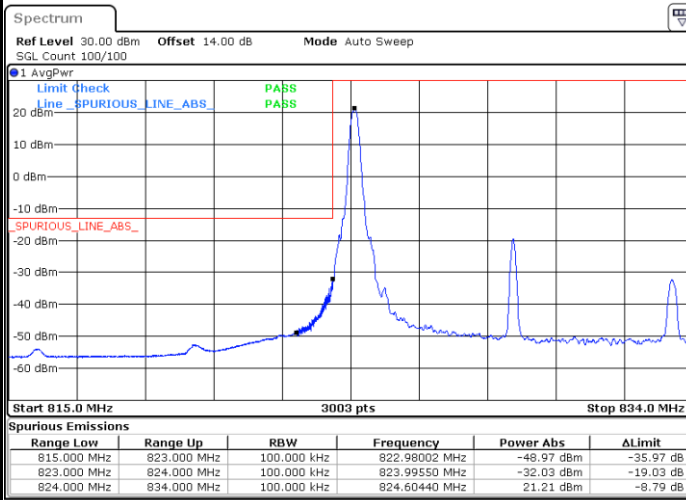


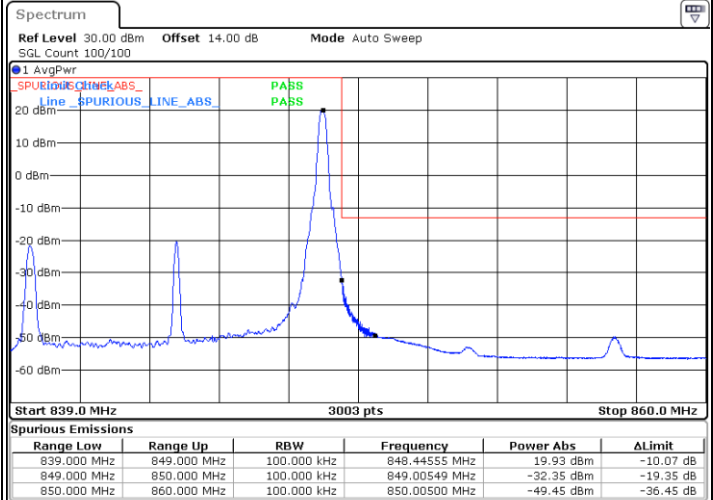


LTE Band 5 / 10MHz / QPSK

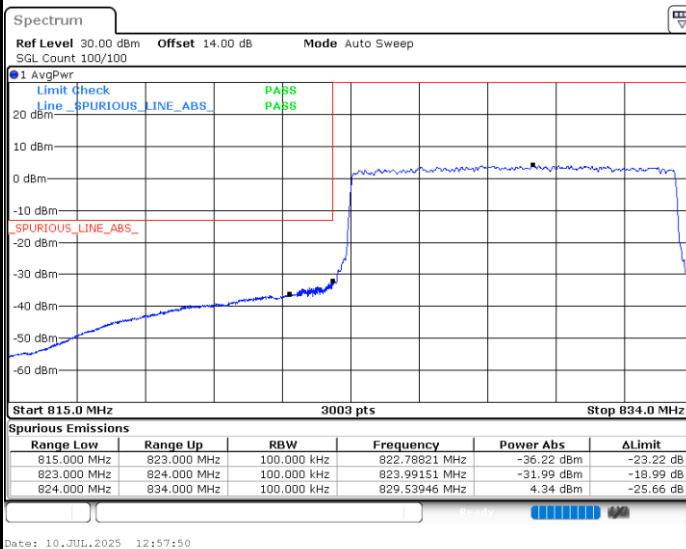
Lowest Band Edge / 1RB



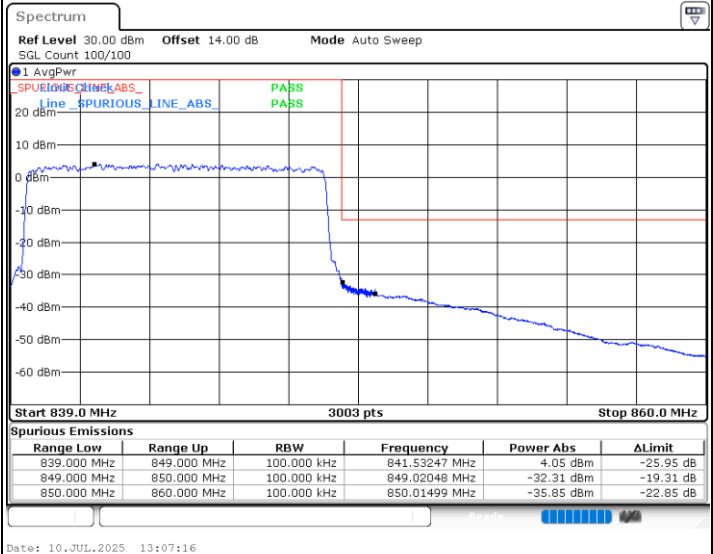
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



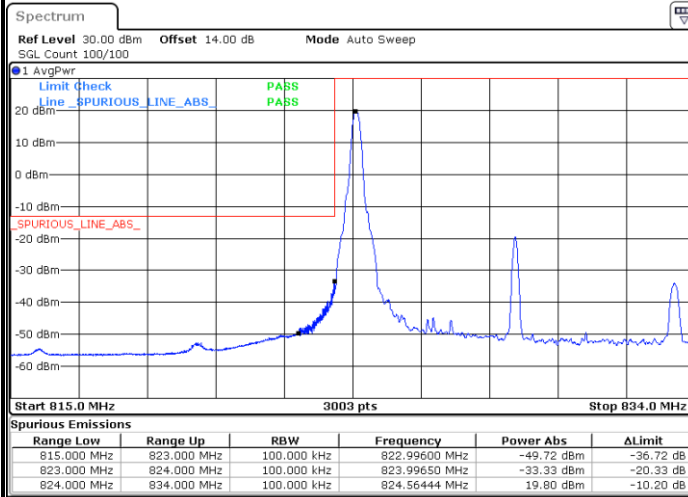
Highest Band Edge / Full RB



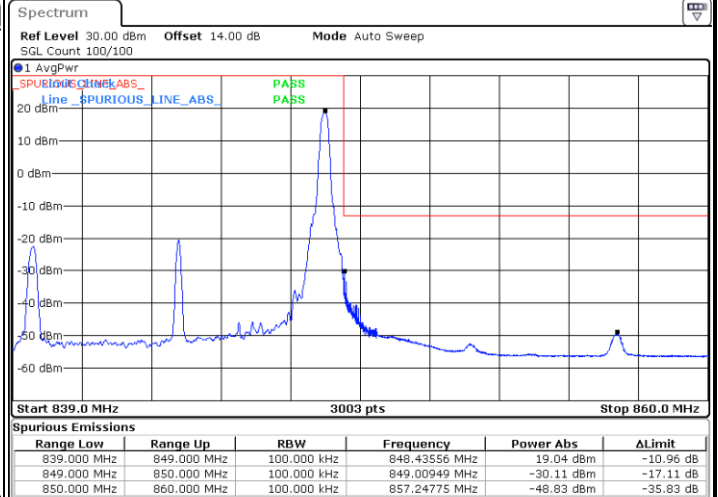


LTE Band 5 / 10MHz / 16QAM

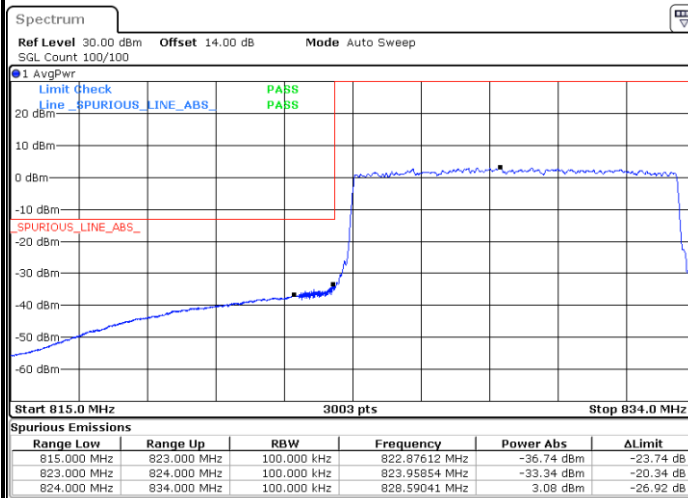
Lowest Band Edge / 1 RB



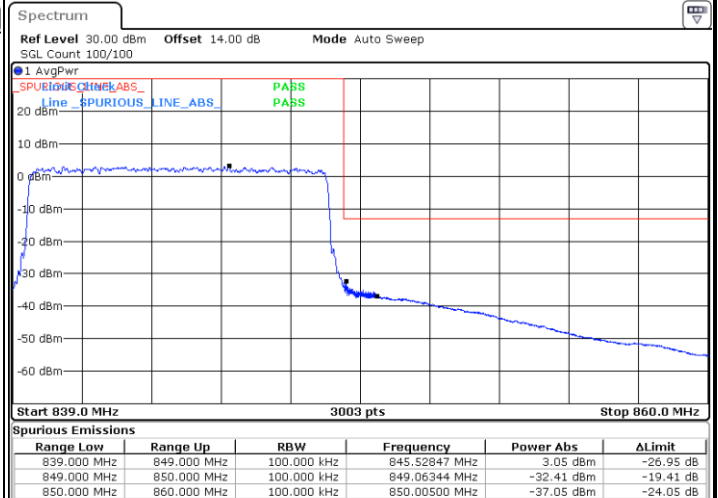
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



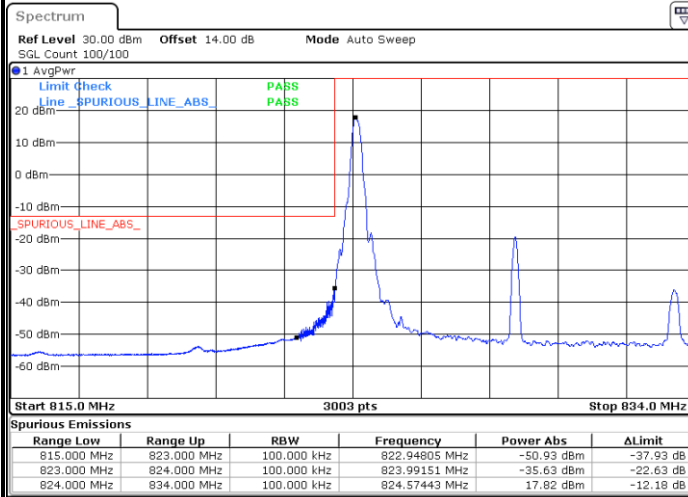
Highest Band Edge / Full RB



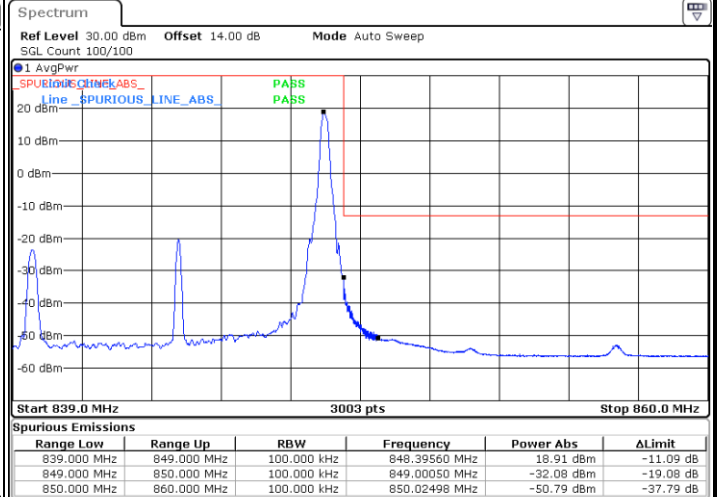


LTE Band 5 / 10MHz / 64QAM

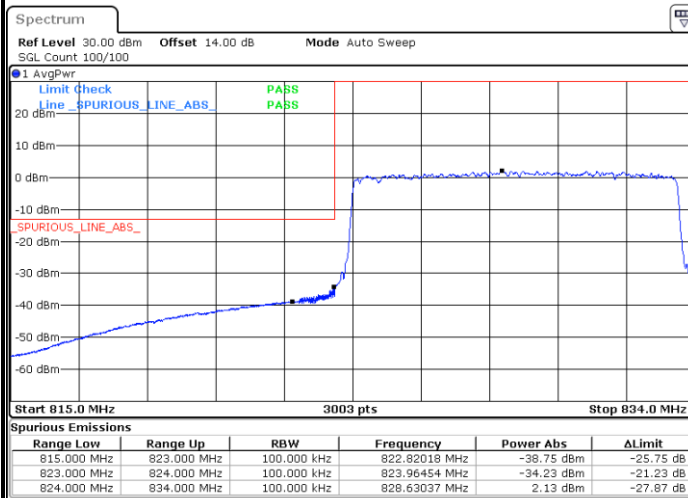
Lowest Band Edge / 1 RB



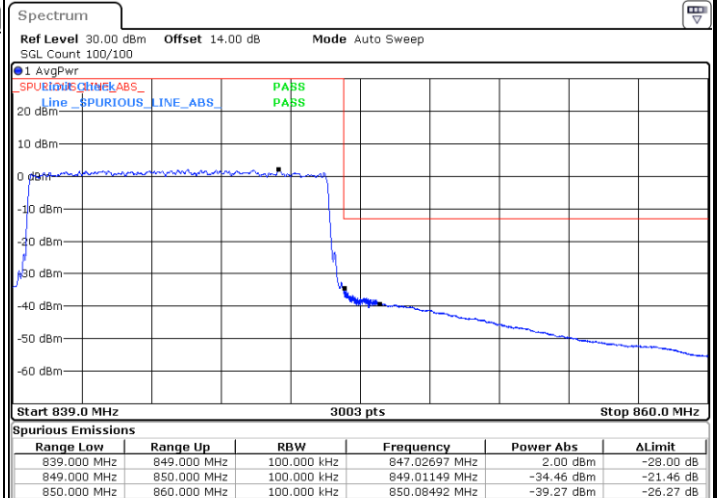
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

