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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	23.32	16.20	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.57	16.45	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.31	16.19	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.55	15.43	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.31	16.19	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.61	16.49	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.28	16.16	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.54	15.42	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.27	16.15	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.63	16.51	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.33	16.21	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.55	15.43	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.70	15.58	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.94	15.82	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	22.56	15.44	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.57	14.45	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.67	15.55	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.95	15.83	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	22.68	15.56	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.53	14.41	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	22.68	15.56	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	22.89	15.77	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.59	15.47	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.58	14.46	34.77	PASS



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Band17	5MHz	64QAM	23755	1RB#0	21.55	14.43	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#12	21.81	14.69	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	21.65	14.53	34.77	PASS
Band17	5MHz	64QAM	23755	25RB#0	20.53	13.41	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	21.55	14.43	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#12	21.85	14.73	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	21.56	14.44	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	20.53	13.41	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	21.63	14.51	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	21.89	14.77	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	21.61	14.49	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	20.56	13.44	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.43	16.31	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.52	16.40	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.45	16.33	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.57	15.45	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.39	16.27	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.52	16.40	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.44	16.32	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.56	15.44	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.37	16.25	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.55	16.43	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.45	16.33	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.62	15.50	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	22.69	15.57	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.83	15.71	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.75	15.63	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.57	14.45	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.68	15.56	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.82	15.70	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	22.78	15.66	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.57	14.45	34.77	PASS



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Band17	10MHz	16QAM	23800	1RB#24	22.75	15.63	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	22.79	15.67	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.59	14.47	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	21.63	14.51	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	21.77	14.65	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	21.72	14.60	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	20.54	13.42	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#0	21.72	14.60	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	21.79	14.67	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	21.65	14.53	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	20.56	13.44	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	21.69	14.57	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	21.82	14.70	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	21.70	14.58	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	20.58	13.46	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	5.28	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.28	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.18	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	6.00	13	PASS
Band17	10MHz	64QAM	23780	50RB#0	6.46	13	PASS
Band17	10MHz	64QAM	23790	50RB#0	6.50	13	PASS
Band17	10MHz	64QAM	23800	50RB#0	6.48	13	PASS



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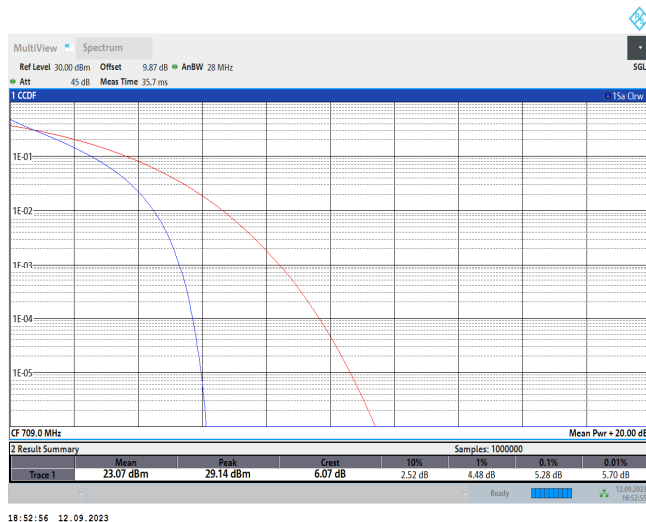
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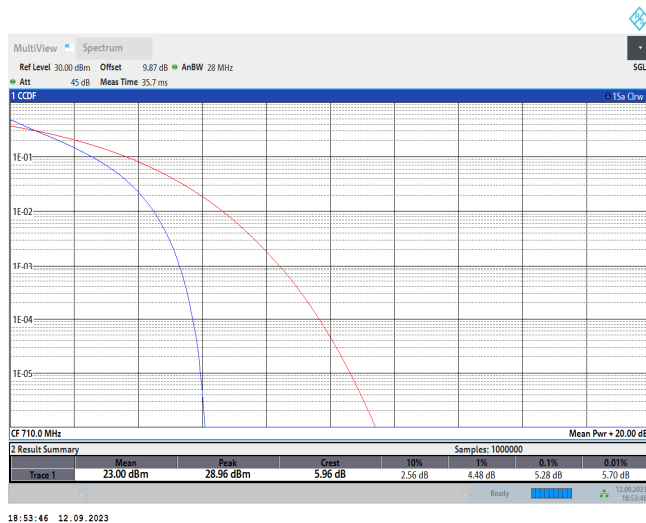
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Test Graphs

