

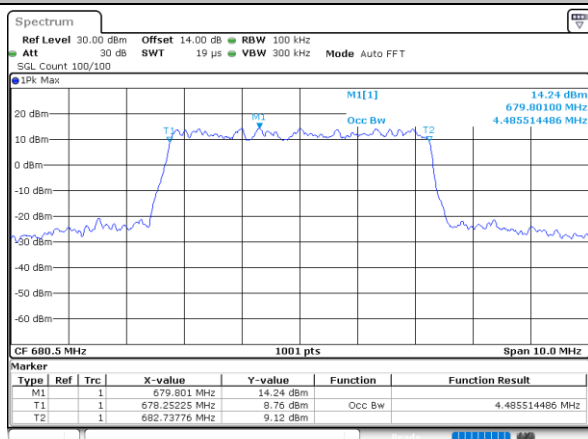


Occupied Bandwidth

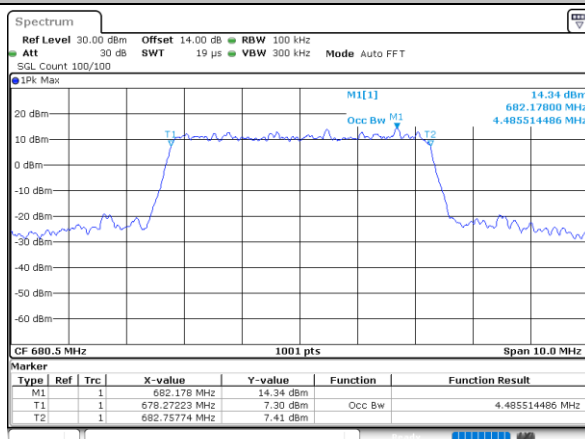
Mode	LTE Band 71 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.49	4.49	9.07	8.99	13.46	13.46	17.86	17.90