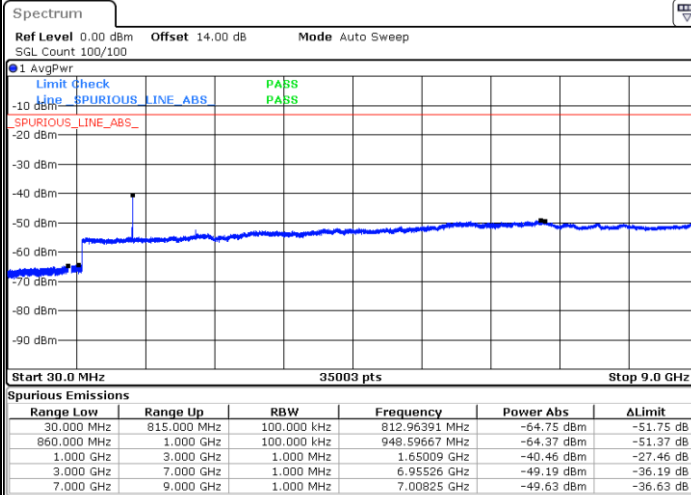




Conducted Spurious Emission

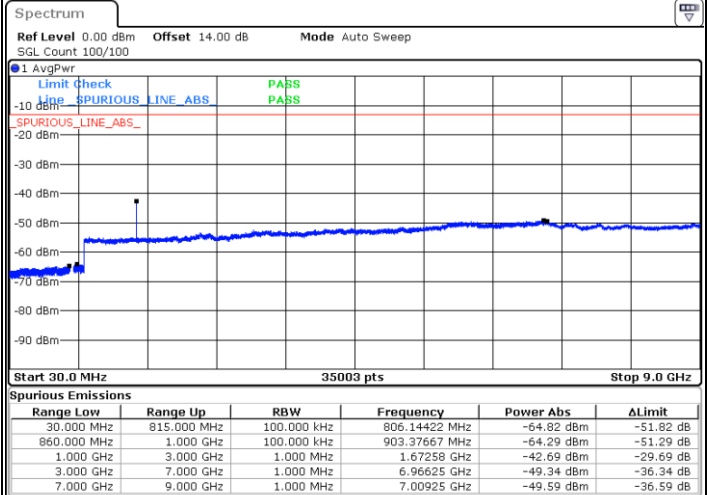
LTE Band 5 / 1.4MHz

Lowest Channel / QPSK



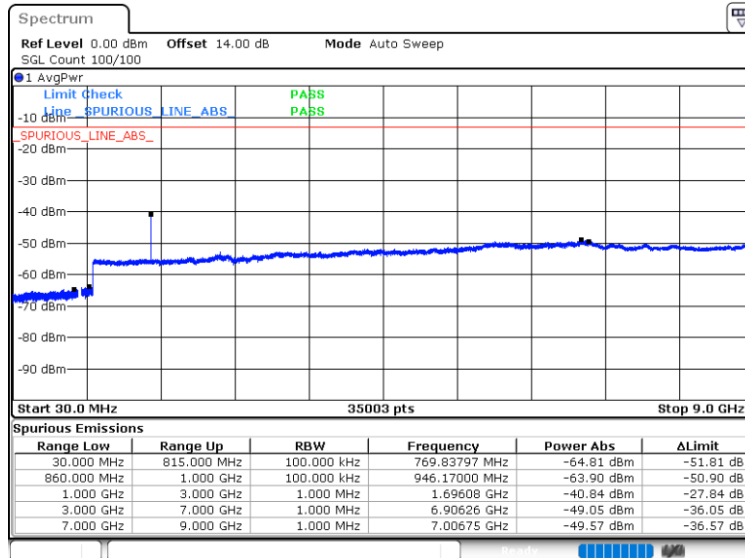
Date: 10.JUL.2025 11:07:23

Middle Channel / QPSK



Date: 10.JUL.2025 11:08:18

Highest Channel / QPSK

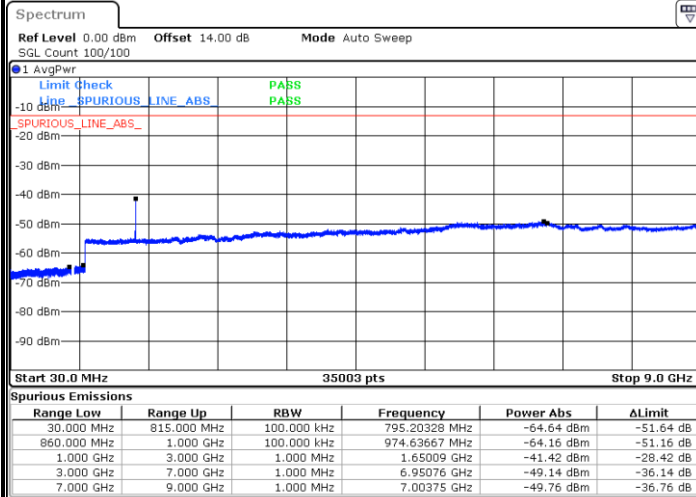


Date: 10.JUL.2025 11:15:18



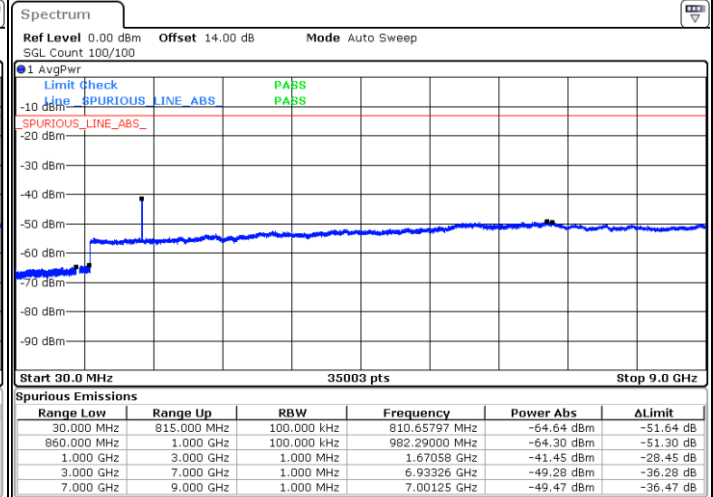
LTE Band 5 / 3MHz

Lowest Channel / QPSK



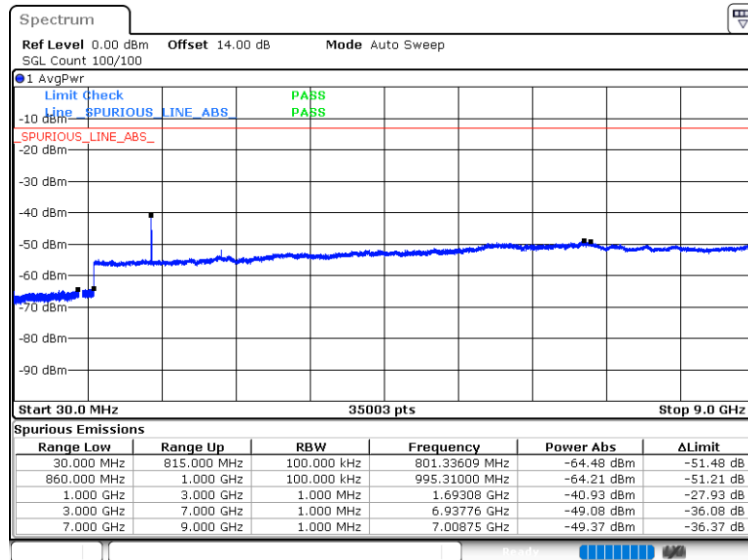
Date: 10.JUL.2025 11:24:05

Middle Channel / QPSK



Date: 10.JUL.2025 12:27:34

Highest Channel / QPSK

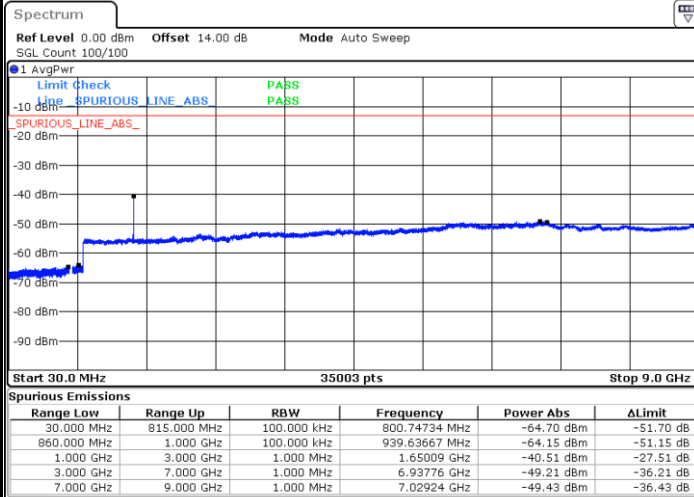


Date: 10.JUL.2025 12:34:45



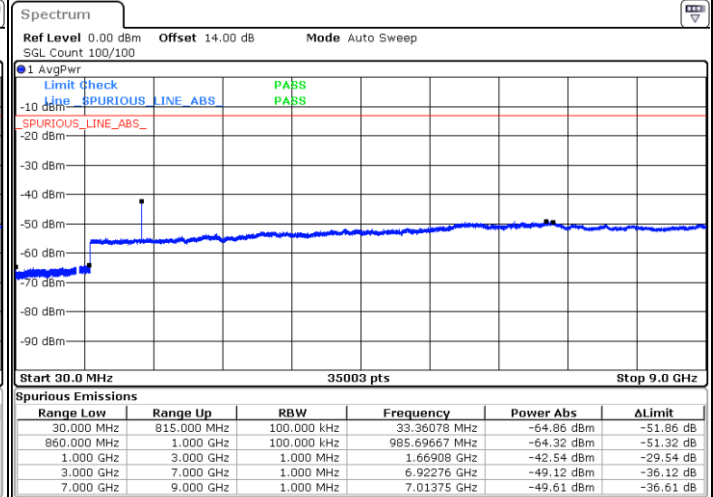
LTE Band 5 / 5MHz

Lowest Channel / QPSK



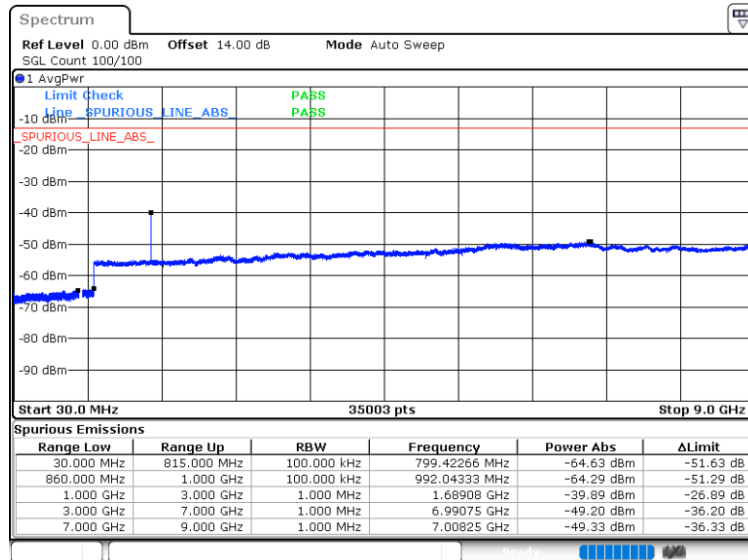
Date: 10.JUL.2025 12:45:26

Middle Channel / QPSK



Date: 10.JUL.2025 12:46:26

Highest Channel / QPSK

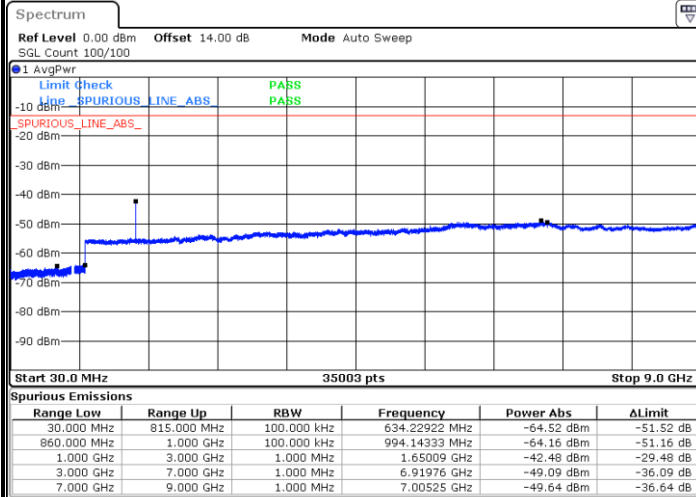


Date: 10.JUL.2025 12:53:37



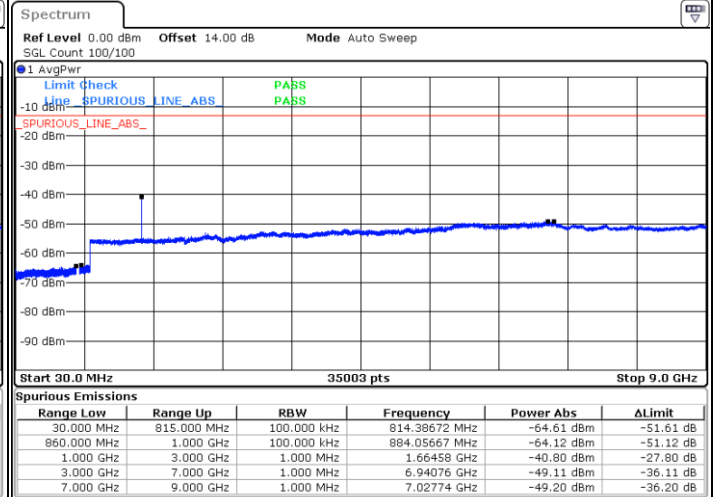
LTE Band 5 / 10MHz

Lowest Channel / QPSK



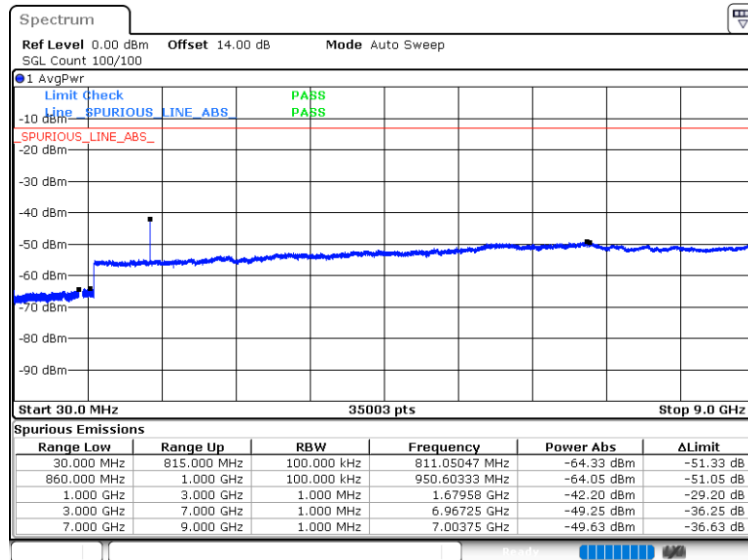
Date: 10.JUL.2025 13:00:20

Middle Channel / QPSK



Date: 10.JUL.2025 13:01:20

Highest Channel / QPSK



Date: 10.JUL.2025 13:09:54

Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	≤2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0007	PASS
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0072	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0073	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0013	
-30	Normal Voltage	0.0008	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0060	

Note:

