Appendix B.8

LTE Band 17

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Effective (Isotropic) Radiated Power Output Data

Test ResultAnt7

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	23.38	12.58	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.2	12.4	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.25	12.45	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.35	11.55	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.66	12.86	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.4	12.6	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.38	12.58	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.33	11.53	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.32	12.52	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.53	12.73	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.33	12.53	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.36	11.56	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.56	11.76	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.42	11.62	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	22.51	11.71	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.33	10.53	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.37	11.57	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.53	11.73	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	22.47	11.67	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.39	10.59	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	22.54	11.74	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	22.68	11.88	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.64	11.84	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.24	10.44	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	21.57	10.77	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#12	21.62	10.82	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	21.41	10.61	34.77	PASS

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Band17	5MHz	64QAM	23755	25RB#0	20.41	9.61	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	21.53	10.73	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#12	21.57	10.77	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	21.44	10.64	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	20.32	9.52	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	21.54	10.74	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	21.53	10.73	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	21.56	10.76	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	20.38	9.58	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#0	18.52	7.72	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#12	18.56	7.76	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#24	18.4	7.6	34.77	PASS
Band17	5MHz	256QAM	23755	25RB#0	18.36	7.56	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#0	18.67	7.87	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#12	18.48	7.68	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#24	18.67	7.87	34.77	PASS
Band17	5MHz	256QAM	23790	25RB#0	18.28	7.48	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#0	18.43	7.63	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#12	18.44	7.64	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#24	18.51	7.71	34.77	PASS
Band17	5MHz	256QAM	23825	25RB#0	18.49	7.69	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.32	12.52	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.36	12.56	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.4	12.6	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.32	11.52	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.48	12.68	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.4	12.6	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.44	12.64	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.32	11.52	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.75	12.95	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.38	12.58	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.35	12.55	34.77	PASS

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Band17	10MHz	QPSK	23800	50RB#0	22.32	11.52	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	22.51	11.71	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.55	11.75	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.54	11.74	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.39	10.59	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.63	11.83	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.42	11.62	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	22.53	11.73	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.36	10.56	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	22.54	11.74	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	22.6	11.8	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	22.58	11.78	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.24	10.44	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	21.62	10.82	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	21.59	10.79	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	21.54	10.74	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	20.41	9.61	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#0	21.49	10.69	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	21.51	10.71	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	21.67	10.87	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	20.34	9.54	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	21.47	10.67	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	21.57	10.77	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	21.4	10.6	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	20.35	9.55	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#0	18.5	7.7	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#24	18.41	7.61	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#49	18.62	7.82	34.77	PASS
Band17	10MHz	256QAM	23780	50RB#0	18.32	7.52	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#0	18.57	7.77	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#24	18.4	7.6	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#49	18.54	7.74	34.77	PASS

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Band17	10MHz	256QAM	23790	50RB#0	18.46	7.66	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#0	18.63	7.83	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#24	18.65	7.85	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#49	18.39	7.59	34.77	PASS
Band17	10MHz	256QAM	23800	50RB#0	18.44	7.64	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	5.40	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.28	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.34	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.06	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.10	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.04	13	PASS
Band17	10MHz	64QAM	23780	50RB#0	6.30	13	PASS
Band17	10MHz	64QAM	23790	50RB#0	6.30	13	PASS
Band17	10MHz	64QAM	23800	50RB#0	6.36	13	PASS
Band17	10MHz	256QAM	23780	50RB#0	6.28	13	PASS
Band17	10MHz	256QAM	23790	50RB#0	6.32	13	PASS
Band17	10MHz	256QAM	23800	50RB#0	6.28	13	PASS

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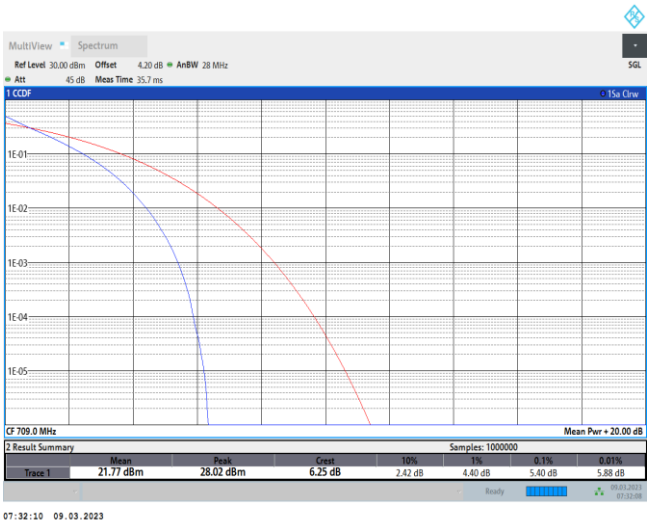
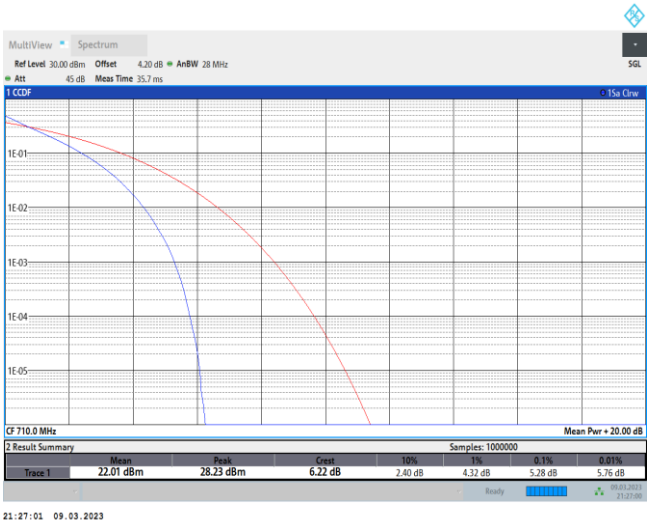
Test Graphs

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



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



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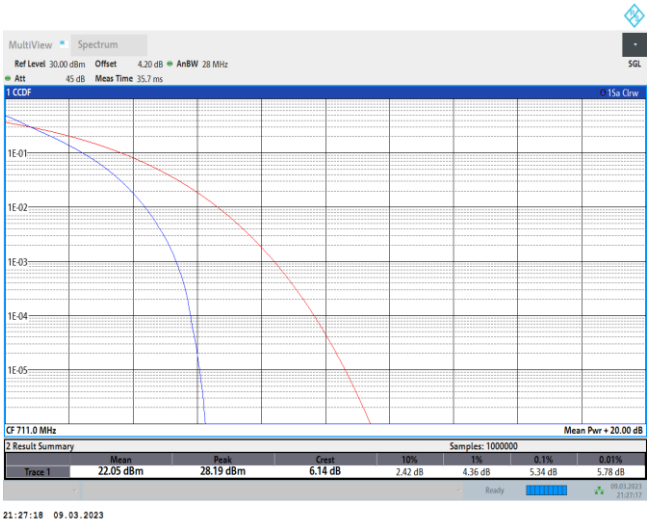
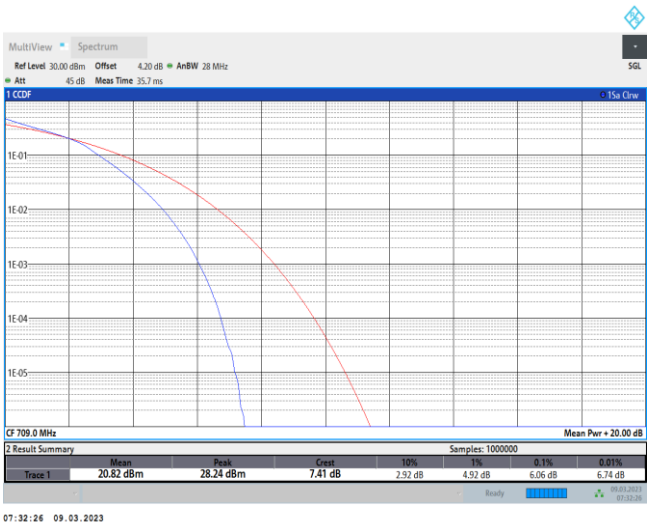
Band17-10MHz-QPSK-23800-50RB#0



