

LTE-Cat M1 Band5 Test Data

General Description of EUT	
Product Name:	SILO-HW-CELL
Test Model:	SILO-FILL-CELL
Sample No.:	HC-C-202312-0122-01-01-2#
Standard:	47 CFR Part 2, 22(H) RSS-Gen Issue 5 RSS-132 Issue 4
Environmental Conditions	
Temperature:	23.8℃
Relative Humidity:	48%
Test Voltage:	DC 4.5V
Test Engineer:	Rick.chen
Note: For a more detailed features description, please refer to the report TBR-C-202312-0122-66 . The report only show the worst casa data.	

Contents

LTE-Cat M1 Band5 Test Data	1
1: Conducted Output Power Data for M1	3
Test Result	3
2: Peak-to-Average Ratio(CCDF) for M1	5
Test Result	5
Test Graphs	6
3: 26dB Bandwidth and Occupied Bandwidth for M1	14
Test Result	14
Test Graphs	15
4: Band Edge for M1	19
Test Result	19
Test Graphs	20
5: Conducted Spurious Emission for M1	26
Test Result	26
Test Graphs	29
6: Frequency Stability for M1	45
Test Result	45

1: Conducted Output Power Data for M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result (dBm)	Limit	Verdict
Band5	1.4MHz	QPSK	20407	1	0	Low	18.35	34.77	PASS
Band5	1.4MHz	16QAM	20407	1	0	Low	18.35	34.77	PASS
Band5	1.4MHz	QPSK	20407	1	5	Low	18.34	34.77	PASS
Band5	1.4MHz	16QAM	20407	1	5	Low	18.34	34.77	PASS
Band5	1.4MHz	QPSK	20407	6	0	Low	18.34	34.77	PASS
Band5	1.4MHz	16QAM	20407	6	0	Low	18.34	34.77	PASS
Band5	1.4MHz	QPSK	20525	1	0	Low	18.20	34.77	PASS
Band5	1.4MHz	16QAM	20525	1	0	Low	18.29	34.77	PASS
Band5	1.4MHz	QPSK	20525	1	5	Low	18.40	34.77	PASS
Band5	1.4MHz	16QAM	20525	1	5	Low	18.28	34.77	PASS
Band5	1.4MHz	QPSK	20525	6	0	Low	18.28	34.77	PASS
Band5	1.4MHz	16QAM	20525	6	0	Low	18.28	34.77	PASS
Band5	1.4MHz	QPSK	20643	1	0	High	18.16	34.77	PASS
Band5	1.4MHz	16QAM	20643	1	0	High	18.21	34.77	PASS
Band5	1.4MHz	QPSK	20643	1	5	High	18.31	34.77	PASS
Band5	1.4MHz	16QAM	20643	1	5	High	18.30	34.77	PASS
Band5	1.4MHz	QPSK	20643	6	0	High	18.29	34.77	PASS
Band5	1.4MHz	16QAM	20643	6	0	High	18.29	34.77	PASS
Band5	3MHz	QPSK	20415	1	0	Low	18.14	34.77	PASS
Band5	3MHz	16QAM	20415	1	0	Low	18.25	34.77	PASS
Band5	3MHz	QPSK	20415	1	5	Low	18.14	34.77	PASS
Band5	3MHz	16QAM	20415	1	5	Low	18.14	34.77	PASS
Band5	3MHz	QPSK	20415	6	0	Low	18.13	34.77	PASS
Band5	3MHz	16QAM	20415	6	0	Low	18.13	34.77	PASS
Band5	3MHz	QPSK	20525	1	0	Low	18.30	34.77	PASS
Band5	3MHz	16QAM	20525	1	0	Low	18.19	34.77	PASS
Band5	3MHz	QPSK	20525	1	5	Low	18.28	34.77	PASS
Band5	3MHz	16QAM	20525	1	5	Low	18.18	34.77	PASS
Band5	3MHz	QPSK	20525	6	0	Low	18.28	34.77	PASS
Band5	3MHz	16QAM	20525	6	0	Low	18.28	34.77	PASS
Band5	3MHz	QPSK	20635	1	0	High	18.23	34.77	PASS
Band5	3MHz	16QAM	20635	1	0	High	18.22	34.77	PASS
Band5	3MHz	QPSK	20635	1	5	High	18.03	34.77	PASS
Band5	3MHz	16QAM	20635	1	5	High	18.21	34.77	PASS
Band5	3MHz	QPSK	20635	6	0	High	18.21	34.77	PASS
Band5	3MHz	16QAM	20635	6	0	High	18.12	34.77	PASS
Band5	5MHz	QPSK	20425	1	0	Low	19.24	34.77	PASS
Band5	5MHz	16QAM	20425	1	0	Low	19.24	34.77	PASS
Band5	5MHz	QPSK	20425	1	5	Low	19.24	34.77	PASS
Band5	5MHz	16QAM	20425	1	5	Low	19.24	34.77	PASS
Band5	5MHz	QPSK	20425	6	0	Low	19.24	34.77	PASS
Band5	5MHz	16QAM	20425	6	0	Low	19.23	34.77	PASS
Band5	5MHz	QPSK	20525	1	0	Low	19.22	34.77	PASS
Band5	5MHz	16QAM	20525	1	0	Low	19.29	34.77	PASS
Band5	5MHz	QPSK	20525	1	5	Low	19.29	34.77	PASS
Band5	5MHz	16QAM	20525	1	5	Low	19.28	34.77	PASS
Band5	5MHz	QPSK	20525	6	0	Low	19.28	34.77	PASS
Band5	5MHz	16QAM	20525	6	0	Low	19.28	34.77	PASS
Band5	5MHz	QPSK	20625	1	0	High	19.04	34.77	PASS
Band5	5MHz	16QAM	20625	1	0	High	19.21	34.77	PASS
Band5	5MHz	QPSK	20625	1	5	High	19.20	34.77	PASS
Band5	5MHz	16QAM	20625	1	5	High	19.20	34.77	PASS
Band5	5MHz	QPSK	20625	6	0	High	19.20	34.77	PASS
Band5	5MHz	16QAM	20625	6	0	High	19.20	34.77	PASS
Band5	10MHz	QPSK	20450	1	0	Low	19.18	34.77	PASS
Band5	10MHz	16QAM	20450	1	0	Low	19.17	34.77	PASS
Band5	10MHz	QPSK	20450	1	5	Low	19.16	34.77	PASS
Band5	10MHz	16QAM	20450	1	5	Low	19.16	34.77	PASS
Band5	10MHz	QPSK	20450	6	0	Low	19.15	34.77	PASS
Band5	10MHz	16QAM	20450	6	0	Low	19.14	34.77	PASS

