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Appendix B.4

LTE Band 7



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	23.36	23.91	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#12	23.42	23.97	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#24	23.41	23.96	33.00	PASS
Band7	5MHz	QPSK	20775	25RB#0	22.44	22.99	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#0	23.37	23.92	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#12	23.43	23.98	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#24	23.39	23.94	33.00	PASS
Band7	5MHz	QPSK	21100	25RB#0	22.42	22.97	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#0	23.47	24.02	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#12	23.41	23.96	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#24	23.25	23.80	33.00	PASS
Band7	5MHz	QPSK	21425	25RB#0	22.39	22.94	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#0	22.53	23.08	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#12	22.61	23.16	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#24	22.63	23.18	33.00	PASS
Band7	5MHz	16QAM	20775	25RB#0	21.42	21.97	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#0	22.64	23.19	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#12	22.65	23.20	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#24	22.56	23.11	33.00	PASS
Band7	5MHz	16QAM	21100	25RB#0	21.40	21.95	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#0	22.69	23.24	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#12	22.65	23.20	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#24	22.58	23.13	33.00	PASS
Band7	5MHz	16QAM	21425	25RB#0	21.33	21.88	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#0	23.38	23.93	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#24	23.34	23.89	33.00	PASS



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Band7	10MHz	QPSK	20800	1RB#49	23.36	23.91	33.00	PASS
Band7	10MHz	QPSK	20800	50RB#0	22.39	22.94	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#0	23.38	23.93	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#24	23.36	23.91	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#49	23.36	23.91	33.00	PASS
Band7	10MHz	QPSK	21100	50RB#0	22.43	22.98	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#0	23.30	23.85	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#24	23.33	23.88	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#49	23.30	23.85	33.00	PASS
Band7	10MHz	QPSK	21400	50RB#0	22.38	22.93	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#0	22.53	23.08	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#24	22.39	22.94	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#49	22.57	23.12	33.00	PASS
Band7	10MHz	16QAM	20800	50RB#0	21.36	21.91	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#0	22.49	23.04	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#24	22.50	23.05	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#49	22.61	23.16	33.00	PASS
Band7	10MHz	16QAM	21100	50RB#0	21.37	21.92	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#0	22.57	23.12	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#24	22.47	23.02	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#49	22.56	23.11	33.00	PASS
Band7	10MHz	16QAM	21400	50RB#0	21.37	21.92	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#0	23.32	23.87	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#38	23.34	23.89	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#74	23.34	23.89	33.00	PASS
Band7	15MHz	QPSK	20825	75RB#0	22.37	22.92	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#0	23.37	23.92	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#38	23.38	23.93	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#74	23.39	23.94	33.00	PASS
Band7	15MHz	QPSK	21100	75RB#0	22.44	22.99	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#0	23.25	23.80	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#38	23.28	23.83	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#74	23.29	23.84	33.00	PASS



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Band7	15MHz	QPSK	21375	75RB#0	22.35	22.90	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#0	22.46	23.01	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#38	22.55	23.10	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#74	22.46	23.01	33.00	PASS
Band7	15MHz	16QAM	20825	75RB#0	21.32	21.87	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#0	22.59	23.14	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#38	22.58	23.13	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#74	22.64	23.19	33.00	PASS
Band7	15MHz	16QAM	21100	75RB#0	21.41	21.96	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#0	22.46	23.01	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#38	22.54	23.09	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#74	22.59	23.14	33.00	PASS
Band7	15MHz	16QAM	21375	75RB#0	21.31	21.86	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#0	23.31	23.86	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#49	23.27	23.82	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#99	23.23	23.78	33.00	PASS
Band7	20MHz	QPSK	20850	100RB#0	22.28	22.83	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#0	23.32	23.87	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#49	23.29	23.84	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#99	23.33	23.88	33.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	22.43	22.98	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#0	23.23	23.78	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#49	23.23	23.78	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#99	23.26	23.81	33.00	PASS
Band7	20MHz	QPSK	21350	100RB#0	22.32	22.87	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#0	22.45	23.00	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#49	22.47	23.02	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#99	22.38	22.93	33.00	PASS
Band7	20MHz	16QAM	20850	100RB#0	21.18	21.73	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#0	22.56	23.11	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#49	22.47	23.02	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#99	22.59	23.14	33.00	PASS
Band7	20MHz	16QAM	21100	100RB#0	21.36	21.91	33.00	PASS



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Band7	20MHz	16QAM	21350	1RB#0	22.48	23.03	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#49	22.55	23.10	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#99	22.54	23.09	33.00	PASS
Band7	20MHz	16QAM	21350	100RB#0	21.29	21.84	33.00	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	4.98	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.16	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.28	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	5.80	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	5.94	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	6.10	13	PASS



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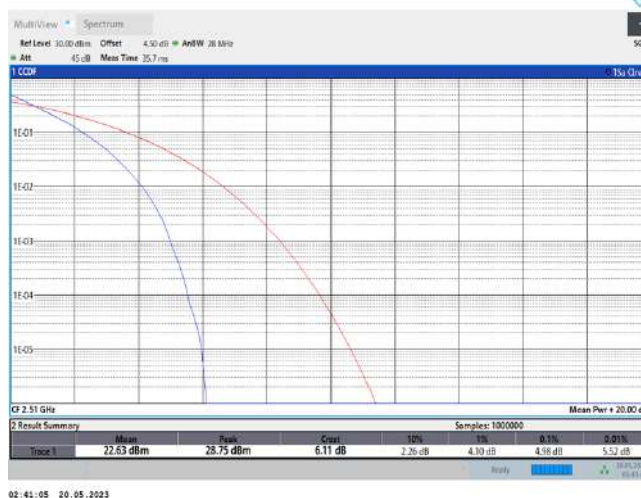
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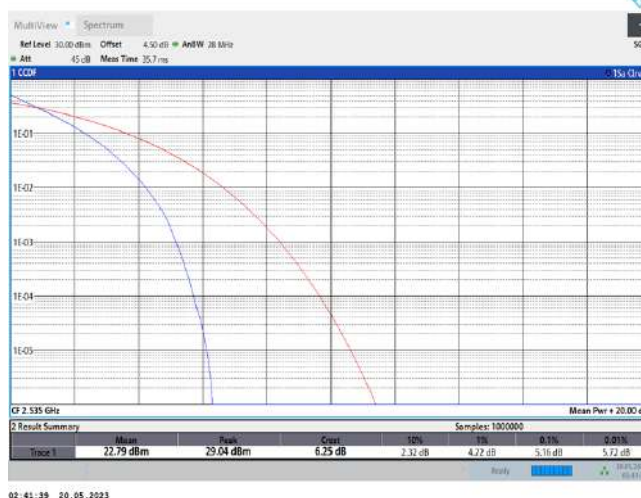
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Test Graphs

Band7-20MHz-QPSK-20850-100RB#0



Band7-20MHz-QPSK-21100-100RB#0



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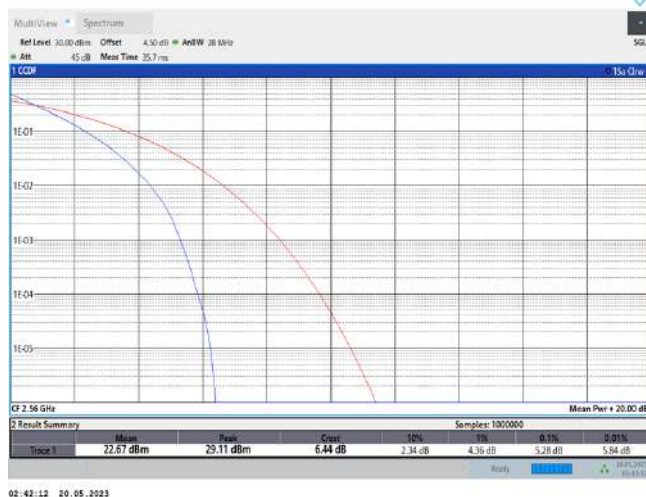
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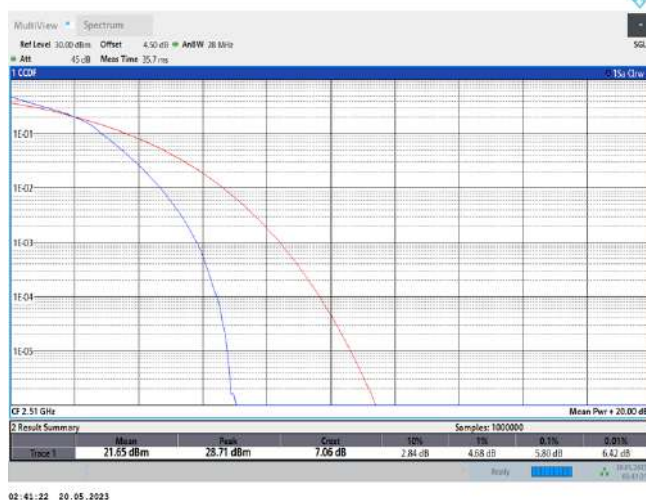
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Band7-20MHz-QPSK-21350-100RB#0