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



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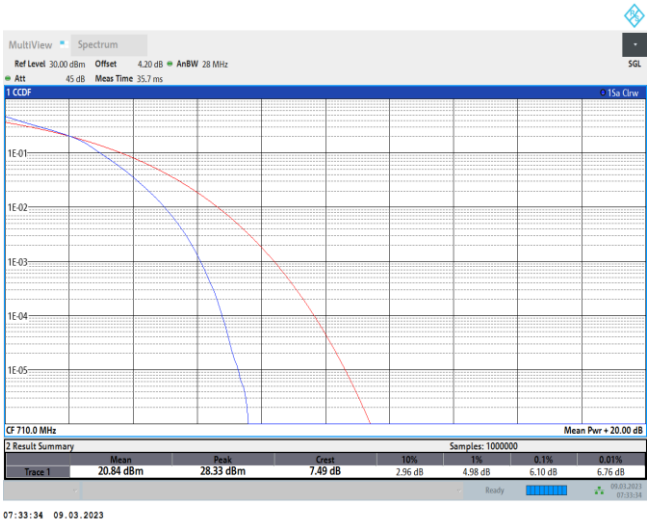
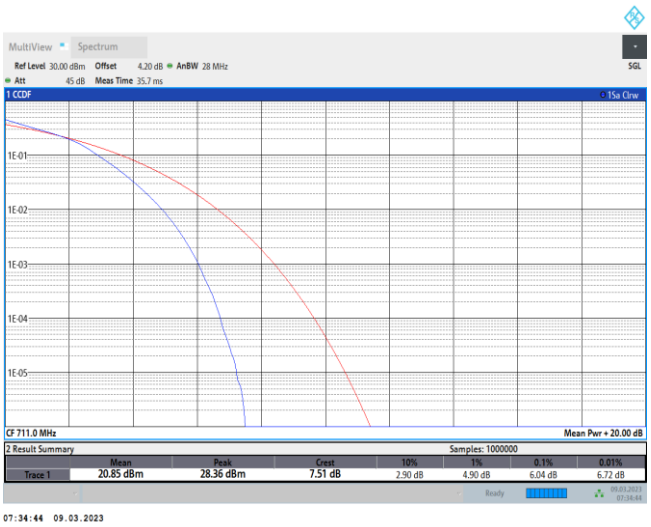
Band17-10MHz-16QAM-23790-50RB#0



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



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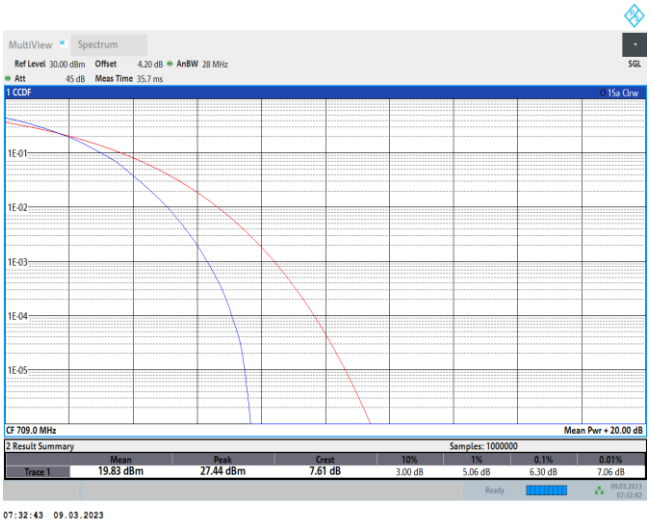
Band17-10MHz-64QAM-23780-50RB#0



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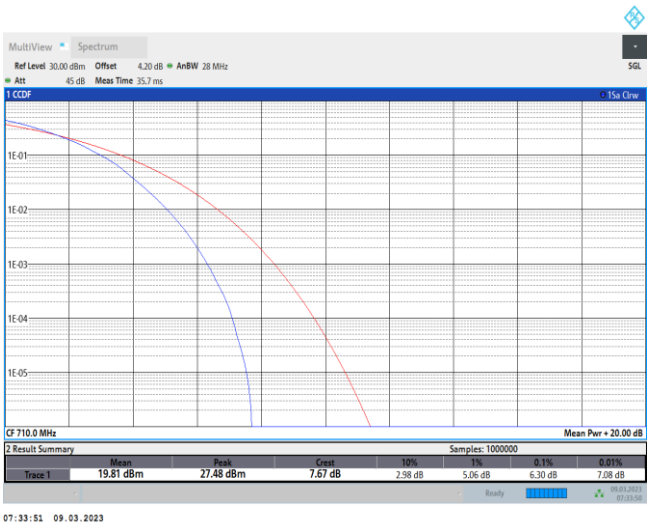

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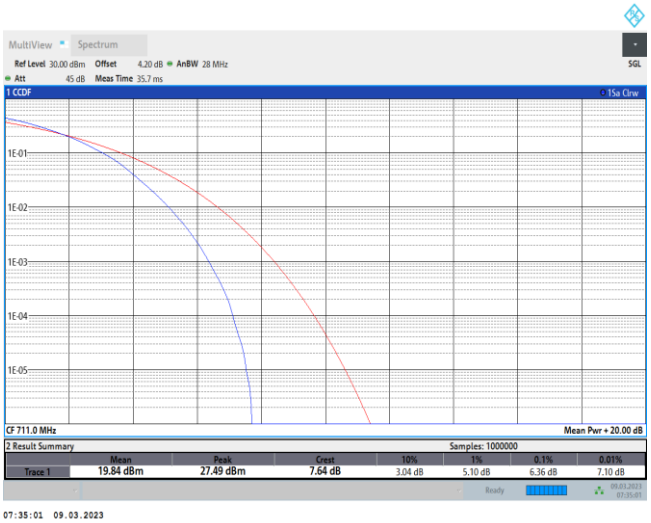
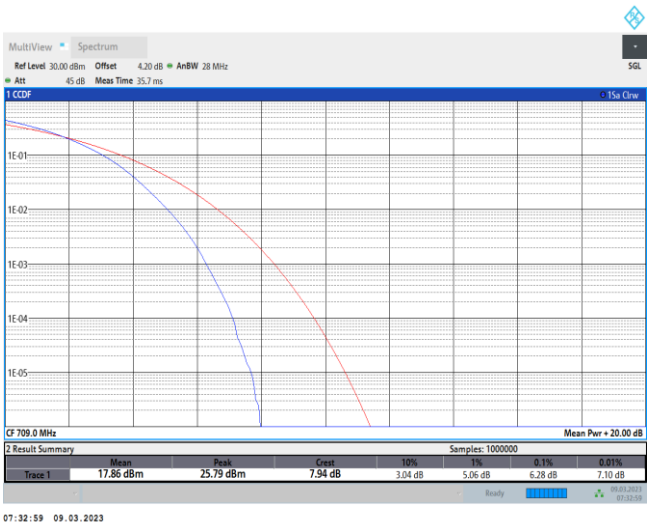
Band17-10MHz-64QAM-23800-50RB#0



Band17-10MHz-256QAM-23780-50RB#0



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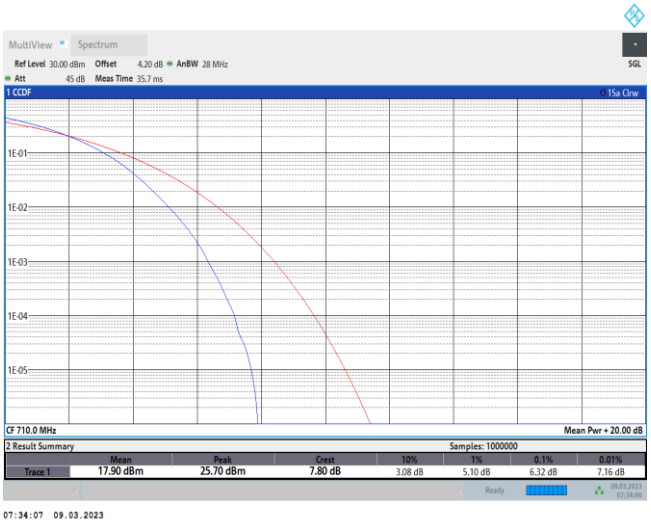

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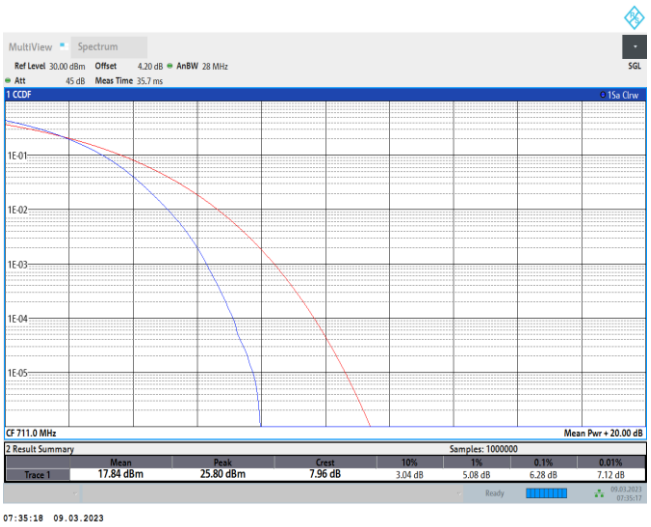

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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.464	5.02	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.465	4.87	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.46	4.85	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.462	4.84	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.461	4.83	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.464	4.84	PASS
Band17	5MHz	64QAM	23755	25RB#0	4.471	4.86	PASS
Band17	5MHz	64QAM	23790	25RB#0	4.468	4.85	PASS
Band17	5MHz	64QAM	23825	25RB#0	4.467	4.84	PASS
Band17	5MHz	256QAM	23755	25RB#0	4.469	4.82	PASS
Band17	5MHz	256QAM	23790	25RB#0	4.467	4.84	PASS
Band17	5MHz	256QAM	23825	25RB#0	4.462	4.84	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.917	9.60	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.926	9.60	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.928	9.67	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.924	9.67	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.913	9.70	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.921	9.67	PASS
Band17	10MHz	64QAM	23780	50RB#0	8.929	9.67	PASS
Band17	10MHz	64QAM	23790	50RB#0	8.932	9.60	PASS
Band17	10MHz	64QAM	23800	50RB#0	8.926	9.60	PASS
Band17	10MHz	256QAM	23780	50RB#0	8.923	9.60	PASS
Band17	10MHz	256QAM	23790	50RB#0	8.922	9.63	PASS
Band17	10MHz	256QAM	23800	50RB#0	8.94	9.60	PASS

