

LTE Band 2_3M Spectrum Plot

1RB#0

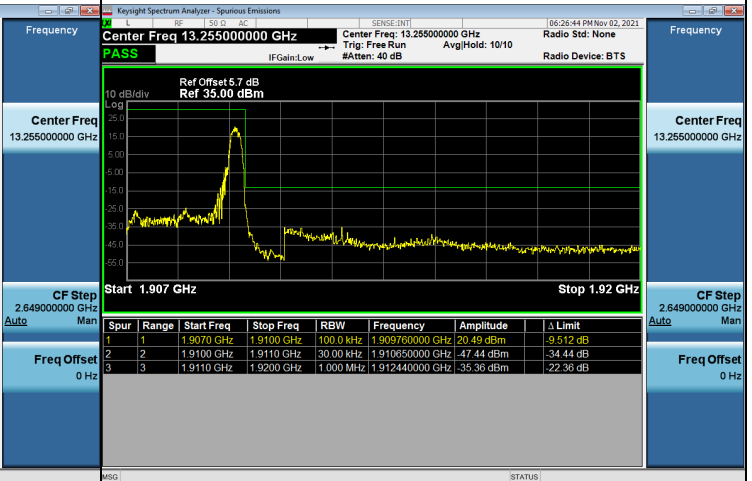
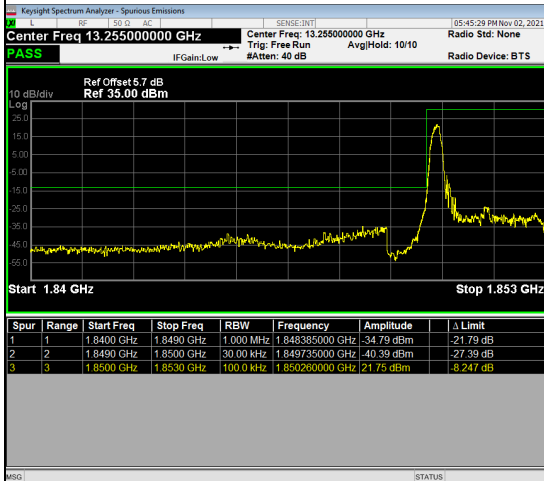
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Channel

18615

Channel

19185



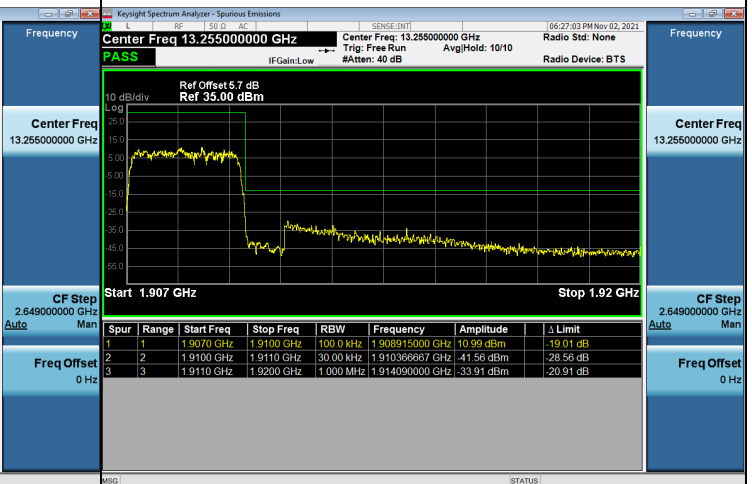
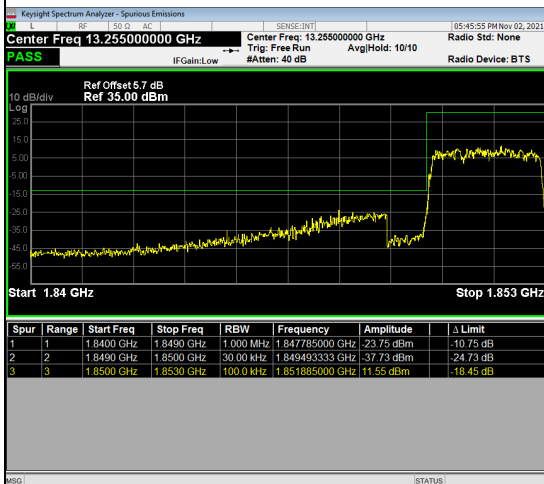
15RB#0

Channel

18615

Channel

19185



LTE Band 2_5M Spectrum Plot

1RB#0

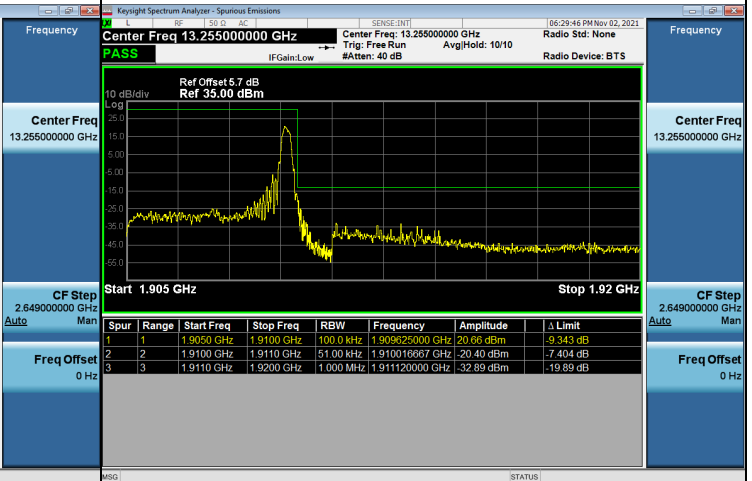
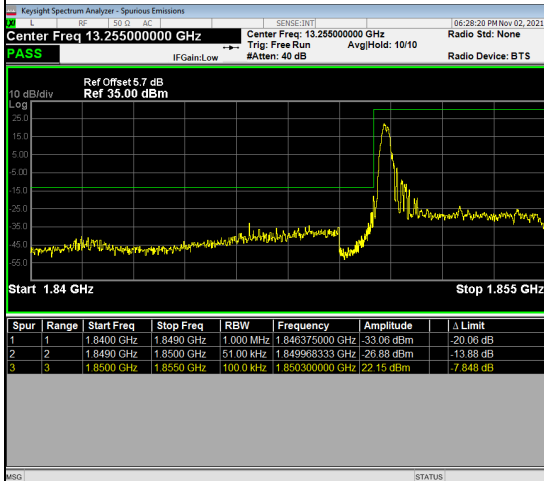
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Channel

18625

Channel

19175



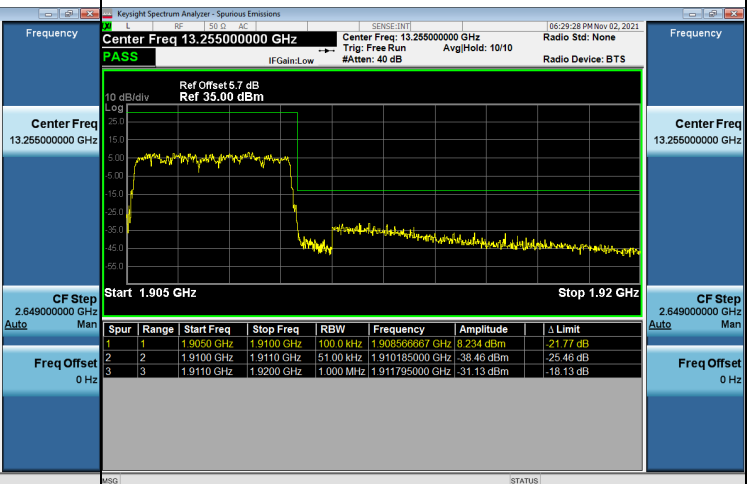
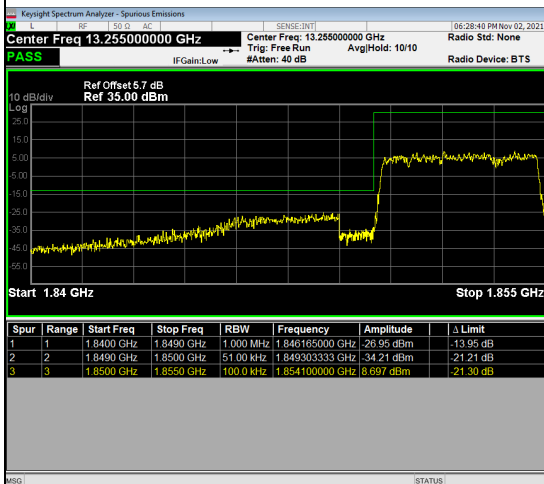
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Channel

18625

Channel

19175



LTE Band 2_10M Spectrum Plot

1RB#0

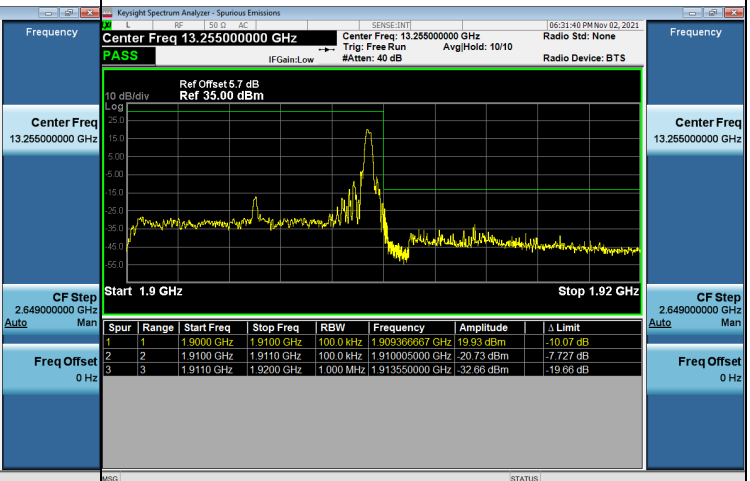
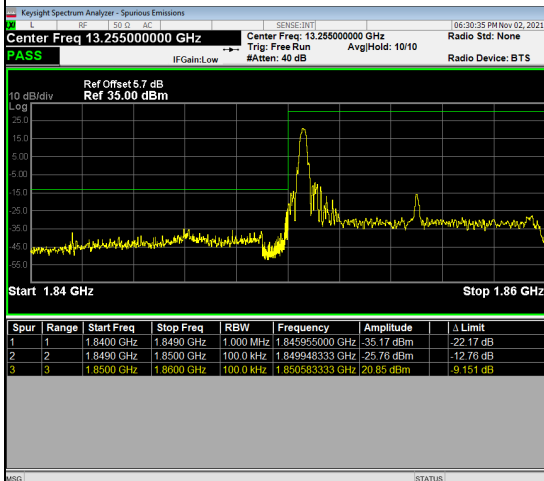
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Channel

