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Appendix B.7

LTE Band 17



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Effective (Isotropic) Radiated Power Output Data

Test ResultAnt1

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	22.99	21.19	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.00	21.20	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.02	21.22	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.08	20.28	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.07	21.27	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.00	21.20	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	22.93	21.13	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.04	20.24	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.04	21.24	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	22.94	21.14	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	22.87	21.07	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	21.97	20.17	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.29	20.49	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.29	20.49	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	22.30	20.50	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.12	19.32	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.29	20.49	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.28	20.48	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	22.13	20.33	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.09	19.29	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	22.25	20.45	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	22.21	20.41	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.19	20.39	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.03	19.23	34.77	PASS



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Band17	5MHz	64QAM	23755	1RB#0	21.30	19.50	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#12	21.16	19.36	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	21.25	19.45	34.77	PASS
Band17	5MHz	64QAM	23755	25RB#0	20.08	18.28	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	21.25	19.45	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#12	21.24	19.44	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	21.20	19.40	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	20.11	18.31	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	21.26	19.46	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	21.12	19.32	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	21.06	19.26	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	20.00	18.20	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.03	21.23	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.08	21.28	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	22.92	21.12	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.16	20.36	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.22	21.42	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.11	21.31	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	22.89	21.09	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.14	20.34	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.16	21.36	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.01	21.21	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	22.90	21.10	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.09	20.29	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	22.47	20.67	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.35	20.55	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.29	20.49	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.17	19.37	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.48	20.68	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.37	20.57	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	22.08	20.28	34.77	PASS



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Band17	10MHz	16QAM	23800	1RB#0	22.43	20.63	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	22.27	20.47	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	22.12	20.32	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.16	19.36	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	21.28	19.48	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	21.28	19.48	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	21.15	19.35	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	20.17	18.37	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#0	21.34	19.54	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	21.31	19.51	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	21.12	19.32	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	20.13	18.33	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	21.39	19.59	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	21.19	19.39	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	21.02	19.22	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	20.13	18.33	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	5.38	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.40	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.28	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.32	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.08	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.10	13	PASS
Band17	10MHz	64QAM	23780	50RB#0	6.64	13	PASS
Band17	10MHz	64QAM	23790	50RB#0	6.56	13	PASS
Band17	10MHz	64QAM	23800	50RB#0	6.52	13	PASS



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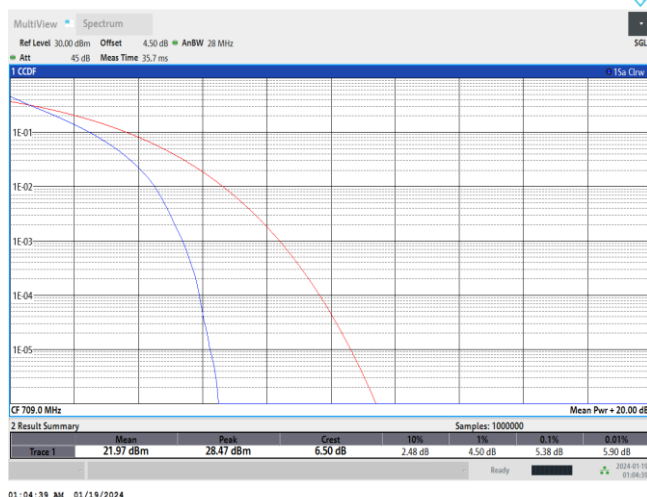
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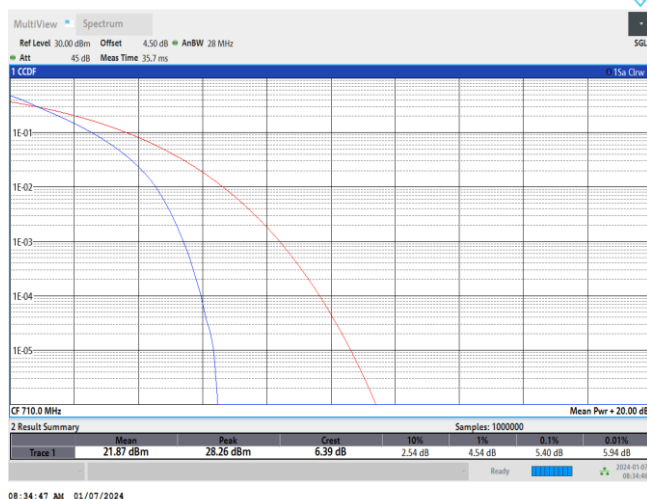
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Test Graphs

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



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



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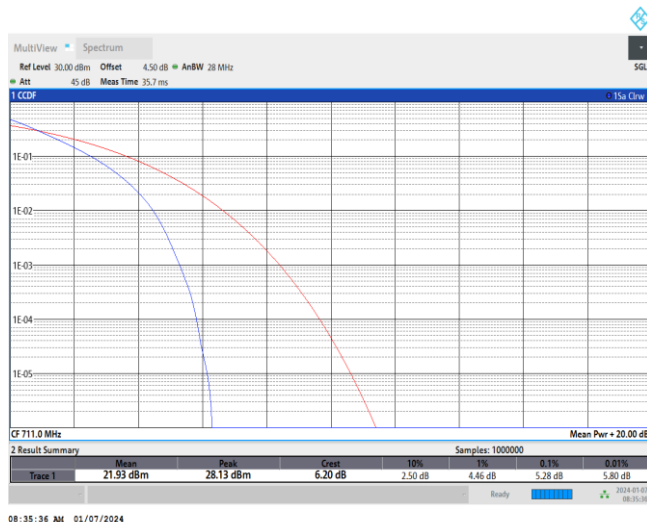
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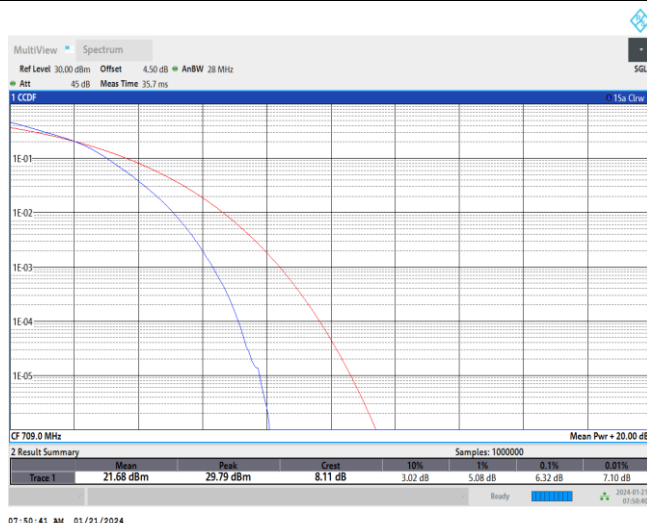
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Band17-10MHz-16QAM-23780-50RB#0



