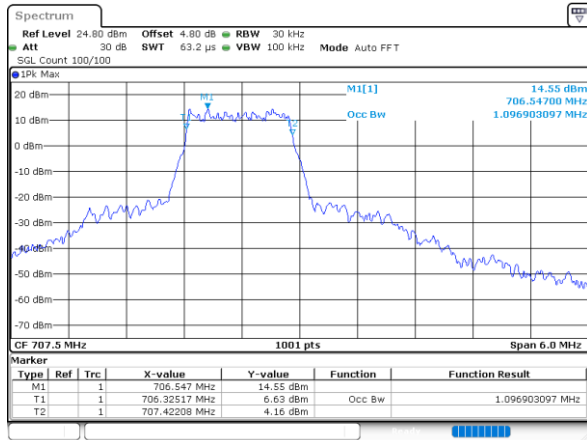


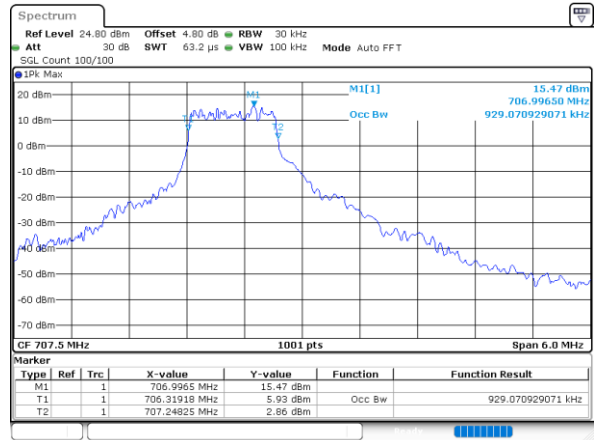


LTE Band 12

Middle Channel / 3MHz / QPSK

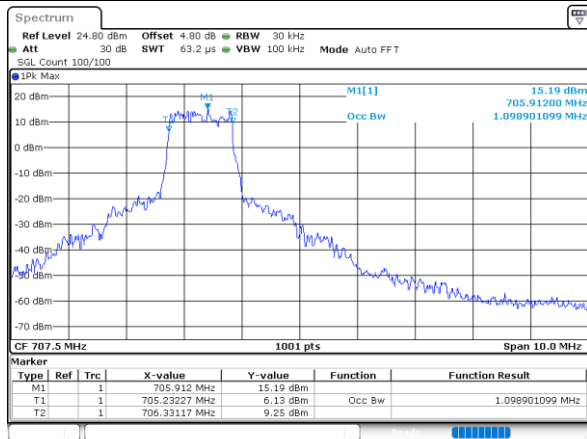


Middle Channel / 3MHz / 16QAM

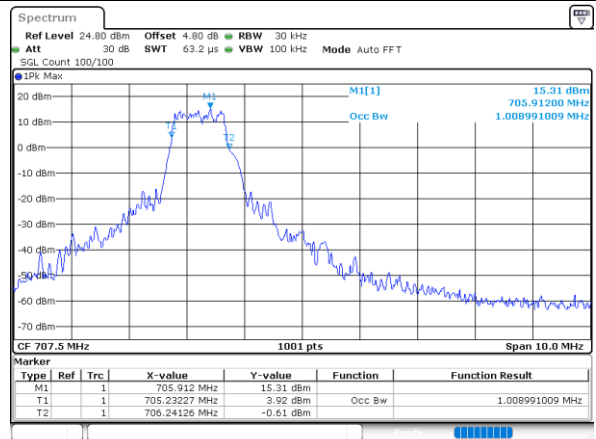


LTE Band 12

Middle Channel / 5MHz / QPSK

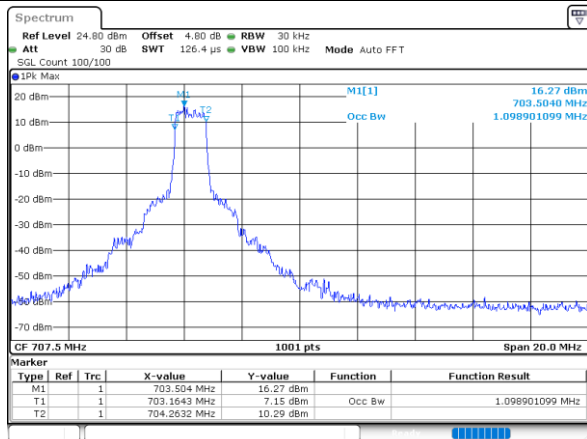


Middle Channel / 5MHz / 16QAM

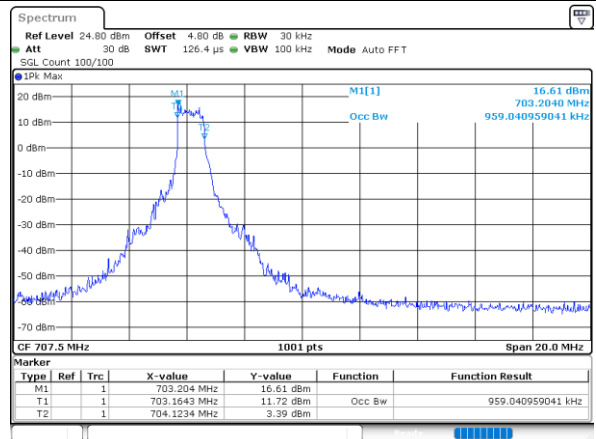


LTE Band 12

Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM

