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# Appendix B.5

## LTE Band 5



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	23.96	19.51	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.74	19.29	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.98	19.53	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	23.19	18.74	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.95	19.5	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.97	19.52	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.94	19.49	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	23.16	18.71	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.94	19.49	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.7	19.25	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.95	19.5	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	23.16	18.71	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	23.12	18.67	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	23.18	18.73	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	23.14	18.69	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	22.29	17.84	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	23.07	18.62	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	23.18	18.73	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	23.06	18.61	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	22.27	17.82	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	23.21	18.76	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	23.18	18.73	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	23.11	18.66	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	22.26	17.81	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	22.3	17.85	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#2	22.28	17.83	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#5	22.27	17.82	38.45	PASS



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Band5	1.4MHz	64QAM	20407	6RB#0	21.18	16.73	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	22.23	17.78	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#2	22.25	17.8	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	22.24	17.79	38.45	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	21.15	16.7	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	22.17	17.72	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#2	22.28	17.83	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	22.22	17.77	38.45	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	21.22	16.77	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.88	19.43	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.96	19.51	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.85	19.4	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	23.09	18.64	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.84	19.39	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.89	19.44	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.84	19.39	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	23.08	18.63	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.82	19.37	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.98	19.53	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.85	19.4	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	23.1	18.65	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	23.11	18.66	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	23.2	18.75	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.96	18.51	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	22.11	17.66	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	23.04	18.59	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	23.1	18.65	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.97	18.52	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	22.09	17.64	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.99	18.54	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	23.09	18.64	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	23.09	18.64	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	22.08	17.63	38.45	PASS



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Band5	3MHz	64QAM	20415	1RB#0	22.16	17.71	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#8	22.19	17.74	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#14	22.12	17.67	38.45	PASS
Band5	3MHz	64QAM	20415	15RB#0	21.08	16.63	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#0	22.08	17.63	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#8	22.14	17.69	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#14	22.08	17.63	38.45	PASS
Band5	3MHz	64QAM	20525	15RB#0	21.13	16.68	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#0	22.11	17.66	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#8	22.27	17.82	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#14	22.09	17.64	38.45	PASS
Band5	3MHz	64QAM	20635	15RB#0	21.1	16.65	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.81	19.36	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.89	19.44	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.79	19.34	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	23.18	18.73	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.78	19.33	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.89	19.44	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.76	19.31	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	23.18	18.73	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.8	19.35	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.91	19.46	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.74	19.29	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	23.16	18.71	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	23.36	18.91	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	23.4	18.95	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	23.21	18.76	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	22.2	17.75	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	23.27	18.82	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	23.34	18.89	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	23.21	18.76	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	22.19	17.74	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	23.3	18.85	38.45	PASS



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Band5	5MHz	16QAM	20625	1RB#12	23.39	18.94	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	23.22	18.77	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	22.18	17.73	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#0	22.35	17.9	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#12	22.4	17.95	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#24	22.27	17.82	38.45	PASS
Band5	5MHz	64QAM	20425	25RB#0	21.23	16.78	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#0	22.29	17.84	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#12	22.36	17.91	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#24	22.23	17.78	38.45	PASS
Band5	5MHz	64QAM	20525	25RB#0	21.25	16.8	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#0	22.28	17.83	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#12	22.44	17.99	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#24	22.25	17.8	38.45	PASS
Band5	5MHz	64QAM	20625	25RB#0	21.22	16.77	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.91	19.46	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.94	19.49	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.82	19.37	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	23.19	18.74	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.86	19.41	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.89	19.44	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.86	19.41	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	23.19	18.74	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.88	19.43	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.95	19.5	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.85	19.4	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	23.19	18.74	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	23.46	19.01	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	23.4	18.95	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	23.36	18.91	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	22.17	17.72	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	23.33	18.88	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	23.38	18.93	38.45	PASS



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Band5	10MHz	16QAM	20525	50RB#0	22.17	17.72	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	23.44	18.99	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	23.47	19.02	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	23.34	18.89	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	22.19	17.74	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#0	22.41	17.96	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#24	22.35	17.9	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#49	22.34	17.89	38.45	PASS
Band5	10MHz	64QAM	20450	50RB#0	21.19	16.74	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#0	22.35	17.9	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#24	22.35	17.9	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#49	22.37	17.92	38.45	PASS
Band5	10MHz	64QAM	20525	50RB#0	21.21	16.76	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#0	22.35	17.9	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#24	22.38	17.93	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#49	22.34	17.89	38.45	PASS
Band5	10MHz	64QAM	20600	50RB#0	21.21	16.76	38.45	PASS



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## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	5.32	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.18	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.38	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.06	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.82	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.16	13	PASS
Band5	10MHz	64QAM	20450	50RB#0	6.44	13	PASS
Band5	10MHz	64QAM	20525	50RB#0	6.26	13	PASS
Band5	10MHz	64QAM	20600	50RB#0	6.38	13	PASS



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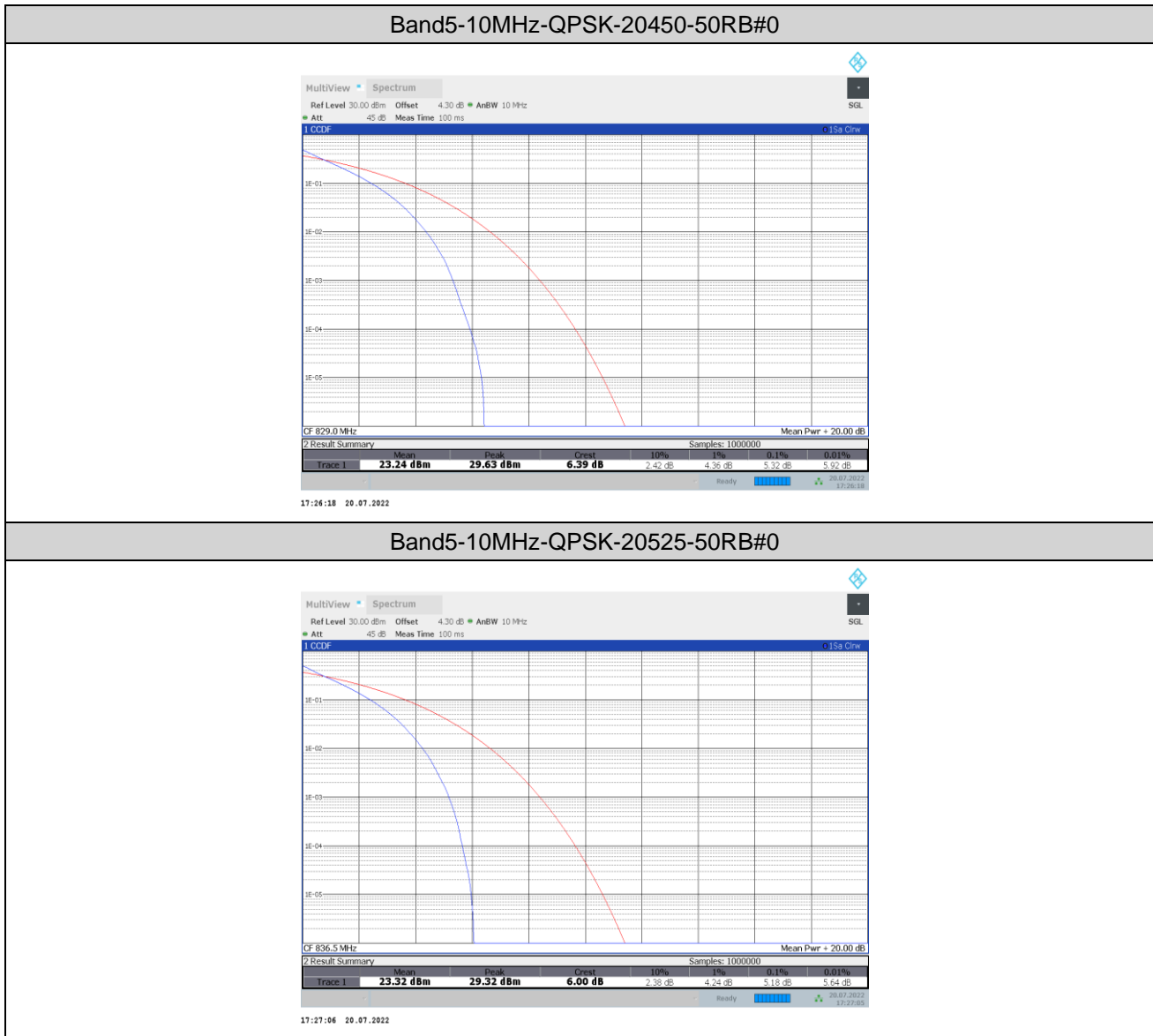
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Test Graphs



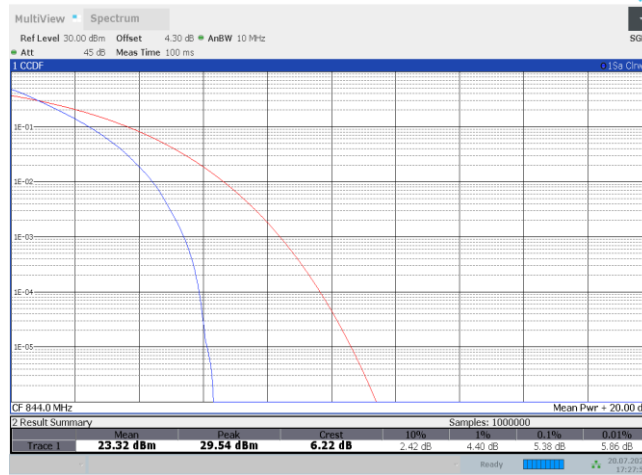
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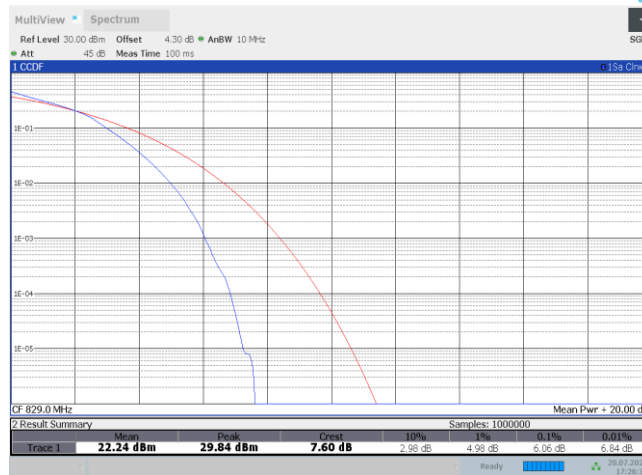


Band5-10MHz-QPSK-20600-50RB#0



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Band5-10MHz-16QAM-20450-50RB#0



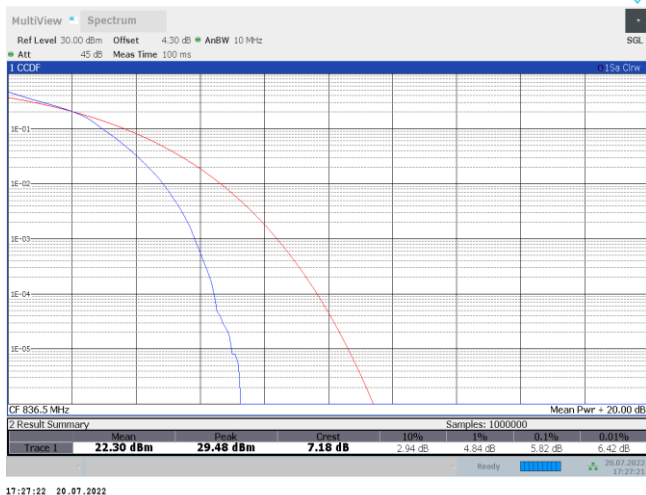
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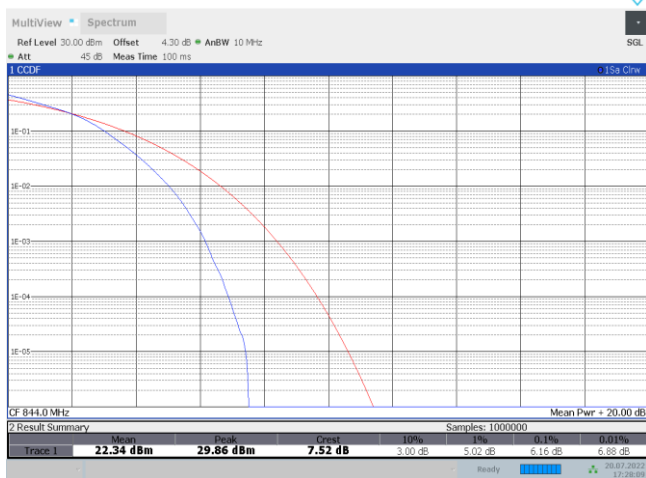
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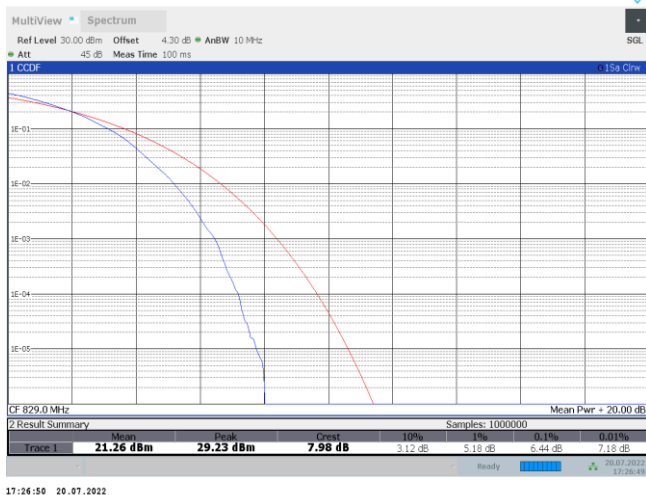


