

# 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	22.89	25.89	33	PASS
Band7	5MHz	QPSK	20775	1RB#12	23.2	26.2	33	PASS
Band7	5MHz	QPSK	20775	1RB#24	22.8	25.8	33	PASS
Band7	5MHz	QPSK	20775	25RB#0	21.91	24.91	33	PASS
Band7	5MHz	QPSK	21100	1RB#0	22.79	25.79	33	PASS
Band7	5MHz	QPSK	21100	1RB#12	22.78	25.78	33	PASS
Band7	5MHz	QPSK	21100	1RB#24	22.56	25.56	33	PASS
Band7	5MHz	QPSK	21100	25RB#0	21.9	24.9	33	PASS
Band7	5MHz	QPSK	21425	1RB#0	22.96	25.96	33	PASS
Band7	5MHz	QPSK	21425	1RB#12	22.98	25.98	33	PASS
Band7	5MHz	QPSK	21425	1RB#24	22.89	25.89	33	PASS
Band7	5MHz	QPSK	21425	25RB#0	22.06	25.06	33	PASS
Band7	5MHz	16QAM	20775	1RB#0	22.22	25.22	33	PASS
Band7	5MHz	16QAM	20775	1RB#12	21.63	24.63	33	PASS
Band7	5MHz	16QAM	20775	1RB#24	21.94	24.94	33	PASS
Band7	5MHz	16QAM	20775	25RB#0	20.83	23.83	33	PASS
Band7	5MHz	16QAM	21100	1RB#0	21.78	24.78	33	PASS
Band7	5MHz	16QAM	21100	1RB#12	21.58	24.58	33	PASS
Band7	5MHz	16QAM	21100	1RB#24	21.89	24.89	33	PASS
Band7	5MHz	16QAM	21100	25RB#0	20.85	23.85	33	PASS
Band7	5MHz	16QAM	21425	1RB#0	21.52	24.52	33	PASS
Band7	5MHz	16QAM	21425	1RB#12	21.7	24.7	33	PASS
Band7	5MHz	16QAM	21425	1RB#24	21.53	24.53	33	PASS
Band7	5MHz	16QAM	21425	25RB#0	21.18	24.18	33	PASS
Band7	5MHz	64QAM	20775	1RB#0	20.86	23.86	33	PASS
Band7	5MHz	64QAM	20775	1RB#12	20.89	23.89	33	PASS
Band7	5MHz	64QAM	20775	1RB#24	20.57	23.57	33	PASS



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Band7	5MHz	64QAM	20775	25RB#0	19.74	22.74	33	PASS
Band7	5MHz	64QAM	21100	1RB#0	20.69	23.69	33	PASS
Band7	5MHz	64QAM	21100	1RB#12	21.13	24.13	33	PASS
Band7	5MHz	64QAM	21100	1RB#24	20.9	23.9	33	PASS
Band7	5MHz	64QAM	21100	25RB#0	20.01	23.01	33	PASS
Band7	5MHz	64QAM	21425	1RB#0	20.69	23.69	33	PASS
Band7	5MHz	64QAM	21425	1RB#12	21.21	24.21	33	PASS
Band7	5MHz	64QAM	21425	1RB#24	21.17	24.17	33	PASS
Band7	5MHz	64QAM	21425	25RB#0	20.05	23.05	33	PASS
Band7	10MHz	QPSK	20800	1RB#0	23.09	26.09	33	PASS
Band7	10MHz	QPSK	20800	1RB#24	23.31	26.31	33	PASS
Band7	10MHz	QPSK	20800	1RB#49	22.96	25.96	33	PASS
Band7	10MHz	QPSK	20800	50RB#0	21.99	24.99	33	PASS
Band7	10MHz	QPSK	21100	1RB#0	22.94	25.94	33	PASS
Band7	10MHz	QPSK	21100	1RB#24	22.98	25.98	33	PASS
Band7	10MHz	QPSK	21100	1RB#49	22.84	25.84	33	PASS
Band7	10MHz	QPSK	21100	50RB#0	21.99	24.99	33	PASS
Band7	10MHz	QPSK	21400	1RB#0	22.99	25.99	33	PASS
Band7	10MHz	QPSK	21400	1RB#24	23.26	26.26	33	PASS
Band7	10MHz	QPSK	21400	1RB#49	23.02	26.02	33	PASS
Band7	10MHz	QPSK	21400	50RB#0	22.08	25.08	33	PASS
Band7	10MHz	16QAM	20800	1RB#0	21.29	24.29	33	PASS
Band7	10MHz	16QAM	20800	1RB#24	21.88	24.88	33	PASS
Band7	10MHz	16QAM	20800	1RB#49	22.15	25.15	33	PASS
Band7	10MHz	16QAM	20800	50RB#0	21.01	24.01	33	PASS
Band7	10MHz	16QAM	21100	1RB#0	22.01	25.01	33	PASS
Band7	10MHz	16QAM	21100	1RB#24	22.08	25.08	33	PASS
Band7	10MHz	16QAM	21100	1RB#49	21.55	24.55	33	PASS
Band7	10MHz	16QAM	21100	50RB#0	20.92	23.92	33	PASS
Band7	10MHz	16QAM	21400	1RB#0	21.59	24.59	33	PASS
Band7	10MHz	16QAM	21400	1RB#24	22.07	25.07	33	PASS
Band7	10MHz	16QAM	21400	1RB#49	21.67	24.67	33	PASS



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Band7	10MHz	16QAM	21400	50RB#0	21.12	24.12	33	PASS
Band7	10MHz	64QAM	20800	1RB#0	21.14	24.14	33	PASS
Band7	10MHz	64QAM	20800	1RB#24	21.13	24.13	33	PASS
Band7	10MHz	64QAM	20800	1RB#49	20.85	23.85	33	PASS
Band7	10MHz	64QAM	20800	50RB#0	19.99	22.99	33	PASS
Band7	10MHz	64QAM	21100	1RB#0	20.89	23.89	33	PASS
Band7	10MHz	64QAM	21100	1RB#24	20.79	23.79	33	PASS
Band7	10MHz	64QAM	21100	1RB#49	20.95	23.95	33	PASS
Band7	10MHz	64QAM	21100	50RB#0	20.01	23.01	33	PASS
Band7	10MHz	64QAM	21400	1RB#0	20.72	23.72	33	PASS
Band7	10MHz	64QAM	21400	1RB#24	21.01	24.01	33	PASS
Band7	10MHz	64QAM	21400	1RB#49	21.32	24.32	33	PASS
Band7	10MHz	64QAM	21400	50RB#0	20.19	23.19	33	PASS
Band7	15MHz	QPSK	20825	1RB#0	22.86	25.86	33	PASS
Band7	15MHz	QPSK	20825	1RB#38	23.02	26.02	33	PASS
Band7	15MHz	QPSK	20825	1RB#74	22.89	25.89	33	PASS
Band7	15MHz	QPSK	20825	75RB#0	21.96	24.96	33	PASS
Band7	15MHz	QPSK	21100	1RB#0	22.63	25.63	33	PASS
Band7	15MHz	QPSK	21100	1RB#38	22.92	25.92	33	PASS
Band7	15MHz	QPSK	21100	1RB#74	22.71	25.71	33	PASS
Band7	15MHz	QPSK	21100	75RB#0	21.92	24.92	33	PASS
Band7	15MHz	QPSK	21375	1RB#0	22.75	25.75	33	PASS
Band7	15MHz	QPSK	21375	1RB#38	22.91	25.91	33	PASS
Band7	15MHz	QPSK	21375	1RB#74	22.87	25.87	33	PASS
Band7	15MHz	QPSK	21375	75RB#0	22.04	25.04	33	PASS
Band7	15MHz	16QAM	20825	1RB#0	21.94	24.94	33	PASS
Band7	15MHz	16QAM	20825	1RB#38	21.43	24.43	33	PASS
Band7	15MHz	16QAM	20825	1RB#74	21.68	24.68	33	PASS
Band7	15MHz	16QAM	20825	75RB#0	20.97	23.97	33	PASS
Band7	15MHz	16QAM	21100	1RB#0	21.5	24.5	33	PASS
Band7	15MHz	16QAM	21100	1RB#38	22.18	25.18	33	PASS
Band7	15MHz	16QAM	21100	1RB#74	22.12	25.12	33	PASS



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Band7	15MHz	16QAM	21100	75RB#0	21.04	24.04	33	PASS
Band7	15MHz	16QAM	21375	1RB#0	21.54	24.54	33	PASS
Band7	15MHz	16QAM	21375	1RB#38	21.39	24.39	33	PASS
Band7	15MHz	16QAM	21375	1RB#74	21.71	24.71	33	PASS
Band7	15MHz	16QAM	21375	75RB#0	21.07	24.07	33	PASS
Band7	15MHz	64QAM	20825	1RB#0	20.87	23.87	33	PASS
Band7	15MHz	64QAM	20825	1RB#38	21.02	24.02	33	PASS
Band7	15MHz	64QAM	20825	1RB#74	20.6	23.6	33	PASS
Band7	15MHz	64QAM	20825	75RB#0	20.04	23.04	33	PASS
Band7	15MHz	64QAM	21100	1RB#0	20.77	23.77	33	PASS
Band7	15MHz	64QAM	21100	1RB#38	21.01	24.01	33	PASS
Band7	15MHz	64QAM	21100	1RB#74	20.69	23.69	33	PASS
Band7	15MHz	64QAM	21100	75RB#0	20.2	23.2	33	PASS
Band7	15MHz	64QAM	21375	1RB#0	20.81	23.81	33	PASS
Band7	15MHz	64QAM	21375	1RB#38	21.33	24.33	33	PASS
Band7	15MHz	64QAM	21375	1RB#74	21.36	24.36	33	PASS
Band7	15MHz	64QAM	21375	75RB#0	20.32	23.32	33	PASS
Band7	20MHz	QPSK	20850	1RB#0	22.82	25.82	33	PASS
Band7	20MHz	QPSK	20850	1RB#49	23.17	26.17	33	PASS
Band7	20MHz	QPSK	20850	1RB#99	22.52	25.52	33	PASS
Band7	20MHz	QPSK	20850	100RB#0	21.98	24.98	33	PASS
Band7	20MHz	QPSK	21100	1RB#0	23.02	26.02	33	PASS
Band7	20MHz	QPSK	21100	1RB#49	23.06	26.06	33	PASS
Band7	20MHz	QPSK	21100	1RB#99	22.71	25.71	33	PASS
Band7	20MHz	QPSK	21100	100RB#0	21.92	24.92	33	PASS
Band7	20MHz	QPSK	21350	1RB#0	22.59	25.59	33	PASS
Band7	20MHz	QPSK	21350	1RB#49	23.13	26.13	33	PASS
Band7	20MHz	QPSK	21350	1RB#99	23.01	26.01	33	PASS
Band7	20MHz	QPSK	21350	100RB#0	21.99	24.99	33	PASS
Band7	20MHz	16QAM	20850	1RB#0	22.21	25.21	33	PASS
Band7	20MHz	16QAM	20850	1RB#49	21.45	24.45	33	PASS
Band7	20MHz	16QAM	20850	1RB#99	21.22	24.22	33	PASS



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Band7	20MHz	16QAM	20850	100RB#0	21.01	24.01	33	PASS
Band7	20MHz	16QAM	21100	1RB#0	22.01	25.01	33	PASS
Band7	20MHz	16QAM	21100	1RB#49	22.08	25.08	33	PASS
Band7	20MHz	16QAM	21100	1RB#99	21.58	24.58	33	PASS
Band7	20MHz	16QAM	21100	100RB#0	20.84	23.84	33	PASS
Band7	20MHz	16QAM	21350	1RB#0	21.55	24.55	33	PASS
Band7	20MHz	16QAM	21350	1RB#49	22.52	25.52	33	PASS
Band7	20MHz	16QAM	21350	1RB#99	21.55	24.55	33	PASS
Band7	20MHz	16QAM	21350	100RB#0	21.01	24.01	33	PASS
Band7	20MHz	64QAM	20850	1RB#0	21.2	24.2	33	PASS
Band7	20MHz	64QAM	20850	1RB#49	20.87	23.87	33	PASS
Band7	20MHz	64QAM	20850	1RB#99	20.41	23.41	33	PASS
Band7	20MHz	64QAM	20850	100RB#0	19.99	22.99	33	PASS
Band7	20MHz	64QAM	21100	1RB#0	20.91	23.91	33	PASS
Band7	20MHz	64QAM	21100	1RB#49	20.93	23.93	33	PASS
Band7	20MHz	64QAM	21100	1RB#99	20.85	23.85	33	PASS
Band7	20MHz	64QAM	21100	100RB#0	20.11	23.11	33	PASS
Band7	20MHz	64QAM	21350	1RB#0	20.74	23.74	33	PASS
Band7	20MHz	64QAM	21350	1RB#49	21.05	24.05	33	PASS
Band7	20MHz	64QAM	21350	1RB#99	20.92	23.92	33	PASS
Band7	20MHz	64QAM	21350	100RB#0	20.18	23.18	33	PASS