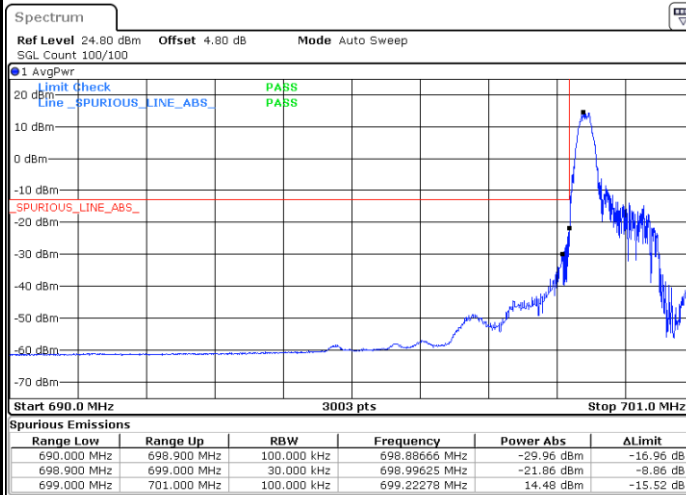




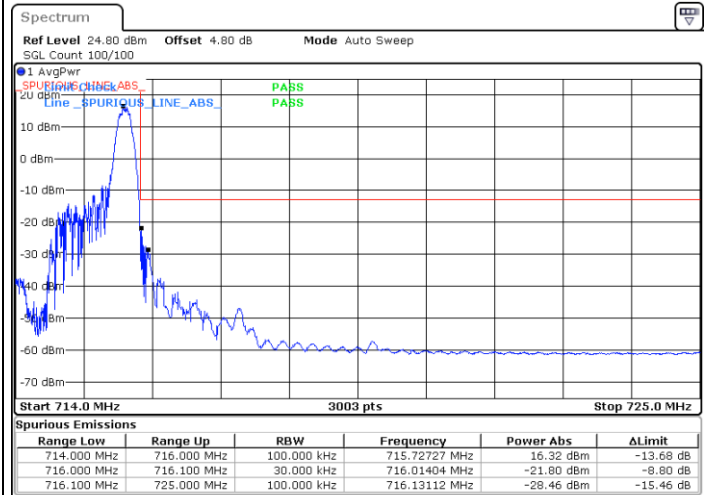
Conducted Band Edge

LTE Band 12 / 1.4MHz / QPSK

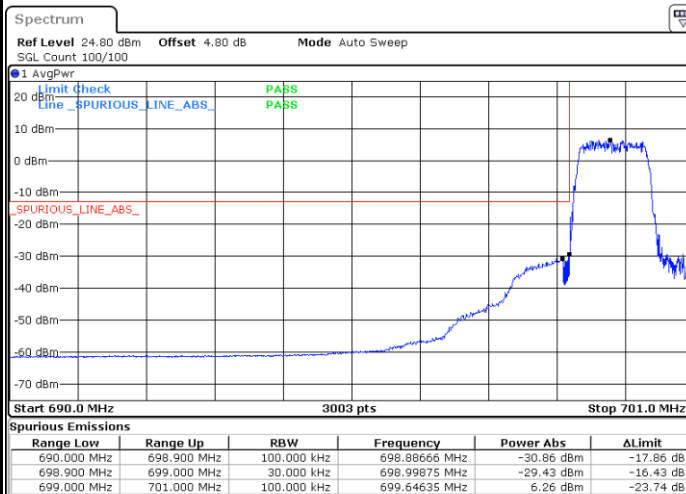
Lowest Band Edge / 1RB



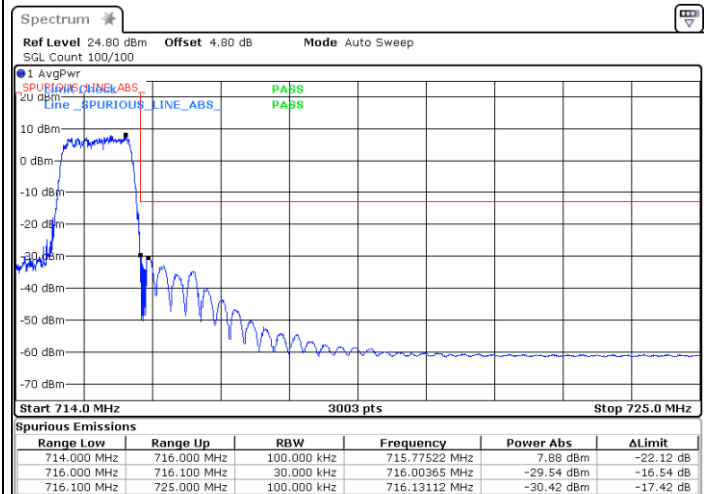
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB



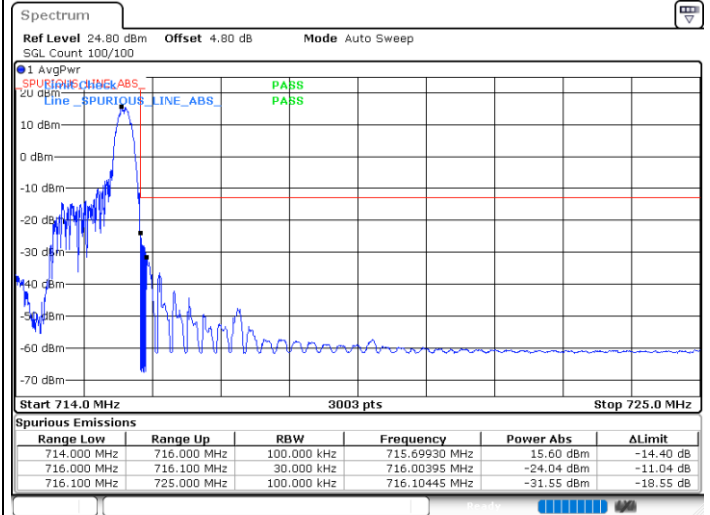


LTE Band 12 / 1.4MHz / 16QAM

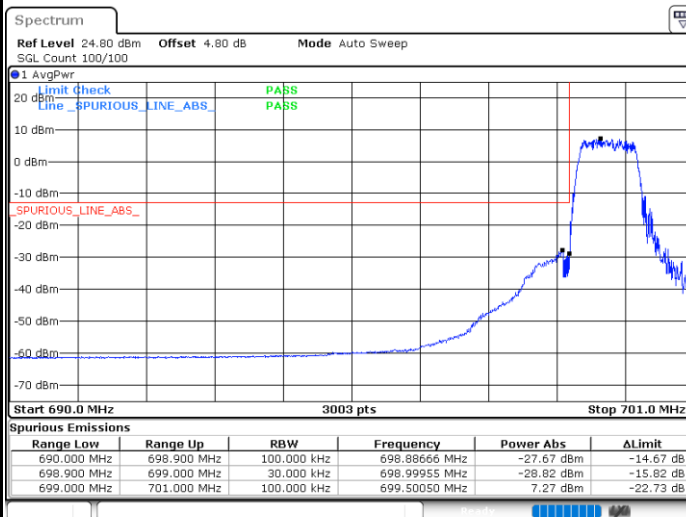
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



