



Japan Test Report

Applicant: Shenzhen Gkuvision Technology Co., Ltd.

Address: F13th, 1A Building, International Innovation Vally, Nanshan District, Shenzhen, Guangdong, 518055, China

Manufacturer: Shenzhen Gkuvision Technology Co., Ltd.

Address: F13th, 1A Building, International Innovation Vally, Nanshan District, Shenzhen, Guangdong, 518055, China

Product Name: Action Camera

Trade Mark: N/A

Model Number: S7 Pro, S7, S7 Pro Max, Mini 2, Mini 2 Pro, Mini 3, Mini 3 Pro, Air, Air Pro, Air 2, Air 2 Pro, Air 3, Air 3 Pro, X5 Pro, X5 Pro Max, X5 Ultra

Date of Receipt: Feb. 27, 2026

Test Date: Feb. 27, 2026 ~ May 28, 2026

Date of Report: May 28, 2026

Prepared By: Shenzhen DL Testing Technology Co., Ltd.

Address: 101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1 Baolong Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China

Applicable Standards: Article 2 paragraph 1 item(19)

Test Result: Pass

Report Number: DLE-260528009R

Prepared by(Engineer): Ken Tan

Reviewer(Supervisor): Jack Bu

Approved(Manager): Jade Yang



This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen DL Testing Technology Co., Ltd.



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**** Issued History ****

Revision	Description	Issued Date	Remark
Revision 1.0	Initial Test Report Release	May 28, 2026	



1. Summary of Test Results

Test procedures according to the technical standards:

Part	Rule Section	Description of Test	Result
4.1	3.2	Frequency Error	PASS
4.3	3.2	Occupied Bandwidth (99%)	PASS
4.4	3.2	Unwanted Emission Intensity	PASS
4.2	3.2	Antenna Power Error	PASS
4.5	3.2	Limitation of Collateral Emission of Receiver	PASS
4.6	3.2	Transmission Antenna Gain (EIRP Antenna Power)	N/A
4.7	3.2	Transmission Radiation Angle Width (3dB Beam width)	N/A
4.8	3.2	Radio Interference Prevention Capability	PASS
4.9	/	Carrier Sense Capability	PASS
5.0	/	Number of carrier	PASS

NOTE:

- (1) PASS: Test item meets the requirement.
- (2) Fail: Test item does not meet the requirement.
- (3) N/A: Test case does not apply to the test object.
- (4) The test result judgment is decided by the limit of test standard.
- (5) MIC Public Notice 88:2023, annex 1 and annex 43
- (6) MIC Ordinance Regulating Radio Equipment Section 4.17 of Article 49.20



1.1 Information of the Test Laboratory

Shenzhen DL Testing Technology Co., Ltd.

Add.: 101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1
Baolong Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China

1.2 Measurement Uncertainty

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

No.	Item	Uncertainty
1	RF Power, Conducted	$\pm 0.16\text{dB}$
2	Spurious Emissions ,Conducted	$\pm 0.21\text{dB}$
3	Temperature	$\pm 0.5^{\circ}\text{C}$
4	Humidity	$\pm 2.0\%$



2. General Information

2.1 General Description of EUT

Equipment	Action Camera
Model Name	S7 Pro
Series Model(s)	S7, S7 Pro Max, Mini 2, Mini 2 Pro, Mini 3, Mini 3 Pro, Air, Air Pro, Air 2, Air 2 Pro, Air 3, Air 3 Pro, X5 Pro, X5 Pro Max, X5 Ultra
Model Difference	All model's the function, software and electric circuit are the same, only with product model named different. Test sample model: S7 Pro.
Antenna Type	FPC Antenna
Antenna Gain	2.02dBi
Operation Frequency	WiFi 2.4G 802.11b/ g/ n(HT20)/ ax(HE20):2412~2472 MHz WiFi 2.4G 802.11n/(HT40)/ ax(HE40): 2422~2462 MHz
Number of Channels	802.11b/ g/ n(HT20)/ ax(HE20): 13CH 802.11n (HT40)/ ax(HE40): 9CH
Modulation Type	DSSS, OFDM, OFDMA
Power Source	DC5V/2000mA or 9V/1500mA from Type-C or DC3.8V from Battery.
Power Rating	DC5V/2000mA or 9V/1500mA from Type-C or DC3.8V from Battery.
Firmware Version	V1.0
Hardware Version	V1.0

Note:

- For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- Antenna gain Refer to the antenna specifications.
- The cable loss data is obtained from the supplier.
- The test results in the report only apply to the tested sample.

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	N/A	FPC Antenna	N/A	2.02	



2.2 Operation Frequency of Channel

Channel List for 802.11b/g/n(HT20)/ax(HE20)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	05	2432	09	2452	13	2472
02	2417	06	2437	10	2457		
03	2422	07	2442	11	2462		
04	2427	08	2447	12	2467		

Channel List for 802.11n(HT40)/ax(HE40)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
03	2422	06	2437	09	2452		
04	2427	07	2442	10	2457		
05	2432	08	2447	11	2462		

2.3 Description of Test Modes

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	B Mode(802.11b) (CH01 CH07 CH13)
Mode 2	G Mode(802.11g) (CH01 CH07 CH13)
Mode 3	N20 Mode(802.11n) (CH01 CH07 CH13)
Mode 4	N40 Mode(802.11n) (CH03 CH07 CH11)
Mode 5	AX20 Mode(802.11ax) (CH01 CH07 CH13)
Mode 6	AX40 Mode(802.11ax) (CH03 CH07 CH11)



2.4 Test Conditions

The WIFI module was tested while in a continuous transmitter/receiver mode. The EUT was tuned to a low, middle, and high channel for all tests. For all test case pre/scans were completed in all Modes to determine worst case levels.

Power Supply Voltage Fluctuation Test

Voltage mode	Input Voltage	Radio Unit Voltage
Type-C Input	DC 4.5V	3.31V
	DC 5.0V	3.30V
	DC 5.5V	3.30V
Battery	DC 3.42V	3.31V
	DC 3.8V	3.30V
	DC 4.18V	3.30V

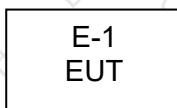
Note:

1. The radio unit Voltage with the module regulator IC regulator.
2. The radio unit less than 1%, so the test only rated voltage (Normal voltage) with the battery.

During the input supply voltage to the EUT from the external power source is varied by +/- 10%, if output voltage had been confirmed that the fluctuation of power supply to the RF circuit of EUT (excluding power source) is equal to or less than +/-1%. Exempt extremely high and low supply voltage condition test, EUT only operated in normal voltage to test all regulations.

2.5 Block Diagram Showing the Configuration of System Tested

Mode 1:





2.6 Description of Support Units (Conducted Mode)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Trade Mark	Model/Type No.	Specification	Note
E-1	Action Camera	N/A	S7 Pro	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.



2.7 Equipments List for All Test Items

Item	Equipment	Manufacturer	Calibration Institution	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	Agilent	Guangzhou LiSai Metrology & Test Co., Ltd.	E4408B	MY50140780	Oct. 25, 2025	Oct. 24, 2026
2	Test Receiver (9kHz-7GHz)	R&S	Guangzhou LiSai Metrology & Test Co., Ltd.	ESRP7	101393	Oct. 25, 2025	Oct. 24, 2026
3	Bilog Antenna (30MHz-1GHz)	R&S	Guangzhou LiSai Metrology & Test Co., Ltd.	VULB9162	00306	Oct. 25, 2025	Oct. 24, 2026
4	Horn Antenna (1GHz-18GHz)	Schwarzbeck	Guangzhou LiSai Metrology & Test Co., Ltd.	BBHA9120D	02139	Oct. 25, 2025	Oct. 24, 2026
5	Horn Antenna (18GHz-40GHz)	A.H. Systems	Guangzhou LiSai Metrology & Test Co., Ltd.	SAS-574	588	Oct. 25, 2025	Oct. 24, 2026
6	Amplifier (9KHz-6GHz)	Schwarzbeck	Guangzhou LiSai Metrology & Test Co., Ltd.	BBV9743B	00153	Oct. 25, 2025	Oct. 24, 2026
7	Amplifier (1GHz-18GHz)	EMEC	Guangzhou LiSai Metrology & Test Co., Ltd.	EM01G8GA	00270	Oct. 25, 2025	Oct. 24, 2026
8	Amplifier (18GHz-40GHz)	Quanjuda	Guangzhou LiSai Metrology & Test Co., Ltd.	DLE-161	97	Oct. 25, 2025	Oct. 24, 2026
9	Loop Antenna (9KHz-30MHz)	Schwarzbeck	Guangzhou LiSai Metrology & Test Co., Ltd.	FMZB1519B	00014	Oct. 25, 2025	Oct. 24, 2026
10	RF cables1 (9kHz-1GHz)	ChengYu	Guangzhou LiSai Metrology & Test Co., Ltd.	966	004	Oct. 25, 2025	Oct. 24, 2026
11	RF cables2 (1GHz-40GHz)	ChengYu	Guangzhou LiSai Metrology & Test Co., Ltd.	966	003	Oct. 25, 2025	Oct. 24, 2026
12	Antenna connector	Florida RF Labs	Guangzhou LiSai Metrology & Test Co., Ltd.	N/A	RF 01#	Oct. 25, 2025	Oct. 24, 2026
13	Power probe	KEYSIGHT	Guangzhou LiSai Metrology & Test Co., Ltd.	U2021XA	MY55210018	Oct. 25, 2025	Oct. 24, 2026
14	Signal Analyzer 9kHz-26.5GHz	Agilent	Guangzhou LiSai Metrology & Test Co., Ltd.	N9020A	MY55370280	Oct. 25, 2025	Oct. 24, 2026
15	Test Receiver 20kHz-40GHz	R&S	Guangzhou LiSai Metrology & Test Co., Ltd.	ESU 40	100376	Oct. 25, 2025	Oct. 24, 2026
16	D.C. Power Supply	LongWei	Guangzhou LiSai Metrology & Test Co., Ltd.	PS-305D	010964729	Oct. 25, 2025	Oct. 24, 2026



Other

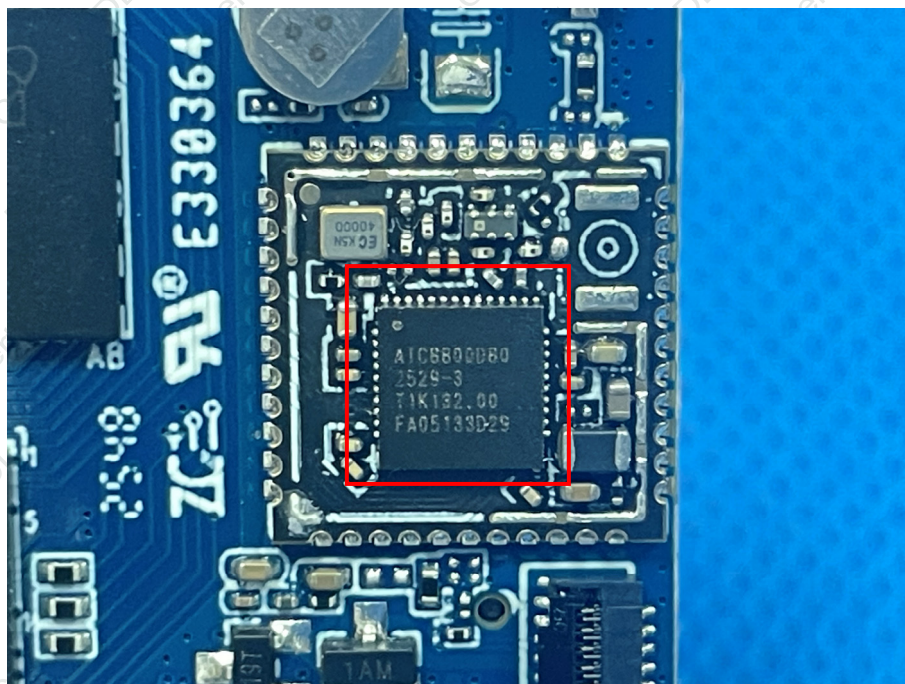
Item	Name	Manufacturer	Model	Software version
1	EMC Conduction Test System	FALA	EZ_EMG	EMC-CON 3A1.1
2	EMC radiation test system	FALA	EZ_EMG	FA-03A2
3	RF test system	MAIWEI	MTS8310	2.0.0.0
4	RF communication test system	MAIWEI	MTS8200	2.0.0.0

Note: The calibration agency listed on the table corresponds to item ii c) of Article 24-2 paragraph 4.



3. RF Shielding Method

We apply the product for Japan RF certification. Number of terminals is 48, Terminal pitch is 1 mm. It is not easily removed. Please refer to following for photo for details. Red circle part of the RF module soldered on the PCB.





4. Test Result for WIFI

4.1 Frequency Error

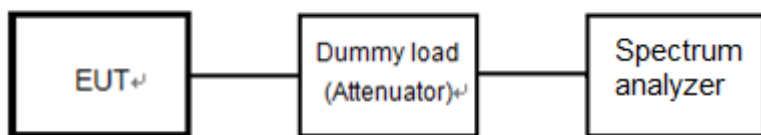
4.1.1 Limit

Item	Limits
Frequency Error	+/-50ppm

4.1.2 Test Procedures

1. The EUT was placed on a table which is 0.8m above ground plane.
2. The EUT was directly connected to the spectrum analyzer.

4.1.3 Test Setup Layout



4.1.4 EUT Operation during Test

The EUT was placed on the test table and programmed in un-modulation function.

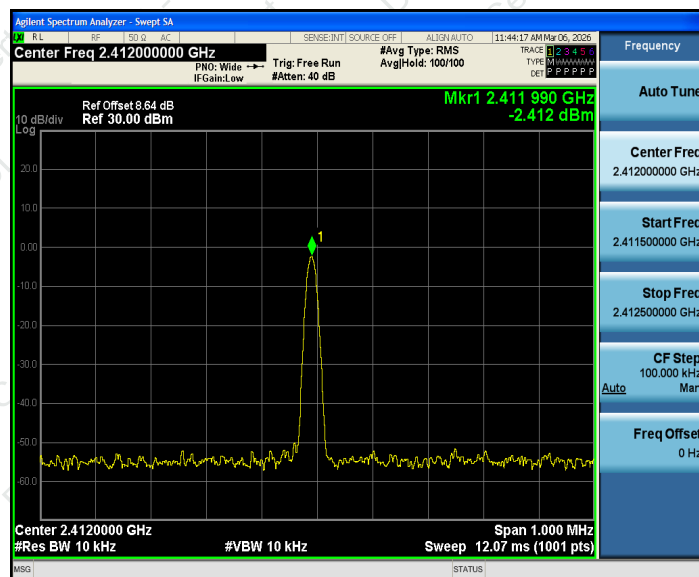
4.1.5 Test Result

EUT:	Action Camera	Test Date:	Mar. 06, 2026
Temperature:	25°C	Tested by:	Len Liao
Humidity:	55 % RH	Test Voltage	Normal Voltage
Operation Mode:	Normal Voltage- Carrier Tx Mode		

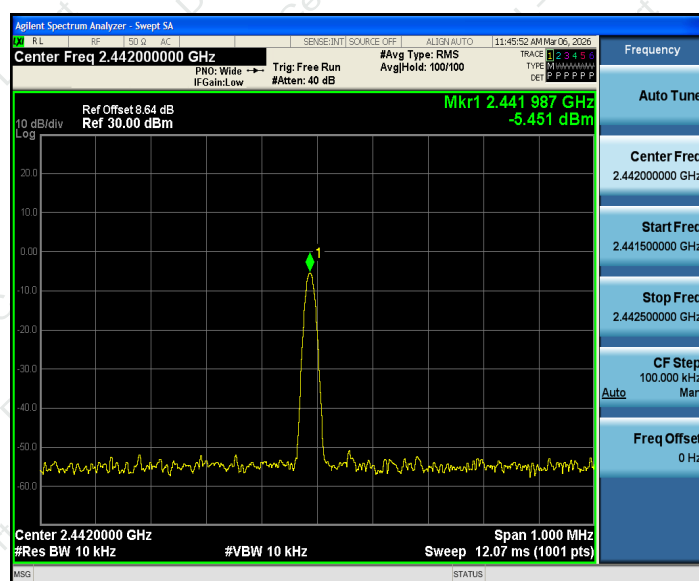
Frequency (MHz)	Measured	Tolerance	Result	Limit
	MHz	MHz	ppm	ppm
CH1:2412MHz	2411.990	-0.010	-4.14594	+/-50
CH7:2442MHz	2441.987	-0.013	-5.32351	+/-50
CH13:2472MHz	2471.987	-0.013	-5.25890	+/-50
CH3:2422MHz	2421.984	-0.016	-6.60611	+/-50
CH11:2462MHz	2461.983	-0.017	-6.90496	+/-50
Conclusion : PASS				



CH1:2412MHz

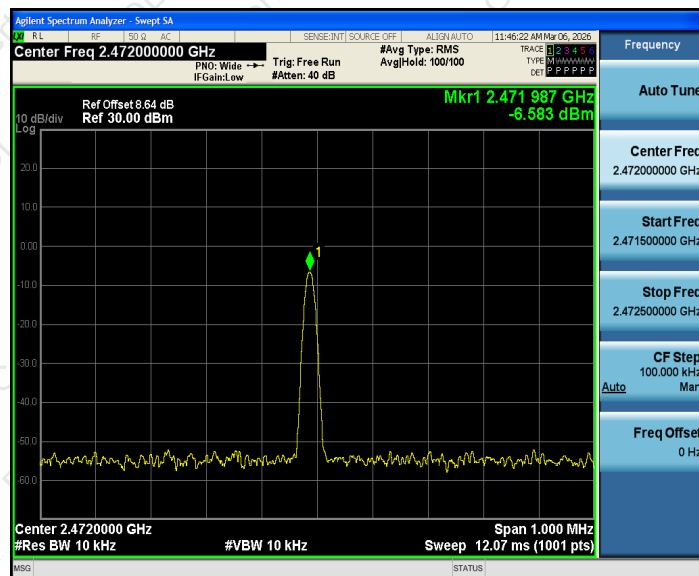


CH7:2442MHz

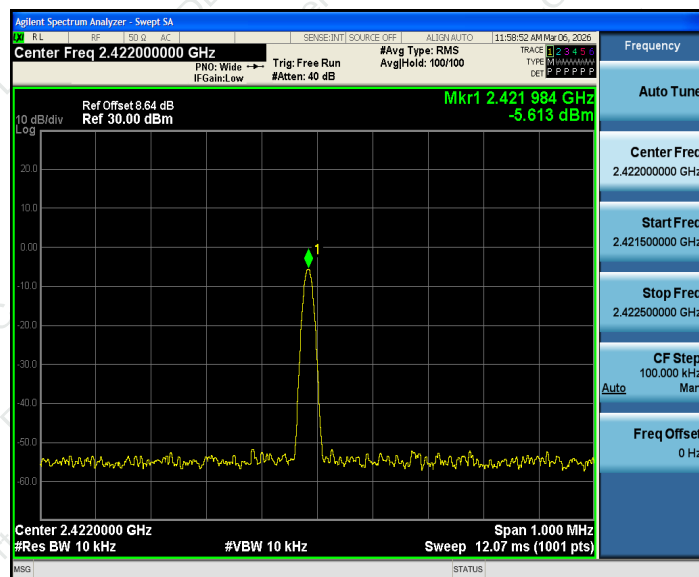




CH13:2472MHz

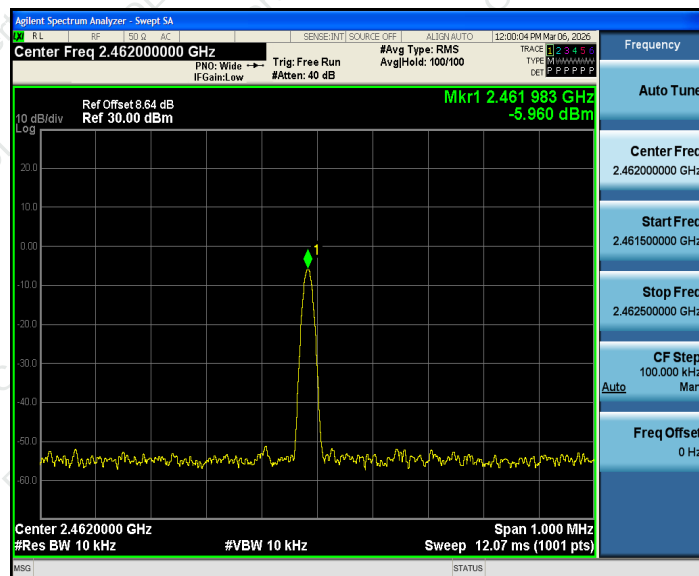


CH3:2422MHz





CH11:2462MHz





4.2 Antenna Power

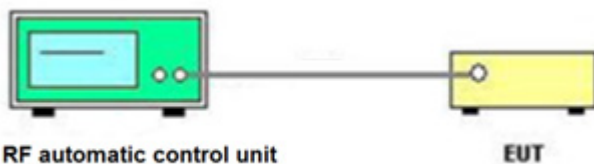
4.2.1 Limit

Item	Limits
Antenna Power Density	$\leq 3\text{mW/MHz}$ (FH form 2427 - 2470.75 MHz) $\leq 10\text{mW/MHz}$ (OFDM,DS from 2400~2483.5MHz) $\leq 10\text{mW}$ (Other from 2400~2483.5MHz) $\leq 5\text{mW}$ (OFDM,DS from 2400~2483.5MHz, when bandwidth 40MHz)
Antenna Power Error	+20% (Base on manufacturer declare antenna power density)
E.I.R.P	$\leq 12.14\text{dBm/MHz}$ (OFDM,DS form 2400-2483.5MHz) $\leq 9.13\text{dBm/MHz}$ (OFDM,DS from 2400~2483.5MHz, when bandwidth 40MHz)

4.2.2 Measuring Instruments and Setting

1. The EUT was placed on a table which is 0.8m above ground plane.
2. The EUT was directly connected to the RF automatic control unit.

4.2.3 Test Setup Layout



4.2.4 Test Deviation

- (1) Configure EUT and assistant system according clause 2.5 and 2.6.
- (2) Set EUT work in test mode as described in clause 2.3.
- (3) Connected the EUT's antenna port to the RF automatic control unit.
- (4) Record the test data.



4.2.5 Test Result

EUT:	Action Camera	Test Date:	Mar. 06, 2026
Temperature:	25°C	Tested by:	Len Liao
Humidity:	55 % RH	Test Voltage	Normal Voltage
Operation Mode:	Normal Voltage-B/G/N20/N40/AX20/AX40 mode		

Mode	Test Frequency	Measured Power (dBm/MHz)	Antenna Power (mW/MHz)	Rated power (mW/MHz)	Antenna Power Error (%)
802.11b	2412MHz	6.57	4.5394	8	-43.26
802.11b	2442MHz	6.19	4.1591	8	-48.01
802.11b	2472MHz	6.75	4.7315	8	-40.86
802.11g	2412MHz	3.24	2.1086	6	-64.86
802.11g	2442MHz	4.00	2.5119	6	-58.14
802.11g	2472MHz	2.53	1.7906	5	-64.19
802.11n(HT20)	2412MHz	1.03	1.2677	4	-68.31
802.11n(HT20)	2442MHz	1.47	1.4028	4	-64.93
802.11n(HT20)	2472MHz	0.24	1.0568	4	-73.58
802.11n(HT40)	2422MHz	3.18	2.0797	4	-48.01
802.11n(HT40)	2442MHz	3.72	2.3550	4	-41.12
802.11n(HT40)	2462MHz	3.09	2.0370	4	-49.07
802.11ax(HE20)	2412MHz	0.35	1.0839	3	-63.87
802.11ax(HE20)	2442MHz	0.00	1.0000	3	-66.67
802.11ax(HE20)	2472MHz	-0.40	0.9120	3	-69.60
802.11ax(HE40)	2422MHz	2.81	1.9099	4	-52.25
802.11ax(HE40)	2442MHz	2.83	1.9187	4	-52.03
802.11ax(HE40)	2462MHz	1.21	1.3213	4	-66.97

Limit :

1. +20% (Base on manufacturer declare antenna power density).
2. Antenna power limit is (HT20/HE20)10mW/MHz or less, (HT40/HE40) 5mW/MHz or less, Other is 10mW or less.



