

5.8.4 LTE Band 7

LTE Band 7_20 MHz_QPSK							
No.	Frequency (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
Lowest Channel							
1	230.230	-62.83	-0.15	-62.98	-25.00	-37.98	Horizontal
2	243.543	-56.78	0.36	-56.42	-25.00	-31.42	Horizontal
3	703.731	-79.28	12.25	-67.03	-25.00	-42.03	Horizontal
4	5020.000	-59.39	11.78	-47.61	-25.00	-22.61	Horizontal
5	7530.000	-59.51	14.56	-44.95	-25.00	-19.95	Horizontal
6	53.006	-54.34	-5.65	-59.99	-25.00	-34.99	Vertical
7	56.466	-51.65	-7.68	-59.33	-25.00	-34.33	Vertical
8	245.261	-58.70	0.41	-58.29	-25.00	-33.29	Vertical
9	5020.000	-57.39	11.78	-45.61	-25.00	-20.61	Vertical
10	7530.000	-58.55	14.56	-43.99	-25.00	-18.99	Vertical
Middle Channel							
1	230.230	-63.46	-0.15	-63.61	-25.00	-38.61	Horizontal
2	243.543	-58.21	0.36	-57.85	-25.00	-32.85	Horizontal
3	972.283	-80.50	16.25	-64.25	-25.00	-39.25	Horizontal
4	5070.000	-60.09	11.87	-48.22	-25.00	-23.22	Horizontal
5	7605.000	-59.18	14.53	-44.65	-25.00	-19.65	Horizontal
6	50.461	-57.08	-4.67	-61.75	-25.00	-36.75	Vertical
7	56.864	-51.90	-7.75	-59.65	-25.00	-34.65	Vertical
8	243.543	-59.91	0.36	-59.55	-25.00	-34.55	Vertical
9	5070.000	-58.20	11.87	-46.33	-25.00	-21.33	Vertical
10	7605.000	-62.12	14.53	-47.59	-25.00	-22.59	Vertical
Highest Channel							
1	243.543	-58.75	0.36	-58.39	-25.00	-33.39	Horizontal
2	850.760	-80.42	14.92	-65.50	-25.00	-40.50	Horizontal
3	919.132	-80.18	15.97	-64.21	-25.00	-39.21	Horizontal
4	5120.000	-59.45	11.95	-47.50	-25.00	-22.50	Horizontal
5	7680.000	-59.14	14.49	-44.65	-25.00	-19.65	Horizontal
6	50.461	-56.78	-4.67	-61.45	-25.00	-36.45	Vertical
7	57.265	-51.62	-7.90	-59.52	-25.00	-34.52	Vertical
8	243.543	-59.85	0.36	-59.49	-25.00	-34.49	Vertical
9	5120.000	-54.43	11.95	-42.48	-25.00	-17.48	Vertical
10	7680.000	-57.85	14.49	-43.36	-25.00	-18.36	Vertical

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5.8.5 LTE Band 41

LTE Band 41_ 20 MHz_ QPSK							
No.	Frequency (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
Lowest Channel							
1	243.543	-58.04	0.36	-57.68	-25.00	-32.68	Horizontal
2	804.252	-79.33	13.98	-65.35	-25.00	-40.35	Horizontal
3	952.000	-80.66	16.05	-64.61	-25.00	-39.61	Horizontal
4	5130.000	-57.61	11.96	-45.65	-25.00	-20.65	Horizontal
5	7695.000	-59.69	14.48	-45.21	-25.00	-20.21	Horizontal
6	53.006	-55.96	-5.65	-61.61	-25.00	-36.61	Vertical
7	56.864	-51.25	-7.75	-59.00	-25.00	-34.00	Vertical
8	243.543	-60.47	0.36	-60.11	-25.00	-35.11	Vertical
9	5130.000	-55.42	11.96	-43.46	-25.00	-18.46	Vertical
10	7695.000	-59.10	14.48	-44.62	-25.00	-19.62	Vertical
Middle Channel							
1	243.543	-58.82	0.36	-58.46	-25.00	-33.46	Horizontal
2	881.184	-80.06	15.44	-64.62	-25.00	-39.62	Horizontal
3	925.613	-80.40	15.87	-64.53	-25.00	-39.53	Horizontal
4	5200.000	-57.50	12.09	-45.41	-25.00	-20.41	Horizontal
5	7800.000	-57.47	14.44	-43.03	-25.00	-18.03	Horizontal
6	53.006	-55.82	-5.65	-61.47	-25.00	-36.47	Vertical
7	57.265	-51.66	-7.90	-59.56	-25.00	-34.56	Vertical
8	241.838	-59.79	0.33	-59.46	-25.00	-34.46	Vertical
9	5200.000	-55.68	12.09	-43.59	-25.00	-18.59	Vertical
10	7800.000	-57.54	14.44	-43.10	-25.00	-18.10	Vertical
Highest Channel							
1	245.261	-58.81	0.41	-58.40	-25.00	-33.40	Horizontal
2	703.731	-78.98	12.25	-66.73	-25.00	-41.73	Horizontal
3	932.141	-79.83	15.80	-64.03	-25.00	-39.03	Horizontal
4	5290.000	-59.46	12.25	-47.21	-25.00	-22.21	Horizontal
5	7935.000	-60.02	14.37	-45.65	-25.00	-20.65	Horizontal
6	50.461	-56.76	-4.67	-61.43	-25.00	-36.43	Vertical
7	57.265	-51.83	-7.90	-59.73	-25.00	-34.73	Vertical
8	243.543	-60.04	0.36	-59.68	-25.00	-34.68	Vertical
9	5290.000	-58.60	12.25	-46.35	-25.00	-21.35	Vertical
10	7935.000	-55.12	14.37	-40.75	-25.00	-15.75	Vertical

5.8.1 LTE Band 66

LTE Band 66_ 20 MHz_ QPSK							
No.	Frequency (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
Lowest Channel							
1	243.543	-58.61	0.36	-58.25	-13.00	-45.25	Horizontal
2	703.731	-79.34	12.25	-67.09	-13.00	-54.09	Horizontal
3	938.714	-80.62	15.89	-64.73	-13.00	-51.73	Horizontal
4	3440.000	-58.99	9.91	-49.08	-13.00	-36.08	Horizontal
5	5160.000	-60.48	12.02	-48.46	-13.00	-35.46	Horizontal
6	50.108	-57.40	-4.53	-61.93	-13.00	-48.93	Vertical
7	57.265	-51.75	-7.90	-59.65	-13.00	-46.65	Vertical
8	243.543	-59.16	0.36	-58.80	-13.00	-45.80	Vertical
9	3440.000	-58.01	9.91	-48.10	-13.00	-35.10	Vertical
10	5160.000	-58.30	12.02	-46.28	-13.00	-33.28	Vertical
Middle Channel							
1	231.853	-61.98	-0.06	-62.04	-13.00	-49.04	Horizontal
2	243.543	-57.40	0.36	-57.04	-13.00	-44.04	Horizontal
3	703.731	-79.39	12.25	-67.14	-13.00	-54.14	Horizontal
4	3490.000	-59.32	10.04	-49.28	-13.00	-36.28	Horizontal
5	5235.000	-59.51	12.15	-47.36	-13.00	-34.36	Horizontal
6	56.864	-52.33	-7.75	-60.08	-13.00	-47.08	Vertical
7	58.898	-52.93	-6.90	-59.83	-13.00	-46.83	Vertical
8	243.543	-59.13	0.36	-58.77	-13.00	-45.77	Vertical
9	3490.000	-59.02	10.04	-48.98	-13.00	-35.98	Vertical
10	5235.000	-60.60	12.15	-48.45	-13.00	-35.45	Vertical
Highest Channel							
1	245.261	-57.07	0.41	-56.66	-13.00	-43.66	Horizontal
2	703.731	-78.84	12.25	-66.59	-13.00	-53.59	Horizontal
3	875.013	-80.09	15.26	-64.83	-13.00	-51.83	Horizontal
4	3540.000	-59.49	10.30	-49.19	-13.00	-36.19	Horizontal
5	5310.000	-60.84	12.28	-48.56	-13.00	-35.56	Horizontal
6	50.461	-57.42	-4.67	-62.09	-13.00	-49.09	Vertical
7	57.265	-51.65	-7.90	-59.55	-13.00	-46.55	Vertical
8	243.543	-61.10	0.36	-60.74	-13.00	-47.74	Vertical
9	3540.000	-59.54	10.30	-49.24	-13.00	-36.24	Vertical
10	5310.000	-60.61	12.28	-48.33	-13.00	-35.33	Vertical

Remark:

1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Result = Reading + Correct Factor.
3. Margin = Result - Limit

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5.9 FREQUENCY STABILITY

Test Requirement: FCC 47 CFR Part 2.1055 &
FCC 47 CFR Part 22.355 &
FCC 47 CFR Part 24.235 &
FCC 47 CFR Part 27.54

Test Method: ANSI C63.26-2015 & KDB 971168 D01v03r01

Limits:

FCC 47 CFR Part 22.355, FCC 47 CFR Part 90.213

The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

FCC 47 CFR Part 24.235, FCC 47 CFR Part 27.54

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Setup: Refer to section 4.2.2 for details.

Test Procedures:

- 1) Use CMW 500 with Frequency Error measurement capability.
 - a) Temp. = -30° to $+50^{\circ}\text{C}$
 - b) Voltage = low voltage, 8.75 Vdc, Normal, 9.0 Vdc and High voltage, 9.25 Vdc.

- 2) Frequency Stability vs Temperature:

The EUT is placed inside a temperature chamber. The temperature is set to 20°C and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured. The temperature is increased by 10°C degrees, allowed to stabilize and soak, and then the measurement is repeated. This is repeated until $+50^{\circ}\text{C}$ is reached.

- 3) Frequency Stability vs Voltage:

The peak frequency error is recorded (worst-case).

Equipment Used: Refer to section 3 for details.

