

# 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	22.82	25.82	33	PASS
Band7	5MHz	QPSK	20775	1RB#12	22.87	25.87	33	PASS
Band7	5MHz	QPSK	20775	1RB#24	22.85	25.85	33	PASS
Band7	5MHz	QPSK	20775	25RB#0	21.77	24.77	33	PASS
Band7	5MHz	QPSK	21100	1RB#0	22.91	25.91	33	PASS
Band7	5MHz	QPSK	21100	1RB#12	22.86	25.86	33	PASS
Band7	5MHz	QPSK	21100	1RB#24	22.88	25.88	33	PASS
Band7	5MHz	QPSK	21100	25RB#0	21.99	24.99	33	PASS
Band7	5MHz	QPSK	21425	1RB#0	22.74	25.74	33	PASS
Band7	5MHz	QPSK	21425	1RB#12	22.69	25.69	33	PASS
Band7	5MHz	QPSK	21425	1RB#24	22.76	25.76	33	PASS
Band7	5MHz	QPSK	21425	25RB#0	21.81	24.81	33	PASS
Band7	5MHz	16QAM	20775	1RB#0	22.03	25.03	33	PASS
Band7	5MHz	16QAM	20775	1RB#12	22.09	25.09	33	PASS
Band7	5MHz	16QAM	20775	1RB#24	22.05	25.05	33	PASS
Band7	5MHz	16QAM	20775	25RB#0	20.82	23.82	33	PASS
Band7	5MHz	16QAM	21100	1RB#0	22.07	25.07	33	PASS
Band7	5MHz	16QAM	21100	1RB#12	22.06	25.06	33	PASS
Band7	5MHz	16QAM	21100	1RB#24	22.10	25.1	33	PASS
Band7	5MHz	16QAM	21100	25RB#0	20.98	23.98	33	PASS
Band7	5MHz	16QAM	21425	1RB#0	21.93	24.93	33	PASS
Band7	5MHz	16QAM	21425	1RB#12	22.02	25.02	33	PASS
Band7	5MHz	16QAM	21425	1RB#24	21.92	24.92	33	PASS
Band7	5MHz	16QAM	21425	25RB#0	20.82	23.82	33	PASS
Band7	5MHz	64QAM	20775	1RB#0	21.09	24.09	33	PASS
Band7	5MHz	64QAM	20775	1RB#12	21.01	24.01	33	PASS
Band7	5MHz	64QAM	20775	1RB#24	20.88	23.88	33	PASS



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Band7	5MHz	64QAM	20775	25RB#0	19.86	22.86	33	PASS
Band7	5MHz	64QAM	21100	1RB#0	20.97	23.97	33	PASS
Band7	5MHz	64QAM	21100	1RB#12	21.12	24.12	33	PASS
Band7	5MHz	64QAM	21100	1RB#24	21.03	24.03	33	PASS
Band7	5MHz	64QAM	21100	25RB#0	19.96	22.96	33	PASS
Band7	5MHz	64QAM	21425	1RB#0	20.89	23.89	33	PASS
Band7	5MHz	64QAM	21425	1RB#12	20.97	23.97	33	PASS
Band7	5MHz	64QAM	21425	1RB#24	20.89	23.89	33	PASS
Band7	5MHz	64QAM	21425	25RB#0	19.80	22.8	33	PASS
Band7	10MHz	QPSK	20800	1RB#0	22.86	25.86	33	PASS
Band7	10MHz	QPSK	20800	1RB#24	22.73	25.73	33	PASS
Band7	10MHz	QPSK	20800	1RB#49	22.79	25.79	33	PASS
Band7	10MHz	QPSK	20800	50RB#0	21.86	24.86	33	PASS
Band7	10MHz	QPSK	21100	1RB#0	22.87	25.87	33	PASS
Band7	10MHz	QPSK	21100	1RB#24	22.85	25.85	33	PASS
Band7	10MHz	QPSK	21100	1RB#49	22.91	25.91	33	PASS
Band7	10MHz	QPSK	21100	50RB#0	21.98	24.98	33	PASS
Band7	10MHz	QPSK	21400	1RB#0	22.78	25.78	33	PASS
Band7	10MHz	QPSK	21400	1RB#24	22.71	25.71	33	PASS
Band7	10MHz	QPSK	21400	1RB#49	22.69	25.69	33	PASS
Band7	10MHz	QPSK	21400	50RB#0	21.81	24.81	33	PASS
Band7	10MHz	16QAM	20800	1RB#0	22.06	25.06	33	PASS
Band7	10MHz	16QAM	20800	1RB#24	21.95	24.95	33	PASS
Band7	10MHz	16QAM	20800	1RB#49	22.01	25.01	33	PASS
Band7	10MHz	16QAM	20800	50RB#0	20.83	23.83	33	PASS
Band7	10MHz	16QAM	21100	1RB#0	22.18	25.18	33	PASS
Band7	10MHz	16QAM	21100	1RB#24	22.18	25.18	33	PASS
Band7	10MHz	16QAM	21100	1RB#49	22.09	25.09	33	PASS
Band7	10MHz	16QAM	21100	50RB#0	20.97	23.97	33	PASS
Band7	10MHz	16QAM	21400	1RB#0	22.02	25.02	33	PASS
Band7	10MHz	16QAM	21400	1RB#24	21.87	24.87	33	PASS
Band7	10MHz	16QAM	21400	1RB#49	22.02	25.02	33	PASS



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Band7	10MHz	16QAM	21400	50RB#0	20.85	23.85	33	PASS
Band7	10MHz	64QAM	20800	1RB#0	20.91	23.91	33	PASS
Band7	10MHz	64QAM	20800	1RB#24	20.89	23.89	33	PASS
Band7	10MHz	64QAM	20800	1RB#49	20.95	23.95	33	PASS
Band7	10MHz	64QAM	20800	50RB#0	19.85	22.85	33	PASS
Band7	10MHz	64QAM	21100	1RB#0	21.07	24.07	33	PASS
Band7	10MHz	64QAM	21100	1RB#24	21.07	24.07	33	PASS
Band7	10MHz	64QAM	21100	1RB#49	21.13	24.13	33	PASS
Band7	10MHz	64QAM	21100	50RB#0	19.99	22.99	33	PASS
Band7	10MHz	64QAM	21400	1RB#0	20.96	23.96	33	PASS
Band7	10MHz	64QAM	21400	1RB#24	20.98	23.98	33	PASS
Band7	10MHz	64QAM	21400	1RB#49	20.95	23.95	33	PASS
Band7	10MHz	64QAM	21400	50RB#0	19.81	22.81	33	PASS
Band7	15MHz	QPSK	20825	1RB#0	22.85	25.85	33	PASS
Band7	15MHz	QPSK	20825	1RB#38	22.76	25.76	33	PASS
Band7	15MHz	QPSK	20825	1RB#74	22.84	25.84	33	PASS
Band7	15MHz	QPSK	20825	75RB#0	21.86	24.86	33	PASS
Band7	15MHz	QPSK	21100	1RB#0	22.87	25.87	33	PASS
Band7	15MHz	QPSK	21100	1RB#38	22.87	25.87	33	PASS
Band7	15MHz	QPSK	21100	1RB#74	22.93	25.93	33	PASS
Band7	15MHz	QPSK	21100	75RB#0	21.94	24.94	33	PASS
Band7	15MHz	QPSK	21375	1RB#0	22.78	25.78	33	PASS
Band7	15MHz	QPSK	21375	1RB#38	22.74	25.74	33	PASS
Band7	15MHz	QPSK	21375	1RB#74	22.75	25.75	33	PASS
Band7	15MHz	QPSK	21375	75RB#0	21.83	24.83	33	PASS
Band7	15MHz	16QAM	20825	1RB#0	22.04	25.04	33	PASS
Band7	15MHz	16QAM	20825	1RB#38	22.14	25.14	33	PASS
Band7	15MHz	16QAM	20825	1RB#74	22.16	25.16	33	PASS
Band7	15MHz	16QAM	20825	75RB#0	20.87	23.87	33	PASS
Band7	15MHz	16QAM	21100	1RB#0	22.02	25.02	33	PASS
Band7	15MHz	16QAM	21100	1RB#38	22.14	25.14	33	PASS
Band7	15MHz	16QAM	21100	1RB#74	22.27	25.27	33	PASS



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Band7	15MHz	16QAM	21100	75RB#0	20.97	23.97	33	PASS
Band7	15MHz	16QAM	21375	1RB#0	22.05	25.05	33	PASS
Band7	15MHz	16QAM	21375	1RB#38	22.04	25.04	33	PASS
Band7	15MHz	16QAM	21375	1RB#74	21.92	24.92	33	PASS
Band7	15MHz	16QAM	21375	75RB#0	20.81	23.81	33	PASS
Band7	15MHz	64QAM	20825	1RB#0	20.99	23.99	33	PASS
Band7	15MHz	64QAM	20825	1RB#38	20.99	23.99	33	PASS
Band7	15MHz	64QAM	20825	1RB#74	21.02	24.02	33	PASS
Band7	15MHz	64QAM	20825	75RB#0	19.87	22.87	33	PASS
Band7	15MHz	64QAM	21100	1RB#0	21.12	24.12	33	PASS
Band7	15MHz	64QAM	21100	1RB#38	21.12	24.12	33	PASS
Band7	15MHz	64QAM	21100	1RB#74	21.09	24.09	33	PASS
Band7	15MHz	64QAM	21100	75RB#0	19.98	22.98	33	PASS
Band7	15MHz	64QAM	21375	1RB#0	21.07	24.07	33	PASS
Band7	15MHz	64QAM	21375	1RB#38	20.95	23.95	33	PASS
Band7	15MHz	64QAM	21375	1RB#74	20.89	23.89	33	PASS
Band7	15MHz	64QAM	21375	75RB#0	19.85	22.85	33	PASS
Band7	20MHz	QPSK	20850	1RB#0	22.81	25.81	33	PASS
Band7	20MHz	QPSK	20850	1RB#49	22.80	25.8	33	PASS
Band7	20MHz	QPSK	20850	1RB#99	22.84	25.84	33	PASS
Band7	20MHz	QPSK	20850	100RB#0	21.91	24.91	33	PASS
Band7	20MHz	QPSK	21100	1RB#0	22.84	25.84	33	PASS
Band7	20MHz	QPSK	21100	1RB#49	22.89	25.89	33	PASS
Band7	20MHz	QPSK	21100	1RB#99	22.91	25.91	33	PASS
Band7	20MHz	QPSK	21100	100RB#0	21.98	24.98	33	PASS
Band7	20MHz	QPSK	21350	1RB#0	22.78	25.78	33	PASS
Band7	20MHz	QPSK	21350	1RB#49	22.75	25.75	33	PASS
Band7	20MHz	QPSK	21350	1RB#99	22.71	25.71	33	PASS
Band7	20MHz	QPSK	21350	100RB#0	21.83	24.83	33	PASS
Band7	20MHz	16QAM	20850	1RB#0	22.00	25	33	PASS
Band7	20MHz	16QAM	20850	1RB#49	22.00	25	33	PASS
Band7	20MHz	16QAM	20850	1RB#99	22.10	25.1	33	PASS



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Band7	20MHz	16QAM	20850	100RB#0	20.89	23.89	33	PASS
Band7	20MHz	16QAM	21100	1RB#0	22.07	25.07	33	PASS
Band7	20MHz	16QAM	21100	1RB#49	22.09	25.09	33	PASS
Band7	20MHz	16QAM	21100	1RB#99	22.12	25.12	33	PASS
Band7	20MHz	16QAM	21100	100RB#0	20.97	23.97	33	PASS
Band7	20MHz	16QAM	21350	1RB#0	22.05	25.05	33	PASS
Band7	20MHz	16QAM	21350	1RB#49	21.97	24.97	33	PASS
Band7	20MHz	16QAM	21350	1RB#99	21.85	24.85	33	PASS
Band7	20MHz	16QAM	21350	100RB#0	20.84	23.84	33	PASS
Band7	20MHz	64QAM	20850	1RB#0	20.85	23.85	33	PASS
Band7	20MHz	64QAM	20850	1RB#49	20.99	23.99	33	PASS
Band7	20MHz	64QAM	20850	1RB#99	21.07	24.07	33	PASS
Band7	20MHz	64QAM	20850	100RB#0	19.90	22.9	33	PASS
Band7	20MHz	64QAM	21100	1RB#0	21.09	24.09	33	PASS
Band7	20MHz	64QAM	21100	1RB#49	21.10	24.1	33	PASS
Band7	20MHz	64QAM	21100	1RB#99	21.03	24.03	33	PASS
Band7	20MHz	64QAM	21100	100RB#0	19.96	22.96	33	PASS
Band7	20MHz	64QAM	21350	1RB#0	21.01	24.01	33	PASS
Band7	20MHz	64QAM	21350	1RB#49	20.94	23.94	33	PASS
Band7	20MHz	64QAM	21350	1RB#99	20.86	23.86	33	PASS
Band7	20MHz	64QAM	21350	100RB#0	19.85	22.85	33	PASS