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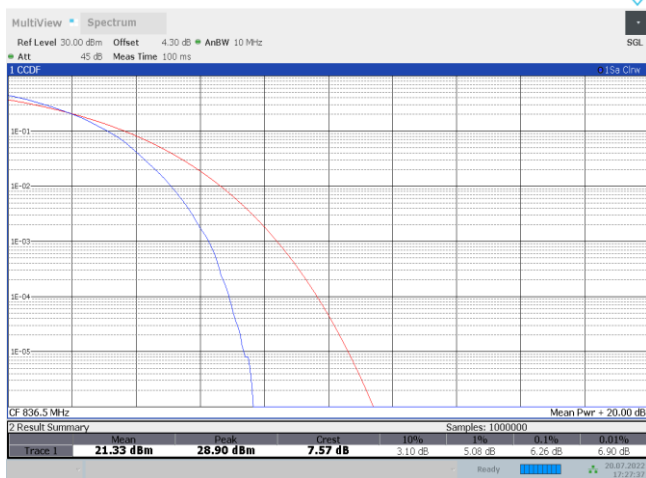
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Band5-10MHz-64QAM-20450-50RB#0



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Band5-10MHz-64QAM-20525-50RB#0

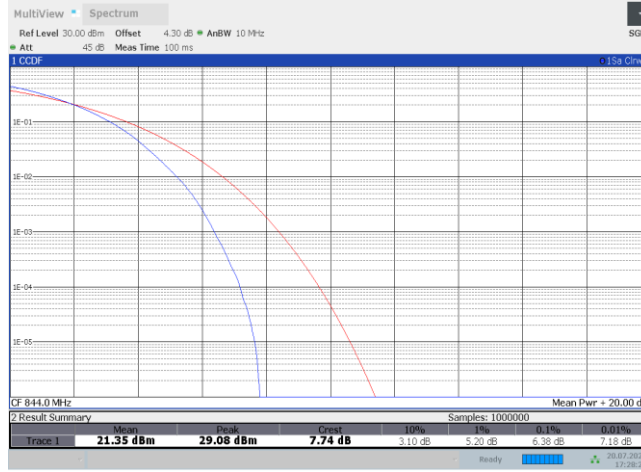


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Band5-10MHz-64QAM-20600-50RB#0



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## Modulation Characteristics

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band5	10MHz	QPSK	20525	50RB#0	PASS	PASS
Band5	10MHz	16QAM	20525	50RB#0	PASS	PASS
Band5	10MHz	64QAM	20525	50RB#0	PASS	PASS



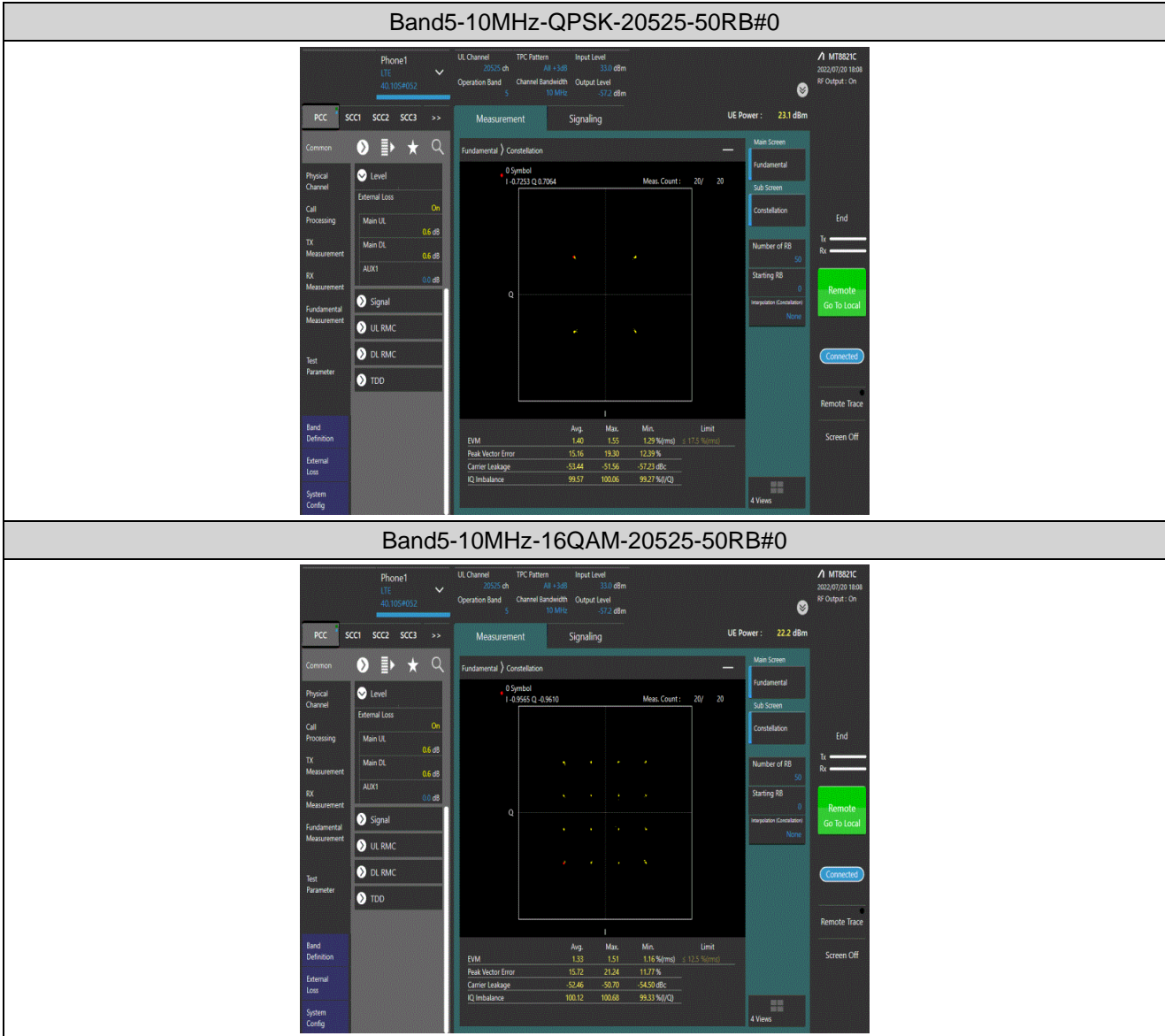
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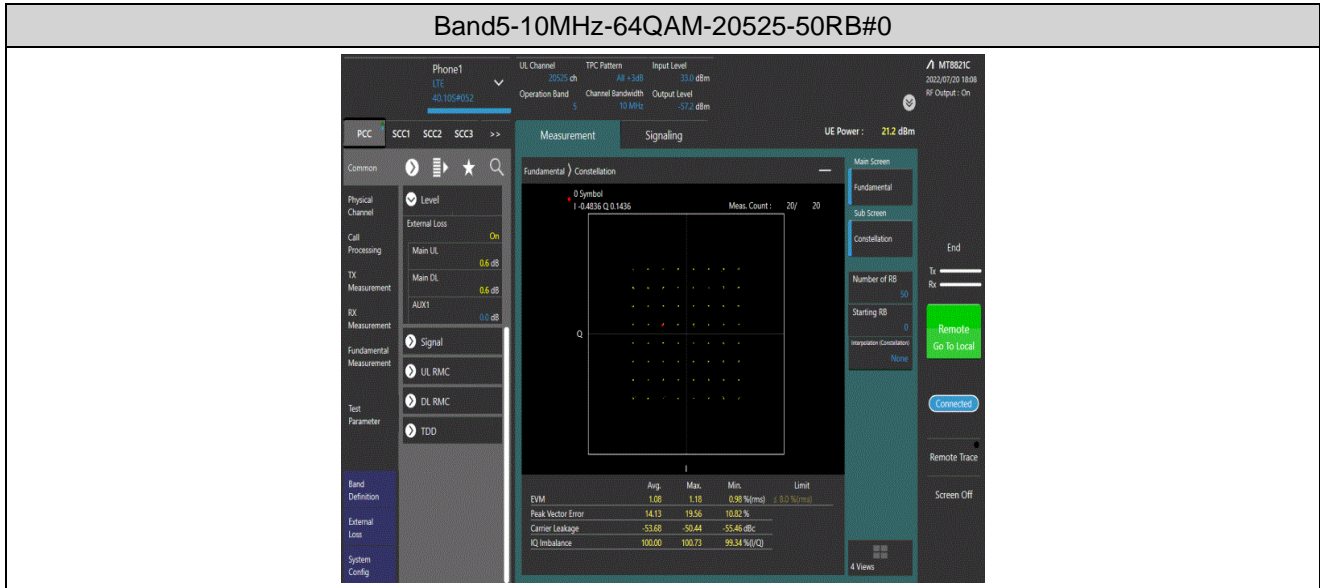
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Test Graphs



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.087	1.27	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.088	1.27	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.087	1.27	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.096	1.28	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.099	1.28	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.100	1.29	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	1.099	1.29	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	1.095	1.29	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	1.098	1.30	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.684	2.96	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.687	2.98	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.686	2.95	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.676	2.94	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.678	2.96	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.676	2.98	PASS
Band5	3MHz	64QAM	20415	15RB#0	2.677	2.93	PASS
Band5	3MHz	64QAM	20525	15RB#0	2.682	2.93	PASS
Band5	3MHz	64QAM	20635	15RB#0	2.679	2.93	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.470	4.82	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.471	4.85	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.466	4.83	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.467	4.85	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.471	4.88	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.464	4.83	PASS
Band5	5MHz	64QAM	20425	25RB#0	4.472	4.81	PASS
Band5	5MHz	64QAM	20525	25RB#0	4.475	4.82	PASS
Band5	5MHz	64QAM	20625	25RB#0	4.478	4.85	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.919	9.58	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.936	9.56	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.906	9.60	PASS



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Rev.: 01

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Band5	10MHz	16QAM	20450	50RB#0	8.916	9.54	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.916	9.56	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.898	9.56	PASS
Band5	10MHz	64QAM	20450	50RB#0	8.921	9.58	PASS
Band5	10MHz	64QAM	20525	50RB#0	8.926	9.60	PASS
Band5	10MHz	64QAM	20600	50RB#0	8.918	9.58	PASS

