



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	23.29	19.74	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.52	19.97	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.30	19.75	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	23.39	19.84	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	23.67	20.12	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	23.52	19.97	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.41	18.86	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.36	19.81	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.38	19.83	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.38	19.83	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	23.42	19.87	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	23.66	20.11	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	23.46	19.91	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.43	18.88	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.09	19.54	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.39	19.84	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.30	19.75	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	23.54	19.99	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	23.45	19.90	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	23.43	19.88	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.52	18.97	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	21.94	18.39	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.46	18.91	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	21.80	18.25	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	22.66	19.11	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	22.61	19.06	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	22.60	19.05	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.59	18.04	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	21.93	18.38	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	21.84	18.29	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	21.75	18.20	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	22.50	18.95	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	22.49	18.94	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	22.40	18.85	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.44	17.89	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.55	19.00	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	21.95	18.40	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	21.80	18.25	38.45	PASS



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Band5	1.4MHz	16QAM	20643	3RB#0	22.47	18.92	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	22.45	18.90	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	22.53	18.98	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.50	17.95	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.46	19.91	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.50	19.95	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.37	19.82	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#0	22.40	18.85	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#4	22.54	18.99	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#7	22.44	18.89	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.51	18.96	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.60	20.05	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.09	19.54	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.44	19.89	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#7	22.48	18.93	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#0	22.35	18.80	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#4	22.36	18.81	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.44	18.89	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.31	19.76	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.61	20.06	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.16	19.61	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#0	22.70	19.15	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#7	22.42	18.87	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#4	22.39	18.84	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.48	18.93	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.28	18.73	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	21.92	18.37	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.00	18.45	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#7	21.33	17.78	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#4	21.37	17.82	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#0	21.55	18.00	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.47	17.92	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	21.92	18.37	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	21.98	18.43	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	21.78	18.23	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#7	21.40	17.85	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#0	21.20	17.65	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#4	21.29	17.74	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.40	17.85	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	21.92	18.37	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.05	18.50	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.43	18.88	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#0	21.58	18.03	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#4	21.21	17.66	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#7	21.60	18.05	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.41	17.86	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.45	19.90	38.45	PASS



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Band5	5MHz	QPSK	20425	1RB#12	23.50	19.95	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.37	19.82	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#0	22.22	18.67	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#6	22.45	18.90	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#13	22.53	18.98	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.36	18.81	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.41	19.86	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.40	19.85	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.09	19.54	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#0	22.28	18.73	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#6	22.35	18.80	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#13	22.36	18.81	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.31	18.76	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.29	19.74	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.41	19.86	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.38	19.83	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#0	22.52	18.97	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#6	22.55	19.00	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#13	22.38	18.83	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.33	18.78	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	21.86	18.31	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.00	18.45	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	21.83	18.28	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#6	21.44	17.89	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#0	21.38	17.83	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#13	21.34	17.79	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.53	17.98	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	21.76	18.21	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.02	18.47	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	21.71	18.16	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#13	21.30	17.75	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#0	21.30	17.75	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#6	21.18	17.63	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.37	17.82	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.49	18.94	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	21.89	18.34	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	21.84	18.29	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#0	21.21	17.66	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#6	21.47	17.92	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#13	21.35	17.80	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.46	17.91	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.20	19.65	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.56	20.01	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.49	19.94	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#0	22.46	18.91	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#12	22.61	19.06	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#25	22.41	18.86	38.45	PASS



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Band5	10MHz	QPSK	20450	50RB#0	22.50	18.95	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.36	19.81	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.23	19.68	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.64	20.09	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#25	22.39	18.84	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#0	22.54	18.99	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#12	22.41	18.86	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.39	18.84	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.59	20.04	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.31	19.76	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.23	19.68	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#0	22.41	18.86	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#25	22.43	18.88	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#12	22.50	18.95	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.47	18.92	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	21.92	18.37	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	21.88	18.33	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.17	18.62	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#25	21.48	17.93	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#12	21.56	18.01	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#0	21.48	17.93	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.39	17.84	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.26	18.71	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.21	18.66	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	21.81	18.26	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#25	21.47	17.92	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#0	21.32	17.77	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#12	21.38	17.83	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.36	17.81	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	21.95	18.40	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	21.80	18.25	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	21.87	18.32	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#0	21.17	17.62	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#12	21.33	17.78	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#25	21.40	17.85	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.54	17.99	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 [dBd]

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



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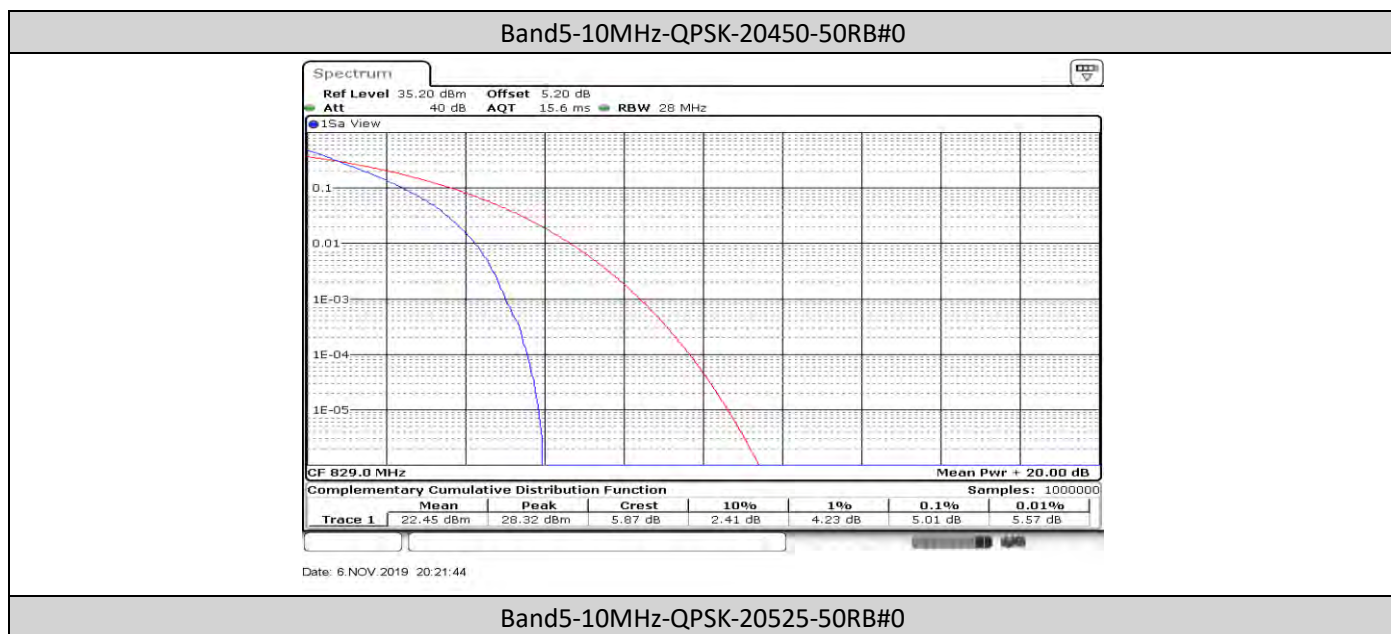


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	5.01	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.30	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.16	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.80	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.14	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.03	13	PASS

