



Appendix H: Test Data for E-UTRA Band 38

Product Name: Smart Phone

Test Model: K1

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li Huan



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H.1 Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	21.22	PASS
Band38	5MHz	QPSK	37775	1RB#12	21.33	PASS
Band38	5MHz	QPSK	37775	1RB#24	21.17	PASS
Band38	5MHz	QPSK	37775	12RB#0	20.25	PASS
Band38	5MHz	QPSK	37775	12RB#6	20.26	PASS
Band38	5MHz	QPSK	37775	12RB#13	20.30	PASS
Band38	5MHz	QPSK	37775	25RB#0	20.31	PASS
Band38	5MHz	QPSK	38000	1RB#0	21.22	PASS
Band38	5MHz	QPSK	38000	1RB#12	21.25	PASS
Band38	5MHz	QPSK	38000	1RB#24	21.11	PASS
Band38	5MHz	QPSK	38000	12RB#0	20.15	PASS
Band38	5MHz	QPSK	38000	12RB#6	20.15	PASS
Band38	5MHz	QPSK	38000	12RB#13	20.13	PASS
Band38	5MHz	QPSK	38000	25RB#0	20.14	PASS
Band38	5MHz	QPSK	38225	1RB#0	21.06	PASS
Band38	5MHz	QPSK	38225	1RB#12	21.20	PASS
Band38	5MHz	QPSK	38225	1RB#24	21.12	PASS
Band38	5MHz	QPSK	38225	12RB#0	20.08	PASS
Band38	5MHz	QPSK	38225	12RB#6	20.10	PASS
Band38	5MHz	QPSK	38225	12RB#13	20.18	PASS
Band38	5MHz	QPSK	38225	25RB#0	20.18	PASS
Band38	5MHz	16QAM	37775	1RB#0	20.32	PASS
Band38	5MHz	16QAM	37775	1RB#12	20.40	PASS
Band38	5MHz	16QAM	37775	1RB#24	20.28	PASS
Band38	5MHz	16QAM	37775	12RB#0	19.30	PASS
Band38	5MHz	16QAM	37775	12RB#6	19.31	PASS
Band38	5MHz	16QAM	37775	12RB#13	19.24	PASS
Band38	5MHz	16QAM	37775	25RB#0	19.25	PASS
Band38	5MHz	16QAM	38000	1RB#0	20.12	PASS
Band38	5MHz	16QAM	38000	1RB#12	20.15	PASS



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Band38	5MHz	16QAM	38000	1RB#24	20.02	PASS
Band38	5MHz	16QAM	38000	12RB#0	19.10	PASS
Band38	5MHz	16QAM	38000	12RB#6	19.10	PASS
Band38	5MHz	16QAM	38000	12RB#13	19.11	PASS
Band38	5MHz	16QAM	38000	25RB#0	19.17	PASS
Band38	5MHz	16QAM	38225	1RB#0	20.10	PASS
Band38	5MHz	16QAM	38225	1RB#12	20.24	PASS
Band38	5MHz	16QAM	38225	1RB#24	20.17	PASS
Band38	5MHz	16QAM	38225	12RB#0	19.13	PASS
Band38	5MHz	16QAM	38225	12RB#6	19.12	PASS
Band38	5MHz	16QAM	38225	12RB#13	19.20	PASS
Band38	5MHz	16QAM	38225	25RB#0	19.15	PASS
Band38	10MHz	QPSK	37800	1RB#0	21.21	PASS
Band38	10MHz	QPSK	37800	1RB#24	21.54	PASS
Band38	10MHz	QPSK	37800	1RB#49	21.28	PASS
Band38	10MHz	QPSK	37800	25RB#0	20.33	PASS
Band38	10MHz	QPSK	37800	25RB#12	20.33	PASS
Band38	10MHz	QPSK	37800	25RB#25	20.27	PASS
Band38	10MHz	QPSK	37800	50RB#0	20.28	PASS
Band38	10MHz	QPSK	38000	1RB#0	21.24	PASS
Band38	10MHz	QPSK	38000	1RB#24	21.43	PASS
Band38	10MHz	QPSK	38000	1RB#49	21.03	PASS
Band38	10MHz	QPSK	38000	25RB#0	20.23	PASS
Band38	10MHz	QPSK	38000	25RB#12	20.21	PASS
Band38	10MHz	QPSK	38000	25RB#25	20.21	PASS
Band38	10MHz	QPSK	38000	50RB#0	20.23	PASS
Band38	10MHz	QPSK	38200	1RB#0	21.04	PASS
Band38	10MHz	QPSK	38200	1RB#24	21.47	PASS
Band38	10MHz	QPSK	38200	1RB#49	21.23	PASS
Band38	10MHz	QPSK	38200	25RB#0	20.11	PASS
Band38	10MHz	QPSK	38200	25RB#12	20.12	PASS
Band38	10MHz	QPSK	38200	25RB#25	20.27	PASS
Band38	10MHz	QPSK	38200	50RB#0	20.17	PASS
Band38	10MHz	16QAM	37800	1RB#0	20.24	PASS
Band38	10MHz	16QAM	37800	1RB#24	20.58	PASS



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Band38	10MHz	16QAM	37800	1RB#49	20.33	PASS
Band38	10MHz	16QAM	37800	25RB#0	19.32	PASS
Band38	10MHz	16QAM	37800	25RB#12	19.33	PASS
Band38	10MHz	16QAM	37800	25RB#25	19.28	PASS
Band38	10MHz	16QAM	37800	50RB#0	19.33	PASS
Band38	10MHz	16QAM	38000	1RB#0	20.19	PASS
Band38	10MHz	16QAM	38000	1RB#24	20.45	PASS
Band38	10MHz	16QAM	38000	1RB#49	20.08	PASS
Band38	10MHz	16QAM	38000	25RB#0	19.21	PASS
Band38	10MHz	16QAM	38000	25RB#12	19.23	PASS
Band38	10MHz	16QAM	38000	25RB#25	19.23	PASS
Band38	10MHz	16QAM	38000	50RB#0	19.23	PASS
Band38	10MHz	16QAM	38200	1RB#0	19.89	PASS
Band38	10MHz	16QAM	38200	1RB#24	20.26	PASS
Band38	10MHz	16QAM	38200	1RB#49	20.07	PASS
Band38	10MHz	16QAM	38200	25RB#0	19.14	PASS
Band38	10MHz	16QAM	38200	25RB#12	19.14	PASS
Band38	10MHz	16QAM	38200	25RB#25	19.29	PASS
Band38	10MHz	16QAM	38200	50RB#0	19.22	PASS
Band38	15MHz	QPSK	37825	1RB#0	21.18	PASS
Band38	15MHz	QPSK	37825	1RB#38	21.36	PASS
Band38	15MHz	QPSK	37825	1RB#74	21.26	PASS
Band38	15MHz	QPSK	37825	38RB#0	20.30	PASS
Band38	15MHz	QPSK	37825	38RB#18	20.33	PASS
Band38	15MHz	QPSK	37825	38RB#37	20.04	PASS
Band38	15MHz	QPSK	37825	75RB#0	20.35	PASS
Band38	15MHz	QPSK	38000	1RB#0	21.12	PASS
Band38	15MHz	QPSK	38000	1RB#38	21.09	PASS
Band38	15MHz	QPSK	38000	1RB#74	20.98	PASS
Band38	15MHz	QPSK	38000	38RB#0	19.93	PASS
Band38	15MHz	QPSK	38000	38RB#18	20.25	PASS
Band38	15MHz	QPSK	38000	38RB#37	19.64	PASS
Band38	15MHz	QPSK	38000	75RB#0	20.20	PASS
Band38	15MHz	QPSK	38175	1RB#0	20.98	PASS
Band38	15MHz	QPSK	38175	1RB#38	21.08	PASS



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Band38	15MHz	QPSK	38175	1RB#74	21.09	PASS
Band38	15MHz	QPSK	38175	38RB#0	19.73	PASS
Band38	15MHz	QPSK	38175	38RB#18	19.85	PASS
Band38	15MHz	QPSK	38175	38RB#37	20.09	PASS
Band38	15MHz	QPSK	38175	75RB#0	20.08	PASS
Band38	15MHz	16QAM	37825	1RB#0	19.97	PASS
Band38	15MHz	16QAM	37825	1RB#38	20.10	PASS
Band38	15MHz	16QAM	37825	1RB#74	20.33	PASS
Band38	15MHz	16QAM	37825	38RB#0	20.19	PASS
Band38	15MHz	16QAM	37825	38RB#18	20.10	PASS
Band38	15MHz	16QAM	37825	38RB#37	20.03	PASS
Band38	15MHz	16QAM	37825	75RB#0	19.29	PASS
Band38	15MHz	16QAM	38000	1RB#0	20.20	PASS
Band38	15MHz	16QAM	38000	1RB#38	19.95	PASS
Band38	15MHz	16QAM	38000	1RB#74	19.68	PASS
Band38	15MHz	16QAM	38000	38RB#0	20.25	PASS
Band38	15MHz	16QAM	38000	38RB#18	19.99	PASS
Band38	15MHz	16QAM	38000	38RB#37	19.98	PASS
Band38	15MHz	16QAM	38000	75RB#0	19.19	PASS
Band38	15MHz	16QAM	38175	1RB#0	19.95	PASS
Band38	15MHz	16QAM	38175	1RB#38	20.07	PASS
Band38	15MHz	16QAM	38175	1RB#74	19.88	PASS
Band38	15MHz	16QAM	38175	38RB#0	19.72	PASS
Band38	15MHz	16QAM	38175	38RB#18	20.08	PASS
Band38	15MHz	16QAM	38175	38RB#37	20.10	PASS
Band38	15MHz	16QAM	38175	75RB#0	19.06	PASS
Band38	20MHz	QPSK	37850	1RB#0	20.96	PASS
Band38	20MHz	QPSK	37850	1RB#49	21.45	PASS
Band38	20MHz	QPSK	37850	1RB#99	20.99	PASS
Band38	20MHz	QPSK	37850	50RB#0	20.21	PASS
Band38	20MHz	QPSK	37850	50RB#25	20.19	PASS
Band38	20MHz	QPSK	37850	50RB#50	20.14	PASS
Band38	20MHz	QPSK	37850	100RB#0	20.21	PASS
Band38	20MHz	QPSK	38000	1RB#0	21.03	PASS
Band38	20MHz	QPSK	38000	1RB#49	21.41	PASS



