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Appendix B.10

LTE Band 17



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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
Band17	5MHz	QPSK	23755	1RB#0	22.71	20.24	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	22.73	20.26	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	22.69	20.22	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	21.83	19.36	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	22.73	20.26	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	22.81	20.34	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	22.72	20.25	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	21.8	19.33	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	22.7	20.23	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	22.76	20.29	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	22.65	20.18	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	21.7	19.23	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.02	19.55	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.01	19.54	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	22.13	19.66	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	20.85	18.38	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.02	19.55	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.12	19.65	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	22.05	19.58	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	20.84	18.37	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	22.04	19.57	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	21.96	19.49	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.03	19.56	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	20.81	18.34	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	21.91	19.44	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#12	22.05	19.58	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	22	19.53	34.77	PASS



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Band17	5MHz	64QAM	23755	25RB#0	20.82	18.35	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	21.87	19.4	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#12	21.85	19.38	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	21.99	19.52	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	20.79	18.32	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	21.95	19.48	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	21.86	19.39	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	21.8	19.33	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	19.83	17.36	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	22.77	20.3	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	22.77	20.3	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	22.66	20.19	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	21.76	19.29	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	22.74	20.27	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	22.72	20.25	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	22.64	20.17	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	21.81	19.34	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	22.67	20.2	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	22.63	20.16	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	22.57	20.1	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	21.77	19.3	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	22.02	19.55	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.11	19.64	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.02	19.55	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	20.74	18.27	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.07	19.6	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	21.95	19.48	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	22.09	19.62	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	20.7	18.23	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	22.08	19.61	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	22.06	19.59	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	21.96	19.49	34.77	PASS

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Band17	10MHz	16QAM	23800	50RB#0	20.76	18.29	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	20.77	18.3	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	21.09	18.62	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	20.93	18.46	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	19.66	17.19	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#0	20.95	18.48	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	20.93	18.46	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	21.01	18.54	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	19.76	17.29	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	21.01	18.54	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	20.9	18.43	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	20.92	18.45	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	19.79	17.32	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
Band17	10MHz	QPSK	23780	50RB#0	5.32	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.38	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.28	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.08	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.02	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.06	13	PASS
Band17	10MHz	64QAM	23780	50RB#0	6.52	13	PASS
Band17	10MHz	64QAM	23790	50RB#0	6.54	13	PASS
Band17	10MHz	64QAM	23800	50RB#0	6.50	13	PASS



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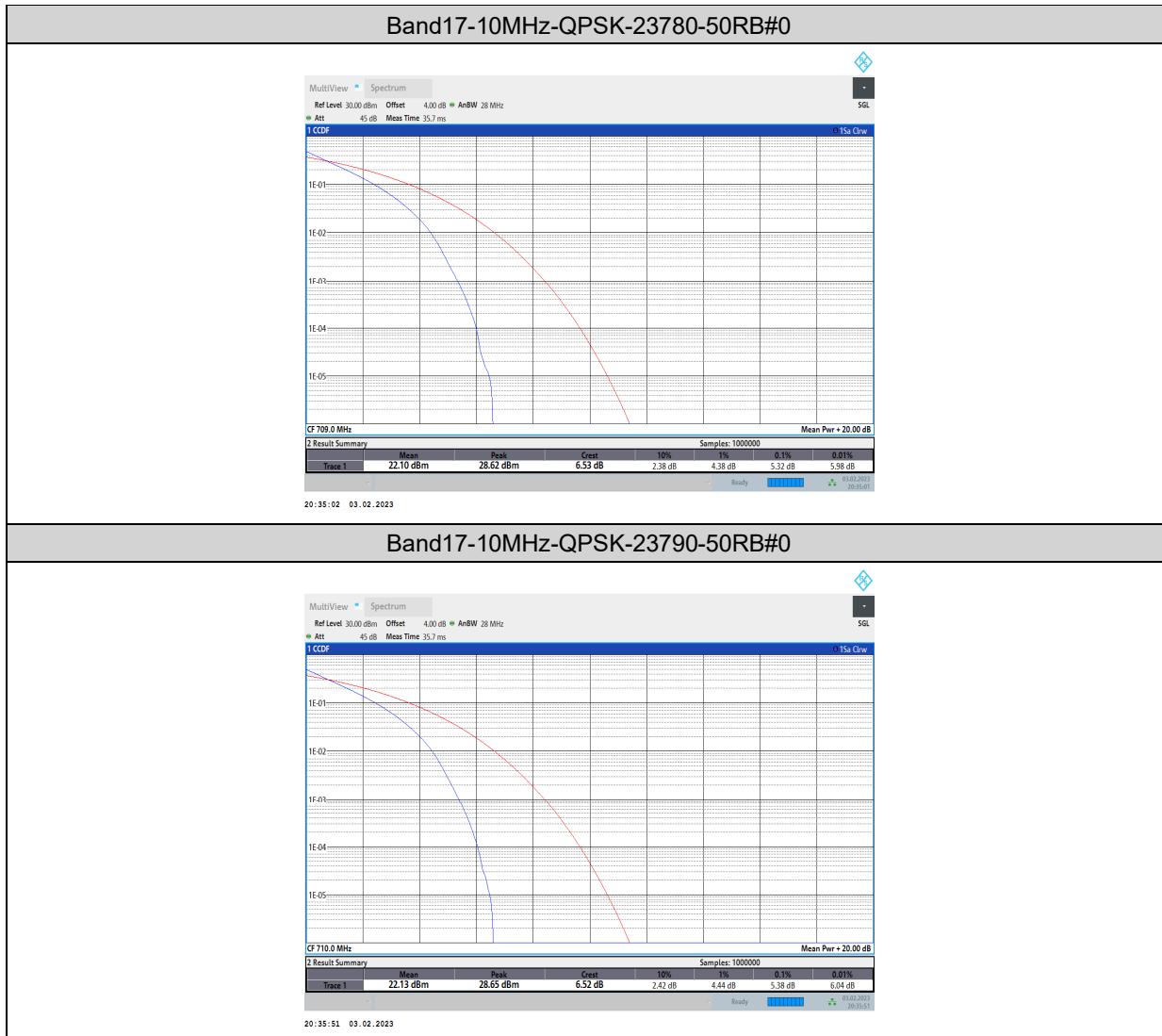
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Test Graphs



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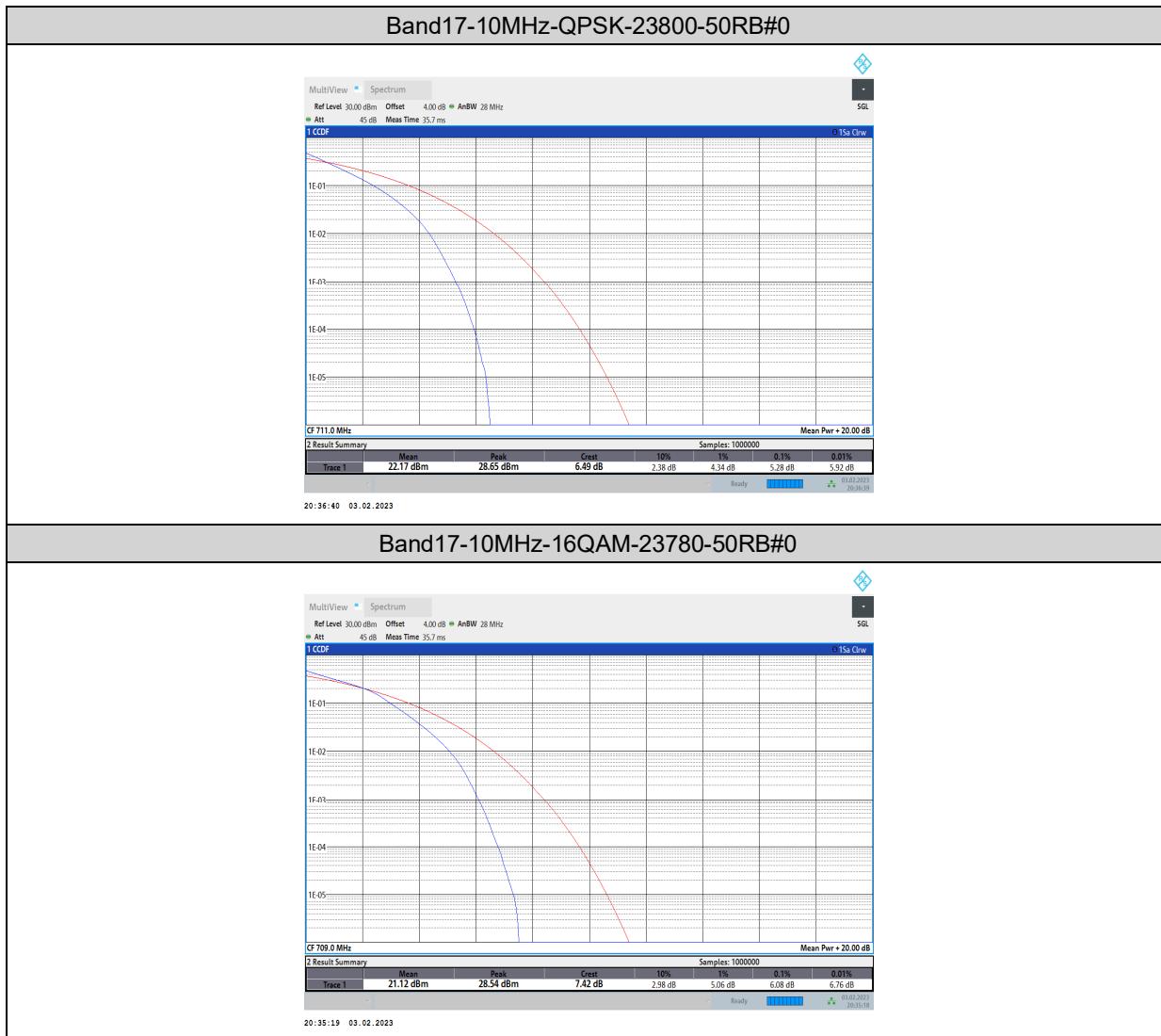
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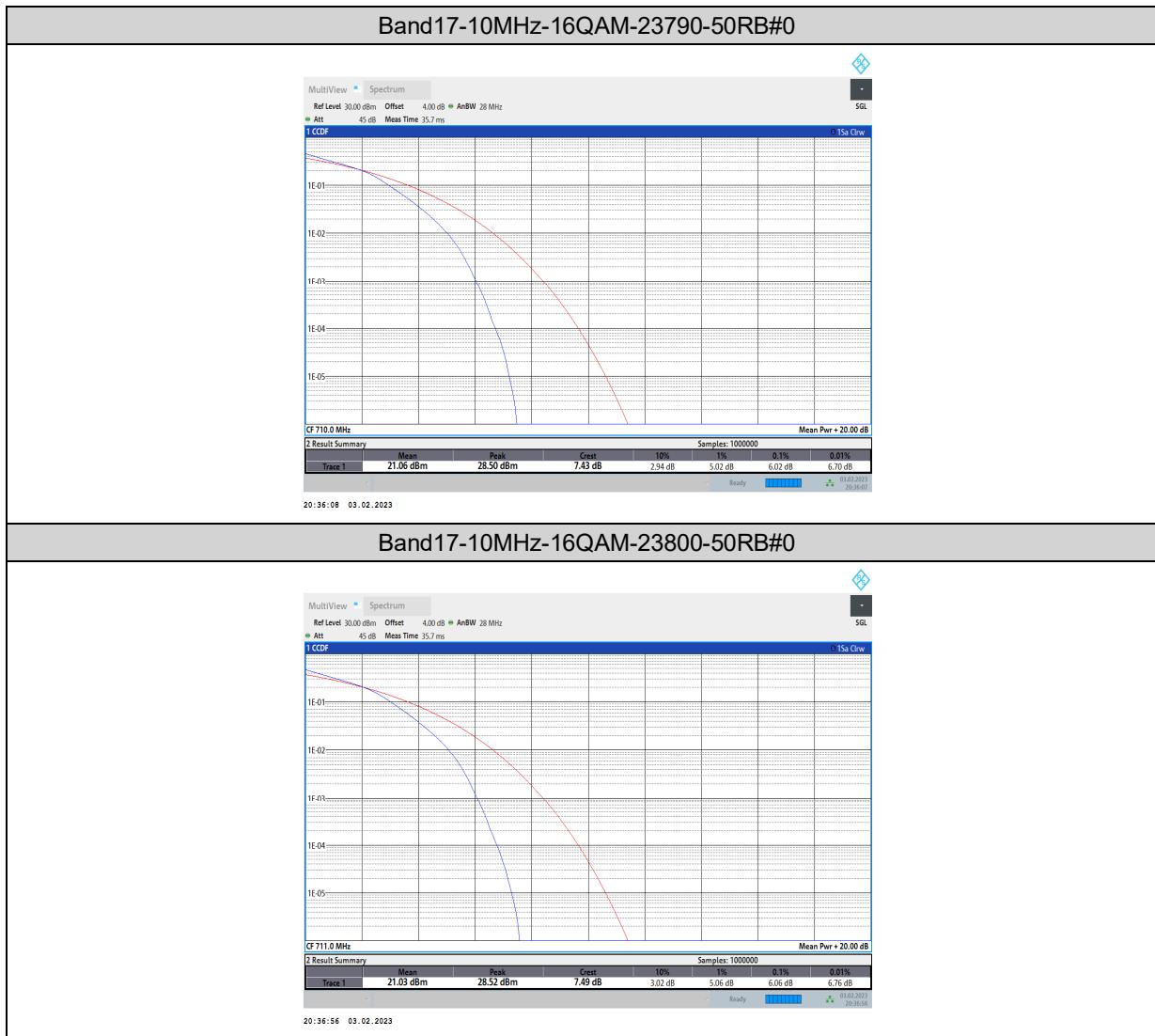


