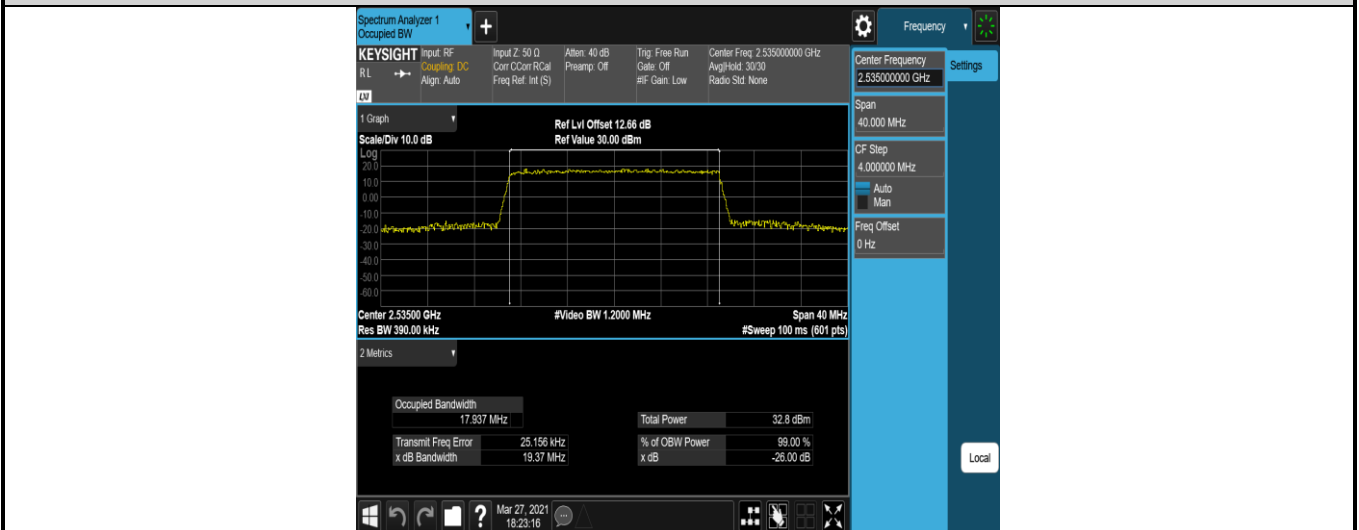


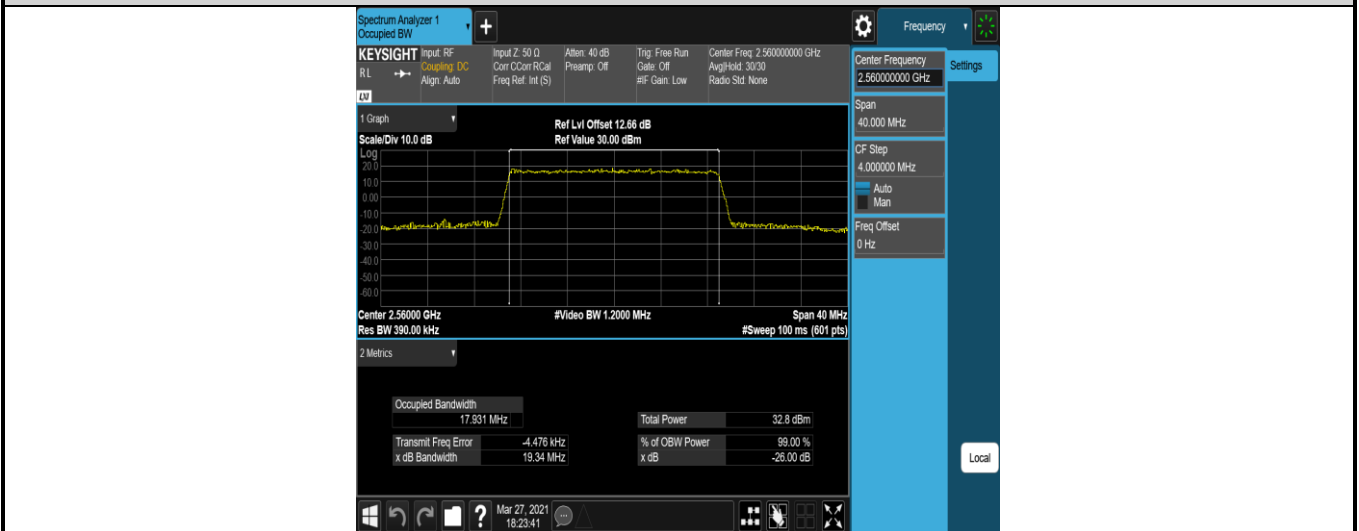
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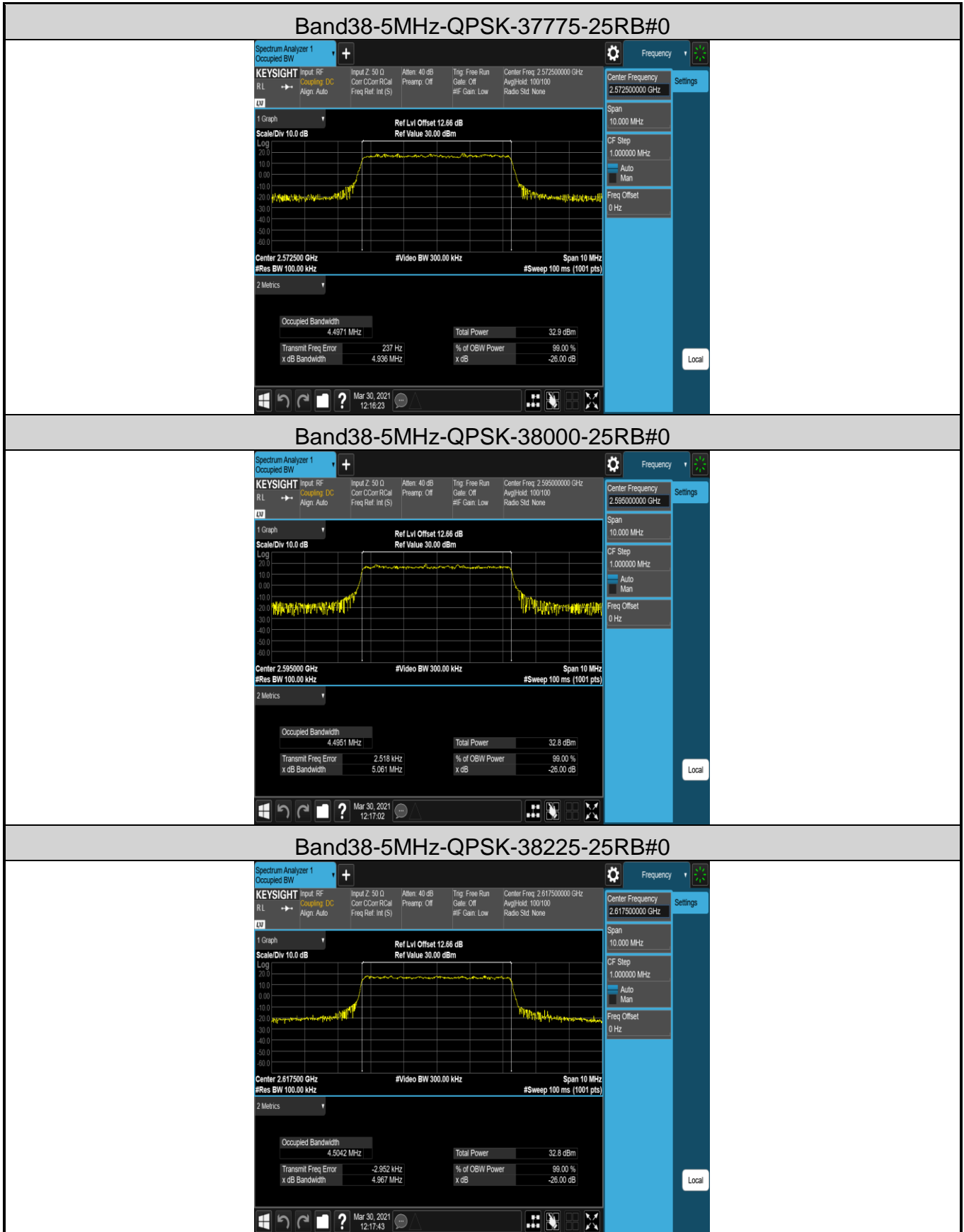


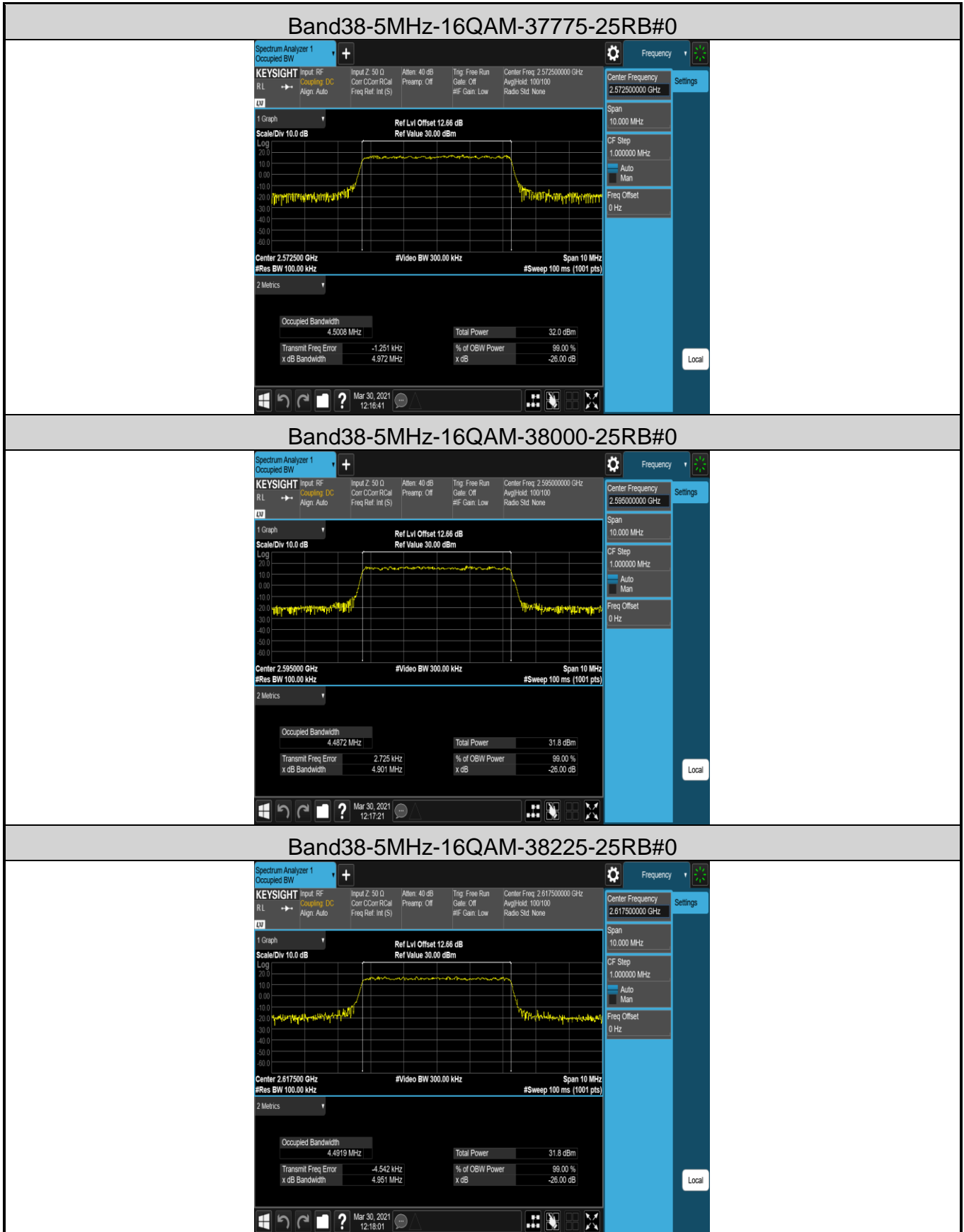
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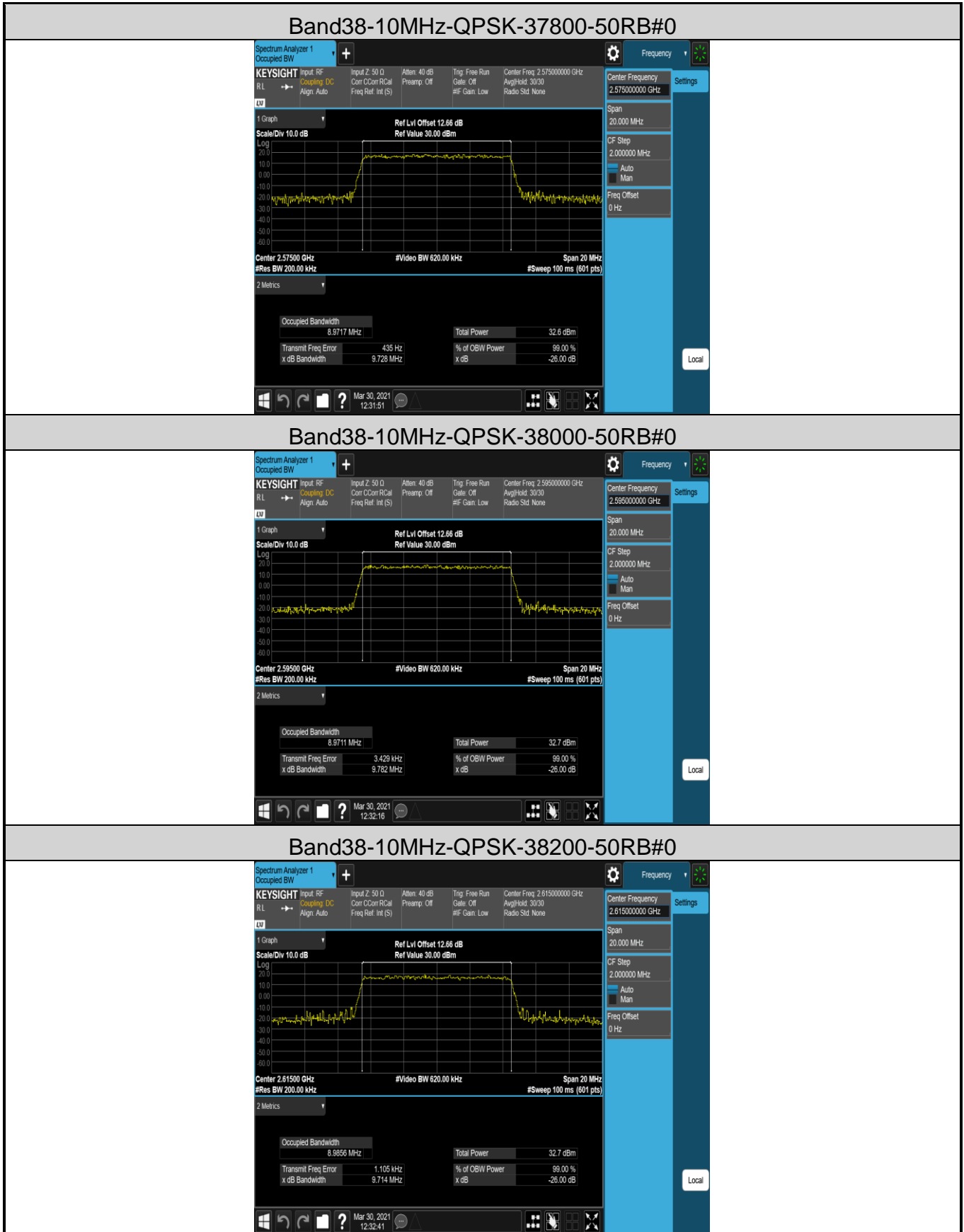