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



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



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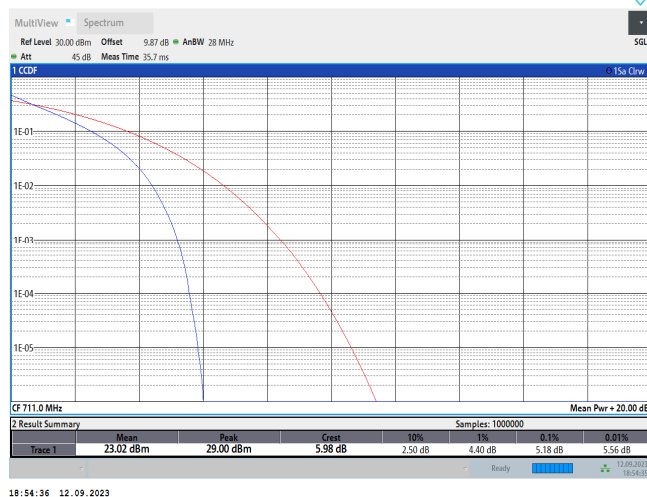
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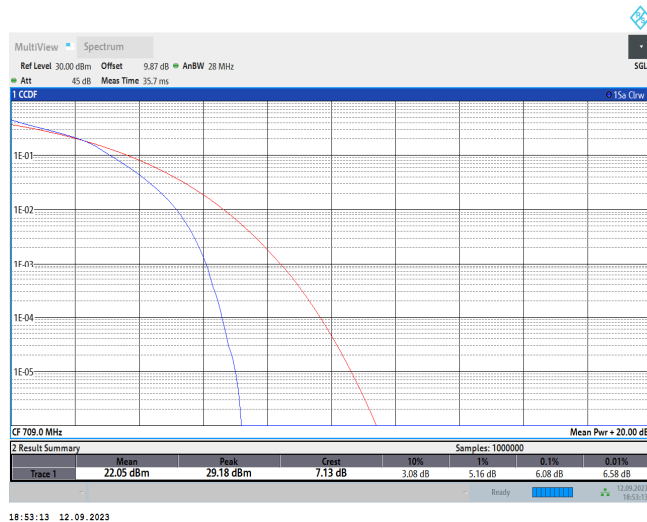
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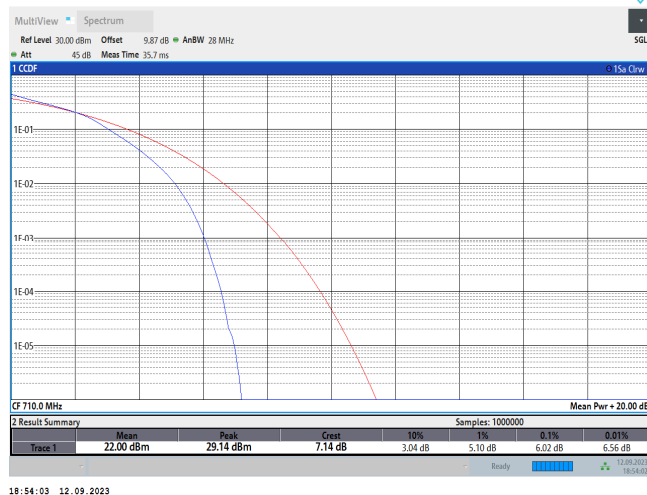
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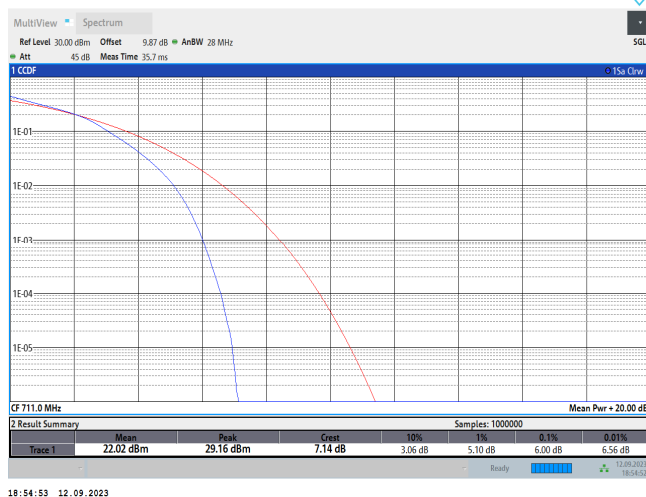
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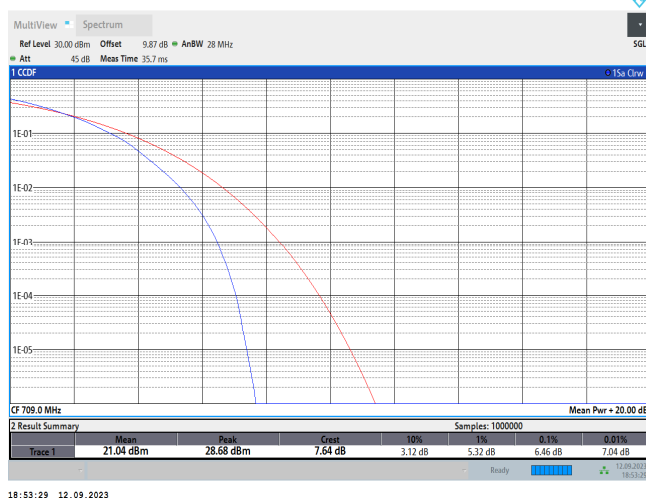
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18:54:53 12.09.2023

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



18:53:29 12.09.2023



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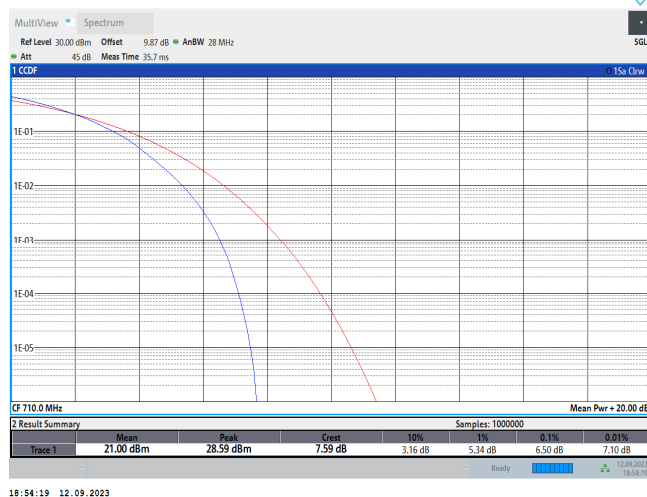
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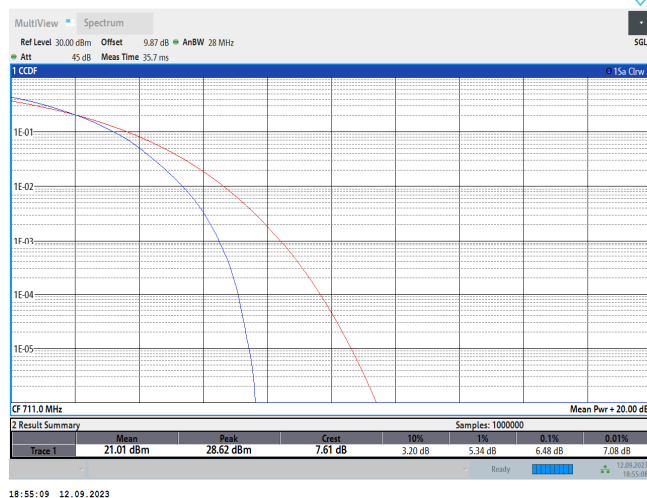
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Band17-10MHz-64QAM-23790-50RB#0



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	23755	25RB#0	4.476	5.04	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.472	5.01	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.474	5.02	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.472	5.06	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.468	5.04	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.472	5.05	PASS
Band17	5MHz	64QAM	23755	25RB#0	4.483	5.07	PASS
Band17	5MHz	64QAM	23790	25RB#0	4.483	5.04	PASS
Band17	5MHz	64QAM	23825	25RB#0	4.489	5.07	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.954	9.97	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.955	9.87	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.958	10.00	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.925	9.80	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.934	10.07	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.943	10.33	PASS
Band17	10MHz	64QAM	23780	50RB#0	8.934	9.83	PASS
Band17	10MHz	64QAM	23790	50RB#0	8.952	9.87	PASS
Band17	10MHz	64QAM	23800	50RB#0	8.926	9.90	PASS