Test Result: Please refer to Appendix A

Note 1: The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

APPENDIX A RF TEST DATA

A.1 PEAK TO AVERAGE RATIO

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band2	20MHz	QPSK	18700	1RB#0	4.90	13	PASS
Band2	20MHz	QPSK	18700	100RB#0	5.62	13	PASS
Band2	20MHz	QPSK	18900	1RB#0	5.30	13	PASS
Band2	20MHz	QPSK	18900	100RB#0	5.90	13	PASS
Band2	20MHz	QPSK	19100	1RB#0	5.36	13	PASS
Band2	20MHz	QPSK	19100	100RB#0	5.72	13	PASS
Band2	20MHz	16QAM	18700	1RB#0	5.76	13	PASS
Band2	20MHz	16QAM	18700	100RB#0	6.38	13	PASS
Band2	20MHz	16QAM	18900	1RB#0	5.82	13	PASS
Band2	20MHz	16QAM	18900	100RB#0	6.49	13	PASS
Band2	20MHz	16QAM	19100	1RB#0	6.43	13	PASS
Band2	20MHz	16QAM	19100	100RB#0	6.45	13	PASS
Band4	20MHz	QPSK	20050	1RB#0	4.57	13	PASS
Band4	20MHz	QPSK	20050	100RB#0	5.55	13	PASS
Band4	20MHz	QPSK	20175	1RB#0	4.58	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.73	13	PASS
Band4	20MHz	QPSK	20300	1RB#0	4.78	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.74	13	PASS
Band4	20MHz	16QAM	20050	1RB#0	5.47	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	6.30	13	PASS
Band4	20MHz	16QAM	20175	1RB#0	5.35	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	6.35	13	PASS
Band4	20MHz	16QAM	20300	1RB#0	5.94	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	6.43	13	PASS
Band5	10MHz	QPSK	20450	1RB#0	4.08	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.63	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	5.23	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.69	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	4.69	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.45	13	PASS
Band5	10MHz	16QAM	20450	1RB#0	5.15	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.32	13	PASS
Band5	10MHz	16QAM	20525	1RB#0	6.18	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.42	13	PASS
Band5	10MHz	16QAM	20600	1RB#0	5.35	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.12	13	PASS
Band7	20MHz	QPSK	20850	1RB#0	4.09	13	PASS
Band7	20MHz	QPSK	20850	100RB#0	5.27	13	PASS
Band7	20MHz	QPSK	21100	1RB#0	4.52	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.58	13	PASS
Band7	20MHz	QPSK	21350	1RB#0	4.41	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.42	13	PASS
Band7	20MHz	16QAM	20850	1RB#0	5.03	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	5.98	13	PASS
Band7	20MHz	16QAM	21100	1RB#0	5.19	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	6.16	13	PASS
Band7	20MHz	16QAM	21350	1RB#0	5.46	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	6.11	13	PASS
Band41	20MHz	QPSK	40340	1RB#0	4.46	13	PASS
Band41	20MHz	QPSK	40340	100RB#0	5.49	13	PASS
Band41	20MHz	QPSK	40690	1RB#0	4.10	13	PASS
Band41	20MHz	QPSK	40690	100RB#0	5.40	13	PASS
Band41	20MHz	QPSK	41140	1RB#0	4.05	13	PASS
Band41	20MHz	QPSK	41140	100RB#0	5.27	13	PASS
Band41	20MHz	16QAM	40340	1RB#0	4.83	13	PASS
Band41	20MHz	16QAM	40340	100RB#0	6.21	13	PASS
Band41	20MHz	16QAM	40690	1RB#0	4.77	13	PASS
Band41	20MHz	16QAM	40690	100RB#0	6.11	13	PASS

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band41	20MHz	16QAM	41140	1RB#0	4.49	13	PASS
Band41	20MHz	16QAM	41140	100RB#0	5.86	13	PASS
Band66	20MHz	QPSK	132072	1RB#0	4.72	13	PASS
Band66	20MHz	QPSK	132072	100RB#0	5.54	13	PASS
Band66	20MHz	QPSK	132322	1RB#0	4.84	13	PASS
Band66	20MHz	QPSK	132322	100RB#0	5.80	13	PASS
Band66	20MHz	QPSK	132572	1RB#0	4.94	13	PASS
Band66	20MHz	QPSK	132572	100RB#0	5.61	13	PASS
Band66	20MHz	16QAM	132072	1RB#0	5.52	13	PASS
Band66	20MHz	16QAM	132072	100RB#0	6.30	13	PASS
Band66	20MHz	16QAM	132322	1RB#0	5.58	13	PASS
Band66	20MHz	16QAM	132322	100RB#0	6.40	13	PASS
Band66	20MHz	16QAM	132572	1RB#0	5.80	13	PASS
Band66	20MHz	16QAM	132572	100RB#0	6.32	13	PASS

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band2	20MHz	64QAM	18700	1RB#0	5.73	13	PASS
Band2	20MHz	64QAM	18700	100RB#0	6.37	13	PASS
Band2	20MHz	64QAM	18900	1RB#0	6.00	13	PASS
Band2	20MHz	64QAM	18900	100RB#0	6.48	13	PASS
Band2	20MHz	64QAM	19100	1RB#0	6.42	13	PASS
Band2	20MHz	64QAM	19100	100RB#0	6.44	13	PASS
Band4	20MHz	64QAM	20050	1RB#0	5.42	13	PASS
Band4	20MHz	64QAM	20050	100RB#0	6.31	13	PASS
Band4	20MHz	64QAM	20175	1RB#0	5.30	13	PASS
Band4	20MHz	64QAM	20175	100RB#0	6.35	13	PASS
Band4	20MHz	64QAM	20300	1RB#0	5.90	13	PASS
Band4	20MHz	64QAM	20300	100RB#0	6.44	13	PASS
Band5	10MHz	64QAM	20450	1RB#0	5.08	13	PASS
Band5	10MHz	64QAM	20450	50RB#0	6.31	13	PASS
Band5	10MHz	64QAM	20525	1RB#0	6.03	13	PASS
Band5	10MHz	64QAM	20525	50RB#0	6.40	13	PASS
Band5	10MHz	64QAM	20600	1RB#0	5.77	13	PASS
Band5	10MHz	64QAM	20600	50RB#0	6.09	13	PASS
Band7	20MHz	64QAM	20850	1RB#0	4.87	13	PASS
Band7	20MHz	64QAM	20850	100RB#0	5.97	13	PASS
Band7	20MHz	64QAM	21100	1RB#0	5.15	13	PASS
Band7	20MHz	64QAM	21100	100RB#0	6.17	13	PASS
Band7	20MHz	64QAM	21350	1RB#0	5.45	13	PASS
Band7	20MHz	64QAM	21350	100RB#0	6.11	13	PASS
Band41	20MHz	64QAM	40340	1RB#0	4.96	13	PASS
Band41	20MHz	64QAM	40340	100RB#0	6.10	13	PASS
Band41	20MHz	64QAM	40690	1RB#0	4.47	13	PASS
Band41	20MHz	64QAM	40690	100RB#0	6.00	13	PASS
Band41	20MHz	64QAM	41140	1RB#0	4.47	13	PASS
Band41	20MHz	64QAM	41140	100RB#0	5.99	13	PASS
Band66	20MHz	64QAM	132072	1RB#0	5.44	13	PASS
Band66	20MHz	64QAM	132072	100RB#0	6.29	13	PASS
Band66	20MHz	64QAM	132322	1RB#0	5.50	13	PASS
Band66	20MHz	64QAM	132322	100RB#0	6.40	13	PASS
Band66	20MHz	64QAM	132572	1RB#0	5.95	13	PASS
Band66	20MHz	64QAM	132572	100RB#0	6.33	13	PASS

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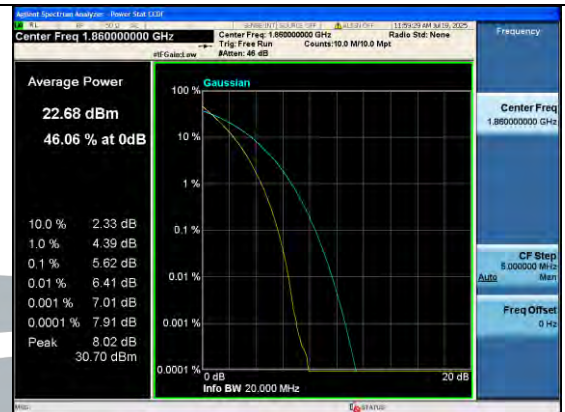
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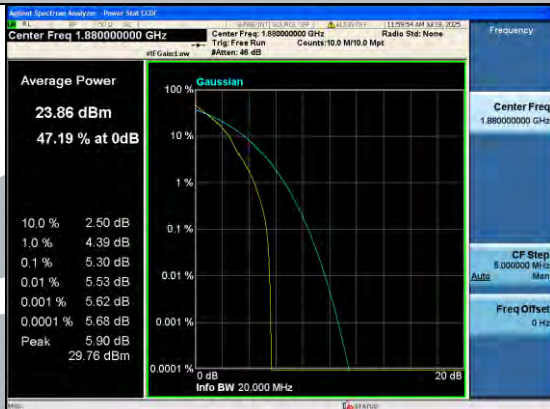
Test Graphs



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Band2-20MHz-QPSK-18700-100RB#0-PASS



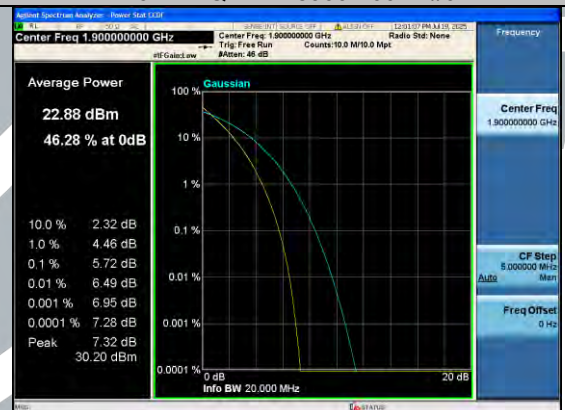
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Band2-20MHz-QPSK-19100-1RB#0-PASS



