

# 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	22.67	23.08	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	22.79	23.2	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	22.75	23.16	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	21.83	22.24	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	22.65	23.06	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	22.74	23.15	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	22.68	23.09	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	21.77	22.18	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	22.62	23.03	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	22.74	23.15	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	22.7	23.11	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	21.78	22.19	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	21.93	22.34	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.18	22.59	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.12	22.53	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	20.86	21.27	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	21.97	22.38	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.18	22.59	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	21.96	22.37	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	20.87	21.28	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	21.96	22.37	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.14	22.55	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	21.96	22.37	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	20.84	21.25	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	21	21.41	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#2	21.06	21.47	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#5	21	21.41	38.45	PASS



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Band5	1.4MHz	64QAM	20407	6RB#0	19.81	20.22	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	20.93	21.34	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#2	21.01	21.42	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	20.98	21.39	38.45	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	19.76	20.17	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	20.91	21.32	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#2	20.95	21.36	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	20.86	21.27	38.45	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	19.77	20.18	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	22.76	23.17	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	22.87	23.28	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	22.75	23.16	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	21.88	22.29	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	22.78	23.19	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	22.84	23.25	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	22.77	23.18	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	21.84	22.25	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	22.72	23.13	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	22.82	23.23	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	22.71	23.12	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	21.87	22.28	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.13	22.54	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.2	22.61	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.06	22.47	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	20.95	21.36	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	21.99	22.4	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.15	22.56	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.18	22.59	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	20.85	21.26	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.05	22.46	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.15	22.56	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.11	22.52	38.45	PASS



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Band5	3MHz	16QAM	20635	15RB#0	20.83	21.24	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#0	20.98	21.39	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#8	21.13	21.54	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#14	21.04	21.45	38.45	PASS
Band5	3MHz	64QAM	20415	15RB#0	19.94	20.35	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#0	21.08	21.49	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#8	21.05	21.46	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#14	21.08	21.49	38.45	PASS
Band5	3MHz	64QAM	20525	15RB#0	19.89	20.3	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#0	20.97	21.38	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#8	21.03	21.44	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#14	20.95	21.36	38.45	PASS
Band5	3MHz	64QAM	20635	15RB#0	19.93	20.34	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	22.76	23.17	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	22.73	23.14	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	22.78	23.19	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	21.87	22.28	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	22.72	23.13	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	22.79	23.2	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	22.71	23.12	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	21.83	22.24	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	22.67	23.08	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	22.83	23.24	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	22.72	23.13	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	21.82	22.23	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	22.13	22.54	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.12	22.53	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.04	22.45	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	20.93	21.34	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	22	22.41	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.26	22.67	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.05	22.46	38.45	PASS



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Band5	5MHz	16QAM	20525	25RB#0	20.95	21.36	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.03	22.44	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.1	22.51	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.07	22.48	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	20.81	21.22	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#0	21.1	21.51	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#12	21	21.41	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#24	21.14	21.55	38.45	PASS
Band5	5MHz	64QAM	20425	25RB#0	19.93	20.34	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#0	21	21.41	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#12	21.08	21.49	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#24	20.98	21.39	38.45	PASS
Band5	5MHz	64QAM	20525	25RB#0	19.94	20.35	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#0	21.04	21.45	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#12	20.9	21.31	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#24	20.98	21.39	38.45	PASS
Band5	5MHz	64QAM	20625	25RB#0	19.85	20.26	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	22.87	23.28	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	22.86	23.27	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	22.73	23.14	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	21.84	22.25	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	22.78	23.19	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	22.76	23.17	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	22.72	23.13	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	21.79	22.2	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	22.84	23.25	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	22.76	23.17	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	22.73	23.14	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	21.74	22.15	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.18	22.59	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.23	22.64	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.13	22.54	38.45	PASS



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t (86-512) 62992980 sgs.china@sgs.com





Band5	10MHz	16QAM	20450	50RB#0	20.82	21.23	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.13	22.54	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.23	22.64	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.13	22.54	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	20.7	21.11	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.21	22.62	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.17	22.58	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.06	22.47	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	20.65	21.06	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#0	21.03	21.44	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#24	20.99	21.4	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#49	21.01	21.42	38.45	PASS
Band5	10MHz	64QAM	20450	50RB#0	19.84	20.25	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#0	21.03	21.44	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#24	21.12	21.53	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#49	21.13	21.54	38.45	PASS
Band5	10MHz	64QAM	20525	50RB#0	19.86	20.27	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#0	20.92	21.33	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#24	20.97	21.38	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#49	20.96	21.37	38.45	PASS
Band5	10MHz	64QAM	20600	50RB#0	19.79	20.2	38.45	PASS



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## Peak-to-Average Ratio(CCDF)

### Test Result

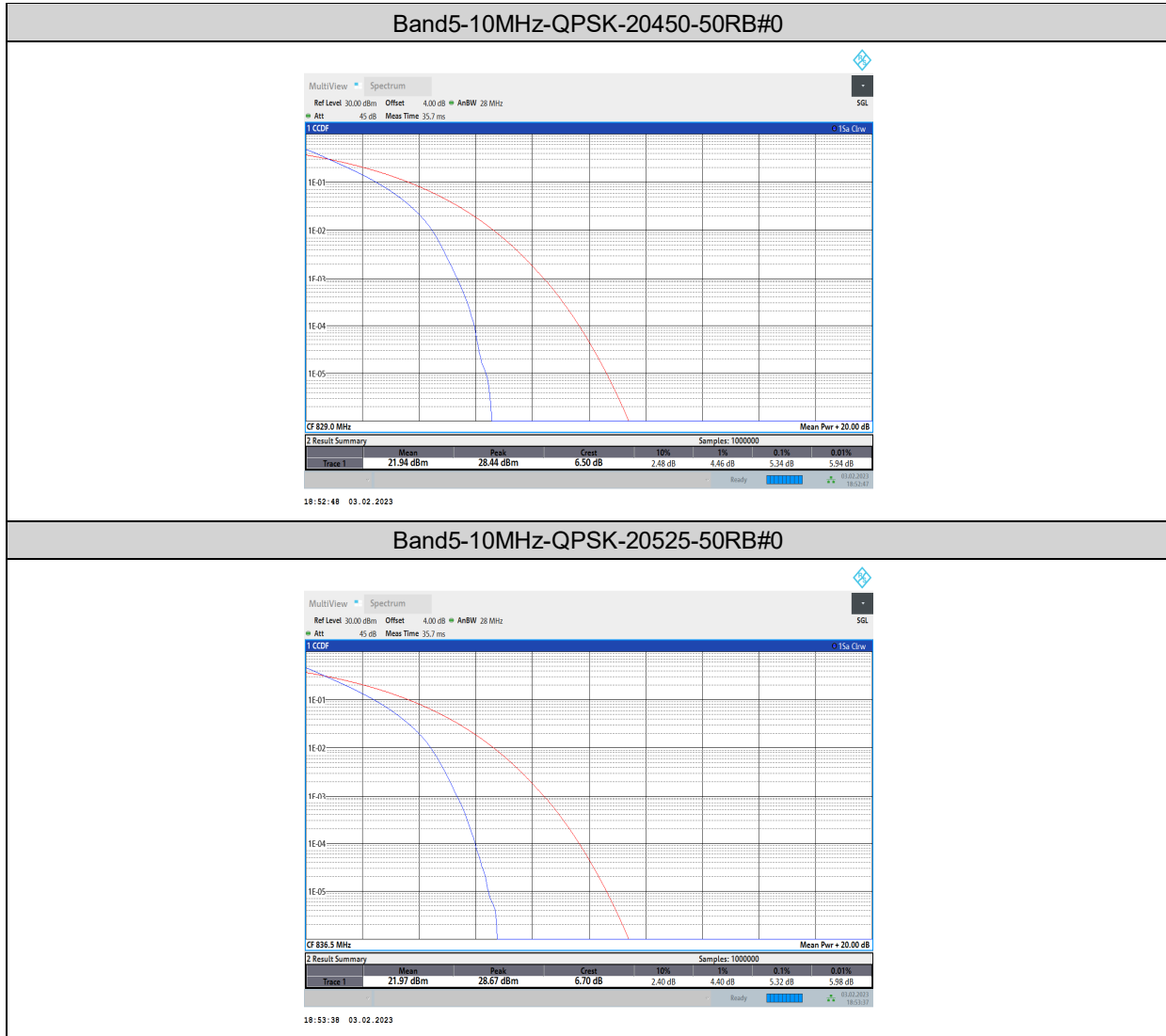
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	5.34	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.32	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.18	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.08	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.08	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.08	13	PASS
Band5	10MHz	64QAM	20450	50RB#0	6.58	13	PASS
Band5	10MHz	64QAM	20525	50RB#0	6.54	13	PASS
Band5	10MHz	64QAM	20600	50RB#0	6.42	13	PASS



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Test Graphs



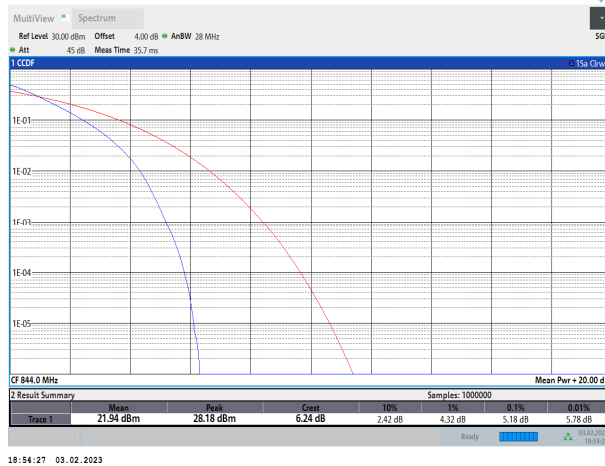
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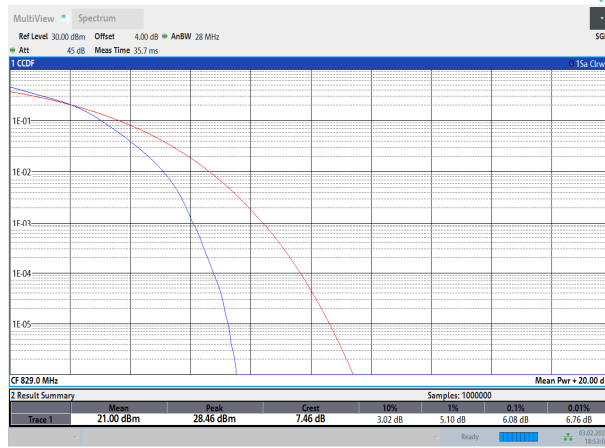