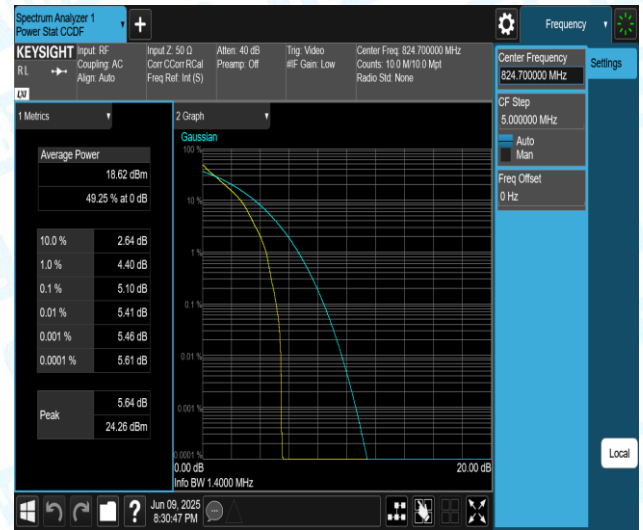
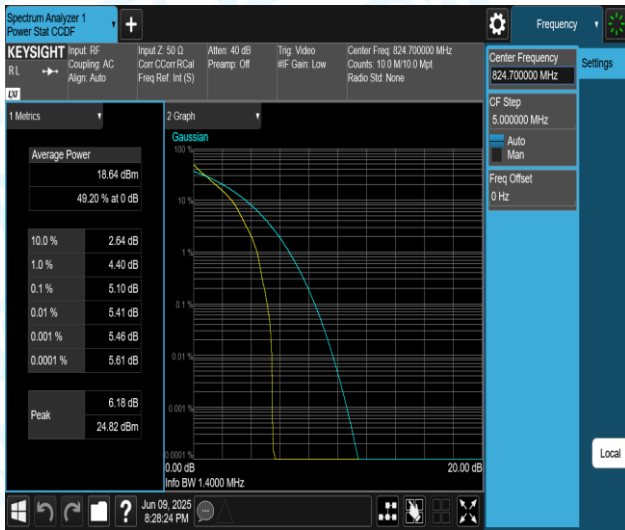
Band5	10MHz	QPSK	20525	1	0	Low	19.15	34.77	PASS
Band5	10MHz	16QAM	20525	1	0	Low	19.16	34.77	PASS
Band5	10MHz	QPSK	20525	1	5	Low	19.31	34.77	PASS
Band5	10MHz	16QAM	20525	1	5	Low	19.11	34.77	PASS
Band5	10MHz	QPSK	20525	6	0	Low	19.30	34.77	PASS
Band5	10MHz	16QAM	20525	6	0	Low	19.10	34.77	PASS
Band5	10MHz	QPSK	20600	1	0	High	19.10	34.77	PASS
Band5	10MHz	16QAM	20600	1	0	High	19.15	34.77	PASS
Band5	10MHz	QPSK	20600	1	5	High	19.15	34.77	PASS
Band5	10MHz	16QAM	20600	1	5	High	19.14	34.77	PASS
Band5	10MHz	QPSK	20600	6	0	High	19.14	34.77	PASS
Band5	10MHz	16QAM	20600	6	0	High	19.13	34.77	PASS

2: Peak-to-Average Ratio(CCDF) for M1

Test Result

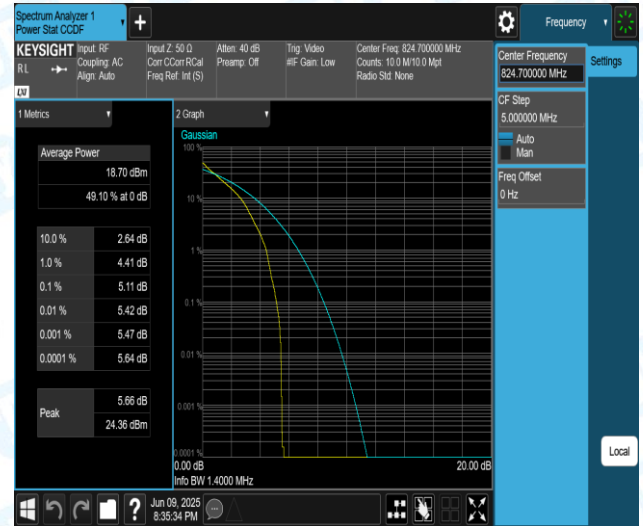
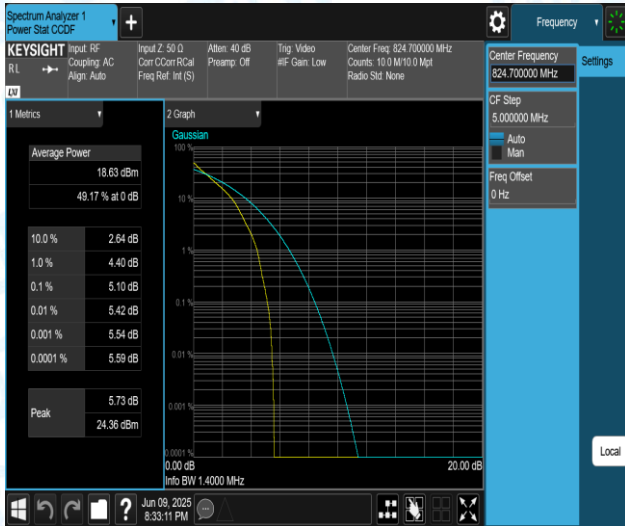
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	20407	QPSK	1	0	Low	5.10	<=13	PASS
Band5	1.4MHz	20407	16QAM	1	0	Low	5.10	<=13	PASS
Band5	1.4MHz	20407	QPSK	6	0	Low	5.10	<=13	PASS
Band5	1.4MHz	20407	16QAM	6	0	Low	5.11	<=13	PASS
Band5	1.4MHz	20525	QPSK	1	0	Low	4.93	<=13	PASS
Band5	1.4MHz	20525	16QAM	1	0	Low	4.92	<=13	PASS
Band5	1.4MHz	20525	QPSK	6	0	Low	4.92	<=13	PASS
Band5	1.4MHz	20525	16QAM	6	0	Low	4.93	<=13	PASS
Band5	1.4MHz	20643	QPSK	1	0	High	5.16	<=13	PASS
Band5	1.4MHz	20643	16QAM	1	0	High	5.18	<=13	PASS
Band5	1.4MHz	20643	QPSK	6	0	High	5.16	<=13	PASS
Band5	1.4MHz	20643	16QAM	6	0	High	5.17	<=13	PASS
Band5	3MHz	20415	QPSK	1	0	Low	5.12	<=13	PASS
Band5	3MHz	20415	16QAM	1	0	Low	5.13	<=13	PASS
Band5	3MHz	20415	QPSK	6	0	Low	5.13	<=13	PASS
Band5	3MHz	20415	16QAM	6	0	Low	5.14	<=13	PASS
Band5	3MHz	20525	QPSK	1	0	Low	4.99	<=13	PASS
Band5	3MHz	20525	16QAM	1	0	Low	4.95	<=13	PASS
Band5	3MHz	20525	QPSK	6	0	Low	4.96	<=13	PASS
Band5	3MHz	20525	16QAM	6	0	Low	4.96	<=13	PASS
Band5	3MHz	20635	QPSK	1	0	High	5.12	<=13	PASS
Band5	3MHz	20635	16QAM	1	0	High	5.12	<=13	PASS
Band5	3MHz	20635	QPSK	6	0	High	5.10	<=13	PASS
Band5	3MHz	20635	16QAM	6	0	High	5.13	<=13	PASS
Band5	5MHz	20425	QPSK	1	0	Low	4.75	<=13	PASS
Band5	5MHz	20425	16QAM	1	0	Low	4.73	<=13	PASS
Band5	5MHz	20425	QPSK	6	0	Low	4.74	<=13	PASS
Band5	5MHz	20425	16QAM	6	0	Low	4.74	<=13	PASS
Band5	5MHz	20525	QPSK	1	0	Low	4.69	<=13	PASS
Band5	5MHz	20525	16QAM	1	0	Low	4.71	<=13	PASS
Band5	5MHz	20525	QPSK	6	0	Low	4.69	<=13	PASS
Band5	5MHz	20525	16QAM	6	0	Low	4.73	<=13	PASS
Band5	5MHz	20625	QPSK	1	0	High	5.06	<=13	PASS
Band5	5MHz	20625	16QAM	1	0	High	5.10	<=13	PASS
Band5	5MHz	20625	QPSK	6	0	High	5.11	<=13	PASS
Band5	5MHz	20625	16QAM	6	0	High	5.10	<=13	PASS
Band5	10MHz	20450	QPSK	1	0	Low	4.86	<=13	PASS
Band5	10MHz	20450	16QAM	1	0	Low	4.86	<=13	PASS
Band5	10MHz	20450	QPSK	6	0	Low	4.85	<=13	PASS
Band5	10MHz	20450	16QAM	6	0	Low	4.84	<=13	PASS
Band5	10MHz	20525	QPSK	1	0	Low	4.79	<=13	PASS
Band5	10MHz	20525	16QAM	1	0	Low	4.81	<=13	PASS
Band5	10MHz	20525	QPSK	6	0	Low	4.76	<=13	PASS
Band5	10MHz	20525	16QAM	6	0	Low	4.73	<=13	PASS
Band5	10MHz	20600	QPSK	1	0	High	4.93	<=13	PASS
Band5	10MHz	20600	16QAM	1	0	High	4.96	<=13	PASS
Band5	10MHz	20600	QPSK	6	0	High	4.95	<=13	PASS
Band5	10MHz	20600	16QAM	6	0	High	4.97	<=13	PASS