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Test Graphs

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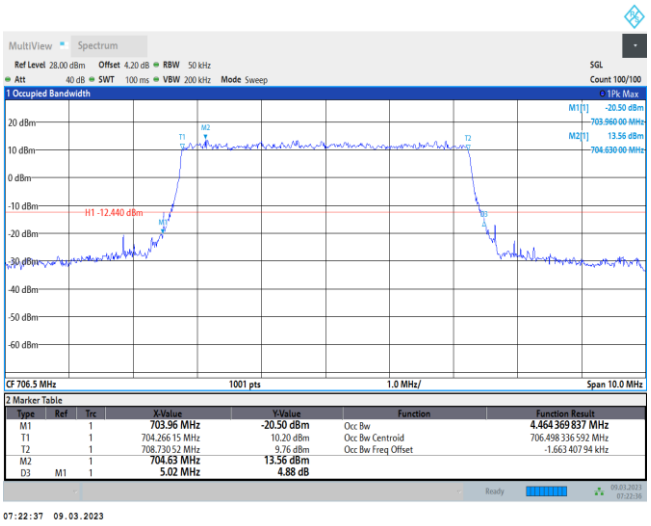

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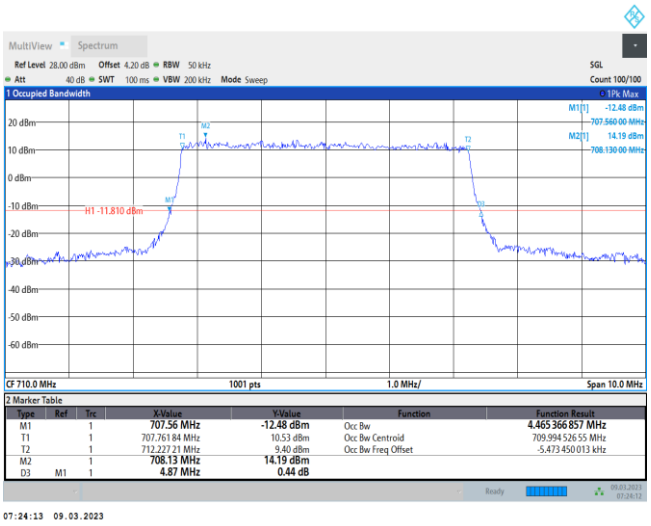

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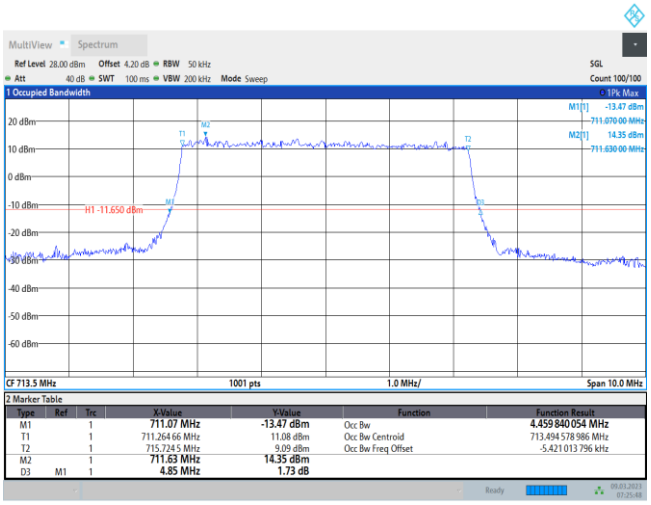

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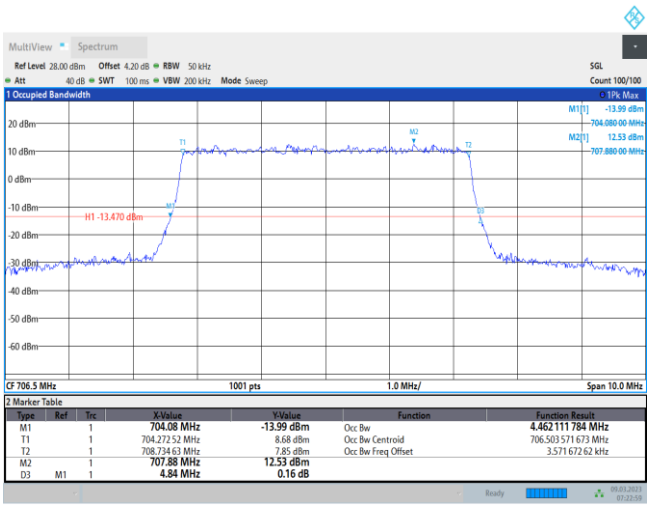

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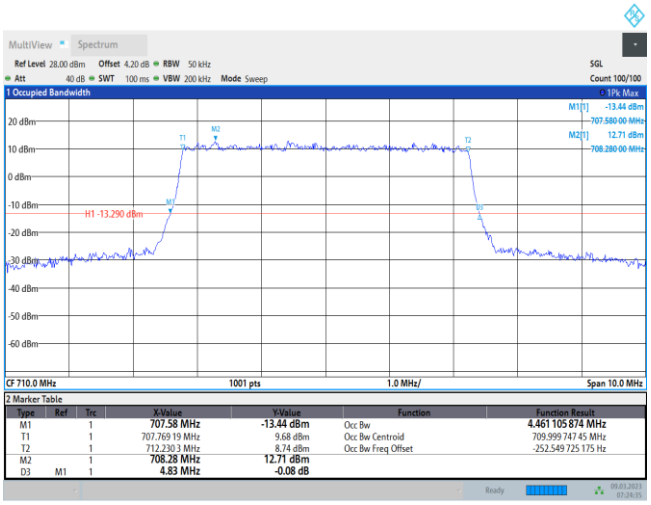

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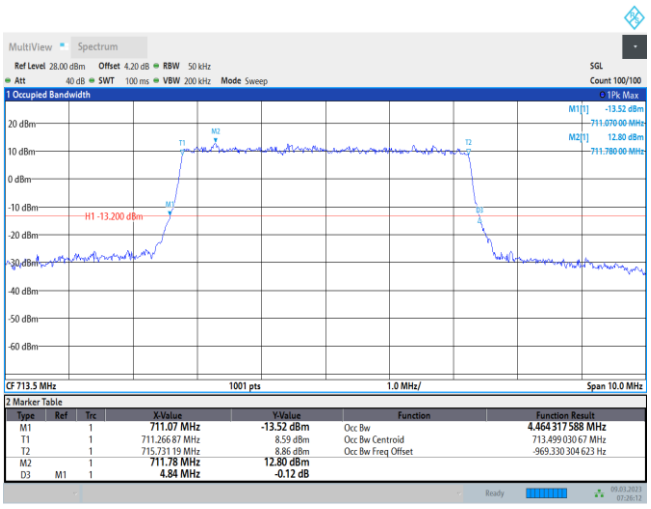

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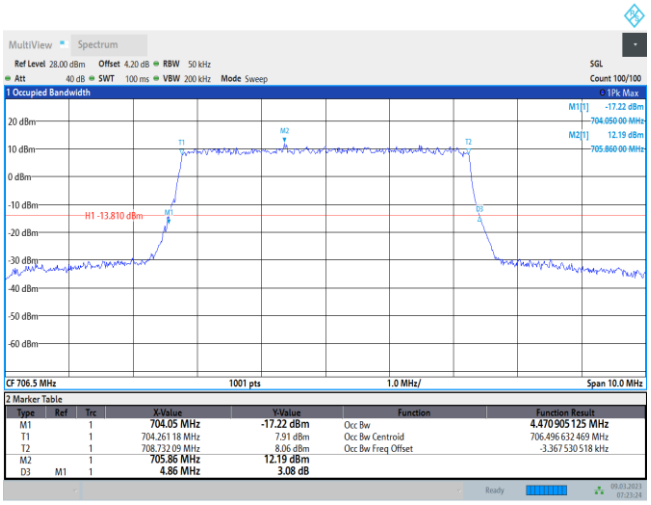

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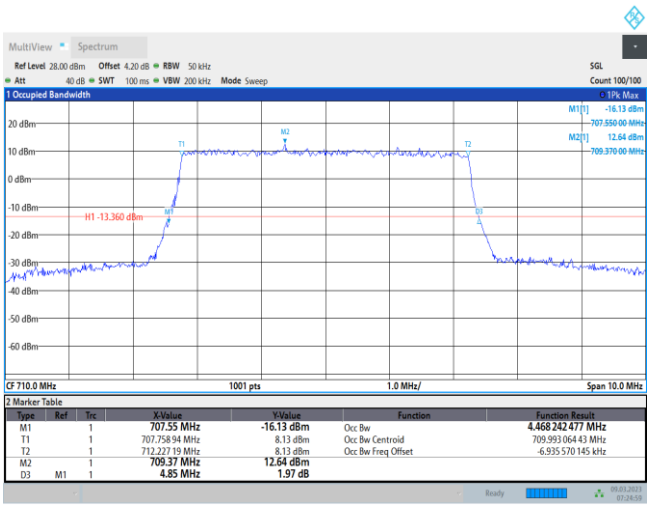