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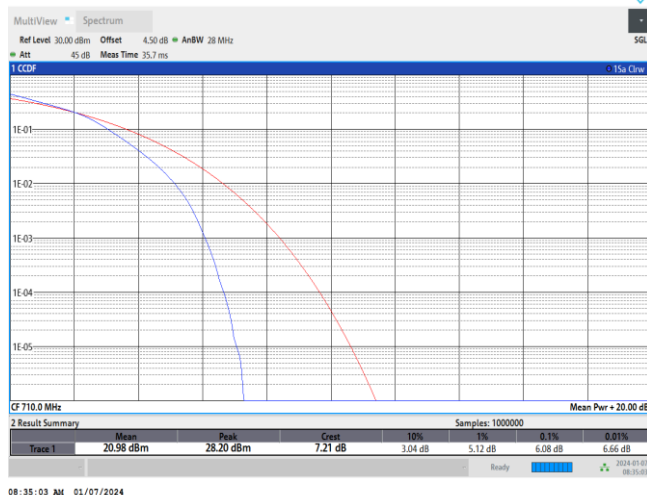
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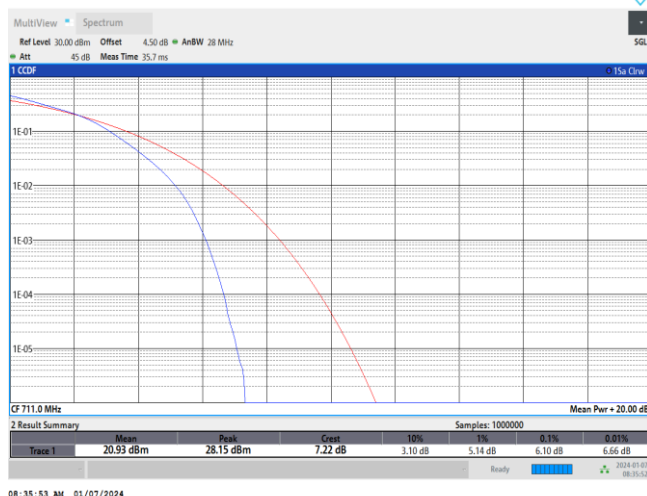
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Band17-10MHz-16QAM-23790-50RB#0



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



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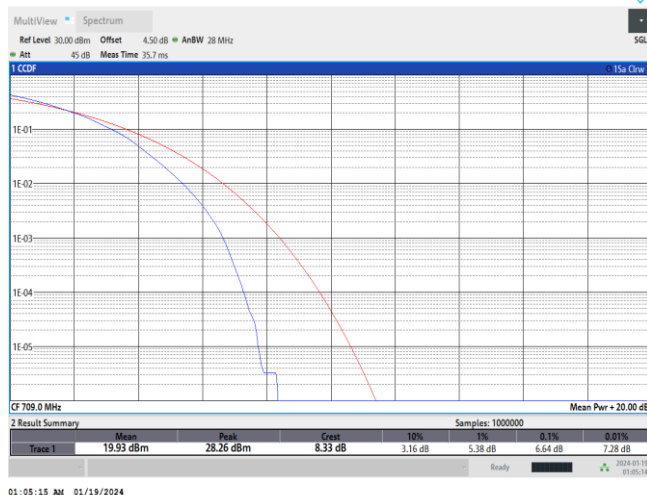
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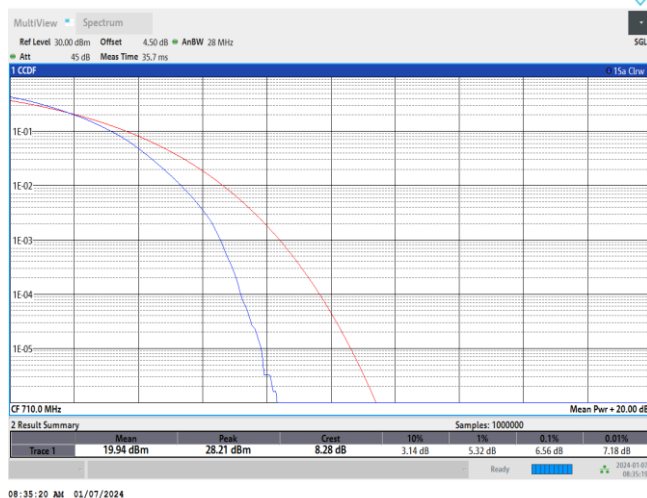
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Band17-10MHz-64QAM-23790-50RB#0



