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# Appendix B.11

LTE Band 26(814-824)



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

#### **Test ResultAnt0**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Limit(dBm)	Verdict
Band26	1.4MHz	QPSK	26697	1RB#0	23.35	50.00	PASS
Band26	1.4MHz	QPSK	26697	1RB#2	23.32	50.00	PASS
Band26	1.4MHz	QPSK	26697	1RB#5	23.36	50.00	PASS
Band26	1.4MHz	QPSK	26697	6RB#0	22.38	50.00	PASS
Band26	1.4MHz	QPSK	26740	1RB#0	21.35	50.00	PASS
Band26	1.4MHz	QPSK	26740	1RB#2	23.29	50.00	PASS
Band26	1.4MHz	QPSK	26740	1RB#5	23.34	50.00	PASS
Band26	1.4MHz	QPSK	26740	6RB#0	22.39	50.00	PASS
Band26	1.4MHz	QPSK	26783	1RB#0	21.40	50.00	PASS
Band26	1.4MHz	QPSK	26783	1RB#2	23.34	50.00	PASS
Band26	1.4MHz	QPSK	26783	1RB#5	23.30	50.00	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	22.35	50.00	PASS
Band26	1.4MHz	16QAM	26697	1RB#0	22.50	50.00	PASS
Band26	1.4MHz	16QAM	26697	1RB#2	22.50	50.00	PASS
Band26	1.4MHz	16QAM	26697	1RB#5	22.62	50.00	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	21.41	50.00	PASS
Band26	1.4MHz	16QAM	26740	1RB#0	22.57	50.00	PASS
Band26	1.4MHz	16QAM	26740	1RB#2	22.59	50.00	PASS
Band26	1.4MHz	16QAM	26740	1RB#5	22.50	50.00	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	21.40	50.00	PASS
Band26	1.4MHz	16QAM	26783	1RB#0	22.46	50.00	PASS
Band26	1.4MHz	16QAM	26783	1RB#2	22.49	50.00	PASS
Band26	1.4MHz	16QAM	26783	1RB#5	22.54	50.00	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	21.36	50.00	PASS
Band26	1.4MHz	64QAM	26697	1RB#0	21.49	50.00	PASS



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Band26	1.4MHz	64QAM	26697	1RB#2	21.50	50.00	PASS
Band26	1.4MHz	64QAM	26697	1RB#5	21.59	50.00	PASS
Band26	1.4MHz	64QAM	26697	6RB#0	20.42	50.00	PASS
Band26	1.4MHz	64QAM	26740	1RB#0	21.50	50.00	PASS
Band26	1.4MHz	64QAM	26740	1RB#2	21.52	50.00	PASS
Band26	1.4MHz	64QAM	26740	1RB#5	21.46	50.00	PASS
Band26	1.4MHz	64QAM	26740	6RB#0	20.41	50.00	PASS
Band26	1.4MHz	64QAM	26783	1RB#0	21.52	50.00	PASS
Band26	1.4MHz	64QAM	26783	1RB#2	21.48	50.00	PASS
Band26	1.4MHz	64QAM	26783	1RB#5	21.50	50.00	PASS
Band26	1.4MHz	64QAM	26783	6RB#0	20.40	50.00	PASS
Band26	1.4MHz	256QAM	26697	1RB#0	18.50	50.00	PASS
Band26	1.4MHz	256QAM	26697	1RB#2	18.51	50.00	PASS
Band26	1.4MHz	256QAM	26697	1RB#5	18.40	50.00	PASS
Band26	1.4MHz	256QAM	26697	6RB#0	18.35	50.00	PASS
Band26	1.4MHz	256QAM	26740	1RB#0	18.44	50.00	PASS
Band26	1.4MHz	256QAM	26740	1RB#2	18.38	50.00	PASS
Band26	1.4MHz	256QAM	26740	1RB#5	18.40	50.00	PASS
Band26	1.4MHz	256QAM	26740	6RB#0	18.38	50.00	PASS
Band26	1.4MHz	256QAM	26783	1RB#0	18.37	50.00	PASS
Band26	1.4MHz	256QAM	26783	1RB#2	18.43	50.00	PASS
Band26	1.4MHz	256QAM	26783	1RB#5	18.43	50.00	PASS
Band26	1.4MHz	256QAM	26783	6RB#0	18.36	50.00	PASS
Band26	3MHz	QPSK	26705	1RB#0	23.34	50.00	PASS
Band26	3MHz	QPSK	26705	1RB#8	23.35	50.00	PASS
Band26	3MHz	QPSK	26705	1RB#14	23.36	50.00	PASS
Band26	3MHz	QPSK	26705	15RB#0	22.40	50.00	PASS
Band26	3MHz	QPSK	26740	1RB#0	21.34	50.00	PASS
Band26	3MHz	QPSK	26740	1RB#8	23.31	50.00	PASS
Band26	3MHz	QPSK	26740	1RB#14	23.32	50.00	PASS
Band26	3MHz	QPSK	26740	15RB#0	22.37	50.00	PASS