18650

Channel

19150



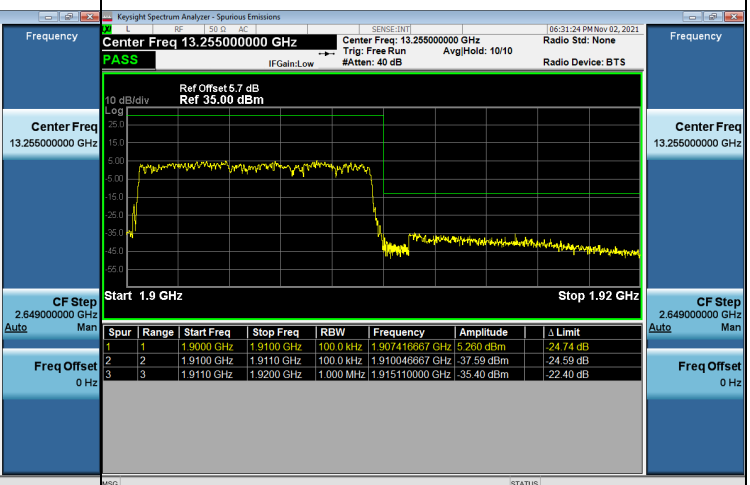
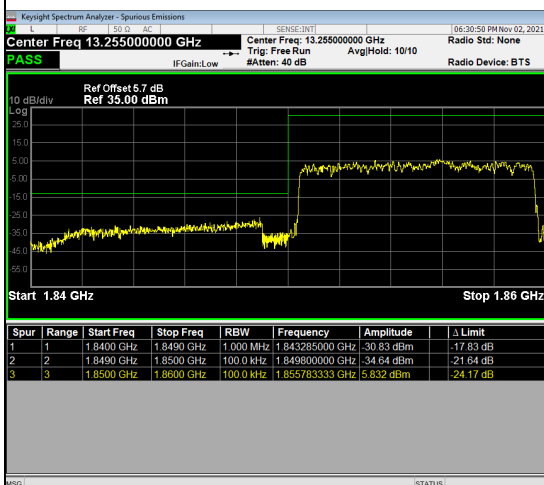
50RB#0

Channel

18650

Channel

19150



LTE Band 2_15M Spectrum Plot

1RB#0

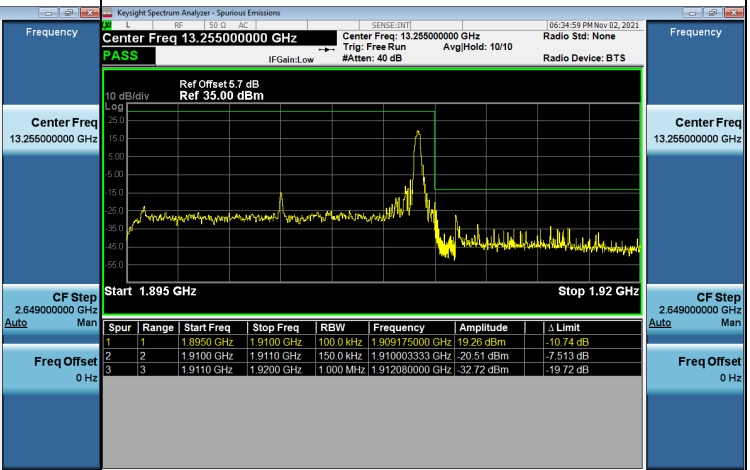
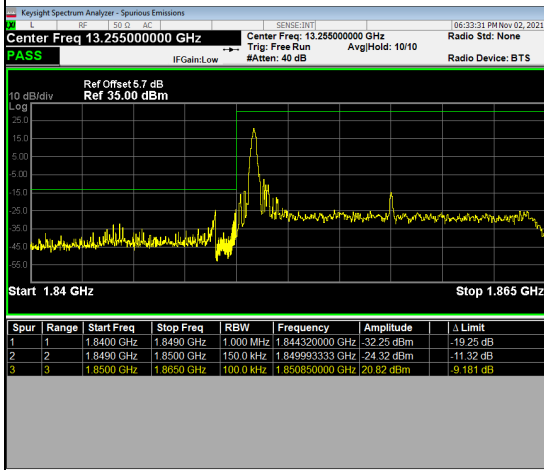
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Channel

18675

Channel

19125



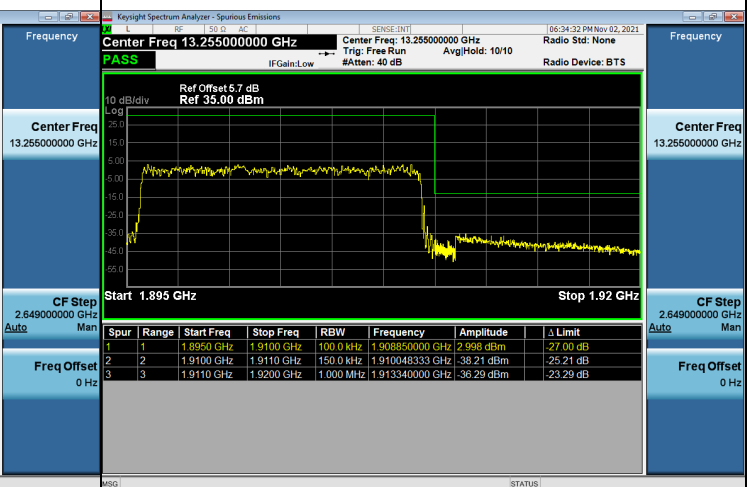
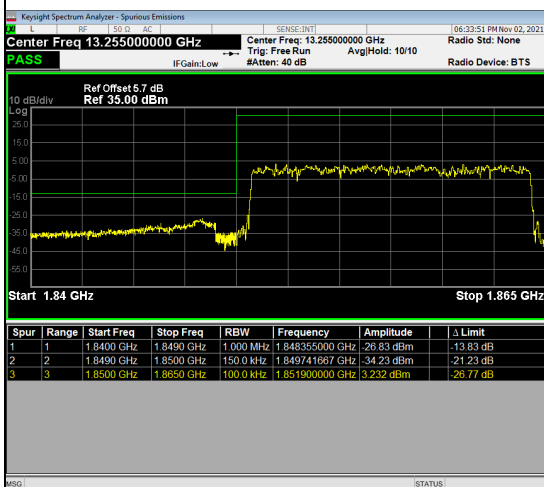
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Channel

18675

Channel

19125



LTE Band 2_20M Spectrum Plot

1RB#0

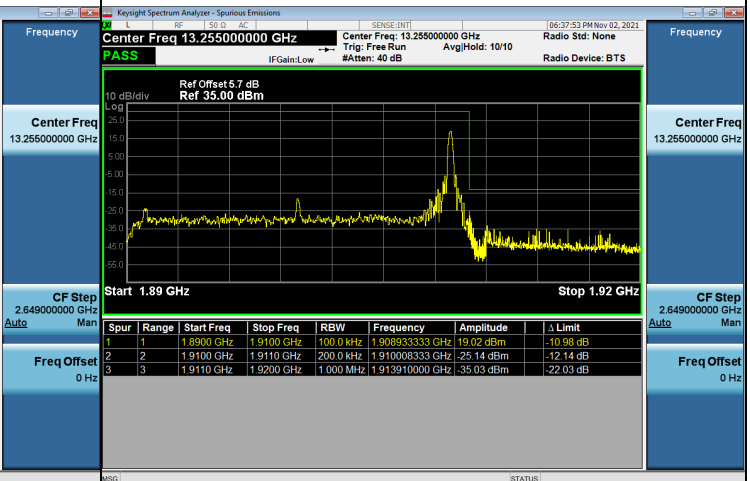
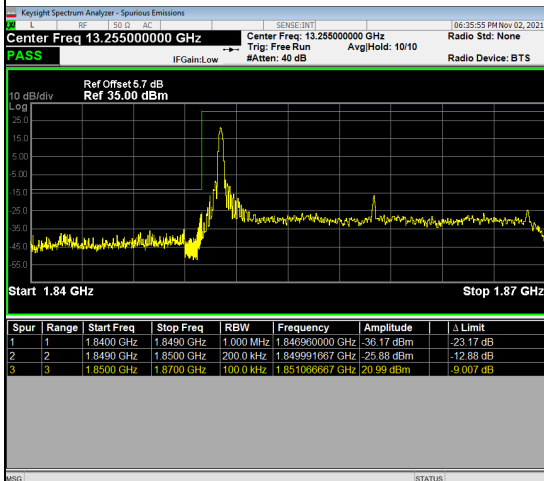
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Channel

18700

Channel

19100



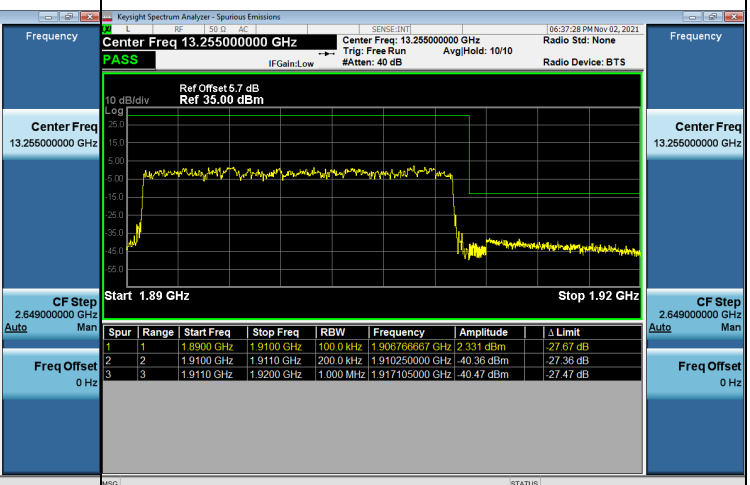
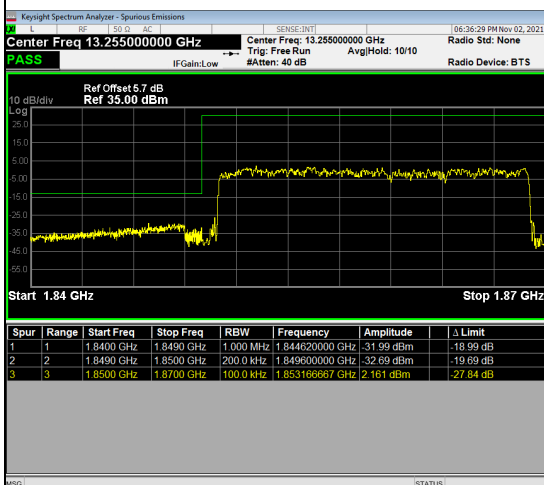
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Channel

