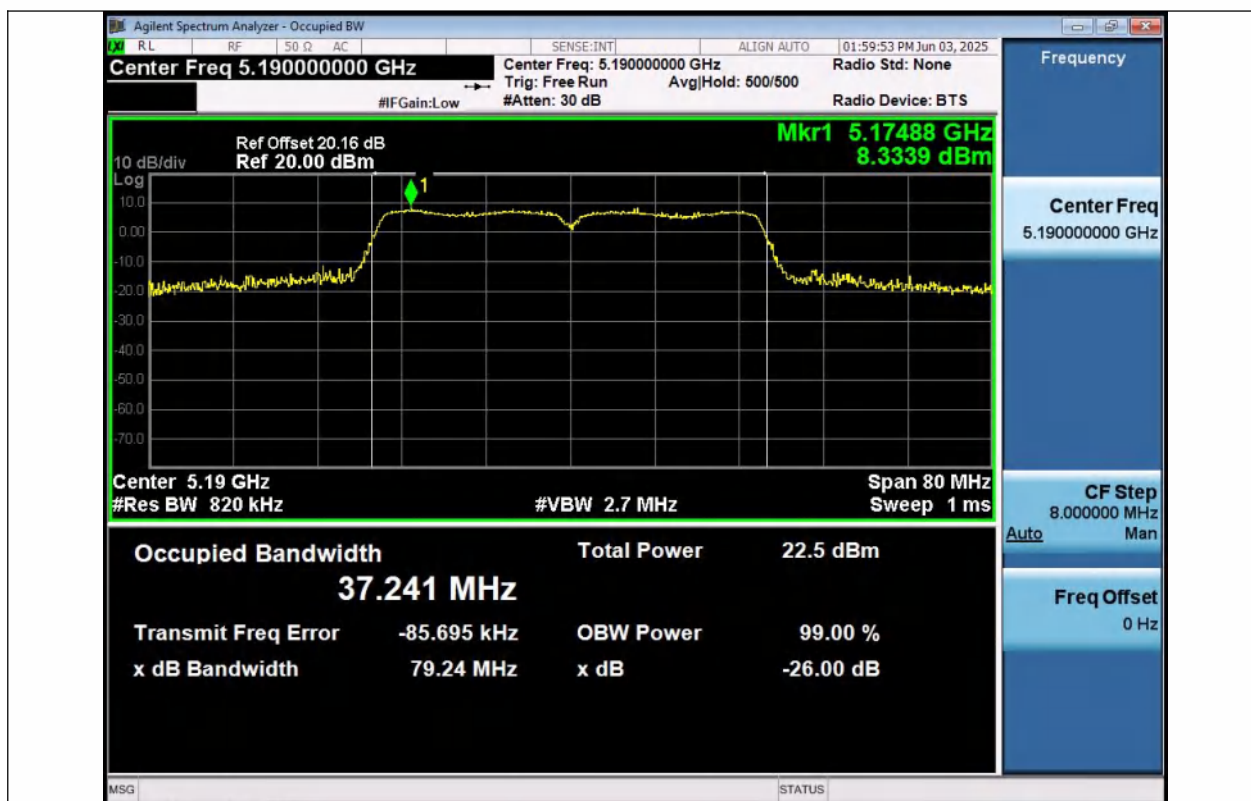
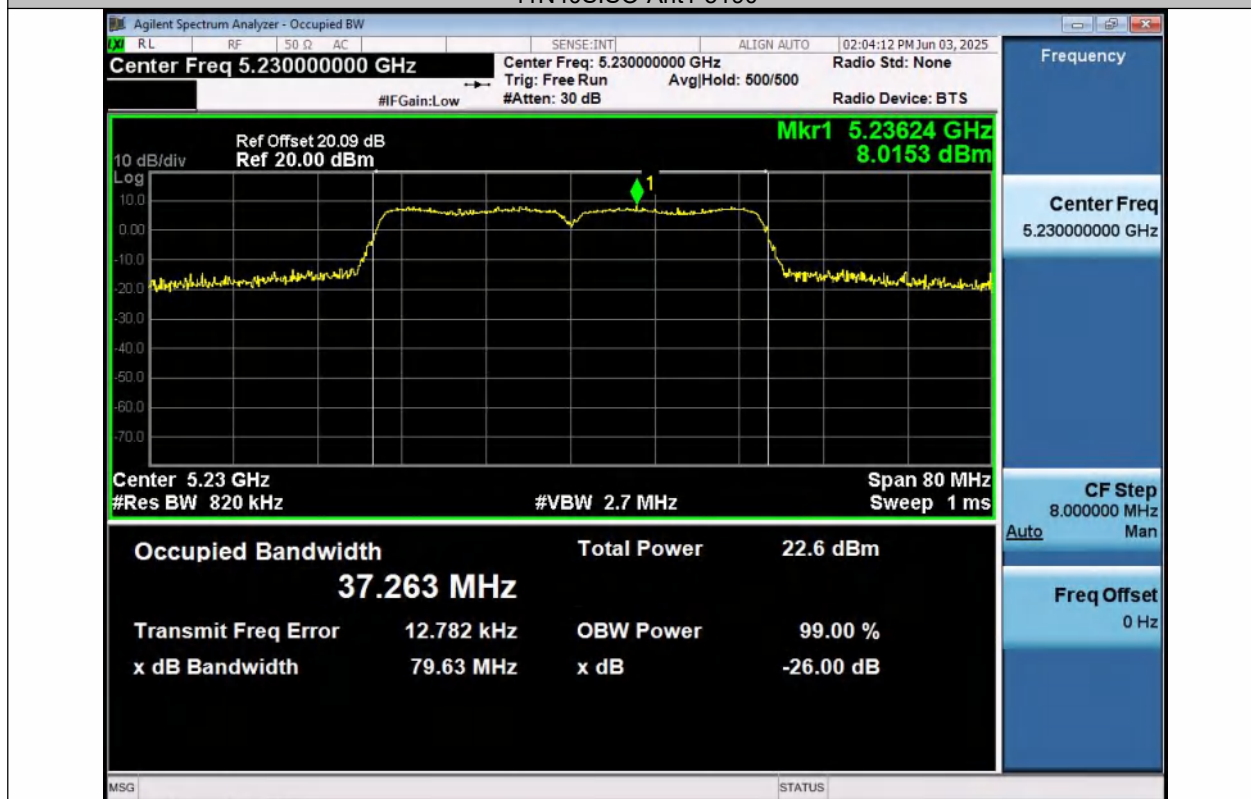
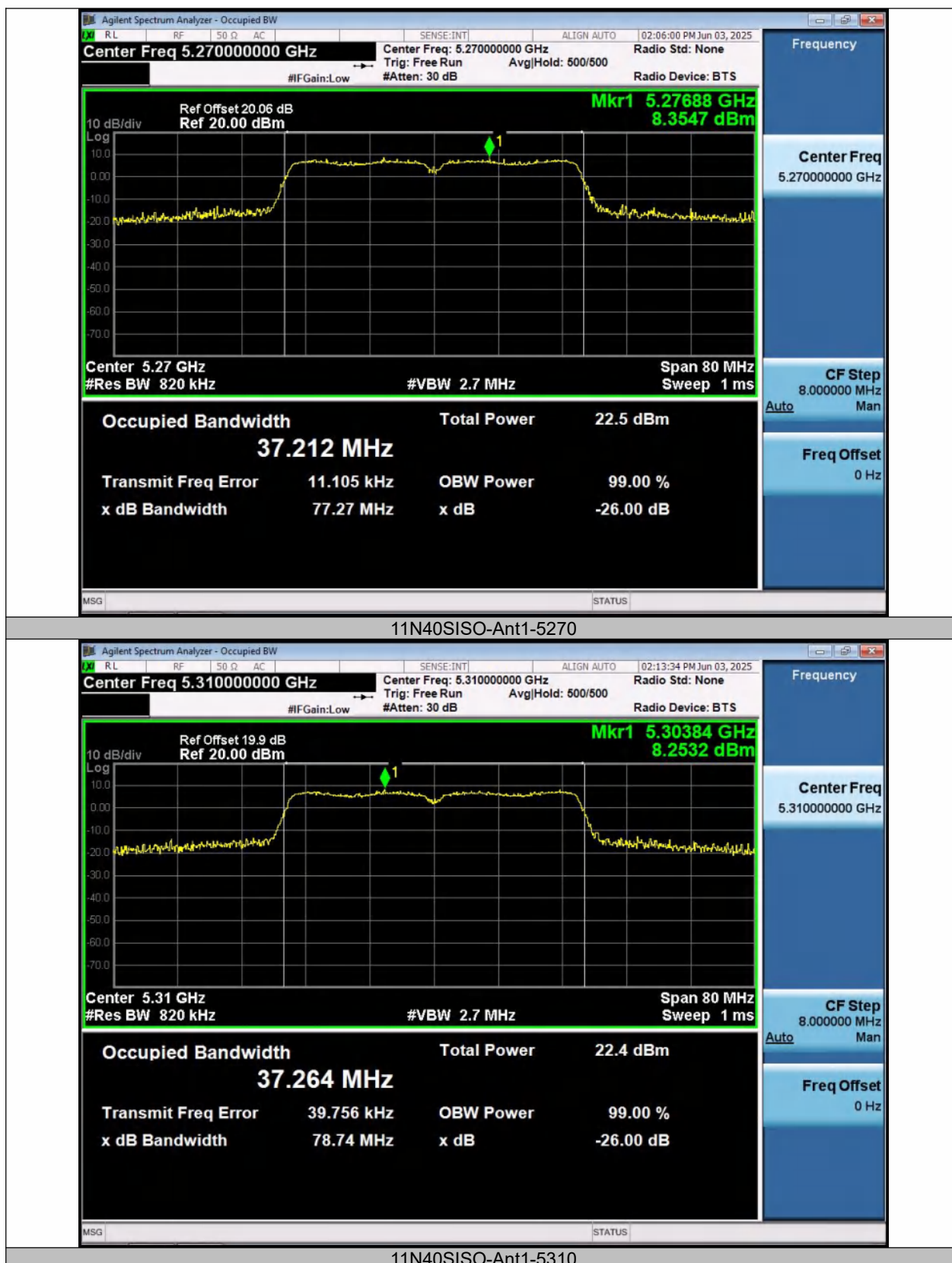


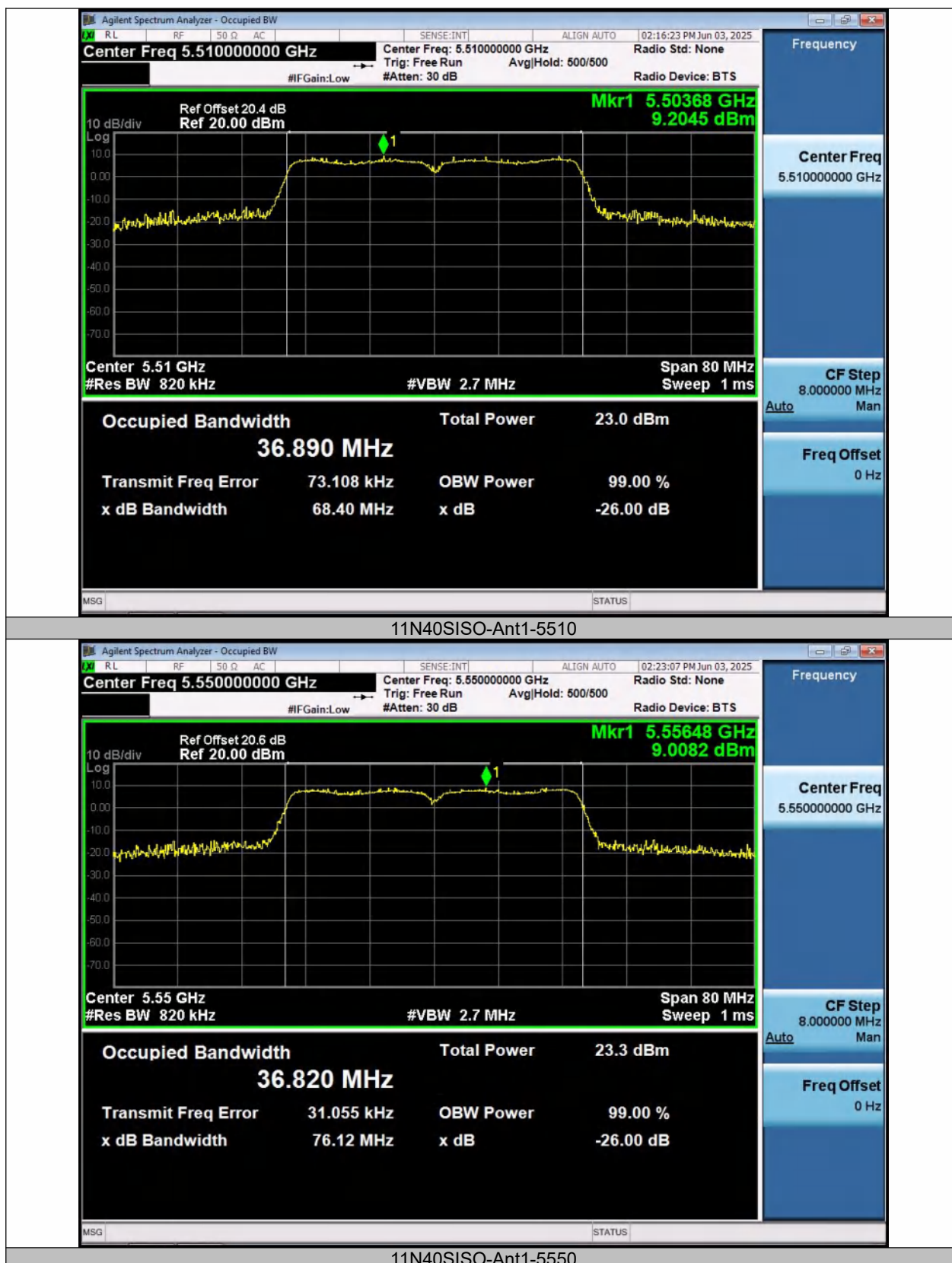


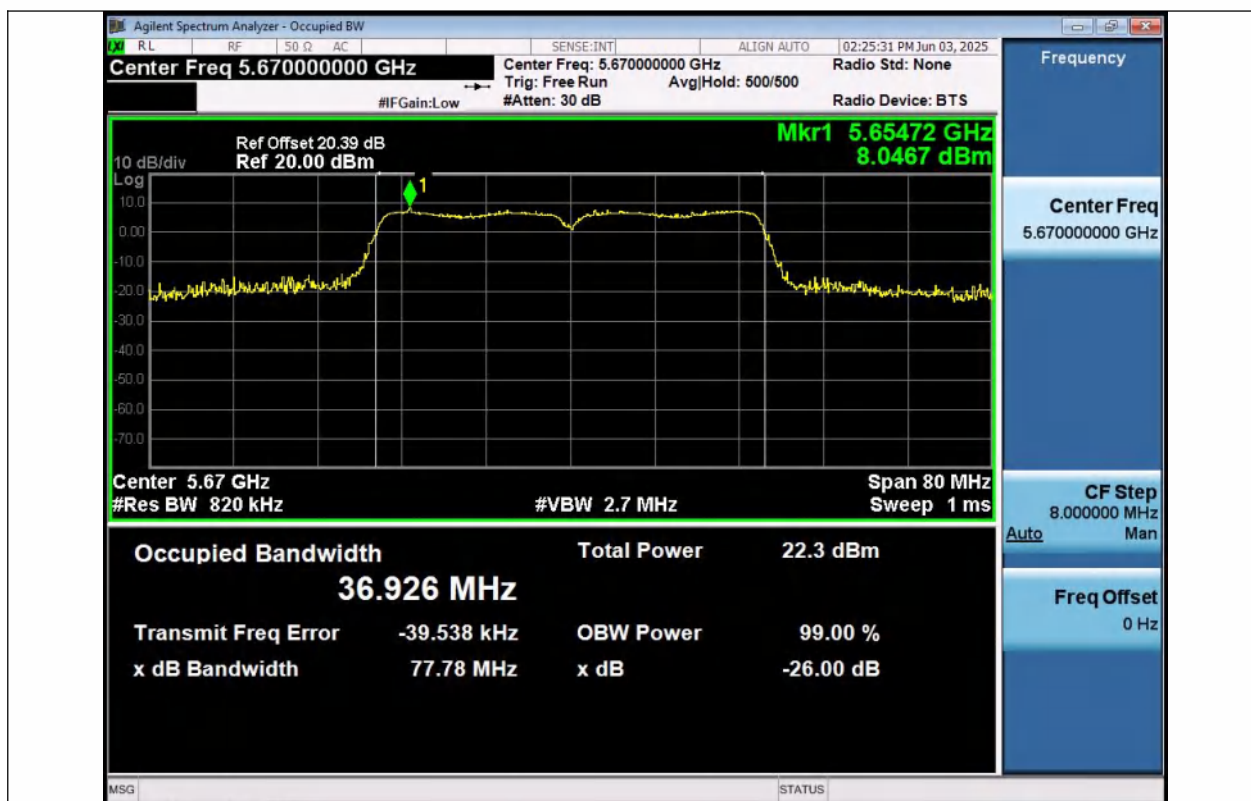
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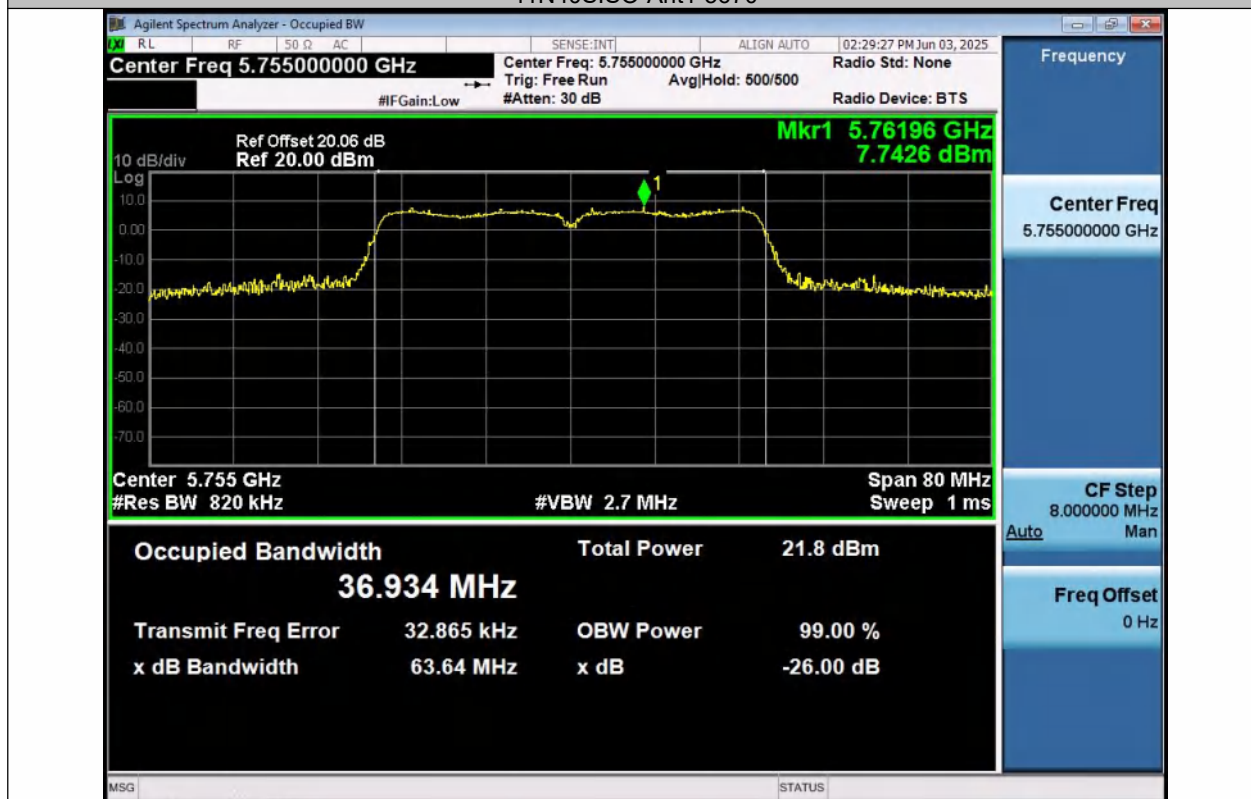
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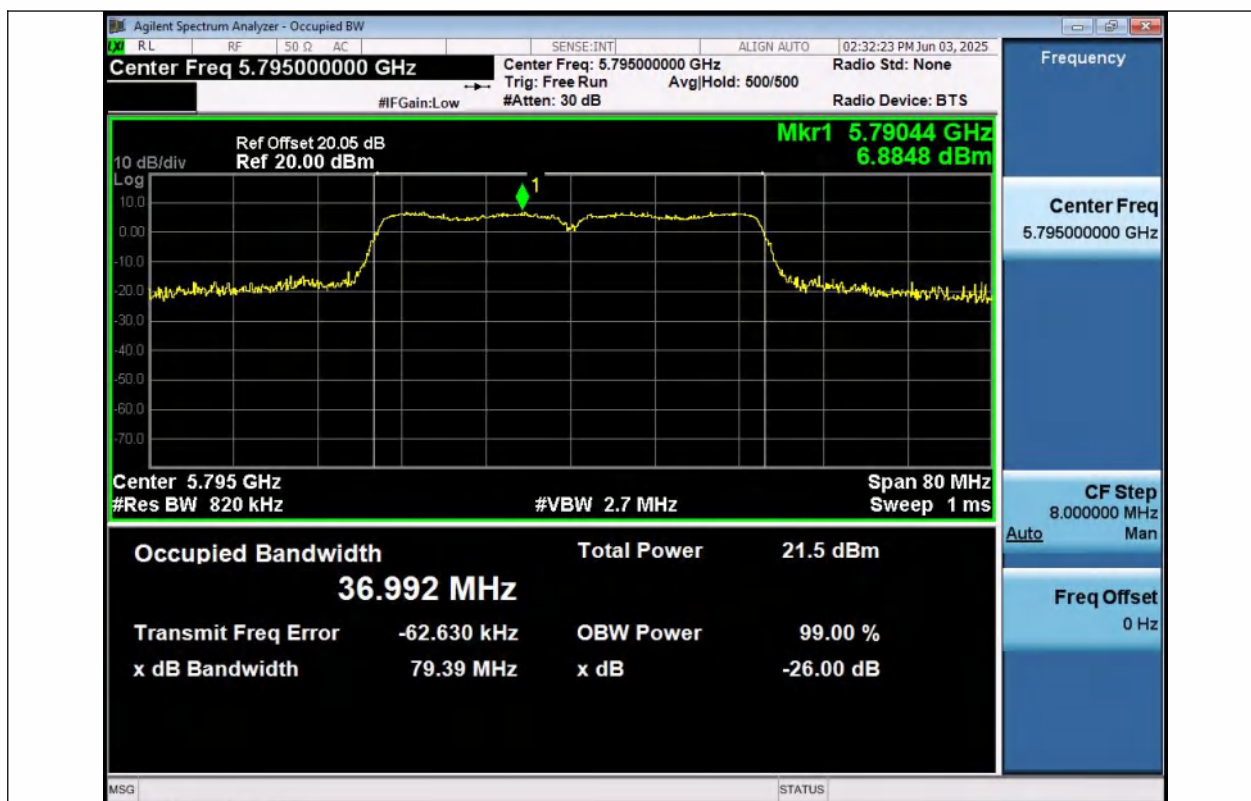