2.2. Test Plots





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



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



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

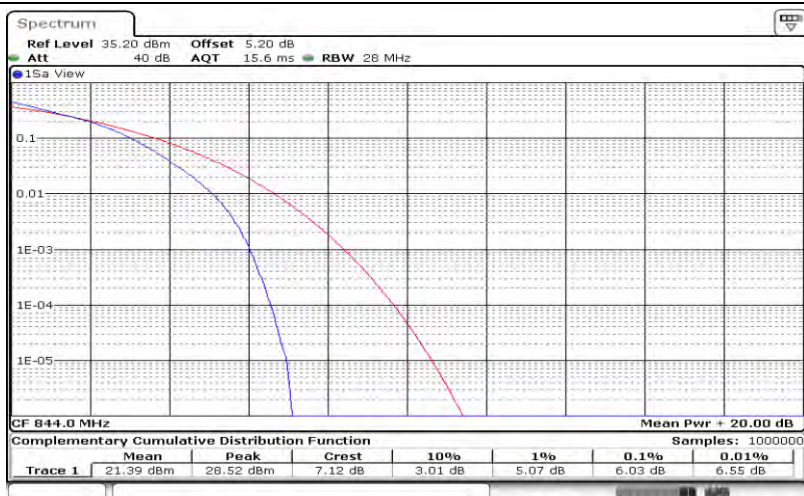


Band5-10MHz-16QAM-20600-50RB#0



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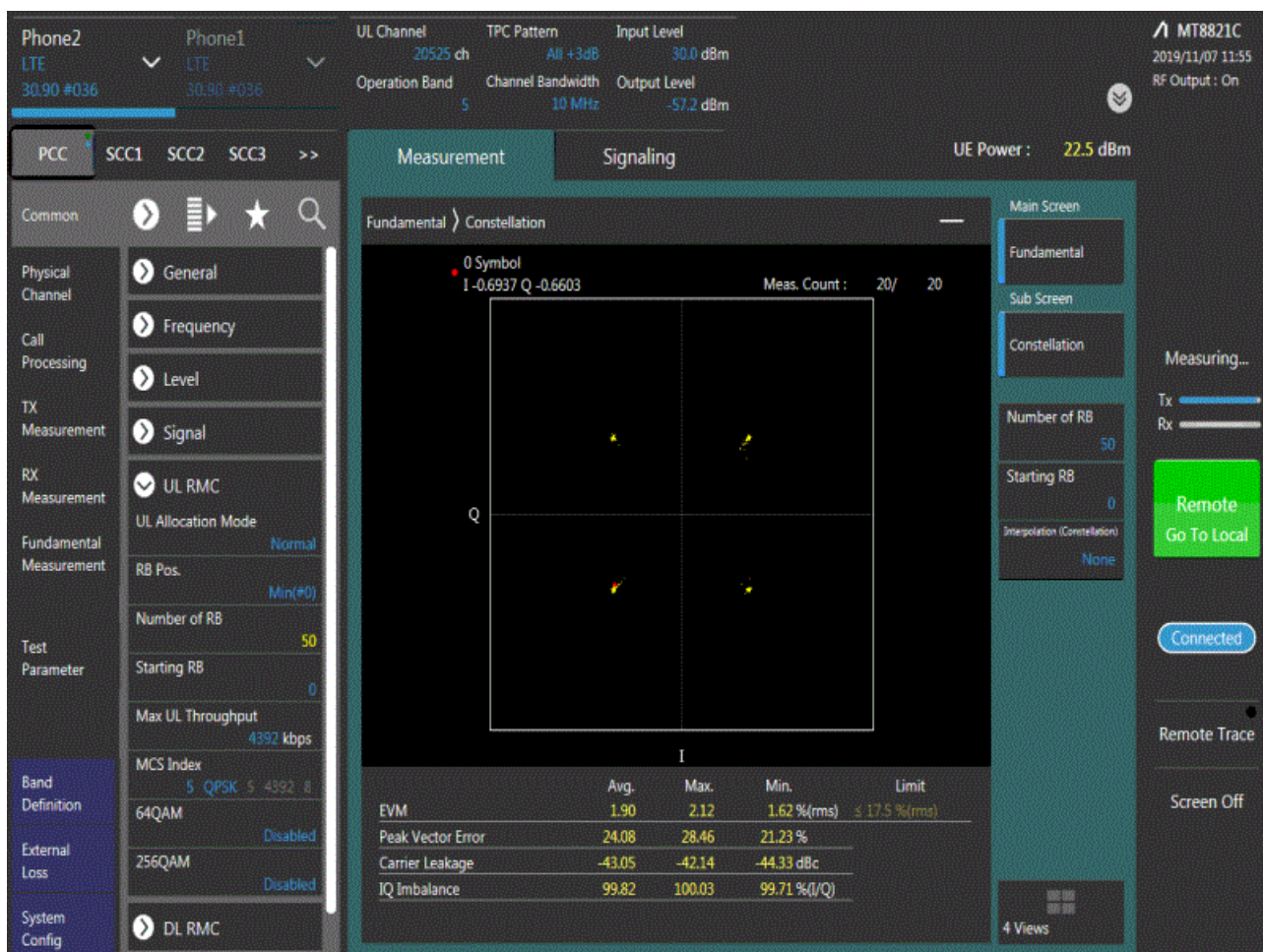
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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

3.1.1. Test Channel = MCH



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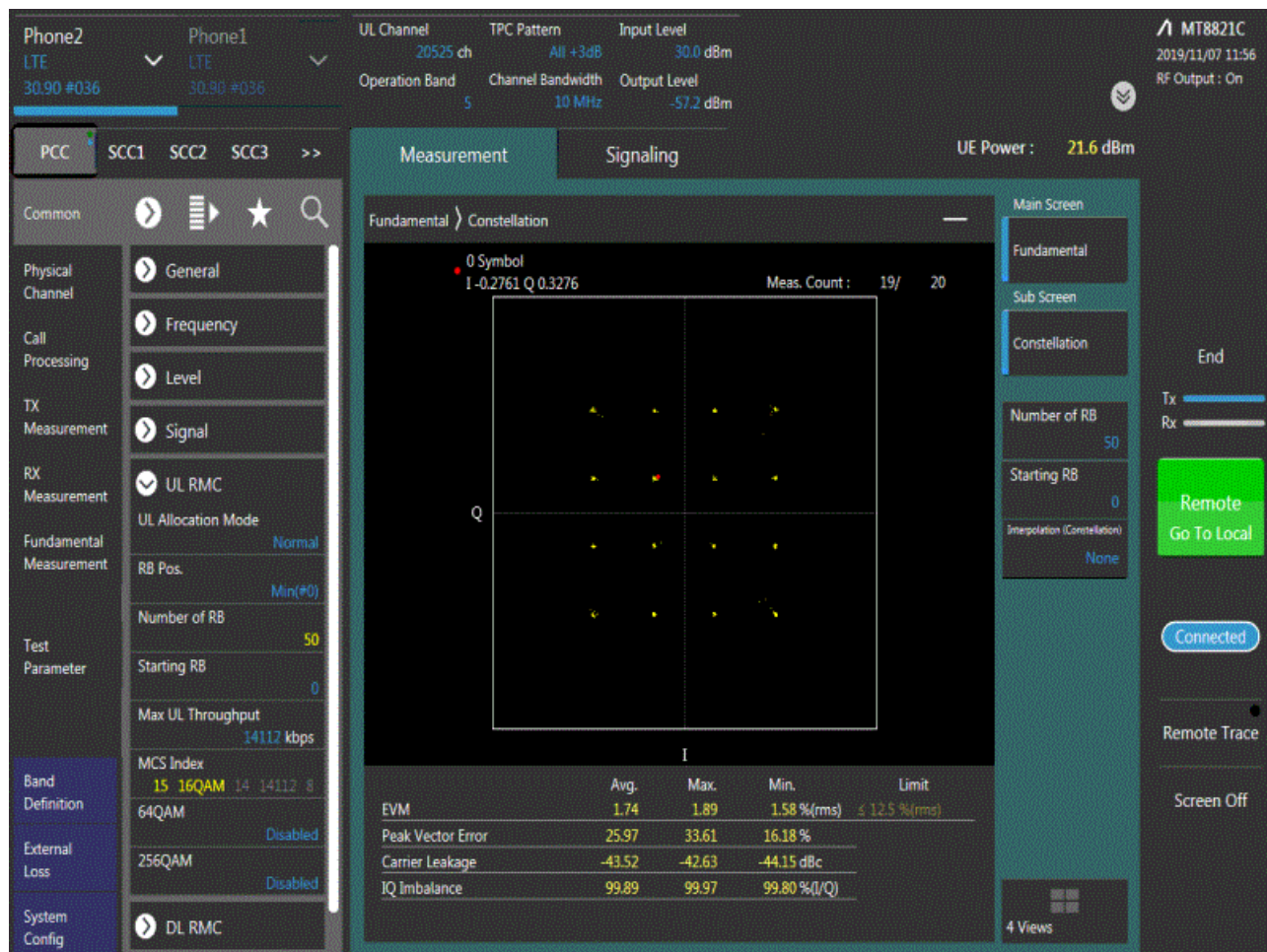
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3.2. Test Mode = LTE /TM2 10MHz

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	1.097	1.317	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.097	1.314	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.094	1.302	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.097	1.299	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.091	1.275	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.100	1.308	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.703	2.958	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.697	2.994	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.697	2.976	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.697	2.982	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.697	2.982	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.697	2.982	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.486	4.940	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.476	4.910	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.486	4.950	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.466	4.880	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.476	4.960	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.486	4.940	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.931	9.700	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.931	9.700	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.931	9.760	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.911	9.740	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.931	9.780	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.911	9.660	PASS



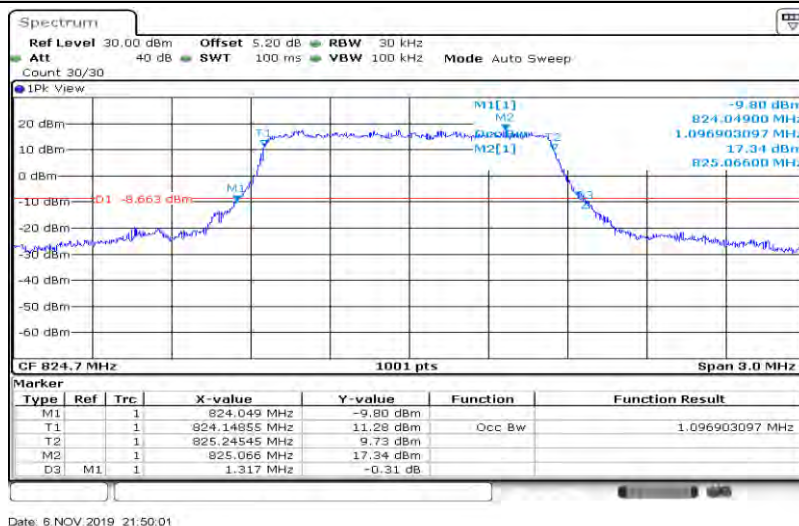
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4.2. Test Plots

