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# Appendix B.3

LTE Band 12



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#### **Effective (Isotropic) Radiated Power Output Data**

#### **Test Result**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	22.23	11.5	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.34	12.61	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	22.82	12.09	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.01	11.28	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.38	12.65	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.01	12.28	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	22.37	11.64	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	21.94	11.21	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.31	12.58	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.36	12.63	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.15	12.42	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.6	11.87	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.06	11.33	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.29	11.56	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	21.62	10.89	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	20.98	10.25	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.47	11.74	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.17	11.44	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	21.54	10.81	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.01	10.28	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.41	11.68	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.57	11.84	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.29	11.56	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.52	10.79	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	22.79	12.06	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.39	12.66	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	22.79	12.06	34.77	PASS



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Band12	3MHz	QPSK	23025	15RB#0	22.13	11.4	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.36	12.63	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.19	12.46	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	22.06	11.33	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.08	11.35	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	22.66	11.93	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.25	12.52	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.09	12.36	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.12	11.39	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	21.92	11.19	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.56	11.83	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	21.97	11.24	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.17	10.44	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.59	11.86	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.43	11.7	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	21.2	10.47	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.02	10.29	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	21.53	10.8	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.13	11.4	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	21.98	11.25	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.04	10.31	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	22.93	12.2	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.36	12.63	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.29	12.56	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.25	11.52	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.23	12.5	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.15	12.42	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.15	12.42	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.01	11.28	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	22.57	11.84	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.04	12.31	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.28	12.55	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	21.8	11.07	34.77	PASS



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Band12	5MHz	16QAM	23035	1RB#0	21.92	11.19	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.34	11.61	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.51	11.78	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.29	10.56	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.77	12.04	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.34	11.61	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.35	11.62	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.02	10.29	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	21.55	10.82	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.04	11.31	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.63	11.9	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	20.84	10.11	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.15	12.42	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.26	12.53	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	22.54	11.81	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.75	12.02	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.29	12.56	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.24	12.51	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	22.32	11.59	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.02	11.29	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.48	12.75	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	22.39	11.66	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.46	12.73	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.06	11.33	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.11	11.38	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	23	12.27	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	21.6	10.87	34.77	PASS
Band12	10MHz	16QAM	23060	27RB#0	21.59	10.86	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.55	11.82	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.17	11.44	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	21.12	10.39	34.77	PASS
Band12	10MHz	16QAM	23095	27RB#0	22.33	11.6	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.36	11.63	34.77	PASS



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					<u> </u>			
Band12	10MHz	16QAM	23130	1RB#24	21.24	10.51	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.25	11.52	34.77	PASS
Band12	10MHz	16QAM	23130	27RB#0	21.27	10.54	34.77	PASS

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

#### **Test Result**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	5.54	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.70	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.56	13	PASS
Band12	10MHz	16QAM	23060	27RB#0	6.54	13	PASS
Band12	10MHz	16QAM	23095	27RB#0	6.18	13	PASS
Band12	10MHz	16QAM	23130	27RB#0	6.52	13	PASS



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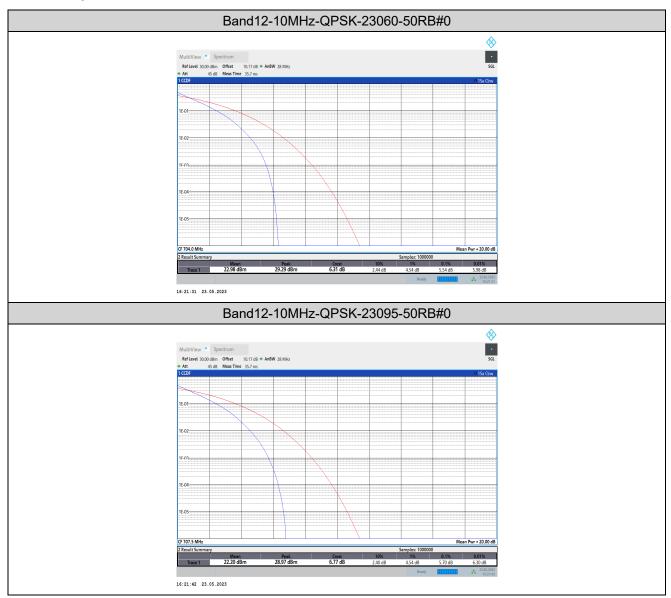


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#### **Test Graphs**





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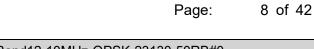
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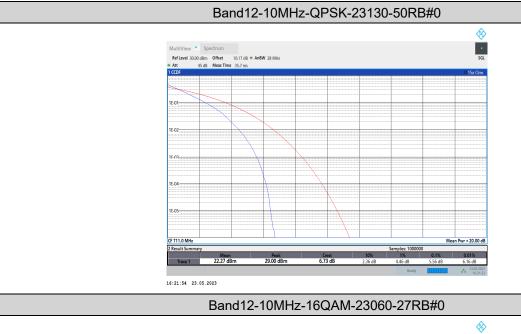
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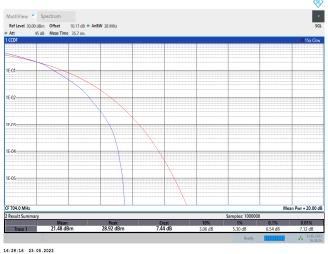


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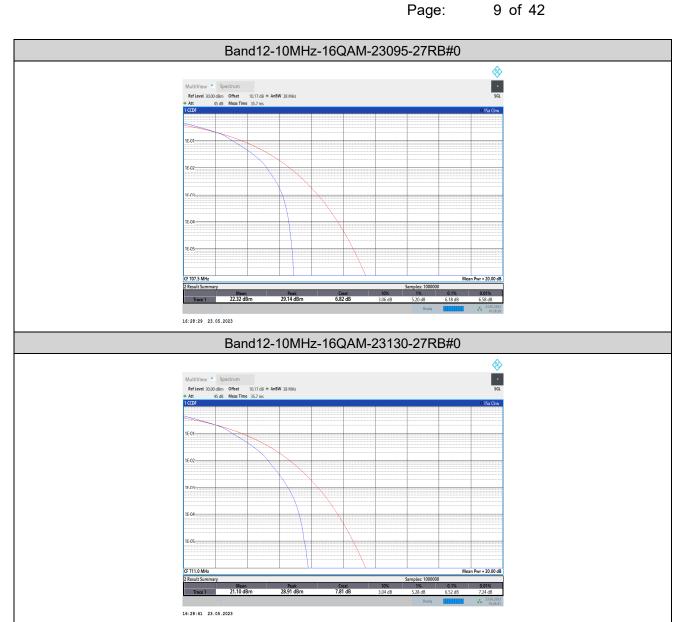
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#### **Modulation Characteristics**