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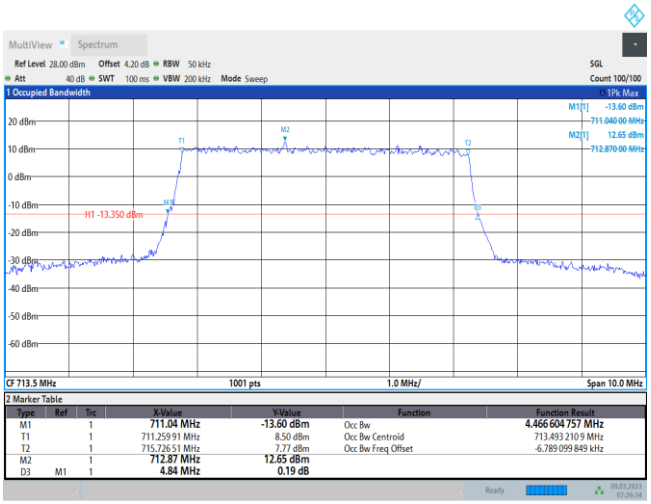

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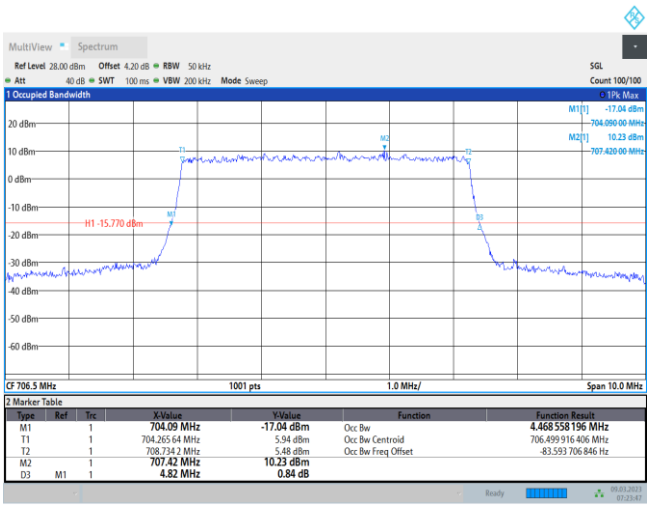

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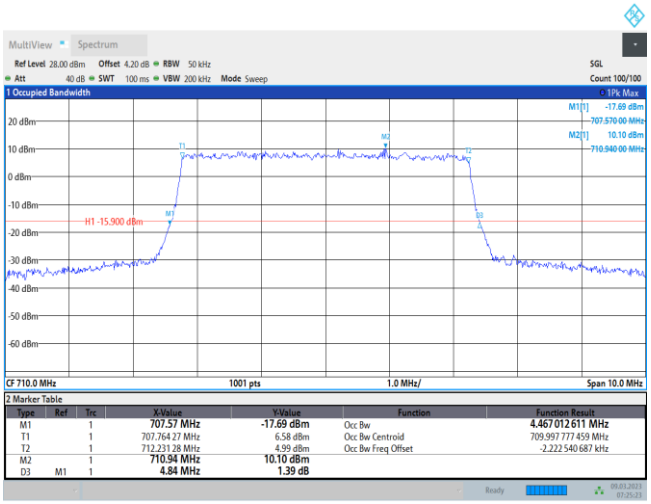
Band17-5MHz-256QAM-23790-25RB#0



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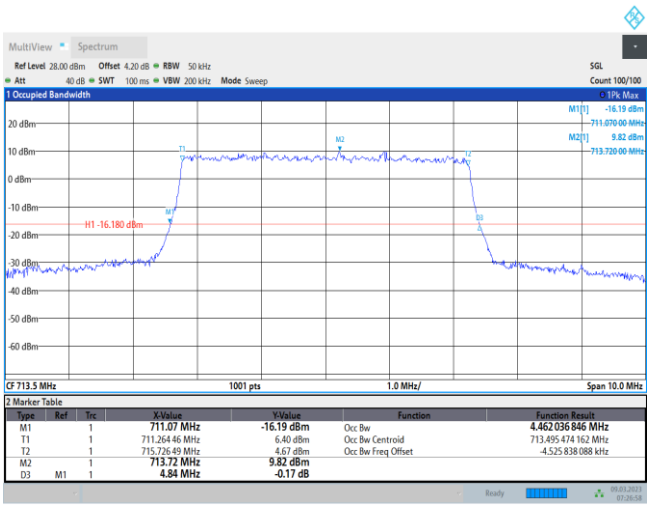

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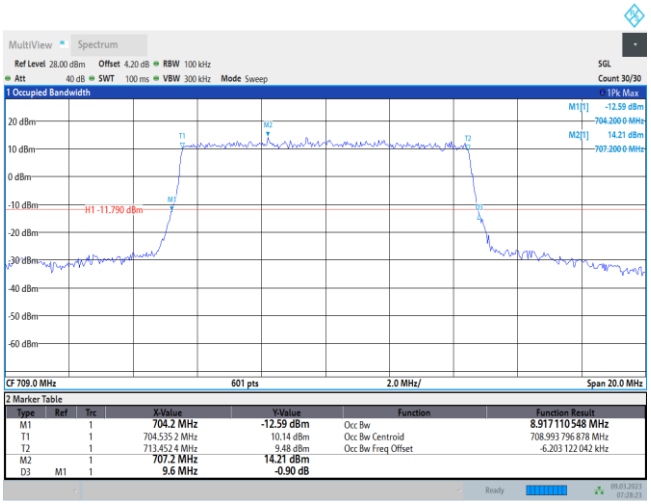
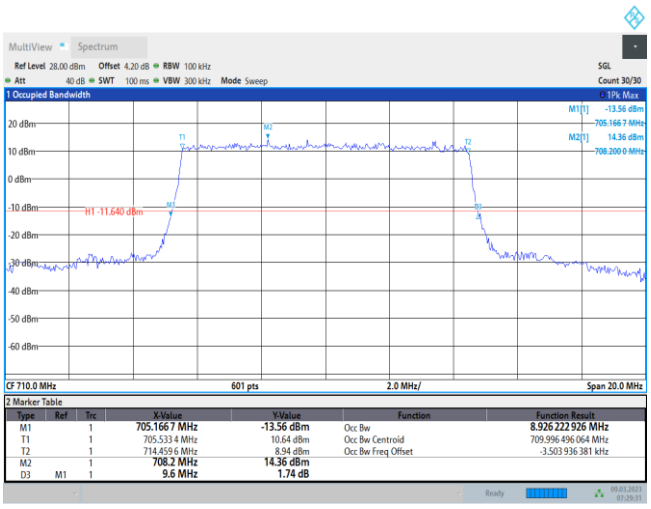
Band17-10MHz-QPSK-23780-50RB#0



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



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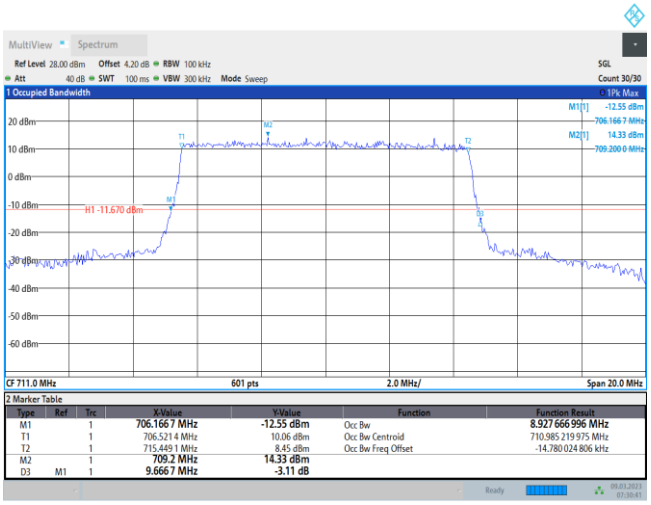
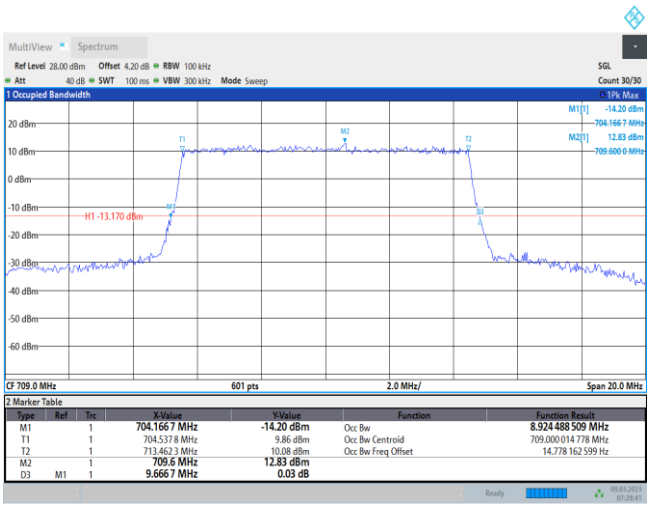
Band17-10MHz-QPSK-23800-50RB#0



