
FCC Test Report

Report No.: AGC10211260312FR04

FCC ID : 2A2P5-CP-0G01

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : Wireless Carplay Adapter (Carplay)

BRAND NAME : *acer*

MODEL NAME : CP-0G01

APPLICANT : Acer Gadget Inc.

DATE OF ISSUE : Mar. 22, 2026

STANDARD(S) : FCC Part 15 Subpart E §15.407

REPORT VERSION : V1.0

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Attestation of Global Compliance(Shenzhen)Co., Ltd
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Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>



Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Mar. 22, 2026	Valid	Initial Release

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Attestation of Global Compliance(Shenzhen)Co., Ltd
Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

Table of Contents

1. General Information	5
2. Product Information	6
2.1 Product Technical Description	6
2.2 Table of Carrier Frequency	7
2.3 IEEE 802.11n Modulation Scheme	8
2.4 Related Submittal(S) / Grant (S)	9
2.5 Test Methodology	9
2.6 Special Accessories	9
2.7 Equipment Modifications	9
2.8 Antenna Requirement	9
3. Test Environment	10
3.1 Address of The Test Laboratory	10
3.2 Test Facility	10
3.3 Environmental Conditions	11
3.4 Measurement Uncertainty	11
3.5 List of Equipment Used	12
4. System Test Configuration	14
4.1 EUT Configuration	14
4.2 EUT Exercise	14
4.3 Configuration of Tested System	14
4.4 Equipment Used in Tested System	15
4.5 Summary of Test Results	16
5. Description of Test Modes	17
6. Duty Cycle Measurement	21
7. RF Output Power Measurement	40
7.1 Provisions Applicable	40
7.2 Measurement Procedure	40
7.3 Measurement Setup (Block Diagram of Configuration)	40
7.4 Measurement Result	41
8. 6dB&26dB Bandwidth Measurement	42
8.1 Provisions Applicable	42
8.2 Measurement Procedure	42
8.3 Measurement Setup (Block Diagram of Configuration)	42
8.4 Measurement Results	43
9. Power Spectral Density Measurement	81

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9.1 Provisions Applicable	81
9.2 Measurement Procedure	81
9.3 Measurement Setup (Block Diagram of Configuration)	81
9.4 Measurement Result	82
10. Conducted Band Edge and Out-of-Band Emissions	102
10.1 Provisions Applicable	102
10.2 Measurement Procedure	102
10.3 Measurement Setup (Block Diagram of Configuration)	103
10.4 Measurement Results	104
11. Radiated Spurious Emission	154
11.1 Measurement Limit	154
11.2 Measurement Procedure	155
11.3 Measurement Setup (Block Diagram of Configuration)	157
11.4 Measurement Result	158
12. AC Power Line Conducted Emission Test	167
12.1 Measurement limit	167
12.2 Block Diagram of Line Conducted Emission Test	167
12.3 Preliminary Procedure of Line Conducted Emission Test	168
12.4 Final Procedure of Line Conducted Emission Test	168
12.5 Test Result of Line Conducted Emission Test:	169
Appendix I: Photographs of Test Setup	171
Appendix II: Photographs of EUT	171

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1. General Information

Applicant	Acer Gadget Inc.
Address	24F., No.112, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City 221, Taiwan
Manufacturer	HK Linghan Technology Co., Limited
Address	Room 803B, 8/F., West Coast International Building, 290-296 Un Chau Street, Cheung Sha Wan, Kowloon, Hong Kong
Product Designation	Wireless Carplay Adapter (Carplay)
Brand Name	<i>acer</i>
Test Model	CP-0G01
Series Model(s)	N/A
Difference Description	N/A
Date of receipt of test item	Mar. 09, 2026
Date of Test	Mar. 09, 2026~ Mar. 22, 2026
Deviation from Standard	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Test Report Form No	AGCER-FCC-5G WLAN-V1

Note: The test results of this report relate only to the tested sample identified in this report.

Prepared By



Cool Cheng
(Project Engineer)

Mar. 22, 2026

Reviewed By



Bibo Zhang
(Reviewer)

Mar. 22, 2026

Approved By



Angela Li
(Authorized Officer)

Mar. 22, 2026

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2. Product Information

2.1 Product Technical Description

Equipment Type	☐ Outdoor access points ☐ Fixed P2P access points	☐ Indoor access points ☒ Client devices
Operation Frequency	☒ U-NII 1:5150MHz~5250MHz ☐ U-NII 2C:5470MHz~5725MHz	☐ U-NII 2A: 5250MHz~5350MHz ☒ U-NII 3: 5725MHz~5850MHz
DFS Design Type	☐ Master ☐ Slave with radar detection	☒ Slave without radar detection
TPC Function	☐ Yes ☒ No	
Hardware Version	BY969_ULTRA_V02	
Software Version	V1.0	
Test Frequency Range	For 802.11a/n-HT20/ac-VHT20/ax-HE20: 5180~5240MHz/5745~5825MHz; For 802.11n-HT40/ac-VHT40/ax-HE40: 5190~5230MHz/5755~5795MHz;	
Modulation	802.11a/n:(64-QAM, 16-QAM, QPSK, BPSK) OFDM 802.11ac :(256-QAM, 64-QAM, 16-QAM, QPSK, BPSK) OFDM 802.11ax :(1024-QAM, 256-QAM, 64-QAM, 16-QAM, QPSK, BPSK) OFDMA	
Data Rate	802.11a:6/9/12/18/24/36/48/54Mbps; 802.11n: up to 300Mbps; 802.11ac: up to 866.7Mbps; 802.11ax: up to 1200Mbps	
Number of channels	7 channels of U-NII-1 Band; 8 channels of U- NII 3 Band	
Antenna Designation	PCB Antenna	
Antenna Gain	5150MHz~5250MHz: -0.35dBi 5725MHz~5850MHz: -1.17dBi	
Power Supply	Input: 5V=== 1A	

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2.2 Table of Carrier Frequency

For 5180~5240MHz:

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

Channel	Frequency	Channel	Frequency
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):

Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz

For 5745~5825MHz:

5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

Channel	Frequency	Channel	Frequency
149	5745 MHz	161	5805 MHz
153	5765 MHz	165	5825 MHz
157	5785 MHz	--	--

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40) , 802.11ax (HE40):

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

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2.3 IEEE 802.11n Modulation Scheme

MCS Index	N _{ss}	Modulation	R	N _{BPSC}	N _{CBPS}		N _{DBPS}		Data rate (Mbps)	
					20MHz	40MHz	20MHz	40MHz	800nsGI	
0	1	BPSK	1/2	1	52	108	26	54	6.5	13.5
1	1	QPSK	1/2	2	104	216	52	108	13.0	27.0
2	1	QPSK	3/4	2	104	216	78	162	19.5	40.5
3	1	16-QAM	1/2	4	208	432	104	216	26.0	54.0
4	1	16-QAM	3/4	4	208	432	156	324	39.0	81.0
5	1	64-QAM	2/3	6	312	648	208	432	52.0	108.0
6	1	64-QAM	3/4	6	312	648	234	489	58.5	121.5
7	1	64-QAM	5/6	6	312	648	260	540	65.0	135.0

Symbol	Explanation
NSS	Number of spatial streams
R	Code rate
NBPSC	Number of coded bits per single carrier
NCBPS	Number of coded bits per symbol
NDBPS	Number of data bits per symbol
GI	Guard interval

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2.4 Related Submittal(S) / Grant (S)

This submittal(s) (test report) is intended for **FCC ID: 2A2P5-CP-0G01** filing to comply with the FCC Part 15 requirements.

