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Rev.: 01
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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	23.43	17.88	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.41	17.86	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.42	17.87	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.47	16.92	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.47	17.92	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.45	17.9	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.45	17.9	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.4	16.85	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.54	17.99	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.47	17.92	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.41	17.86	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.43	16.88	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.68	17.13	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.48	16.93	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	22.5	16.95	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.41	15.86	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.59	17.04	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.46	16.91	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	22.47	16.92	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.42	15.87	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	22.51	16.96	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	22.51	16.96	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.54	16.99	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.42	15.87	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	21.56	16.01	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#12	21.61	16.06	34.77	PASS



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Band17	5MHz	64QAM	23755	1RB#24	21.5	15.95	34.77	PASS
Band17	5MHz	64QAM	23755	25RB#0	20.38	14.83	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	21.59	16.04	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#12	21.56	16.01	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	21.63	16.08	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	20.45	14.9	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	21.63	16.08	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	21.59	16.04	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	21.57	16.02	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	20.37	14.82	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#0	18.53	12.98	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#12	18.5	12.95	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#24	18.54	12.99	34.77	PASS
Band17	5MHz	256QAM	23755	25RB#0	18.43	12.88	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#0	18.57	13.02	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#12	18.54	12.99	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#24	18.51	12.96	34.77	PASS
Band17	5MHz	256QAM	23790	25RB#0	18.44	12.89	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#0	18.5	12.95	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#12	18.49	12.94	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#24	18.53	12.98	34.77	PASS
Band17	5MHz	256QAM	23825	25RB#0	18.4	12.85	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.49	17.94	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.41	17.86	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.45	17.9	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.44	16.89	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.49	17.94	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.4	17.85	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.42	17.87	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.49	16.94	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.57	18.02	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.45	17.9	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.43	17.88	34.77	PASS



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Band17	10MHz	QPSK	23800	50RB#0	22.41	16.86	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	22.54	16.99	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.54	16.99	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.45	16.9	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.37	15.82	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.43	16.88	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.48	16.93	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	22.38	16.83	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.4	15.85	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	22.55	17	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	22.47	16.92	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	22.39	16.84	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.34	15.79	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	21.59	16.04	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	21.62	16.07	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	21.5	15.95	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	20.38	14.83	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#0	21.53	15.98	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	21.53	15.98	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	21.54	15.99	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	20.42	14.87	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	21.62	16.07	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	21.57	16.02	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	21.5	15.95	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	20.36	14.81	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#0	18.51	12.96	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#24	18.5	12.95	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#49	18.42	12.87	34.77	PASS
Band17	10MHz	256QAM	23780	50RB#0	18.38	12.83	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#0	18.4	12.85	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#24	18.51	12.96	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#49	18.44	12.89	34.77	PASS
Band17	10MHz	256QAM	23790	50RB#0	18.41	12.86	34.77	PASS



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Band17	10MHz	256QAM	23800	1RB#0	18.49	12.94	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#24	18.51	12.96	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#49	18.47	12.92	34.77	PASS
Band17	10MHz	256QAM	23800	50RB#0	18.41	12.86	34.77	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	10MHz	QPSK	23780	50RB#0	5.32	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	4.90	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	4.90	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.02	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	5.96	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	5.96	13	PASS
Band17	10MHz	64QAM	23780	50RB#0	6.32	13	PASS
Band17	10MHz	64QAM	23790	50RB#0	6.38	13	PASS
Band17	10MHz	64QAM	23800	50RB#0	6.32	13	PASS
Band17	10MHz	256QAM	23780	50RB#0	6.50	13	PASS
Band17	10MHz	256QAM	23790	50RB#0	6.46	13	PASS
Band17	10MHz	256QAM	23800	50RB#0	6.46	13	PASS



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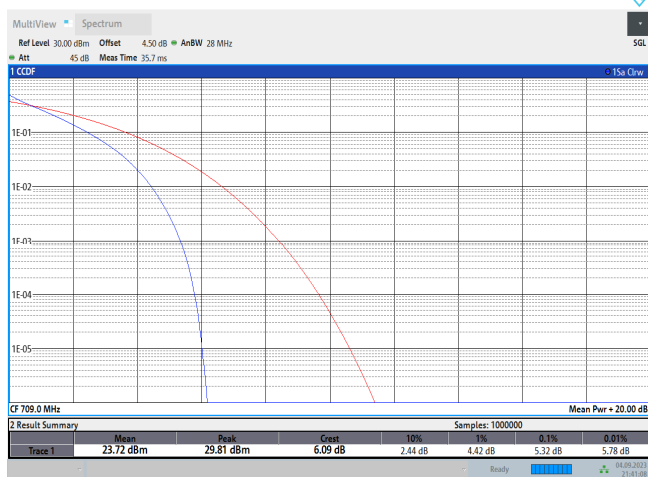
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 sgs.china@sgs.com