#### **Test Result**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band12	10MHz	QPSK	23095	50RB#0	PASS	PASS
Band12	10MHz	16QAM	23095	27RB#0	PASS	PASS

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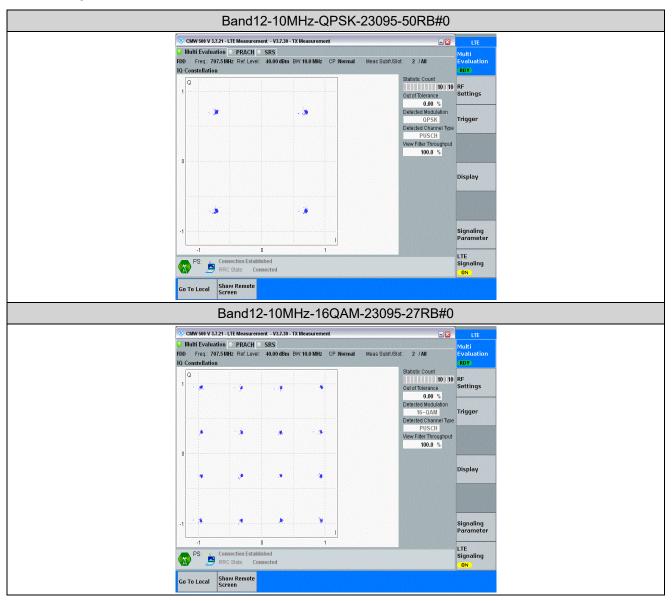


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#### **Test Graphs**





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#### 26dB Bandwidth and Occupied Bandwidth

#### **Test Result**

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.098	1.47	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.097	1.47	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.095	1.48	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.107	1.48	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.093	1.47	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.107	1.50	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.68	3.07	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.684	3.14	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.678	3.18	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.685	3.13	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.685	3.20	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.678	3.11	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.461	4.97	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.448	5.00	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.462	4.99	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.452	4.91	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.456	5.02	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.461	4.98	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.89	9.56	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.895	9.52	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.892	9.58	PASS
Band12	10MHz	16QAM	23060	27RB#0	4.899	6.54	PASS
Band12	10MHz	16QAM	23095	27RB#0	4.932	6.40	PASS
Band12	10MHz	16QAM	23130	27RB#0	4.934	6.44	PASS