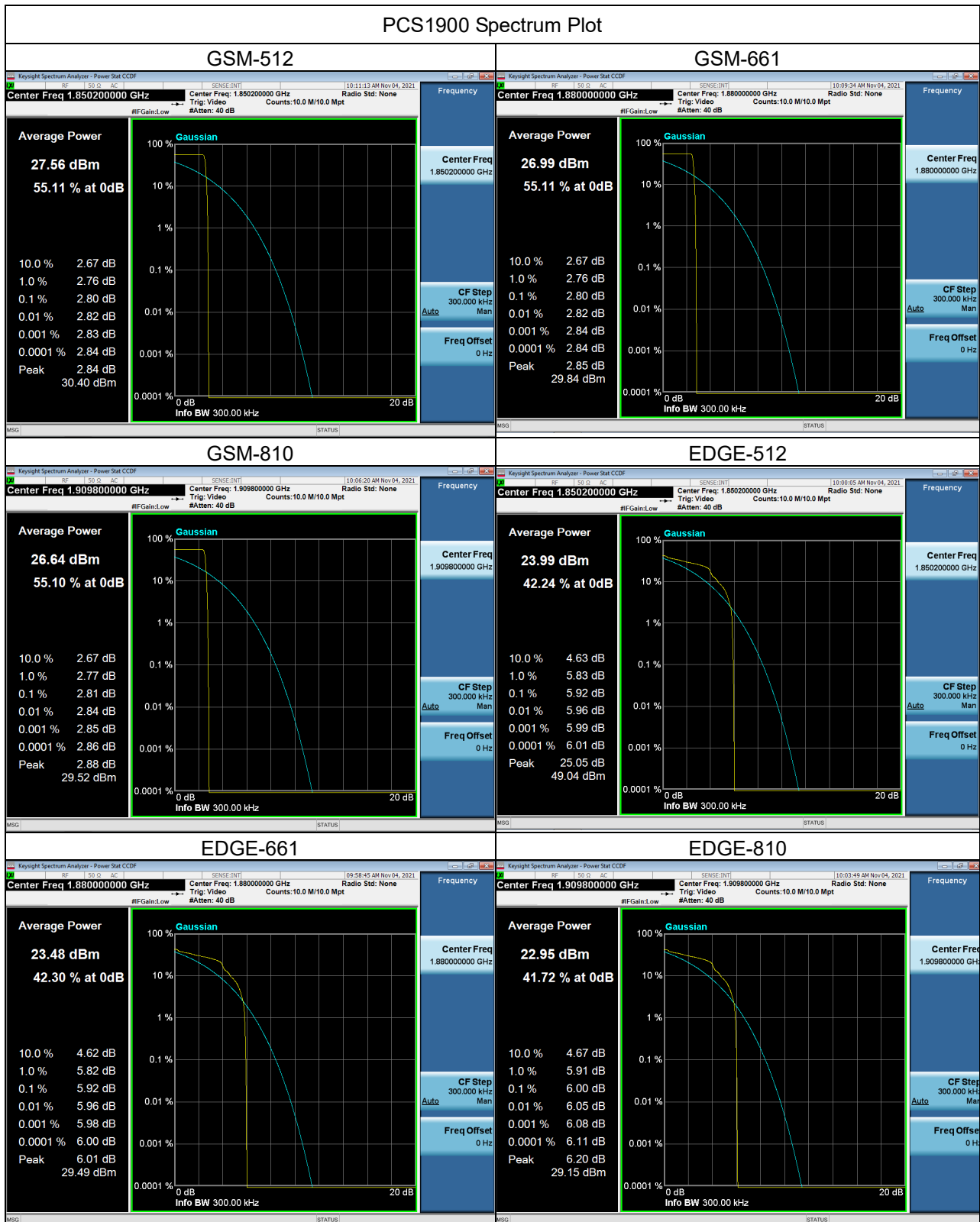
18700

Channel

19100

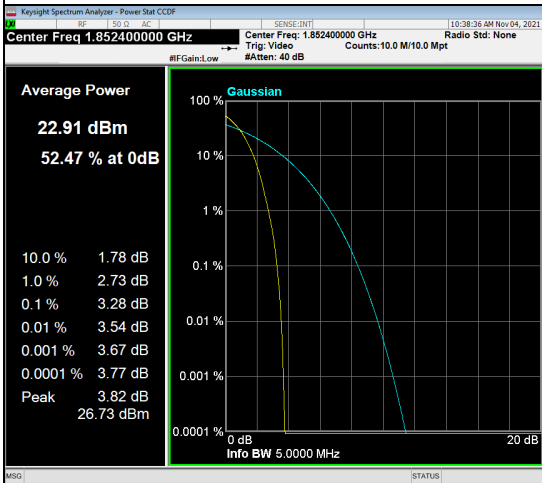


APPENDIX H - PEAK TO AVERAGE RATIO

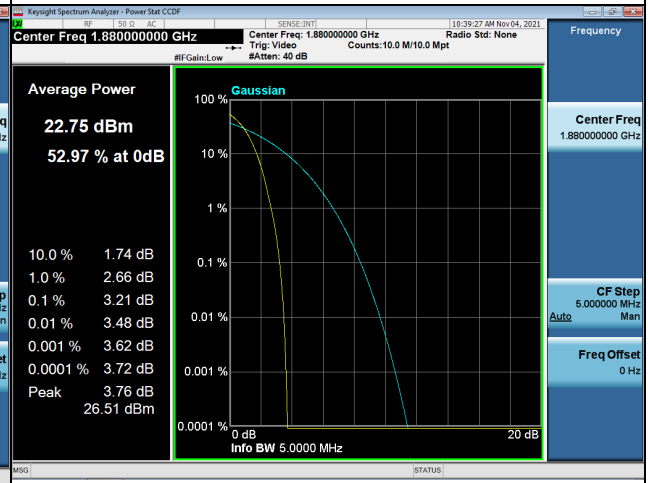


WCDMA Band II_WCDMA Spectrum Plot

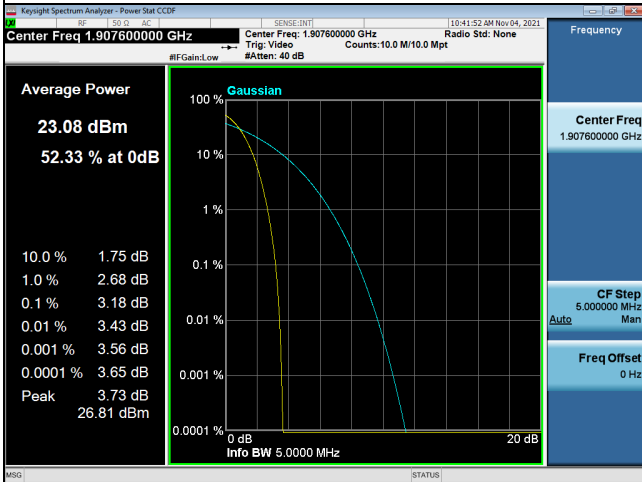
9262



9400

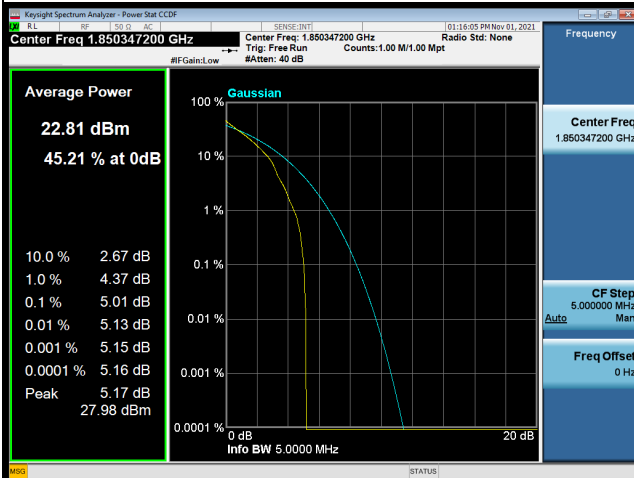


9538

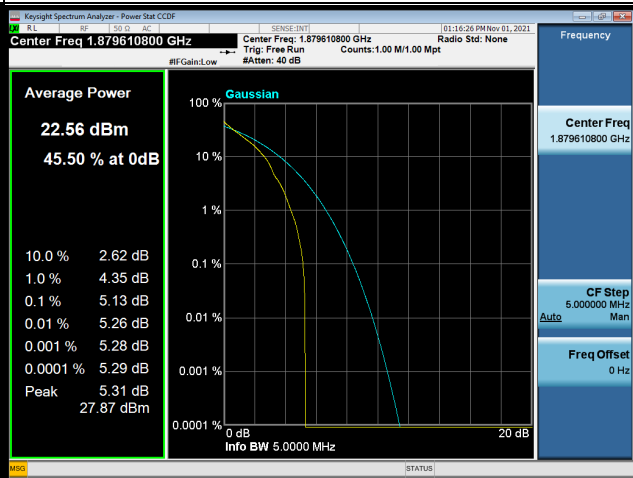


LTE Band 2_1.4M Spectrum Plot

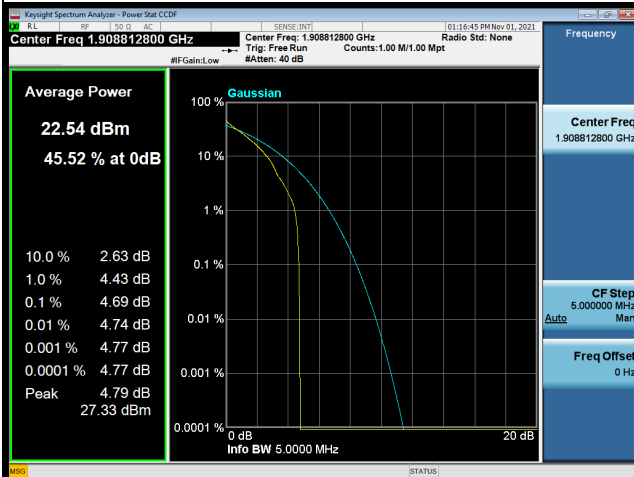
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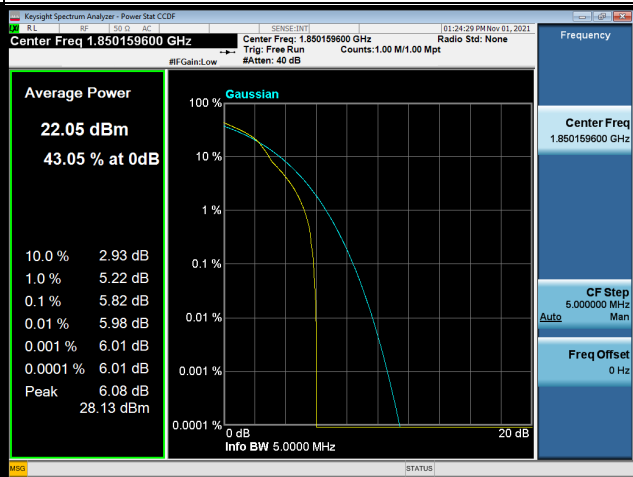
QPSK-18900



