

Appendix B

NR band N38



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1 Effective (Isotropic) Radiated Power Output Data

Ant3:

NR Band	Bandwidth h	SCS	Modulation	Channel l	RB Config	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
N38	20MHz	30KHz	TM1	516000	Inner Full	18.8	17.9	33	PASS
N38	20MHz	30KHz	TM1	516000	Inner 1RB Left	18.66	17.76	33	PASS
N38	20MHz	30KHz	TM1	516000	Inner 1RB Right	18.99	18.09	33	PASS
N38	20MHz	30KHz	TM1	519000	Inner Full	19.28	18.38	33	PASS
N38	20MHz	30KHz	TM1	519000	Inner 1RB Left	18.8	17.9	33	PASS
N38	20MHz	30KHz	TM1	519000	Inner 1RB Right	19.11	18.21	33	PASS
N38	20MHz	30KHz	TM1	522000	Inner Full	18.93	18.03	33	PASS
N38	20MHz	30KHz	TM1	522000	Inner 1RB Left	19.01	18.11	33	PASS
N38	20MHz	30KHz	TM1	522000	Inner 1RB Right	18.79	17.89	33	PASS
N38	20MHz	30KHz	TM2	516000	Inner Full	18.89	17.99	33	PASS
N38	20MHz	30KHz	TM2	516000	Inner 1RB Left	18.59	17.69	33	PASS
N38	20MHz	30KHz	TM2	516000	Inner 1RB Right	18.74	17.84	33	PASS
N38	20MHz	30KHz	TM2	519000	Inner Full	19.23	18.33	33	PASS
N38	20MHz	30KHz	TM2	519000	Inner 1RB Left	18.92	18.02	33	PASS
N38	20MHz	30KHz	TM2	519000	Inner 1RB Right	19.2	18.3	33	PASS
N38	20MHz	30KHz	TM2	522000	Inner Full	19	18.1	33	PASS
N38	20MHz	30KHz	TM2	522000	Inner 1RB Left	19.14	18.24	33	PASS
N38	20MHz	30KHz	TM2	522000	Inner 1RB Right	18.71	17.81	33	PASS
N38	20MHz	30KHz	TM3	516000	Inner Full	17.76	16.86	33	PASS
N38	20MHz	30KHz	TM3	516000	Inner 1RB Left	17.63	16.73	33	PASS
N38	20MHz	30KHz	TM3	516000	Inner 1RB Right	18.06	17.16	33	PASS
N38	20MHz	30KHz	TM3	519000	Inner Full	18.32	17.42	33	PASS
N38	20MHz	30KHz	TM3	519000	Inner 1RB Left	18.02	17.12	33	PASS
N38	20MHz	30KHz	TM3	519000	Inner 1RB Right	18.45	17.55	33	PASS
N38	20MHz	30KHz	TM3	522000	Inner Full	17.99	17.09	33	PASS
N38	20MHz	30KHz	TM3	522000	Inner 1RB Left	18.18	17.28	33	PASS
N38	20MHz	30KHz	TM3	522000	Inner 1RB Right	17.68	16.78	33	PASS
N38	20MHz	30KHz	TM4	516000	Inner Full	16.26	15.36	33	PASS
N38	20MHz	30KHz	TM4	516000	Inner 1RB Left	16.03	15.13	33	PASS
N38	20MHz	30KHz	TM4	516000	Inner 1RB Right	16.28	15.38	33	PASS
N38	20MHz	30KHz	TM4	519000	Inner Full	16.77	15.87	33	PASS
N38	20MHz	30KHz	TM4	519000	Inner 1RB Left	15.93	15.03	33	PASS
N38	20MHz	30KHz	TM4	519000	Inner 1RB Right	16.54	15.64	33	PASS
N38	20MHz	30KHz	TM4	522000	Inner Full	16.54	15.64	33	PASS
N38	20MHz	30KHz	TM4	522000	Inner 1RB Left	16.26	15.36	33	PASS
N38	20MHz	30KHz	TM4	522000	Inner 1RB Right	15.84	14.94	33	PASS
N38	20MHz	30KHz	TM5	516000	Inner Full	14.5	13.6	33	PASS
N38	20MHz	30KHz	TM5	516000	Inner 1RB Left	14.32	13.42	33	PASS
N38	20MHz	30KHz	TM5	516000	Inner 1RB Right	14.44	13.54	33	PASS
N38	20MHz	30KHz	TM5	519000	Inner Full	14.97	14.07	33	PASS



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N38	20MHz	30KHz	TM5	519000	Inner 1RB Left	14.79	13.89	33	PASS
N38	20MHz	30KHz	TM5	519000	Inner 1RB Right	14.67	13.77	33	PASS
N38	20MHz	30KHz	TM5	522000	Inner Full	14.77	13.87	33	PASS
N38	20MHz	30KHz	TM5	522000	Inner 1RB Left	14.81	13.91	33	PASS
N38	20MHz	30KHz	TM5	522000	Inner 1RB Right	14.65	13.75	33	PASS
N38	20MHz	30KHz	TM6	516000	Inner Full	17.26	16.36	33	PASS
N38	20MHz	30KHz	TM6	516000	Inner 1RB Left	17.06	16.16	33	PASS
N38	20MHz	30KHz	TM6	516000	Inner 1RB Right	17.24	16.34	33	PASS
N38	20MHz	30KHz	TM6	519000	Inner Full	17.68	16.78	33	PASS
N38	20MHz	30KHz	TM6	519000	Inner 1RB Left	17.26	16.36	33	PASS
N38	20MHz	30KHz	TM6	519000	Inner 1RB Right	17.74	16.84	33	PASS
N38	20MHz	30KHz	TM6	522000	Inner Full	17.42	16.52	33	PASS
N38	20MHz	30KHz	TM6	522000	Inner 1RB Left	17.64	16.74	33	PASS
N38	20MHz	30KHz	TM6	522000	Inner 1RB Right	17.26	16.36	33	PASS
N38	20MHz	30KHz	TM7	516000	Inner Full	16.82	15.92	33	PASS
N38	20MHz	30KHz	TM7	516000	Inner 1RB Left	16.66	15.76	33	PASS
N38	20MHz	30KHz	TM7	516000	Inner 1RB Right	16.9	16	33	PASS
N38	20MHz	30KHz	TM7	519000	Inner Full	17.4	16.5	33	PASS
N38	20MHz	30KHz	TM7	519000	Inner 1RB Left	16.66	15.76	33	PASS
N38	20MHz	30KHz	TM7	519000	Inner 1RB Right	17.53	16.63	33	PASS
N38	20MHz	30KHz	TM7	522000	Inner Full	16.91	16.01	33	PASS
N38	20MHz	30KHz	TM7	522000	Inner 1RB Left	17.34	16.44	33	PASS
N38	20MHz	30KHz	TM7	522000	Inner 1RB Right	17.12	16.22	33	PASS
N38	20MHz	30KHz	TM8	516000	Inner Full	15.4	14.5	33	PASS
N38	20MHz	30KHz	TM8	516000	Inner 1RB Left	15.04	14.14	33	PASS
N38	20MHz	30KHz	TM8	516000	Inner 1RB Right	15.29	14.39	33	PASS
N38	20MHz	30KHz	TM8	519000	Inner Full	15.73	14.83	33	PASS
N38	20MHz	30KHz	TM8	519000	Inner 1RB Left	15.13	14.23	33	PASS
N38	20MHz	30KHz	TM8	519000	Inner 1RB Right	15.55	14.65	33	PASS
N38	20MHz	30KHz	TM8	522000	Inner Full	15.52	14.62	33	PASS
N38	20MHz	30KHz	TM8	522000	Inner 1RB Left	15.33	14.43	33	PASS
N38	20MHz	30KHz	TM8	522000	Inner 1RB Right	14.92	14.02	33	PASS
N38	20MHz	30KHz	TM9	516000	Inner Full	12.48	11.58	33	PASS
N38	20MHz	30KHz	TM9	516000	Inner 1RB Left	12.13	11.23	33	PASS
N38	20MHz	30KHz	TM9	516000	Inner 1RB Right	12.44	11.54	33	PASS
N38	20MHz	30KHz	TM9	519000	Inner Full	12.8	11.9	33	PASS
N38	20MHz	30KHz	TM9	519000	Inner 1RB Left	12.42	11.52	33	PASS
N38	20MHz	30KHz	TM9	519000	Inner 1RB Right	12.8	11.9	33	PASS
N38	20MHz	30KHz	TM9	522000	Inner Full	12.76	11.86	33	PASS
N38	20MHz	30KHz	TM9	522000	Inner 1RB Left	12.96	12.06	33	PASS
N38	20MHz	30KHz	TM9	522000	Inner 1RB Right	12.64	11.74	33	PASS



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Ant4:

NR Band	Bandwidth	SCS	Modulation	Channel	RB Config	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
N38	20MHz	30KHz	TM1	516000	Inner Full	22.65	21.85	33	PASS
N38	20MHz	30KHz	TM1	516000	Inner 1RB Left	22.52	21.72	33	PASS
N38	20MHz	30KHz	TM1	516000	Inner 1RB Right	22.89	22.09	33	PASS
N38	20MHz	30KHz	TM1	519000	Inner Full	23.09	22.29	33	PASS
N38	20MHz	30KHz	TM1	519000	Inner 1RB Left	22.76	21.96	33	PASS
N38	20MHz	30KHz	TM1	519000	Inner 1RB Right	23.08	22.28	33	PASS
N38	20MHz	30KHz	TM1	522000	Inner Full	22.8	22	33	PASS
N38	20MHz	30KHz	TM1	522000	Inner 1RB Left	22.84	22.04	33	PASS
N38	20MHz	30KHz	TM1	522000	Inner 1RB Right	22.7	21.9	33	PASS
N38	20MHz	30KHz	TM2	516000	Inner Full	22.81	22.01	33	PASS
N38	20MHz	30KHz	TM2	516000	Inner 1RB Left	22.52	21.72	33	PASS
N38	20MHz	30KHz	TM2	516000	Inner 1RB Right	22.59	21.79	33	PASS
N38	20MHz	30KHz	TM2	519000	Inner Full	23.07	22.27	33	PASS
N38	20MHz	30KHz	TM2	519000	Inner 1RB Left	22.84	22.04	33	PASS
N38	20MHz	30KHz	TM2	519000	Inner 1RB Right	23.06	22.26	33	PASS
N38	20MHz	30KHz	TM2	522000	Inner Full	22.95	22.15	33	PASS
N38	20MHz	30KHz	TM2	522000	Inner 1RB Left	23.08	22.28	33	PASS
N38	20MHz	30KHz	TM2	522000	Inner 1RB Right	22.7	21.9	33	PASS
N38	20MHz	30KHz	TM3	516000	Inner Full	21.68	20.88	33	PASS
N38	20MHz	30KHz	TM3	516000	Inner 1RB Left	21.63	20.83	33	PASS
N38	20MHz	30KHz	TM3	516000	Inner 1RB Right	21.94	21.14	33	PASS
N38	20MHz	30KHz	TM3	519000	Inner Full	22.29	21.49	33	PASS
N38	20MHz	30KHz	TM3	519000	Inner 1RB Left	22	21.2	33	PASS
N38	20MHz	30KHz	TM3	519000	Inner 1RB Right	22.33	21.53	33	PASS
N38	20MHz	30KHz	TM3	522000	Inner Full	21.93	21.13	33	PASS
N38	20MHz	30KHz	TM3	522000	Inner 1RB Left	22.18	21.38	33	PASS
N38	20MHz	30KHz	TM3	522000	Inner 1RB Right	21.51	20.71	33	PASS
N38	20MHz	30KHz	TM4	516000	Inner Full	20.26	19.46	33	PASS
N38	20MHz	30KHz	TM4	516000	Inner 1RB Left	19.93	19.13	33	PASS
N38	20MHz	30KHz	TM4	516000	Inner 1RB Right	20.16	19.36	33	PASS
N38	20MHz	30KHz	TM4	519000	Inner Full	20.7	19.9	33	PASS
N38	20MHz	30KHz	TM4	519000	Inner 1RB Left	19.76	18.96	33	PASS
N38	20MHz	30KHz	TM4	519000	Inner 1RB Right	20.55	19.75	33	PASS
N38	20MHz	30KHz	TM4	522000	Inner Full	20.52	19.72	33	PASS
N38	20MHz	30KHz	TM4	522000	Inner 1RB Left	20.21	19.41	33	PASS
N38	20MHz	30KHz	TM4	522000	Inner 1RB Right	19.76	18.96	33	PASS
N38	20MHz	30KHz	TM5	516000	Inner Full	18.41	17.61	33	PASS
N38	20MHz	30KHz	TM5	516000	Inner 1RB Left	18.18	17.38	33	PASS
N38	20MHz	30KHz	TM5	516000	Inner 1RB Right	18.27	17.47	33	PASS
N38	20MHz	30KHz	TM5	519000	Inner Full	18.94	18.14	33	PASS
N38	20MHz	30KHz	TM5	519000	Inner 1RB Left	18.64	17.84	33	PASS
N38	20MHz	30KHz	TM5	519000	Inner 1RB Right	18.55	17.75	33	PASS
N38	20MHz	30KHz	TM5	522000	Inner Full	18.68	17.88	33	PASS



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N38	20MHz	30KHz	TM5	522000	Inner 1RB Left	18.65	17.85	33	PASS
N38	20MHz	30KHz	TM5	522000	Inner 1RB Right	18.55	17.75	33	PASS
N38	20MHz	30KHz	TM6	516000	Inner Full	21.22	20.42	33	PASS
N38	20MHz	30KHz	TM6	516000	Inner 1RB Left	21.02	20.22	33	PASS
N38	20MHz	30KHz	TM6	516000	Inner 1RB Right	21.14	20.34	33	PASS
N38	20MHz	30KHz	TM6	519000	Inner Full	21.69	20.89	33	PASS
N38	20MHz	30KHz	TM6	519000	Inner 1RB Left	21.09	20.29	33	PASS
N38	20MHz	30KHz	TM6	519000	Inner 1RB Right	21.73	20.93	33	PASS
N38	20MHz	30KHz	TM6	522000	Inner Full	21.37	20.57	33	PASS
N38	20MHz	30KHz	TM6	522000	Inner 1RB Left	21.52	20.72	33	PASS
N38	20MHz	30KHz	TM6	522000	Inner 1RB Right	21.24	20.44	33	PASS
N38	20MHz	30KHz	TM7	516000	Inner Full	20.8	20	33	PASS
N38	20MHz	30KHz	TM7	516000	Inner 1RB Left	20.57	19.77	33	PASS
N38	20MHz	30KHz	TM7	516000	Inner 1RB Right	20.75	19.95	33	PASS
N38	20MHz	30KHz	TM7	519000	Inner Full	21.35	20.55	33	PASS
N38	20MHz	30KHz	TM7	519000	Inner 1RB Left	20.47	19.67	33	PASS
N38	20MHz	30KHz	TM7	519000	Inner 1RB Right	21.43	20.63	33	PASS
N38	20MHz	30KHz	TM7	522000	Inner Full	20.76	19.96	33	PASS
N38	20MHz	30KHz	TM7	522000	Inner 1RB Left	21.15	20.35	33	PASS
N38	20MHz	30KHz	TM7	522000	Inner 1RB Right	21.01	20.21	33	PASS
N38	20MHz	30KHz	TM8	516000	Inner Full	19.4	18.6	33	PASS
N38	20MHz	30KHz	TM8	516000	Inner 1RB Left	18.98	18.18	33	PASS
N38	20MHz	30KHz	TM8	516000	Inner 1RB Right	19.12	18.32	33	PASS
N38	20MHz	30KHz	TM8	519000	Inner Full	19.68	18.88	33	PASS
N38	20MHz	30KHz	TM8	519000	Inner 1RB Left	18.98	18.18	33	PASS
N38	20MHz	30KHz	TM8	519000	Inner 1RB Right	19.44	18.64	33	PASS
N38	20MHz	30KHz	TM8	522000	Inner Full	19.38	18.58	33	PASS
N38	20MHz	30KHz	TM8	522000	Inner 1RB Left	19.17	18.37	33	PASS
N38	20MHz	30KHz	TM8	522000	Inner 1RB Right	18.74	17.94	33	PASS
N38	20MHz	30KHz	TM9	516000	Inner Full	16.35	15.55	33	PASS
N38	20MHz	30KHz	TM9	516000	Inner 1RB Left	16.04	15.24	33	PASS
N38	20MHz	30KHz	TM9	516000	Inner 1RB Right	16.27	15.47	33	PASS
N38	20MHz	30KHz	TM9	519000	Inner Full	16.63	15.83	33	PASS
N38	20MHz	30KHz	TM9	519000	Inner 1RB Left	16.39	15.59	33	PASS
N38	20MHz	30KHz	TM9	519000	Inner 1RB Right	16.74	15.94	33	PASS
N38	20MHz	30KHz	TM9	522000	Inner Full	16.68	15.88	33	PASS
N38	20MHz	30KHz	TM9	522000	Inner 1RB Left	16.92	16.12	33	PASS
N38	20MHz	30KHz	TM9	522000	Inner 1RB Right	16.55	15.75	33	PASS