Band5-10MHz-QPSK-20600-50RB#0



18:54:27 03.02.2023

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



18:53:05 03.02.2023

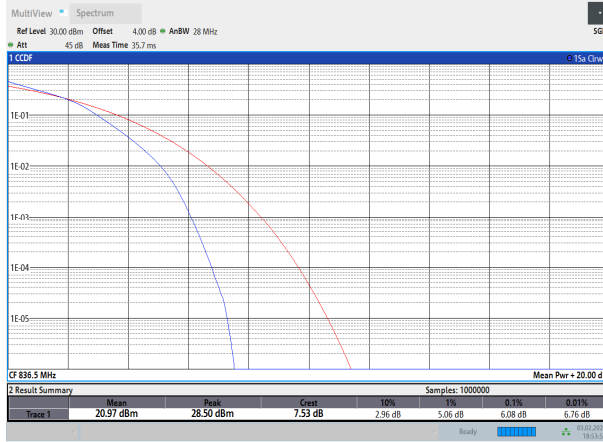


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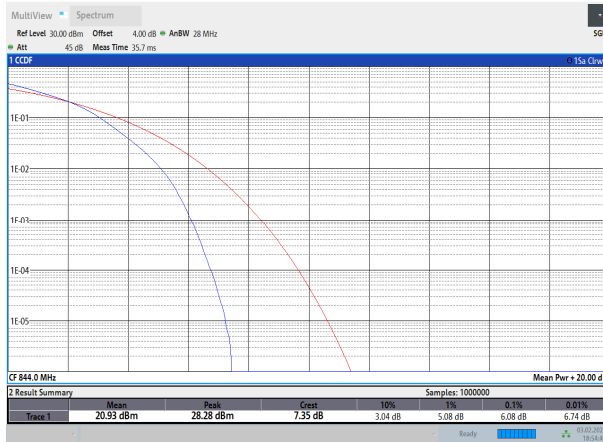
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Band5-10MHz-16QAM-20525-50RB#0



18:53:54 03.02.2023

Band5-10MHz-16QAM-20600-50RB#0



18:54:43 03.02.2023

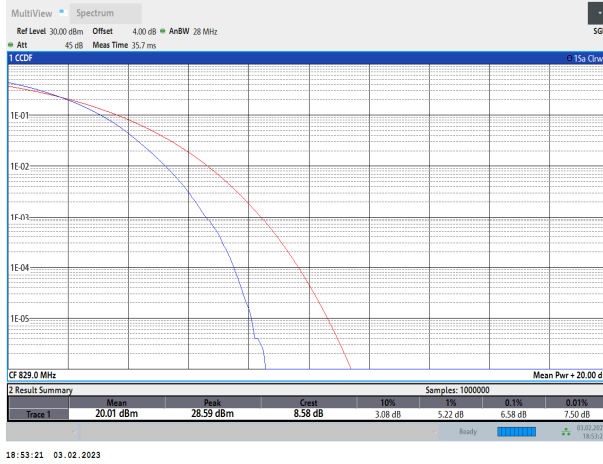


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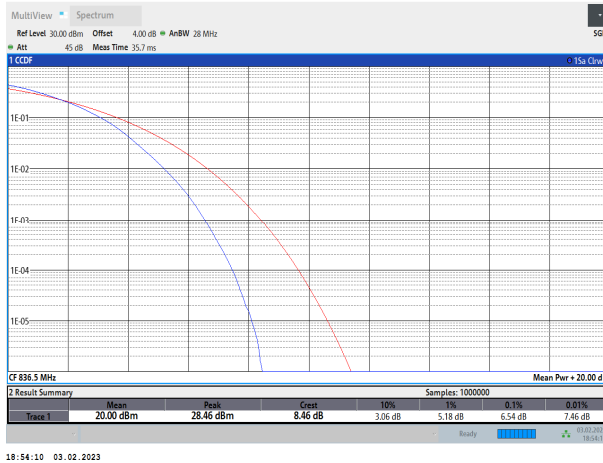
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Band5-10MHz-64QAM-20450-50RB#0



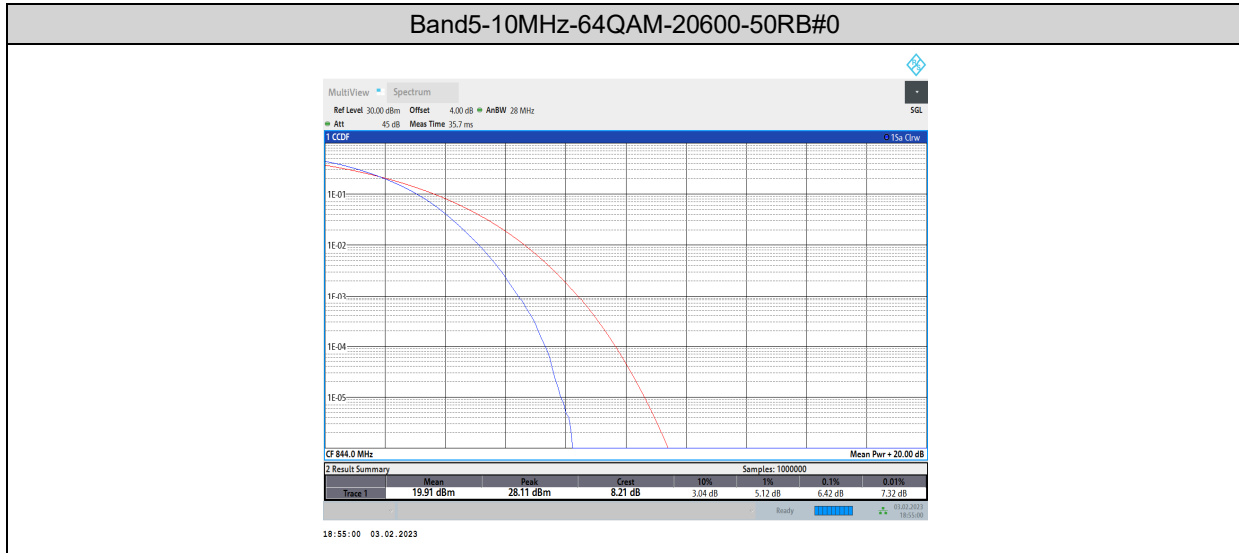
Band5-10MHz-64QAM-20525-50RB#0



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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	1.084	1.23	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.084	1.23	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.084	1.23	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.091	1.24	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.092	1.25	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.092	1.24	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	1.09	1.24	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	1.09	1.24	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	1.09	1.24	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.694	2.98	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.696	2.95	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.691	2.98	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.688	2.98	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.688	2.98	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.688	2.99	PASS
Band5	3MHz	64QAM	20415	15RB#0	2.688	2.97	PASS
Band5	3MHz	64QAM	20525	15RB#0	2.686	2.96	PASS
Band5	3MHz	64QAM	20635	15RB#0	2.688	2.96	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.475	4.85	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.468	4.88	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.467	4.88	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.468	4.89	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.468	4.89	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.459	4.90	PASS
Band5	5MHz	64QAM	20425	25RB#0	4.479	4.90	PASS
Band5	5MHz	64QAM	20525	25RB#0	4.473	4.90	PASS
Band5	5MHz	64QAM	20625	25RB#0	4.467	4.88	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.928	9.62	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.922	9.66	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.898	9.64	PASS



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Report No.: SEWA2211000080RG01

Rev.: 01

Page: 14 of 50

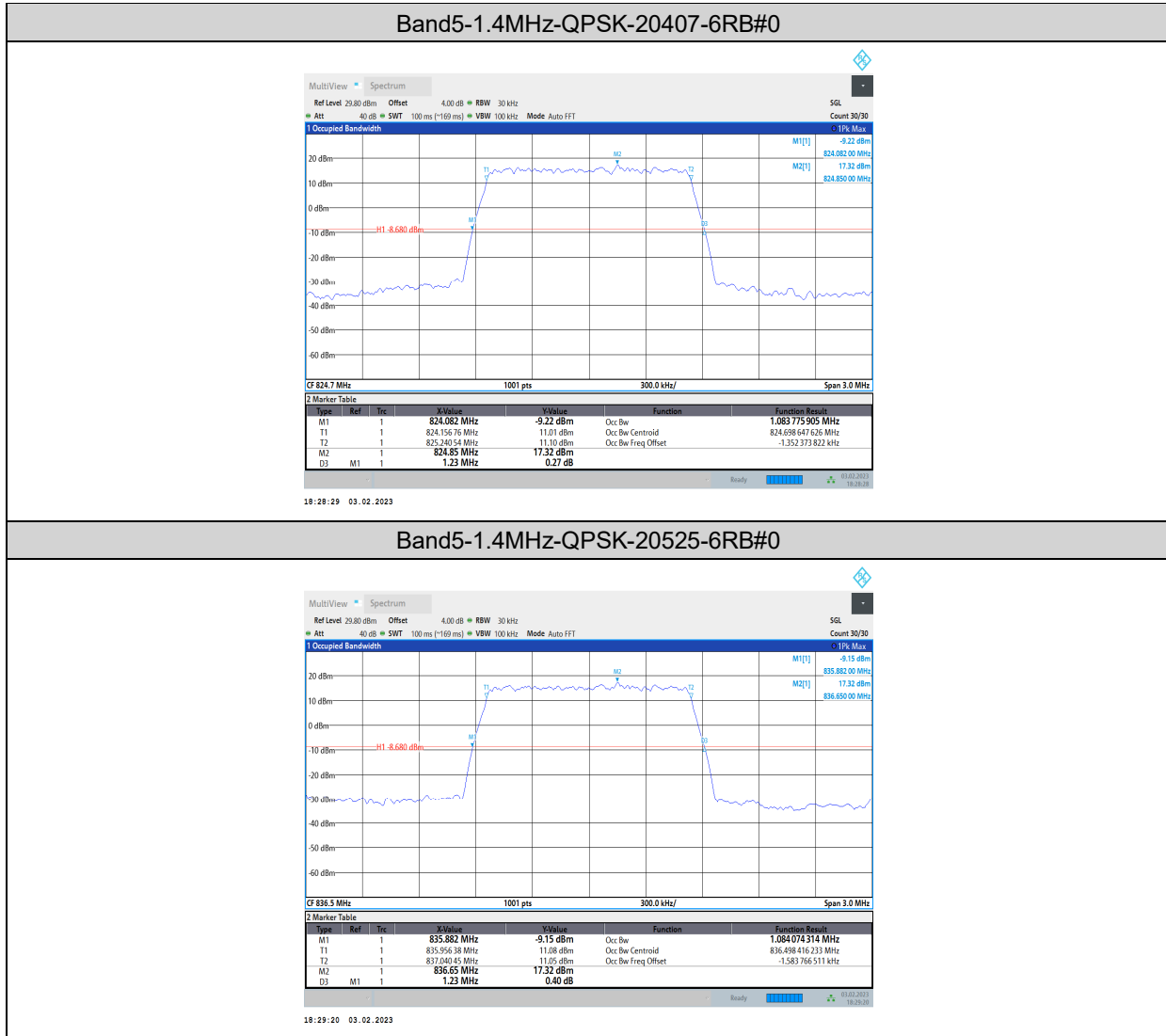
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Band5	10MHz	16QAM	20600	50RB#0	8.887	9.62	PASS
Band5	10MHz	64QAM	20450	50RB#0	8.916	9.64	PASS
Band5	10MHz	64QAM	20525	50RB#0	8.926	9.60	PASS
Band5	10MHz	64QAM	20600	50RB#0	8.91	9.56	PASS