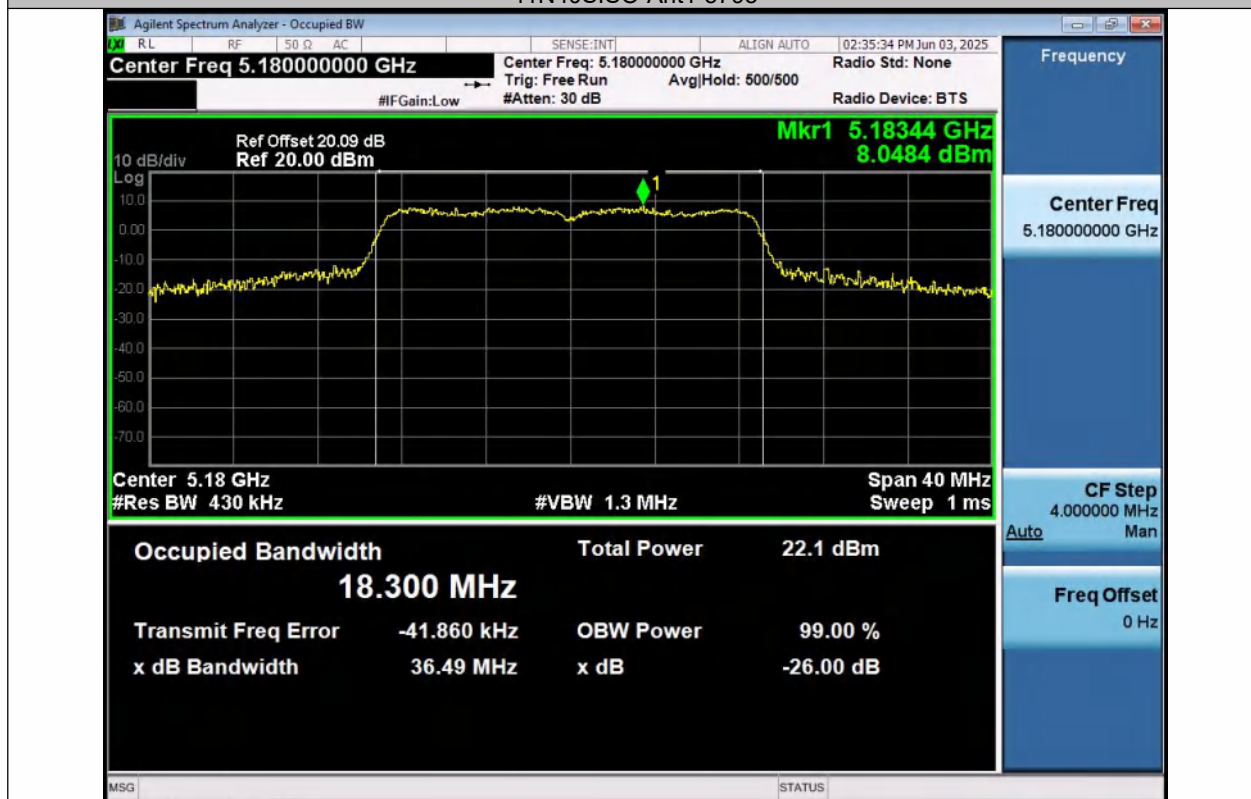
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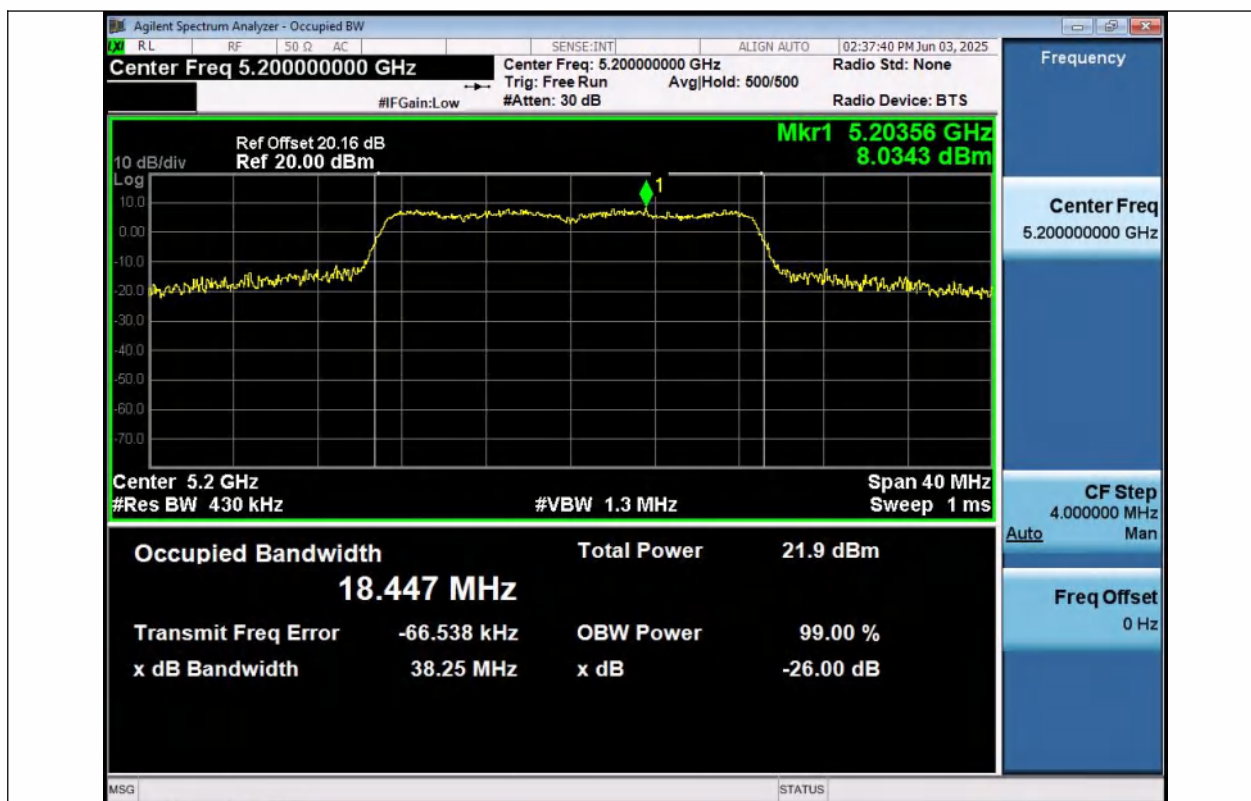
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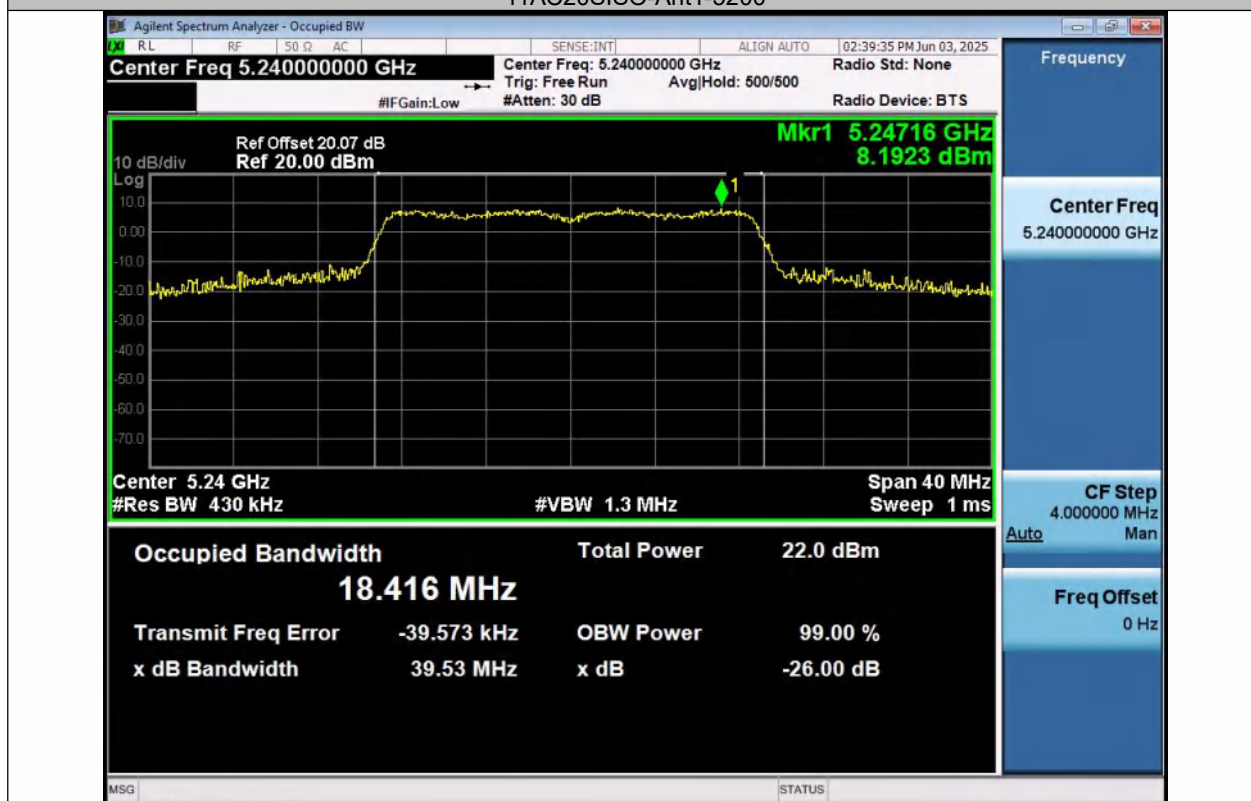
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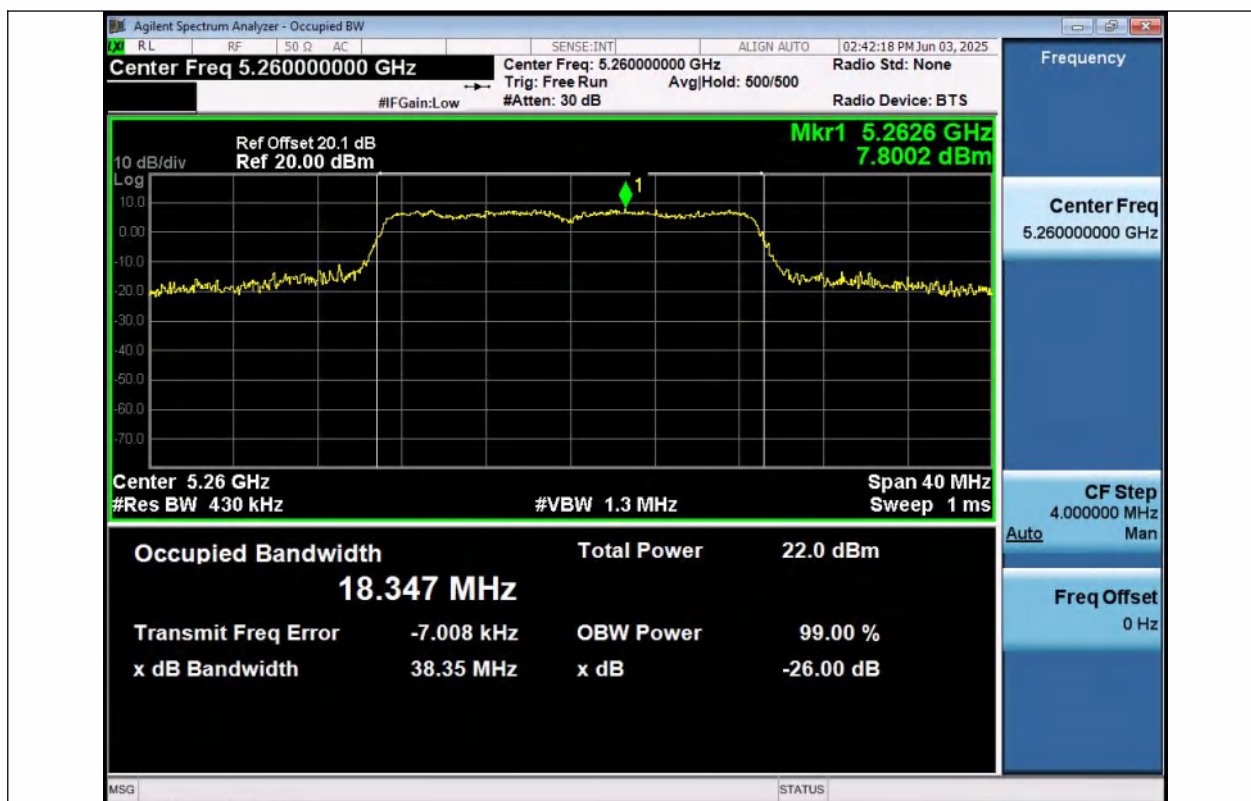
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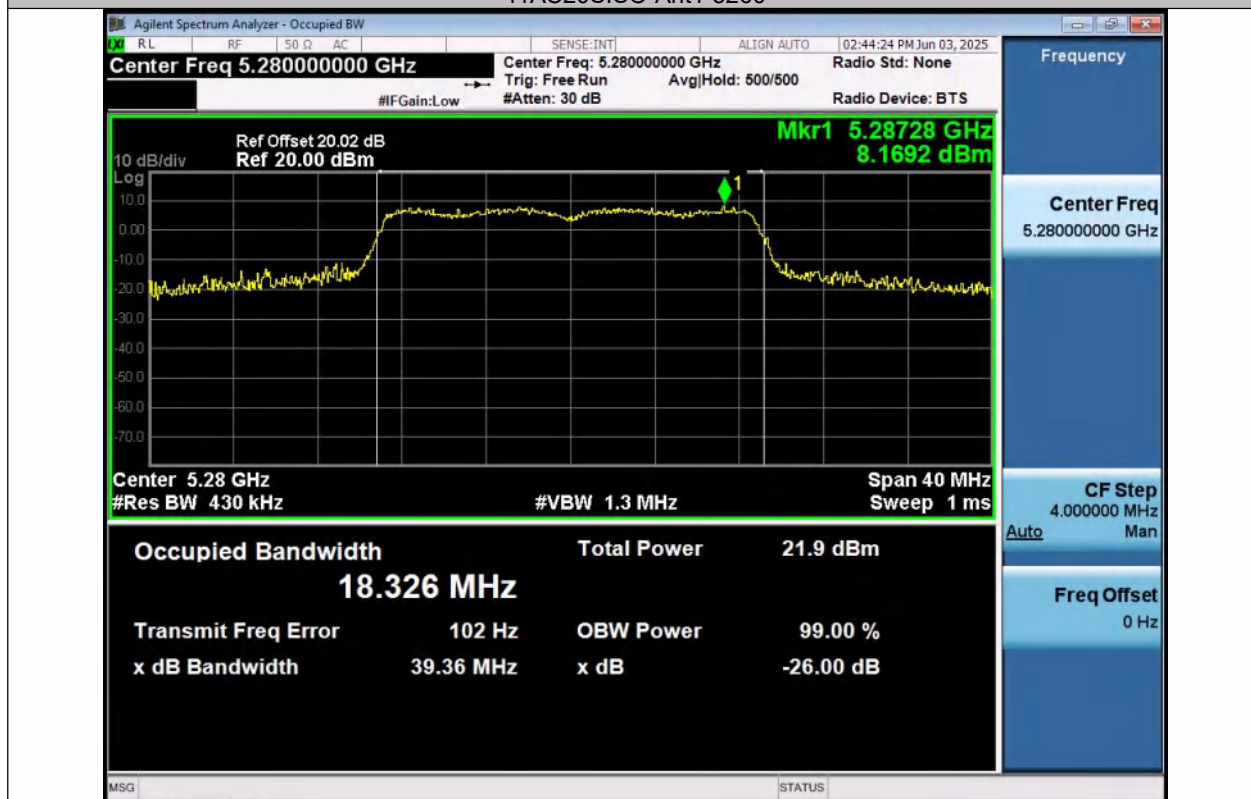
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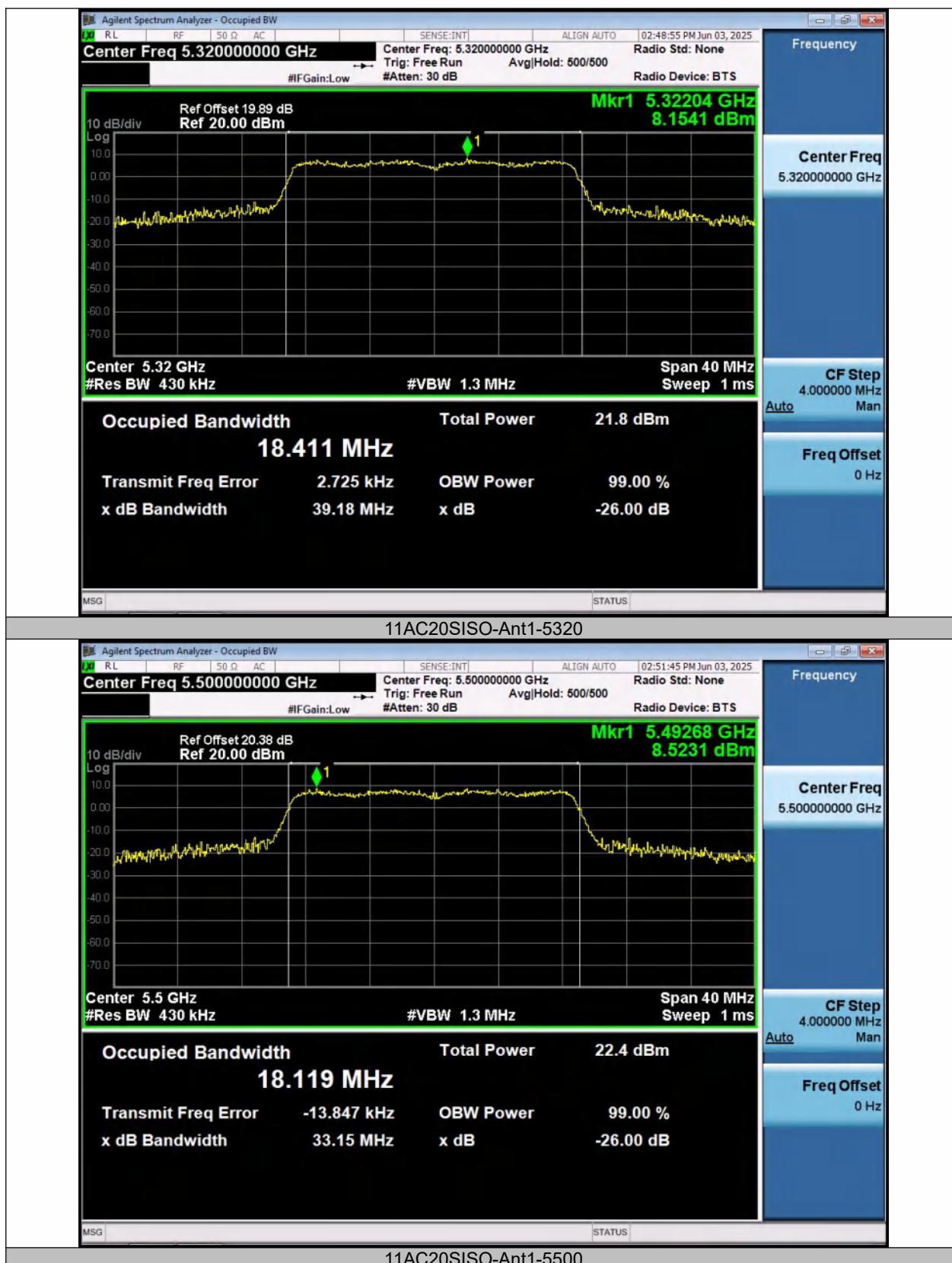
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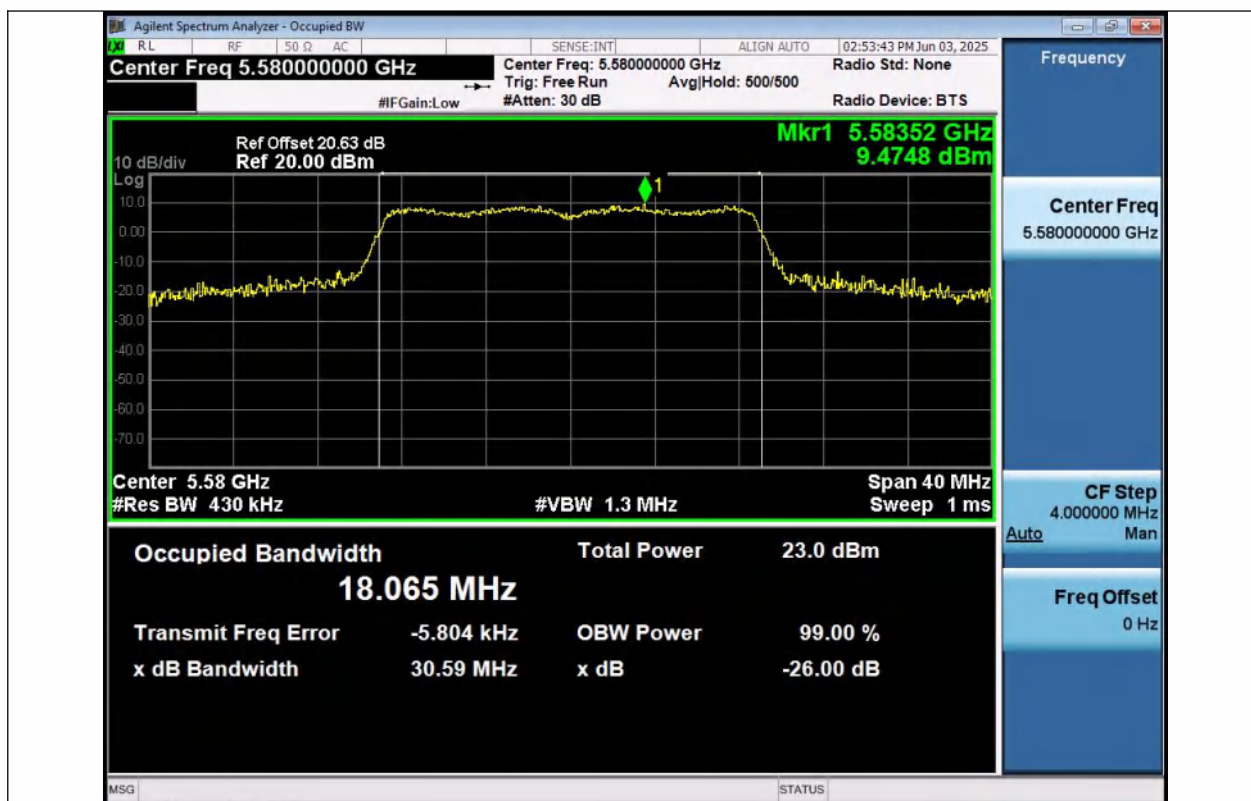


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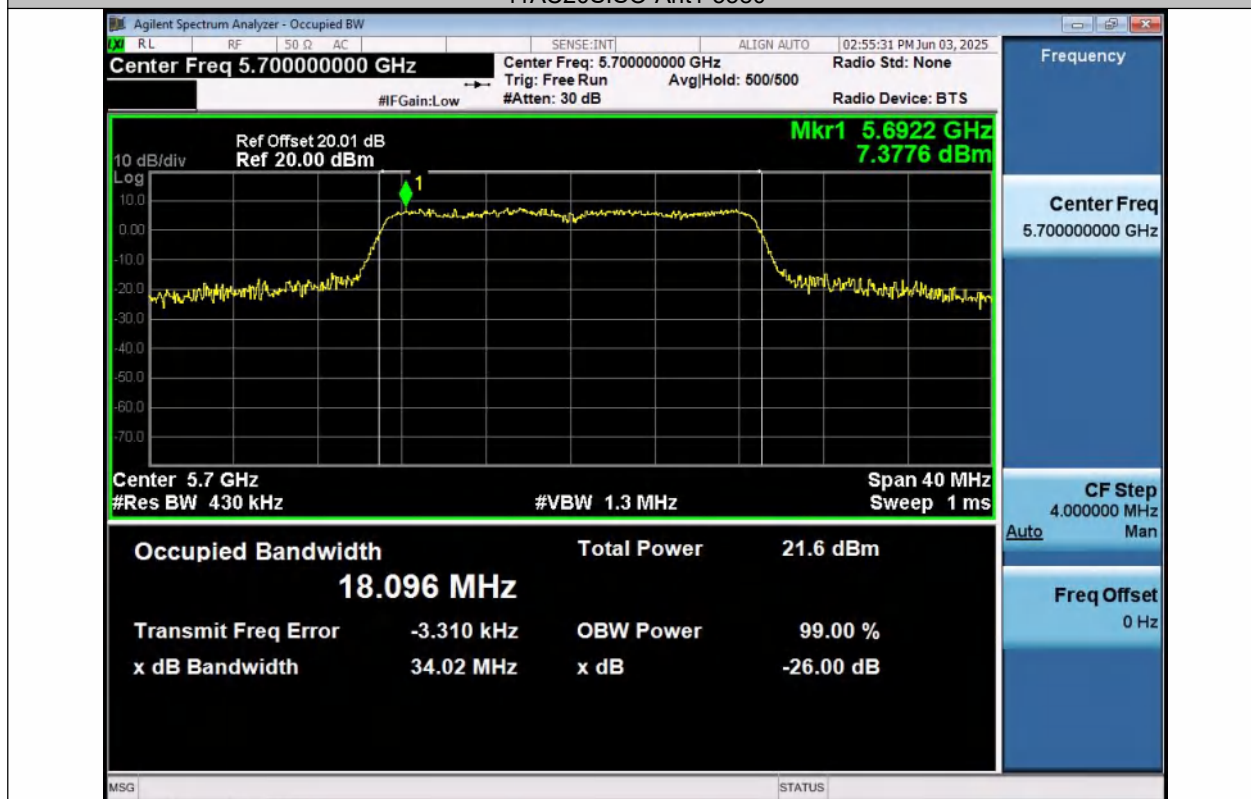


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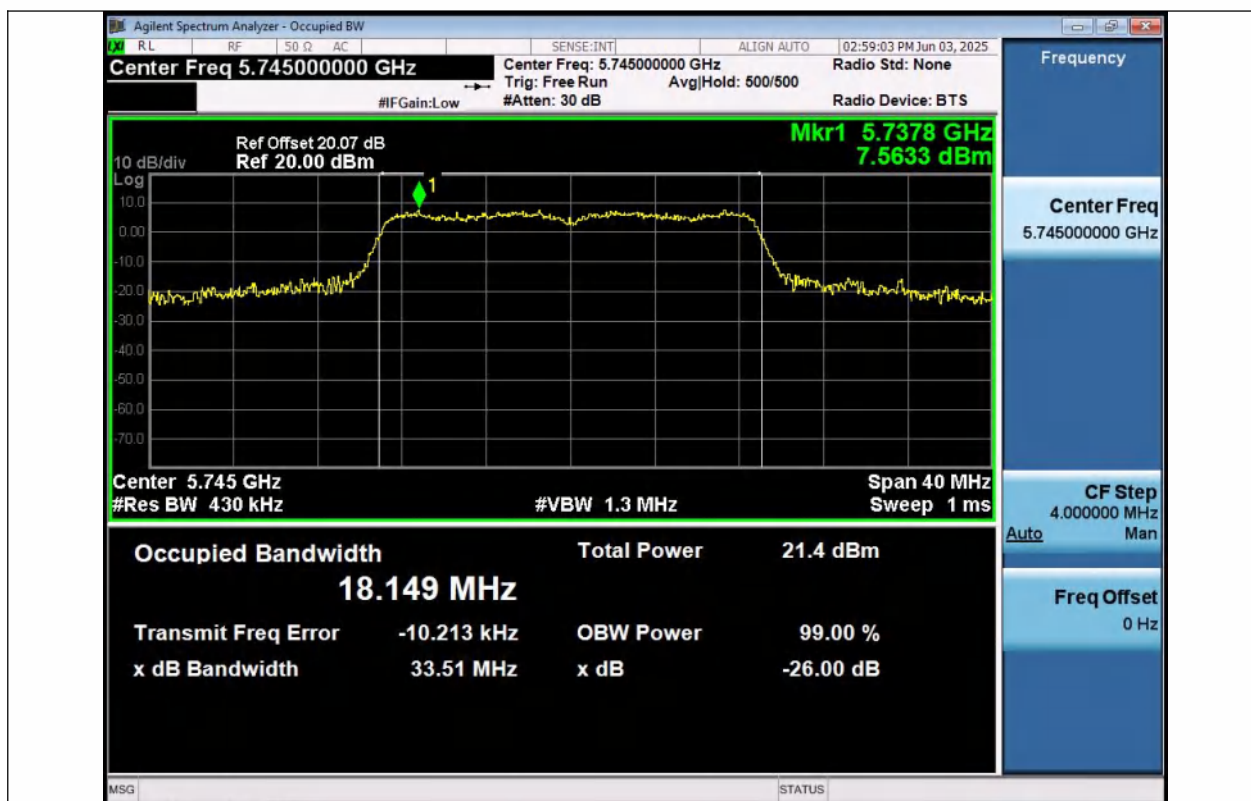




