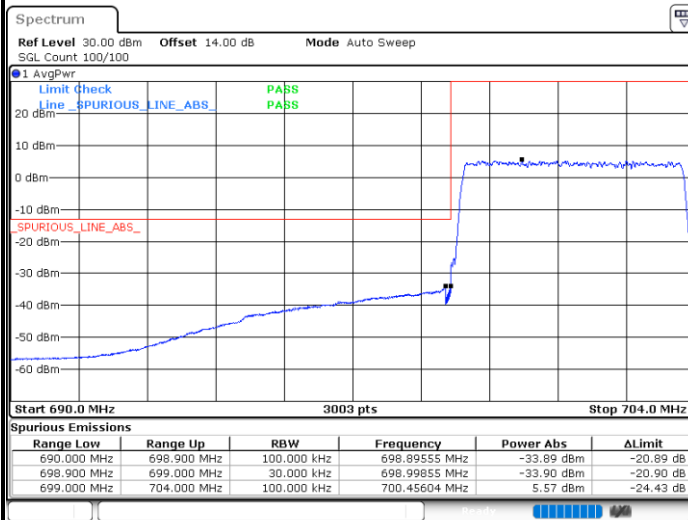
Lowest Band Edge / 1 RB



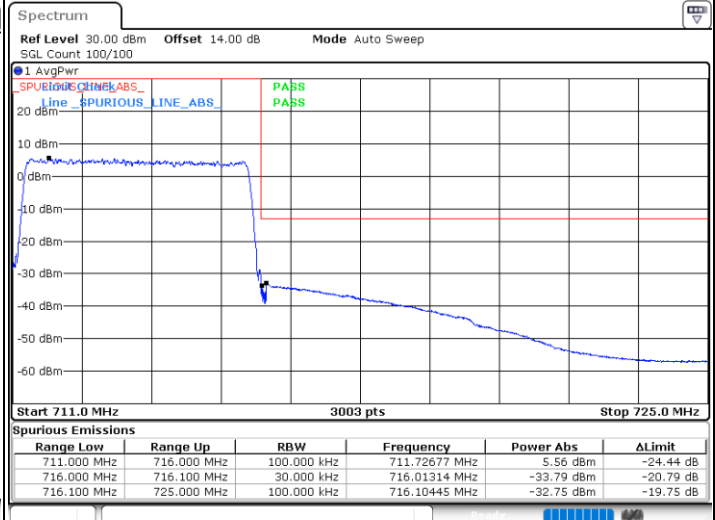
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



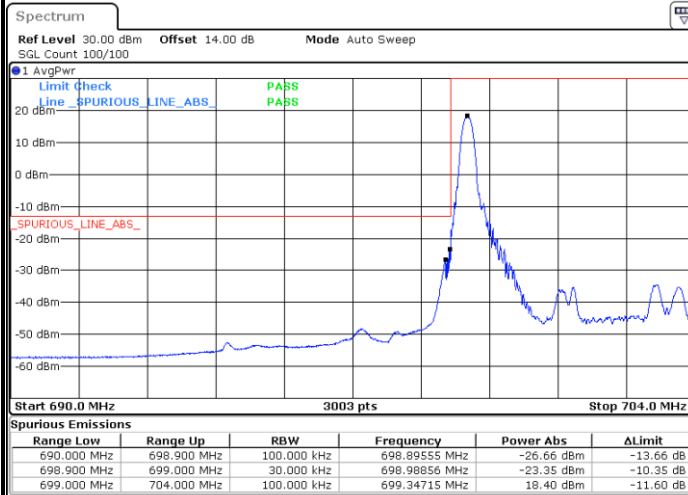
Highest Band Edge / Full RB





LTE Band 12 / 5MHz / 64QAM

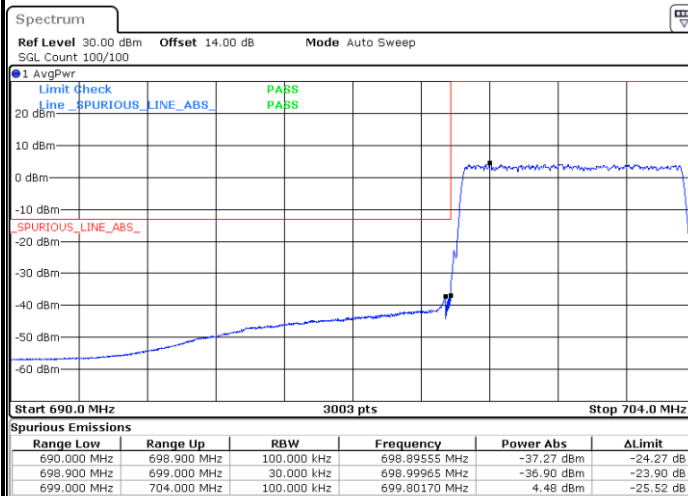
Lowest Band Edge / 1 RB



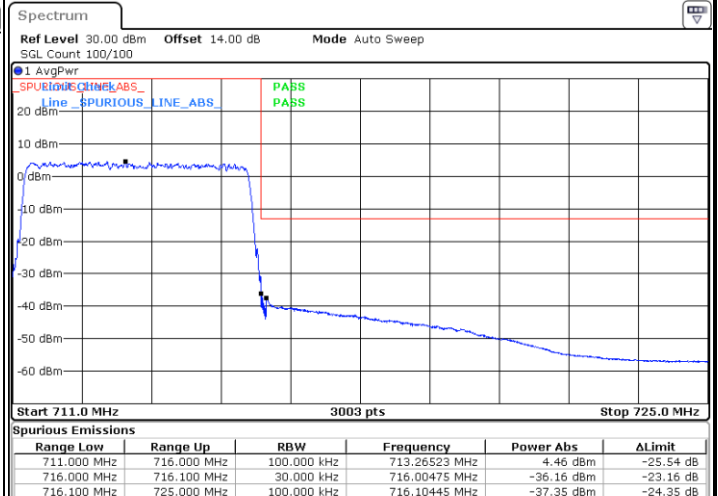
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



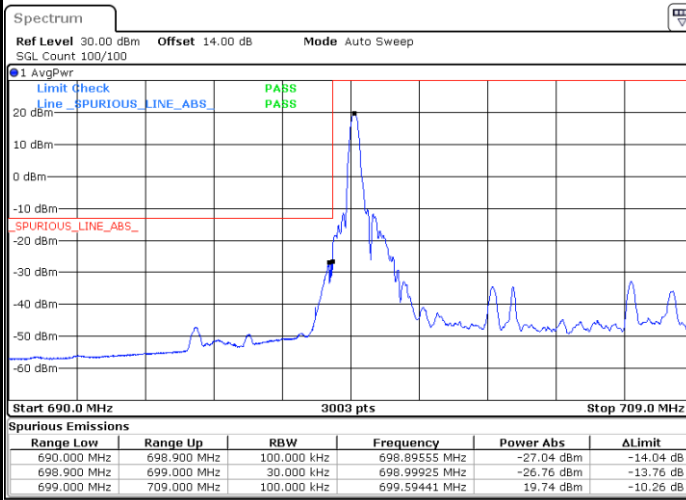
Highest Band Edge / Full RB



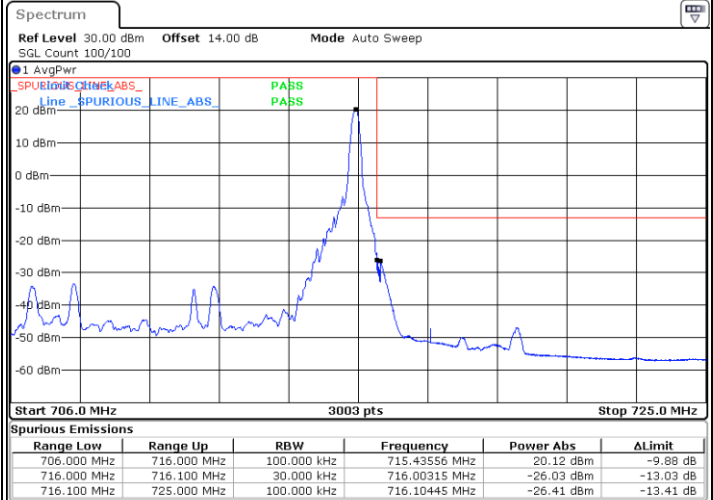


LTE Band 12 / 10MHz / QPSK

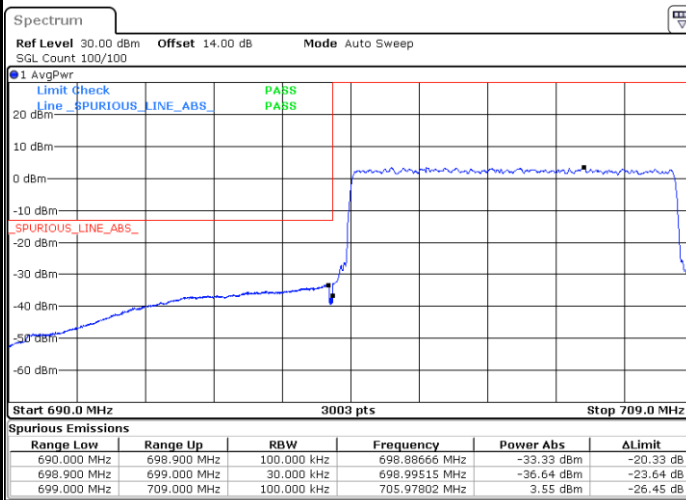
Lowest Band Edge / 1RB



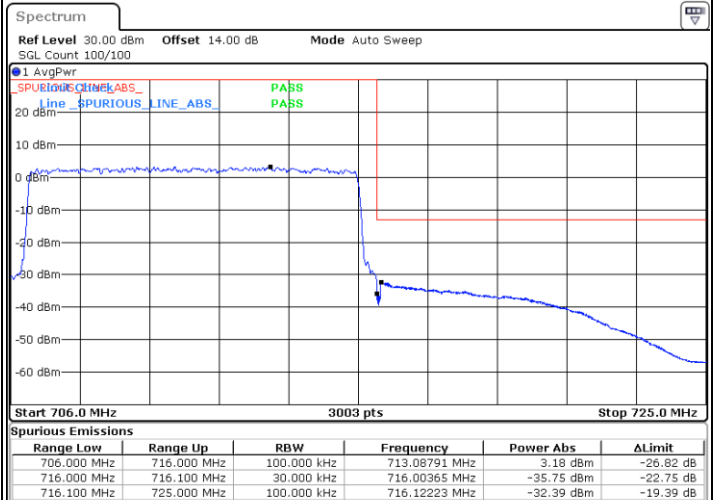
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



