FCC LTE Band Test Data

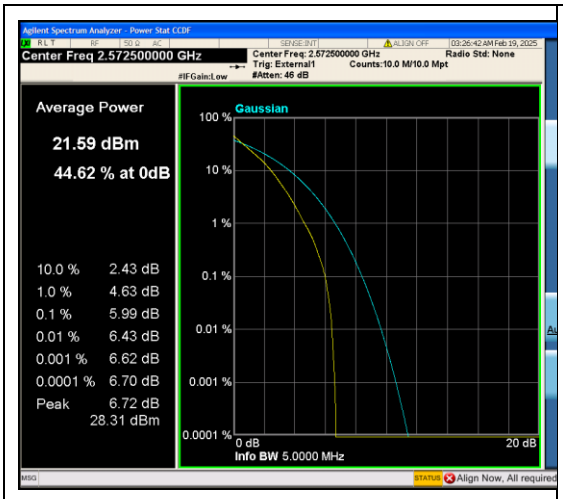
FCC ID	**:**	**2BN2I-QF9007**
Company:	**:**	**Shenzhen Qian feng INFORMATION Technology Co., LTD.**
EUT	**:**	**Vehicle navigation**
Model Number	**:**	**QF9007**
Reviewed By	**:**	**Eric Wang**

Appendix B: Peak-to-Average Ratio(CCDF)

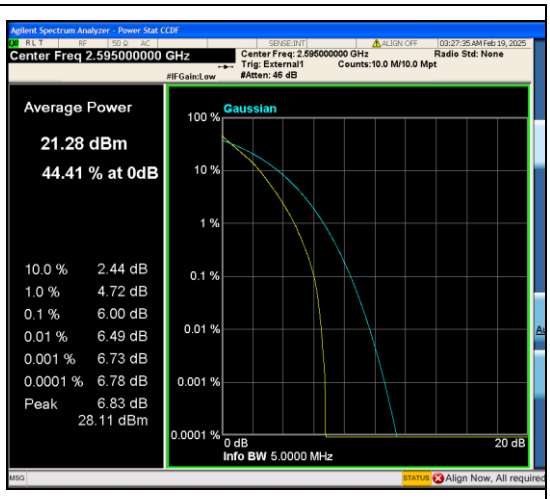
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	5.99	13	PASS
Band38	5MHz	QPSK	38000	25RB#0	6.00	13	PASS
Band38	5MHz	QPSK	38225	25RB#0	6.03	13	PASS
Band38	5MHz	16QAM	37775	25RB#0	6.67	13	PASS
Band38	5MHz	16QAM	38000	25RB#0	6.71	13	PASS
Band38	5MHz	16QAM	38225	25RB#0	6.76	13	PASS
Band38	10MHz	QPSK	37800	50RB#0	5.90	13	PASS
Band38	10MHz	QPSK	38000	50RB#0	5.97	13	PASS
Band38	10MHz	QPSK	38200	50RB#0	6.03	13	PASS
Band38	10MHz	16QAM	37800	50RB#0	6.64	13	PASS
Band38	10MHz	16QAM	38000	50RB#0	6.74	13	PASS
Band38	10MHz	16QAM	38200	50RB#0	6.83	13	PASS
Band38	15MHz	QPSK	37825	75RB#0	6.17	13	PASS
Band38	15MHz	QPSK	38000	75RB#0	6.23	13	PASS
Band38	15MHz	QPSK	38175	75RB#0	6.29	13	PASS
Band38	15MHz	16QAM	37825	75RB#0	6.73	13	PASS
Band38	15MHz	16QAM	38000	75RB#0	6.80	13	PASS
Band38	15MHz	16QAM	38175	75RB#0	6.85	13	PASS
Band38	20MHz	QPSK	37850	100RB#0	5.82	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	5.87	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	5.90	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	6.62	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	6.68	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	6.71	13	PASS

Test Graphs



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



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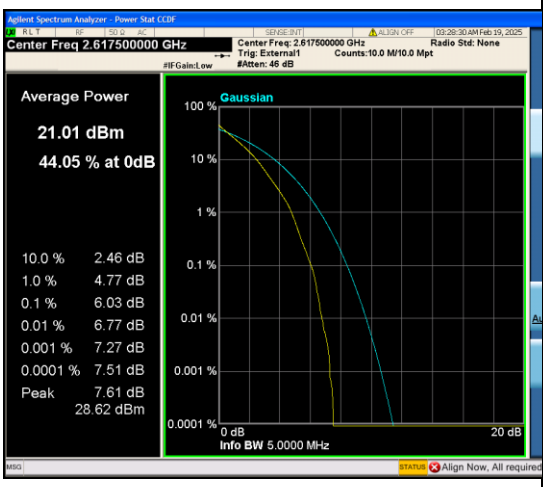

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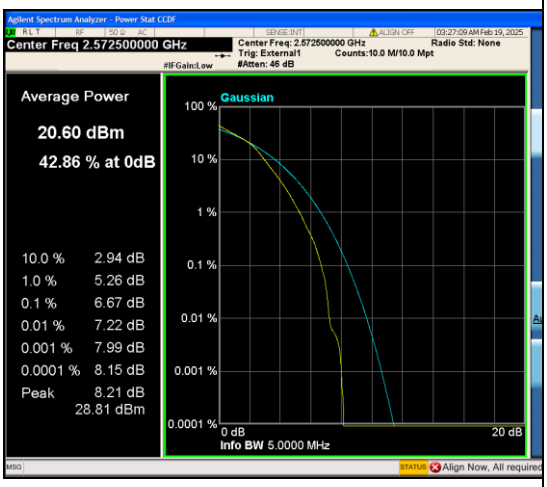

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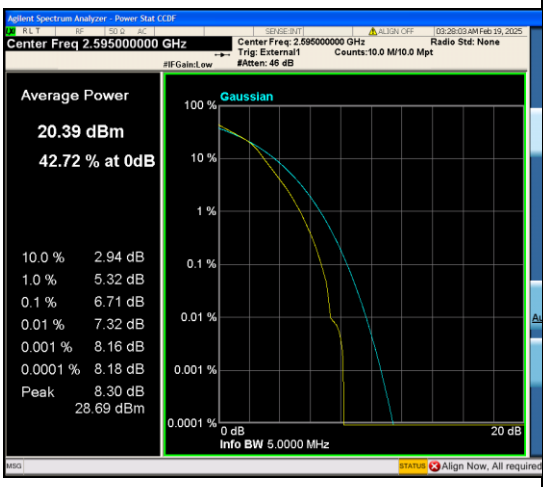

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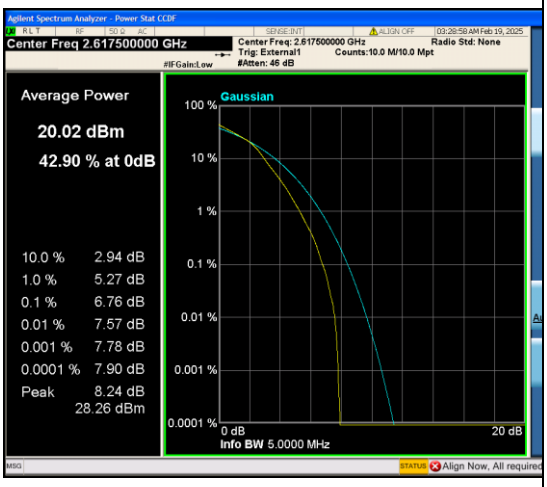

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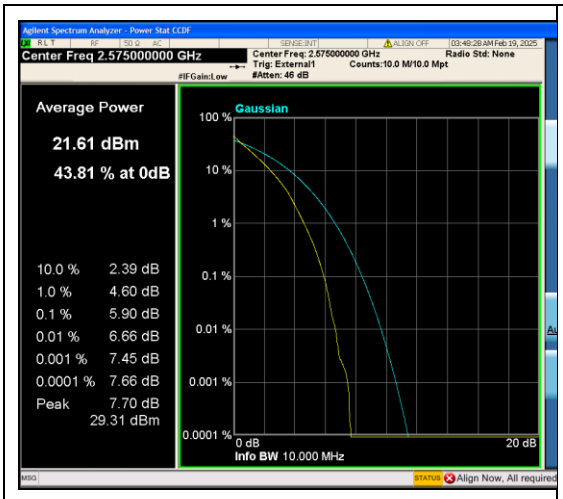
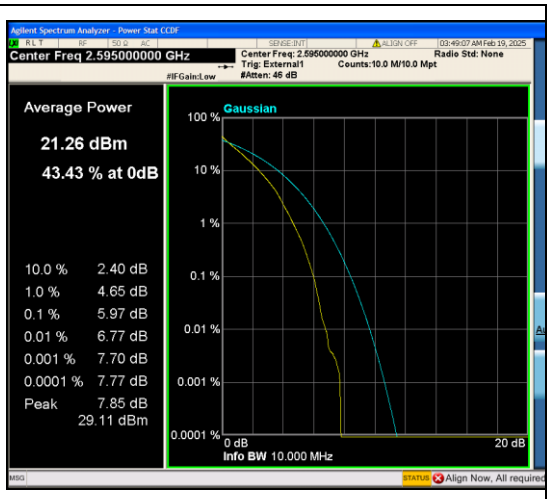