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Band38	20MHz	QPSK	38000	1RB#99	20.79	PASS
Band38	20MHz	QPSK	38000	50RB#0	20.14	PASS
Band38	20MHz	QPSK	38000	50RB#25	20.14	PASS
Band38	20MHz	QPSK	38000	50RB#50	20.07	PASS
Band38	20MHz	QPSK	38000	100RB#0	20.16	PASS
Band38	20MHz	QPSK	38150	1RB#0	20.80	PASS
Band38	20MHz	QPSK	38150	1RB#49	21.24	PASS
Band38	20MHz	QPSK	38150	1RB#99	20.90	PASS
Band38	20MHz	QPSK	38150	50RB#0	19.96	PASS
Band38	20MHz	QPSK	38150	50RB#25	19.96	PASS
Band38	20MHz	QPSK	38150	50RB#50	20.07	PASS
Band38	20MHz	QPSK	38150	100RB#0	20.04	PASS
Band38	20MHz	16QAM	37850	1RB#0	19.73	PASS
Band38	20MHz	16QAM	37850	1RB#49	20.39	PASS
Band38	20MHz	16QAM	37850	1RB#99	20.04	PASS
Band38	20MHz	16QAM	37850	50RB#0	19.22	PASS
Band38	20MHz	16QAM	37850	50RB#25	19.28	PASS
Band38	20MHz	16QAM	37850	50RB#50	19.18	PASS
Band38	20MHz	16QAM	37850	100RB#0	19.22	PASS
Band38	20MHz	16QAM	38000	1RB#0	19.93	PASS
Band38	20MHz	16QAM	38000	1RB#49	20.31	PASS
Band38	20MHz	16QAM	38000	1RB#99	19.68	PASS
Band38	20MHz	16QAM	38000	50RB#0	19.17	PASS
Band38	20MHz	16QAM	38000	50RB#25	19.20	PASS
Band38	20MHz	16QAM	38000	50RB#50	19.09	PASS
Band38	20MHz	16QAM	38000	100RB#0	19.13	PASS
Band38	20MHz	16QAM	38150	1RB#0	19.92	PASS
Band38	20MHz	16QAM	38150	1RB#49	20.10	PASS
Band38	20MHz	16QAM	38150	1RB#99	19.79	PASS
Band38	20MHz	16QAM	38150	50RB#0	18.98	PASS
Band38	20MHz	16QAM	38150	50RB#25	19.00	PASS
Band38	20MHz	16QAM	38150	50RB#50	19.14	PASS
Band38	20MHz	16QAM	38150	100RB#0	19.03	PASS



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H.2 Peak-to-Average Ratio(CCDF)

Test Result

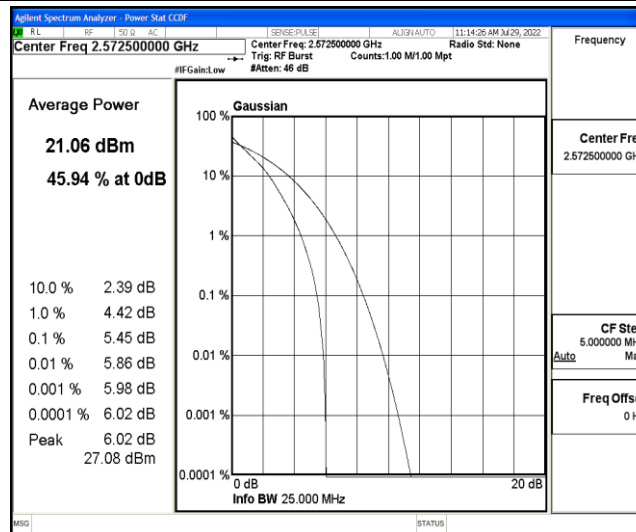
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	5.45	13	PASS
Band38	5MHz	QPSK	38000	25RB#0	5.46	13	PASS
Band38	5MHz	QPSK	38225	25RB#0	5.56	13	PASS
Band38	5MHz	16QAM	37775	25RB#0	6.15	13	PASS
Band38	5MHz	16QAM	38000	25RB#0	6.13	13	PASS
Band38	5MHz	16QAM	38225	25RB#0	6.44	13	PASS
Band38	10MHz	QPSK	37800	50RB#0	5.47	13	PASS
Band38	10MHz	QPSK	38000	50RB#0	5.46	13	PASS
Band38	10MHz	QPSK	38200	50RB#0	5.54	13	PASS
Band38	10MHz	16QAM	37800	50RB#0	6.30	13	PASS
Band38	10MHz	16QAM	38000	50RB#0	6.27	13	PASS
Band38	10MHz	16QAM	38200	50RB#0	6.30	13	PASS
Band38	15MHz	QPSK	37825	75RB#0	5.79	13	PASS
Band38	15MHz	QPSK	38000	75RB#0	5.78	13	PASS
Band38	15MHz	QPSK	38175	75RB#0	5.91	13	PASS
Band38	15MHz	16QAM	37825	75RB#0	6.38	13	PASS
Band38	15MHz	16QAM	38000	75RB#0	6.38	13	PASS
Band38	15MHz	16QAM	38175	75RB#0	6.43	13	PASS
Band38	20MHz	QPSK	37850	100RB#0	5.50	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	5.61	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	5.58	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	6.30	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	6.32	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	6.30	13	PASS