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## Peak-to-Average Ratio(CCDF)

### Test Result

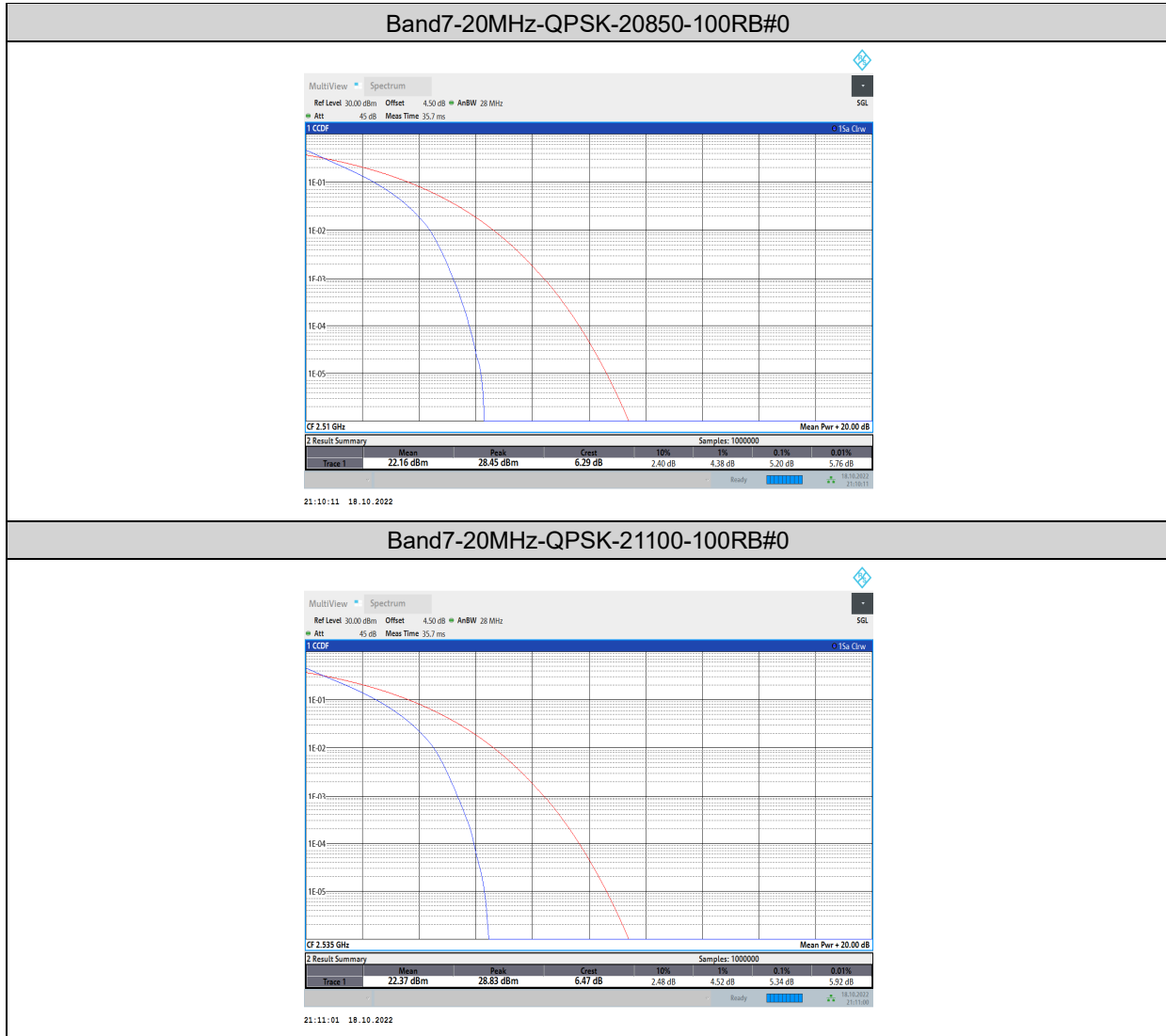
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	5.20	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.34	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.58	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	6.06	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	6.18	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	6.30	13	PASS
Band7	20MHz	64QAM	20850	100RB#0	6.56	13	PASS
Band7	20MHz	64QAM	21100	100RB#0	6.70	13	PASS
Band7	20MHz	64QAM	21350	100RB#0	6.82	13	PASS



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Test Graphs



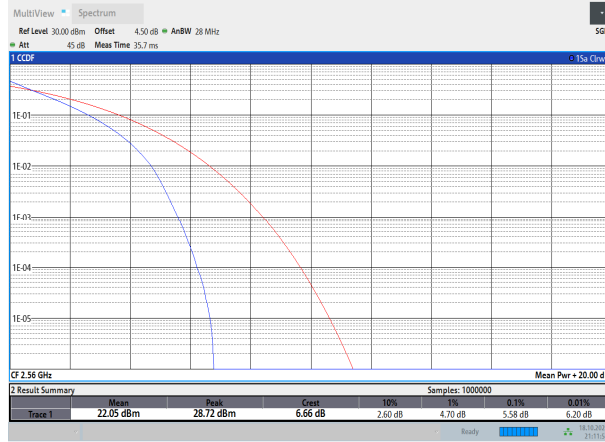
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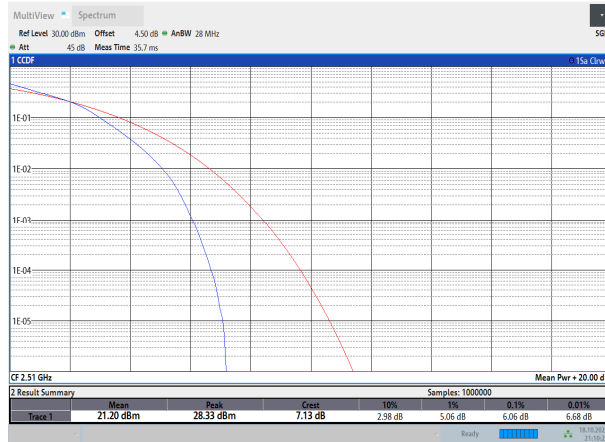


Band7-20MHz-QPSK-21350-100RB#0



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



21:10:28 18.10.2022

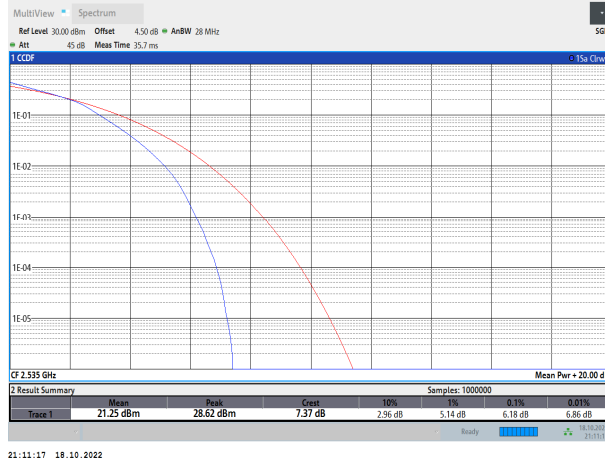


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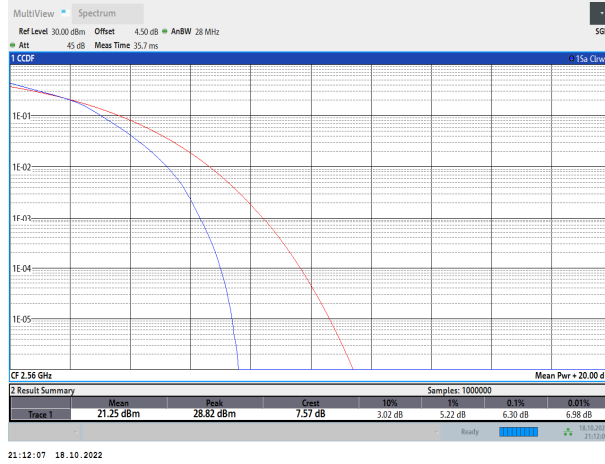
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Band7-20MHz-16QAM-21100-100RB#0



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

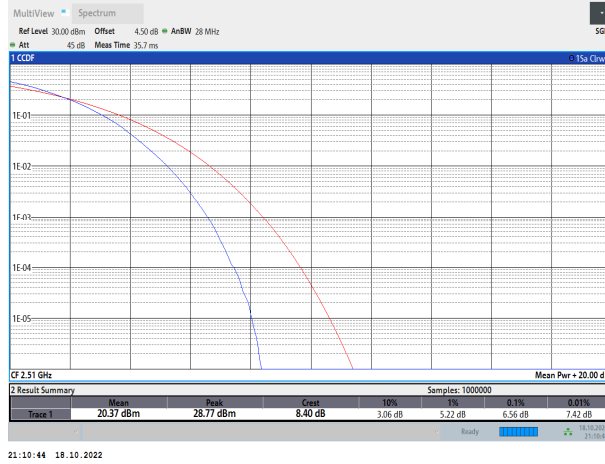


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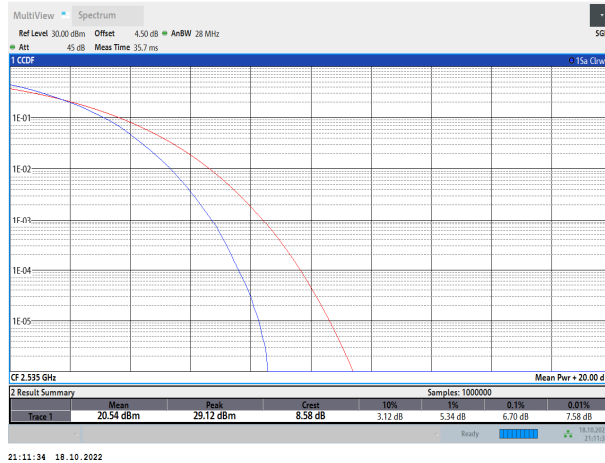
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Band7-20MHz-64QAM-20850-100RB#0



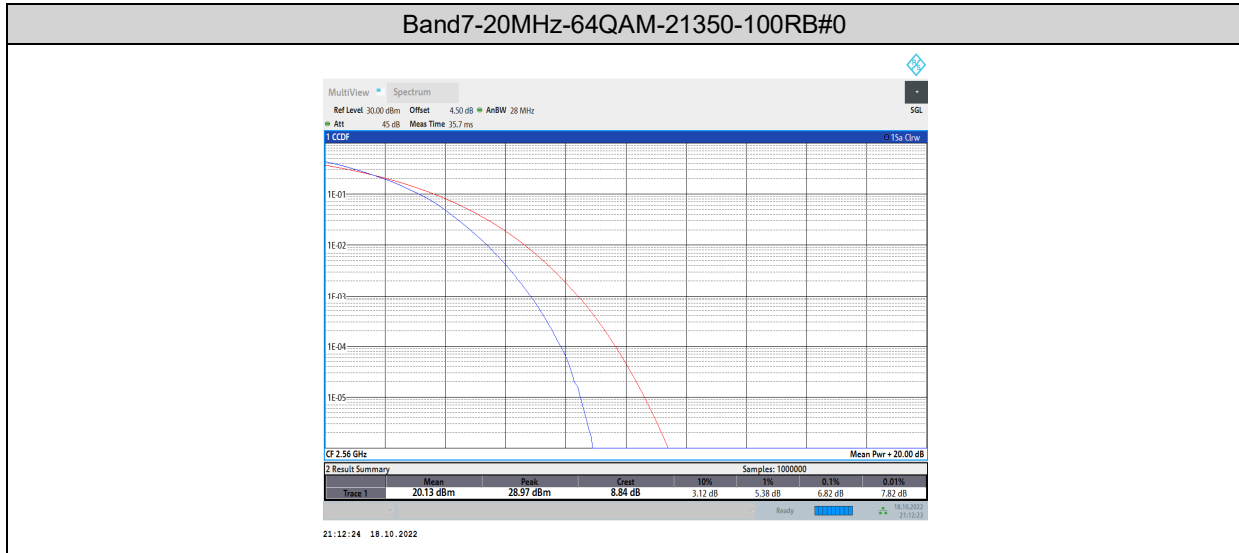
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## Modulation Characteristics

