



Appendix K: Test Data for E-UTRA Band 41

Product Name: Smart POS

Test Model: WIZARPOS Q3 min

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng





K.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	21.92	PASS
Band41	5MHz	16QAM	39675	1RB#0	21.85	PASS
Band41	5MHz	QPSK	39675	1RB#12	21.93	PASS
Band41	5MHz	16QAM	39675	1RB#12	22.32	PASS
Band41	5MHz	QPSK	39675	1RB#24	21.98	PASS
Band41	5MHz	16QAM	39675	1RB#24	21.65	PASS
Band41	5MHz	QPSK	39675	12RB#0	21.21	PASS
Band41	5MHz	16QAM	39675	12RB#0	20.32	PASS
Band41	5MHz	QPSK	39675	12RB#6	21.08	PASS
Band41	5MHz	16QAM	39675	12RB#6	20.33	PASS
Band41	5MHz	QPSK	39675	12RB#13	21.16	PASS
Band41	5MHz	16QAM	39675	12RB#13	20.05	PASS
Band41	5MHz	QPSK	39675	25RB#0	20.82	PASS
Band41	5MHz	16QAM	39675	25RB#0	20.07	PASS
Band41	5MHz	QPSK	40620	1RB#0	21.98	PASS
Band41	5MHz	16QAM	40620	1RB#0	21.55	PASS
Band41	5MHz	QPSK	40620	1RB#12	22.10	PASS
Band41	5MHz	16QAM	40620	1RB#12	21.74	PASS
Band41	5MHz	QPSK	40620	1RB#24	22.05	PASS
Band41	5MHz	16QAM	40620	1RB#24	21.50	PASS
Band41	5MHz	QPSK	40620	12RB#0	21.08	PASS
Band41	5MHz	16QAM	40620	12RB#0	20.26	PASS
Band41	5MHz	QPSK	40620	12RB#6	21.09	PASS
Band41	5MHz	16QAM	40620	12RB#6	20.45	PASS
Band41	5MHz	QPSK	40620	12RB#13	21.08	PASS
Band41	5MHz	16QAM	40620	12RB#13	20.52	PASS
Band41	5MHz	QPSK	40620	25RB#0	21.35	PASS
Band41	5MHz	16QAM	40620	25RB#0	20.66	PASS
Band41	5MHz	QPSK	41565	1RB#0	21.91	PASS
Band41	5MHz	16QAM	41565	1RB#0	21.48	PASS
Band41	5MHz	QPSK	41565	1RB#12	21.91	PASS
Band41	5MHz	16QAM	41565	1RB#12	21.66	PASS
Band41	5MHz	QPSK	41565	1RB#24	21.92	PASS
Band41	5MHz	16QAM	41565	1RB#24	21.33	PASS
Band41	5MHz	QPSK	41565	12RB#0	20.95	PASS



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Scan code to check authenticity



Band41	5MHz	16QAM	41565	12RB#0	20.16	PASS
Band41	5MHz	QPSK	41565	12RB#6	20.96	PASS
Band41	5MHz	16QAM	41565	12RB#6	20.17	PASS
Band41	5MHz	QPSK	41565	12RB#13	20.90	PASS
Band41	5MHz	16QAM	41565	12RB#13	20.13	PASS
Band41	5MHz	QPSK	41565	25RB#0	20.96	PASS
Band41	5MHz	16QAM	41565	25RB#0	20.22	PASS
Band41	10MHz	QPSK	39700	1RB#0	22.67	PASS
Band41	10MHz	16QAM	39700	1RB#0	22.45	PASS
Band41	10MHz	QPSK	39700	1RB#24	22.73	PASS
Band41	10MHz	16QAM	39700	1RB#24	22.43	PASS
Band41	10MHz	QPSK	39700	1RB#49	22.84	PASS
Band41	10MHz	16QAM	39700	1RB#49	22.52	PASS
Band41	10MHz	QPSK	39700	25RB#0	21.79	PASS
Band41	10MHz	16QAM	39700	25RB#0	20.95	PASS
Band41	10MHz	QPSK	39700	25RB#12	21.66	PASS
Band41	10MHz	16QAM	39700	25RB#12	20.95	PASS
Band41	10MHz	QPSK	39700	25RB#25	21.83	PASS
Band41	10MHz	16QAM	39700	25RB#25	20.96	PASS
Band41	10MHz	QPSK	39700	50RB#0	21.71	PASS
Band41	10MHz	16QAM	39700	50RB#0	20.99	PASS
Band41	10MHz	QPSK	40620	1RB#0	22.42	PASS
Band41	10MHz	16QAM	40620	1RB#0	22.11	PASS
Band41	10MHz	QPSK	40620	1RB#24	22.40	PASS
Band41	10MHz	16QAM	40620	1RB#24	21.91	PASS
Band41	10MHz	QPSK	40620	1RB#49	22.38	PASS
Band41	10MHz	16QAM	40620	1RB#49	22.04	PASS
Band41	10MHz	QPSK	40620	25RB#0	21.36	PASS
Band41	10MHz	16QAM	40620	25RB#0	20.50	PASS
Band41	10MHz	QPSK	40620	25RB#12	21.21	PASS
Band41	10MHz	16QAM	40620	25RB#12	20.40	PASS
Band41	10MHz	QPSK	40620	25RB#25	21.17	PASS
Band41	10MHz	16QAM	40620	25RB#25	20.40	PASS
Band41	10MHz	QPSK	40620	50RB#0	21.11	PASS
Band41	10MHz	16QAM	40620	50RB#0	20.42	PASS
Band41	10MHz	QPSK	41540	1RB#0	22.16	PASS
Band41	10MHz	16QAM	41540	1RB#0	21.76	PASS
Band41	10MHz	QPSK	41540	1RB#24	22.23	PASS
Band41	10MHz	16QAM	41540	1RB#24	21.86	PASS
Band41	10MHz	QPSK	41540	1RB#49	22.09	PASS





Band41	10MHz	16QAM	41540	1RB#49	21.75	PASS
Band41	10MHz	QPSK	41540	25RB#0	21.12	PASS
Band41	10MHz	16QAM	41540	25RB#0	20.33	PASS
Band41	10MHz	QPSK	41540	25RB#12	20.92	PASS
Band41	10MHz	16QAM	41540	25RB#12	20.21	PASS
Band41	10MHz	QPSK	41540	25RB#25	20.97	PASS
Band41	10MHz	16QAM	41540	25RB#25	20.14	PASS
Band41	10MHz	QPSK	41540	50RB#0	20.93	PASS
Band41	10MHz	16QAM	41540	50RB#0	20.20	PASS
Band41	15MHz	QPSK	39725	1RB#0	22.70	PASS
Band41	15MHz	16QAM	39725	1RB#0	22.40	PASS
Band41	15MHz	QPSK	39725	1RB#38	22.75	PASS
Band41	15MHz	16QAM	39725	1RB#38	22.43	PASS
Band41	15MHz	QPSK	39725	1RB#74	22.87	PASS
Band41	15MHz	16QAM	39725	1RB#74	22.55	PASS
Band41	15MHz	QPSK	39725	38RB#0	21.43	PASS
Band41	15MHz	16QAM	39725	38RB#0	21.43	PASS
Band41	15MHz	QPSK	39725	38RB#18	21.43	PASS
Band41	15MHz	16QAM	39725	38RB#18	21.43	PASS
Band41	15MHz	QPSK	39725	38RB#37	21.42	PASS
Band41	15MHz	16QAM	39725	38RB#37	21.42	PASS
Band41	15MHz	QPSK	39725	75RB#0	21.42	PASS
Band41	15MHz	16QAM	39725	75RB#0	20.81	PASS
Band41	15MHz	QPSK	40620	1RB#0	22.34	PASS
Band41	15MHz	16QAM	40620	1RB#0	22.03	PASS
Band41	15MHz	QPSK	40620	1RB#38	22.40	PASS
Band41	15MHz	16QAM	40620	1RB#38	22.01	PASS
Band41	15MHz	QPSK	40620	1RB#74	22.36	PASS
Band41	15MHz	16QAM	40620	1RB#74	22.06	PASS
Band41	15MHz	QPSK	40620	38RB#0	21.36	PASS
Band41	15MHz	16QAM	40620	38RB#0	21.36	PASS
Band41	15MHz	QPSK	40620	38RB#18	21.36	PASS
Band41	15MHz	16QAM	40620	38RB#18	21.36	PASS
Band41	15MHz	QPSK	40620	38RB#37	21.36	PASS
Band41	15MHz	16QAM	40620	38RB#37	21.36	PASS
Band41	15MHz	QPSK	40620	75RB#0	21.36	PASS
Band41	15MHz	16QAM	40620	75RB#0	20.51	PASS
Band41	15MHz	QPSK	41515	1RB#0	22.11	PASS
Band41	15MHz	16QAM	41515	1RB#0	21.83	PASS
Band41	15MHz	QPSK	41515	1RB#38	22.16	PASS





Band41	15MHz	16QAM	41515	1RB#38	21.82	PASS
Band41	15MHz	QPSK	41515	1RB#74	22.15	PASS
Band41	15MHz	16QAM	41515	1RB#74	21.76	PASS
Band41	15MHz	QPSK	41515	38RB#0	21.14	PASS
Band41	15MHz	16QAM	41515	38RB#0	21.15	PASS
Band41	15MHz	QPSK	41515	38RB#18	21.15	PASS
Band41	15MHz	16QAM	41515	38RB#18	21.14	PASS
Band41	15MHz	QPSK	41515	38RB#37	21.15	PASS
Band41	15MHz	16QAM	41515	38RB#37	21.15	PASS
Band41	15MHz	QPSK	41515	75RB#0	21.15	PASS
Band41	15MHz	16QAM	41515	75RB#0	20.37	PASS
Band41	20MHz	QPSK	39750	1RB#0	22.43	PASS
Band41	20MHz	16QAM	39750	1RB#0	21.79	PASS
Band41	20MHz	QPSK	39750	1RB#49	22.41	PASS
Band41	20MHz	16QAM	39750	1RB#49	21.81	PASS
Band41	20MHz	QPSK	39750	1RB#99	22.42	PASS
Band41	20MHz	16QAM	39750	1RB#99	21.83	PASS
Band41	20MHz	QPSK	39750	50RB#0	21.74	PASS
Band41	20MHz	16QAM	39750	50RB#0	21.17	PASS
Band41	20MHz	QPSK	39750	50RB#25	21.78	PASS
Band41	20MHz	16QAM	39750	50RB#25	21.12	PASS
Band41	20MHz	QPSK	39750	50RB#50	21.90	PASS
Band41	20MHz	16QAM	39750	50RB#50	21.21	PASS
Band41	20MHz	QPSK	39750	100RB#0	21.82	PASS
Band41	20MHz	16QAM	39750	100RB#0	21.06	PASS
Band41	20MHz	QPSK	40620	1RB#0	20.94	PASS
Band41	20MHz	16QAM	40620	1RB#0	20.68	PASS
Band41	20MHz	QPSK	40620	1RB#49	20.91	PASS
Band41	20MHz	16QAM	40620	1RB#49	20.67	PASS
Band41	20MHz	QPSK	40620	1RB#99	20.92	PASS
Band41	20MHz	16QAM	40620	1RB#99	20.65	PASS
Band41	20MHz	QPSK	40620	50RB#0	20.14	PASS
Band41	20MHz	16QAM	40620	50RB#0	19.45	PASS
Band41	20MHz	QPSK	40620	50RB#25	19.92	PASS
Band41	20MHz	16QAM	40620	50RB#25	19.45	PASS
Band41	20MHz	QPSK	40620	50RB#50	20.00	PASS
Band41	20MHz	16QAM	40620	50RB#50	19.34	PASS
Band41	20MHz	QPSK	40620	100RB#0	19.99	PASS
Band41	20MHz	16QAM	40620	100RB#0	19.25	PASS
Band41	20MHz	QPSK	41490	1RB#0	21.88	PASS