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Band26	3MHz	QPSK	26775	1RB#0	21.35	50.00	PASS
Band26	3MHz	QPSK	26775	1RB#8	23.30	50.00	PASS
Band26	3MHz	QPSK	26775	1RB#14	23.30	50.00	PASS
Band26	3MHz	QPSK	26775	15RB#0	22.36	50.00	PASS
Band26	3MHz	16QAM	26705	1RB#0	22.54	50.00	PASS
Band26	3MHz	16QAM	26705	1RB#8	22.51	50.00	PASS
Band26	3MHz	16QAM	26705	1RB#14	22.55	50.00	PASS
Band26	3MHz	16QAM	26705	15RB#0	21.40	50.00	PASS
Band26	3MHz	16QAM	26740	1RB#0	22.51	50.00	PASS
Band26	3MHz	16QAM	26740	1RB#8	22.52	50.00	PASS
Band26	3MHz	16QAM	26740	1RB#14	22.48	50.00	PASS
Band26	3MHz	16QAM	26740	15RB#0	21.36	50.00	PASS
Band26	3MHz	16QAM	26775	1RB#0	22.52	50.00	PASS
Band26	3MHz	16QAM	26775	1RB#8	22.51	50.00	PASS
Band26	3MHz	16QAM	26775	1RB#14	22.48	50.00	PASS
Band26	3MHz	16QAM	26775	15RB#0	21.35	50.00	PASS
Band26	3MHz	64QAM	26705	1RB#0	21.55	50.00	PASS
Band26	3MHz	64QAM	26705	1RB#8	21.60	50.00	PASS
Band26	3MHz	64QAM	26705	1RB#14	21.55	50.00	PASS
Band26	3MHz	64QAM	26705	15RB#0	20.46	50.00	PASS
Band26	3MHz	64QAM	26740	1RB#0	21.58	50.00	PASS
Band26	3MHz	64QAM	26740	1RB#8	21.59	50.00	PASS
Band26	3MHz	64QAM	26740	1RB#14	21.54	50.00	PASS
Band26	3MHz	64QAM	26740	15RB#0	20.37	50.00	PASS
Band26	3MHz	64QAM	26775	1RB#0	21.50	50.00	PASS
Band26	3MHz	64QAM	26775	1RB#8	21.57	50.00	PASS
Band26	3MHz	64QAM	26775	1RB#14	21.45	50.00	PASS
Band26	3MHz	64QAM	26775	15RB#0	20.40	50.00	PASS
Band26	3MHz	256QAM	26705	1RB#0	18.53	50.00	PASS
Band26	3MHz	256QAM	26705	1RB#8	18.46	50.00	PASS
Band26	3MHz	256QAM	26705	1RB#14	18.45	50.00	PASS



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Band26	3MHz	256QAM	26740	1RB#0	18.49	50.00	PASS
Band26	3MHz	256QAM	26740	1RB#8	18.44	50.00	PASS
Band26	3MHz	256QAM	26740	1RB#14	18.41	50.00	PASS
Band26	3MHz	256QAM	26740	15RB#0	18.35	50.00	PASS
Band26	3MHz	256QAM	26775	1RB#0	18.46	50.00	PASS
Band26	3MHz	256QAM	26775	1RB#8	18.42	50.00	PASS
Band26	3MHz	256QAM	26775	1RB#14	18.45	50.00	PASS
Band26	3MHz	256QAM	26775	15RB#0	18.34	50.00	PASS
Band26	5MHz	QPSK	26715	1RB#0	23.43	50.00	PASS
Band26	5MHz	QPSK	26715	1RB#12	23.46	50.00	PASS
Band26	5MHz	QPSK	26715	1RB#24	23.38	50.00	PASS
Band26	5MHz	QPSK	26715	25RB#0	22.49	50.00	PASS
Band26	5MHz	QPSK	26740	1RB#0	22.42	50.00	PASS
Band26	5MHz	QPSK	26740	1RB#12	23.37	50.00	PASS
Band26	5MHz	QPSK	26740	1RB#24	23.39	50.00	PASS
Band26	5MHz	QPSK	26740	25RB#0	22.46	50.00	PASS
Band26	5MHz	QPSK	26765	1RB#0	22.43	50.00	PASS
Band26	5MHz	QPSK	26765	1RB#12	23.40	50.00	PASS
Band26	5MHz	QPSK	26765	1RB#24	23.37	50.00	PASS
Band26	5MHz	QPSK	26765	25RB#0	22.44	50.00	PASS
Band26	5MHz	16QAM	26715	1RB#0	22.59	50.00	PASS
Band26	5MHz	16QAM	26715	1RB#12	22.57	50.00	PASS
Band26	5MHz	16QAM	26715	1RB#24	22.54	50.00	PASS
Band26	5MHz	16QAM	26715	25RB#0	21.48	50.00	PASS
Band26	5MHz	16QAM	26740	1RB#0	22.58	50.00	PASS
Band26	5MHz	16QAM	26740	1RB#12	22.62	50.00	PASS
Band26	5MHz	16QAM	26740	1RB#24	22.58	50.00	PASS
Band26	5MHz	16QAM	26740	25RB#0	21.42	50.00	PASS
Band26	5MHz	16QAM	26765	1RB#0	22.57	50.00	PASS
Band26	5MHz	16QAM	26765	1RB#12	22.50	50.00	PASS



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Band26	5MHz	16QAM	26765	1RB#24	22.48	50.00	PASS
Band26	5MHz	16QAM	26765	25RB#0	21.43	50.00	PASS
Band26	5MHz	64QAM	26715	1RB#0	21.65	50.00	PASS
Band26	5MHz	64QAM	26715	1RB#12	21.61	50.00	PASS
Band26	5MHz	64QAM	26715	1RB#24	21.62	50.00	PASS
Band26	5MHz	64QAM	26715	25RB#0	20.47	50.00	PASS
Band26	5MHz	64QAM	26740	1RB#0	21.68	50.00	PASS
Band26	5MHz	64QAM	26740	1RB#12	21.57	50.00	PASS
Band26	5MHz	64QAM	26740	1RB#24	21.63	50.00	PASS
Band26	5MHz	64QAM	26740	25RB#0	20.43	50.00	PASS
Band26	5MHz	64QAM	26765	1RB#0	21.58	50.00	PASS
Band26	5MHz	64QAM	26765	1RB#12	21.60	50.00	PASS
Band26	5MHz	64QAM	26765	1RB#24	21.62	50.00	PASS
Band26	5MHz	64QAM	26765	25RB#0	20.43	50.00	PASS
Band26	5MHz	256QAM	26715	1RB#0	18.58	50.00	PASS
Band26	5MHz	256QAM	26715	1RB#12	18.50	50.00	PASS
Band26	5MHz	256QAM	26715	1RB#24	18.48	50.00	PASS
Band26	5MHz	256QAM	26715	25RB#0	18.43	50.00	PASS
Band26	5MHz	256QAM	26740	1RB#0	18.55	50.00	PASS
Band26	5MHz	256QAM	26740	1RB#12	18.48	50.00	PASS
Band26	5MHz	256QAM	26740	1RB#24	18.48	50.00	PASS
Band26	5MHz	256QAM	26740	25RB#0	18.41	50.00	PASS
Band26	5MHz	256QAM	26765	1RB#0	18.49	50.00	PASS
Band26	5MHz	256QAM	26765	1RB#12	18.54	50.00	PASS
Band26	5MHz	256QAM	26765	1RB#24	18.48	50.00	PASS
Band26	5MHz	256QAM	26765	25RB#0	18.43	50.00	PASS
Band26	10MHz	QPSK	26740	1RB#0	23.40	50.00	PASS
Band26	10MHz	QPSK	26740	1RB#24	23.34	50.00	PASS
Band26	10MHz	QPSK	26740	1RB#49	23.35	50.00	PASS
Band26	10MHz	QPSK	26740	50RB#0	22.42	50.00	PASS
Band26	10MHz	16QAM	26740	1RB#0	22.57	50.00	PASS



