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# Appendix B.11

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	21.27	50	PASS		
Band26	1.4MHz	QPSK	26697	1RB#2	21.25	50	PASS		
Band26	1.4MHz	QPSK	26697	1RB#5	21.28	50	PASS		
Band26	1.4MHz	QPSK	26697	6RB#0	23.38	50	PASS		
Band26	1.4MHz	QPSK	26740	1RB#0	22.36	50	PASS		
Band26	1.4MHz	QPSK	26740	1RB#2	21.51	50	PASS		
Band26	1.4MHz	QPSK	26740	1RB#5	21.47	50	PASS		
Band26	1.4MHz	QPSK	26740	6RB#0	23.47	50	PASS		
Band26	1.4MHz	QPSK	26783	1RB#0	22.35	50	PASS		
Band26	1.4MHz	QPSK	26783	1RB#2	24.4	50	PASS		
Band26	1.4MHz	QPSK	26783	1RB#5	21.61	50	PASS		
Band26	1.4MHz	QPSK	26783	6RB#0	21.52	50	PASS		
Band26	1.4MHz	16QAM	26697	1RB#0	23.57	50	PASS		
Band26	1.4MHz	16QAM	26697	1RB#2	23.55	50	PASS		
Band26	1.4MHz	16QAM	26697	1RB#5	23.38	50	PASS		
Band26	1.4MHz	16QAM	26697	6RB#0	22.31	50	PASS		
Band26	1.4MHz	16QAM	26740	1RB#0	23.45	50	PASS		
Band26	1.4MHz	16QAM	26740	1RB#2	23.61	50	PASS		
Band26	1.4MHz	16QAM	26740	1RB#5	23.59	50	PASS		
Band26	1.4MHz	16QAM	26740	6RB#0	22.47	50	PASS		
Band26	1.4MHz	16QAM	26783	1RB#0	23.49	50	PASS		
Band26	1.4MHz	16QAM	26783	1RB#2	23.66	50	PASS		
Band26	1.4MHz	16QAM	26783	1RB#5	23.62	50	PASS		
Band26	1.4MHz	16QAM	26783	6RB#0	22.54	50	PASS		
Band26	1.4MHz	64QAM	26697	1RB#0	23.4	50	PASS		
Band26	1.4MHz	64QAM	26697	1RB#2	22.46	50	PASS		
Band26	1.4MHz	64QAM	26697	1RB#5	22.51	50	PASS		
Band26	1.4MHz	64QAM	26697	6RB#0	21.39	50	PASS		



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				Р	rage: 3 0	01 40	
Band26	1.4MHz	64QAM	26740	1RB#0	22.49	50	PASS
Band26	1.4MHz	64QAM	26740	1RB#2	22.7	50	PASS
Band26	1.4MHz	64QAM	26740	1RB#5	22.57	50	PASS
Band26	1.4MHz	64QAM	26740	6RB#0	21.53	50	PASS
Band26	1.4MHz	64QAM	26783	1RB#0	22.58	50	PASS
Band26	1.4MHz	64QAM	26783	1RB#2	22.64	50	PASS
Band26	1.4MHz	64QAM	26783	1RB#5	22.74	50	PASS
Band26	1.4MHz	64QAM	26783	6RB#0	21.62	50	PASS
Band26	1.4MHz	256QAM	26697	1RB#0	19.29	50	PASS
Band26	1.4MHz	256QAM	26697	1RB#2	19.56	50	PASS
Band26	1.4MHz	256QAM	26697	1RB#5	19.36	50	PASS
Band26	1.4MHz	256QAM	26697	6RB#0	19.29	50	PASS
Band26	1.4MHz	256QAM	26740	1RB#0	19.54	50	PASS
Band26	1.4MHz	256QAM	26740	1RB#2	19.53	50	PASS
Band26	1.4MHz	256QAM	26740	1RB#5	19.62	50	PASS
Band26	1.4MHz	256QAM	26740	6RB#0	19.51	50	PASS
Band26	1.4MHz	256QAM	26783	1RB#0	19.58	50	PASS
Band26	1.4MHz	256QAM	26783	1RB#2	19.63	50	PASS
Band26	1.4MHz	256QAM	26783	1RB#5	19.5	50	PASS
Band26	1.4MHz	256QAM	26783	6RB#0	19.63	50	PASS
Band26	3MHz	QPSK	26705	1RB#0	21.27	50	PASS
Band26	3MHz	QPSK	26705	1RB#8	21.4	50	PASS
Band26	3MHz	QPSK	26705	1RB#14	21.3	50	PASS
Band26	3MHz	QPSK	26705	15RB#0	23.36	50	PASS
Band26	3MHz	QPSK	26740	1RB#0	23.24	50	PASS
Band26	3MHz	QPSK	26740	1RB#8	21.49	50	PASS
Band26	3MHz	QPSK	26740	1RB#14	21.46	50	PASS
Band26	3MHz	QPSK	26740	15RB#0	23.54	50	PASS
Band26	3MHz	QPSK	26775	1RB#0	23.14	50	PASS
Band26	3MHz	QPSK	26775	1RB#8	24.36	50	PASS
Band26	3MHz	QPSK	26775	1RB#14	22.34	50	PASS
Band26	3MHz	QPSK	26775	15RB#0	24.37	50	PASS
Band26	3MHz	16QAM	26705	1RB#0	23.28	50	PASS
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				Р	rage: 4 c	DT 46	
Band26	3MHz	16QAM	26705	1RB#8	23.49	50	PASS
Band26	3MHz	16QAM	26705	1RB#14	23.31	50	PASS
Band26	3MHz	16QAM	26705	15RB#0	22.4	50	PASS
Band26	3MHz	16QAM	26740	1RB#0	23.55	50	PASS
Band26	3MHz	16QAM	26740	1RB#8	23.6	50	PASS
Band26	3MHz	16QAM	26740	1RB#14	23.55	50	PASS
Band26	3MHz	16QAM	26740	15RB#0	22.51	50	PASS
Band26	3MHz	16QAM	26775	1RB#0	24.43	50	PASS
Band26	3MHz	16QAM	26775	1RB#8	24.46	50	PASS
Band26	3MHz	16QAM	26775	1RB#14	24.48	50	PASS
Band26	3MHz	16QAM	26775	15RB#0	23.39	50	PASS
Band26	3MHz	64QAM	26705	1RB#0	22.52	50	PASS
Band26	3MHz	64QAM	26705	1RB#8	22.52	50	PASS
Band26	3MHz	64QAM	26705	1RB#14	22.47	50	PASS
Band26	3MHz	64QAM	26705	15RB#0	21.35	50	PASS
Band26	3MHz	64QAM	26740	1RB#0	22.63	50	PASS
Band26	3MHz	64QAM	26740	1RB#8	22.69	50	PASS
Band26	3MHz	64QAM	26740	1RB#14	22.64	50	PASS
Band26	3MHz	64QAM	26740	15RB#0	21.55	50	PASS
Band26	3MHz	64QAM	26775	1RB#0	23.41	50	PASS
Band26	3MHz	64QAM	26775	1RB#8	23.48	50	PASS
Band26	3MHz	64QAM	26775	1RB#14	23.52	50	PASS
Band26	3MHz	64QAM	26775	15RB#0	22.38	50	PASS
Band26	3MHz	256QAM	26705	1RB#0	19.26	50	PASS
Band26	3MHz	256QAM	26705	1RB#8	19.5	50	PASS
Band26	3MHz	256QAM	26705	1RB#14	19.35	50	PASS
Band26	3MHz	256QAM	26705	15RB#0	19.37	50	PASS
Band26	3MHz	256QAM	26740	1RB#0	19.5	50	PASS
Band26	3MHz	256QAM	26740	1RB#8	19.62	50	PASS
Band26	3MHz	256QAM	26740	1RB#14	19.49	50	PASS
Band26	3MHz	256QAM	26740	15RB#0	19.55	50	PASS
Band26	3MHz	256QAM	26775	1RB#0	20.39	50	PASS
Band26	3MHz	256QAM	26775	1RB#8	20.44	50	PASS
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				<u>_</u>	age: 5 0	DT 40	
Band26	3MHz	256QAM	26775	1RB#14	20.43	50	PASS
Band26	3MHz	256QAM	26775	15RB#0	20.42	50	PASS
Band26	5MHz	QPSK	26715	1RB#0	24.83	50	PASS
Band26	5MHz	QPSK	26715	1RB#12	24.52	50	PASS
Band26	5MHz	QPSK	26715	1RB#24	22.23	50	PASS
Band26	5MHz	QPSK	26715	25RB#0	24.15	50	PASS
Band26	5MHz	QPSK	26740	1RB#0	22.36	50	PASS
Band26	5MHz	QPSK	26740	1RB#12	24.13	50	PASS
Band26	5MHz	QPSK	26740	1RB#24	22.3	50	PASS
Band26	5MHz	QPSK	26740	25RB#0	24.35	50	PASS
Band26	5MHz	QPSK	26765	1RB#0	22.41	50	PASS
Band26	5MHz	QPSK	26765	1RB#12	24.52	50	PASS
Band26	5MHz	QPSK	26765	1RB#24	22.27	50	PASS
Band26	5MHz	QPSK	26765	25RB#0	24.45	50	PASS
Band26	5MHz	16QAM	26715	1RB#0	23.97	50	PASS
Band26	5MHz	16QAM	26715	1RB#12	24.29	50	PASS
Band26	5MHz	16QAM	26715	1RB#24	24.27	50	PASS
Band26	5MHz	16QAM	26715	25RB#0	23.2	50	PASS
Band26	5MHz	16QAM	26740	1RB#0	24.23	50	PASS
Band26	5MHz	16QAM	26740	1RB#12	24.37	50	PASS
Band26	5MHz	16QAM	26740	1RB#24	24.34	50	PASS
Band26	5MHz	16QAM	26740	25RB#0	23.35	50	PASS
Band26	5MHz	16QAM	26765	1RB#0	24.51	50	PASS
Band26	5MHz	16QAM	26765	1RB#12	24.49	50	PASS
Band26	5MHz	16QAM	26765	1RB#24	24.37	50	PASS
Band26	5MHz	16QAM	26765	25RB#0	23.45	50	PASS
Band26	5MHz	64QAM	26715	1RB#0	23.1	50	PASS
Band26	5MHz	64QAM	26715	1RB#12	23.25	50	PASS
Band26	5MHz	64QAM	26715	1RB#24	23.42	50	PASS
Band26	5MHz	64QAM	26715	25RB#0	22.12	50	PASS
Band26	5MHz	64QAM	26740	1RB#0	23.19	50	PASS
Band26	5MHz	64QAM	26740	1RB#12	23.36	50	PASS
Band26	5MHz	64QAM	26740	1RB#24	23.35	50	PASS



