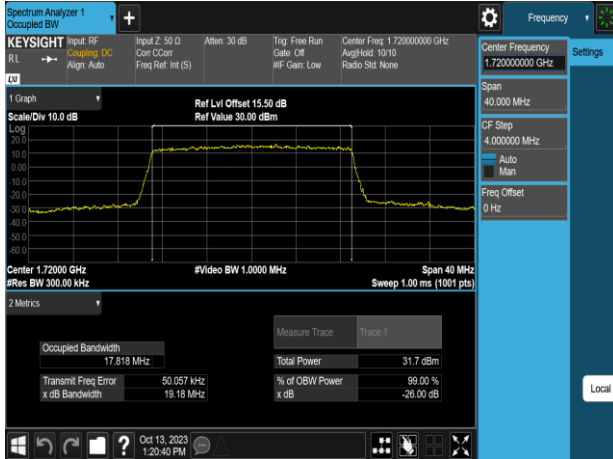
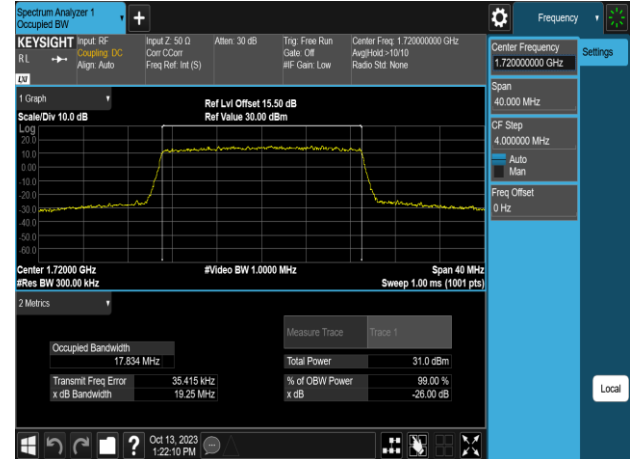