Band41	20MHz	16QAM	41490	1RB#0	21.83	PASS
Band41	20MHz	QPSK	41490	1RB#49	21.92	PASS
Band41	20MHz	16QAM	41490	1RB#49	21.91	PASS
Band41	20MHz	QPSK	41490	1RB#99	21.83	PASS
Band41	20MHz	16QAM	41490	1RB#99	21.82	PASS
Band41	20MHz	QPSK	41490	50RB#0	21.16	PASS
Band41	20MHz	16QAM	41490	50RB#0	20.32	PASS
Band41	20MHz	QPSK	41490	50RB#25	21.00	PASS
Band41	20MHz	16QAM	41490	50RB#25	20.32	PASS
Band41	20MHz	QPSK	41490	50RB#50	20.88	PASS
Band41	20MHz	16QAM	41490	50RB#50	20.35	PASS
Band41	20MHz	QPSK	41490	100RB#0	20.86	PASS
Band41	20MHz	16QAM	41490	100RB#0	20.21	PASS





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

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	8.27	13	PASS
Band41	5MHz	16QAM	39675	1RB#0	8.48	13	PASS
Band41	5MHz	QPSK	39675	25RB#0	8.91	13	PASS
Band41	5MHz	16QAM	39675	25RB#0	9.52	13	PASS
Band41	5MHz	QPSK	40620	1RB#0	8.55	13	PASS
Band41	5MHz	16QAM	40620	1RB#0	9.08	13	PASS
Band41	5MHz	QPSK	40620	25RB#0	8.98	13	PASS
Band41	5MHz	16QAM	40620	25RB#0	9.75	13	PASS
Band41	5MHz	QPSK	41565	1RB#0	8.35	13	PASS
Band41	5MHz	16QAM	41565	1RB#0	8.35	13	PASS
Band41	5MHz	QPSK	41565	25RB#0	9.10	13	PASS
Band41	5MHz	16QAM	41565	25RB#0	9.74	13	PASS
Band41	10MHz	QPSK	39700	1RB#0	7.97	13	PASS
Band41	10MHz	16QAM	39700	1RB#0	8.46	13	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.93	13	PASS
Band41	10MHz	16QAM	39700	50RB#0	9.59	13	PASS
Band41	10MHz	QPSK	40620	1RB#0	8.41	13	PASS
Band41	10MHz	16QAM	40620	1RB#0	8.91	13	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.99	13	PASS
Band41	10MHz	16QAM	40620	50RB#0	9.70	13	PASS
Band41	10MHz	QPSK	41540	1RB#0	8.30	13	PASS
Band41	10MHz	16QAM	41540	1RB#0	8.99	13	PASS
Band41	10MHz	QPSK	41540	50RB#0	9.05	13	PASS
Band41	10MHz	16QAM	41540	50RB#0	9.63	13	PASS
Band41	15MHz	QPSK	39725	1RB#0	8.26	13	PASS
Band41	15MHz	16QAM	39725	1RB#0	8.18	13	PASS
Band41	15MHz	QPSK	39725	75RB#0	9.17	13	PASS
Band41	15MHz	16QAM	39725	75RB#0	10.11	13	PASS
Band41	15MHz	QPSK	40620	1RB#0	8.50	13	PASS
Band41	15MHz	16QAM	40620	1RB#0	9.40	13	PASS
Band41	15MHz	QPSK	40620	75RB#0	9.66	13	PASS
Band41	15MHz	16QAM	40620	75RB#0	9.76	13	PASS
Band41	15MHz	QPSK	41515	1RB#0	8.38	13	PASS
Band41	15MHz	16QAM	41515	1RB#0	8.64	13	PASS
Band41	15MHz	QPSK	41515	75RB#0	9.14	13	PASS



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Scan code to check authenticity

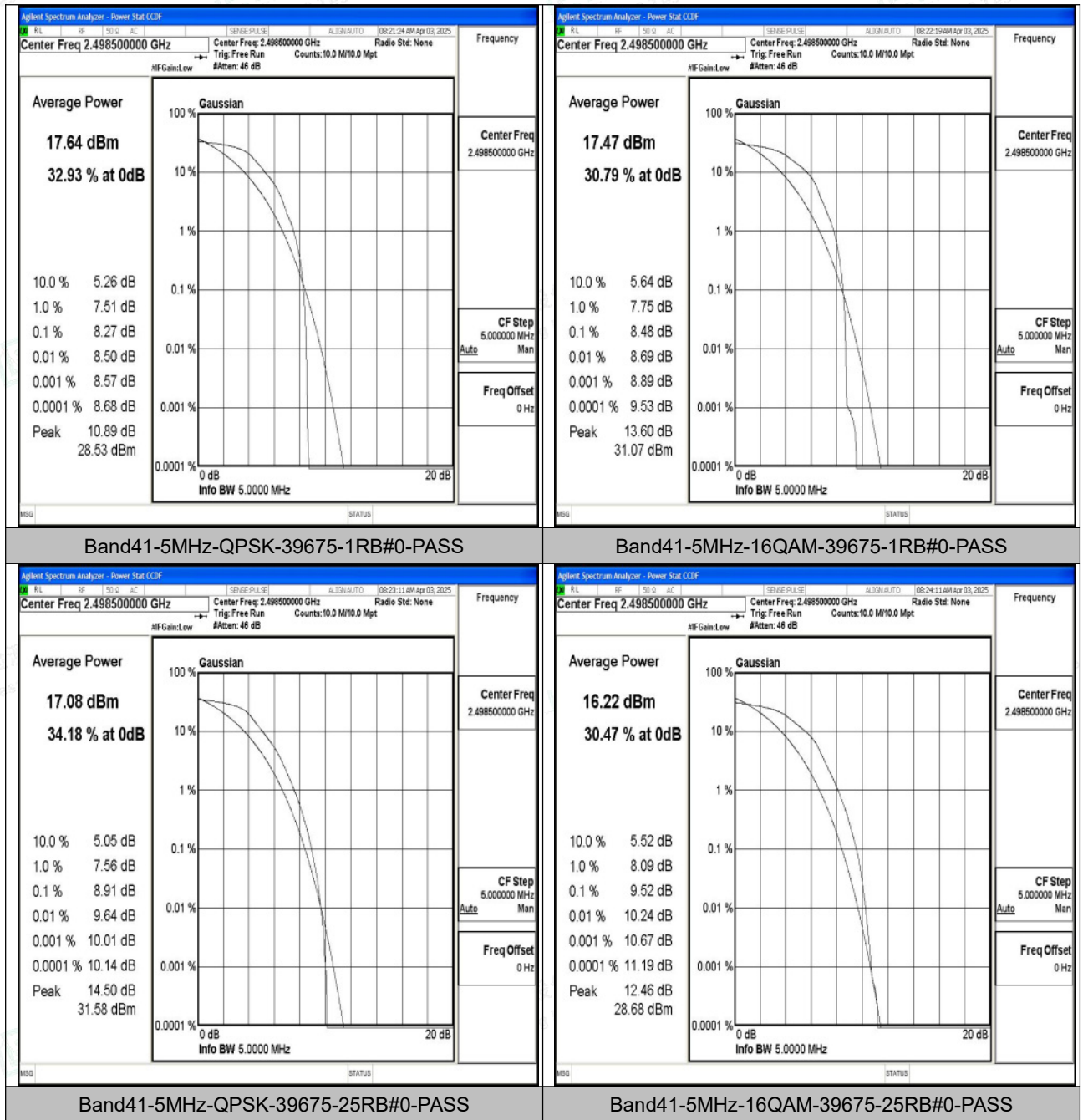


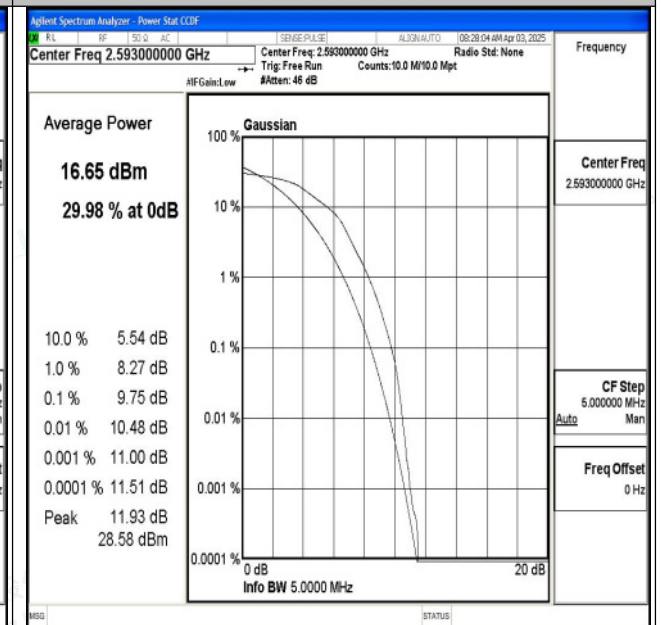
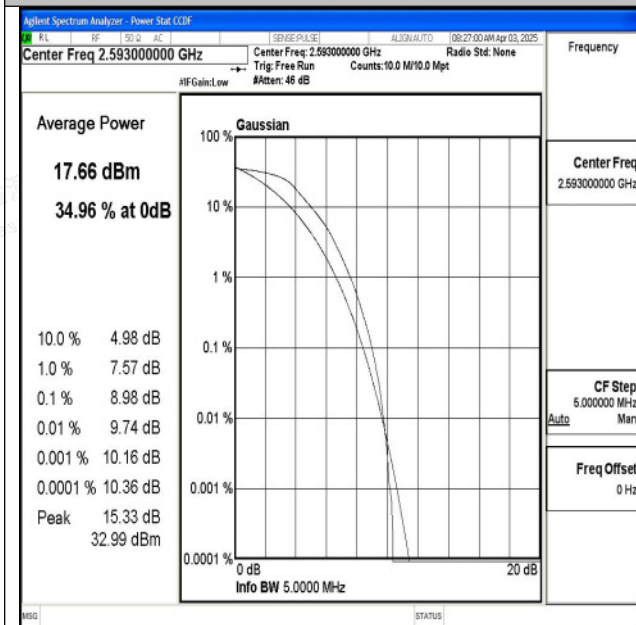
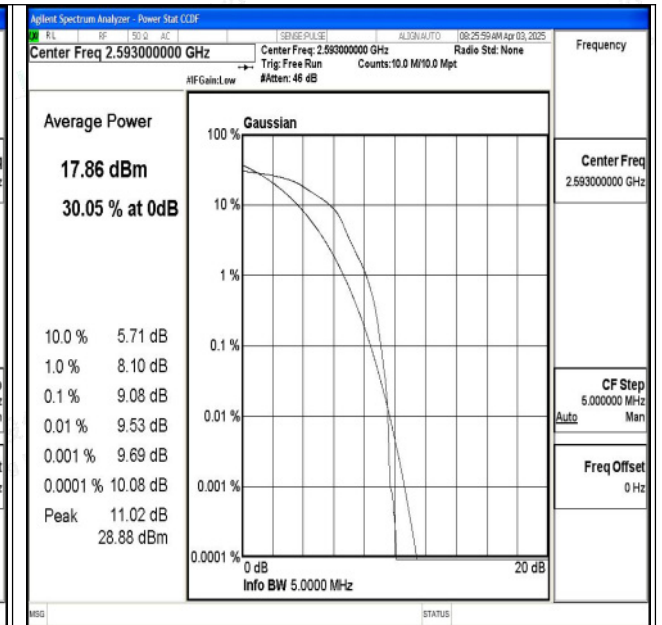
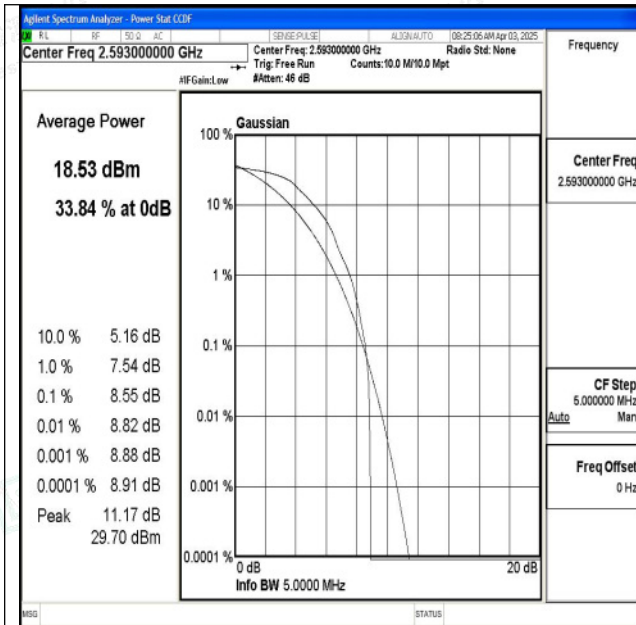
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Band41	20MHz	QPSK	39750	1RB#0	7.87	13	PASS
Band41	20MHz	16QAM	39750	1RB#0	8.22	13	PASS
Band41	20MHz	QPSK	39750	100RB#0	9.28	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	9.35	13	PASS
Band41	20MHz	QPSK	40620	1RB#0	8.31	13	PASS
Band41	20MHz	16QAM	40620	1RB#0	8.67	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	9.13	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	9.59	13	PASS
Band41	20MHz	QPSK	41490	1RB#0	8.16	13	PASS
Band41	20MHz	16QAM	41490	1RB#0	8.23	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	9.17	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	9.65	13	PASS

