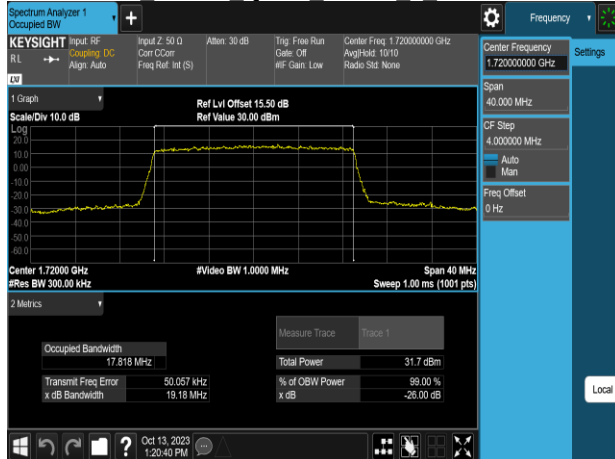
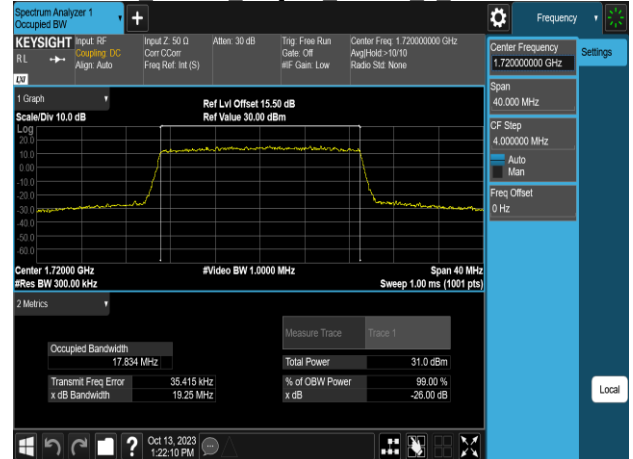