LTE Band 71

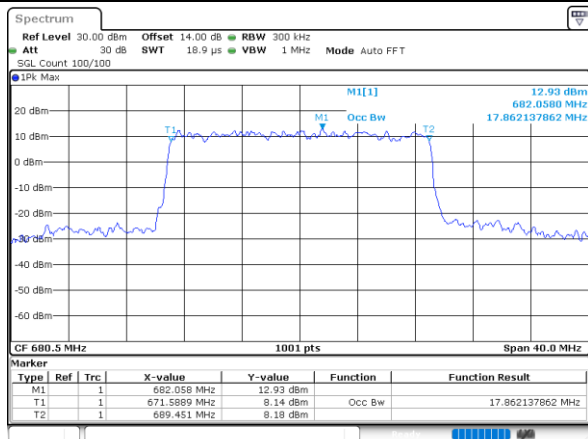
Middle Channel / 5MHz / QPSK



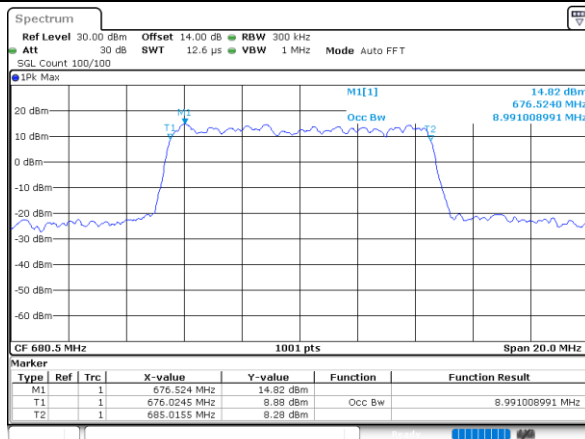
Middle Channel / 5MHz / 16QAM



Middle Channel / 10MHz / QPSK



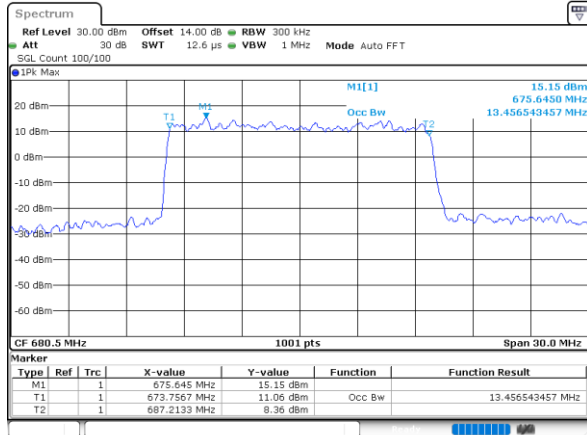
Middle Channel / 10MHz / 16QAM





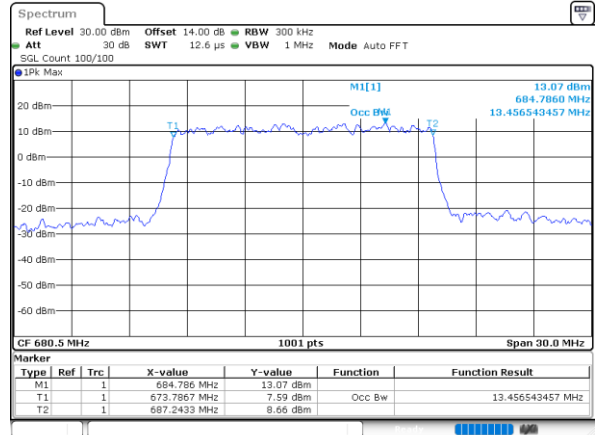
LTE Band 71

Middle Channel / 15MHz / QPSK



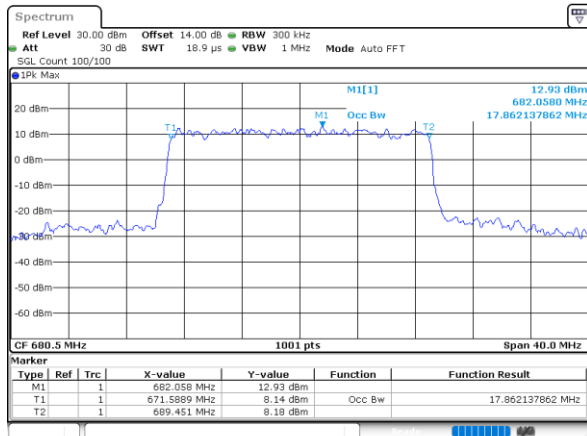
Date: 12 JUN 2025 14:09:33

Middle Channel / 15MHz / 16QAM



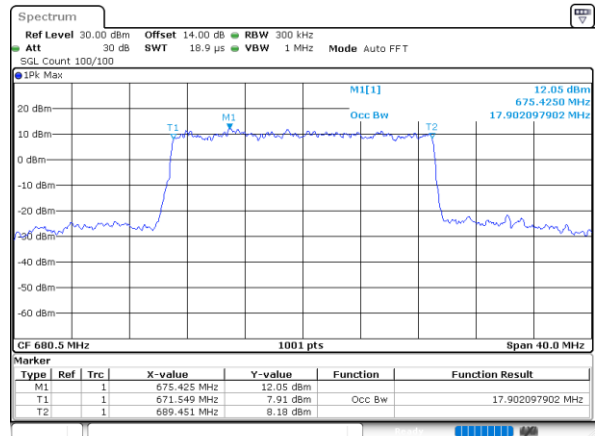
Date: 12 JUN 2025 14:10:13

Middle Channel / 20MHz / QPSK



Date: 12 JUN 2025 14:23:58

Middle Channel / 20MHz / 16QAM



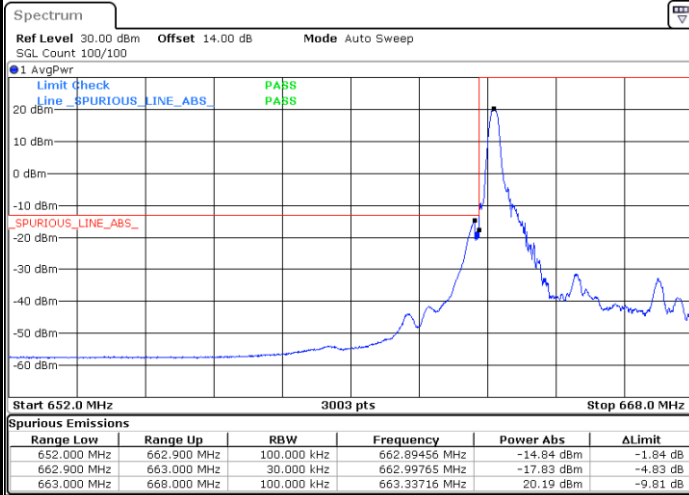
Date: 12 JUN 2025 14:24:38



Conducted Band Edge

LTE Band 71 / 5MHz / QPSK

Lowest Band Edge / 1 RB



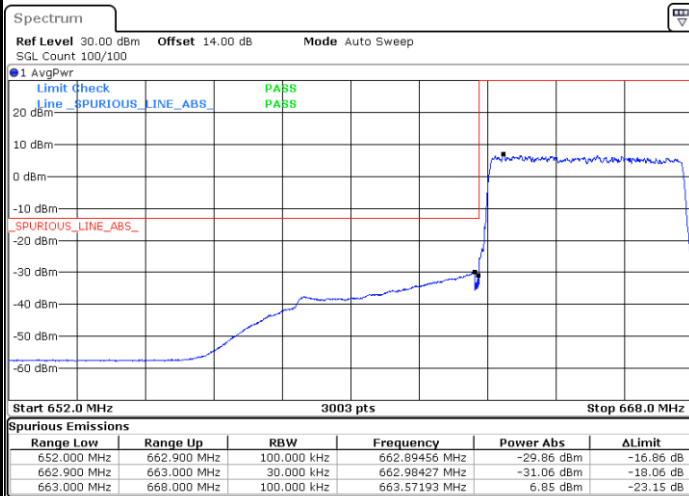
Date: 12.JUN.2025 13:34:01

Highest Band Edge / 1 RB



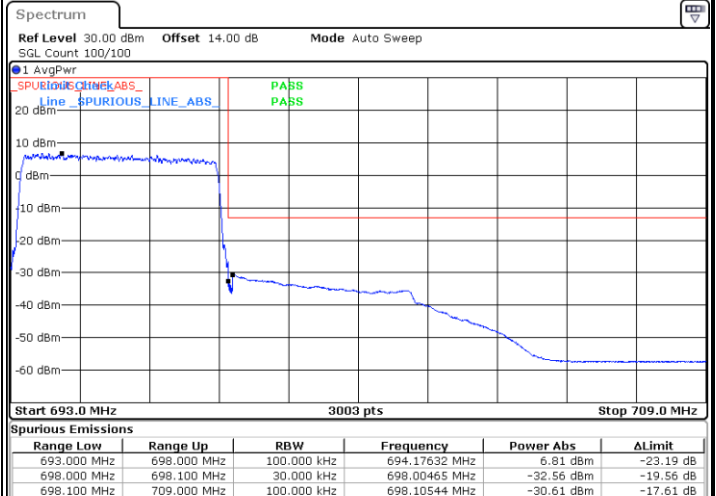
Date: 12.JUN.2025 13:40:30

Lowest Band Edge / Full RB



Date: 12.JUN.2025 13:36:40

Highest Band Edge / Full RB

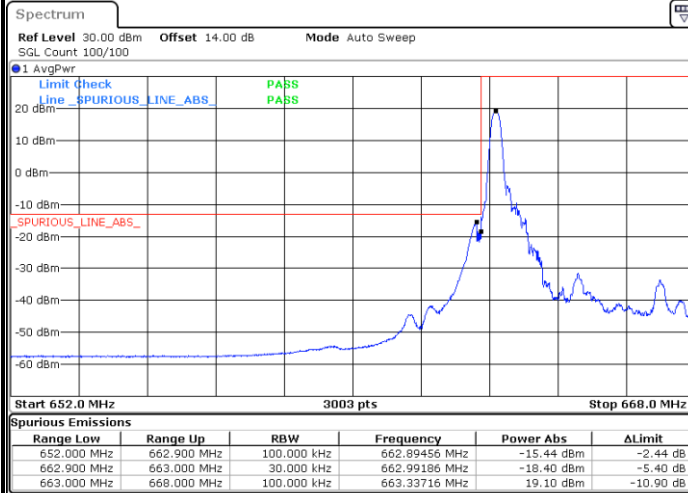


Date: 12.JUN.2025 13:43:02



LTE Band 71 / 5MHz / 16QAM

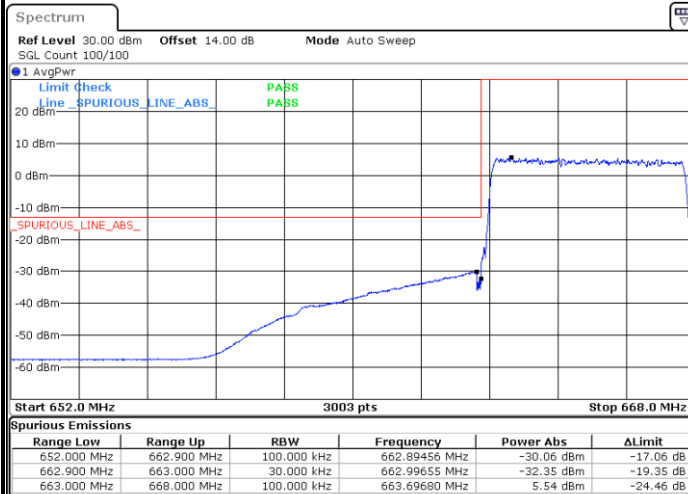
Lowest Band Edge / 1RB



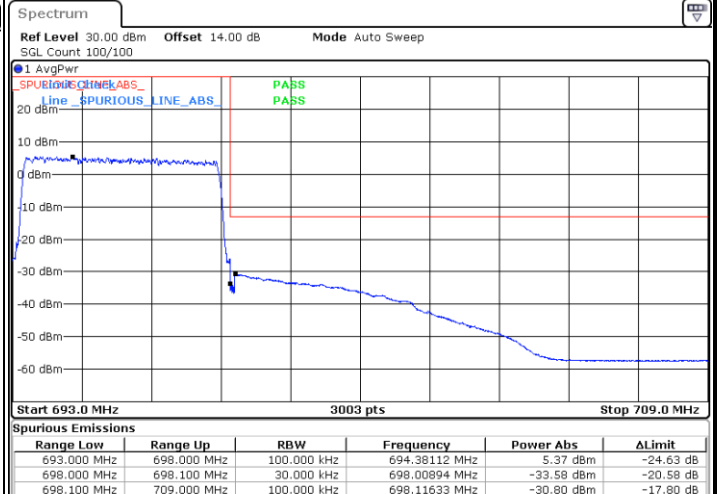
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



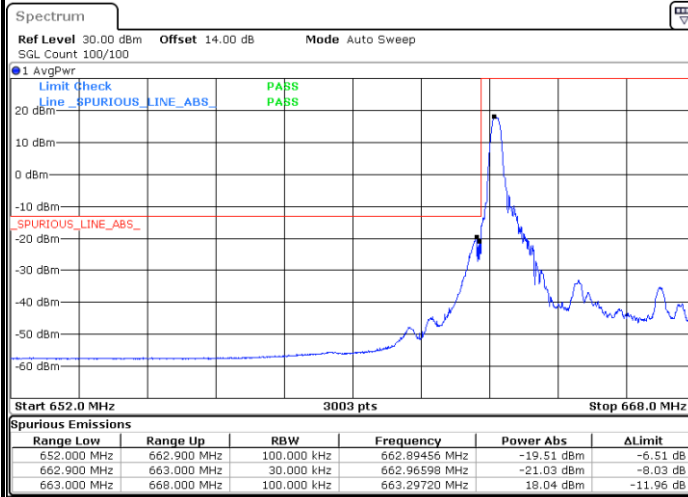
Highest Band Edge / Full RB





LTE Band 71 / 5MHz / 64QAM

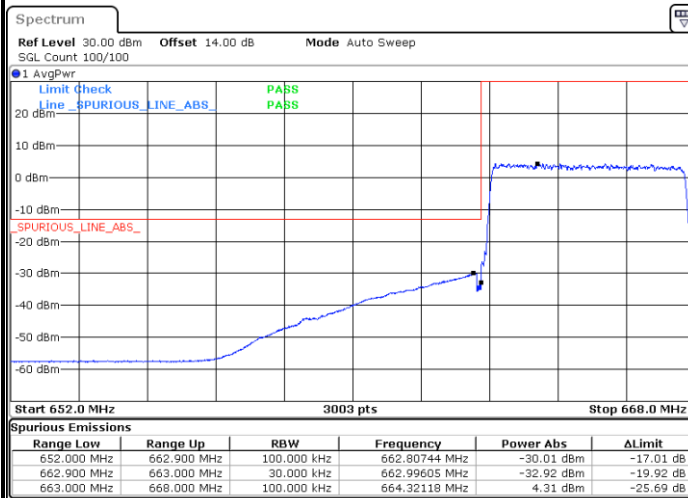
Lowest Band Edge / 1RB



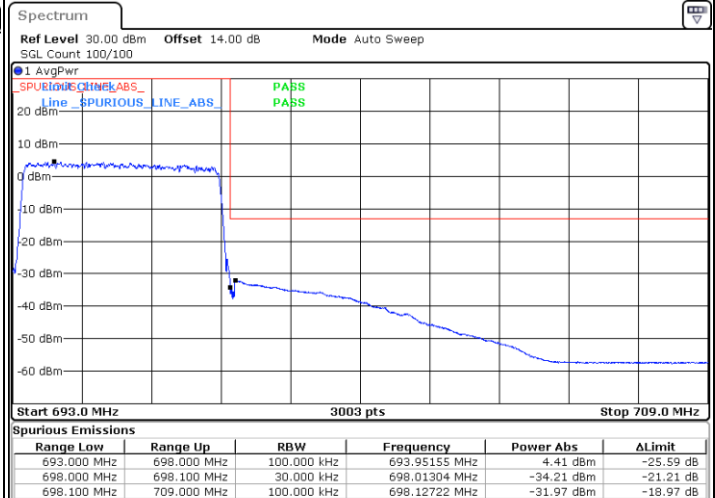
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



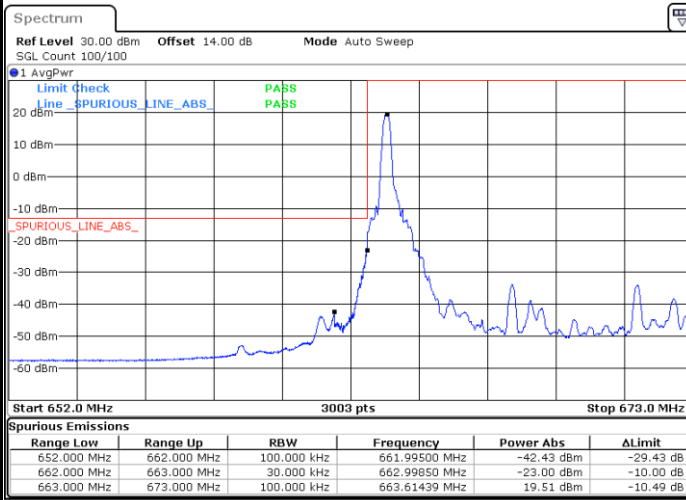
Highest Band Edge / Full RB



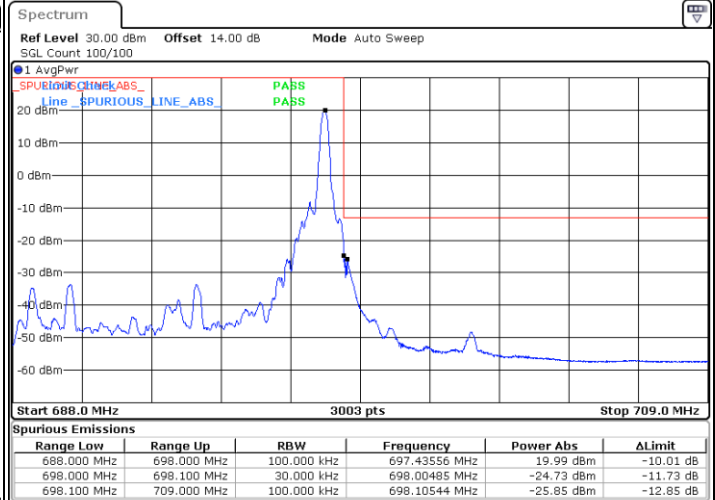


LTE Band 71 / 10MHz / QPSK

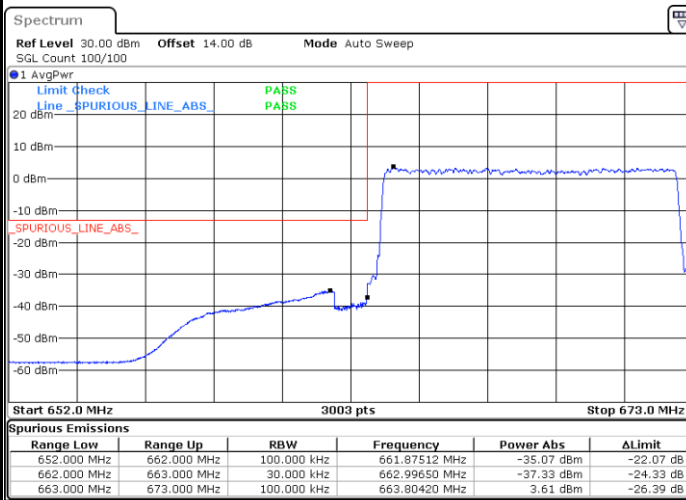
Lowest Band Edge / 1 RB



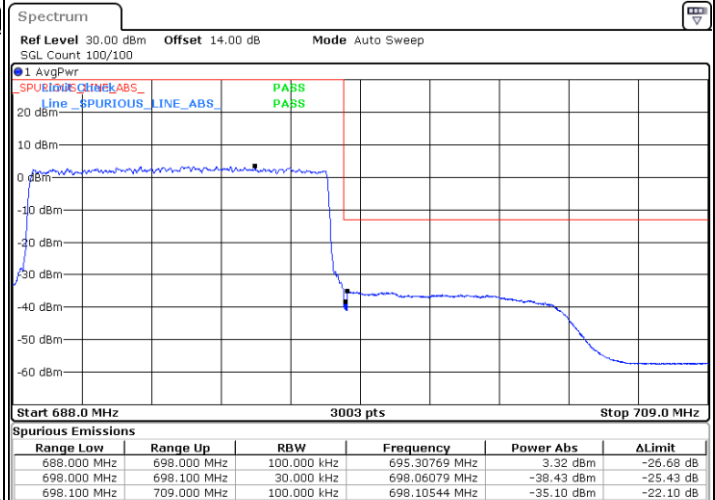
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