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## Peak-to-Average Ratio(CCDF)

### Test Result

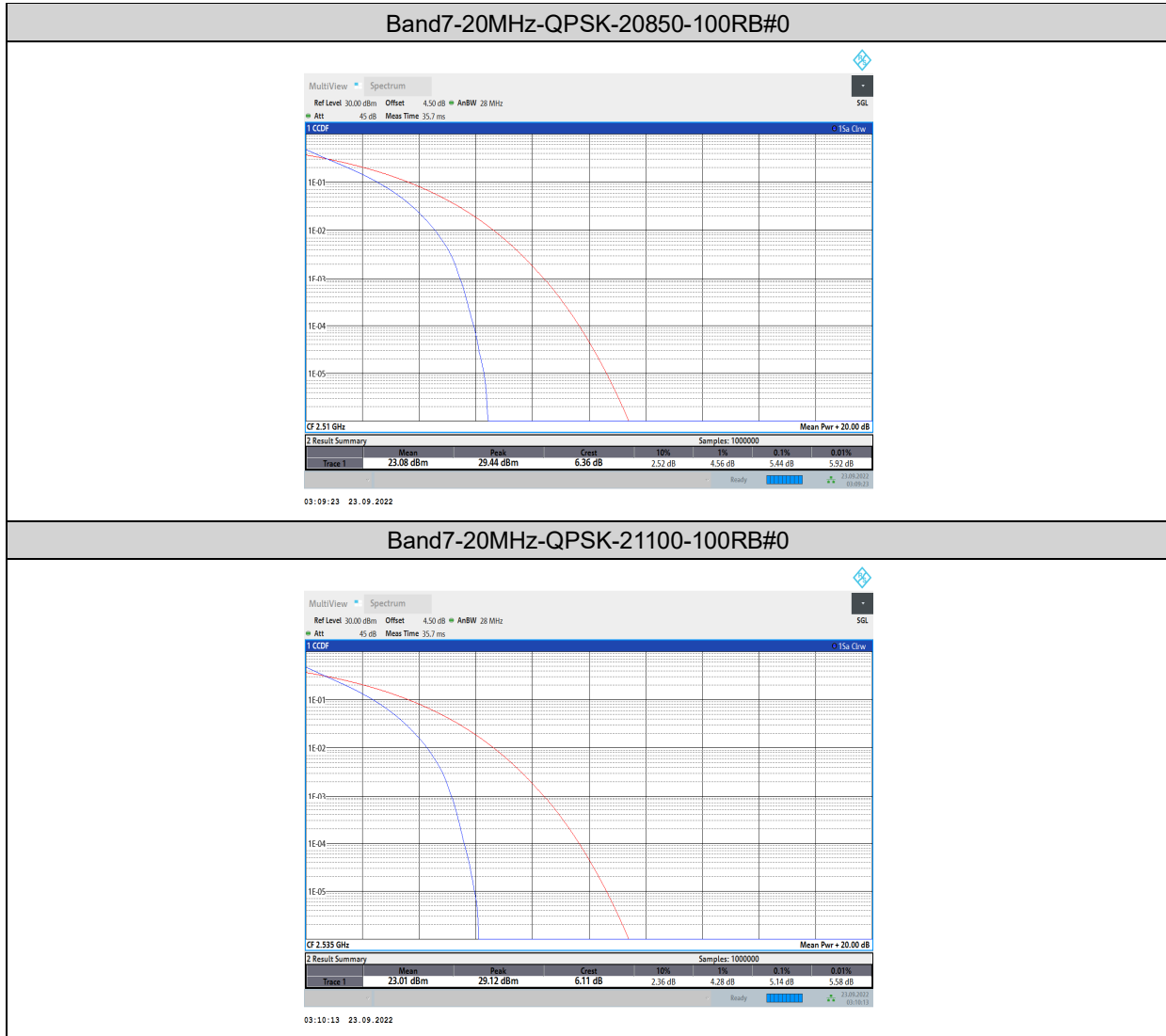
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	5.44	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.14	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.40	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	6.30	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	6.02	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	6.34	13	PASS
Band7	20MHz	64QAM	20850	100RB#0	6.66	13	PASS
Band7	20MHz	64QAM	21100	100RB#0	6.42	13	PASS
Band7	20MHz	64QAM	21350	100RB#0	6.56	13	PASS



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Test Graphs



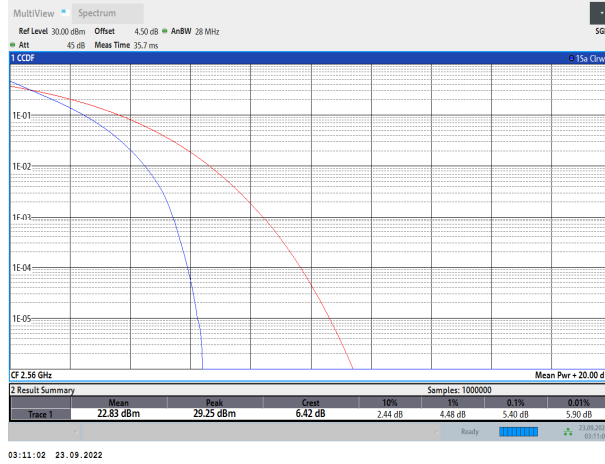
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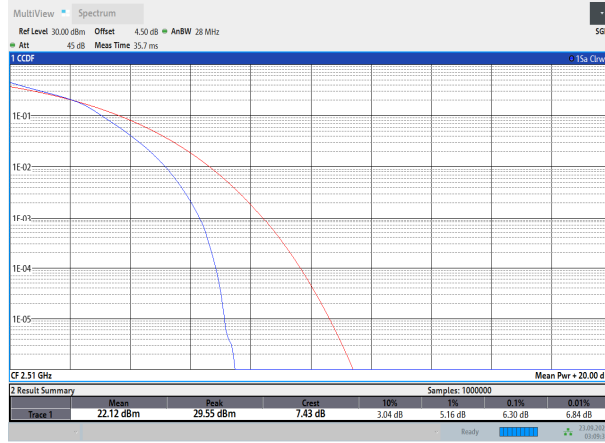


Band7-20MHz-QPSK-21350-100RB#0



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



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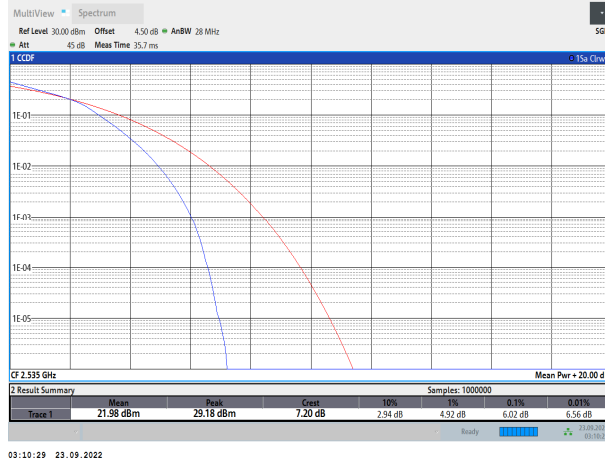


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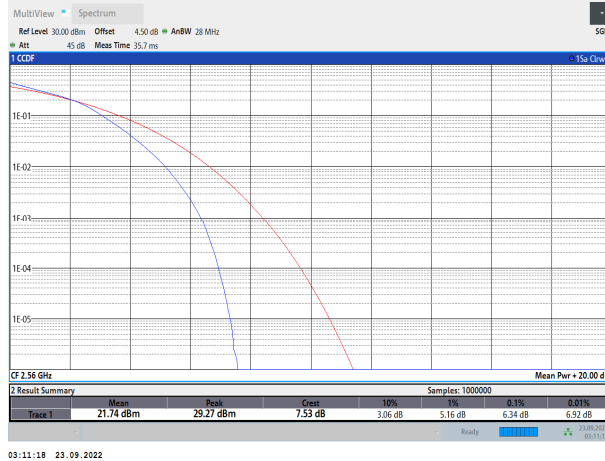
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Band7-20MHz-16QAM-21100-100RB#0



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

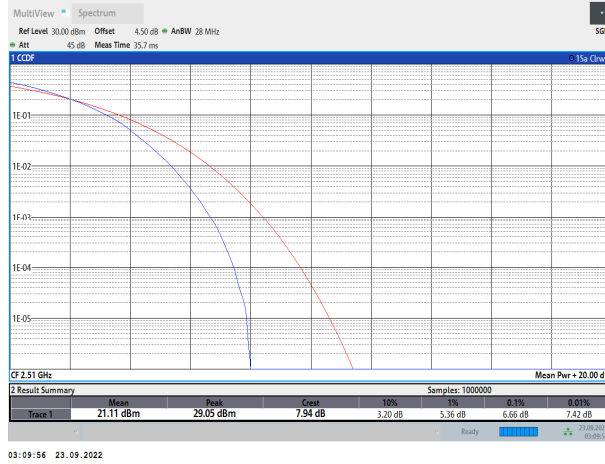


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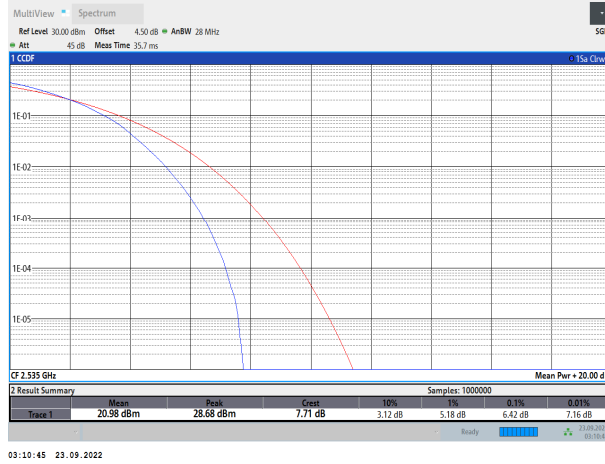
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Band7-20MHz-64QAM-20850-100RB#0



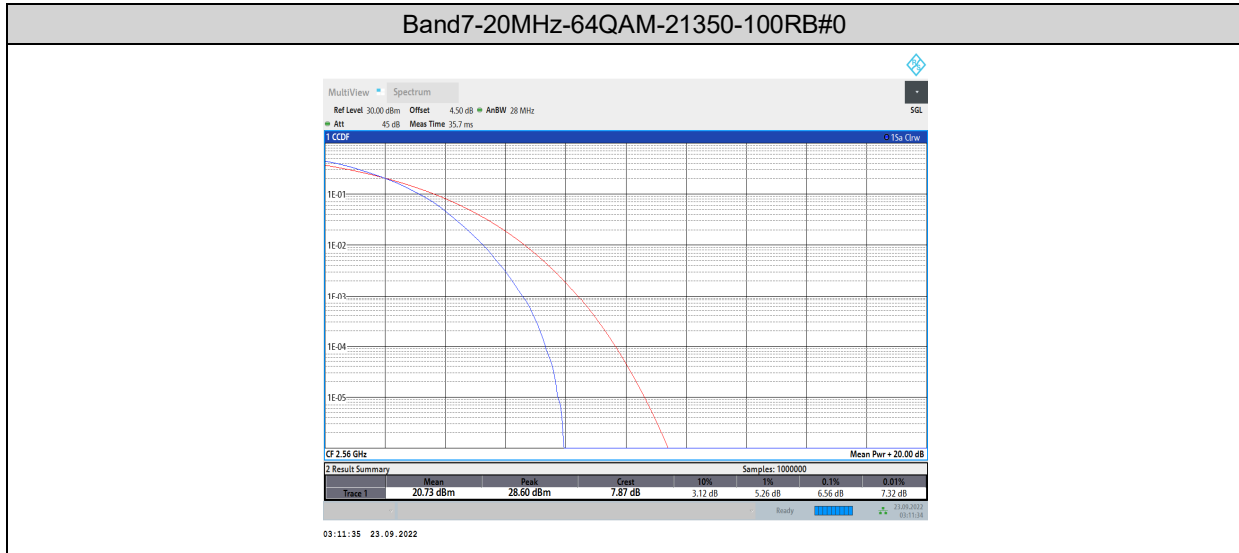
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## Modulation Characteristics