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Test Graphs

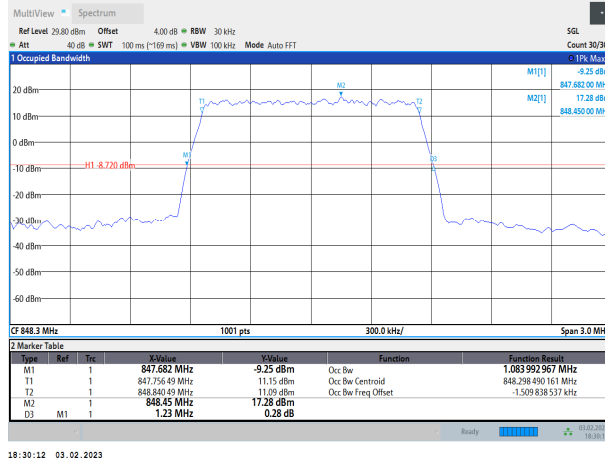


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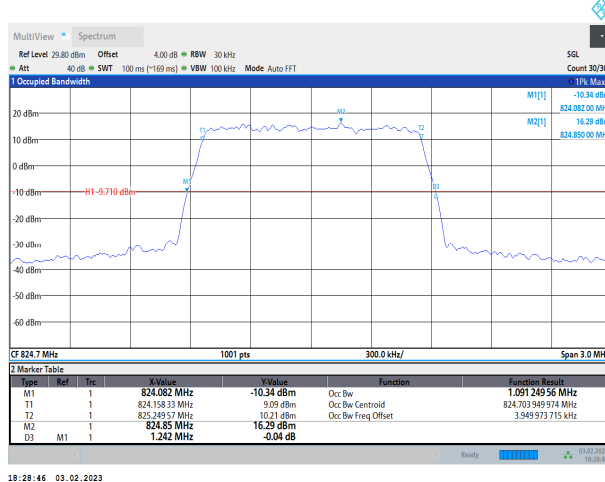
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Band5-1.4MHz-QPSK-20643-6RB#0



Band5-1.4MHz-16QAM-20407-6RB#0

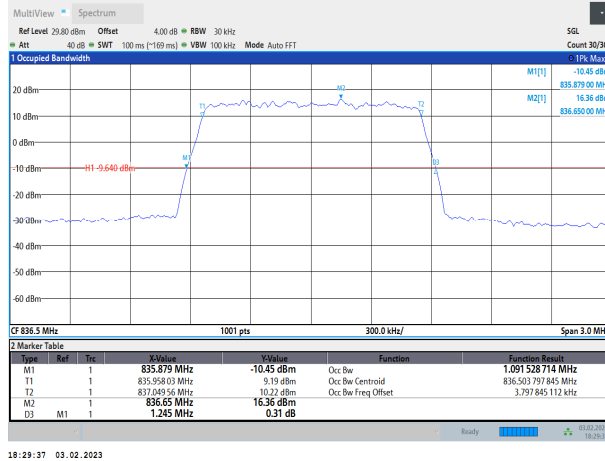


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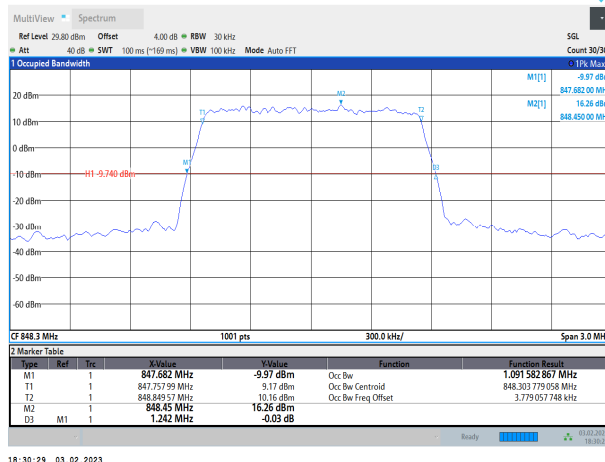
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Band5-1.4MHz-16QAM-20525-6RB#0



18:29:37 03.02.2023

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



18:30:29 03.02.2023

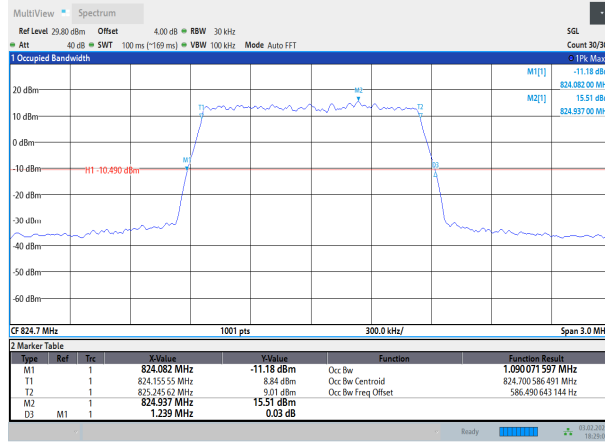


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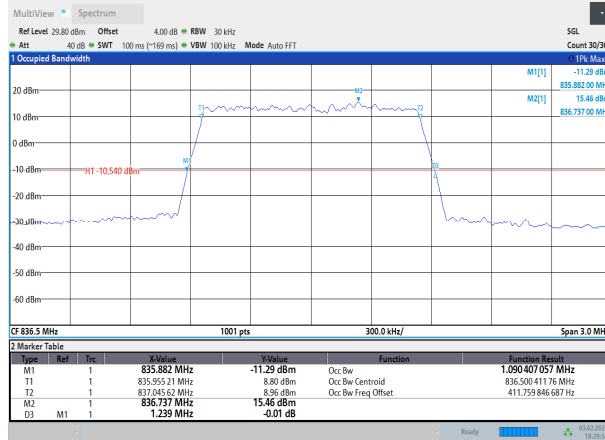
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18:29:03 03.02.2023

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



18:29:54 03.02.2023



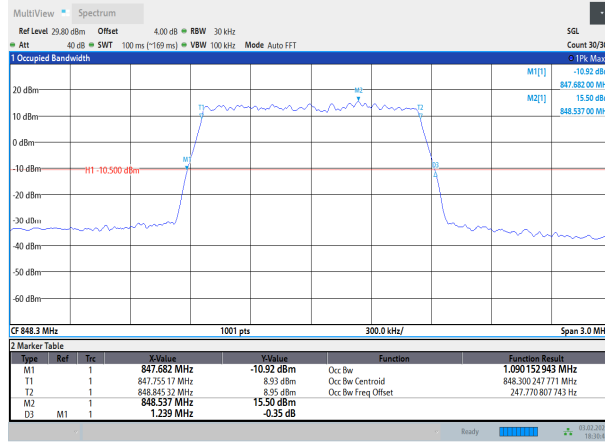
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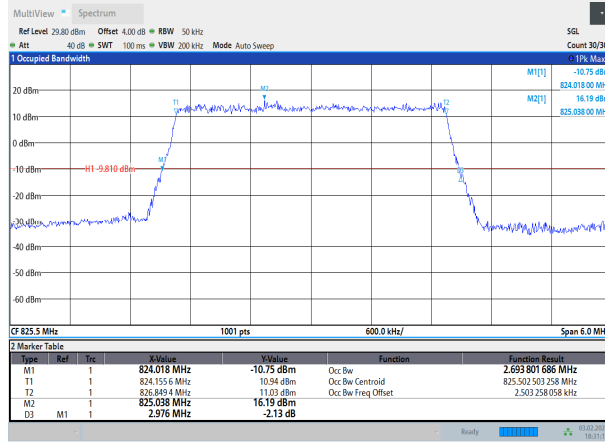


Band5-1.4MHz-64QAM-20643-6RB#0



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



18:31:17 03.02.2023

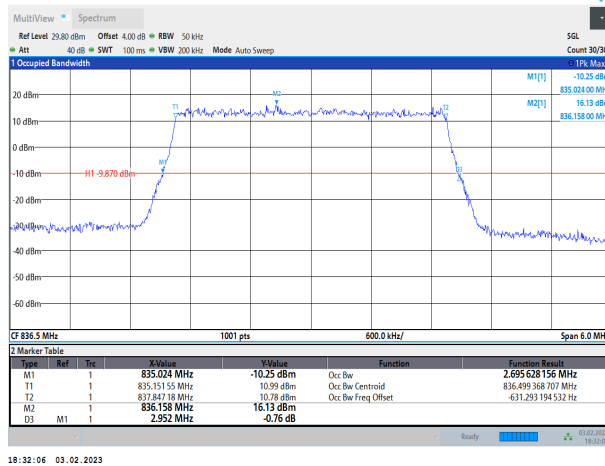


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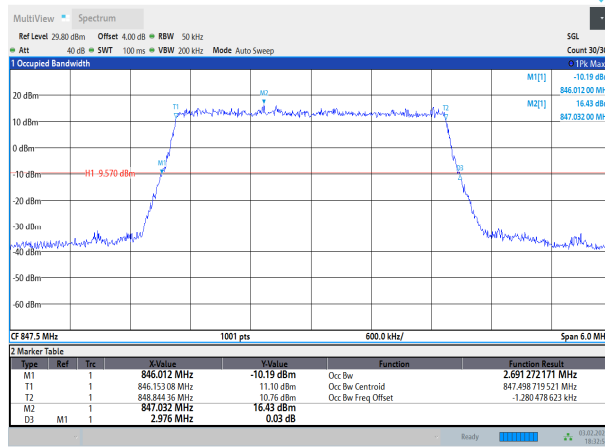
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Band5-3MHz-QPSK-20525-15RB#0



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



18:32:55 03.02.2023

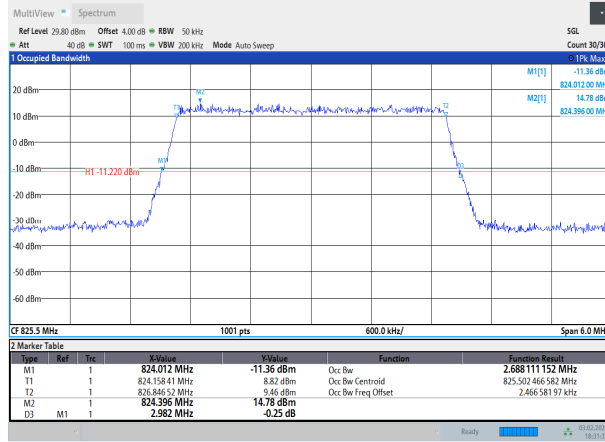


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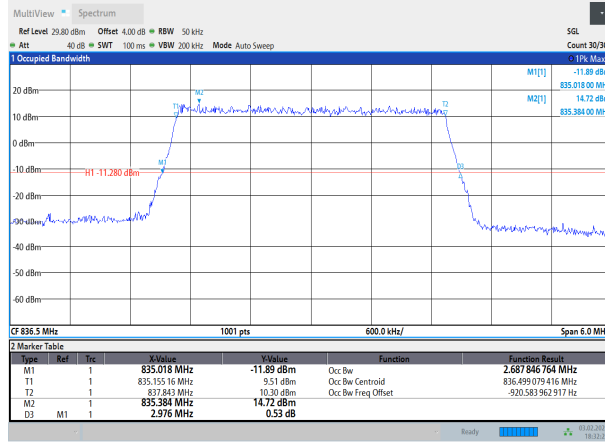
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Band5-3MHz-16QAM-20415-15RB#0