Band38-10MHz-QPSK-37800-50RB#0-PASS



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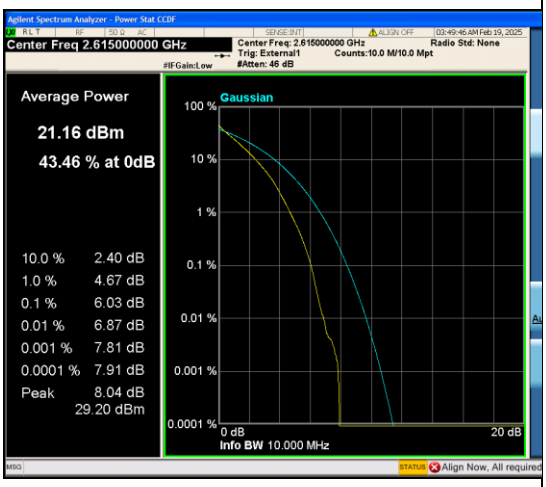

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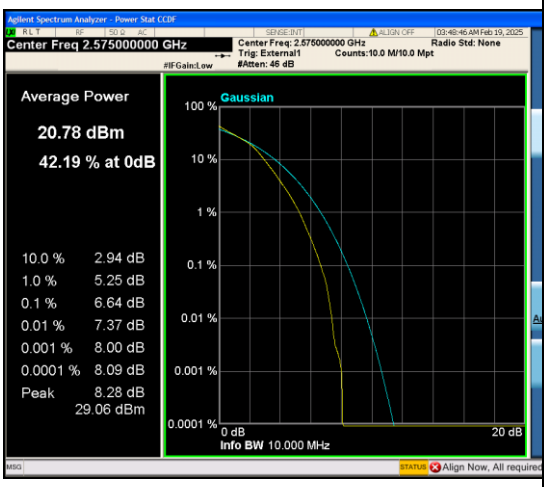

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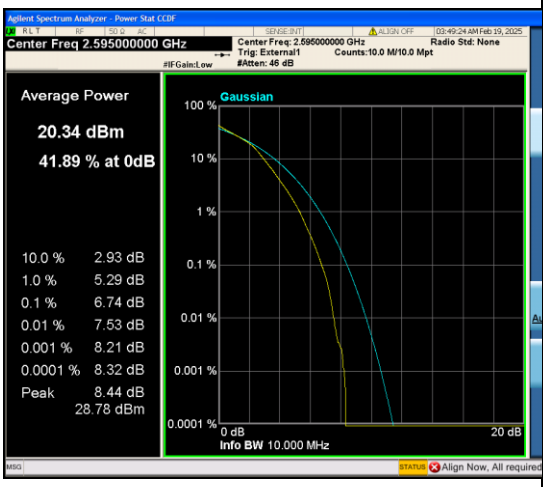

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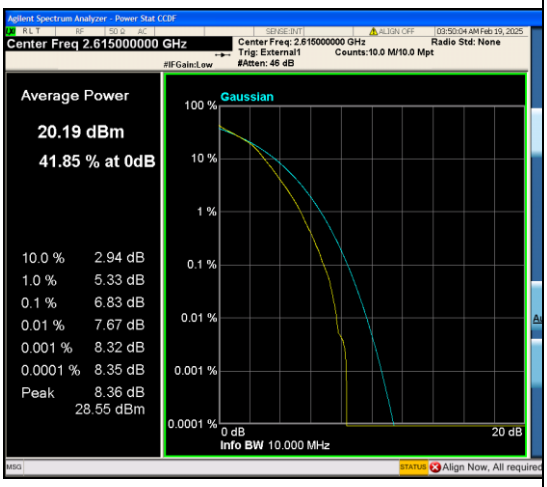

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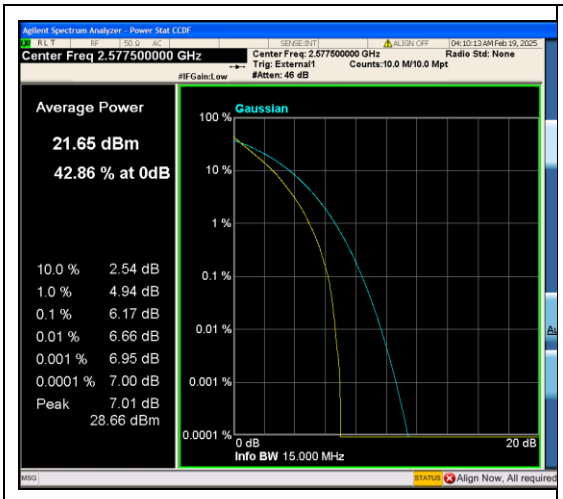
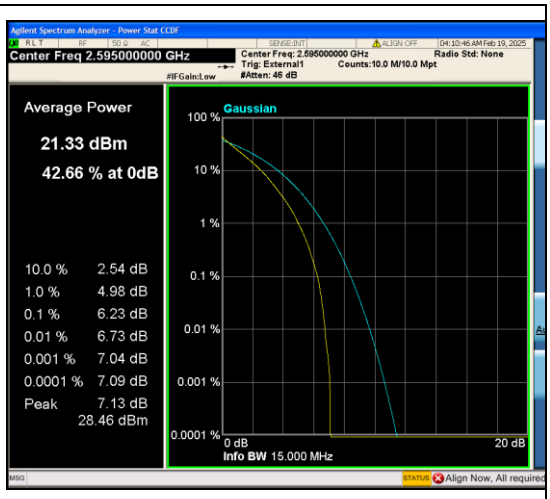
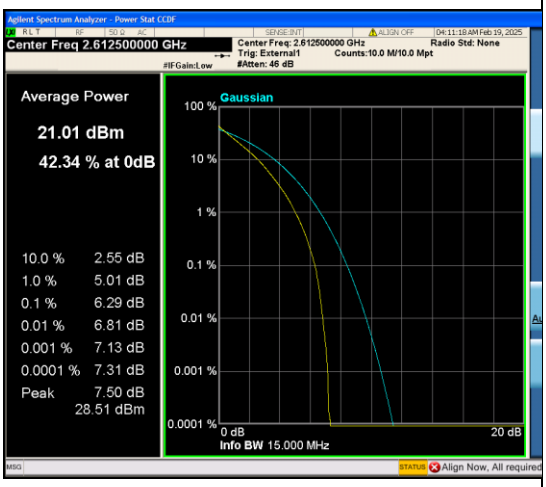


Band38-15MHz-QPSK-37825-75RB#0-PASS



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



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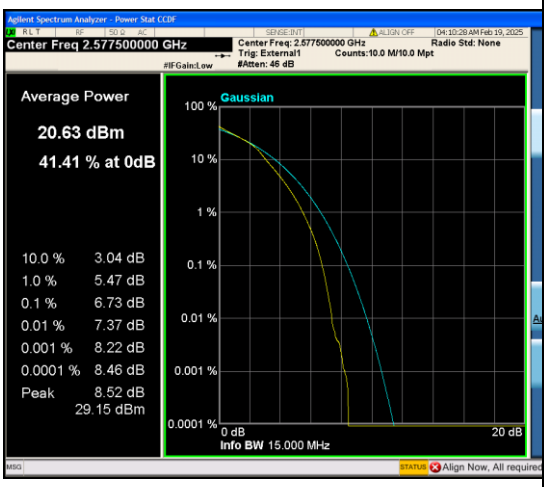

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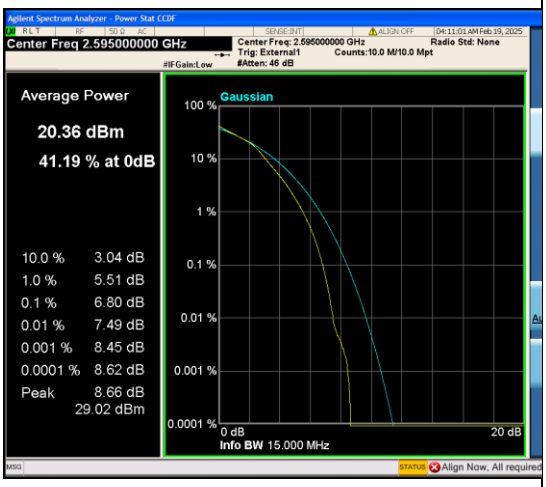

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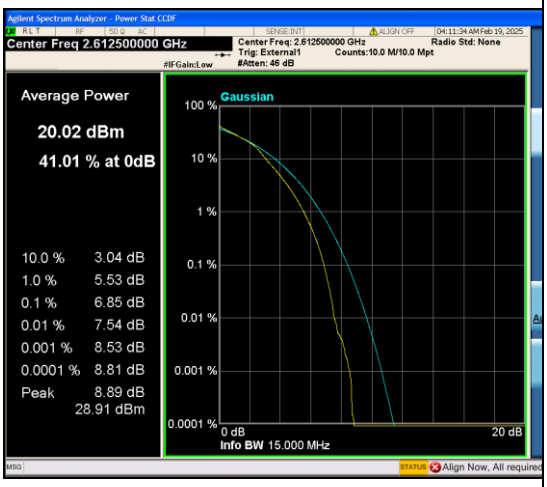

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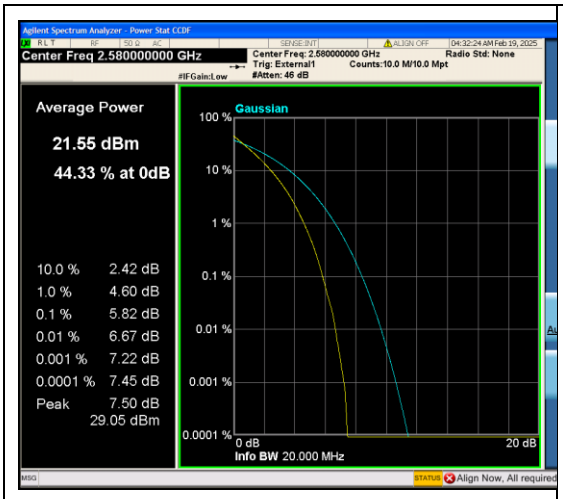

