

RF TEST REPORT

Applicant	Play For Dream (Shanghai) Technologies Co., Ltd.
FCC ID	2BMM9-MRD3B01
Product	DREAM BOX
Brand	PLAY FOR DREAM
Model	D3-B
Report No.	R2411A1739-R3
Issue Date	January 10, 2025

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 15E (2024)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

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Summary of measurement results

Number	Test Case	Clause in FCC rules	Verdict
1	Average output power	15.407(a)	PASS
2	Occupied bandwidth	15.407(e)	PASS
3	Frequency stability	15.407(g)	PASS
4	Power spectral density	15.407(a)	PASS
5	Unwanted Emissions	15.407(b)	PASS
6	Conducted Emissions	15.207	PASS
Date of Testing: December 9, 2024 ~ December 28, 2024			
Date of Sample Received: December 6, 2024			
Note: PASS: The EUT complies with the essential requirements in the standard. FAIL: The EUT does not comply with the essential requirements in the standard. All indications of Pass/Fail in this report are opinions expressed by Eurofins TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.			

1. Test Laboratory

1.1. Notes of the test report

This report shall not be reproduced in full or partial, without the written approval of **Eurofins TA Technology (Shanghai) Co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2. Test facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA (Certificate Number: 3857.01)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

1.3. Testing Location

Company: Eurofins TA Technology (Shanghai) Co., Ltd.
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2. General Description of Equipment under Test

2.1. Applicant and Manufacturer Information

Applicant	Play For Dream (Shanghai) Technologies Co., Ltd.
Applicant address	Room 501, Building No 3, Caosong Road No.1, Xinqiao Town, Songjiang District, Shanghai City, China
Manufacturer	Play For Dream (Shanghai) Technologies Co., Ltd.
Manufacturer address	Room 501, Building No 3, Caosong Road No.1, Xinqiao Town, Songjiang District, Shanghai City, China

2.2. General information

EUT Description					
Model	D3-B				
Lab internal SN	R2411A1739/S01				
Hardware Version	V3.0				
Software Version	V2.0.22				
Power Supply	AC adapter				
Antenna Type	Internal Antenna				
Antenna Connector	A permanently attached antenna (meet with the standard FCC Part 15.203 requirement)				
Antenna Gain		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
	Antenna 1	2.41 dBi	2.17 dBi	2.57 dBi	2.72 dBi
	Antenna 2	2.23 dBi	1.78 dBi	2.94 dBi	2.56 dBi
Directional Gain		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
	Power	2.41 dBi	2.17 dBi	2.94 dBi	2.72 dBi
	PSD	5.42 dBi	5.18 dBi	5.95 dBi	5.73 dBi
Operating Frequency Range(s)	U-NII-1: 5150MHz-5250MHz U-NII-2A: 5250MHz -5350MHz U-NII-2C: 5470MHz-5725MHz U-NII-3: 5725MHz -5850MHz				
Modulation Type	802.11a: OFDM 802.11n(HT20/HT40): OFDM 802.11ac (VHT20/VHT40/VHT80): OFDM 802.11ax (HE20/HE40/HE80): OFDMA				
Max. Output Power	20.54 dBm				
Operating temperature range	0 ° C to 40 ° C				
Operating voltage range	3.6 VDC to 4.4 VDC				
Testing temperature range	-30 ° C to 50° C				
State voltage	4 VDC				
EUT Accessory					

Data Cable	Manufacturer: Guangdong Pinsheng Electronics Co., LTD 1000±30mm Cable
HDMI Cable	Manufacturer: Shenzhen Zhishang Technology Co., LTD 1000mm Cable
Note: 1. The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant. 2. This device support automatically discontinue transmission, while the device is not transmitting any information, the device can automatically discontinue transmission and become standby mode for power saving. The device can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission. 3. (a) Manufacturers implements security features in any digitally modulated devices capable of operating in any of the U-NII bands, so that third parties are not able to reprogram the device to operate outside the parameters for which the device was certified. The software prevents the user from operating the transmitter with operating frequencies, output power, modulation types or other radio frequency parameters outside those that were approved for the device. Manufacturers uses means including, but not limited to the use of a private network that allows only authenticated users to download software, electronic signatures in software or coding in hardware that is decoded by software to verify that new software can be legally loaded into a device to meet these requirements and must describe the methods in their application for equipment authorization. (b) Manufacturers take steps to ensure that DFS functionality cannot be disabled by the operator of the U-NII device.	

3. Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test standards:

FCC CFR47 Part 15E (2024) Unlicensed National Information Infrastructure Devices

ANSI C63.10-2013

Reference standard:

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

KDB 662911 D01 Multiple Transmitter Output v02r01

4. Test Configuration

Test Mode

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in stand-up position (X axis) and the worst case was recorded.

In order to find the worst case condition, Pre-tests are needed at the presence of different data rate. Preliminary tests have been done on all the configuration for confirming worst case. Data rate below means worst-case rate of each test item.

Worst-case data rates are shown as following table.

Mode	Data Rate		
	Antenna 1	Antenna 2	MIMO
802.11a	6 Mbps	6 Mbps	6 Mbps
802.11n HT20	MCS0	MCS0	MCS8
802.11n HT40	MCS0	MCS0	MCS8
802.11ac VHT20	MCS0	MCS0	MCS0
802.11ac VHT40	MCS0	MCS0	MCS0
802.11ac VHT80	MCS0	MCS0	MCS0
802.11ax HE20	MCS0	MCS0	MCS0
802.11ax HE40	MCS0	MCS0	MCS0
802.11ax HE80	MCS0	MCS0	MCS0

The worst case Antenna mode for each of the following tests for Wi-Fi:

Test Cases	Antenna 1	Antenna 2	MIMO
Average conducted output power	O	O	O
Occupied bandwidth	O	--	--
Frequency stability	O	--	--
Power Spectral Density	O	O	O
Unwanted Emissions	-	--	O
Conducted Emissions	-	--	O

TB Mode

Test Cases	Antenna 1	Antenna 2	MIMO
Average conducted output power	O	O	O
Occupied bandwidth	O	-	-
Frequency stability	-	-	-
Power Spectral Density	O	O	O
Unwanted Emissions	-	-	O
Conducted Emissions	-	-	-

Wireless Technology and Frequency Range

Wireless Technology		Bandwidth	Channel	Frequency
Wi-Fi	U-NII-1	20 MHz	36	5180MHz
			40	5200MHz
			44	5220MHz
			48	5240MHz
		40 MHz	38	5190MHz
			46	5230MHz
		80 MHz	42	5210MHz
	U-NII-2A	20 MHz	52	5260MHz
			56	5280MHz
			60	5300MHz
			64	5320MHz
		40 MHz	54	5270MHz
			62	5310MHz
		80 MHz	58	5290MHz
	U-NII-2C	20 MHz	100	5500MHz
			104	5520MHz
			108	5540MHz
			112	5560MHz
			116	5580MHz
			120	5600MHz
			124	5620MHz
			128	5640MHz
			132	5660MHz
			136	5680MHz
			140	5700MHz
			144	5720MHz
		40 MHz	102	5510MHz
			110	5550MHz
			118	5590MHz
			126	5630MHz
			134	5670MHz
			142	5710MHz
		80 MHz	106	5530MHz
			122	5610MHz
			138	5690MHz
	U-NII-3	20 MHz	149	5745MHz
			153	5765MHz
			157	5785MHz
			161	5805MHz
			165	5825MHz

Test Report		Report No.: R472R2700 R0		
		40 MHz	151	5755MHz
			159	5795MHz
		80 MHz	155	5775MHz
Does this device support TPC Function? ☒ Yes ☐ No				
Does this device support TDWR Band? ☒ Yes ☐ No				

5. Test Case Results

5.1. Occupied Bandwidth

Ambient condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

Method of Measurement

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable.

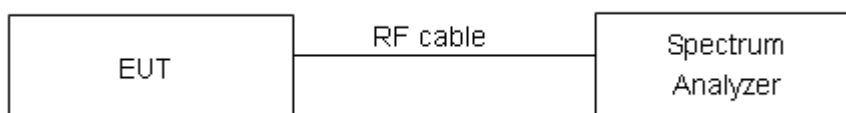
For U-NII-1/U-NII-2A/U-NII-2C, set RBW $\approx 1\%$ OCB kHz, VBW $\geq 3 \times$ RBW, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 26 dB relative to the maximum level measured in the fundamental emission.

