

FREQUENCY STABILITY

Test Result

Voltage												
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
Band4 1	10MHz	QPSK	39700	50RB #0	VN	NT	4830.00	1.931228	2496.53853	---	2496-2690	PASS
Band4 1	10MHz	QPSK	39700	50RB #0	VL	NT	4870.00	1.947221	2496.53867	---	2496-2690	PASS
Band4 1	10MHz	QPSK	39700	50RB #0	VH	NT	4800.00	1.919232	2496.5385	---	2496-2690	PASS
Band4 1	10MHz	QPSK	41540	50RB #0	VN	NT	-1240.00	-0.461825	---	2689.46631	2496-2690	PASS
Band4 1	10MHz	QPSK	41540	50RB #0	VL	NT	-1280.00	-0.476723	---	2689.46622	2496-2690	PASS
Band4 1	10MHz	QPSK	41540	50RB #0	VH	NT	-1350.00	-0.502793	---	2689.4664	2496-2690	PASS

Temperature												
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
Band4 1	10MHz	QPSK	39700	50RB #0	NV	-30	4650.00	1.859256	2496.53835	---	2496-2690	PASS
Band4 1	10MHz	QPSK	39700	50RB #0	NV	-20	4820.00	1.927229	2496.53852	---	2496-2690	PASS
Band4 1	10MHz	QPSK	39700	50RB #0	NV	-10	4820.00	1.927229	2496.53842	---	2496-2690	PASS
Band4 1	10MHz	QPSK	39700	50RB #0	NV	0	4830.00	1.931228	2496.53858	---	2496-2690	PASS
Band4 1	10MHz	QPSK	39700	50RB #0	NV	10	4780.00	1.911236	2496.53848	---	2496-2690	PASS
Band4 1	10MHz	QPSK	39700	50RB #0	NV	20	4820.00	1.927229	2496.53857	---	2496-2690	PASS
Band4 1	10MHz	QPSK	39700	50RB #0	NV	30	4710.00	1.883247	2496.53851	---	2496-2690	PASS
Band4 1	10MHz	QPSK	39700	50RB #0	NV	40	4700.00	1.879248	2496.5383	---	2496-2690	PASS
Band4 1	10MHz	QPSK	39700	50RB #0	NV	50	4780.00	1.911236	2496.53853	---	2496-2690	PASS
Band4 1	10MHz	QPSK	41540	50RB #0	NV	-30	-1660.00	-0.618250	---	2689.46604	2496-2690	PASS
Band4 1	10MHz	QPSK	41540	50RB #0	NV	-20	-1580.00	-0.588454	---	2689.46597	2496-2690	PASS
Band4 1	10MHz	QPSK	41540	50RB #0	NV	-10	-1240.00	-0.461825	---	2689.46626	2496-2690	PASS
Band4	10MHz	QPSK	41540	50RB	NV	0	-1870.	-0.696	---	2689.	2496-	PASS



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1	z			#0			00	462		46613	2690	
Band4 1	10MH z	QPSK	41540	50RB #0	NV	10	-1300. 00	-0.484 171	---	2689. 4661	2496- 2690	PASS
Band4 1	10MH z	QPSK	41540	50RB #0	NV	20	-1360. 00	-0.506 518	---	2689. 46619	2496- 2690	PASS
Band4 1	10MH z	QPSK	41540	50RB #0	NV	30	-1160. 00	-0.432 030	---	2689. 46634	2496- 2690	PASS
Band4 1	10MH z	QPSK	41540	50RB #0	NV	40	-1630. 00	-0.607 076	---	2689. 46602	2496- 2690	PASS
Band4 1	10MH z	QPSK	41540	50RB #0	NV	50	-1540. 00	-0.573 557	---	2689. 46616	2496- 2690	PASS



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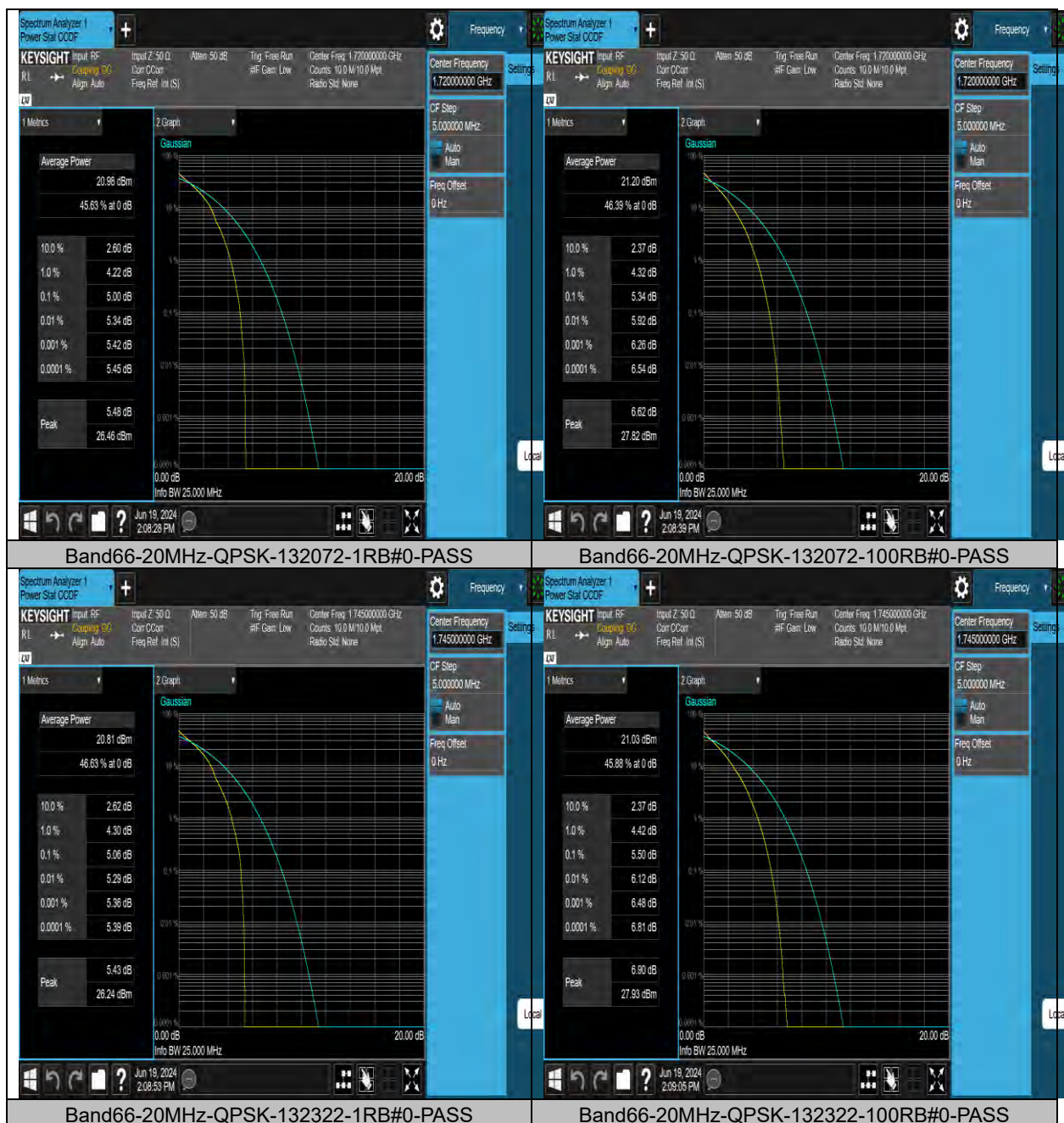
LTE BAND66 (INCLUDING LTE BAND4).

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band66	20MHz	QPSK	132072	1RB#0	5.00	13	PASS
Band66	20MHz	QPSK	132072	100RB#0	5.34	13	PASS
Band66	20MHz	QPSK	132322	1RB#0	5.06	13	PASS
Band66	20MHz	QPSK	132322	100RB#0	5.50	13	PASS
Band66	20MHz	QPSK	132572	1RB#0	5.26	13	PASS
Band66	20MHz	QPSK	132572	100RB#0	5.51	13	PASS

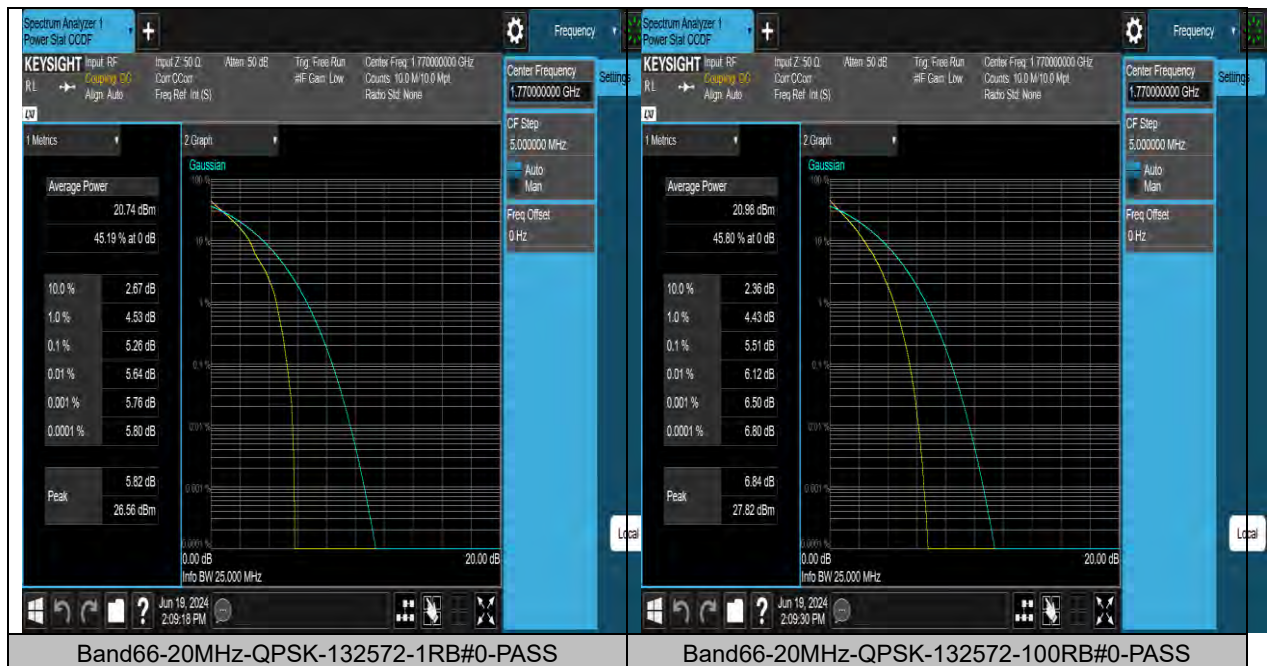
Test Graphs





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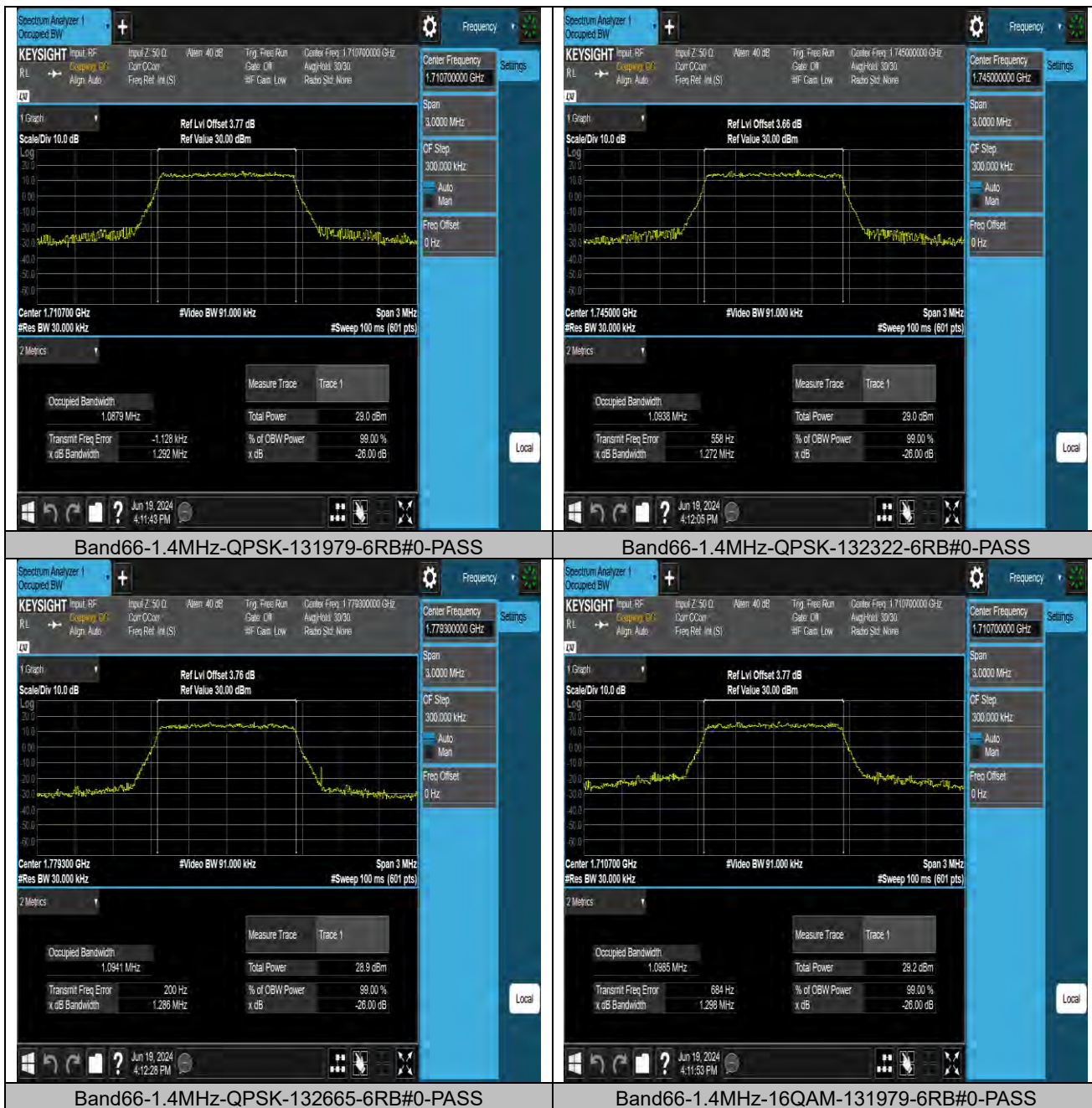