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				Р	age: 6 0	01 46	
Band26	5MHz	64QAM	26740	25RB#0	22.37	50	PASS
Band26	5MHz	64QAM	26765	1RB#0	23.56	50	PASS
Band26	5MHz	64QAM	26765	1RB#12	23.56	50	PASS
Band26	5MHz	64QAM	26765	1RB#24	23.46	50	PASS
Band26	5MHz	64QAM	26765	25RB#0	22.44	50	PASS
Band26	5MHz	256QAM	26715	1RB#0	19.96	50	PASS
Band26	5MHz	256QAM	26715	1RB#12	20.36	50	PASS
Band26	5MHz	256QAM	26715	1RB#24	20.28	50	PASS
Band26	5MHz	256QAM	26715	25RB#0	20.18	50	PASS
Band26	5MHz	256QAM	26740	1RB#0	20.15	50	PASS
Band26	5MHz	256QAM	26740	1RB#12	20.52	50	PASS
Band26	5MHz	256QAM	26740	1RB#24	20.46	50	PASS
Band26	5MHz	256QAM	26740	25RB#0	20.33	50	PASS
Band26	5MHz	256QAM	26765	1RB#0	20.52	50	PASS
Band26	5MHz	256QAM	26765	1RB#12	20.38	50	PASS
Band26	5MHz	256QAM	26765	1RB#24	20.58	50	PASS
Band26	5MHz	256QAM	26765	25RB#0	20.41	50	PASS
Band26	10MHz	QPSK	26740	1RB#0	24.95	50	PASS
Band26	10MHz	QPSK	26740	1RB#24	24.36	50	PASS
Band26	10MHz	QPSK	26740	1RB#49	24.69	50	PASS
Band26	10MHz	QPSK	26740	50RB#0	24.38	50	PASS
Band26	10MHz	16QAM	26740	1RB#0	24.03	50	PASS
Band26	10MHz	16QAM	26740	1RB#24	24.43	50	PASS
Band26	10MHz	16QAM	26740	1RB#49	24.32	50	PASS
Band26	10MHz	16QAM	26740	50RB#0	23.31	50	PASS
Band26	10MHz	64QAM	26740	1RB#0	23.44	50	PASS
Band26	10MHz	64QAM	26740	1RB#24	23.48	50	PASS
Band26	10MHz	64QAM	26740	1RB#49	23.38	50	PASS
Band26	10MHz	64QAM	26740	50RB#0	22.35	50	PASS
Band26	10MHz	256QAM	26740	1RB#0	19.97	50	PASS
Band26	10MHz	256QAM	26740	1RB#24	20.43	50	PASS
Band26	10MHz	256QAM	26740	1RB#49	20.61	50	PASS
Band26	10MHz	256QAM	26740	50RB#0	20.28	50	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	4.46	13	PASS
Band26	10MHz	16QAM	26740	50RB#0	5.36	13	PASS
Band26	10MHz	64QAM	26740	50RB#0	5.90	13	PASS
Band26	10MHz	256QAM	26740	50RB#0	6.36	13	PASS