Band66\_20MHz\_QPSK\_RB100\_0\_CH132072



Band66\_20MHz\_16QAM\_RB100\_0\_CH132072



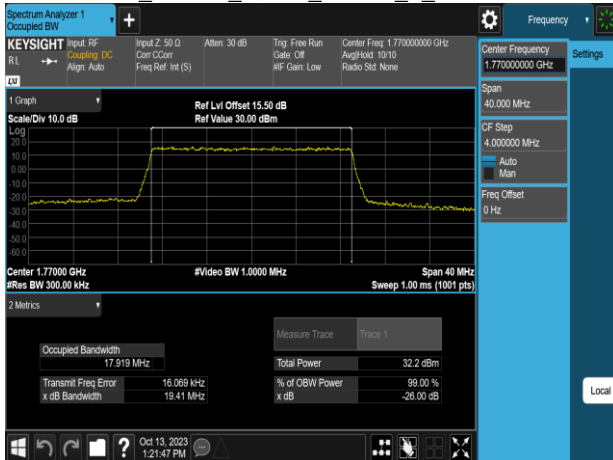
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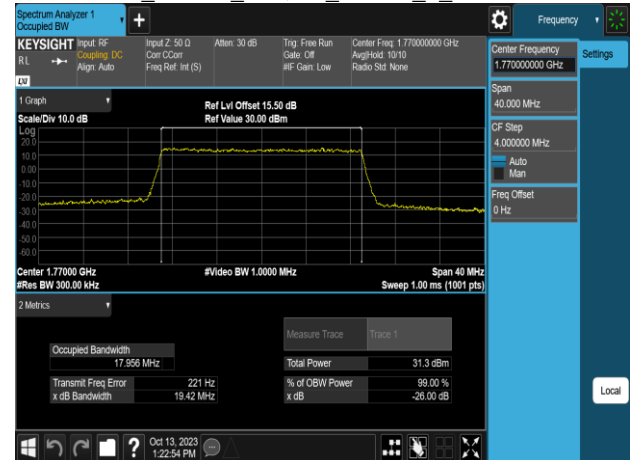
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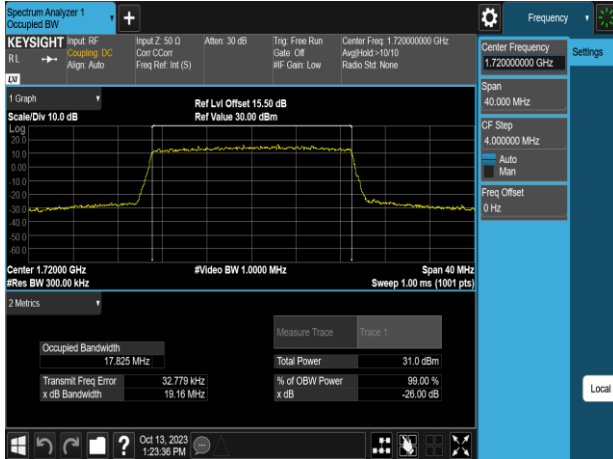
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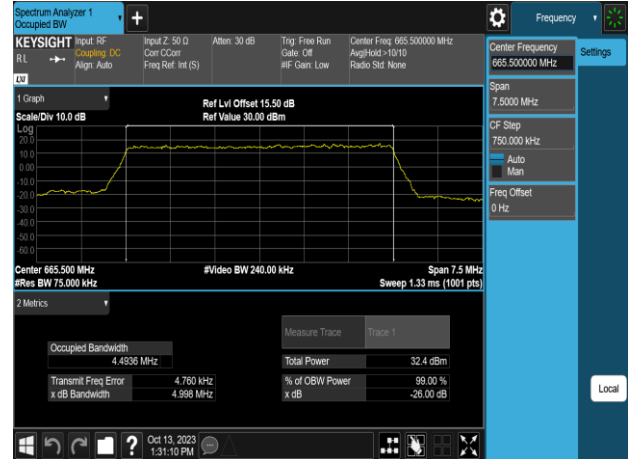
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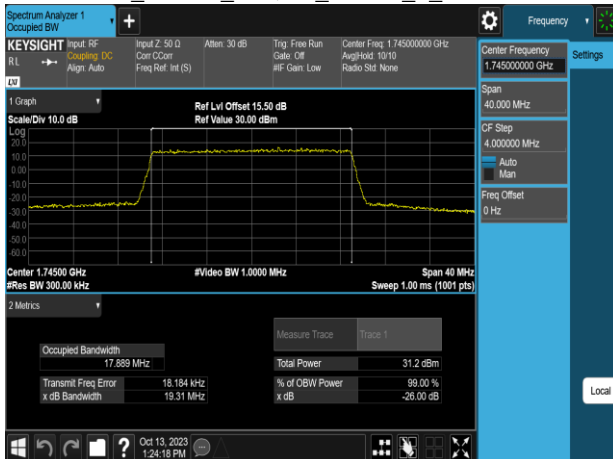
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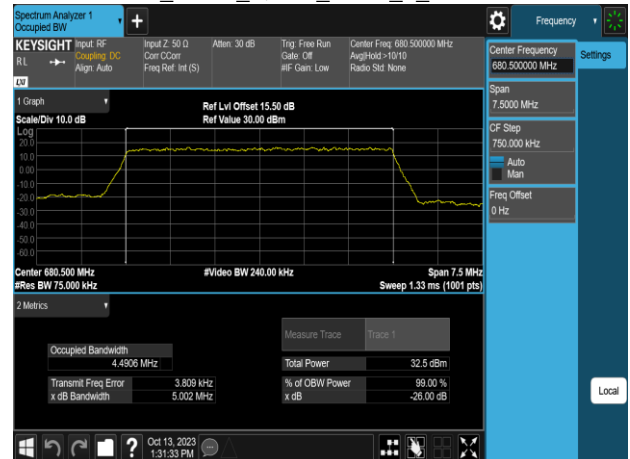
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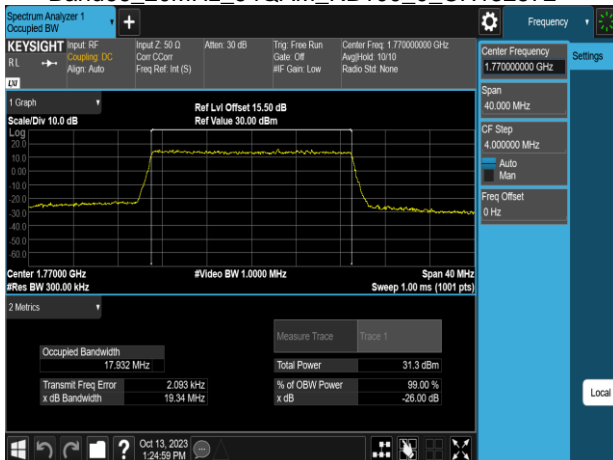
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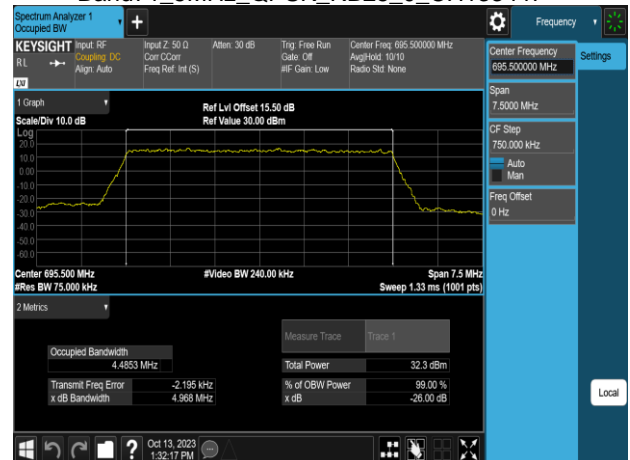
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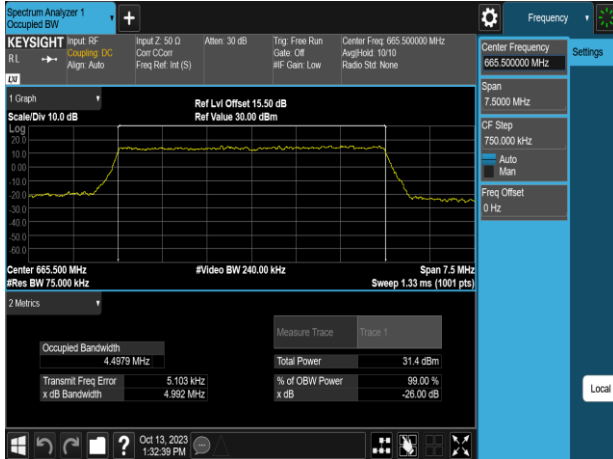
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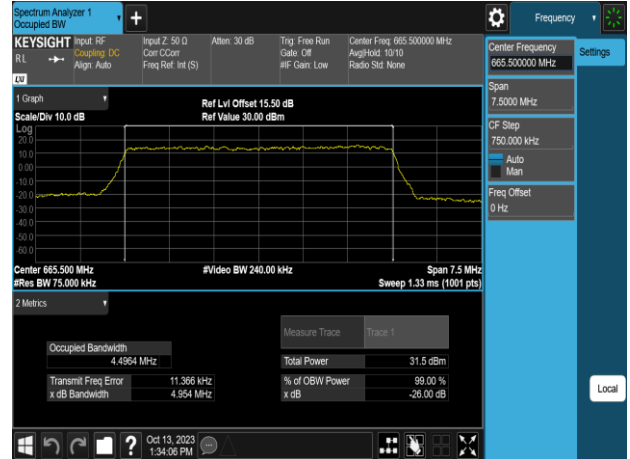
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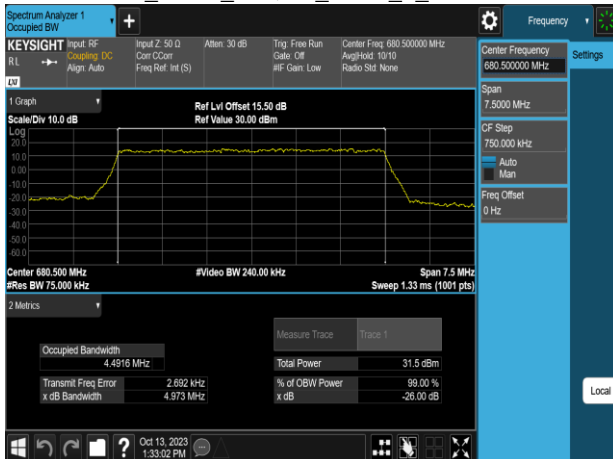
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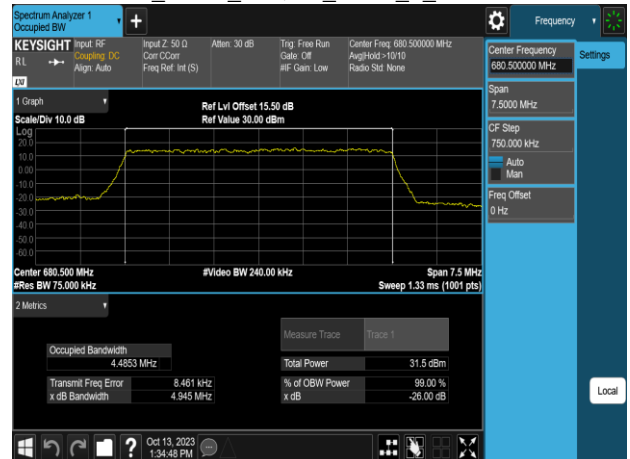
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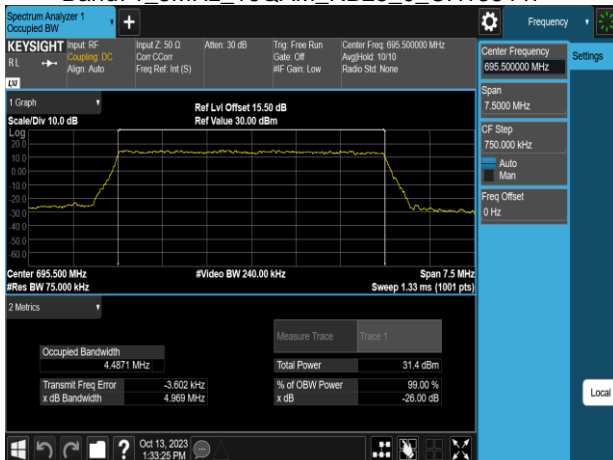
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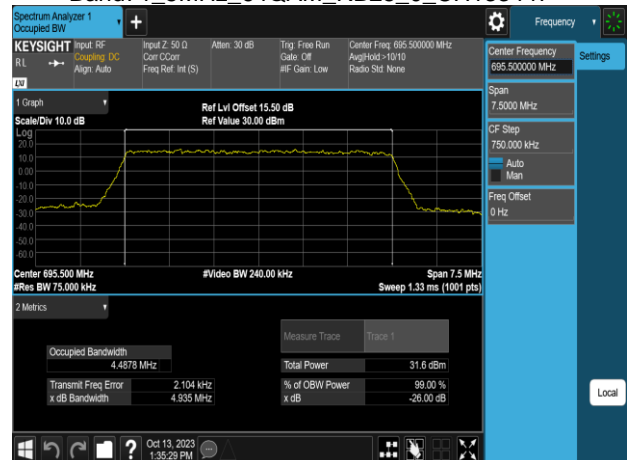
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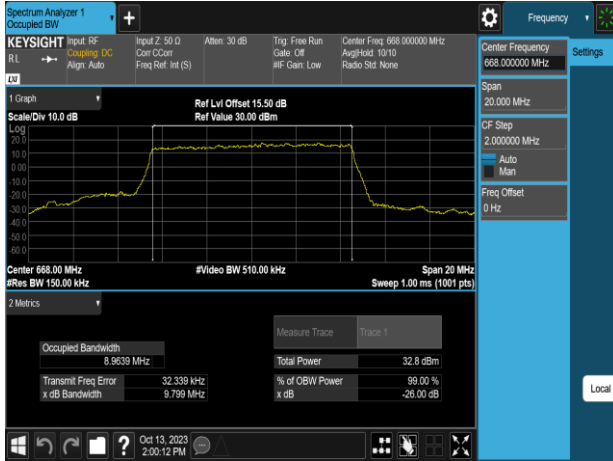
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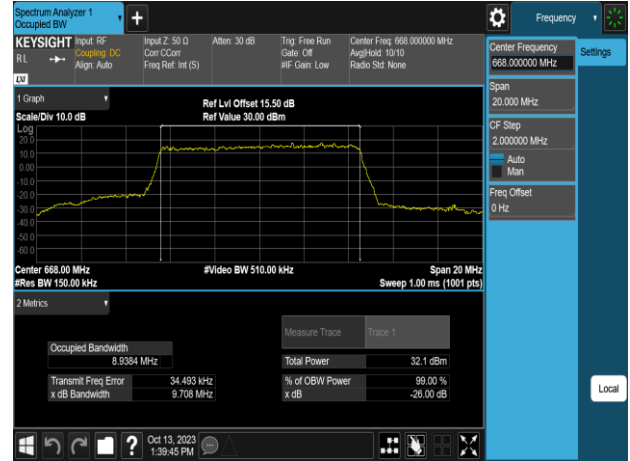
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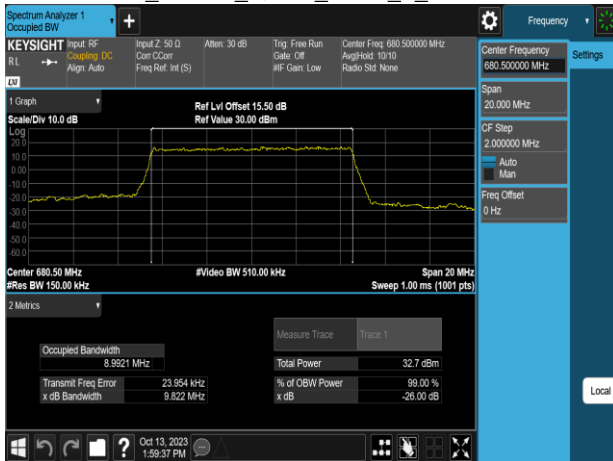
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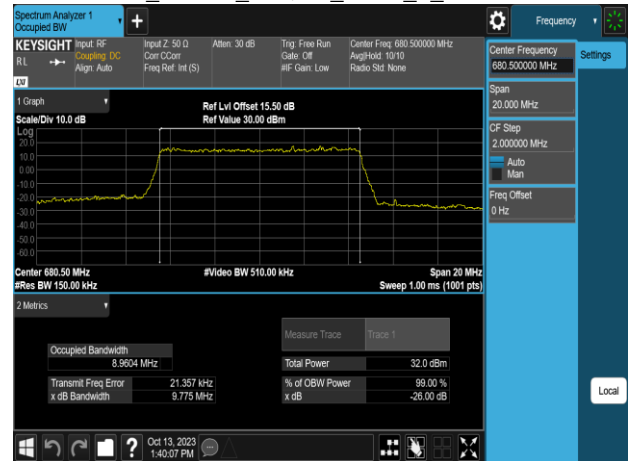
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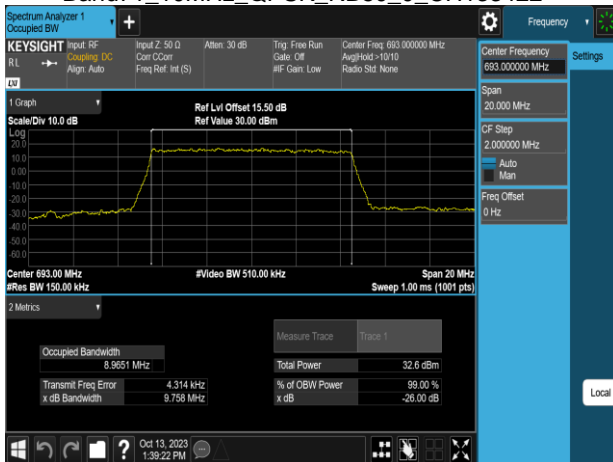
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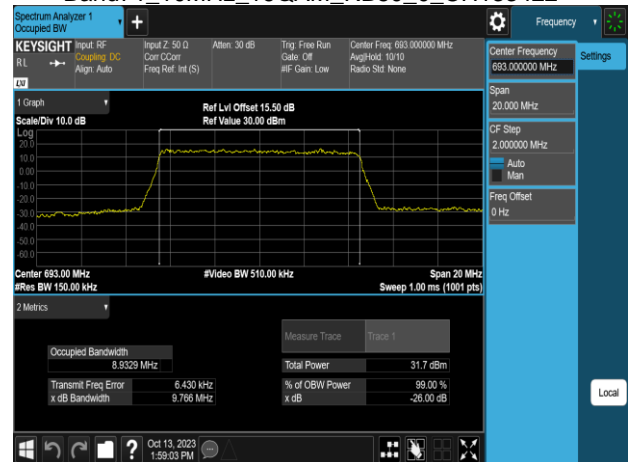
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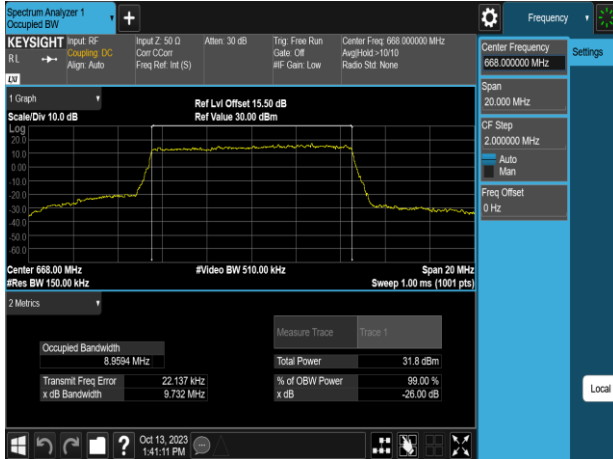
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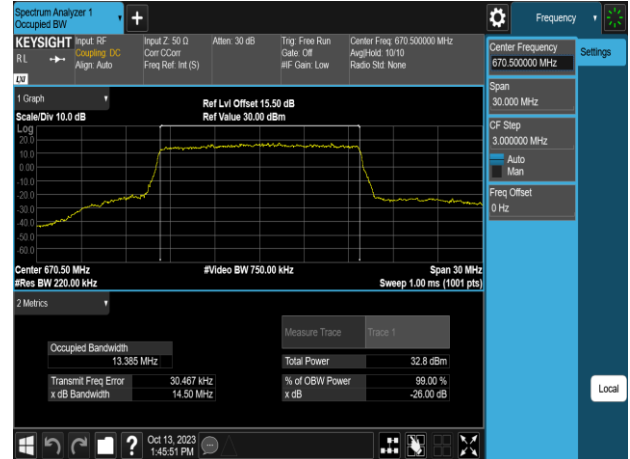
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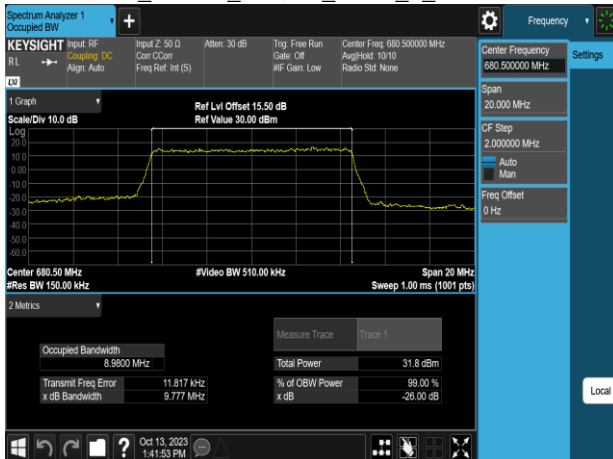
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15MHz\_QPSK\_RB75\_0\_CH133197



