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Appendix B.8

LTE Band 17



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Effective (Isotropic) Radiated Power Output Data

Test Result

ANT1

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	23.68	19.53	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.59	19.44	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.7	19.55	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.74	18.59	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.74	19.59	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.72	19.57	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.7	19.55	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.72	18.57	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.67	19.52	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.69	19.54	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.77	19.62	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.69	18.54	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.77	18.62	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.8	18.65	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	22.73	18.58	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.72	17.57	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.75	18.6	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.77	18.62	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	22.76	18.61	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.72	17.57	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	22.75	18.6	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	22.78	18.63	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.74	18.59	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.76	17.61	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	21.72	17.57	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#12	21.76	17.61	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	21.74	17.59	34.77	PASS

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Band17	5MHz	64QAM	23755	25RB#0	20.67	16.52	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	21.74	17.59	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#12	21.75	17.6	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	21.8	17.65	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	20.72	16.57	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	21.79	17.64	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	21.8	17.65	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	21.79	17.64	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	20.72	16.57	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#0	18.76	14.61	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#12	18.72	14.57	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#24	18.71	14.56	34.77	PASS
Band17	5MHz	256QAM	23755	25RB#0	18.65	14.5	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#0	18.72	14.57	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#12	18.77	14.62	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#24	18.78	14.63	34.77	PASS
Band17	5MHz	256QAM	23790	25RB#0	18.63	14.48	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#0	18.76	14.61	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#12	18.65	14.5	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#24	18.8	14.65	34.77	PASS
Band17	5MHz	256QAM	23825	25RB#0	18.65	14.5	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.7	19.55	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.77	19.62	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.72	19.57	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.78	18.63	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.82	19.67	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.74	19.59	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.74	19.59	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.79	18.64	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.72	19.57	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.78	19.63	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.75	19.6	34.77	PASS



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Band17	10MHz	QPSK	23800	50RB#0	22.77	18.62	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	22.78	18.63	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.77	18.62	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.73	18.58	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.75	17.6	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.73	18.58	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.76	18.61	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	22.69	18.54	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.73	17.58	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	22.73	18.58	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	22.71	18.56	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	22.74	18.59	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.73	17.58	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	21.78	17.63	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	21.71	17.56	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	21.77	17.62	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	20.71	16.56	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#0	21.74	17.59	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	21.63	17.48	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	21.76	17.61	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	20.64	16.49	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	21.77	17.62	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	21.78	17.63	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	21.74	17.59	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	20.69	16.54	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#0	18.75	14.6	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#24	18.62	14.47	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#49	18.71	14.56	34.77	PASS
Band17	10MHz	256QAM	23780	50RB#0	18.61	14.46	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#0	18.73	14.58	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#24	18.77	14.62	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#49	18.71	14.56	34.77	PASS

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Band17	10MHz	256QAM	23790	50RB#0	18.65	14.5	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#0	18.79	14.64	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#24	18.77	14.62	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#49	18.75	14.6	34.77	PASS
Band17	10MHz	256QAM	23800	50RB#0	18.7	14.55	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	4.82	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.20	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.18	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	5.46	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	5.52	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	5.54	13	PASS
Band17	10MHz	64QAM	23780	50RB#0	6.00	13	PASS
Band17	10MHz	64QAM	23790	50RB#0	6.00	13	PASS
Band17	10MHz	64QAM	23800	50RB#0	5.94	13	PASS
Band17	10MHz	256QAM	23780	50RB#0	6.46	13	PASS
Band17	10MHz	256QAM	23790	50RB#0	6.38	13	PASS
Band17	10MHz	256QAM	23800	50RB#0	6.44	13	PASS

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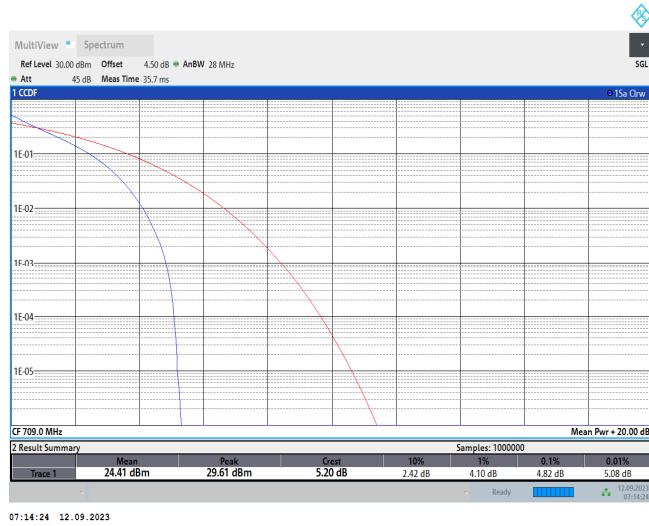
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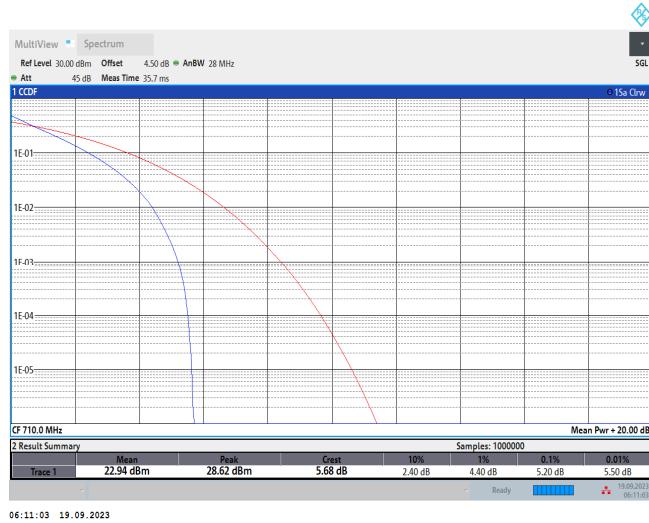
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Test Graphs

Band17-10MHz-QPSK-23780-50RB#0



Band17-10MHz-QPSK-23790-50RB#0



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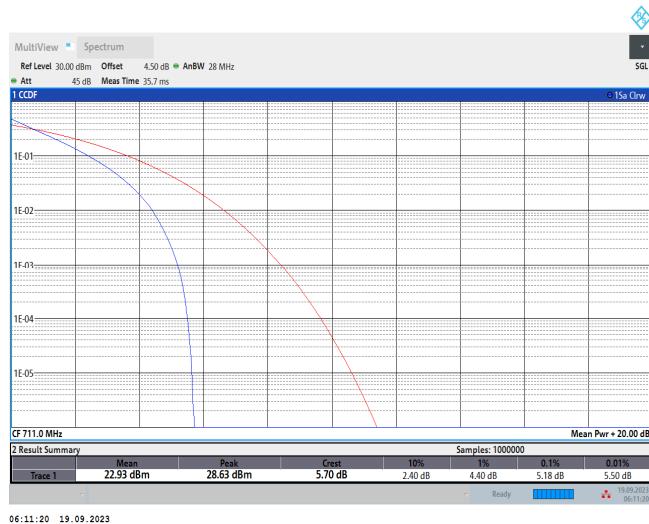