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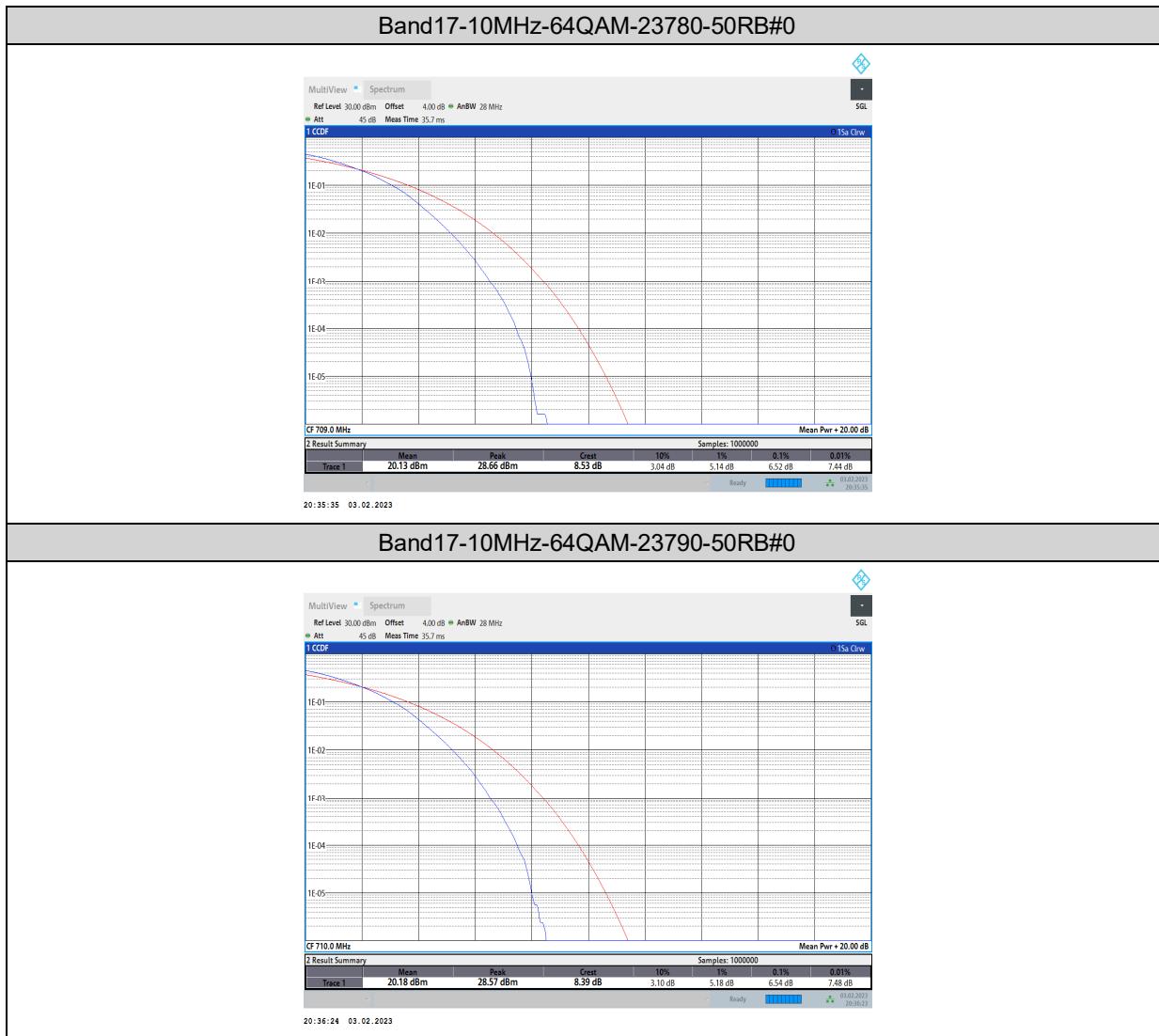
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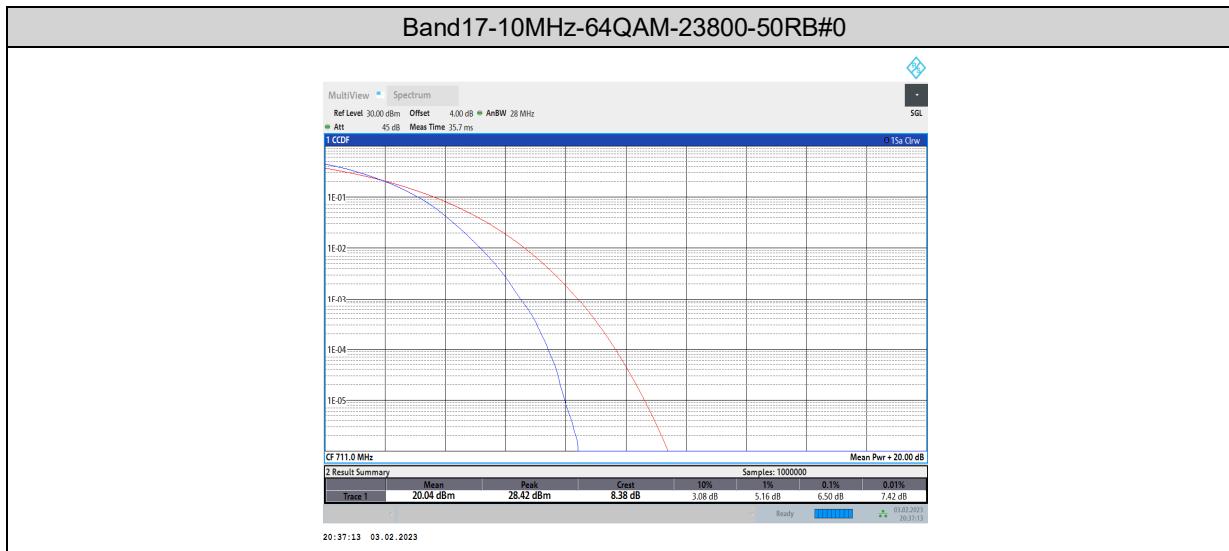
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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.467	4.87	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.469	4.86	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.467	4.89	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.466	4.89	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.467	4.88	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.464	4.92	PASS
Band17	5MHz	64QAM	23755	25RB#0	4.473	4.91	PASS
Band17	5MHz	64QAM	23790	25RB#0	4.477	4.91	PASS
Band17	5MHz	64QAM	23825	25RB#0	4.476	4.90	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.93	9.73	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.93	9.67	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.938	9.70	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.912	9.63	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.909	9.67	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.913	9.63	PASS
Band17	10MHz	64QAM	23780	50RB#0	8.929	9.70	PASS
Band17	10MHz	64QAM	23790	50RB#0	8.922	9.63	PASS
Band17	10MHz	64QAM	23800	50RB#0	8.928	9.63	PASS

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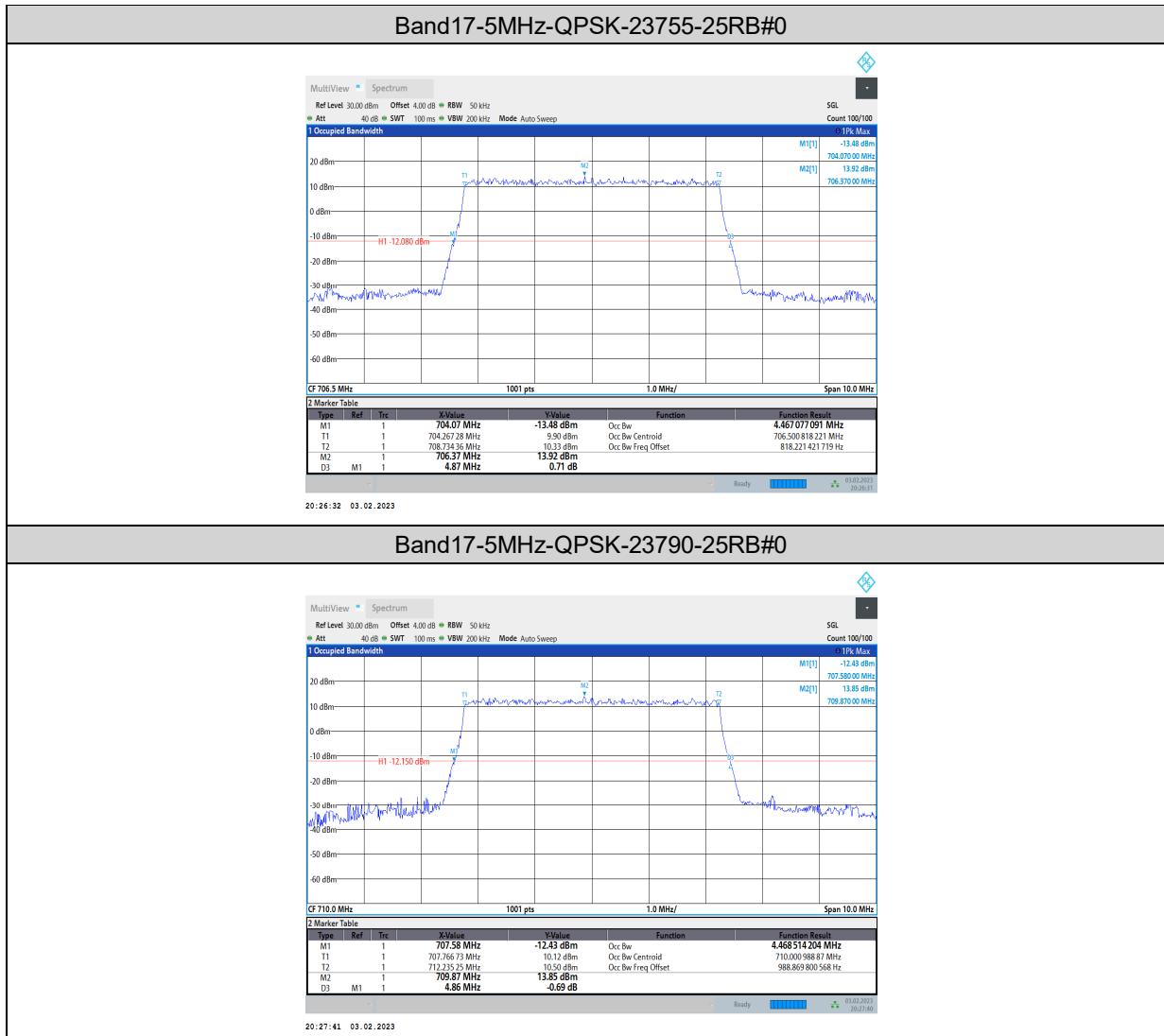


