



Appendix B

E-UTRA Band 5



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1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	23.20	19.85	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.31	19.96	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.33	19.98	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	23.15	19.80	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#2	23.28	19.93	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	23.22	19.87	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.34	18.99	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.41	20.06	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.45	20.10	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.46	20.11	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	23.41	20.06	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#2	23.43	20.08	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	23.48	20.13	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.33	18.98	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.32	19.97	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.44	20.09	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.23	19.88	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	23.22	19.87	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#2	23.45	20.10	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	23.21	19.86	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.28	18.93	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	21.84	18.49	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.21	18.86	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.58	19.23	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	21.79	18.44	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#2	22.23	18.88	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	22.57	19.22	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.33	17.98	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.41	19.06	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.12	18.77	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.21	18.86	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	22.39	19.04	38.45	PASS



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Band5	1.4MHz	16QAM	20525	3RB#2	22.14	18.79	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	22.21	18.86	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.38	18.03	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.17	18.82	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.41	19.06	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	21.84	18.49	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	22.18	18.83	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#2	22.43	19.08	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	21.91	18.56	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.13	17.78	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.18	19.83	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#7	23.33	19.98	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.26	19.91	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.26	18.91	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#0	22.35	19.00	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#7	22.21	18.86	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.25	18.90	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.40	20.05	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#7	23.54	20.19	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.41	20.06	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.32	18.97	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#0	22.32	18.97	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#7	22.29	18.94	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.29	18.94	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.28	19.93	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#7	23.44	20.09	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.27	19.92	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.21	18.86	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#0	22.20	18.85	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#7	22.07	18.72	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.23	18.88	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	21.78	18.43	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#7	22.18	18.83	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.57	19.22	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.03	17.68	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#0	21.28	17.93	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#7	21.38	18.03	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.34	17.99	38.45	PASS



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Band5	3MHz	16QAM	20525	1RB#0	22.39	19.04	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#7	22.08	18.73	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.20	18.85	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.21	17.86	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#0	21.19	17.84	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#7	21.09	17.74	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.29	17.94	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.17	18.82	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#7	22.43	19.08	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	21.91	18.56	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.32	17.97	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#0	21.39	18.04	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#7	21.29	17.94	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.09	17.74	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.13	19.78	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#13	23.28	19.93	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.26	19.91	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#0	22.27	18.92	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#6	22.36	19.01	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#13	22.24	18.89	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.35	19.00	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.41	20.06	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#13	23.48	20.13	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.48	20.13	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#0	22.37	19.02	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#6	22.30	18.95	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#13	22.30	18.95	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.31	18.96	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.22	19.87	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#13	23.44	20.09	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.20	19.85	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#0	22.22	18.87	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#6	22.24	18.89	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#13	22.06	18.71	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.22	18.87	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	21.86	18.51	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#13	22.15	18.80	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.60	19.25	38.45	PASS



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Band5	5MHz	16QAM	20425	12RB#0	21.03	17.68	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#6	21.38	18.03	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#13	21.39	18.04	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.35	18.00	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.42	19.07	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#13	22.06	18.71	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.19	18.84	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#0	21.19	17.84	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#6	21.17	17.82	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#13	21.09	17.74	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.33	17.98	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.25	18.90	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#13	22.43	19.08	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	21.83	18.48	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#0	21.26	17.91	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#6	21.44	18.09	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#13	21.27	17.92	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.15	17.80	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.31	19.96	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#25	23.43	20.08	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.46	20.11	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#0	22.38	19.03	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#13	22.49	19.14	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#25	22.35	19.00	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.45	19.10	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.59	20.24	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#25	23.64	20.29	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.58	20.23	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#0	22.52	19.17	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#13	22.44	19.09	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#25	22.42	19.07	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.45	19.10	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.42	20.07	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#25	23.61	20.26	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.39	20.04	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#0	22.34	18.99	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#13	22.36	19.01	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#25	22.21	18.86	38.45	PASS



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Band5	10MHz	QPSK	20600	50RB#0	22.40	19.05	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	21.97	18.62	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#25	22.32	18.97	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.73	19.38	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#0	21.23	17.88	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#13	21.48	18.13	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#25	21.51	18.16	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.49	18.14	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.58	19.23	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#25	22.23	18.88	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.38	19.03	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#0	21.38	18.03	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#13	21.29	17.94	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#25	21.24	17.89	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.49	18.14	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.36	19.01	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#25	22.58	19.23	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.01	18.66	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#0	21.44	18.09	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#13	21.56	18.21	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#25	21.43	18.08	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.26	17.91	38.45	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBi]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]



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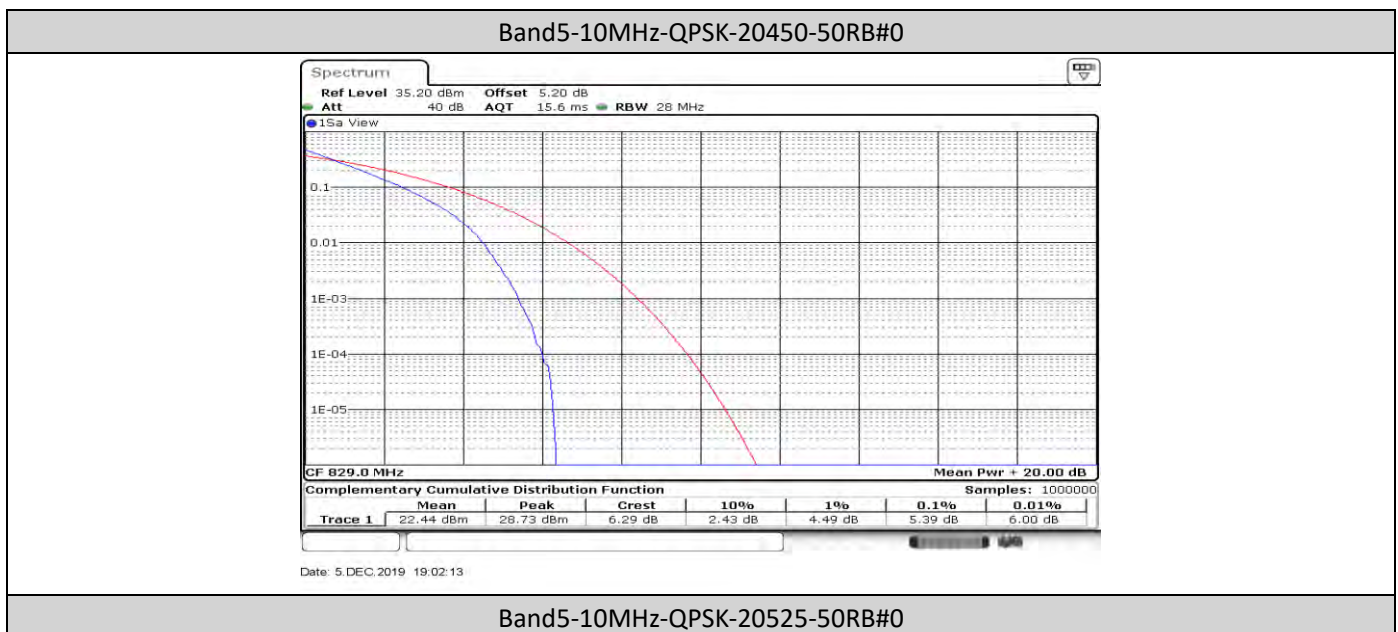


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	5.39	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.10	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.33	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.06	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.83	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.12	13	PASS