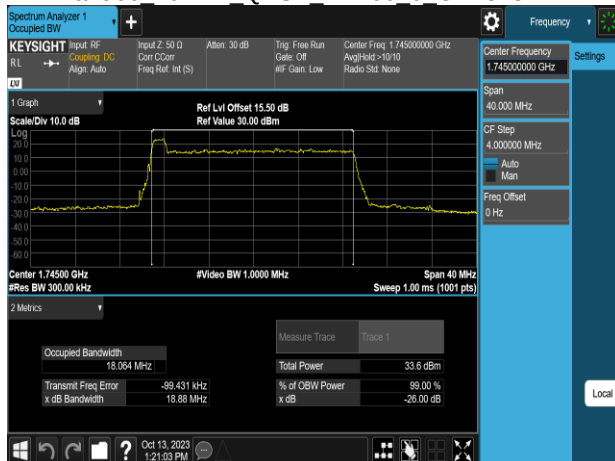
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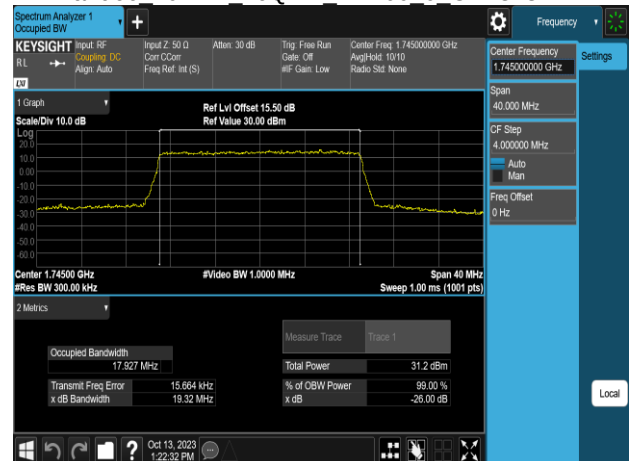
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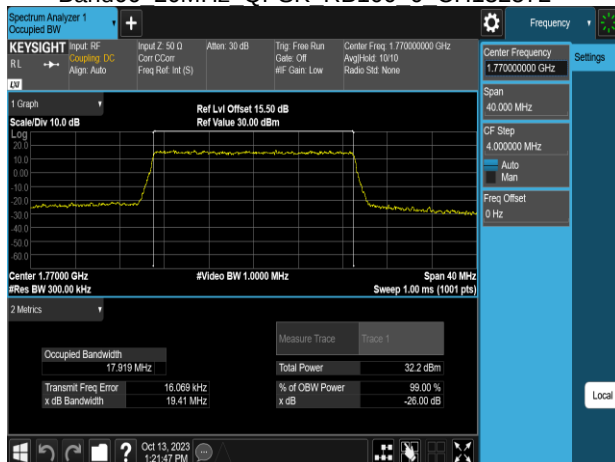
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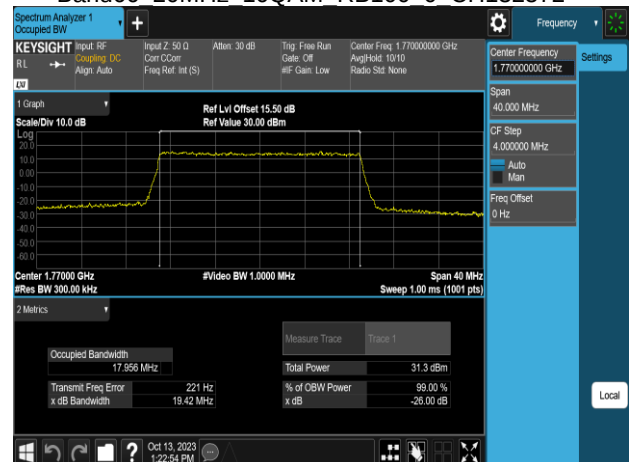
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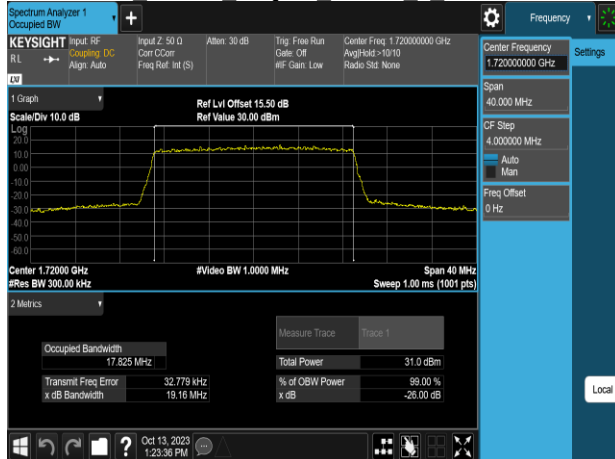
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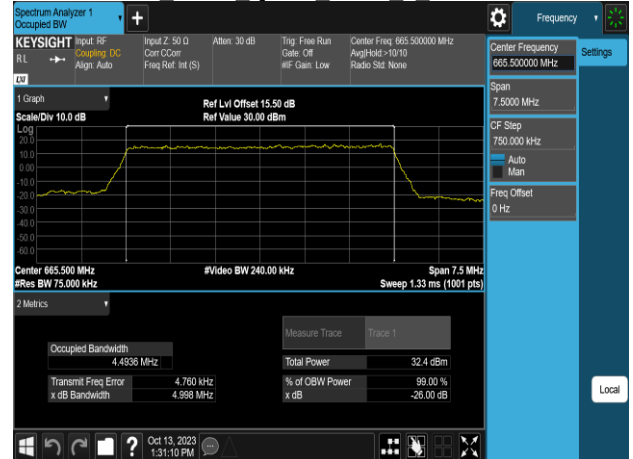
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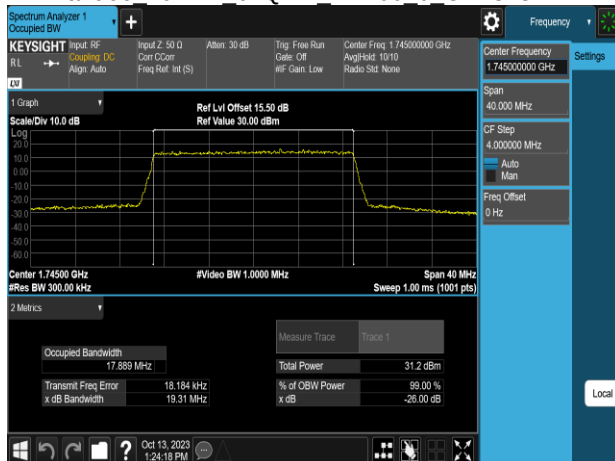
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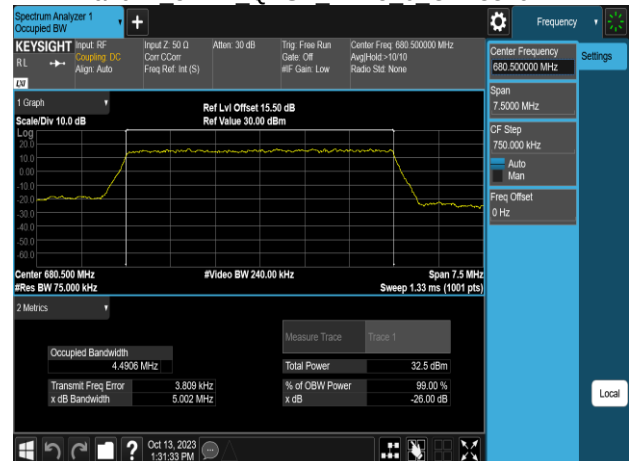
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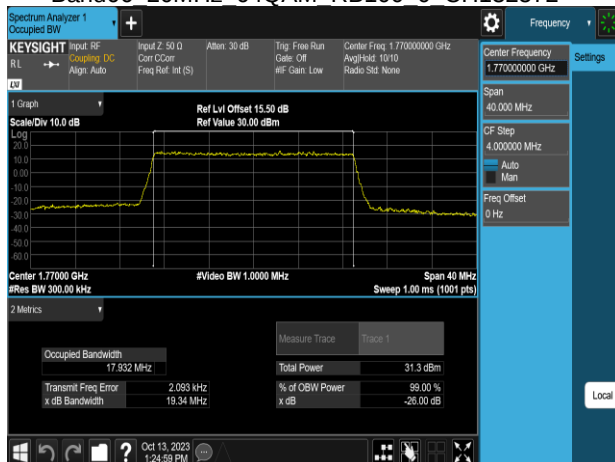
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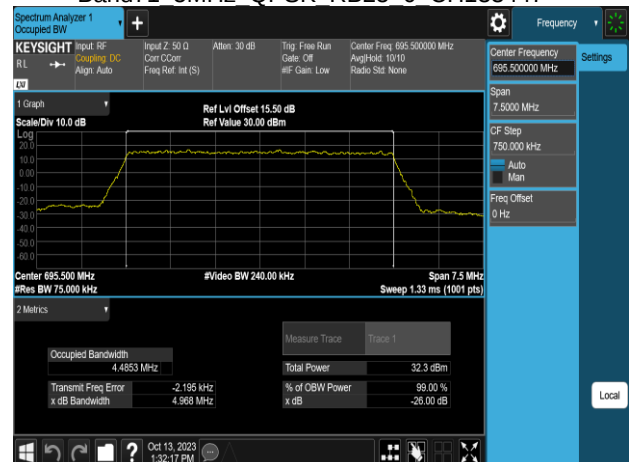
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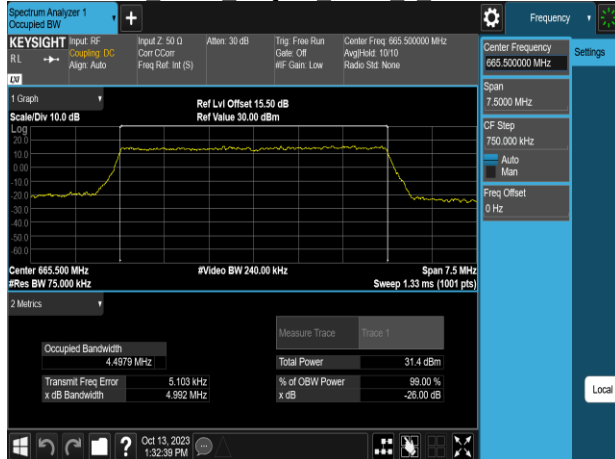
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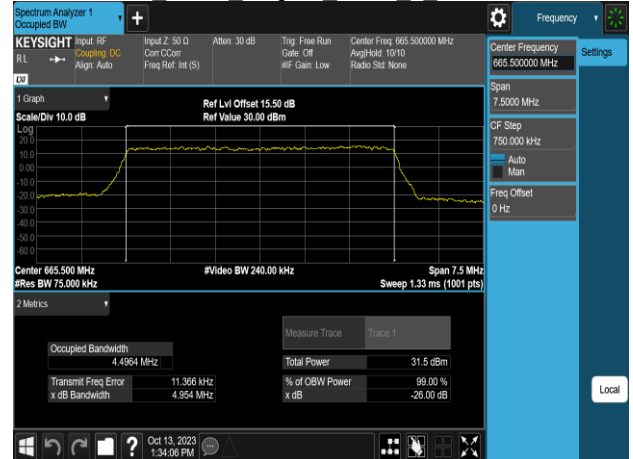
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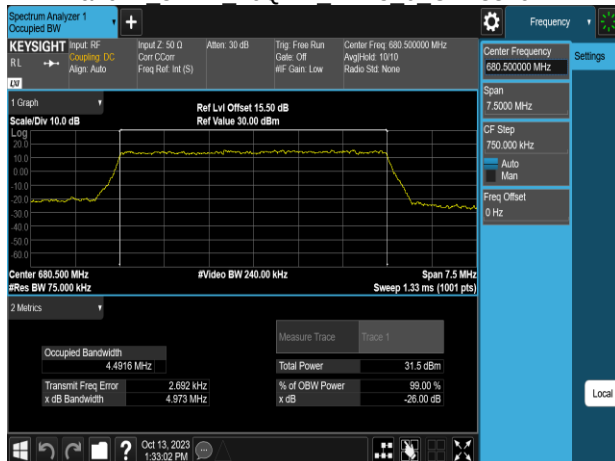
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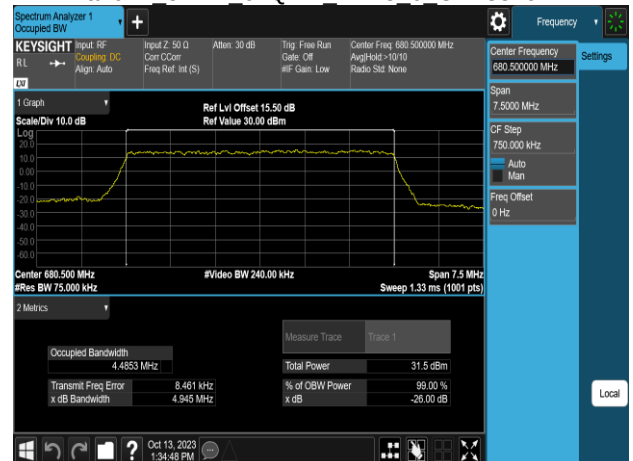
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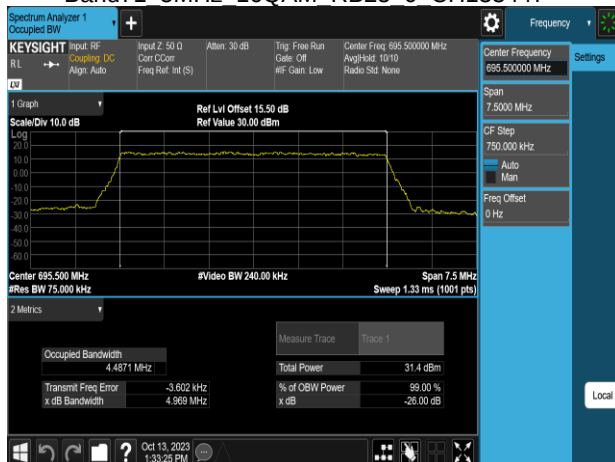
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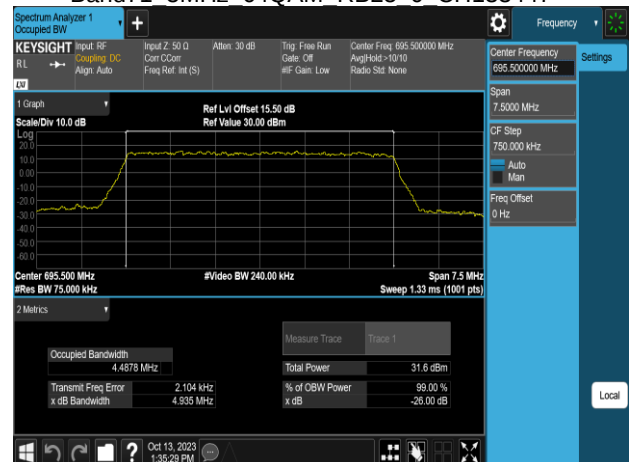
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Band71 5MHz 16QAM RB25 0 CH133447