For U-NII-3, Set RBW = 100 kHz, VBW $\geq 3 \times$ RBW, 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 automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described above.

Use the 99 % power bandwidth function of the instrument

Test Setup



Limits

For U-NII-1/U-NII-2A/U-NII-2C

No specific occupied bandwidth requirements in Part 15.407.

For U-NII-3

Rule FCC Part §15.407(e)

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

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 936$ Hz.

Test Results:

Mode	Carrier frequency (MHz)	Minimum 26 dB bandwidth (MHz)	Conclusion
802.11a	5180	18.85	PASS
	5200	19.07	PASS
	5240	20.07	PASS
	5260	20.00	PASS
	5280	19.78	PASS
	5320	18.49	PASS
	5500	19.61	PASS
	5580	18.69	PASS
	5700	18.88	PASS
	5720	19.30	PASS
	5745	18.76	PASS
	5785	19.63	PASS
	5825	18.82	PASS
802.11n HT20	5180	19.86	PASS
	5200	19.91	PASS
	5240	19.93	PASS
	5260	19.70	PASS
	5280	19.85	PASS
	5320	19.90	PASS
	5500	19.86	PASS
	5580	20.07	PASS
	5700	19.81	PASS
	5720	19.88	PASS
	5745	19.91	PASS
	5785	19.73	PASS
	5825	19.59	PASS
802.11n HT40	5190	39.43	PASS
	5230	39.12	PASS
	5270	39.39	PASS
	5310	39.30	PASS
	5510	38.99	PASS
	5550	39.34	PASS
	5670	39.11	PASS
	5710	39.46	PASS
	5755	39.55	PASS
	5795	39.36	PASS
802.11ac VHT20	5180	19.73	PASS
	5200	20.07	PASS
	5240	19.70	PASS
	5260	19.78	PASS

	5280	19.79	PASS
	5320	19.97	PASS
	5500	19.79	PASS
	5580	19.78	PASS
	5700	19.66	PASS
	5720	19.98	PASS
	5745	19.86	PASS
	5785	19.79	PASS
	5825	19.83	PASS
802.11ac VHT40	5190	39.25	PASS
	5230	39.47	PASS
	5270	39.43	PASS
	5310	39.27	PASS
	5510	39.28	PASS
	5550	39.38	PASS
	5670	39.35	PASS
	5710	39.43	PASS
	5755	39.38	PASS
802.11ac VHT80	5795	39.25	PASS
	5210	82.08	PASS
	5290	81.24	PASS
	5530	81.98	PASS
	5690	81.14	PASS
802.11ax HE20	5775	80.87	PASS
	5180	20.50	PASS
	5200	21.10	PASS
	5240	20.74	PASS
	5260	20.57	PASS
	5280	20.98	PASS
	5320	20.50	PASS
	5500	20.64	PASS
	5580	20.57	PASS
	5700	20.45	PASS
	5720	20.82	PASS
	5745	20.57	PASS
	5785	20.82	PASS
802.11ax HE40	5825	20.92	PASS
	5190	40.16	PASS
	5230	39.79	PASS
	5270	40.06	PASS
	5310	39.85	PASS
	5510	39.99	PASS
	5550	40.25	PASS

	5670	40.26	PASS
	5710	40.23	PASS
	5755	39.96	PASS
	5795	40.46	PASS
802.11ax HE80	5210	81.58	PASS
	5290	81.92	PASS
	5530	81.40	PASS
	5690	81.54	PASS
	5775	80.99	PASS

Mode	Carrier frequency (MHz)	Minimum 6 dB bandwidth (MHz)	Conclusion
802.11a	5720	16.320	PASS
	5745	16.320	PASS
	5785	16.360	PASS
	5825	16.280	PASS
802.11n HT20	5720	17.160	PASS
	5745	17.640	PASS
	5785	17.560	PASS
	5825	17.600	PASS
802.11n HT40	5710	36.320	PASS
	5755	35.920	PASS
	5795	36.320	PASS
802.11ac VHT20	5720	17.560	PASS
	5745	17.040	PASS
	5785	17.560	PASS
	5825	17.560	PASS
802.11ac VHT40	5710	35.280	PASS
	5755	36.320	PASS
	5795	36.320	PASS
802.11ac VHT80	5690	75.680	PASS
	5775	75.040	PASS
802.11ax HE20	5720	18.600	PASS
	5745	18.680	PASS
	5785	18.960	PASS
	5825	18.760	PASS
802.11ax HE40	5710	37.680	PASS
	5755	37.840	PASS
	5795	37.920	PASS
802.11ax HE80	5690	77.600	PASS
	5775	77.280	PASS

TB Mode
U-NII-1

Mode	RU Index	Carrier frequency (MHz)	99% bandwidth (MHz)	Minimum 26 dB bandwidth (MHz)	Conclusion
802.11ax HE20 106-Tones	53	5180	17.793	19.512	PASS
802.11ax HE20 106-Tones	53	5200	14.524	21.041	PASS
802.11ax HE20 106-Tones	54	5240	17.937	20.572	PASS
802.11ax HE20 242-Tones	61	5180	19.083	22.404	PASS
802.11ax HE20 242-Tones	61	5200	19.056	23.353	PASS
802.11ax HE20 242-Tones	61	5240	19.055	23.482	PASS
802.11ax HE20 26-Tones	0	5180	18.106	19.152	PASS
802.11ax HE20 26-Tones	4	5200	16.958	18.254	PASS
802.11ax HE20 26-Tones	8	5240	16.321	17.633	PASS
802.11ax HE20 52-Tones	37	5180	17.948	19.073	PASS
802.11ax HE20 52-Tones	39	5200	14.277	17.255	PASS
802.11ax HE20 52-Tones	40	5240	18.358	20.180	PASS
802.11ax HE40 26-Tones	0	5190	37.950	39.801	PASS
802.11ax HE40 26-Tones	17	5230	36.615	38.14	PASS
802.11ax HE40 484-Tones	65	5190	38.001	44.272	PASS
802.11ax HE40 484-Tones	65	5230	38.107	44.83	PASS
802.11ax HE80 26-Tones	36	5210	63.828	66.942	PASS
802.11ax HE80 26-Tones	0	5210	76.792	80.155	PASS
802.11ax HE80 996-Tones	67	5210	77.744	86.057	PASS

U-NII-2A

Mode	RU Index	Carrier frequency (MHz)	99% bandwidth (MHz)	Minimum 26 dB bandwidth (MHz)	Conclusion
802.11ax HE20 106-Tones	53	5260	17.395	20.806	PASS
802.11ax HE20 106-Tones	53	5300	17.951	20.388	PASS
802.11ax HE20 106-Tones	54	5320	16.264	21.304	PASS
802.11ax HE20 242-Tones	61	5260	19.064	23.600	PASS
802.11ax HE20 242-Tones	61	5300	19.079	24.167	PASS
802.11ax HE20 242-Tones	61	5320	19.060	22.634	PASS
802.11ax HE20 26-Tones	0	5260	18.422	19.602	PASS
802.11ax HE20 26-Tones	4	5300	16.252	17.429	PASS
802.11ax HE20 26-Tones	8	5320	16.119	16.922	PASS
802.11ax HE20 52-Tones	37	5260	18.253	19.577	PASS
802.11ax HE20 52-Tones	39	5300	14.929	19.043	PASS
802.11ax HE20 52-Tones	40	5320	18.317	19.930	PASS
802.11ax HE40 26-Tones	0	5270	32.654	34.258	PASS
802.11ax HE40 26-Tones	17	5310	37.645	39.599	PASS
802.11ax HE40 484-Tones	65	5270	38.020	43.038	PASS
802.11ax HE40 484-Tones	65	5310	37.990	43.151	PASS
802.11ax HE80 26-Tones	36	5290	78.709	81.086	PASS
802.11ax HE80 26-Tones	0	5290	51.781	54.554	PASS
802.11ax HE80 996-Tones	67	5290	77.637	87.154	PASS

