

## Maximum power spectral density

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Resul(dBm/5 MHz)	Gain (dBi)	E(I)RP (dBm/5MHz)	Limit(dBm/5MHz)	Verdict
Band30	5MHz	QPSK	27685	1RB#0	22.63	-5.7	16.93	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#12	22.61	-5.7	16.91	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#24	22.61	-5.7	16.91	23.98	PASS
Band30	5MHz	QPSK	27685	25RB#0	20.53	-5.7	14.83	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#0	22.24	-5.7	16.54	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#12	22.54	-5.7	16.84	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	22.46	-5.7	16.76	23.98	PASS
Band30	5MHz	QPSK	27710	25RB#0	20.56	-5.7	14.86	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#0	22.78	-5.7	17.08	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#12	22.39	-5.7	16.69	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#24	22.56	-5.7	16.86	23.98	PASS
Band30	5MHz	QPSK	27735	25RB#0	20.36	-5.7	14.66	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#0	20.47	-5.7	14.77	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#12	20.97	-5.7	15.27	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#24	20.57	-5.7	14.87	23.98	PASS
Band30	5MHz	64QAM	27685	25RB#0	18.55	-5.7	12.85	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#0	20.34	-5.7	14.64	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#12	20.52	-5.7	14.82	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#24	20.82	-5.7	15.12	23.98	PASS
Band30	5MHz	64QAM	27710	25RB#0	18.63	-5.7	12.93	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#0	20.64	-5.7	14.94	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#12	20.44	-5.7	14.74	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#24	20.61	-5.7	14.91	23.98	PASS
Band30	5MHz	64QAM	27735	25RB#0	18.46	-5.7	12.76	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#0	21.69	-5.7	15.99	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#12	21.31	-5.7	15.61	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#24	21.57	-5.7	15.87	23.98	PASS
Band30	5MHz	16QAM	27685	25RB#0	19.53	-5.7	13.83	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#0	21.49	-5.7	15.79	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#12	21.5	-5.7	15.8	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#24	21.85	-5.7	16.15	23.98	PASS
Band30	5MHz	16QAM	27710	25RB#0	19.5	-5.7	13.8	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#0	21.54	-5.7	15.84	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#12	21.36	-5.7	15.66	23.98	PASS

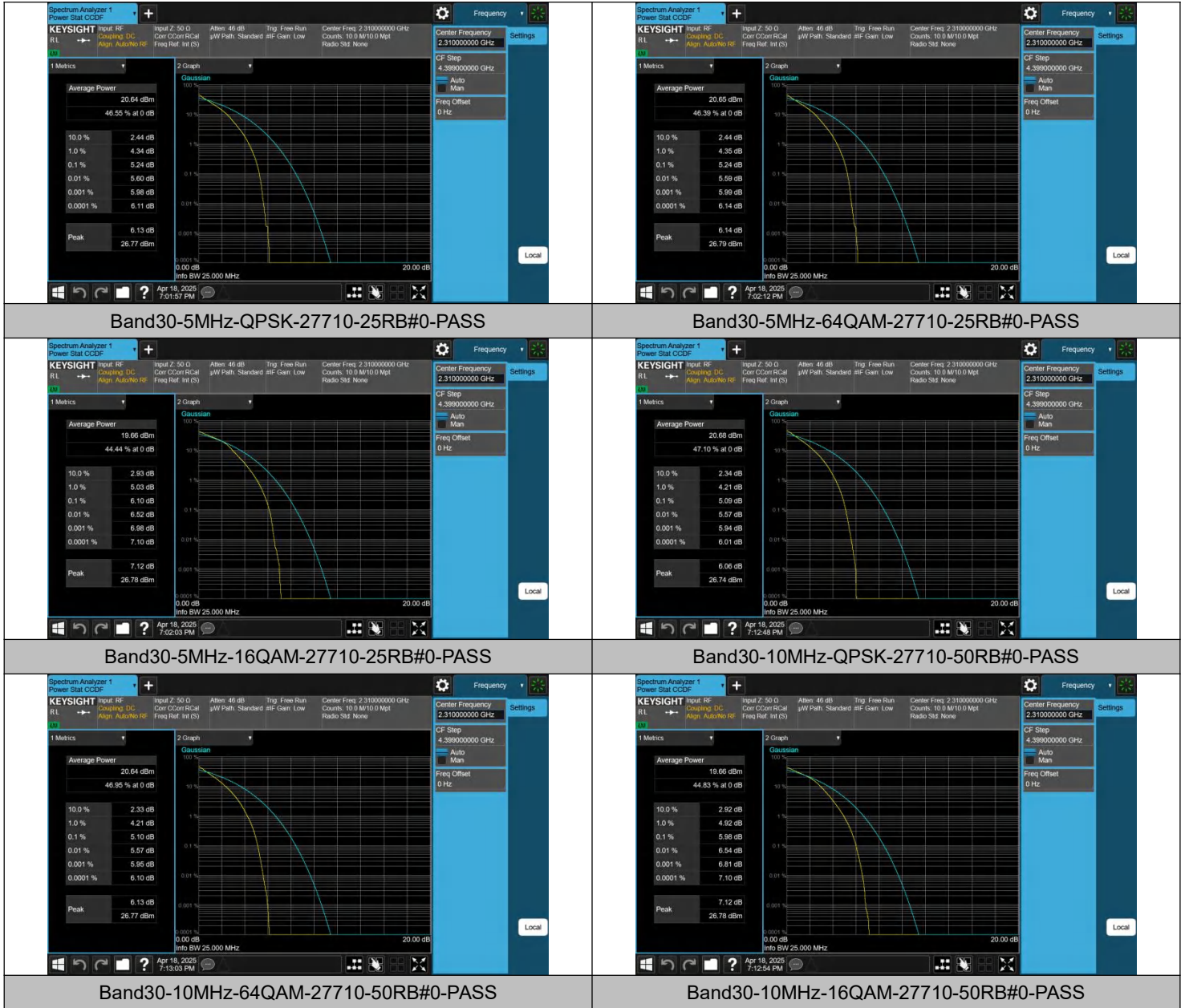
Band30	5MHz	16QAM	27735	1RB#24	21.44	-5.7	15.74	23.98	PASS
Band30	5MHz	16QAM	27735	25RB#0	19.41	-5.7	13.71	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#0	22.47	-5.7	16.77	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#24	22.6	-5.7	16.9	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#49	22.59	-5.7	16.89	23.98	PASS
Band30	10MHz	QPSK	27710	50RB#0	18.98	-5.7	13.28	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#0	20.21	-5.7	14.51	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#24	20.9	-5.7	15.2	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#49	20.94	-5.7	15.24	23.98	PASS
Band30	10MHz	64QAM	27710	50RB#0	17.04	-5.7	11.34	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#0	21.66	-5.7	15.96	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#24	21.62	-5.7	15.92	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#49	21.71	-5.7	16.01	23.98	PASS
Band30	10MHz	16QAM	27710	50RB#0	18.06	-5.7	12.36	23.98	PASS

## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band30	5MHz	QPSK	27710	25RB#0	5.24	13	PASS
Band30	5MHz	64QAM	27710	25RB#0	5.24	13	PASS
Band30	5MHz	16QAM	27710	25RB#0	6.10	13	PASS
Band30	10MHz	QPSK	27710	50RB#0	5.09	13	PASS
Band30	10MHz	64QAM	27710	50RB#0	5.10	13	PASS
Band30	10MHz	16QAM	27710	50RB#0	5.98	13	PASS

Test Graphs

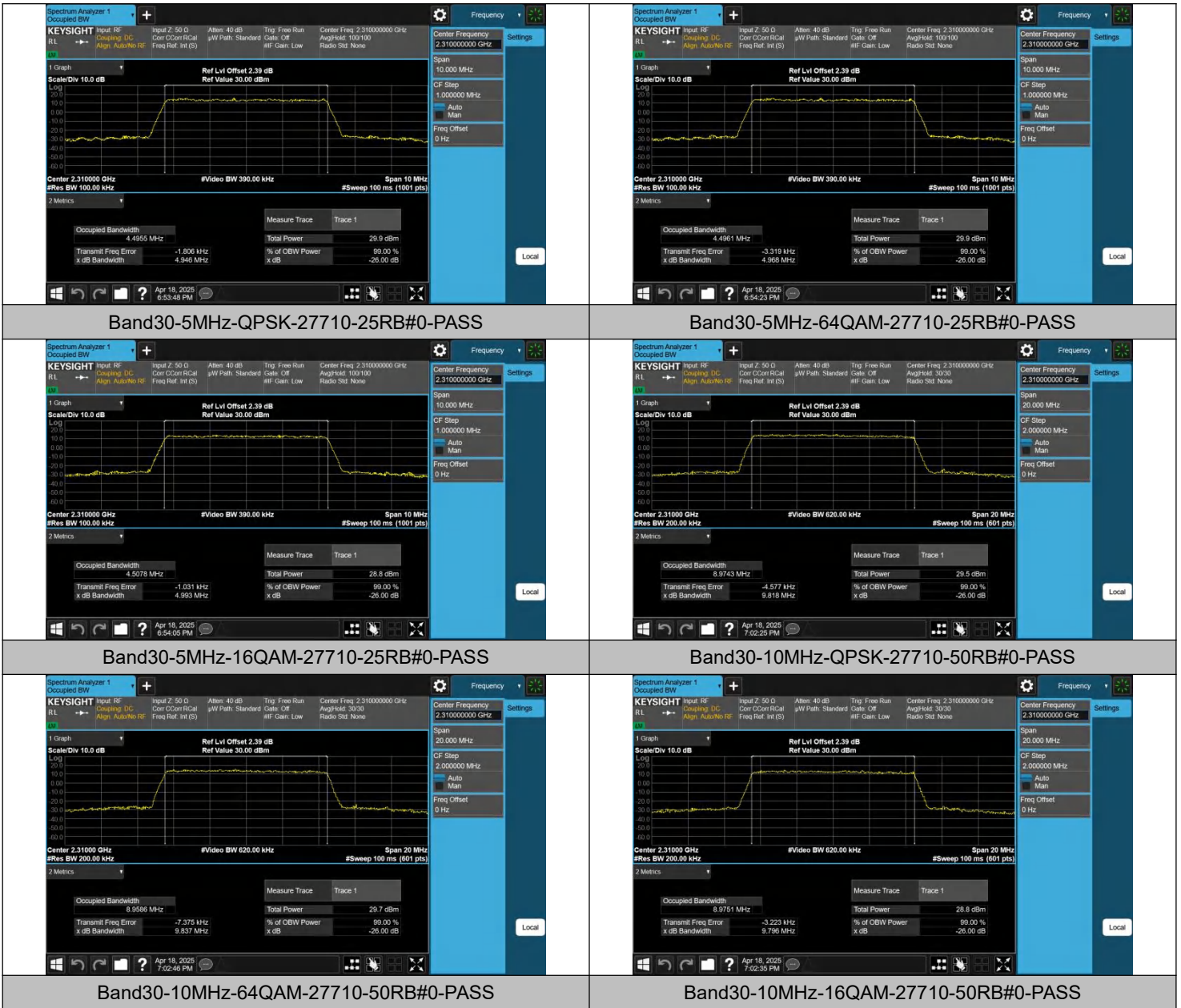


## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band30	5MHz	QPSK	27710	25RB#0	4.4955	4.946	PASS
Band30	5MHz	64QAM	27710	25RB#0	4.4961	4.968	PASS
Band30	5MHz	16QAM	27710	25RB#0	4.5078	4.993	PASS
Band30	10MHz	QPSK	27710	50RB#0	8.9743	9.818	PASS
Band30	10MHz	64QAM	27710	50RB#0	8.9586	9.837	PASS
Band30	10MHz	16QAM	27710	50RB#0	8.9751	9.796	PASS