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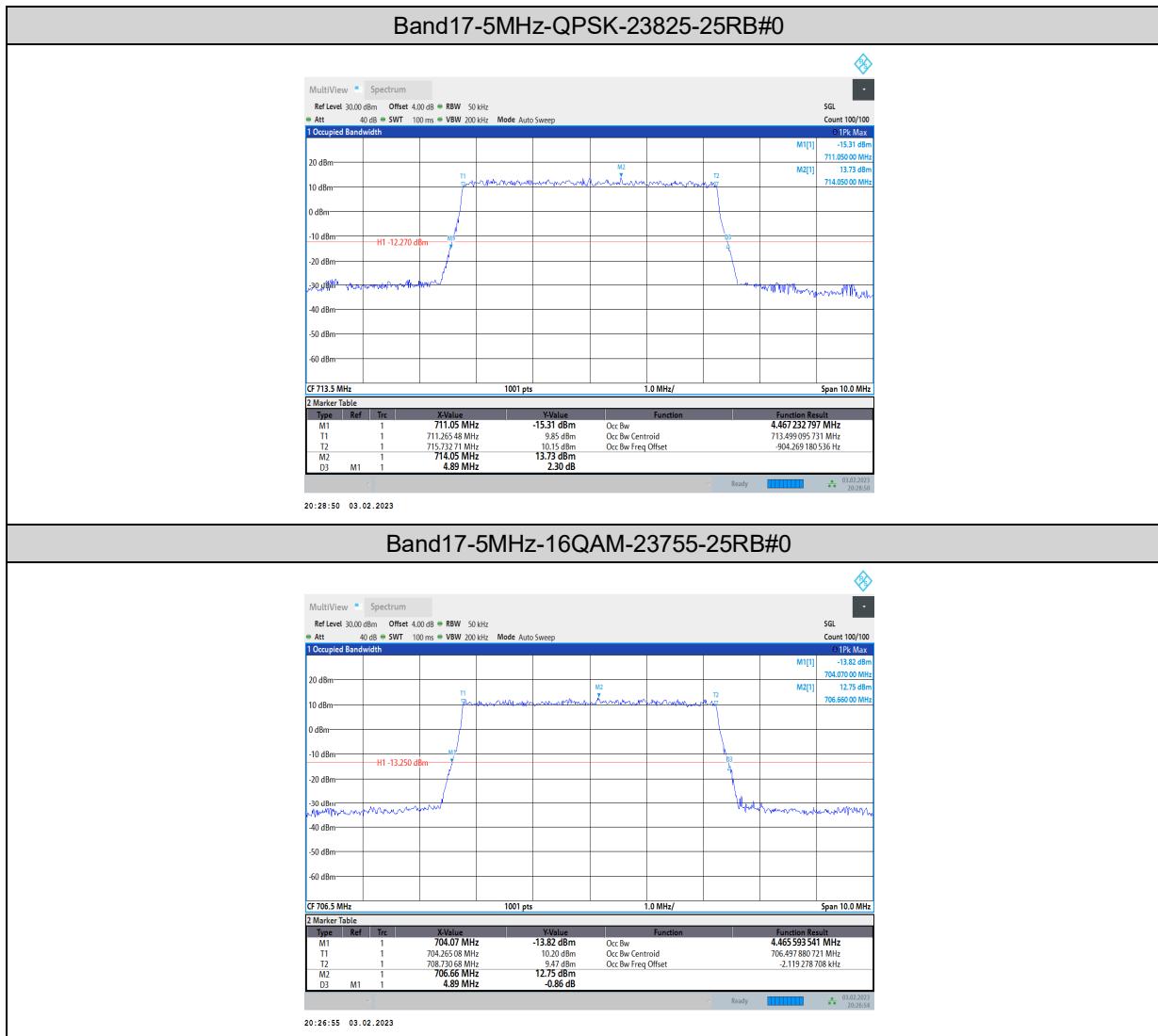
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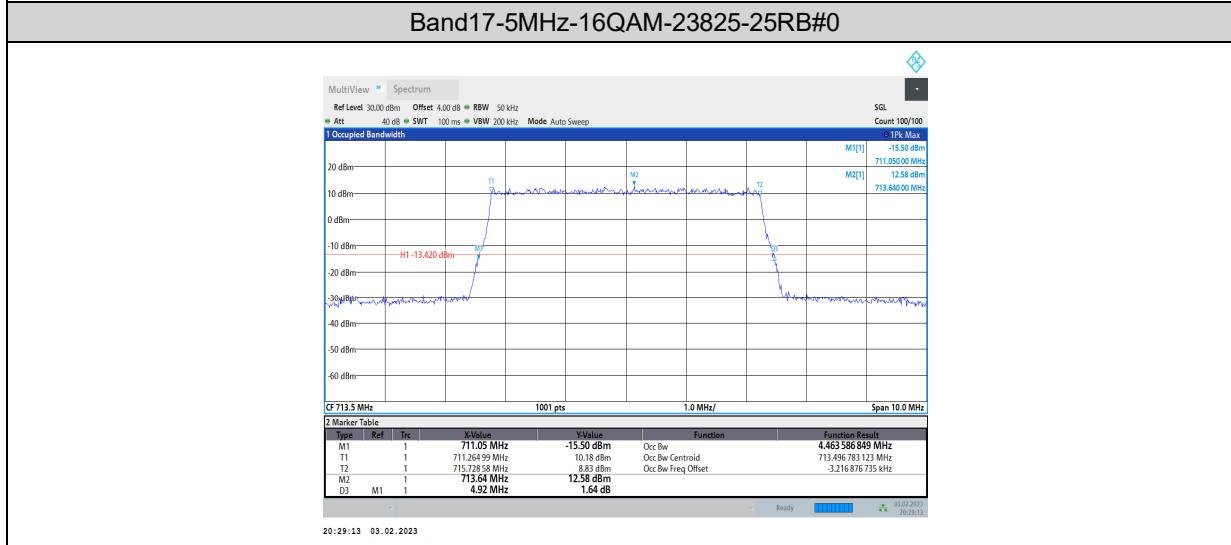
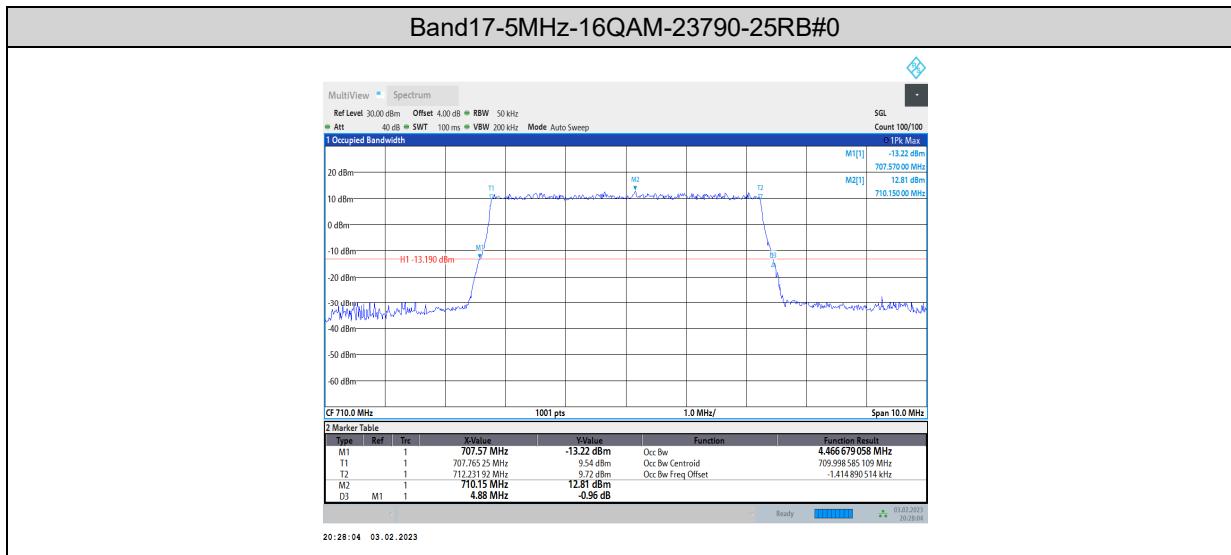


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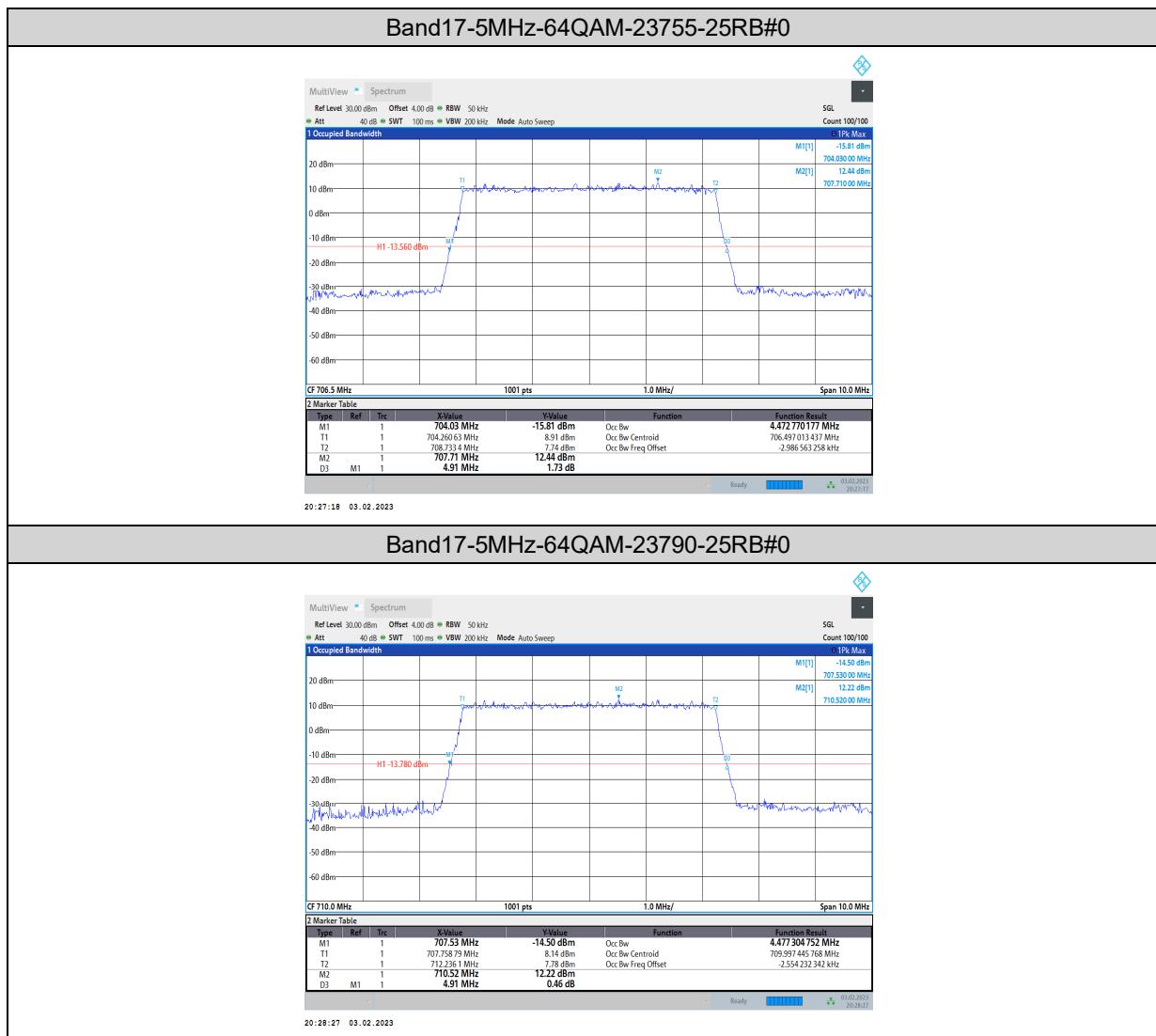