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band7	20MHz	QPSK	21100	100RB#0	PASS	PASS
Band7	20MHz	16QAM	21100	100RB#0	PASS	PASS
Band7	20MHz	64QAM	21100	100RB#0	PASS	PASS



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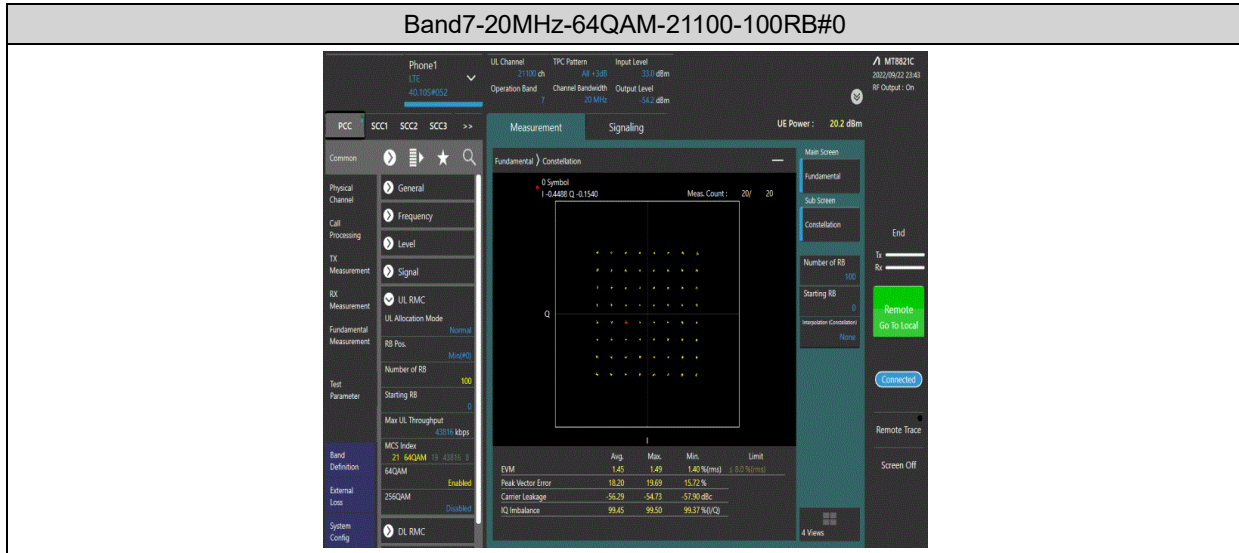
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Test Graphs



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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	4.471	4.88	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.472	4.90	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.47	4.89	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.471	4.94	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.474	4.93	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.469	4.92	PASS
Band7	5MHz	64QAM	20775	25RB#0	4.485	4.92	PASS
Band7	5MHz	64QAM	21100	25RB#0	4.48	4.91	PASS
Band7	5MHz	64QAM	21425	25RB#0	4.484	4.92	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.928	9.70	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.927	9.66	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.924	9.68	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.912	9.62	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.915	9.64	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.913	9.64	PASS
Band7	10MHz	64QAM	20800	50RB#0	8.933	9.64	PASS
Band7	10MHz	64QAM	21100	50RB#0	8.929	9.60	PASS
Band7	10MHz	64QAM	21400	50RB#0	8.938	9.66	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.467	14.73	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.459	14.70	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.446	14.73	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.437	14.79	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.44	14.70	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.431	14.82	PASS
Band7	15MHz	64QAM	20825	75RB#0	13.427	14.73	PASS
Band7	15MHz	64QAM	21100	75RB#0	13.41	14.70	PASS
Band7	15MHz	64QAM	21375	75RB#0	13.429	14.76	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.896	19.48	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.897	19.28	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.91	19.48	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.884	19.40	PASS



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Rev.: 01

Page: 17 of 55

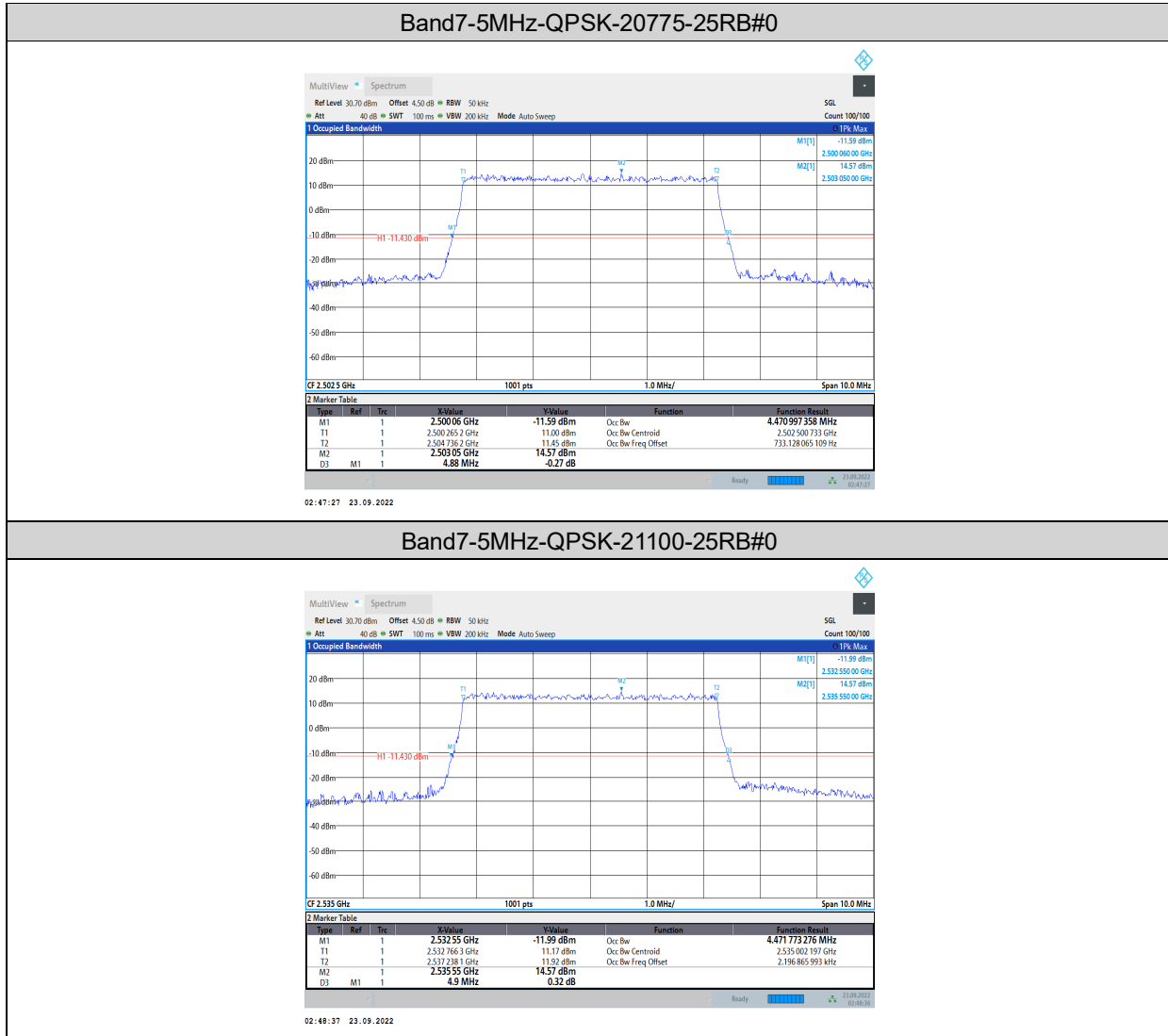
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Band7	20MHz	64QAM	20850	100RB#0	17.852	19.36	PASS
Band7	20MHz	64QAM	21100	100RB#0	17.865	19.36	PASS
Band7	20MHz	64QAM	21350	100RB#0	17.879	19.48	PASS



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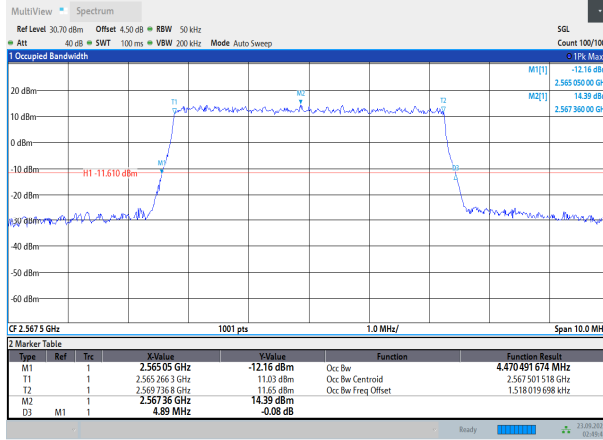


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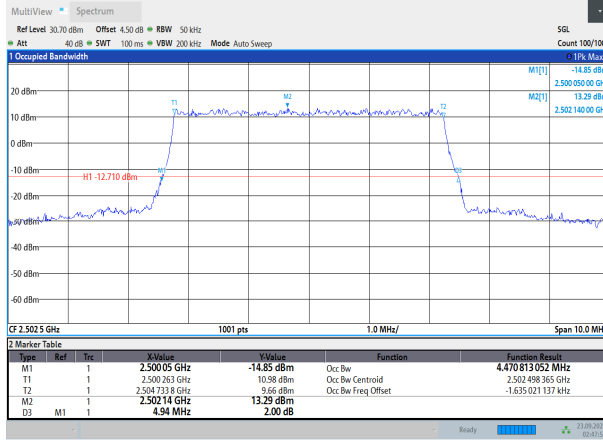
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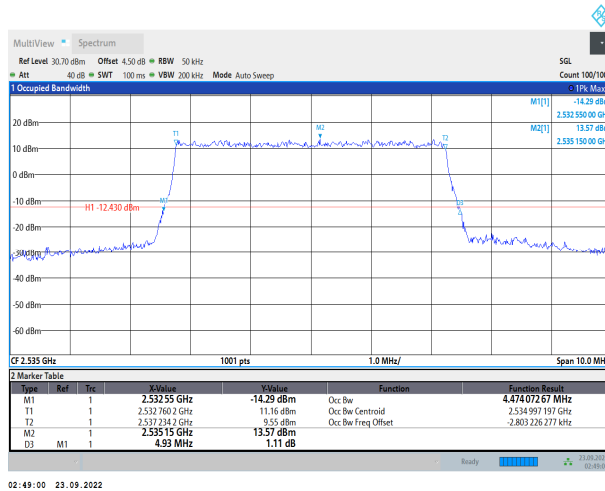


