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# Appendix B.10

LTE Band 26(814-824)



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#### **Transmitter Conducted Power Output**

#### **Test Result**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Limit(dBm)	Verdict
Band26	1.4MHz	QPSK	26697	1RB#0	23.49	50.00	PASS
Band26	1.4MHz	QPSK	26697	1RB#2	23.60	50.00	PASS
Band26	1.4MHz	QPSK	26697	1RB#5	23.49	50.00	PASS
Band26	1.4MHz	QPSK	26697	6RB#0	22.58	50.00	PASS
Band26	1.4MHz	QPSK	26740	1RB#0	23.54	50.00	PASS
Band26	1.4MHz	QPSK	26740	1RB#2	23.63	50.00	PASS
Band26	1.4MHz	QPSK	26740	1RB#5	23.58	50.00	PASS
Band26	1.4MHz	QPSK	26740	6RB#0	22.69	50.00	PASS
Band26	1.4MHz	QPSK	26783	1RB#0	23.57	50.00	PASS
Band26	1.4MHz	QPSK	26783	1RB#2	23.62	50.00	PASS
Band26	1.4MHz	QPSK	26783	1RB#5	23.57	50.00	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	22.67	50.00	PASS
Band26	1.4MHz	16QAM	26697	1RB#0	22.71	50.00	PASS
Band26	1.4MHz	16QAM	26697	1RB#2	22.86	50.00	PASS
Band26	1.4MHz	16QAM	26697	1RB#5	22.74	50.00	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	21.69	50.00	PASS
Band26	1.4MHz	16QAM	26740	1RB#0	22.83	50.00	PASS
Band26	1.4MHz	16QAM	26740	1RB#2	22.86	50.00	PASS
Band26	1.4MHz	16QAM	26740	1RB#5	22.87	50.00	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	21.74	50.00	PASS
Band26	1.4MHz	16QAM	26783	1RB#0	22.78	50.00	PASS
Band26	1.4MHz	16QAM	26783	1RB#2	22.99	50.00	PASS
Band26	1.4MHz	16QAM	26783	1RB#5	22.91	50.00	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	21.71	50.00	PASS
Band26	3MHz	QPSK	26705	1RB#0	23.51	50.00	PASS
Band26	3MHz	QPSK	26705	1RB#8	23.59	50.00	PASS
Band26	3MHz	QPSK	26705	1RB#14	23.47	50.00	PASS



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Band26	3MHz	QPSK	26705	15RB#0	22.68	50.00	PASS
Band26	3MHz	QPSK	26740	1RB#0	23.54	50.00	PASS
Band26	3MHz	QPSK	26740	1RB#8	23.62	50.00	PASS
Band26	3MHz	QPSK	26740	1RB#14	23.62	50.00	PASS
Band26	3MHz	QPSK	26740	15RB#0	22.76	50.00	PASS
Band26	3MHz	QPSK	26775	1RB#0	23.65	50.00	PASS
Band26	3MHz	QPSK	26775	1RB#8	23.66	50.00	PASS
Band26	3MHz	QPSK	26775	1RB#14	23.60	50.00	PASS
Band26	3MHz	QPSK	26775	15RB#0	22.72	50.00	PASS
Band26	3MHz	16QAM	26705	1RB#0	22.79	50.00	PASS
Band26	3MHz	16QAM	26705	1RB#8	22.77	50.00	PASS
Band26	3MHz	16QAM	26705	1RB#14	22.76	50.00	PASS
Band26	3MHz	16QAM	26705	15RB#0	21.65	50.00	PASS
Band26	3MHz	16QAM	26740	1RB#0	22.83	50.00	PASS
Band26	3MHz	16QAM	26740	1RB#8	22.80	50.00	PASS
Band26	3MHz	16QAM	26740	1RB#14	22.88	50.00	PASS
Band26	3MHz	16QAM	26740	15RB#0	21.77	50.00	PASS
Band26	3MHz	16QAM	26775	1RB#0	22.84	50.00	PASS
Band26	3MHz	16QAM	26775	1RB#8	22.92	50.00	PASS
Band26	3MHz	16QAM	26775	1RB#14	22.87	50.00	PASS
Band26	3MHz	16QAM	26775	15RB#0	21.74	50.00	PASS
Band26	5MHz	QPSK	26715	1RB#0	23.56	50.00	PASS
Band26	5MHz	QPSK	26715	1RB#12	23.57	50.00	PASS
Band26	5MHz	QPSK	26715	1RB#24	23.63	50.00	PASS
Band26	5MHz	QPSK	26715	25RB#0	22.74	50.00	PASS
Band26	5MHz	QPSK	26740	1RB#0	23.62	50.00	PASS
Band26	5MHz	QPSK	26740	1RB#12	23.69	50.00	PASS
Band26	5MHz	QPSK	26740	1RB#24	23.59	50.00	PASS
Band26	5MHz	QPSK	26740	25RB#0	22.75	50.00	PASS
Band26	5MHz	QPSK	26765	1RB#0	23.68	50.00	PASS
Band26	5MHz	QPSK	26765	1RB#12	23.66	50.00	PASS
Band26	5MHz	QPSK	26765	1RB#24	23.59	50.00	PASS
Band26	5MHz	QPSK	26765	25RB#0	22.69	50.00	PASS