2.2. Test Plots





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



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





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



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



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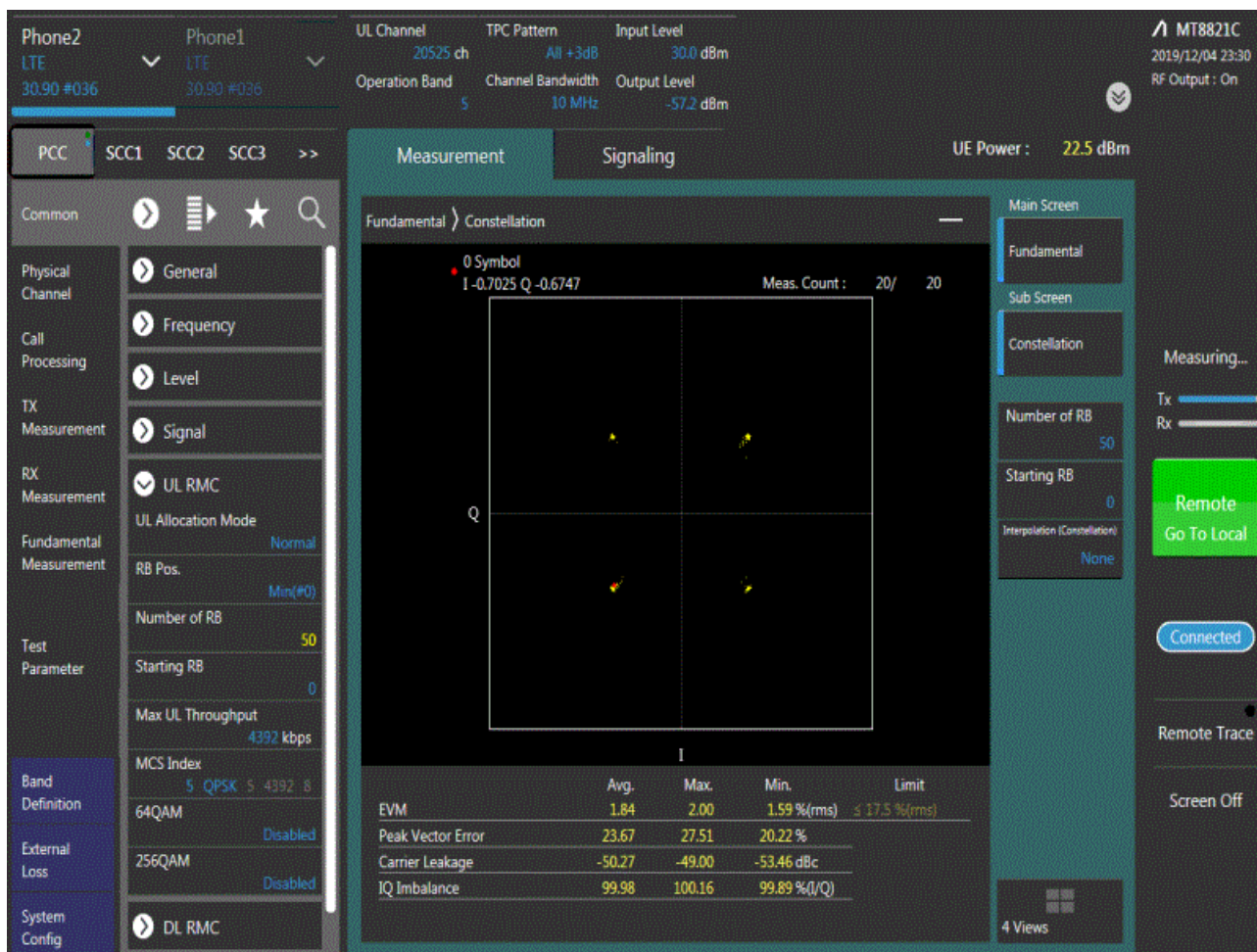




3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

3.1.1. Test Channel = MCH



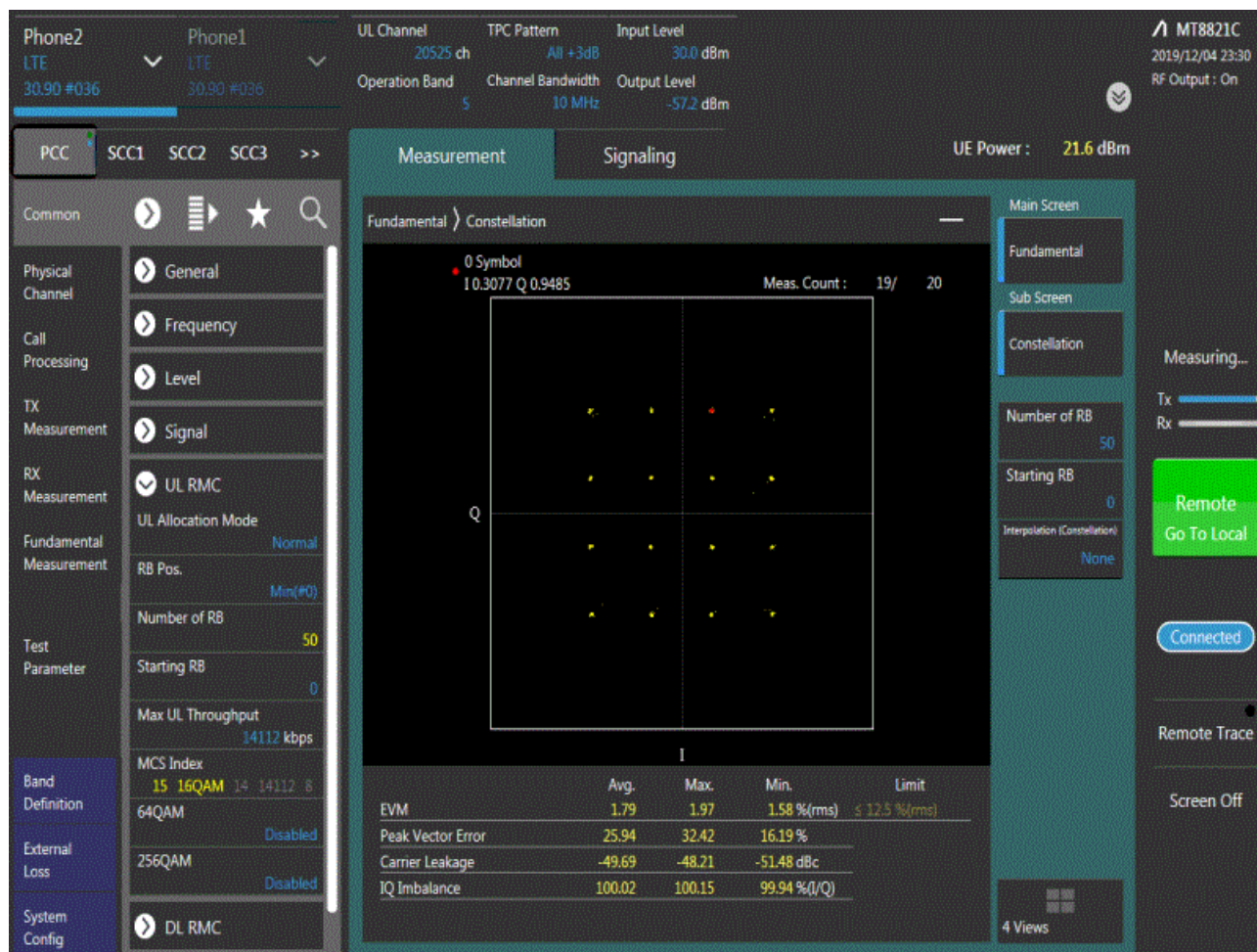
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3.2. Test Mode = LTE /TM2 10MHz

3.2.1. Test Channel = MCH





4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.091	1.290	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.091	1.296	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.091	1.290	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.091	1.284	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.088	1.278	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.088	1.284	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.697	2.994	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.697	3.000	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.697	2.982	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.685	2.970	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.691	2.958	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.685	2.970	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.476	4.940	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.476	4.920	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.466	4.920	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.496	4.960	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.486	4.950	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.486	4.920	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.931	9.720	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.911	9.680	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.911	9.680	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.931	9.780	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.891	9.740	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.911	9.740	PASS



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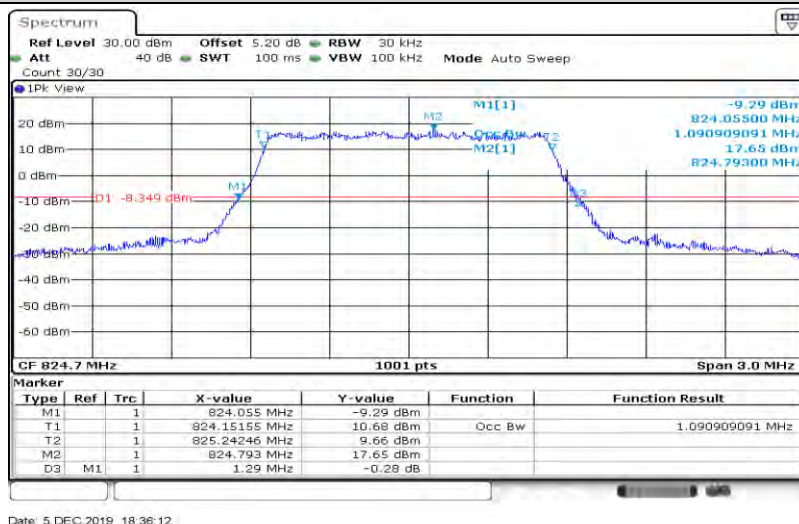
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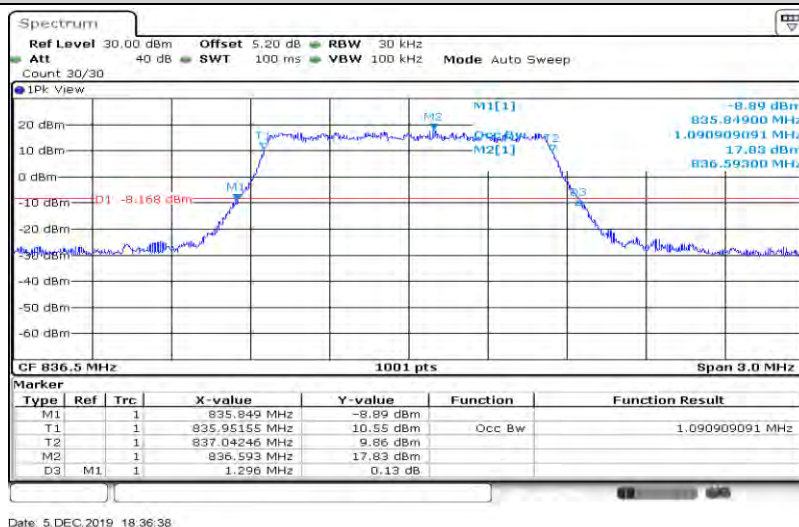
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4.2. Test Plots