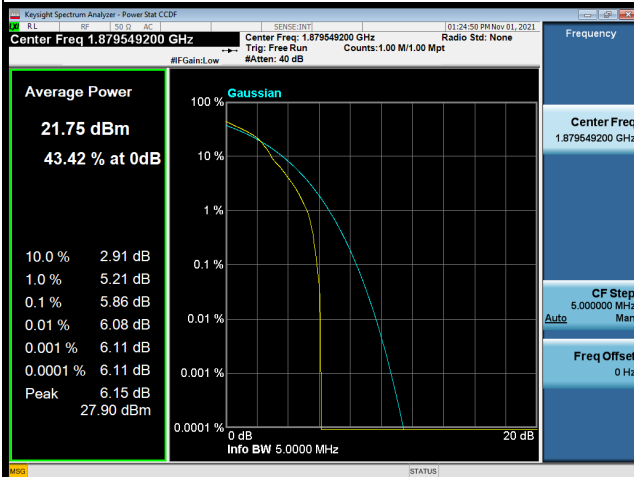
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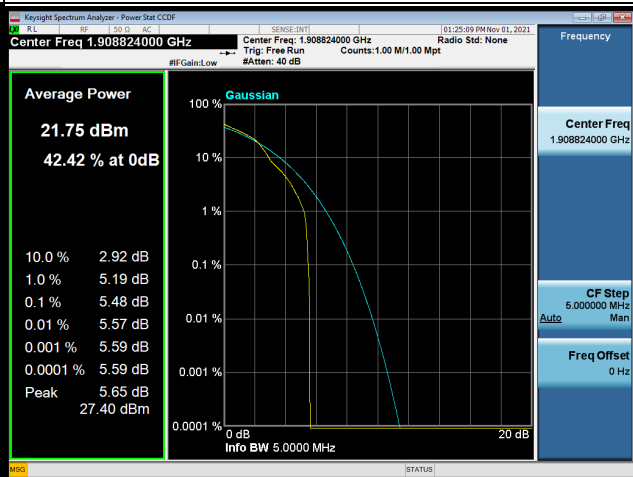
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16QAM-18900

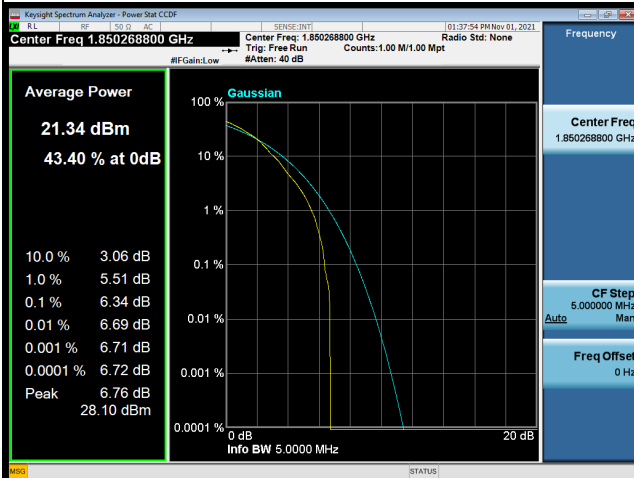


16QAM-19193



LTE Band 2_1.4M Spectrum Plot

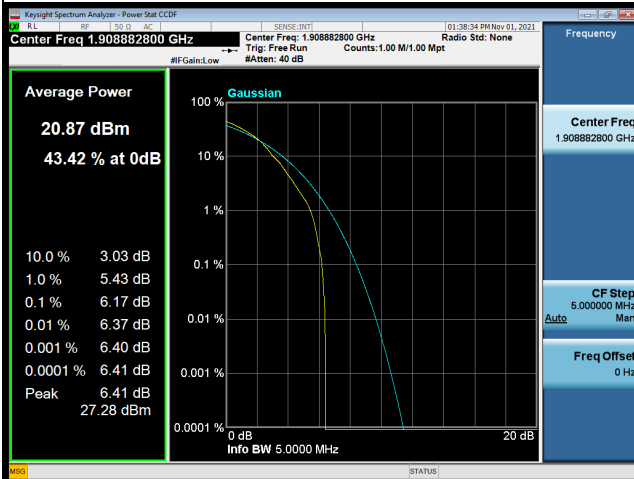
64QAM-18615



64QAM-18900

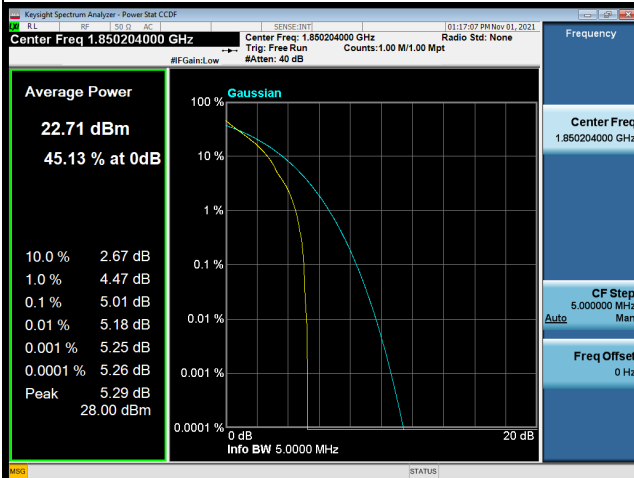


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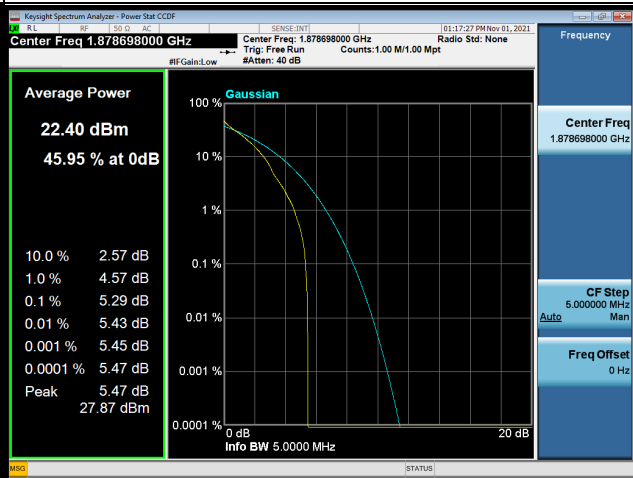


LTE Band 2_3M Spectrum Plot

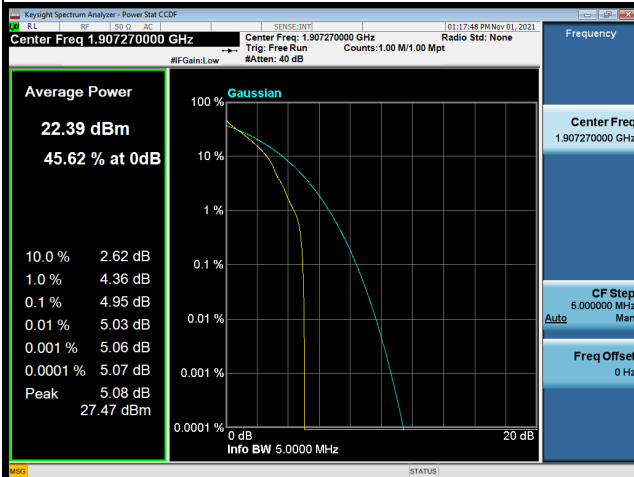
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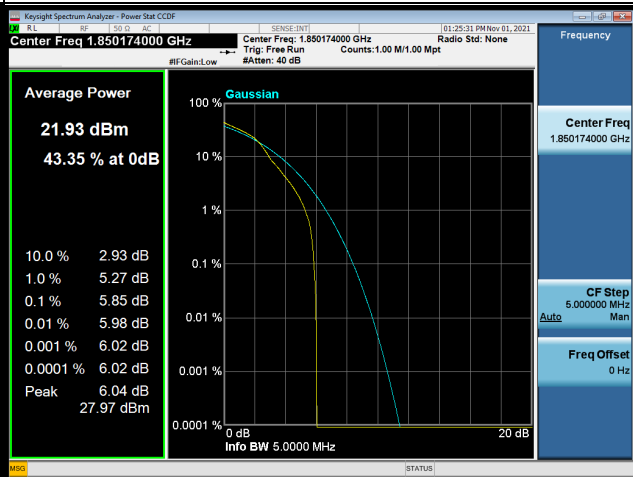
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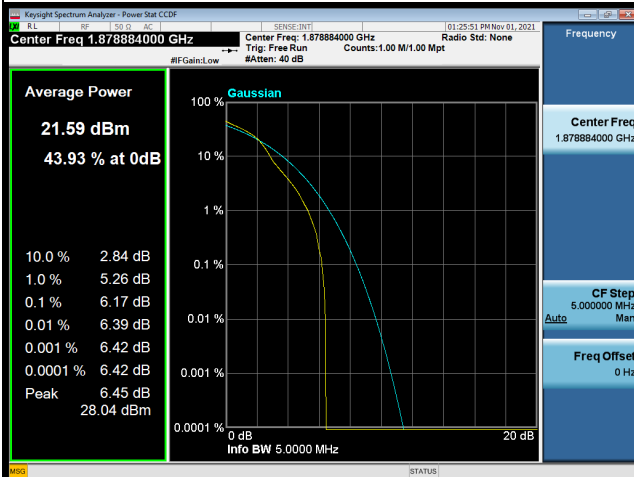
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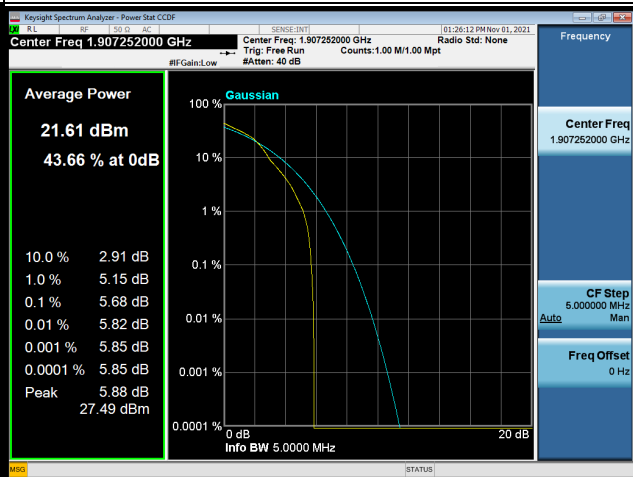
16QAM-18615