2.5 Test Methodology

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+Cor.1-2023	American National Standard for Testing Unlicensed Wireless Devices
4	KDB 662911	662911 D01 Multiple Transmitter Output v02r01
5	KDB 789033	789033 D02 General U-NII Test Procedures New Rules v02r01

2.6 Special Accessories

Refer to section 4.4.

2.7 Equipment Modifications

Not available for this EUT intended for grant.

2.8 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.
EUT Antenna: The non-detachable antenna inside the device cannot be replaced by the user at will. The gain of the antenna refer to Section 2.1 of the report

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3. Test Environment

3.1 Address of The Test Laboratory

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

3.2 Test Facility

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

CNAS-Lab Code: L5488

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to follow CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories.)

A2LA-Lab Cert. No.: 5054.02

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to follow ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 975832

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

IC-Registration No.: 24842 (CAB identifier: CN0063)

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.

3.3 Environmental Conditions

	Normal Conditions
Temperature range (°C)	15 - 35
Relative humidity range	20% - 75%
Pressure range (kPa)	86 - 106

3.4 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

Item	Measurement Uncertainty
Uncertainty of Conducted Emission for AC Port	$U_c = \pm 2.9 \text{ dB}$
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 3.9 \text{ dB}$
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.9 \text{ dB}$
Uncertainty of total RF power, conducted	$U_c = \pm 0.8 \text{ dB}$
Uncertainty of RF power density, conducted	$U_c = \pm 2.6 \text{ dB}$
Uncertainty of spurious emissions, conducted	$U_c = \pm 2 \%$
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2.7 \%$
Uncertainty of Duty Cycle	$U_c = \pm 2 \%$

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3.5 List of Equipment Used

● RF Conducted Test System							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
☒	AGC-ER-E036	Spectrum Analyzer	Agilent	N9020A	MY49100060	2025-05-08	2026-05-07
☒	AGC-ER-E092	Spectrum Analyzer	R&S	FSV40	101321	2025-05-08	2026-05-07
☒	AGC-ER-A007	6dB Fixed Attenuator	Mini circuits	BW-S6-2W263A+	N/A	2026-01-31	2028-01-30
☒	N/A	RF Connection Cable	N/A	1#	N/A	Each time	N/A
☒	N/A	RF Connection Cable	N/A	2#	N/A	Each time	N/A
☐	AGC-ER-E091	DC Power Supply	AIDEKESI	IT6720	800103030787810080	2024-03-28	2026-03-27

● Radiated Spurious Emission							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
☒	AGC-EM-E046	EMI Test Receiver	R&S	ESCI	100096	2026-01-13	2027-01-12
☐	AGC-EM-E116	EMI Test Receiver	R&S	ESCI	100034	2025-05-08	2026-05-07
☒	AGC-EM-E061	Spectrum Analyzer	Agilent	N9010A	MY53470504	2025-05-08	2026-05-07
☒	AGC-EM-E086	Loop Antenna	ZHINAN	ZN30900C	18051	2026-01-14	2028-01-13
☒	AGC-EM-E001	Wideband Antenna	SCHWARZBECK	VULB9168	D69250	2025-03-14	2027-03-13
☒	AGC-EM-E029	Broadband Ridged Horn Antenna	ETS	3117	00034609	2025-03-27	2026-03-26
☒	AGC-EM-E082	Horn Antenna	SCHWARZBECK	BBHA 9170	#768	2025-09-10	2027-09-09
☒	AGC-EM-E146	Pre-amplifier	ETS	3117-PA	00246148	2024-07-24	2026-07-23
☒	AGC-EM-A119	2.4GHz Filter	SongYi	N/A	N/A	2025-05-16	2026-05-15
☒	AGC-EM-A138	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2025-05-16	2027-05-15
☐	AGC-EM-A139	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2025-05-16	2027-05-15

● AC Power Line Conducted Emission							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
☒	AGC-EM-E116	EMI Test Receiver	R&S	ESCI	100034	2025-05-08	2026-05-07
☒	AGC-EM-A171	Attenuator	Mini-Circuits	UNAT-10A+	DC-6GZ	2026-01-13	2028-01-12
☒	AGC-EM-E023	AMN	R&S	ESH2-Z5	100086	2025-05-08	2026-05-07

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● Test Software					
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Version Information
☒	AGC-EM-S001	CE Test System	R&S	ES-K1	V1.71
☐	AGC-EM-S003	RE Test System	FARA	EZ-EMC	VRA-03A
☒	AGC-EM-S004	RE Test System	Tonscend	TS+ Ver2.1(JS32-RE)	4.0.0.0
☒	AGC-ER-S012	BT/WIFI Test System	Tonscend	JS1120-2	2.6
☒	AGC-EM-S011	RSE Test System	Tonscend	TS+-Ver2.1(JS36-RSE)	4.0.0.0

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4. System Test Configuration

4.1 EUT Configuration

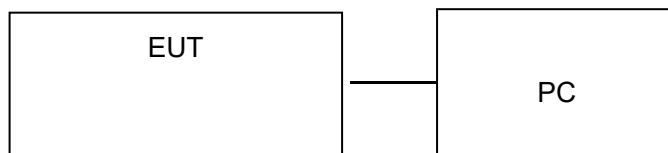
The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

4.2 EUT Exercise

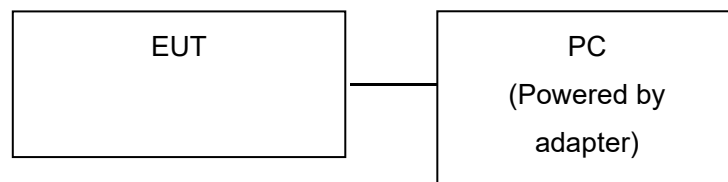
The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

4.3 Configuration of Tested System

Radiated Emission Configure:



Conducted Emission



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4.4 Equipment Used in Tested System

The following peripheral devices and interface cables were connected during the measurement:

☒ Test Accessories Come From The Laboratory

No.	Equipment	Manufacturer	Model No.	Specification Information	Cable
1	PC	ASUS	X454L	--	--
2	Adapter	ASUS	W23-065N2C	DC 20V/3.25A	--

☐ Test Accessories Come From The Manufacturer

No.	Equipment	Manufacturer	Model No.	Specification Information	Cable
1	--	--	--	--	--

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4.5 Summary of Test Results

Item	FCC Rules	Description Of Test	Result
1	§15.203	Antenna Equipment	Pass
2	§15.407(a/1/2/3)	RF Output Power	Pass
3	§15.407(e)	6dB Bandwidth Measurement	Pass
4	§15.403(i)	26dB bandwidth Measurement	Pass
5	§15.407(g)	Frequency Stability	Pass (See Note 1)
6	§15.407(C)	Transmission Discontinuation Requirement	Pass (See Note 2)
7	§15.407(a/1/2/3)	Power Spectral Density	Pass
8	§15.407(b)(1/2/3/4/5)	Conducted Band Edge and Out-of-Band Emissions	Pass
9	§15.209,§15.407(b) (1/2/3/4/5)	Radiated Spurious Emission	Pass
10	§15.207	AC Power Line Conducted Emission	Pass

Note:

1. Refer to the manufacturer's declaration in the user manual.
2. The device operates without the transmission of information.

