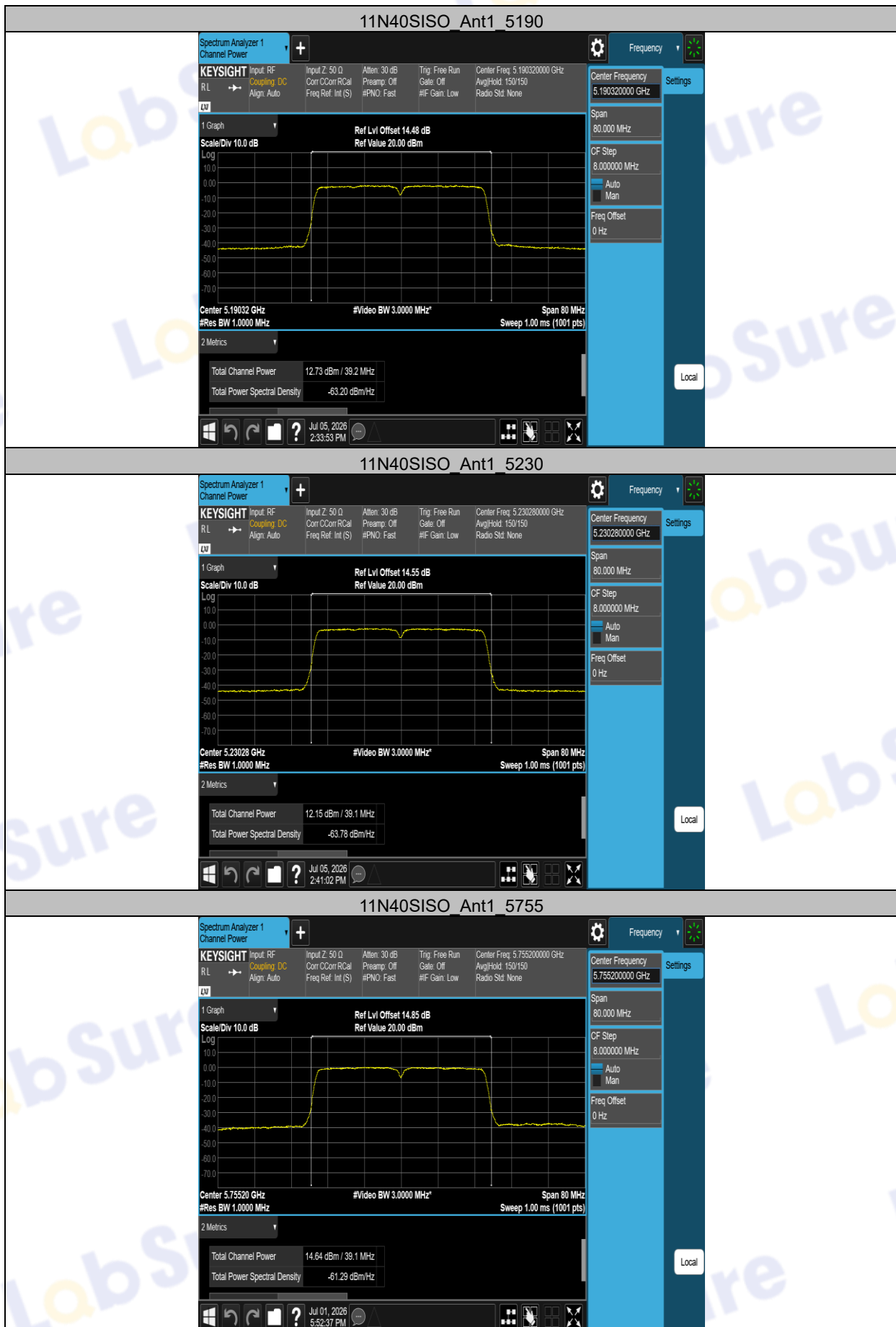