Band5-1.4MHz-QPSK-20407-6RB#0-1.097



Band5-1.4MHz-QPSK-20525-6RB#0-1.097



Band5-1.4MHz-QPSK-20643-6RB#0-1.094

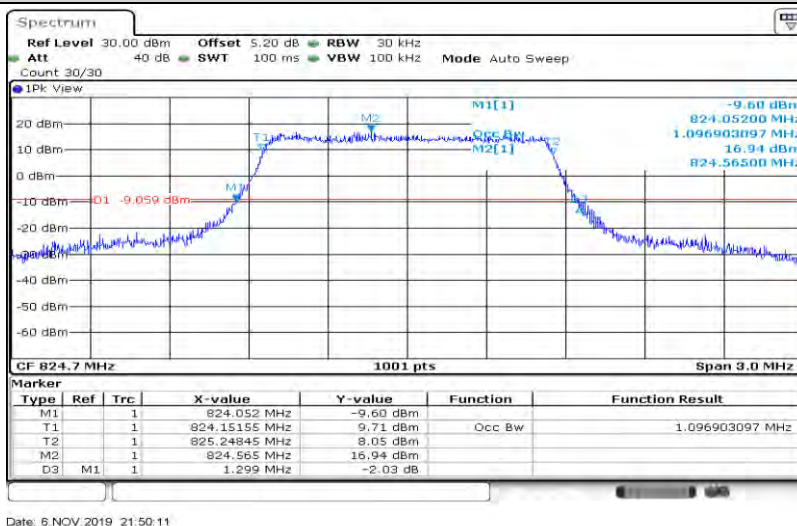


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Band5-1.4MHz-16QAM-20407-6RB#0-1.097

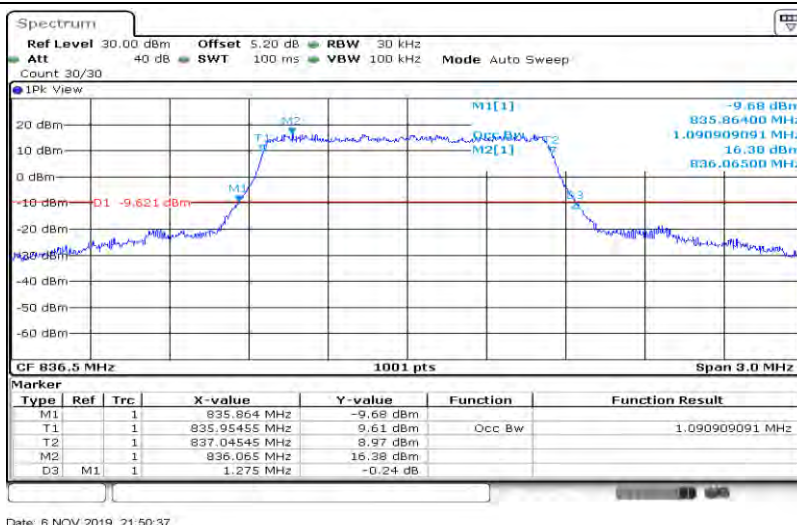


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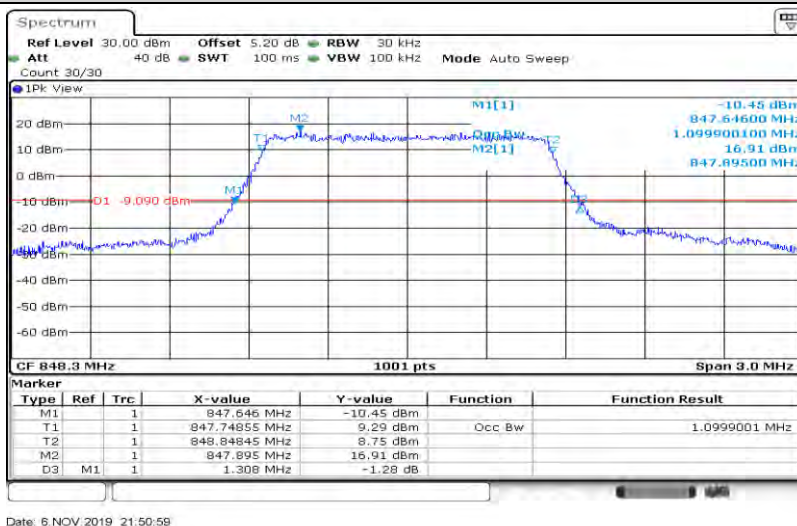


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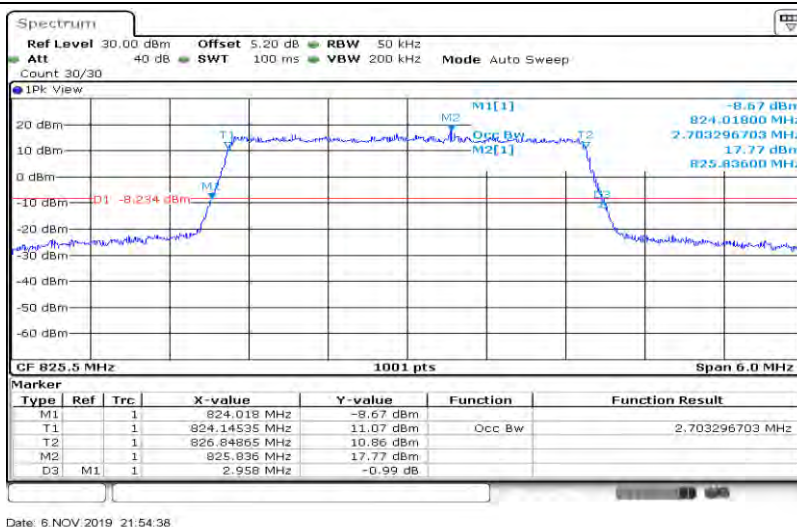


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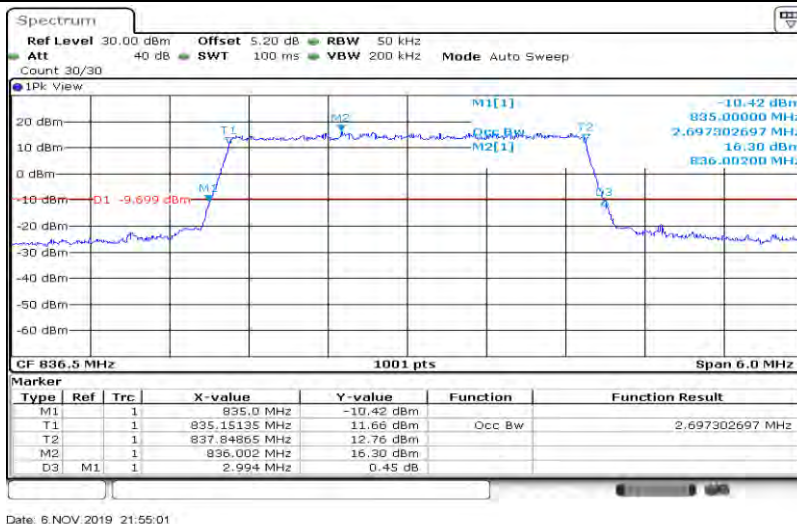


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Band5-3MHz-QPSK-20525-15RB#0-2.697

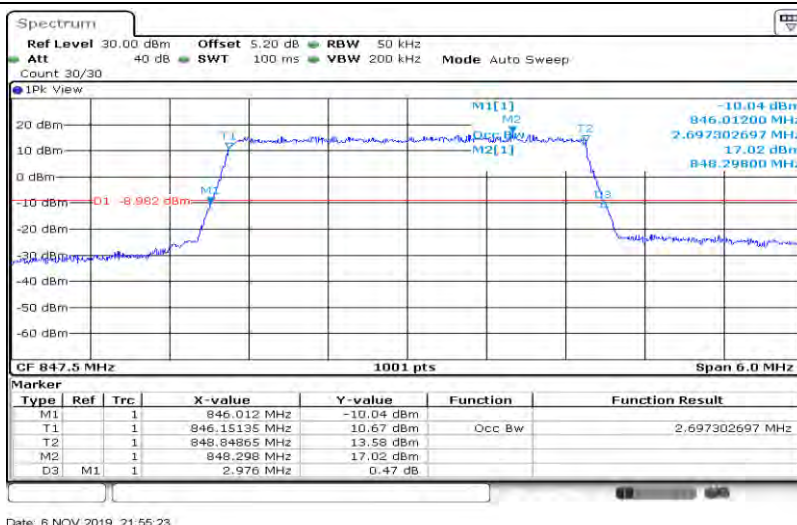


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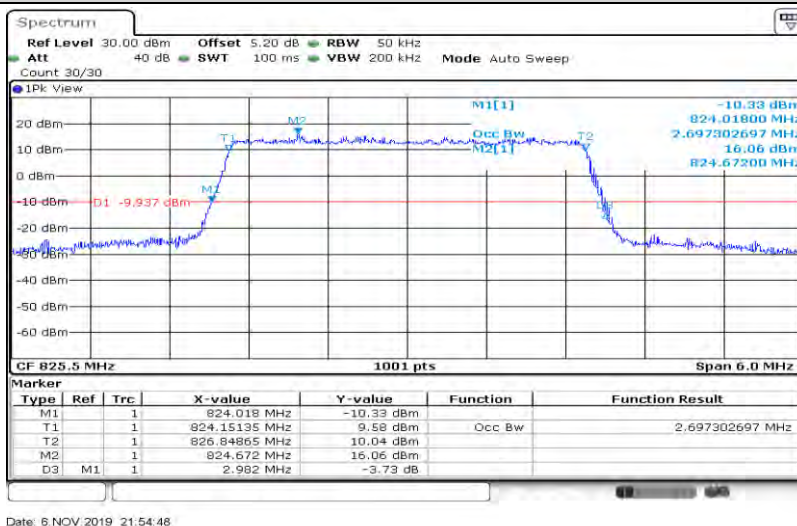