18:31:33 03.02.2023

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



18:32:22 03.02.2023

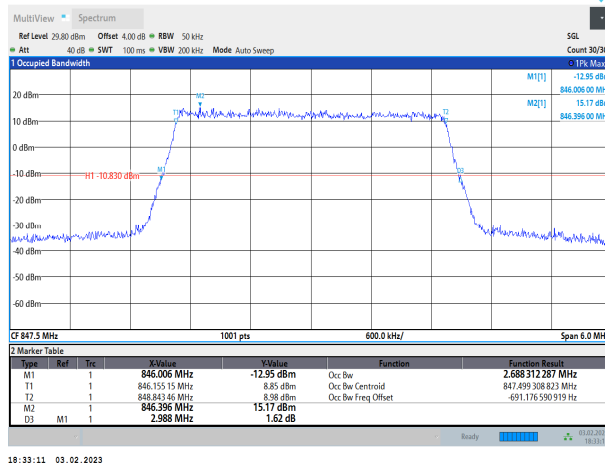


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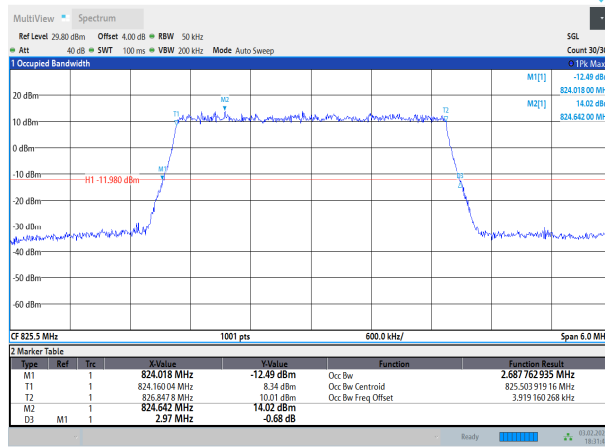
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Band5-3MHz-16QAM-20635-15RB#0



18:39:11 03.02.2023

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



18:31:50 03.02.2023

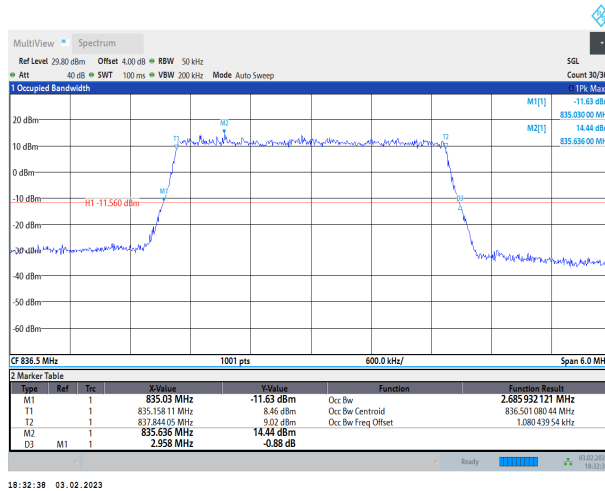


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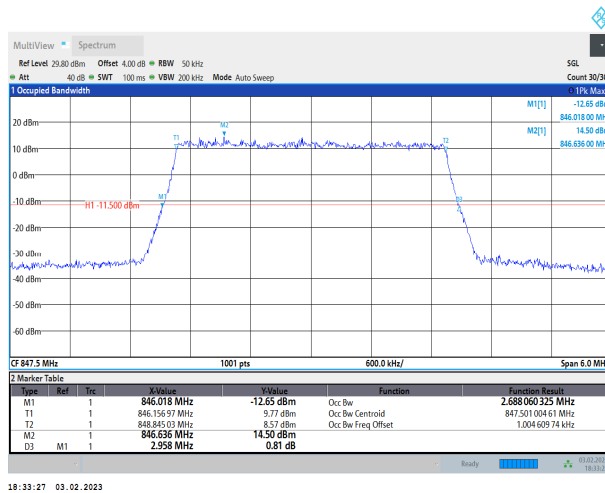
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Band5-3MHz-64QAM-20525-15RB#0



Band5-3MHz-64QAM-20635-15RB#0



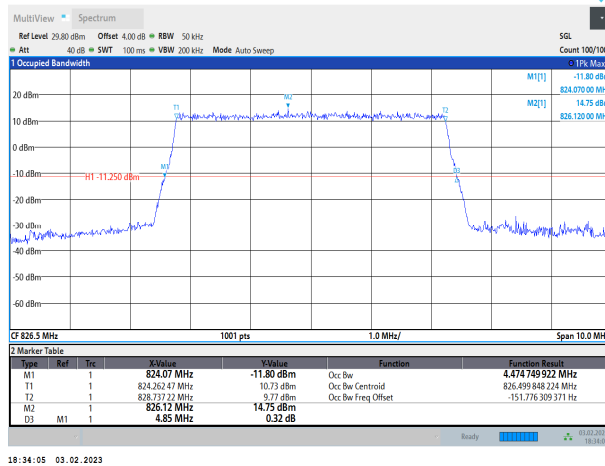
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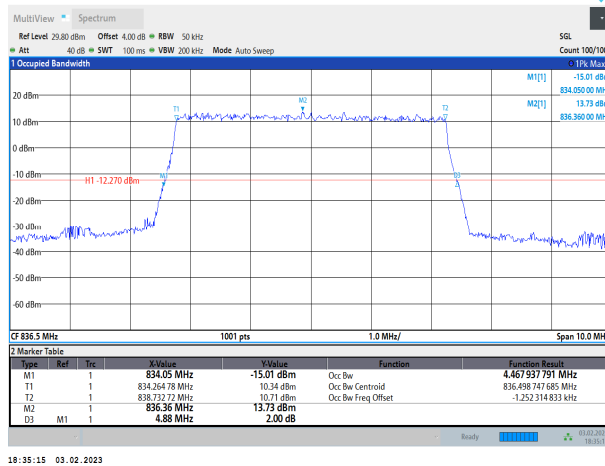
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Band5-5MHz-QPSK-20425-25RB#0



Band5-5MHz-QPSK-20525-25RB#0

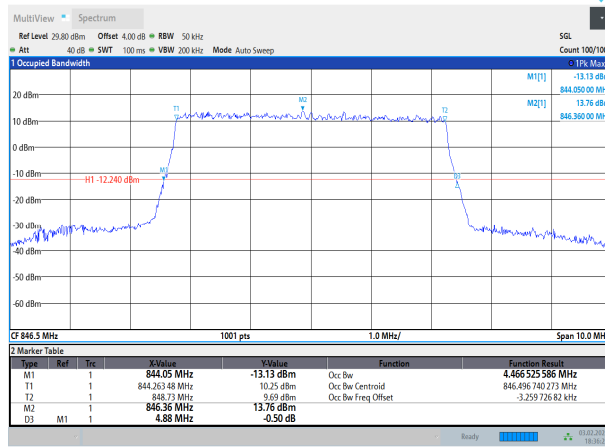


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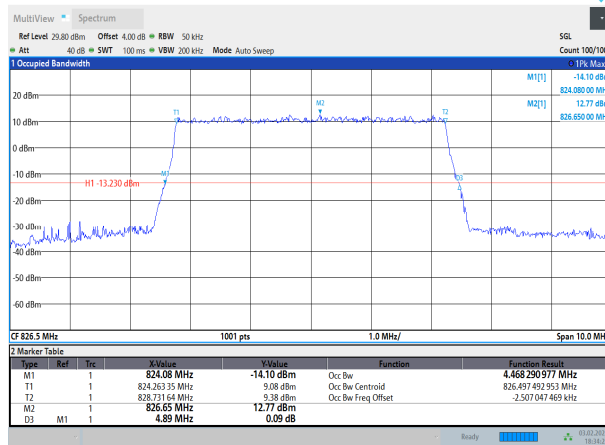
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Band5-5MHz-QPSK-20625-25RB#0



18:36:24 03.02.2023

Band5-5MHz-16QAM-20425-25RB#0



18:34:28 03.02.2023

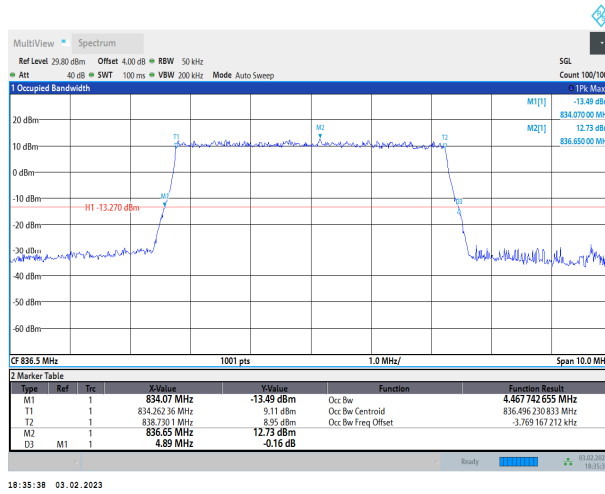


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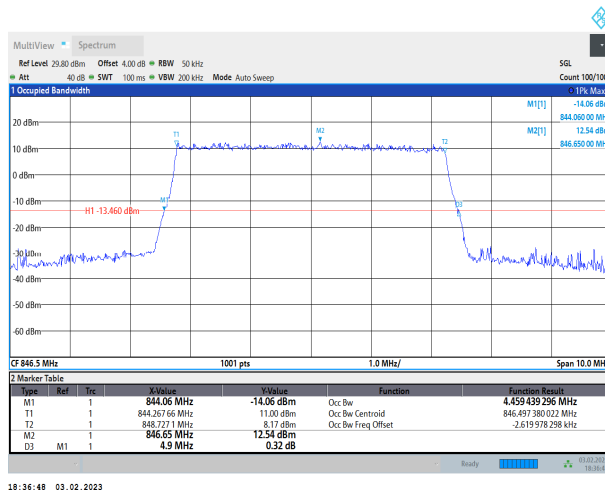
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Band5-5MHz-16QAM-20525-25RB#0