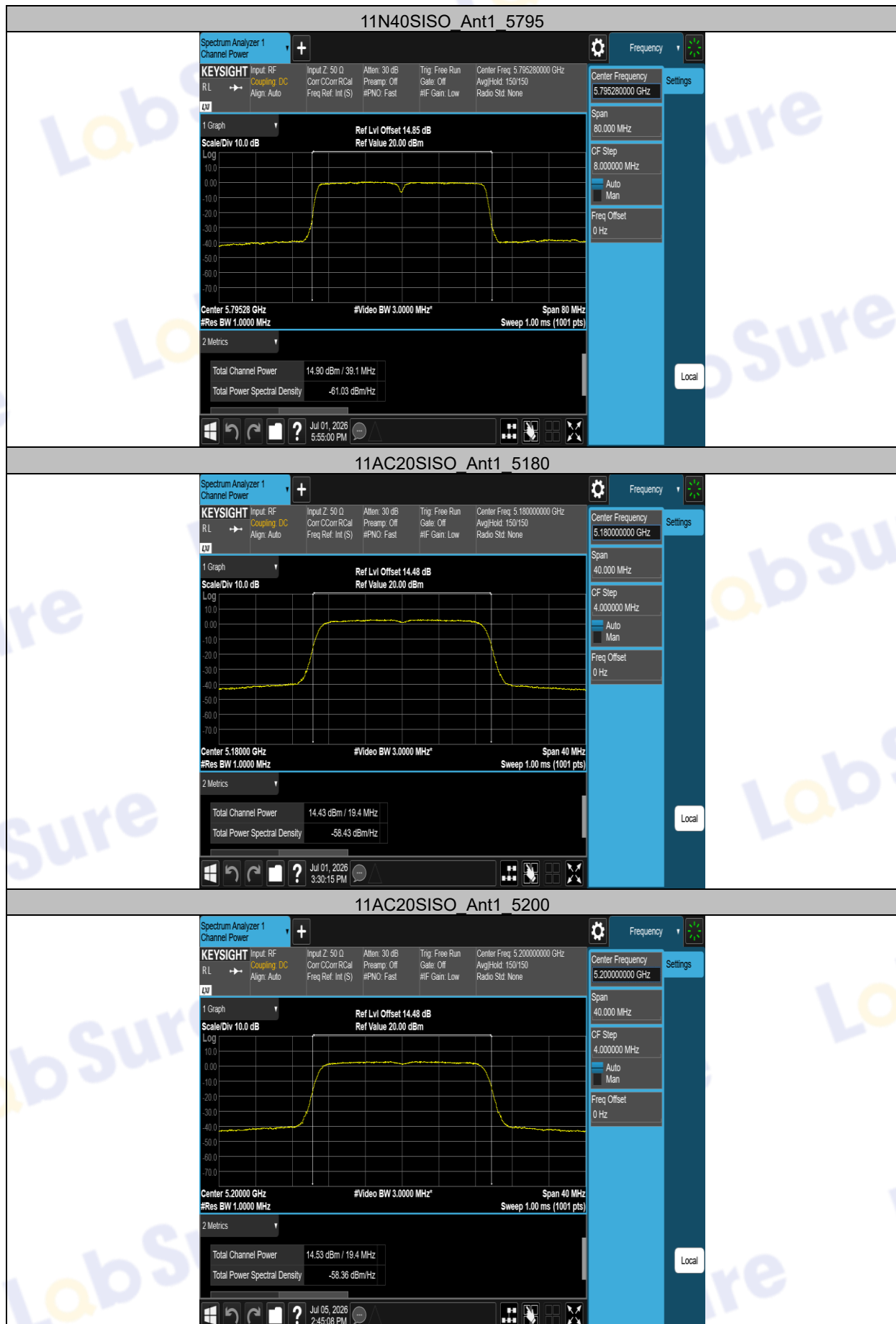
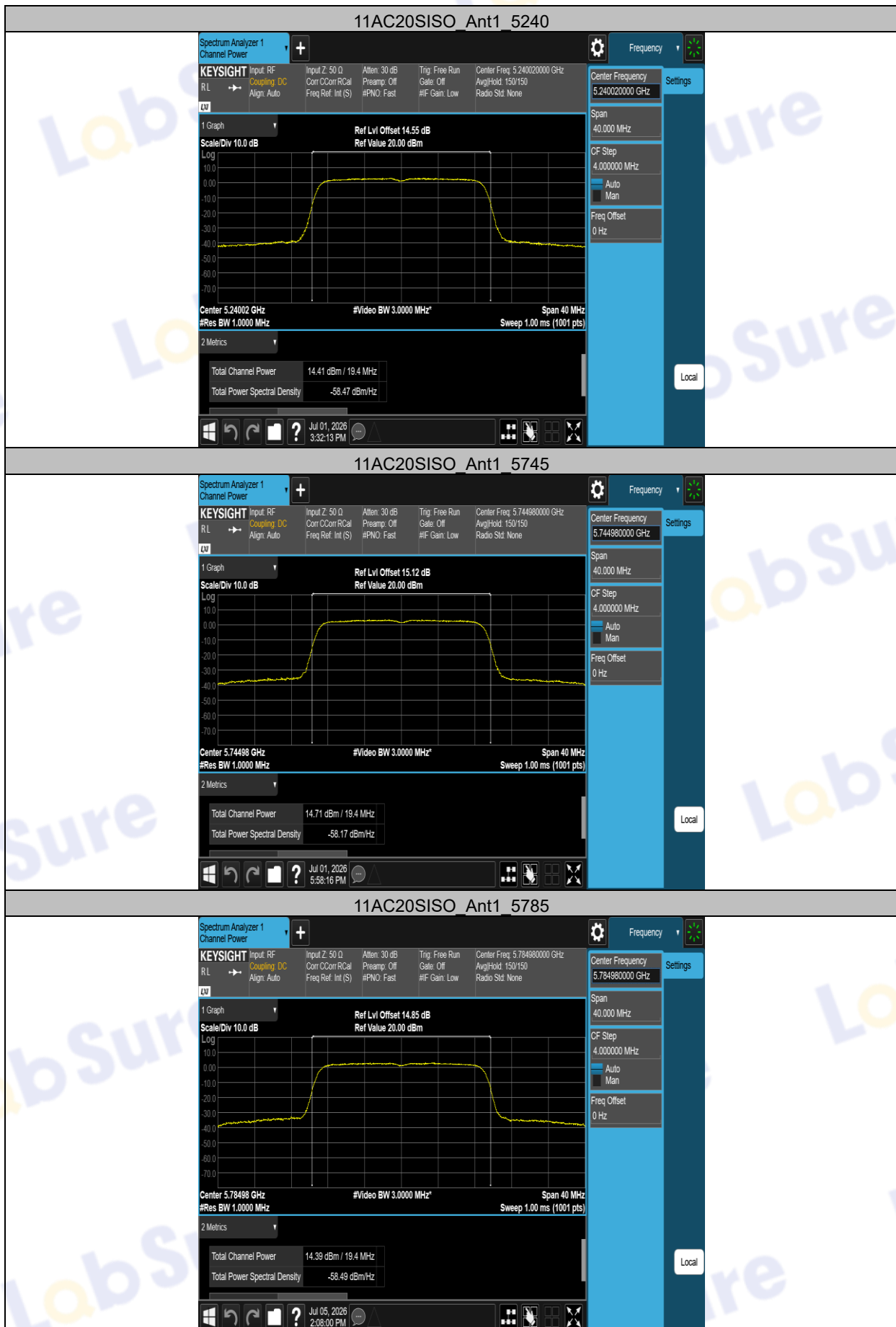