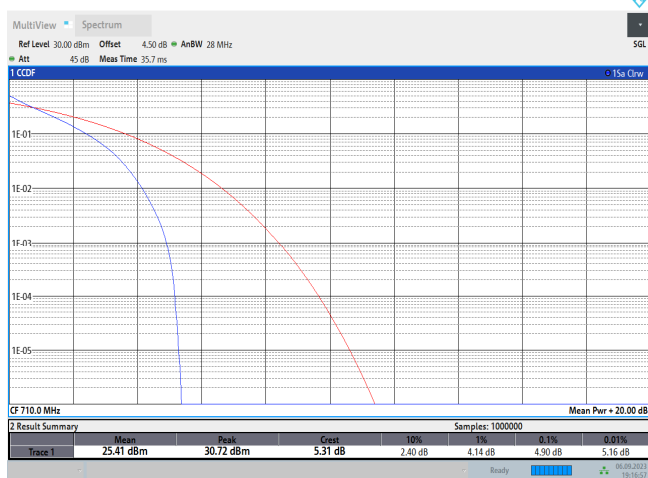
Test Graphs

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



21:41:08 04.09.2023

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

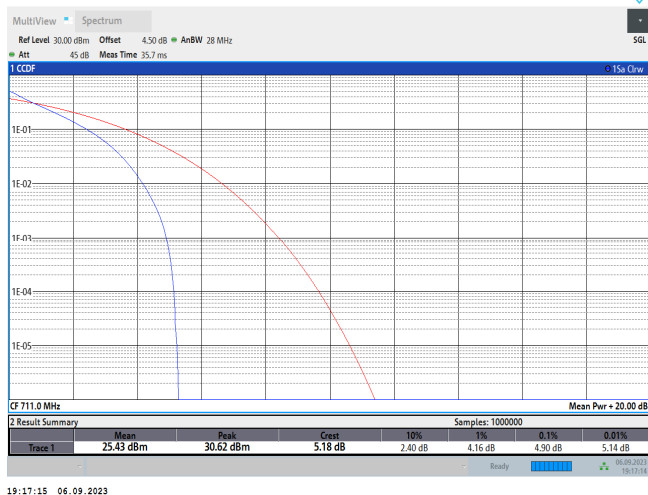


19:16:58 06.09.2023



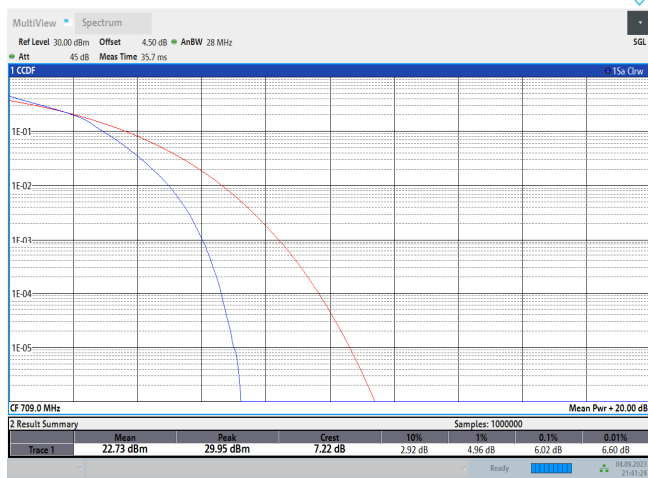
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Band17-10MHz-QPSK-23800-50RB#0



19:17:15 06.09.2023

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

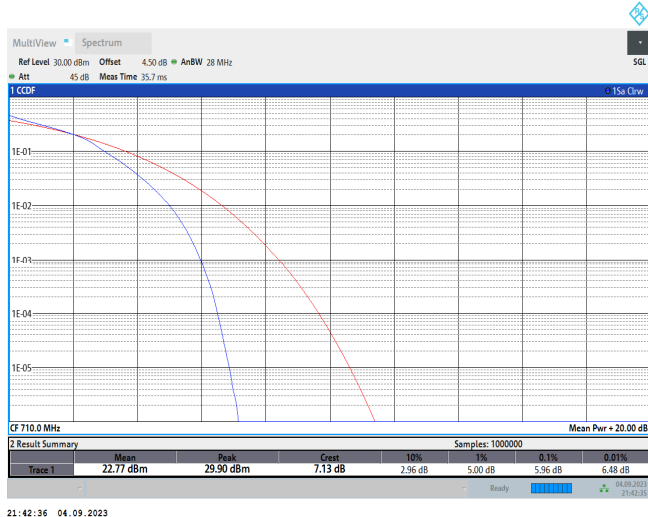


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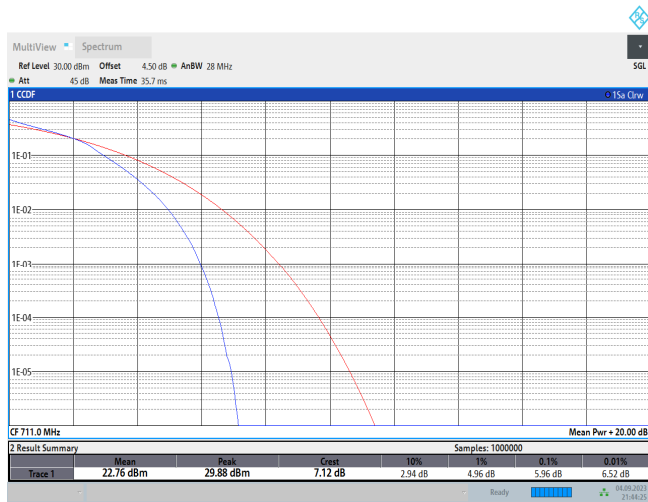
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Band17-10MHz-16QAM-23790-50RB#0



21:42:36 04.09.2023

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

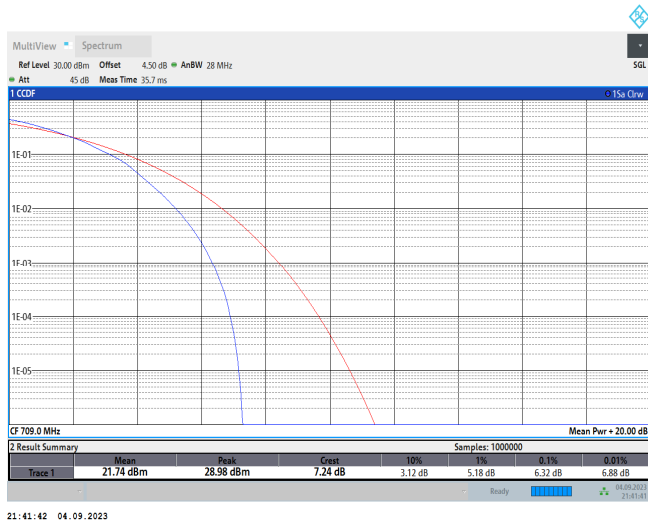


21:44:26 04.09.2023



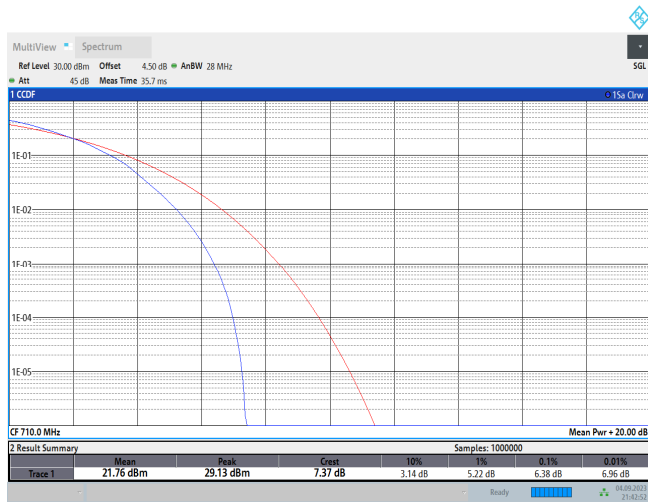
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Band17-10MHz-64QAM-23780-50RB#0