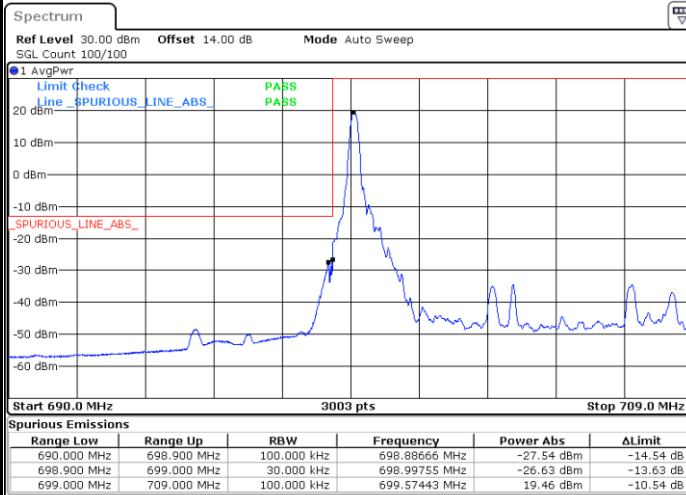
Highest Band Edge / Full RB



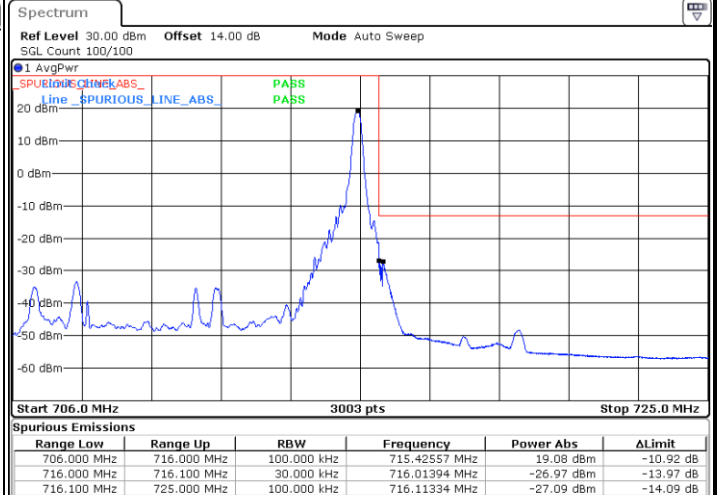


LTE Band 12 / 10MHz / 16QAM

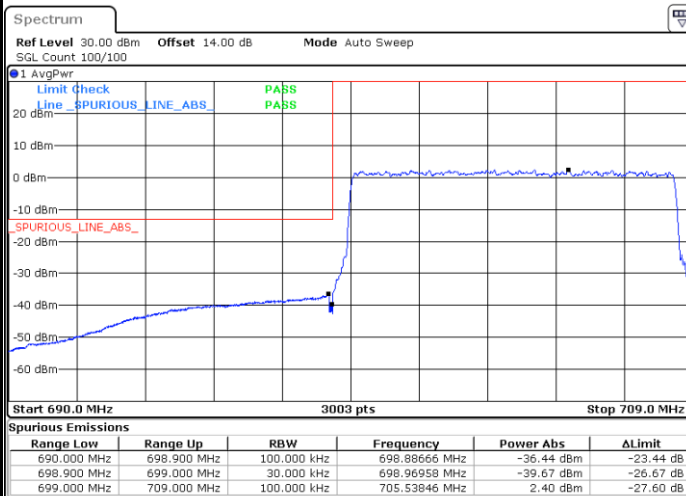
Lowest Band Edge / 1 RB



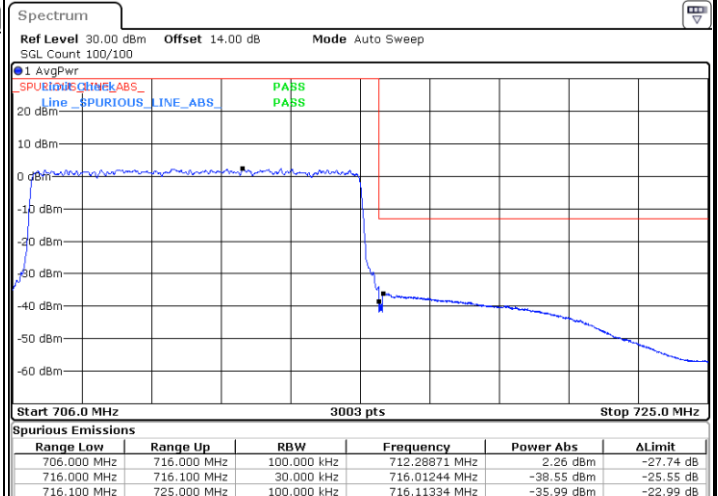
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



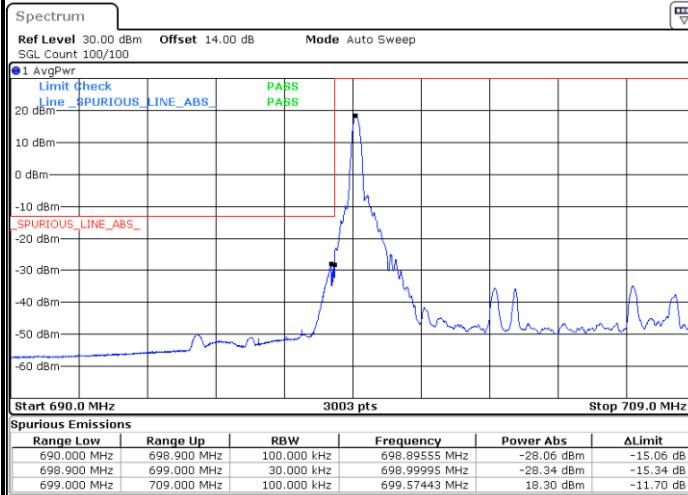
Highest Band Edge / Full RB



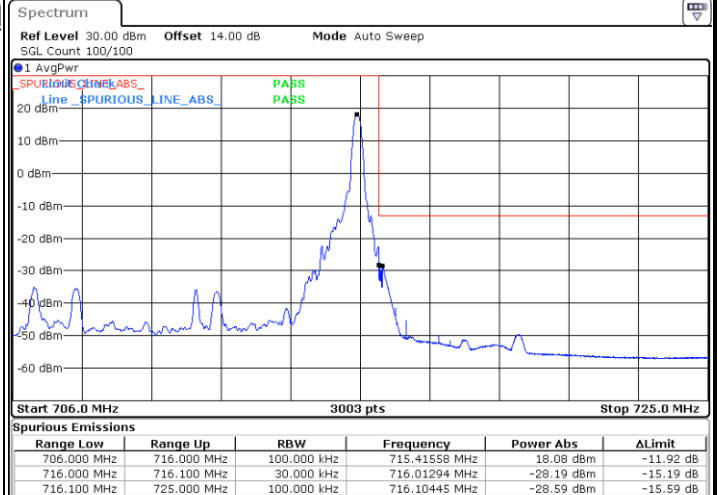


LTE Band 12 / 10MHz / 64QAM

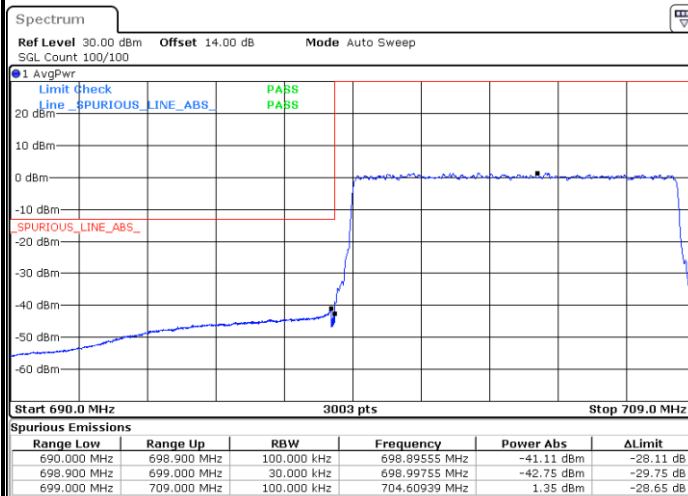
Lowest Band Edge / 1 RB



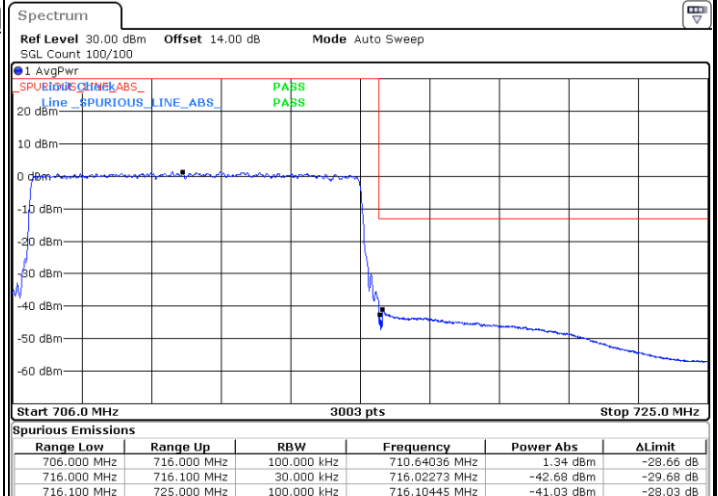
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