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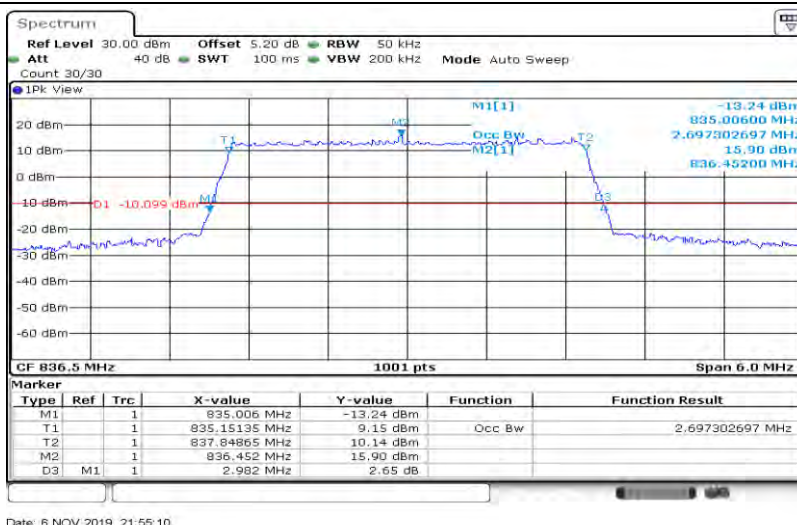


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Band5-3MHz-16QAM-20635-15RB#0-2.697



Band5-5MHz-QPSK-20425-25RB#0-4.486





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



Band5-5MHz-QPSK-20625-25RB#0-4.486

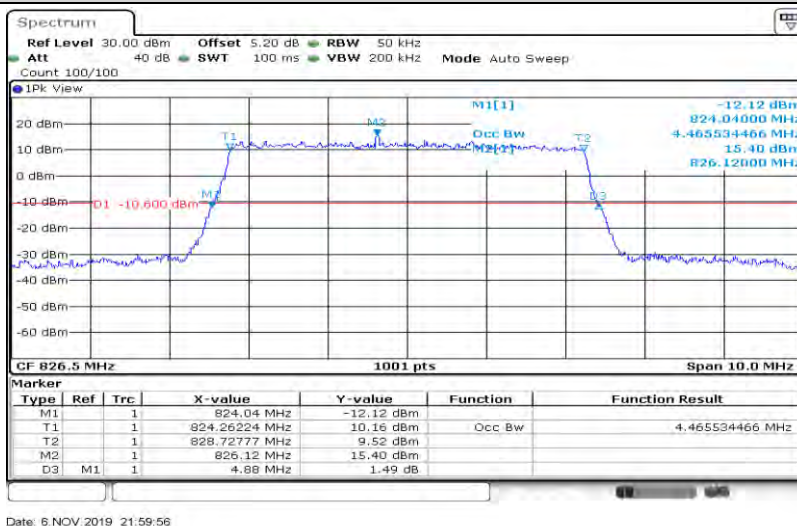


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Band5-5MHz-16QAM-20425-25RB#0-4.466



Band5-5MHz-16QAM-20525-25RB#0-4.476



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

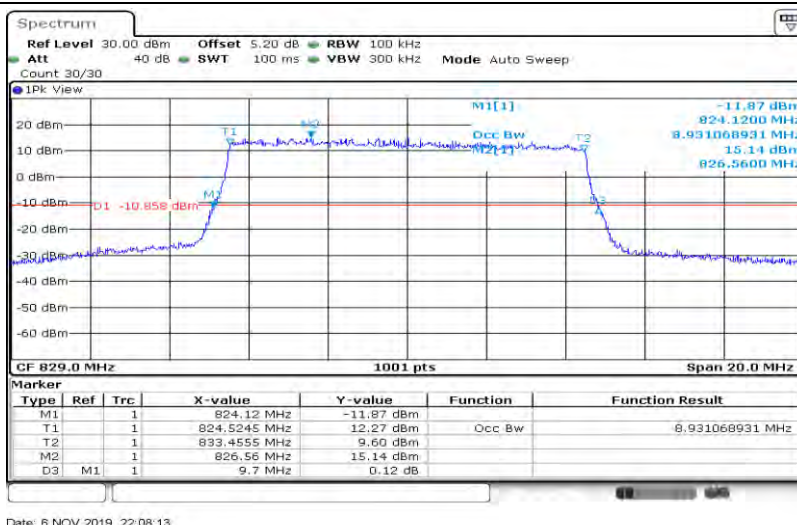


Band5-10MHz-QPSK-20450-50RB#0-8.931



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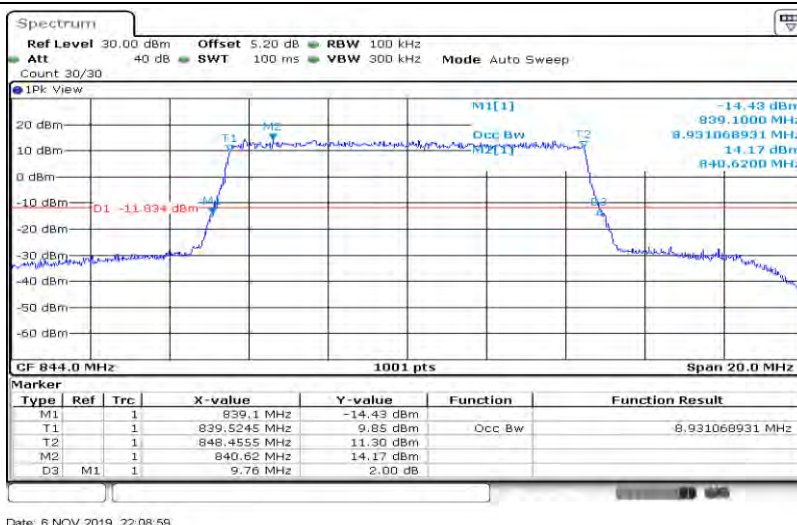


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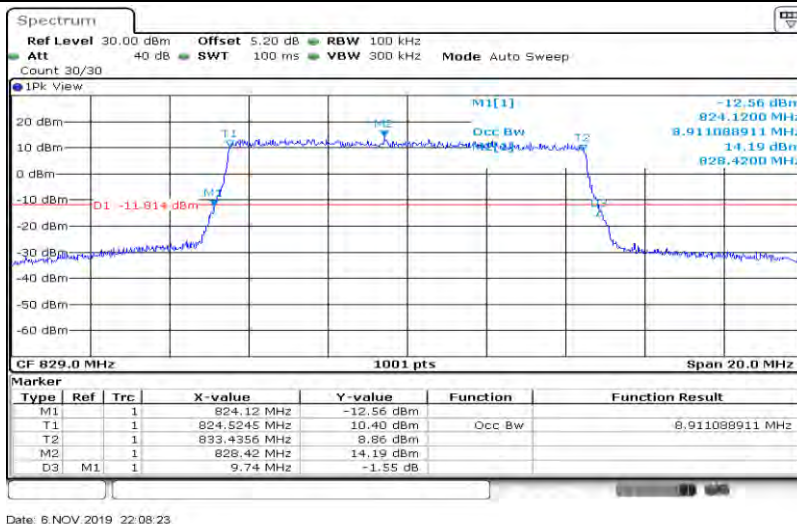


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Band5-10MHz-16QAM-20450-50RB#0-8.911

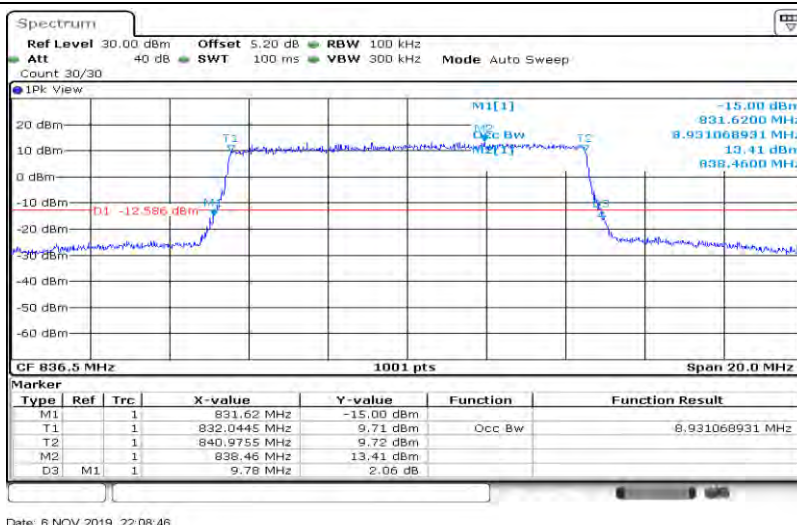


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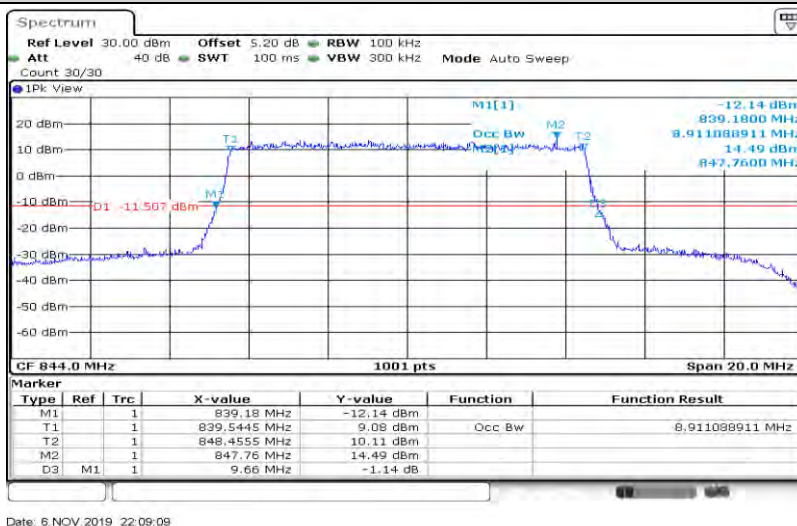