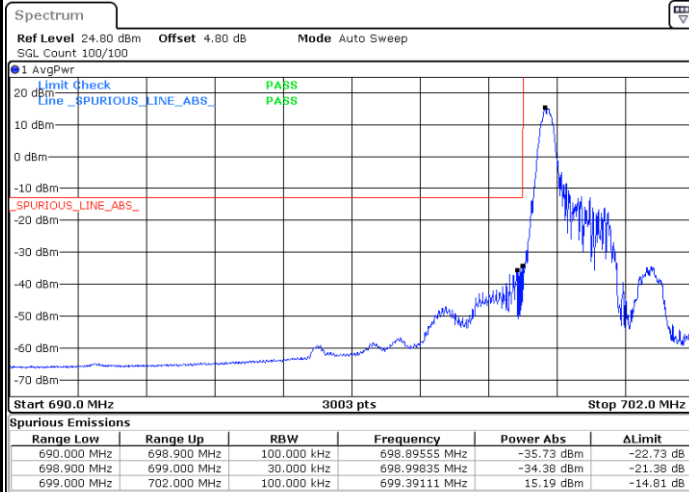
Highest Band Edge / Full RB



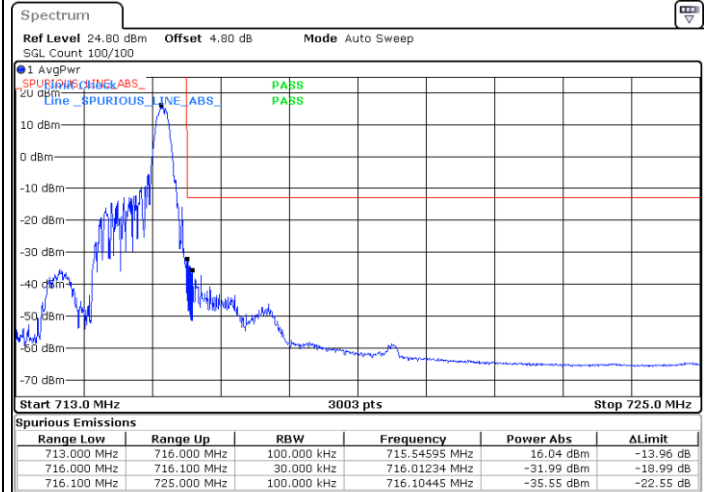


LTE Band 12 / 3MHz / QPSK

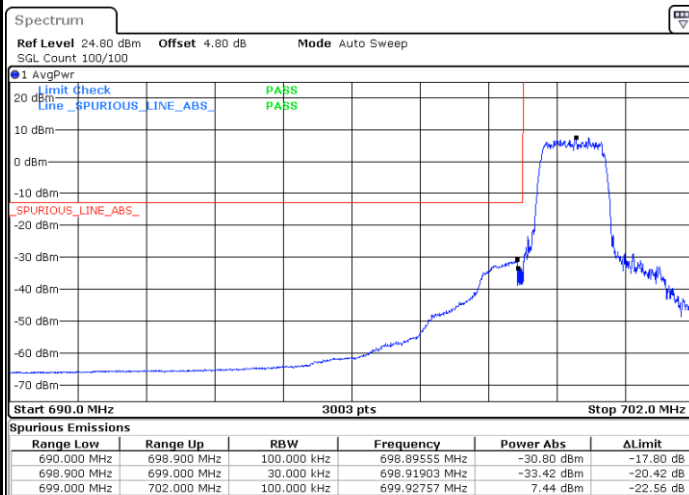
Lowest Band Edge / 1RB



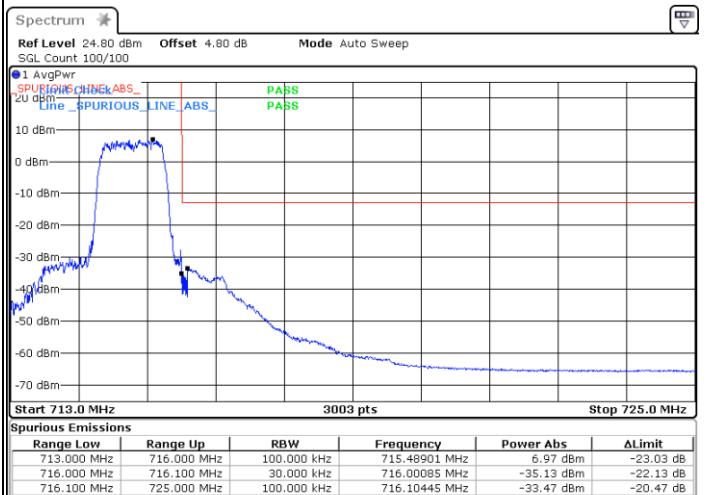
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



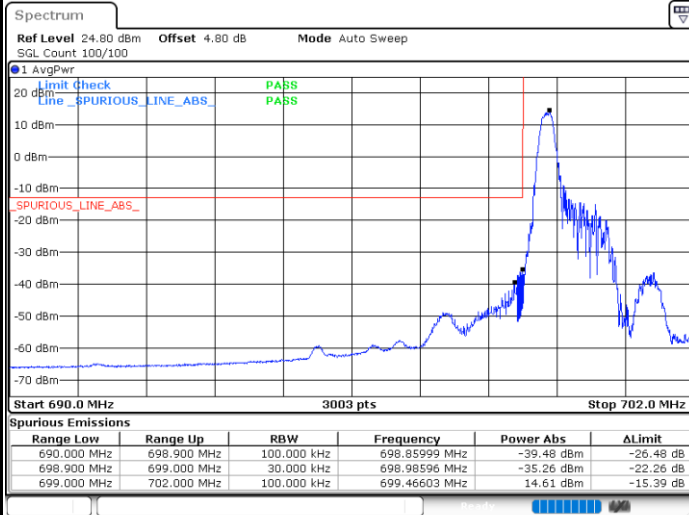
Highest Band Edge / Full RB





LTE Band 12 / 3MHz / 16QAM

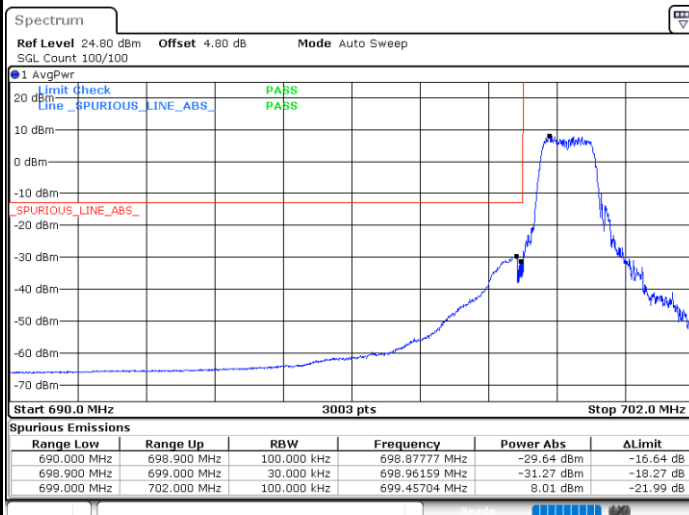
Lowest Band Edge / 1 RB



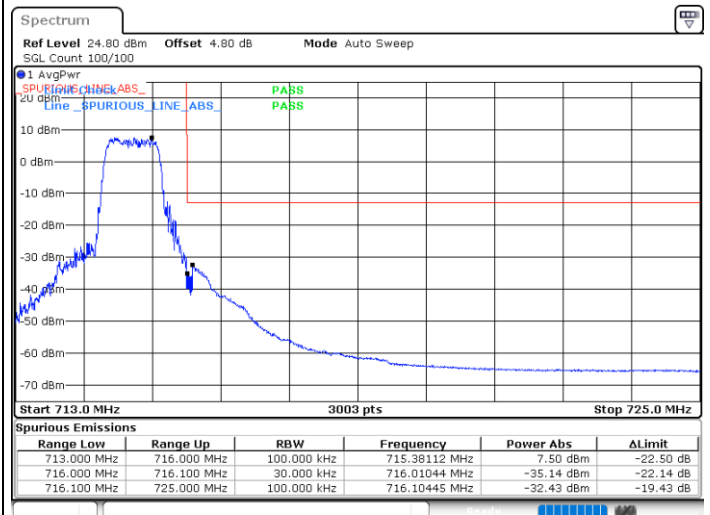
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