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Band26	5MHz	16QAM	26715	1RB#0	22.89	50.00	PASS
Band26	5MHz	16QAM	26715	1RB#12	22.83	50.00	PASS
Band26	5MHz	16QAM	26715	1RB#24	22.90	50.00	PASS
Band26	5MHz	16QAM	26715	25RB#0	21.76	50.00	PASS
Band26	5MHz	16QAM	26740	1RB#0	22.78	50.00	PASS
Band26	5MHz	16QAM	26740	1RB#12	22.88	50.00	PASS
Band26	5MHz	16QAM	26740	1RB#24	22.83	50.00	PASS
Band26	5MHz	16QAM	26740	25RB#0	21.76	50.00	PASS
Band26	5MHz	16QAM	26765	1RB#0	22.91	50.00	PASS
Band26	5MHz	16QAM	26765	1RB#12	22.89	50.00	PASS
Band26	5MHz	16QAM	26765	1RB#24	22.85	50.00	PASS
Band26	5MHz	16QAM	26765	25RB#0	21.74	50.00	PASS
Band26	10MHz	QPSK	26740	1RB#0	23.65	50.00	PASS
Band26	10MHz	QPSK	26740	1RB#24	23.65	50.00	PASS
Band26	10MHz	QPSK	26740	1RB#49	23.64	50.00	PASS
Band26	10MHz	QPSK	26740	50RB#0	22.78	50.00	PASS
Band26	10MHz	16QAM	26740	1RB#0	22.94	50.00	PASS
Band26	10MHz	16QAM	26740	1RB#24	22.80	50.00	PASS
Band26	10MHz	16QAM	26740	1RB#49	22.90	50.00	PASS
Band26	10MHz	16QAM	26740	50RB#0	21.73	50.00	PASS



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#### Peak-to-Average Ratio(CCDF)

#### **Test Result**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	5.38	13	PASS
Band26	10MHz	16QAM	26740	50RB#0	6.12	13	PASS



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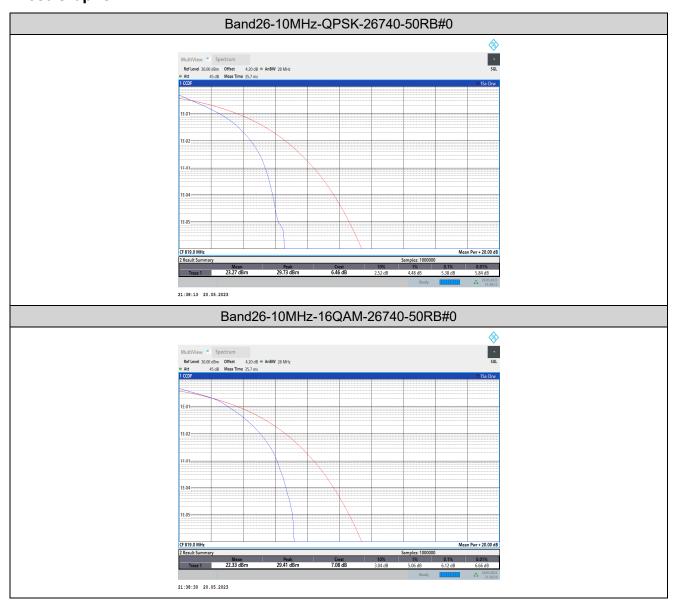


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#### **Test Graphs**





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#### 26dB Bandwidth and Occupied Bandwidth

#### **Test Result**

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band26	1.4MHz	QPSK	26697	6RB#0	1.084	1.23	PASS
Band26	1.4MHz	QPSK	26740	6RB#0	1.084	1.23	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	1.085	1.23	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	1.091	1.24	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	1.091	1.24	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	1.091	1.24	PASS
Band26	3MHz	QPSK	26705	15RB#0	2.692	2.97	PASS
Band26	3MHz	QPSK	26740	15RB#0	2.699	2.98	PASS
Band26	3MHz	QPSK	26775	15RB#0	2.695	2.97	PASS
Band26	3MHz	16QAM	26705	15RB#0	2.690	2.99	PASS
Band26	3MHz	16QAM	26740	15RB#0	2.687	2.99	PASS
Band26	3MHz	16QAM	26775	15RB#0	2.689	2.98	PASS
Band26	5MHz	QPSK	26715	25RB#0	4.473	4.89	PASS
Band26	5MHz	QPSK	26740	25RB#0	4.470	4.88	PASS
Band26	5MHz	QPSK	26765	25RB#0	4.474	4.89	PASS
Band26	5MHz	16QAM	26715	25RB#0	4.471	4.92	PASS
Band26	5MHz	16QAM	26740	25RB#0	4.468	4.91	PASS
Band26	5MHz	16QAM	26765	25RB#0	4.468	4.89	PASS
Band26	10MHz	QPSK	26740	50RB#0	8.939	9.64	PASS
Band26	10MHz	16QAM	26740	50RB#0	8.911	9.66	PASS