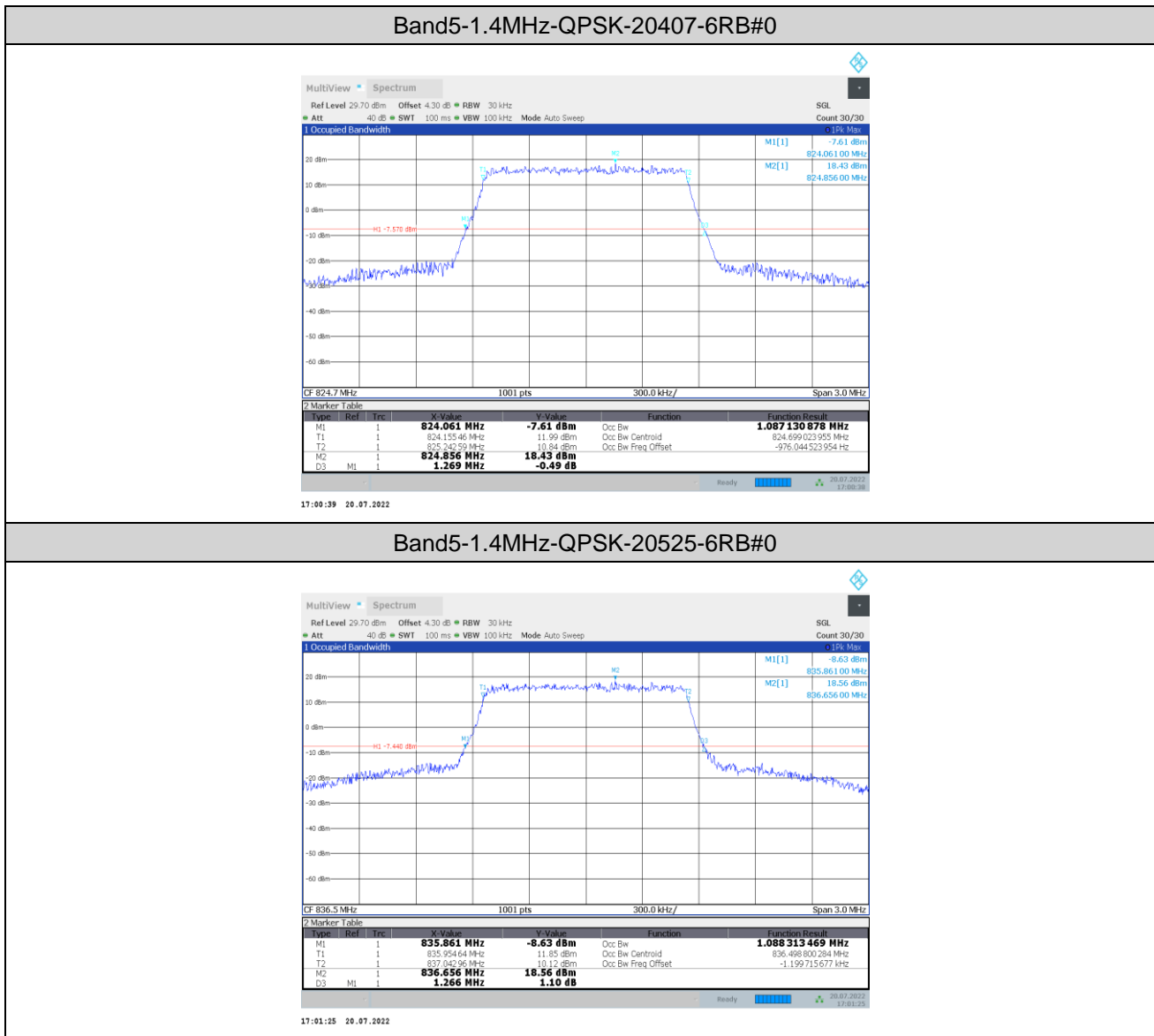


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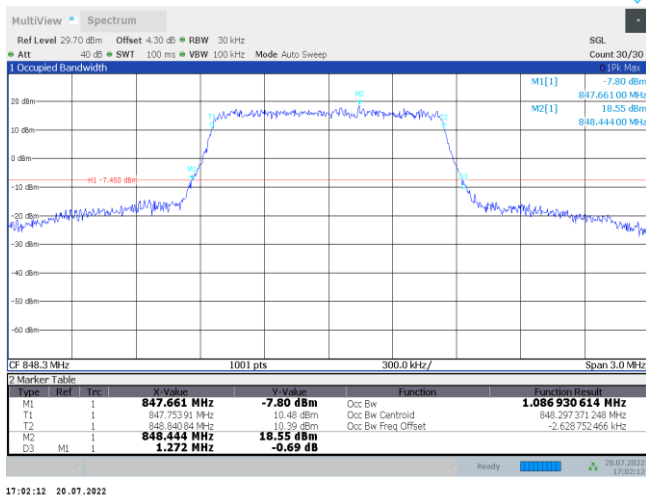


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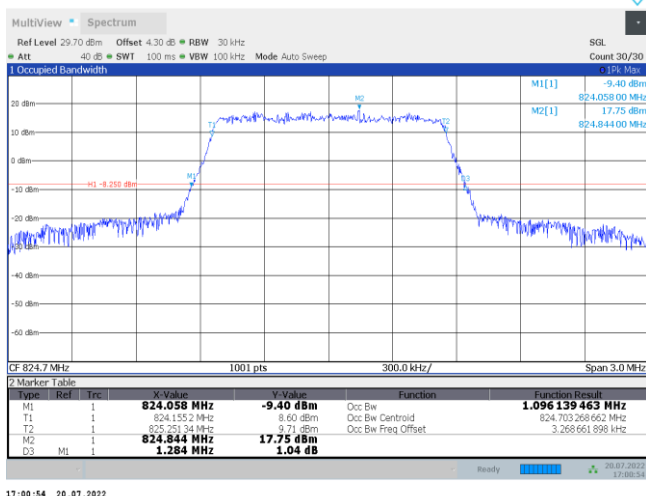
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Band5-1.4MHz-QPSK-20643-6RB#0



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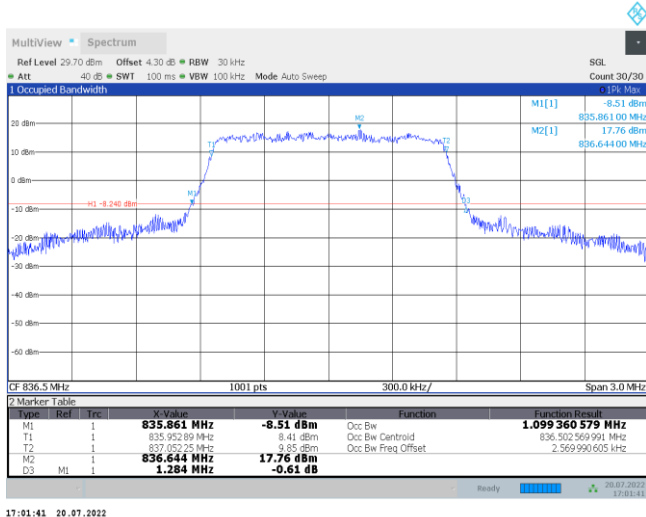


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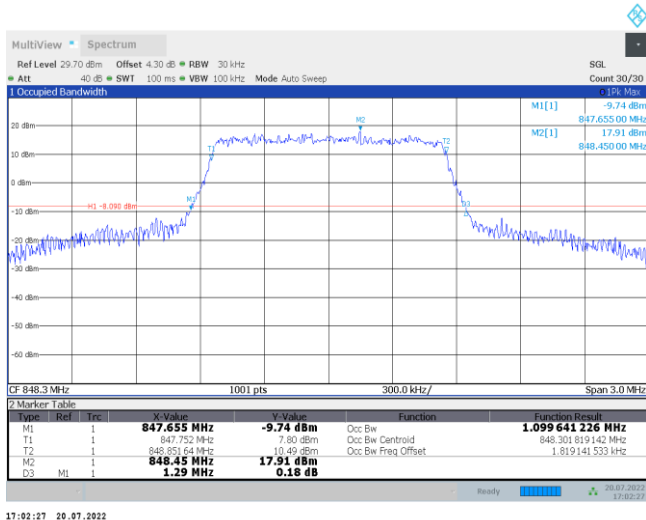


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Band5-1.4MHz-16QAM-20525-6RB#0



Band5-1.4MHz-16QAM-20643-6RB#0

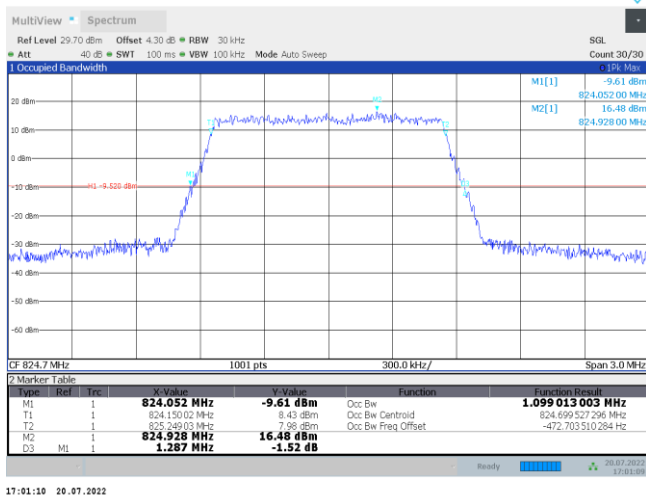


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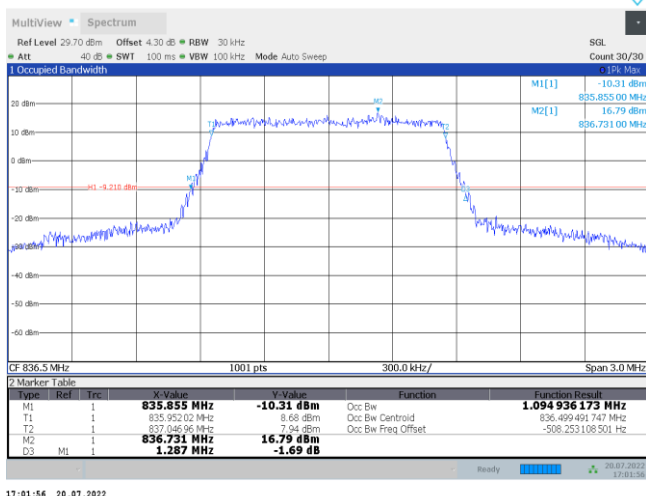
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Band5-1.4MHz-64QAM-20407-6RB#0



Band5-1.4MHz-64QAM-20525-6RB#0

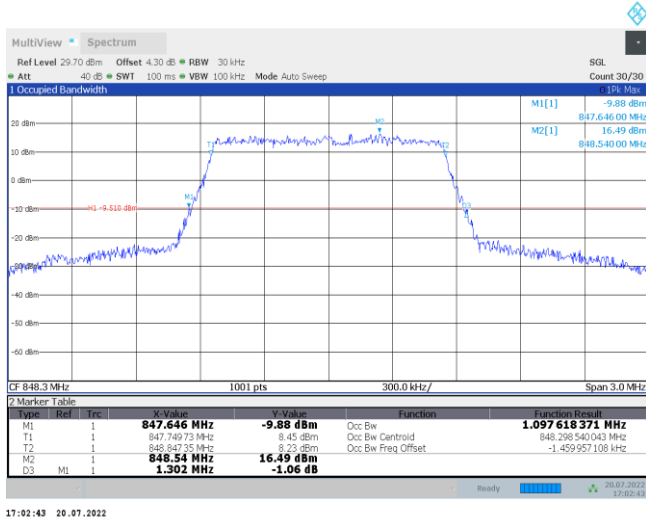


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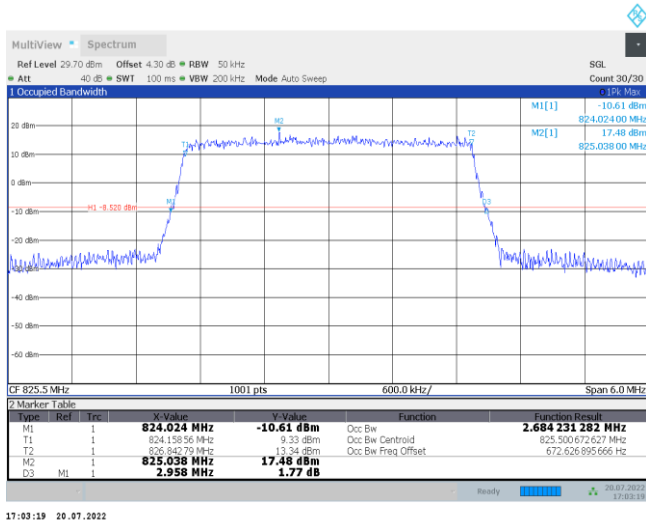
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Band5-1.4MHz-64QAM-20643-6RB#0