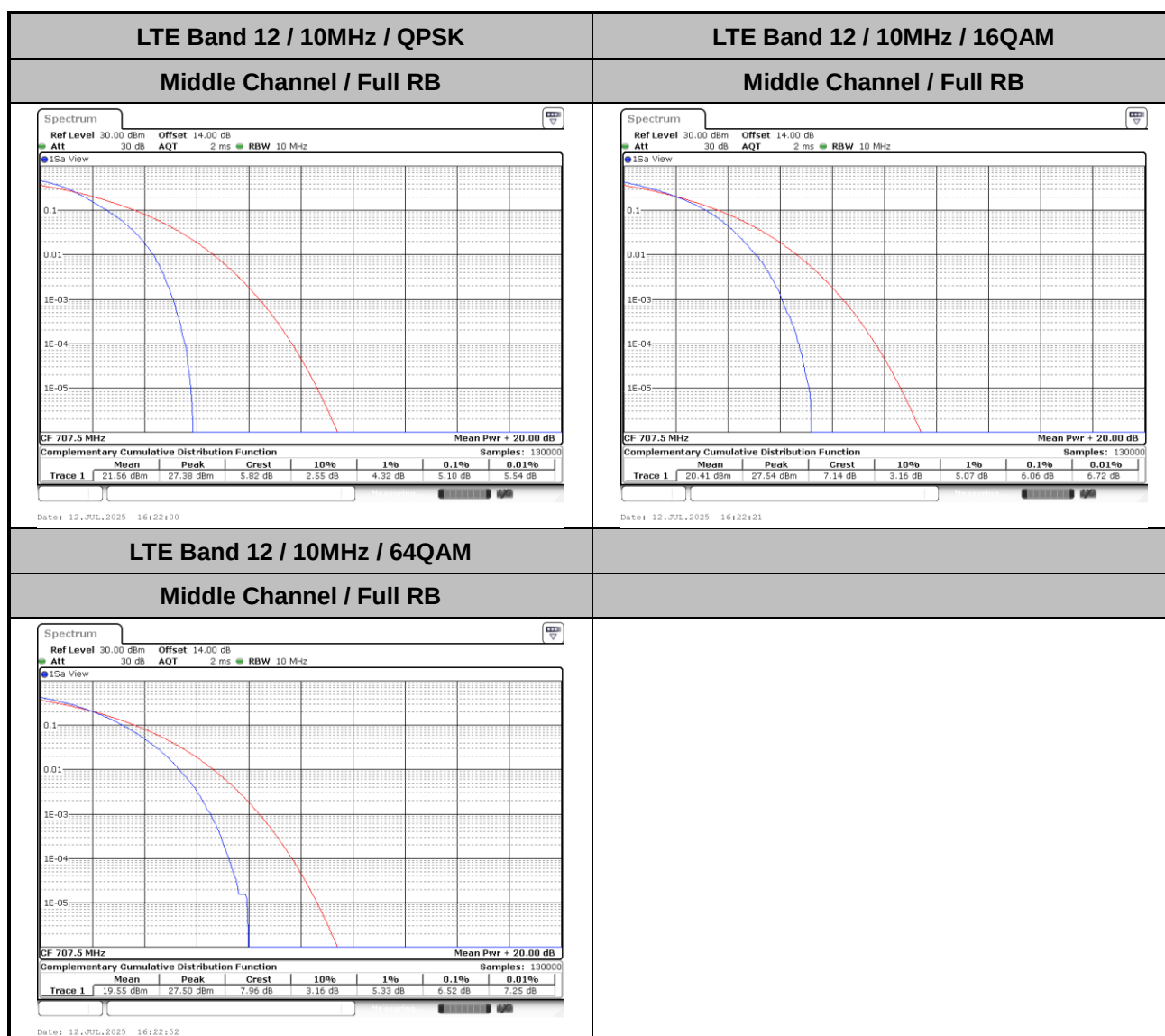
1. Normal Voltage = 7.6 V. ; Battery End Point (BEP) = 7.2 V. ; Maximum Voltage = 8.5 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 12

Peak-to-Average Ratio

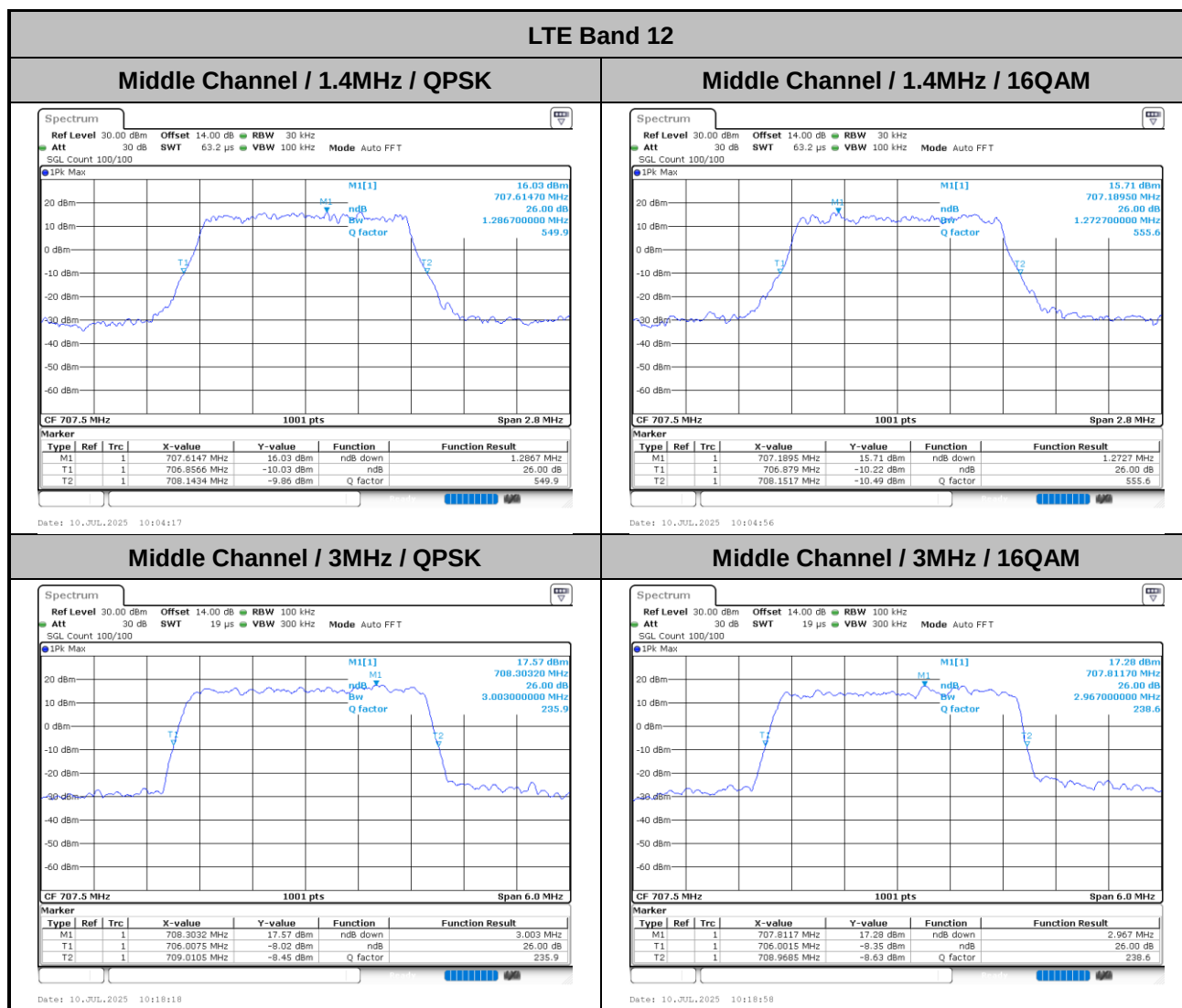
Mode	LTE Band 12 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.10	6.06	6.52	PASS





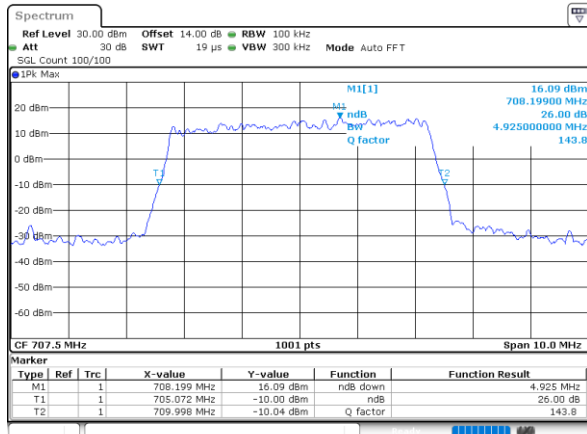
26dB Bandwidth

Mode	LTE Band 12 : 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	1.29	1.27	3.00	2.97	4.93	4.97	9.77	9.79	-	-	-	-

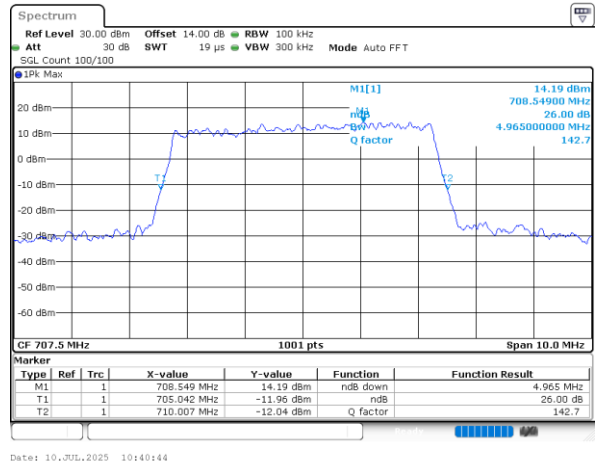




Middle Channel / 5MHz / QPSK

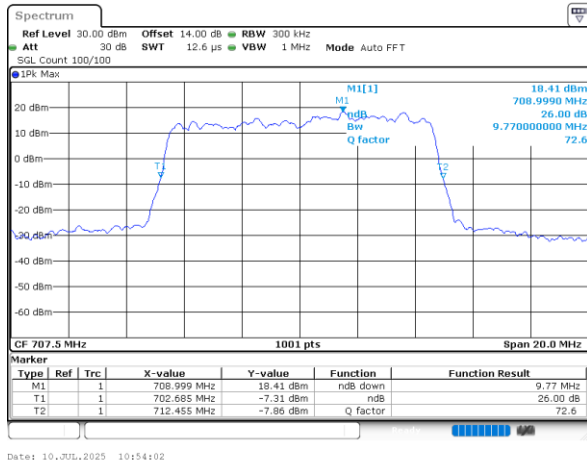


Middle Channel / 5MHz / 16QAM

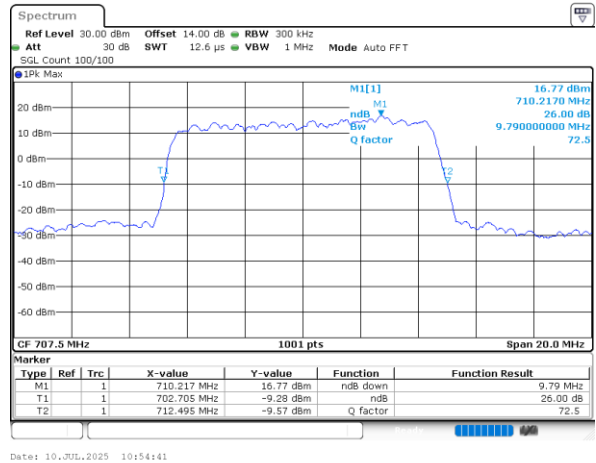


LTE Band 12

Middle Channel / 10MHz / QPSK



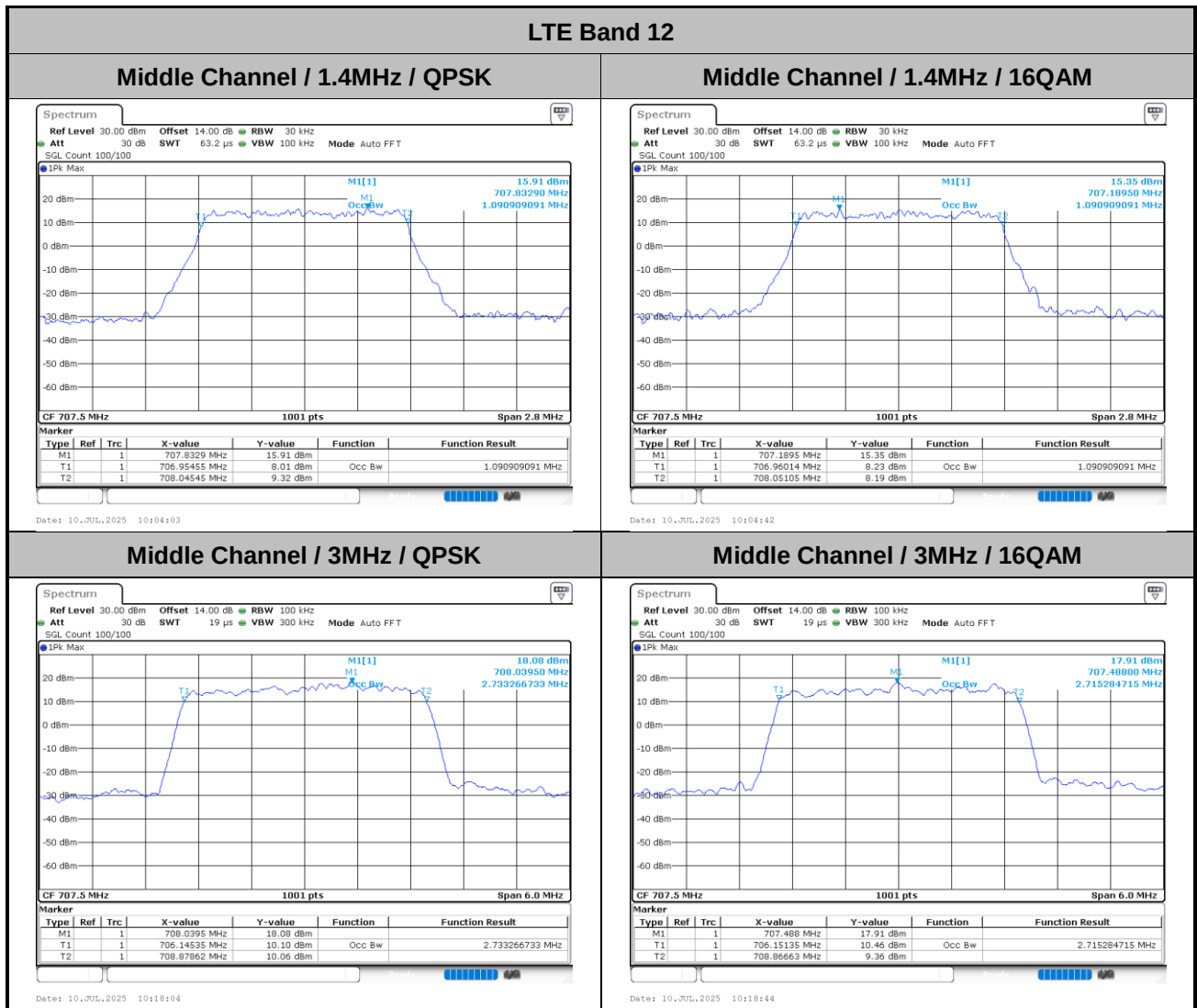
Middle Channel / 10MHz / 16QAM





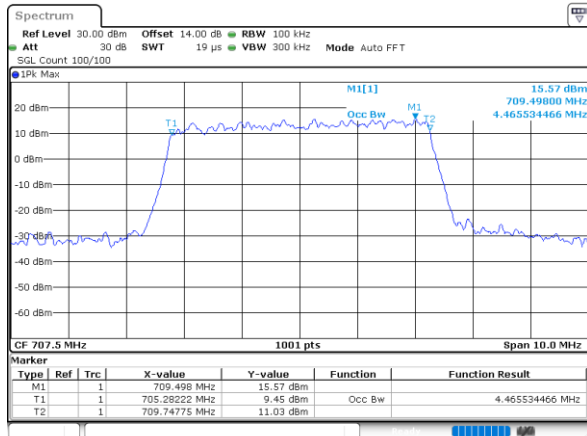
Occupied Bandwidth

Mode	LTE Band 12 : 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	1.09	1.09	2.73	2.72	4.47	4.52	8.97	8.97	-	-	-	-