Test Graphs



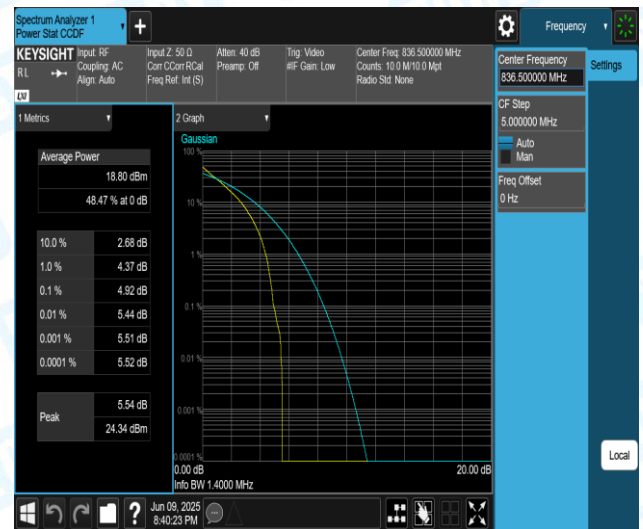
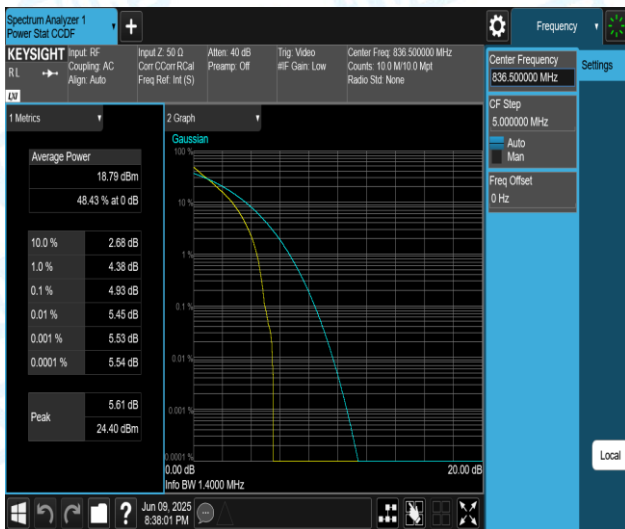
Band 5 - 1.4 MHz - QPSK - 20407 - PASS

Band 5 - 1.4 MHz - 16QAM - 20407 - PASS



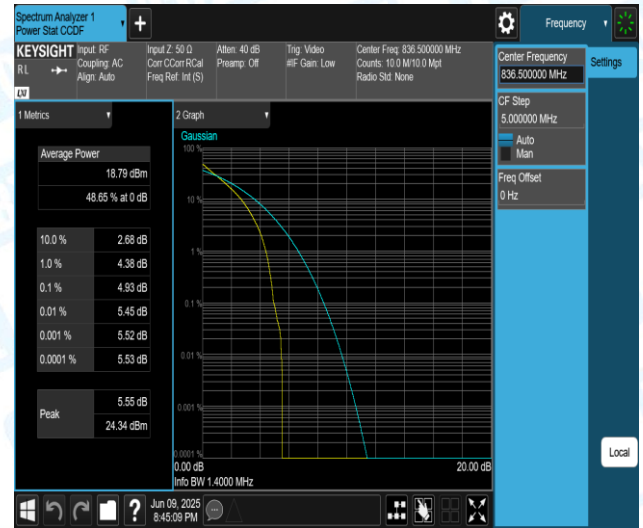
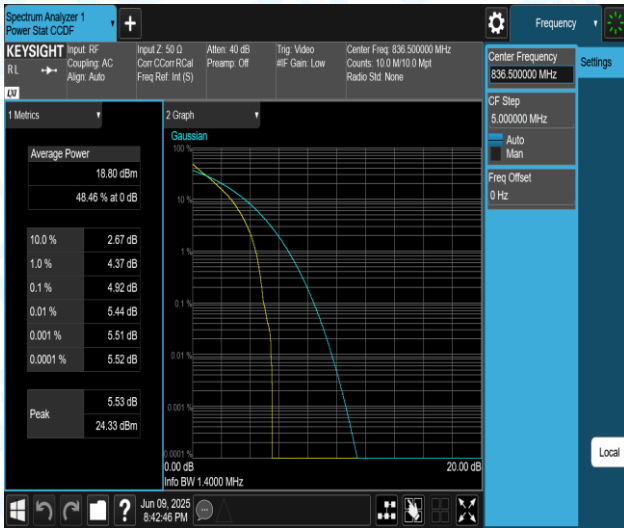
Band 5 - 1.4 MHz - QPSK - 20407 - PASS

Band 5 - 1.4 MHz - 16QAM - 20407 - PASS



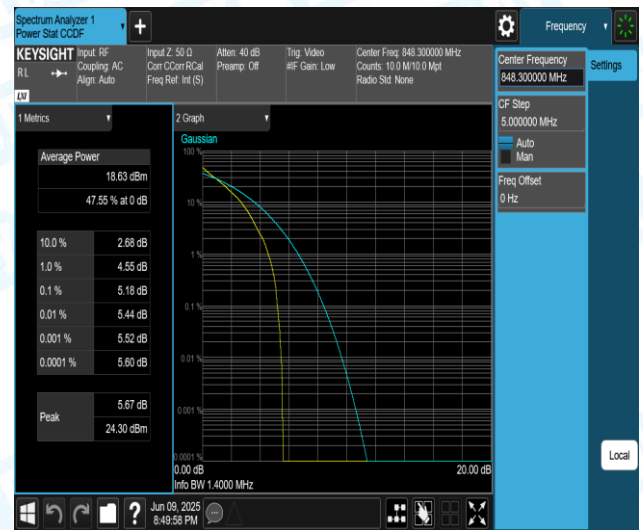
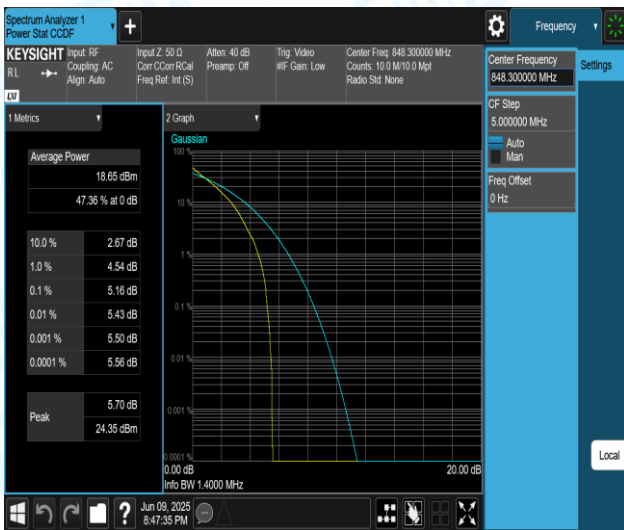
Band 5 - 1.4 MHz - QPSK - 20525 - PASS