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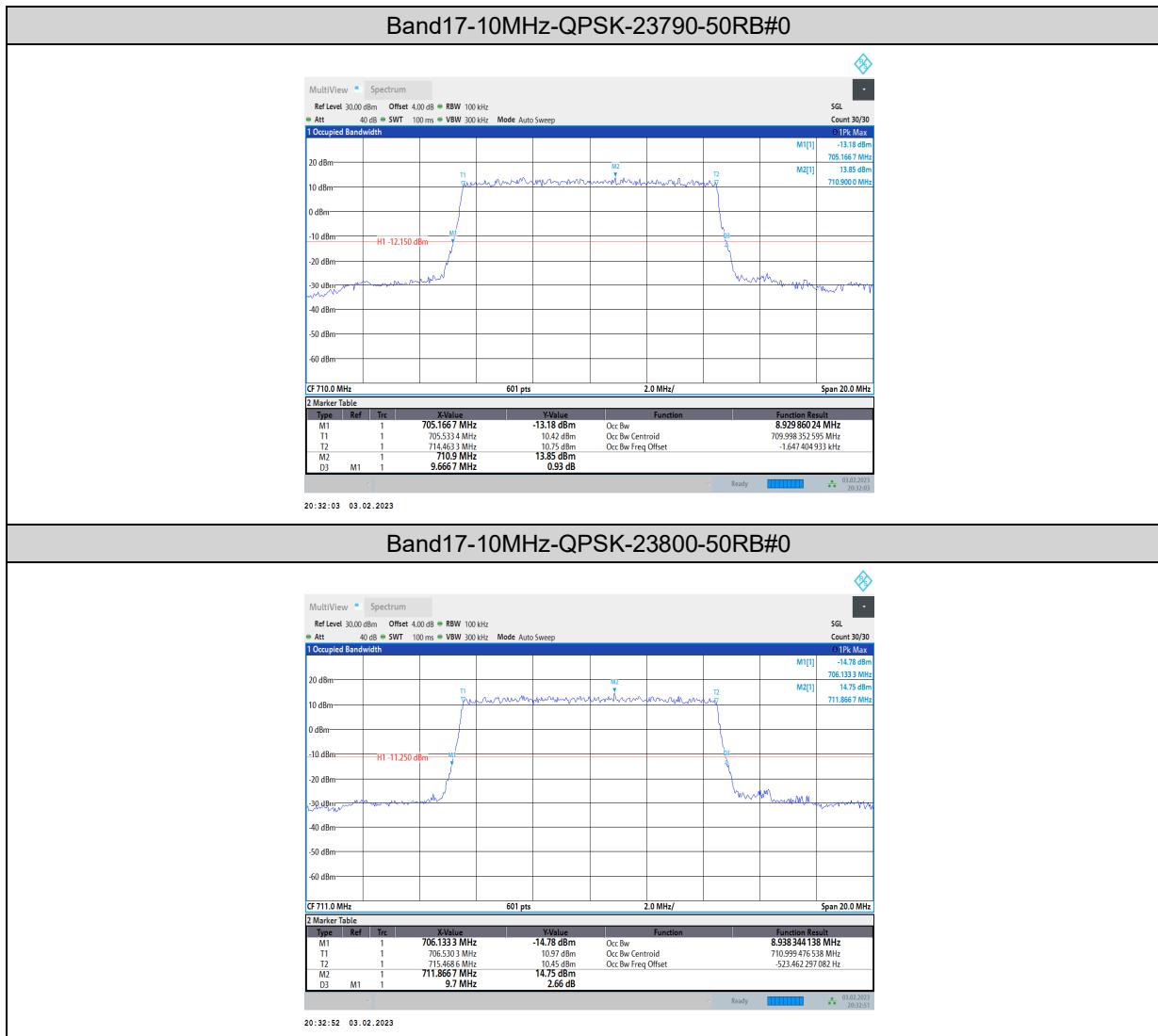
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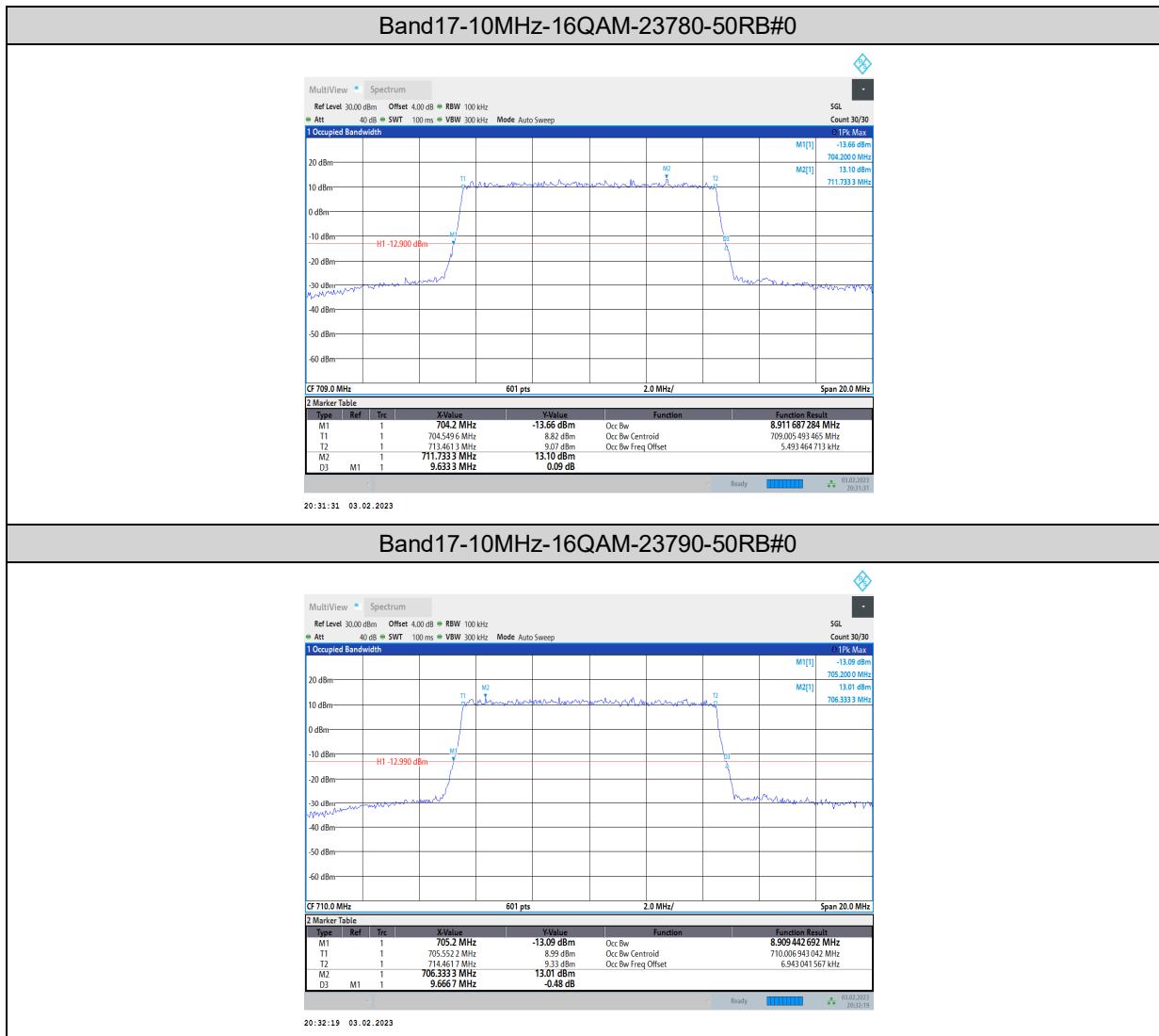