21:41:42 04.09.2023

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

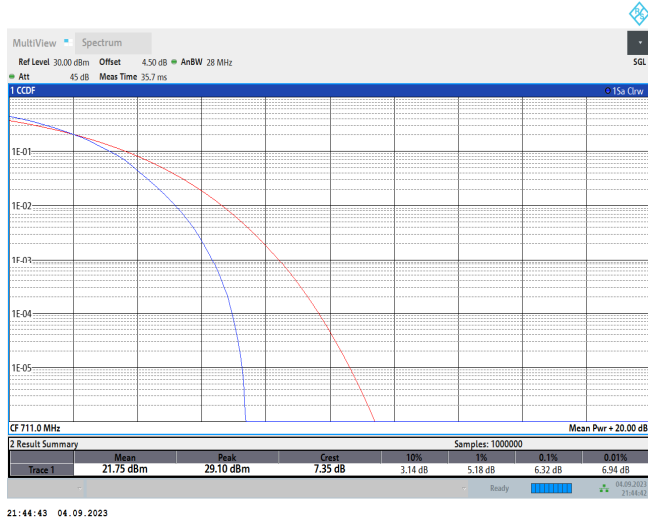


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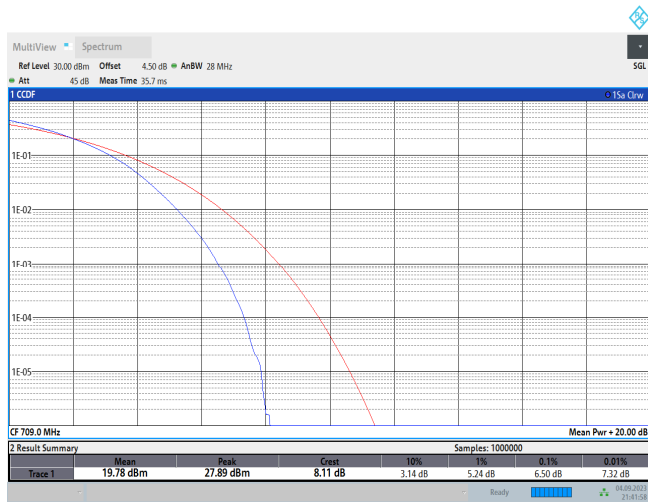
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Band17-10MHz-64QAM-23800-50RB#0



21:44:43 04.09.2023

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

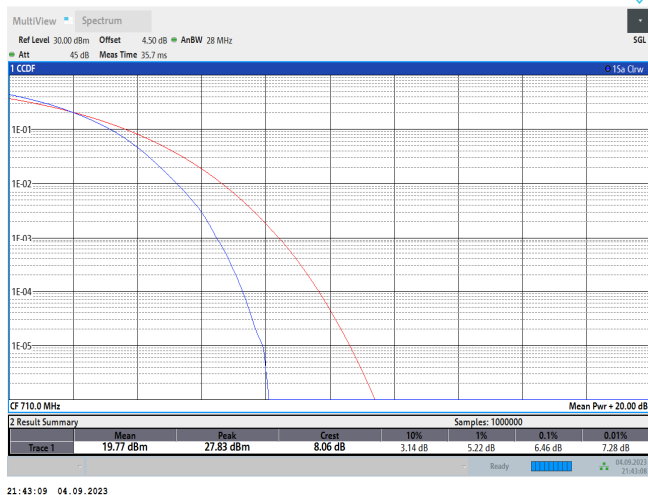


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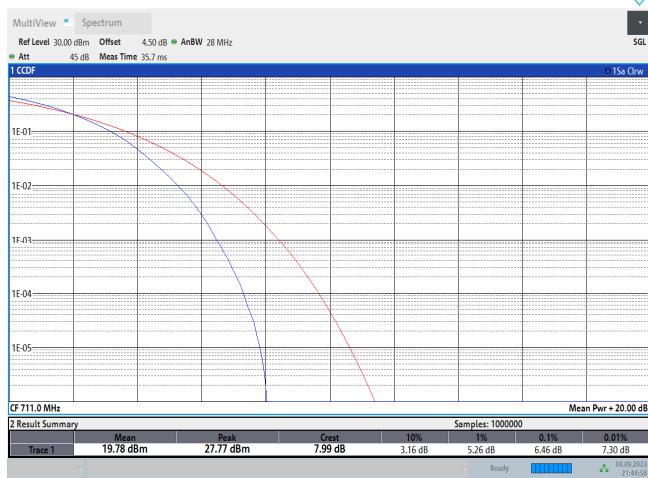
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Band17-10MHz-256QAM-23790-50RB#0



21:43:09 04.09.2023

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



21:44:59 04.09.2023



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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	4.471	4.84	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.467	4.88	PASS
Band17	5MHz	64QAM	23790	25RB#0	4.474	4.88	PASS
Band17	5MHz	256QAM	23790	25RB#0	4.468	4.83	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.934	9.63	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.936	9.70	PASS
Band17	10MHz	64QAM	23790	50RB#0	8.947	9.73	PASS
Band17	10MHz	256QAM	23790	50RB#0	8.936	9.67	PASS



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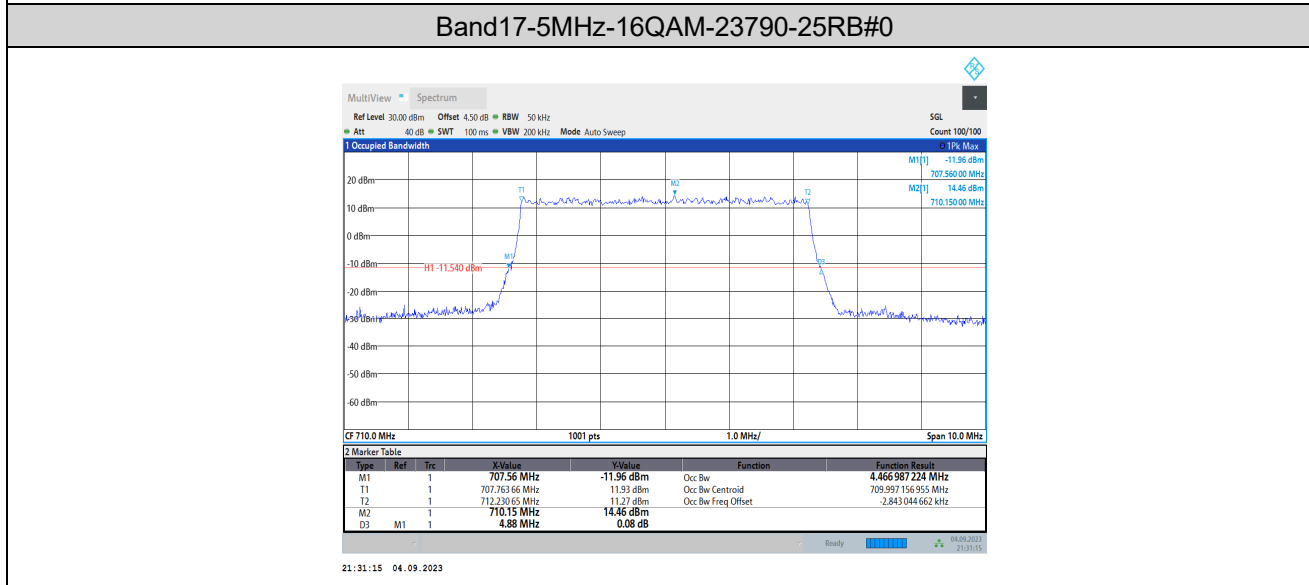
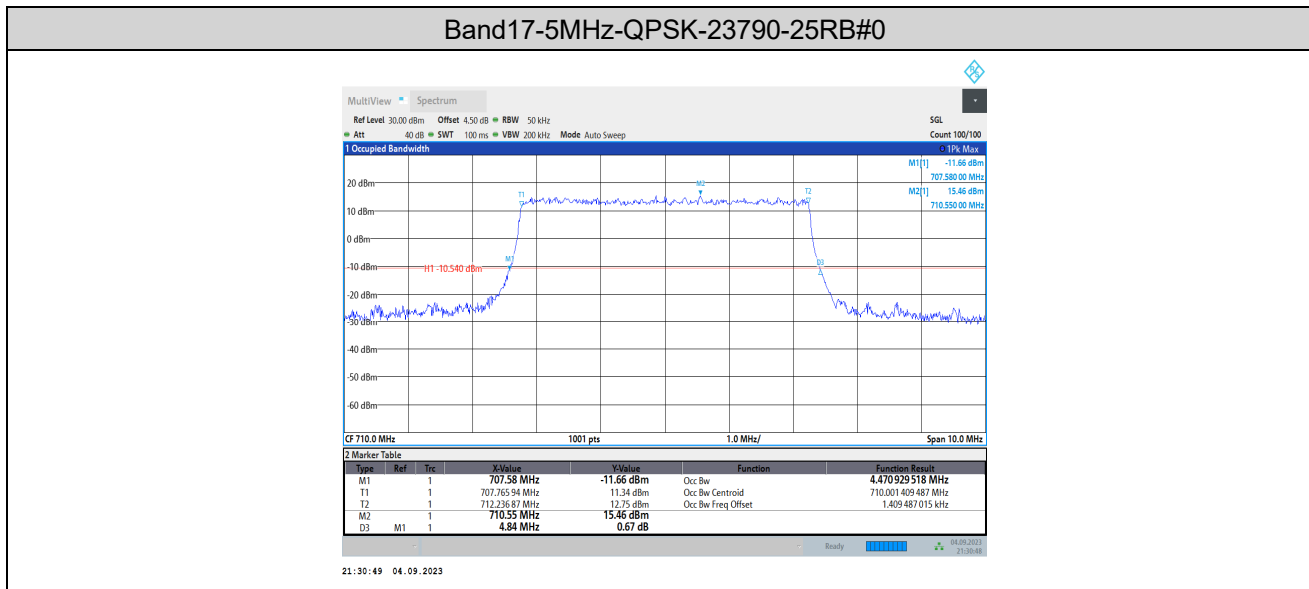
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Test Graphs

