

FCC TEST REPORT

Product Name: Mobile Phone
Trade Mark: iotapk, HONOR CHOICE
Model No.: GAS-L13
Report Number: 26073026340RFC-4
Test Standards: FCC 47 CFR Part 15 Subpart E
FCC ID: 2BAII-GAS-L13
Test Result: PASS
Date of Issue: September 18, 2026

Prepared for:

Shenzhen Water World Information Co.,Ltd.
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UTTR-RF-FCCPART15.407-V1.2

Version

Version No.	Date	Description
V1.0	September 18, 2026	Original



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1. GENERAL INFORMATION

1.1 CLIENT INFORMATION

Applicant:	Shenzhen Water World Information Co.,Ltd.
Address of Applicant:	Building 3, Dexinchang Wisdom Park, No.23, Heping Road, Qinghua Community, Longhua Subdistrict Longhua District, Shenzhen, Guangdong. China
Manufacturer:	Shenzhen Water World Information Co.,Ltd.
Address of Manufacturer:	Building 3, Dexinchang Wisdom Park, No.23, Heping Road, Qinghua Community, Longhua Subdistrict Longhua District, Shenzhen, Guangdong. China

1.2 EUT INFORMATION

1.2.1 General Description of EUT

Product Name:	Mobile Phone		
Model No.:	GAS-L13		
Trade Mark:	iotapk, HONOR CHOICE		
DUT Stage:	Identical Prototype		
EUT Supports Function: (Provided by the customer)	GSM Bands:	GSM 850/ PCS 1900	
	UTRA Bands:	Band II/ Band IV/ Band V	
	E-UTRA Bands:	FDD Band 2/ 4/ 5/ 7/ 13/ 17/ 26/ 66/ 71	
		TDD Band 38/ 40/ 41	
	2.4 GHz ISM Band:	IEEE 802.11b/g/n	
		Bluetooth V5.0	
	U-NII 5 GHz Bands:	5 150 - 5 250 MHz	IEEE 802.11a/n/ac
		5 250 - 5 350 MHz	IEEE 802.11a/n/ac
		5 470 - 5 725 MHz	IEEE 802.11a/n/ac
5 725 - 5 850 MHz		IEEE 802.11a/n/ac	
RNSS Bands:	1559 - 1610 MHz	GPS/ Galileo/ BDS	
NFC:	13.553 MHz to 13.567 MHz		
Software Version:	FS376L5P_CF1_WX09_CD1666_HONOR_20260826_A16_VOLTE_W1258_L1_3_5_7_8_20_28F_38_40_41F_HONOR_GLOBAL_ALS_DualMic_FP_debug_190223 (Provided by the customer)		
Hardware Version:	FS376-MB-0.1 (Provided by the customer)		
Sample Received Date:	July 6, 2026		
Sample Tested Date:	August 12, 2026 to September 3, 2026		
Note: There are two different versions of this model. The main difference is that the secondary supply screen. For more detail, please refer to manufacturer's difference declaration letter. In electrical characteristics, the above configuration have the same circuit diagram and PCB layout. The original screen configuration was chosen to perform the RF tests as representative.			

Remark:

The above EUT's information was provided by customer. Please refer to the specifications or user's manual for more detailed description.

1.2.2 Description of Accessories

Refer to Report 26073026340EMC-1 for accessories.

1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

Frequency Bands:	5150 MHz to 5250 MHz (U-NII-1)				
	5250 MHz to 5350 MHz (U-NII-2A)				
	5470 MHz to 5725 MHz (U-NII-2C)				
	5725 MHz to 5850 MHz (U-NII-3)				
Frequency Ranges:	5180 MHz to 5240 MHz				
	5260 MHz to 5320 MHz				
	5500 MHz to 5700 MHz				
	5745 MHz to 5825 MHz				
Support Standards:	IEEE 802.11a/n/ac				
TPC Function:	Not Support				
DFS Operational mode:	Slave without radar Interference detection function				
Type of Modulation:	IEEE 802.11a/n: OFDM (64QAM, 16QAM, QPSK, BPSK)				
	IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)				
Channel Spacing:	IEEE 802.11a: OFDM(64QAM, 16QAM, QPSK, BPSK)				
	IEEE 802.11n: OFDM(64QAM, 16QAM, QPSK, BPSK)				
	IEEE 802.11ac: OFDM(256QAM, 64QAM, 16QAM, QPSK, BPSK)				
Data Rate:	IEEE 802.11a: Up to 54 Mbps				
	IEEE 802.11n-HT20: Up to MCS7				
	IEEE 802.11n-HT40: Up to MCS7				
	IEEE 802.11ac-VHT20: Up to MCS8				
	IEEE 802.11ac-VHT40: Up to MCS9				
	IEEE 802.11ac-VHT80: Up to MCS9				
Number of Channels:	5150 MHz to 5250 MHz: 4 for IEEE 802.11a/n-HT20/ac-VHT20 2 for IEEE 802.11n-HT40/ac-VHT40 1 for IEEE 802.11acVHT80				
	5250 MHz to 5350 MHz: 4 for IEEE 802.11a/n-HT20/ac-VHT20 2 for IEEE 802.11n-HT40/ac-VHT40 1 for IEEE 802.11acVHT80				
	5470 MHz to 5725 MHz: 11 for IEEE 802.11a/n-HT20/ac-VHT20 5 for IEEE 802.11n-HT40/ac-VHT40 2 for IEEE 802.11ac-VHT80				
	5725 MHz to 5850 MHz: 5 for IEEE 802.11a/n-HT20/ac-VHT20 2 for IEEE 802.11n-HT40/ac-VHT40 1 for IEEE 802.11ac-VHT80				
Antenna Type: (Provided by the customer)	FPC Antenna				
Antenna Gain: (Provided by the customer)	5150 MHz to 5250 MHz	2.1 dBi			
	5250 MHz to 5350 MHz	2.1 dBi			
	5470 MHz to 5725 MHz	2.1 dBi			
	5725 MHz to 5850 MHz	2.1 dBi			
Maximum conducted output power (dBm):	Mode	U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
	IEEE 802.11a:	16.28	16.4	12.85	13.55
	IEEE 802.11n-HT20:	16.49	16.71	12.91	13.64
	IEEE 802.11n-HT40:	16.05	15.85	11.99	13.34
	IEEE 802.11ac-VHT20	16.41	16.65	12.95	13.68
	IEEE 802.11ac-VHT40	16.01	16.21	12.03	13.46
	IEEE 802.11ac-VHT80:	15.41	15.92	11.98	13.06

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Normal Test Voltage:	3.91 Vdc and/or 120V~60Hz
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1.4 OTHER INFORMATION

Operation Frequency Each of Channel				
	U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
IEEE 802.11a, IEEE 802.11n-HT20, IEEE 802.11ac-VHT20	f = 5000 + 5k, k = 32 + 4n			f = 5000 + 5k, k = 145 + 4n
	n = 1,..., 4	n = 5,..., 8	n = 17,..., 27	n = 1,..., 5
IEEE 802.11n-HT40, IEEE 802.11ac-VHT40	f = 5000 + 5k, k = 30 + 8n			f = 5000 + 5k, k = 143 + 8n
	n = 1, 2	n = 1,..., 5	n = 9,..., 13	n = 1, 2
IEEE 802.11ac-VHT80	f = 5000 + 5k, k = 26 + 16n			f = 5000 + 5k, k = 155
	n = 1	n = 1, 2	n = 5, 6	
Note: f is the operating frequency (MHz); k is the operating channel.				

1.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested with associated equipment below.

1) Support Equipment

Description	Manufacturer	Model No.	Serial Number	FCC ID	Supplied by
Notebook	DELL	Latitude 3400	16238087894	N/A	UnionTrust
Mouse	DELL	MS111	CN-01D3V-738	N/A	UnionTrust
ROG Rapture Tri-band Gaming Router	ASUS	GT-AXE11000	M3IAJF201746	MSQ-RTAXJF00	UnionTrust

2) Support Cable

Cable No.	Description	Connector	Length	Supplied by
1	Antenna Cable	SMA	0.3 Meter	Applicant

1.6 TEST LOCATION

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1.7 TEST FACILITY

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L9069

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable under the ISO/IEC 17025 to international or national standards. Equipment has been calibrated by accredited calibration laboratories.

A2LA-Lab Certificate No.: 4312.01

Shenzhen UnionTrust Quality and Technology Co., Ltd. has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

ISED Wireless Device Testing Laboratories

CAB identifier: CN0032

FCC Accredited Lab.

Designation Number: CN1194

Test Firm Registration Number: 259480

1.8 DEVIATION FROM STANDARDS

None.

1.9 ABNORMALITIES FROM STANDARD CONDITIONS

None.

1.10 OTHER INFORMATION REQUESTED BY THE CUSTOMER

None.

1.11 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Measurement Uncertainty
1	Conducted emission 9kHz-150kHz	±3.2 dB
2	Conducted emission 150kHz-30MHz	±3.1 dB
3	Radiated emission 9kHz-30MHz	± 4.7 dB
4	Radiated emission 30MHz-1GHz	± 4.6 dB
5	Radiated emission 1GHz-18GHz	± 4.4 dB
6	Radiated emission 18GHz-26GHz	± 4.6 dB
7	Radiated emission 26GHz-40GHz	± 4.6 dB
8	Conducted spurious emissions	± 2.7 dB
9	RF Power, Conducted	± 0.68 dB
10	Occupied Bandwidth	± 1.86 %
11	Radio Frequency	± 6.4 x 10 ⁻⁸
12	Transmission Time	± 0.19 %

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2. TEST SUMMARY

FCC 47 CFR Part 15 Subpart E Test Cases			
Test Item	Test Requirement	Test Method	Result
Antenna Requirement	FCC 47 CFR Part 15 Subpart C Section 15.203 FCC 47 CFR Part 15 Subpart E Section 15.407(a)(1) (2)	N/A	PASS
26 dB emission bandwidth	FCC 47 CFR Part 15 Subpart E Section 15.407 (a)(2)(5)	KDB 789033 D02 v02r01 Section C.1	PASS
6 dB bandwidth	FCC 47 CFR Part 15 Subpart E Section 15.407 (e)	KDB 789033 D02 v02r01 Section C.2	PASS
Occupied Bandwidth	N/A	KDB 789033 D02 v02r01 Section II.D	None; for reporting purposes only.
Maximum conducted output power	FCC 47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2)(3)	KDB 789033 D02 v02r01 Section E.3.a (Method PM)	PASS
Peak Power Spectral Density	FCC 47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2)(3)	KDB 789033 D02 v02r01 Section F	PASS
Radiated Emissions and Band Edge Measurement	FCC 47 CFR Part 15 Subpart E Section 15.407 (b)(1)(2)(3)(4)(6) FCC 47 CFR Part 15 Subpart C Section 15.209/205	KDB 789033 D02 v02r01 Section G.3, G.4, G.5, and G.6	PASS
Dynamic Frequency Selection	FCC 47 CFR Part 15 Subpart E Section 15.407 (h)	KDB 905462 D03 Client Without DFS New Rules v01r02	PASS
AC Power Line Conducted Emission	FCC 47 CFR Part 15 Subpart E Section 15.407 (b)(6) FCC 47 CFR Part 15 Subpart C Section 15.207	ANSI C63.10-2020, Section 6.2.	PASS
Duty Cycle	N/A	KDB 789033 D02 v02r01 Section II.B.1	None; for reporting purposes only.
Disclaimer and Explanations: The declared of product specification and data (e.g., antenna gain, RF specification, etc) for EUT presented in the report are provided by the customer, and the customer takes all the responsibilities for the accuracy of product specification.			

For Dynamic Frequency Selection

Test Case	Result
Channel Availability Check Time	N/A ^{Note 1}
U-NII Detection Bandwidth	N/A ^{Note 1}
Channel Closing Transmission Time	PASS
Channel Move Time	PASS
DFS Detection Threshold	N/A ^{Note 1}
Non- Occupancy Period	N/A ^{Note 1}
Note: 1) The EUT is slave, NA In this whole report not applicable.	

3. EQUIPMENT LIST

Radiated Emission Test Equipment List						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
☒	3m SAC	ETS-LINDGREN	3M	Euroshiedpn-CT001270-1317	11-Nov-2023	10-Nov-2026
☒	Receiver	R&S	ESIB26	100114	24-Oct-2025	23-Oct-2026
☒	Spectrum analyzer	ROHDE & SCHWARZ	FSV40-N	101653	20-Mar-2026	19-Mar-2027
☒	Loop Antenna	ETS-LINDGREN	6502	00202525	26-Jan-2026	25-Jan-2027
☒	Broadband Antenna	ETS-LINDGREN	3142E	00201566	26-Oct-2025	25-Oct-2026
☒	6dB Attenuator	Talent	RA6A5-N-18	18103001	26-Oct-2025	25-Oct-2026
☒	Preamplifier	HP	8447F	2805A02960	24-Oct-2025	23-Oct-2026
☒	Double-Ridged Waveguide Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3117-PA	00201541	21-Mar-2026	20-Mar-2027
☒	Pre-amplifier	ETS-LINDGREN	00118385	00201874	21-Mar-2026	20-Mar-2027
☒	Double-Ridged Waveguide Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3116C-PA	00202652	30-Oct-2025	29-Oct-2026
☒	Pre-amplifier	ETS-LINDGREN	00118384	00202652	24-Oct-2025	23-Oct-2026
☒	Band Rejection Filter (5150MHz~5880MHz)	Micro-Tronics	BRM50716	G186	24-Oct-2025	23-Oct-2026
☒	Multi device Controller	ETS-LINDGREN	7006-001	00160105	N/A	N/A
☒	Test Software	Audix	e3	Software Version: 9.160323		

Conducted Emission Test Equipment List						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
☒	LISN	ROHDE & SCHWARZ	ENV216	3560.6550.12	22-Jan-2026	21-Jan-2027
☐	LISN	ETS-Lindgren	3816/2SH	00201088	22-Jan-2026	21-Jan-2027
☒	Receiver	ROHDE & SCHWARZ	ESCI 3	101192	24-Oct-2025	23-Oct-2026
☒	Shielding room	ETS-Lindgren	843	Euroshiedpn-CT001270-1246	25-Oct-2024	24-Oct-2027
☒	Test Software	EZ-EMC	EZ-CON	Software Version: EMC-CON 3A1.1		

RF Conducted Test Equipment List						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
☒	EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY51440197	20-Mar-2026	19-Mar-2027
☒	Shielding room	ETS-Lindgren	333	Euroshiedpn-TJ2343-S1608	20-Mar-2026	19-Mar-2029
☒	MXG-B RF Vector Signal Generator	KEYSIGHT	N5182B	MY61350133	20-Mar-2026	19-Mar-2027
☒	Automatic control switch	Tonscend	JS0806-2	24G80620875	11-Jun-2026	10-Jun-2027
☒	Test Software	Tonscend	JS1120-3	Software Version: V3.5.39		

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4. TEST CONFIGURATION

4.1 ENVIRONMENTAL CONDITIONS FOR TESTING

4.1.1 Normal or Extreme Test Conditions

Environment Parameter	Selected Values During Tests		
Test Condition	Ambient		
	Temperature (°C)	Voltage	Relative Humidity (%)
NT/NV	+15 to +35	3.91Vdc and/or 120 Vac	20 to 75
Remark: 1) NV: Normal Voltage; NT: Normal Temperature			

4.1.2 Record of Normal Environment and Test Sample

Test Item	Sample No.	Tested by
AC Power Line Conducted Emission	S202609189686-ZJA02/5	Shirley Wu
26 dB emission bandwidth	S202609189686-ZJA01/7	Erina Chen
Maximum conducted output power		
Peak Power Spectral Density		
6 dB bandwidth		
Dynamic Frequency Selection		
Radiated Emissions and Band Edge Measurement (Radiated)	S202609189686-ZJA03/5	Leo Li

4.2 TEST CHANNELS

Mode	Tx/Rx Frequency	Test RF Channel Lists		
		Lowest(L)	Middle(M)	Highest(H)
IEEE 802.11a IEEE 802.11n-HT20 IEEE 802.11ac-VHT20	5150 MHz to 5250 MHz	Channel 36	Channel 44	Channel 48
		5180 MHz	5220 MHz	5240 MHz
	5250 MHz to 5350 MHz	Channel 52	Channel 60	Channel 64
		5260 MHz	5300 MHz	5320 MHz
	5470 MHz to 5725 MHz	Channel 100	Channel 116	Channel 140
		5500 MHz	5580 MHz	5700 MHz
IEEE 802.11n-HT40 IEEE 802.11ac-VHT40	5150 MHz to 5250 MHz	Channel 149	Channel 157	Channel 165
		5745 MHz	5785 MHz	5825 MHz
	5250 MHz to 5350 MHz	Channel 38	--	Channel 46
		5190 MHz	--	5230 MHz
	5470 MHz to 5725 MHz	Channel 54	--	Channel 62
		5270 MHz	--	5310 MHz
IEEE 802.11ac-VHT80	5150 MHz to 5250 MHz	Channel 102	Channel 110	Channel 134
		5510 MHz	5550 MHz	5670 MHz
	5250 MHz to 5350 MHz	Channel 151	--	Channel 159
		5755 MHz	--	5795 MHz
	5470 MHz to 5725 MHz	--	Channel 42	--
		--	5210 MHz	--
IEEE 802.11ac-VHT80	5250 MHz to 5350 MHz	--	Channel 58	--
		--	5290 MHz	--
	5470 MHz to 5725 MHz	Channel 106	--	Channel 122
		5530 MHz	--	5610 MHz

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	5725 MHz to 5850 MHz	--	Channel 155	--
		--	5775 MHz	--

4.3 EUT TEST STATUS

Mode	Tx/Rx Function	Description
IEEE 802.11a/n/ac	1Tx/1Rx	1. Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.

Power Setting				
	U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
IEEE 802.11a	18	18	18	17
IEEE 802.11n-HT20	17	17	17	17
IEEE 802.11n-HT40	17	17	17	17
IEEE 802.11ac-VHT20	16	16	16	15
IEEE 802.11ac-VHT40	16	16	16	16
IEEE 802.11ac-VHT80	16	16	16	16

Test Software (Provided by the customer)
EngineerMode(*##83781#***)

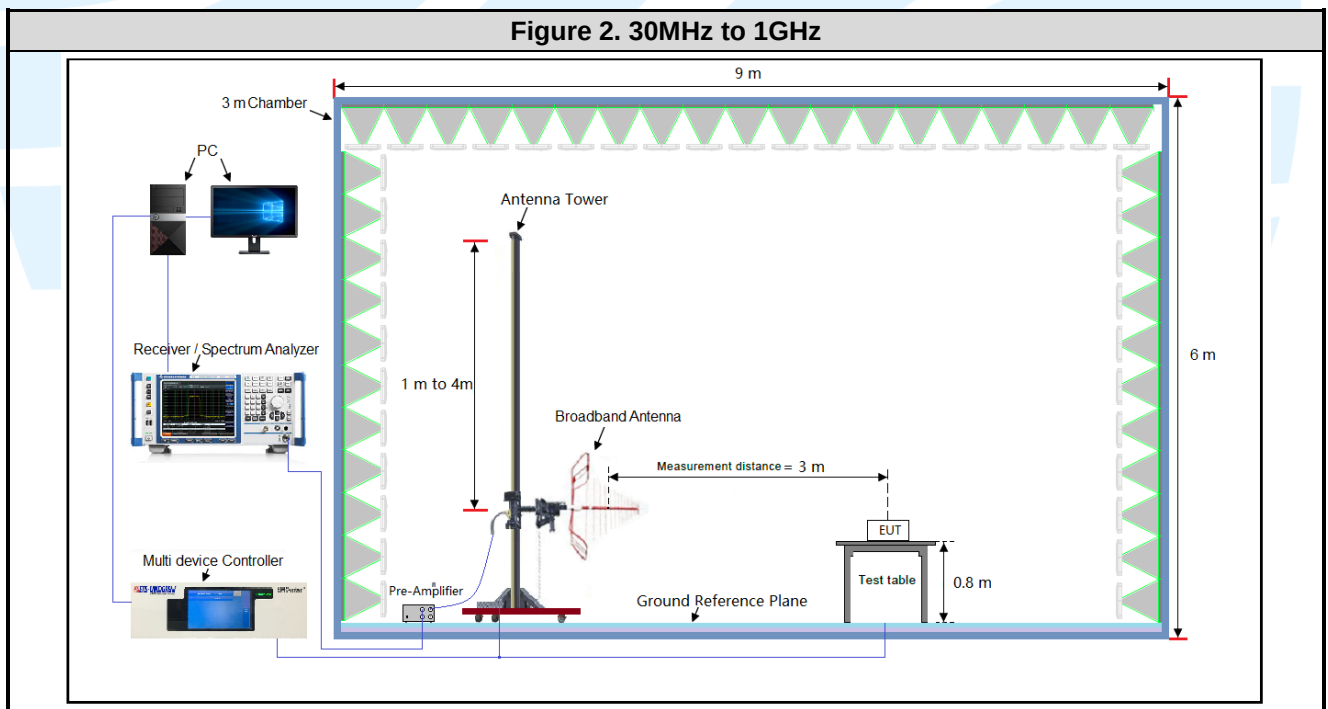
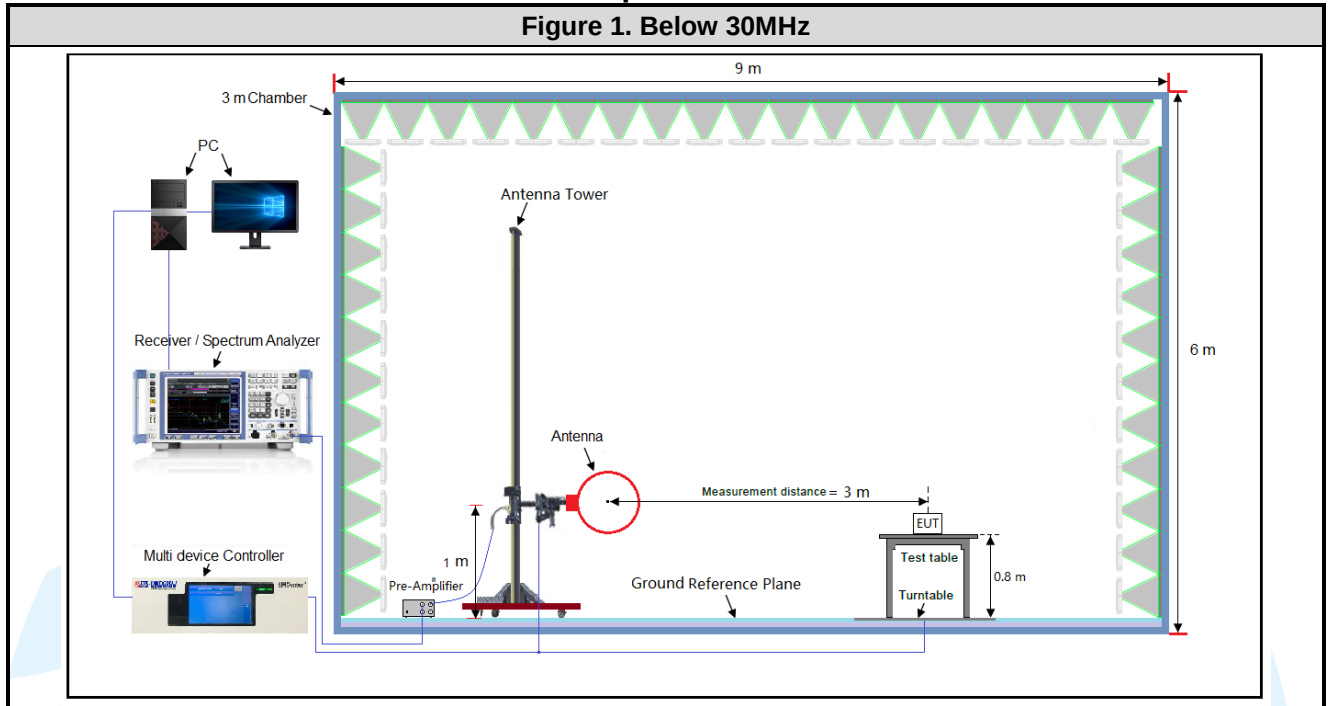
4.4 PRE-SCAN

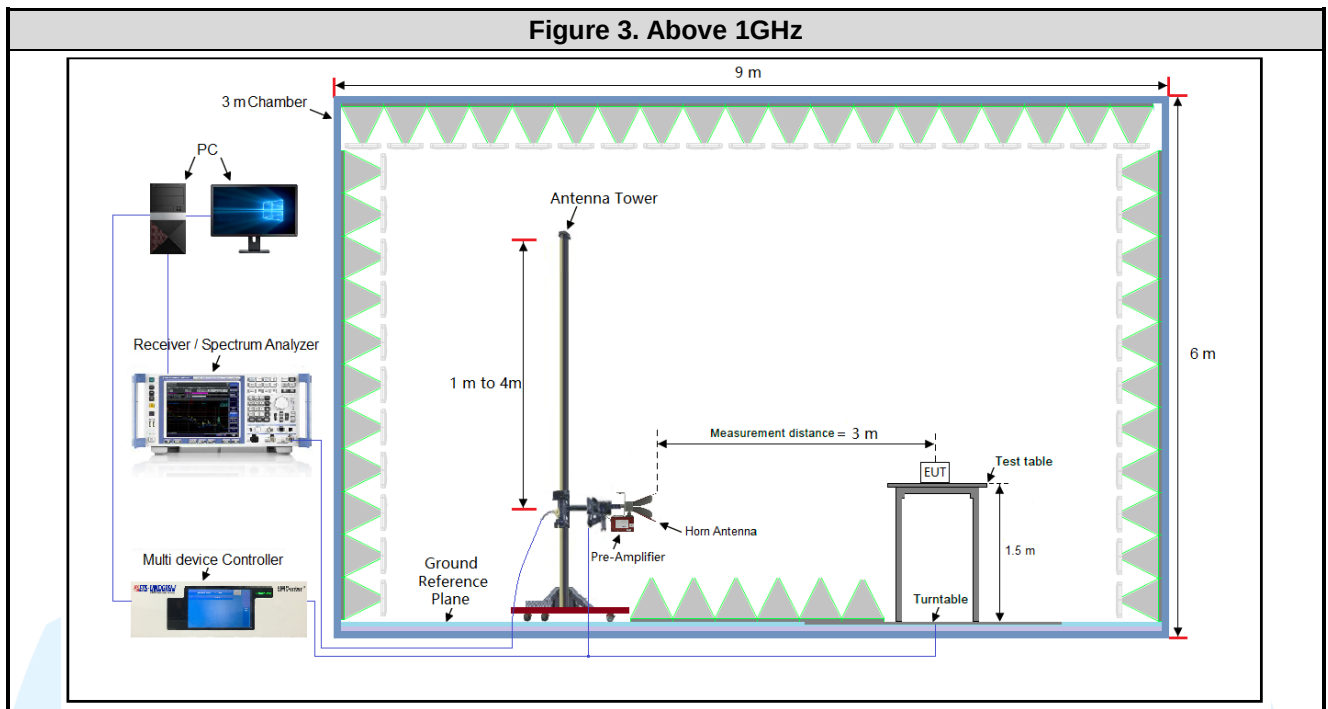
Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and data rate. Following data rate was (were) selected for the final test as listed below