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



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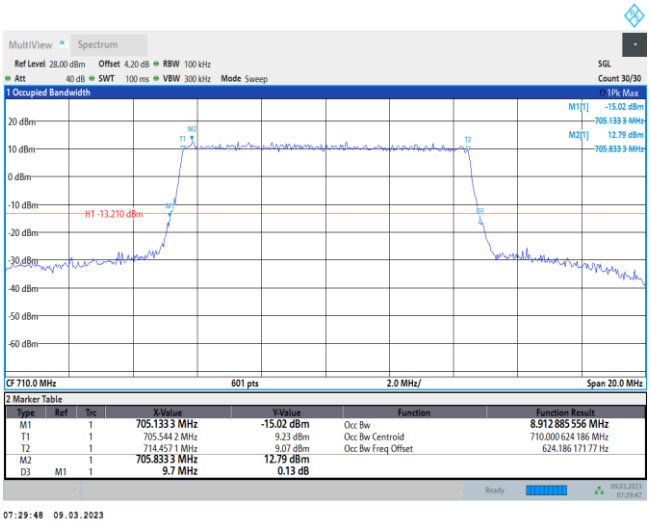
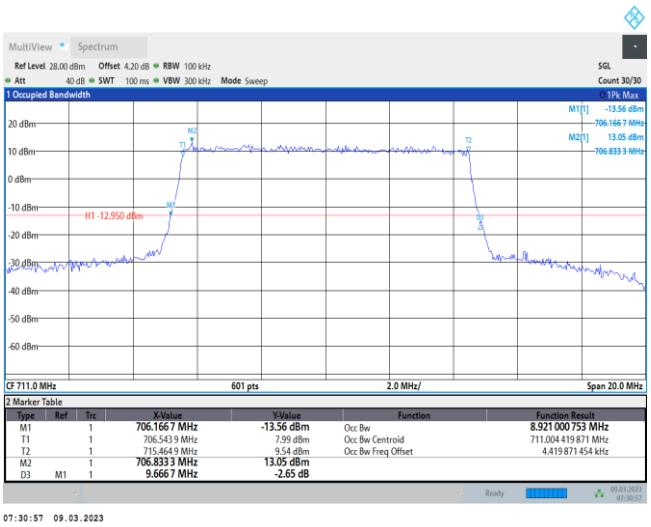
Band17-10MHz-16QAM-23790-50RB#0



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



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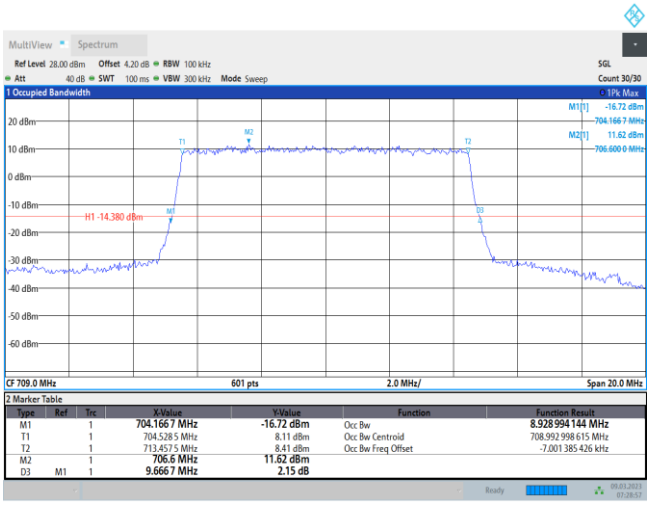
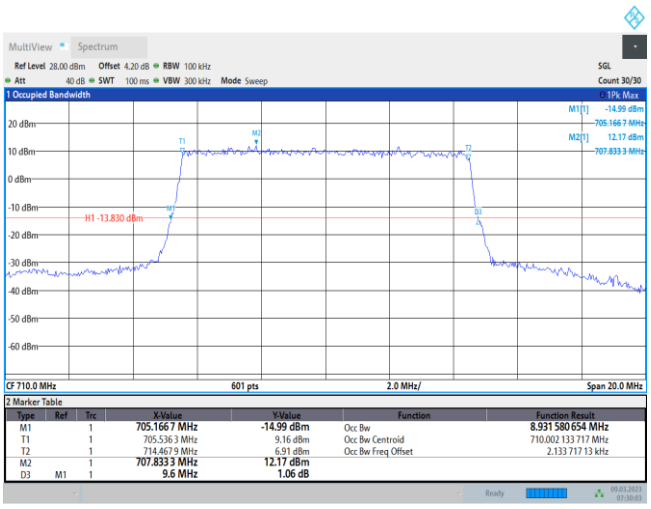
Band17-10MHz-64QAM-23780-50RB#0



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



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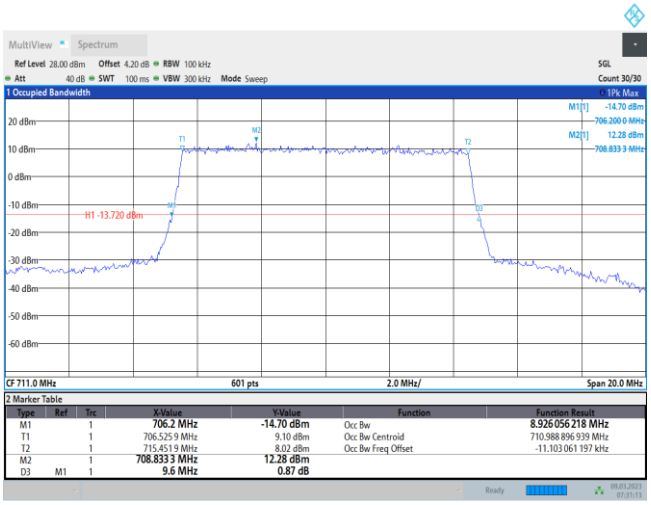
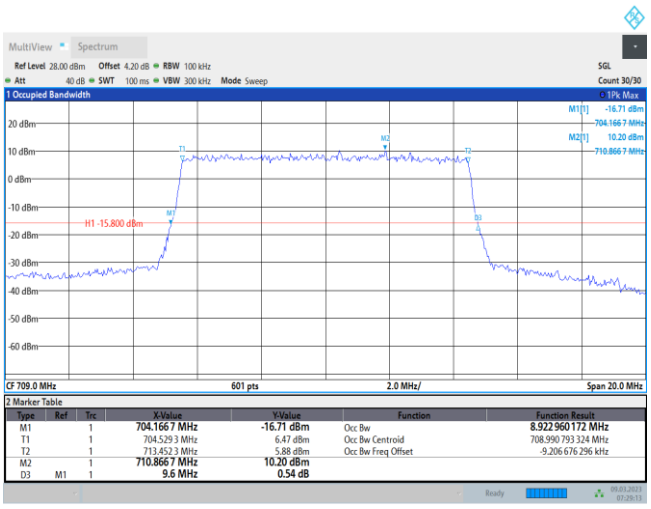
Band17-10MHz-64QAM-23800-50RB#0



Band17-10MHz-256QAM-23780-50RB#0



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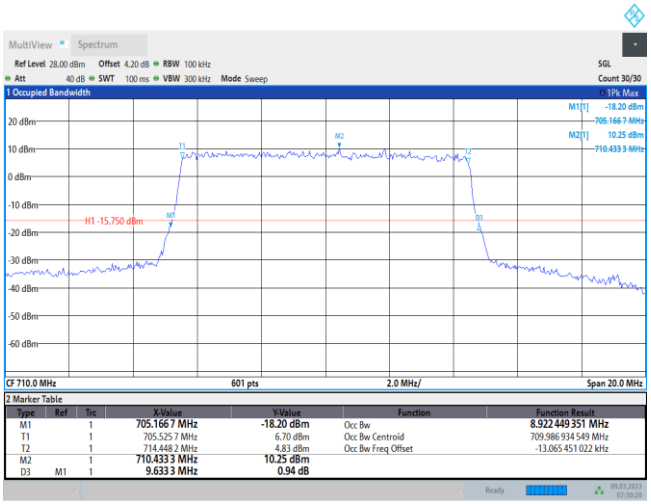
Band17-10MHz-256QAM-23790-50RB#0



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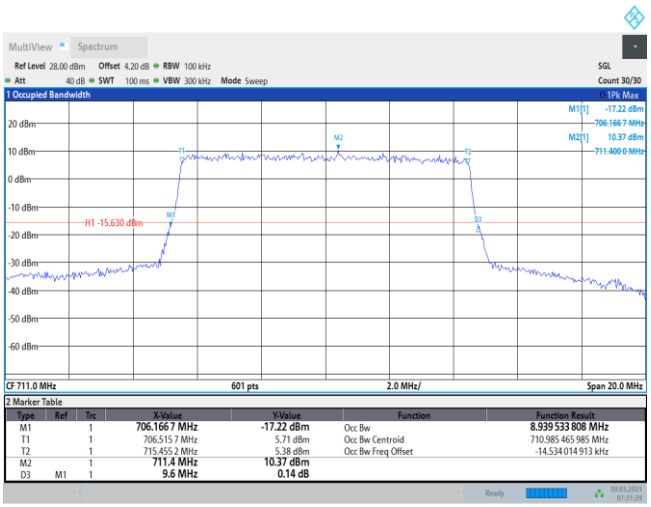
Band17-10MHz-256QAM-23800-50RB#0