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#### **Test Graphs**





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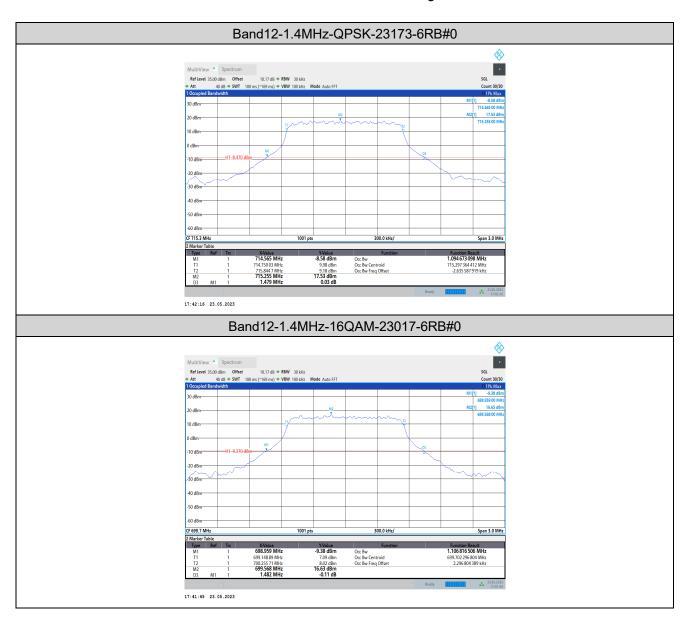
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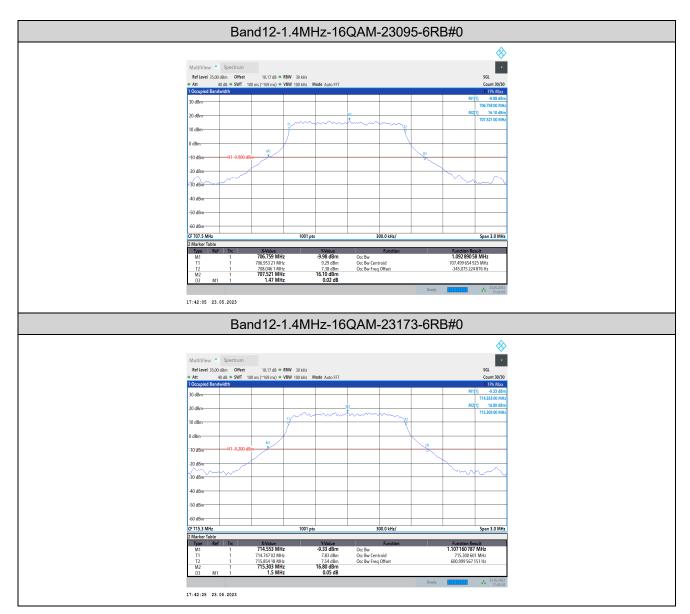
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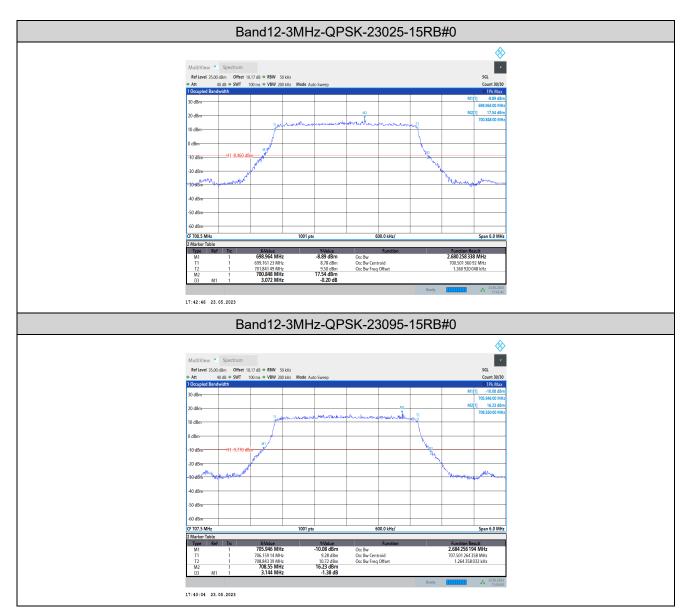
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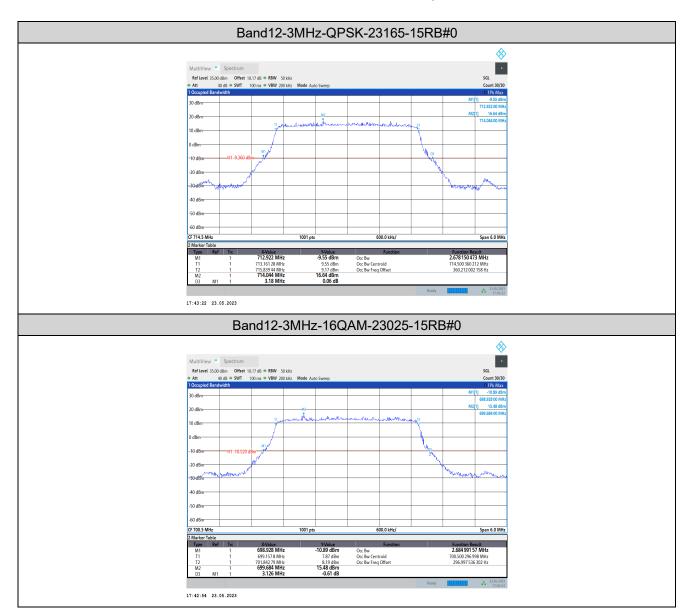
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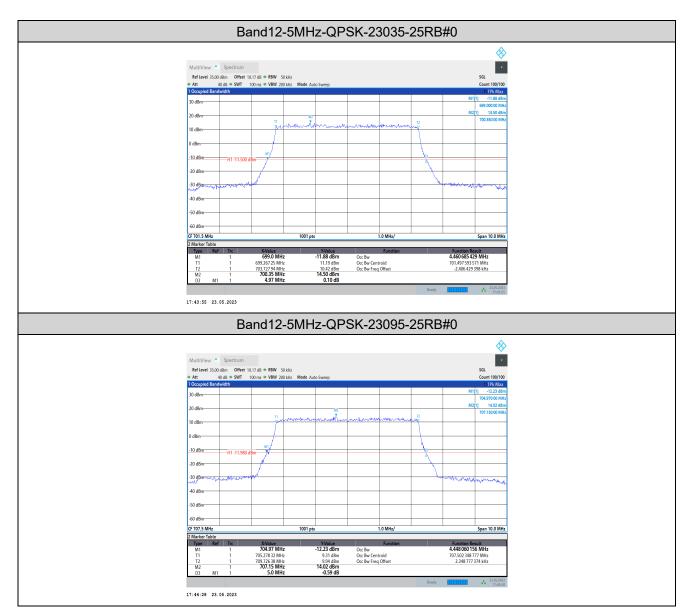