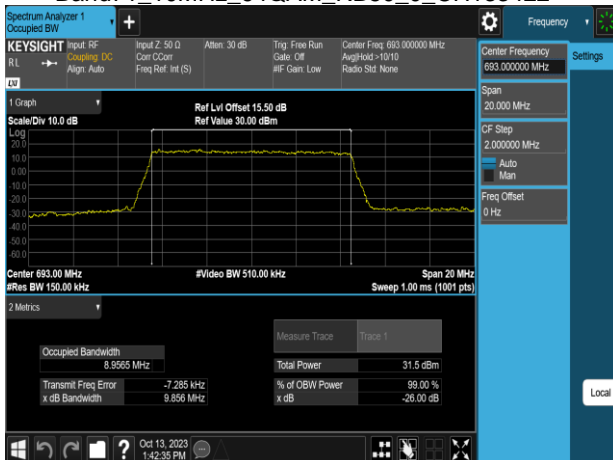
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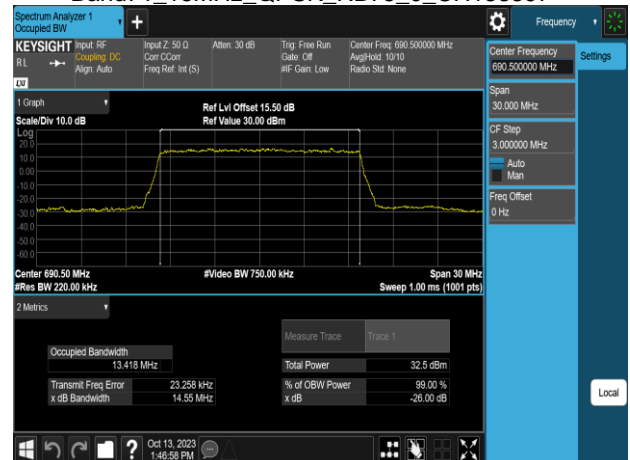
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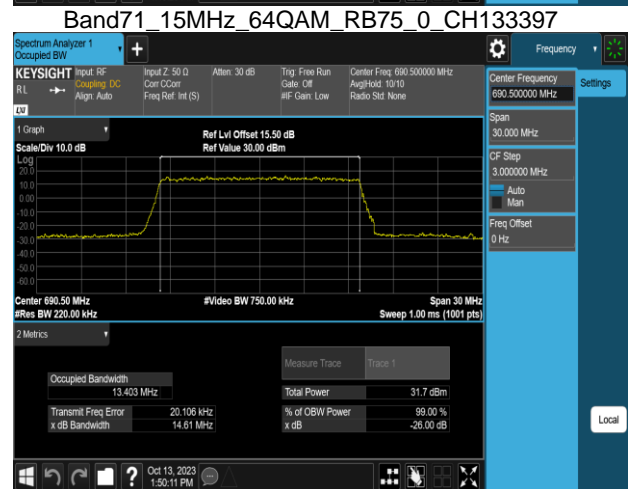
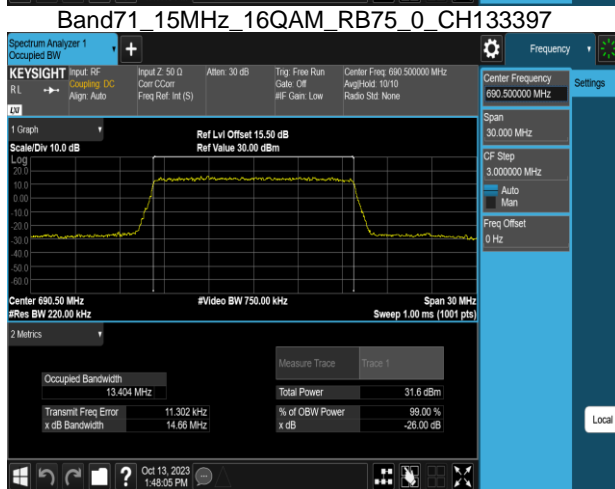
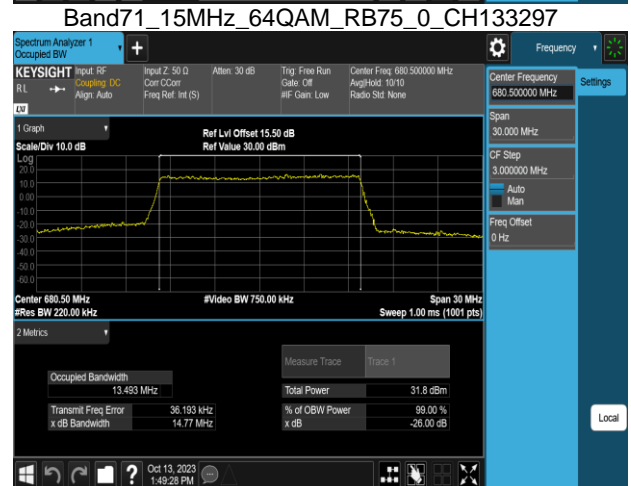
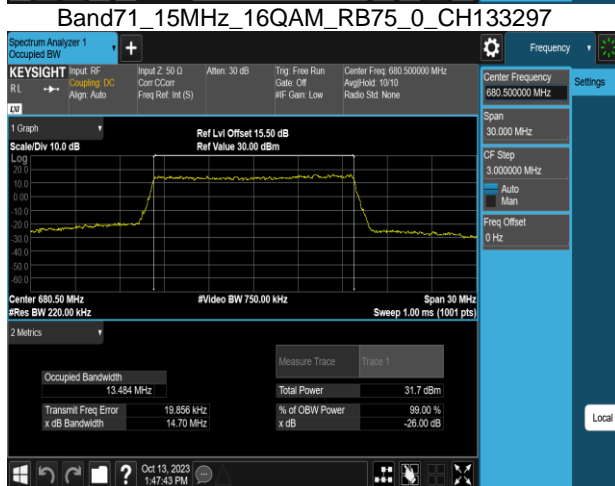
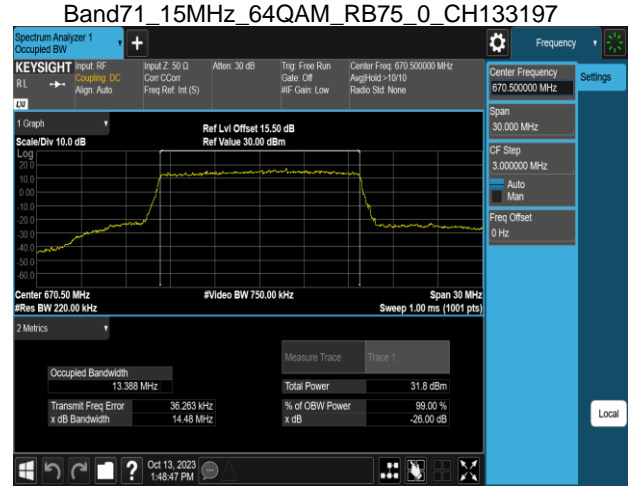
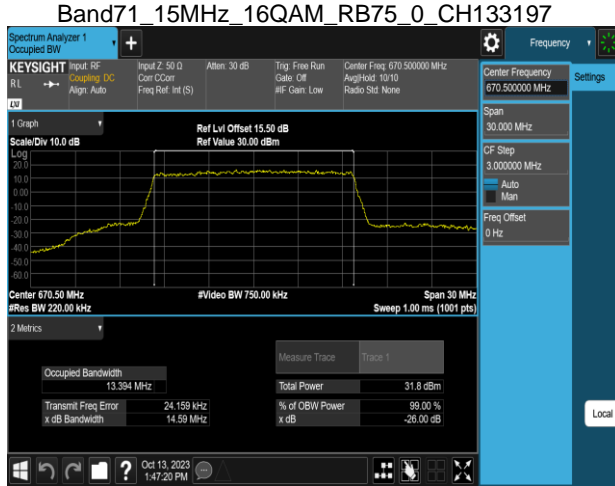