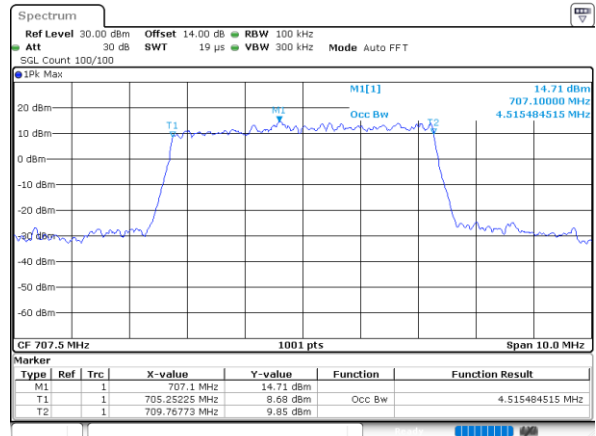


Middle Channel / 5MHz / QPSK



Date: 10.JUL.2025 10:39:51

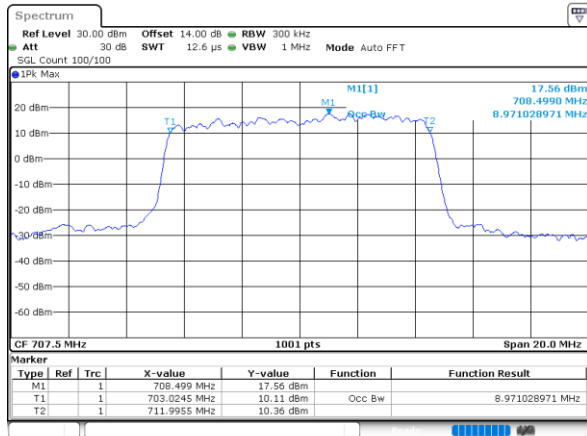
Middle Channel / 5MHz / 16QAM



Date: 10.JUL.2025 10:40:30

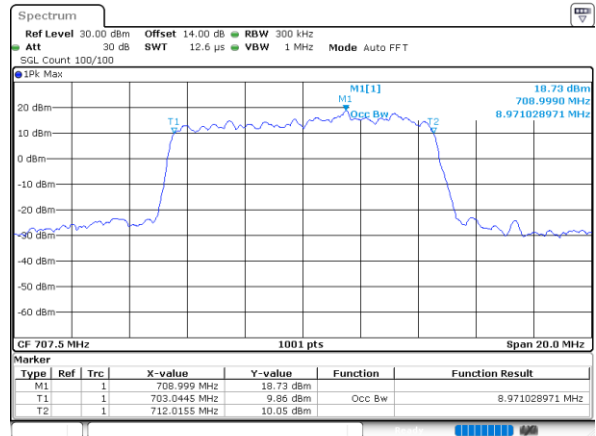
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 10.JUL.2025 10:53:48

Middle Channel / 10MHz / 16QAM



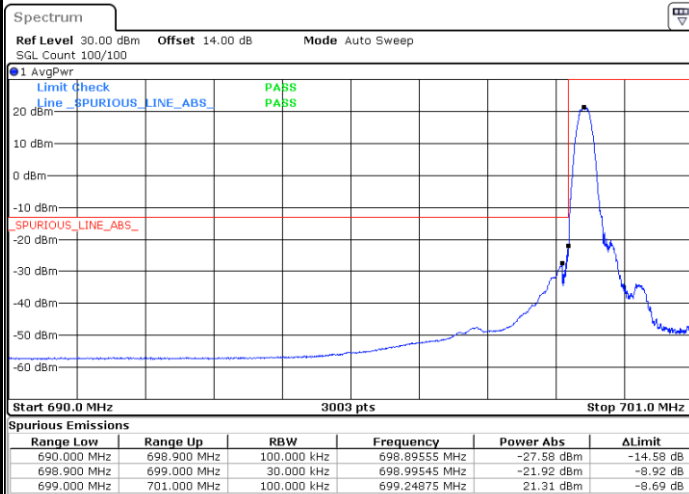
Date: 10.JUL.2025 10:54:27



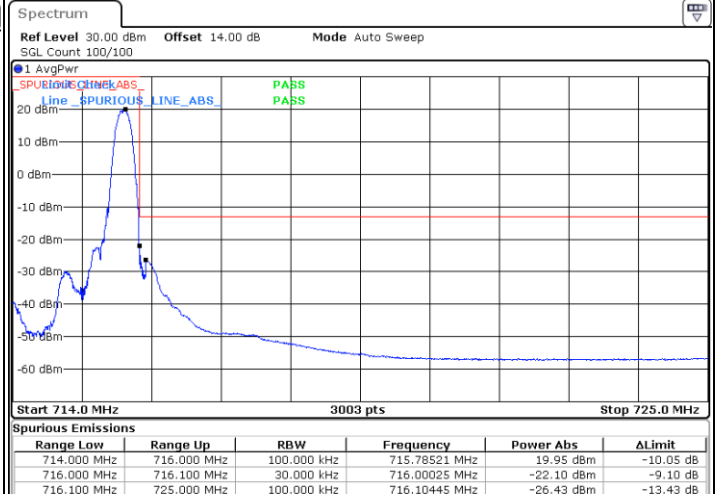
Conducted Band Edge

LTE Band 12 / 1.4MHz / QPSK

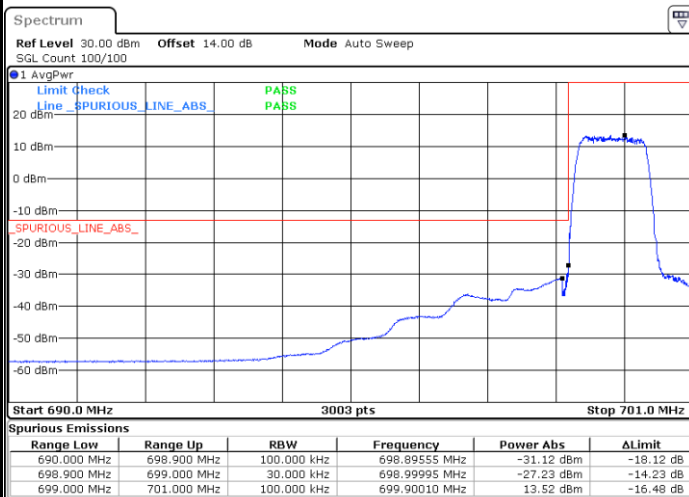
Lowest Band Edge / 1RB



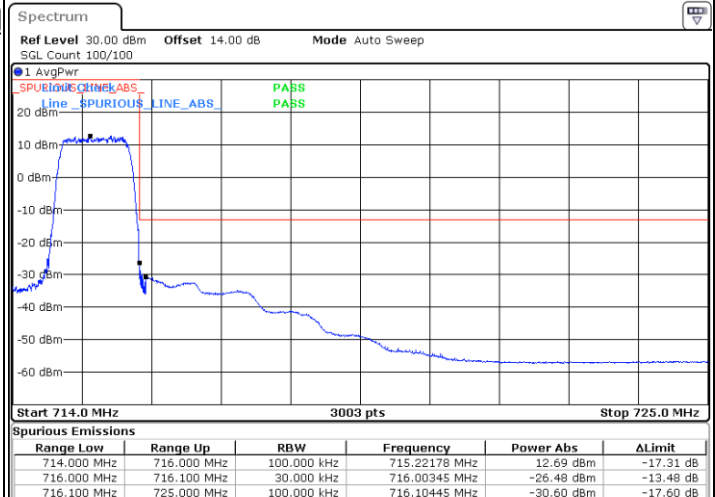
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



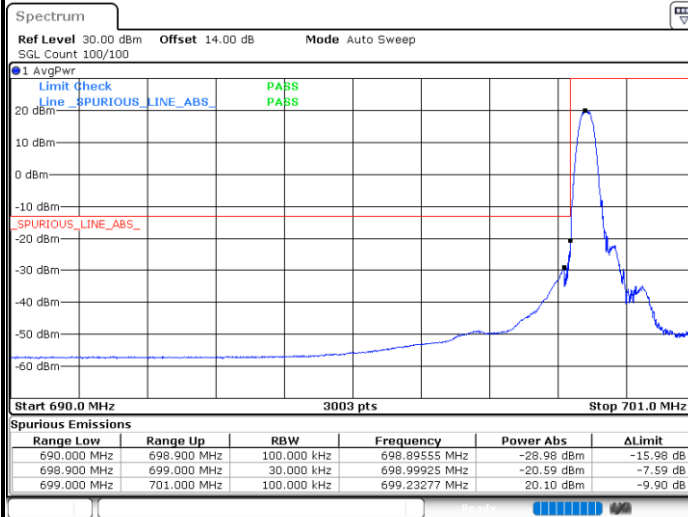
Highest Band Edge / Full RB



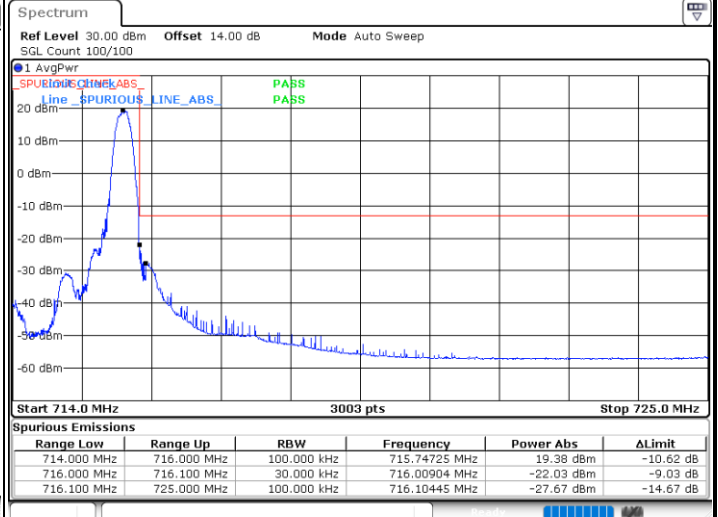


LTE Band 12 / 1.4MHz / 16QAM

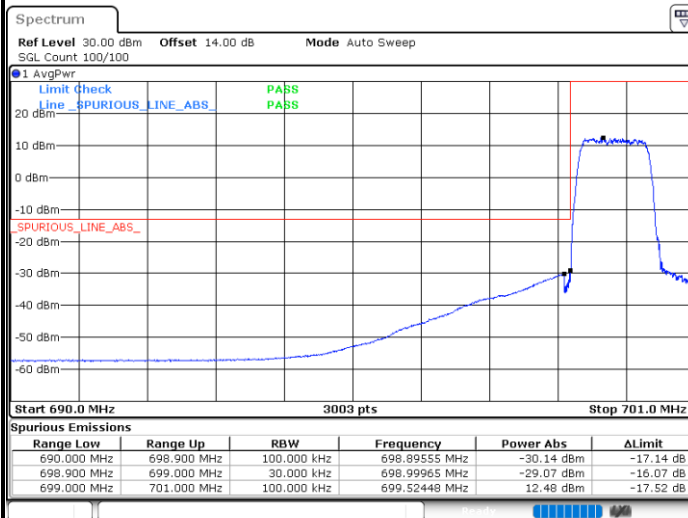
Lowest Band Edge / 1 RB



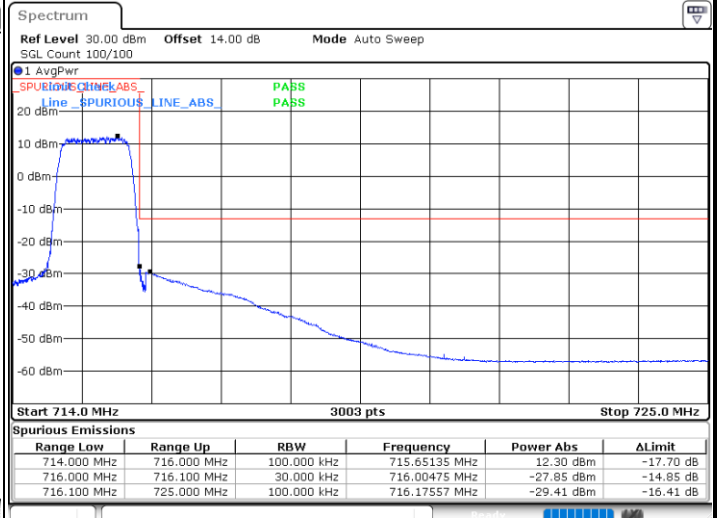
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



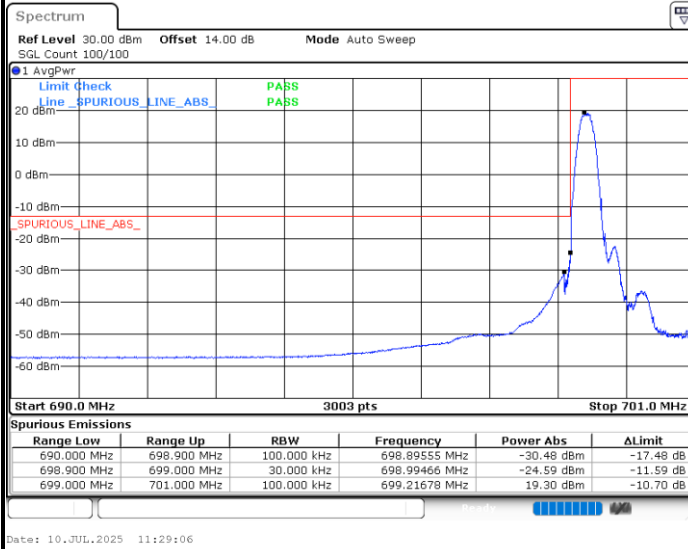
Highest Band Edge / Full RB



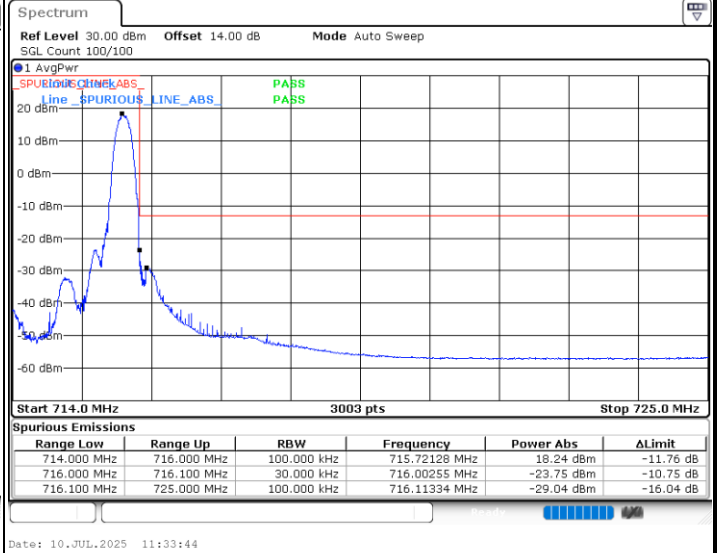


LTE Band 12 / 1.4MHz / 64QAM

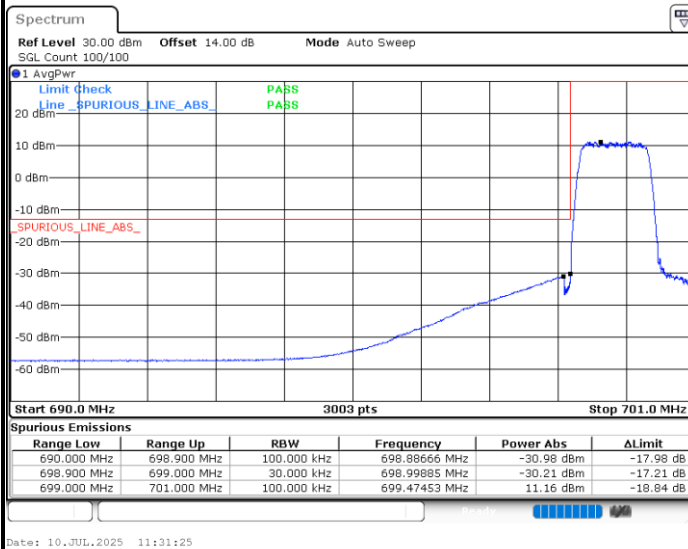
Lowest Band Edge / 1 RB



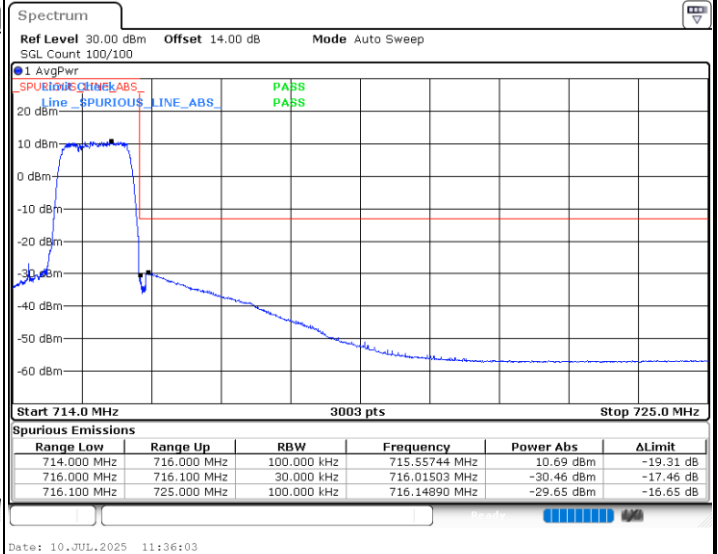
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