Test Graphs





# Band Edge

## Test Graphs

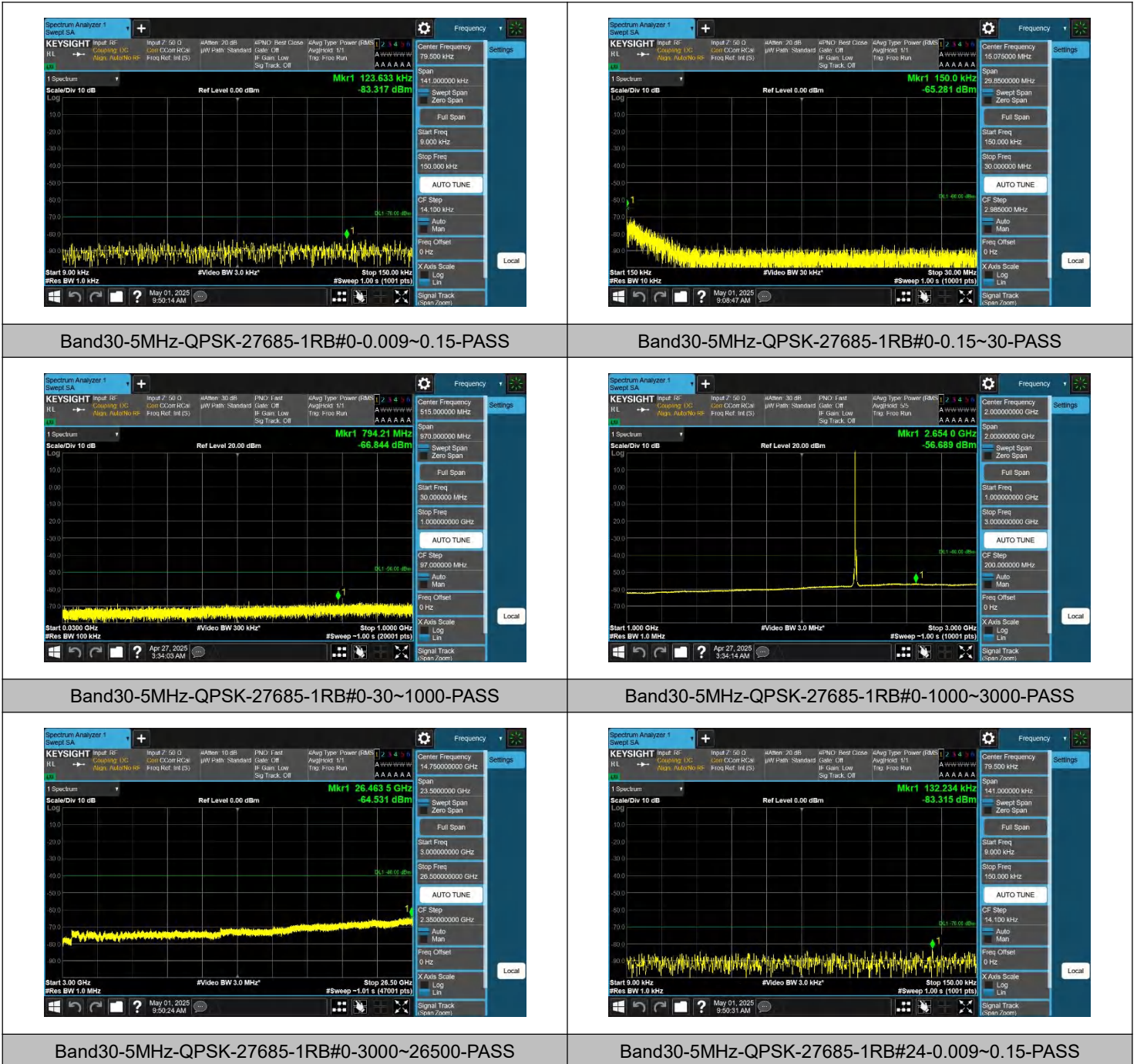


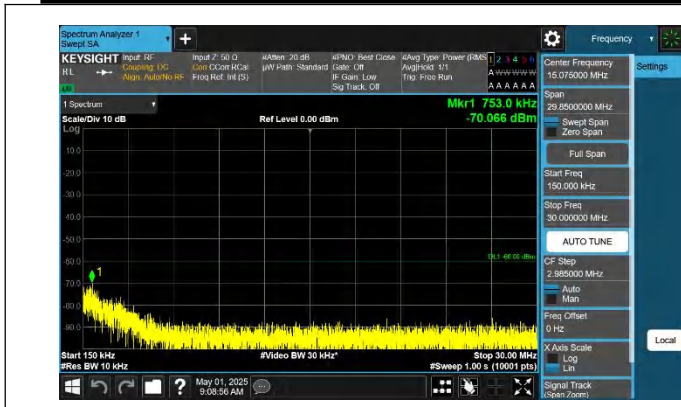
Band30-10MHz-QPSK-27710-1RB#0-PASS	Band30-10MHz-QPSK-27710-1RB#49-PASS																																																																																																																																								
 <p><b>Measure Trace</b></p> <table border="1"> <thead> <tr> <th>Spur</th> <th>Range</th> <th>Start Freq</th> <th>Stop Freq</th> <th>RBW</th> <th>Frequency</th> <th>Amplitude</th> <th>ULimit</th> </tr> </thead> <tbody> <tr><td>1</td><td>1</td><td>2.2850 GHz</td><td>2.2850 GHz</td><td>1.000 MHz</td><td>2.287580000 GHz</td><td>-53.93 dBm</td><td>-15.33 dB</td></tr> <tr><td>2</td><td>2</td><td>2.2880 GHz</td><td>2.2920 GHz</td><td>1.000 MHz</td><td>2.291960000 GHz</td><td>-50.24 dBm</td><td>-13.24 dB</td></tr> <tr><td>3</td><td>3</td><td>2.2920 GHz</td><td>2.2960 GHz</td><td>1.000 MHz</td><td>2.295870000 GHz</td><td>-46.70 dBm</td><td>-15.70 dB</td></tr> <tr><td>4</td><td>4</td><td>2.2960 GHz</td><td>2.3000 GHz</td><td>1.000 MHz</td><td>2.300000000 GHz</td><td>-38.95 dBm</td><td>-13.95 dB</td></tr> <tr><td>5</td><td>5</td><td>2.3000 GHz</td><td>2.3040 GHz</td><td>1.000 MHz</td><td>2.303804000 GHz</td><td>-36.23 dBm</td><td>-23.23 dB</td></tr> <tr><td>6</td><td>6</td><td>2.3040 GHz</td><td>2.3050 GHz</td><td>100.0 kHz</td><td>2.304880000 GHz</td><td>-41.19 dBm</td><td>-26.19 dB</td></tr> <tr><td>7</td><td>7</td><td>2.3050 GHz</td><td>2.3100 GHz</td><td>100.0 kHz</td><td>2.308140000 GHz</td><td>-0.753 dBm</td><td>-50.75 dB</td></tr> <tr><td>8</td><td>8</td><td>2.3150 GHz</td><td>2.3160 GHz</td><td>100.0 kHz</td><td>2.315045000 GHz</td><td>-40.33 dBm</td><td>-27.33 dB</td></tr> <tr><td>9</td><td>9</td><td>2.3160 GHz</td><td>2.3200 GHz</td><td>1.000 MHz</td><td>2.316000000 GHz</td><td>-33.51 dBm</td><td>-30.51 dB</td></tr> <tr><td>10</td><td>10</td><td>2.3200 GHz</td><td>2.3240 GHz</td><td>1.000 MHz</td><td>2.320048000 GHz</td><td>-41.08 dBm</td><td>-16.08 dB</td></tr> <tr><td>11</td><td>11</td><td>2.3240 GHz</td><td>2.3280 GHz</td><td>1.000 MHz</td><td>2.324040000 GHz</td><td>-47.73 dBm</td><td>-16.73 dB</td></tr> <tr><td>12</td><td>12</td><td>2.3280 GHz</td><td>2.3370 GHz</td><td>1.000 MHz</td><td>2.336020000 GHz</td><td>-50.22 dBm</td><td>-15.22 dB</td></tr> <tr><td>13</td><td>13</td><td>2.3370 GHz</td><td>2.3410 GHz</td><td>1.000 MHz</td><td>2.340432000 GHz</td><td>-61.31 dBm</td><td>-30.31 dB</td></tr> <tr><td>14</td><td>14</td><td>2.3410 GHz</td><td>2.3450 GHz</td><td>1.000 MHz</td><td>2.342172000 GHz</td><td>-61.32 dBm</td><td>-36.32 dB</td></tr> <tr><td>15</td><td>15</td><td>2.3450 GHz</td><td>2.3650 GHz</td><td>1.000 MHz</td><td>2.354020000 GHz</td><td>-61.18 dBm</td><td>-48.18 dB</td></tr> <tr><td>16</td><td>16</td><td>2.3650 