

Report No.: SEWA2204000008RG01

Rev.: 01 Page: 1 of 43

# Appendix B.9

LTE Band 17



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Report No.: SEWA2204000008RG01

Rev.: 01 Page: 2 of 43

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

#### **Test Result**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	24.52	22.17	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	24.36	22.01	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	24.97	22.62	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	24.14	21.79	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	24.36	22.01	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	24.54	22.19	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	24.63	22.28	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	24.15	21.8	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	24.52	22.17	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	24.55	22.2	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	24.31	21.96	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	24.17	21.82	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	24.35	22	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	24.28	21.93	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	24.28	21.93	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	23.2	20.85	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	24.38	22.03	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	24.25	21.9	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	24.31	21.96	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	23.16	20.81	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	24.3	21.95	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	24.23	21.88	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	24.3	21.95	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	23.14	20.79	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	23.31	20.96	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#12	23.4	21.05	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	23.2	20.85	34.77	PASS



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Report No.: SEWA2204000008RG01

Rev.: 01 3 of 43 Page:

					Page:	3 of 4	+3	
Band17	5MHz	64QAM	23755	25RB#0	22.17	19.82	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	23.66	21.31	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#12	23.33	20.98	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	23.28	20.93	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	22.19	19.84	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	23.5	21.15	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	23.28	20.93	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	23.25	20.9	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	22.16	19.81	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#0	20.22	17.87	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#12	20.19	17.84	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#24	20.08	17.73	34.77	PASS
Band17	5MHz	256QAM	23755	25RB#0	20.18	17.83	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#0	20.17	17.82	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#12	20.36	18.01	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#24	20.31	17.96	34.77	PASS
Band17	5MHz	256QAM	23790	25RB#0	20.18	17.83	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#0	20.34	17.99	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#12	20.31	17.96	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#24	20.16	17.81	34.77	PASS
Band17	5MHz	256QAM	23825	25RB#0	20.2	17.85	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	24.63	22.28	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	24.51	22.16	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	24.36	22.01	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	24.19	21.84	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	24.32	21.97	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	24.52	22.17	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	24.56	22.21	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	24.16	21.81	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	24.13	21.78	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	24.58	22.23	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	24.12	21.77	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	24.08	21.73	34.77	PASS



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Report No.: SEWA2204000008RG01

Rev.: 01 Page: 4 of 43

					Page:	4 01 4	13	
Band17	10MHz	16QAM	23780	1RB#0	24.1	21.75	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	24.16	21.81	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	24.24	21.89	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	23.2	20.85	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	24.21	21.86	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	24.31	21.96	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	24.11	21.76	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	23.16	20.81	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	24.34	21.99	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	24.28	21.93	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	24.28	21.93	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	23.13	20.78	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	23.21	20.86	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	23.3	20.95	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	23.43	21.08	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	22.23	19.88	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#0	23.35	21	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	23.45	21.1	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	23.58	21.23	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	22.19	19.84	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	23.43	21.08	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	23.43	21.08	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	23.16	20.81	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	22.07	19.72	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#0	20.11	17.76	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#24	20.19	17.84	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#49	20.19	17.84	34.77	PASS
Band17	10MHz	256QAM	23780	50RB#0	20.28	17.93	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#0	20.18	17.83	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#24	20.3	17.95	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#49	20.26	17.91	34.77	PASS
Band17	10MHz	256QAM	23790	50RB#0	20.24	17.89	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#0	20.21	17.86	34.77	PASS
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Report No.: SEWA2204000008RG01

Rev.: 01 Page: 5 of 43

Ban	d17	10MHz	256QAM	23800	1RB#24	20.33	17.98	34.77	PASS
Ban	d17	10MHz	256QAM	23800	1RB#49	20.19	17.84	34.77	PASS
Ban	d17	10MHz	256QAM	23800	50RB#0	20.19	17.84	34.77	PASS



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Rev.: 01 Page: 6 of 43

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

#### **Test Result**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	10MHz	QPSK	23780	50RB#0	4.40	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	4.58	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	4.50	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	5.26	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	5.38	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	5.38	13	PASS
Band17	10MHz	64QAM	23780	50RB#0	6.08	13	PASS
Band17	10MHz	64QAM	23790	50RB#0	6.18	13	PASS
Band17	10MHz	64QAM	23800	50RB#0	6.20	13	PASS
Band17	10MHz	256QAM	23780	50RB#0	6.48	13	PASS
Band17	10MHz	256QAM	23790	50RB#0	6.56	13	PASS
Band17	10MHz	256QAM	23800	50RB#0	6.56	13	PASS



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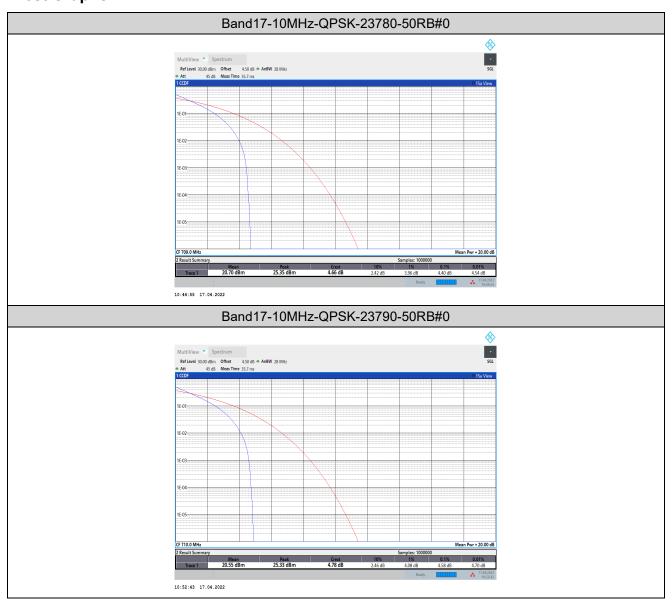
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Report No.: SEWA2204000008RG01