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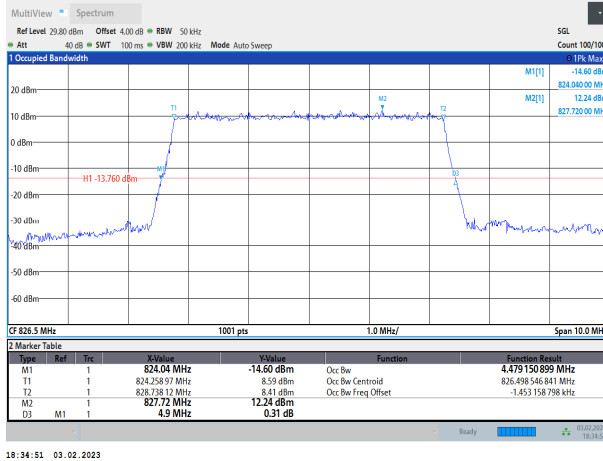


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Band5-5MHz-64QAM-20425-25RB#0



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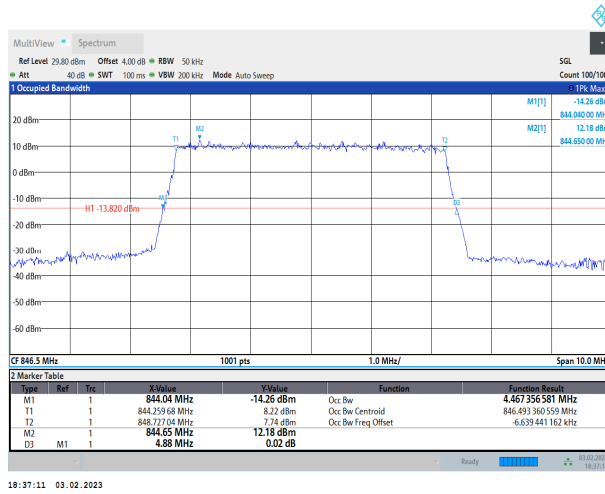


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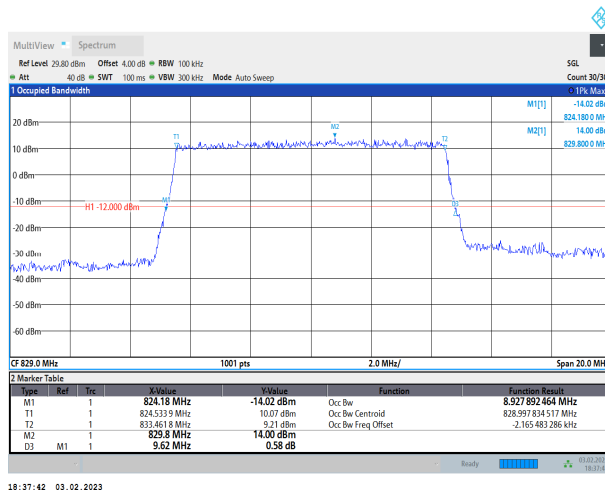
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Band5-5MHz-64QAM-20625-25RB#0



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

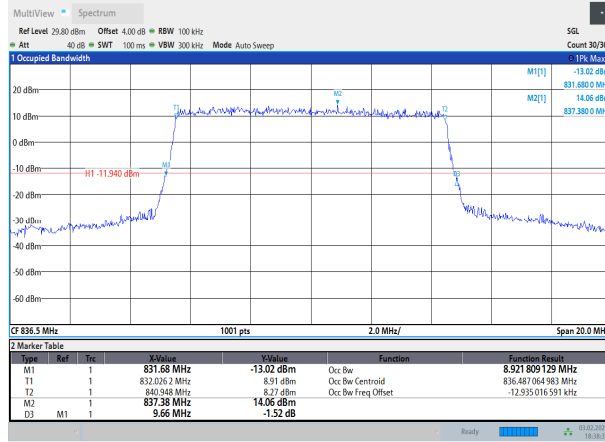


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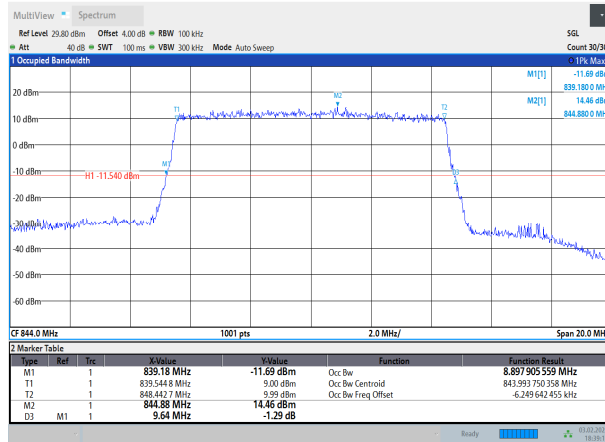
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Band5-10MHz-QPSK-20525-50RB#0



18:38:31 03.02.2023

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



18:39:19 03.02.2023



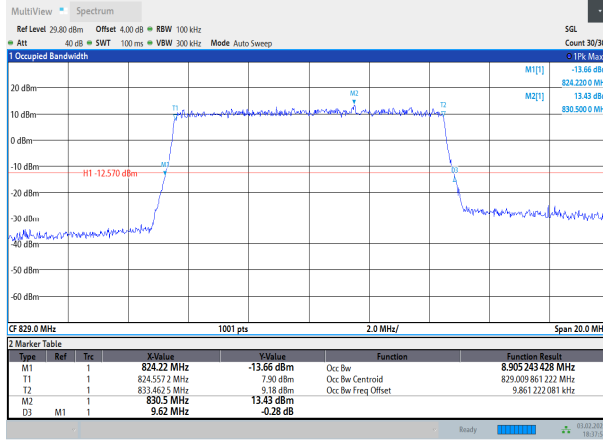
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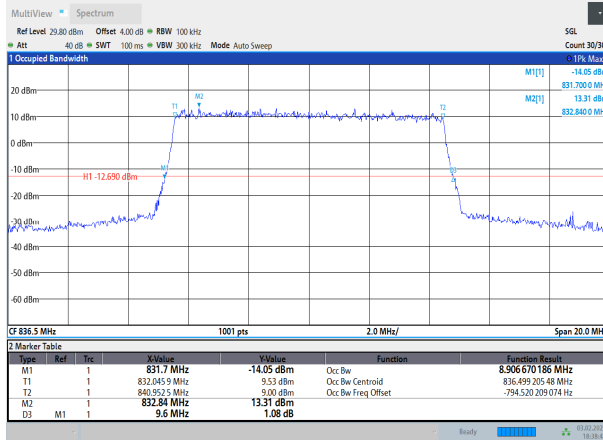


Band5-10MHz-16QAM-20450-50RB#0



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18:38:47 03.02.2023

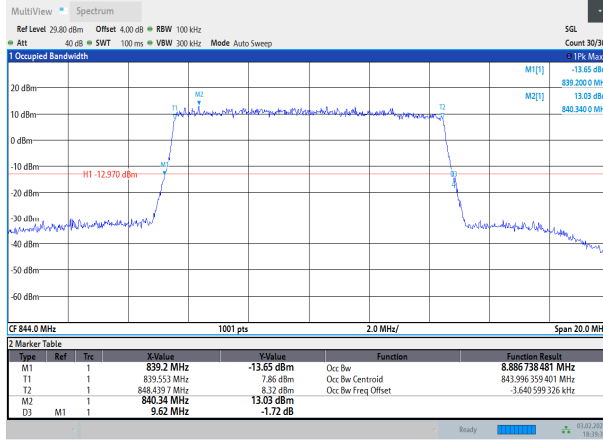


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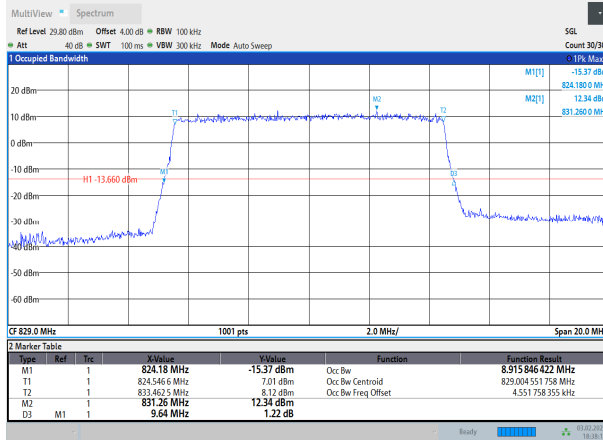
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Band5-10MHz-16QAM-20600-50RB#0



18:39:36 03.02.2023

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



18:38:14 03.02.2023

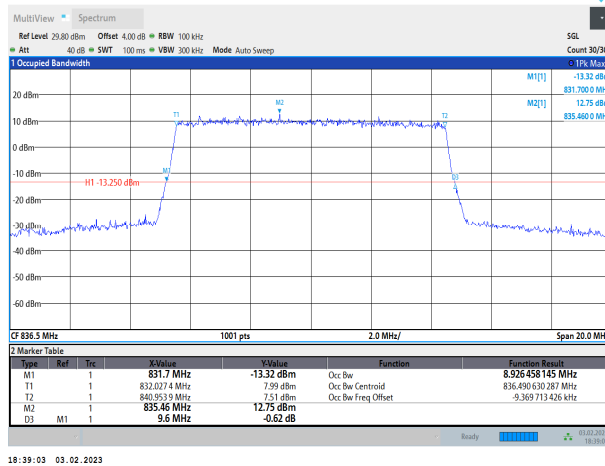


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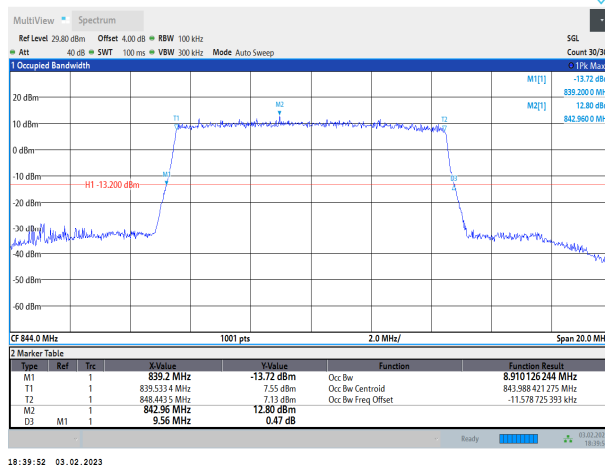
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Band5-10MHz-64QAM-20525-50RB#0