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Band26	10MHz	16QAM	26740	1RB#24	22.57	50.00	PASS
Band26	10MHz	16QAM	26740	1RB#49	22.51	50.00	PASS
Band26	10MHz	16QAM	26740	50RB#0	21.41	50.00	PASS
Band26	10MHz	64QAM	26740	1RB#0	21.63	50.00	PASS
Band26	10MHz	64QAM	26740	1RB#24	21.61	50.00	PASS
Band26	10MHz	64QAM	26740	1RB#49	21.60	50.00	PASS
Band26	10MHz	64QAM	26740	50RB#0	20.39	50.00	PASS
Band26	10MHz	256QAM	26740	1RB#0	18.53	50.00	PASS
Band26	10MHz	256QAM	26740	1RB#24	18.50	50.00	PASS
Band26	10MHz	256QAM	26740	1RB#49	18.43	50.00	PASS
Band26	10MHz	256QAM	26740	50RB#0	18.36	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	5.62	13	PASS
Band26	10MHz	16QAM	26740	50RB#0	6.32	13	PASS
Band26	10MHz	64QAM	26740	50RB#0	6.54	13	PASS
Band26	10MHz	256QAM	26740	50RB#0	6.68	13	PASS



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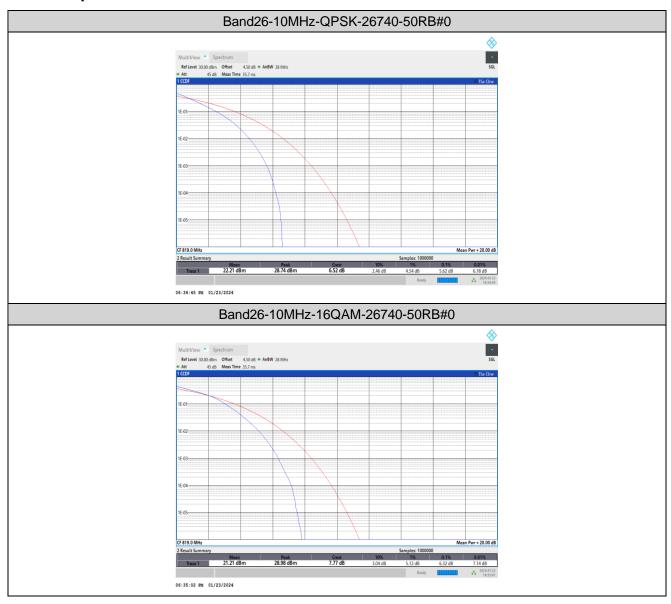


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#### **Test Graphs**





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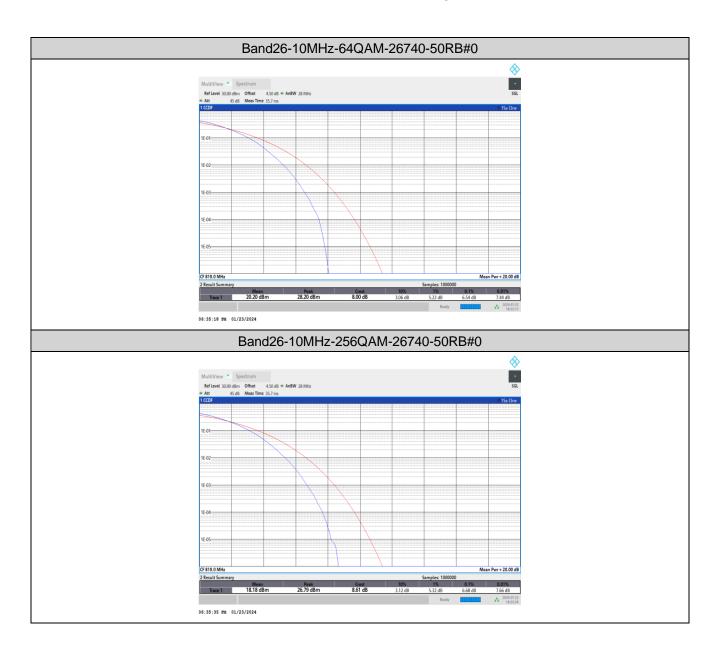
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#### 26dB Bandwidth and Occupied Bandwidth

#### **Test Result**

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band26	1.4MHz	QPSK	26740	6RB#0	1.093	1.28	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	1.092	1.30	PASS
Band26	1.4MHz	64QAM	26740	6RB#0	1.095	1.31	PASS
Band26	1.4MHz	256QAM	26740	6RB#0	1.086	1.28	PASS
Band26	3MHz	QPSK	26740	15RB#0	2.693	2.95	PASS
Band26	3MHz	16QAM	26740	15RB#0	2.687	2.93	PASS
Band26	3MHz	64QAM	26740	15RB#0	2.69	2.92	PASS
Band26	3MHz	256QAM	26740	15RB#0	2.687	2.95	PASS
Band26	5MHz	QPSK	26740	25RB#0	4.466	4.84	PASS
Band26	5MHz	16QAM	26740	25RB#0	4.467	4.90	PASS
Band26	5MHz	64QAM	26740	25RB#0	4.471	4.87	PASS
Band26	5MHz	256QAM	26740	25RB#0	4.461	4.85	PASS
Band26	10MHz	QPSK	26740	50RB#0	8.917	9.58	PASS
Band26	10MHz	16QAM	26740	50RB#0	8.905	9.66	PASS
Band26	10MHz	64QAM	26740	50RB#0	8.923	9.64	PASS
Band26	10MHz	256QAM	26740	50RB#0	8.912	9.58	PASS