Rev.: 01 Page: 7 of 43

#### **Test Graphs**





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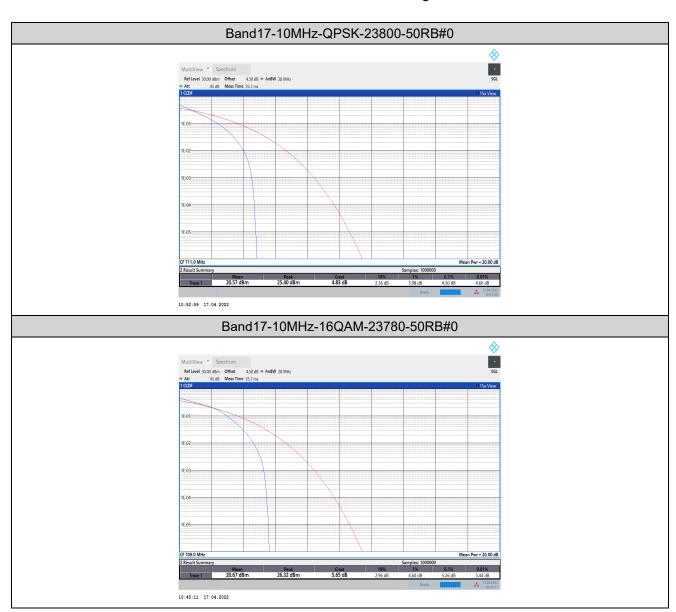
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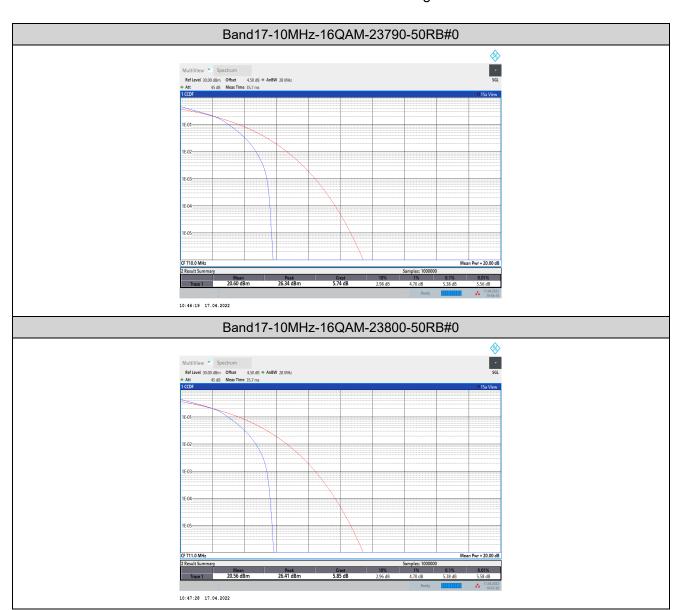
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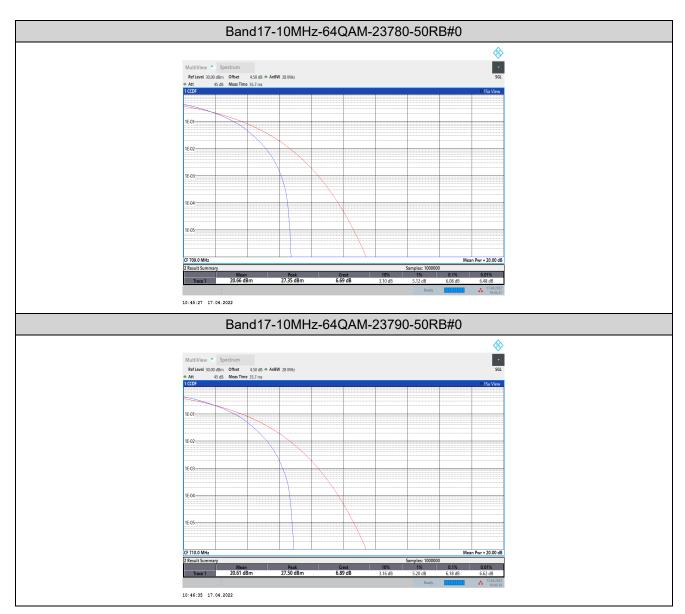
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Rev.: 01

Page: 10 of 43





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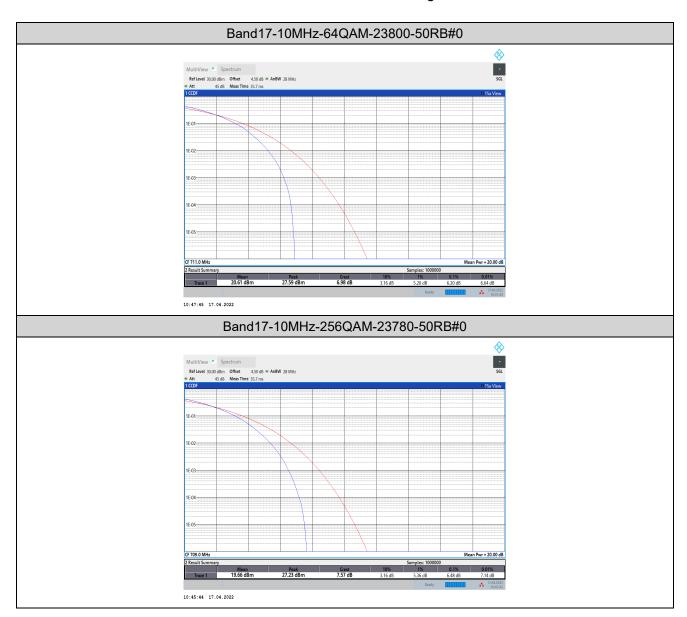
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Report No.: SEWA2204000008RG01

Rev.: 01

Page: 11 of 43





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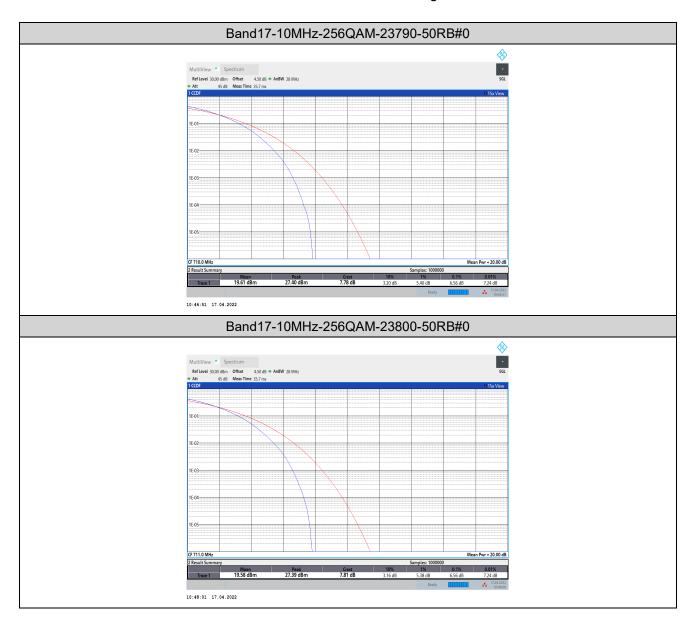
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Report No.: SEWA2204000008RG01

Rev.: 01

Page: 12 of 43





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Report No.: SEWA2204000008RG01

Rev.:

13 of 43 Page:

#### **Modulation Characteristics**

#### **Test Result**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band17	10MHz	QPSK	23790	50RB#0	PASS	PASS
Band17	10MHz	16QAM	23790	50RB#0	PASS	PASS
Band17	10MHz	64QAM	23790	50RB#0	PASS	PASS
Band17	10MHz	256QAM	23790	50RB#0	PASS	PASS