GHz</td><td>2.3680 GHz</td><td>1.000 MHz</td><td>2.365663000 GHz</td><td>-61.33 dBm</td><td>-21.33 dB</td></tr> </tbody> </table>	Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ULimit	1	1	2.2850 GHz	2.2850 GHz	1.000 MHz	2.287580000 GHz	-53.93 dBm	-15.33 dB	2	2	2.2880 GHz	2.2920 GHz	1.000 MHz	2.291960000 GHz	-50.24 dBm	-13.24 dB	3	3	2.2920 GHz	2.2960 GHz	1.000 MHz	2.295870000 GHz	-46.70 dBm	-15.70 dB	4	4	2.2960 GHz	2.3000 GHz	1.000 MHz	2.300000000 GHz	-38.95 dBm	-13.95 dB	5	5	2.3000 GHz	2.3040 GHz	1.000 MHz	2.303804000 GHz	-36.23 dBm	-23.23 dB	6	6	2.3040 GHz	2.3050 GHz	100.0 kHz	2.304880000 GHz	-41.19 dBm	-26.19 dB	7	7	2.3050 GHz	2.3100 GHz	100.0 kHz	2.308140000 GHz	-0.753 dBm	-50.75 dB	8	8	2.3150 GHz	2.3160 GHz	100.0 kHz	2.315045000 GHz	-40.33 dBm	-27.33 dB	9	9	2.3160 GHz	2.3200 GHz	1.000 MHz	2.316000000 GHz	-33.51 dBm	-30.51 dB	10	10	2.3200 GHz	2.3240 GHz	1.000 MHz	2.320048000 GHz	-41.08 dBm	-16.08 dB	11	11	2.3240 GHz	2.3280 GHz	1.000 MHz	2.324040000 GHz	-47.73 dBm	-16.73 dB	12	12	2.3280 GHz	2.3370 GHz	1.000 MHz	2.336020000 GHz	-50.22 dBm	-15.22 dB	13	13	2.3370 GHz	2.3410 GHz	1.000 MHz	2.340432000 GHz	-61.31 dBm	-30.31 dB	14	14	2.3410 GHz	2.3450 GHz	1.000 MHz	2.342172000 GHz	-61.32 dBm	-36.32 dB	15	15	2.3450 GHz	2.3650 GHz	1.000 MHz	2.354020000 GHz	-61.18 dBm	-48.18 dB	16	16	2.3650 GHz	2.3680 GHz	1.000 MHz	2.365663000 GHz	-61.33 dBm	-21.33 dB	
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ULimit																																																																																																																																		
1	1	2.2850 GHz	2.2850 GHz	1.000 MHz	2.287580000 GHz	-53.93 dBm	-15.33 dB																																																																																																																																		
2	2	2.2880 GHz	2.2920 GHz	1.000 MHz	2.291960000 GHz	-50.24 dBm	-13.24 dB																																																																																																																																		
3	3	2.2920 GHz	2.2960 GHz	1.000 MHz	2.295870000 GHz	-46.70 dBm	-15.70 dB																																																																																																																																		
4	4	2.2960 GHz	2.3000 GHz	1.000 MHz	2.300000000 GHz	-38.95 dBm	-13.95 dB																																																																																																																																		
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16	16	2.3650 GHz	2.3680 GHz	1.000 MHz	2.365663000 GHz	-61.33 dBm	-21.33 dB																																																																																																																																		
Band30-10MHz-QPSK-27710-50RB#0-PASS																																																																																																																																									