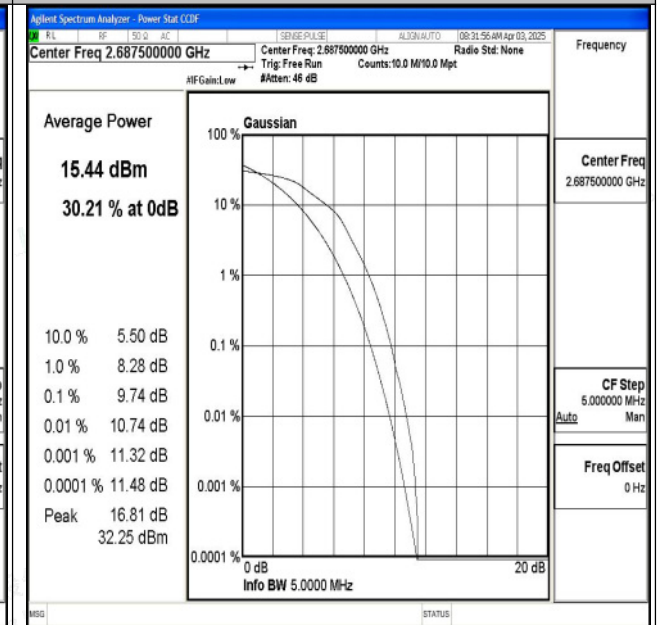
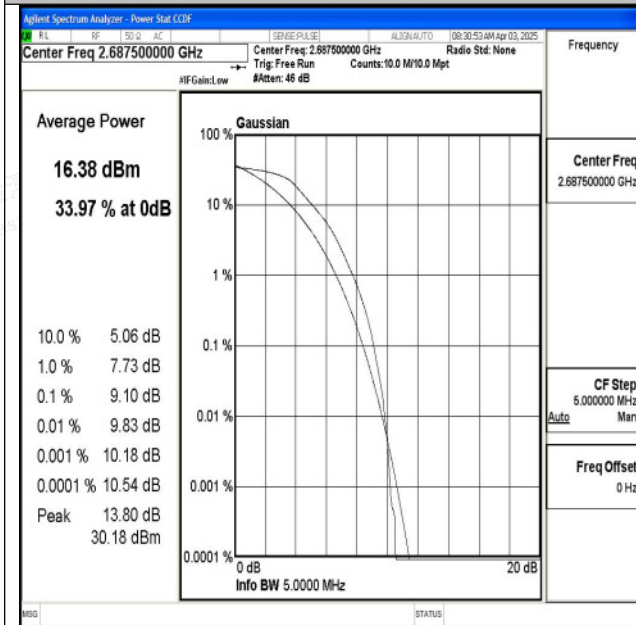
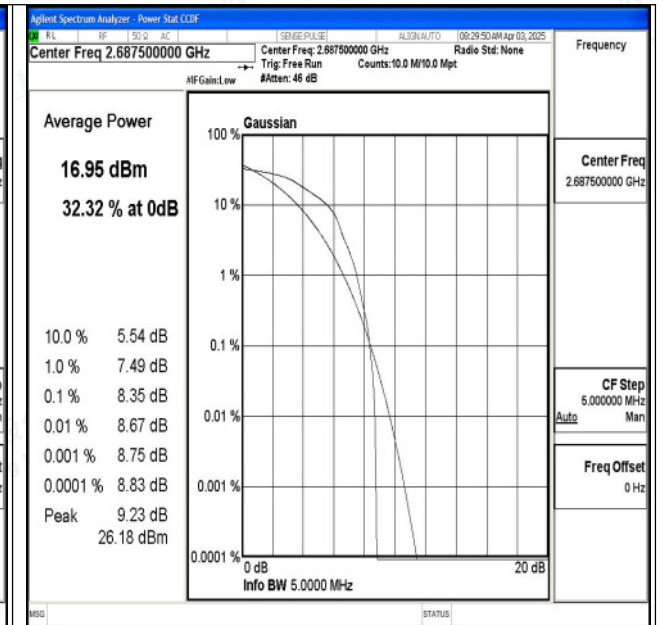
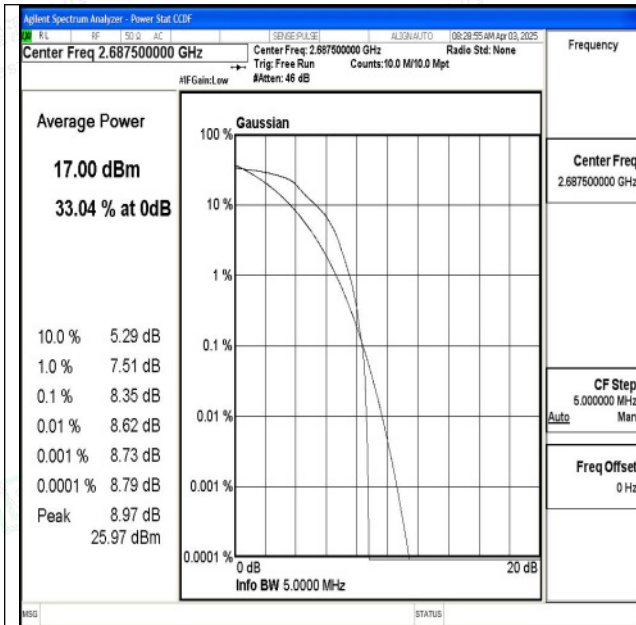