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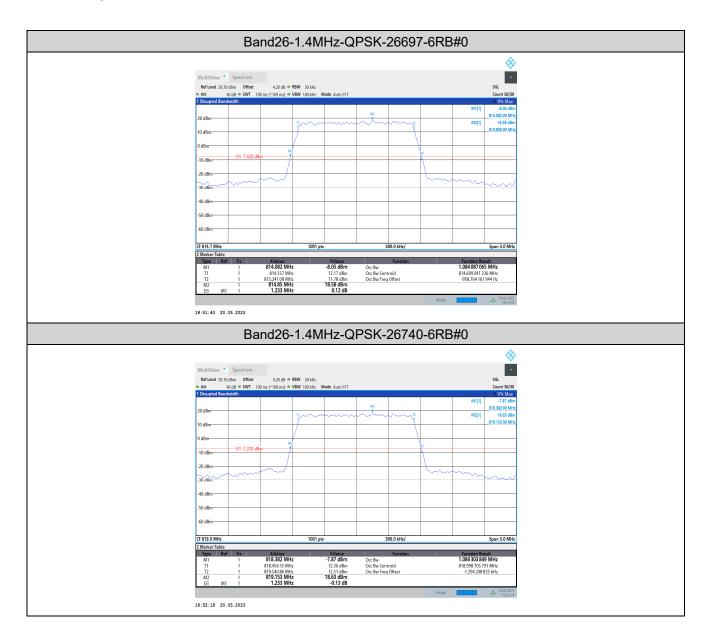