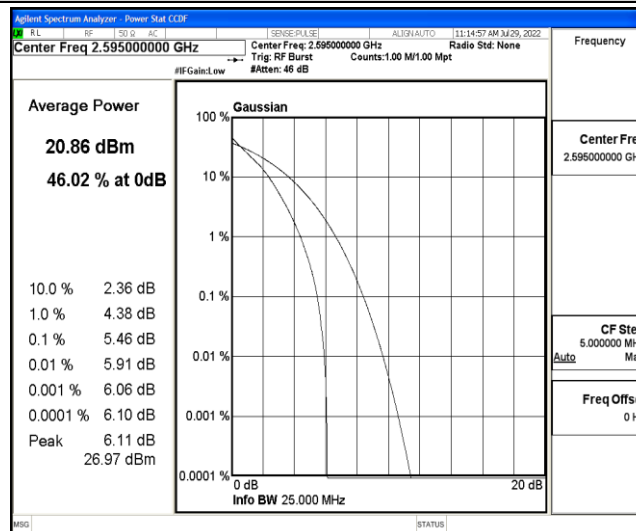


Test Graphs

Band38-5MHz-QPSK-37775-25RB#0

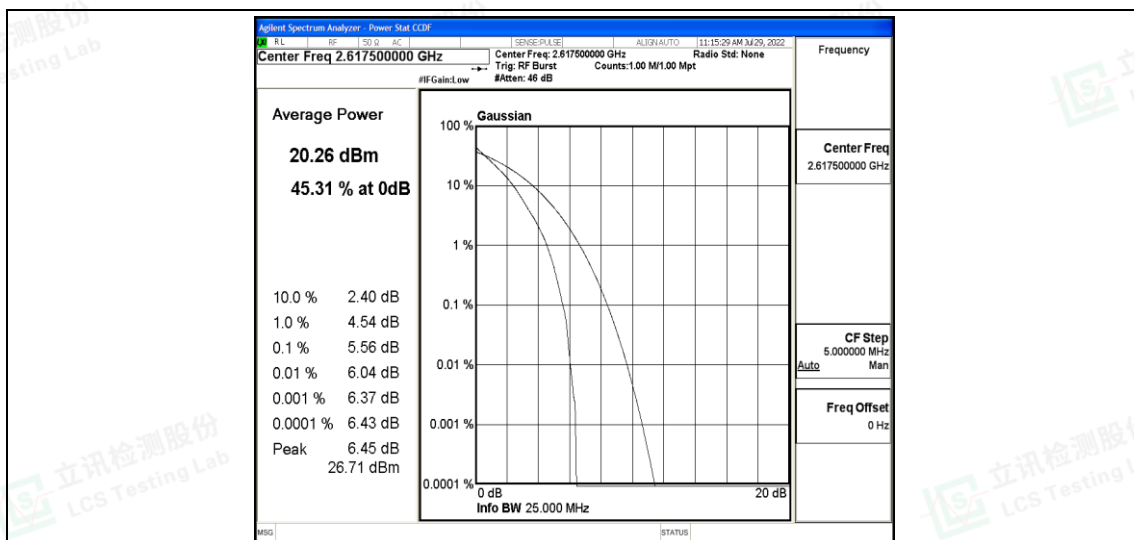


Band38-5MHz-QPSK-38000-25RB#0

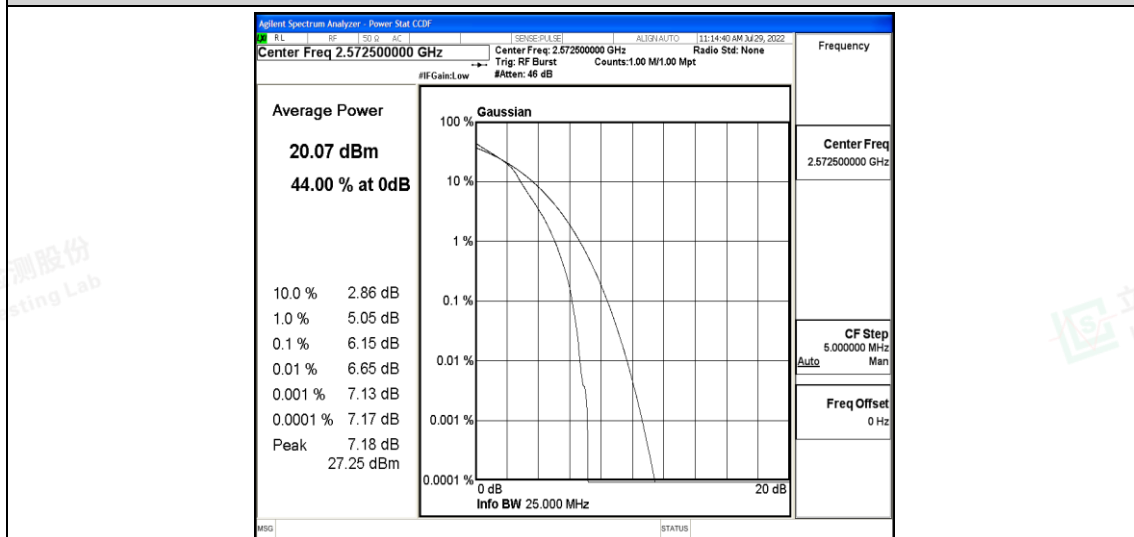


Band38-5MHz-QPSK-38225-25RB#0

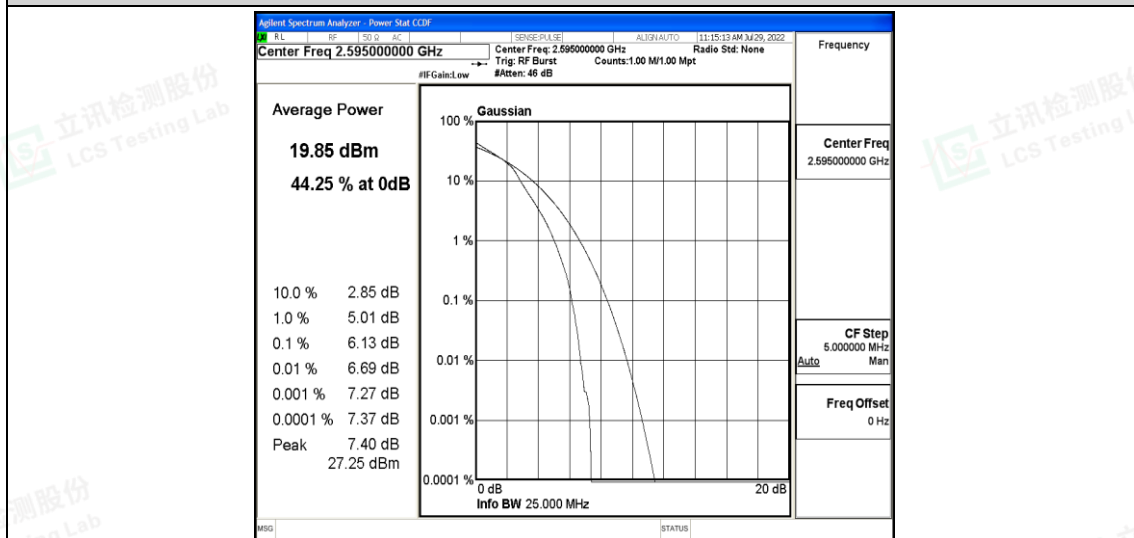




Band38-5MHz-16QAM-37775-25RB#0

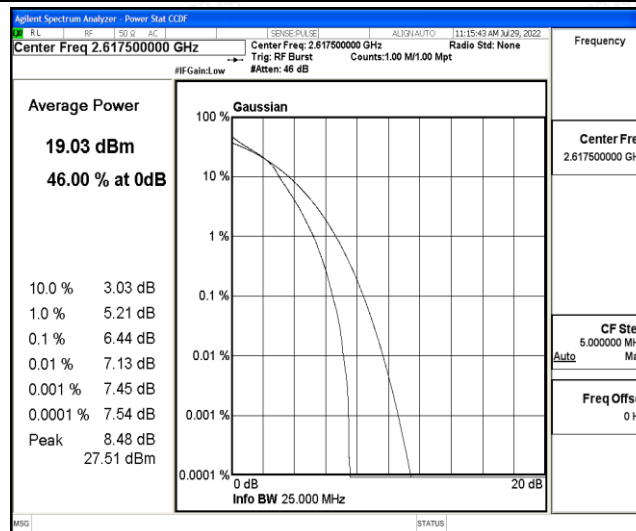


Band38-5MHz-16QAM-38000-25RB#0

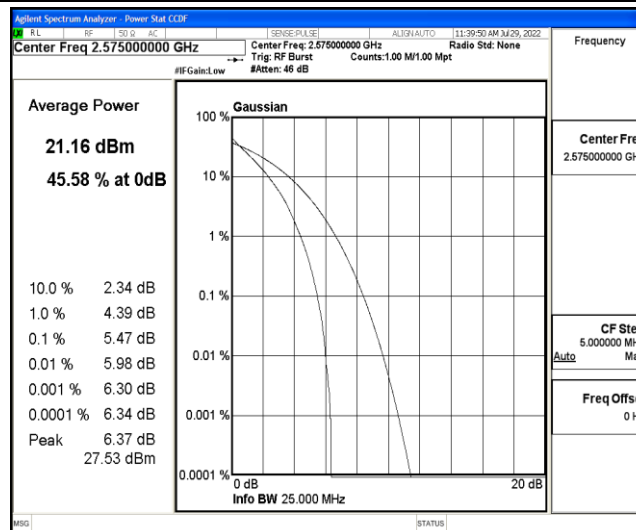


Band38-5MHz-16QAM-38225-25RB#0

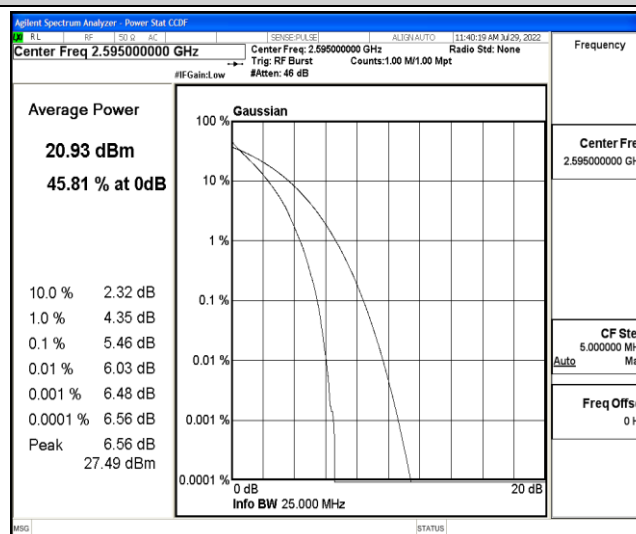




Band38-10MHz-QPSK-37800-50RB#0

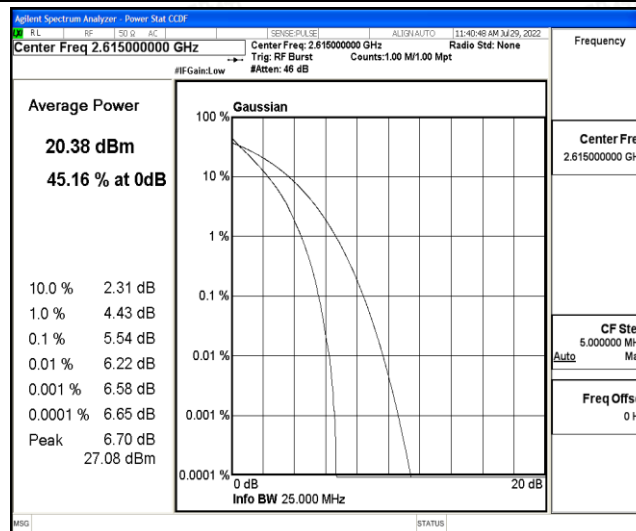


Band38-10MHz-QPSK-38000-50RB#0

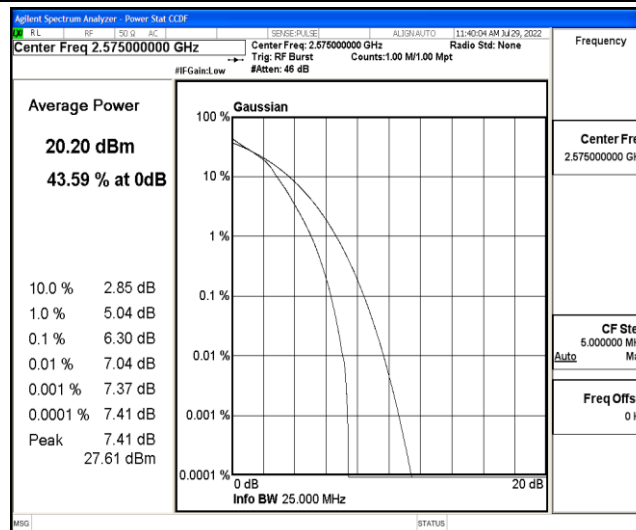


Band38-10MHz-QPSK-38200-50RB#0

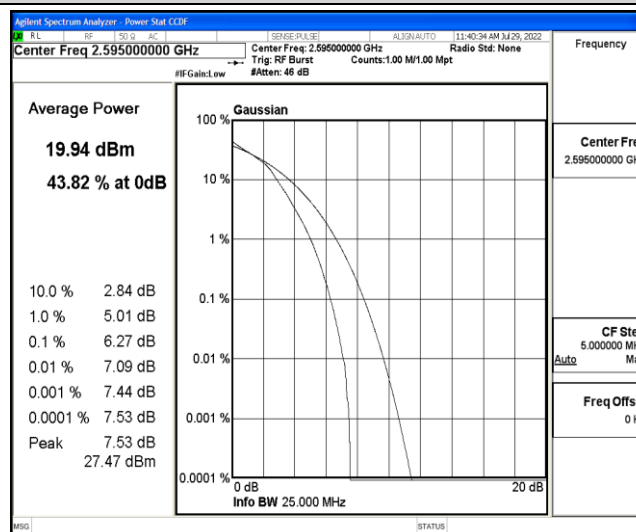




Band38-10MHz-16QAM-37800-50RB#0

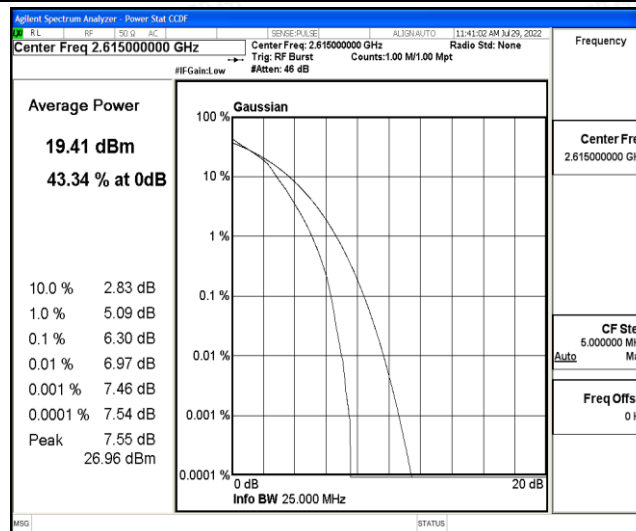


Band38-10MHz-16QAM-38000-50RB#0

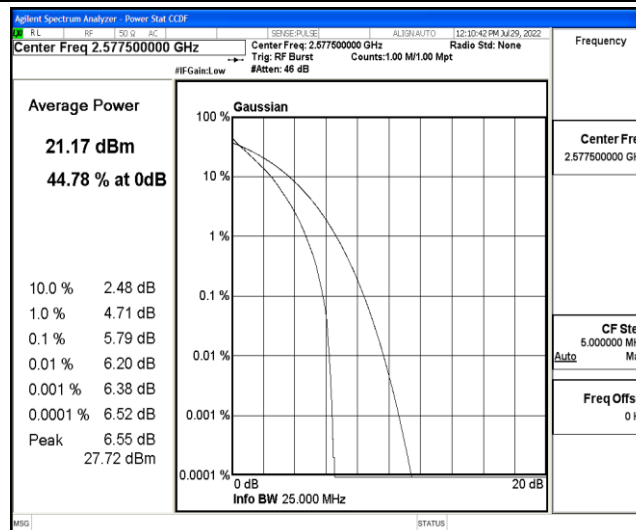


Band38-10MHz-16QAM-38200-50RB#0

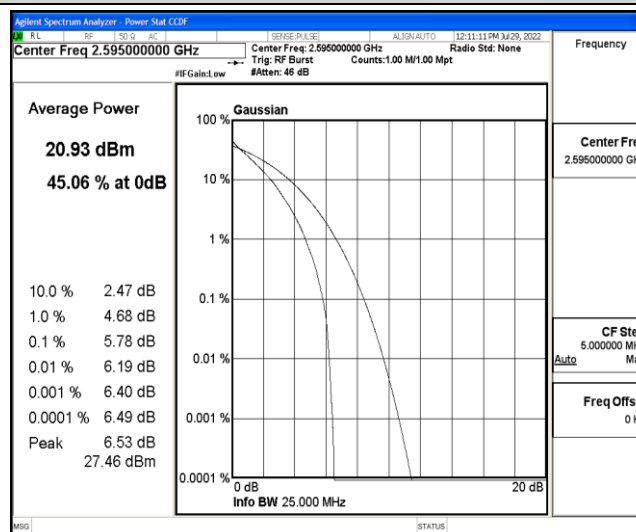




Band38-15MHz-QPSK-37825-75RB#0

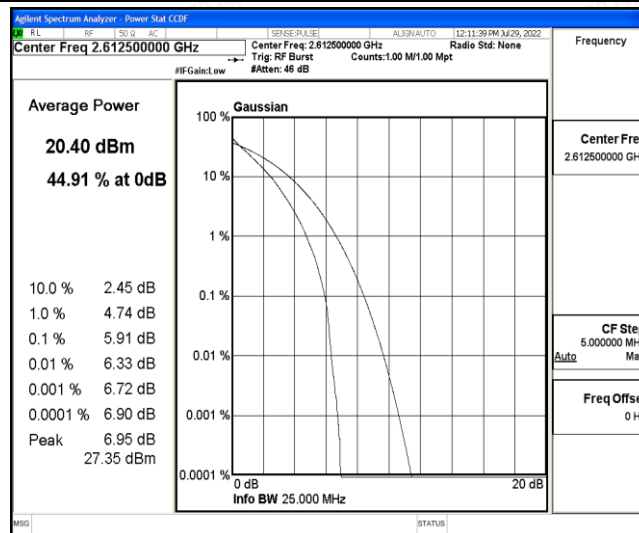


Band38-15MHz-QPSK-38000-75RB#0

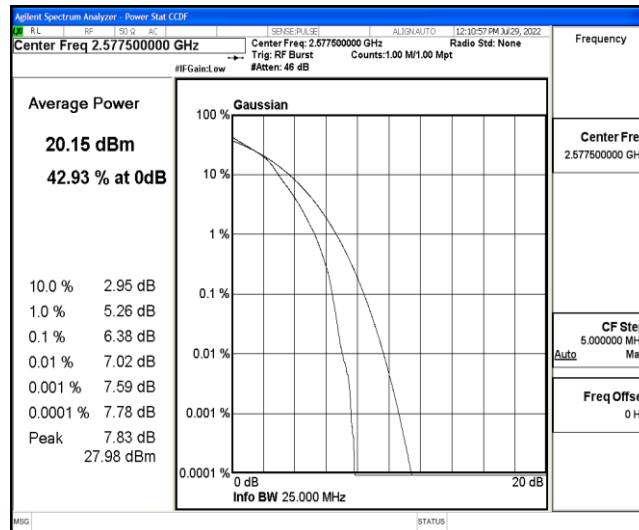


Band38-15MHz-QPSK-38175-75RB#0

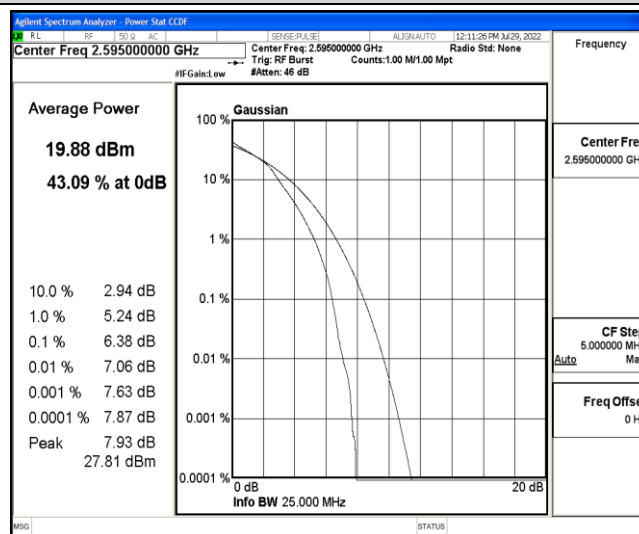




Band38-15MHz-16QAM-37825-75RB#0

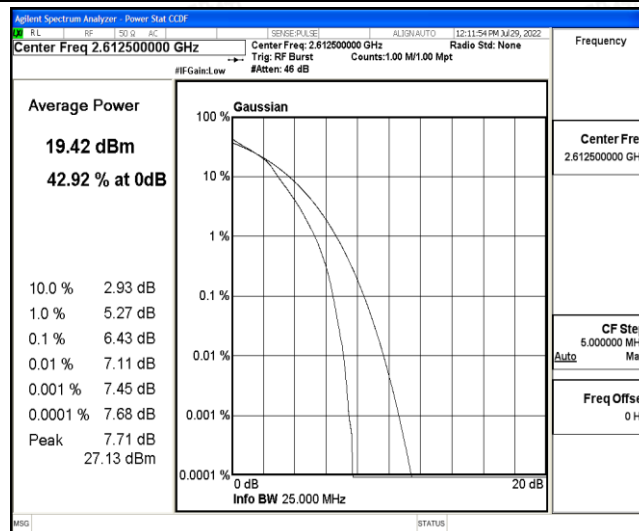


Band38-15MHz-16QAM-38000-75RB#0

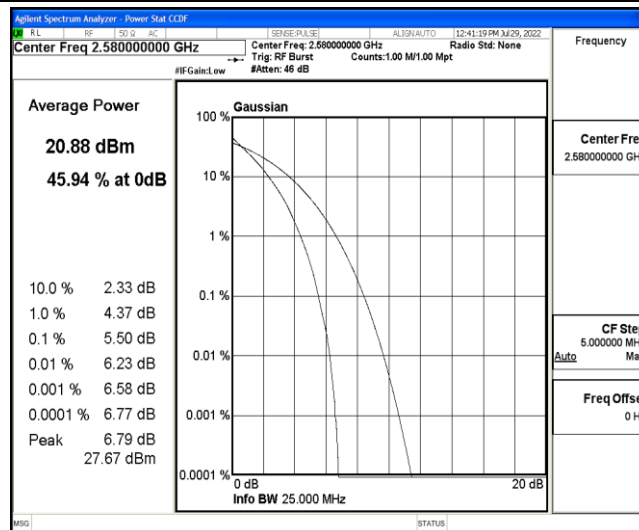


Band38-15MHz-16QAM-38175-75RB#0