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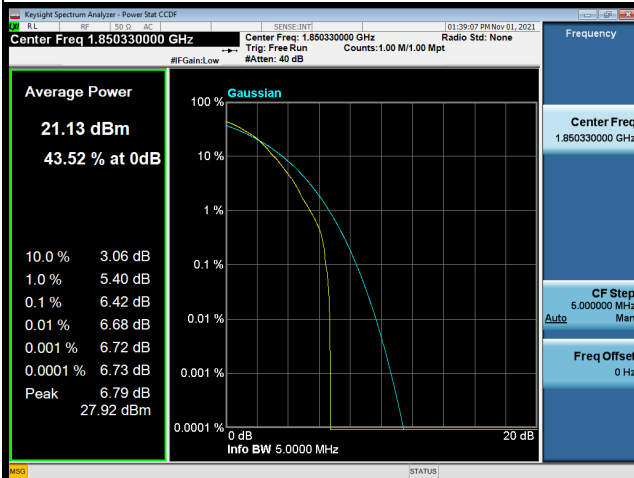


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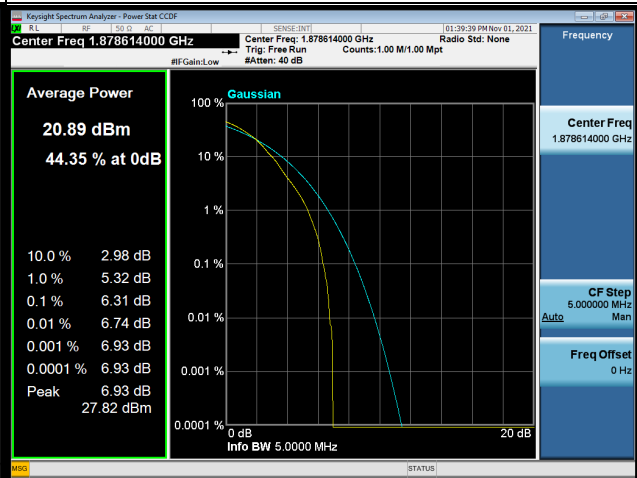


LTE Band 2_3M Spectrum Plot

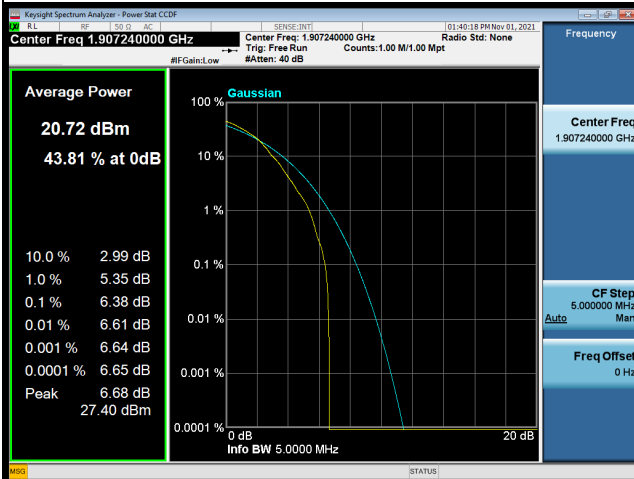
64QAM-18615



64QAM-18900

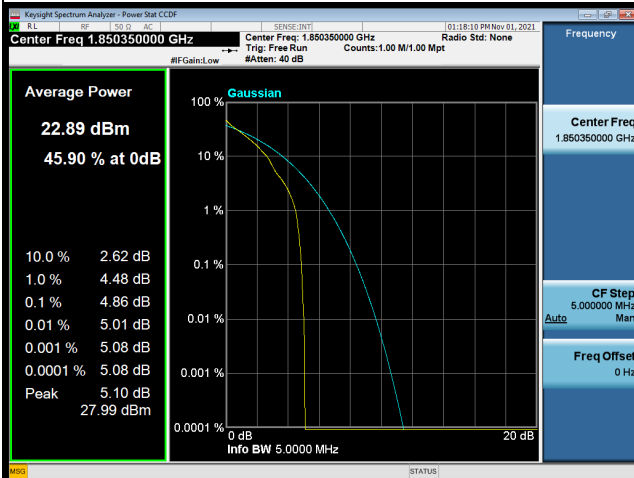


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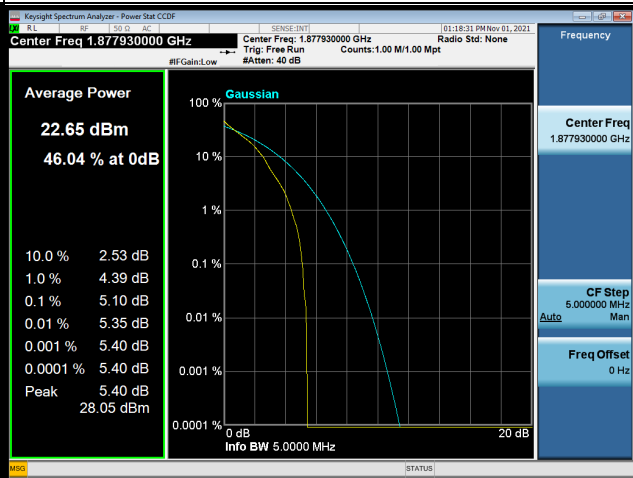


LTE Band 2_5M Spectrum Plot

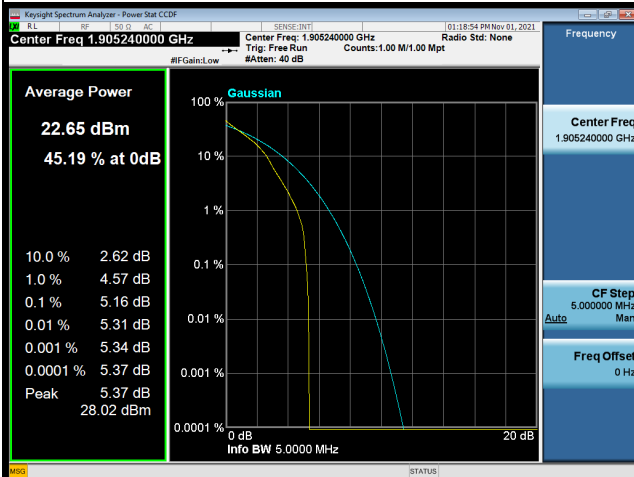
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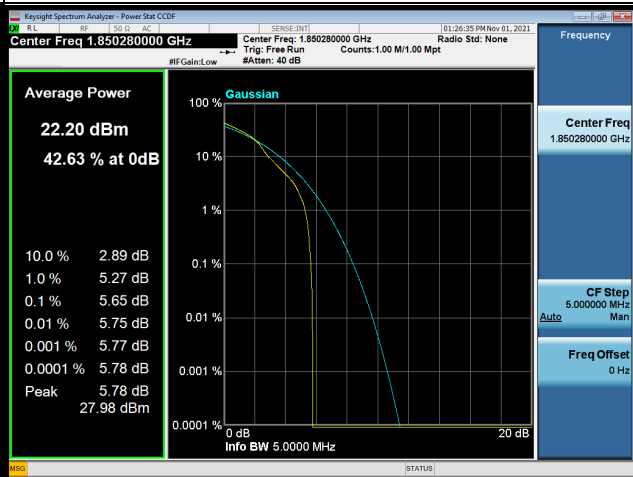
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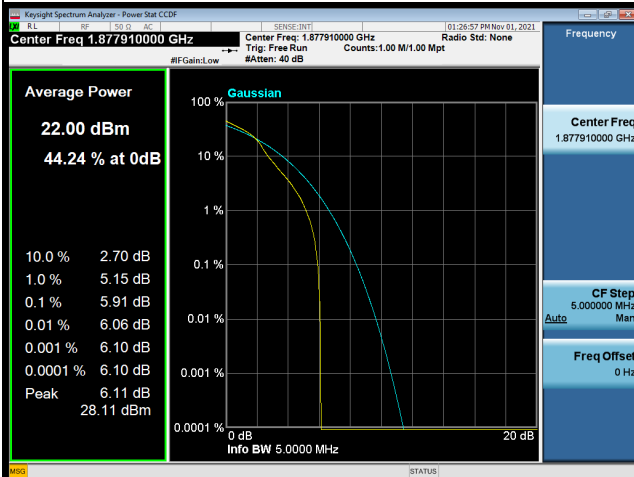
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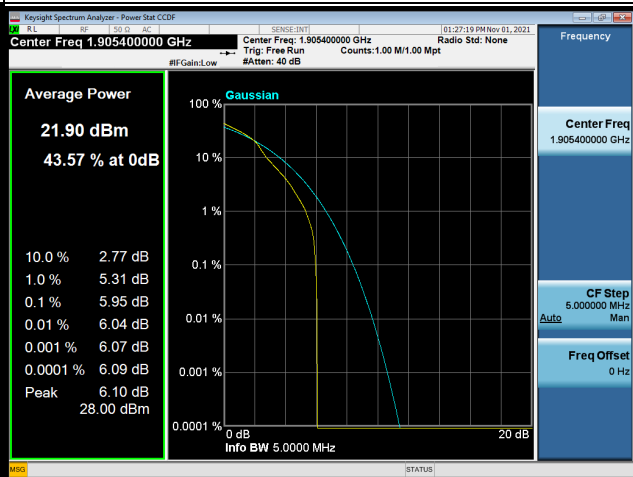
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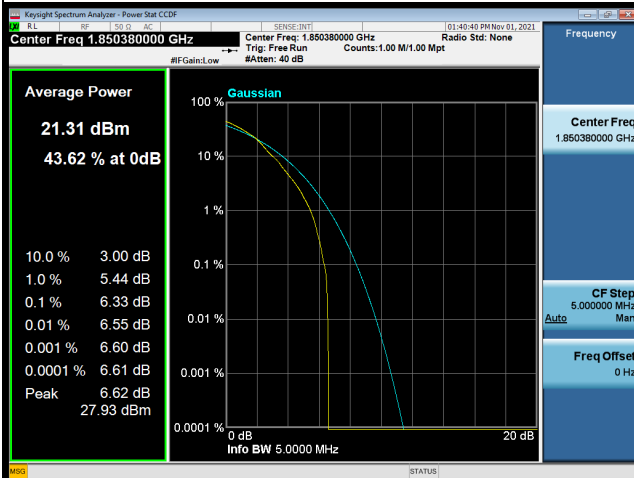