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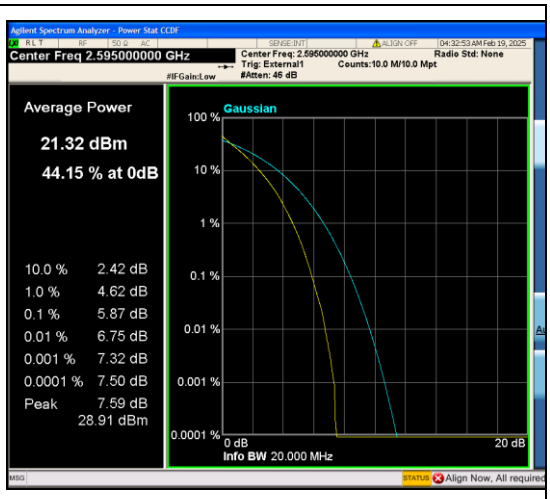
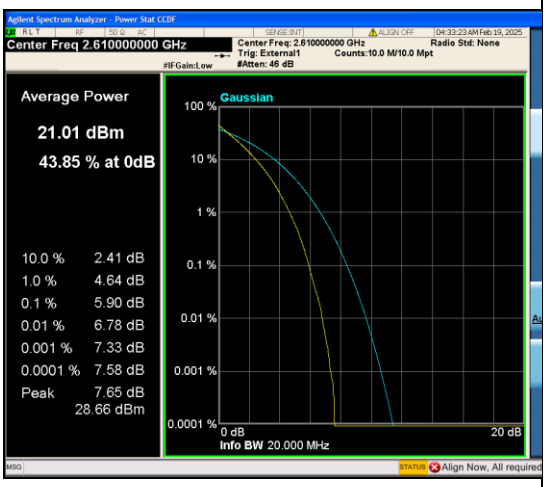


Band38-20MHz-QPSK-38000-100RB#0-PASS



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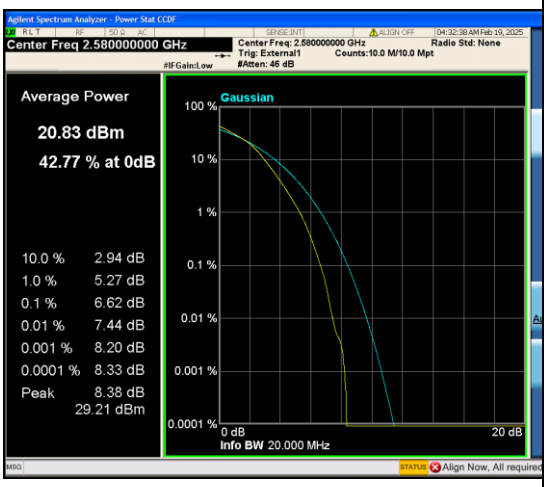
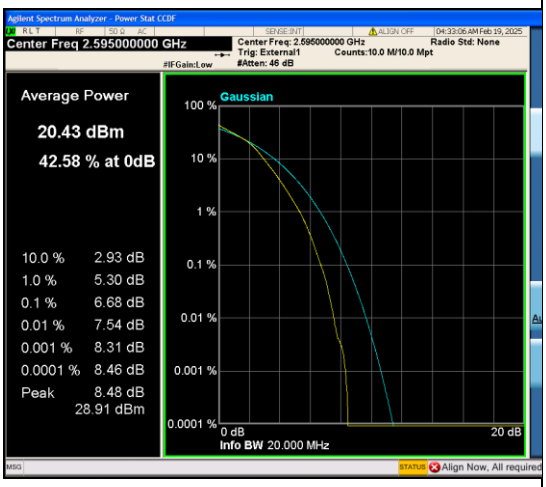
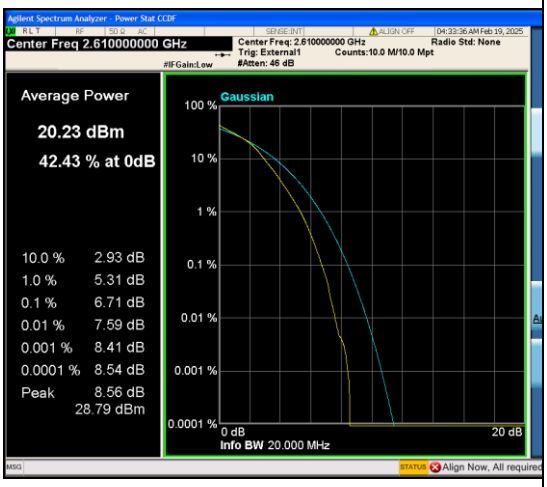


Band38-20MHz-16QAM-37850-100RB#0-PASS



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



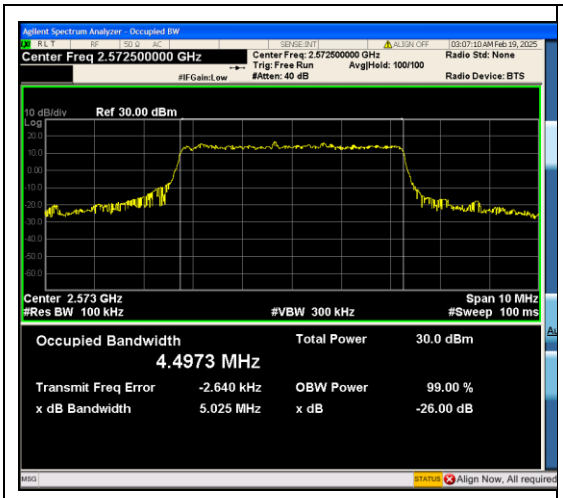
Band38-20MHz-16QAM-38150-100RB#0-PASS

Appendix C: 26dB Bandwidth and Occupied Bandwidth

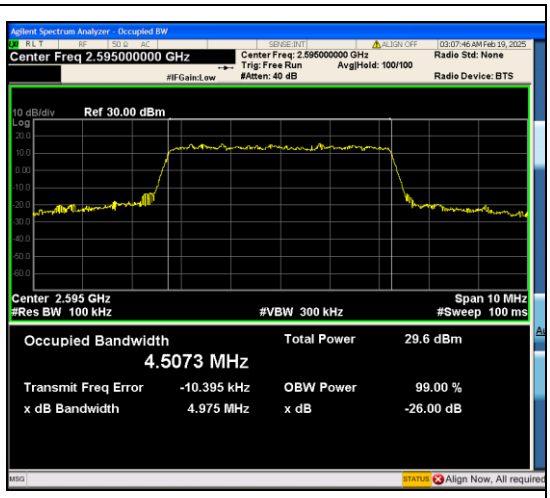
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	4.4973	5.025	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.5073	4.975	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.4979	5.104	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.4981	5.060	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.5039	5.091	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.4952	5.072	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.9997	9.861	PASS
Band38	10MHz	QPSK	38000	50RB#0	9.0042	9.893	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.9921	9.873	PASS
Band38	10MHz	16QAM	37800	50RB#0	9.0009	9.867	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.9976	9.893	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.9987	9.913	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.513	14.90	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.520	15.35	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.526	15.16	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.499	15.15	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.506	15.16	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.505	15.24	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.988	19.60	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.992	19.60	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.992	19.62	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.964	19.67	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.953	19.72	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.967	19.88	PASS

Test Graphs



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



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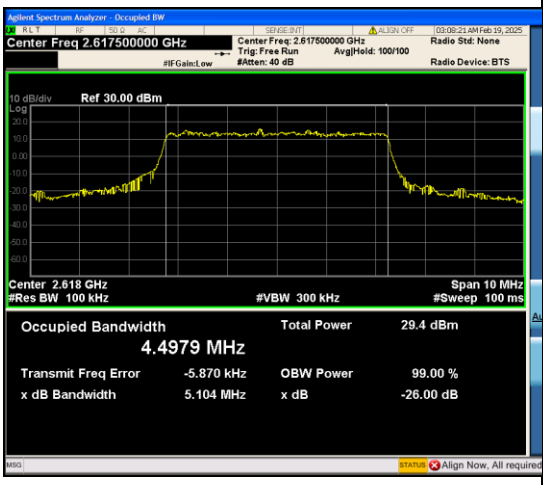