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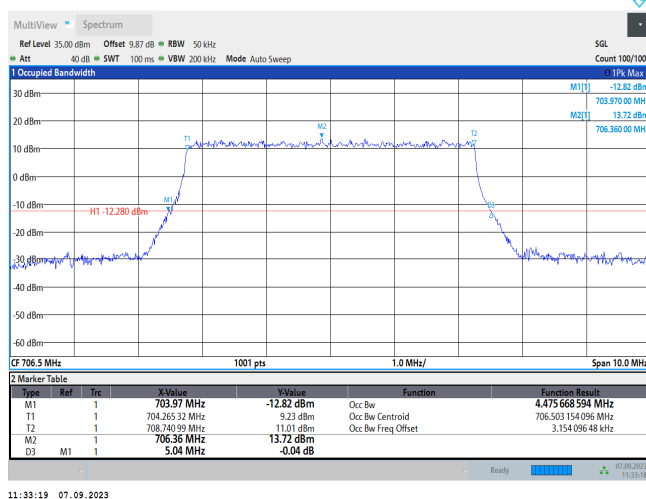
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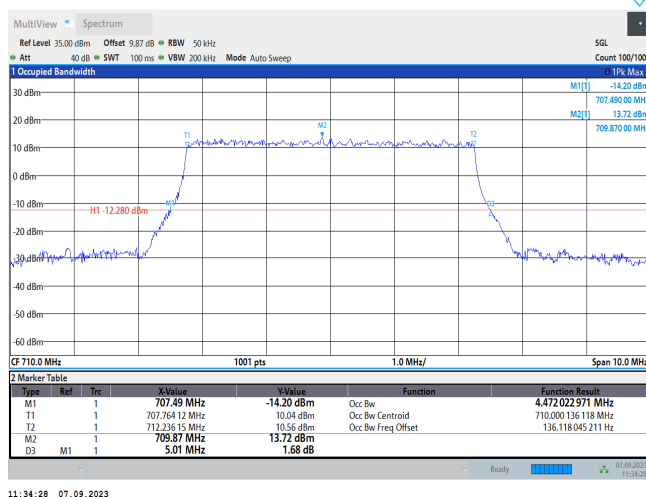
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Test Graphs