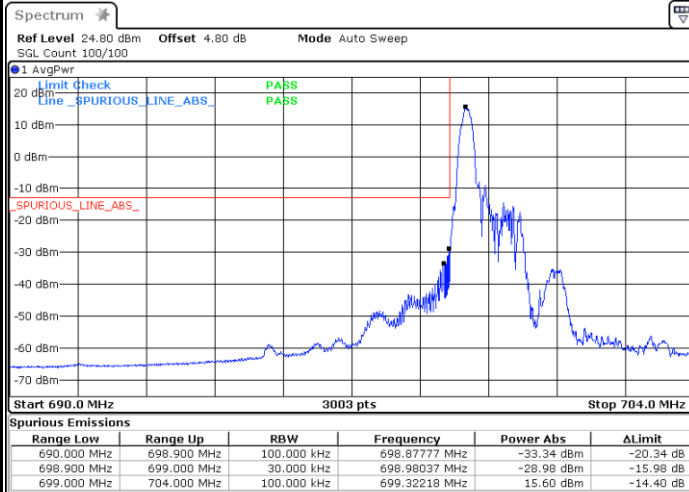
Highest Band Edge / Full RB



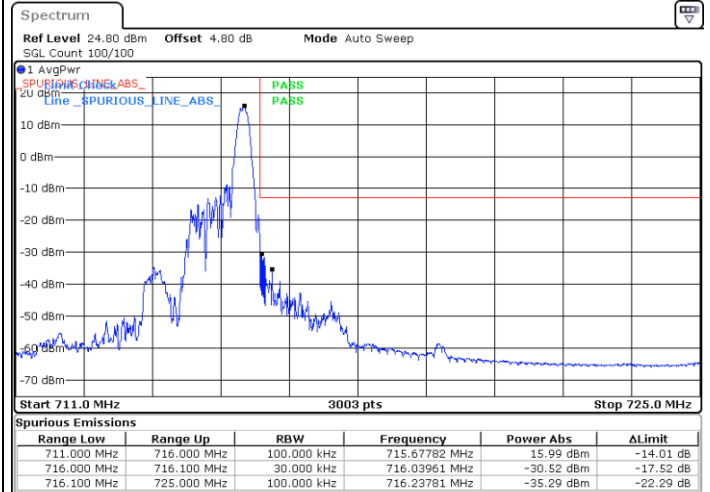


LTE Band 12 / 5MHz / QPSK

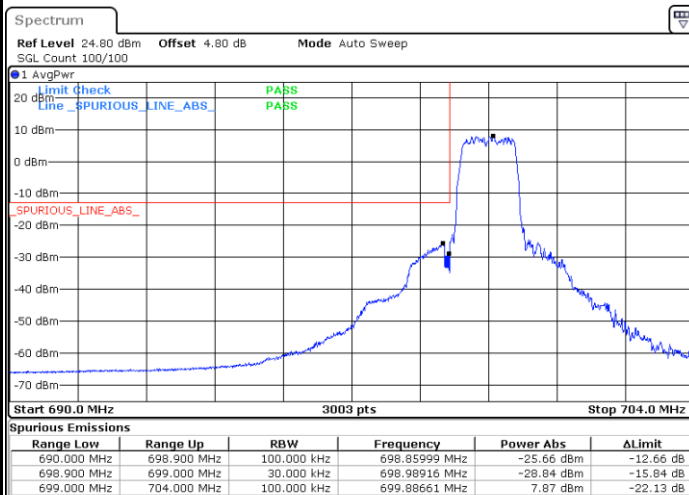
Lowest Band Edge / 1 RB



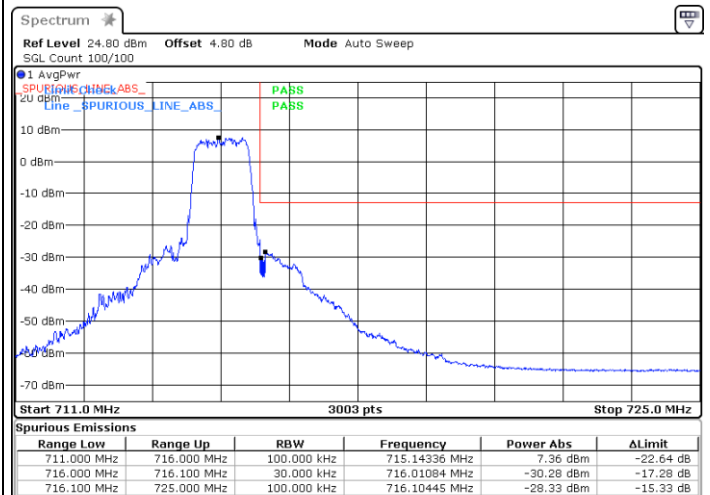
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