Band 5 - 1.4 MHz - 16QAM - 20525 - PASS



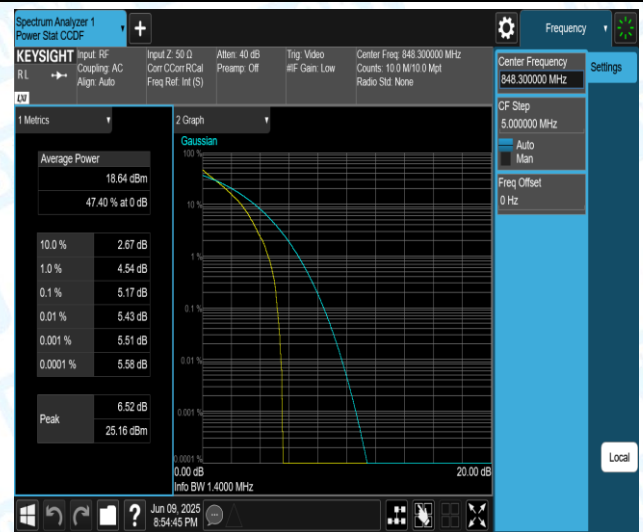
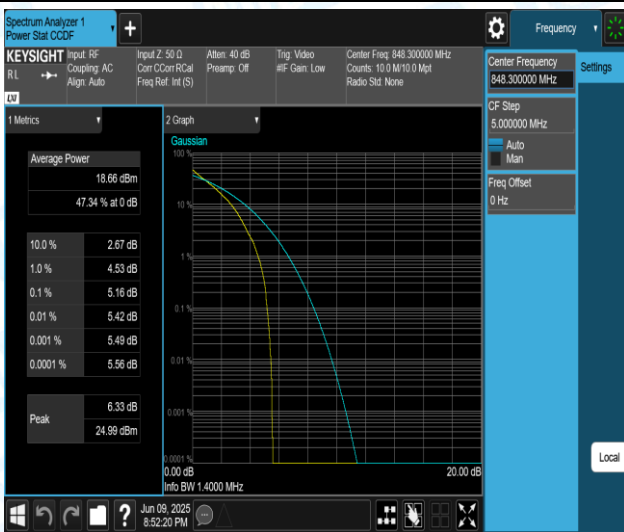
Band 5 - 1.4 MHz - QPSK - 20525 - PASS

Band 5 - 1.4 MHz - 16QAM - 20525 - PASS



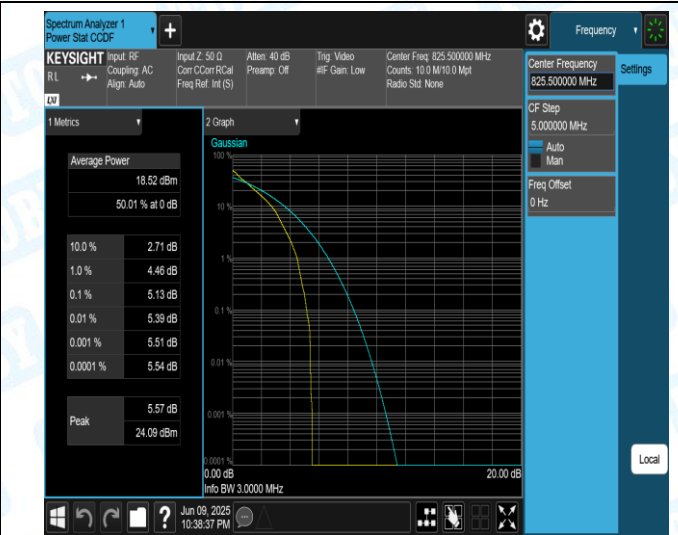
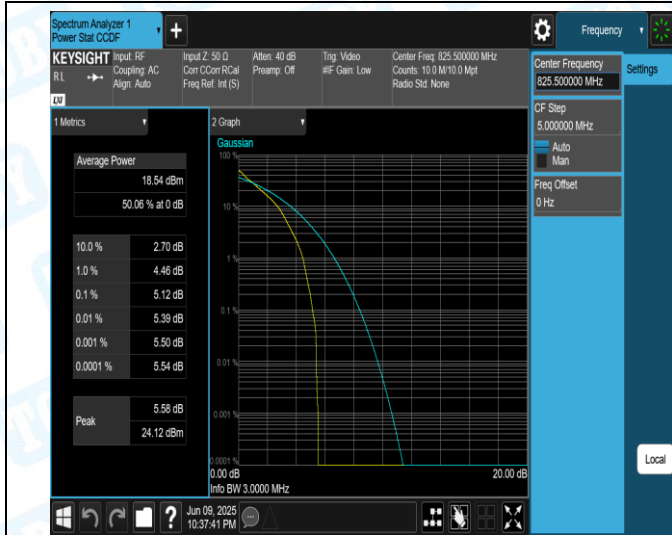
Band 5 - 1.4 MHz - QPSK - 20643 - PASS

Band 5 - 1.4 MHz - 16QAM - 20643 - PASS



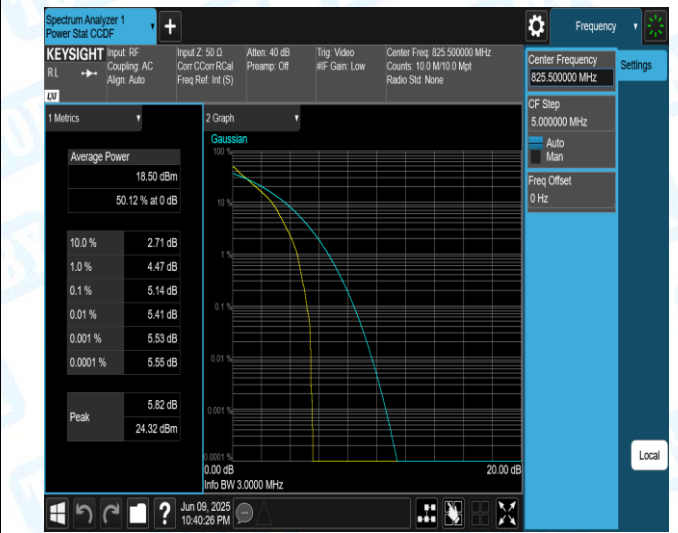
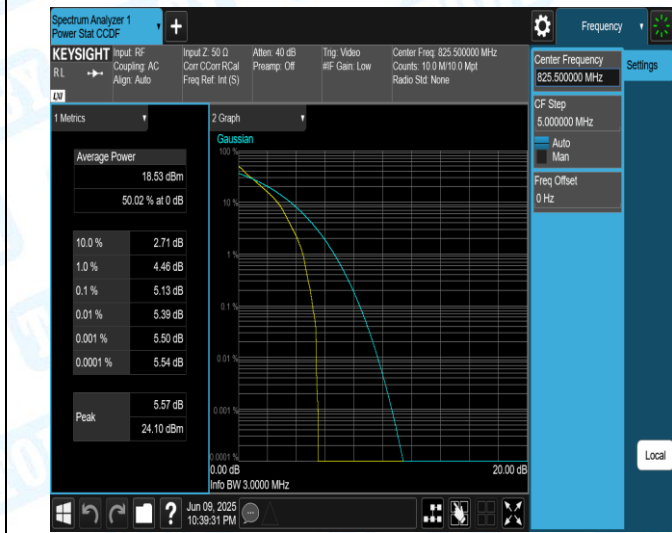
Band 5 - 1.4 MHz - QPSK - 20643 - PASS