26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band66	1.4MHz	QPSK	131979	6RB#0	1.0879	1.292	PASS
Band66	1.4MHz	QPSK	132322	6RB#0	1.0938	1.272	PASS
Band66	1.4MHz	QPSK	132665	6RB#0	1.0941	1.286	PASS
Band66	1.4MHz	16QAM	131979	6RB#0	1.0985	1.298	PASS
Band66	1.4MHz	16QAM	132322	6RB#0	1.0967	1.299	PASS
Band66	1.4MHz	16QAM	132665	6RB#0	1.0877	1.294	PASS
Band66	3MHz	QPSK	131987	15RB#0	2.6798	2.904	PASS
Band66	3MHz	QPSK	132322	15RB#0	2.6868	2.894	PASS
Band66	3MHz	QPSK	132657	15RB#0	2.6844	2.897	PASS
Band66	3MHz	16QAM	131987	15RB#0	2.6902	2.908	PASS
Band66	3MHz	16QAM	132322	15RB#0	2.6848	2.919	PASS
Band66	3MHz	16QAM	132657	15RB#0	2.6813	2.901	PASS
Band66	5MHz	QPSK	131997	25RB#0	4.5392	5.223	PASS
Band66	5MHz	QPSK	132322	25RB#0	4.5149	5.182	PASS
Band66	5MHz	QPSK	132647	25RB#0	4.5243	5.218	PASS
Band66	5MHz	16QAM	131997	25RB#0	4.5228	5.198	PASS
Band66	5MHz	16QAM	132322	25RB#0	4.5196	5.204	PASS
Band66	5MHz	16QAM	132647	25RB#0	4.5158	5.907	PASS
Band66	10MHz	QPSK	132022	50RB#0	9.0238	10.06	PASS
Band66	10MHz	QPSK	132322	50RB#0	9.0097	10.04	PASS
Band66	10MHz	QPSK	132622	50RB#0	9.0092	10.03	PASS
Band66	10MHz	16QAM	132022	50RB#0	8.9998	9.987	PASS
Band66	10MHz	16QAM	132322	50RB#0	9.0193	10.02	PASS
Band66	10MHz	16QAM	132622	50RB#0	8.9951	10.06	PASS
Band66	15MHz	QPSK	132047	75RB#0	13.515	15.12	PASS
Band66	15MHz	QPSK	132322	75RB#0	13.504	15.01	PASS
Band66	15MHz	QPSK	132597	75RB#0	13.511	15.15	PASS
Band66	15MHz	16QAM	132047	75RB#0	13.494	15.03	PASS
Band66	15MHz	16QAM	132322	75RB#0	13.505	15.11	PASS
Band66	15MHz	16QAM	132597	75RB#0	13.516	14.96	PASS
Band66	20MHz	QPSK	132072	100RB#0	17.999	19.81	PASS
Band66	20MHz	QPSK	132322	100RB#0	17.990	19.97	PASS
Band66	20MHz	QPSK	132572	100RB#0	17.994	19.79	PASS
Band66	20MHz	16QAM	132072	100RB#0	17.954	19.79	PASS
Band66	20MHz	16QAM	132322	100RB#0	17.961	19.85	PASS
Band66	20MHz	16QAM	132572	100RB#0	17.965	22.89	PASS

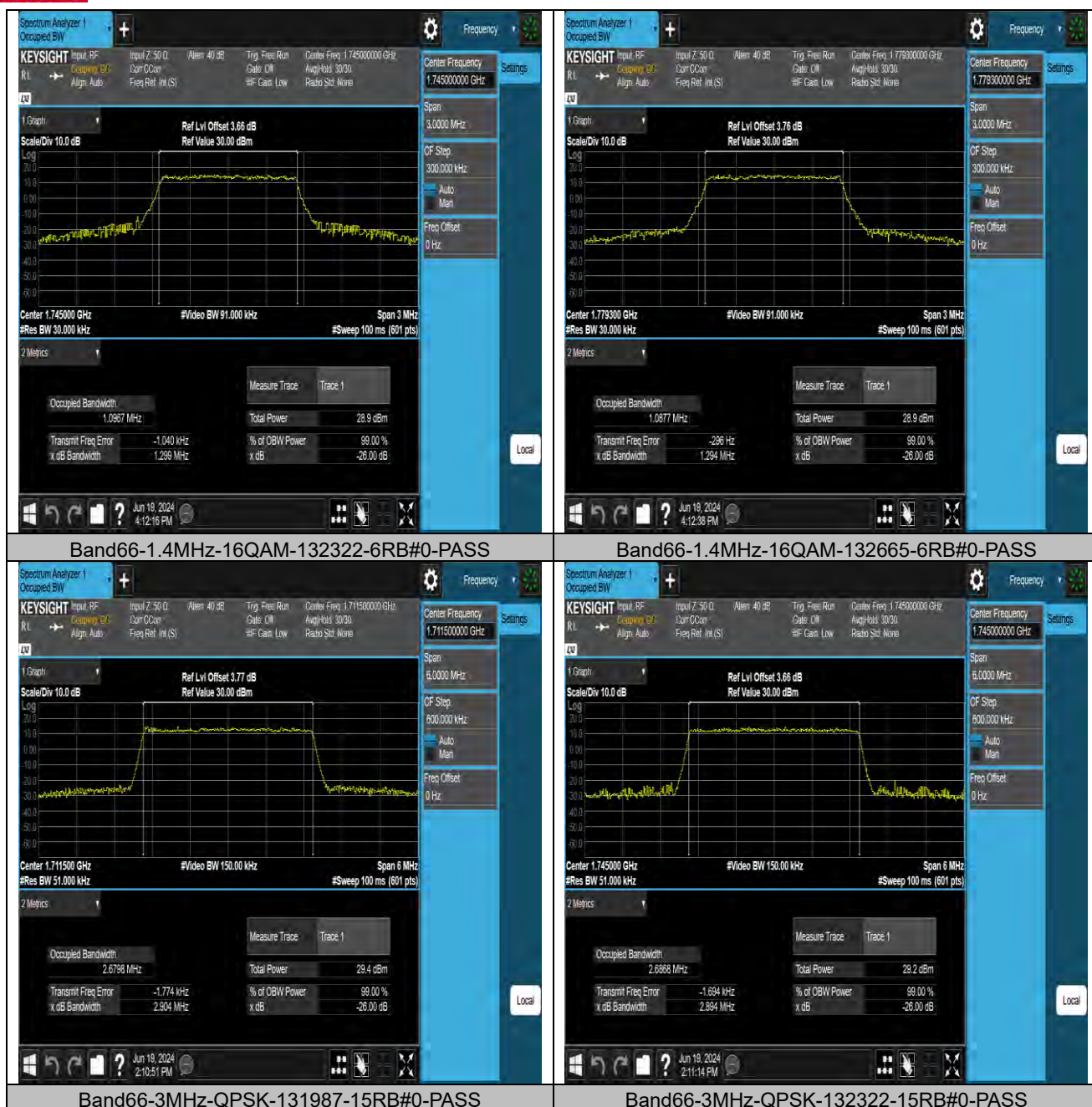
Test Graphs





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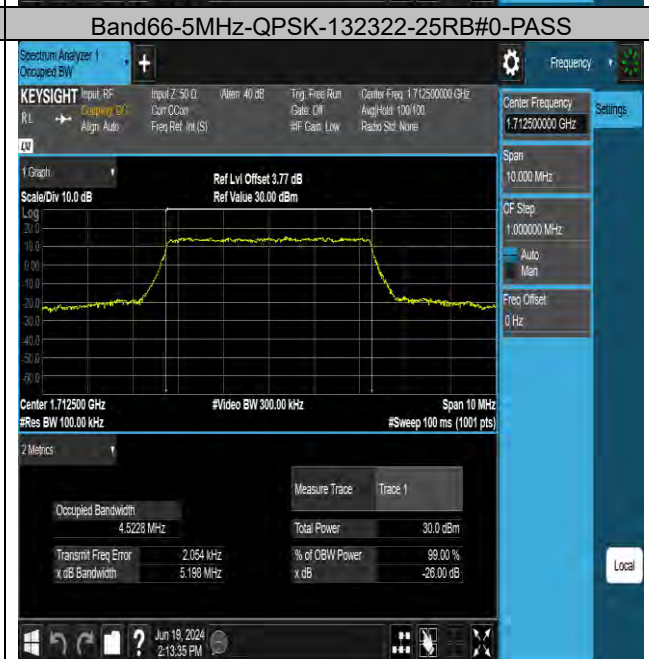
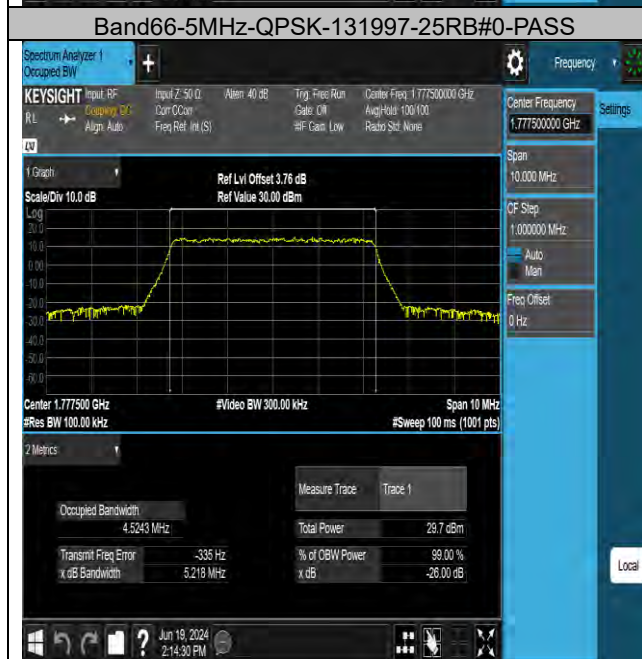
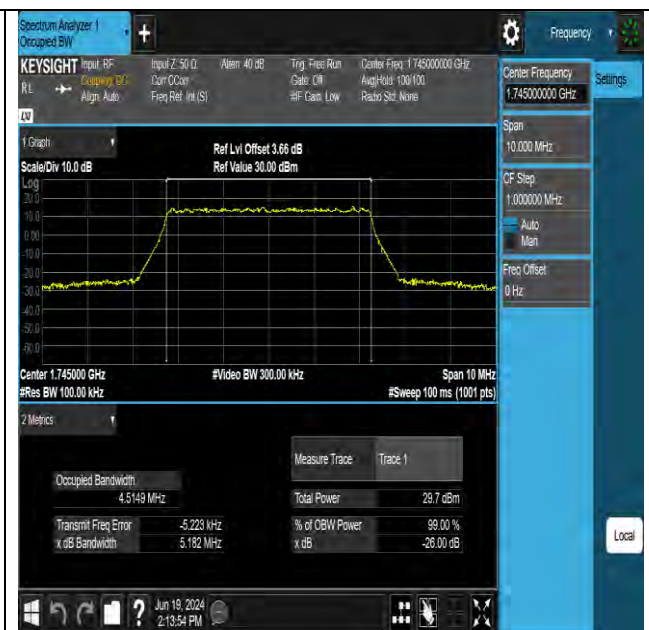