Mode	Test Frequency	Antenna Power (mW/MHz)	Antenna Power (dBm/MHz)	Antenna Gain (dBi)	EIRP (dBm/MHz)
802.11b	2412MHz	4.5394	6.57	2.02	8.59
802.11b	2442MHz	4.1591	6.19	2.02	8.21
802.11b	2472MHz	4.7315	6.75	2.02	8.77
802.11g	2412MHz	2.1086	3.24	2.02	5.26
802.11g	2442MHz	2.5119	4.00	2.02	6.02
802.11g	2472MHz	1.7906	2.53	2.02	4.55
802.11n(HT20)	2412MHz	1.2677	1.03	2.02	3.05
802.11n(HT20)	2442MHz	1.4028	1.47	2.02	3.49
802.11n(HT20)	2472MHz	1.0568	0.24	2.02	2.26
802.11n(HT40)	2422MHz	2.0797	3.18	2.02	5.20
802.11n(HT40)	2442MHz	2.3550	3.72	2.02	5.74
802.11n(HT40)	2462MHz	2.0370	3.09	2.02	5.11
802.11ax(HE20)	2412MHz	1.0839	0.35	2.02	2.37
802.11ax(HE20)	2442MHz	1.0000	0.00	2.02	2.02
802.11ax(HE20)	2472MHz	0.9120	-0.40	2.02	1.62
802.11ax(HE40)	2422MHz	1.9099	2.81	2.02	4.83
802.11ax(HE40)	2442MHz	1.9187	2.83	2.02	4.85
802.11ax(HE40)	2462MHz	1.3213	1.21	2.02	3.23
EIRP(dBm/MHz)= Antenna Power (dBm/MHz)+ Antenna Gain(dBi) Limit : ≤12.14dBm/MHz(OFDM,DS form 2400-2483.5MHz) ≅9.13dBm/MHz (OFDM,DS from2400~2483.5MHz, when bandwidth 40MHz)					



4.3 Occupied Bandwidth

4.3.1 Limit

Item	Limits
Occupied Bandwidth:	FH 83.5MHz, OFDM,DS $\leq$ 26MHz; 802.11n(HT40): 26-40MHz; Others $\leq$ 26MHz

4.3.2 Measuring Instruments and Setting

Spectrum Parameter	Setting
Attenuation	Auto
RB / VB	300kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

4.3.3 Test Procedures

- Setting of SA is following as: RB: 300kHz / VB: 300kHz / SPAN: 40MHz / AT: 40dB Ref: 30dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
- EUT have transmitted the maximum modulation signal and fixed channelize (For DSSS or OFDM Device) or continuous maximum power of hopping mode (For FHSS Device). SA set to 99% of occupied bandwidth to measure occupied bandwidth. The limit is less than 26MHz (For DSSS or OFDM Device) or 83.5MHz (For FHSS Device). The limit of 802.11n (HT40) is 26MHz to 38MHz

4.3.4 Test Setup Layout



4.3.5 Test Deviation

There is no deviation with the original standard.

4.3.6 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.



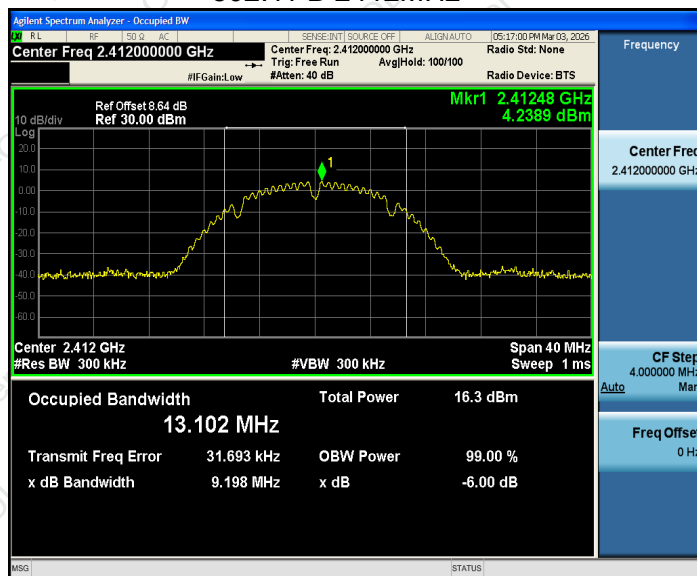
4.3.7 Test Result

EUT:	Action Camera	Test Date:	Mar. 12, 2026
Temperature:	25°C	Tested by:	Len Liao
Humidity:	55 % RH	Test Voltage	Normal Voltage
Operation Mode:	Normal Voltage-B/G/N20/N40/AX20/AX40 mode		

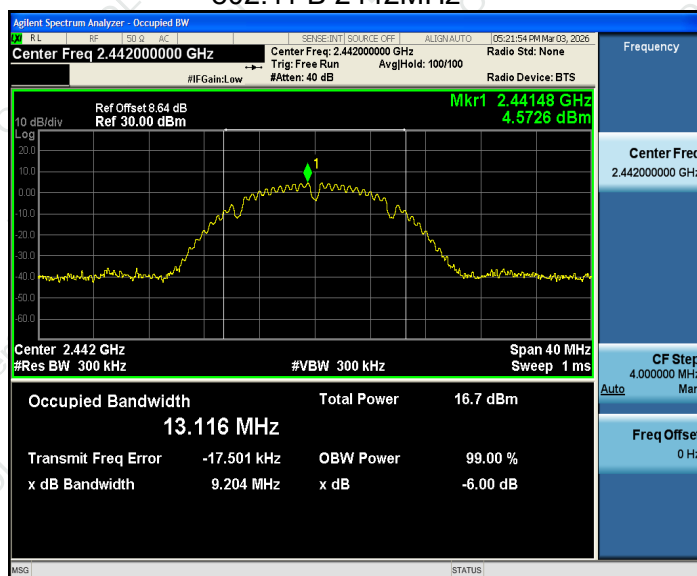
Mode	Test Frequency (MHz)	Occupied Bandwidth (MHz)
802.11b	2412	13.102
802.11b	2442	13.116
802.11b	2472	13.106
802.11g	2412	16.800
802.11g	2442	16.743
802.11g	2472	16.767
802.11n(HT20)	2412	17.877
802.11n(HT20)	2442	18.014
802.11n(HT20)	2472	17.890
802.11n(HT40)	2422	36.224
802.11n(HT40)	2442	36.150
802.11n(HT40)	2462	36.132
802.11ax(HE20)	2412	18.991
802.11ax(HE20)	2442	18.963
802.11ax(HE20)	2472	19.055
802.11ax(HE40)	2422	37.823
802.11ax(HE40)	2442	37.833
802.11ax(HE40)	2462	37.654
Limits: FH 83.5MHz, OFDM,DS $\leq$ 26MHz; 802.11n(HT40): 26-40MHz; Others $\leq$ 26MHz		



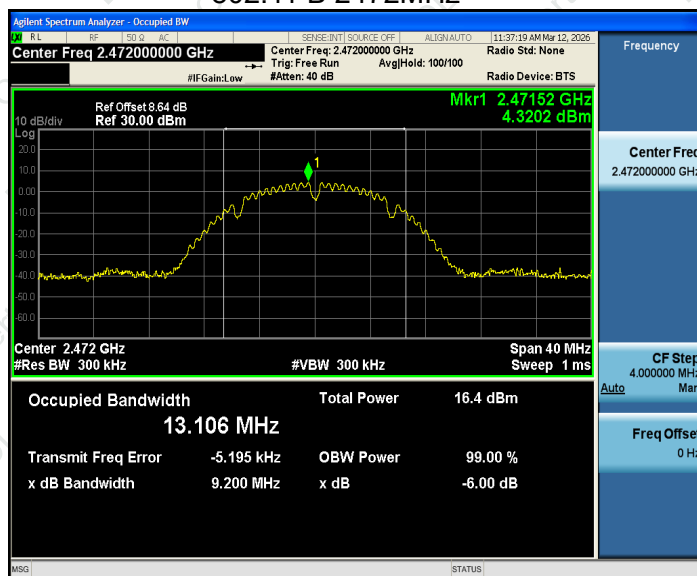
802.11 B 2412MHz



802.11 B 2442MHz

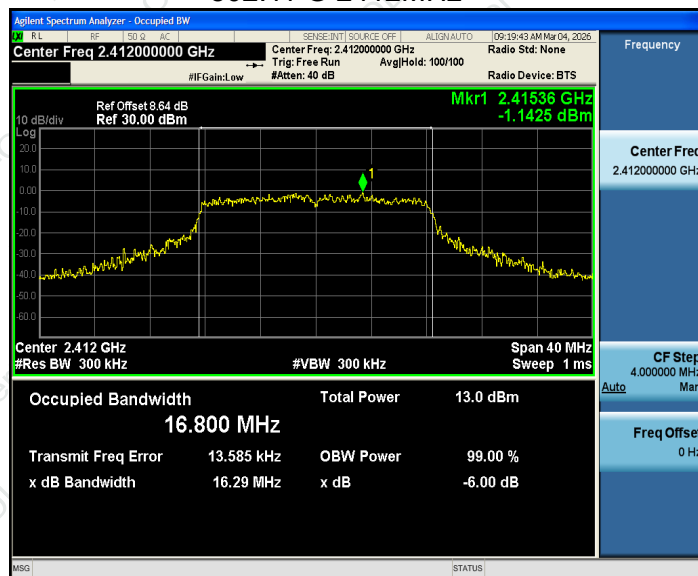


802.11 B 2472MHz





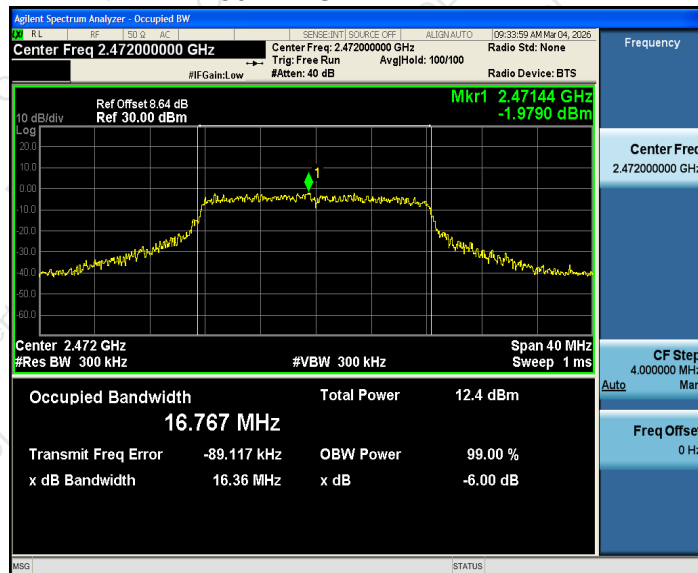
802.11 G 2412MHz



802.11 G 2442MHz

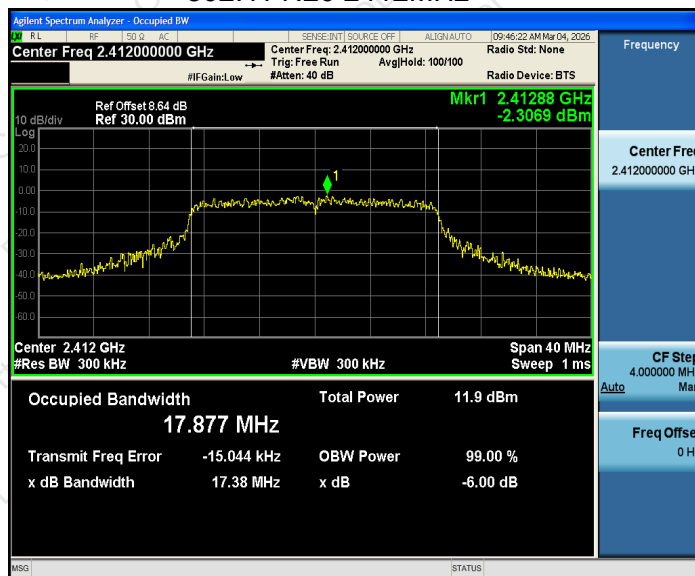


802.11 G 2472MHz





802.11 N20 2412MHz



802.11 N20 2442MHz

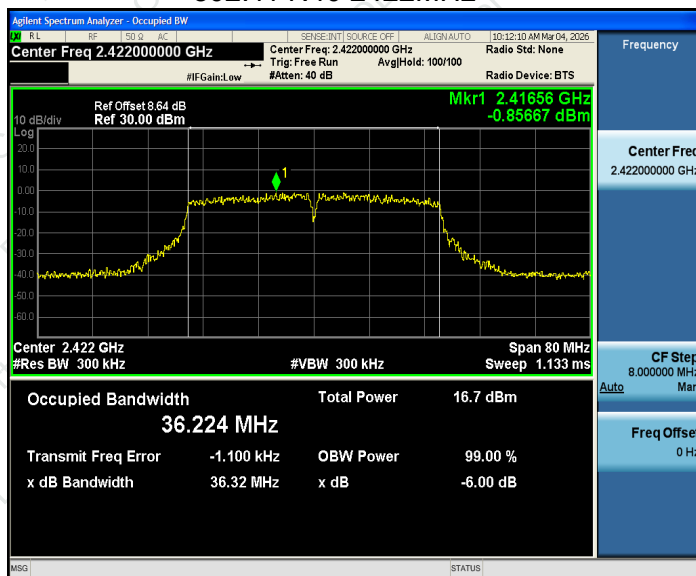


802.11 N20 2472MHz

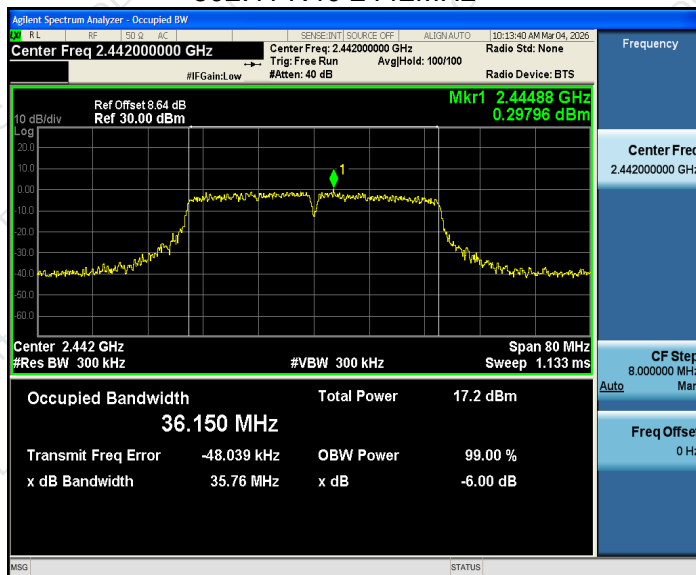




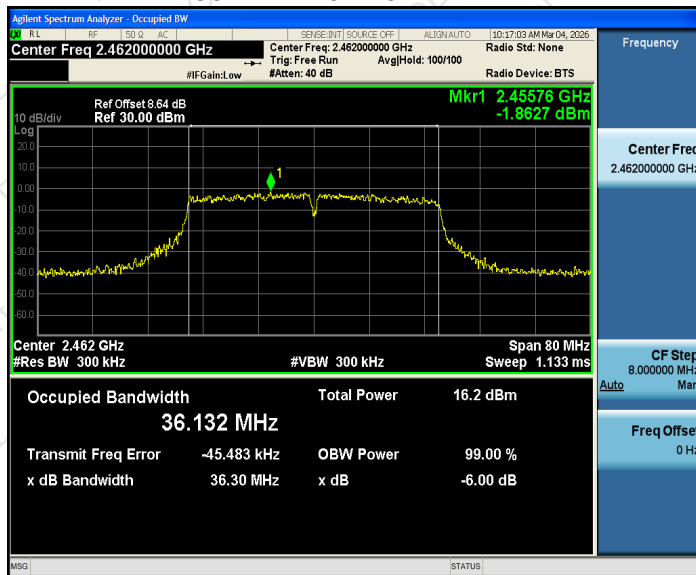
802.11 N40 2422MHz



802.11 N40 2442MHz

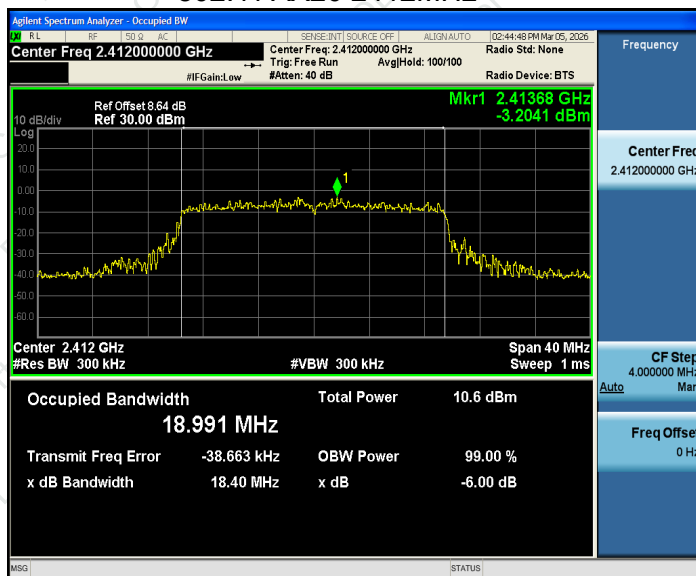


802.11 N40 2462MHz

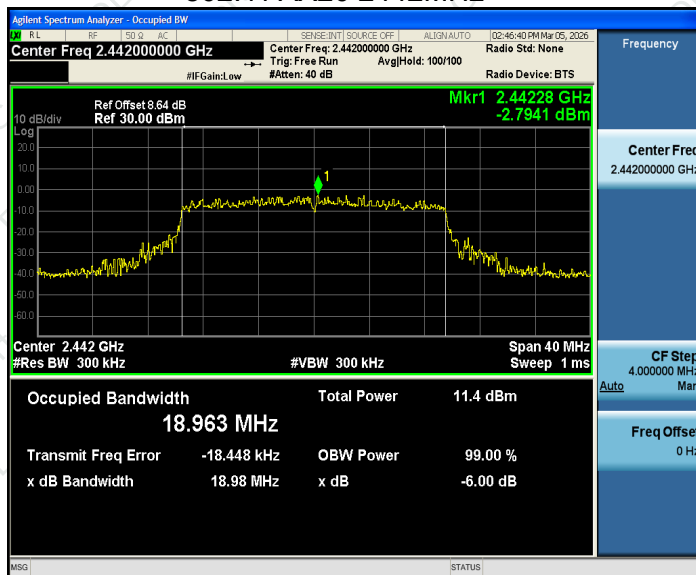




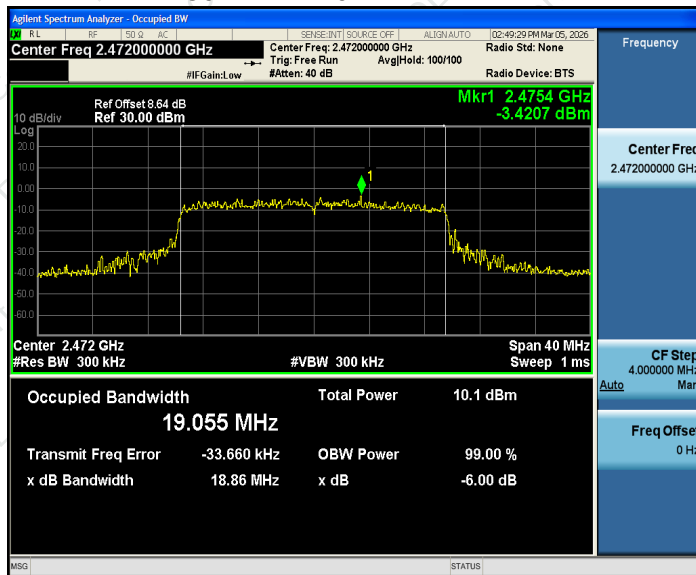
802.11 AX20 2412MHz



802.11 AX20 2442MHz

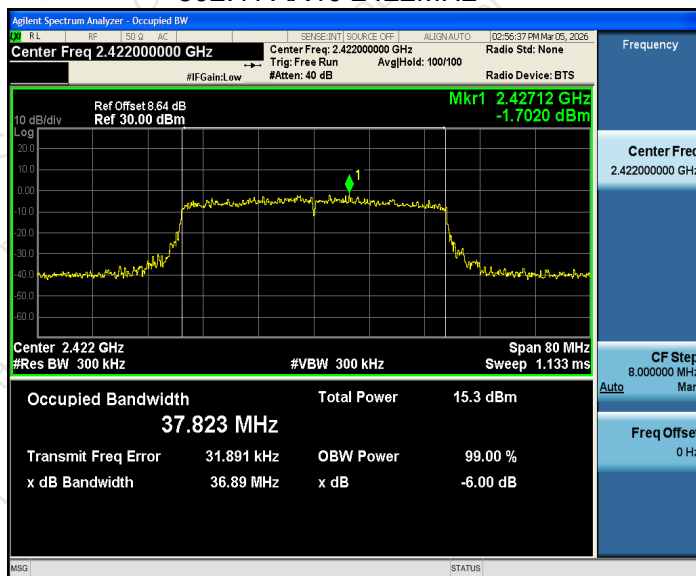


802.11 AX20 2472MHz

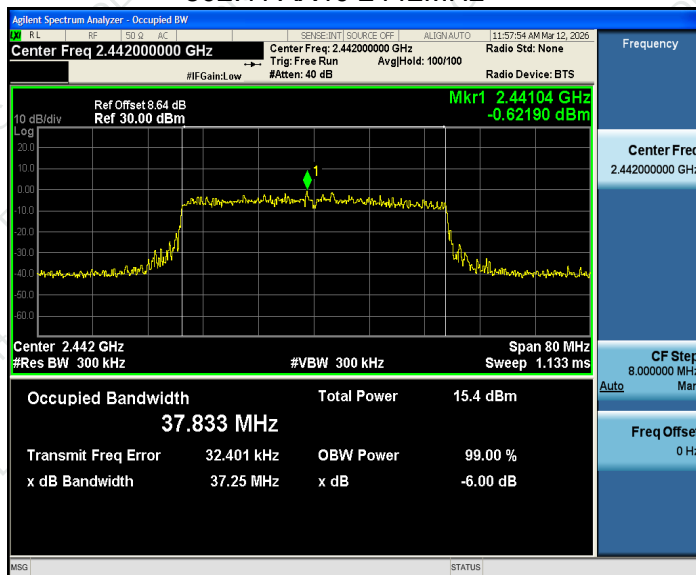




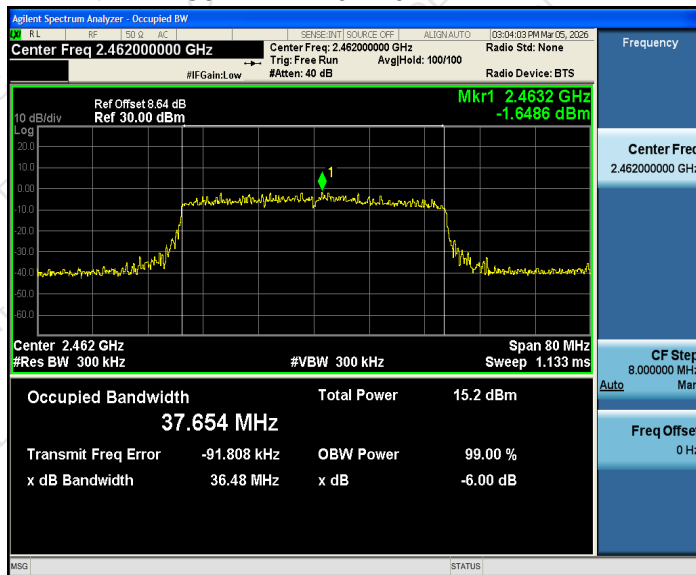
802.11 AX40 2422MHz



802.11 AX40 2442MHz



802.11 AX40 2462MHz





4.4 Unwanted Emission Intensity Measurement

4.4.1 Limit

Item	Limits
TX Spurious Emission	$\leq 2.5 \mu\text{W/MHz}$ ($30\text{MHz} < f \leq 2387\text{MHz}$)
	$\leq 25 \mu\text{W/MHz}$ ($2387\text{MHz} < f \leq 2400\text{MHz}$)
	$\leq 25 \mu\text{W/MHz}$ ($2483.5\text{MHz} \leq f < 2496.5\text{MHz}$)
	$\leq 2.5 \mu\text{W/MHz}$ ($2496.5\text{MHz} \leq f < 12500\text{MHz}$)

4.4.2 Measuring Instruments and Setting

Please refer to section 5 in this report. The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RB / VB	1 MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

4.4.3 Test Procedures

1. EUT have transmitted the maximum modulation signal and fixed channelize.
2. Setting of SA is following as: RB:1MHz / VB:1MHz / AT: Auto Ref: Auto / Sweep time: Auto
Sweep Mode: Continuous sweep / Detect mode: Positive peak
Trace mode: Max hold
3. Setting of SA is following as 30MHz and stop frequency 2387MHz Then to mark peak reading value + cable loss shall be less than 2.5 μ W.
4. SA adjusted to start frequency 2387MHz and stop frequency 2400MHz. Then to mark peak reading value + cable loss shall be less than 25 μ W.
5. SA adjusted to start frequency 2483.5MHz and stop frequency 2496.5MHz Then to mark peak reading value + cable loss shall be less than 25 μ W
6. SA adjusted to start frequency 2496.5MHz and stop frequency 12500MHz Then to mark peak reading value + cable loss shall be less than 2.5 μ W
7. Measure side band spurious as follows: For 2.4GHz band: 2374MHz~2400MHz and 2483.5MHz~2509.5MHz RBW = VBW = 30kHz, Result_Value = Measured_Value + 15.2 [dBm]
8. If the Result_Value is over the requirement, take total sum of 1MHz band centered at the spur frequency like ACLP measurement as Result_Value.