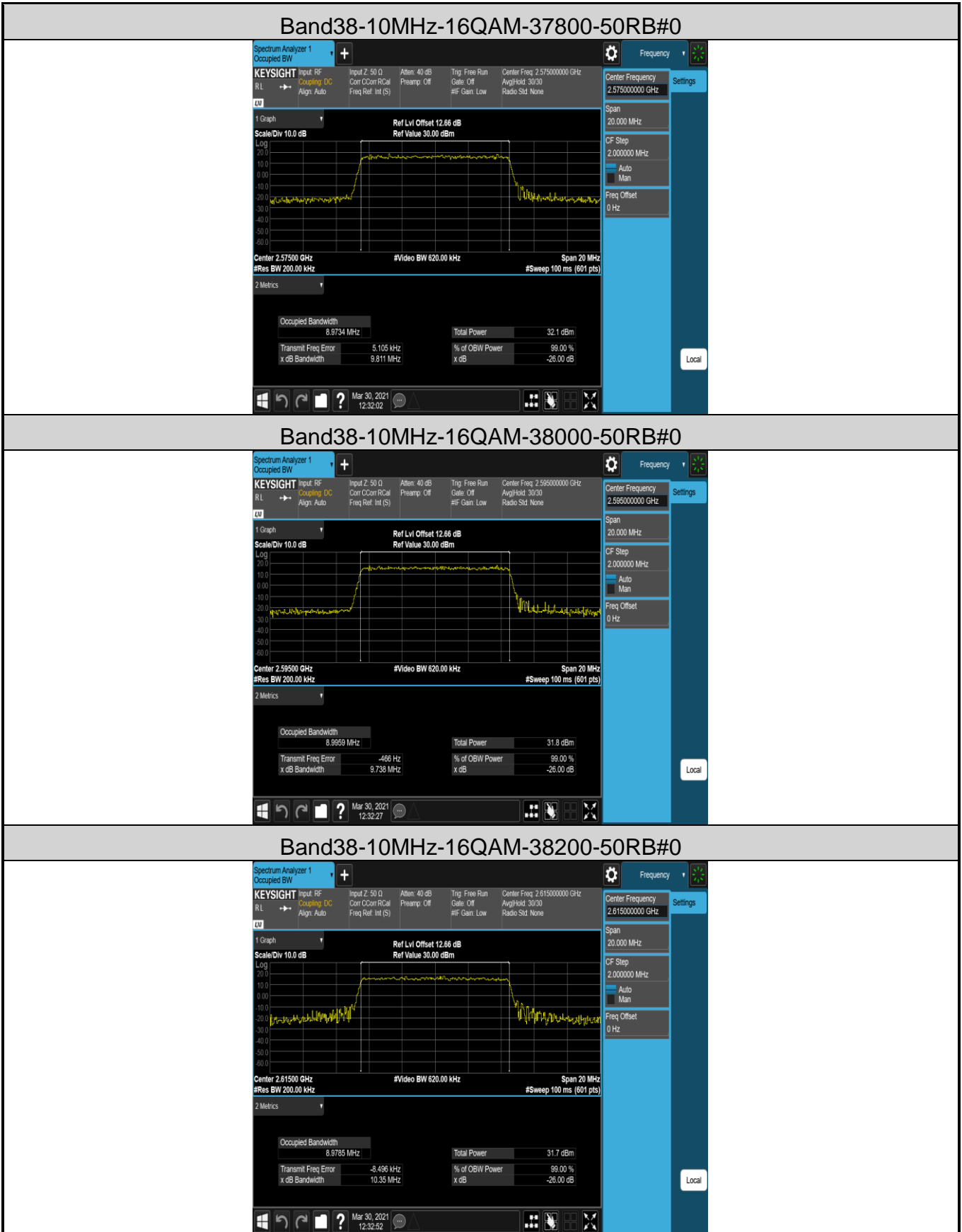
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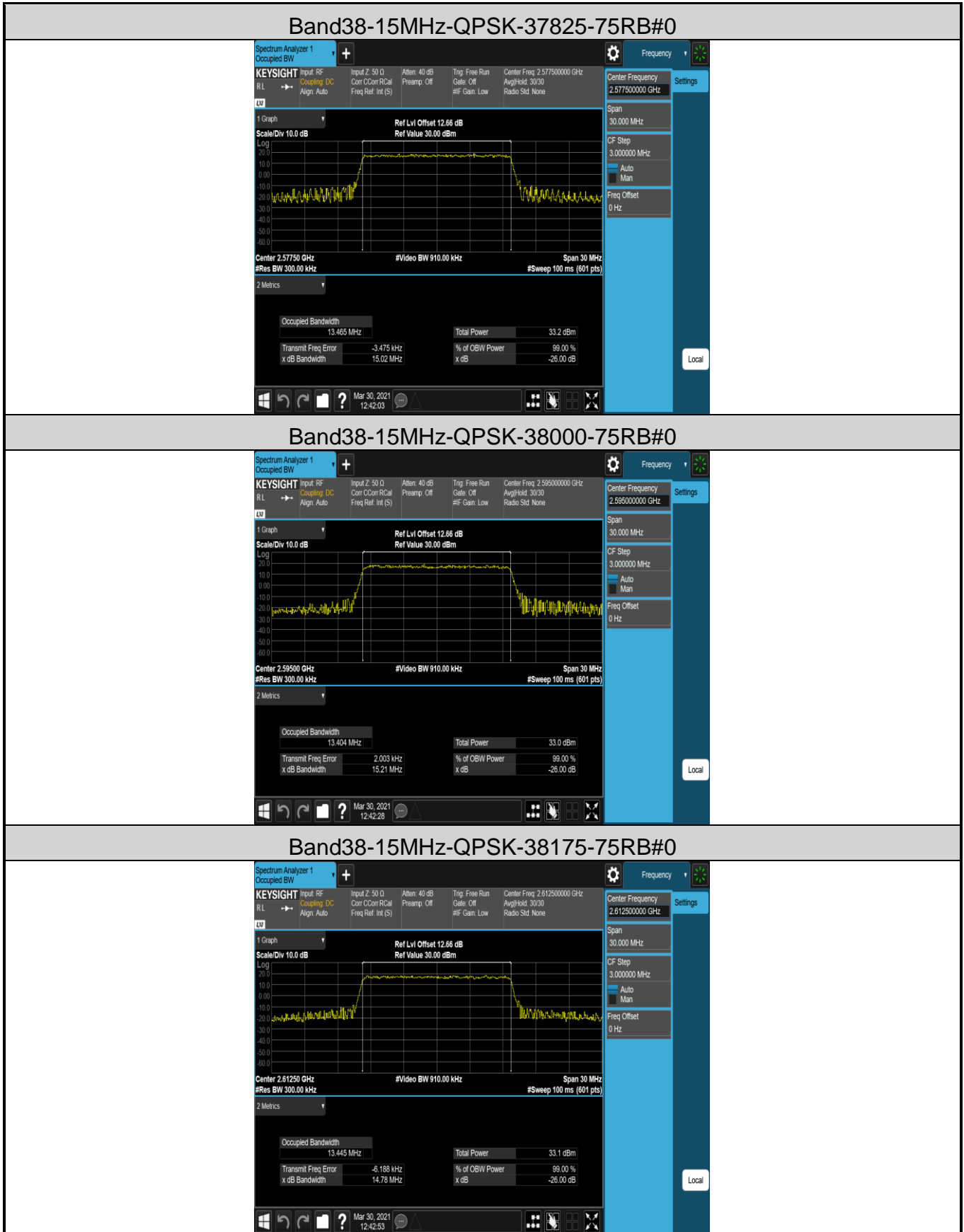