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



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



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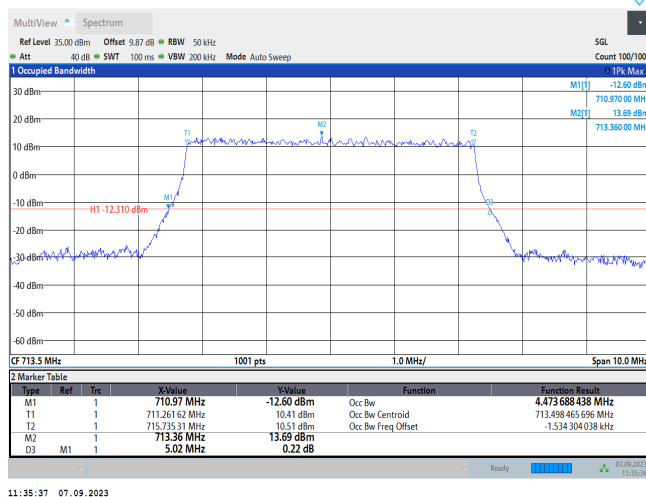
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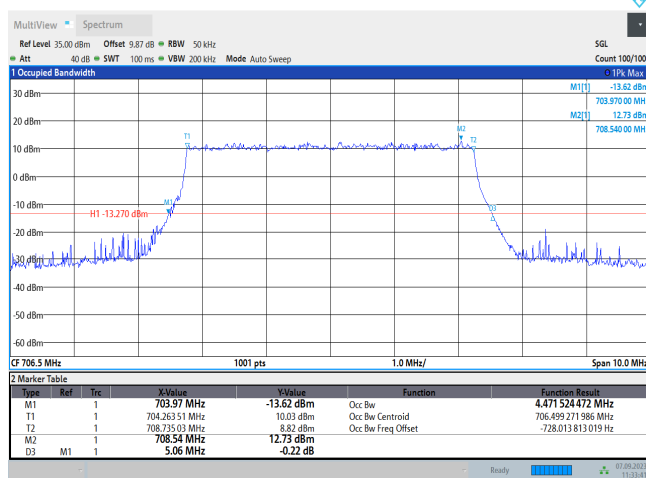
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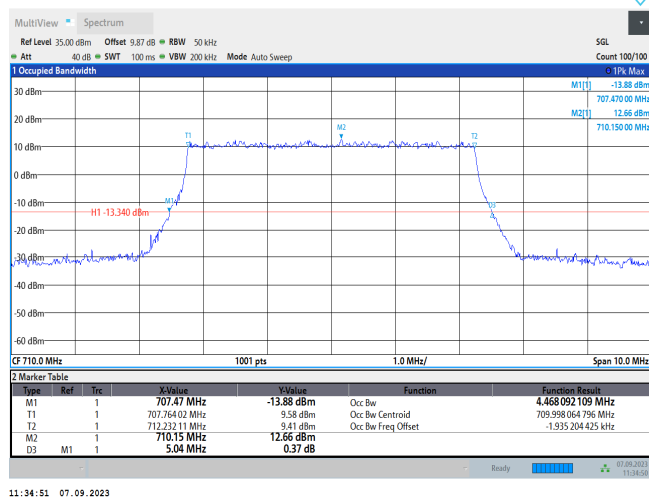
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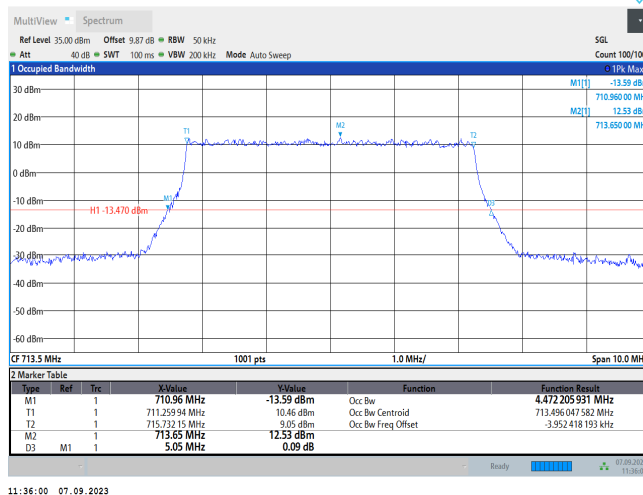
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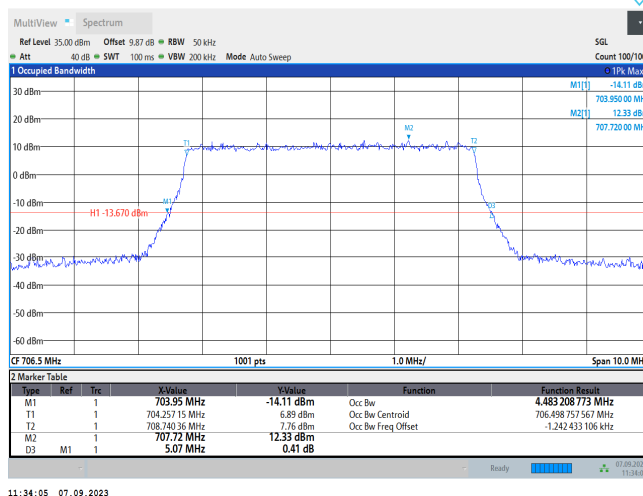
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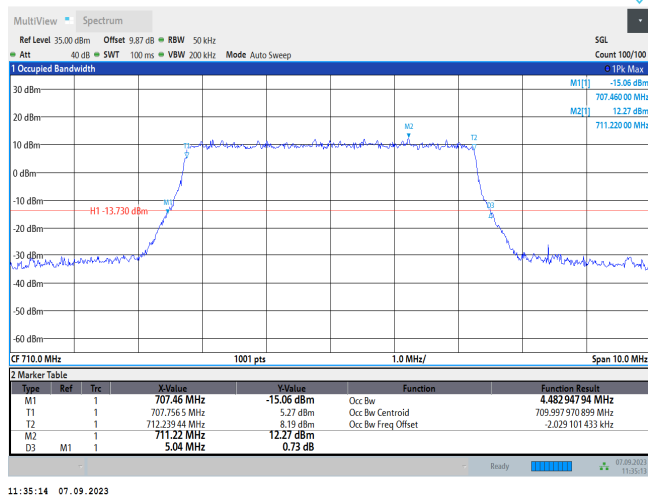
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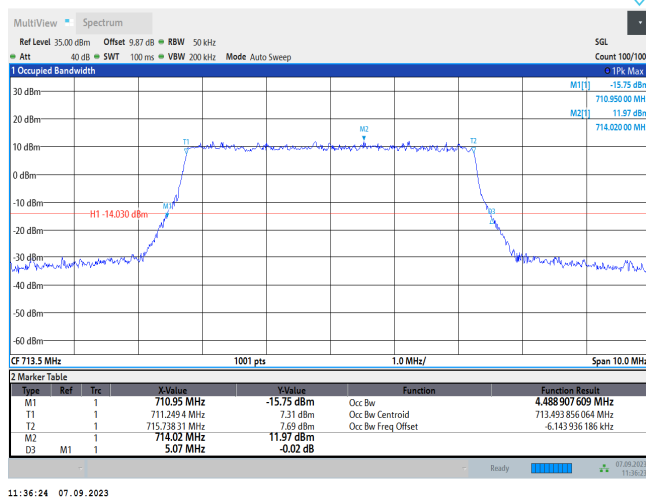
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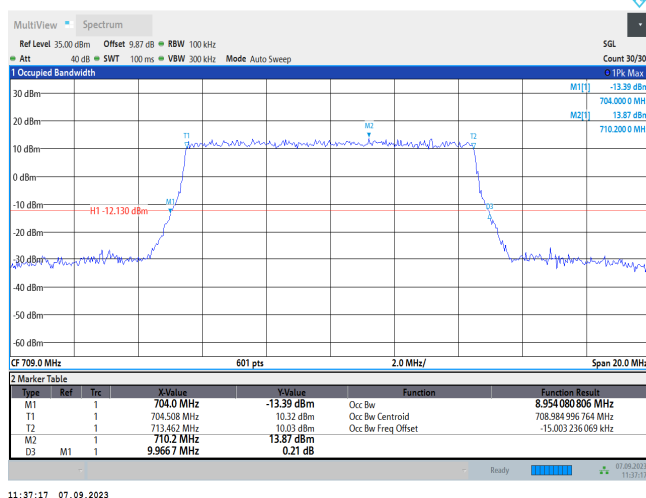
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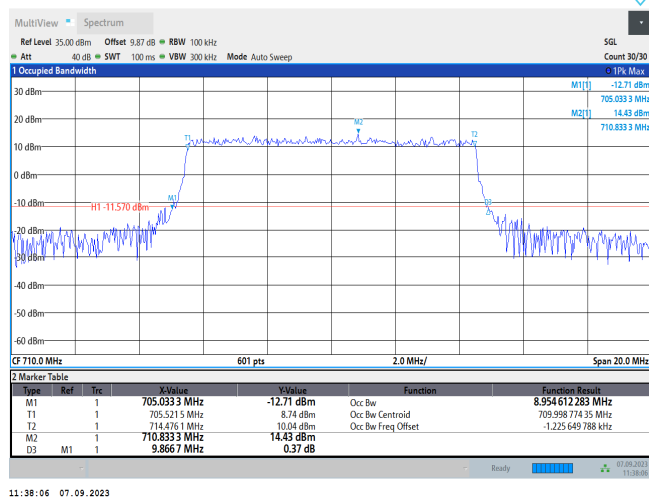
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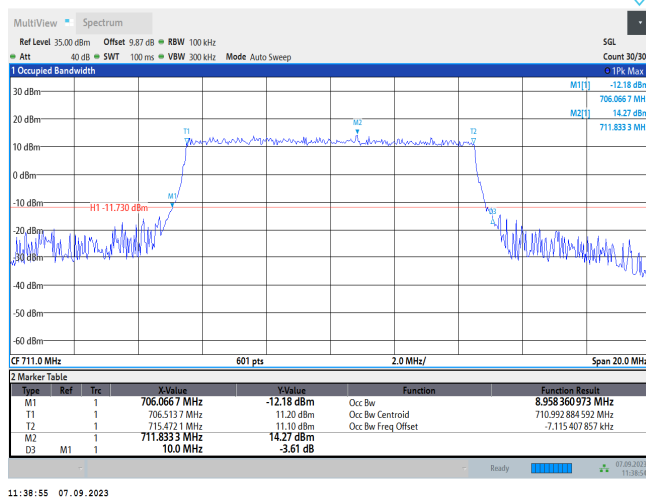
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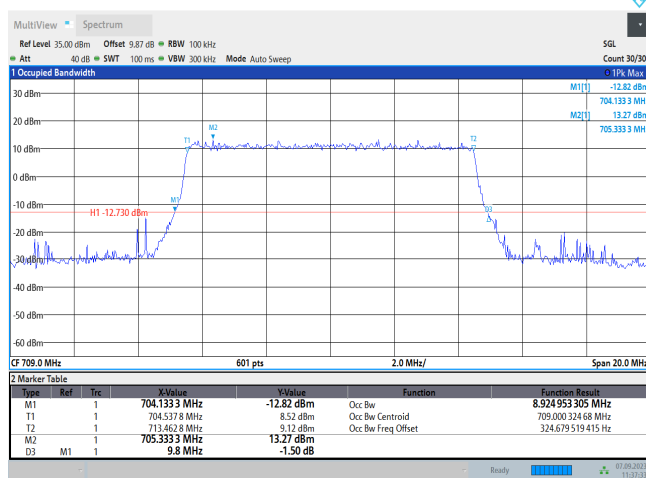
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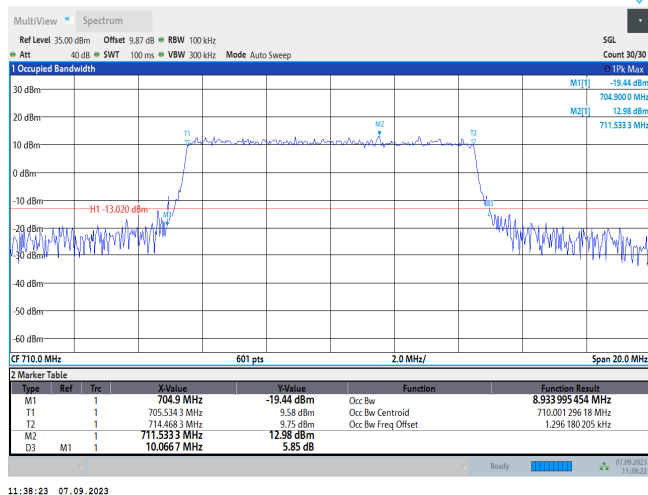
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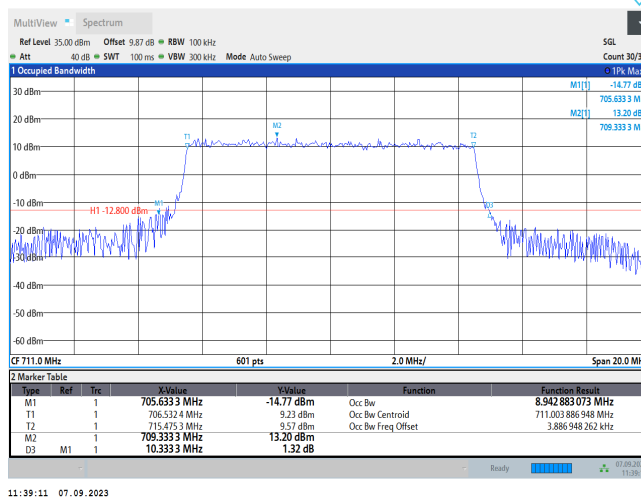
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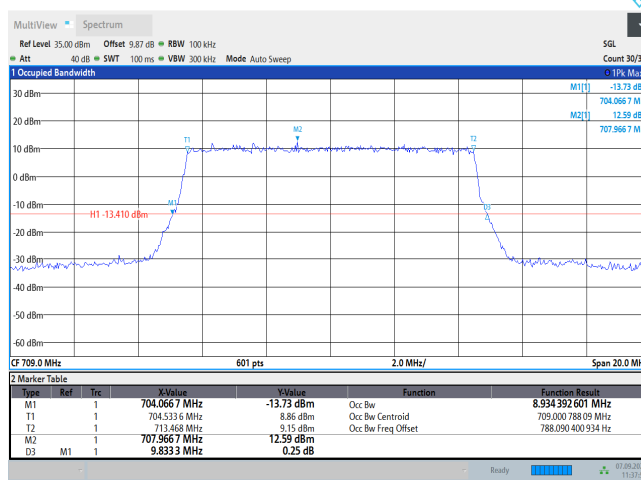
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Band17-10MHz-64QAM-23780-50RB#0