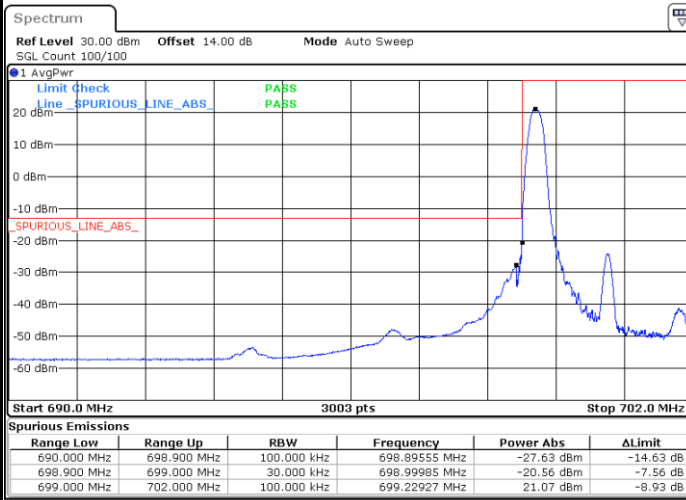
Highest Band Edge / Full RB



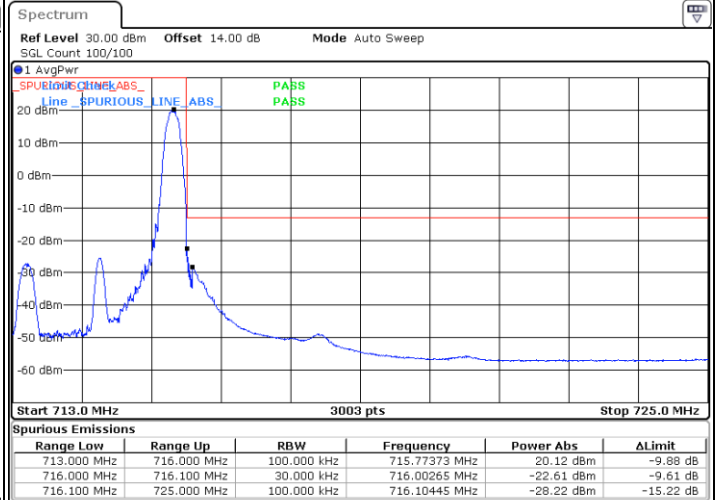


LTE Band 12 / 3MHz / QPSK

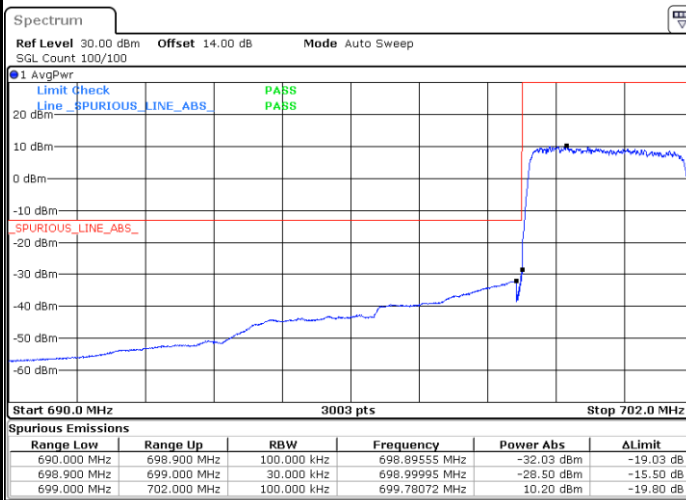
Lowest Band Edge / 1RB



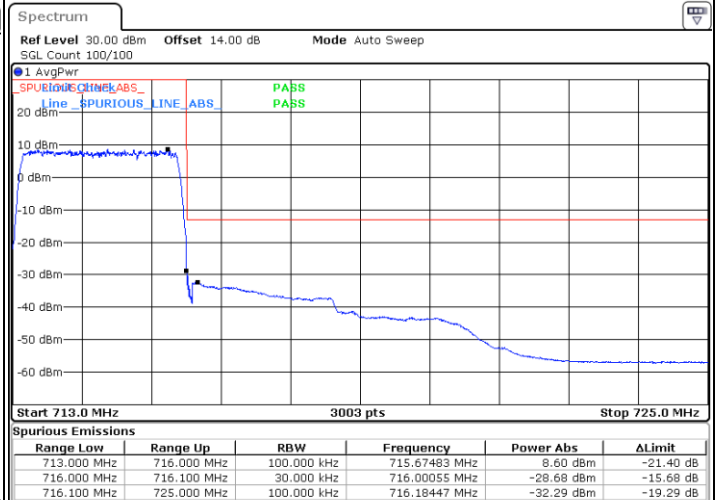
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



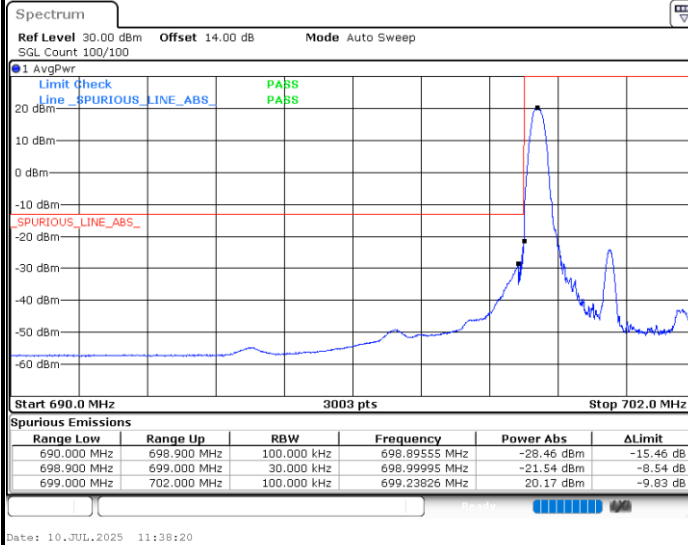
Highest Band Edge / Full RB



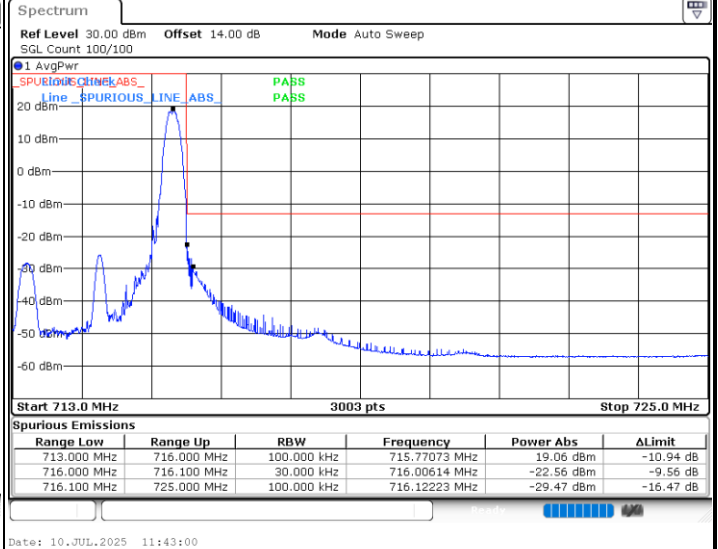


LTE Band 12 / 3MHz / 16QAM

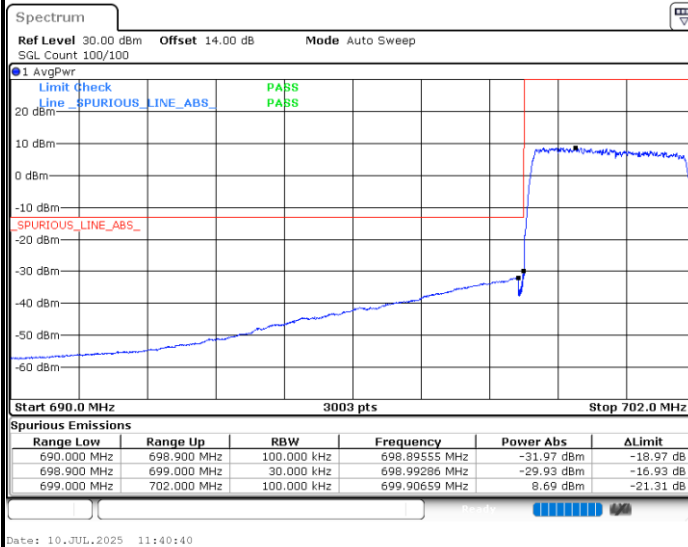
Lowest Band Edge / 1 RB



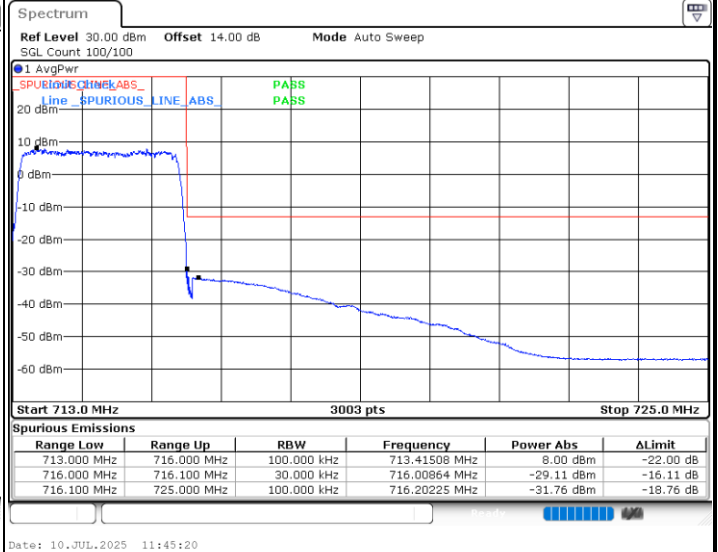
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



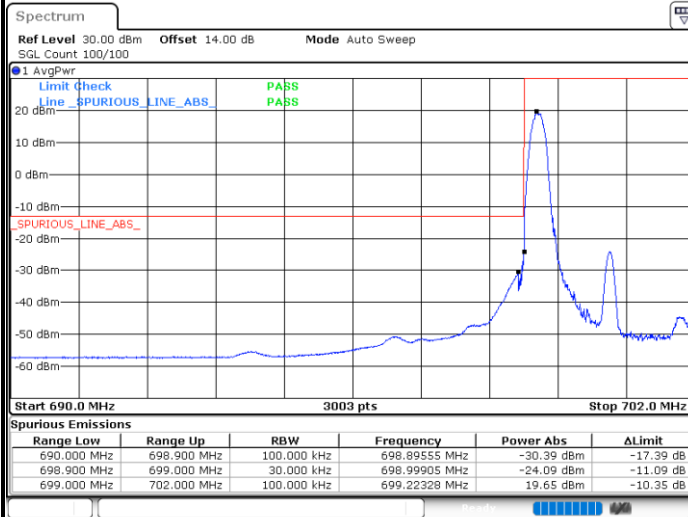
Highest Band Edge / Full RB



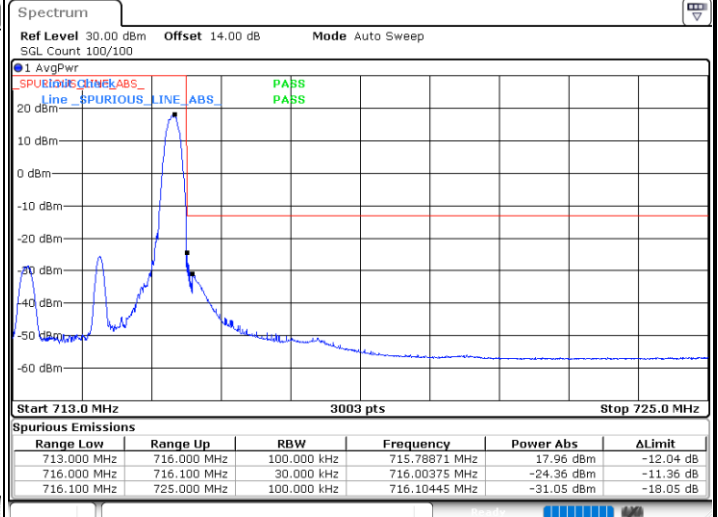


LTE Band 12 / 3MHz / 64QAM

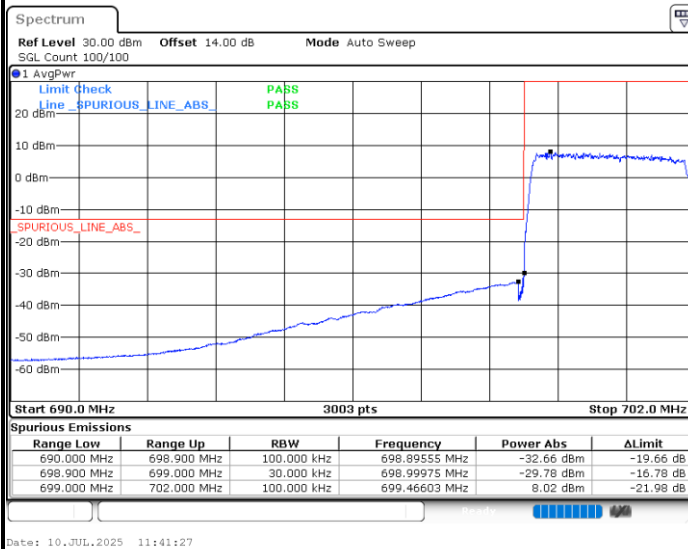
Lowest Band Edge / 1 RB



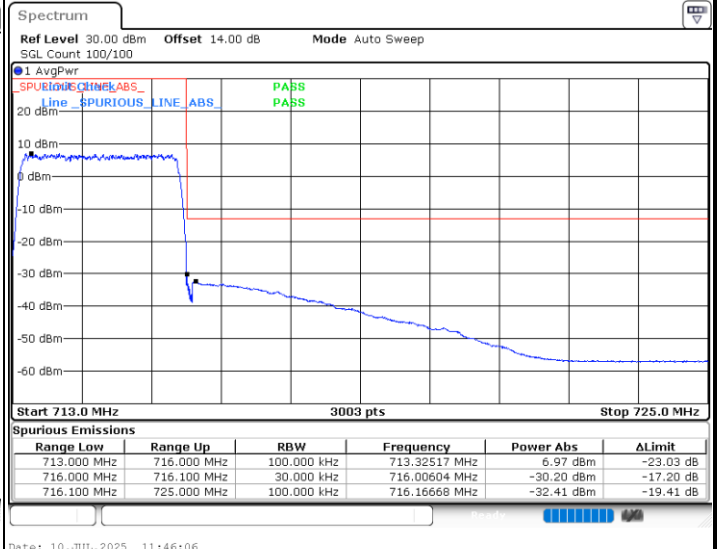
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