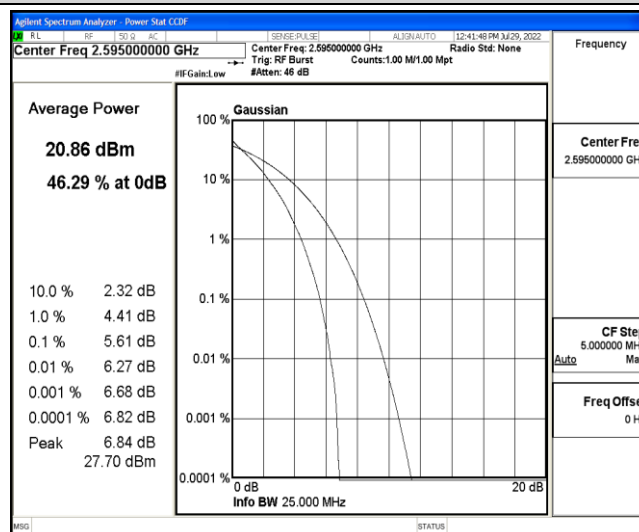




Band38-20MHz-QPSK-37850-100RB#0

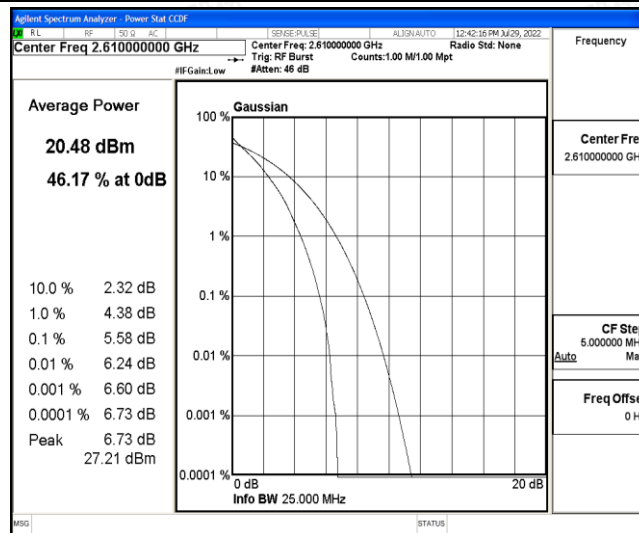


Band38-20MHz-QPSK-38000-100RB#0

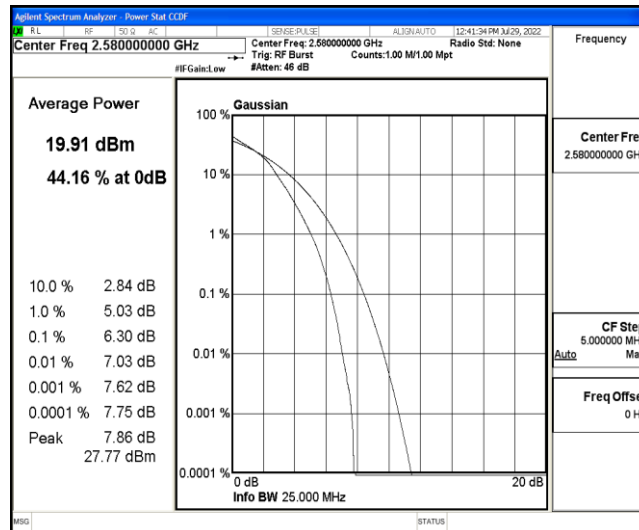


Band38-20MHz-QPSK-38150-100RB#0

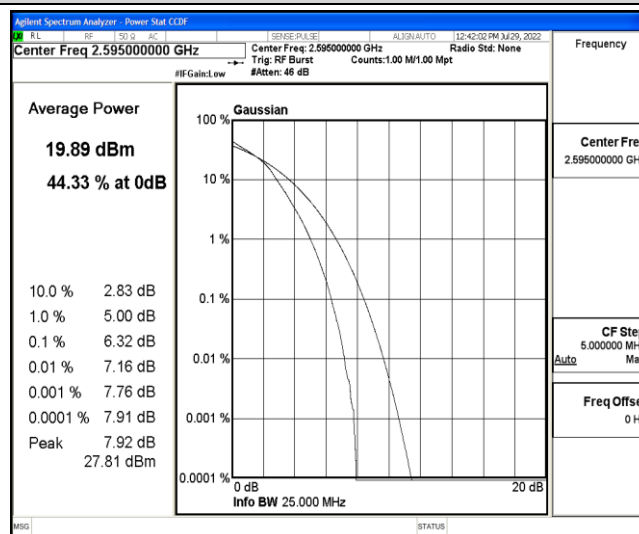




Band38-20MHz-16QAM-37850-100RB#0

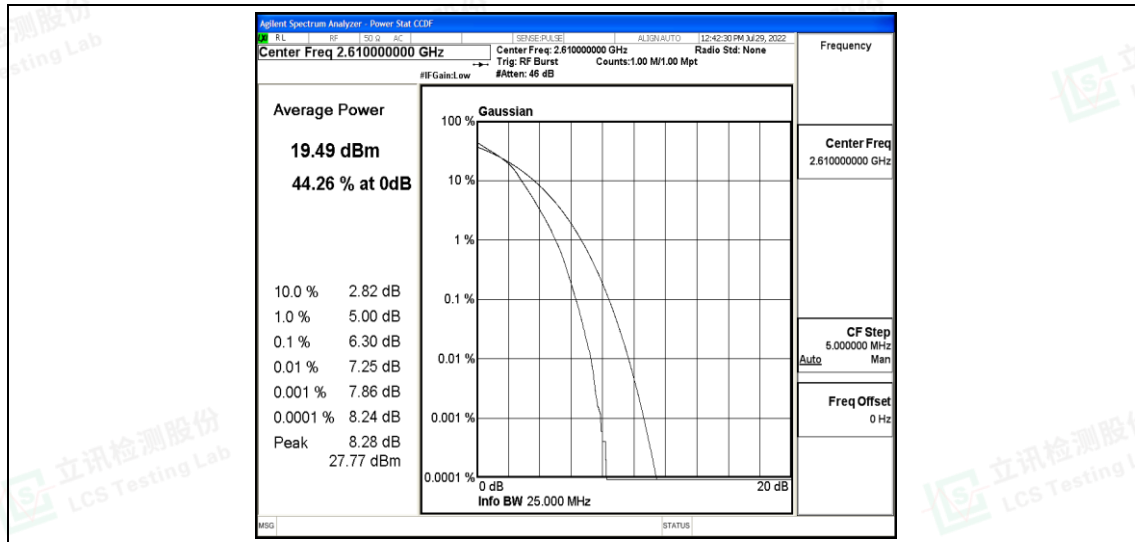


Band38-20MHz-16QAM-38000-100RB#0



Band38-20MHz-16QAM-38150-100RB#0







H.3 26dB Bandwidth and Occupied Bandwidth

Test Result

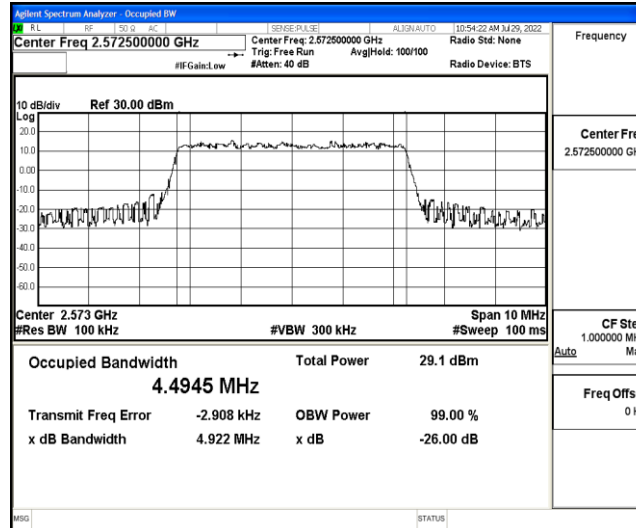
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	4.4945	4.922	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.4945	4.919	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.4965	5.165	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.4827	5.139	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.4997	5.124	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.4784	4.870	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.9858	10.03	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.9924	9.708	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.9723	10.28	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.9840	9.815	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.9956	10.16	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.9862	10.66	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.426	