Mode	Worst-case data rates
IEEE 802.11a	6 Mbps
IEEE 802.11n-HT20	MCS0
IEEE 802.11n-HT40	MCS0
IEEE 802.11ac-VHT20	MCS0
IEEE 802.11ac-VHT40	MCS0
IEEE 802.11ac-VHT80	MCS0

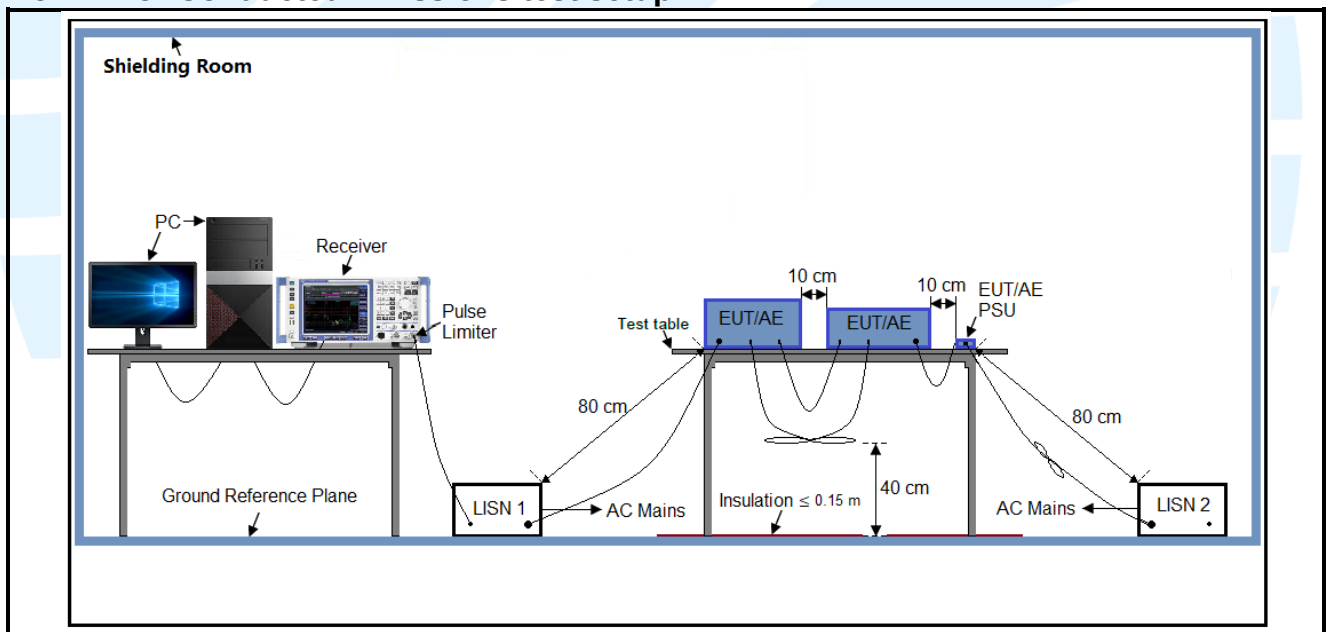
4.5 TEST SETUP

4.5.1 For Radiated Emissions test setup

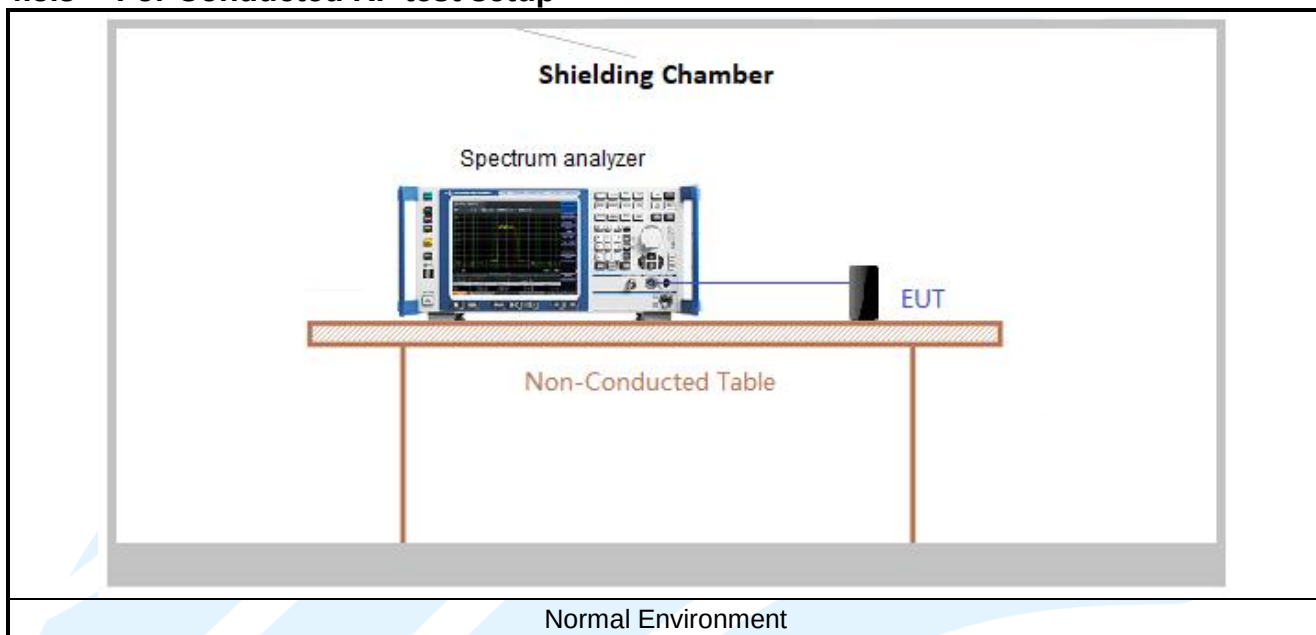




4.5.2 For Conducted Emissions test setup



4.5.3 For Conducted RF test setup



4.6 SYSTEM TEST CONFIGURATION

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, radiated emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario. It was powered by a 3.91V battery. Only the worst case data were recorded in this test report.

The signal is maximized through rotation and placement in the three orthogonal axes. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance. Therefore, all final radiated testing was performed with the EUT in orientation.

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000 MHz. The resolution is 1 MHz or greater for frequencies above 1000 MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

Radiated emission measurement were performed from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

With same mode on Full RU, Partial RU and SU, investigation was performed on both band edge and radiated spurious emissions to determine the worst case, and SU mode was determined to be the worst case.

For band edge and radiated spurious emissions, 802.11ac VT20/40 Covered by 802.11n HT20/40.

4.7 DUTY CYCLE

Test Procedure: KDB 789033 D02 v02r01 Section II.B.1

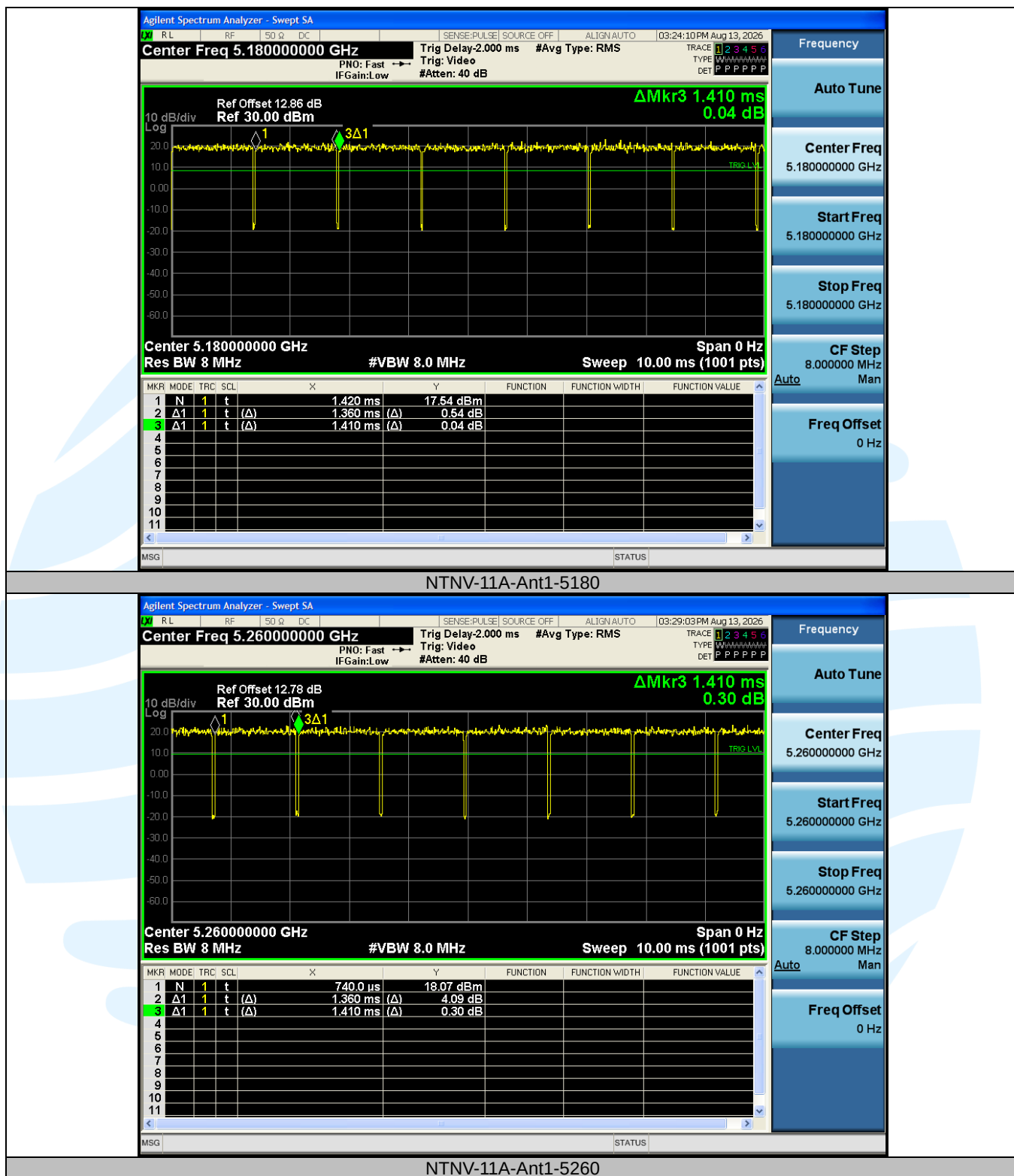
Test Results

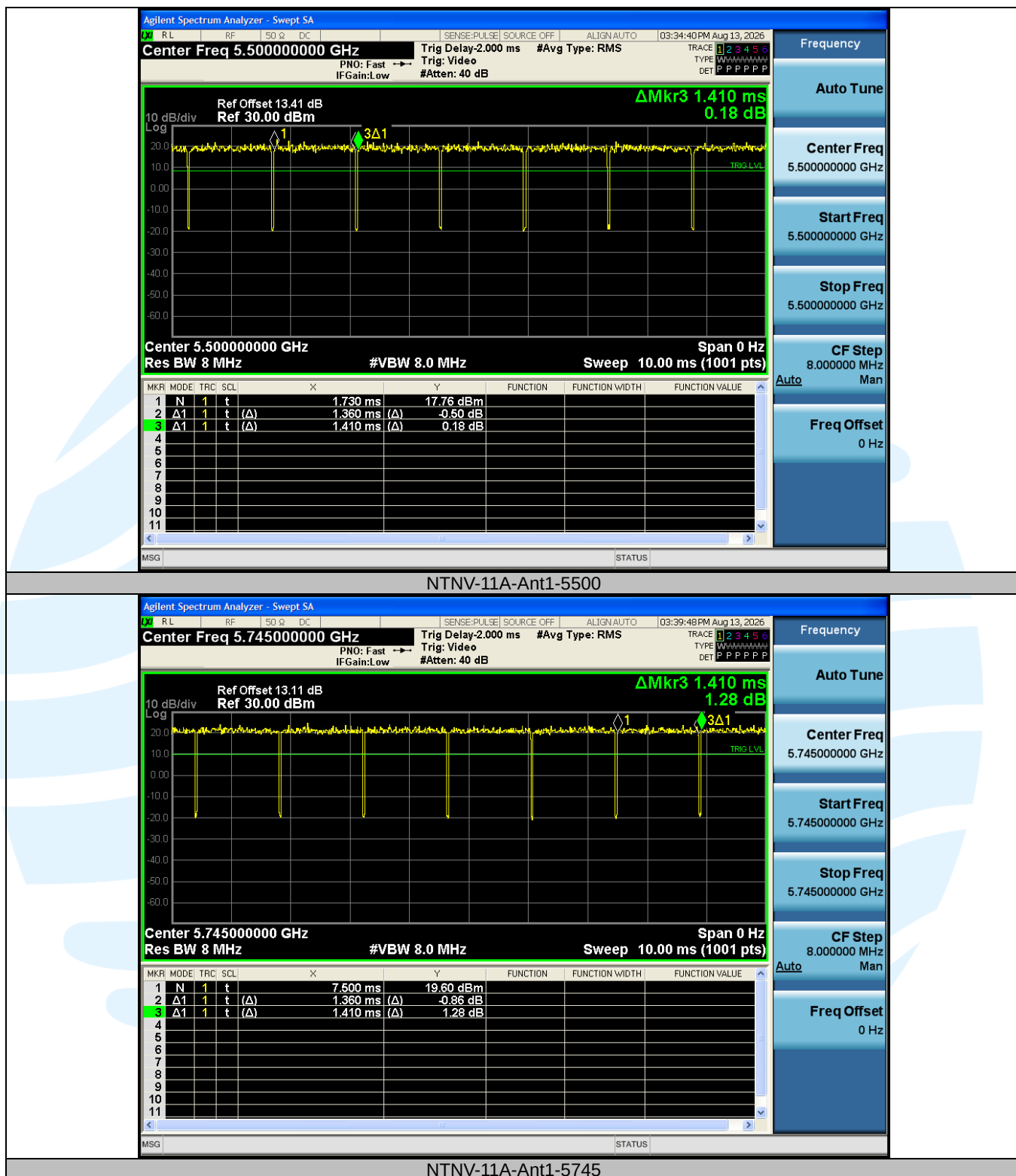
Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	DC. Factor [%]	1/T
11A	Ant1	5180	1.36	1.41	96.45	0.16	0.74
11A	Ant1	5260	1.36	1.41	96.45	0.16	0.74
11A	Ant1	5500	1.36	1.41	96.45	0.16	0.74
11A	Ant1	5745	1.36	1.41	96.45	0.16	0.74
11N20SISO	Ant1	5180	1.15	1.20	95.83	0.18	0.87
11N20SISO	Ant1	5260	1.15	1.20	95.83	0.18	0.87
11N20SISO	Ant1	5500	1.15	1.20	95.83	0.18	0.87
11N20SISO	Ant1	5745	1.15	1.20	95.83	0.18	0.87
11N40SISO	Ant1	5190	0.58	0.63	92.06	0.36	1.72
11N40SISO	Ant1	5270	0.58	0.63	92.06	0.36	1.72
11N40SISO	Ant1	5510	0.57	0.62	91.94	0.36	1.75
11N40SISO	Ant1	5755	0.58	0.63	92.06	0.36	1.72
11AC20SISO	Ant1	5180	1.15	1.20	95.83	0.18	0.87
11AC20SISO	Ant1	5260	1.16	1.21	95.87	0.18	0.86
11AC20SISO	Ant1	5500	1.16	1.21	95.87	0.18	0.86
11AC20SISO	Ant1	5745	1.16	1.21	95.87	0.18	0.86
11AC40SISO	Ant1	5190	0.58	0.63	92.06	0.36	1.72
11AC40SISO	Ant1	5270	0.58	0.63	92.06	0.36	1.72
11AC40SISO	Ant1	5510	0.58	0.63	92.06	0.36	1.72
11AC40SISO	Ant1	5755	0.58	0.63	92.06	0.36	1.72
11AC80SISO	Ant1	5210	0.29	0.34	85.29	0.69	3.45
11AC80SISO	Ant1	5290	0.29	0.34	85.29	0.69	3.45
11AC80SISO	Ant1	5530	0.29	0.34	85.29	0.69	3.45
11AC80SISO	Ant1	5775	0.29	0.34	85.29	0.69	3.45

Remark:

- 1) Duty cycle= On Time/ Period;
- 2) Duty Cycle factor = $10 * \log(1/\text{Duty cycle})$;