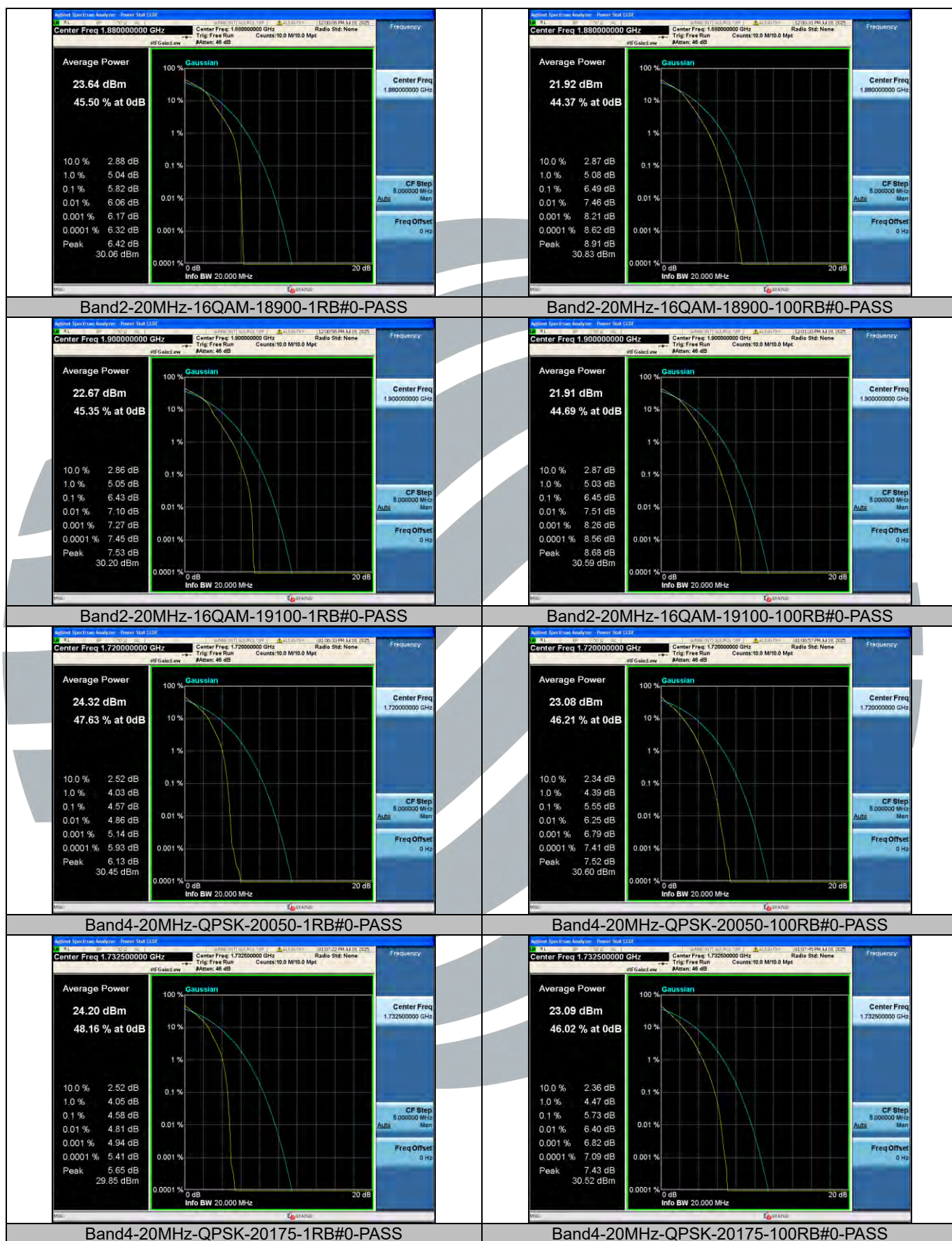
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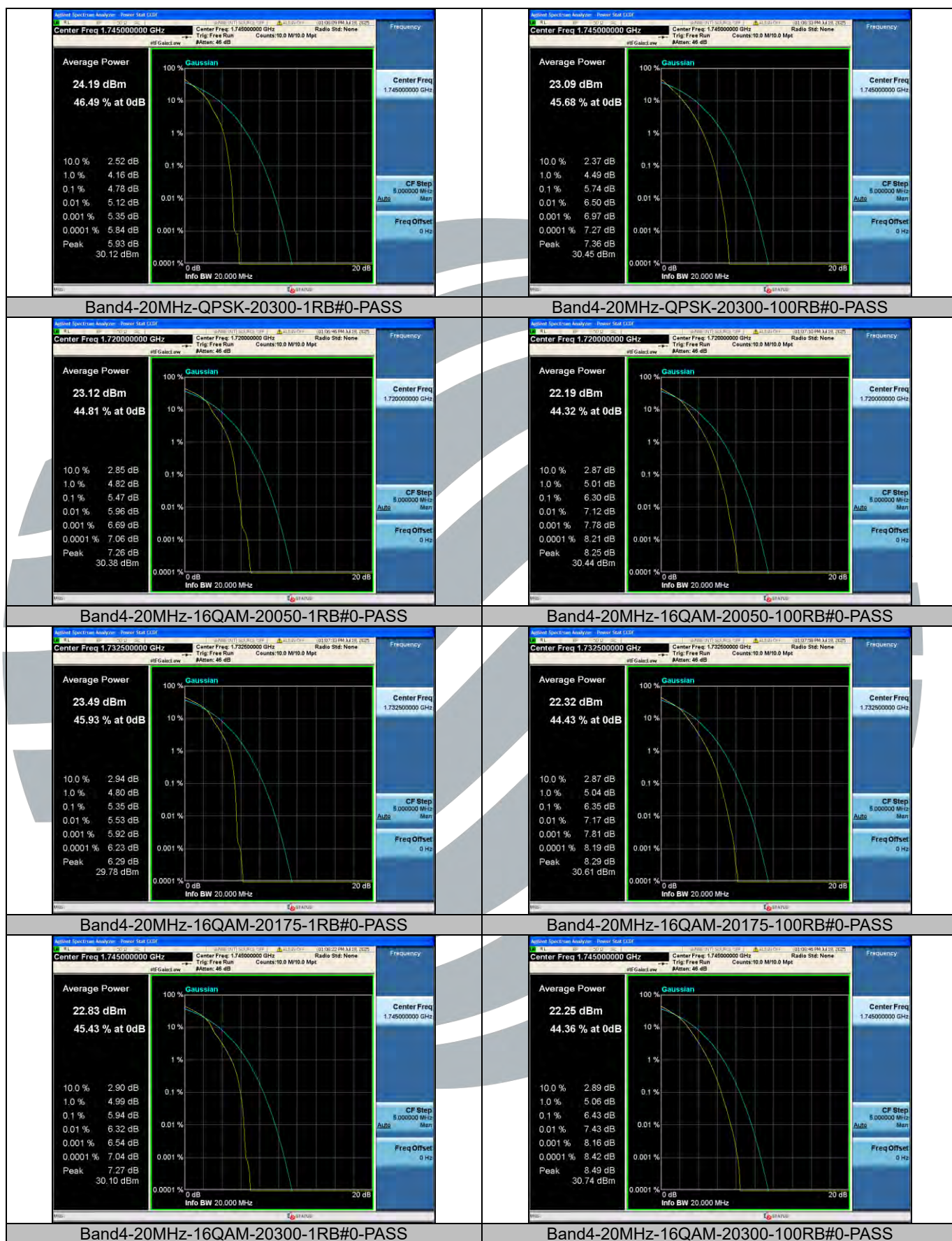


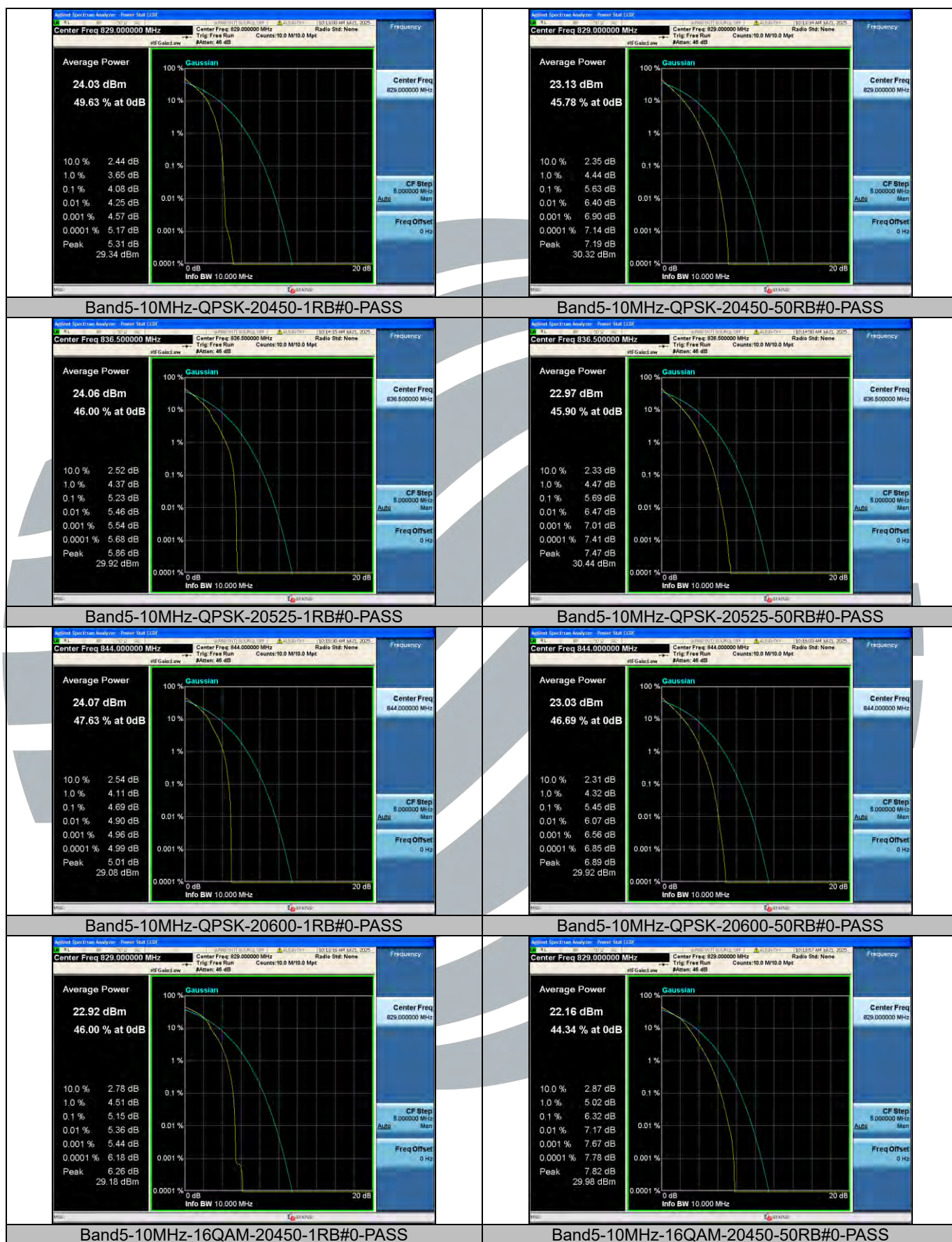
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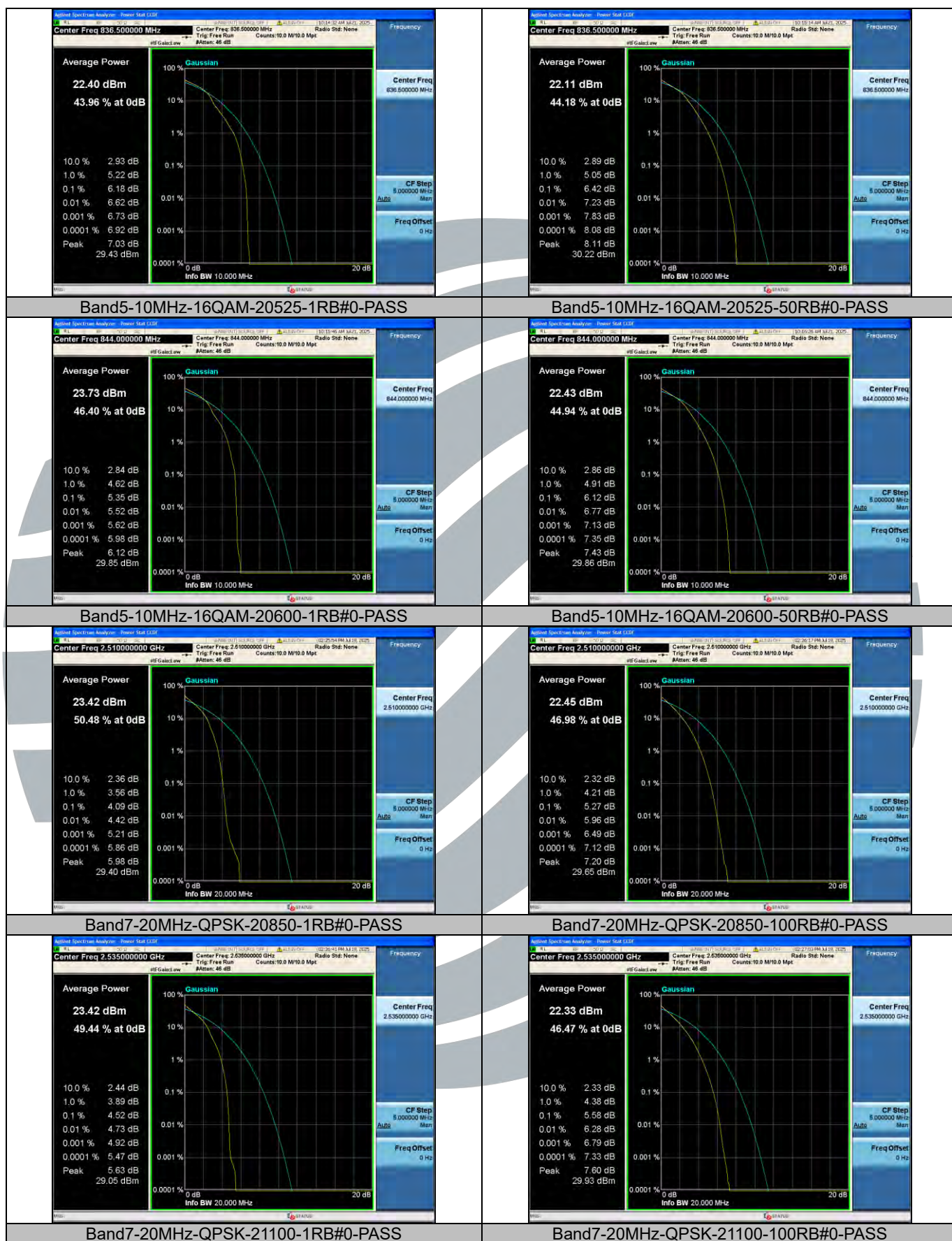