Note:

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

$$EIRP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBi]}$$

$$ERP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBi]} - 2.15$$



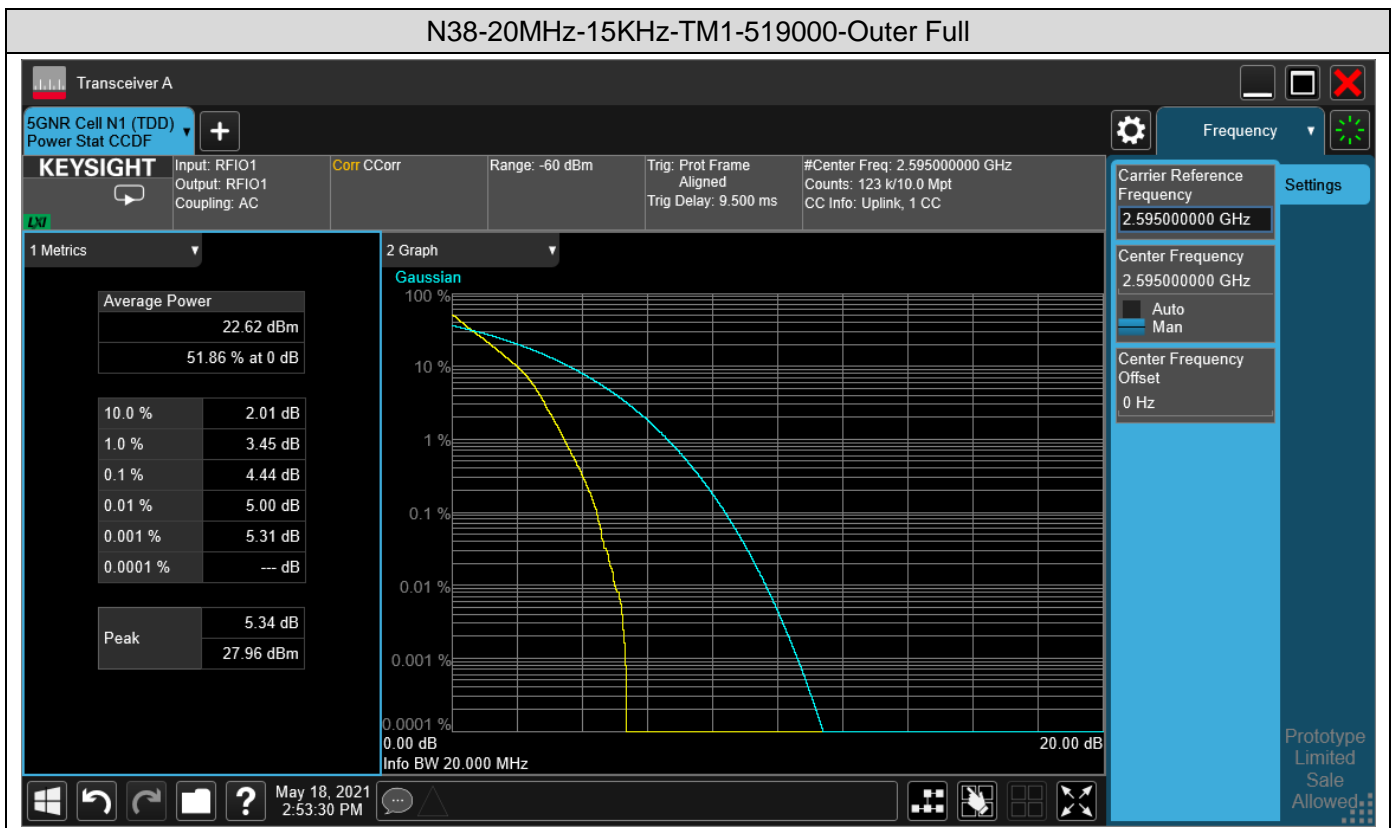
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2 Peak-to-Average Ratio

2.1 Test Results

NR Band	Bandwidth	SCS	Modulation	Channel	RB Config	Result (dB)	Limit (dBm)	Verdict
N38	20MHz	30KHz	TM1	519000	Outer Full	4.44	13	PASS
N38	20MHz	30KHz	TM6	519000	Outer Full	4.68	13	PASS

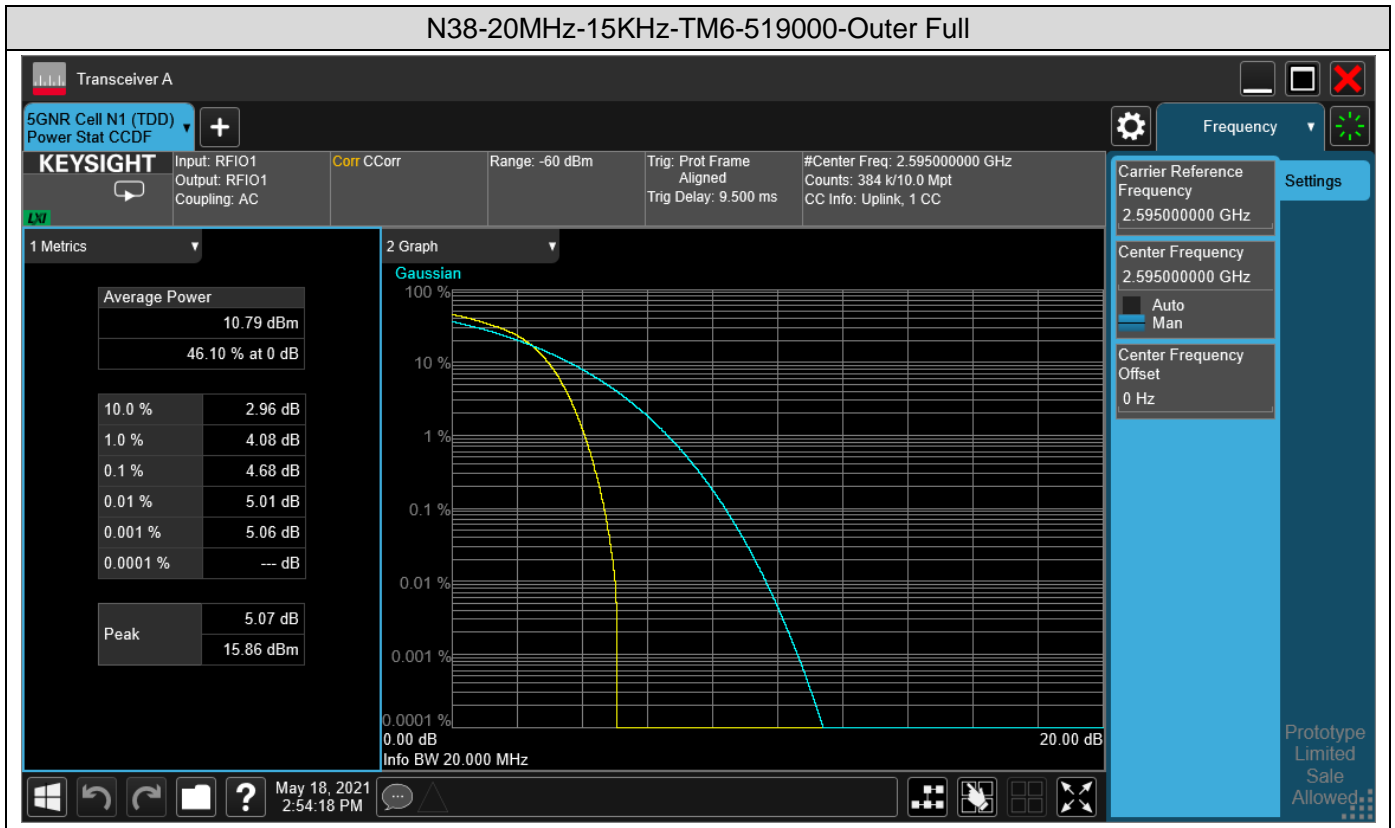
2.2 Test Plots



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Shenzhen Branch Inspection & Testing Services Laboratory

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 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



REMARK:

All antenna and all modulation had been tested, but only the worst case data displayed in this report