Band5-1.4MHz-QPSK-20407-6RB#0-1.091



Band5-1.4MHz-QPSK-20525-6RB#0-1.091

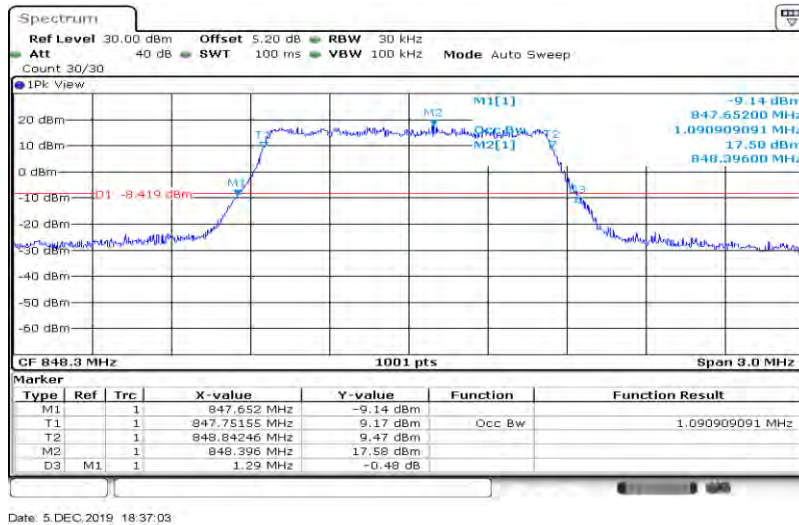


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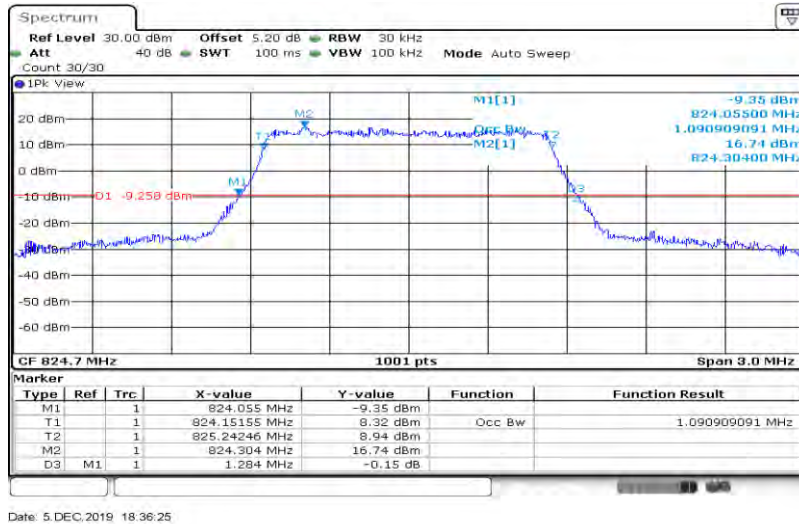


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Band5-1.4MHz-16QAM-20407-6RB#0-1.091

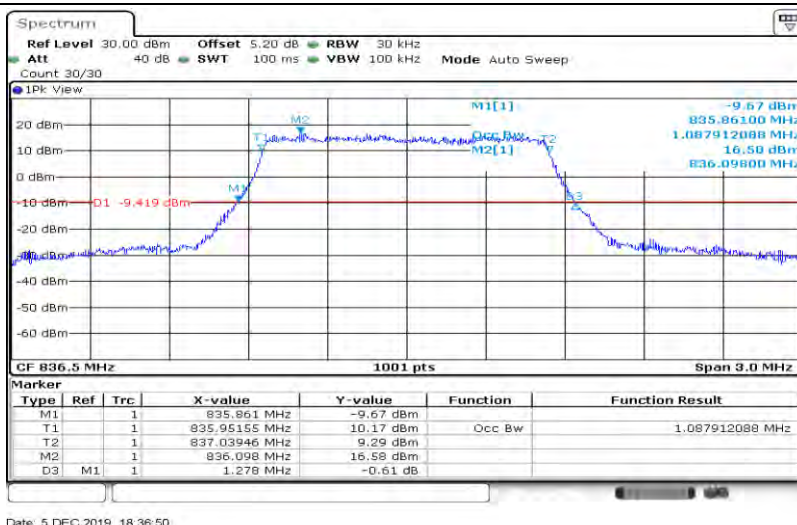


Band5-1.4MHz-16QAM-20525-6RB#0-1.088

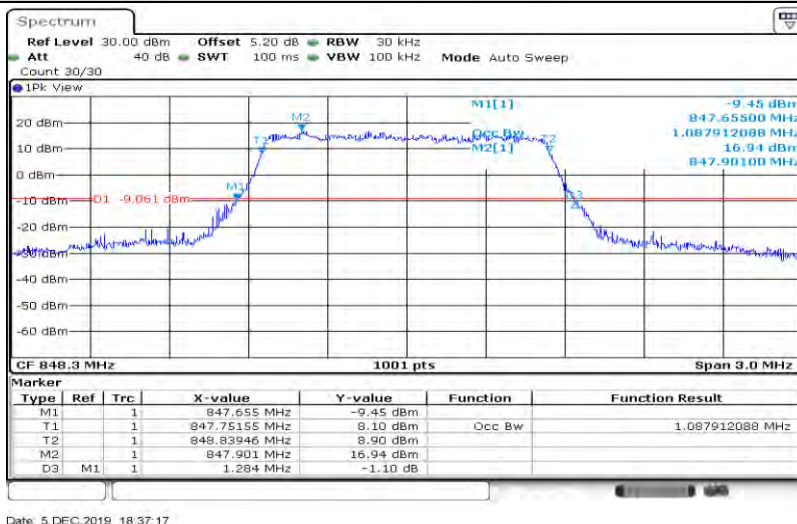


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Band5-1.4MHz-16QAM-20643-6RB#0-1.088



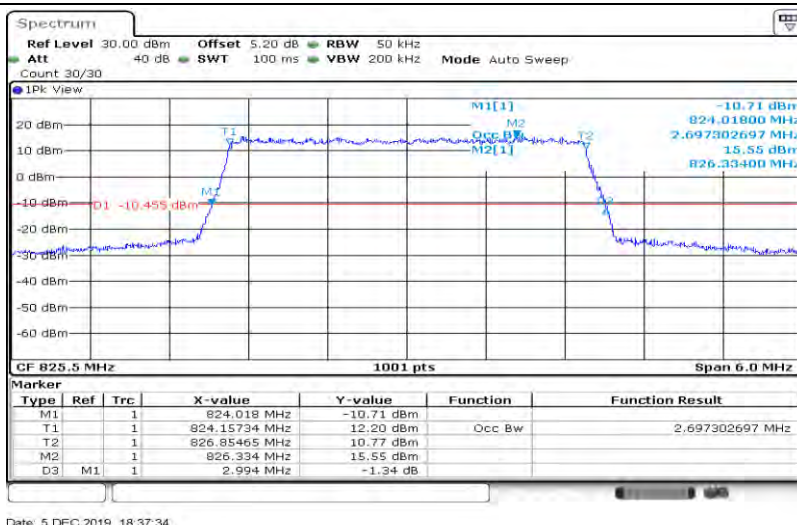
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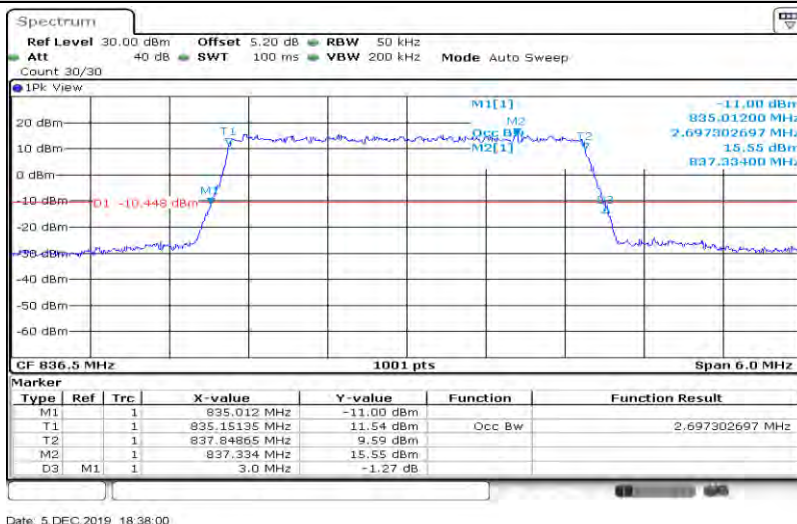
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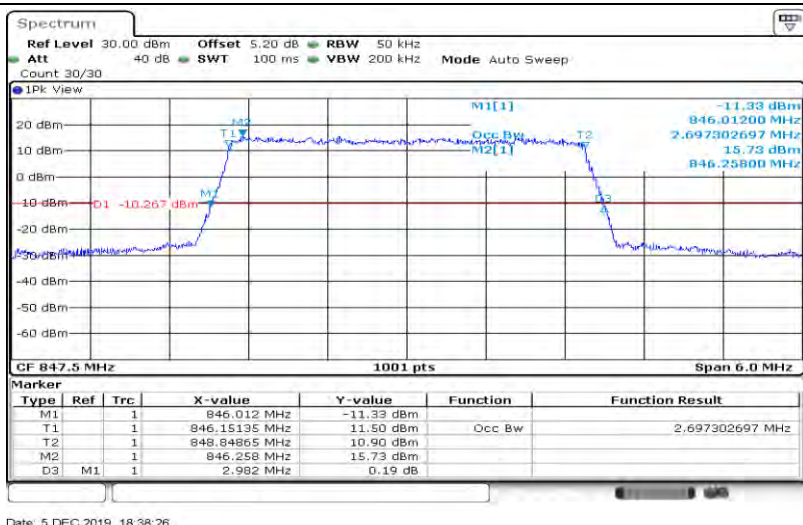