Band7-20MHz-16QAM-20850-100RB#0



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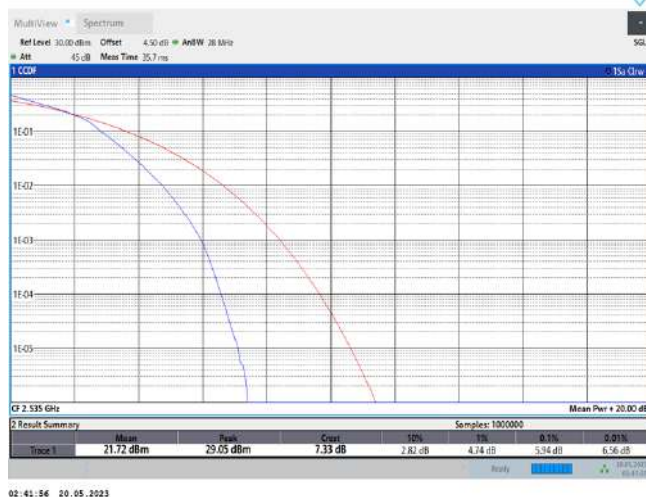
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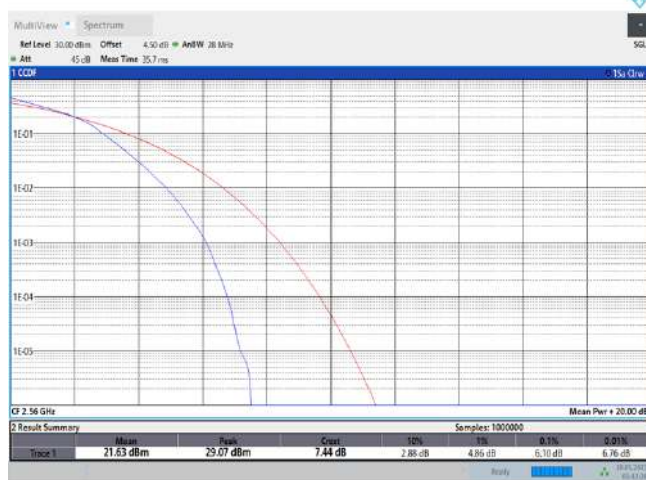
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Band7-20MHz-16QAM-21100-100RB#0



02:41:56 20.05.2023

Band7-20MHz-16QAM-21350-100RB#0



02:42:29 20.05.2023



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.474	4.89	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.474	4.90	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.475	4.89	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.469	4.92	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.471	4.93	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.470	4.93	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.928	9.64	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.931	9.66	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.936	9.66	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.920	9.68	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.918	9.60	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.914	9.70	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.458	14.76	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.469	14.70	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.446	14.73	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.445	14.79	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.425	14.79	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.429	14.82	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.896	19.40	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.905	19.56	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.914	19.52	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.877	19.48	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.878	19.52	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.871	19.40	PASS



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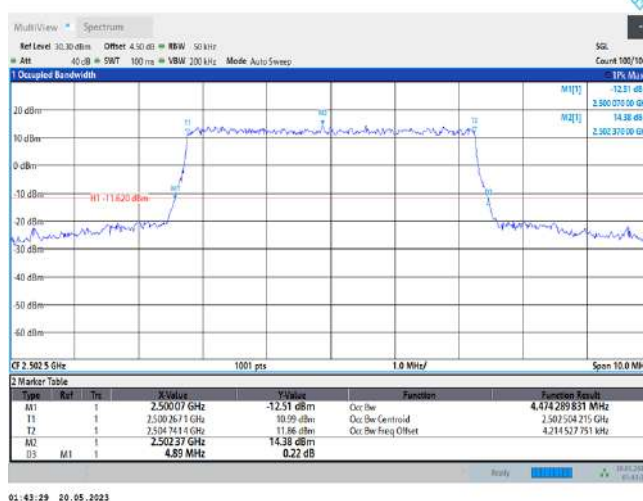
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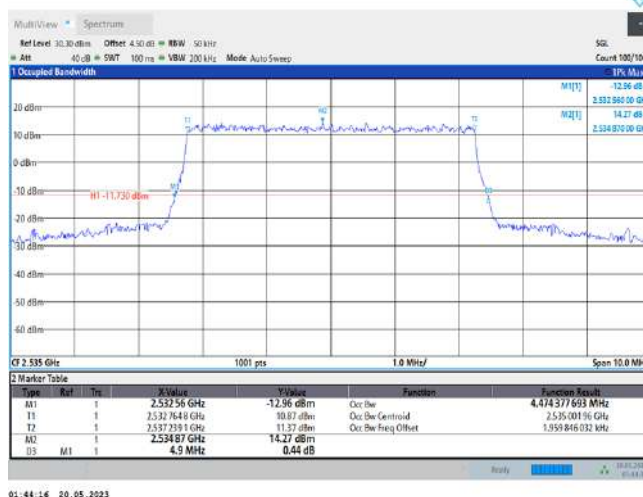
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Test Graphs

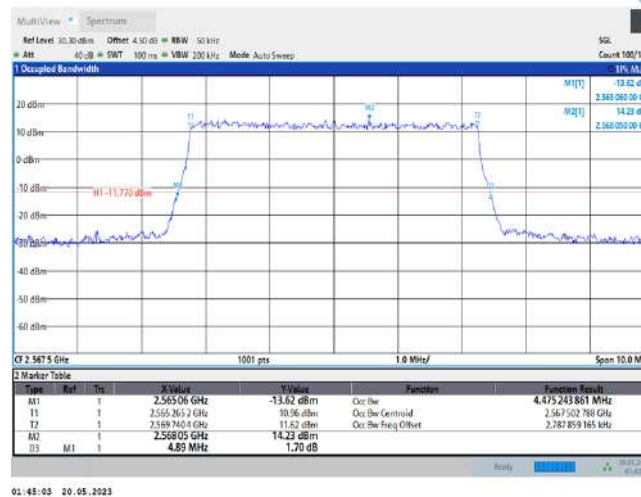
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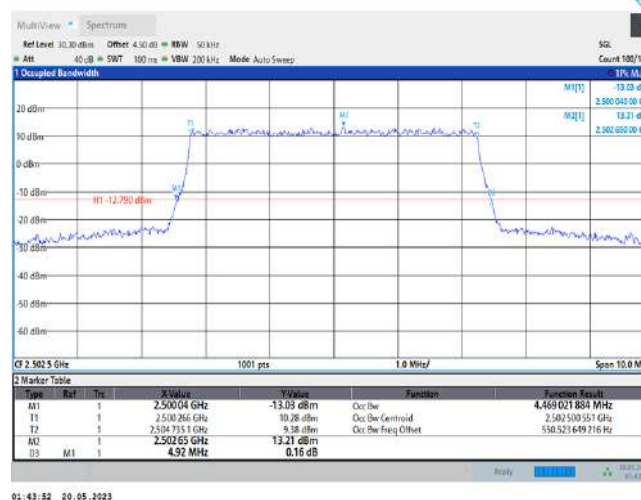
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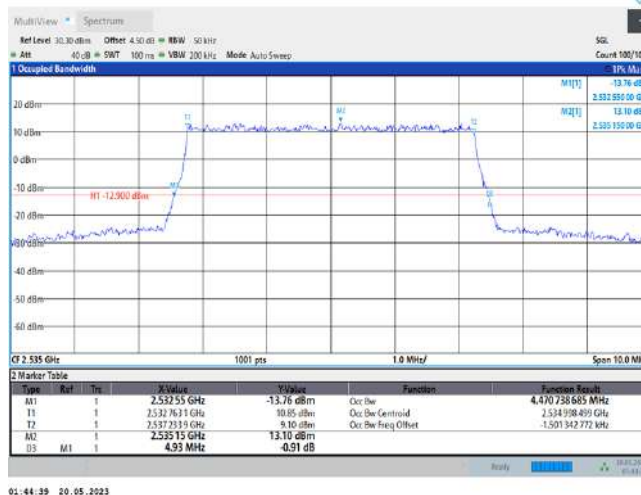
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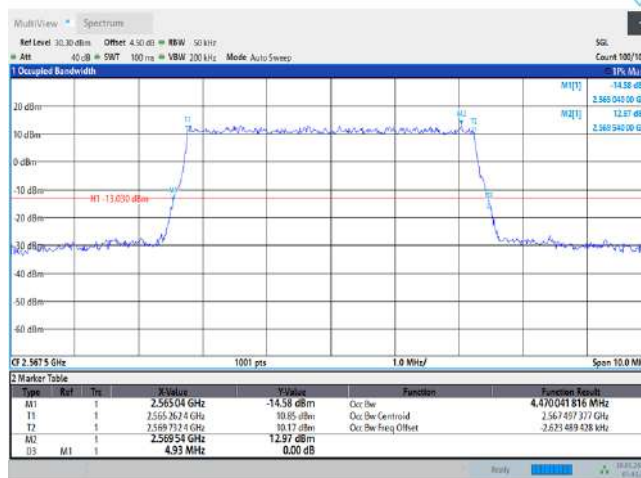
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Band7-5MHz-16QAM-21425-25RB#0