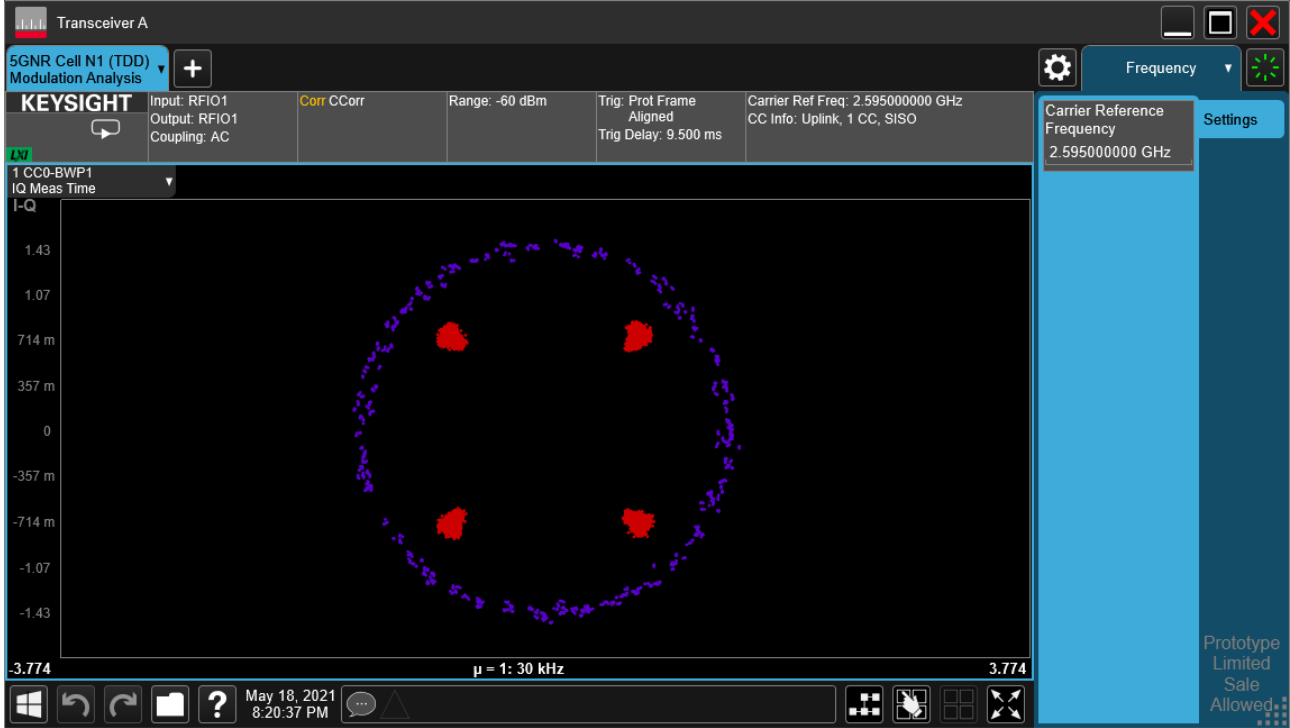
3 Modulation Characteristics

3.1 Test Plots

3.1.1 Test Band = N38

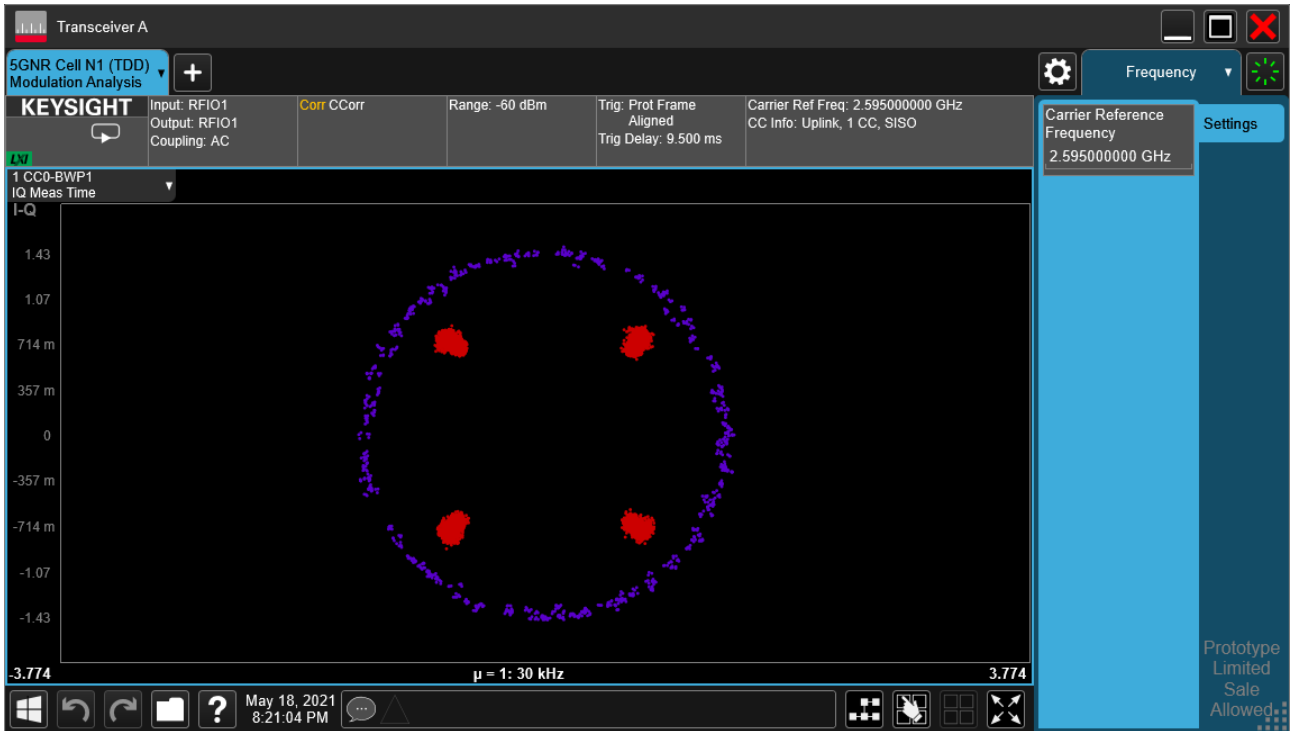
3.1.1.1 Test Mode = TM1 20MHz

3.1.1.1.1 Test Channel = MCH

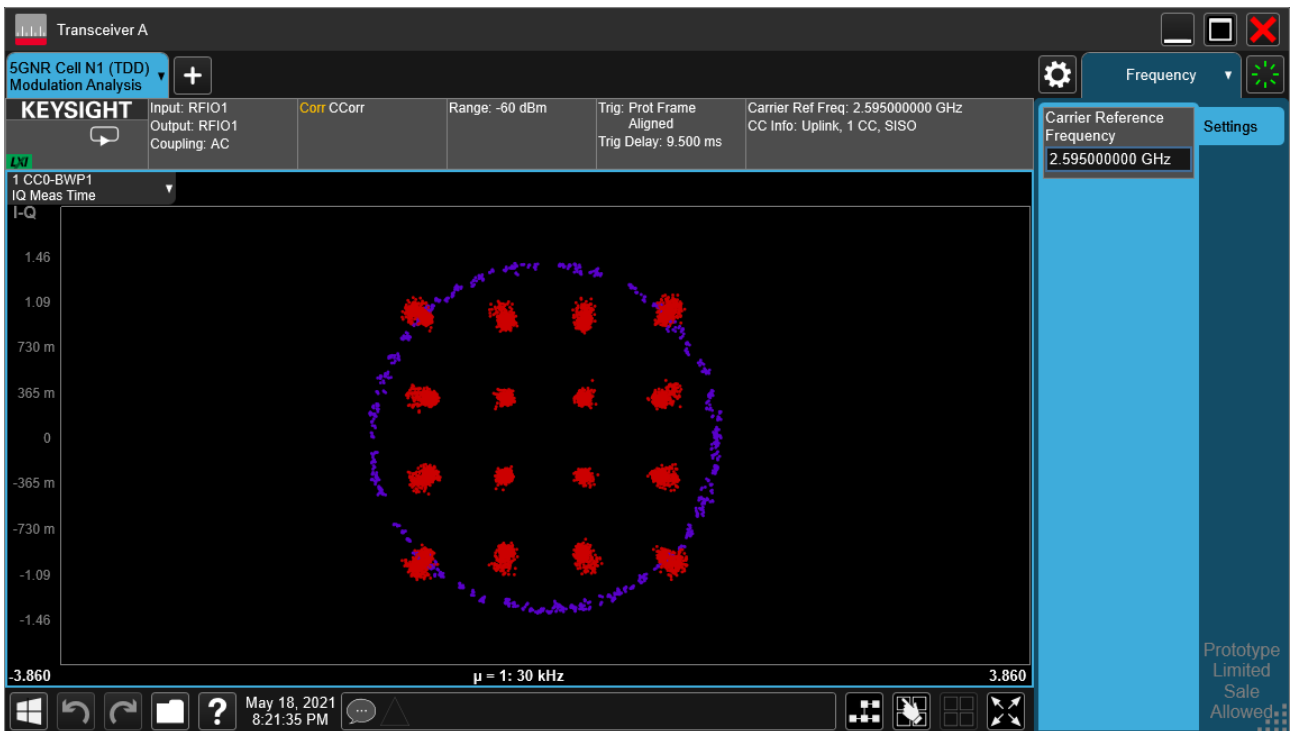


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3.1.1.2 Test Mode = TM2 20MHz
3.1.1.2.1 Test Channel = MCH



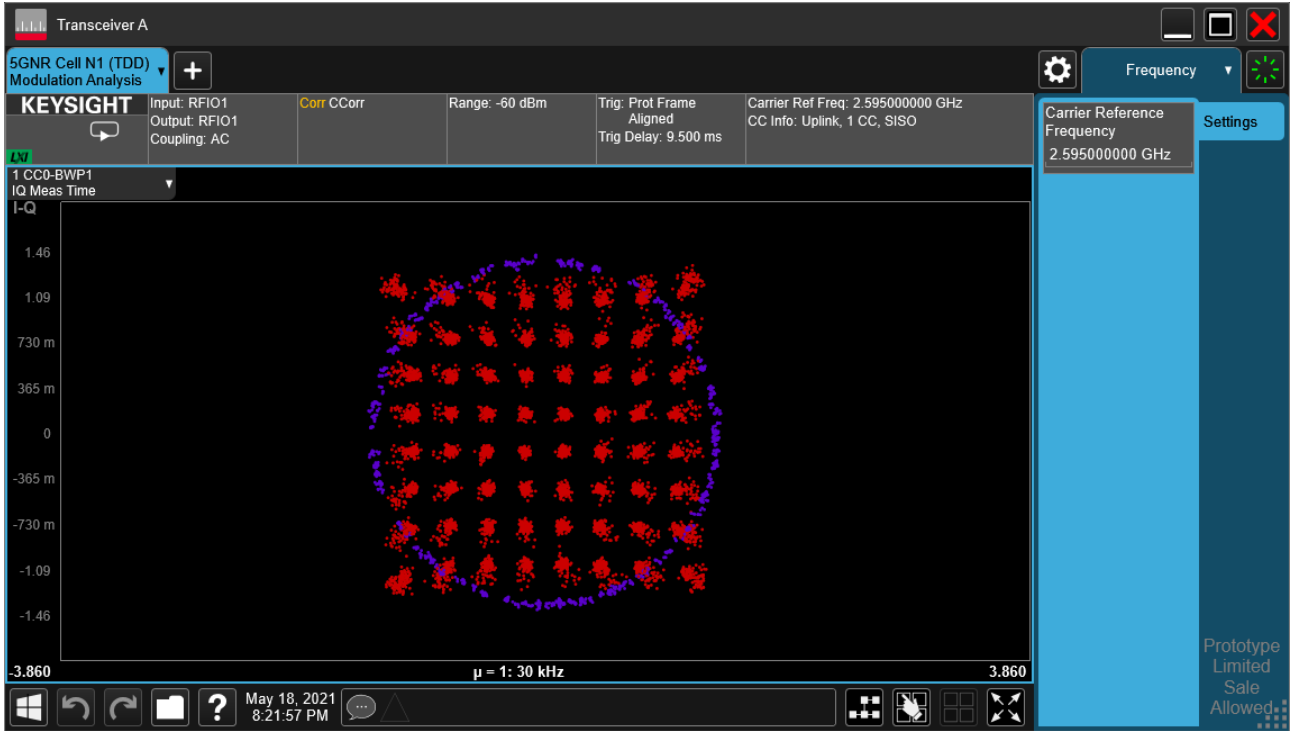
3.1.1.3 Test Mode = TM3 20MHz
3.1.1.3.1 Test Channel = MCH



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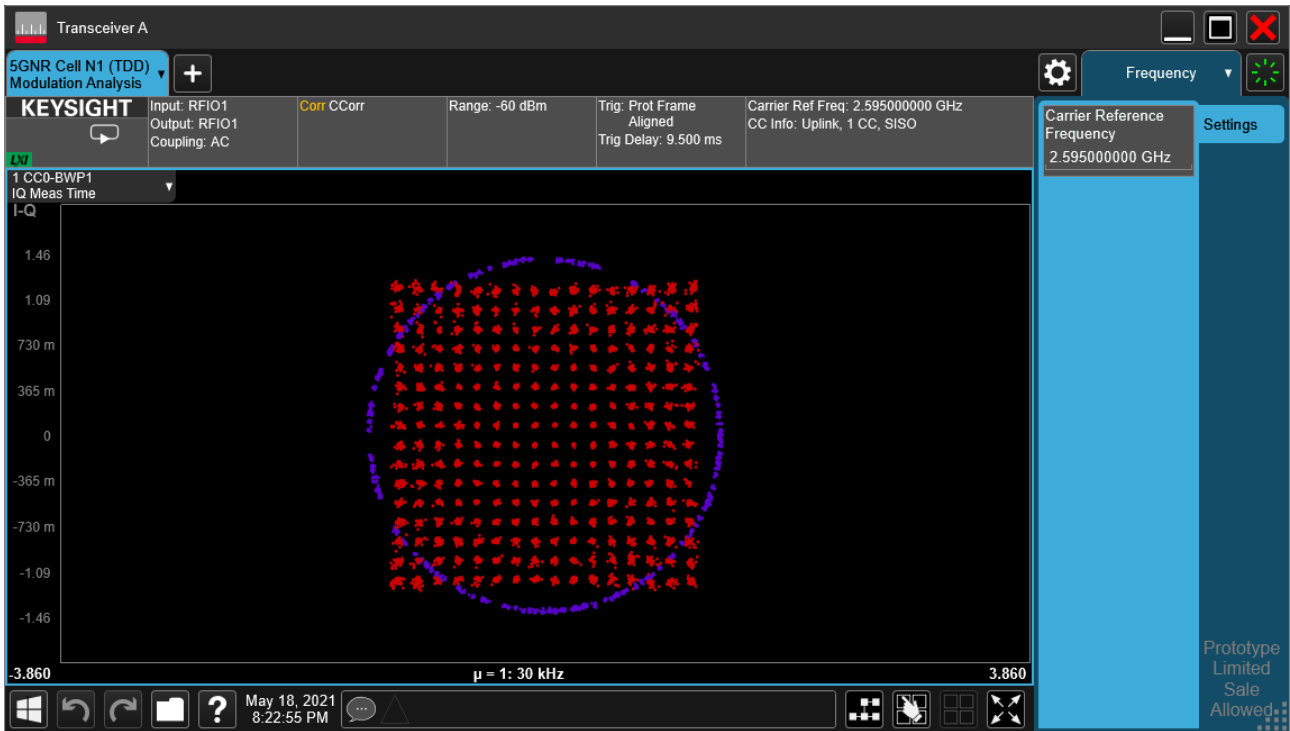
3.1.1.4 Test Mode = TM4 20MHz

3.1.1.4.1 Test Channel = MCH



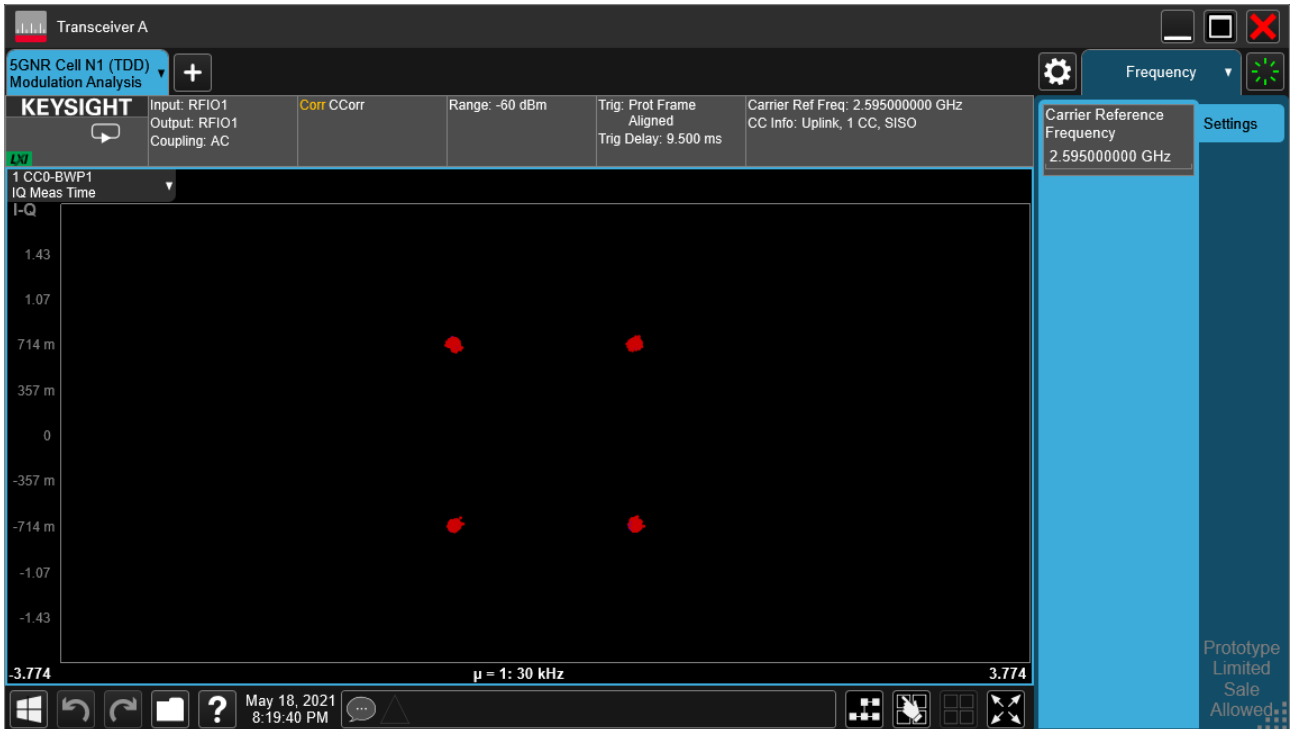
3.1.1.5 Test Mode = TM5 20MHz

3.1.1.5.1 Test Channel = MCH

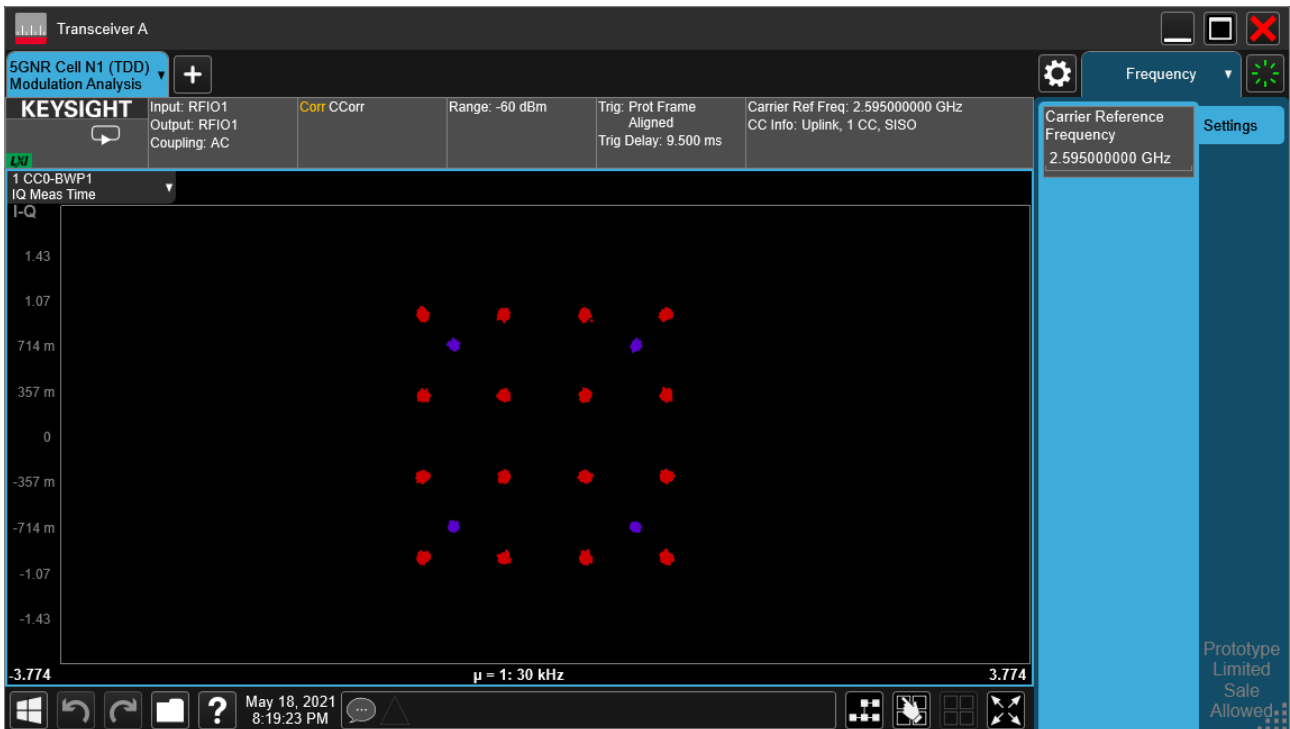


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3.1.1.6 Test Mode = TM6 20MHz
3.1.1.6.1 Test Channel = MCH