4.4.4 Test Setup Layout



4.4.5 Test Deviation

There is no deviation with the original standard.



4.4.6 Test Result

EUT:	Action Camera	Test Date:	Mar. 06, 2026
Temperature:	25°C	Tested by:	Len Liao
Humidity:	55 % RH	Test Voltage	Normal Voltage
Operation Mode:	Normal Voltage-B/G/N20/N40/AX20/AX40 mode		

Test Mode	Test channel	StartFre [MHz]	StopFre [MHz]	Mkr Fre (MHz)	Max.Level [dBm]	Max.Level [μW/MHz]	Limit [μW/MHz]	Verdict
802.11b	2412	30	2387	2373.45	-47.79	0.0166	<2.5	PASS
802.11b	2412	2387	2400	2397.26	-37.47	0.1791	<25	PASS
802.11b	2412	2483.5	2496.5	2494.45	-40.98	0.0798	<25	PASS
802.11b	2412	2496.5	13000	9406.05	-48.85	0.0130	<2.5	PASS
802.11b	2442	30	2387	1918.55	-49.43	0.0114	<2.5	PASS
802.11b	2442	2387	2400	2391.50	-41.60	0.0692	<25	PASS
802.11b	2442	2483.5	2496.5	2485.57	-40.30	0.0933	<25	PASS
802.11b	2442	2496.5	13000	4883.54	-46.35	0.0232	<2.5	PASS
802.11b	2472	30	2387	2341.63	-49.82	0.0104	<2.5	PASS
802.11b	2472	2387	2400	2391.39	-41.73	0.0671	<25	PASS
802.11b	2472	2483.5	2496.5	2485.30	-35.33	0.2931	<25	PASS
802.11b	2472	2496.5	13000	4943.94	-45.71	0.0269	<2.5	PASS
802.11g	2412	30	2387	2263.26	-49.86	0.0103	<2.5	PASS
802.11g	2412	2387	2400	2398.85	-19.20	12.0226	<25	PASS
802.11g	2412	2483.5	2496.5	2490.04	-41.44	0.0718	<25	PASS
802.11g	2412	2496.5	13000	5232.80	-49.07	0.0124	<2.5	PASS
802.11g	2442	30	2387	2344.87	-50.40	0.0091	<2.5	PASS
802.11g	2442	2387	2400	2396.00	-41.69	0.0678	<25	PASS
802.11g	2442	2483.5	2496.5	2495.97	-41.78	0.0664	<25	PASS
802.11g	2442	2496.5	13000	2520.66	-47.32	0.0185	<2.5	PASS
802.11g	2472	30	2387	2252.36	-48.69	0.0135	<2.5	PASS
802.11g	2472	2387	2400	2393.54	-42.38	0.0578	<25	PASS
802.11g	2472	2483.5	2496.5	2483.55	-19.00	12.5893	<25	PASS
802.11g	2472	2496.5	13000	12857.67	-47.96	0.0160	<2.5	PASS
802.11n(HT20)	2412	30	2387	2254.42	-48.91	0.0129	<2.5	PASS
802.11n(HT20)	2412	2387	2400	2399.74	-19.01	12.5603	<25	PASS
802.11n(HT20)	2412	2483.5	2496.5	2494.60	-41.74	0.0670	<25	PASS
802.11n(HT20)	2412	2496.5	13000	12854.52	-48.51	0.0141	<2.5	PASS



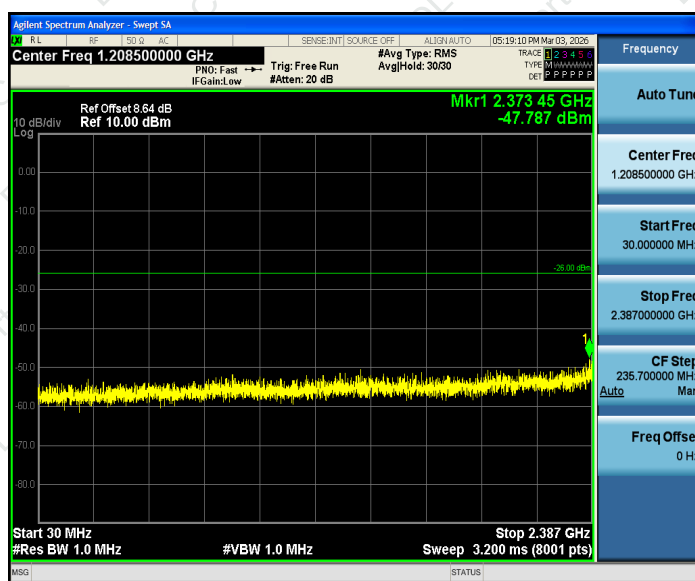
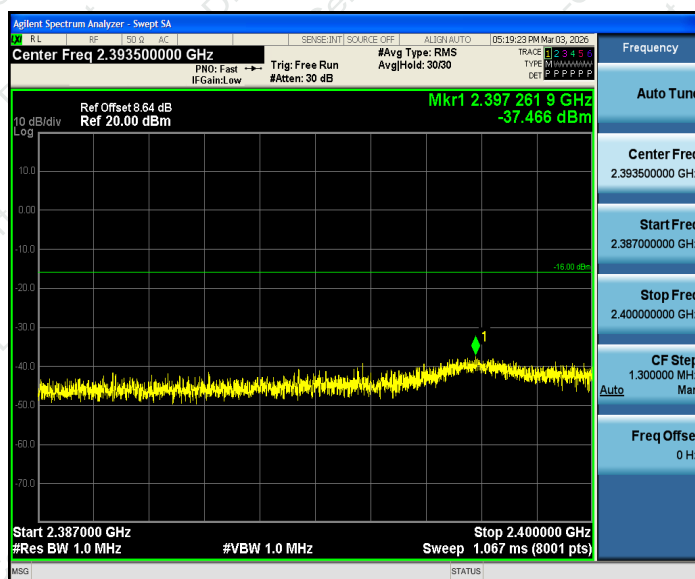
802.11n(HT20)	2442	30	2387	2335.74	-49.93	0.0102	<2.5	PASS
802.11n(HT20)	2442	2387	2400	2395.88	-42.03	0.0627	<25	PASS
802.11n(HT20)	2442	2483.5	2496.5	2484.56	-41.34	0.0735	<25	PASS
802.11n(HT20)	2442	2496.5	13000	12948.53	-48.25	0.0150	<2.5	PASS
802.11n(HT20)	2472	30	2387	2164.85	-50.23	0.0095	<2.5	PASS
802.11n(HT20)	2472	2387	2400	2389.36	-42.59	0.0551	<25	PASS
802.11n(HT20)	2472	2483.5	2496.5	2484.27	-19.09	12.3310	<25	PASS
802.11n(HT20)	2472	2496.5	13000	12629.21	-48.51	0.0141	<2.5	PASS
802.11n(HT40)	2422	30	2387	2384.35	-39.93	0.1016	<2.5	PASS
802.11n(HT40)	2422	2387	2400	2399.96	-19.75	10.5925	<25	PASS
802.11n(HT40)	2422	2483.5	2496.5	2493.12	-41.80	0.0661	<25	PASS
802.11n(HT40)	2422	2496.5	13000	6438.14	-48.15	0.0153	<2.5	PASS
802.11n(HT40)	2442	30	2387	2386.71	-47.56	0.0175	<2.5	PASS
802.11n(HT40)	2442	2387	2400	2398.85	-35.74	0.2667	<25	PASS
802.11n(HT40)	2442	2483.5	2496.5	2485.32	-37.61	0.1734	<25	PASS
802.11n(HT40)	2442	2496.5	13000	12938.03	-48.86	0.0130	<2.5	PASS
802.11n(HT40)	2462	30	2387	2359.01	-49.72	0.0107	<2.5	PASS
802.11n(HT40)	2462	2387	2400	2396.41	-41.85	0.0653	<25	PASS
802.11n(HT40)	2462	2483.5	2496.5	2483.73	-19.12	12.2462	<25	PASS
802.11n(HT40)	2462	2496.5	13000	2498.08	-40.50	0.0891	<2.5	PASS
802.11ax(HE20)	2412	30	2387	2387.00	-45.39	0.0289	<2.5	PASS
802.11ax(HE20)	2412	2387	2400	2399.77	-21.05	7.8524	<25	PASS
802.11ax(HE20)	2412	2483.5	2496.5	2490.86	-41.16	0.0766	<25	PASS
802.11ax(HE20)	2412	2496.5	13000	12901.26	-48.09	0.0155	<2.5	PASS
802.11ax(HE20)	2442	30	2387	2159.84	-49.49	0.0112	<2.5	PASS
802.11ax(HE20)	2442	2387	2400	2388.77	-41.15	0.0767	<25	PASS
802.11ax(HE20)	2442	2483.5	2496.5	2493.00	-40.60	0.0871	<25	PASS
802.11ax(HE20)	2442	2496.5	13000	5886.67	-48.75	0.0133	<2.5	PASS
802.11ax(HE20)	2472	30	2387	2312.75	-49.82	0.0104	<2.5	PASS
802.11ax(HE20)	2472	2387	2400	2395.47	-41.55	0.0700	<25	PASS
802.11ax(HE20)	2472	2483.5	2496.5	2483.66	-21.35	7.3282	<25	PASS
802.11ax(HE20)	2472	2496.5	13000	5753.27	-48.53	0.0140	<2.5	PASS
802.11ax(HE40)	2422	30	2387	2387.00	-41.71	0.0675	<2.5	PASS
802.11ax(HE40)	2422	2387	2400	2399.96	-19.97	10.0693	<25	PASS
802.11ax(HE40)	2422	2483.5	2496.5	2496.14	-41.05	0.0785	<25	PASS
802.11ax(HE40)	2422	2496.5	13000	12949.58	-47.74	0.0168	<2.5	PASS

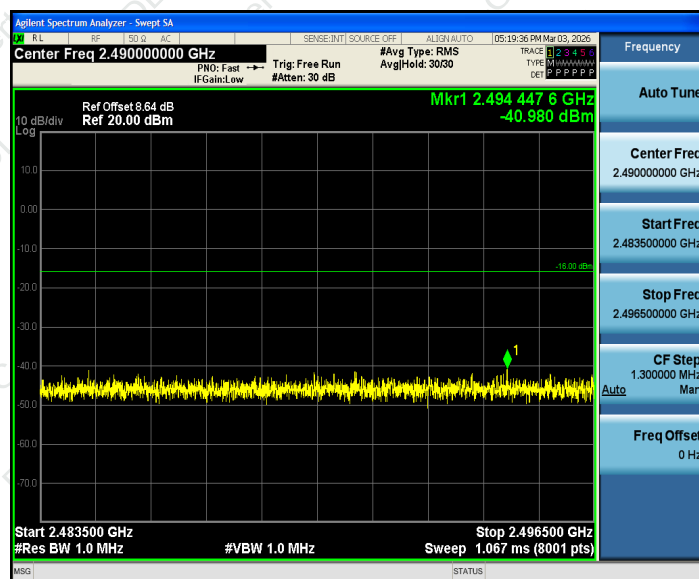
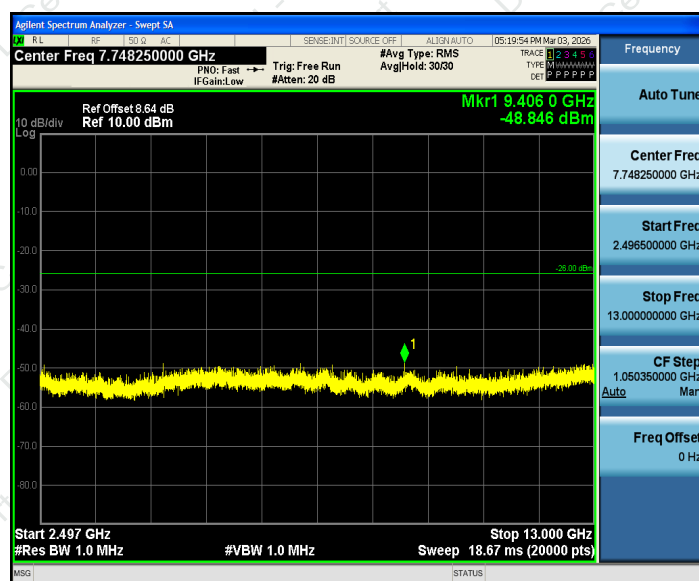


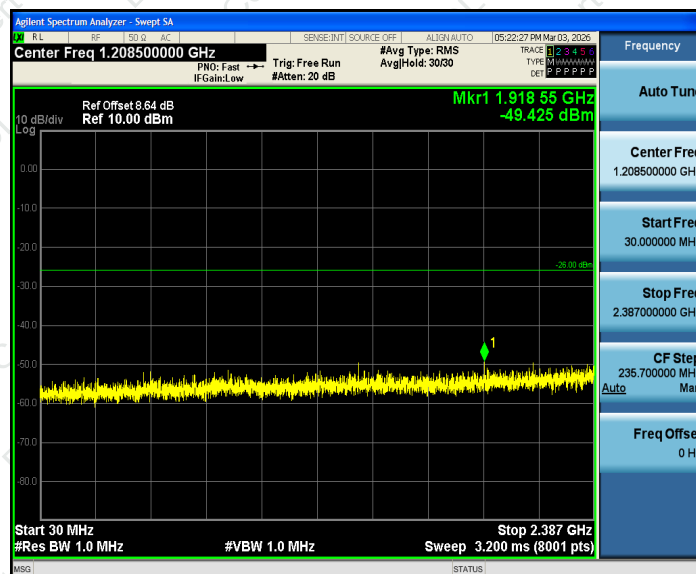
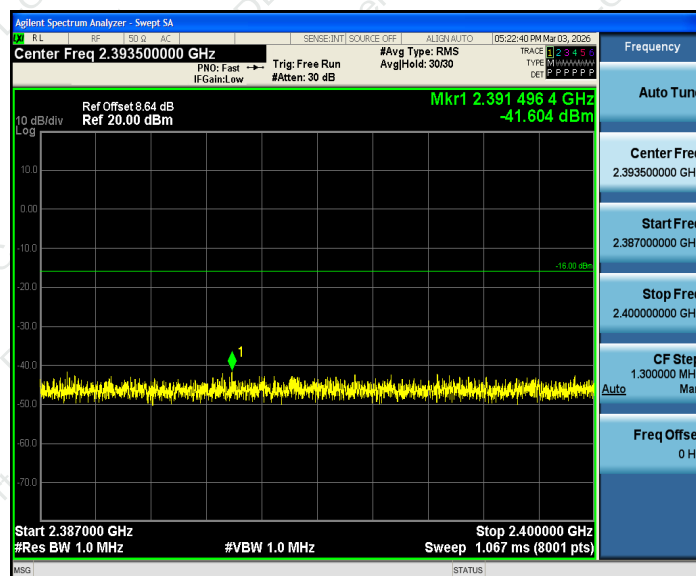
802.11ax(HE40)	2442	30	2387	2204.04	-48.63	0.0137	<2.5	PASS
802.11ax(HE40)	2442	2387	2400	2399.90	-38.24	0.1500	<25	PASS
802.11ax(HE40)	2442	2483.5	2496.5	2494.07	-41.41	0.0723	<25	PASS
802.11ax(HE40)	2442	2496.5	13000	6020.60	-49.00	0.0126	<2.5	PASS
802.11ax(HE40)	2462	30	2387	2233.21	-49.72	0.0107	<2.5	PASS
802.11ax(HE40)	2462	2387	2400	2388.51	-41.46	0.0714	<25	PASS
802.11ax(HE40)	2462	2483.5	2496.5	2483.64	-19.48	11.2720	<25	PASS
802.11ax(HE40)	2462	2496.5	13000	2496.50	-45.84	0.0261	<2.5	PASS

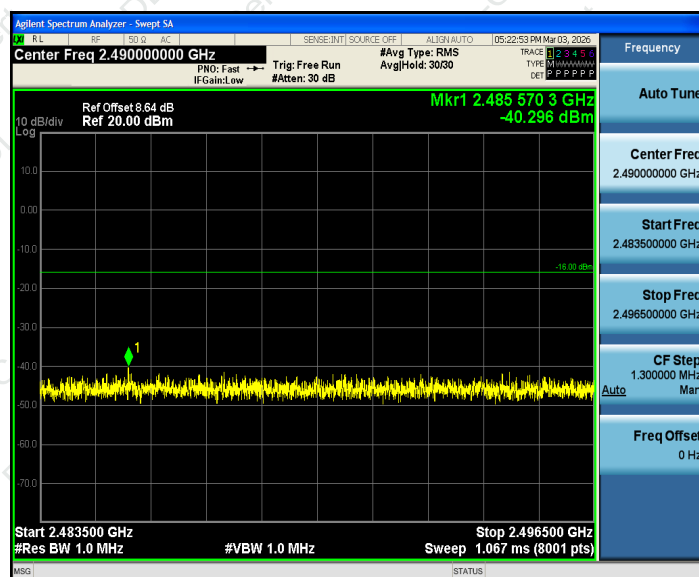
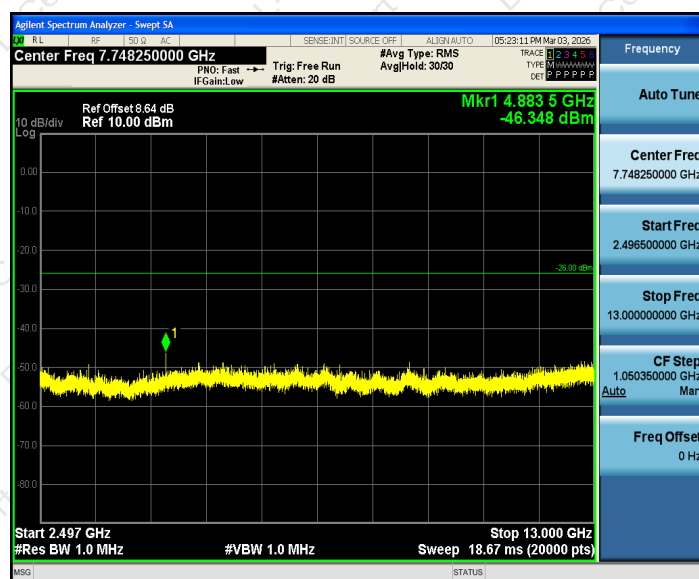


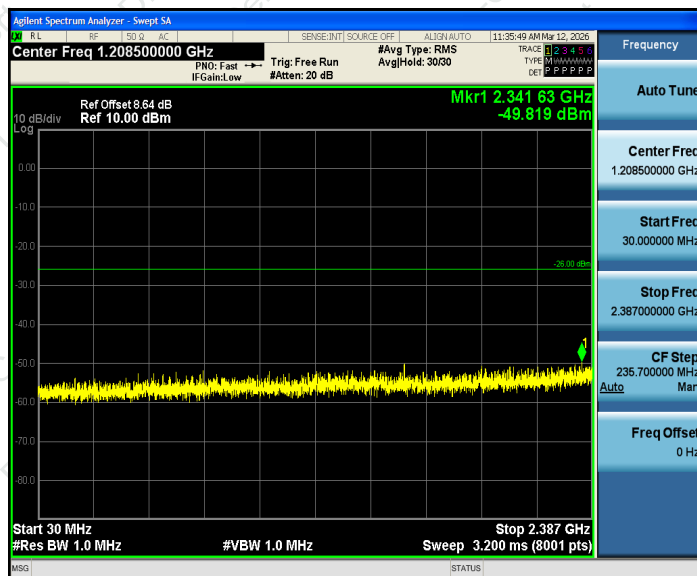
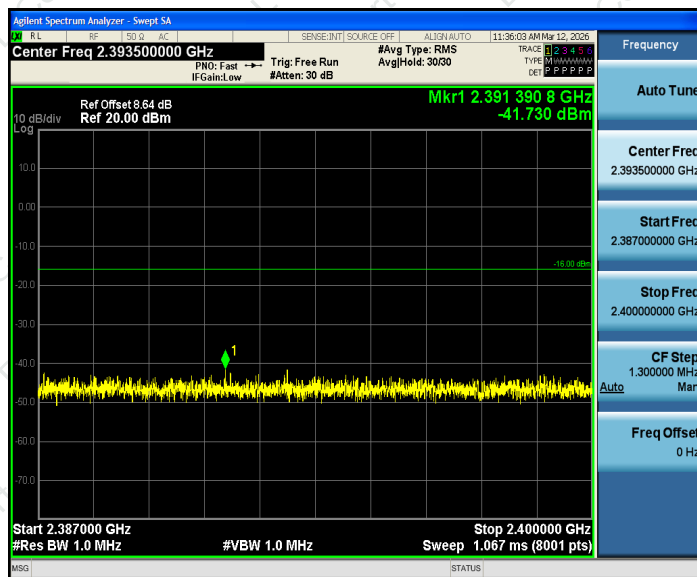
EUT:	Action Camera	Test Date:	Mar. 03, 2026
Temperature:	25°C	Tested by:	Len Liao
Humidity:	55 % RH	Test Voltage	Normal Voltage
Operation Mode:	Normal Voltage-B mode		

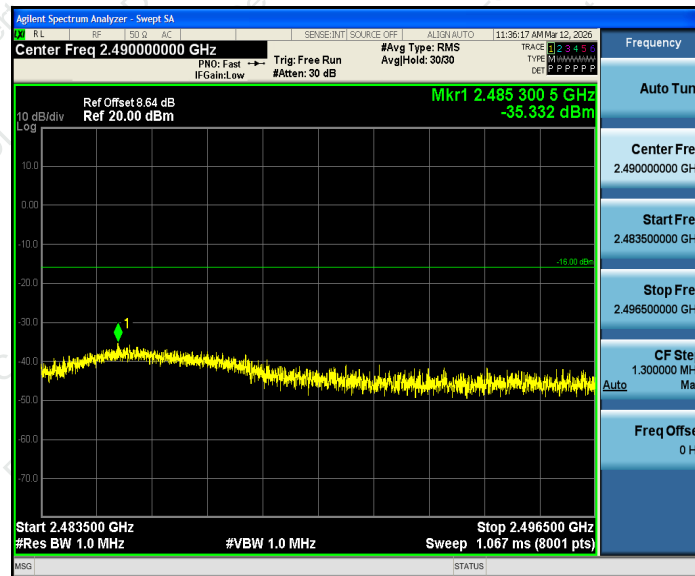
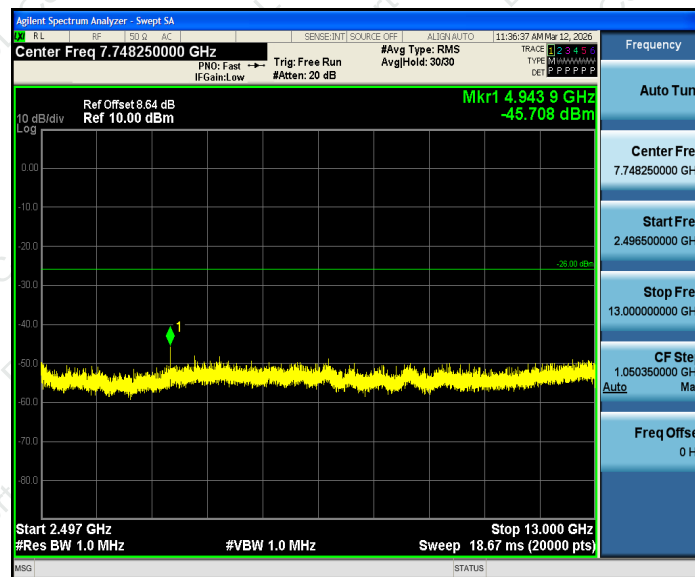
CH 01:2412MHz - Frequency Band 1 ($30 \text{ MHz} \leq f \leq 2387 \text{ MHz}$)**CH 01:2412MHz - Frequency Band 2 ($2387 \text{ MHz} < f \leq 2400 \text{ MHz}$)**

**CH 01:2412MHz - Frequency Band 3 ($2483.5 \text{ MHz} < f \leq 2496.5 \text{ MHz}$)****CH 01:2412MHz - Frequency Band 4 ($2496.5 \text{ MHz} \leq f < 13000 \text{ MHz}$)**

**CH 07:2442MHz - Frequency Band 1 ($30 \text{ MHz} \leq f \leq 2387 \text{ MHz}$)****CH 07:2442MHz - Frequency Band 2 ($2387 \text{ MHz} < f \leq 2400 \text{ MHz}$)**