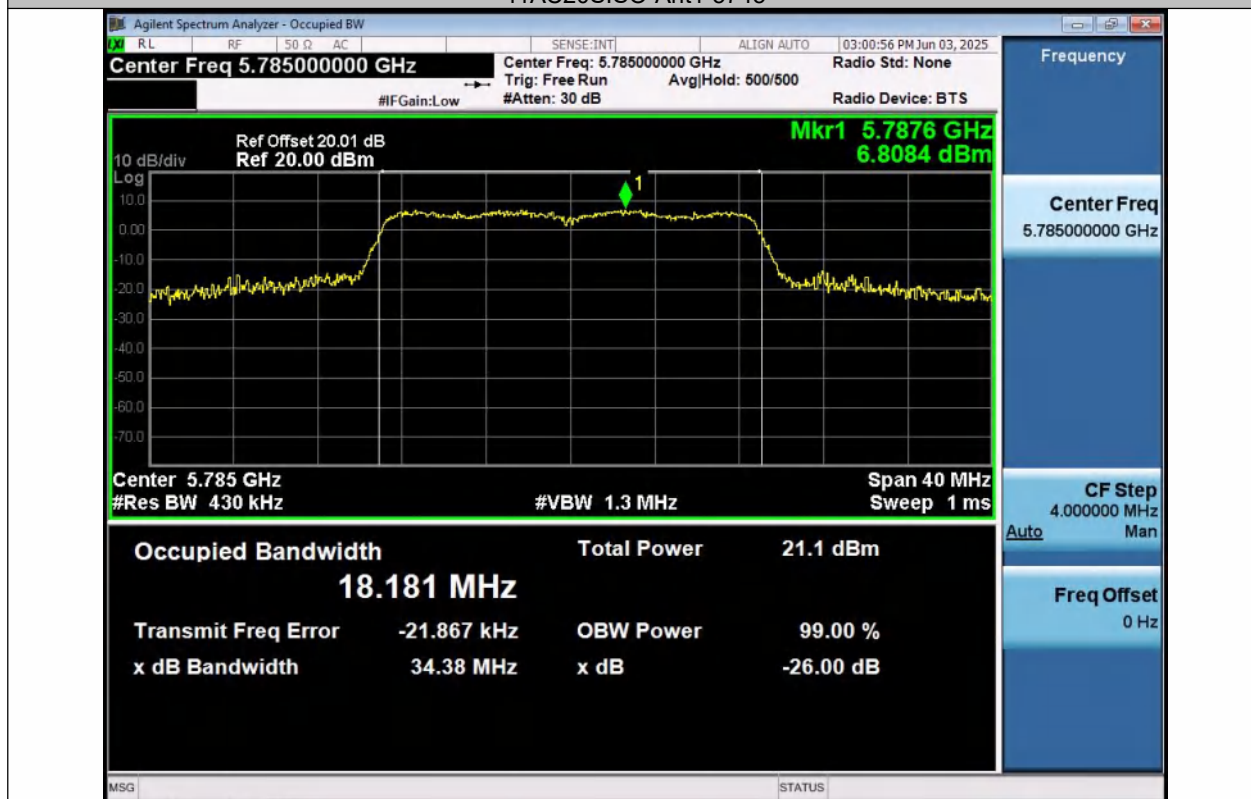
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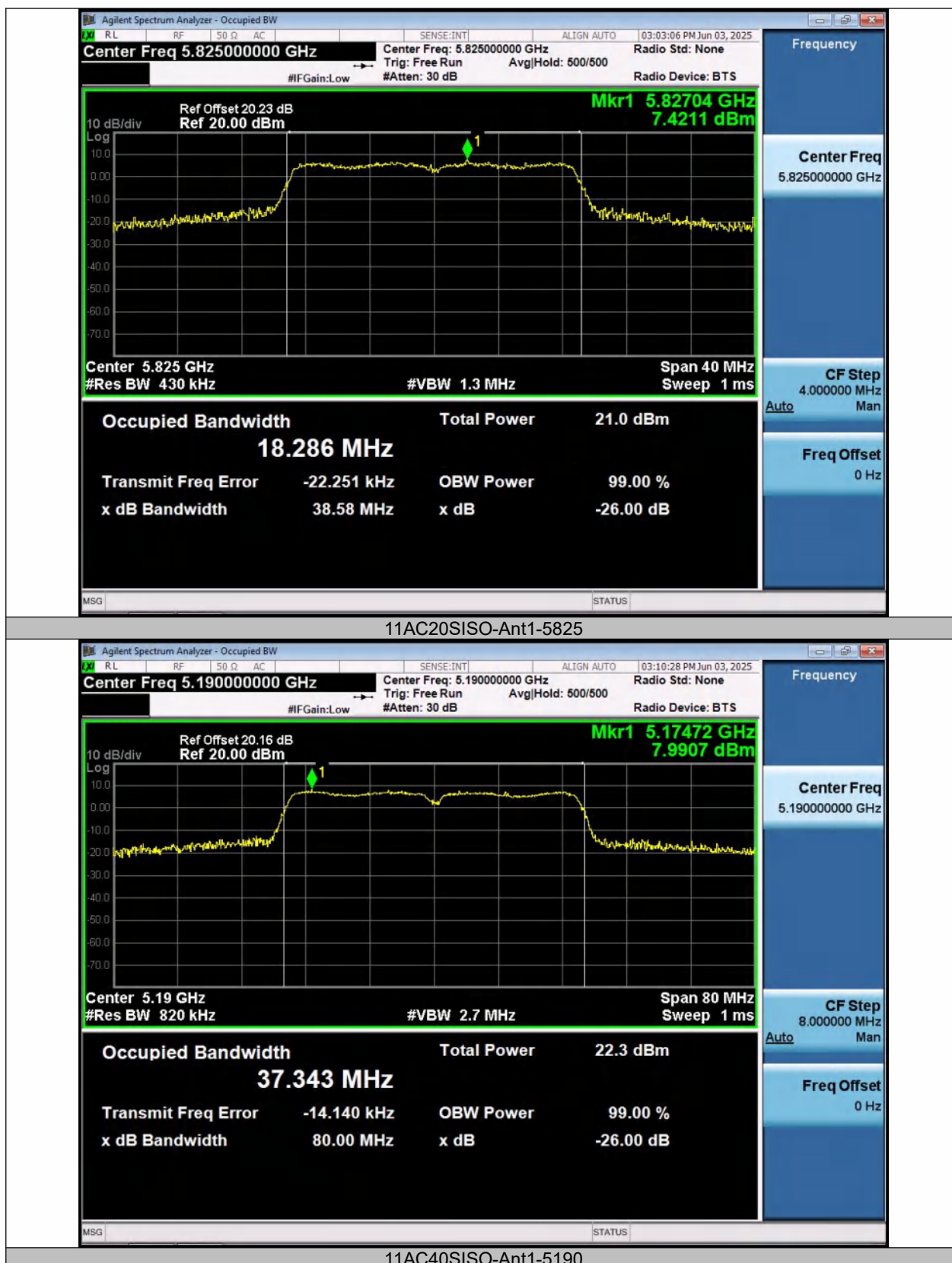
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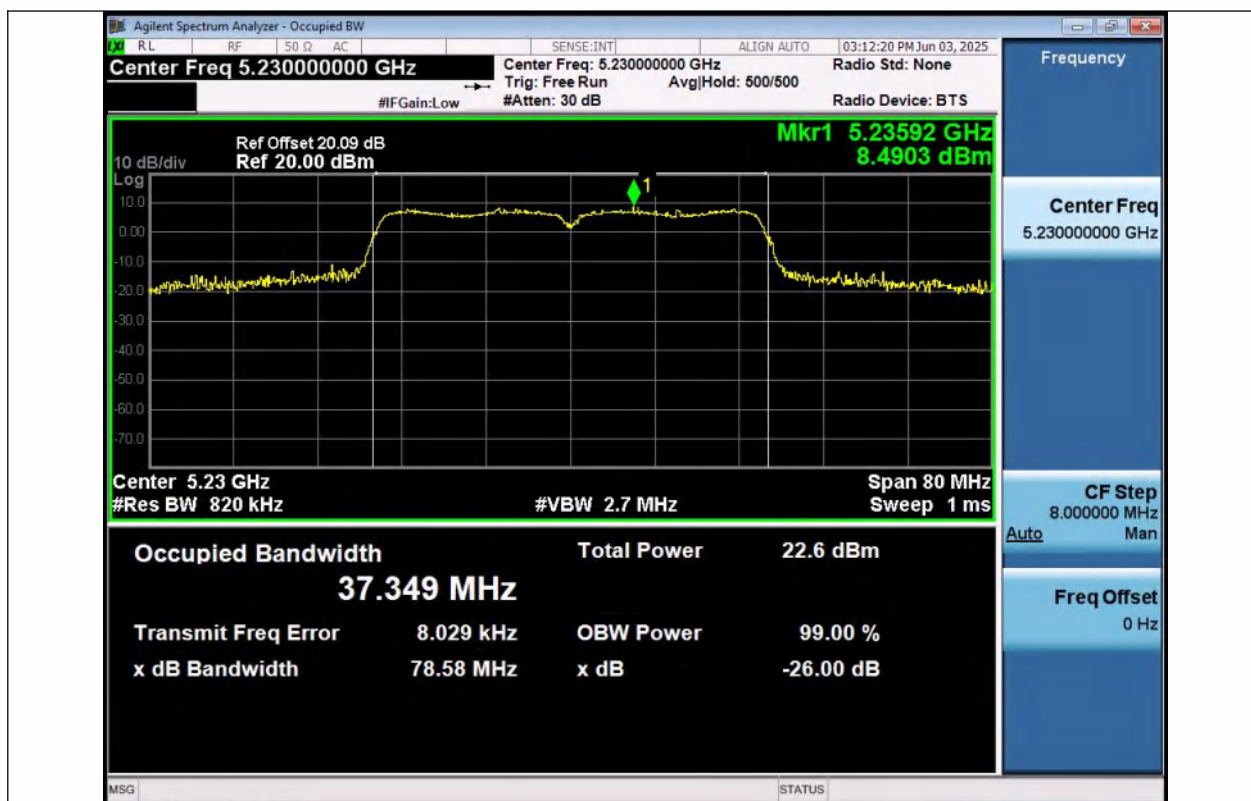


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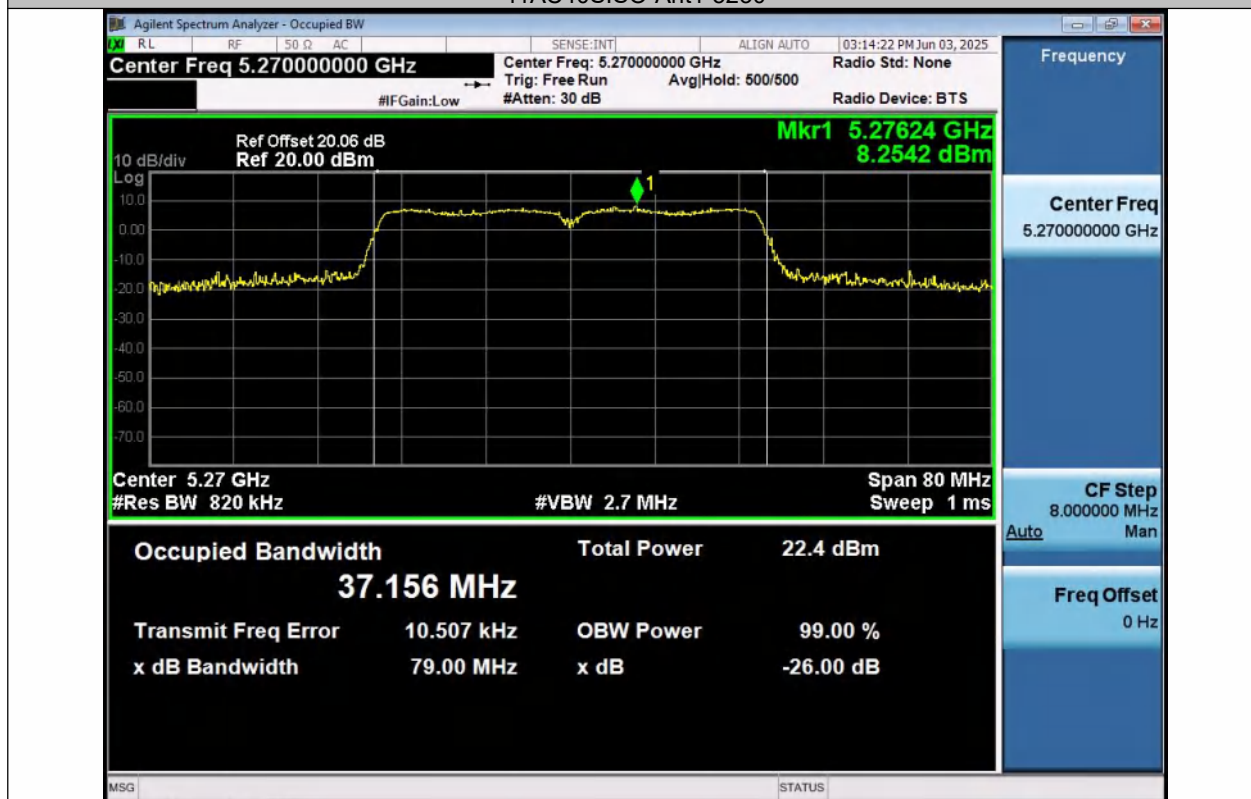


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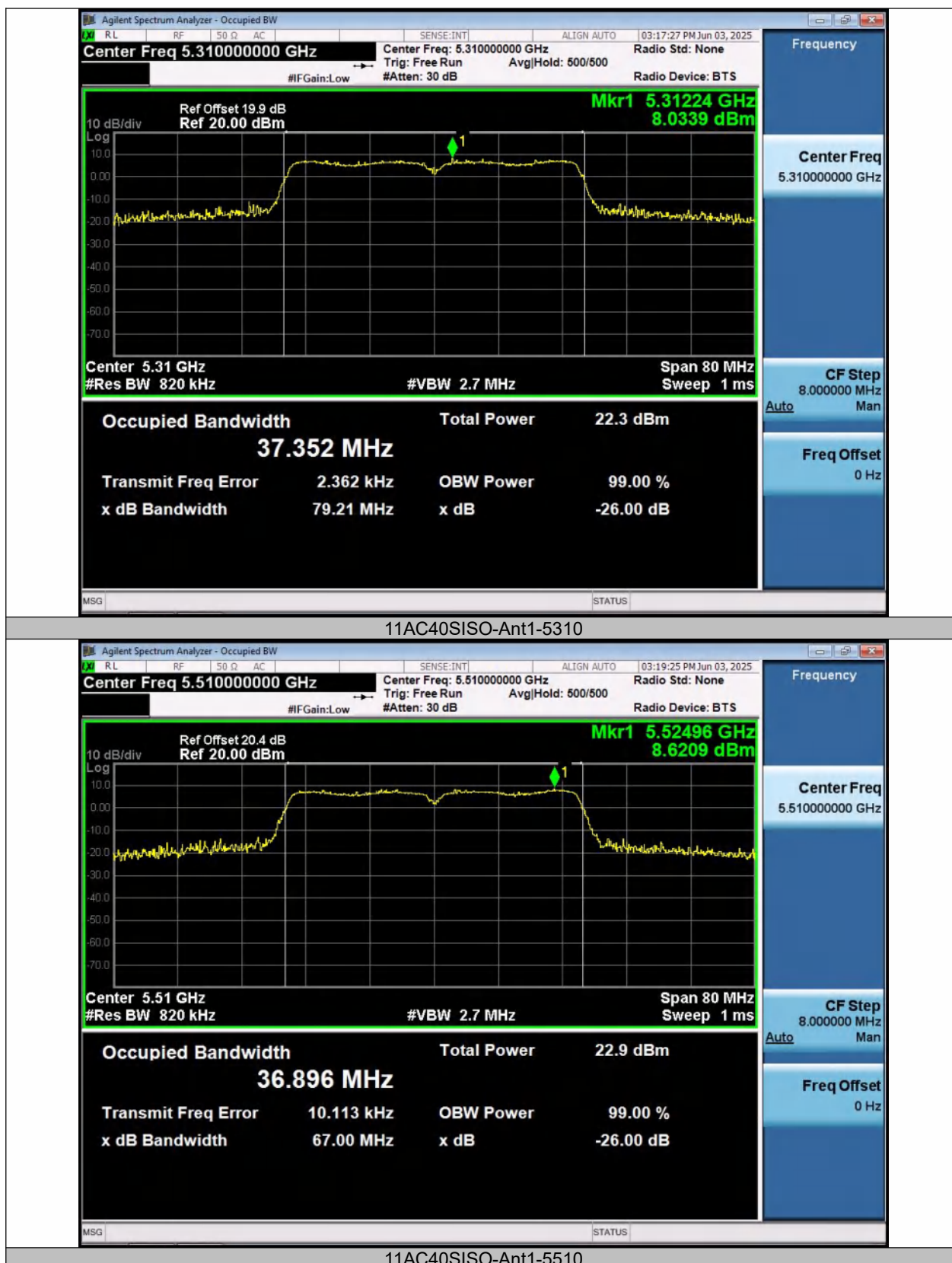