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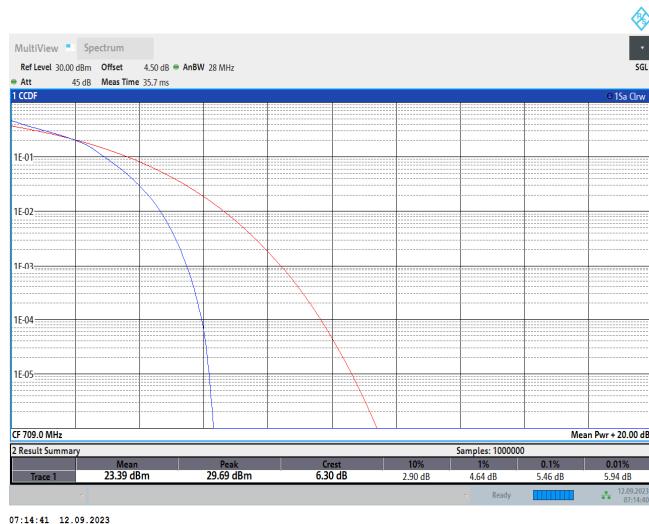
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Band17-10MHz-QPSK-23800-50RB#0



Band17-10MHz-16QAM-23780-50RB#0



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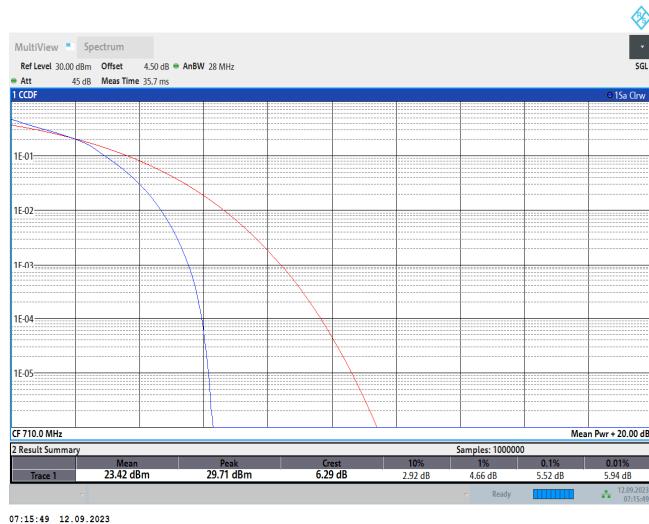


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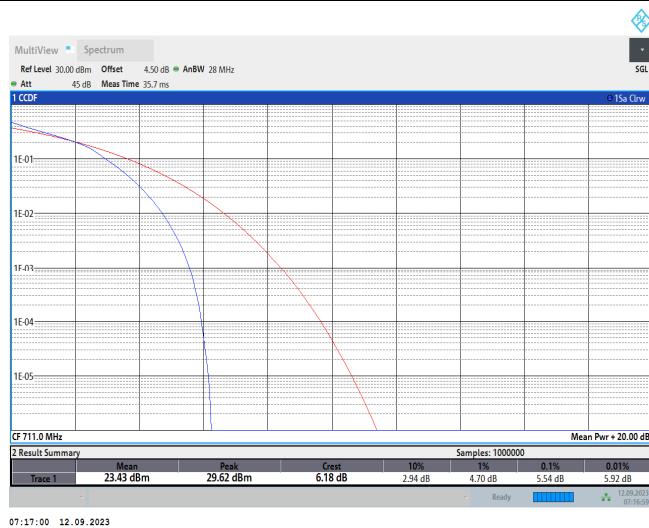
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Band17-10MHz-16QAM-23800-50RB#0



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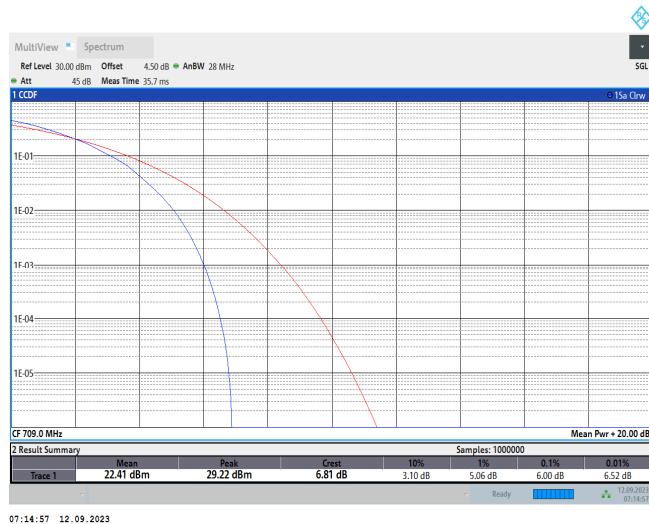


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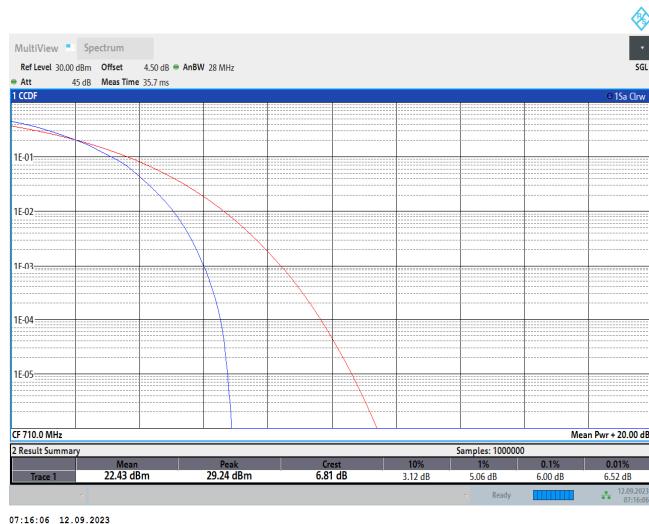
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Band17-10MHz-64QAM-23780-50RB#0



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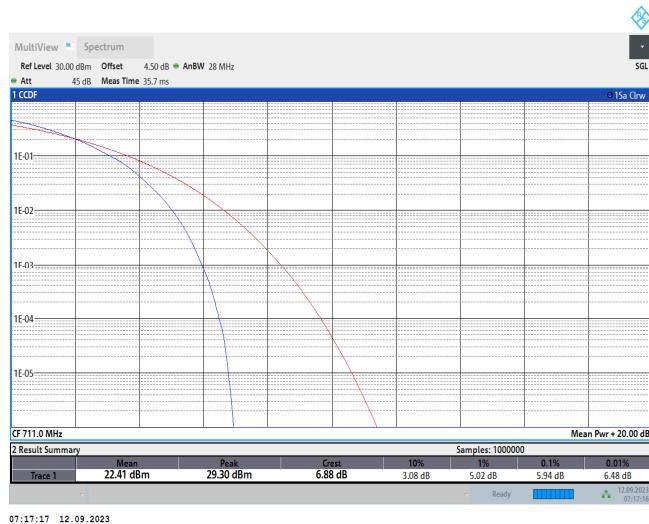