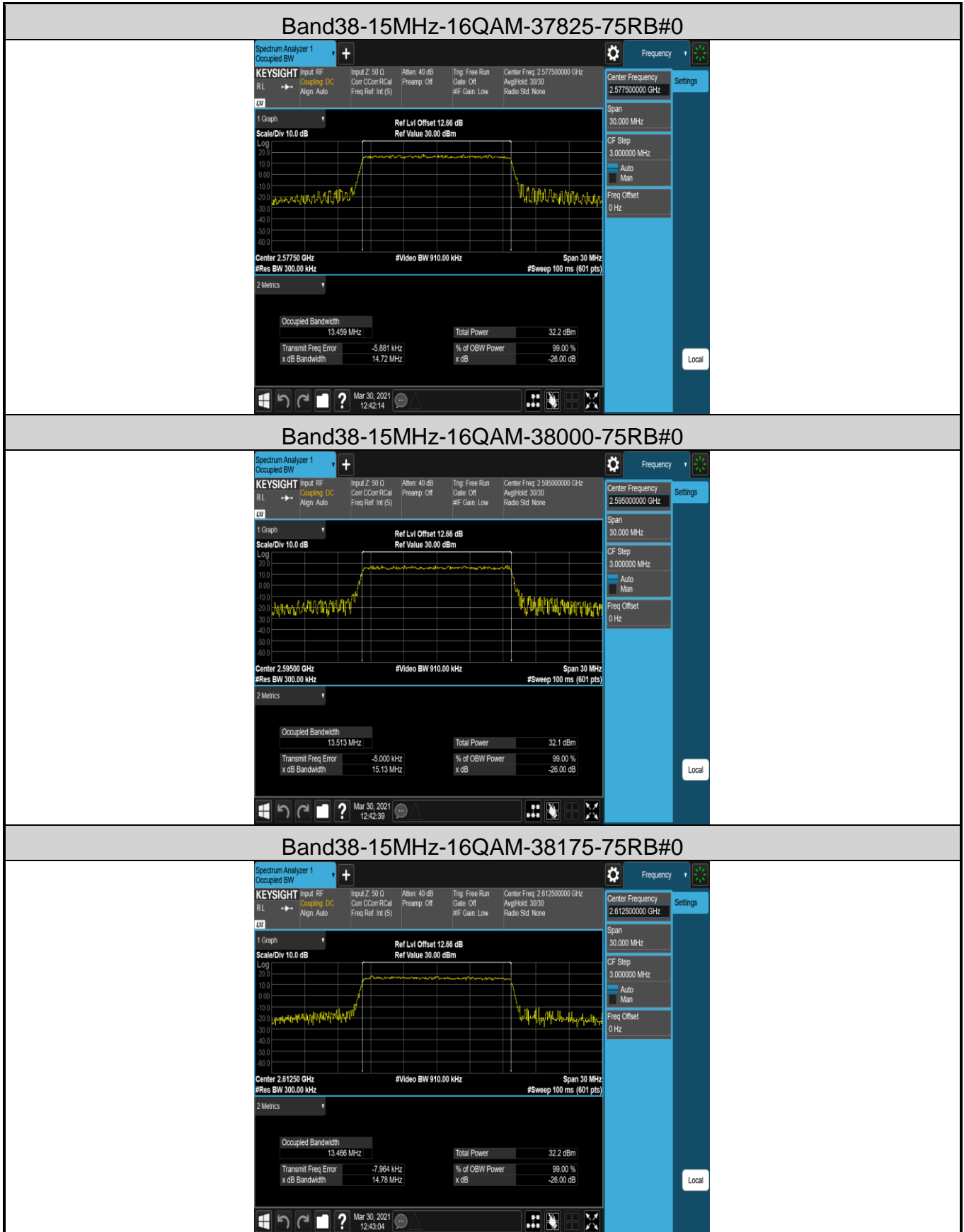






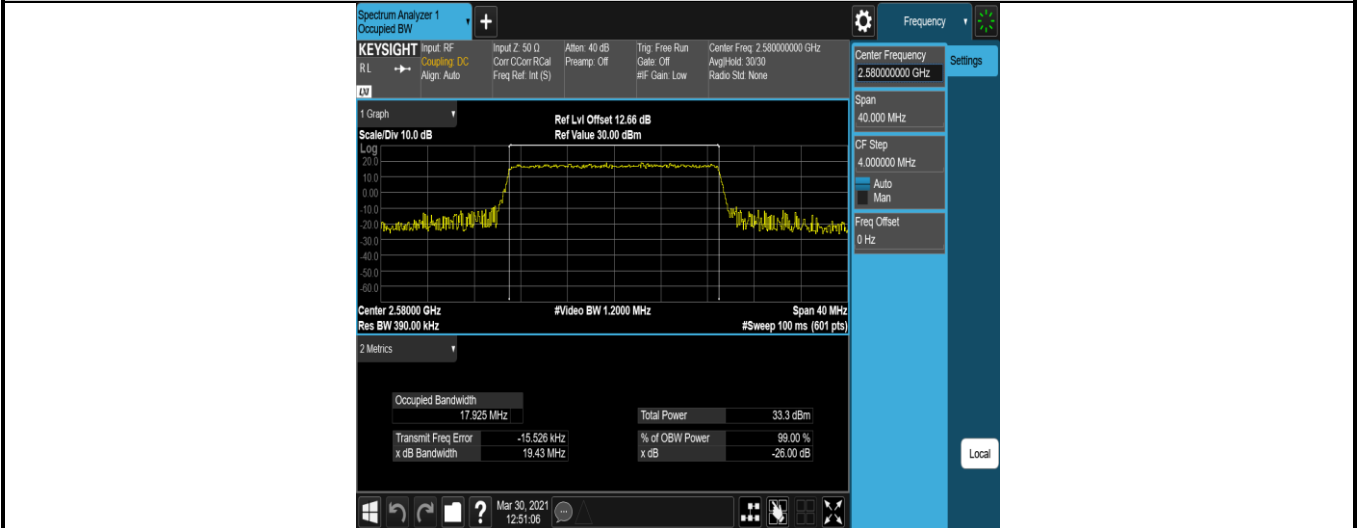




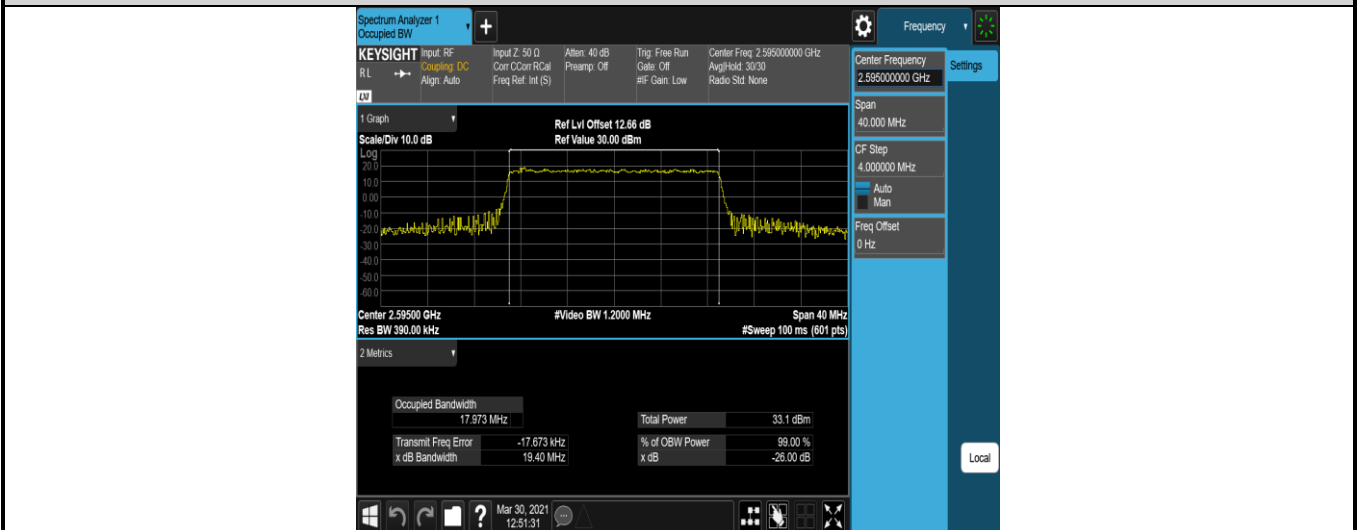




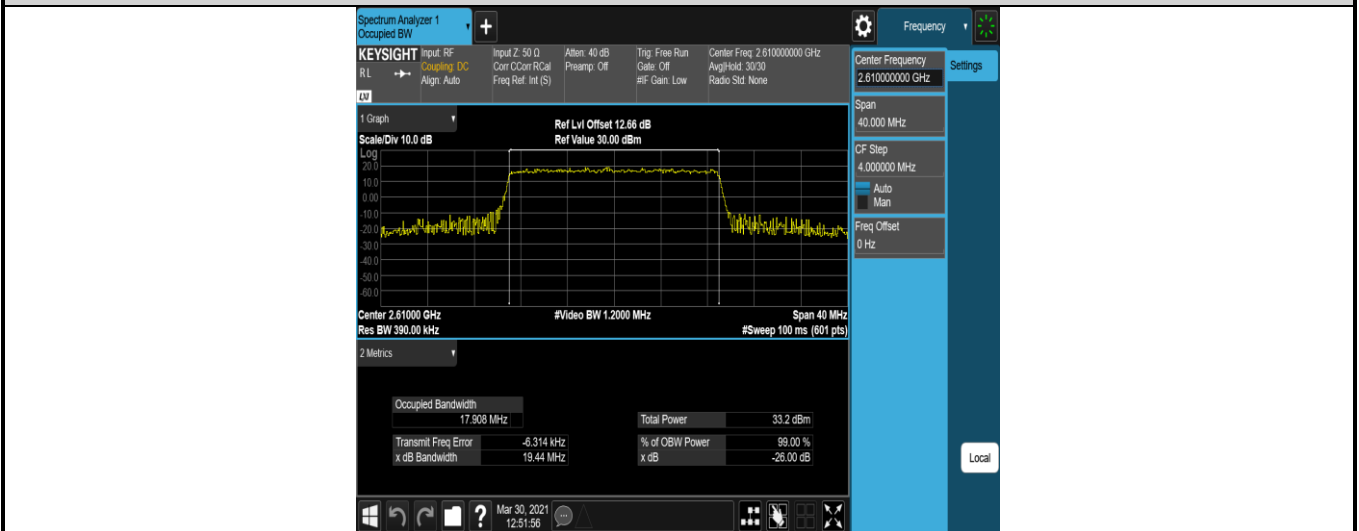
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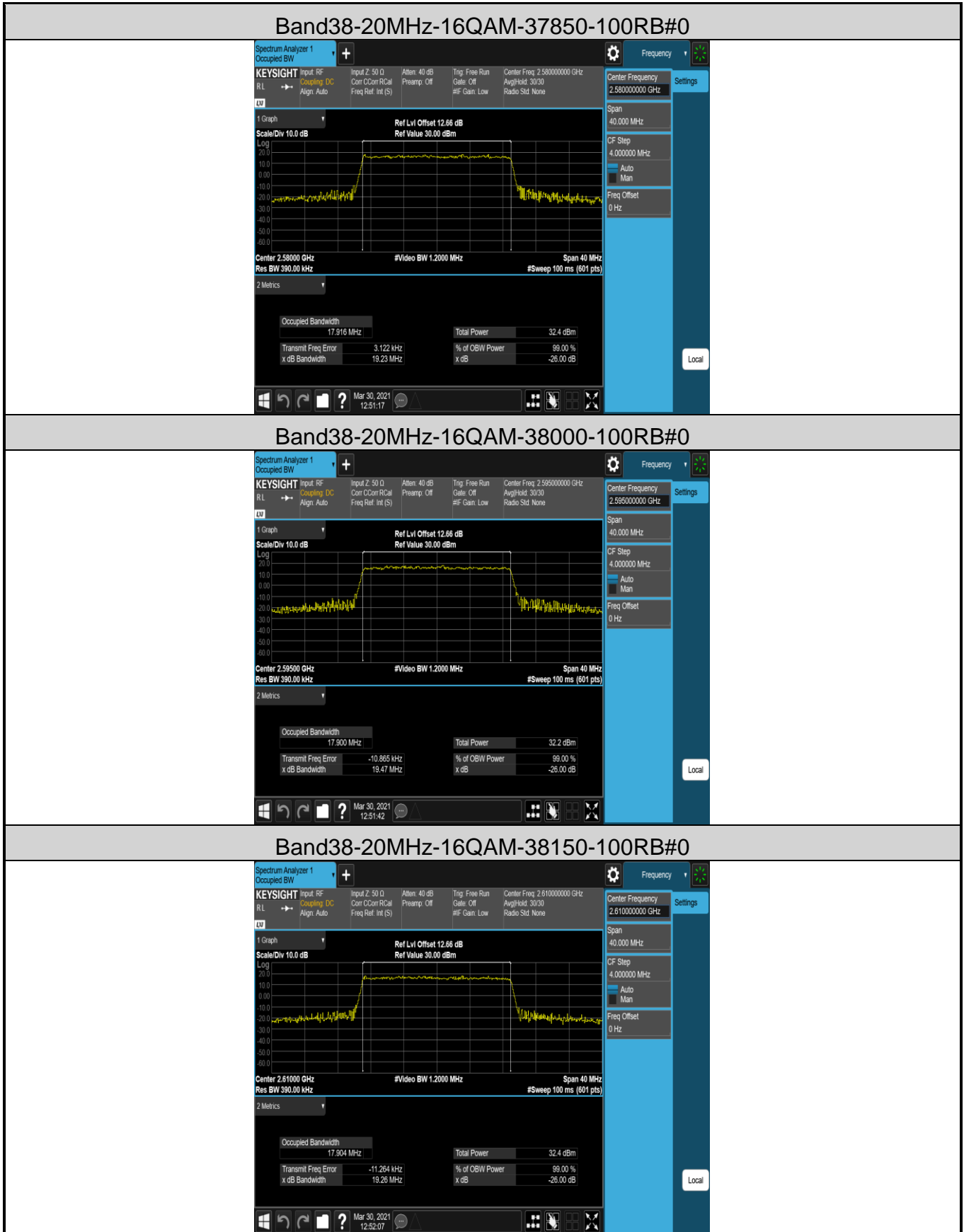