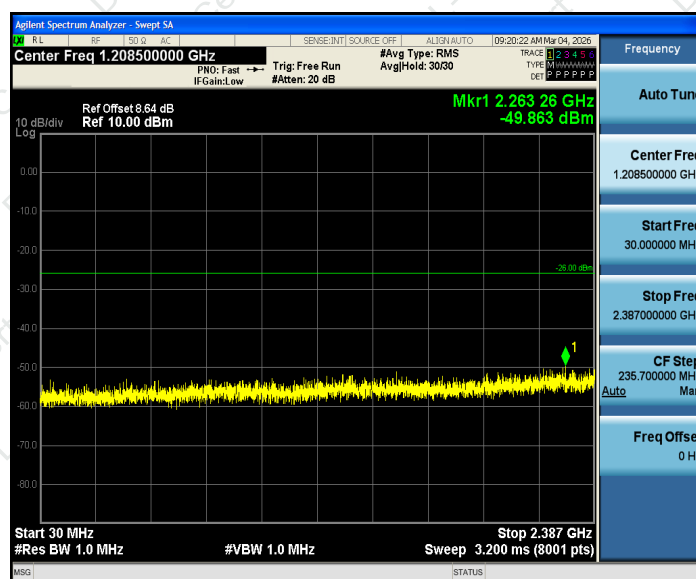
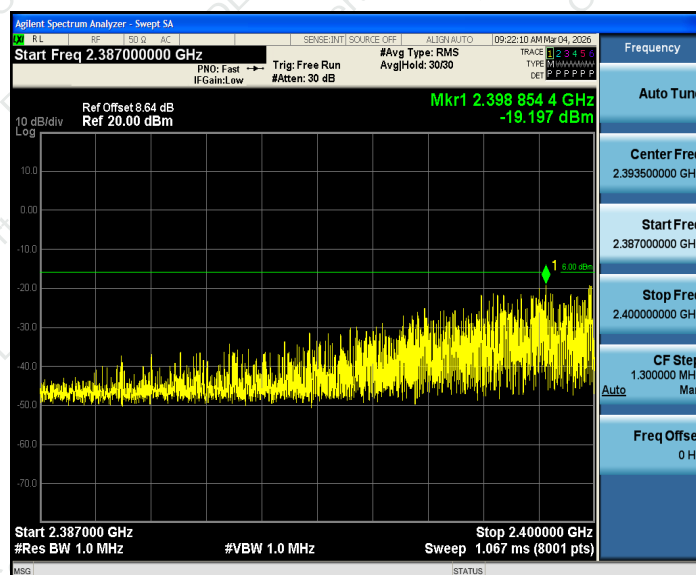
**CH 07:2442MHz - Frequency Band 3 ($2483.5 \text{ MHz} < f \leq 2496.5 \text{ MHz}$)****CH 07:2442MHz - Frequency Band 4 ($2496.5 \text{ MHz} \leq f < 13000 \text{ MHz}$)**

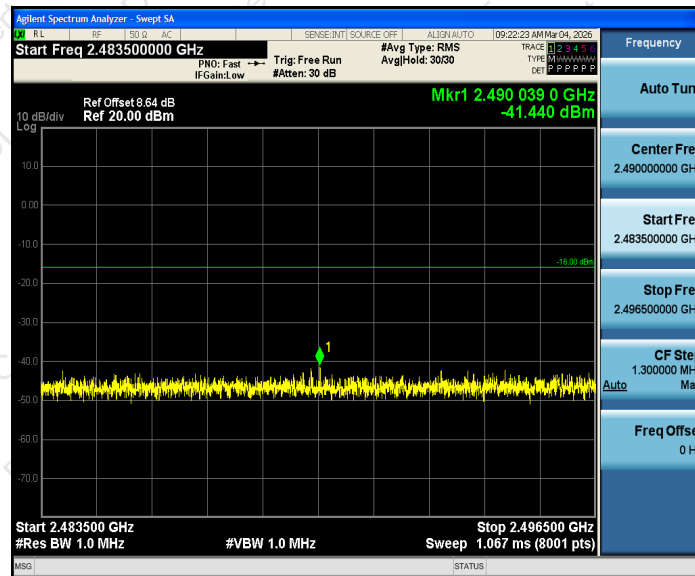
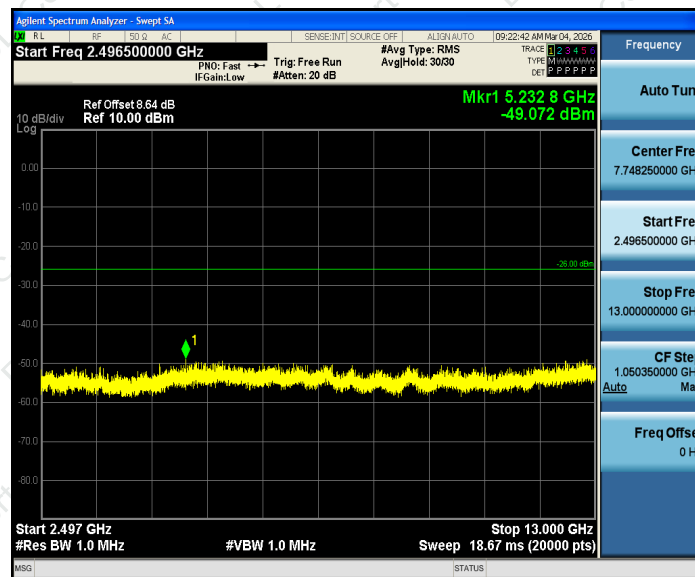
**CH 13:2472MHz - Frequency Band 1 (30 MHz $\leq$ f $\leq$ 2387 MHz)****CH 13:2472MHz - Frequency Band 2 (2387 MHz < f $\leq$ 2400 MHz)**

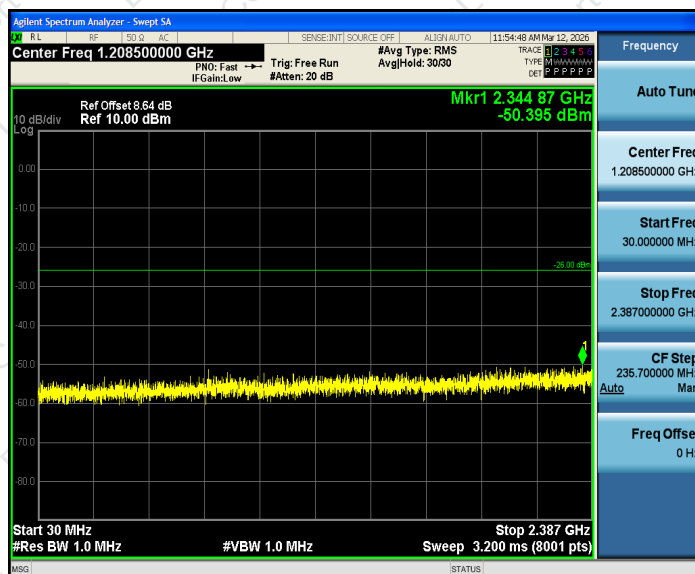
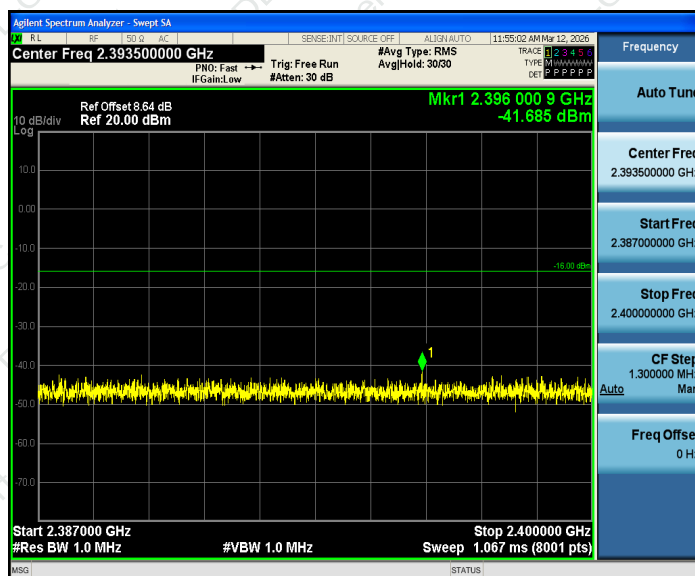
**CH 13:2472MHz - Frequency Band 3 ($2483.5 \text{ MHz} < f \leq 2496.5 \text{ MHz}$)****CH 13:2472MHz - Frequency Band 4 ($2496.5 \text{ MHz} \leq f < 13000 \text{ MHz}$)**

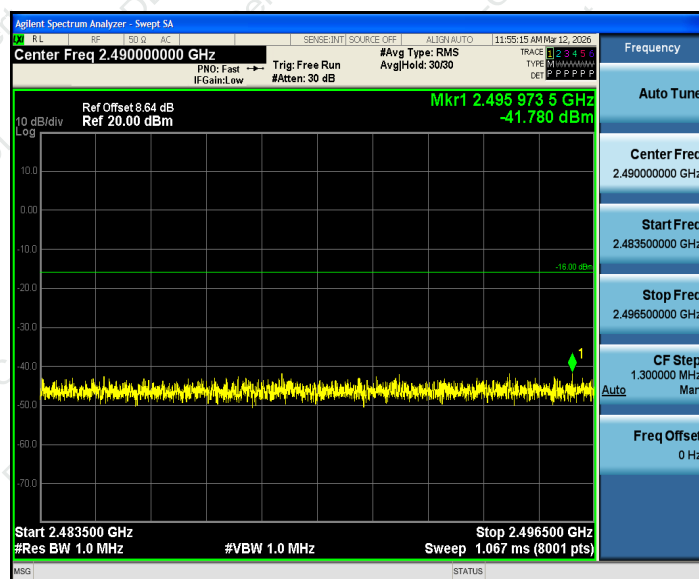
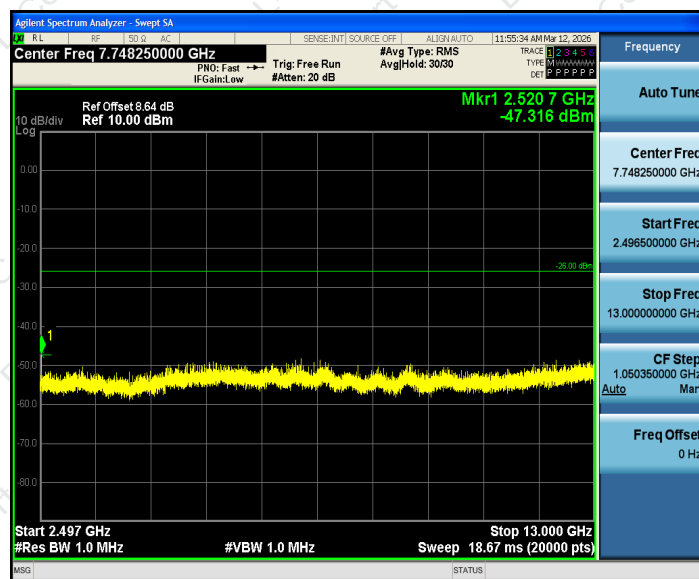


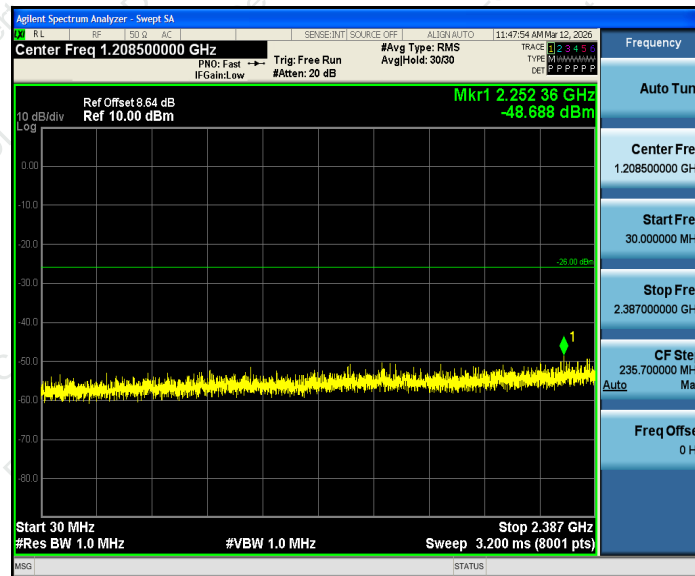
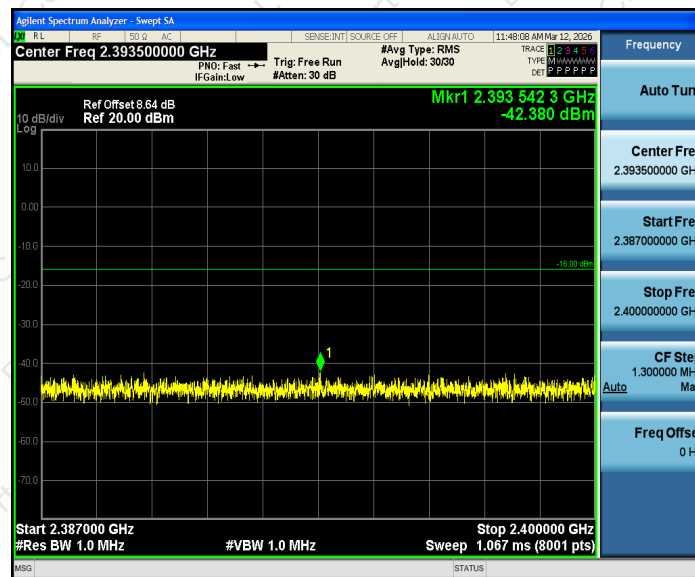
EUT:	Action Camera	Test Date:	Mar. 04, 2026
Temperature:	25°C	Tested by:	Len Liao
Humidity:	55 % RH	Test Voltage	Normal Voltage
Operation Mode:	Normal Voltage-G mode		

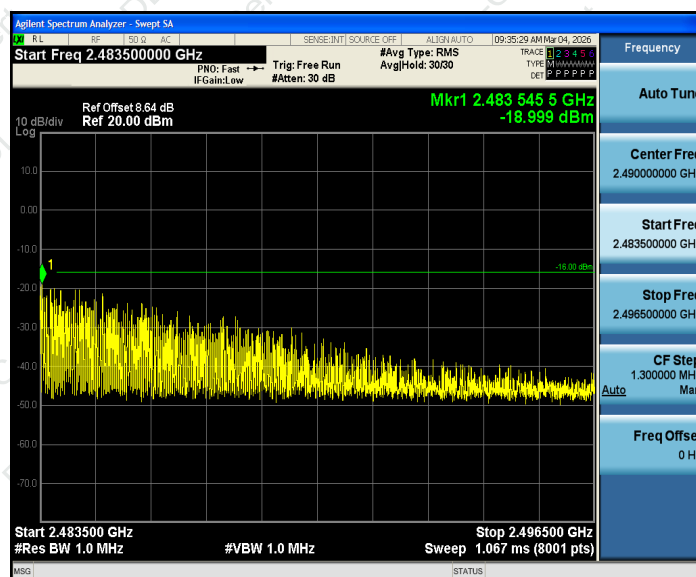
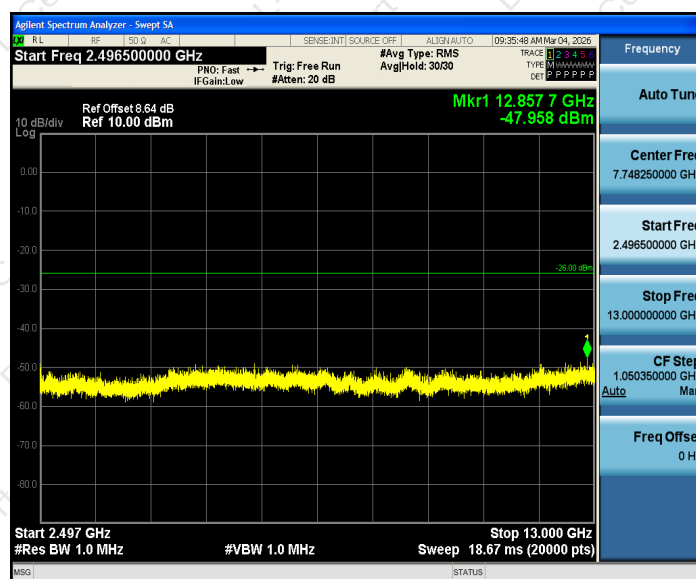
CH 01:2412MHz - Frequency Band 1 ($30 \text{ MHz} \leq f \leq 2387 \text{ MHz}$)**CH 01:2412MHz - Frequency Band 2 ($2387 \text{ MHz} < f \leq 2400 \text{ MHz}$)**

**CH 01:2412MHz - Frequency Band 3 ($2483.5 \text{ MHz} < f \leq 2496.5 \text{ MHz}$)****CH 01:2412MHz - Frequency Band 4 ($2496.5 \text{ MHz} \leq f < 13000 \text{ MHz}$)**

**CH 07:2442MHz - Frequency Band 1 ($30 \text{ MHz} \leq f \leq 2387 \text{ MHz}$)****CH 07:2442MHz - Frequency Band 2 ($2387 \text{ MHz} < f \leq 2400 \text{ MHz}$)**

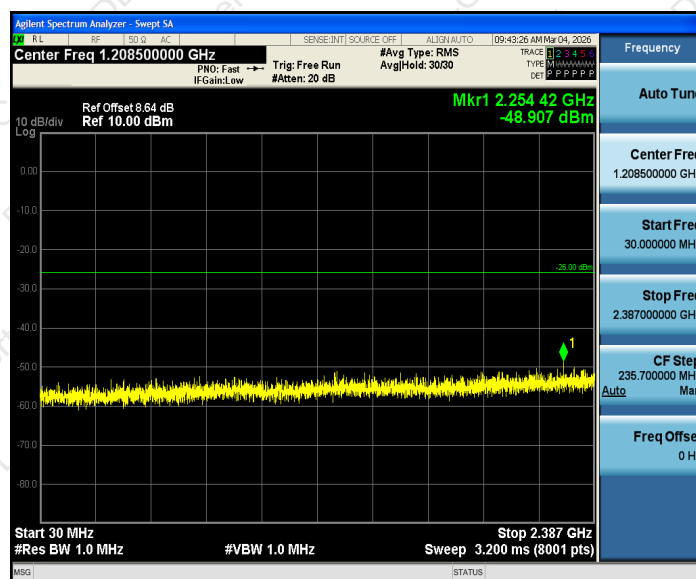
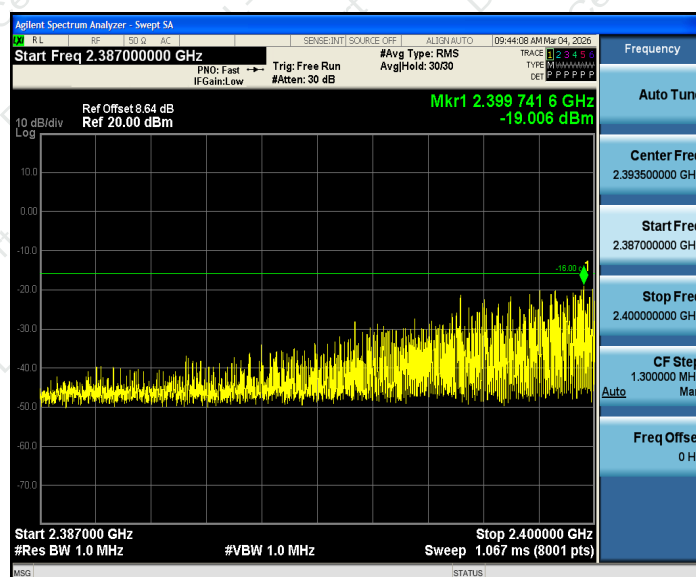
**CH 07:2442MHz - Frequency Band 3 ($2483.5 \text{ MHz} < f \leq 2496.5 \text{ MHz}$)****CH 07:2442MHz - Frequency Band 4 ($2496.5 \text{ MHz} \leq f < 13000 \text{ MHz}$)**

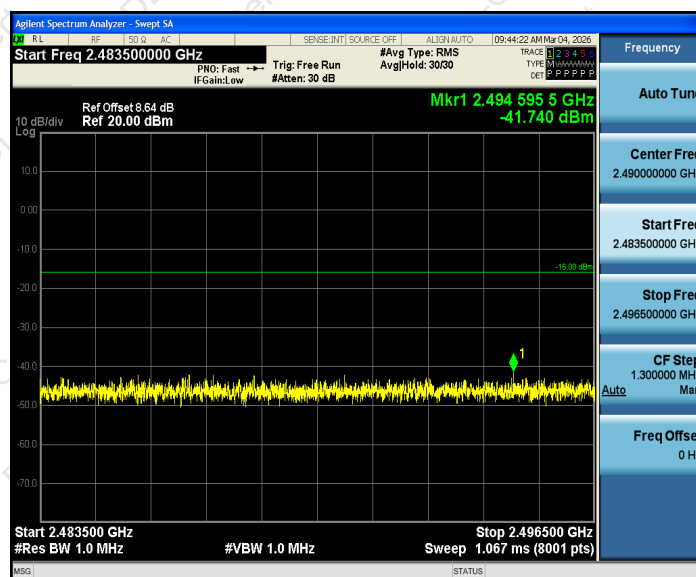
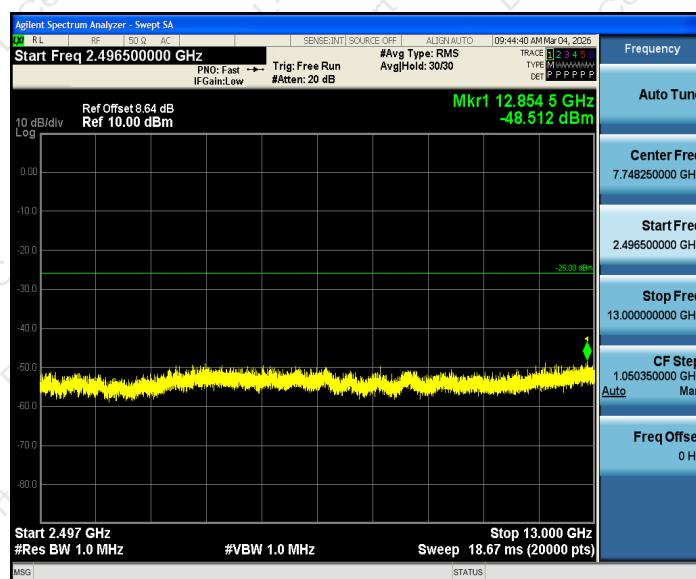
**CH 13:2472MHz - Frequency Band 1 (30 MHz $\leq$ f $\leq$ 2387 MHz)****CH 13:2472MHz - Frequency Band 2 (2387 MHz < f $\leq$ 2400 MHz)**

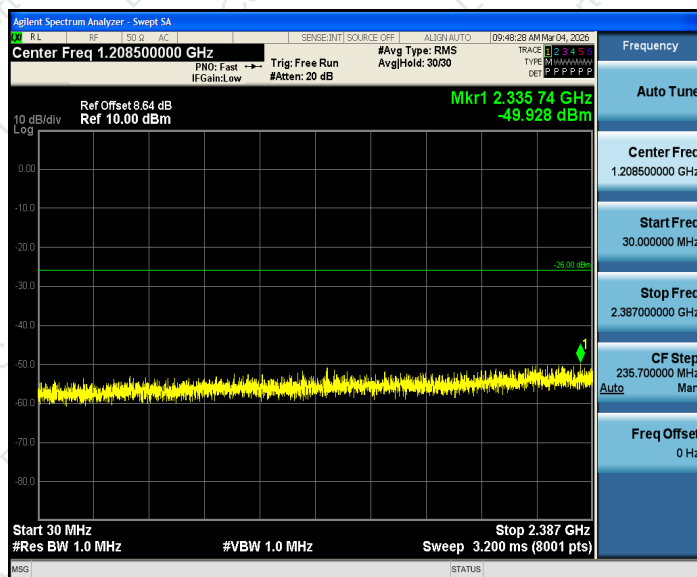
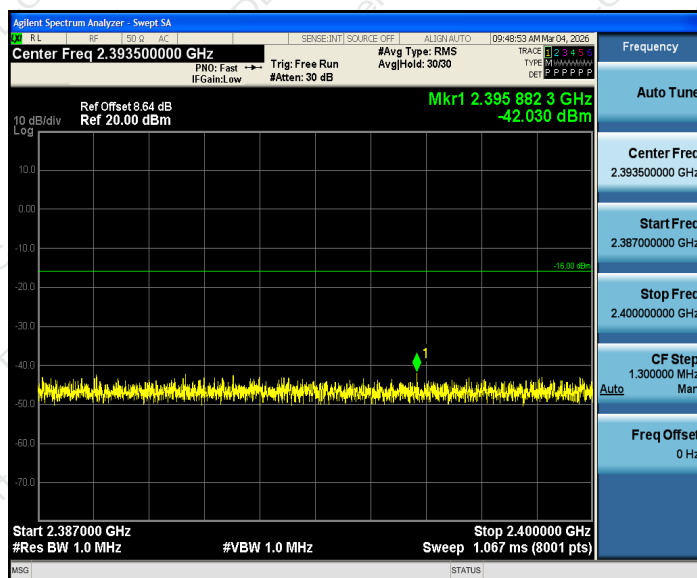
**CH 13:2472MHz - Frequency Band 3 ($2483.5 \text{ MHz} < f \leq 2496.5 \text{ MHz}$)****CH 13:2472MHz - Frequency Band 4 ($2496.5 \text{ MHz} \leq f < 13000 \text{ MHz}$)**