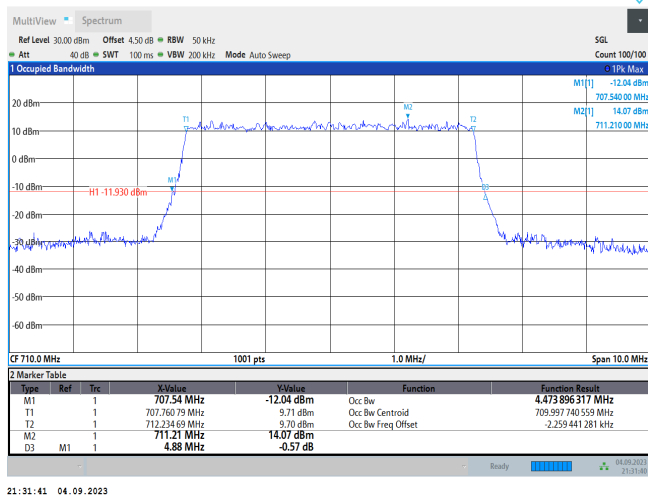


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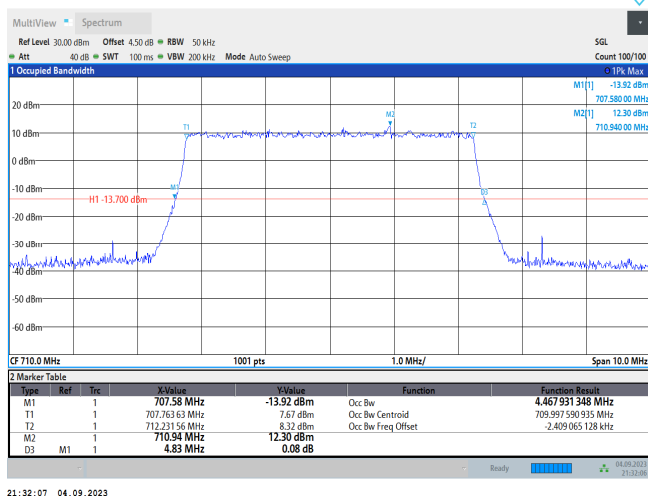
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Band17-5MHz-64QAM-23790-25RB#0



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

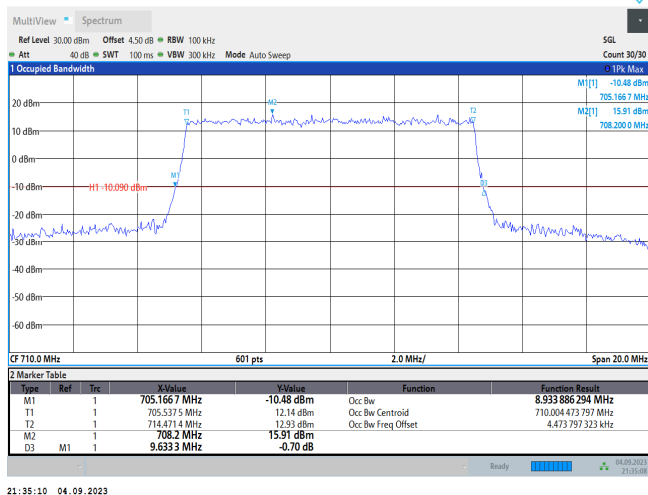


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Band17-10MHz-QPSK-23790-50RB#0



21:35:10 04.09.2023

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

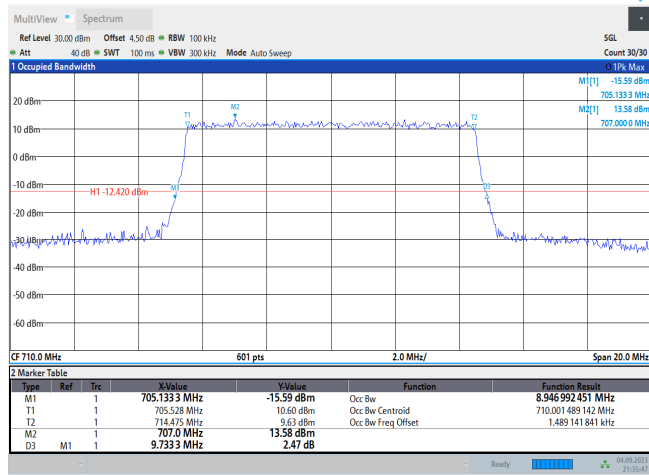


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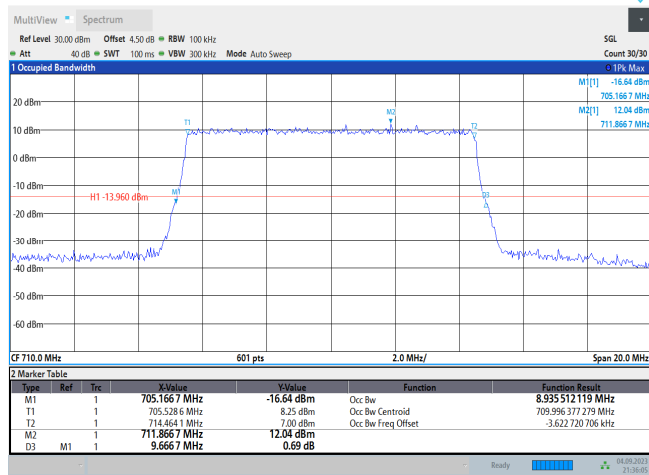
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Band17-10MHz-64QAM-23790-50RB#0



