



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	23.12	17.77	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.30	17.95	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.12	17.77	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	23.21	17.86	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	23.23	17.88	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	23.30	17.95	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.33	16.98	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.02	17.67	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.22	17.87	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.07	17.72	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	23.15	17.80	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	23.39	18.04	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	23.14	17.79	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.15	16.80	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.00	17.65	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.35	18.00	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.12	17.77	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	23.17	17.82	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	23.25	17.90	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	23.15	17.80	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.34	16.99	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.49	17.14	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.42	17.07	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.45	17.10	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	22.07	16.72	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	22.34	16.99	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	22.24	16.89	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.39	16.04	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.27	16.92	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.50	17.15	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.50	17.15	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	22.17	16.82	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	22.33	16.98	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	22.16	16.81	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.36	16.01	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.28	16.93	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.46	17.11	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.20	16.85	38.45	PASS



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Band5	1.4MHz	16QAM	20643	3RB#0	21.93	16.58	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	22.21	16.86	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	22.08	16.73	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.27	15.92	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.19	17.84	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.45	18.10	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.14	17.79	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#0	22.36	17.01	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#4	22.34	16.99	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#7	22.31	16.96	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.29	16.94	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.24	17.89	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.38	18.03	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.12	17.77	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#7	22.25	16.90	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#0	22.27	16.92	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#4	22.23	16.88	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.24	16.89	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.08	17.73	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.22	17.87	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.15	17.80	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#0	22.19	16.84	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#7	22.21	16.86	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#4	22.24	16.89	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.28	16.93	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.44	17.09	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.42	17.07	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.47	17.12	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#7	21.25	15.90	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#4	21.31	15.96	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#0	21.36	16.01	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.34	15.99	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.37	17.02	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.44	17.09	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.14	16.79	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#7	21.30	15.95	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#0	21.16	15.81	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#4	21.18	15.83	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.17	15.82	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.41	17.06	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.45	17.10	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.08	16.73	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#0	21.26	15.91	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#4	21.30	15.95	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#7	21.14	15.79	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.11	15.76	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.22	17.87	38.45	PASS



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Band5	5MHz	QPSK	20425	1RB#12	23.21	17.86	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.19	17.84	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#0	22.30	16.95	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#6	22.33	16.98	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#13	22.26	16.91	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.35	17.00	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	22.98	17.63	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.15	17.80	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.00	17.65	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#0	22.31	16.96	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#6	22.17	16.82	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#13	22.20	16.85	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.36	17.01	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	22.94	17.59	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.11	17.76	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	22.95	17.60	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#0	22.20	16.85	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#6	22.28	16.93	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#13	22.14	16.79	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.21	16.86	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	21.96	16.61	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.47	17.12	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.41	17.06	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#6	21.26	15.91	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#0	21.28	15.93	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#13	21.24	15.89	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.35	16.00	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.23	16.88	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.31	16.96	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.15	16.80	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#13	21.09	15.74	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#0	21.34	15.99	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#6	21.26	15.91	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.21	15.86	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.28	16.93	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.44	17.09	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.21	16.86	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#0	21.16	15.81	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#6	21.04	15.69	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#13	21.18	15.83	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.09	15.74	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.29	17.94	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.45	18.10	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.25	17.90	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#0	22.39	17.04	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#12	22.35	17.00	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#25	22.38	17.03	38.45	PASS



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Band5	10MHz	QPSK	20450	50RB#0	22.36	17.01	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.23	17.88	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.32	17.97	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.16	17.81	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#25	22.26	16.91	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#0	22.33	16.98	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#12	22.34	16.99	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.25	16.90	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.10	17.75	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.20	17.85	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.00	17.65	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#0	22.26	16.91	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#25	22.33	16.98	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#12	22.20	16.85	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.32	16.97	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.21	16.86	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.47	17.12	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.44	17.09	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#25	21.39	16.04	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#12	21.41	16.06	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#0	21.29	15.94	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.37	16.02	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.46	17.11	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.47	17.12	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.41	17.06	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#25	21.28	15.93	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#0	21.39	16.04	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#12	21.28	15.93	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.23	15.88	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.33	16.98	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.42	17.07	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.47	17.12	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#0	21.21	15.86	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#12	21.27	15.92	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#25	21.20	15.85	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.19	15.84	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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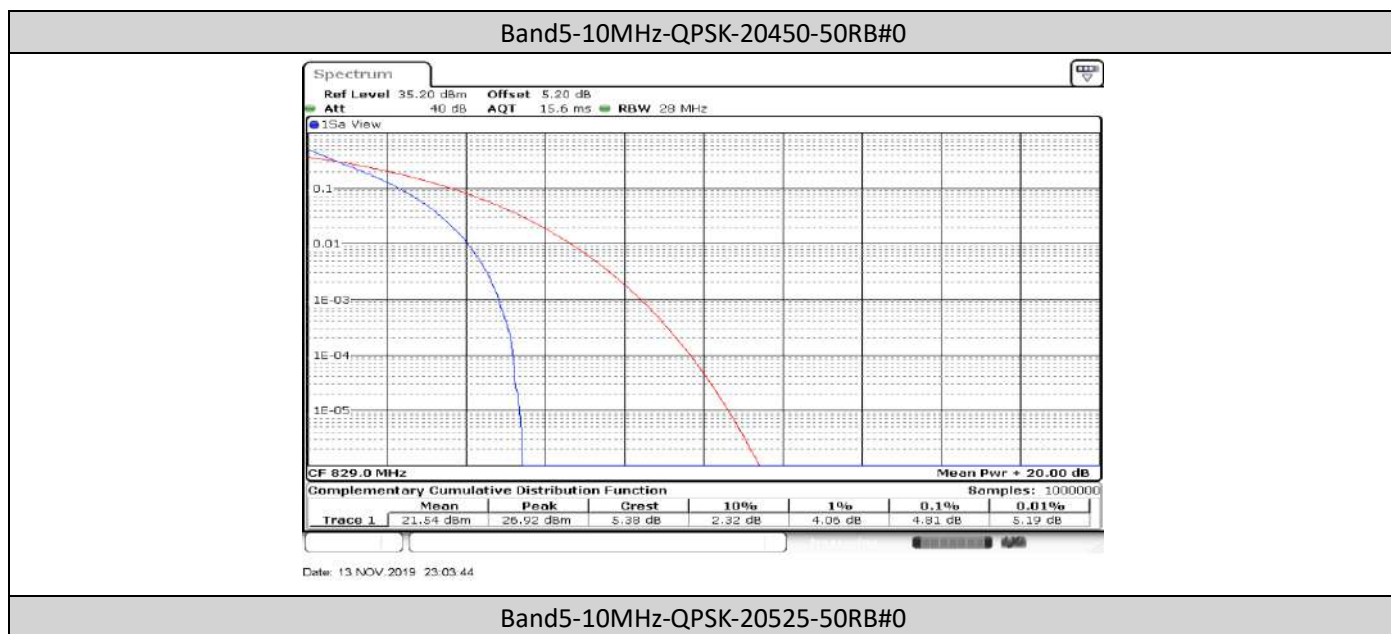


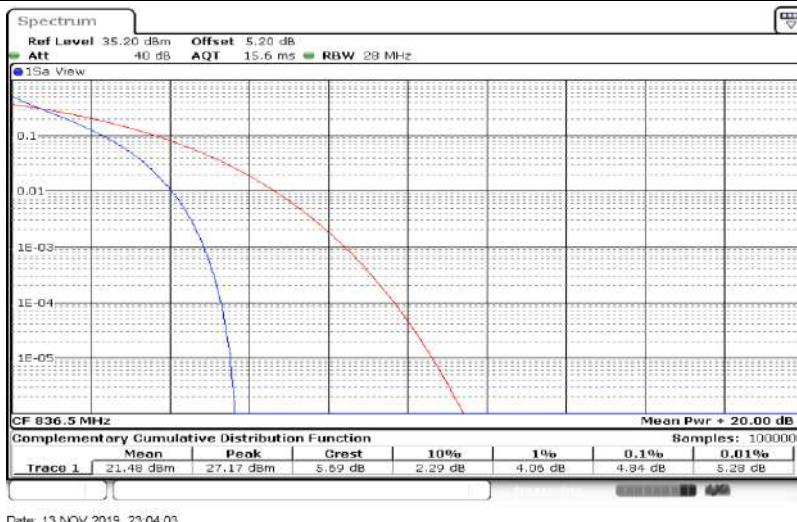
2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	4.81	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	4.84	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	4.49	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.65	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.71	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.36	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