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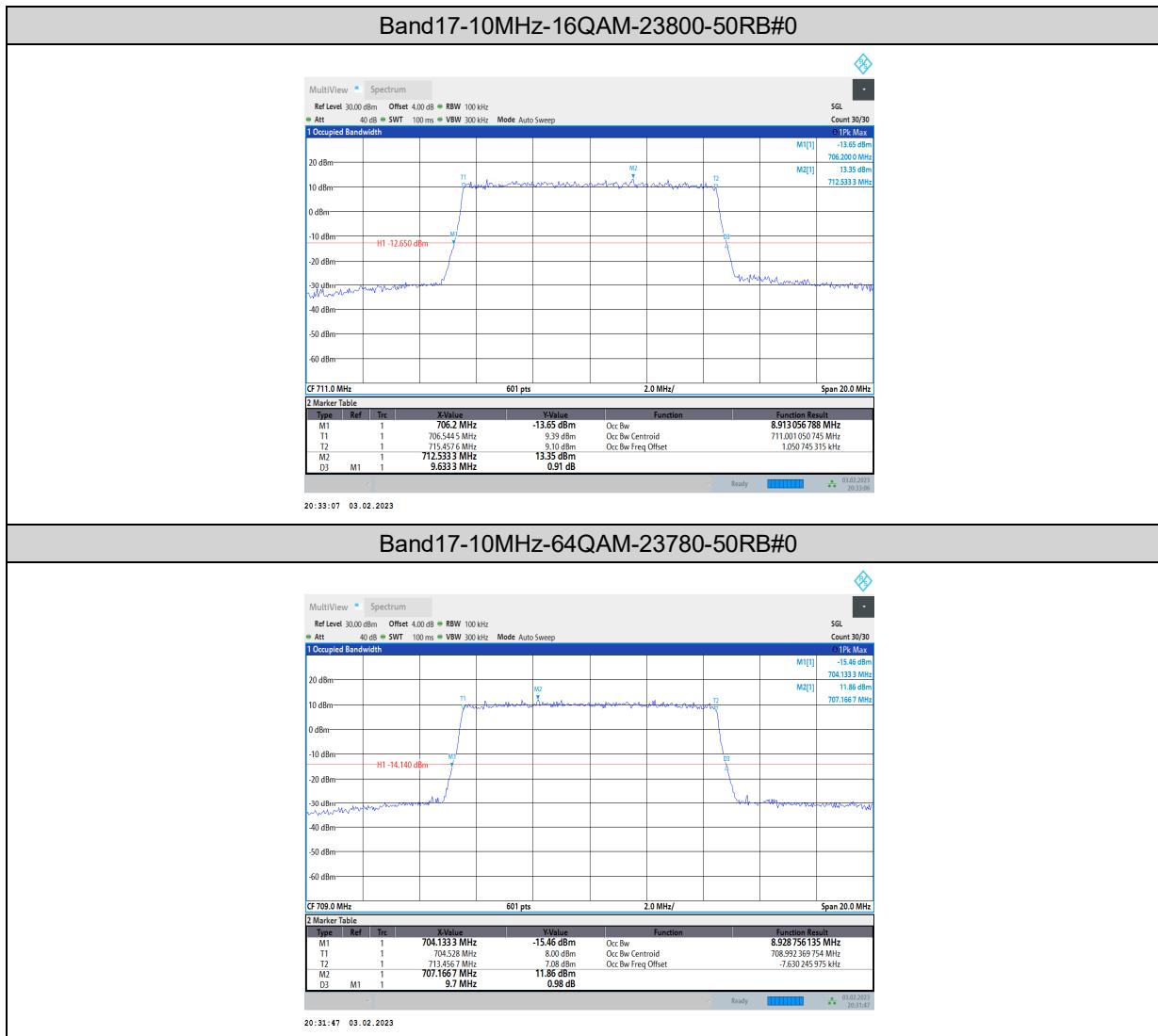
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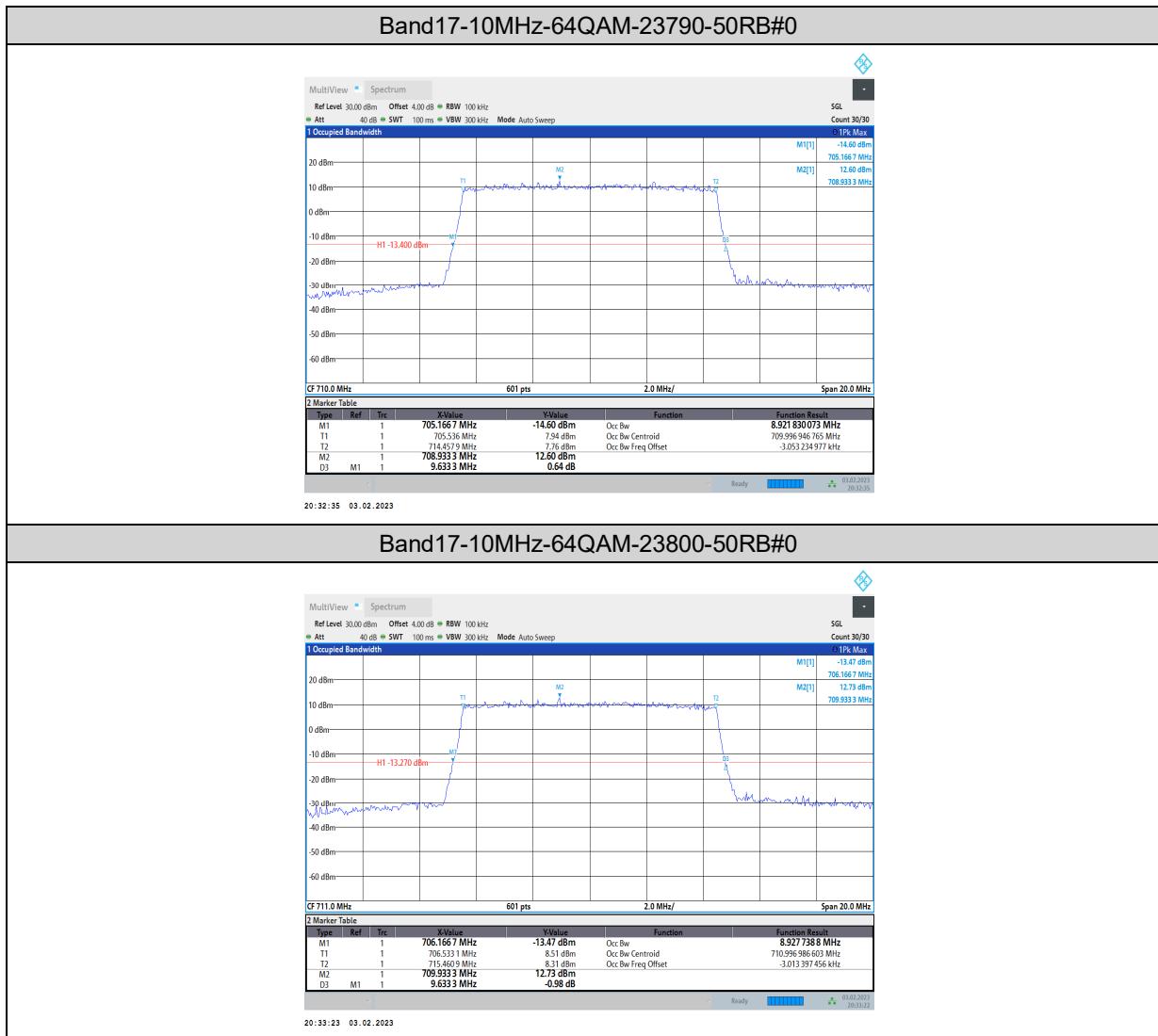


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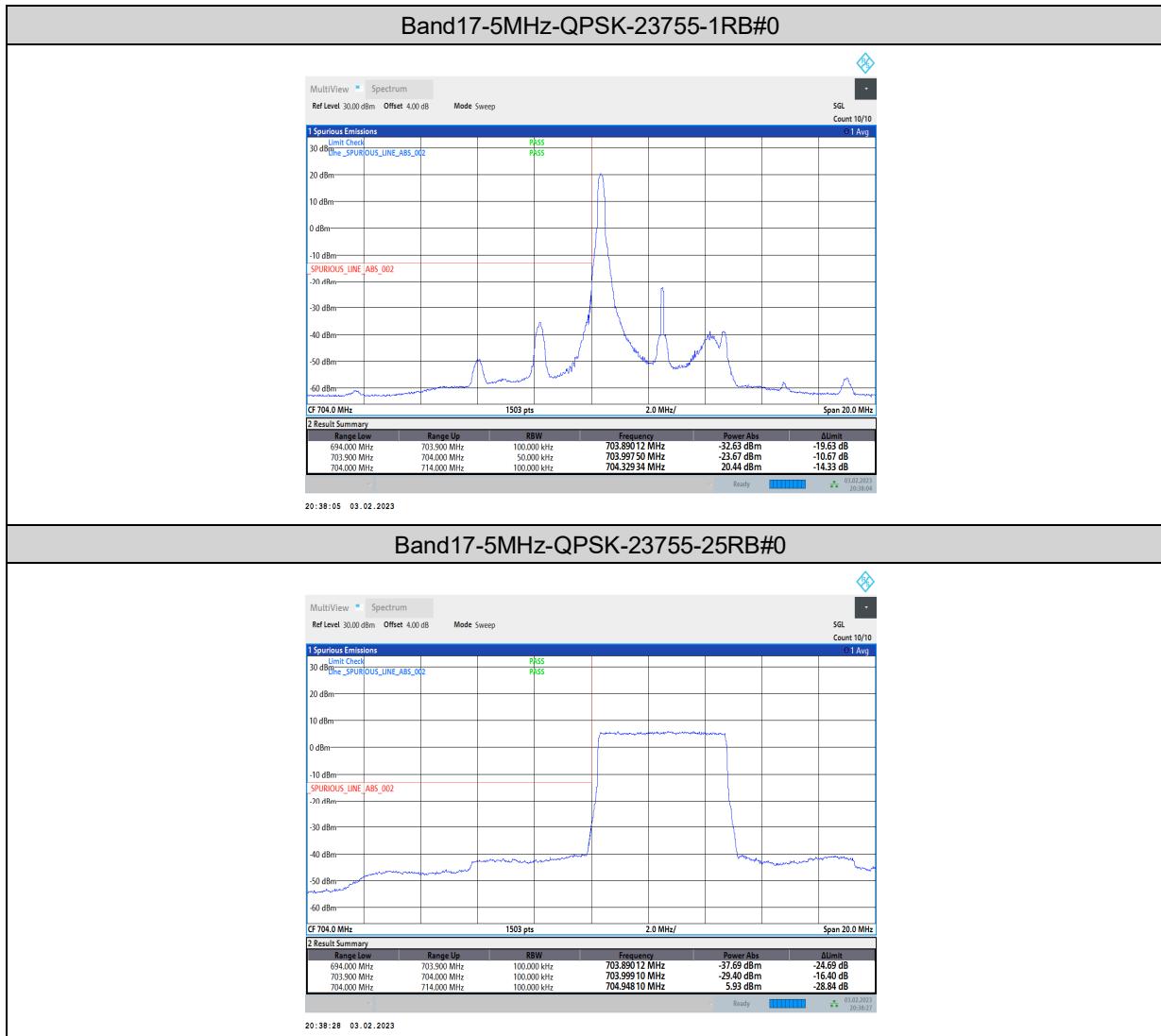
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Band Edge