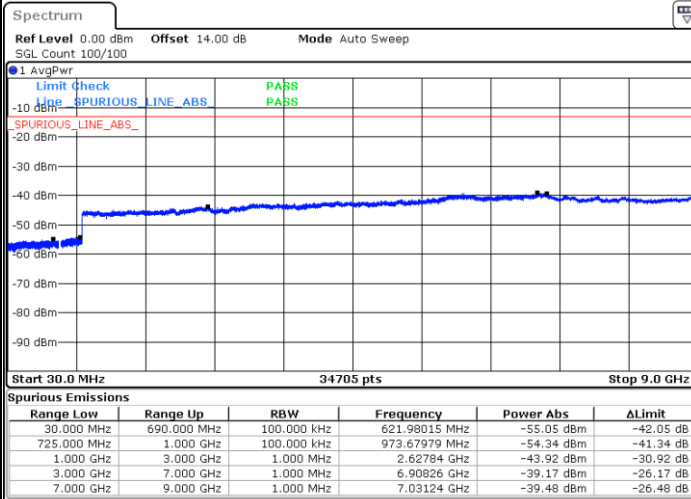




Conducted Spurious Emission

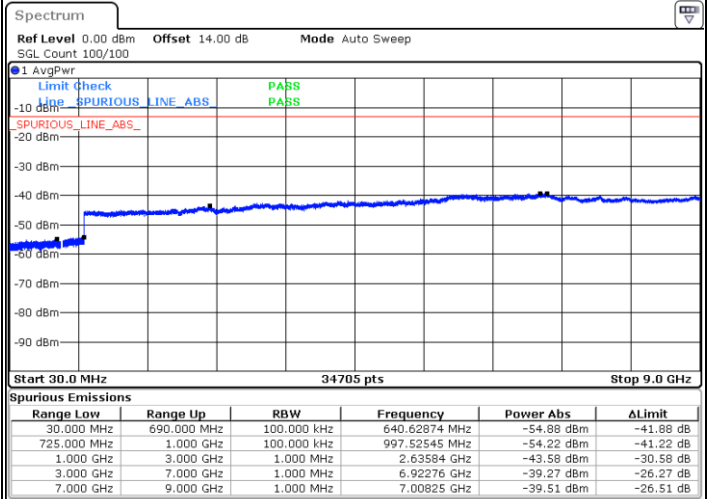
LTE Band 12 / 1.4MHz

Lowest Channel / QPSK



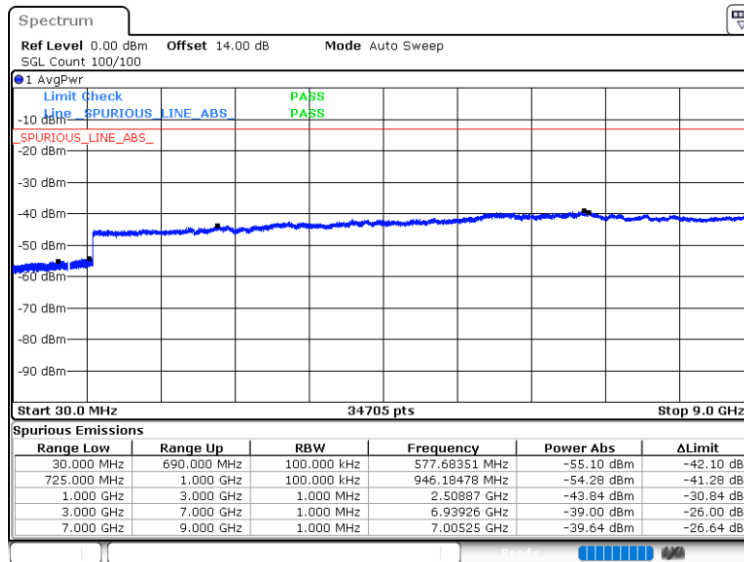
Date: 22.JUL.2025 02:36:50

Middle Channel / QPSK



Date: 22.JUL.2025 02:37:49

Highest Channel / QPSK

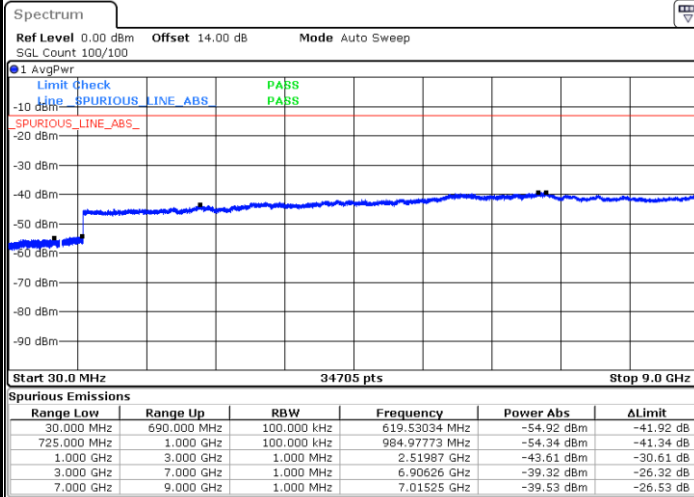


Date: 22.JUL.2025 02:45:13



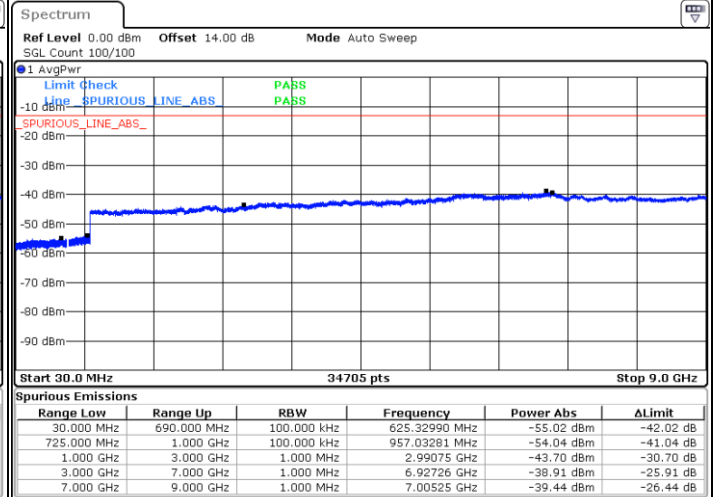
LTE Band 12 / 3MHz

Lowest Channel / QPSK



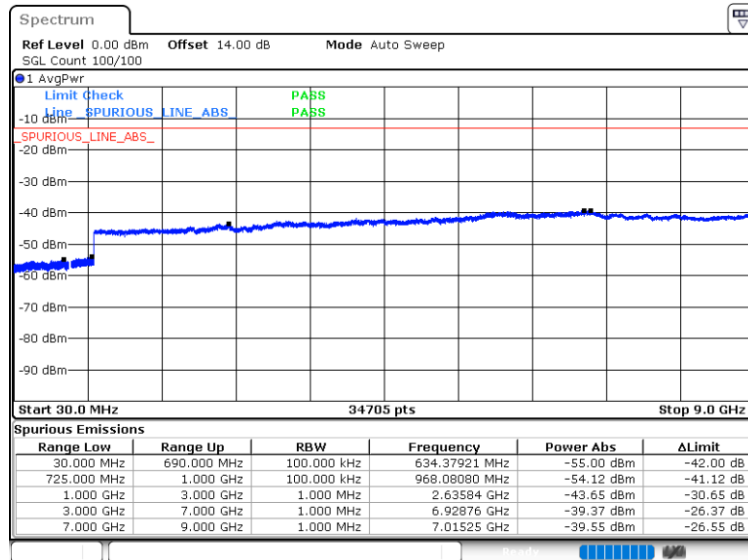
Date: 22.JUL.2025 02:52:01

Middle Channel / QPSK



Date: 22.JUL.2025 02:53:00

Highest Channel / QPSK

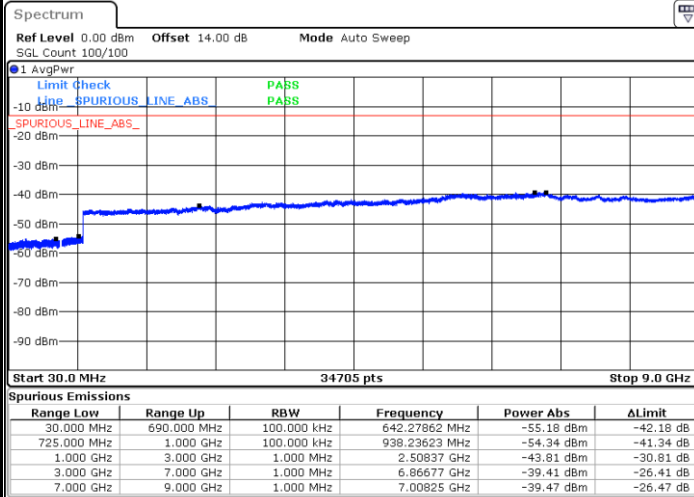


Date: 22.JUL.2025 03:00:23



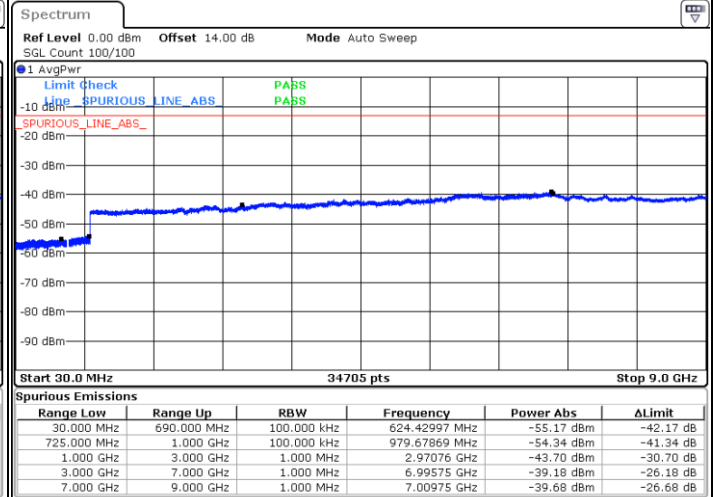
LTE Band 12 / 5MHz

Lowest Channel / QPSK



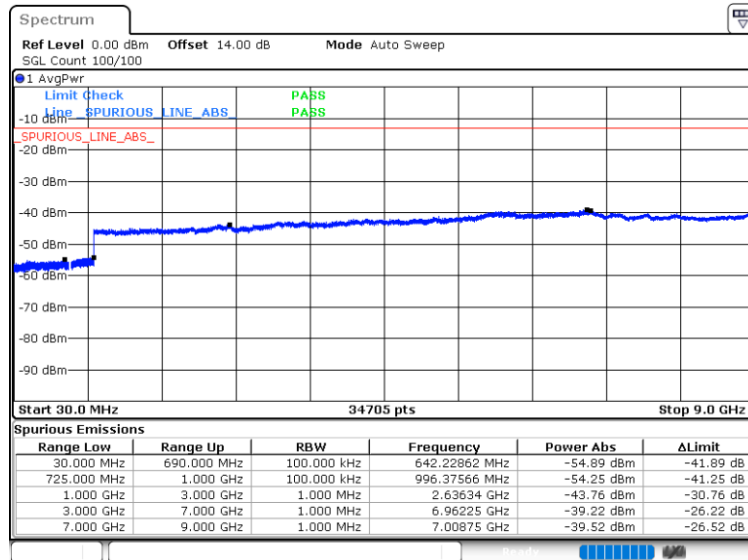
Date: 22.JUL.2025 03:07:10

Middle Channel / QPSK



Date: 22.JUL.2025 03:08:10

Highest Channel / QPSK

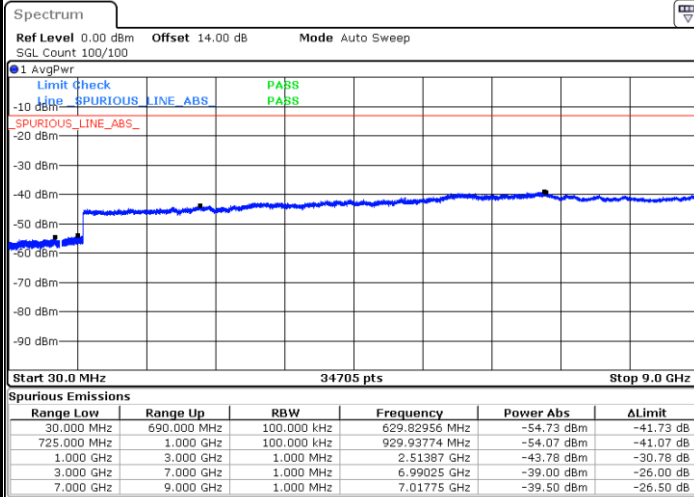


Date: 22.JUL.2025 03:15:32



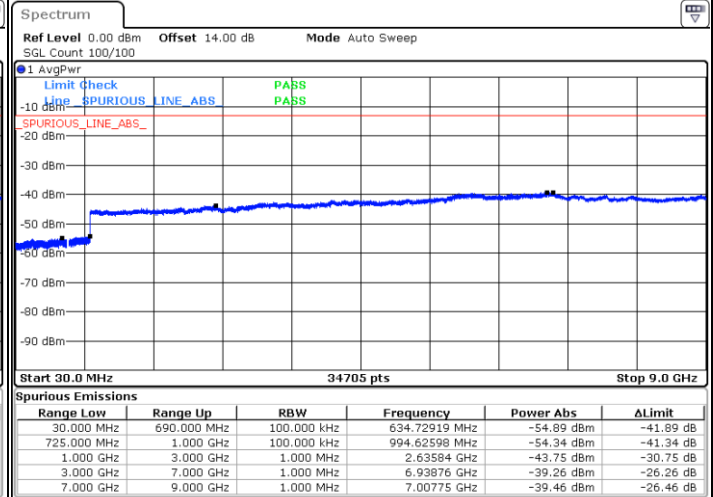
LTE Band 12 / 10MHz

Lowest Channel / QPSK



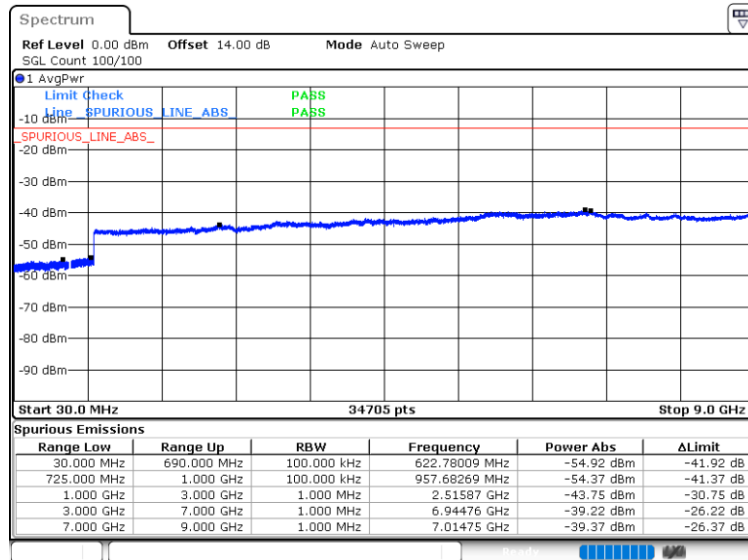