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Band5-10MHz-16QAM-20600-50RB#0-8.911

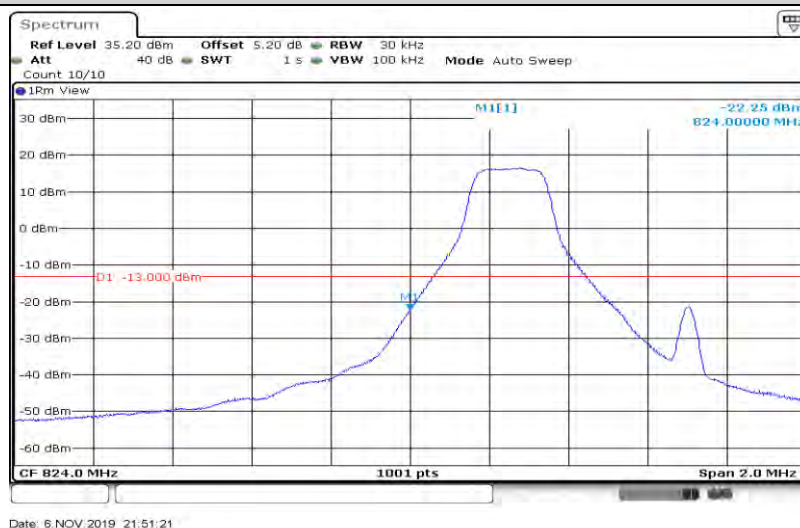




5. Band Edge Compliance

5.1. Test Plots

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



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

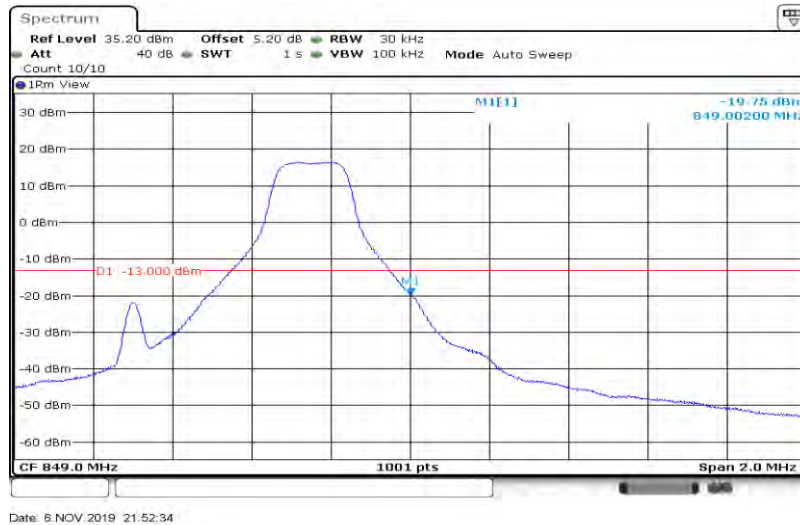


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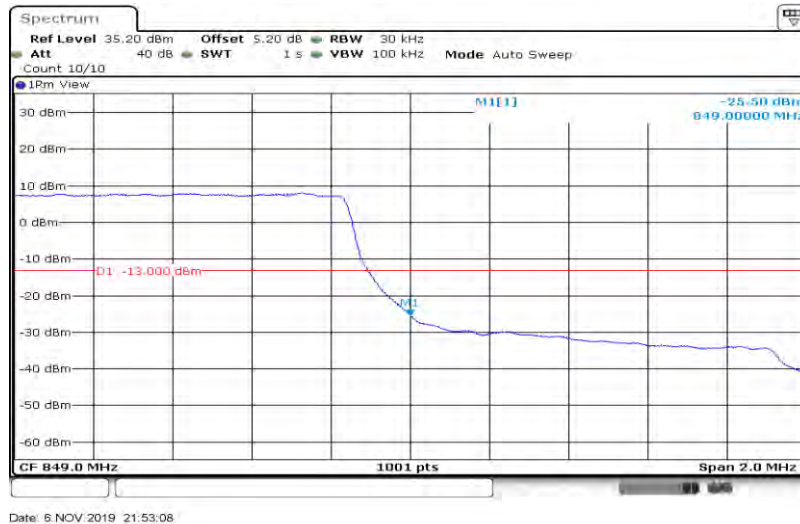


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Band5-1.4MHz-QPSK-20643-6RB#0

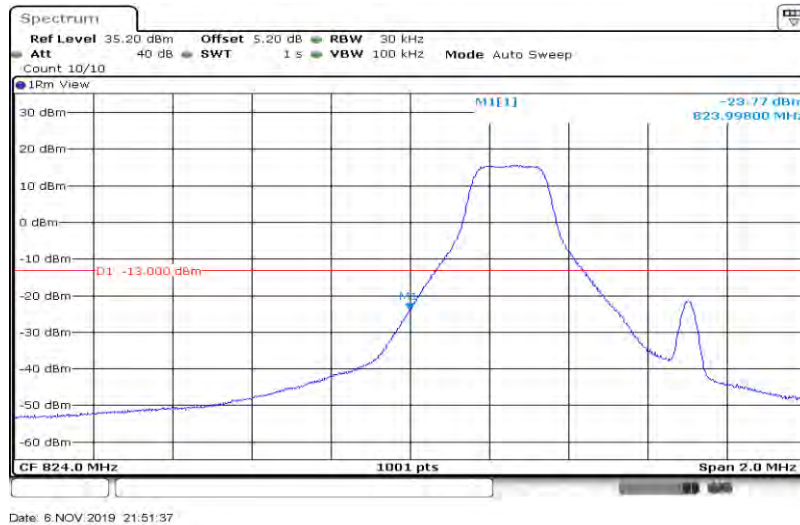


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Band5-1.4MHz-16QAM-20407-6RB#0



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

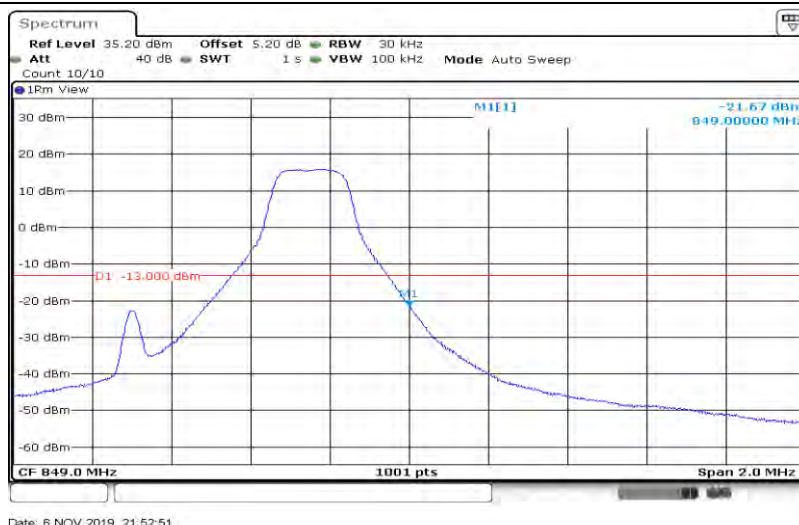


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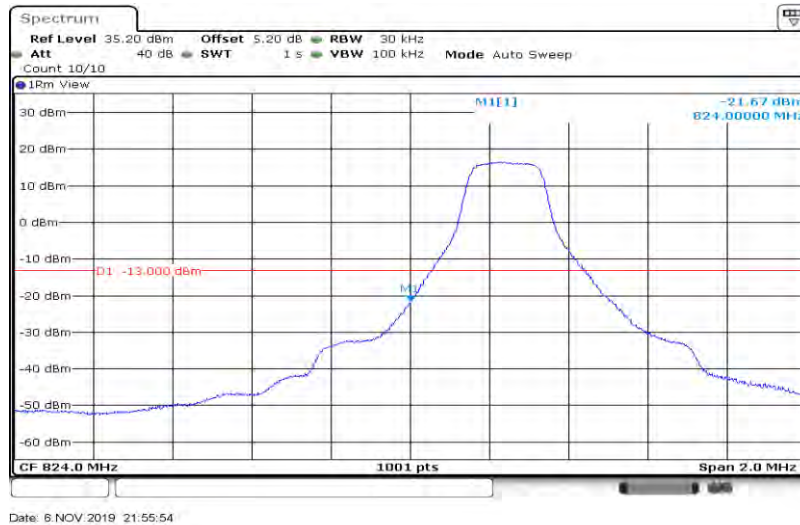