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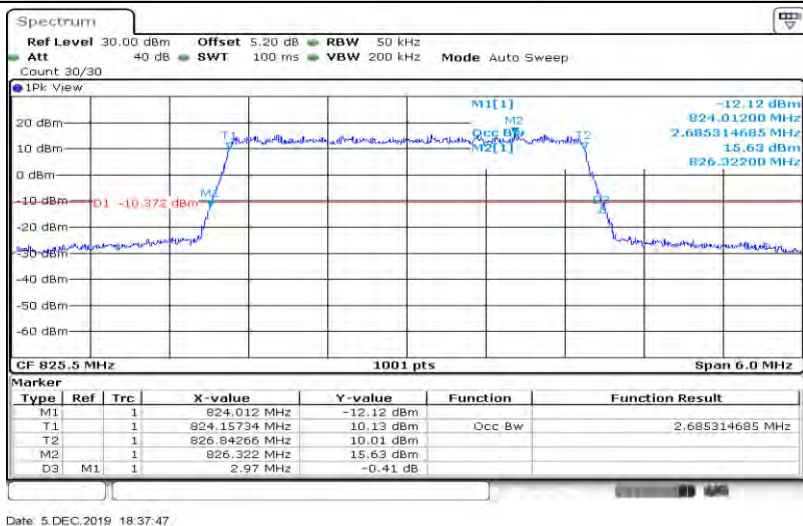


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Band5-3MHz-16OAM-20415-15RB#0-2.685

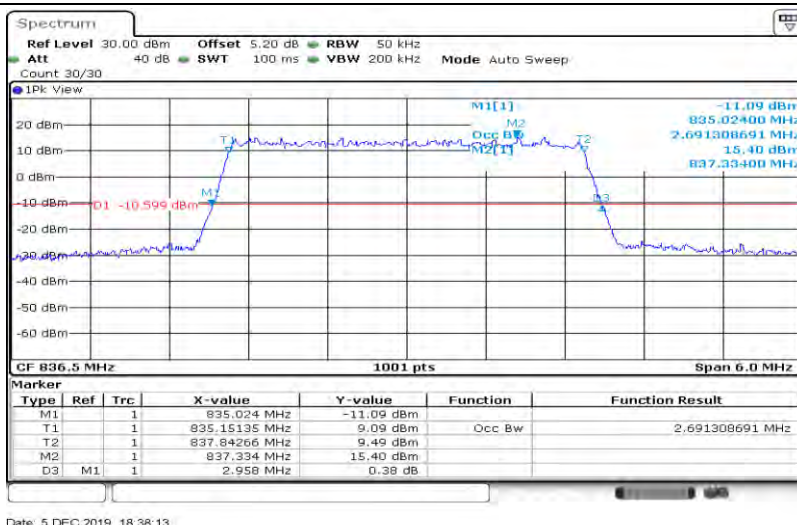


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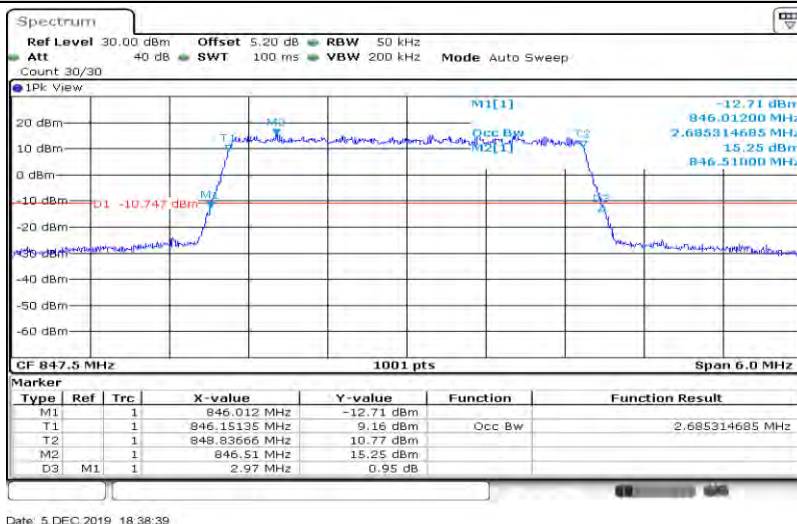


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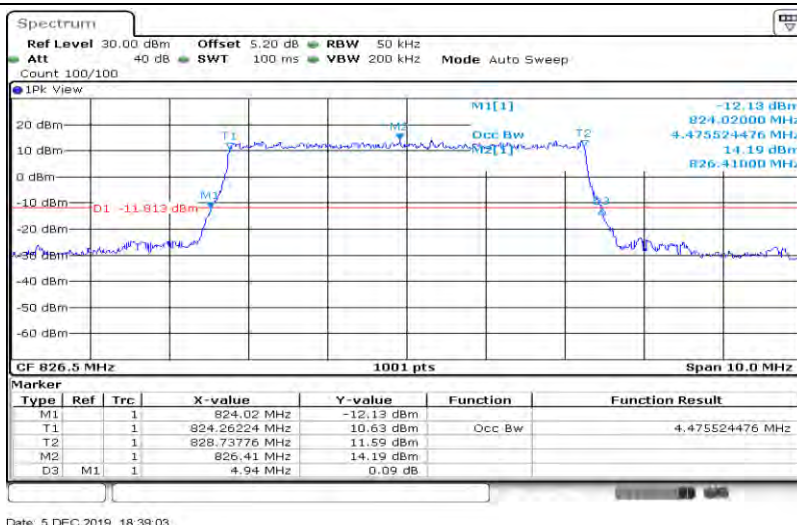


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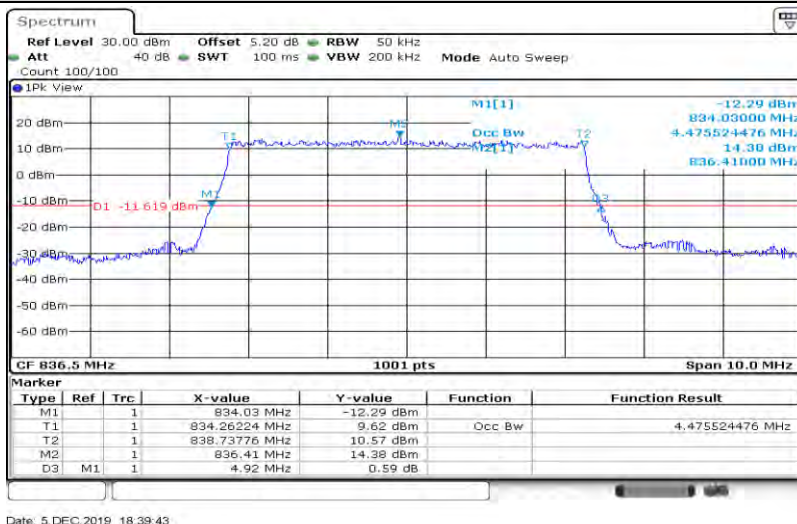


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Band5-5MHz-QPSK-20525-25RB#0-4.476

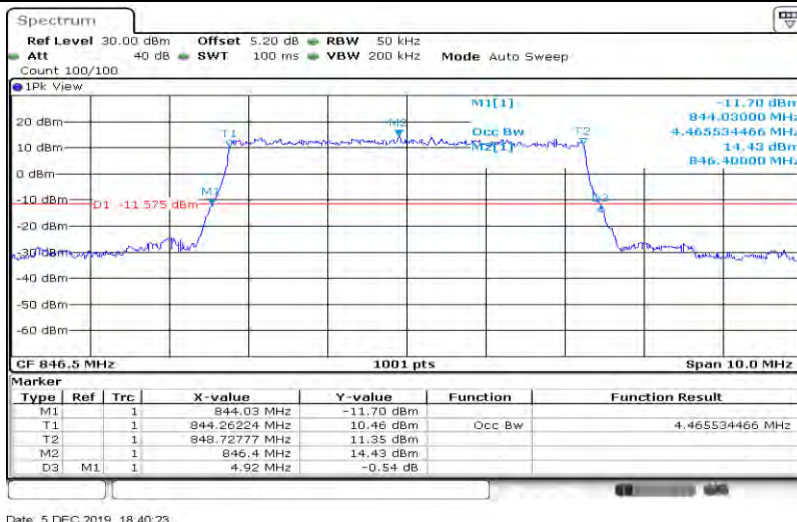


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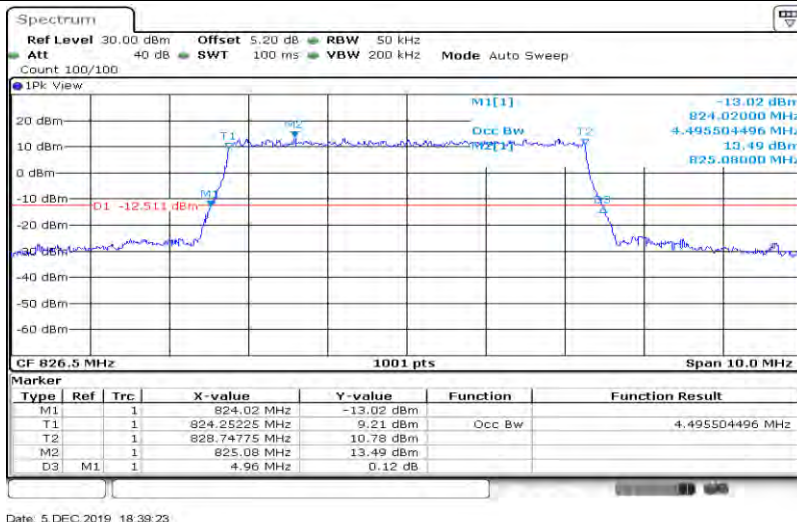