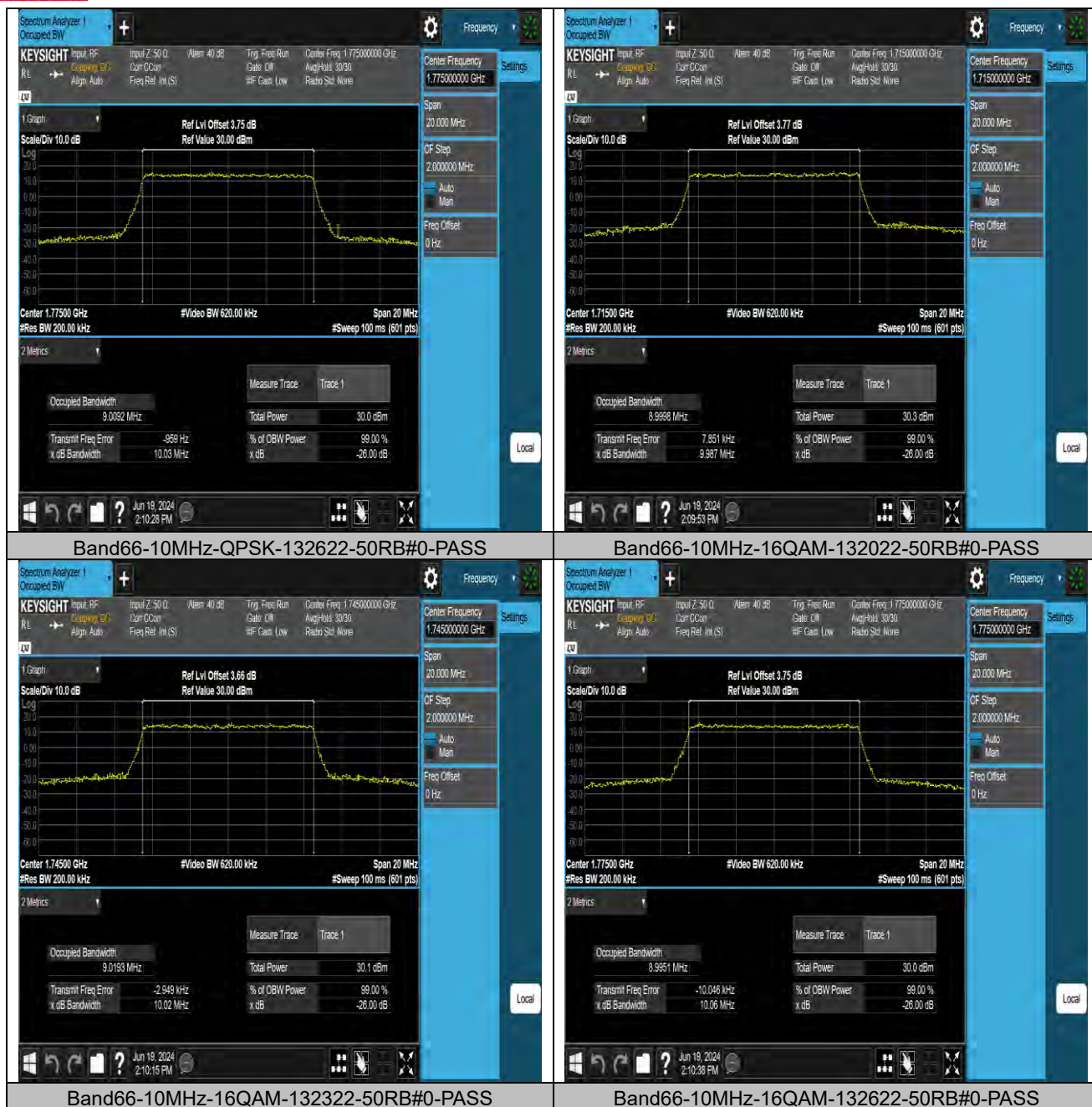
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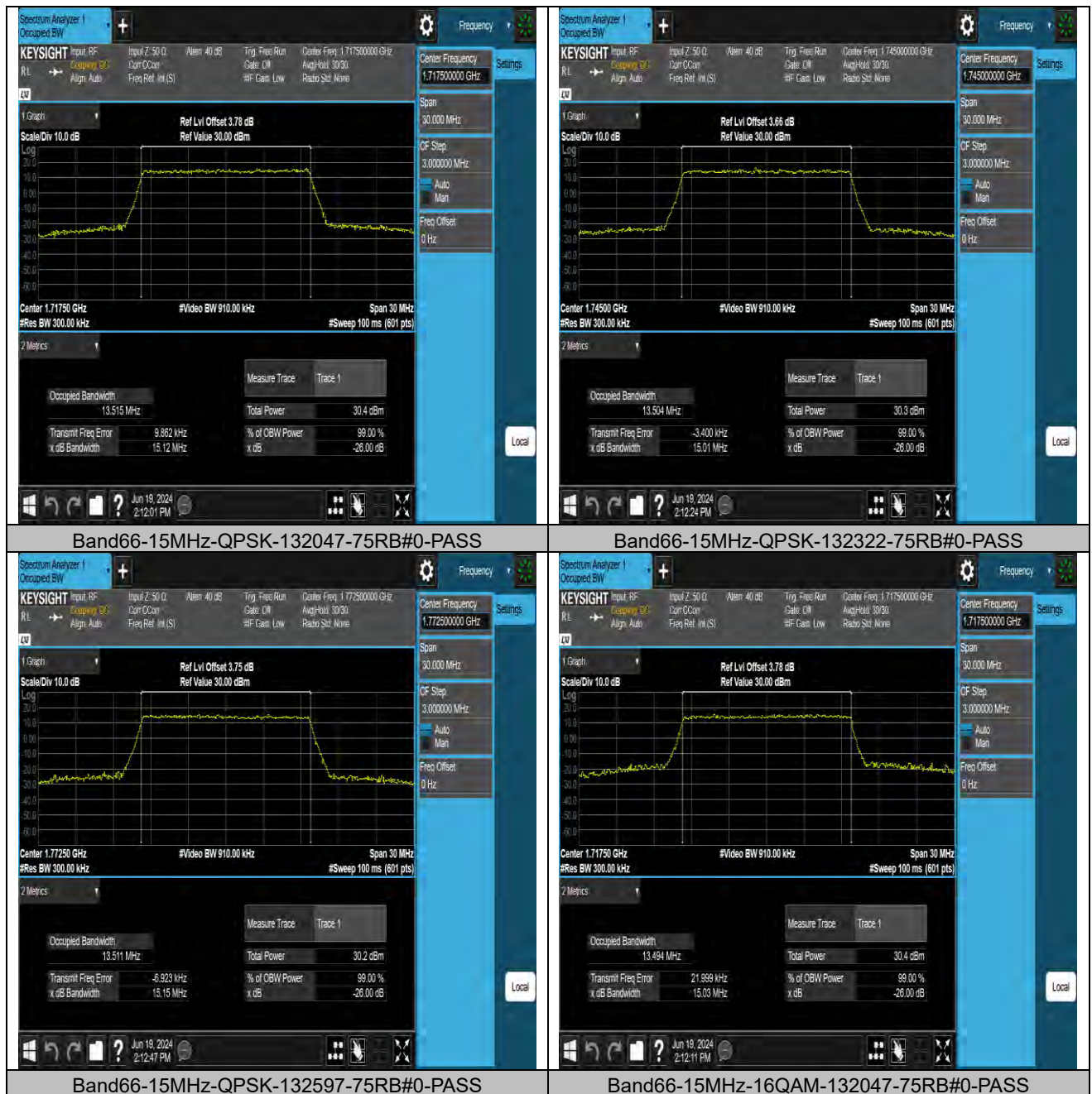






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Band66-15MHz-16QAM-132322-75RB#0-PASS



Band66-15MHz-16QAM-132597-75RB#0-PASS



Band66-20MHz-QPSK-132072-100RB#0-PASS

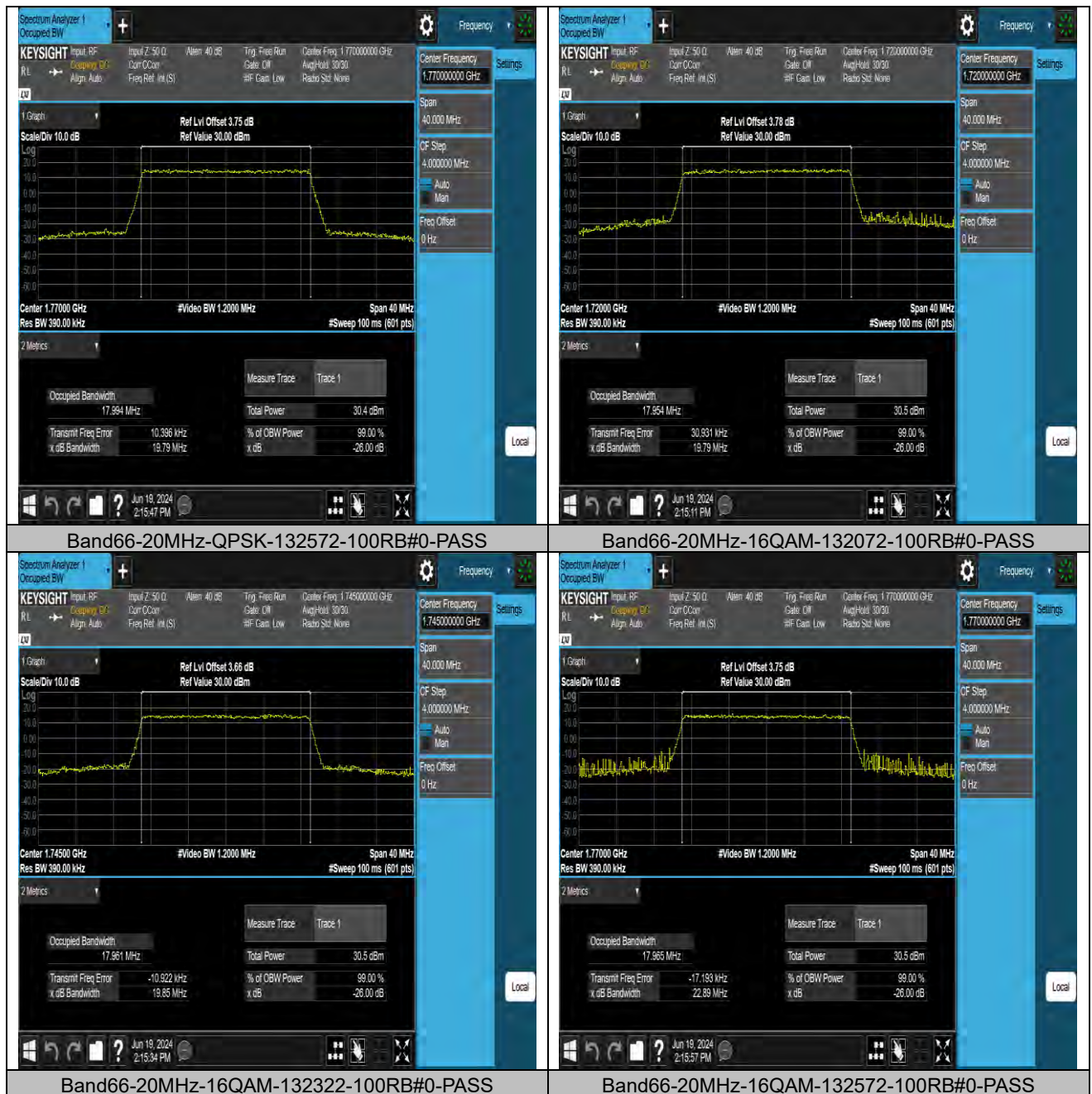


Band66-20MHz-QPSK-132322-100RB#0-PASS



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BAND EDGE

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band66	1.4MHz	QPSK	131979	1RB#0	-28.71	PASS
Band66	1.4MHz	QPSK	131979	6RB#0	-32.70	PASS
Band66	1.4MHz	QPSK	132665	1RB#5	-29.56	PASS
Band66	1.4MHz	QPSK	132665	6RB#0	-33.54	PASS
Band66	1.4MHz	16QAM	131979	1RB#0	-27.20	PASS
Band66	1.4MHz	16QAM	131979	6RB#0	-29.26	PASS
Band66	1.4MHz	16QAM	132665	1RB#5	-30.76	PASS
Band66	1.4MHz	16QAM	132665	6RB#0	-31.84	PASS
Band66	3MHz	QPSK	131987	1RB#0	-28.36	PASS
Band66	3MHz	QPSK	131987	15RB#0	-31.26	PASS
Band66	3MHz	QPSK	132657	1RB#14	-29.34	PASS
Band66	3MHz	QPSK	132657	15RB#0	-31.66	PASS
Band66	3MHz	16QAM	131987	1RB#0	-25.00	PASS
Band66	3MHz	16QAM	131987	15RB#0	-28.67	PASS
Band66	3MHz	16QAM	132657	1RB#14	-27.80	PASS
Band66	3MHz	16QAM	132657	15RB#0	-29.44	PASS
Band66	5MHz	QPSK	131997	1RB#0	-24.74	PASS
Band66	5MHz	QPSK	131997	25RB#0	-31.52	PASS
Band66	5MHz	QPSK	132647	1RB#24	-24.30	PASS
Band66	5MHz	QPSK	132647	25RB#0	-31.70	PASS
Band66	5MHz	16QAM	131997	1RB#0	-25.66	PASS
Band66	5MHz	16QAM	131997	25RB#0	-29.88	PASS
Band66	5MHz	16QAM	132647	1RB#24	-24.14	PASS
Band66	5MHz	16QAM	132647	25RB#0	-30.38	PASS
Band66	10MHz	QPSK	132022	1RB#0	-34.68	PASS
Band66	10MHz	QPSK	132022	50RB#0	-34.09	PASS
Band66	10MHz	QPSK	132622	1RB#49	-35.23	PASS
Band66	10MHz	QPSK	132622	50RB#0	-33.91	PASS
Band66	10MHz	16QAM	132022	1RB#0	-34.59	PASS
Band66	10MHz	16QAM	132022	50RB#0	-31.88	PASS
Band66	10MHz	16QAM	132622	1RB#49	-34.71	PASS
Band66	10MHz	16QAM	132622	50RB#0	-31.87	PASS
Band66	15MHz	QPSK	132047	1RB#0	-38.29	PASS
Band66	15MHz	QPSK	132047	75RB#0	-34.06	PASS
Band66	15MHz	QPSK	132597	1RB#74	-39.60	PASS
Band66	15MHz	QPSK	132597	75RB#0	-34.16	PASS
Band66	15MHz	16QAM	132047	1RB#0	-39.03	PASS
Band66	15MHz	16QAM	132047	75RB#0	-31.93	PASS
Band66	15MHz	16QAM	132597	1RB#74	-39.89	PASS
Band66	15MHz	16QAM	132597	75RB#0	-32.48	PASS
Band66	20MHz	QPSK	132072	1RB#0	-40.99	PASS
Band66	20MHz	QPSK	132072	100RB#0	-36.77	PASS
Band66	20MHz	QPSK	132572	1RB#99	-41.13	PASS
Band66	20MHz	QPSK	132572	100RB#0	-35.63	PASS