Date: 22.JUL.2025 03:22:20

Middle Channel / QPSK



Date: 22.JUL.2025 03:23:19

Highest Channel / QPSK



Date: 22.JUL.2025 03:32:05

**Frequency Stability**

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0008	PASS
40	Normal Voltage	0.0048	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0030	
0	Normal Voltage	0.0054	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0008	
20	Maximum Voltage	0.0007	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0045	

Note:

1. Normal Voltage = 3.8 V. ; Minimum Voltage = 3.4 V. ; Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

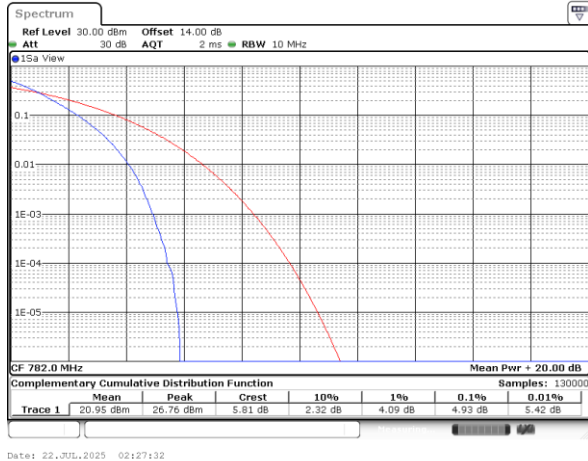
Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.93	5.83	6.23	PASS



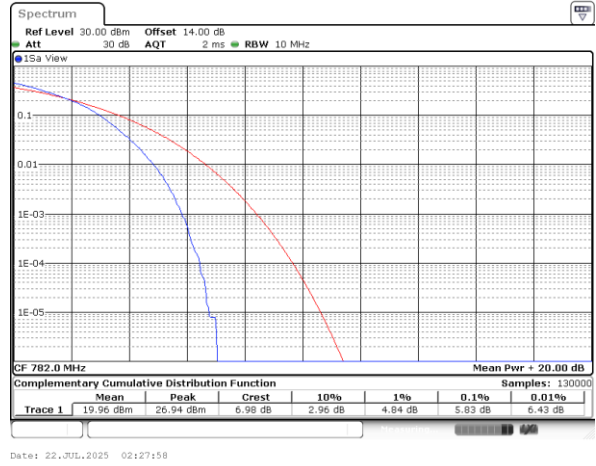
LTE Band 13 / 10MHz / QPSK

Middle Channel / Full RB



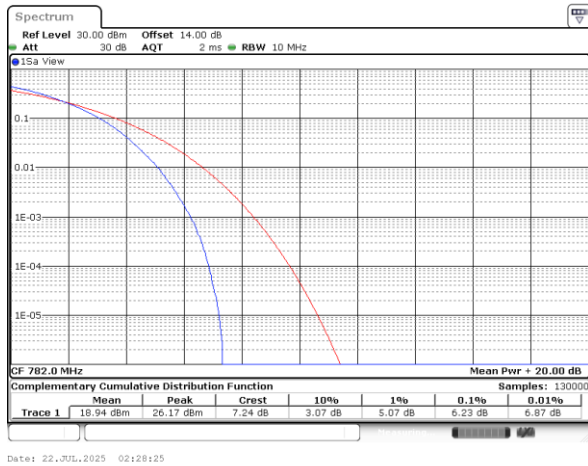
LTE Band 13 / 10MHz / 16QAM

Middle Channel / Full RB



LTE Band 13 / 10MHz / 64QAM

Middle Channel / Full RB





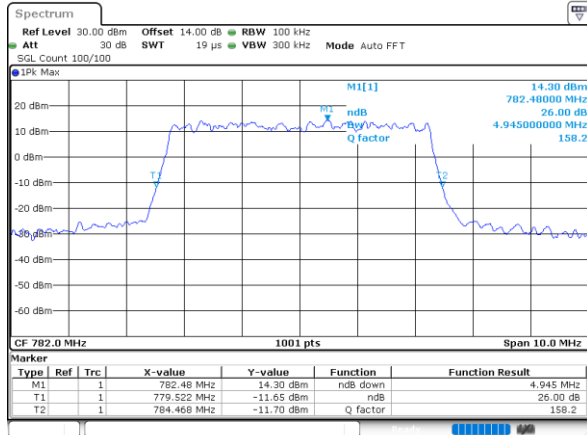
26dB Bandwidth

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	-	-	-	-	4.95	4.92	9.71	9.77	-	-	-	-