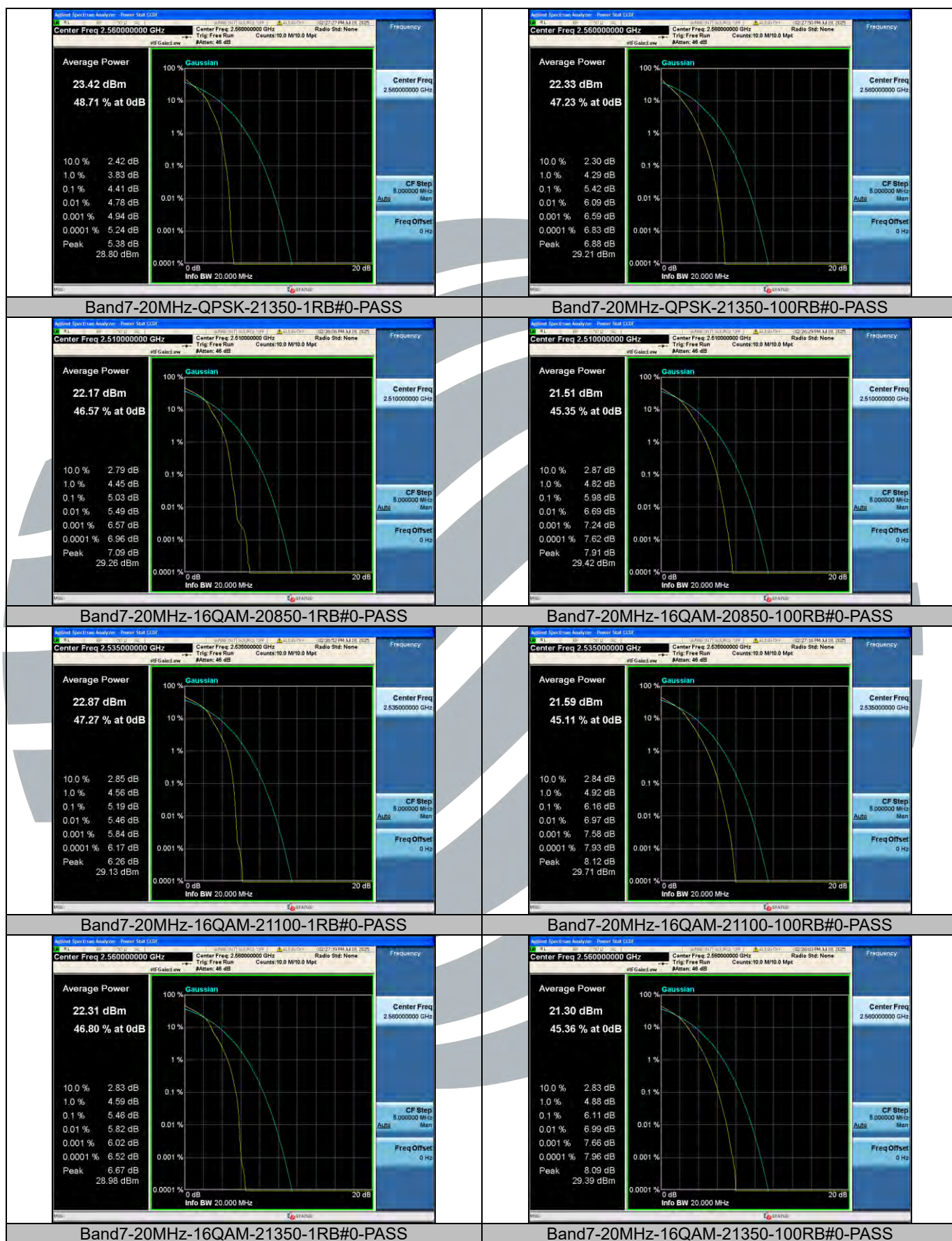
Band2-20MHz-16QAM-18700-100RB#0-PASS

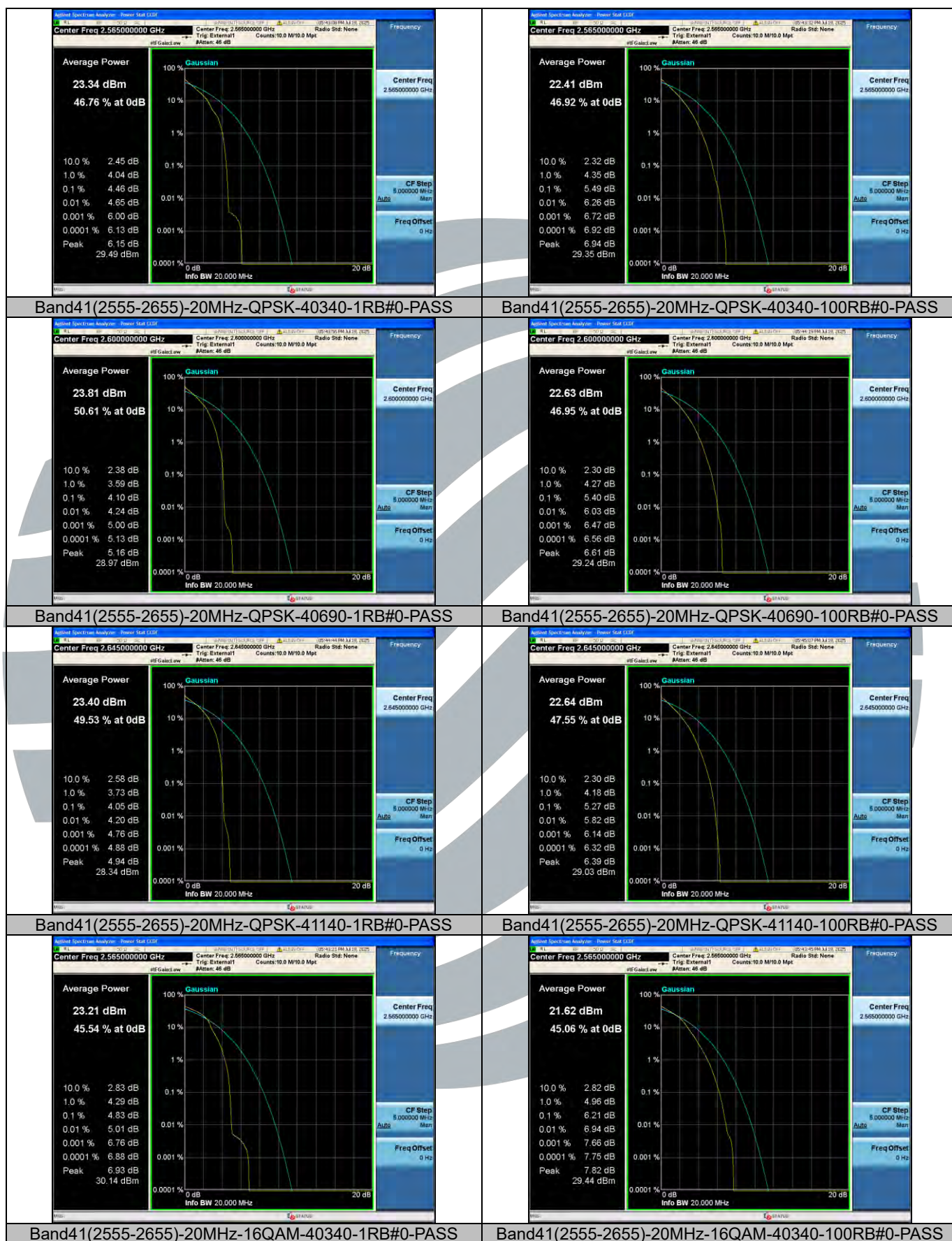


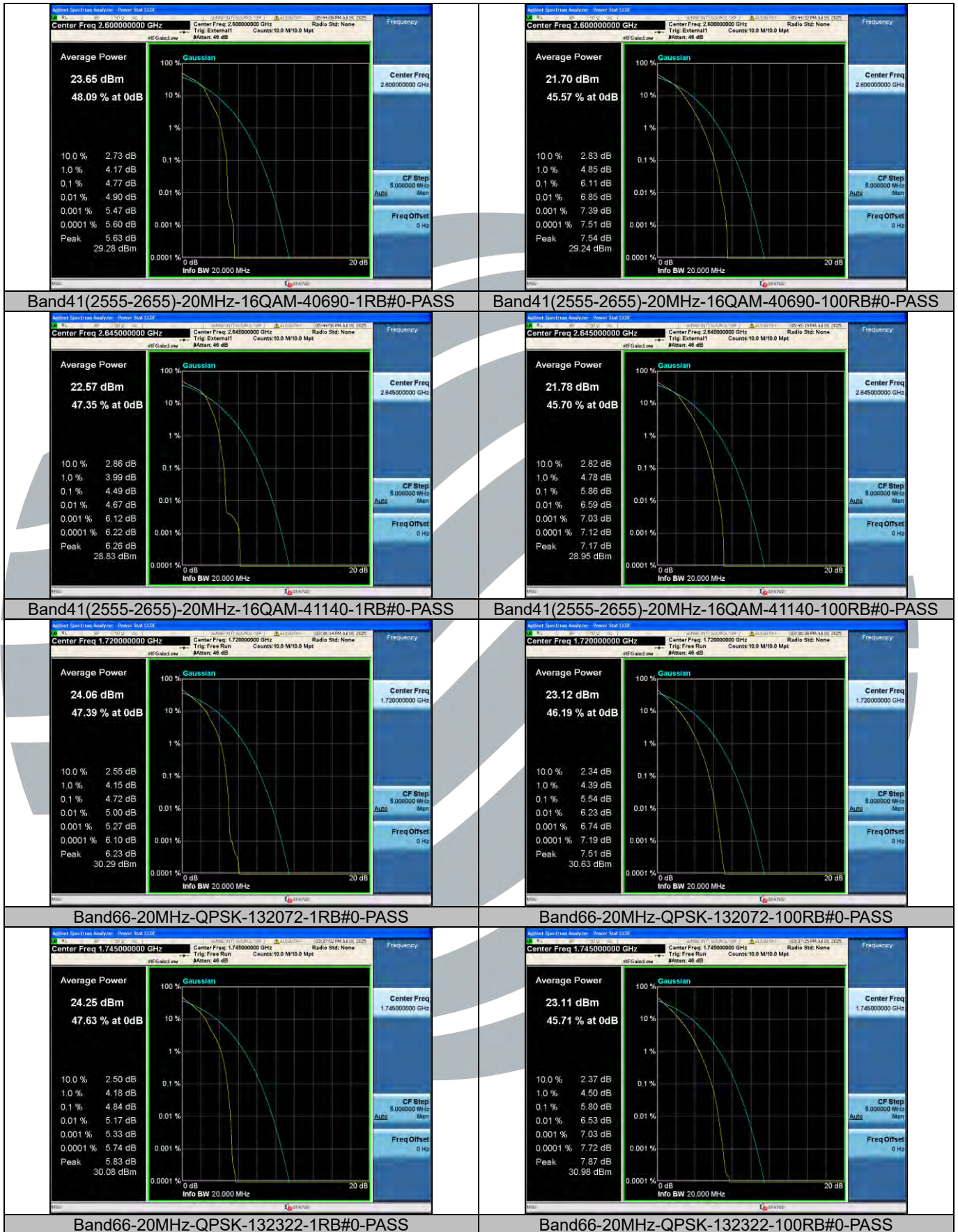


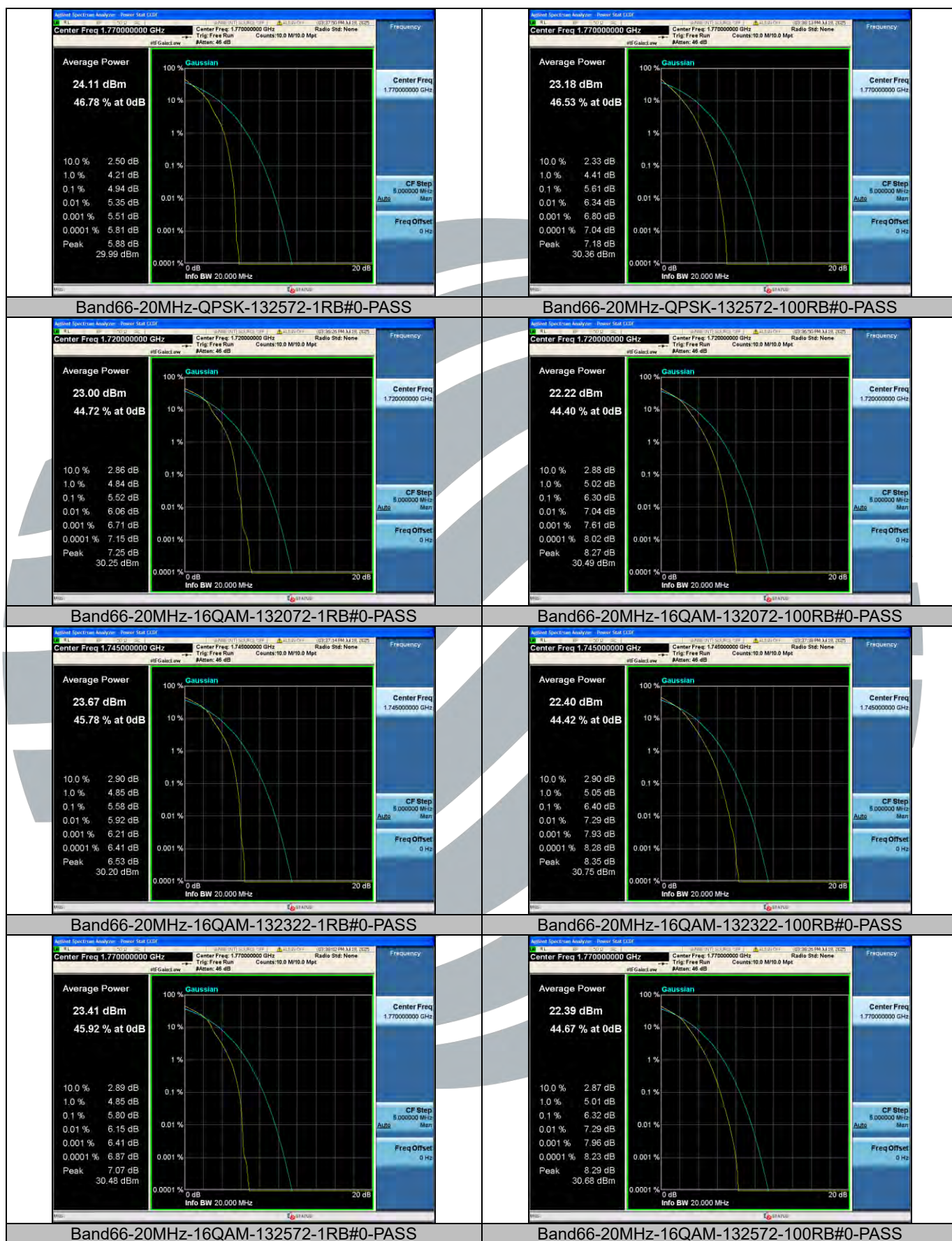


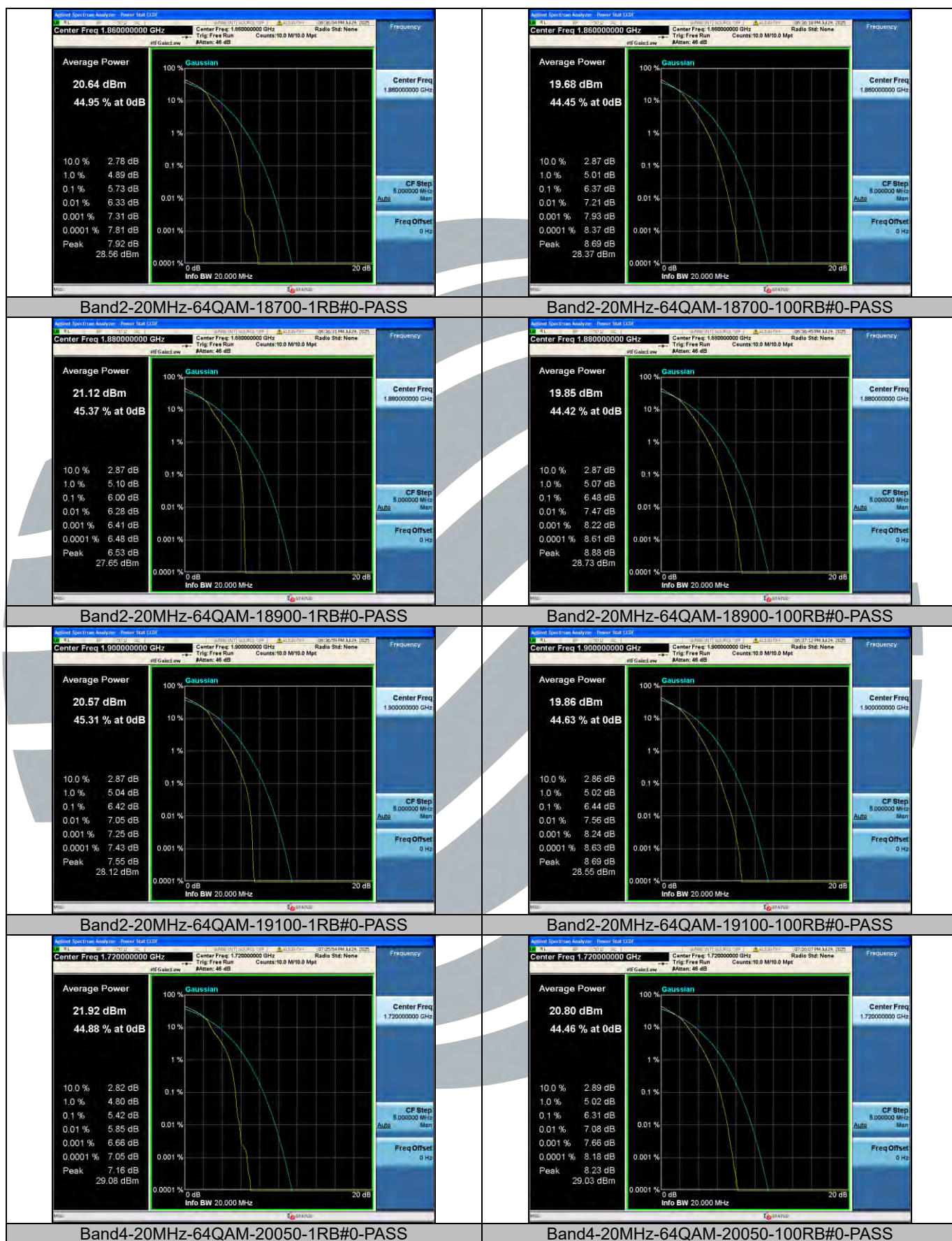










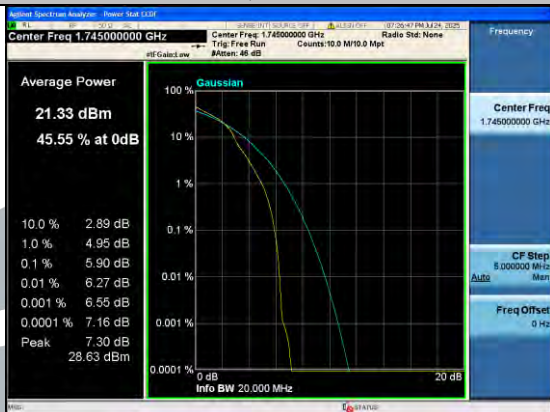




Band4-20MHz-64QAM-20175-1RB#0-PASS



Band4-20MHz-64QAM-20175-100RB#0-PASS



Band4-20MHz-64QAM-20300-1RB#0-PASS



Band4-20MHz-64QAM-20300-100RB#0-PASS



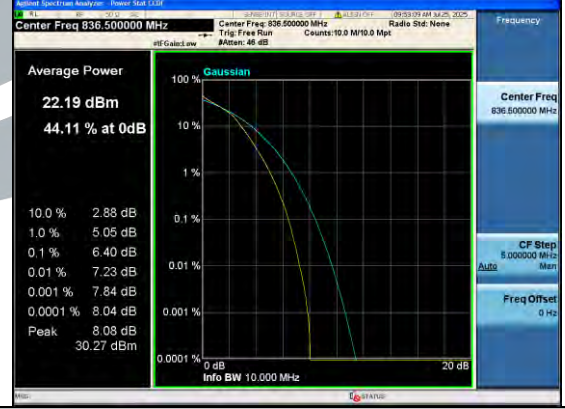
Band5-10MHz-64QAM-20450-1RB#0-PASS



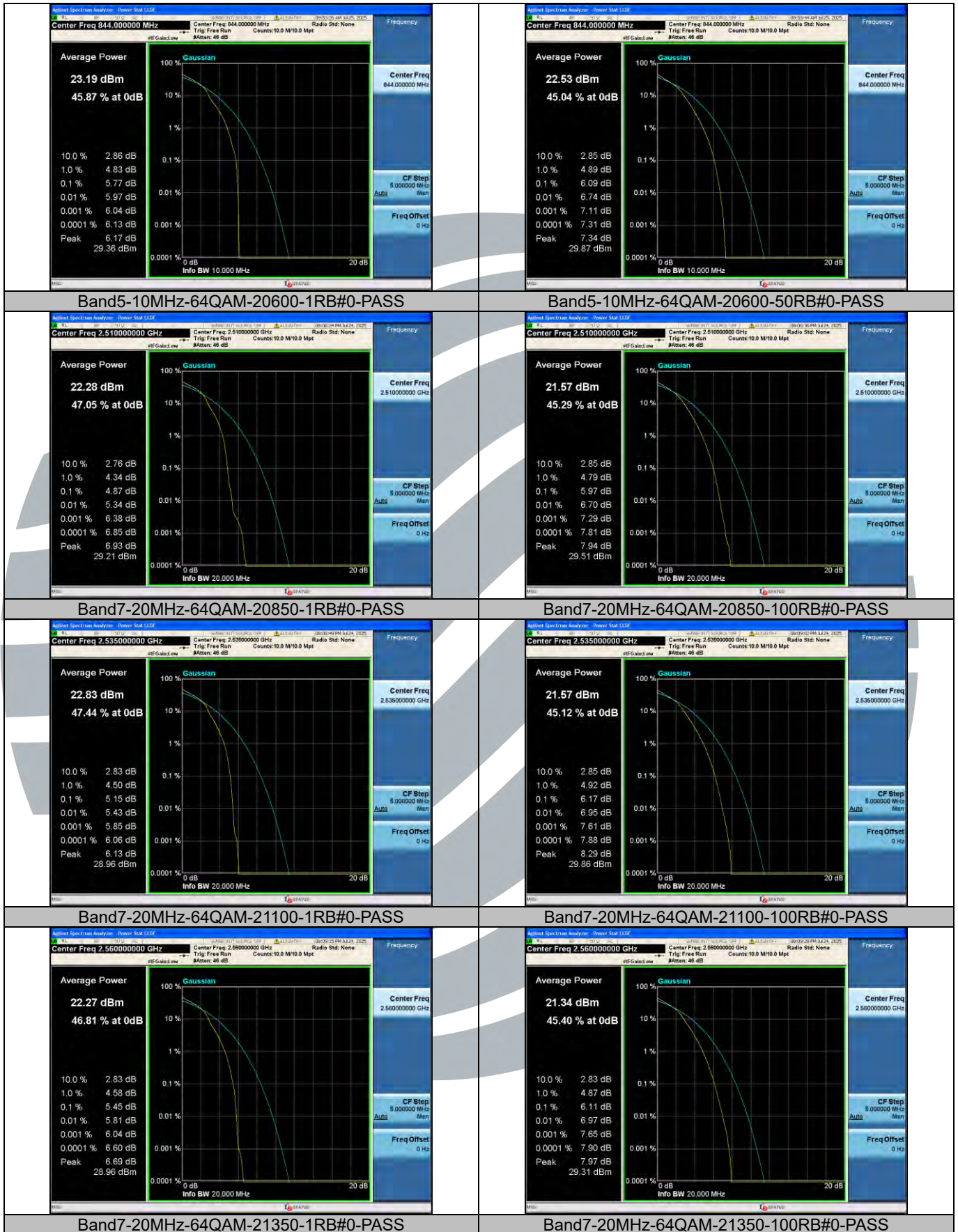
Band5-10MHz-64QAM-20450-50RB#0-PASS

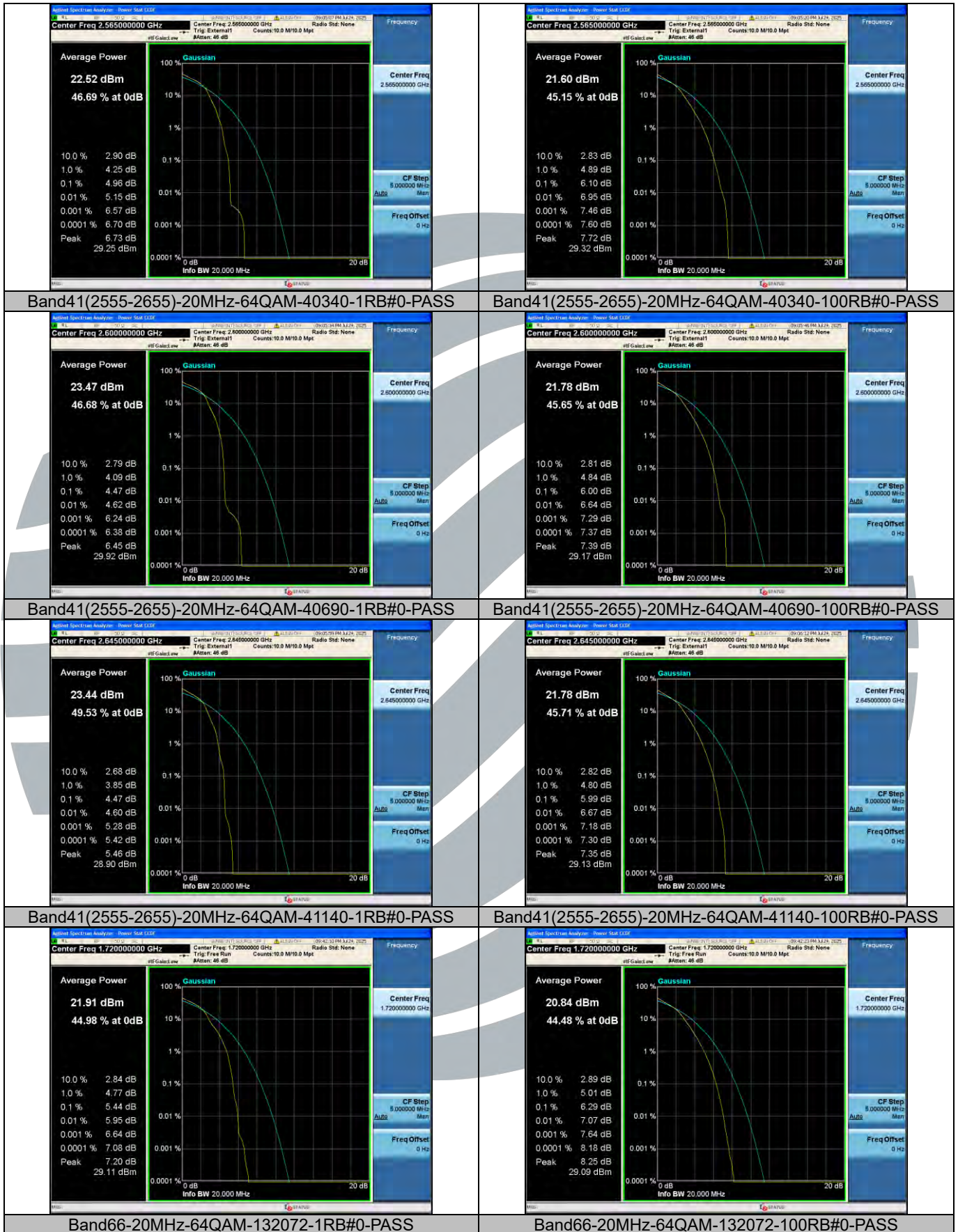


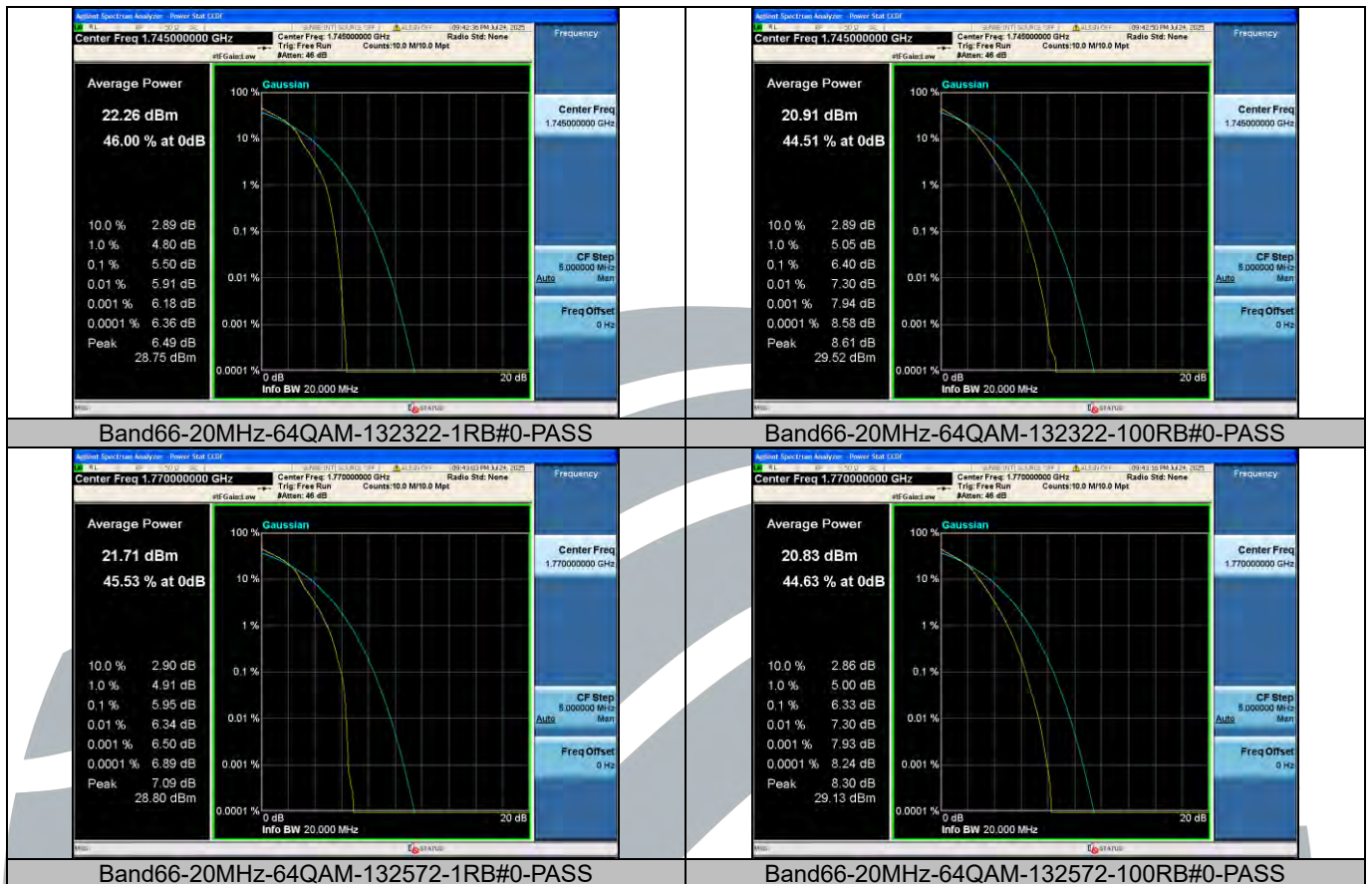
Band5-10MHz-64QAM-20525-1RB#0-PASS



Band5-10MHz-64QAM-20525-50RB#0-PASS







A.2 26dB Bandwidth and Occupied Bandwidth

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	1.0915	1.244	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	1.0931	1.242	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1.0945	1.243	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	1.0988	1.244	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	1.1048	1.242	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	1.0996	1.254	PASS
Band2	3MHz	QPSK	18615	15RB#0	2.7135	3.006	PASS
Band2	3MHz	QPSK	18900	15RB#0	2.7064	3.015	PASS
Band2	3MHz	QPSK	19185	15RB#0	2.7043	3.030	PASS
Band2	3MHz	16QAM	18615	15RB#0	2.6994	3.040	PASS
Band2	3MHz	16QAM	18900	15RB#0	2.7033	3.032	PASS
Band2	3MHz	16QAM	19185	15RB#0	2.7015	3.015	PASS
Band2	5MHz	QPSK	18625	25RB#0	4.5097	4.975	PASS
Band2	5MHz	QPSK	18900	25RB#0	4.5002	4.987	PASS
Band2	5MHz	QPSK	19175	25RB#0	4.5083	4.996	PASS
Band2	5MHz	16QAM	18625	25RB#0	4.5079	4.953	PASS
Band2	5MHz	16QAM	18900	25RB#0	4.5125	4.978	PASS
Band2	5MHz	16QAM	19175	25RB#0	4.5258	5.008	PASS
Band2	10MHz	QPSK	18650	50RB#0	8.9819	9.895	PASS
Band2	10MHz	QPSK	18900	50RB#0	9.0096	9.905	PASS
Band2	10MHz	QPSK	19150	50RB#0	8.9952	9.861	PASS