18:39:03 03.02.2023

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



18:39:52 03.02.2023



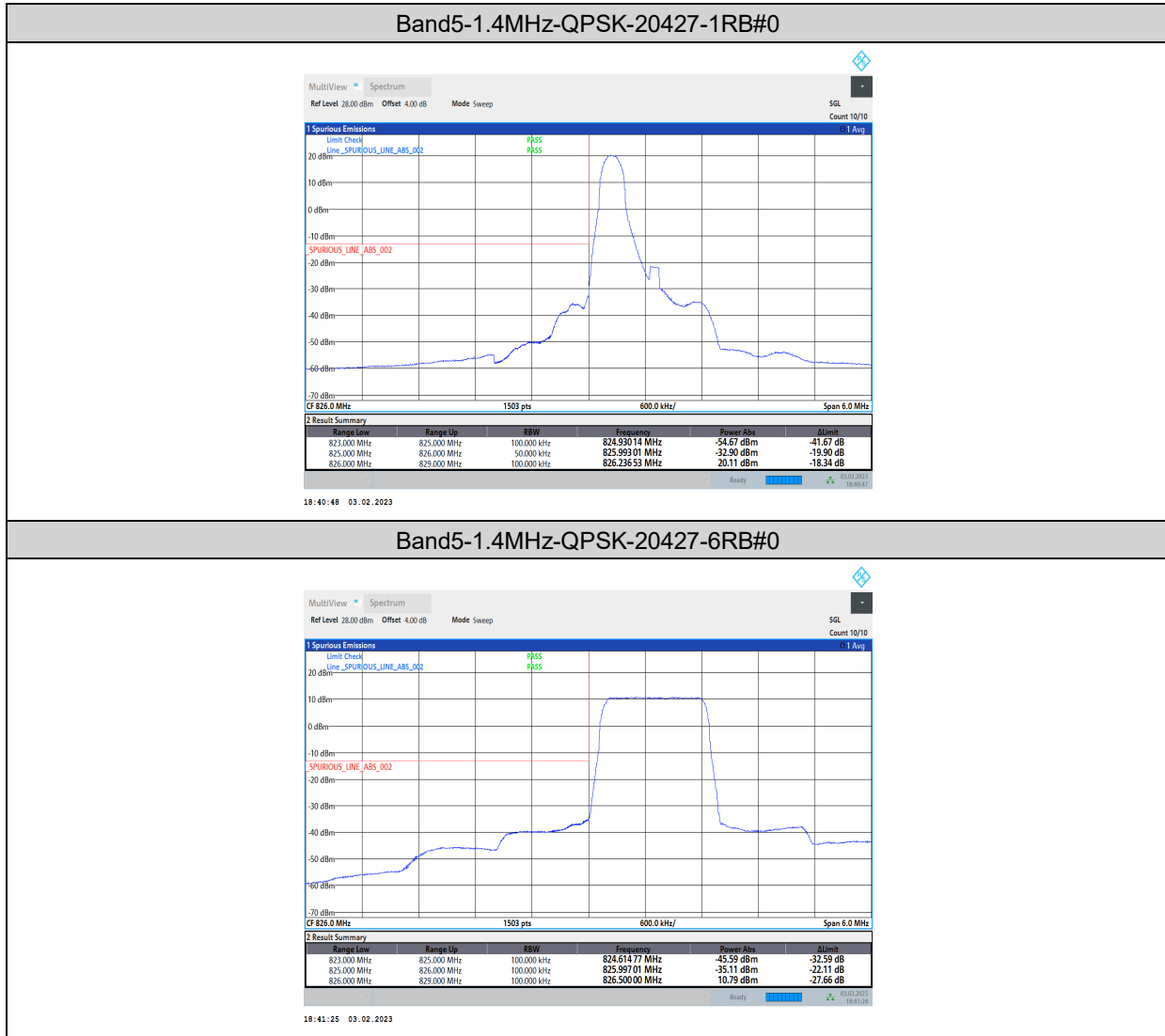
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## Band Edge

## Test Graphs

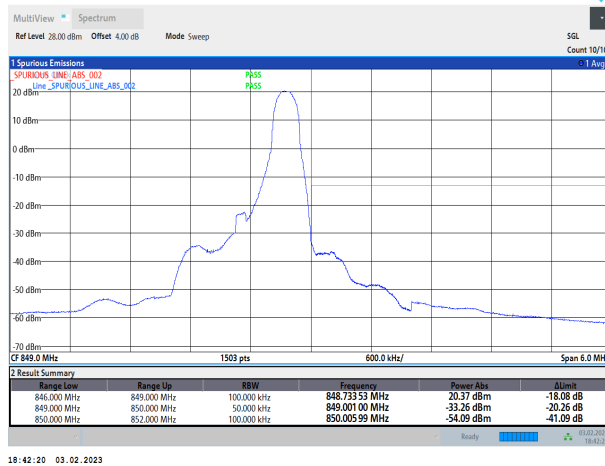


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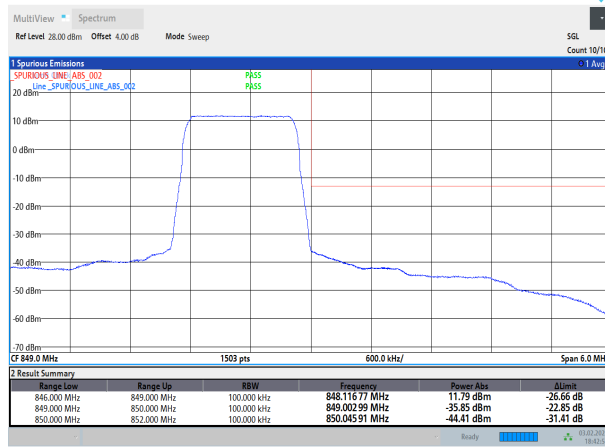
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Band5-1.4MHz-QPSK-20643-1RB#5



18:42:20 03.02.2023

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



18:42:58 03.02.2023

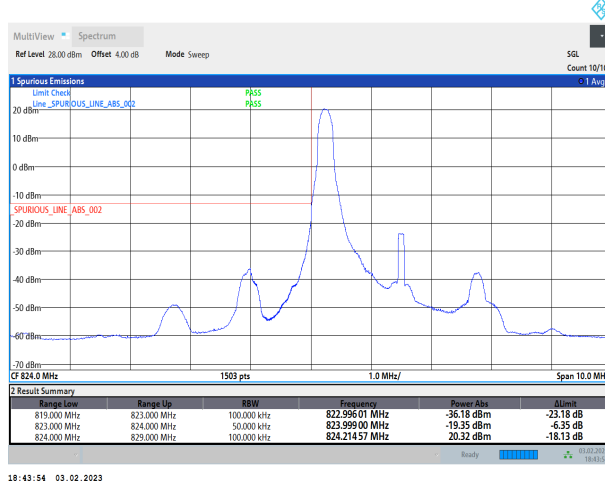


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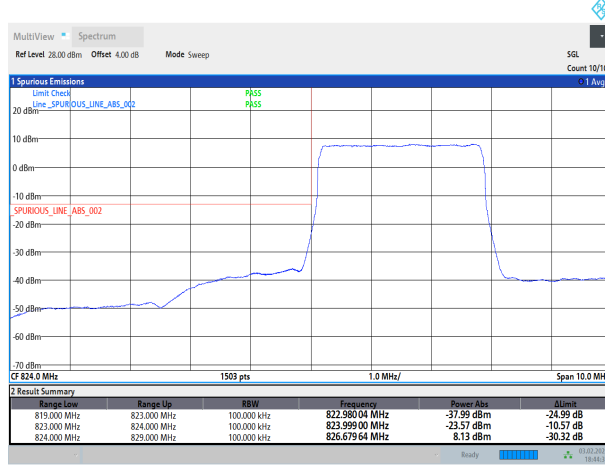
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Band5-3MHz-QPSK-20415-1RB#0



18:43:54 03.02.2023

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



18:44:33 03.02.2023



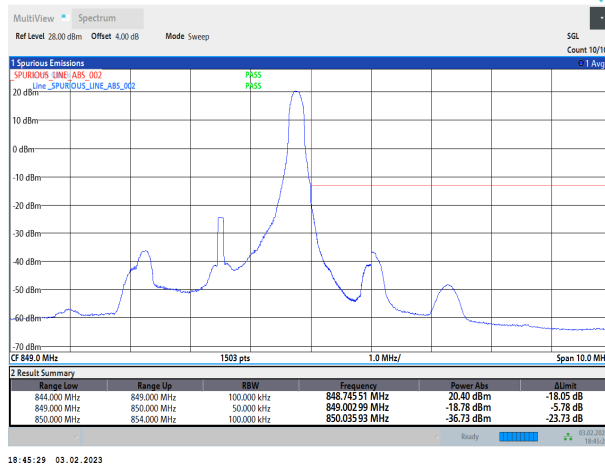
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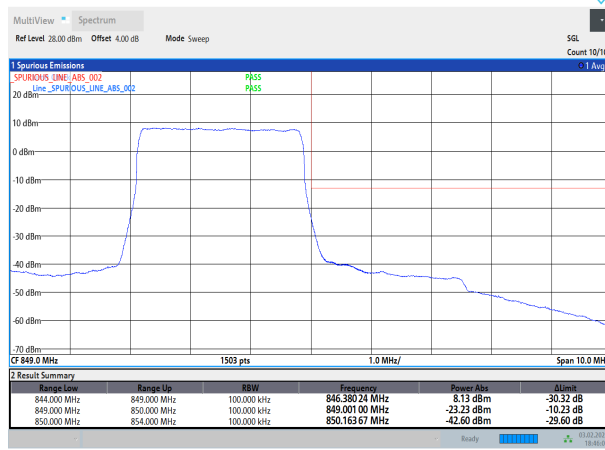


Band5-3MHz-QPSK-20635-1RB#14



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



18:46:06 03.02.2023

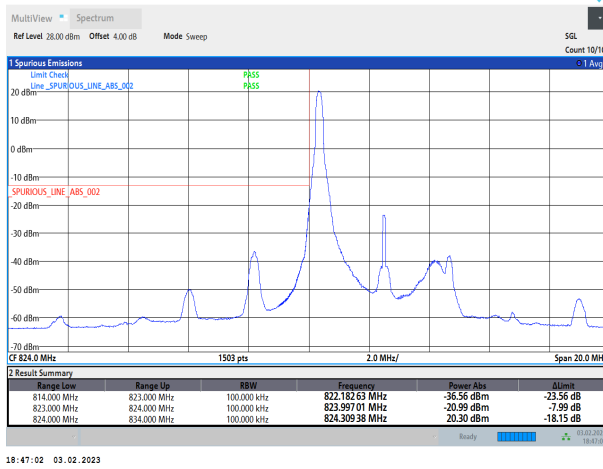


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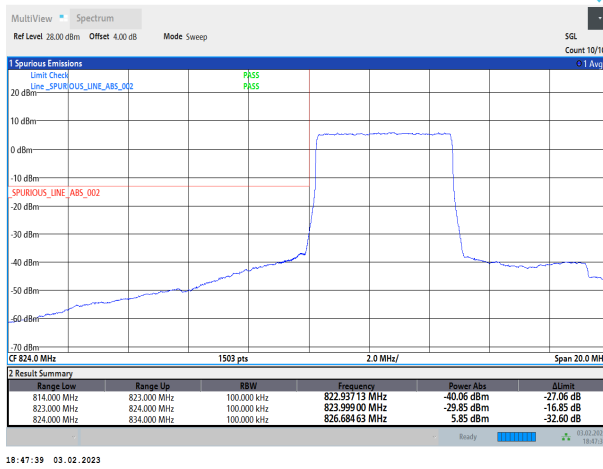
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Band5-5MHz-QPSK-20425-1RB#0