The test plots as follows





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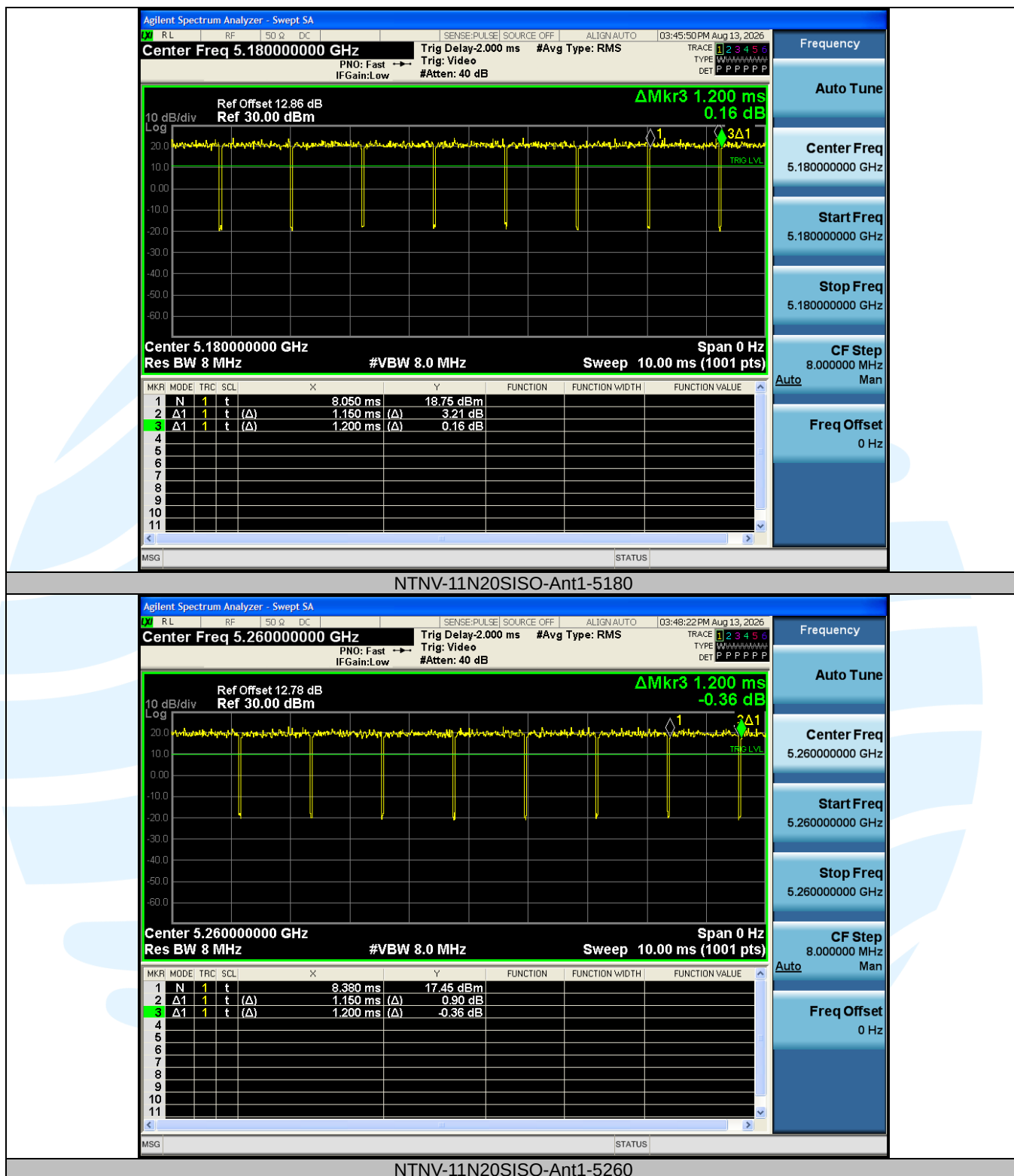
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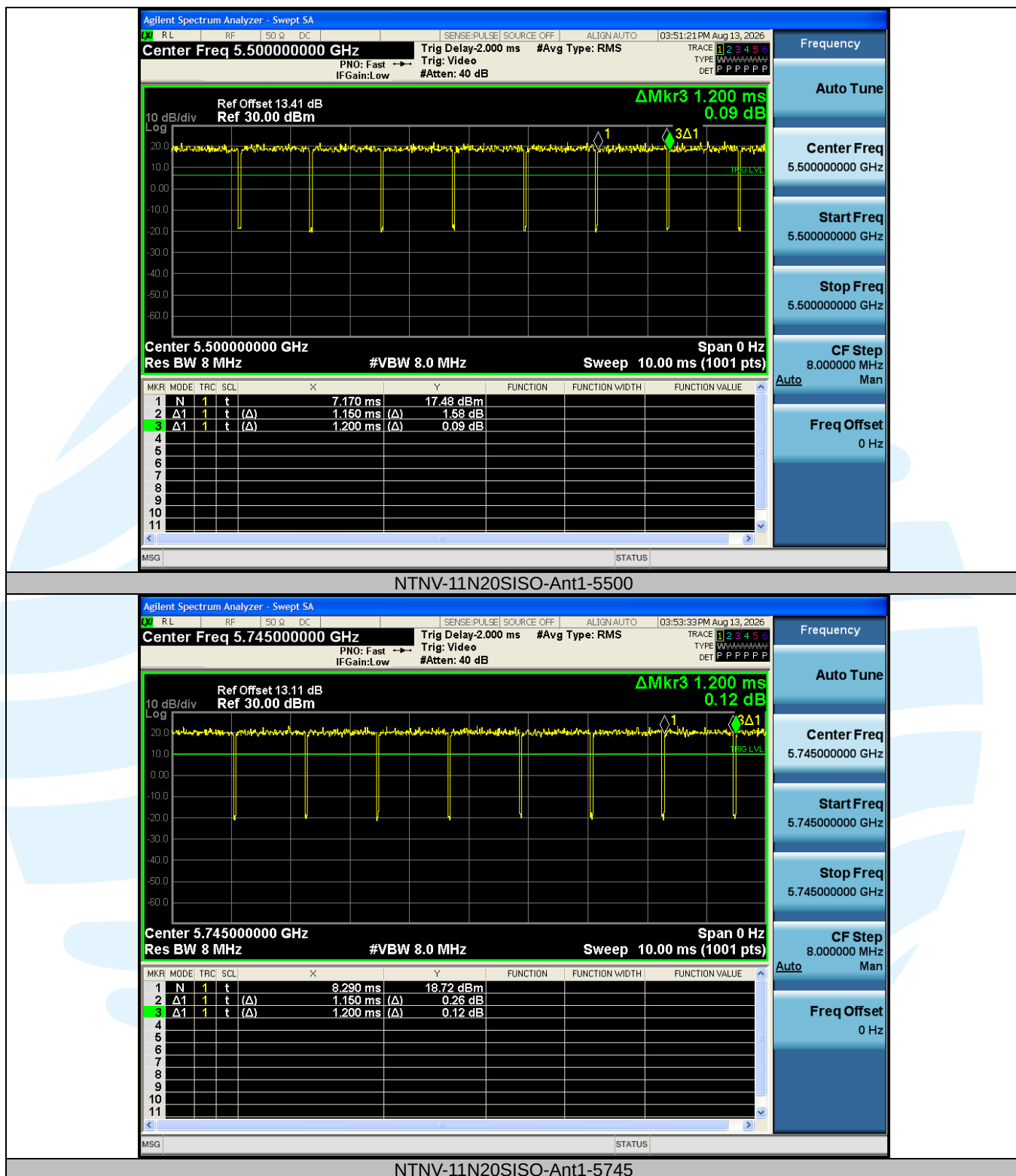
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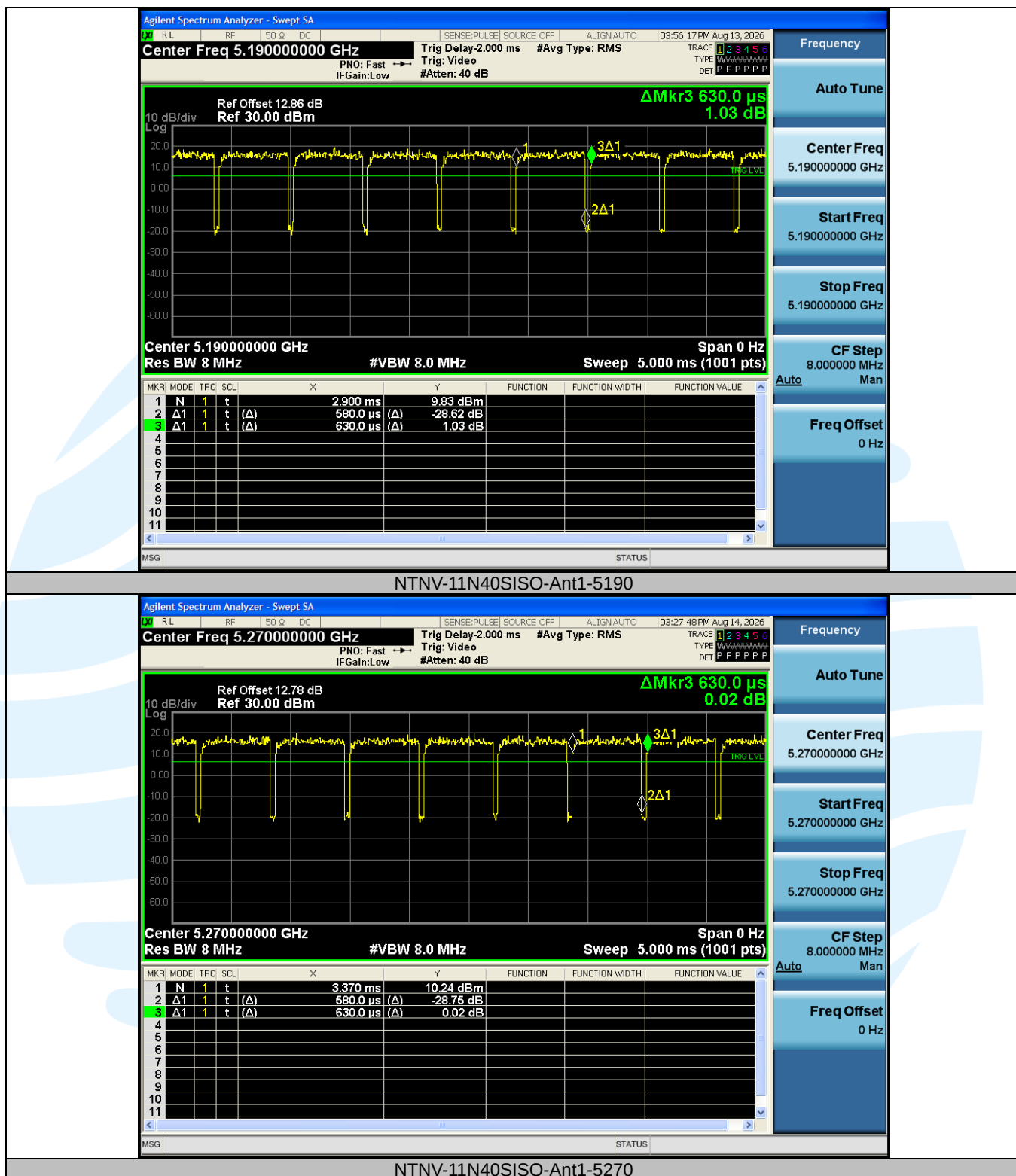
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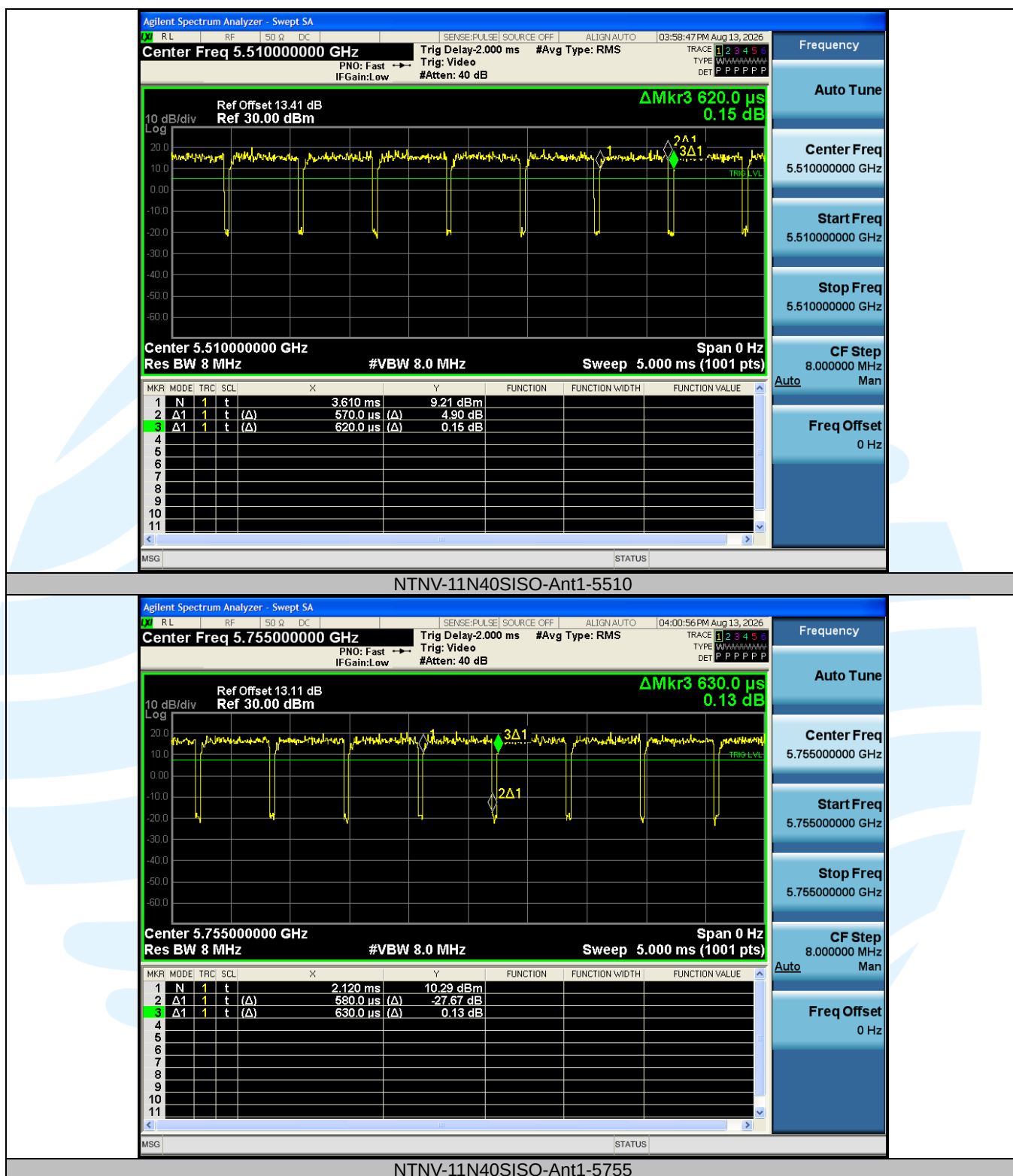
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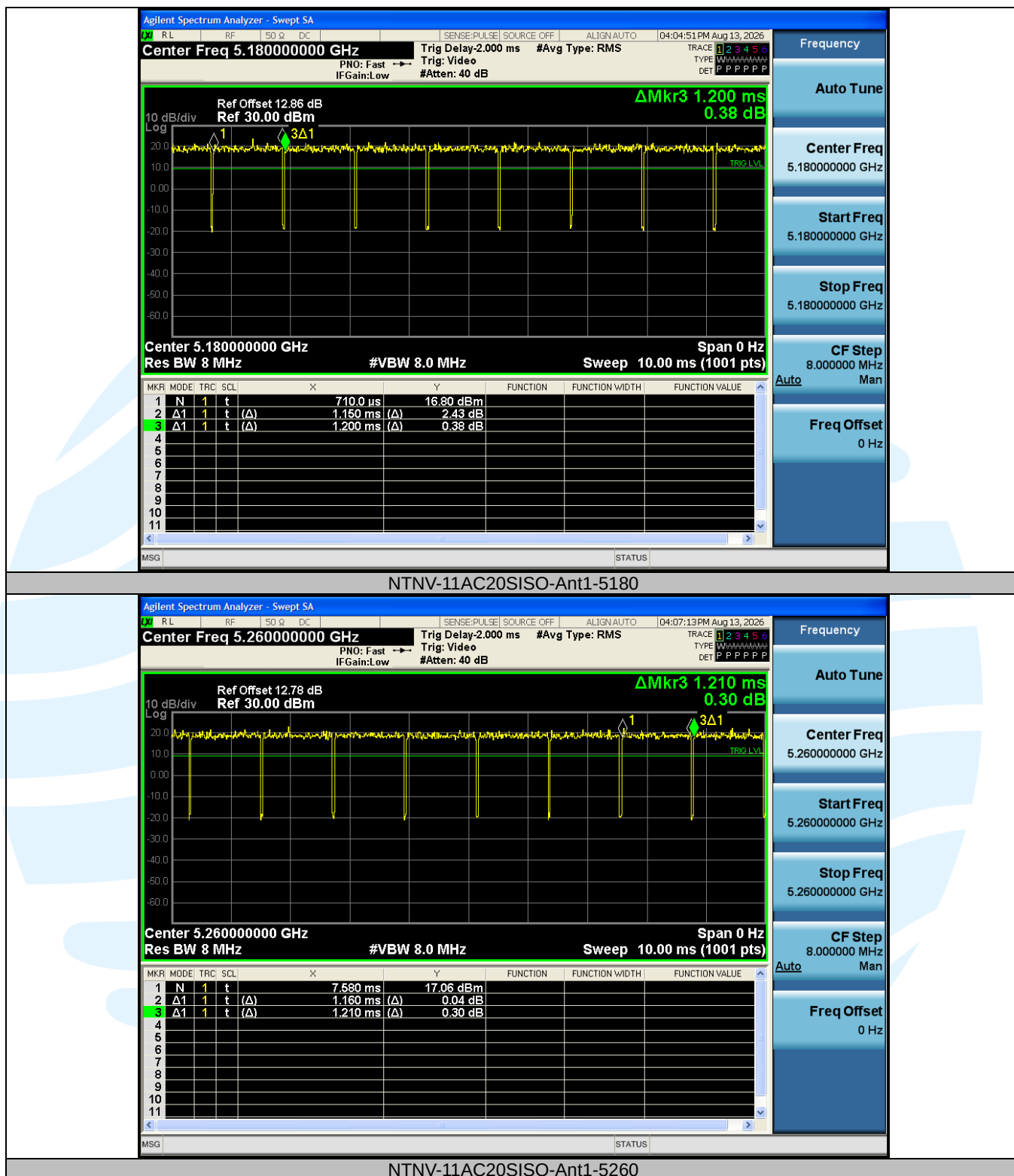
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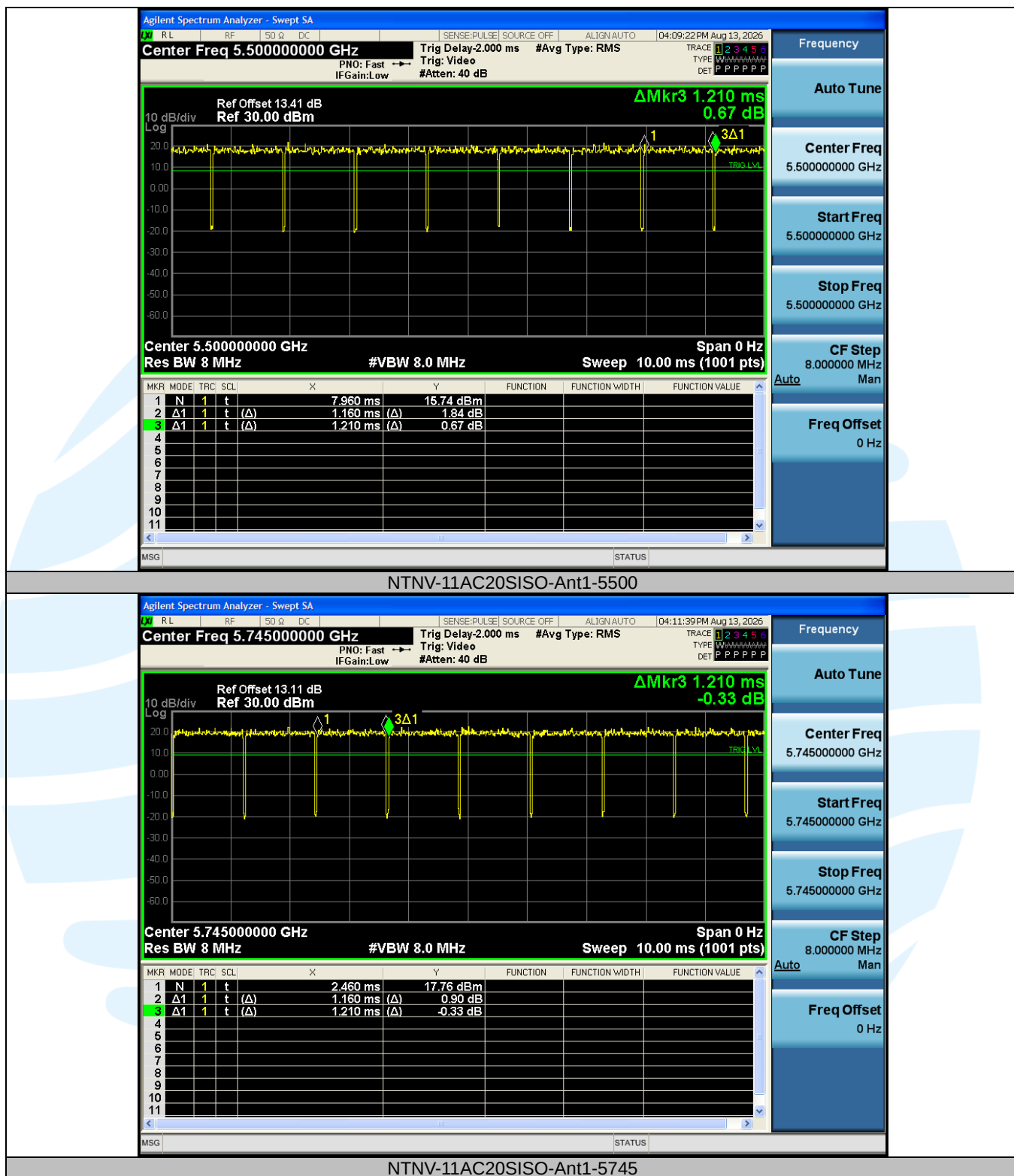
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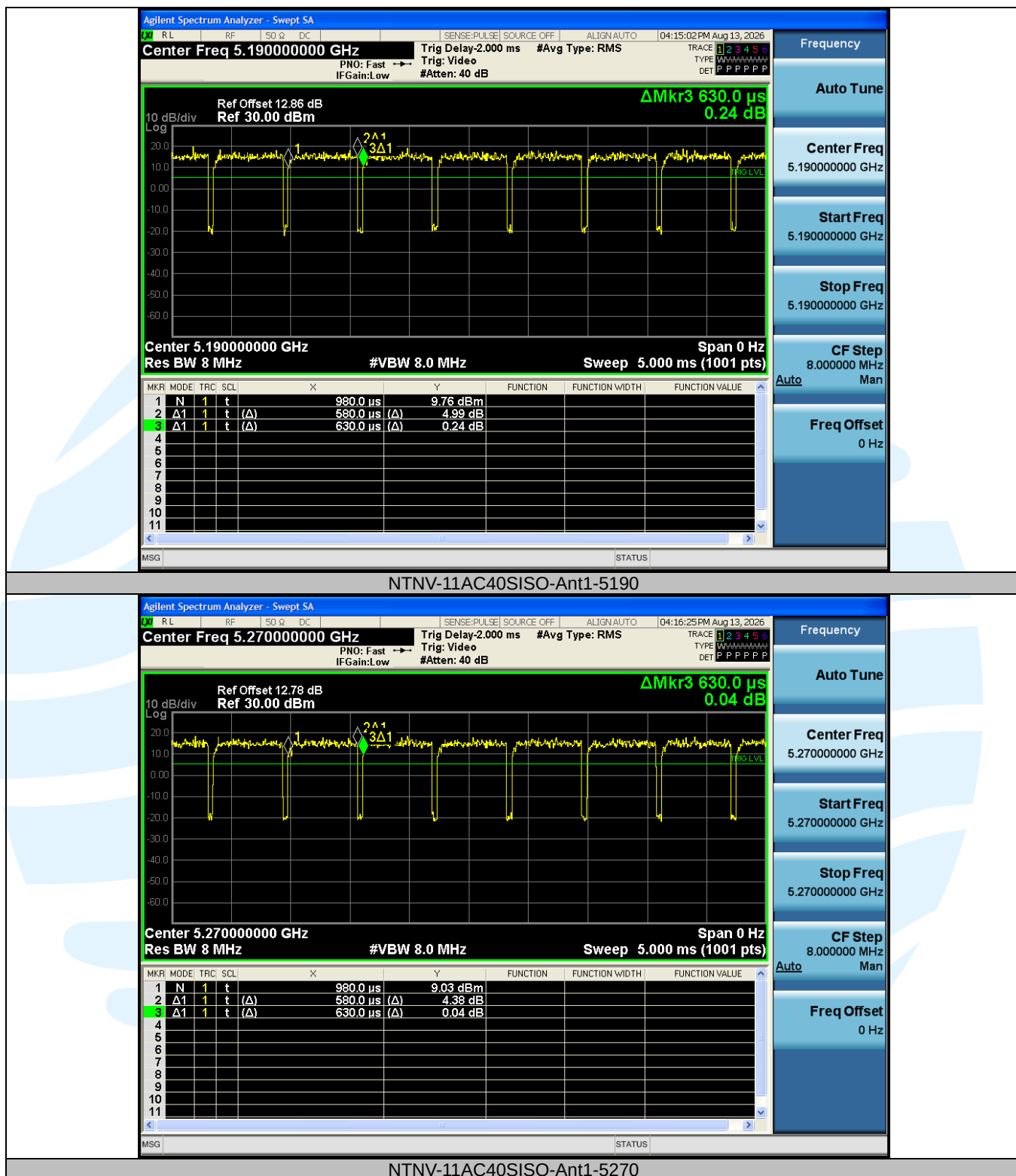
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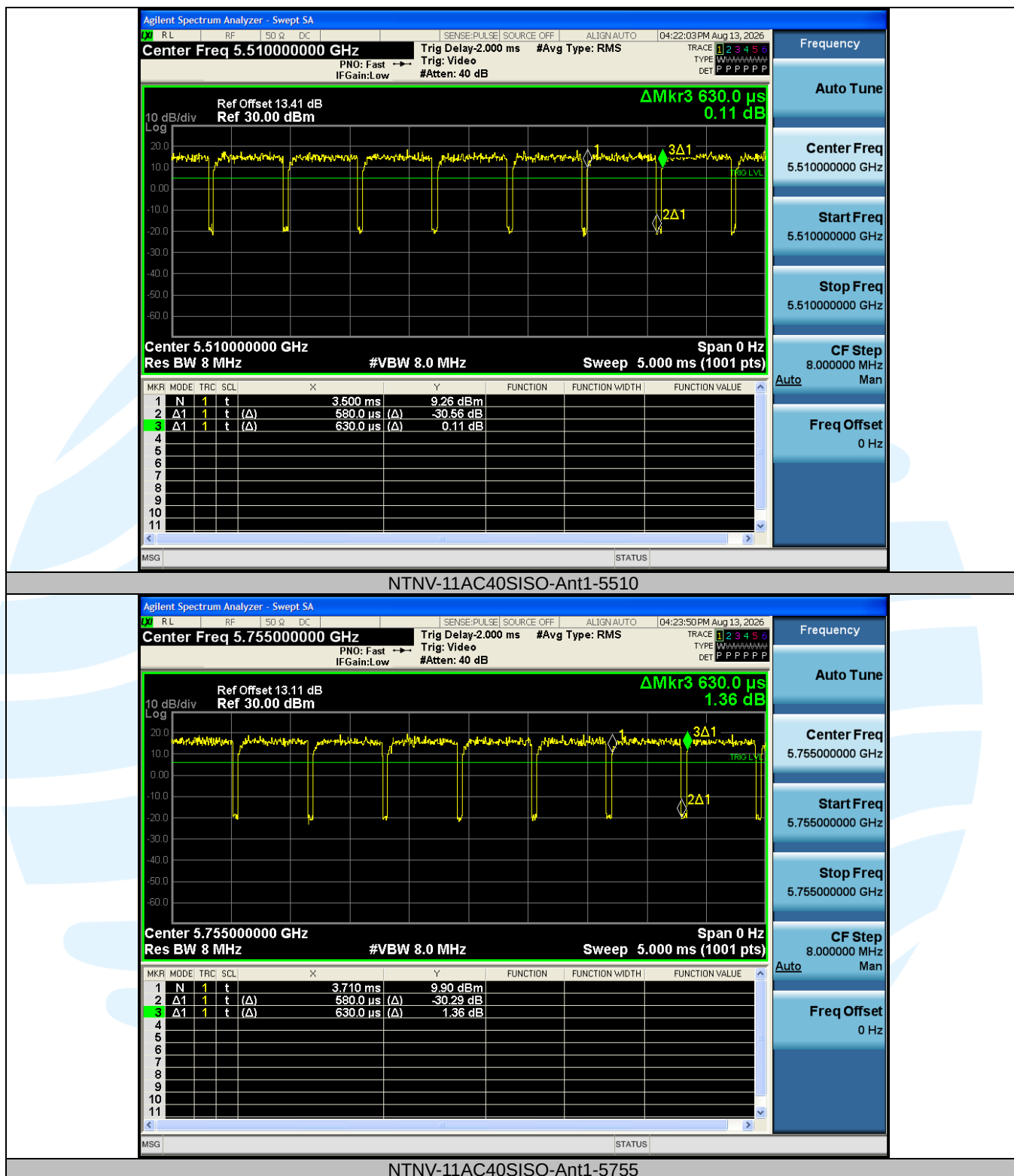
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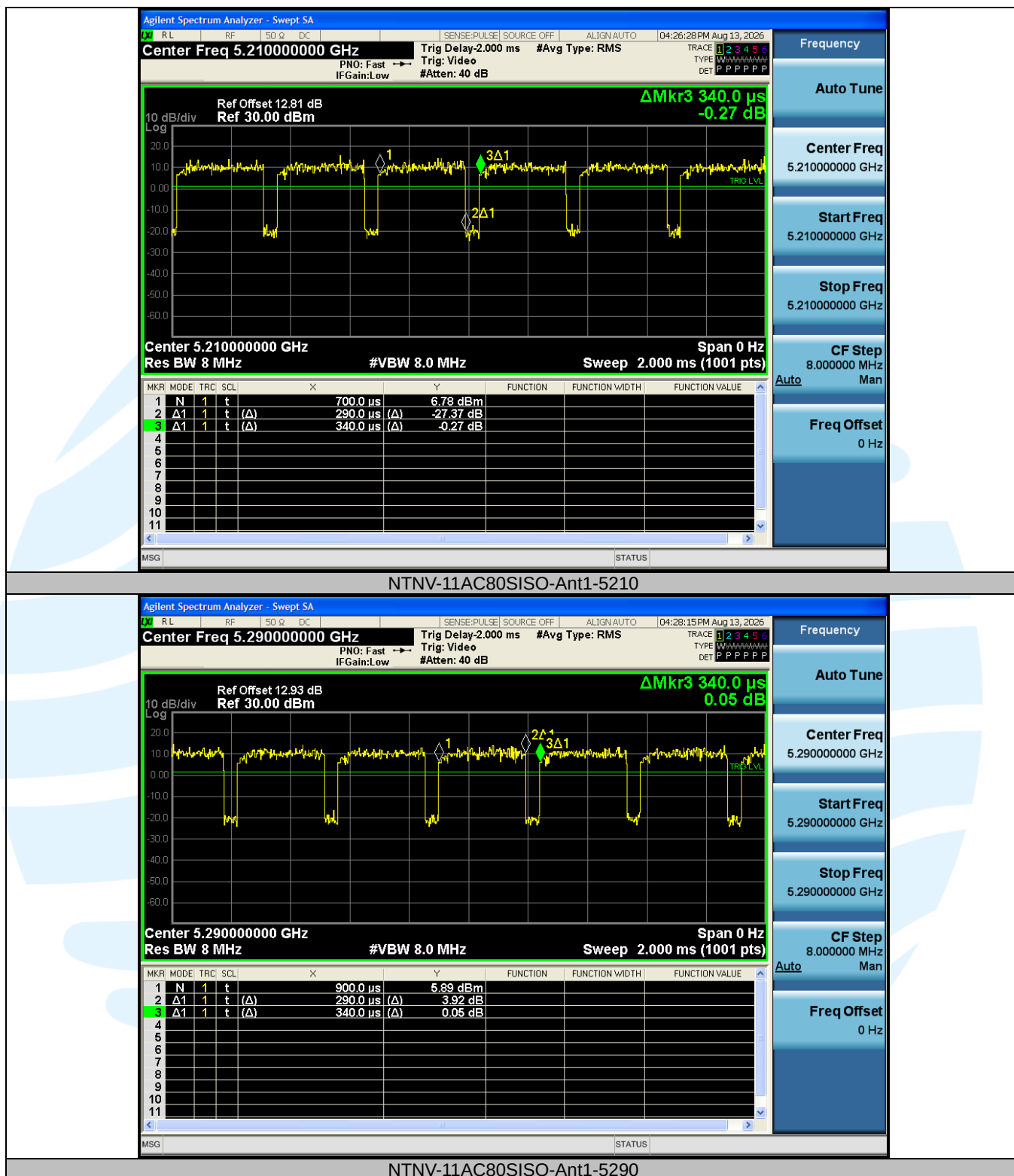
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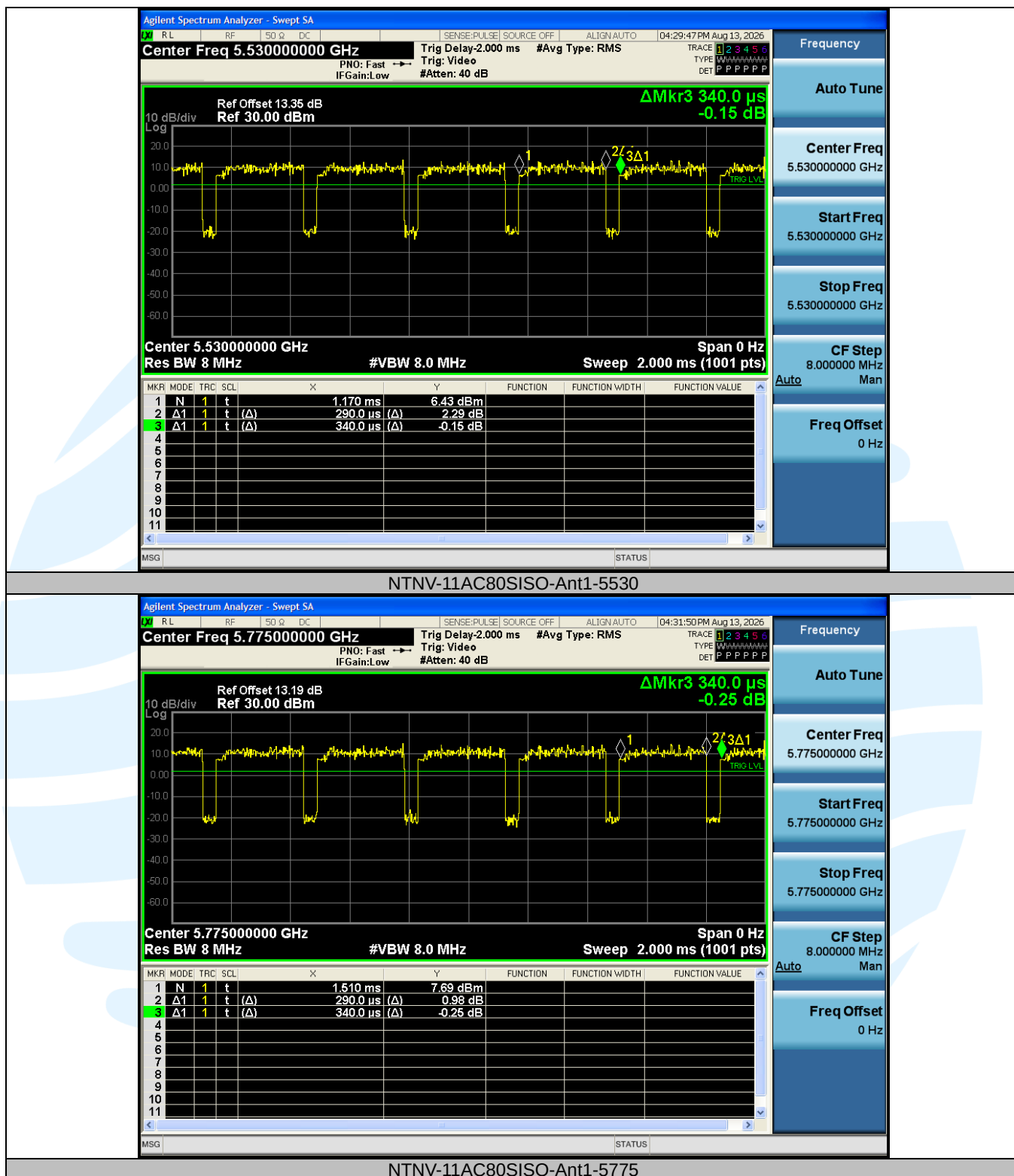
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5. RADIO TECHNICAL REQUIREMENTS SPECIFICATION

5.1 REFERENCE DOCUMENTS FOR TESTING

No.	Identity	Document Title
1	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations
2	FCC 47 CFR Part 15	Radio Frequency Devices
3	ANSI C63.10-2020	American National Standard for Testing Unlicensed Wireless Devices
4	KDB 789033 D02 General UNII Test Procedures New Rules v02r01	Guidelines for compliance testing of unlicensed national information infrastructure (U-NII) device part 15, subpart E
5	KDB 905462 D06 802.11 Channel Plans New Rules v02	Operation in U-NII bands -802.11 channel PLAN(\$15.407)
6	KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02	Compliance measurement procedures for Unlicensed –National Information Infrastructure devices operates in the frequency bands 5250 MHz to 5350 MHz and 5470 MHz to 5725 MHz bands incorporating dynamic frequency selection
7	KDB 905462 D03 Client Without DFS New Rules v01r02	U-NII client devices without radar detection capability

5.2 ANTENNA REQUIREMENT

Standard Requirement
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.407(a)(1) (2) requirement: The conducted output power limit specified in paragraph (a) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (a) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power and the peak power spectral density shall be reduced by the by the amount in dB that the directional gain of the antenna exceeds 6 dBi. EUT Antenna: Antenna in the interior of the equipment and no consideration of replacement. The gain of the antenna is 2.1 dBi.