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Band5-5MHz-16QAM-20425-25RB#0-4.496

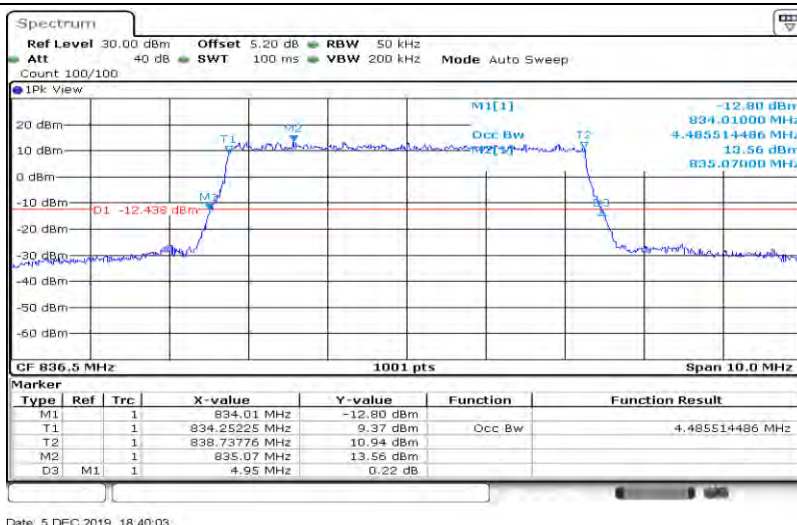


Band5-5MHz-16QAM-20525-25RB#0-4.486

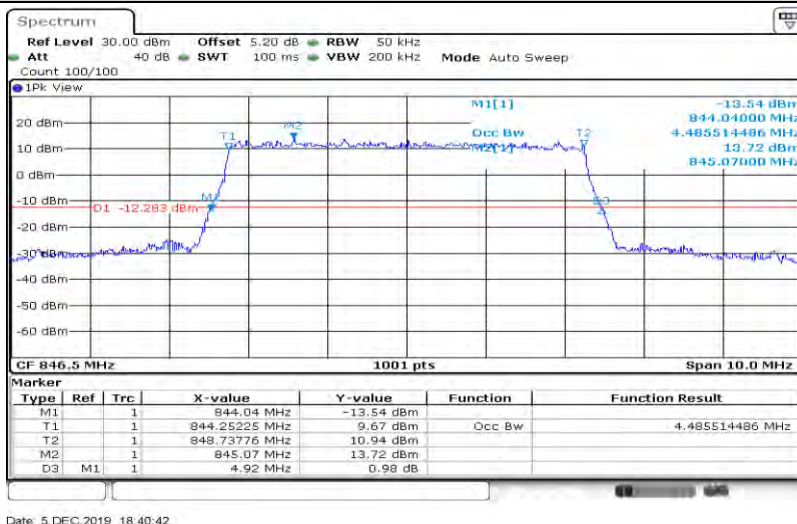


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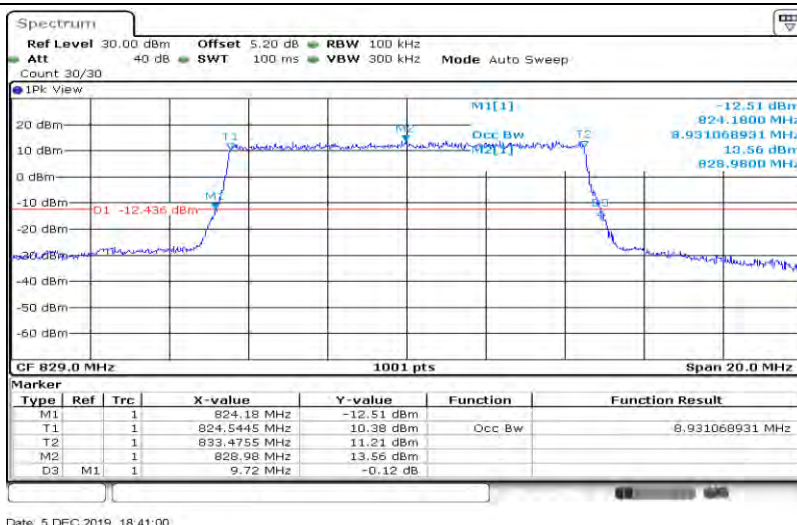
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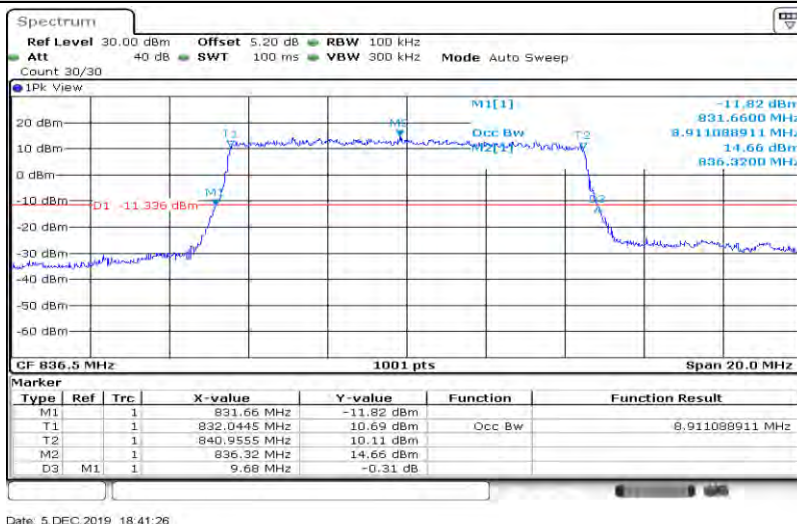
Band5-5MHz-16QAM-20625-25RB#0-4.486