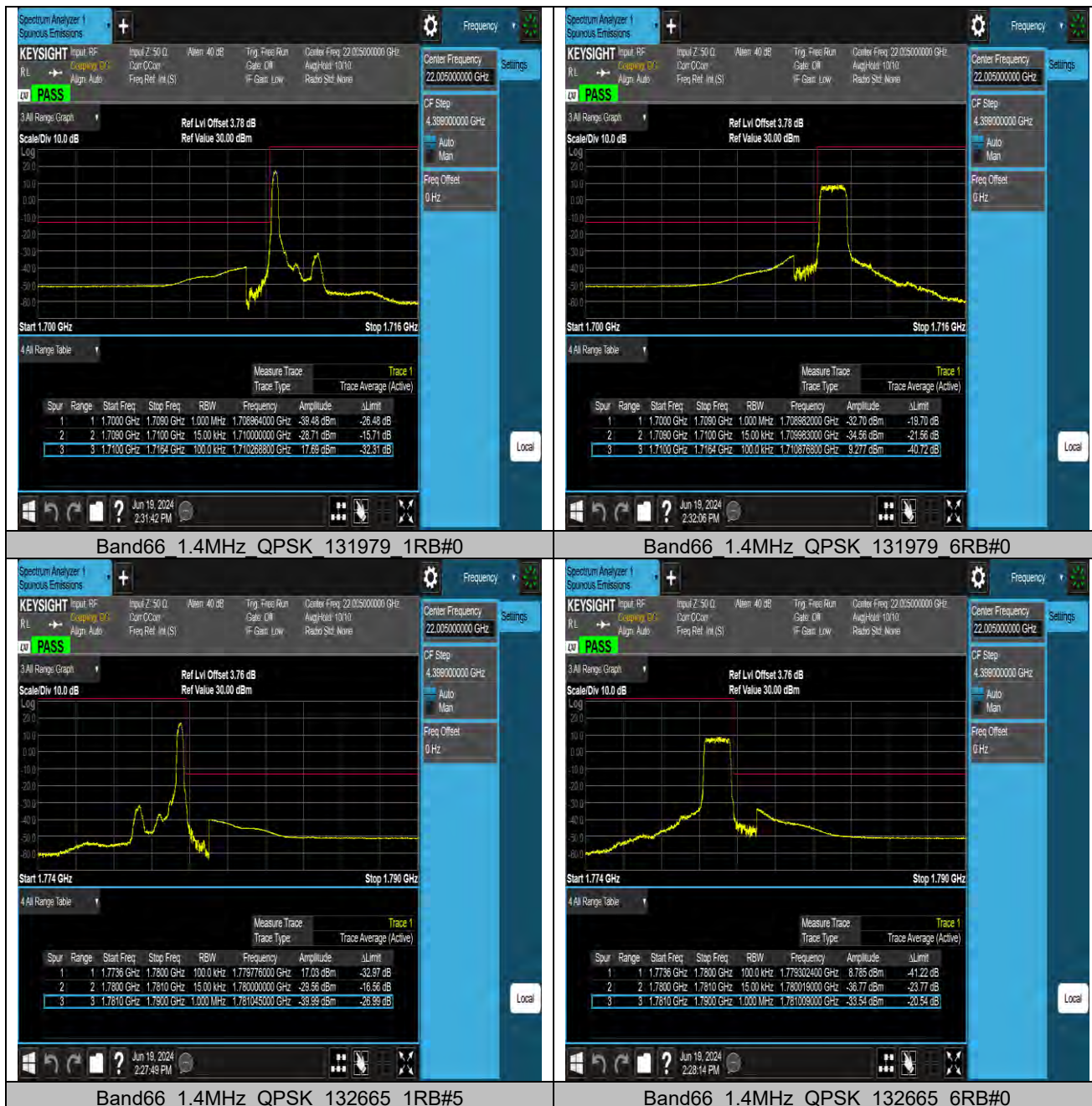


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Band66	20MHz	16QAM	132072	1RB#0	-39.89	PASS
Band66	20MHz	16QAM	132072	100RB#0	-34.49	PASS
Band66	20MHz	16QAM	132572	1RB#99	-41.31	PASS
Band66	20MHz	16QAM	132572	100RB#0	-34.35	PASS

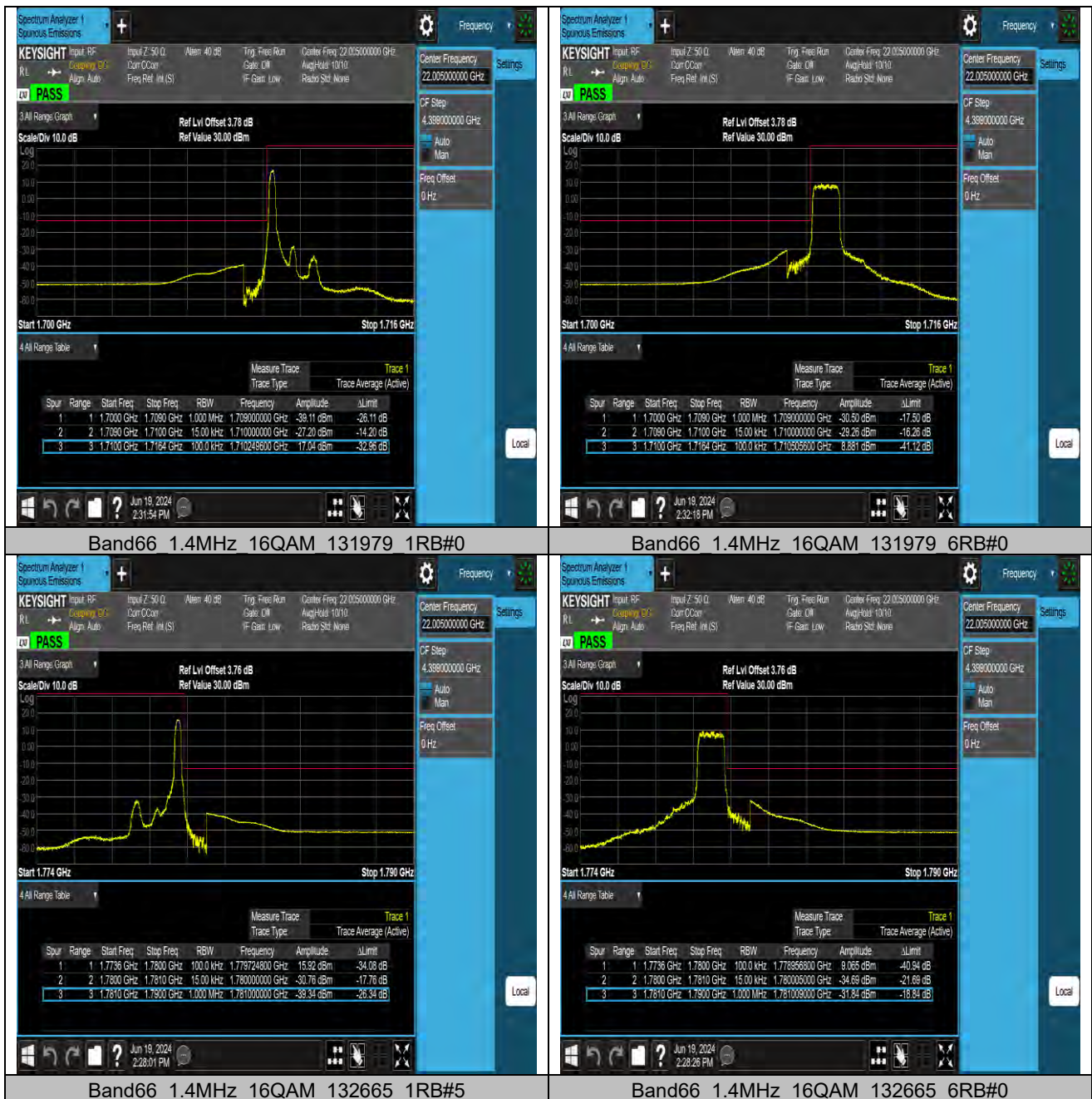
Test Graphs





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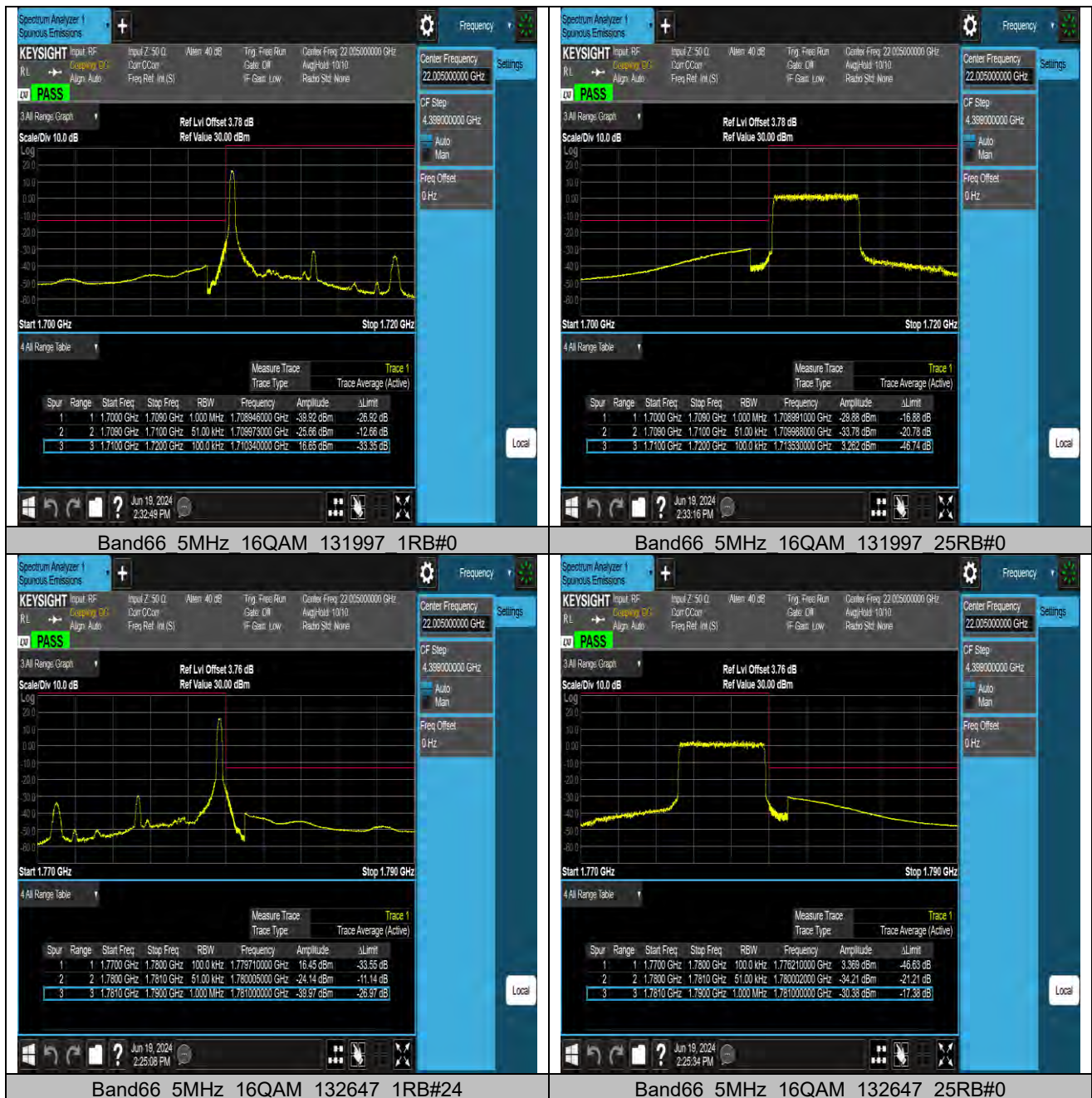
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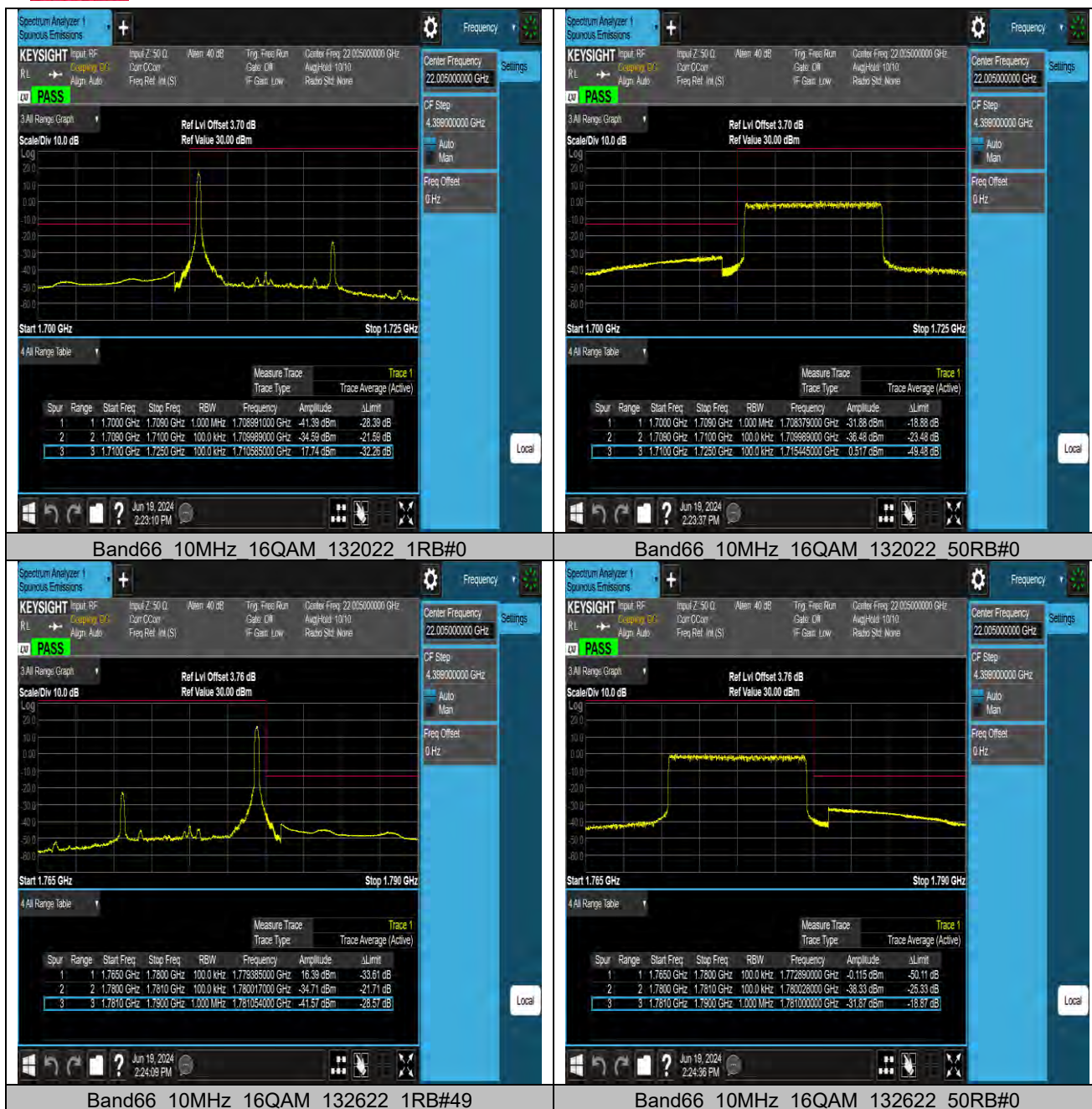
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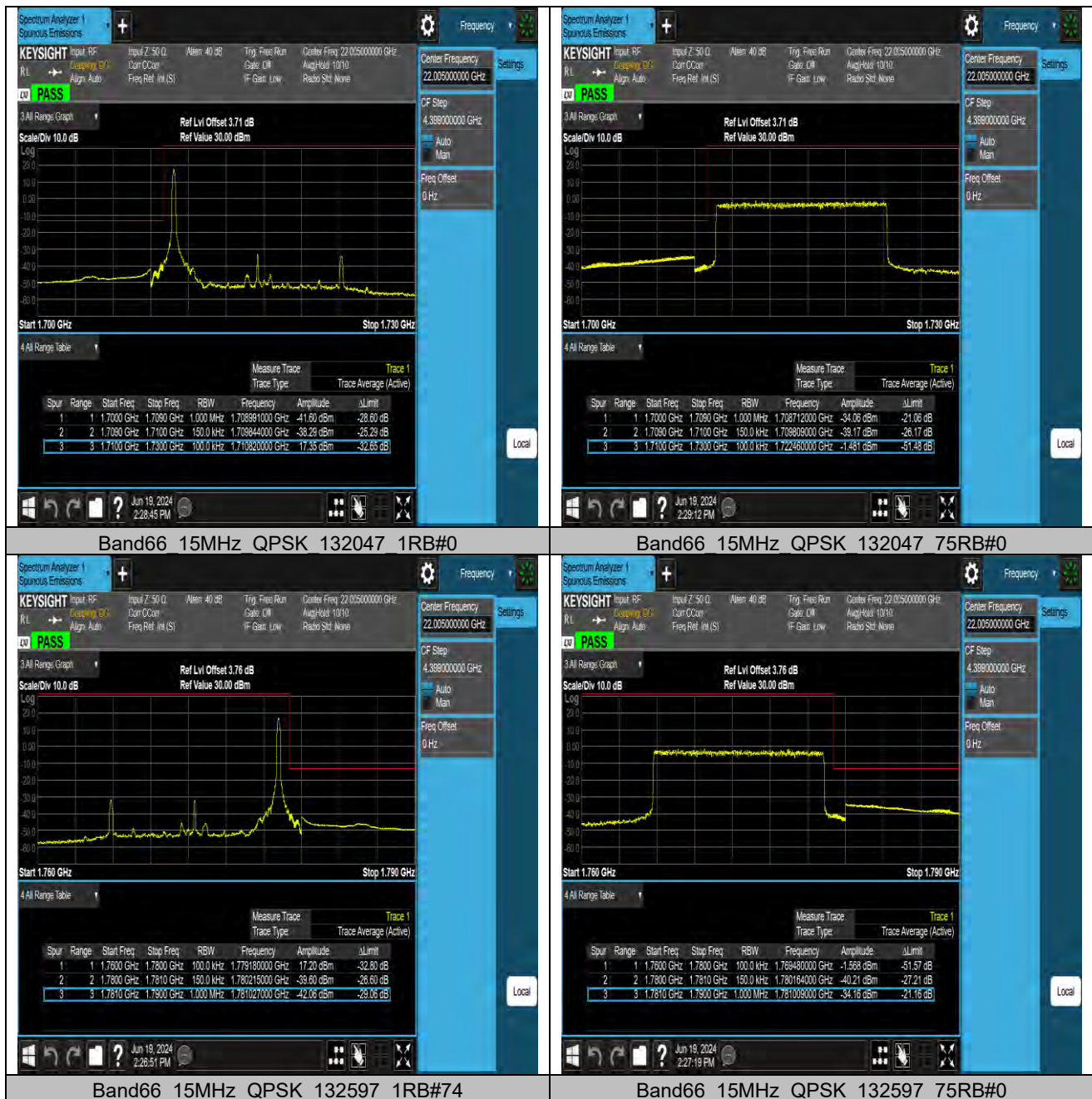
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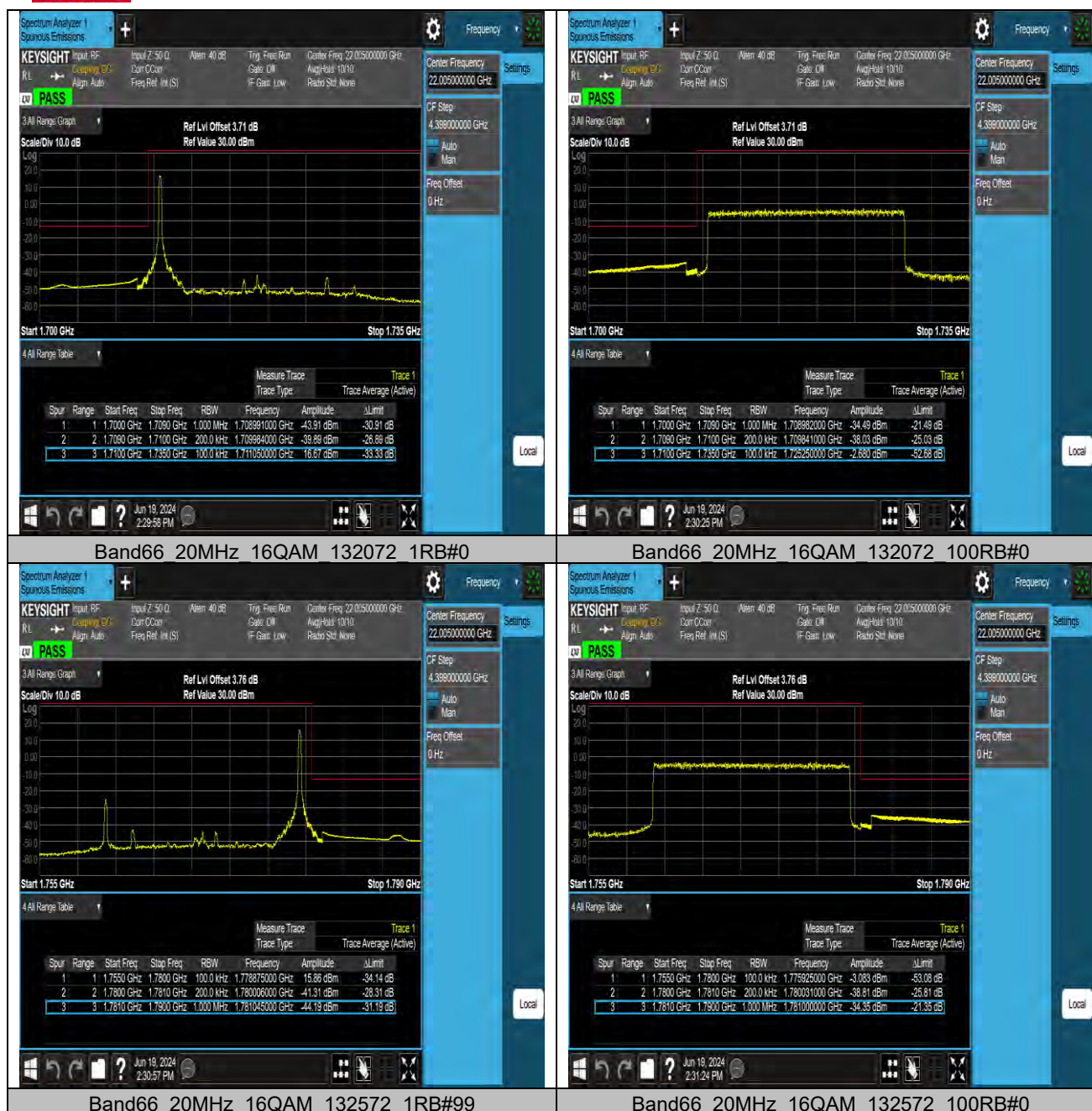