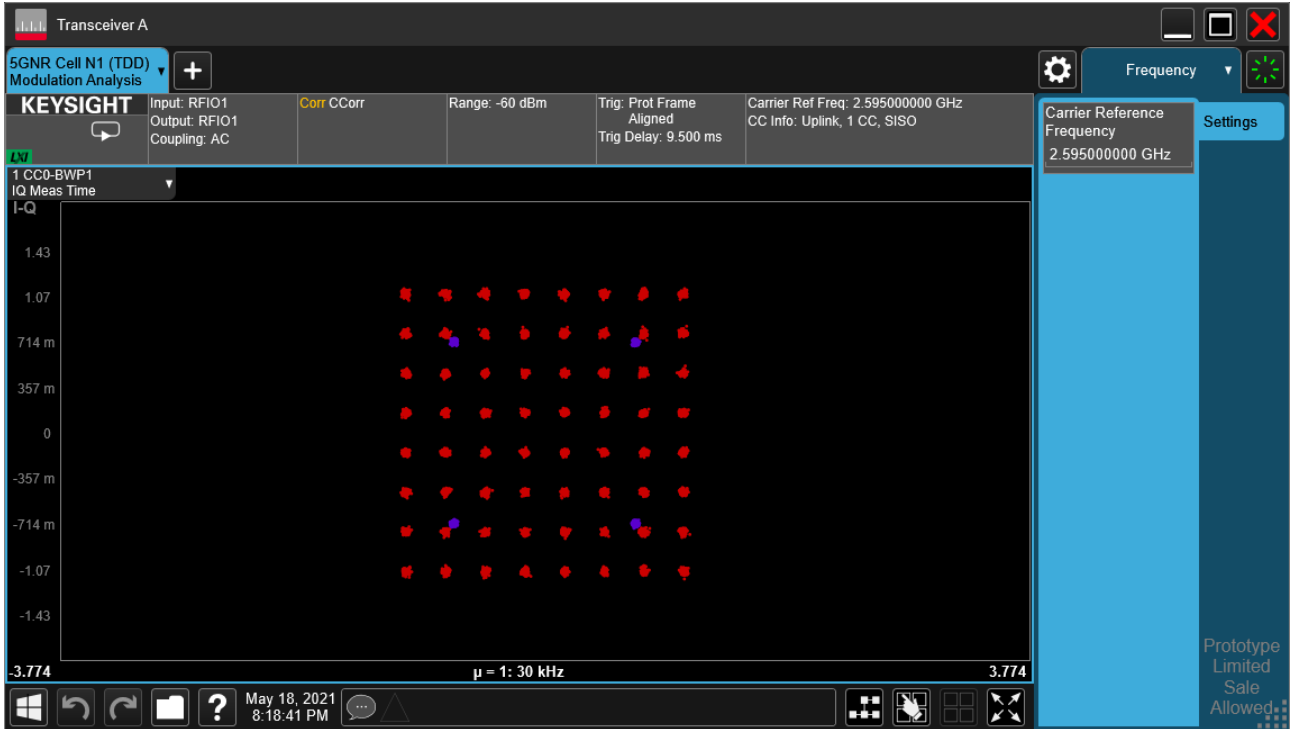


3.1.1.7 Test Mode = TM7 20MHz
3.1.1.7.1 Test Channel = MCH

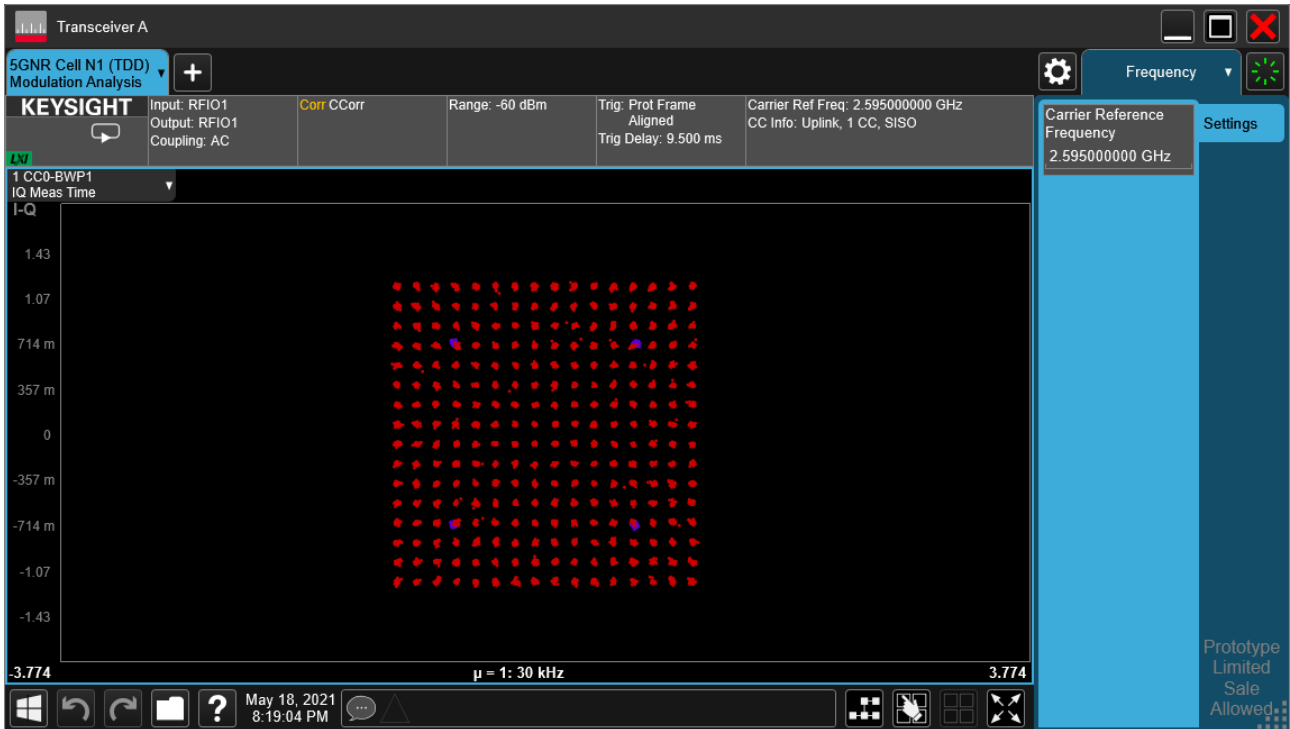


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3.1.1.8 Test Mode = TM8 20MHz
3.1.1.8.1 Test Channel = MCH



3.1.1.9 Test Mode = TM9 20MHz
3.1.1.9.1 Test Channel = MCH



REMARK:

All antenna and all modulation had been tested, but only the worst case data displayed in this report



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4 Occupied Bandwidth & 26dB Emission Bandwidth

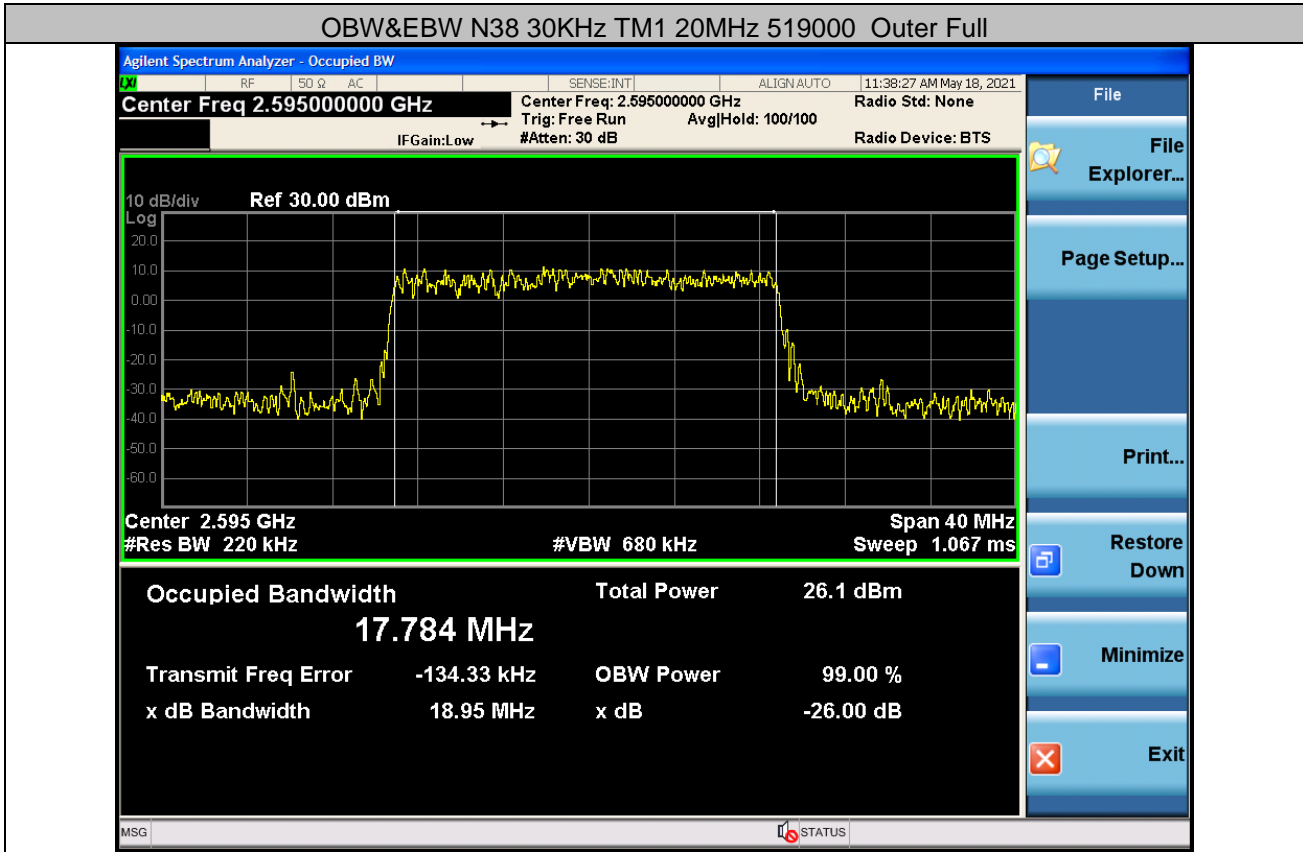
4.1 Test Results

NR Band	Bandwidth	SCS	Modulation	Channel	RB Config	OBW (MHz)	EBW (MHz)	Verdict
N38	20MHz	30KHz	TM1	519000	Outer Full	17.78	18.95	PASS
N38	20MHz	30KHz	TM2	519000	Outer Full	17.82	18.69	PASS
N38	20MHz	30KHz	TM3	519000	Outer Full	17.90	18.73	PASS
N38	20MHz	30KHz	TM4	519000	Outer Full	17.81	18.71	PASS
N38	20MHz	30KHz	TM5	519000	Outer Full	17.76	18.69	PASS
N38	20MHz	30KHz	TM6	519000	Outer Full	17.81	18.59	PASS
N38	20MHz	30KHz	TM7	519000	Outer Full	17.92	18.64	PASS
N38	20MHz	30KHz	TM8	519000	Outer Full	17.77	18.68	PASS
N38	20MHz	30KHz	TM9	519000	Outer Full	17.79	18.75	PASS



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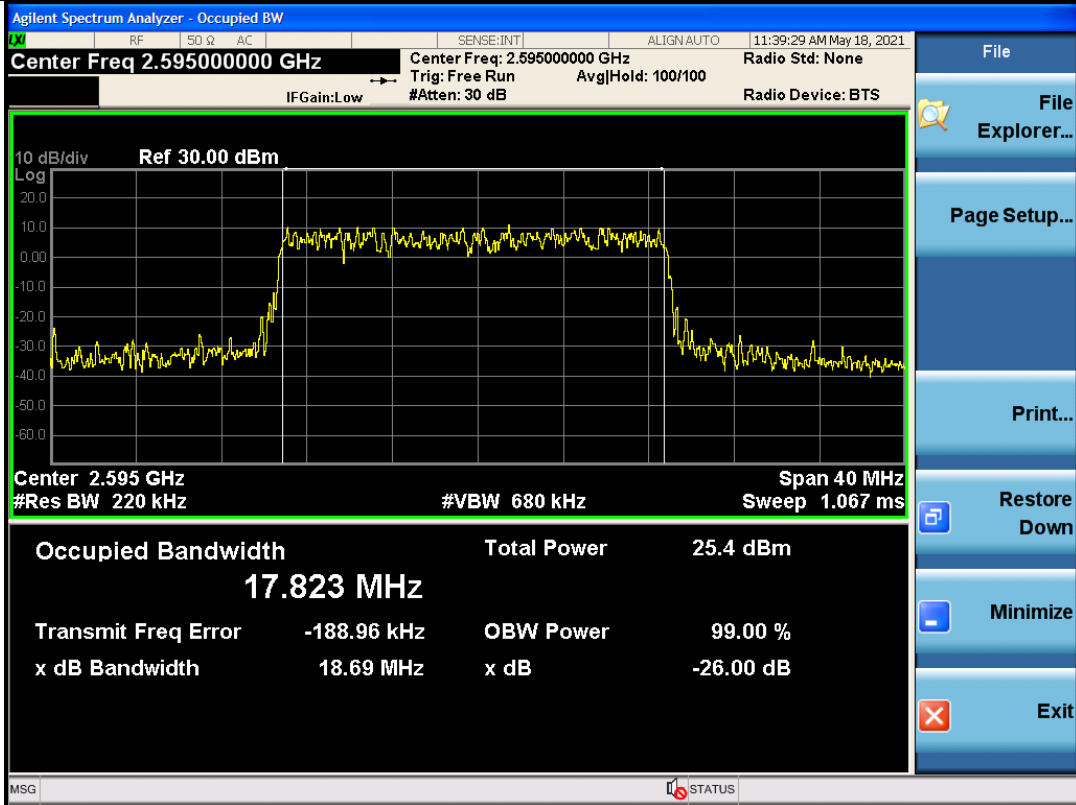
4.2 Test Plots



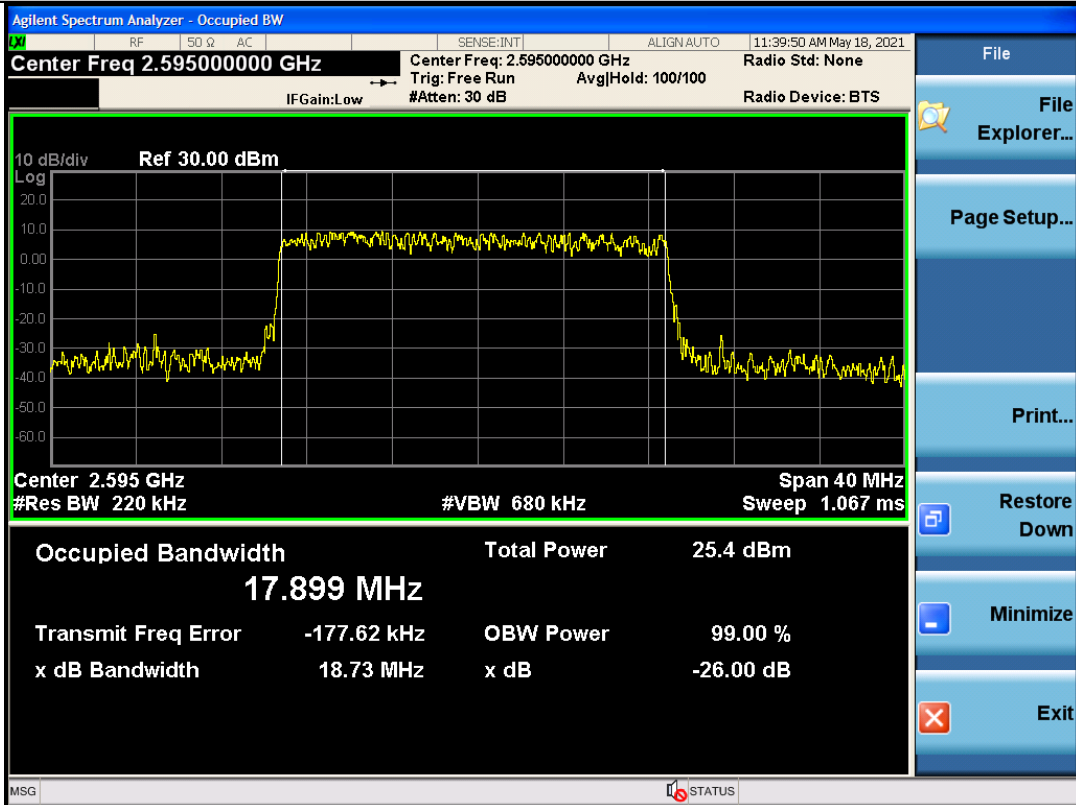
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OBW&EBW N38 30KHz TM2 20MHz 519000 Outer Full