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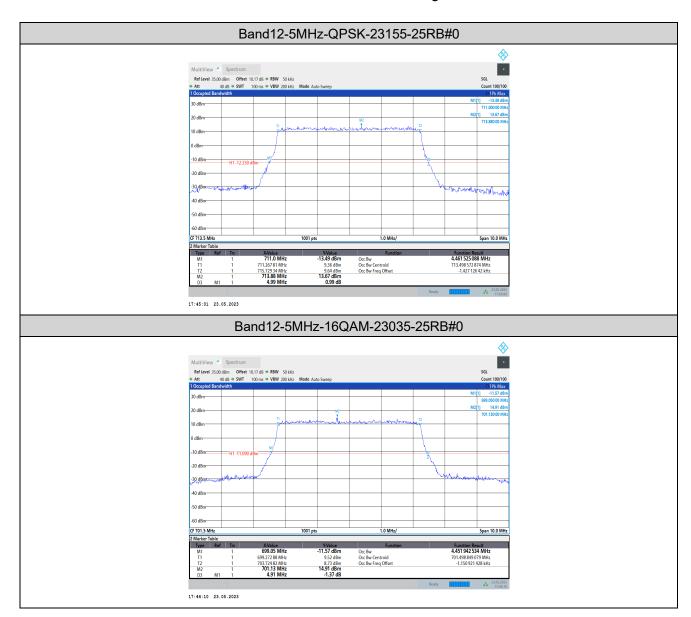
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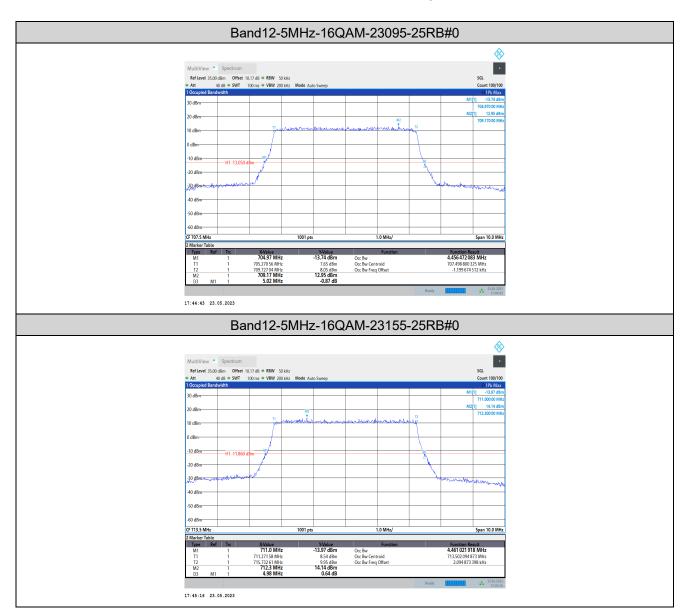
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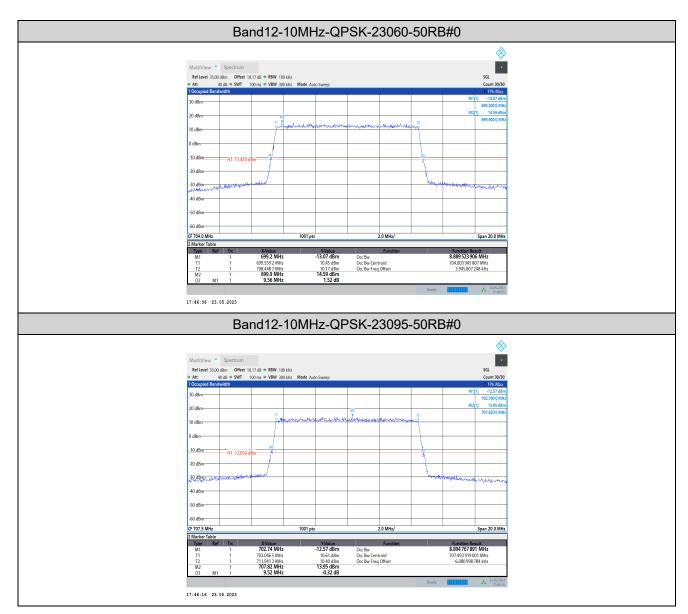
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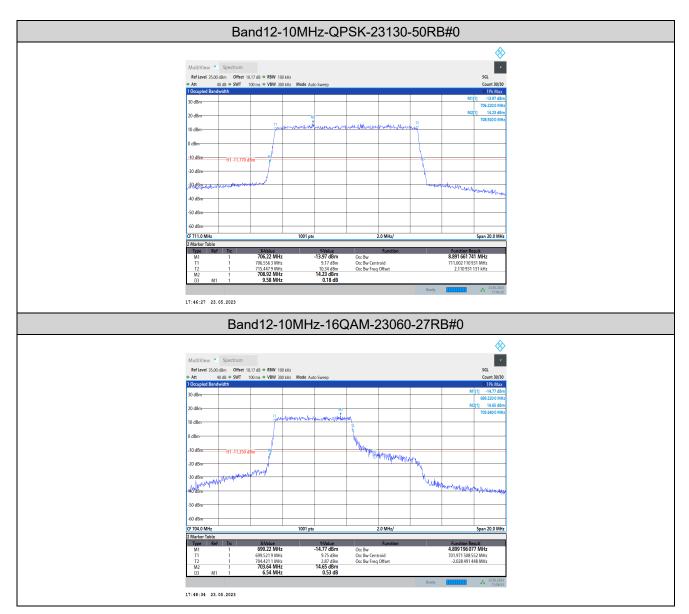
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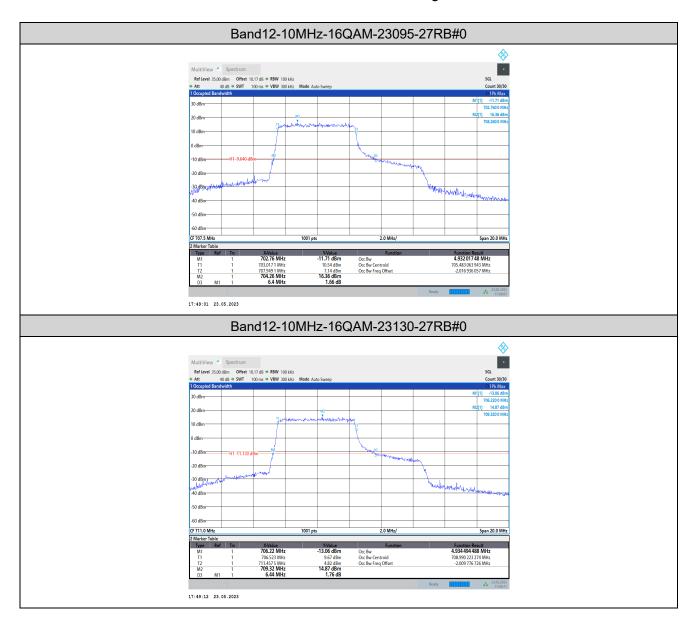
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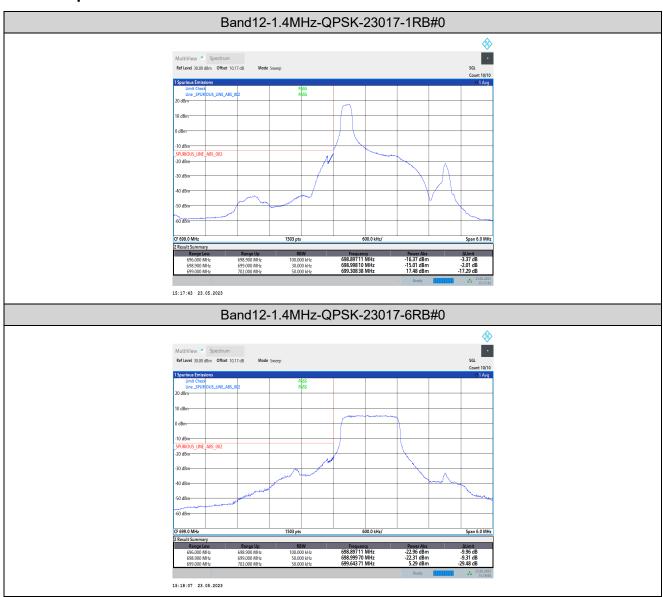
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#### **Band Edge**