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5. Description of Test Modes

EUT Configure Mode	Applicable To				Description
	RE > 1G	RE < 1G	PLC	APCM	
A	--	--	☒	--	WIFI(5G) Link
B	☒	☒	--	☒	Continuous transmit
C	--	--	--	--	--

Where, **RE > 1G: Radiated Emission above 1GHz** **PLC: Power Line Conducted Emission**
RE < 1G: Radiated Emission below 1GHz **APCM: Antenna Port Conducted Measurement.**

NOTE 1: "--" means no effect.

● Radiated Emission Test (Above 1GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations be Meen available modulations, data rates and antenna ports (IF EUT with antenna diversity architecture).
- ☒ Support 802.11ax, device debugging is tested in Full RU state
- ☐ The device under test has multiple antennas. The mode that supports MIMO technology records the worst data, and the mode that does not support MIMO technology records antenna 1 as the worst data.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Freq. Band (MHz)	Available Channel	Tested Channel	Modulation	Data Rate (Mbps)
B	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	MCS0

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● **Radiated Emission Test (Below 1GHz):**

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations be Meen available modulations, data rates and antenna ports (If EUT with antenna diversity architecture).
- ☐ The device under test has multiple antennas. The mode that supports MIMO technology records the worst data, and the mode that does not support MIMO technology records antenna 1 as the worst data.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Freq. Band (MHz)	Available Channel	Tested Channel	Modulation	Data Rate (Mbps)
B	802.11a	5180-5240	36 to 48	36	OFDM	MCS0

● **Power Line Conducted Emission Test:**

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations be Meen available modulations, data rates and antenna ports (If EUT with antenna diversity architecture).
- ☒ The device under test has multiple antennas. The mode that supports MIMO technology records the worst data, and the mode that does not support MIMO technology records antenna 1 as the worst data.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Freq. Band (MHz)	Available Channel	Tested Channel	Modulation	Data Rate (Mbps)
A	802.11a	5180-5240	36 to 48	36	OFDM	MCS0

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● **Band edge Measurement:**

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations be Meen available modulations, data rates and antenna ports (If EUT with antenna diversity architecture).
- ☒ Support 802.11ax, device debugging is tested in Full RU state
- ☐ The device under test has multiple antennas. The mode that supports MIMO technology records the worst data, and the mode that does not support MIMO technology records antenna 1 as the worst data.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Freq. Band (MHz)	Available Channel	Tested Channel	Modulation	Data Rate (Mbps)
B	802.11a	5180-5240	36 to 48	36	OFDM	6.0
B	802.11n (40MHz)		38 to 46	38	OFDM	MCS0
B	802.11ax (40MHz)		42	42	OFDM	MCS0
B	802.11a	5745-5825	149 to 165	149, 165	OFDM	6.0
B	802.11n (40MHz)		151 to 159	151, 159	OFDM	MCS0
B	802.11ax (40MHz)		155	155	OFDM	MCS0

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● **Antenna Port Conducted Measurement:**

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations be Meen available modulations, data rates and antenna ports (If EUT with antenna diversity architecture).
- ☒ Support 802.11ax, device debugging is tested in Full RU state
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Freq. Band (MHz)	Available Channel	Tested Channel	Modulation	Data Rate (Mbps)
B	802.11a	5180-5240	36 to 48	36, 48	OFDM	6.0
B	802.11n (40MHz)		38 to 46	38, 46	OFDM	MCS0
B	802.11ax (40MHz)		42	42	OFDM	MCS0
B	802.11a	5745-5825	149 to 165	149, 165	OFDM	6.0
B	802.11n (40MHz)		151 to 159	151, 159	OFDM	MCS0
B	802.11ax (40MHz)		155	155	OFDM	MCS0

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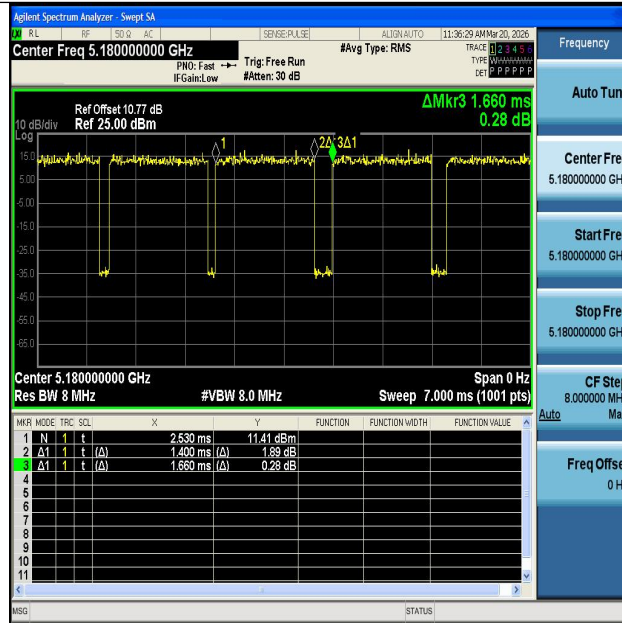
6. Duty Cycle Measurement

5GHz WLAN (NII) operation is possible in 20MHz, 40MHz and 80MHz channel bandwidths. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = Average. The RBW and VBW were both greater than $50/T$, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