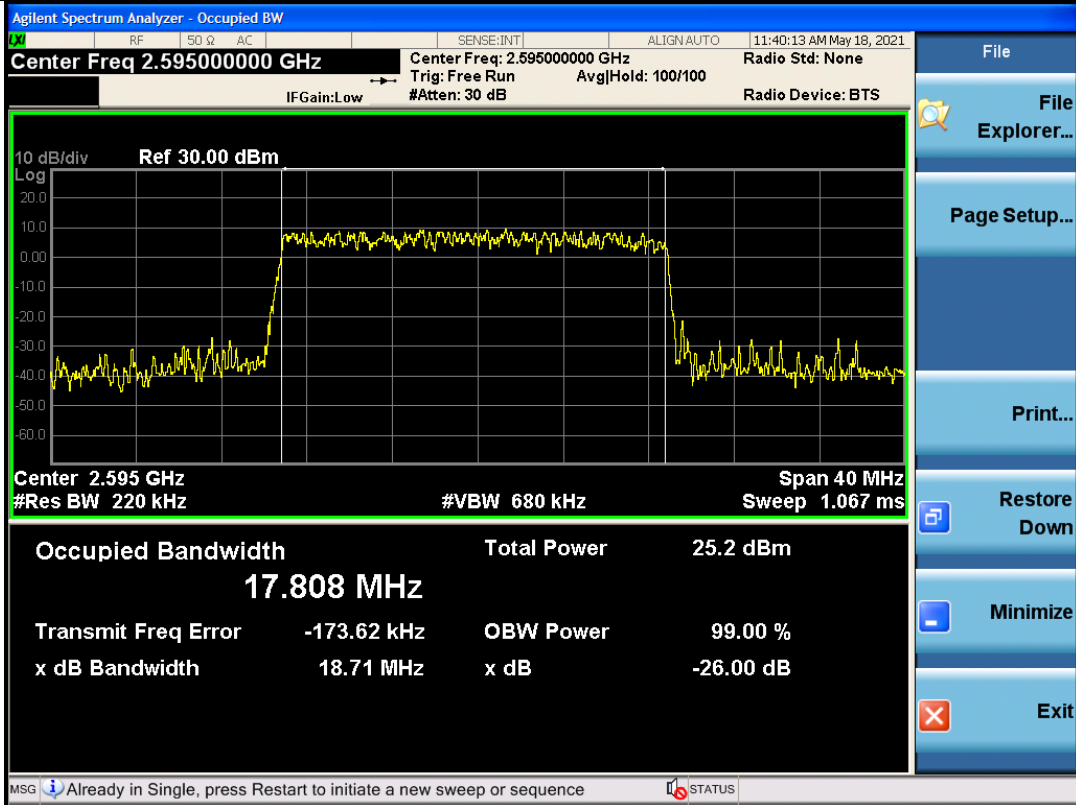


OBW&EBW N38 30KHz TM3 20MHz 519000 Outer Full

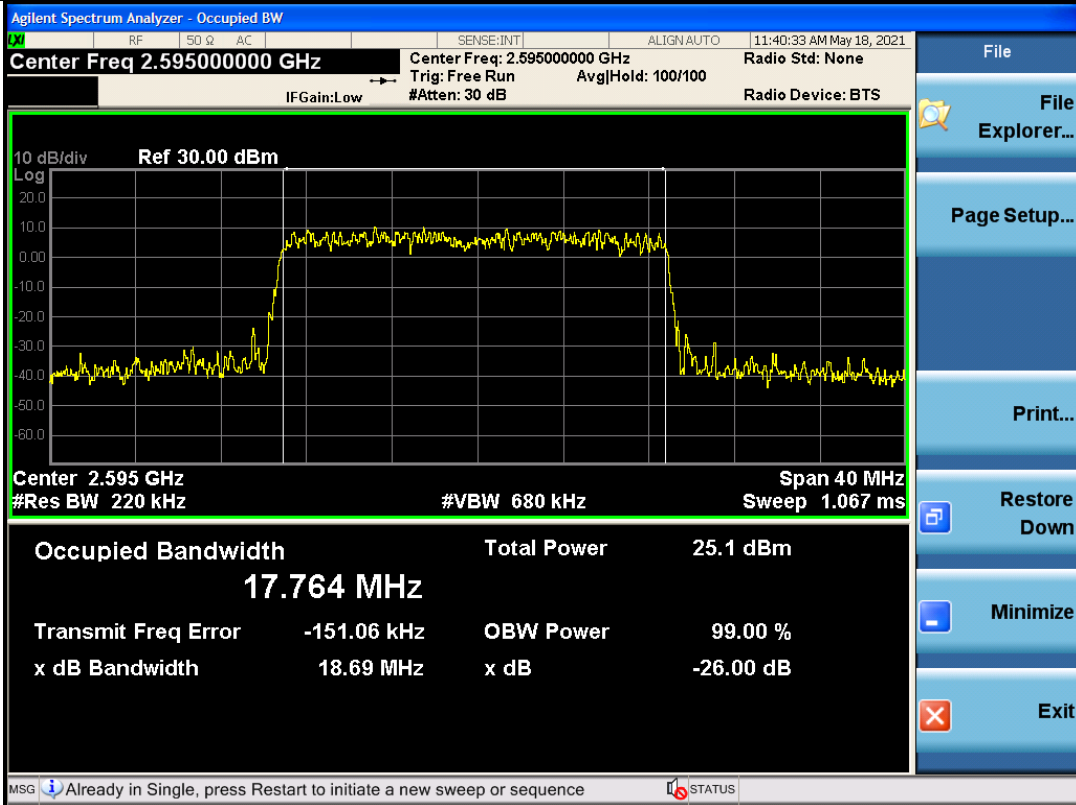


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OBW&EBW N38 30KHz TM4 20MHz 519000 Outer Full



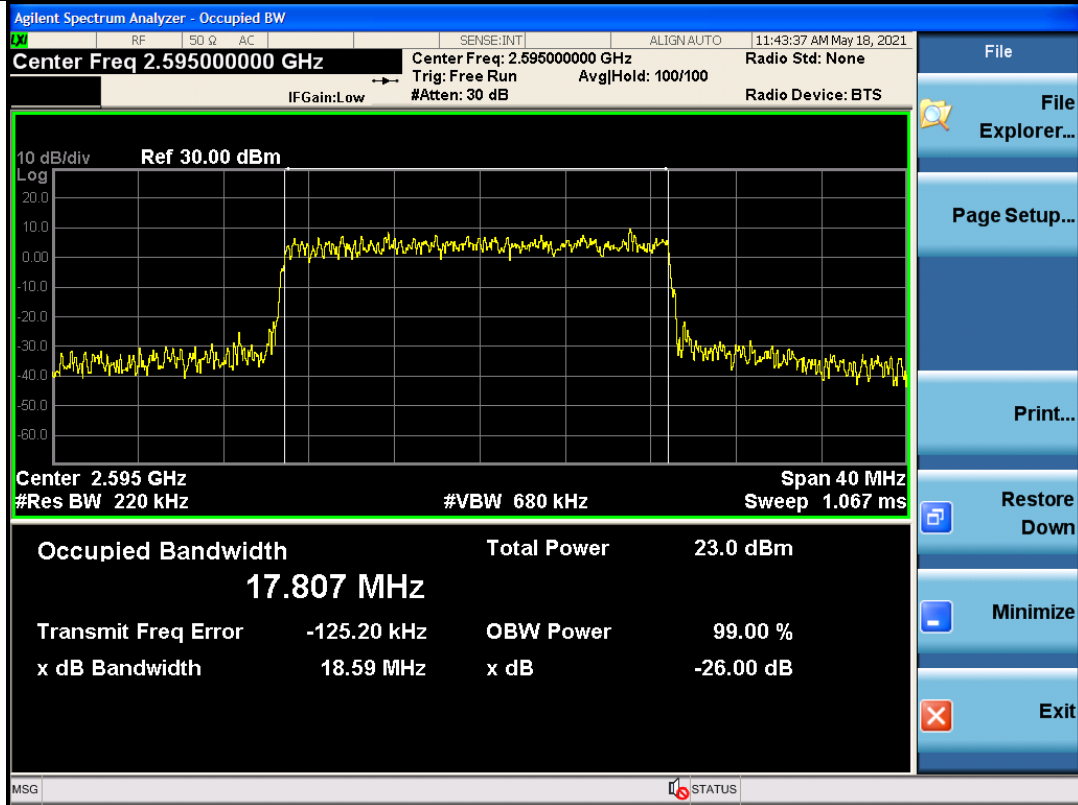
OBW&EBW N38 30KHz TM5 20MHz 519000 Outer Full



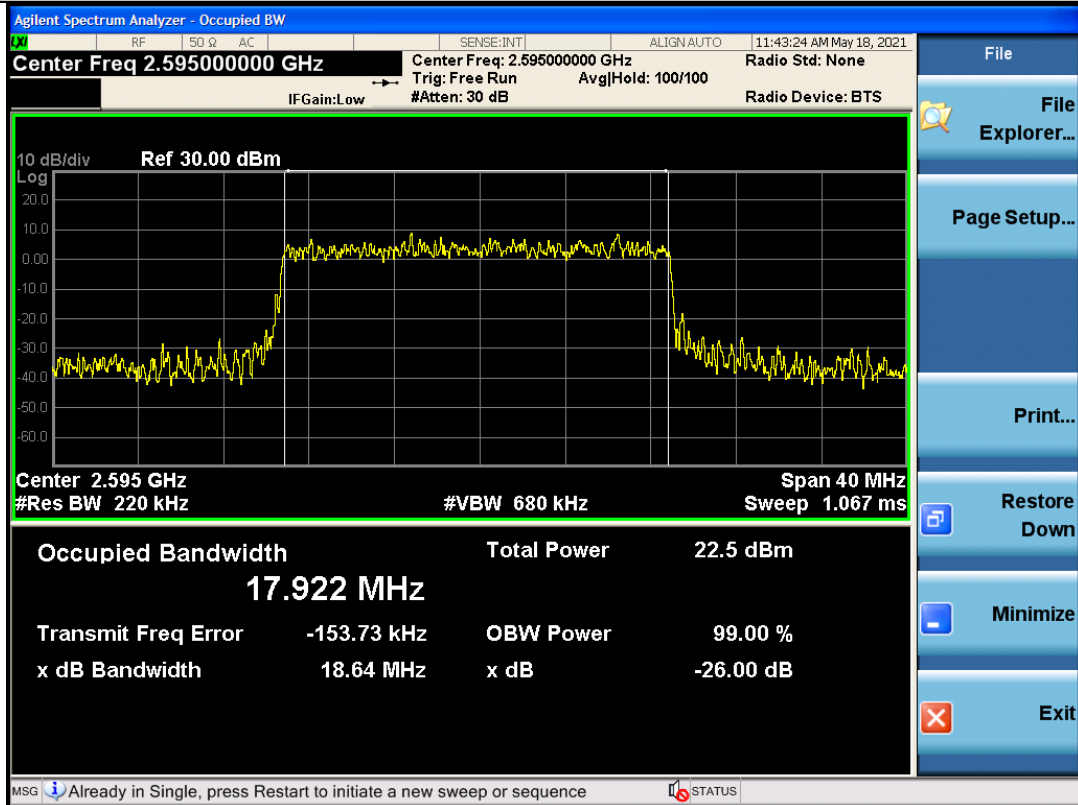
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OBW&EBW N38 30KHz TM6 20MHz 519000 Outer Full



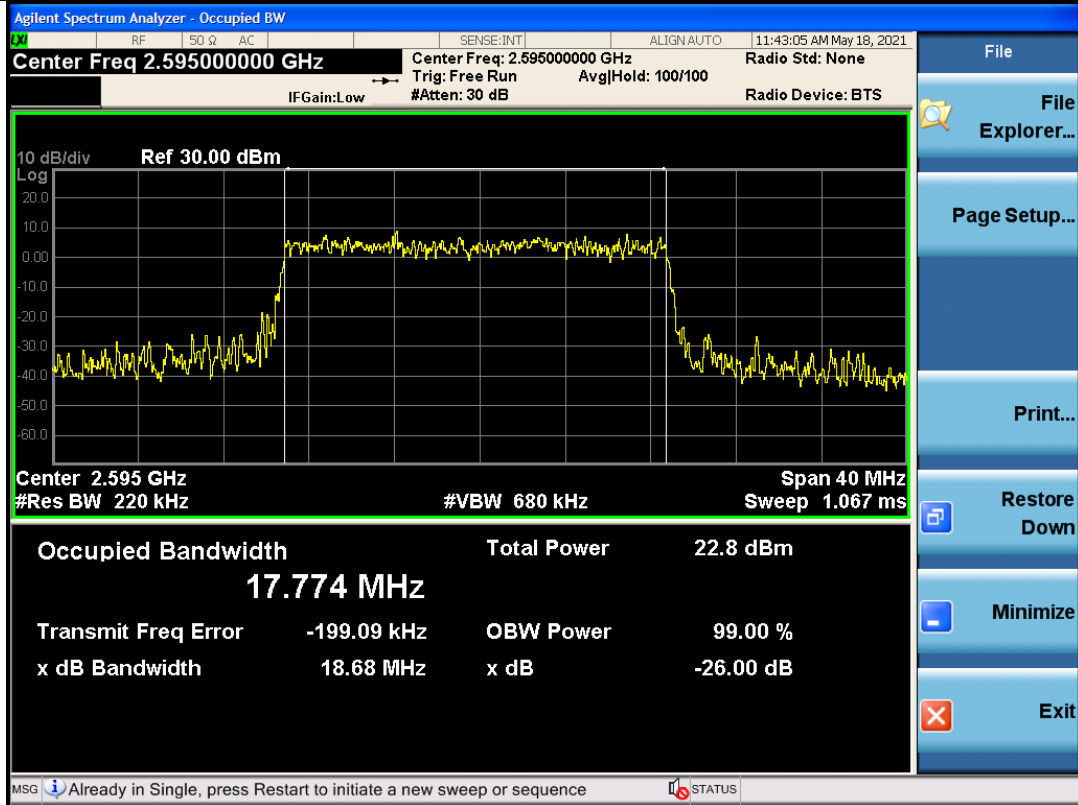
OBW&EBW N38 30KHz TM7 20MHz 519000 Outer Full