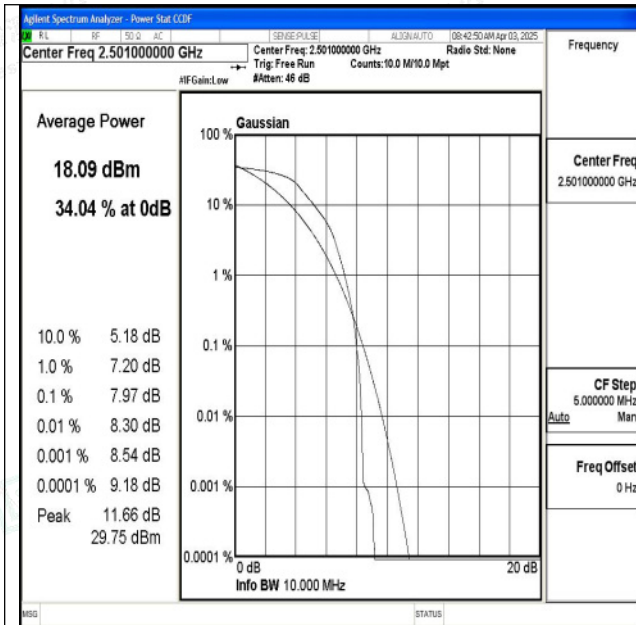


Test Graphs

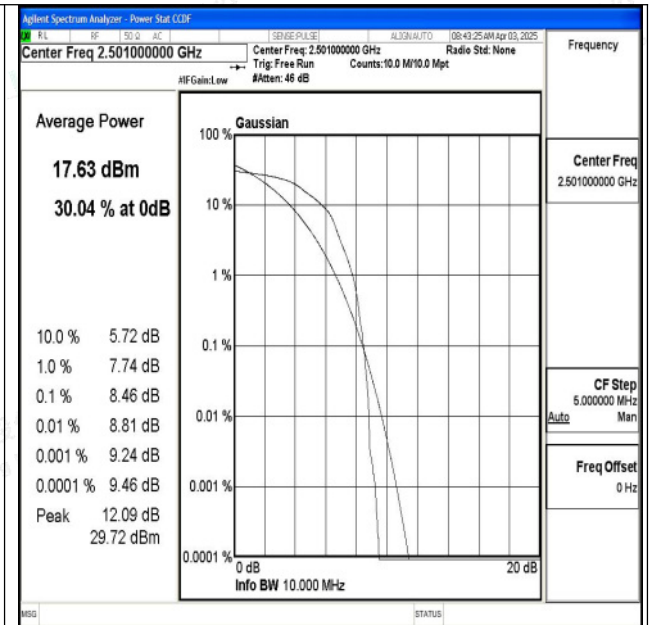




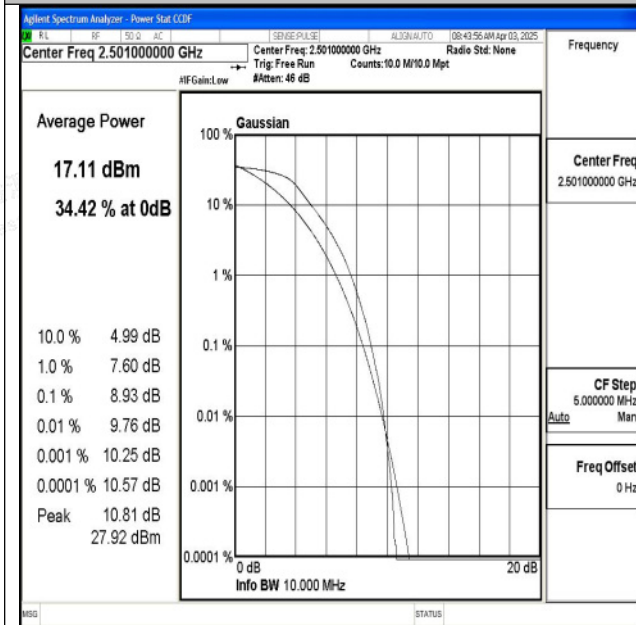




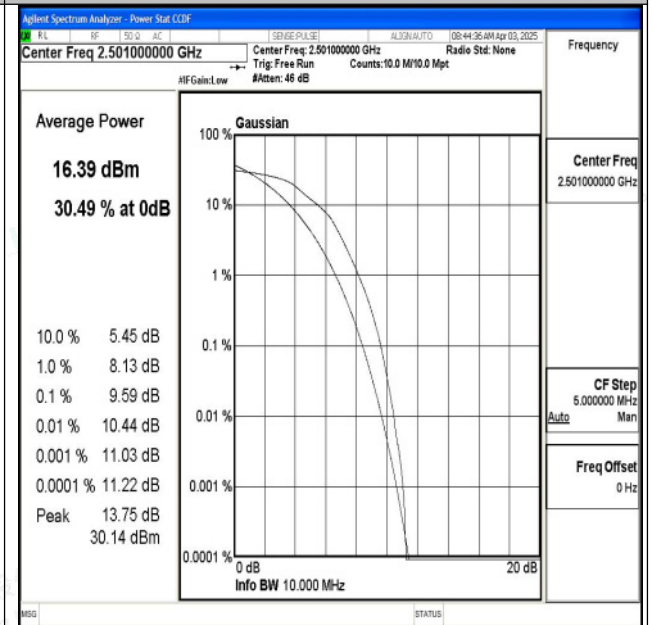
Band41-10MHz-QPSK-39700-1RB#0-PASS



Band41-10MHz-16QAM-39700-1RB#0-PASS

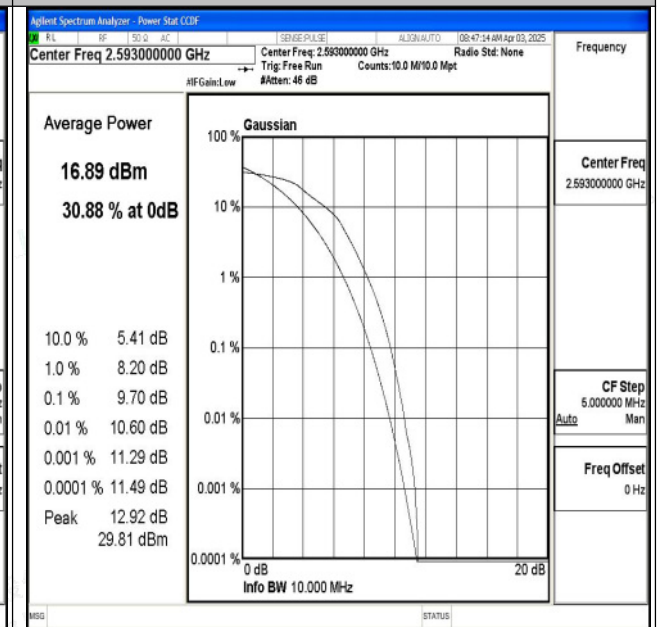
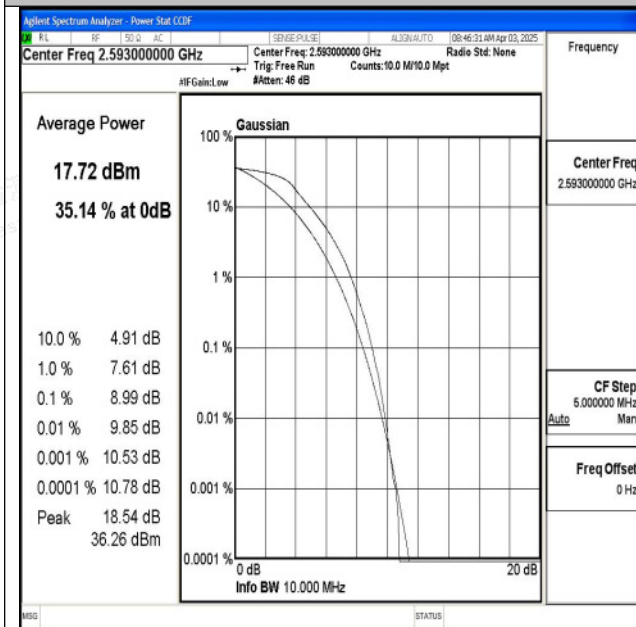
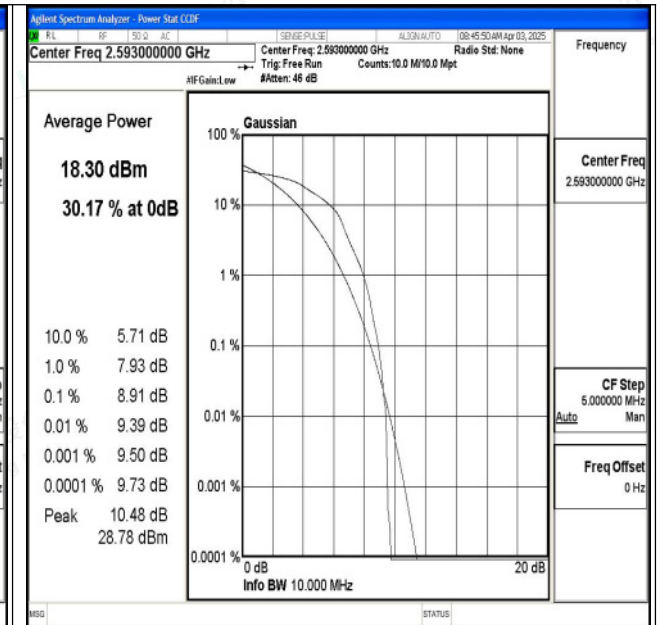