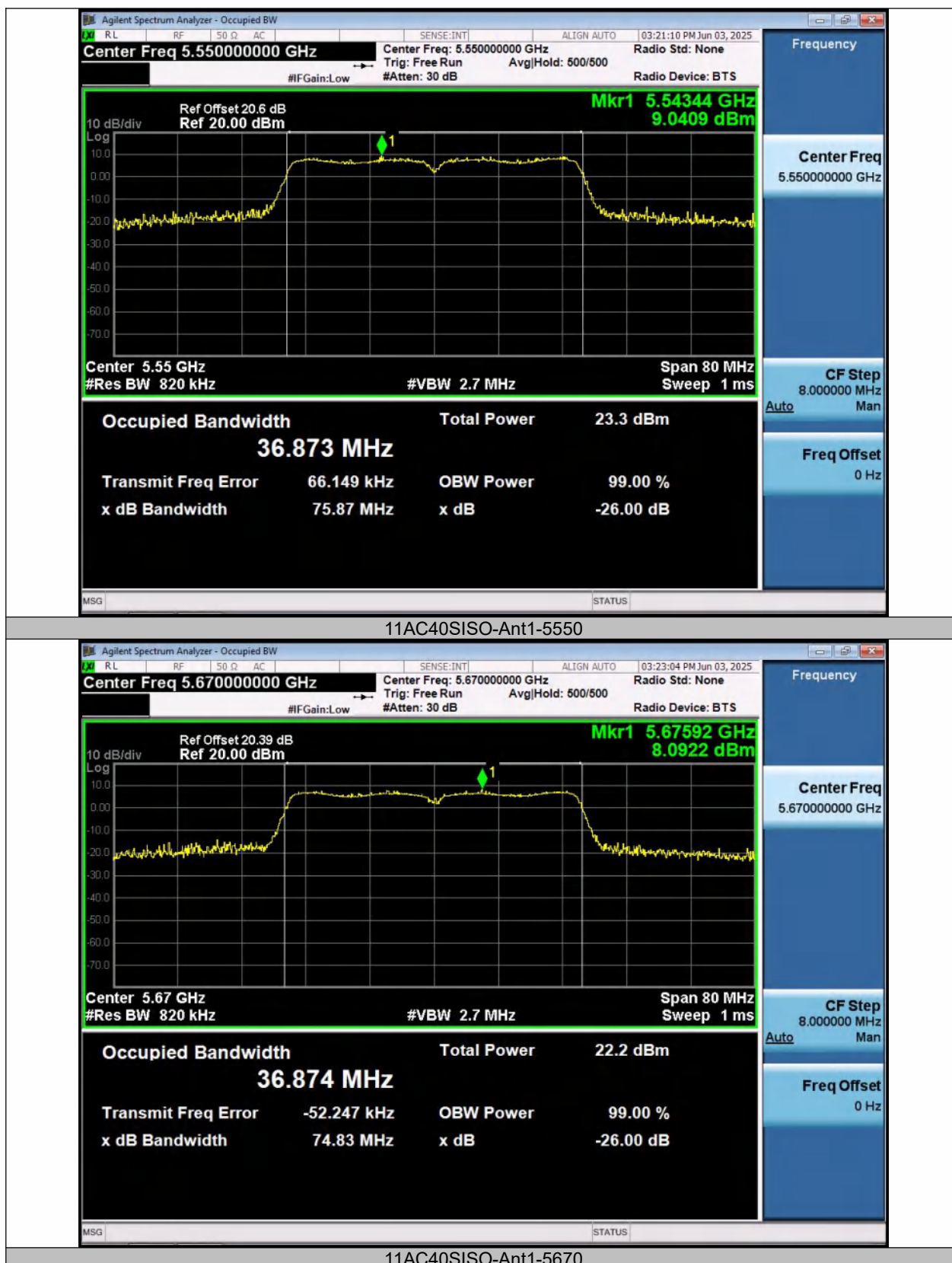


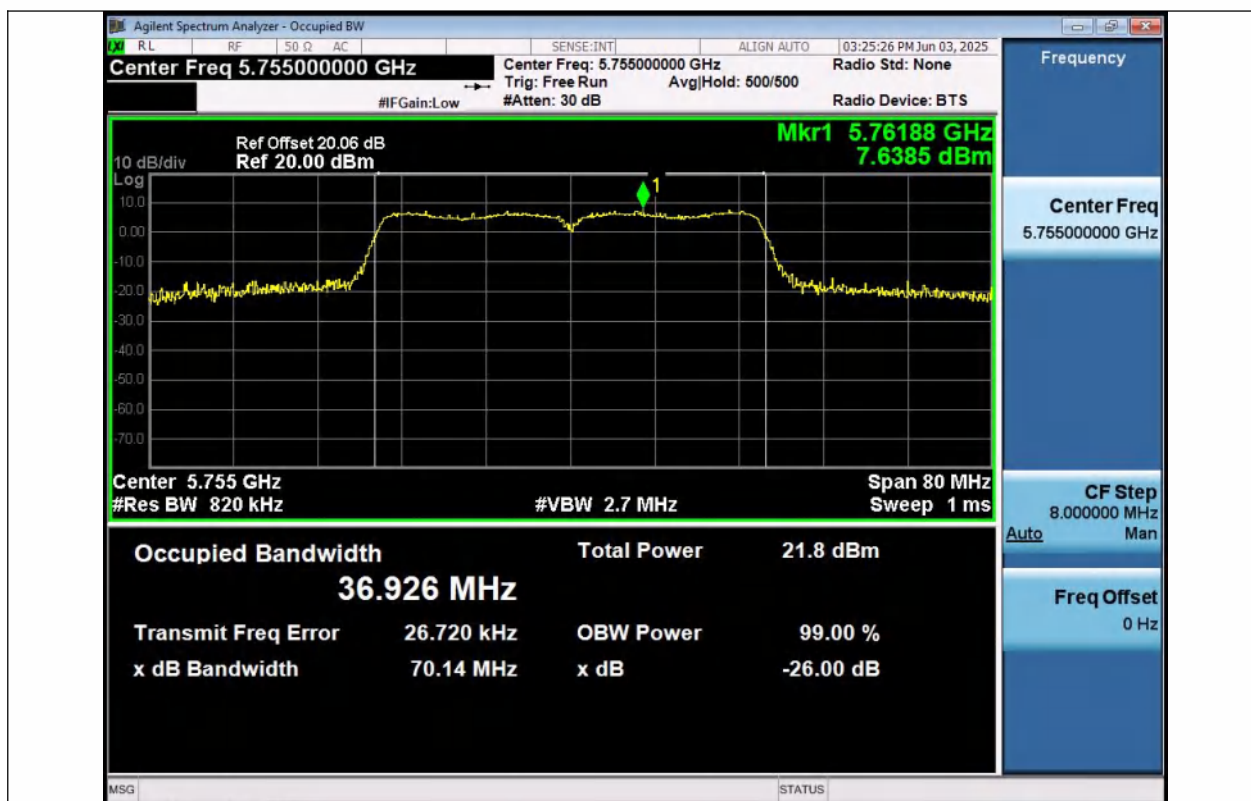
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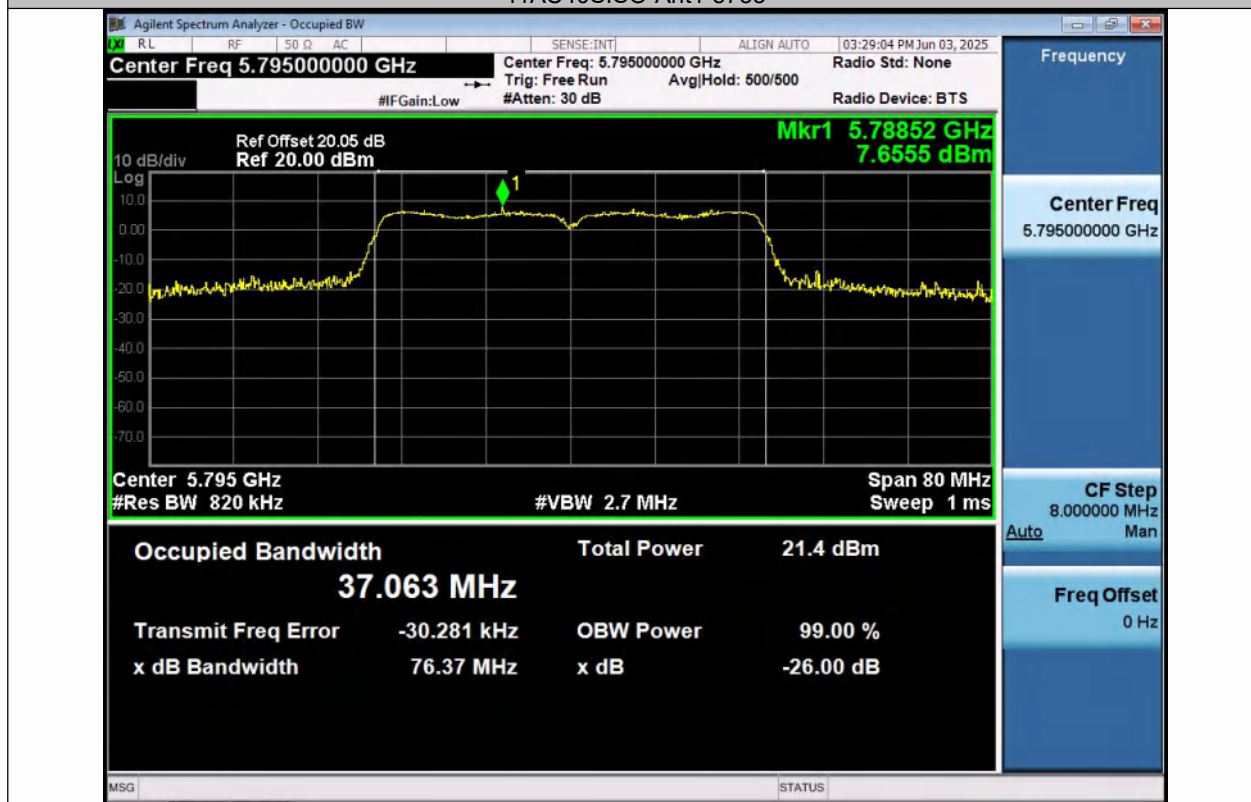
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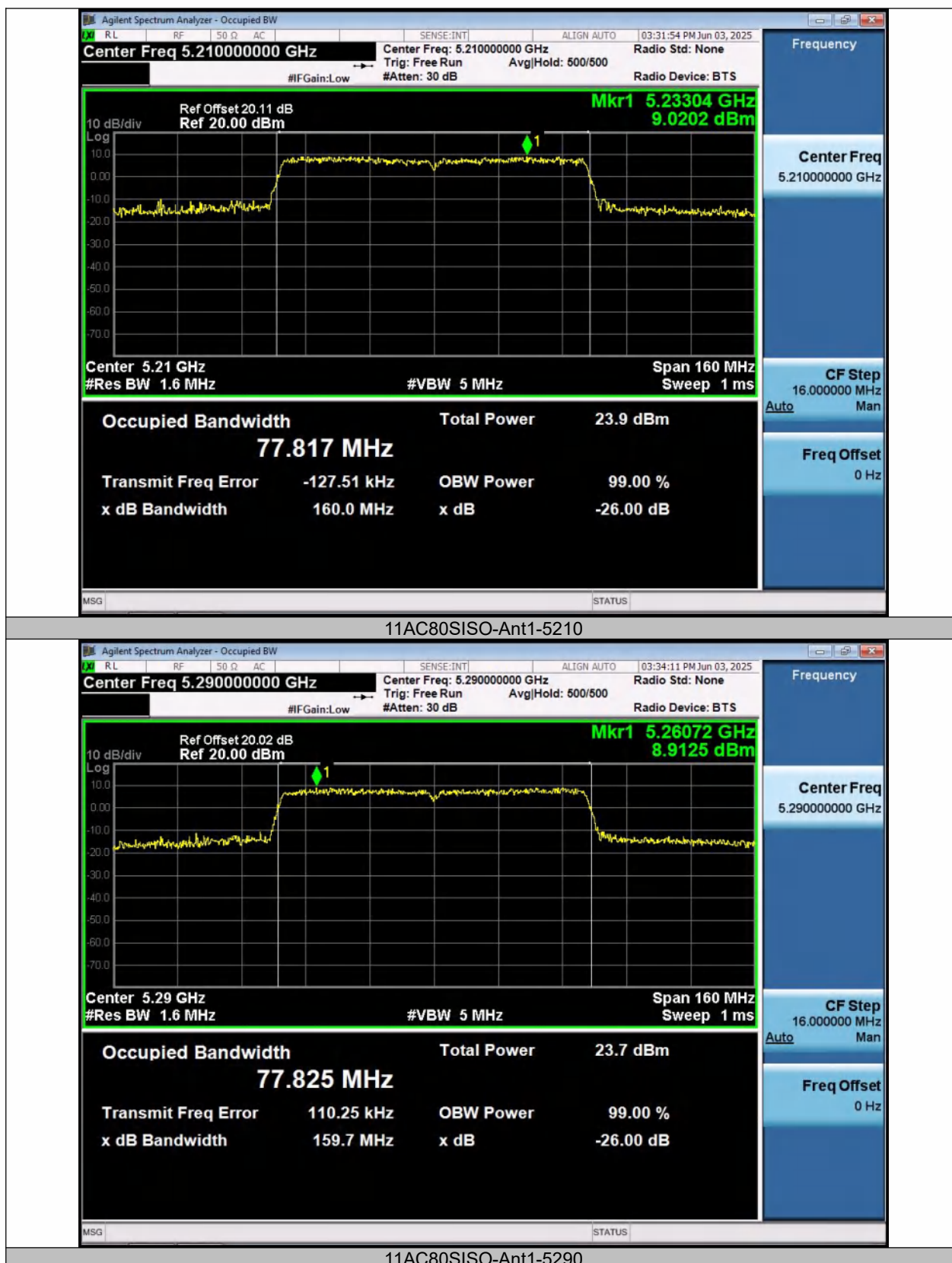


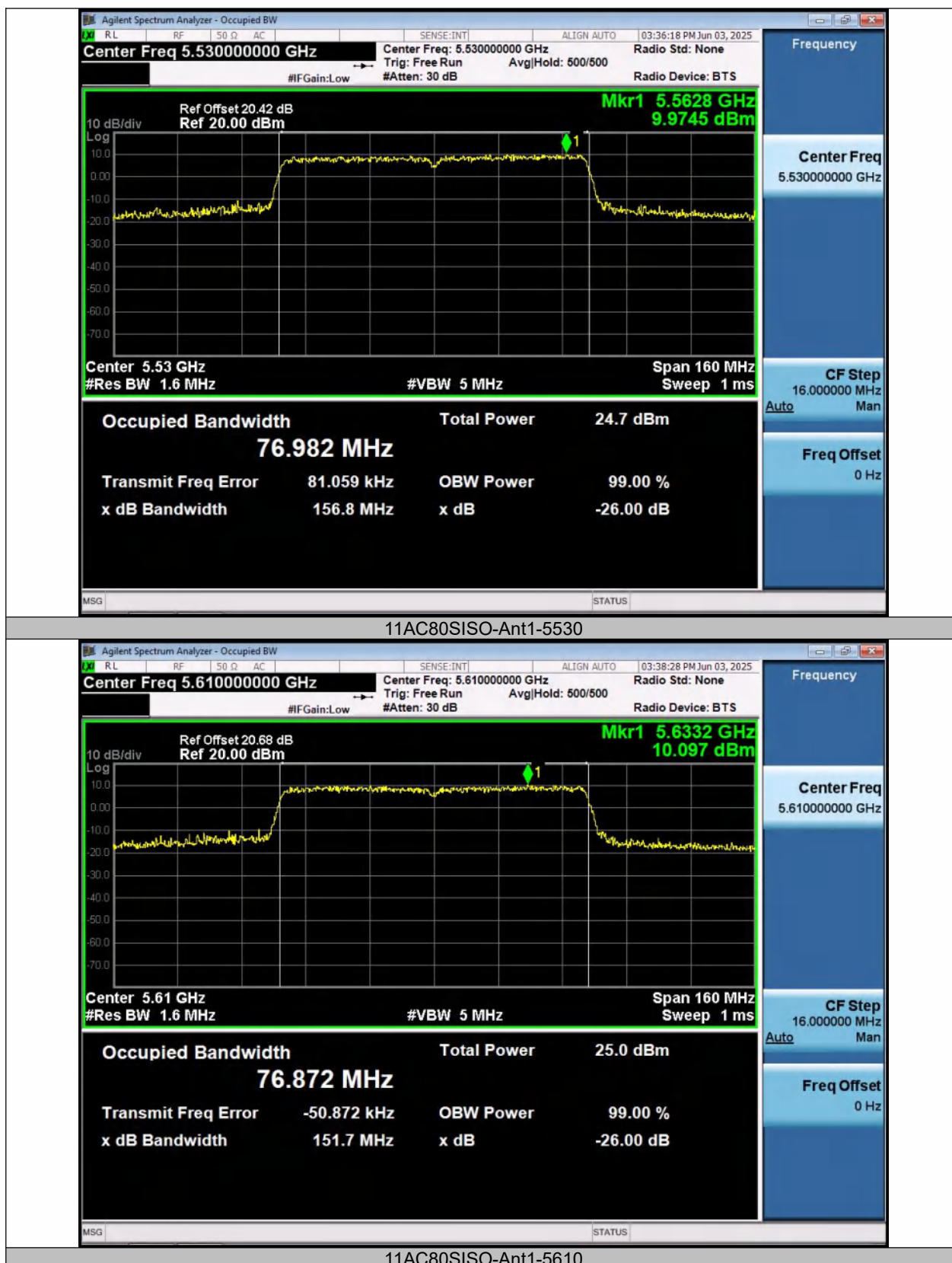


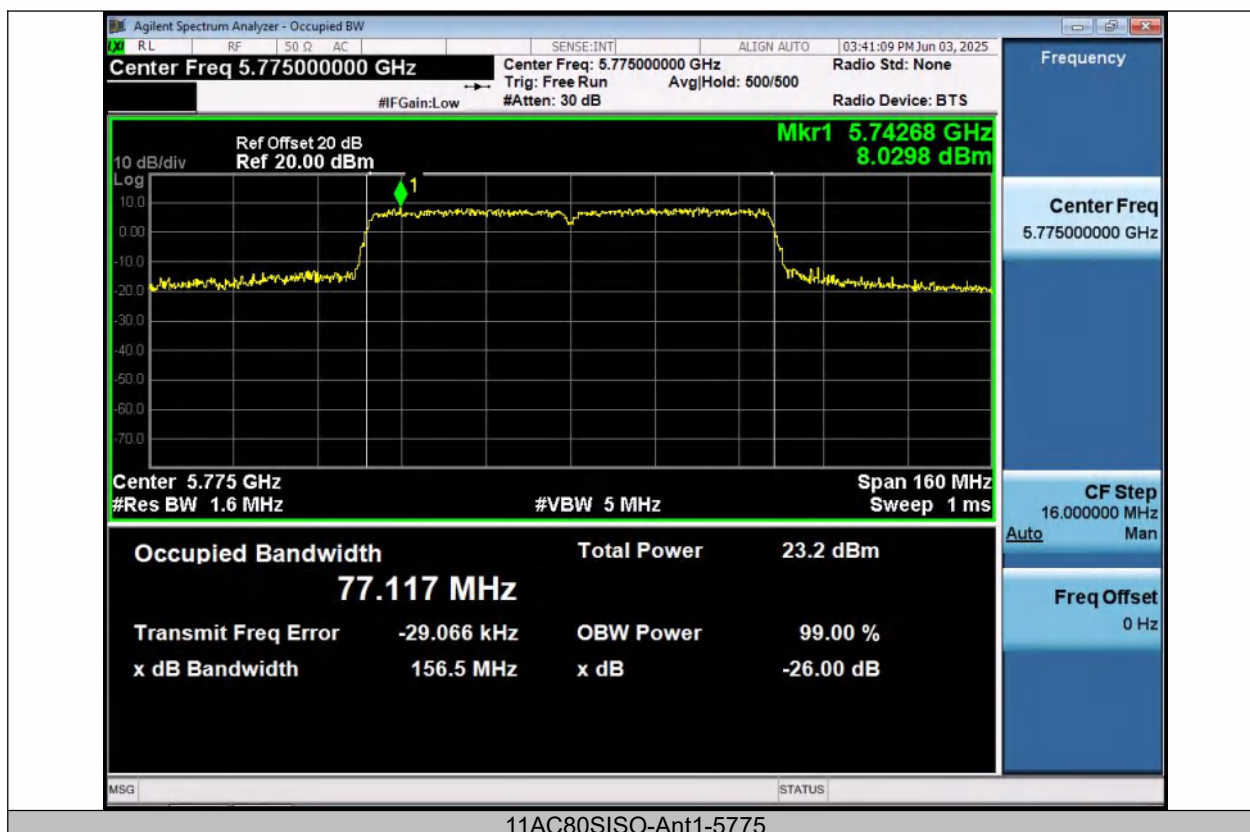
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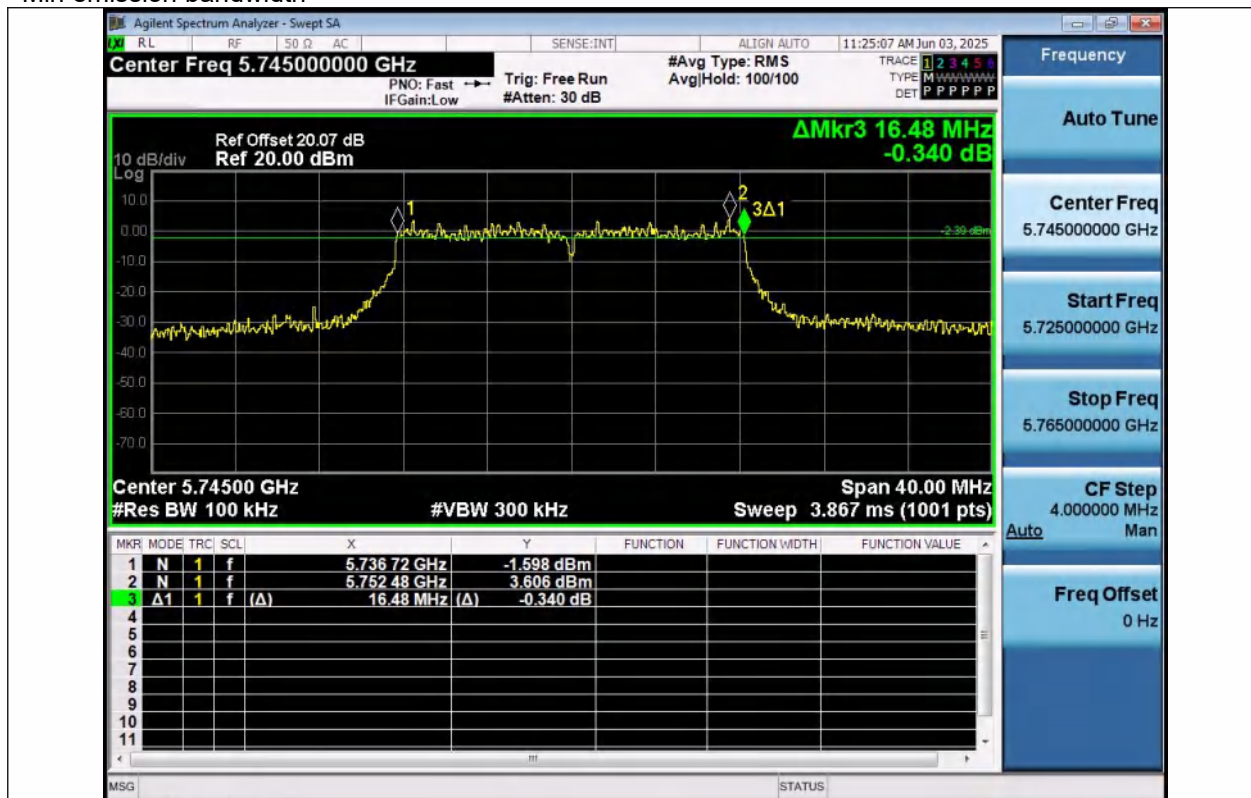
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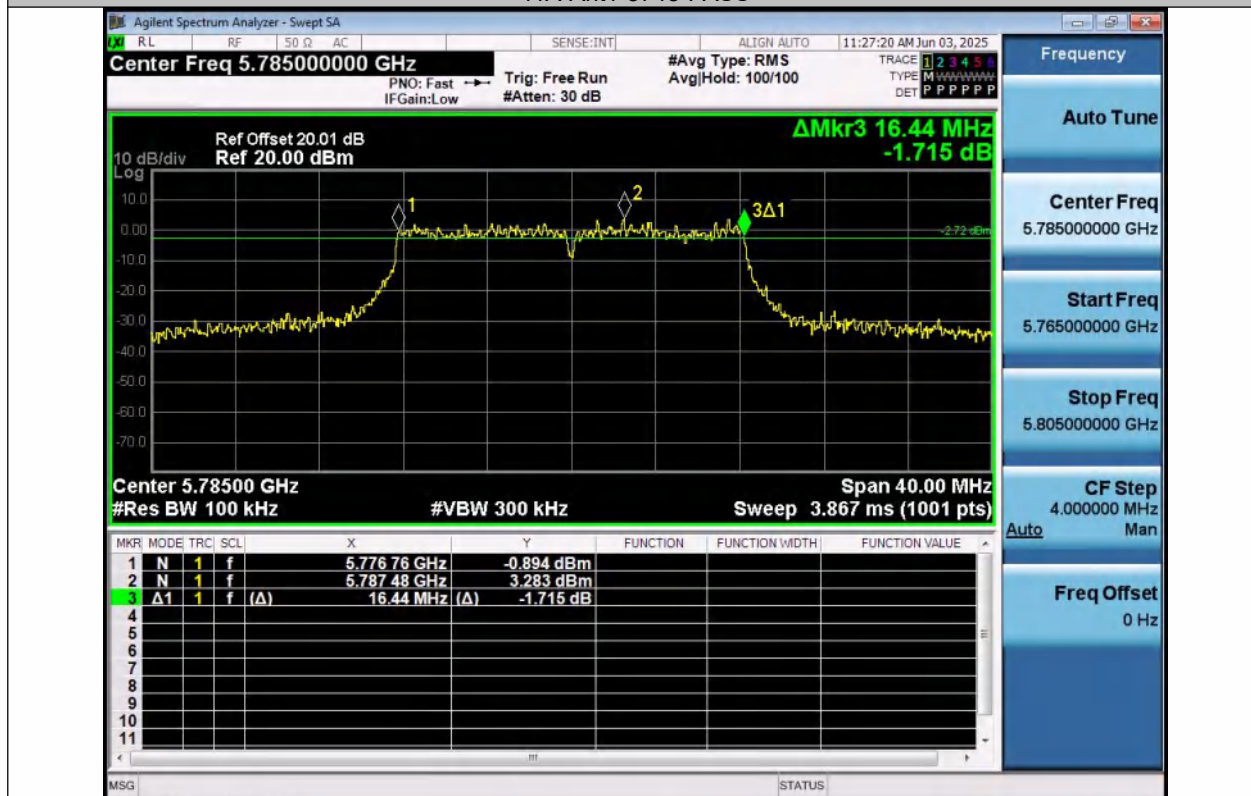