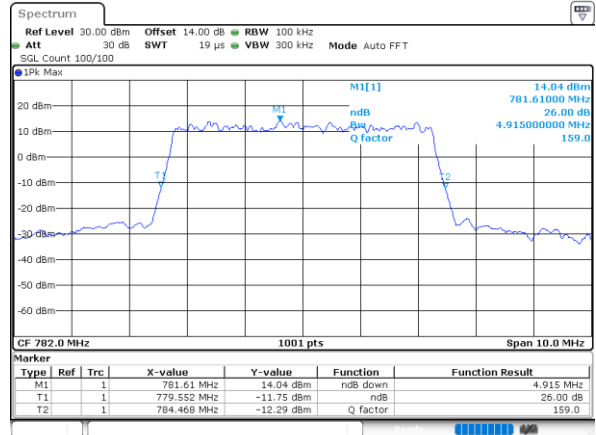


LTE Band 13

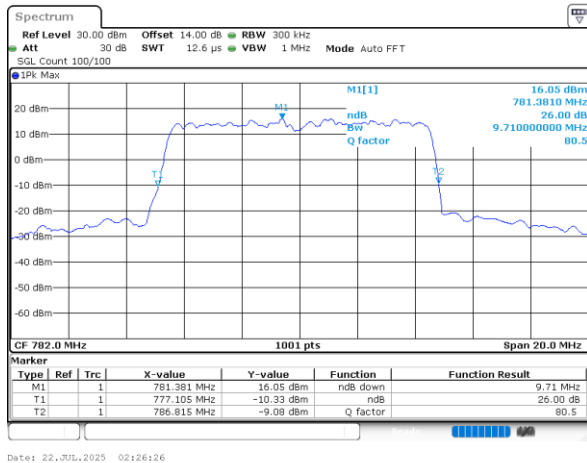
Middle Channel / 5MHz / QPSK



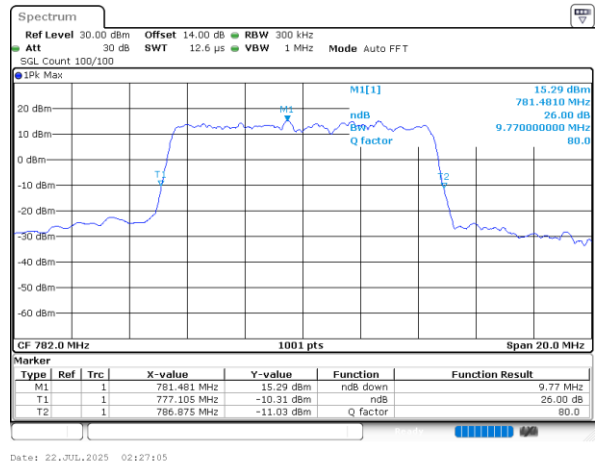
Middle Channel / 5MHz / 16QAM



Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM





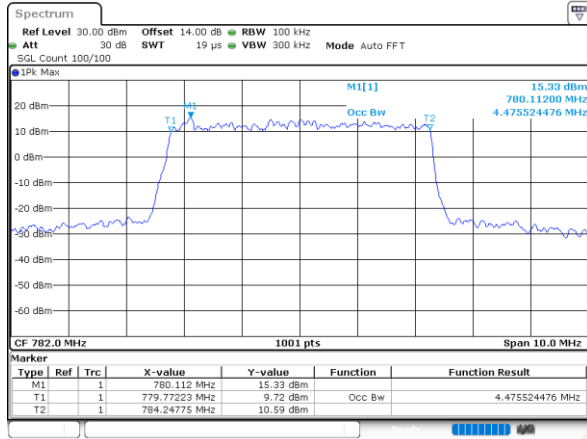
Occupied Bandwidth

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	-	-	-	-	4.48	4.48	9.07	9.01	-	-	-	-

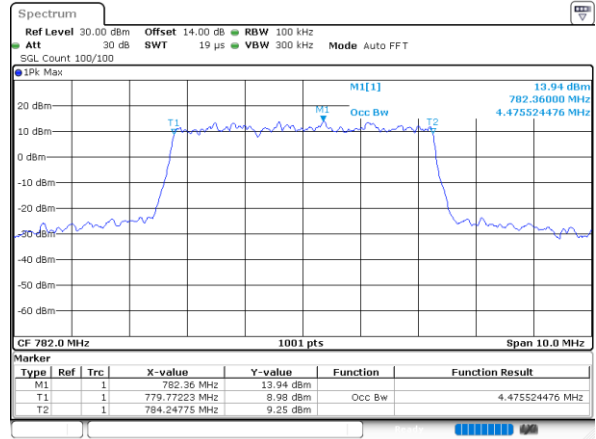


LTE Band 13

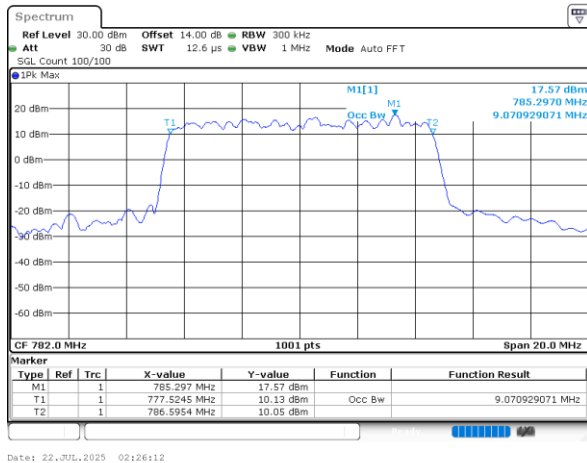
Middle Channel / 5MHz / QPSK



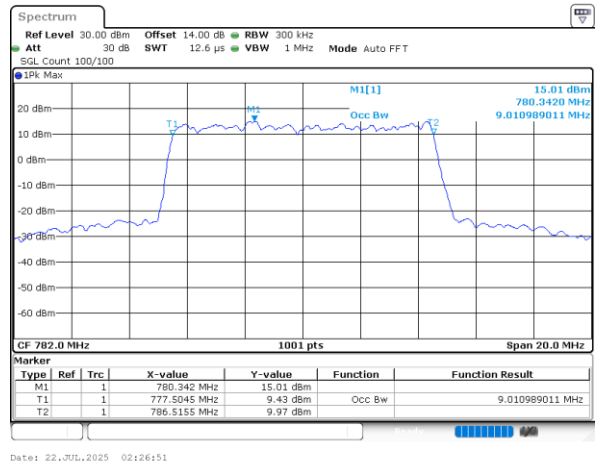
Middle Channel / 5MHz / 16QAM



Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM

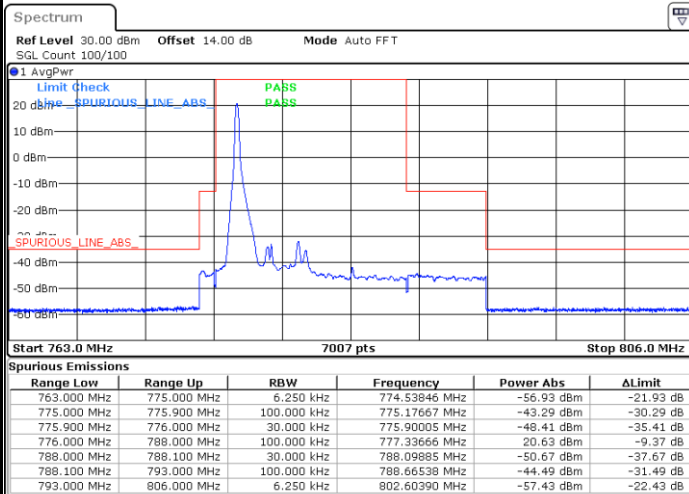




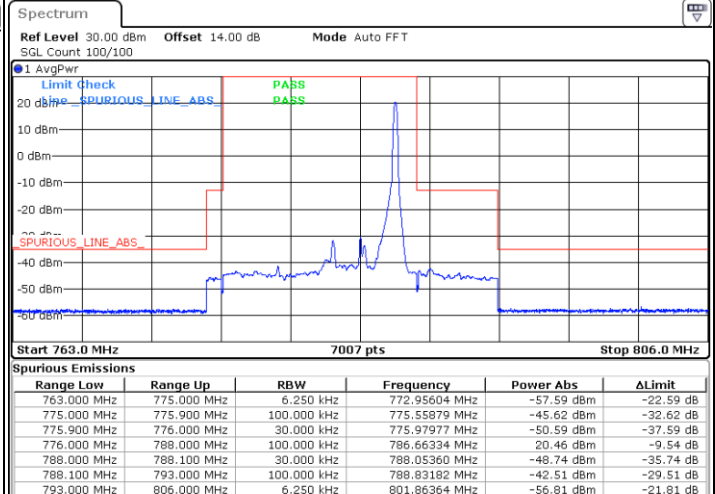
Conducted Band Edge

LTE Band 13 / 5MHz / QPSK

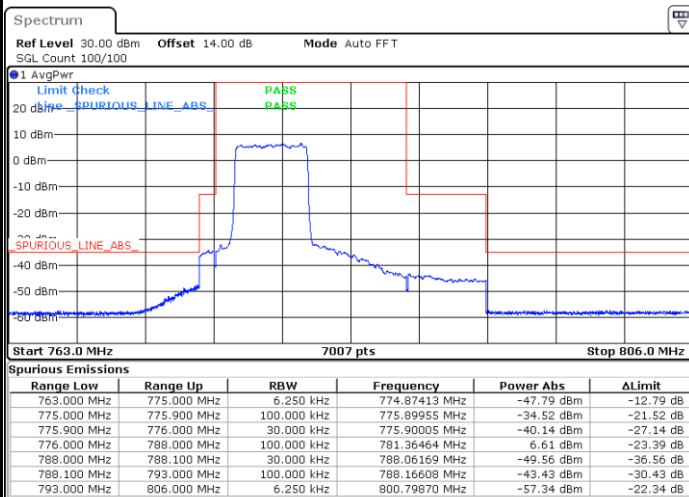
Lowest Band Edge / 1 RB



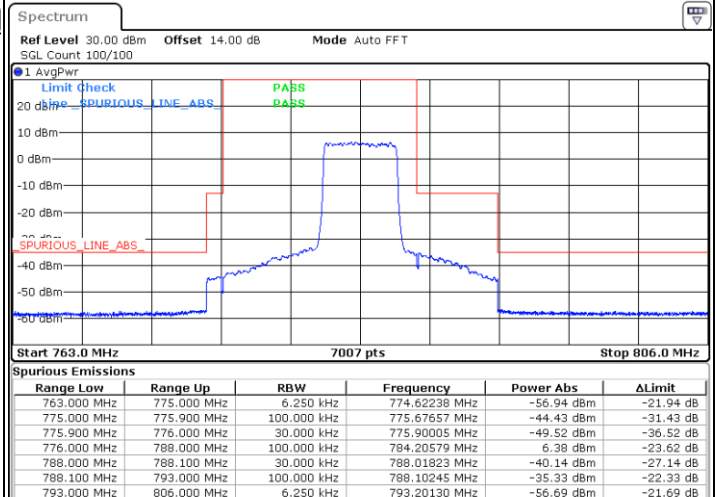
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