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Report No.: SEWA2204000008RG01

Rev.: 01

Page: 14 of 43

#### **Test Graphs**





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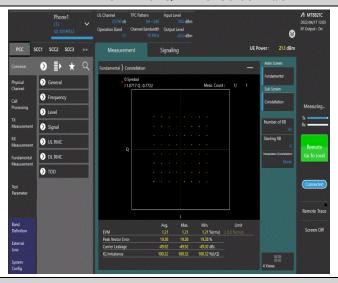


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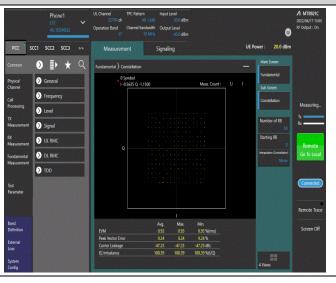
Rev.: 01

Page: 15 of 43

#### Band17-10MHz-64QAM-23790-50RB#0



#### Band17-10MHz-256QAM-23790-50RB#0





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Report No.: SEWA2204000008RG01

Rev.: 01

Page: 16 of 43

#### 26dB Bandwidth and Occupied Bandwidth

#### **Test Result**

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.484	5.11	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.477	5.02	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.476	5.04	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.476	5.13	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.480	5.04	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.483	5.10	PASS
Band17	5MHz	64QAM	23755	25RB#0	4.478	5.01	PASS
Band17	5MHz	64QAM	23790	25RB#0	4.478	5.06	PASS
Band17	5MHz	64QAM	23825	25RB#0	4.482	5.06	PASS
Band17	5MHz	256QAM	23755	25RB#0	4.478	5.06	PASS
Band17	5MHz	256QAM	23790	25RB#0	4.483	4.99	PASS
Band17	5MHz	256QAM	23825	25RB#0	4.483	5.04	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.953	9.87	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.958	9.97	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.946	9.87	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.942	9.90	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.943	9.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.960	9.80	PASS
Band17	10MHz	64QAM	23780	50RB#0	8.948	9.83	PASS
Band17	10MHz	64QAM	23790	50RB#0	8.930	9.80	PASS
Band17	10MHz	64QAM	23800	50RB#0	8.952	9.83	PASS
Band17	10MHz	256QAM	23780	50RB#0	8.926	9.80	PASS
Band17	10MHz	256QAM	23790	50RB#0	8.957	10.00	PASS
Band17	10MHz	256QAM	23800	50RB#0	8.947	9.83	PASS



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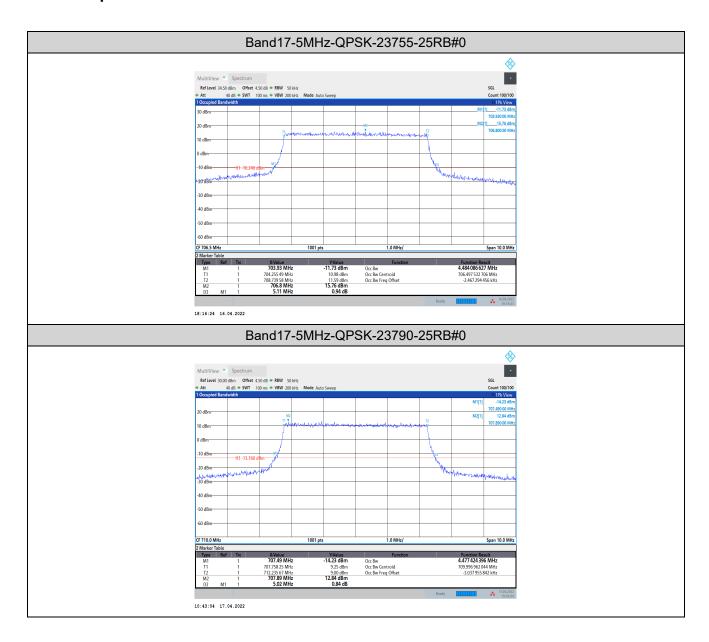


Report No.: SEWA2204000008RG01

Rev.:

Page: 17 of 43

#### **Test Graphs**





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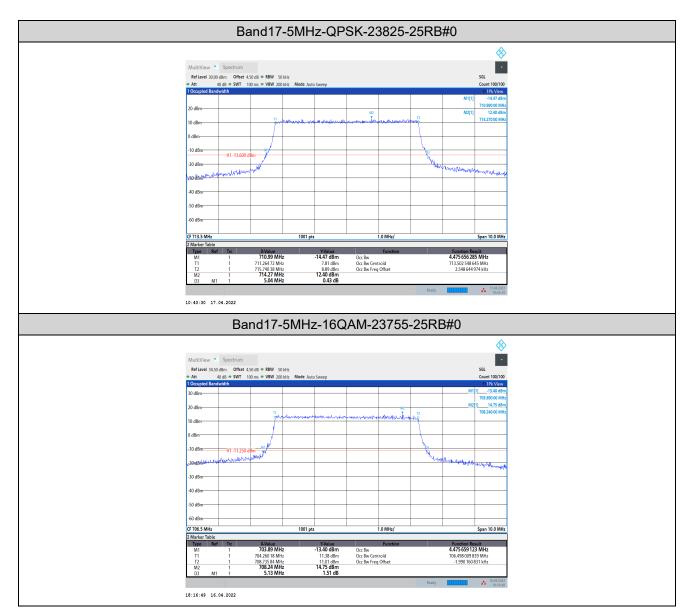
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Report No.: SEWA2204000008RG01

Rev.: 01

Page: 18 of 43





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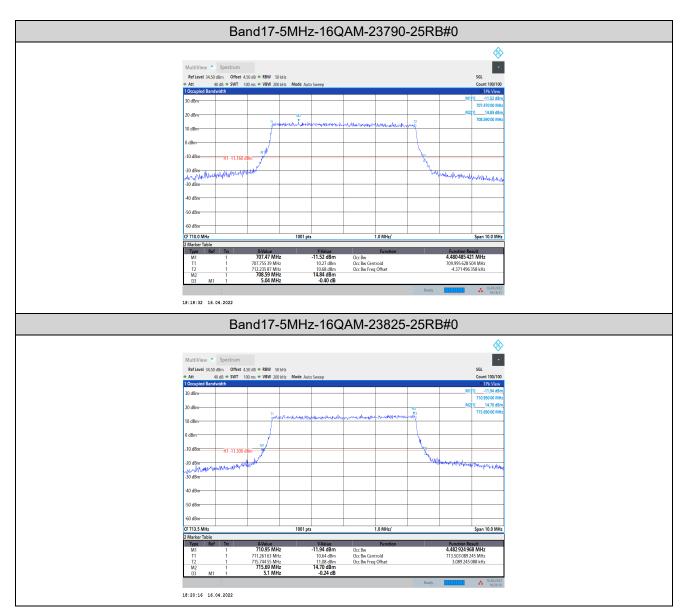
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Report No.: SEWA2204000008RG01