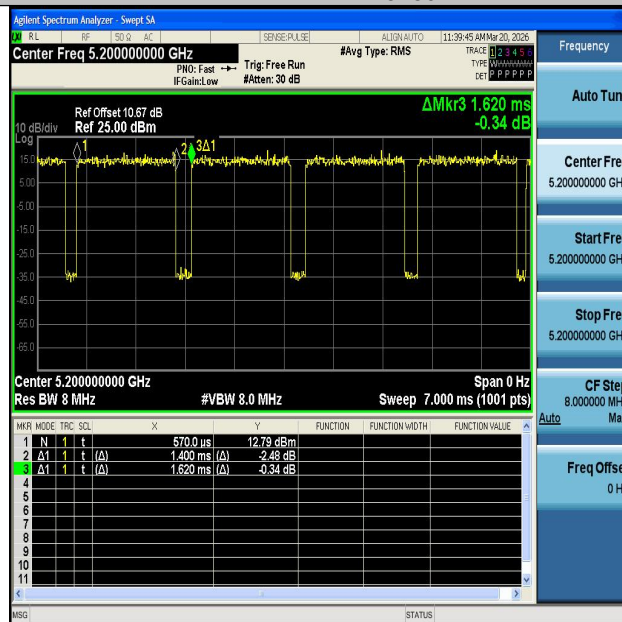
Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Dc. Factor [%]	1/T [kHz]
11A	Ant1	5180	1.40	1.66	84.34	0.74	0.71
11A	Ant1	5200	1.40	1.62	86.42	0.63	0.71
11A	Ant1	5240	1.39	1.55	89.68	0.47	0.72
11N20SISO	Ant1	5180	0.55	0.75	73.33	1.35	1.82
11N20SISO	Ant1	5200	0.54	0.70	77.14	1.13	1.85
11N20SISO	Ant1	5240	0.54	0.68	79.41	1.00	1.85
11N40SISO	Ant1	5190	0.52	0.59	88.14	0.55	1.92
11N40SISO	Ant1	5230	0.52	0.66	78.79	1.04	1.92
11AC20SISO	Ant1	5180	0.46	0.61	75.41	1.23	2.17
11AC20SISO	Ant1	5200	0.46	0.65	70.77	1.50	2.17
11AC20SISO	Ant1	5240	0.47	0.63	74.60	1.27	2.13
11AC40SISO	Ant1	5190	0.41	0.55	74.55	1.28	2.44
11AC40SISO	Ant1	5230	0.41	0.63	65.08	1.87	2.44
11AX20SISO	Ant1	5180	0.29	0.49	59.18	2.28	3.45
11AX20SISO	Ant1	5200	0.29	0.46	63.04	2.00	3.45
11AX20SISO	Ant1	5240	0.29	0.44	65.91	1.81	3.45
11AX40SISO	Ant1	5190	0.29	0.41	70.73	1.50	3.45
11AX40SISO	Ant1	5230	0.29	0.47	61.70	2.10	3.45
11A	Ant1	5745	1.40	1.58	88.61	0.53	0.71
11A	Ant1	5785	1.40	1.55	90.32	0.44	0.71
11A	Ant1	5825	1.40	1.61	86.96	0.61	0.71
11N20SISO	Ant1	5745	0.54	0.67	80.60	0.94	1.85
11N20SISO	Ant1	5785	0.55	0.76	72.37	1.40	1.82
11N20SISO	Ant1	5825	0.54	0.76	71.05	1.48	1.85
11N40SISO	Ant1	5755	0.53	0.68	77.94	1.08	1.89
11N40SISO	Ant1	5795	0.52	0.66	78.79	1.04	1.92
11AC20SISO	Ant1	5745	0.46	0.64	71.88	1.43	2.17
11AC20SISO	Ant1	5785	0.46	0.64	71.88	1.43	2.17
11AC20SISO	Ant1	5825	0.46	0.65	70.77	1.50	2.17
11AC40SISO	Ant1	5755	0.41	0.59	69.49	1.58	2.44
11AC40SISO	Ant1	5795	0.41	0.52	78.85	1.03	2.44
11AX20SISO	Ant1	5745	0.29	0.50	58.00	2.37	3.45
11AX20SISO	Ant1	5785	0.29	0.52	55.77	2.54	3.45
11AX20SISO	Ant1	5825	0.29	0.50	58.00	2.37	3.45
11AX40SISO	Ant1	5755	0.29	0.46	63.04	2.00	3.45
11AX40SISO	Ant1	5795	0.29	0.45	64.44	1.91	3.45

The test plots as follows:

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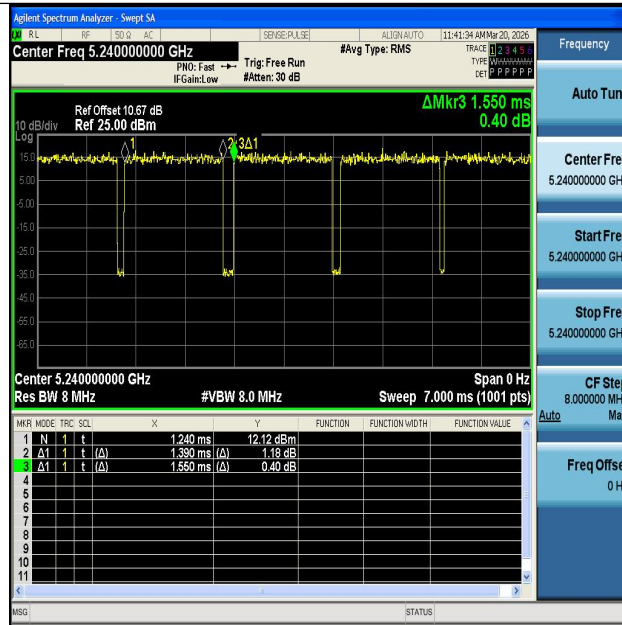


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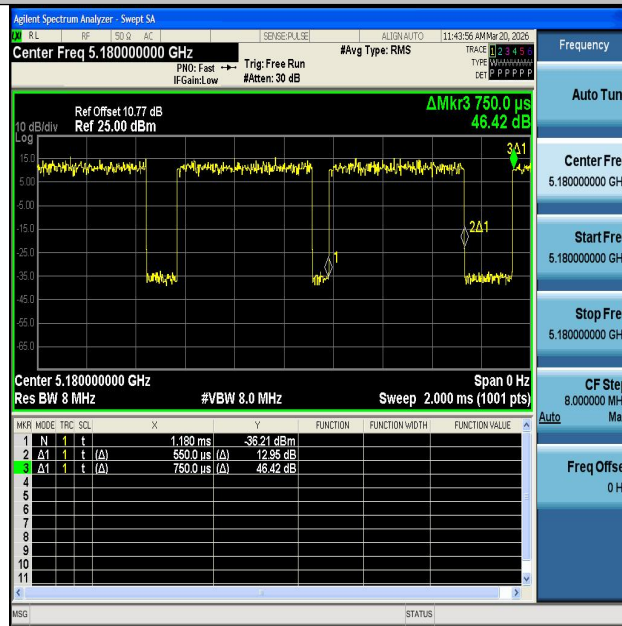