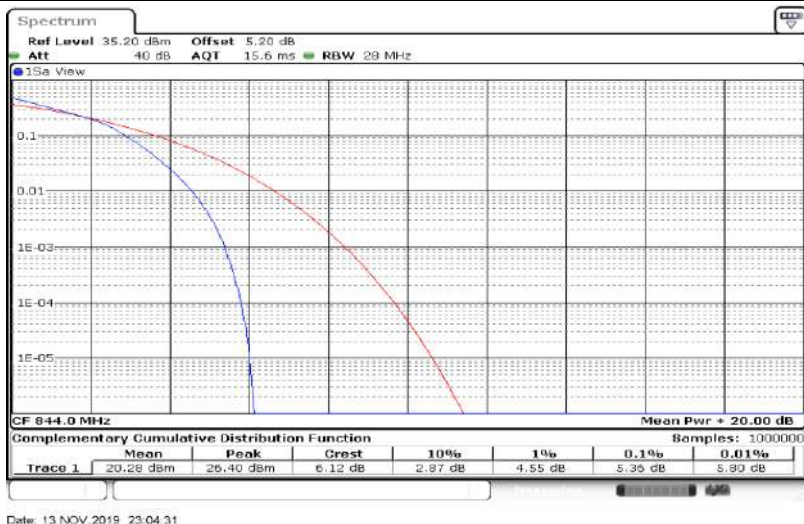


Band5-10MHz-16QAM-20600-50RB#0



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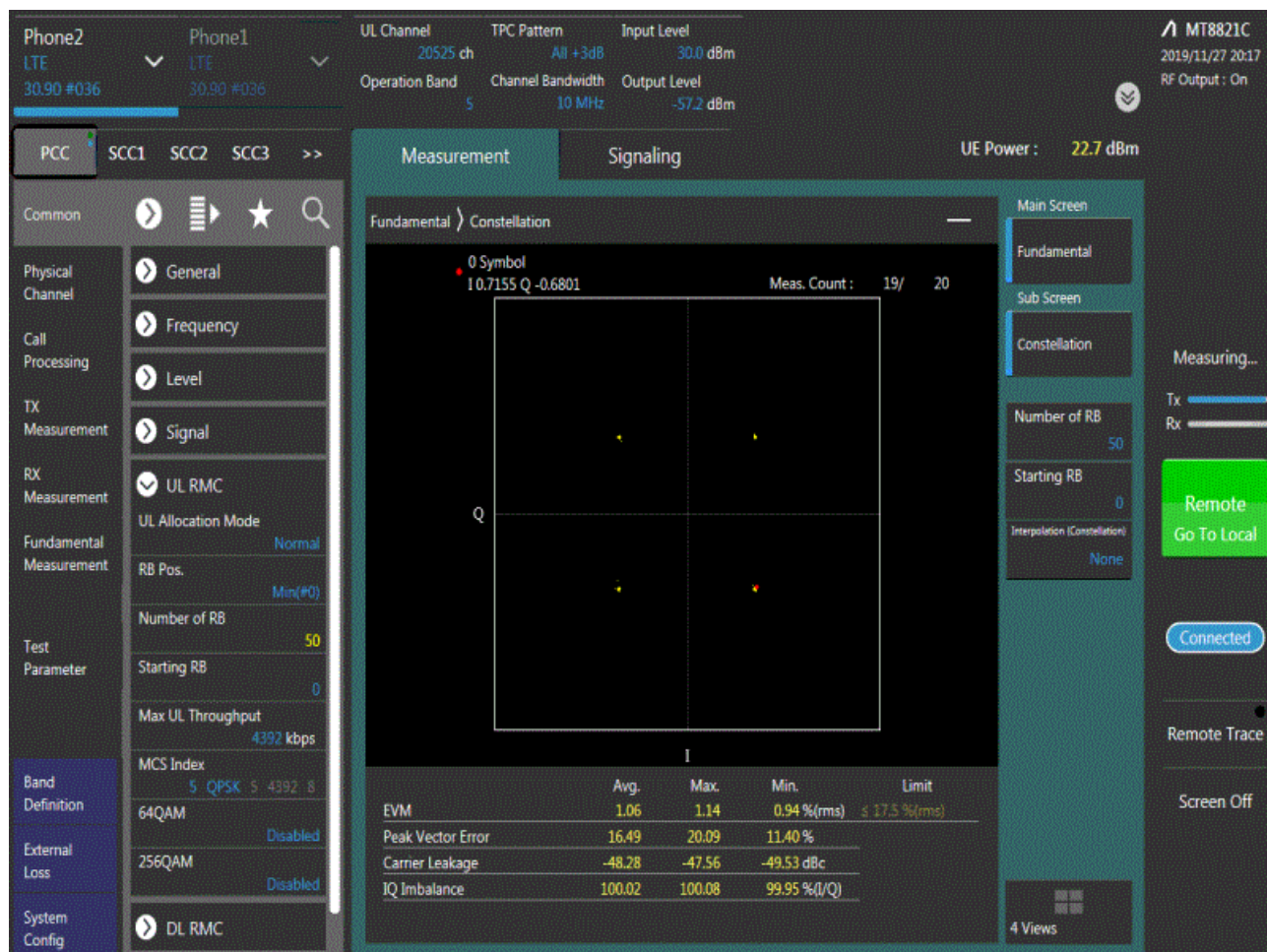
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3. Modulation Characteristics

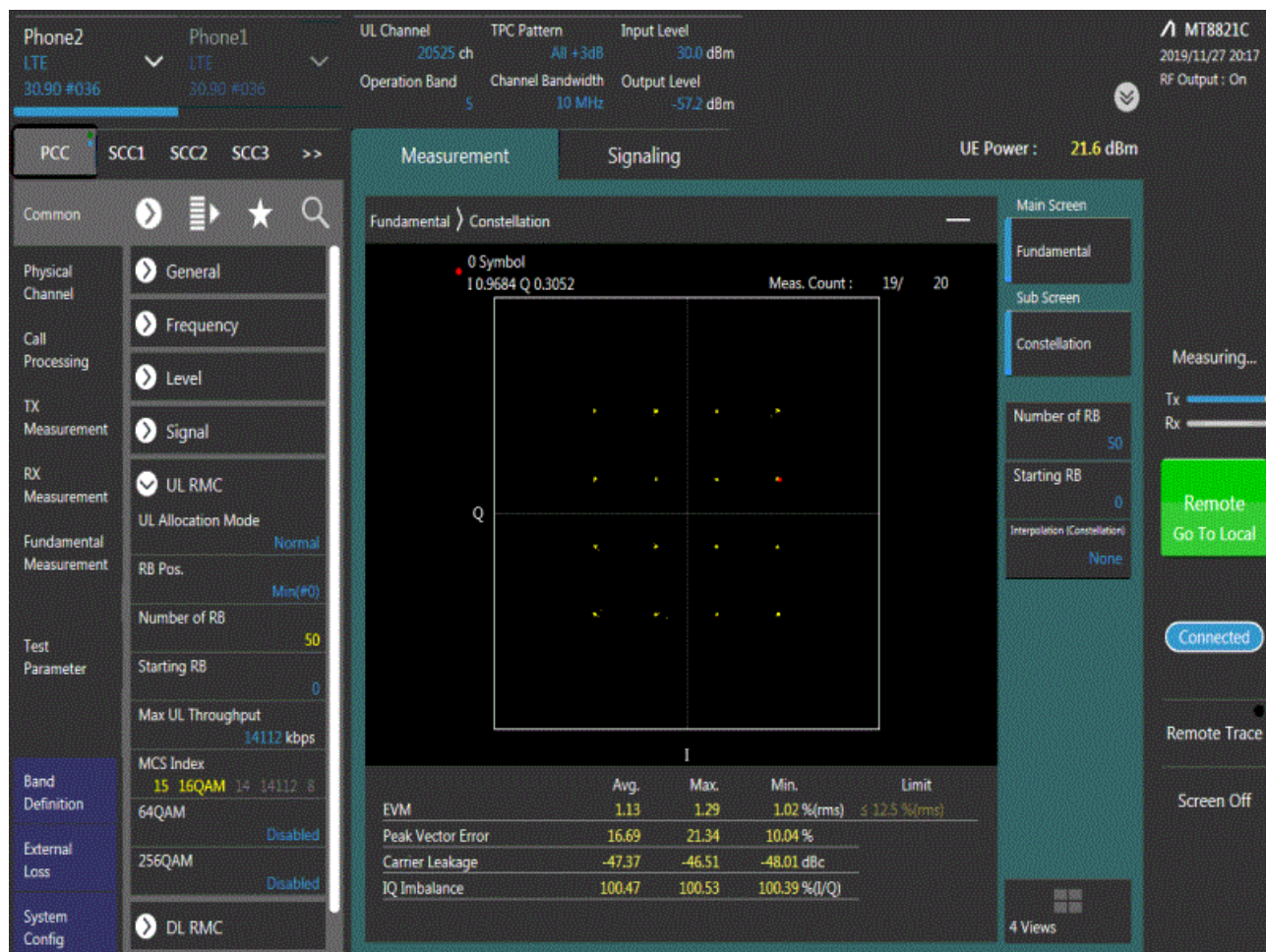
3.1. Test Mode = LTE /TM1 10MHz

3.1.1. Test Channel = MCH



3.2. Test Mode = LTE /TM2 10MHz

3.2.1. Test Channel = MCH



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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	1.293	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.100	1.287	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.100	1.296	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.094	1.290	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.097	1.293	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.094	1.287	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.685	2.916	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.691	2.904	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.685	2.916	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.679	2.916	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.685	2.910	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.679	2.910	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.466	4.840	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.476	5.300	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.476	4.840	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.476	4.860	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.476	4.860	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.466	4.810	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.931	9.680	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.951	9.800	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.931	9.660	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.951	9.600	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.931	9.560	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.931	9.600	PASS