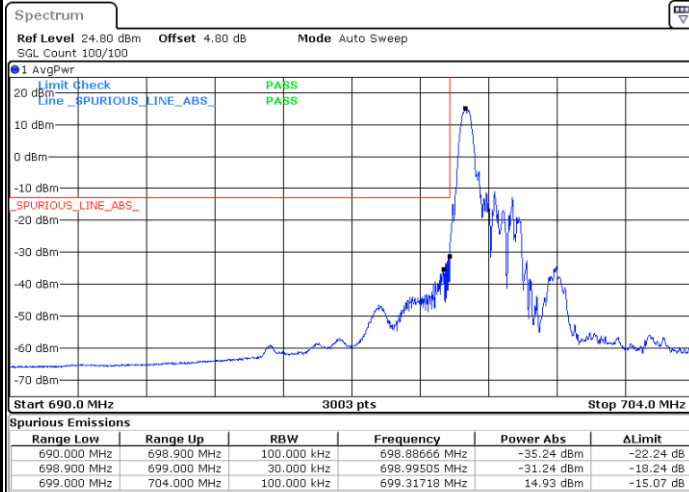
Highest Band Edge / Full RB



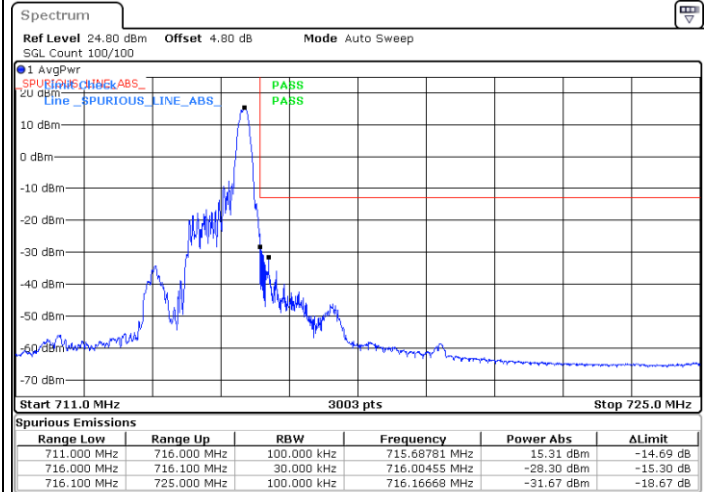


LTE Band 12 / 5MHz / 16QAM

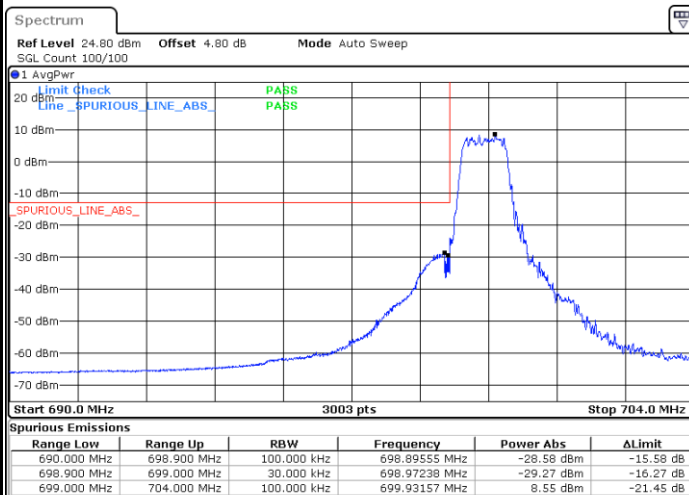
Lowest Band Edge / 1RB



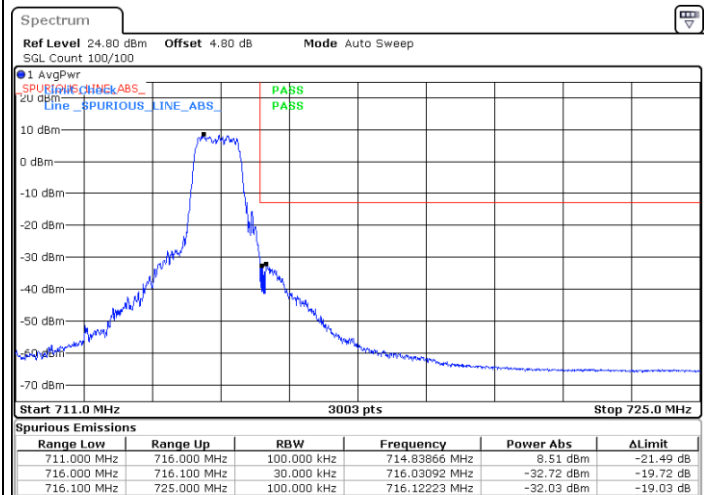
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



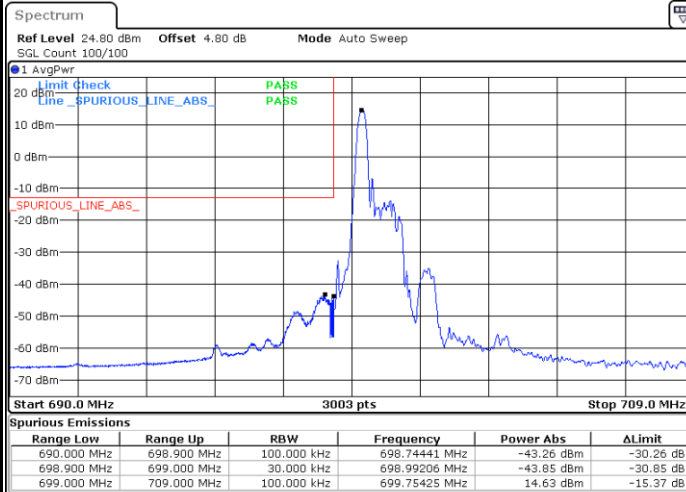
Highest Band Edge / Full RB





LTE Band 12 / 10MHz / QPSK

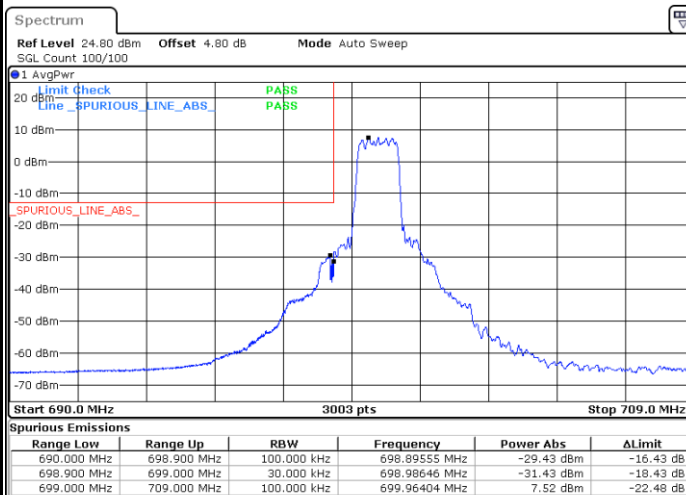
Lowest Band Edge / 1 RB



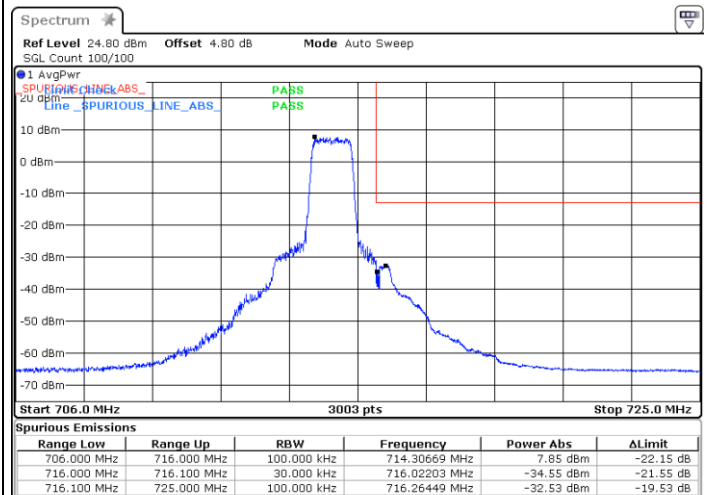
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB





LTE Band 12 / 10MHz / 16QAM

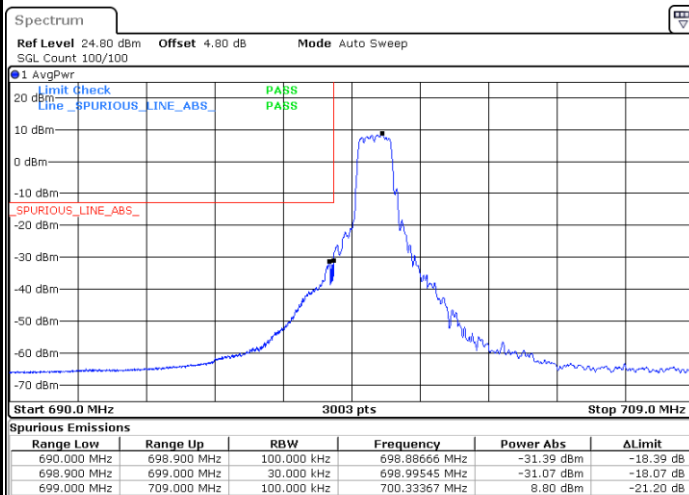
Lowest Band Edge / 1 RB



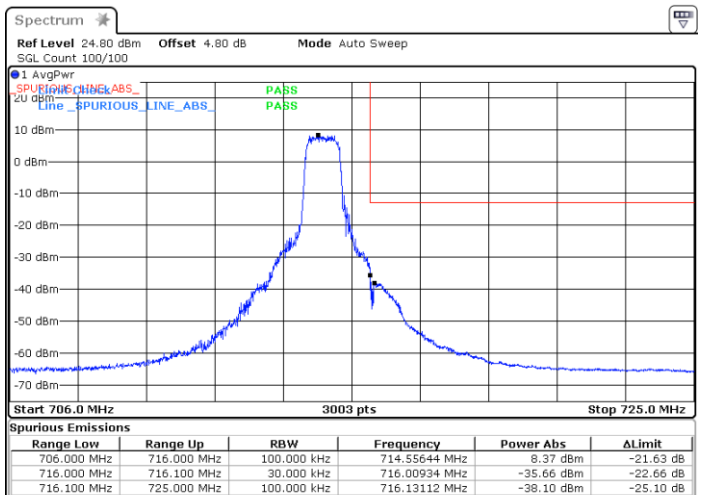
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