Rev.: 01

Page: 19 of 43





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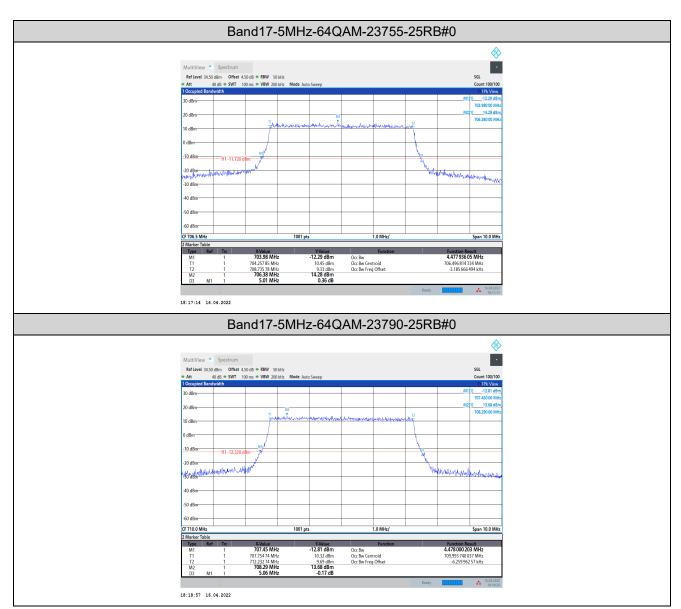
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Report No.: SEWA2204000008RG01

Rev.: 01

Page: 20 of 43





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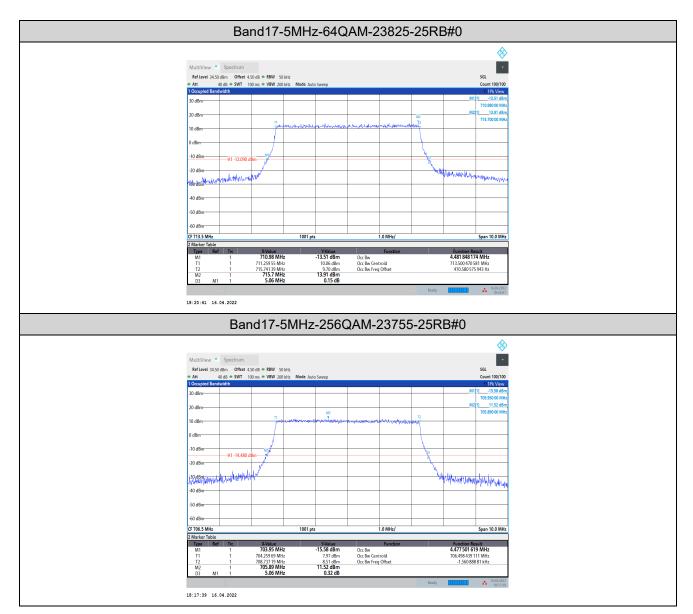
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Report No.: SEWA2204000008RG01

Rev.: 01

Page: 21 of 43





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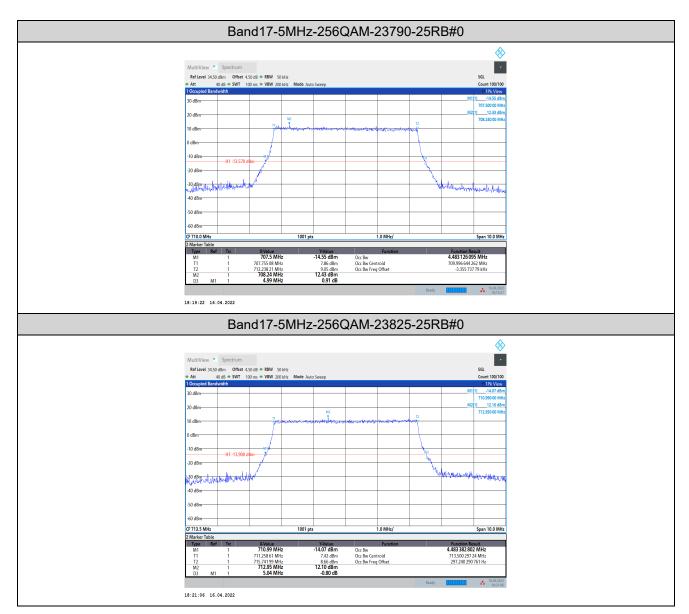
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Report No.: SEWA2204000008RG01

Rev.: 01

Page: 22 of 43





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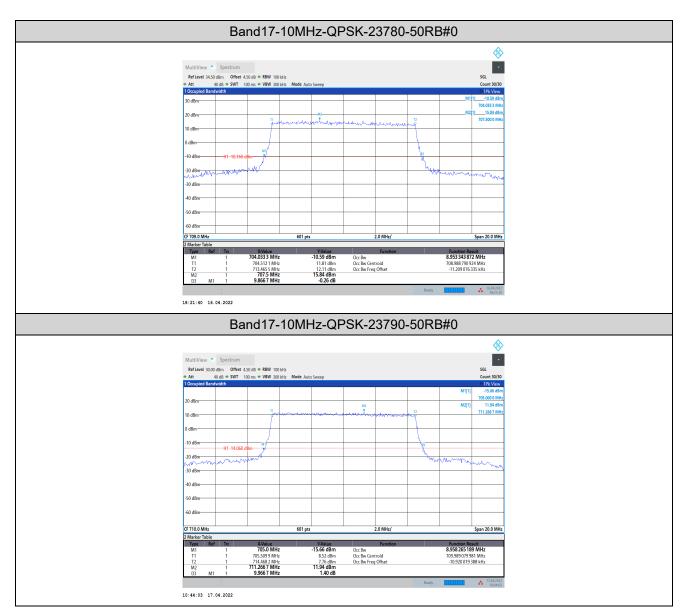
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Report No.: SEWA2204000008RG01