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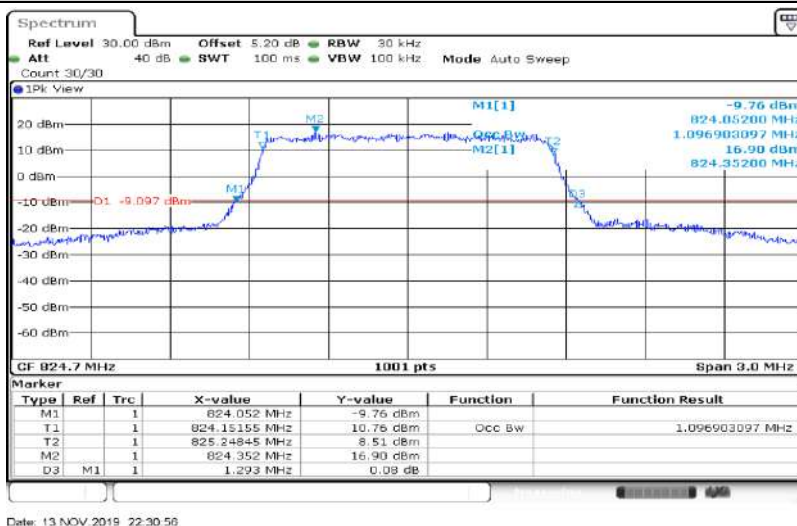
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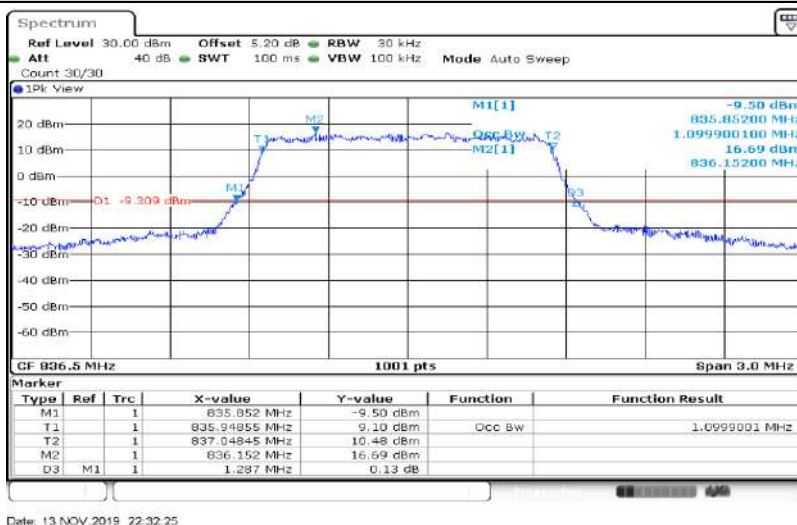
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4.2. Test Plots

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



Band5-1.4MHz-QPSK-20525-6RB#0-1.1

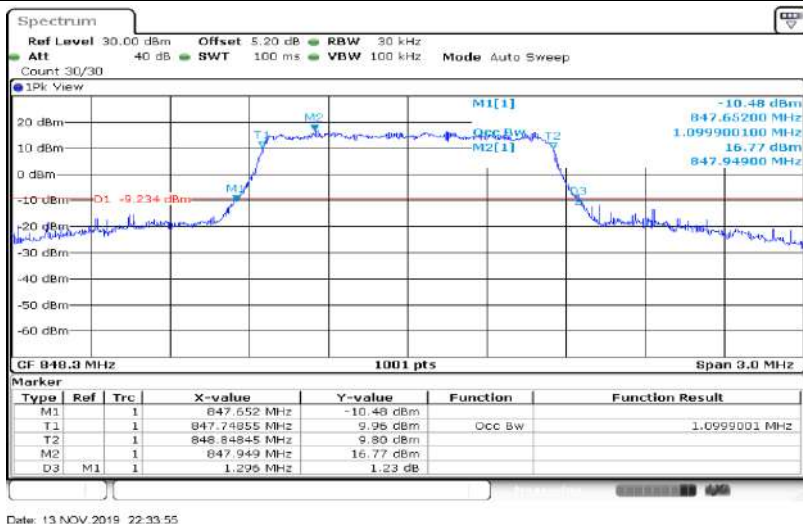


Band5-1.4MHz-QPSK-20643-6RB#0-1.1

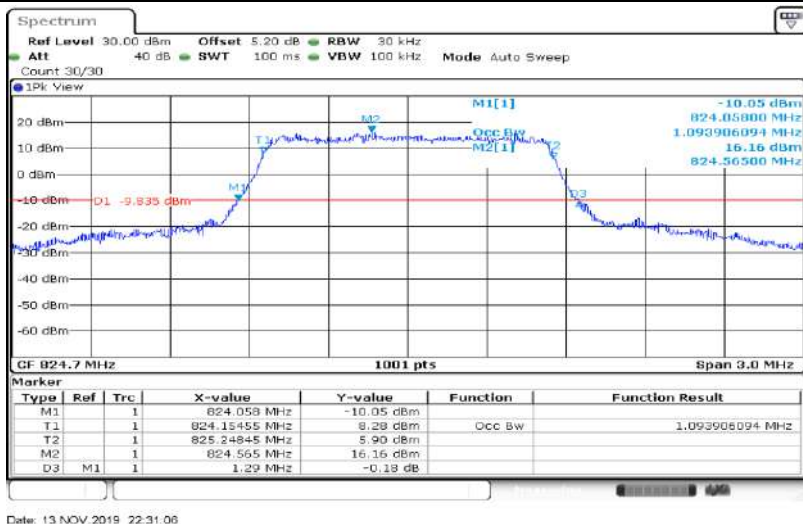


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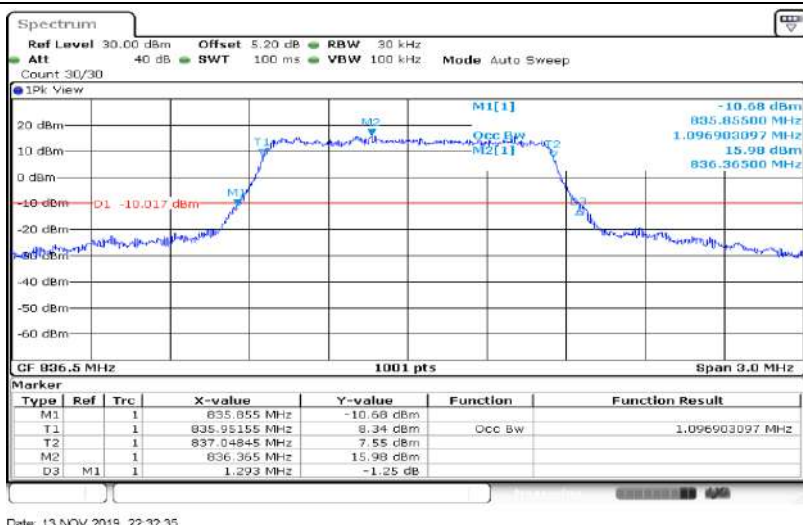


Band5-1.4MHz-16QAM-20407-6RB#0-1.094



Band5-1.4MHz-16QAM-20525-6RB#0-1.097





Band5-1.4MHz-16QAM-20643-6RB#0-1.094



Band5-3MHz-QPSK-20415-15RB#0-2.685

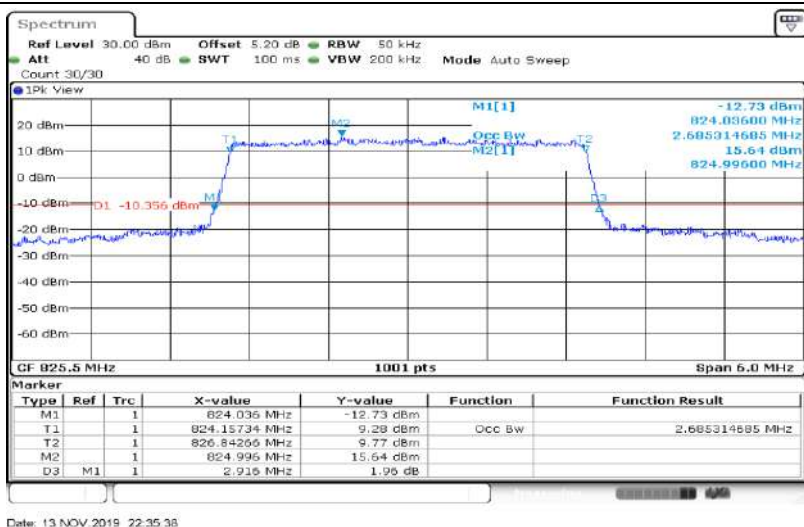


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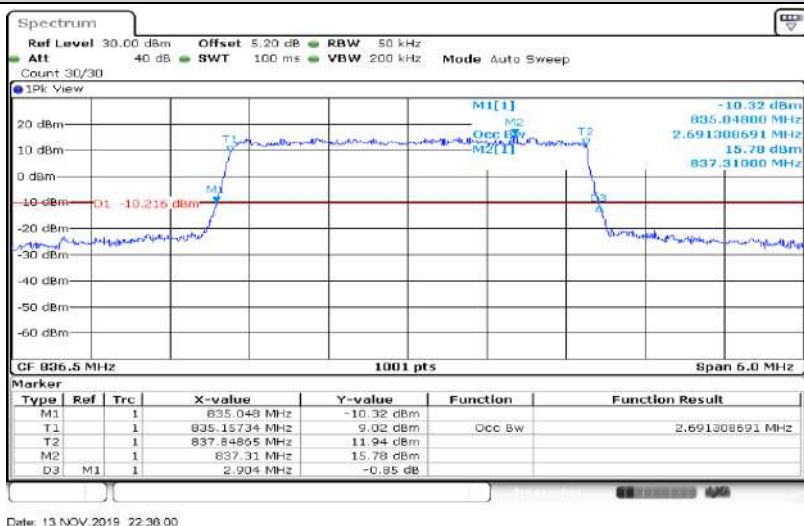
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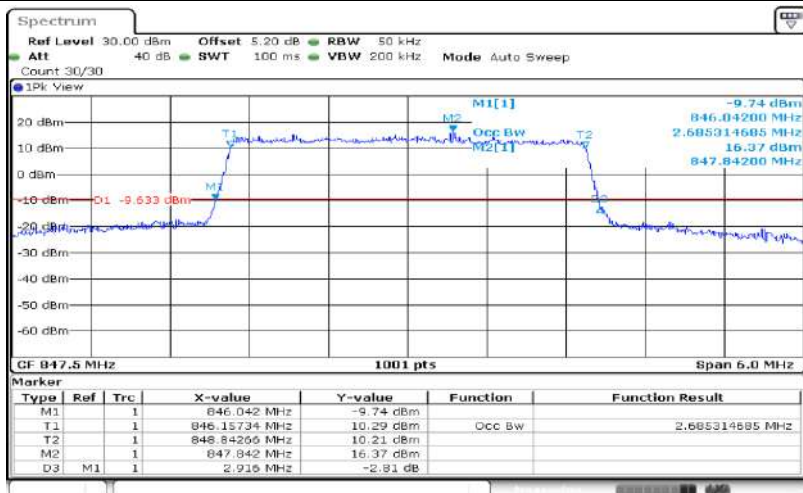