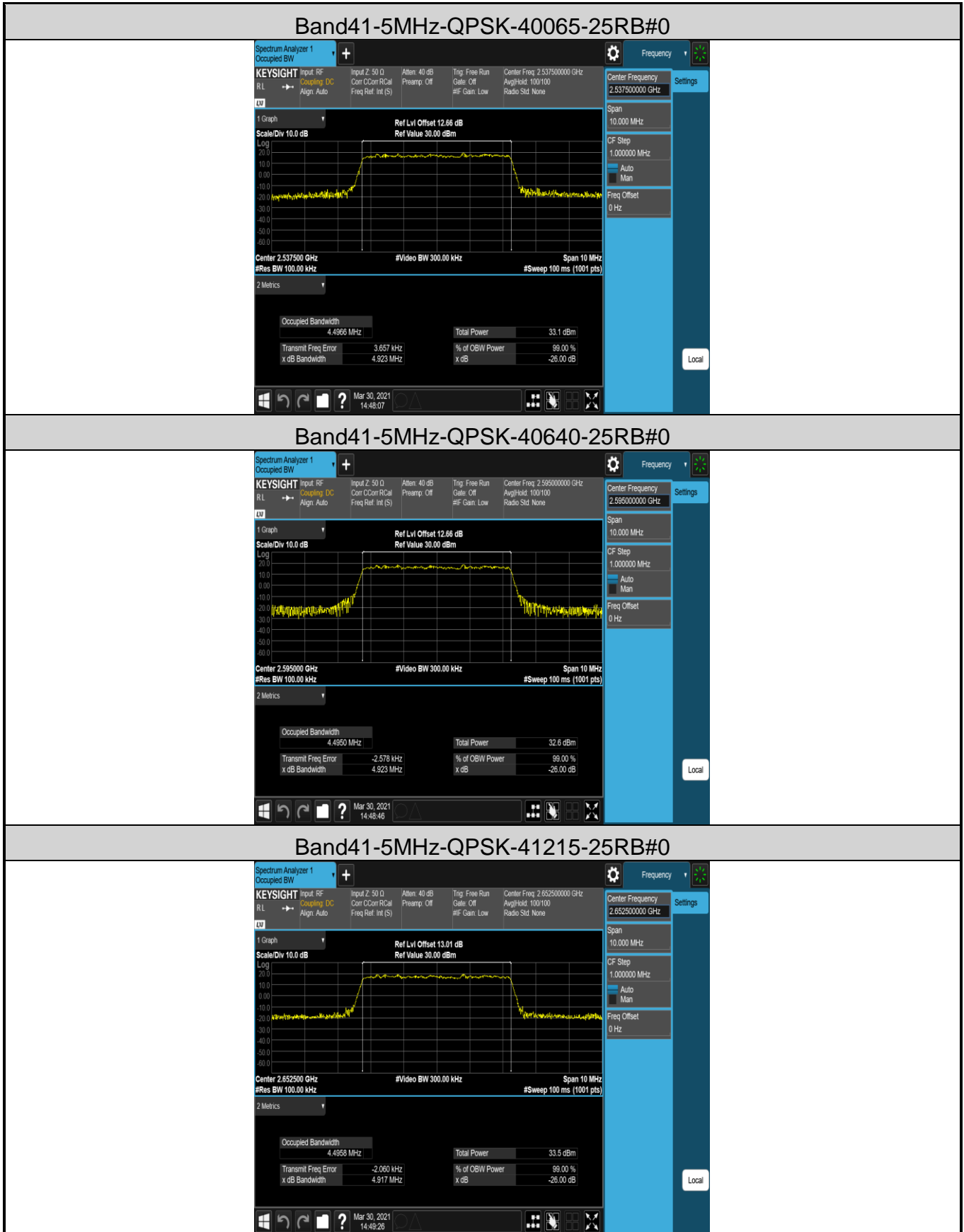
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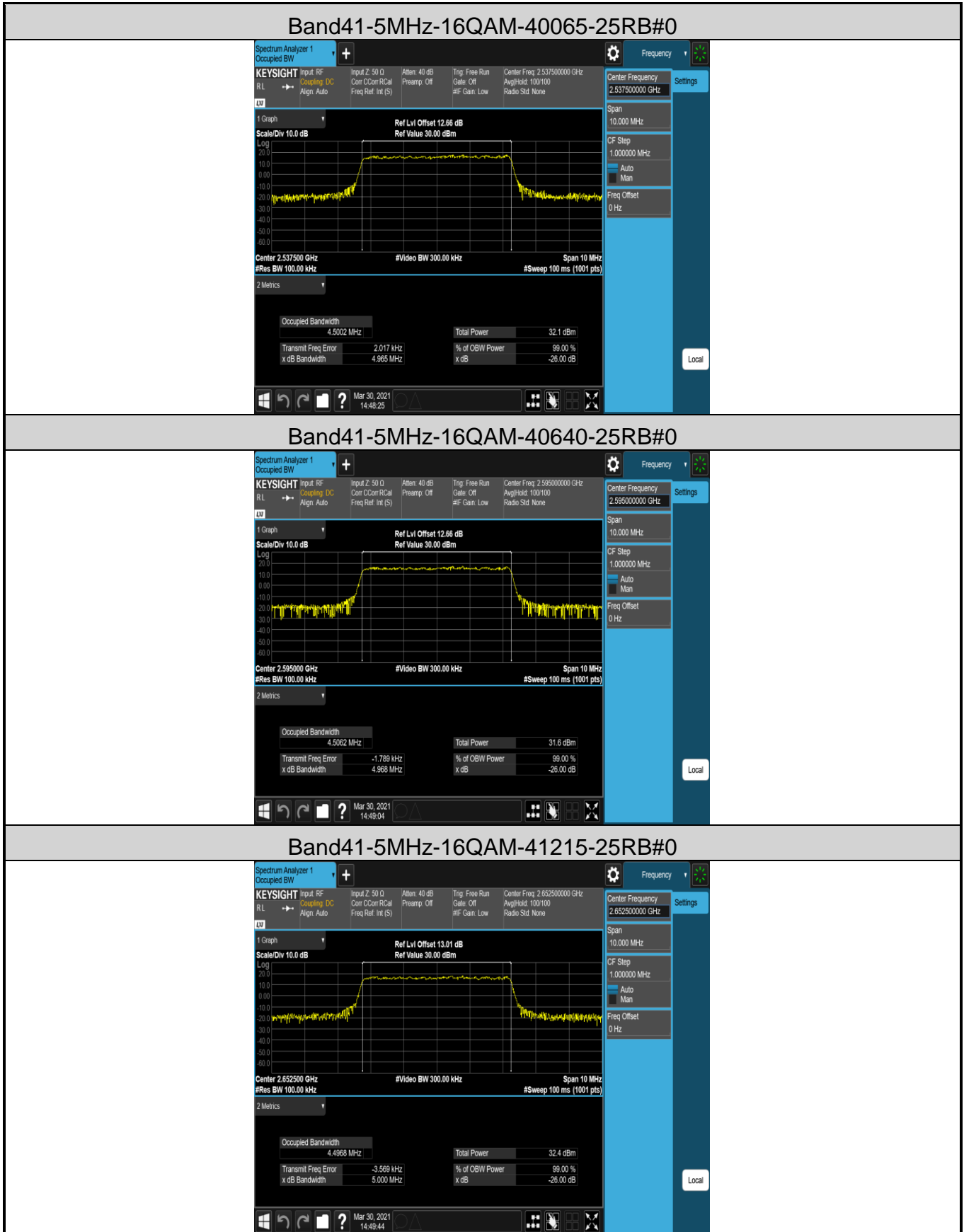


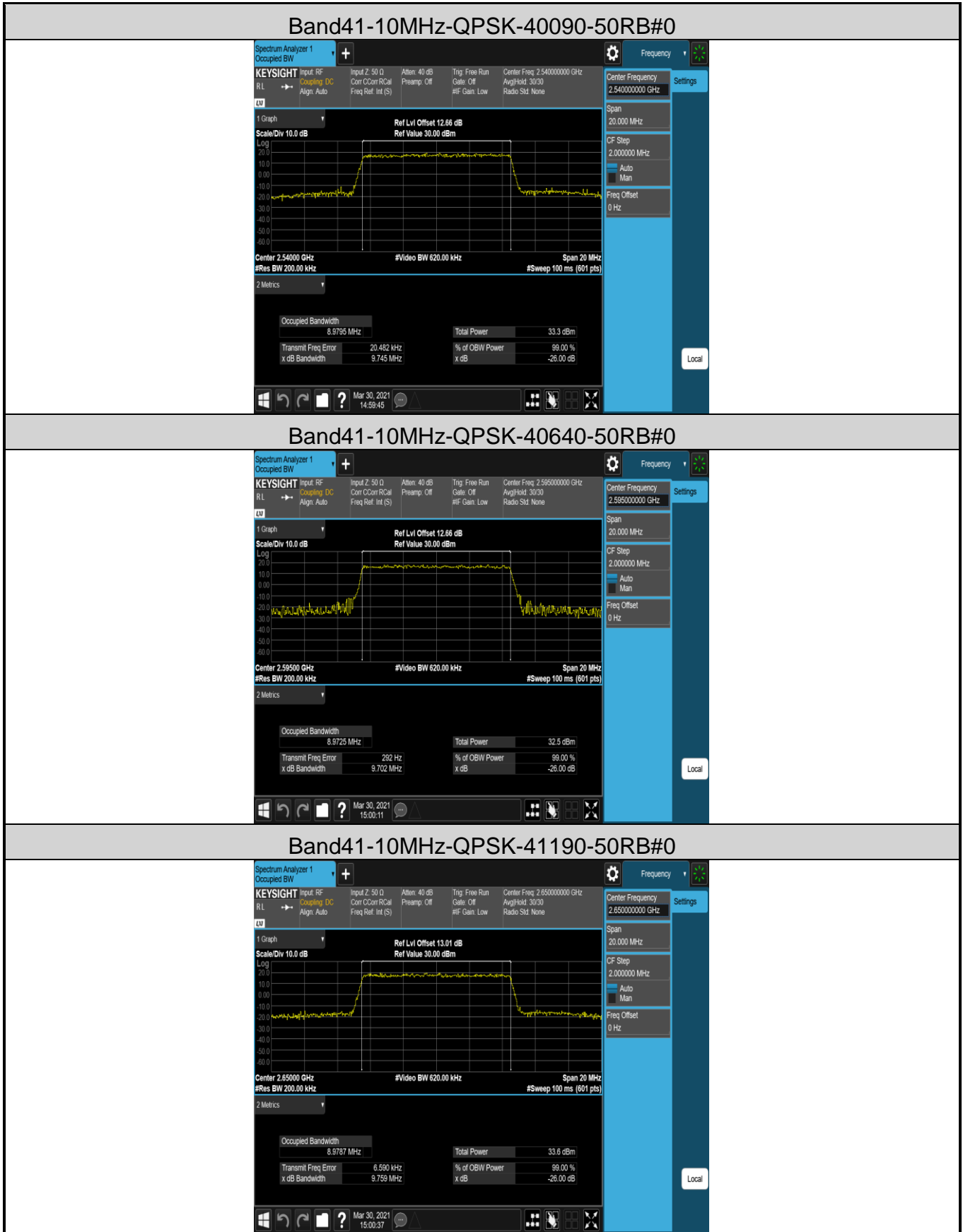
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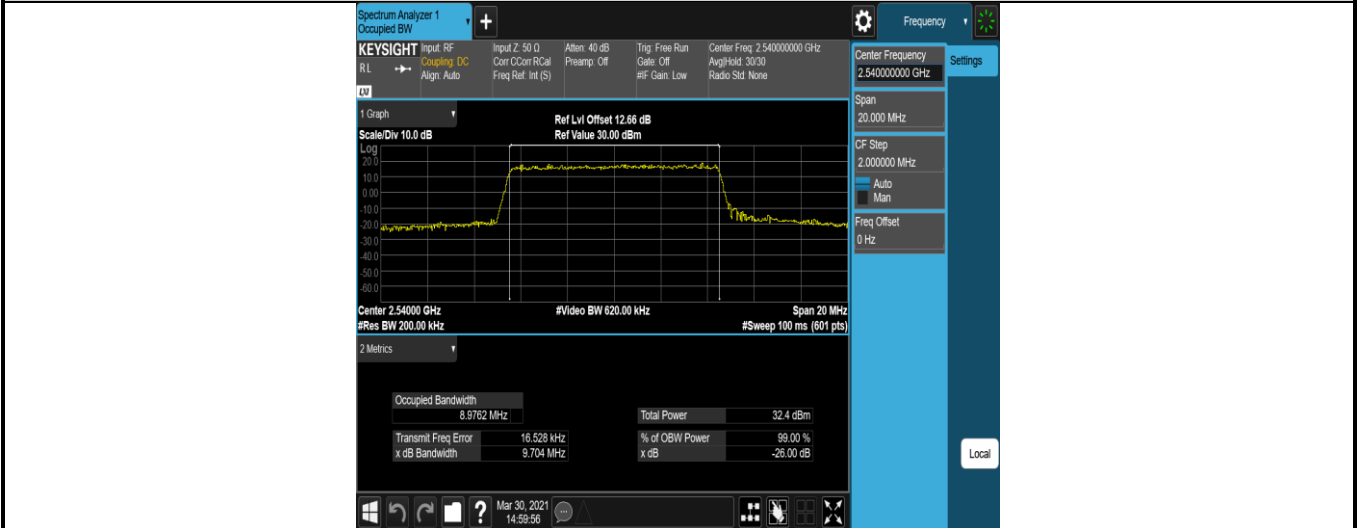