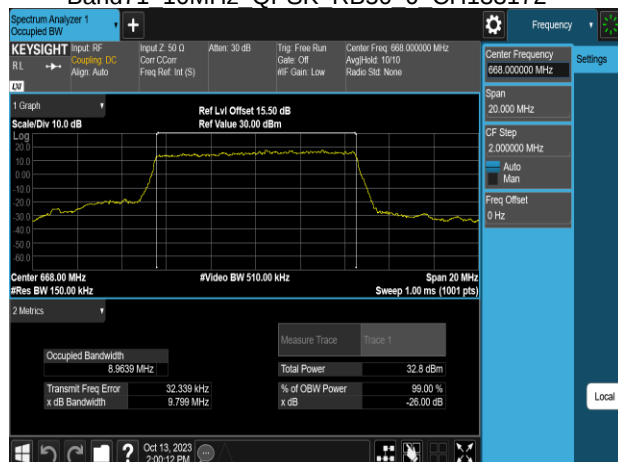


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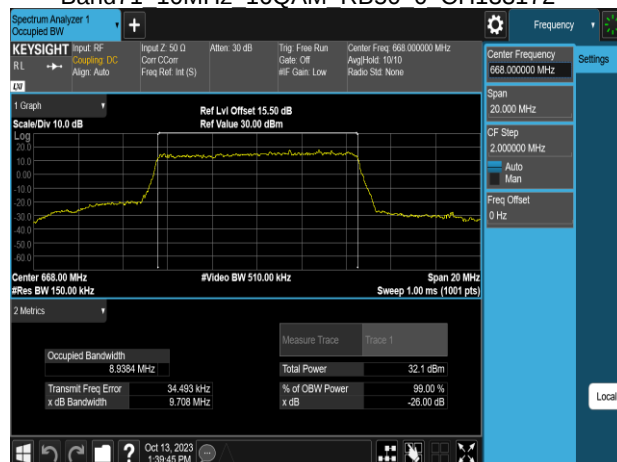