16QAM-19175



LTE Band 2_5M Spectrum Plot

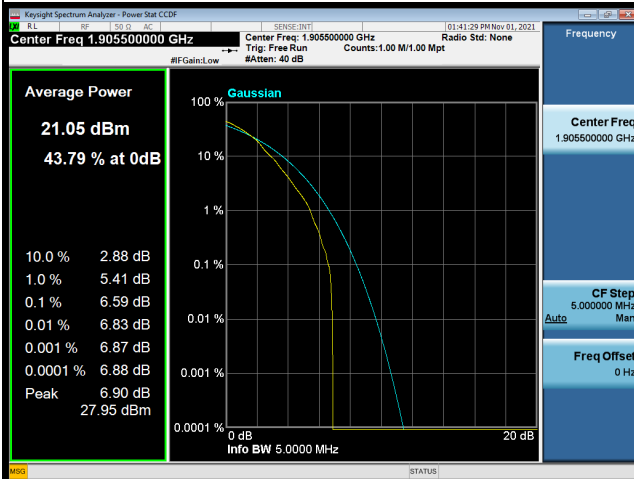
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64QAM-18900



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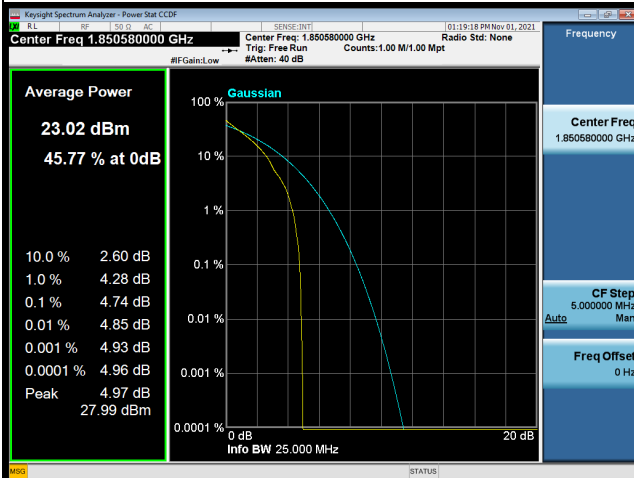


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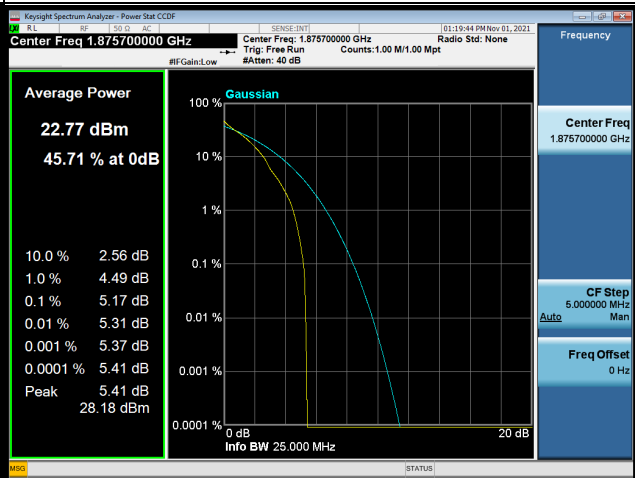
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LTE Band 2_10M Spectrum Plot

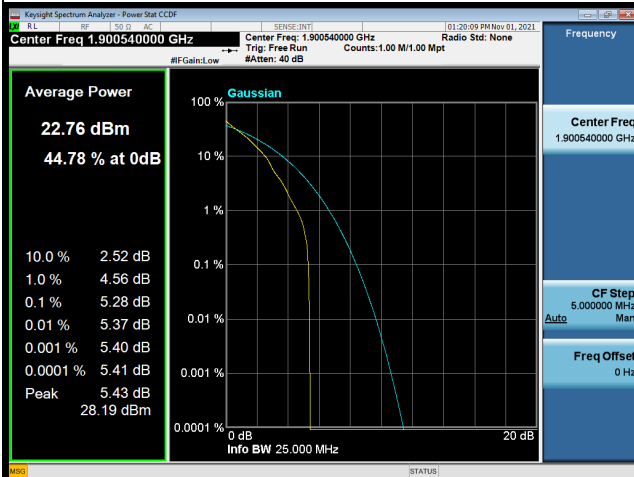
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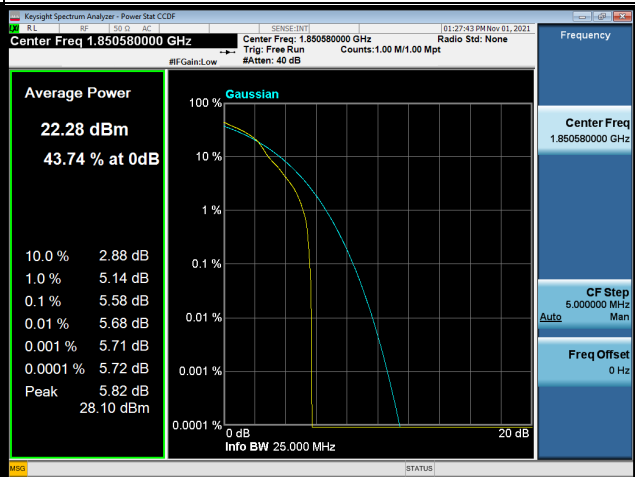
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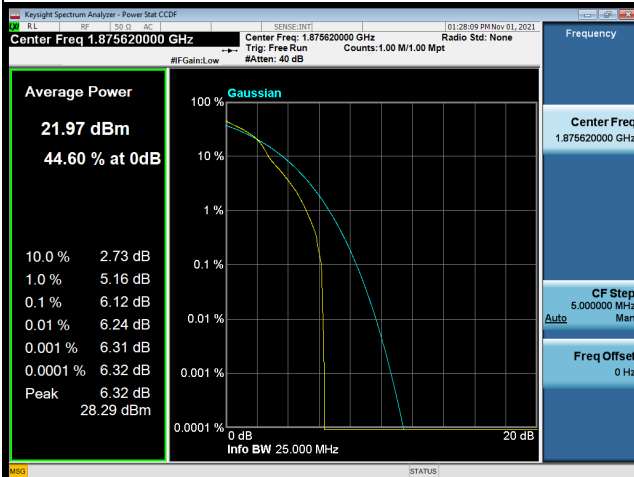
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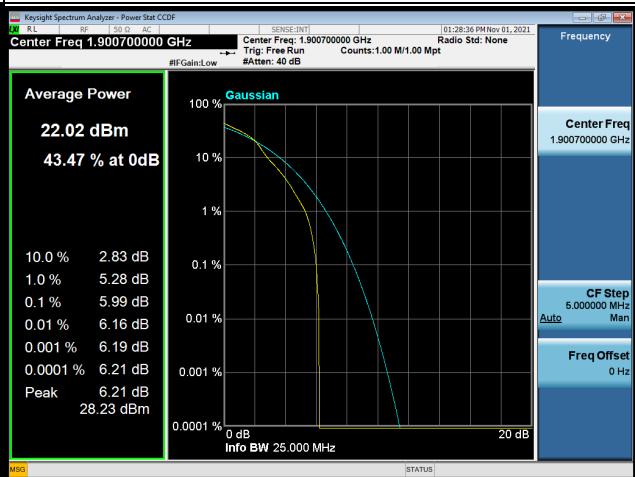
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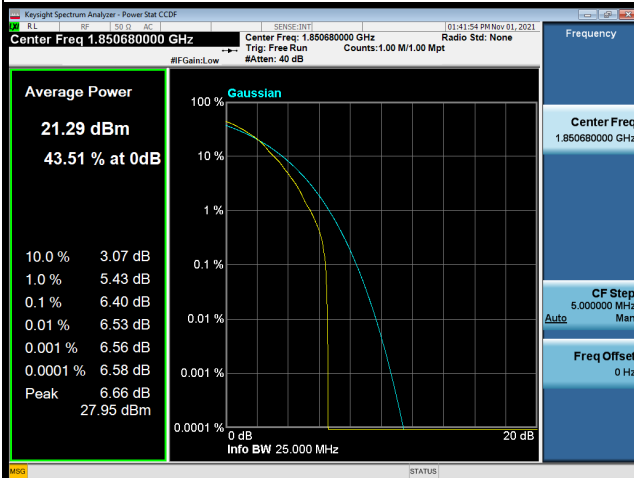


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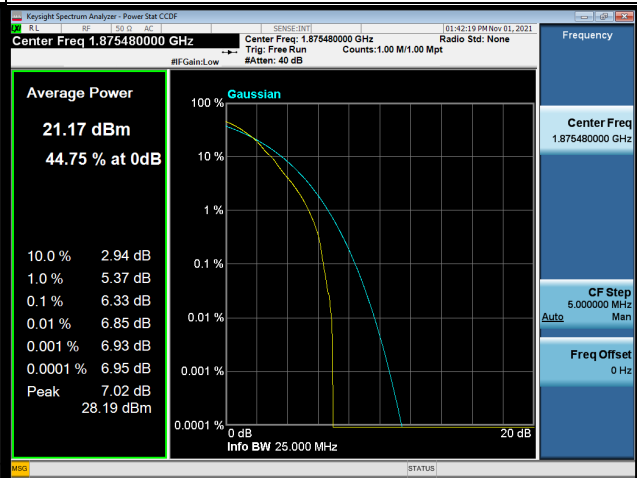


LTE Band 2_10M Spectrum Plot

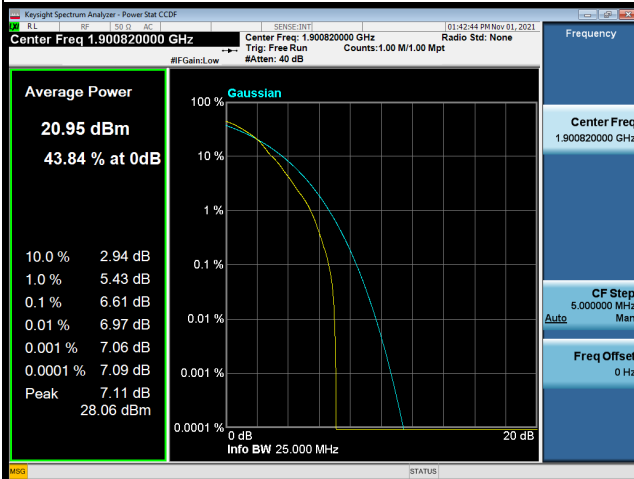
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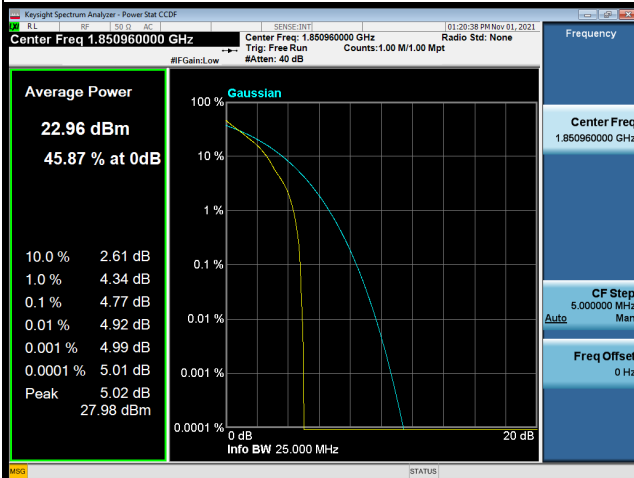