Band5-3MHz-QPSK-20415-15RB#0

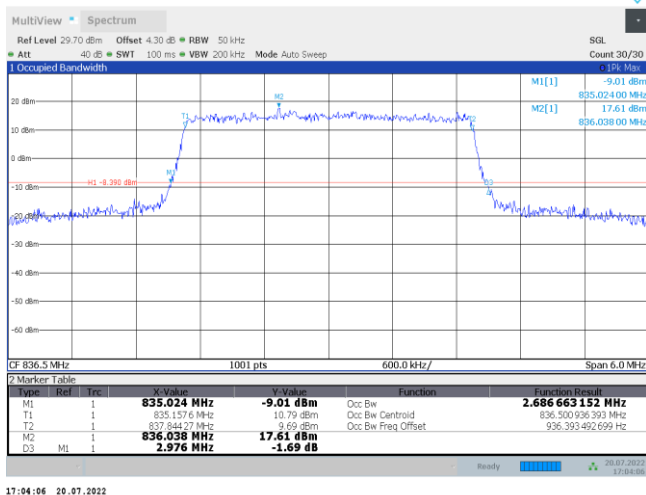


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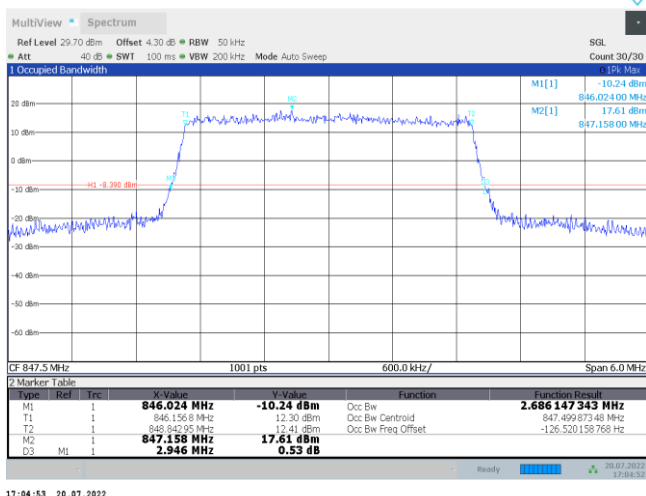
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Band5-3MHz-QPSK-20525-15RB#0

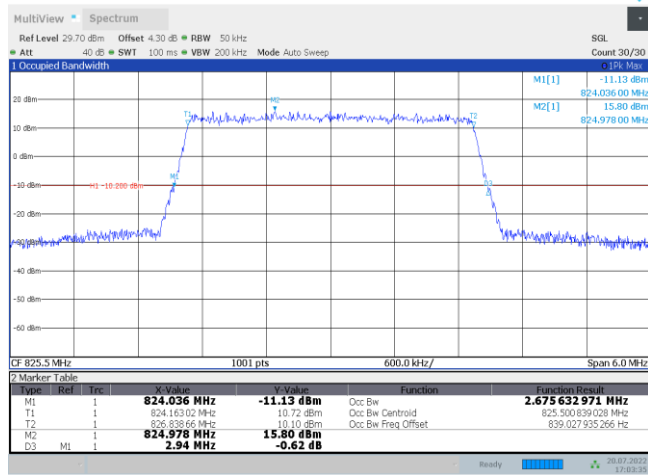


Band5-3MHz-QPSK-20635-15RB#0



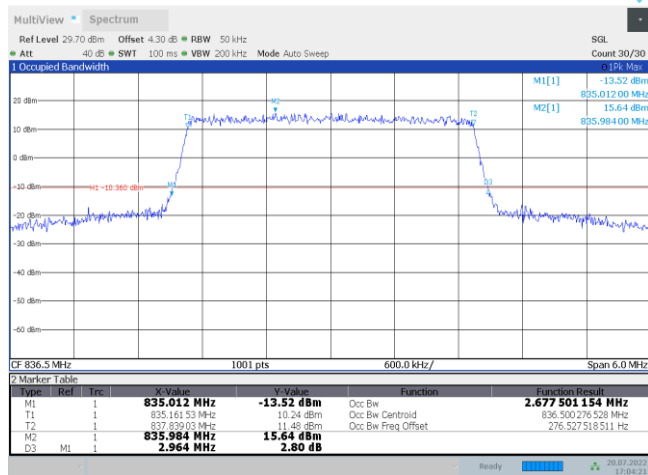
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Band5-3MHz-16QAM-20415-15RB#0



17:03:35 20.07.2022

Band5-3MHz-16QAM-20525-15RB#0



17:04:22 20.07.2022

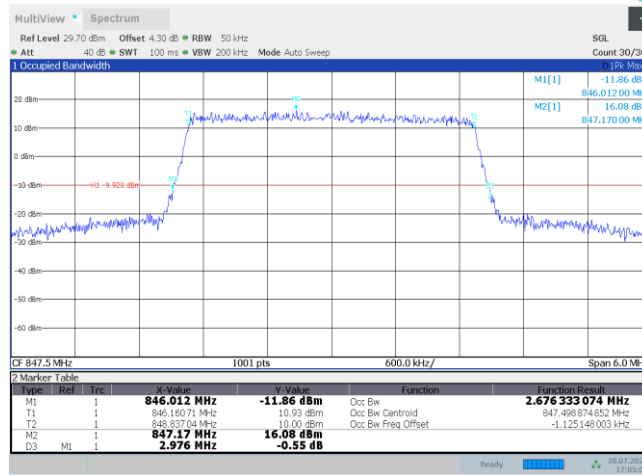


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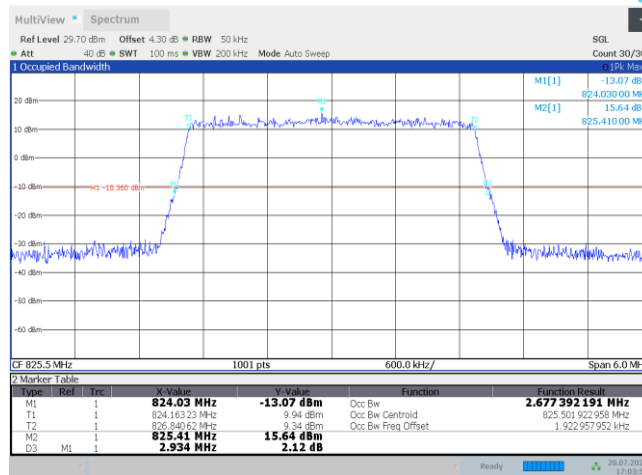


Band5-3MHz-16QAM-20635-15RB#0



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Band5-3MHz-64QAM-20415-15RB#0



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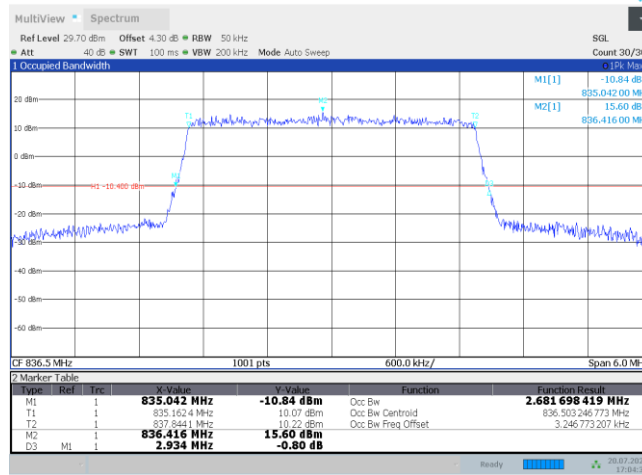
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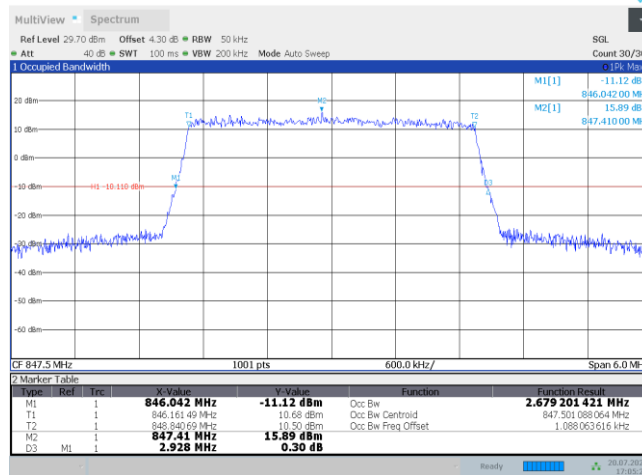
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Band5-3MHz-64QAM-20525-15RB#0



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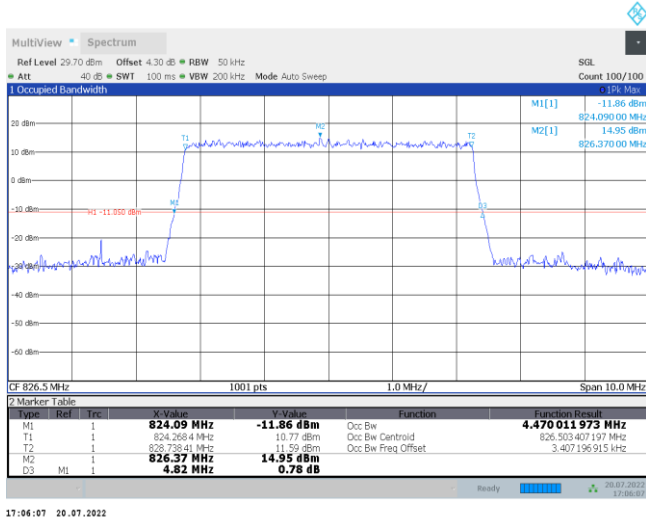
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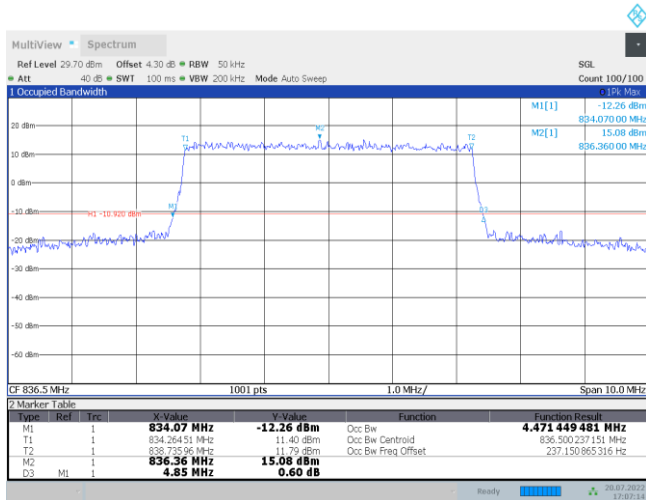
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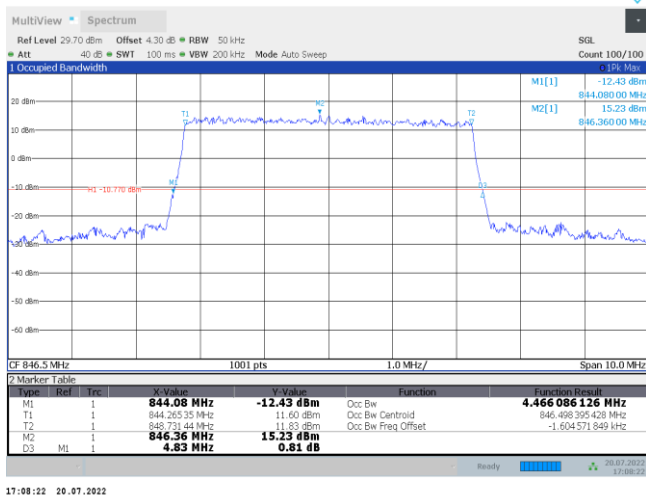


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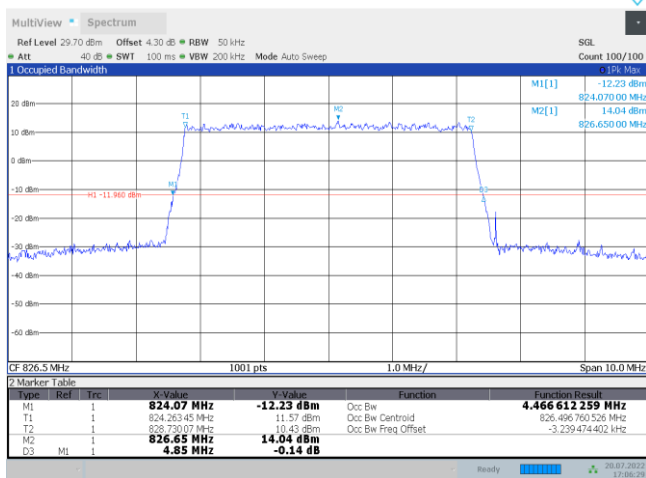
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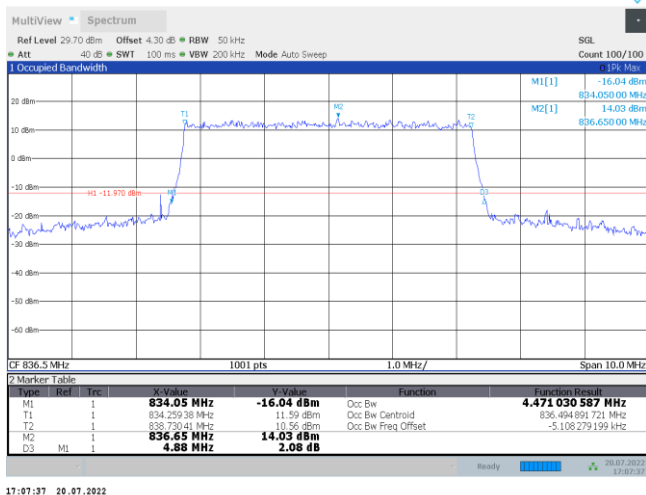