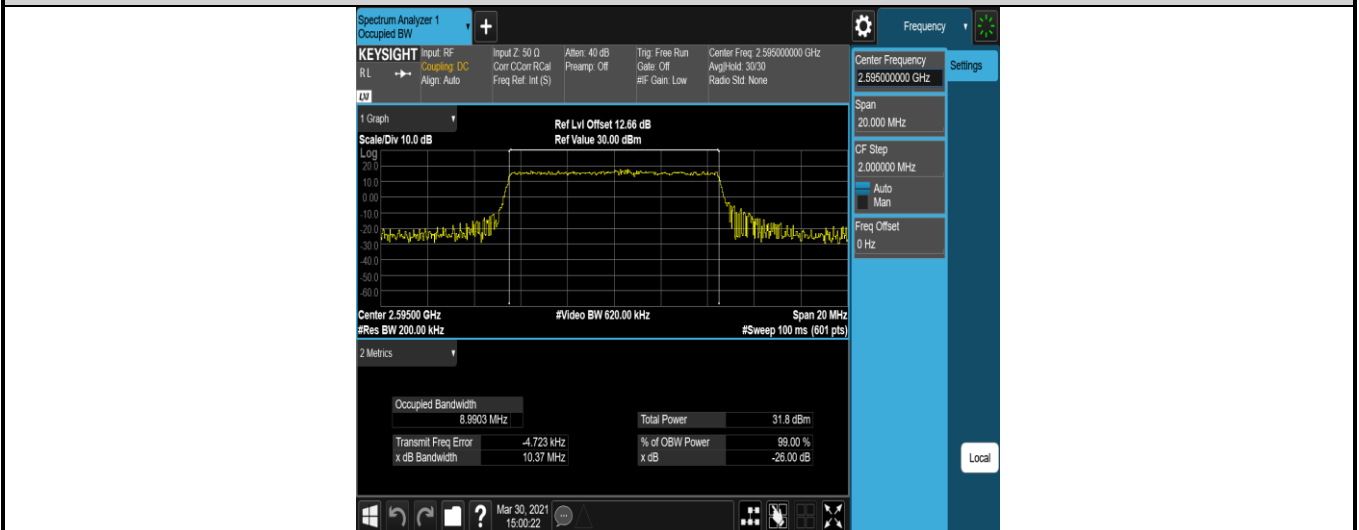




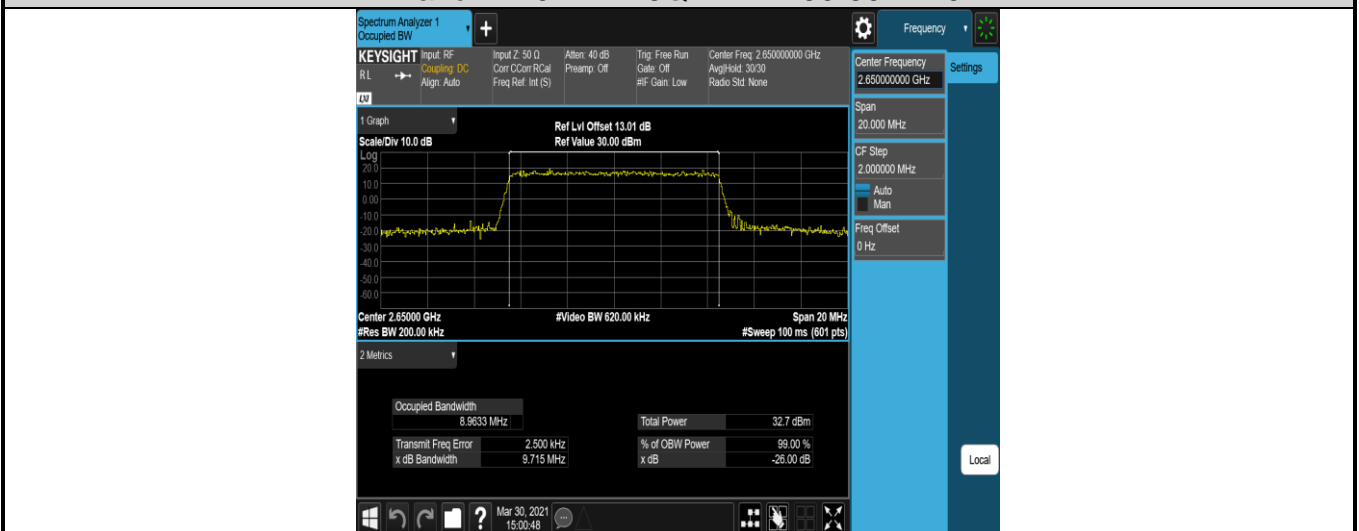
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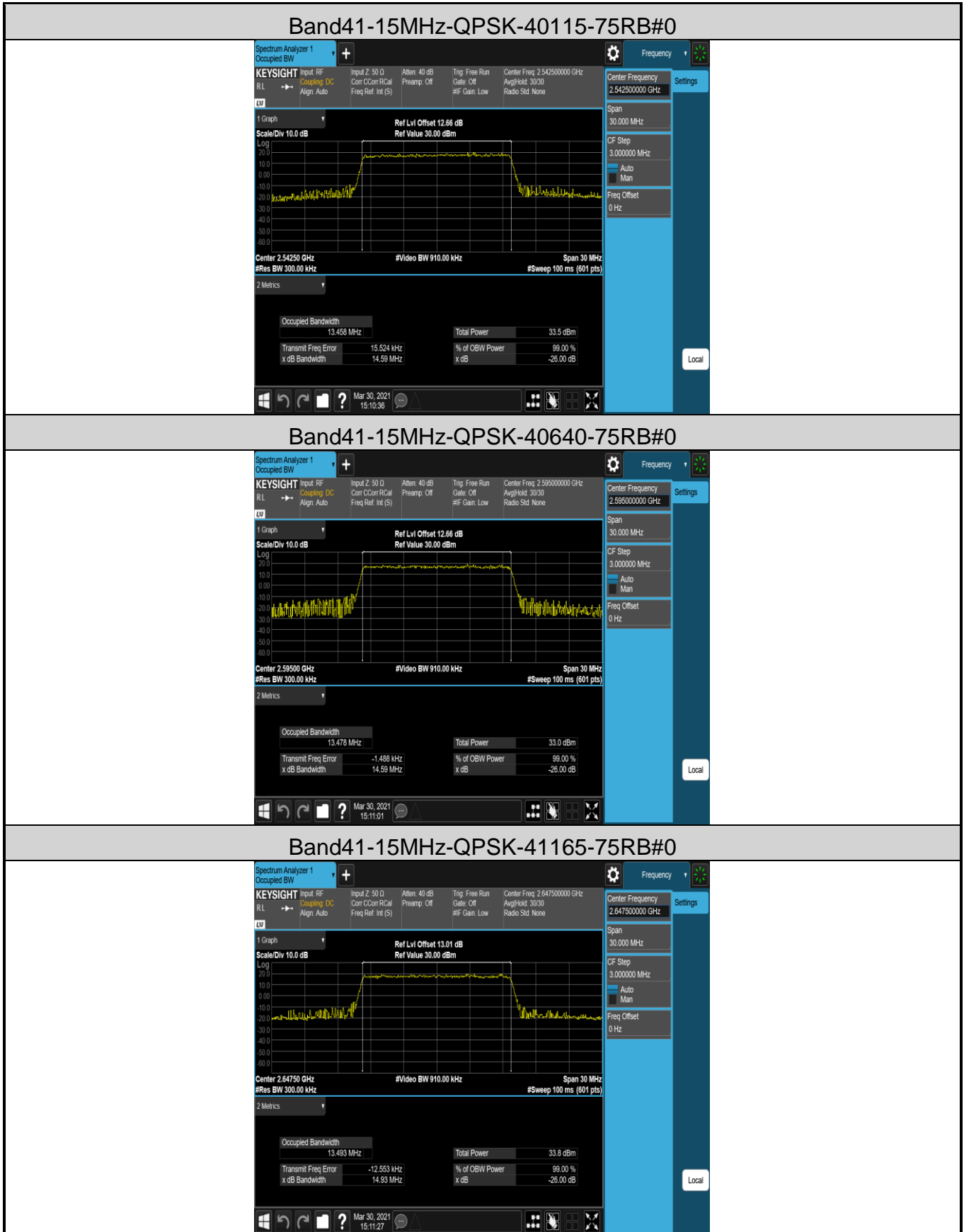


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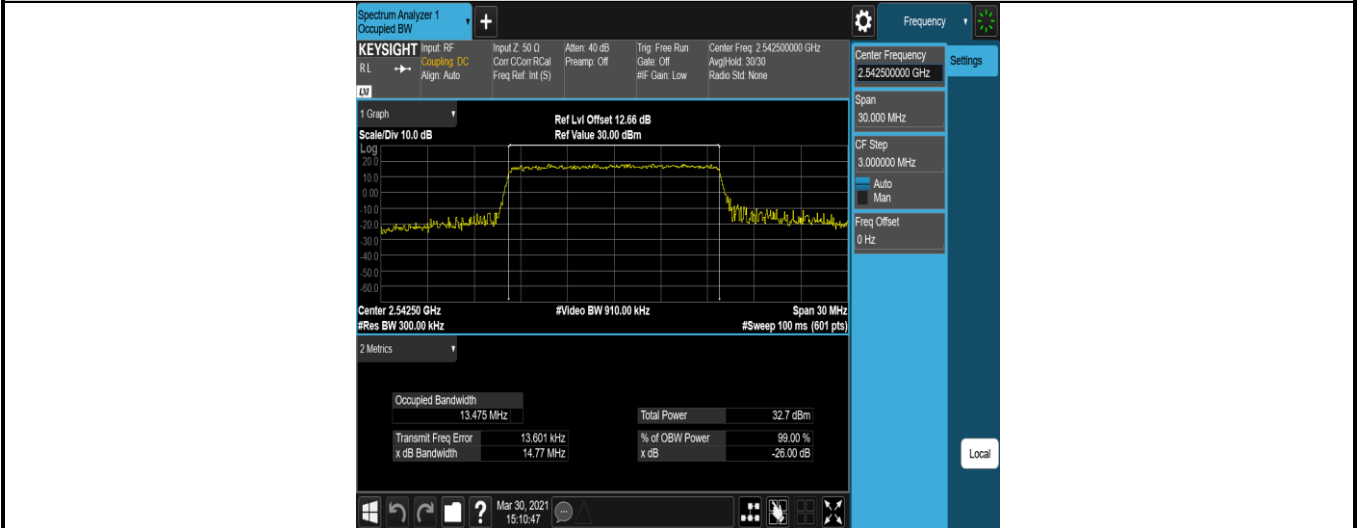


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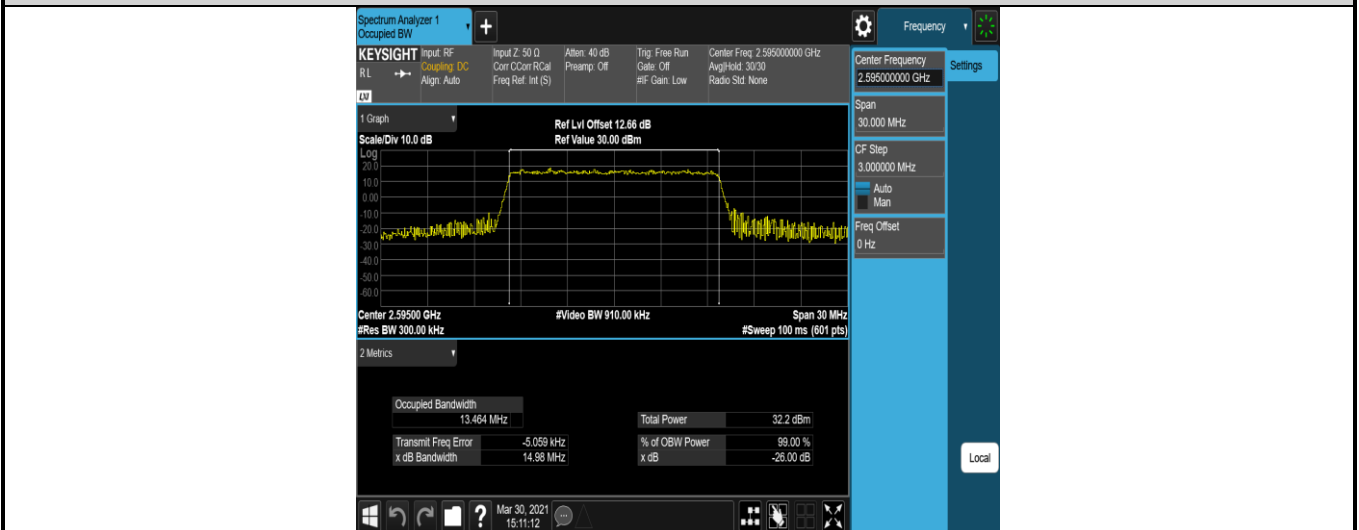




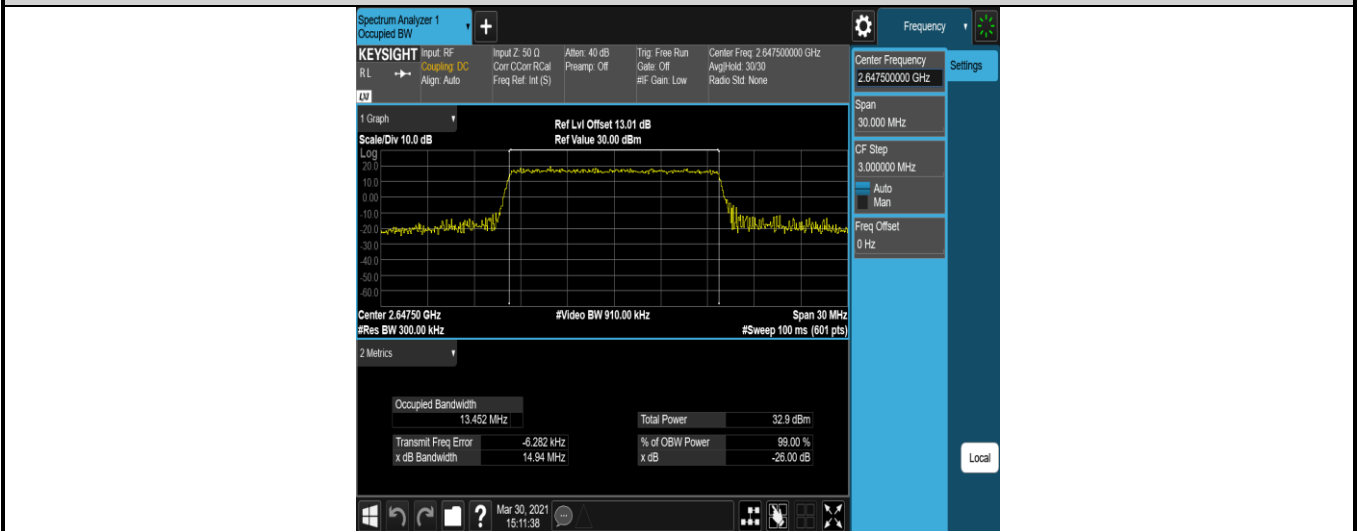
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### Band41-15MHz-16QAM-40640-75RB#0