### 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

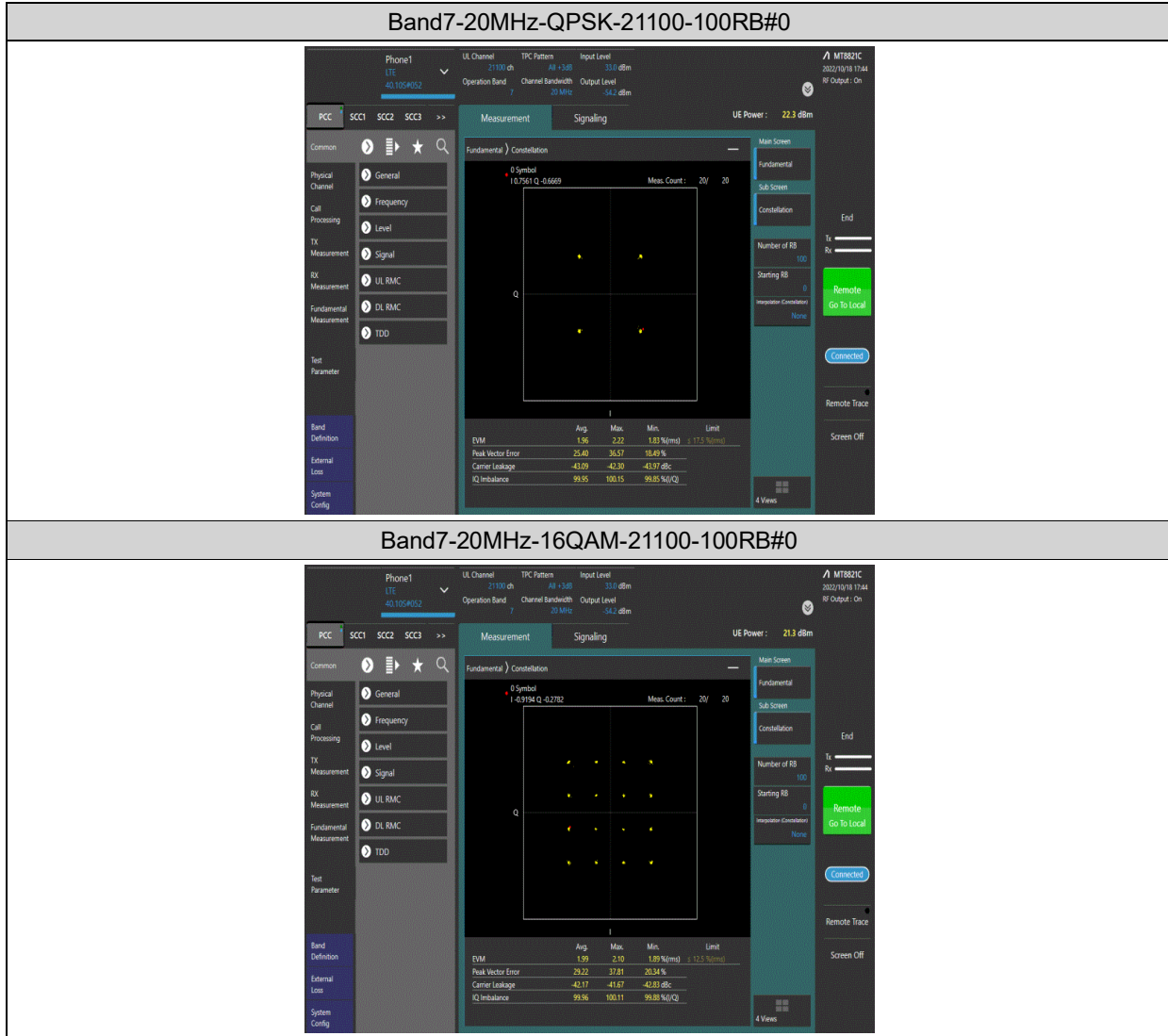


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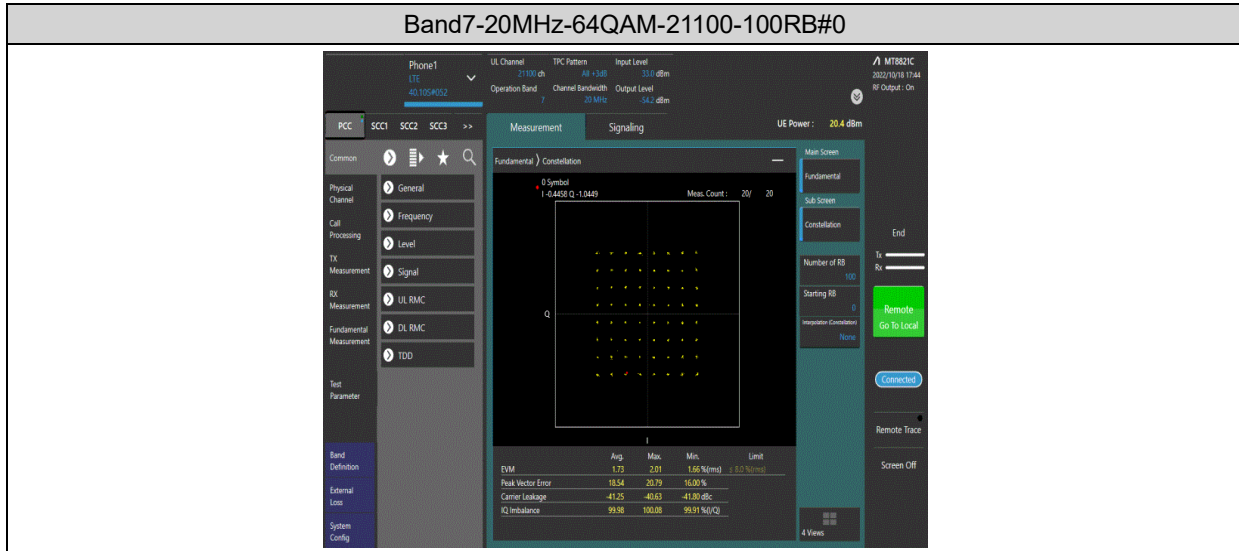
Test Graphs



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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	4.466	4.88	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.469	4.90	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.469	4.89	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.468	4.95	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.463	4.93	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.471	4.91	PASS
Band7	5MHz	64QAM	20775	25RB#0	4.477	4.91	PASS
Band7	5MHz	64QAM	21100	25RB#0	4.474	4.92	PASS
Band7	5MHz	64QAM	21425	25RB#0	4.48	4.93	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.921	9.72	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.923	9.70	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.926	9.66	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.904	9.66	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.909	9.66	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.901	9.64	PASS
Band7	10MHz	64QAM	20800	50RB#0	8.92	9.72	PASS
Band7	10MHz	64QAM	21100	50RB#0	8.926	9.70	PASS
Band7	10MHz	64QAM	21400	50RB#0	8.925	9.64	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.443	14.79	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.456	14.79	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.46	14.73	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.422	14.82	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.435	14.76	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.434	14.79	PASS
Band7	15MHz	64QAM	20825	75RB#0	13.404	14.79	PASS
Band7	15MHz	64QAM	21100	75RB#0	13.42	14.82	PASS
Band7	15MHz	64QAM	21375	75RB#0	13.428	14.85	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.885	19.40	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.884	19.36	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.902	19.48	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.845	19.40	PASS



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Report No.: SEWA221000060RG01

Rev.: 01

Page: 17 of 55

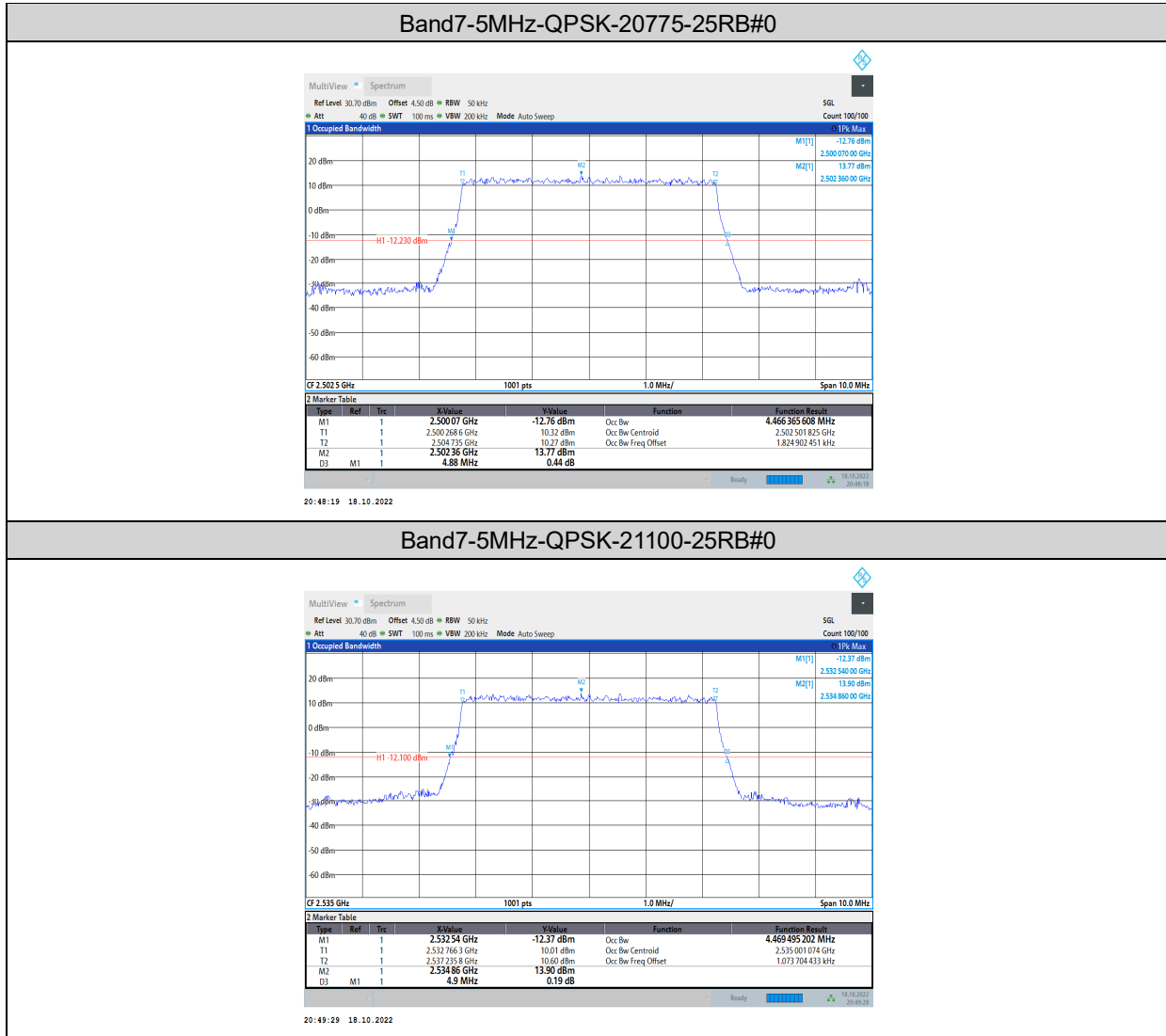
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Band7	20MHz	16QAM	21350	100RB#0	17.881	19.40	PASS
Band7	20MHz	64QAM	20850	100RB#0	17.852	19.48	PASS
Band7	20MHz	64QAM	21100	100RB#0	17.858	19.32	PASS
Band7	20MHz	64QAM	21350	100RB#0	17.871	19.36	PASS