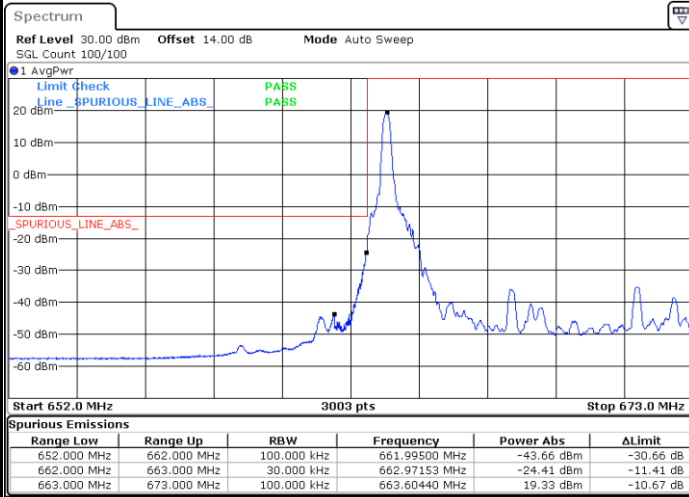
Highest Band Edge / Full RB



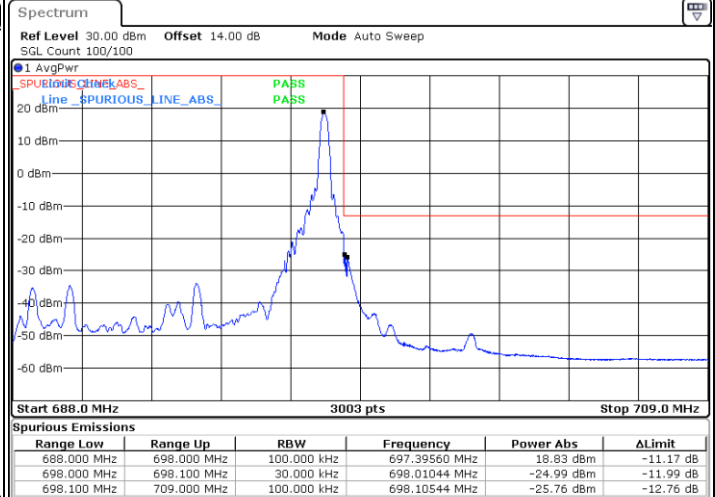


LTE Band 71 / 10MHz / 16QAM

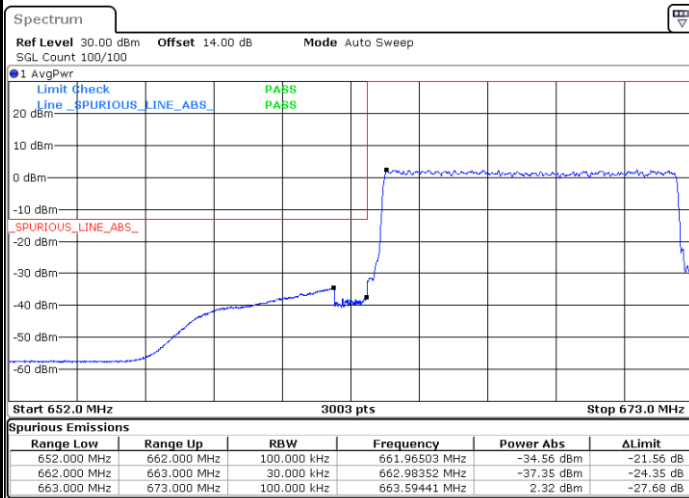
Lowest Band Edge / 1RB



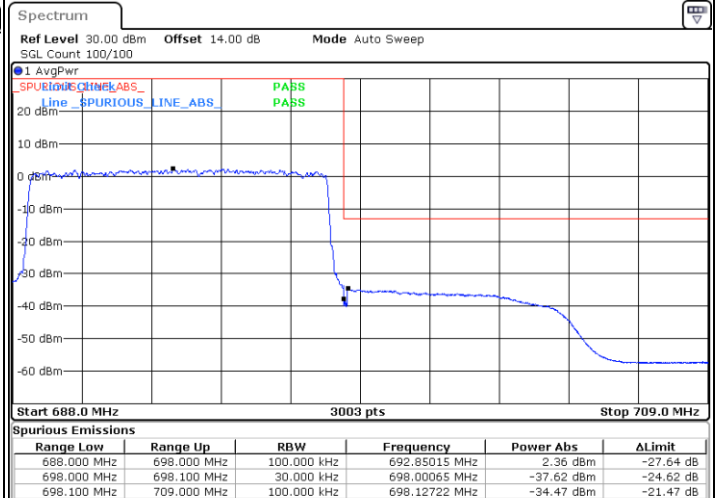
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



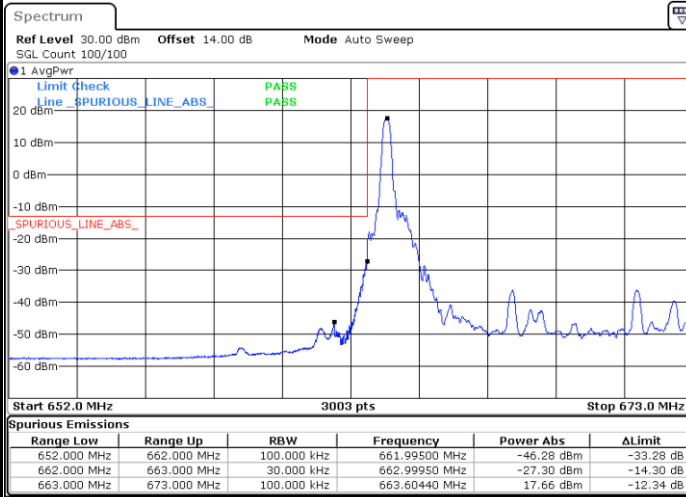
Highest Band Edge / Full RB



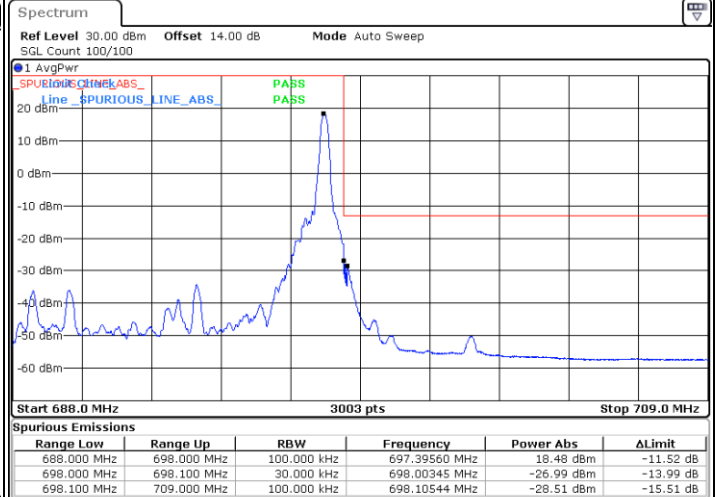


LTE Band 71 / 10MHz / 64QAM

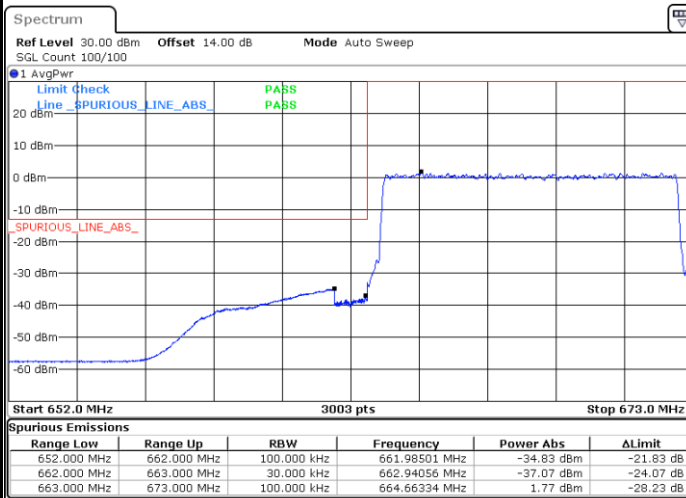
Lowest Band Edge / 1RB



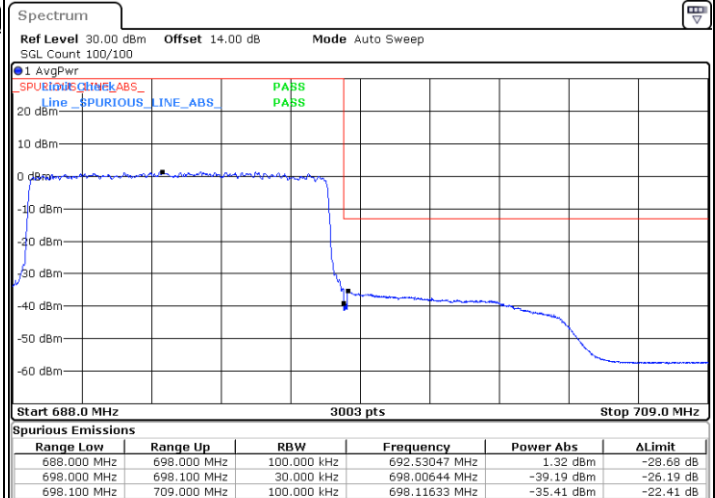
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