Rev.: 01

Page: 23 of 43





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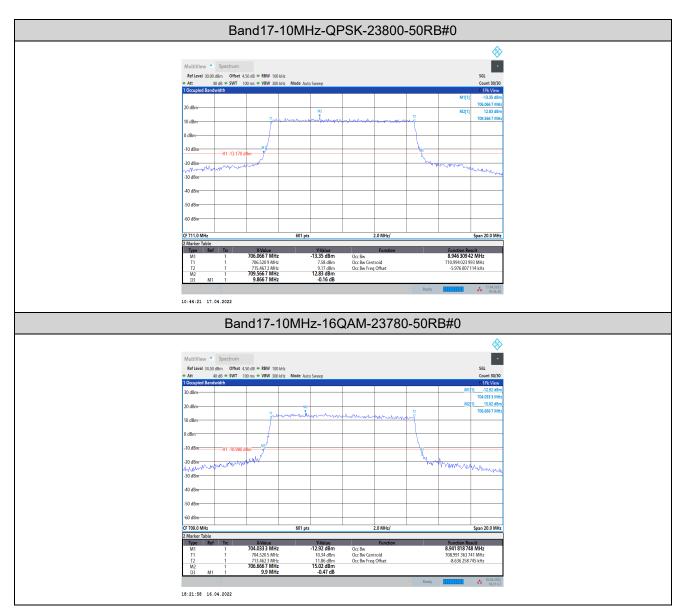
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Report No.: SEWA2204000008RG01

Rev.: 01

Page: 24 of 43





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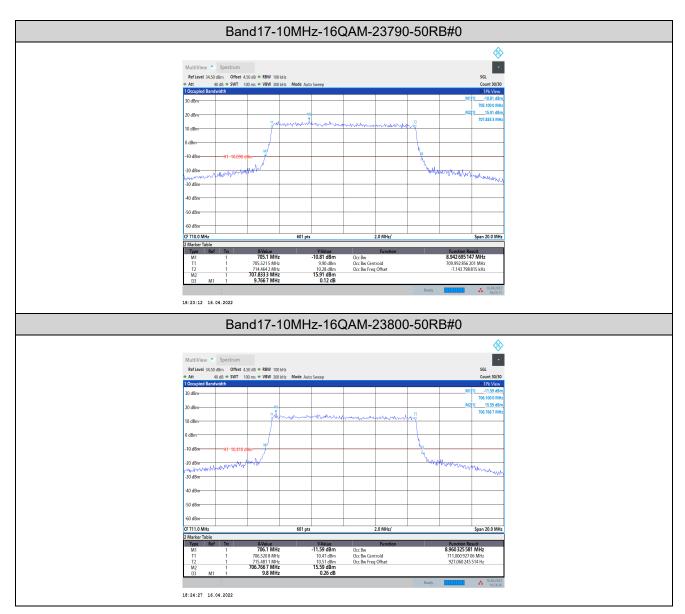
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Report No.: SEWA2204000008RG01

Rev.: 01

Page: 25 of 43





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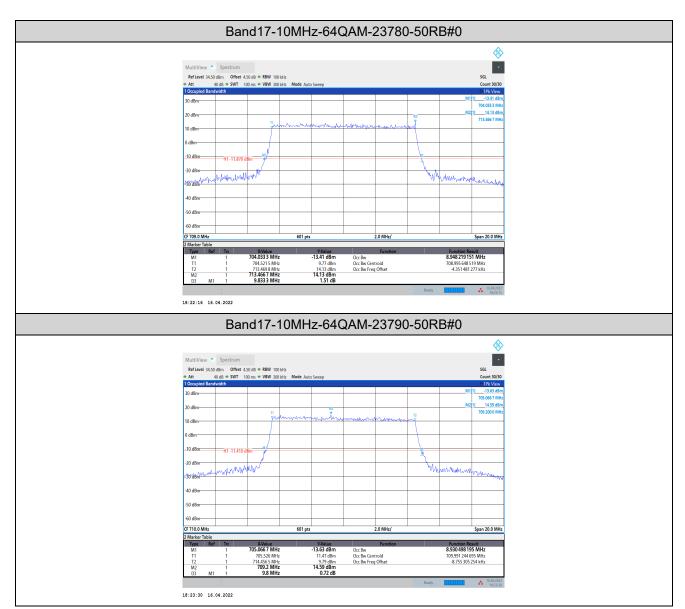
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Report No.: SEWA2204000008RG01

Rev.: 01

Page: 26 of 43





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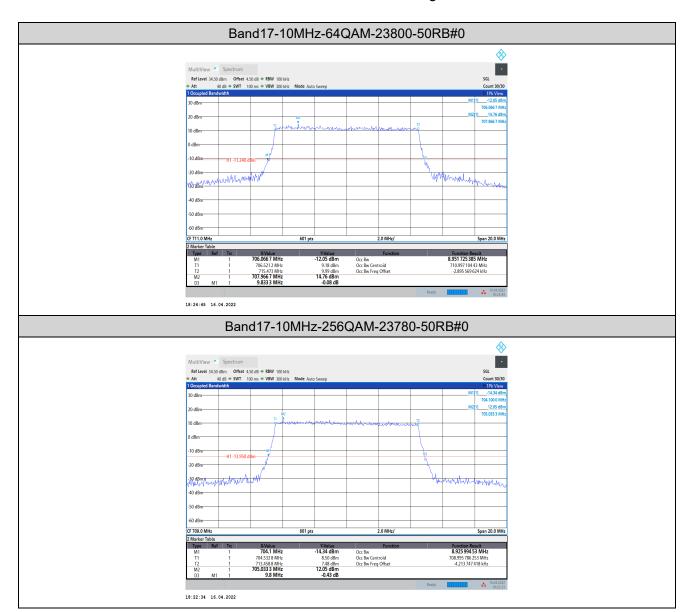
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Report No.: SEWA2204000008RG01

Rev.: 01

Page: 27 of 43





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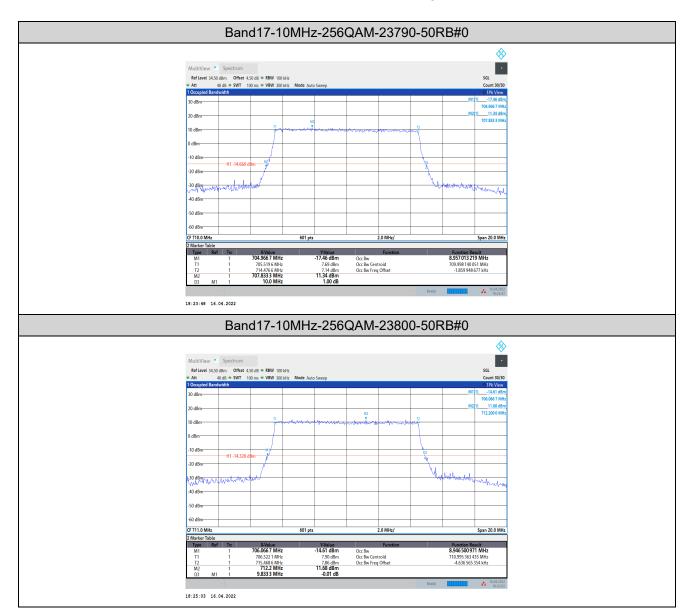
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Report No.: SEWA2204000008RG01