Report No.: TMWK2305001412KR

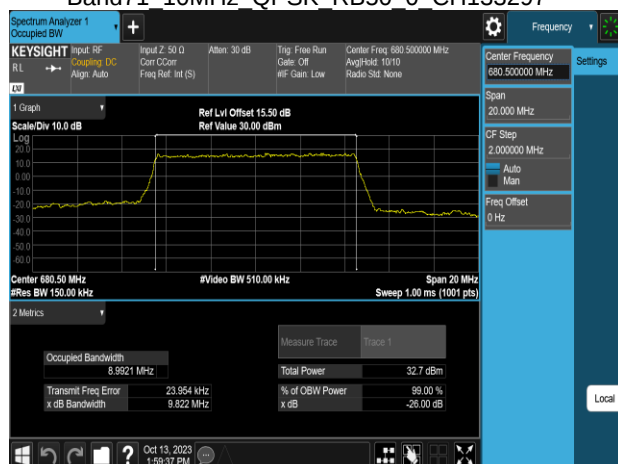
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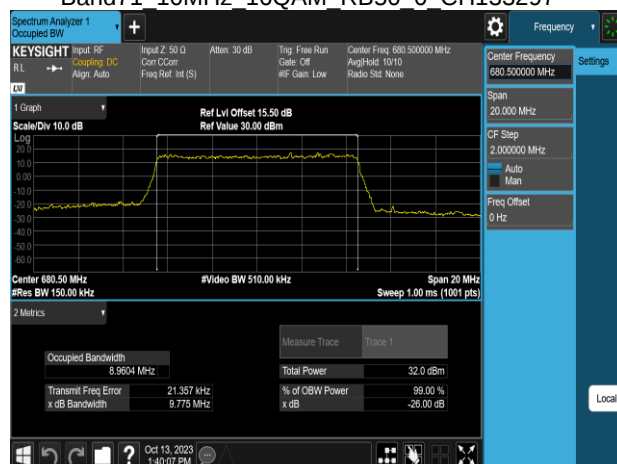
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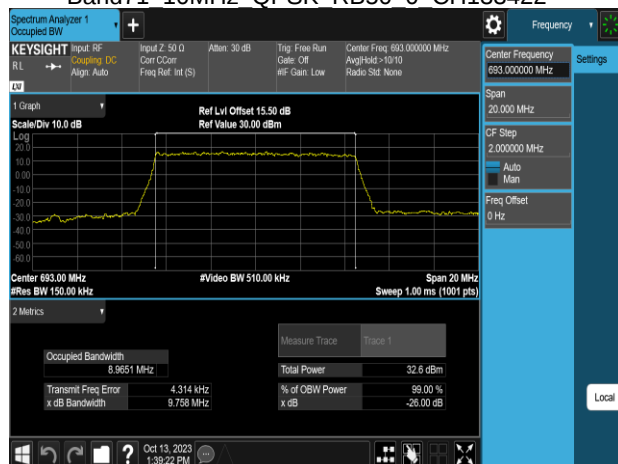
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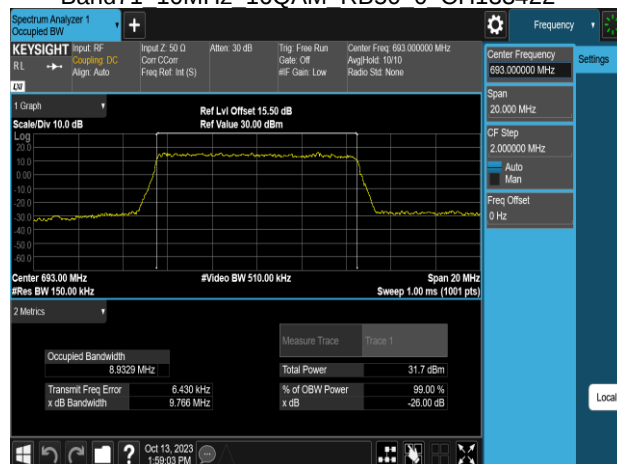
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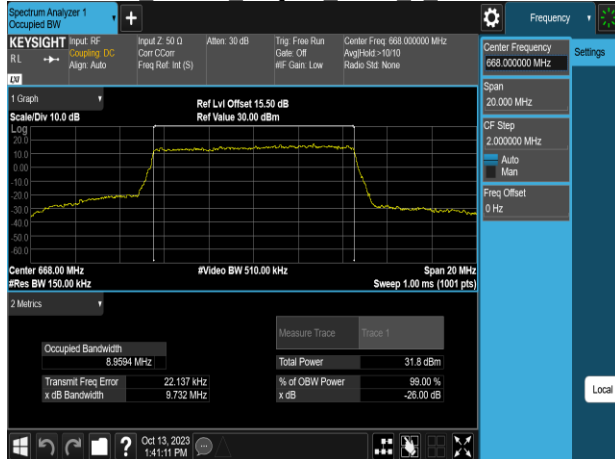
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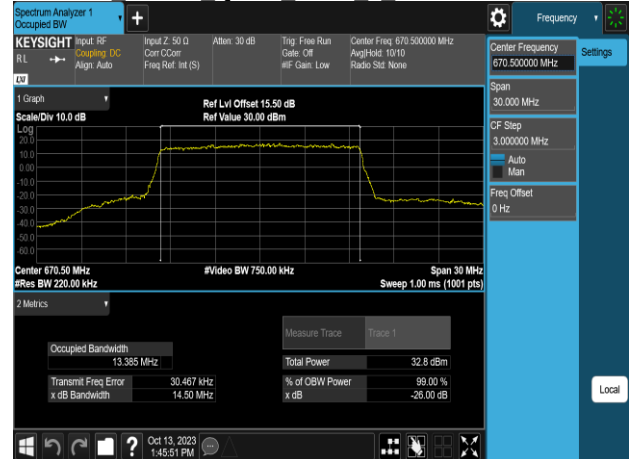
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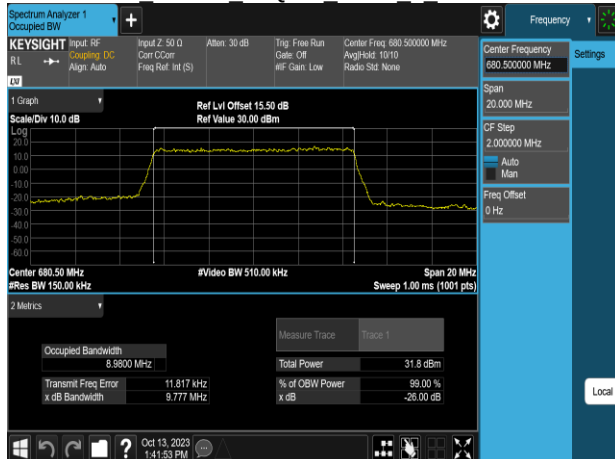
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15MHz QPSK RB75 0 CH133197