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#### **Test Graphs**





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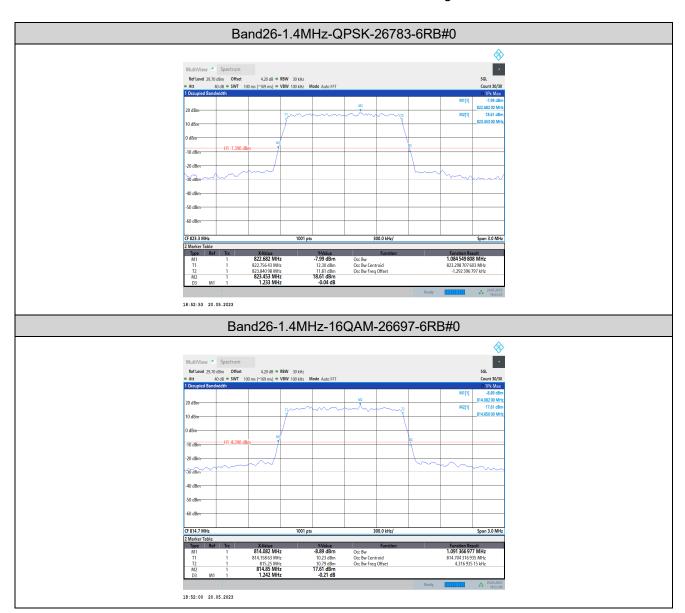
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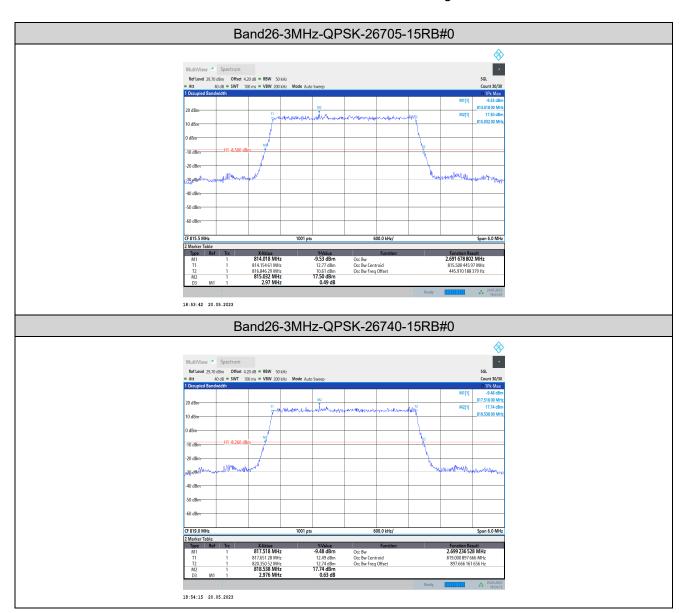
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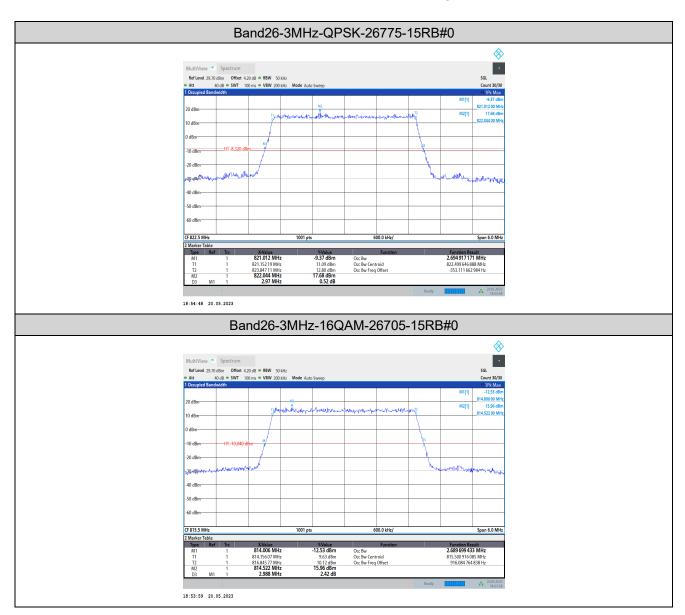
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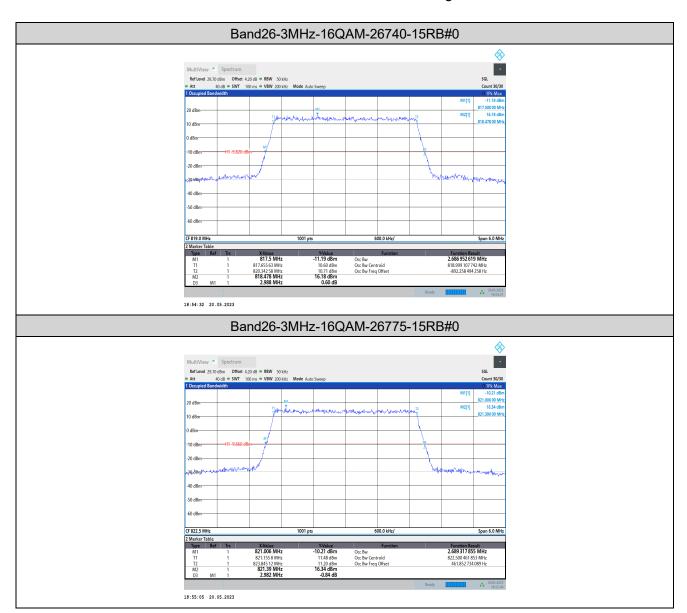