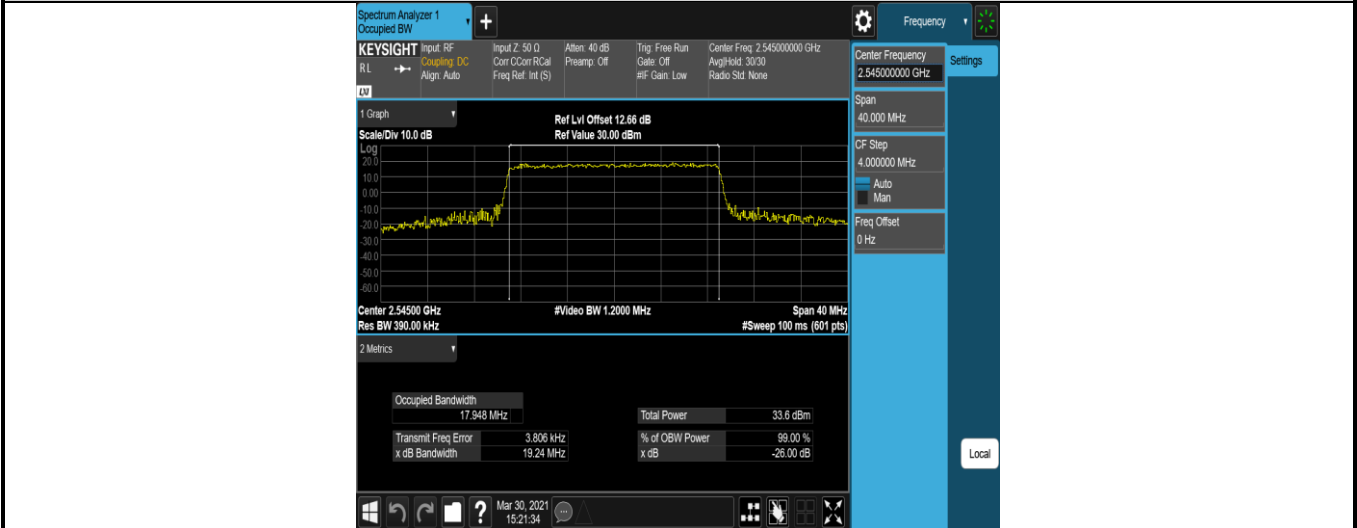


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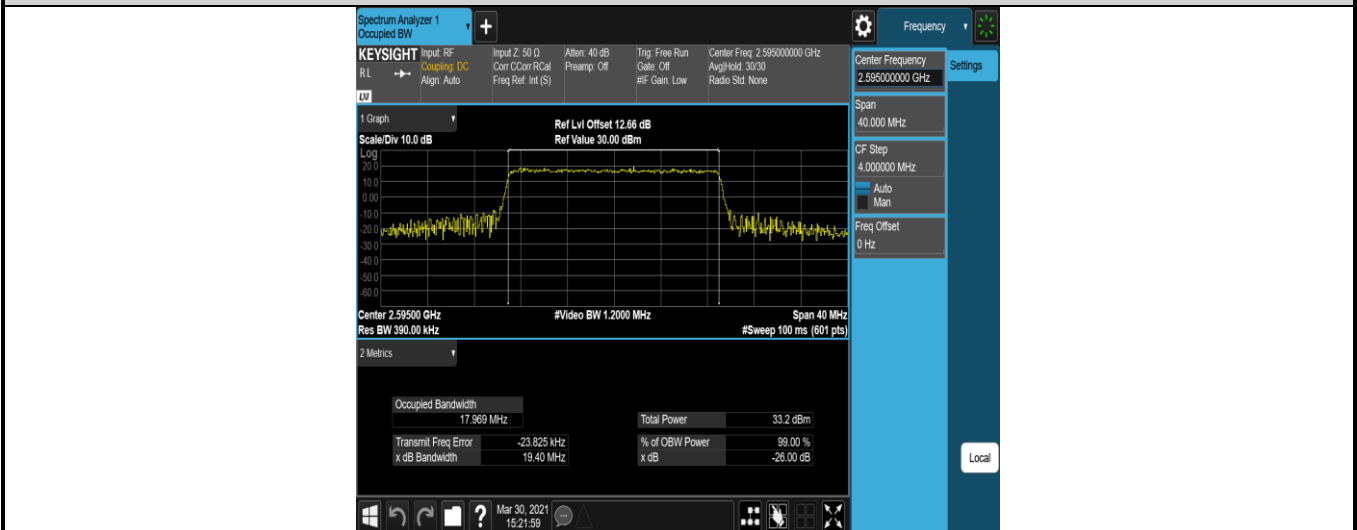




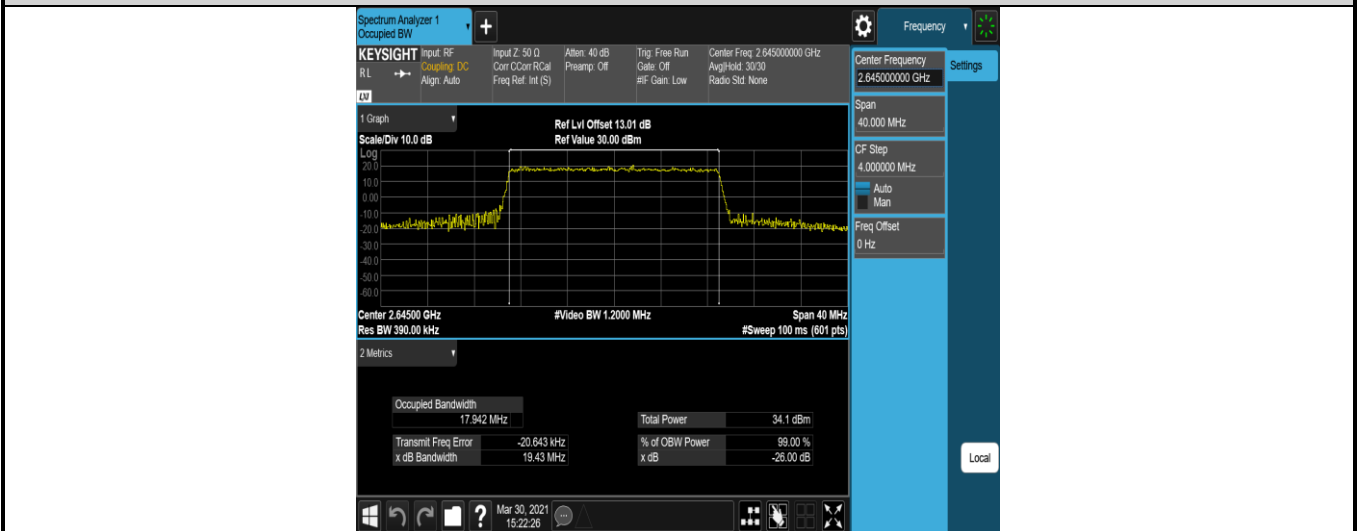
### Band41-20MHz-QPSK-40140-100RB#0



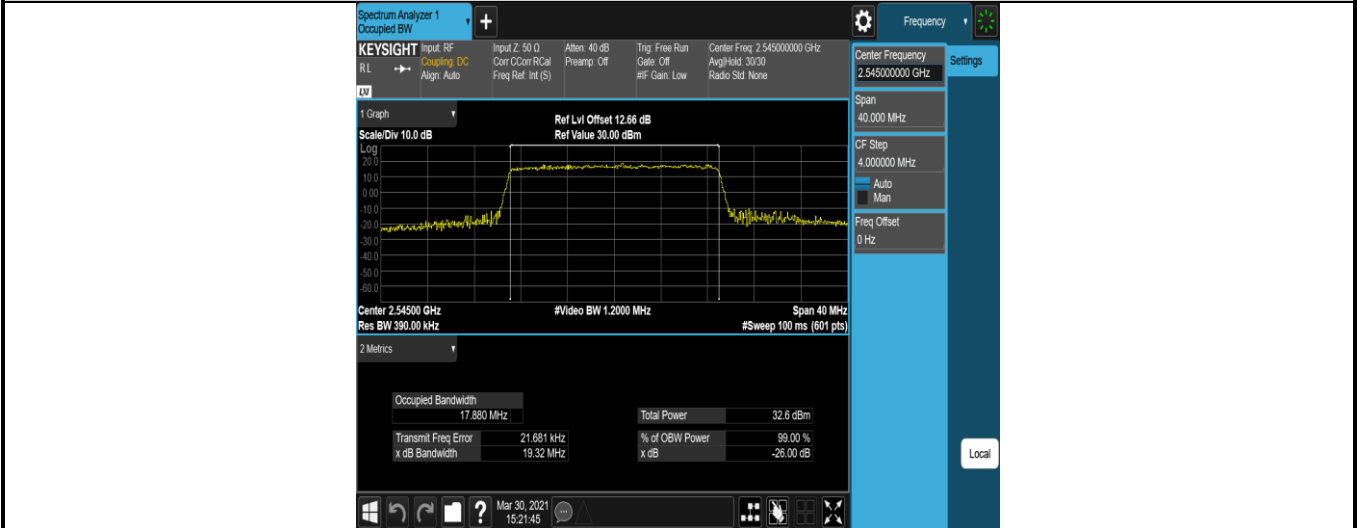
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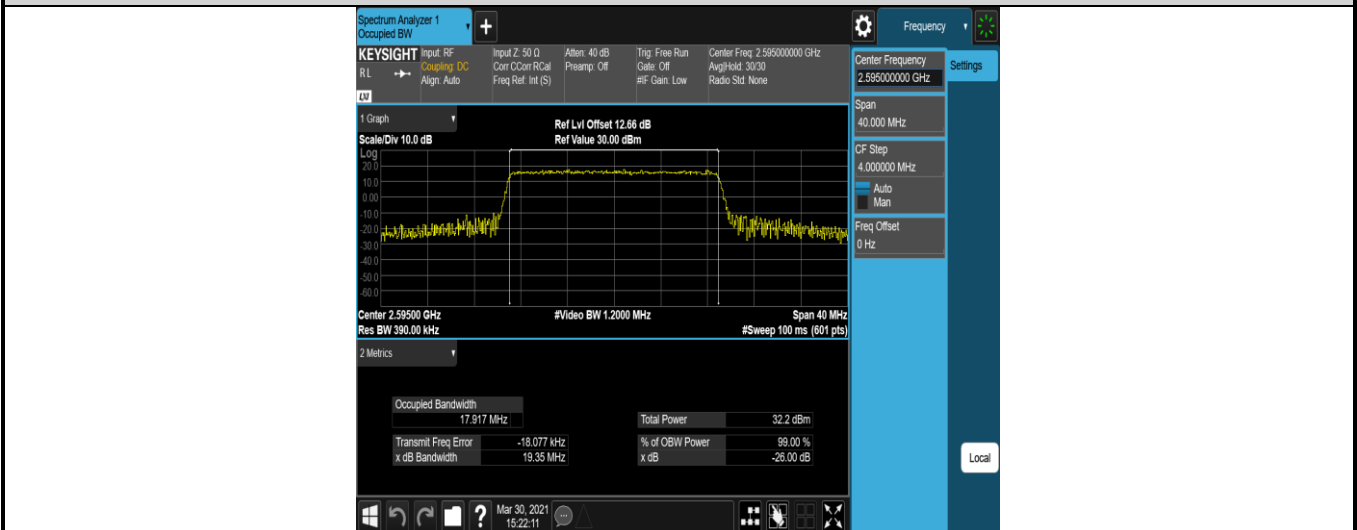
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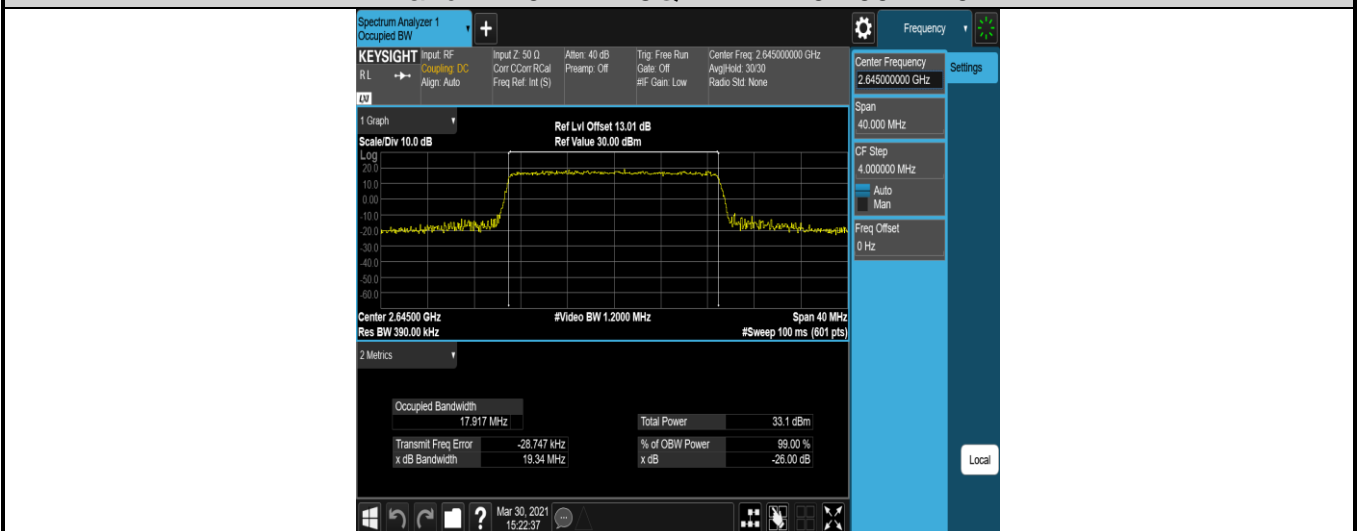
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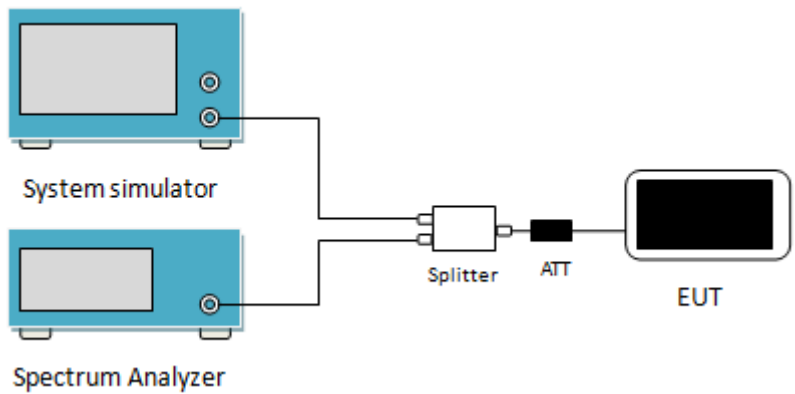
Band41-20MHz-16QAM-40640-100RB#0



Band41-20MHz-16QAM-41140-100RB#0



### 6.4 Out of band emission at antenna terminals

Test Requirement:	Part 22.917(a), Part 24.238 (a), part 27.53(h),Part 27.53(m)
Limit:	<p>LTE Band 2 &amp; 4 &amp; 5: The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least <math>43 + 10 \log_{10}(P)</math> dB (-13 dBm).</p> <p>LTE Band 7 &amp; 38 &amp; 41: For mobile digital stations, the attenuation factor shall be not less than <math>40 + 10 \log(P)</math> dB on all frequencies between the channel edge and 5 megahertz from the channel edge, <math>43 + 10 \log(P)</math> dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and <math>55 + 10 \log(P)</math> dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that <math>43 + 10 \log(P)</math> dB on all frequencies between 2490.5 MHz and 2496 MHz and <math>55 + 10 \log(P)</math> dB at or below 2490.5 MHz.</p>
Test Setup:	 <p>The diagram illustrates the test setup. On the left, there are two blue rectangular units: the top one is labeled 'System simulator' and the bottom one is labeled 'Spectrum Analyzer'. Both have a screen and control buttons. A cable connects the 'System simulator' to a 'Splitter' (a white rectangular box with two ports). The 'Splitter' is connected to an 'ATT' (attenuator, a black rectangular box) and then to an 'EUT' (Equipment Under Test, a black rectangular box with a screen). The 'Spectrum Analyzer' is also connected to the 'Splitter'.</p>
Test Procedure:	<ol style="list-style-type: none"> <li>1 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation.</li> <li>2 For the out of band: For Band 5 &amp; 12 &amp; 17 set the RBW=100 kHz, VBW=300 kHz and for Band 2 &amp; 4 &amp; 7 set the RBW=1 MHz, VBW=3 MHz when below 1 GHz, RBW =1 MHz, VBW=3 MHz when above 1 GHz, Start=30MHz, Stop= 10th harmonic.</li> <li>3 Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions.</li> </ol>
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	Pre-scan all RB Size and offset, and found the RB Size and offset of worst case, so the report shows only the worst case test data.