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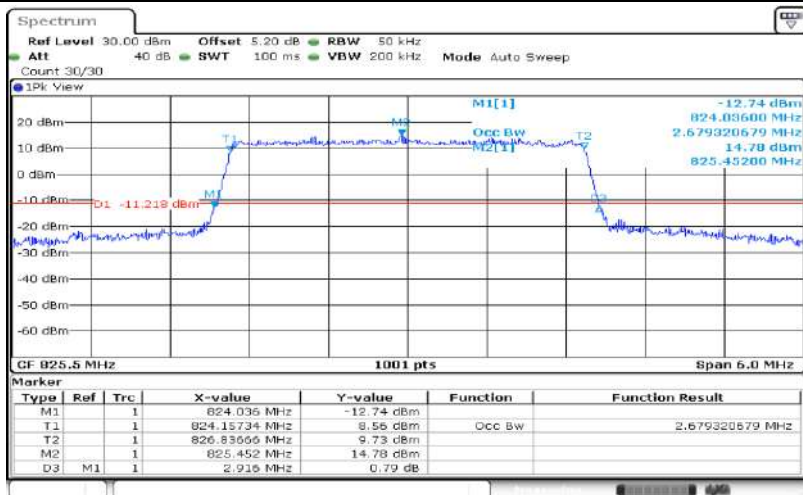
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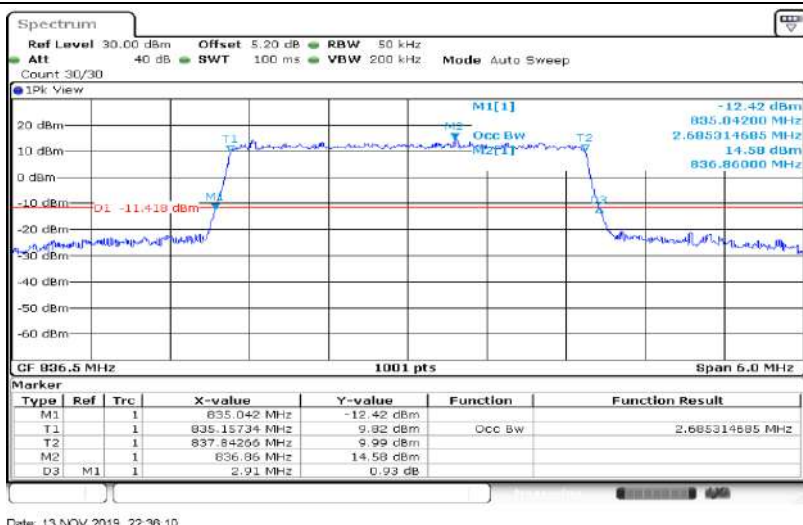
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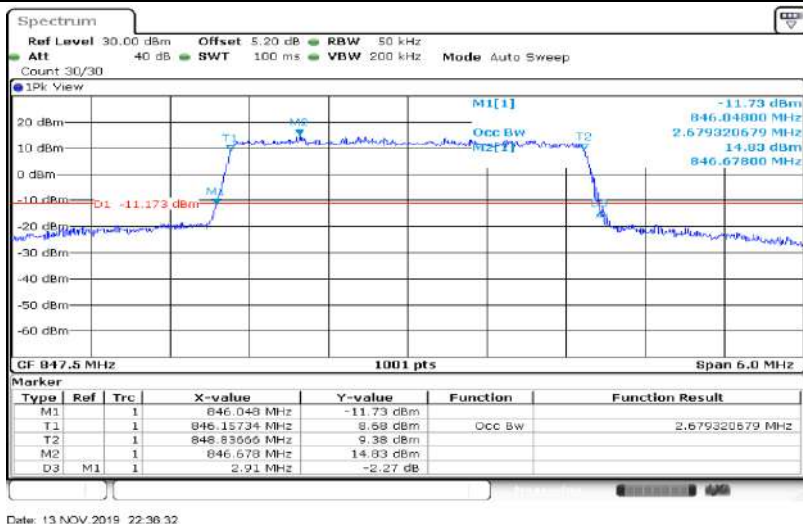
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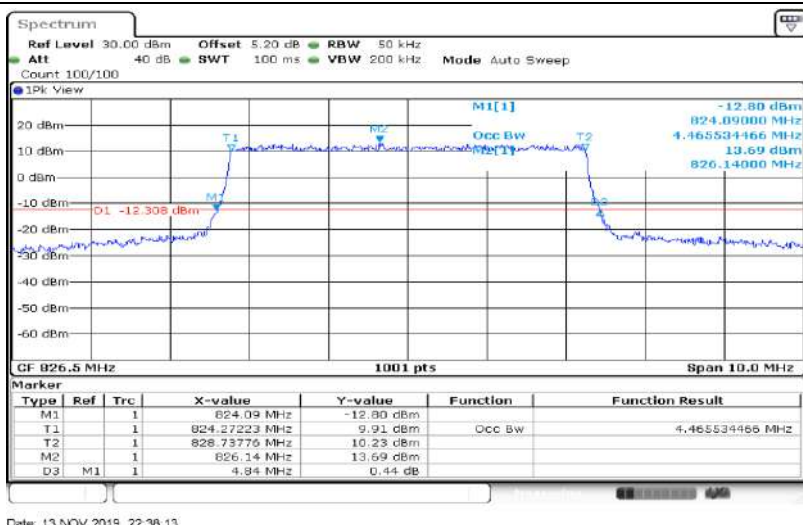


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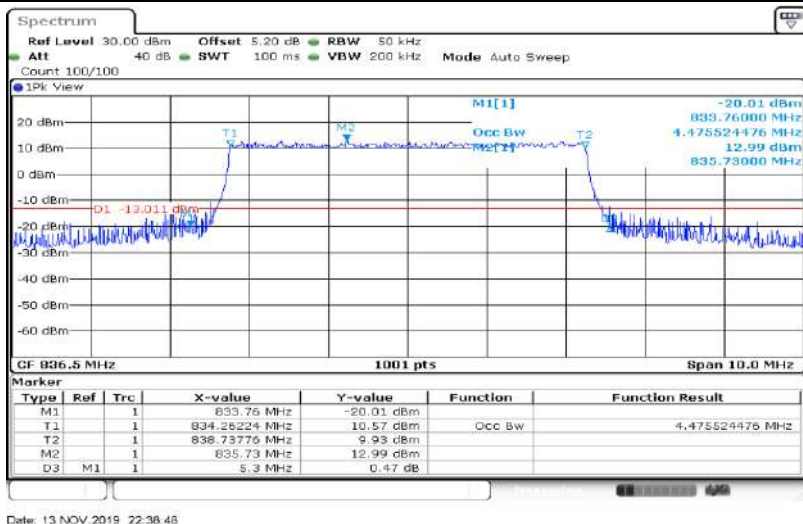


Band5-5MHz-QPSK-20425-25RB#0-4.466





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



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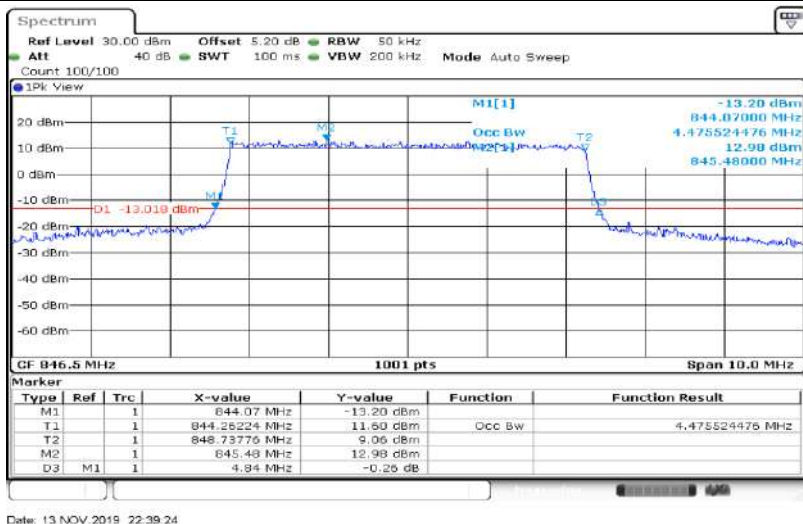


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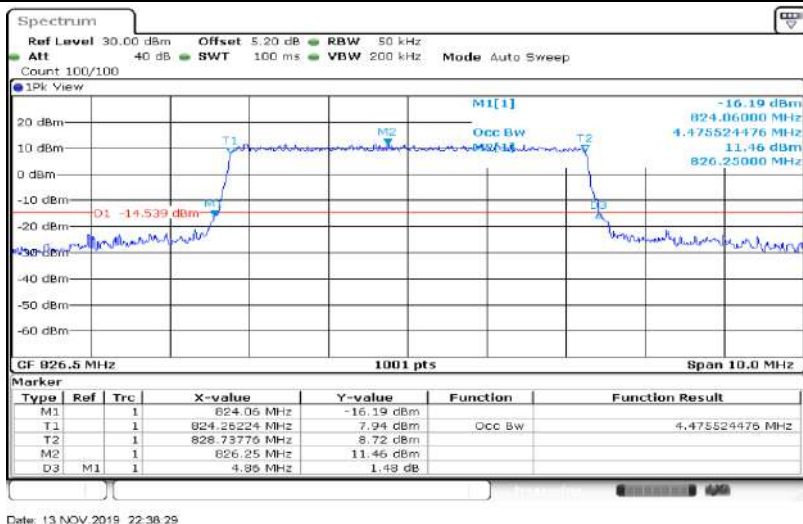
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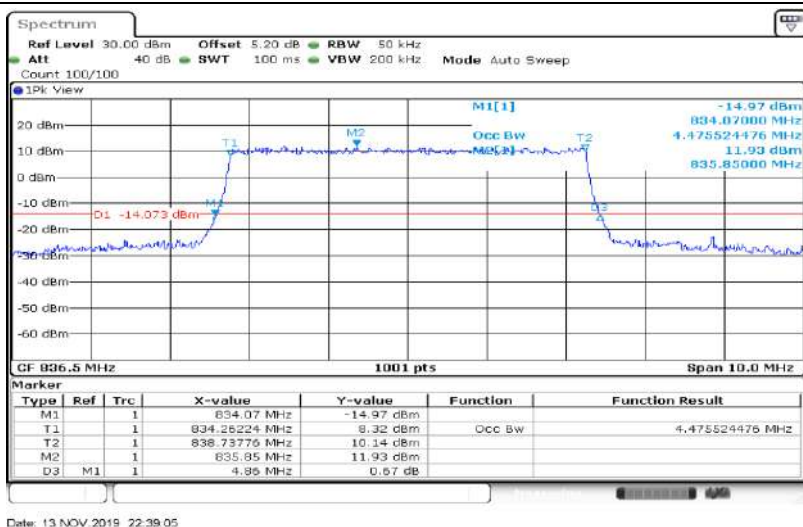


