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# Appendix B.3

## 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	23.23	23.29	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.53	23.59	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.56	23.62	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.44	22.5	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.34	23.4	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.34	23.4	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.32	23.38	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.4	22.46	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.31	23.37	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.22	23.28	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	22.98	23.04	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.42	22.48	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.62	22.68	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.81	22.87	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.65	22.71	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.8	21.86	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.59	22.65	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.73	22.79	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.73	22.79	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.57	21.63	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.72	22.78	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.68	22.74	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.46	22.52	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.46	21.52	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.2	23.26	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.72	23.78	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.74	23.8	38.45	PASS



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Band5	3MHz	QPSK	20415	15RB#0	22.68	22.74	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.25	23.31	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.4	23.46	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.25	23.31	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.4	22.46	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.43	23.49	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.45	23.51	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	22.97	23.03	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.46	22.52	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.6	22.66	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.87	22.93	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	23.07	23.13	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.74	21.8	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.66	22.72	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.71	22.77	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.56	22.62	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.5	21.56	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.76	22.82	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.82	22.88	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.47	22.53	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.55	21.61	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.59	23.65	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.87	23.93	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.99	24.05	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.9	22.96	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.51	23.57	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.37	23.43	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.5	23.56	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.51	22.57	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.88	23.94	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.59	23.65	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.24	23.3	38.45	PASS



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Band5	5MHz	QPSK	20625	25RB#0	22.77	22.83	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	23	23.06	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	23.28	23.34	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	23.31	23.37	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.98	22.04	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.92	22.98	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.65	22.71	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.89	22.95	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.59	21.65	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	23.22	23.28	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.95	23.01	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.77	22.83	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.81	21.87	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.69	23.75	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	24.12	24.18	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.6	23.66	38.45	PASS
Band5	10MHz	QPSK	20450	27RB#0	22.96	23.02	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.54	23.6	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.43	23.49	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.65	23.71	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.56	22.62	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.65	23.71	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.79	23.85	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.36	23.42	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.8	22.86	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	23	23.06	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	23.51	23.57	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.88	22.94	38.45	PASS
Band5	10MHz	16QAM	20450	27RB#0	23.32	23.38	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.94	23	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.75	22.81	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.99	23.05	38.45	PASS



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Band5	10MHz	16QAM	20525	27RB#0	23.15	23.21	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	23.13	23.19	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	23.32	23.38	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.7	22.76	38.45	PASS
Band5	10MHz	16QAM	20600	27RB#0	23.12	23.18	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	5.52	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.80	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.60	13	PASS



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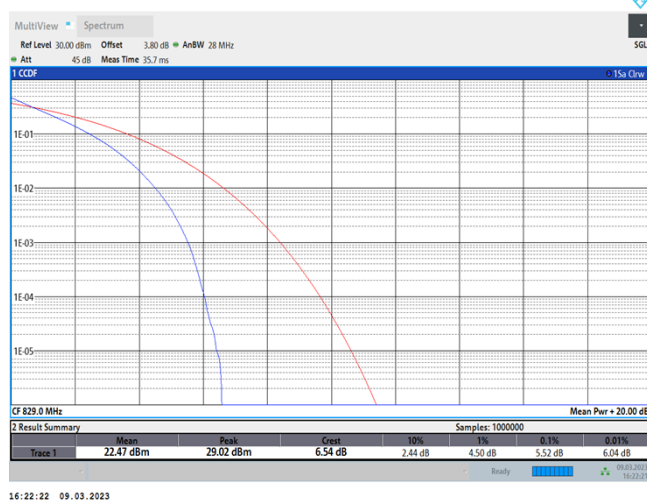
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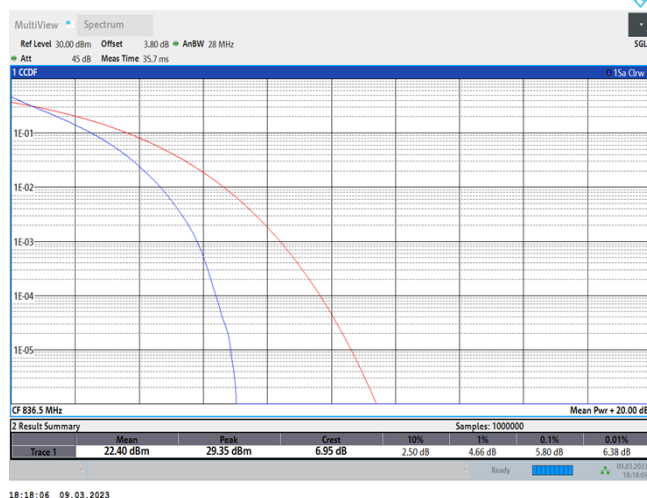
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### Test Graphs