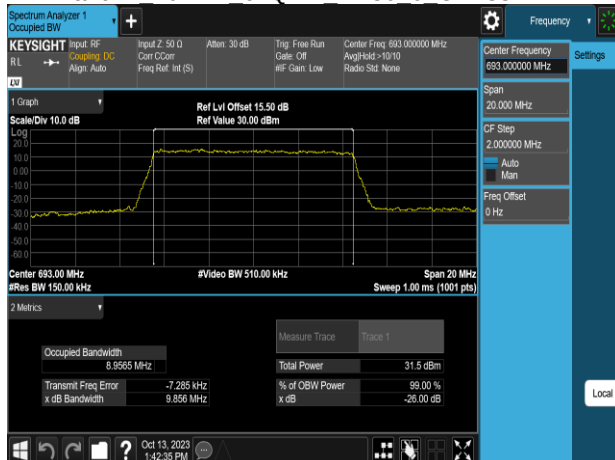
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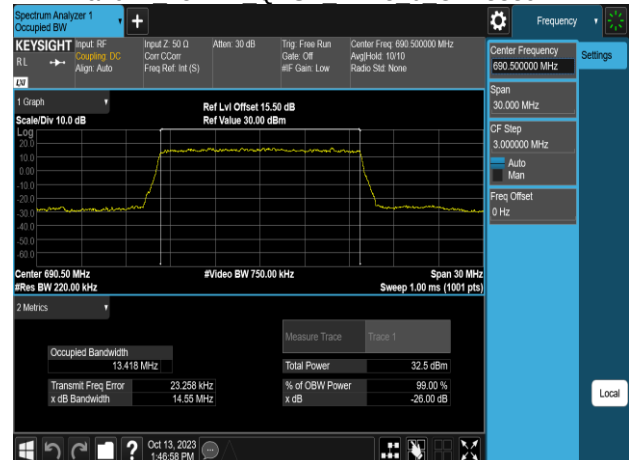
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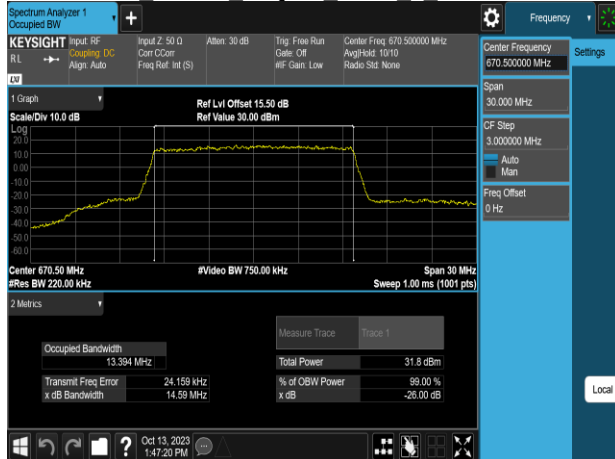
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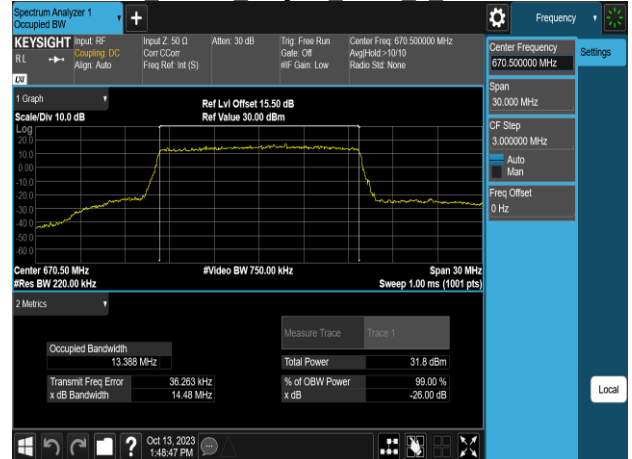
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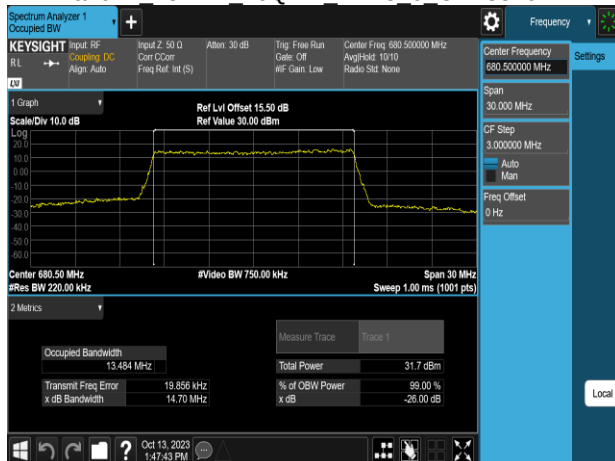
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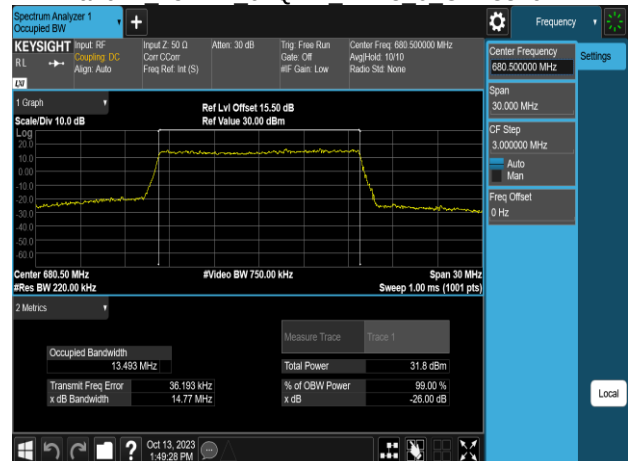
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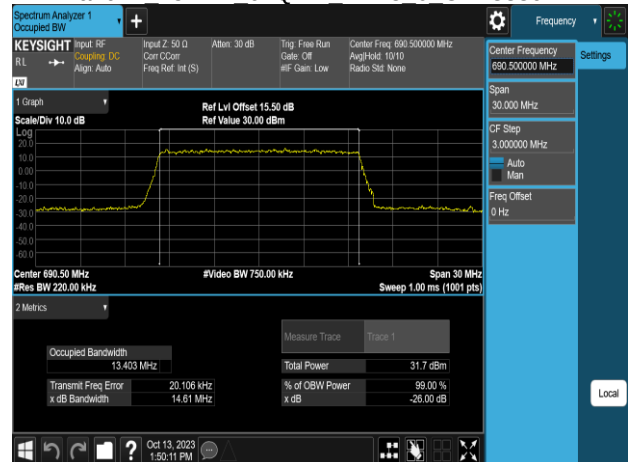
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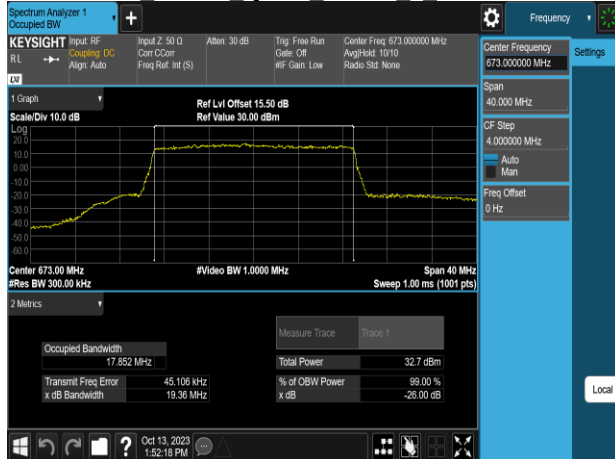
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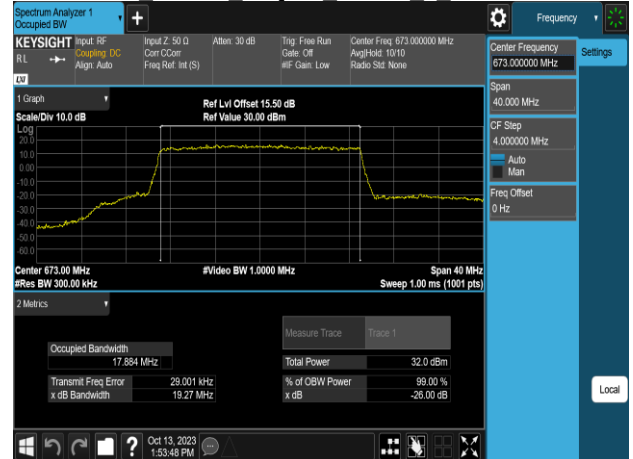
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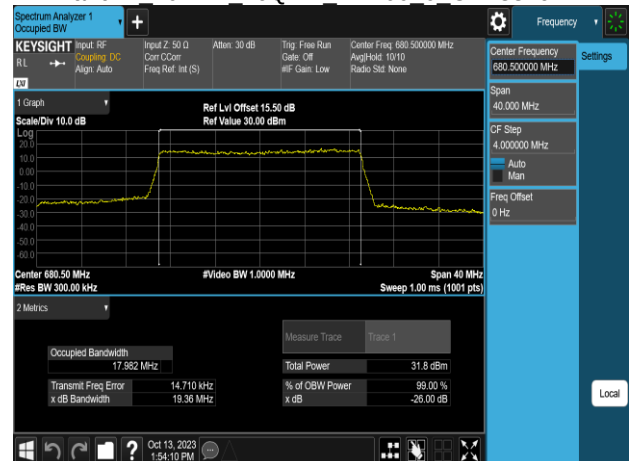
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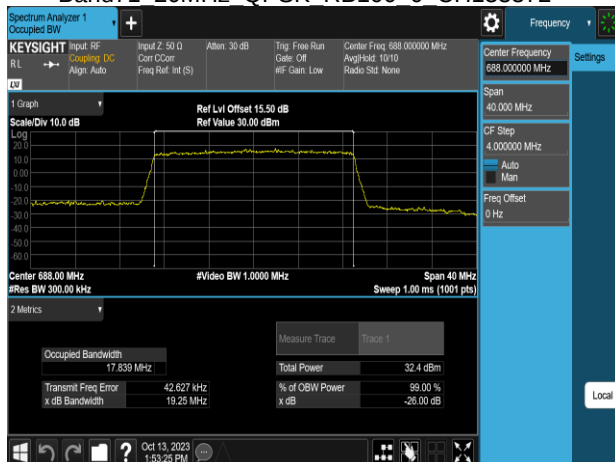
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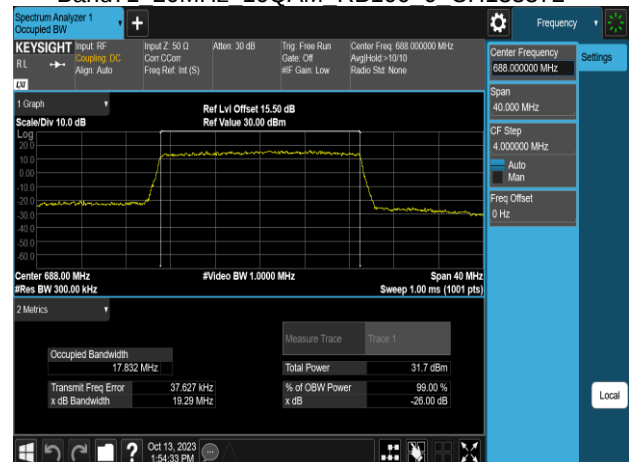
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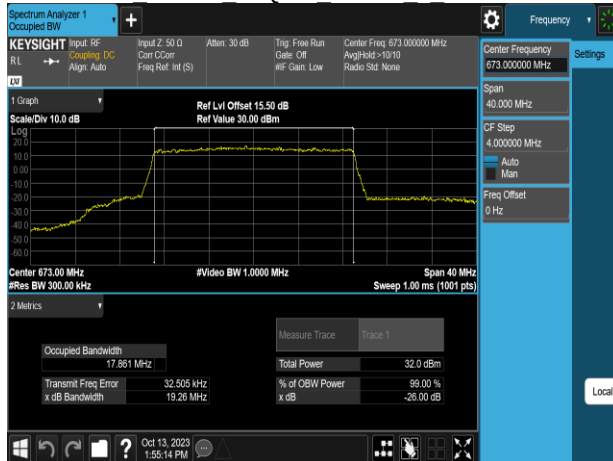