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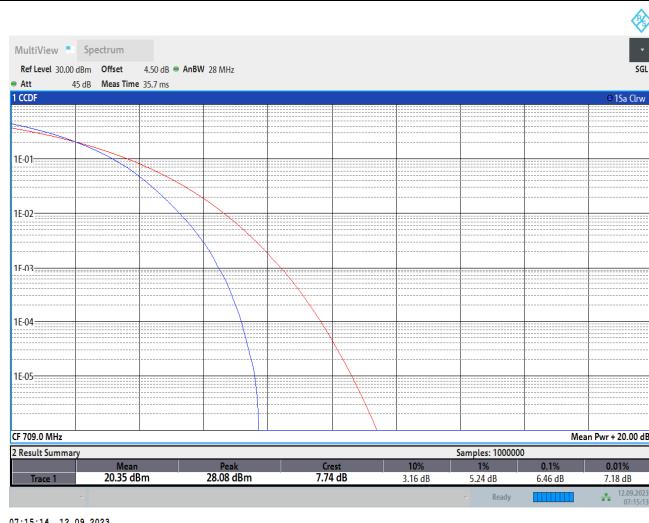
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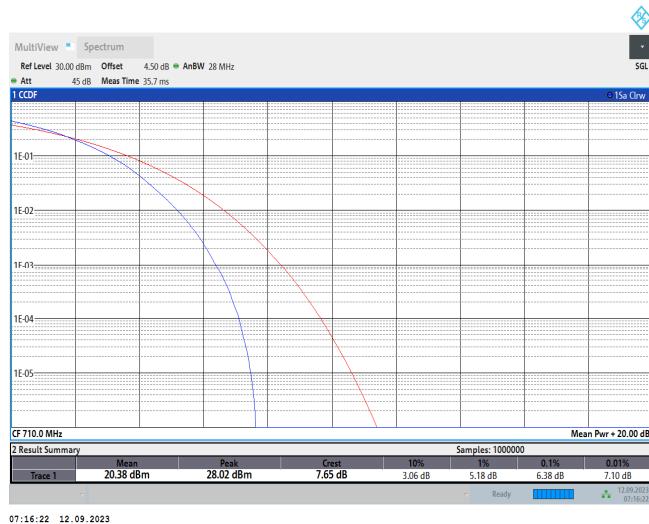


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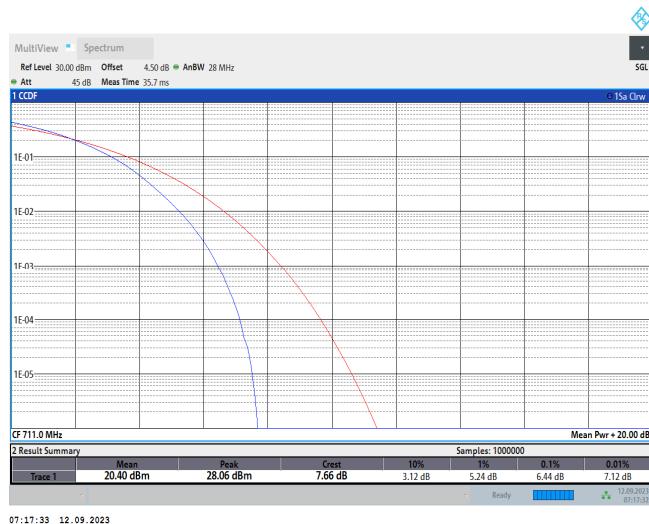
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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23790	25RB#0	4.466	4.87	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.463	4.85	PASS
Band17	5MHz	64QAM	23790	25RB#0	4.473	4.86	PASS
Band17	5MHz	256QAM	23790	25RB#0	4.466	4.85	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.935	9.67	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.926	9.70	PASS
Band17	10MHz	64QAM	23790	50RB#0	8.95	9.80	PASS
Band17	10MHz	256QAM	23790	50RB#0	8.934	9.67	PASS



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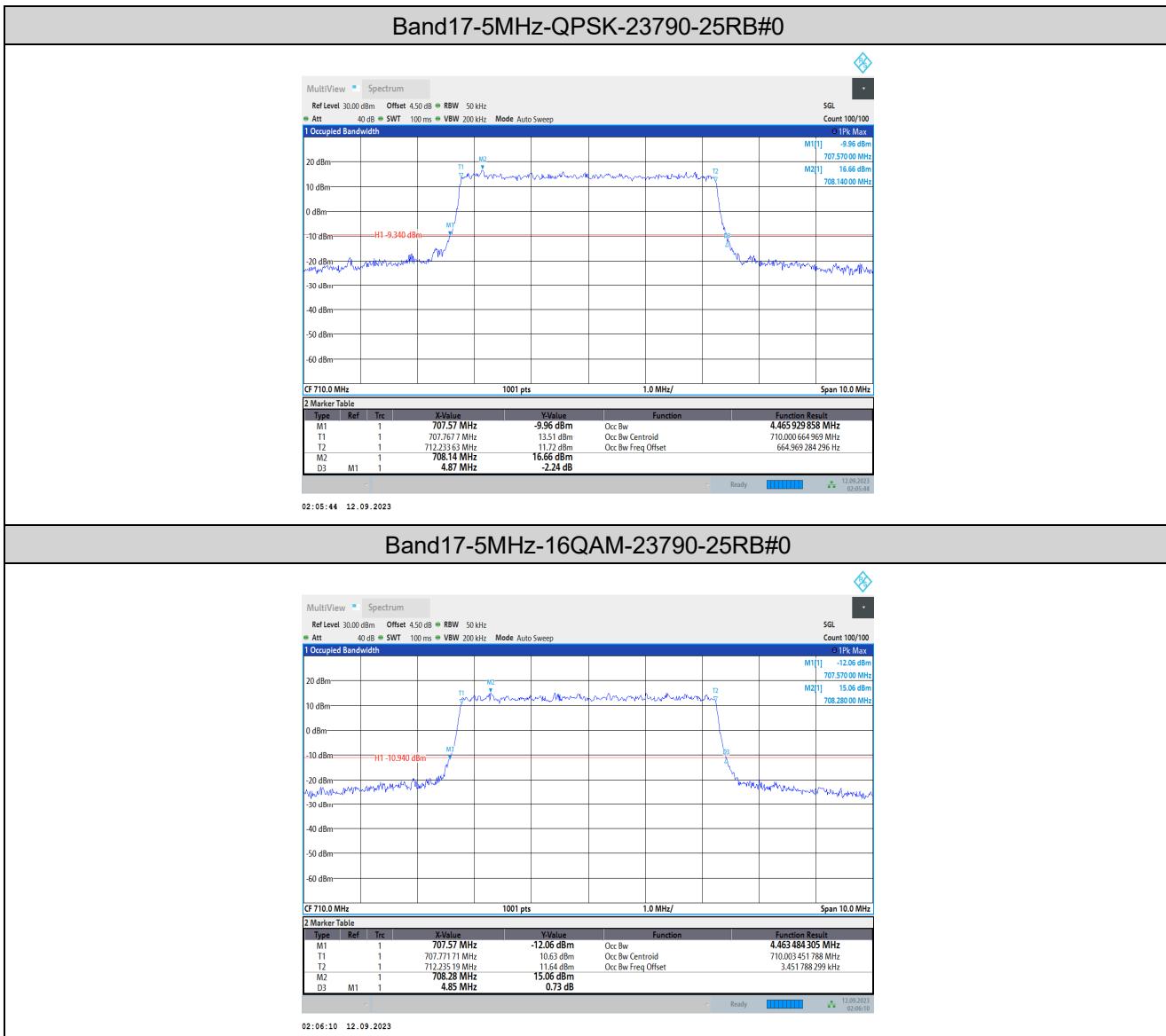
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Test Graphs