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



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



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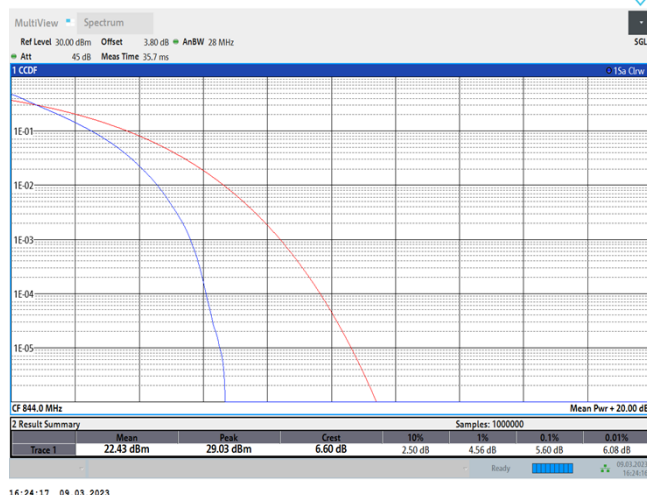
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### Band5-10MHz-QPSK-20600-50RB#0



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## Modulation Characteristics

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band5	5MHz	QPSK	20525	25RB#0	PASS	PASS
Band5	5MHz	16QAM	20525	25RB#0	PASS	PASS



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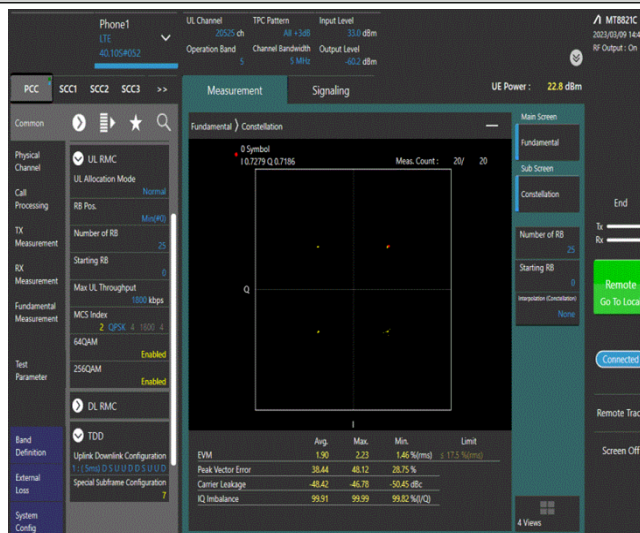
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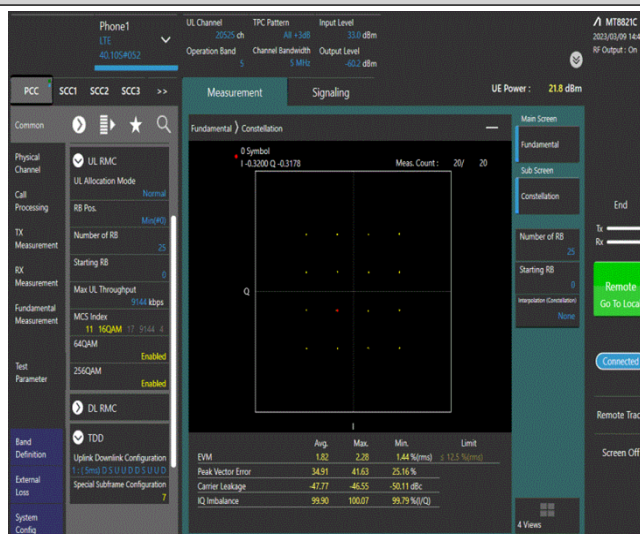
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### Test Graphs