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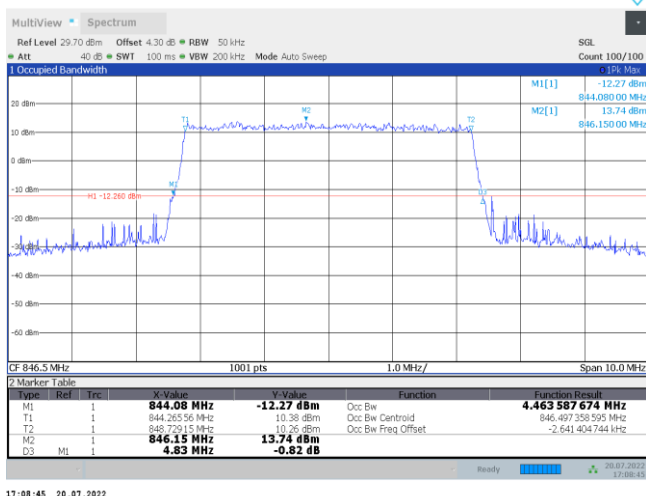


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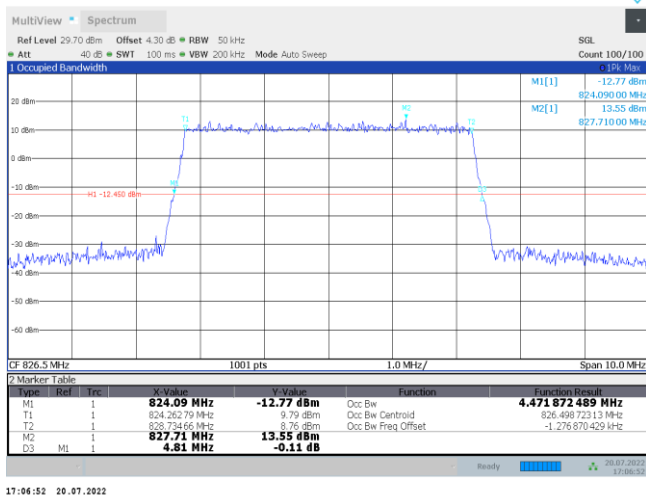


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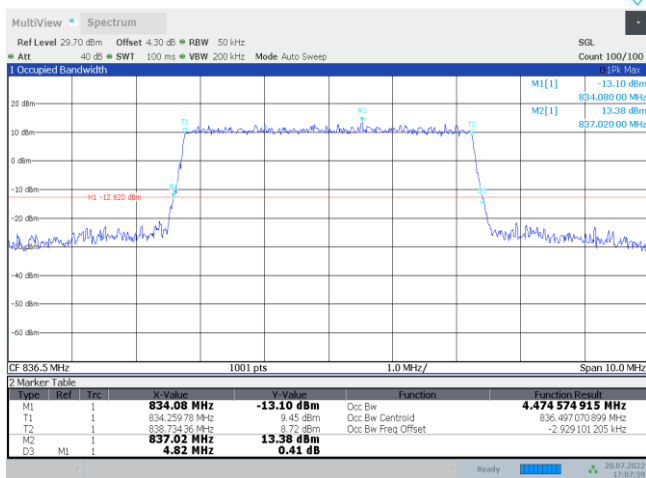
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Band5-5MHz-64QAM-20425-25RB#0



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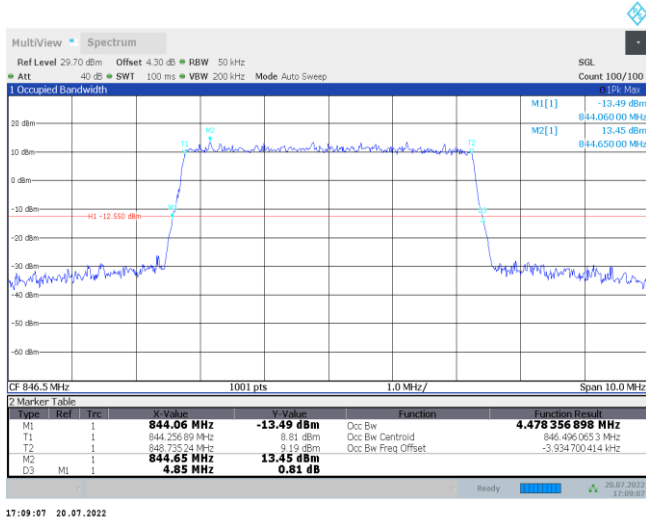


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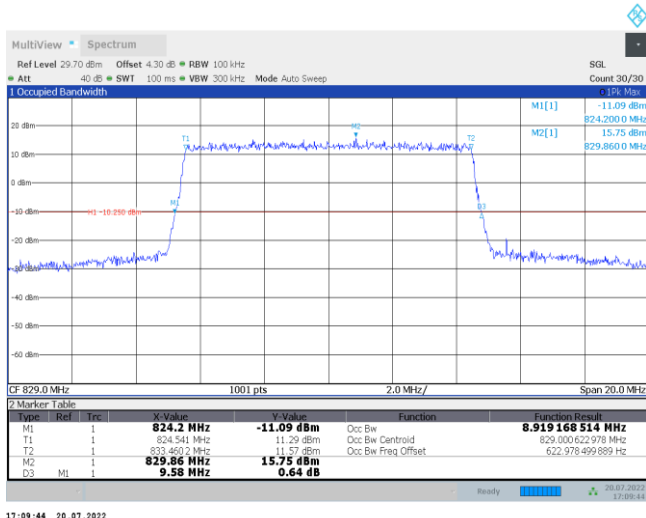
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Band5-5MHz-64QAM-20625-25RB#0



17:09:07 20.07.2022

Band5-10MHz-QPSK-20450-50RB#0

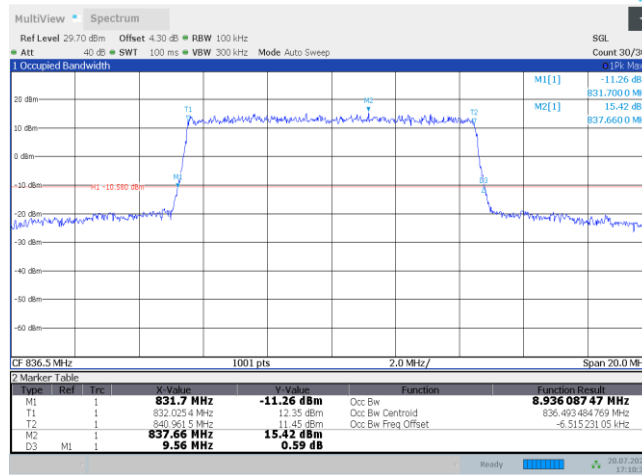


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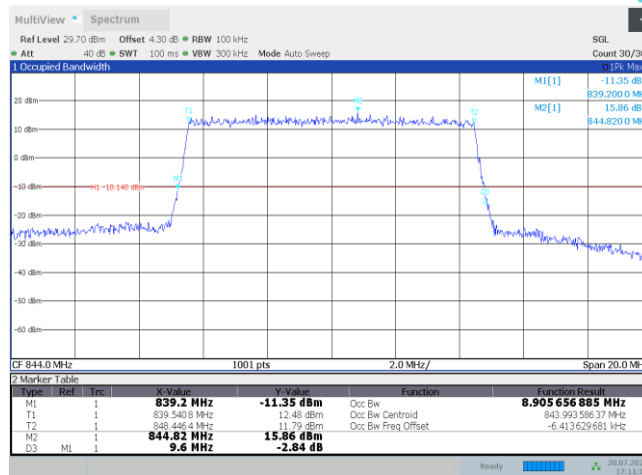
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Band5-10MHz-QPSK-20525-50RB#0



17:10:31 20.07.2022

Band5-10MHz-QPSK-20600-50RB#0



17:11:17 20.07.2022



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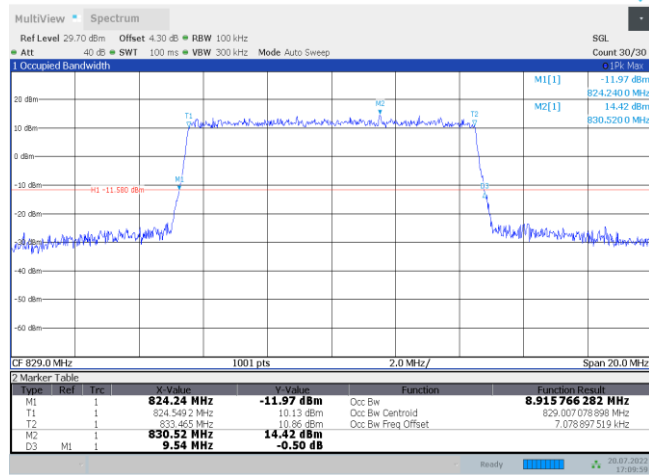
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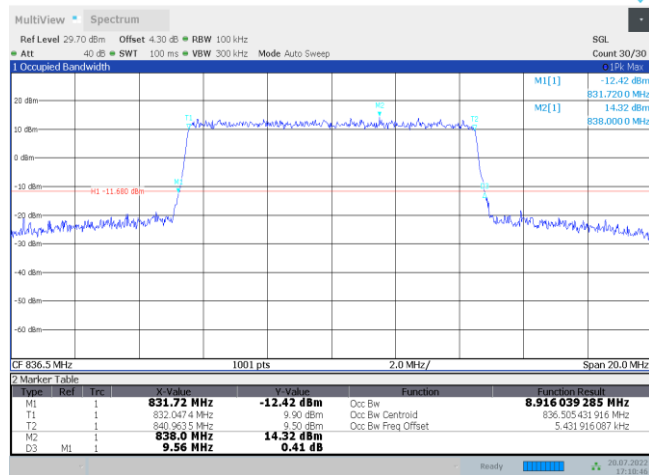


Band5-10MHz-16QAM-20450-50RB#0



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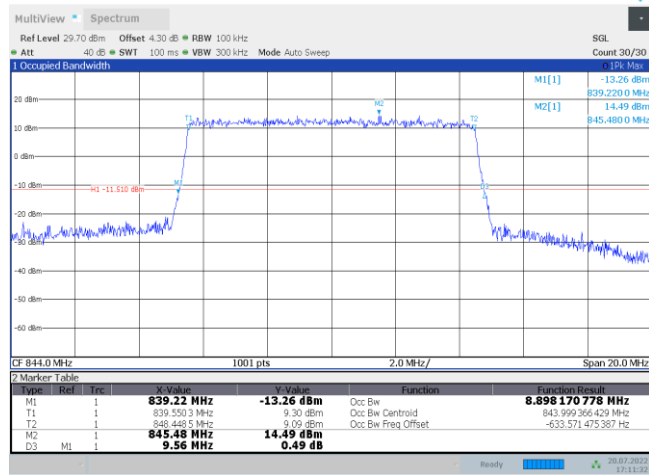
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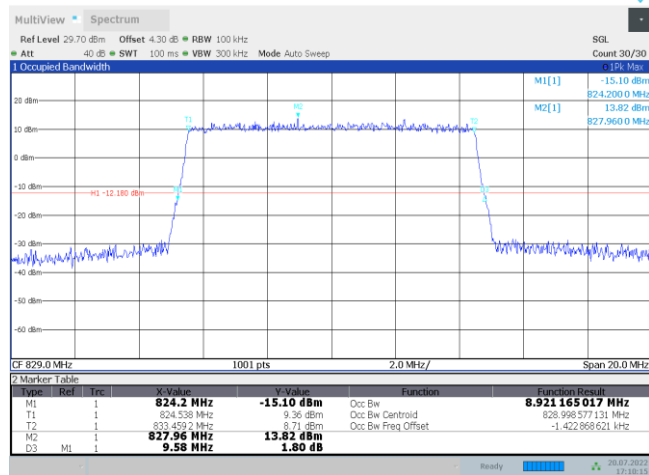
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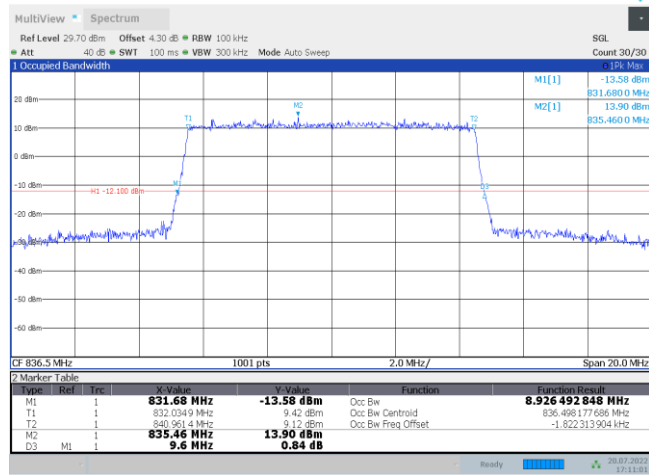
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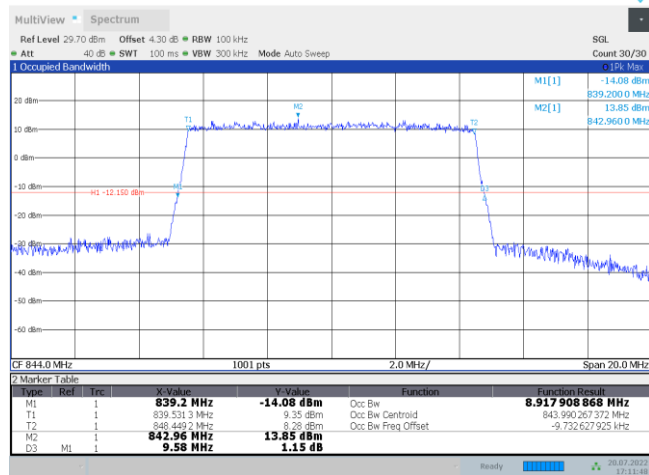
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Band5-10MHz-64QAM-20525-50RB#0