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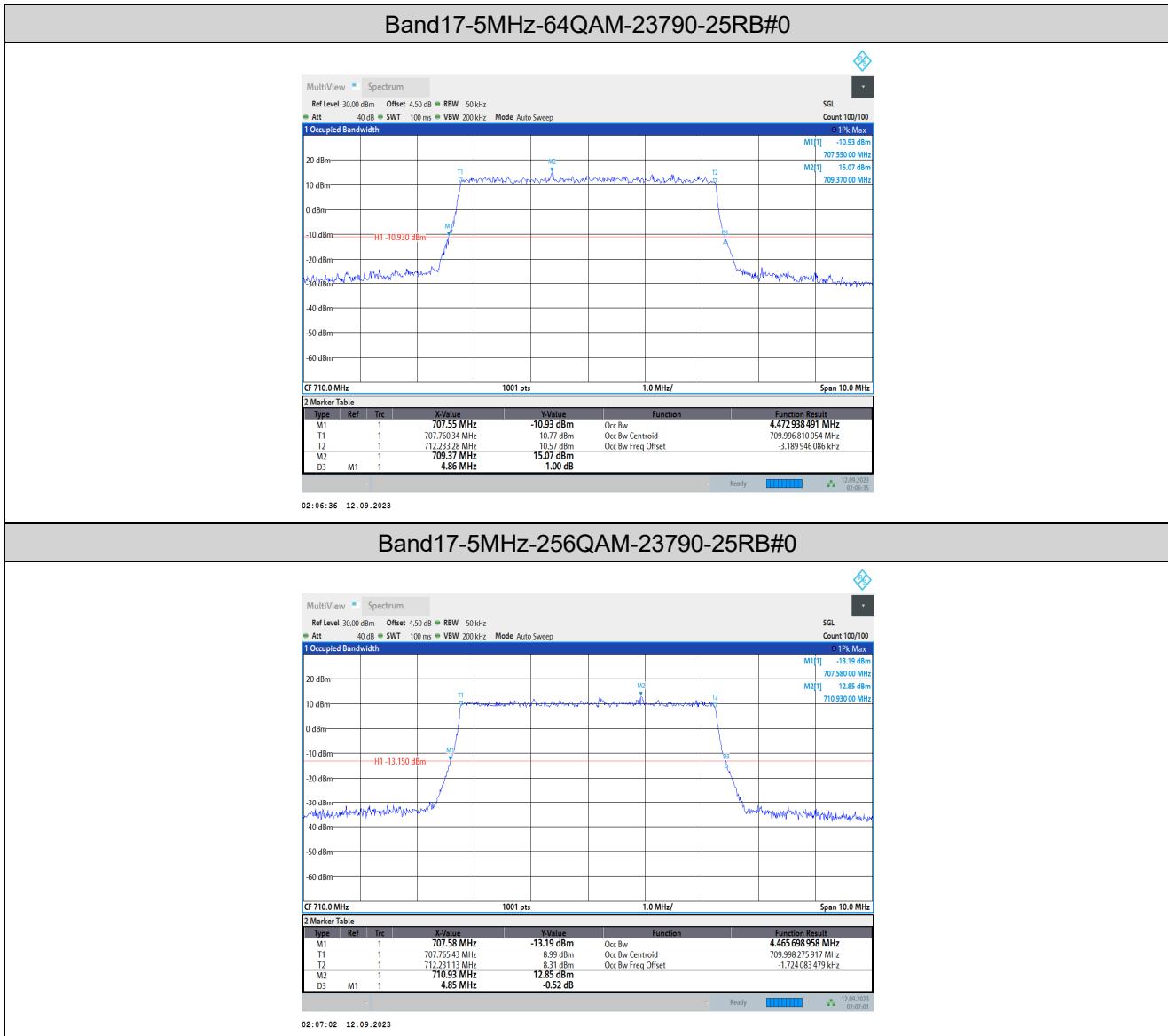


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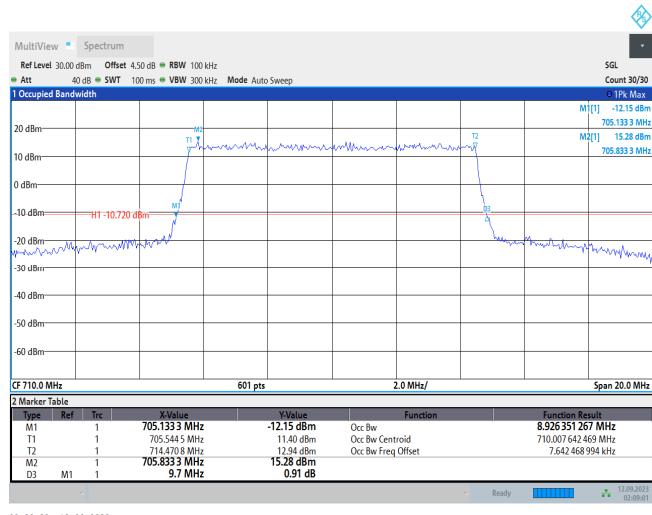
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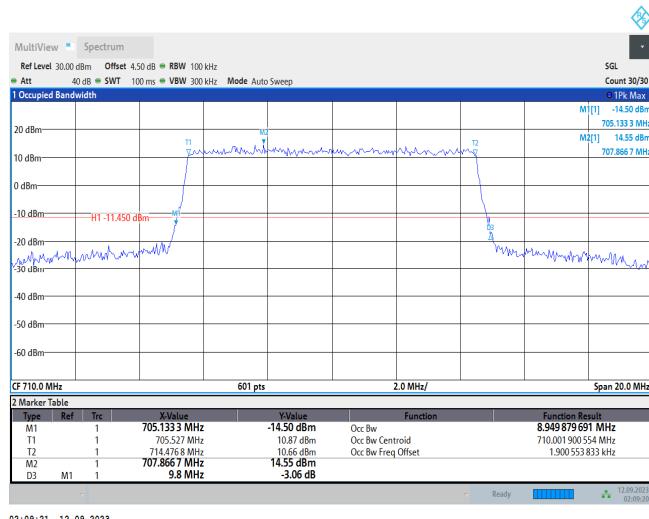