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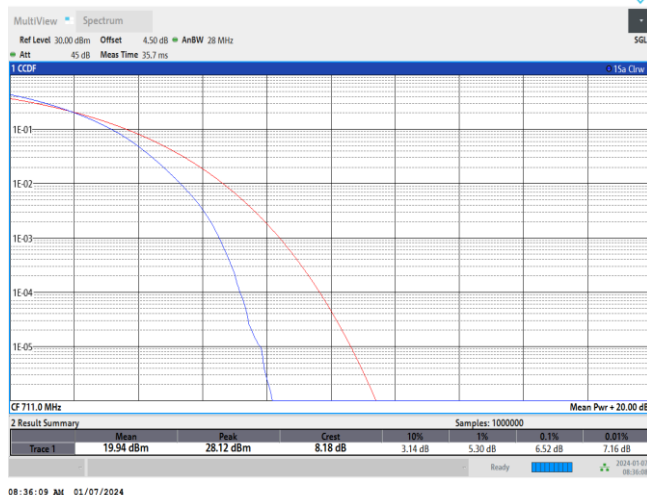
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Band17-10MHz-64QAM-23800-50RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23790	25RB#0	4.468	4.89	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.467	4.92	PASS
Band17	5MHz	64QAM	23790	25RB#0	4.483	4.89	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.935	9.70	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.921	9.63	PASS
Band17	10MHz	64QAM	23790	50RB#0	8.941	9.70	PASS



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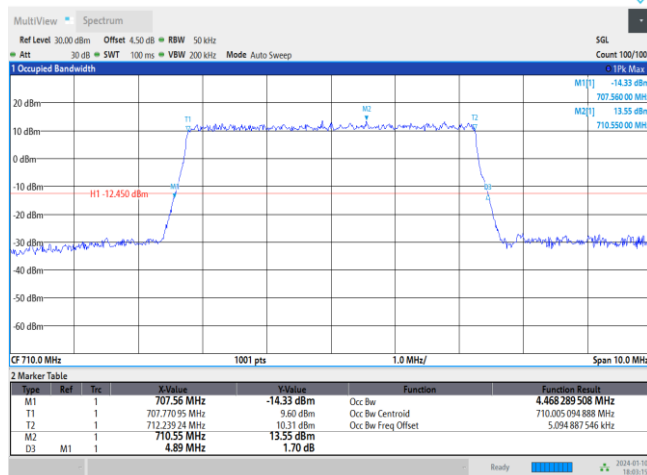
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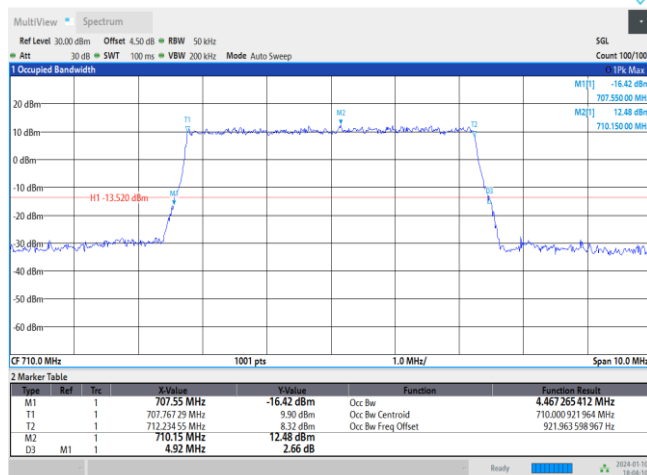
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Test Graphs

Band17-5MHz-QPSK-23790-25RB#0



Band17-5MHz-16QAM-23790-25RB#0



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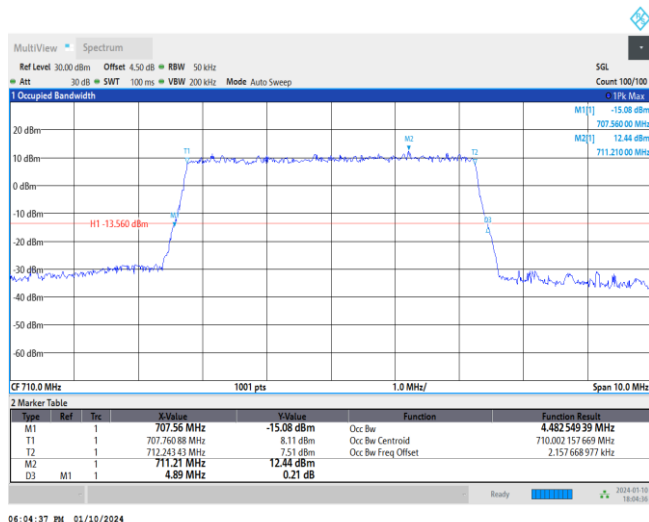
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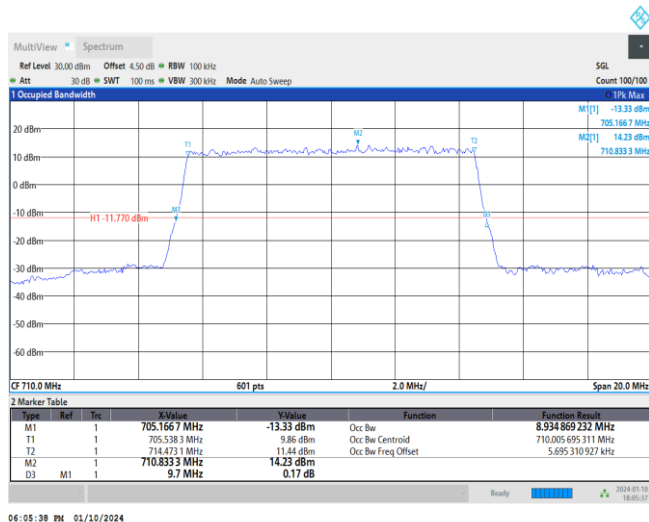
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Band17-5MHz-64QAM-23790-25RB#0