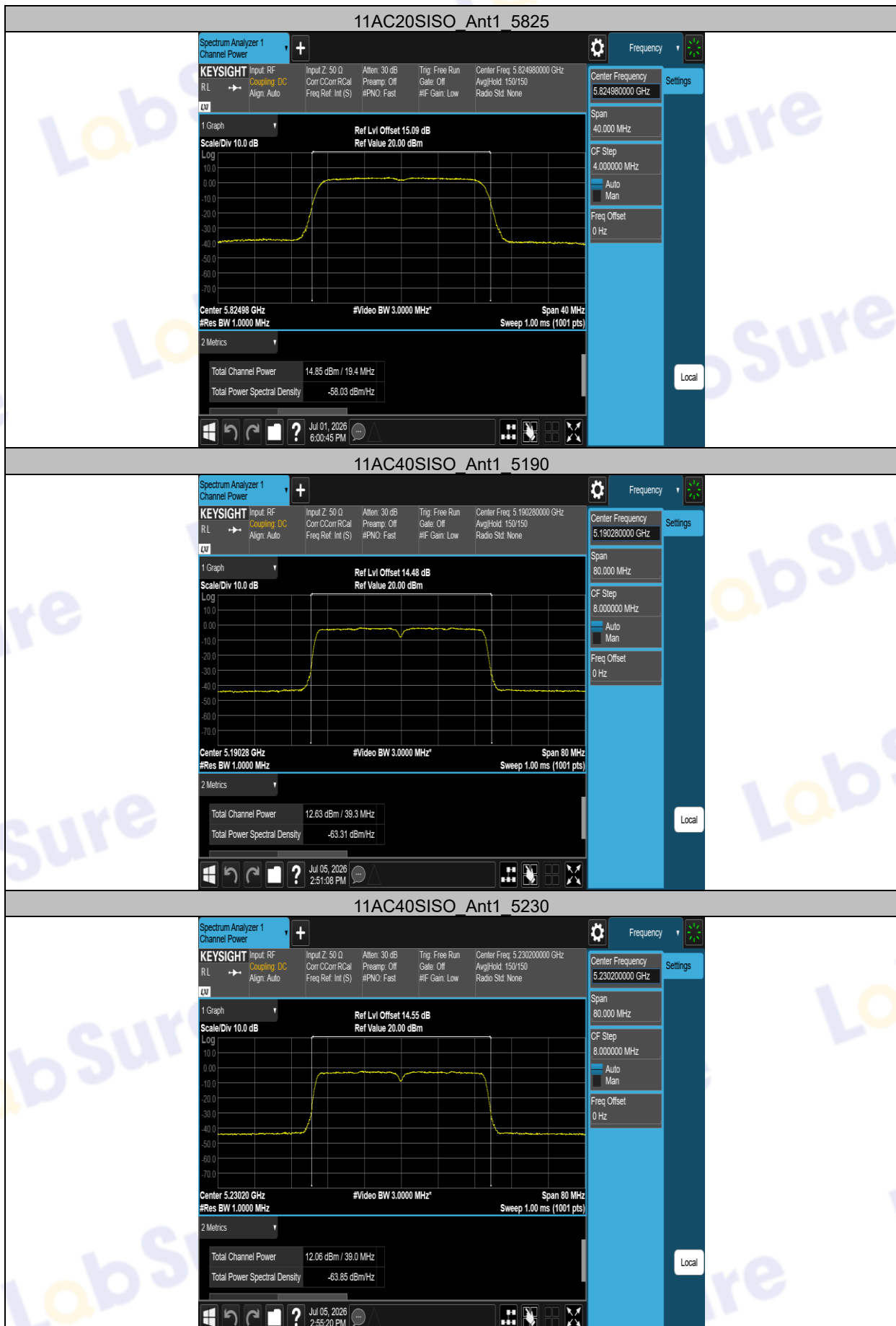