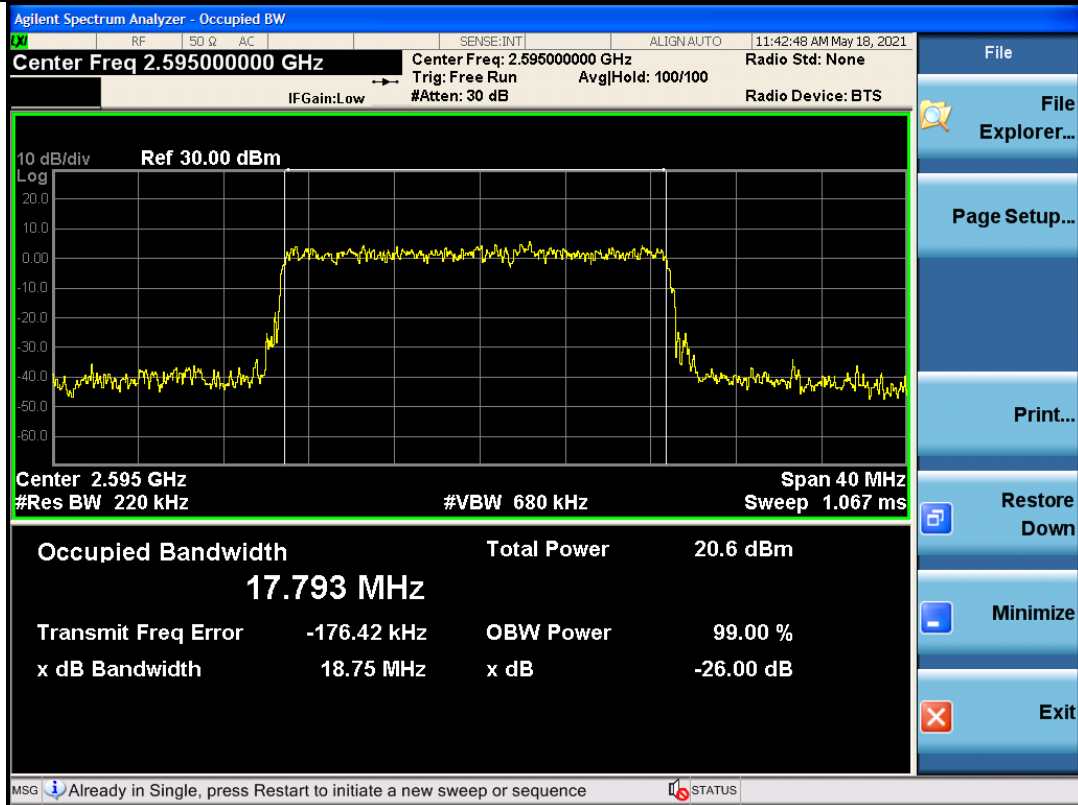
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OBW&EBW N38 30KHz TM8 20MHz 519000 Outer Full



OBW&EBW N38 30KHz TM9 20MHz 519000 Outer Full



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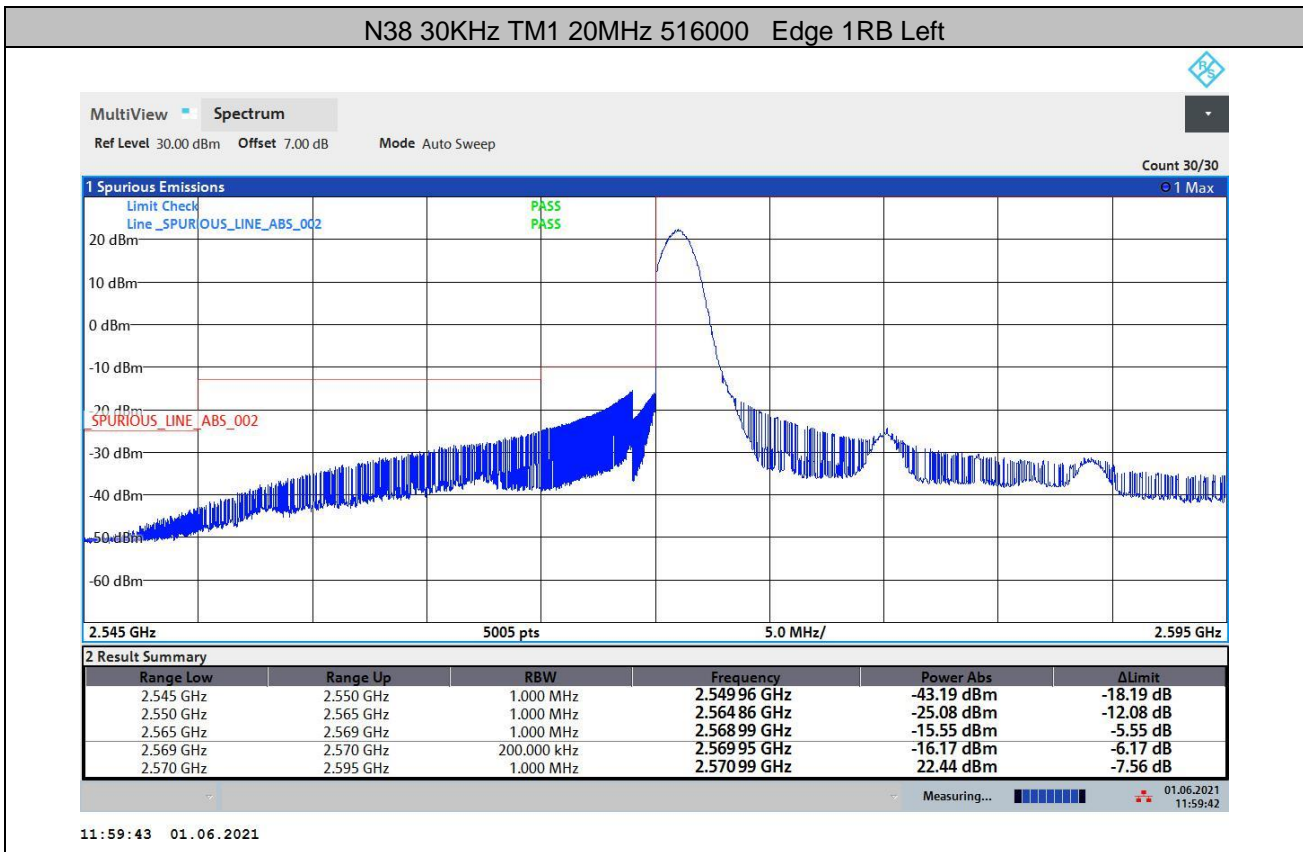
All antenna and all modulation had been tested, but only the worst case data displayed in this report



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5 Band Edges Compliance

5.1 Test Plots



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N38 30kHz TM1 20MHz 516000 Outer Full



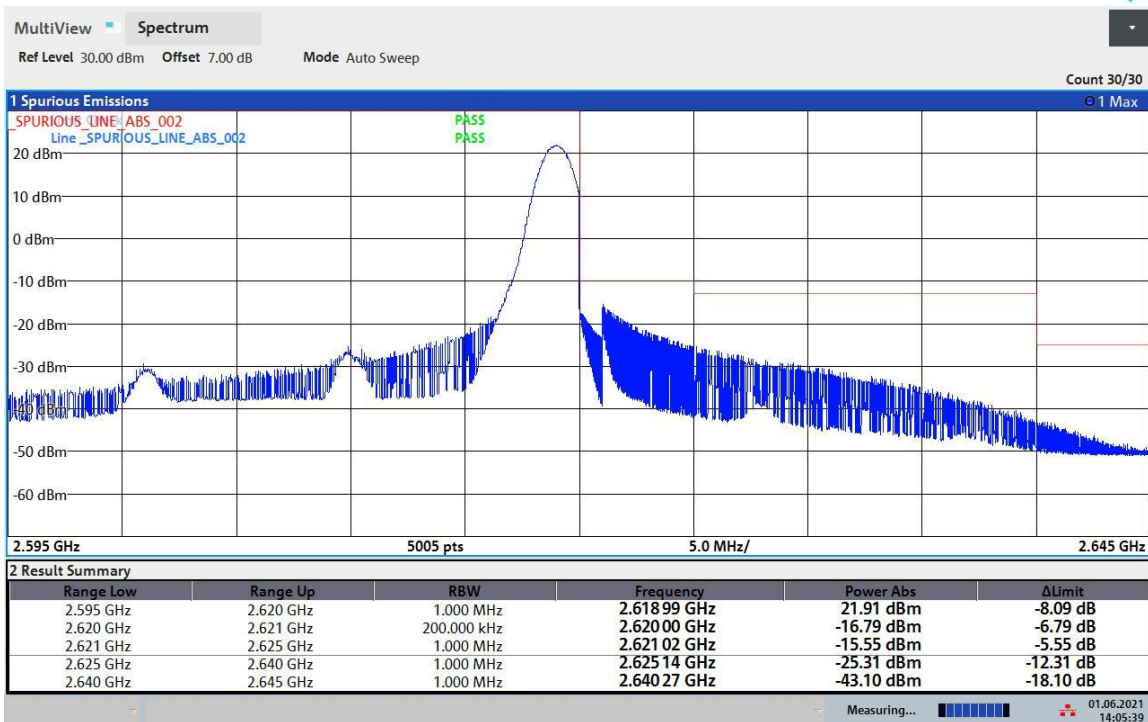
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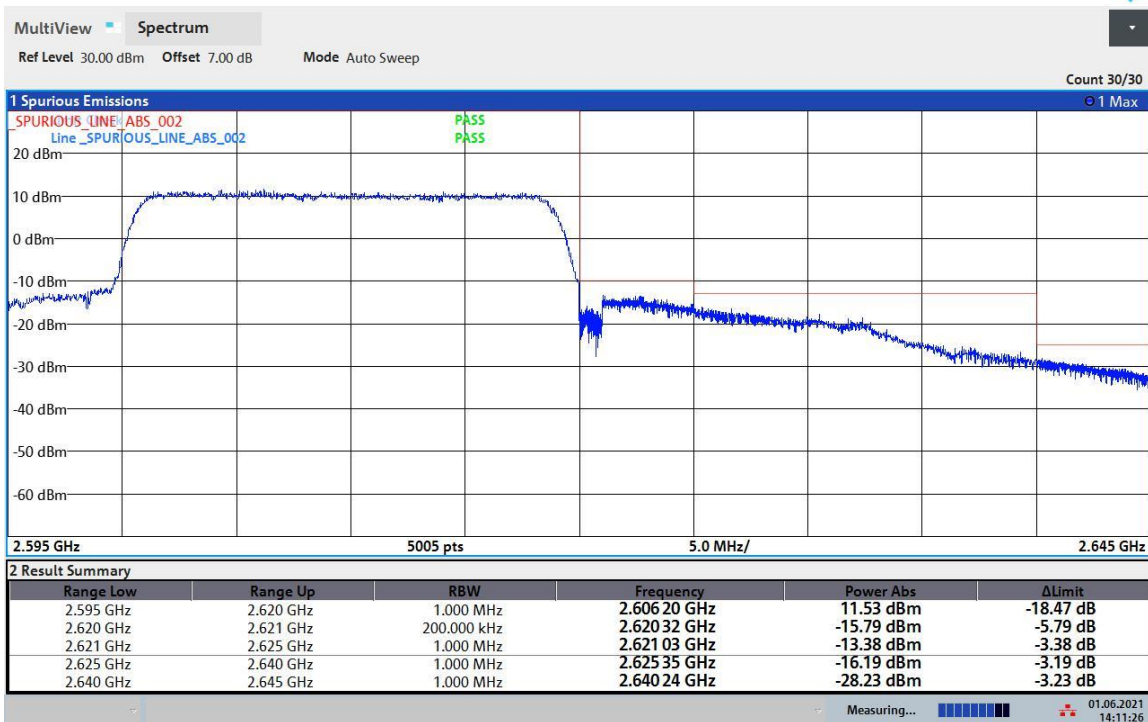


N38 30KHz TM1 20MHz 522000 Edge 1RB Right



14:05:40 01.06.2021

N38 30KHz TM1 20MHz 522000 Outer Full

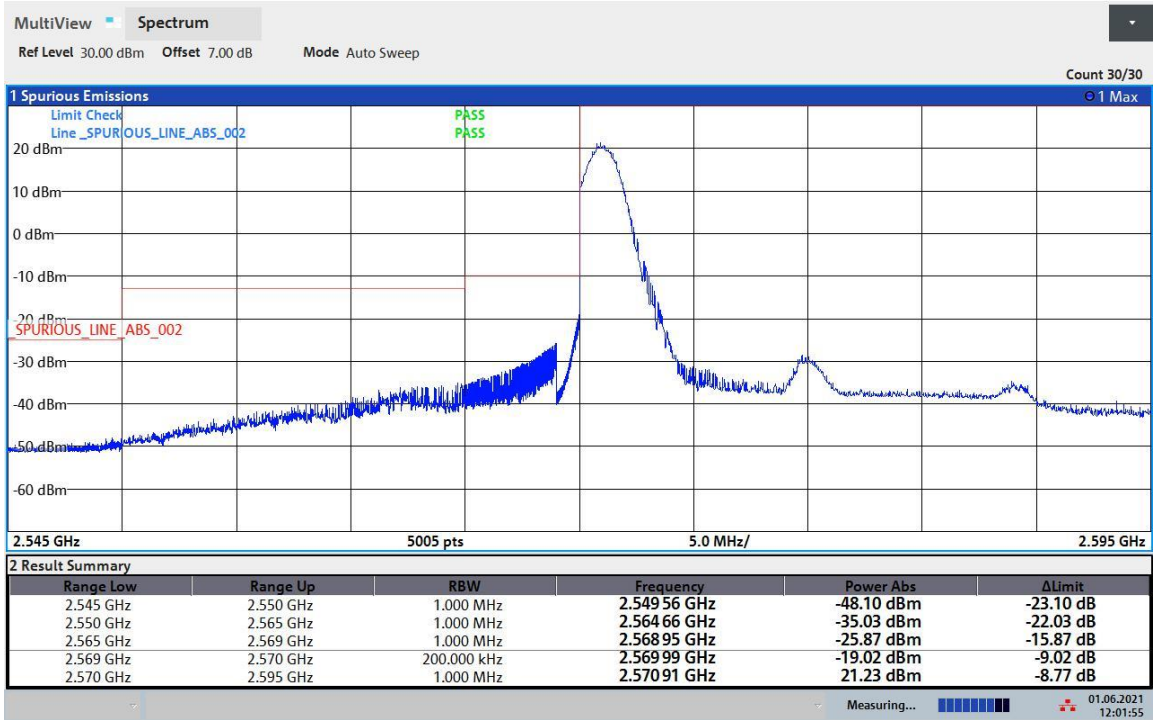


14:11:27 01.06.2021



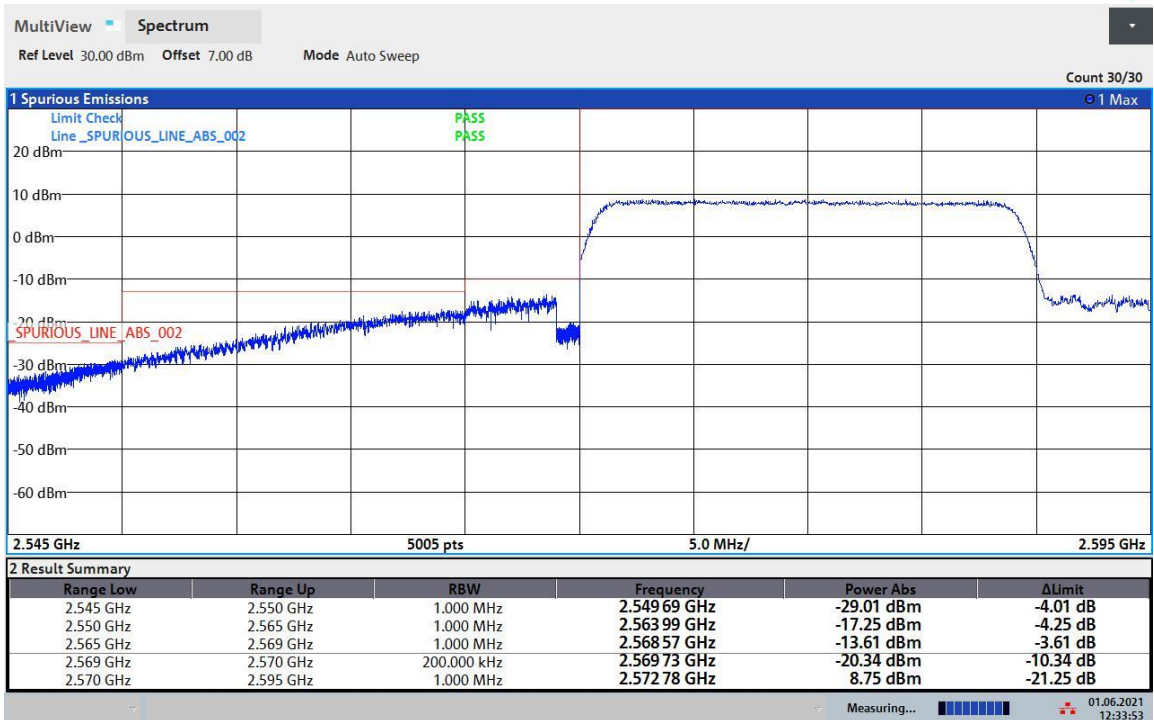
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N38 30KHz TM6 20MHz 516000 Edge 1RB Left