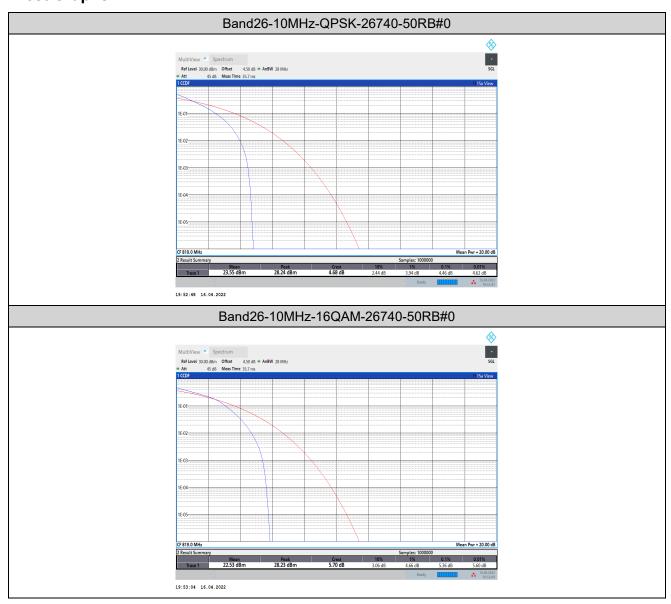
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#### **Test Graphs**



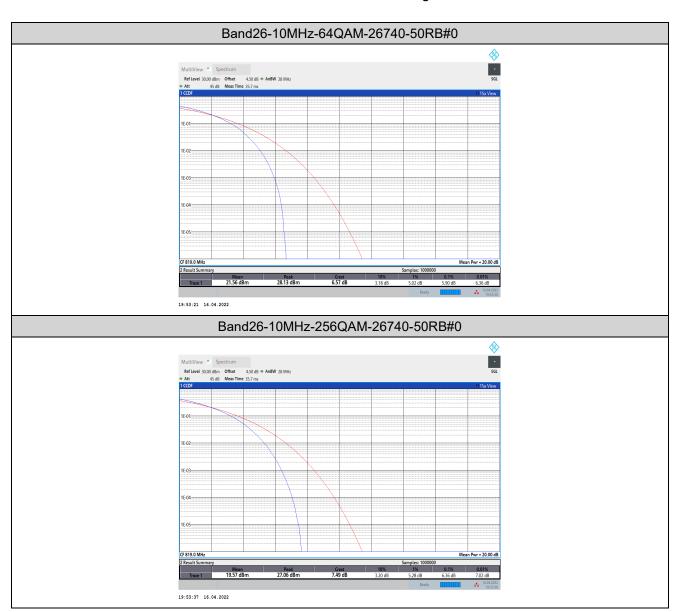


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#### **Modulation Characteristics**

#### **Test Result**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band26	10MHz	QPSK	26740	50RB#0	PASS	PASS
Band26	10MHz	16QAM	26740	50RB#0	PASS	PASS
Band26	10MHz	64QAM	26740	50RB#0	PASS	PASS
Band26	10MHz	256QAM	26740	50RB#0	PASS	PASS



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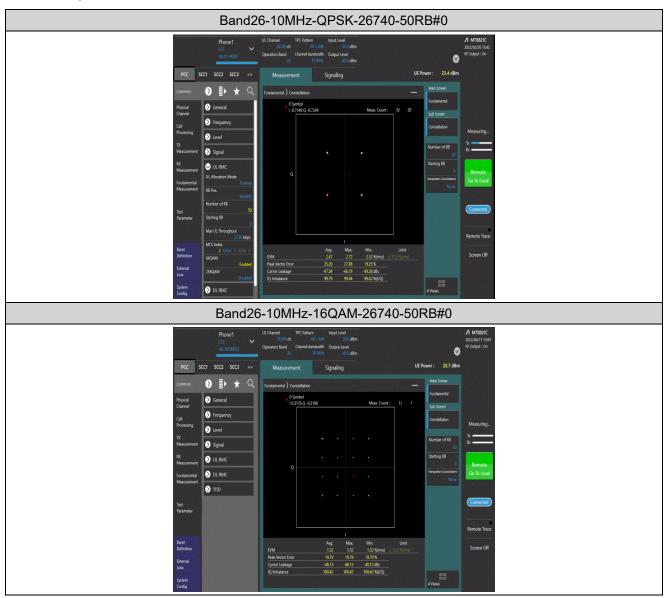


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#### **Test Graphs**





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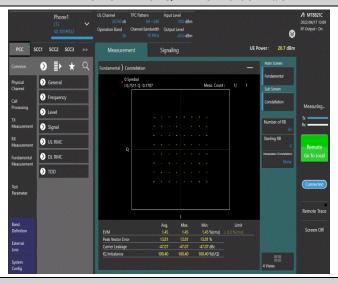


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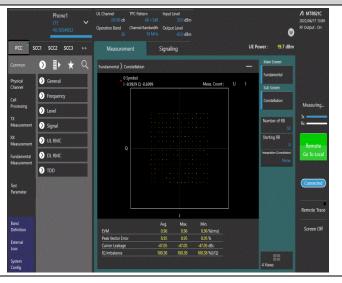
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#### Band26-10MHz-64QAM-26740-50RB#0



#### Band26-10MHz-256QAM-26740-50RB#0





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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	1.105	1.38	PASS
Band26	1.4MHz	QPSK	26740	6RB#0	1.107	1.37	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	1.105	1.41	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	1.104	1.37	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	1.106	1.38	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	1.112	1.42	PASS
Band26	1.4MHz	64QAM	26697	6RB#0	1.107	1.40	PASS
Band26	1.4MHz	64QAM	26740	6RB#0	1.104	1.37	PASS
Band26	1.4MHz	64QAM	26783	6RB#0	1.109	1.45	PASS
Band26	1.4MHz	256QAM	26697	6RB#0	1.110	1.40	PASS
Band26	1.4MHz	256QAM	26740	6RB#0	1.108	1.40	PASS
Band26	1.4MHz	256QAM	26783	6RB#0	1.101	1.37	PASS
Band26	3MHz	QPSK	26705	15RB#0	2.698	3.04	PASS
Band26	3MHz	QPSK	26740	15RB#0	2.693	3.04	PASS
Band26	3MHz	QPSK	26775	15RB#0	2.701	3.05	PASS
Band26	3MHz	16QAM	26705	15RB#0	2.706	3.04	PASS
Band26	3MHz	16QAM	26740	15RB#0	2.699	3.04	PASS
Band26	3MHz	16QAM	26775	15RB#0	2.705	3.08	PASS
Band26	3MHz	64QAM	26705	15RB#0	2.698	3.05	PASS
Band26	3MHz	64QAM	26740	15RB#0	2.692	3.02	PASS
Band26	3MHz	64QAM	26775	15RB#0	2.700	3.02	PASS
Band26	3MHz	256QAM	26705	15RB#0	2.698	3.07	PASS
Band26	3MHz	256QAM	26740	15RB#0	2.702	3.05	PASS
Band26	3MHz	256QAM	26775	15RB#0	2.699	3.04	PASS
Band26	5MHz	QPSK	26715	25RB#0	4.485	5.06	PASS
Band26	5MHz	QPSK	26740	25RB#0	4.469	5.05	PASS
Band26	5MHz	QPSK	26765	25RB#0	4.478	5.02	PASS
Band26	5MHz	16QAM	26715	25RB#0	4.479	5.08	PASS
Band26	5MHz	16QAM	26740	25RB#0	4.480	5.01	PASS
Band26	5MHz	16QAM	26765	25RB#0	4.479	5.08	PASS