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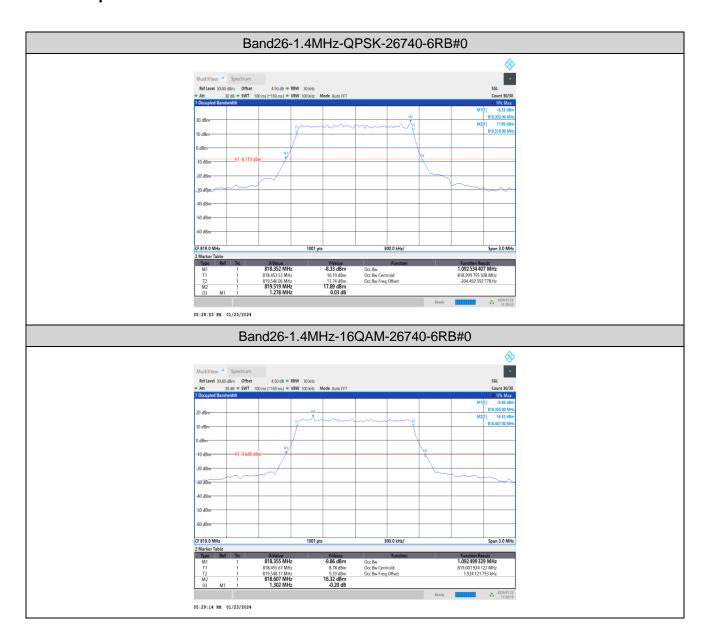