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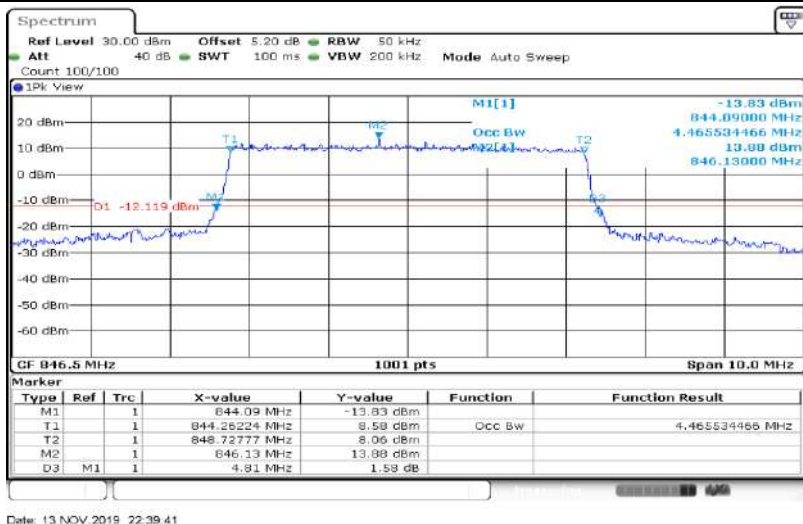


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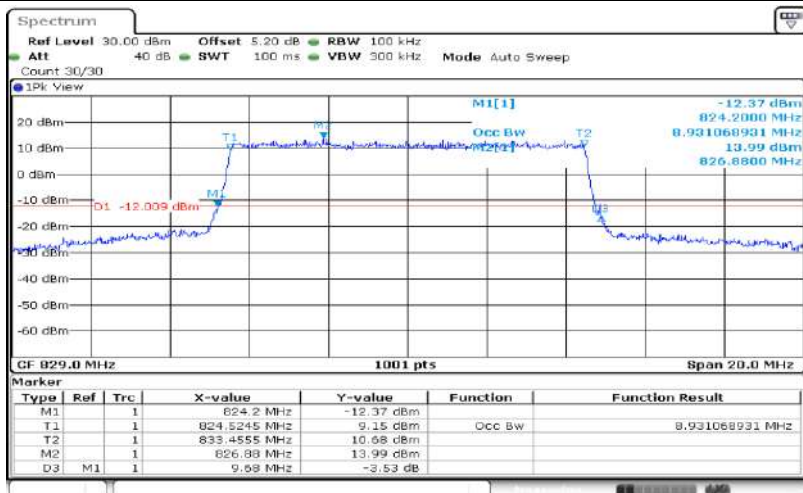


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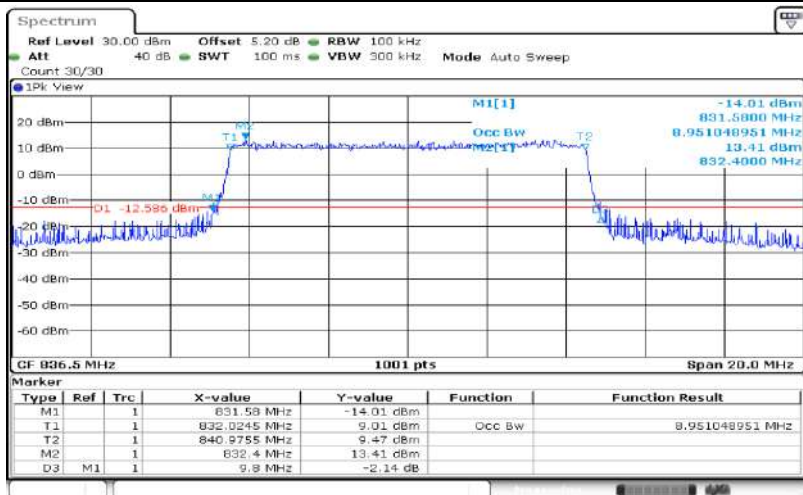
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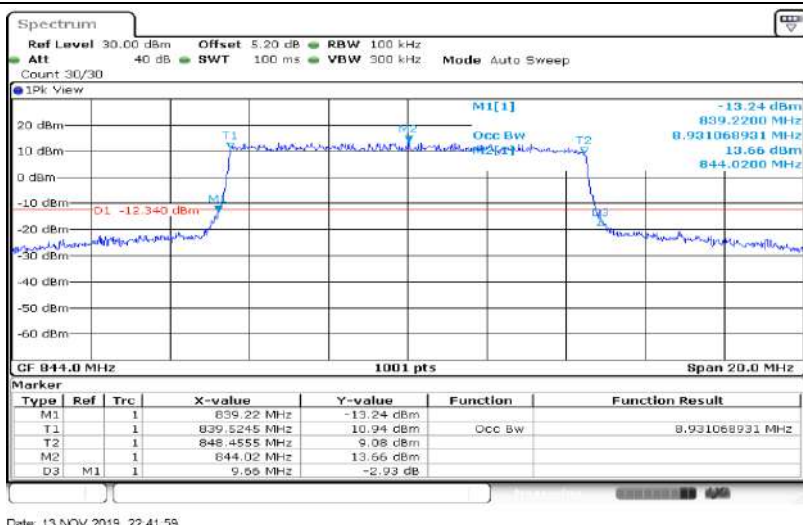
Band5-10MHz-QPSK-20525-50RB#0-8.951



Date: 13 NOV 2019 22:41:37

Band5-10MHz-QPSK-20600-50RB#0-8.931





Band5-10MHz-16QAM-20450-50RB#0-8.951

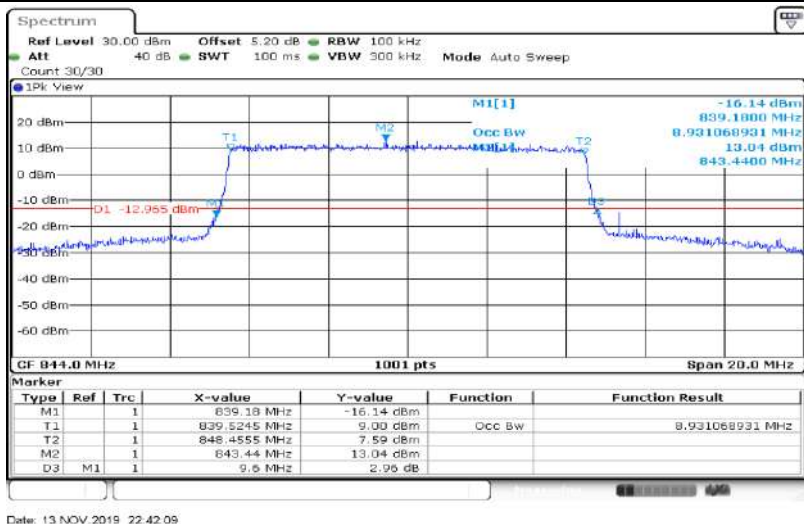


Band5-10MHz-16QAM-20525-50RB#0-8.931





Band5-10MHz-16QAM-20600-50RB#0-8.931



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



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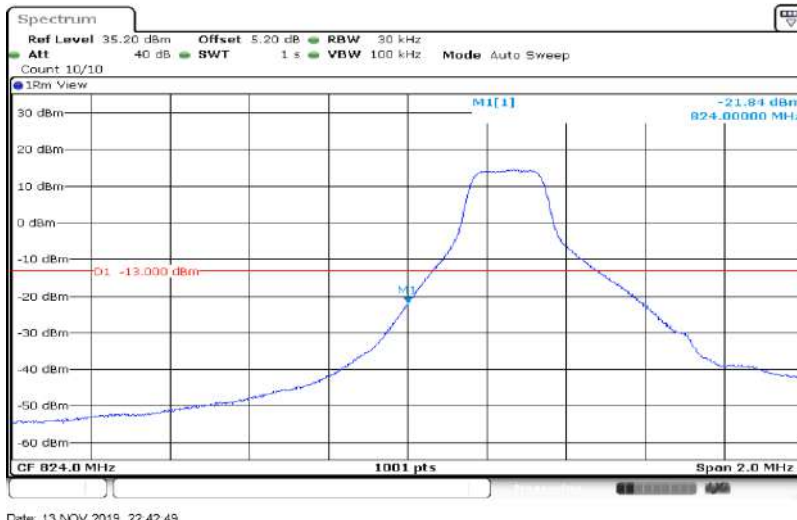