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



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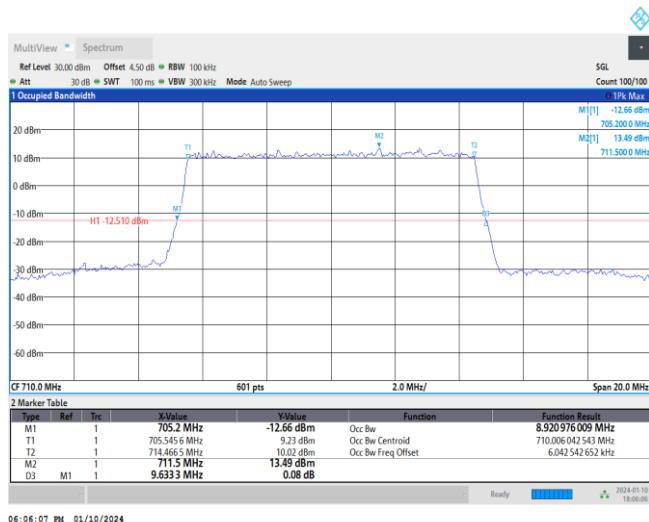
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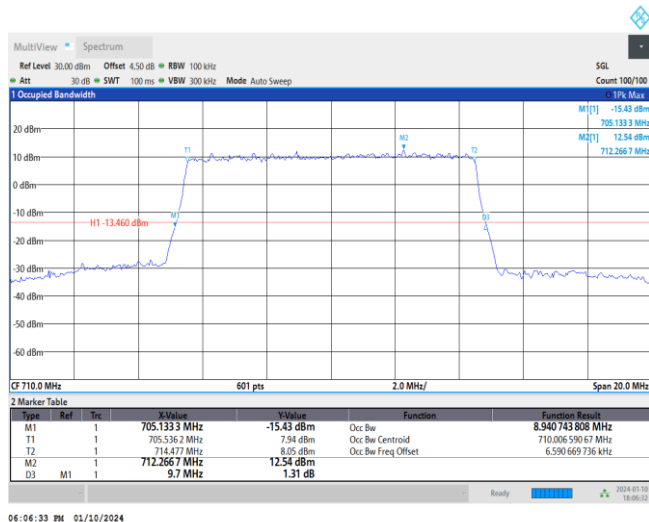
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Band17-10MHz-16QAM-23790-50RB#0



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



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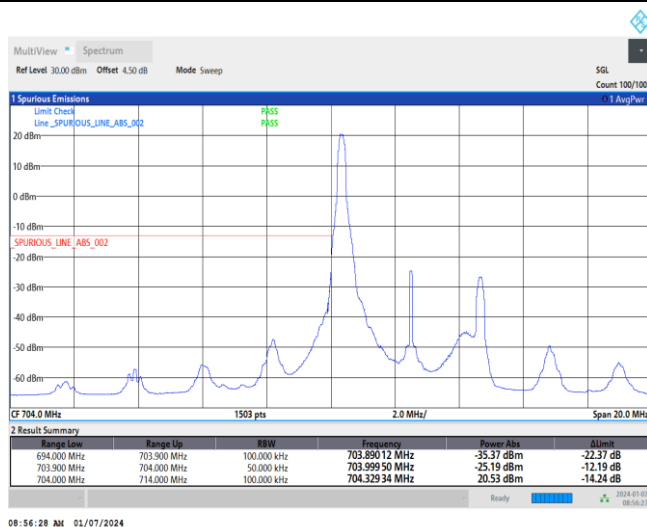
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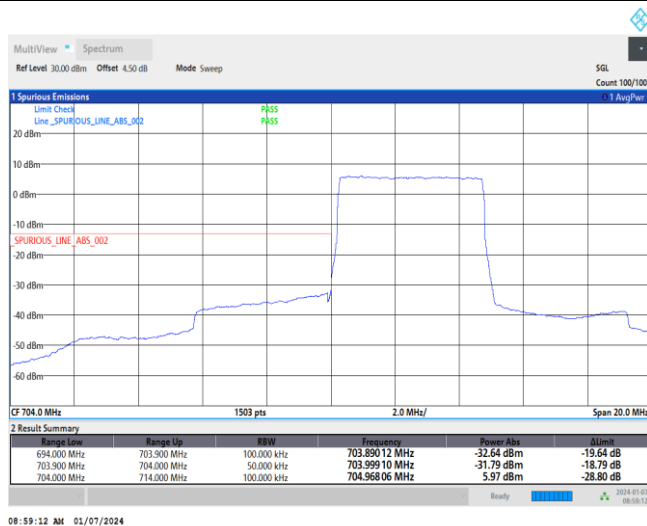
Band Edge

Test Graphs

Band17-5MHz-QPSK-23755-1RB#0



Band17-5MHz-QPSK-23755-25RB#0



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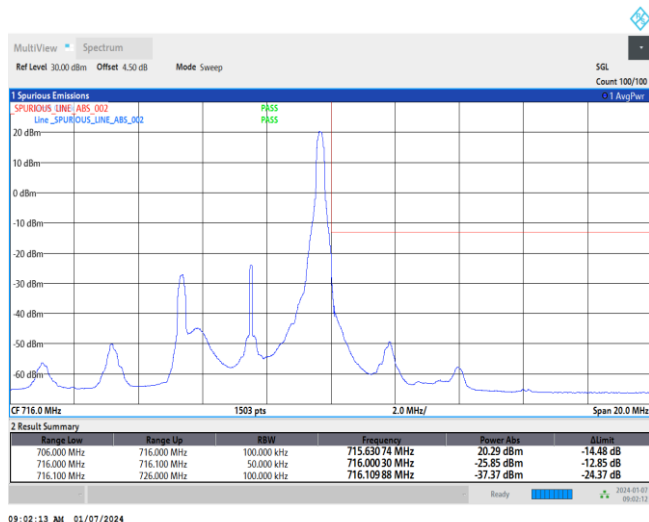
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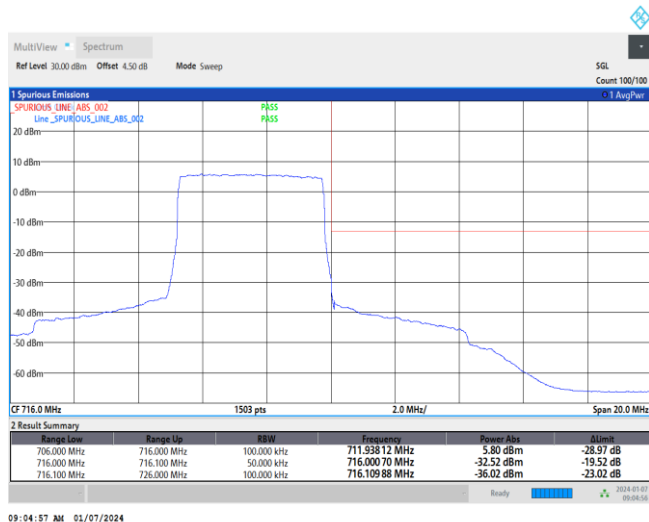
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Band17-5MHz-QPSK-23825-1RB#24