Band71\_10MHz\_64QAM\_RB50\_0\_CH133422

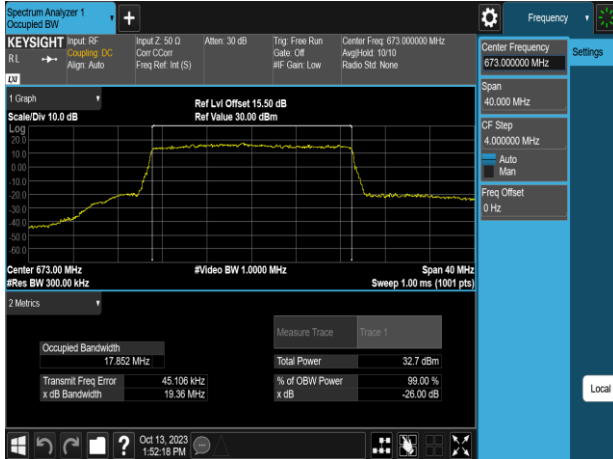


Band71\_15MHz\_QPSK\_RB75\_0\_CH133397





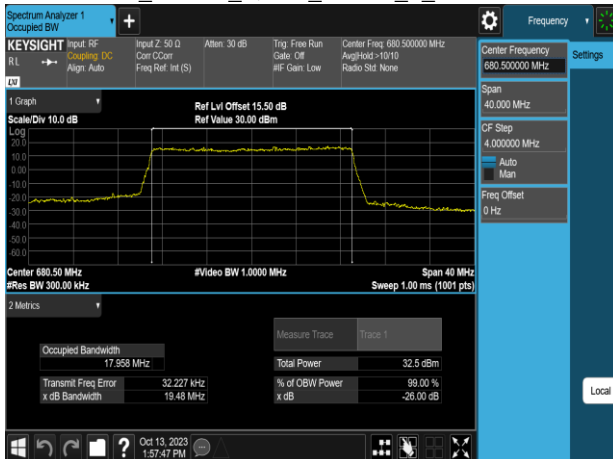
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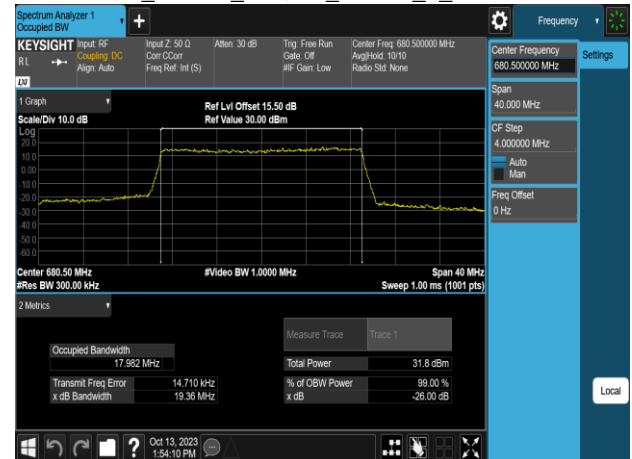
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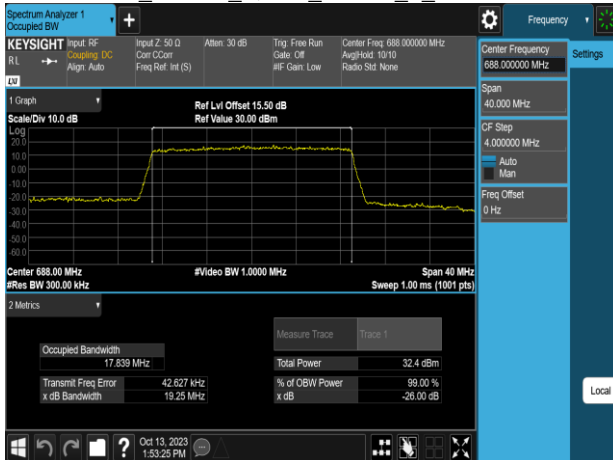
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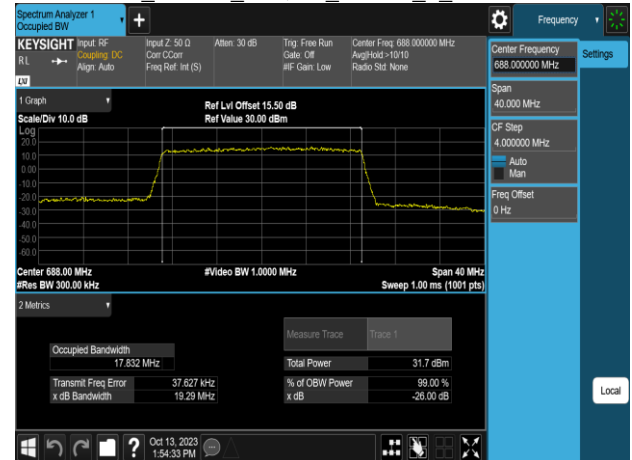
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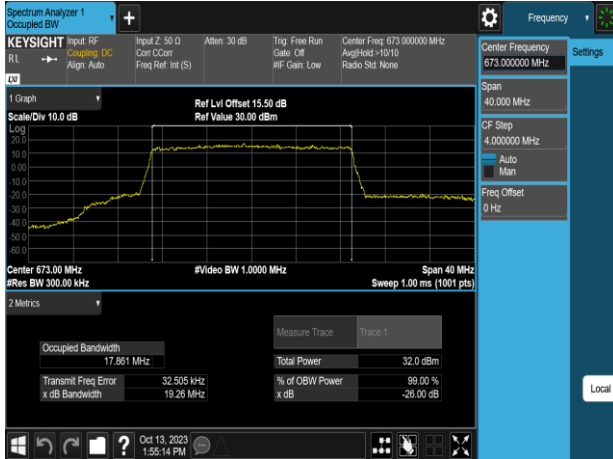
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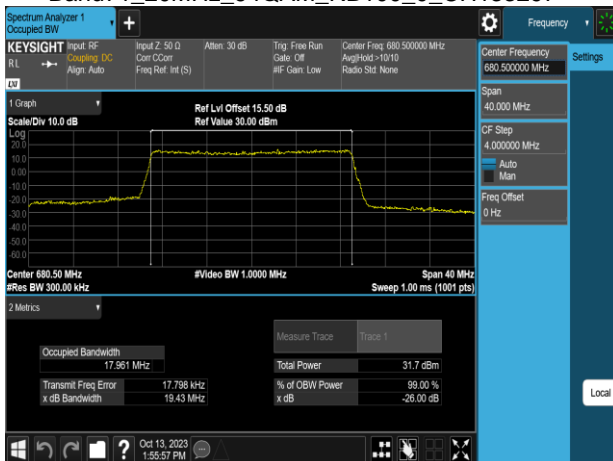
Band71\_20MHz\_16QAM\_RB100\_0\_CH133372