U-NII-2C

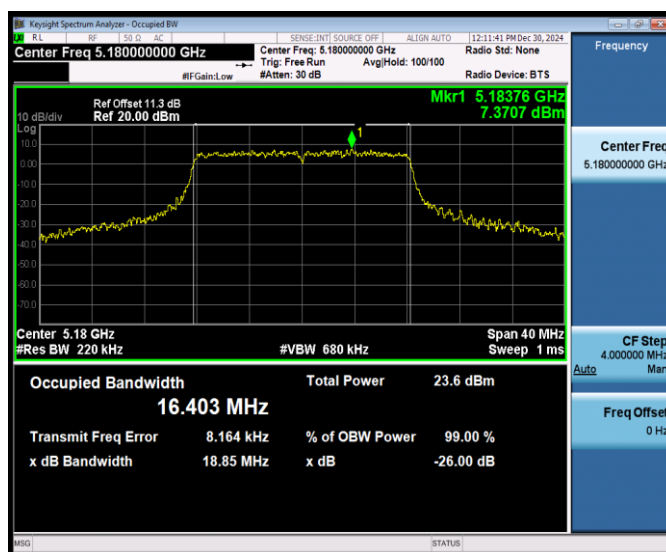
Mode	RU Index	Carrier frequency (MHz)	99% bandwidth (MHz)	Minimum 26 dB bandwidth (MHz)	Conclusion
802.11ax HE20 106-Tones	53	5500	14.359	20.986	PASS
802.11ax HE20 106-Tones	53	5600	18.356	21.575	PASS
802.11ax HE20 106-Tones	54	5700	18.309	20.000	PASS
802.11ax HE20 242-Tones	61	5500	19.070	23.022	PASS
802.11ax HE20 242-Tones	61	5600	19.055	22.598	PASS
802.11ax HE20 242-Tones	61	5700	19.060	22.418	PASS
802.11ax HE20 26-Tones	0	5500	16.172	17.260	PASS
802.11ax HE20 26-Tones	4	5600	17.218	18.508	PASS
802.11ax HE20 26-Tones	8	5700	18.045	19.222	PASS
802.11ax HE20 52-Tones	37	5500	18.195	20.402	PASS
802.11ax HE20 52-Tones	39	5600	12.014	16.027	PASS
802.11ax HE20 52-Tones	40	5700	18.293	19.583	PASS
802.11ax HE40 26-Tones	0	5510	34.765	36.547	PASS
802.11ax HE40 26-Tones	17	5670	32.628	34.788	PASS
802.11ax HE40 484-Tones	65	5510	38.026	44.346	PASS
802.11ax HE40 484-Tones	65	5590	37.967	43.148	PASS
802.11ax HE40 484-Tones	65	5670	38.036	43.143	PASS
802.11ax HE80 26-Tones	36	5610	68.249	70.424	PASS
802.11ax HE80 26-Tones	0	5610	75.970	78.897	PASS
802.11ax HE80 996-Tones	67	5610	77.815	86.984	PASS

U-NII-3

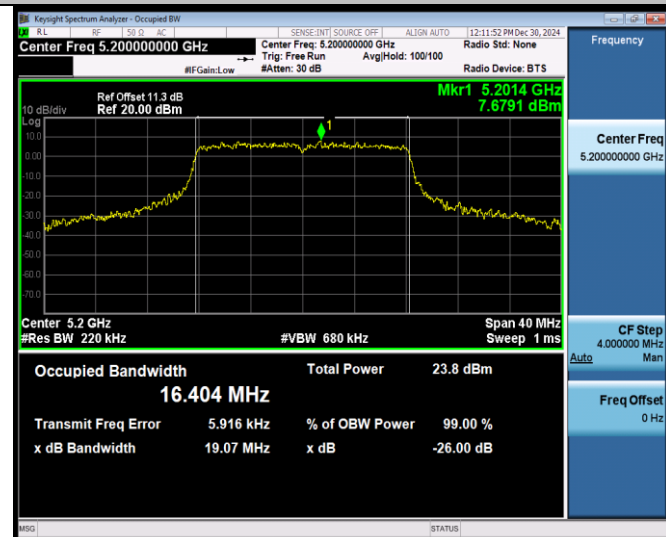
Mode	RU Index	Carrier frequency (MHz)	99% bandwidth (MHz)	Minimum 6 dB bandwidth (MHz)	Limit (kHz)	Conclusion
802.11ax HE20 106-Tones	53	5745	16.290	17.017	500	PASS
802.11ax HE20 106-Tones	53	5785	17.478	17.062	500	PASS
802.11ax HE20 106-Tones	54	5825	15.781	17.787	500	PASS
802.11ax HE20 242-Tones	61	5745	19.049	19.020	500	PASS
802.11ax HE20 242-Tones	61	5785	19.074	19.012	500	PASS
802.11ax HE20 242-Tones	61	5825	19.033	19.045	500	PASS
802.11ax HE20 26-Tones	0	5745	17.925	2.014	500	PASS
802.11ax HE20 26-Tones	4	5785	14.899	2.563	500	PASS
802.11ax HE20 26-Tones	8	5825	17.378	2.016	500	PASS
802.11ax HE20 52-Tones	37	5745	17.092	7.035	500	PASS
802.11ax HE20 52-Tones	39	5785	15.912	9.155	500	PASS
802.11ax HE20 52-Tones	40	5825	17.885	8.216	500	PASS
802.11ax HE40 26-Tones	0	5755	36.302	2.062	500	PASS
802.11ax HE40 26-Tones	17	5795	37.438	2.029	500	PASS
802.11ax HE40 484-Tones	65	5755	38.071	37.972	500	PASS
802.11ax HE40 484-Tones	65	5795	38.052	38.070	500	PASS
802.11ax HE80 26-Tones	36	5775	77.296	2.065	500	PASS
802.11ax HE80 26-Tones	0	5775	78.568	2.067	500	PASS
802.11ax HE80 996-Tones	67	5775	77.669	78.006	500	PASS

99% bandwidth

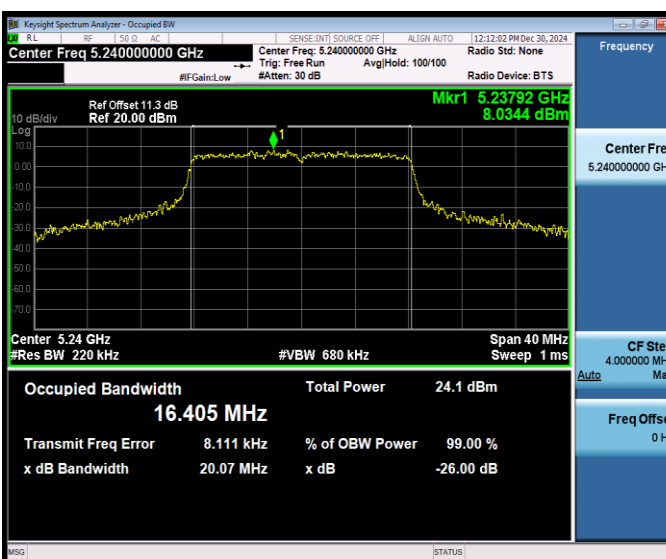
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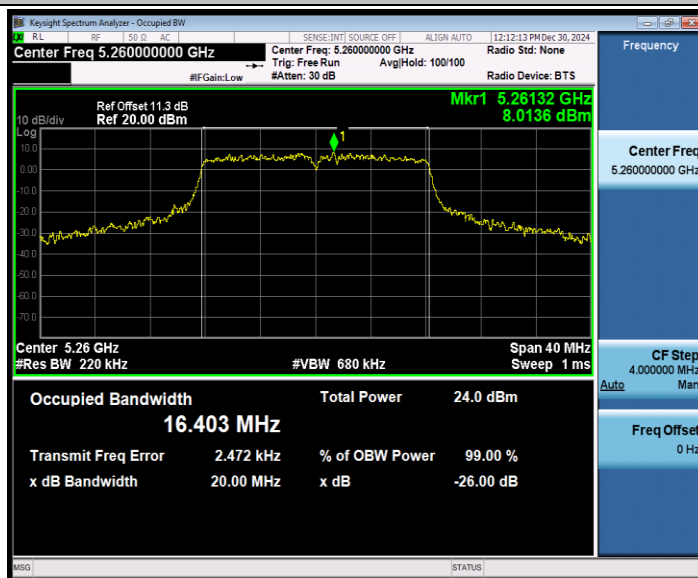
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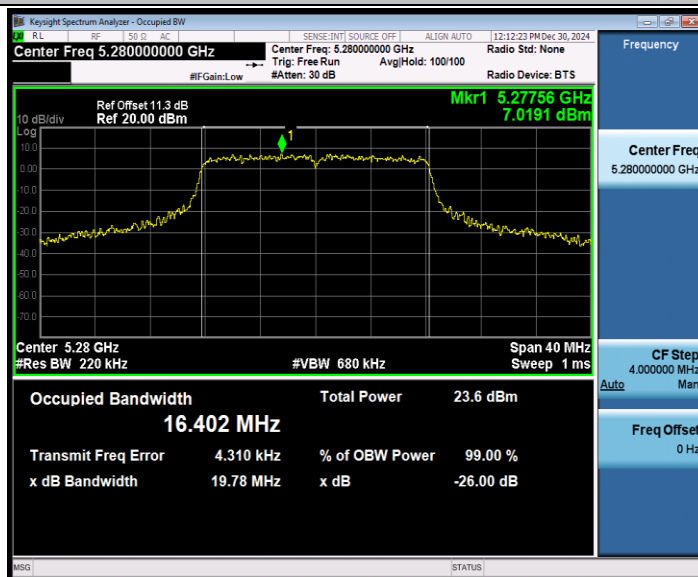
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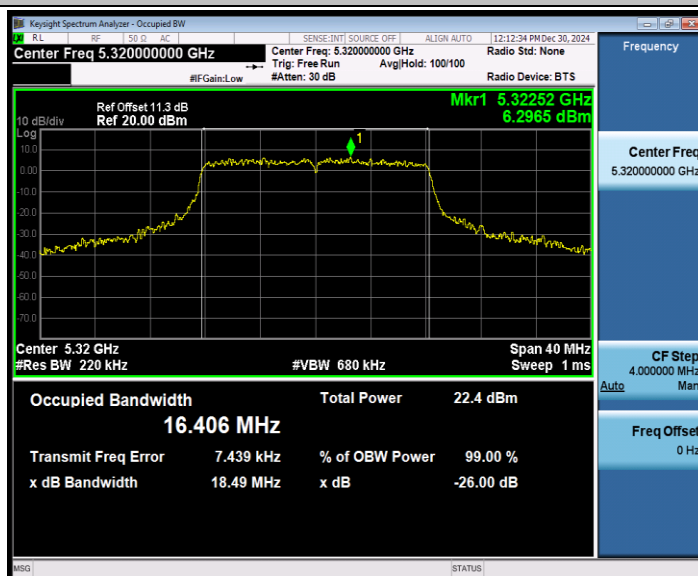
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11A_Ant1_5280