Band5-1.4MHz-QPSK-20643-6RB#0



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





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

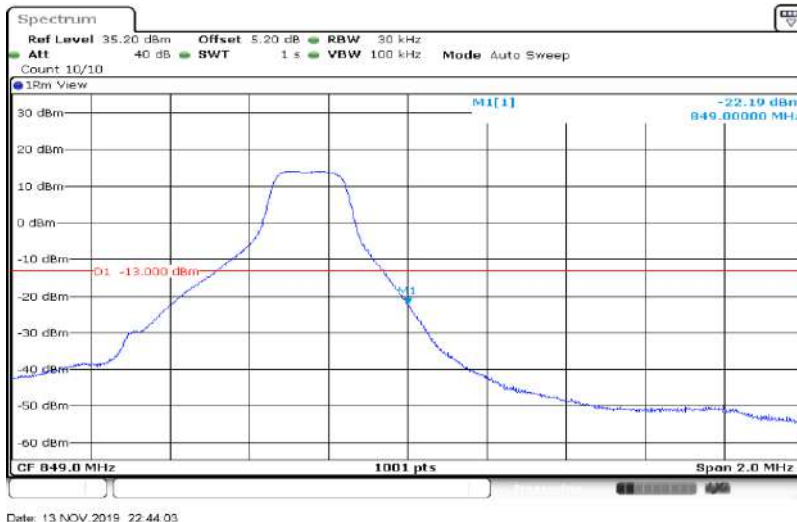


Band5-1.4MHz-16QAM-20643-1RB#5



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



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



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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

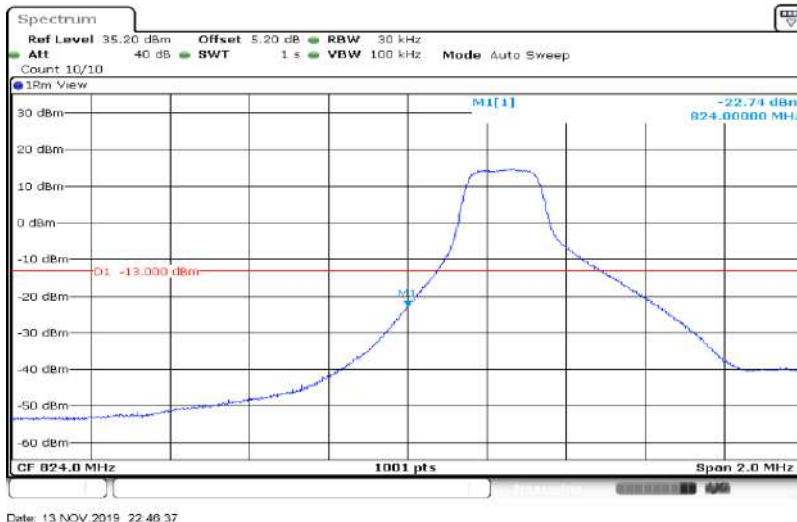


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Band5-3MHz-16QAM-20415-15RB#0



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



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



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





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



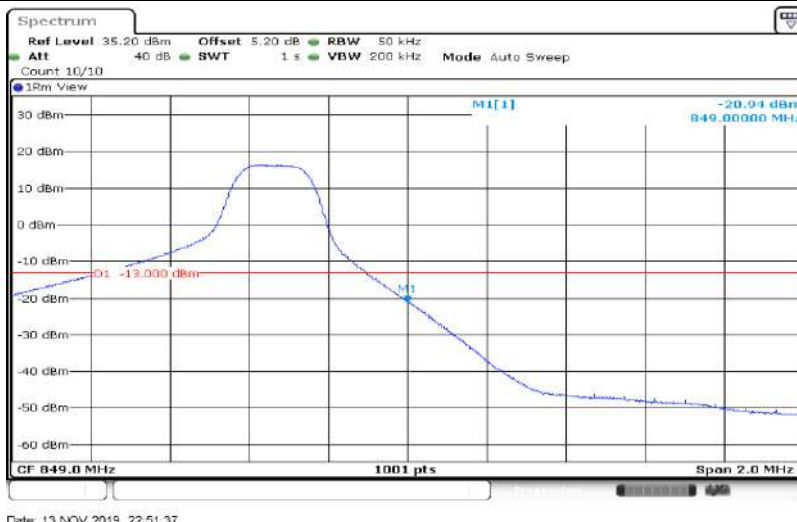
Band5-5MHz-16QAM-20625-1RB#24



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



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



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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

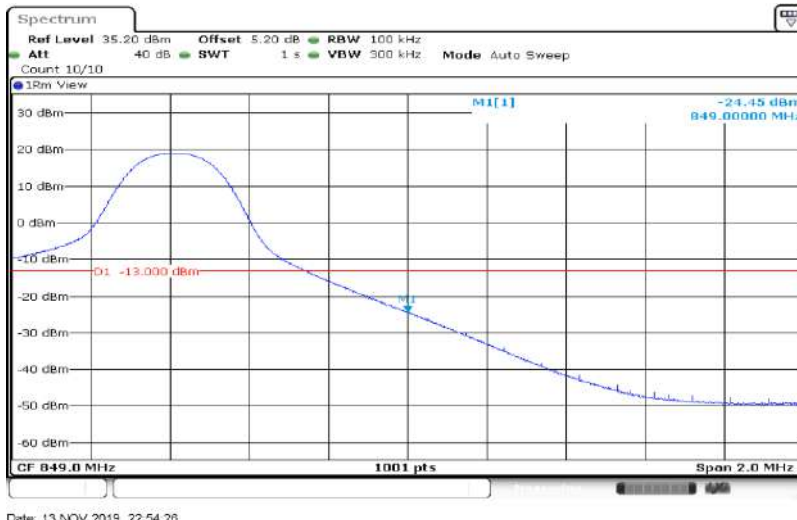


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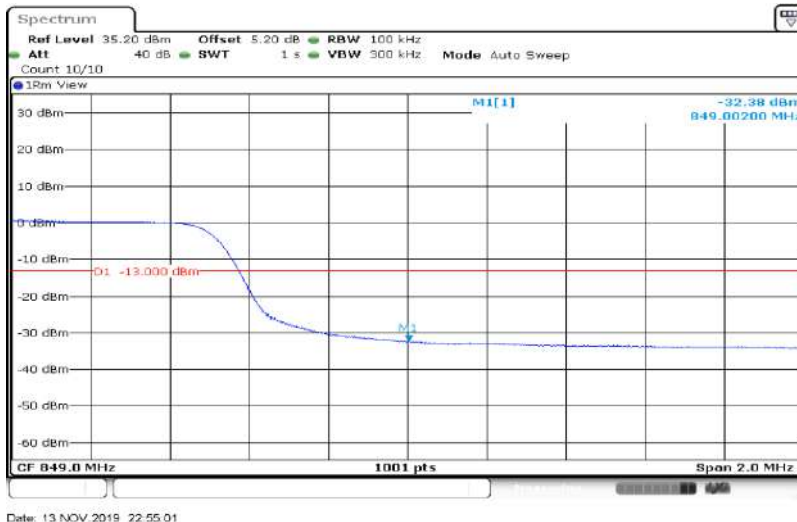
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Band5-10MHz-16QAM-20600-50RB#0



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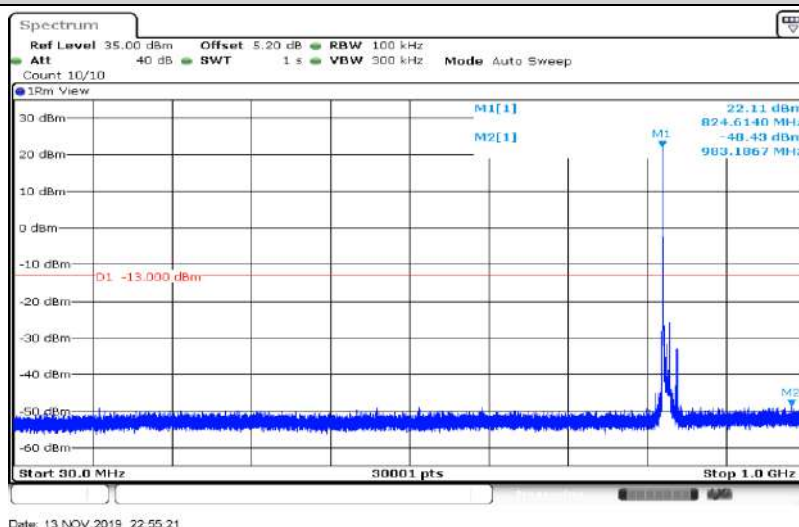
6. Spurious Emission at Antenna Terminal

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.

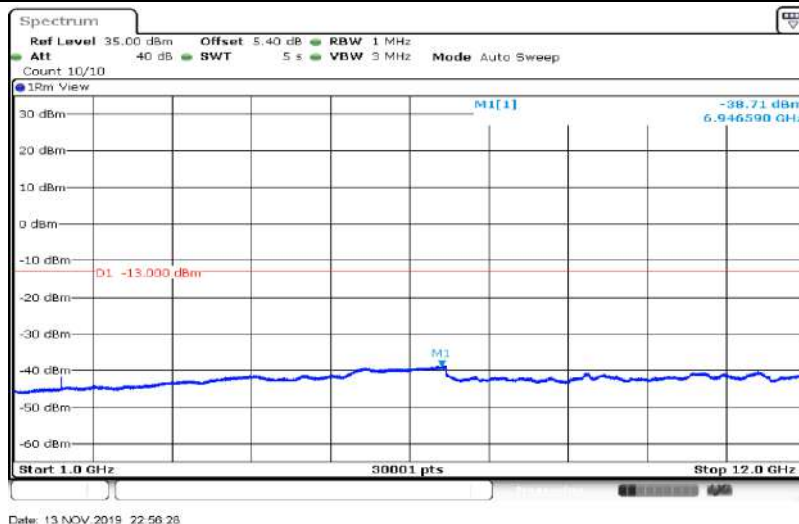
Remark2: only the worst case data displayed in this report.