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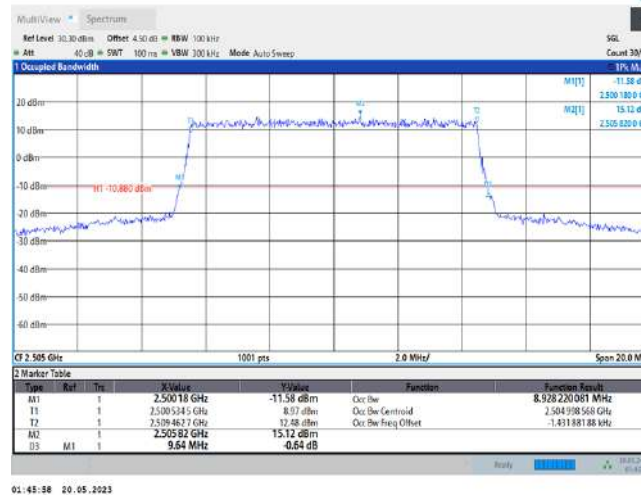
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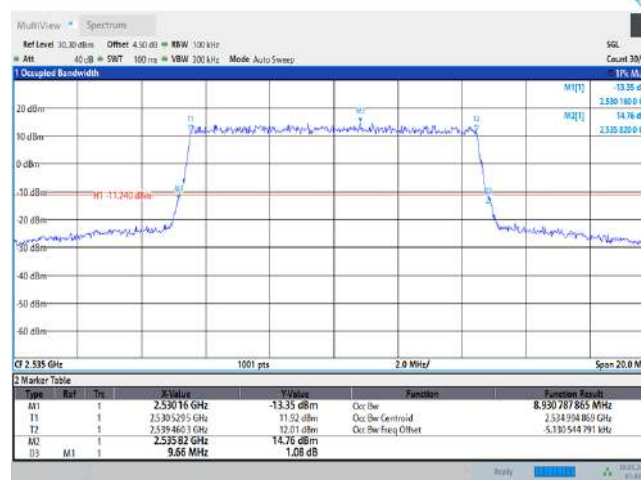
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Band7-10MHz-QPSK-20800-50RB#0



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Band7-10MHz-QPSK-21100-50RB#0



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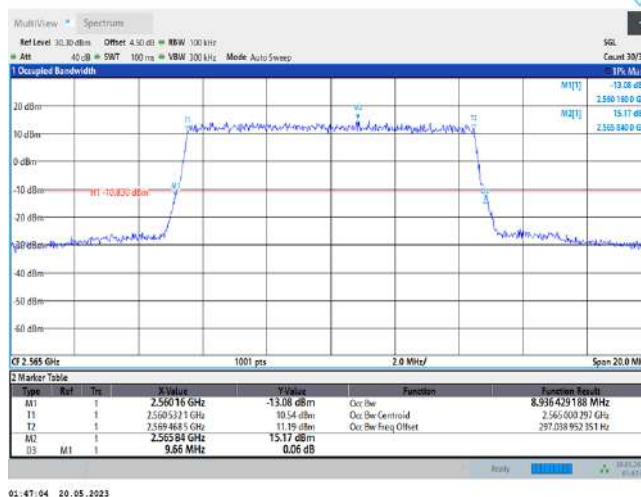
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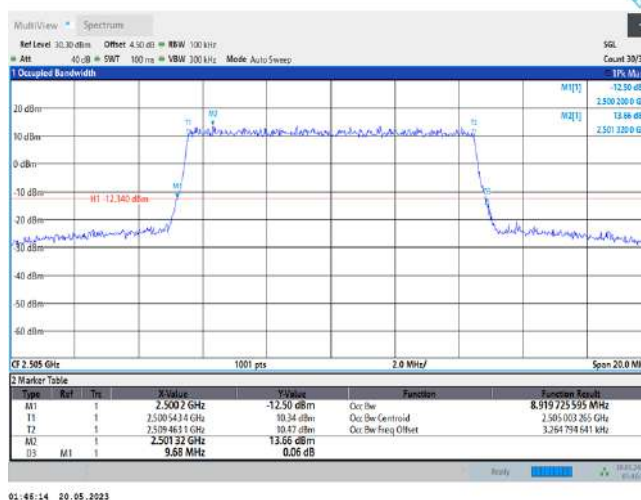
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Band7-10MHz-16QAM-20800-50RB#0



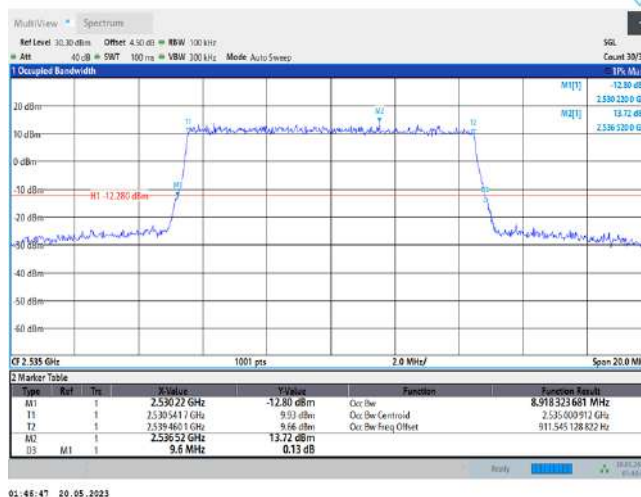
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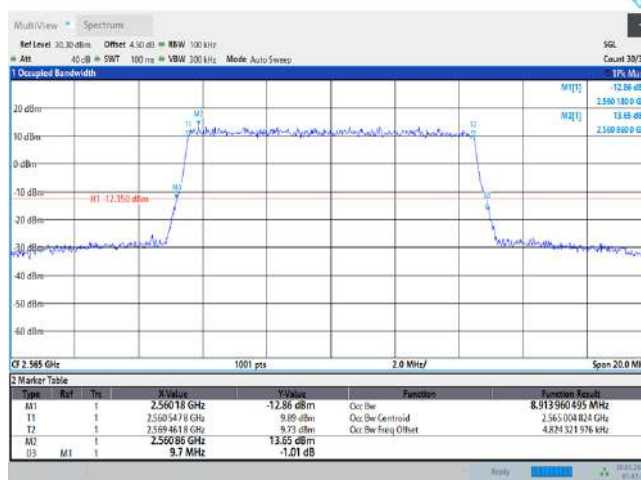
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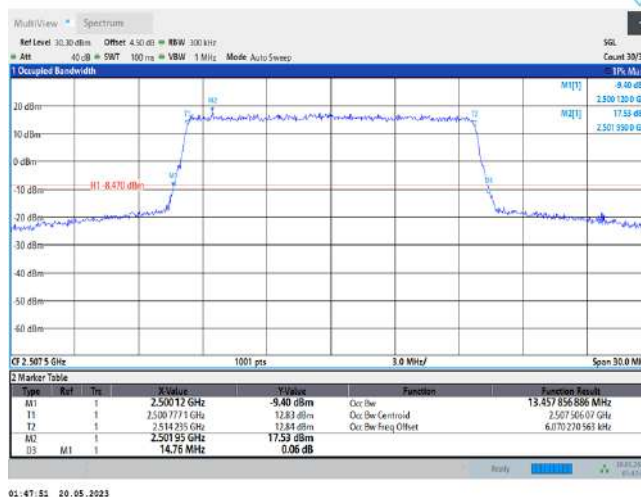
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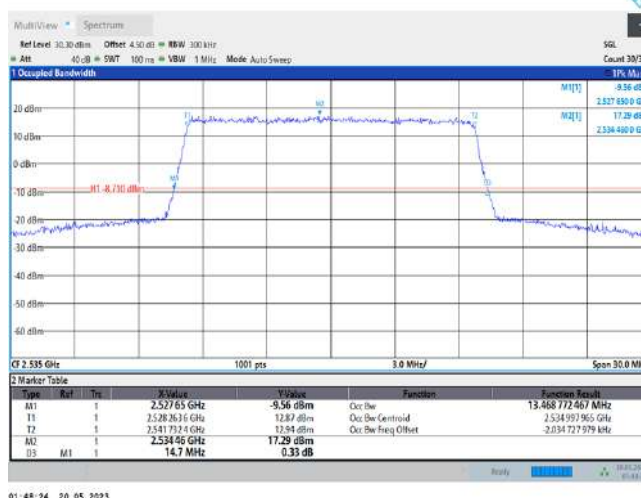
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Band7-15MHz-QPSK-20825-75RB#0