21:35:47 04.09.2023

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



21:36:06 04.09.2023



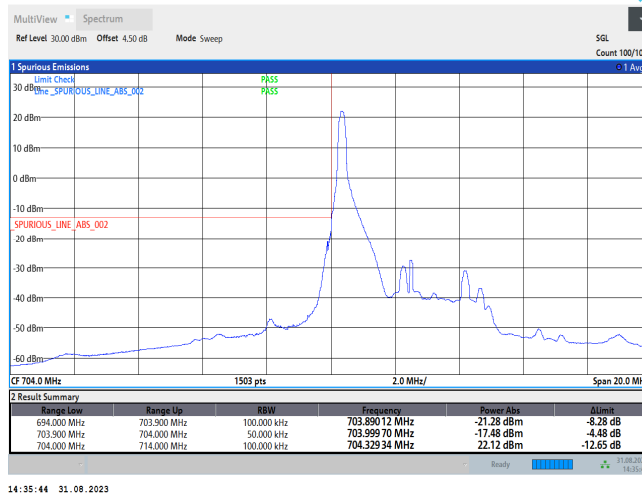
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Band Edge

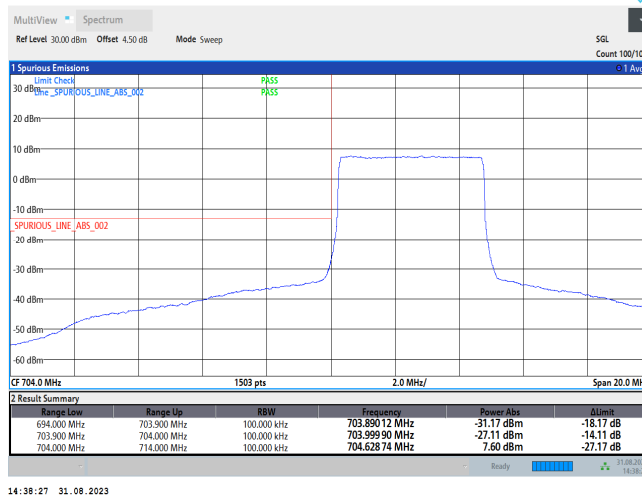
Test Graphs

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



14:35:44 31.08.2023

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



14:38:27 31.08.2023



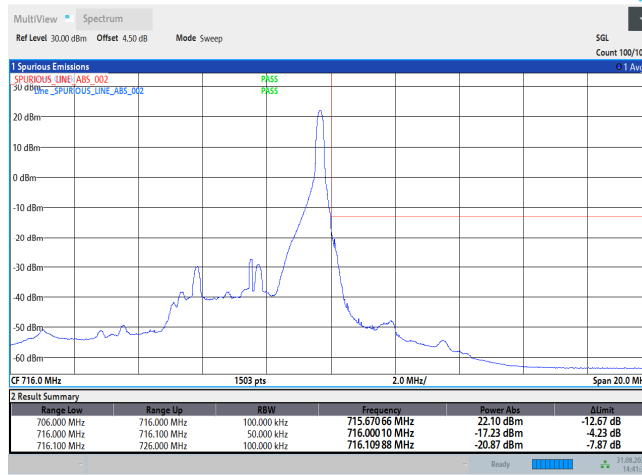
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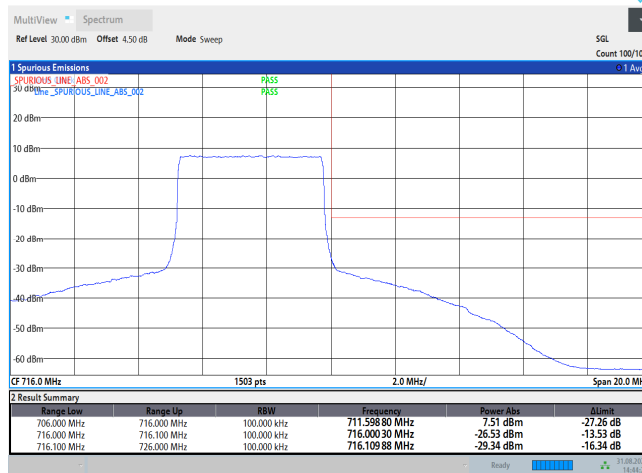
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Band17-5MHz-QPSK-23825-1RB#24



14:41:36 31.08.2023

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



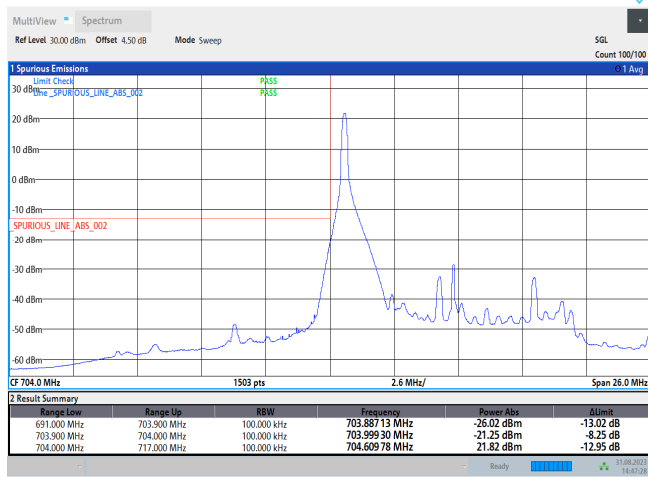
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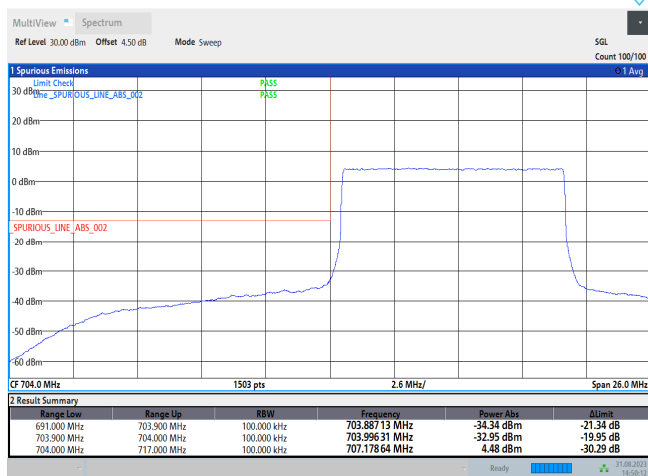
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Band17-10MHz-QPSK-23780-1RB#0