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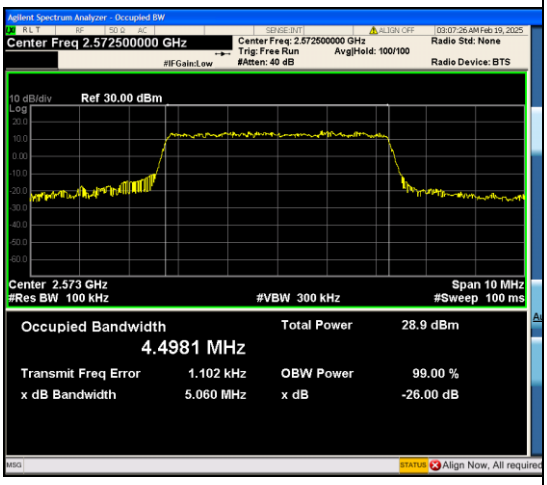
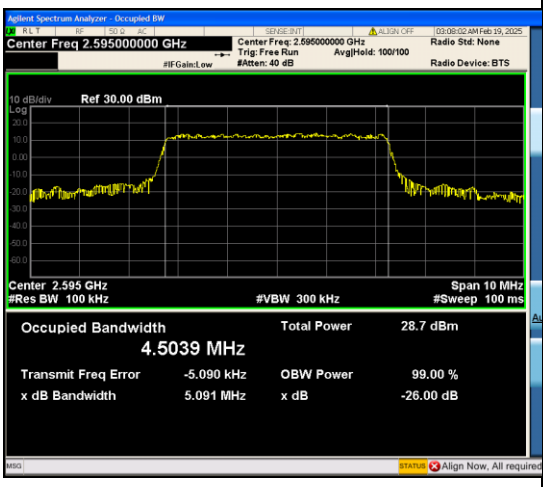
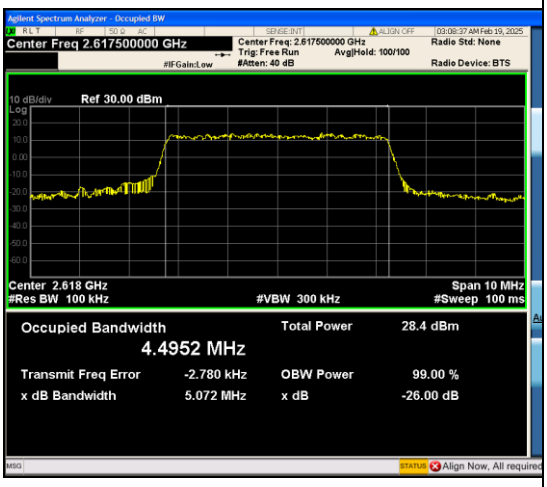


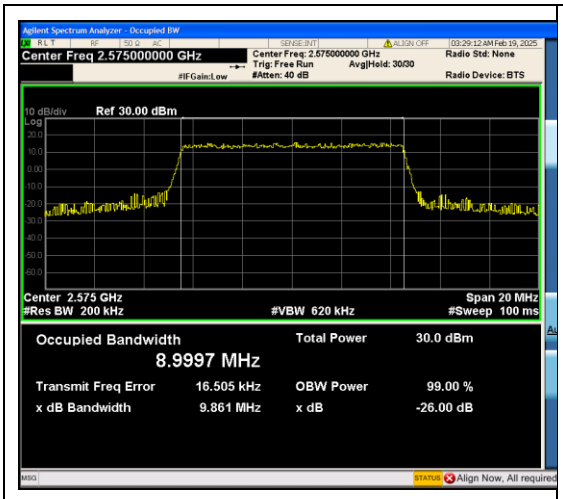
Band38-5MHz-16QAM-37775-25RB#0-PASS



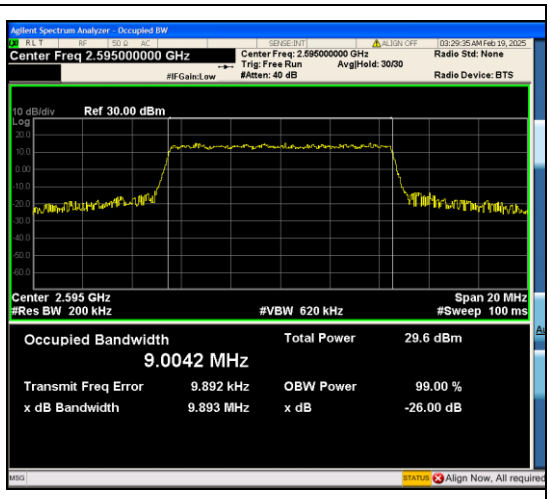
Band38-5MHz-16QAM-38000-25RB#0-PASS



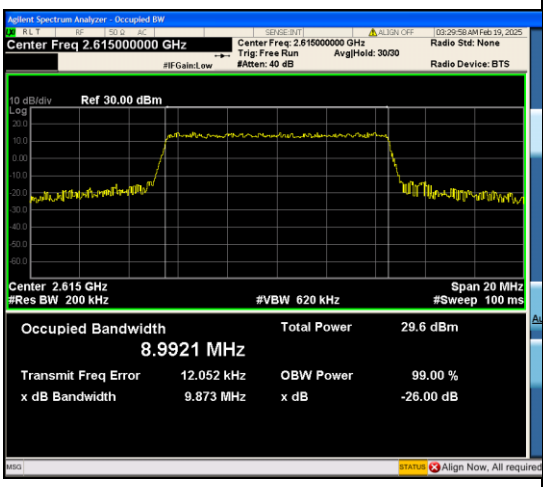
Band38-5MHz-16QAM-38225-25RB#0-PASS



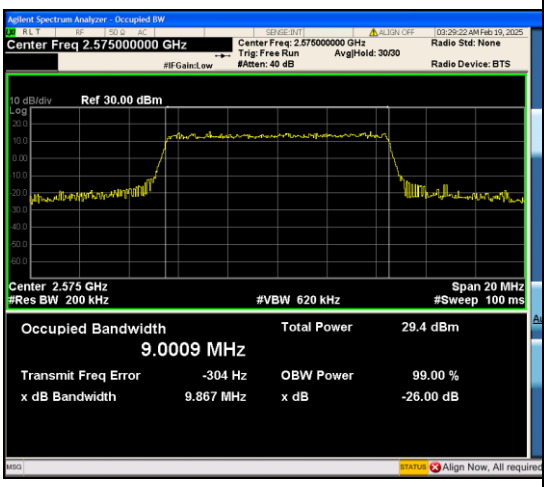
Band38-10MHz-QPSK-37800-50RB#0-PASS



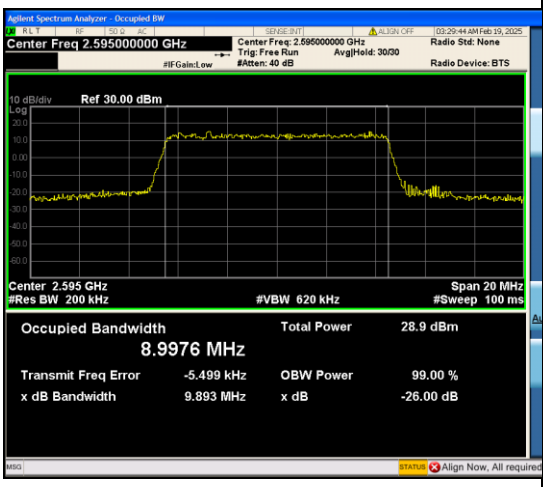
Band38-10MHz-QPSK-38000-50RB#0-PASS



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



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



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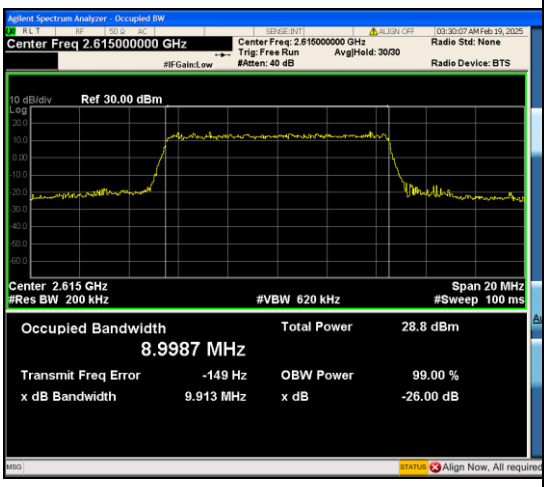
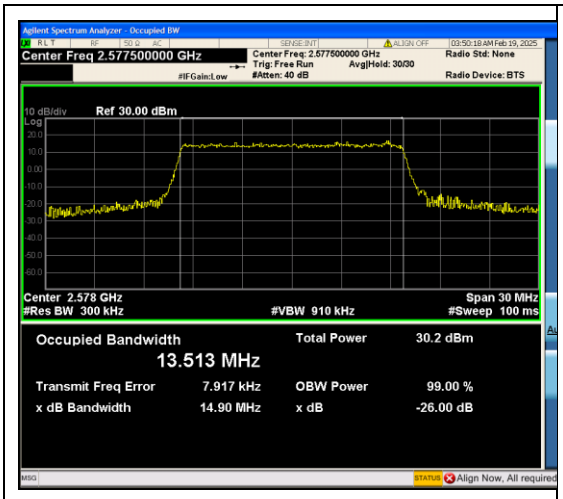
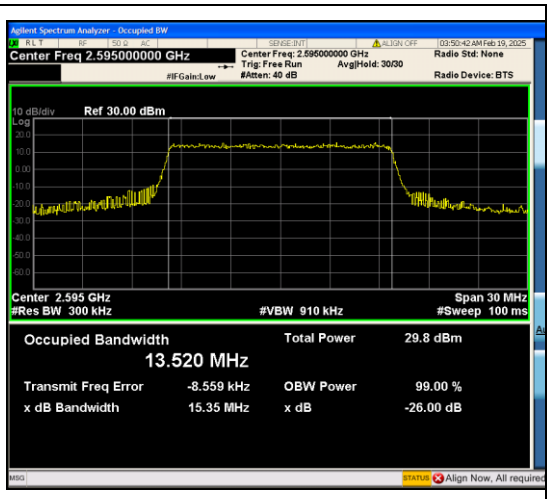