5.326 DB BANDWIDTH

Test Requirement: FCC 47 CFR Part 15 Subpart E Section 15.407 (a) (2)(5)

Test Method: KDB 789033 D02 v02r01 Section C.1

Limit: None; for reporting purposes only.

Test Procedure:

The output from the transmitter was connected to an attenuator and then to the input of the RF Spectrum analyzer.

Spectrum analyzer according to the following Settings:

a) Set RBW = approximately 1 % of the emission bandwidth.

b) Set the VBW > RBW.

c) Detector = Peak.

d) Trace mode = max hold.

e) Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1 %.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.5.3 for details.

Instruments Used: Refer to section 3 for details

Test Mode: Tx mode

Test Results:

Test Mode	Antenna	Frequency[MHz]	26db EBW [MHz]
11A	Ant1	5180	29.93
11A	Ant1	5200	27.45
11A	Ant1	5240	32.43
11A	Ant1	5260	34.48
11A	Ant1	5280	31.52
11A	Ant1	5320	34.50
11A	Ant1	5500	30.44
11A	Ant1	5600	33.36
11A	Ant1	5700	34.42
11N20SISO	Ant1	5180	30.67
11N20SISO	Ant1	5200	27.41
11N20SISO	Ant1	5240	26.70
11N20SISO	Ant1	5260	24.14
11N20SISO	Ant1	5280	29.15
11N20SISO	Ant1	5320	28.04
11N20SISO	Ant1	5500	28.22
11N20SISO	Ant1	5600	26.89
11N20SISO	Ant1	5700	29.61
11N40SISO	Ant1	5190	46.77
11N40SISO	Ant1	5230	43.90
11N40SISO	Ant1	5270	39.56
11N40SISO	Ant1	5310	40.07
11N40SISO	Ant1	5510	49.96
11N40SISO	Ant1	5590	47.21
11N40SISO	Ant1	5670	46.83
11AC20SISO	Ant1	5180	30.11
11AC20SISO	Ant1	5200	28.74
11AC20SISO	Ant1	5240	27.85
11AC20SISO	Ant1	5260	30.65
11AC20SISO	Ant1	5280	28.08
11AC20SISO	Ant1	5320	27.34
11AC20SISO	Ant1	5500	23.07
11AC20SISO	Ant1	5600	26.14
11AC20SISO	Ant1	5700	30.39
11AC40SISO	Ant1	5190	39.40

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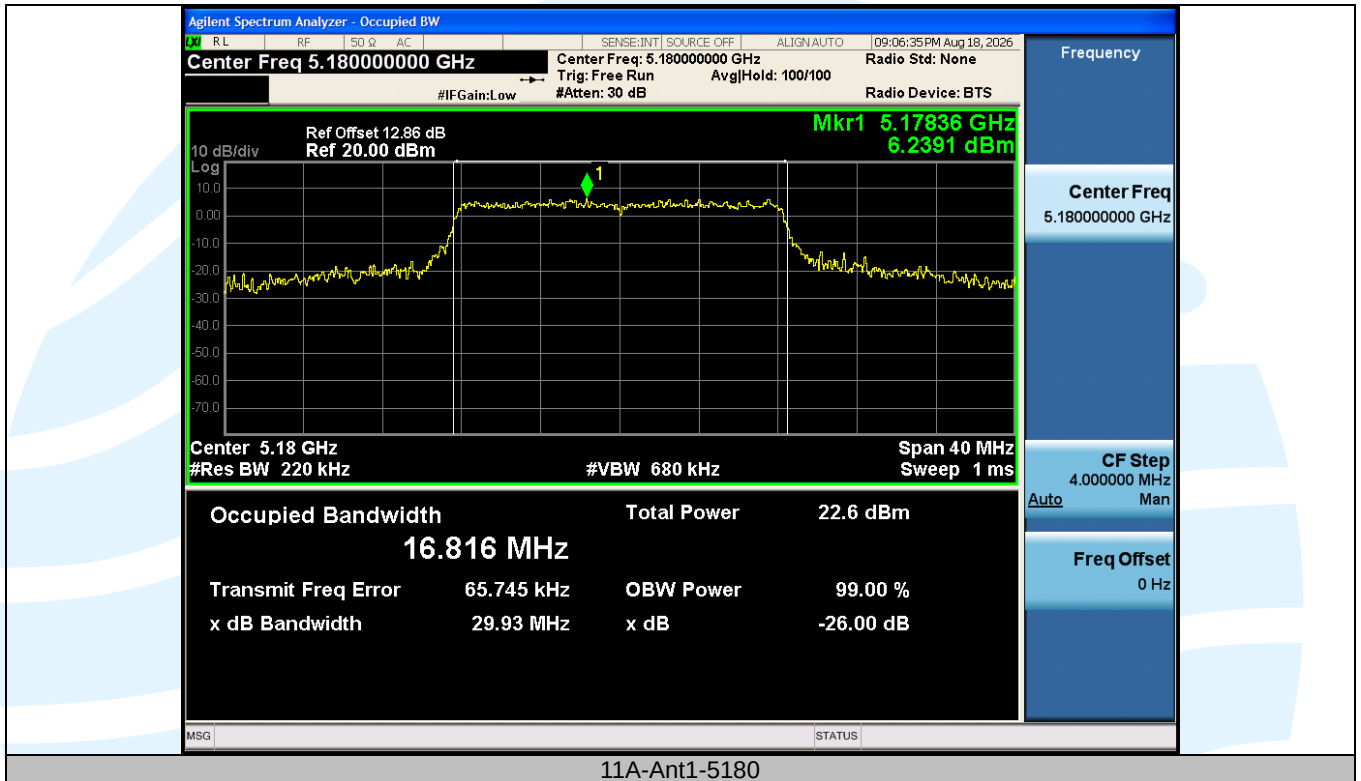
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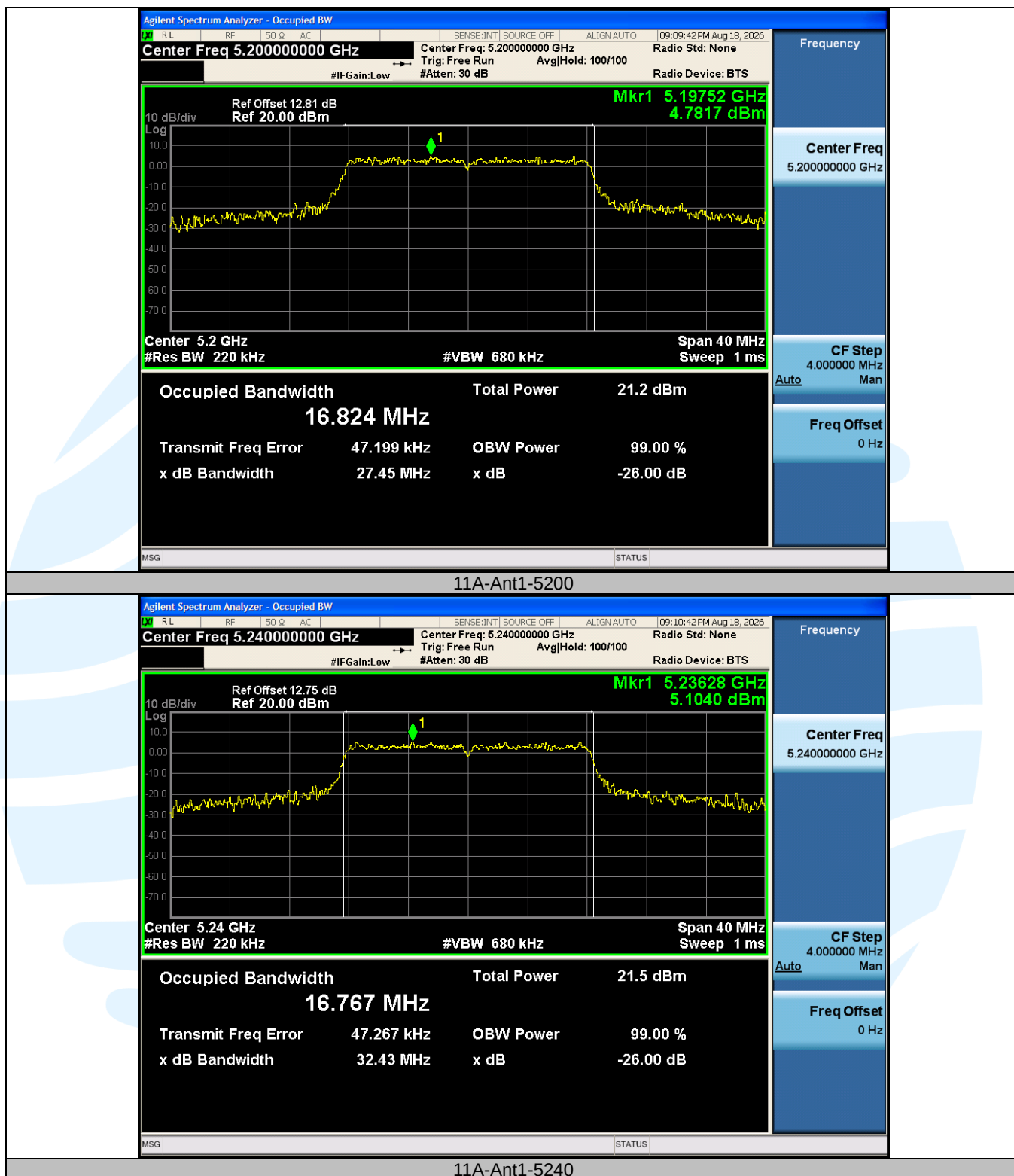
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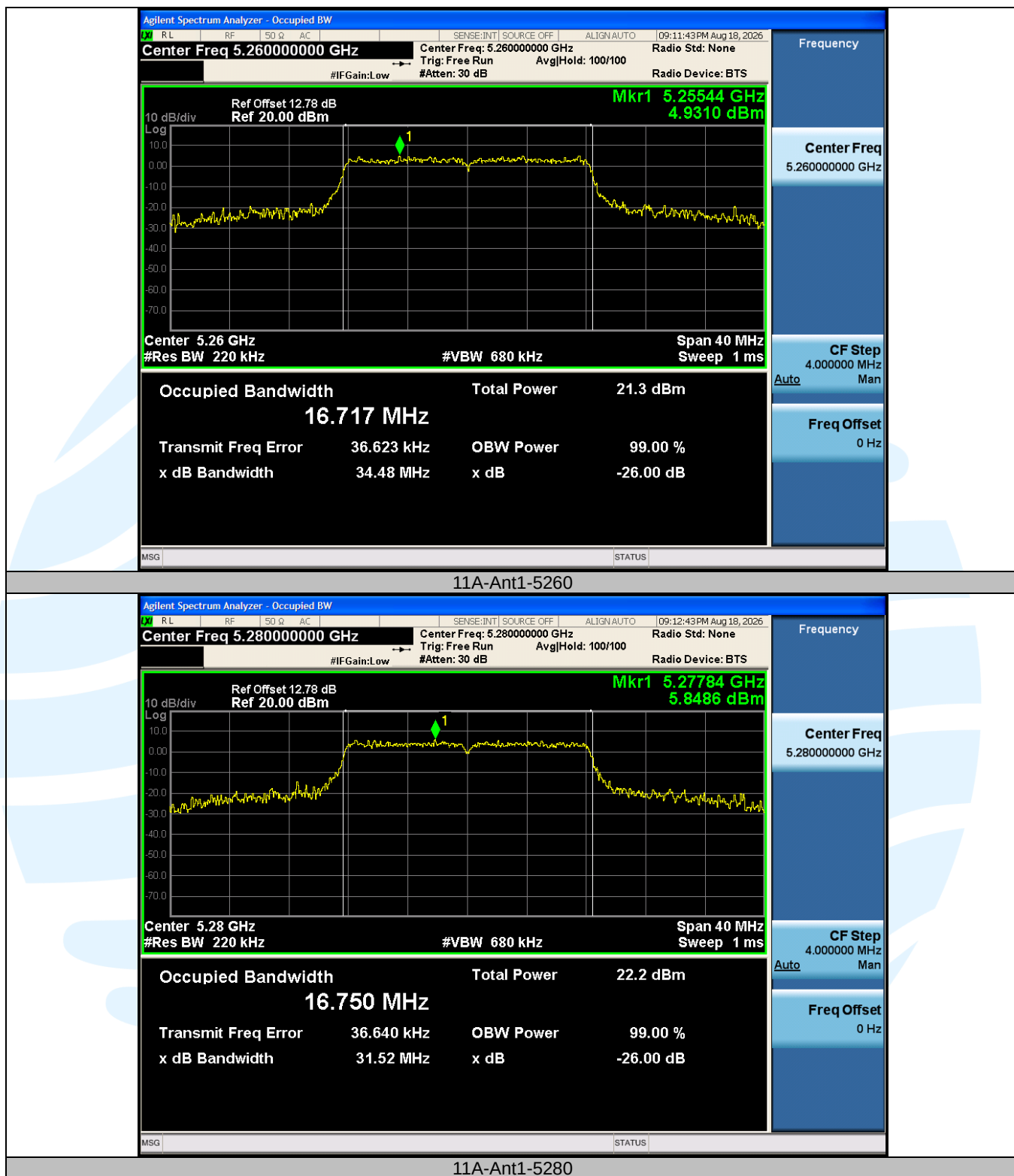
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11AC40SISO	Ant1	5230	40.40
11AC40SISO	Ant1	5270	40.88
11AC40SISO	Ant1	5310	39.45
11AC40SISO	Ant1	5510	39.60
11AC40SISO	Ant1	5590	39.49
11AC40SISO	Ant1	5670	45.97
11AC80SISO	Ant1	5210	83.12
11AC80SISO	Ant1	5290	88.07
11AC80SISO	Ant1	5530	89.61
11AC80SISO	Ant1	5610	85.16