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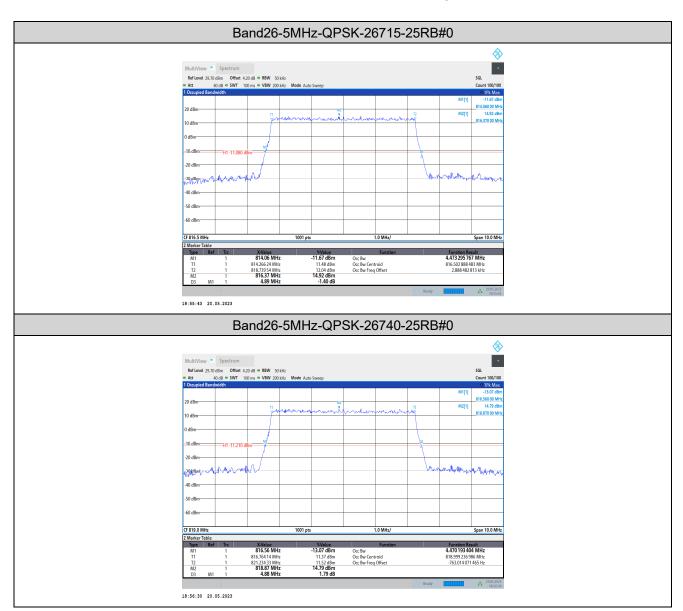
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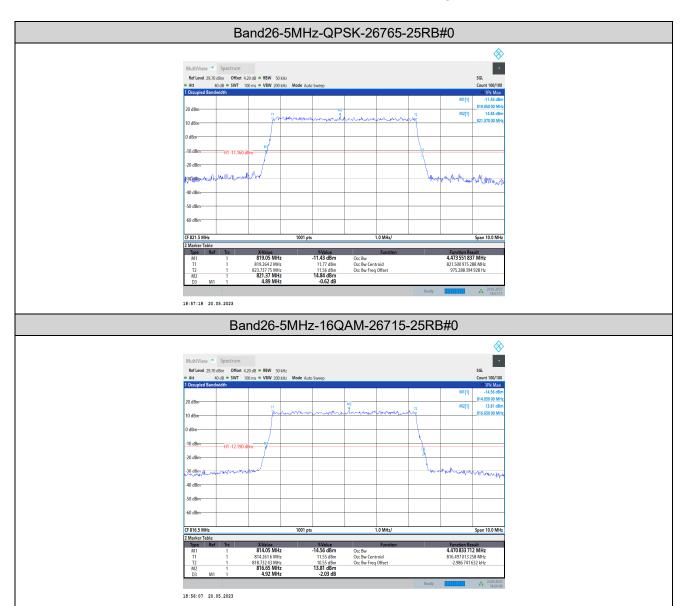
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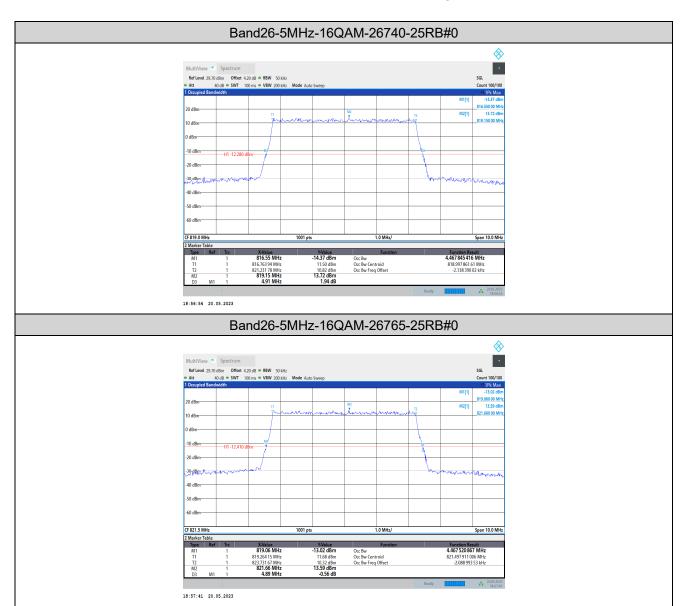
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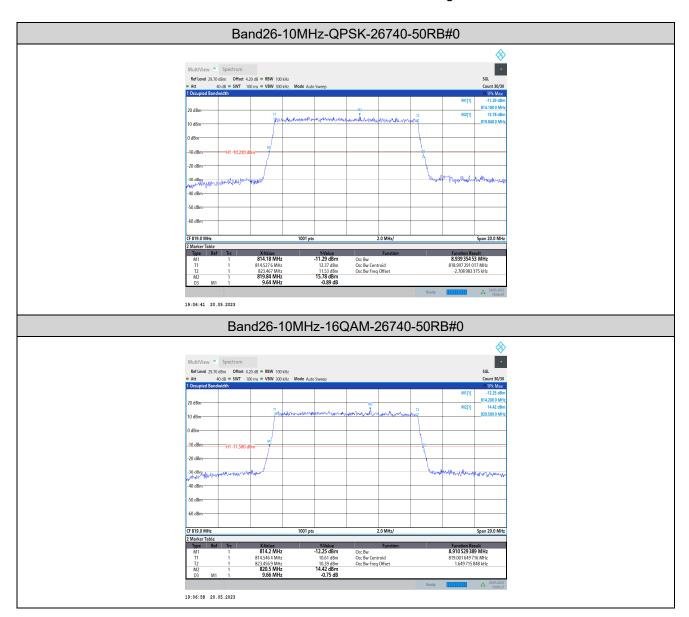
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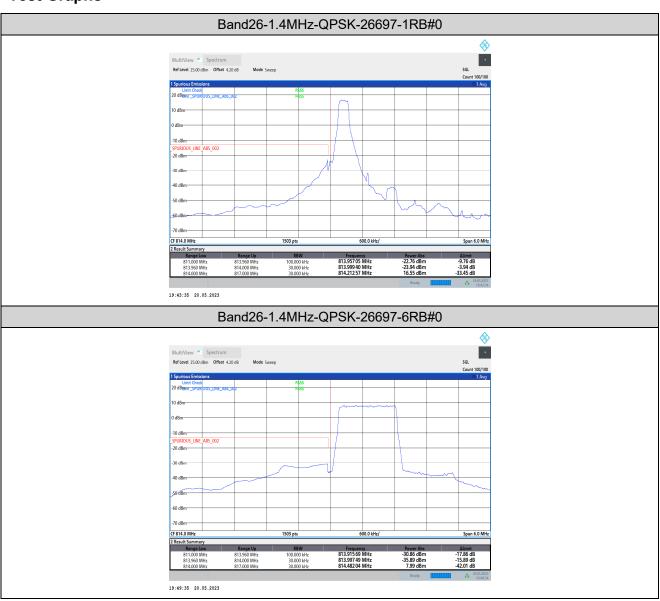
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#### **Band Edge**