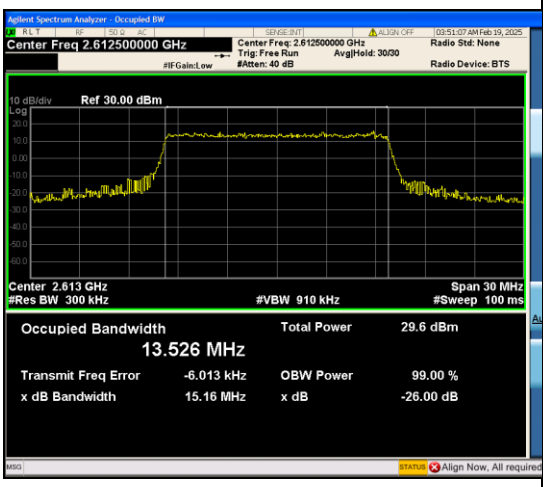
Band38-10MHz-16QAM-38200-50RB#0-PASS



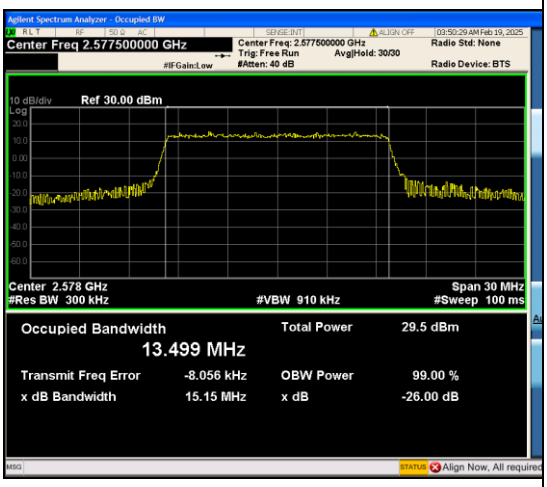
Band38-15MHz-QPSK-37825-75RB#0-PASS



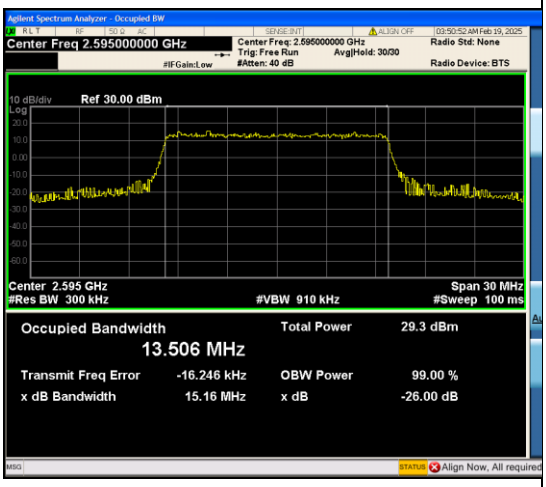
Band38-15MHz-QPSK-38000-75RB#0-PASS



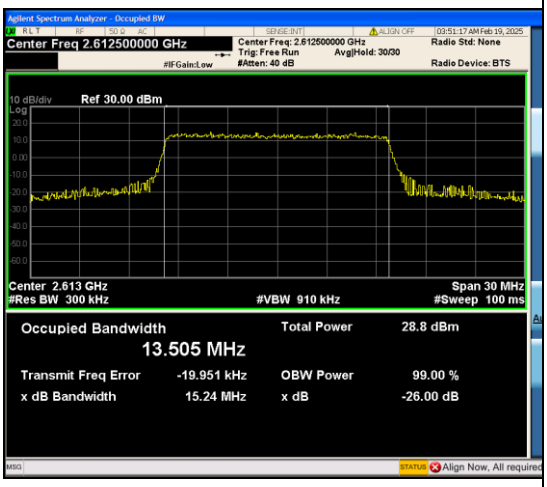
Band38-15MHz-QPSK-38175-75RB#0-PASS



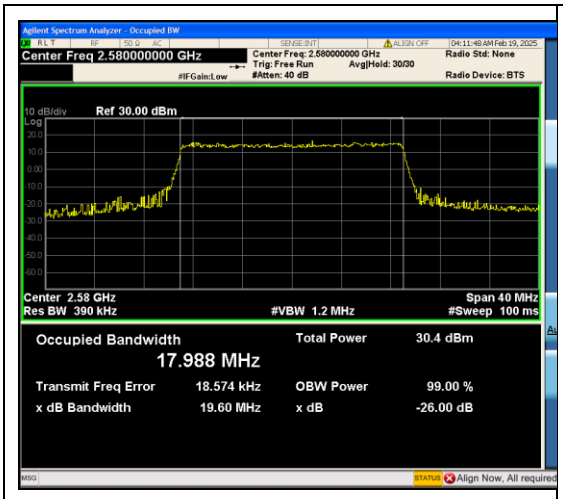
Band38-15MHz-16QAM-37825-75RB#0-PASS



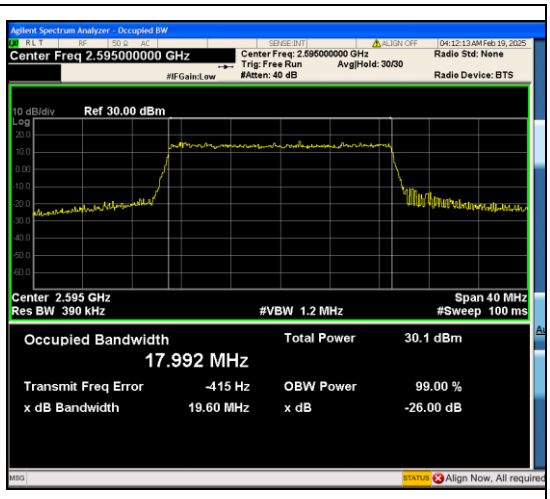
Band38-15MHz-16QAM-38000-75RB#0-PASS



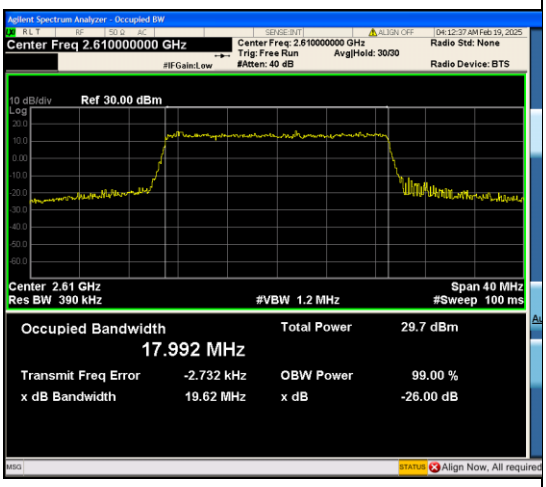
Band38-15MHz-16QAM-38175-75RB#0-PASS



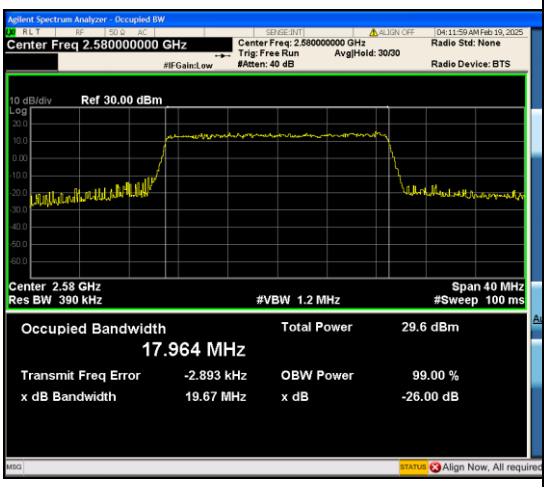
Band38-20MHz-QPSK-37850-100RB#0-PASS



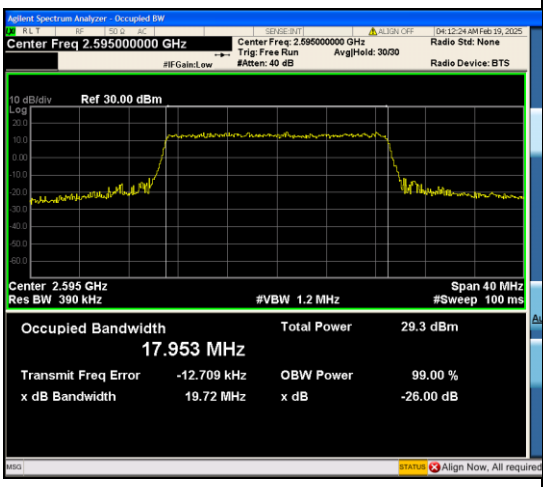
Band38-20MHz-QPSK-38000-100RB#0-PASS



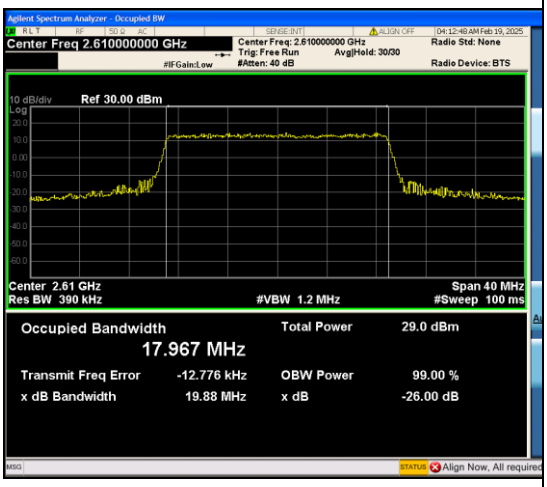
Band38-20MHz-QPSK-38150-100RB#0-PASS



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



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



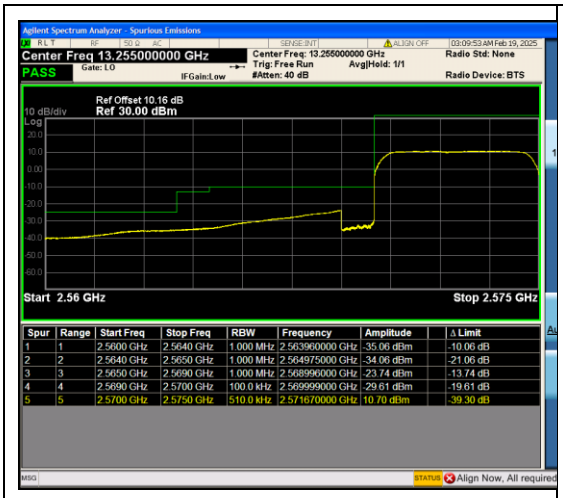
Band38-20MHz-16QAM-38150-100RB#0-PASS

Appendix D: Band Edge

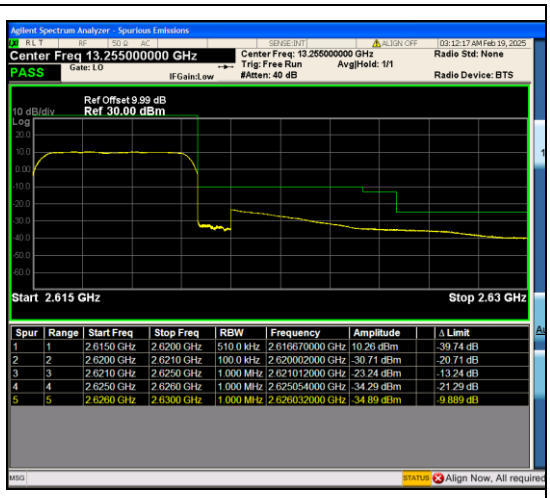
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	-35.06	PASS
Band38	5MHz	QPSK	38225	25RB#0	-34.89	PASS
Band38	5MHz	16QAM	37775	25RB#0	-35.38	PASS
Band38	5MHz	16QAM	38225	25RB#0	-35.82	PASS
Band38	10MHz	QPSK	37800	50RB#0	-37.14	PASS
Band38	10MHz	QPSK	38200	50RB#0	-36.68	PASS
Band38	10MHz	16QAM	37800	50RB#0	-36.82	PASS
Band38	10MHz	16QAM	38200	50RB#0	-36.18	PASS
Band38	15MHz	QPSK	37825	75RB#0	-37.56	PASS
Band38	15MHz	QPSK	38175	75RB#0	-36.20	PASS
Band38	15MHz	16QAM	37825	75RB#0	-37.46	PASS
Band38	15MHz	16QAM	38175	75RB#0	-36.17	PASS
Band38	20MHz	QPSK	37850	100RB#0	-39.47	PASS
Band38	20MHz	QPSK	38150	100RB#0	-38.25	PASS
Band38	20MHz	16QAM	37850	100RB#0	-39.27	PASS
Band38	20MHz	16QAM	38150	100RB#0	-37.91	PASS