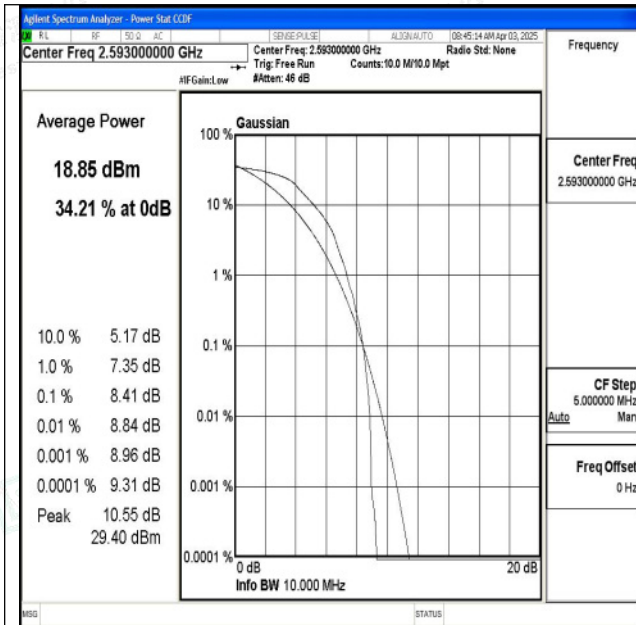


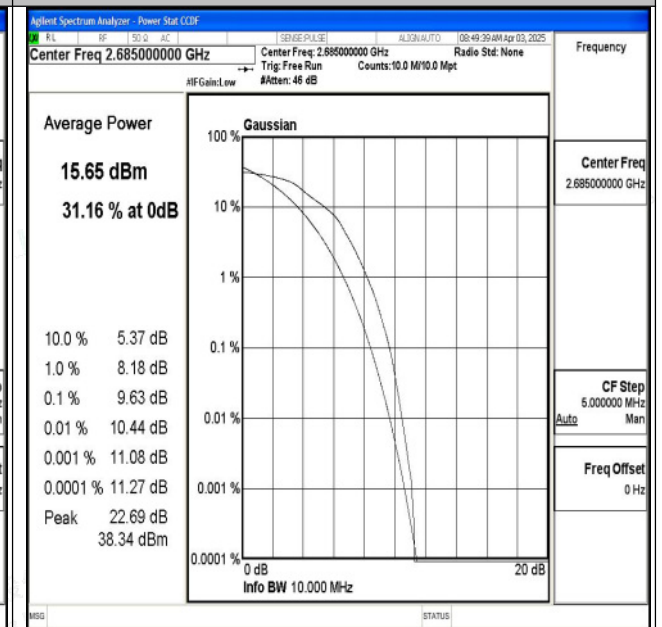
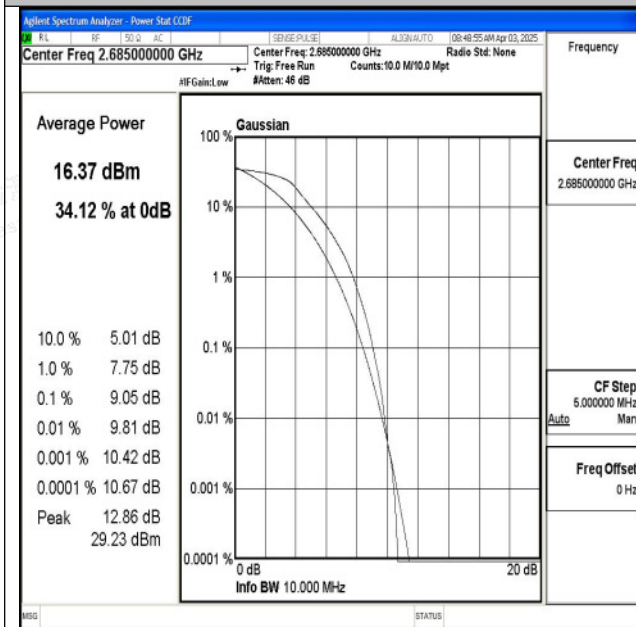
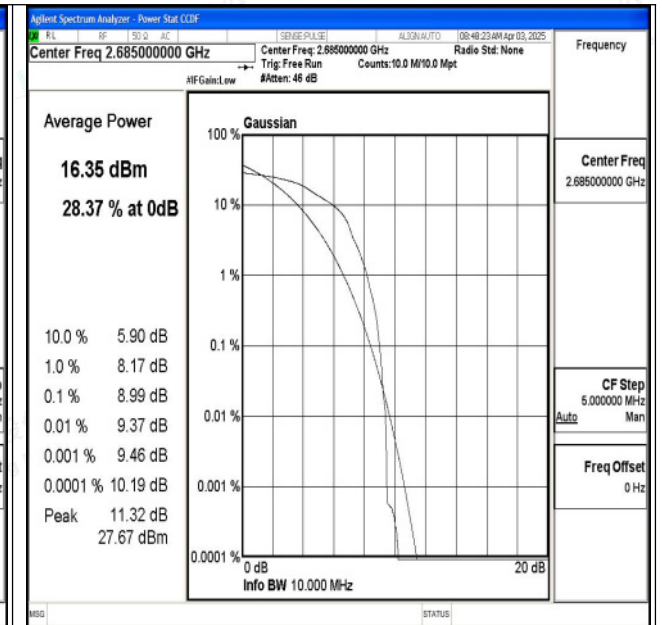
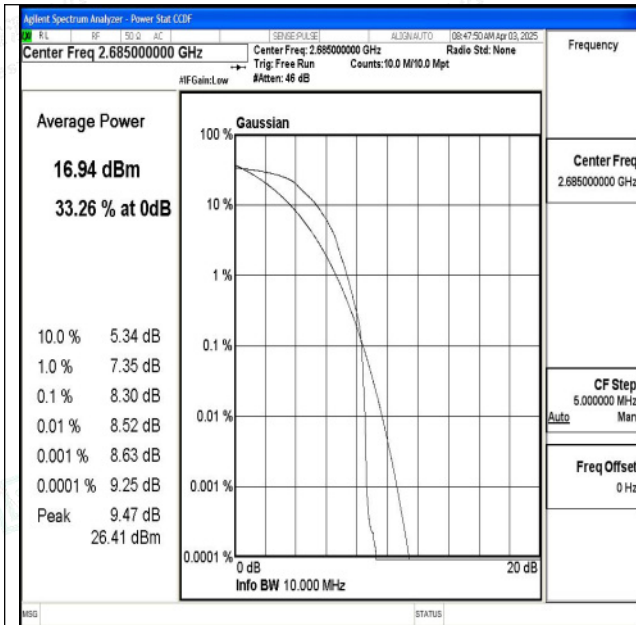
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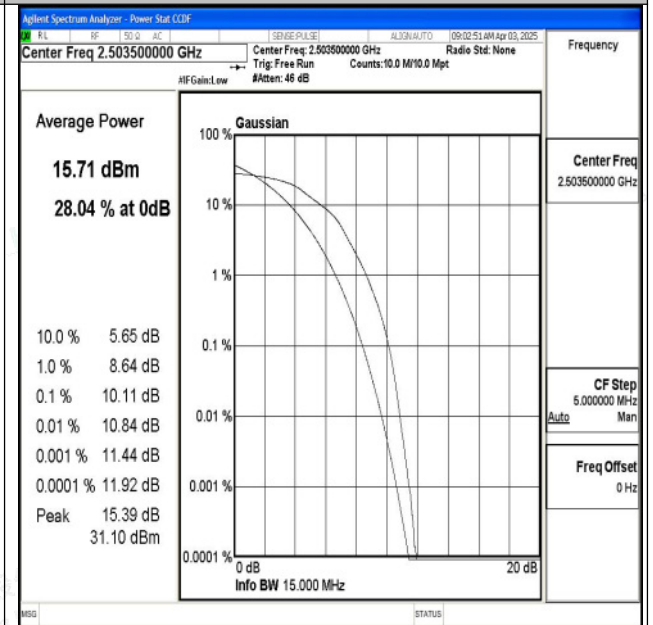
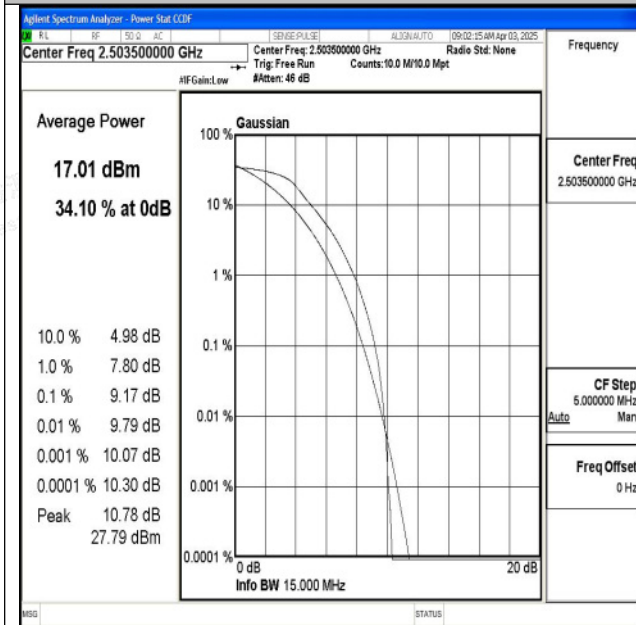
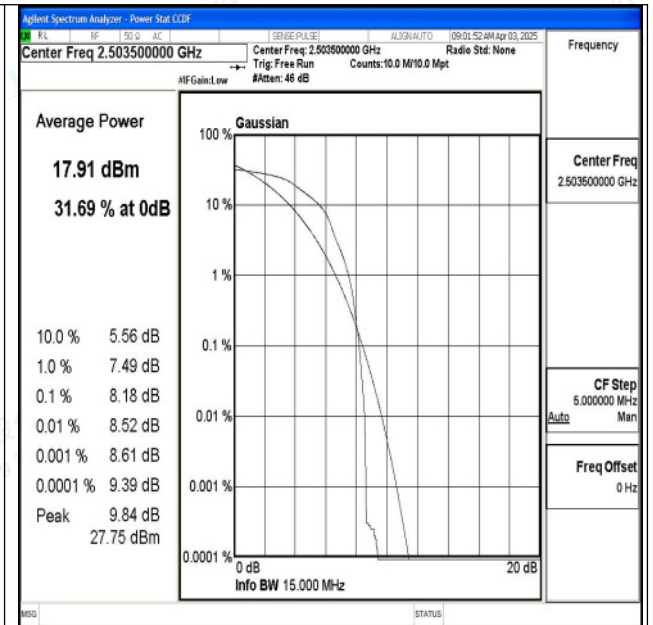
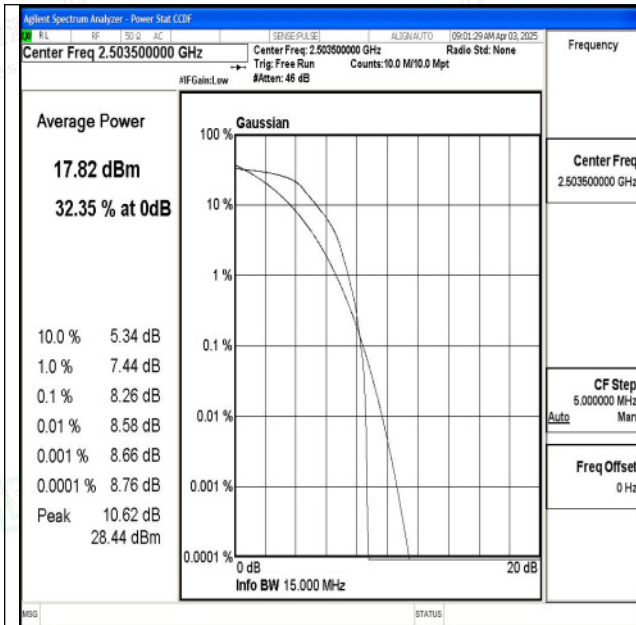