#### **Test Graphs**





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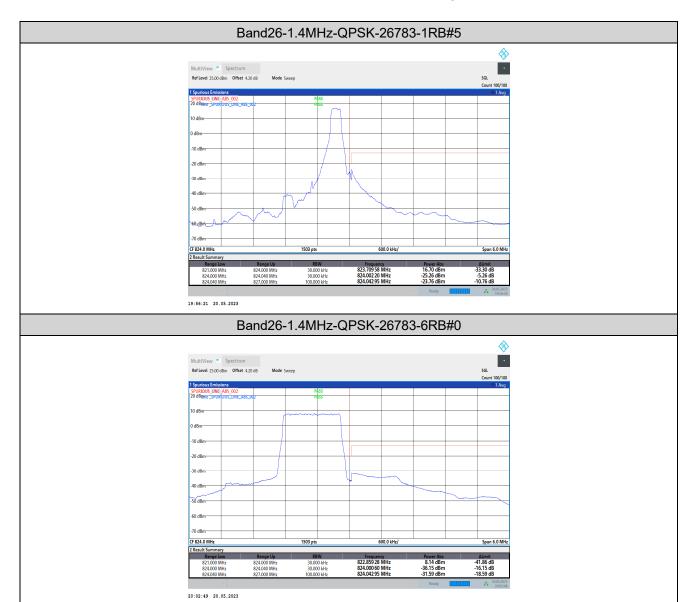
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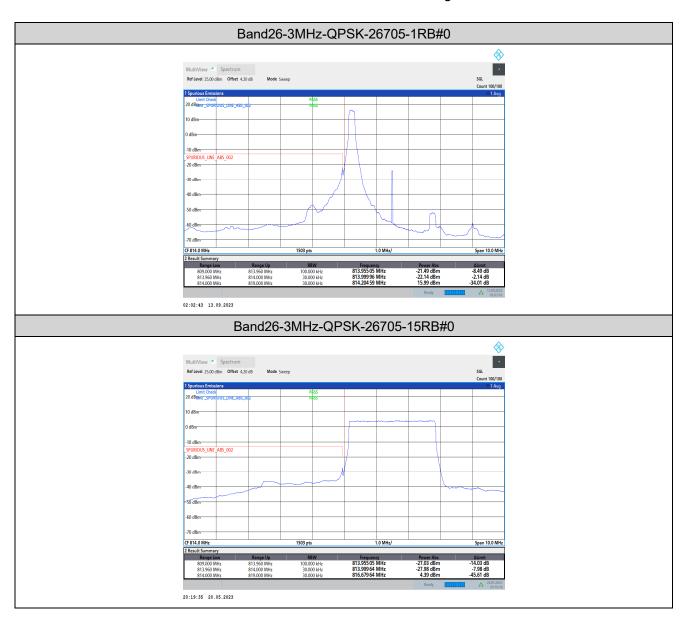
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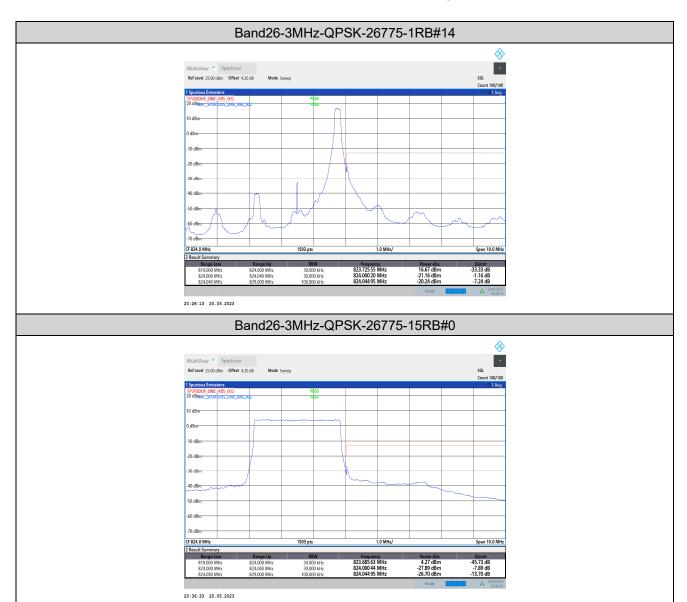
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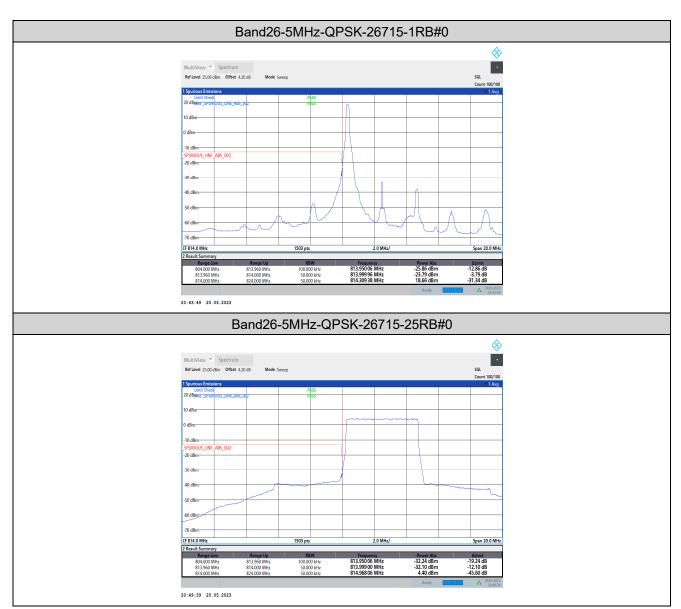