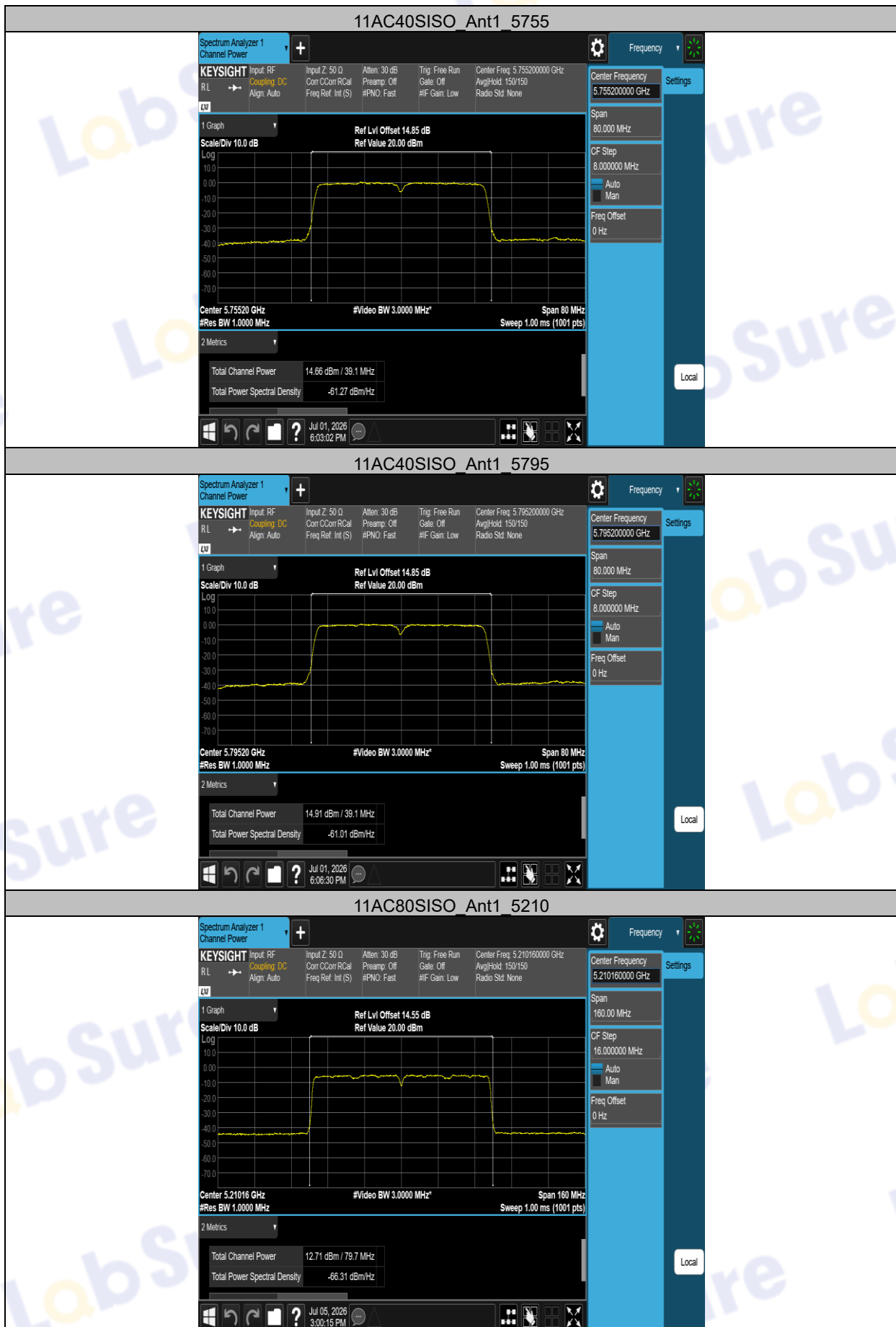