Band5-10MHz-64QAM-20600-50RB#0



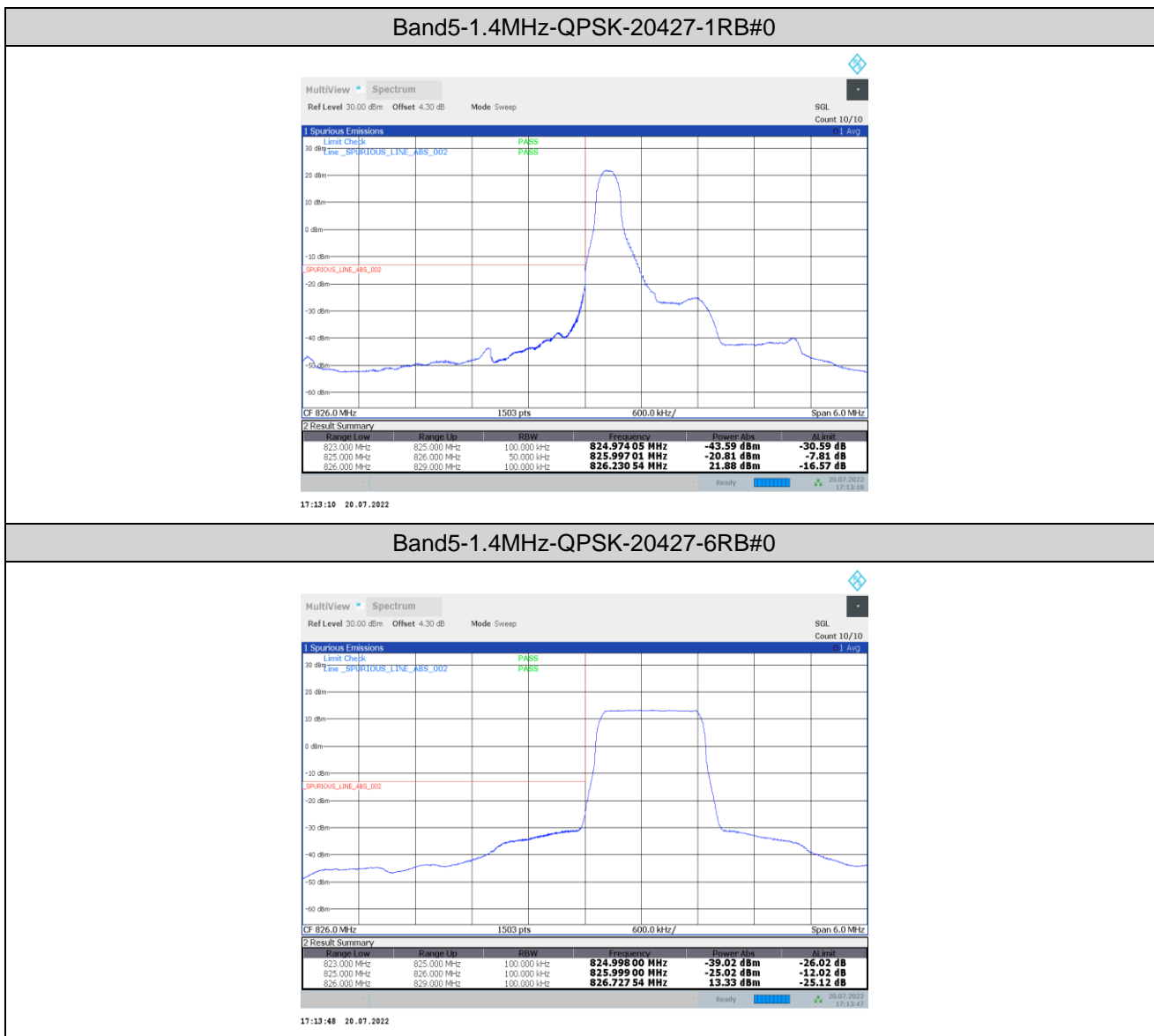
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### Band Edge

### Test Graphs

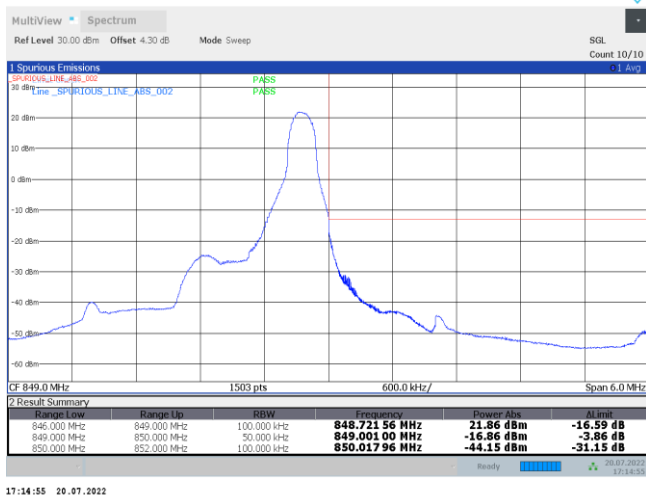


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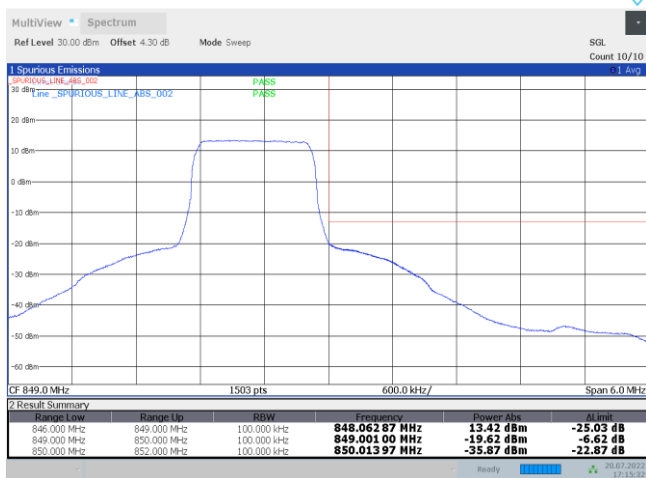
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Band5-1.4MHz-QPSK-20643-1RB#5



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Band5-1.4MHz-QPSK-20643-6RB#0

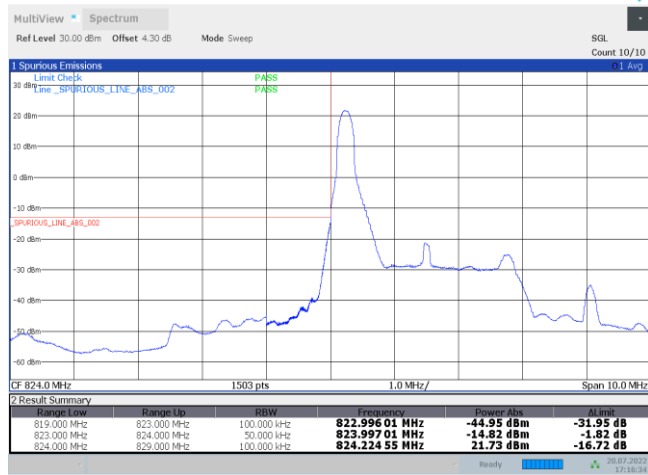


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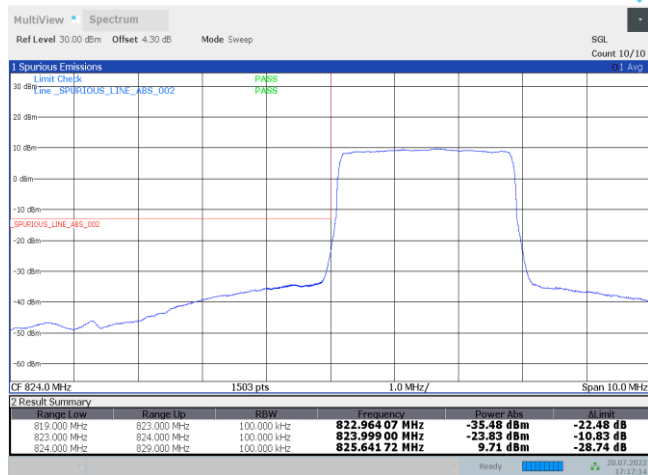
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Band5-3MHz-QPSK-20415-1RB#0



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Band5-3MHz-QPSK-20415-15RB#0

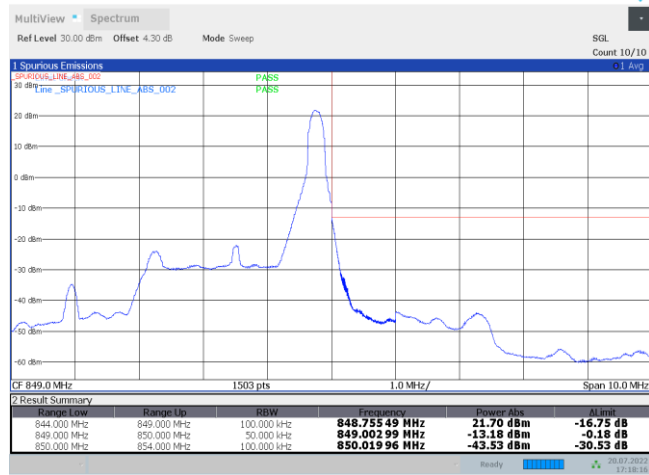


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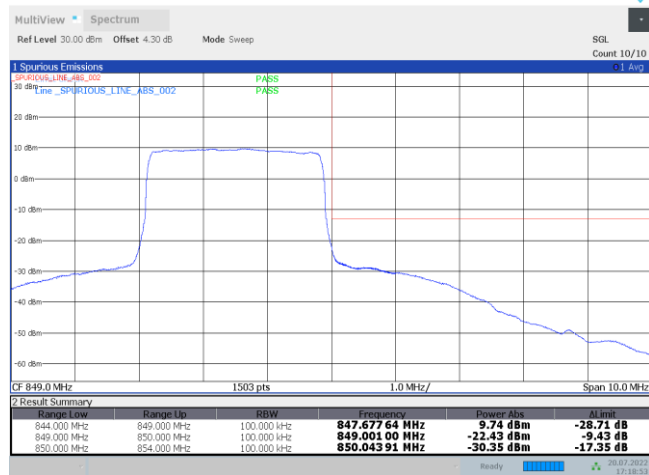
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Band5-3MHz-QPSK-20635-1RB#14



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Band5-3MHz-QPSK-20635-15RB#0