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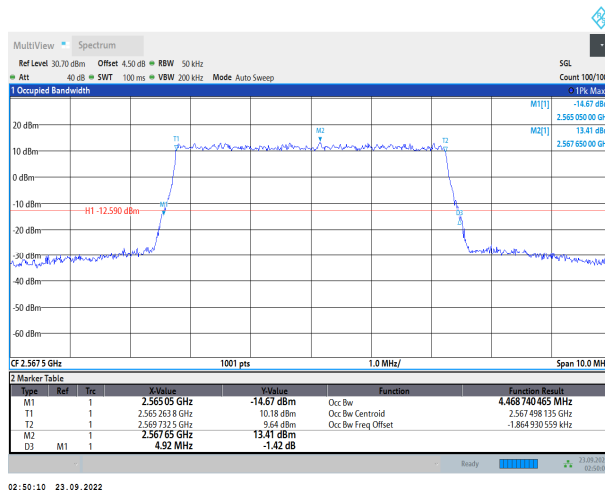
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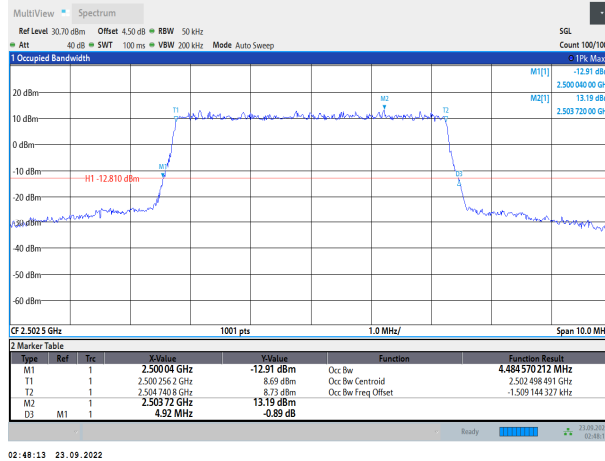


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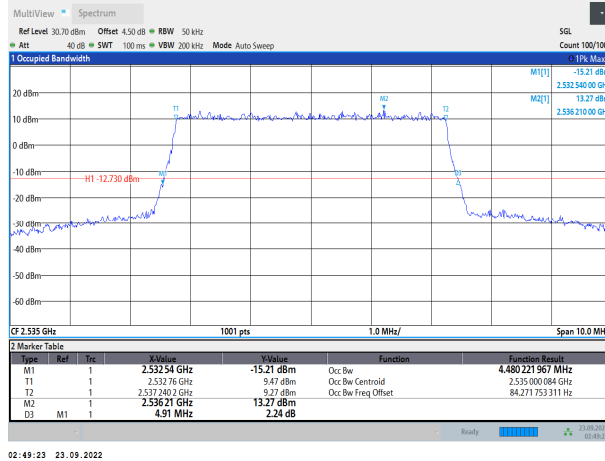
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Band7-5MHz-64QAM-20775-25RB#0



Band7-5MHz-64QAM-21100-25RB#0

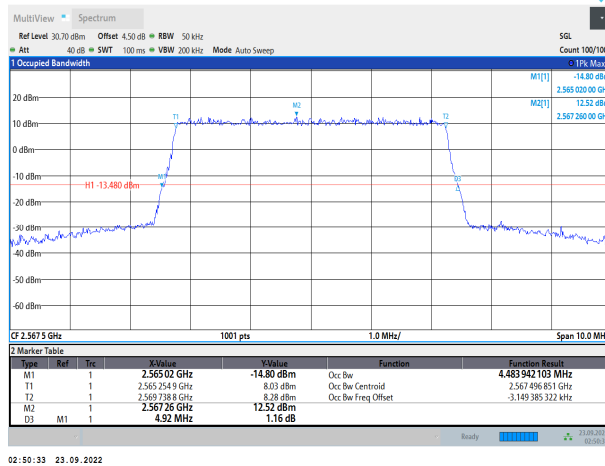


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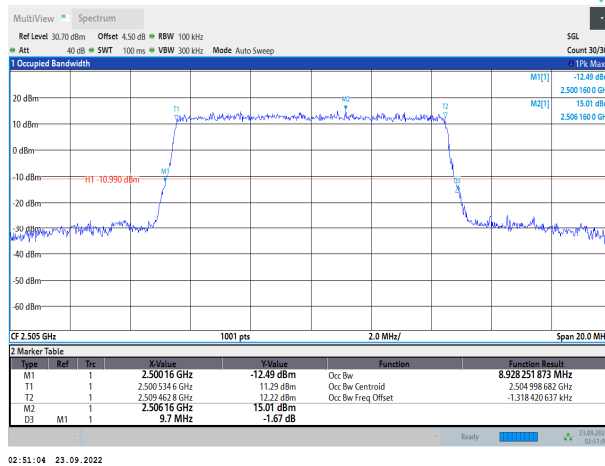
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Band7-5MHz-64QAM-21425-25RB#0



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

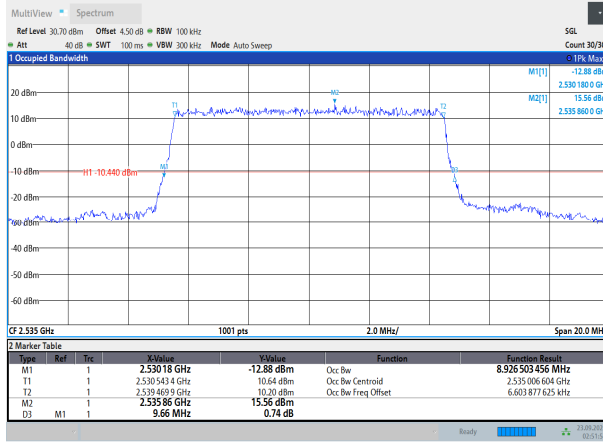


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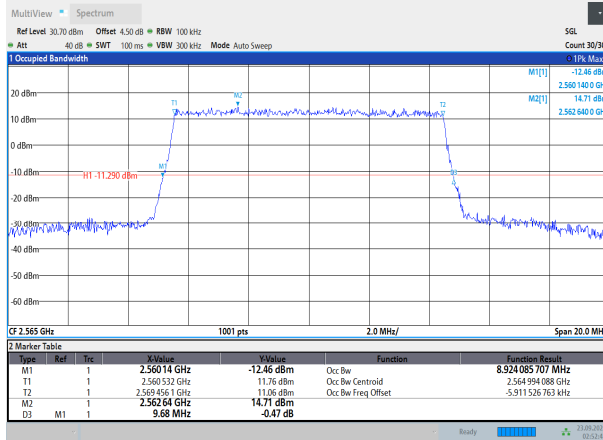
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Band7-10MHz-QPSK-21100-50RB#0



02:51:53 23.09.2022

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



02:52:41 23.09.2022

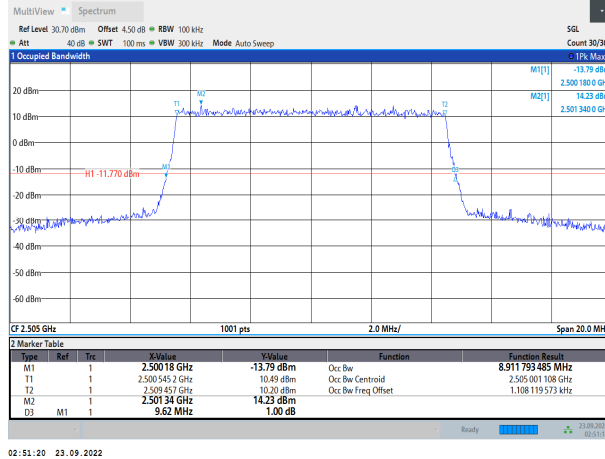


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Band7-10MHz-16QAM-20800-50RB#0



Band7-10MHz-16QAM-21100-50RB#0



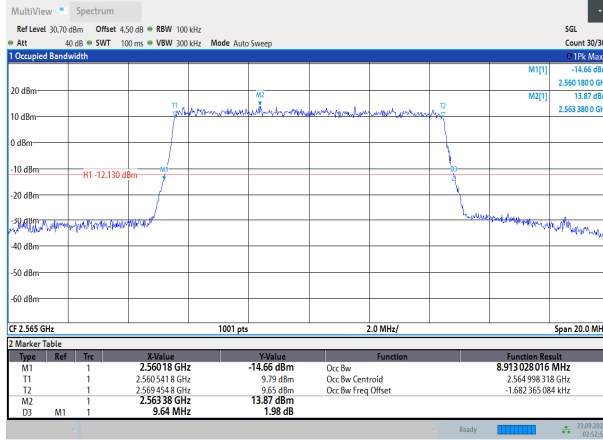
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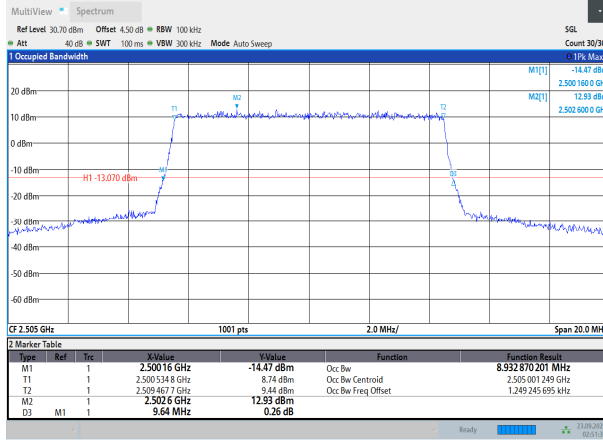


Band7-10MHz-16QAM-21400-50RB#0



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Band7-10MHz-64QAM-20800-50RB#0



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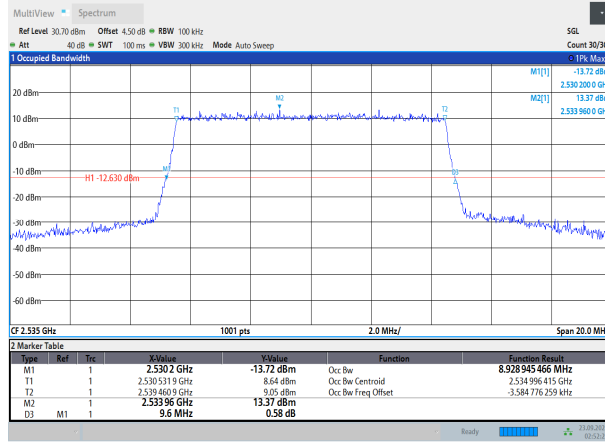


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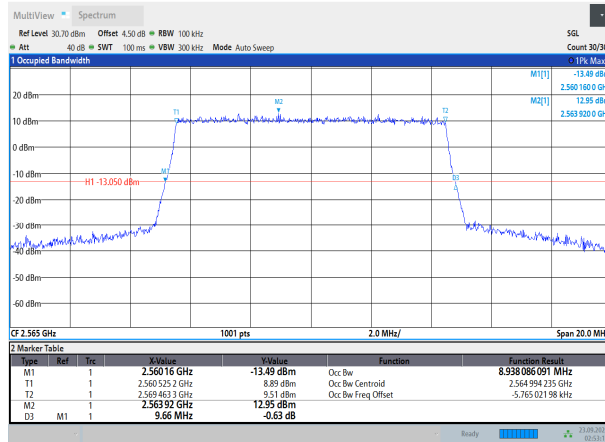
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Band7-10MHz-64QAM-21100-50RB#0



02:52:25 23.09.2022

Band7-10MHz-64QAM-21400-50RB#0



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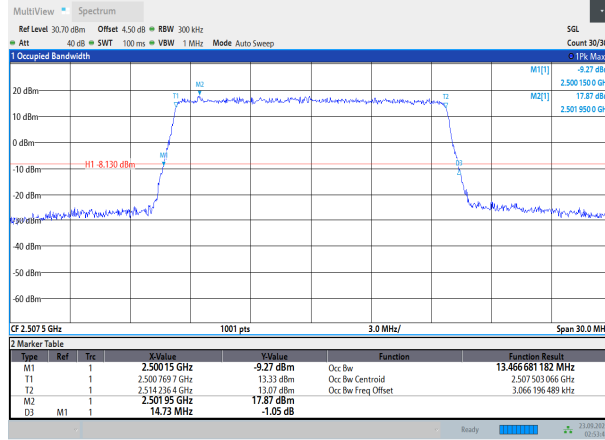