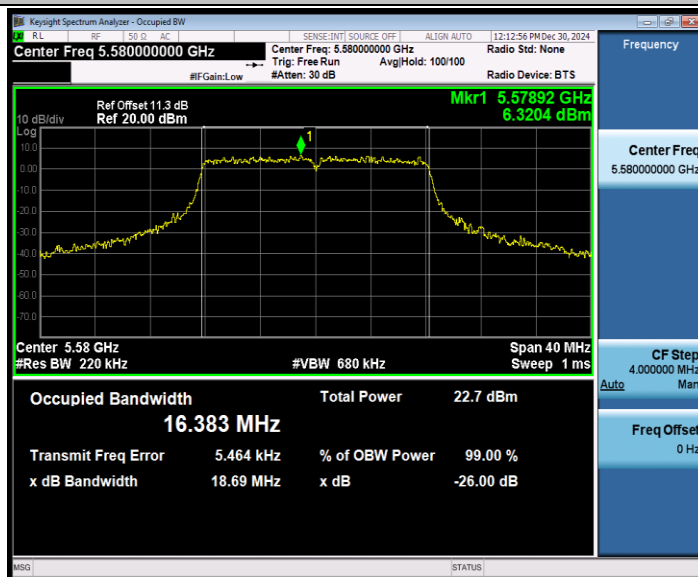
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11A_Ant1_5500



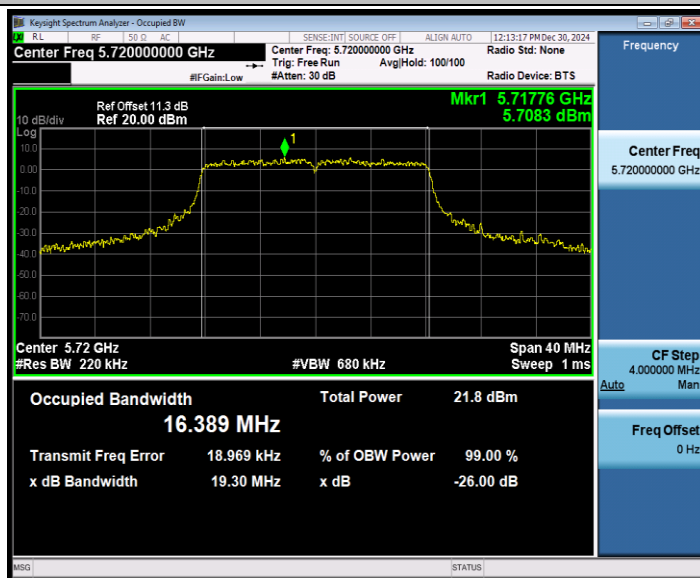
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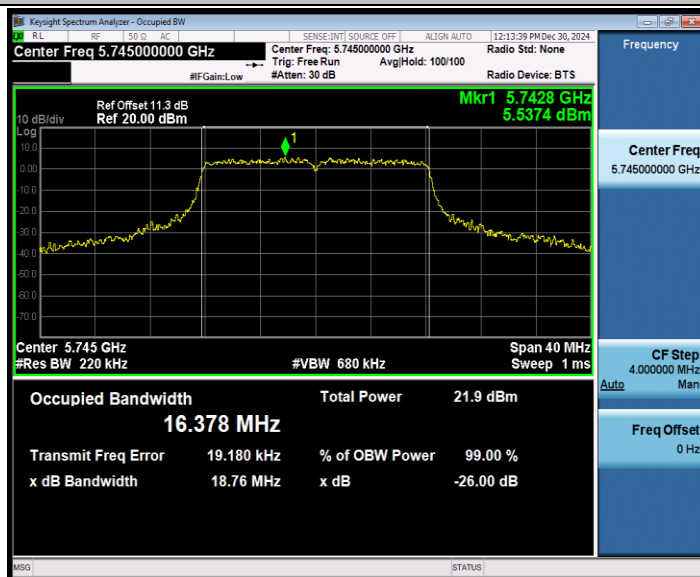
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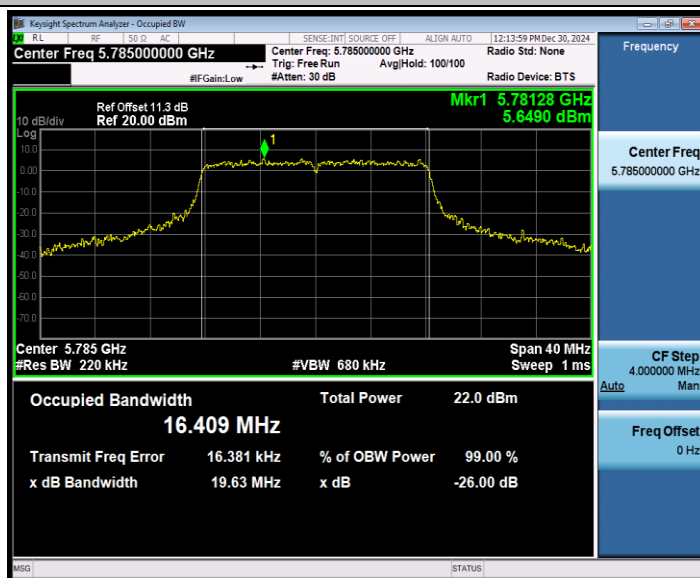
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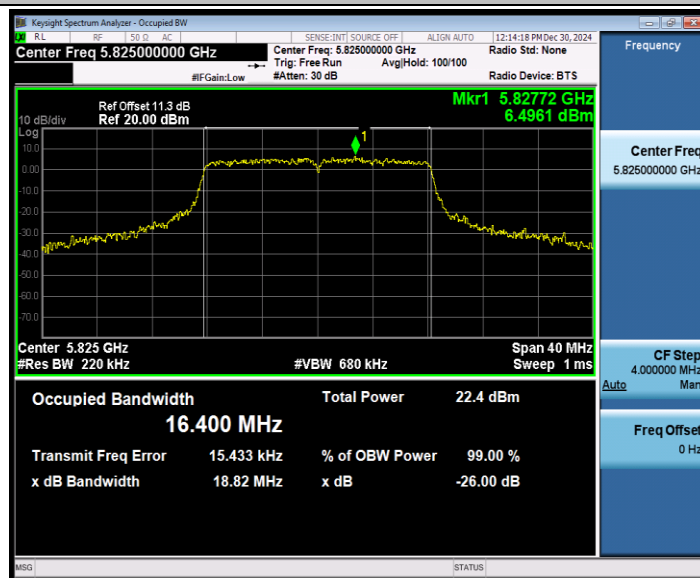
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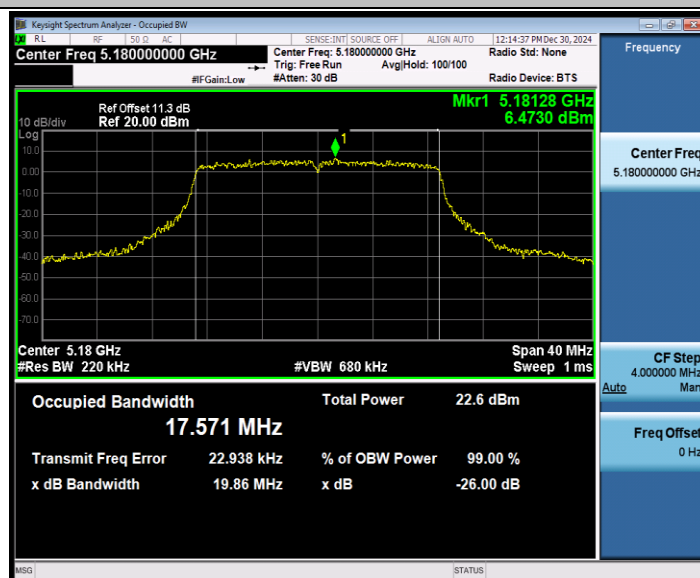
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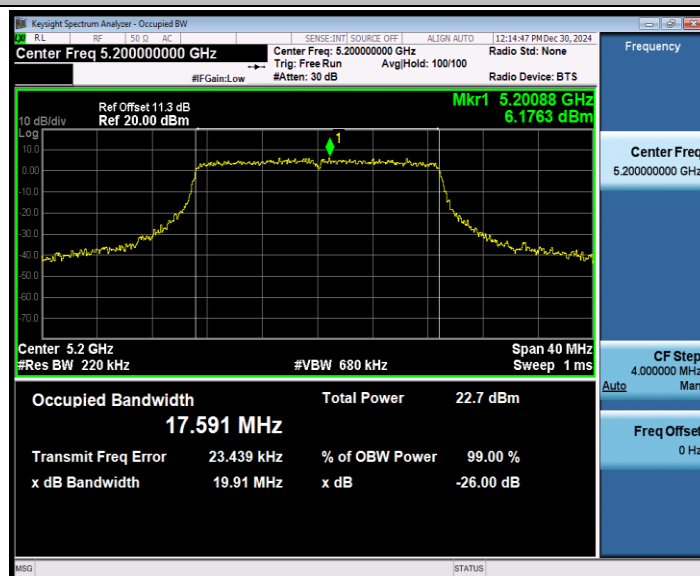
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11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