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Test Graphs

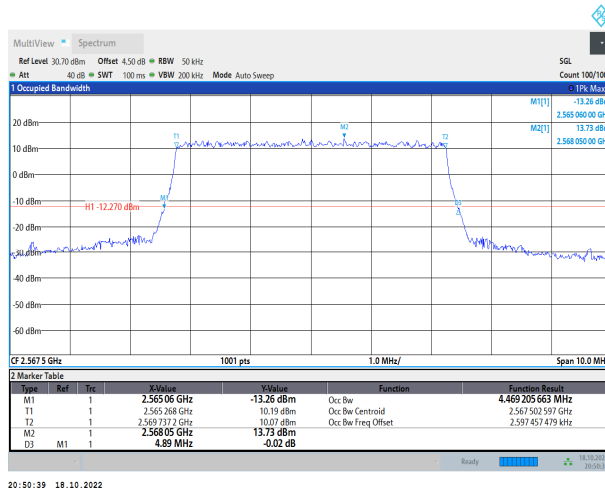


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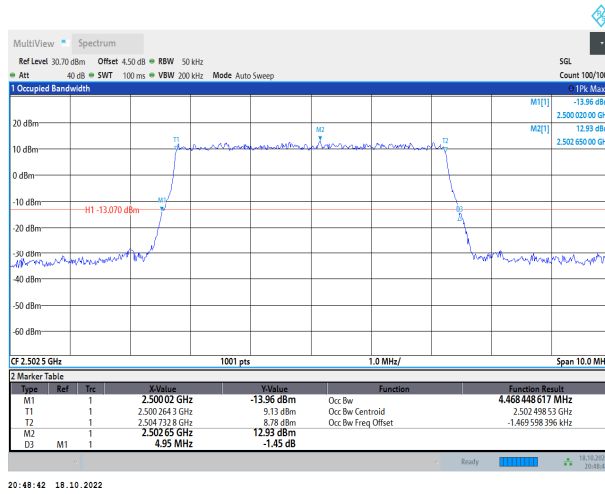
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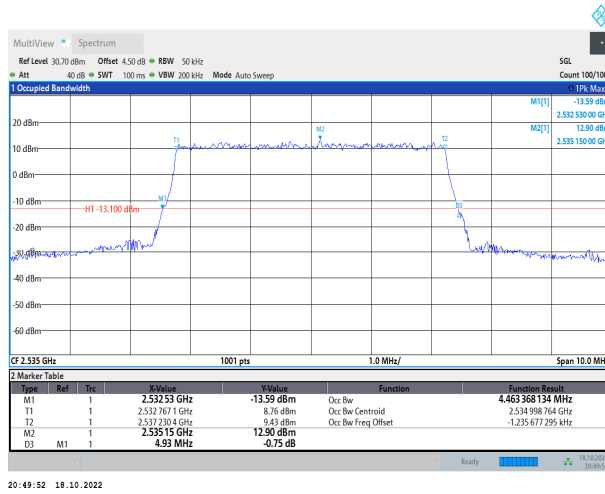


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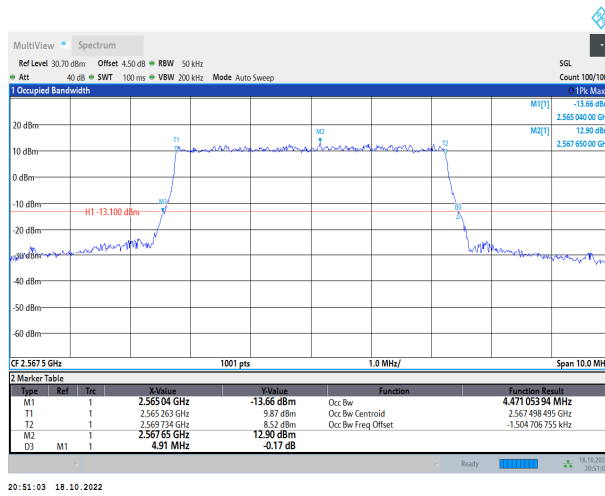
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Band7-5MHz-16QAM-21100-25RB#0



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

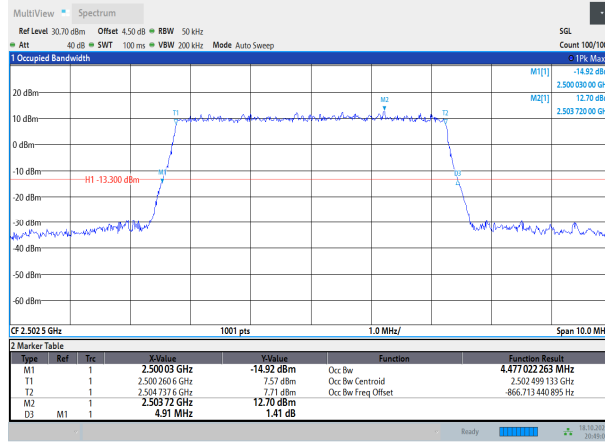


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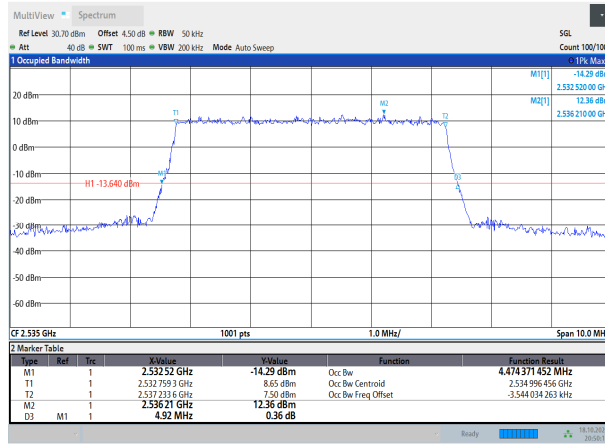
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Band7-5MHz-64QAM-20775-25RB#0



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

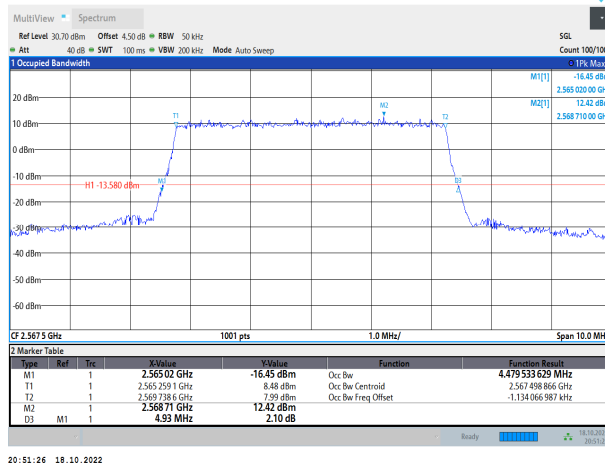


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**Band7-5MHz-64QAM-21425-25RB#0**



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

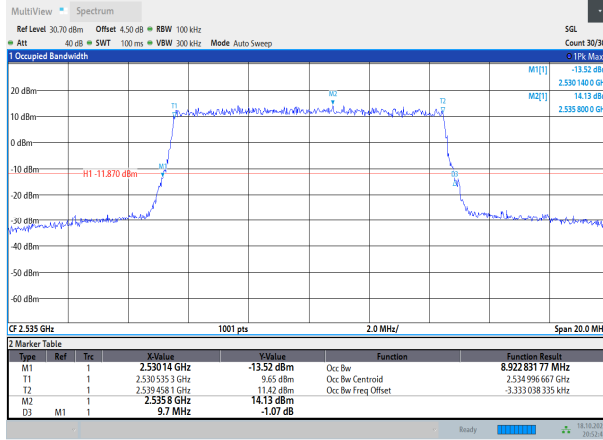


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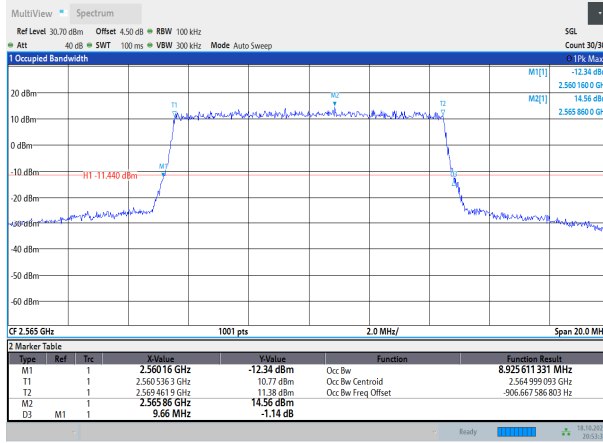
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Band7-10MHz-QPSK-21100-50RB#0



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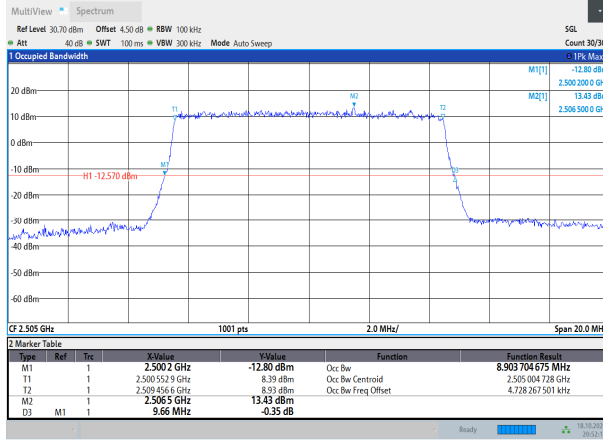


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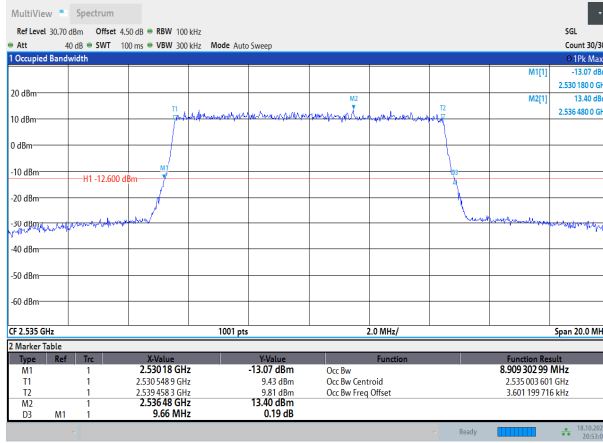
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Band7-10MHz-16QAM-20800-50RB#0



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



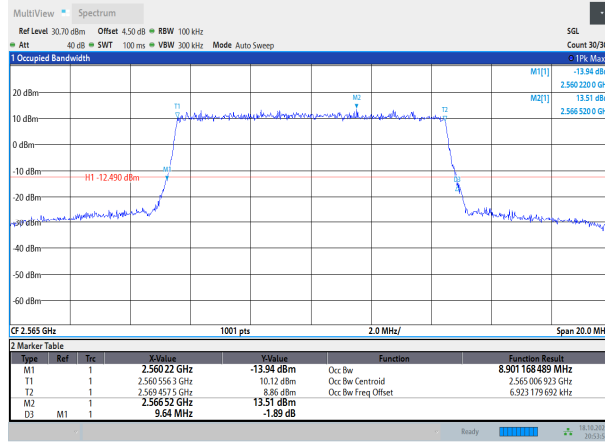
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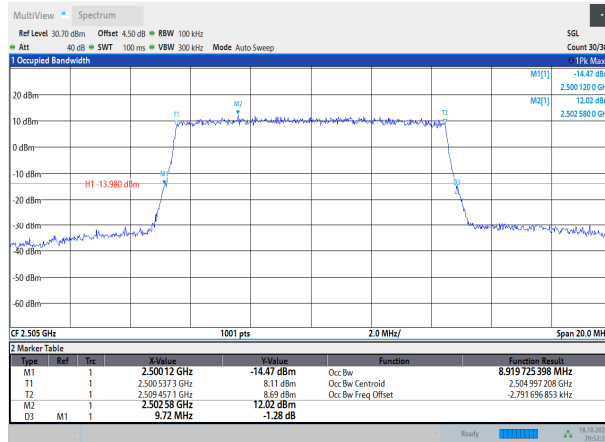