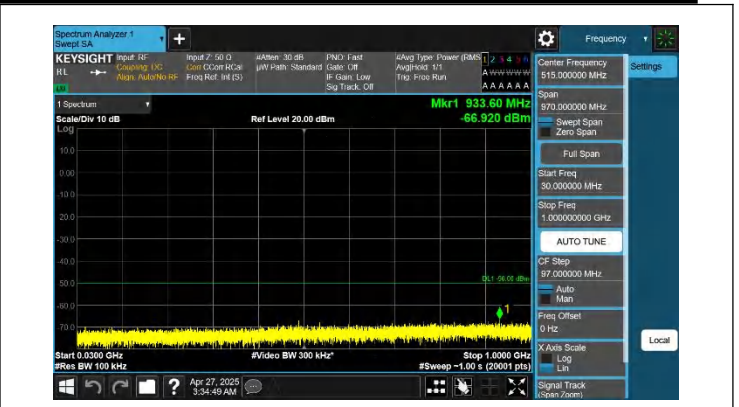
# Conducted Spurious Emission

## Test Graphs





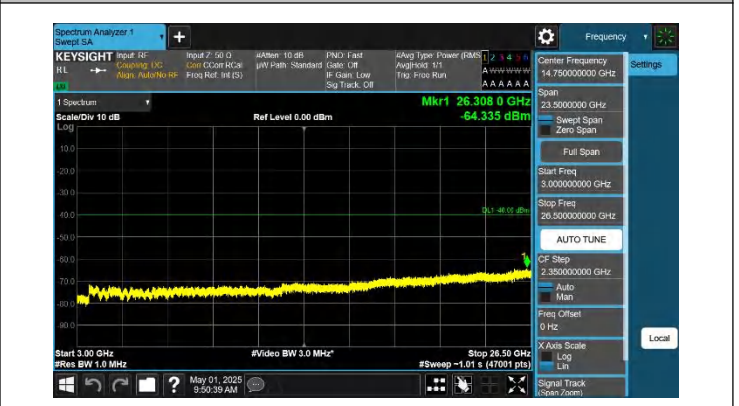
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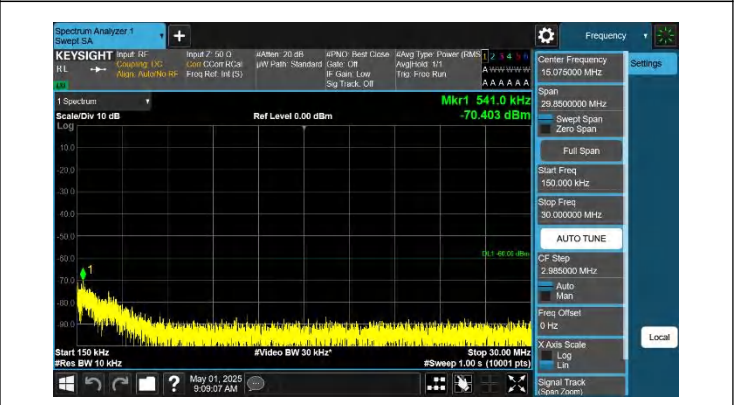
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Band30-5MHz-QPSK-27685-1RB#24-3000~26500-PASS



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Band30-5MHz-QPSK-27710-1RB#0-0.15~30-PASS





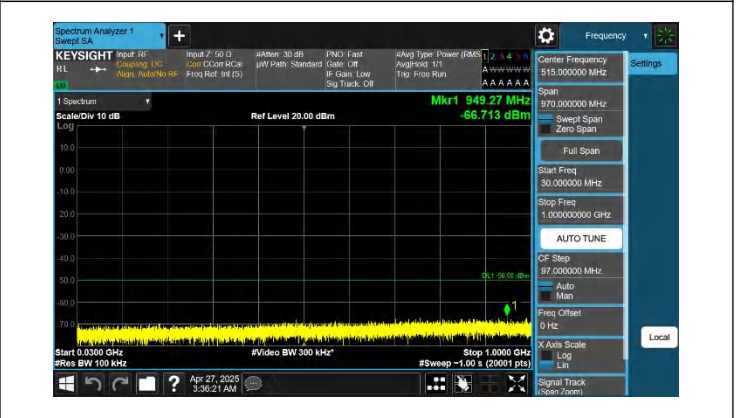
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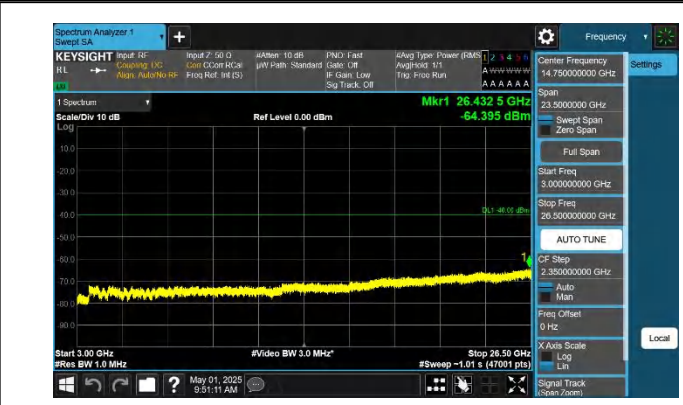


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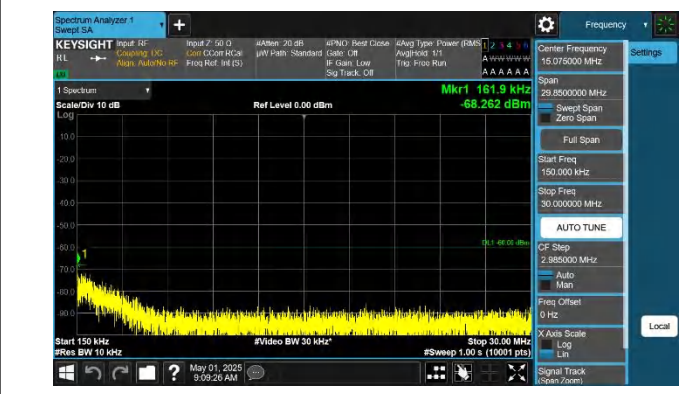
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Band30-5MHz-QPSK-27735-1RB#0-0.15~30-PASS