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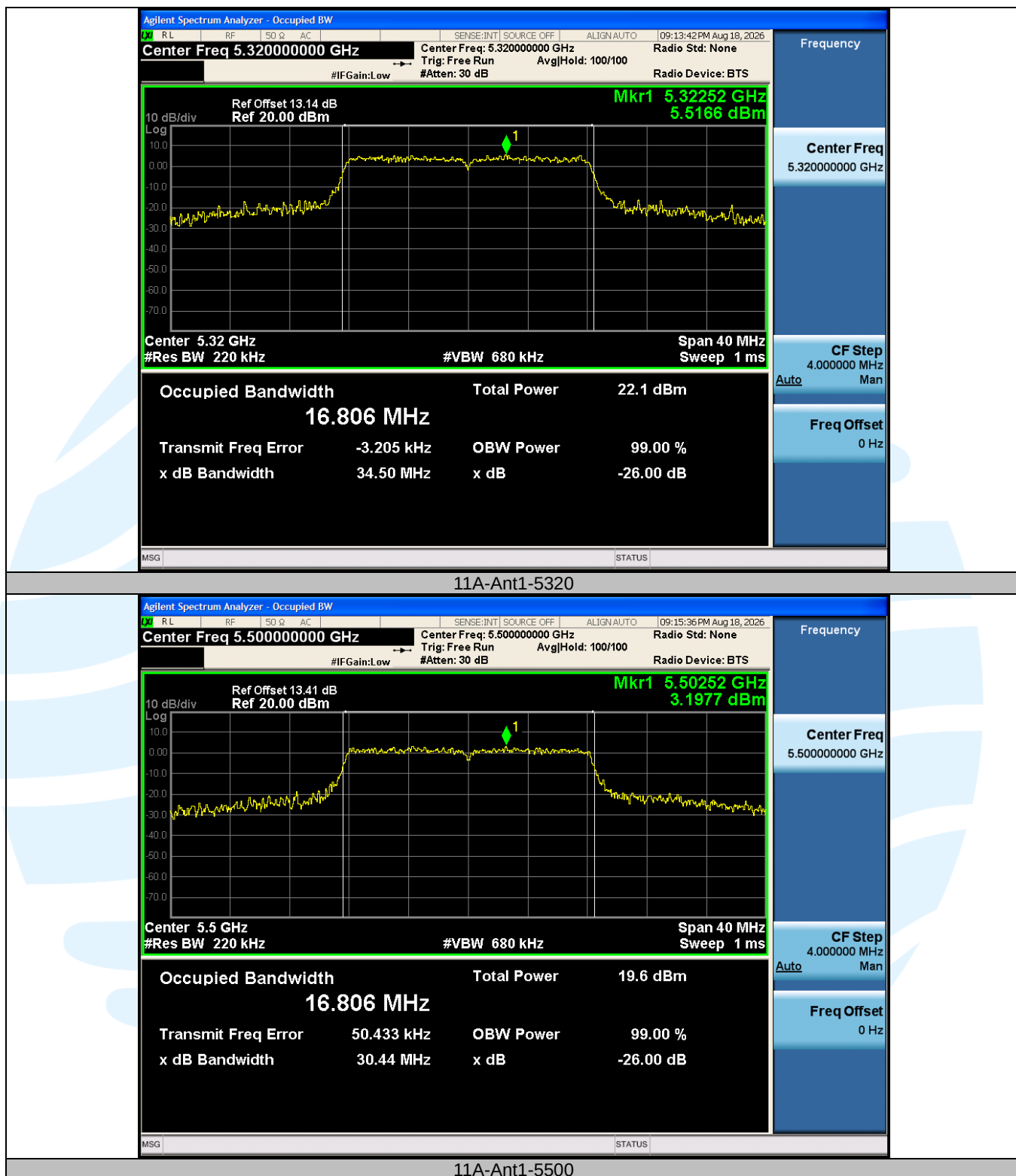
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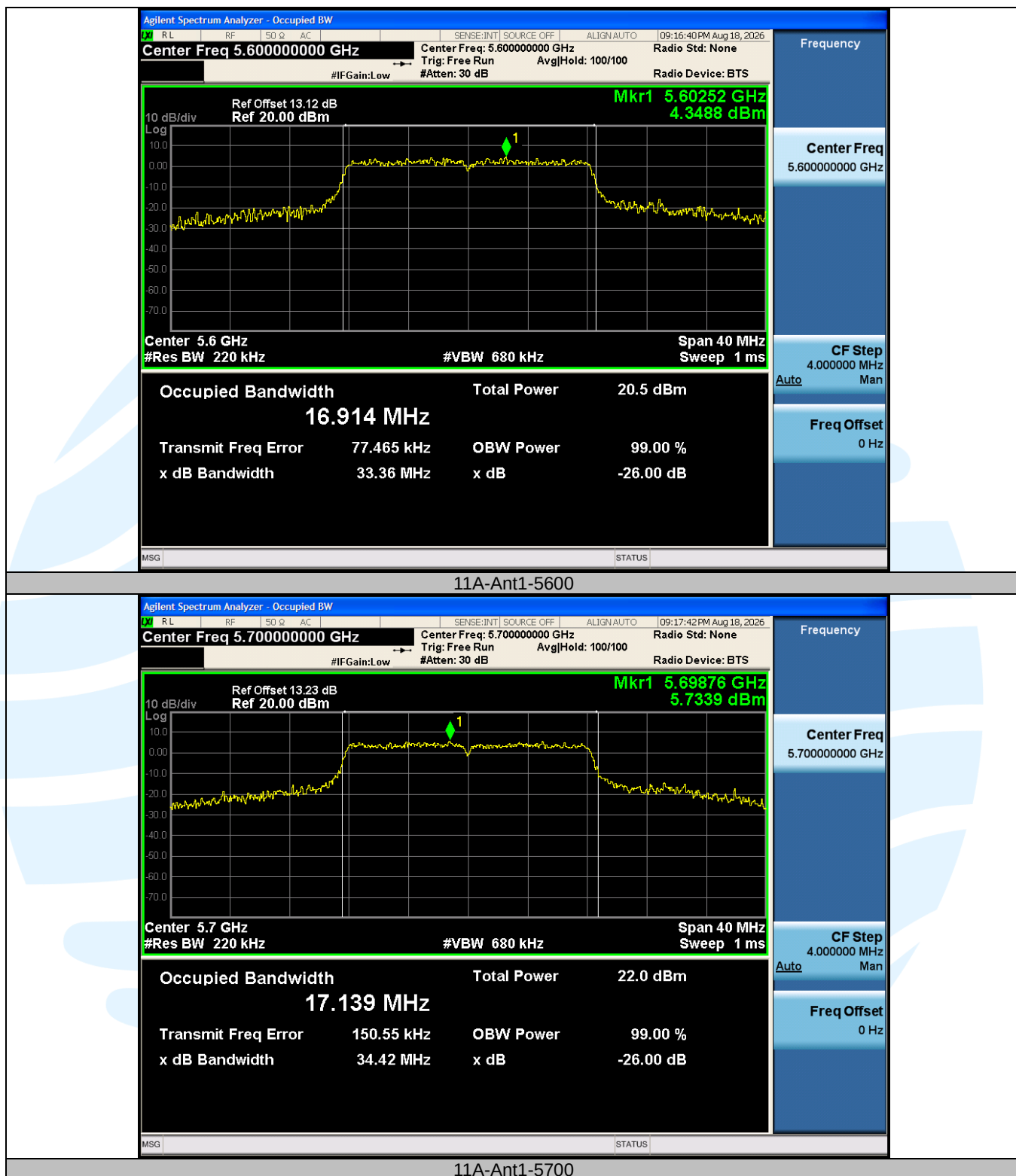
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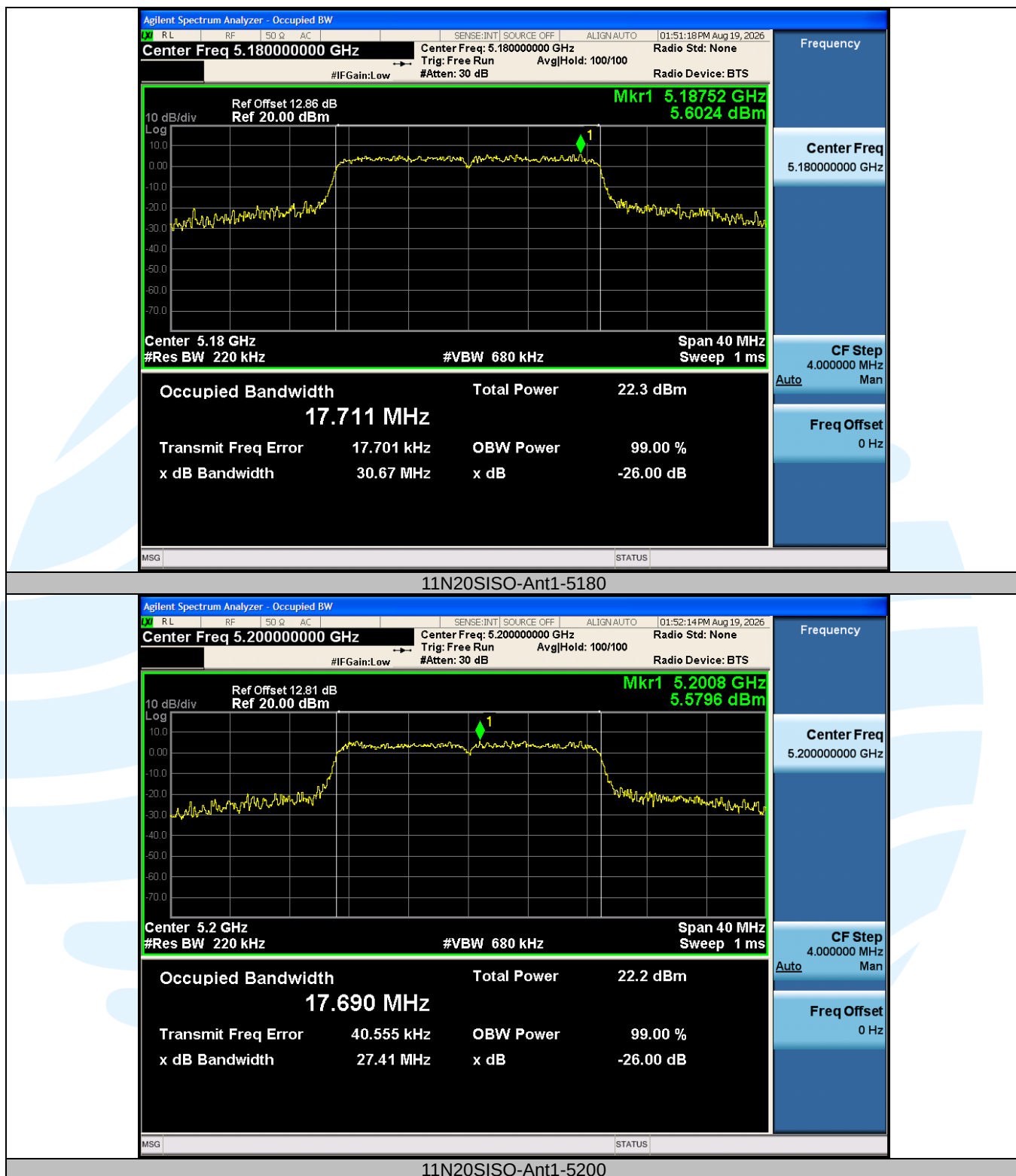
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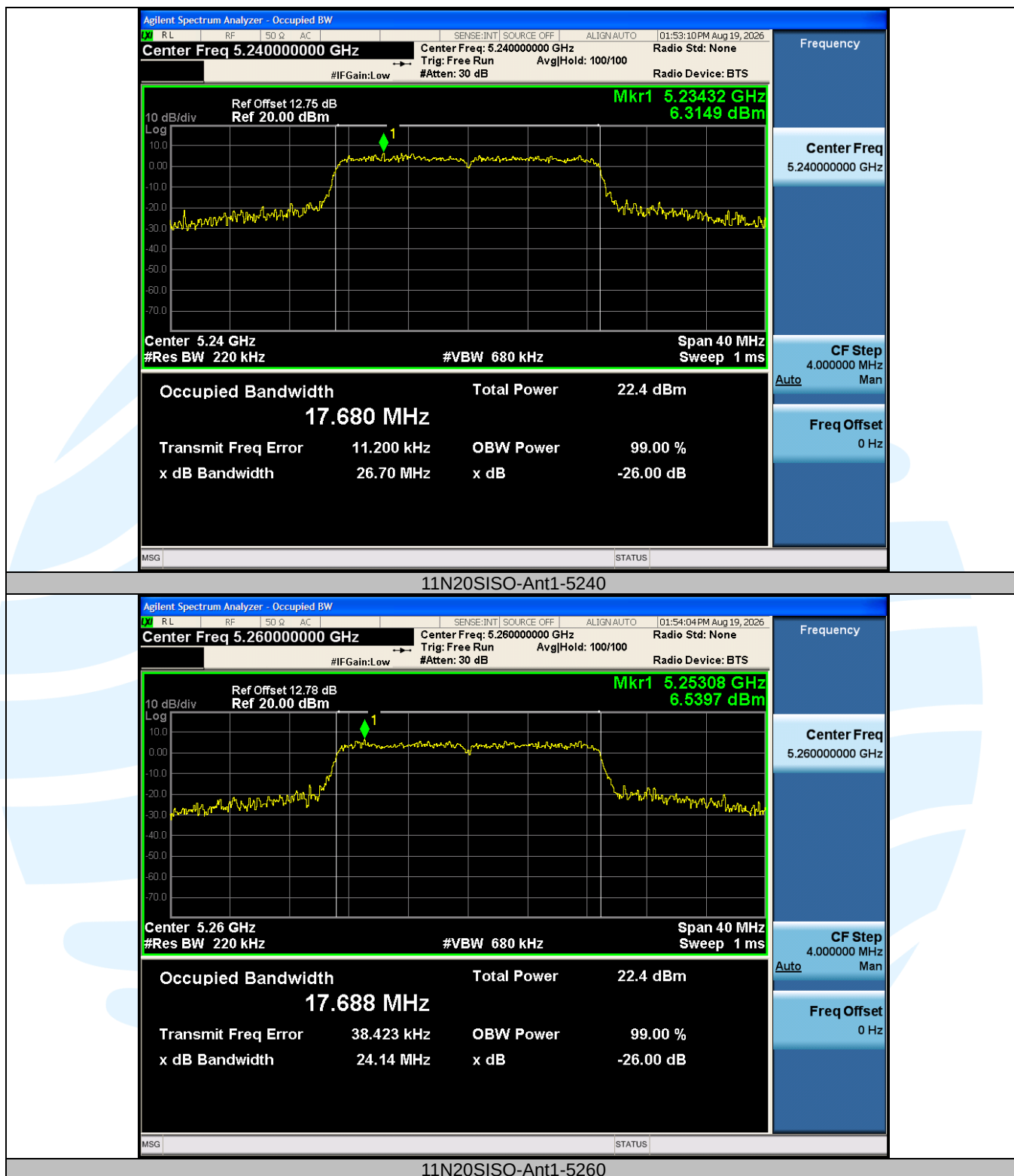
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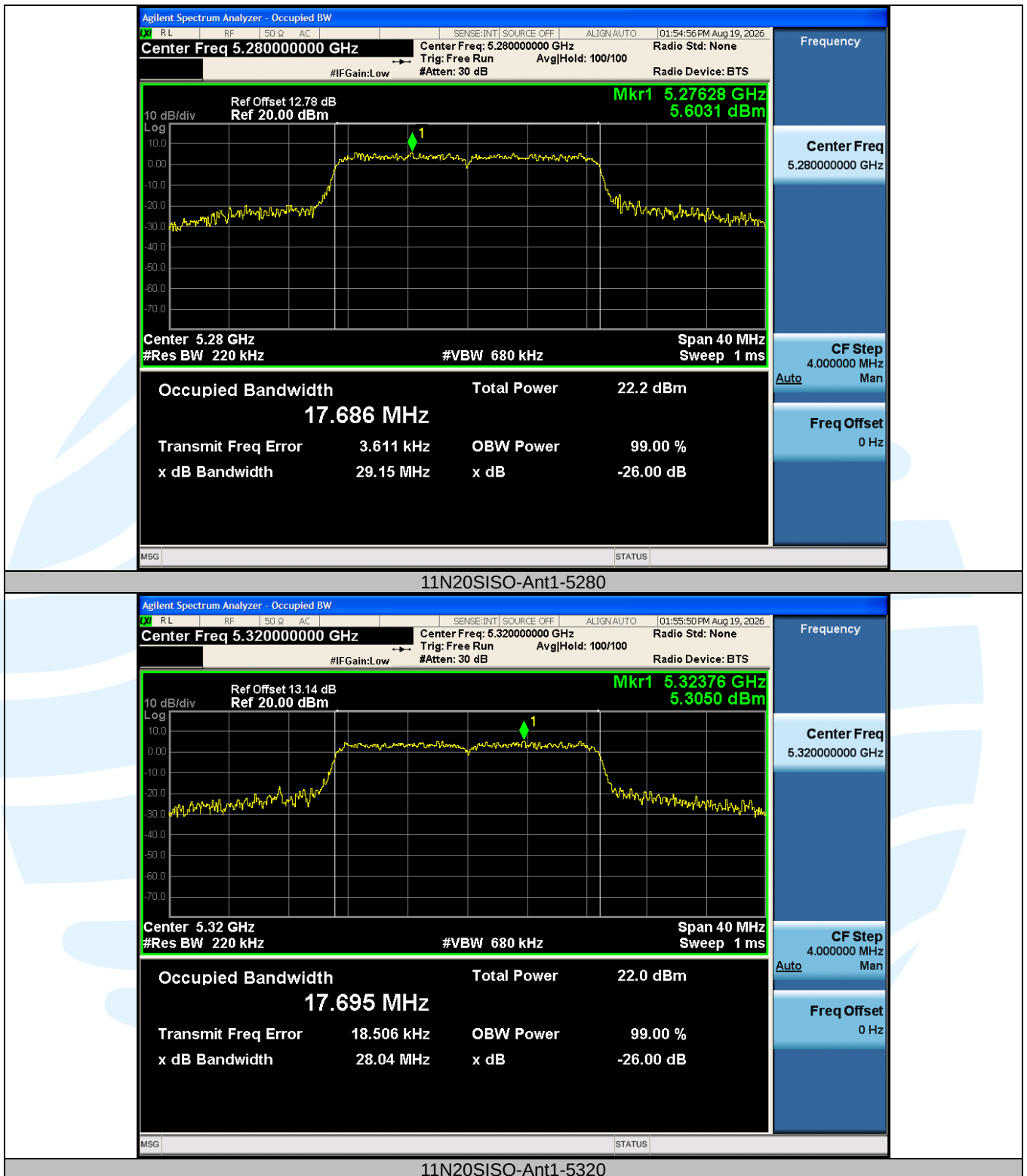
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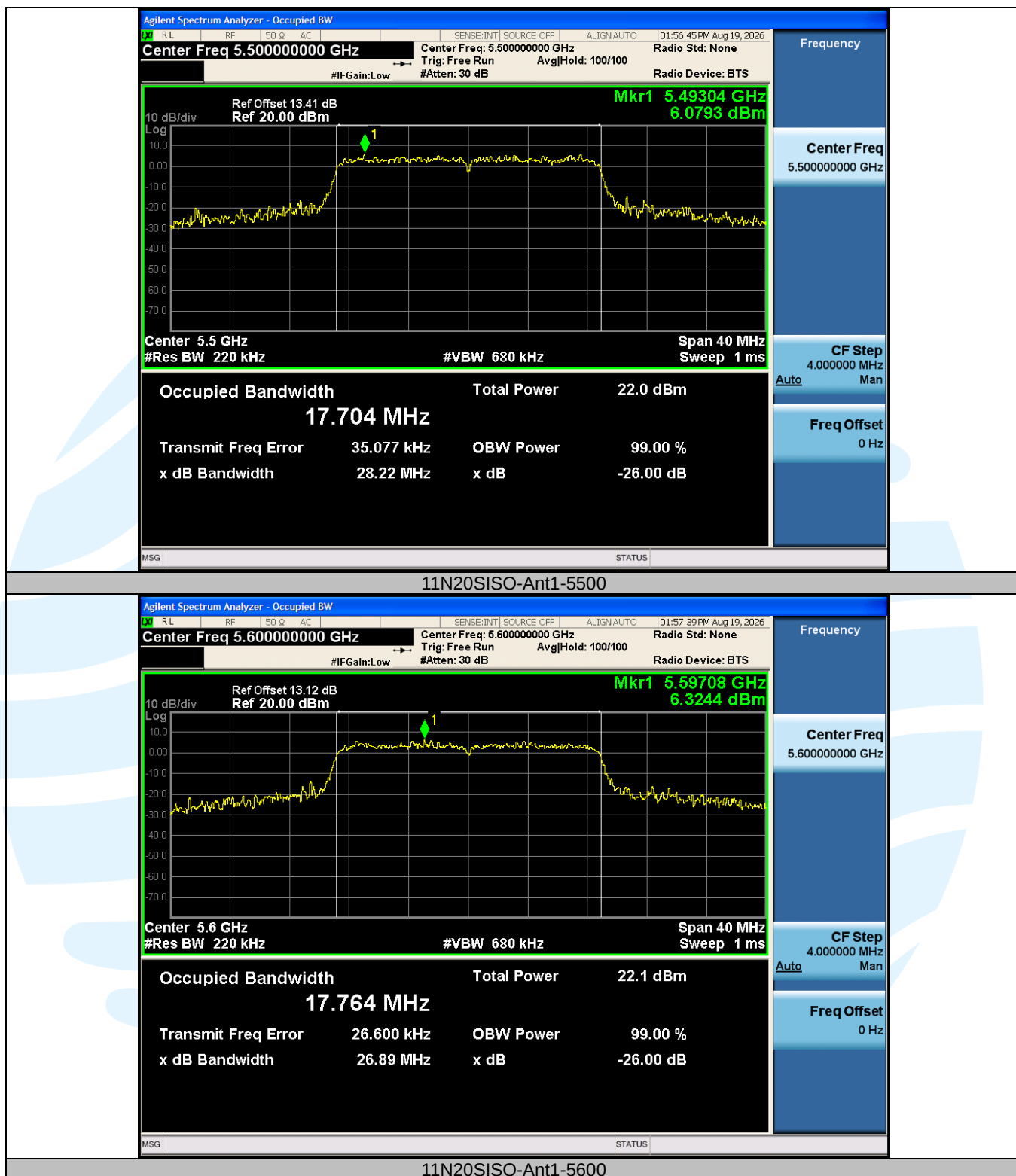
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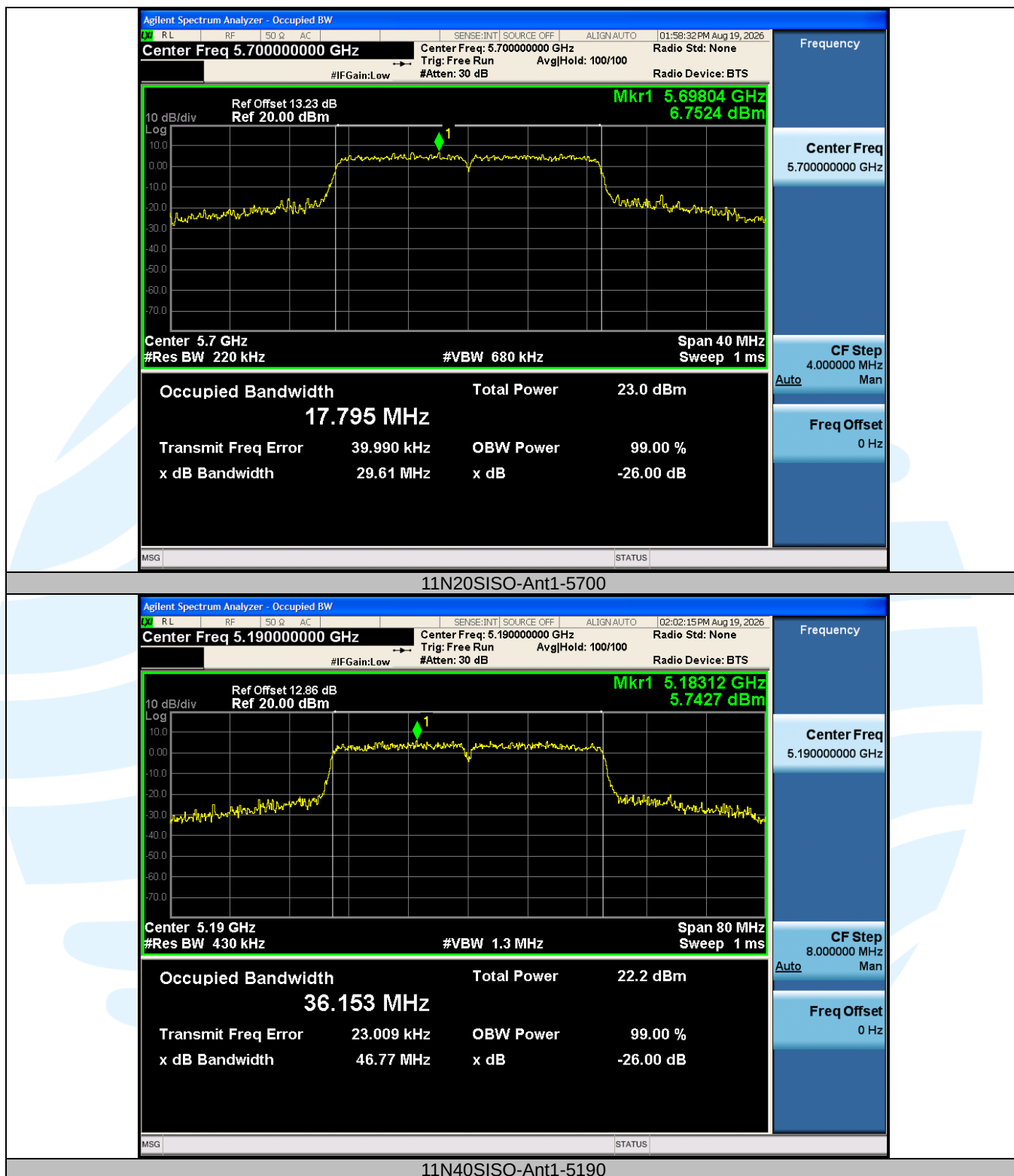
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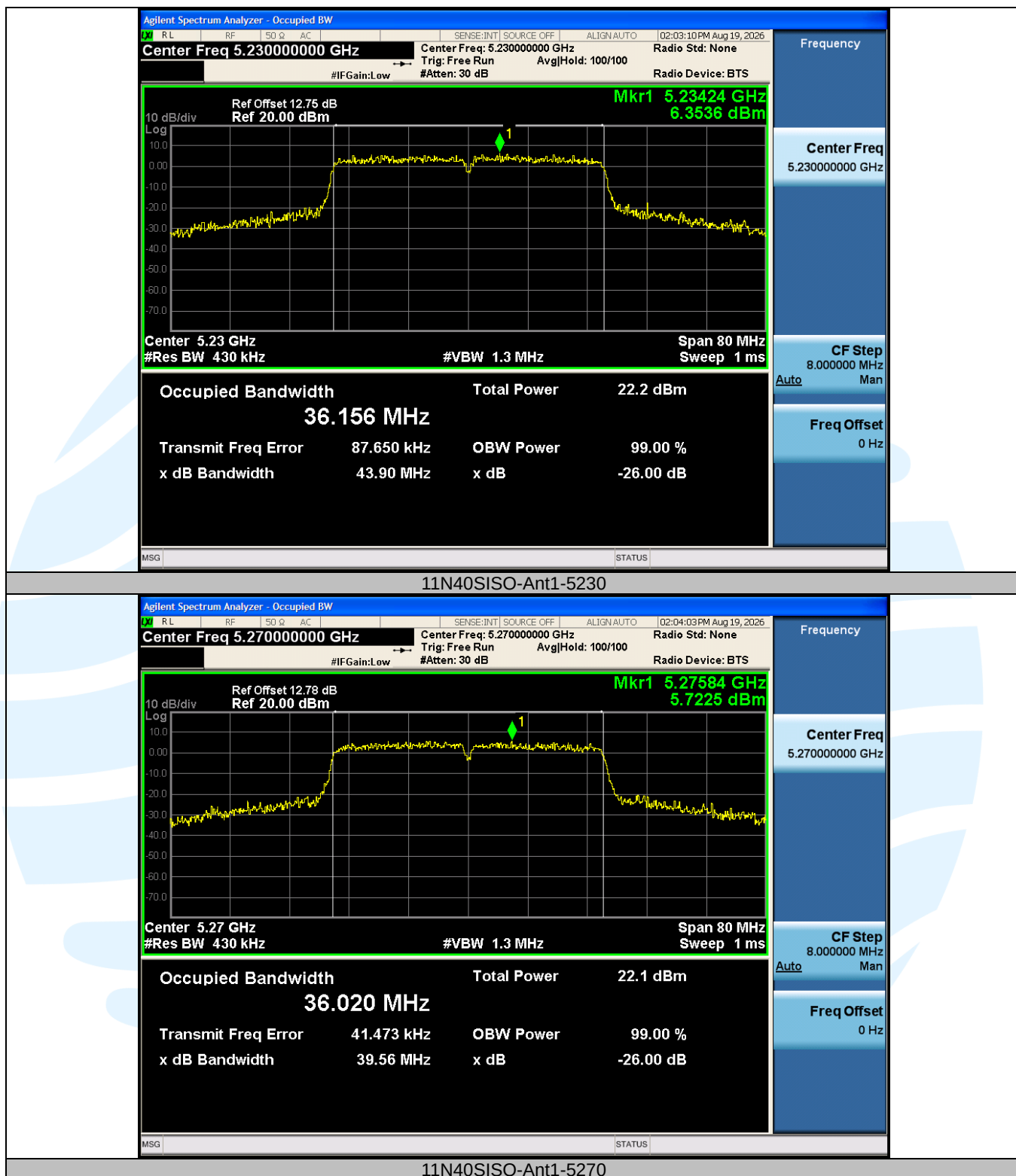
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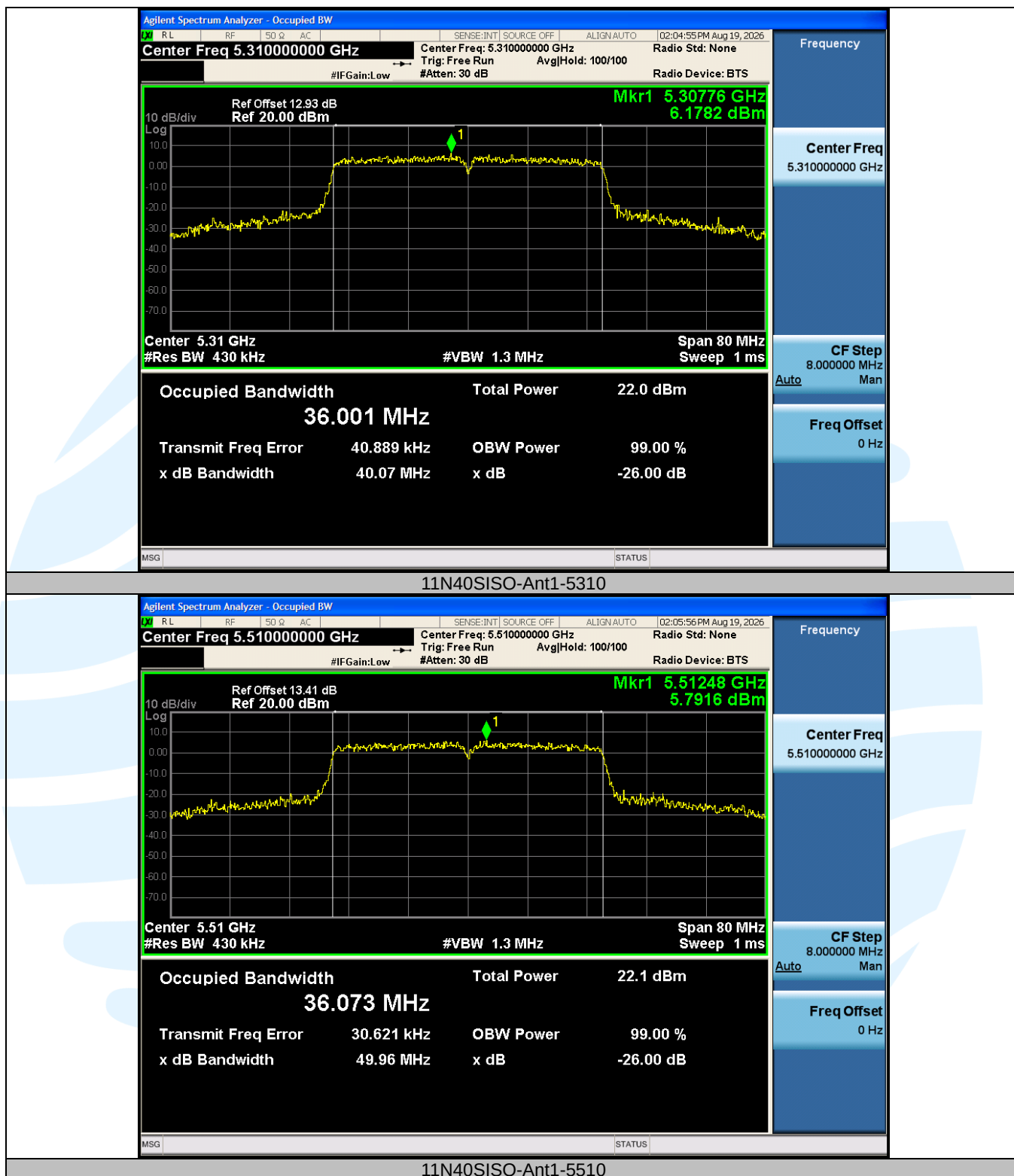
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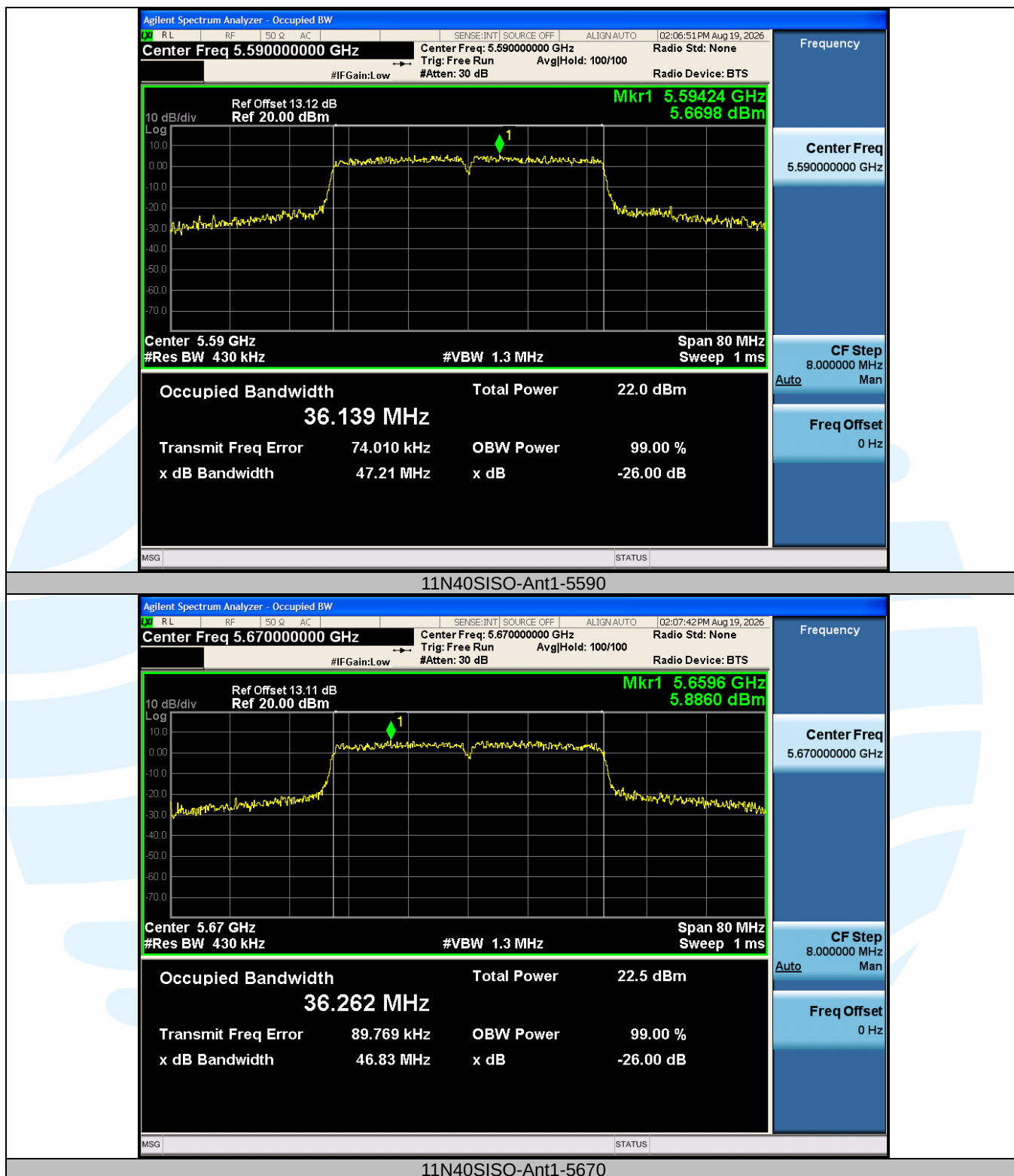