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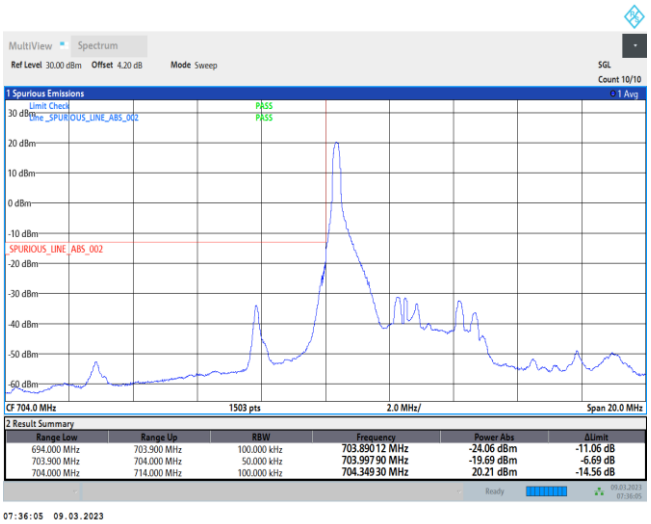
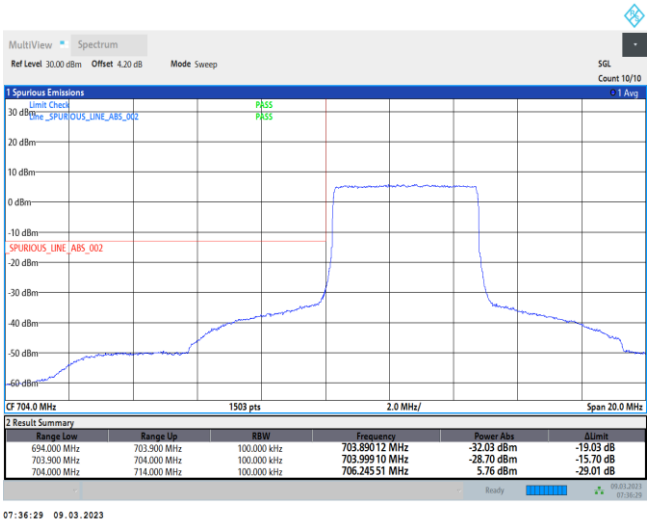
Band Edge

Test Graphs

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



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



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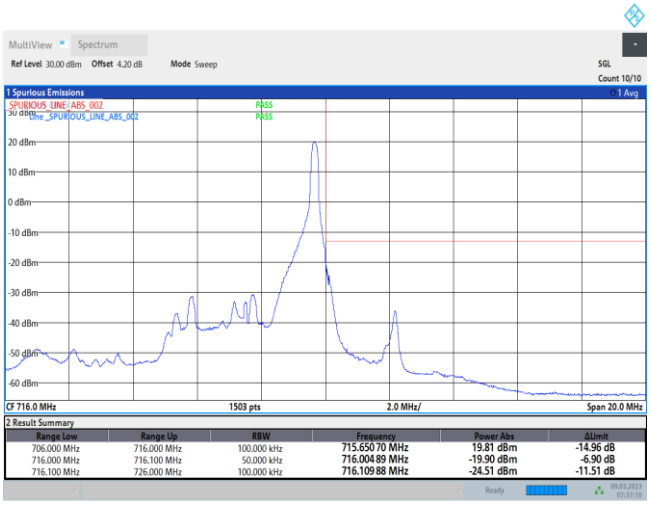
Band17-5MHz-QPSK-23825-1RB#24



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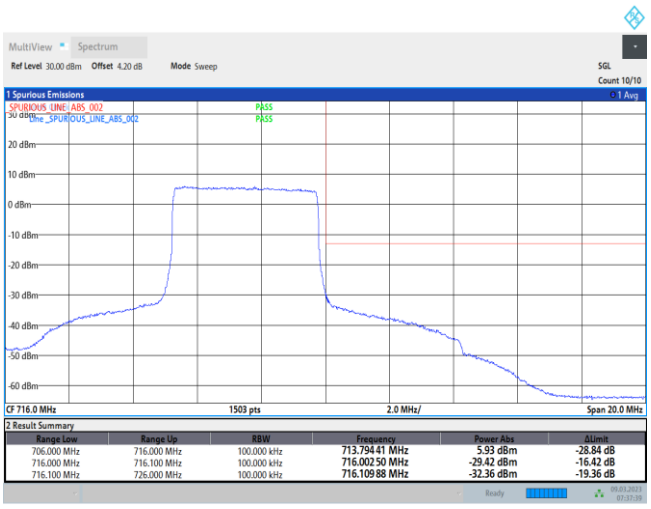

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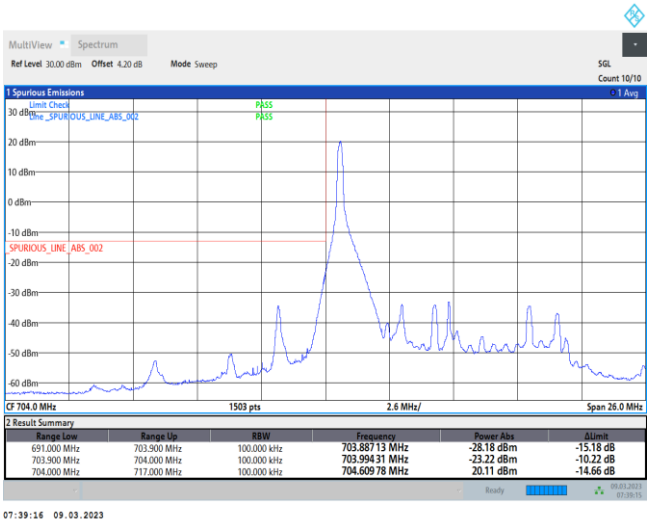
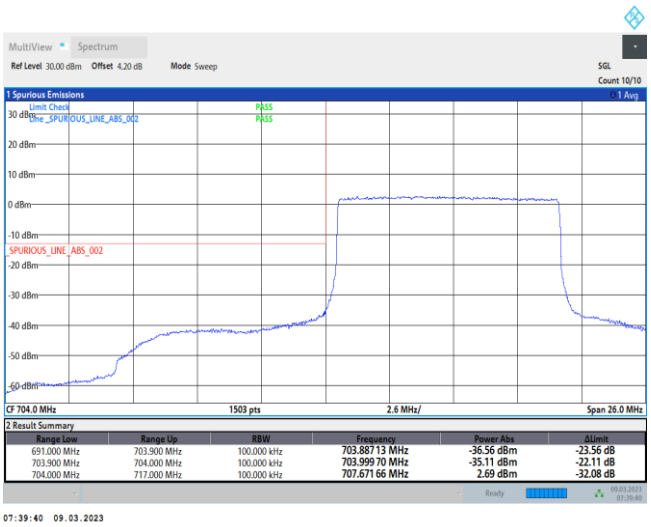
Band17-10MHz-QPSK-23780-1RB#0



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



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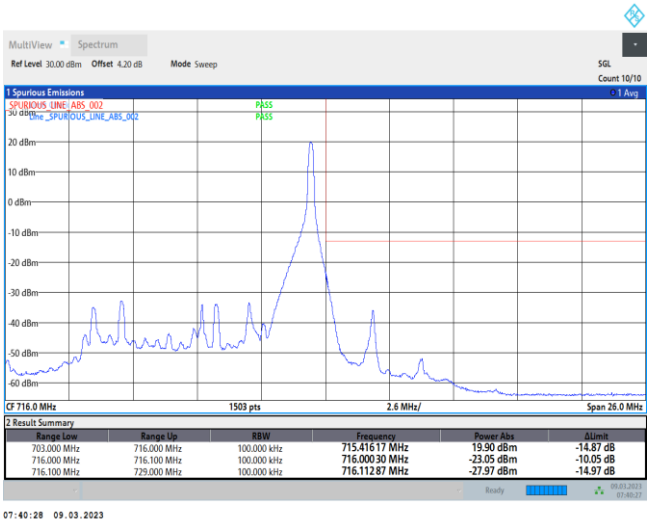
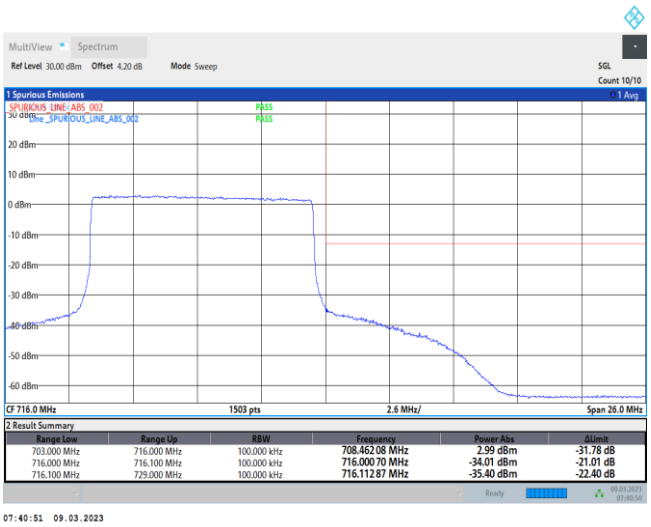
Band17-10MHz-QPSK-23800-1RB#49