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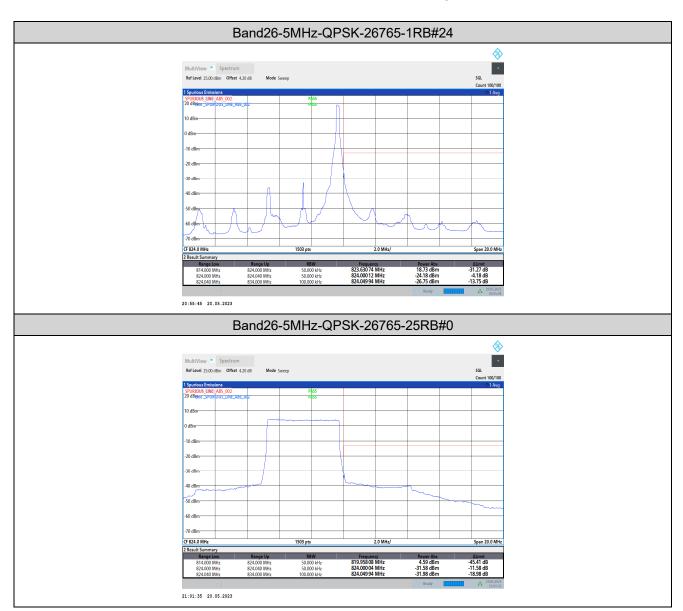
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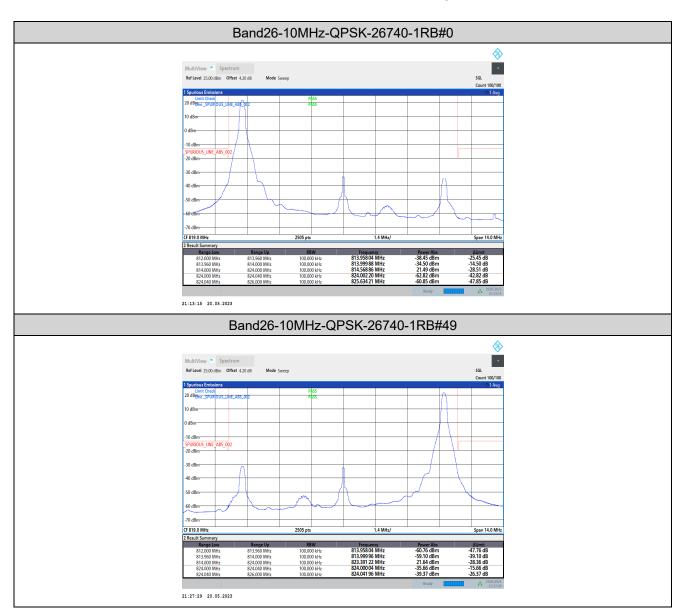
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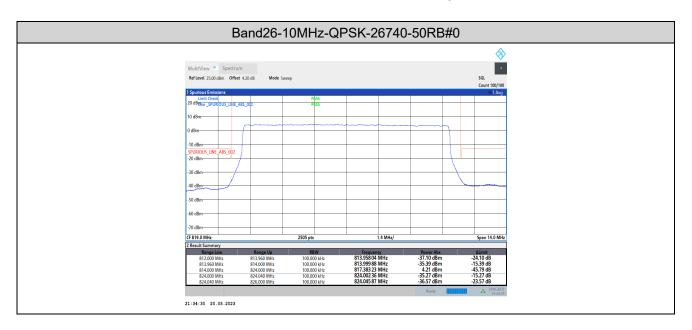
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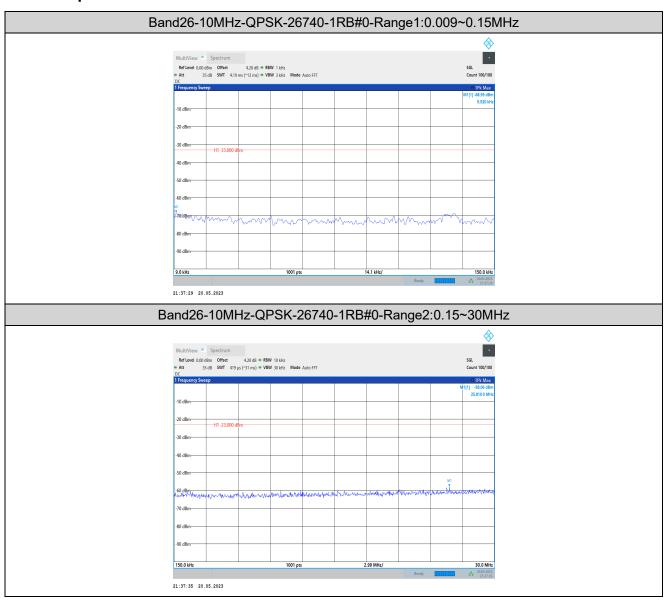
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#### **Conducted Spurious Emission**