Band 5 - 1.4 MHz - 16QAM - 20643 - PASS



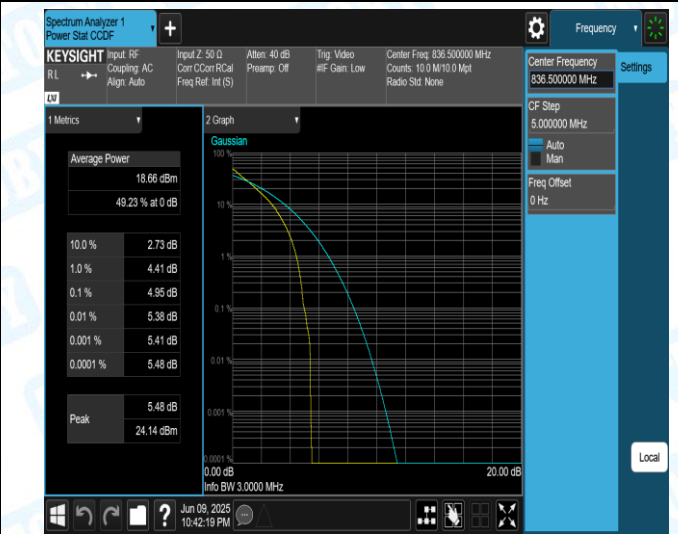
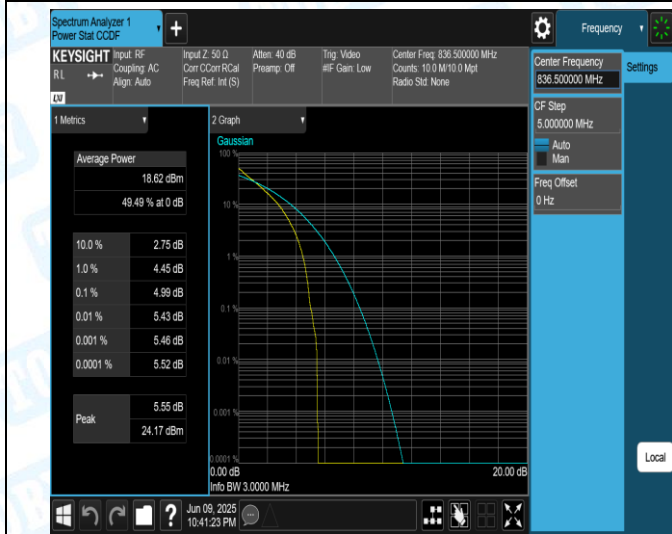
B a n d 5 - 3 M H z - Q P S K - 2 0 4 1 5 - P A S S

B a n d 5 - 3 M H z - 1 6 Q A M - 2 0 4 1 5 - P A S S



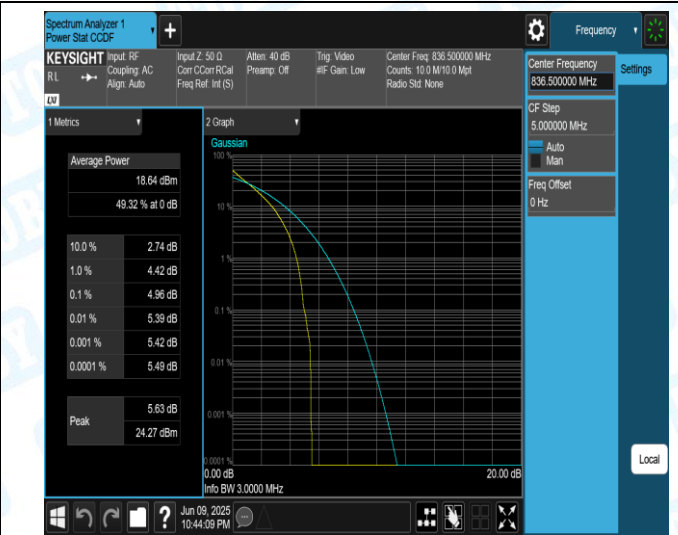
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B a n d 5 - 3 M H z - 1 6 Q A M - 2 0 4 1 5 - P A S S



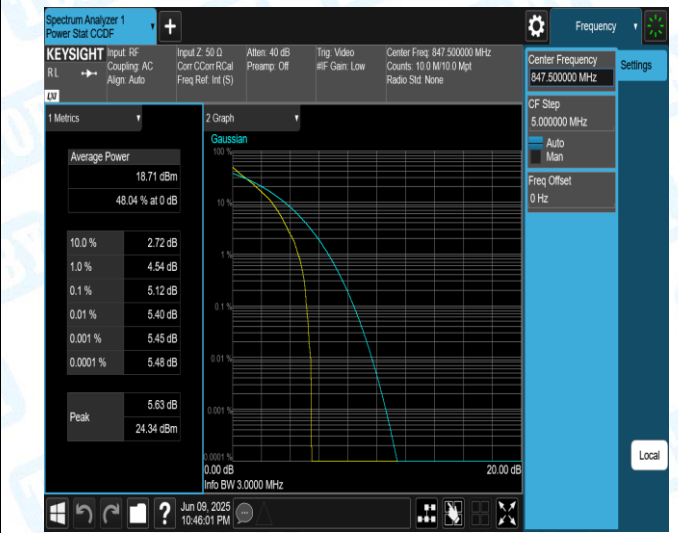
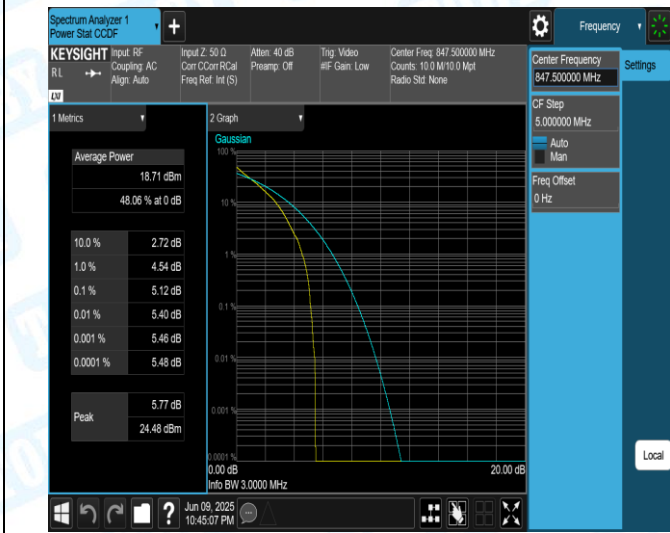
B a n d 5 - 3 M H z - Q P S K - 2 0 5 2 5 - P A S S