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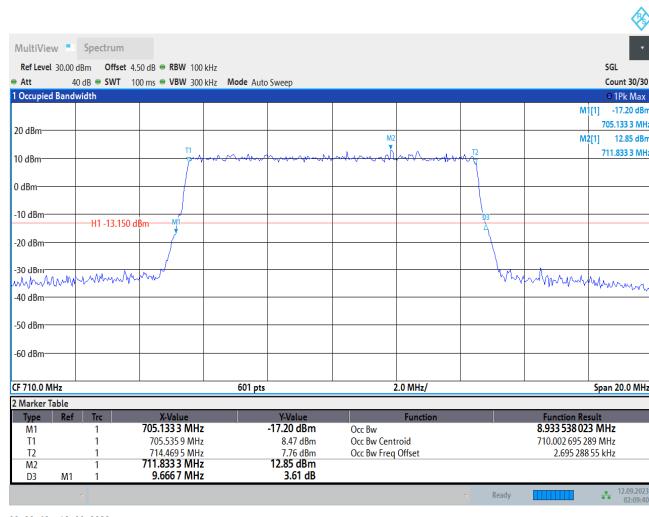
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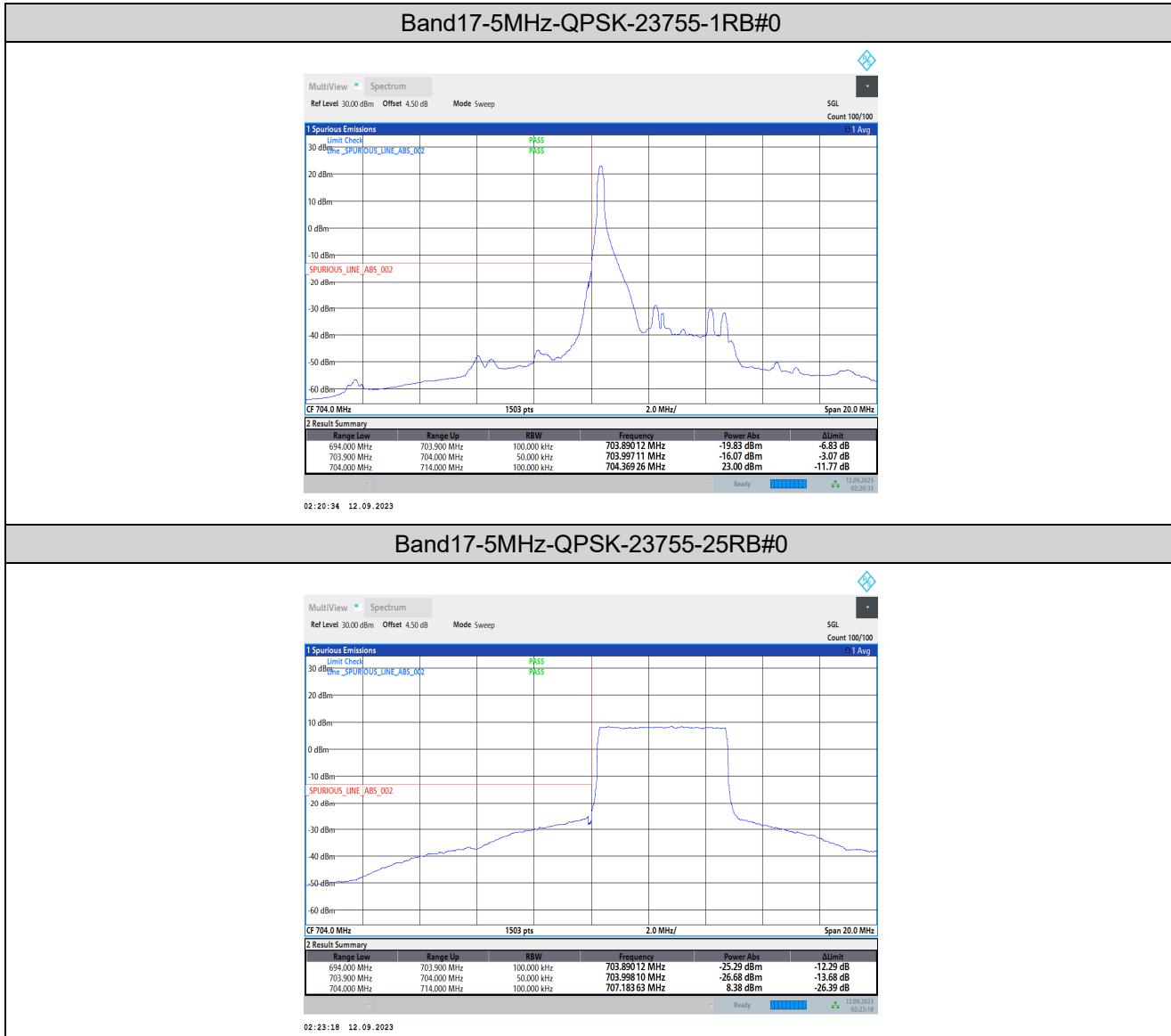
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Band Edge

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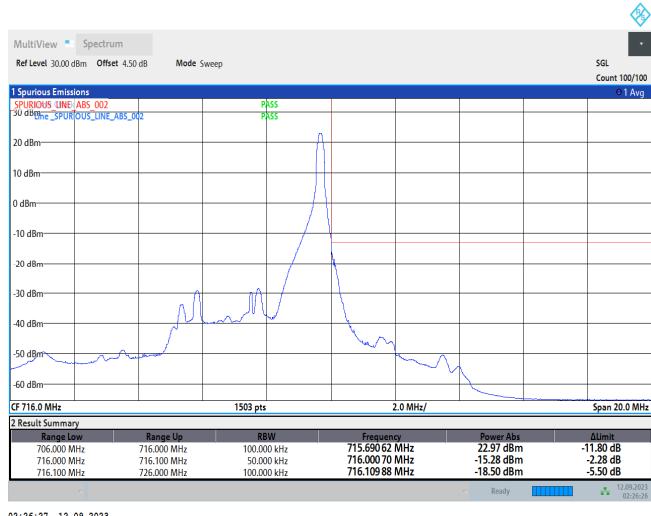
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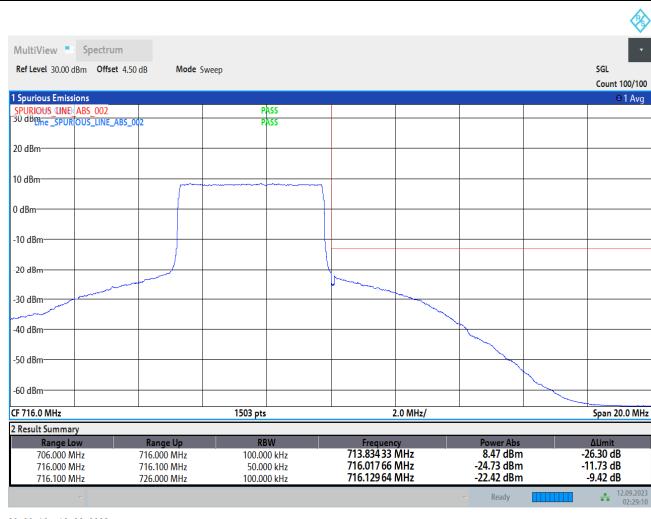
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Band17-5MHz-QPSK-23825-25RB#0



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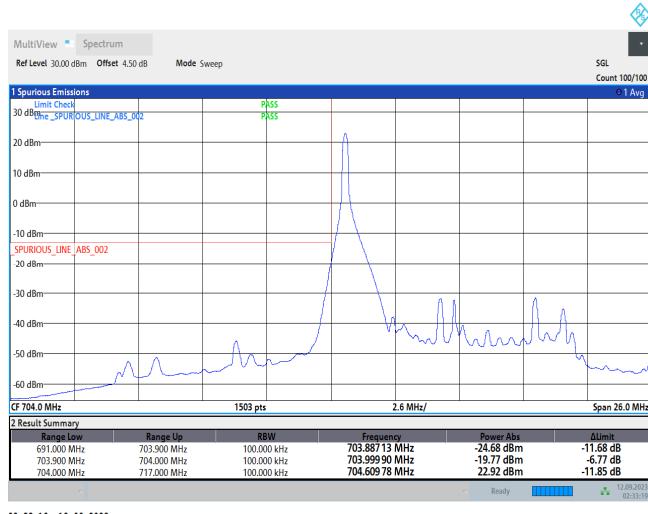