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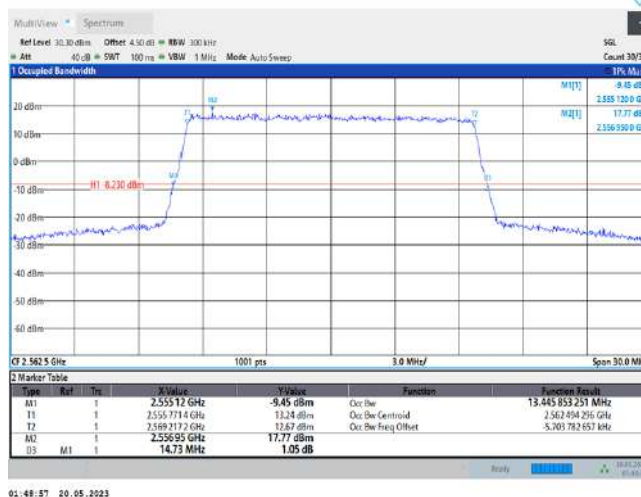
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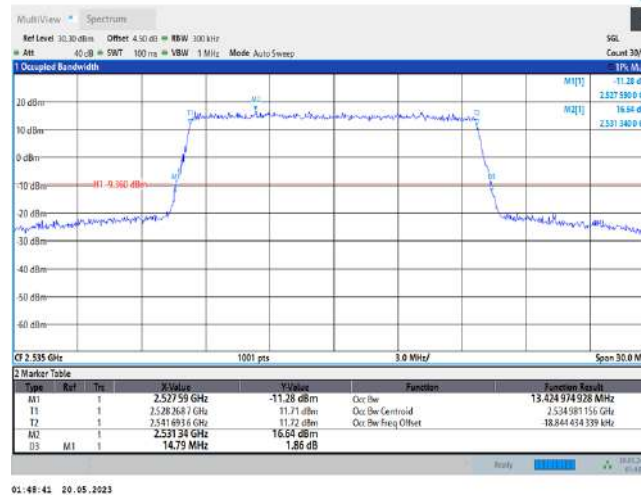
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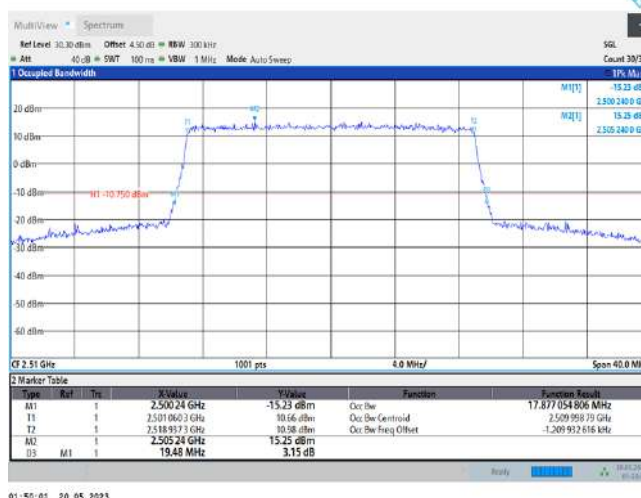
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Band7-20MHz-QPSK-21350-100RB#0



01:50:51 20.05.2023

Band7-20MHz-16QAM-20850-100RB#0



01:50:01 20.05.2023



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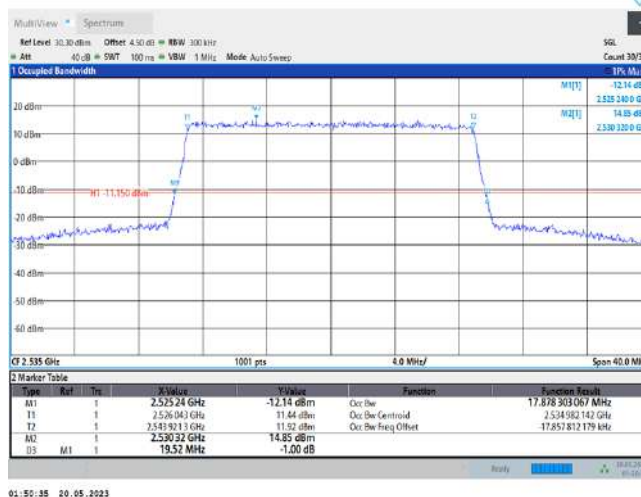
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Band7-20MHz-16QAM-21350-100RB#0



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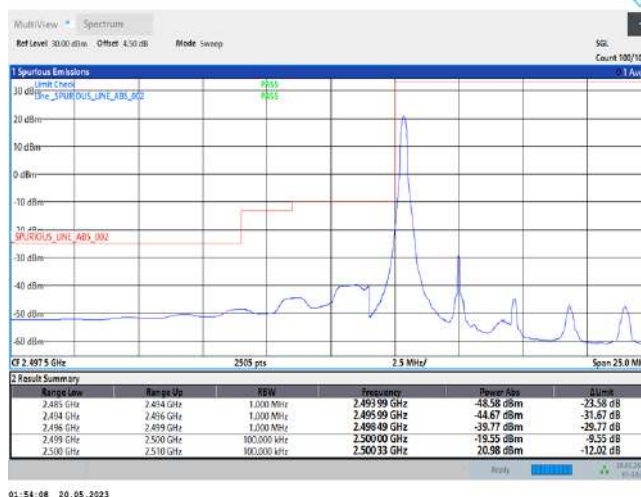
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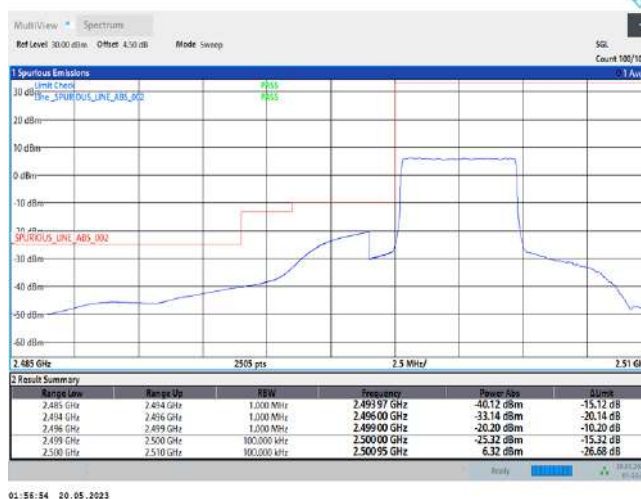
Band Edge

Test Graphs

Band7-5MHz-QPSK-20775-1RB#0



Band7-5MHz-QPSK-20775-25RB#0



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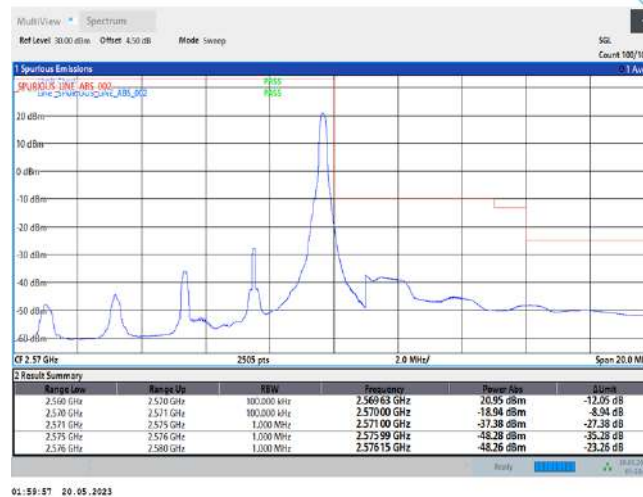
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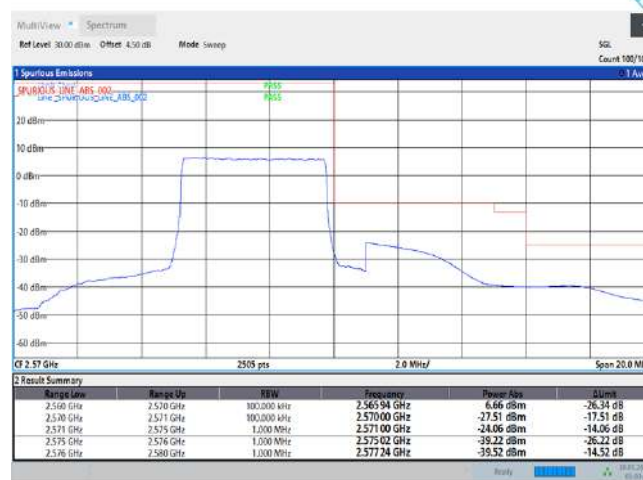
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Band7-5MHz-QPSK-21425-1RB#24