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Band26	5MHz	64QAM	26715	25RB#0	4.478	5.06	PASS
Band26	5MHz	64QAM	26740	25RB#0	4.472	5.05	PASS
Band26	5MHz	64QAM	26765	25RB#0	4.476	5.06	PASS
Band26	5MHz	256QAM	26715	25RB#0	4.484	5.10	PASS
Band26	5MHz	256QAM	26740	25RB#0	4.476	5.00	PASS
Band26	5MHz	256QAM	26765	25RB#0	4.473	5.01	PASS
Band26	10MHz	QPSK	26740	50RB#0	8.934	9.80	PASS
Band26	10MHz	16QAM	26740	50RB#0	8.934	9.84	PASS
Band26	10MHz	64QAM	26740	50RB#0	8.927	9.94	PASS
Band26	10MHz	256QAM	26740	50RB#0	8.935	9.76	PASS



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#### **Test Graphs**







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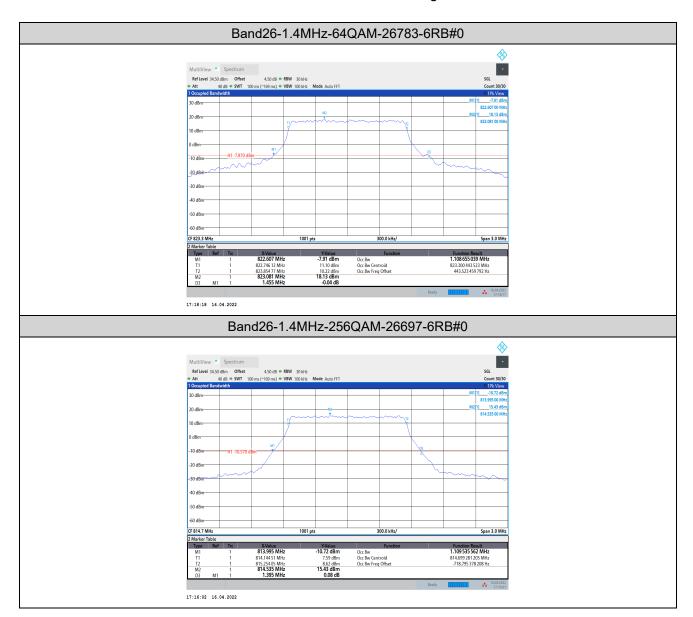