15.81	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.465	16.13	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.419	16.66	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.493	16.03	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.460	16.22	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.513	26.43	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.943	19.13	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.870	19.46	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.834	20.28	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.884	19.29	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.898	19.92	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.914	20.99	PASS



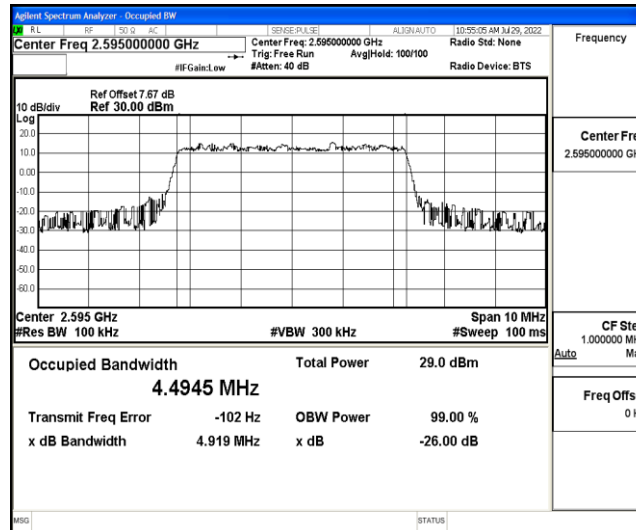


Test Graphs

Band38-5MHz-QPSK-37775-25RB#0

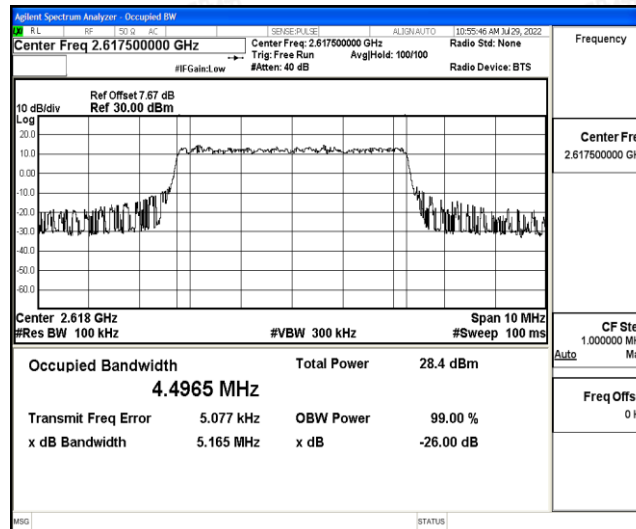


Band38-5MHz-QPSK-38000-25RB#0

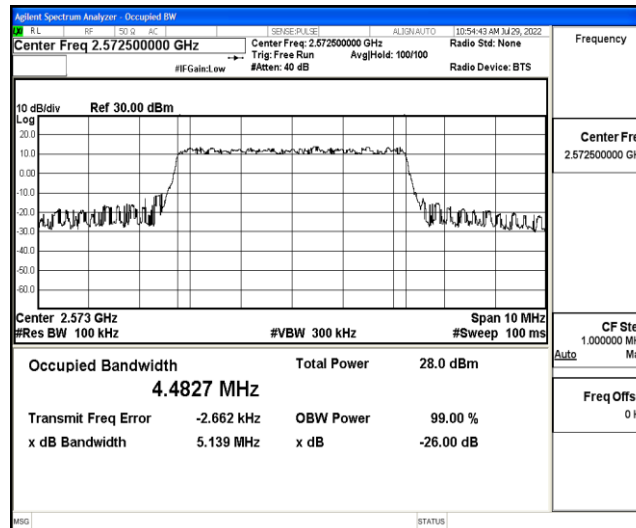


Band38-5MHz-QPSK-38225-25RB#0

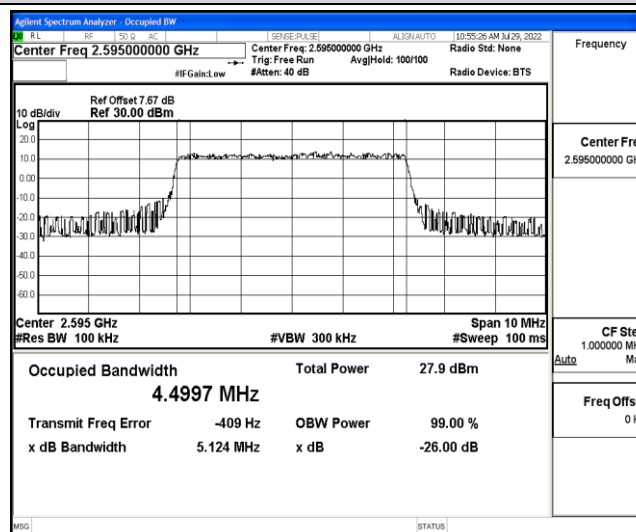




Band38-5MHz-16QAM-37775-25RB#0



Band38-5MHz-16QAM-38000-25RB#0



Band38-5MHz-16QAM-38225-25RB#0

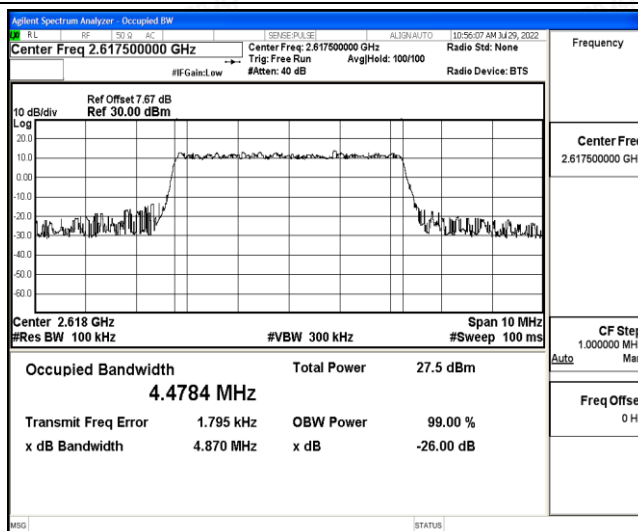


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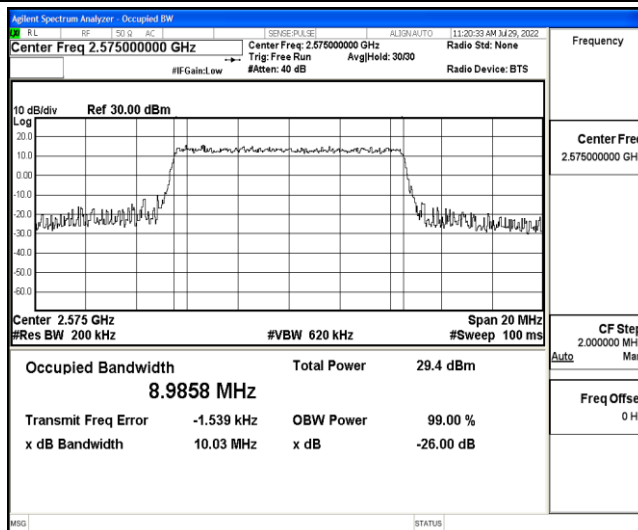
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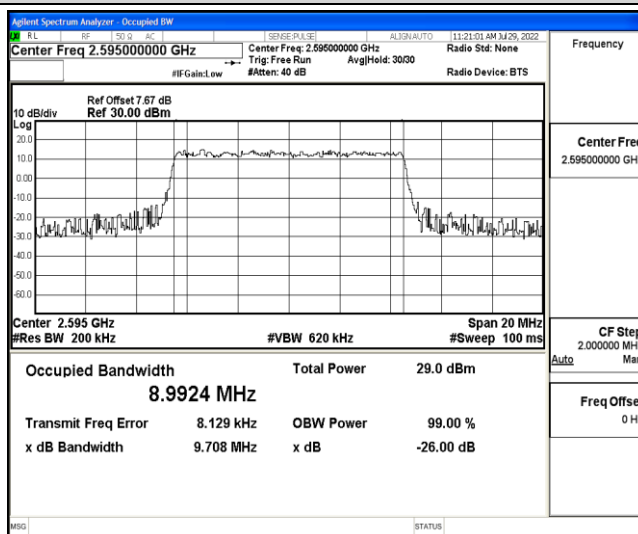
Scan code to check authenticity