12:01:55 01.06.2021

N38 30KHz TM6 20MHz 516000 Outer Full



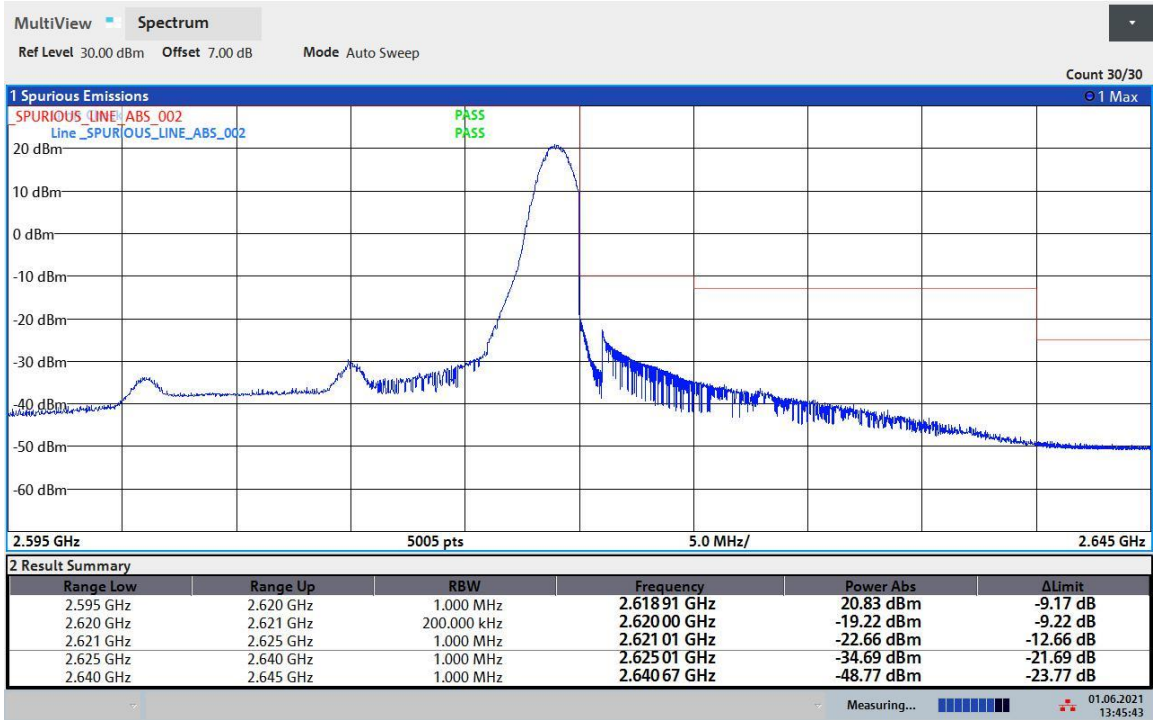
12:33:54 01.06.2021



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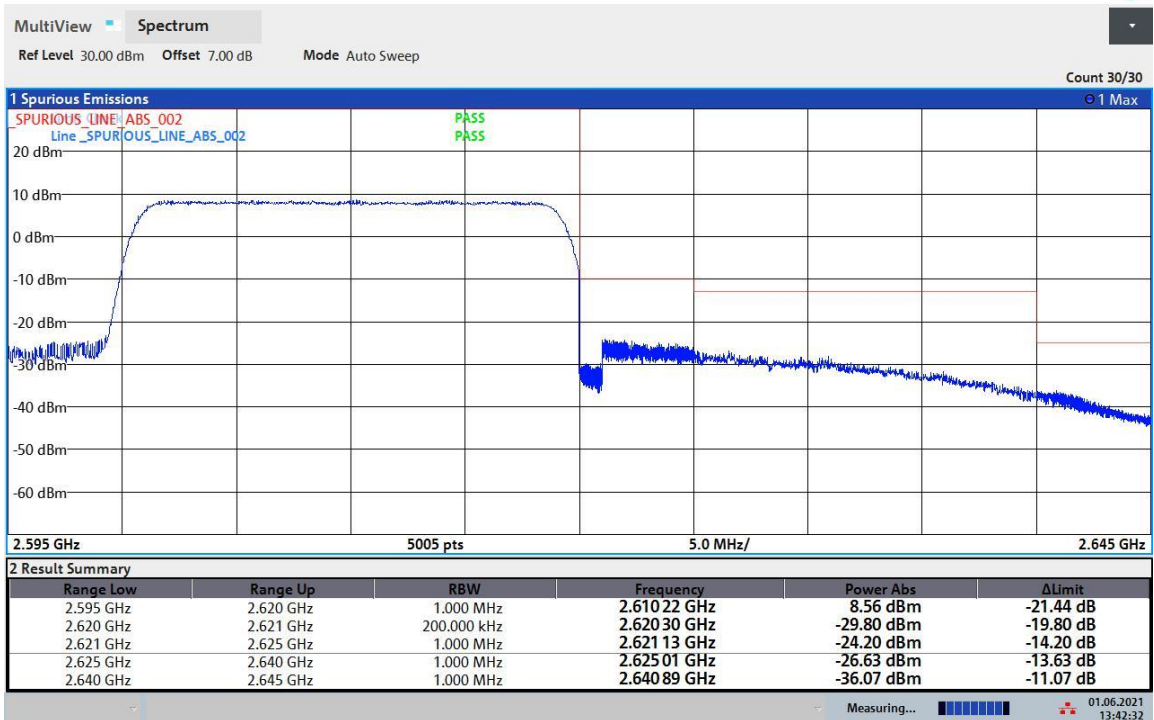
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N38 30KHz TM6 20MHz 522000 Edge 1RB Right



13:45:44 01.06.2021

N38 30KHz TM6 20MHz 522000 Outer Full



13:42:33 01.06.2021



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REMARK:

All antenna and all modulation had been tested, but only the worst case data displayed in this report

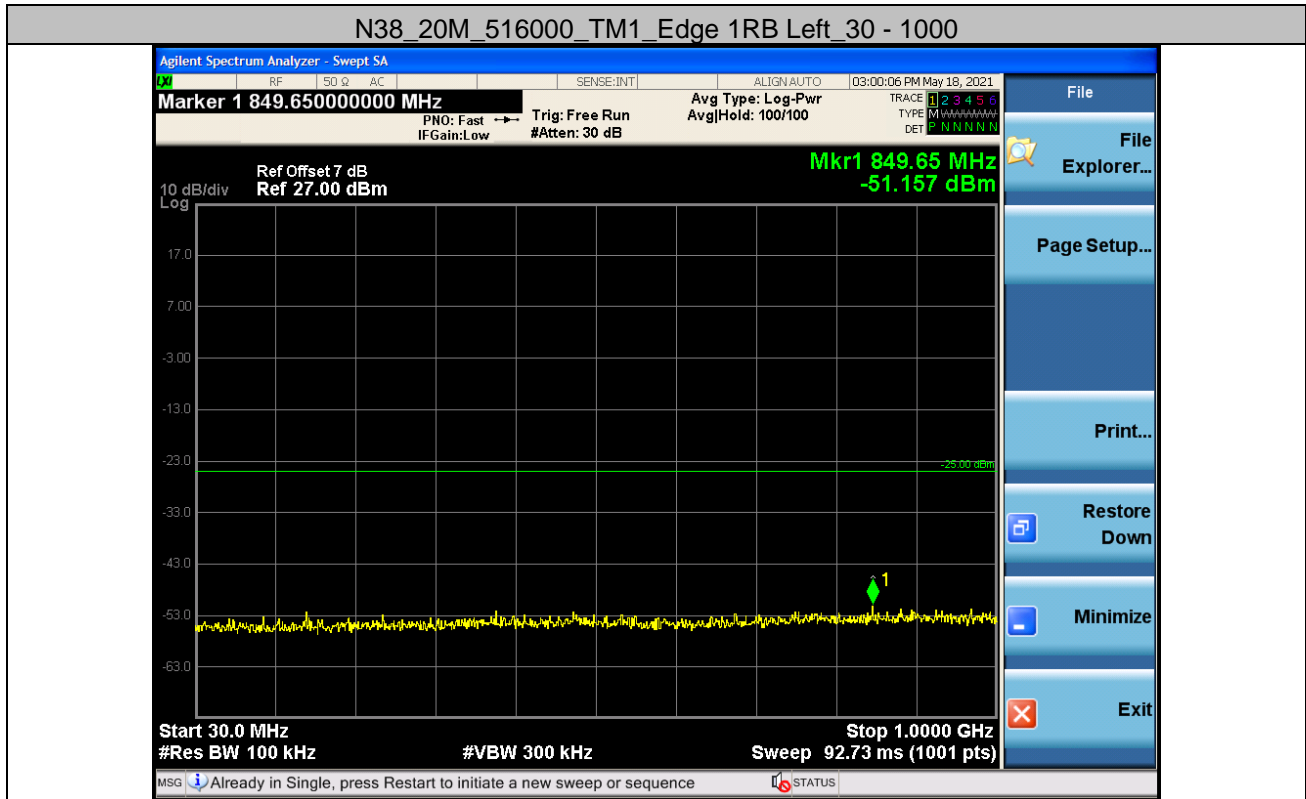


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6 Spurious Emission at Antenna Terminal

REMARK: 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 narrow Band signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

6.1 Test Plots



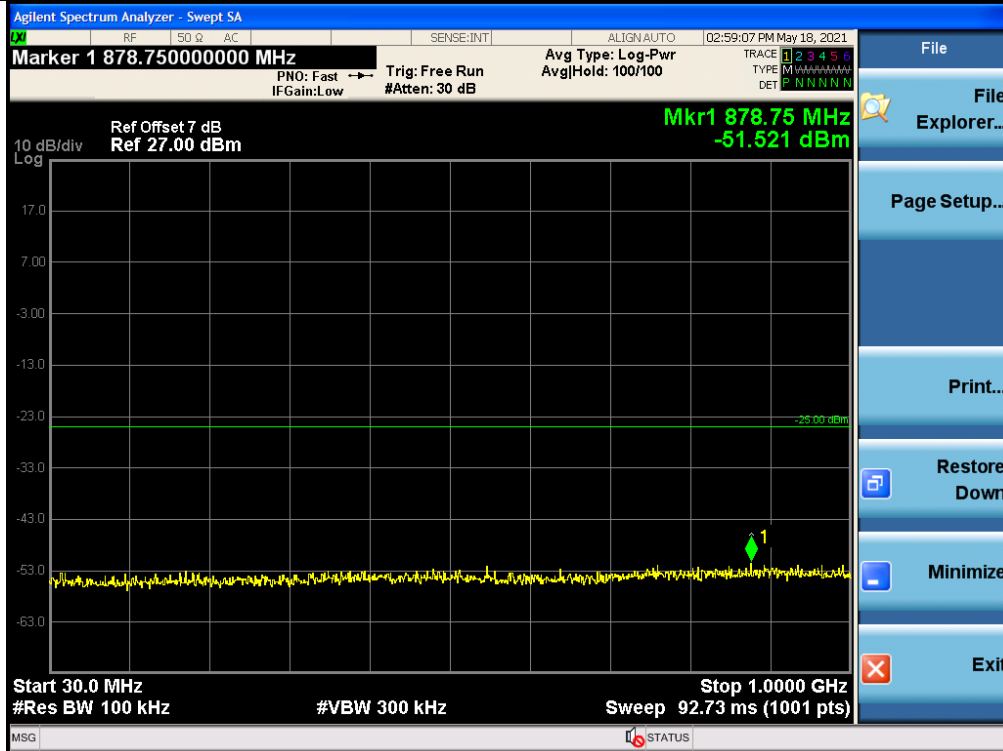
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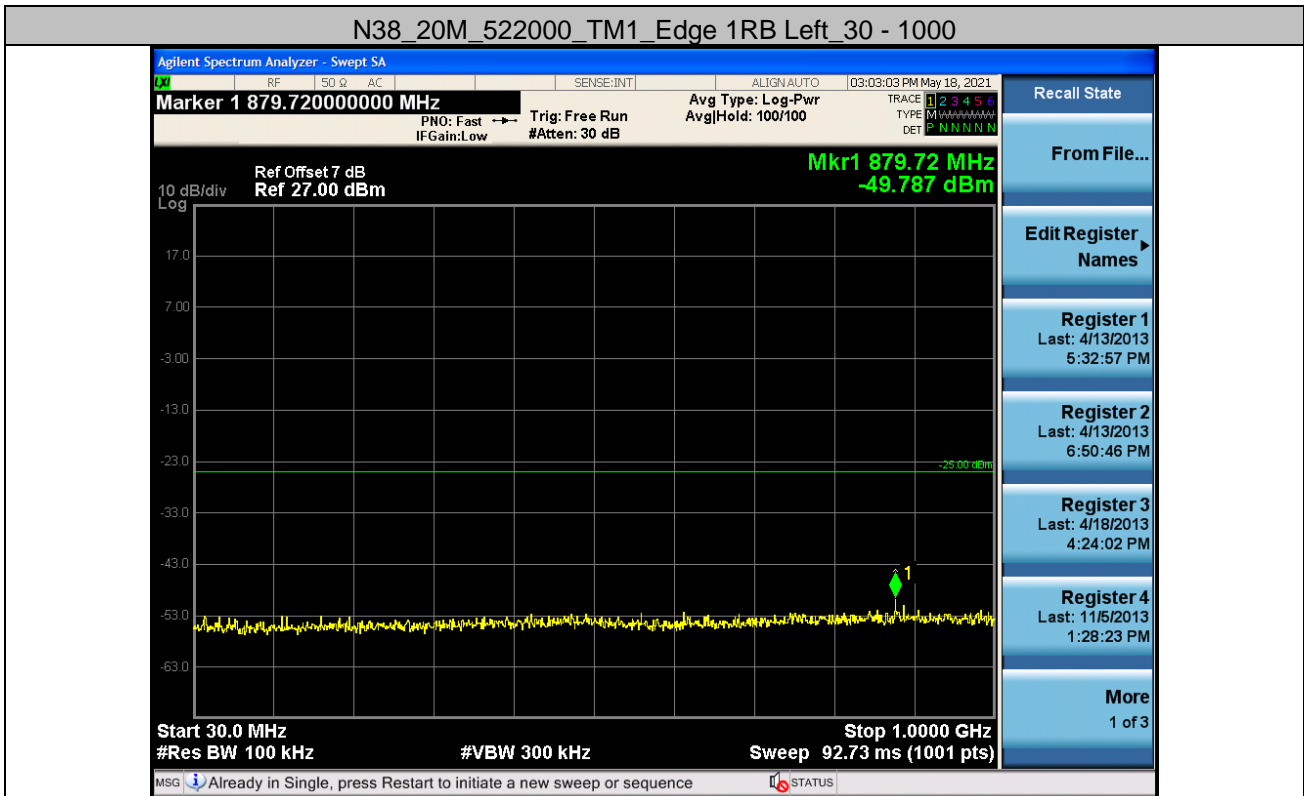
N38_20M_519000_TM1_Edge 1RB Left_30 - 1000