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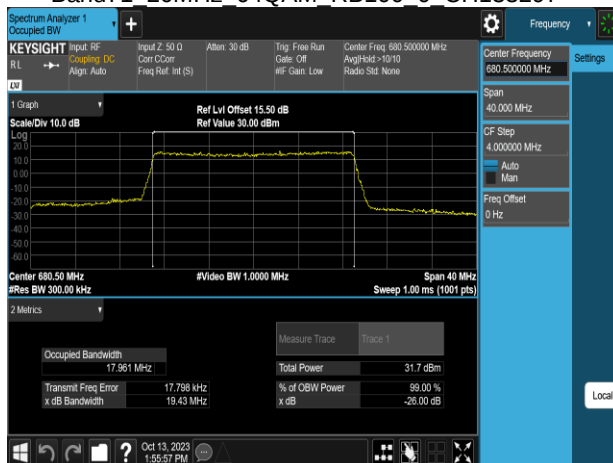


Report No.: TMWK2305001412KR

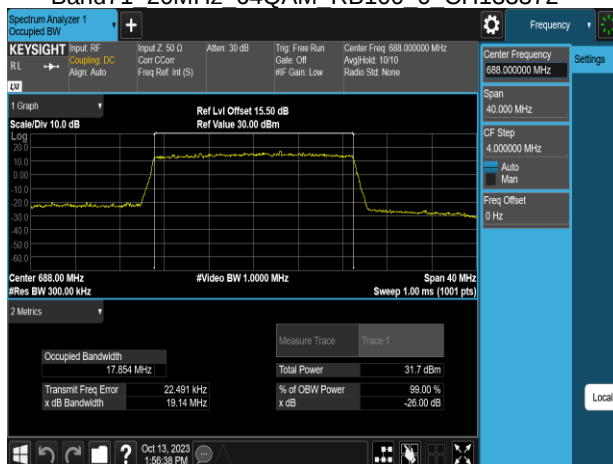
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Band71 20MHz 64QAM RB100 0 CH133297