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#### **Test Graphs**





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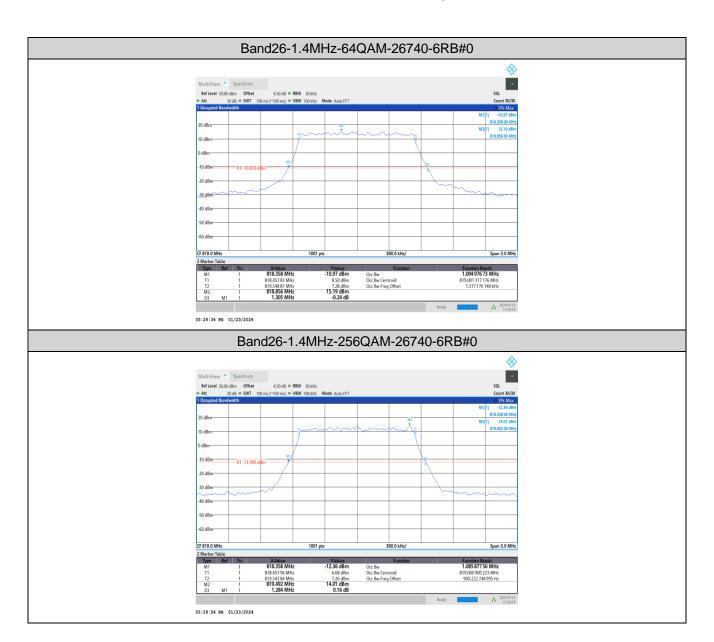
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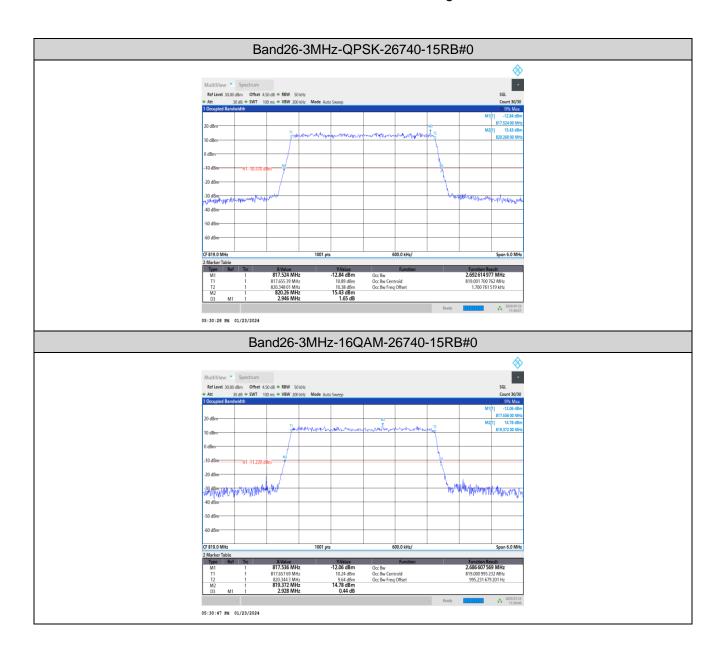
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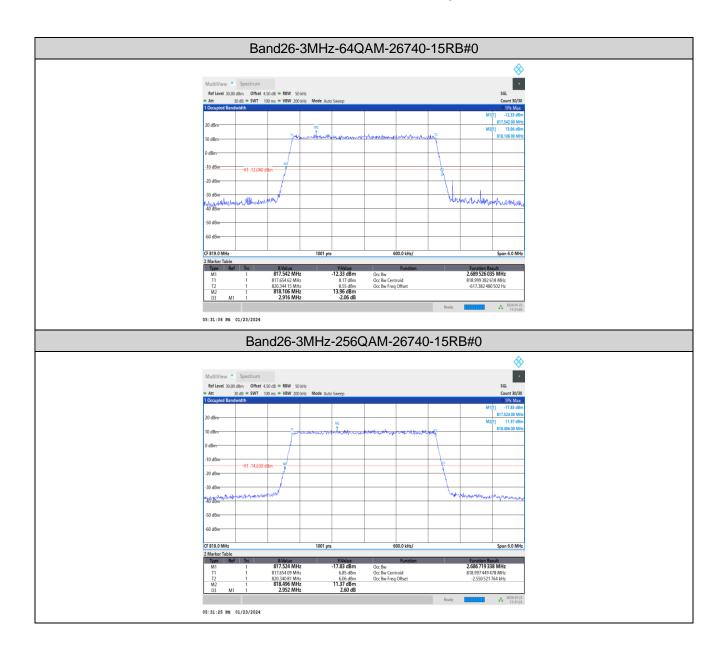
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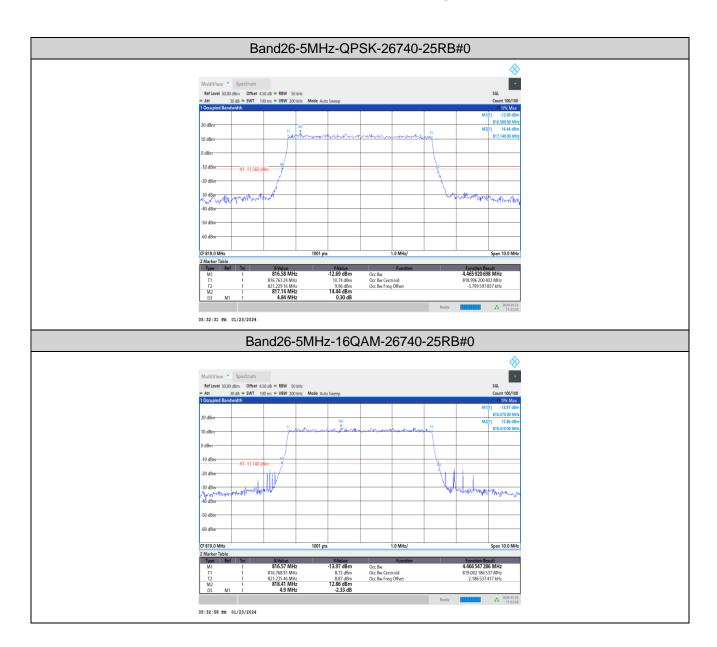