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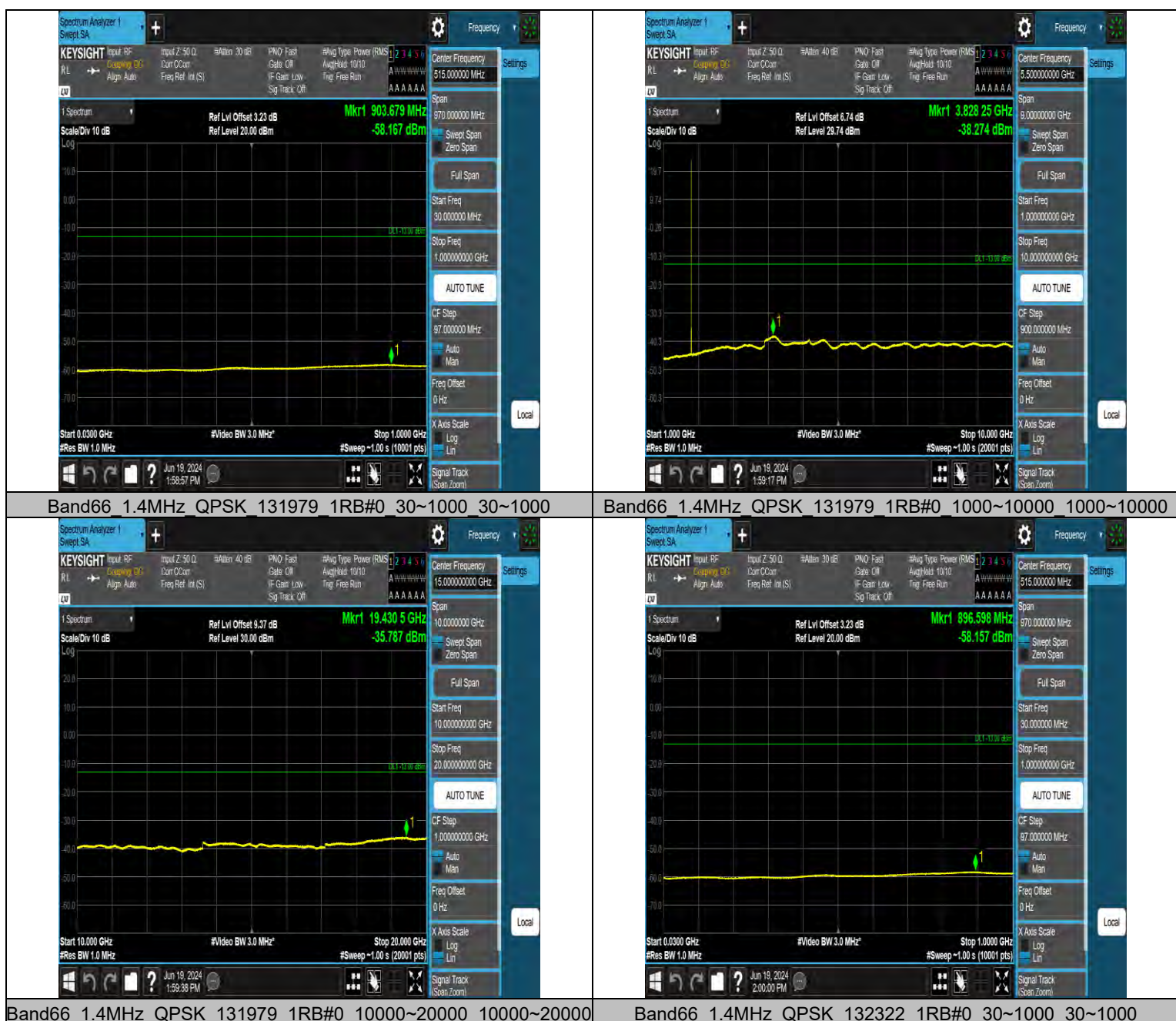
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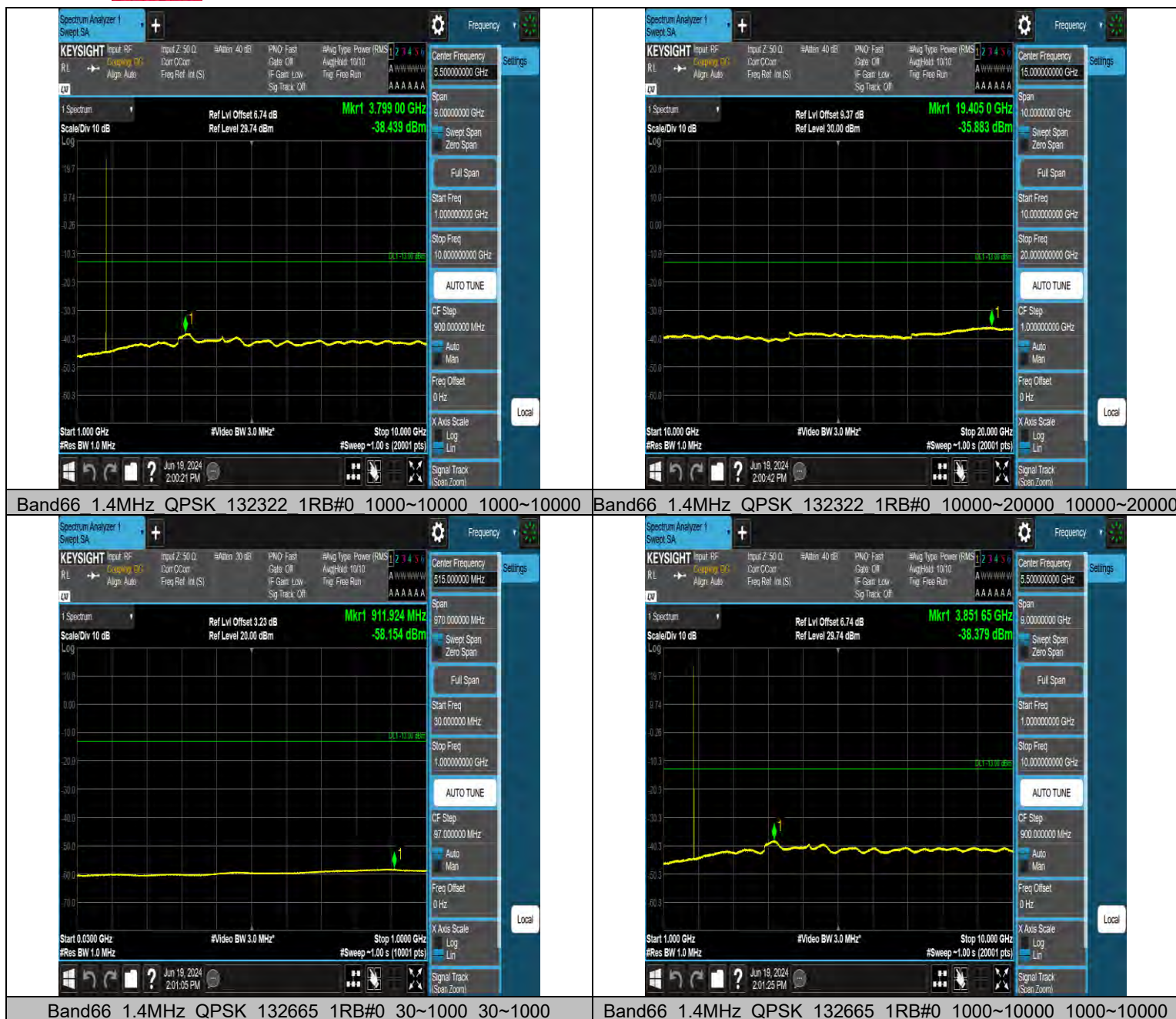
Test Result