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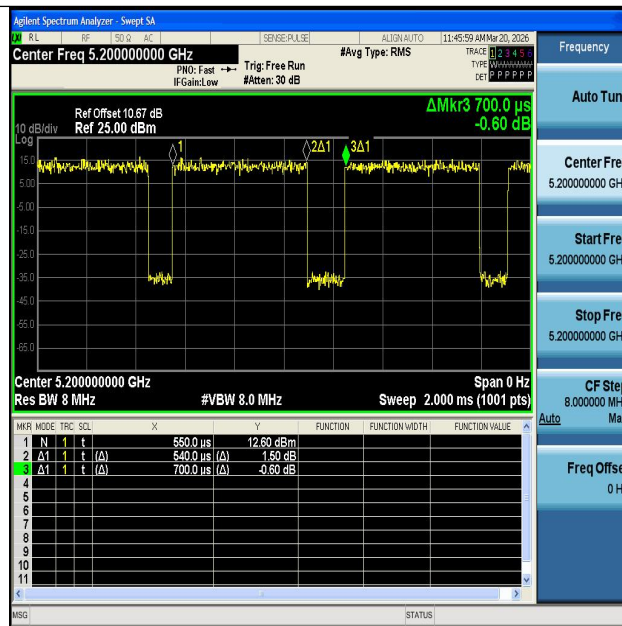
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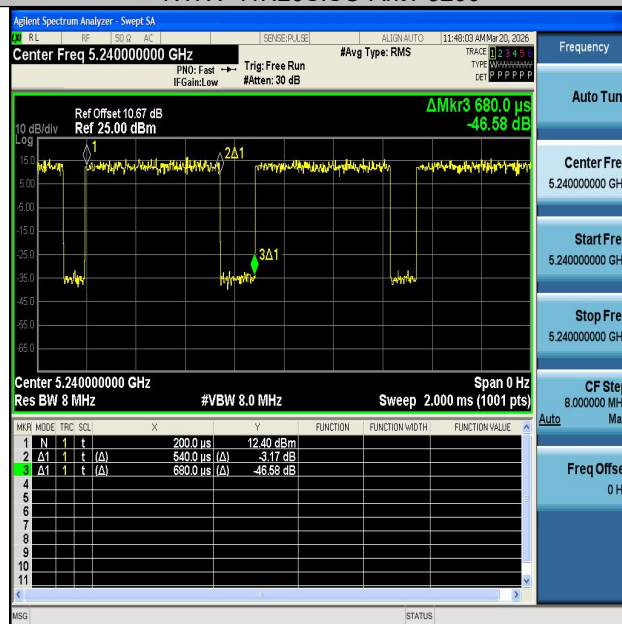
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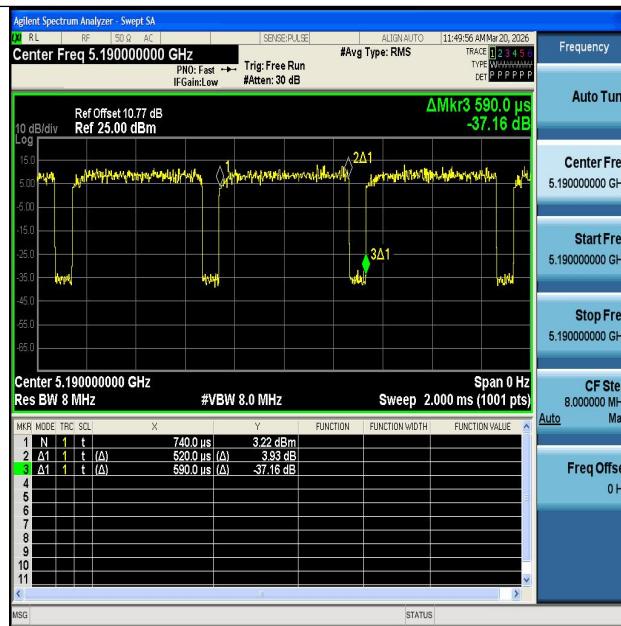
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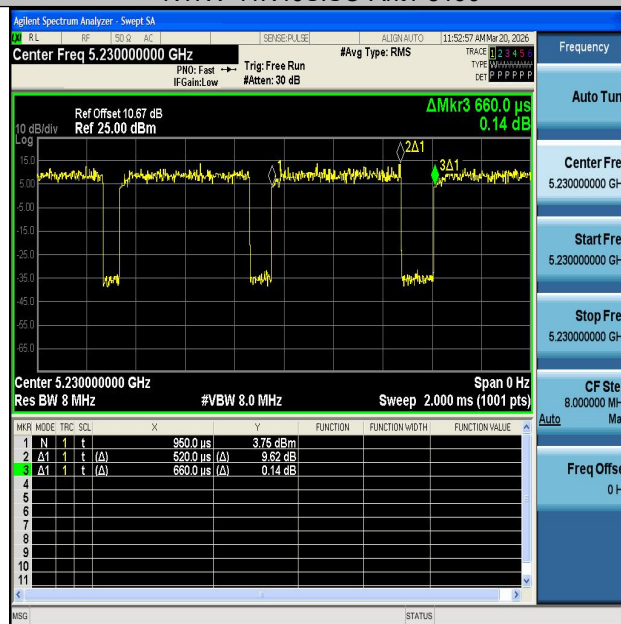
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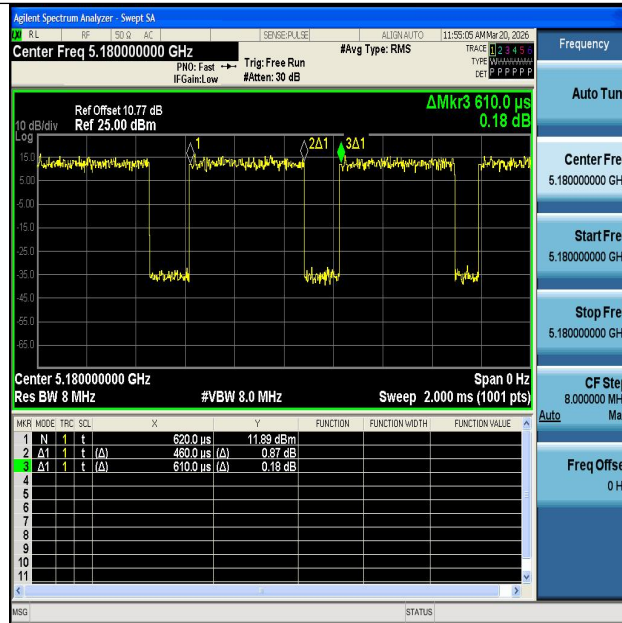
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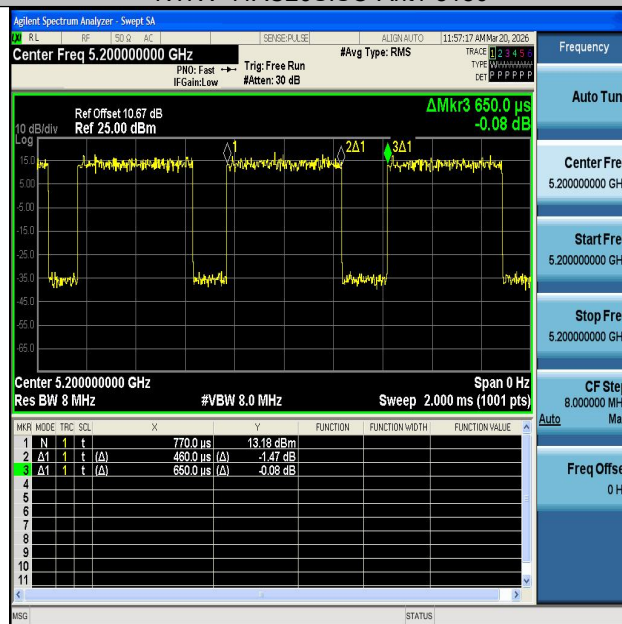
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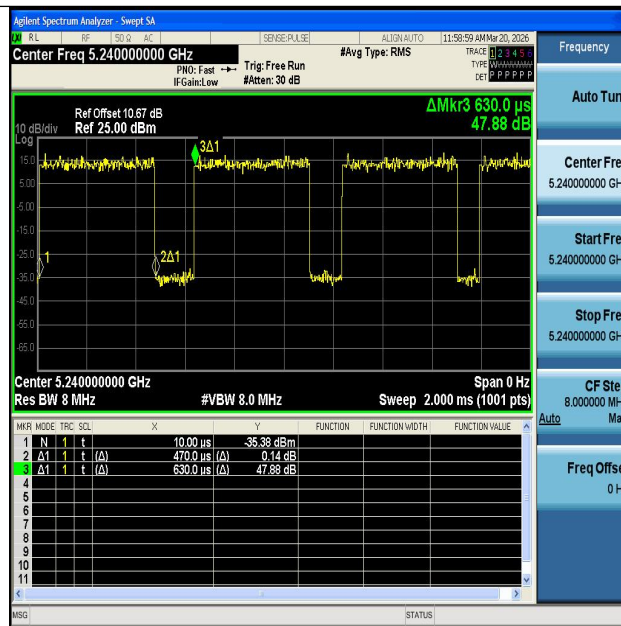
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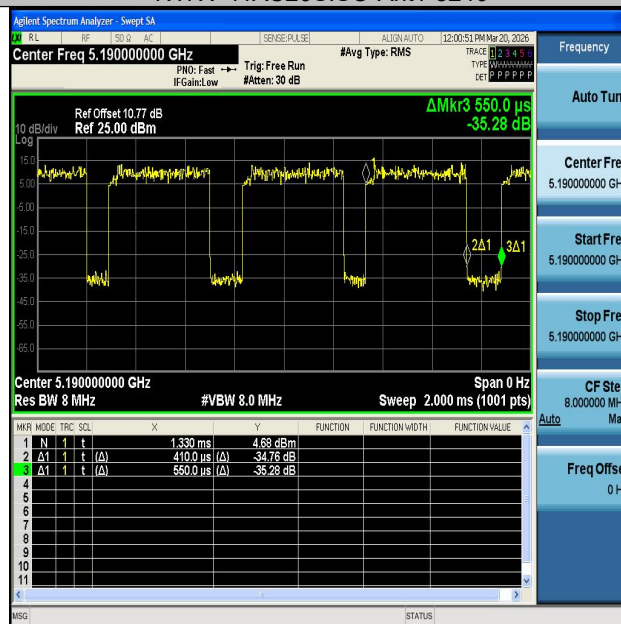
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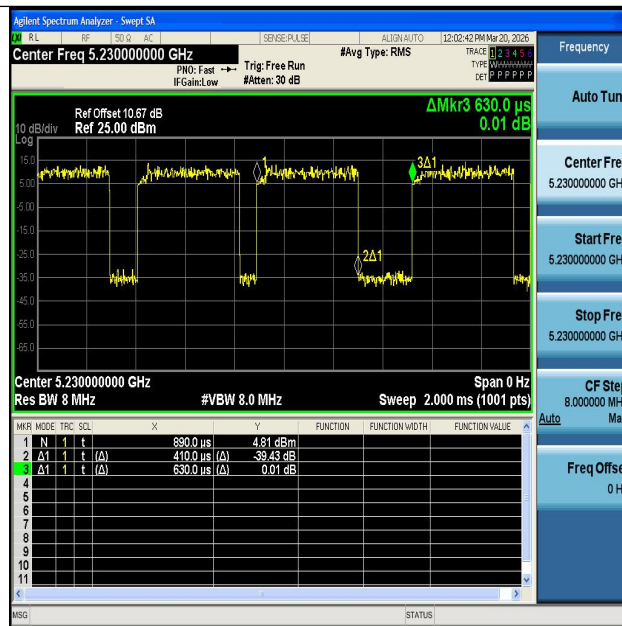
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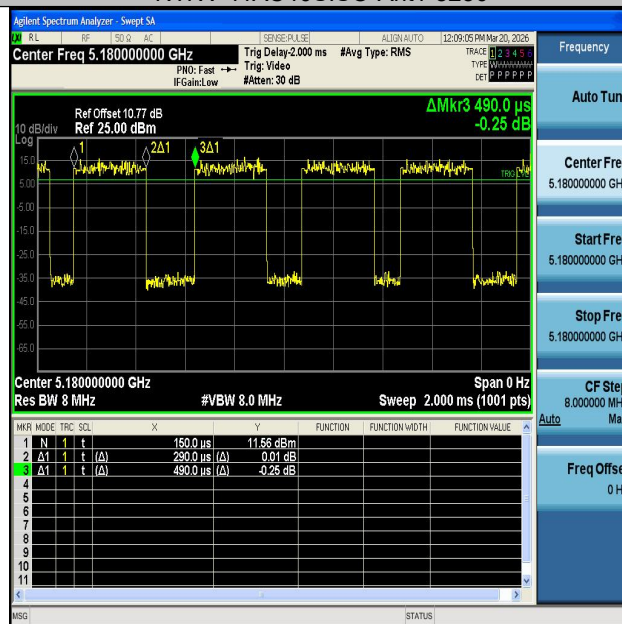
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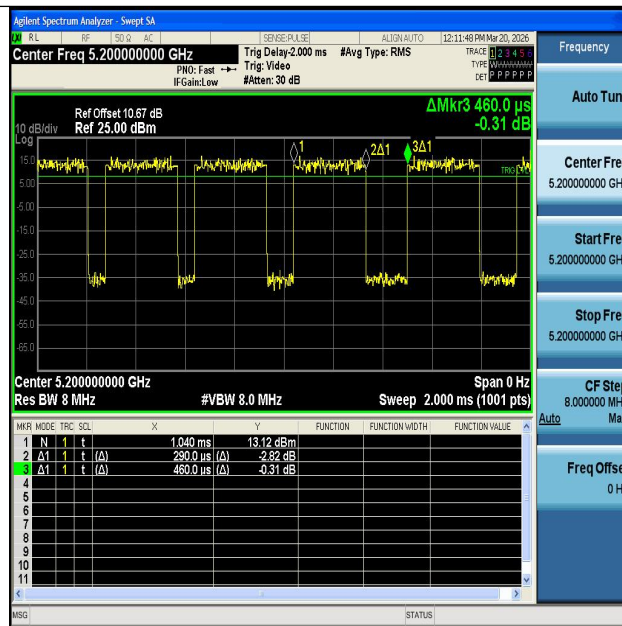
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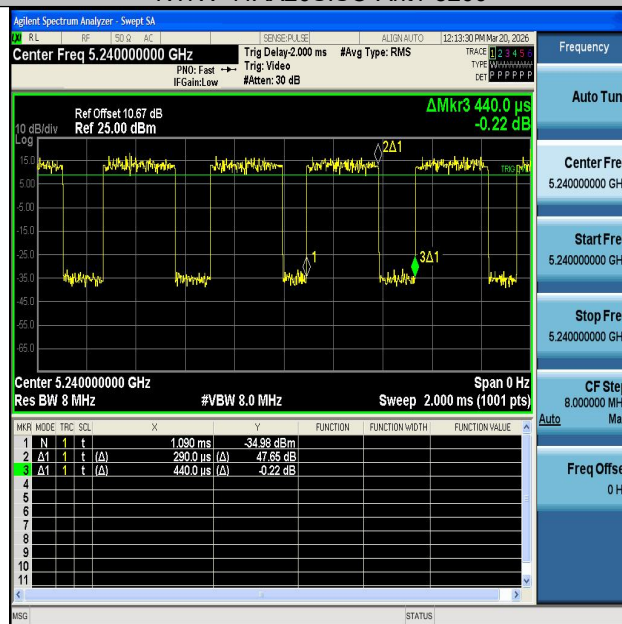
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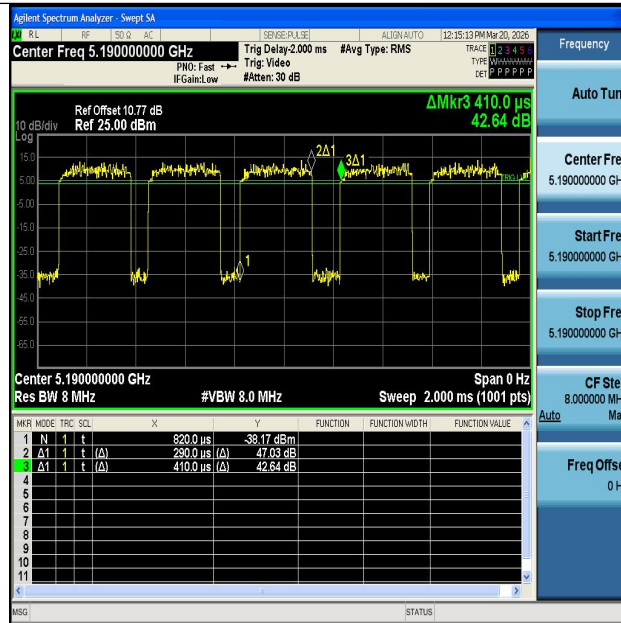
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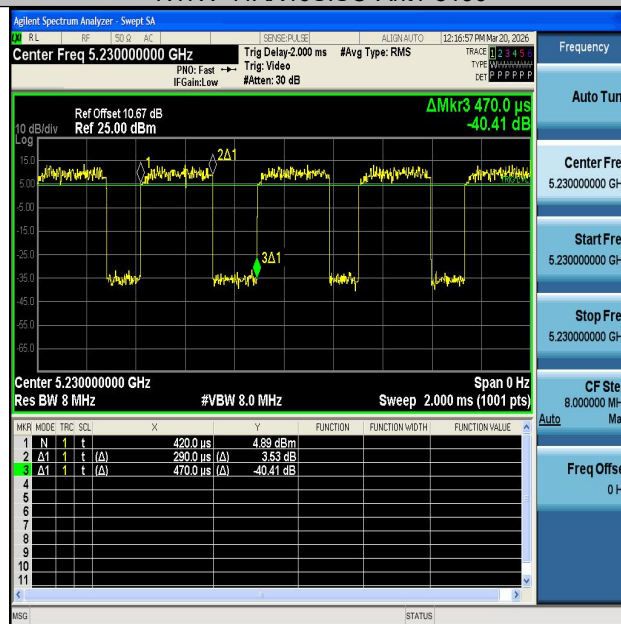
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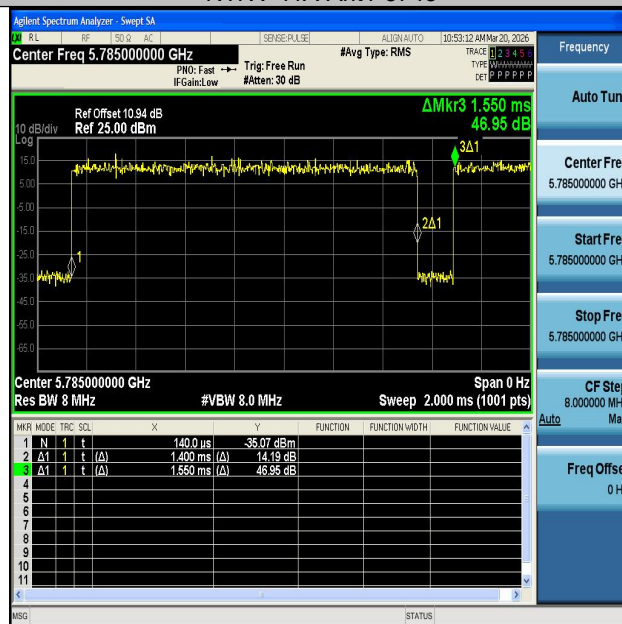
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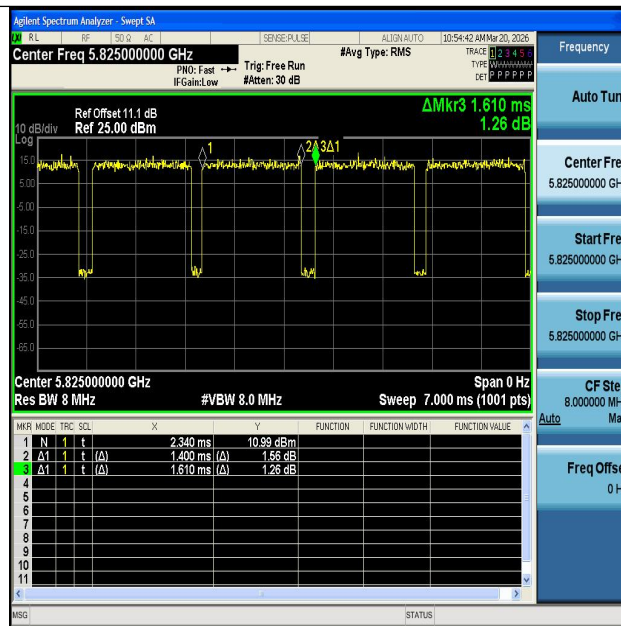
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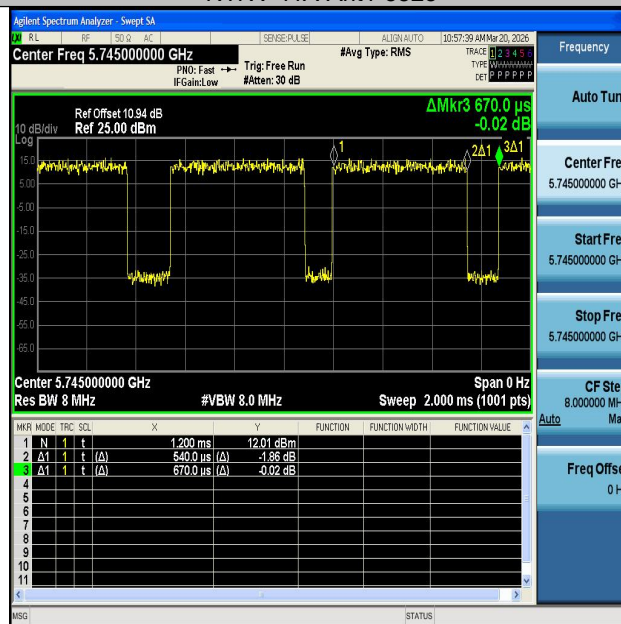
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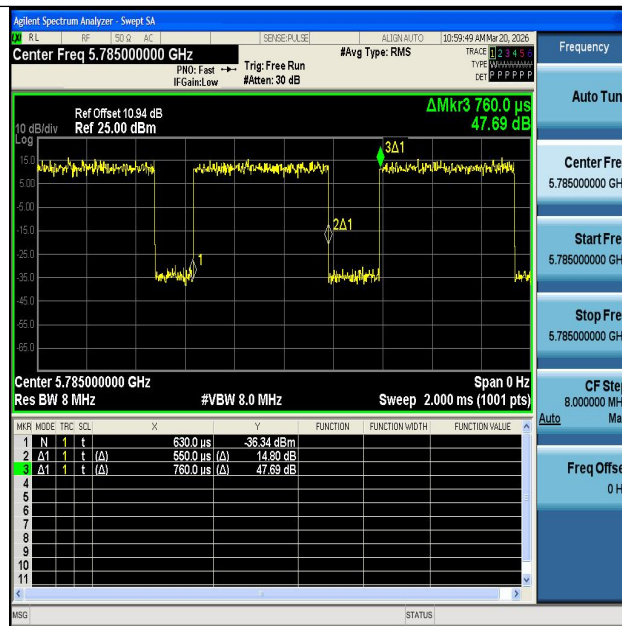
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NTVN-11N20SISO-Ant1-5745