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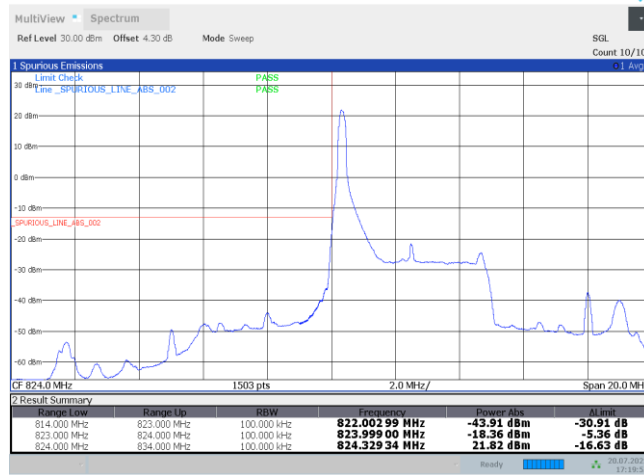
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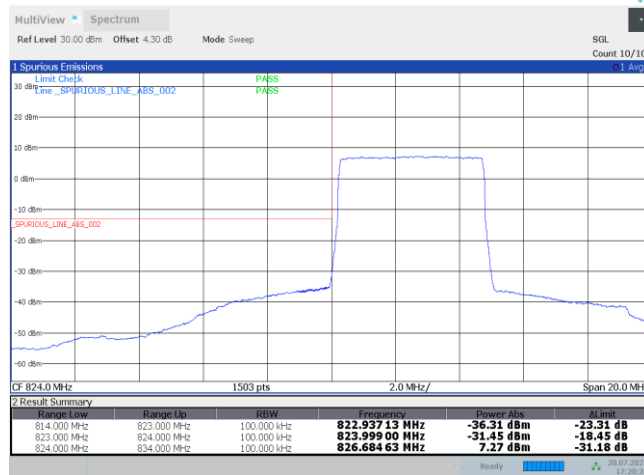
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Band5-5MHz-QPSK-20425-1RB#0



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Band5-5MHz-QPSK-20425-25RB#0



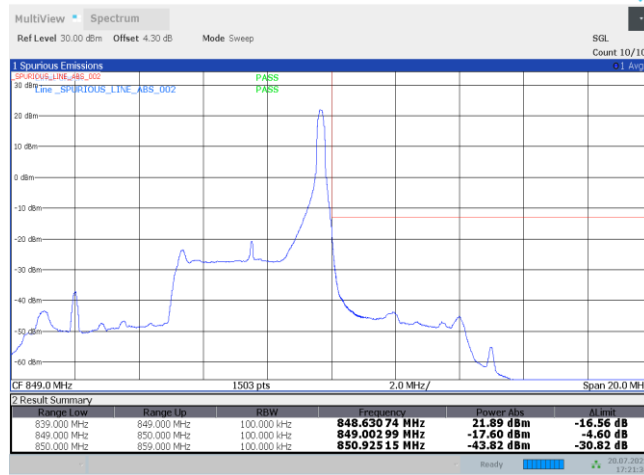
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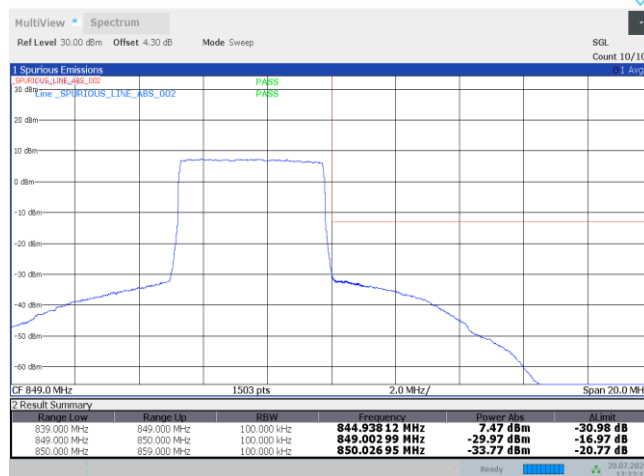


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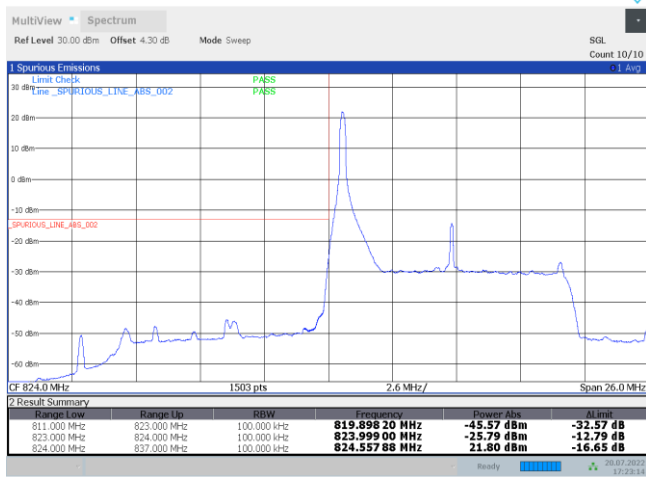
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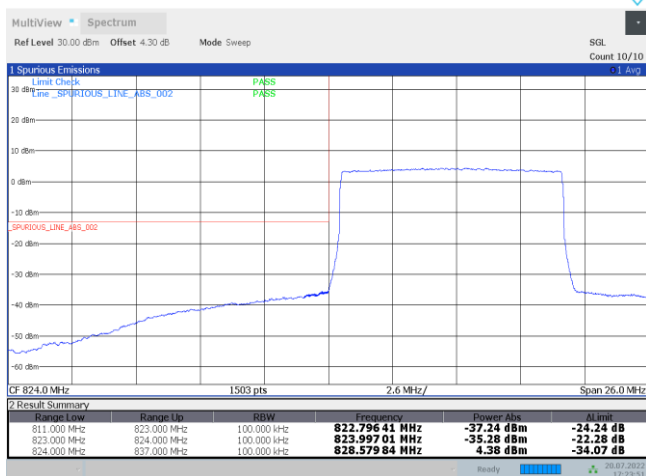
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Band5-10MHz-QPSK-20450-1RB#0



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Band5-10MHz-QPSK-20450-50RB#0

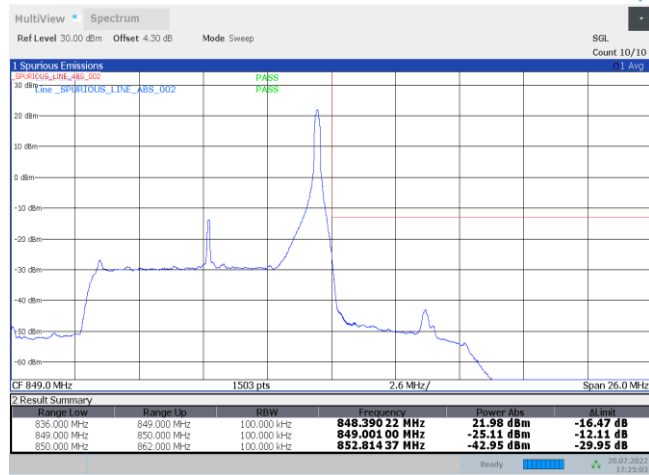


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Band5-10MHz-QPSK-20600-1RB#49



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Band5-10MHz-QPSK-20600-50RB#0



17:25:41 20.07.2022



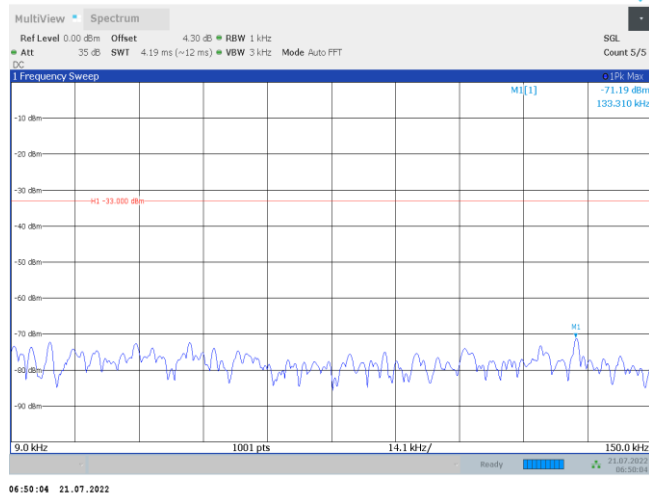
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## Conducted Spurious Emission

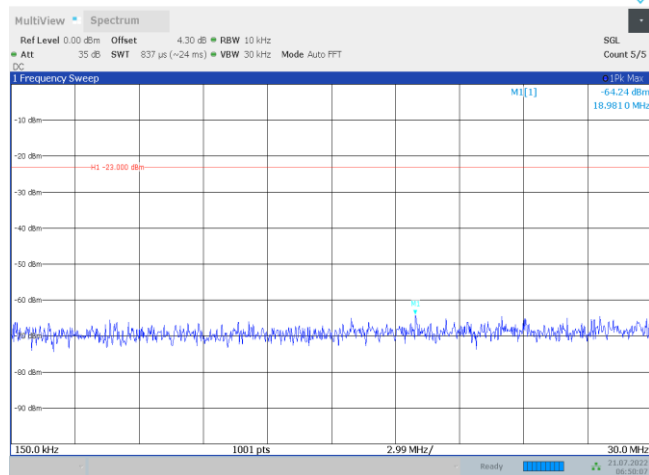
### Test Graphs

Band5-10MHz-QPSK-20450-1RB#0-Range1:0.009~0.15MHz



06:50:04 21.07.2022

Band5-10MHz-QPSK-20450-1RB#0-Range2:0.15~30MHz



06:50:07 21.07.2022



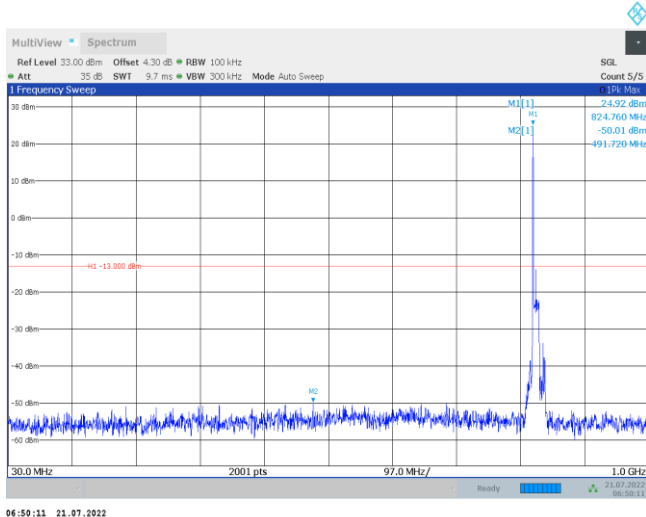
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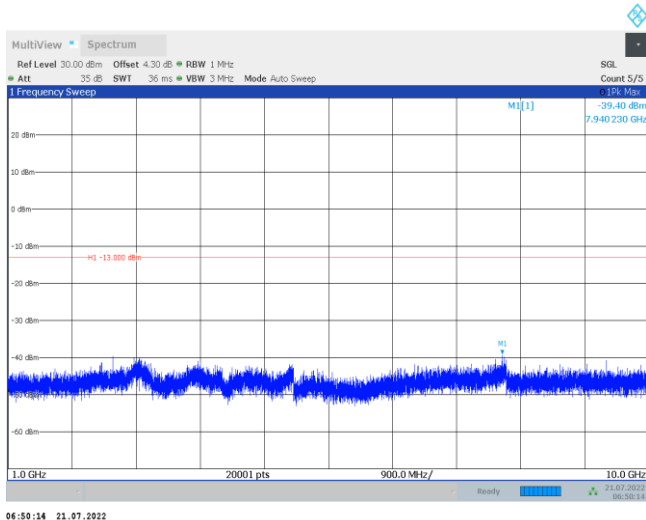
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Band5-10MHz-QPSK-20450-1RB#0-Range3:30~1000MHz

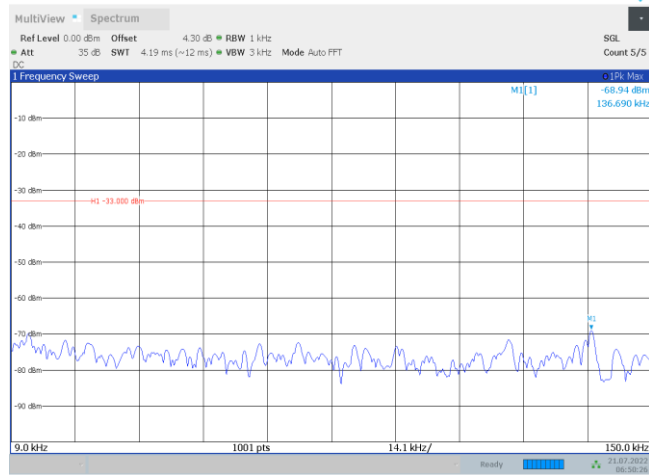


Band5-10MHz-QPSK-20450-1RB#0-Range4:1000~10000MHz



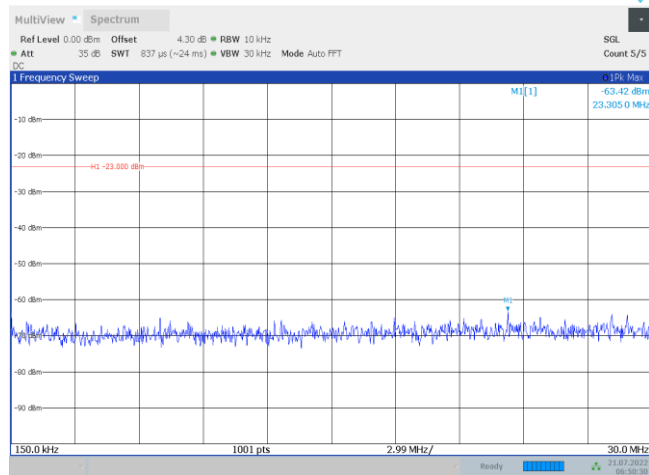
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Band5-10MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