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



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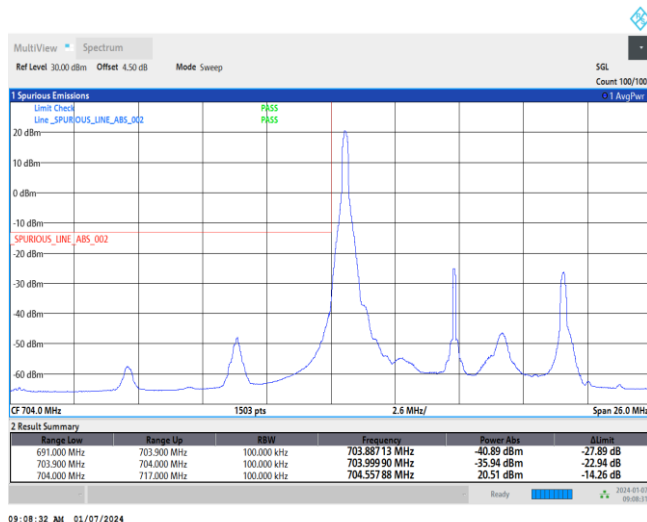
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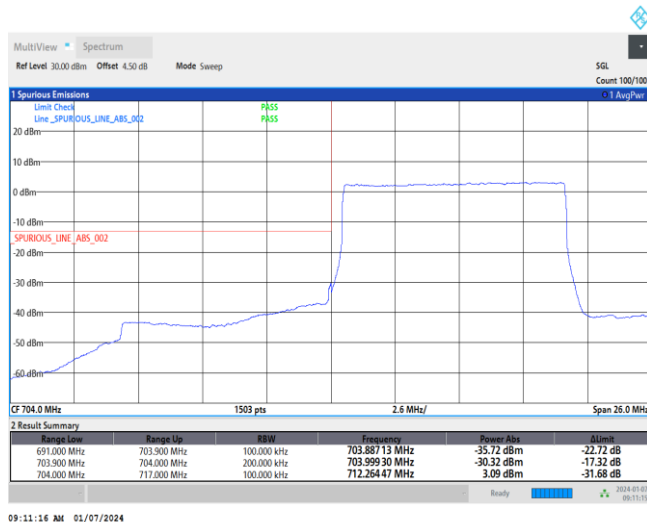
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Band17-10MHz-QPSK-23780-1RB#0



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



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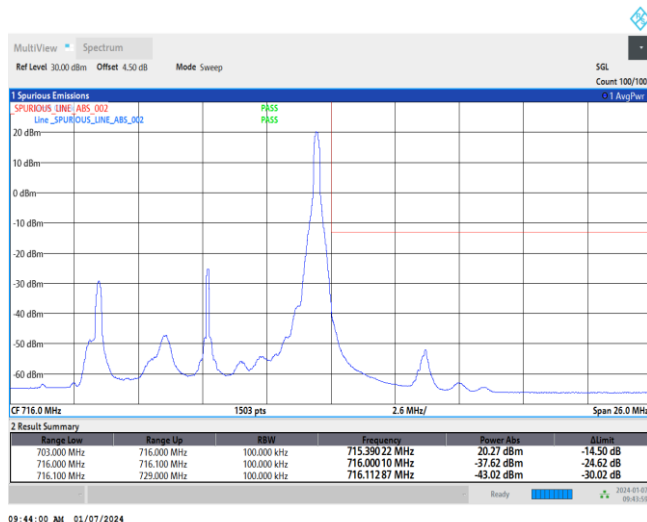
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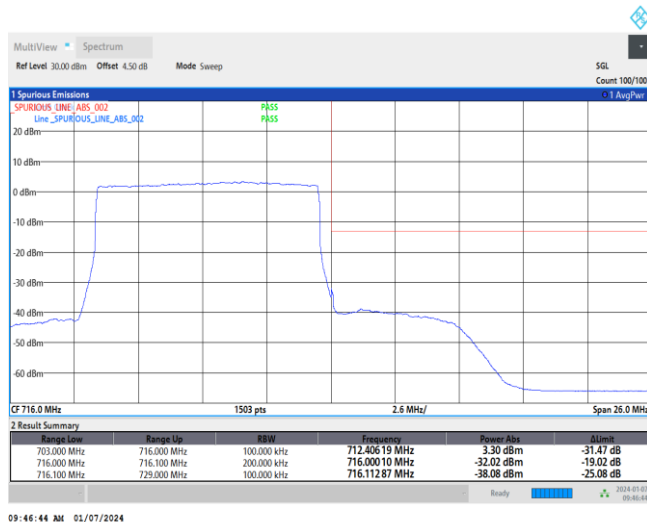
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Band17-10MHz-QPSK-23800-1RB#49