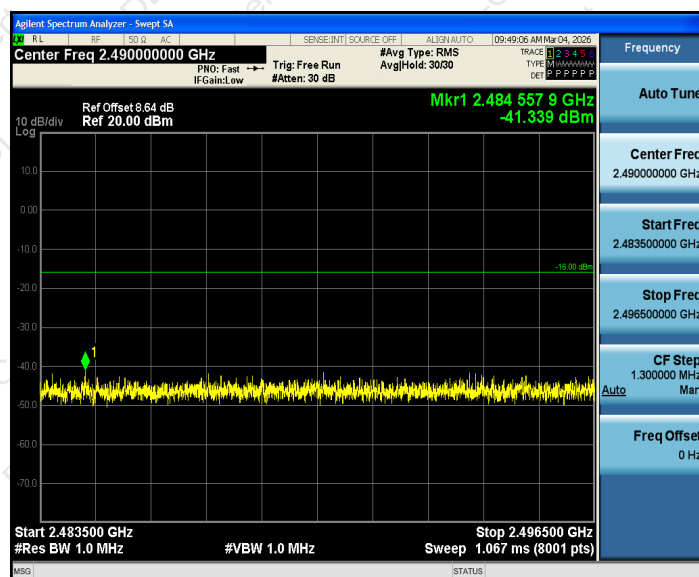
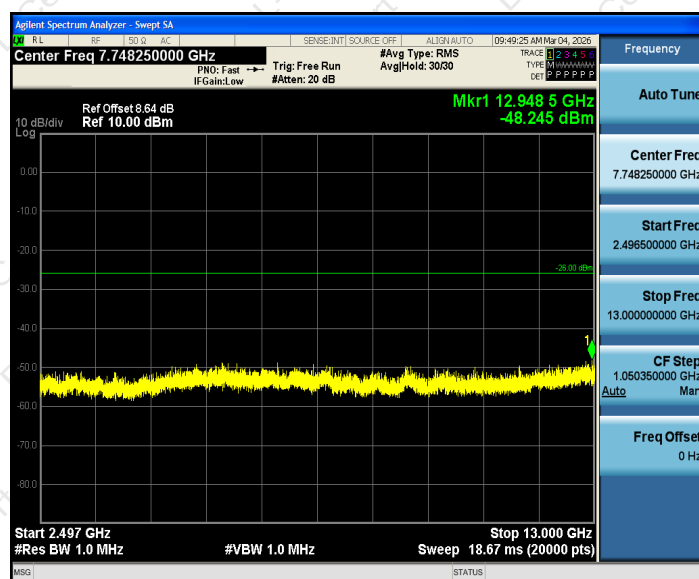


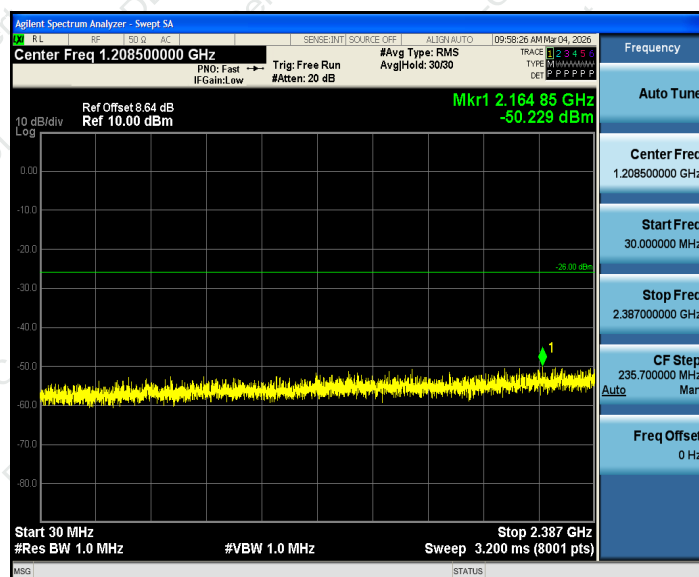
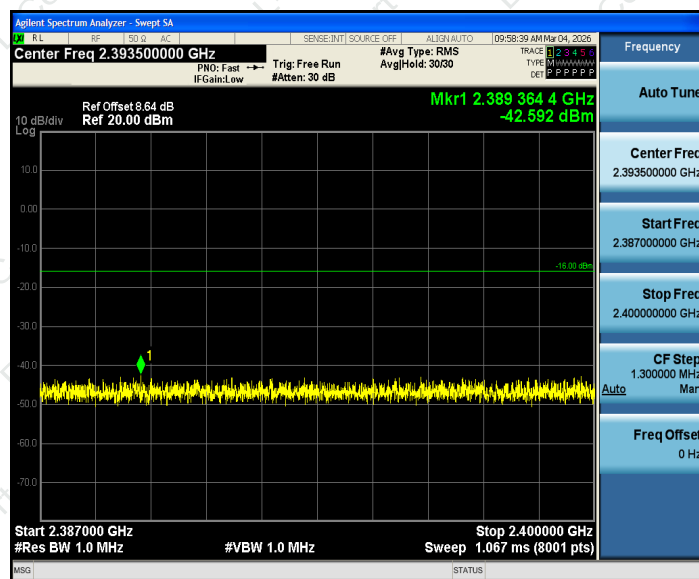
EUT:	Action Camera	Test Date:	Mar. 04, 2026
Temperature:	250C	Tested by:	Len Liao
Humidity:	55 % RH	Test Voltage	Normal Voltage
Operation Mode:	Normal Voltage-N20 mode		

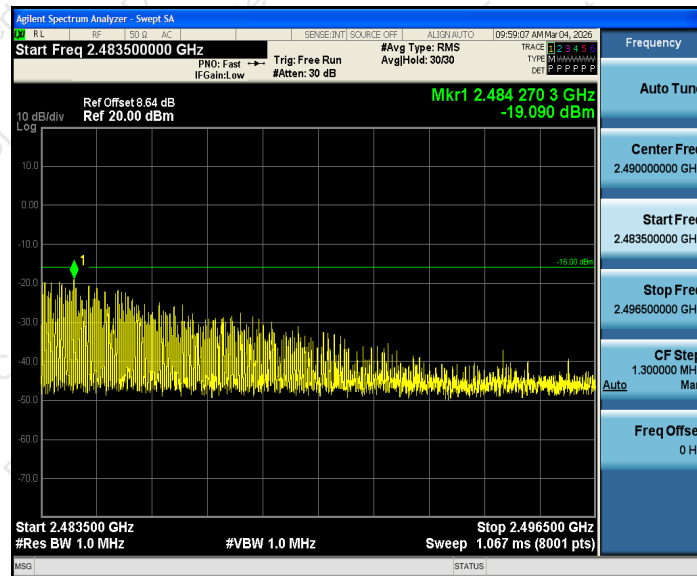
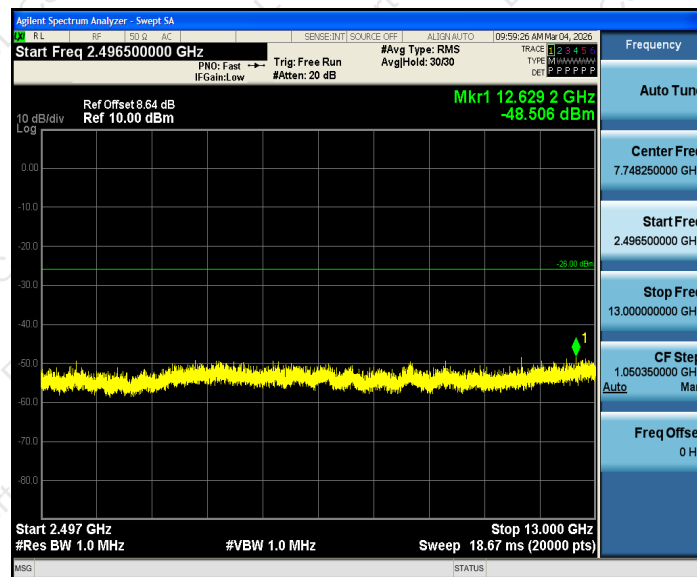
CH 01:2412MHz - Frequency Band 1 (30 MHz $\leq$ f $\leq$ 2387 MHz)**CH 01:2412MHz - Frequency Band 2 (2387 MHz < f $\leq$ 2400 MHz)**

**CH 01:2412MHz - Frequency Band 3 ($2483.5 \text{ MHz} < f \leq 2496.5 \text{ MHz}$)****CH 01:2412MHz - Frequency Band 4 ($2496.5 \text{ MHz} \leq f < 13000 \text{ MHz}$)**

**CH 07:2442MHz - Frequency Band 1 ($30 \text{ MHz} \leq f \leq 2387 \text{ MHz}$)****CH 07:2442MHz - Frequency Band 2 ($2387 \text{ MHz} < f \leq 2400 \text{ MHz}$)**

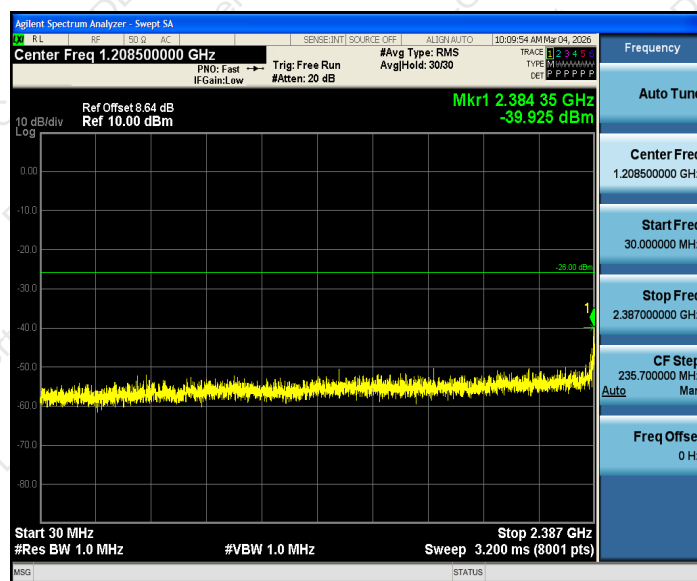
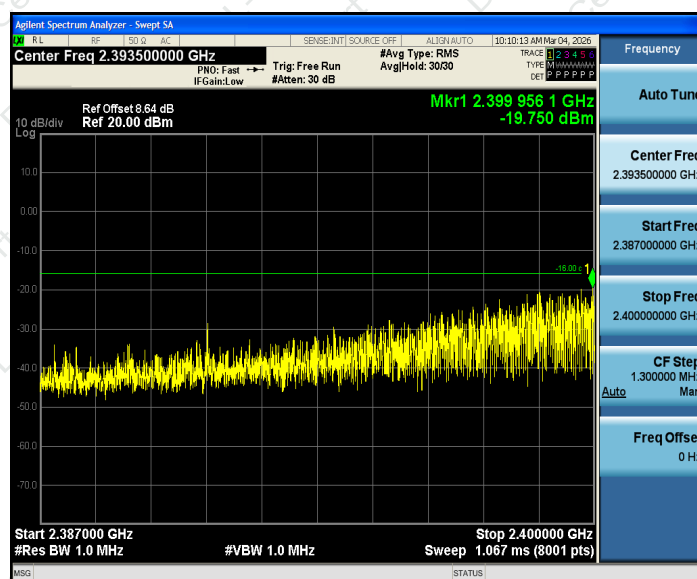
**CH 07:2442MHz - Frequency Band 3 ($2483.5 \text{ MHz} < f \leq 2496.5 \text{ MHz}$)****CH 07:2442MHz - Frequency Band 4 ($2496.5 \text{ MHz} \leq f < 13000 \text{ MHz}$)**

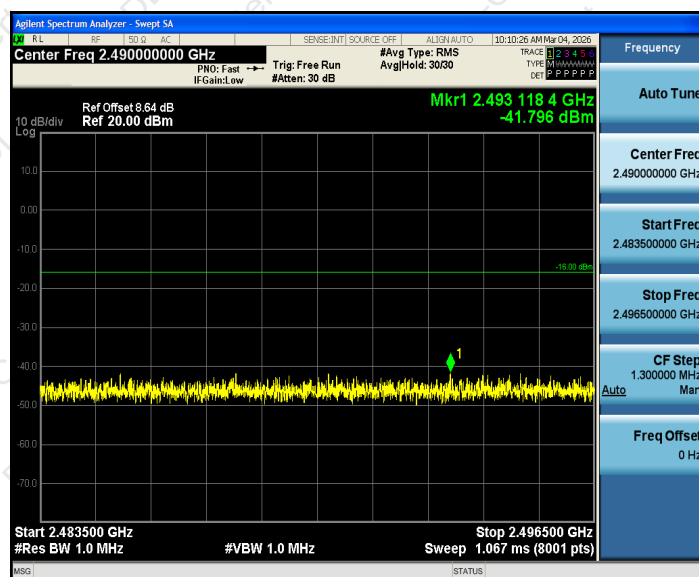
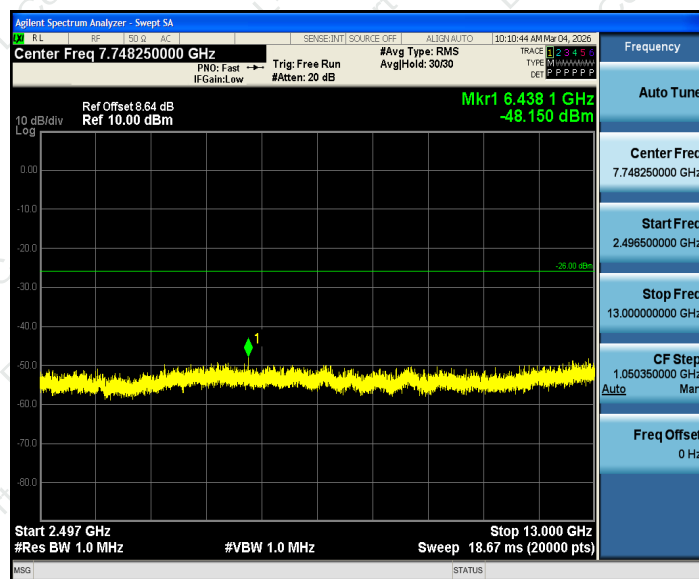
**CH 13:2472MHz - Frequency Band 1 (30 MHz $\leq$ f $\leq$ 2387 MHz)****CH 13:2472MHz - Frequency Band 2 (2387 MHz < f $\leq$ 2400 MHz)**

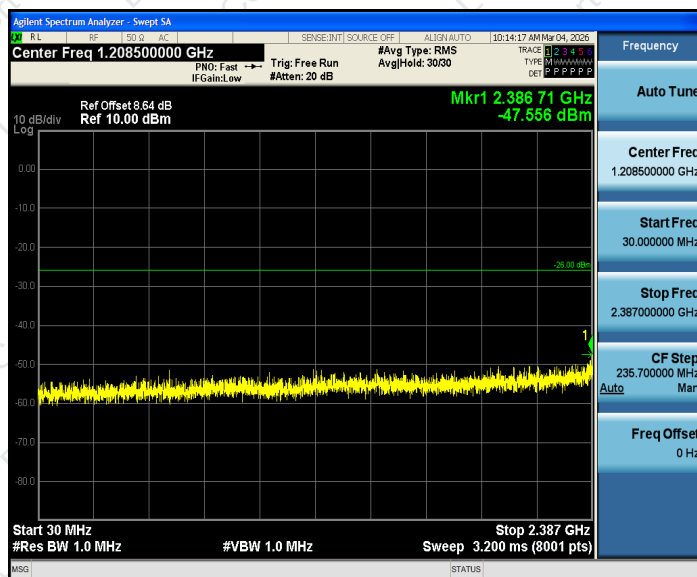
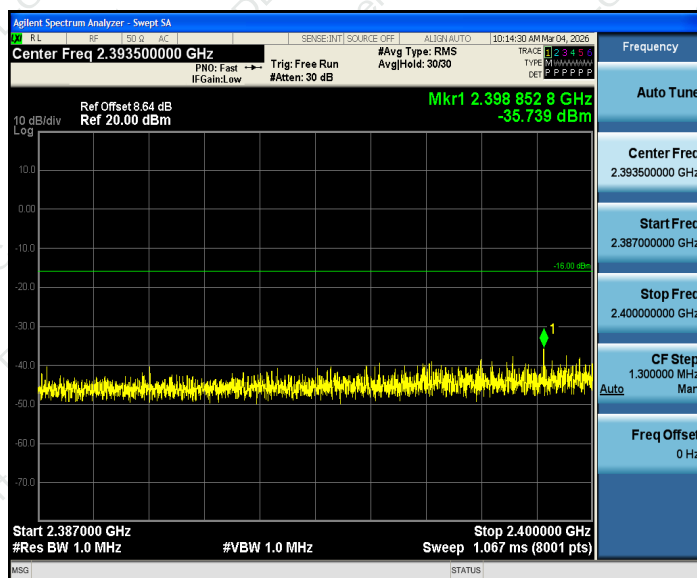
**CH 13:2472MHz - Frequency Band 3 ($2483.5 \text{ MHz} < f \leq 2496.5 \text{ MHz}$)****CH 13:2472MHz - Frequency Band 4 ($2496.5 \text{ MHz} \leq f < 13000 \text{ MHz}$)**

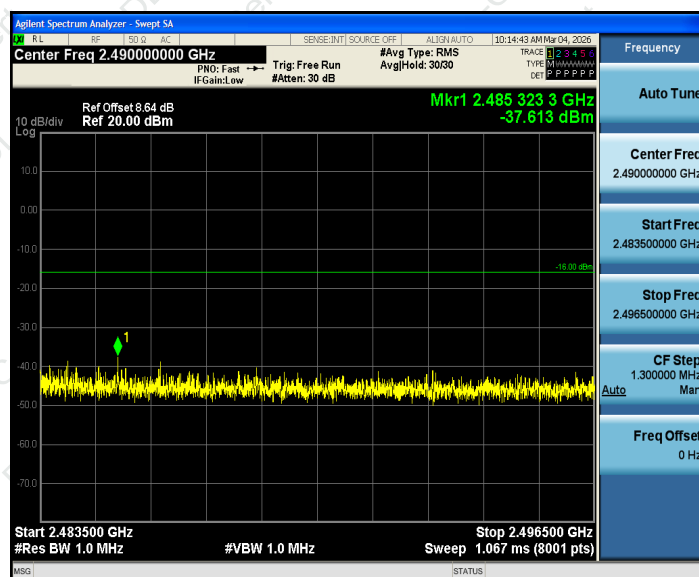
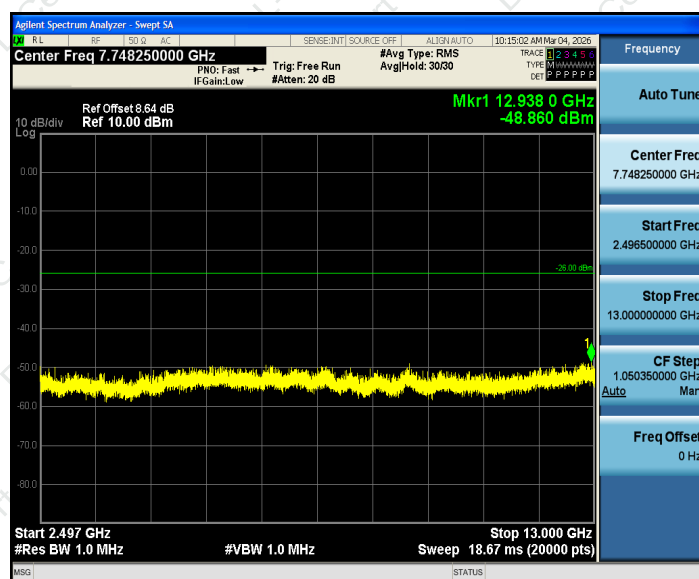


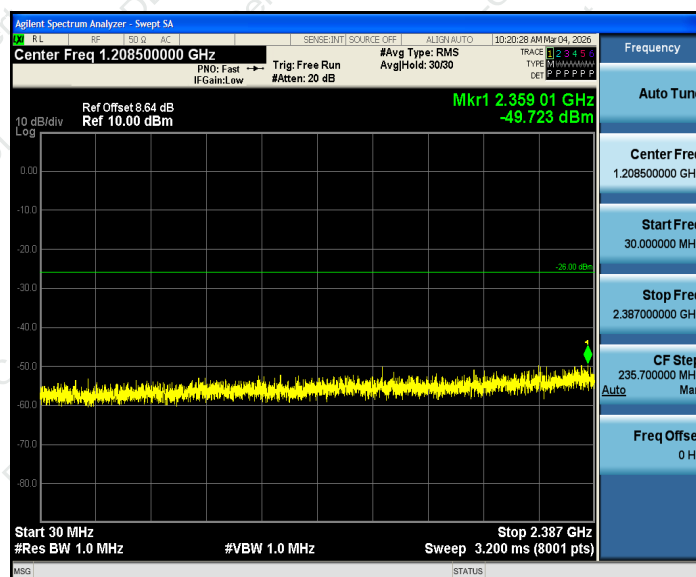
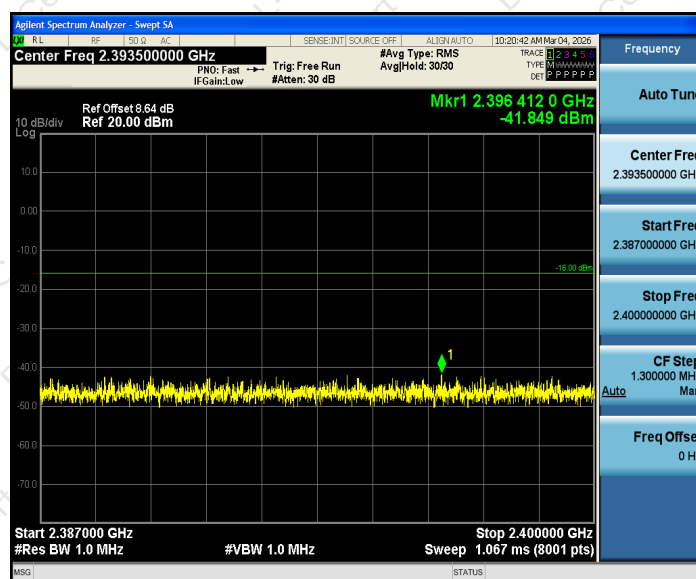
EUT:	Action Camera	Test Date:	Mar. 04, 2026
Temperature:	250C	Tested by:	Len Liao
Humidity:	55 % RH	Test Voltage	Normal Voltage
Operation Mode:	Normal Voltage-N40 mode		

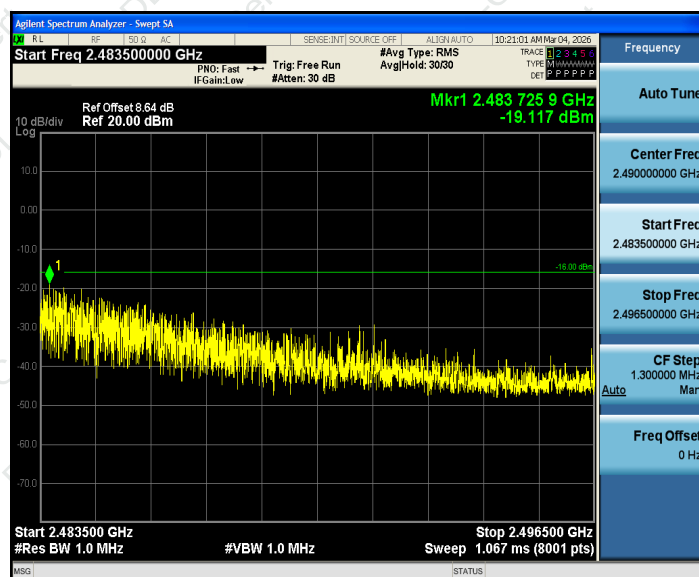
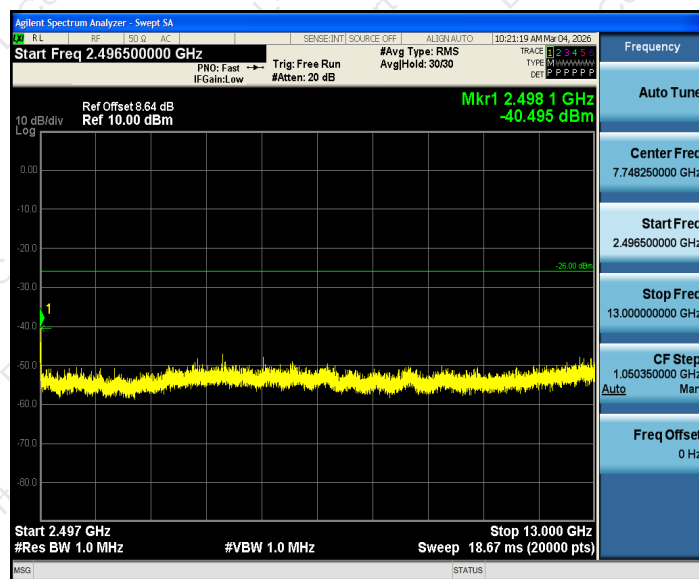
CH 03:2422MHz - Frequency Band 1 (30 MHz $\leq$ f $\leq$ 2387 MHz)**CH 03:2422MHz - Frequency Band 2 (2387 MHz < f $\leq$ 2400 MHz)**