6.1. Test Plots

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

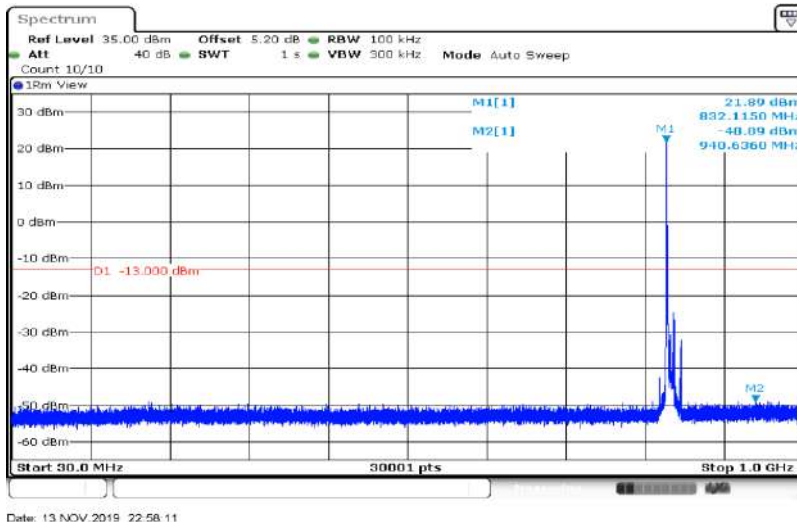


Band5-10MHz-QPSK-20450-1RB#0-Range2:1000~12000MHz

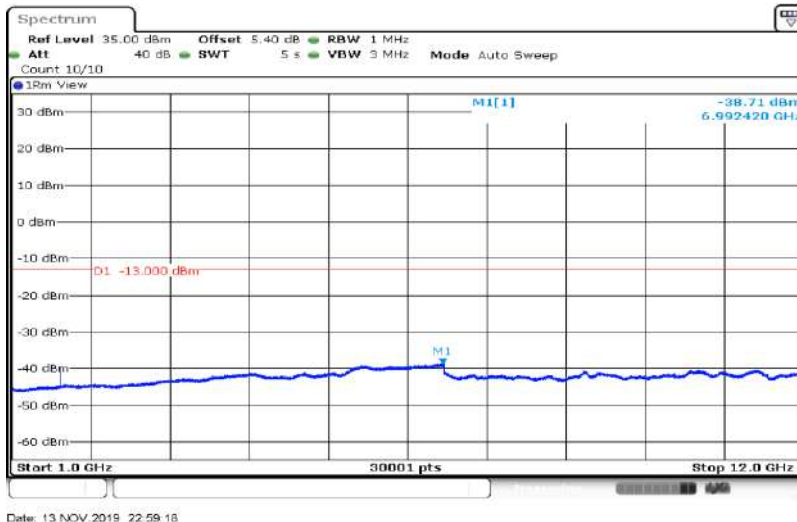


Band5-10MHz-QPSK-20525-1RB#0-Range1:30~1000MHz





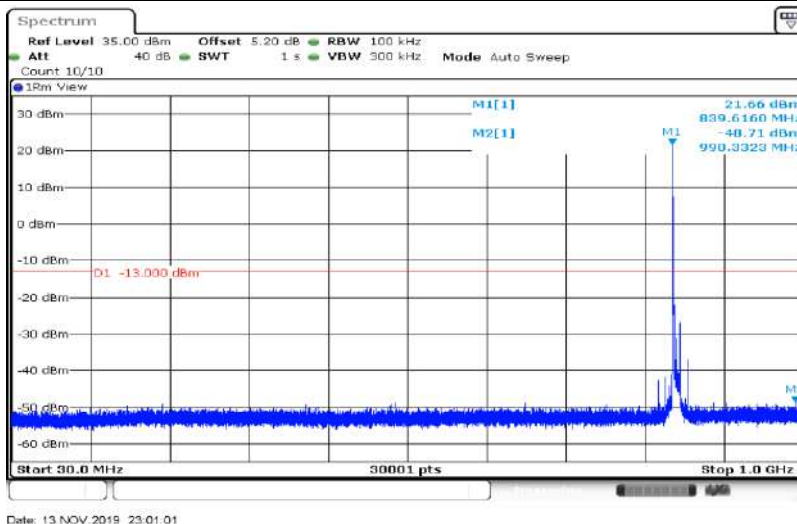
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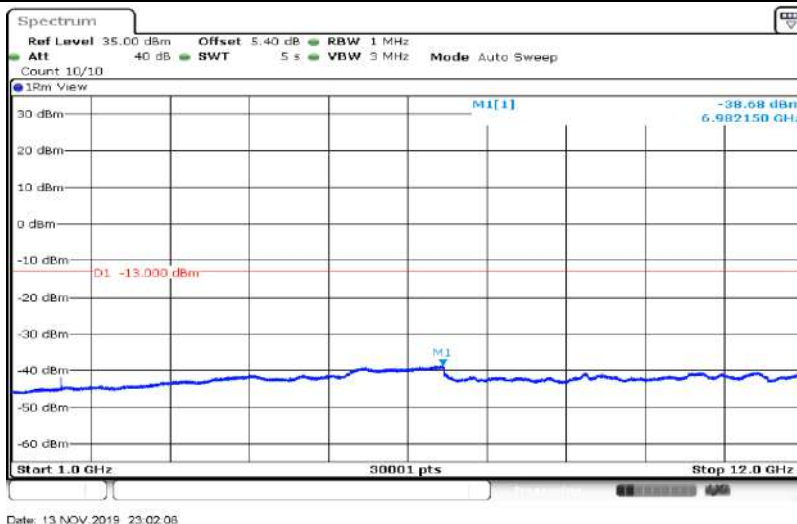
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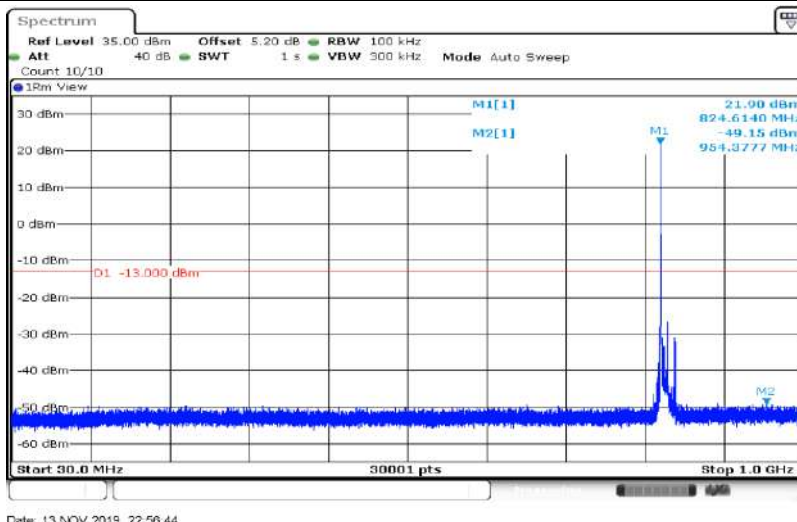