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



Band5-10MHz-16QAM-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	1.088	1.29	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.088	1.29	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.088	1.29	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.096	1.30	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.096	1.30	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.095	1.30	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.696	3.02	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.689	3.00	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.693	3.00	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.691	3.03	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.689	3.00	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.687	3.00	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.47	4.94	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.465	4.93	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.466	4.91	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.468	4.98	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.468	4.99	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.46	4.96	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.936	9.86	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.945	9.98	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.927	9.88	PASS
Band5	10MHz	16QAM	20450	27RB#0	4.878	5.88	PASS
Band5	10MHz	16QAM	20525	27RB#0	4.887	5.96	PASS
Band5	10MHz	16QAM	20600	27RB#0	4.884	5.88	PASS



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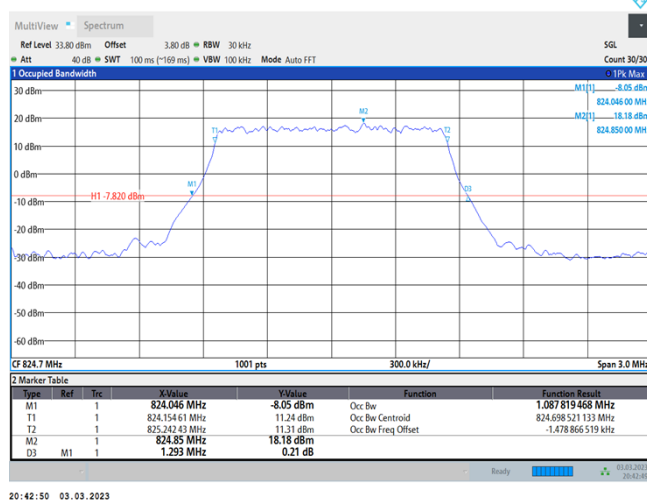
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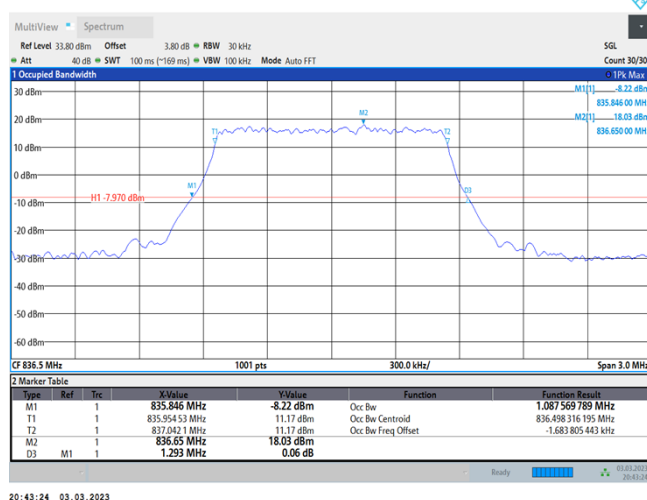
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### Test Graphs

Band5-1.4MHz-QPSK-20407-6RB#0



Band5-1.4MHz-QPSK-20525-6RB#0



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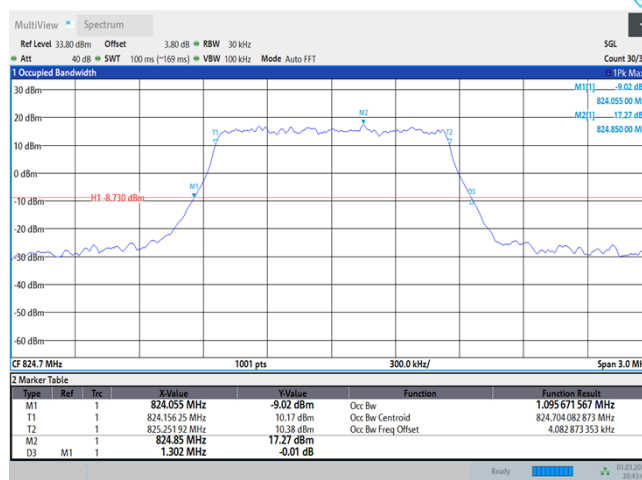
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### Band5-1.4MHz-QPSK-20643-6RB#0