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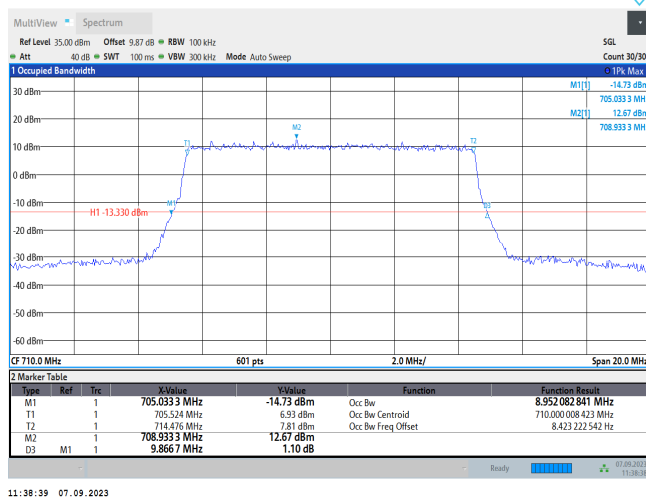
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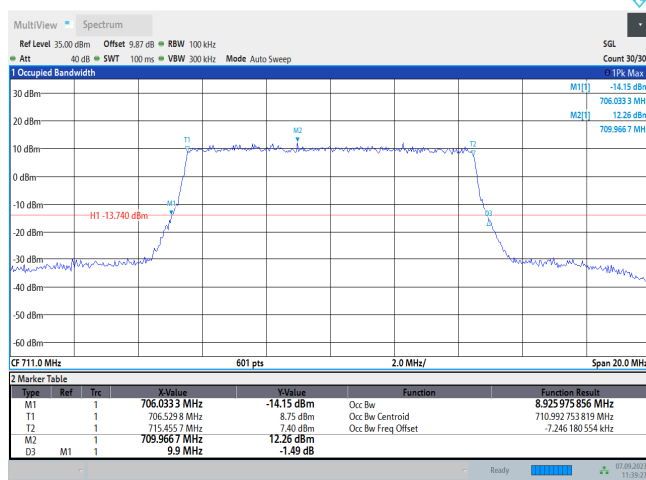
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Band17-10MHz-64QAM-23800-50RB#0



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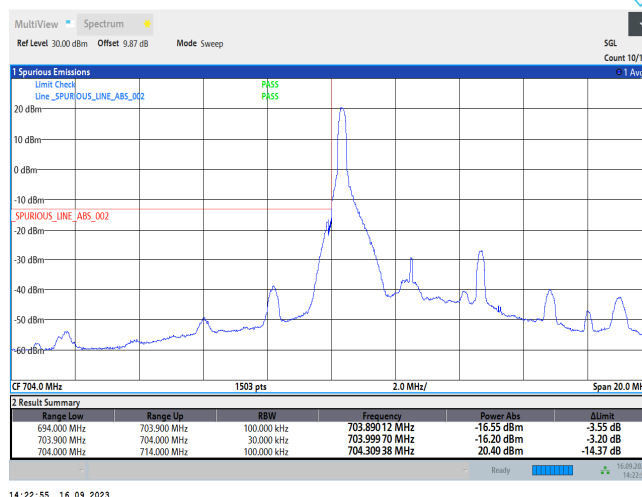
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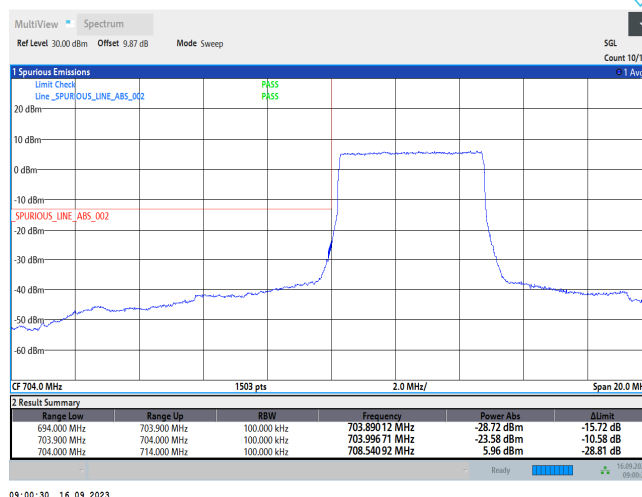
Band Edge