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Band7-5MHz-QPSK-21425-25RB#0



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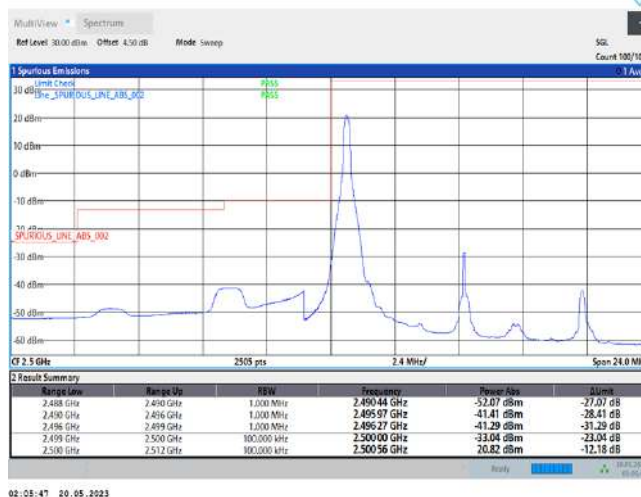
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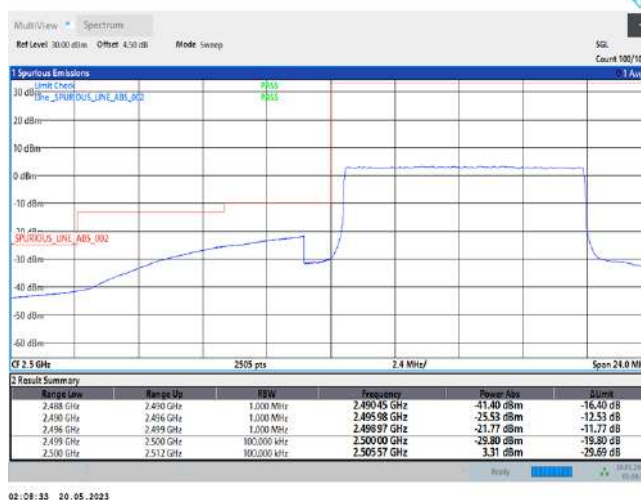
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Band7-10MHz-QPSK-20800-50RB#0



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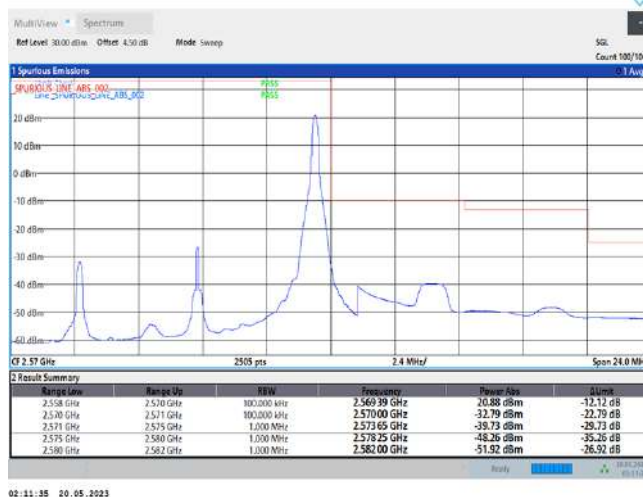
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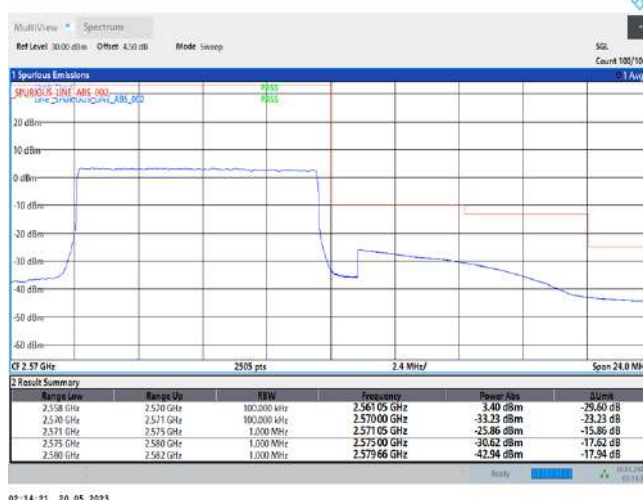
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Band7-10MHz-QPSK-21400-1RB#49



Band7-10MHz-QPSK-21400-50RB#0



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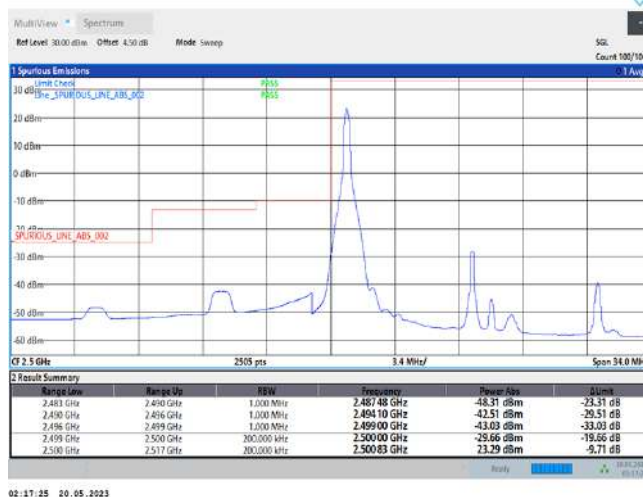
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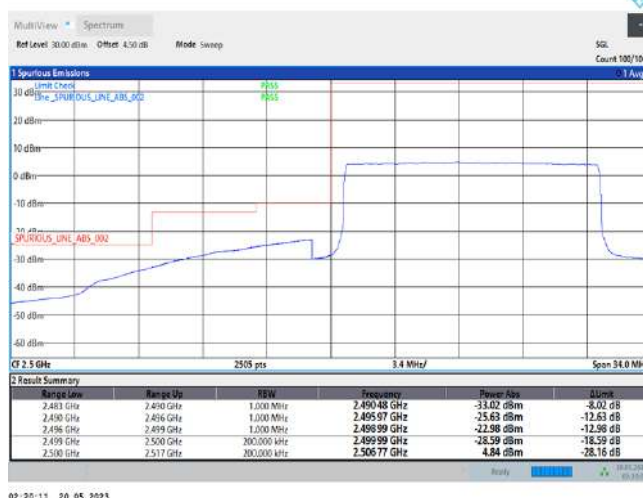
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Band7-15MHz-QPSK-20825-1RB#0



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Band7-15MHz-QPSK-20825-75RB#0



02:20:11 20.05.2023



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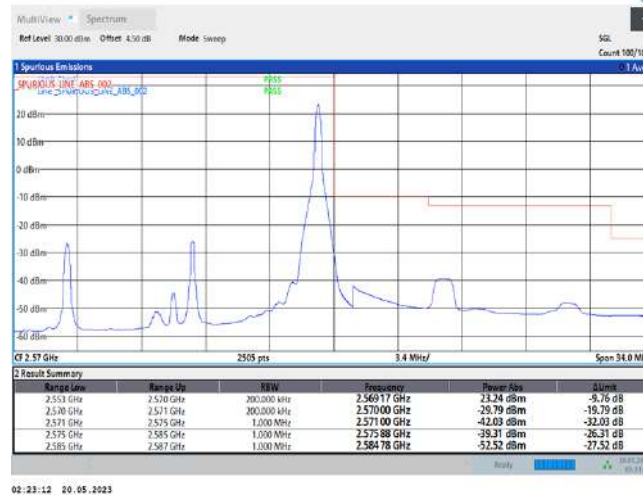
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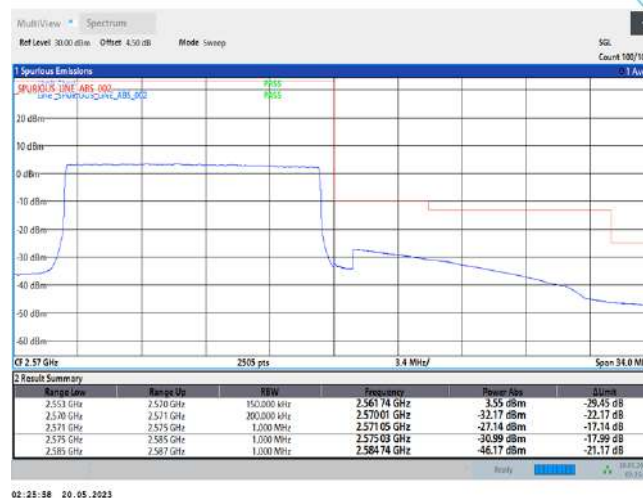
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Band7-15MHz-QPSK-21375-1RB#74