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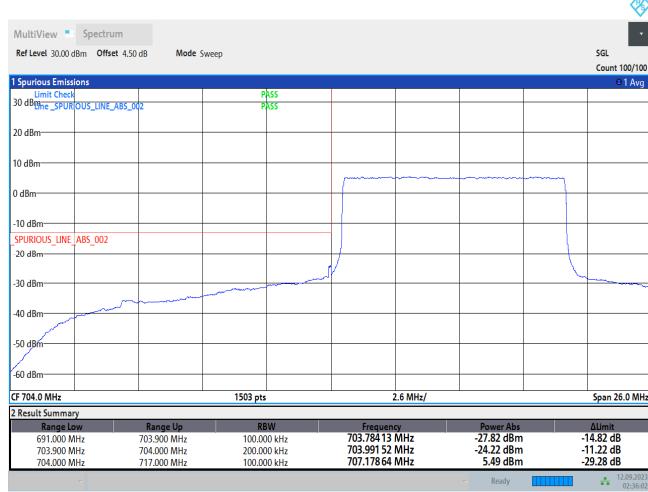
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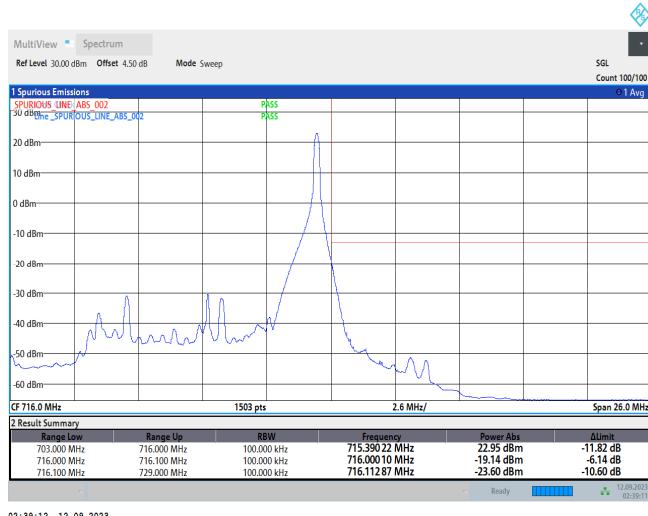


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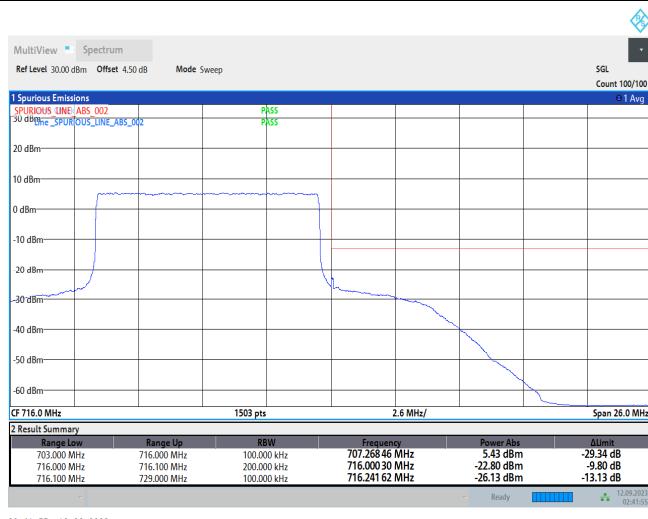
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Band17-10MHz-QPSK-23800-1RB#49



Band17-10MHz-QPSK-23800-50RB#0



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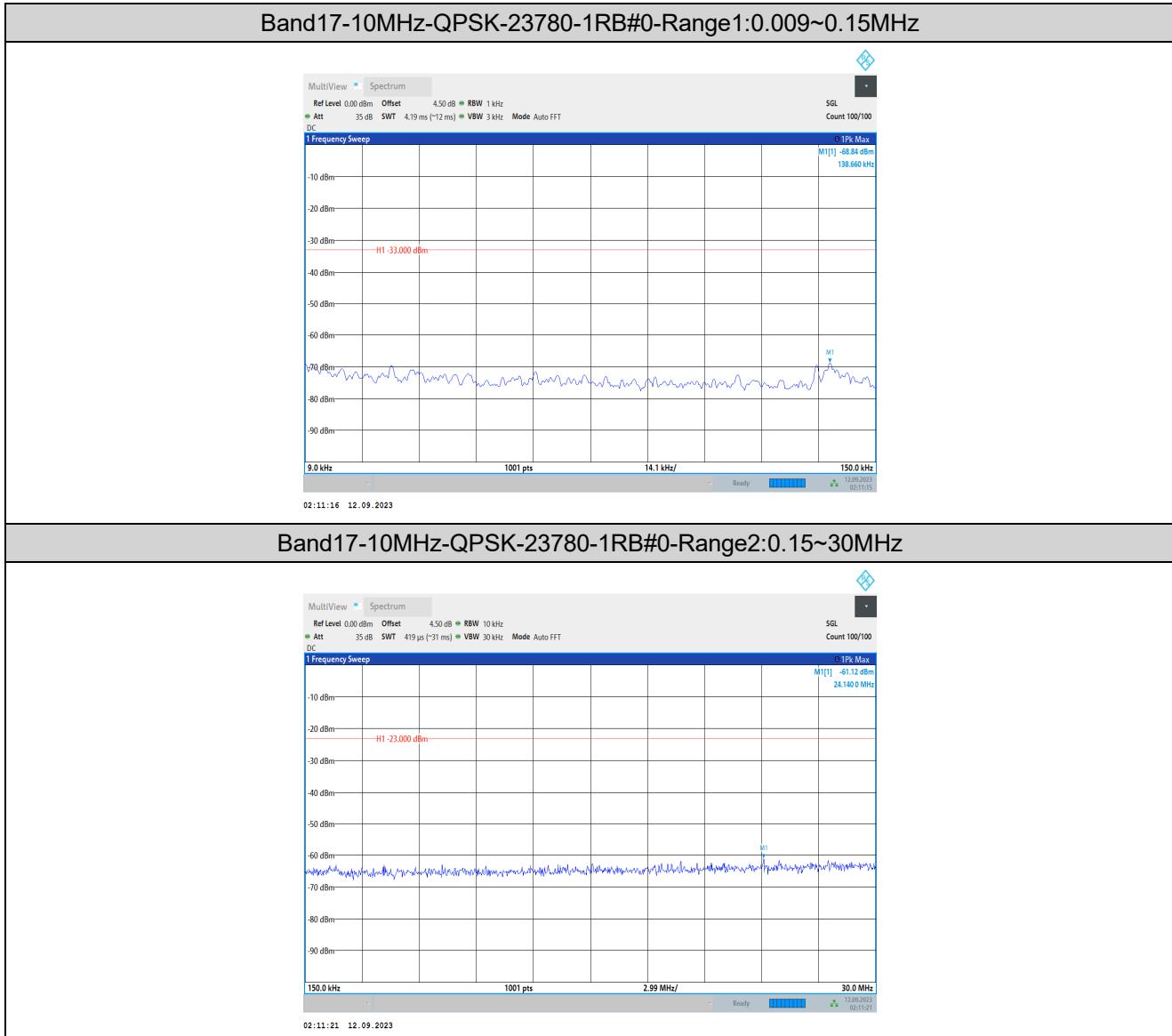
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Conducted Spurious Emission