20:43:59 03.03.2023

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



20:43:07 03.03.2023



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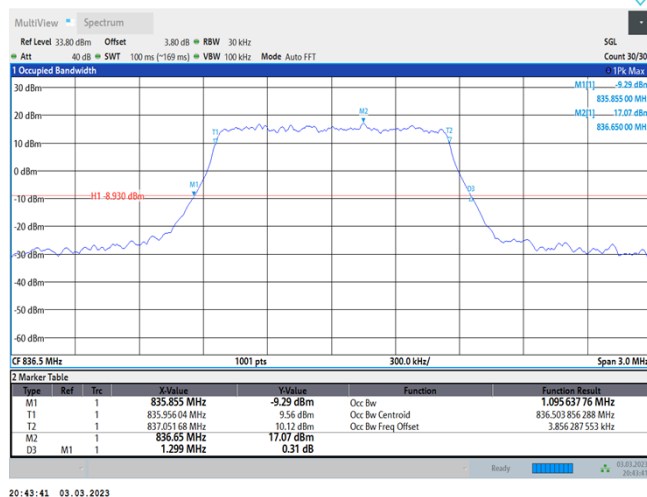


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### Band5-1.4MHz-16QAM-20525-6RB#0



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



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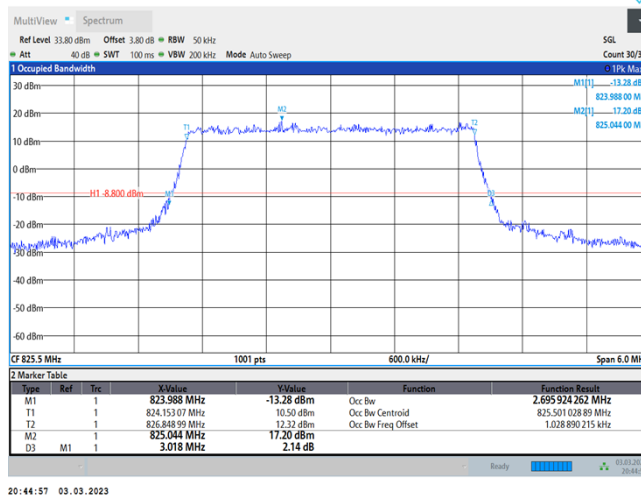
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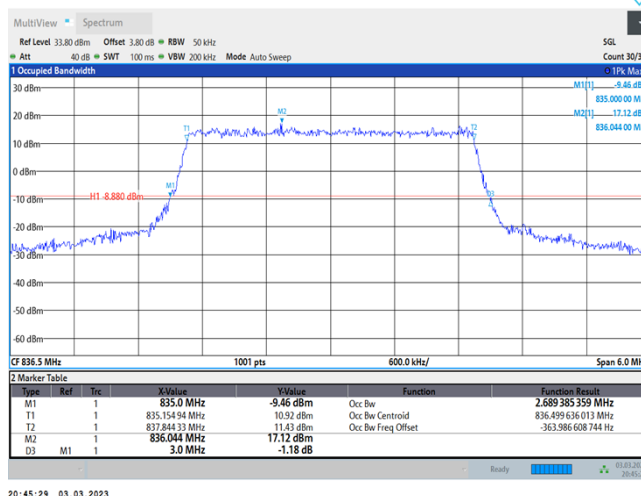
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### Band5-3MHz-QPSK-20415-15RB#0



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



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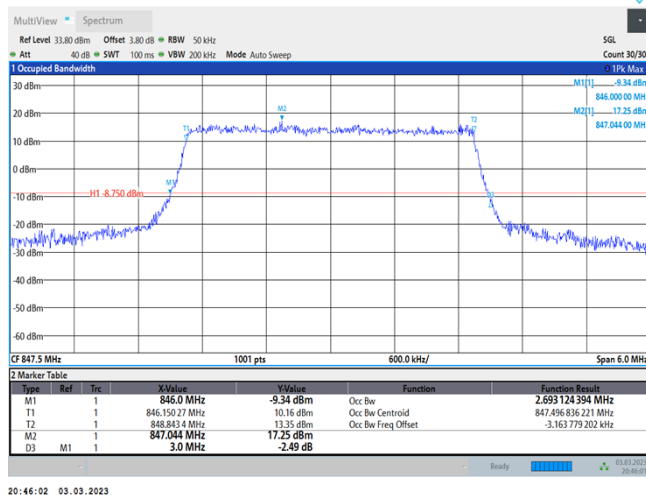
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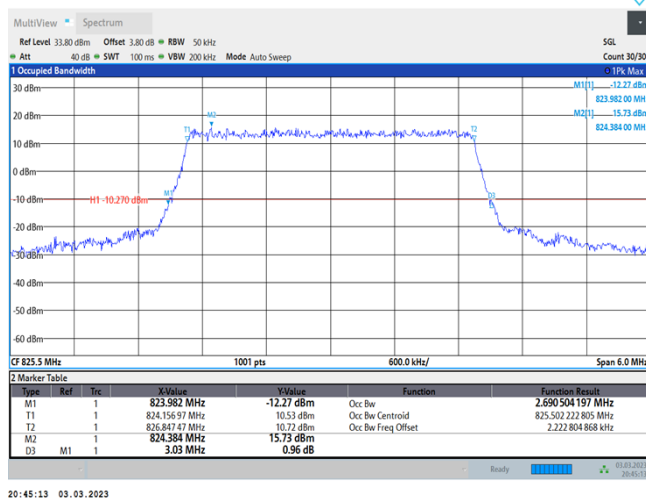
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### Band5-3MHz-16QAM-20415-15RB#0