Band2	10MHz	16QAM	18650	50RB#0	9.0056	9.922	PASS
Band2	10MHz	16QAM	18900	50RB#0	8.9918	9.966	PASS
Band2	10MHz	16QAM	19150	50RB#0	9.0028	9.909	PASS
Band2	15MHz	QPSK	18675	75RB#0	13.492	14.91	PASS
Band2	15MHz	QPSK	18900	75RB#0	13.500	15.03	PASS
Band2	15MHz	QPSK	19125	75RB#0	13.467	14.93	PASS
Band2	15MHz	16QAM	18675	75RB#0	13.494	14.97	PASS
Band2	15MHz	16QAM	18900	75RB#0	13.517	15.01	PASS
Band2	15MHz	16QAM	19125	75RB#0	13.522	15.04	PASS
Band2	20MHz	QPSK	18700	100RB#0	17.984	19.75	PASS
Band2	20MHz	QPSK	18900	100RB#0	18.076	19.91	PASS
Band2	20MHz	QPSK	19100	100RB#0	17.995	19.70	PASS
Band2	20MHz	16QAM	18700	100RB#0	17.980	19.76	PASS
Band2	20MHz	16QAM	18900	100RB#0	18.036	19.81	PASS
Band2	20MHz	16QAM	19100	100RB#0	18.023	19.82	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	1.0993	1.249	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.0909	1.248	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.0922	1.245	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.0909	1.240	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.1031	1.251	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.0958	1.244	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.7114	3.019	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.7049	3.019	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.7122	3.029	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.7011	3.035	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.7028	3.042	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.7019	3.022	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.5072	4.967	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.5033	4.985	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.5071	4.990	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.5014	4.961	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.5132	4.985	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.5196	5.012	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.9869	9.894	PASS