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

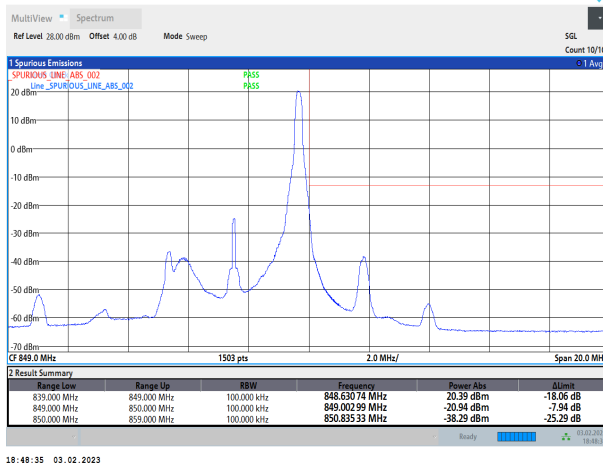


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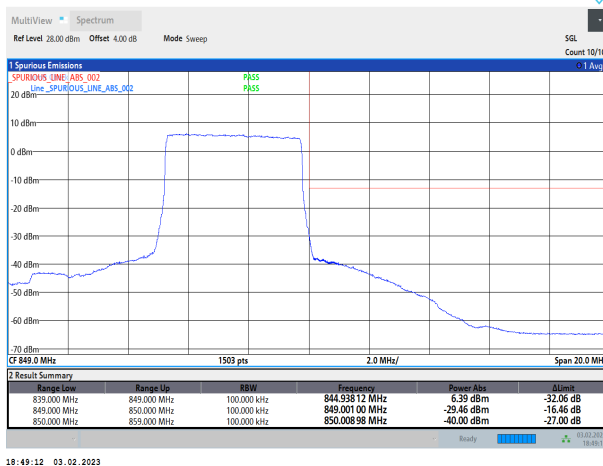
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Band5-5MHz-QPSK-20625-1RB#24



18:48:35 03.02.2023

Band5-5MHz-QPSK-20625-25RB#0



18:49:12 03.02.2023

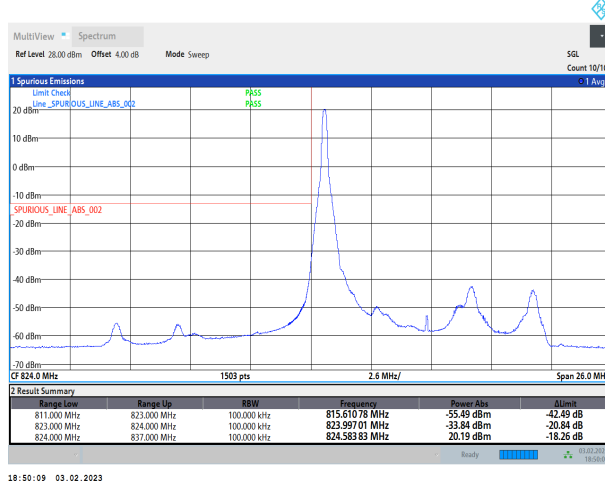


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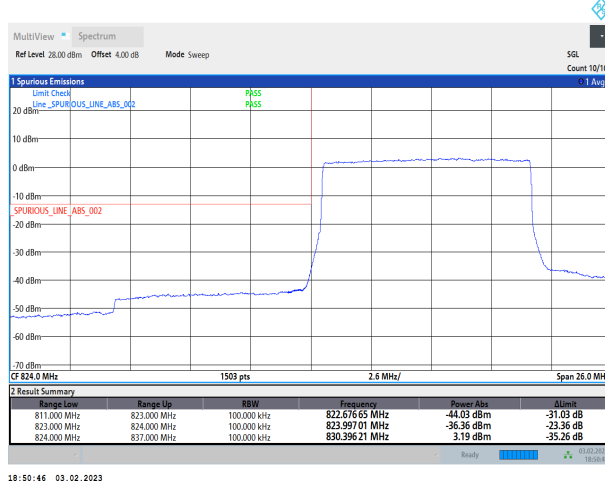
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Band5-10MHz-QPSK-20450-1RB#0



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

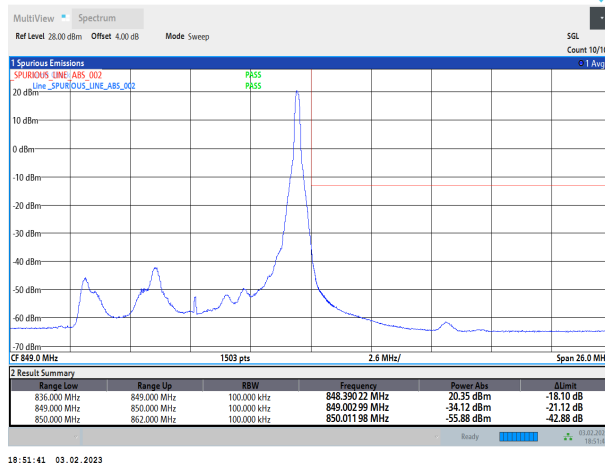


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Band5-10MHz-QPSK-20600-1RB#49



18:51:41 03.02.2023

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



18:52:19 03.02.2023



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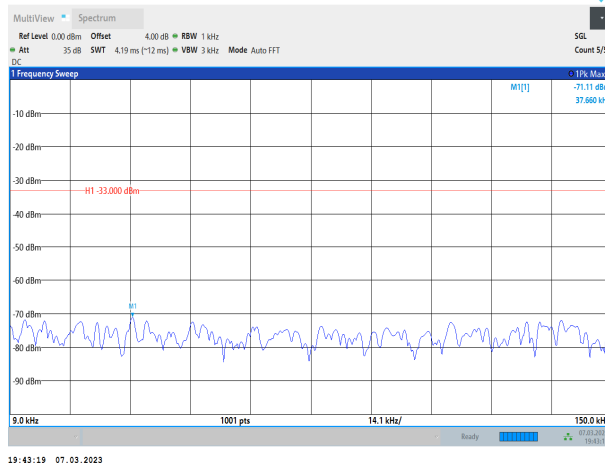
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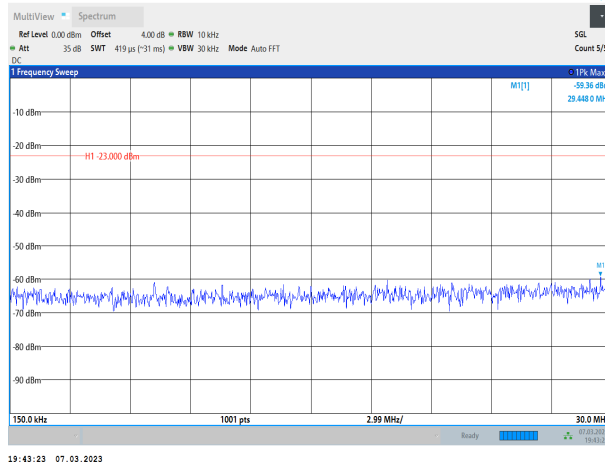
## Conducted Spurious Emission

### Test Graphs

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



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



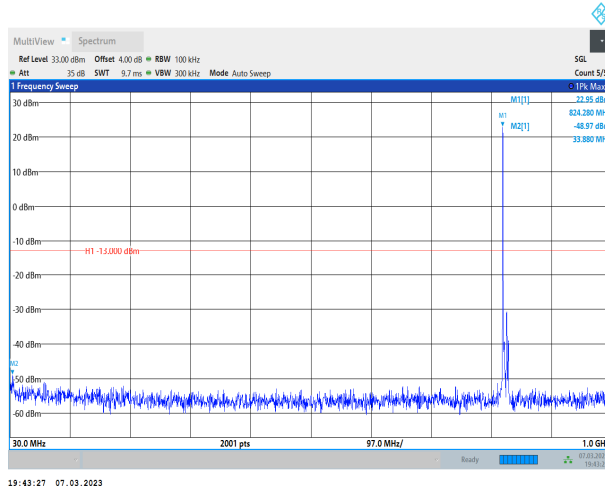
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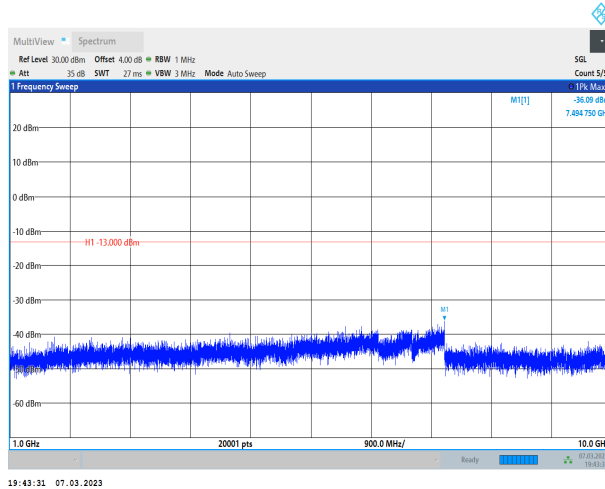
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Band5-10MHz-QPSK-20450-1RB#0-Range3:30~1000MHz



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

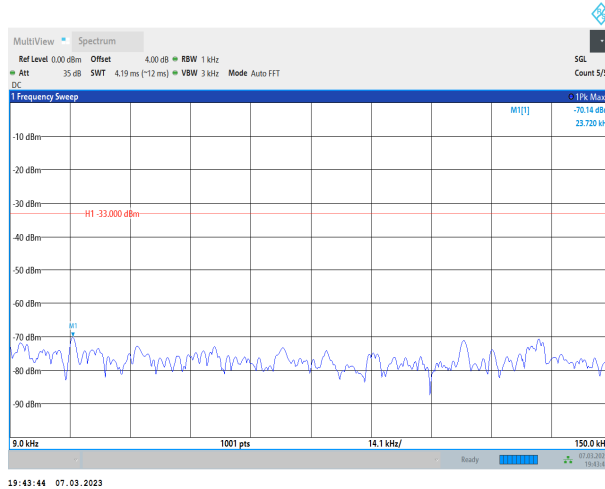


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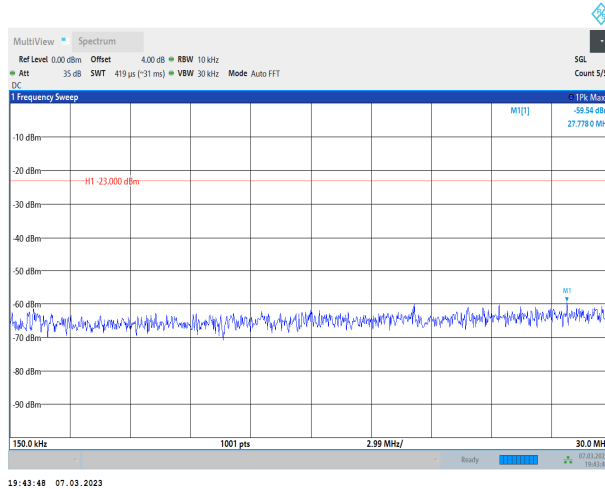
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Band5-10MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