Band30-5MHz-QPSK-27735-1RB#0-30~1000-PASS



Band30-5MHz-QPSK-27735-1RB#0-1000~3000-PASS

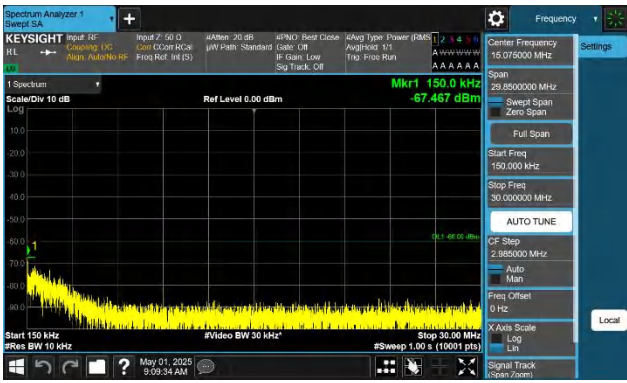




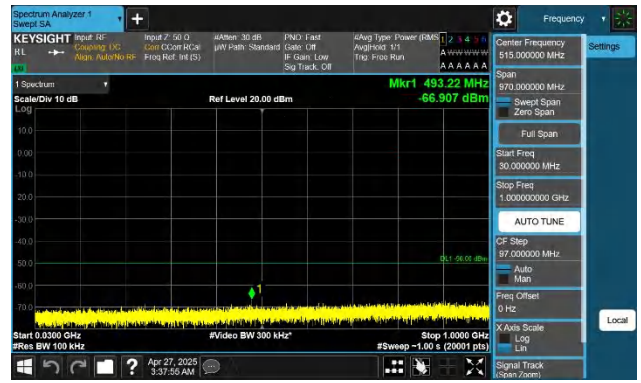
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Band30-5MHz-QPSK-27735-1RB#24-0.009~0.15-PASS



Band30-5MHz-QPSK-27735-1RB#24-0.15~30-PASS



Band30-5MHz-QPSK-27735-1RB#24-30~1000-PASS



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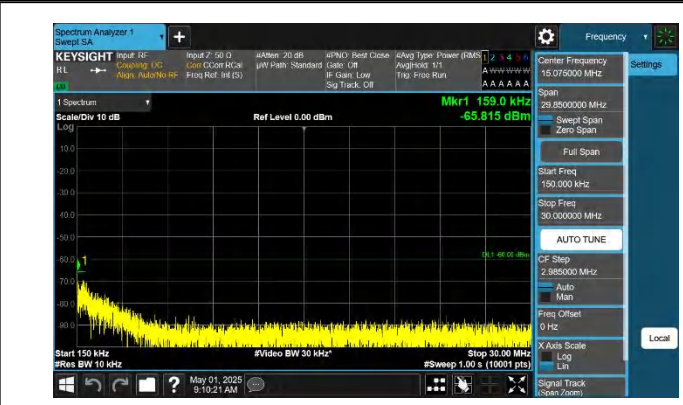