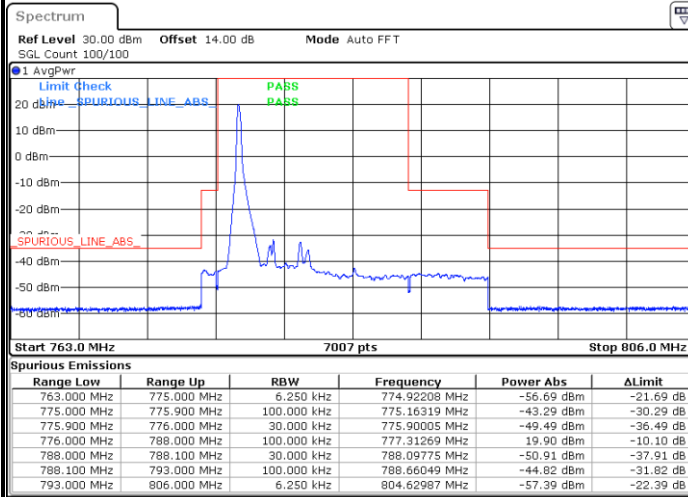
Highest Band Edge / Full RB





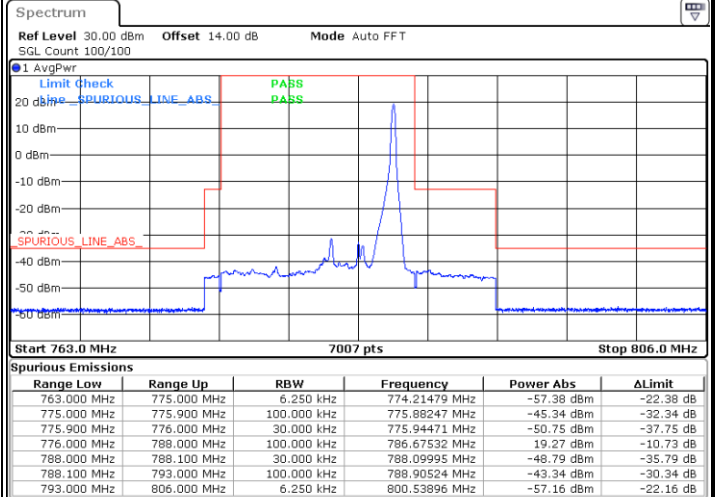
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



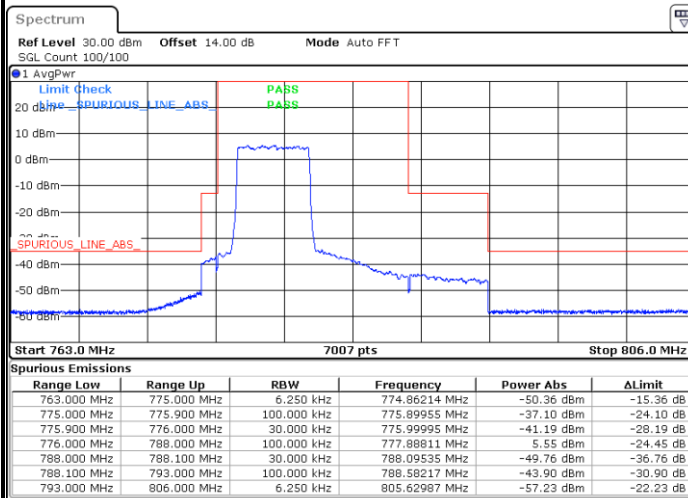
Date: 22.JUL.2025 02:02:40

Highest Band Edge / 1 RB



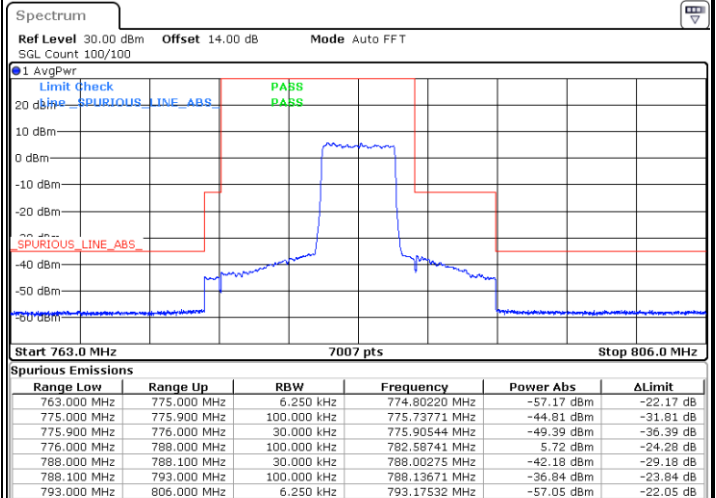
Date: 22.JUL.2025 02:11:03

Lowest Band Edge / Full RB



Date: 22.JUL.2025 02:05:13

Highest Band Edge / Full RB

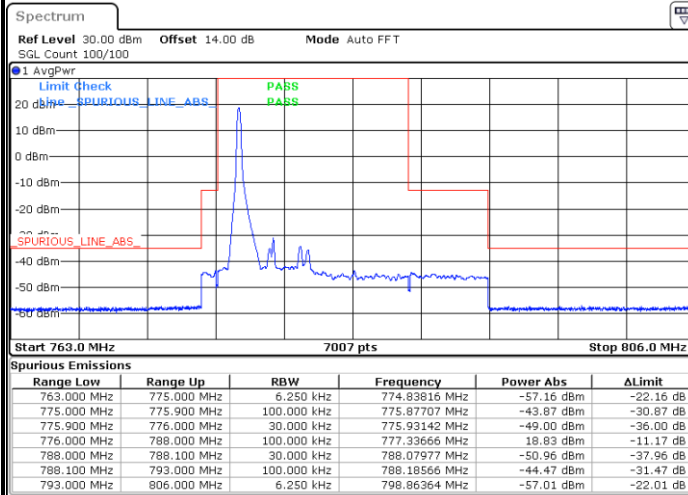


Date: 22.JUL.2025 02:13:35



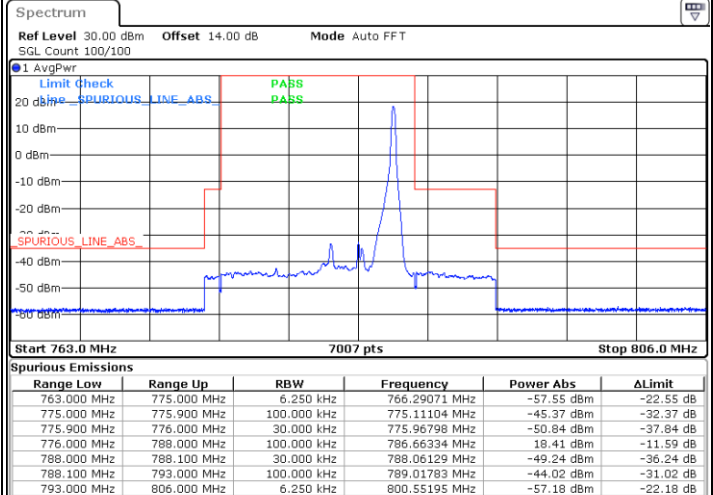
LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