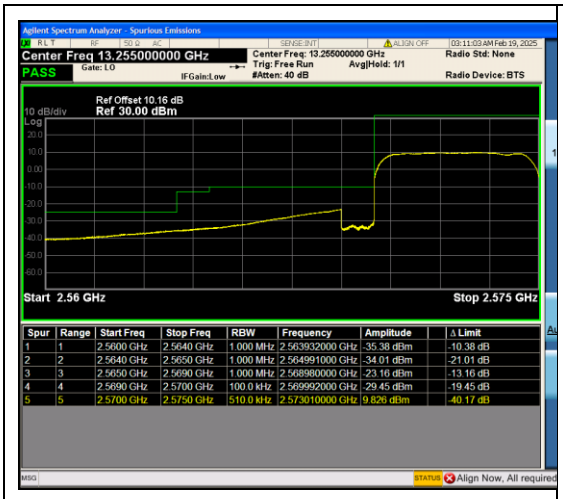
Test Graphs



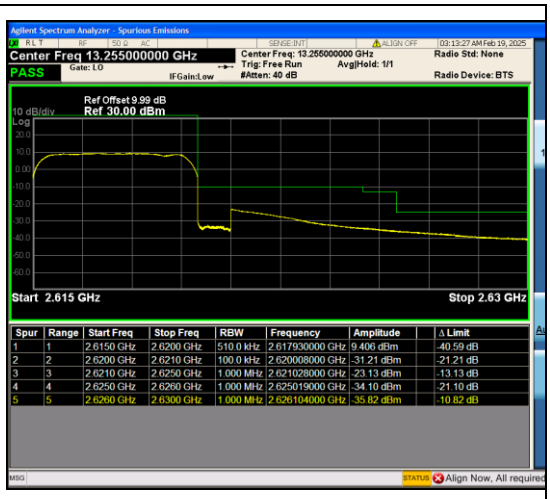
Band38_5MHz_QPSK_37775_25RB#0



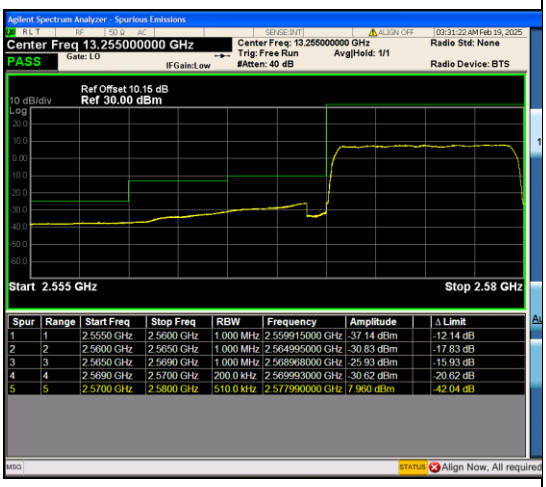
Band38_5MHz_QPSK_38225_25RB#0



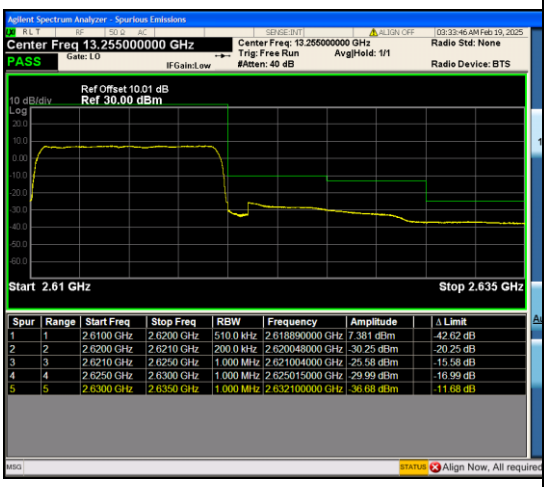
Band38_5MHz_16QAM_37775_25RB#0



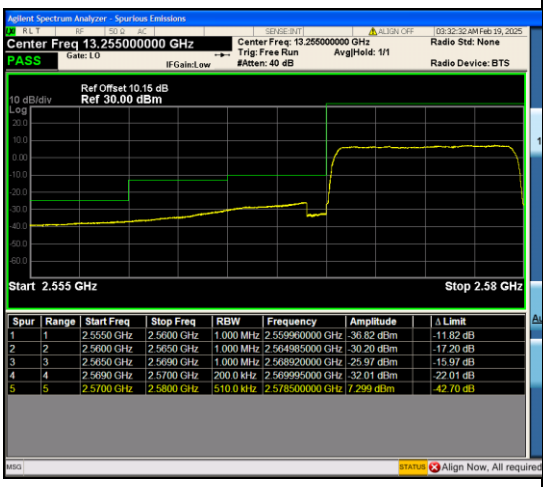
Band38_5MHz_16QAM_38225_25RB#0



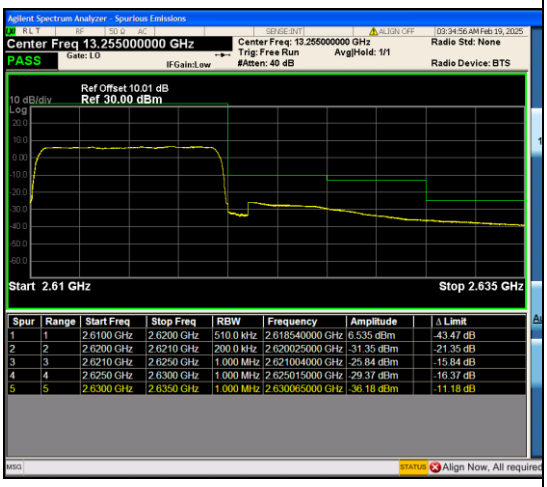
Band38_10MHz_QPSK_37800_50RB#0



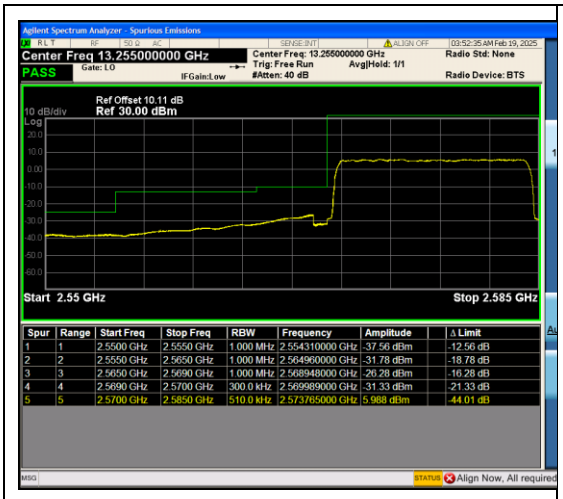
Band38_10MHz_QPSK_38200_50RB#0



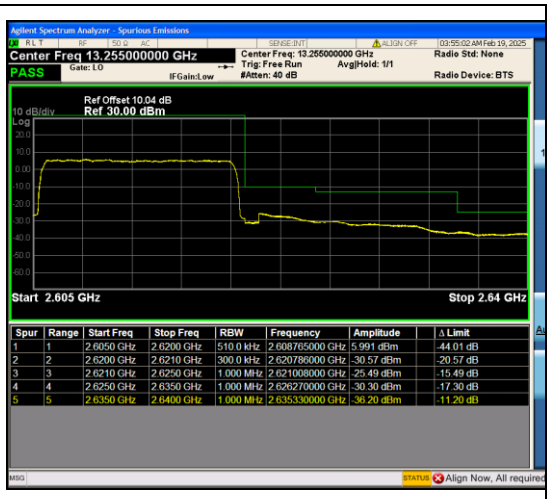
Band38_10MHz_16QAM_37800_50RB#0



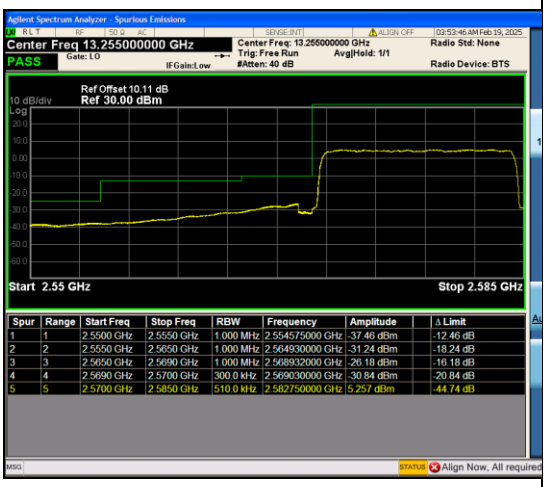
Band38_10MHz_16QAM_38200_50RB#0



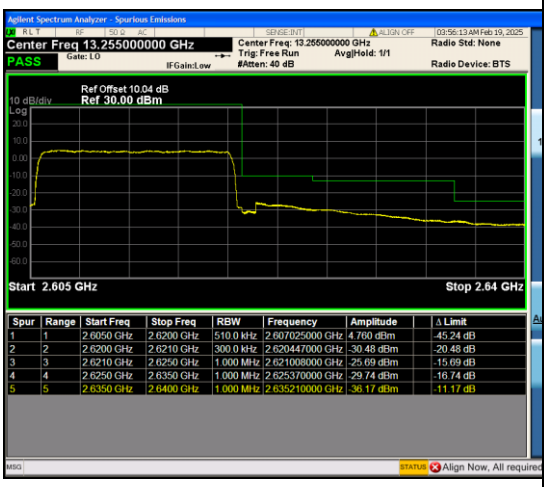
Band38_15MHz_QPSK_37825_75RB#0



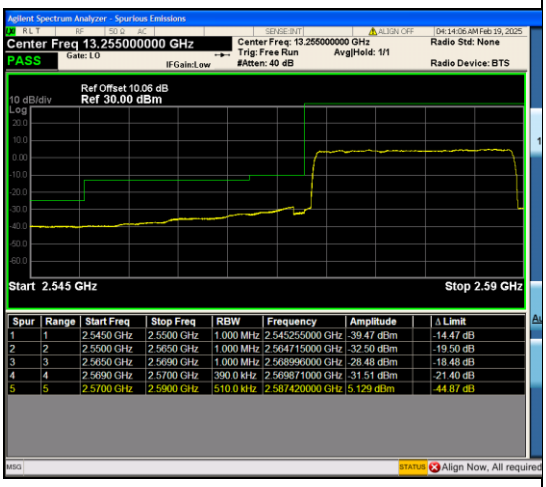
Band38_15MHz_QPSK_38175_75RB#0



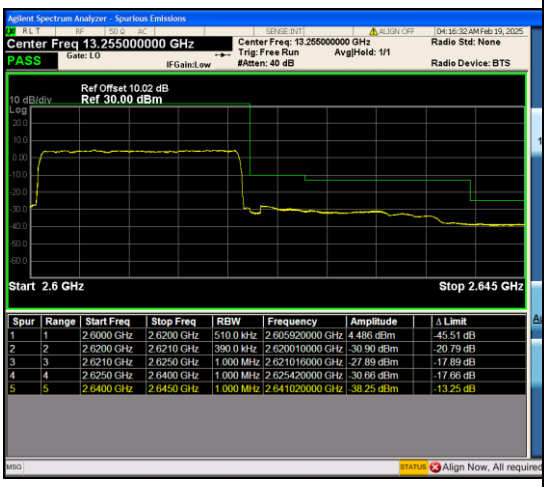
Band38_15MHz_16QAM_37825_75RB#0



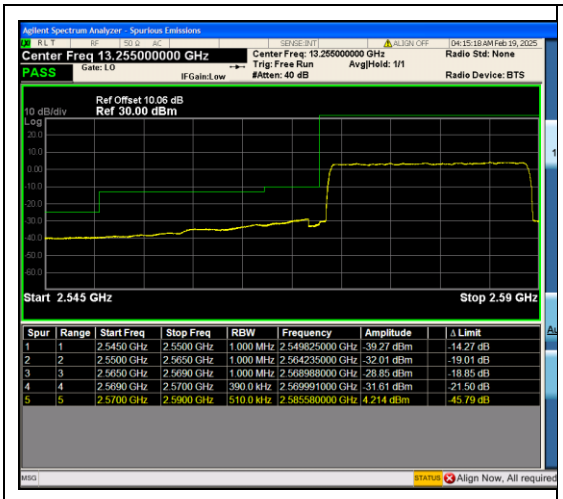
Band38_15MHz_16QAM_38175_75RB#0



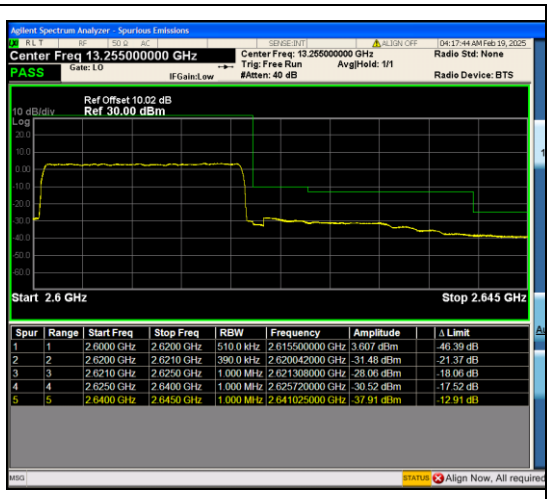
Band38_20MHz_QPSK_37850_100RB#0



Band38_20MHz_QPSK_38150_100RB#0



Band38_20MHz_16QAM_37850_100RB#0



Band38_20MHz_16QAM_38150_100RB#0

Appendix E: Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	0.009~0.15	-66.71	PASS
Band38	5MHz	QPSK	37775	25RB#0	0.15~30	-64.14	PASS
Band38	5MHz	QPSK	37775	25RB#0	30~1000	-61.84	PASS
Band38	5MHz	QPSK	37775	25RB#0	1000~20000	-33.71	PASS
Band38	5MHz	QPSK	37775	25RB#0	20000~27000	-32.13	PASS
Band38	5MHz	QPSK	38000	25RB#0	0.009~0.15	-68.45	PASS
Band38	5MHz	QPSK	38000	25RB#0	0.15~30	-63.43	PASS