#### **Test Graphs**





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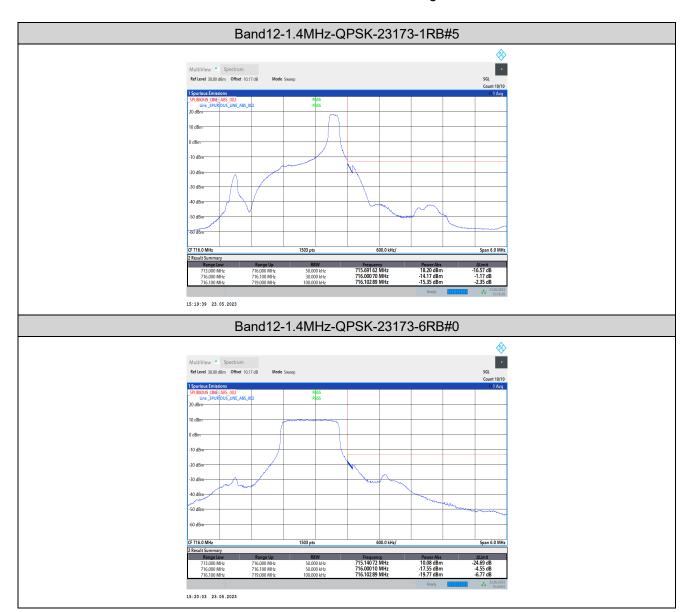
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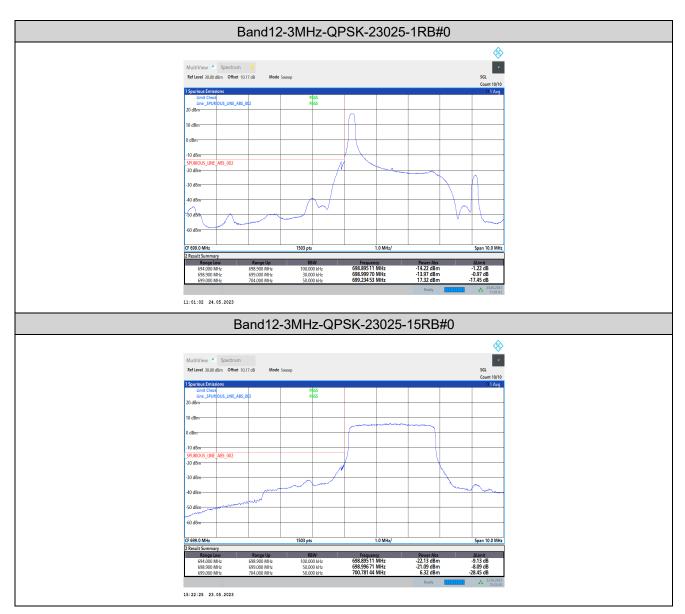
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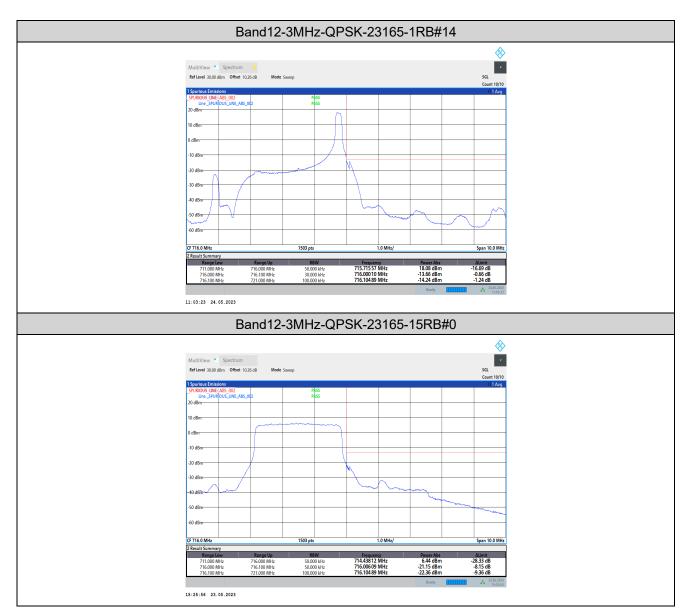
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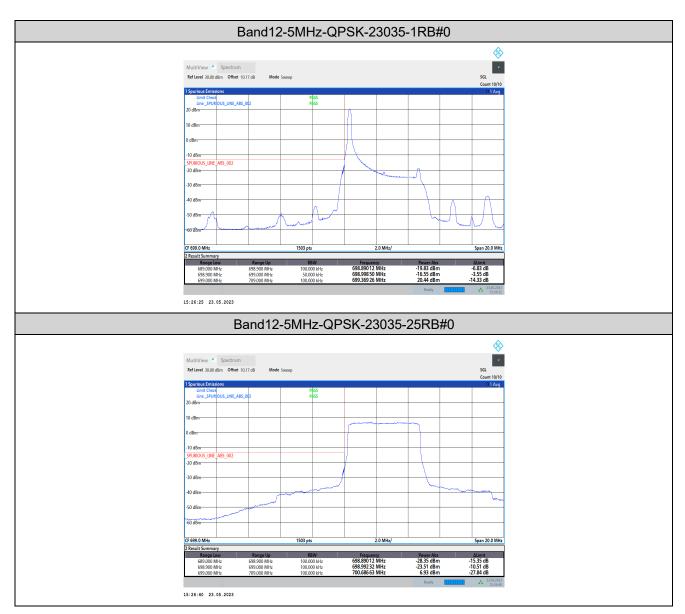