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



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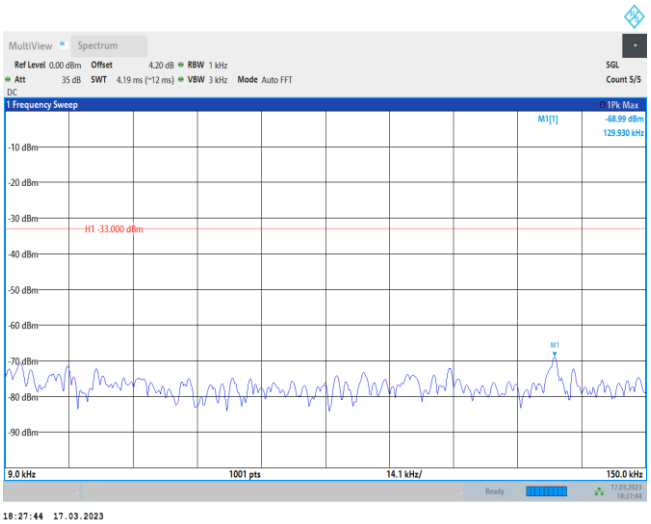
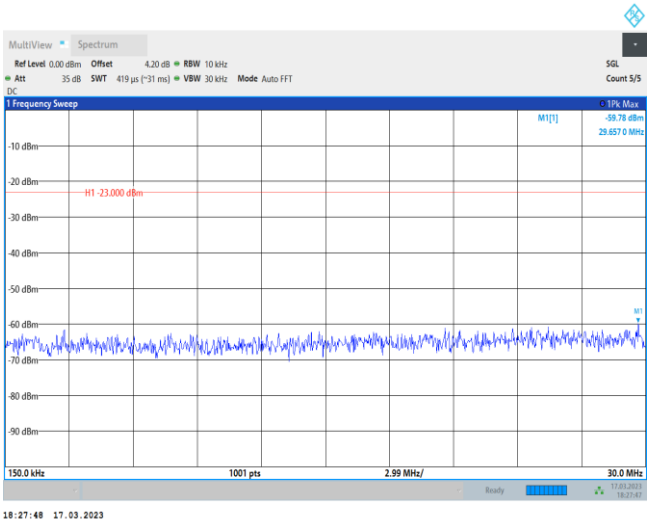
Conducted Spurious Emission

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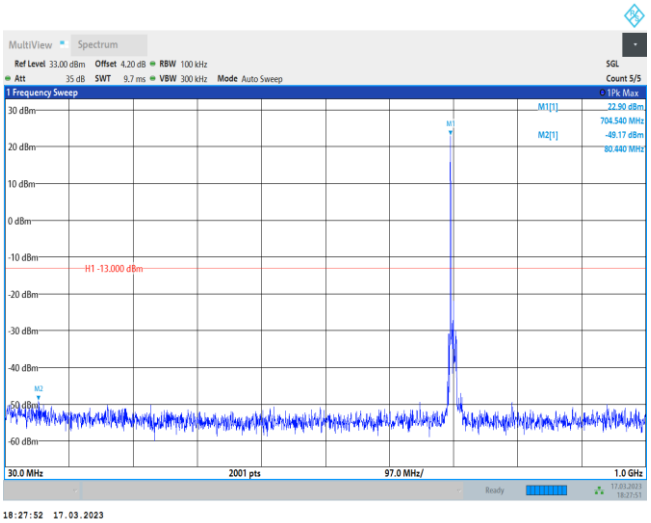
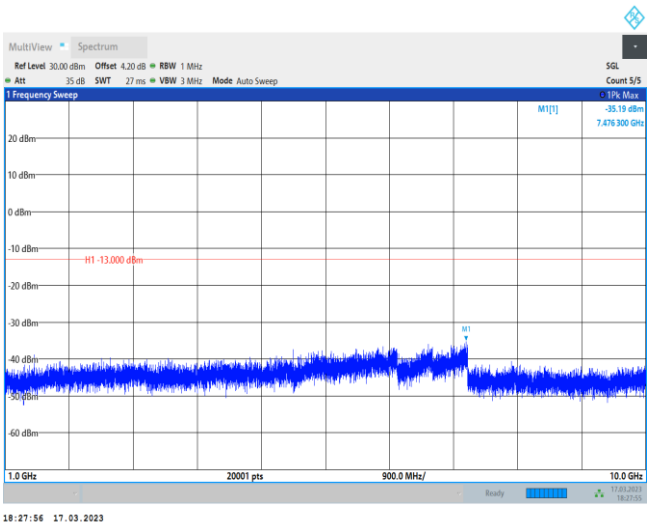
Band17-10MHz-QPSK-23780-1RB#0-Range3:30~1000MHz



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



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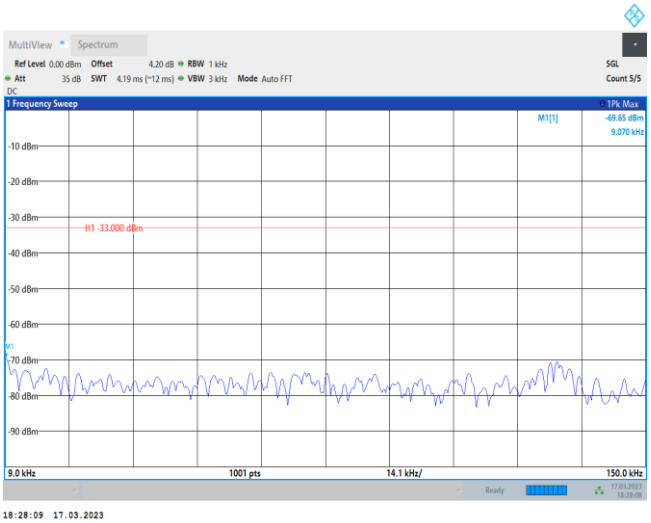
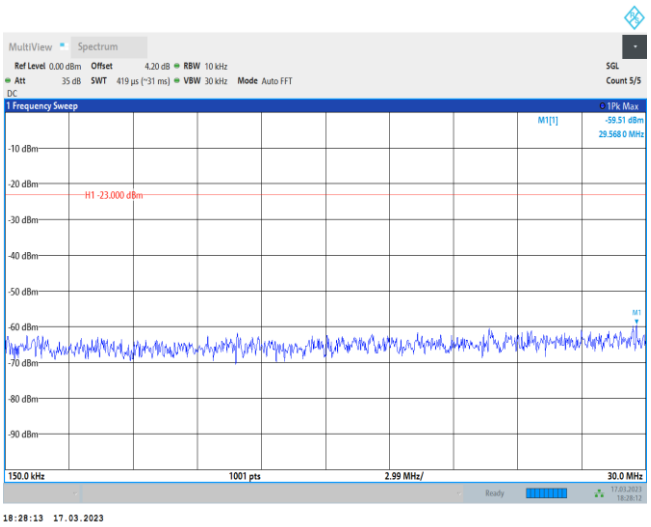
Band17-10MHz-QPSK-23790-1RB#0-Range1:0.009~0.15MHz



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



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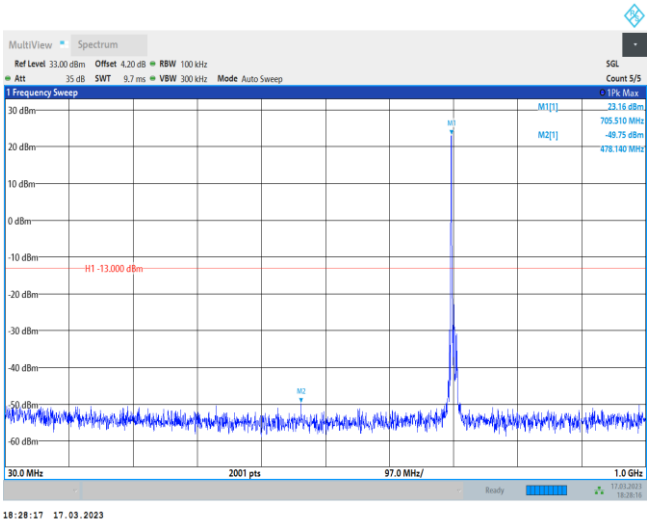
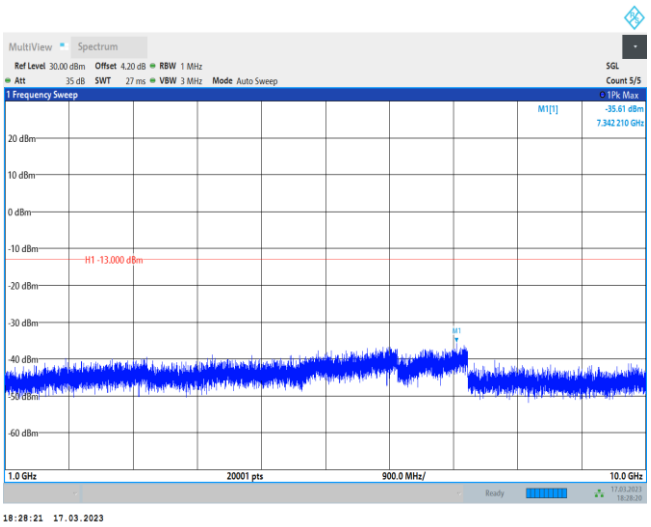
Band17-10MHz-QPSK-23790-1RB#0-Range3:30~1000MHz