Band7-10MHz-16QAM-21400-50RB#0



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



20:52:29 18.10.2022

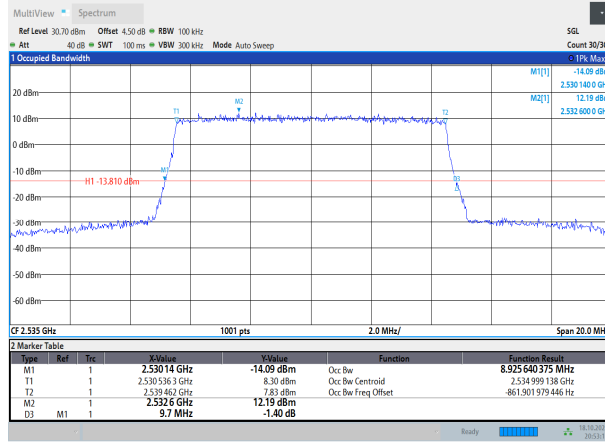


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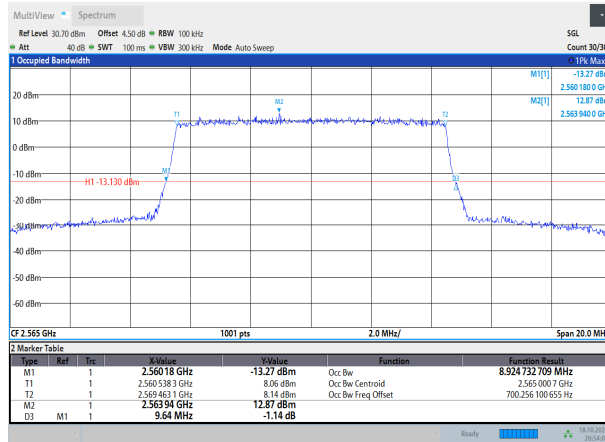
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Band7-10MHz-64QAM-21100-50RB#0



20:53:18 18.10.2022

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



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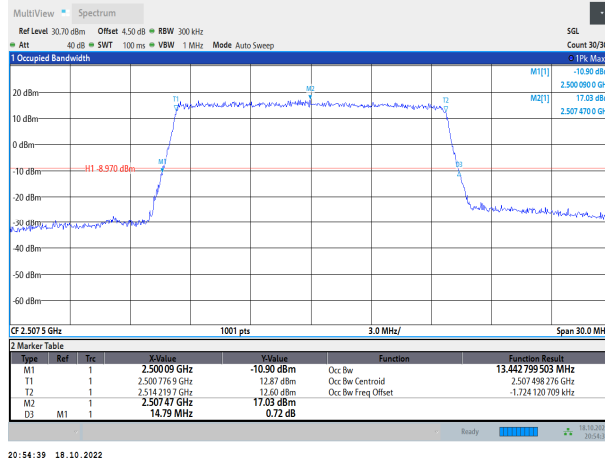


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Band7-15MHz-QPSK-20825-75RB#0



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

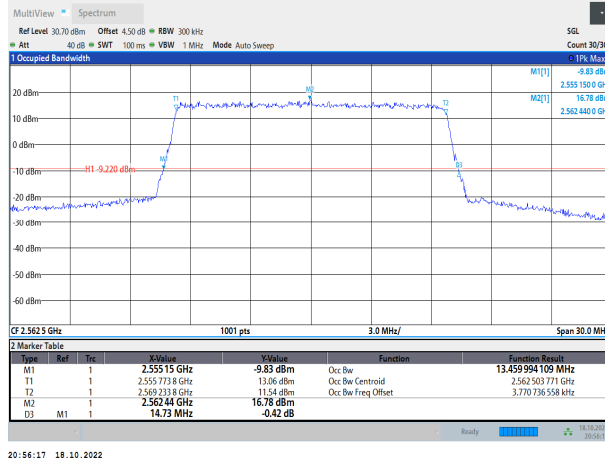


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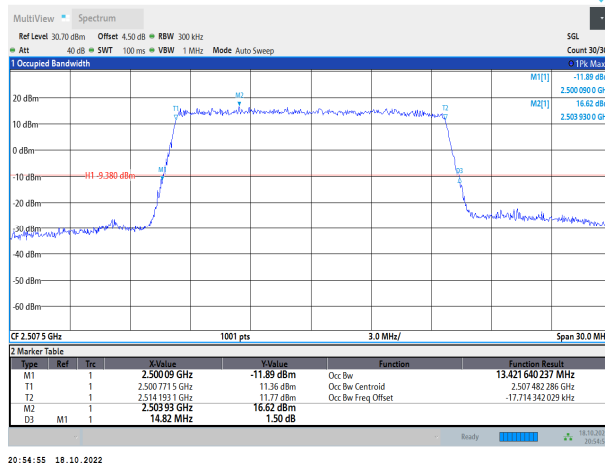
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Band7-15MHz-16QAM-20825-75RB#0

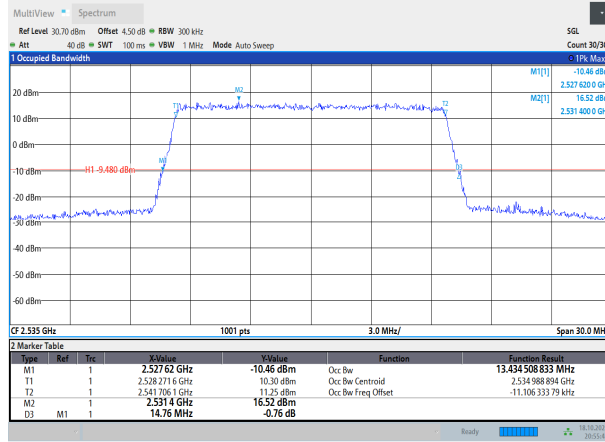


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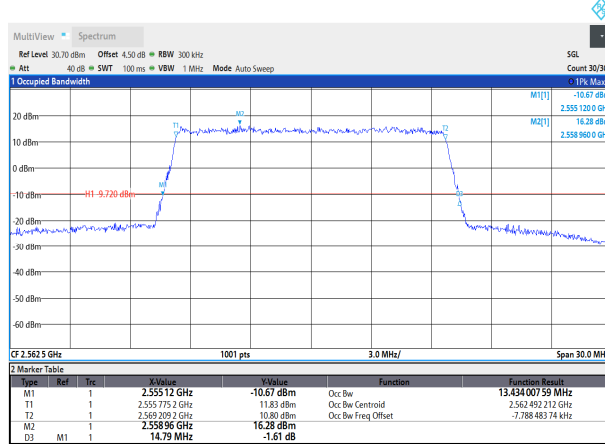
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Band7-15MHz-16QAM-21100-75RB#0



20:55:44 18.10.2022

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



20:56:33 18.10.2022

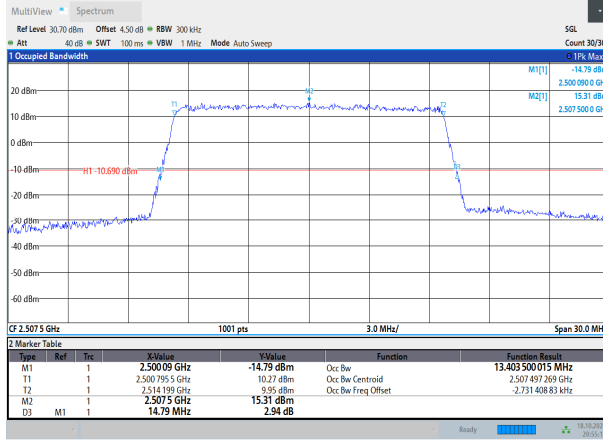


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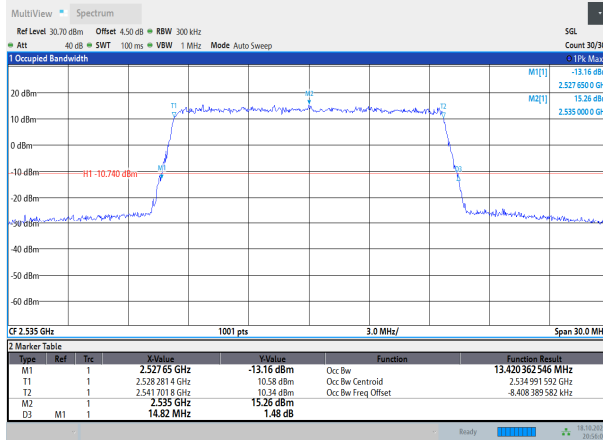
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Band7-15MHz-64QAM-20825-75RB#0



20:55:11 18.10.2022

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



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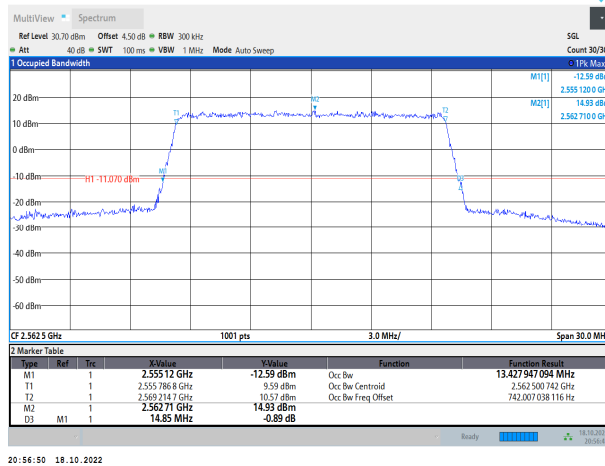


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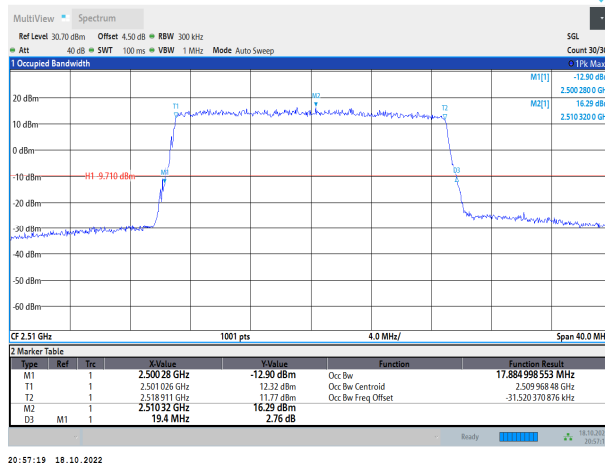
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Band7-20MHz-QPSK-20850-100RB#0

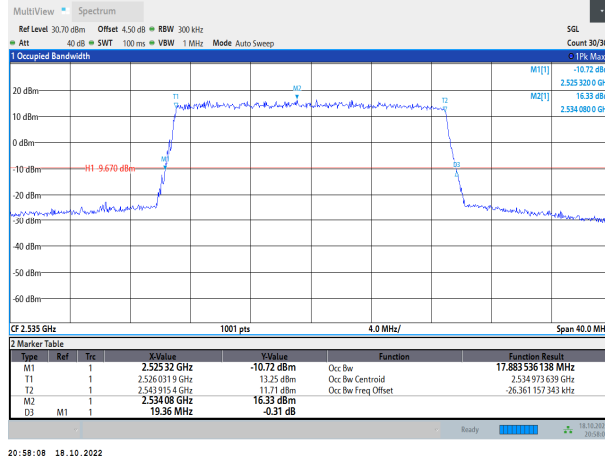


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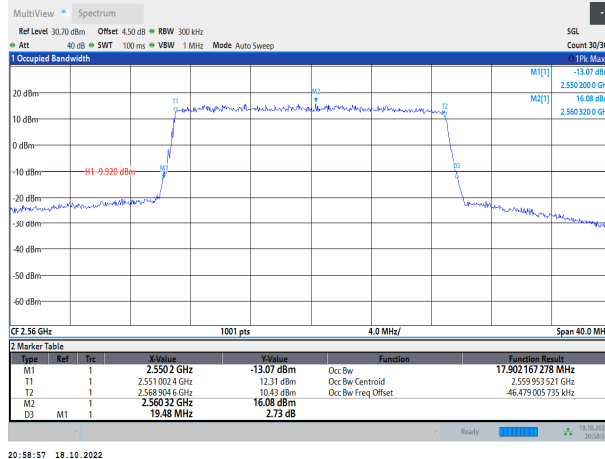
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Band7-20MHz-QPSK-21100-100RB#0