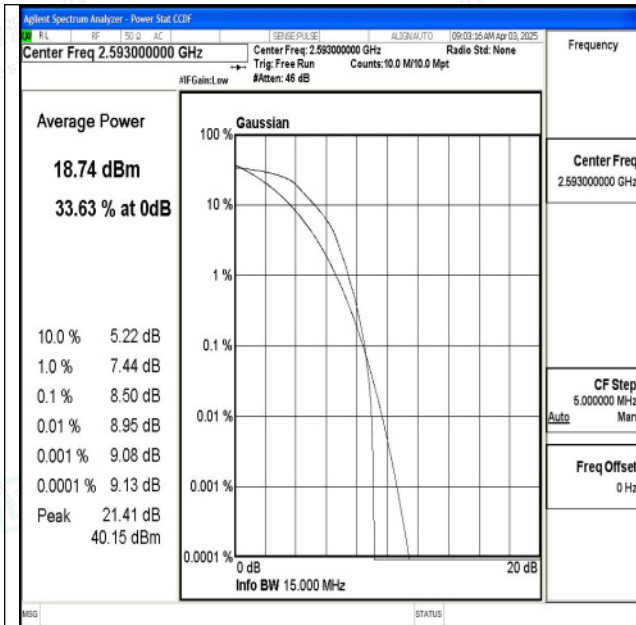
Band41-10MHz-16QAM-39700-50RB#0-PASS



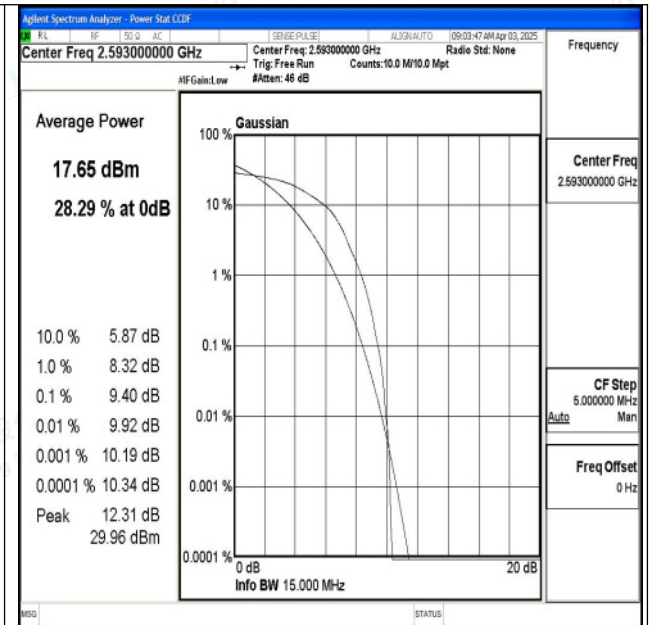




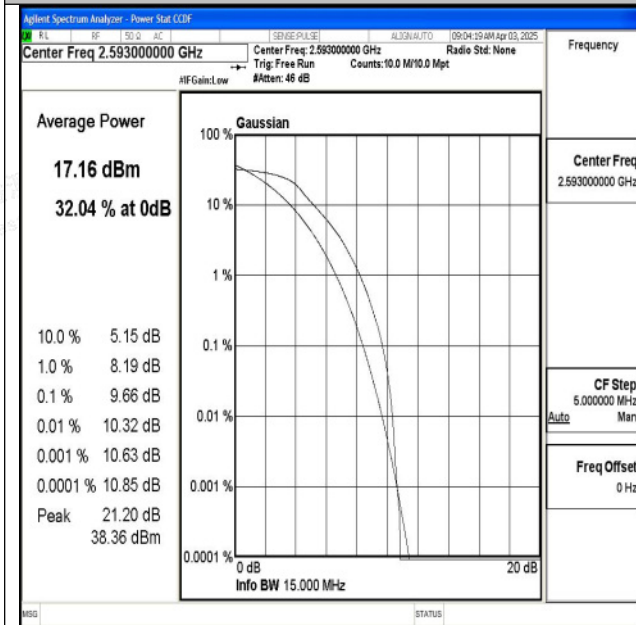




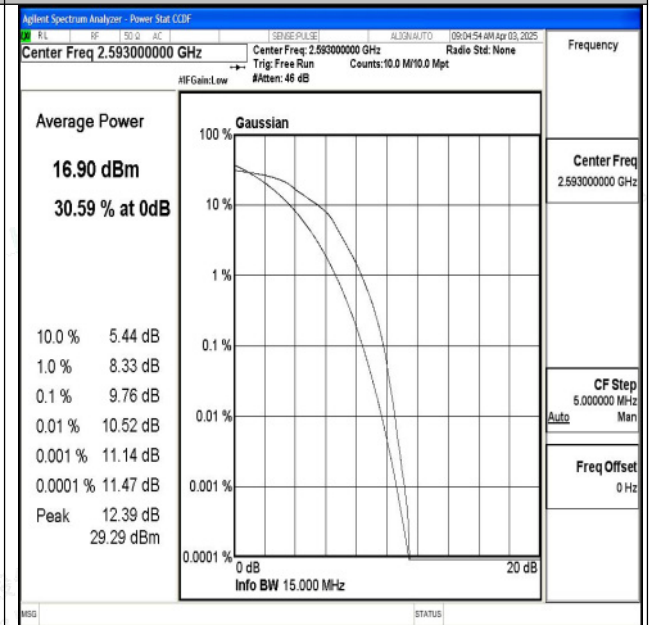
Band41-15MHz-QPSK-40620-1RB#0-PASS



Band41-15MHz-16QAM-40620-1RB#0-PASS

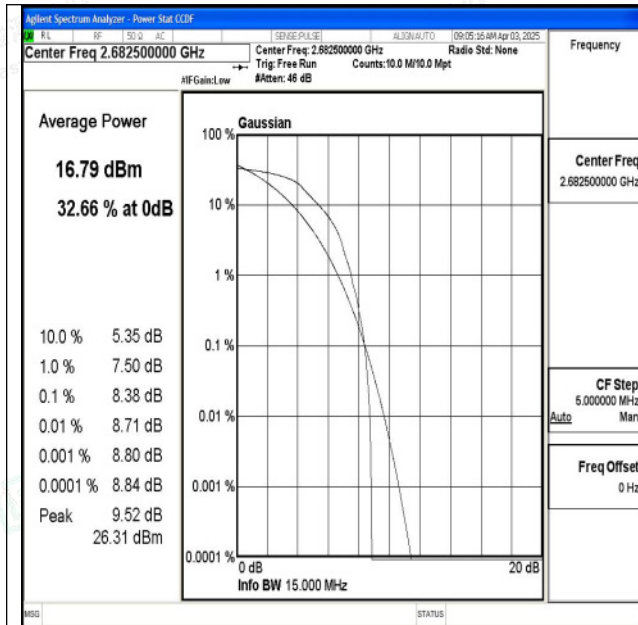


Band41-15MHz-QPSK-40620-75RB#0-PASS

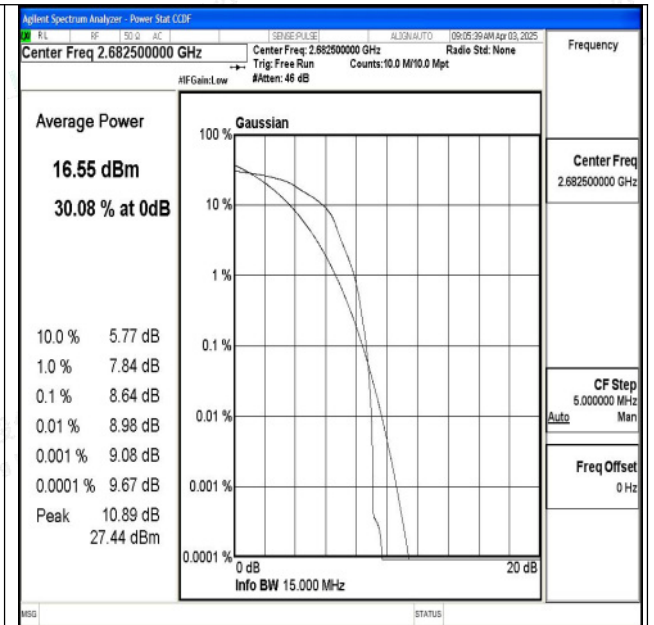


Band41-15MHz-16QAM-40620-75RB#0-PASS

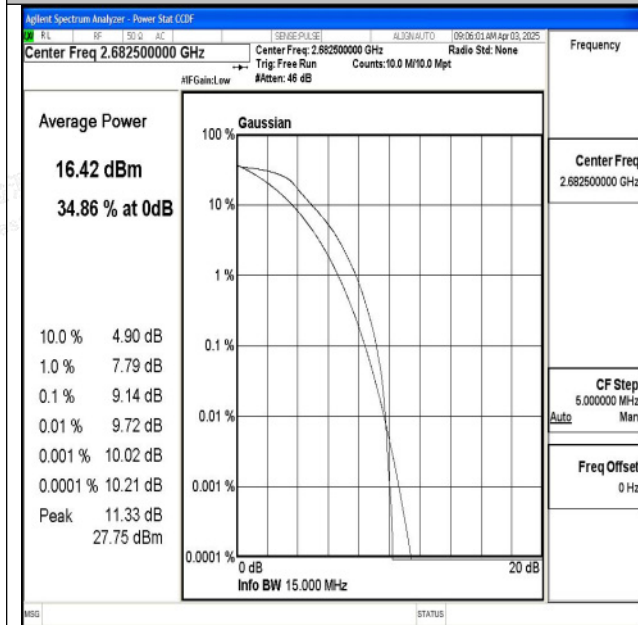




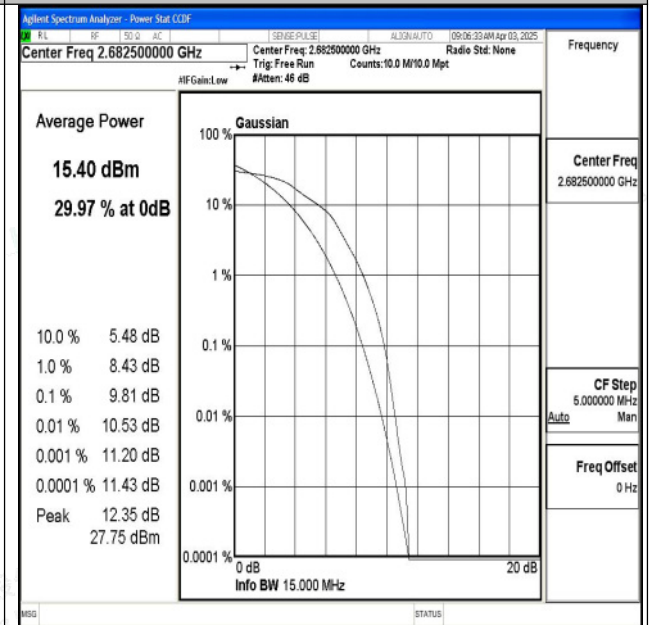
Band41-15MHz-QPSK-41515-1RB#0-PASS



Band41-15MHz-16QAM-41515-1RB#0-PASS

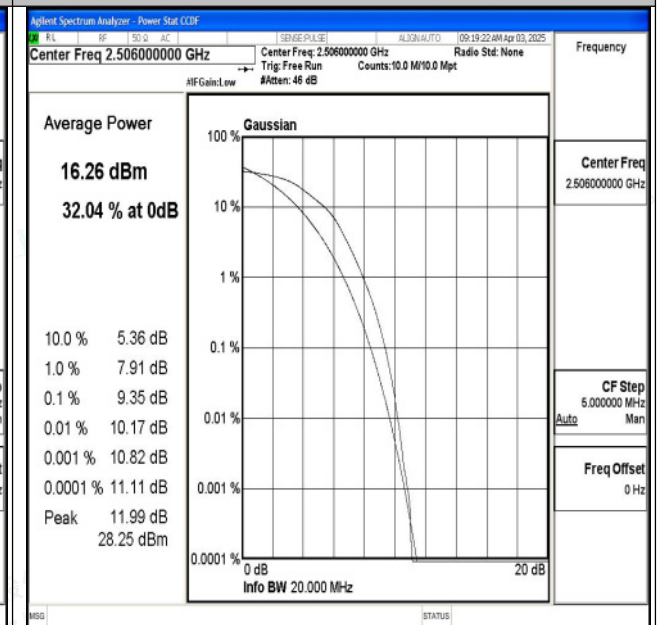
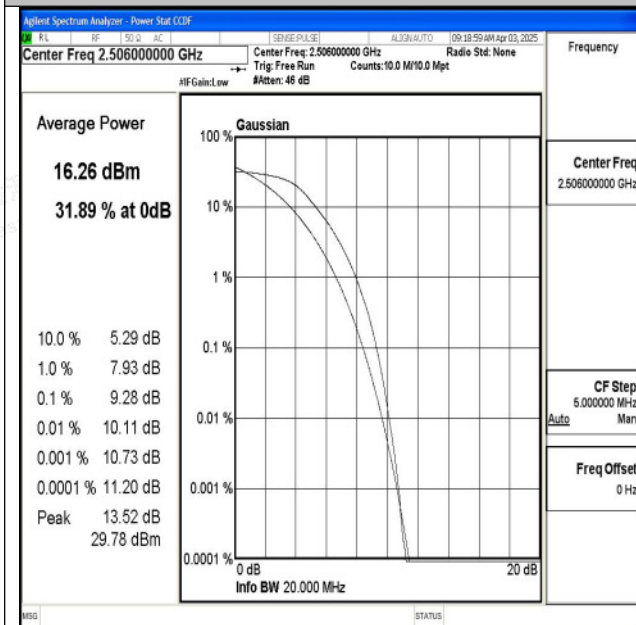
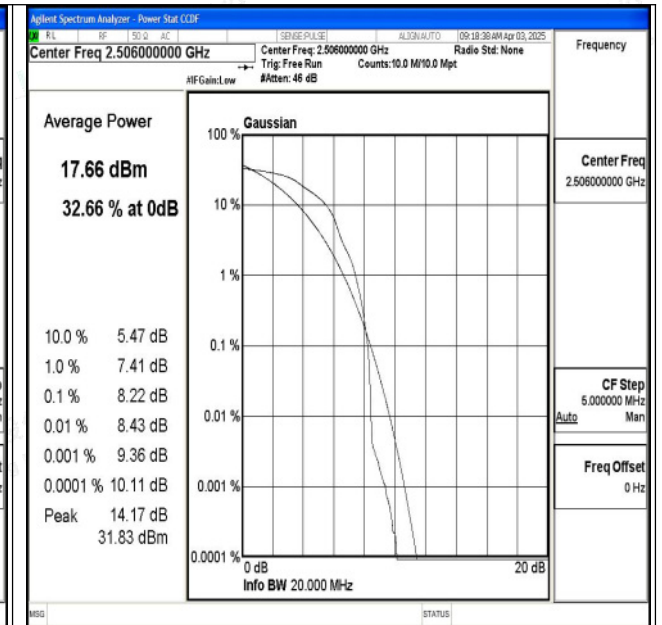
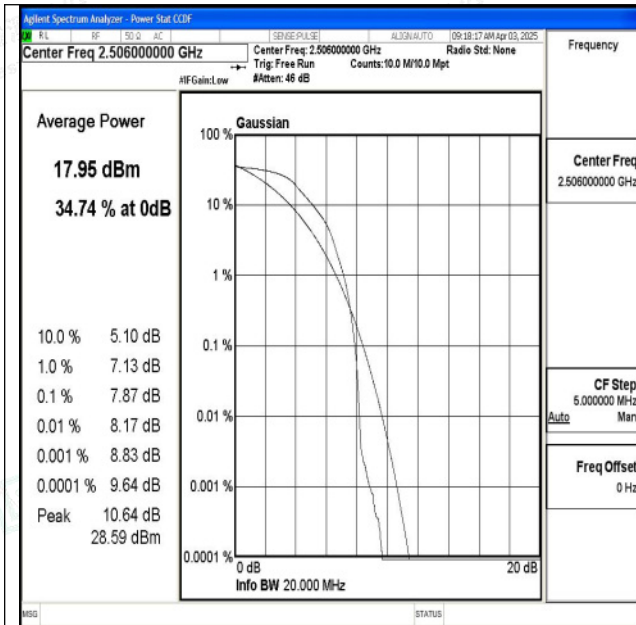