B a n d 5 - 3 M H z - 1 6 Q A M - 2 0 5 2 5 - P A S S



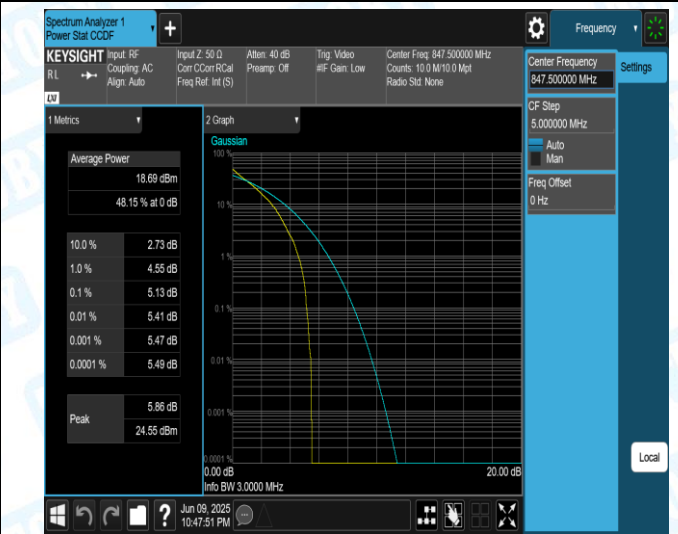
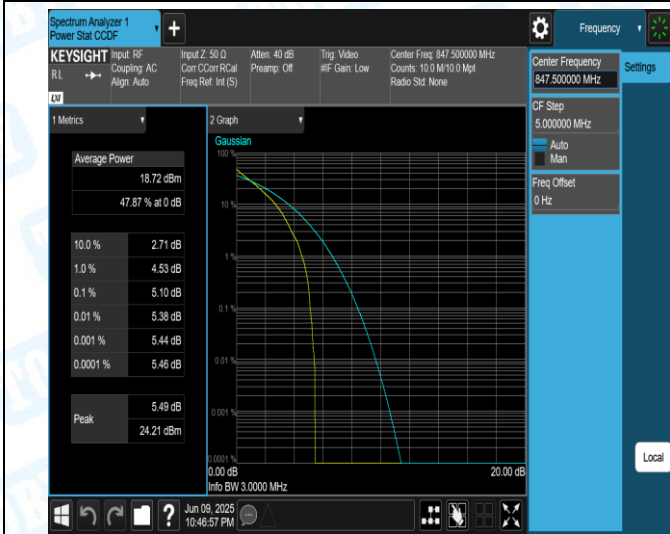
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B a n d 5 - 3 M H z - 1 6 Q A M - 2 0 5 2 5 - P A S S



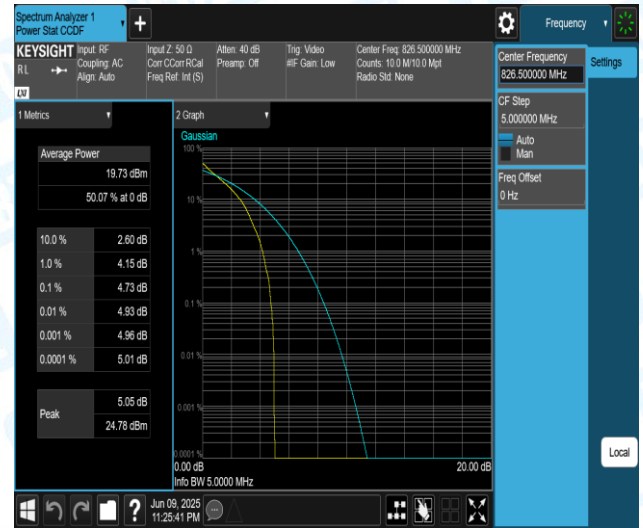
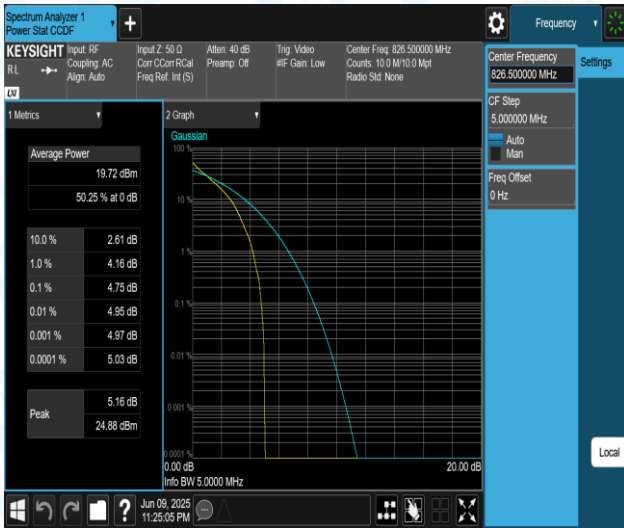
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B a n d 5 - 3 M H z - 1 6 Q A M - 2 0 6 3 5 - P A S S



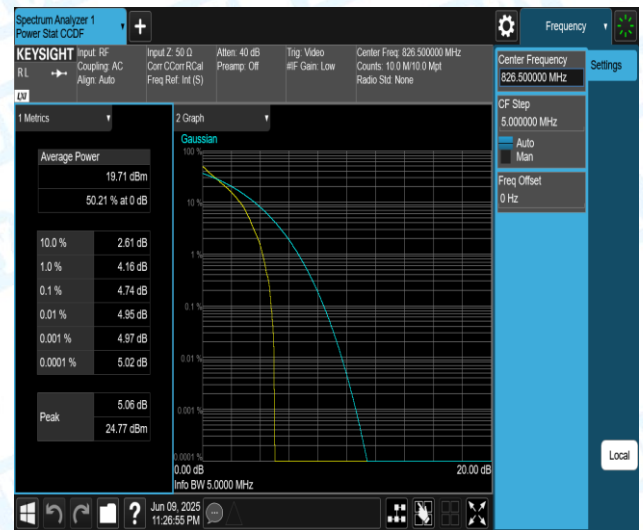
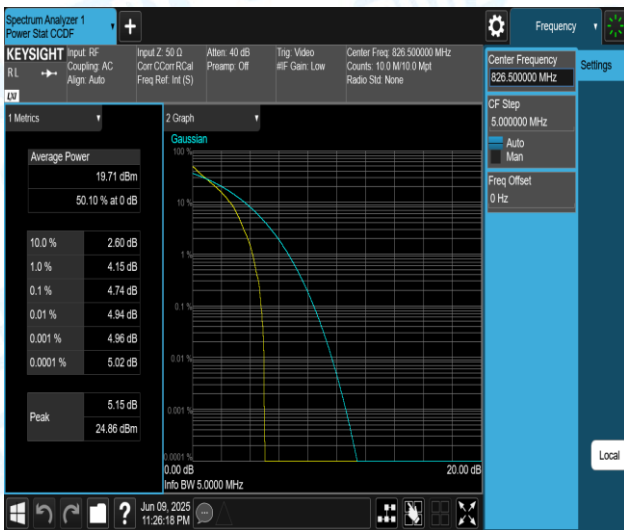
B a n d 5 - 3 M H z - Q P S K - 2 0 6 3 5 - P A S S