Band71 20MHz 64QAM RB100 0 CH133372



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

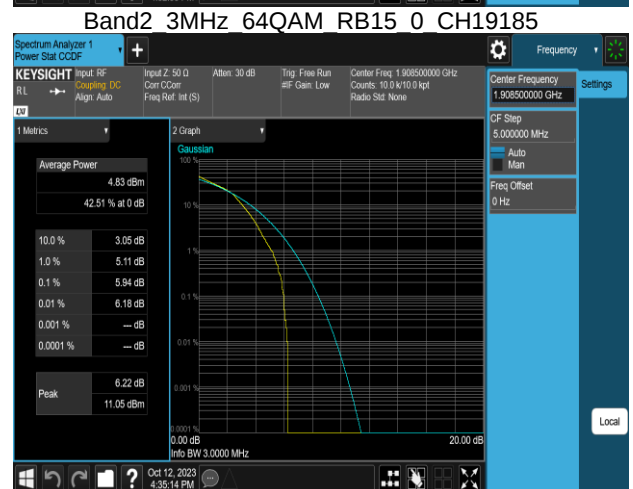
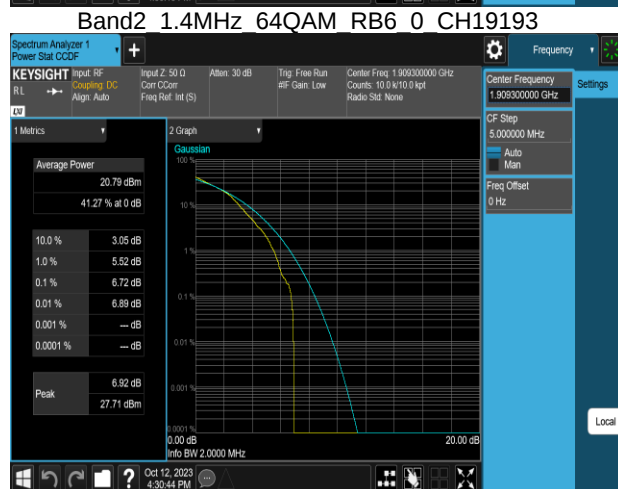
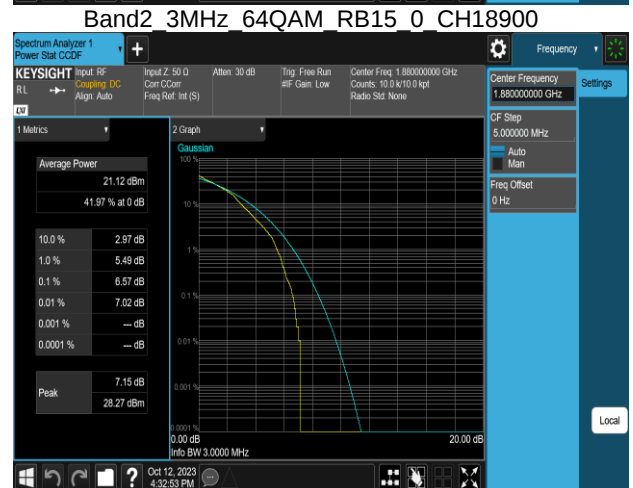
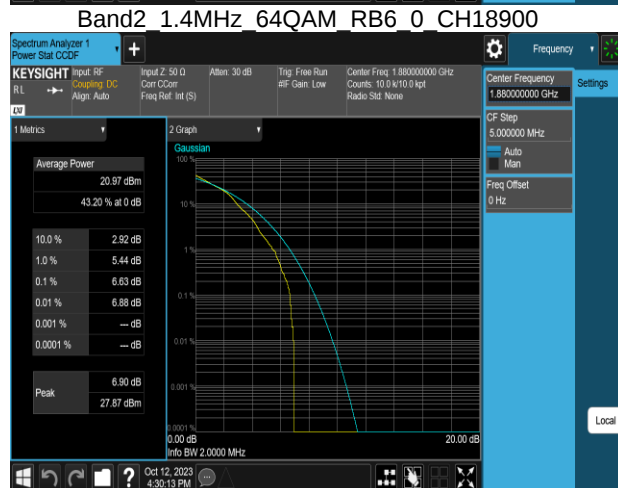
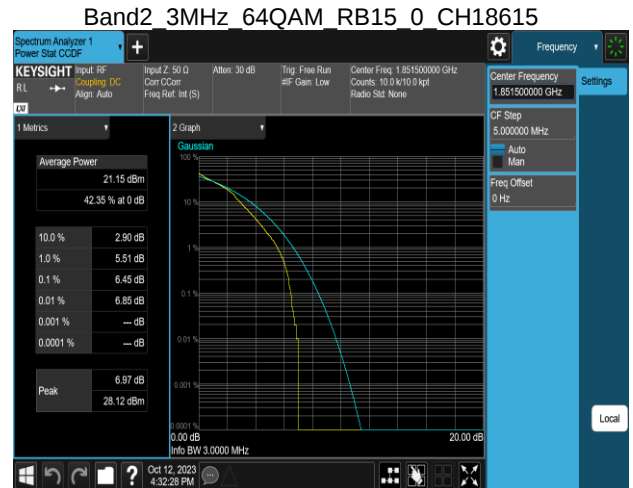
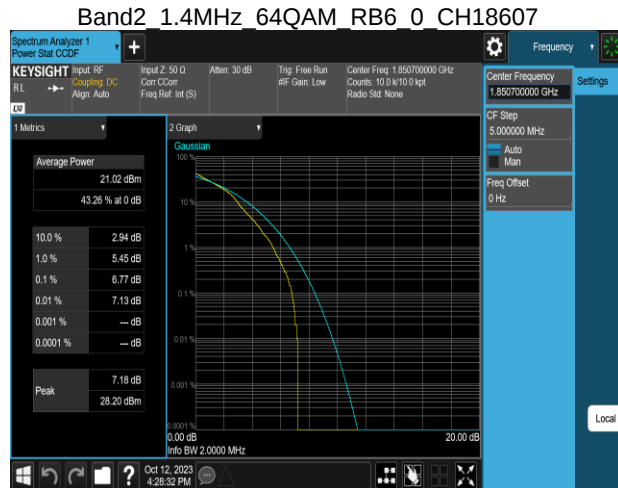
LTE BAND 66							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1712.5	131997	6.47	13	1715.0	132022	6.05	13
1745.0	132322	6.37	13	1745.0	132322	5.98	13
1777.5	132647	6.22	13	1775.0	132622	6.01	13

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)