Band71\_20MHz\_64QAM\_RB100\_0\_CH133222



Band71\_20MHz\_64QAM\_RB100\_0\_CH133297



Band71\_20MHz\_64QAM\_RB100\_0\_CH133372





Report No.: TMWK2305001412KR

## 8.4 PEAK TO AVERAGE RATIO

### LIMIT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB.

### TEST PROCEDURES

1. According to KDB 971168 D01,
2. The EUT was connect to spectrum analyzer and call box.
3. Set the CCDF function in spectrum analyzer.
4. The highest RF output power were measured and recorded the maximum PAPR level associated with a probability of 0.1%.
5. Record the Peak to Average Power Ratio.

**Note:** We selected worst case to performed test in middle channel, the results can be meet other channel.

### TEST RESULTS

Compliance

**Temperature:** 21.6~25.6°C

**Test date:**

October 13~December  
15, 2023

**Humidity:** 50~62% RH

**Tested by:**

Allen Shen

**Test Data**

LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1850.7	18607	6.77	13	1851.5	18615	6.45	13
1880.0	18900	6.63	13	1880.0	18900	6.57	13
1909.3	19193	6.72	13	1908.5	19185	5.94	13

LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1852.5	18625	6.40	13	1855.0	18650	6.27	13
1880.0	18900	6.28	13	1880.0	18900	6.50	13
1907.5	19175	6.38	13	1905.0	19150	6.37	13

LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1857.5	18675	6.07	13	1860.0	18700	6.34	13
1880.0	18900	6.18	13	1880.0	18900	6.29	13
1902.5	19125	6.05	13	1900.0	19100	6.42	13

LTE BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1710.7	19957	6.41	13	1711.5	19965	6.49	13
1732.5	20175	6.34	13	1732.5	20175	6.18	13
1754.3	20393	6.19	13	1753.5	20385	6.23	13

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1712.5	19975	6.37	13	1715.0	20000	6.35	13
1732.5	20175	6.15	13	1732.5	20175	6.33	13
1752.5	20375	6.25	13	1750.0	20350	6.15	13

LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1717.5	20025	5.91	13	1720.0	20050	6.03	13
1732.5	20175	6.06	13	1732.5	20175	6.18	13
1747.5	20325	6.06	13	1745.0	20300	6.26	13

LTE BAND 5							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
824.7	20407	5.86	13	825.5	20415	6.01	13
836.5	20525	5.97	13	836.5	20525	5.95	13
848.3	20643	5.69	13	847.5	20635	5.61	13

LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
826.5	20425	5.93	13	829.0	20450	6.03	13
836.5	20525	5.96	13	836.5	20525	5.84	13
846.5	20625	5.45	13	844.0	20600	5.72	13

LTE BAND 7							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2502.5	20775	5.89	13	2505.0	20800	5.96	13
2535.0	21100	6.05	13	2535.0	21100	6.08	13
2567.5	21375	6.00	13	2565.0	21350	6.10	13

LTE BAND 7							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2507.5	20825	6.02	13	2510	20850	5.94	13
2535.0	21100	5.90	13	2535	21100	5.86	13
2562.5	21375	5.99	13	2560	21350	5.86	13

LTE BAND 12							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
699.7	23017	6.25	13	700.5	23025	6.19	13
707.5	23095	6.64	13	707.5	23095	6.58	13
715.3	23173	6.28	13	714.5	23165	6.12	13

LTE BAND 12							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
701.5	23035	6.17	13	704.0	23060	6.26	13
707.5	23095	6.37	13	707.5	23095	6.18	13
713.5	23155	6.31	13	711.0	23130	6.20	13

LTE BAND 13							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
779.5	23205	5.72	13	782.0	23230	5.74	13
782.0	23230	5.68	13				
784.5	23255	6.15	13				

LTE BAND 14							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
790.5	23305	6.11	13	793.0	23330	5.74	13
793	23330	5.95	13				
795.5	23355	5.63	13				

LTE BAND 17							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
706.5	23755	6.15	13	709.0	23780	6.31	13
710.0	23790	6.13	13	710.0	23790	6.20	13
713.5	23825	5.88	13	711.0	23800	6.07	13

LTE BAND 25							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1850.7	26047	6.71	13	1851.5	26055	6.41	13
1882.5	26365	6.47	13	1882.5	26365	6.60	13
1914.3	26683	6.07	13	1913.5	26675	5.98	13

LTE BAND 25							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1852.5	26065	6.36	13	1855.0	26090	6.39	13
1882.5	26365	6.18	13	1882.5	26365	6.25	13
1912.5	26665	6.03	13	1910.0	26640	6.25	13

LTE BAND 25							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1857.5	26115	6.14	13	1860.0	26140	6.10	13
1882.5	26365	6.02	13	1882.5	26365	6.09	13
1907.5	26615	6.20	13	1905.0	26590	6.19	13

LTE BAND 26							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
824.7	26797	5.80	13	825.5	26805	5.73	13
836.5	26915	5.97	13	836.5	26915	6.00	13
848.3	27033	5.71	13	847.5	27025	5.55	13

LTE BAND 26							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
826.5	26815	5.70	13	829.0	26840	5.75	13
836.5	26915	5.82	13	836.5	26915	5.93	13
846.5	27015	5.29	13	844.0	26990	5.24	13

LTE BAND 26							
Channel bandwidth: 15MHz							
Freq. (MHz)	CH	PAPR (dB)					
		64QAM	Limit				
831.5	26865	5.69	13				
836.5	26915	5.78	13				
841.5	26965	5.53	13				



LTE BAND 26 for part 90S							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
814.7	26697	5.25	13	815.5	26705	5.66	13
819.0	26740	5.58	13	819	26740	5.72	13
823.3	26783	5.92	13	822.5	26775	5.73	13

LTE BAND 26 for part 90S							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
816.5	26715	5.60	13	819.0	26740	5.91	13
819.0	26740	5.66	13				
821.5	26765	5.52	13				

LTE BAND 41							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2498.5	39675	7.71	13	2501.0	39700	9.74	13
2502.5	39715	9.35	13	2505.0	39740	5.70	13
2593.0	40620	5.76	13	2593.0	40620	5.66	13
2687.5	41565	5.68	13	2685.0	41540	5.83	13

LTE BAND 41							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2503.5	39725	5.81	13	2506.0	39750	5.72	13
2507.5	39765	7.96	13	2510.0	39790	5.56	13
2593.0	40620	8.77	13	2593.0	40620	5.52	13
2682.5	41515	6.51	13	2680.0	41490	5.62	13