B a n d 5 - 3 M H z - 1 6 Q A M - 2 0 6 3 5 - P A S S



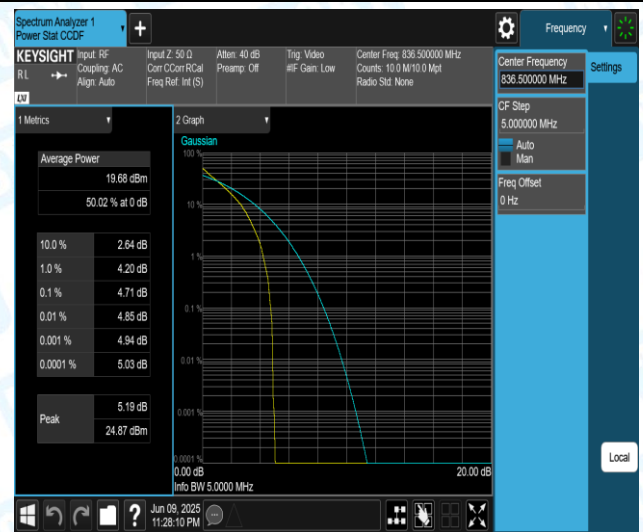
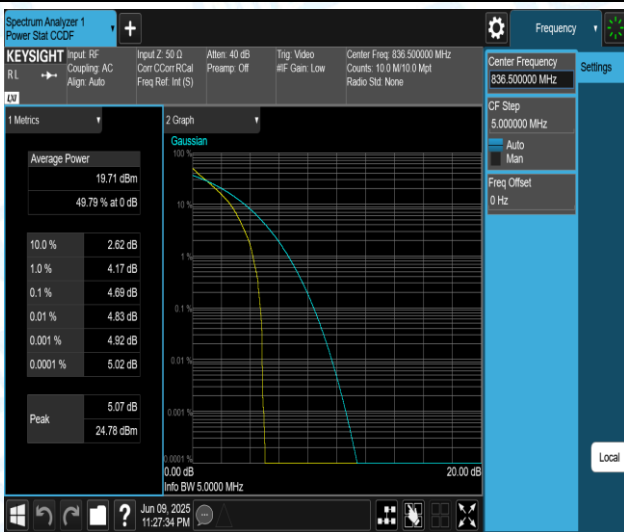
B a n d 5 - 5 M H z - Q P S K - 2 0 4 2 5 - P A S S

B a n d 5 - 5 M H z - 1 6 Q A M - 2 0 4 2 5 - P A S S



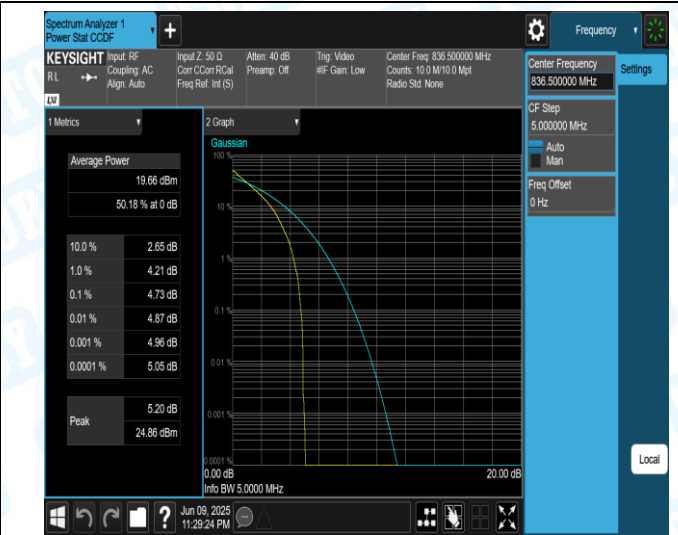
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B a n d 5 - 5 M H z - 1 6 Q A M - 2 0 4 2 5 - P A S S



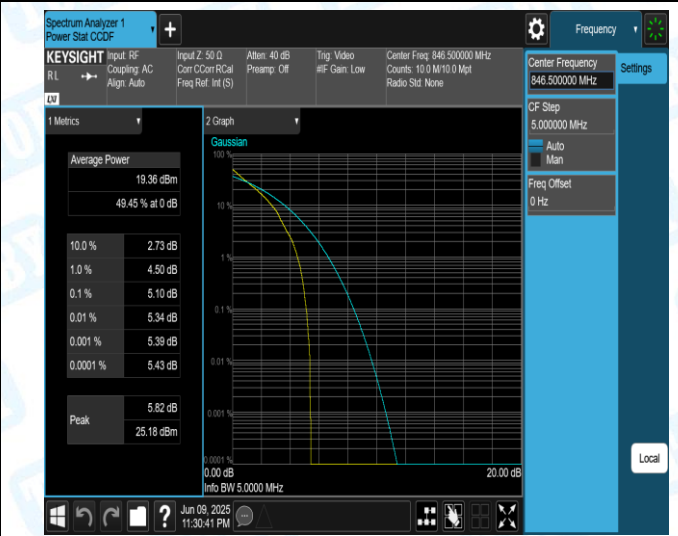
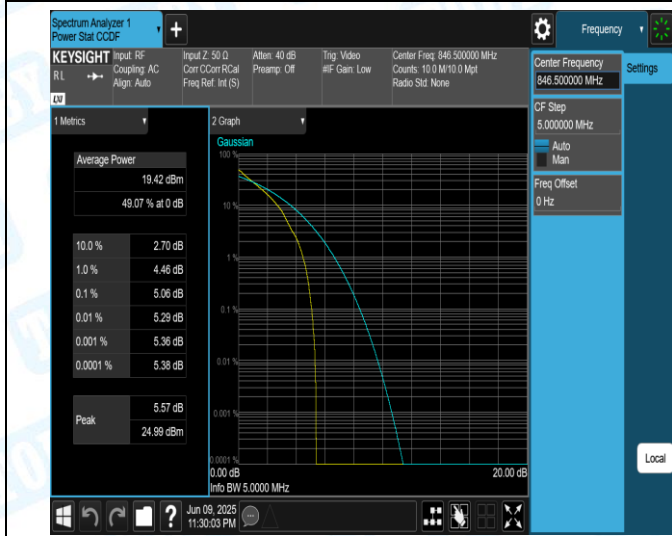
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B a n d 5 - 5 M H z - 1 6 Q A M - 2 0 5 2 5 - P A S S



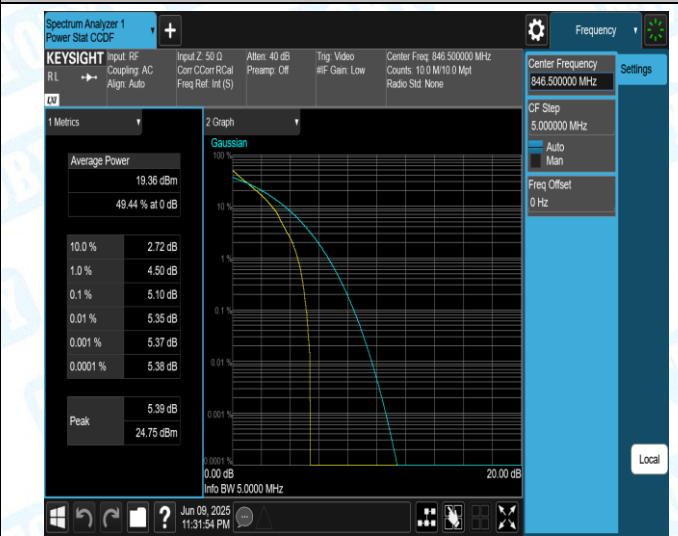
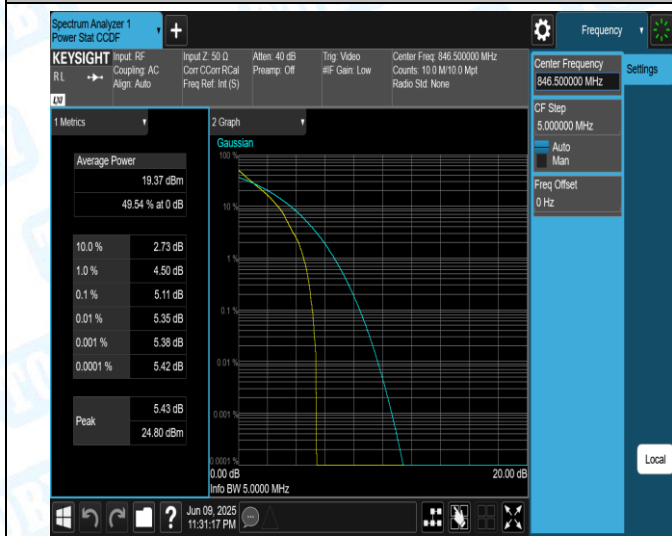
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B a n d 5 - 5 M H z - 1 6 Q A M - 2 0 5 2 5 - P A S S