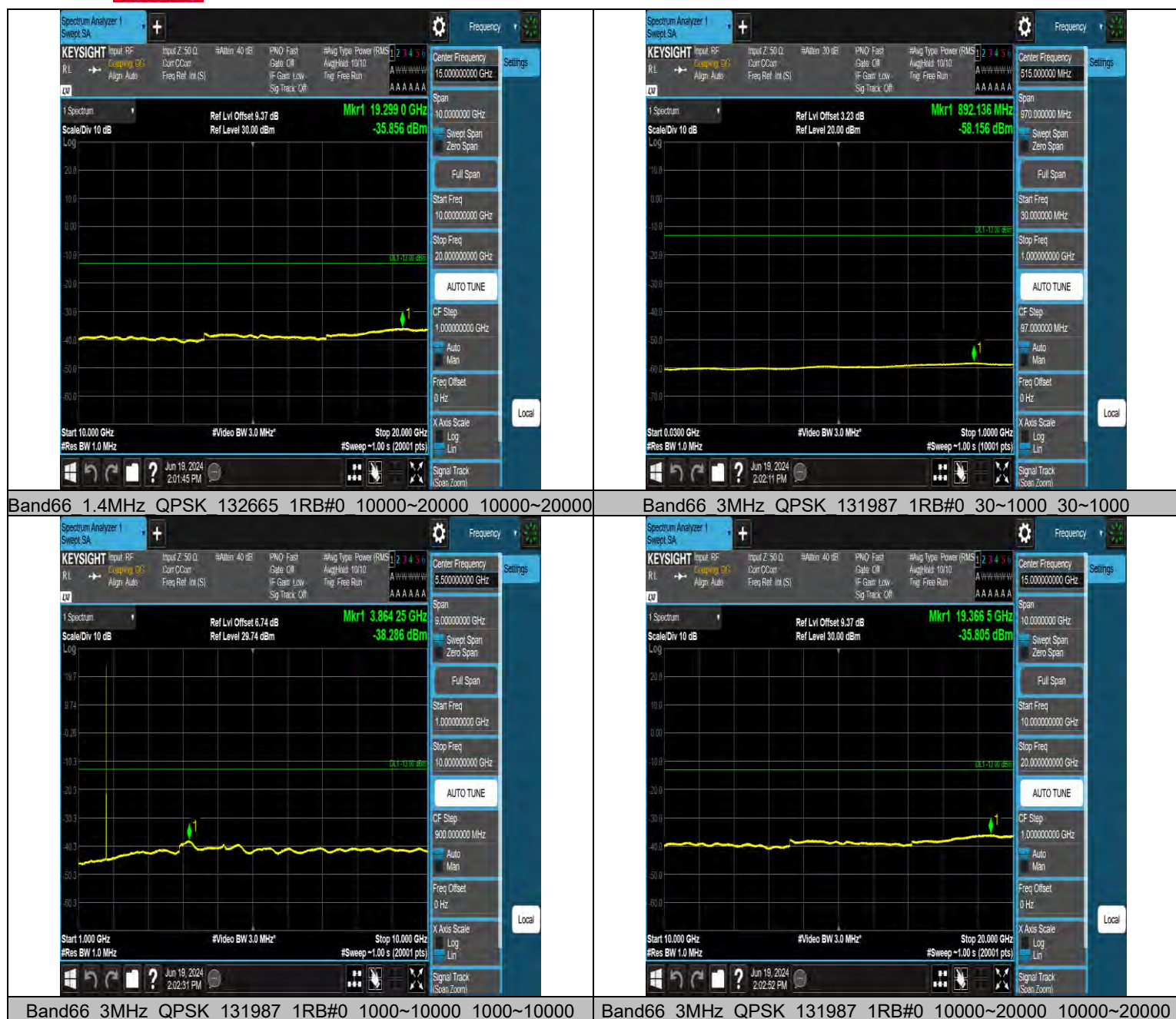
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band66	1.4MHz	QPSK	131979	1RB#0	30~1000	-58.17	PASS
Band66	1.4MHz	QPSK	131979	1RB#0	1000~10000	-38.27	PASS
Band66	1.4MHz	QPSK	131979	1RB#0	10000~20000	-35.79	PASS
Band66	1.4MHz	QPSK	132322	1RB#0	30~1000	-58.16	PASS
Band66	1.4MHz	QPSK	132322	1RB#0	1000~10000	-38.44	PASS
Band66	1.4MHz	QPSK	132322	1RB#0	10000~20000	-35.88	PASS
Band66	1.4MHz	QPSK	132665	1RB#0	30~1000	-58.15	PASS
Band66	1.4MHz	QPSK	132665	1RB#0	1000~10000	-38.38	PASS
Band66	1.4MHz	QPSK	132665	1RB#0	10000~20000	-35.86	PASS
Band66	3MHz	QPSK	131987	1RB#0	30~1000	-58.16	PASS
Band66	3MHz	QPSK	131987	1RB#0	1000~10000	-38.29	PASS
Band66	3MHz	QPSK	131987	1RB#0	10000~20000	-35.81	PASS
Band66	3MHz	QPSK	132322	1RB#0	30~1000	-58.15	PASS
Band66	3MHz	QPSK	132322	1RB#0	1000~10000	-38.37	PASS
Band66	3MHz	QPSK	132322	1RB#0	10000~20000	-35.79	PASS
Band66	3MHz	QPSK	132657	1RB#0	30~1000	-58.19	PASS
Band66	3MHz	QPSK	132657	1RB#0	1000~10000	-38.31	PASS
Band66	3MHz	QPSK	132657	1RB#0	10000~20000	-35.87	PASS
Band66	5MHz	QPSK	131997	1RB#0	30~1000	-58.19	PASS
Band66	5MHz	QPSK	131997	1RB#0	1000~10000	-36.00	PASS
Band66	5MHz	QPSK	131997	1RB#0	10000~20000	-35.83	PASS
Band66	5MHz	QPSK	132322	1RB#0	30~1000	-58.14	PASS
Band66	5MHz	QPSK	132322	1RB#0	1000~10000	-38.44	PASS
Band66	5MHz	QPSK	132322	1RB#0	10000~20000	-35.88	PASS
Band66	5MHz	QPSK	132647	1RB#0	30~1000	-58.15	PASS
Band66	5MHz	QPSK	132647	1RB#0	1000~10000	-38.32	PASS
Band66	5MHz	QPSK	132647	1RB#0	10000~20000	-35.88	PASS
Band66	10MHz	QPSK	132022	1RB#0	30~1000	-58.20	PASS
Band66	10MHz	QPSK	132022	1RB#0	1000~10000	-38.38	PASS
Band66	10MHz	QPSK	132022	1RB#0	10000~20000	-35.92	PASS
Band66	10MHz	QPSK	132322	1RB#0	30~1000	-58.17	PASS
Band66	10MHz	QPSK	132322	1RB#0	1000~10000	-38.42	PASS
Band66	10MHz	QPSK	132322	1RB#0	10000~20000	-35.89	PASS
Band66	10MHz	QPSK	132622	1RB#0	30~1000	-58.15	PASS
Band66	10MHz	QPSK	132622	1RB#0	1000~10000	-38.21	PASS
Band66	10MHz	QPSK	132622	1RB#0	10000~20000	-35.83	PASS
Band66	15MHz	QPSK	132047	1RB#0	30~1000	-58.17	PASS
Band66	15MHz	QPSK	132047	1RB#0	1000~10000	-38.31	PASS
Band66	15MHz	QPSK	132047	1RB#0	10000~20000	-35.82	PASS
Band66	15MHz	QPSK	132322	1RB#0	30~1000	-58.11	PASS
Band66	15MHz	QPSK	132322	1RB#0	1000~10000	-38.24	PASS
Band66	15MHz	QPSK	132322	1RB#0	10000~20000	-35.78	PASS
Band66	15MHz	QPSK	132597	1RB#0	30~1000	-58.17	PASS
Band66	15MHz	QPSK	132597	1RB#0	1000~10000	-38.39	PASS

Band66	15MHz	QPSK	132597	1RB#0	10000~20000	-35.82	PASS
Band66	20MHz	QPSK	132072	1RB#0	30~1000	-58.06	PASS
Band66	20MHz	QPSK	132072	1RB#0	1000~10000	-38.37	PASS
Band66	20MHz	QPSK	132072	1RB#0	10000~20000	-35.65	PASS
Band66	20MHz	QPSK	132322	1RB#0	30~1000	-58.10	PASS
Band66	20MHz	QPSK	132322	1RB#0	1000~10000	-38.34	PASS
Band66	20MHz	QPSK	132322	1RB#0	10000~20000	-35.90	PASS
Band66	20MHz	QPSK	132572	1RB#0	30~1000	-58.11	PASS
Band66	20MHz	QPSK	132572	1RB#0	1000~10000	-38.22	PASS
Band66	20MHz	QPSK	132572	1RB#0	10000~20000	-35.85	PASS