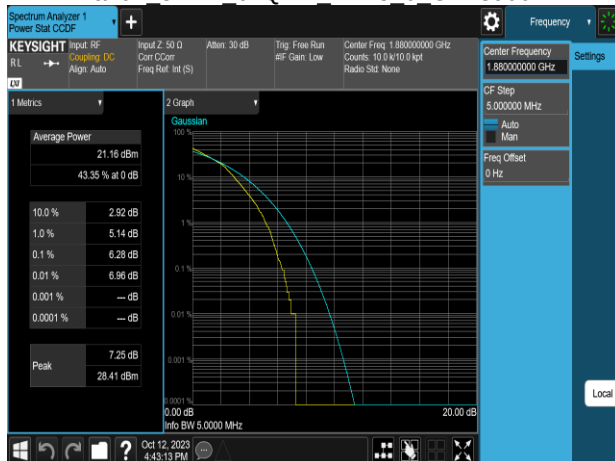
Band2 5MHz 64QAM RB25 0 CH18625



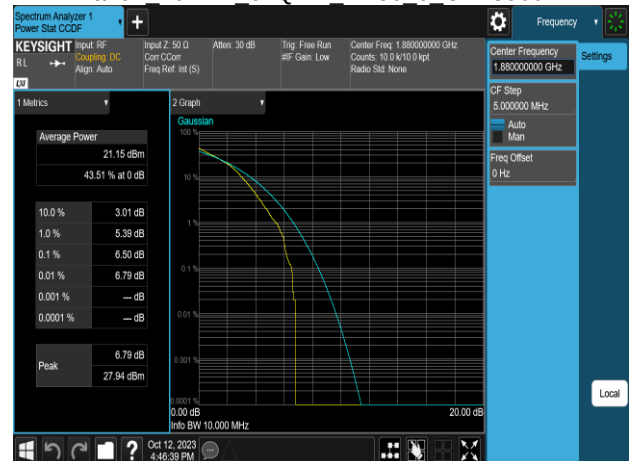
Band2 10MHz 64QAM RB50 0 CH18650



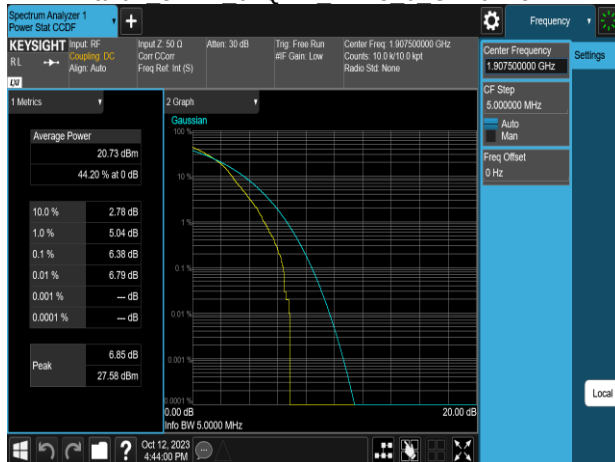
Band2 5MHz 64QAM RB25 0 CH18900



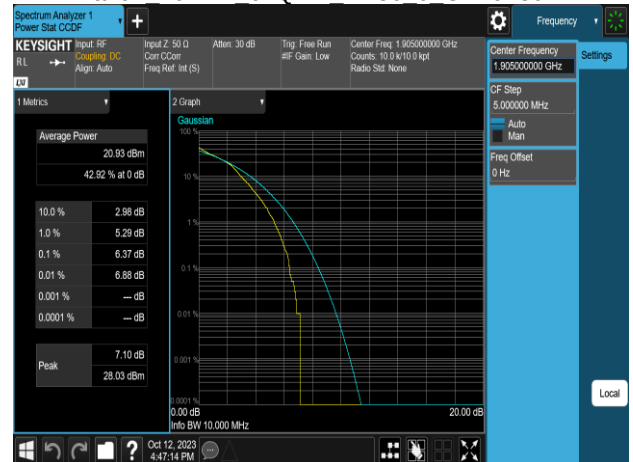
Band2 10MHz 64QAM RB50 0 CH18900



Band2 5MHz 64QAM RB25 0 CH19175



Band2 10MHz 64QAM RB50 0 CH19150



Band2 15MHz 64QAM RB75 0 CH18675



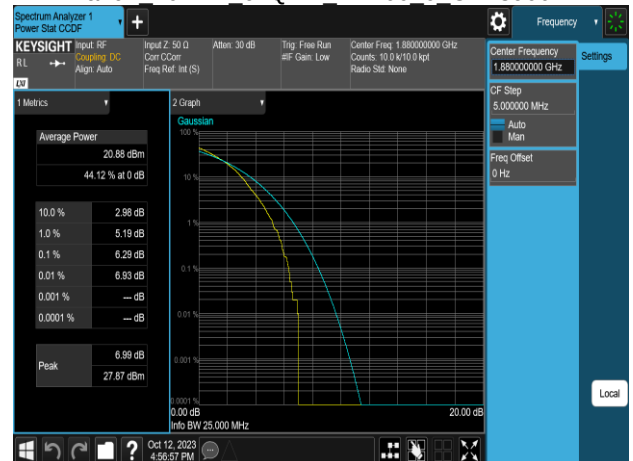
Band2 20MHz 64QAM RB100 0 CH18700



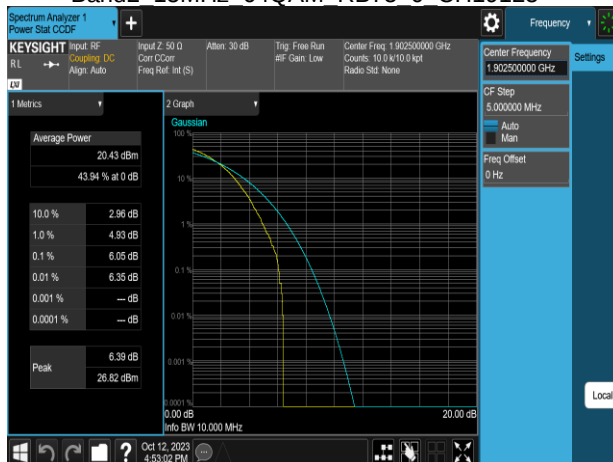
Band2 15MHz 64QAM RB75 0 CH18900



Band2 20MHz 64QAM RB100 0 CH18900



Band2 15MHz 64QAM RB75 0 CH19125



Band2 20MHz 64QAM RB100 0 CH19100



Band4 1.4MHz 64QAM RB6 0 CH19957



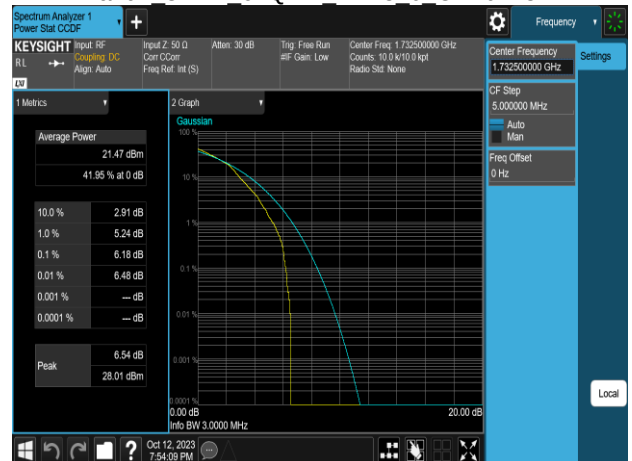
Band4 3MHz 64QAM RB15 0 CH19965



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



Band4 5MHz 64QAM RB25 0 CH19975



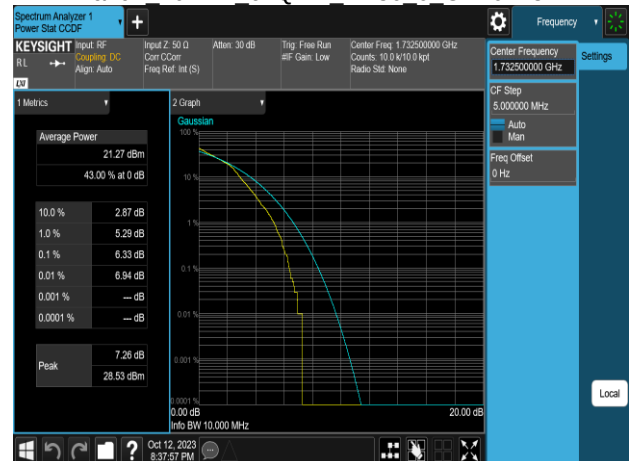
Band4 10MHz 64QAM RB50 0 CH20000



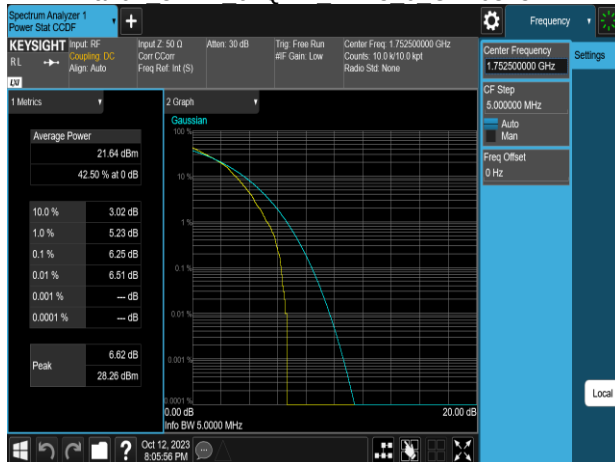
Band4 5MHz 64QAM RB25 0 CH20175



Band4 10MHz 64QAM RB50 0 CH20175



Band4 5MHz 64QAM RB25 0 CH20375



Band4 10MHz 64QAM RB50 0 CH20350



Band4 15MHz 64QAM RB75 0 CH20025



Band4 20MHz 64QAM RB100 0 CH20050



Band4 15MHz 64QAM RB75 0 CH20175



Band4 20MHz 64QAM RB100 0 CH20175



Band4 15MHz 64QAM RB75 0 CH20325



Band4 20MHz 64QAM RB100 0 CH20300



Band5 1.4MHz 64QAM RB6 0 CH20407



Band5 3MHz 64QAM RB15 0 CH20415



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