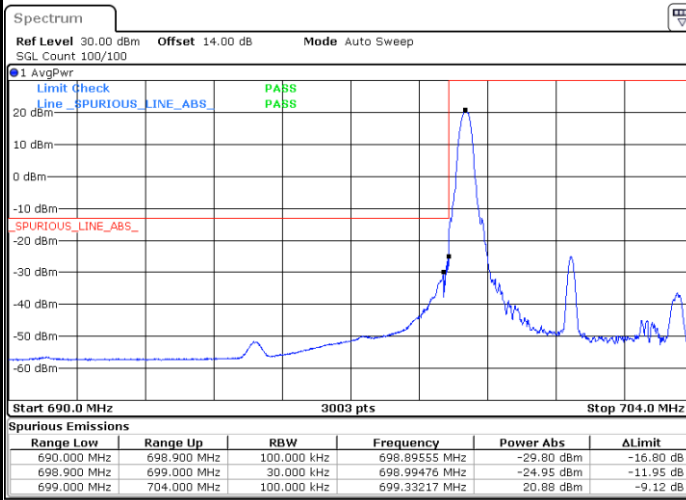
Highest Band Edge / Full RB



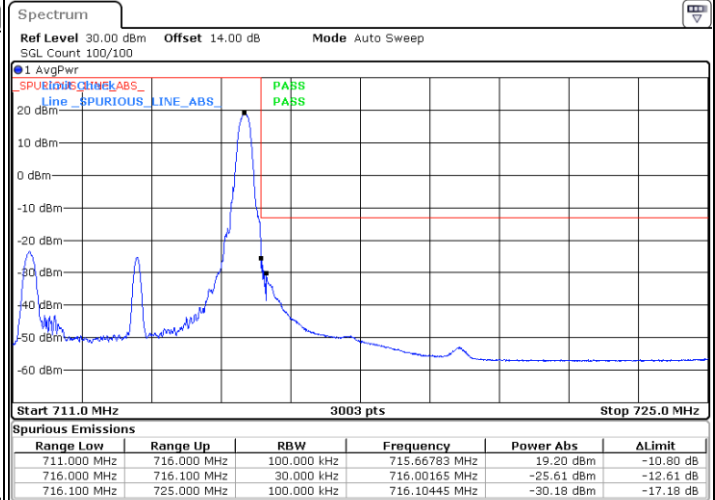


LTE Band 12 / 5MHz / QPSK

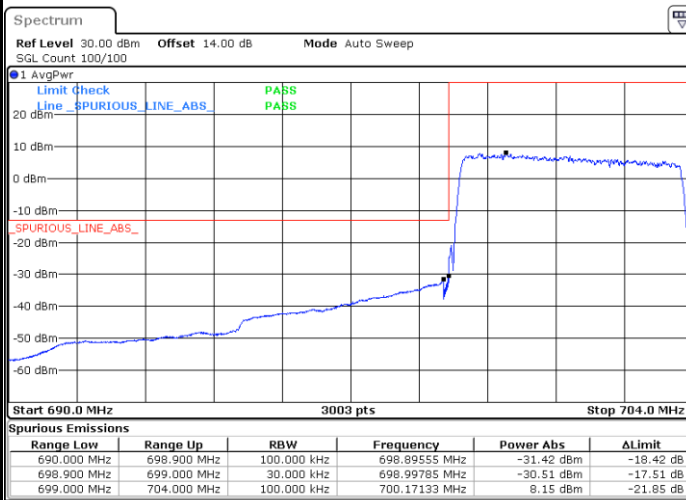
Lowest Band Edge / 1RB



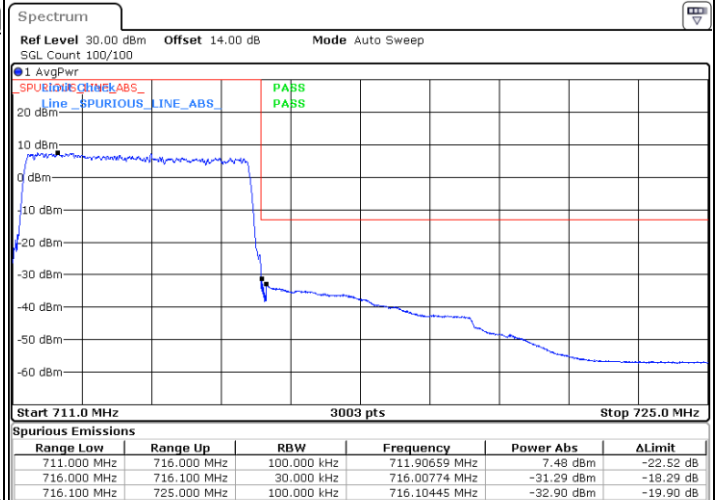
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



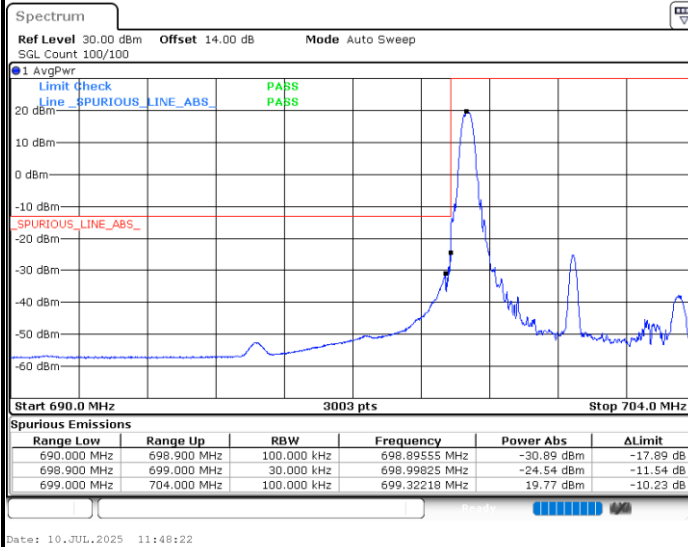
Highest Band Edge / Full RB



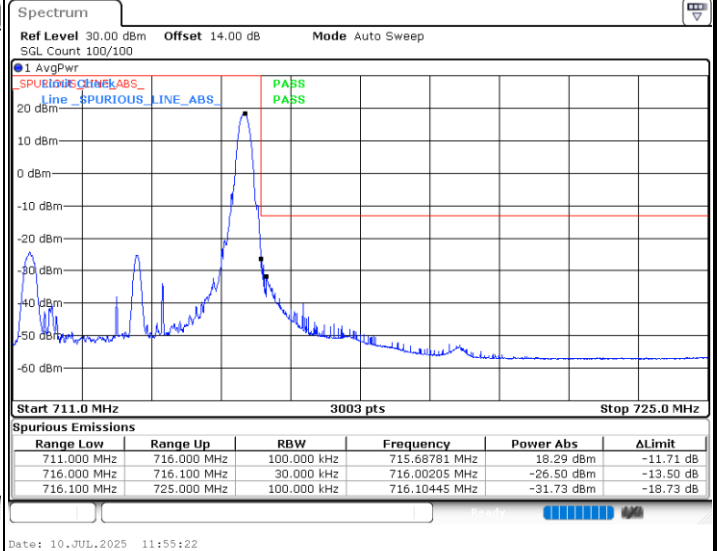


LTE Band 12 / 5MHz / 16QAM

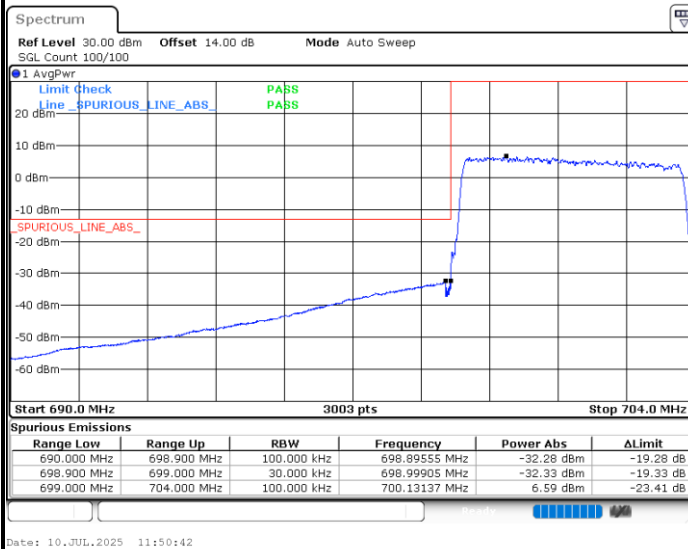
Lowest Band Edge / 1 RB



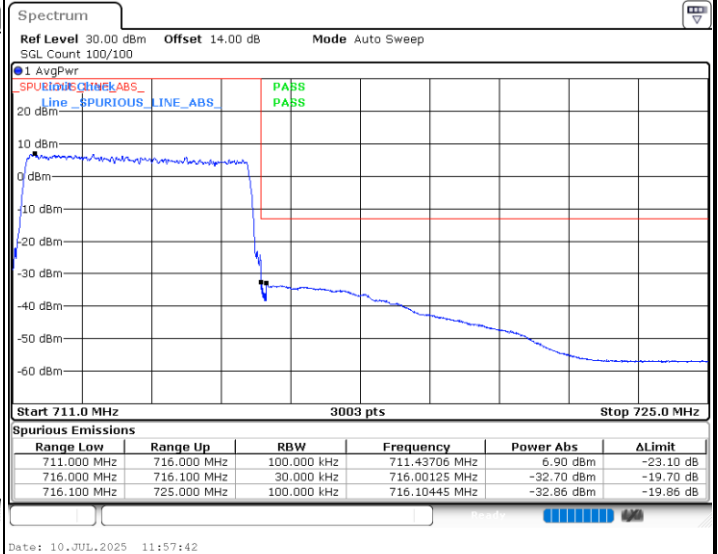
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



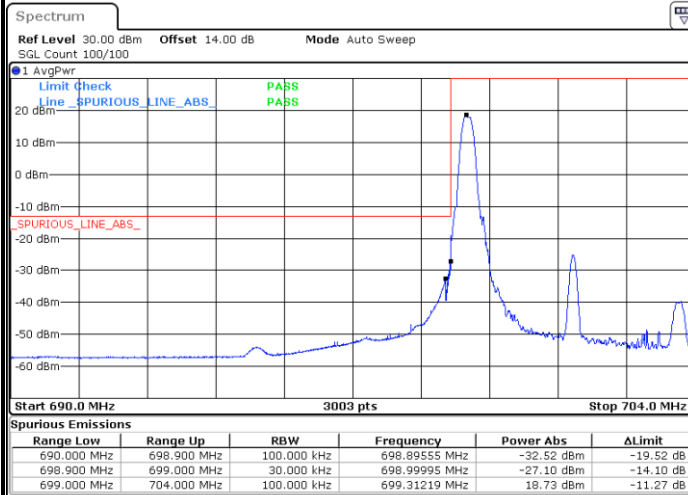
Highest Band Edge / Full RB



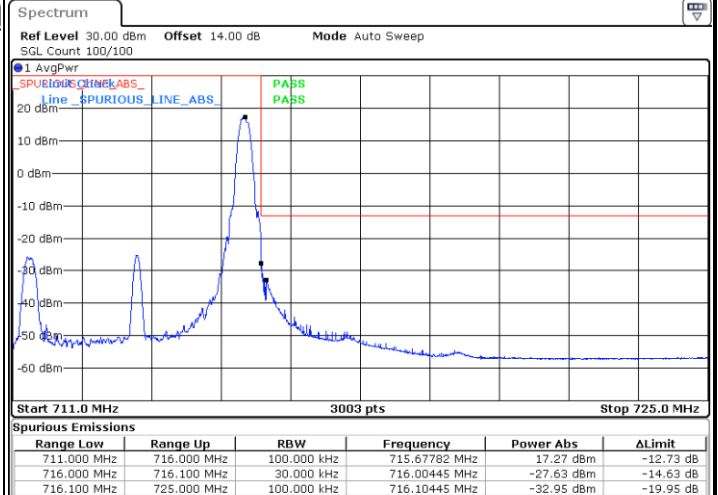


LTE Band 12 / 5MHz / 64QAM

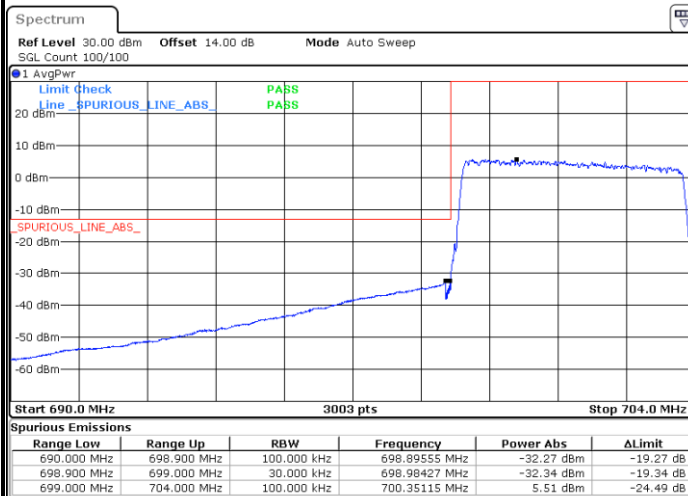
Lowest Band Edge / 1 RB



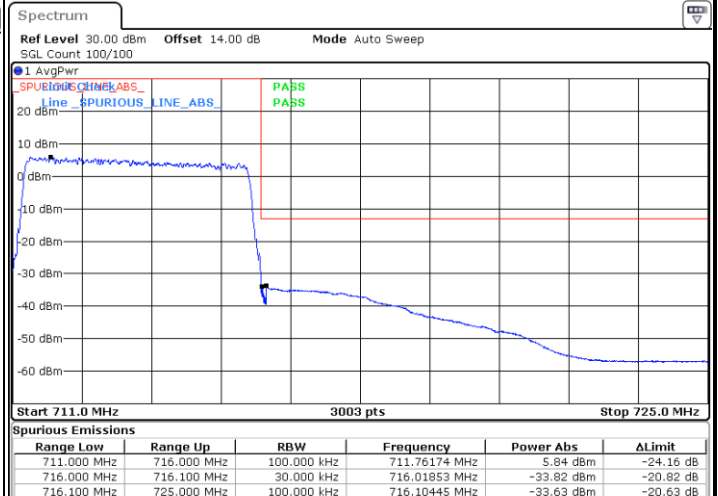
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