Test Graphs

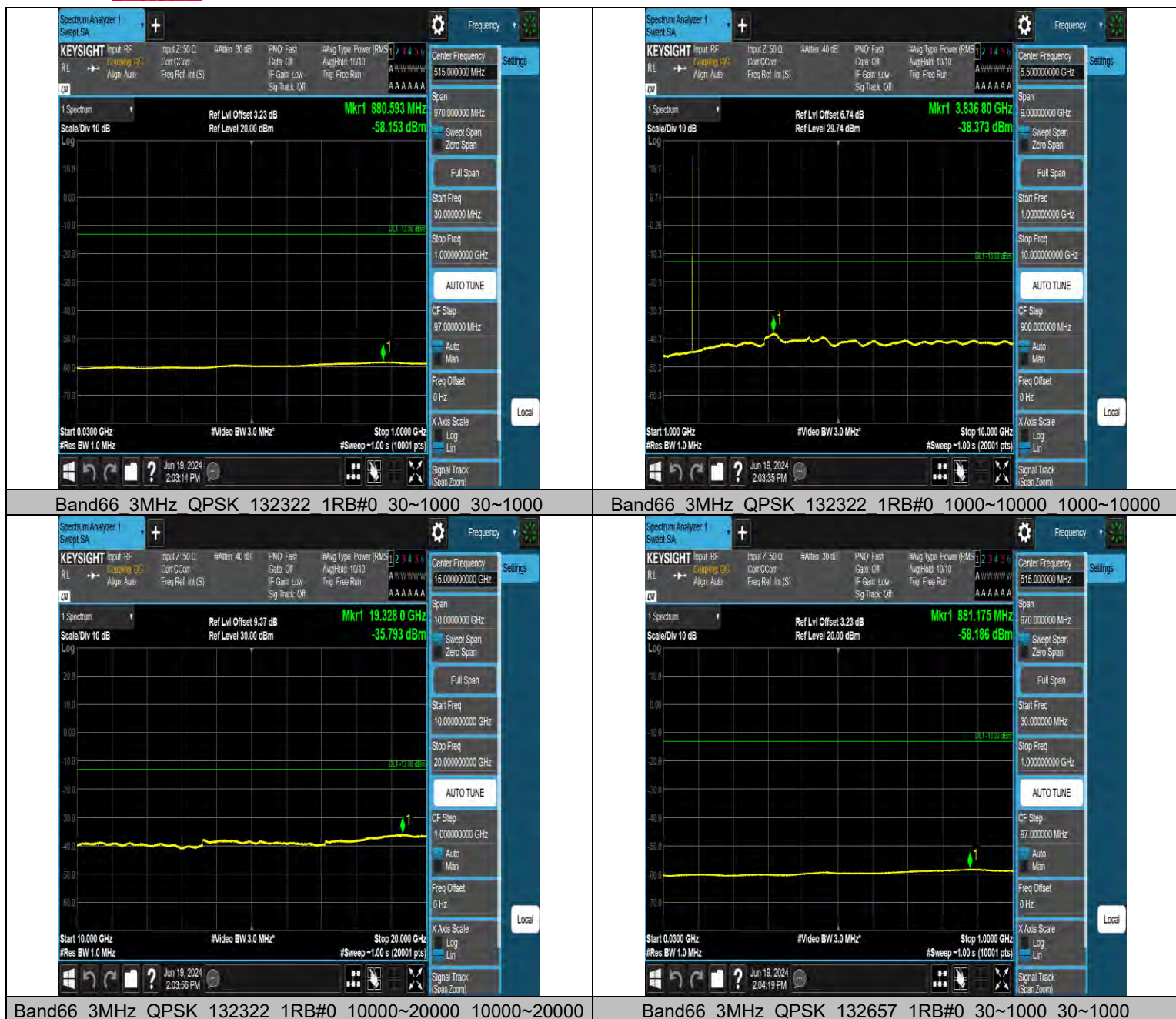


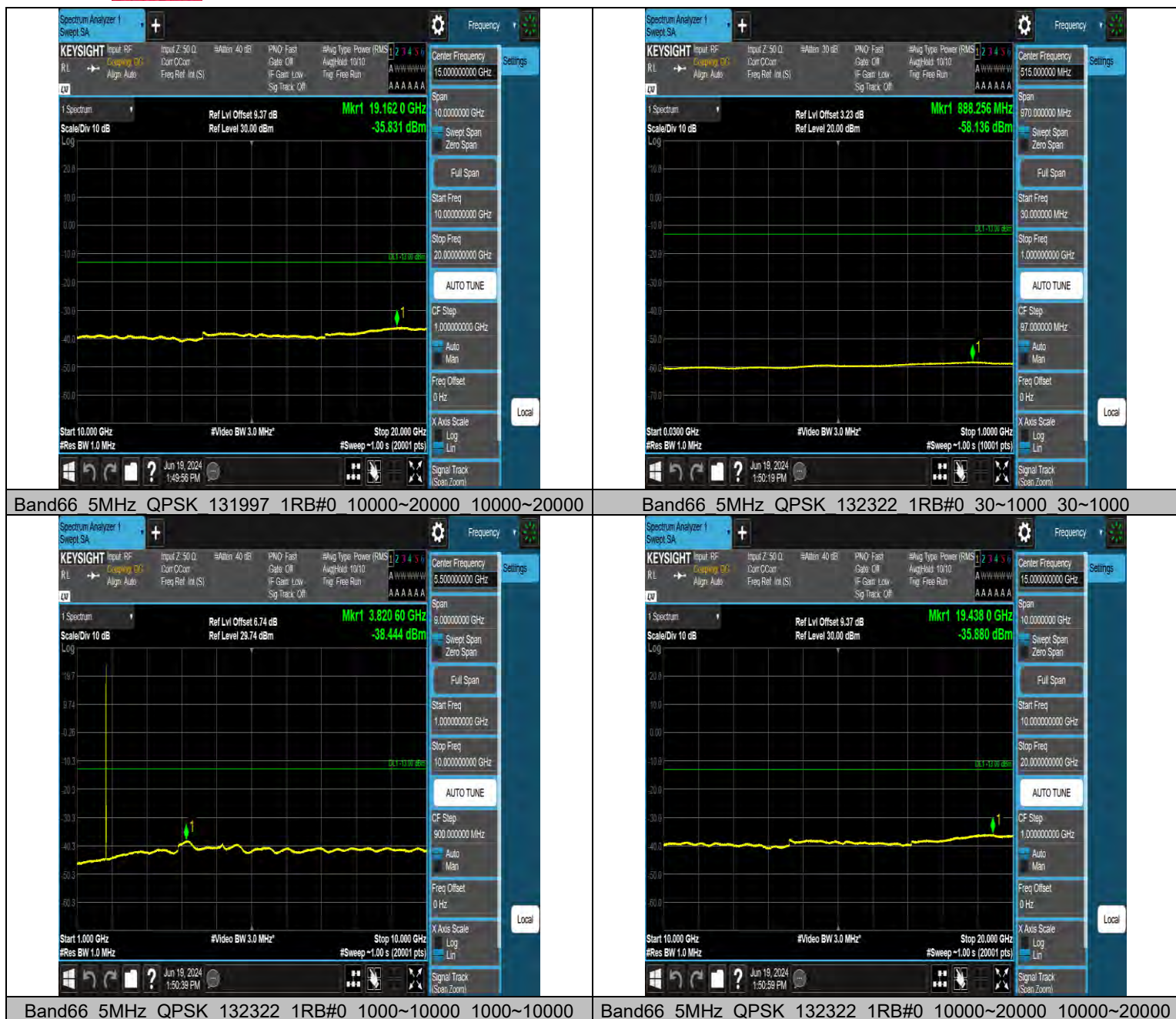


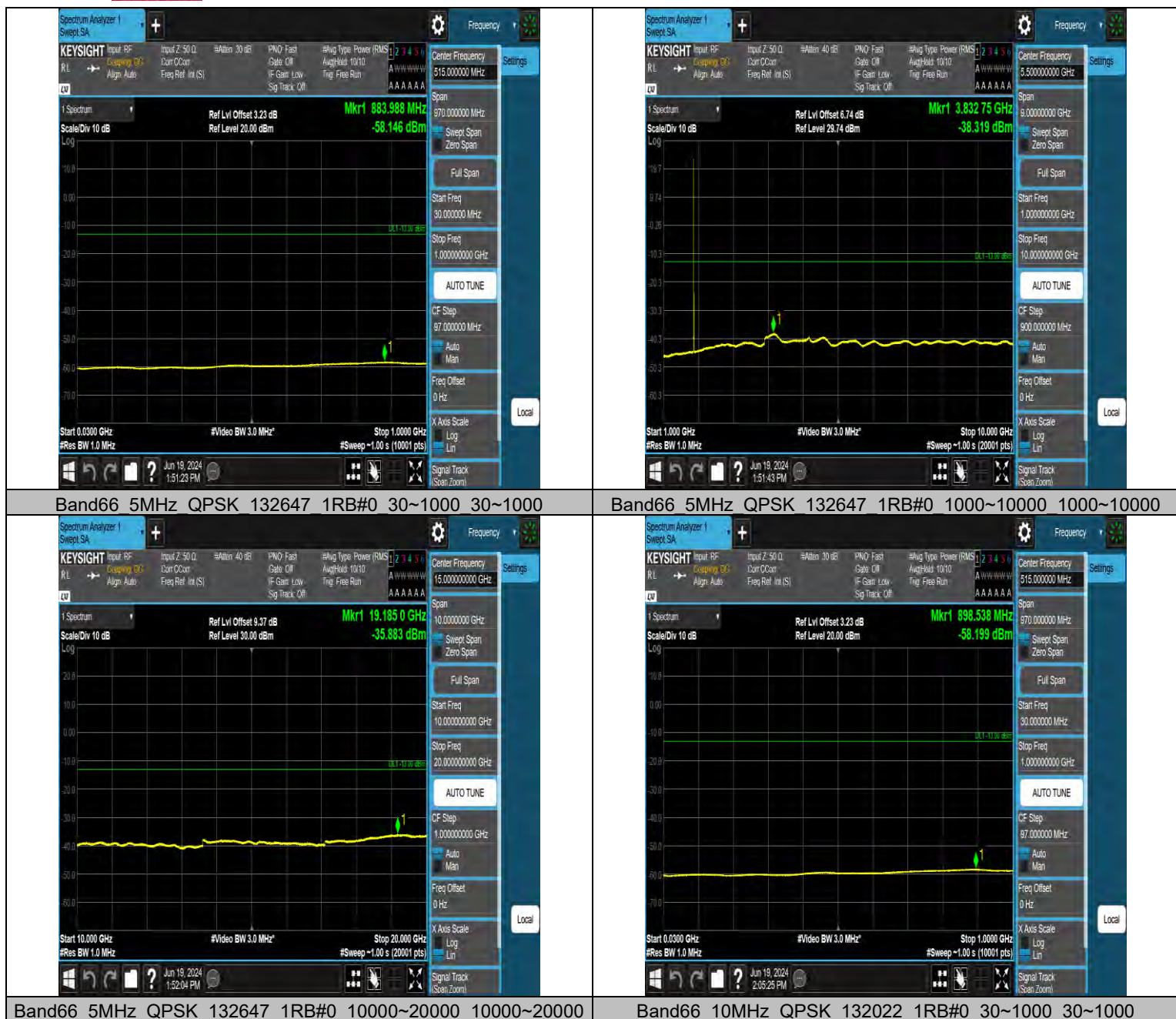




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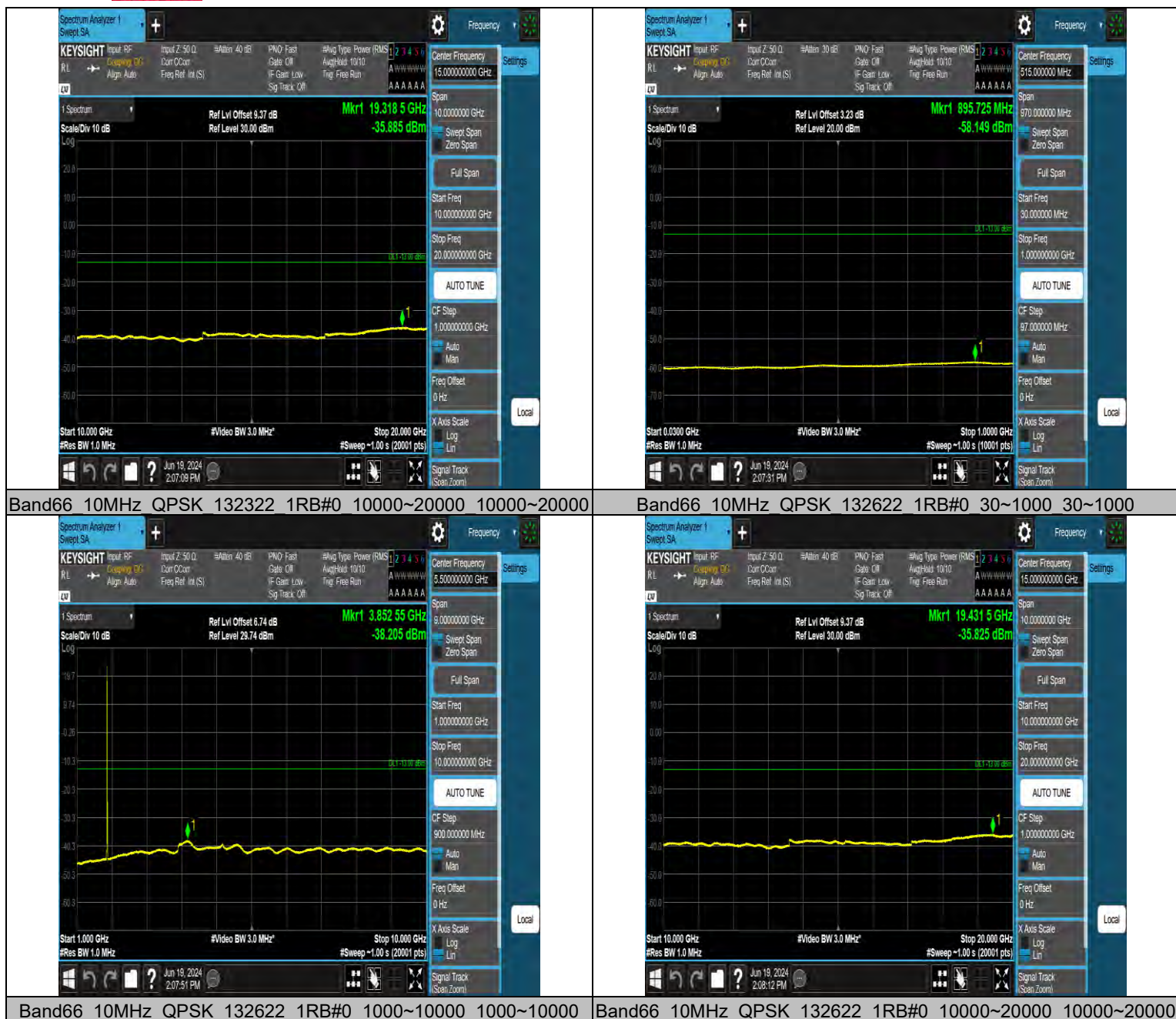