Rev.: 01

Page: 28 of 43





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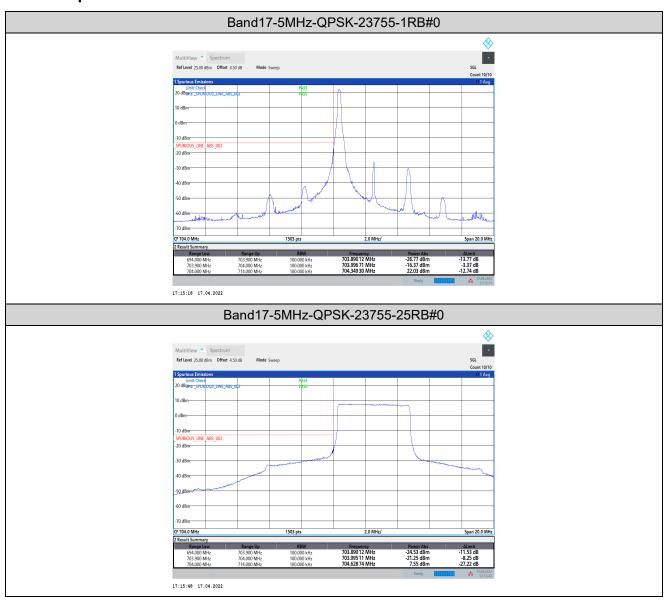
Report No.: SEWA2204000008RG01

Rev.: 01

Page: 29 of 43

#### **Band Edge**

#### **Test Graphs**





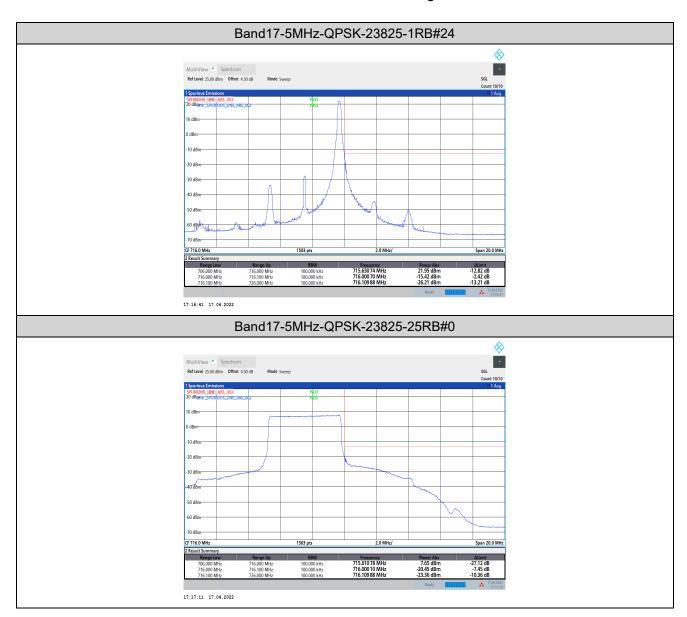
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Report No.: SEWA2204000008RG01

Rev.: 01

Page: 30 of 43





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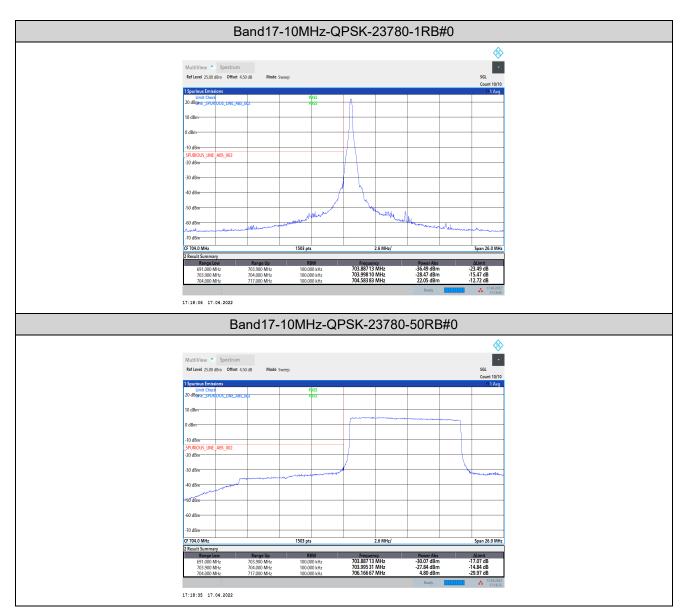
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Report No.: SEWA2204000008RG01

Rev.: 01

Page: 31 of 43





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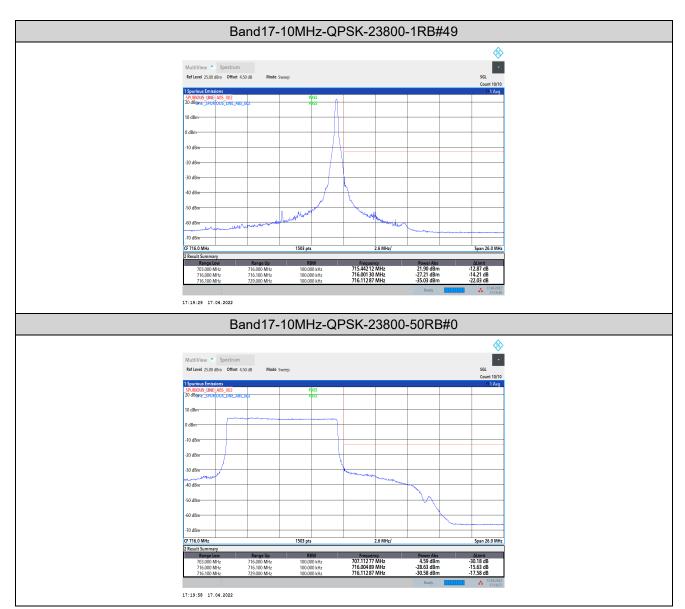
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Rev.: 01

Page: 32 of 43





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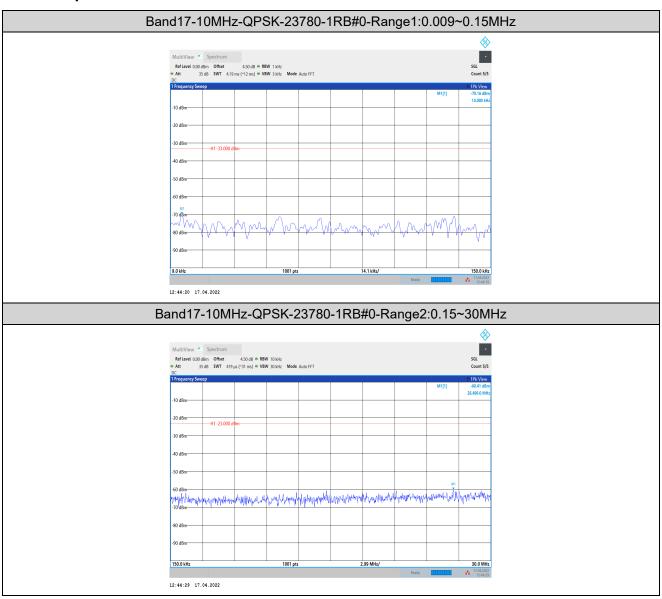
Report No.: SEWA2204000008RG01