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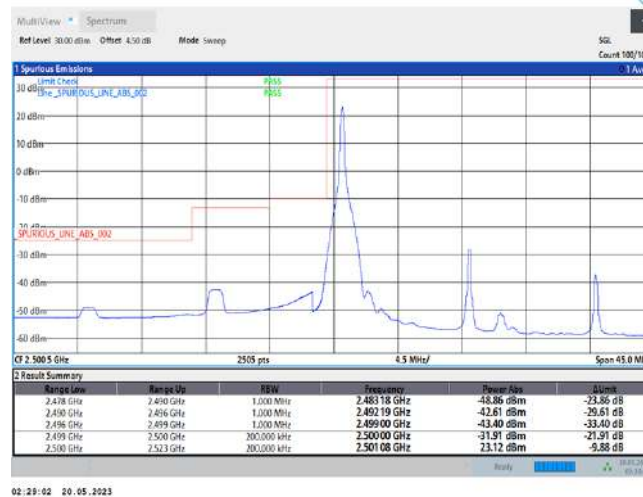
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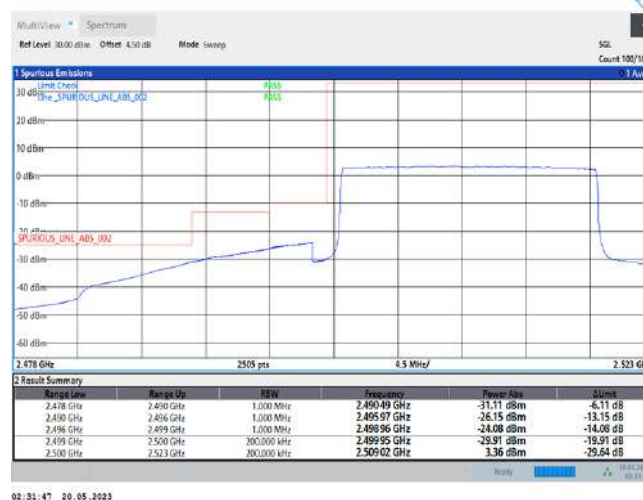
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Band7-20MHz-QPSK-20850-1RB#0



Band7-20MHz-QPSK-20850-100RB#0



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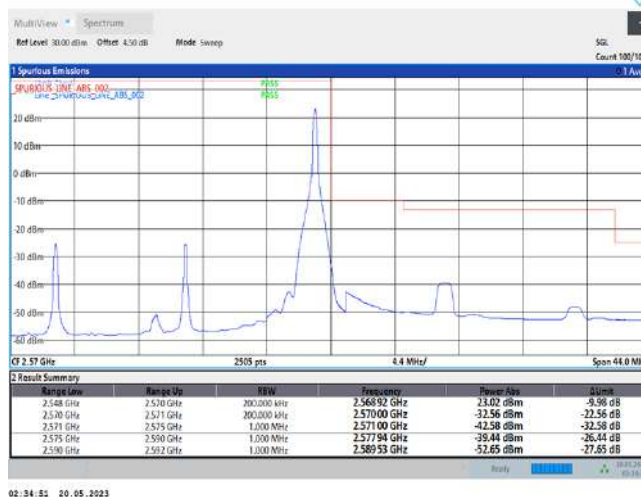
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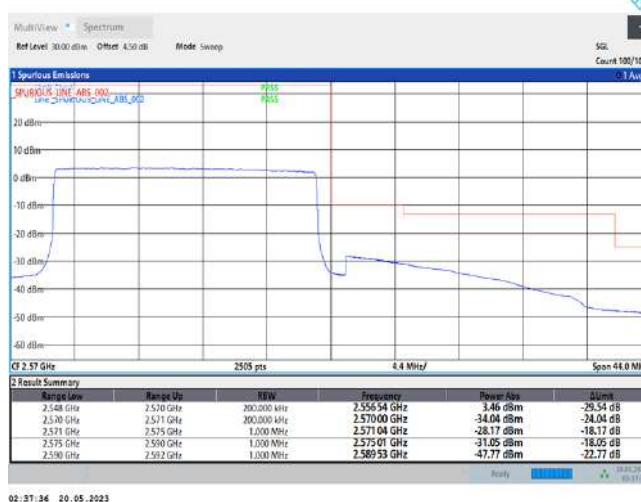
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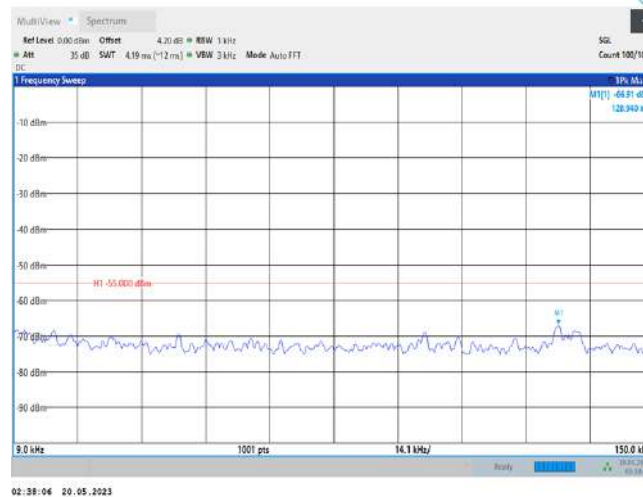
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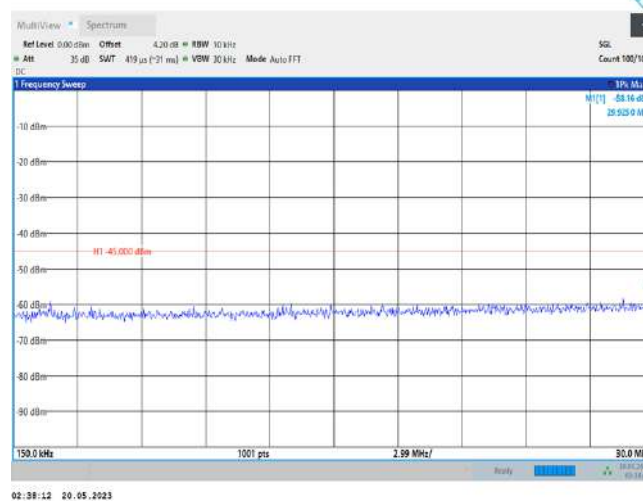
Conducted Spurious Emission

Test Graphs

Band7-20MHz-QPSK-20850-1RB#0-Range1:0.009~0.15MHz



Band7-20MHz-QPSK-20850-1RB#0-Range2:0.15~30MHz



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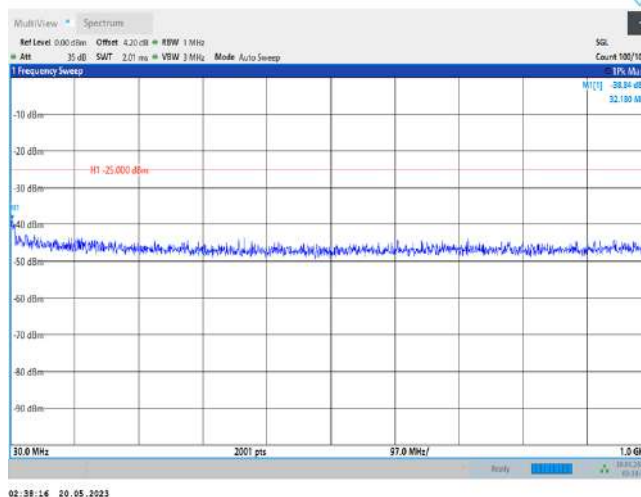
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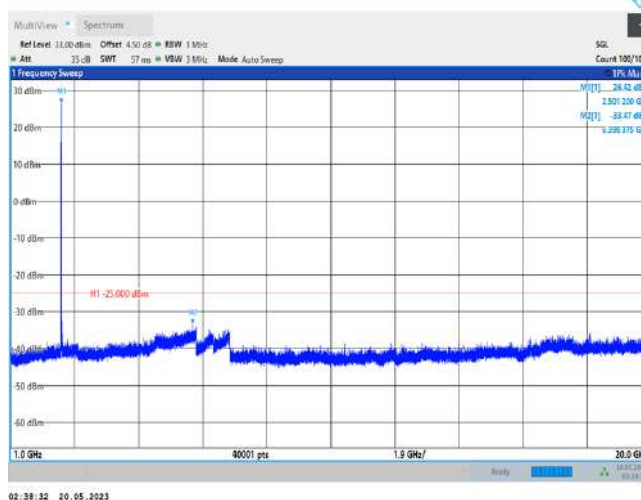
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Band7-20MHz-QPSK-20850-1RB#0-Range3:30~1000MHz