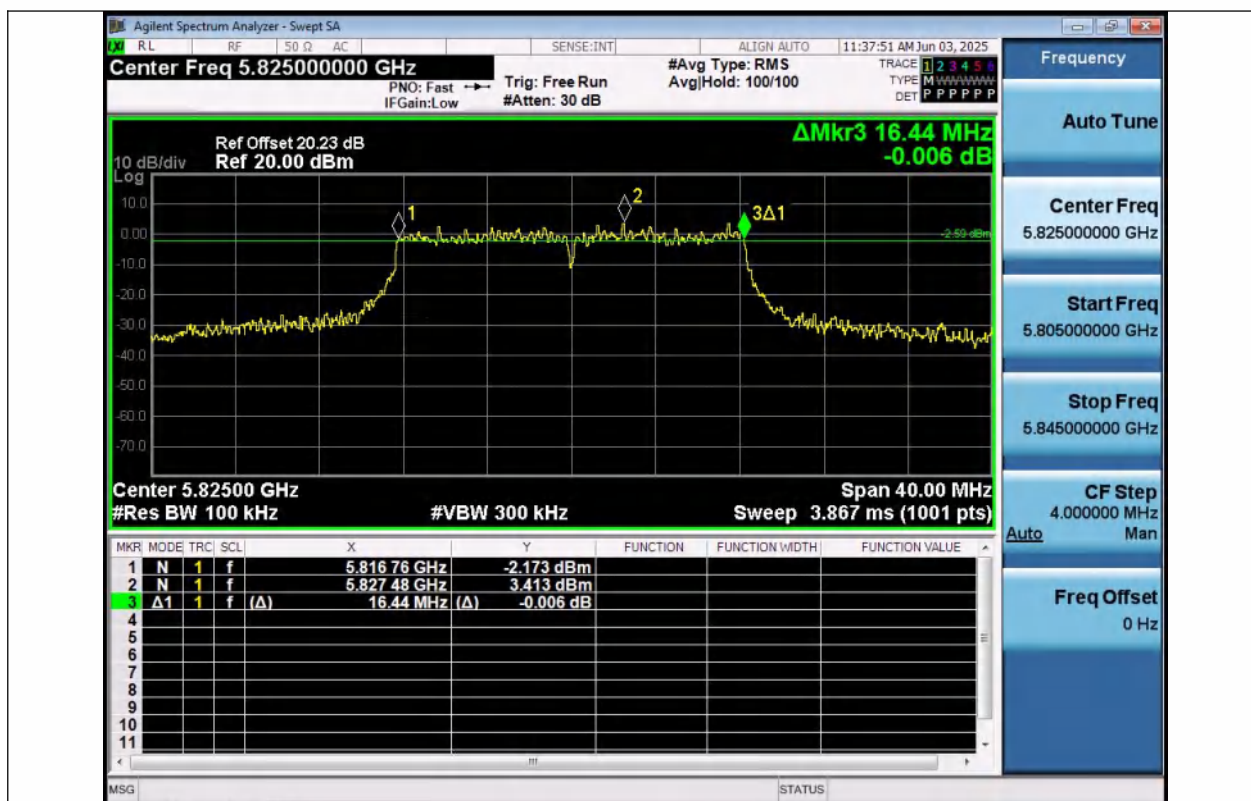
Min emission bandwidth



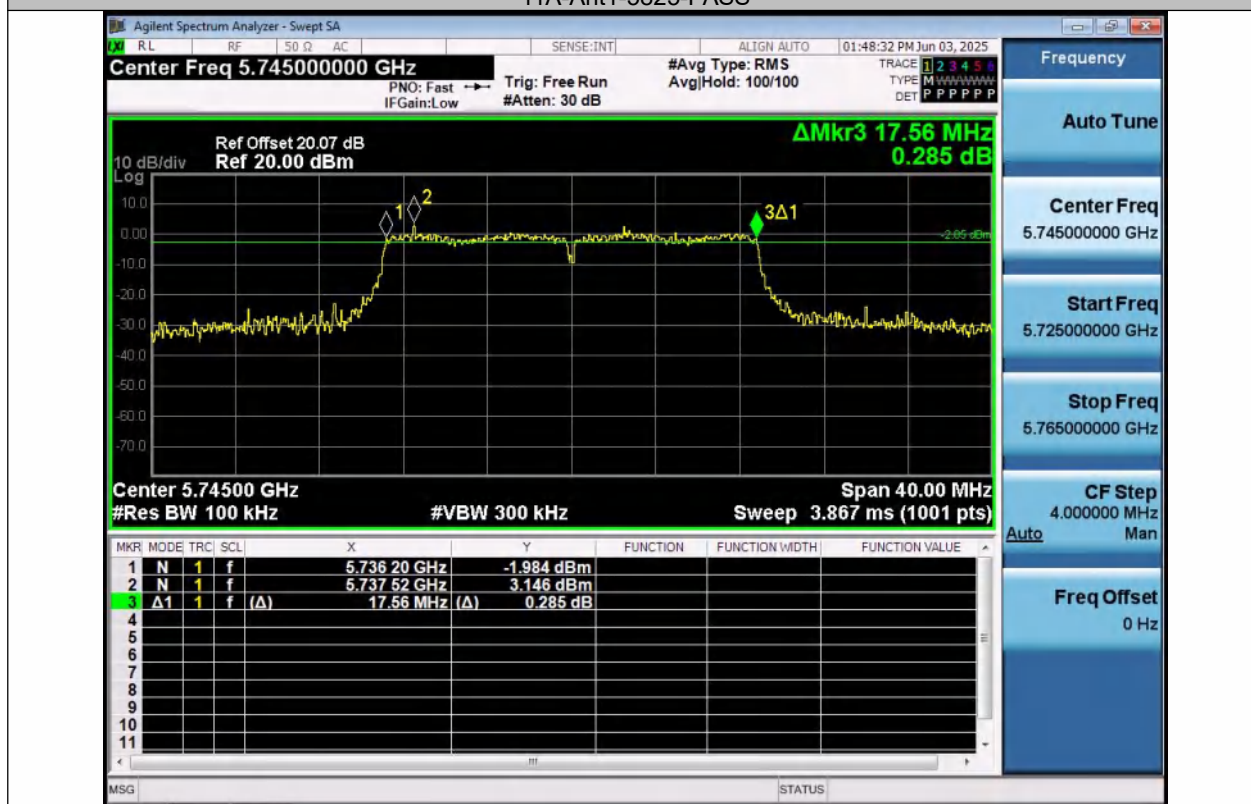
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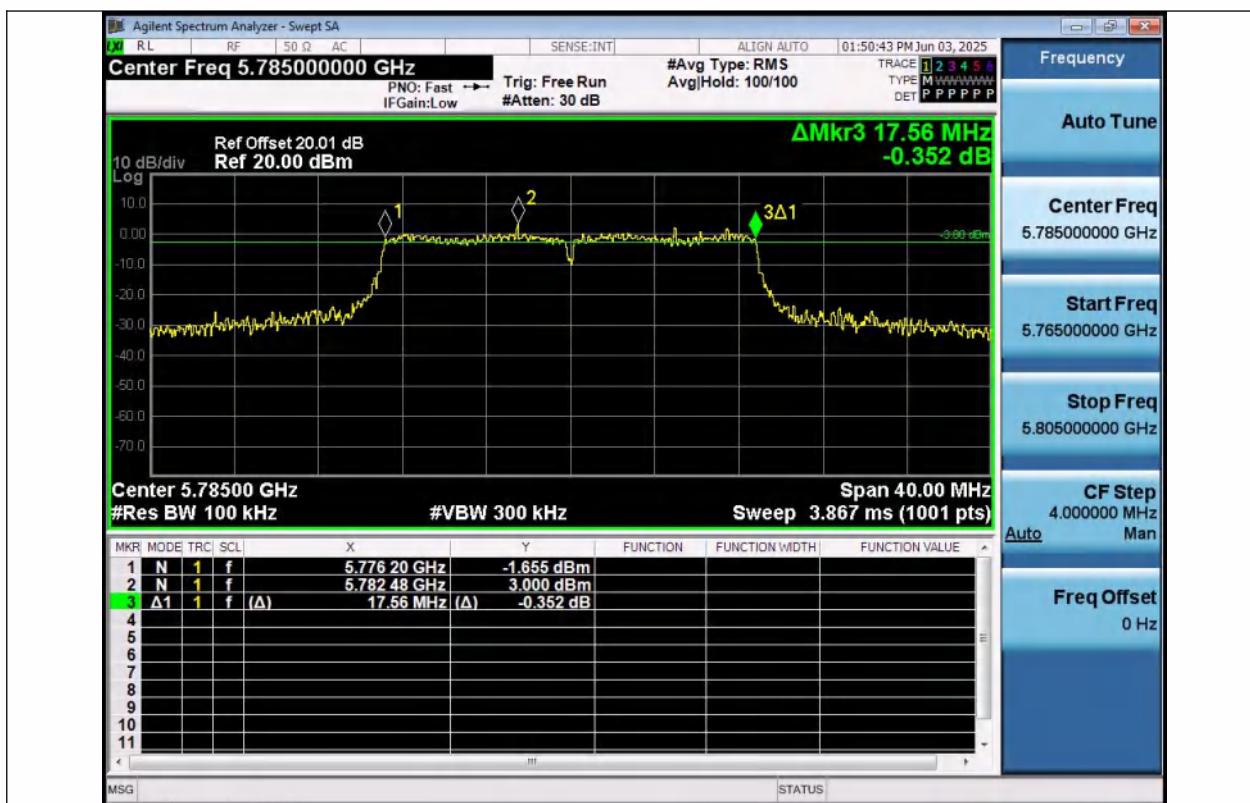
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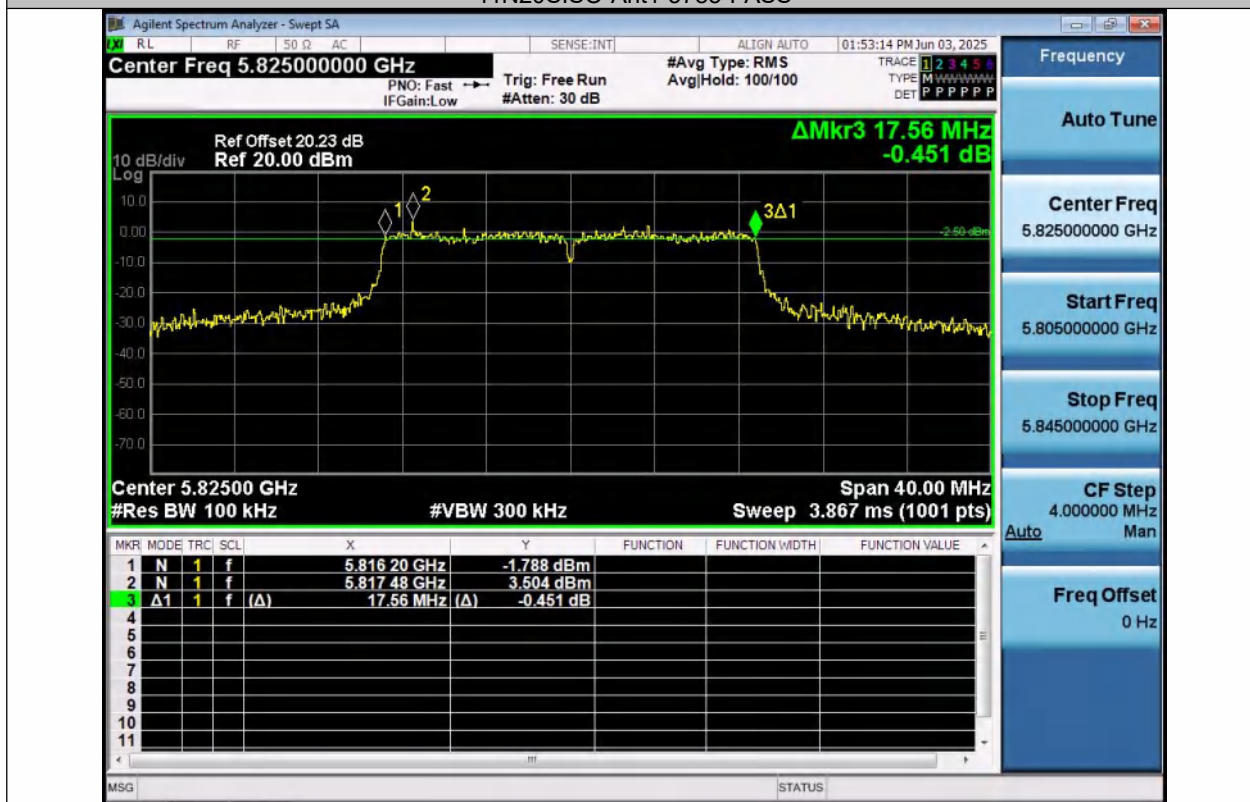
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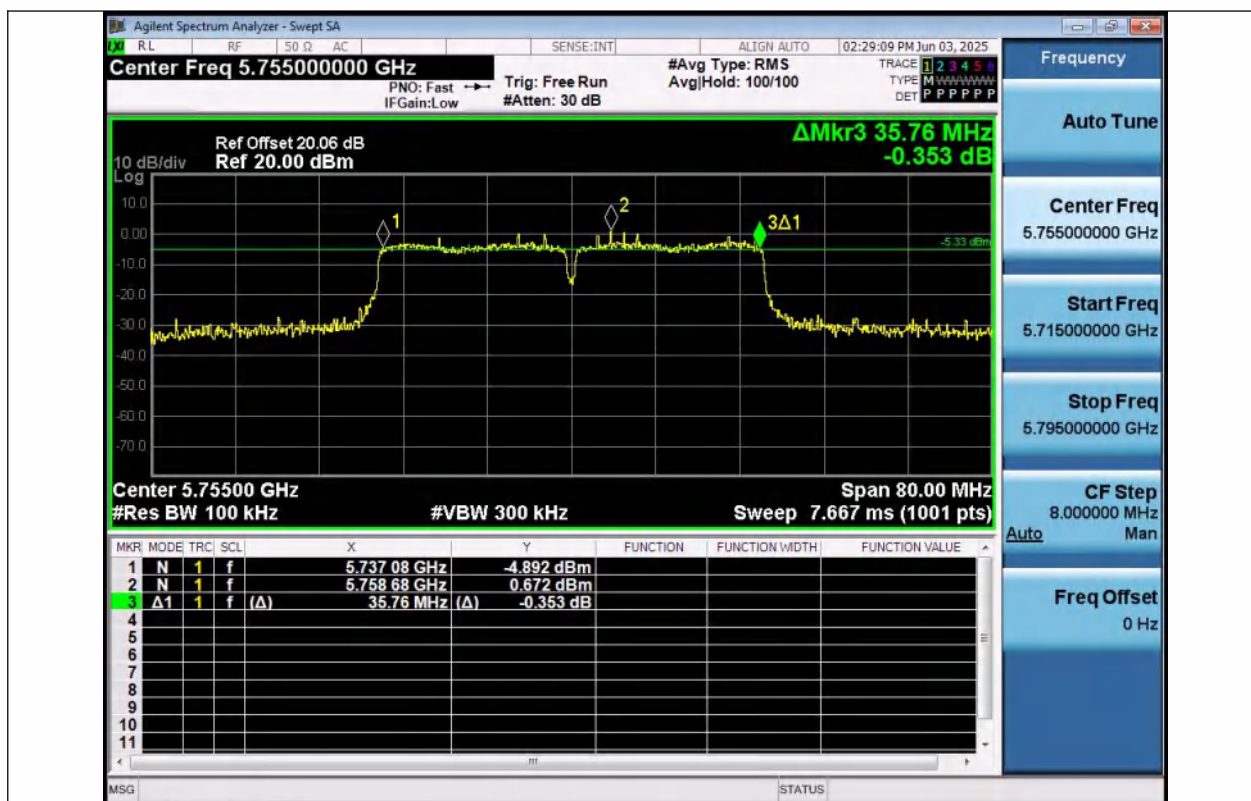
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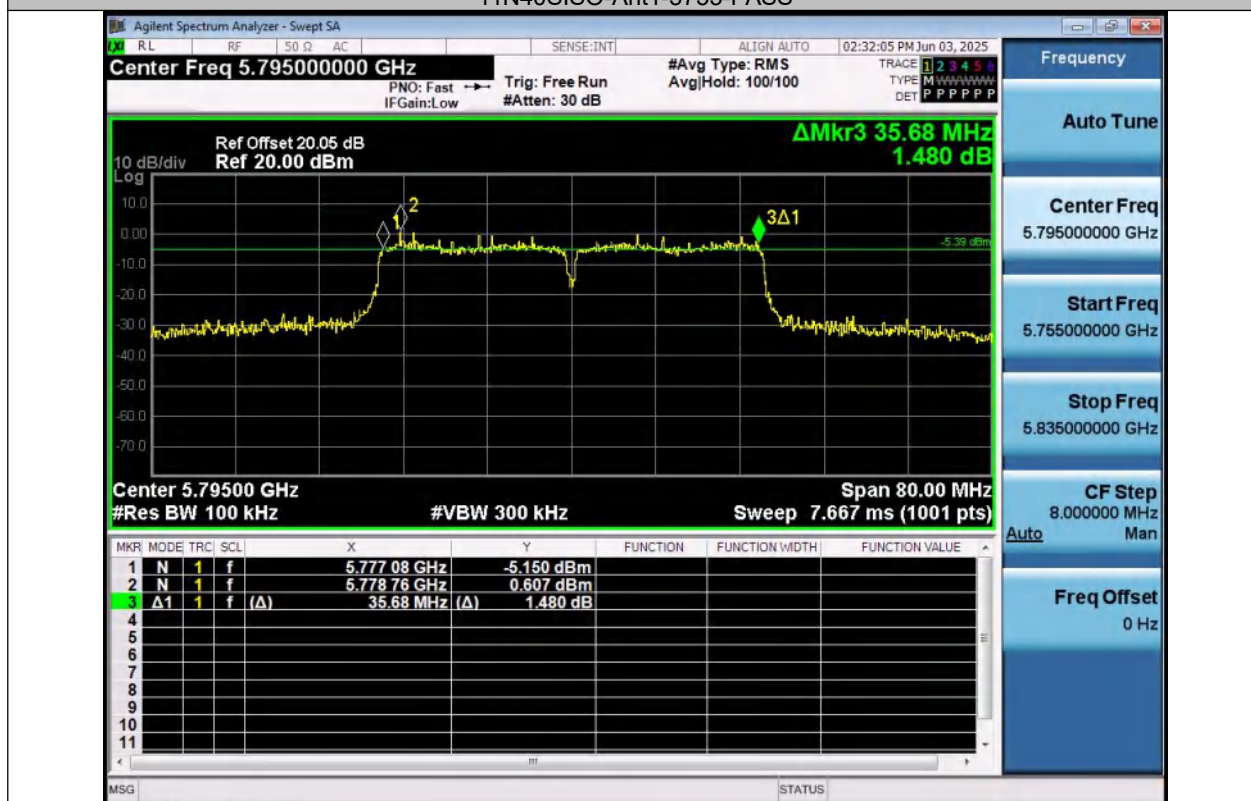
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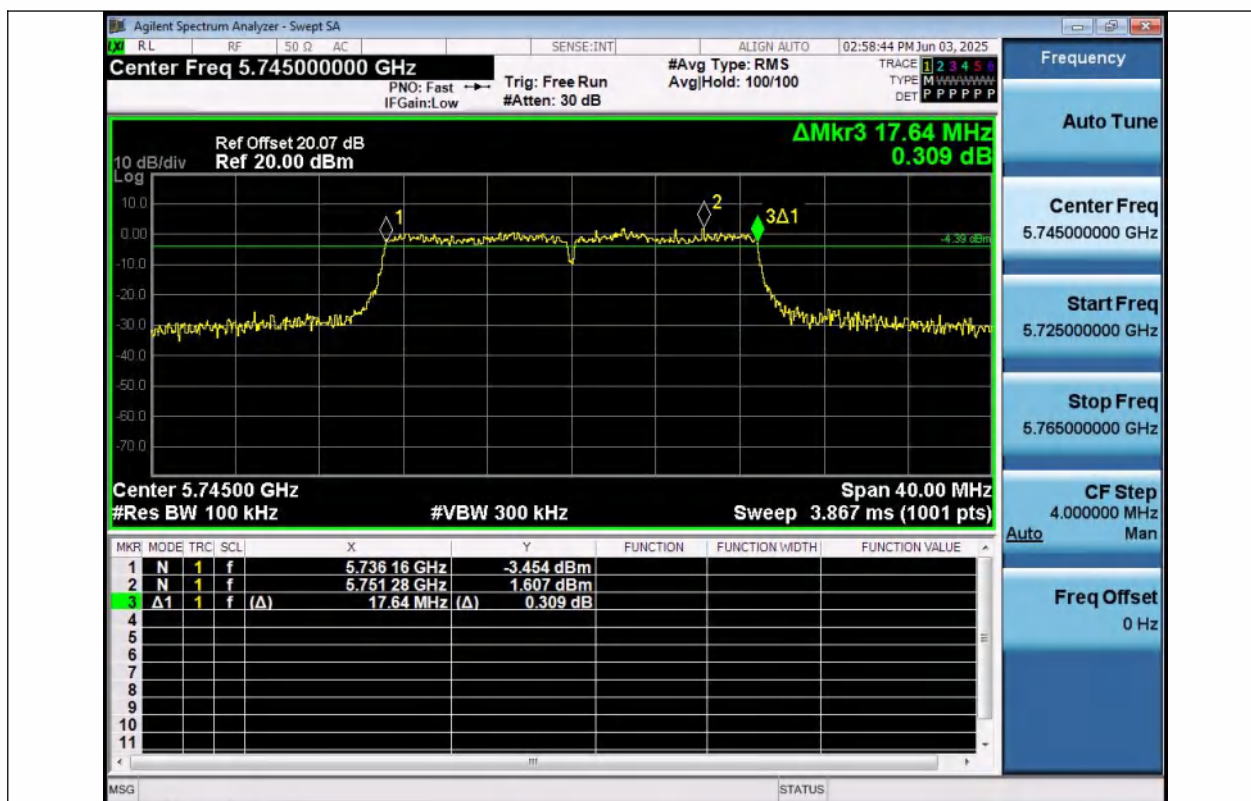
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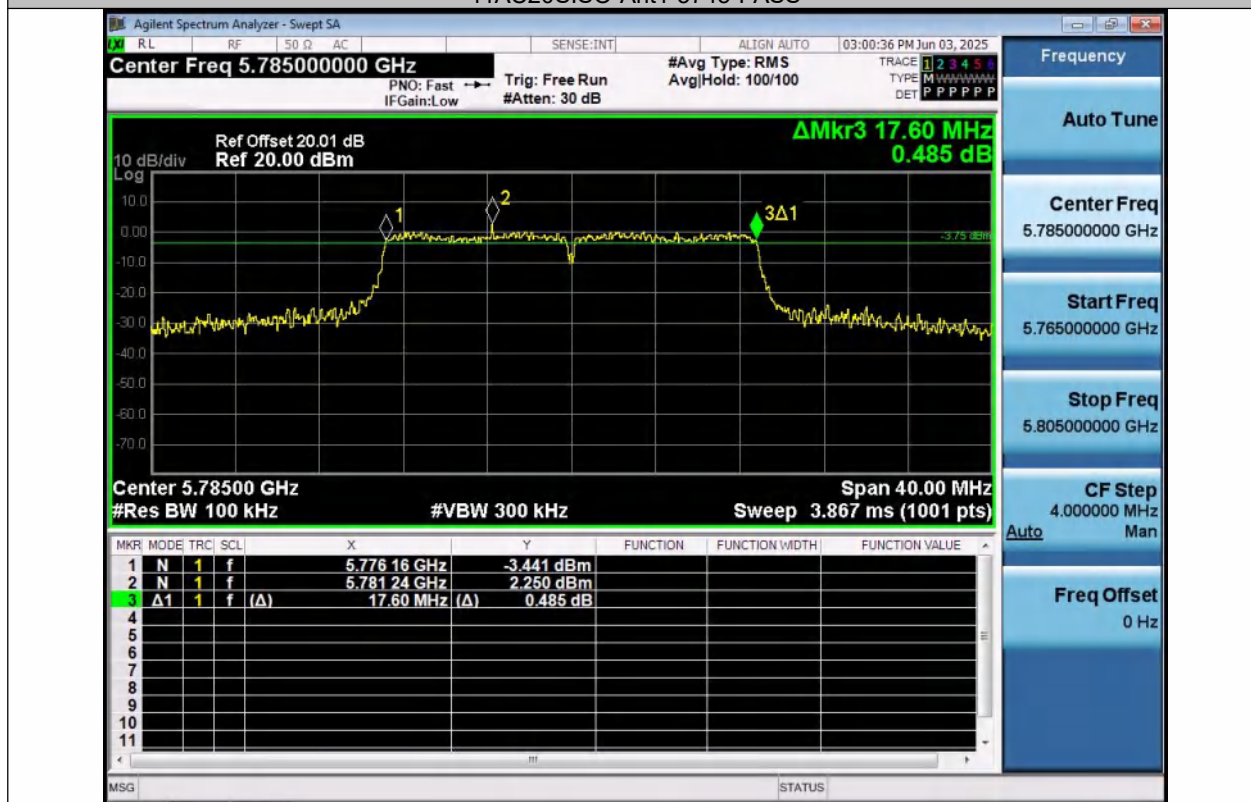
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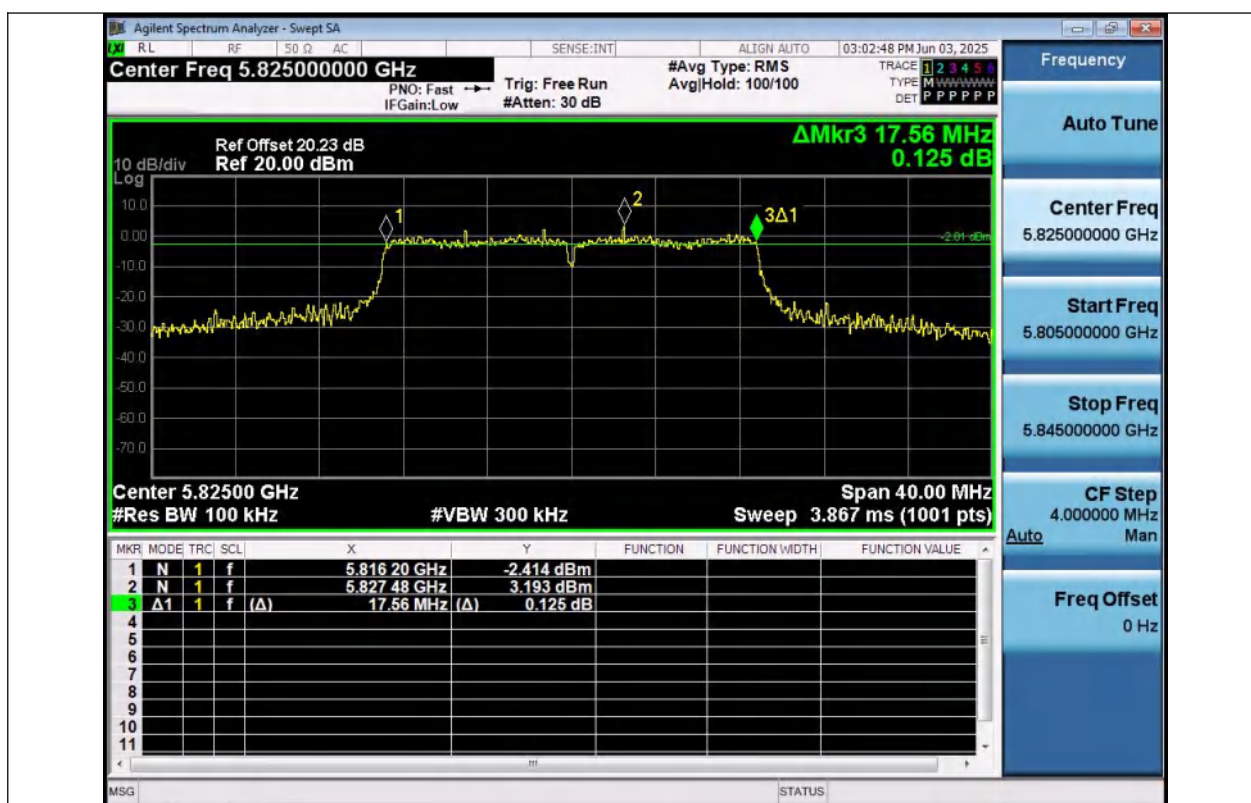
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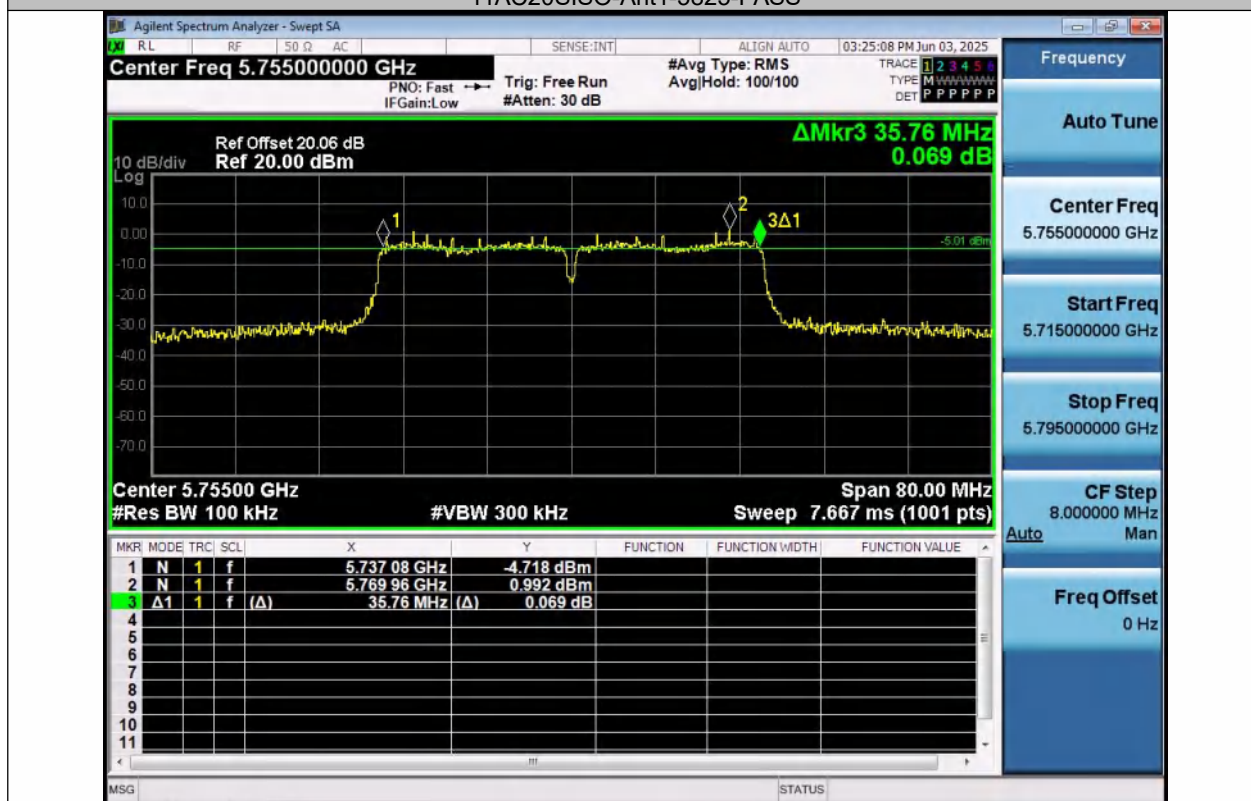
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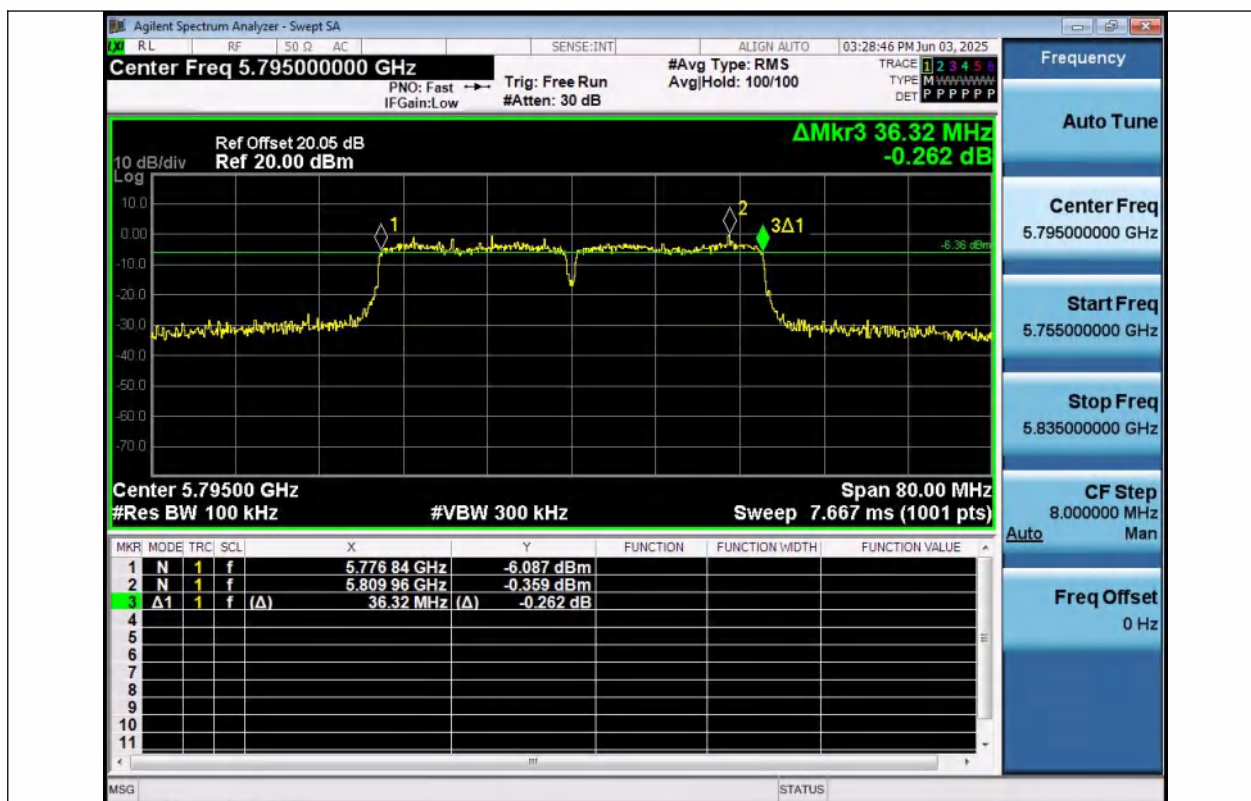
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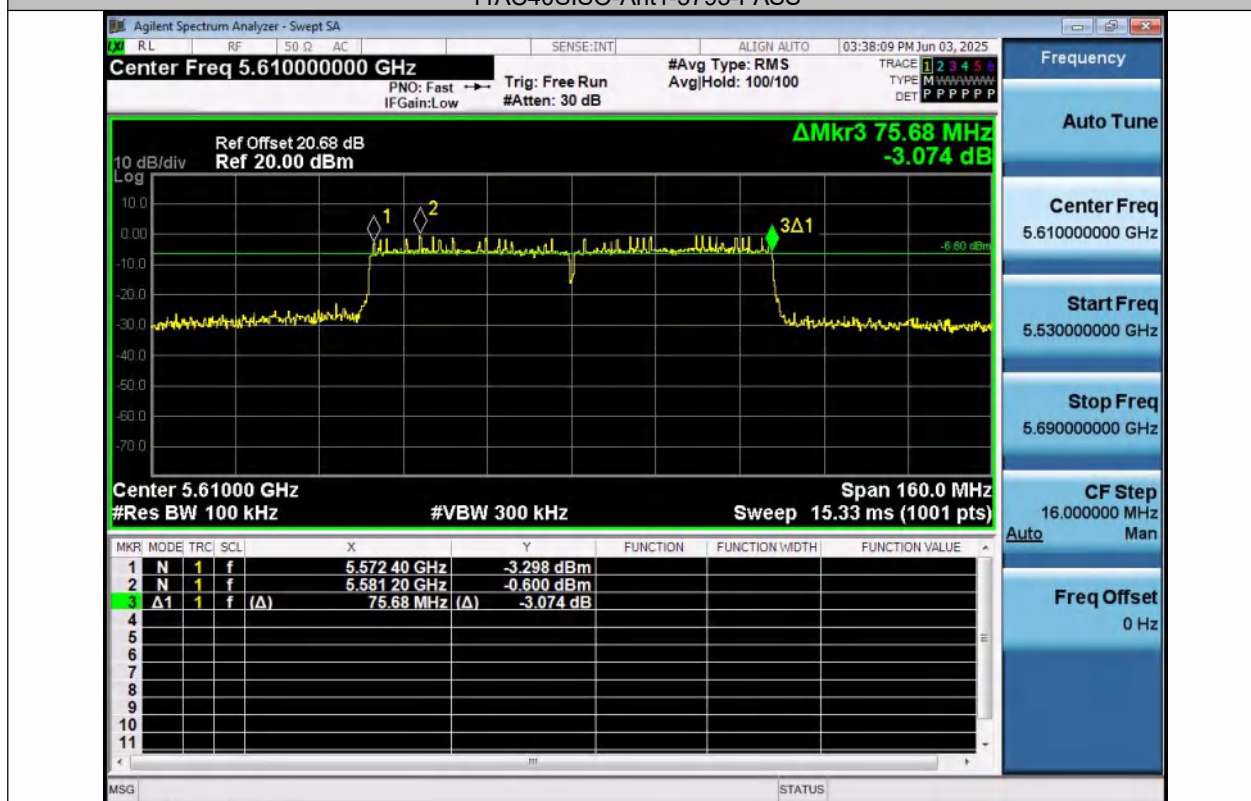
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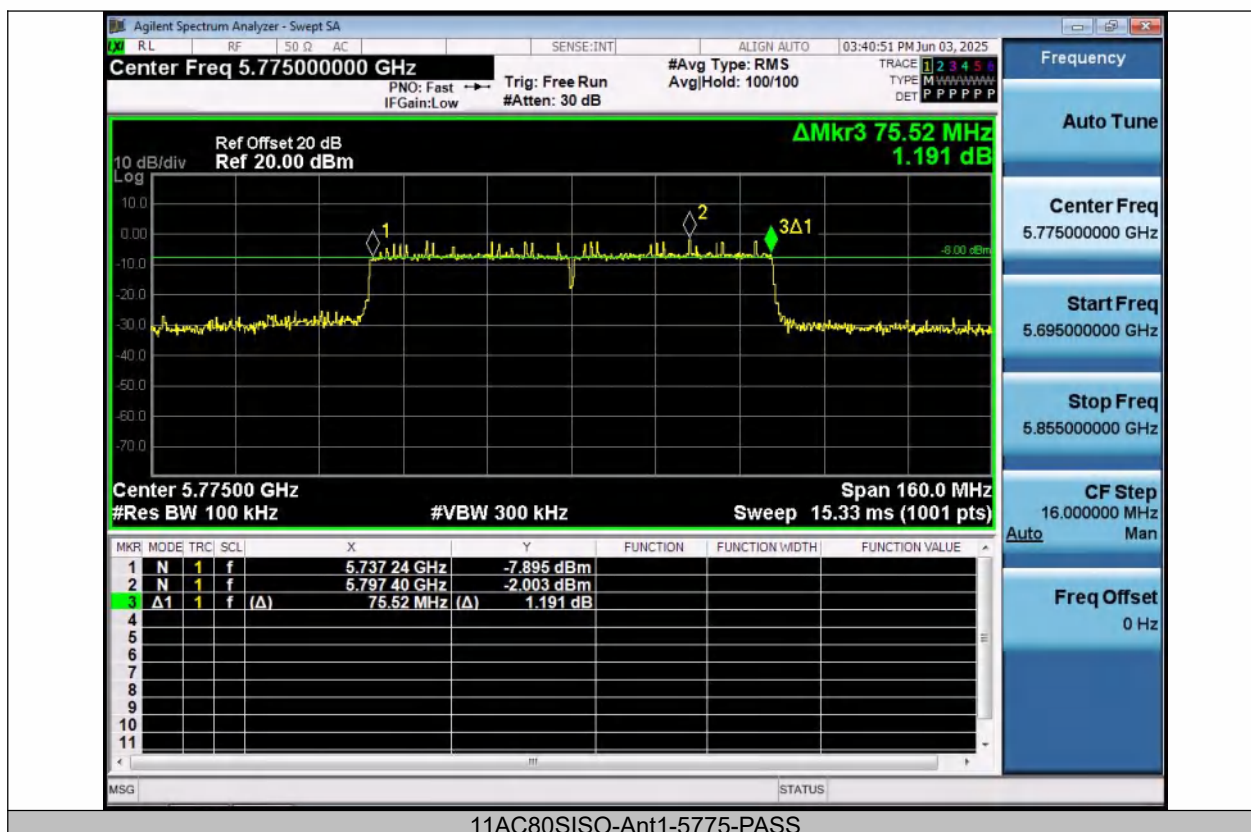
11AC40SISO-Ant1-5755-PASS