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



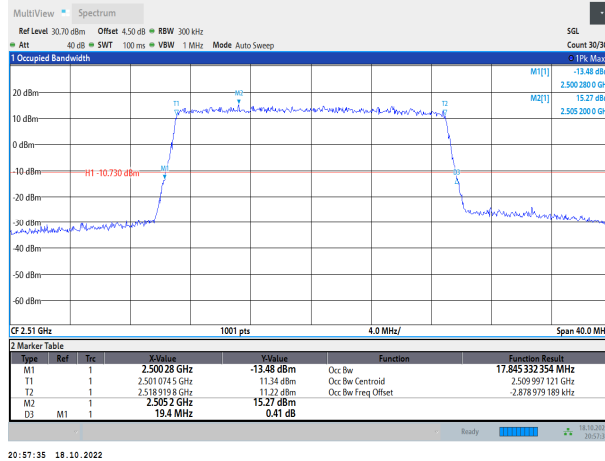
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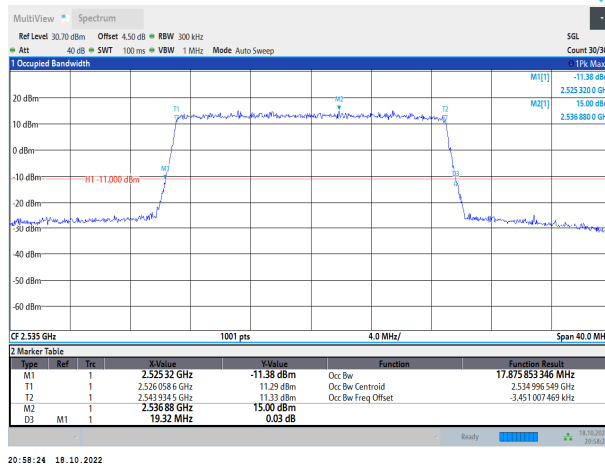
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Band7-20MHz-16QAM-20850-100RB#0



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

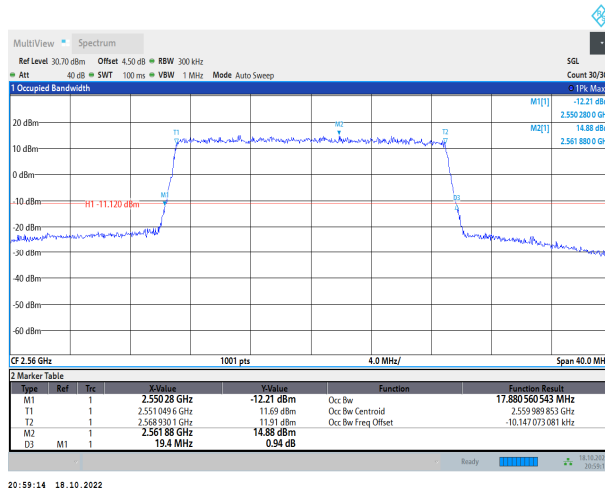


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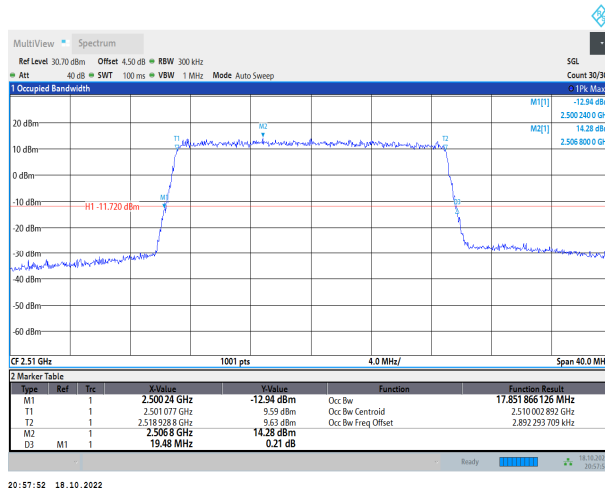
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Band7-20MHz-16QAM-21350-100RB#0



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

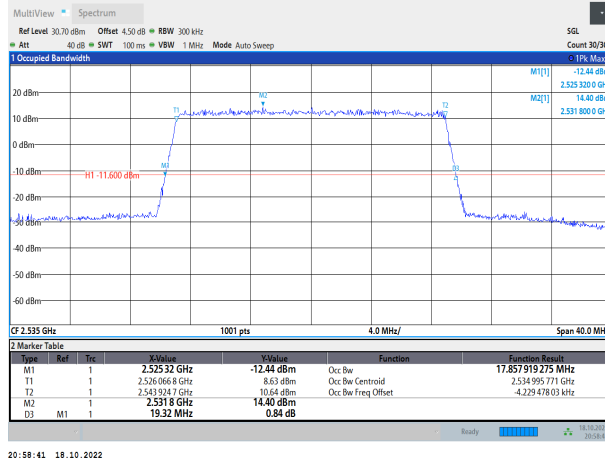


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Band7-20MHz-64QAM-21100-100RB#0



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



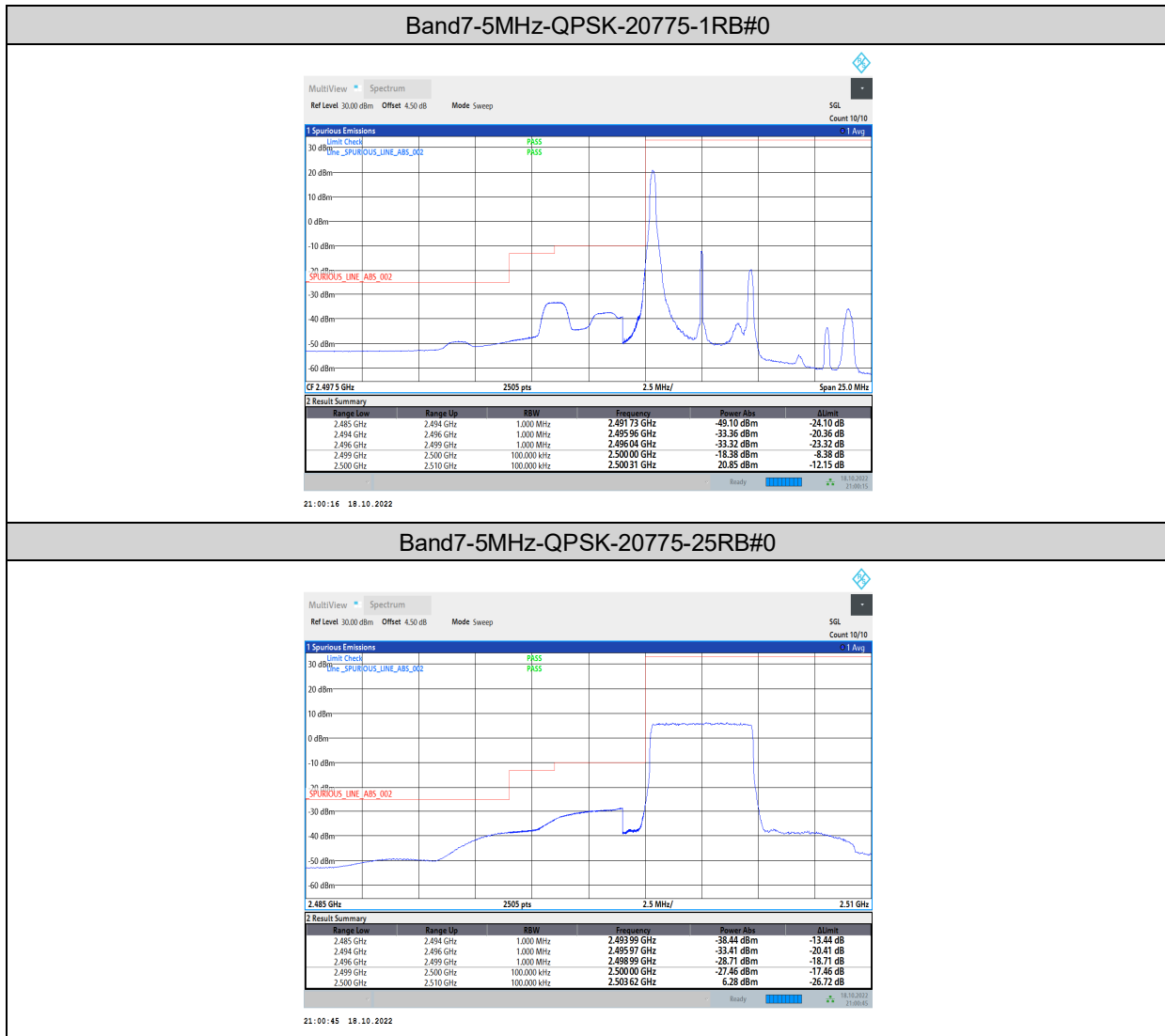
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## Band Edge

## Test Graphs

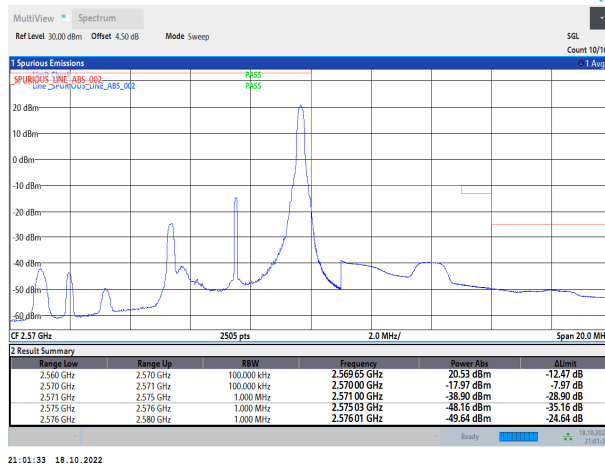


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Band7-5MHz-QPSK-21425-1RB#24



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



21:02:02 18.10.2022

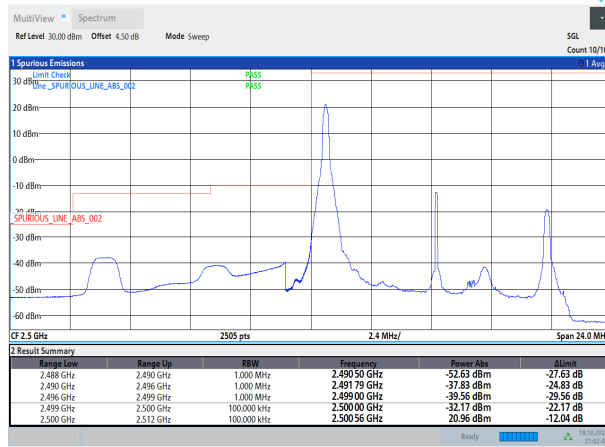


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Band7-10MHz-QPSK-20800-1RB#0



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



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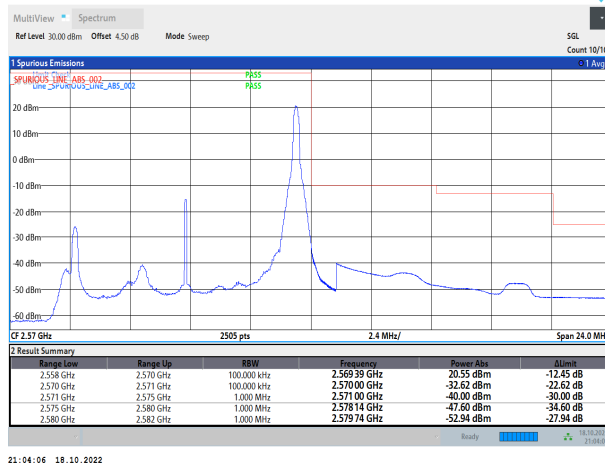


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Band7-10MHz-QPSK-21400-1RB#49



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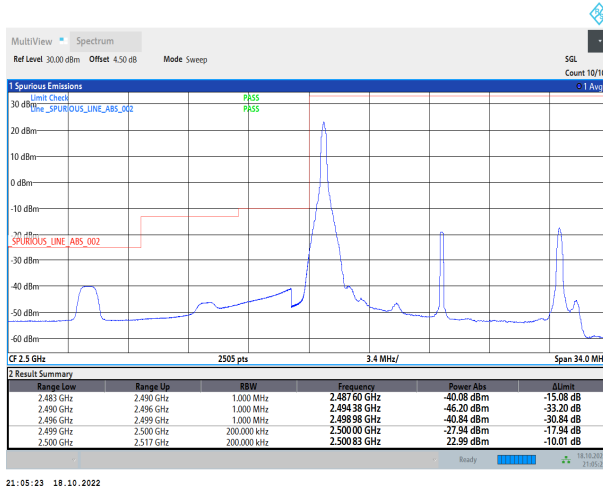


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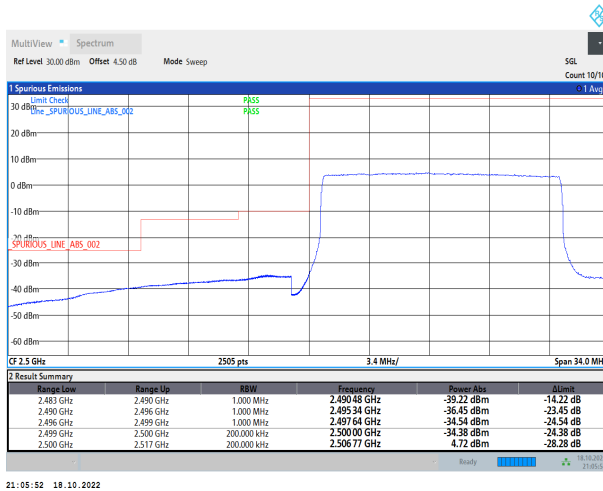
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Band7-15MHz-QPSK-20825-1RB#0