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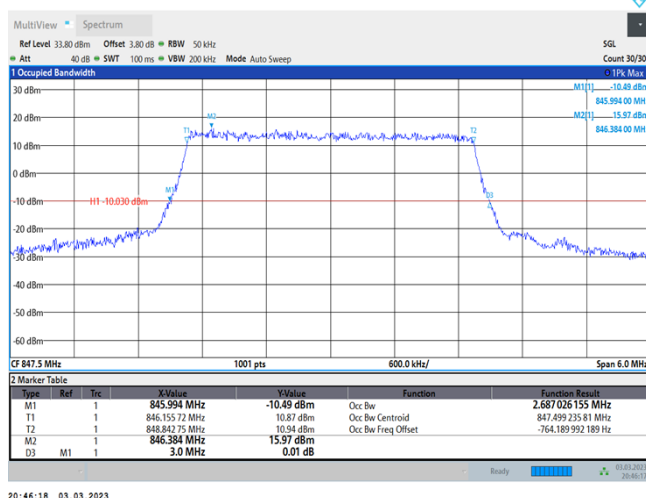
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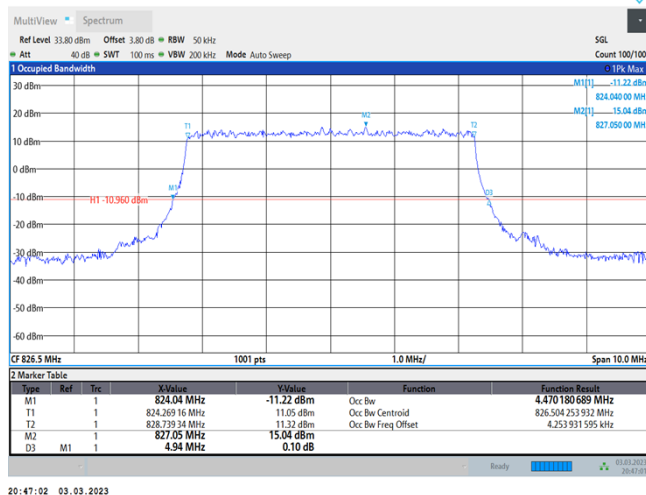
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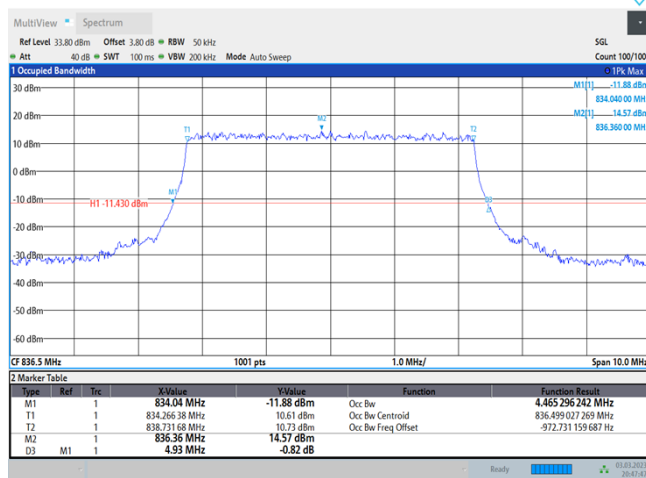
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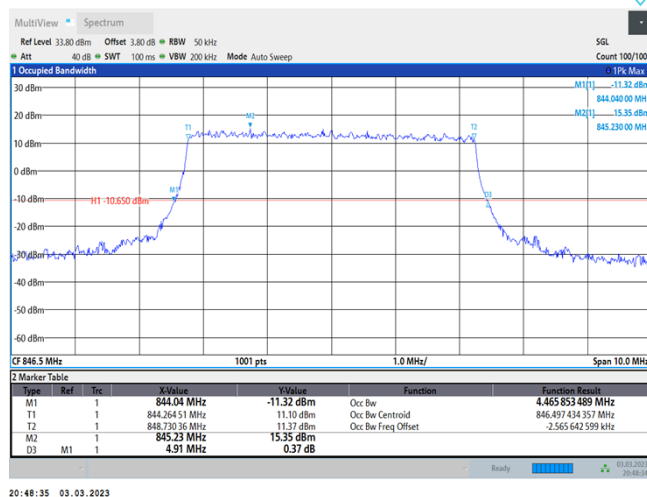