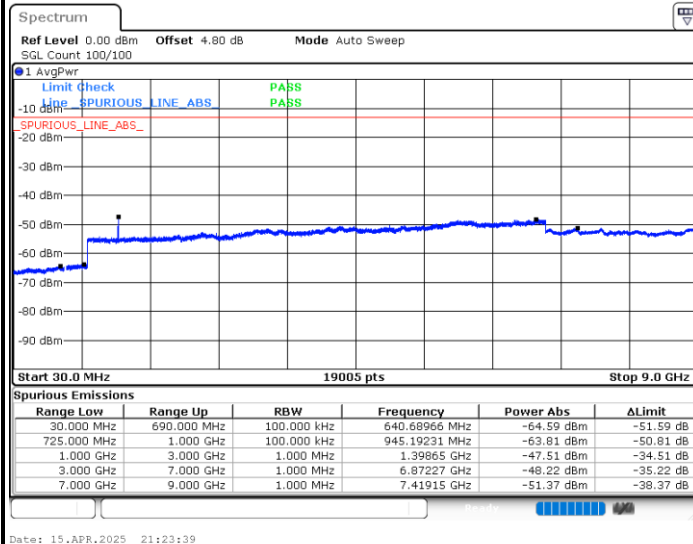




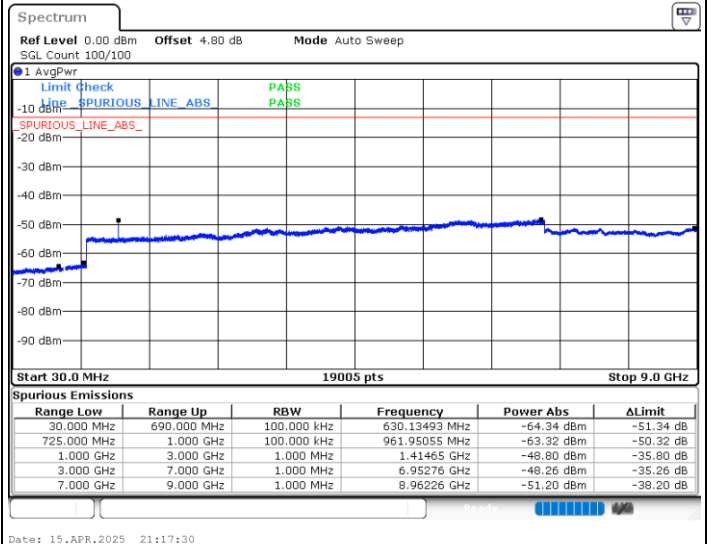
Conducted Spurious Emission

LTE Band 12 / 1.4MHz

Lowest Channel / QPSK

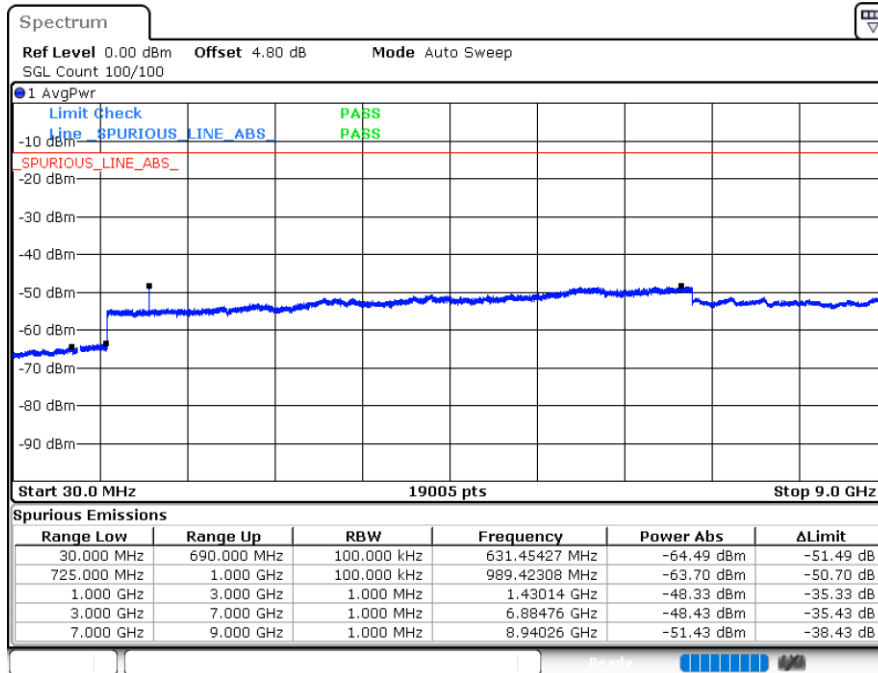


Middle Channel / QPSK





Highest Channel / QPSK



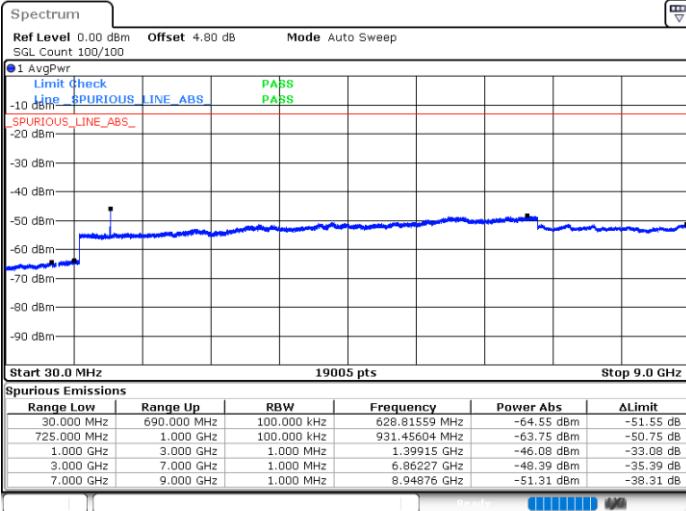
Date: 15.APR.2025 21:51:42



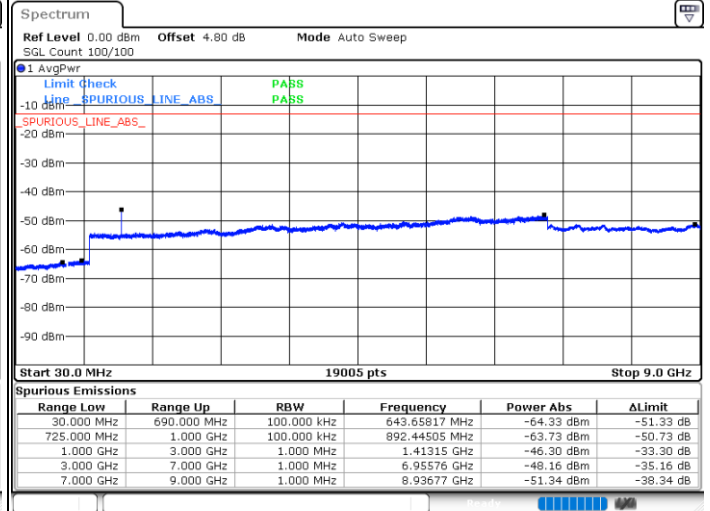
LTE Band 12 / 3MHz

Lowest Channel / QPSK

Middle Channel / QPSK

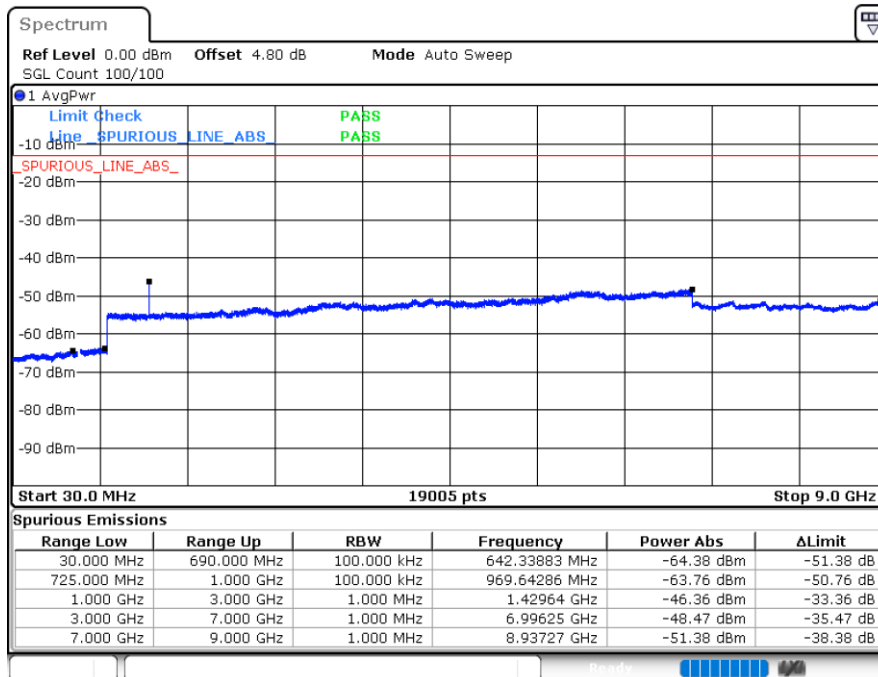


Date: 15.APR.2025 22:02:05



Date: 15.APR.2025 21:59:35

Highest Channel / QPSK

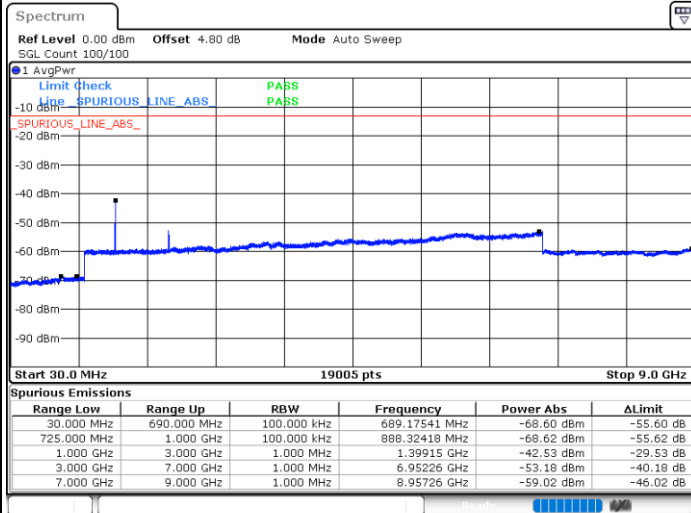


Date: 15.APR.2025 23:00:34

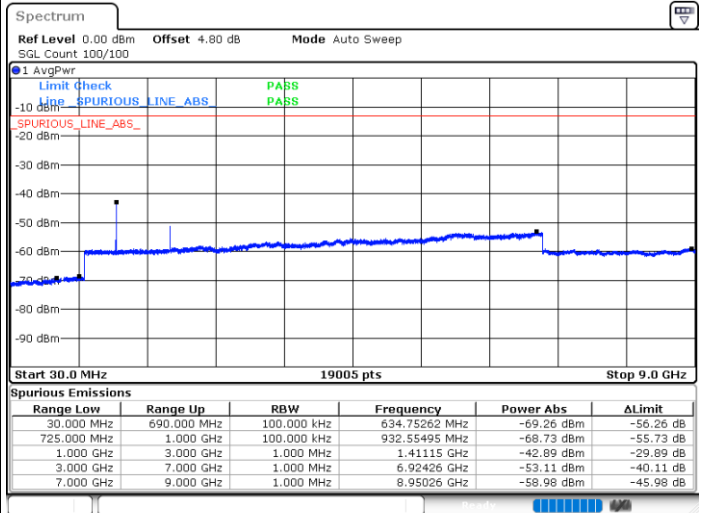


LTE Band 12 / 5MHz

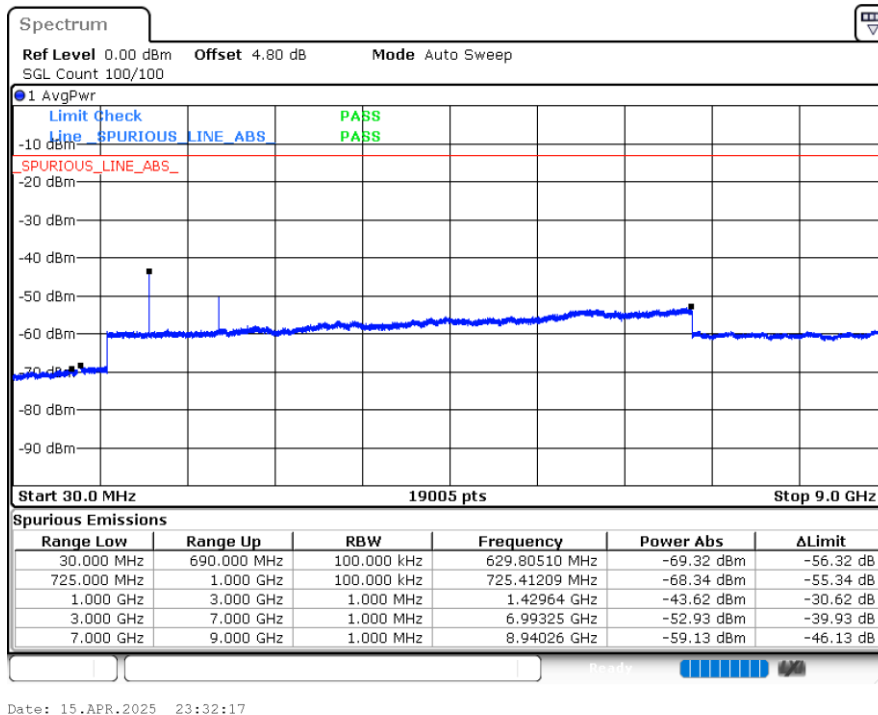
Lowest Channel / QPSK



Middle Channel / QPSK



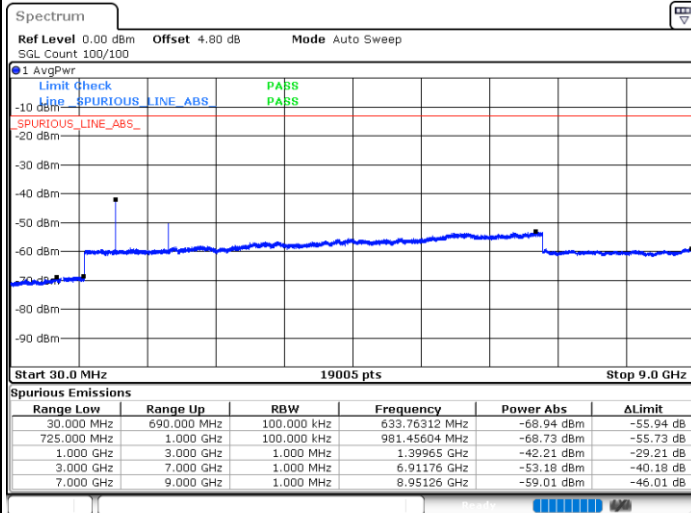
Highest Channel / QPSK



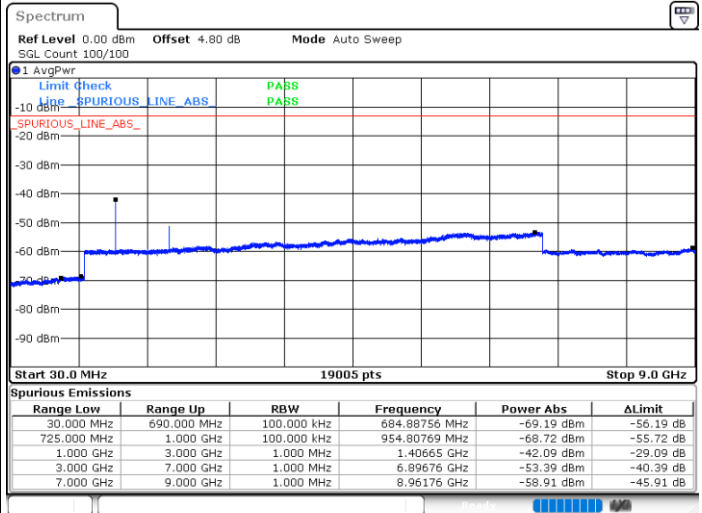


LTE Band 12 / 10MHz