Band38-10MHz-QPSK-37800-50RB#0



Band38-10MHz-QPSK-38000-50RB#0



Band38-10MHz-QPSK-38200-50RB#0

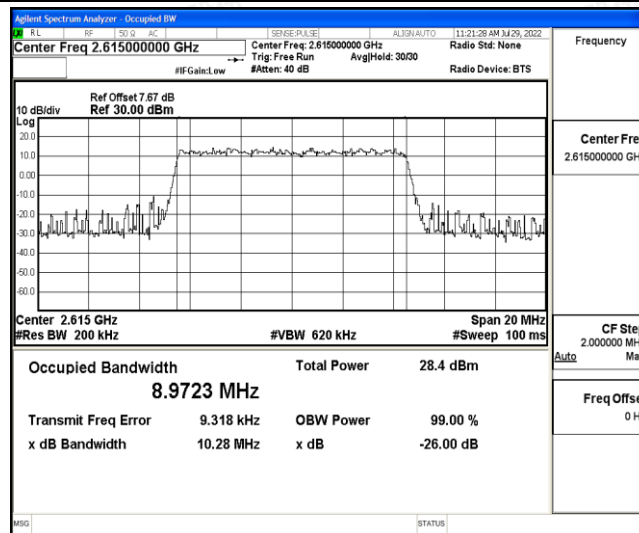


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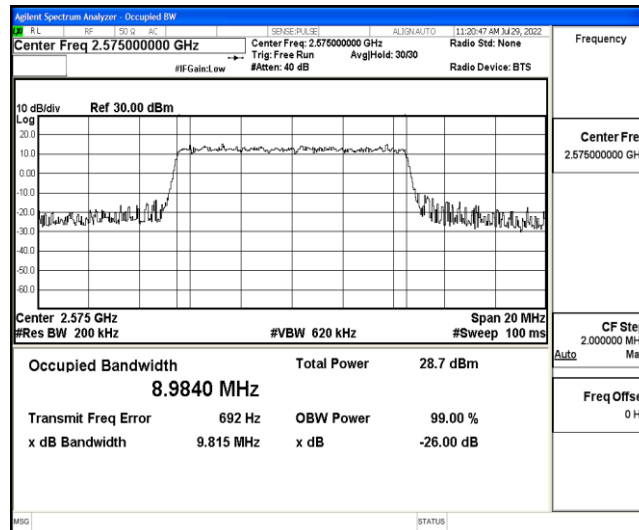
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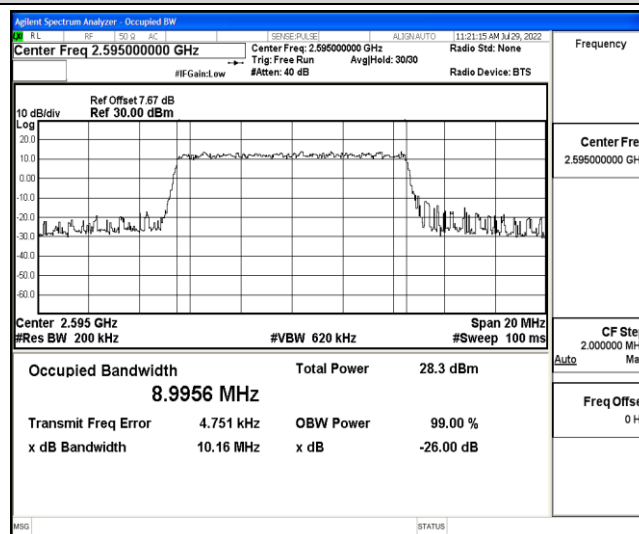
Scan code to check authenticity



Band38-10MHz-16QAM-37800-50RB#0

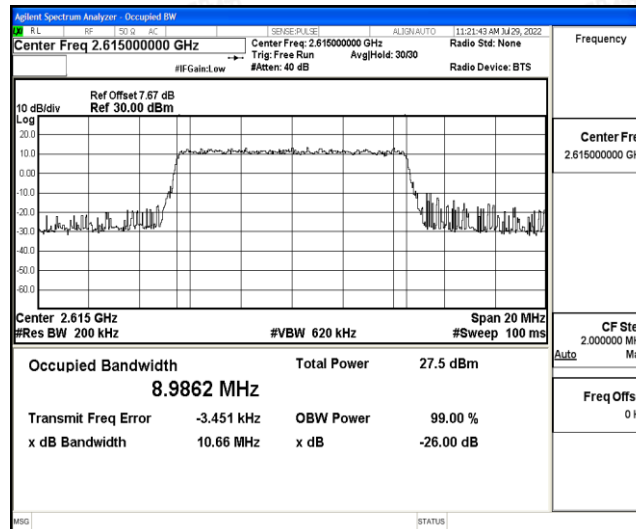


Band38-10MHz-16QAM-38000-50RB#0

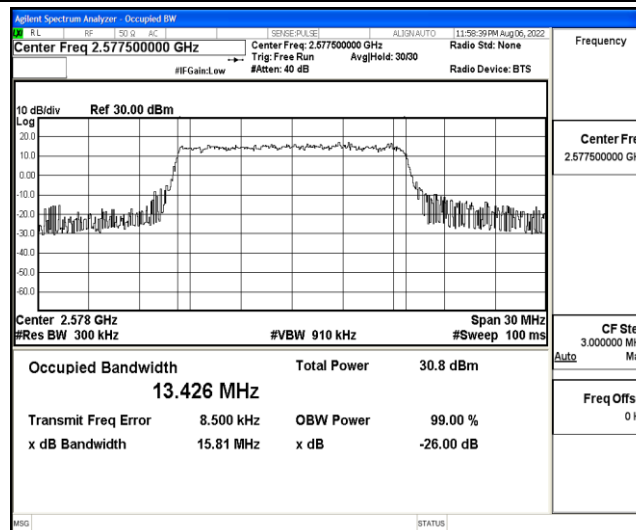


Band38-10MHz-16QAM-38200-50RB#0

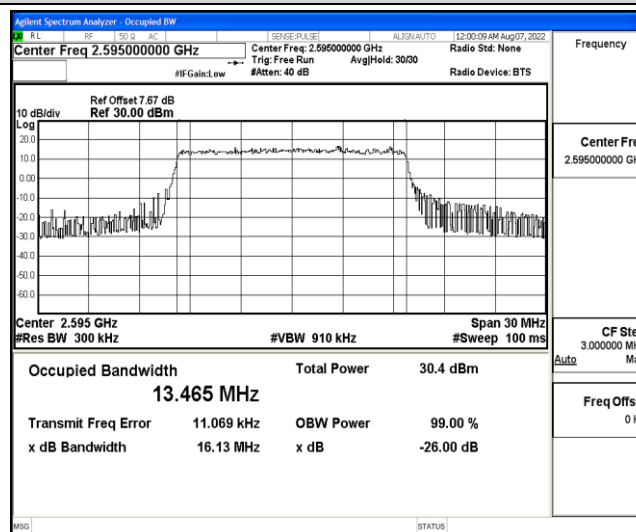




Band38-15MHz-QPSK-37825-75RB#0

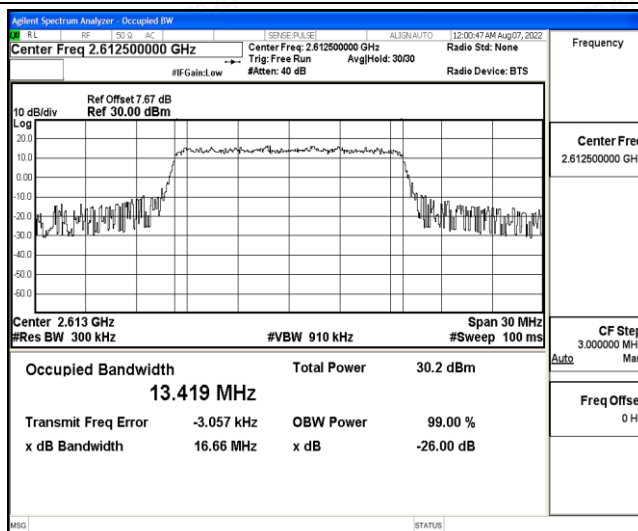


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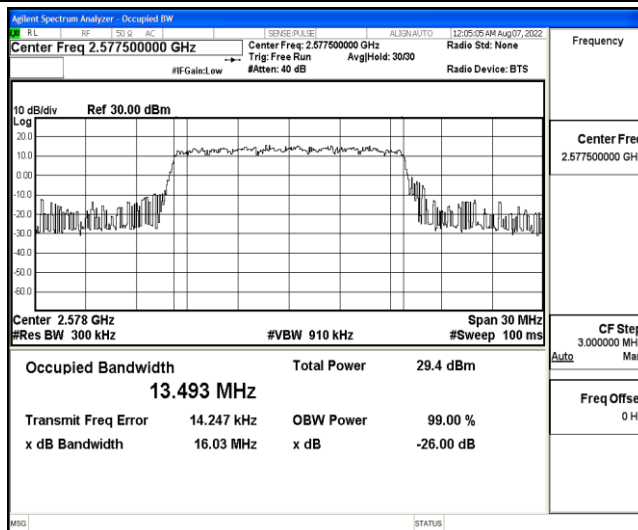


Band38-15MHz-QPSK-38175-75RB#0

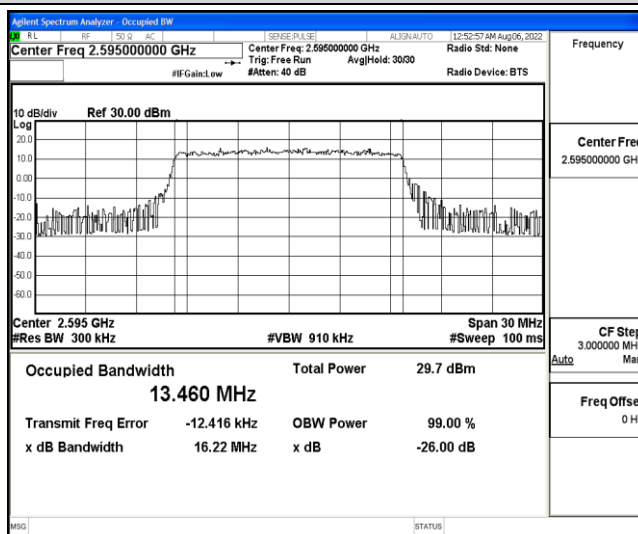




Band38-15MHz-16QAM-37825-75RB#0



Band38-15MHz-16QAM-38000-75RB#0



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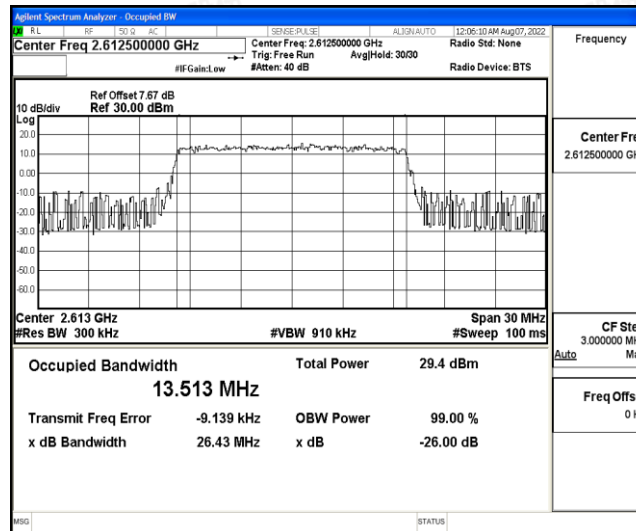