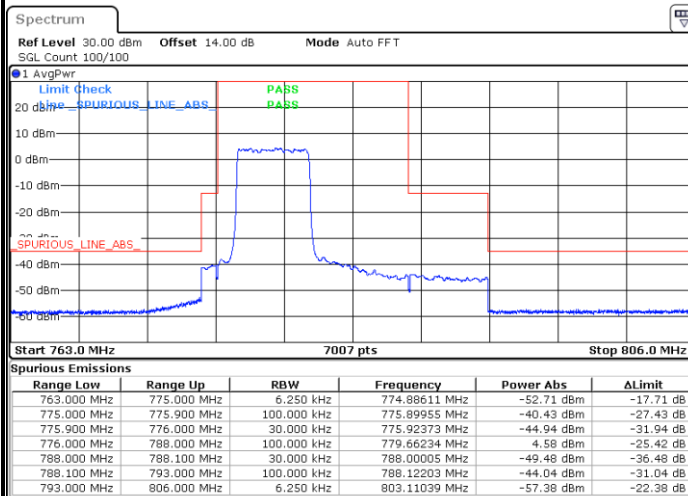
Date: 22.JUL.2025 02:03:31

Highest Band Edge / 1 RB



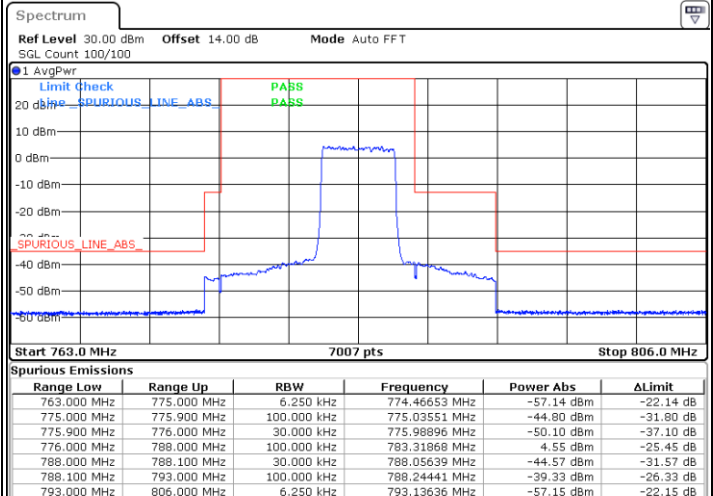
Date: 22.JUL.2025 02:11:54

Lowest Band Edge / Full RB



Date: 22.JUL.2025 02:06:03

Highest Band Edge / Full RB

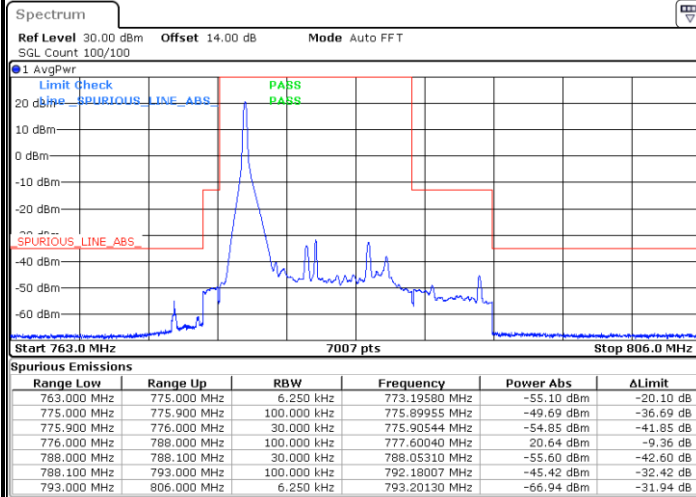


Date: 22.JUL.2025 02:14:26



LTE Band 13 / 10MHz / QPSK

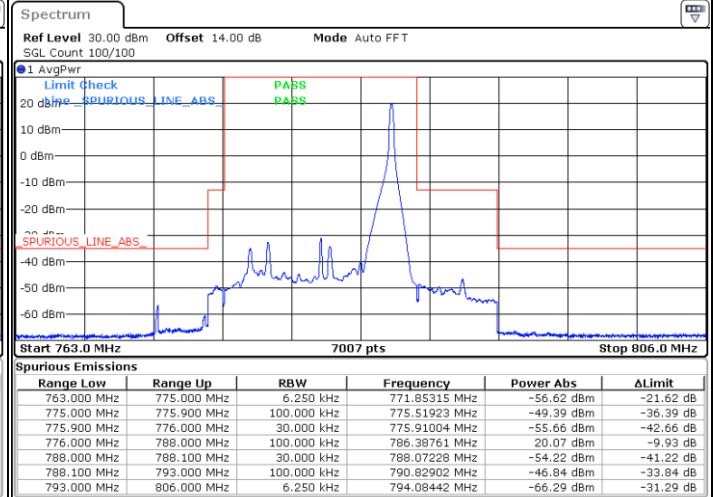
Band Edge / 1 RB



Date: 22.JUL.2025 02:18:04

LTE Band 13 / 10MHz / QPSK

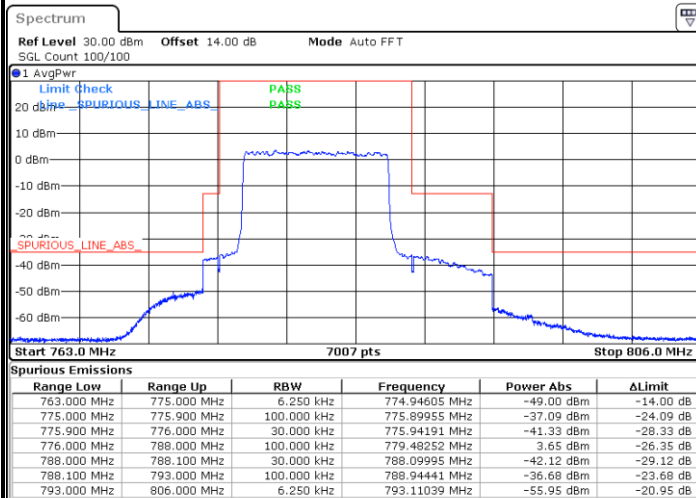
Band Edge / 1 RB



Date: 22.JUL.2025 02:20:35

LTE Band 13 / 10MHz / QPSK

Band Edge / Full RB



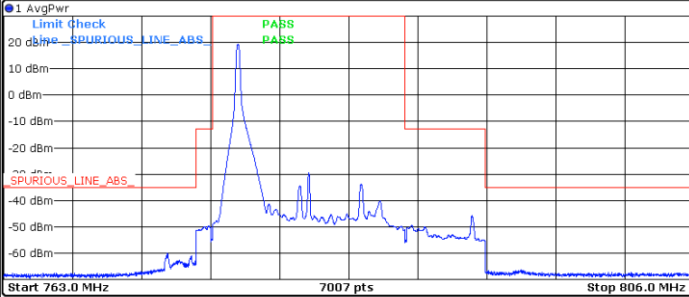
Date: 22.JUL.2025 02:23:06



LTE Band 13 / 10MHz / 16QAM

Band Edge / 1 RB

Spectrum

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

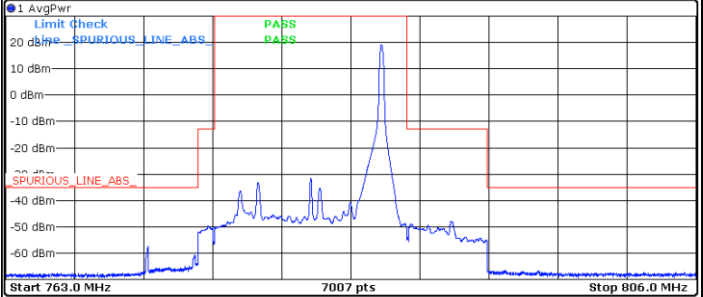
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	773.19580 MHz	-59.88 dBm	-24.88 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.75300 MHz	-49.67 dBm	-36.67 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.94281 MHz	-54.78 dBm	-41.78 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.58841 MHz	19.31 dBm	-10.69 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.05140 MHz	-55.01 dBm	-42.01 dB
788.100 MHz	793.000 MHz	100.000 kHz	792.17028 MHz	-45.91 dBm	-32.91 dB
793.000 MHz	806.000 MHz	6.250 kHz	795.22727 MHz	-66.32 dBm	-31.32 dB

Date: 22.JUL.2025 02:18:54

LTE Band 13 / 10MHz / 16QAM

Band Edge / 1 RB

Spectrum

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

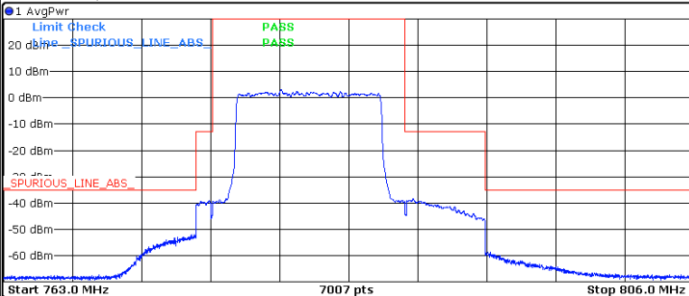
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	771.86513 MHz	-57.25 dBm	-22.25 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.62173 MHz	-49.75 dBm	-36.75 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.90005 MHz	-55.11 dBm	-42.11 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.39960 MHz	19.18 dBm	-10.82 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.04171 MHz	-54.04 dBm	-41.04 dB
788.100 MHz	793.000 MHz	100.000 kHz	790.78497 MHz	-47.95 dBm	-34.95 dB
793.000 MHz	806.000 MHz	6.250 kHz	796.14935 MHz	-66.61 dBm	-31.61 dB

Date: 22.JUL.2025 02:21:25

LTE Band 13 / 10MHz / 16QAM

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	774.68232 MHz	-52.15 dBm	-17.15 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.80335 MHz	-39.26 dBm	-26.26 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99995 MHz	-44.18 dBm	-31.18 dB
776.000 MHz	788.000 MHz	100.000 kHz	780.28571 MHz	2.97 dBm	-27.03 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.09995 MHz	-43.94 dBm	-30.94 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.50385 MHz	-38.52 dBm	-25.52 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.17532 MHz	-58.65 dBm	-23.65 dB

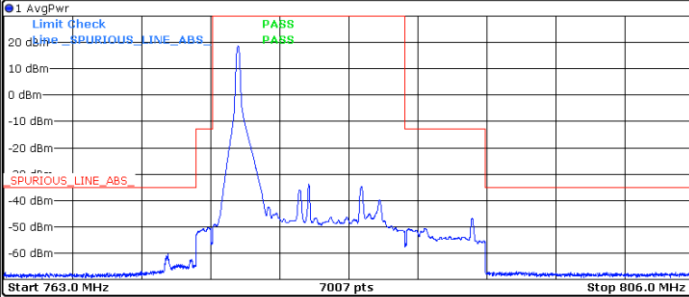
Date: 22.JUL.2025 02:23:56



LTE Band 13 / 10MHz / 64QAM

Band Edge / 1 RB

Spectrum

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

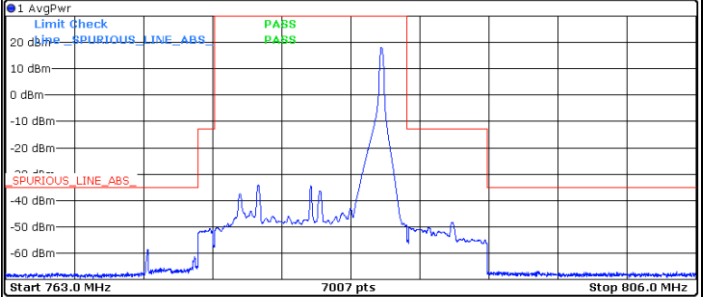
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	773.20779 MHz	-60.36 dBm	-25.36 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.73861 MHz	-50.43 dBm	-37.43 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.95619 MHz	-55.94 dBm	-42.94 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.58841 MHz	-19.67 dBm	-11.33 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.07178 MHz	-56.18 dBm	-43.18 dB
788.100 MHz	793.000 MHz	100.000 kHz	792.17028 MHz	-46.66 dBm	-33.66 dB
793.000 MHz	806.000 MHz	6.250 kHz	794.96753 MHz	-66.97 dBm	-31.97 dB

Date: 22.JUL.2025 02:19:44

LTE Band 13 / 10MHz / 64QAM

Band Edge / 1 RB

Spectrum

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

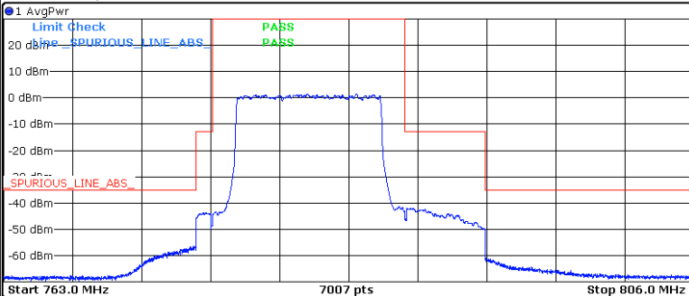
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	771.86513 MHz	-58.65 dBm	-23.65 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.72153 MHz	-50.75 dBm	-37.75 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.96489 MHz	-57.04 dBm	-44.04 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.39960 MHz	-18.14 dBm	-11.86 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.06179 MHz	-55.17 dBm	-42.17 dB
788.100 MHz	793.000 MHz	100.000 kHz	790.80455 MHz	-48.24 dBm	-35.24 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.68182 MHz	-66.91 dBm	-31.91 dB

Date: 22.JUL.2025 02:22:15

LTE Band 13 / 10MHz / 64QAM

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	774.83816 MHz	-56.35 dBm	-21.35 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.60195 MHz	-43.74 dBm	-30.74 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99995 MHz	-48.19 dBm	-35.19 dB
776.000 MHz	788.000 MHz	100.000 kHz	781.91608 MHz	-1.53 dBm	-28.47 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.02992 MHz	-45.99 dBm	-32.99 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.32762 MHz	-42.16 dBm	-29.16 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.01948 MHz	-61.06 dBm	-26.06 dB