Rev.: 01

Page: 33 of 43

#### **Conducted Spurious Emission**

#### **Test Graphs**





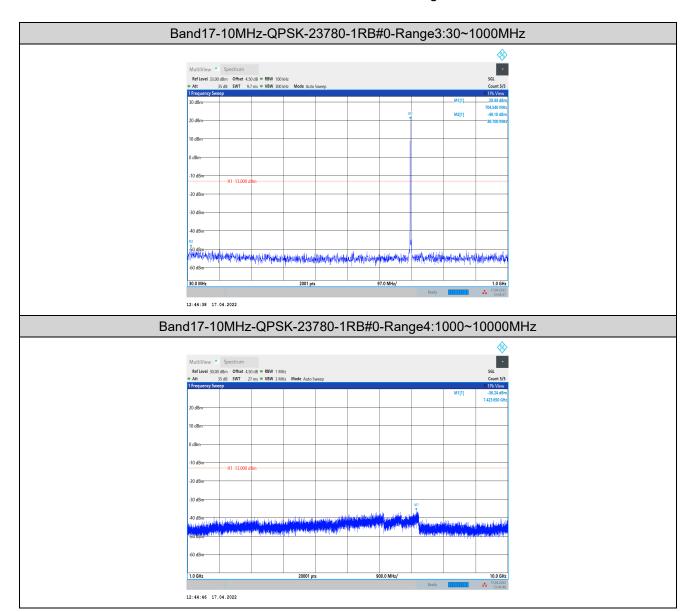
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Report No.: SEWA2204000008RG01

Rev.: 01

Page: 34 of 43





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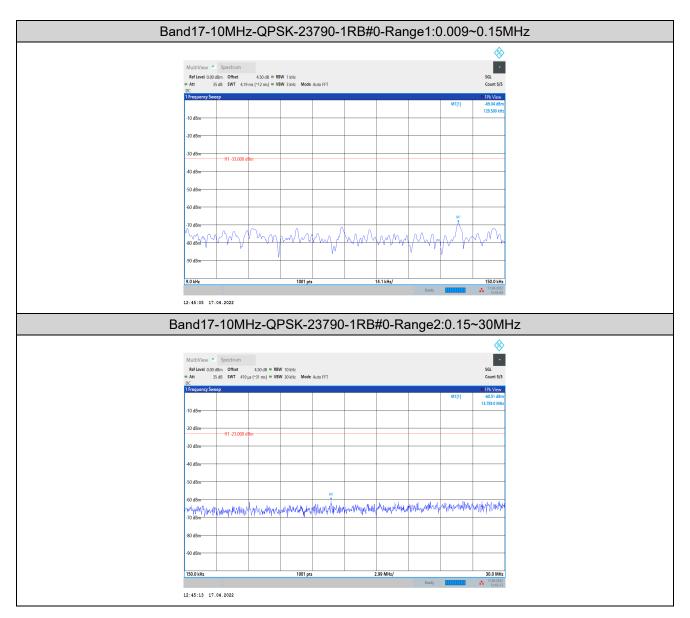
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Page: 35 of 43





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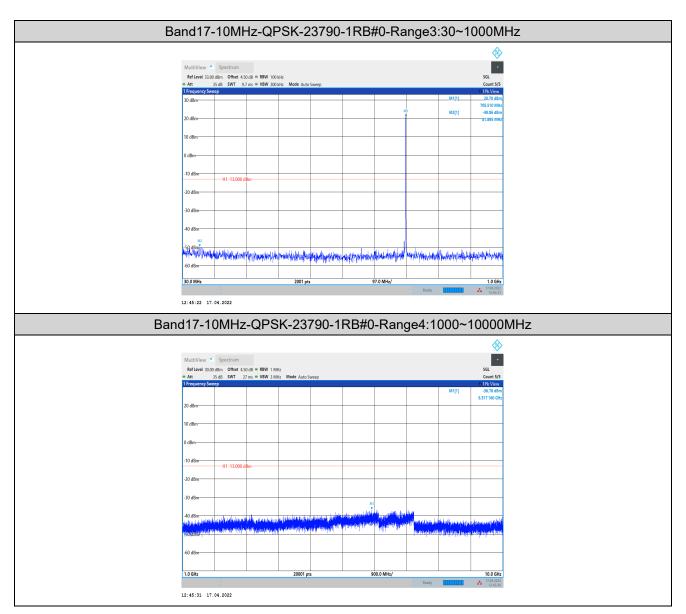
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Page: 36 of 43





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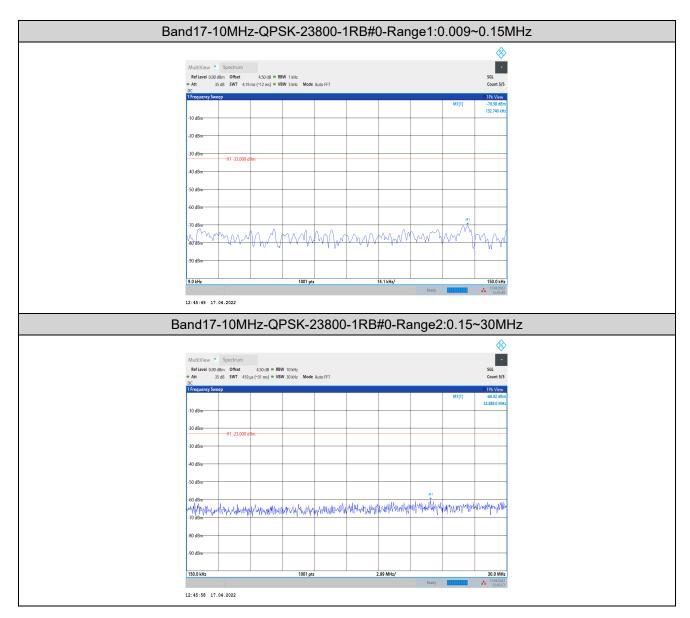
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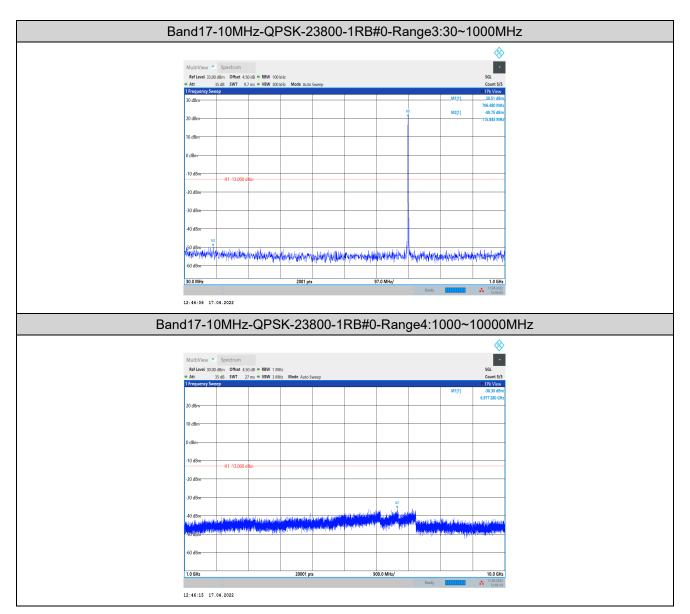
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Rev.: 01