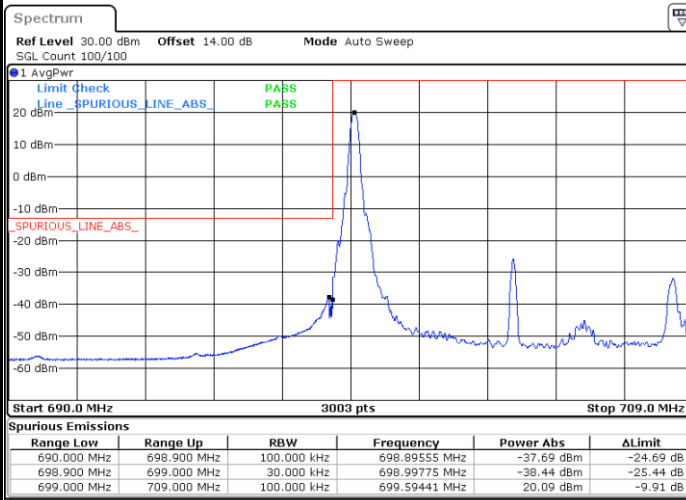
Highest Band Edge / Full RB



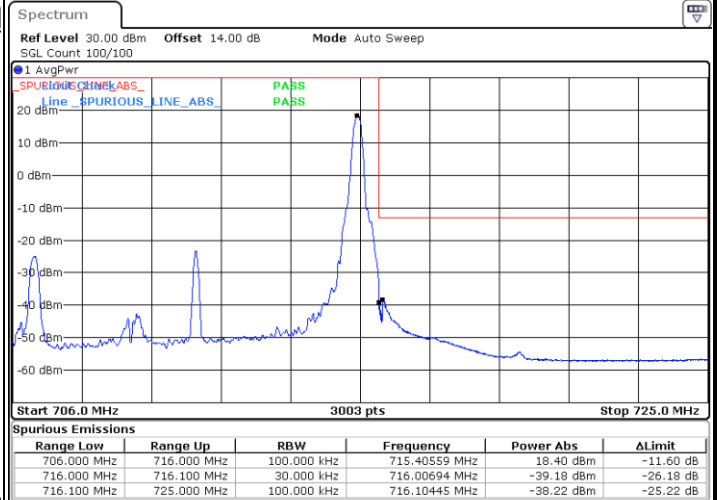


LTE Band 12 / 10MHz / QPSK

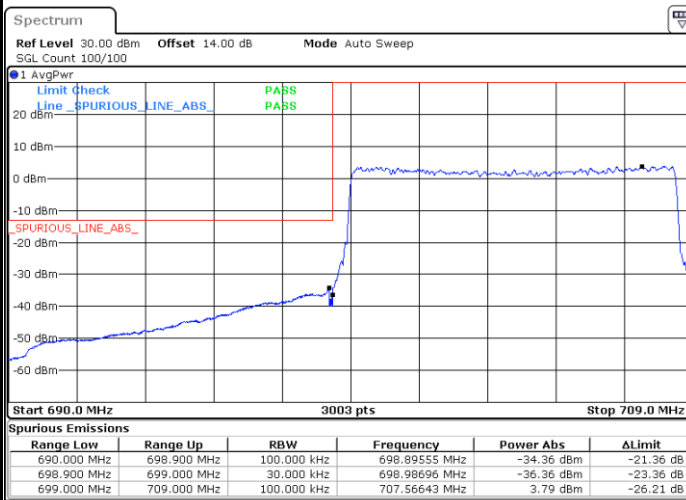
Lowest Band Edge / 1RB



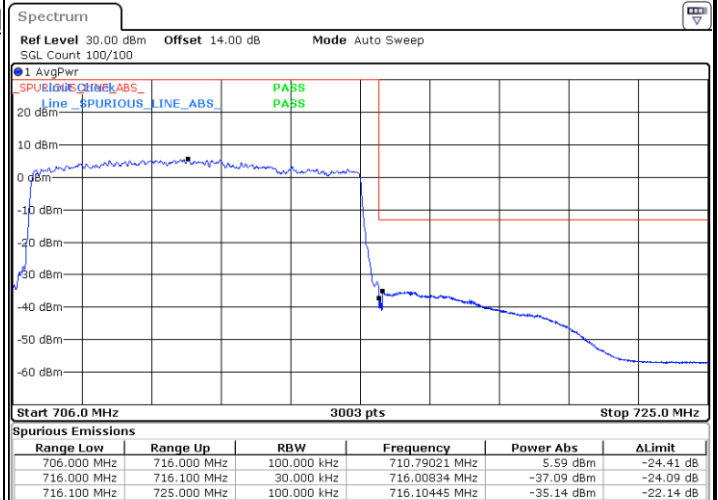
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



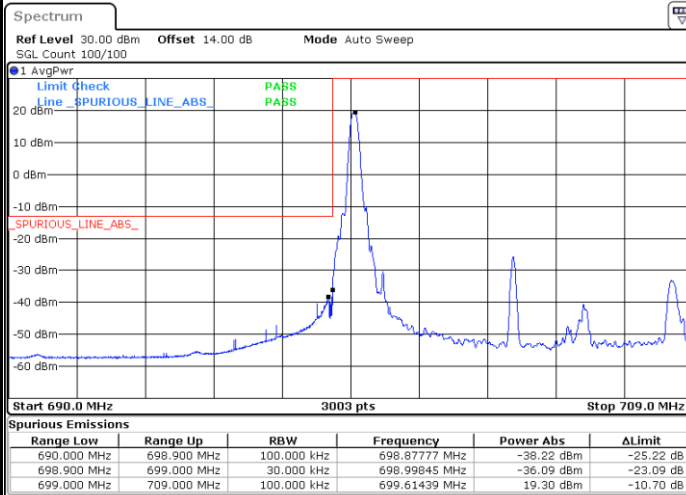
Highest Band Edge / Full RB



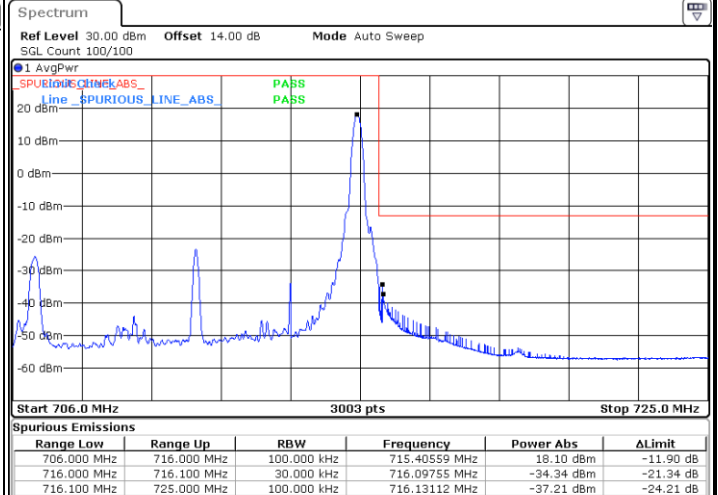


LTE Band 12 / 10MHz / 16QAM

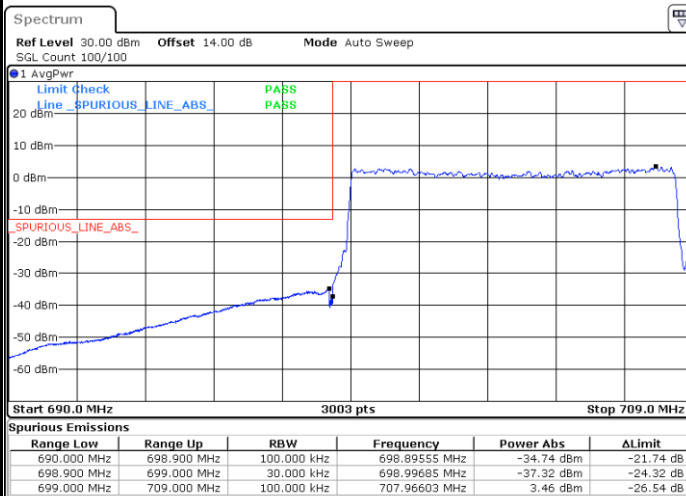
Lowest Band Edge / 1 RB



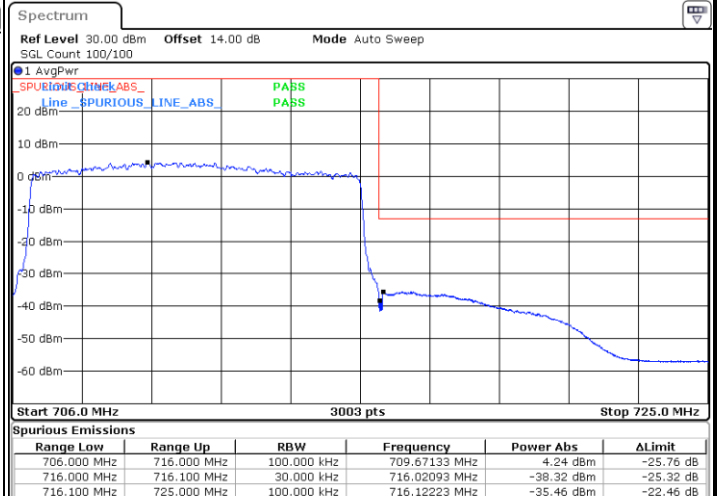
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



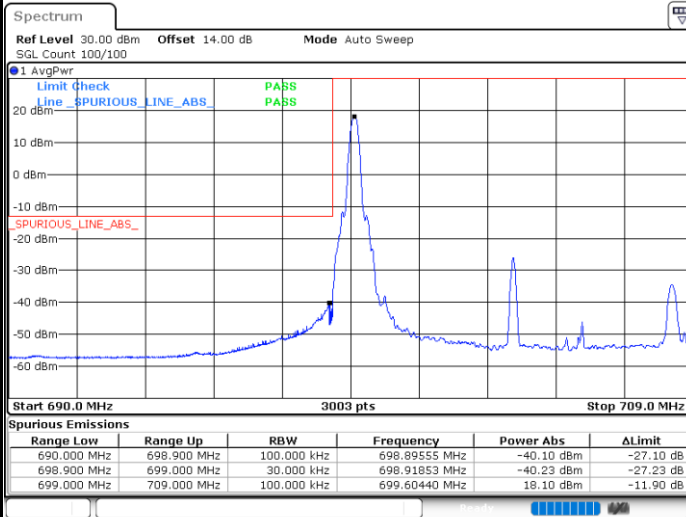
Highest Band Edge / Full RB



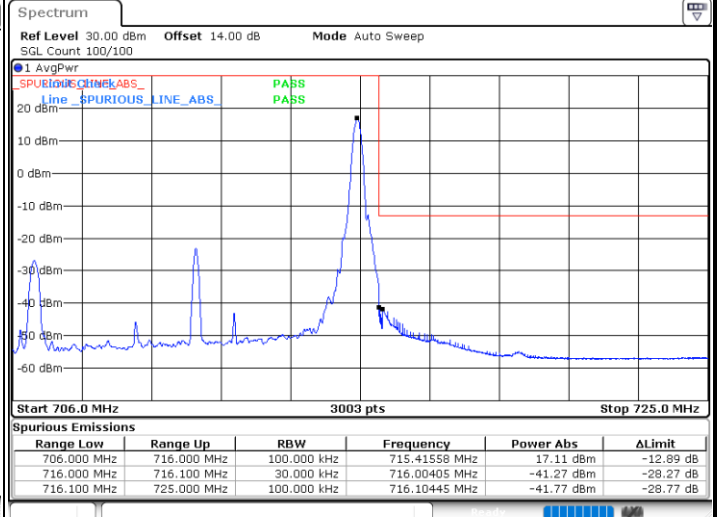


LTE Band 12 / 10MHz / 64QAM

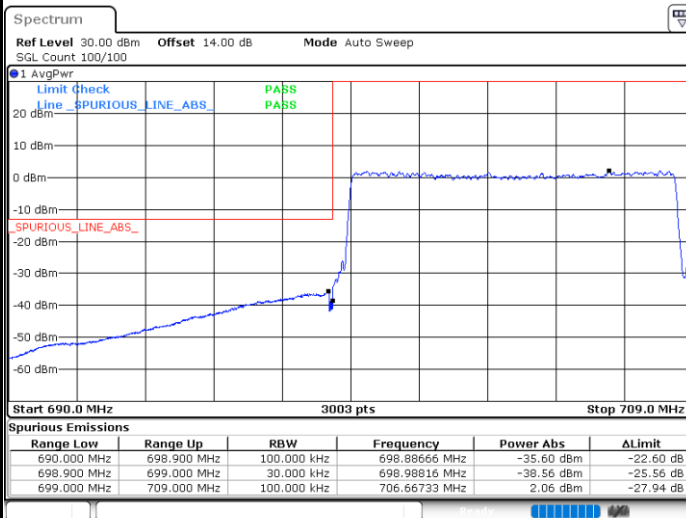
Lowest Band Edge / 1 RB



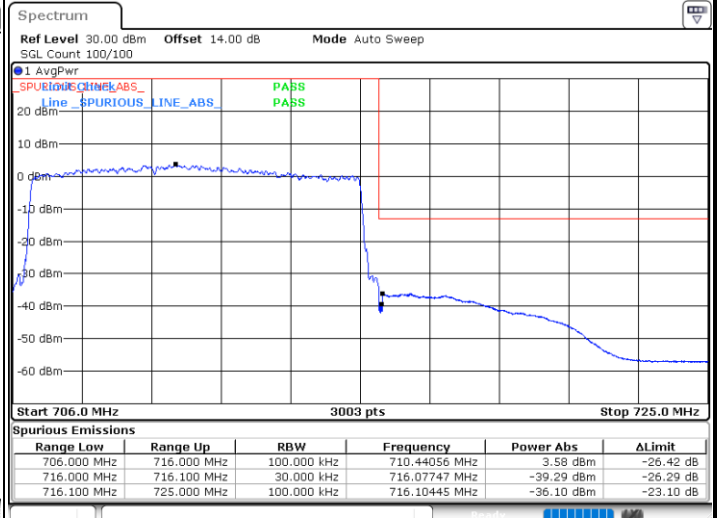
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