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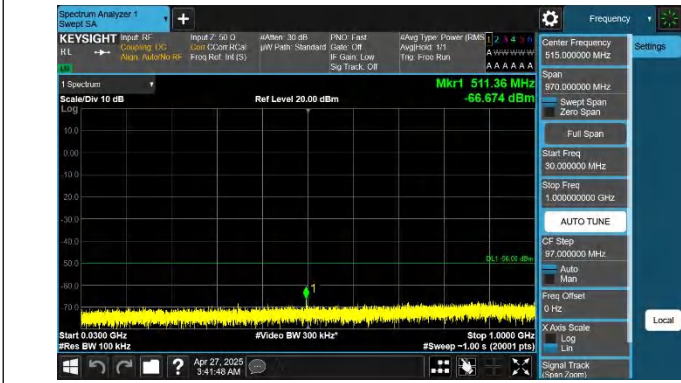




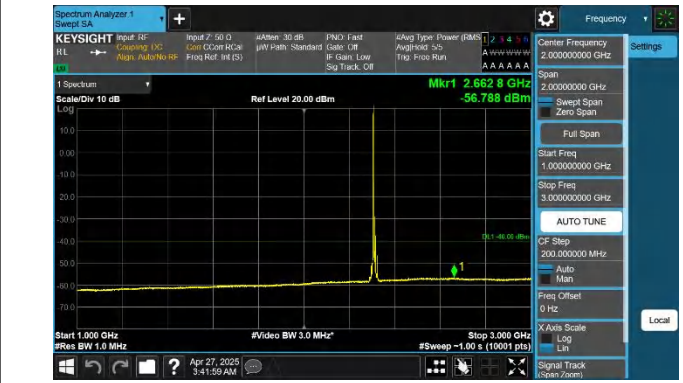
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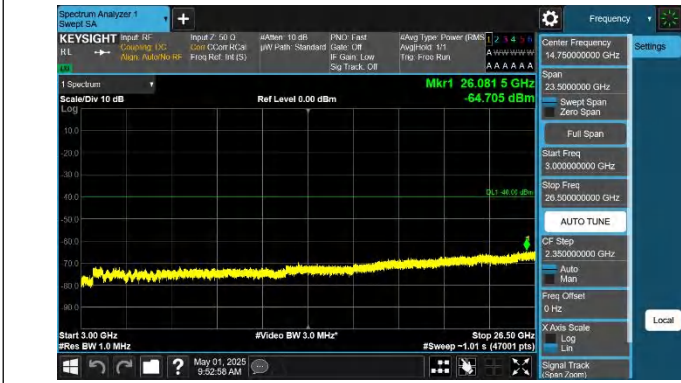
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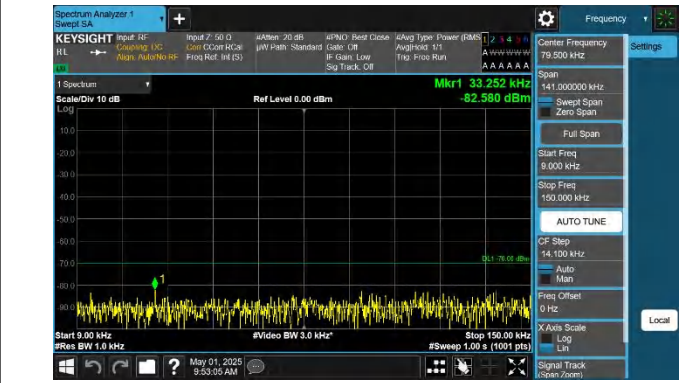
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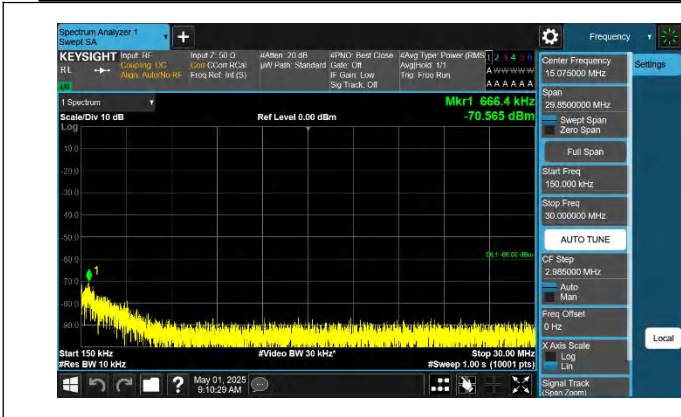
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Band30-10MHz-QPSK-27710-1RB#0-3000~26500-PASS