Band5-10MHz-QPSK-20450-50RB#0-8.931



Band5-10MHz-QPSK-20525-50RB#0-8.911

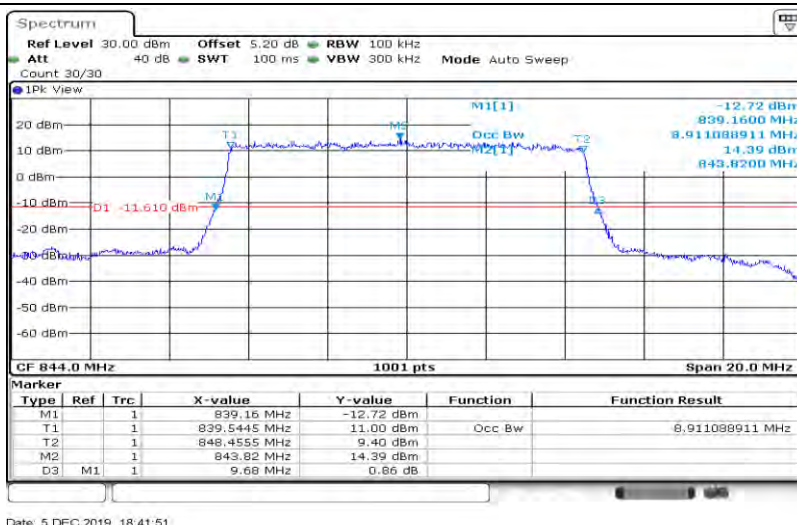


Band5-10MHz-QPSK-20600-50RB#0-8.911

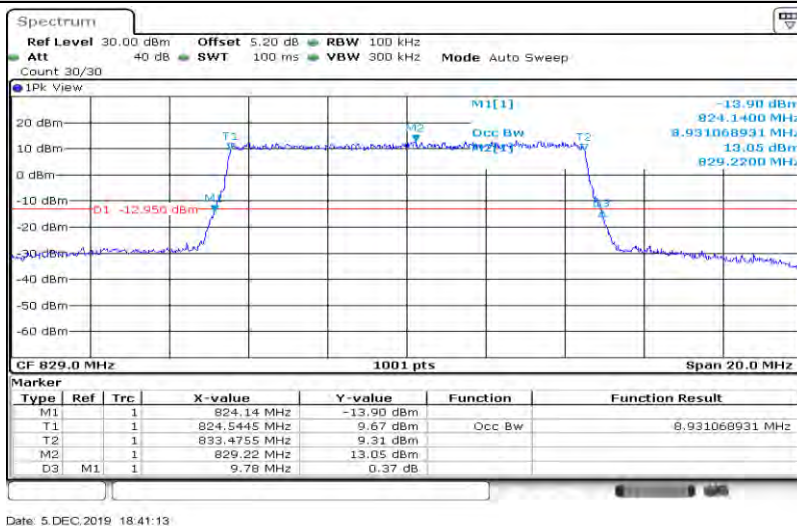


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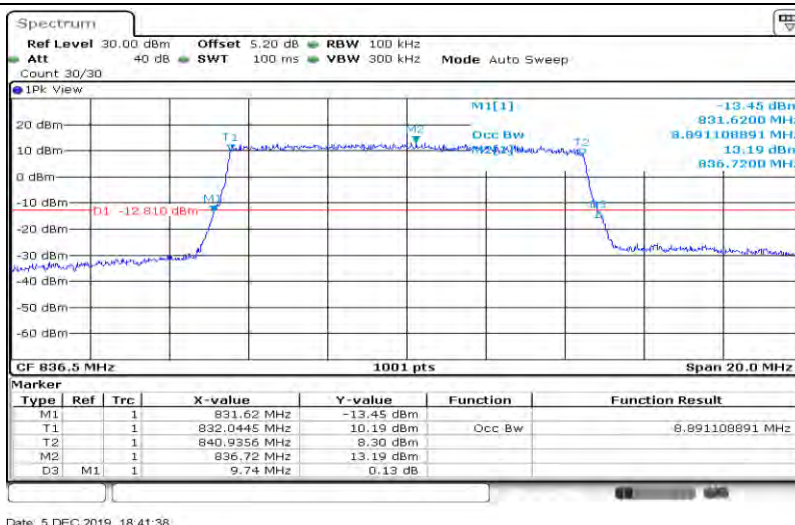
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Band5-10MHz-16QAM-20450-50RB#0-8.931



Band5-10MHz-16QAM-20525-50RB#0-8.891



Band5-10MHz-16QAM-20600-50RB#0-8.911



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5. Band Edge Compliance

5.1. Test Plots

Band5-1.4MHz-QPSK-20407-1RB#0



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



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



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



Band5-1.4MHz-16QAM-20407-1RB#0



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



Band5-1.4MHz-16QAM-20643-1RB#5



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



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





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



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



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



Band5-3MHz-16QAM-20415-1RB#0





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



Band5-3MHz-16QAM-20635-1RB#14





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



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



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



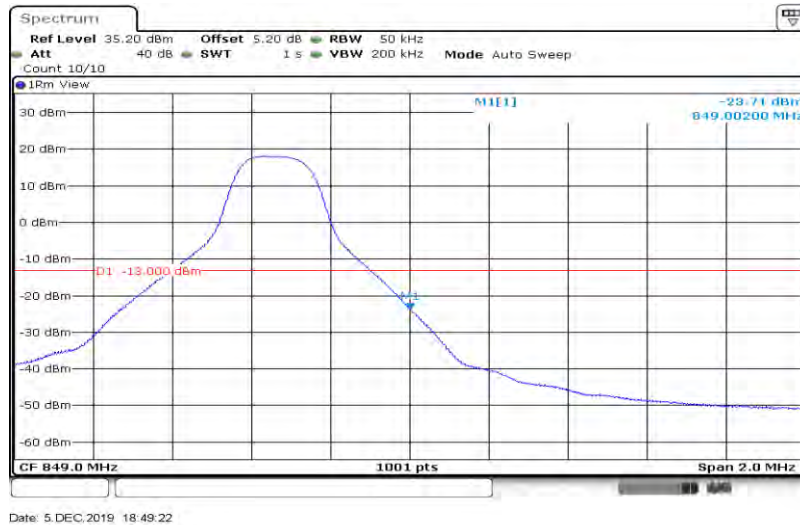
Band5-5MHz-QPSK-20625-1RB#24



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



Band5-5MHz-16QAM-20425-1RB#0





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



Band5-5MHz-16QAM-20625-1RB#24





Band5-5MHz-16QAM-20625-25RB#0



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





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



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



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



Band5-10MHz-16QAM-20450-1RB#0





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



Band5-10MHz-16QAM-20600-1RB#49



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Date: 5 DEC 2019 18:52:33

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



Date: 5 DEC 2019 18:53:12



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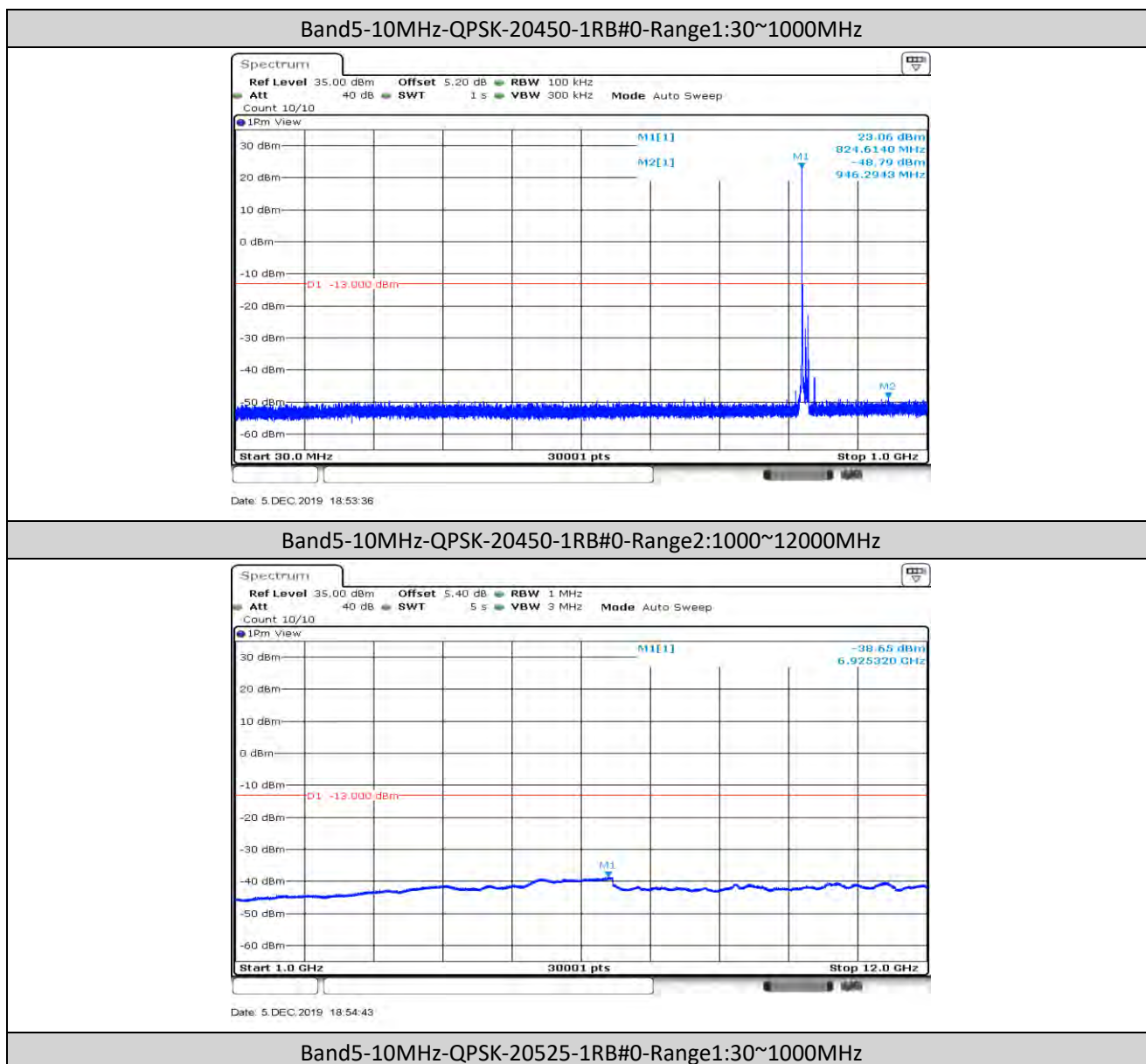
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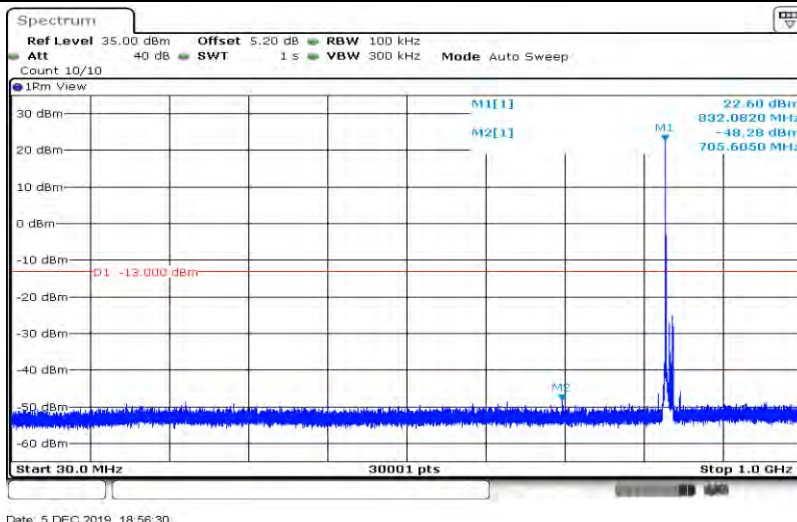
6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (\text{Span} / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