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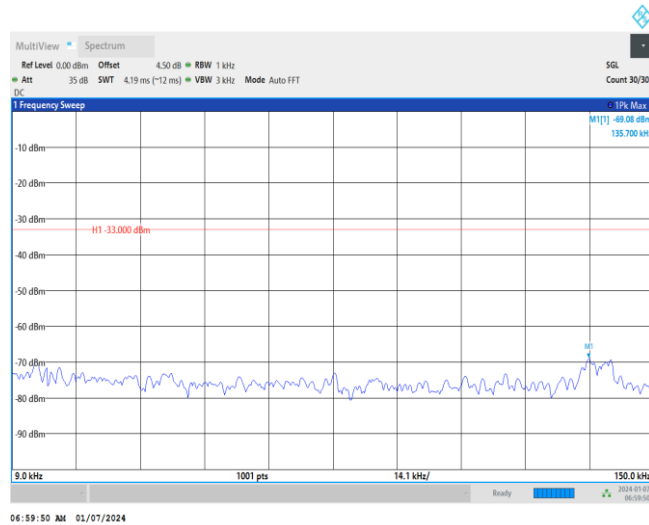
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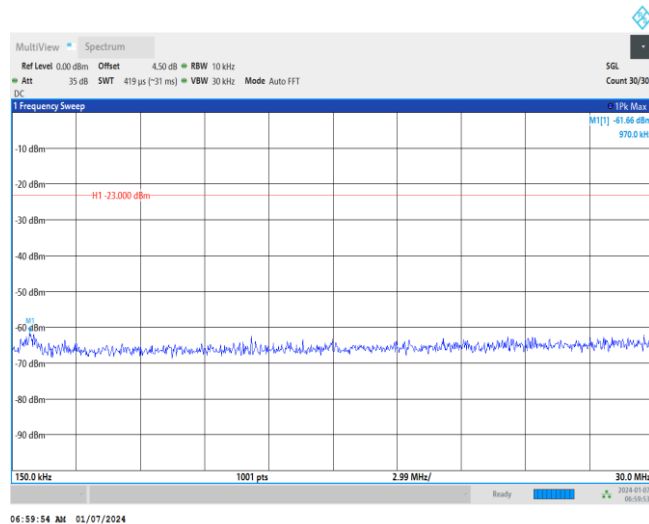
Conducted Spurious Emission

Test Graphs

Band17-10MHz-QPSK-23780-1RB#0-Range1:0.009~0.15MHz



Band17-10MHz-QPSK-23780-1RB#0-Range2:0.15~30MHz



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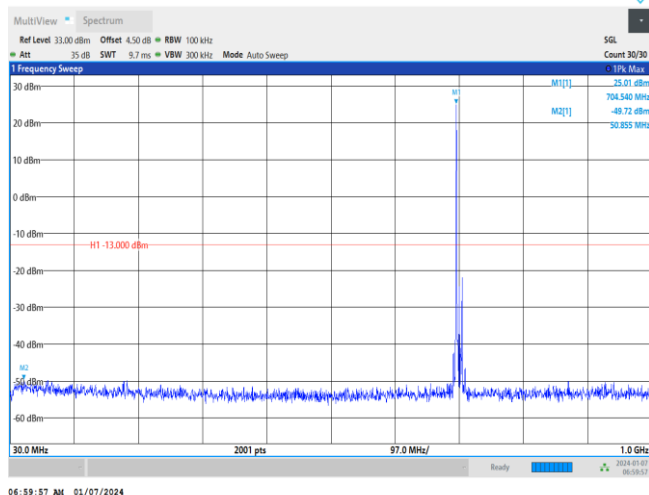
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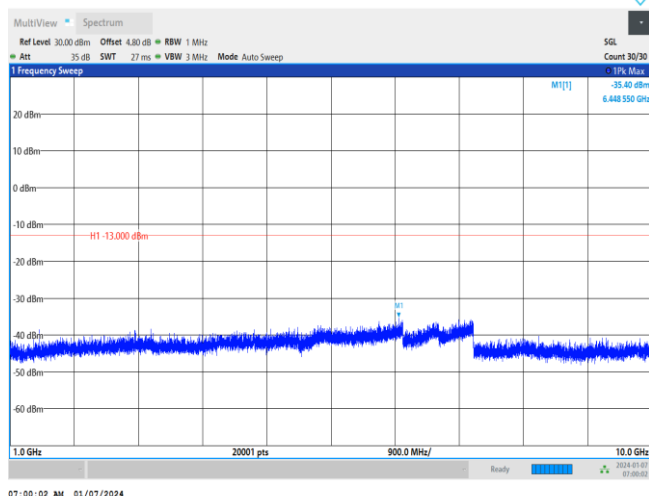
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Band17-10MHz-QPSK-23780-1RB#0-Range3:30~1000MHz



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



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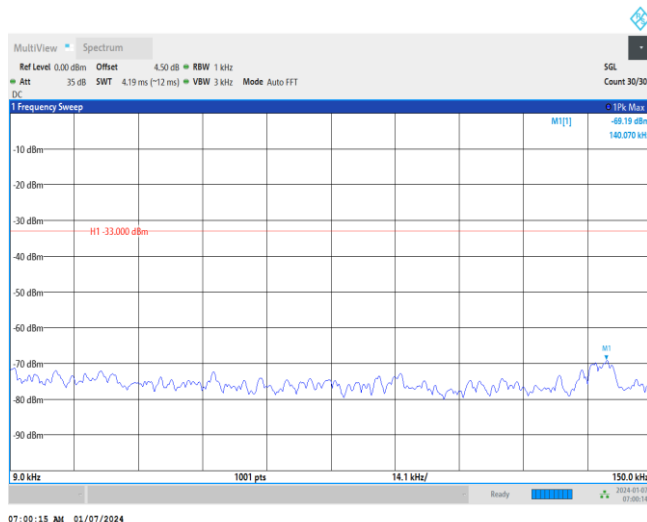
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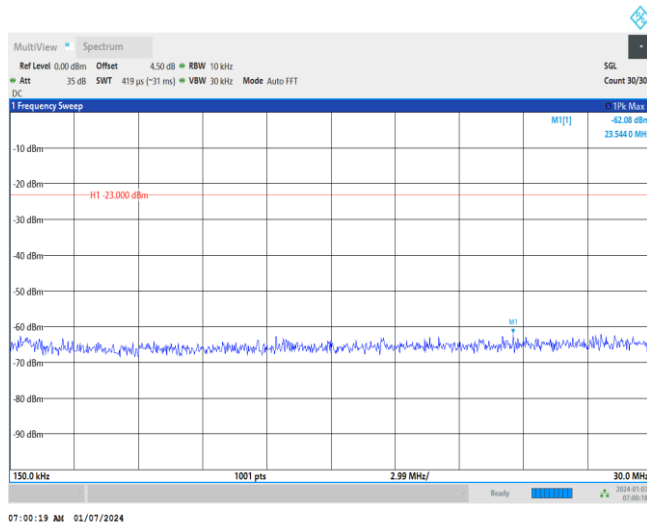
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Band17-10MHz-QPSK-23790-1RB#0-Range1:0.009~0.15MHz