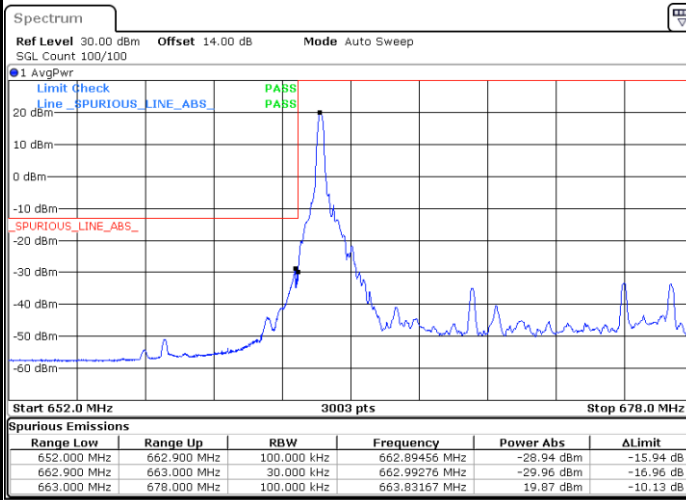
Highest Band Edge / Full RB





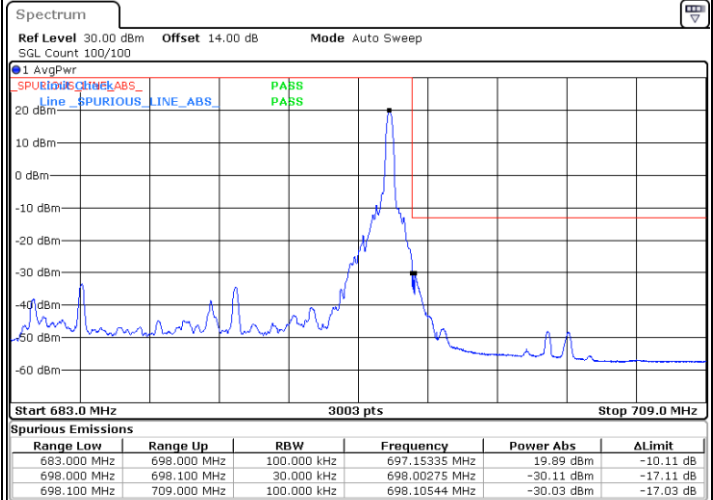
LTE Band 71 / 15MHz / QPSK

Lowest Band Edge / 1 RB



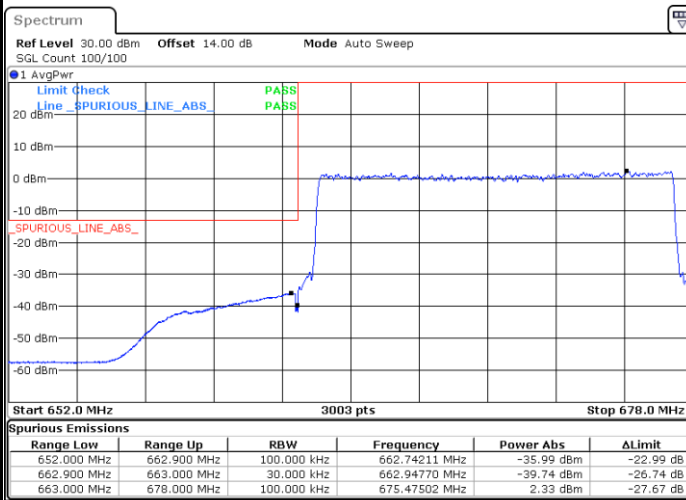
Date: 12.JUN.2025 14:03:25

Highest Band Edge / 1 RB



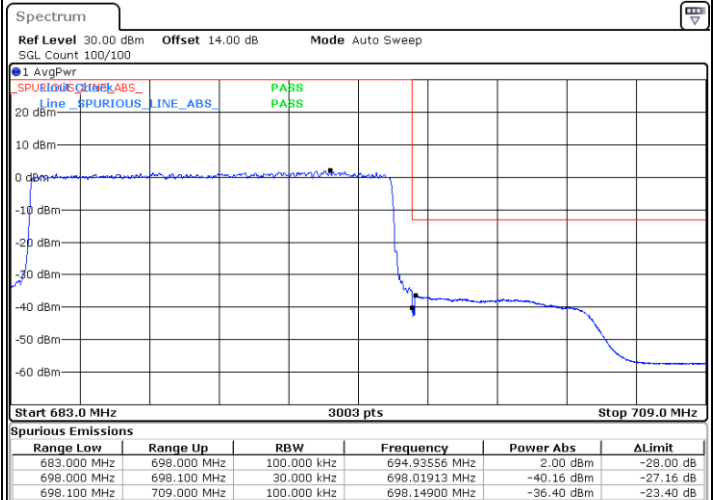
Date: 12.JUN.2025 14:11:17

Lowest Band Edge / Full RB



Date: 12.JUN.2025 14:05:57

Highest Band Edge / Full RB

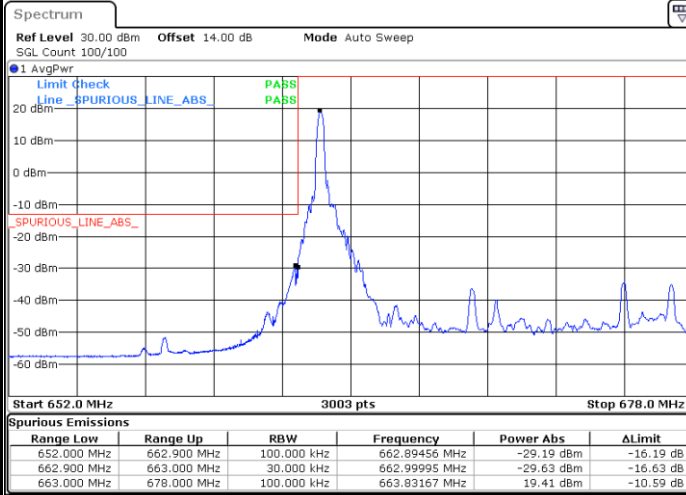


Date: 12.JUN.2025 14:13:50

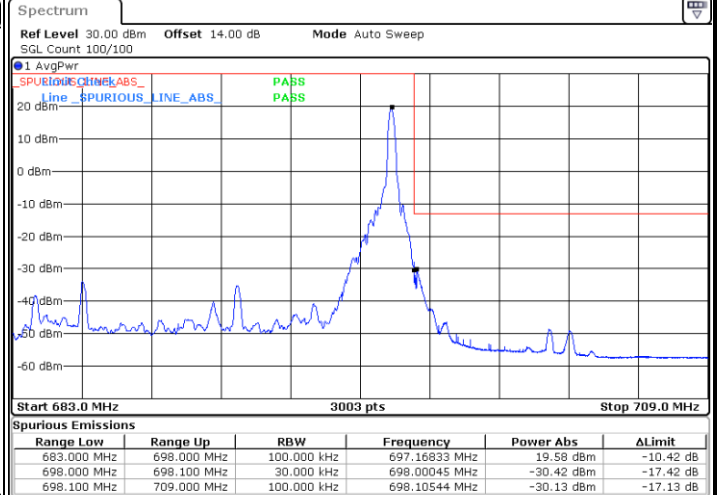


LTE Band 71 / 15MHz / 16QAM

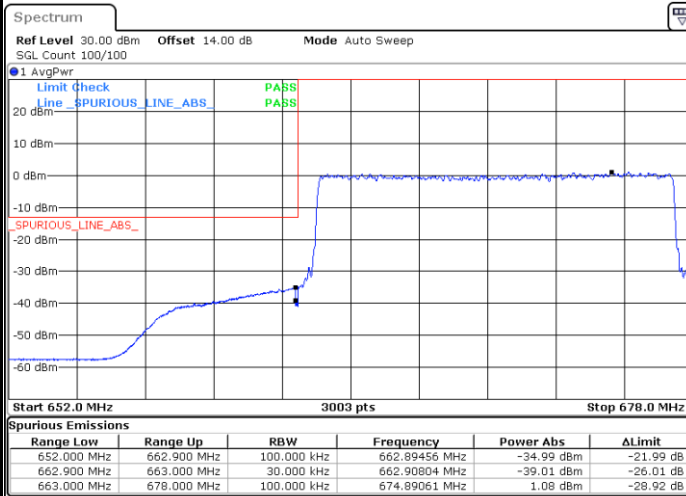
Lowest Band Edge / 1RB



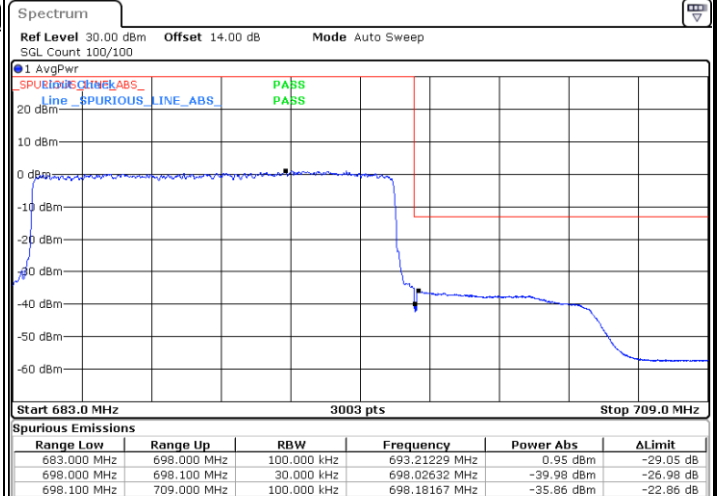
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