19:43:44 07.03.2023

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



19:43:48 07.03.2023

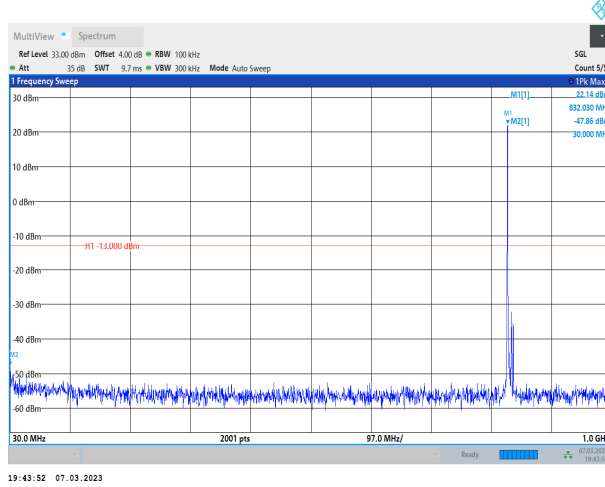


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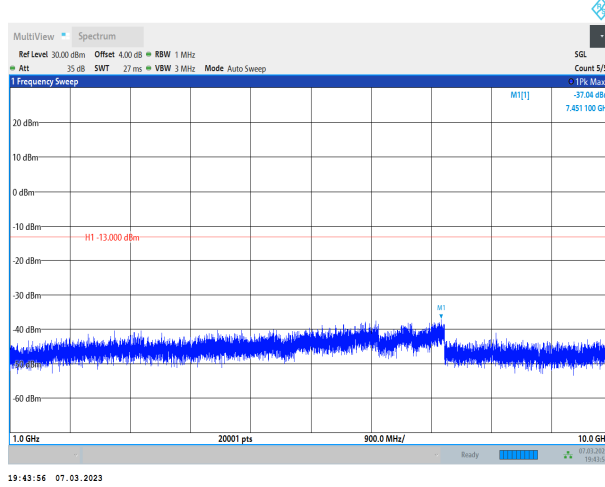
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Band5-10MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



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

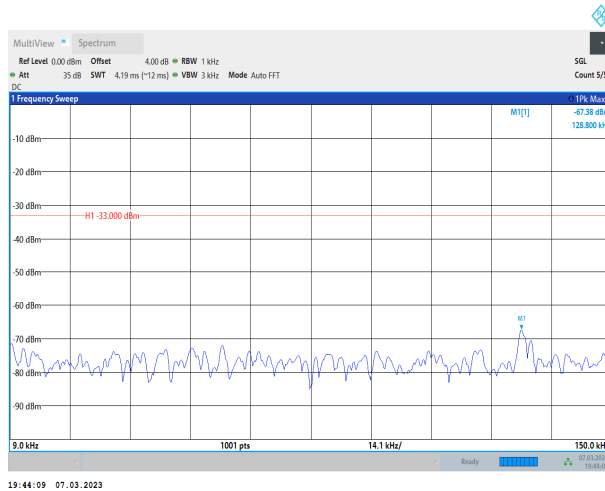


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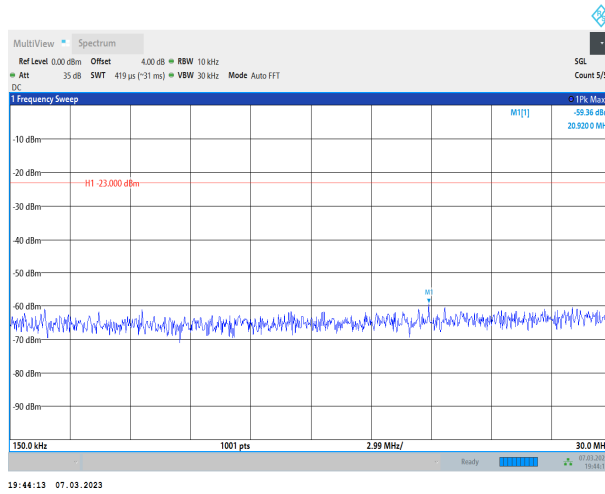
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Band5-10MHz-QPSK-20600-1RB#0-Range1:0.009~0.15MHz



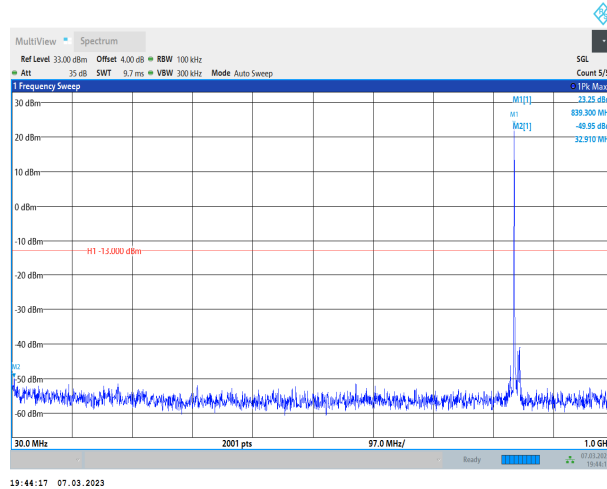
Band5-10MHz-QPSK-20600-1RB#0-Range2:0.15~30MHz



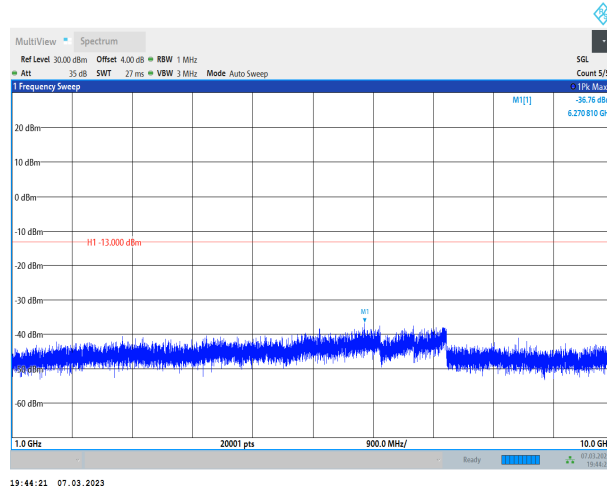
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Band5-10MHz-QPSK-20600-1RB#0-Range3:30~1000MHz



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



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## Field Strength of Spurious Radiation

Test Band = LTE Band 5\_ TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649	54.94	-48.38	25.58	-63.13	-13.00	50.13	214	346	Horizontal
2	2473.77	43.67	-46.96	27.85	-70.70	-13.00	57.70	255	19	Horizontal
3	3298.36	42.61	-46.11	29.48	-69.28	-13.00	56.28	178	357	Horizontal
4	4122.95	41.82	-45.34	30.80	-67.98	-13.00	54.98	265	50	Horizontal
5	4947.54	39.86	-45.08	32.48	-68.01	-13.00	55.01	293	123	Horizontal
6	5772.13	39.14	-43.52	33.47	-66.17	-13.00	53.17	189	199	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	54.67	-48.38	25.58	-63.40	-13.00	50.40	193	360	Vertical
2	5760	44.80	-43.53	33.43	-60.56	-13.00	47.56	221	329	Vertical
3	2473.77	45.09	-46.96	27.85	-69.28	-13.00	56.28	163	283	Vertical
4	3298.36	42.52	-46.11	29.48	-69.37	-13.00	56.37	286	74	Vertical
5	4122.95	41.57	-45.34	30.80	-68.23	-13.00	55.23	241	360	Vertical
6	4947.54	40.78	-45.08	32.48	-67.09	-13.00	54.09	197	283	Vertical



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**Test Band = LTE Band 5\_ TM1**

**Test Channel = Mid Channel**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.18	53.96	-48.34	25.57	-64.07	-13.00	51.07	158	225	Horizontal
2	2496.27	43.09	-46.77	27.89	-71.05	-13.00	58.05	231	138	Horizontal
3	3328.36	42.61	-46.16	29.47	-69.34	-13.00	56.34	298	357	Horizontal
4	4160.45	41.56	-45.23	30.86	-68.07	-13.00	55.07	224	21	Horizontal
5	4992.54	39.56	-45.02	32.58	-68.14	-13.00	55.14	163	12	Horizontal
6	5824.63	41.14	-43.43	33.64	-63.91	-13.00	50.91	154	50	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	1664.18	52.95	-48.34	25.57	-65.08	-13.00	52.08	181	359	Vertical
2	2496.27	45.43	-46.77	27.89	-68.71	-13.00	55.71	263	249	Vertical
3	3328.36	42.50	-46.16	29.47	-69.45	-13.00	56.45	299	145	Vertical
4	4160.45	41.27	-45.23	30.86	-68.36	-13.00	55.36	138	359	Vertical
5	4992.54	39.68	-45.02	32.58	-68.02	-13.00	55.02	254	249	Vertical
6	5824.63	40.01	-43.43	33.64	-65.04	-13.00	52.04	187	235	Vertical



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**Test Band = LTE Band 5\_ TM1**
**Test Channel = High Channel**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.18	51.71	-48.30	25.56	-66.29	-13.00	53.29	164	198	Horizontal
2	2518.77	43.94	-46.84	27.96	-70.19	-13.00	57.19	267	357	Horizontal
3	3358.36	42.56	-46.21	29.46	-69.45	-13.00	56.45	211	357	Horizontal
4	4197.95	41.35	-45.12	30.92	-68.11	-13.00	55.11	146	0	Horizontal
5	5037.54	40.34	-44.85	32.60	-67.17	-13.00	54.17	283	1	Horizontal
6	5887.13	38.71	-43.24	33.84	-65.95	-13.00	52.95	331	80	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	53.30	-48.30	25.56	-64.70	-13.00	51.70	162	72	Vertical
2	4993	44.93	-45.02	32.58	-62.77	-13.00	49.77	198	327	Vertical
3	2518.77	45.63	-46.84	27.96	-68.50	-13.00	55.50	225	239	Vertical
4	3358.36	42.34	-46.21	29.46	-69.67	-13.00	56.67	284	87	Vertical
5	4197.95	41.51	-45.12	30.92	-67.95	-13.00	54.95	319	104	Vertical
6	5887.13	39.00	-43.24	33.84	-65.66	-13.00	52.66	223	296	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

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	0.70	0.000837	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-1.20	-0.001435	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-0.50	-0.000598	±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	-0.30	-0.000359	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	1.10	0.001315	±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	-3.50	-0.004184	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-1.90	-0.002271	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	1.30	0.001554	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-2.50	-0.002989	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	1.40	0.001674	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-3.00	-0.003586	±2.5	PASS

---End of Attachment---



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 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgs.com  
 t (86-512) 62992980 sgs.china@sgs.com