LTE BAND 66							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1710.7	131979	6.31	13	1711.5	131987	6.14	13
1745.0	132322	6.39	13	1745.0	132322	6.03	13
1779.3	132665	6.10	13	1778.5	132657	6.08	13

LTE BAND 66							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1712.5	131997	6.47	13	1715.0	132022	6.05	13
1745.0	132322	6.37	13	1745.0	132322	5.98	13
1777.5	132647	6.22	13	1775.0	132622	6.01	13

LTE BAND 66							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1717.5	132047	6.01	13	1720.0	132072	5.66	13
1745.0	132322	5.94	13	1745.0	132322	5.83	13
1772.5	132597	6.04	13	1770.0	132572	6.29	13

LTE BAND 71							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
665.5	133147	6.71	13	668.0	133172	6.35	13
680.5	133297	6.42	13	680.5	133297	6.73	13
695.5	133447	6.32	13	693.0	133422	6.31	13

LTE BAND 71							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
670.5	133197	6.17	13	673.0	133222	6.34	13
680.5	133297	6.37	13	680.5	133297	6.57	13
690.5	133397	6.08	13	688.0	133372	6.16	13

## Test Plot(s)

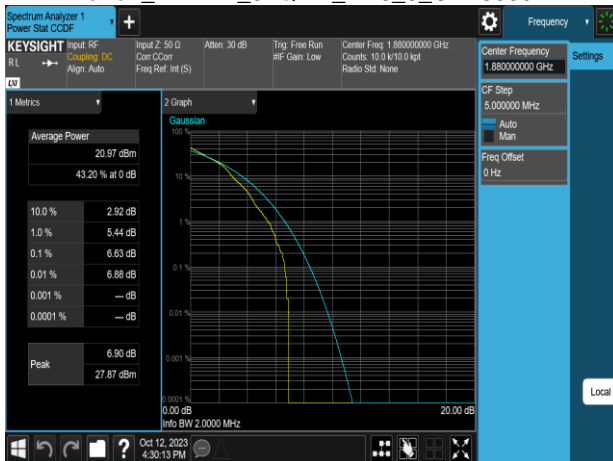
Band2\_1.4MHz\_64QAM\_RB6\_0\_CH18607



Band2\_3MHz\_64QAM\_RB15\_0\_CH18615



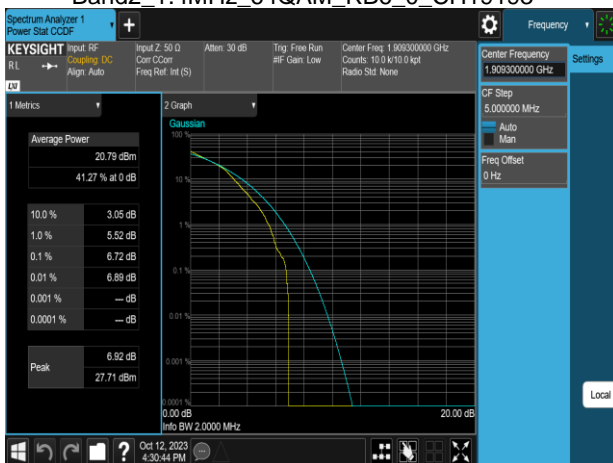
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Band2\_3MHz\_64QAM\_RB15\_0\_CH18900



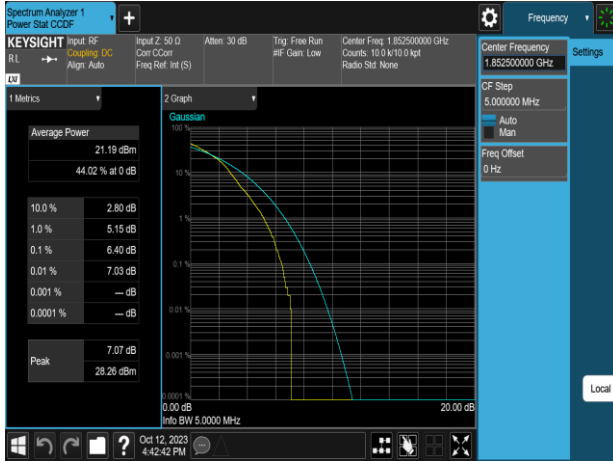
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Band2\_3MHz\_64QAM\_RB15\_0\_CH19185



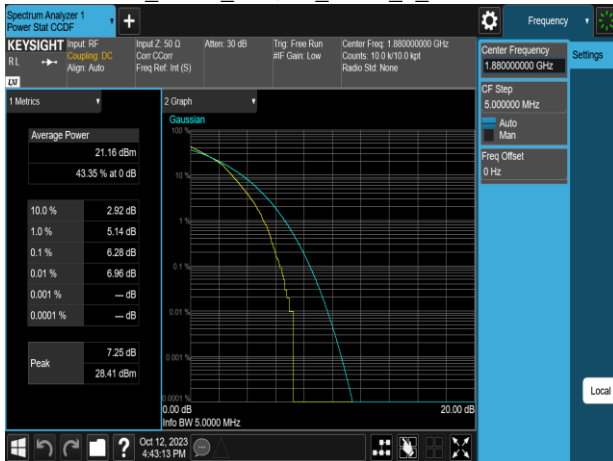
Band2\_5MHz\_64QAM\_RB25\_0\_CH18625



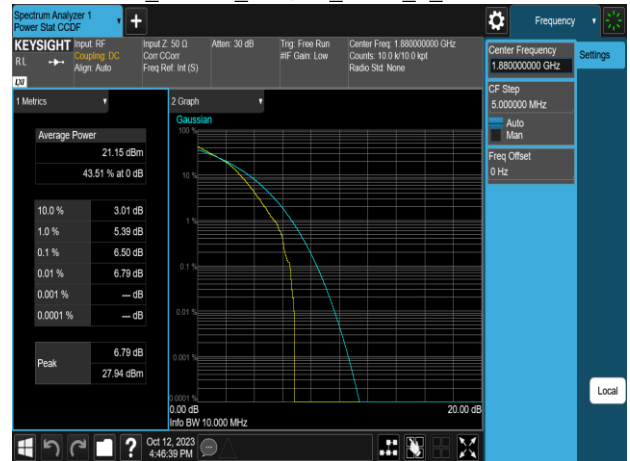
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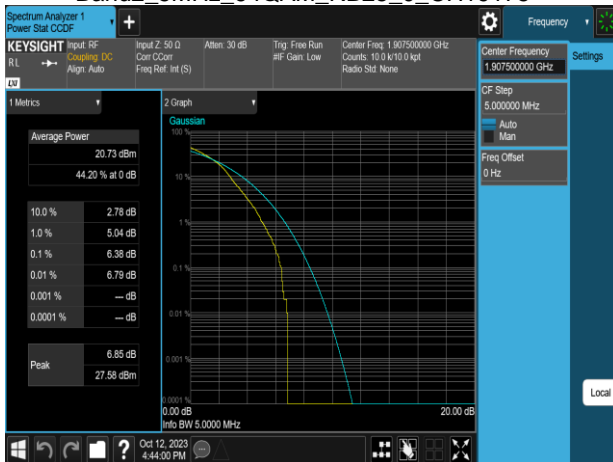
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Band2\_10MHz\_64QAM\_RB50\_0\_CH18900