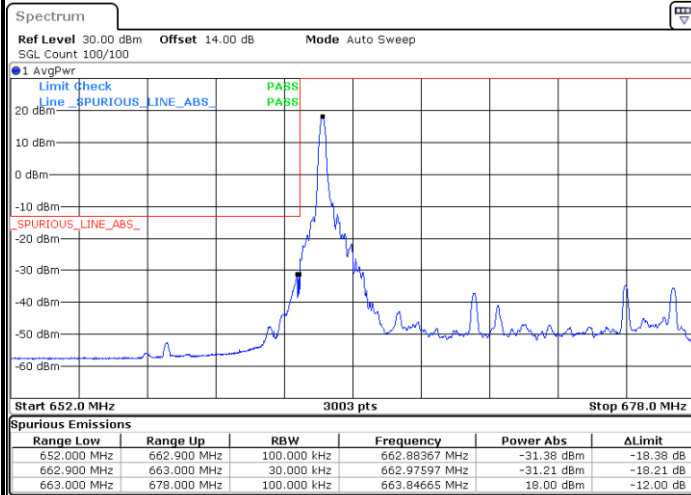
Highest Band Edge / Full RB



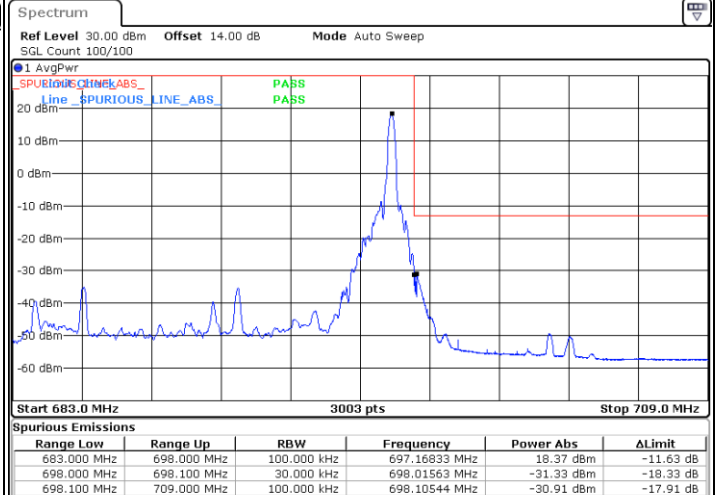


LTE Band 71 / 15MHz / 64QAM

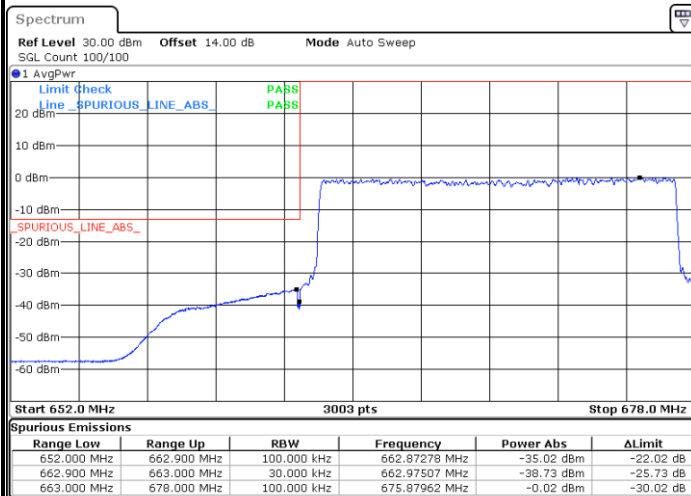
Lowest Band Edge / 1RB



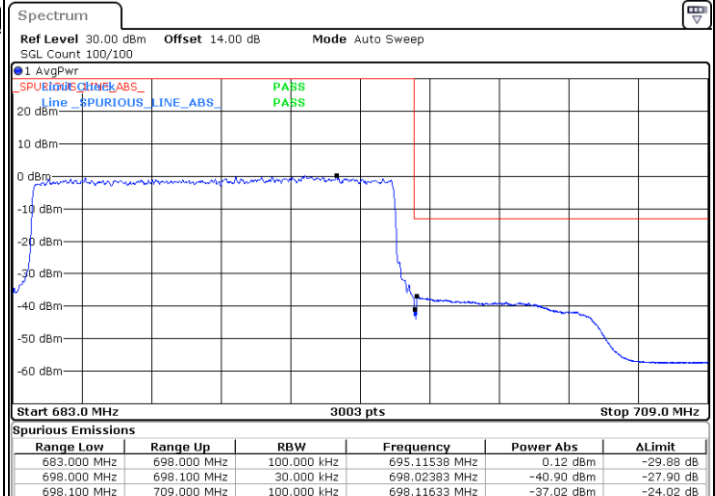
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



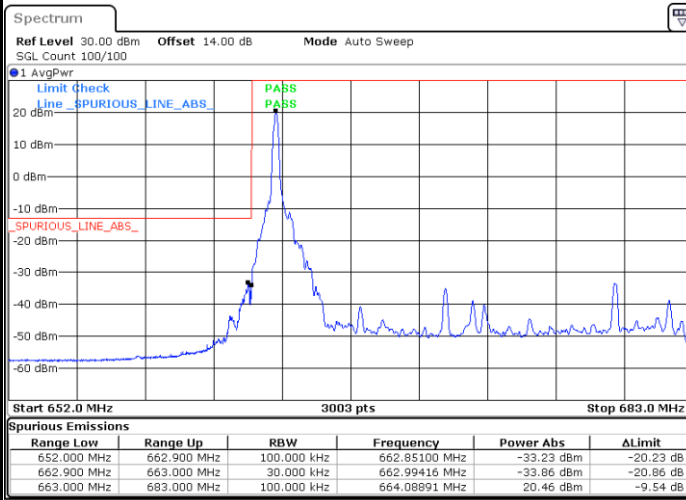
Highest Band Edge / Full RB



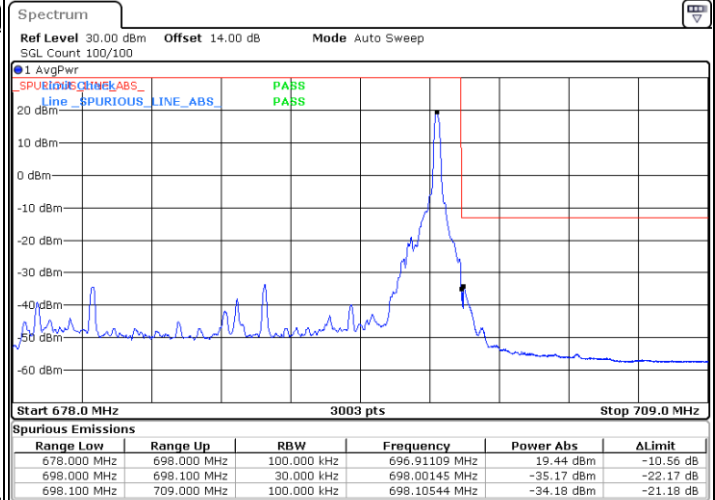


LTE Band 71 / 20MHz / QPSK

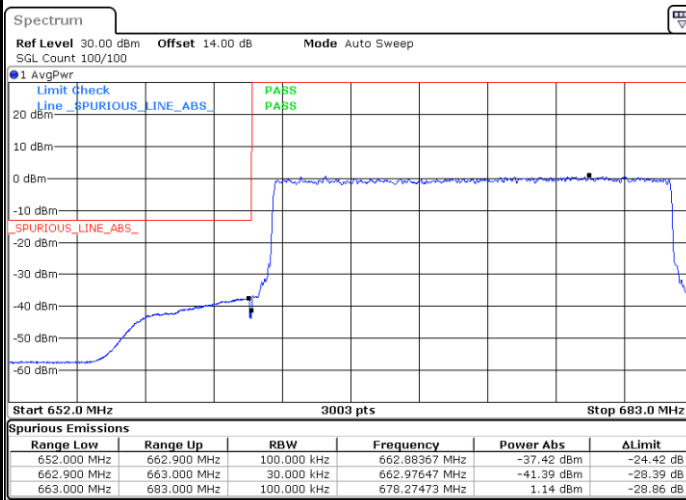
Lowest Band Edge / 1 RB



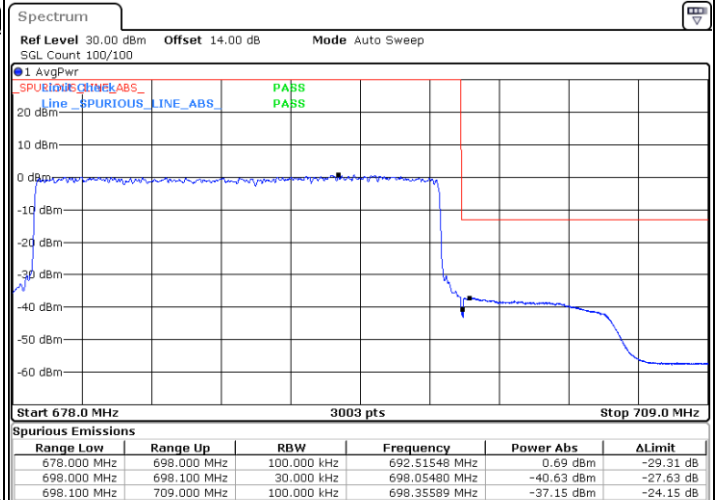
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