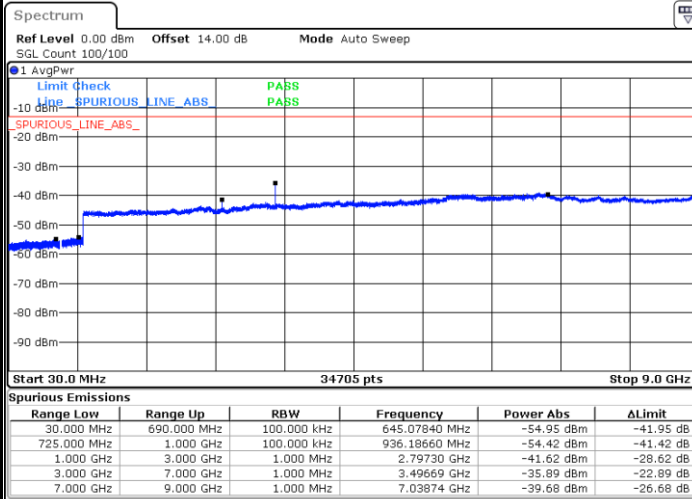




Conducted Spurious Emission

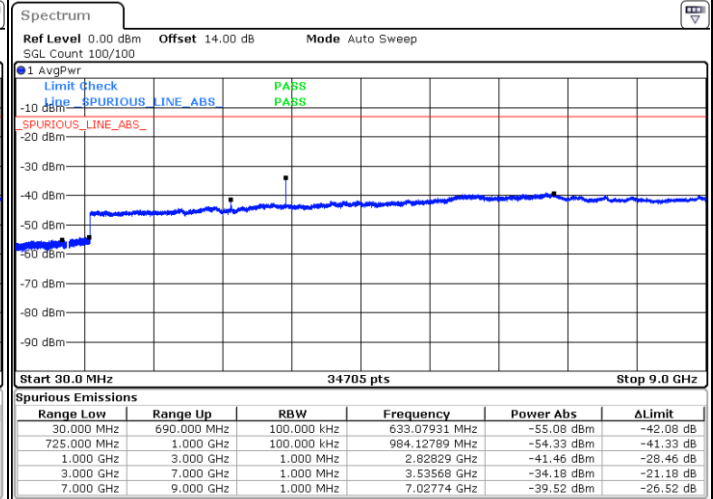
LTE Band 12 / 1.4MHz

Lowest Channel / QPSK



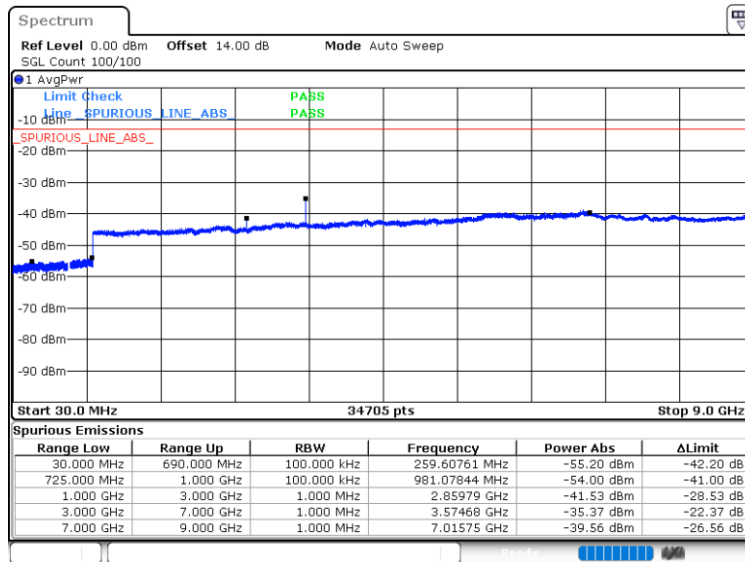
Date: 10.JUL.2025 10:02:39

Middle Channel / QPSK



Date: 10.JUL.2025 10:03:36

Highest Channel / QPSK

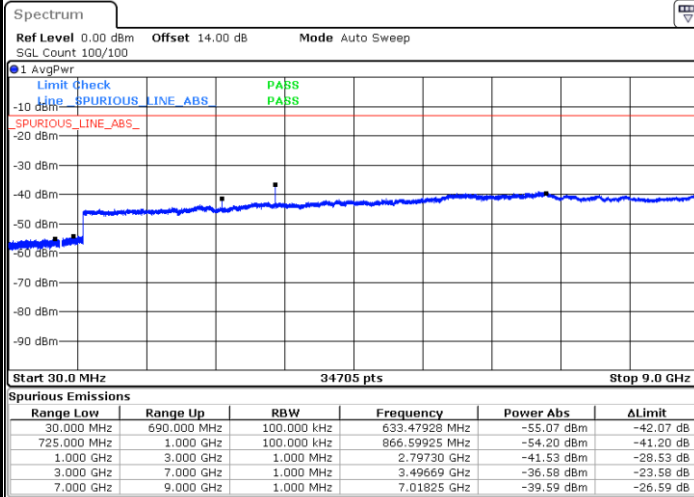


Date: 10.JUL.2025 10:10:25



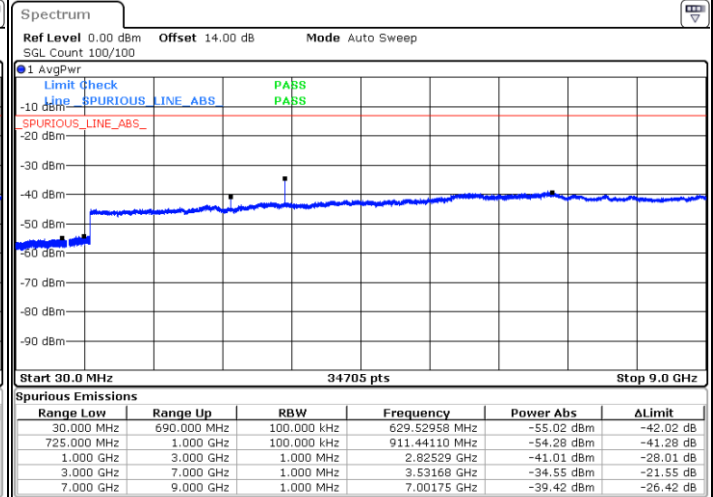
LTE Band 12 / 3MHz

Lowest Channel / QPSK



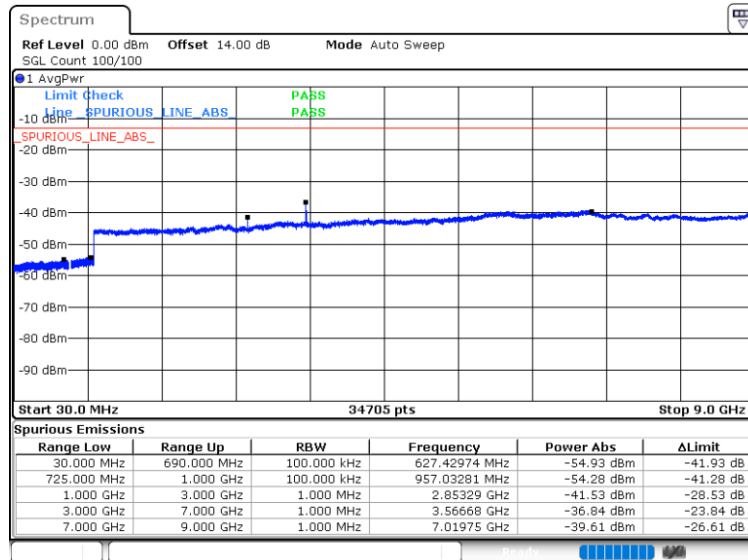
Date: 10.JUL.2025 10:16:43

Middle Channel / QPSK



Date: 10.JUL.2025 10:17:37

Highest Channel / QPSK

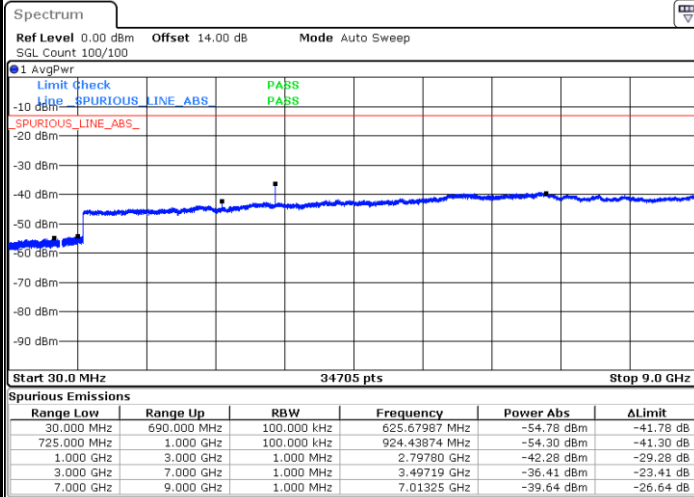


Date: 10.JUL.2025 10:24:27



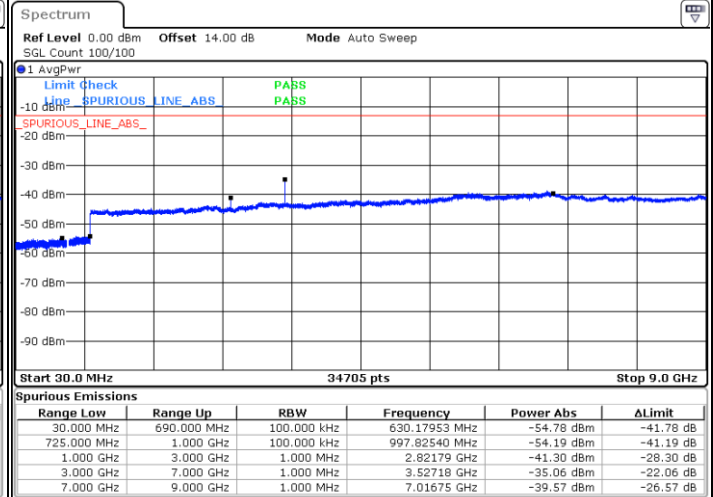
LTE Band 12 / 5MHz

Lowest Channel / QPSK



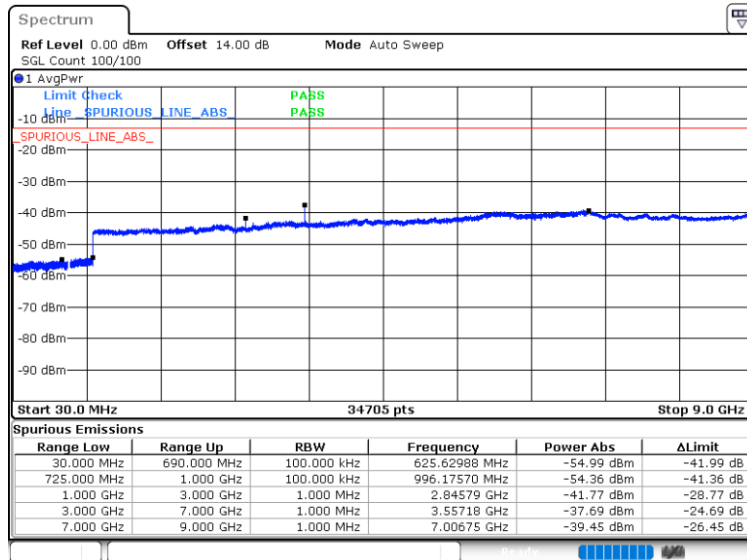
Date: 10.JUL.2025 10:38:30

Middle Channel / QPSK



Date: 10.JUL.2025 10:39:24

Highest Channel / QPSK

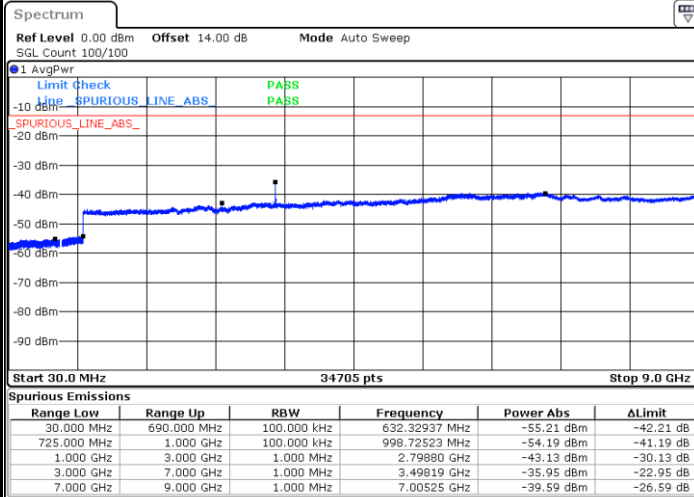


Date: 10.JUL.2025 10:46:14



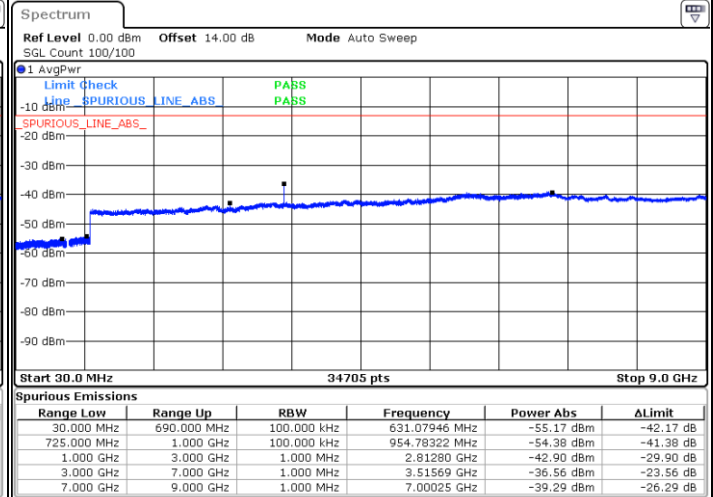
LTE Band 12 / 10MHz

Lowest Channel / QPSK



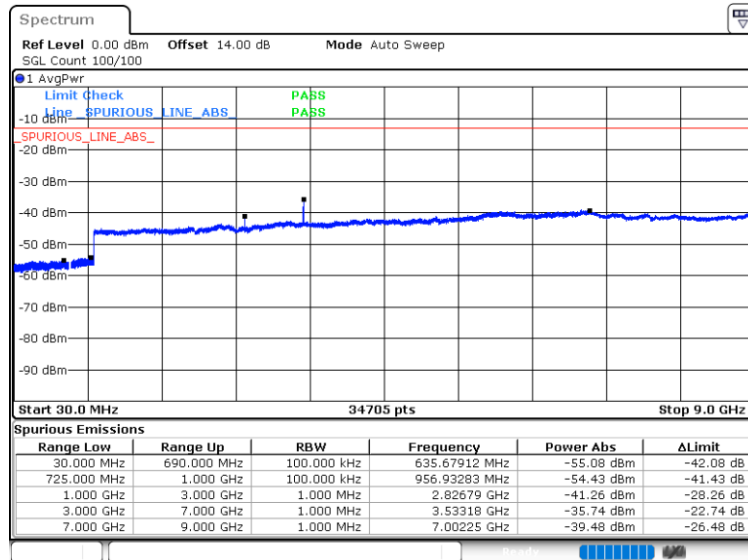
Date: 10.JUL.2025 10:52:27

Middle Channel / QPSK



Date: 10.JUL.2025 10:53:21

Highest Channel / QPSK



Date: 10.JUL.2025 11:00:13

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	2.3	PASS
40	Normal Voltage	-2.5	
30	Normal Voltage	3.7	
20(Ref.)	Normal Voltage	2.9	
10	Normal Voltage	-2.8	
0	Normal Voltage	-1.9	
-10	Normal Voltage	2.3	
-20	Normal Voltage	1.8	
-30	Normal Voltage	2.5	
20	Maximum Voltage	2.4	
20	Normal Voltage	2.9	
20	Battery End Point	-3.3	

Note:

1. Normal Voltage = 7.6 V. ; Battery End Point (BEP) = 7.2 V. ; Maximum Voltage = 8.5 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

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

Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L - \text{MAX}(\Delta f) $	699.148946	$\geq 699 \text{ MHz}$	PASS
$f_H + \text{MAX}(\Delta f) $	715.845454	$\leq 716 \text{ MHz}$	