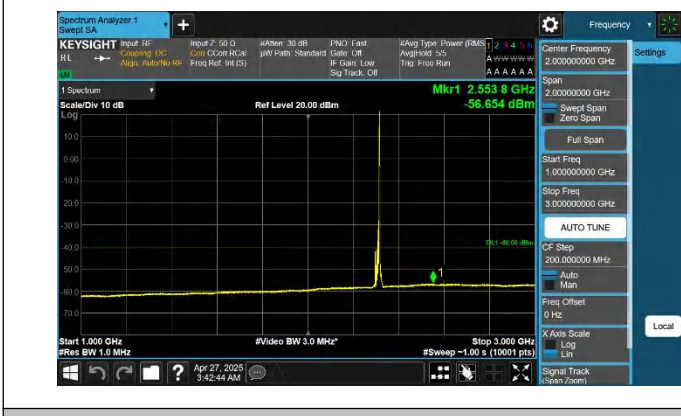
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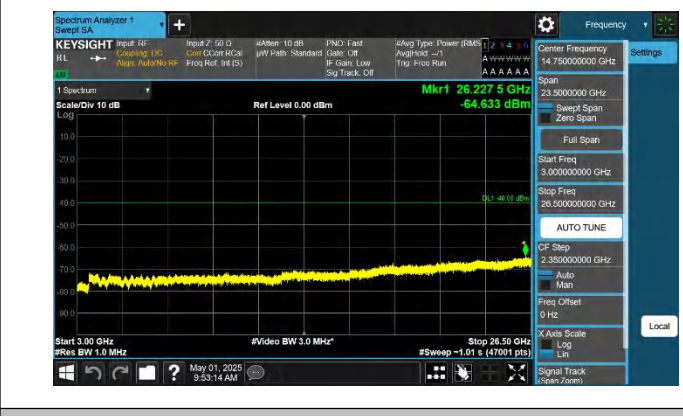
Band30-10MHz-QPSK-27710-1RB#49-0.15~30-PASS



Band30-10MHz-QPSK-27710-1RB#49-30~1000-PASS



Band30-10MHz-QPSK-27710-1RB#49-1000~3000-PASS



Band30-10MHz-QPSK-27710-1RB#49-3000~26500-PASS

## Frequency Stability

### Test Result

Voltage													
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
Band30	10MHz	QPSK	27710	50RB#0	VN	NT	-7860.00	-3.402597	±NA	2305.52814	2314.45614	2305-2315	PASS
Band30	10MHz	QPSK	27710	50RB#0	VL	NT	-9830.00	-4.255411	±NA	2305.52317	2314.45717	2305-2315	PASS
Band30	10MHz	QPSK	27710	50RB#0	VH	NT	-8910.00	-3.857143	±NA	2305.52444	2314.45774	2305-2315	PASS

Temperature													
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
Band30	10MHz	QPSK	27710	50RB#0	NV	-30	-8000.00	-3.463203	±NA	2305.524	2314.46	2305-2315	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	-20	-11460.00	-4.961039	±NA	2305.52014	2314.45694	2305-2315	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	-10	-10820.00	-4.683983	±NA	2305.52618	2314.45218	2305-2315	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	0	-7680.00	-3.324675	±NA	2305.52727	2314.45737	2305-2315	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	10	-10610.00	-4.593074	±NA	2305.52174	2314.45704	2305-2315	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	20	-8990.00	-3.891775	±NA	2305.52416	2314.45786	2305-2315	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	30	-10370.00	-4.489177	±NA	2305.52433	2314.45493	2305-2315	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	40	-9170.00	-3.969697	±NA	2305.52228	2314.45938	2305-2315	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	50	-8270.00	-3.580087	±NA	2305.52483	2314.45863	2305-2315	PASS

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