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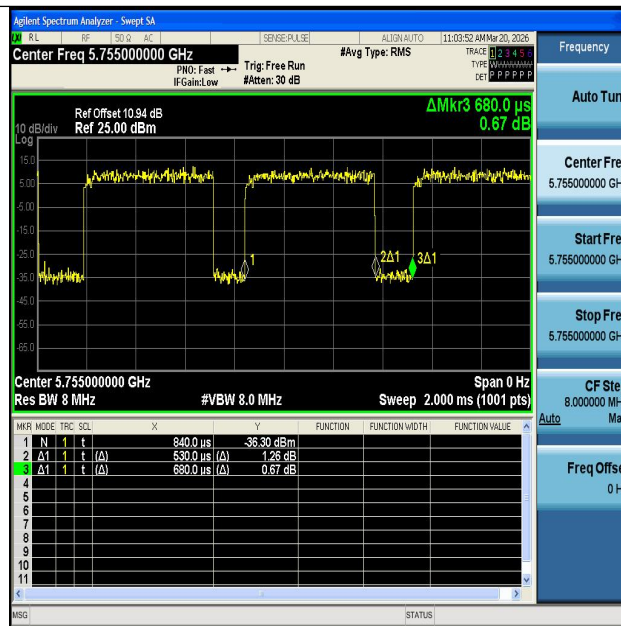