11N20SISO_Ant1_5260



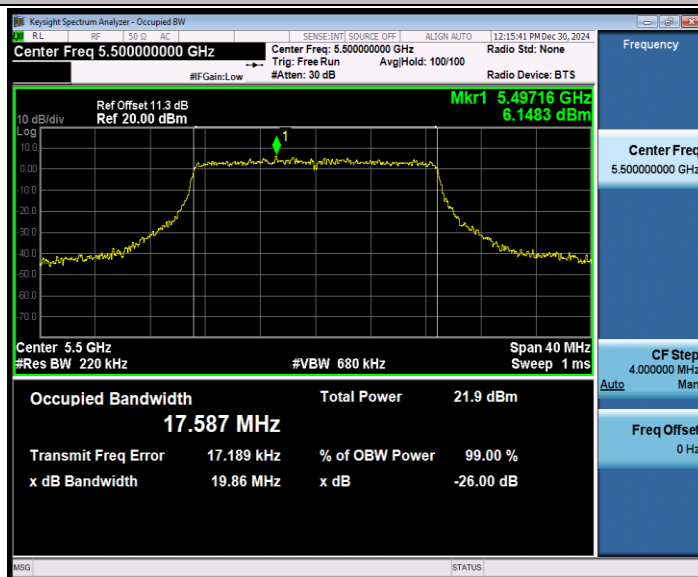
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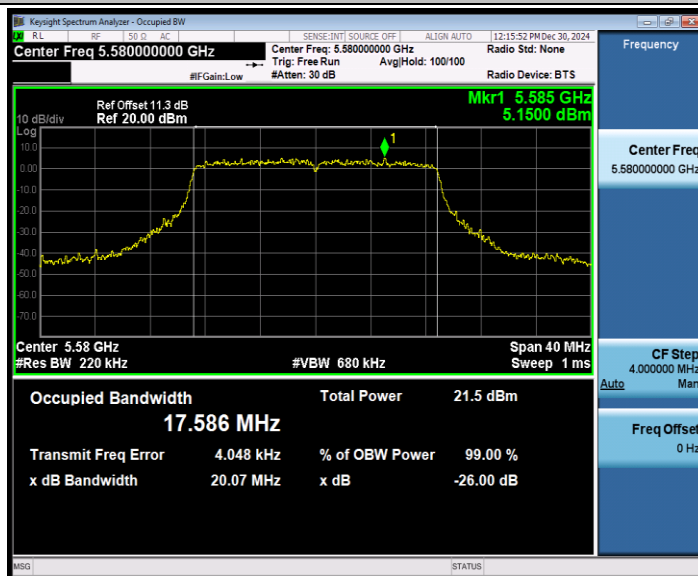
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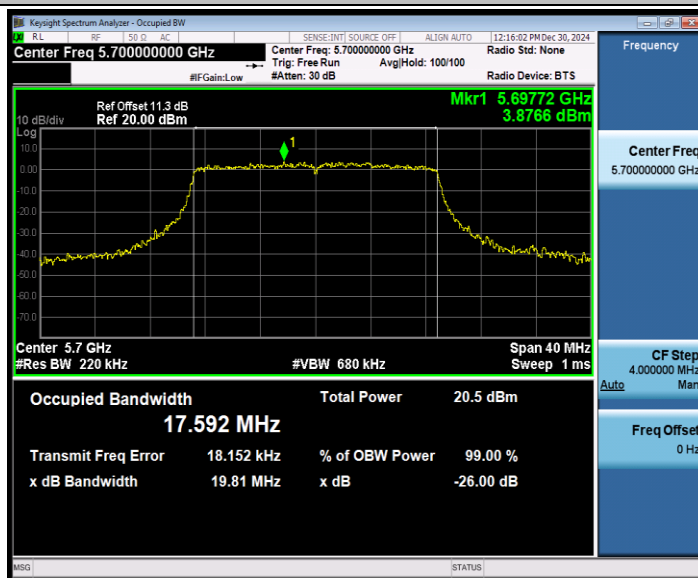
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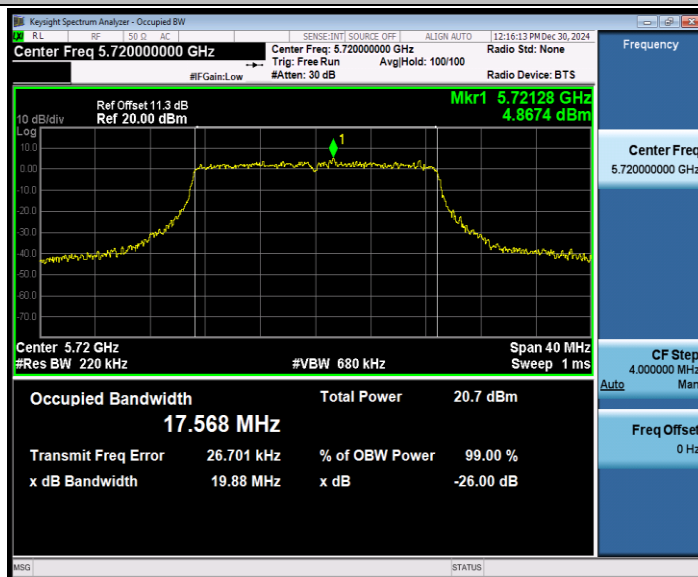
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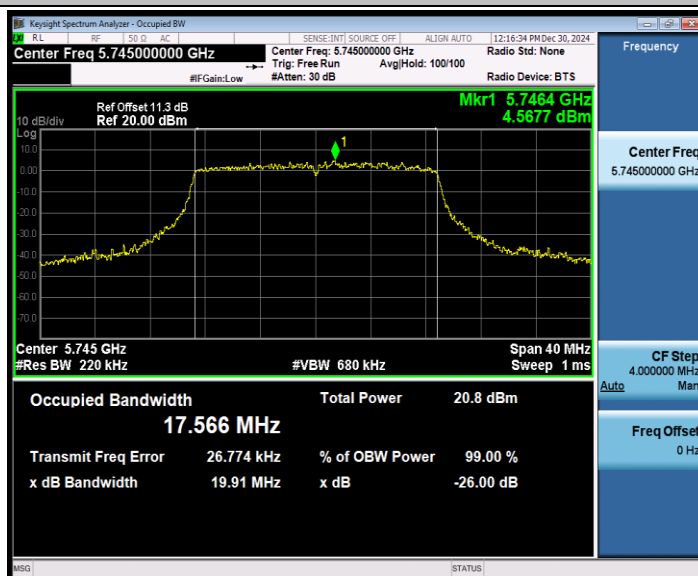
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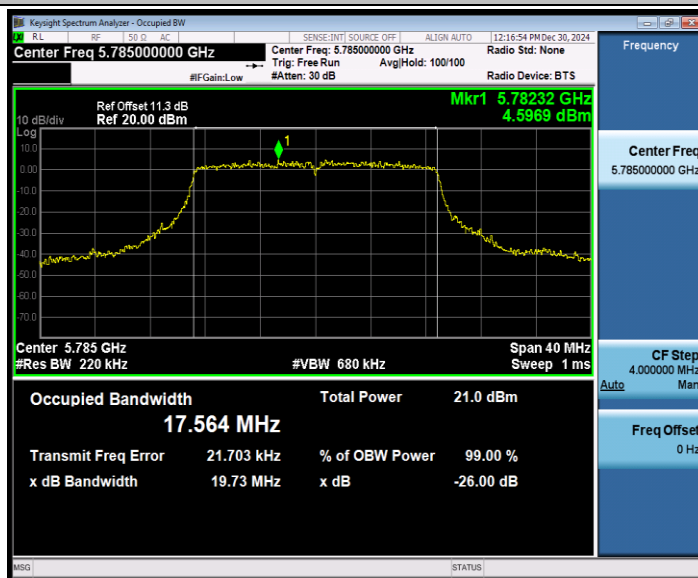
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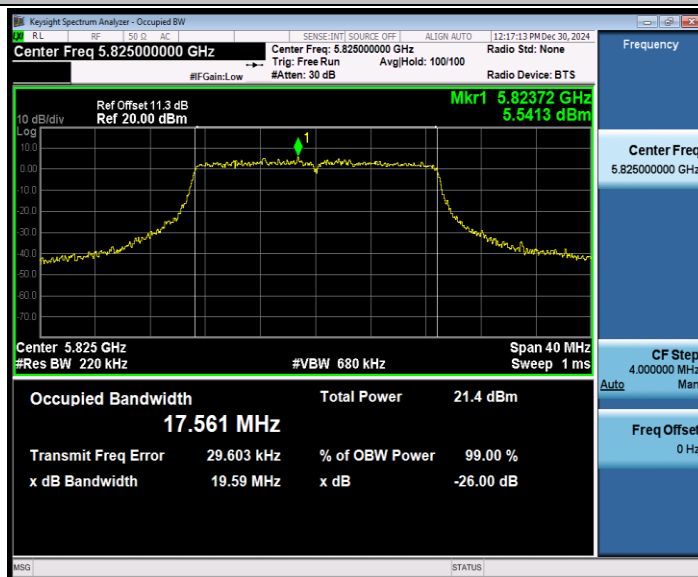
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11N20SISO_Ant1_5785