N38_20M_519000_TM1_Edge 1RB Left_1000 - 265000



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REMARK:

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7 Field Strength of Spurious Radiation

7.1. Test Band = SA N38_TM1 ANT3

7.1.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1262.0328	21.04	-49.35	-25.00	24.35	Horizontal
2	2780.2225	21.45	-44.32	-25.00	19.32	Horizontal
3	5504.3752	49.59	-58.41	-25.00	33.41	Horizontal
4	9037.8019	47.21	-51.87	-25.00	26.87	Horizontal
5	12918.4959	46.04	-47.39	-25.00	22.39	Horizontal
6	17913.7457	47.64	-45.31	-25.00	20.31	Horizontal



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7.2. Test Band = SA N38 _TM1 ANT3

7.2.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1388.0485	22.22	-48.05	-25.00	23.05	Vertical
2	2930.7413	22.77	-41.94	-25.00	16.94	Vertical
3	7452.9726	50.18	-52.24	-25.00	27.24	Vertical
4	11235.4118	48.30	-47.49	-25.00	22.49	Vertical
5	15016.3508	46.29	-45.37	-25.00	20.37	Vertical
6	17987.2494	49.32	-44.29	-25.00	19.29	Vertical



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7.3. Test Band = SA N38_TM1 ANT3

7.3.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1275.0344	21.57	-48.94	-25.00	23.94	Horizontal
2	2769.4712	21.95	-43.93	-25.00	18.93	Horizontal
3	5557.6279	50.23	-57.67	-25.00	32.67	Horizontal
4	9592.0796	46.90	-51.41	-25.00	26.41	Horizontal
5	15005.8503	44.88	-46.68	-25.00	21.68	Horizontal
6	17978.9990	48.45	-44.99	-25.00	19.99	Horizontal



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7.4. Test Band = SA N38_TM1 ANT3

7.4.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1193.0241	20.79	-49.79	-25.00	24.79	Vertical
2	2924.4906	20.60	-44.20	-25.00	19.20	Vertical
3	5478.1239	48.99	-59.06	-25.00	34.06	Vertical
4	7483.7242	48.17	-53.99	-25.00	28.99	Vertical
5	12445.9723	45.64	-48.15	-25.00	23.15	Vertical
6	17986.4993	46.92	-46.68	-25.00	21.68	Vertical



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7.5. Test Band = SA N38_TM1 ANT3

7.5.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1328.7911	20.86	-49.48	-25.00	24.48	Horizontal
2	2820.4776	21.10	-44.45	-25.00	19.45	Horizontal
3	3777.7889	52.41	-62.18	-25.00	37.18	Horizontal
4	7347.9674	48.01	-54.98	-25.00	29.98	Horizontal
5	15026.8513	45.73	-46.03	-25.00	21.03	Horizontal
6	17895.7448	47.35	-45.75	-25.00	20.75	Horizontal



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7.6. Test Band = SA N38_TM1 ANT3

7.6.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1275.2844	21.58	-48.92	-25.00	23.92	Vertical
2	2936.7421	21.83	-42.91	-25.00	17.91	Vertical
3	5499.8750	50.27	-57.74	-25.00	32.74	Vertical
4	7474.7237	49.47	-52.77	-25.00	27.77	Vertical
5	16397.1699	47.65	-46.15	-25.00	21.15	Vertical
6	17982.7491	48.36	-45.16	-25.00	20.16	Vertical



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7.7. Test Band = SA N38_TM1 ANT4

7.7.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1152.2690	20.85	-49.40	-25.00	24.40	Horizontal
2	2767.2209	20.95	-44.93	-25.00	19.93	Horizontal
3	7375.7188	48.31	-54.69	-25.00	29.69	Horizontal
4	10621.1311	46.27	-50.58	-25.00	25.58	Horizontal
5	15011.1006	43.91	-47.70	-25.00	22.70	Horizontal
6	17993.2497	47.22	-46.52	-25.00	21.52	Horizontal



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7.8. Test Band = SA N38 _TM1 ANT4

7.8.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1151.7690	20.60	-49.63	-25.00	24.63	Vertical
2	2932.2415	21.02	-43.70	-25.00	18.70	Vertical
3	7374.9687	47.86	-55.14	-25.00	30.14	Vertical
4	11314.9157	45.39	-50.48	-25.00	25.48	Vertical
5	14411.8206	44.53	-47.94	-25.00	22.94	Vertical
6	17931.7466	46.45	-46.44	-25.00	21.44	Vertical



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7.9. Test Band = SA N38_TM1 ANT4

7.9.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1153.2692	20.64	-49.63	-25.00	24.63	Horizontal
2	2866.7333	21.11	-44.20	-25.00	19.20	Horizontal
3	7474.7237	47.87	-54.37	-25.00	29.37	Horizontal
4	9030.3015	47.14	-51.91	-25.00	26.91	Horizontal
5	13021.2511	44.81	-47.76	-25.00	22.76	Horizontal
6	16462.4231	46.87	-47.75	-25.00	22.75	Horizontal



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7.10. Test Band = SA N38 _TM1 ANT4

7.10.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1150.5188	20.65	-49.55	-25.00	24.55	Vertical
2	2902.9879	20.48	-44.60	-25.00	19.60	Vertical
3	5688.1344	49.14	-57.80	-25.00	32.80	Vertical
4	12304.9652	45.12	-48.94	-25.00	23.94	Vertical
5	15011.8506	44.33	-47.28	-25.00	22.28	Vertical
6	17932.4966	46.41	-46.48	-25.00	21.48	Vertical



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7.11. Test Band = SA N38_TM1 ANT4

7.11.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1197.5247	20.69	-50.01	-25.00	25.01	Horizontal
2	2952.7441	20.96	-43.75	-25.00	18.75	Horizontal
3	7908.9955	47.86	-54.25	-25.00	29.25	Horizontal
4	13031.7516	44.24	-48.39	-25.00	23.39	Horizontal
5	15016.3508	44.48	-47.18	-25.00	22.18	Horizontal
6	16424.9212	46.99	-47.21	-25.00	22.21	Horizontal



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7.12. Test Band = SA N38 _TM1 ANT4

7.12.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1172.0215	20.73	-49.57	-25.00	24.57	Vertical
2	2934.4918	21.04	-43.69	-25.00	18.69	Vertical
3	5693.3847	48.55	-58.32	-25.00	33.32	Vertical
4	7357.7179	48.07	-54.87	-25.00	29.87	Vertical
5	12841.9921	44.69	-48.58	-25.00	23.58	Vertical
6	16874.1937	45.36	-48.50	-25.00	23.50	Vertical

REMARK:

All antenna and all modulation had been tested, but only the worst case data displayed in this report



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8 Frequency Stability

8.1 Frequency Error VS. Voltage

NR Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage [Vdc]	Temperature(°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
N38	30KHz	20MHz	TM1	516000	Outer Full	VL	NT	-3.02	-0.00117	±2.5	PASS
N38	30KHz	20MHz	TM1	516000	Outer Full	VN	NT	4.28	0.00166	±2.5	PASS
N38	30KHz	20MHz	TM1	516000	Outer Full	VH	NT	9.82	0.00381	±2.5	PASS
N38	30KHz	20MHz	TM1	519000	Outer Full	VL	NT	5.29	0.00204	±2.5	PASS
N38	30KHz	20MHz	TM1	519000	Outer Full	VN	NT	13.81	0.00532	±2.5	PASS
N38	30KHz	20MHz	TM1	519000	Outer Full	VH	NT	12.81	0.00494	±2.5	PASS
N38	30KHz	20MHz	TM1	522000	Outer Full	VL	NT	-6.40	-0.00245	±2.5	PASS
N38	30KHz	20MHz	TM1	522000	Outer Full	VN	NT	1.66	0.00064	±2.5	PASS
N38	30KHz	20MHz	TM1	522000	Outer Full	VH	NT	10.44	0.00400	±2.5	PASS
N38	30KHz	20MHz	TM6	516000	Outer Full	VL	NT	-11.04	-0.00428	±2.5	PASS
N38	30KHz	20MHz	TM6	516000	Outer Full	VN	NT	14.43	0.00559	±2.5	PASS
N38	30KHz	20MHz	TM6	516000	Outer Full	VH	NT	2.03	0.00079	±2.5	PASS
N38	30KHz	20MHz	TM6	519000	Outer Full	VL	NT	-0.15	-0.00006	±2.5	PASS
N38	30KHz	20MHz	TM6	519000	Outer Full	VN	NT	-11.64	-0.00449	±2.5	PASS
N38	30KHz	20MHz	TM6	519000	Outer Full	VH	NT	-0.53	-0.00020	±2.5	PASS
N38	30KHz	20MHz	TM6	522000	Outer Full	VL	NT	1.56	0.00060	±2.5	PASS
N38	30KHz	20MHz	TM6	522000	Outer Full	VN	NT	4.01	0.00154	±2.5	PASS
N38	30KHz	20MHz	TM6	522000	Outer Full	VH	NT	-8.65	-0.00331	±2.5	PASS

8.2 Frequency Error VS. Temperature

NR Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage [Vdc]	Temperature(°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
N38	30KHz	20MHz	TM1	516000	Outer Full	VN	-30	10.04	0.00389	±2.5	PASS
N38	30KHz	20MHz	TM1	516000	Outer Full	VN	-20	-5.32	-0.00206	±2.5	PASS
N38	30KHz	20MHz	TM1	516000	Outer Full	VN	-10	-0.89	-0.00034	±2.5	PASS
N38	30KHz	20MHz	TM1	516000	Outer Full	VN	0	6.54	0.00253	±2.5	PASS
N38	30KHz	20MHz	TM1	516000	Outer Full	VN	10	11.21	0.00434	±2.5	PASS
N38	30KHz	20MHz	TM1	516000	Outer Full	VN	20	-11.00	-0.00426	±2.5	PASS
N38	30KHz	20MHz	TM1	516000	Outer Full	VN	30	-9.12	-0.00353	±2.5	PASS
N38	30KHz	20MHz	TM1	516000	Outer Full	VN	40	-3.95	-0.00153	±2.5	PASS
N38	30KHz	20MHz	TM1	516000	Outer Full	VN	50	-5.37	-0.00208	±2.5	PASS
N38	30KHz	20MHz	TM1	519000	Outer Full	VN	-30	0.80	0.00031	±2.5	PASS
N38	30KHz	20MHz	TM1	519000	Outer Full	VN	-20	6.58	0.00254	±2.5	PASS
N38	30KHz	20MHz	TM1	519000	Outer Full	VN	-10	-5.96	-0.00230	±2.5	PASS
N38	30KHz	20MHz	TM1	519000	Outer Full	VN	0	6.40	0.00247	±2.5	PASS
N38	30KHz	20MHz	TM1	519000	Outer Full	VN	10	7.23	0.00279	±2.5	PASS
N38	30KHz	20MHz	TM1	519000	Outer Full	VN	20	-9.57	-0.00369	±2.5	PASS



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N38	30KHz	20MHz	TM1	519000	Outer Full	VN	30	3.94	0.00152	±2.5	PASS
N38	30KHz	20MHz	TM1	519000	Outer Full	VN	40	1.42	0.00055	±2.5	PASS
N38	30KHz	20MHz	TM1	519000	Outer Full	VN	50	6.02	0.00232	±2.5	PASS
N38	30KHz	20MHz	TM1	522000	Outer Full	VN	-30	-11.25	-0.00431	±2.5	PASS
N38	30KHz	20MHz	TM1	522000	Outer Full	VN	-20	13.78	0.00528	±2.5	PASS
N38	30KHz	20MHz	TM1	522000	Outer Full	VN	-10	-1.17	-0.00045	±2.5	PASS
N38	30KHz	20MHz	TM1	522000	Outer Full	VN	0	-1.76	-0.00067	±2.5	PASS
N38	30KHz	20MHz	TM1	522000	Outer Full	VN	10	2.03	0.00078	±2.5	PASS
N38	30KHz	20MHz	TM1	522000	Outer Full	VN	20	-8.53	-0.00327	±2.5	PASS
N38	30KHz	20MHz	TM1	522000	Outer Full	VN	30	-1.57	-0.00060	±2.5	PASS
N38	30KHz	20MHz	TM1	522000	Outer Full	VN	40	-5.87	-0.00225	±2.5	PASS
N38	30KHz	20MHz	TM1	522000	Outer Full	VN	50	-8.99	-0.00344	±2.5	PASS
N38	30KHz	20MHz	TM6	516000	Outer Full	VN	-30	8.71	0.00338	±2.5	PASS
N38	30KHz	20MHz	TM6	516000	Outer Full	VN	-20	11.01	0.00427	±2.5	PASS
N38	30KHz	20MHz	TM6	516000	Outer Full	VN	-10	5.94	0.00230	±2.5	PASS
N38	30KHz	20MHz	TM6	516000	Outer Full	VN	0	5.52	0.00214	±2.5	PASS
N38	30KHz	20MHz	TM6	516000	Outer Full	VN	10	0.96	0.00037	±2.5	PASS
N38	30KHz	20MHz	TM6	516000	Outer Full	VN	20	2.54	0.00098	±2.5	PASS
N38	30KHz	20MHz	TM6	516000	Outer Full	VN	30	-10.67	-0.00414	±2.5	PASS
N38	30KHz	20MHz	TM6	516000	Outer Full	VN	40	11.05	0.00428	±2.5	PASS
N38	30KHz	20MHz	TM6	516000	Outer Full	VN	50	-8.36	-0.00324	±2.5	PASS
N38	30KHz	20MHz	TM6	519000	Outer Full	VN	-30	-9.82	-0.00378	±2.5	PASS
N38	30KHz	20MHz	TM6	519000	Outer Full	VN	-20	-2.35	-0.00091	±2.5	PASS
N38	30KHz	20MHz	TM6	519000	Outer Full	VN	-10	11.44	0.00441	±2.5	PASS
N38	30KHz	20MHz	TM6	519000	Outer Full	VN	0	5.39	0.00208	±2.5	PASS
N38	30KHz	20MHz	TM6	519000	Outer Full	VN	10	10.76	0.00415	±2.5	PASS
N38	30KHz	20MHz	TM6	519000	Outer Full	VN	20	5.54	0.00213	±2.5	PASS
N38	30KHz	20MHz	TM6	519000	Outer Full	VN	30	-9.59	-0.00370	±2.5	PASS
N38	30KHz	20MHz	TM6	519000	Outer Full	VN	40	-5.57	-0.00215	±2.5	PASS
N38	30KHz	20MHz	TM6	519000	Outer Full	VN	50	4.24	0.00163	±2.5	PASS
N38	30KHz	20MHz	TM6	522000	Outer Full	VN	-30	8.95	0.00343	±2.5	PASS
N38	30KHz	20MHz	TM6	522000	Outer Full	VN	-20	12.73	0.00488	±2.5	PASS
N38	30KHz	20MHz	TM6	522000	Outer Full	VN	-10	7.17	0.00275	±2.5	PASS
N38	30KHz	20MHz	TM6	522000	Outer Full	VN	0	-12.93	-0.00495	±2.5	PASS
N38	30KHz	20MHz	TM6	522000	Outer Full	VN	10	0.01	0.00000	±2.5	PASS
N38	30KHz	20MHz	TM6	522000	Outer Full	VN	20	14.06	0.00539	±2.5	PASS
N38	30KHz	20MHz	TM6	522000	Outer Full	VN	30	10.24	0.00392	±2.5	PASS
N38	30KHz	20MHz	TM6	522000	Outer Full	VN	40	6.59	0.00252	±2.5	PASS
N38	30KHz	20MHz	TM6	522000	Outer Full	VN	50	-7.33	-0.00281	±2.5	PASS

REMARK:

All antenna and all modulation had been tested, but only the worst case data displayed in this report

The End



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