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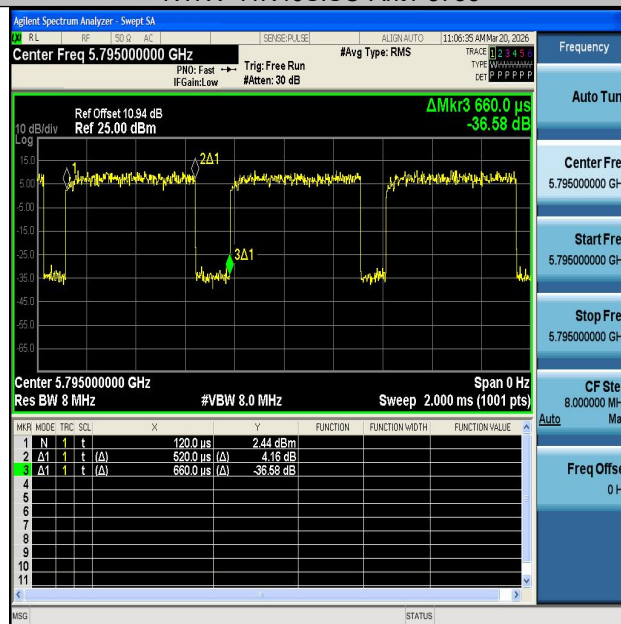