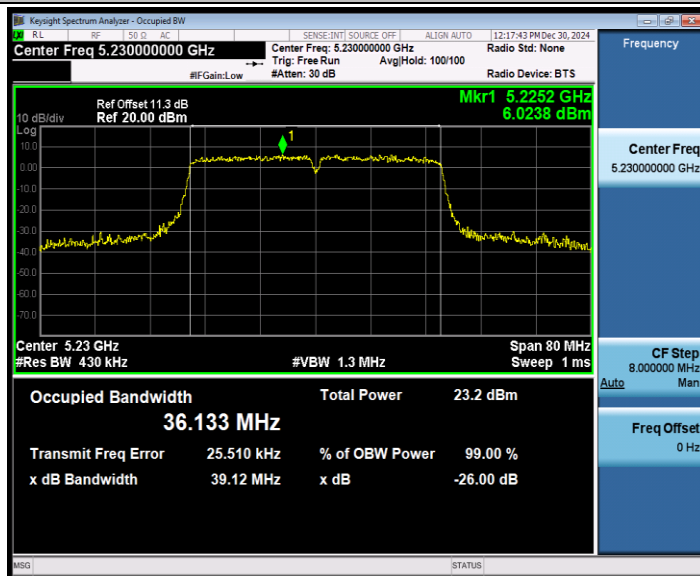
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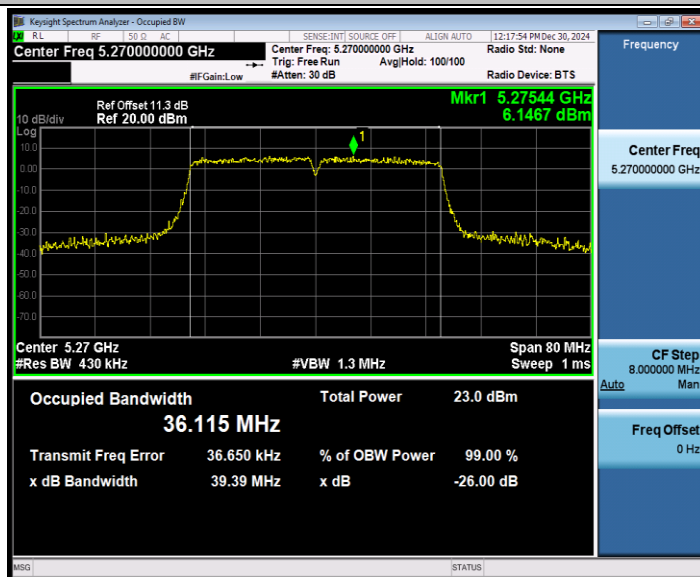
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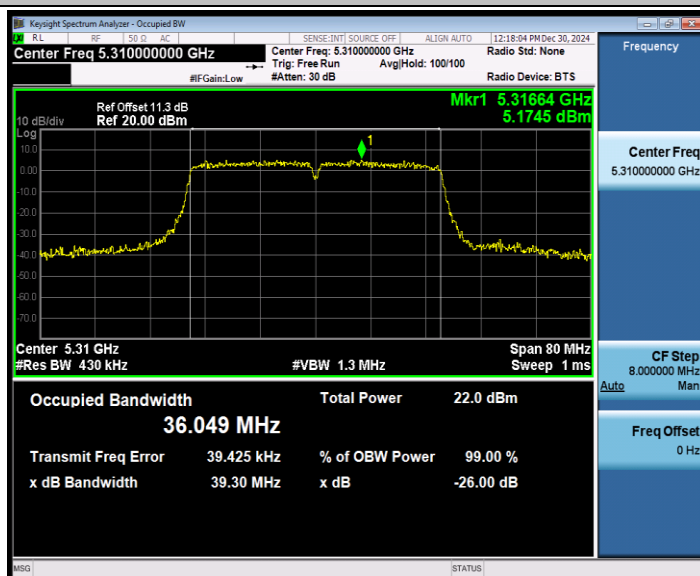
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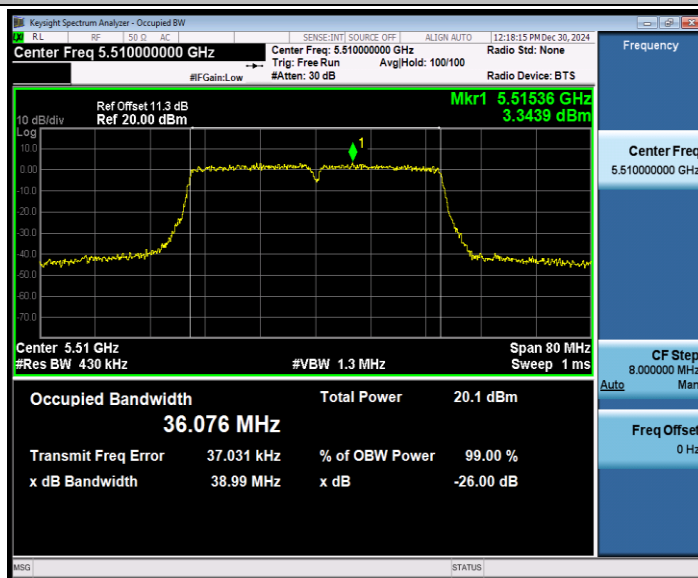
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11N40SISO_Ant1_5310