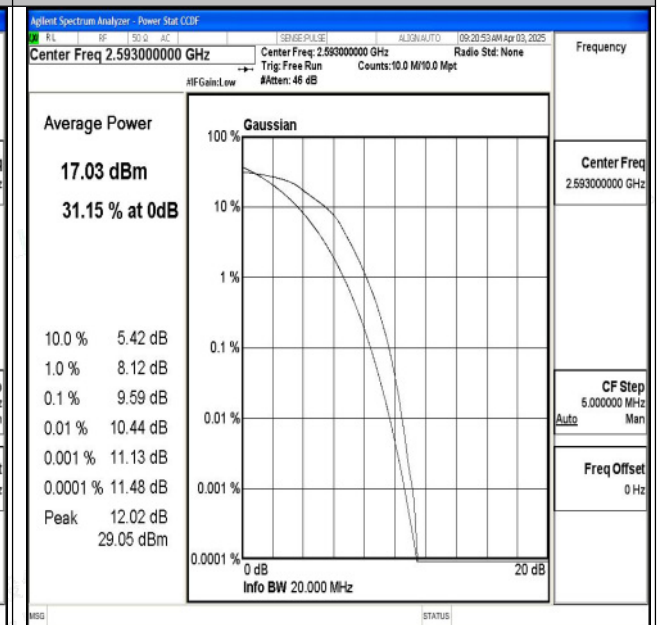
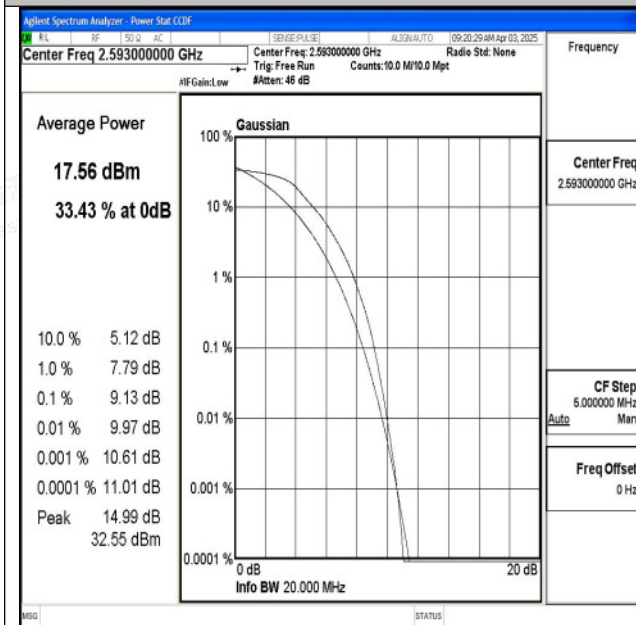
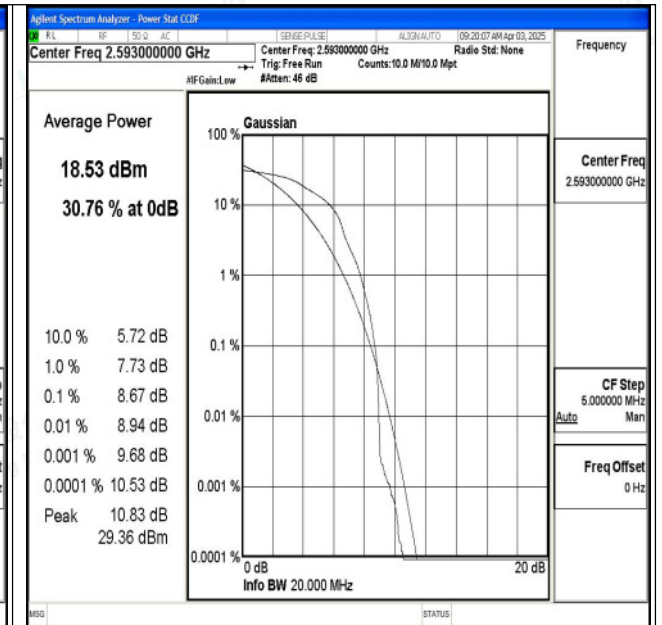
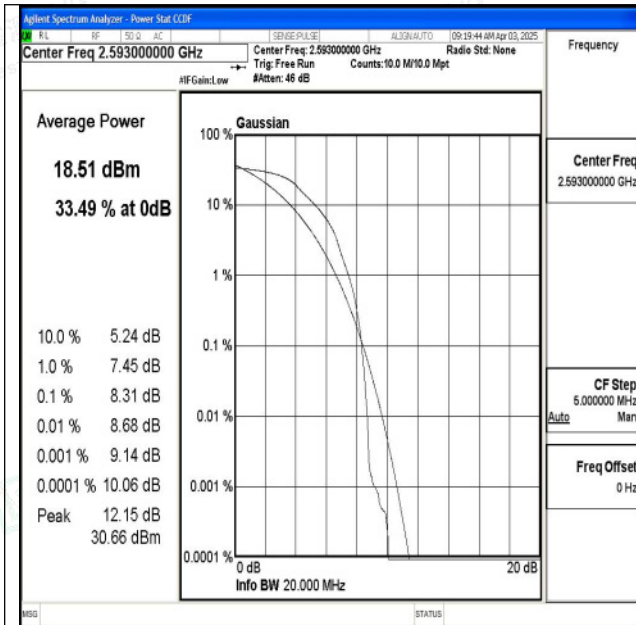
Band41-15MHz-QPSK-41515-75RB#0-PASS