Band5-3MHz-QPSK-20415-1RB#0



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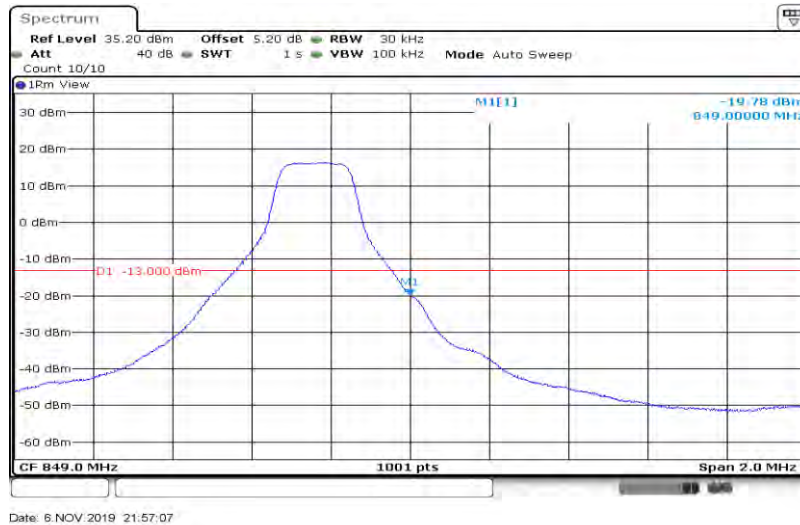


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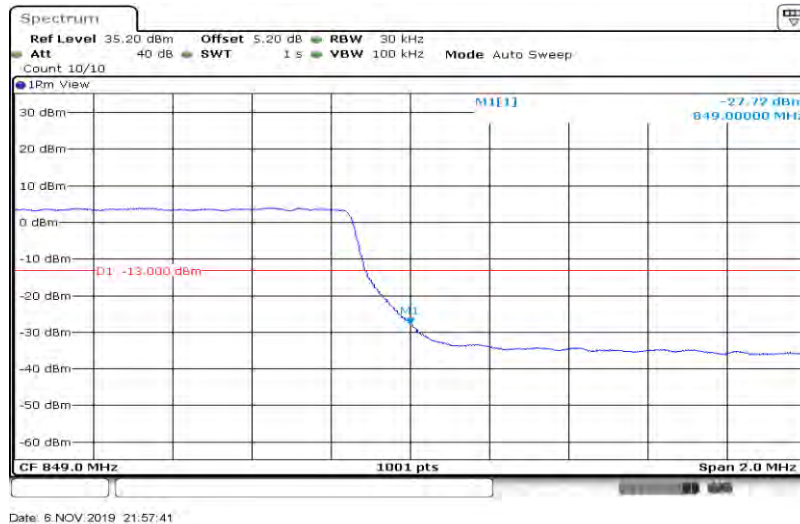


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Band5-3MHz-QPSK-20635-15RB#0



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



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Date: 6 NOV 2019 22:01:31

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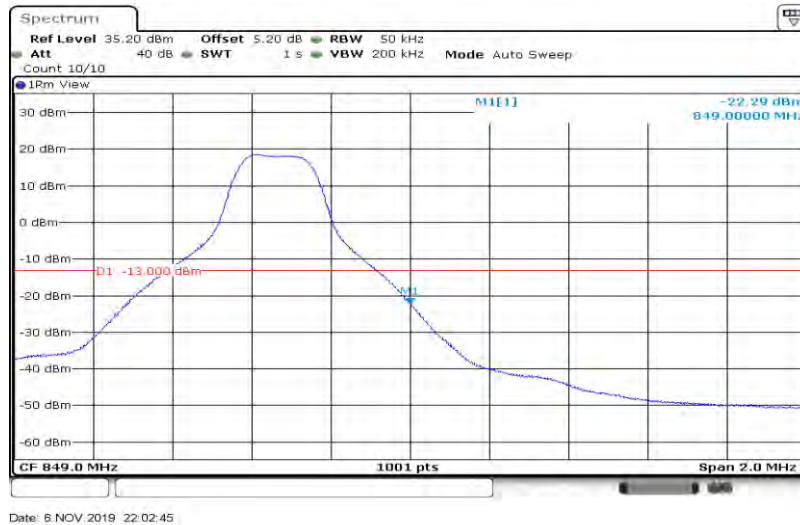
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Band5-5MHz-QPSK-20625-1RB#24



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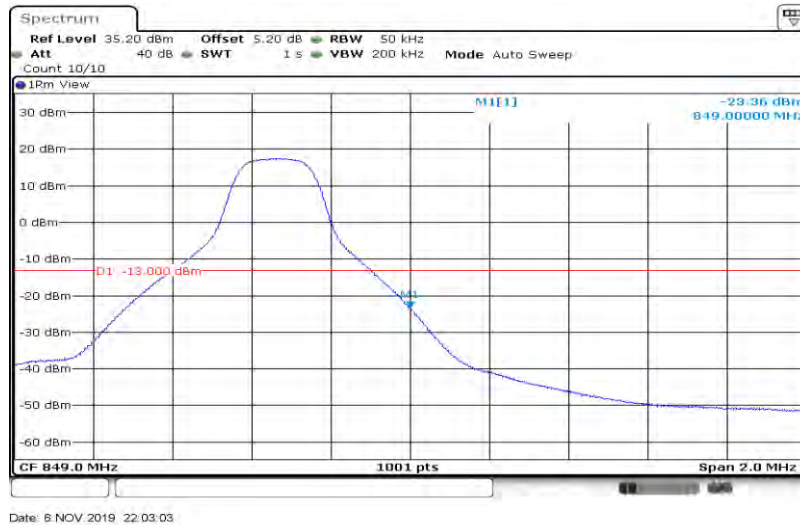
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Band5-5MHz-16QAM-20625-25RB#0



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



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Date: 6 NOV. 2019 22:09:31

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



Date: 6 NOV. 2019 22:10:05

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



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



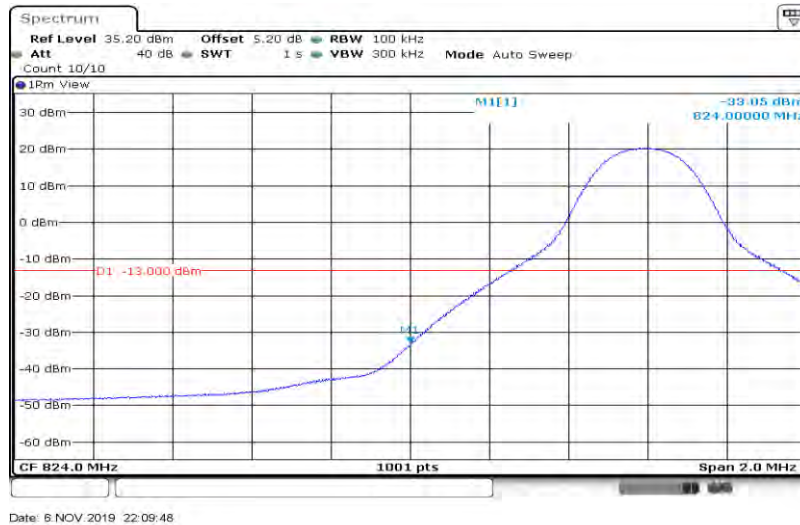
Band5-10MHz-16QAM-20450-1RB#0



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



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



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Date: 6 NOV. 2019 22:11:03

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



Date: 6 NOV. 2019 22:11:38



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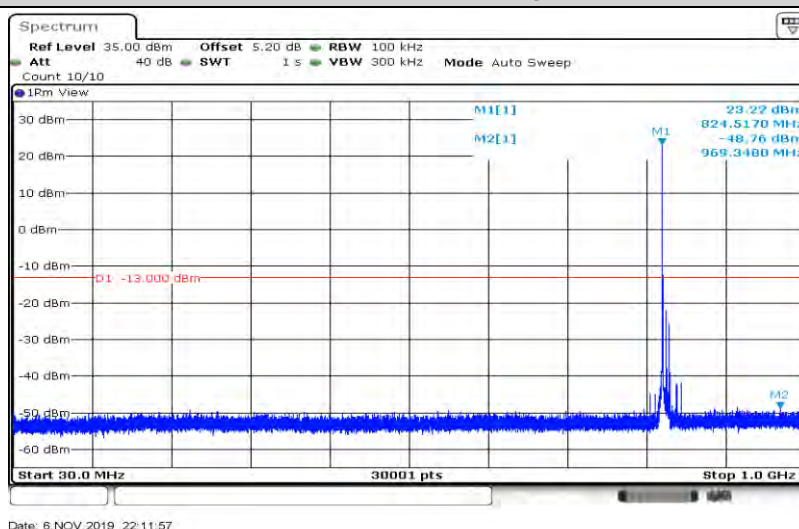
6. Spurious Emission at Antenna Terminal

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.

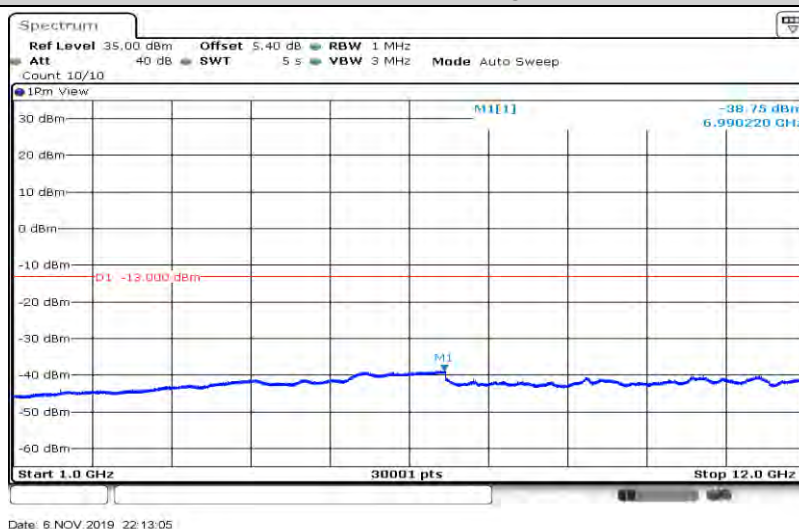
Remark2: only the worst case data displayed in this report.