11AC40SISO-Ant1-5795-PASS



11AC80SISO-Ant1-5610-PASS



8.2 MAXIMUM CONDUCTED OUTPUT POWER

8.2.1 Applicable Standard

According to FCC Part 15.407(a)(1) for UNII Band I

According to FCC Part 15.407(a)(2) for UNII Band II-A and UNII Band II-C

According to FCC Part 15.407(a)(3) for UNII Band III

According to 789033 D02 Section II(E)

8.2.2 Conformance Limit

■ For the band 5.15-5.25 GHz,

(a) (1) (i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(a) (1) (ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(a) (1) (iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(a) (1) (iv) For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

■ For the 5.25-5.35 GHz and 5.47-5.725 GHz bands

(a) (2) The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

■ For the band 5.725-5.85 GHz

(a) (3) for the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30

dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations

8.2.3 Test Configuration

Test according to clause 6.1 radio frequency test setup

8.2.4 Test Procedure

The maximum average conducted output power can be measured using Method PM-G (Measurement using a gated RF average power meter):

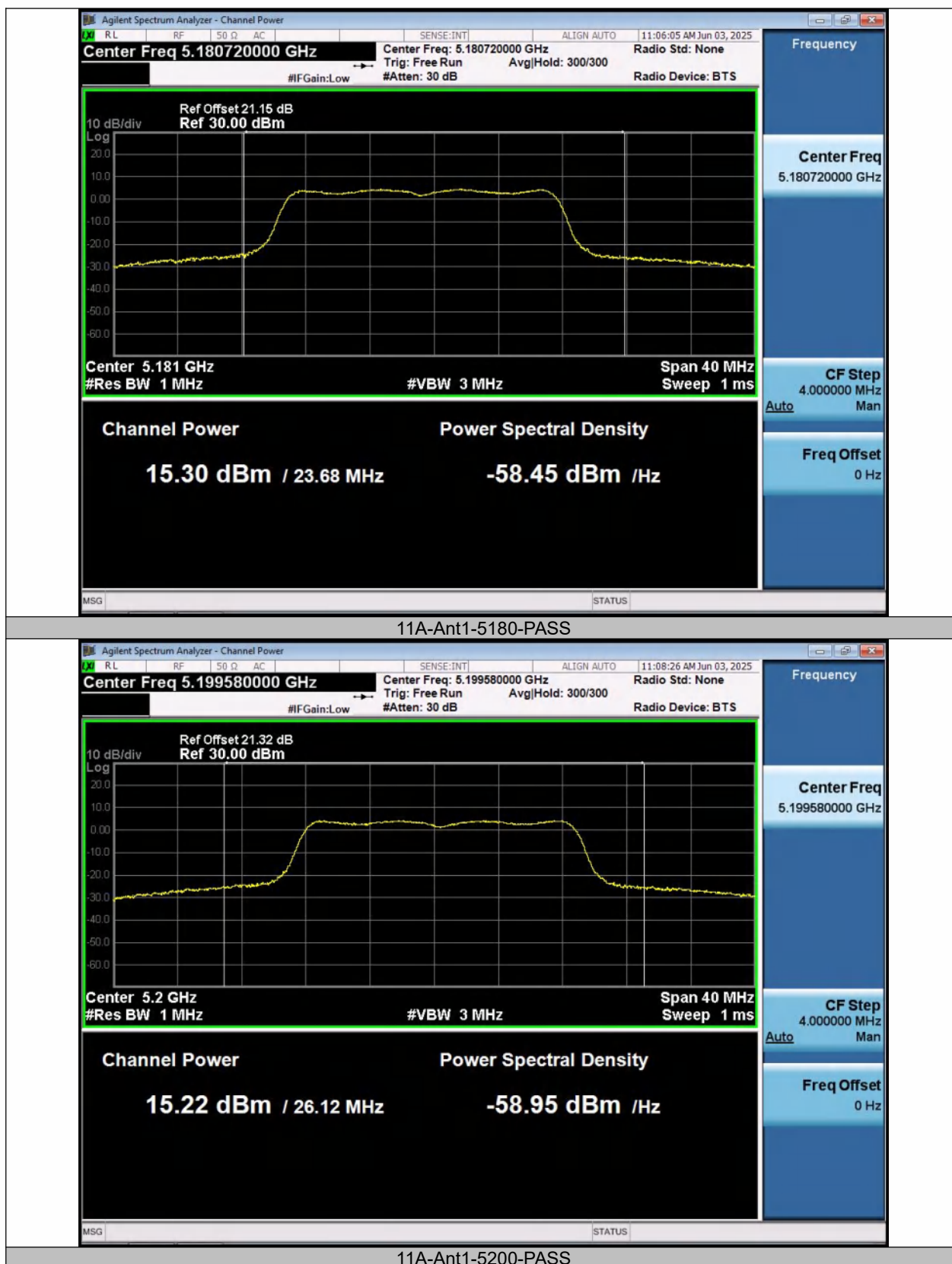
Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

- a. The Transmitter output (antenna port) was connected to the power meter.
- b. Turn on the EUT and power meter and then record the power value.
- c. Repeat above procedures on all channels needed to be tested.

8.2.5 Test Results

Test Mode	Antenna	Frequency[MHz]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
11A	Ant1	5180	78.26	1.06	15.30	≤23.98	3.82	19.12	---	PASS
11A	Ant1	5200	76.60	1.16	15.22	≤23.98	3.82	19.04	---	PASS
11A	Ant1	5240	78.26	1.06	15.07	≤23.98	3.82	18.89	---	PASS
11A	Ant1	5260	77.08	1.13	15.14	≤23.98	3.82	18.96	---	PASS
11A	Ant1	5280	76.60	1.16	15.07	≤23.98	3.82	18.89	---	PASS
11A	Ant1	5320	78.26	1.06	15.01	≤23.98	3.82	18.83	---	PASS
11A	Ant1	5500	76.60	1.16	15.56	≤23.94	3.82	19.38	---	PASS
11A	Ant1	5580	78.26	1.06	16.10	≤23.90	3.82	19.92	---	PASS
11A	Ant1	5700	78.26	1.06	14.57	≤23.85	3.82	18.39	---	PASS
11A	Ant1	5745	78.26	1.06	14.35	≤30.00	3.82	18.17	---	PASS
11A	Ant1	5785	78.26	1.06	14.09	≤30.00	3.82	17.91	---	PASS
11A	Ant1	5825	78.26	1.06	14.02	≤30.00	3.82	17.84	---	PASS
11N20SISO	Ant1	5180	97.54	0.11	15.27	≤23.98	3.82	19.09	---	PASS
11N20SISO	Ant1	5200	97.95	0.09	15.15	≤23.98	3.82	18.97	---	PASS
11N20SISO	Ant1	5240	97.95	0.09	15.09	≤23.98	3.82	18.91	---	PASS
11N20SISO	Ant1	5260	97.75	0.10	15.08	≤23.98	3.82	18.90	---	PASS
11N20SISO	Ant1	5280	97.74	0.10	15.02	≤23.98	3.82	18.84	---	PASS
11N20SISO	Ant1	5320	97.75	0.10	15.07	≤23.98	3.82	18.89	---	PASS
11N20SISO	Ant1	5500	97.74	0.10	15.51	≤23.98	3.82	19.33	---	PASS
11N20SISO	Ant1	5580	97.95	0.09	16.13	≤23.98	3.82	19.95	---	PASS
11N20SISO	Ant1	5700	97.94	0.09	14.66	≤23.98	3.82	18.48	---	PASS
11N20SISO	Ant1	5745	97.74	0.10	14.73	≤30.00	3.82	18.55	---	PASS
11N20SISO	Ant1	5785	97.95	0.09	14.54	≤30.00	3.82	18.36	---	PASS
11N20SISO	Ant1	5825	97.95	0.09	14.25	≤30.00	3.82	18.07	---	PASS
11N40SISO	Ant1	5190	95.45	0.20	15.07	≤23.98	3.82	18.89	---	PASS
11N40SISO	Ant1	5230	95.45	0.20	15.21	≤23.98	3.82	19.03	---	PASS
11N40SISO	Ant1	5270	95.45	0.20	15.07	≤23.98	3.82	18.89	---	PASS
11N40SISO	Ant1	5310	95.85	0.18	14.95	≤23.98	3.82	18.77	---	PASS
11N40SISO	Ant1	5510	95.45	0.20	15.64	≤23.98	3.82	19.46	---	PASS
11N40SISO	Ant1	5550	95.45	0.20	15.99	≤23.98	3.82	19.81	---	PASS
11N40SISO	Ant1	5670	95.45	0.20	14.99	≤23.98	3.82	18.81	---	PASS
11N40SISO	Ant1	5755	95.45	0.20	14.50	≤30.00	3.82	18.32	---	PASS
11N40SISO	Ant1	5795	95.47	0.20	14.17	≤30.00	3.82	17.99	---	PASS
11AC20SISO	Ant1	5180	97.95	0.09	15.19	≤23.98	3.82	19.01	---	PASS
11AC20SISO	Ant1	5200	97.95	0.09	15.04	≤23.98	3.82	18.86	---	PASS

11AC20SI SO	Ant1	5240	97.95	0.09	15.17	≤23.98	3.82	18.99	---	PASS
11AC20SI SO	Ant1	5260	97.95	0.09	15.17	≤23.98	3.82	18.99	---	PASS
11AC20SI SO	Ant1	5280	97.95	0.09	15.09	≤23.98	3.82	18.91	---	PASS
11AC20SI SO	Ant1	5320	97.95	0.09	14.99	≤23.98	3.82	18.81	---	PASS
11AC20SI SO	Ant1	5500	97.95	0.09	15.53	≤23.98	3.82	19.35	---	PASS
11AC20SI SO	Ant1	5580	97.95	0.09	16.21	≤23.98	3.82	20.03	---	PASS
11AC20SI SO	Ant1	5700	97.75	0.10	14.73	≤23.98	3.82	18.55	---	PASS
11AC20SI SO	Ant1	5745	97.95	0.09	14.59	≤30.00	3.82	18.41	---	PASS
11AC20SI SO	Ant1	5785	97.95	0.09	14.33	≤30.00	3.82	18.15	---	PASS
11AC20SI SO	Ant1	5825	97.95	0.09	14.18	≤30.00	3.82	18.00	---	PASS
11AC40SI SO	Ant1	5190	95.47	0.20	15.00	≤23.98	3.82	18.82	---	PASS
11AC40SI SO	Ant1	5230	95.87	0.18	15.13	≤23.98	3.82	18.95	---	PASS
11AC40SI SO	Ant1	5270	95.87	0.18	15.02	≤23.98	3.82	18.84	---	PASS
11AC40SI SO	Ant1	5310	95.47	0.20	14.89	≤23.98	3.82	18.71	---	PASS
11AC40SI SO	Ant1	5510	95.87	0.18	15.54	≤23.98	3.82	19.36	---	PASS
11AC40SI SO	Ant1	5550	95.87	0.18	15.89	≤23.98	3.82	19.71	---	PASS
11AC40SI SO	Ant1	5670	95.87	0.18	14.86	≤23.98	3.82	18.68	---	PASS
11AC40SI SO	Ant1	5755	95.47	0.20	14.49	≤30.00	3.82	18.31	---	PASS
11AC40SI SO	Ant1	5795	95.47	0.20	14.15	≤30.00	3.82	17.97	---	PASS
11AC80SI SO	Ant1	5210	90.83	0.42	14.96	≤23.98	3.82	18.78	---	PASS
11AC80SI SO	Ant1	5290	90.83	0.42	14.81	≤23.98	3.82	18.63	---	PASS
11AC80SI SO	Ant1	5530	90.83	0.42	15.82	≤23.98	3.82	19.64	---	PASS
11AC80SI SO	Ant1	5610	90.83	0.42	16.22	≤23.98	3.82	20.04	---	PASS
11AC80SI SO	Ant1	5775	90.83	0.42	14.41	≤30.00	3.82	18.23	---	PASS





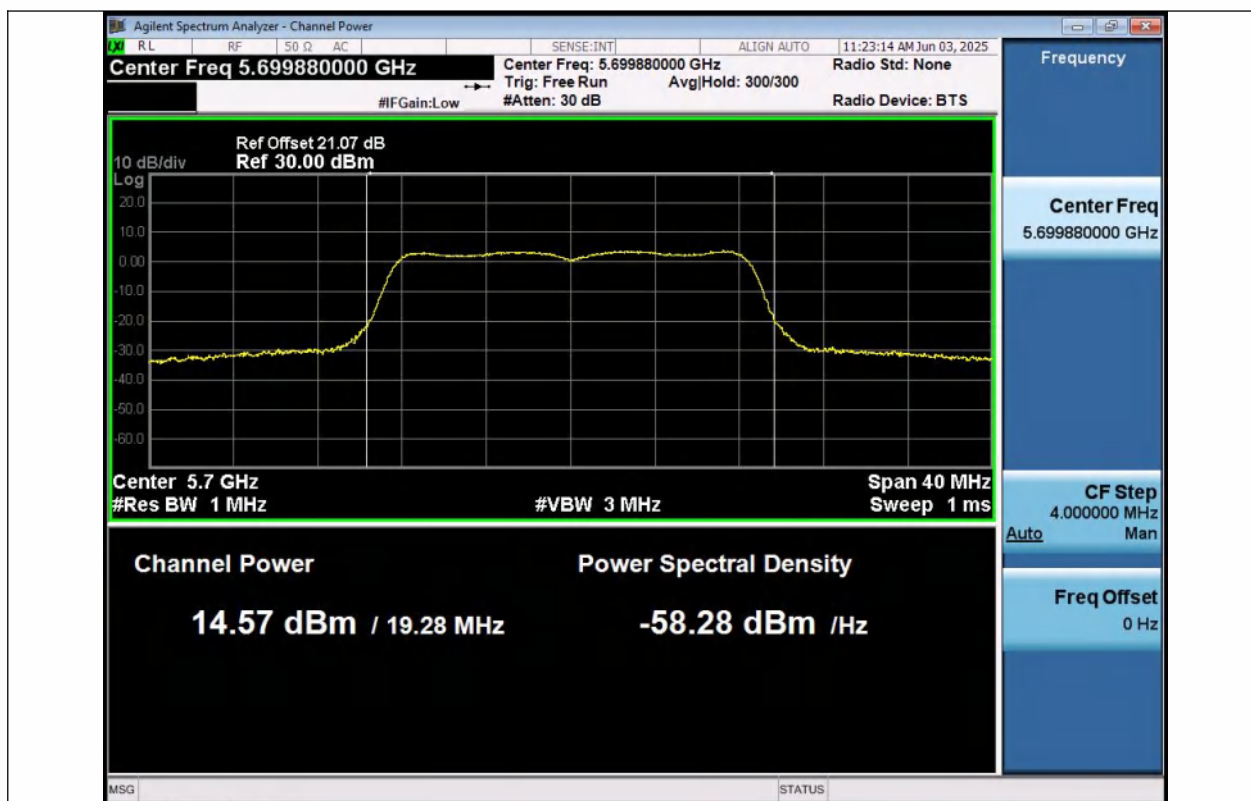


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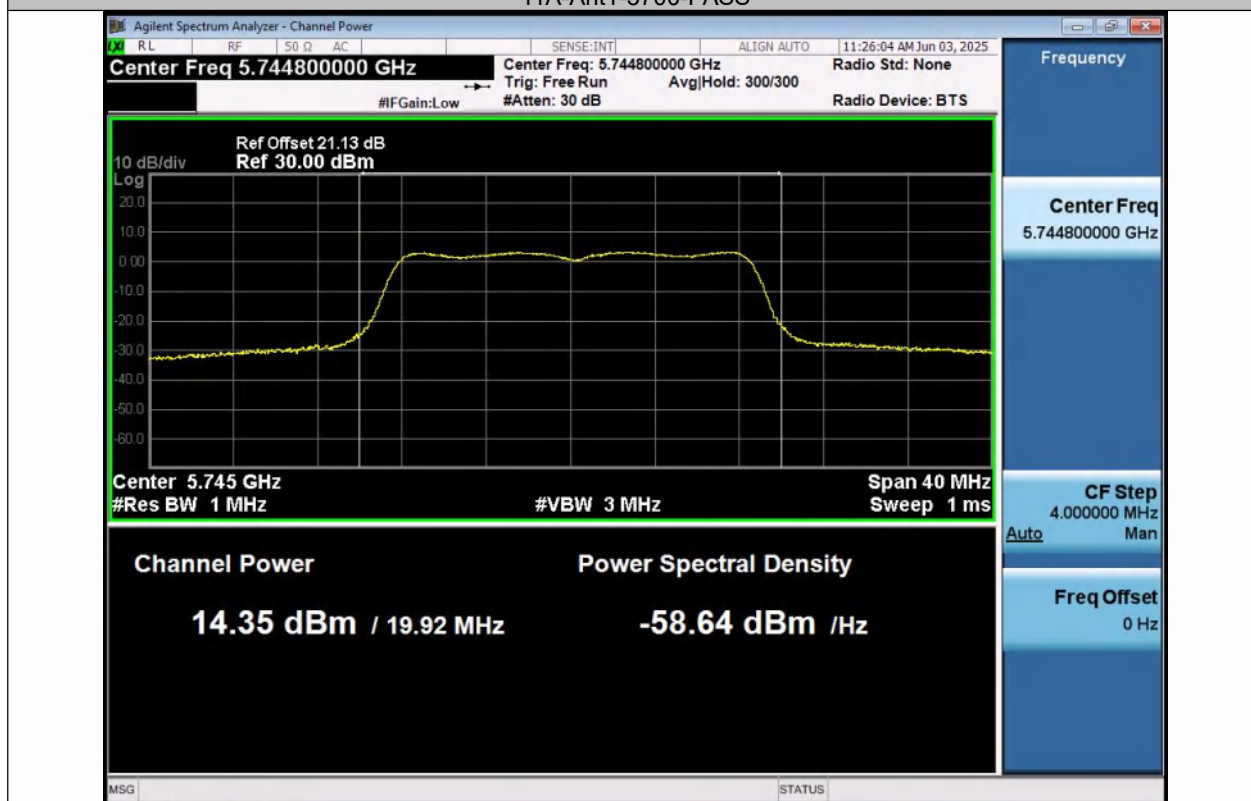