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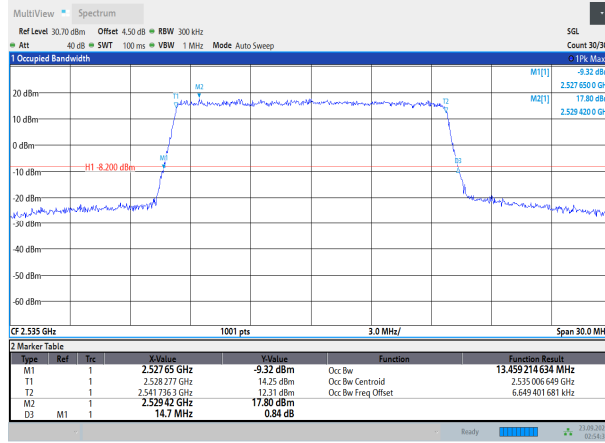
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Band7-15MHz-QPSK-20825-75RB#0



Band7-15MHz-QPSK-21100-75RB#0

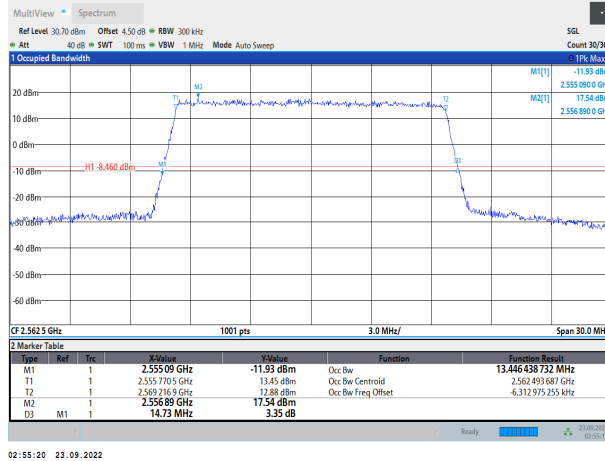


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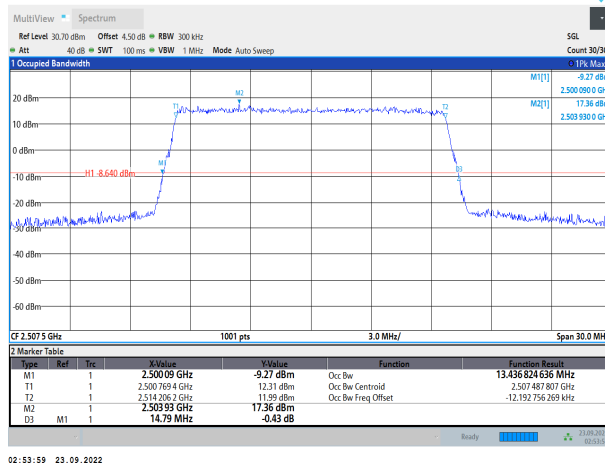
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Band7-15MHz-QPSK-21375-75RB#0



Band7-15MHz-16QAM-20825-75RB#0

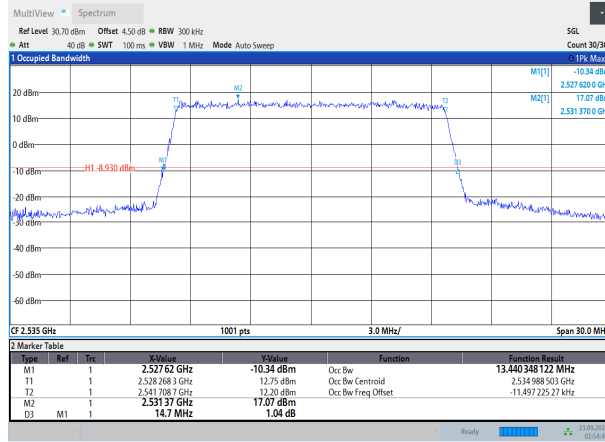


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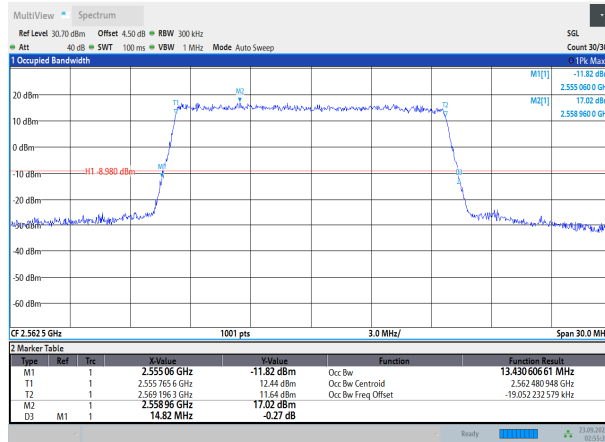
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Band7-15MHz-16QAM-21100-75RB#0



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Band7-15MHz-16QAM-21375-75RB#0



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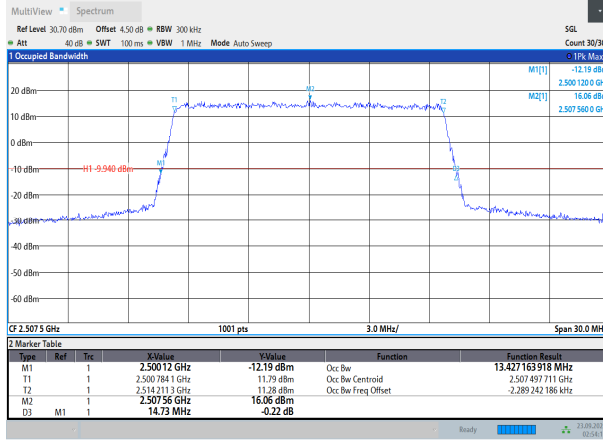


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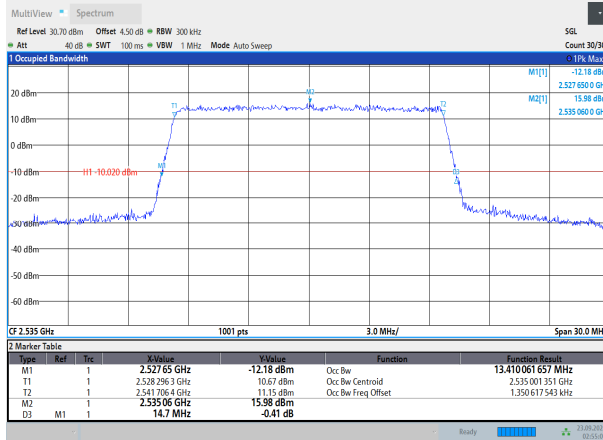
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Band7-15MHz-64QAM-20825-75RB#0



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Band7-15MHz-64QAM-21100-75RB#0



02:55:03 23.09.2022

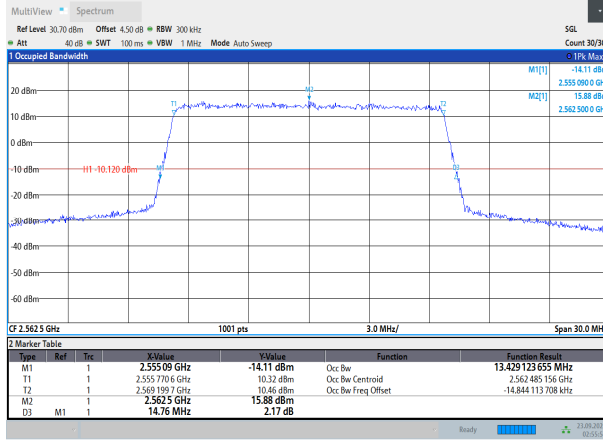


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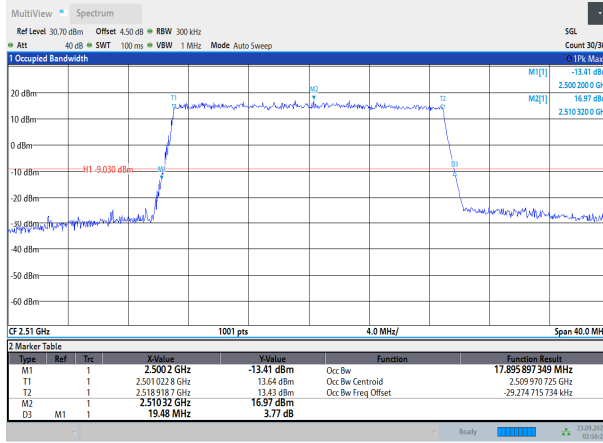
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Band7-15MHz-64QAM-21375-75RB#0



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

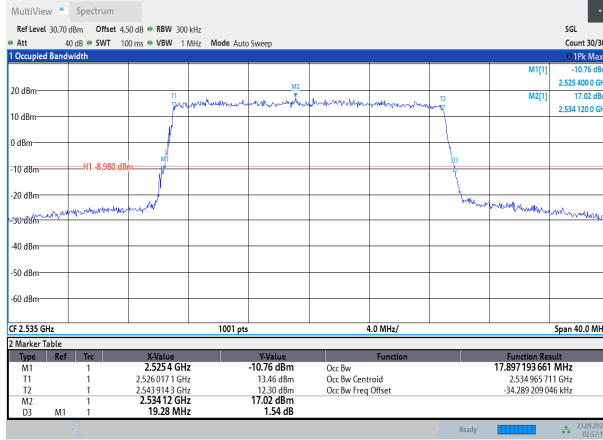


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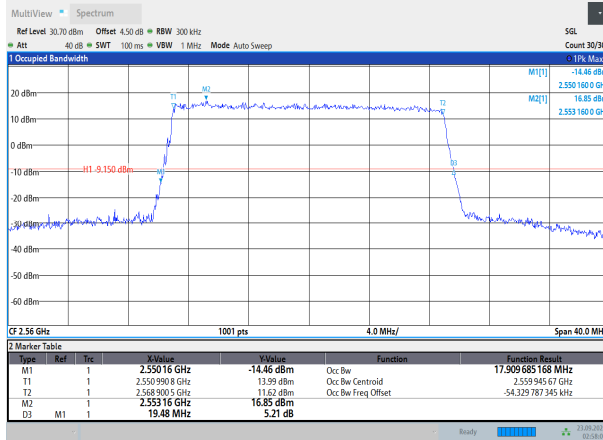
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Band7-20MHz-QPSK-21100-100RB#0



02:57:11 23.09.2022

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



02:58:00 23.09.2022



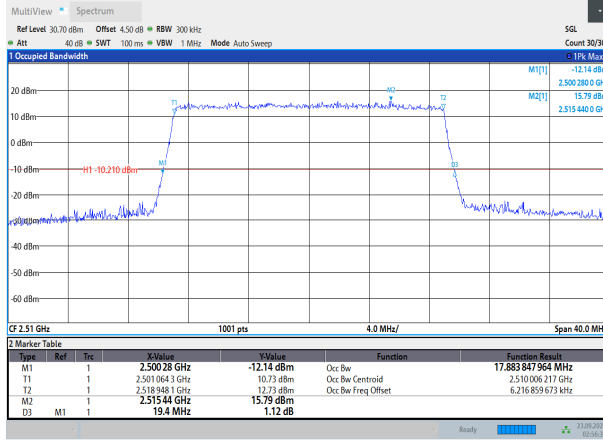
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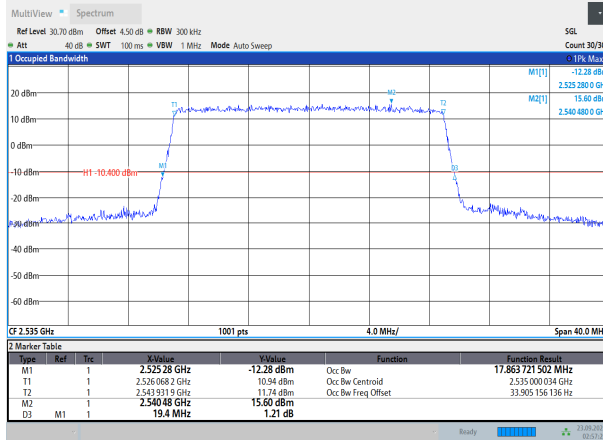