**Measurement Data:**

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band2	1.4MHz	QPSK	18607	1RB#0	Range1:30~1000MHz	-38.02	PASS
Band2	1.4MHz	QPSK	18607	1RB#0	Range2:1000~20000MHz	-33.34	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	Range1:30~1000MHz	-38.1	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	Range2:1000~20000MHz	-30.47	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	Range1:30~1000MHz	-37.55	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	Range2:1000~20000MHz	-23.63	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	Range1:30~1000MHz	-36.81	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	Range2:1000~20000MHz	-36.71	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	Range1:30~1000MHz	-38.55	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	Range2:1000~20000MHz	-31.62	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	Range1:30~1000MHz	-38.82	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	Range2:1000~20000MHz	-24.57	PASS
Band2	20MHz	QPSK	18700	1RB#0	Range1:30~1000MHz	-38.38	PASS
Band2	20MHz	QPSK	18700	1RB#0	Range2:1000~20000MHz	-30.7	PASS
Band2	20MHz	QPSK	18900	1RB#0	Range1:30~1000MHz	-38.83	PASS
Band2	20MHz	QPSK	18900	1RB#0	Range2:1000~20000MHz	-30.17	PASS
Band2	20MHz	QPSK	19100	1RB#0	Range1:30~1000MHz	-37.84	PASS
Band2	20MHz	QPSK	19100	1RB#0	Range2:1000~20000MHz	-29.7	PASS
Band2	20MHz	16QAM	18700	1RB#0	Range1:30~1000MHz	-37.57	PASS
Band2	20MHz	16QAM	18700	1RB#0	Range2:1000~20000MHz	-32.17	PASS
Band2	20MHz	16QAM	18900	1RB#0	Range1:30~1000MHz	-38.47	PASS
Band2	20MHz	16QAM	18900	1RB#0	Range2:1000~20000MHz	-29.33	PASS
Band2	20MHz	16QAM	19100	1RB#0	Range1:30~1000MHz	-37.74	PASS
Band2	20MHz	16QAM	19100	1RB#0	Range2:1000~20000MHz	-31.5	PASS
Band4	1.4MHz	QPSK	19957	1RB#0	Range1:30~1000MHz	-38.47	PASS
Band4	1.4MHz	QPSK	19957	1RB#0	Range2:1000~20000MHz	-38.27	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	Range1:30~1000MHz	-38.59	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	Range2:1000~20000MHz	-37.55	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	Range1:30~1000MHz	-37.81	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	Range2:1000~20000MHz	-38.08	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	Range1:30~1000MHz	-38.76	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	Range2:1000~20000MHz	-37.85	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	Range1:30~1000MHz	-38.38	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	Range2:1000~20000MHz	-37.67	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	Range1:30~1000MHz	-38.87	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	Range2:1000~20000MHz	-37.6	PASS
Band4	20MHz	QPSK	20050	1RB#0	Range1:30~1000MHz	-38.51	PASS
Band4	20MHz	QPSK	20050	1RB#0	Range2:1000~20000MHz	-38.31	PASS
Band4	20MHz	QPSK	20175	1RB#0	Range1:30~1000MHz	-38.71	PASS
Band4	20MHz	QPSK	20175	1RB#0	Range2:1000~20000MHz	-37.4	PASS
Band4	20MHz	QPSK	20300	1RB#0	Range1:30~1000MHz	-37.32	PASS
Band4	20MHz	QPSK	20300	1RB#0	Range2:1000~20000MHz	-37.99	PASS
Band4	20MHz	16QAM	20050	1RB#0	Range1:30~1000MHz	-37.76	PASS
Band4	20MHz	16QAM	20050	1RB#0	Range2:1000~20000MHz	-37.84	PASS
Band4	20MHz	16QAM	20175	1RB#0	Range1:30~1000MHz	-38.18	PASS
Band4	20MHz	16QAM	20175	1RB#0	Range2:1000~20000MHz	-37.84	PASS
Band4	20MHz	16QAM	20300	1RB#0	Range1:30~1000MHz	-38.27	PASS

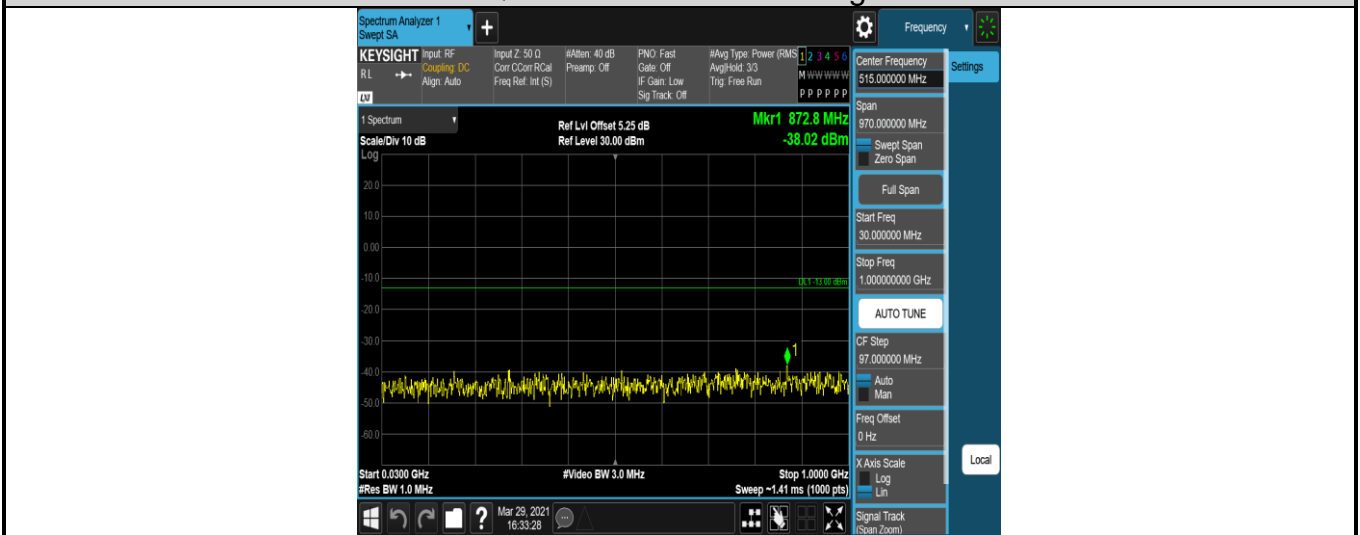
Band4	20MHz	16QAM	20300	1RB#0	Range2:1000~20000MHz	-38.27	PASS
Band5	1.4MHz	QPSK	20407	1RB#0	Range1:30~1000MHz	-48.3	PASS
Band5	1.4MHz	QPSK	20407	1RB#0	Range2:1000~10000MHz	-39.7	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	Range1:30~1000MHz	-48.33	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	Range2:1000~10000MHz	-38.99	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	Range1:30~1000MHz	-48.61	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	Range2:1000~10000MHz	-39.72	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	Range1:30~1000MHz	-48.19	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	Range2:1000~10000MHz	-40.25	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	Range1:30~1000MHz	-48.39	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	Range2:1000~10000MHz	-40.08	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	Range1:30~1000MHz	-48.84	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	Range2:1000~10000MHz	-39.8	PASS
Band5	10MHz	QPSK	20450	1RB#0	Range1:30~1000MHz	-48.69	PASS
Band5	10MHz	QPSK	20450	1RB#0	Range2:1000~10000MHz	-40.15	PASS
Band5	10MHz	QPSK	20525	1RB#0	Range1:30~1000MHz	-48.14	PASS
Band5	10MHz	QPSK	20525	1RB#0	Range2:1000~10000MHz	-39.4	PASS
Band5	10MHz	QPSK	20600	1RB#0	Range1:30~1000MHz	-47.73	PASS
Band5	10MHz	QPSK	20600	1RB#0	Range2:1000~10000MHz	-40.27	PASS
Band5	10MHz	16QAM	20450	1RB#0	Range1:30~1000MHz	-48.3	PASS
Band5	10MHz	16QAM	20450	1RB#0	Range2:1000~10000MHz	-39.63	PASS
Band5	10MHz	16QAM	20525	1RB#0	Range1:30~1000MHz	-48.76	PASS
Band5	10MHz	16QAM	20525	1RB#0	Range2:1000~10000MHz	-38.91	PASS
Band5	10MHz	16QAM	20600	1RB#0	Range1:30~1000MHz	-47.9	PASS
Band5	10MHz	16QAM	20600	1RB#0	Range2:1000~10000MHz	-40.03	PASS
Band7	5MHz	QPSK	20775	1RB#0	Range1:30~1000MHz	-48.22	PASS
Band7	5MHz	QPSK	20775	1RB#0	Range2:1000~27000MHz	-34.28	PASS
Band7	5MHz	QPSK	21100	1RB#0	Range1:30~1000MHz	-48.24	PASS
Band7	5MHz	QPSK	21100	1RB#0	Range2:1000~27000MHz	-35.18	PASS
Band7	5MHz	QPSK	21425	1RB#0	Range1:30~1000MHz	-48.37	PASS
Band7	5MHz	QPSK	21425	1RB#0	Range2:1000~27000MHz	-34.52	PASS
Band7	5MHz	16QAM	20775	1RB#0	Range1:30~1000MHz	-47.74	PASS
Band7	5MHz	16QAM	20775	1RB#0	Range2:1000~27000MHz	-34.4	PASS
Band7	5MHz	16QAM	21100	1RB#0	Range1:30~1000MHz	-48.69	PASS
Band7	5MHz	16QAM	21100	1RB#0	Range2:1000~27000MHz	-33.88	PASS
Band7	5MHz	16QAM	21425	1RB#0	Range1:30~1000MHz	-47.69	PASS
Band7	5MHz	16QAM	21425	1RB#0	Range2:1000~27000MHz	-34.41	PASS
Band7	20MHz	QPSK	20850	1RB#0	Range1:30~1000MHz	-49	PASS
Band7	20MHz	QPSK	20850	1RB#0	Range2:1000~27000MHz	-34.51	PASS
Band7	20MHz	QPSK	21100	1RB#0	Range1:30~1000MHz	-48.47	PASS
Band7	20MHz	QPSK	21100	1RB#0	Range2:1000~27000MHz	-34.79	PASS
Band7	20MHz	QPSK	21350	1RB#0	Range1:30~1000MHz	-47.75	PASS
Band7	20MHz	QPSK	21350	1RB#0	Range2:1000~27000MHz	-33.82	PASS
Band7	20MHz	16QAM	20850	1RB#0	Range1:30~1000MHz	-49.15	PASS
Band7	20MHz	16QAM	20850	1RB#0	Range2:1000~27000MHz	-34.72	PASS
Band7	20MHz	16QAM	21100	1RB#0	Range1:30~1000MHz	-48.86	PASS
Band7	20MHz	16QAM	21100	1RB#0	Range2:1000~27000MHz	-33.93	PASS
Band7	20MHz	16QAM	21350	1RB#0	Range1:30~1000MHz	-47.66	PASS
Band7	20MHz	16QAM	21350	1RB#0	Range2:1000~27000MHz	-33.71	PASS
Band38	5MHz	QPSK	37775	1RB#0	Range1:30~1000MHz	-47.59	PASS