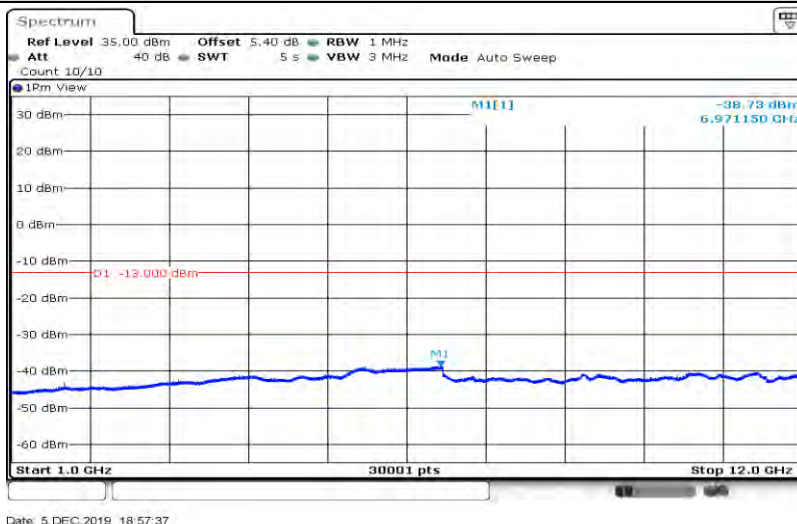
Remark2: only the worst case data displayed in this report.

6.1. Test Plots





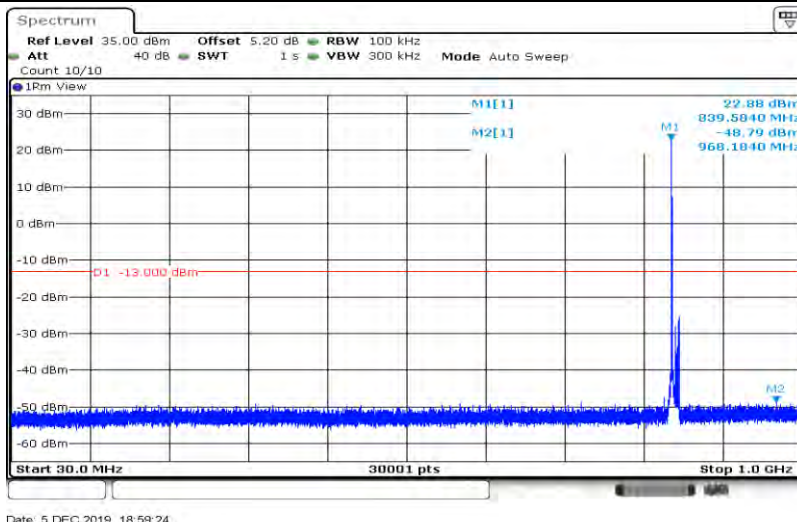
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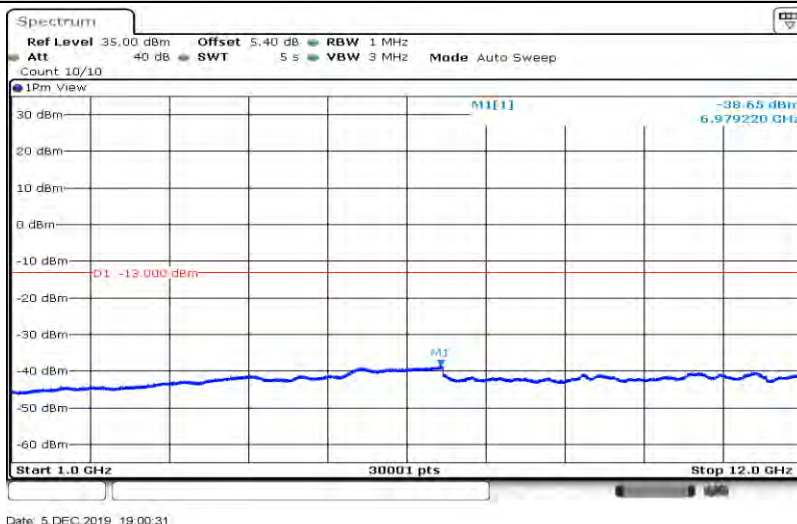
Band5-10MHz-QPSK-20600-1RB#0-Range1:30~1000MHz



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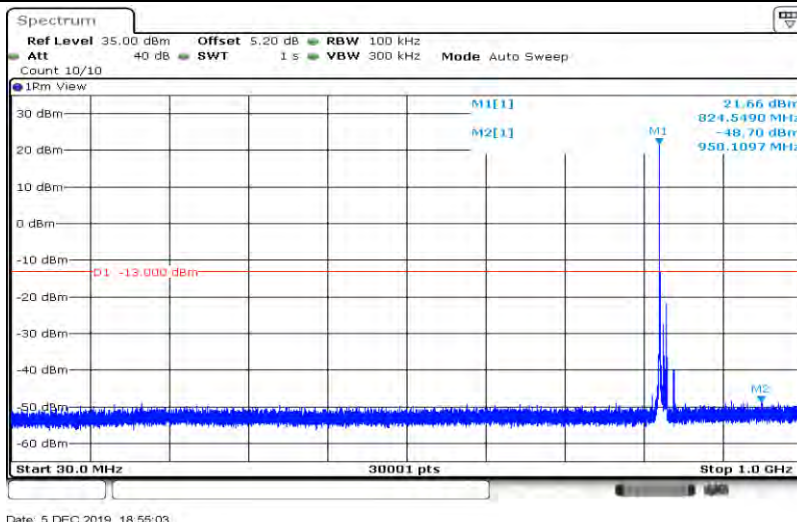


Band5-10MHz-16QAM-20450-1RB#0-Range1:30~1000MHz

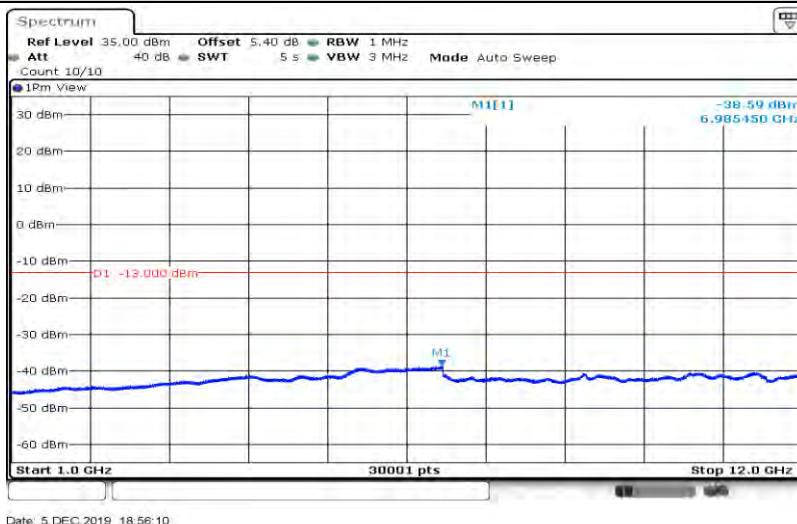


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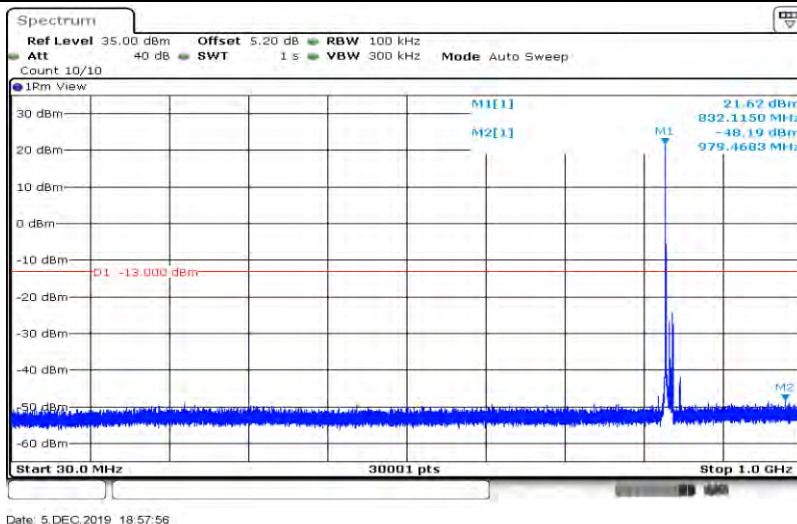