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



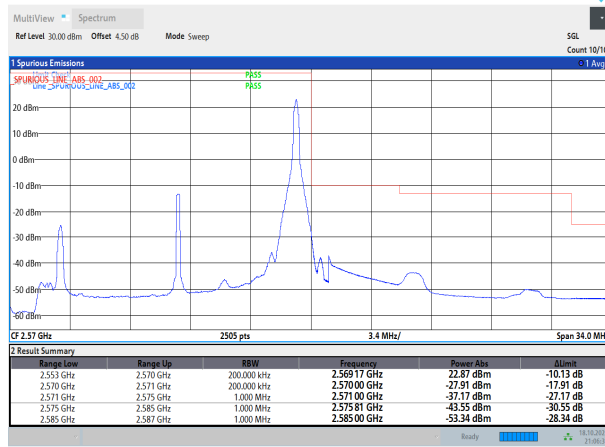
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Band7-15MHz-QPSK-21375-1RB#74



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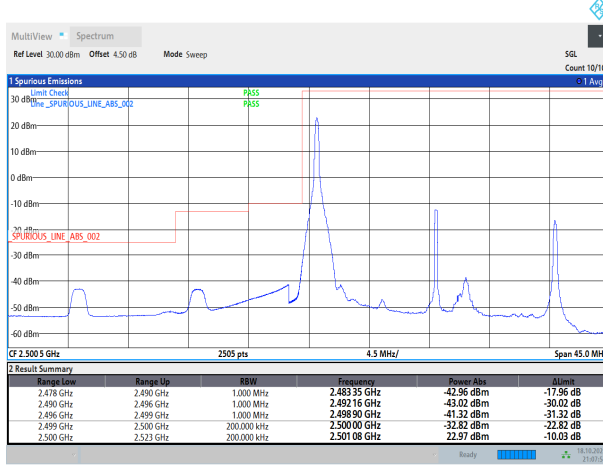


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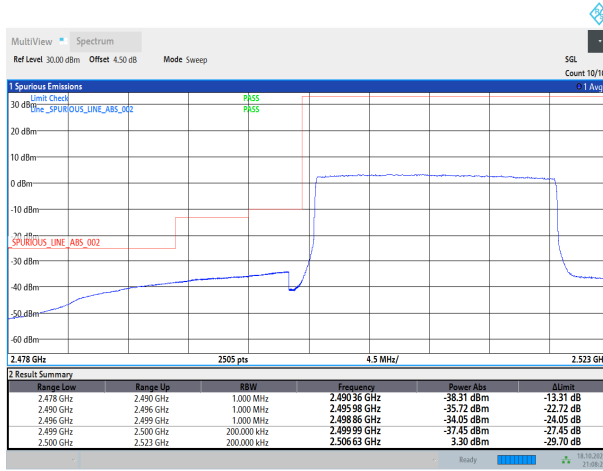
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Band7-20MHz-QPSK-20850-1RB#0



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

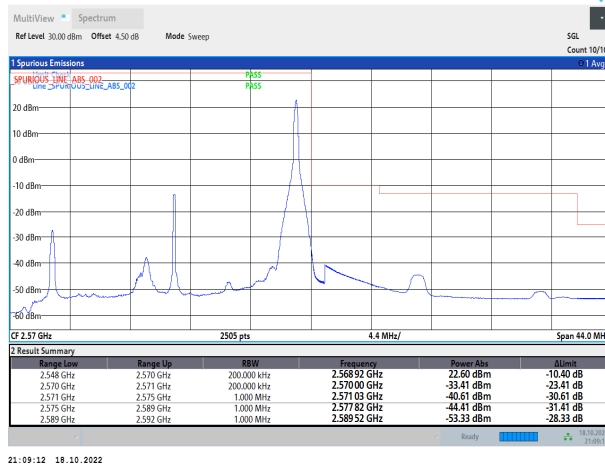


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21:09:12 18.10.2022

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



21:09:41 18.10.2022



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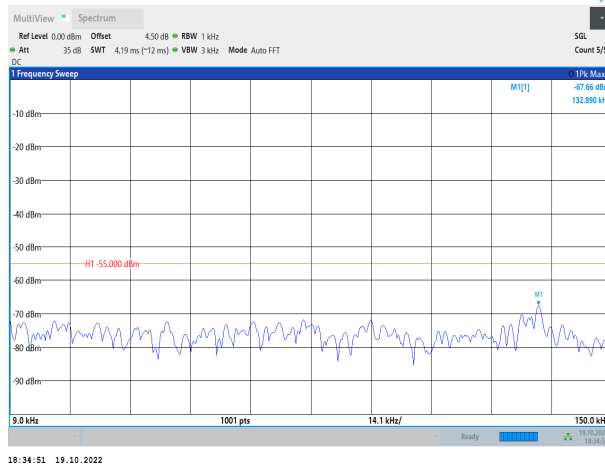
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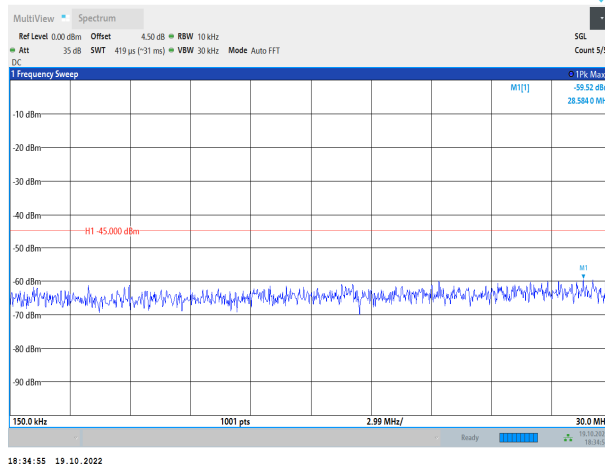
## Conducted Spurious Emission

### Test Graphs

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



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

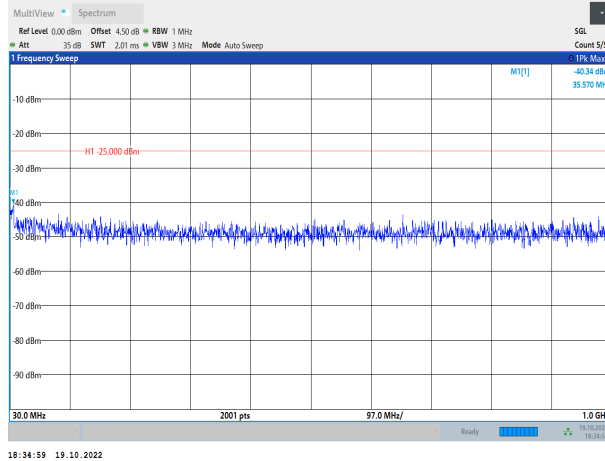


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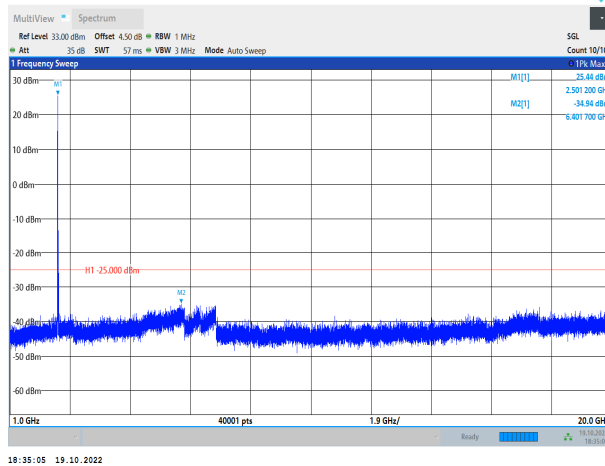
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Band7-20MHz-QPSK-20850-1RB#0-Range3:30~1000MHz



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

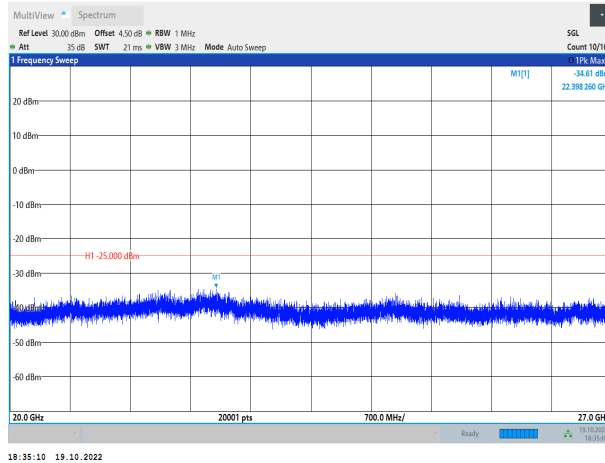


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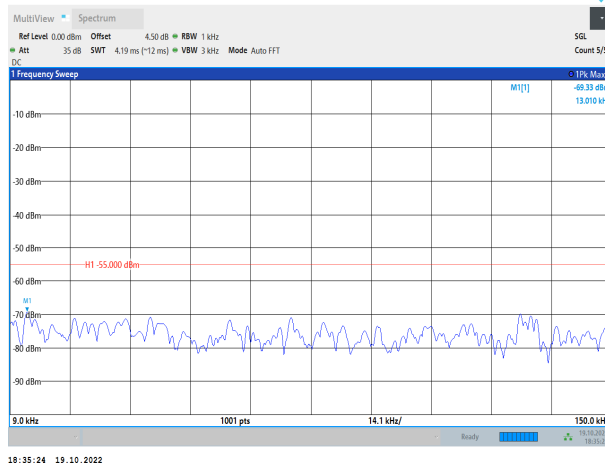
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Band7-20MHz-QPSK-20850-1RB#0-Range5:20000~27000MHz



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

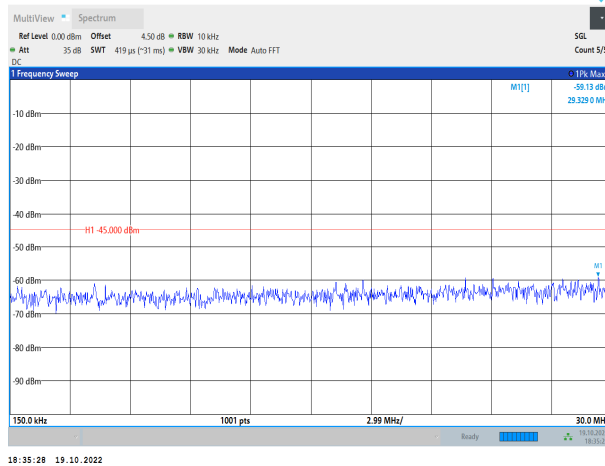


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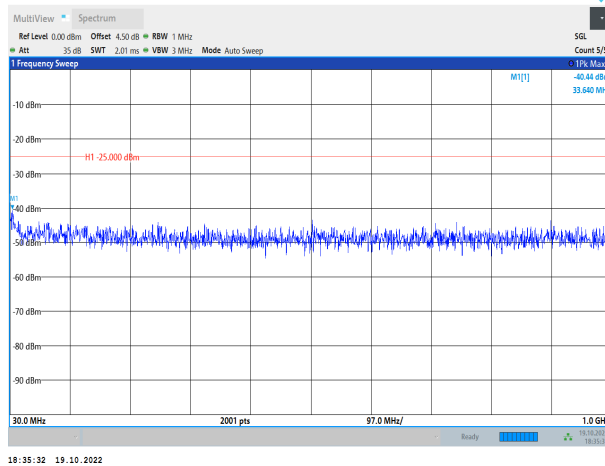
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Band7-20MHz-QPSK-21100-1RB#0-Range2:0.15~30MHz