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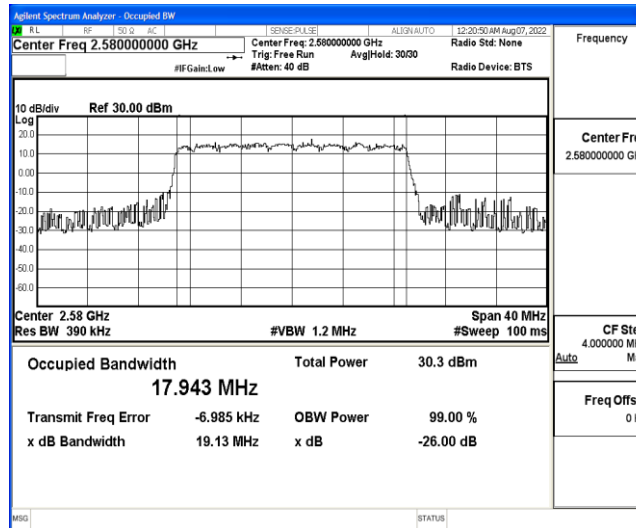
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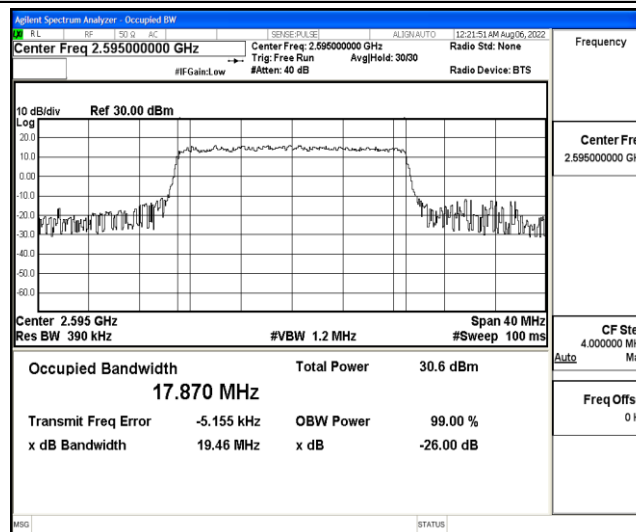
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Band38-20MHz-QPSK-37850-100RB#0

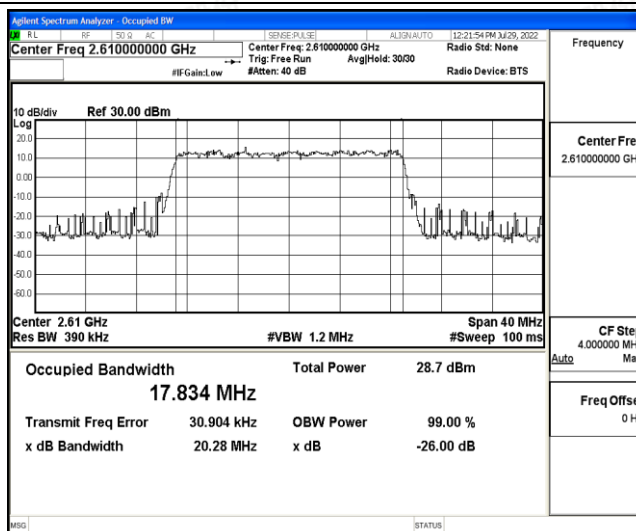


Band38-20MHz-QPSK-38000-100RB#0

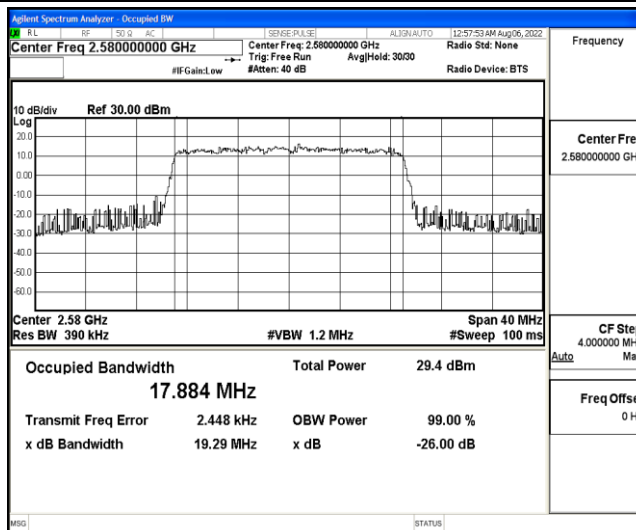


Band38-20MHz-QPSK-38150-100RB#0

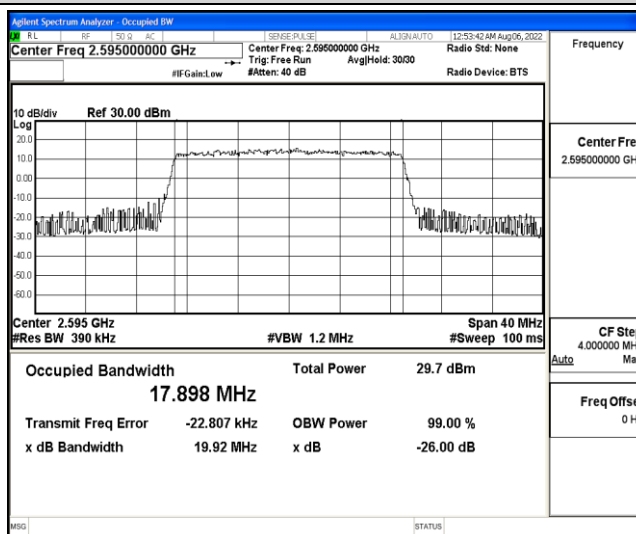




Band38-20MHz-16QAM-37850-100RB#0



Band38-20MHz-16QAM-38000-100RB#0



Band38-20MHz-16QAM-38150-100RB#0

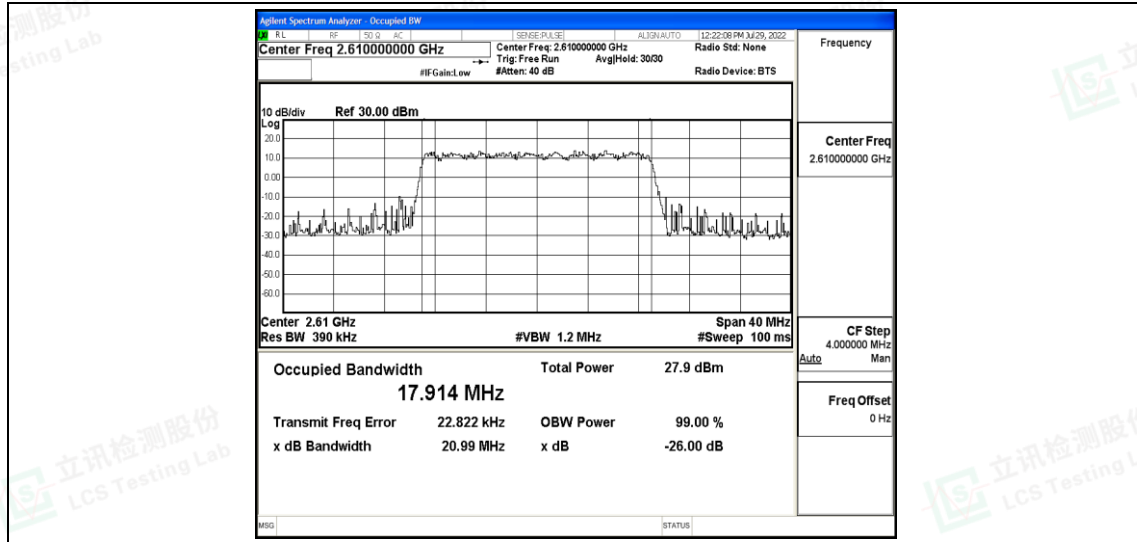


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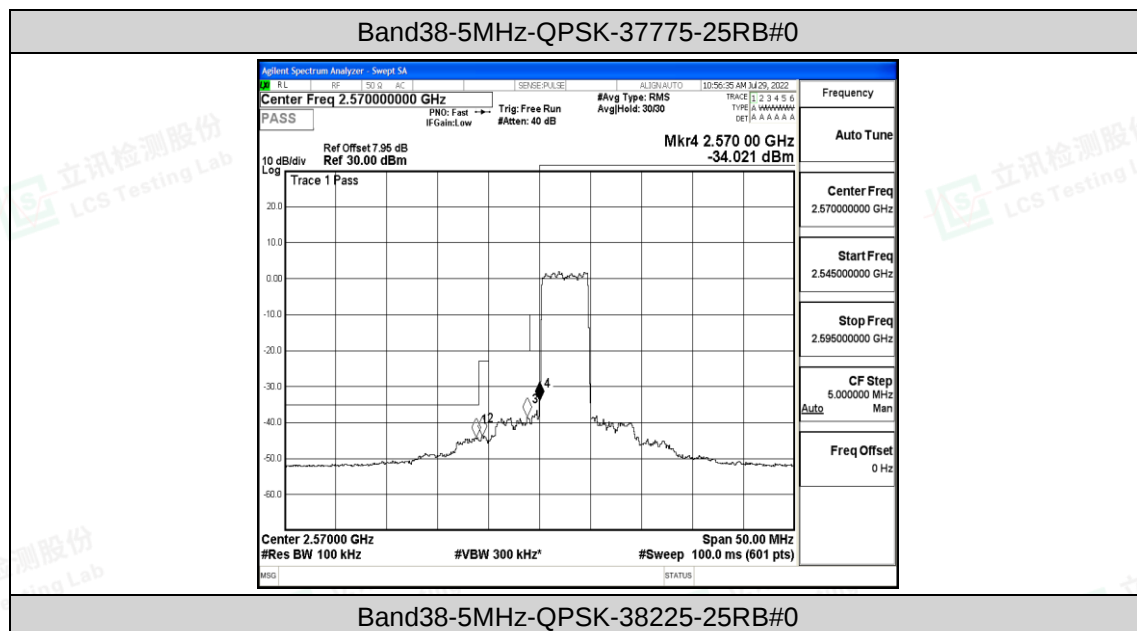