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



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t (86-512) 62992980 sgs.china@sgs.com

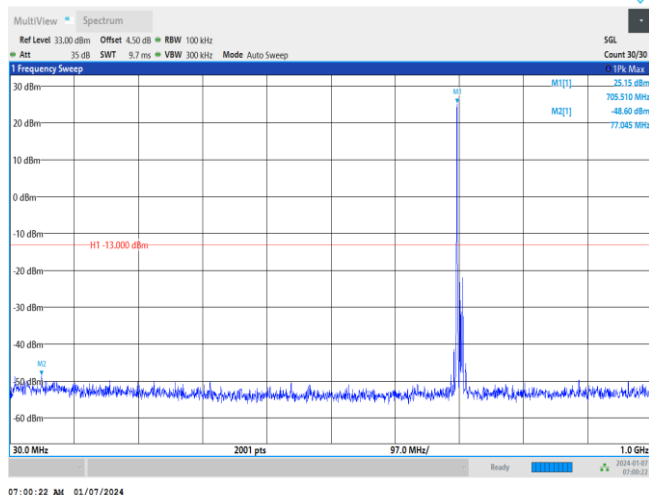
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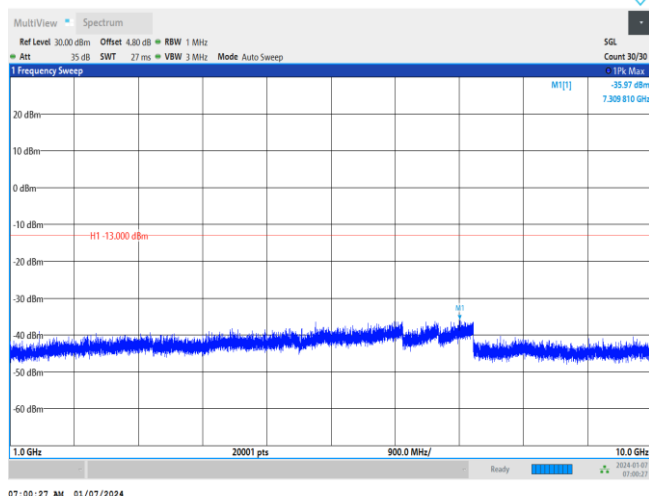
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Band17-10MHz-QPSK-23790-1RB#0-Range3:30~1000MHz



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



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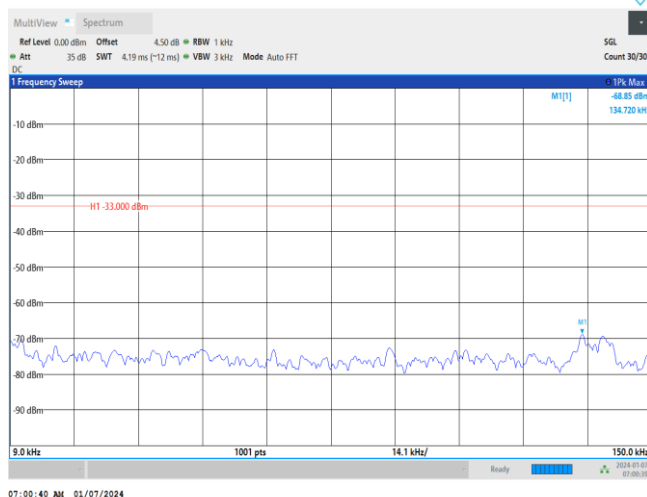
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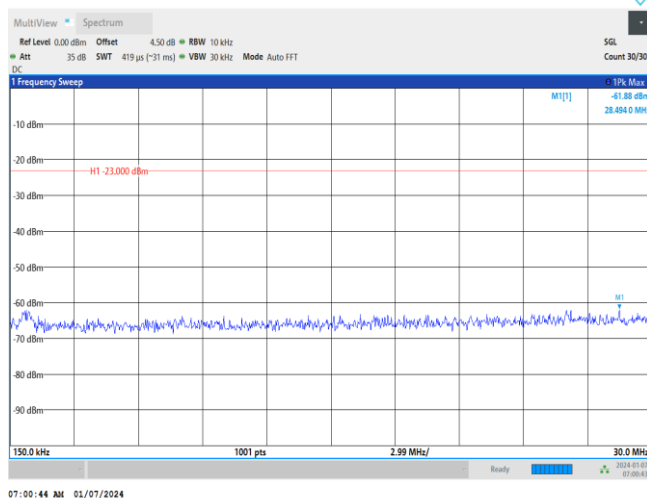
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Band17-10MHz-QPSK-23800-1RB#0-Range1:0.009~0.15MHz