Band7-20MHz-16QAM-20850-100RB#0



02:56:39 23.09.2022

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



02:57:27 23.09.2022

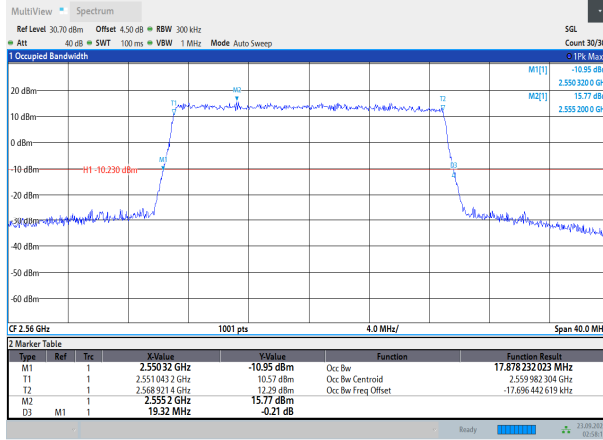


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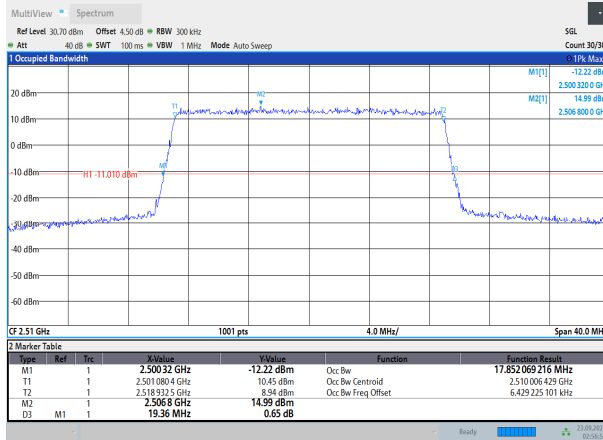
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Band7-20MHz-16QAM-21350-100RB#0



02:58:16 23.09.2022

Band7-20MHz-64QAM-20850-100RB#0



02:56:55 23.09.2022

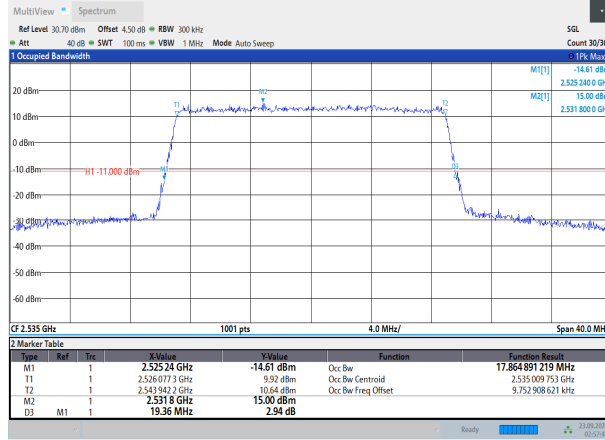


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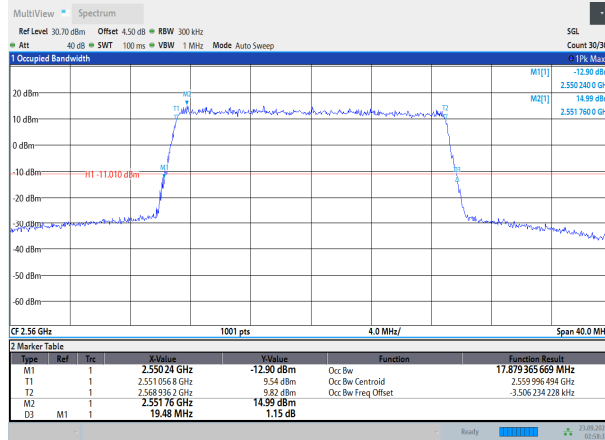
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Band7-20MHz-64QAM-21100-100RB#0



02:57:44 23.09.2022

Band7-20MHz-64QAM-21350-100RB#0



02:58:32 23.09.2022



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## Band Edge

## Test Graphs

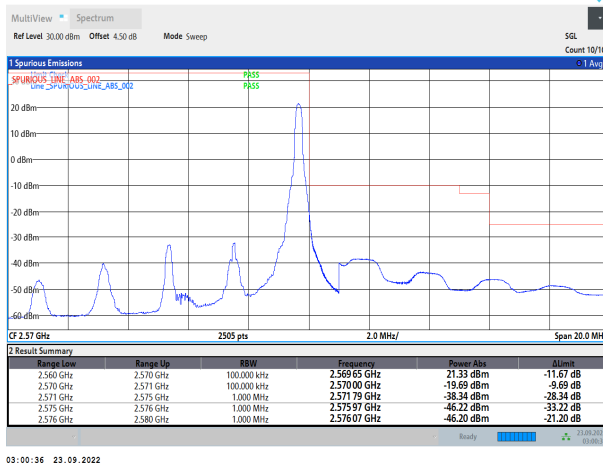


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Band7-5MHz-QPSK-21425-1RB#24



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



03:01:05 23.09.2022

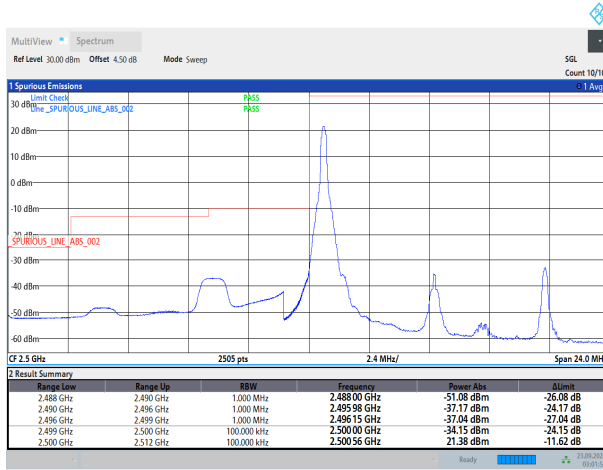


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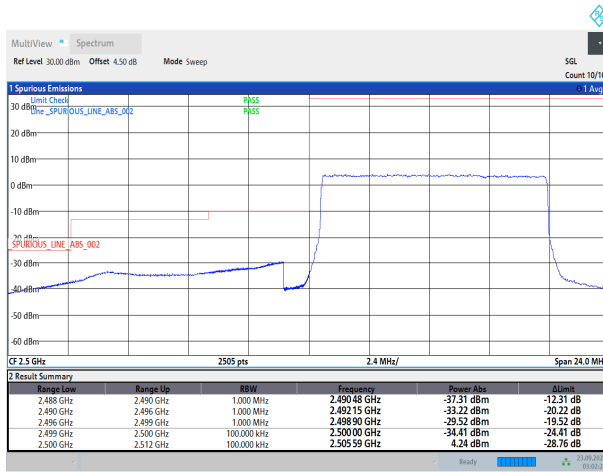
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Band7-10MHz-QPSK-20800-1RB#0



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



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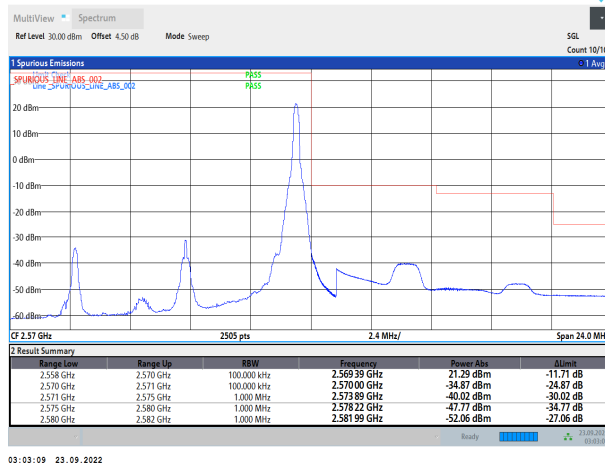


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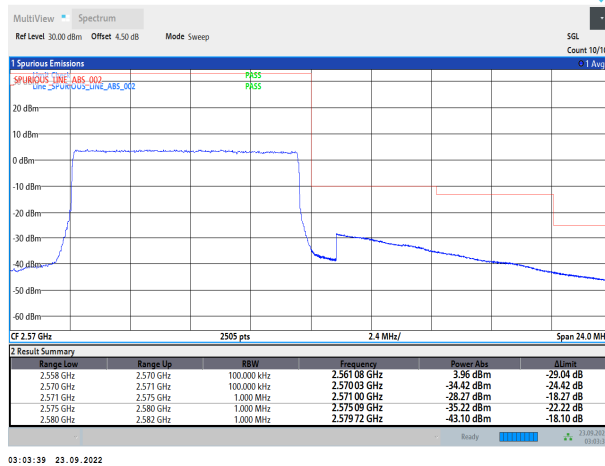
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Band7-10MHz-QPSK-21400-1RB#49



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

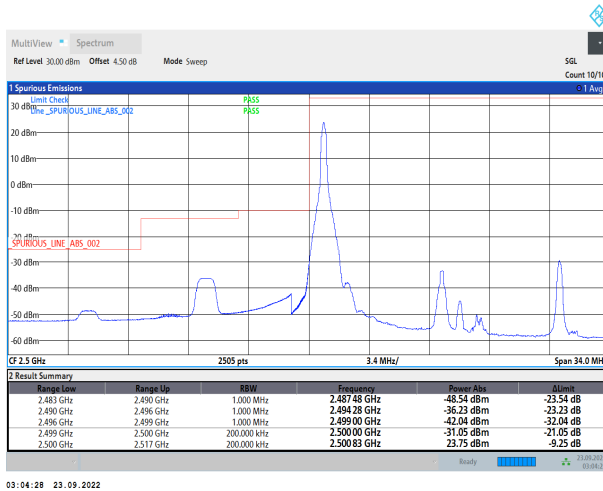


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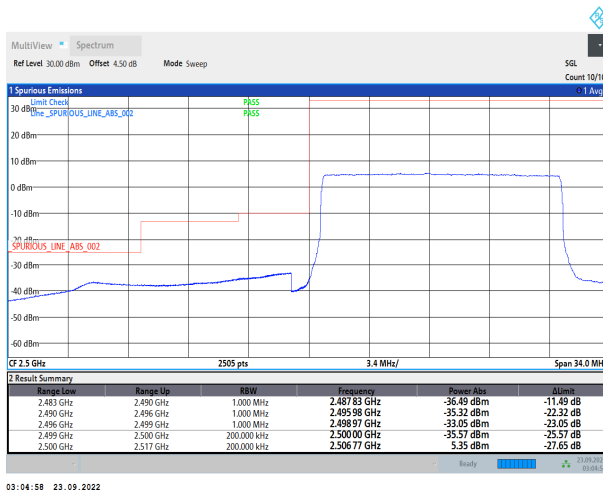
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Band7-15MHz-QPSK-20825-1RB#0



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



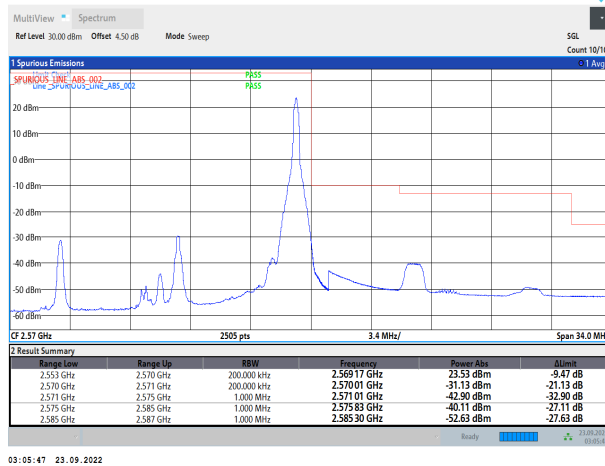
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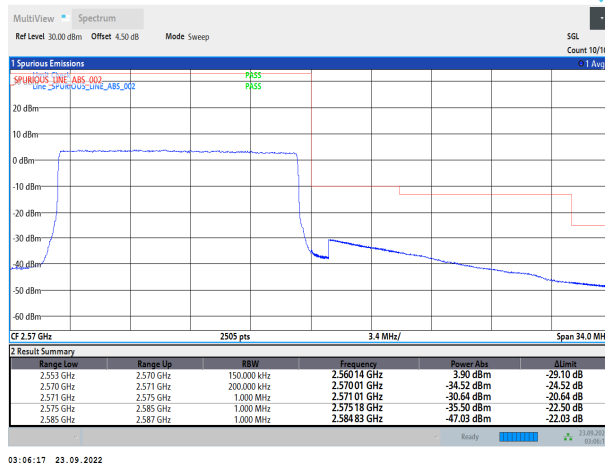
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Band7-15MHz-QPSK-21375-1RB#74