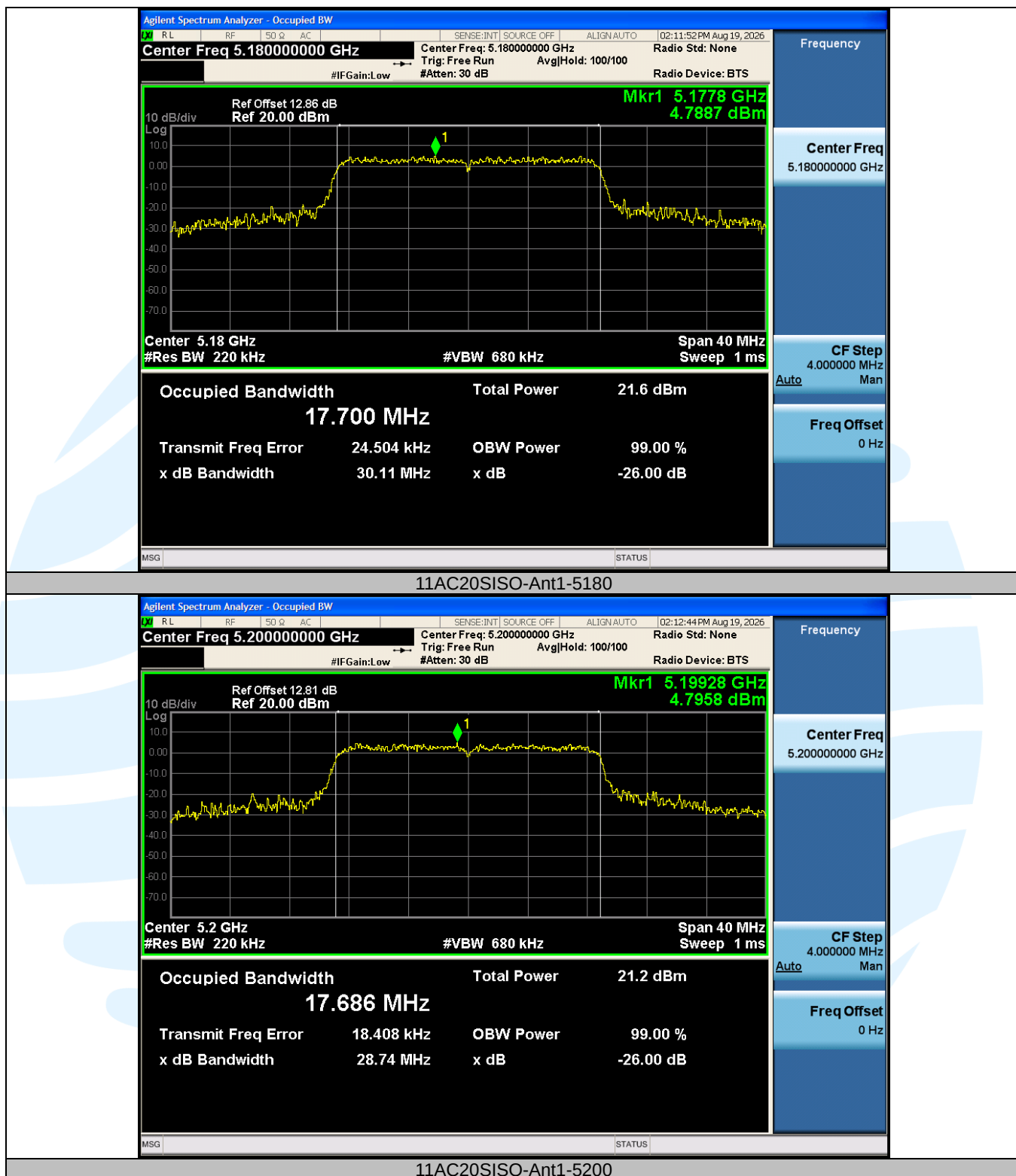


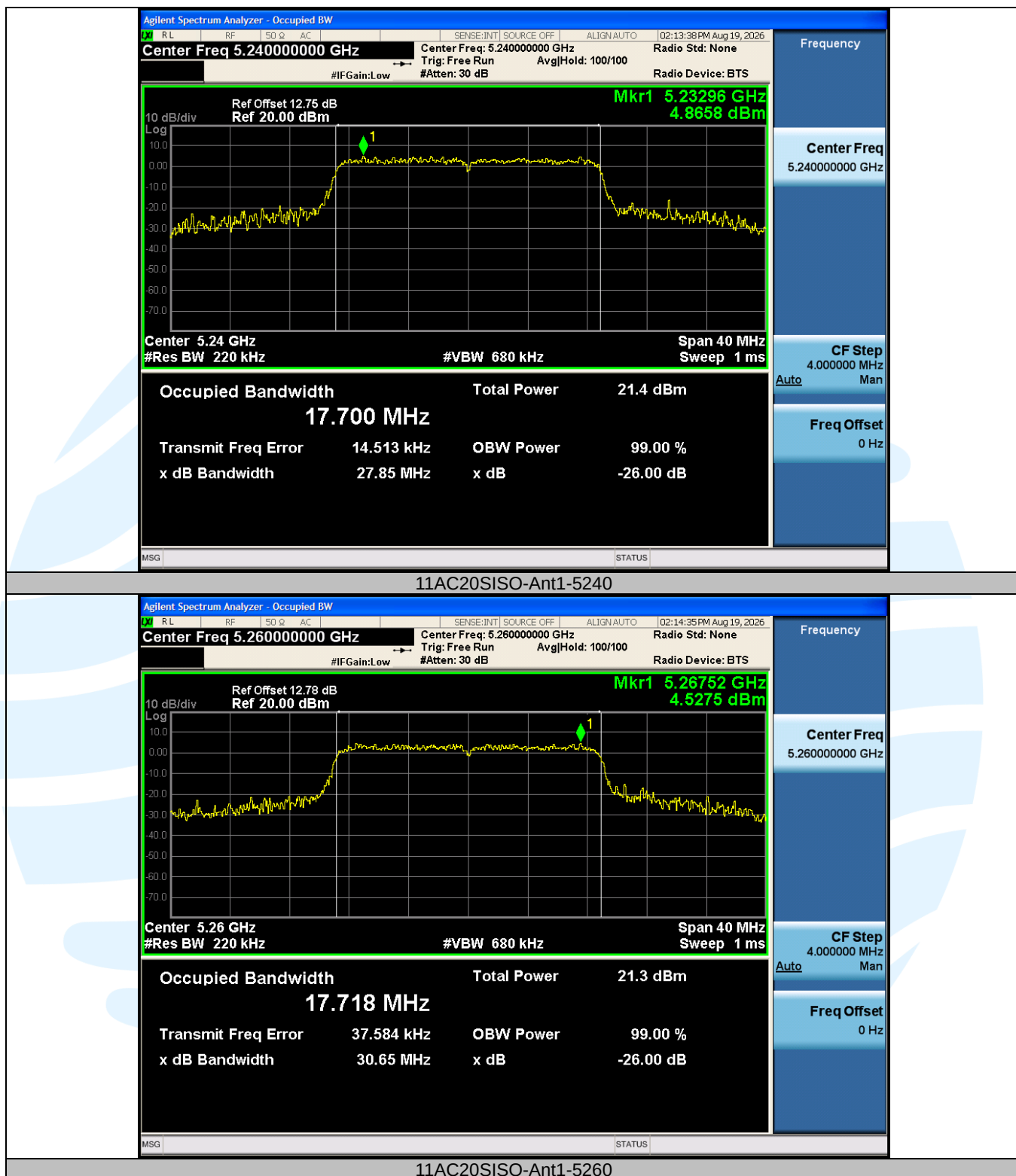












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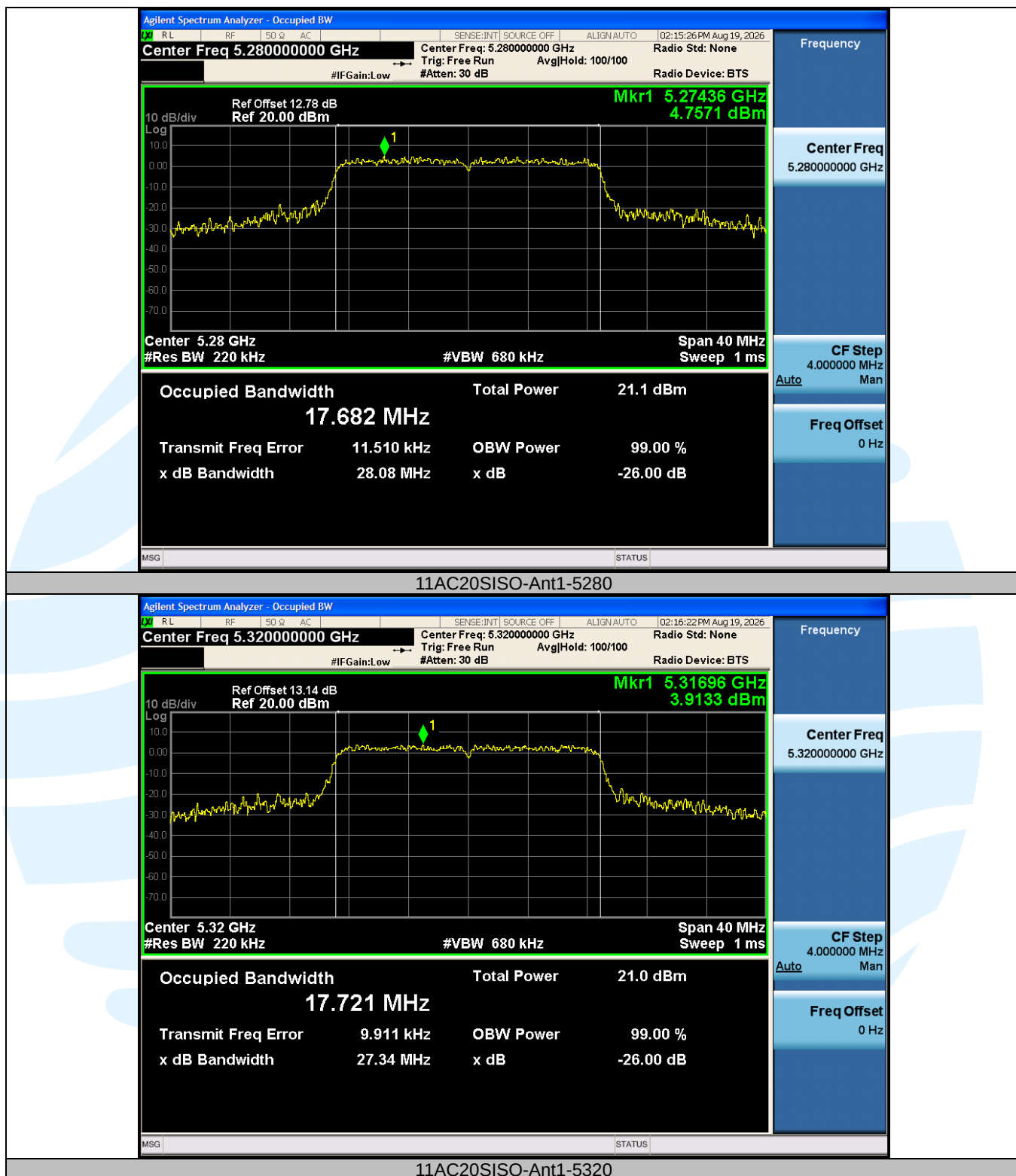
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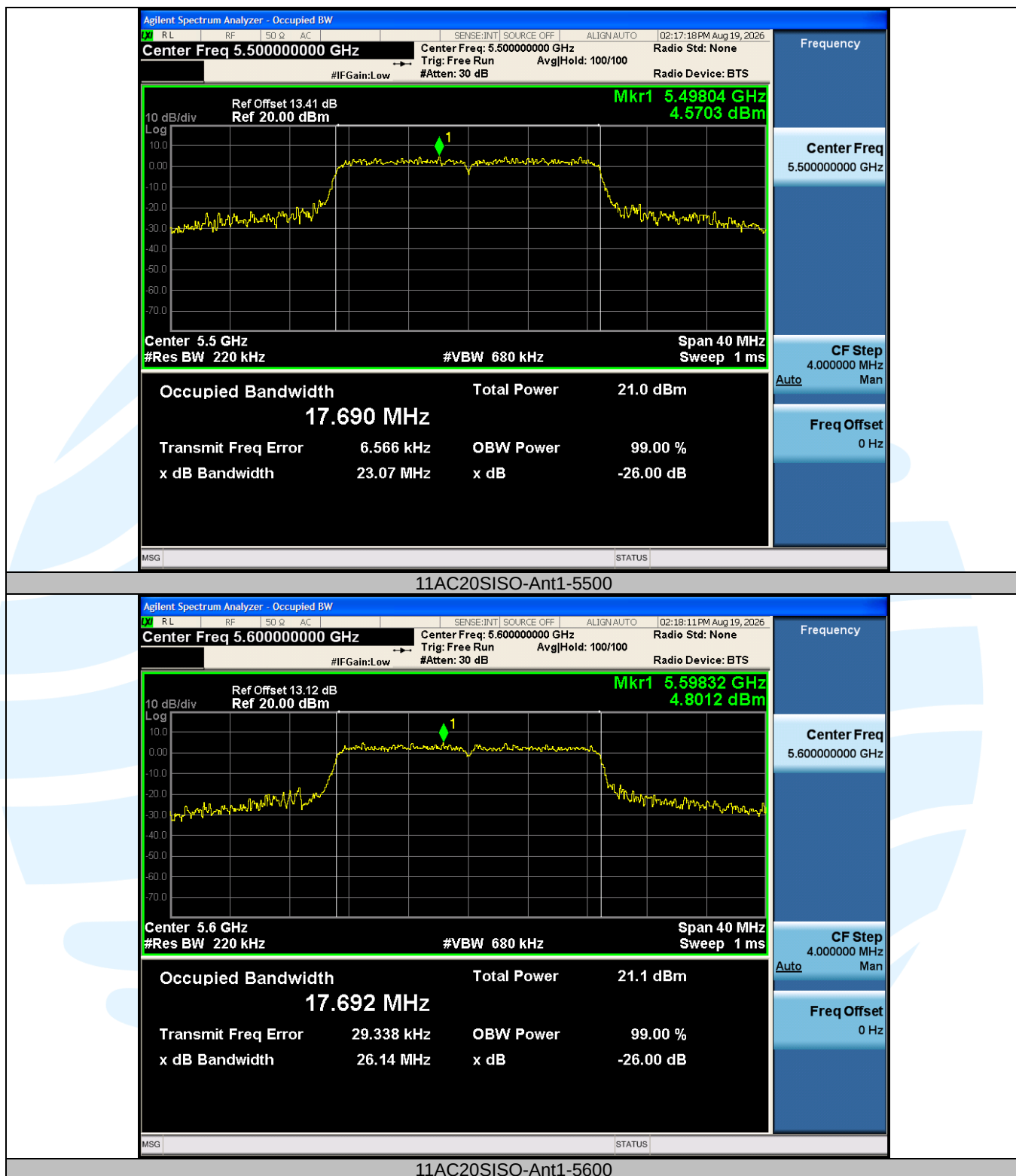
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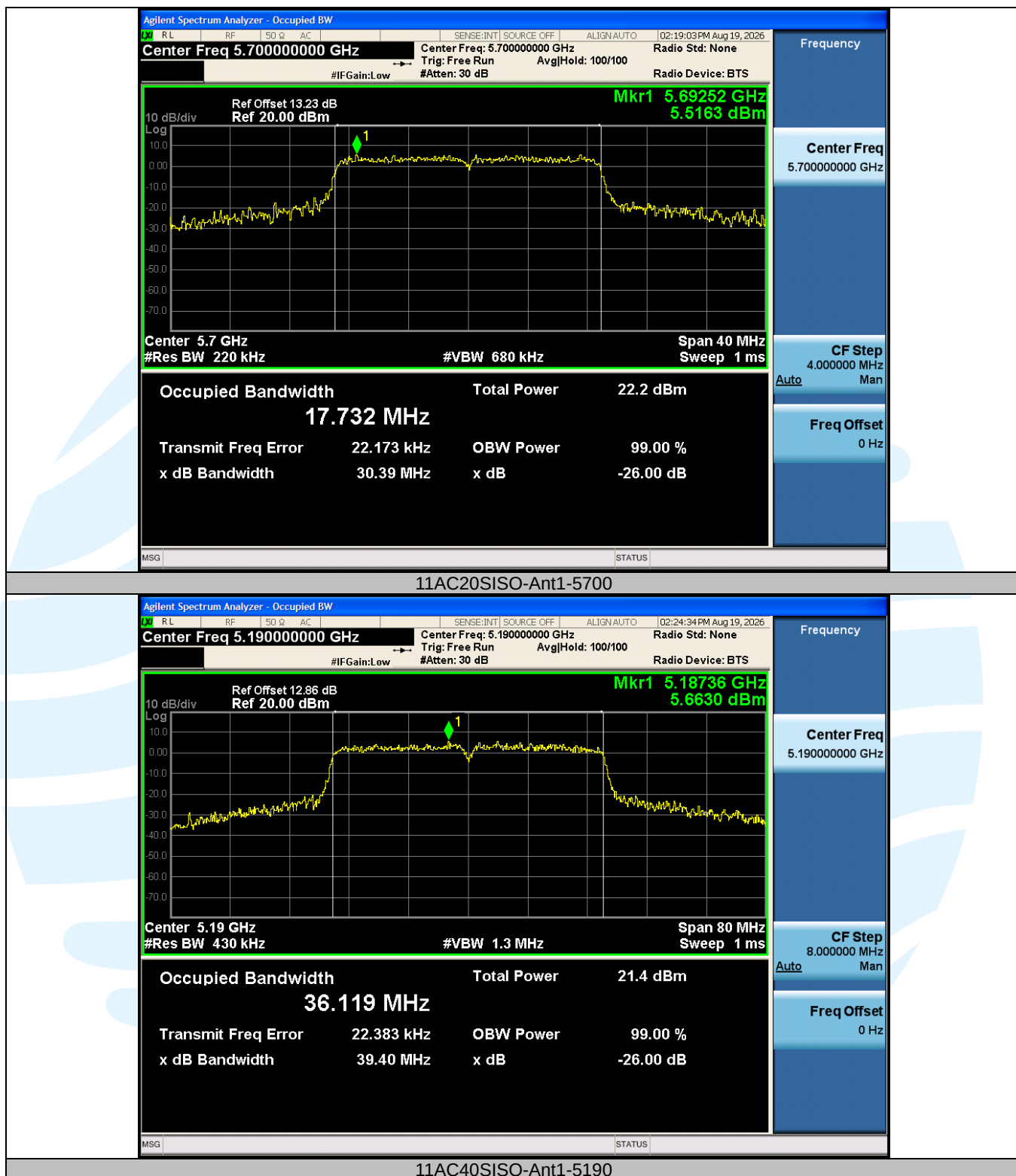
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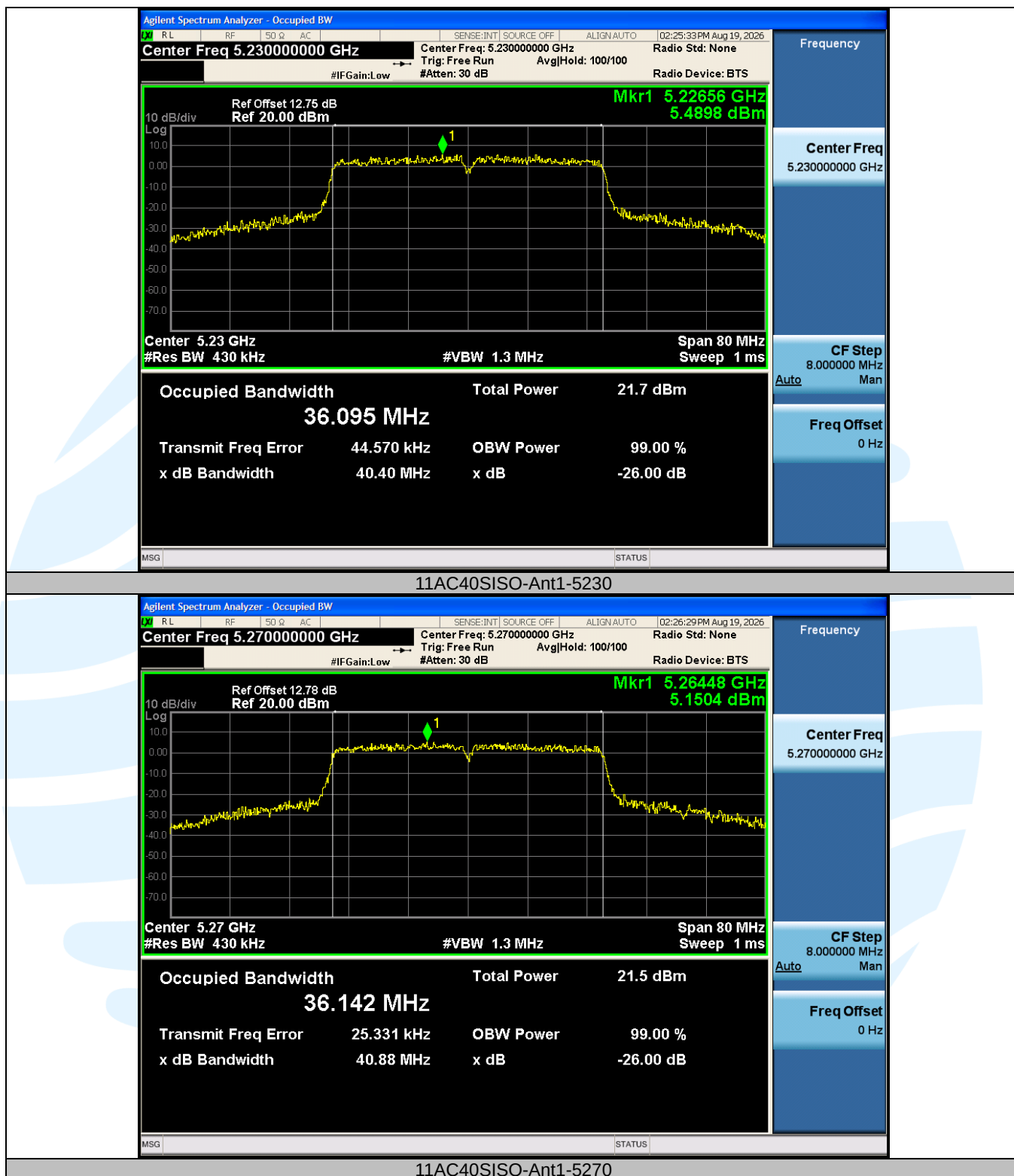
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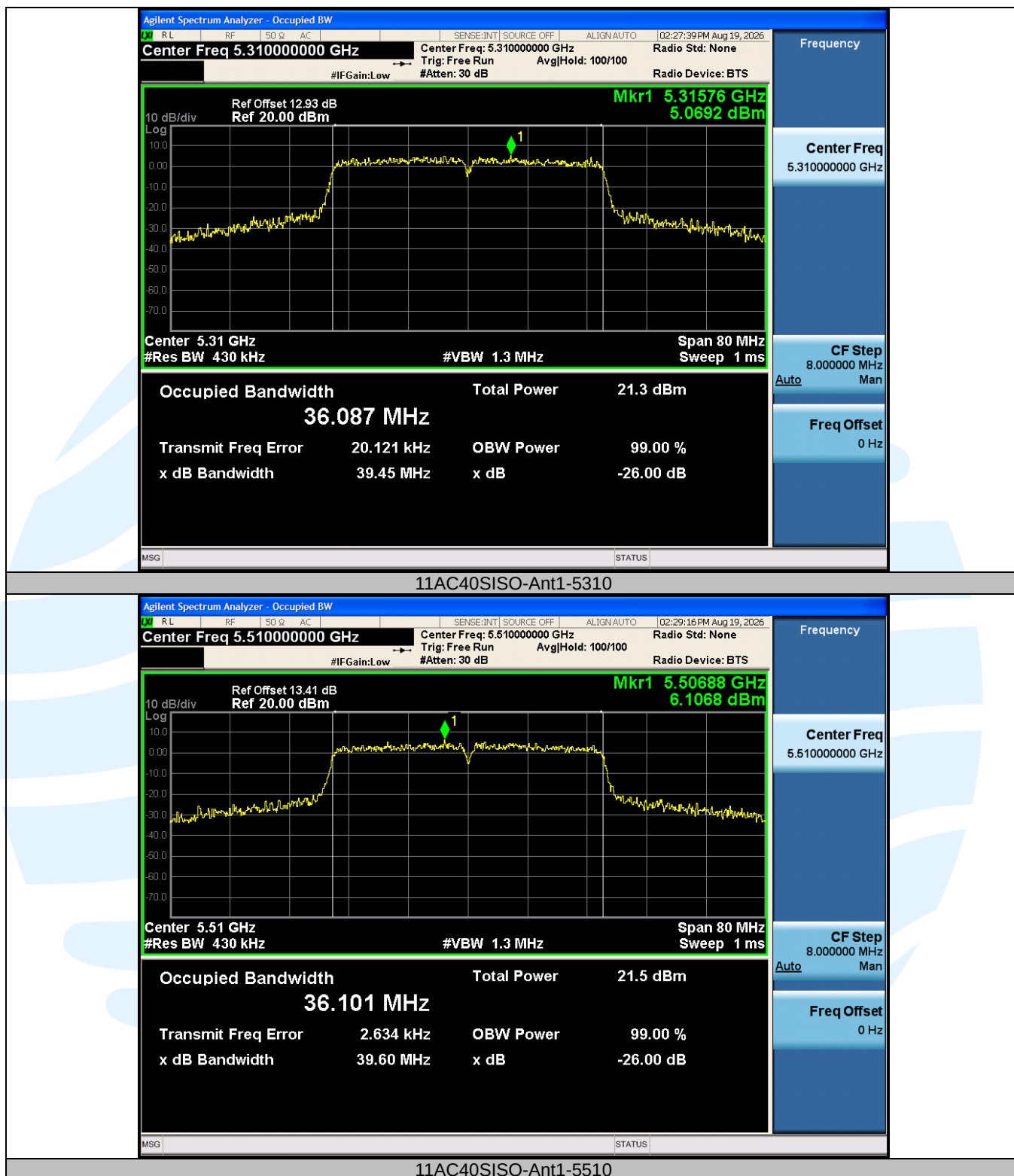
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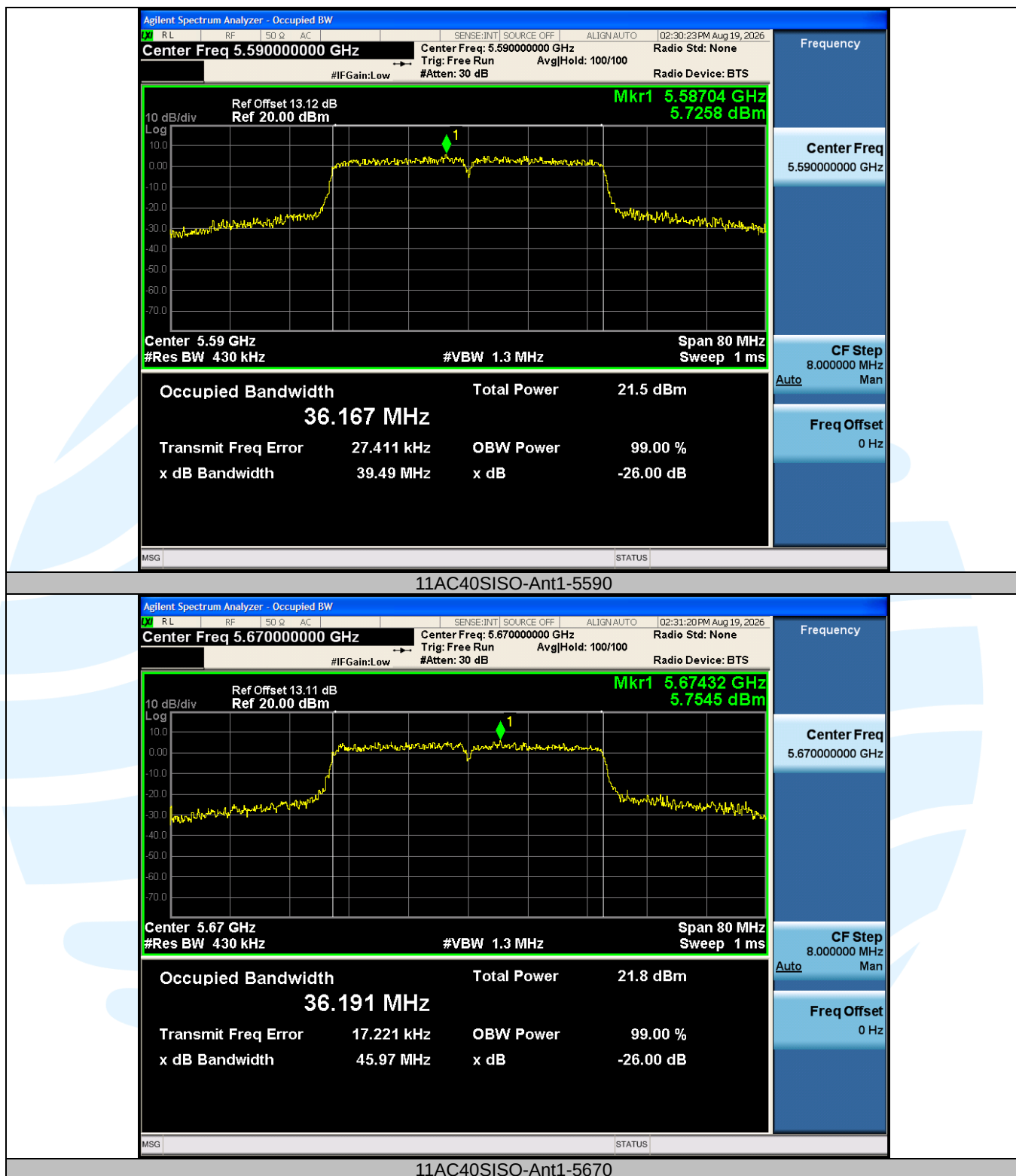
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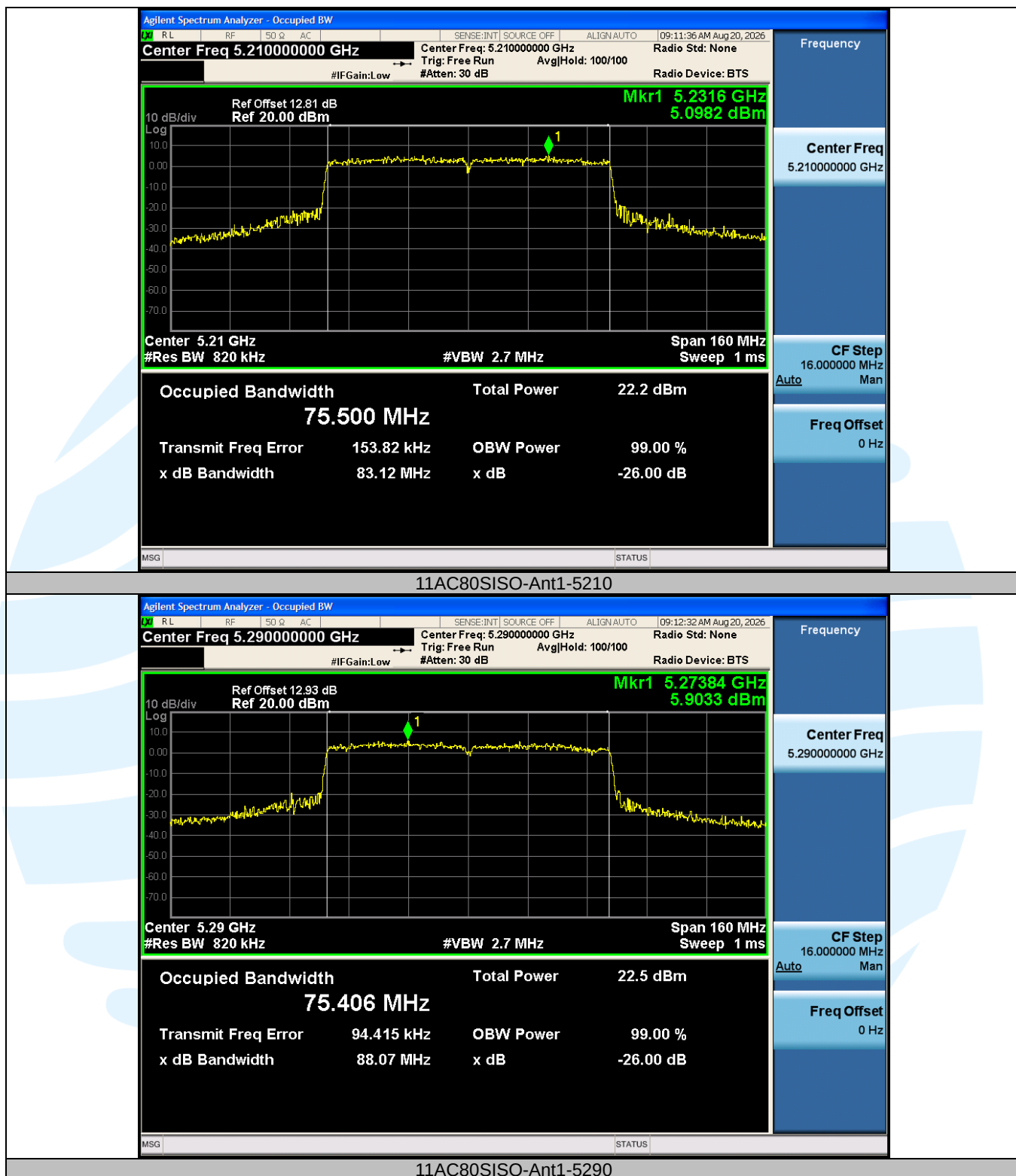
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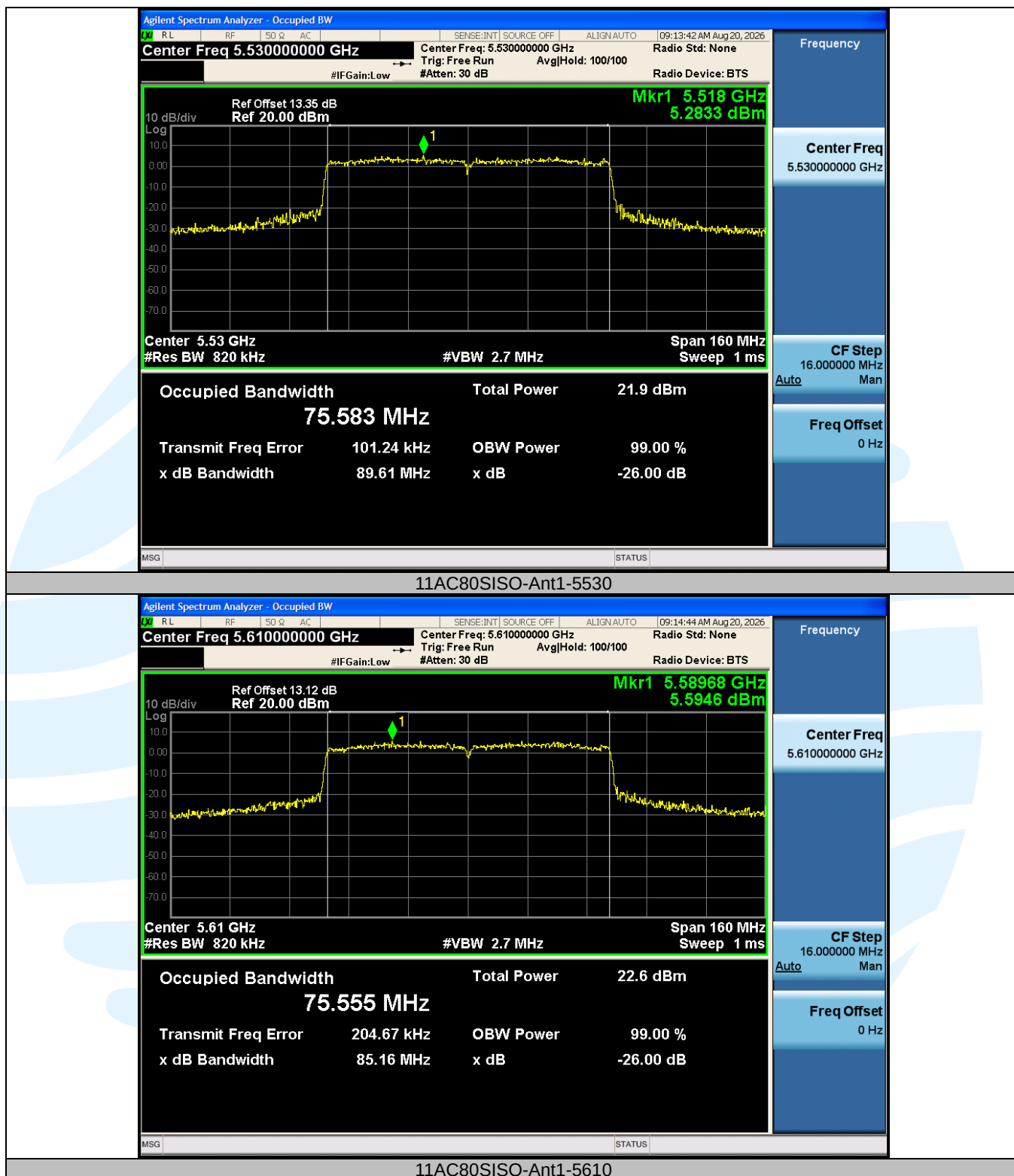
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5.46 DB BANDWIDTH