6.1. Test Plots

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



Band5-10MHz-QPSK-20450-1RB#0-Range2:1000~12000MHz

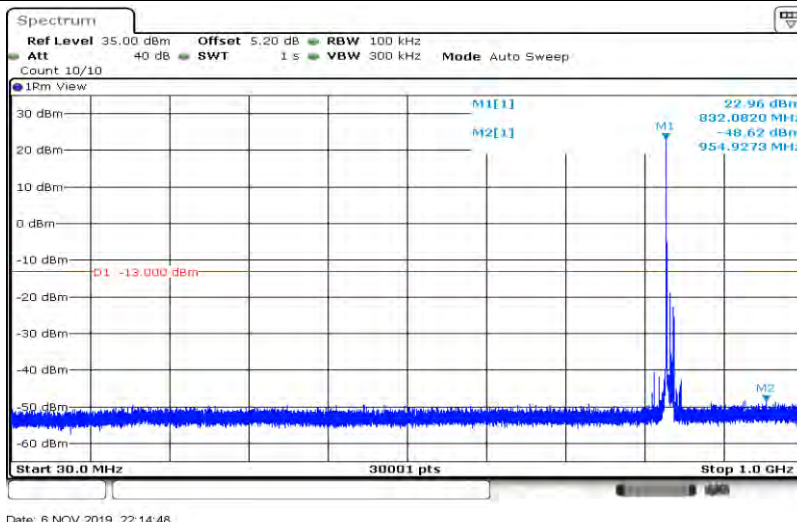


Band5-10MHz-QPSK-20525-1RB#0-Range1:30~1000MHz

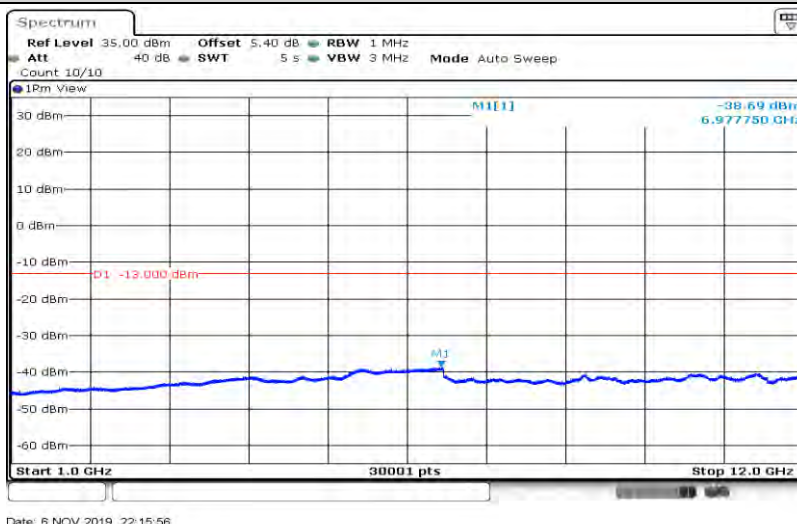


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Band5-10MHz-QPSK-20525-1RB#0-Range2:1000~12000MHz

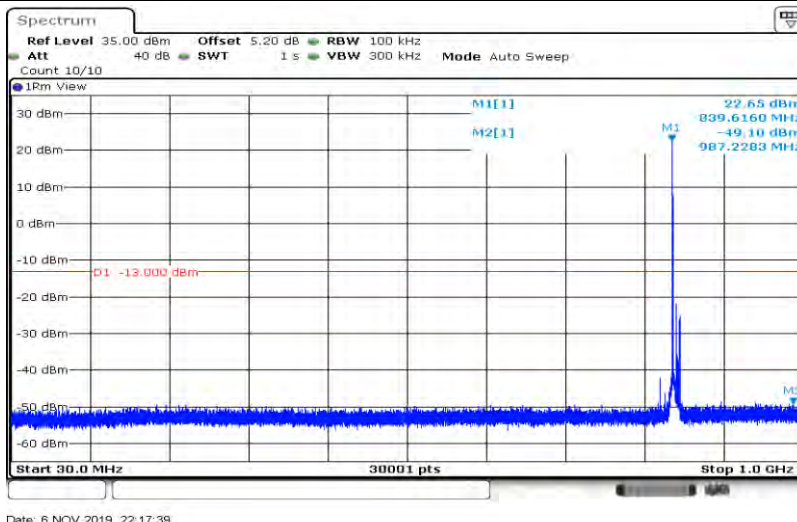


Band5-10MHz-QPSK-20600-1RB#0-Range1:30~1000MHz

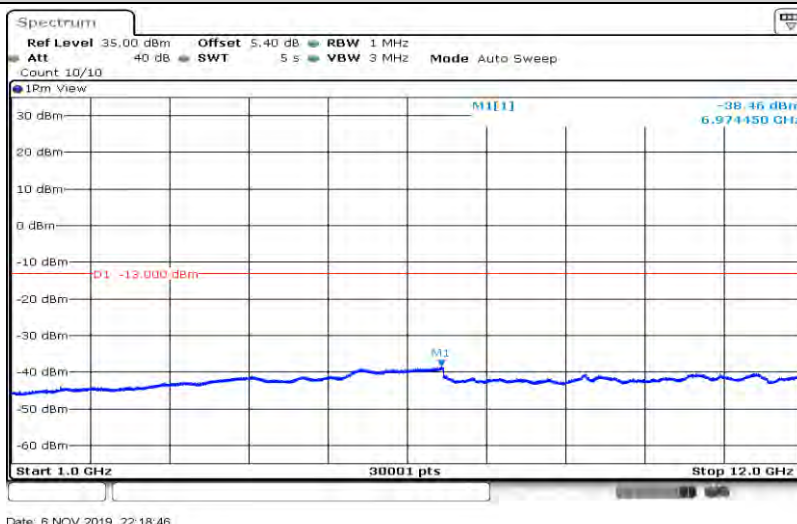


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Band5-10MHz-QPSK-20600-1RB#0-Range2:1000~12000MHz

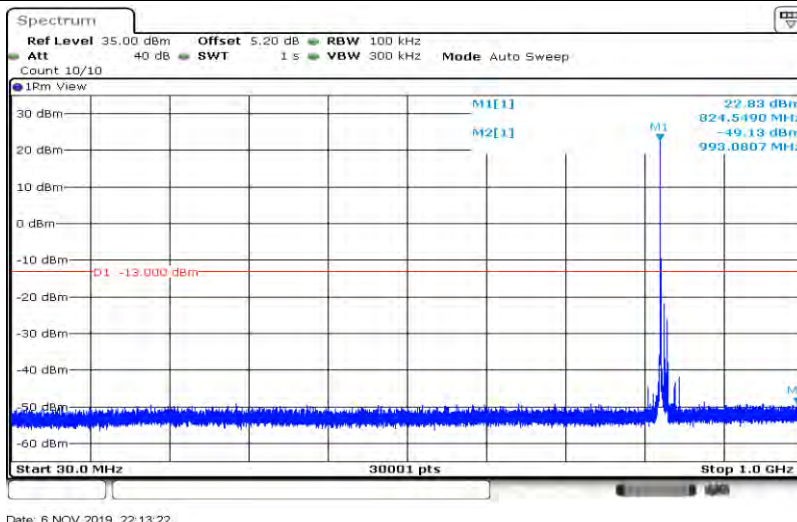


Band5-10MHz-16QAM-20450-1RB#0-Range1:30~1000MHz

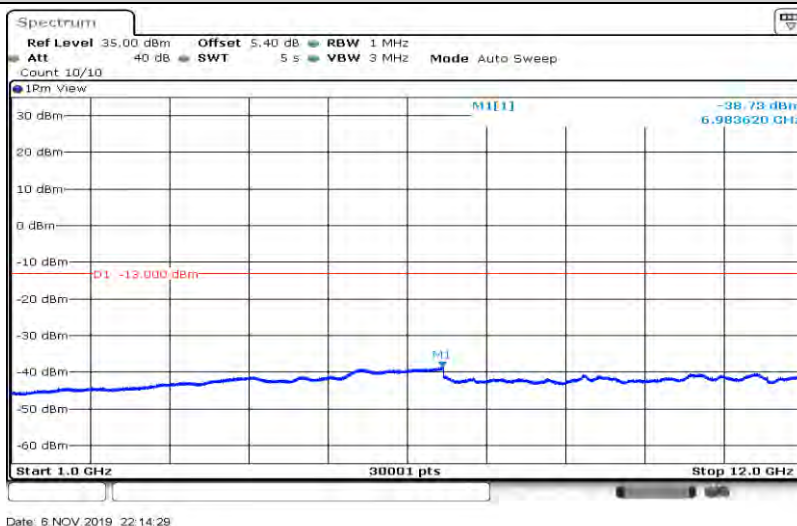


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Band5-10MHz-16QAM-20450-1RB#0-Range2:1000~12000MHz