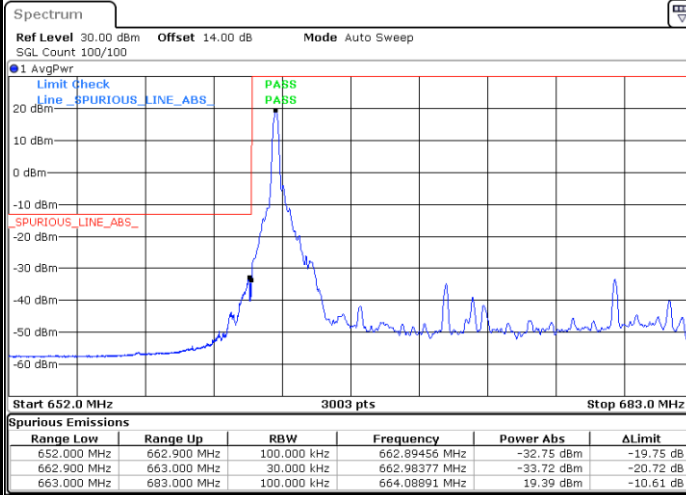
Highest Band Edge / Full RB



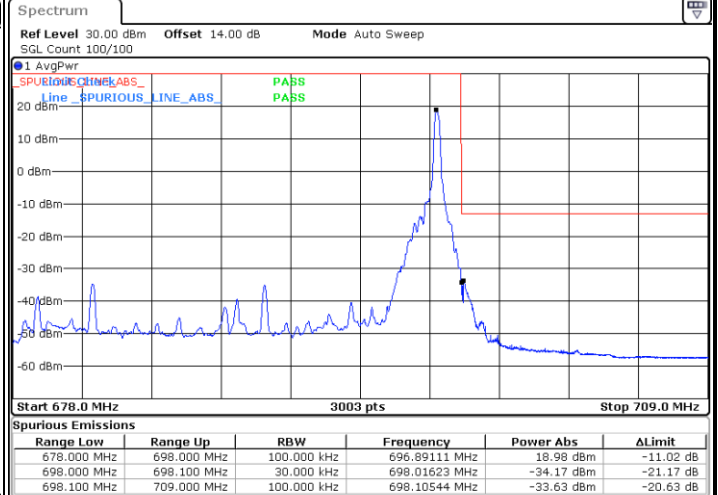


LTE Band 71 / 20MHz / 16QAM

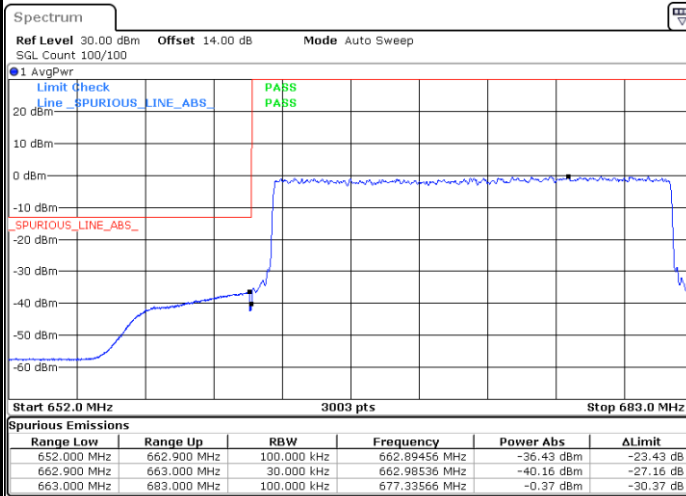
Lowest Band Edge / 1RB



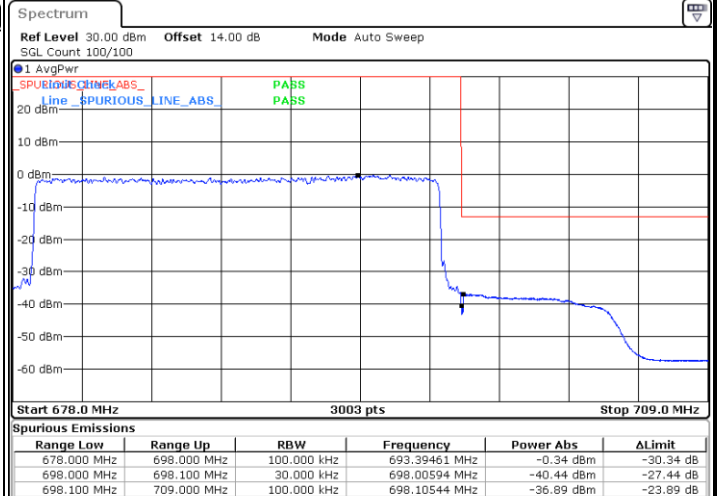
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



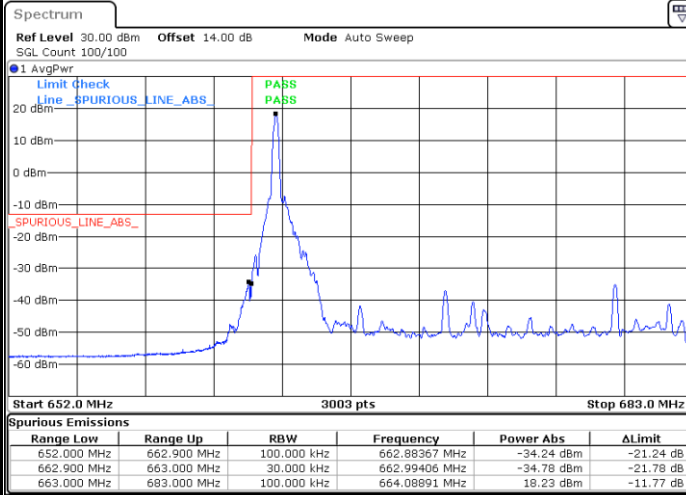
Highest Band Edge / Full RB



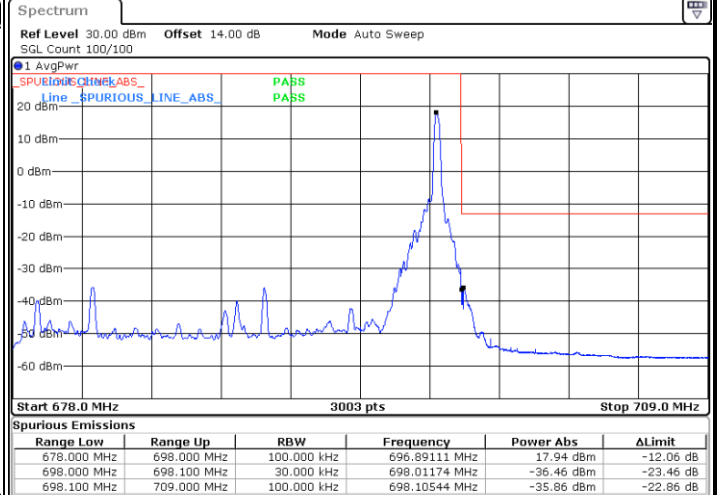


LTE Band 71 / 20MHz / 64QAM

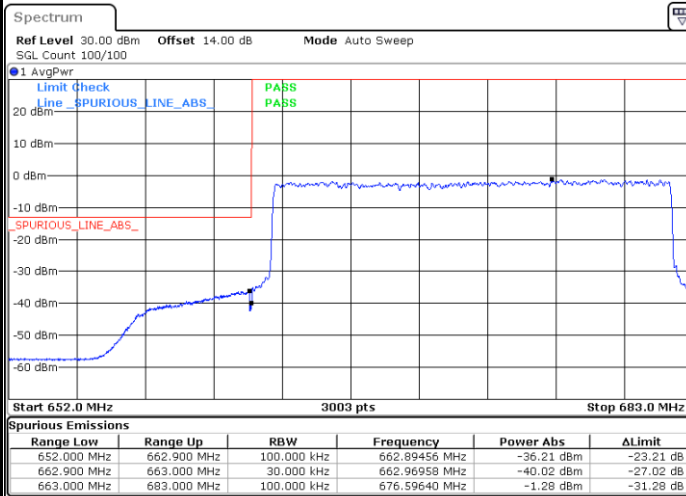
Lowest Band Edge / 1RB



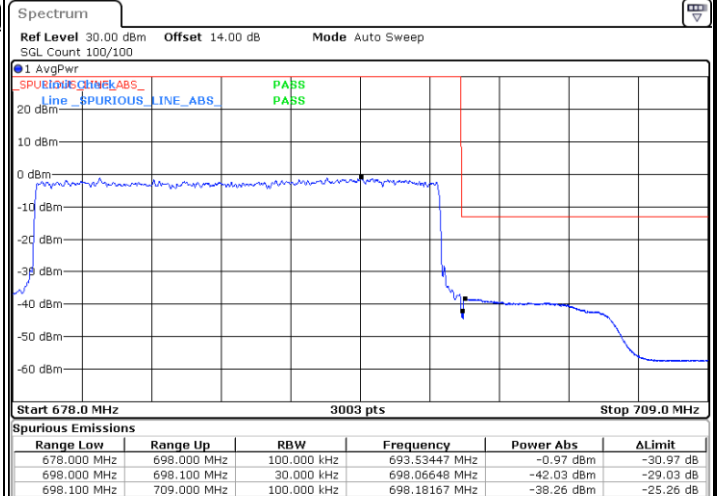
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