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.407 (e)

Test Method: KDB 789033 D02 v02r01Section C.2

Limit: Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Test Procedure:

The output from the transmitter was connected to an attenuator and then to the input of the RF Spectrum Analyzer.

Spectrum analyzer according to the following Settings:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 * \text{RBW}$.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

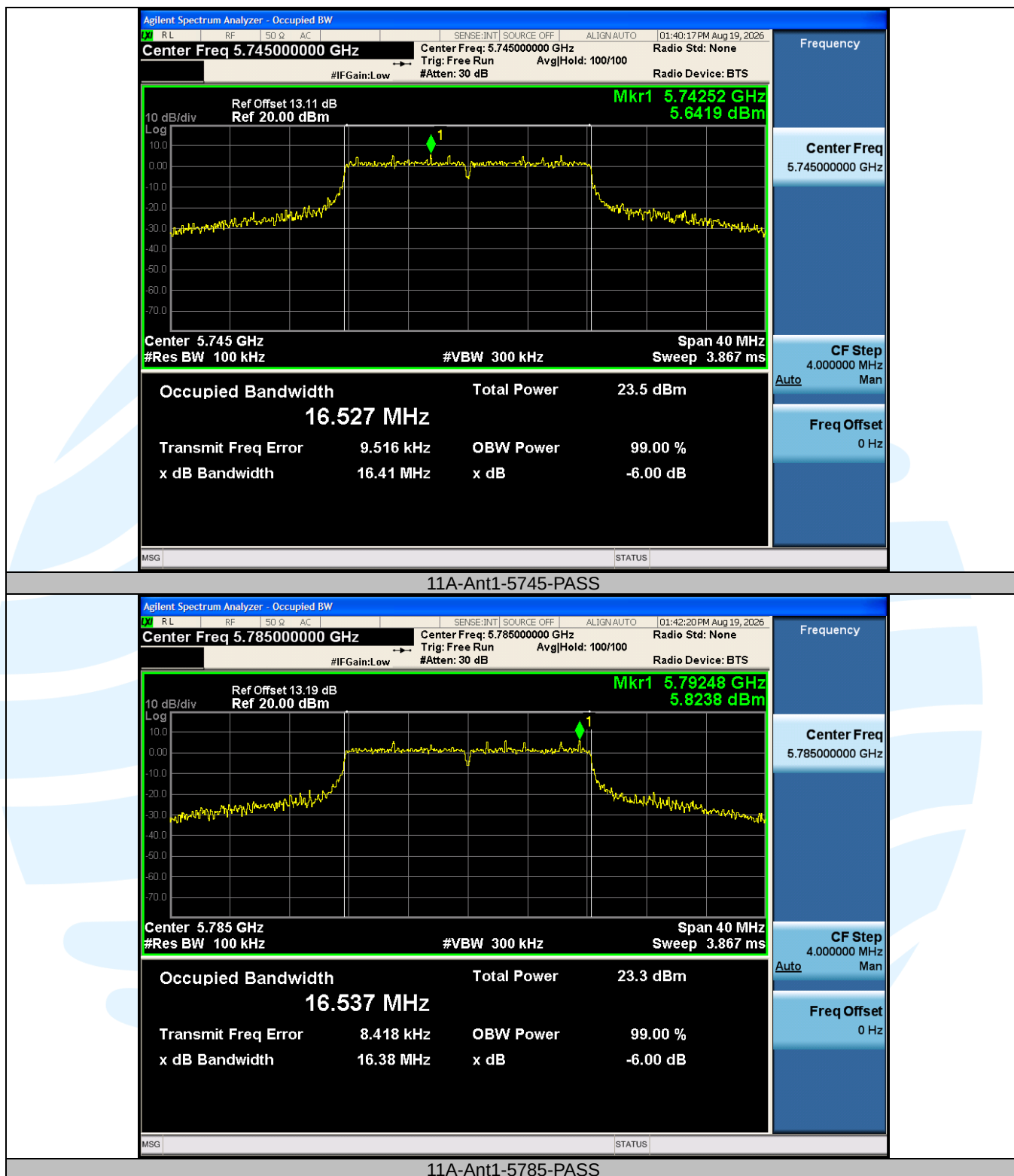
Test Setup: Refer to section 4.5.3 for details.

Instruments Used: Refer to section 3 for details

Test Mode: Tx mode

Test Results:

Test Mode	Antenna	Frequency [MHz]	6db EBW [MHz]	Limit [MHz]	Verdict
11A	Ant1	5745	16.41	0.5	PASS
11A	Ant1	5785	16.38	0.5	PASS
11A	Ant1	5825	16.36	0.5	PASS
11N20SISO	Ant1	5745	17.14	0.5	PASS
11N20SISO	Ant1	5785	17.30	0.5	PASS
11N20SISO	Ant1	5825	17.38	0.5	PASS
11N40SISO	Ant1	5755	35.81	0.5	PASS
11N40SISO	Ant1	5795	35.45	0.5	PASS
11AC20SISO	Ant1	5745	17.18	0.5	PASS
11AC20SISO	Ant1	5785	17.17	0.5	PASS
11AC20SISO	Ant1	5825	17.47	0.5	PASS
11AC40SISO	Ant1	5755	35.73	0.5	PASS
11AC40SISO	Ant1	5795	35.84	0.5	PASS
11AC80SISO	Ant1	5775	75.54	0.5	PASS

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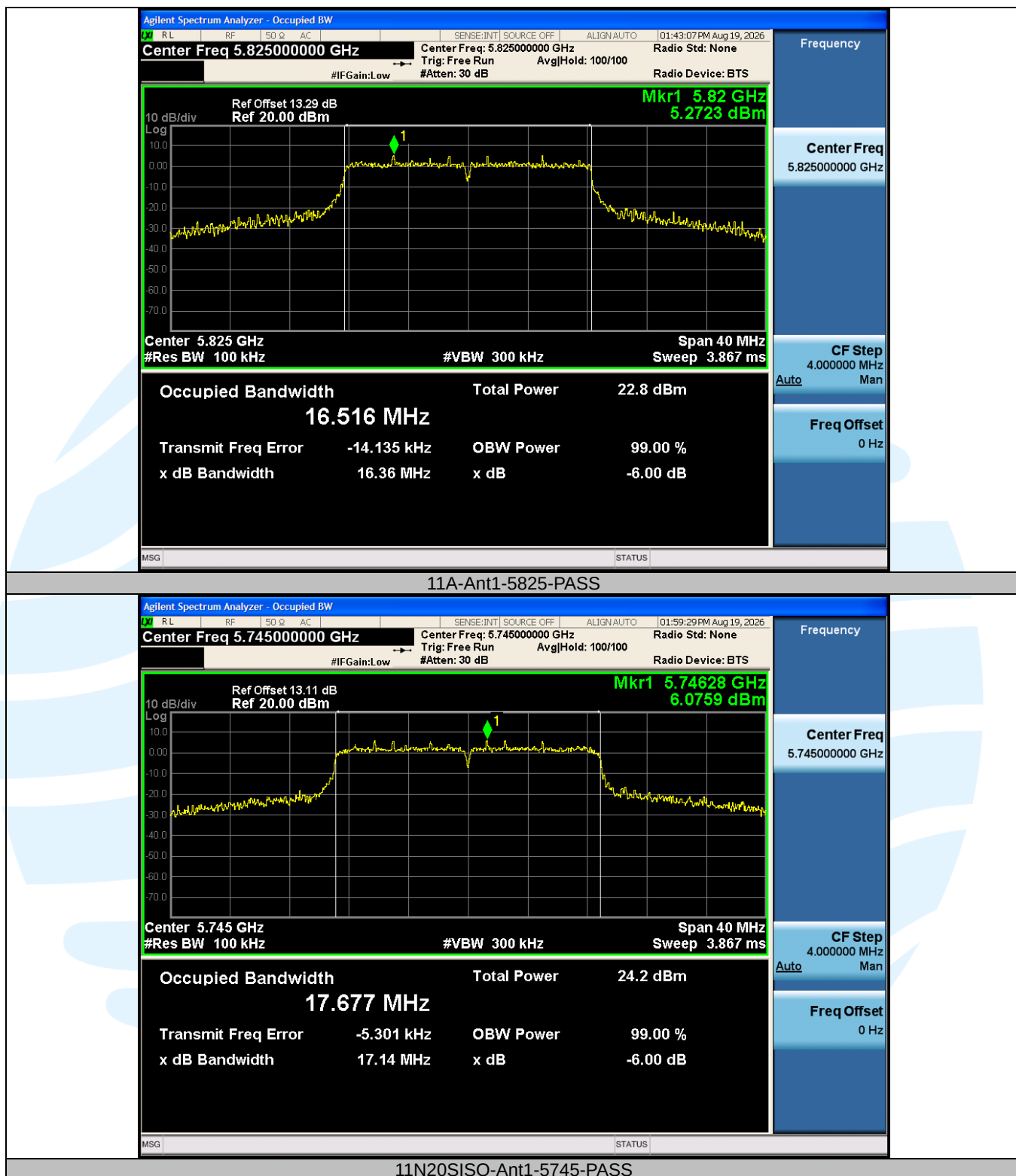
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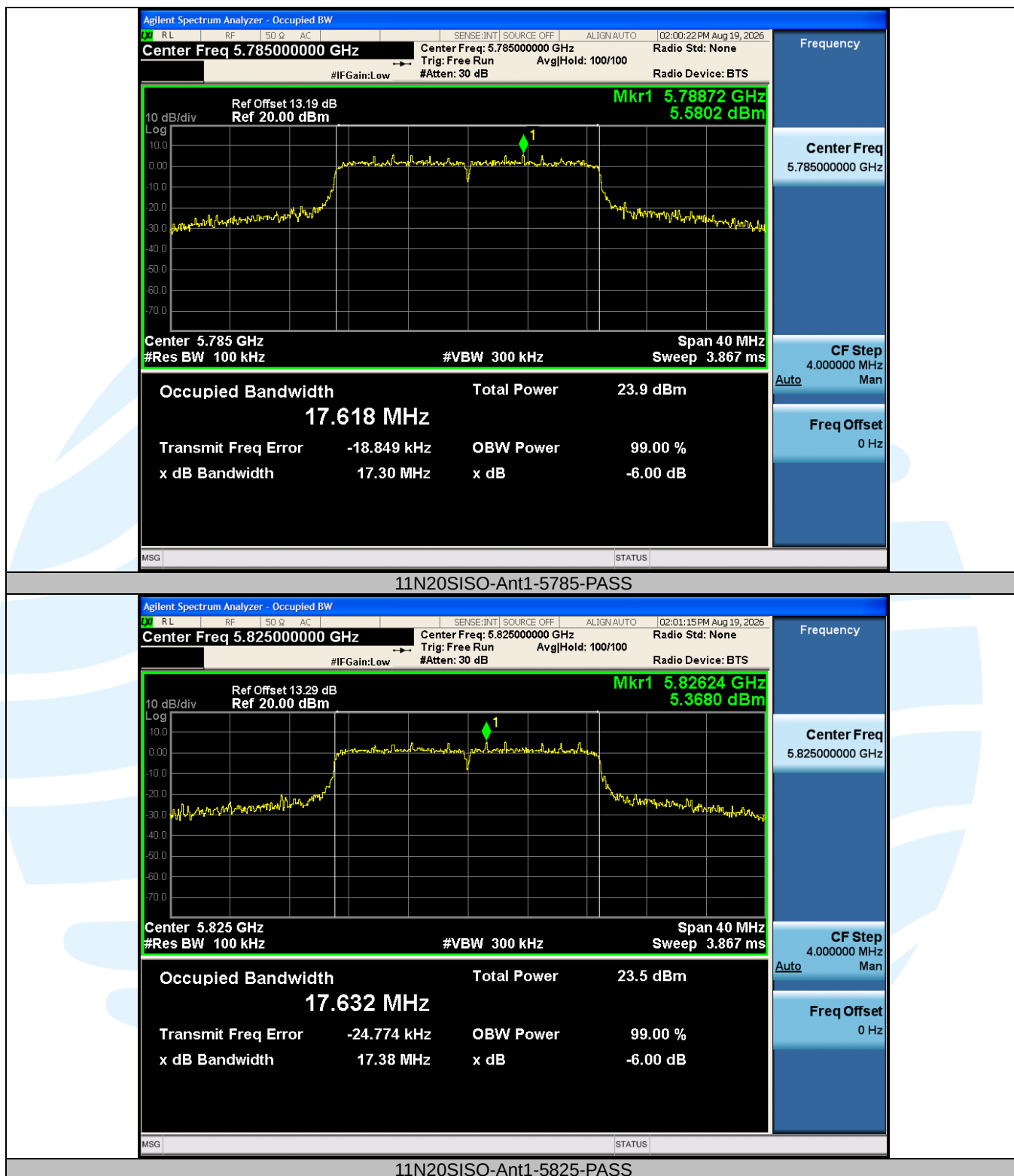
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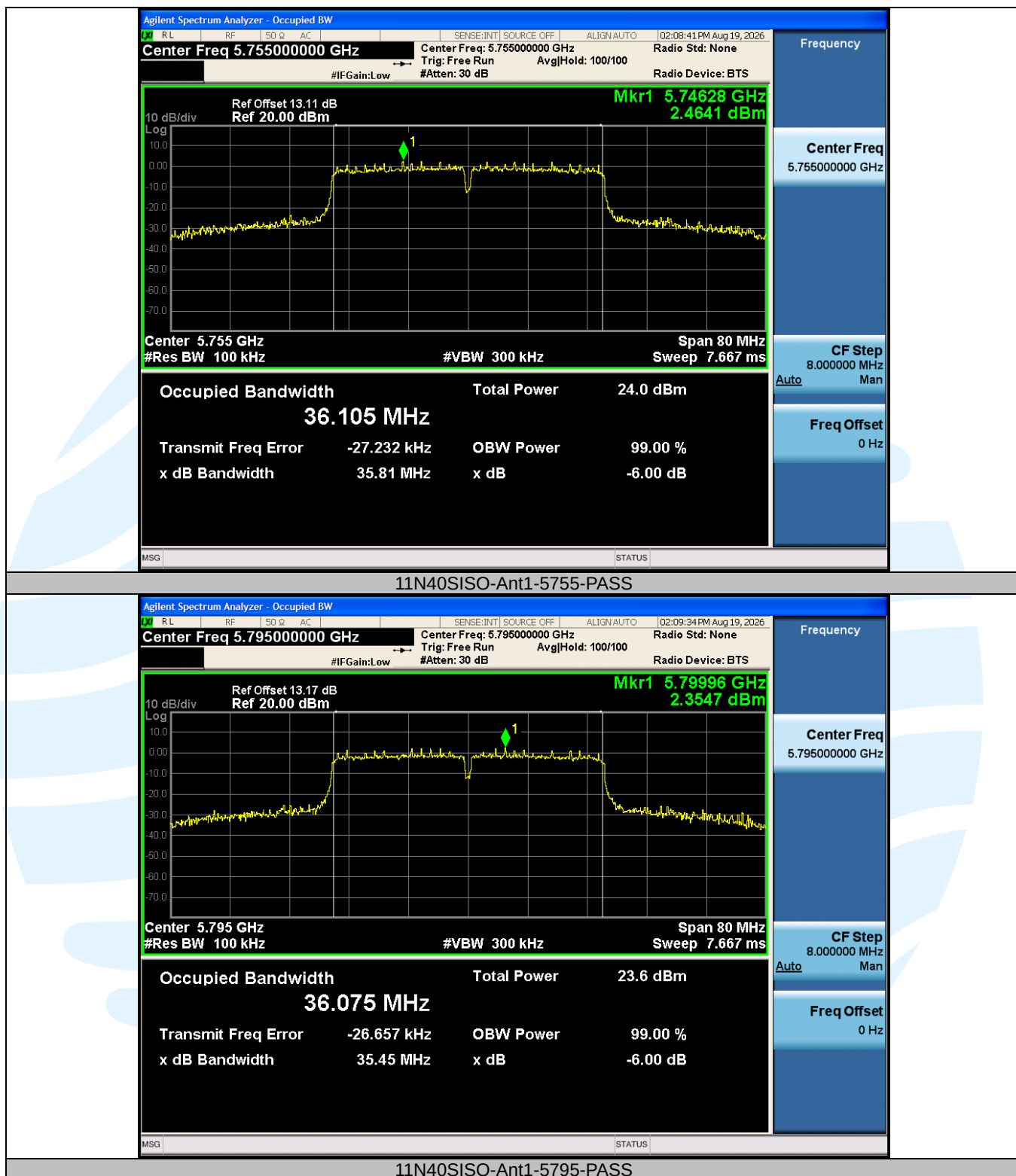
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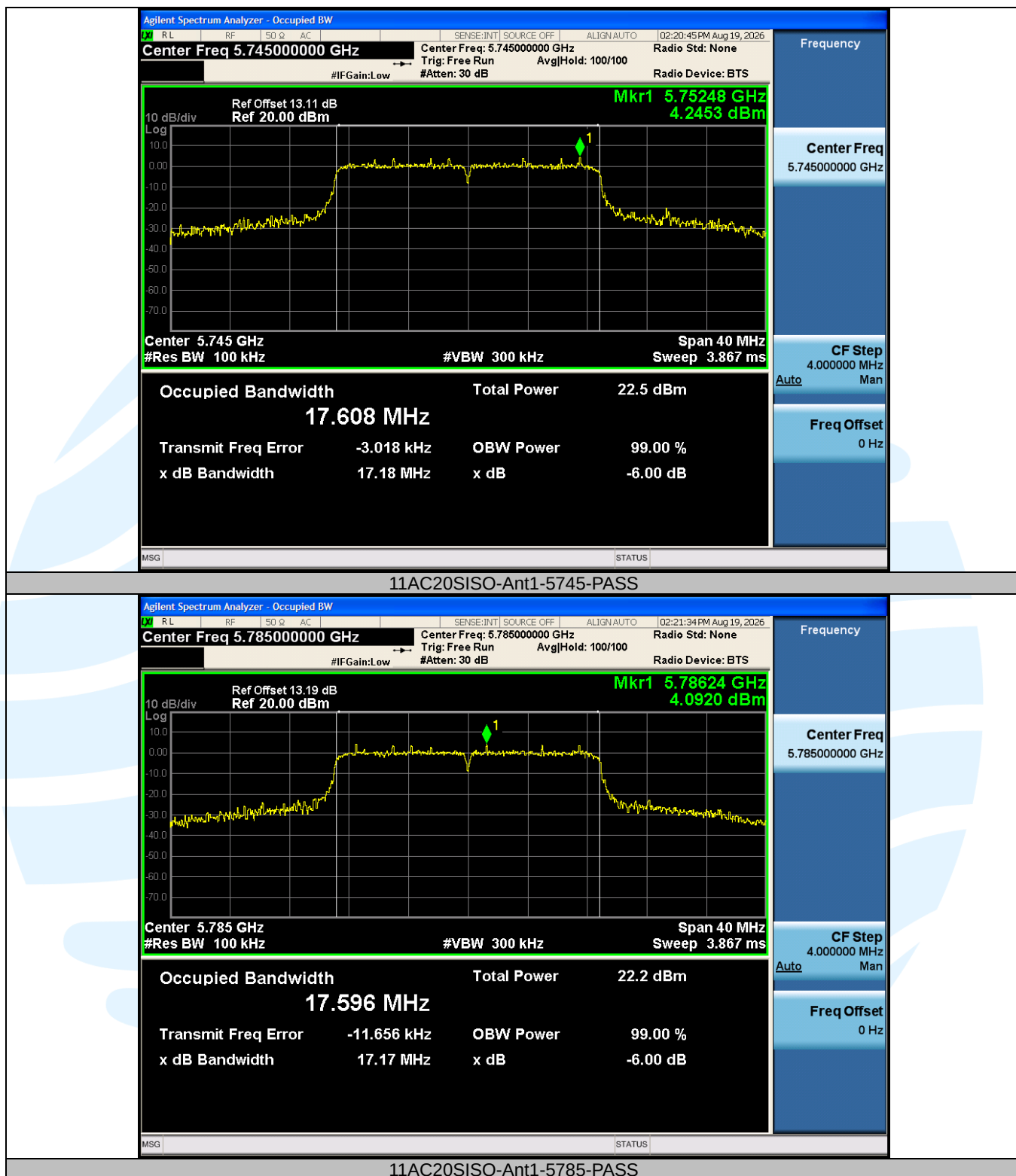
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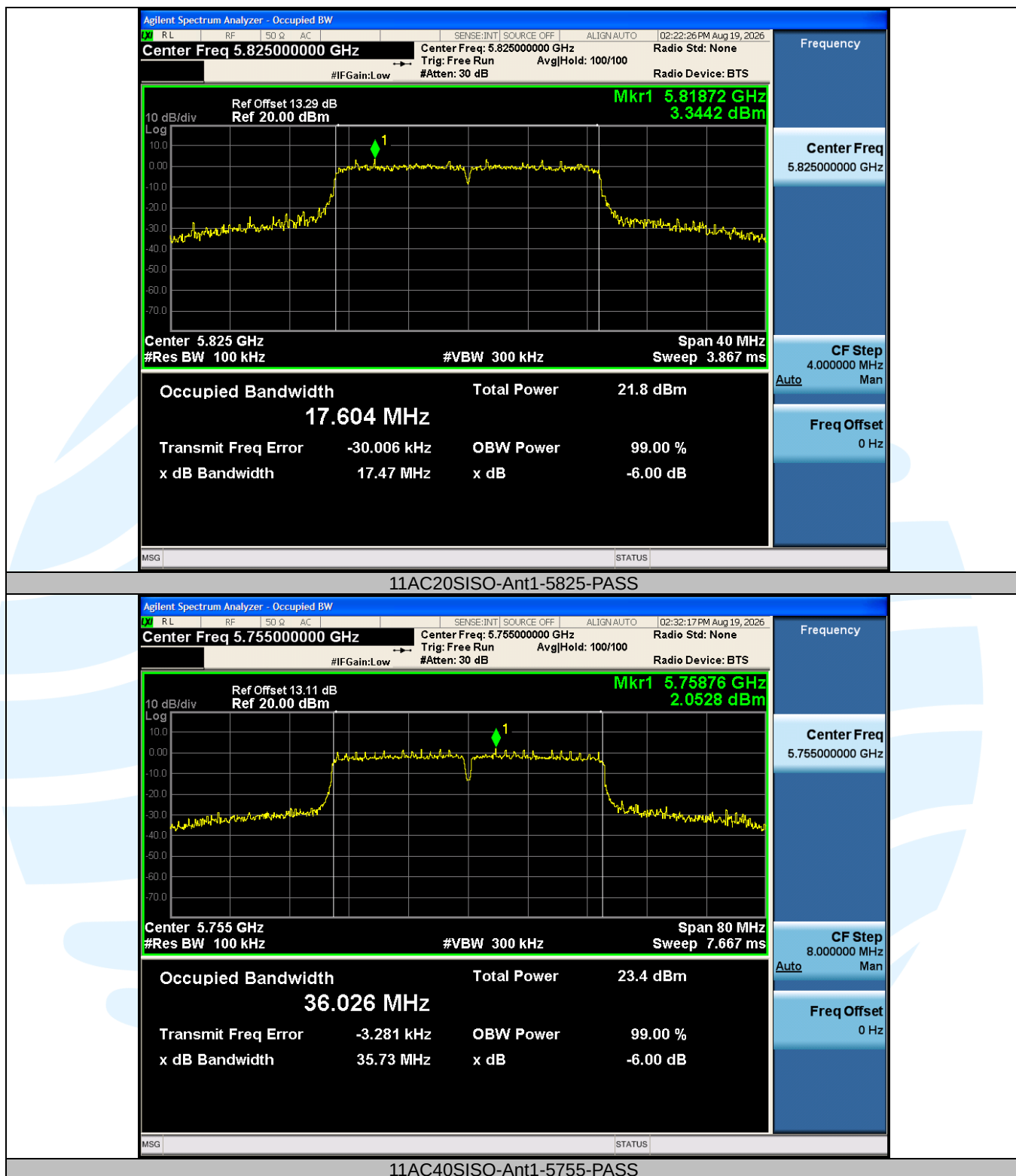
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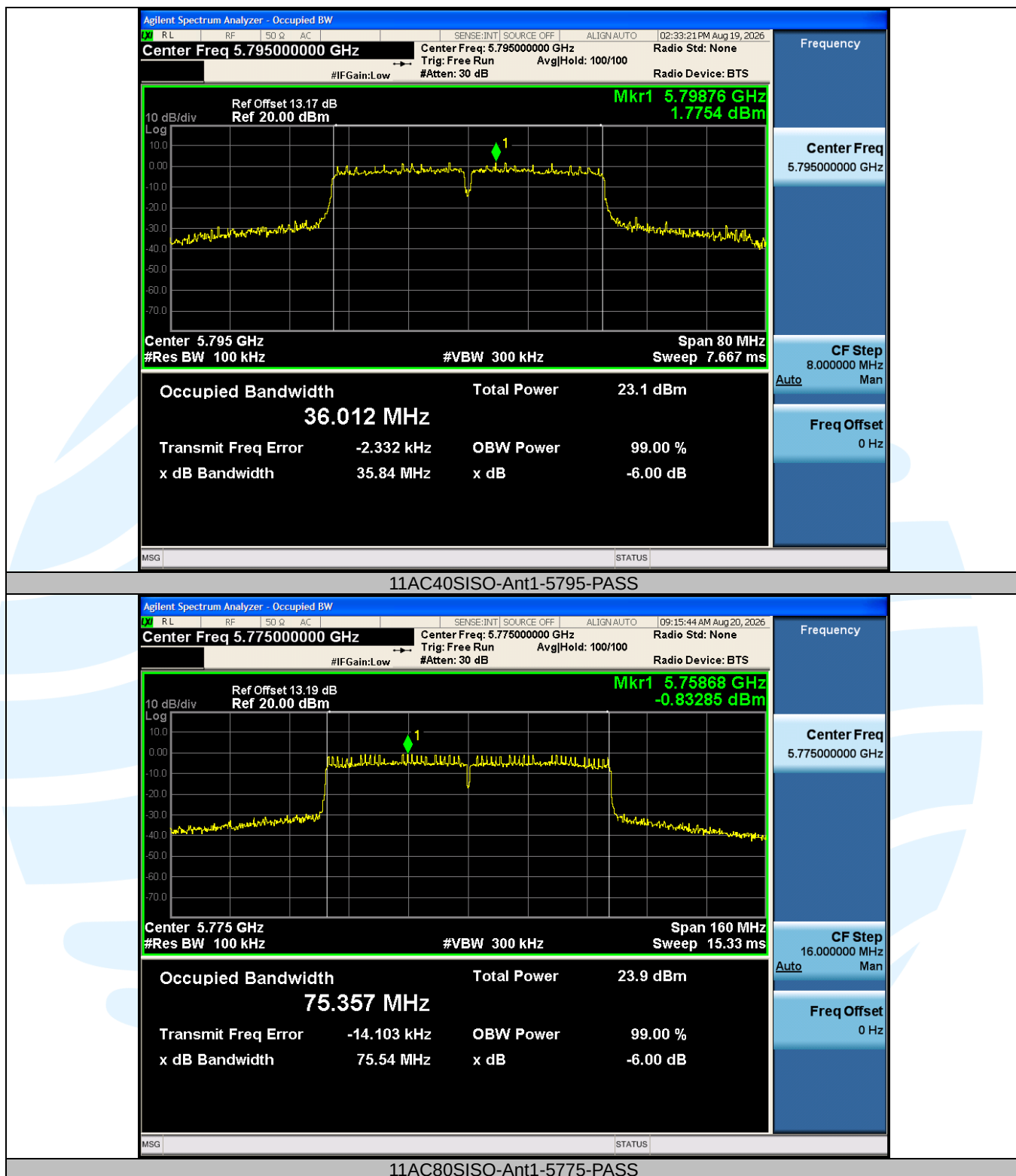
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5.5 OCCUPIED BANDWIDTH