Band2\_5MHz\_64QAM\_RB25\_0\_CH19175



Band2\_10MHz\_64QAM\_RB50\_0\_CH19150



Band2\_15MHz\_64QAM\_RB75\_0\_CH18675



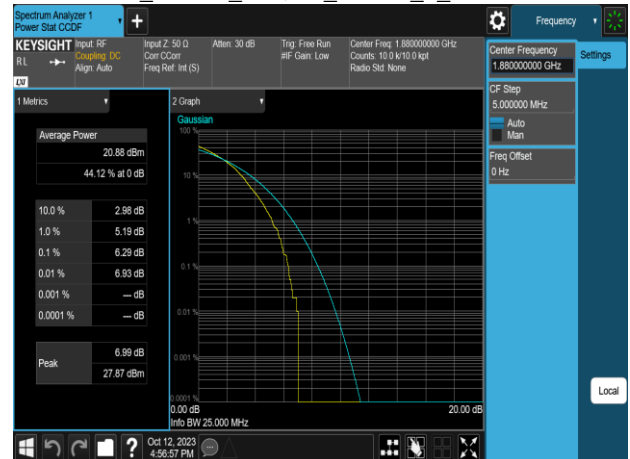
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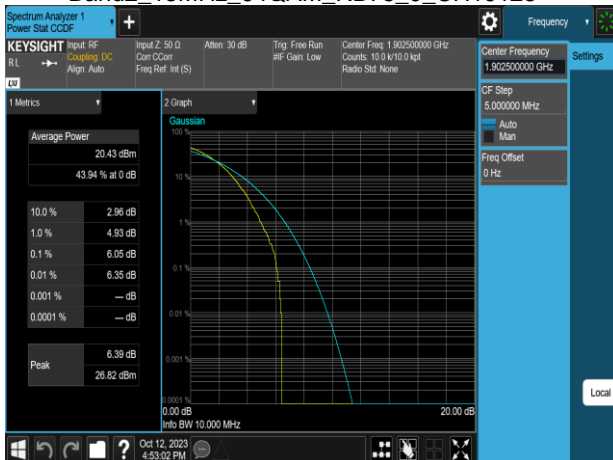
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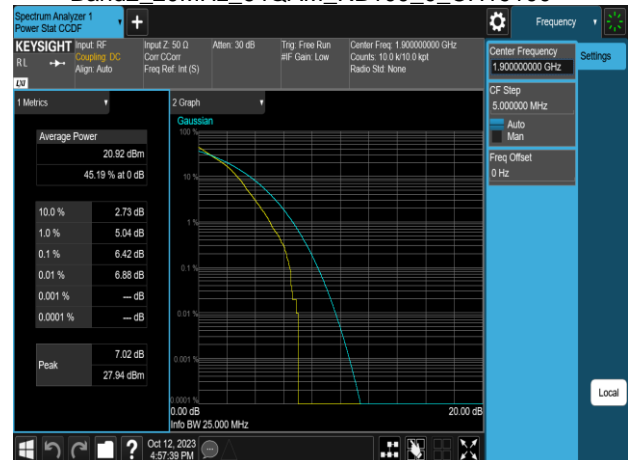
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Band2\_15MHz\_64QAM\_RB75\_0\_CH19125



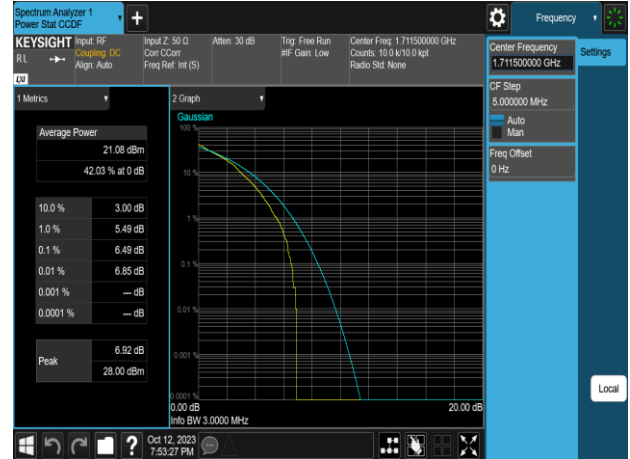
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Band4 1.4MHz\_64QAM\_RB6\_0\_CH19957



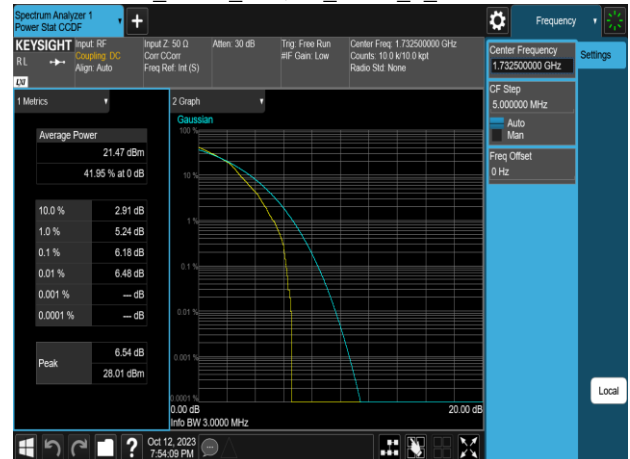
Band4 3MHz\_64QAM\_RB15\_0\_CH19965



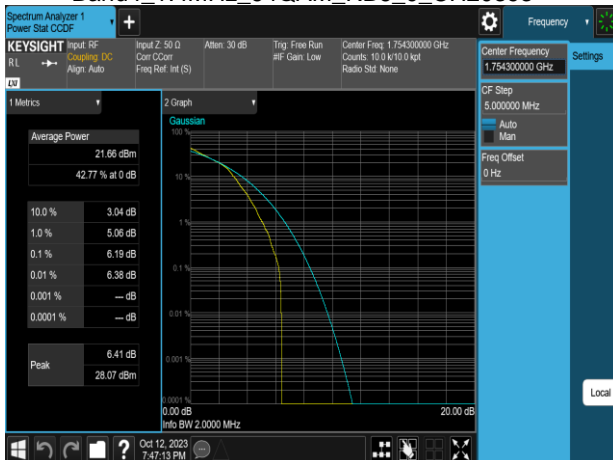
Band4 1.4MHz\_64QAM\_RB6\_0\_CH20175



Band4 3MHz\_64QAM\_RB15\_0\_CH20175



Band4 1.4MHz\_64QAM\_RB6\_0\_CH20393



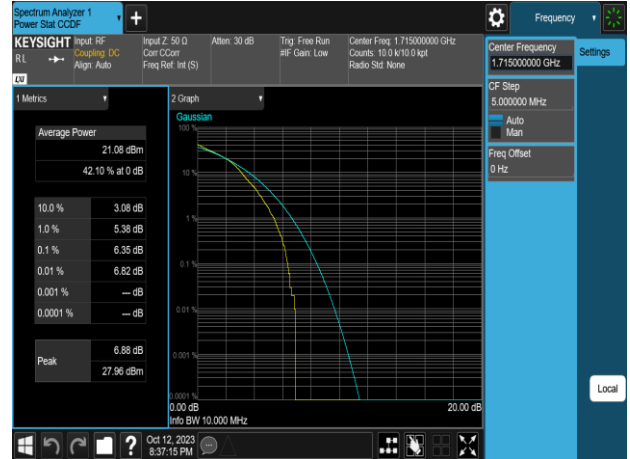
Band4 3MHz\_64QAM\_RB15\_0\_CH20385



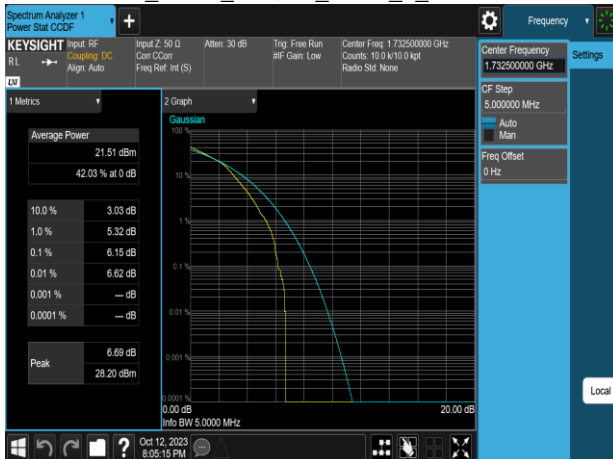
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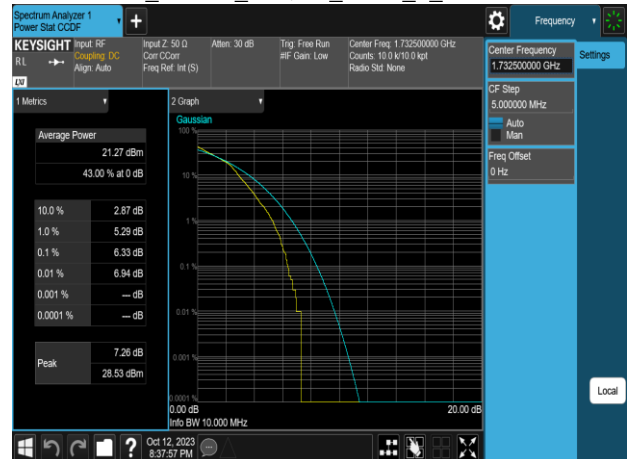
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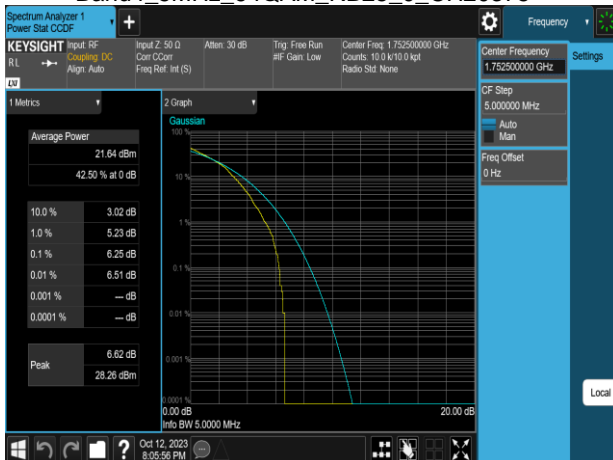
Band4\_5MHz\_64QAM\_RB25\_0\_CH20175