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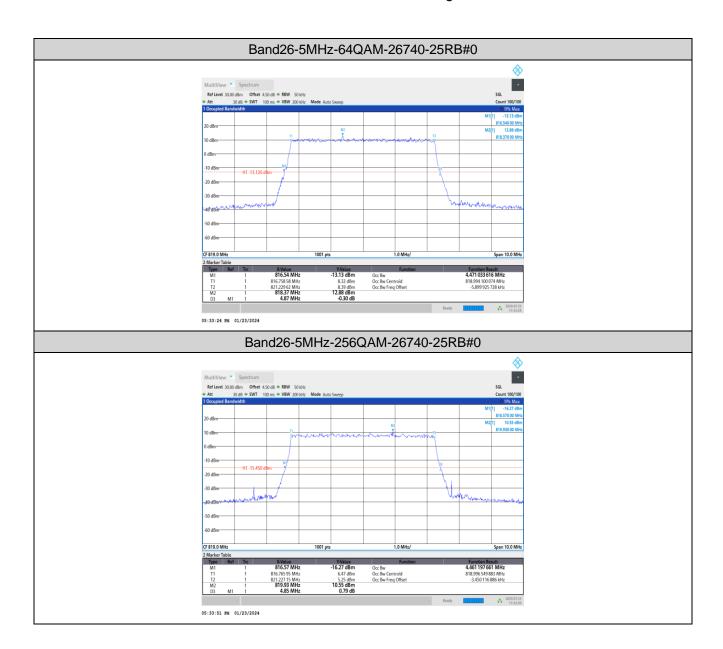
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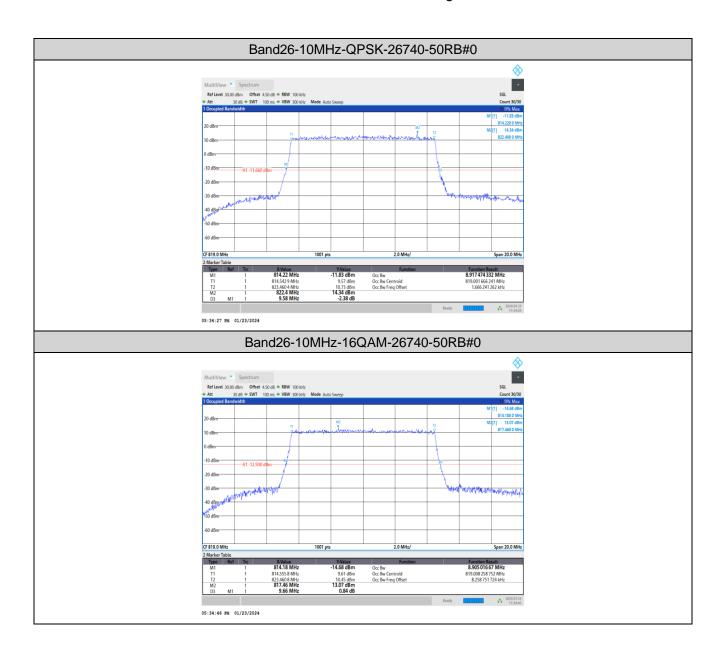
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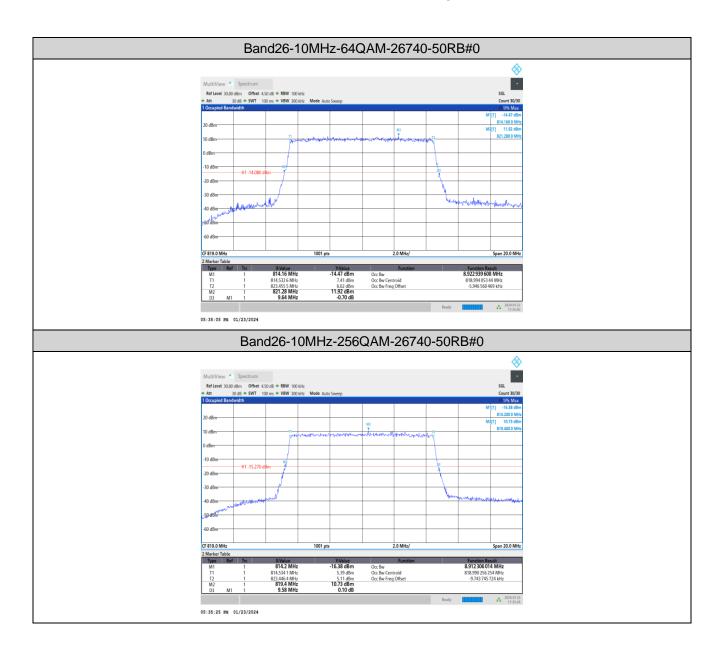
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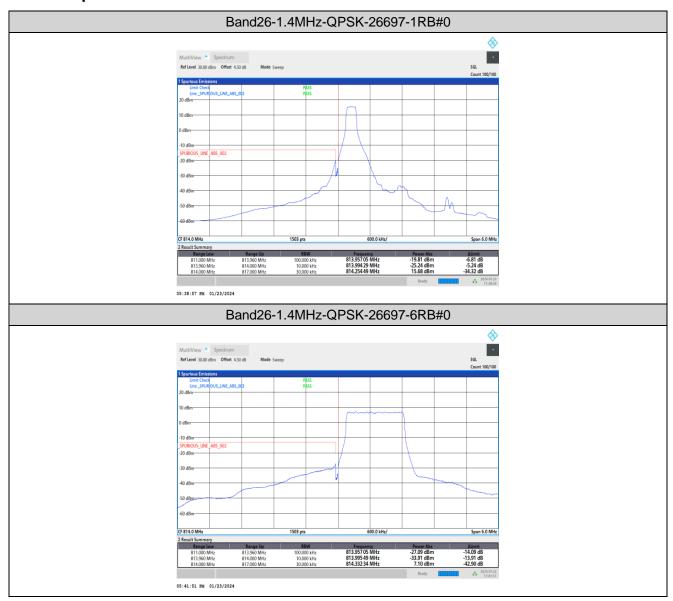
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#### **Band Edge**