**CH 03:2422MHz - Frequency Band 3 ($2483.5 \text{ MHz} < f \leq 2496.5 \text{ MHz}$)****CH 03:2422MHz - Frequency Band 4 ($2496.5 \text{ MHz} \leq f < 13000 \text{ MHz}$)**

**CH 07:2442MHz - Frequency Band 1 ($30 \text{ MHz} \leq f \leq 2387 \text{ MHz}$)****CH 07:2442MHz - Frequency Band 2 ($2387 \text{ MHz} < f \leq 2400 \text{ MHz}$)**

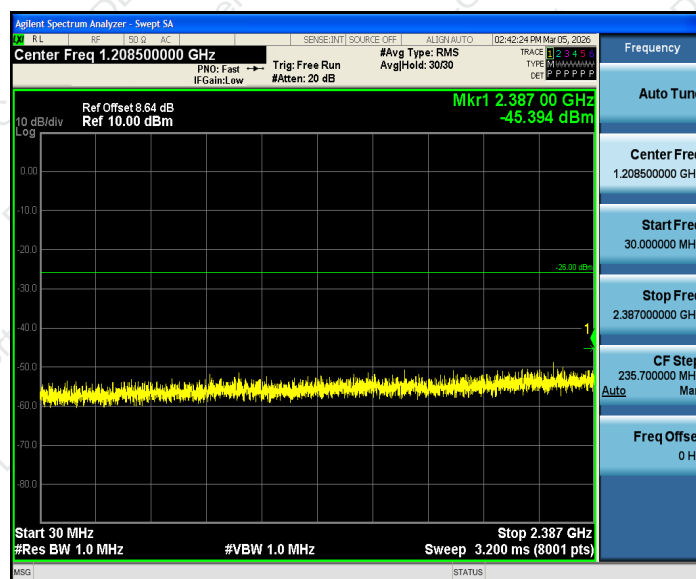
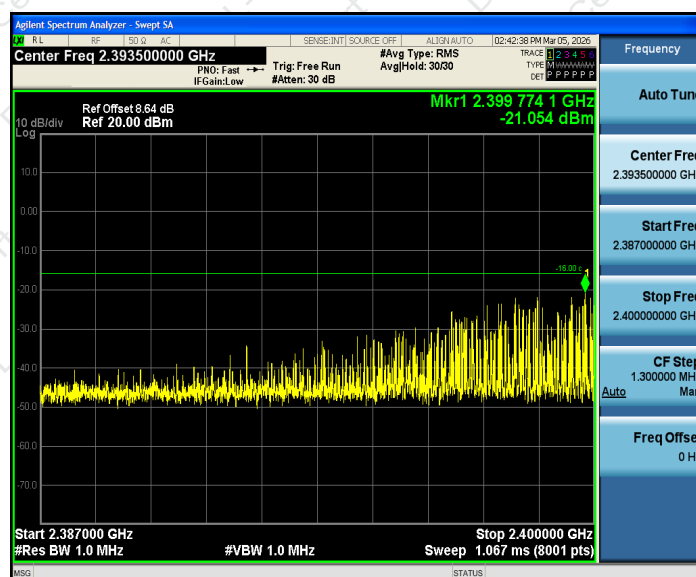
**CH 07:2442MHz - Frequency Band 3 ($2483.5 \text{ MHz} < f \leq 2496.5 \text{ MHz}$)****CH 07:2442MHz - Frequency Band 4 ($2496.5 \text{ MHz} \leq f < 13000 \text{ MHz}$)**

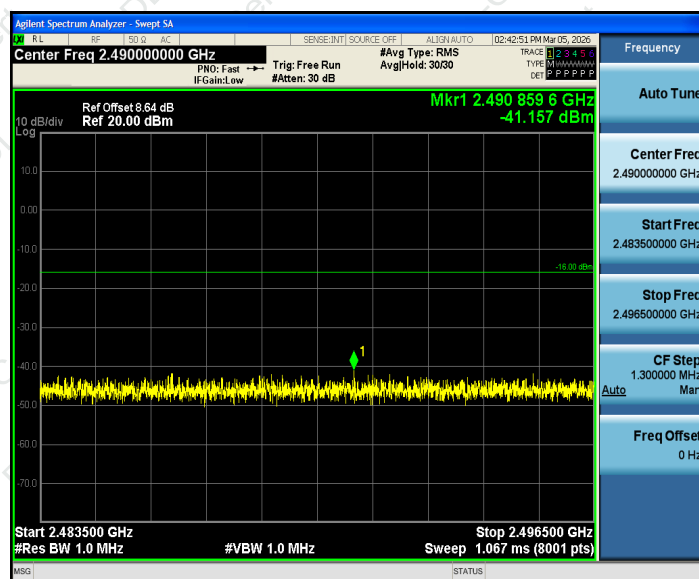
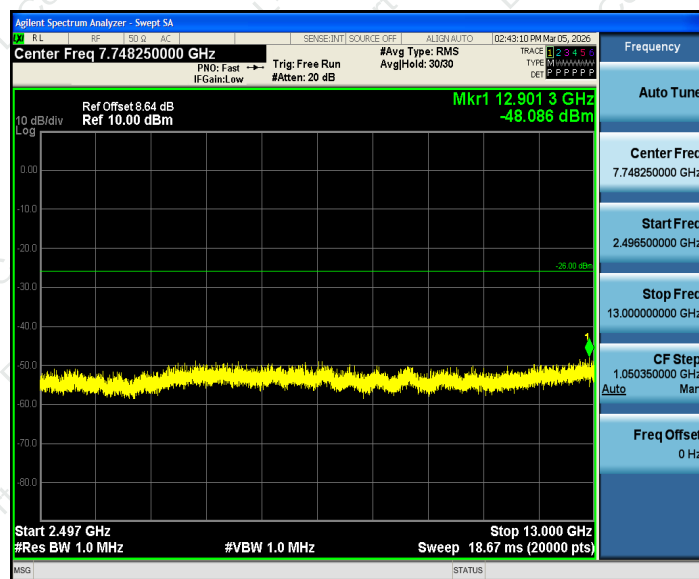
**CH 11:2462MHz - Frequency Band 1 (30 MHz $\leq$ f $\leq$ 2387 MHz)****CH 11:2462MHz - Frequency Band 2 (2387 MHz < f $\leq$ 2400 MHz)**

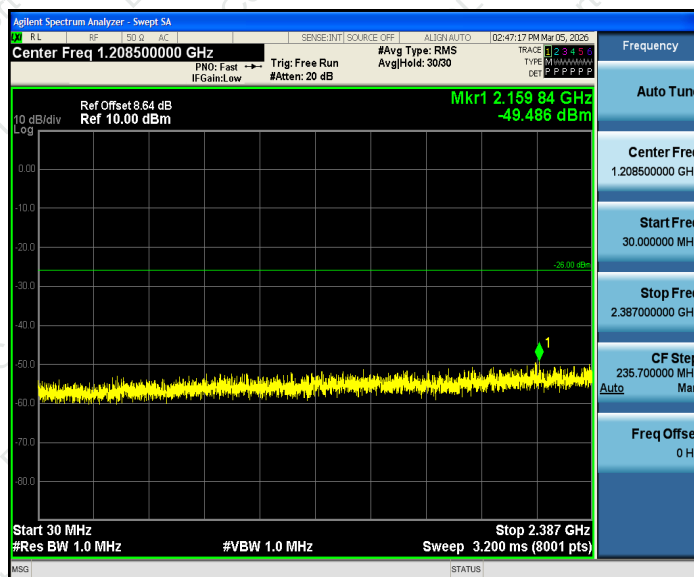
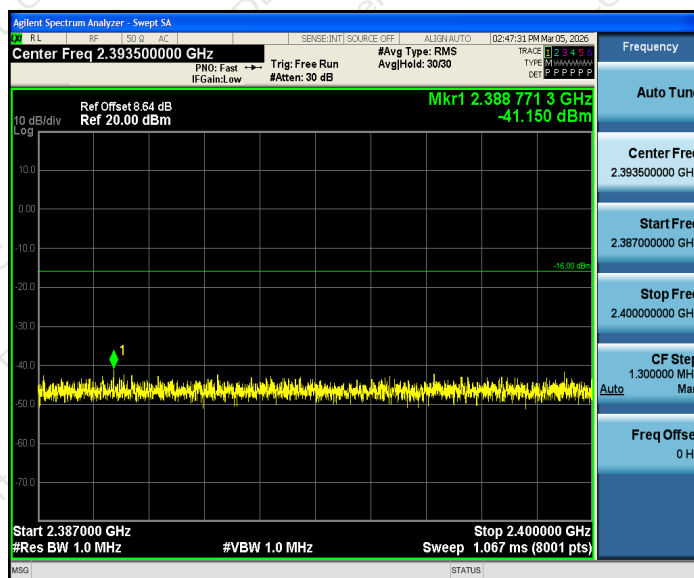
**CH 11:2462MHz - Frequency Band 3 ($2483.5 \text{ MHz} < f \leq 2496.5 \text{ MHz}$)****CH 11:2462MHz - Frequency Band 4 ($2496.5 \text{ MHz} \leq f < 13000 \text{ MHz}$)**

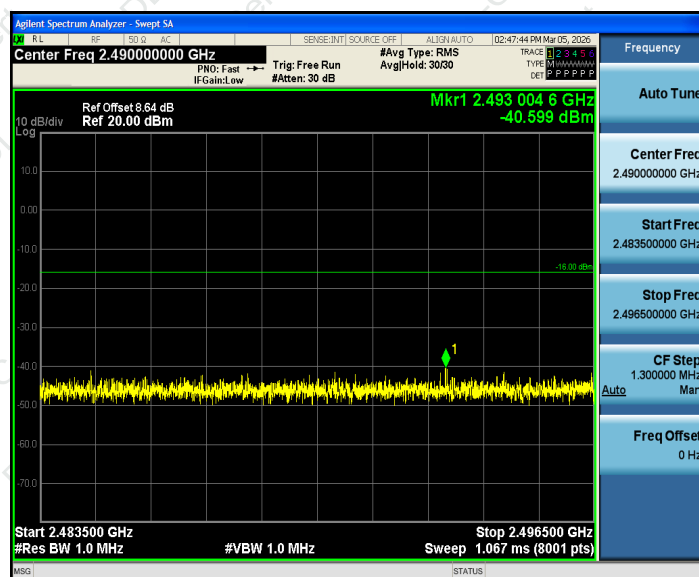
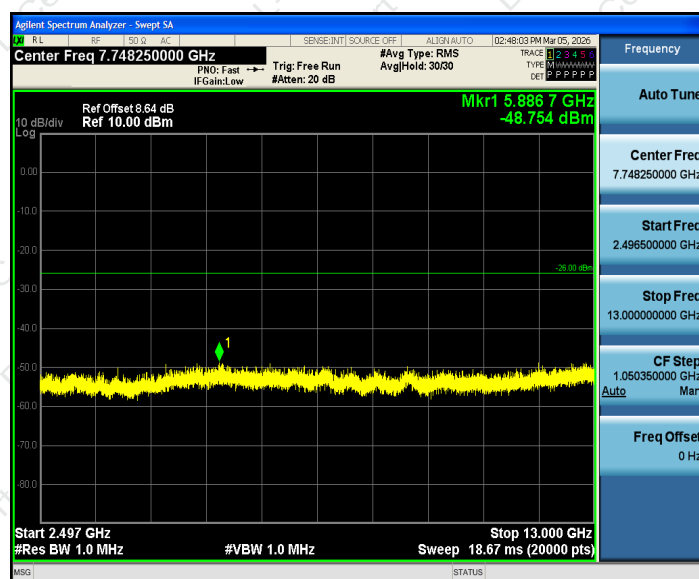


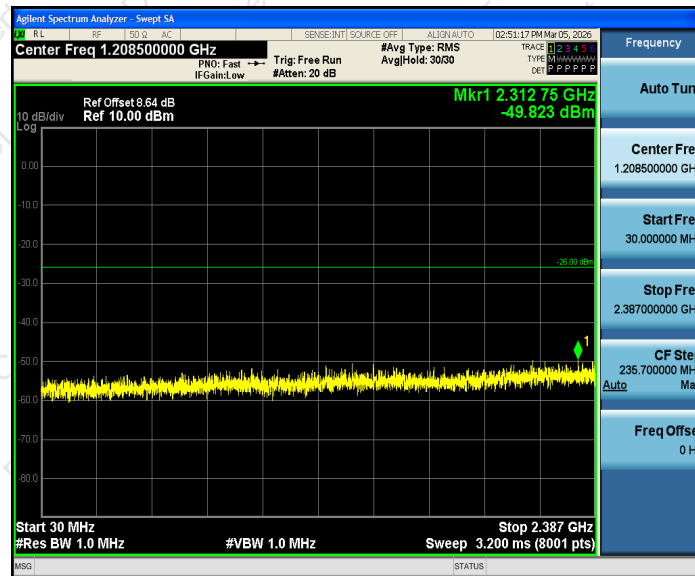
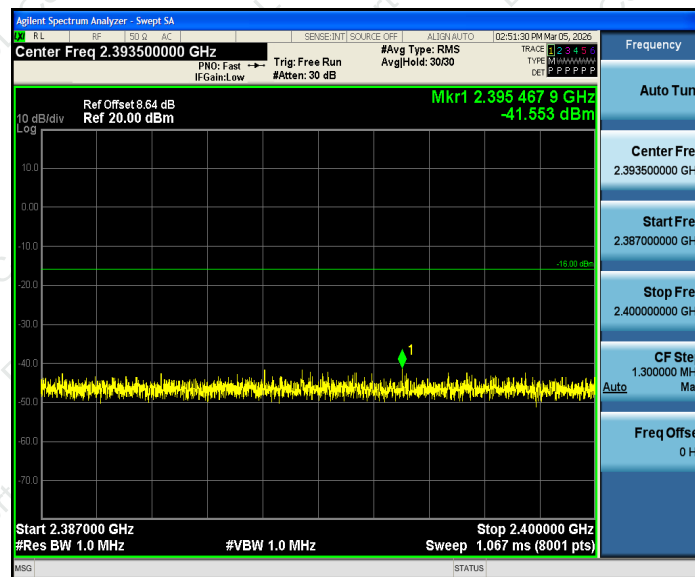
EUT:	Action Camera	Test Date:	Mar. 05, 2026
Temperature:	250C	Tested by:	Len Liao
Humidity:	55 % RH	Test Voltage	Normal Voltage
Operation Mode:	Normal Voltage-AX20 mode		

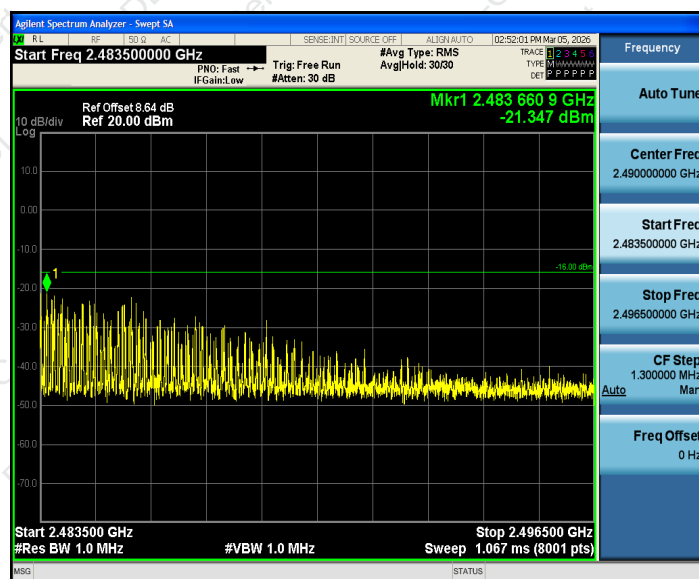
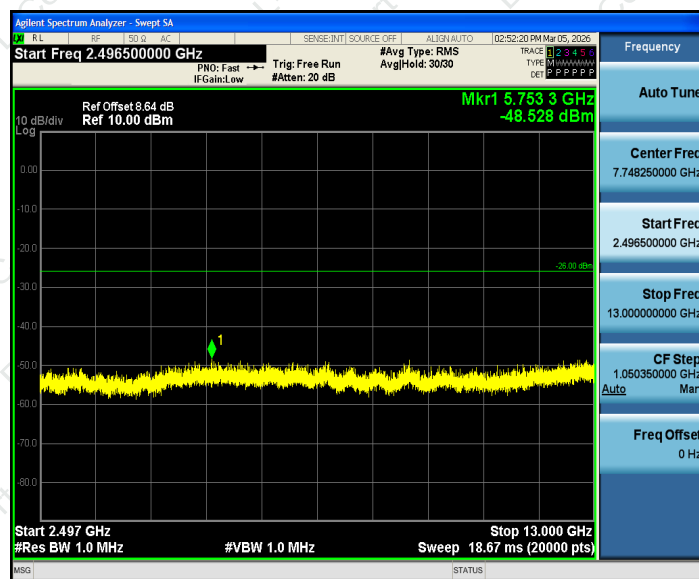
CH 01:2412MHz - Frequency Band 1 (30 MHz $\leq$ f $\leq$ 2387 MHz)**CH 01:2412MHz - Frequency Band 2 (2387 MHz < f $\leq$ 2400 MHz)**

**CH 01:2412MHz - Frequency Band 3 ($2483.5 \text{ MHz} < f \leq 2496.5 \text{ MHz}$)****CH 01:2412MHz - Frequency Band 4 ($2496.5 \text{ MHz} \leq f < 13000 \text{ MHz}$)**

**CH 07:2442MHz - Frequency Band 1 ($30 \text{ MHz} \leq f \leq 2387 \text{ MHz}$)****CH 07:2442MHz - Frequency Band 2 ($2387 \text{ MHz} < f \leq 2400 \text{ MHz}$)**

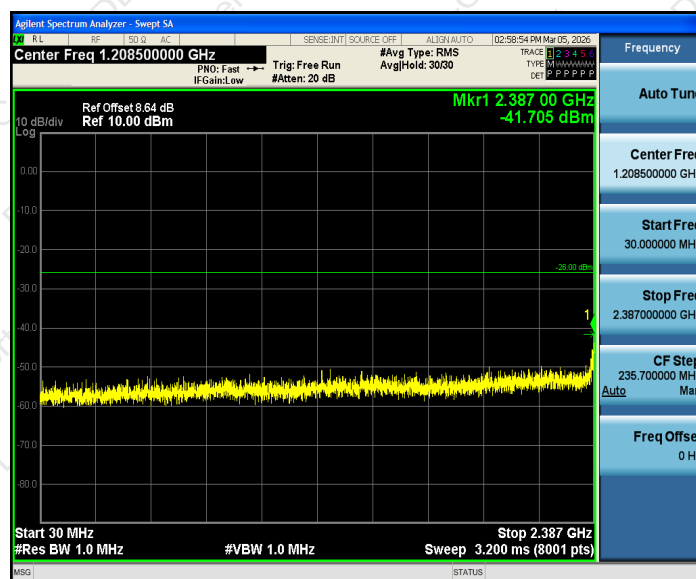
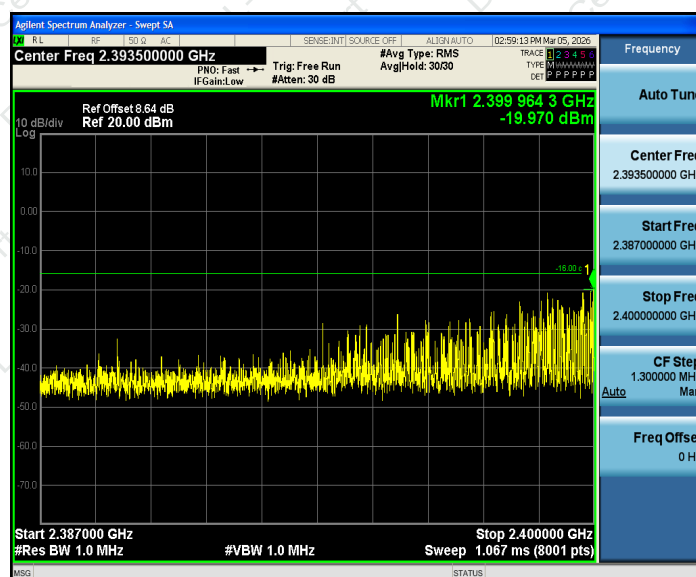
**CH 07:2442MHz - Frequency Band 3 ($2483.5 \text{ MHz} < f \leq 2496.5 \text{ MHz}$)****CH 07:2442MHz - Frequency Band 4 ($2496.5 \text{ MHz} \leq f < 13000 \text{ MHz}$)**

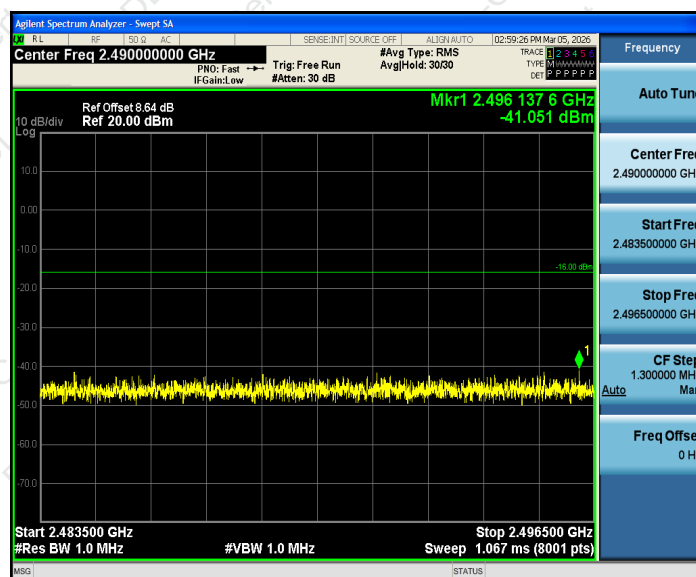
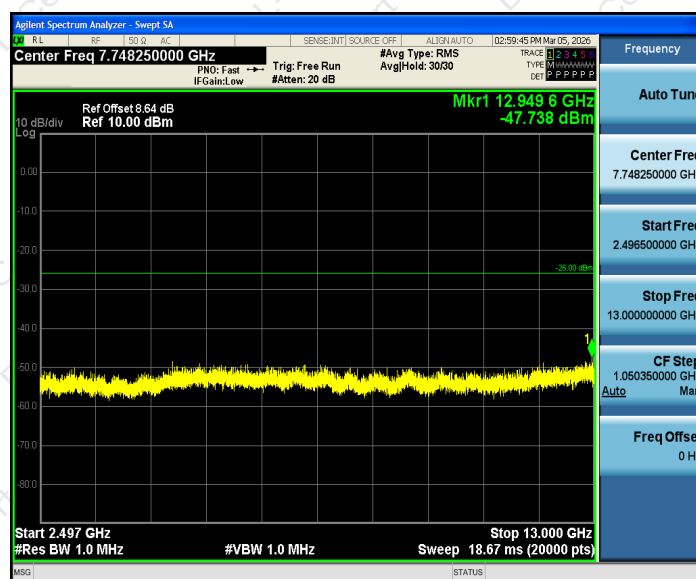
**CH 13:2472MHz - Frequency Band 1 (30 MHz $\leq$ f $\leq$ 2387 MHz)****CH 13:2472MHz - Frequency Band 2 (2387 MHz < f $\leq$ 2400 MHz)**