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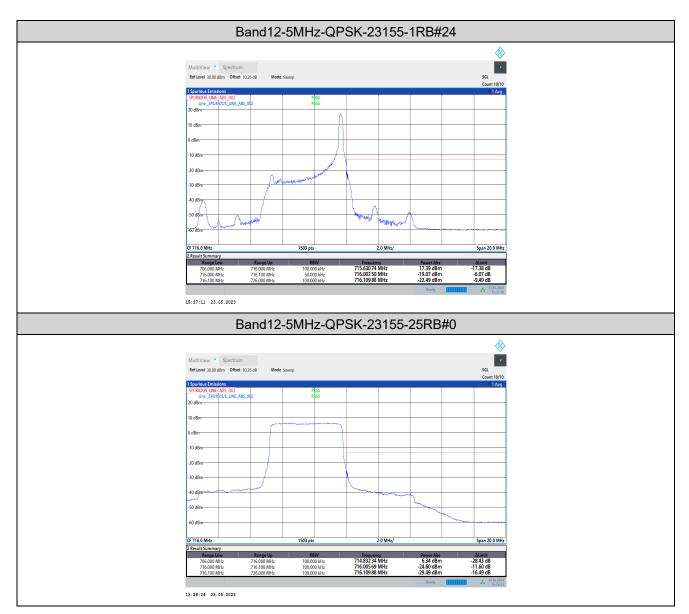
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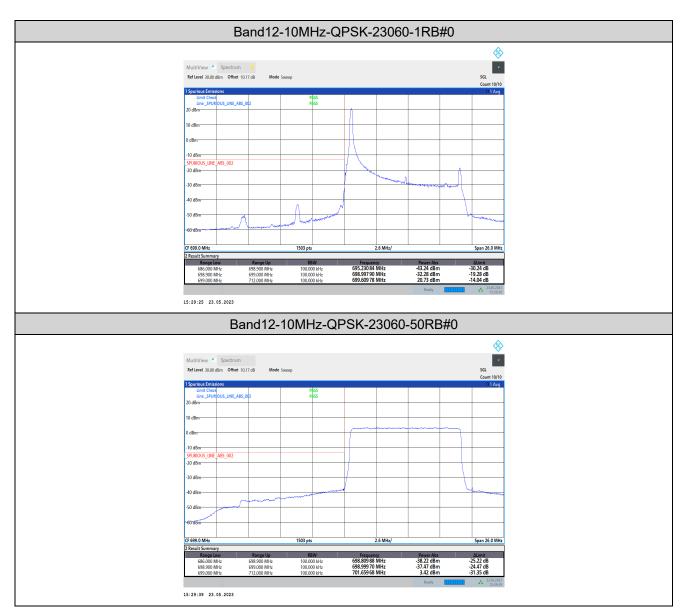
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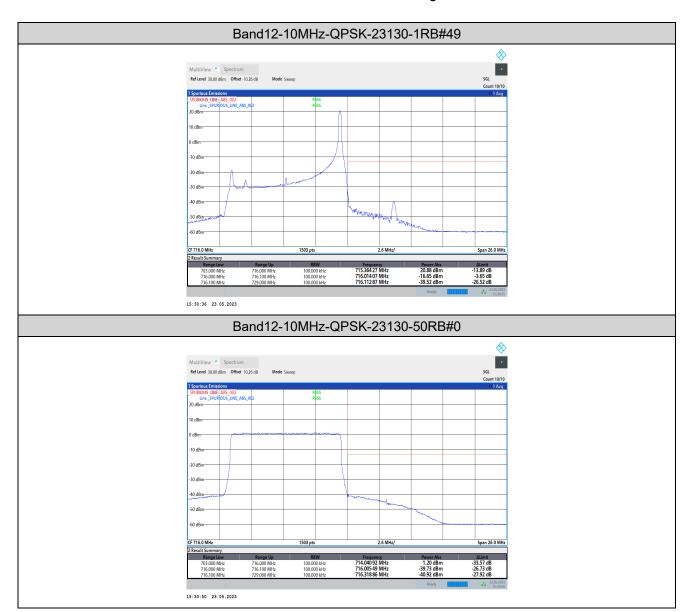
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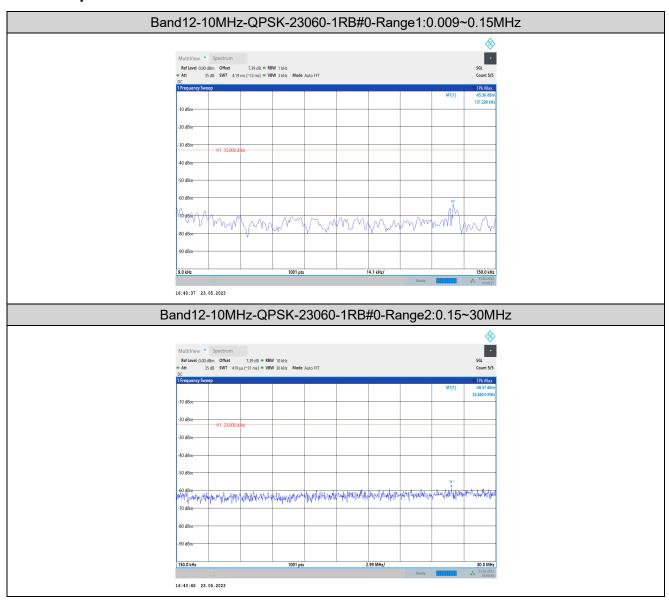
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#### **Conducted Spurious Emission**