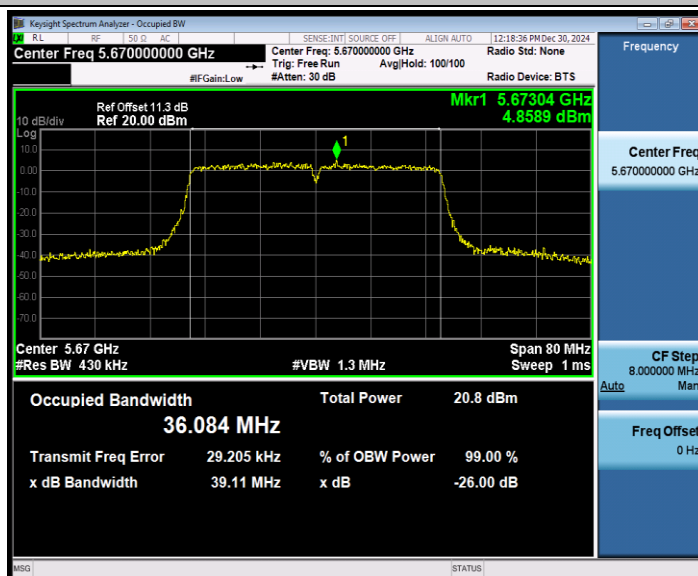
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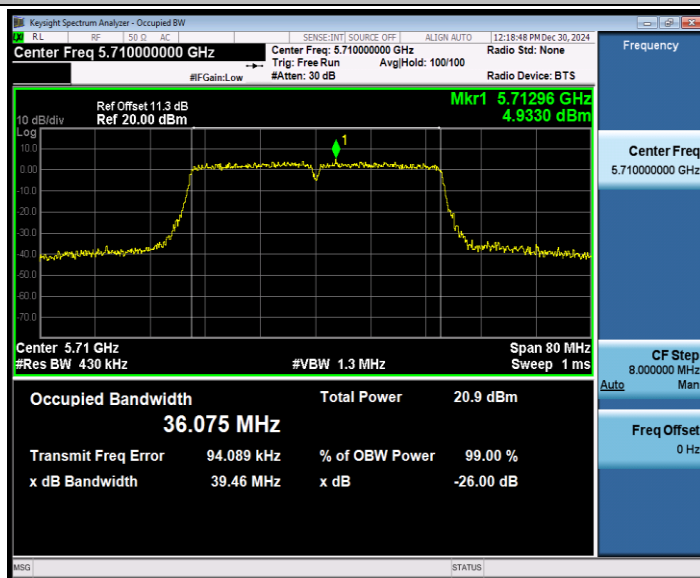
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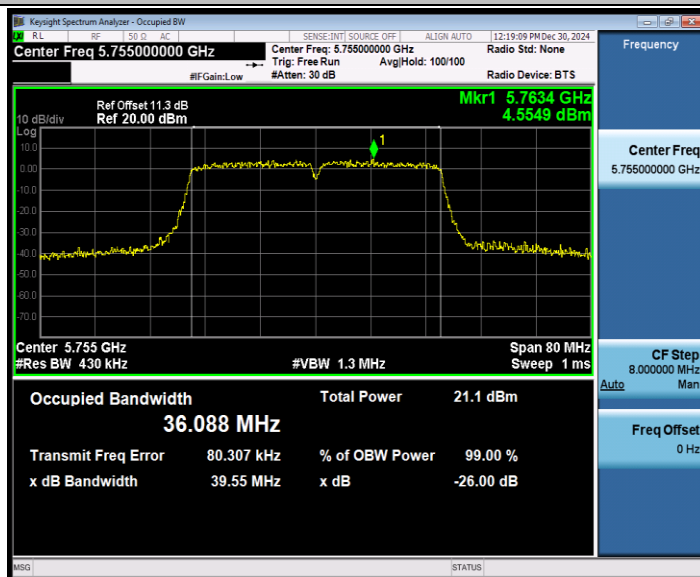
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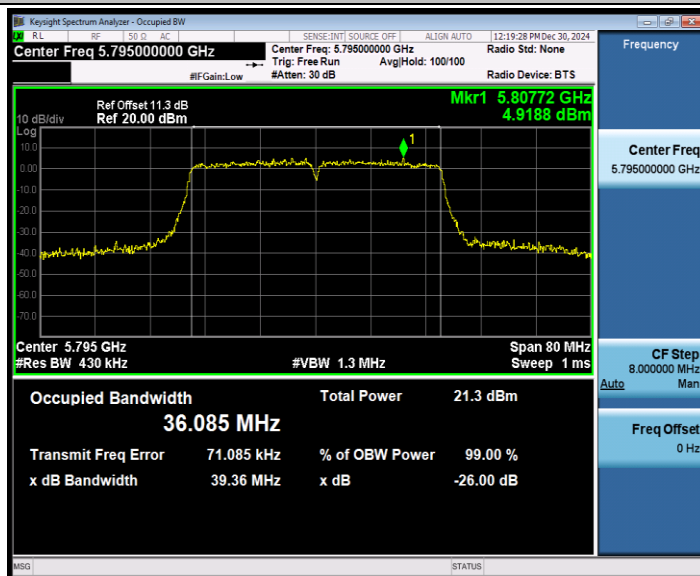
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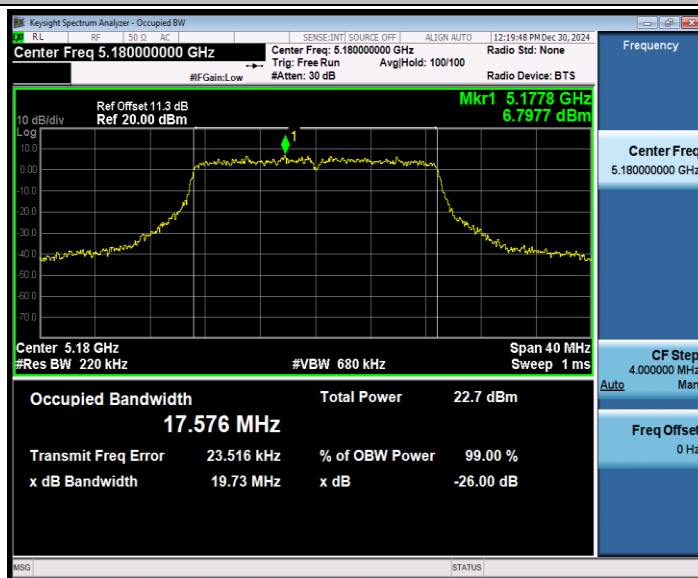
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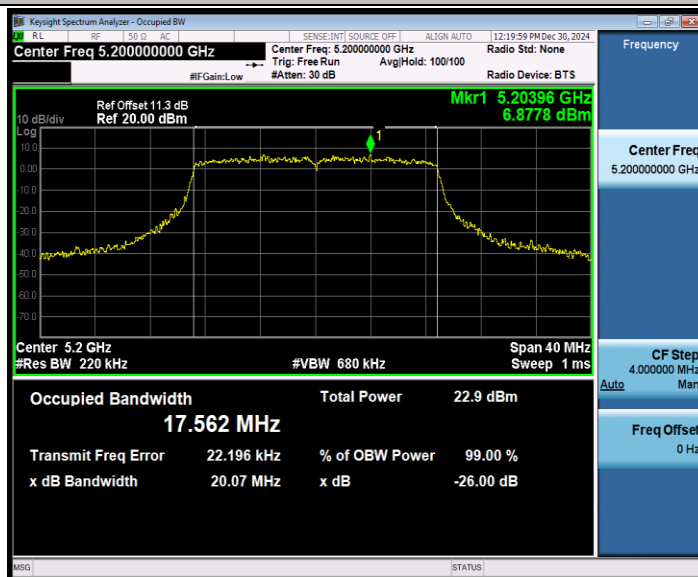
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11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