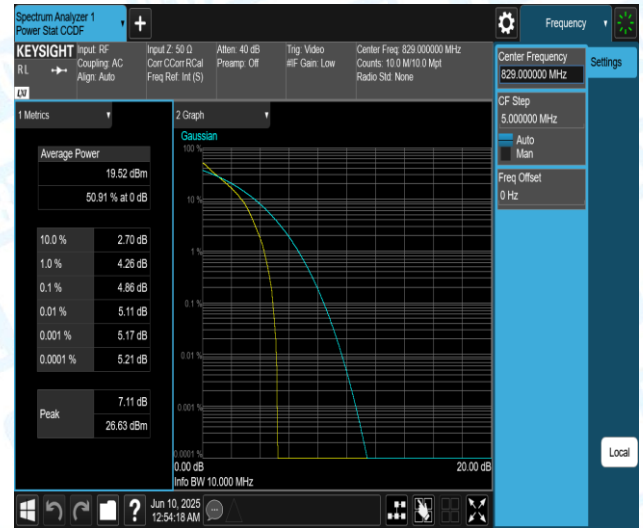
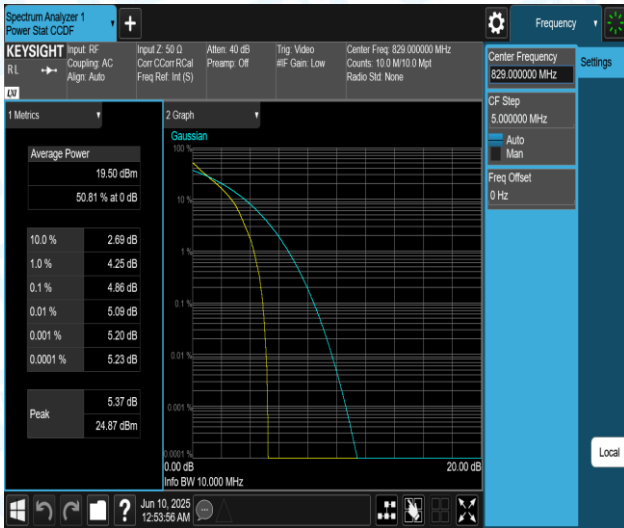
B a n d 5 - 5 M H z - Q P S K - 2 0 6 2 5 - P A S S

B a n d 5 - 5 M H z - 1 6 Q A M - 2 0 6 2 5 - P A S S



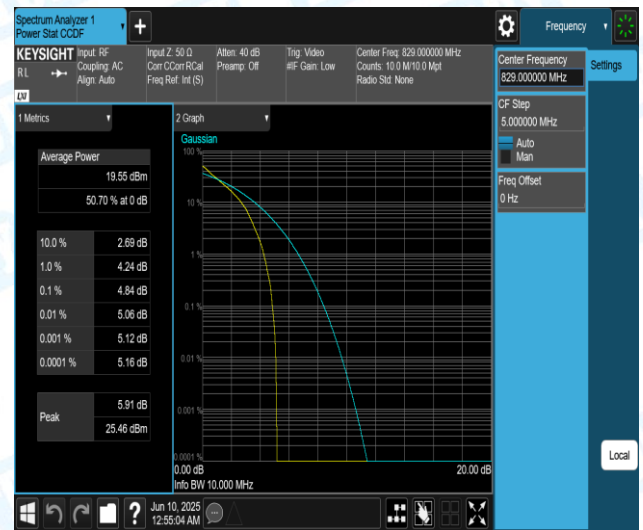
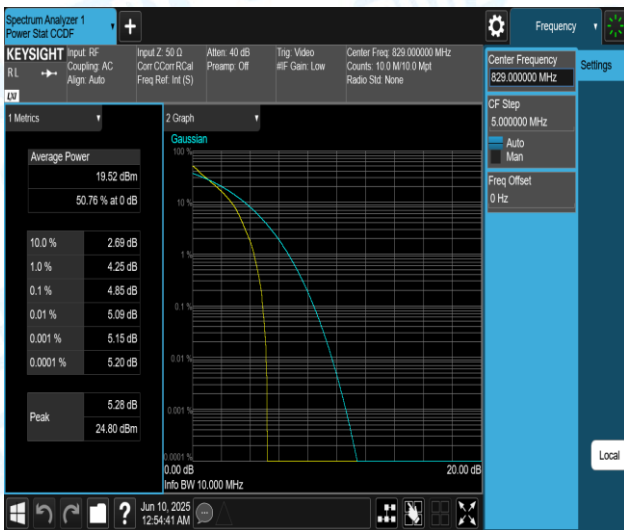
B a n d 5 - 5 M H z - Q P S K - 2 0 6 2 5 - P A S S

B a n d 5 - 5 M H z - 1 6 Q A M - 2 0 6 2 5 - P A S S



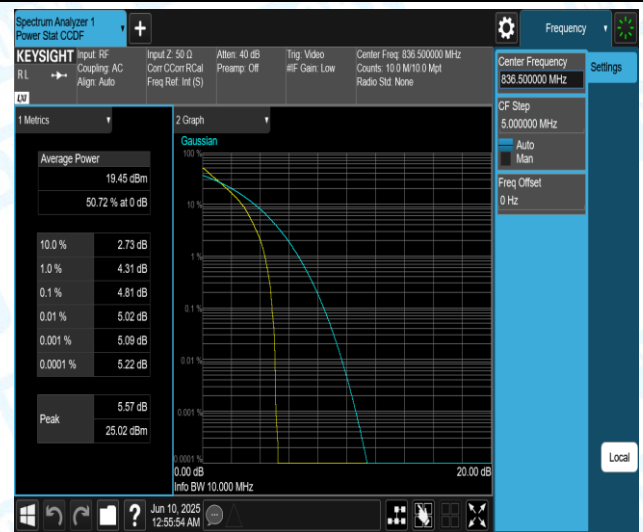
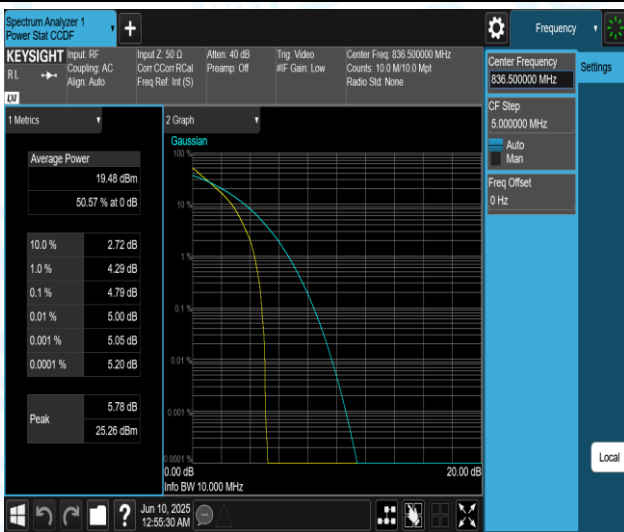
Band 5 - 10 MHz - QPSK - 20450 - PASS

Band 5 - 10 MHz - 16QAM - 20450 - PASS



Band 5 - 10 MHz - QPSK - 20450 - PASS

Band 5 - 10 MHz - 16QAM - 20450 - PASS



Band 5 - 10 MHz - QPSK - 20525 - PASS

Band 5 - 10 MHz - 16QAM - 20525 - PASS