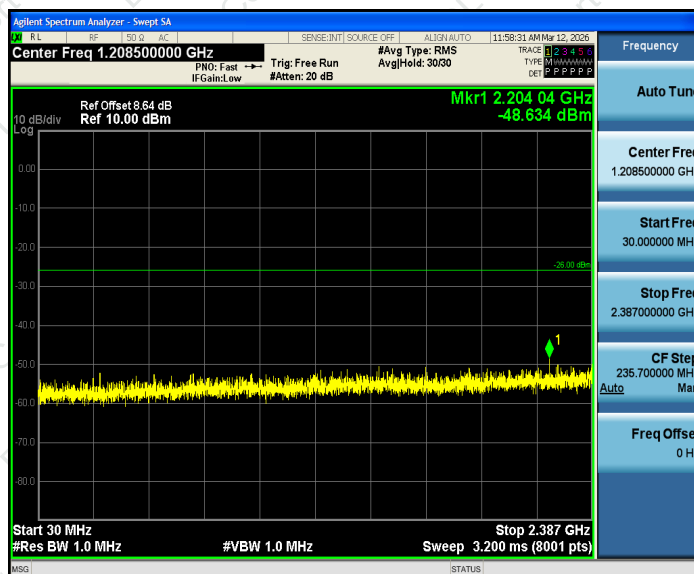
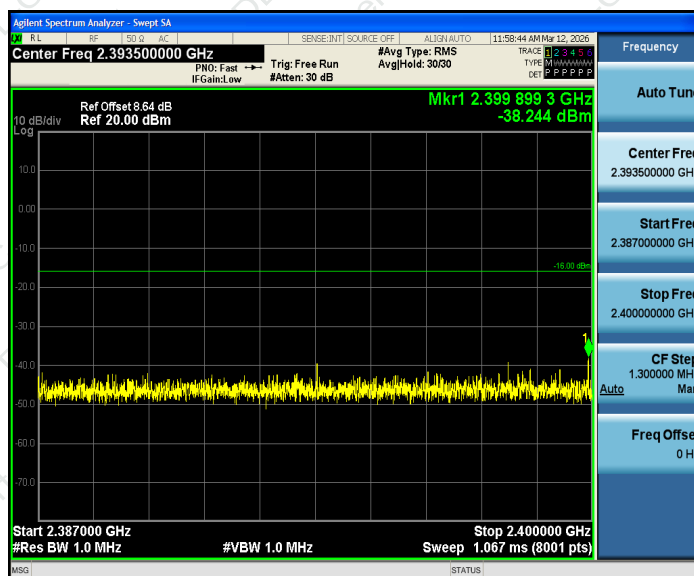
**CH 13:2472MHz - Frequency Band 3 ($2483.5 \text{ MHz} < f \leq 2496.5 \text{ MHz}$)****CH 13:2472MHz - Frequency Band 4 ($2496.5 \text{ MHz} \leq f < 13000 \text{ MHz}$)**

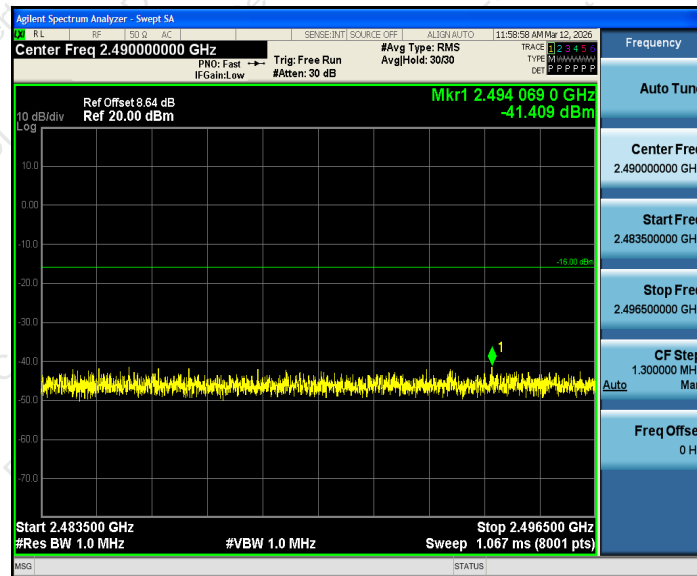
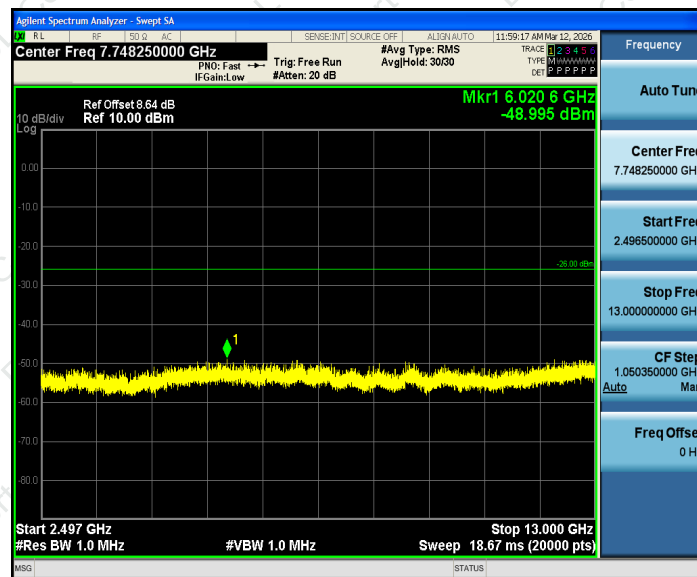


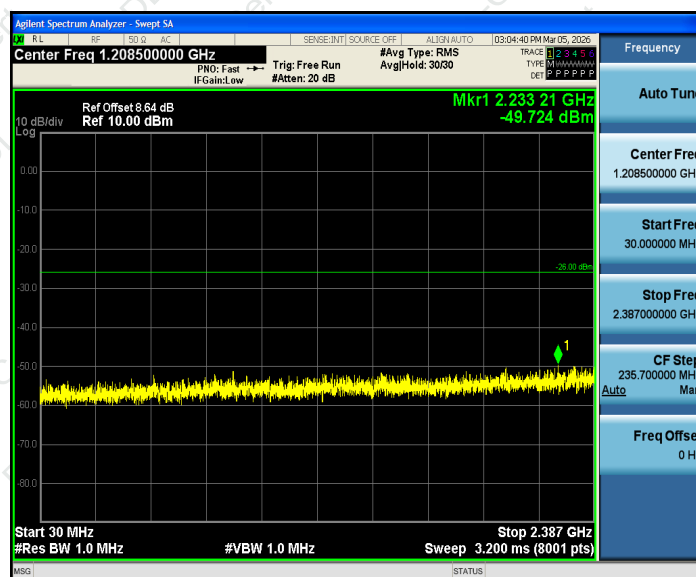
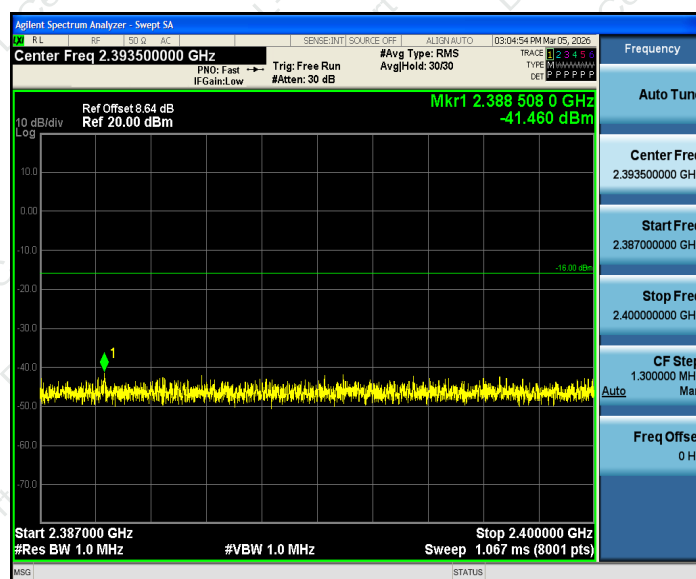
EUT:	Action Camera	Test Date:	Mar. 05, 2026
Temperature:	250C	Tested by:	Len Liao
Humidity:	55 % RH	Test Voltage	Normal Voltage
Operation Mode:	Normal Voltage-AX40 mode		

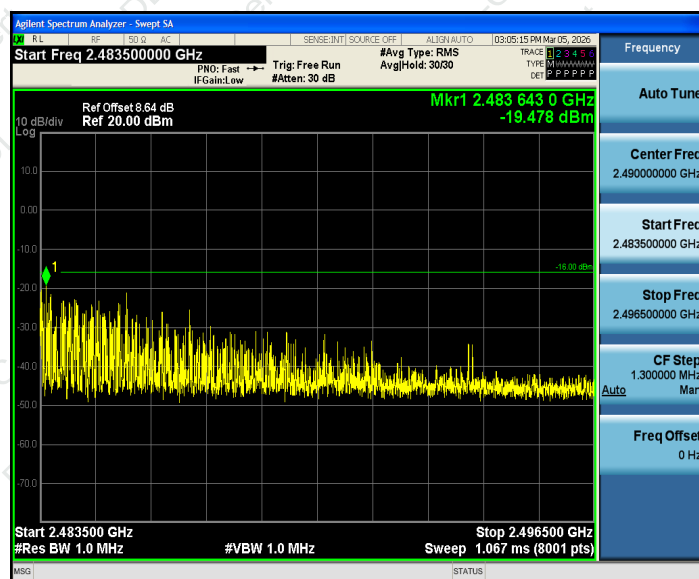
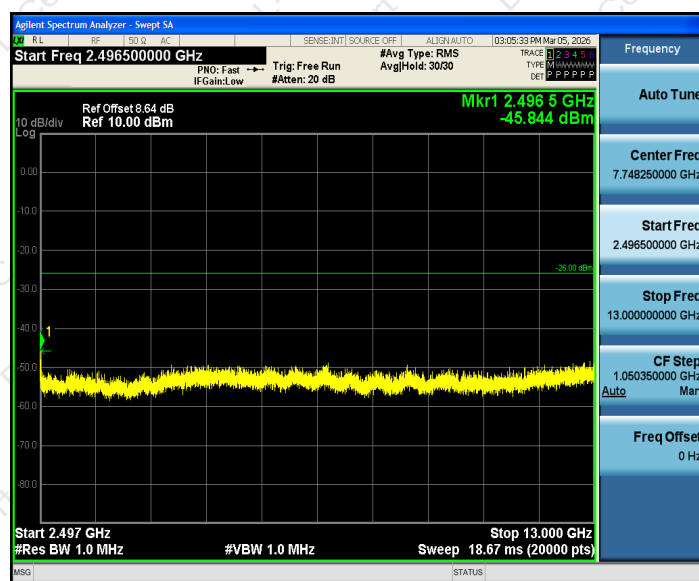
CH 03:2422MHz - Frequency Band 1 (30 MHz $\leq$ f $\leq$ 2387 MHz)**CH 03:2422MHz - Frequency Band 2 (2387 MHz < f $\leq$ 2400 MHz)**

**CH 03:2422MHz - Frequency Band 3 ($2483.5 \text{ MHz} < f \leq 2496.5 \text{ MHz}$)****CH 03:2422MHz - Frequency Band 4 ($2496.5 \text{ MHz} \leq f < 13000 \text{ MHz}$)**

**CH 07:2442MHz - Frequency Band 1 ($30 \text{ MHz} \leq f \leq 2387 \text{ MHz}$)****CH 07:2442MHz - Frequency Band 2 ($2387 \text{ MHz} < f \leq 2400 \text{ MHz}$)**

**CH 07:2442MHz - Frequency Band 3 ($2483.5 \text{ MHz} < f \leq 2496.5 \text{ MHz}$)****CH 07:2442MHz - Frequency Band 4 ($2496.5 \text{ MHz} \leq f < 13000 \text{ MHz}$)**

**CH 11:2462MHz - Frequency Band 1 (30 MHz $\leq$ f $\leq$ 2387 MHz)****CH 11:2462MHz - Frequency Band 2 (2387 MHz < f $\leq$ 2400 MHz)**

**CH 11:2462MHz - Frequency Band 3 ($2483.5 \text{ MHz} < f \leq 2496.5 \text{ MHz}$)****CH 11:2462MHz - Frequency Band 4 ($2496.5 \text{ MHz} \leq f < 13000 \text{ MHz}$)**



4.5 Imitation of Collateral Emission of Receiver Measurement

4.5.1 Limit

Item	Limits
RX Spurious Emission:	$\leq 4\text{nW}$ ($f < 1\text{GHz}$)
	$\leq 20\text{nW}$ ($1\text{GHz} \leq f$)

4.5.2 Measuring Instruments and Setting

Please refer to section 5 in this report. The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RB	100 kHz (below 1GHz emissions) 1 MHz (above 1GHz emissions)
VB	100 kHz (below 1GHz emissions) 1 MHz (above 1GHz emissions)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

4.5.3 Test Procedures

1. EUT have the continuous reception mode and fixed only one channelize.
2. Setting of SA is following as RB / VB: 100 kHz (below 1GHz emissions) / 1 MHz (Above 1GHz emissions) /
AT: 10dB / Ref: 0dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
3. SA set RB: 100kHz and VB: 100kHz. Then adjust to start frequency 30MHz and stop frequency 1000MHz. Search to mark peak reading value + cable loss shall be less than 4nW
4. SA set RB: 1MHz and VB: 1MHz. Then adjust to start frequency 1000MHz and stop frequency 12500MHz. Search to mark peak reading value + cable loss shall be less than 20nW
5. If power level of lower emissions are more than 1/10 of limit (.0.4nW for $f < 1\text{GHz}$, 2nW for $f \geq 1\text{GHz}$), all those are to be indicated in the 2nd and 3rd lines. If others are 1/10 or less more of the limit, no necessary to be indicated.



4.5.4 Test Result

EUT:	Action Camera	Test Date:	Mar. 04, 2026
Temperature:	25°C	Tested by:	Len Liao
Humidity:	55 % RH	Test Voltage	Normal Voltage
Operation Mode:	Normal Voltage		

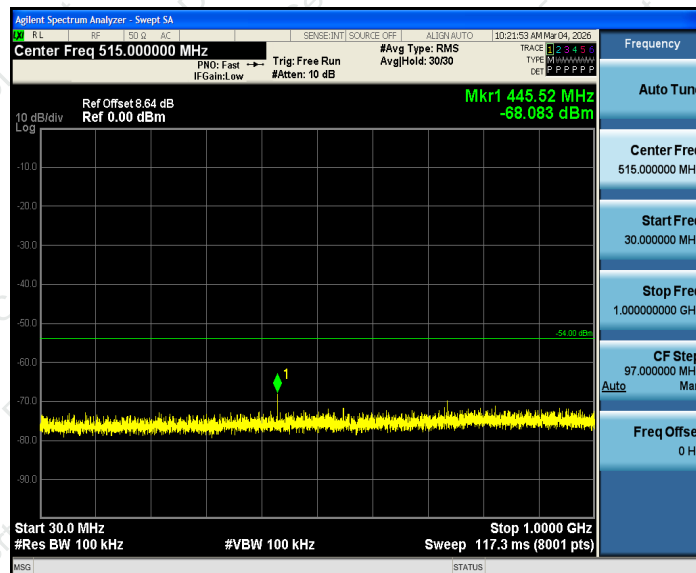
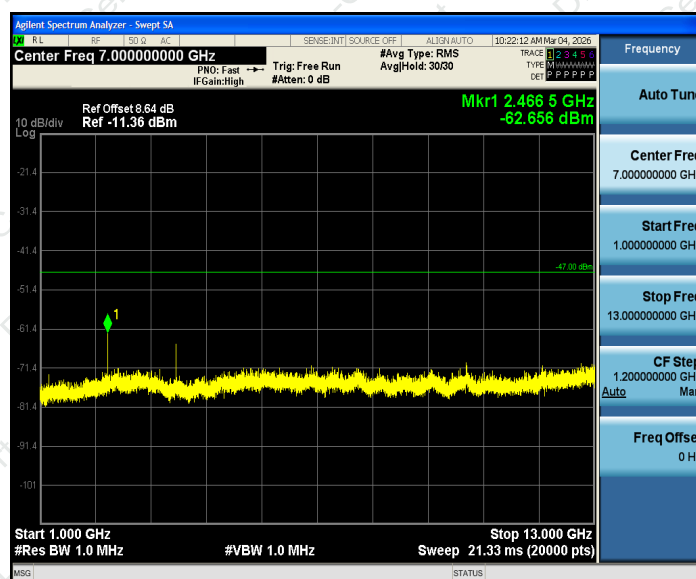
Test Mode	Test Channel	StartFre [MHz]	StopFre [MHz]	Mkr Fre [MHz]	Max.Level [dBm]	Max.Level [nW]	Limit[nW]	Verdict
802.11b	2412	30	1000	445.52	-68.08	0.1556	<4	PASS
802.11b	2412	1000	13000	2466.47	-62.66	0.5420	<20	PASS
802.11b	2442	30	1000	742.47	-67.81	0.1656	<4	PASS
802.11b	2442	1000	13000	3939.55	-66.06	0.2477	<20	PASS
802.11b	2472	30	1000	445.52	-68.70	0.1349	<4	PASS
802.11b	2472	1000	13000	3939.55	-66.59	0.2193	<20	PASS
802.11g	2412	30	1000	445.52	-68.89	0.1291	<4	PASS
802.11g	2412	1000	13000	3939.55	-66.24	0.2377	<20	PASS
802.11g	2442	30	1000	445.52	-68.78	0.1324	<4	PASS
802.11g	2442	1000	13000	3938.95	-66.14	0.2432	<20	PASS
802.11g	2472	30	1000	445.52	-68.33	0.1469	<4	PASS
802.11g	2472	1000	13000	3938.95	-66.36	0.2312	<20	PASS
802.11n(HT20)	2412	30	1000	445.52	-68.38	0.1452	<4	PASS
802.11n(HT20)	2412	1000	13000	3938.95	-65.87	0.2588	<20	PASS
802.11n(HT20)	2442	30	1000	445.52	-68.85	0.1303	<4	PASS
802.11n(HT20)	2442	1000	13000	3939.55	-66.28	0.2355	<20	PASS
802.11n(HT20)	2472	30	1000	445.52	-67.00	0.1995	<4	PASS
802.11n(HT20)	2472	1000	13000	5239.21	-66.16	0.2421	<20	PASS
802.11n(HT40)	2422	30	1000	445.52	-68.91	0.1285	<4	PASS
802.11n(HT40)	2422	1000	13000	3939.55	-66.01	0.2506	<20	PASS
802.11n(HT40)	2442	30	1000	445.52	-68.29	0.1483	<4	PASS
802.11n(HT40)	2442	1000	13000	3938.95	-66.51	0.2234	<20	PASS
802.11n(HT40)	2462	30	1000	445.52	-67.94	0.1607	<4	PASS
802.11n(HT40)	2462	1000	13000	3939.55	-65.66	0.2716	<20	PASS
802.1ax(HE20)	2412	30	1000	445.52	-68.78	0.1324	<4	PASS
802.1ax(HE20)	2412	1000	13000	2480.27	-54.96	3.1915	<20	PASS
802.1ax(HE20)	2442	30	1000	445.52	-68.49	0.1416	<4	PASS
802.1ax(HE20)	2442	1000	13000	3939.55	-63.78	0.4188	<20	PASS
802.1ax(HE20)	2472	30	1000	445.52	-68.48	0.1419	<4	PASS



802.1ax(HE20)	2472	1000	13000	3939.55	-63.40	0.4571	<20	PASS
802.1ax(HE40)	2422	30	1000	445.52	-69.33	0.1167	<4	PASS
802.1ax(HE40)	2422	1000	13000	3938.95	-64.37	0.3656	<20	PASS
802.1ax(HE40)	2442	30	1000	445.52	-68.07	0.1560	<4	PASS
802.1ax(HE40)	2442	1000	13000	2442.47	-52.62	5.4702	<20	PASS
802.1ax(HE40)	2462	30	1000	445.52	-68.90	0.1288	<4	PASS
802.1ax(HE40)	2462	1000	13000	3939.55	-63.99	0.3990	<20	PASS

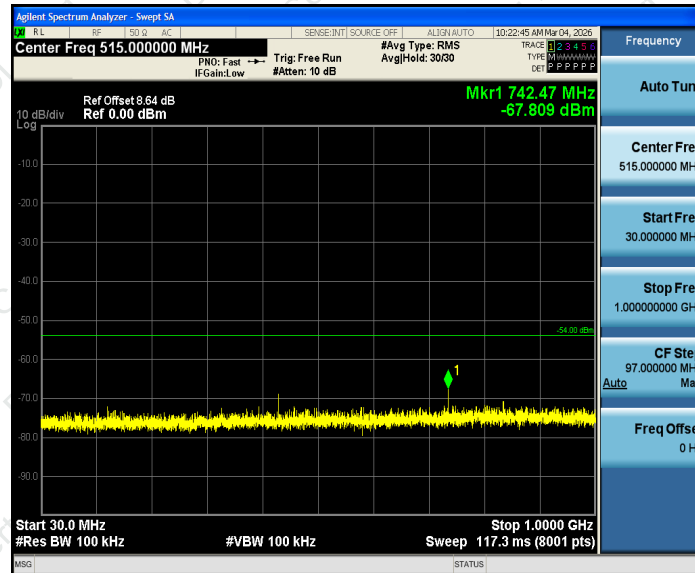
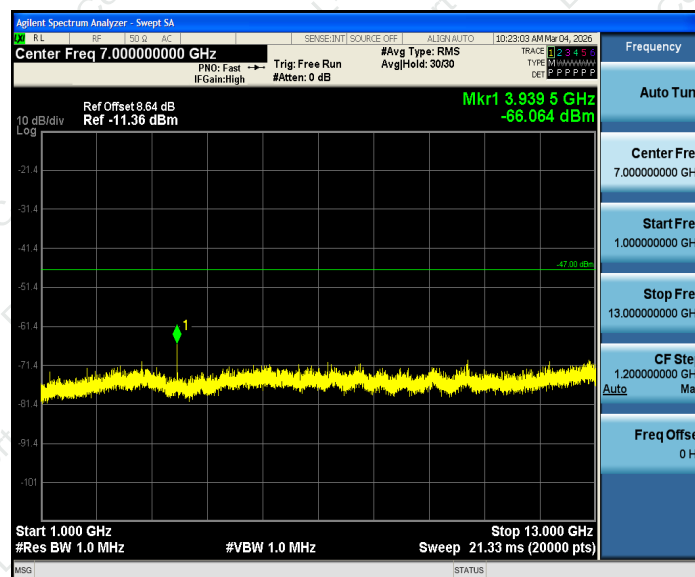


802.11 B 2412MHz

RX-Frequency Band 1 ($30 \text{ MHz} \leq f < 1000 \text{ MHz}$)RX-Frequency Band 2 ($1000 \text{ MHz} \leq f < 13000 \text{ MHz}$)

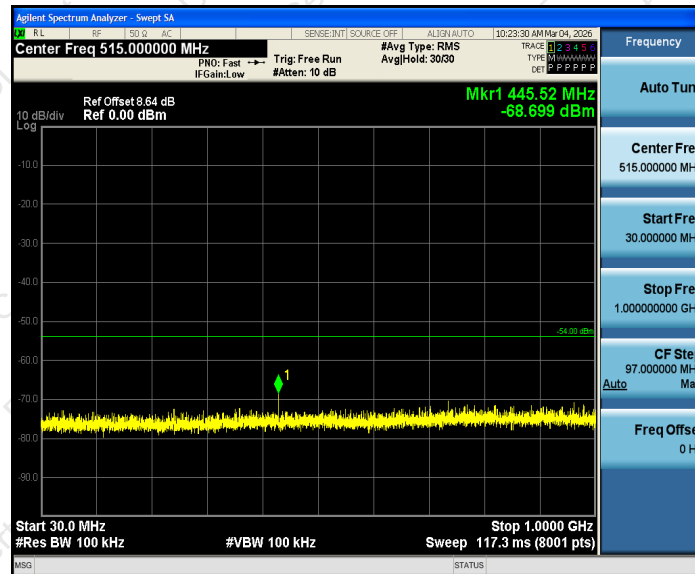
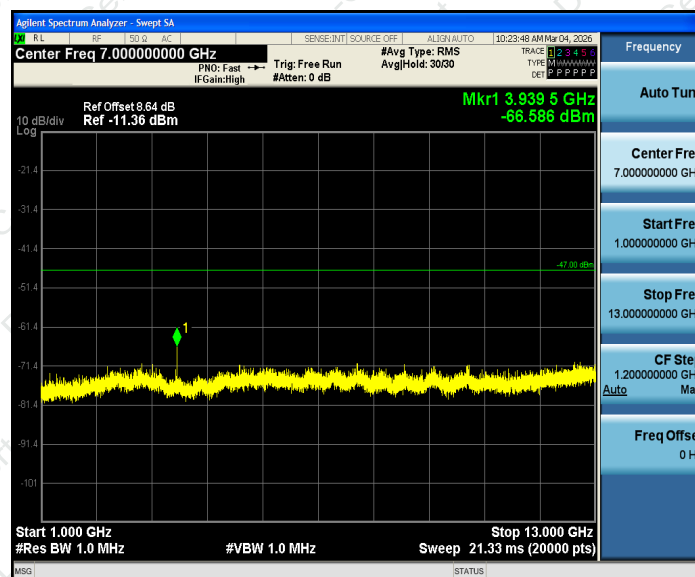