#### **Test Graphs**





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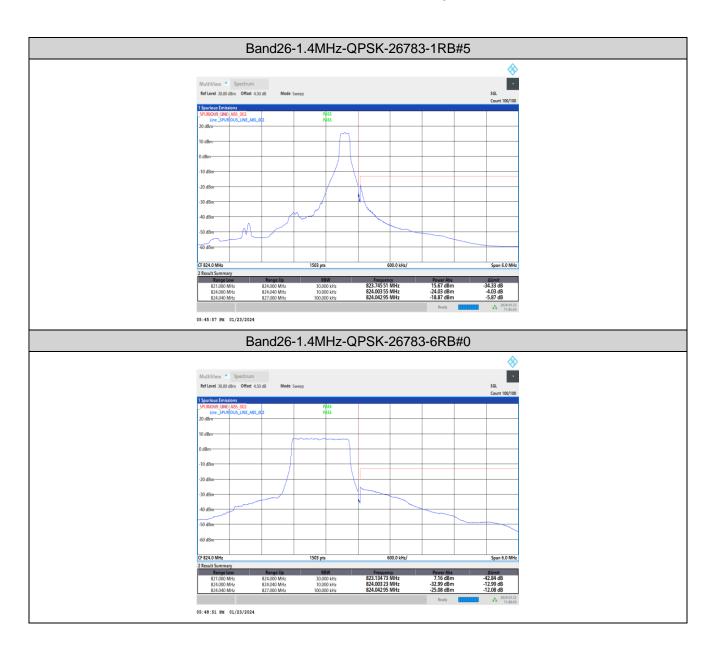
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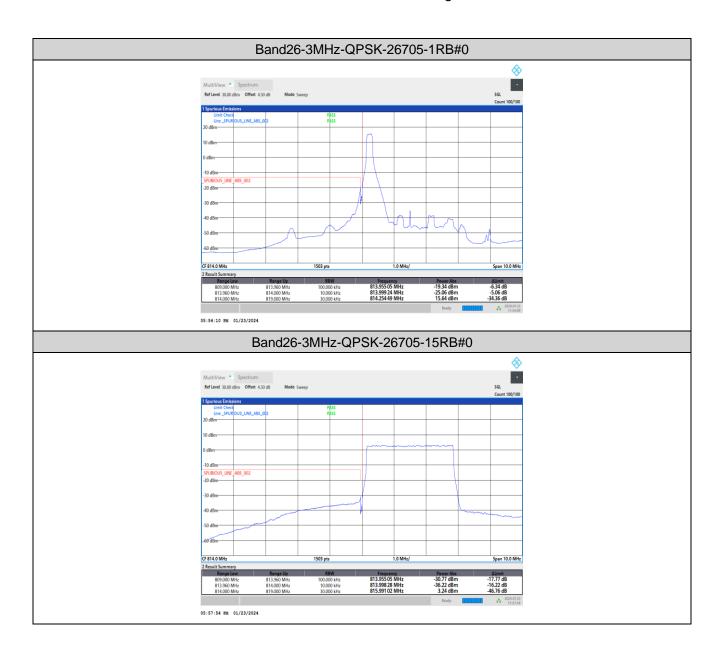
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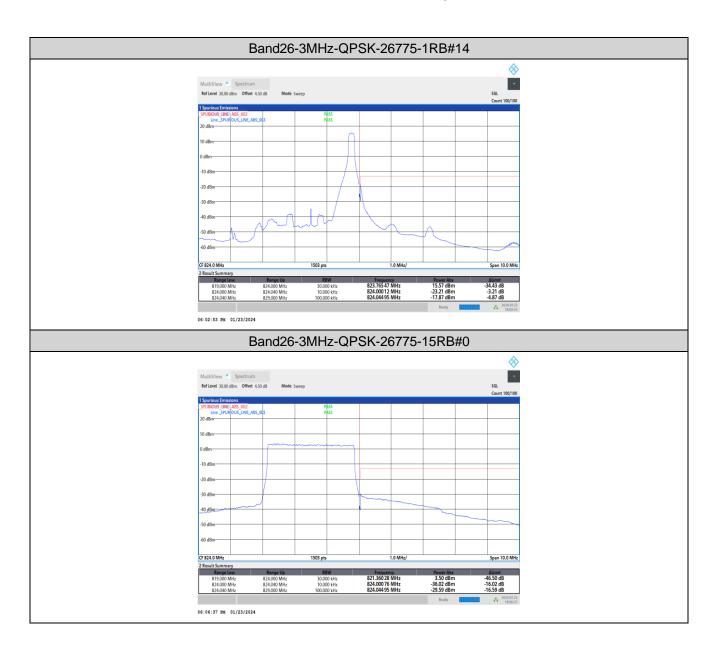
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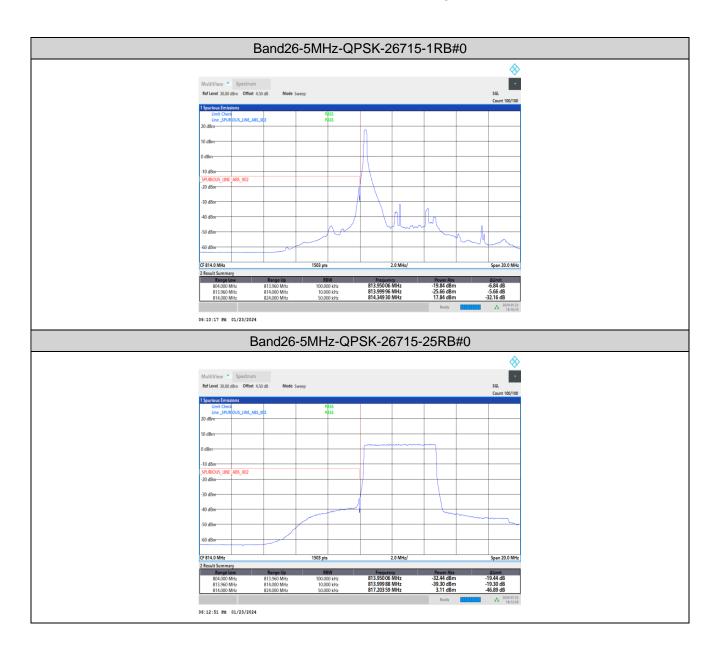
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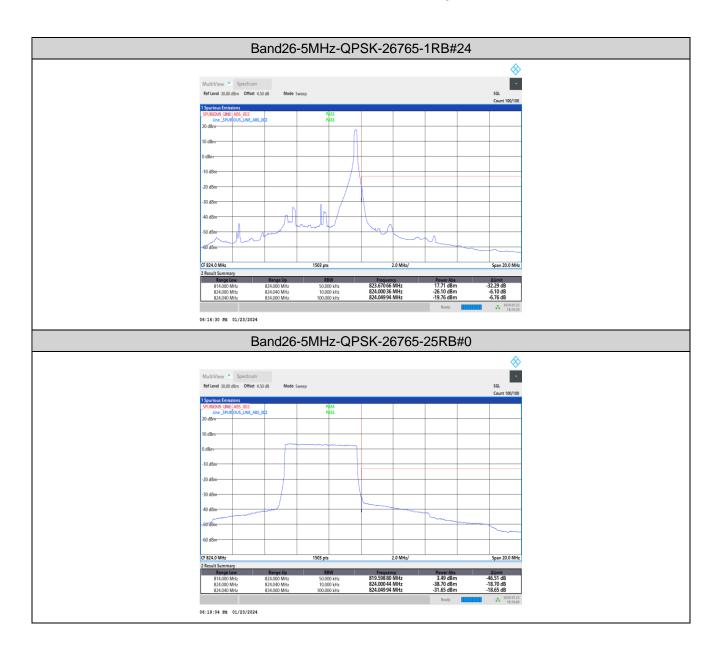
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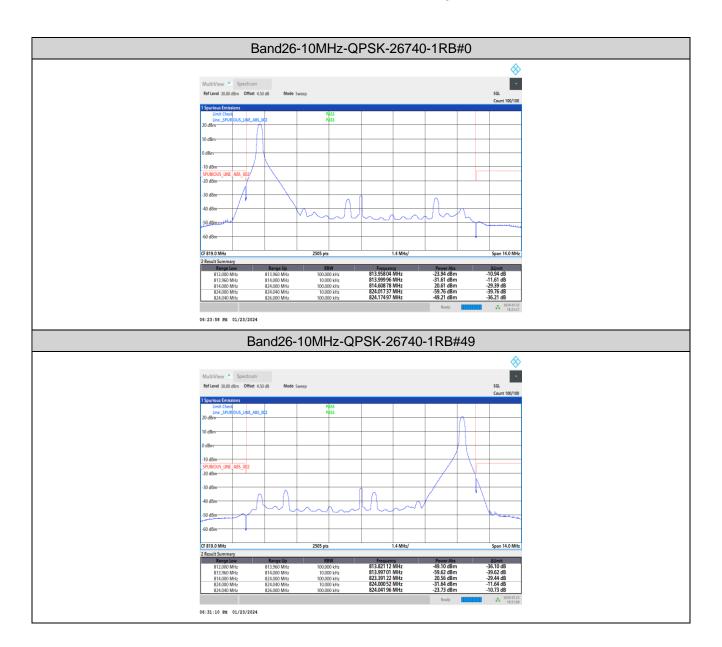
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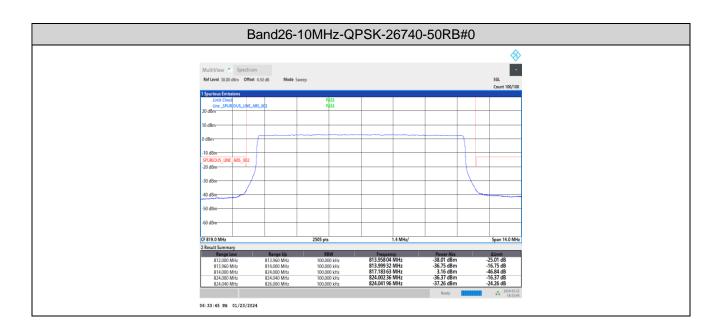
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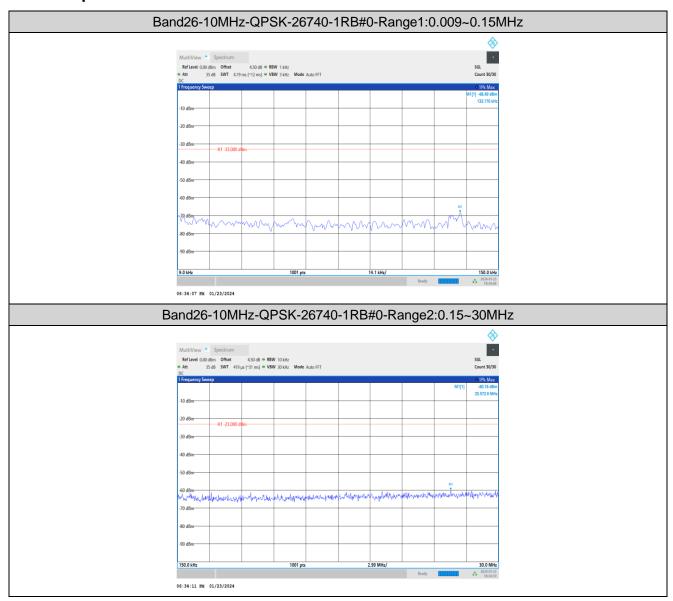
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#### **Conducted Spurious Emission**