Band4	10MHz	QPSK	20175	50RB#0	9.0079	9.925	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.9789	9.906	PASS
Band4	10MHz	16QAM	20000	50RB#0	9.0026	9.942	PASS
Band4	10MHz	16QAM	20175	50RB#0	9.0059	9.921	PASS

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	10MHz	16QAM	20350	50RB#0	8.9959	9.942	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.490	15.01	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.511	15.06	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.474	14.92	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.508	14.92	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.514	14.97	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.515	15.05	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.985	19.65	PASS
Band4	20MHz	QPSK	20175	100RB#0	18.086	19.92	PASS
Band4	20MHz	QPSK	20300	100RB#0	18.005	20.35	PASS
Band4	20MHz	16QAM	20050	100RB#0	18.002	19.68	PASS
Band4	20MHz	16QAM	20175	100RB#0	18.027	19.62	PASS
Band4	20MHz	16QAM	20300	100RB#0	18.036	19.85	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	1.0912	1.241	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.0902	1.240	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.0964	1.243	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.0968	1.251	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.0994	1.250	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.0971	1.250	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.7057	2.998	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.7032	3.022	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.7107	3.032	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.7065	3.031	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.7059	3.052	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.7082	3.020	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.5105	4.983	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.5016	4.974	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.5135	4.998	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.5075	4.967	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.5127	4.983	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.5319	5.003	PASS