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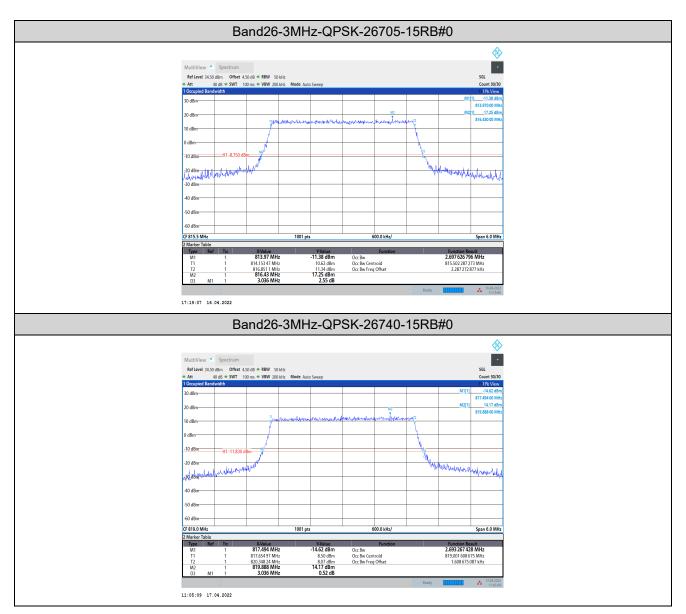
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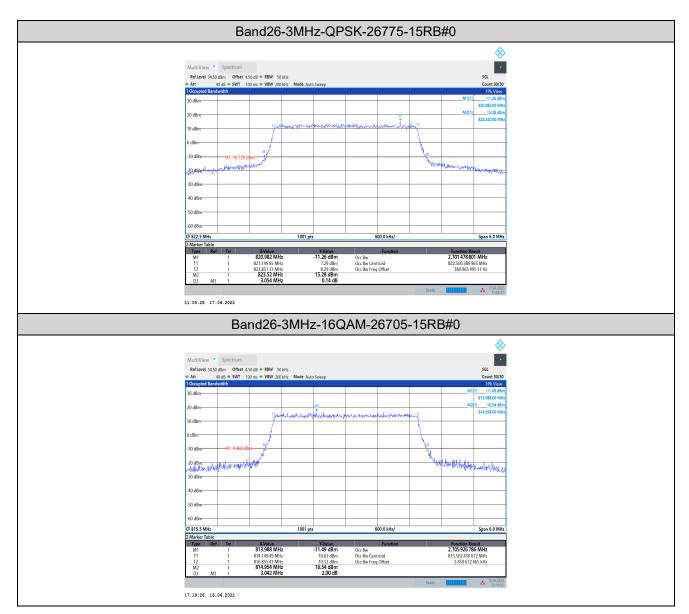
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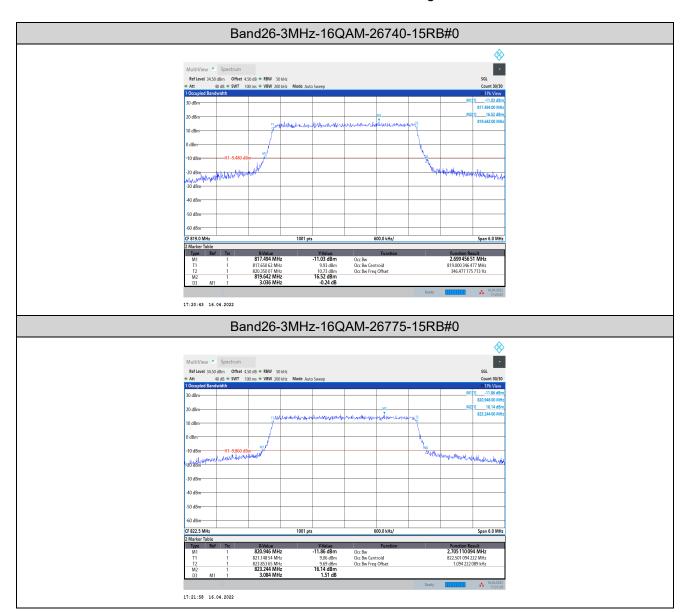
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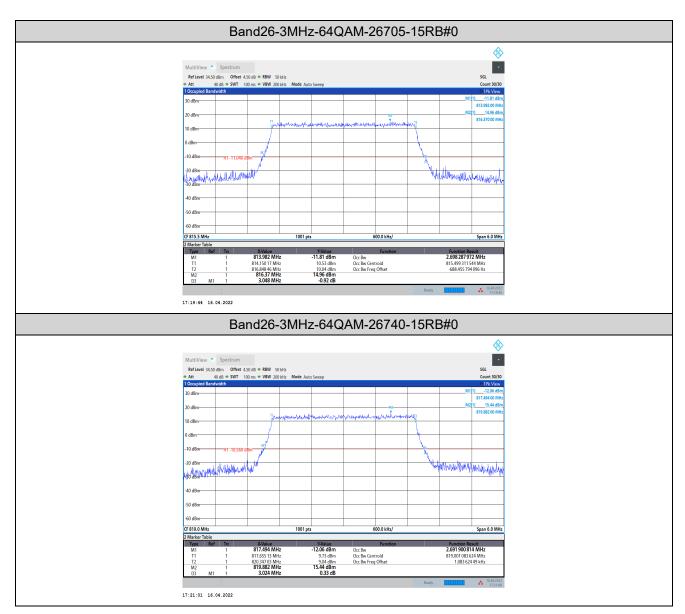
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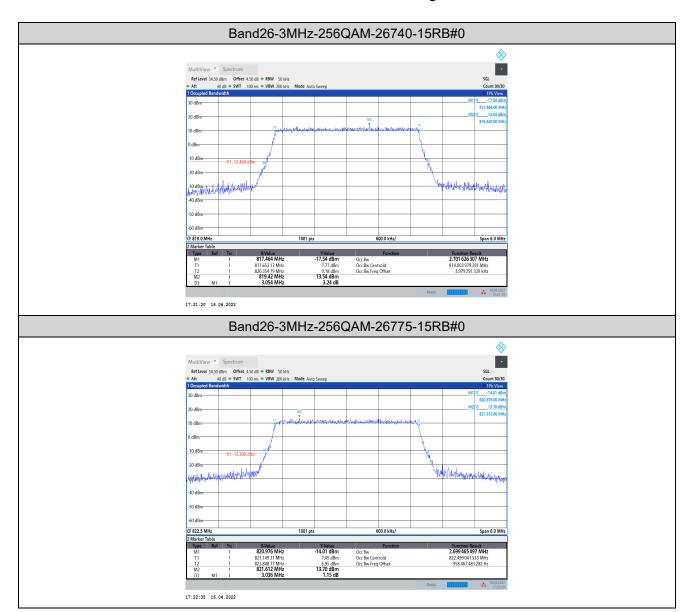
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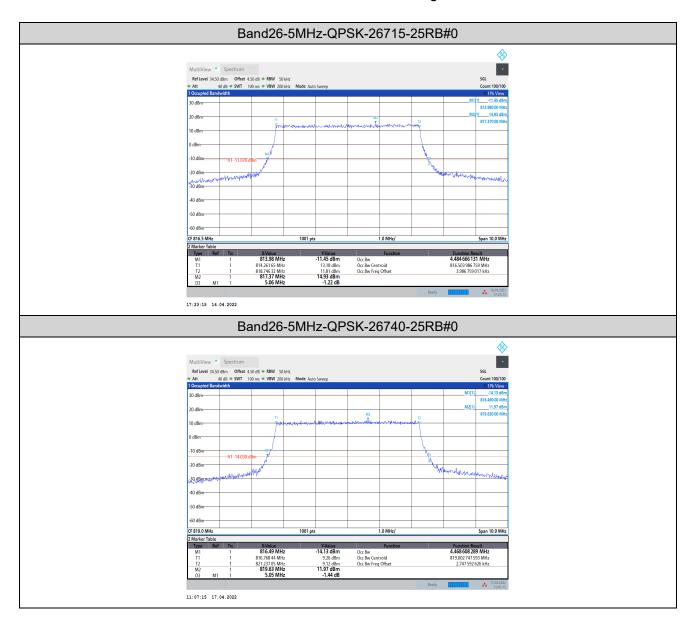
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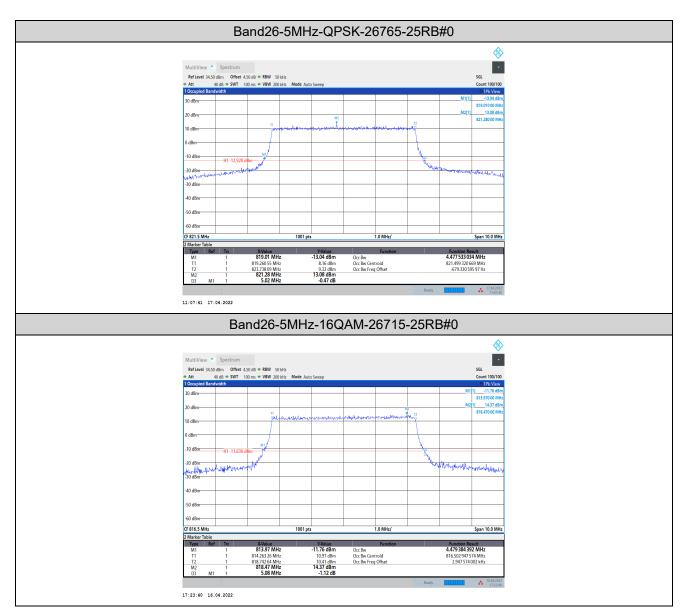