#### **Test Graphs**





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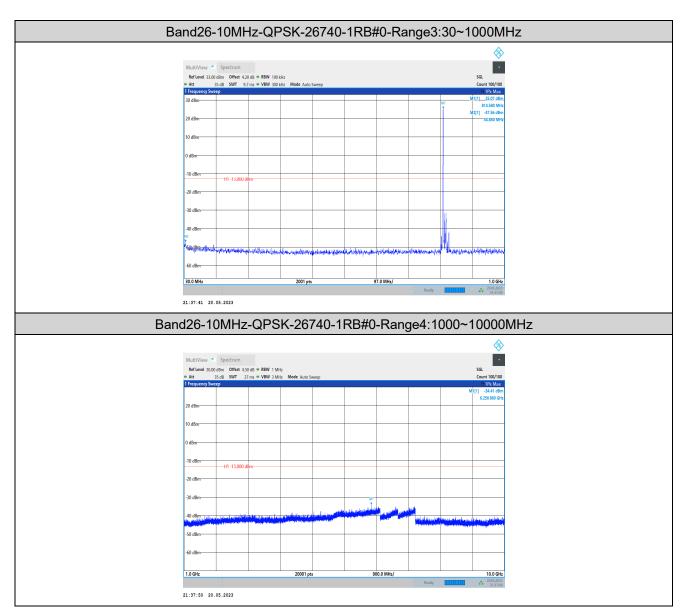
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#### **Field Strength of Spurious Radiation**

## Test Band = LTE Band 26 BW 10M\_ TM1 Test Channel = Mid Channel

Final	Final Data List											
NO.	Frequency	Reading	Factor	Λ Γ[dD/ma]	Level	Limit	Margin	Height	Angle	Delevity		
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity		
1	1629.18	46.21	-48.44	25.59	-71.90	-13.00	58.90	196	298	Horizontal		
2	2443.77	42.97	-47.22	27.79	-71.72	-13.00	58.72	265	282	Horizontal		
3	3258.36	43.16	-46.18	29.50	-68.78	-13.00	55.78	284	31	Horizontal		
4	4072.95	42.04	-45.43	30.72	-67.94	-13.00	54.94	142	359	Horizontal		
5	4887.54	40.72	-45.08	32.33	-67.29	-13.00	54.29	263	110	Horizontal		
6	5702.13	40.51	-43.56	33.25	-65.06	-13.00	52.06	225	110	Horizontal		

Final	Final Data List											
NO.	Frequency	Reading	Factor	Λ Γ[dD/ma]	Level	Limit	Margin	Height	Angle	Dolovity		
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity		
1	1629.18	49.52	-48.44	25.59	-68.59	-13.00	55.59	102	279	Vertical		
2	2443.77	44.42	-47.22	27.79	-70.27	-13.00	57.27	265	78	Vertical		
3	3258.36	42.61	-46.18	29.50	-69.33	-13.00	56.33	284	359	Vertical		
4	4072.95	42.20	-45.43	30.72	-67.78	-13.00	54.78	142	251	Vertical		
5	4887.54	39.64	-45.08	32.33	-68.37	-13.00	55.37	263	200	Vertical		
6	5702.13	39.95	-43.56	33.25	-65.62	-13.00	52.62	228	279	Vertical		

#### Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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#### **Frequency Stability**

#### **Test Result**

					Voltage					
Band	Band width	Modulation	Channel	RB Configure	Voltage [Vdc]	Temper ature (°ℂ)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	VL	NT	-3.60	-0.004396	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	VN	NT	-5.60	-0.006838	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	VH	NT	-1.40	-0.001709	±2.5	PASS

				Te	emperature	)				
Band	Band width	Modulation	Channel	RB Configure	Voltage [Vdc]	Temper ature (°ℂ)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	NV	-30	-3.70	-0.004518	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	-20	-4.20	-0.005128	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	-10	-2.30	-0.002808	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	0	-0.70	-0.000855	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	10	-1.00	-0.001221	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	20	-5.50	-0.006716	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	30	-4.80	-0.005861	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	40	-5.50	-0.006716	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	50	-1.00	-0.001221	±2.5	PASS

---End of Attachment---



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