NTNV-11N20SISO-Ant1-5825

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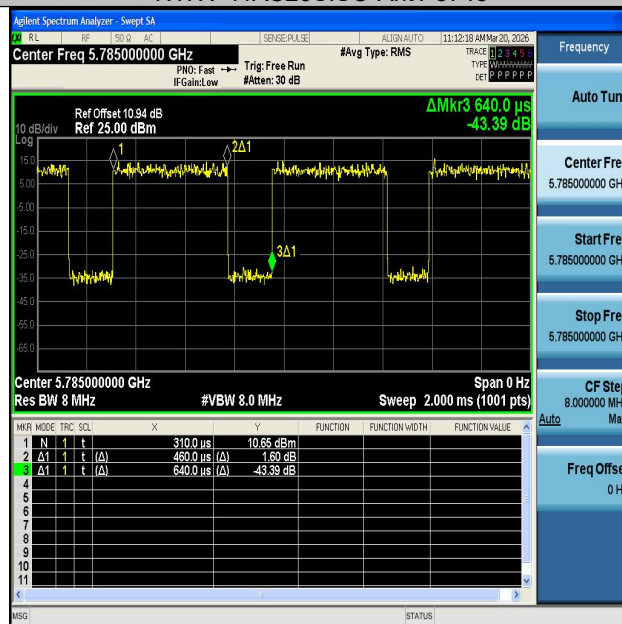
NTNV-11N40SISO-Ant1-5795

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Attestation of Global Compliance(Shenzhen)Co., Ltd
Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/



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Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>