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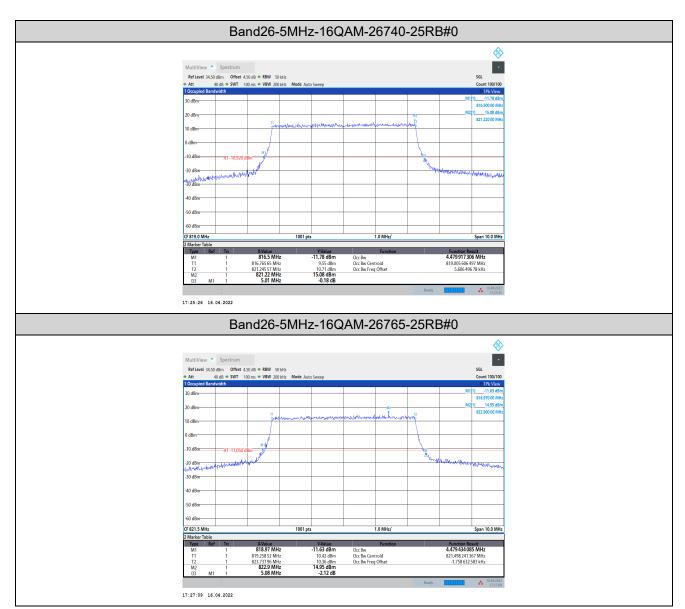
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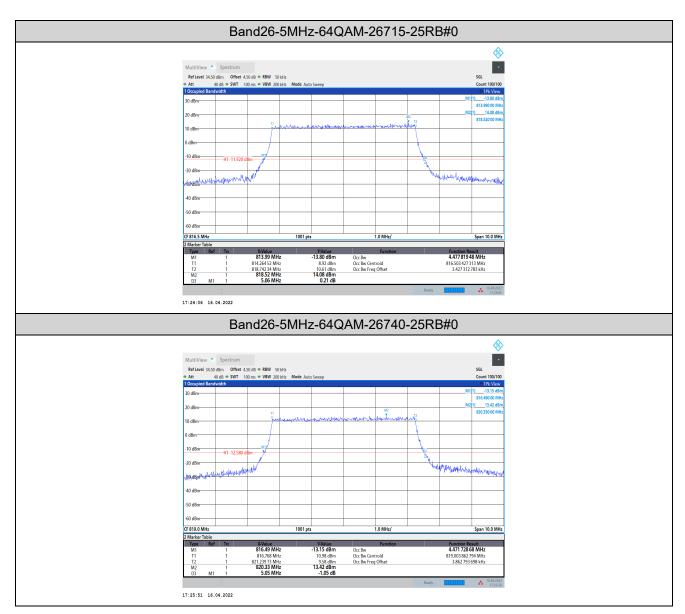
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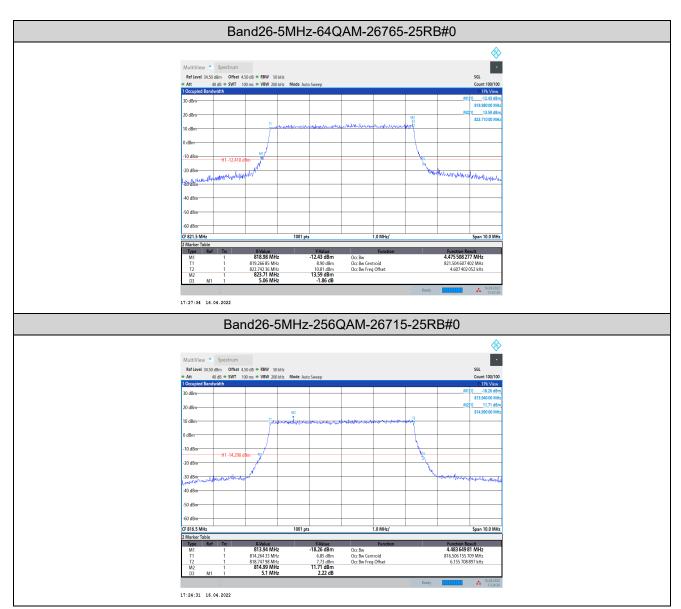
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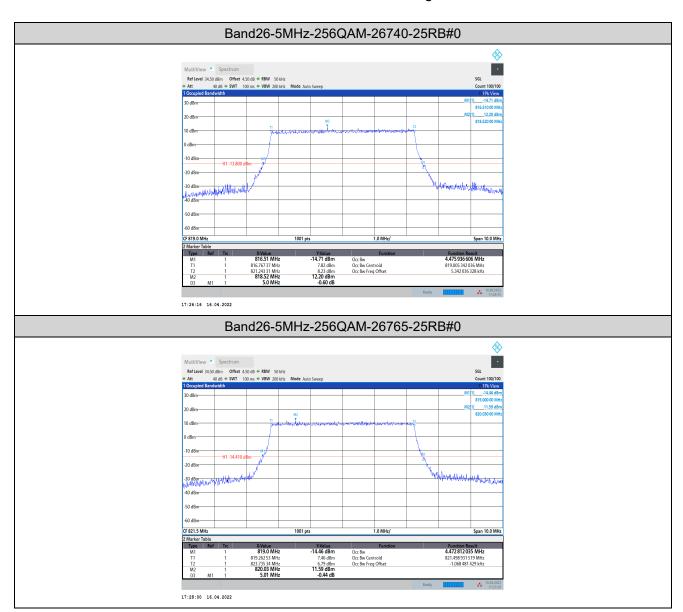
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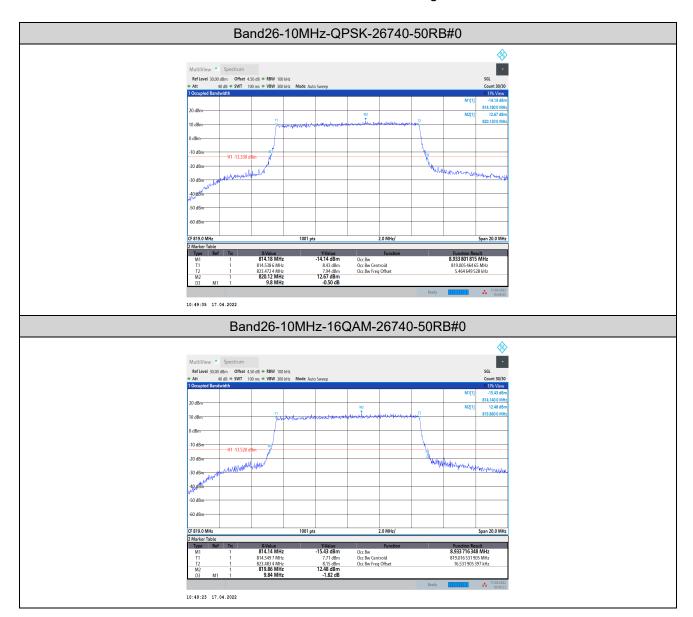
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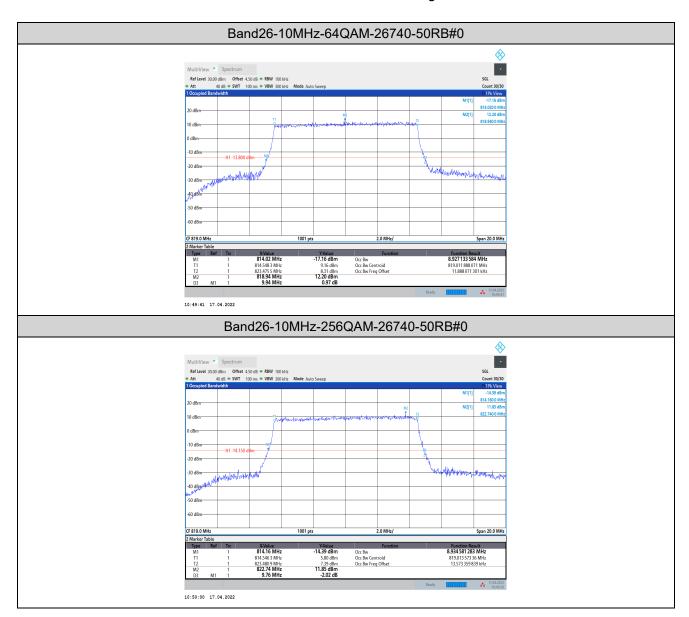
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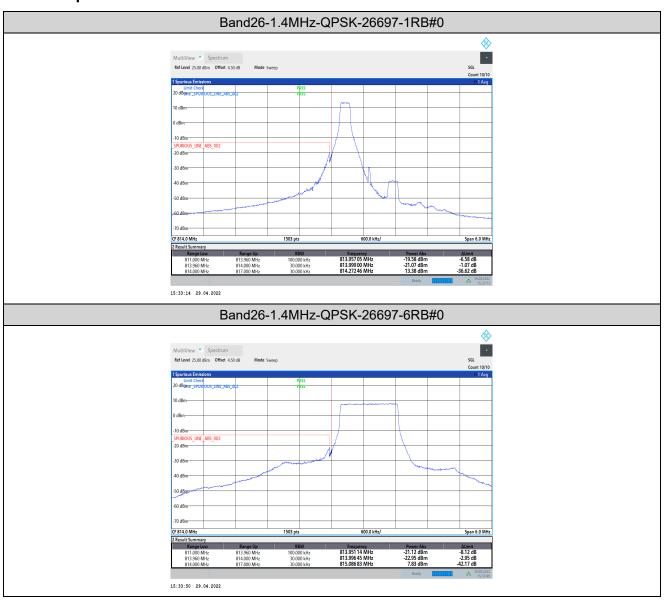
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#### **Band Edge**