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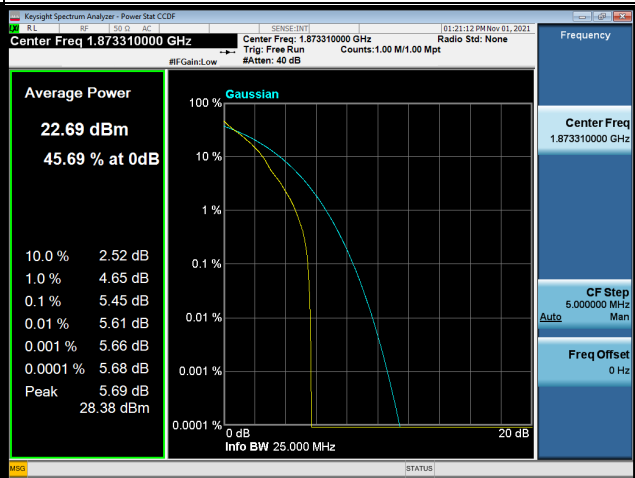


LTE Band 2_15M Spectrum Plot

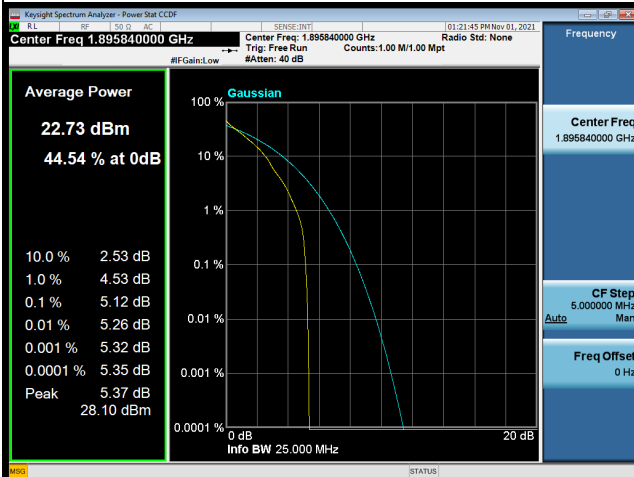
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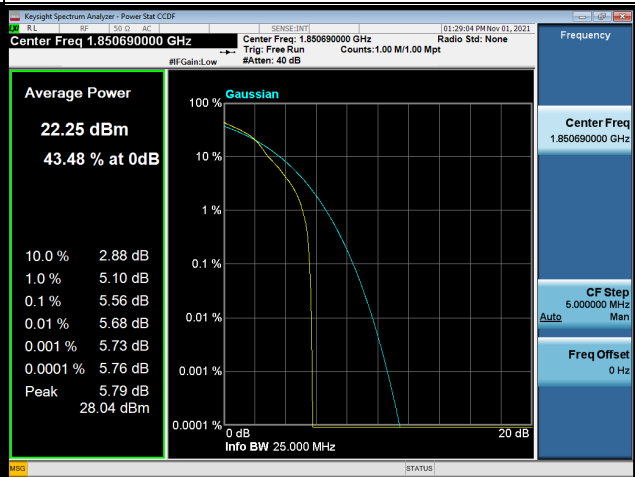
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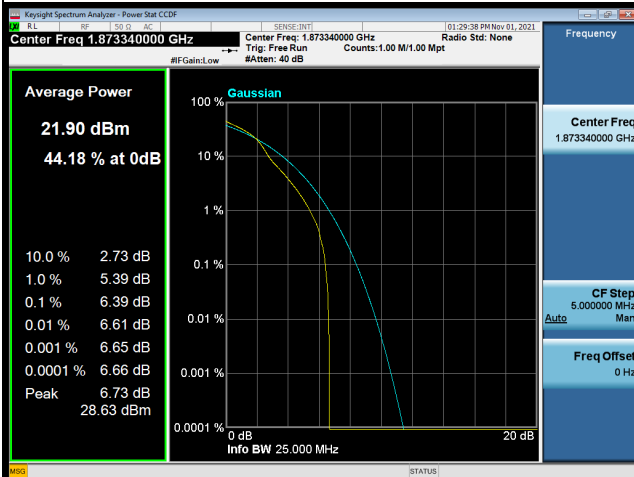
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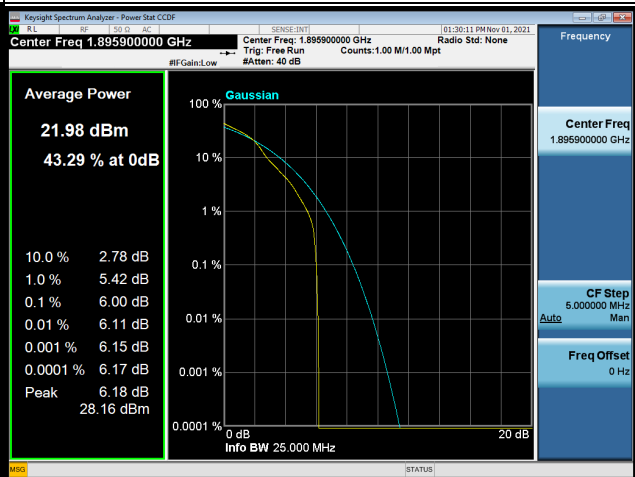
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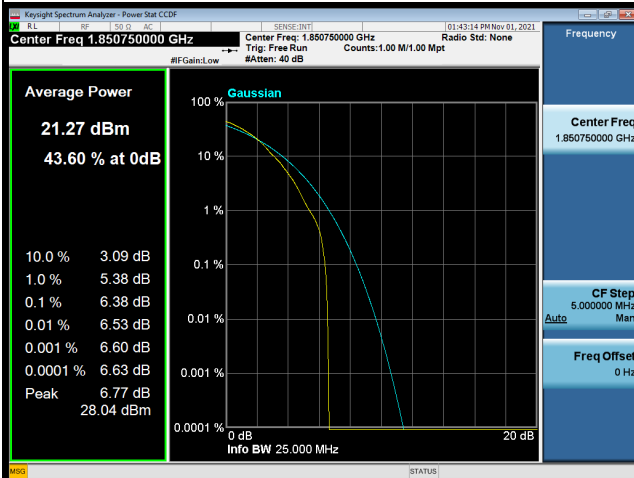


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LTE Band 2_15M Spectrum Plot

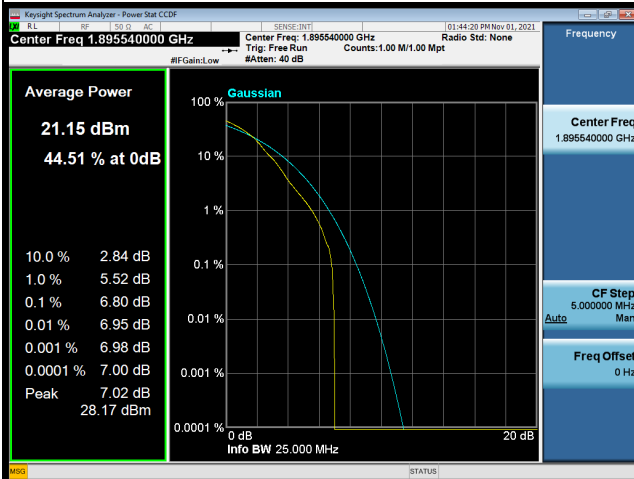
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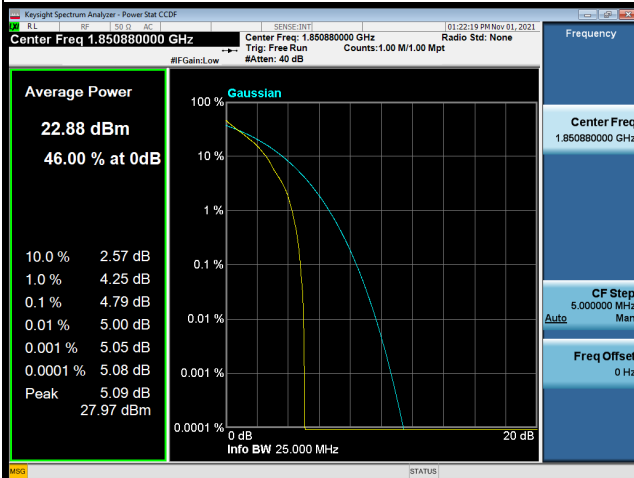


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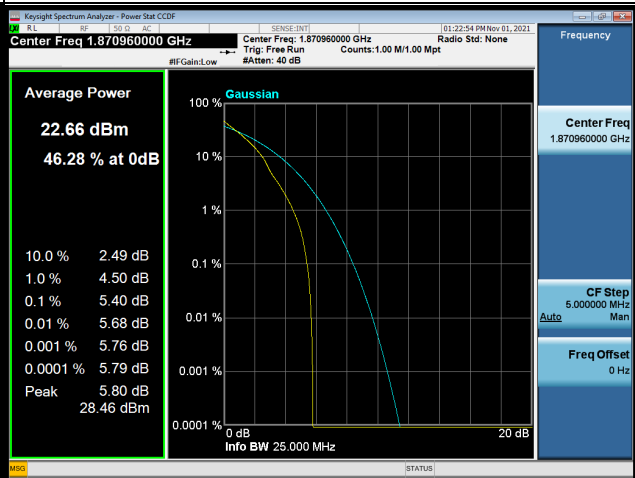
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LTE Band 2_20M Spectrum Plot