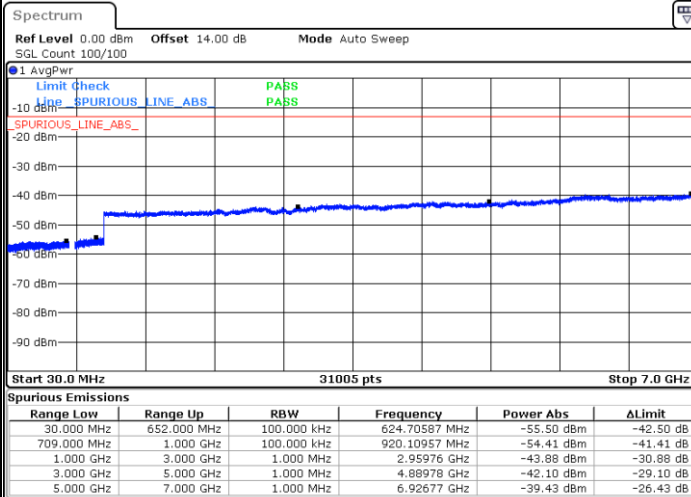




Conducted Spurious Emission

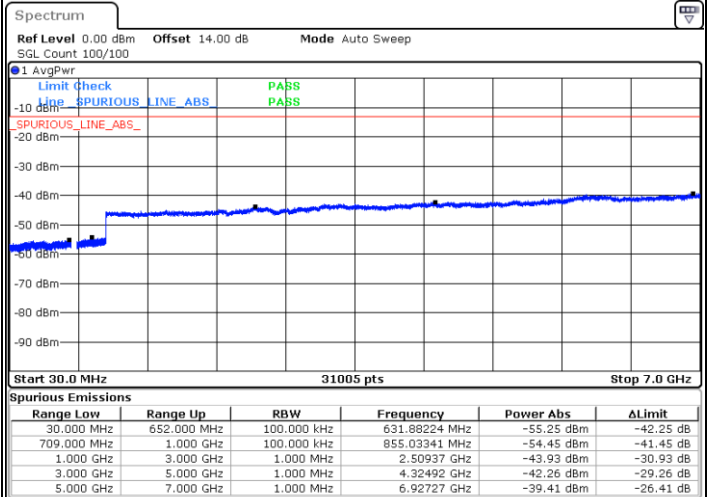
LTE Band 71 / 5MHz

Lowest Channel / QPSK



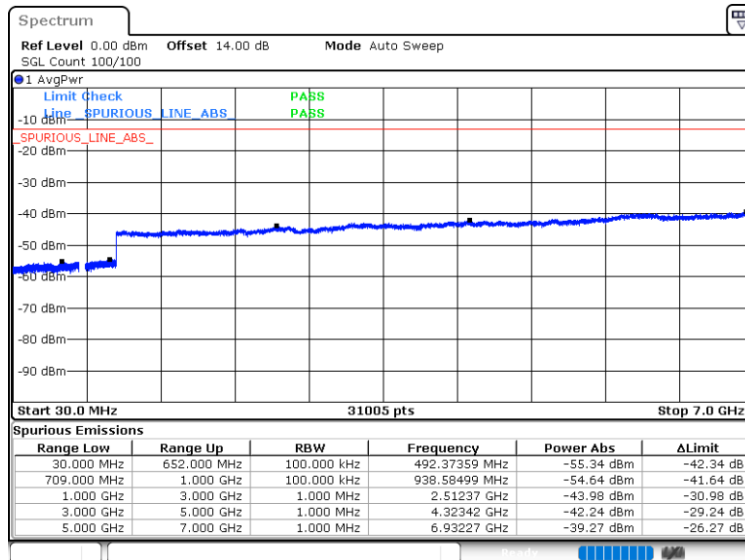
Date: 12.JUN.2025 12:43:33

Middle Channel / QPSK



Date: 12.JUN.2025 12:44:17

Highest Channel / QPSK

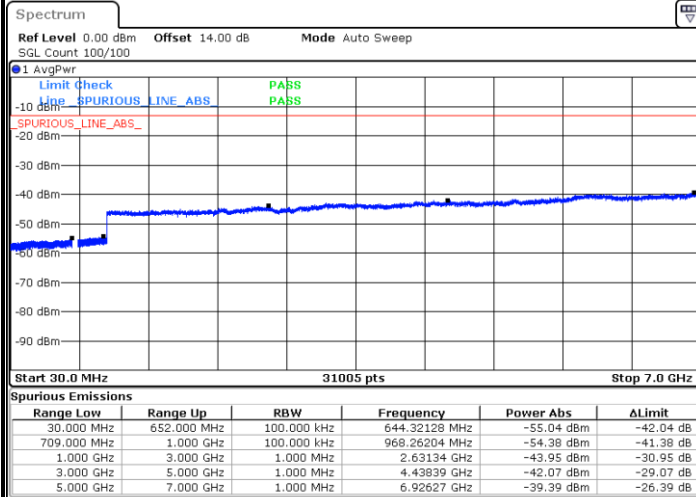


Date: 12.JUN.2025 13:45:28



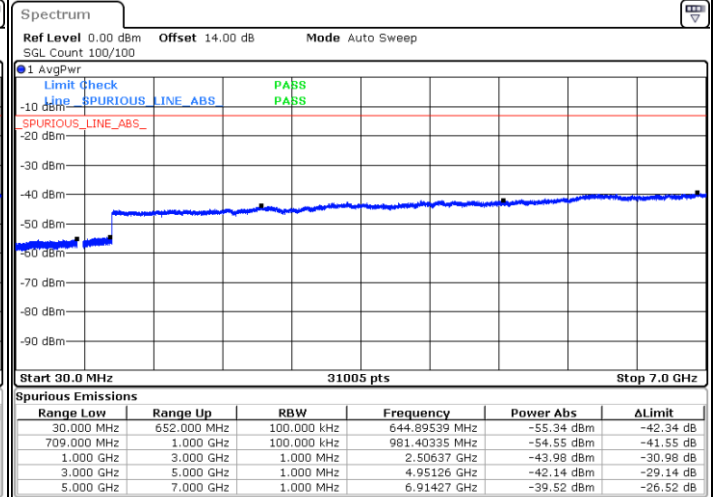
LTE Band 71 / 10MHz

Lowest Channel / QPSK



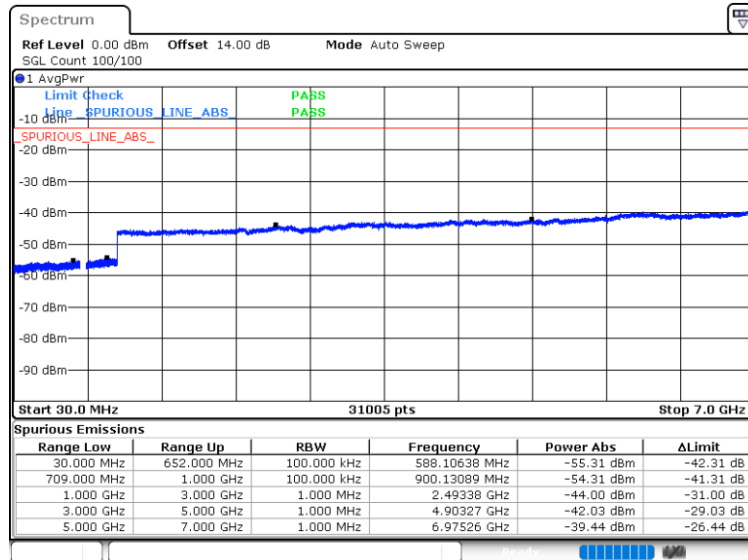
Date: 12.JUN.2025 13:51:59

Middle Channel / QPSK



Date: 12.JUN.2025 13:52:43

Highest Channel / QPSK

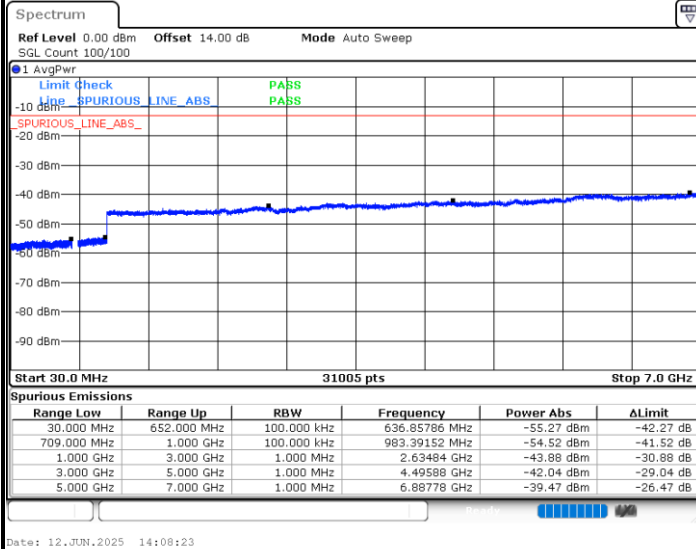


Date: 12.JUN.2025 14:01:52

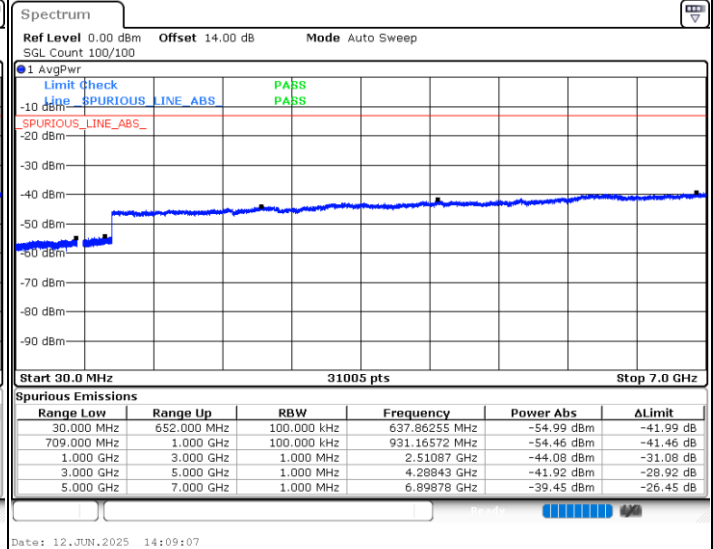


LTE Band 71 / 15MHz

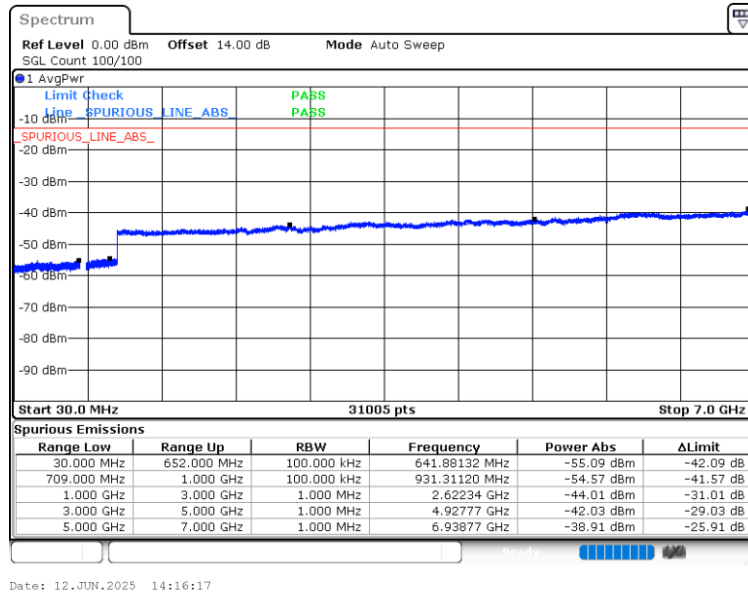
Lowest Channel / QPSK



Middle Channel / QPSK



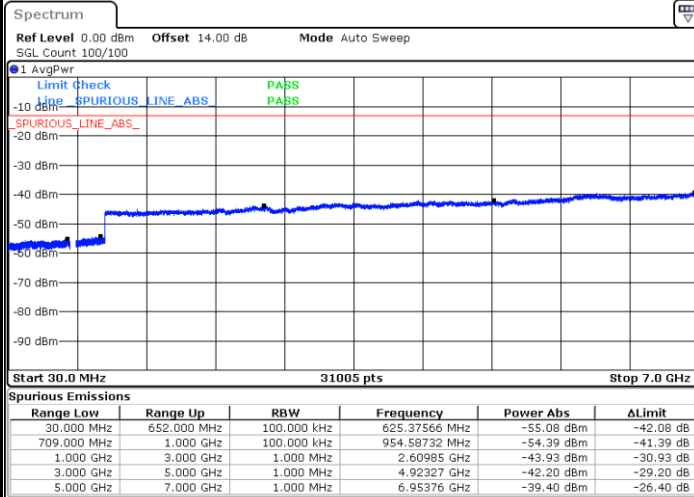
Highest Channel / QPSK





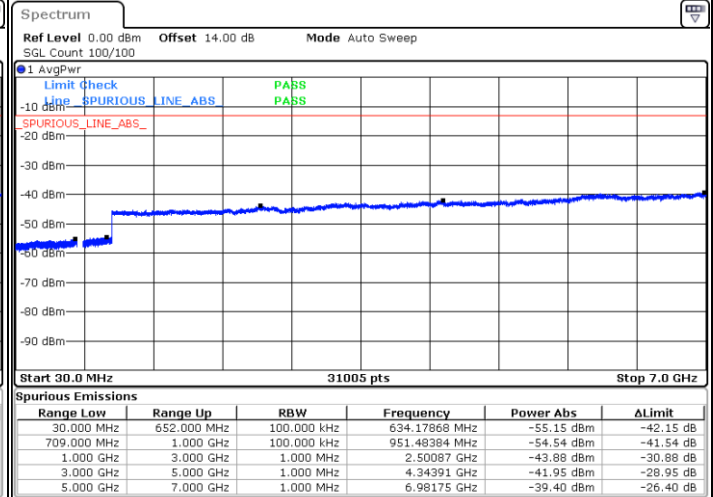
LTE Band 71 / 20MHz

Lowest Channel / QPSK



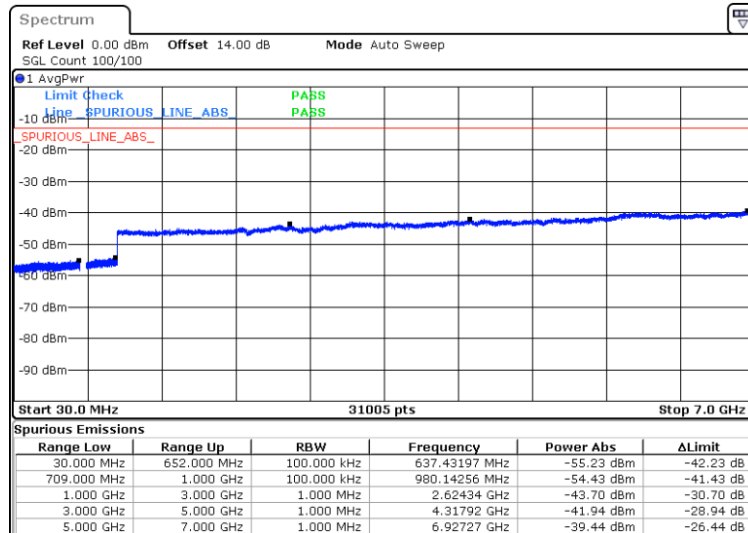
Date: 12.JUN.2025 14:22:48

Middle Channel / QPSK



Date: 12.JUN.2025 14:23:32

Highest Channel / QPSK



Date: 12.JUN.2025 14:32:02

Frequency Stability

Test Conditions		LTE Band 71 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 5MHz	Note 2.
		Frequency Offset (Δf) (Hz)	Result
50	Normal Voltage	3	PASS
40	Normal Voltage	2.4	
30	Normal Voltage	-2.1	
20(Ref.)	Normal Voltage	3.8	
10	Normal Voltage	-1.7	
0	Normal Voltage	-3.7	
-10	Normal Voltage	-2.1	
-20	Normal Voltage	-1.4	
-30	Normal Voltage	2.5	
20	Maximum Voltage	3.2	
20	Normal Voltage	3.8	
20	Battery End Point	2.3	

Note:

1. Normal Voltage = 3.85 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.3 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

$$|\text{MAX}(\Delta f)| = 3.8\text{Hz}$$

Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L - \text{MAX}(\Delta f) $	663.252246	$\geq 663 \text{ MHz}$	PASS
$f_H + \text{MAX}(\Delta f) $	697.747754	$\leq 698 \text{ MHz}$	



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Liangping Zhou	Temperature :	22~25℃
		Relative Humidity :	48~52%

LTE Band 13 / 5MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1554.5	-47.34	-13	-34.34	-56.89	-50.57	3.98	9.36	H
	2331.75	-56.99	-13	-43.99	-71.36	-60.54	4.85	10.55	H
	3109	-60.66	-13	-47.66	-77.04	-65.59	5.50	12.58	H
	1554.5	-43.15	-13	-30.15	-52.78	-46.38	3.98	9.36	V
	2331.75	-57.91	-13	-44.91	-72.28	-61.46	4.85	10.55	V
	3109	-60.56	-13	-47.56	-77.00	-65.49	5.50	12.58	V
Middle	1559.5	-49.60	-42.15	-7.45	-59.15	-52.85	4.00	9.40	H
	2339.25	-56.19	-13	-43.19	-70.51	-59.76	4.88	10.60	H
	3119	-61.01	-13	-48.01	-77.49	-65.94	5.52	12.60	H
	1559.5	-46.04	-42.15	-3.89	-55.67	-49.29	4.00	9.40	V
	2339.25	-51.62	-13	-38.62	-65.94	-55.19	4.88	10.60	V
	3119	-61.03	-13	-48.03	-77.55	-65.96	5.52	12.60	V
Highest	1564.5	-50.15	-42.15	-8.00	-59.70	-53.32	4.10	9.42	H
	2346.75	-51.78	-13	-38.78	-66.10	-55.36	4.90	10.63	H
	3129	-61.26	-13	-48.26	-77.74	-66.18	5.55	12.62	H
	1564.5	-46.12	-42.15	-3.97	-55.75	-49.29	4.10	9.42	V
	2346.75	-53.47	-13	-40.47	-67.79	-57.05	4.90	10.63	V
	3129	-61.29	-13	-48.29	-77.81	-66.21	5.55	12.62	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)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1559.5	-51.20	-42.15	-9.05	-60.75	-54.45	4.00	9.40	H
	2339.25	-61.61	-13	-48.61	-75.93	-65.18	4.88	10.60	H
	3119	-60.69	-13	-47.69	-77.17	-65.62	5.52	12.60	H
	1559.5	-48.17	-42.15	-6.02	-57.80	-51.42	4.00	9.40	V
	2339.25	-61.73	-13	-48.73	-76.05	-65.30	4.88	10.60	V
	3119	-60.48	-13	-47.48	-77.00	-65.41	5.52	12.60	V

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