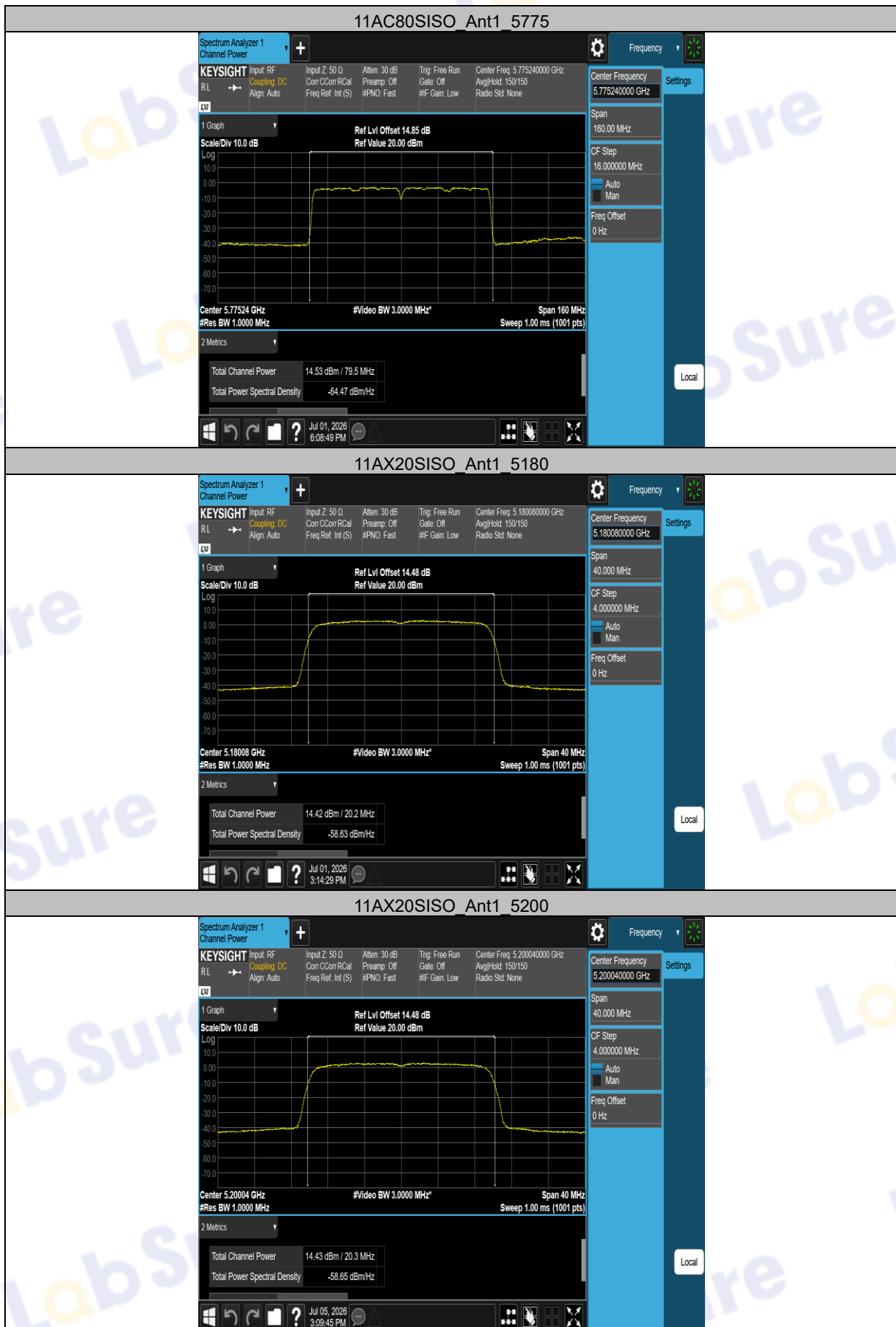


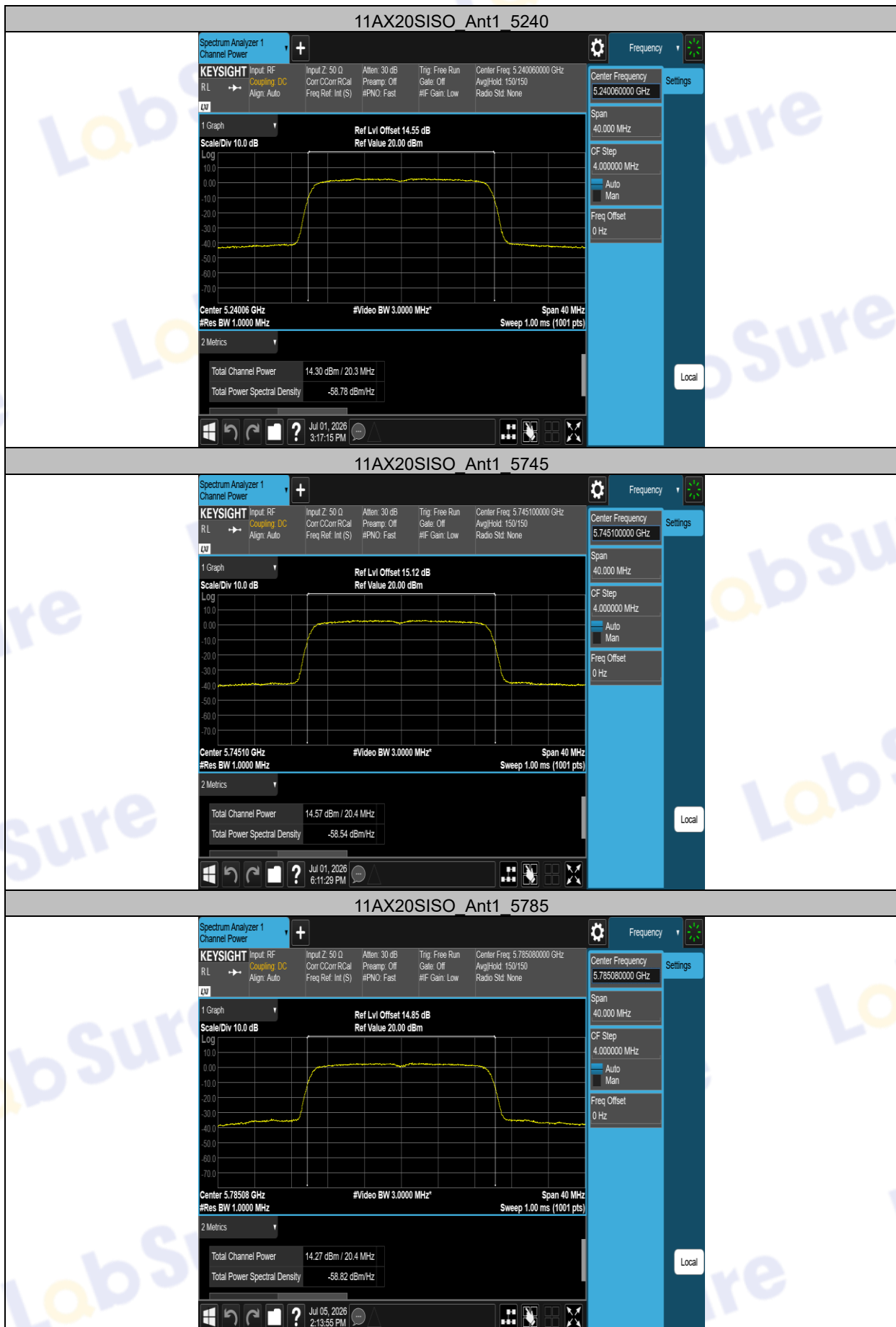


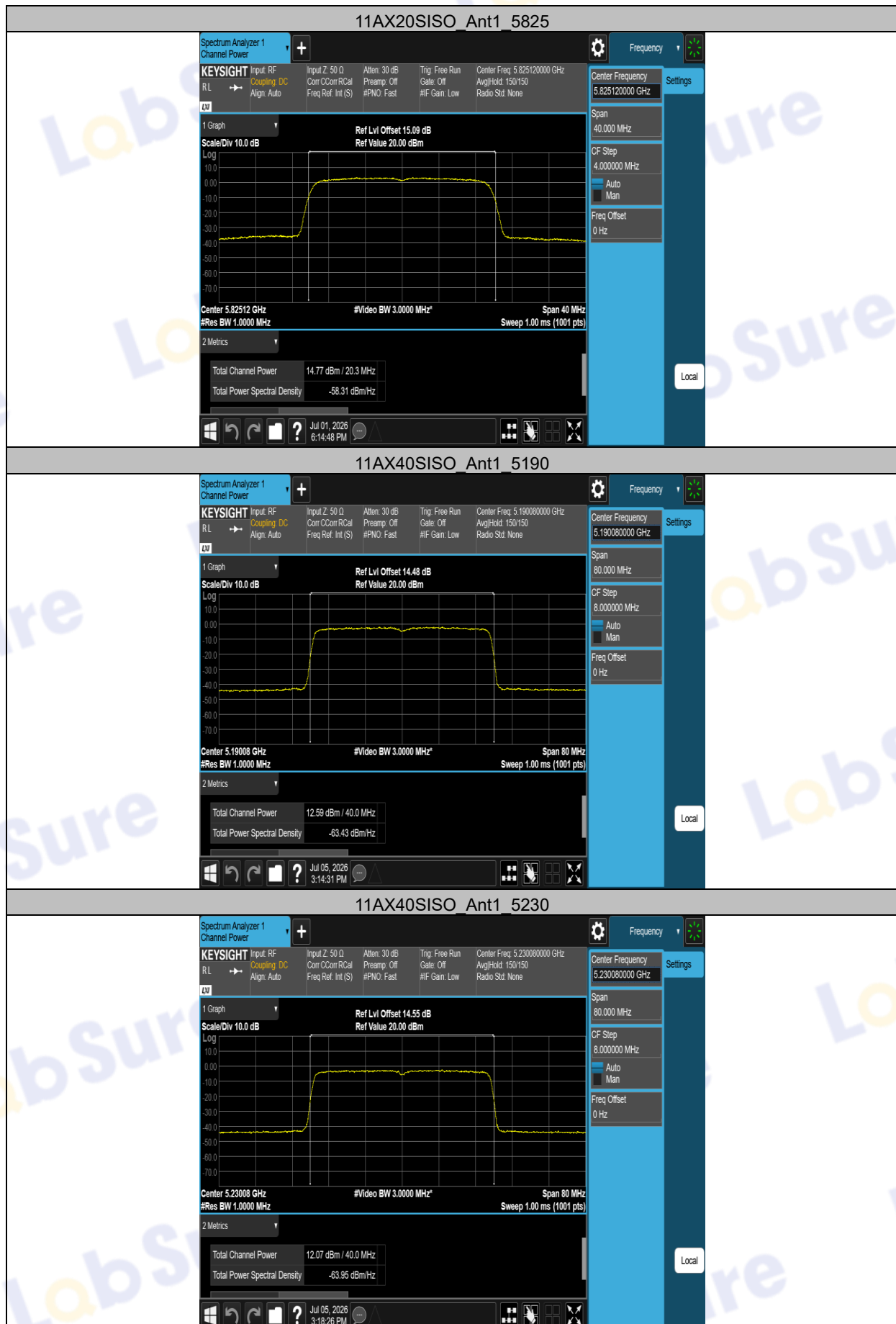


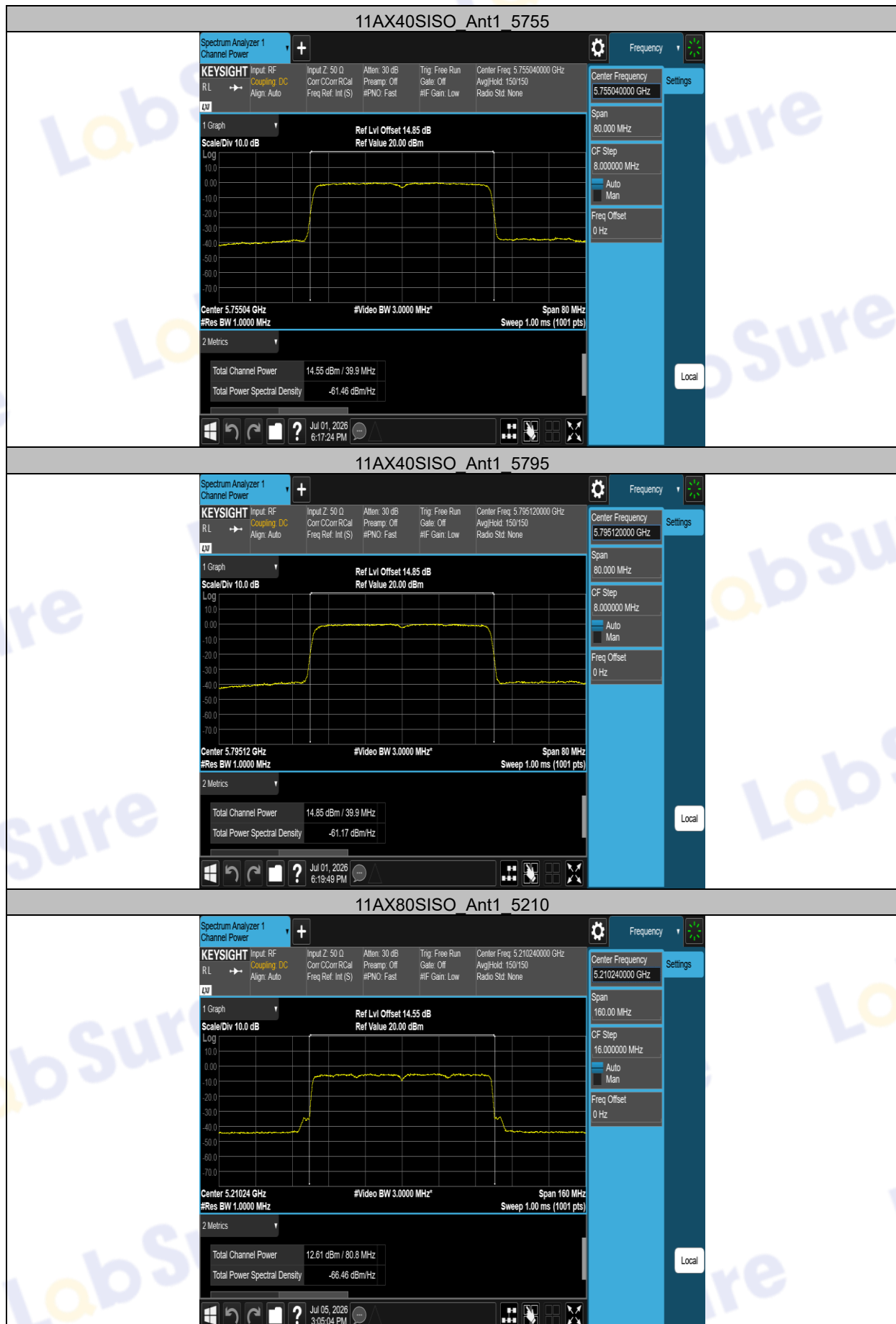


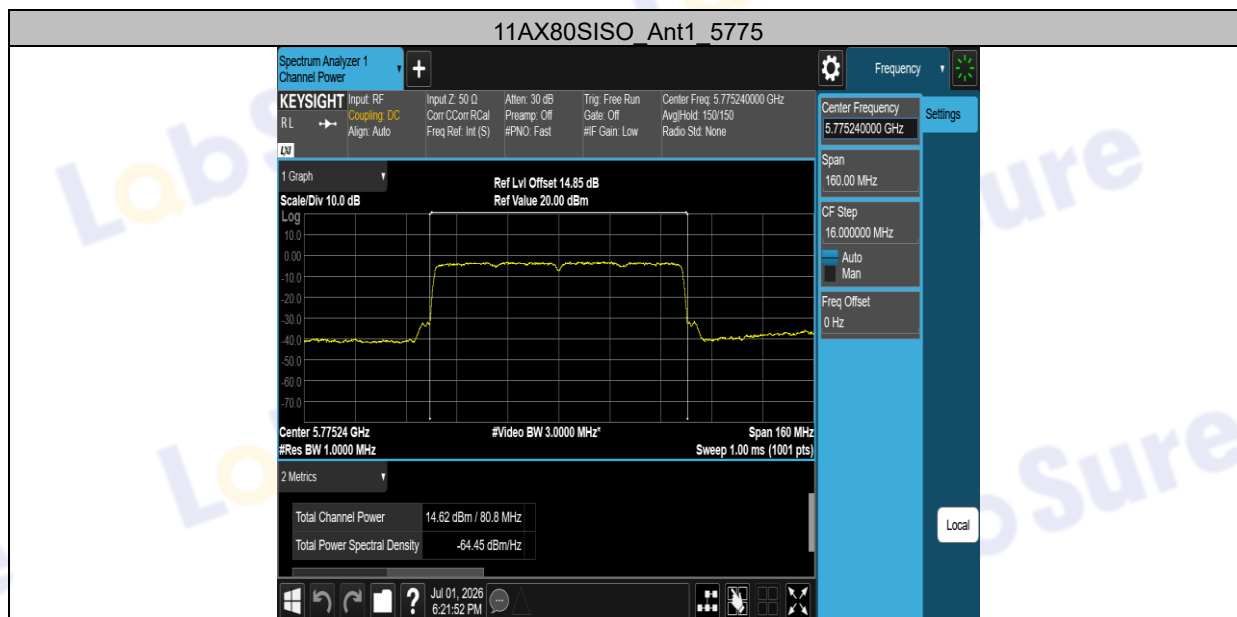






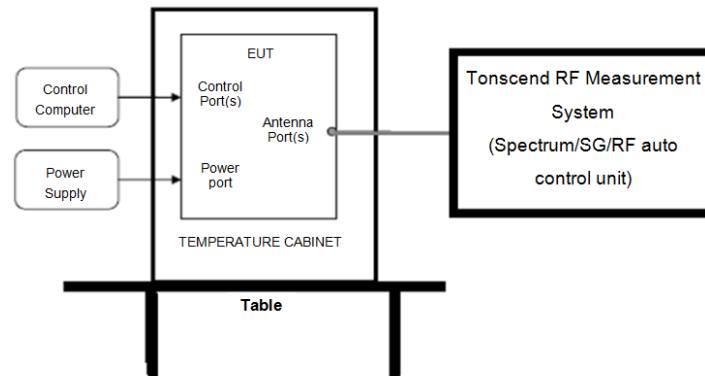






6. Power Spectral Density

6.1. Block diagram of test setup



6.2. Limits

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	For FCC: Other than Mobile and portable:17 dBm/MHz Mobile and portable client devices:11 dBm/MHz	5150-5250
	11 dBm/MHz	5250-5350
	11 dBm/MHz	For FCC: 5470 - 5725
	30 dBm/500 kHz	5725-5850
Note: For 802.11n and 802.11ac, the EUT incorporates a MIMO function. The Antenna directional gain is 9.23 dBi. The Power Spectral Density limit is the above limits-(9.23-6)		

6.3. Test procedure

The transmitter output was connected to a spectrum analyzer. Power density was measured by spectrum analyzer with 1MHz RBW and 3MHz VBW.