Band5	10MHz	QPSK	20450	50RB#0	9.0064	9.909	PASS
Band5	10MHz	QPSK	20525	50RB#0	9.0010	9.904	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.9643	9.822	PASS
Band5	10MHz	16QAM	20450	50RB#0	9.0124	9.929	PASS
Band5	10MHz	16QAM	20525	50RB#0	9.0043	9.935	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.9871	9.857	PASS
Band7	5MHz	QPSK	20775	25RB#0	4.5119	4.983	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.4991	4.978	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.5126	4.986	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.5033	4.971	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.5105	4.994	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.5281	4.992	PASS
Band7	10MHz	QPSK	20800	50RB#0	9.0010	9.900	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.9952	9.907	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.9795	9.877	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.9985	9.947	PASS
Band7	10MHz	16QAM	21100	50RB#0	9.0055	9.965	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.9948	9.967	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.512	14.86	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.507	15.05	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.468	14.94	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.512	15.00	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.489	14.99	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.516	15.02	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.981	19.71	PASS
Band7	20MHz	QPSK	21100	100RB#0	18.044	19.84	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.999	19.67	PASS
Band7	20MHz	16QAM	20850	100RB#0	18.014	19.76	PASS
Band7	20MHz	16QAM	21100	100RB#0	18.023	19.75	PASS