LTE Band 17 / 10MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1409.18	-58.08	-13	-45.08	-68.16	-61.31	3.98	9.36	H
	2113.77	-54.71	-13	-41.71	-67.86	-58.26	4.85	10.55	H
	2818.36	-52.09	-13	-39.09	-67.39	-57.02	5.50	12.58	H
	1409.18	-54.00	-13	-41.00	-63.64	-57.23	3.98	9.36	V
	2113.77	-58.38	-13	-45.38	-71.49	-61.93	4.85	10.55	V
	2818.36	-48.70	-13	-35.70	-64.19	-53.63	5.50	12.58	V
Middle	1411.18	-58.19	-13	-45.19	-68.27	-61.44	4.00	9.40	H
	2116.77	-53.56	-13	-40.56	-66.71	-57.13	4.88	10.60	H
	2822.36	-50.69	-13	-37.69	-65.99	-55.62	5.52	12.60	H
	1411.18	-53.41	-13	-40.41	-63.05	-56.66	4.00	9.40	V
	2116.77	-53.08	-13	-40.08	-66.19	-56.65	4.88	10.60	V
	2822.36	-47.58	-13	-34.58	-63.07	-52.51	5.52	12.60	V
Highest	1413.18	-57.12	-13	-44.12	-67.20	-60.29	4.10	9.42	H
	2119.77	-55.55	-13	-42.55	-68.70	-59.13	4.90	10.63	H
	2826.36	-50.82	-13	-37.82	-66.13	-55.74	5.55	12.62	H
	1413.18	-53.81	-13	-40.81	-63.45	-56.98	4.10	9.42	V
	2119.77	-55.72	-13	-42.72	-68.83	-59.30	4.90	10.63	V
	2826.36	-48.49	-13	-35.49	-63.99	-53.41	5.55	12.62	V

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

LTE Band 26 / 15MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1649.5	-42.75	-13	-29.75	-52.26	-45.98	3.98	9.36	H
	2474.25	-57.75	-13	-44.75	-71.65	-61.30	4.85	10.55	H
	3299	-60.89	-13	-47.89	-76.95	-65.82	5.50	12.58	H
	1649.5	-46.49	-13	-33.49	-55.74	-49.72	3.98	9.36	V
	2474.25	-57.56	-13	-44.56	-71.43	-61.11	4.85	10.55	V
	3299	-61.41	-13	-48.41	-77.28	-66.34	5.50	12.58	V
Middle	1659.5	-41.26	-13	-28.26	-50.82	-44.51	4.00	9.40	H
	2489.25	-61.98	-13	-48.98	-75.82	-65.55	4.88	10.60	H
	3319	-61.62	-13	-48.62	-77.54	-66.55	5.52	12.60	H
	1659.5	-45.02	-13	-32.02	-54.18	-48.27	4.00	9.40	V
	2489.25	-57.38	-13	-44.38	-71.18	-60.95	4.88	10.60	V
	3319	-61.86	-13	-48.86	-77.56	-66.79	5.52	12.60	V
Highest	1669.5	-41.96	-13	-28.96	-51.52	-45.13	4.10	9.42	H
	2504.25	-53.31	-13	-40.31	-67.16	-56.89	4.90	10.63	H
	3339	-61.47	-13	-48.47	-77.08	-66.39	5.55	12.62	H
	1669.5	-44.03	-13	-31.03	-53.19	-47.20	4.10	9.42	V
	2504.25	-54.59	-13	-41.59	-68.40	-58.17	4.90	10.63	V
	3339	-61.84	-13	-48.84	-77.18	-66.76	5.55	12.62	V

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



LTE Band 71 / 20MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1328	-58.91	-13	-45.91	-69.38	-62.14	3.98	9.36	H
	1992	-50.08	-13	-37.08	-66.65	-53.63	4.85	10.55	H
	2656	-48.59	-13	-35.59	-67.85	-53.52	5.50	12.58	H
	3320	-53.21	-13	-40.21	-73.99	-57.68	5.98	12.60	H
	3984	-50.55	-13	-37.55	-74.34	-53.98	7.10	12.68	H
	1328	-56.07	-13	-43.07	-67.47	-59.30	3.98	9.36	V
	1992	-49.52	-13	-36.52	-66.04	-53.07	4.85	10.55	V
	2656	-46.80	-13	-33.80	-66.44	-51.73	5.50	12.58	V
	3320	-52.55	-13	-39.55	-74.03	-57.02	5.98	12.60	V
	3984	-49.07	-13	-36.07	-73.99	-52.50	7.10	12.68	V
Middle	1343	-57.42	-13	-44.42	-67.94	-60.67	4.00	9.40	H
	2014.5	-45.46	-13	-32.46	-62.39	-49.03	4.88	10.60	H
	2686	-47.08	-13	-34.08	-66.29	-52.01	5.52	12.60	H
	3357.5	-53.62	-13	-40.62	-74.17	-58.09	6.00	12.62	H
	4029	-54.75	-13	-41.75	-78.15	-58.16	7.14	12.70	H
	1343	-55.38	-13	-42.38	-66.85	-58.63	4.00	9.40	V
	2014.5	-52.67	-13	-39.67	-69.49	-56.24	4.88	10.60	V
	2686	-44.22	-13	-31.22	-63.89	-49.15	5.52	12.60	V
	3357.5	-52.36	-13	-39.36	-73.56	-56.83	6.00	12.62	V
	4029	-49.09	-13	-36.09	-73.87	-52.50	7.14	12.70	V
Highest	1358	-60.90	-13	-47.90	-71.47	-64.07	4.10	9.42	H
	2037	-51.01	-13	-38.01	-68.03	-54.59	4.90	10.63	H
	2716	-47.76	-13	-34.76	-66.90	-52.68	5.55	12.62	H
	1358	-56.14	-13	-43.14	-67.69	-59.31	4.10	9.42	V
	2037	-51.06	-13	-38.06	-67.95	-54.64	4.90	10.63	V
	2716	-46.33	-13	-33.33	-66.02	-51.25	5.55	12.62	V

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