Band4\_10MHz\_64QAM\_RB50\_0\_CH20175



Band4\_5MHz\_64QAM\_RB25\_0\_CH20375

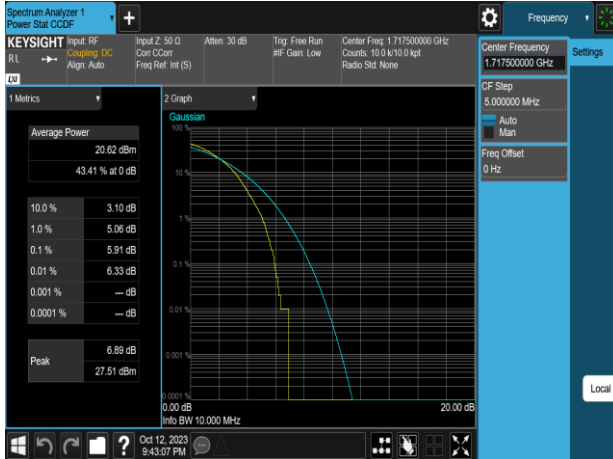


Band4\_10MHz\_64QAM\_RB50\_0\_CH20350

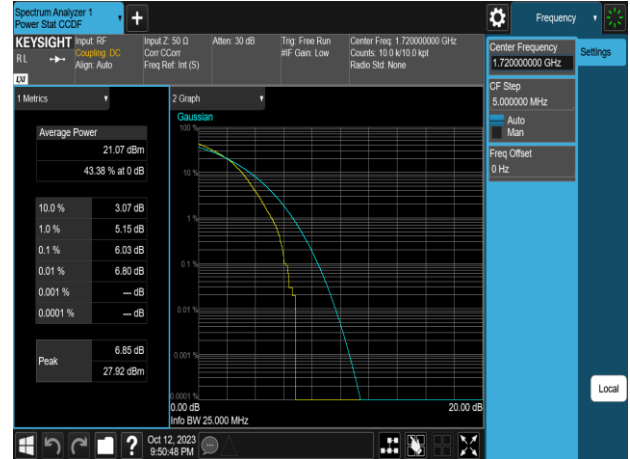




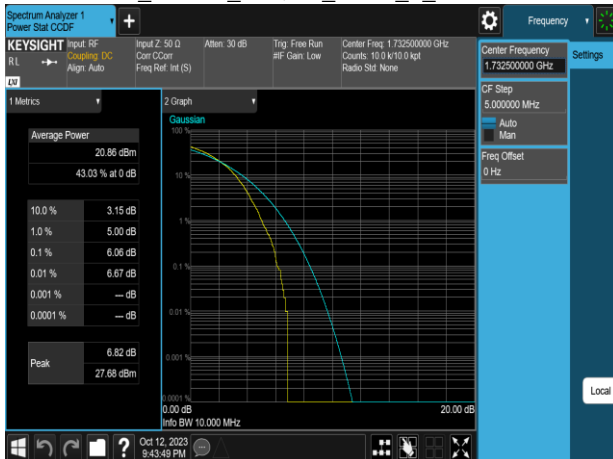
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Band4\_20MHz\_64QAM\_RB100\_0\_CH20050



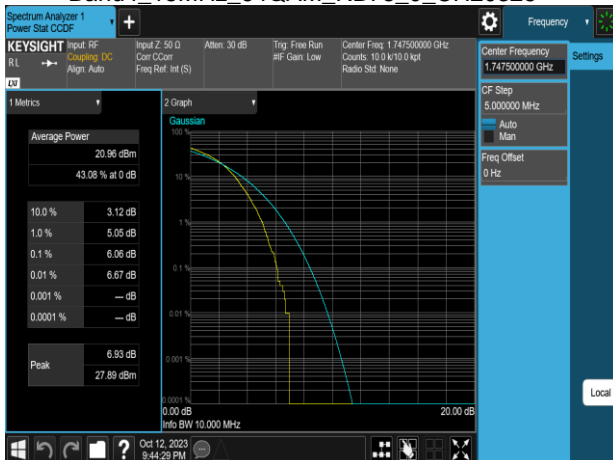
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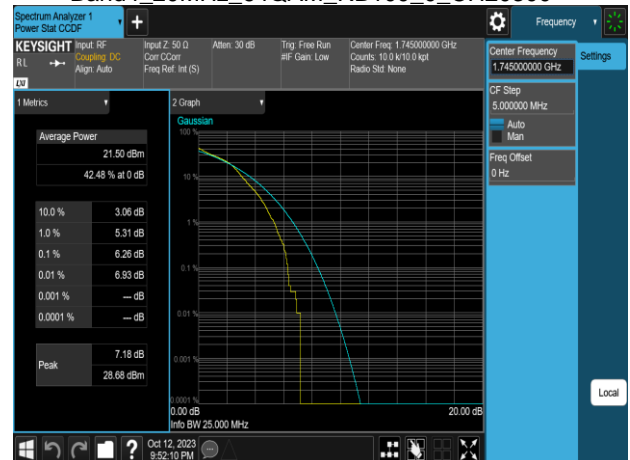
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Band4\_15MHz\_64QAM\_RB75\_0\_CH20325



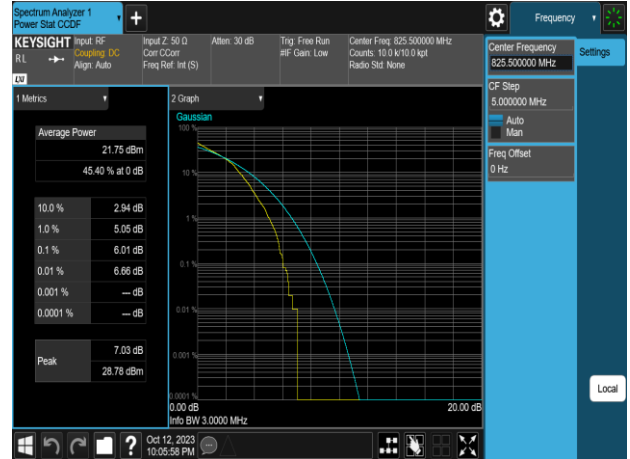
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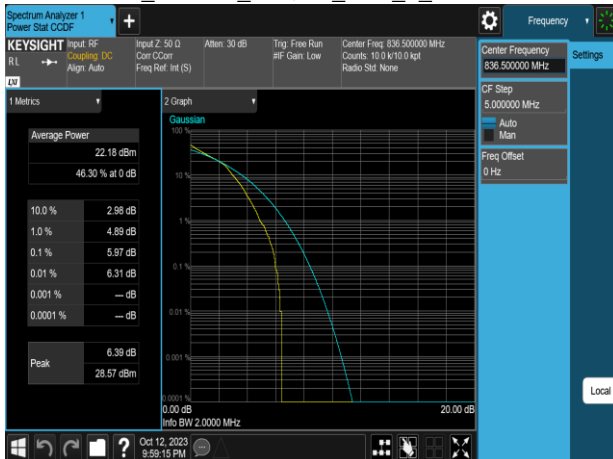
Band5\_1.4MHz\_64QAM\_RB6\_0\_CH20407



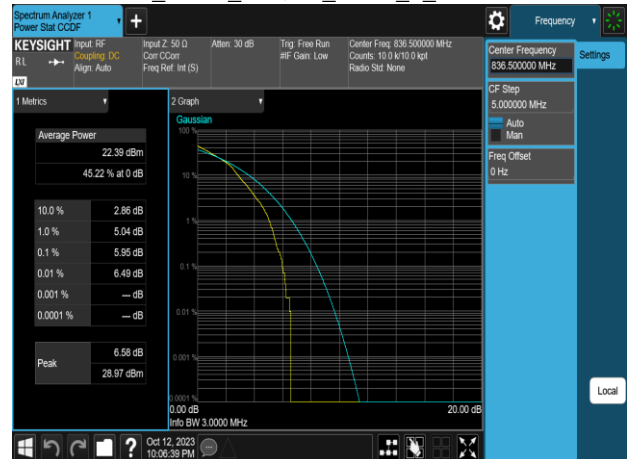
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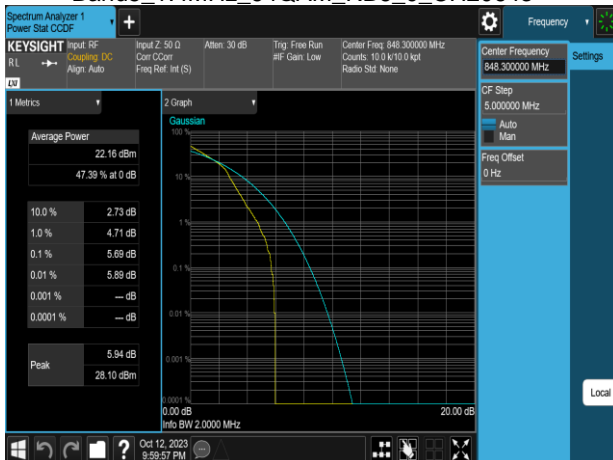
Band5\_1.4MHz\_64QAM\_RB6\_0\_CH20525



Band5\_3MHz\_64QAM\_RB15\_0\_CH20525



Band5\_1.4MHz\_64QAM\_RB6\_0\_CH20643



Band5\_3MHz\_64QAM\_RB15\_0\_CH20635