Band38	5MHz	QPSK	38000	25RB#0	30~1000	-61.76	PASS
Band38	5MHz	QPSK	38000	25RB#0	1000~20000	-35.72	PASS
Band38	5MHz	QPSK	38000	25RB#0	20000~27000	-32.11	PASS
Band38	5MHz	QPSK	38225	25RB#0	0.009~0.15	-65.10	PASS
Band38	5MHz	QPSK	38225	25RB#0	0.15~30	-61.01	PASS
Band38	5MHz	QPSK	38225	25RB#0	30~1000	-61.77	PASS
Band38	5MHz	QPSK	38225	25RB#0	1000~20000	-35.87	PASS
Band38	5MHz	QPSK	38225	25RB#0	20000~27000	-32.20	PASS
Band38	5MHz	16QAM	37775	25RB#0	0.009~0.15	-68.41	PASS
Band38	5MHz	16QAM	37775	25RB#0	0.15~30	-61.76	PASS
Band38	5MHz	16QAM	37775	25RB#0	30~1000	-61.64	PASS
Band38	5MHz	16QAM	37775	25RB#0	1000~20000	-35.71	PASS
Band38	5MHz	16QAM	37775	25RB#0	20000~27000	-31.85	PASS
Band38	5MHz	16QAM	38000	25RB#0	0.009~0.15	-65.54	PASS
Band38	5MHz	16QAM	38000	25RB#0	0.15~30	-60.84	PASS
Band38	5MHz	16QAM	38000	25RB#0	30~1000	-62.05	PASS
Band38	5MHz	16QAM	38000	25RB#0	1000~20000	-37.85	PASS
Band38	5MHz	16QAM	38000	25RB#0	20000~27000	-32.28	PASS
Band38	5MHz	16QAM	38225	25RB#0	0.009~0.15	-66.97	PASS
Band38	5MHz	16QAM	38225	25RB#0	0.15~30	-64.17	PASS
Band38	5MHz	16QAM	38225	25RB#0	30~1000	-61.58	PASS
Band38	5MHz	16QAM	38225	25RB#0	1000~20000	-38.48	PASS
Band38	5MHz	16QAM	38225	25RB#0	20000~27000	-31.91	PASS
Band38	10MHz	QPSK	37800	50RB#0	0.009~0.15	-66.98	PASS
Band38	10MHz	QPSK	37800	50RB#0	0.15~30	-62.36	PASS
Band38	10MHz	QPSK	37800	50RB#0	30~1000	-61.85	PASS
Band38	10MHz	QPSK	37800	50RB#0	1000~20000	-37.74	PASS
Band38	10MHz	QPSK	37800	50RB#0	20000~27000	-32.26	PASS
Band38	10MHz	QPSK	38000	50RB#0	0.009~0.15	-66.41	PASS