06:50:27 21.07.2022

Band5-10MHz-QPSK-20525-1RB#0-Range2:0.15~30MHz



06:50:30 21.07.2022



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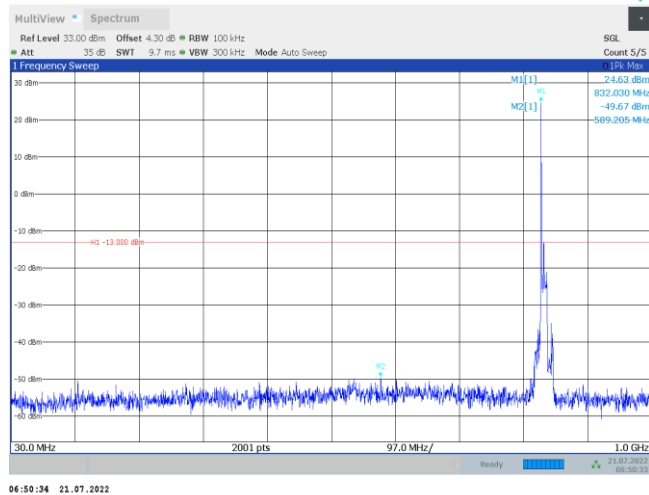
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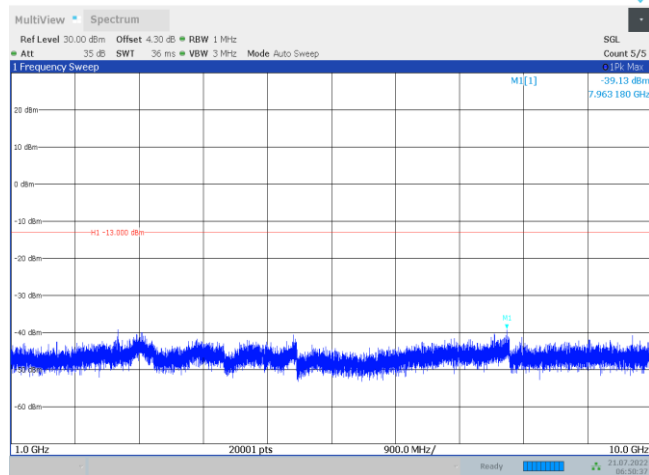
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Band5-10MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



06:50:34 21.07.2022

Band5-10MHz-QPSK-20525-1RB#0-Range4:1000~10000MHz



06:50:37 21.07.2022



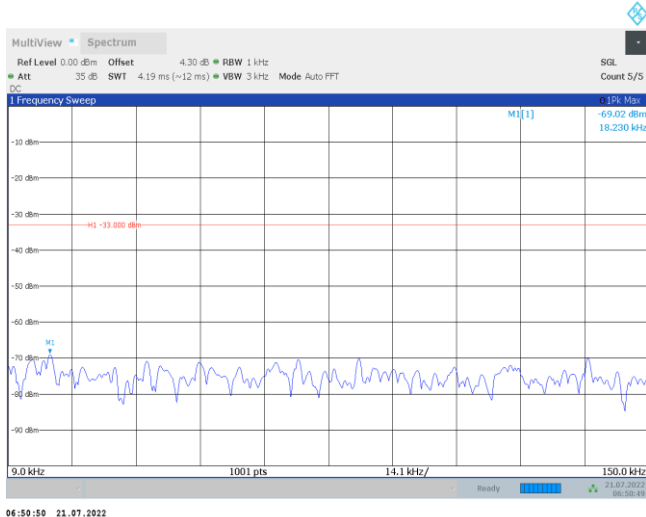
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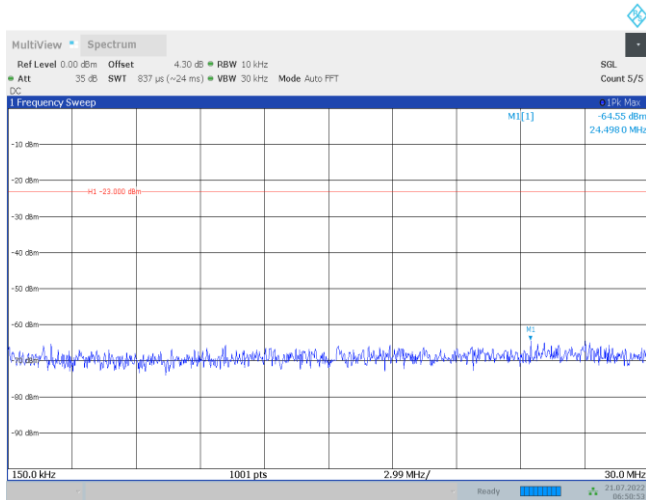
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Band5-10MHz-QPSK-20600-1RB#0-Range1:0.009~0.15MHz



06:50:50 21.07.2022

Band5-10MHz-QPSK-20600-1RB#0-Range2:0.15~30MHz



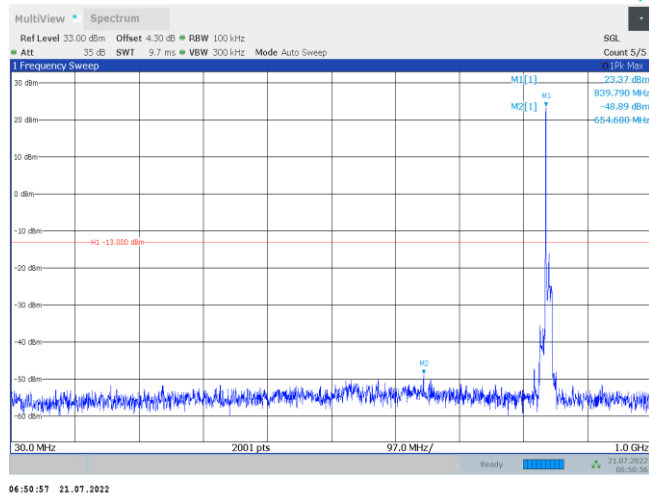
06:50:53 21.07.2022



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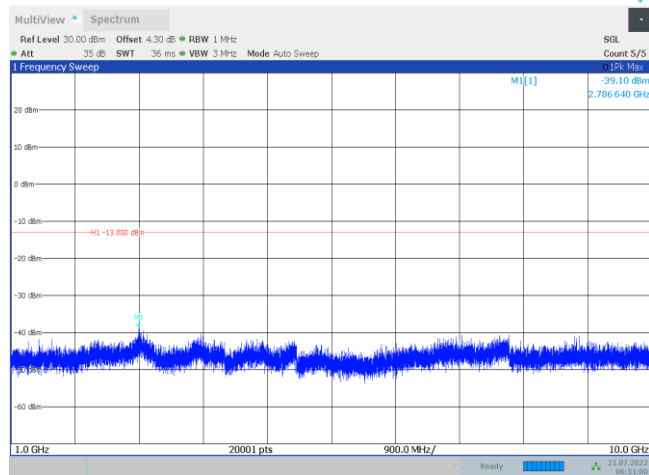


Band5-10MHz-QPSK-20600-1RB#0-Range3:30~1000MHz



06:50:57 21.07.2022

Band5-10MHz-QPSK-20600-1RB#0-Range4:1000~10000MHz



06:51:00 21.07.2022



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## Field Strength of Spurious Radiation

For Sample #1:

Test Band = LTE Band5\_ 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	1649.1800	57.08	-48.22	25.37	-61.03	-13.00	48.03	251	269	Horizontal
2	2473.7700	50.93	-47.32	27.69	-63.96	-13.00	50.96	236	202	Horizontal
3	3298.3600	50.85	-46.68	29.56	-61.53	-13.00	48.53	214	332	Horizontal
4	4122.9500	50.68	-45.91	30.99	-59.51	-13.00	46.51	185	68	Horizontal
5	4947.5400	49.97	-45.69	32.73	-58.25	-13.00	45.25	179	282	Horizontal
6	5772.1300	49.68	-44.64	33.65	-56.57	-13.00	43.57	145	269	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	1649.1800	63.32	-48.22	25.37	-54.79	-13.00	41.79	211	3	Vertical
2	2473.7700	54.15	-47.32	27.69	-60.74	-13.00	47.74	230	12	Vertical
3	3298.3600	51.22	-46.68	29.56	-61.16	-13.00	48.16	269	351	Vertical
4	4122.9500	50.12	-45.91	30.99	-60.07	-13.00	47.07	148	3	Vertical
5	4947.5400	50.43	-45.69	32.73	-57.79	-13.00	44.79	191	170	Vertical
6	5772.1300	49.02	-44.64	33.65	-57.23	-13.00	44.23	173	144	Vertical



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Test Band = LTE Band5\_ 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	1664.1800	56.91	-48.20	25.38	-61.18	-13.00	48.18	215	309	Horizontal
2	2496.2700	52.45	-47.28	27.76	-62.33	-13.00	49.33	144	42	Horizontal
3	3328.3600	51.79	-46.64	29.52	-60.59	-13.00	47.59	185	42	Horizontal
4	4160.4500	51.84	-45.94	31.04	-58.32	-13.00	45.32	169	0	Horizontal
5	4992.5400	51.19	-45.79	32.86	-57.00	-13.00	44.00	199	0	Horizontal
6	5824.6300	48.42	-44.74	33.80	-57.78	-13.00	44.78	237	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	1664.1800	66.49	-48.20	25.38	-51.60	-13.00	38.60	177	359	Vertical
2	2496.2700	53.72	-47.28	27.76	-61.06	-13.00	48.06	185	360	Vertical
3	3328.3600	52.19	-46.64	29.52	-60.19	-13.00	47.19	194	120	Vertical
4	4160.4500	49.28	-45.94	31.04	-60.88	-13.00	47.88	173	359	Vertical
5	4992.5400	49.40	-45.79	32.86	-58.79	-13.00	45.79	126	305	Vertical
6	5824.6300	48.19	-44.74	33.80	-58.01	-13.00	45.01	143	79	Vertical



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Test Band = LTE Band5\_ 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	1679.1800	59.24	-48.18	25.38	-58.82	-13.00	45.82	145	293	Horizontal
2	2518.7700	54.52	-47.21	27.83	-60.11	-13.00	47.11	155	41	Horizontal
3	3358.3600	51.68	-46.60	29.48	-60.70	-13.00	47.70	128	8	Horizontal
4	4197.9500	54.20	-45.96	31.10	-55.92	-13.00	42.92	194	82	Horizontal
5	5037.5400	48.99	-45.65	32.90	-59.02	-13.00	46.02	172	174	Horizontal
6	5887.1300	49.61	-44.93	33.92	-56.66	-13.00	43.66	233	356	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	1679.1800	70.39	-48.18	25.38	-47.67	-13.00	34.67	174	3	Vertical
2	2518.7700	53.06	-47.21	27.83	-61.57	-13.00	48.57	158	341	Vertical
3	3358.3600	50.93	-46.60	29.48	-61.45	-13.00	48.45	159	209	Vertical
4	4197.9500	49.62	-45.96	31.10	-60.50	-13.00	47.50	194	359	Vertical
5	5037.5400	48.80	-45.65	32.90	-59.21	-13.00	46.21	126	330	Vertical
6	5887.1300	49.10	-44.93	33.92	-57.17	-13.00	44.17	111	3	Vertical

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading Level(dBμV) + AF(dB/m) + Factor(dB):

Factor = Cable Factor(dB) - Preamplifier gain(dB)

AF = Antenna Factor(dB/m)

Margin = Limit(dBm) – Level(dBm)

dBm = dBμV - 95.26



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## Frequency Stability

### Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-1.80	-0.002152	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-4.80	-0.005738	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-3.80	-0.004543	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	0.10	0.000120	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-5.30	-0.006336	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	-2.70	-0.003228	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-2.20	-0.002630	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-3.40	-0.004065	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-1.80	-0.002152	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	0.70	0.000837	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-6.20	-0.007412	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	0.00	0.000000	±2.5	PASS

---End of Attachment---



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