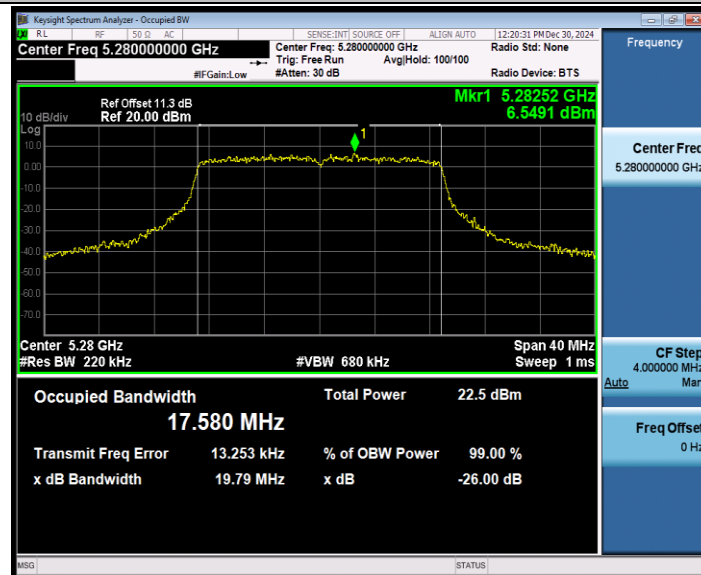
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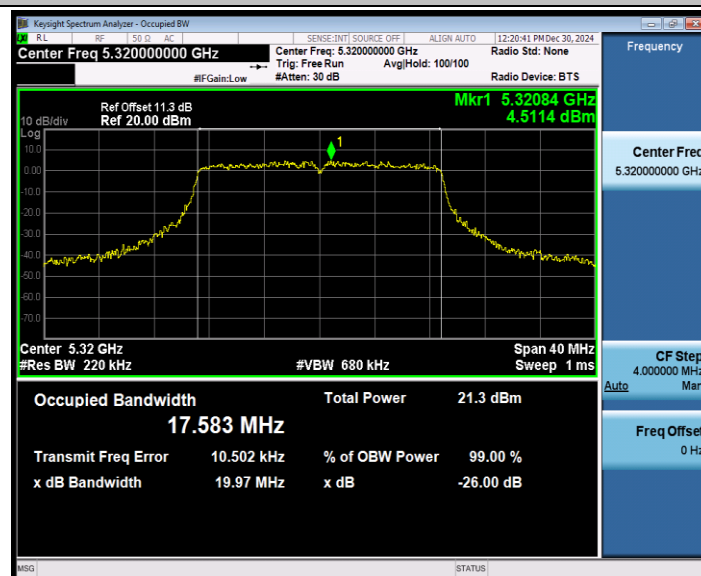
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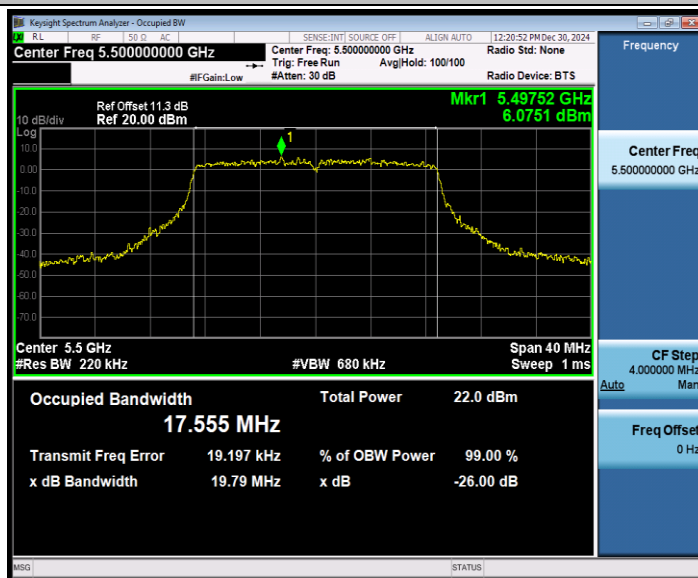
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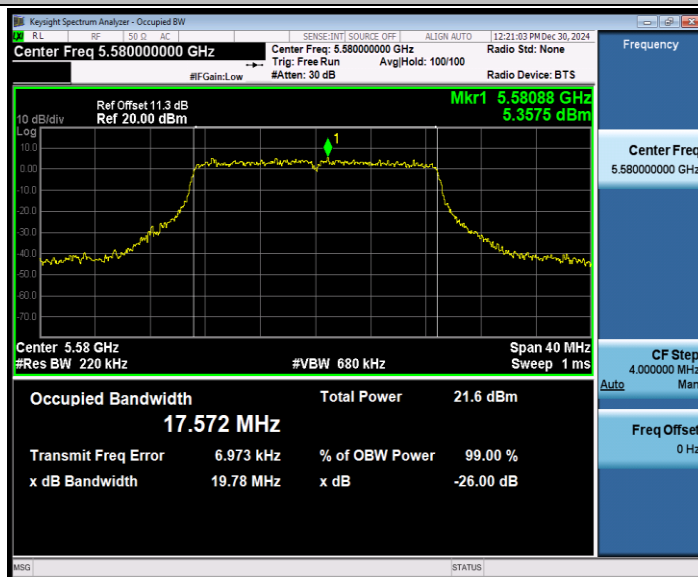
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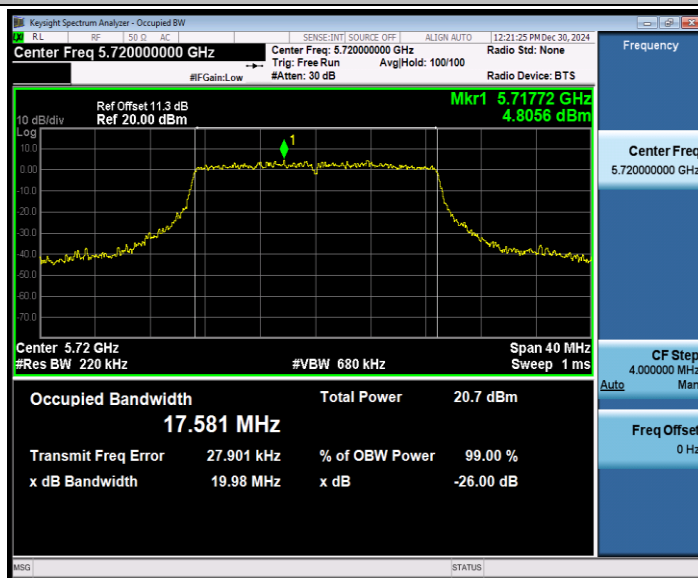
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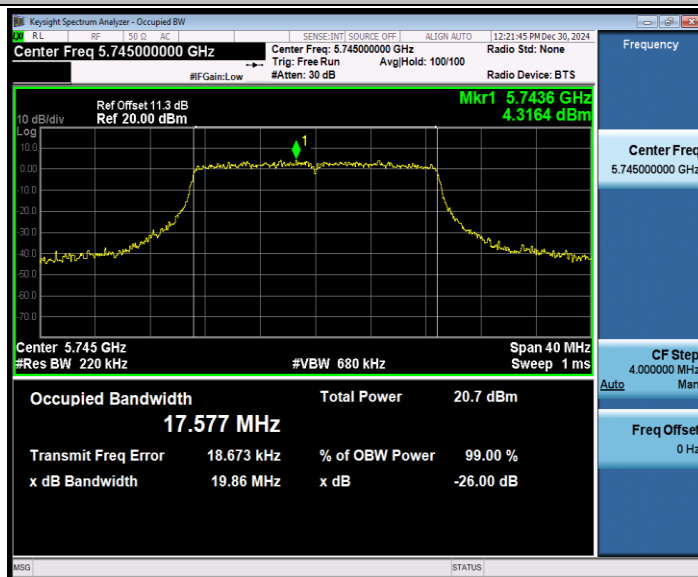
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11AC20SISO_Ant1_5720



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785