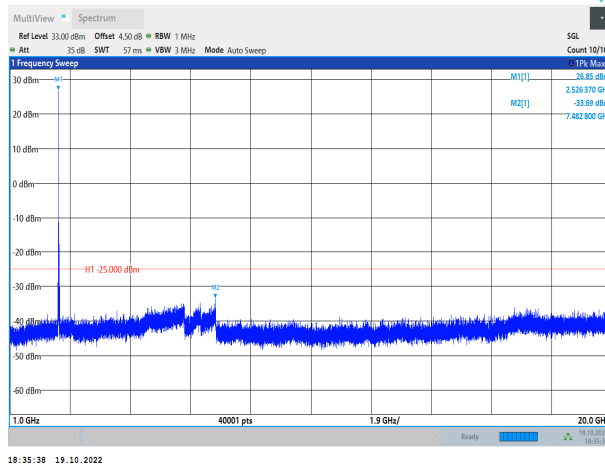
Band7-20MHz-QPSK-21100-1RB#0-Range3:30~1000MHz



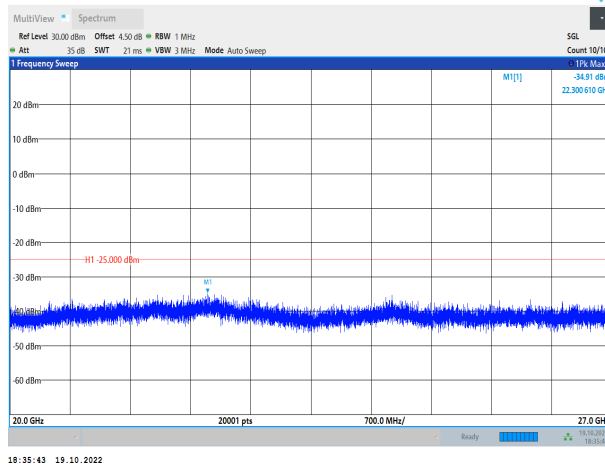
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Band7-20MHz-QPSK-21100-1RB#0-Range4:1000~20000MHz



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



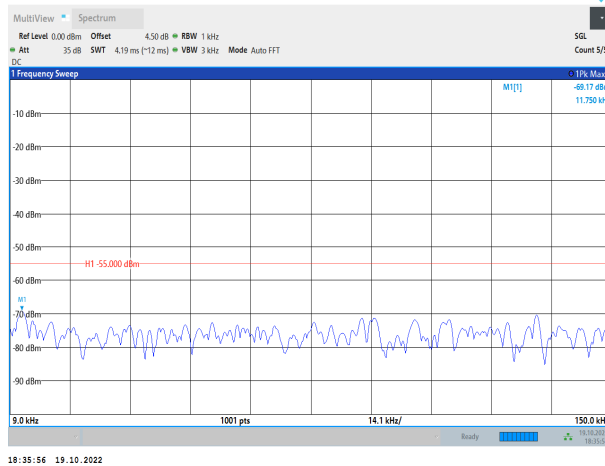
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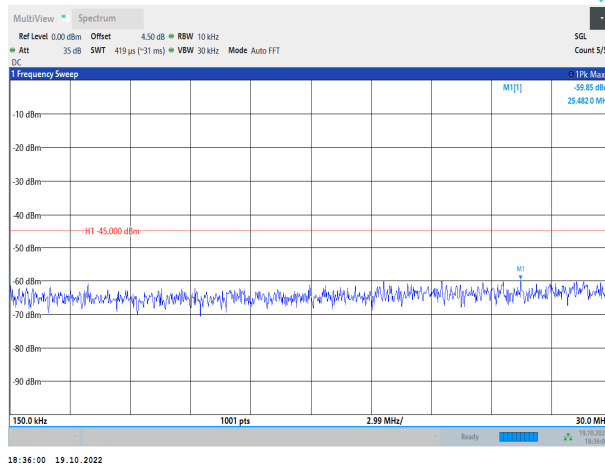
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Band7-20MHz-QPSK-21350-1RB#0-Range1:0.009~0.15MHz



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

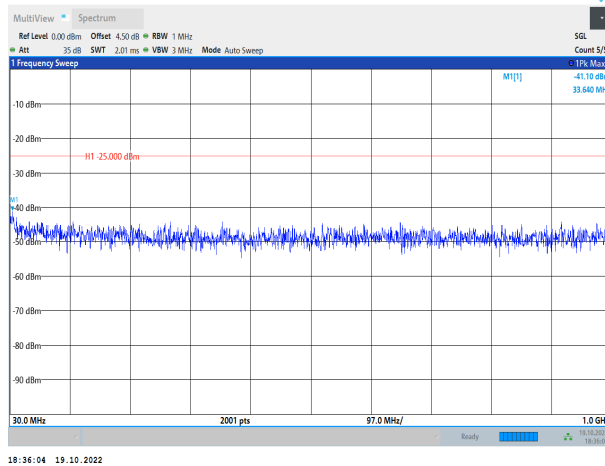


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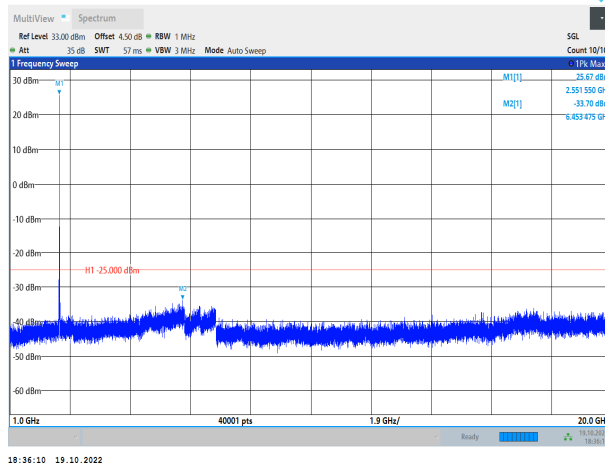
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Band7-20MHz-QPSK-21350-1RB#0-Range3:30~1000MHz



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

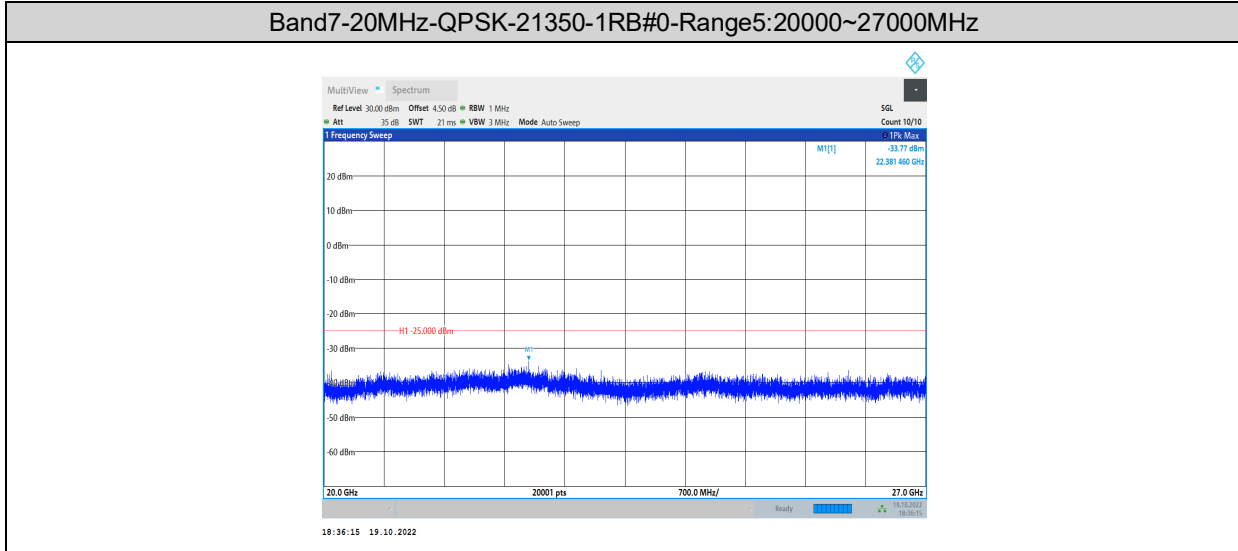


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Band7-20MHz-QPSK-21350-1RB#0-Range5:20000~27000MHz



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## Field Strength of Spurious Radiation

Test Band = LTE Band7\_ 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	50.84	-45.63	32.88	-57.17	-25.00	32.17	145	168	Horizontal
2	7503.2700	44.04	-43.13	36.44	-57.91	-25.00	32.91	165	1	Horizontal
3	10004.3600	36.41	-39.23	38.50	-59.59	-25.00	34.59	135	318	Horizontal
4	12505.4500	31.90	-36.99	39.18	-61.17	-25.00	36.17	192	332	Horizontal
5	15006.5400	29.44	-34.65	39.21	-61.26	-25.00	36.26	188	184	Horizontal
6	17507.6300	31.12	-34.95	39.22	-59.87	-25.00	34.87	176	184	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	55.69	-45.63	32.88	-52.32	-25.00	27.32	211	300	Vertical
2	7503.2700	44.86	-43.13	36.44	-57.09	-25.00	32.09	148	0	Vertical
3	10004.3600	36.52	-39.23	38.50	-59.48	-25.00	34.48	159	46	Vertical
4	12505.4500	31.92	-36.99	39.18	-61.15	-25.00	36.15	153	29	Vertical
5	15006.5400	29.75	-34.65	39.21	-60.95	-25.00	35.95	175	257	Vertical
6	17507.6300	32.30	-34.95	39.22	-58.69	-25.00	33.69	193	138	Vertical



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Test Band = LTE Band7\_ 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	50.35	-45.50	32.91	-57.50	-25.00	32.50	256	242	Horizontal
2	7578.2700	44.49	-42.97	36.40	-57.34	-25.00	32.34	148	331	Horizontal
3	10104.3600	37.04	-39.14	38.66	-58.70	-25.00	33.70	175	76	Horizontal
4	12630.4500	31.80	-37.33	39.33	-61.46	-25.00	36.46	153	121	Horizontal
5	15156.5400	30.47	-34.37	39.01	-60.15	-25.00	35.15	129	107	Horizontal
6	17682.6300	32.09	-33.89	40.06	-57.00	-25.00	32.00	130	107	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	57.13	-45.50	32.91	-50.72	-25.00	25.72	185	311	Vertical
2	7578.2700	44.15	-42.97	36.40	-57.68	-25.00	32.68	145	130	Vertical
3	10104.3600	36.49	-39.14	38.66	-59.25	-25.00	34.25	122	206	Vertical
4	12630.4500	31.68	-37.33	39.33	-61.58	-25.00	36.58	169	52	Vertical
5	15156.5400	29.59	-34.37	39.01	-61.03	-25.00	36.03	192	114	Vertical
6	17682.6300	32.15	-33.89	40.06	-56.94	-25.00	31.94	137	311	Vertical



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Test Band = LTE Band7\_ 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	52.44	-45.37	32.94	-55.25	-25.00	30.25	244	8	Horizontal
2	7653.2700	44.74	-43.03	36.49	-57.06	-25.00	32.06	159	270	Horizontal
3	10204.3600	36.46	-39.48	38.81	-59.47	-25.00	34.47	175	8	Horizontal
4	12755.4500	33.99	-36.76	39.55	-58.48	-25.00	33.48	142	210	Horizontal
5	15306.5400	30.69	-34.36	38.82	-60.11	-25.00	35.11	136	316	Horizontal
6	17857.6300	33.96	-34.56	41.24	-54.62	-25.00	29.62	258	0	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	55.84	-45.37	32.94	-51.85	-25.00	26.85	148	182	Vertical
2	7653.2700	45.32	-43.03	36.49	-56.48	-25.00	31.48	156	19	Vertical
3	10204.3600	36.05	-39.48	38.81	-59.88	-25.00	34.88	192	0	Vertical
4	12755.4500	32.06	-36.76	39.55	-60.41	-25.00	35.41	133	213	Vertical
5	15306.5400	30.03	-34.36	38.82	-60.77	-25.00	35.77	256	357	Vertical
6	17857.6300	34.52	-34.56	41.24	-54.06	-25.00	29.06	300	302	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	-2.40	-0.000947	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-3.50	-0.001381	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	-3.60	-0.001420	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	-2.90	-0.001144	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	-5.50	-0.002170	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	-2.40	-0.000947	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	-2.20	-0.000868	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	-3.50	-0.001381	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	-4.20	-0.001657	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-4.90	-0.001933	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	-1.00	-0.000394	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-3.90	-0.001538	PASS

 $|\text{MAX}(\Delta f)| = 5.5\text{Hz}$ 

Frequency Stability	Frequency (MHz)	Limit Line	Result
fL -  MAX(Δf)	2500.568954	≧ 2500 MHz	PASS
fH +  MAX(Δf)	2569.454182	≦ 2570 MHz	

---End of Attachment---



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