Connect the UUT to the spectrum analyser and use the following settings:

5150 MHz~5250 MHz, 5250 MHz~5350 MHz, 5470 MHz~5725 MHz

Center Frequency	The center frequency of the channel under test
Detector	RMS
RBW	1MHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Average
Sweep time	Auto

5725 MHz-5850 MHz

Center Frequency	The center frequency of the channel under test
Detector	RMS
RBW	500 kHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Average
Sweep time	Auto

6.4. Test Environment

Temperature	24.6°C	Relative Humidity	54.1%
Atmosphere Pressure	100.9kPa	Test Voltage	DC 5V

6.5. Test result _Test Data**FCC Power Spectral Density**

Test Mode	Freq (MHz)	Raw Data [dBm/MHz]	DC Factor	RBW Factor	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	5180	3.41	0.13	0.00	3.54	≤11.00	PASS
	5200	3.58	0.13	0.00	3.71	≤11.00	PASS
	5240	3.32	0.13	0.00	3.45	≤11.00	PASS
	5745	-1.39	0.13	2.22	0.96	≤30.00	PASS
	5785	-1.44	0.13	2.22	0.91	≤30.00	PASS
	5825	-1.21	0.13	2.22	1.14	≤30.00	PASS
11N20SISO	5180	3.13	0.13	0.00	3.26	≤11.00	PASS
	5200	3.34	0.13	0.00	3.47	≤11.00	PASS
	5240	2.8	0.13	0.00	2.93	≤11.00	PASS
	5745	-1.96	0.13	2.22	0.39	≤30.00	PASS
	5785	-1.96	0.13	2.22	0.39	≤30.00	PASS
	5825	-1.59	0.13	2.22	0.76	≤30.00	PASS
11N40SISO	5190	-1.54	0.23	0.00	-1.31	≤11.00	PASS
	5230	-1.99	0.23	0.00	-1.76	≤11.00	PASS
	5755	-4.37	0.25	2.22	-1.90	≤30.00	PASS
	5795	-4.07	0.23	2.22	-1.62	≤30.00	PASS
11AC20SISO	5180	2.89	0.13	0.00	3.02	≤11.00	PASS
	5200	3.56	0.13	0.00	3.69	≤11.00	PASS
	5240	2.82	0.13	0.00	2.95	≤11.00	PASS
	5745	-1.26	0.13	2.22	1.09	≤30.00	PASS
	5785	-1.72	0.13	2.22	0.63	≤30.00	PASS
	5825	-1.34	0.13	2.22	1.01	≤30.00	PASS