Test Graphs



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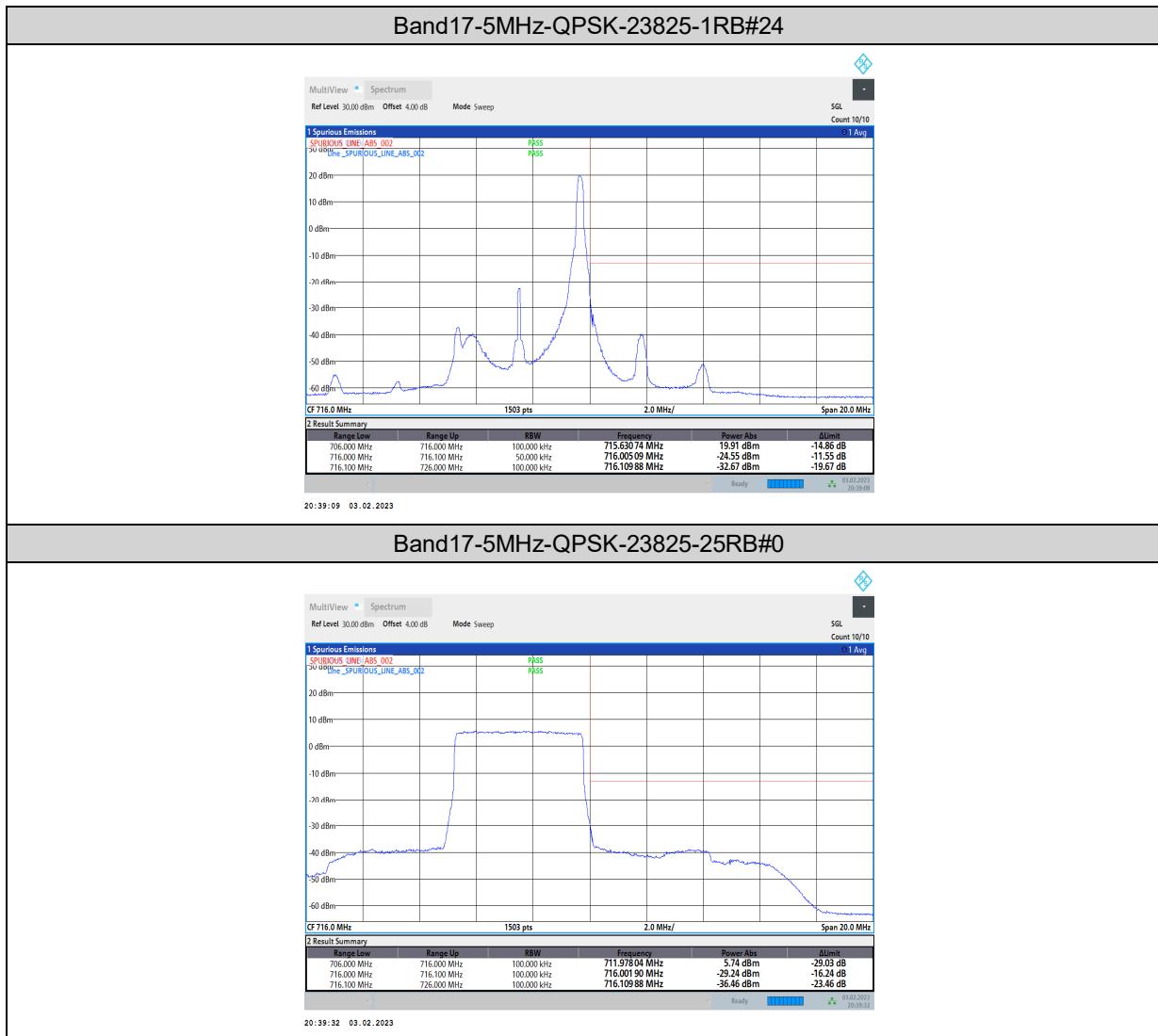
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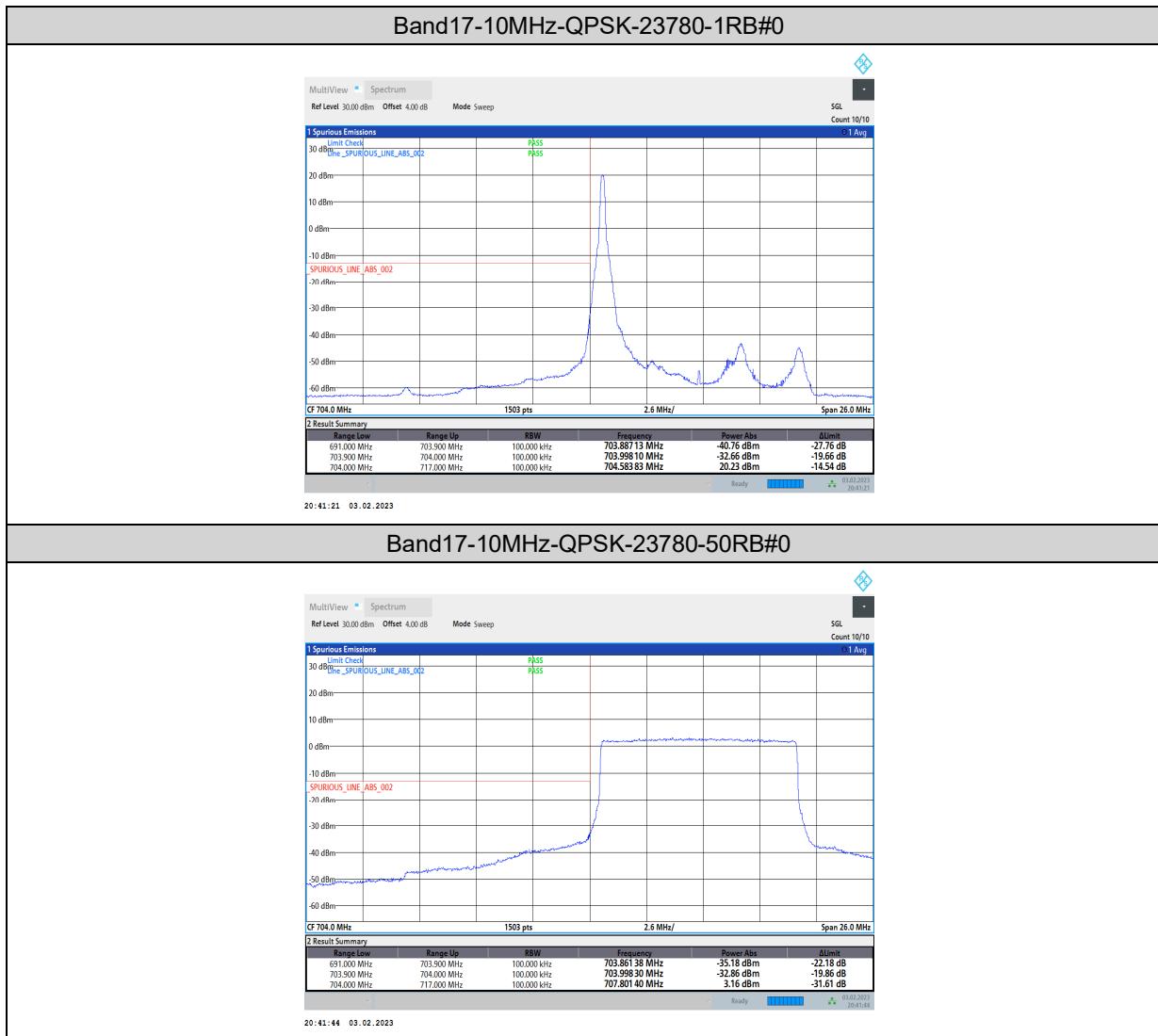
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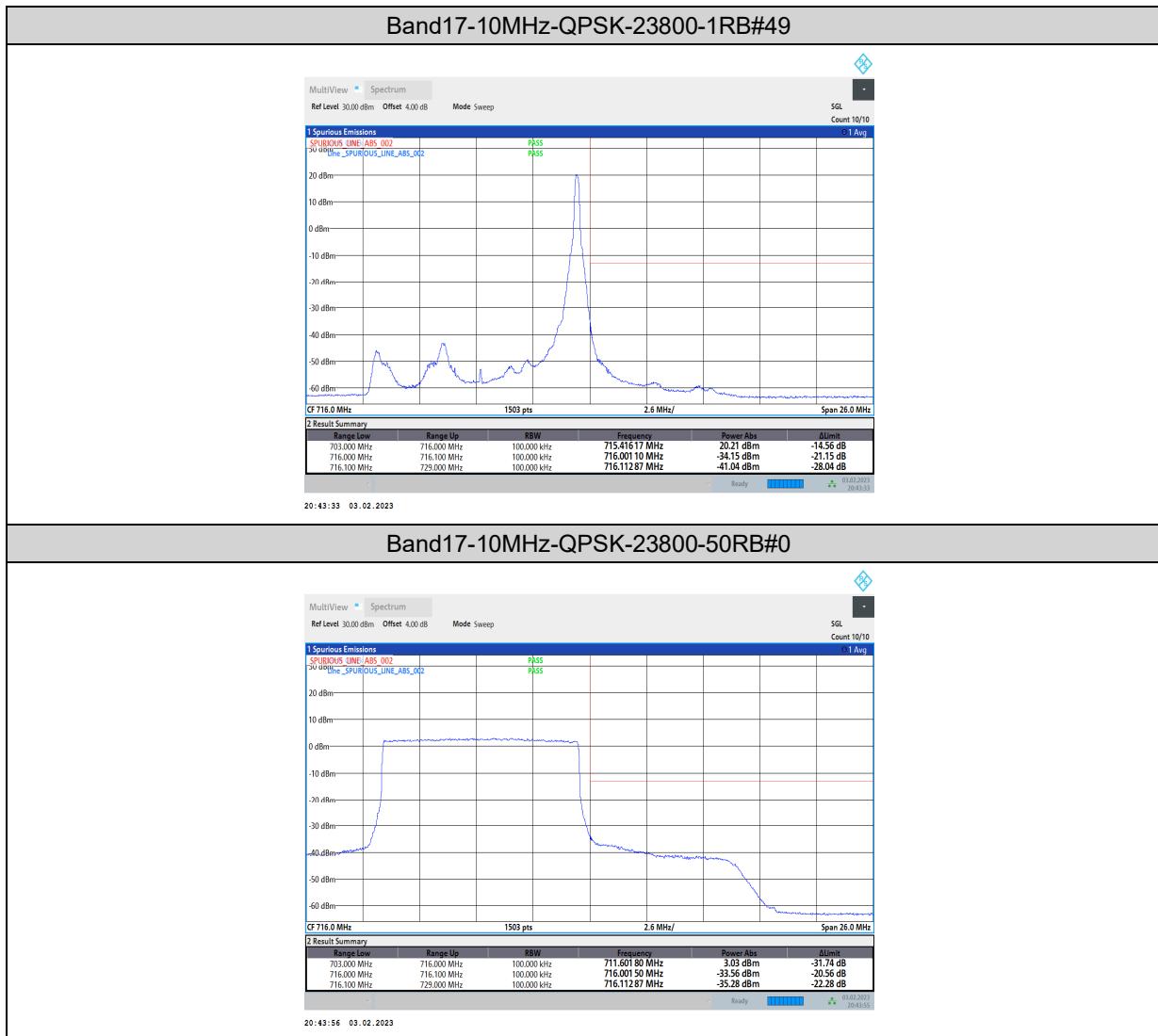
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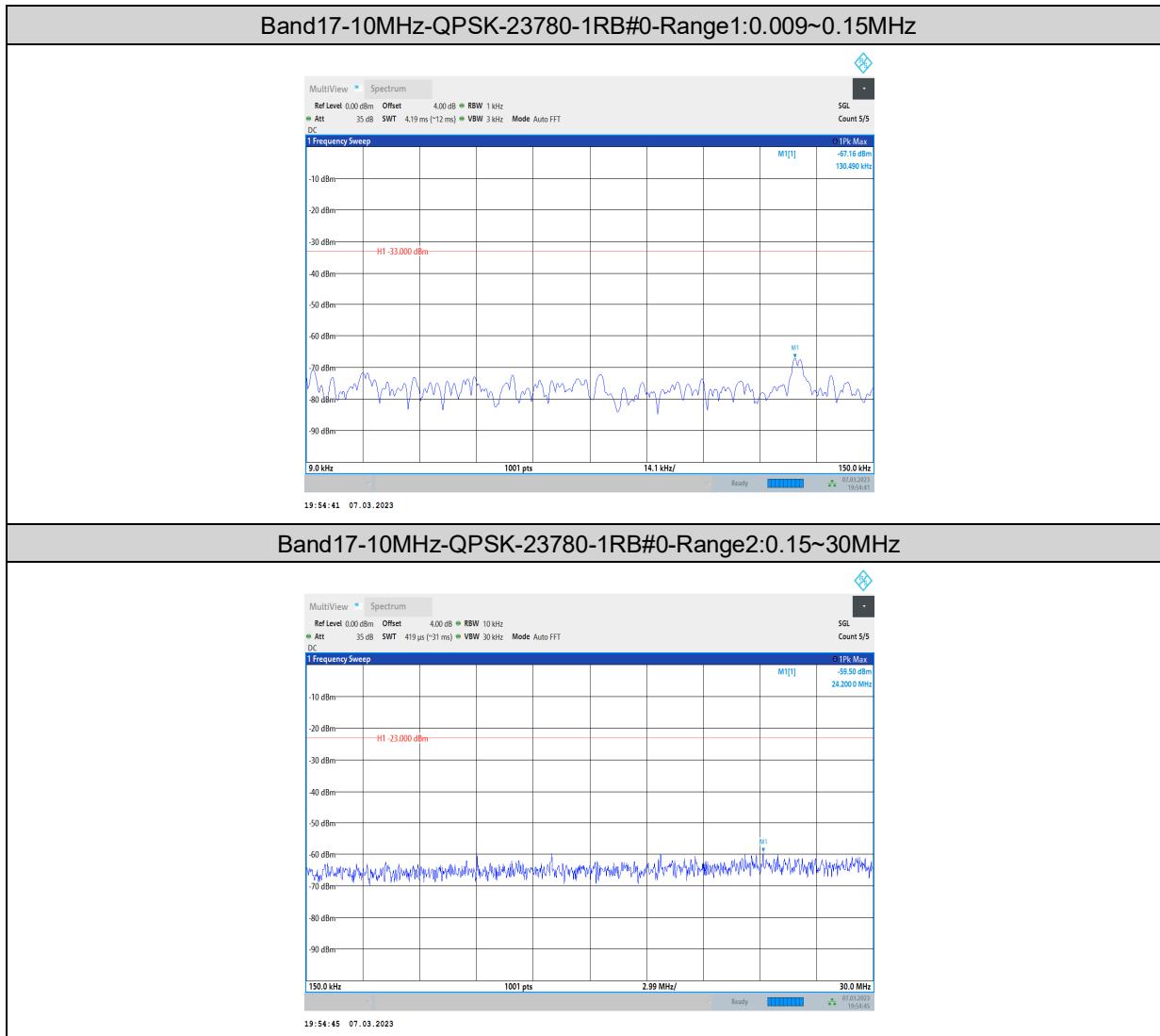
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Conducted Spurious Emission