Band7-20MHz-QPSK-20850-1RB#0-Range4:1000~20000MHz



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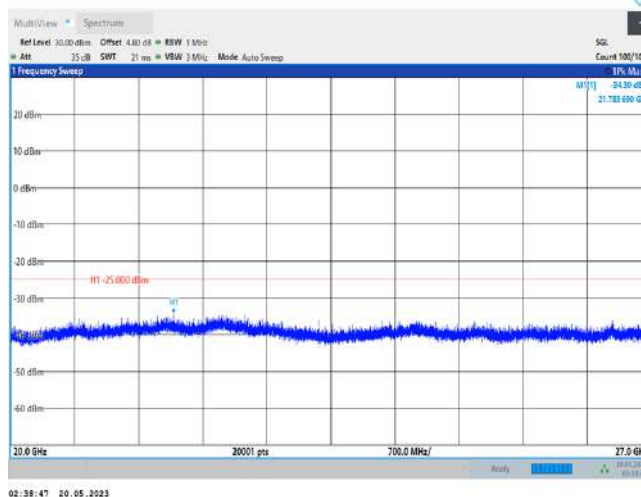
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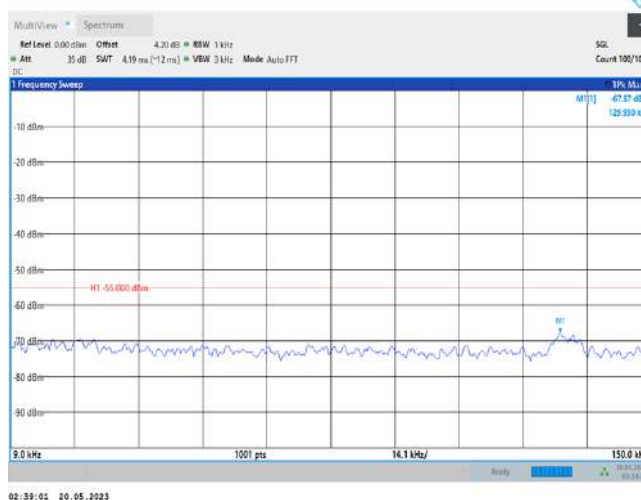
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Band7-20MHz-QPSK-20850-1RB#0-Range5:20000~27000MHz



Band7-20MHz-QPSK-21100-1RB#0-Range1:0.009~0.15MHz



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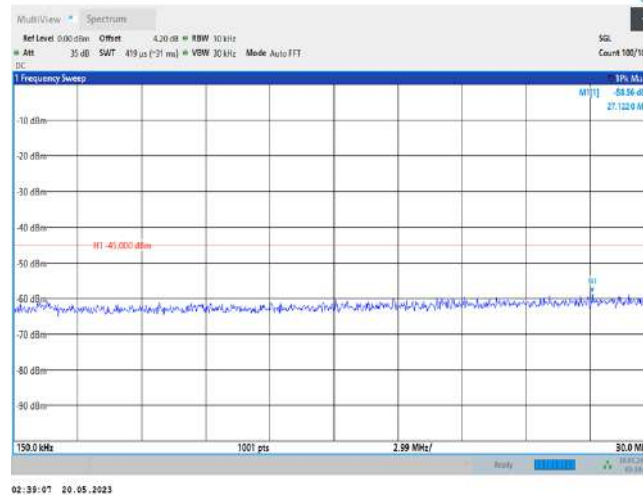
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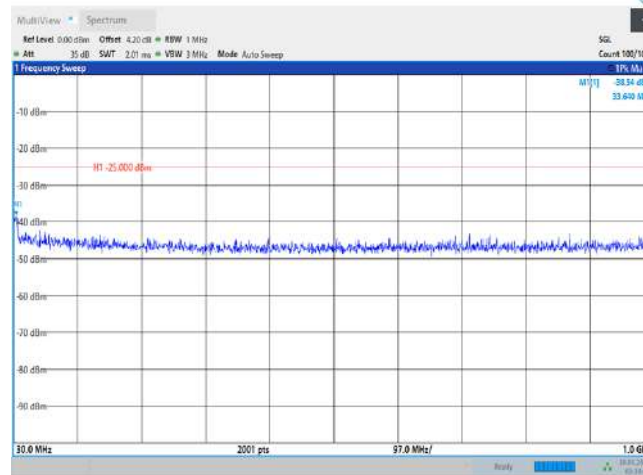
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Band7-20MHz-QPSK-21100-1RB#0-Range2:0.15~30MHz



02:39:07 20.05.2023

Band7-20MHz-QPSK-21100-1RB#0-Range3:30~1000MHz



02:39:11 20.05.2023



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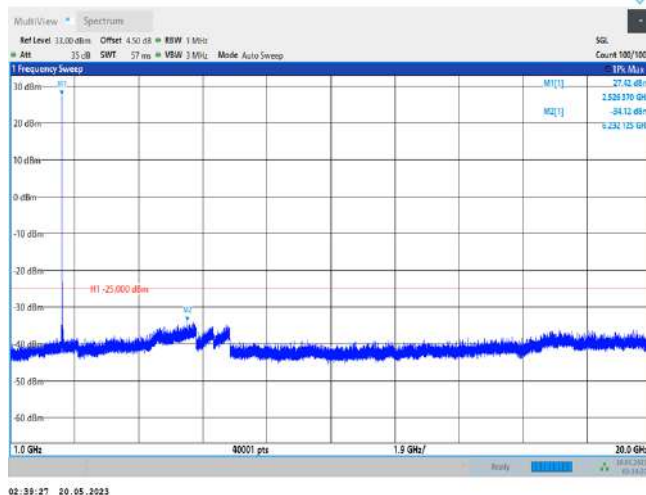
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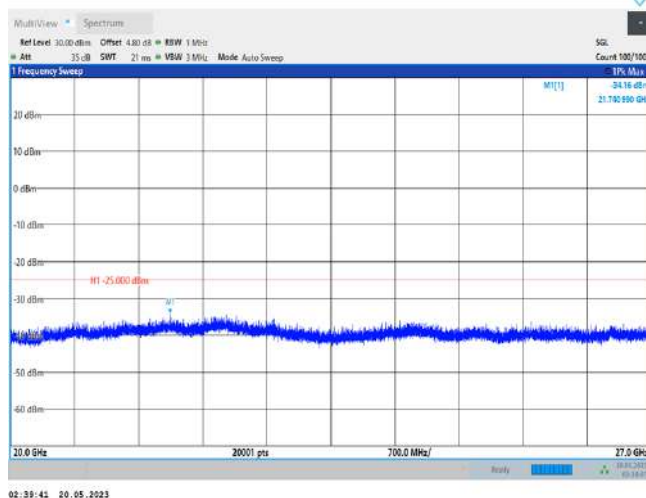
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Band7-20MHz-QPSK-21100-1RB#0-Range4:1000~20000MHz



Band7-20MHz-QPSK-21100-1RB#0-Range5:20000~27000MHz



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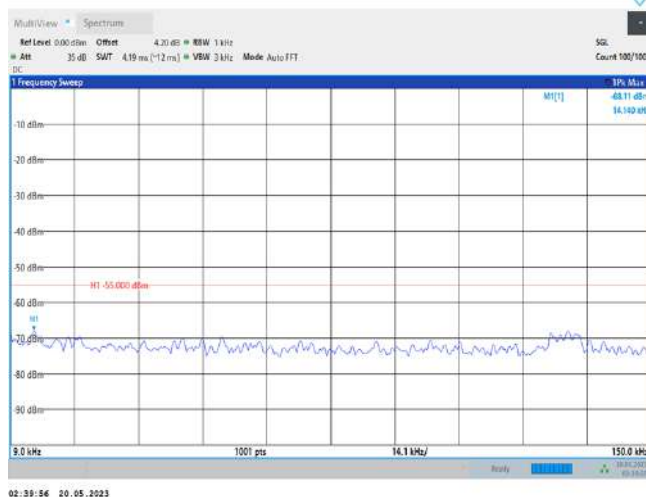
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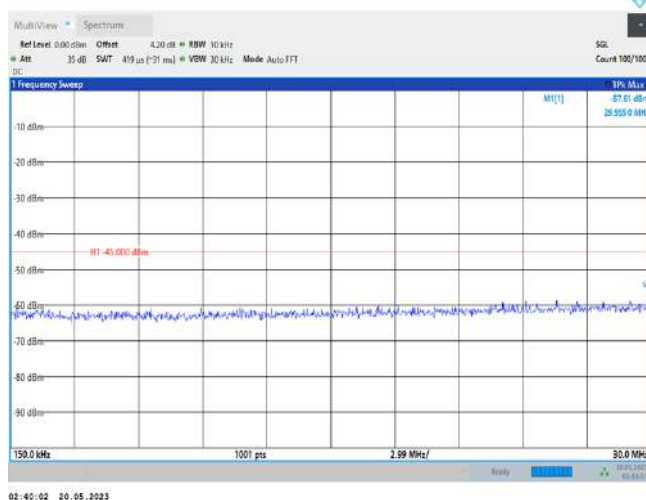
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Band7-20MHz-QPSK-21350-1RB#0-Range1:0.009~0.15MHz