#### **Test Graphs**





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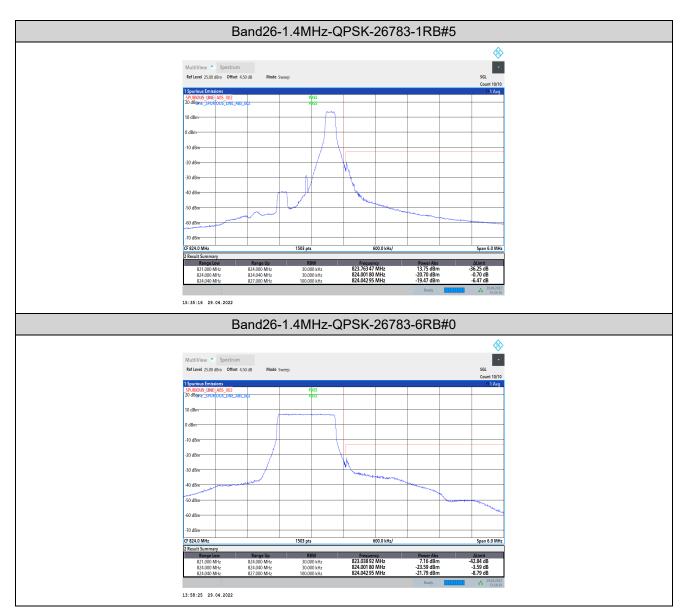
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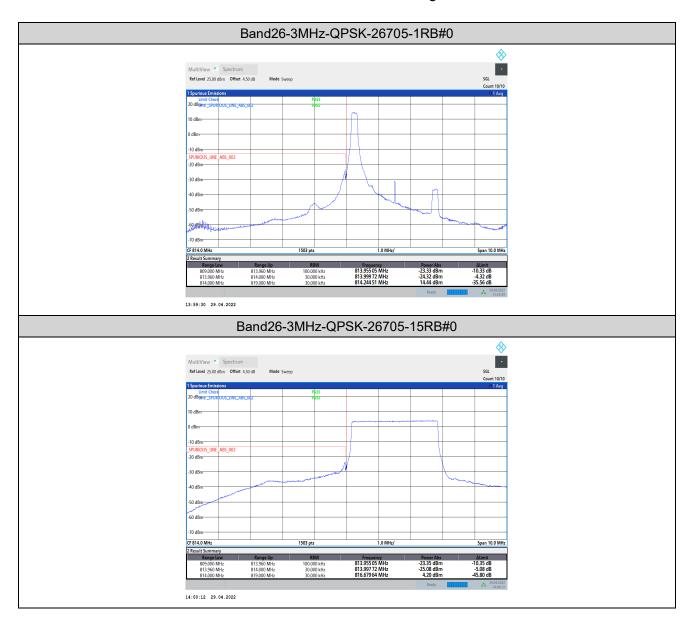
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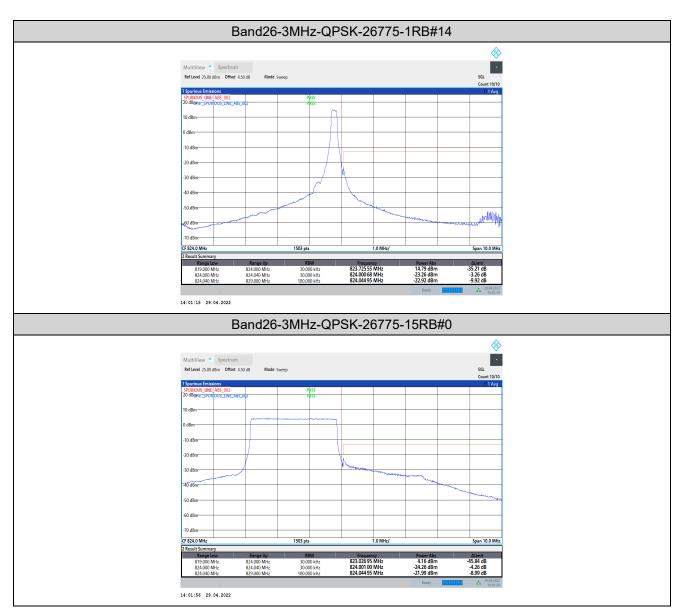
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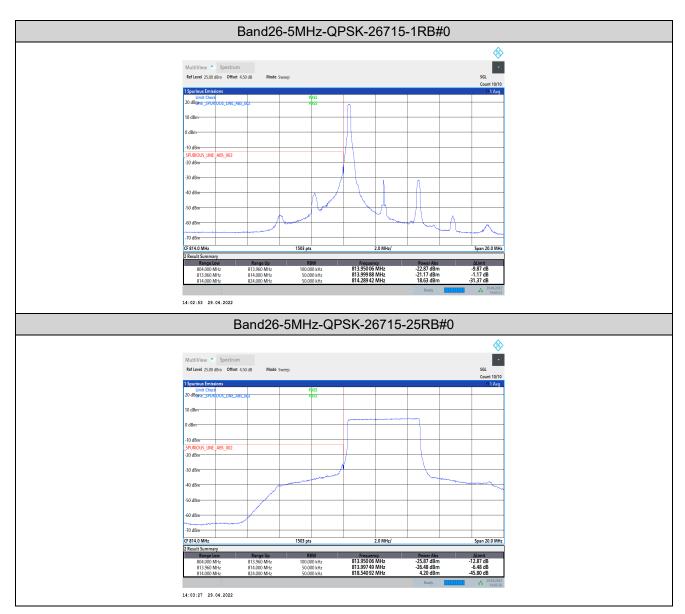
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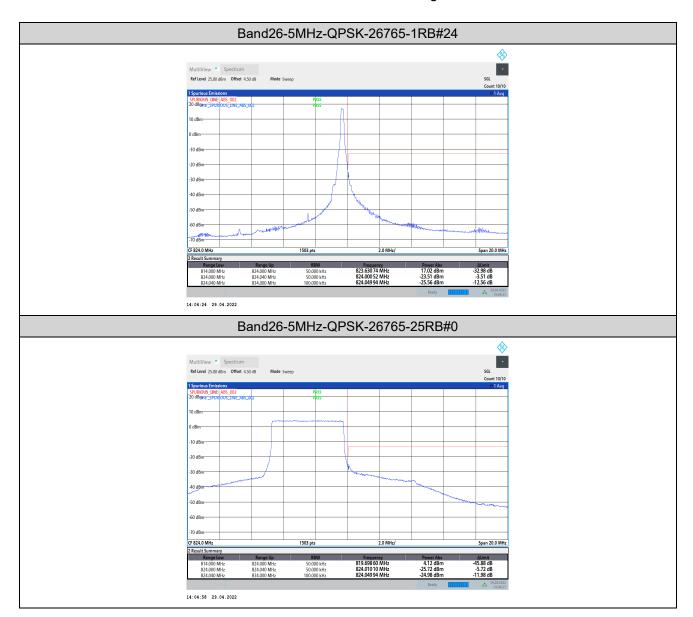
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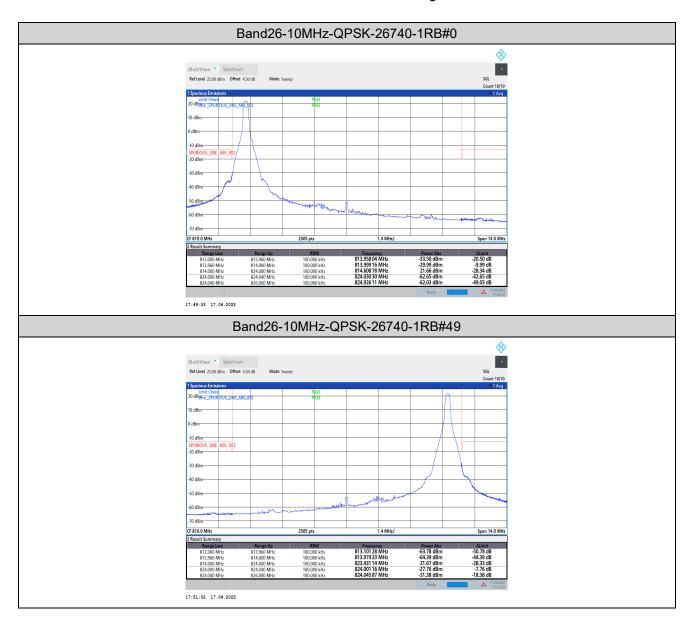
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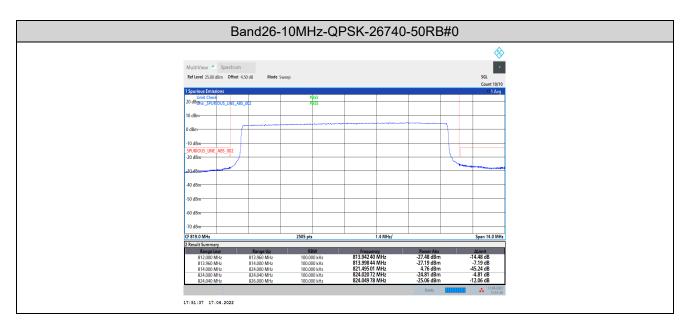
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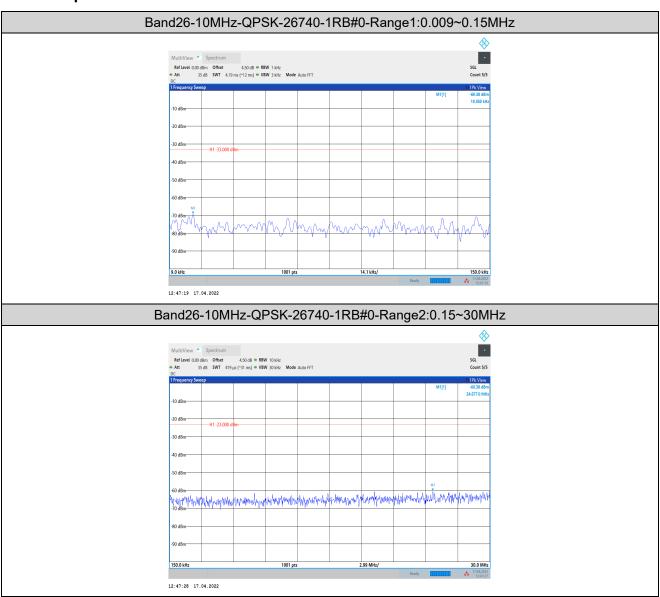
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#### **Conducted Spurious Emission**