Test Graphs



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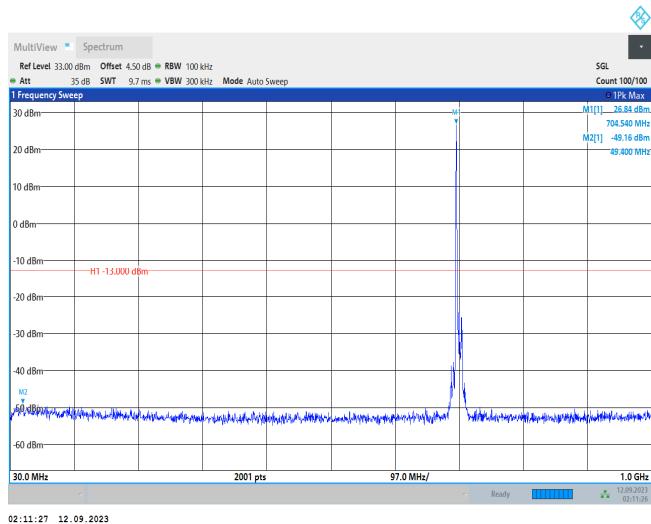
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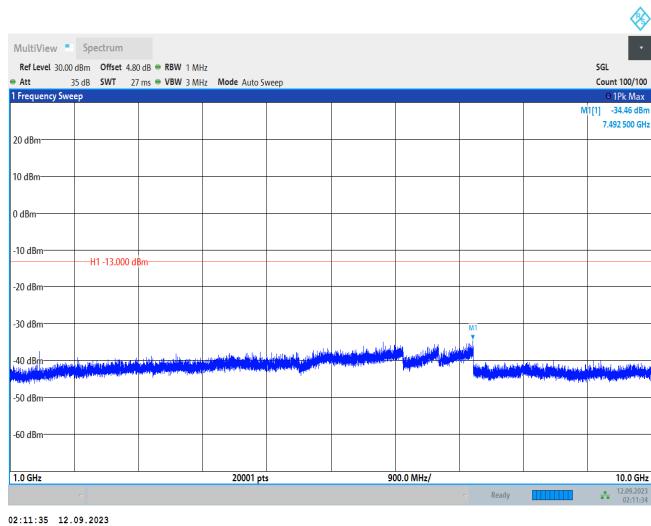
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Band17-10MHz-QPSK-23780-1RB#0-Range3:30~1000MHz



Band17-10MHz-QPSK-23780-1RB#0-Range4:1000~10000MHz



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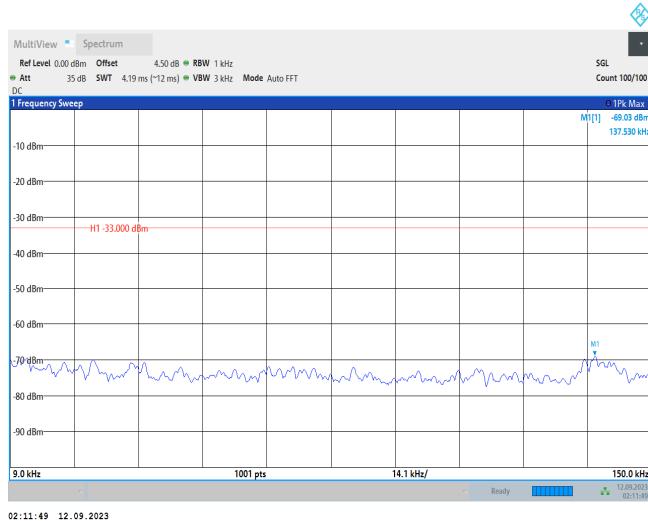


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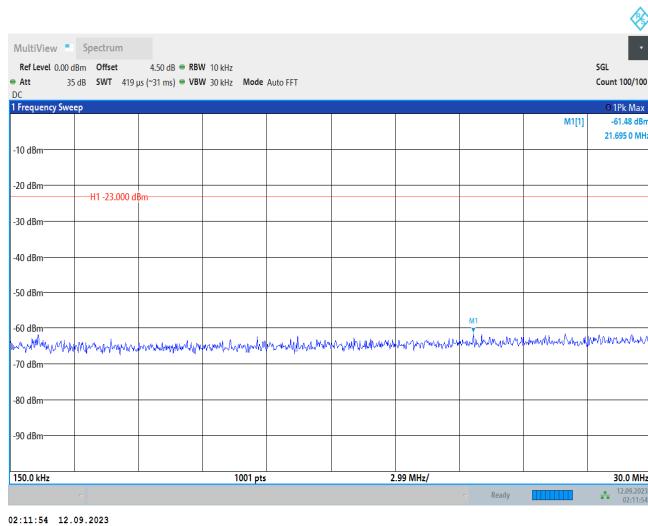
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Band17-10MHz-QPSK-23790-1RB#0-Range1:0.009~0.15MHz



Band17-10MHz-QPSK-23790-1RB#0-Range2:0.15~30MHz



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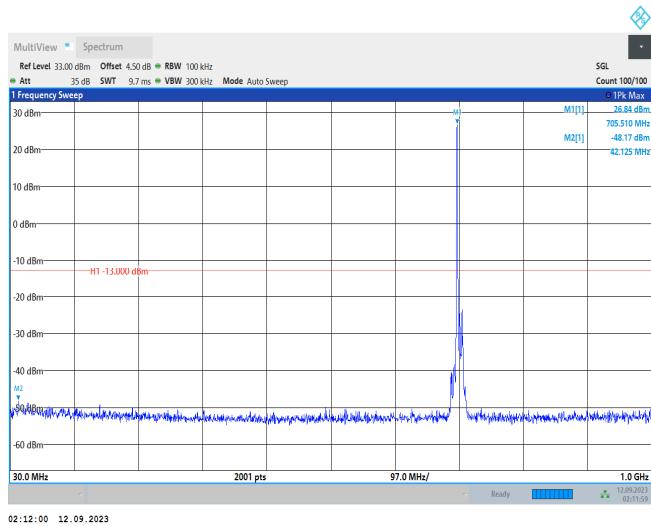
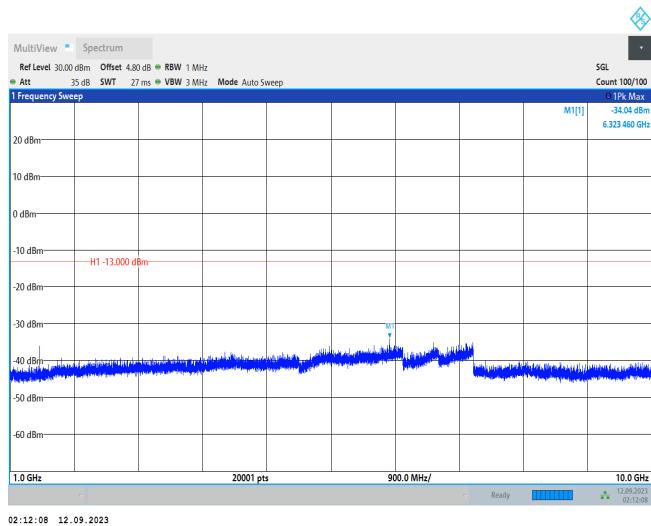
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Band17-10MHz-QPSK-23790-1RB#0-Range3:30~1000MHz**Band17-10MHz-QPSK-23790-1RB#0-Range4:1000~10000MHz**

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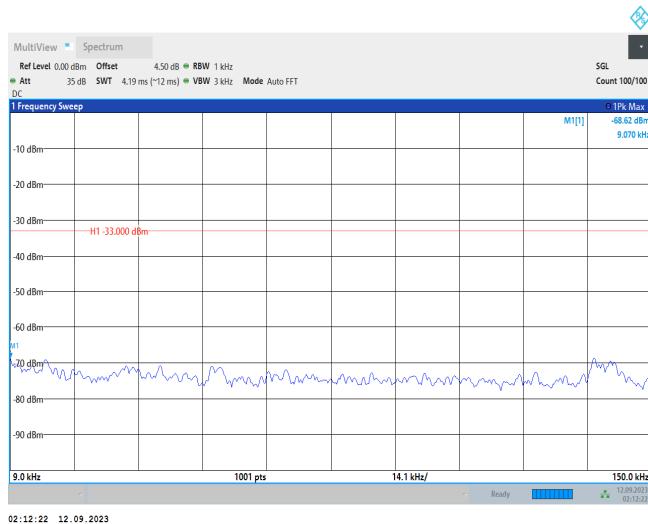