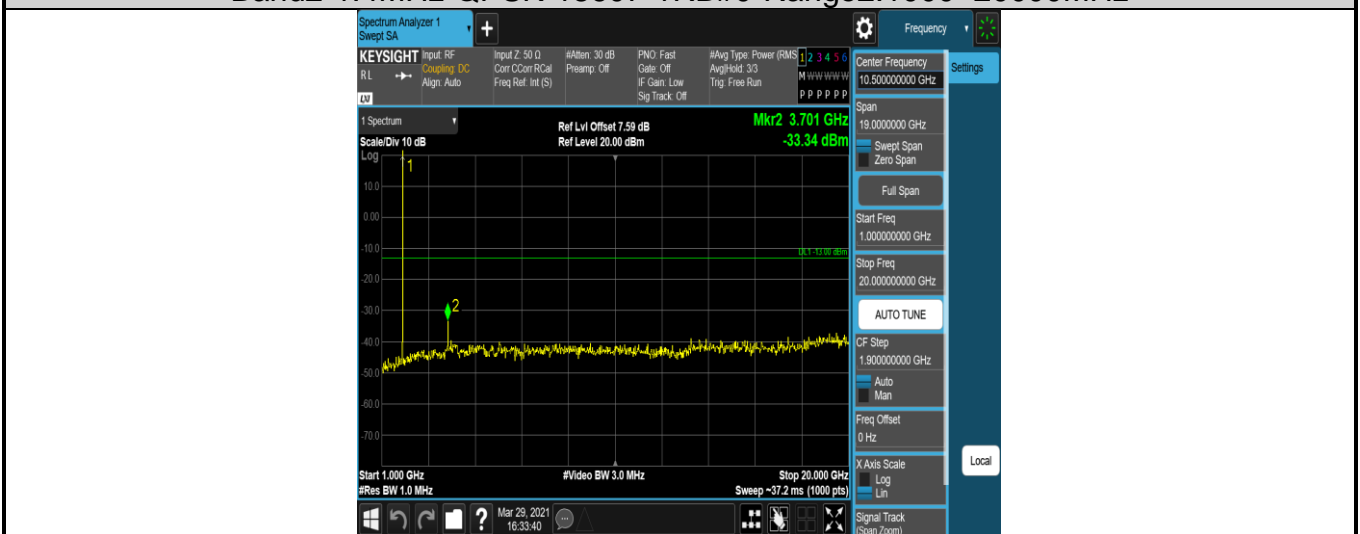
Band38	5MHz	QPSK	37775	1RB#0	Range2:1000~27000MHz	-33.6	PASS
Band38	5MHz	QPSK	38000	1RB#0	Range1:30~1000MHz	-48.4	PASS
Band38	5MHz	QPSK	38000	1RB#0	Range2:1000~27000MHz	-35.1	PASS
Band38	5MHz	QPSK	38225	1RB#0	Range1:30~1000MHz	-48.77	PASS
Band38	5MHz	QPSK	38225	1RB#0	Range2:1000~27000MHz	-34.67	PASS
Band38	5MHz	16QAM	37775	1RB#0	Range1:30~1000MHz	-49.49	PASS
Band38	5MHz	16QAM	37775	1RB#0	Range2:1000~27000MHz	-34.76	PASS
Band38	5MHz	16QAM	38000	1RB#0	Range1:30~1000MHz	-48.46	PASS
Band38	5MHz	16QAM	38000	1RB#0	Range2:1000~27000MHz	-34.34	PASS
Band38	5MHz	16QAM	38225	1RB#0	Range1:30~1000MHz	-47.72	PASS
Band38	5MHz	16QAM	38225	1RB#0	Range2:1000~27000MHz	-34.36	PASS
Band38	20MHz	QPSK	37850	1RB#0	Range1:30~1000MHz	-48.58	PASS
Band38	20MHz	QPSK	37850	1RB#0	Range2:1000~27000MHz	-34.59	PASS
Band38	20MHz	QPSK	38000	1RB#0	Range1:30~1000MHz	-48.19	PASS
Band38	20MHz	QPSK	38000	1RB#0	Range2:1000~27000MHz	-34.29	PASS
Band38	20MHz	QPSK	38150	1RB#0	Range1:30~1000MHz	-48.94	PASS
Band38	20MHz	QPSK	38150	1RB#0	Range2:1000~27000MHz	-34.83	PASS
Band38	20MHz	16QAM	37850	1RB#0	Range1:30~1000MHz	-48.39	PASS
Band38	20MHz	16QAM	37850	1RB#0	Range2:1000~27000MHz	-34.88	PASS
Band38	20MHz	16QAM	38000	1RB#0	Range1:30~1000MHz	-47.93	PASS
Band38	20MHz	16QAM	38000	1RB#0	Range2:1000~27000MHz	-34.18	PASS
Band38	20MHz	16QAM	38150	1RB#0	Range1:30~1000MHz	-49.26	PASS
Band38	20MHz	16QAM	38150	1RB#0	Range2:1000~27000MHz	-34.51	PASS
Band41	5MHz	QPSK	40065	1RB#0	Range1:30~1000MHz	-48.71	PASS
Band41	5MHz	QPSK	40065	1RB#0	Range2:1000~27000MHz	-33.51	PASS
Band41	5MHz	QPSK	40640	1RB#0	Range1:30~1000MHz	-48.72	PASS
Band41	5MHz	QPSK	40640	1RB#0	Range2:1000~27000MHz	-34.3	PASS
Band41	5MHz	QPSK	41215	1RB#0	Range1:30~1000MHz	-47.72	PASS
Band41	5MHz	QPSK	41215	1RB#0	Range2:1000~27000MHz	-34.74	PASS
Band41	5MHz	16QAM	40065	1RB#0	Range1:30~1000MHz	-49.18	PASS
Band41	5MHz	16QAM	40065	1RB#0	Range2:1000~27000MHz	-34.32	PASS
Band41	5MHz	16QAM	40640	1RB#0	Range1:30~1000MHz	-48.26	PASS
Band41	5MHz	16QAM	40640	1RB#0	Range2:1000~27000MHz	-34.54	PASS
Band41	5MHz	16QAM	41215	1RB#0	Range1:30~1000MHz	-48.71	PASS
Band41	5MHz	16QAM	41215	1RB#0	Range2:1000~27000MHz	-34.82	PASS
Band41	20MHz	QPSK	40140	1RB#0	Range1:30~1000MHz	-47.54	PASS
Band41	20MHz	QPSK	40140	1RB#0	Range2:1000~27000MHz	-34.84	PASS
Band41	20MHz	QPSK	40640	1RB#0	Range1:30~1000MHz	-49.17	PASS
Band41	20MHz	QPSK	40640	1RB#0	Range2:1000~27000MHz	-33.77	PASS
Band41	20MHz	QPSK	41140	1RB#0	Range1:30~1000MHz	-48.25	PASS
Band41	20MHz	QPSK	41140	1RB#0	Range2:1000~27000MHz	-34.93	PASS
Band41	20MHz	16QAM	40140	1RB#0	Range1:30~1000MHz	-47.68	PASS
Band41	20MHz	16QAM	40140	1RB#0	Range2:1000~27000MHz	-34.54	PASS
Band41	20MHz	16QAM	40640	1RB#0	Range1:30~1000MHz	-49.18	PASS
Band41	20MHz	16QAM	40640	1RB#0	Range2:1000~27000MHz	-34.2	PASS
Band41	20MHz	16QAM	41140	1RB#0	Range1:30~1000MHz	-48.87	PASS
Band41	20MHz	16QAM	41140	1RB#0	Range2:1000~27000MHz	-33.12	PASS

Test plots as follows (Conducted spurious emission) (worst case):

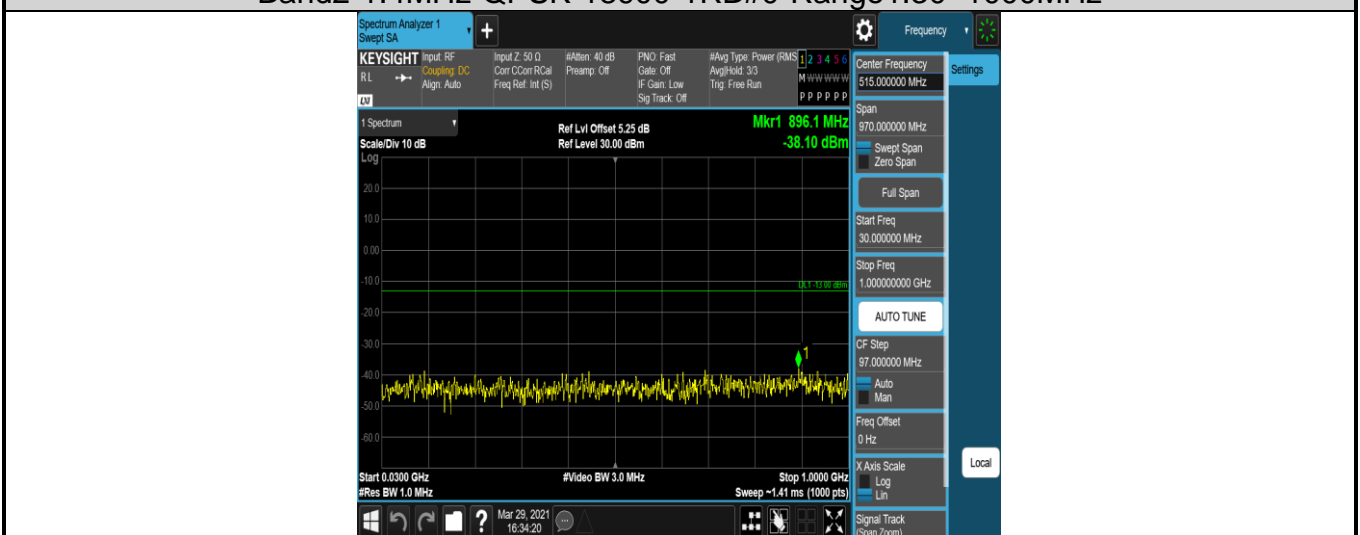
Band2-1.4MHz-QPSK-18607-1RB#0-Range1:30~1000MHz



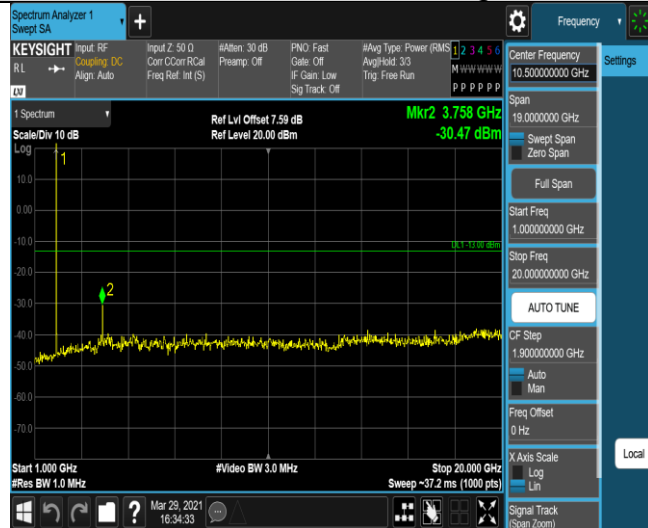
Band2-1.4MHz-QPSK-18607-1RB#0-Range2:1000~20000MHz



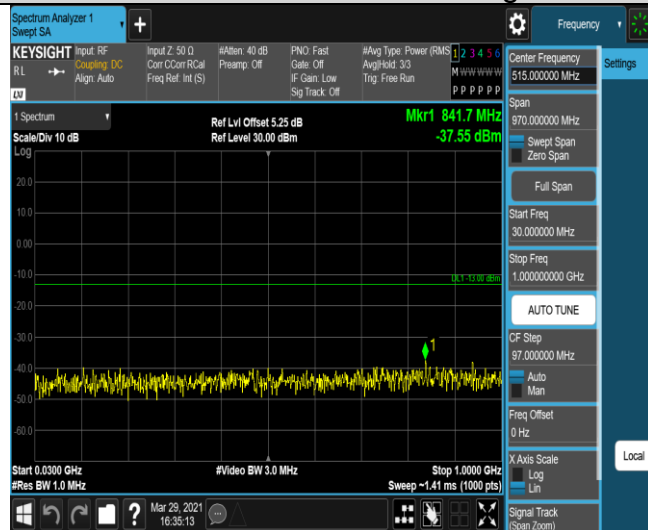
Band2-1.4MHz-QPSK-18900-1RB#0-Range1:30~1000MHz



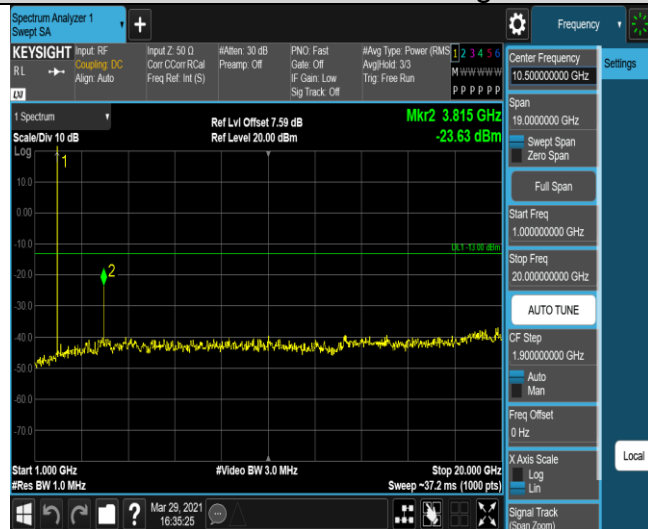
Band2-1.4MHz-QPSK-18900-1RB#0-Range2:1000~20000MHz



Band2-1.4MHz-QPSK-19193-1RB#0-Range1:30~1000MHz

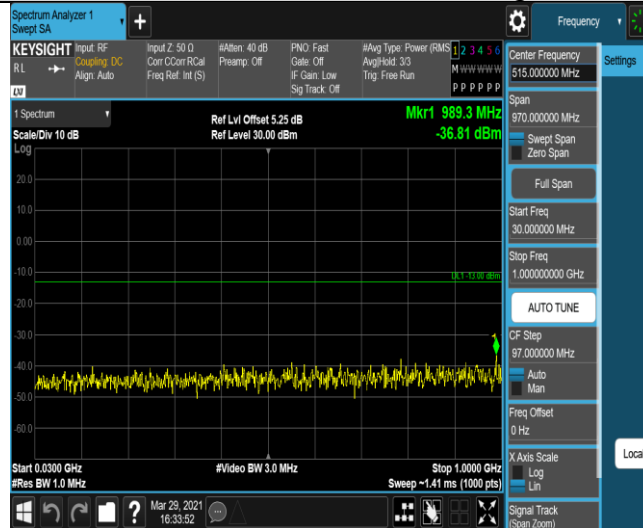


Band2-1.4MHz-QPSK-19193-1RB#0-Range2:1000~20000MHz





Band2-1.4MHz-16QAM-18607-1RB#0-Range1:30~1000MHz



Band2-1.4MHz-16QAM-18607-1RB#0-Range2:1000~20000MHz



Band2-1.4MHz-16QAM-18900-1RB#0-Range1:30~1000MHz