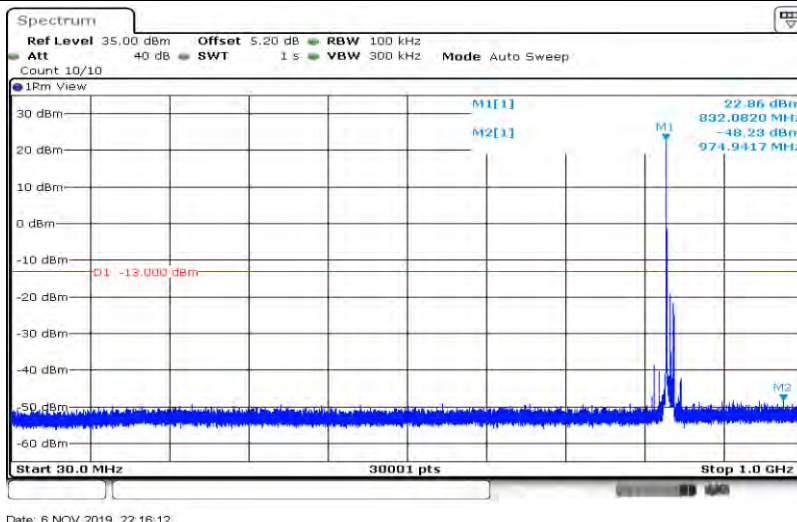


Band5-10MHz-16QAM-20525-1RB#0-Range1:30~1000MHz

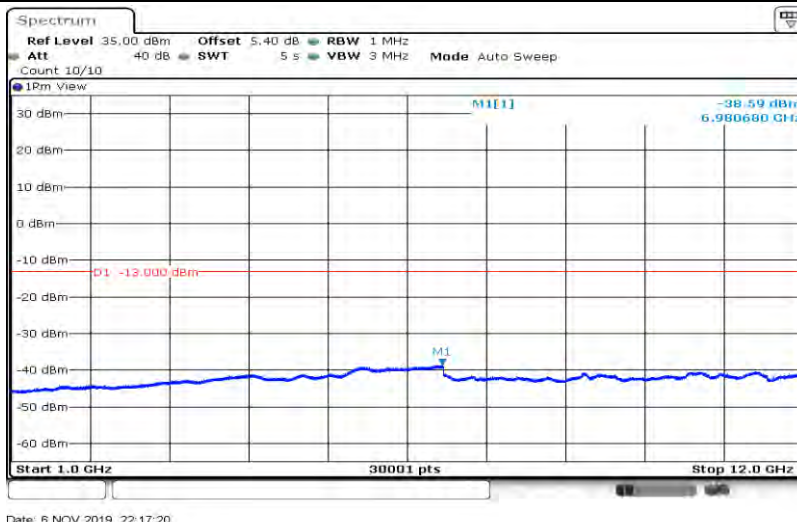


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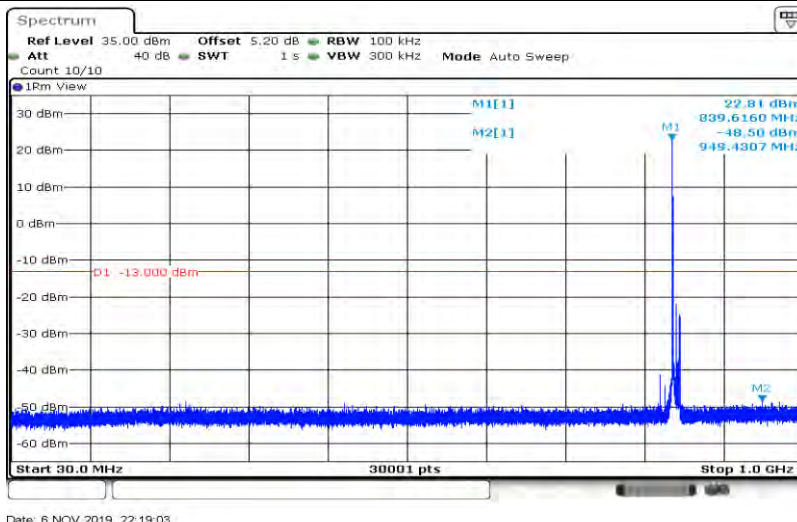


Band5-10MHz-16QAM-20600-1RB#0-Range1:30~1000MHz

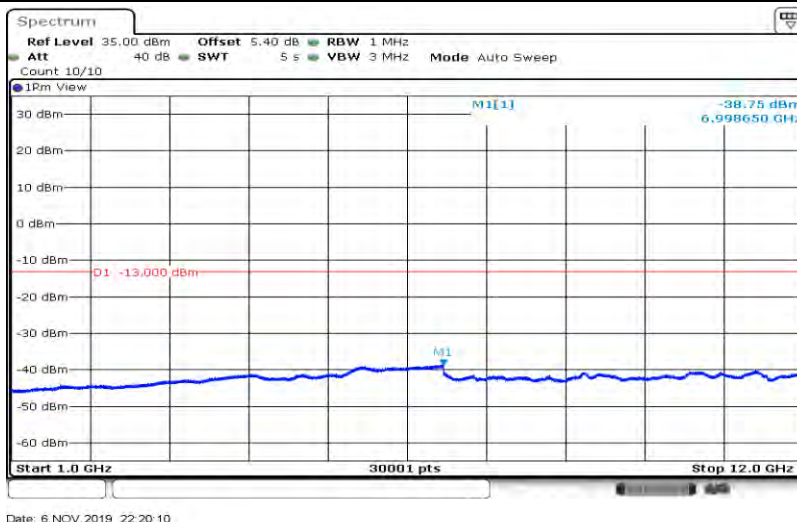


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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.7219	-70.02	-13.00	57.02	Vertical
110.1745	-62.52	-13.00	49.52	Vertical
722.9056	-59.90	-13.00	46.90	Vertical
1764.1528	-54.36	-13.00	41.36	Vertical
2440.2881	-33.59	-13.00	20.59	Vertical
8576.5859	-50.50	-13.00	37.50	Vertical
44.3567	-62.68	-13.00	49.68	Horizontal
235.6503	-65.72	-13.00	52.72	Horizontal
712.3806	-59.39	-13.00	46.39	Horizontal
1752.5505	-56.81	-13.00	43.81	Horizontal
2440.2881	-33.68	-13.00	20.68	Horizontal
8640.3880	-50.75	-13.00	37.75	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
32.4251	-69.06	-13.00	56.06	Vertical
110.2230	-62.08	-13.00	49.08	Vertical
775.0458	-59.24	-13.00	46.24	Vertical
1763.7528	-53.12	-13.00	40.12	Vertical
2449.4899	-38.79	-13.00	25.79	Vertical
8621.7874	-50.14	-13.00	37.14	Vertical
44.1627	-61.36	-13.00	48.36	Horizontal
227.7444	-65.39	-13.00	52.39	Horizontal
757.2454	-59.39	-13.00	46.39	Horizontal
1751.3503	-50.96	-13.00	37.96	Horizontal
2454.6909	-36.36	-13.00	23.36	Horizontal
8776.1925	-50.69	-13.00	37.69	Horizontal



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7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
32.5221	-69.82	-13.00	56.82	Vertical
117.0134	-62.76	-13.00	49.76	Vertical
728.3864	-59.05	-13.00	46.05	Vertical
1754.1508	-57.35	-13.00	44.35	Vertical
2479.8960	-55.47	-13.00	42.47	Vertical
8663.9888	-50.03	-13.00	37.03	Vertical
44.8902	-62.75	-13.00	49.75	Horizontal
232.7401	-65.15	-13.00	52.15	Horizontal
713.0597	-59.74	-13.00	46.74	Horizontal
1750.9502	-58.43	-13.00	45.43	Horizontal
2448.6897	-54.86	-13.00	41.86	Horizontal
8757.7919	-50.36	-13.00	37.36	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	-1.10	-0.001327	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VN	NT	-0.80	-0.000965	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VH	NT	-1.50	-0.001809	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-1.50	-0.001793	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-2.00	-0.002391	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-0.90	-0.001076	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VL	NT	-0.10	-0.000118	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VN	NT	-2.10	-0.002488	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VH	NT	-1.10	-0.001303	±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	-0.70	-0.000844	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VH	NT	0.30	0.000362	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VL	NT	0.10	0.000120	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VN	NT	-0.10	-0.000120	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VH	NT	-1.30	-0.001554	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VL	NT	-1.40	-0.001659	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VN	NT	0.10	0.000118	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VH	NT	-0.30	-0.000355	±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	-1.30	-0.001568	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	0.00	0.000000	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	-1.10	-0.001327	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	1.00	0.001206	±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	-1.00	-0.001206	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	40	-1.10	-0.001327	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	-0.30	-0.000362	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	0.00	0.000000	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-0.40	-0.000478	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-0.90	-0.001076	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-1.20	-0.001435	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-0.60	-0.000717	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-1.00	-0.001195	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-1.60	-0.001913	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-2.10	-0.002510	±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	-0.70	-0.000829	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	-0.80	-0.000948	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	-1.30	-0.001540	±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	-2.20	-0.002607	±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	-1.30	-0.001540	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-30	-1.40	-0.001689	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-20	-0.60	-0.000724	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	0	-0.30	-0.000362	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	10	-0.30	-0.000362	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	20	0.80	0.000965	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	30	-1.00	-0.001206	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	40	-1.10	-0.001327	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	50	-0.40	-0.000483	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-30	0.50	0.000598	±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	0	-0.60	-0.000717	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	10	-0.80	-0.000956	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	20	-0.90	-0.001076	±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	40	-0.60	-0.000717	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	50	-0.90	-0.001076	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-30	-0.40	-0.000474	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-20	0.30	0.000355	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	0	-0.50	-0.000592	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	10	-0.50	-0.000592	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	20	0.50	0.000592	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	30	0.40	0.000474	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	40	-0.90	-0.001066	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	50	-0.60	-0.000711	±2.5	PASS



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