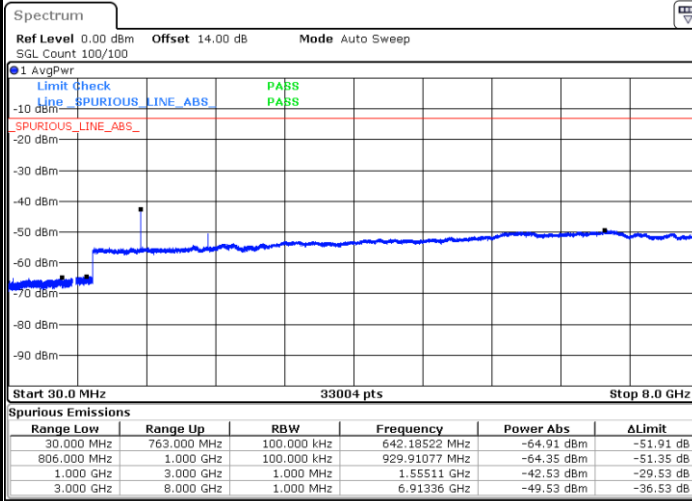
Date: 22.JUL.2025 02:24:46



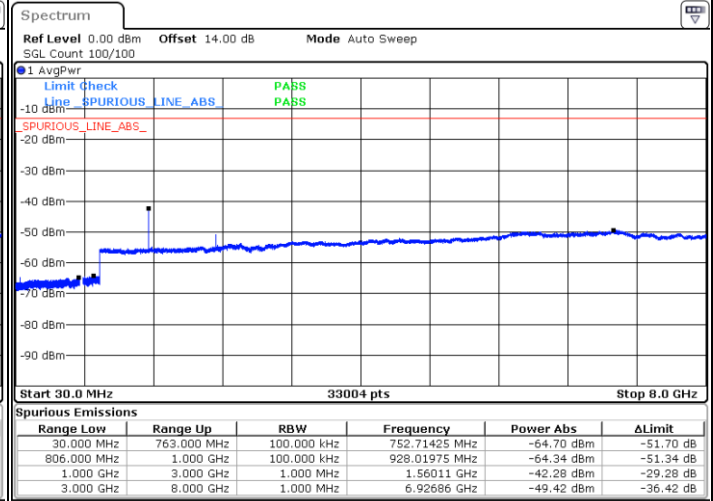
Conducted Spurious Emission

LTE Band 13 / 5MHz

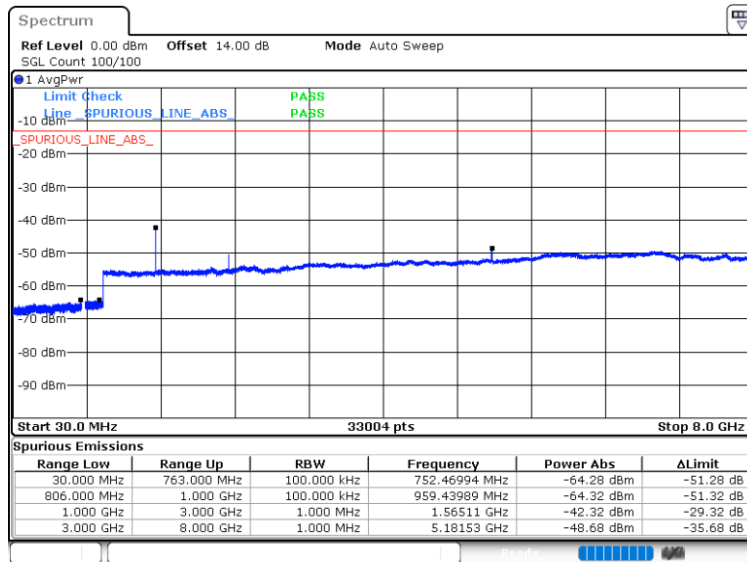
Lowest Channel / QPSK



Middle Channel / QPSK



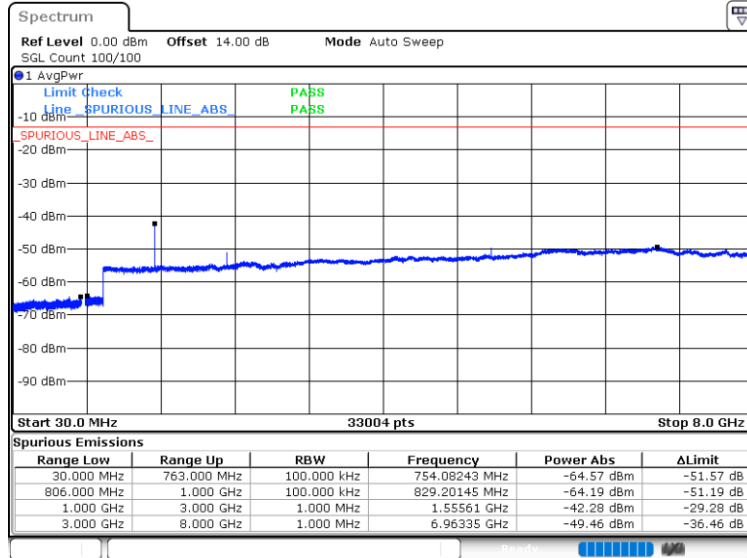
Highest Channel / QPSK





LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 22.JUL.2025 02:25:46

**Frequency Stability**

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0068	PASS
40	Normal Voltage	0.0072	
30	Normal Voltage	0.0018	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0074	
0	Normal Voltage	0.0064	
-10	Normal Voltage	0.0058	
-20	Normal Voltage	0.0078	
-30	Normal Voltage	0.0063	
20	Maximum Voltage	0.0060	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0069	

Note:

1. Normal Voltage =3.8 V. ; Minimum Voltage =3.4 V. ; Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 5B

26dB Bandwidth

Mode	LTE Band 5B : 26dB BW(MHz)		
QPSK			
BW	3MHz+5MHz	5MHz+3MHz	5MHz+10MHz
Middle CH	8.20	8.17	14.66
BW	10MHz+5MHz	10MHz+10MHz	N/A
Middle CH	14.72	19.74	-

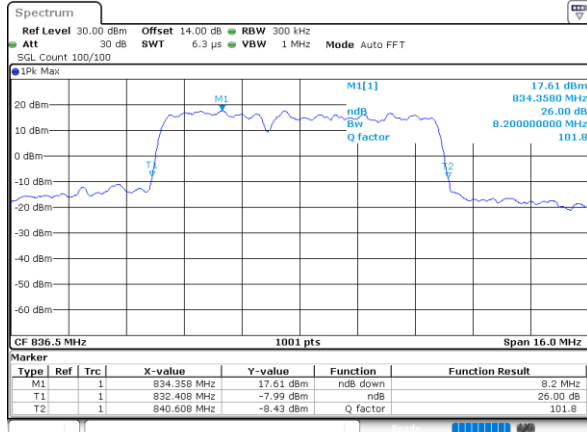
Mode	LTE Band 5B : 26dB BW(MHz)		
16QAM			
BW	3MHz+5MHz	5MHz+3MHz	5MHz+10MHz
Middle CH	8.22	8.22	14.66
BW	10MHz+5MHz	10MHz+10MHz	N/A
Middle CH	14.75	19.78	-



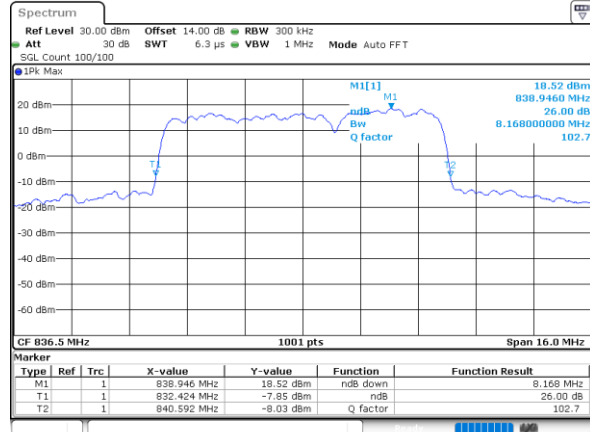
LTE Band 5B

QPSK

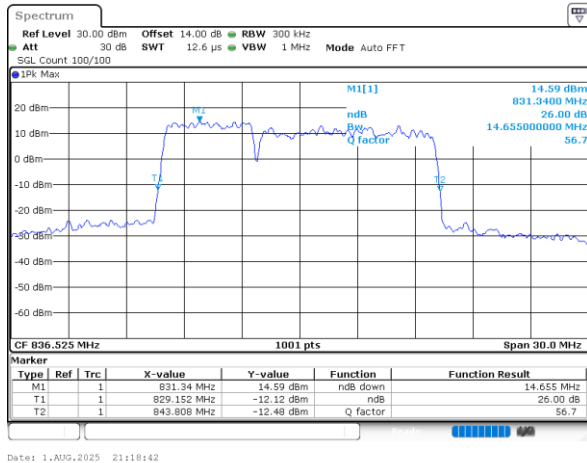
Middle Channel / 3MHz+5MHz



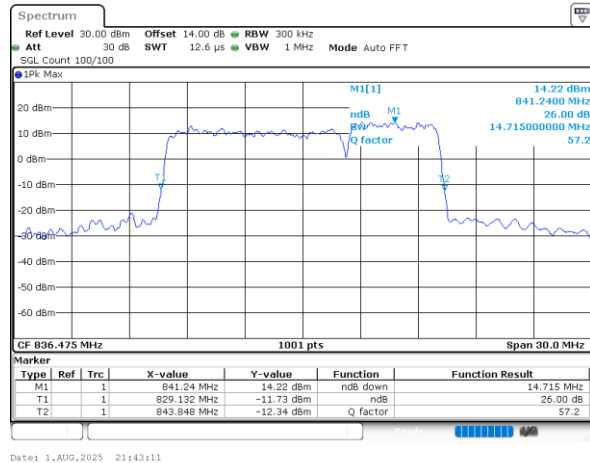
Middle Channel / 5MHz+3MHz



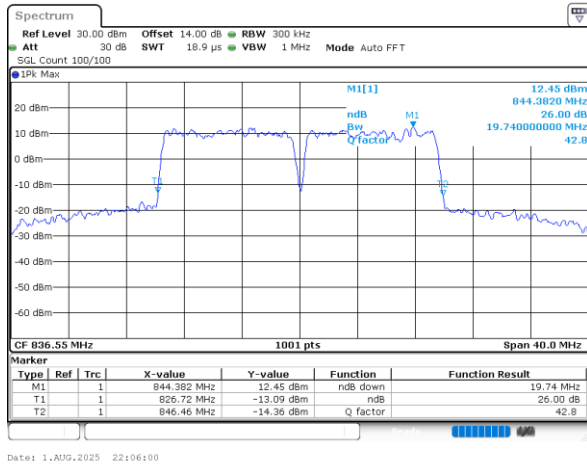
Middle Channel / 5MHz+10MHz



Middle Channel / 10MHz+5MHz



Middle Channel / 10MHz+10MHz



N/A