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



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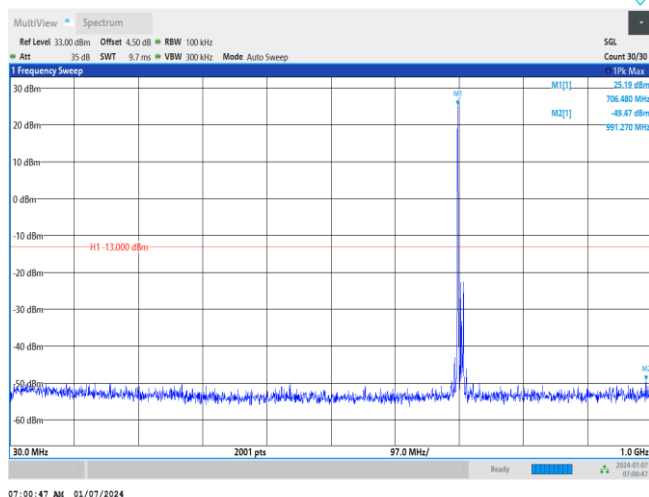
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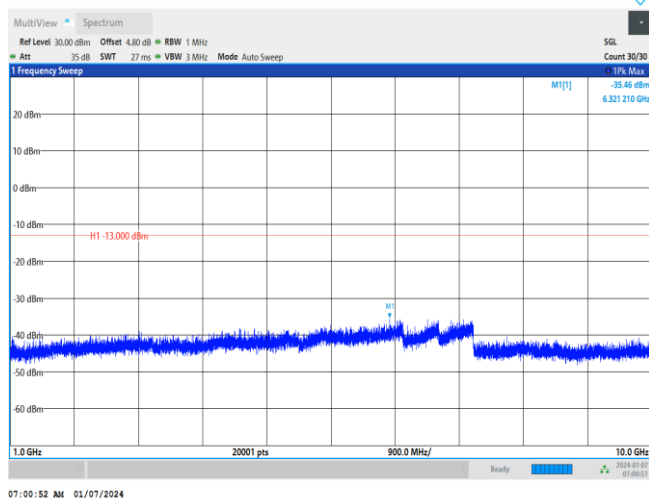
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Band17-10MHz-QPSK-23800-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation**Test Band = LTE Band 17_ TM1****Test Channel = Low Channel**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1409.18	39.72	-47.27	25.08	-77.73	-13.00	64.73	Horizontal
2	2113.77	35.22	-45.68	26.55	-79.17	-13.00	66.17	Horizontal
3	2818.36	33.20	-44.39	28.74	-77.71	-13.00	64.71	Horizontal
4	3522.95	32.16	-43.30	29.68	-76.72	-13.00	63.72	Horizontal
5	4227.54	31.62	-42.33	31.66	-74.31	-13.00	61.31	Horizontal
6	4932.13	32.58	-41.41	33.05	-71.04	-13.00	58.04	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1409.18	39.65	-47.27	25.08	-77.80	-13.00	64.80	Vertical
2	2113.77	34.88	-45.68	26.55	-79.51	-13.00	66.51	Vertical
3	2818.36	33.06	-44.39	28.74	-77.85	-13.00	64.85	Vertical
4	3522.95	32.04	-43.30	29.68	-76.84	-13.00	63.84	Vertical
5	4227.54	31.21	-42.33	31.66	-74.72	-13.00	61.72	Vertical
6	4932.13	32.50	-41.41	33.05	-71.12	-13.00	58.12	Vertical



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Test Band = LTE Band 17_ TM1

Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1411.18	39.91	-47.27	25.07	-77.54	-13.00	64.54	Horizontal
2	2116.77	35.64	-45.67	26.56	-78.74	-13.00	65.74	Horizontal
3	2822.36	33.87	-44.38	28.76	-77.02	-13.00	64.02	Horizontal
4	3527.95	33.41	-43.30	29.70	-75.45	-13.00	62.45	Horizontal
5	4233.54	32.60	-42.32	31.67	-73.31	-13.00	60.31	Horizontal
6	4939.13	33.01	-41.39	33.07	-70.58	-13.00	57.58	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1411.18	39.99	-47.27	25.07	-77.46	-13.00	64.46	Vertical
2	2116.77	35.22	-45.67	26.56	-79.16	-13.00	66.16	Vertical
3	2822.36	33.57	-44.38	28.76	-77.32	-13.00	64.32	Vertical
4	3527.95	32.56	-43.30	29.70	-76.30	-13.00	63.30	Vertical
5	4233.54	31.94	-42.32	31.67	-73.97	-13.00	60.97	Vertical
6	4939.13	33.42	-41.39	33.07	-70.17	-13.00	57.17	Vertical



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Test Band = LTE Band 17_ TM1

Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.18	39.72	-47.26	25.07	-77.74	-13.00	64.74	Horizontal
2	2119.77	35.22	-45.67	26.56	-79.15	-13.00	66.15	Horizontal
3	2826.36	33.59	-44.37	28.77	-77.27	-13.00	64.27	Horizontal
4	3532.95	32.29	-43.29	29.71	-76.55	-13.00	63.55	Horizontal
5	4239.54	32.52	-42.32	31.68	-73.37	-13.00	60.37	Horizontal
6	4946.13	32.90	-41.38	33.08	-70.66	-13.00	57.66	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.18	39.75	-47.26	25.07	-77.71	-13.00	64.71	Vertical
2	2119.77	35.71	-45.67	26.56	-78.66	-13.00	65.66	Vertical
3	2826.36	34.12	-44.37	28.77	-76.74	-13.00	63.74	Vertical
4	3532.95	32.53	-43.29	29.71	-76.31	-13.00	63.31	Vertical
5	4239.54	32.39	-42.32	31.68	-73.50	-13.00	60.50	Vertical
6	4946.13	33.35	-41.38	33.08	-70.21	-13.00	57.21	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	0.70	0.000986	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	5.10	0.007183	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	5.50	0.007746	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	3.30	0.004648	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	4.40	0.006197	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	2.80	0.003944	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	6.80	0.009577	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	0.90	0.001268	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	0.80	0.001127	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	4.10	0.005775	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	3.60	0.005070	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	0.30	0.000423	PASS

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