Band7-15MHz-QPSK-21375-75RB#0

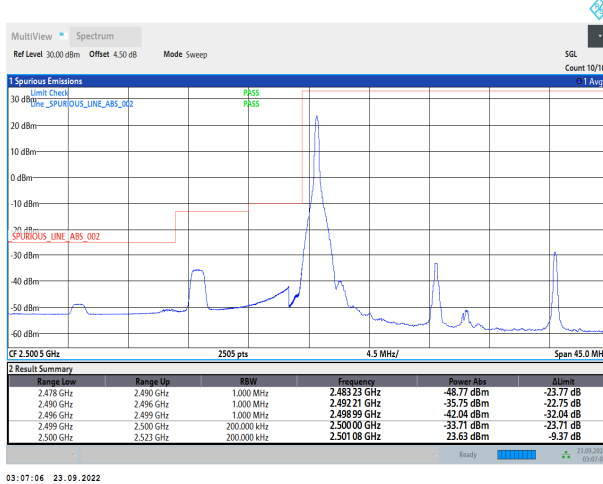


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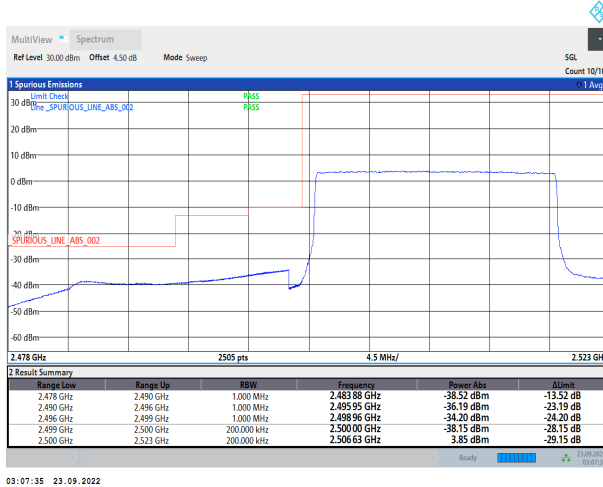
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Band7-20MHz-QPSK-20850-1RB#0



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

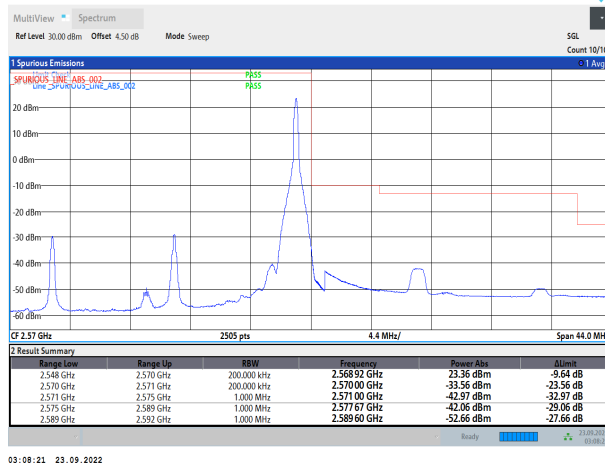


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Band7-20MHz-QPSK-21350-1RB#99



03:08:21 23.09.2022

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



03:08:51 23.09.2022



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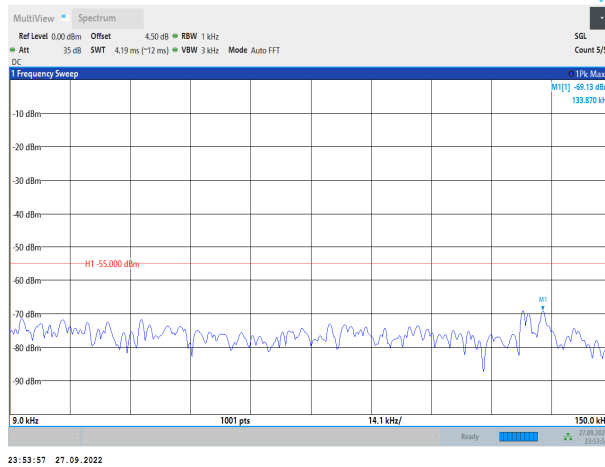
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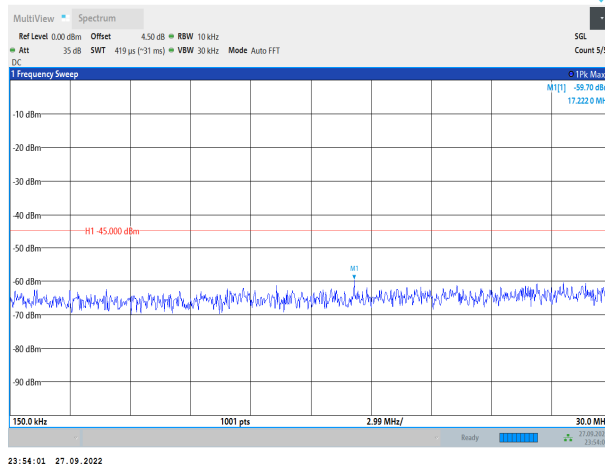
## Conducted Spurious Emission

### Test Graphs

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



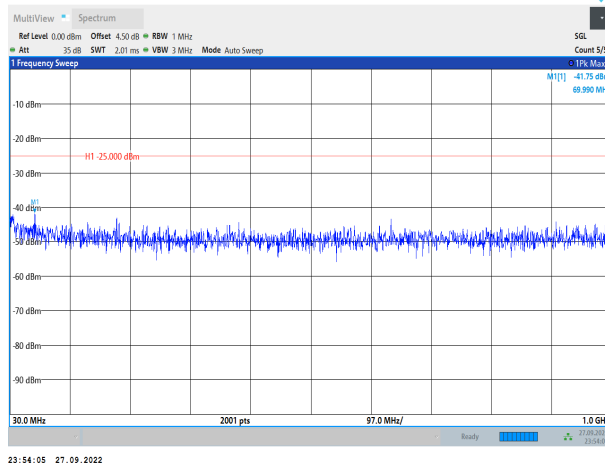
Band7-20MHz-QPSK-20850-1RB#0-Range2:0.15~30MHz



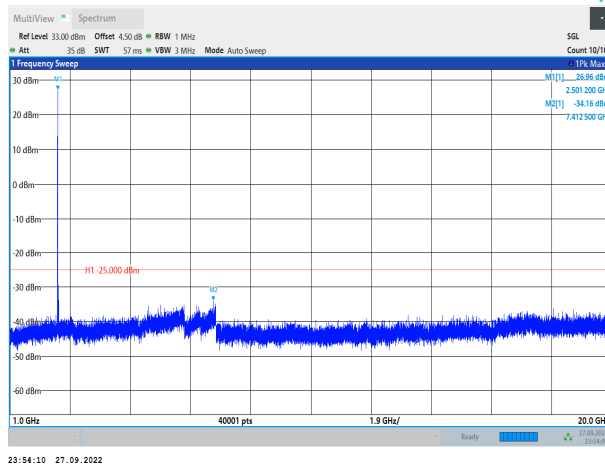
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Band7-20MHz-QPSK-20850-1RB#0-Range3:30~1000MHz



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

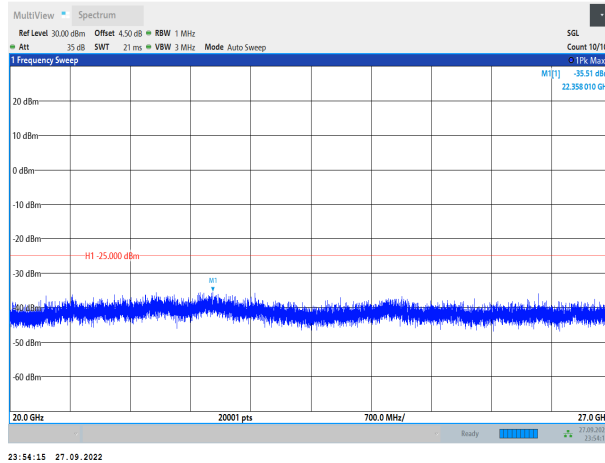


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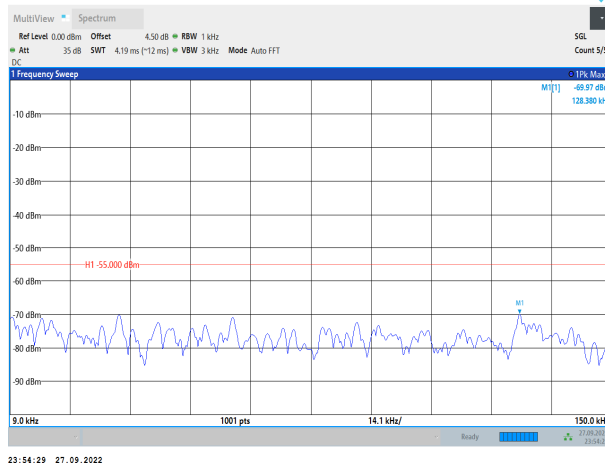
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Band7-20MHz-QPSK-20850-1RB#0-Range5:20000~27000MHz



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

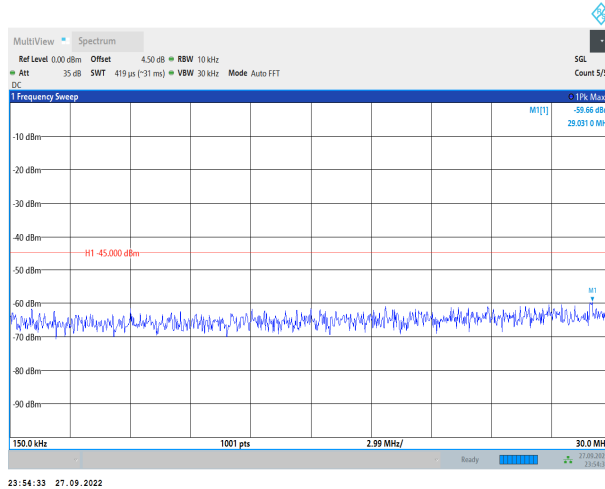


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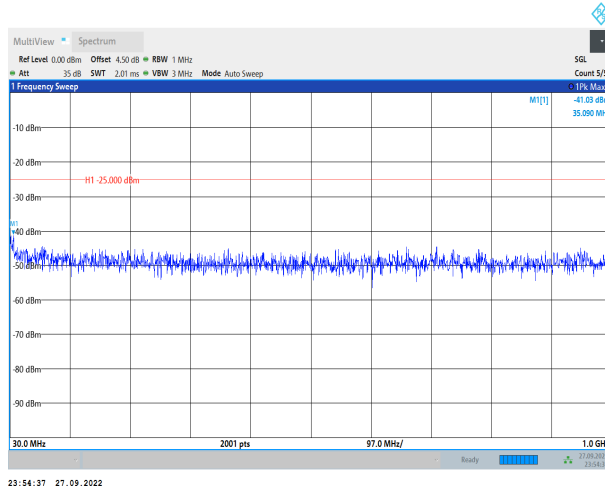
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Band7-20MHz-QPSK-21100-1RB#0-Range2:0.15~30MHz



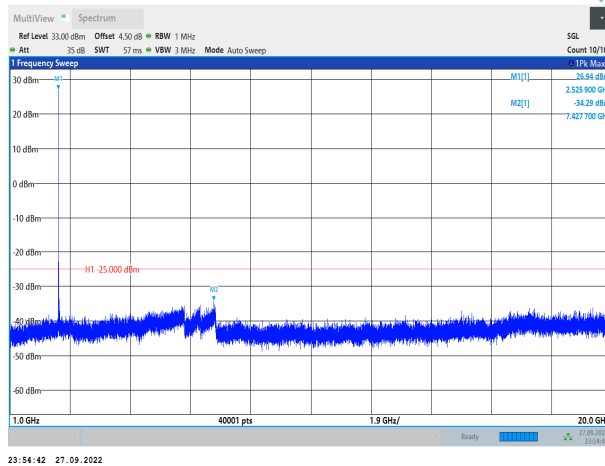
Band7-20MHz-QPSK-21100-1RB#0-Range3:30~1000MHz