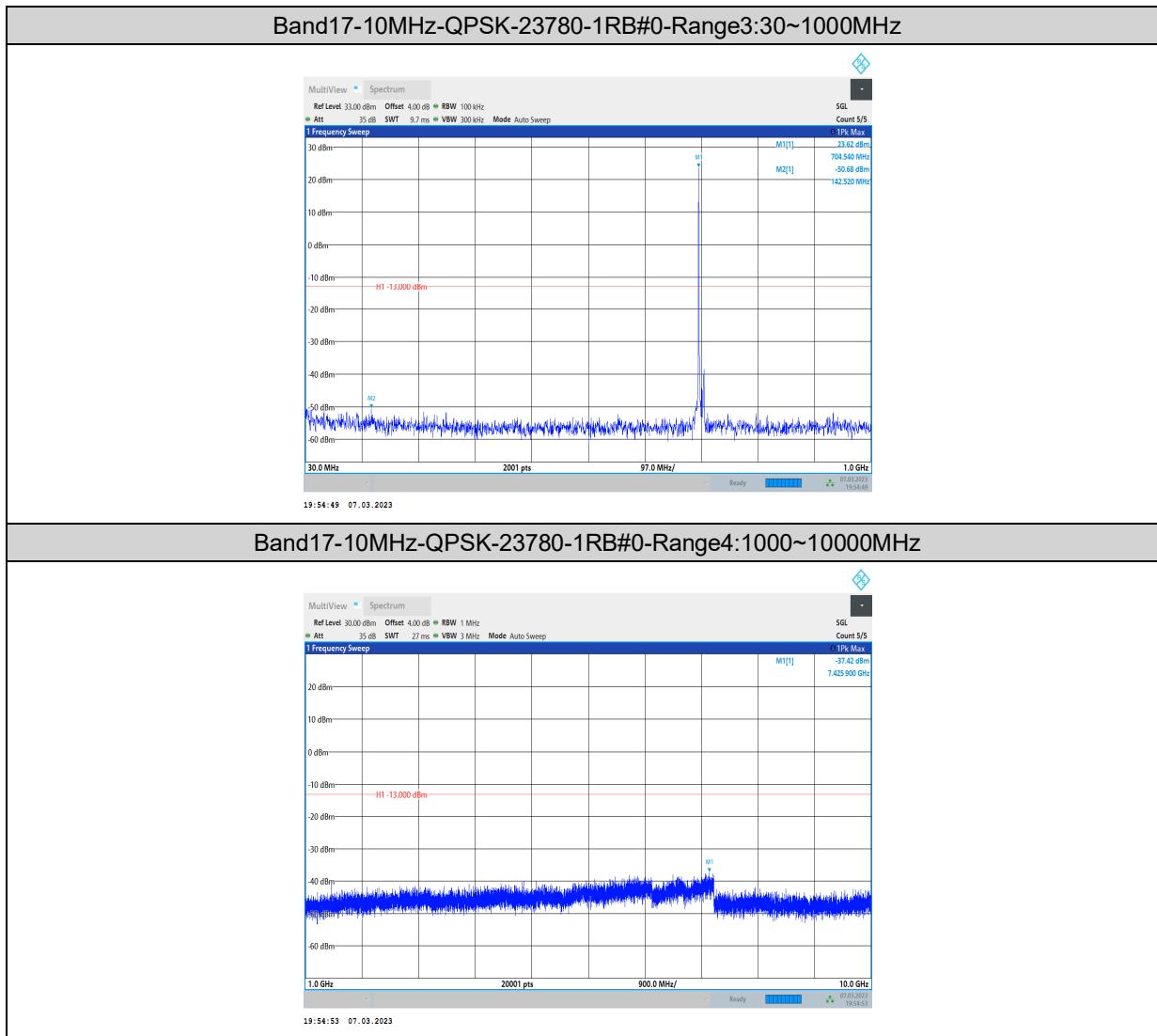
Test Graphs



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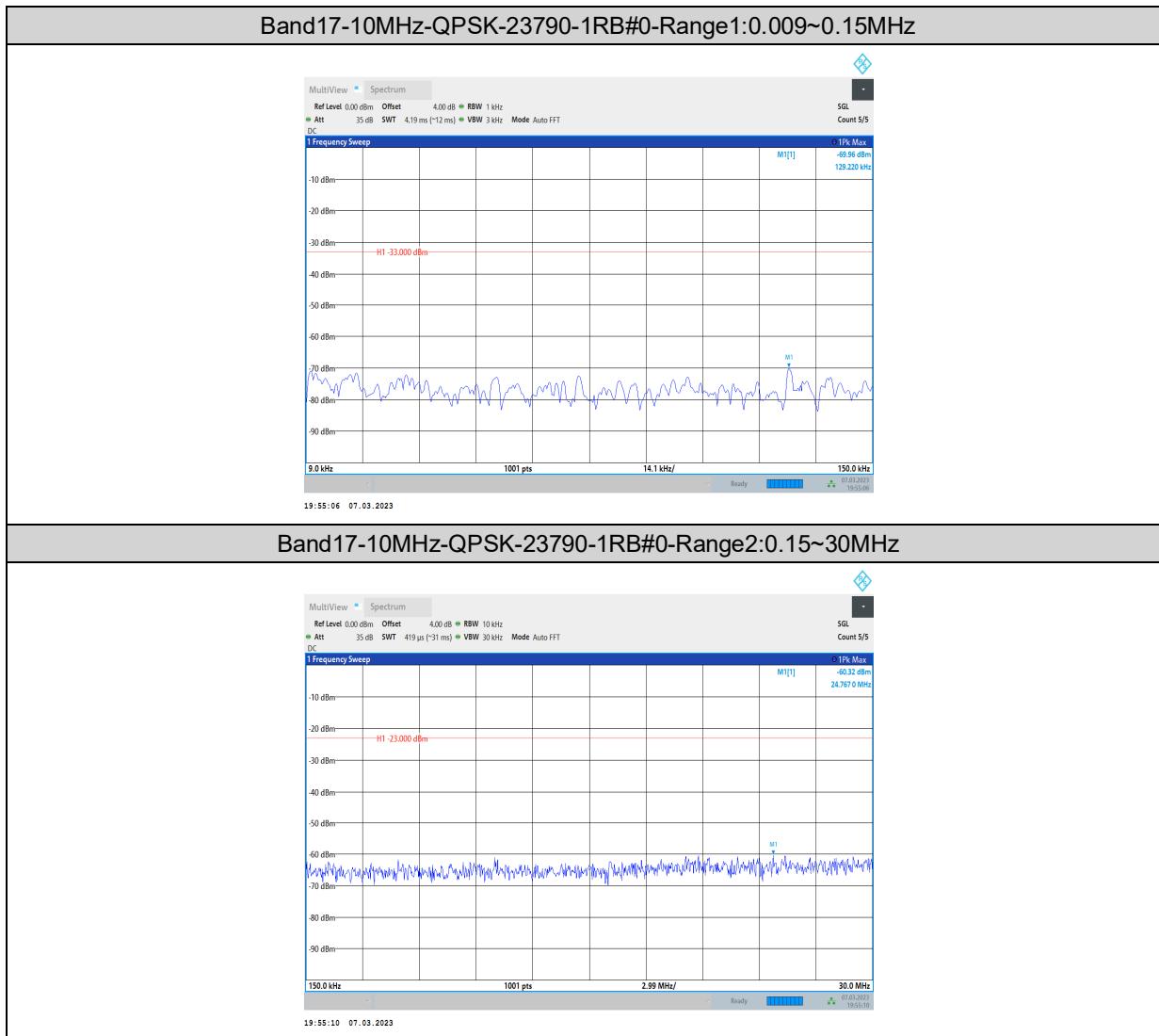
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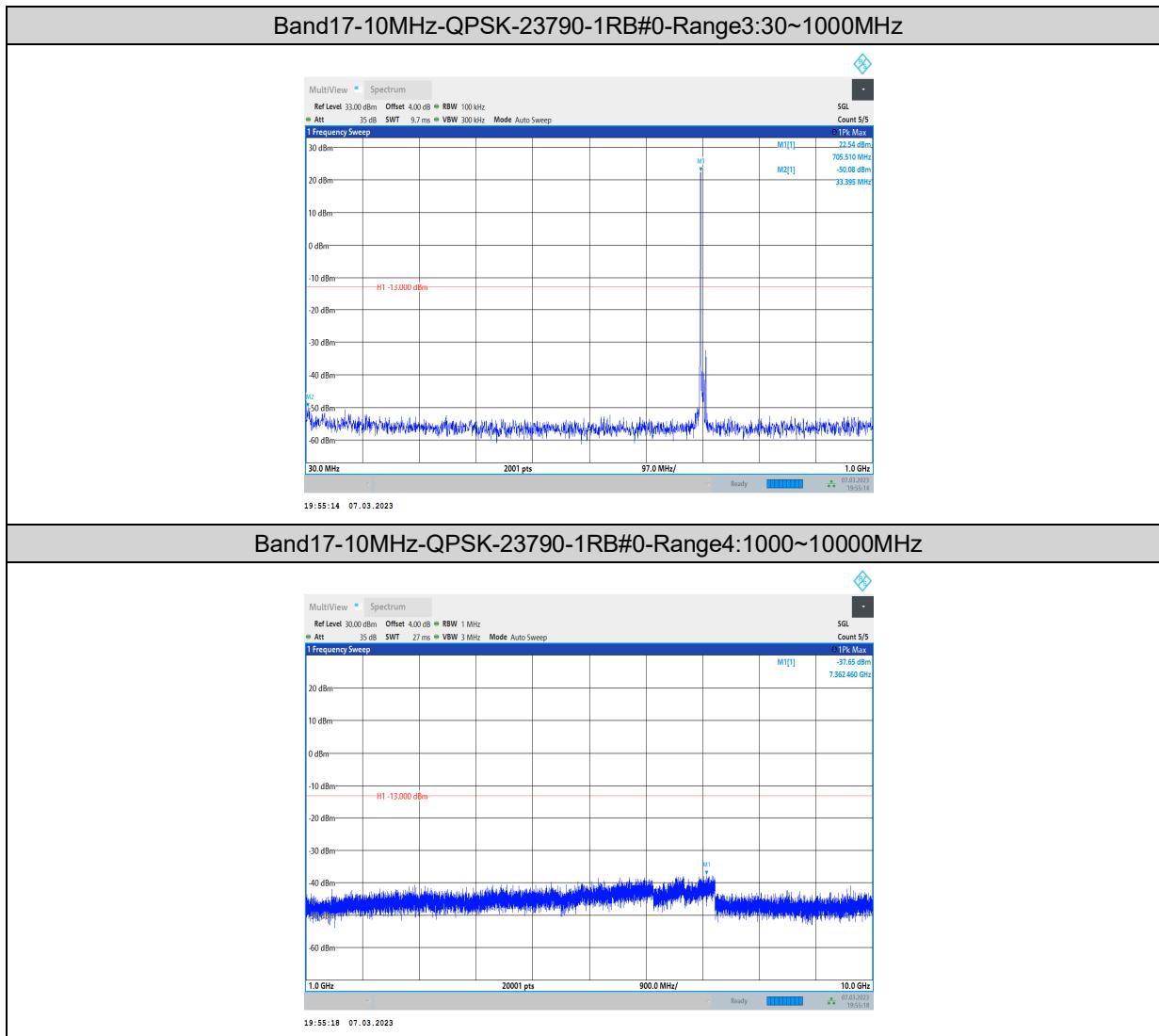
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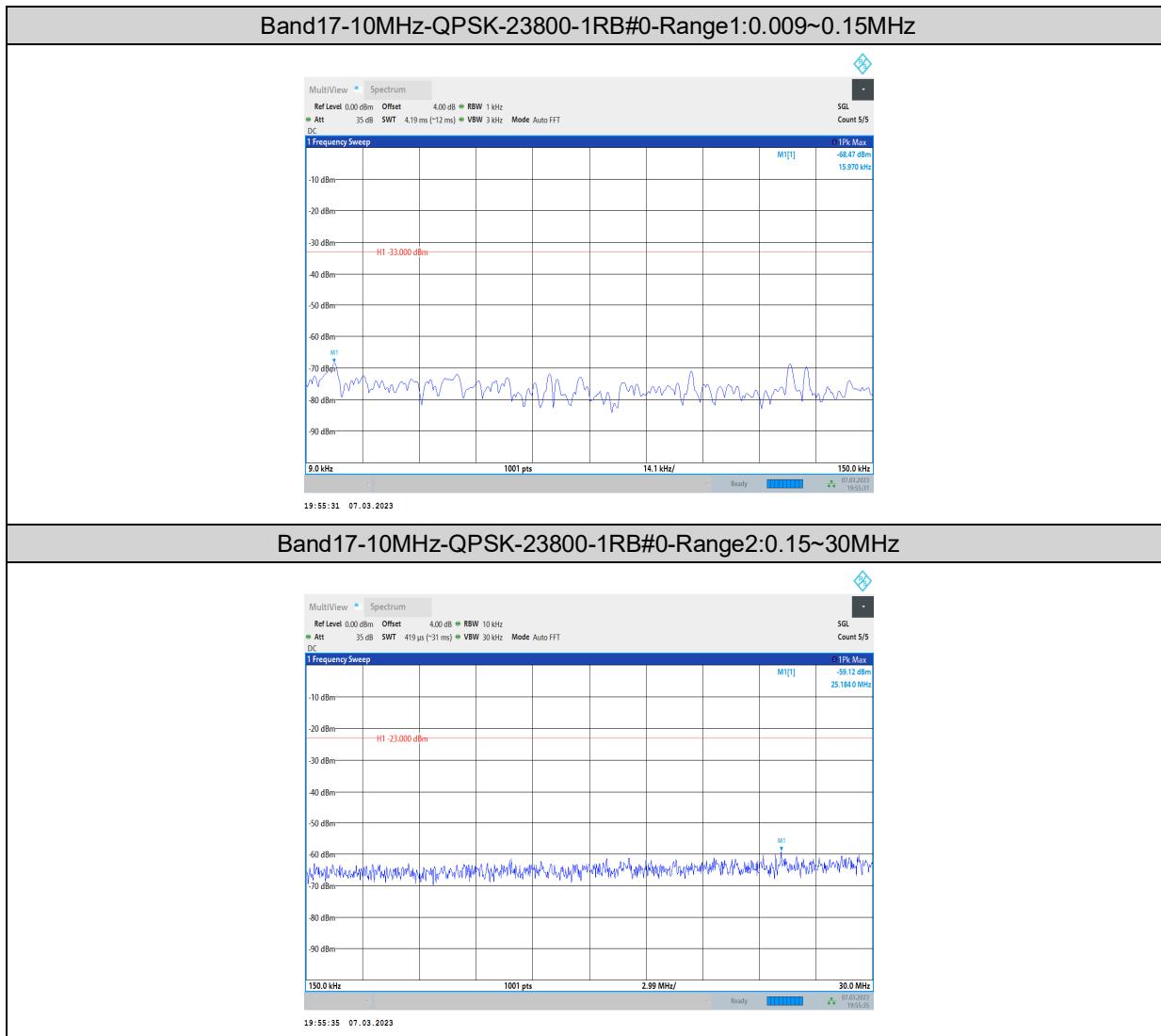