#### **Test Graphs**





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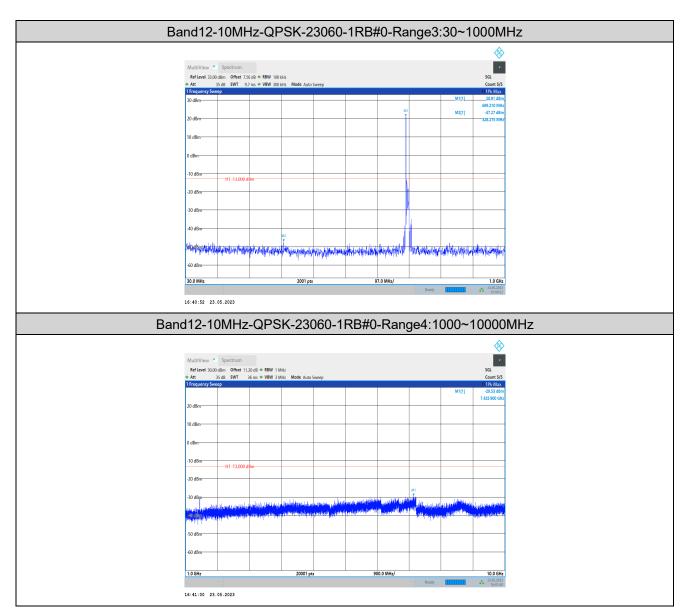
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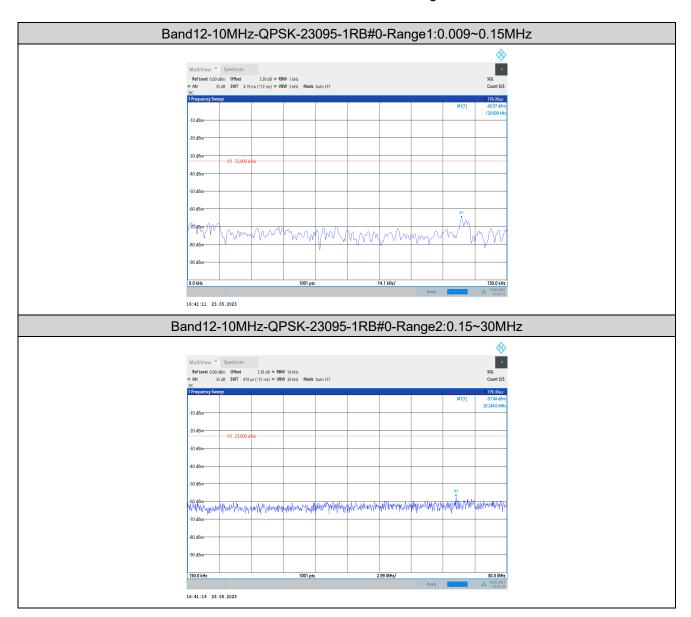
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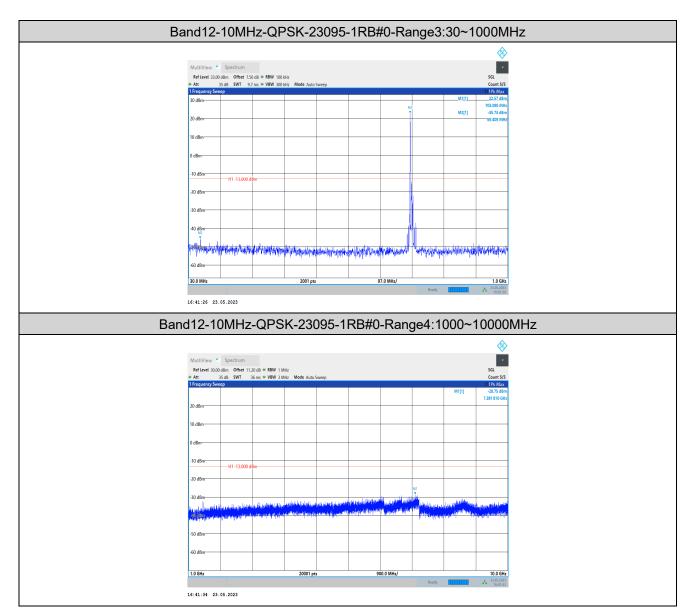
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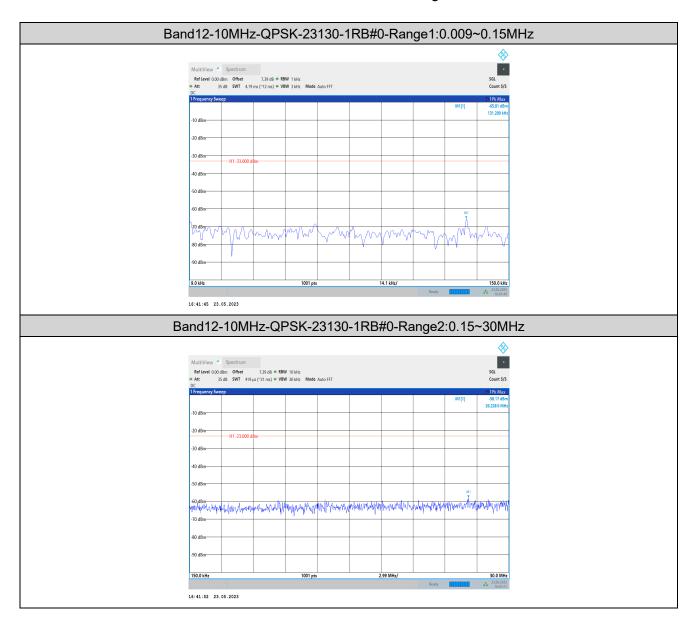
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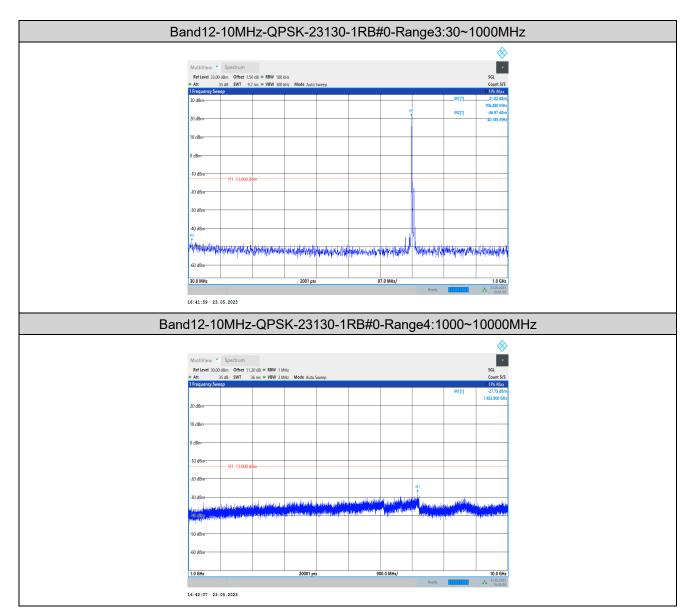
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#### **Field Strength of Spurious Radiation**