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



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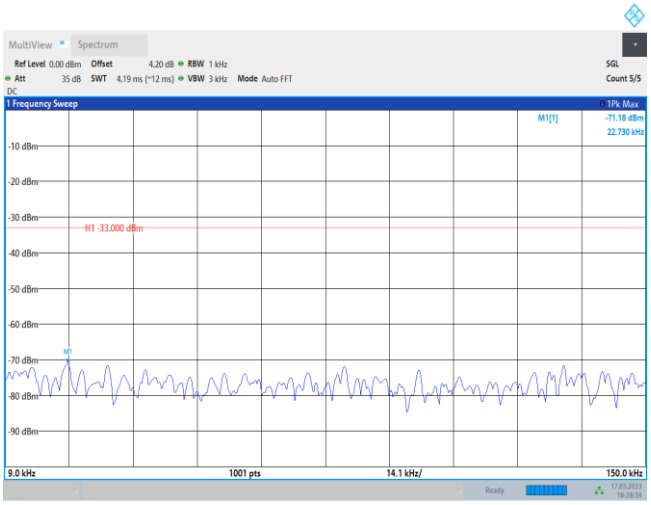
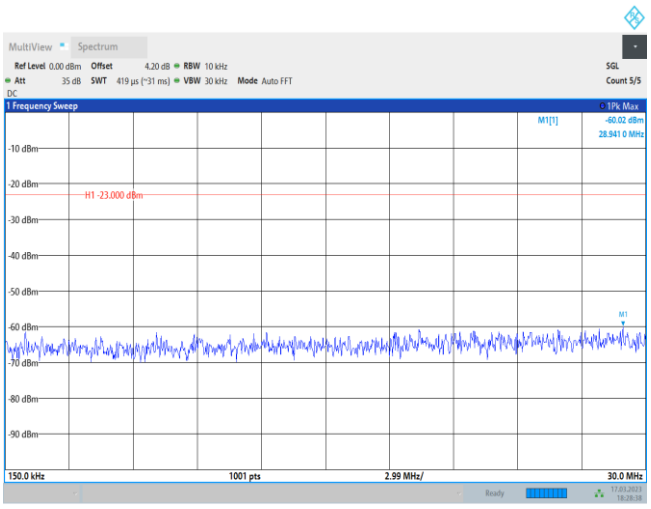
Band17-10MHz-QPSK-23800-1RB#0-Range1:0.009~0.15MHz



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



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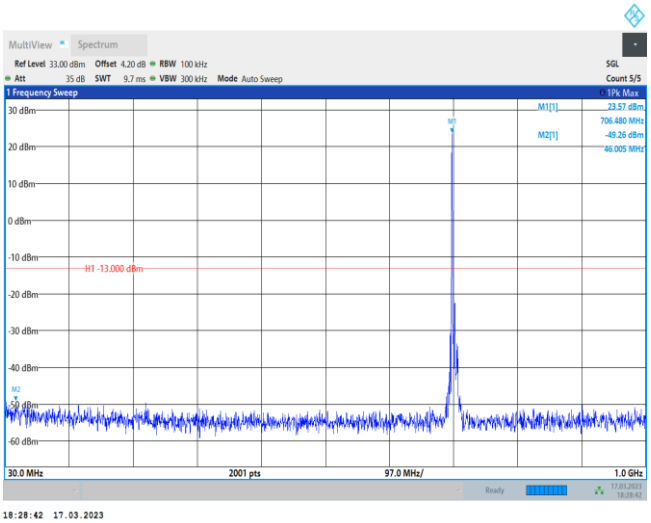
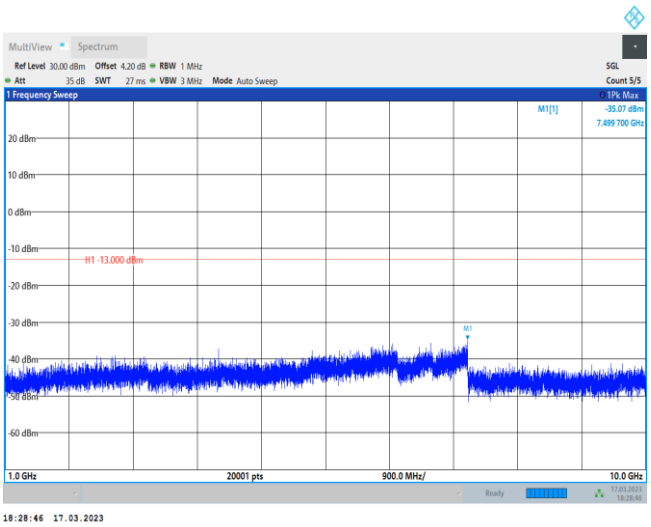
Band17-10MHz-QPSK-23800-1RB#0-Range3:30~1000MHz



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 [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1409.1429	47.70	-48.03	25.61	-69.98	-13.00	56.98	217	250	Horizontal
2	2113.7700	42.32	-47.71	27.04	-73.61	-13.00	60.61	263	4	Horizontal
3	2818.3600	43.27	-46.85	28.56	-70.28	-13.00	57.28	185	350	Horizontal
4	3522.9500	42.08	-46.49	29.54	-70.13	-13.00	57.13	247	302	Horizontal
5	4227.5400	40.62	-45.91	31.16	-69.39	-13.00	56.39	199	144	Horizontal
6	4932.1300	42.19	-45.65	32.69	-66.03	-13.00	53.03	216	360	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1409.1429	50.27	-48.03	25.61	-67.41	-13.00	54.41	174	356	Vertical
2	2113.7700	43.07	-47.71	27.04	-72.86	-13.00	59.86	186	176	Vertical
3	2818.2857	49.23	-46.86	28.56	-64.33	-13.00	51.33	219	190	Vertical
4	3522.9500	42.19	-46.49	29.54	-70.02	-13.00	57.02	203	202	Vertical
5	4218.8571	45.57	-45.93	31.14	-64.48	-13.00	51.48	266	2	Vertical
6	5156	50.67	-45.16	32.97	-56.79	-13.00	43.79	142	243	Vertical

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Test Band = LTE Band 17_10MHz _ TM1
Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1411.1800	47.35	-48.04	25.60	-70.34	-13.00	57.34	175	250	Horizontal
2	2116.7700	43.08	-47.70	27.05	-72.83	-13.00	59.83	251	349	Horizontal
3	2822.3600	42.86	-46.84	28.58	-70.66	-13.00	57.66	179	263	Horizontal
4	3527.9500	42.32	-46.48	29.55	-69.88	-13.00	56.88	236	3	Horizontal
5	4233.5400	41.50	-45.90	31.17	-68.49	-13.00	55.49	229	289	Horizontal
6	4939.1300	41.57	-45.67	32.71	-66.65	-13.00	53.65	168	170	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1411.1800	49.12	-48.04	25.60	-68.57	-13.00	55.57	185	2	Vertical
2	2116.7700	43.21	-47.70	27.05	-72.70	-13.00	59.70	229	18	Vertical
3	2822.3600	45.77	-46.84	28.58	-67.75	-13.00	54.75	296	202	Vertical
4	3527.9500	42.49	-46.48	29.55	-69.71	-13.00	56.71	271	11	Vertical
5	4233.5400	41.21	-45.90	31.17	-68.78	-13.00	55.78	156	1	Vertical
6	4939.1300	41.78	-45.67	32.71	-66.44	-13.00	53.44	132	31	Vertical

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Test Band = LTE Band 17_10MHz _ TM1
Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.1800	44.48	-48.04	25.60	-73.22	-13.00	60.22	148	248	Horizontal
2	2119.7700	42.60	-47.70	27.06	-73.30	-13.00	60.30	256	360	Horizontal
3	2826.3600	43.09	-46.83	28.60	-70.40	-13.00	57.40	229	38	Horizontal
4	3532.9500	42.30	-46.47	29.55	-69.88	-13.00	56.88	135	91	Horizontal
5	4239.5400	41.50	-45.89	31.18	-68.47	-13.00	55.47	287	104	Horizontal
6	4946.1300	41.50	-45.69	32.73	-66.72	-13.00	53.72	213	25	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.1800	46.75	-48.04	25.60	-70.95	-13.00	57.95	158	4	Vertical
2	2119.7700	43.76	-47.70	27.06	-72.14	-13.00	59.14	331	254	Vertical
3	2826.3600	45.07	-46.83	28.60	-68.42	-13.00	55.42	256	175	Vertical
4	3532.9500	42.46	-46.47	29.55	-69.72	-13.00	56.72	247	267	Vertical
5	4239.5400	41.71	-45.89	31.18	-68.26	-13.00	55.26	189	2	Vertical
6	4946.1300	41.71	-45.69	32.73	-66.51	-13.00	53.51	171	346	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 (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	-3.50	-0.004930	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	-0.80	-0.001127	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	-2.70	-0.003803	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	-1.50	-0.002113	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	-0.50	-0.000704	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	-3.30	-0.004648	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	-4.20	-0.005915	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	-3.90	-0.005493	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	-3.60	-0.005070	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	-4.30	-0.006056	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	-5.20	-0.007324	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	-3.20	-0.004507	PASS

---End of Attachment---

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