Band5-10MHz-16QAM-20525-1RB#0-Range1:30~1000MHz

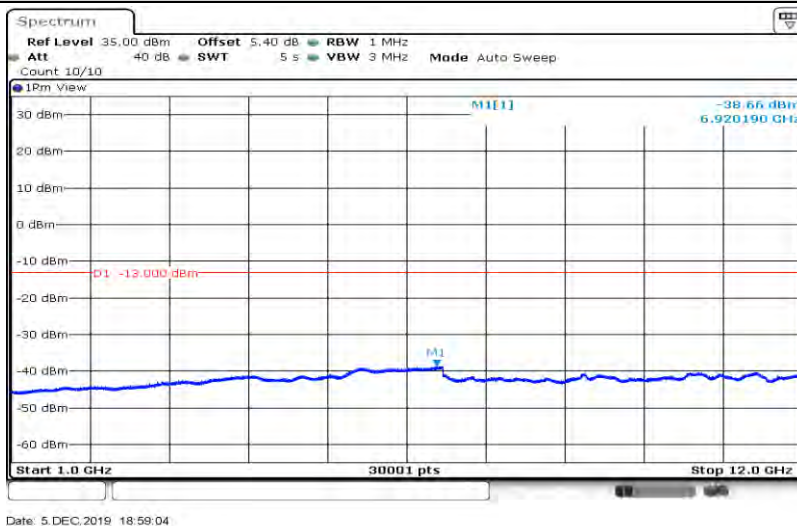


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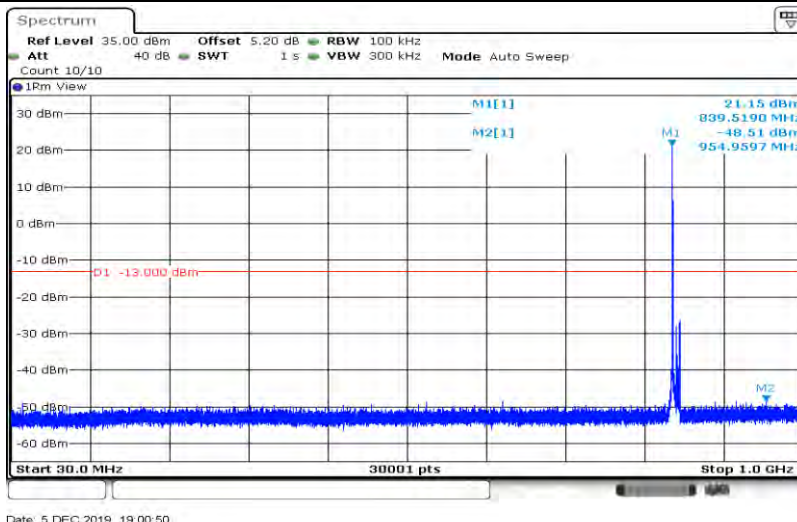


Band5-10MHz-16QAM-20525-1RB#0-Range2:1000~12000MHz



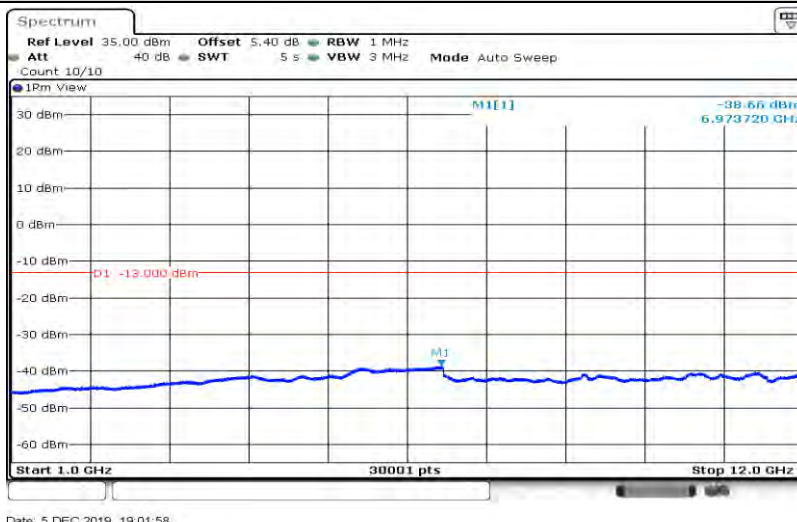
Band5-10MHz-16QAM-20600-1RB#0-Range1:30~1000MHz





Date: 5 DEC 2019 19:00:50

Band5-10MHz-16QAM-20600-1RB#0-Range2:1000~12000MHz



Date: 5 DEC 2019 19:01:58



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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
109.3015	-61.04	-13.00	48.04	174	277	Vertical
1664.1328	-58.02	-13.00	45.02	158	44	Vertical
2496.2993	-47.89	-13.00	34.89	169	69	Vertical
3328.2109	-49.84	-13.00	36.84	178	170	Vertical
4160.4387	-56.03	-13.00	43.03	152	136	Vertical
8320.7774	-46.34	-13.00	33.34	169	98	Vertical
43.4352	-62.88	-13.00	49.88	271	288	Horizontal
1664.1328	-60.19	-13.00	47.19	254	17	Horizontal
2496.2993	-43.83	-13.00	30.83	263	29	Horizontal
3328.2109	-43.52	-13.00	30.52	241	15	Horizontal
4160.6387	-53.72	-13.00	40.72	285	153	Horizontal
8320.7774	-50.48	-13.00	37.48	296	51	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
110.5625	-63.15	-13.00	50.15	187	21	Vertical
1648.9298	-58.93	-13.00	45.93	175	271	Vertical
2473.8948	-49.82	-13.00	36.82	162	64	Vertical
3298.4099	-52.48	-13.00	39.48	165	156	Vertical
4123.2374	-58.27	-13.00	45.27	198	156	Vertical
8246.3749	-50.29	-13.00	37.29	175	92	Vertical
40.9130	-63.12	-13.00	50.12	271	226	Horizontal
1648.9298	-57.40	-13.00	44.40	241	117	Horizontal
2473.8948	-47.27	-13.00	34.27	265	32	Horizontal
3298.2099	-47.52	-13.00	34.52	284	32	Horizontal
4122.8374	-53.95	-13.00	40.95	259	162	Horizontal
8827.3942	-51.36	-13.00	38.36	271	131	Horizontal



7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
110.0290	-62.84	-13.00	49.84	184	13	Vertical
1679.3359	-56.54	-13.00	43.54	175	226	Vertical
2518.7037	-53.54	-13.00	40.54	162	57	Vertical
3358.2119	-55.90	-13.00	42.90	198	149	Vertical
7371.7457	-53.15	-13.00	40.15	177	46	Vertical
8774.7925	-52.04	-13.00	39.04	165	13	Vertical
41.8346	-62.71	-13.00	49.71	271	322	Horizontal
1679.3359	-51.45	-13.00	38.45	241	268	Horizontal
2518.7037	-49.49	-13.00	36.49	259	35	Horizontal
3358.2119	-51.13	-13.00	38.13	265	20	Horizontal
4198.0399	-57.09	-13.00	44.09	247	156	Horizontal
8873.1958	-52.30	-13.00	39.30	263	287	Horizontal

Remark:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.
- 3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.



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8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	VL	NT	0.50	0.000603	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VN	NT	-1.10	-0.001327	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VH	NT	-1.60	-0.001930	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-1.00	-0.001195	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-0.90	-0.001076	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-0.50	-0.000598	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VL	NT	-1.30	-0.001540	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VN	NT	-1.50	-0.001777	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VH	NT	0.00	0.000000	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VL	NT	-0.40	-0.000483	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VN	NT	0.40	0.000483	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VH	NT	0.50	0.000603	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VL	NT	-1.60	-0.001913	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VN	NT	0.60	0.000717	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VH	NT	-0.80	-0.000956	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VL	NT	0.40	0.000474	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VN	NT	-0.70	-0.000829	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VH	NT	0.50	0.000592	±2.5	PASS

8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	NV	-30	-2.10	-0.002533	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	-0.40	-0.000483	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	0.50	0.000603	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	-0.20	-0.000241	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	-0.20	-0.000241	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	0.10	0.000121	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	40	-0.40	-0.000483	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	-1.30	-0.001568	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	0.50	0.000598	±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	0	-1.30	-0.001554	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-1.50	-0.001793	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-1.50	-0.001793	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-0.90	-0.001076	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-0.80	-0.000956	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-1.10	-0.001315	±2.5	PASS



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Band5	10MHz	QPSK	20600	50RB#0	NV	-30	-1.10	-0.001303	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	-0.50	-0.000592	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	-1.30	-0.001540	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	-0.40	-0.000474	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	-0.60	-0.000711	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	30	-1.20	-0.001422	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	40	-1.20	-0.001422	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	0.30	0.000355	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-30	-0.40	-0.000483	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-20	-1.20	-0.001448	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	0	-1.40	-0.001689	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	10	-0.60	-0.000724	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	20	-1.50	-0.001809	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	30	0.00	0.000000	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	40	-0.50	-0.000603	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	50	1.30	0.001568	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-30	-0.90	-0.001076	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-20	0.80	0.000956	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	0	0.10	0.000120	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	10	-1.10	-0.001315	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	20	-0.50	-0.000598	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	30	-0.20	-0.000239	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	40	-0.40	-0.000478	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	50	0.50	0.000598	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-30	-0.50	-0.000592	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-20	-1.00	-0.001185	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	0	0.00	0.000000	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	10	-0.40	-0.000474	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	20	-0.90	-0.001066	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	30	-1.40	-0.001659	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	40	0.00	0.000000	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	50	-0.20	-0.000237	±2.5	PASS



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