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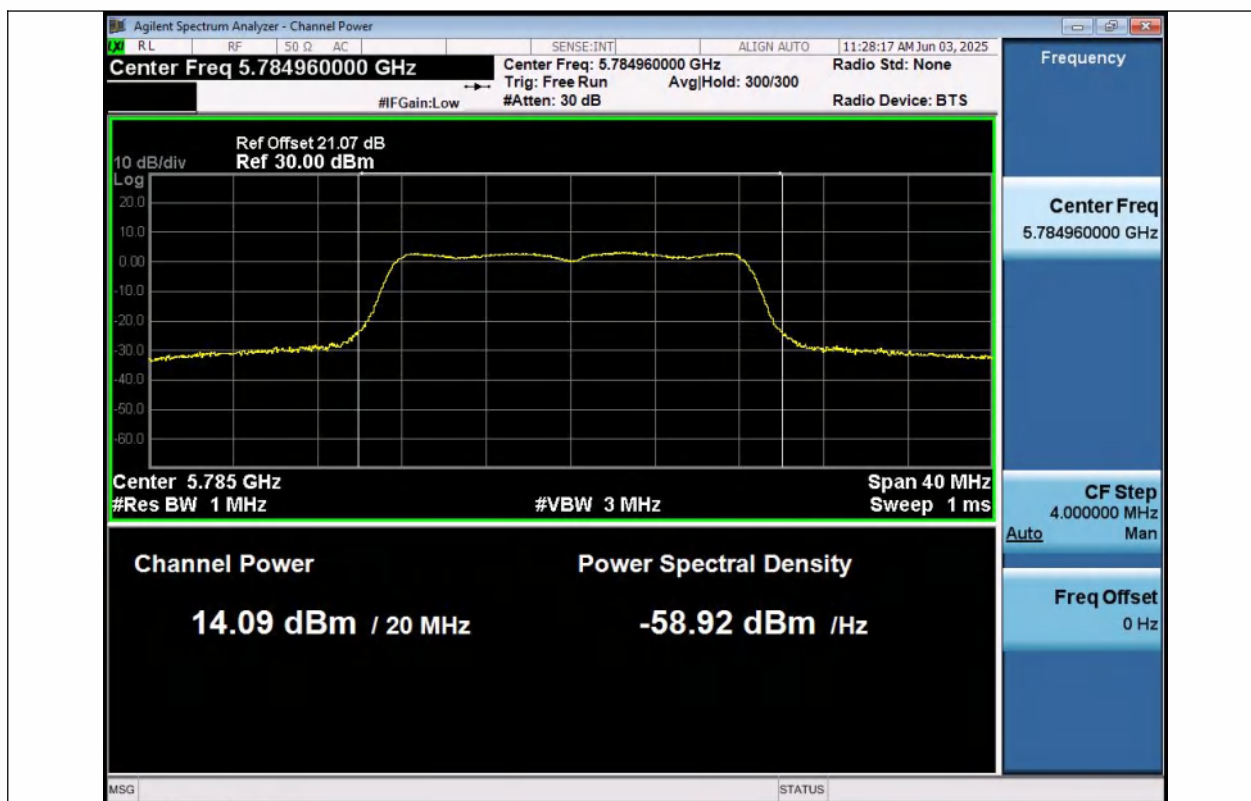




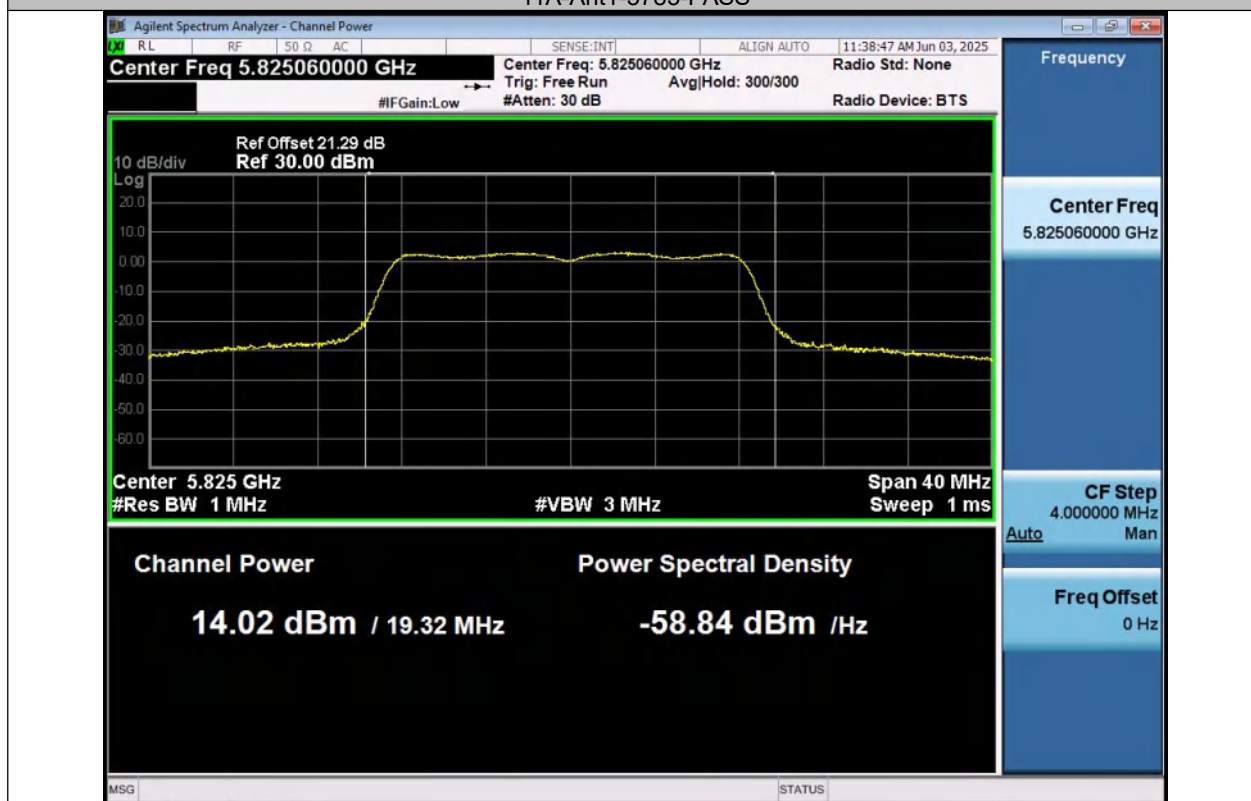
11A-Ant1-5700-PASS



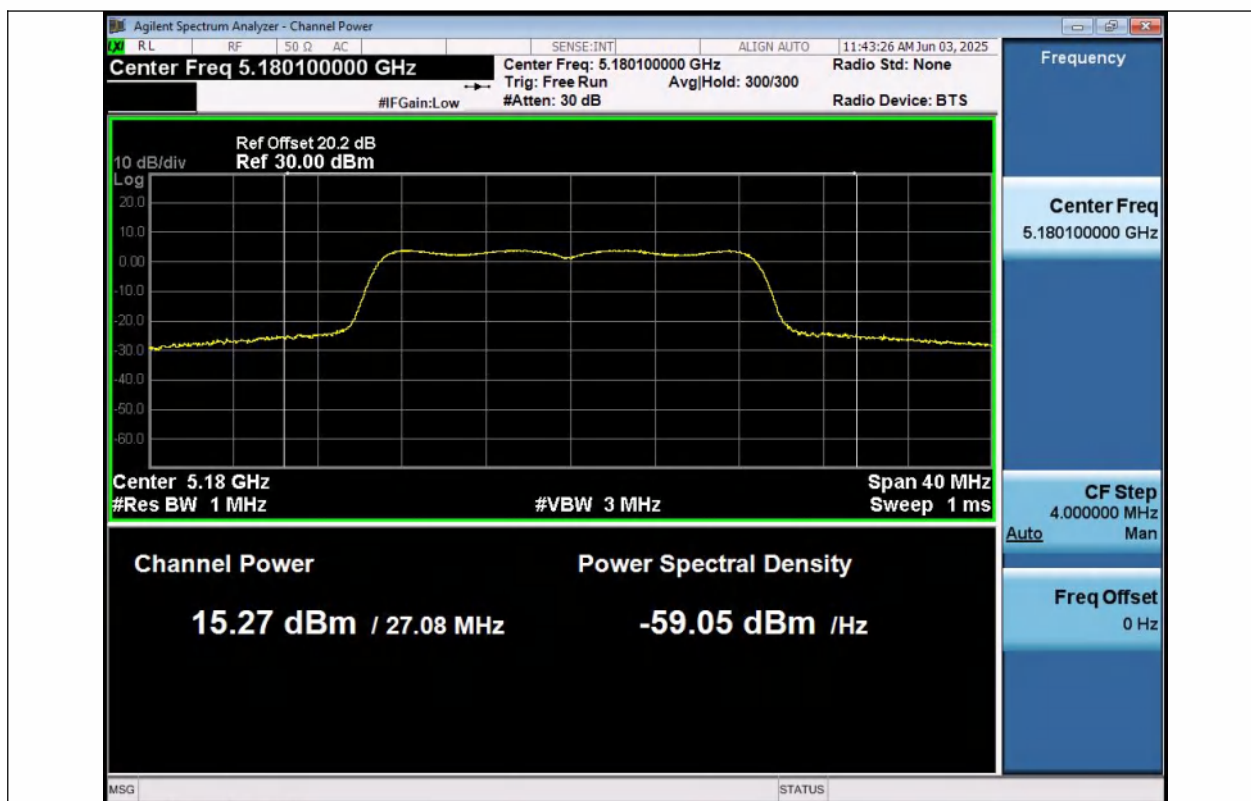
11A-Ant1-5745-PASS



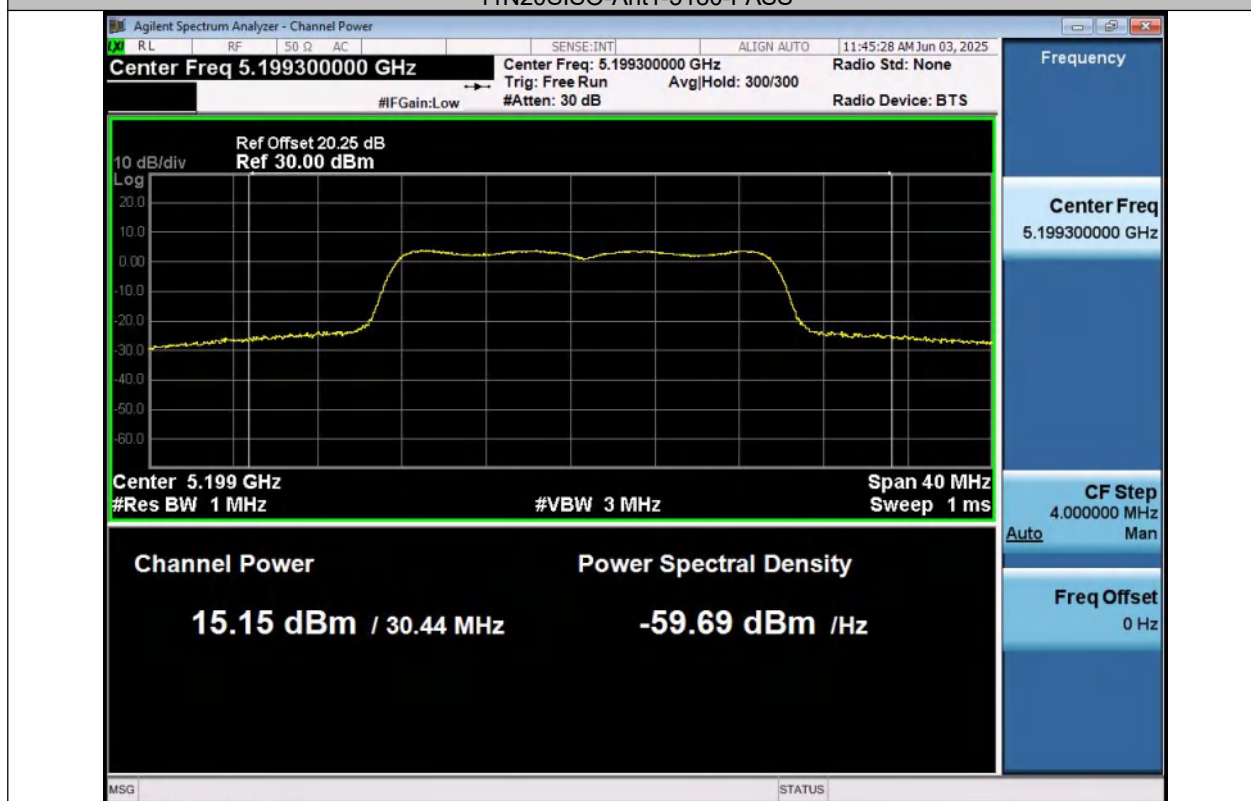
11A-Ant1-5785-PASS



11A-Ant1-5825-PASS



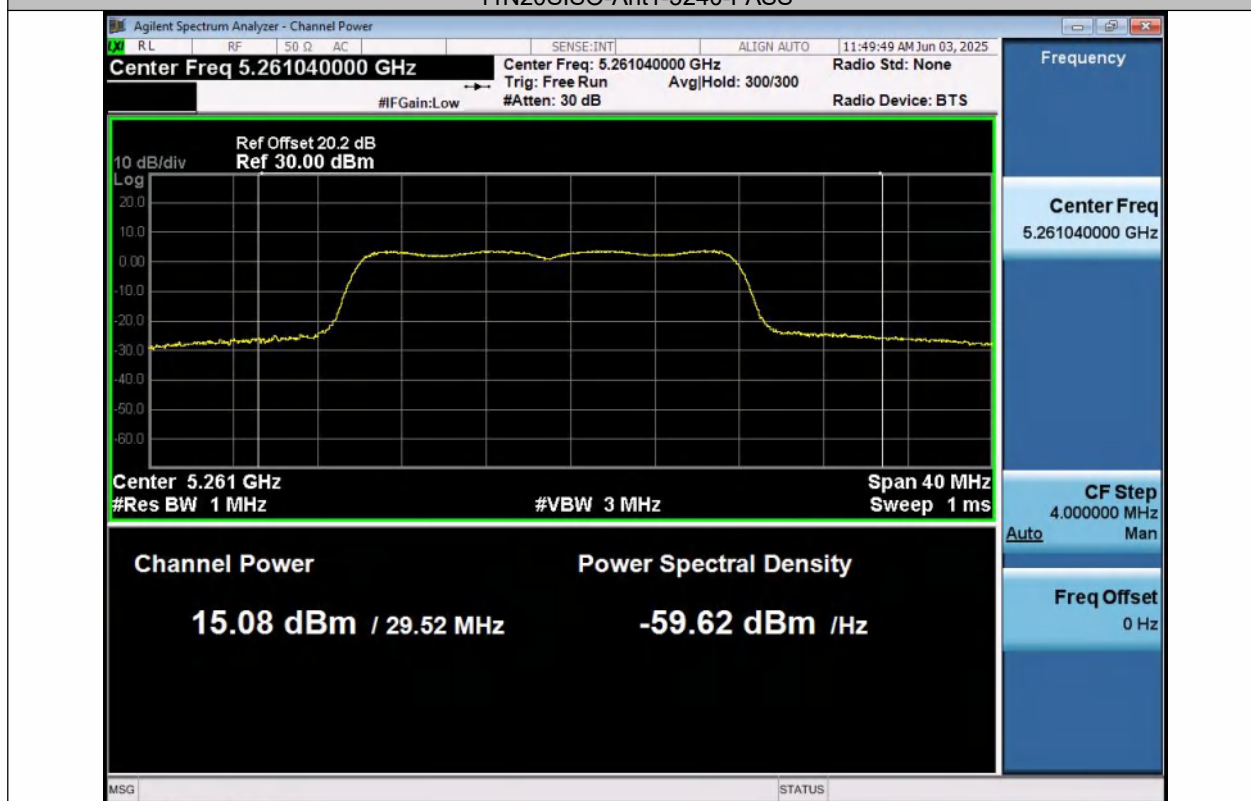
11N20SISO-Ant1-5180-PASS



11N20SISO-Ant1-5200-PASS



11N20SISO-Ant1-5240-PASS



11N20SISO-Ant1-5260-PASS

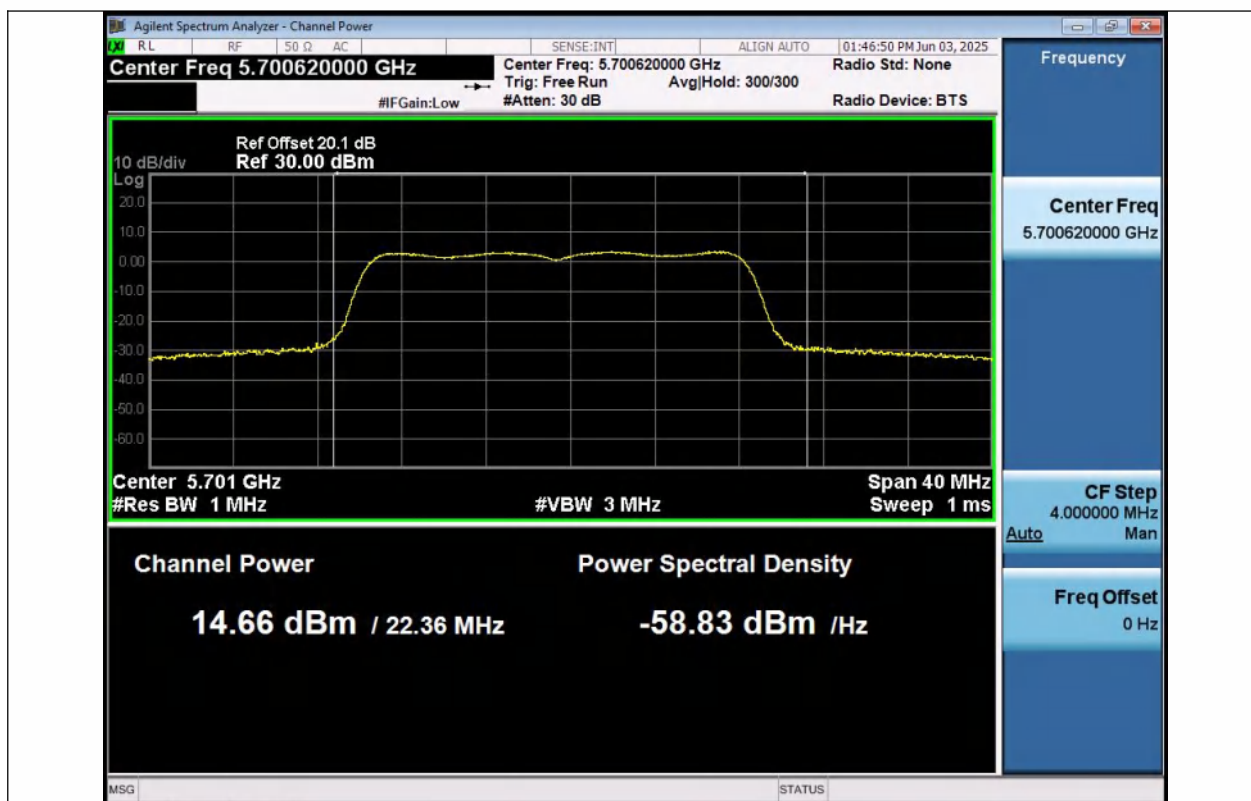


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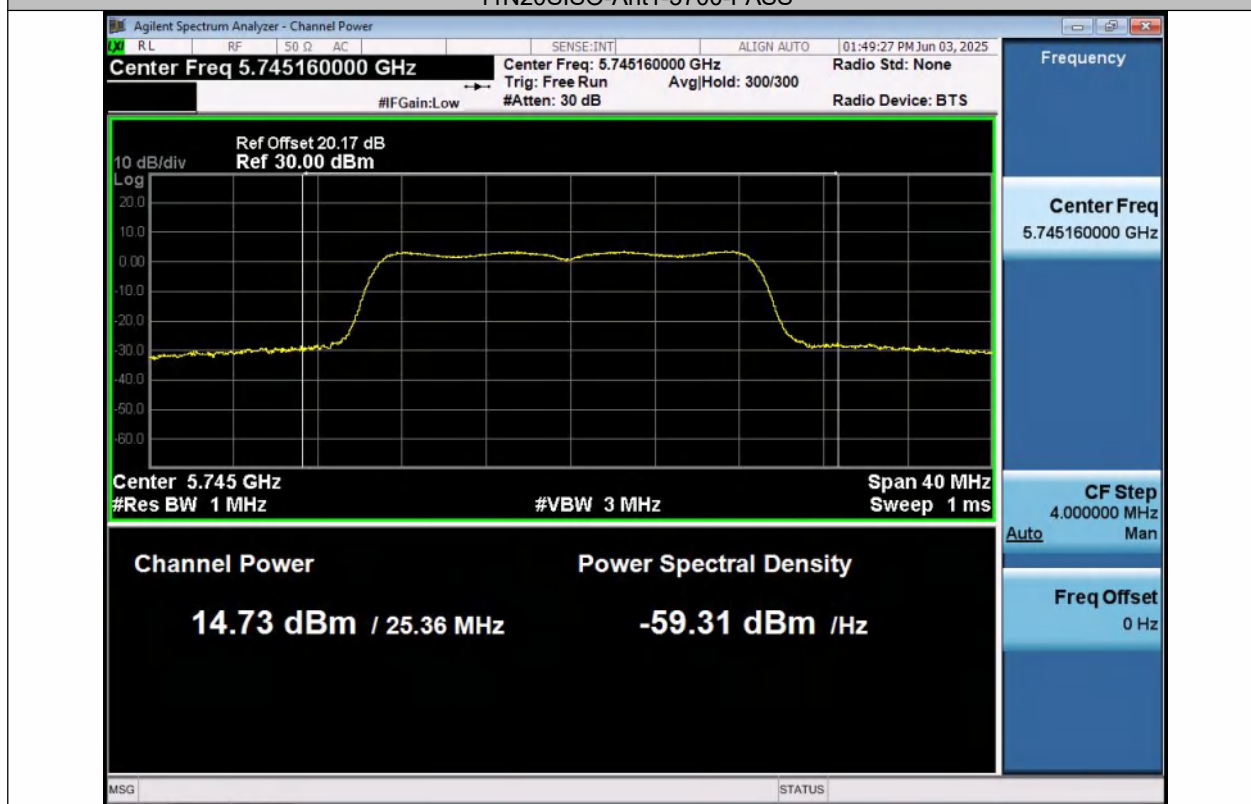