Test Graphs

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



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



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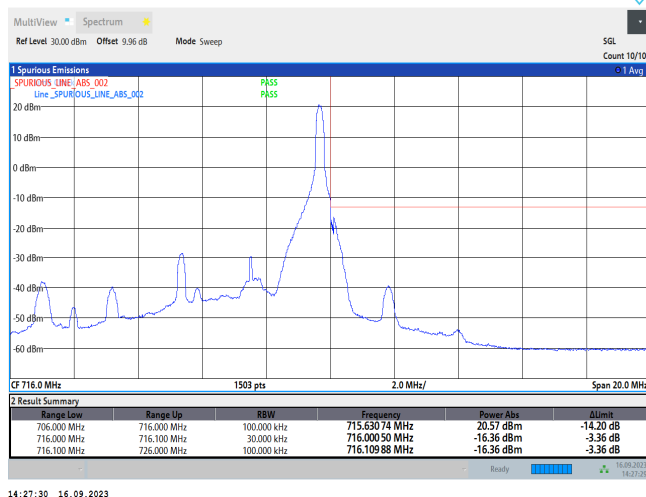
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Band17-5MHz-QPSK-23825-1RB#24



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



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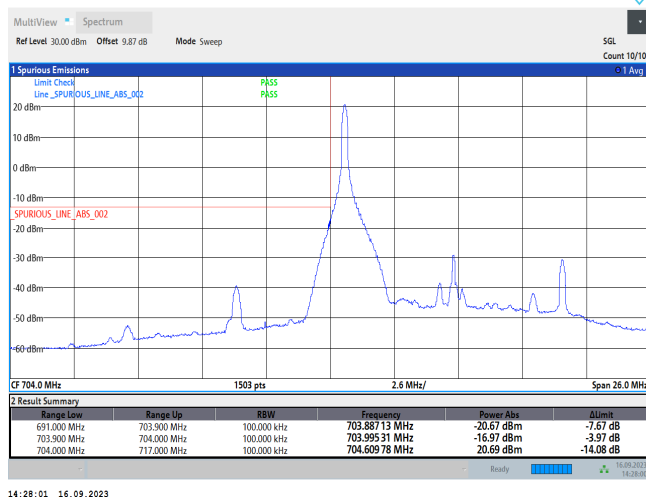
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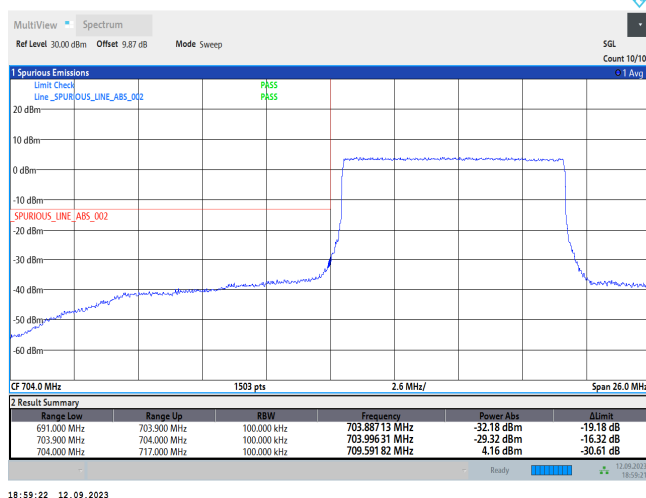
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Band17-10MHz-QPSK-23780-1RB#0



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



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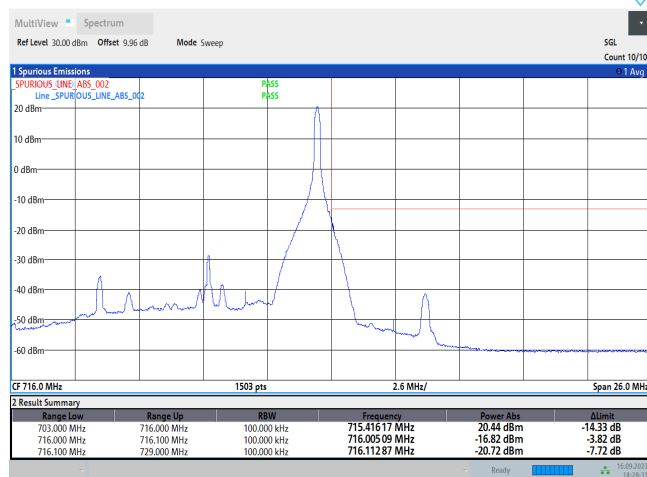
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Band17-10MHz-QPSK-23800-1RB#49



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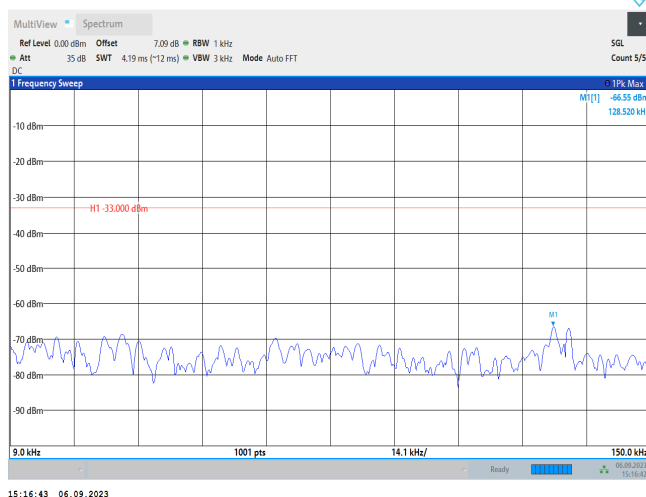
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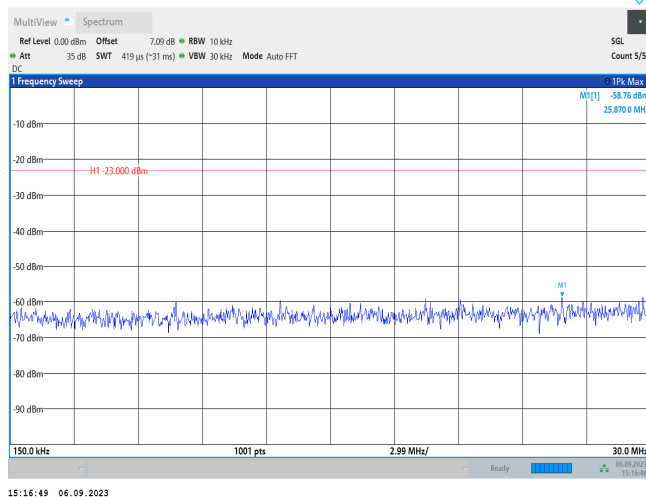
Conducted Spurious Emission