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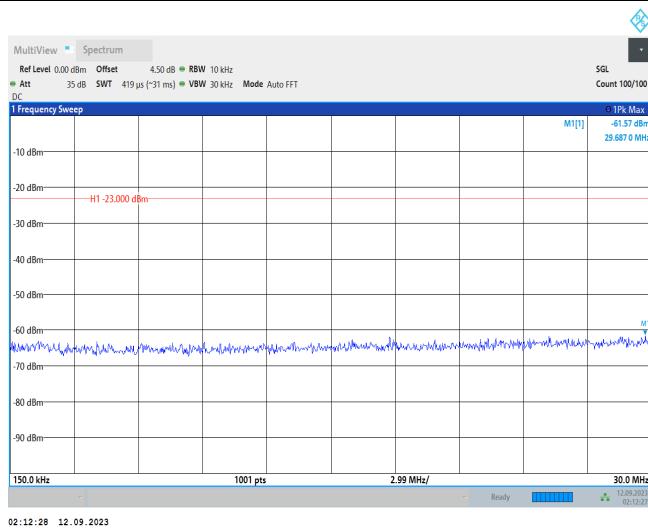
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Band17-10MHz-QPSK-23800-1RB#0-Range1:0.009~0.15MHz



Band17-10MHz-QPSK-23800-1RB#0-Range2:0.15~30MHz



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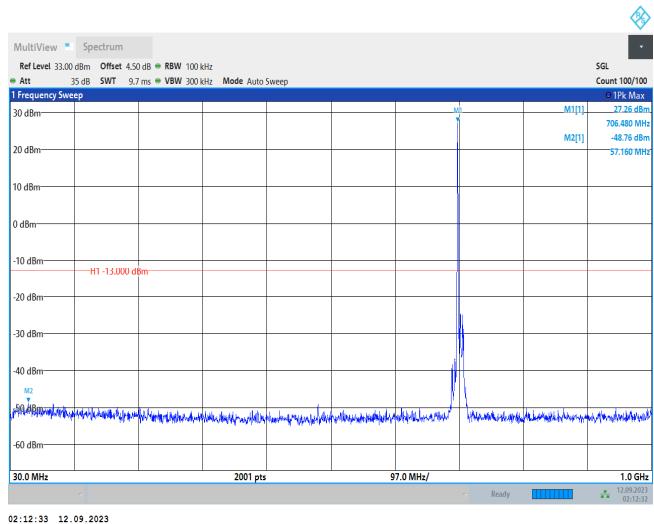


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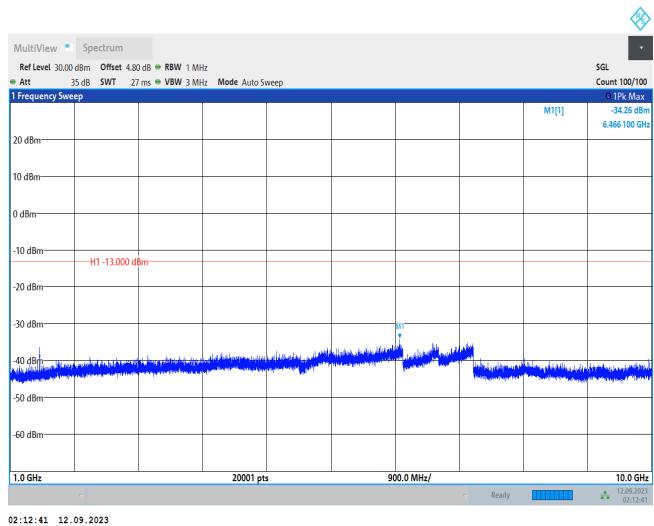
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Band17-10MHz-QPSK-23800-1RB#0-Range3:30~1000MHz



Band17-10MHz-QPSK-23800-1RB#0-Range4:1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band 17_10MHz_TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1409.18	55.76	-49.99	24.34	-65.16	-13.00	52.16	Horizontal
2	2113.77	45.21	-49.46	26.84	-72.68	-13.00	59.68	Horizontal
3	2818.36	44.84	-48.70	28.06	-71.05	-13.00	58.05	Horizontal
4	3522.95	44.81	-48.44	28.73	-70.16	-13.00	57.16	Horizontal
5	4227.54	44.16	-48.27	29.81	-69.56	-13.00	56.56	Horizontal
6	4932.13	42.61	-48.10	31.34	-69.41	-13.00	56.41	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1409.18	54.79	-49.99	24.34	-66.13	-13.00	53.13	Vertical
2	2113.77	50.48	-49.46	26.84	-67.41	-13.00	54.41	Vertical
3	2818.36	44.95	-48.70	28.06	-70.94	-13.00	57.94	Vertical
4	3522.95	44.93	-48.44	28.73	-70.04	-13.00	57.04	Vertical
5	4227.54	43.59	-48.27	29.81	-70.13	-13.00	57.13	Vertical
6	4932.13	43.11	-48.10	31.34	-68.91	-13.00	55.91	Vertical

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Test Band = LTE Band 17_10MHz_TM1

Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1411.18	52.74	-49.99	24.35	-68.16	-13.00	55.16	Horizontal
2	2116.77	44.81	-49.47	26.84	-73.07	-13.00	60.07	Horizontal
3	2822.36	44.91	-48.70	28.07	-70.98	-13.00	57.98	Horizontal
4	3527.95	45.59	-48.44	28.74	-69.37	-13.00	56.37	Horizontal
5	4233.54	44.24	-48.25	29.82	-69.45	-13.00	56.45	Horizontal
6	4939.13	43.46	-48.09	31.35	-68.53	-13.00	55.53	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1411.18	53.68	-49.99	24.35	-67.22	-13.00	54.22	Vertical
2	2116.77	45.09	-49.47	26.84	-72.79	-13.00	59.79	Vertical
3	2822.36	44.66	-48.70	28.07	-71.23	-13.00	58.23	Vertical
4	3527.95	45.19	-48.44	28.74	-69.77	-13.00	56.77	Vertical
5	4233.54	43.56	-48.25	29.82	-70.13	-13.00	57.13	Vertical
6	4939.13	43.67	-48.09	31.35	-68.32	-13.00	55.32	Vertical



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Test Band = LTE Band 17_10MHz_TM1

Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.18	55.42	-49.99	24.35	-65.47	-13.00	52.47	Horizontal
2	2119.77	44.48	-49.47	26.84	-73.40	-13.00	60.40	Horizontal
3	2826.36	44.84	-48.71	28.08	-71.04	-13.00	58.04	Horizontal
4	3532.95	44.88	-48.45	28.75	-70.08	-13.00	57.08	Horizontal
5	4239.54	43.97	-48.23	29.83	-69.69	-13.00	56.69	Horizontal
6	4946.13	43.76	-48.07	31.37	-68.20	-13.00	55.20	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.18	56.60	-49.99	24.35	-64.29	-13.00	51.29	Vertical
2	2119.77	44.78	-49.47	26.84	-73.10	-13.00	60.10	Vertical
3	2826.36	44.34	-48.71	28.08	-71.54	-13.00	58.54	Vertical
4	3532.95	44.90	-48.45	28.75	-70.06	-13.00	57.06	Vertical
5	4239.54	43.98	-48.23	29.83	-69.68	-13.00	56.68	Vertical
6	4946.13	42.87	-48.07	31.37	-69.09	-13.00	56.09	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	5.70	0.008028	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	0.60	0.000845	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	-0.20	-0.000282	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	1.90	0.002676	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	-0.60	-0.000845	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	1.20	0.001690	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	-1.50	-0.002113	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	-1.50	-0.002113	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	3.80	0.005352	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	3.20	0.004507	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	4.70	0.006620	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	0.40	0.000563	PASS

---End of Attachment---

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