Band7-20MHz-QPSK-21350-1RB#0-Range2:0.15~30MHz



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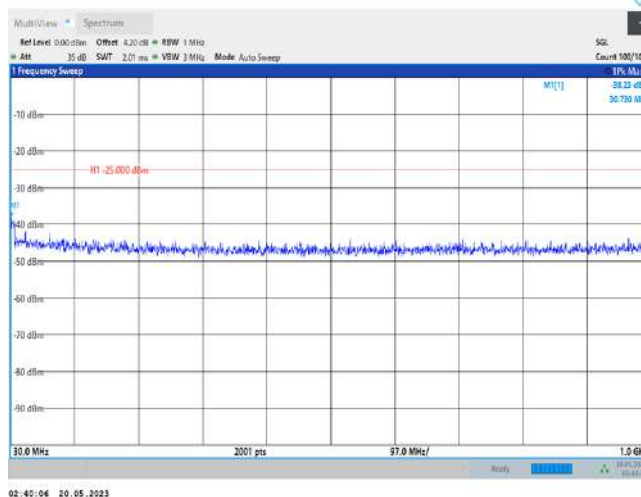
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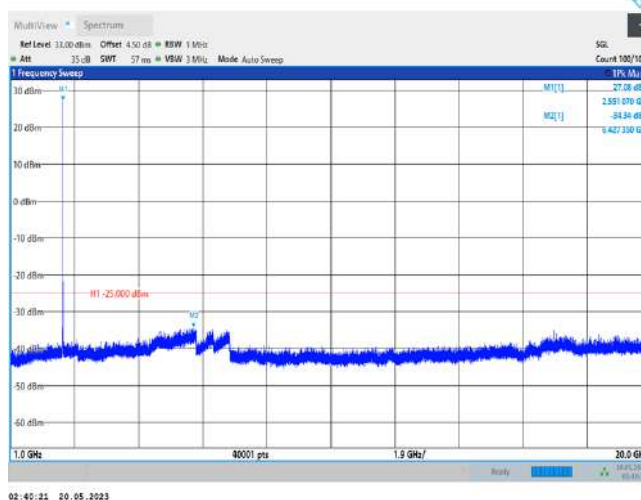
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Band7-20MHz-QPSK-21350-1RB#0-Range3:30~1000MHz



Band7-20MHz-QPSK-21350-1RB#0-Range4:1000~20000MHz



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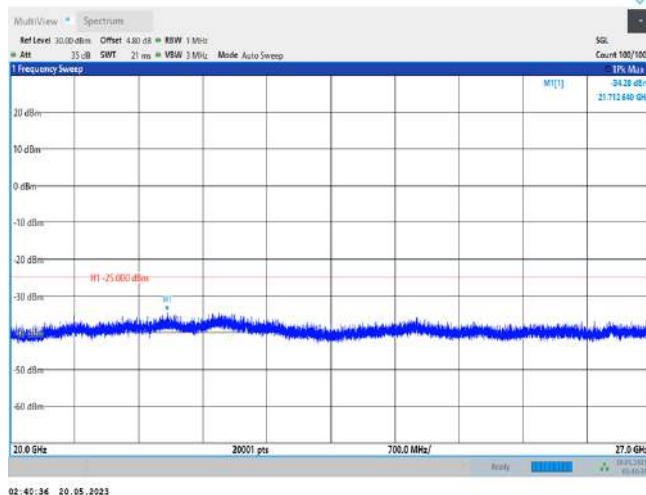
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Band7-20MHz-QPSK-21350-1RB#0-Range5:20000~27000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band 7_20MHz_TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002	62.34	-44.93	32.60	-45.25	-25.00	20.25	296	88	Horizontal
2	7503	45.02	-41.59	36.51	-55.32	-25.00	30.32	265	88	Horizontal
3	10004.5	47.41	-37.13	38.50	-46.48	-25.00	21.48	284	255	Horizontal
4	12505.5	41.53	-35.23	39.11	-49.85	-25.00	24.85	142	174	Horizontal
5	15006.5	44.09	-34.00	39.19	-45.97	-25.00	20.97	263	236	Horizontal
6	17928.5	33.30	-31.17	42.31	-50.81	-25.00	25.81	228	12	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	5002	66.52	-44.93	32.60	-41.07	-25.00	16.07	296	318	Vertical
2	6793	41.95	-42.56	35.79	-60.09	-25.00	35.09	265	357	Vertical
3	10004.5	52.87	-37.13	38.50	-41.02	-25.00	16.02	284	231	Vertical
4	12505.5	41.77	-35.23	39.11	-49.61	-25.00	24.61	142	106	Vertical
5	15006.5	42.80	-34.00	39.19	-47.26	-25.00	22.26	263	169	Vertical
6	17913	32.55	-31.11	42.25	-51.57	-25.00	26.57	228	297	Vertical



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Test Band = LTE Band 7_20MHz_ TM1
Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5052	52.97	-44.60	32.60	-54.29	-25.00	29.29	296	74	Horizontal
2	6201.5	42.36	-42.69	34.60	-60.99	-25.00	35.99	265	174	Horizontal
3	8418.5	38.05	-39.67	37.96	-58.92	-25.00	33.92	284	300	Horizontal
4	10104	42.19	-36.80	38.61	-51.26	-25.00	26.26	142	0	Horizontal
5	13594.5	34.63	-34.71	39.96	-55.38	-25.00	30.38	263	196	Horizontal
6	16391.5	33.26	-31.90	38.17	-55.72	-25.00	30.72	225	217	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	5052	61.12	-44.60	32.60	-46.14	-25.00	21.14	296	340	Vertical
2	6873	41.76	-42.47	35.95	-60.02	-25.00	35.02	265	27	Vertical
3	10104.5	56.21	-36.80	38.61	-37.23	-25.00	12.23	284	297	Vertical
4	12630.5	42.31	-34.72	39.23	-48.44	-25.00	23.44	142	297	Vertical
5	15156.5	42.17	-33.30	39.00	-47.39	-25.00	22.39	263	152	Vertical
6	17326.5	33.13	-31.68	39.91	-53.91	-25.00	28.91	228	2	Vertical



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Test Band = LTE Band 7_20MHz_ TM1

Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5102	52.72	-44.29	32.60	-54.23	-25.00	29.23	196	68	Horizontal
2	6217	42.79	-42.71	34.63	-60.55	-25.00	35.55	265	318	Horizontal
3	8404.5	38.78	-39.70	37.94	-58.24	-25.00	33.24	284	277	Horizontal
4	10204.5	40.66	-36.56	38.72	-52.44	-25.00	27.44	142	2	Horizontal
5	13623	34.99	-34.83	39.97	-55.12	-25.00	30.12	263	212	Horizontal
6	17291	32.87	-31.61	39.76	-54.24	-25.00	29.24	274	89	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	5102	59.59	-44.29	32.60	-47.36	-25.00	22.36	196	297	Vertical
2	6871	41.88	-42.47	35.94	-59.91	-25.00	34.91	265	21	Vertical
3	9424	38.06	-38.16	38.56	-56.80	-25.00	31.80	254	0	Vertical
4	10204.5	55.64	-36.56	38.72	-37.46	-25.00	12.46	142	233	Vertical
5	12755.5	42.20	-35.10	39.36	-48.81	-25.00	23.81	263	86	Vertical
6	15306.5	38.57	-33.87	38.80	-51.76	-25.00	26.76	228	107	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
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	8.50	0.003353	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	1.20	0.000473	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	4.20	0.001657	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	-0.70	-0.000276	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	7.80	0.003077	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	10.30	0.004063	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	7.30	0.002880	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	6.30	0.002485	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	5.20	0.002051	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	7.90	0.003116	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	5.70	0.002249	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-8.90	-0.003511	PASS

---End of Attachment---



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