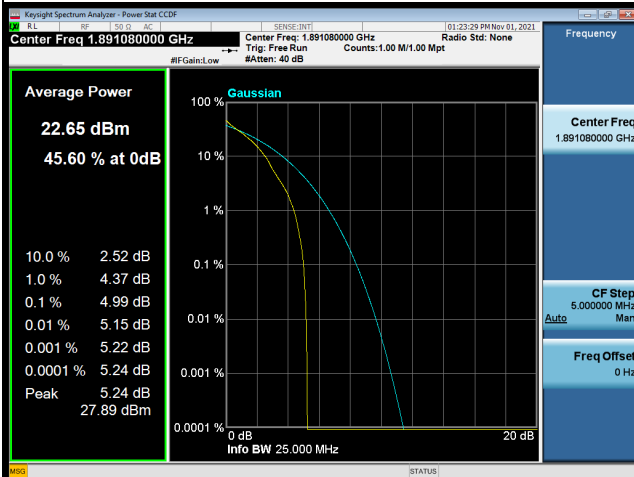
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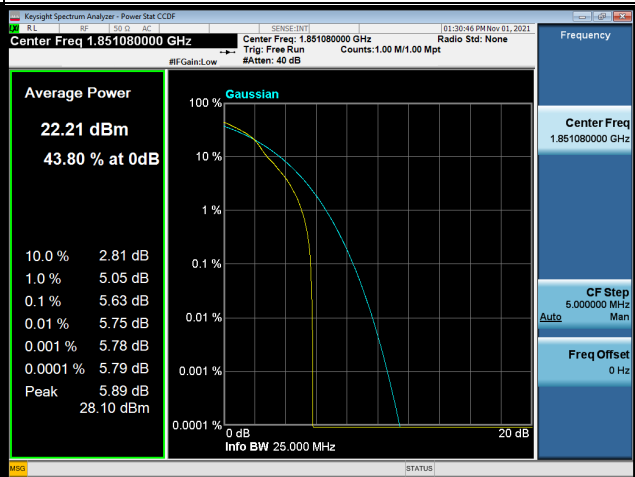
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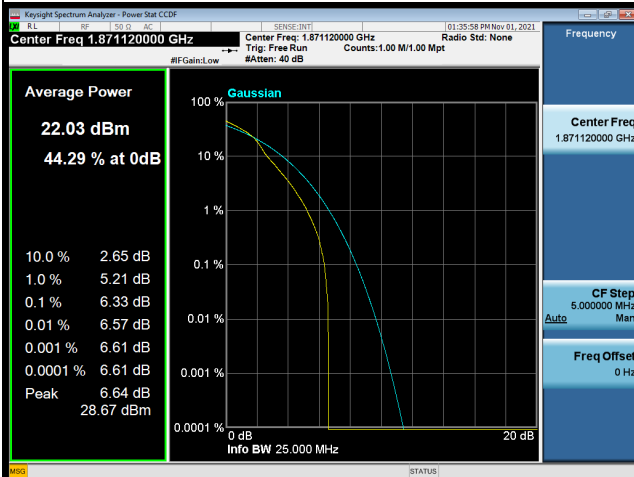
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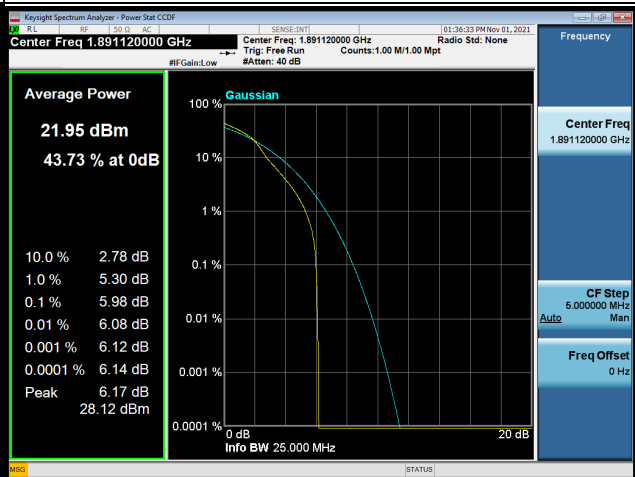
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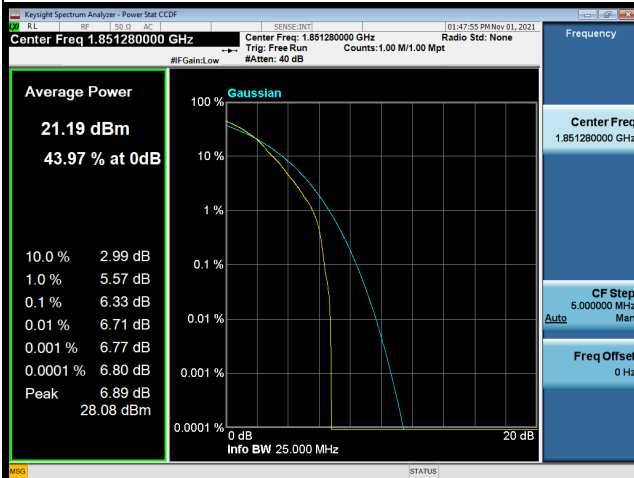


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LTE Band 2_20M Spectrum Plot

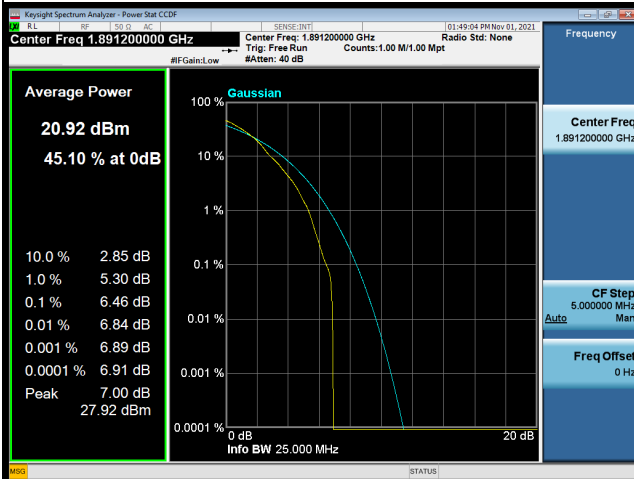
64QAM-18700



64QAM-18900



64QAM-19100



APPENDIX I - FREQUENCY STABILITY

Test Mode	PCS1900_CH661
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	4.1	0.002180851	± 2.5
-20	2.88	0.001531915	
-10	6.16	0.003276596	
0	8.12	0.004319149	
10	2.04	0.001085106	
20	1.28	0.000680851	
30	8.23	0.00437766	
40	6.07	0.003228723	
50	6.41	0.003409574	
Max. Deviation (ppm)	8.23	0.00437766	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.45	4.56	0.002425532	± 2.5
3.87	6.95	0.003696809	
3.40	2.33	0.001239362	
Max. Deviation (ppm)	6.95	0.003696809	

Test Mode	WCDMA Band II_CH9400
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	6.21	0.003303191	± 2.5
-20	8.16	0.004340426	
-10	5.15	0.002739362	
0	6.13	0.003260638	
10	4.66	0.002476596	
20	3.65	0.001941489	
30	3.26	0.001734043	
40	3.15	0.001675532	
50	4.52	0.002404255	
Max. Deviation (ppm)	8.16	0.004340426	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.45	2.25	0.001196809	± 2.5
3.87	3.24	0.001723404	
3.40	4.26	0.002265957	
Max. Deviation (ppm)	4.26	0.002265957	

Test Mode	LTE Band 2_CH18900_1.4M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-1.25	-0.000664894	± 2.5
-20	-2.08	-0.001106383	
-10	-6.05	-0.003218085	
0	7.56	0.004021277	
10	-4.38	-0.002329787	
20	2.76	0.001468085	
30	-1.31	-0.000696809	
40	-1.73	-0.000920213	
50	5.98	0.003180851	
Max. Deviation (ppm)	7.56	0.004021277	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.45	5.44	0.002893617	± 2.5
3.87	4.62	0.002457447	
3.40	2.03	0.001079787	
Max. Deviation (ppm)	5.44	0.002893617	

Test Mode	LTE Band 2_CH18900_3M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-5.42	-0.002882979	±2.5
-20	1.74	0.000925532	
-10	-0.90	-0.000478723	
0	-1.13	-0.000601064	
10	3.45	0.001835106	
20	-2.68	-0.001425532	
30	-8.19	-0.004356383	
40	3.06	0.00162766	
50	-3.68	-0.001957447	
Max. Deviation (ppm)	-8.19	-0.004356383	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.45	1.50	0.000797872	±2.5
3.87	3.42	0.001819149	
3.40	2.20	0.001170213	
Max. Deviation (ppm)	3.42	0.001819149	

Test Mode	LTE Band 2_CH18900_5M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-1.11	-0.000590426	± 2.5
-20	8.38	0.004457447	
-10	6.54	0.003478723	
0	-1.76	-0.00093617	
10	-7.10	-0.003776596	
20	-2.55	-0.001356383	
30	-7.29	-0.00387766	
40	1.65	0.00087766	
50	6.05	0.003218085	
Max. Deviation (ppm)	8.38	0.004457447	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.45	-6.69	-0.003558511	± 2.5
3.87	-1.45	-0.000771277	
3.40	-5.11	-0.002718085	
Max. Deviation (ppm)	-6.69	-0.003558511	

Test Mode	LTE Band 2_CH18900_10M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-3.99	-0.00212234	± 2.5
-20	6.48	0.003446809	
-10	0.50	0.000265957	
0	7.74	0.004117021	
10	-4.09	-0.002175532	
20	4.63	0.002462766	
30	4.12	0.002191489	
40	6.37	0.003388298	
50	-5.21	-0.002771277	
Max. Deviation (ppm)	7.74	0.004117021	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.45	1.89	0.001005319	± 2.5
3.87	-7.99	-0.00425	
3.40	1.29	0.00068617	
Max. Deviation (ppm)	-7.99	-0.00425	

Test Mode	LTE Band 2_CH18900_15M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-2.02	-0.001074468	± 2.5
-20	-2.47	-0.00131383	
-10	-3.82	-0.002031915	
0	1.34	0.000712766	
10	-1.09	-0.000579787	
20	1.94	0.001031915	
30	4.00	0.00212766	
40	5.74	0.003053191	
50	5.34	0.002840426	
Max. Deviation (ppm)	5.74	0.003053191	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.45	6.23	0.00331383	± 2.5
3.87	7.98	0.004244681	
3.40	6.62	0.003521277	
Max. Deviation (ppm)	7.98	0.004244681	

Test Mode	LTE Band 2_CH18900_20M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	2.96	0.001574468	±2.5
-20	0.64	0.000340426	
-10	7.07	0.003760638	
0	-4.69	-0.002494681	
10	-3.53	-0.00187766	
20	0.27	0.000143617	
30	-5.60	-0.002978723	
40	2.85	0.001515957	
50	-7.70	-0.004095745	
Max. Deviation (ppm)	-7.7	-0.004095745	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.45	6.77	0.003601064	±2.5
3.87	-7.71	-0.004101064	
3.40	6.70	0.00356383	
Max. Deviation (ppm)	-7.71	-0.004101064	

End of Test Report