14:47:29 31.08.2023

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

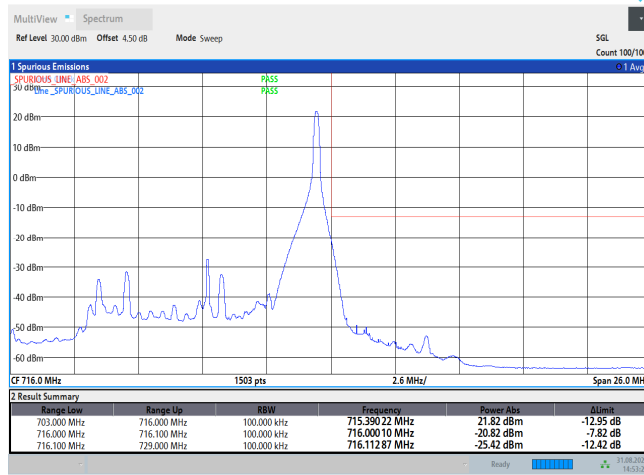


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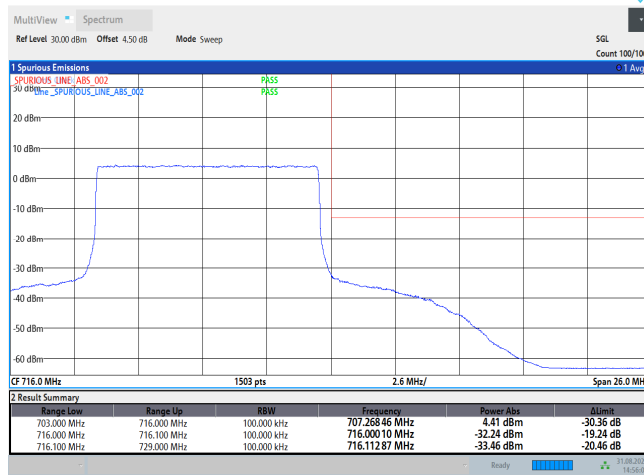
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Band17-10MHz-QPSK-23800-1RB#49



14:53:21 31.08.2023

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



14:56:05 31.08.2023



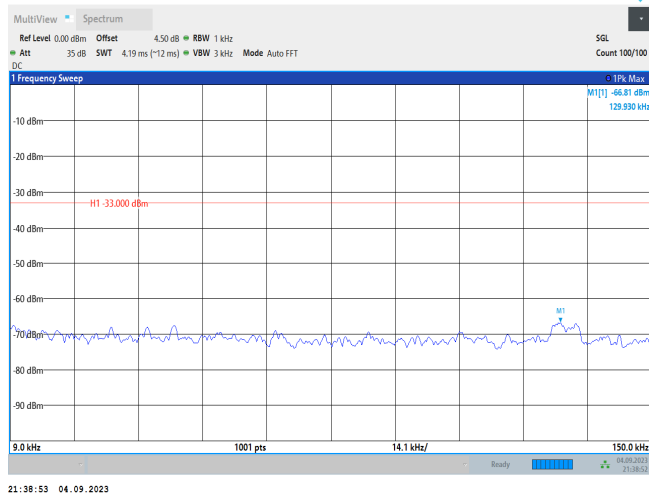
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 Wireless Laboratory

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Conducted Spurious Emission

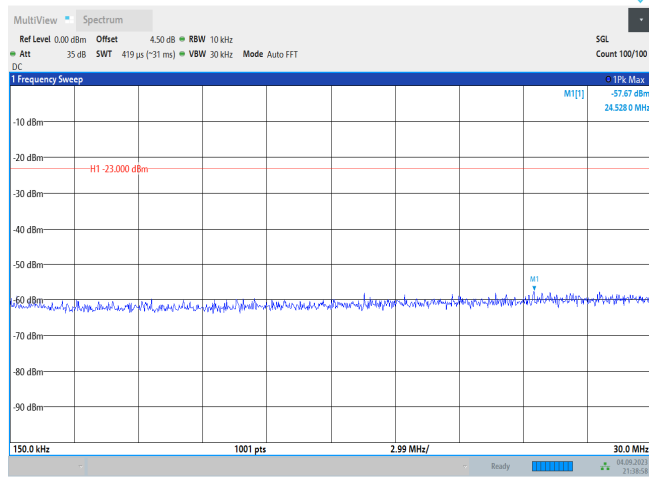
Test Graphs

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



21:38:53 04.09.2023

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



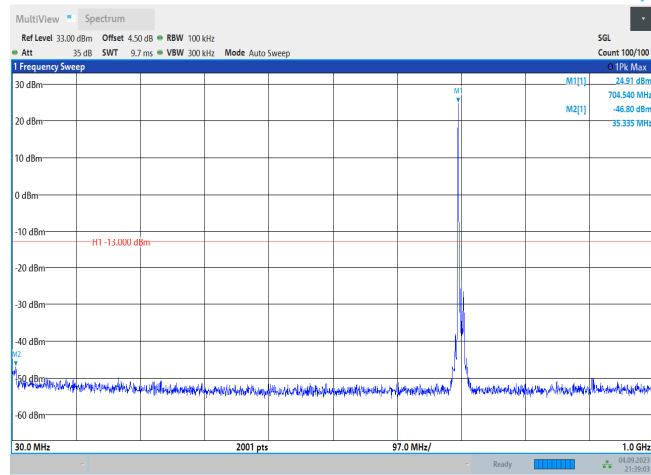
21:38:58 04.09.2023



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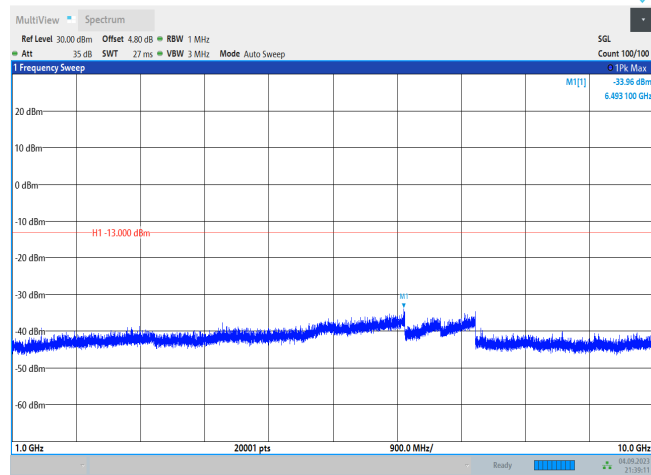
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Band17-10MHz-QPSK-23780-1RB#0-Range3:30~1000MHz