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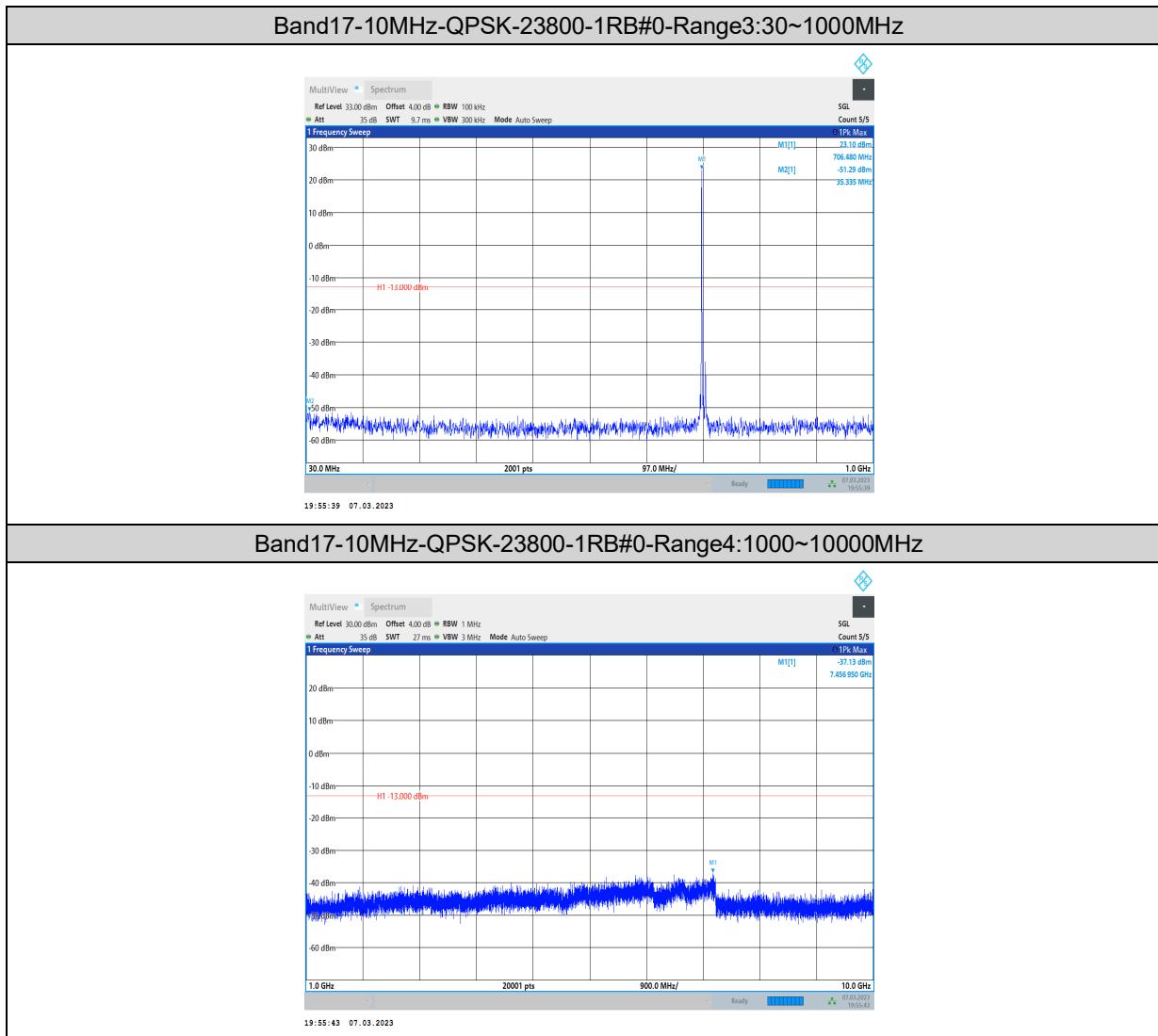
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Field Strength of Spurious Radiation

Test Band = LTE Band 17_ TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2129.7778	46.90	-47.84	27.16	-69.04	-13.00	56.04	196	46	Horizontal
2	1409.18	56.93	-48.71	25.41	-61.63	-13.00	48.63	284	94	Horizontal
3	2818.36	42.18	-46.70	28.98	-70.80	-13.00	57.80	168	46	Horizontal
4	3522.95	41.41	-46.02	29.46	-70.42	-13.00	57.42	223	357	Horizontal
5	4227.54	40.77	-45.11	30.96	-68.64	-13.00	55.64	206	252	Horizontal
6	4932.13	38.86	-45.10	32.44	-69.07	-13.00	56.07	147	94	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2129.7778	47.59	-47.84	27.16	-68.35	-13.00	55.35	161	351	Vertical
2	1409.18	60.96	-48.71	25.41	-57.60	-13.00	44.60	247	360	Vertical
3	2818.36	42.21	-46.70	28.98	-70.77	-13.00	57.77	138	341	Vertical
4	3522.95	41.48	-46.02	29.46	-70.35	-13.00	57.35	216	360	Vertical
5	4227.54	40.66	-45.11	30.96	-68.75	-13.00	55.75	196	264	Vertical
6	4932.13	39.71	-45.10	32.44	-68.22	-13.00	55.22	228	359	Vertical

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Test Band = LTE Band 17_ TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1411.1111	57.10	-48.70	25.41	-61.45	-13.00	48.45	192	345	Horizontal
2	3501.7778	61.40	-46.05	29.40	-50.50	-13.00	37.50	228	172	Horizontal
3	2116.77	42.20	-47.86	27.13	-73.78	-13.00	60.78	167	1	Horizontal
4	2822.36	41.79	-46.71	29.00	-71.18	-13.00	58.18	274	265	Horizontal
5	4233.54	40.93	-45.11	30.97	-68.47	-13.00	55.47	306	47	Horizontal
6	4939.13	39.18	-45.09	32.45	-68.72	-13.00	55.72	258	1	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1411.1111	59.92	-48.70	25.41	-58.63	-13.00	45.63	236	31	Vertical
2	2131.1111	48.04	-47.84	27.16	-67.89	-13.00	54.89	288	360	Vertical
3	3556	48.68	-45.99	29.53	-63.03	-13.00	50.03	247	156	Vertical
4	2822.36	42.38	-46.71	29.00	-70.59	-13.00	57.59	196	234	Vertical
5	4233.54	40.72	-45.11	30.97	-68.68	-13.00	55.68	135	94	Vertical
6	4939.13	39.58	-45.09	32.45	-68.32	-13.00	55.32	271	203	Vertical



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Test Band = LTE Band 17_ TM1

Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2131.1111	47.15	-47.84	27.16	-68.78	-13.00	55.78	214	47	Horizontal
2	3519.1111	57.54	-46.03	29.45	-54.30	-13.00	41.30	147	2	Horizontal
3	1413.18	56.77	-48.70	25.41	-61.77	-13.00	48.77	196	187	Horizontal
4	2826.36	41.52	-46.71	29.01	-71.44	-13.00	58.44	225	345	Horizontal
5	4239.54	40.64	-45.11	30.98	-68.75	-13.00	55.75	305	357	Horizontal
6	4946.13	39.84	-45.09	32.47	-68.03	-13.00	55.03	226	187	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3517.3333	56.97	-46.03	29.44	-54.88	-13.00	41.88	296	169	Vertical
2	4980.4444	42.77	-45.04	32.55	-64.97	-13.00	51.97	237	264	Vertical
3	1413.18	60.21	-48.70	25.41	-58.33	-13.00	45.33	241	360	Vertical
4	2119.77	43.66	-47.85	27.14	-72.31	-13.00	59.31	158	217	Vertical
5	2826.36	42.33	-46.71	29.01	-70.63	-13.00	57.63	192	62	Vertical
6	4239.54	41.07	-45.11	30.98	-68.32	-13.00	55.32	285	217	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

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	-2.00	-0.002817	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	-1.30	-0.001831	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	3.20	0.004507	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	1.20	0.001690	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	-5.20	-0.007324	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	-6.20	-0.008732	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	-2.70	-0.003803	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	3.90	0.005493	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	1.30	0.001831	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	1.70	0.002394	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	1.20	0.001690	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	0.70	0.000986	PASS

---End of Attachment---



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