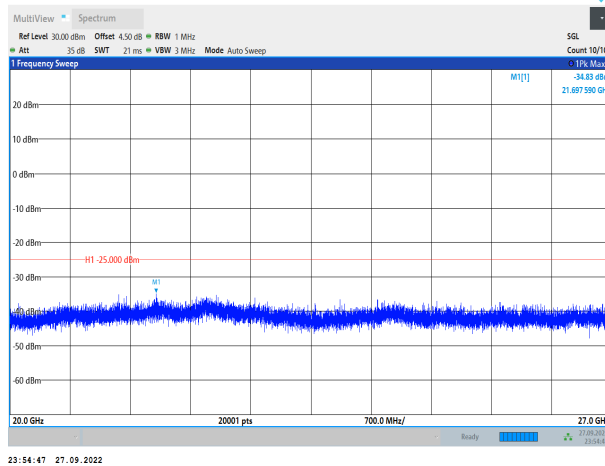
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Band7-20MHz-QPSK-21100-1RB#0-Range4:1000~20000MHz



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



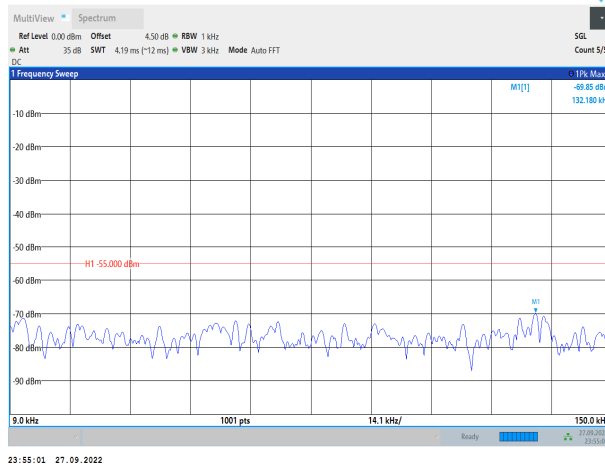
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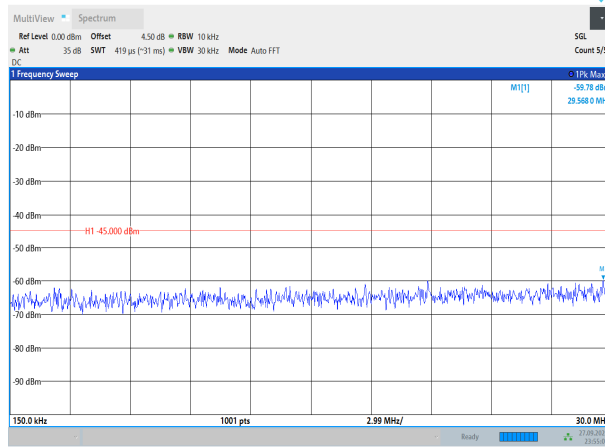


Band7-20MHz-QPSK-21350-1RB#0-Range1:0.009~0.15MHz



23:55:01 27.09.2022

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



23:55:05 27.09.2022

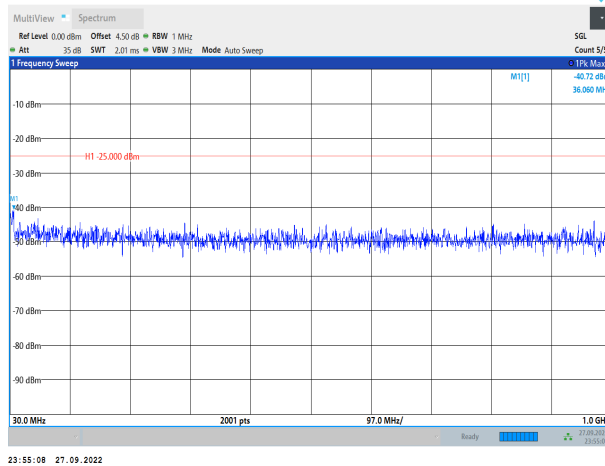


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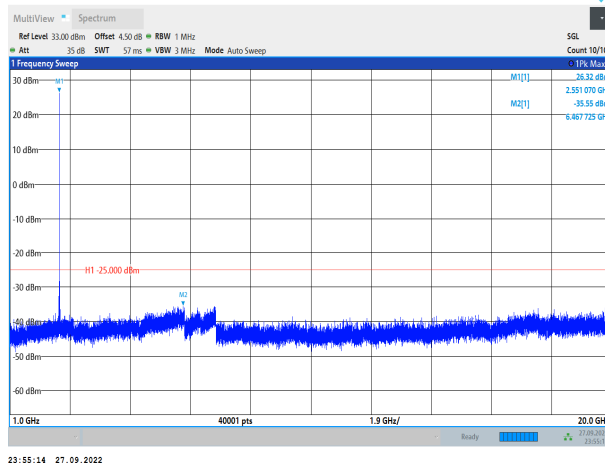
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Band7-20MHz-QPSK-21350-1RB#0-Range3:30~1000MHz



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

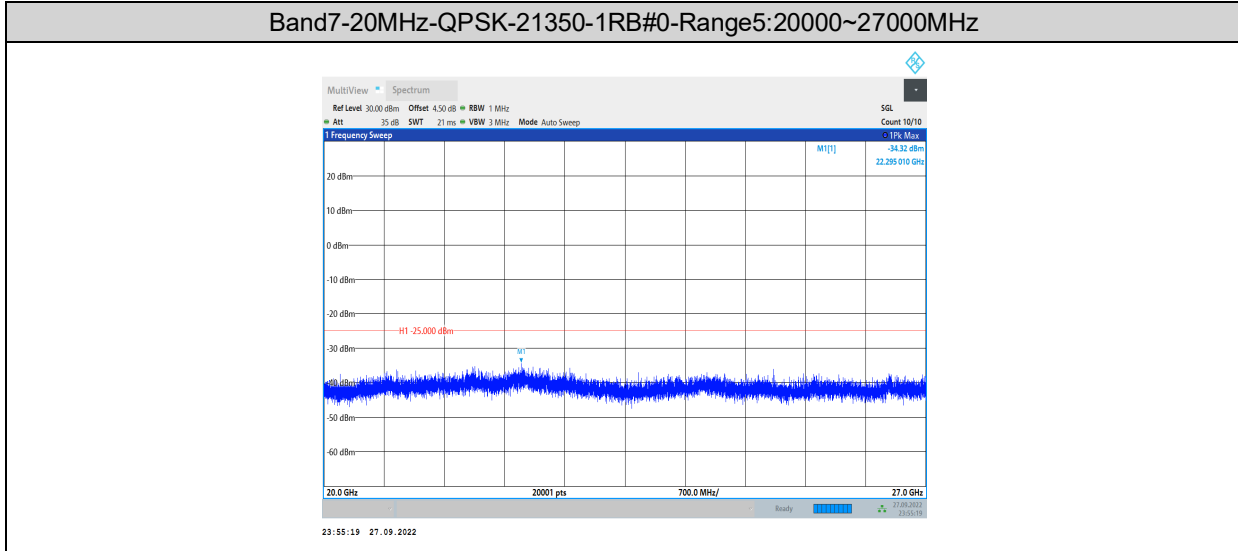


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Band7-20MHz-QPSK-21350-1RB#0-Range5:20000~27000MHz



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## Field Strength of Spurious Radiation

Test Band = LTE Band 7\_ 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	5002.1800	55.06	-45.63	32.88	-52.95	-25.00	27.95	169	304	Horizontal
2	7503.2700	47.65	-43.13	36.44	-54.30	-25.00	29.30	157	354	Horizontal
3	10004.3600	43.75	-39.23	38.50	-52.25	-25.00	27.25	215	258	Horizontal
4	12505.4500	29.67	-36.99	39.18	-63.40	-25.00	38.40	227	258	Horizontal
5	15006.5400	28.58	-34.65	39.21	-62.12	-25.00	37.12	291	335	Horizontal
6	17507.6300	31.00	-34.95	39.22	-59.99	-25.00	34.99	193	4	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	5002.1800	51.70	-45.63	32.88	-56.31	-25.00	31.31	164	260	Vertical
2	7503.2700	55.60	-43.13	36.44	-46.35	-25.00	21.35	152	305	Vertical
3	10004.3600	55.04	-39.23	38.50	-40.96	-25.00	15.96	197	360	Vertical
4	12505.4500	30.53	-36.99	39.18	-62.54	-25.00	37.54	228	360	Vertical
5	15006.5400	28.71	-34.65	39.21	-61.99	-25.00	36.99	176	227	Vertical
6	17507.6300	30.53	-34.95	39.22	-60.46	-25.00	35.46	231	168	Vertical



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Test Band = LTE Band 7\_ 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	5052.1800	52.61	-45.50	32.91	-55.24	-25.00	30.24	169	243	Horizontal
2	7578.2700	51.96	-42.97	36.40	-49.87	-25.00	24.87	172	288	Horizontal
3	10104.3600	50.25	-39.14	38.66	-45.49	-25.00	20.49	167	243	Horizontal
4	12630.4500	31.16	-37.33	39.33	-62.10	-25.00	37.10	157	243	Horizontal
5	15156.5400	29.83	-34.37	39.01	-60.79	-25.00	35.79	194	4	Horizontal
6	17682.6300	31.08	-33.89	40.06	-58.01	-25.00	33.01	216	359	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	5052.1800	51.01	-45.50	32.91	-56.84	-25.00	31.84	151	241	Vertical
2	7578.2700	61.84	-42.97	36.40	-39.99	-25.00	14.99	129	258	Vertical
3	10104.3600	53.93	-39.14	38.66	-41.81	-25.00	16.81	261	360	Vertical
4	12630.4500	30.97	-37.33	39.33	-62.29	-25.00	37.29	174	104	Vertical
5	15156.5400	29.94	-34.37	39.01	-60.68	-25.00	35.68	182	4	Vertical
6	17682.6300	31.36	-33.89	40.06	-57.73	-25.00	32.73	197	16	Vertical



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Test Band = LTE Band 7\_ 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	5102.1800	50.71	-45.37	32.94	-56.98	-25.00	31.98	167	288	Horizontal
2	7653.2700	47.53	-43.03	36.49	-54.27	-25.00	29.27	215	165	Horizontal
3	10204.3600	44.04	-39.48	38.81	-51.89	-25.00	26.89	229	334	Horizontal
4	12755.4500	31.11	-36.76	39.55	-61.36	-25.00	36.36	163	288	Horizontal
5	15306.5400	29.96	-34.36	38.82	-60.84	-25.00	35.84	158	212	Horizontal
6	17857.6300	32.43	-34.56	41.24	-56.15	-25.00	31.15	179	197	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	5102.1800	50.96	-45.37	32.94	-56.73	-25.00	31.73	169	91	Vertical
2	7653.2700	55.57	-43.03	36.49	-46.23	-25.00	21.23	215	291	Vertical
3	10204.3600	49.88	-39.48	38.81	-46.05	-25.00	21.05	227	360	Vertical
4	12755.4500	31.34	-36.76	39.55	-61.13	-25.00	36.13	163	274	Vertical
5	15306.5400	29.25	-34.36	38.82	-61.55	-25.00	36.55	148	168	Vertical
6	17857.6300	32.06	-34.56	41.24	-56.52	-25.00	31.52	179	46	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) - Pre-amplifier (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	7.90	0.003116	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-6.50	-0.002564	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	5.10	0.002012	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	7.10	0.002801	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	6.60	0.002604	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	7.50	0.002959	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	8.10	0.003195	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	-1.40	-0.000552	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	-1.30	-0.000513	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-1.20	-0.000473	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	7.90	0.003116	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	7.40	0.002919	PASS

 $|\text{MAX}(\Delta f)| = 8.1\text{Hz}$ 

Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L -  \text{MAX}(\Delta f) $	2500.562354	$\geq 2500\text{ MHz}$	PASS
$f_H +  \text{MAX}(\Delta f) $	2569.456982	$\leq 2570\text{ MHz}$	

---End of Attachment---



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