21:39:03 04.09.2023

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



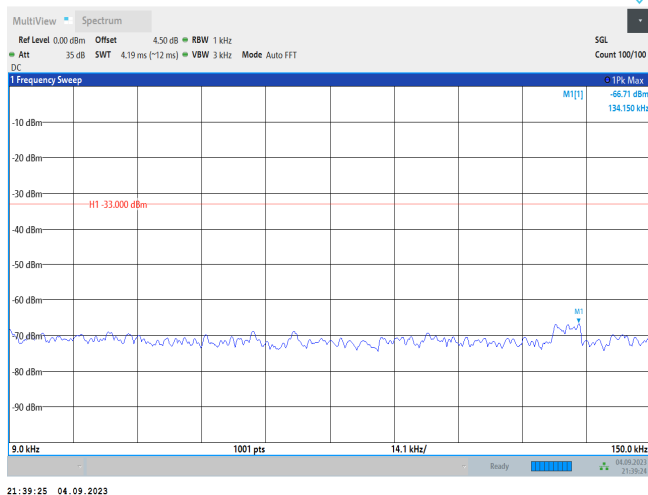
21:39:11 04.09.2023



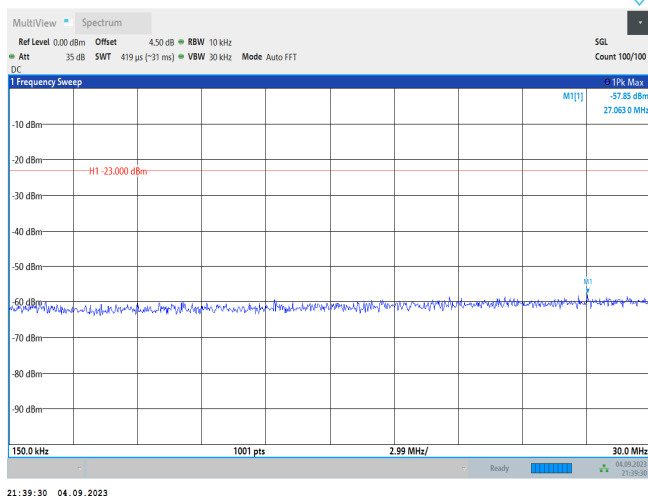
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Band17-10MHz-QPSK-23790-1RB#0-Range1:0.009~0.15MHz

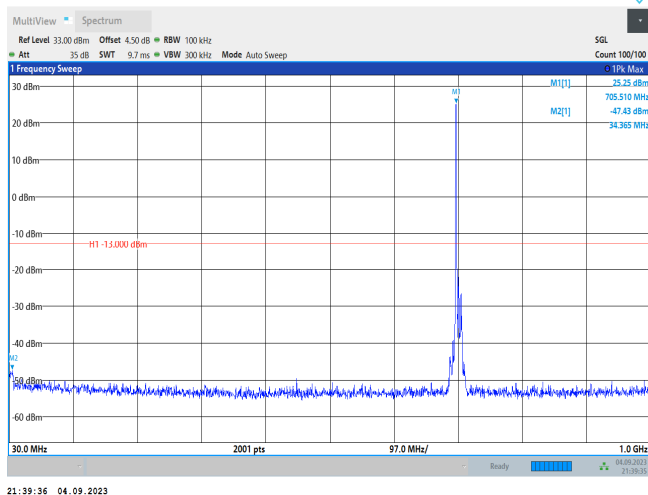


Band17-10MHz-QPSK-23790-1RB#0-Range2:0.15~30MHz



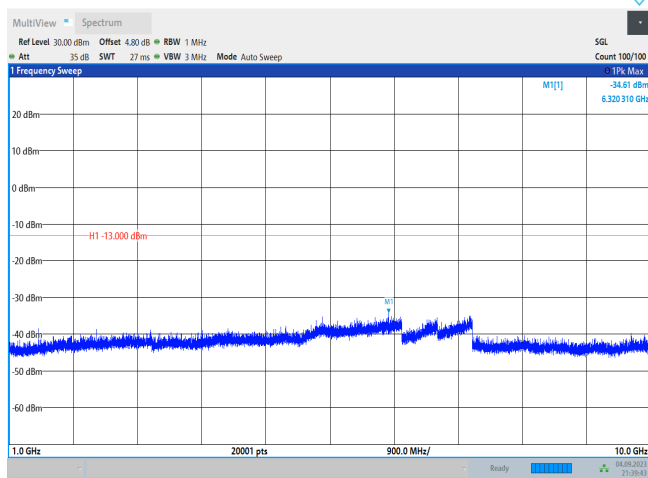
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Band17-10MHz-QPSK-23790-1RB#0-Range3:30~1000MHz



21:39:36 04.09.2023

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

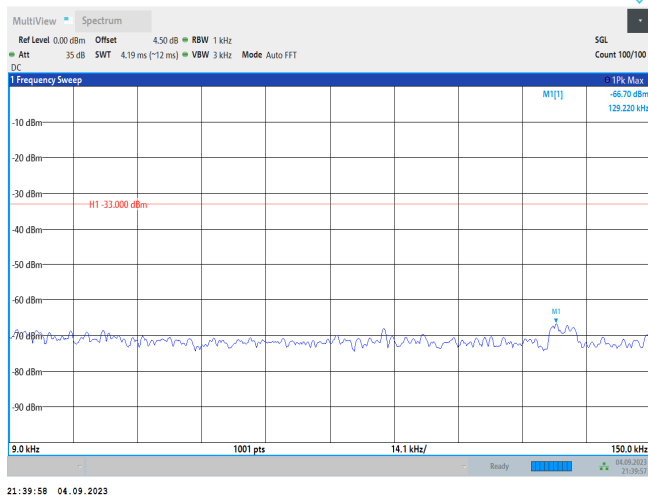


21:39:44 04.09.2023



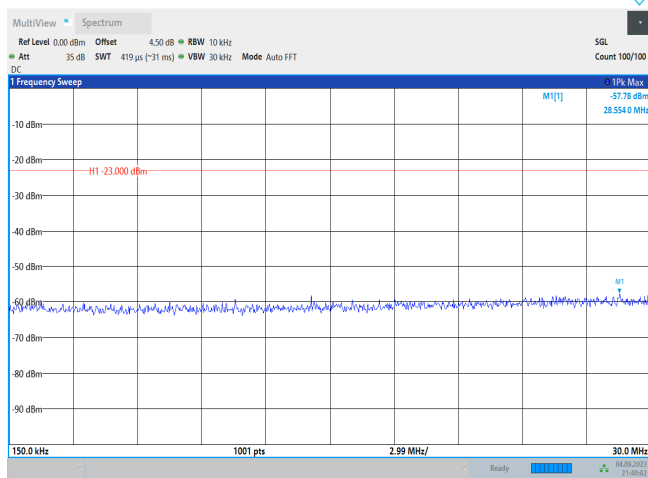
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Band17-10MHz-QPSK-23800-1RB#0-Range1:0.009~0.15MHz