11AC40SISO	5190	-1.76	0.23	0.00	-1.53	≤11.00	PASS
	5230	-1.58	0.23	0.00	-1.35	≤11.00	PASS
	5755	-4.54	0.23	2.22	-2.09	≤30.00	PASS
	5795	-4.09	0.23	2.22	-1.64	≤30.00	PASS
11AC80SISO	5210	-4.65	0.38	0.00	-4.27	≤11.00	PASS
	5775	-7.58	0.41	2.22	-4.95	≤30.00	PASS
11AX20SISO	5180	2.79	0.16	0.00	2.95	≤11.00	PASS
	5200	3.39	0.16	0.00	3.55	≤11.00	PASS
	5240	2.74	0.16	0.00	2.90	≤11.00	PASS
	5745	-1.94	0.16	2.22	0.44	≤30.00	PASS
	5785	-1.58	0.16	2.22	0.80	≤30.00	PASS
	5825	-1.75	0.16	2.22	0.63	≤30.00	PASS
11AX40SISO	5190	-1.91	0.26	0.00	-1.65	≤11.00	PASS
	5230	-2.44	0.26	0.00	-2.18	≤11.00	PASS
	5755	-4.39	0.26	2.22	-1.91	≤30.00	PASS
	5795	-4.33	0.26	2.22	-1.85	≤30.00	PASS
11AX80SISO	5210	-4.82	0.38	0.00	-4.44	≤11.00	PASS
	5775	-7.79	0.38	2.22	-5.19	≤30.00	PASS

Note : 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

6.6. Original test data