Test Requirement: None; for reporting purposes only.

Test Method: ANSI C63.10-2020 Clause 6.9.3

Limit: None; for reporting purposes only.

Test Procedure:

The output from the transmitter was connected to an attenuator and then to the input of the RF Spectrum analyzer.

a) Set RBW = 1% to 5% of the occupied bandwidth

b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.

c) Detector = Peak.

d) Trace mode = max hold.

e) Sweep = auto couple.

f) Allow the trace to stabilize.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.5.3 for details.

Instruments Used: Refer to section 3 for details

Test Mode: Tx mode

Test Results:

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]
11A	Ant1	5180	17.607	5171.2865	5188.8935
11A	Ant1	5200	17.601	5191.3163	5208.9173
11A	Ant1	5240	17.677	5231.2385	5248.9155
11A	Ant1	5260	17.611	5251.2276	5268.8386
11A	Ant1	5280	17.544	5271.2483	5288.7923
11A	Ant1	5320	17.637	5311.1866	5328.8236
11A	Ant1	5500	17.883	5491.2067	5509.0897
11A	Ant1	5600	18.526	5591.1882	5609.7142
11A	Ant1	5700	19.296	5690.9631	5710.2591
11A	Ant1	5745	17.452	5736.3008	5753.7528
11A	Ant1	5785	18.335	5775.9065	5794.2415
11A	Ant1	5825	17.296	5816.3788	5833.6748
11N20SISO	Ant1	5180	18.045	5171.0219	5189.0669
11N20SISO	Ant1	5200	18.029	5191.0248	5209.0538
11N20SISO	Ant1	5240	18.005	5231.0319	5249.0369
11N20SISO	Ant1	5260	18.062	5250.9696	5269.0316
11N20SISO	Ant1	5280	18.002	5271.0129	5289.0149
11N20SISO	Ant1	5320	18.041	5310.9647	5329.0057
11N20SISO	Ant1	5500	18.082	5490.9714	5509.0534
11N20SISO	Ant1	5600	18.126	5590.9650	5609.0910
11N20SISO	Ant1	5700	18.216	5690.9686	5709.1846
11N20SISO	Ant1	5745	18.171	5735.9355	5754.1065
11N20SISO	Ant1	5785	18.166	5775.9261	5794.0921
11N20SISO	Ant1	5825	18.115	5815.9809	5834.0959
11N40SISO	Ant1	5190	36.331	5171.9070	5208.2380
11N40SISO	Ant1	5230	36.354	5211.8954	5248.2494
11N40SISO	Ant1	5270	36.347	5251.8488	5288.1958
11N40SISO	Ant1	5310	36.282	5291.8782	5328.1602
11N40SISO	Ant1	5510	36.431	5491.8248	5528.2558
11N40SISO	Ant1	5590	36.405	5571.8684	5608.2734
11N40SISO	Ant1	5670	36.470	5651.8629	5688.3329
11N40SISO	Ant1	5755	36.514	5736.7880	5773.3020
11N40SISO	Ant1	5795	36.464	5776.7842	5813.2482
11AC20SISO	Ant1	5180	18.009	5171.0096	5189.0186
11AC20SISO	Ant1	5200	17.977	5191.0571	5209.0341
11AC20SISO	Ant1	5240	18.021	5230.9908	5249.0118
11AC20SISO	Ant1	5260	17.984	5251.0395	5269.0235

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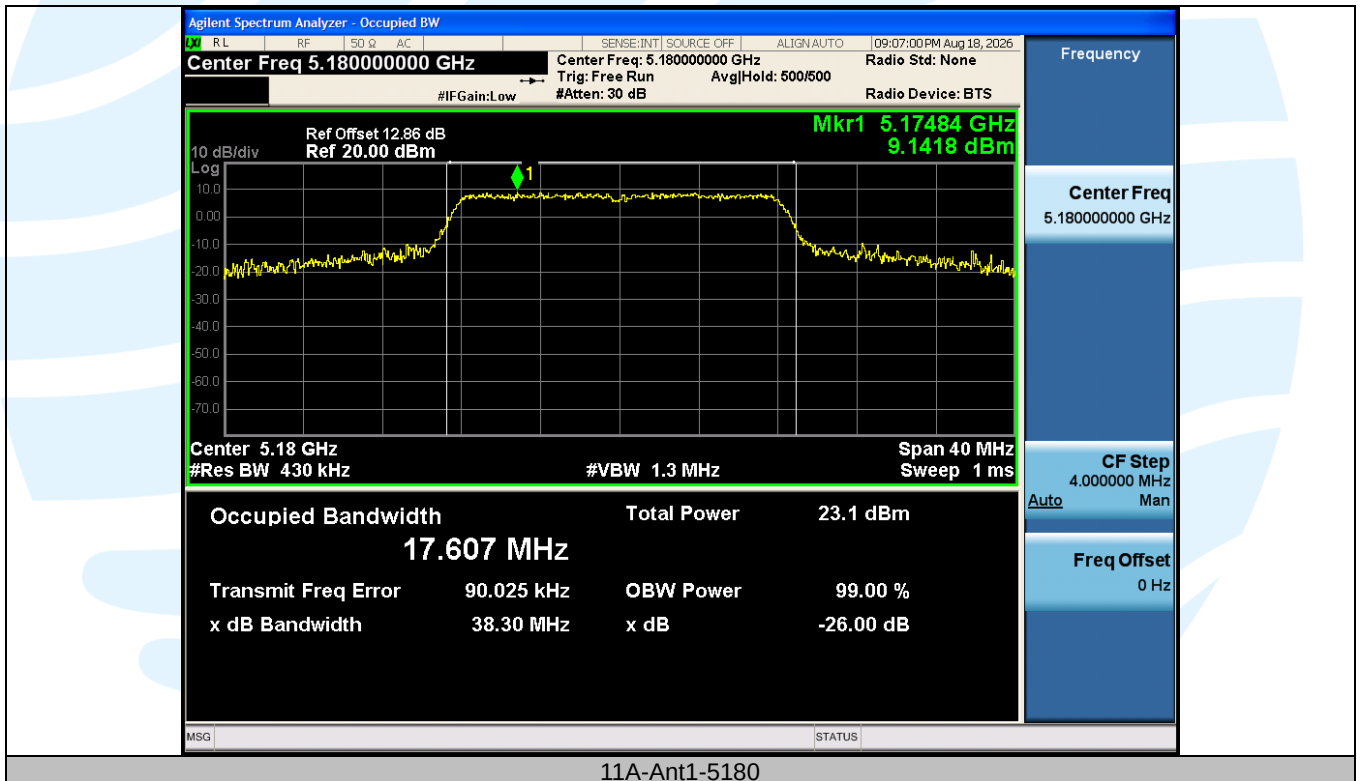
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11AC20SISO	Ant1	5320	17.947	5311.0074	5328.9544
11AC20SISO	Ant1	5500	18.010	5491.0341	5509.0441
11AC20SISO	Ant1	5600	18.047	5591.0097	5609.0567
11AC20SISO	Ant1	5700	18.061	5691.0136	5709.0746
11AC20SISO	Ant1	5745	18.055	5735.9826	5754.0376
11AC20SISO	Ant1	5785	18.011	5775.9927	5794.0037
11AC20SISO	Ant1	5825	18.030	5815.9594	5833.9894
11AC40SISO	Ant1	5190	36.385	5171.8404	5208.2254
11AC40SISO	Ant1	5230	36.299	5211.9172	5248.2162
11AC40SISO	Ant1	5270	36.300	5251.8738	5288.1738
11AC40SISO	Ant1	5310	36.277	5291.8724	5328.1494
11AC40SISO	Ant1	5510	36.423	5491.7966	5528.2196
11AC40SISO	Ant1	5590	36.339	5571.9000	5608.2390
11AC40SISO	Ant1	5670	36.432	5651.8684	5688.3004
11AC40SISO	Ant1	5755	36.375	5736.8682	5773.2432
11AC40SISO	Ant1	5795	36.410	5776.8388	5813.2488
11AC80SISO	Ant1	5210	75.688	5172.2825	5247.9705
11AC80SISO	Ant1	5290	75.640	5252.2093	5327.8493
11AC80SISO	Ant1	5530	75.741	5492.2568	5567.9978
11AC80SISO	Ant1	5610	75.767	5572.3021	5648.0691
11AC80SISO	Ant1	5775	75.775	5737.1859	5812.9609



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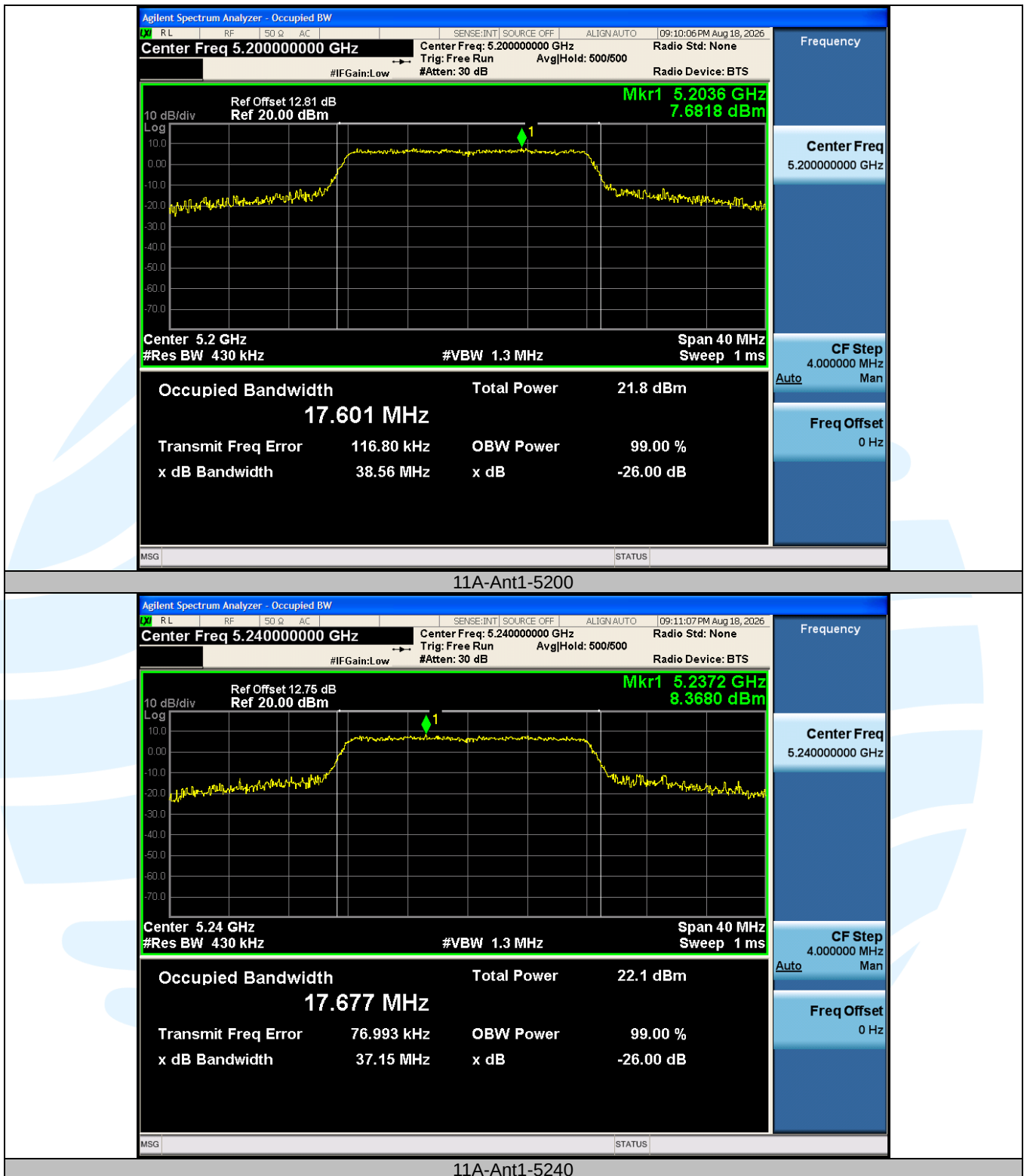
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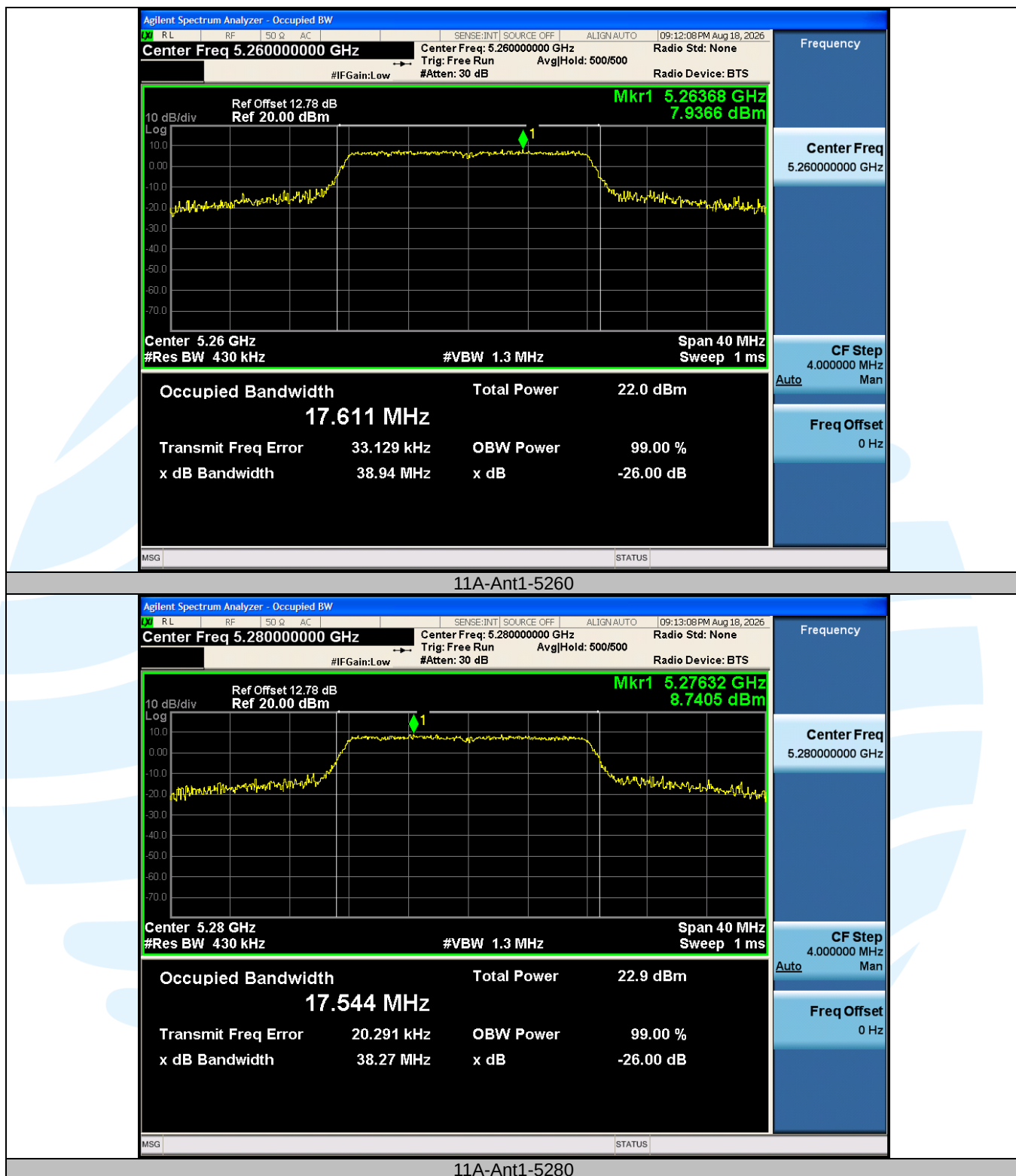
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