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Report No.: SEWA2204000008RG01

Rev.: 01

Page: 39 of 43

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

Test Band = LTE Band 17\_ TM1
Test Channel = Low Channel

Final	Final Data List											
NO.	Frequency	Reading	Factor	Level	Limit	Margin	Height	Angle	Polarity			
NO.	[MHz]	[dBµV]	[dB]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity			
1	1409.18	58.31	-118.56	-60.25	-13.00	47.25	263	235	Horizontal			
2	2113.77	57.19	-115.99	-58.80	-13.00	45.80	251	296	Horizontal			
3	2818.36	51.51	-112.98	-61.47	-13.00	48.47	175	341	Horizontal			
4	3522.95	50.24	-111.83	-61.59	-13.00	48.59	265	94	Horizontal			
5	4227.54	50.76	-109.41	-58.65	-13.00	45.65	241	63	Horizontal			
6	4932.13	50.84	-107.93	-57.09	-13.00	44.09	178	47	Horizontal			

Final	Final Data List											
NO.	Frequency	Reading	Factor	Level	Limit	Margin	Height	Angle	Polarity			
NO.	[MHz]	[dBµV]	[dB]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity			
1	1409.18	54.04	-118.56	-64.52	-13.00	51.52	263	298	Vertical			
2	2113.77	51.97	-115.99	-64.02	-13.00	51.02	251	0	Vertical			
3	2818.36	51.93	-112.98	-61.05	-13.00	48.05	175	157	Vertical			
4	3522.95	50.35	-111.83	-61.48	-13.00	48.48	265	9	Vertical			
5	4227.54	48.71	-109.41	-60.70	-13.00	47.70	254	298	Vertical			
6	4932.13	50.02	-107.93	-57.91	-13.00	44.91	144	221	Vertical			



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Report No.: SEWA2204000008RG01

Rev.: 01

Page: 40 of 43

## Test Band = LTE Band 17\_ TM1 Test Channel = Mid Channel

Final	Final Data List											
NO.	Frequency	Reading	Factor	Level	Limit	Margin	Height	Angle	Dolority			
NO.	[MHz]	[dBµV]	[dB]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity			
1	1411.18	54.98	-118.55	-63.57	-13.00	50.57	263	247	Horizontal			
2	2116.77	59.30	-115.98	-56.68	-13.00	43.68	251	155	Horizontal			
3	2822.36	51.39	-112.97	-61.58	-13.00	48.58	174	2	Horizontal			
4	3527.95	51.01	-111.81	-60.80	-13.00	47.80	196	340	Horizontal			
5	4233.54	49.33	-109.40	-60.07	-13.00	47.07	265	360	Horizontal			
6	4939.13	49.51	-107.90	-58.39	-13.00	45.39	241	356	Horizontal			

Final	Final Data List											
NO.	Frequency	Reading	Factor	Level	Limit	Margin	Height	Angle	Dolority			
NO.	[MHz]	[dBµV]	[dB]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity			
1	1411.18	52.22	-118.55	-66.33	-13.00	53.33	263	142	Vertical			
2	2116.77	52.86	-115.98	-63.12	-13.00	50.12	241	235	Vertical			
3	2822.36	50.47	-112.97	-62.50	-13.00	49.50	175	329	Vertical			
4	3527.95	50.35	-111.81	-61.46	-13.00	48.46	265	33	Vertical			
5	4233.54	47.78	-109.40	-61.62	-13.00	48.62	255	251	Vertical			
6	4939.13	49.81	-107.90	-58.09	-13.00	45.09	254	33	Vertical			



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Report No.: SEWA2204000008RG01

Rev.: 01

Page: 41 of 43

# Test Band = LTE Band 17\_ TM1 Test Channel = High Channel

Final	Final Data List											
NO.	Frequency	Reading	Factor	Level	Limit	Margin	Height	Angle	Dolority			
NO.	[MHz]	[dBµV]	[dB]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity			
1	1413.18	55.87	-118.54	-62.67	-13.00	49.67	263	247	Horizontal			
2	2119.5556	58.61	-115.97	-57.36	-13.00	44.36	251	155	Horizontal			
3	2826.36	50.67	-112.96	-62.29	-13.00	49.29	176	216	Horizontal			
4	3532.95	50.41	-111.79	-61.38	-13.00	48.38	265	360	Horizontal			
5	4239.54	50.41	-109.39	-58.98	-13.00	45.98	284	309	Horizontal			
6	4946.13	50.20	-107.87	-57.67	-13.00	44.67	179	360	Horizontal			

Final Data List										
NO.	Frequency	Reading	Factor	Level	Limit	Margin	Height	Angle	Polarity	
	[MHz]	[dBµV]	[dB]	[dBm]	[dBm]	[dB]	[cm]	[°]	Folanty	
1	1413.18	54.29	-118.54	-64.25	-13.00	51.25	263	174	Vertical	
2	2119.77	52.93	-115.97	-63.04	-13.00	50.04	251	158	Vertical	
3	2826.36	50.46	-112.96	-62.50	-13.00	49.50	174	236	Vertical	
4	3532.95	50.53	-111.79	-61.26	-13.00	48.26	142	299	Vertical	
5	4239.54	49.24	-109.39	-60.15	-13.00	47.15	263	331	Vertical	
6	4946.13	49.85	-107.87	-58.02	-13.00	45.02	241	9	Vertical	



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Report No.: SEWA2204000008RG01

Rev.: 01

Page: 42 of 43

#### **Frequency Stability**

#### **Test Result**

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	0.00	0.000000	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	-1.10	-0.001549	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	0.50	0.000704	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	-0.20	-0.000282	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	-0.70	-0.000986	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	-0.30	-0.000423	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	0.70	0.000986	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	-0.60	-0.000845	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	-1.00	-0.001408	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	-0.30	-0.000423	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	0.20	0.000282	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	0.10	0.000141	PASS

The End



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Report No.: SEWA2204000008RG01

Rev.: 01

43 of 43 Page:



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