Band38	10MHz	QPSK	38000	50RB#0	0.15~30	-61.66	PASS
Band38	10MHz	QPSK	38000	50RB#0	30~1000	-61.69	PASS
Band38	10MHz	QPSK	38000	50RB#0	1000~20000	-37.99	PASS
Band38	10MHz	QPSK	38000	50RB#0	20000~27000	-32.07	PASS
Band38	10MHz	QPSK	38200	50RB#0	0.009~0.15	-69.39	PASS
Band38	10MHz	QPSK	38200	50RB#0	0.15~30	-64.30	PASS
Band38	10MHz	QPSK	38200	50RB#0	30~1000	-61.81	PASS
Band38	10MHz	QPSK	38200	50RB#0	1000~20000	-37.35	PASS
Band38	10MHz	QPSK	38200	50RB#0	20000~27000	-32.05	PASS
Band38	10MHz	16QAM	37800	50RB#0	0.009~0.15	-67.07	PASS
Band38	10MHz	16QAM	37800	50RB#0	0.15~30	-62.54	PASS
Band38	10MHz	16QAM	37800	50RB#0	30~1000	-61.90	PASS
Band38	10MHz	16QAM	37800	50RB#0	1000~20000	-38.83	PASS
Band38	10MHz	16QAM	37800	50RB#0	20000~27000	-31.97	PASS
Band38	10MHz	16QAM	38000	50RB#0	0.009~0.15	-66.98	PASS
Band38	10MHz	16QAM	38000	50RB#0	0.15~30	-60.21	PASS
Band38	10MHz	16QAM	38000	50RB#0	30~1000	-61.97	PASS
Band38	10MHz	16QAM	38000	50RB#0	1000~20000	-38.36	PASS
Band38	10MHz	16QAM	38000	50RB#0	20000~27000	-32.24	PASS
Band38	10MHz	16QAM	38200	50RB#0	0.009~0.15	-69.10	PASS
Band38	10MHz	16QAM	38200	50RB#0	0.15~30	-60.29	PASS
Band38	10MHz	16QAM	38200	50RB#0	30~1000	-61.68	PASS
Band38	10MHz	16QAM	38200	50RB#0	1000~20000	-38.10	PASS
Band38	10MHz	16QAM	38200	50RB#0	20000~27000	-32.24	PASS
Band38	15MHz	QPSK	37825	75RB#0	0.009~0.15	-66.81	PASS
Band38	15MHz	QPSK	37825	75RB#0	0.15~30	-62.30	PASS
Band38	15MHz	QPSK	37825	75RB#0	30~1000	-61.62	PASS
Band38	15MHz	QPSK	37825	75RB#0	1000~20000	-37.73	PASS
Band38	15MHz	QPSK	37825	75RB#0	20000~27000	-32.11	PASS
Band38	15MHz	QPSK	38000	75RB#0	0.009~0.15	-68.40	PASS
Band38	15MHz	QPSK	38000	75RB#0	0.15~30	-62.30	PASS
Band38	15MHz	QPSK	38000	75RB#0	30~1000	-61.84	PASS
Band38	15MHz	QPSK	38000	75RB#0	1000~20000	-37.96	PASS
Band38	15MHz	QPSK	38000	75RB#0	20000~27000	-32.18	PASS
Band38	15MHz	QPSK	38175	75RB#0	0.009~0.15	-67.79	PASS
Band38	15MHz	QPSK	38175	75RB#0	0.15~30	-60.77	PASS
Band38	15MHz	QPSK	38175	75RB#0	30~1000	-61.97	PASS
Band38	15MHz	QPSK	38175	75RB#0	1000~20000	-36.56	PASS
Band38	15MHz	QPSK	38175	75RB#0	20000~27000	-32.23	PASS
Band38	15MHz	16QAM	37825	75RB#0	0.009~0.15	-69.33	PASS
Band38	15MHz	16QAM	37825	75RB#0	0.15~30	-62.09	PASS
Band38	15MHz	16QAM	37825	75RB#0	30~1000	-61.58	PASS
Band38	15MHz	16QAM	37825	75RB#0	1000~20000	-38.18	PASS

Band38	15MHz	16QAM	37825	75RB#0	20000~27000	-31.99	PASS
Band38	15MHz	16QAM	38000	75RB#0	0.009~0.15	-67.82	PASS
Band38	15MHz	16QAM	38000	75RB#0	0.15~30	-62.84	PASS
Band38	15MHz	16QAM	38000	75RB#0	30~1000	-62.03	PASS
Band38	15MHz	16QAM	38000	75RB#0	1000~20000	-38.84	PASS
Band38	15MHz	16QAM	38000	75RB#0	20000~27000	-31.88	PASS
Band38	15MHz	16QAM	38175	75RB#0	0.009~0.15	-67.91	PASS
Band38	15MHz	16QAM	38175	75RB#0	0.15~30	-63.17	PASS
Band38	15MHz	16QAM	38175	75RB#0	30~1000	-61.40	PASS
Band38	15MHz	16QAM	38175	75RB#0	1000~20000	-38.57	PASS
Band38	15MHz	16QAM	38175	75RB#0	20000~27000	-32.08	PASS
Band38	20MHz	QPSK	37850	100RB#0	0.009~0.15	-67.58	PASS
Band38	20MHz	QPSK	37850	100RB#0	0.15~30	-60.65	PASS
Band38	20MHz	QPSK	37850	100RB#0	30~1000	-61.82	PASS
Band38	20MHz	QPSK	37850	100RB#0	1000~20000	-38.65	PASS
Band38	20MHz	QPSK	37850	100RB#0	20000~27000	-32.20	PASS
Band38	20MHz	QPSK	38000	100RB#0	0.009~0.15	-68.97	PASS
Band38	20MHz	QPSK	38000	100RB#0	0.15~30	-63.89	PASS
Band38	20MHz	QPSK	38000	100RB#0	30~1000	-61.61	PASS
Band38	20MHz	QPSK	38000	100RB#0	1000~20000	-38.27	PASS
Band38	20MHz	QPSK	38000	100RB#0	20000~27000	-32.15	PASS
Band38	20MHz	QPSK	38150	100RB#0	0.009~0.15	-68.27	PASS
Band38	20MHz	QPSK	38150	100RB#0	0.15~30	-61.50	PASS
Band38	20MHz	QPSK	38150	100RB#0	30~1000	-61.94	PASS
Band38	20MHz	QPSK	38150	100RB#0	1000~20000	-38.47	PASS
Band38	20MHz	QPSK	38150	100RB#0	20000~27000	-32.10	PASS
Band38	20MHz	16QAM	37850	100RB#0	0.009~0.15	-67.77	PASS
Band38	20MHz	16QAM	37850	100RB#0	0.15~30	-63.22	PASS
Band38	20MHz	16QAM	37850	100RB#0	30~1000	-61.83	PASS
Band38	20MHz	16QAM	37850	100RB#0	1000~20000	-38.72	PASS
Band38	20MHz	16QAM	37850	100RB#0	20000~27000	-32.15	PASS
Band38	20MHz	16QAM	38000	100RB#0	0.009~0.15	-67.96	PASS
Band38	20MHz	16QAM	38000	100RB#0	0.15~30	-59.57	PASS
Band38	20MHz	16QAM	38000	100RB#0	30~1000	-61.58	PASS
Band38	20MHz	16QAM	38000	100RB#0	1000~20000	-38.08	PASS
Band38	20MHz	16QAM	38000	100RB#0	20000~27000	-32.42	PASS
Band38	20MHz	16QAM	38150	100RB#0	0.009~0.15	-66.26	PASS
Band38	20MHz	16QAM	38150	100RB#0	0.15~30	-62.82	PASS
Band38	20MHz	16QAM	38150	100RB#0	30~1000	-61.93	PASS
Band38	20MHz	16QAM	38150	100RB#0	1000~20000	-38.71	PASS
Band38	20MHz	16QAM	38150	100RB#0	20000~27000	-32.35	PASS