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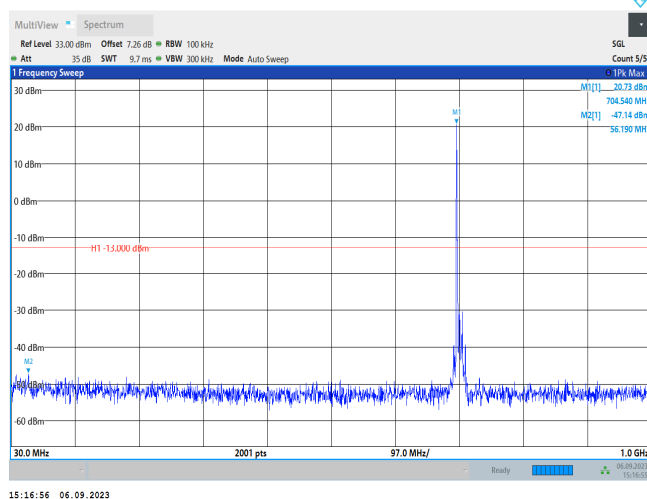
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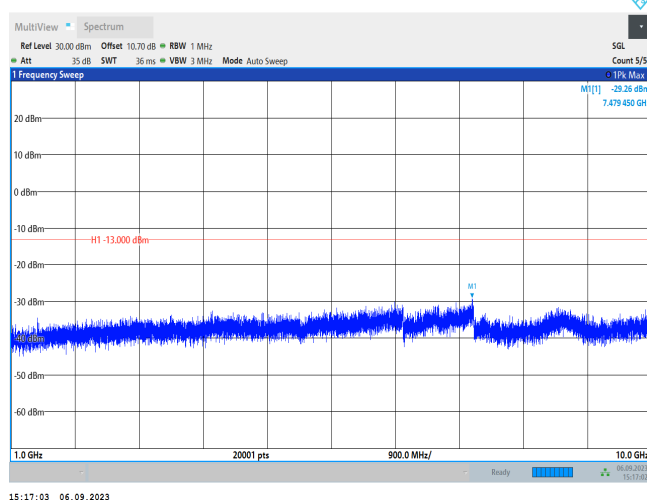
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Band17-10MHz-QPSK-23780-1RB#0-Range3:30~1000MHz



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



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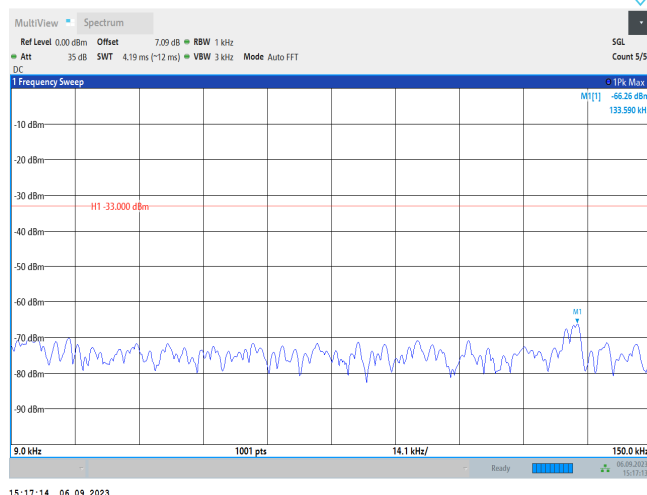
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Band17-10MHz-QPSK-23790-1RB#0-Range1:0.009~0.15MHz



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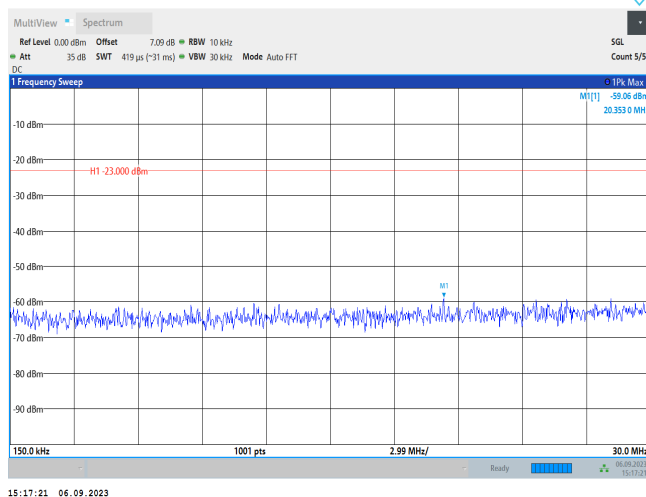
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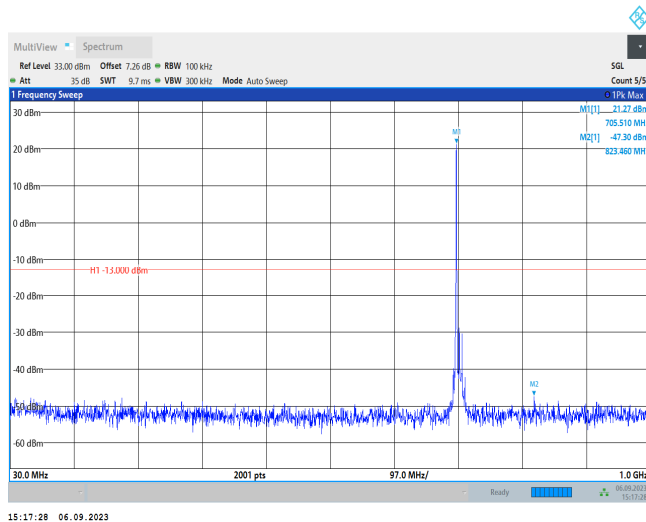
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Band17-10MHz-QPSK-23790-1RB#0-Range3:30~1000MHz