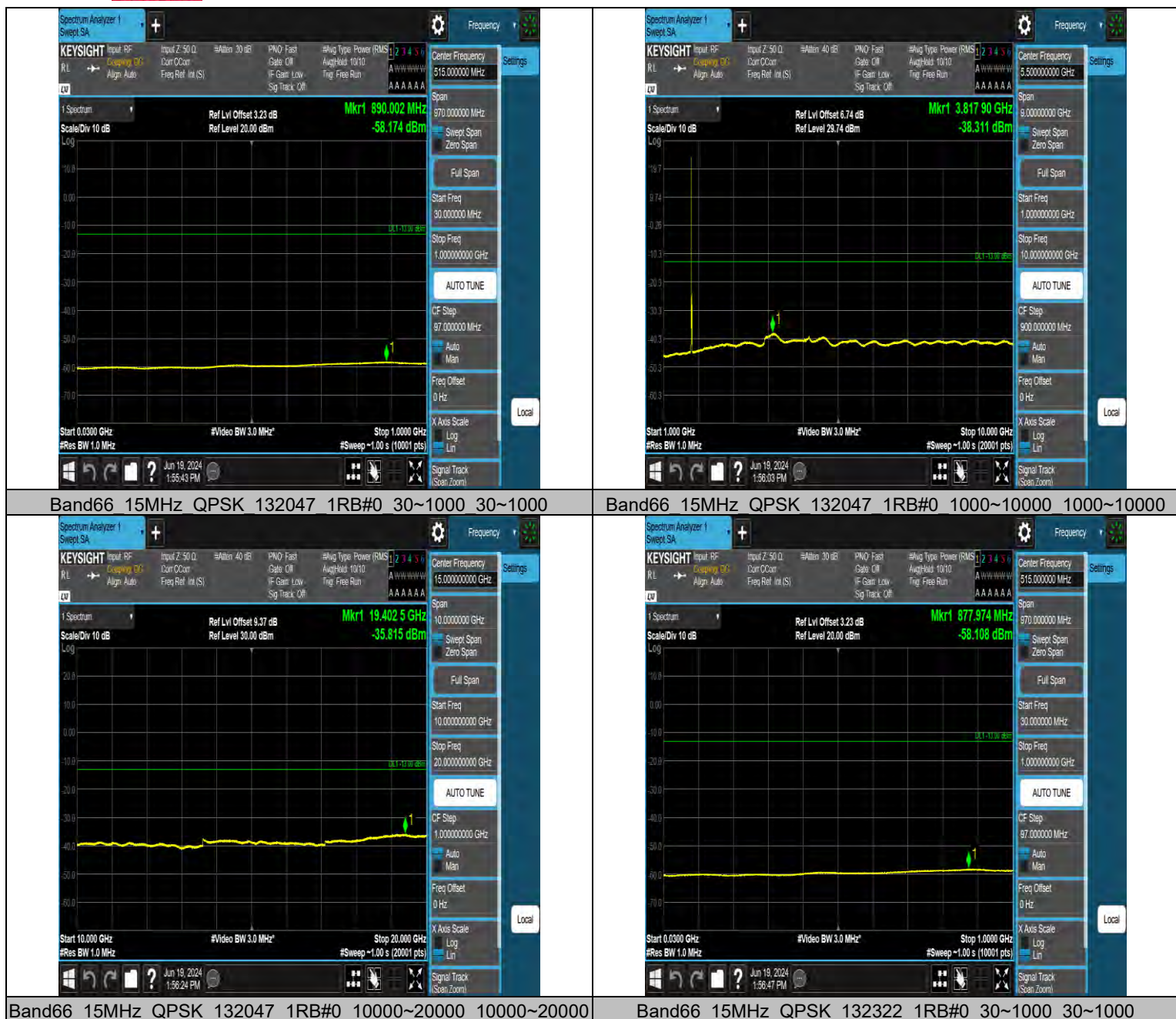


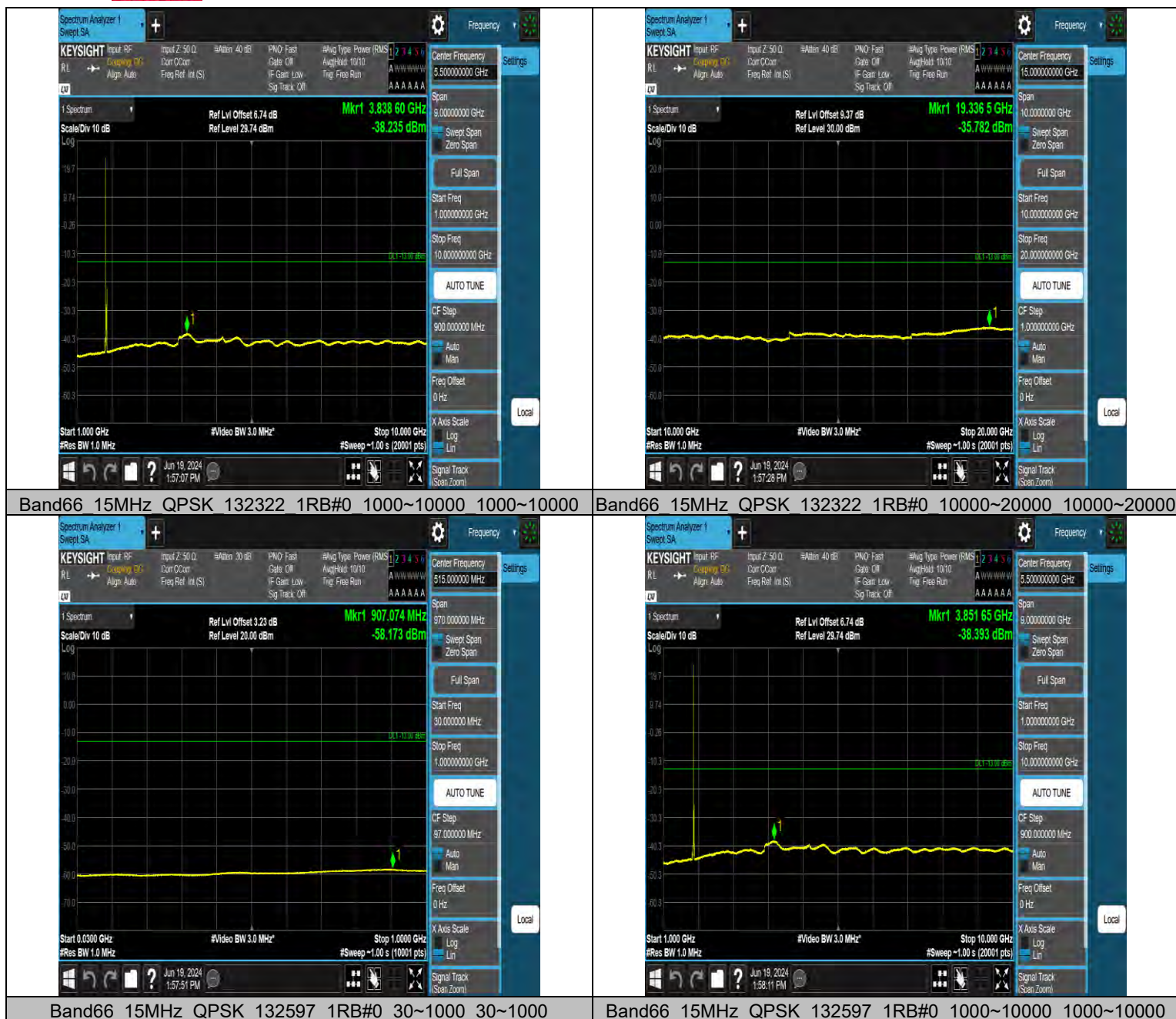
Band66	10MHz	QPSK	132022	1RB#0	10000~20000	10000~20000
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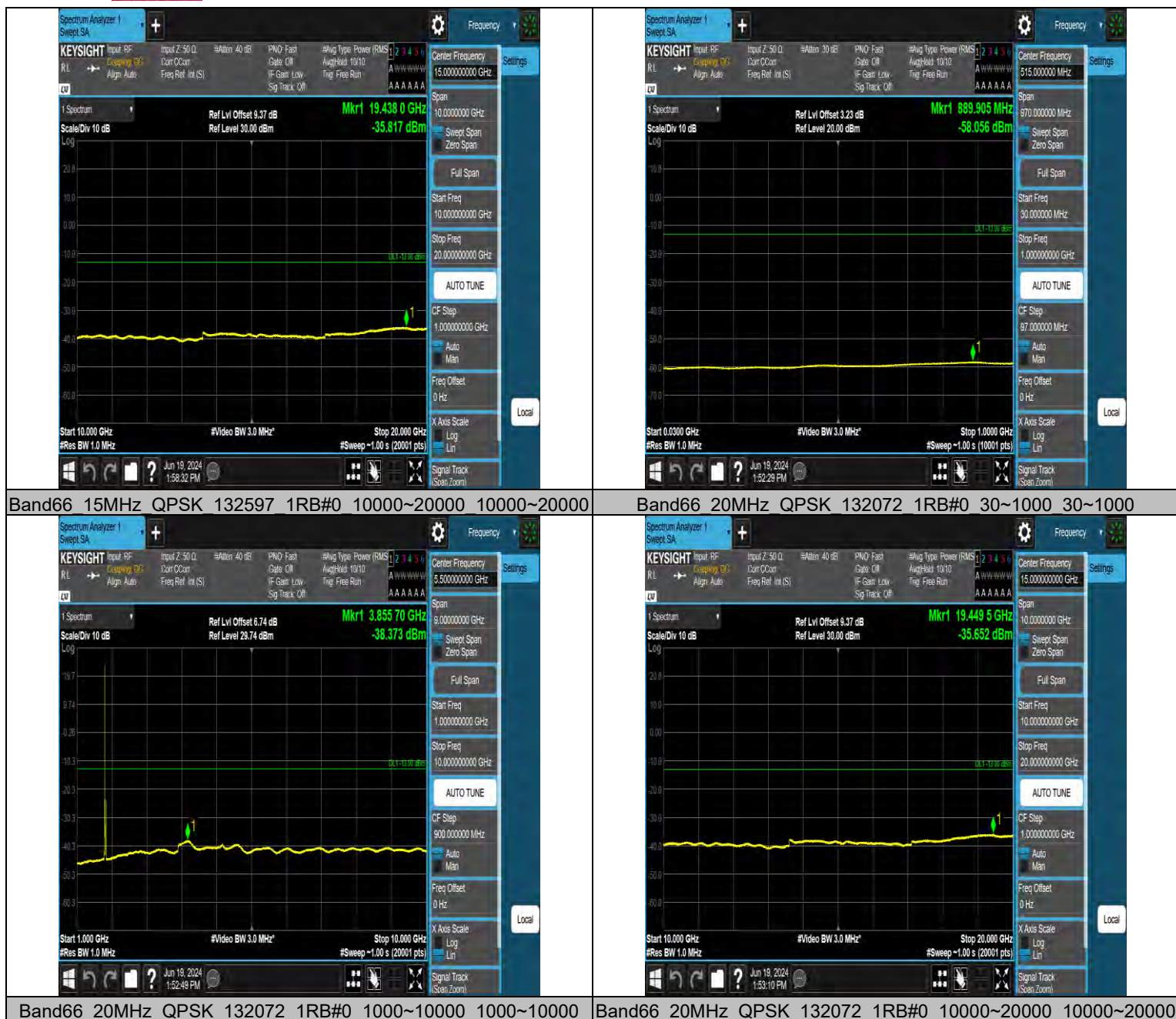


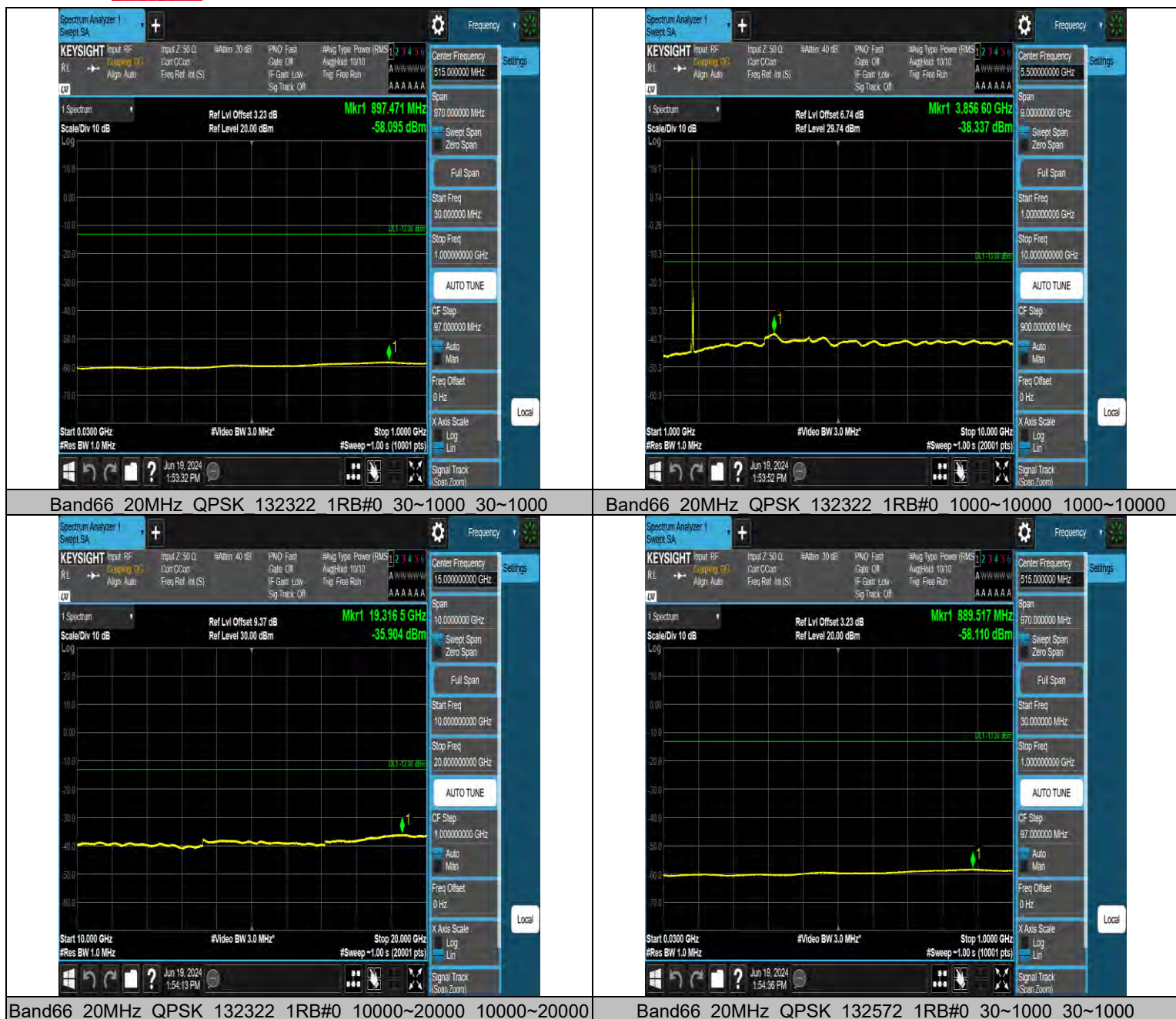
Band66 10MHz QPSK 132322 1RB#0 1000~10000 1000~10000













BUREAU
VERITAS

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FREQUENCY STABILITY

Test Result

Voltage												
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
Band6 6	10MHz	QPSK	13202 2	50RB #0	VN	NT	-1051.96	-0.613389	1710.5309	---	1710-1780	PASS
Band6 6	10MHz	QPSK	13202 2	50RB #0	VL	NT	1168.12	0.681122	1710.53112	---	1710-1780	PASS
Band6 6	10MHz	QPSK	13202 2	50RB #0	VH	NT	-1209.99	-0.705535	1710.53449	---	1710-1780	PASS
Band6 6	10MHz	QPSK	13262 2	50RB #0	VN	NT	982.65	0.553607	---	1779.46946	1710-1780	PASS
Band6 6	10MHz	QPSK	13262 2	50RB #0	VL	NT	-1099.39	-0.619375	---	1779.46908	1710-1780	PASS
Band6 6	10MHz	QPSK	13262 2	50RB #0	VH	NT	-1152.01	-0.649021	---	1779.47039	1710-1780	PASS

Temperature												
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
Band6 6	10MHz	QPSK	13202 2	50RB #0	NV	-30	-1083.94	-0.632033	1710.52134	---	1710-1780	PASS
Band6 6	10MHz	QPSK	13202 2	50RB #0	NV	-20	1197.12	0.698031	1710.52507	---	1710-1780	PASS
Band6 6	10MHz	QPSK	13202 2	50RB #0	NV	-10	-1348.12	-0.786074	1710.52806	---	1710-1780	PASS
Band6 6	10MHz	QPSK	13202 2	50RB #0	NV	0	-1336.18	-0.779112	1710.53171	---	1710-1780	PASS
Band6 6	10MHz	QPSK	13202 2	50RB #0	NV	10	1223.51	0.713420	1710.53189	---	1710-1780	PASS
Band6 6	10MHz	QPSK	13202 2	50RB #0	NV	20	-1366.19	-0.796613	1710.5313	---	1710-1780	PASS
Band6 6	10MHz	QPSK	13202 2	50RB #0	NV	30	-1452.52	-0.846952	1710.52834	---	1710-1780	PASS
Band6 6	10MHz	QPSK	13202 2	50RB #0	NV	40	-1511.63	-0.881419	1710.52065	---	1710-1780	PASS
Band6 6	10MHz	QPSK	13202 2	50RB #0	NV	50	-1609.04	-0.938218	1710.524	---	1710-1780	PASS
Band6 6	10MHz	QPSK	13262 2	50RB #0	NV	-30	923.79	0.520447	---	1779.47324	1710-1780	PASS
Band6 6	10MHz	QPSK	13262 2	50RB #0	NV	-20	-1049.43	-0.591230	---	1779.47084	1710-1780	PASS
Band6 6	10MHz	QPSK	13262 2	50RB #0	NV	-10	-1021.92	-0.575730	---	1779.46723	1710-1780	PASS
Band6 6	10MHz	QPSK	13262 2	50RB #0	NV	0	784.5	0.442	---	1779.47039	1710-1780	PASS