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Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	20MHz	16QAM	21350	100RB#0	18.031	19.76	PASS
Band41	5MHz	QPSK	40265	25RB#0	4.5205	5.284	PASS
Band41	5MHz	QPSK	40690	25RB#0	4.5172	5.238	PASS
Band41	5MHz	QPSK	41215	25RB#0	4.4895	4.967	PASS
Band41	5MHz	16QAM	40265	25RB#0	4.5113	5.245	PASS
Band41	5MHz	16QAM	40690	25RB#0	4.5196	5.268	PASS
Band41	5MHz	16QAM	41215	25RB#0	4.4864	4.925	PASS
Band41	10MHz	QPSK	40290	50RB#0	9.0079	10.74	PASS
Band41	10MHz	QPSK	40690	50RB#0	9.0111	10.44	PASS
Band41	10MHz	QPSK	41190	50RB#0	8.9905	10.32	PASS
Band41	10MHz	16QAM	40290	50RB#0	8.9908	10.07	PASS
Band41	10MHz	16QAM	40690	50RB#0	9.0021	9.904	PASS
Band41	10MHz	16QAM	41190	50RB#0	8.9754	9.921	PASS
Band41	15MHz	QPSK	40315	75RB#0	13.536	16.36	PASS
Band41	15MHz	QPSK	40690	75RB#0	13.489	15.71	PASS
Band41	15MHz	QPSK	41165	75RB#0	13.465	15.23	PASS
Band41	15MHz	16QAM	40315	75RB#0	13.496	14.97	PASS
Band41	15MHz	16QAM	40690	75RB#0	13.504	15.11	PASS
Band41	15MHz	16QAM	41165	75RB#0	13.489	14.94	PASS
Band41	20MHz	QPSK	40340	100RB#0	18.000	19.61	PASS
Band41	20MHz	QPSK	40690	100RB#0	18.015	19.79	PASS
Band41	20MHz	QPSK	41140	100RB#0	18.001	19.75	PASS
Band41	20MHz	16QAM	40340	100RB#0	17.964	19.77	PASS
Band41	20MHz	16QAM	40690	100RB#0	18.011	19.68	PASS
Band41	20MHz	16QAM	41140	100RB#0	18.007	19.86	PASS
Band66	1.4MHz	QPSK	131979	6RB#0	1.0917	1.242	PASS
Band66	1.4MHz	QPSK	132322	6RB#0	1.0920	1.243	PASS
Band66	1.4MHz	QPSK	132665	6RB#0	1.0958	1.245	PASS
Band66	1.4MHz	16QAM	131979	6RB#0	1.1038	1.249	PASS
Band66	1.4MHz	16QAM	132322	6RB#0	1.0971	1.253	PASS
Band66	1.4MHz	16QAM	132665	6RB#0	1.0973	1.242	PASS
Band66	3MHz	QPSK	131987	15RB#0	2.7134	3.032	PASS
Band66	3MHz	QPSK	132322	15RB#0	2.7065	3.017	PASS
Band66	3MHz	QPSK	132657	15RB#0	2.7172	3.017	PASS
Band66	3MHz	16QAM	131987	15RB#0	2.6974	3.037	PASS
Band66	3MHz	16QAM	132322	15RB#0	2.7035	3.045	PASS
Band66	3MHz	16QAM	132657	15RB#0	2.7033	3.025	PASS
Band66	5MHz	QPSK	131997	25RB#0	4.5047	4.971	PASS
Band66	5MHz	QPSK	132322	25RB#0	4.5008	4.988	PASS
Band66	5MHz	QPSK	132647	25RB#0	4.5113	5.001	PASS
Band66	5MHz	16QAM	131997	25RB#0	4.5049	4.966	PASS
Band66	5MHz	16QAM	132322	25RB#0	4.5103	4.995	PASS
Band66	5MHz	16QAM	132647	25RB#0	4.5227	5.011	PASS
Band66	10MHz	QPSK	132022	50RB#0	8.9919	9.869	PASS
Band66	10MHz	QPSK	132322	50RB#0	9.0084	9.893	PASS
Band66	10MHz	QPSK	132622	50RB#0	8.9799	9.896	PASS
Band66	10MHz	16QAM	132022	50RB#0	8.9908	9.933	PASS
Band66	10MHz	16QAM	132322	50RB#0	8.9963	9.932	PASS
Band66	10MHz	16QAM	132622	50RB#0	9.0123	9.912	PASS
Band66	15MHz	QPSK	132047	75RB#0	13.470	14.96	PASS
Band66	15MHz	QPSK	132322	75RB#0	13.501	14.99	PASS
Band66	15MHz	QPSK	132597	75RB#0	13.462	14.93	PASS
Band66	15MHz	16QAM	132047	75RB#0	13.465	14.94	PASS
Band66	15MHz	16QAM	132322	75RB#0	13.511	14.85	PASS
Band66	15MHz	16QAM	132597	75RB#0	13.526	14.97	PASS
Band66	20MHz	QPSK	132072	100RB#0	17.961	19.67	PASS
Band66	20MHz	QPSK	132322	100RB#0	18.086	19.81	PASS
Band66	20MHz	QPSK	132572	100RB#0	17.980	19.64	PASS
Band66	20MHz	16QAM	132072	100RB#0	18.027	19.66	PASS
Band66	20MHz	16QAM	132322	100RB#0	18.046	19.75	PASS

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Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band66	20MHz	16QAM	132572	100RB#0	18.011	19.83	PASS

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band2	1.4MHz	64QAM	18607	6RB#0	1.0986	1.246	PASS
Band2	1.4MHz	64QAM	18900	6RB#0	1.1011	1.249	PASS
Band2	1.4MHz	64QAM	19193	6RB#0	1.0965	1.252	PASS
Band2	3MHz	64QAM	18615	15RB#0	2.7055	3.008	PASS
Band2	3MHz	64QAM	18900	15RB#0	2.7067	3.044	PASS
Band2	3MHz	64QAM	19185	15RB#0	2.7021	3.038	PASS
Band2	5MHz	64QAM	18625	25RB#0	4.5024	4.964	PASS
Band2	5MHz	64QAM	18900	25RB#0	4.5138	4.992	PASS
Band2	5MHz	64QAM	19175	25RB#0	4.5254	5.009	PASS
Band2	10MHz	64QAM	18650	50RB#0	8.9976	9.892	PASS
Band2	10MHz	64QAM	18900	50RB#0	8.9922	9.976	PASS
Band2	10MHz	64QAM	19150	50RB#0	9.0012	9.971	PASS
Band2	15MHz	64QAM	18675	75RB#0	13.500	14.98	PASS
Band2	15MHz	64QAM	18900	75RB#0	13.539	15.05	PASS
Band2	15MHz	64QAM	19125	75RB#0	13.523	14.95	PASS
Band2	20MHz	64QAM	18700	100RB#0	18.031	19.67	PASS
Band2	20MHz	64QAM	18900	100RB#0	18.044	19.72	PASS
Band2	20MHz	64QAM	19100	100RB#0	17.992	20.62	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	1.0947	1.246	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	1.0910	1.245	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	1.1041	1.248	PASS
Band4	3MHz	64QAM	19965	15RB#0	2.7015	3.020	PASS
Band4	3MHz	64QAM	20175	15RB#0	2.7049	3.037	PASS
Band4	3MHz	64QAM	20385	15RB#0	2.7070	3.045	PASS
Band4	5MHz	64QAM	19975	25RB#0	4.5144	4.988	PASS
Band4	5MHz	64QAM	20175	25RB#0	4.5289	5.002	PASS
Band4	5MHz	64QAM	20375	25RB#0	4.5015	4.969	PASS
Band4	10MHz	64QAM	20000	50RB#0	8.9970	9.933	PASS
Band4	10MHz	64QAM	20175	50RB#0	9.0120	9.964	PASS
Band4	10MHz	64QAM	20350	50RB#0	8.9920	9.935	PASS
Band4	15MHz	64QAM	20025	75RB#0	13.489	14.89	PASS
Band4	15MHz	64QAM	20175	75RB#0	13.525	15.03	PASS
Band4	15MHz	64QAM	20325	75RB#0	13.490	15.06	PASS
Band4	20MHz	64QAM	20050	100RB#0	17.985	20.32	PASS
Band4	20MHz	64QAM	20175	100RB#0	18.017	19.84	PASS
Band4	20MHz	64QAM	20300	100RB#0	18.044	19.73	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	1.1050	1.244	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	1.0969	1.249	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	1.0898	1.240	PASS
Band5	3MHz	64QAM	20415	15RB#0	2.7058	3.022	PASS
Band5	3MHz	64QAM	20525	15RB#0	2.7074	3.034	PASS
Band5	3MHz	64QAM	20635	15RB#0	2.7098	3.015	PASS
Band5	5MHz	64QAM	20425	25RB#0	4.5025	4.955	PASS
Band5	5MHz	64QAM	20525	25RB#0	4.5140	4.980	PASS
Band5	5MHz	64QAM	20625	25RB#0	4.5351	4.991	PASS
Band5	10MHz	64QAM	20450	50RB#0	9.0003	9.880	PASS
Band5	10MHz	64QAM	20525	50RB#0	9.0031	9.927	PASS
Band5	10MHz	64QAM	20600	50RB#0	8.9783	9.883	PASS
Band7	5MHz	64QAM	20775	25RB#0	4.5050	4.978	PASS
Band7	5MHz	64QAM	21100	25RB#0	4.5085	4.991	PASS
Band7	5MHz	64QAM	21425	25RB#0	4.5294	4.992	PASS
Band7	10MHz	64QAM	20800	50RB#0	8.9894	9.904	PASS
Band7	10MHz	64QAM	21100	50RB#0	9.0068	9.926	PASS
Band7	10MHz	64QAM	21400	50RB#0	9.0171	9.918	PASS
Band7	15MHz	64QAM	20825	75RB#0	13.493	14.90	PASS

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UTTR-RF-FCC4G-V1.1

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	15MHz	64QAM	21100	75RB#0	13.502	15.03	PASS
Band7	15MHz	64QAM	21375	75RB#0	13.533	15.01	PASS
Band7	20MHz	64QAM	20850	100RB#0	17.968	19.80	PASS
Band7	20MHz	64QAM	21100	100RB#0	18.014	19.82	PASS
Band7	20MHz	64QAM	21350	100RB#0	18.025	19.72	PASS
Band41	5MHz	64QAM	40265	25RB#0	4.4937	4.962	PASS
Band41	5MHz	64QAM	40690	25RB#0	4.4977	5.024	PASS
Band41	5MHz	64QAM	41215	25RB#0	4.5172	5.261	PASS
Band41	10MHz	64QAM	40290	50RB#0	8.9941	9.986	PASS
Band41	10MHz	64QAM	40690	50RB#0	9.0030	9.949	PASS
Band41	10MHz	64QAM	41190	50RB#0	8.9848	9.977	PASS
Band41	15MHz	64QAM	40315	75RB#0	13.495	15.14	PASS
Band41	15MHz	64QAM	40690	75RB#0	13.518	14.92	PASS
Band41	15MHz	64QAM	41165	75RB#0	13.510	14.94	PASS
Band41	20MHz	64QAM	40340	100RB#0	17.950	19.66	PASS
Band41	20MHz	64QAM	40690	100RB#0	17.998	19.81	PASS
Band41	20MHz	64QAM	41140	100RB#0	18.007	19.60	PASS
Band66	1.4MHz	64QAM	131979	6RB#0	1.1032	1.246	PASS
Band66	1.4MHz	64QAM	132322	6RB#0	1.0996	1.251	PASS
Band66	1.4MHz	64QAM	132665	6RB#0	1.0896	1.243	PASS
Band66	3MHz	64QAM	131987	15RB#0	2.7024	3.020	PASS
Band66	3MHz	64QAM	132322	15RB#0	2.7064	3.030	PASS
Band66	3MHz	64QAM	132657	15RB#0	2.7037	3.013	PASS
Band66	5MHz	64QAM	131997	25RB#0	4.5053	4.944	PASS
Band66	5MHz	64QAM	132322	25RB#0	4.5131	4.985	PASS
Band66	5MHz	64QAM	132647	25RB#0	4.5284	4.994	PASS
Band66	10MHz	64QAM	132022	50RB#0	8.9871	9.925	PASS
Band66	10MHz	64QAM	132322	50RB#0	9.0014	9.940	PASS
Band66	10MHz	64QAM	132622	50RB#0	8.9929	9.891	PASS
Band66	15MHz	64QAM	132047	75RB#0	13.487	14.90	PASS
Band66	15MHz	64QAM	132322	75RB#0	13.521	15.00	PASS
Band66	15MHz	64QAM	132597	75RB#0	13.505	14.99	PASS
Band66	20MHz	64QAM	132072	100RB#0	17.939	19.68	PASS
Band66	20MHz	64QAM	132322	100RB#0	18.034	19.83	PASS
Band66	20MHz	64QAM	132572	100RB#0	18.000	19.75	PASS

Test Graphs