21:39:58 04.09.2023

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

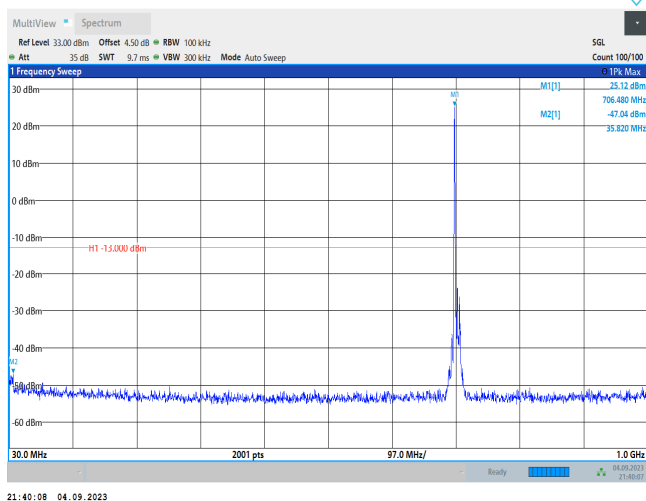


21:40:03 04.09.2023



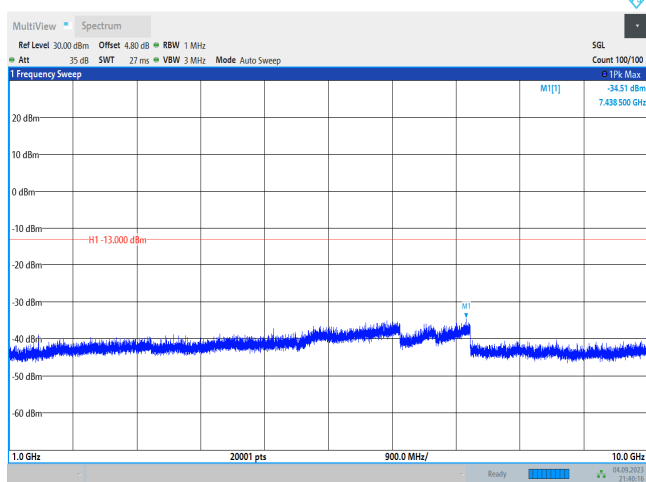
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Band17-10MHz-QPSK-23800-1RB#0-Range3:30~1000MHz



21:40:08 04.09.2023

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



21:40:16 04.09.2023



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Field Strength of Spurious Radiation

Test Band = LTE Band17_10MHz_TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1409.1800	44.17	-48.03	25.10	-74.02	-13.00	61.02	Horizontal
2	2113.7700	42.16	-47.71	26.22	-74.59	-13.00	61.59	Horizontal
3	2818.3600	43.02	-46.85	27.94	-71.16	-13.00	58.16	Horizontal
4	3522.9500	42.04	-46.49	28.62	-71.09	-13.00	58.09	Horizontal
5	4227.5400	40.48	-45.91	29.65	-71.04	-13.00	58.04	Horizontal
6	4932.1300	41.86	-45.65	31.25	-67.80	-13.00	54.80	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1409.1800	44.04	-48.03	25.10	-74.15	-13.00	61.15	Vertical
2	2113.7700	42.14	-47.71	26.22	-74.61	-13.00	61.61	Vertical
3	2818.3600	42.95	-46.85	27.94	-71.23	-13.00	58.23	Vertical
4	3522.9500	42.05	-46.49	28.62	-71.08	-13.00	58.08	Vertical
5	4227.5400	40.66	-45.91	29.65	-70.86	-13.00	57.86	Vertical
6	4932.1300	41.90	-45.65	31.25	-67.76	-13.00	54.76	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]	Polarity
1	1411.1800	54.42	-48.04	25.11	-63.77	-13.00	50.77	Horizontal
2	2116.7700	42.56	-47.70	26.23	-74.18	-13.00	61.18	Horizontal
3	2822.3600	43.30	-46.84	27.95	-70.85	-13.00	57.85	Horizontal
4	3527.9500	42.53	-46.48	28.63	-70.59	-13.00	57.59	Horizontal
5	4233.5400	40.80	-45.90	29.66	-70.70	-13.00	57.70	Horizontal
6	4939.1300	41.04	-45.67	31.27	-68.62	-13.00	55.62	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1411.1800	48.69	-48.04	25.11	-69.50	-13.00	56.50	Vertical
2	2116.7700	42.93	-47.70	26.23	-73.81	-13.00	60.81	Vertical
3	2822.3600	43.29	-46.84	27.95	-70.86	-13.00	57.86	Vertical
4	3527.9500	42.29	-46.48	28.63	-70.83	-13.00	57.83	Vertical
5	4233.5400	40.68	-45.90	29.66	-70.82	-13.00	57.82	Vertical
6	4939.1300	42.19	-45.67	31.27	-67.47	-13.00	54.47	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]	Polarity
1	1413.1800	44.12	-48.04	25.11	-74.08	-13.00	61.08	Horizontal
2	2119.7700	42.64	-47.70	26.24	-74.09	-13.00	61.09	Horizontal
3	2826.3600	42.79	-46.83	27.95	-71.34	-13.00	58.34	Horizontal
4	3532.9500	42.00	-46.47	28.63	-71.10	-13.00	58.10	Horizontal
5	4239.5400	41.61	-45.89	29.68	-69.86	-13.00	56.86	Horizontal
6	4946.1300	41.53	-45.69	31.28	-68.13	-13.00	55.13	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.1800	44.23	-48.04	25.11	-73.97	-13.00	60.97	Vertical
2	2119.7700	42.52	-47.70	26.24	-74.21	-13.00	61.21	Vertical
3	2826.3600	42.66	-46.83	27.95	-71.47	-13.00	58.47	Vertical
4	3532.9500	42.38	-46.47	28.63	-70.72	-13.00	57.72	Vertical
5	4239.5400	41.05	-45.89	29.68	-70.42	-13.00	57.42	Vertical
6	4946.1300	42.00	-45.69	31.28	-67.66	-13.00	54.66	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	-1.70	-0.002394	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	-1.90	-0.002676	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	-0.70	-0.000986	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	1.60	0.002254	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	2.80	0.003944	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	1.60	0.002254	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	-1.70	-0.002394	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	-2.40	-0.003380	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	-0.10	-0.000141	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	-0.10	-0.000141	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	-0.70	-0.000986	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	-1.30	-0.001831	PASS

---End of Attachment---



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