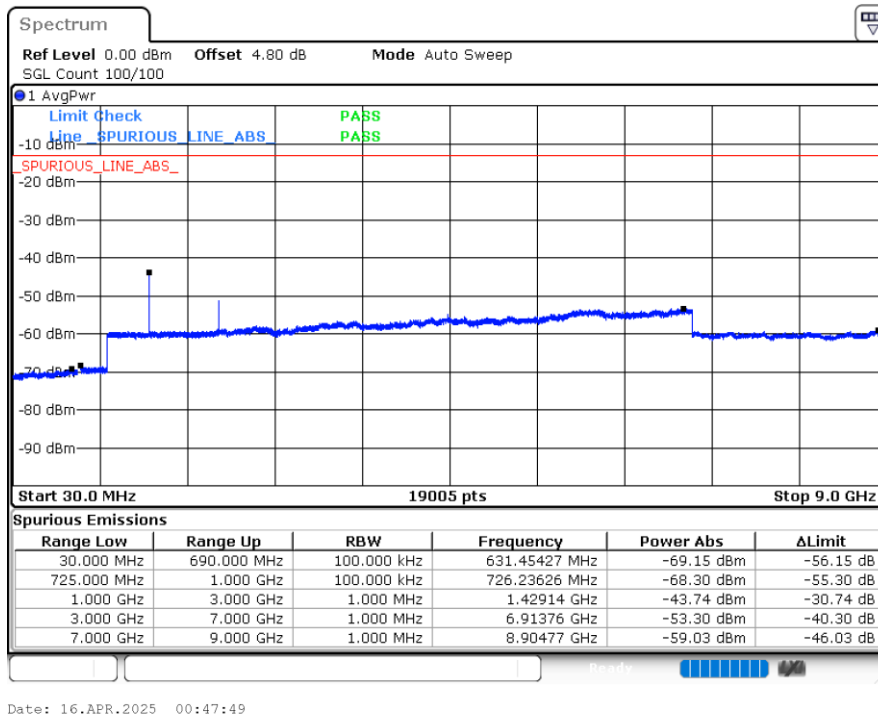
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK



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	0.0029	PASS
40	Normal Voltage	0.0043	
30	Normal Voltage	0.0022	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0061	
0	Normal Voltage	0.0066	
-10	Normal Voltage	0.0074	
-20	Normal Voltage	0.0095	
-30	Normal Voltage	0.0016	
20	Maximum Voltage	0.0037	
20	Normal Voltage	0.0052	
20	Battery End Point	0.0008	

Note:

1. Normal Voltage = 3.89 V.; Battery End Point (BEP) =3.1 V.; Maximum Voltage = 4.48 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Jake	Temperature :	21~25°C
		Relative Humidity :	51~53%

LTE Band 2 / 20MHz / QPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3750	-51.96	-13	-38.96	-64.22	2.64	14.90	H
	5610	-54.85	-13	-41.85	-66.71	2.94	14.80	H
	7485	-56.26	-13	-43.26	-66.03	3.39	13.16	H
	3750	-53.86	-13	-40.86	-66.12	2.64	14.90	V
	5610	-56.94	-13	-43.94	-68.80	2.94	14.80	V
	7485	-56.34	-13	-43.34	-66.11	3.39	13.16	V

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

LTE Band 4 / 20MHz / QPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3450	-61.11	-13	-48.11	-71.85	2.604	13.34	H
	5175	-57.02	-13	-44.02	-67.53	3.011	13.52	H
	6900	-57.73	-13	-44.73	-67.93	3.271	13.47	H
	3450	-61.45	-13	-48.45	-72.19	2.604	13.34	V
	5175	-56.84	-13	-43.84	-67.35	3.011	13.52	V
	6900	-57.28	-13	-44.28	-67.48	3.271	13.47	V

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

LTE Band 12 / 10MHz / QPSK								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1408	-67.40	-13	-54.40	-69.54	1.58	5.87	H
	2112	-60.59	-13	-47.59	-62.26	2.102	5.92	H
	2808	-60.33	-13	-47.33	-63.00	2.856	7.68	H
	1408	-68.11	-13	-55.11	-70.25	1.58	5.87	V
	2112	-61.08	-13	-48.08	-62.75	2.10	5.92	V
	2808	-59.96	-13	-46.96	-62.63	2.86	7.68	V

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