#### **Test Graphs**





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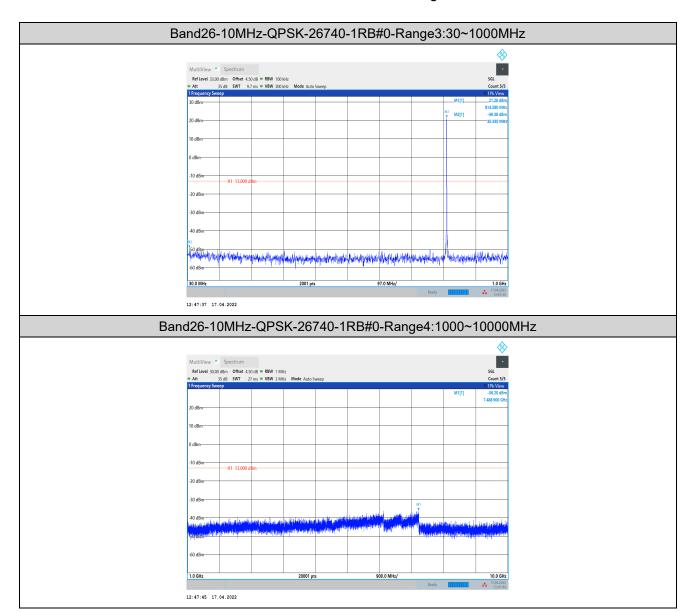
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#### **Field Strength of Spurious Radiation**

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

Final	Data List								
NO.	Frequency	Reading	Factor	Level	Limit	Margin	Height	Angle	Dolority
NO.	[MHz]	[dBµV]	[dB]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	1629.18	60.47	-118.11	-57.64	-13.00	44.64	263	215	Horizontal
2	2443.77	54.84	-114.69	-59.85	-13.00	46.85	251	138	Horizontal
3	3258.36	50.34	-111.94	-61.60	-13.00	48.60	175	93	Horizontal
4	4072.95	48.27	-109.98	-61.71	-13.00	48.71	262	30	Horizontal
5	4887.54	49.19	-108.01	-58.82	-13.00	45.82	241	292	Horizontal
6	5702.13	49.54	-105.57	-56.03	-13.00	43.03	178	276	Horizontal

Final	Data List								
NO.	Frequency	Reading	Factor	Level	Limit	Margin	Height	Angle	Polarity
NO.	[MHz]	[dBµV]	[dB]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	1629.18	54.40	-118.11	-63.71	-13.00	50.71	263	21	Vertical
2	2443.77	52.20	-114.69	-62.49	-13.00	49.49	241	254	Vertical
3	3258.36	51.18	-111.94	-60.76	-13.00	47.76	176	206	Vertical
4	4072.95	51.04	-109.98	-58.94	-13.00	45.94	264	0	Vertical
5	4887.54	49.77	-108.01	-58.24	-13.00	45.24	178	268	Vertical
6	5702.13	50.59	-105.57	-54.98	-13.00	41.98	264	158	Vertical



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#### **Frequency Stability**

#### **Test Result**

					Voltage					
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°ℂ)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	VL	NT	1.10	0.001343	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	VN	NT	-1.00	-0.001221	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	VH	NT	0.10	0.000122	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°ℂ)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	NV	-30	1.90	0.002320	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	-20	-0.50	-0.000611	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	-10	-0.50	-0.000611	±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	-2.10	-0.002564	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	20	-2.10	-0.002564	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	30	-0.30	-0.000366	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	40	0.80	0.000977	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	50	-0.30	-0.000366	±2.5	PASS

The End



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