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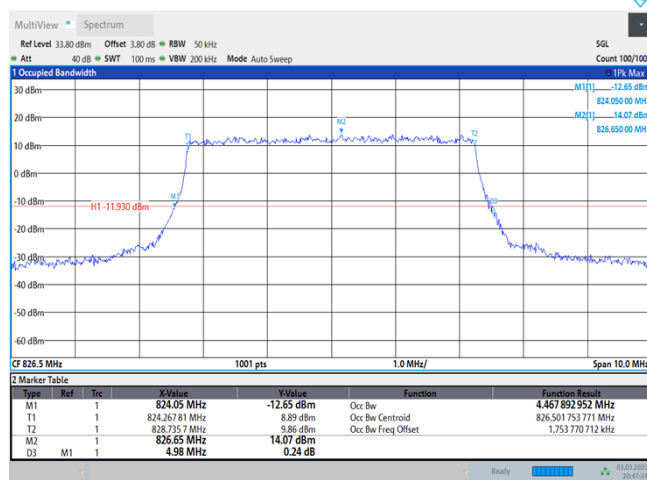
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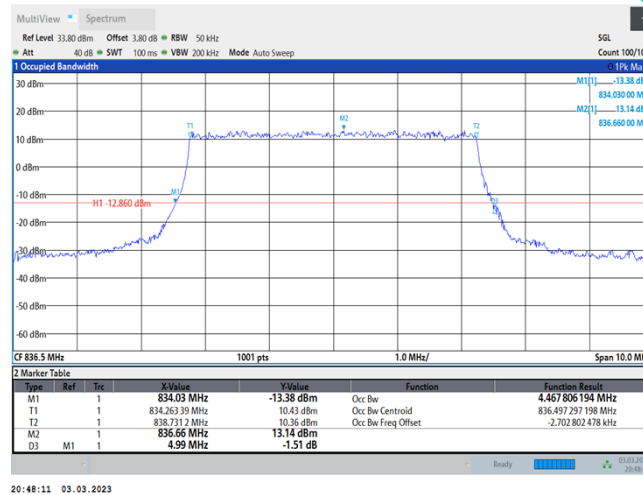
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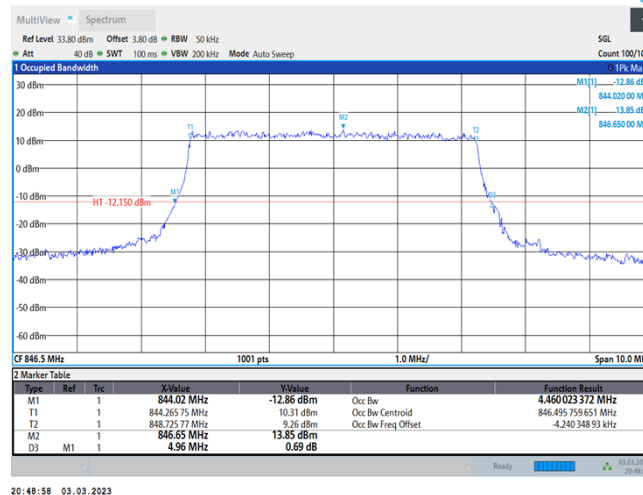
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