Band5-10MHz-QPSK-20600-1RB#0-Range2:1000~12000MHz

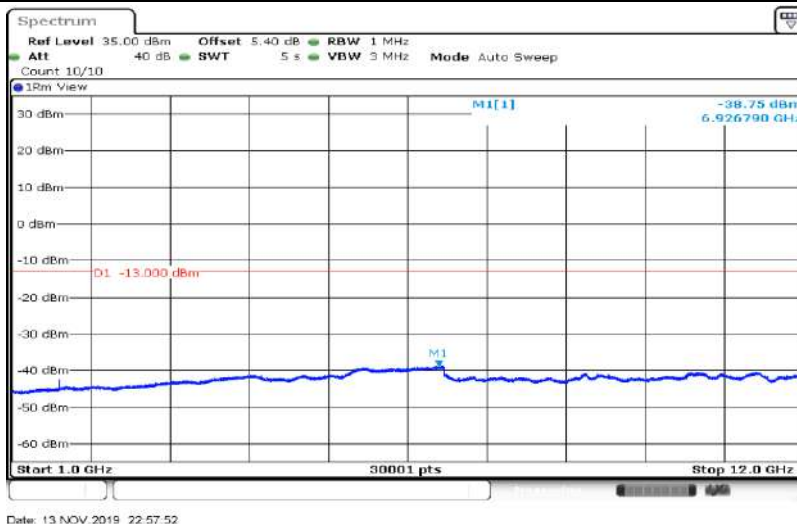


Band5-10MHz-16QAM-20450-1RB#0-Range1:30~1000MHz



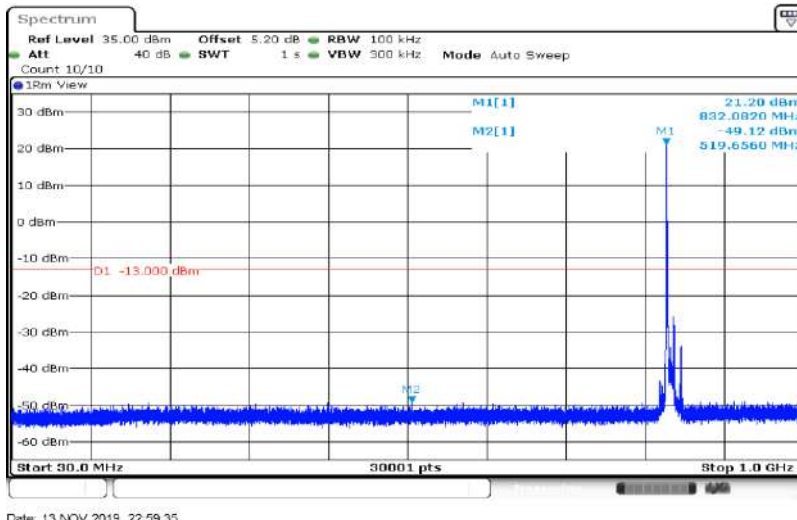


Band5-10MHz-16QAM-20450-1RB#0-Range2:1000~12000MHz

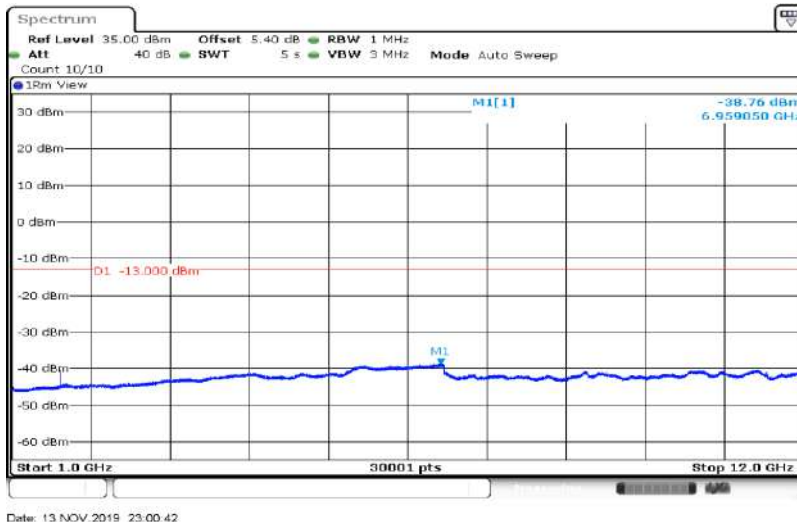


Band5-10MHz-16QAM-20525-1RB#0-Range1:30~1000MHz





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



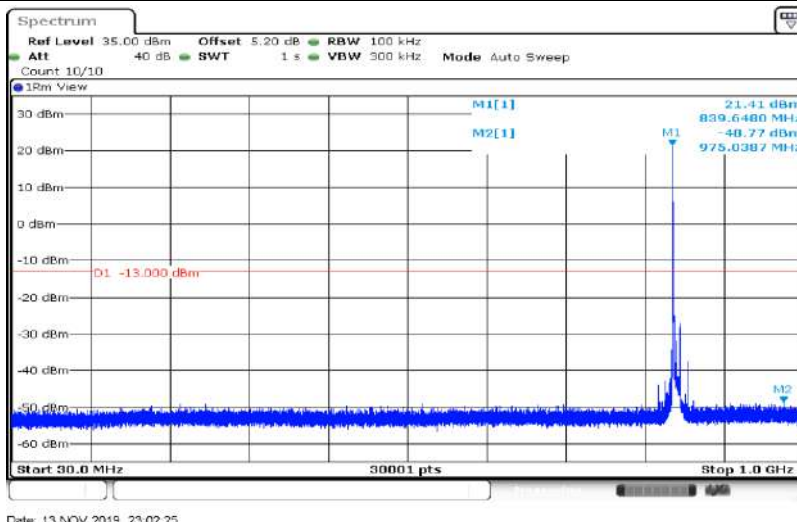
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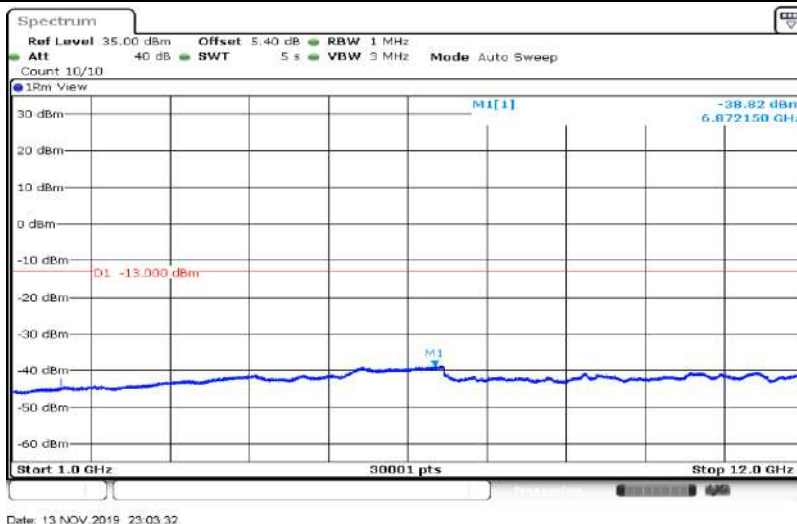
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Band5-10MHz-16QAM-20600-1RB#0-Range2:1000~12000MHz



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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
109.3500	-62.32	-13.00	49.32	296	348	Vertical
693.4647	-60.54	-13.00	47.54	243	254	Vertical
1649.3299	-52.79	-13.00	39.79	211	142	Vertical
2593.1186	-54.57	-13.00	41.57	275	0	Vertical
4947.6649	-49.73	-13.00	36.73	221	348	Vertical
7421.3474	-46.23	-13.00	33.23	195	4	Vertical
45.0843	-63.21	-13.00	50.21	196	131	Horizontal
244.2837	-65.68	-13.00	52.68	166	36	Horizontal
1648.9298	-48.03	-13.00	35.03	237	211	Horizontal
2473.8948	-57.05	-13.00	44.05	275	154	Horizontal
3298.4099	-51.58	-13.00	38.58	177	131	Horizontal
8536.9846	-52.20	-13.00	39.20	284	352	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
110.4655	-62.64	-13.00	49.64	196	326	Vertical
601.3101	-60.52	-13.00	47.52	166	197	Vertical
1664.1328	-50.98	-13.00	37.98	173	348	Vertical
3328.0109	-52.56	-13.00	39.56	189	261	Vertical
4992.6664	-46.39	-13.00	33.39	111	357	Vertical
7488.9496	-45.25	-13.00	32.25	244	4	Vertical
45.2783	-63.24	-13.00	50.24	133	322	Horizontal
680.8540	-60.27	-13.00	47.27	172	132	Horizontal
1664.1328	-46.98	-13.00	33.98	199	216	Horizontal
3328.4109	-48.48	-13.00	35.48	167	322	Horizontal
4160.4387	-54.21	-13.00	41.21	361	68	Horizontal
8785.3928	-51.52	-13.00	38.52	106	227	Horizontal



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7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
109.0590	-63.48	-13.00	50.48	118	351	Vertical
647.5329	-61.28	-13.00	48.28	143	192	Vertical
1679.3359	-53.35	-13.00	40.35	122	350	Vertical
4198.0399	-49.49	-13.00	36.49	169	35	Vertical
5037.4679	-48.16	-13.00	35.16	173	351	Vertical
7556.1519	-47.24	-13.00	34.24	274	223	Vertical
45.6178	-63.02	-13.00	50.02	196	318	Horizontal
628.9564	-60.23	-13.00	47.23	143	349	Horizontal
1678.9358	-50.45	-13.00	37.45	171	214	Horizontal
3358.4119	-50.74	-13.00	37.74	222	98	Horizontal
4198.2399	-54.28	-13.00	41.28	262	192	Horizontal
7556.3519	-51.90	-13.00	38.90	271	192	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	-4.20	-0.005066	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VN	NT	-5.50	-0.006634	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VH	NT	-4.20	-0.005066	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-4.30	-0.005140	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-7.00	-0.008368	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-2.50	-0.002989	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VL	NT	-6.20	-0.007346	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VN	NT	-3.30	-0.003910	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VH	NT	-8.60	-0.010190	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VL	NT	-3.80	-0.004584	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VN	NT	-6.70	-0.008082	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VH	NT	-5.70	-0.006876	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VL	NT	-5.50	-0.006575	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VN	NT	-8.20	-0.009803	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VH	NT	-3.40	-0.004065	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VL	NT	-8.20	-0.009716	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VN	NT	-6.00	-0.007109	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VH	NT	-3.70	-0.004384	±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	-8.20	-0.009891	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	-3.00	-0.003619	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	-7.30	-0.008806	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	-6.70	-0.008082	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	-8.10	-0.009771	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	-1.50	-0.001809	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	40	-5.70	-0.006876	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	-7.40	-0.008926	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	-6.10	-0.007292	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-10.00	-0.011955	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-7.90	-0.009444	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-1.00	-0.001195	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-3.50	-0.004184	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-3.10	-0.003706	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-6.20	-0.007412	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-6.30	-0.007531	±2.5	PASS



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Band5	10MHz	QPSK	20600	50RB#0	NV	-30	-5.80	-0.006872	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	-8.30	-0.009834	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	-7.80	-0.009242	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	-7.20	-0.008531	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	-9.20	-0.010900	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	30	-5.50	-0.006517	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	40	-9.50	-0.011256	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	-10.30	-0.012204	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-30	-4.10	-0.004946	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-20	-4.40	-0.005308	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	0	-4.70	-0.005669	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	10	-4.10	-0.004946	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	20	-8.00	-0.009650	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	30	-3.40	-0.004101	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	40	-6.20	-0.007479	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	50	-4.40	-0.005308	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-30	-7.10	-0.008488	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-20	-8.60	-0.010281	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	0	-4.40	-0.005260	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	10	-7.50	-0.008966	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	20	-3.90	-0.004662	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	30	-10.70	-0.012791	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	40	-5.10	-0.006097	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	50	-2.70	-0.003228	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-30	-8.50	-0.010071	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-20	-1.40	-0.001659	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	0	-5.80	-0.006872	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	10	-5.40	-0.006398	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	20	-3.20	-0.003791	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	30	-6.80	-0.008057	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	40	-7.10	-0.008412	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	50	-7.80	-0.009242	±2.5	PASS



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