H.4 Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	-44.11,-43.68,-38.46,-34.02	PASS
Band38	5MHz	QPSK	38225	25RB#0	-34.35,-41.50,-45.69,-45.80	PASS
Band38	5MHz	16QAM	37775	25RB#0	-44.20,-43.39,-37.38,-33.81	PASS
Band38	5MHz	16QAM	38225	25RB#0	-34.99,-40.35,-45.11,-45.69	PASS
Band38	10MHz	QPSK	37800	50RB#0	-43.11,-38.44,-38.43,-35.75	PASS
Band38	10MHz	QPSK	38200	50RB#0	-38.91,-40.85,-41.75,-44.64	PASS
Band38	10MHz	16QAM	37800	50RB#0	-42.18,-38.45,-37.45,-36.13	PASS
Band38	10MHz	16QAM	38200	50RB#0	-37.21,-39.60,-41.86,-44.53	PASS
Band38	15MHz	QPSK	37825	75RB#0	-43.37,-39.64,-34.21,-33.34	PASS
Band38	15MHz	QPSK	38175	75RB#0	-32.88,-36.45,-39.86,-41.37	PASS
Band38	15MHz	16QAM	37825	75RB#0	-43.12,-38.33,-36.16,-35.00	PASS
Band38	15MHz	16QAM	38175	75RB#0	-34.54,-36.64,-38.36,-45.44	PASS
Band38	20MHz	QPSK	37850	100RB#0	-42.40,-38.18,-37.65,-36.79	PASS
Band38	20MHz	QPSK	38150	100RB#0	-39.88,-39.97,-40.82,-43.73	PASS
Band38	20MHz	16QAM	37850	100RB#0	-41.94,-37.00,-36.01,-36.14	PASS
Band38	20MHz	16QAM	38150	100RB#0	-38.92,-39.53,-40.37,-43.61	PASS

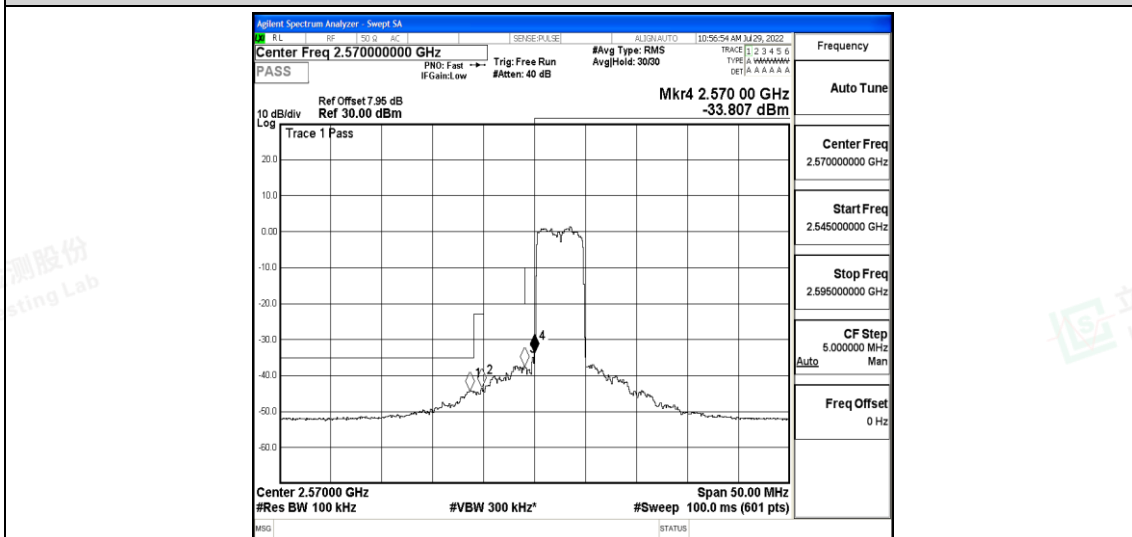
Test Graphs



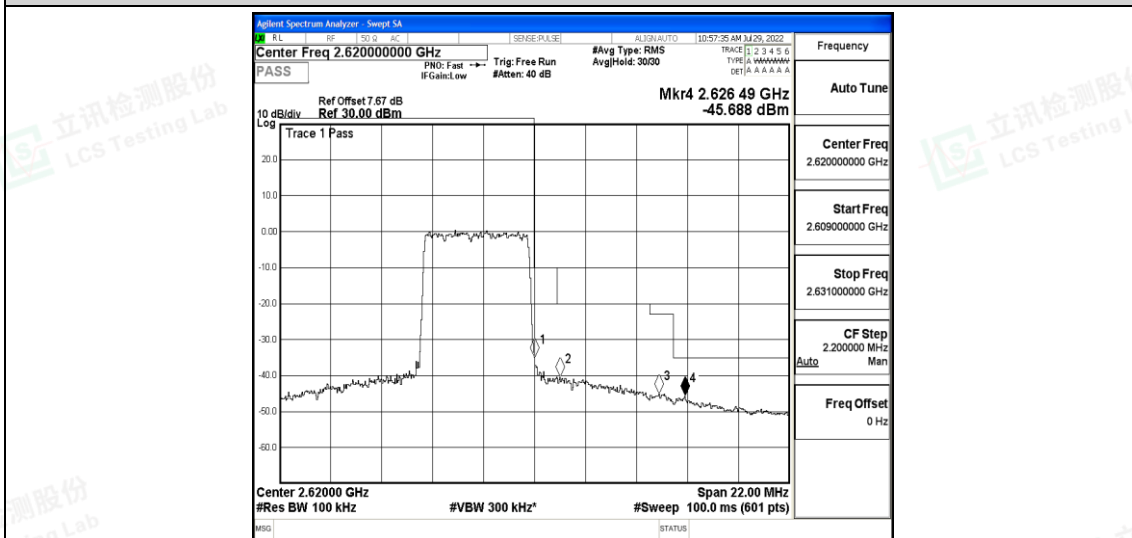
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Band38-5MHz-16QAM-37775-25RB#0



Band38-5MHz-16QAM-38225-25RB#0



Band38-10MHz-QPSK-37800-50RB#0

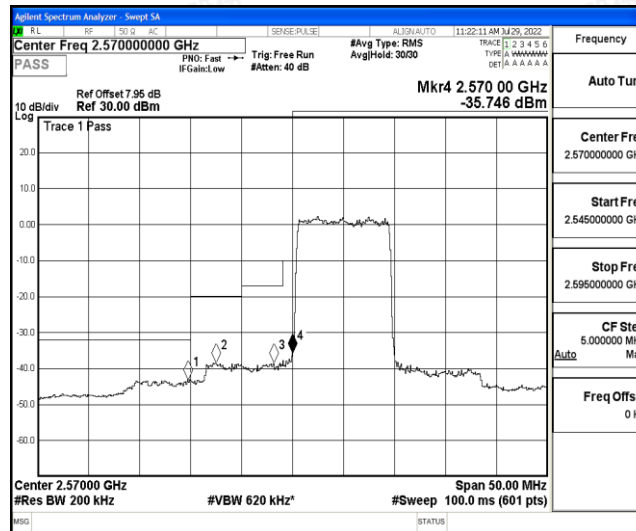


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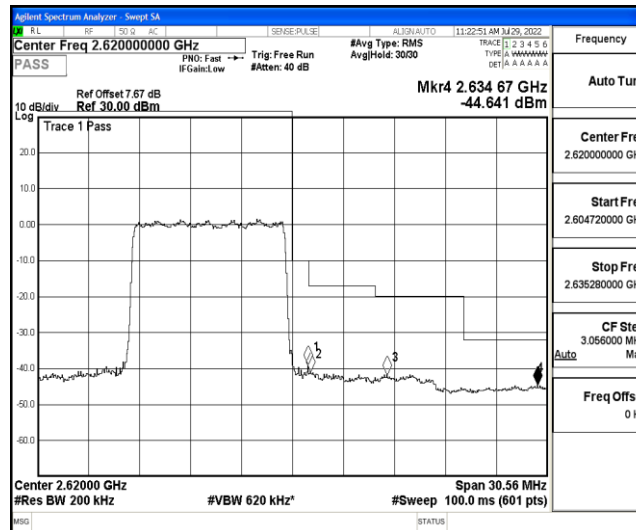
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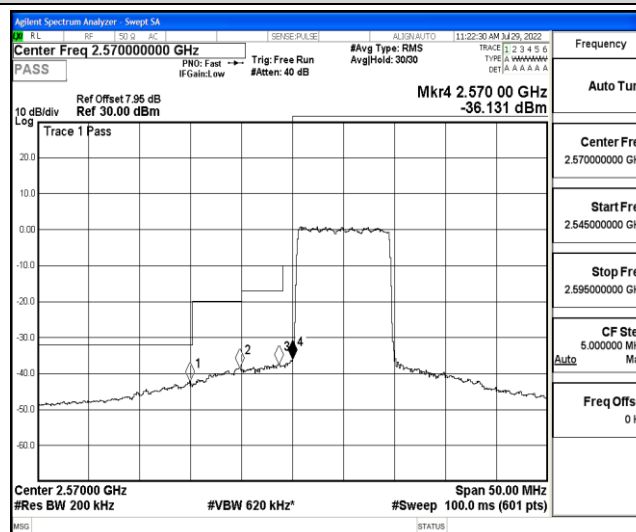
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Band38-10MHz-QPSK-38200-50RB#0

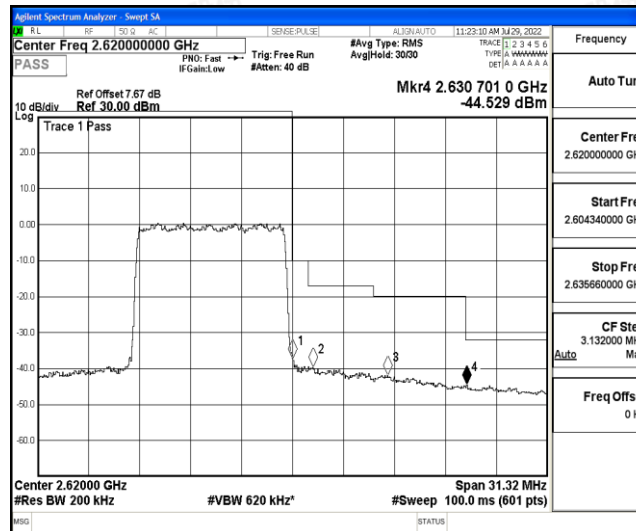


Band38-10MHz-16QAM-37800-50RB#0



Band38-10MHz-16QAM-38200-50RB#0

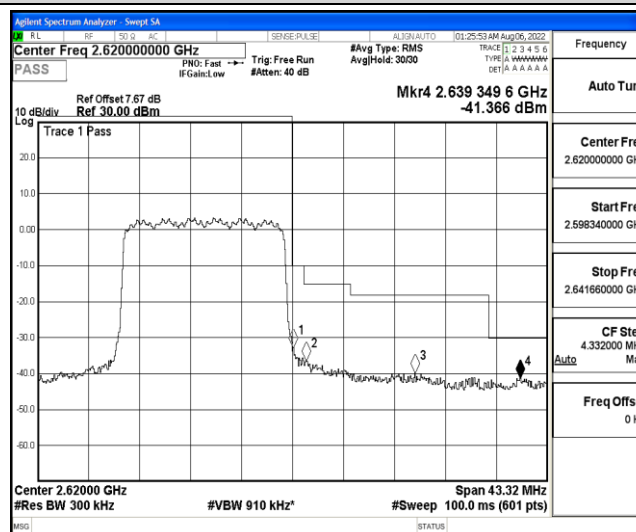




Band38-15MHz-QPSK-37825-75RB#0



Band38-15MHz-QPSK-38175-75RB#0



Band38-15MHz-16QAM-37825-75RB#0