11N20SISO-Ant1-5320-PASS

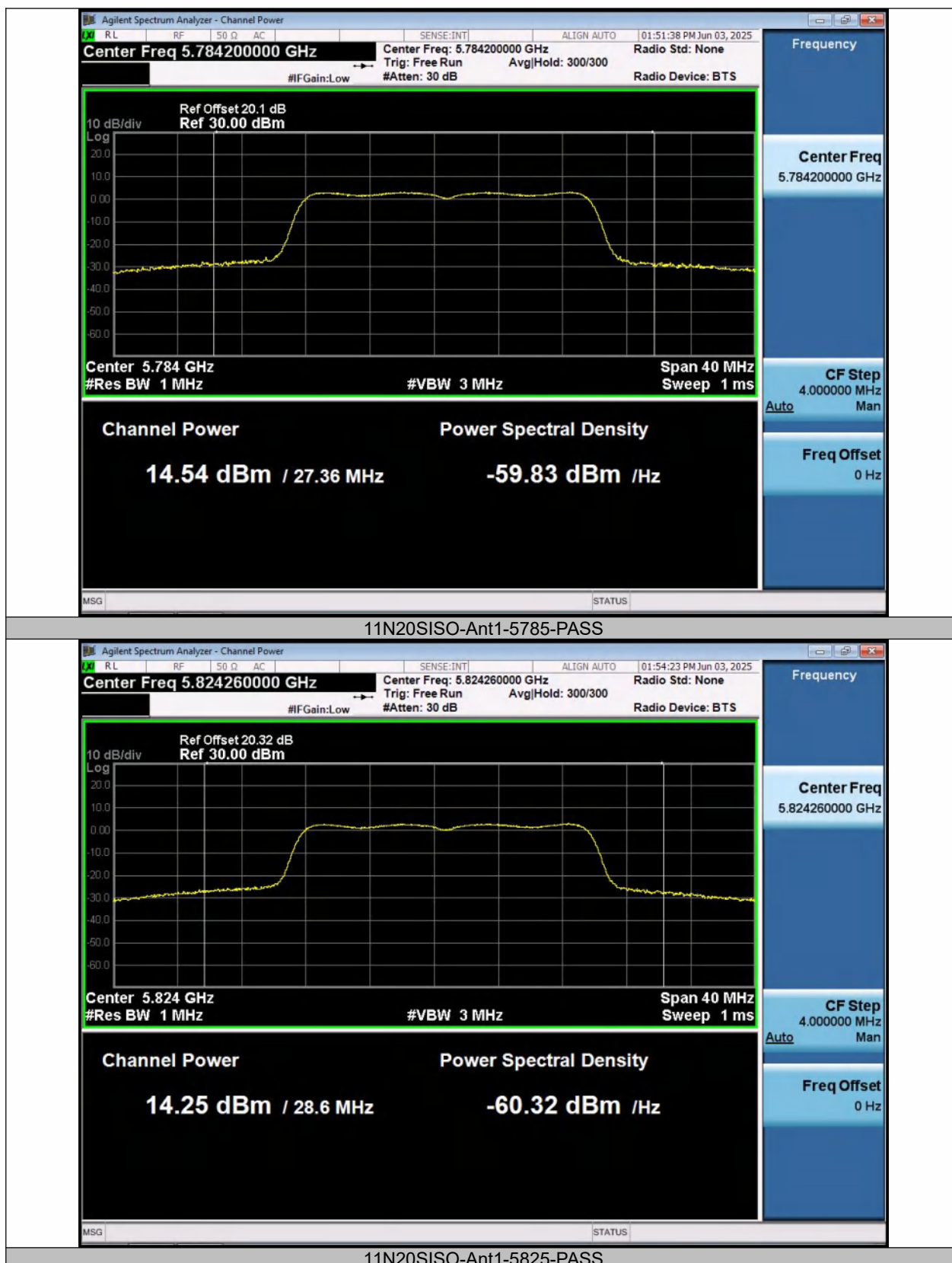




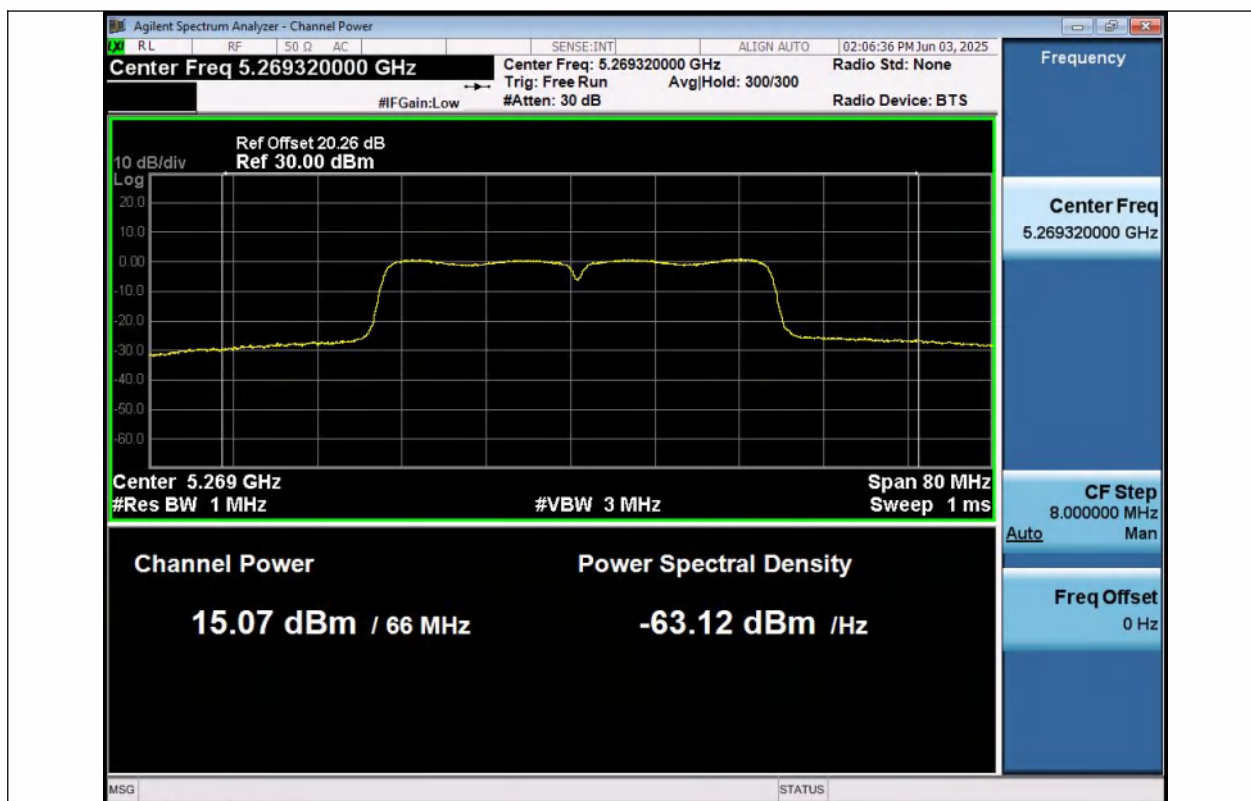
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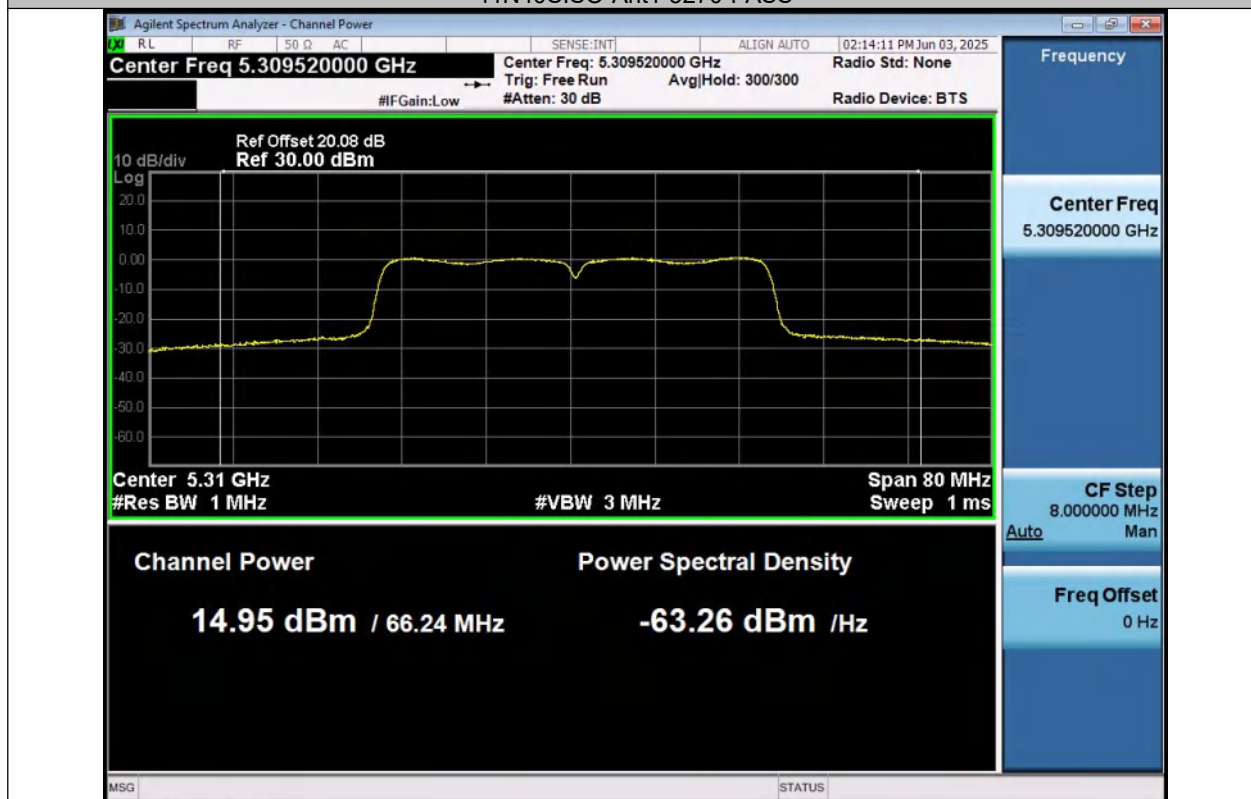
11N20SISO-Ant1-5745-PASS



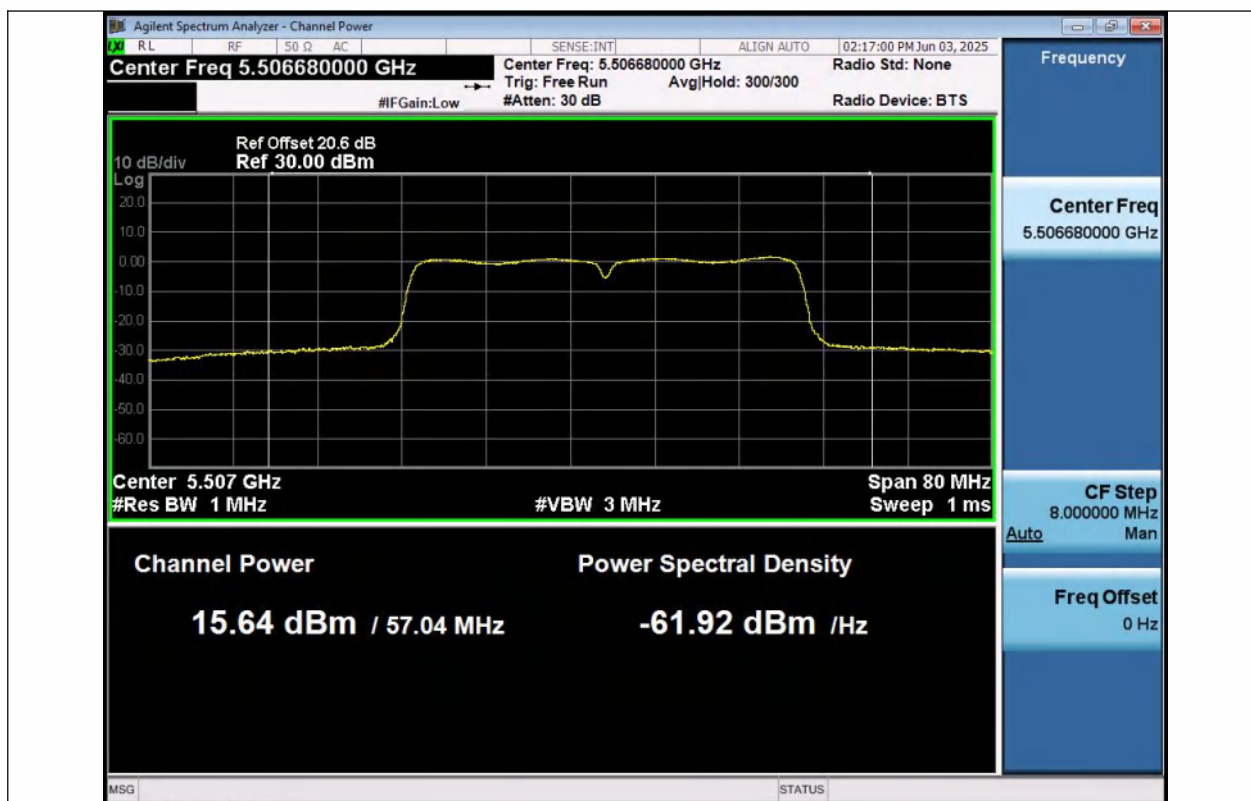




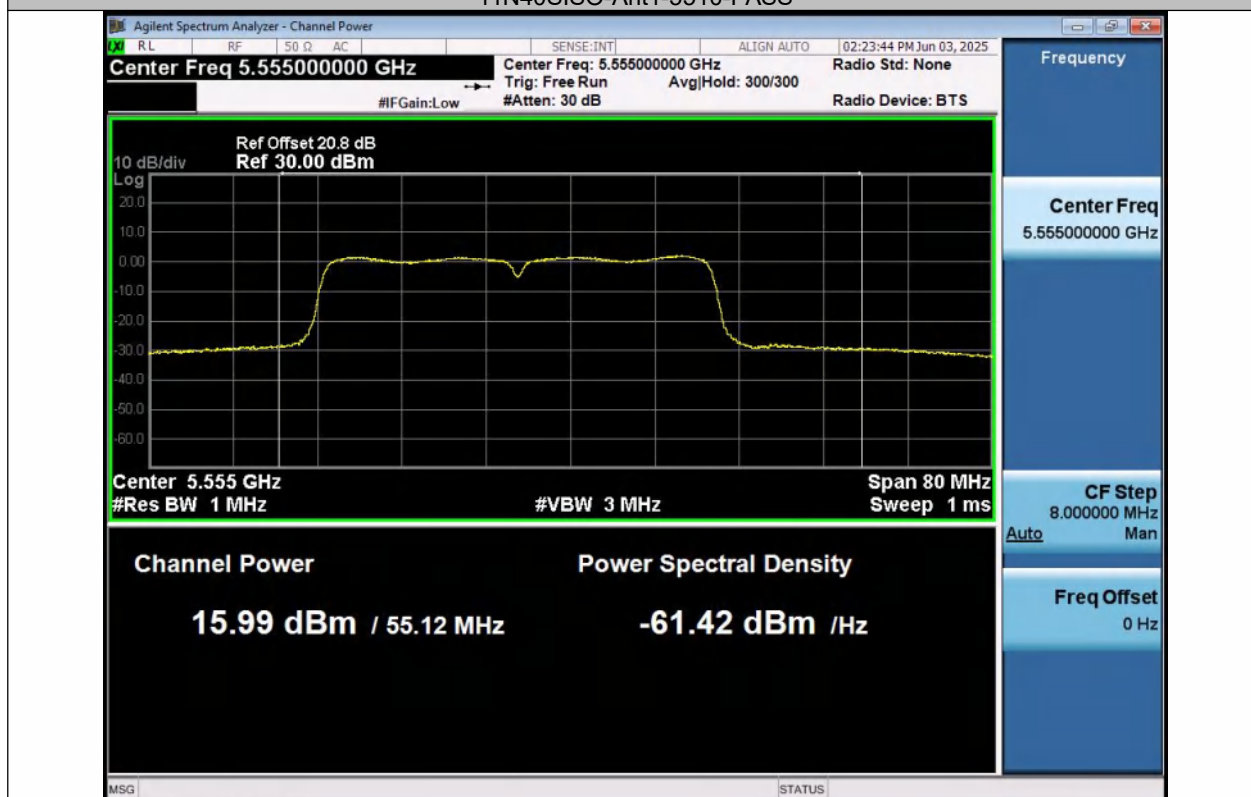
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11N40SISO-Ant1-5310-PASS

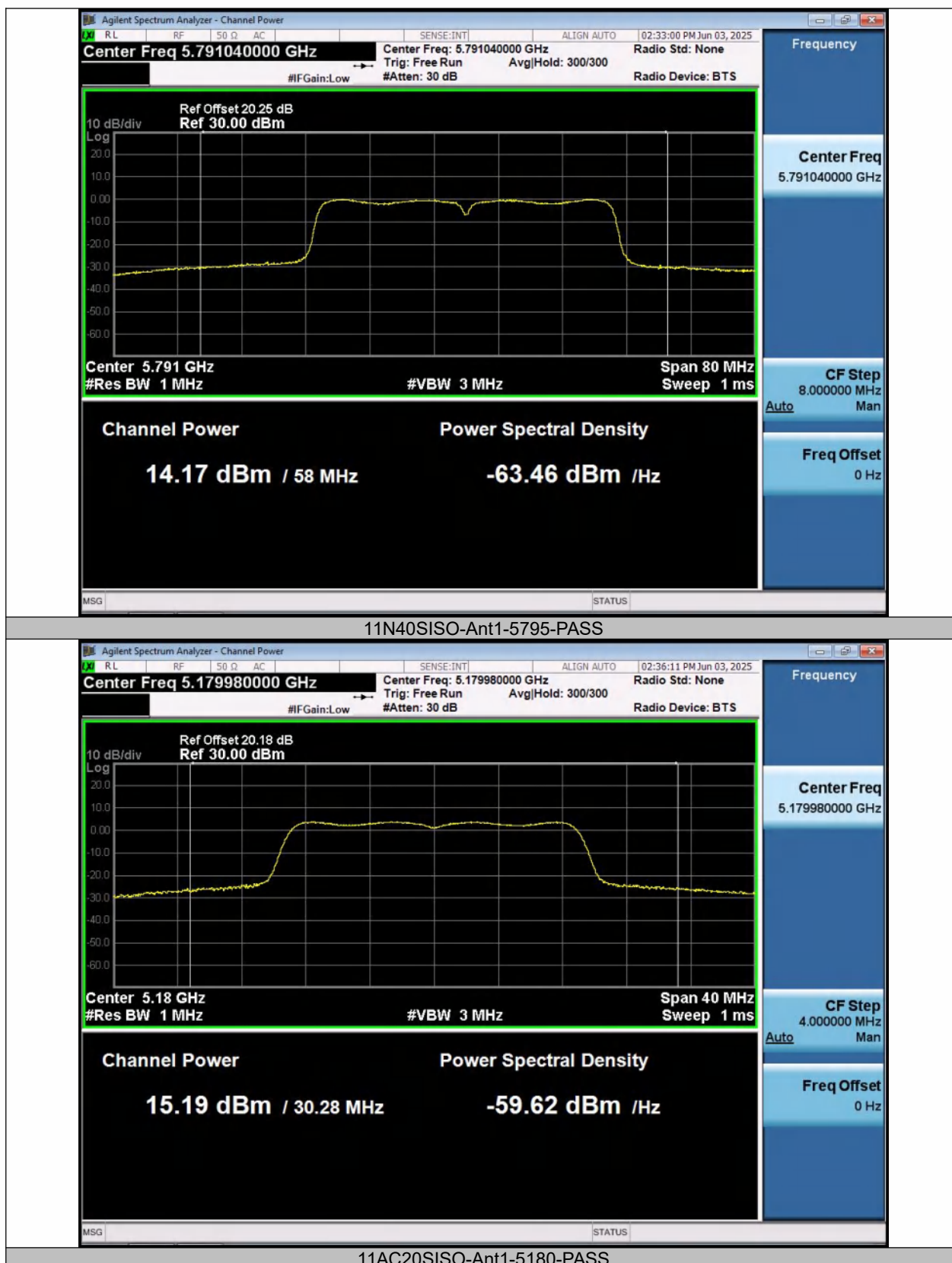


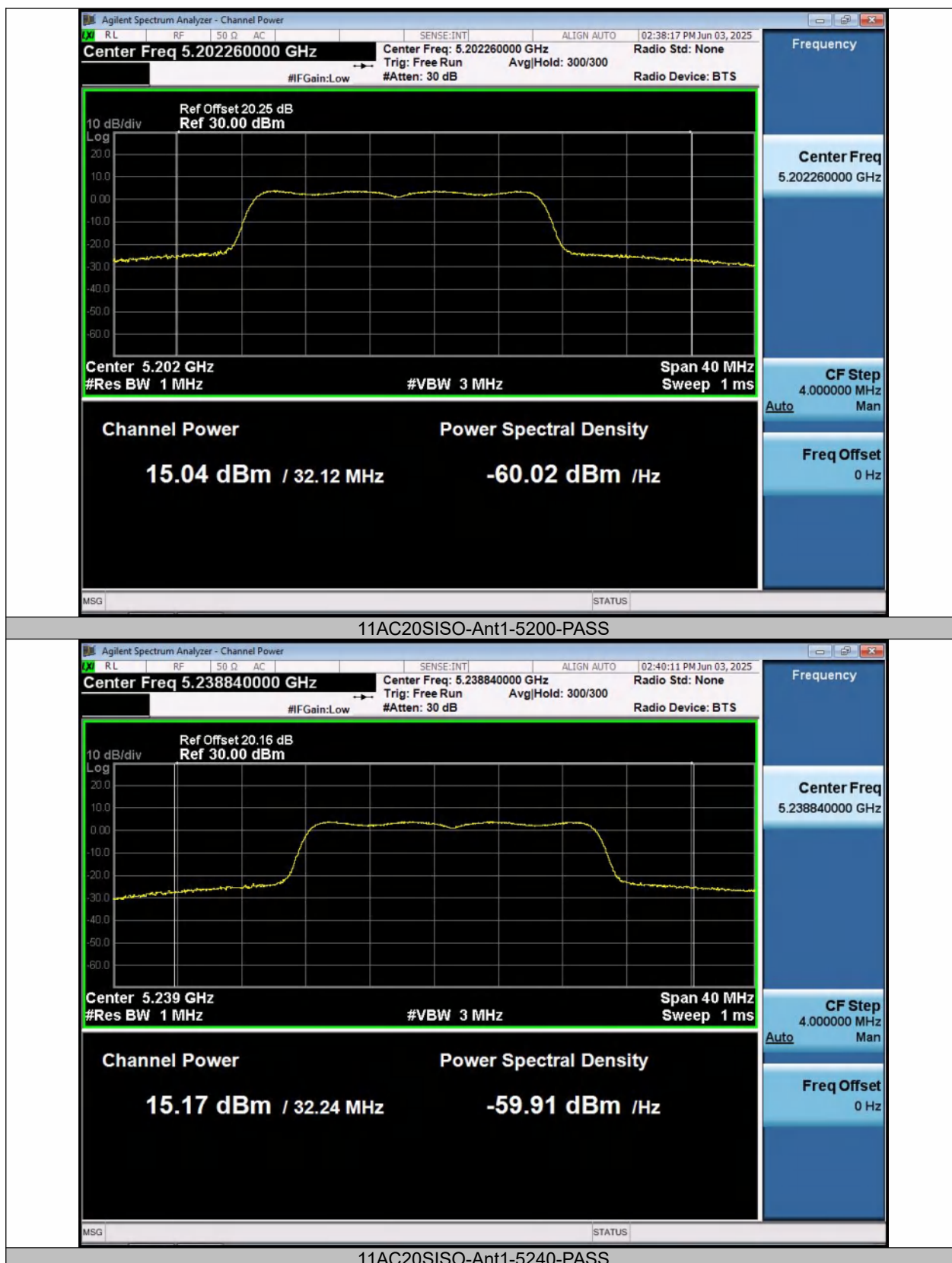
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11N40SISO-Ant1-5550-PASS

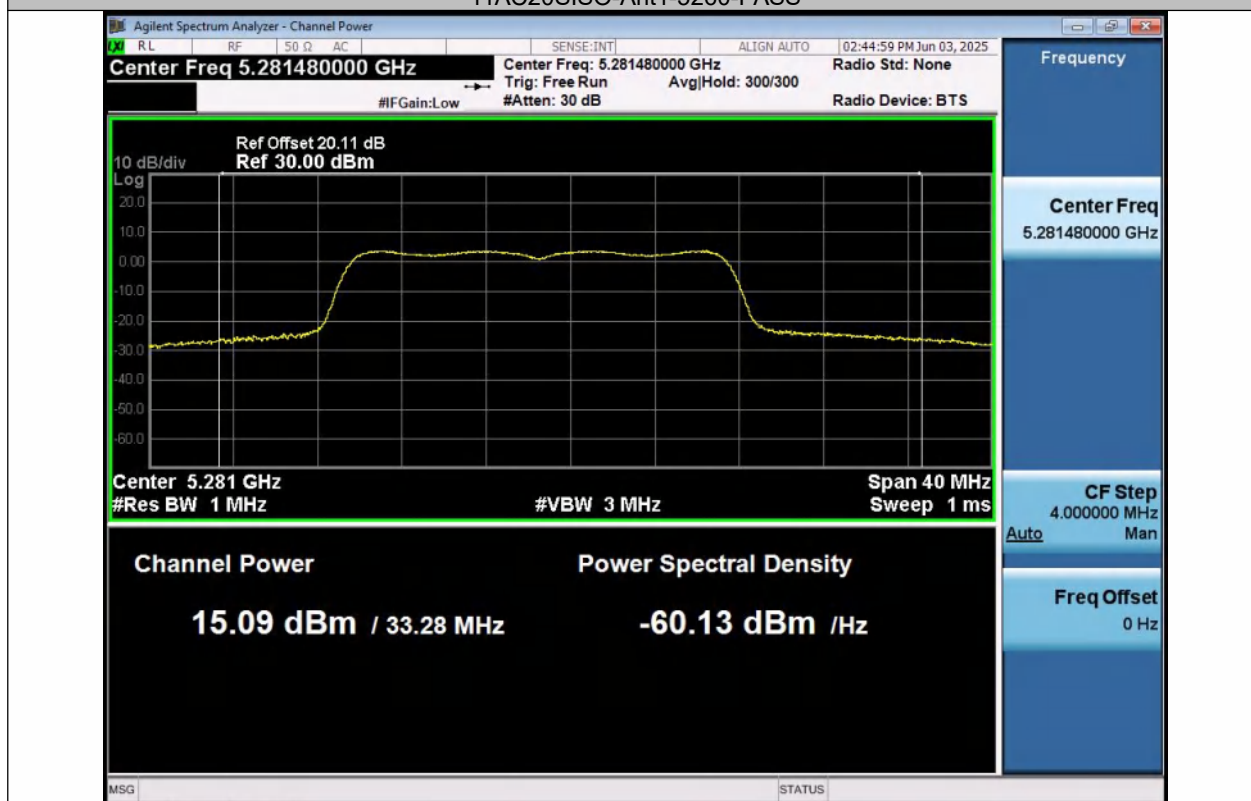








11AC20SISO-Ant1-5260-PASS



11AC20SISO-Ant1-5280-PASS