Test Band = LTE\_12 \_TM1\_10MHz Test Channel = LCH

Final C	Final Data List												
NO	Freq.	Reading	Factor	AF	Level	Limit	Margin	Height	A   F03				
NO.	[MHz]	[MHz] [dB <sub>µ</sub> V] [dB] [dB/m] [dBm]	[dBm]	[dBm]	[dB]	[cm]	Angle[°]	Polarity					
1	1399.2999	41.77	-19.32	25.80	-47.01	-13.00	34.01	236	291	Horizontal			
2	1765.8457	53.25	-19.16	25.56	-35.61	-13.00	22.61	254	237	Horizontal			
3	2098.6373	34.74	-18.37	27.49	-51.40	-13.00	38.40	142	302	Horizontal			
4	3498.0749	70.09	-49.08	29.79	-44.46	-13.00	31.46	226	320	Horizontal			
5	5624.0812	51.26	-45.44	33.35	-56.09	-13.00	43.09	325	211	Horizontal			
6	9767.9384	58.52	-41.26	38.84	-39.16	-13.00	26.16	198	320	Horizontal			

Final I	Final Data List											
NO.	Freq.	Reading	Factor	AF	Level	Limit	Margin	Height	Angle[°]	Polarity		
	[MHz]	[dBµV]	[dB]	[dB/m]	[dBm]	[dBm]	[dB]	[cm]				
1	1399.2999	34.10	-19.32	25.80	-54.68	-13.00	41.68	263	5	Vertical		
2	1766.3458	37.85	-19.16	25.57	-51.00	-13.00	38.00	227	174	Vertical		
3	2098.8874	30.63	-18.37	27.49	-55.51	-13.00	42.51	145	153	Vertical		
4	3498.0749	65.83	-49.08	29.79	-48.72	-13.00	35.72	289	236	Vertical		
5	7326.9163	50.61	-44.66	36.99	-52.32	-13.00	39.32	256	305	Vertical		
6	9767.9384	54.98	-41.26	38.84	-42.70	-13.00	29.70	321	182	Vertical		



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#### Test Band = LTE\_12 \_TM1\_10MHz Test Channel = MCH

Final [	Final Data List											
NO	Freq.	Reading	Factor	AF	Level	Limit	Margin	Height	A 1 [0]			
NO.	[MHz]	[dBµV]	[dB]	[dB/m]	[dBm]	[dBm]	[dB]	[cm]	Angle[°]	Polarity		
1	1406.3008	42.21	-19.30	25.79	-46.56	-13.00	33.56	263	321	Horizontal		
2	2109.1386	38.42	-18.43	27.48	-47.79	-13.00	35.29	254	139	Horizontal		
3	2949.9937	27.58	-16.89	29.30	-55.27	-13.00	42.27	152	346	Horizontal		
4	3515.5758	73.59	-49.25	29.89	-41.03	-13.00	28.03	322	329	Horizontal		
5	5450.4725	50.65	-45.55	33.40	-56.76	-13.00	43.76	201	309	Horizontal		
6	9767.9384	50.14	-41.26	38.84	-47.54	-13.00	34.54	149	245	Horizontal		

Final I	Final Data List											
NO	Freq.	Reading	Factor	AF	Level	Limit	Margin	Height	A 1 F03			
NO.	[MHz]	[dBµV]	[dB]	[dB/m]	[dBm]	[dBm]	[dB]	[cm]	Angle[°]	Polarity		
1	1406.3008	29.54	-19.30	25.79	-59.23	-13.00	46.23	263	145	Vertical		
2	2109.3887	32.23	-18.43	27.48	-53.98	-13.00	40.98	254	142	Vertical		
3	2812.4766	26.63	-17.01	28.67	-56.97	-13.00	43.97	115	323	Vertical		
4	3515.2258	69.85	-49.24	29.89	-44.76	-13.00	31.76	263	255	Vertical		
5	6015.4008	50.69	-45.51	34.47	-55.61	-13.00	42.61	251	246	Vertical		
6	9768.2884	54.34	-41.26	38.84	-43.34	-13.00	30.34	199	152	Vertical		



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#### Test Band = LTE\_12 \_TM1\_10MHz Test Channel = HCH

Final Data List											
NO	Freq.	Reading	Factor	AF	Level	Limit	Margin	Height	A 1 F03		
NO.	[MHz]	[dBµV]	[dB]	[dB/m]	[dBm]	[dBm]	[dB]	[cm]	Angle[°] ]	Polarity	
1	1413.0516	45.00	-19.27	25.77	-43.76	-13.00	30.76	206	306	Horizontal	
2	2119.64	26.50	-18.51	27.46	-59.81	-13.00	46.81	325	135	Horizontal	
3	2826.2283	26.63	-17.14	28.76	-57.01	-13.00	44.01	254	339	Horizontal	
4	3533.0767	68.40	-49.48	30.00	-46.34	-13.00	33.34	156	34	Horizontal	
5	6780.539	49.36	-44.60	36.26	-54.24	-13.00	41.24	225	98	Horizontal	
6	9900.245	47.58	-41.22	39.10	-49.80	-13.00	36.80	326	9	Horizontal	

Final Data List										
NO.	Freq.	Reading	Factor	AF	Level	Limit	Margin	Height	Angle[°]	Polarity
	[MHz]	[dBµV]	[dB]	[dB/m]	[dBm]	[dBm]	[dB]	[cm]		
1	1413.0516	34.27	-19.27	25.77	-54.49	-13.00	41.49	263	222	Vertical
2	2119.64	25.76	-18.51	27.46	-60.55	-13.00	47.55	254	62	Vertical
3	2826.4783	31.13	-17.14	28.76	-52.51	-13.00	39.51	255	338	Vertical
4	3532.7266	73.81	-49.47	30.00	-40.92	-13.00	27.92	210	250	Vertical
5	5887.2944	50.42	-45.65	34.25	-56.24	-13.00	43.24	150	285	Vertical
6	9009.4505	48.20	-41.69	38.78	-49.97	-13.00	36.97	326	250	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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Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443,

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#### **Frequency Stability**

#### **Test Result**

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	-9.31	-0.013159	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-9.40	-0.013286	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-8.37	-0.011830	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-9.08	-0.012834	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-7.60	-0.010742	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-8.47	-0.011972	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-8.08	-0.011420	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-9.73	-0.013753	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-7.78	-0.010996	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-7.45	-0.010530	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-8.83	-0.012481	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-8.04	-0.011364	PASS

---End of Attachment---



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