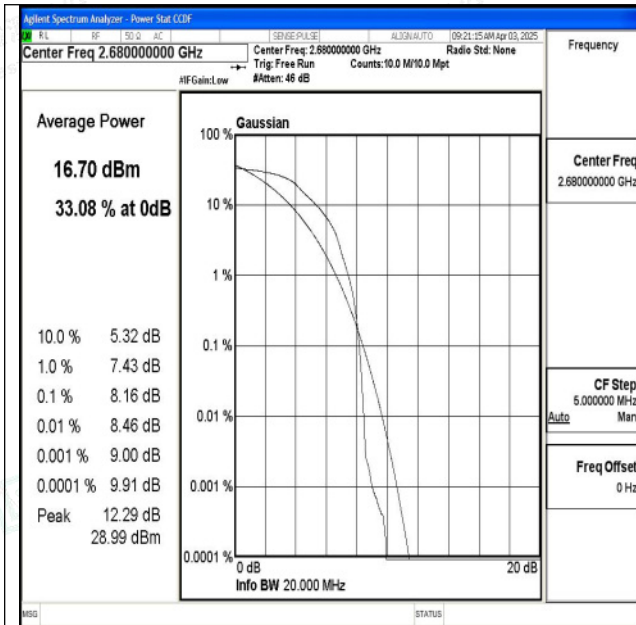


Band41-15MHz-16QAM-41515-75RB#0-PASS

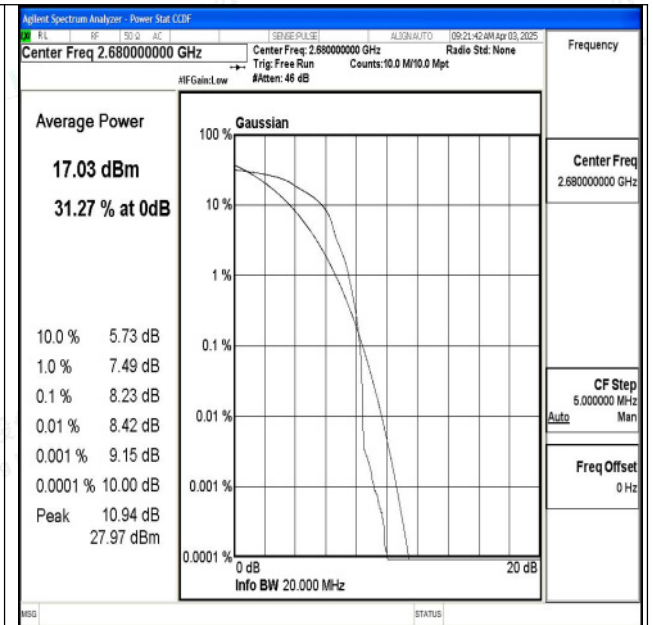




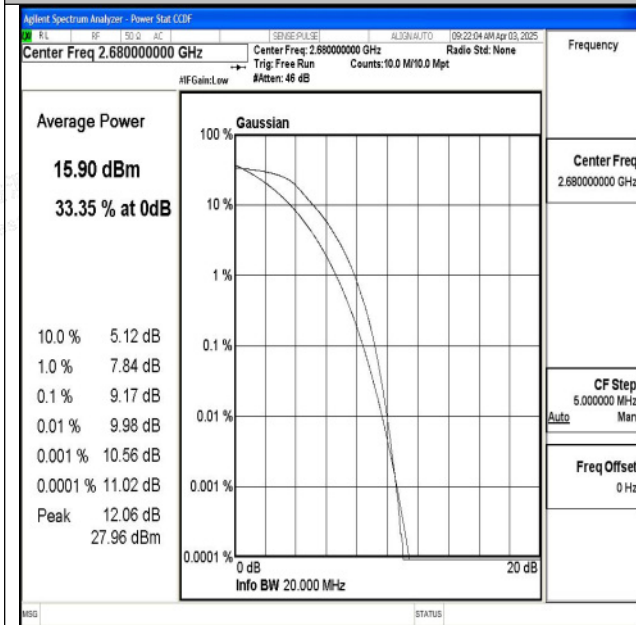




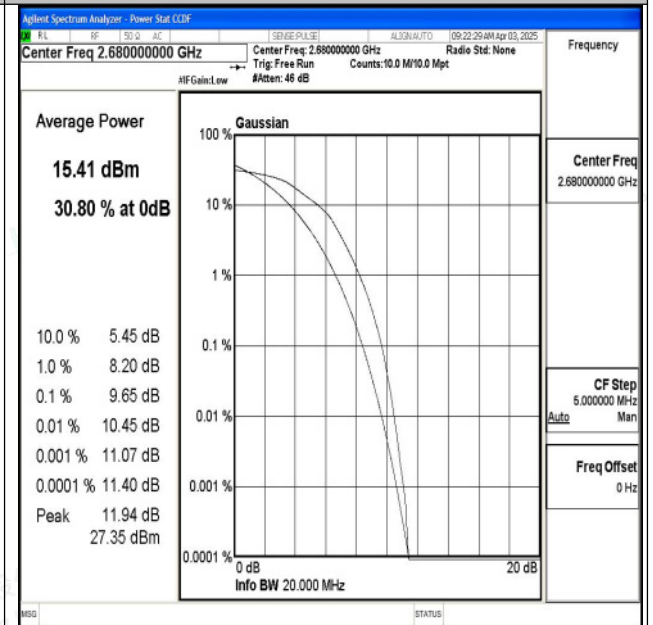
Band41-20MHz-QPSK-41490-1RB#0-PASS



Band41-20MHz-16QAM-41490-1RB#0-PASS



Band41-20MHz-QPSK-41490-100RB#0-PASS



Band41-20MHz-16QAM-41490-100RB#0-PASS





K.3 26dB Bandwidth and Occupied Bandwidth

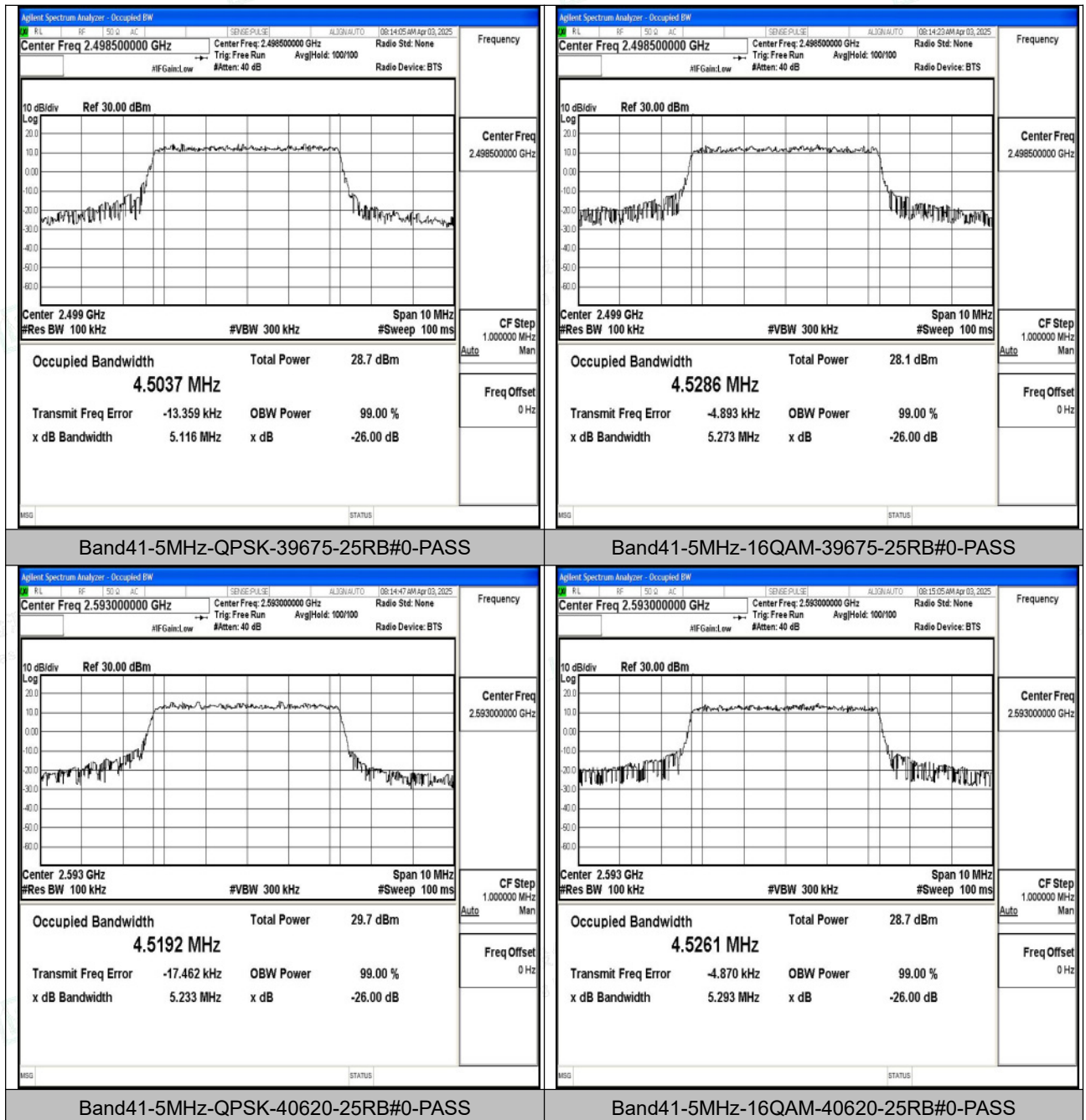
Test Result

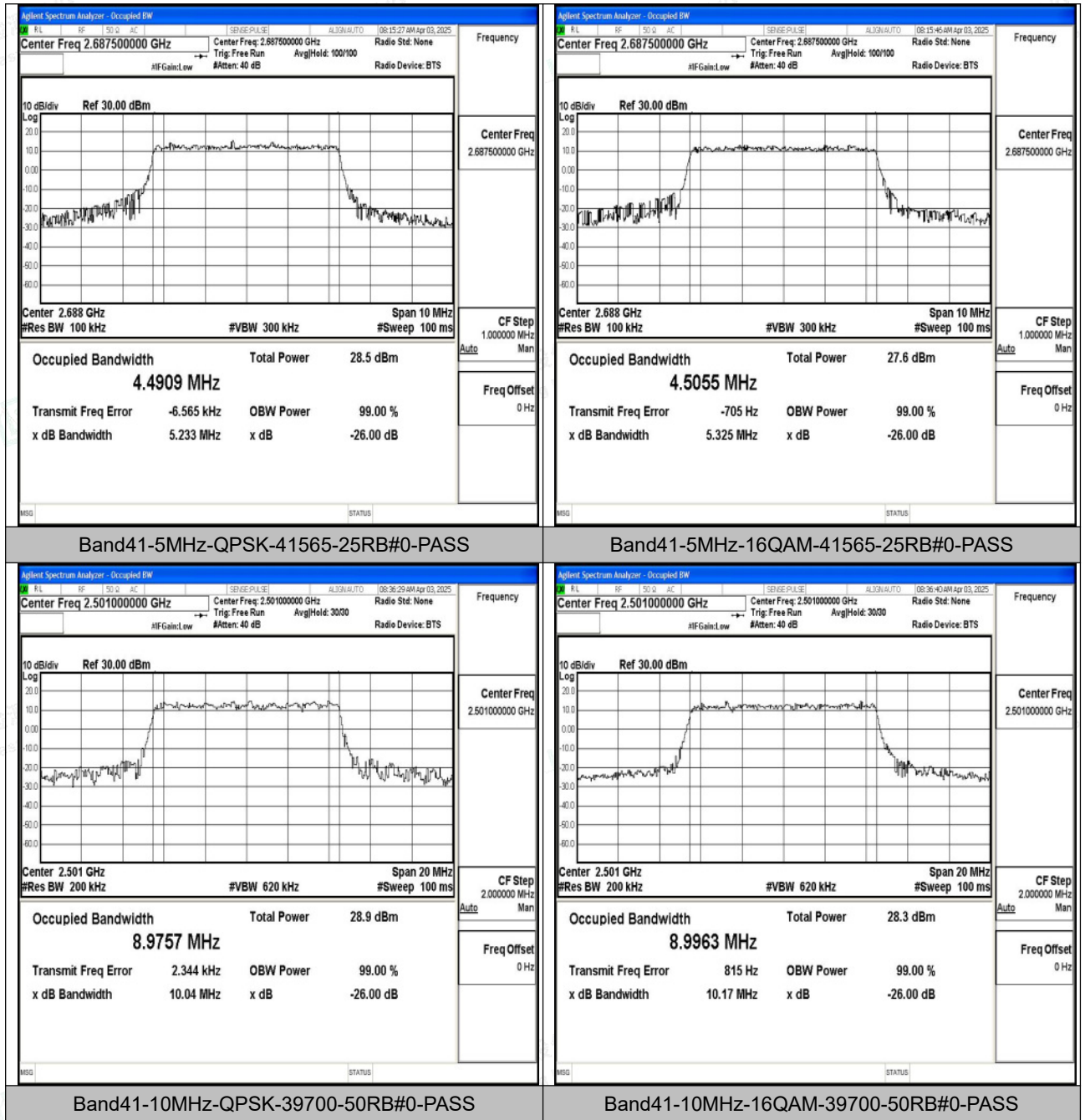
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	4.5037	5.116	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.5286	5.273	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.5192	5.233	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.5261	5.293	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.4909	5.233	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.5055	5.325	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.9757	10.04	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.9963	10.17	PASS
Band41	10MHz	QPSK	40620	50RB#0	9.0001	10.10	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.9958	10.07	PASS
Band41	10MHz	QPSK	41540	50RB#0	9.0114	10.27	PASS
Band41	10MHz	16QAM	41540	50RB#0	9.0147	10.88	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.527	15.79	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.500	15.56	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.562	16.08	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.526	15.37	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.527	15.46	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.476	15.14	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.966	20.36	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.971	19.82	PASS
Band41	20MHz	QPSK	40620	100RB#0	18.010	19.69	PASS
Band41	20MHz	16QAM	40620	100RB#0	18.036	19.71	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.898	20.09	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.981	19.81	PASS





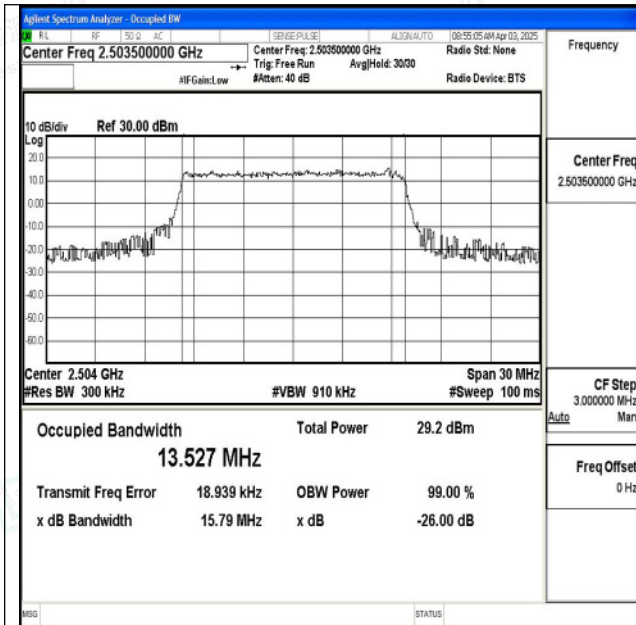
Test Graphs



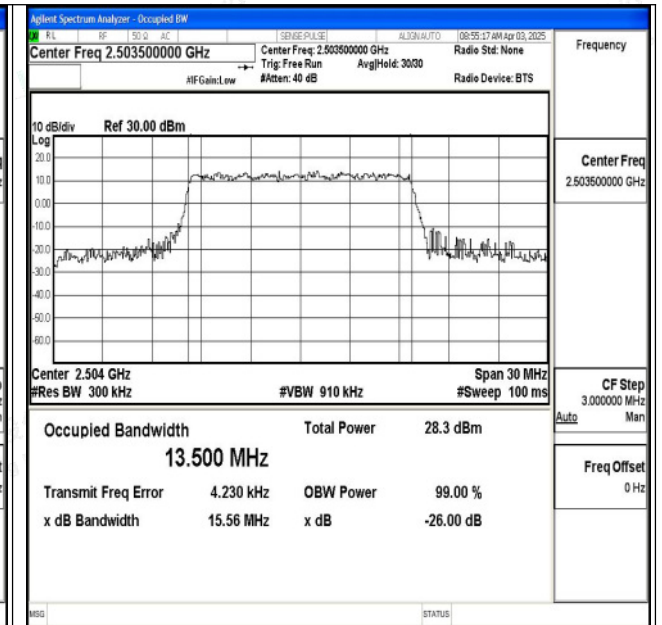




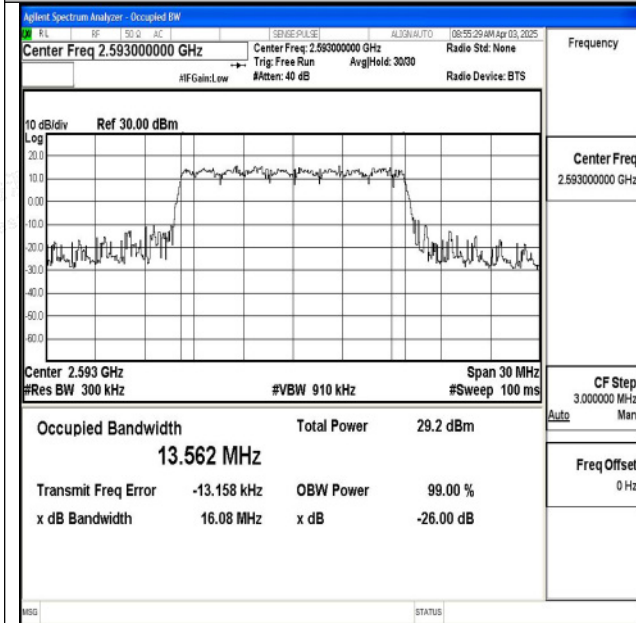
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518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity



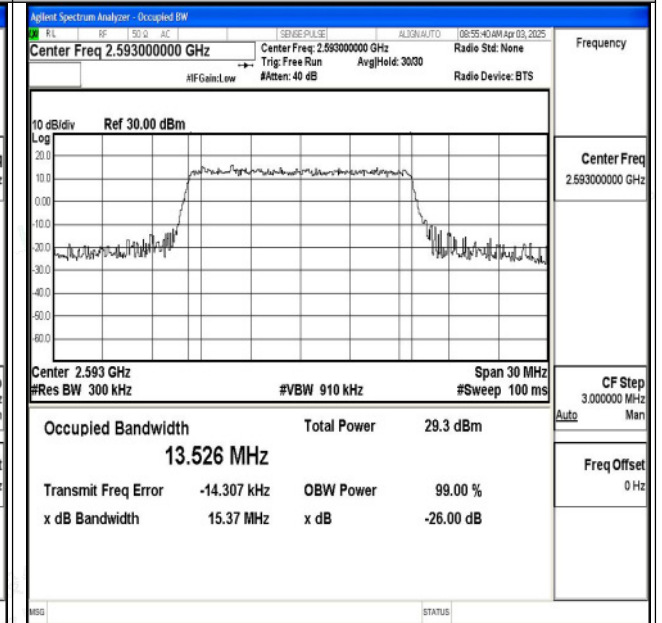
Band41-15MHz-QPSK-39725-75RB#0-PASS



Band41-15MHz-16QAM-39725-75RB#0-PASS



Band41-15MHz-QPSK-40620-75RB#0-PASS



Band41-15MHz-16QAM-40620-75RB#0-PASS