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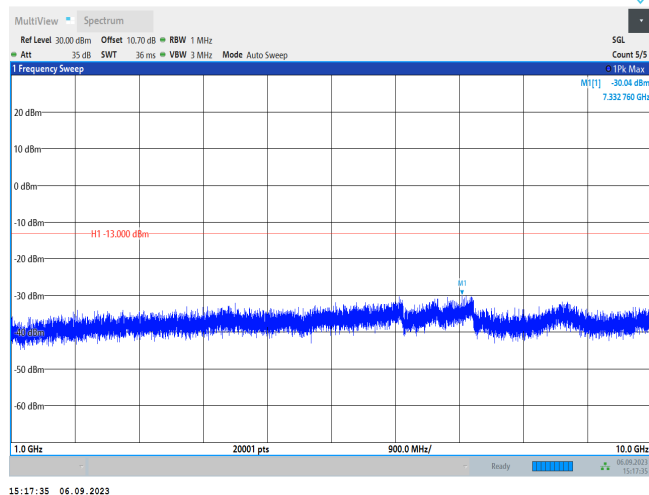
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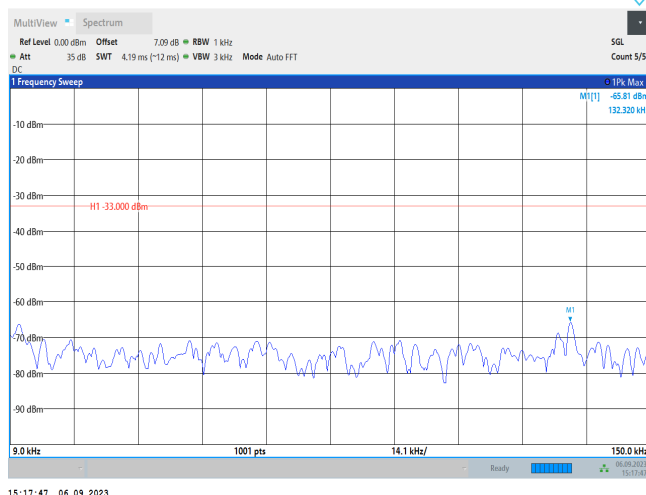
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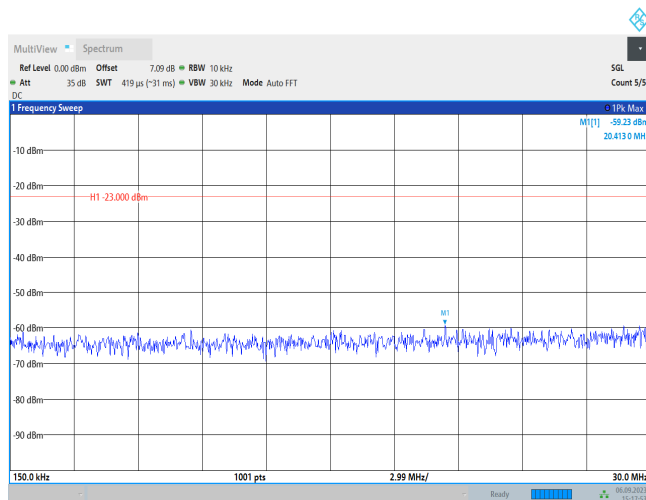
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Band17-10MHz-QPSK-23800-1RB#0-Range2:0.15~30MHz



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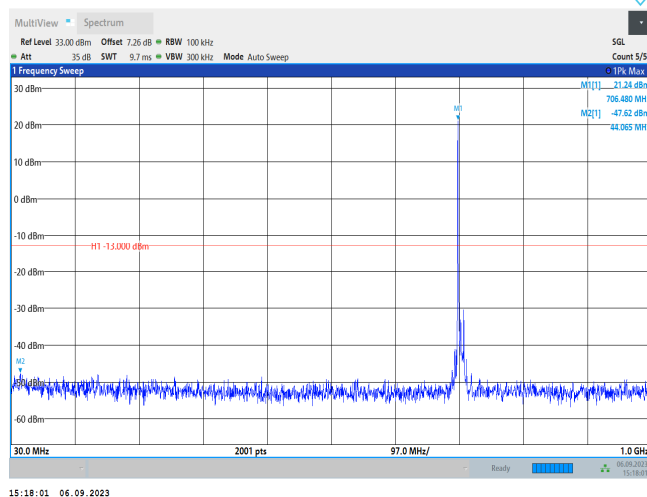
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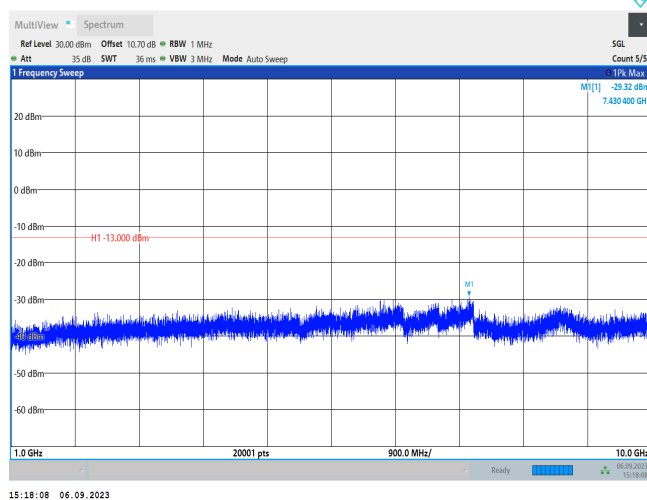
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Band17-10MHz-QPSK-23800-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation(SKU3):**Test Band = LTE Band 17_ TM1****Test Channel = Mid Channel**

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1422.6667	51.22	-49.97	24.39	-69.62	-13.00	36.62	Horizontal
2	2128	59.57	-49.47	26.85	-58.30	-13.00	45.30	Horizontal
3	2822.36	44.81	-48.70	28.07	-71.08	-13.00	58.08	Horizontal
4	3527.95	44.42	-48.44	28.74	-70.54	-13.00	57.54	Horizontal
5	4233.54	43.55	-48.25	29.82	-70.14	-13.00	57.14	Horizontal
6	4939.13	43.70	-48.09	31.35	-68.29	-13.00	55.29	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1416	50.65	-49.98	24.36	-70.23	-13.00	37.23	Vertical
2	2130.2222	59.65	-49.47	26.86	-58.22	-13.00	45.22	Vertical
3	2822.36	44.47	-48.70	28.07	-71.42	-13.00	58.42	Vertical
4	3527.95	44.55	-48.44	28.74	-70.41	-13.00	57.41	Vertical
5	4233.54	44.08	-48.25	29.82	-69.61	-13.00	56.61	Vertical
6	4939.13	44.28	-48.09	31.35	-67.71	-13.00	54.71	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

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	-10.84	-0.015268	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	-13.26	-0.018676	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	-8.27	-0.011648	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	-6.59	-0.009282	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	-6.78	-0.009549	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	-6.72	-0.009465	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	-7.75	-0.010915	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	-7.50	-0.010563	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	-6.01	-0.008465	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	-6.79	-0.009563	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	-5.59	-0.007873	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	-7.48	-0.010535	PASS

---End of Attachment---



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