#### **Test Graphs**





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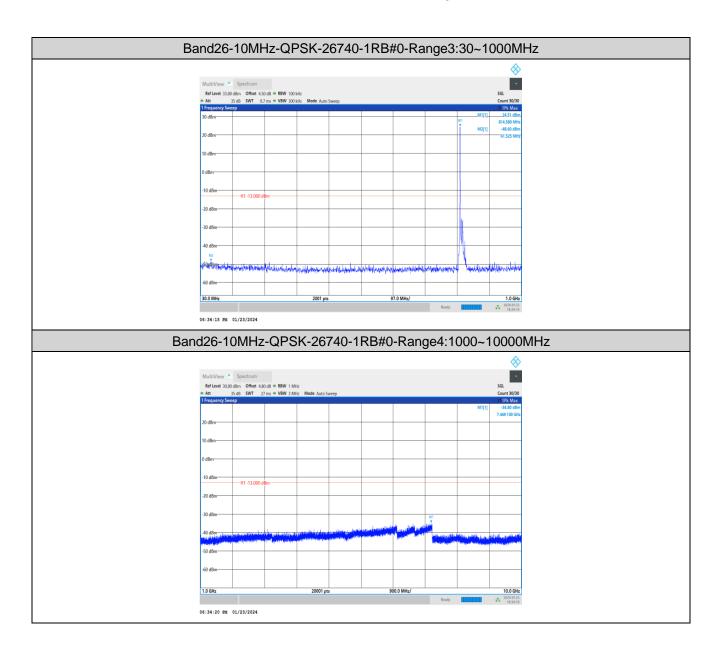
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#### **Field Strength of Spurious Radiation**

Test Band = LTE Band26\_10M\_ TM1 Test Channel = Mid

Final	Final Data List										
NO	Frequency	Reading	Factor	Λ Γ[dD/∞1	Level	Limit	Margin	Dolority			
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	Polarity			
1	1629.1800	43.45	-48.24	25.24	-74.81	-13.00	61.81	Horizontal			
2	2443.7700	41.74	-47.37	27.14	-73.75	-13.00	60.75	Horizontal			
3	3258.3600	41.31	-46.52	28.46	-72.01	-13.00	59.01	Horizontal			
4	4072.9500	40.74	-45.98	29.28	-71.23	-13.00	58.23	Horizontal			
5	4887.5400	40.79	-45.59	31.15	-68.90	-13.00	55.90	Horizontal			
6	5702.1300	39.11	-44.57	32.64	-68.08	-13.00	55.08	Horizontal			

Final	Data List							
NO.	Frequency	Reading	Factor	۸ [[dD/m]	Level	Limit	Margin	Dolovity
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	Polarity
1	1629.1800	43.69	-48.24	25.24	-74.57	-13.00	61.57	Vertical
2	2443.7700	42.30	-47.37	27.14	-73.19	-13.00	60.19	Vertical
3	3258.3600	41.25	-46.52	28.46	-72.07	-13.00	59.07	Vertical
4	4072.9500	40.96	-45.98	29.28	-71.01	-13.00	58.01	Vertical
5	4887.5400	41.04	-45.59	31.15	-68.65	-13.00	55.65	Vertical
6	5702.1300	39.13	-44.57	32.64	-68.06	-13.00	55.06	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

2) All antennas of RSE are tested, and only the worst data is presented.



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#### **Frequency Stability**

#### **Test Result**

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	VL	NT	-1.70	-0.002076	PASS
Band26	10MHz	QPSK	26740	50RB#0	VN	NT	-3.60	-0.004396	PASS
Band26	10MHz	QPSK	26740	50RB#0	VH	NT	-0.10	-0.000122	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	NV	-30	1.10	0.001343	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	-20	-1.90	-0.002320	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	-10	-1.40	-0.001709	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	0	-3.50	-0.004274	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	10	0.80	0.000977	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	20	-1.40	-0.001709	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	30	-2.10	-0.002564	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	40	-2.60	-0.003175	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	50	0.00	0.000000	PASS

--- End of Attachment ---



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