802.11 B 2442MHz

RX-Frequency Band 1 (30 MHz $\leq f < 1000$ MHz)RX-Frequency Band 2 (1000 MHz $\leq f < 13000$ MHz)

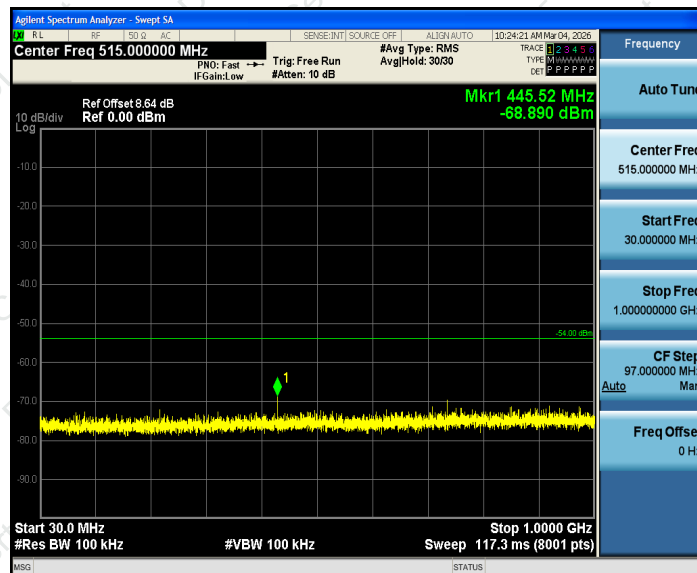
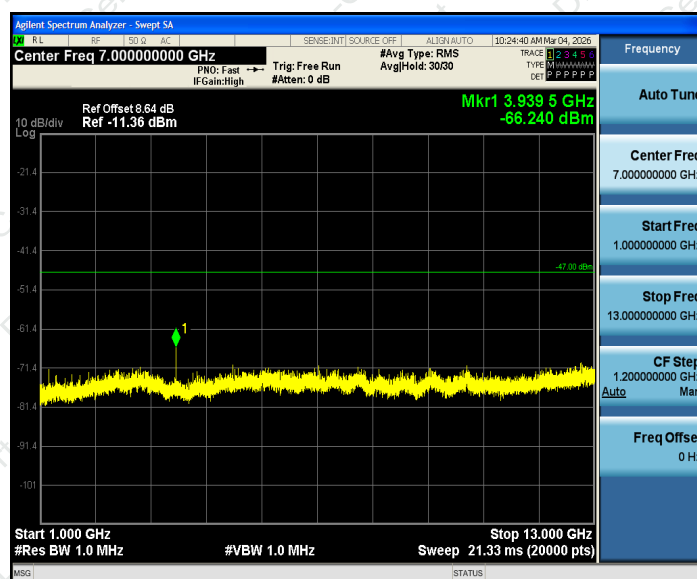


802.11 B 2472MHz

RX-Frequency Band 1 ($30 \text{ MHz} \leq f < 1000 \text{ MHz}$)RX-Frequency Band 2 ($1000 \text{ MHz} \leq f < 13000 \text{ MHz}$)

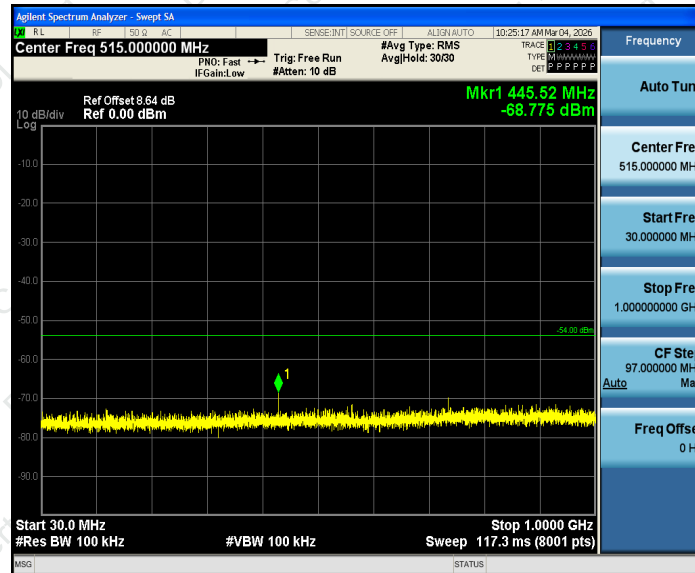
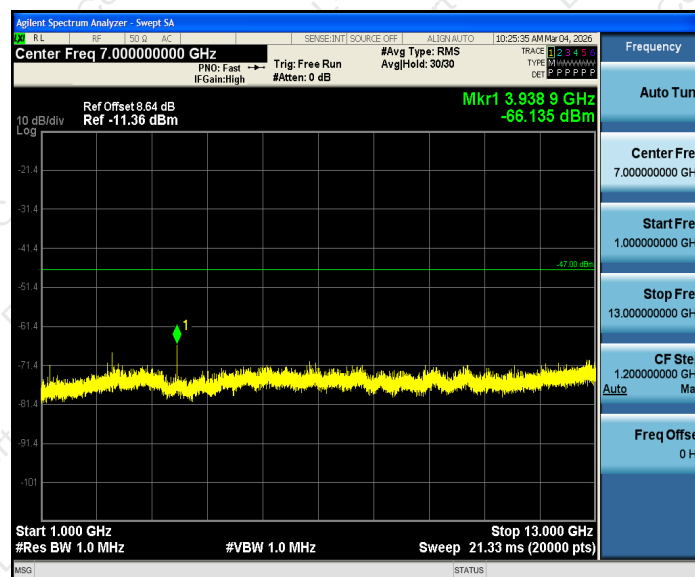


802.11 G 2412MHz

RX-Frequency Band 1 ($30 \text{ MHz} \leq f < 1000 \text{ MHz}$)RX-Frequency Band 2 ($1000 \text{ MHz} \leq f < 13000 \text{ MHz}$)

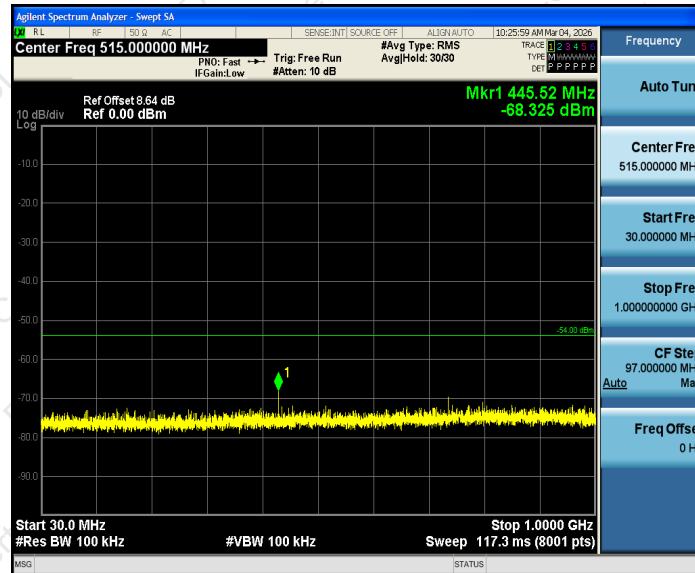
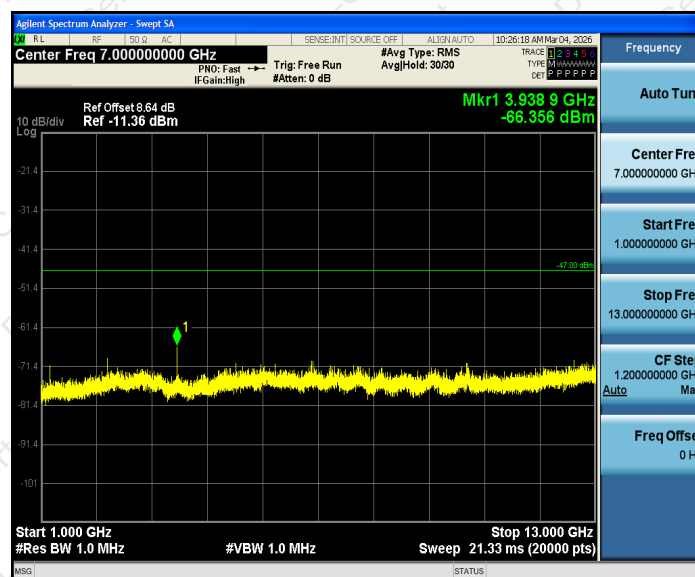


802.11 G 2442MHz

RX-Frequency Band 1 (30 MHz $\leq f < 1000$ MHz)RX-Frequency Band 2 (1000 MHz $\leq f < 13000$ MHz)

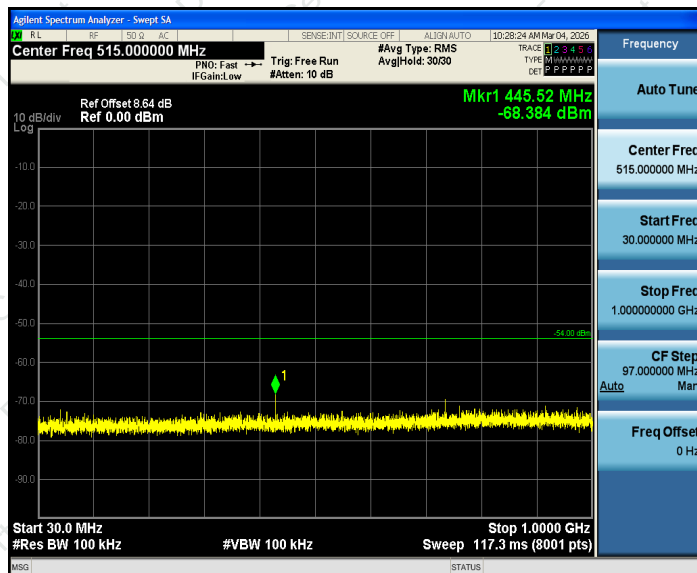
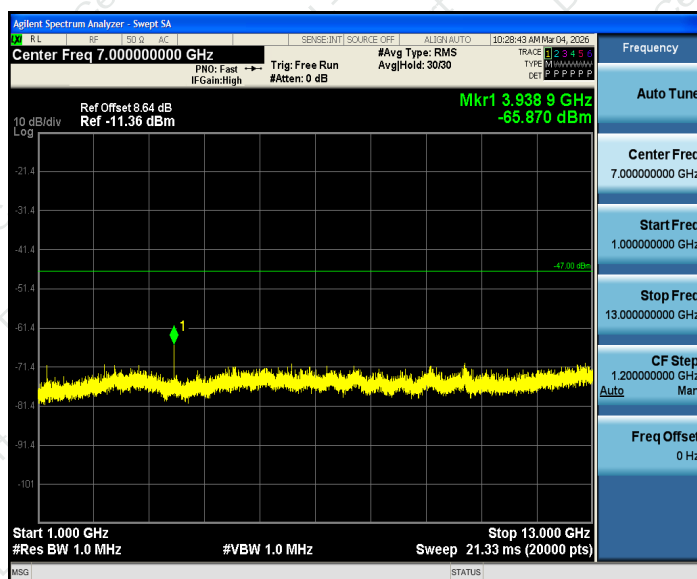


802.11 G 2472MHz

RX-Frequency Band 1 ($30 \text{ MHz} \leq f < 1000 \text{ MHz}$)RX-Frequency Band 2 ($1000 \text{ MHz} \leq f < 13000 \text{ MHz}$)

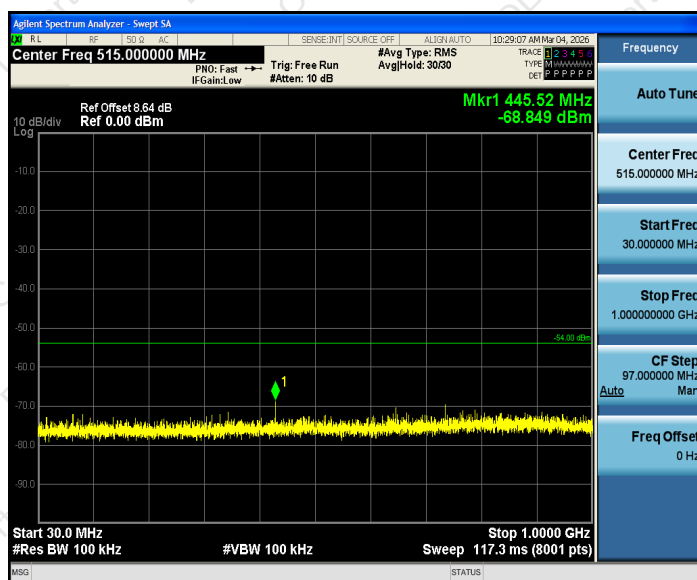
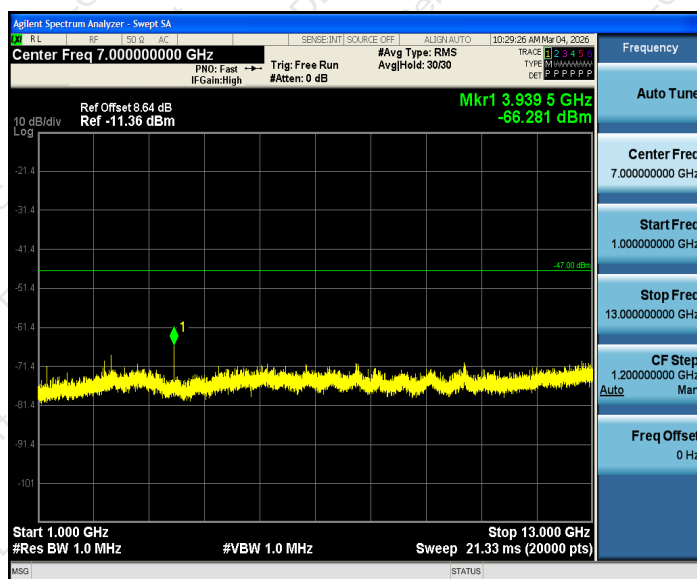


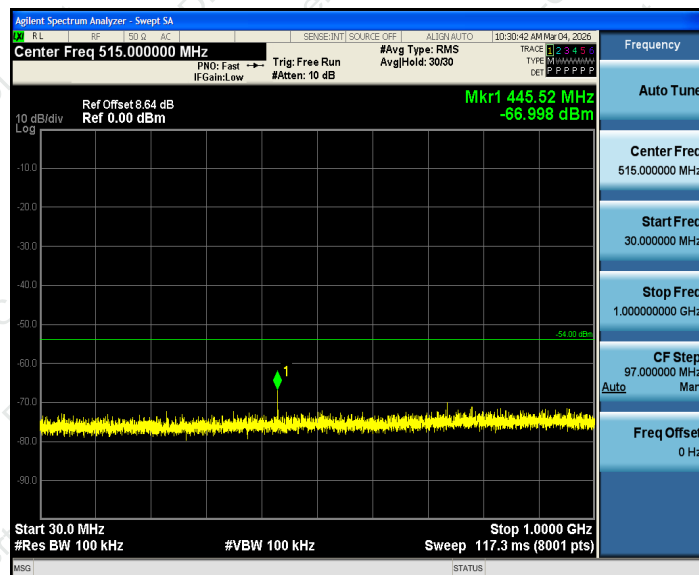
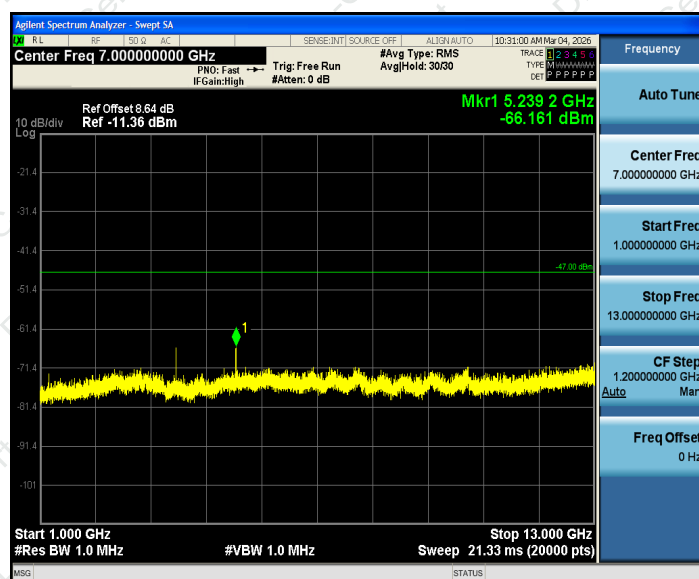
802.11 N20 2412MHz

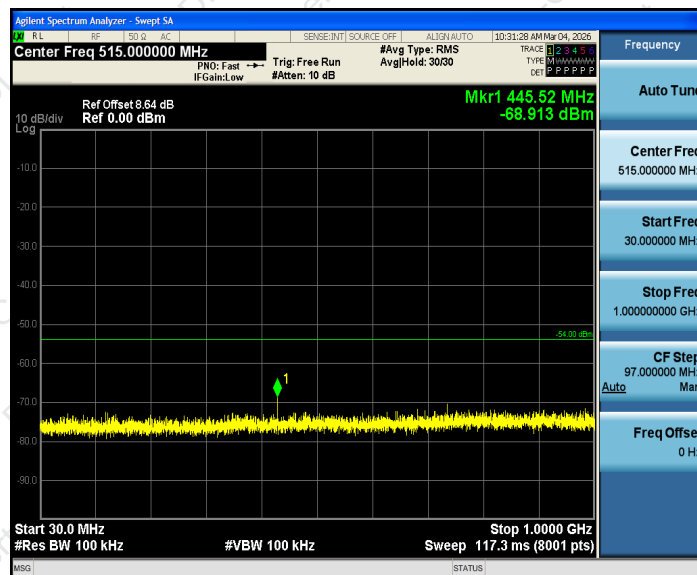
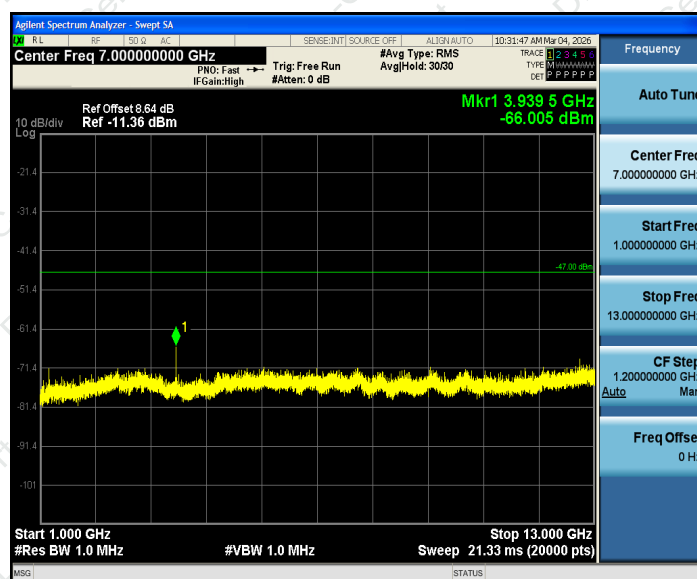
RX-Frequency Band 1 (30 MHz $\leq f < 1000$ MHz)RX-Frequency Band 2 (1000 MHz $\leq f < 13000$ MHz)

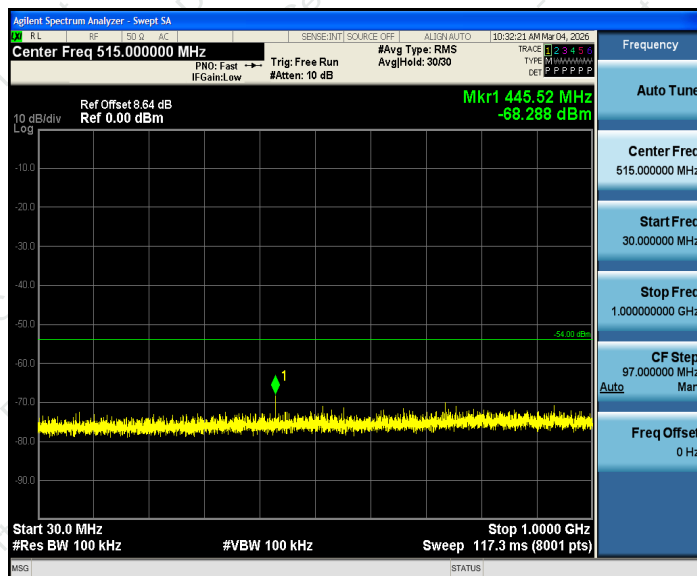
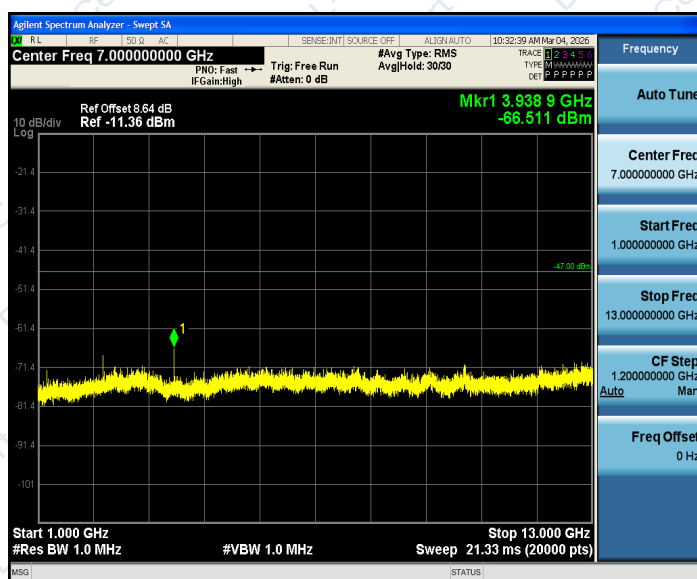


802.11 N20 2442MHz

RX-Frequency Band 1 (30 MHz $\leq f < 1000$ MHz)RX-Frequency Band 2 (1000 MHz $\leq f < 13000$ MHz)

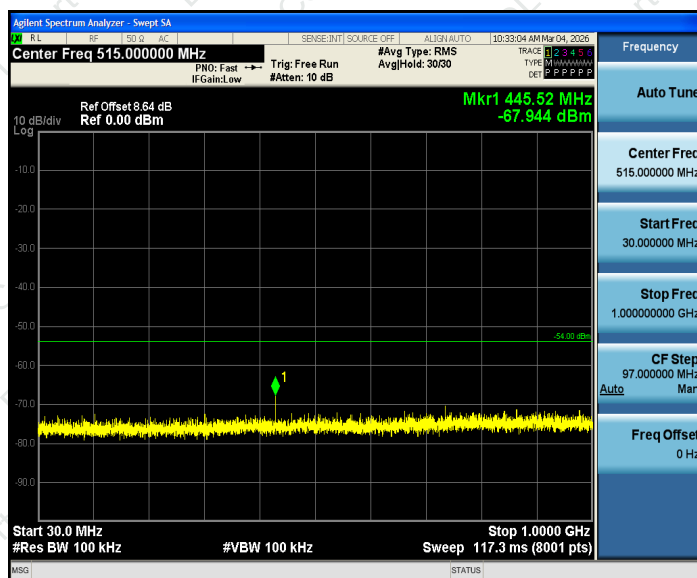
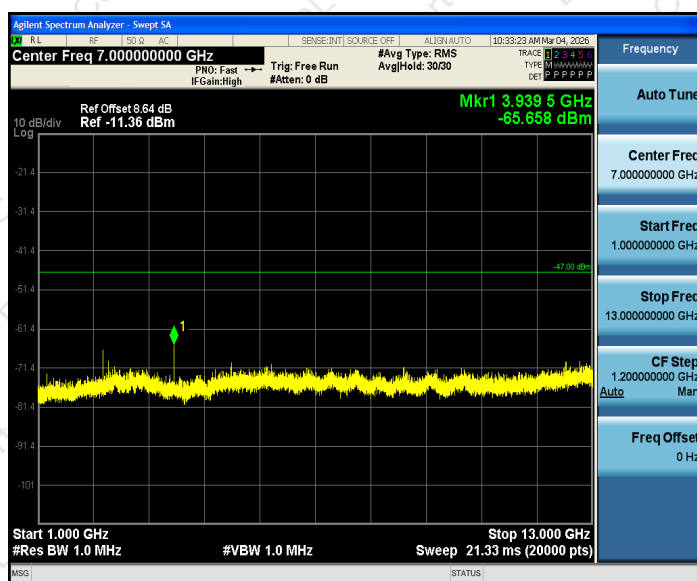
**802.11 N20 2472MHz****RX-Frequency Band 1 ($30 \text{ MHz} \leq f < 1000 \text{ MHz}$)****RX-Frequency Band 2 ($1000 \text{ MHz} \leq f < 13000 \text{ MHz}$)**

**802.11 N40 2422MHz****RX-Frequency Band 1 ($30\text{ MHz} \leq f < 1000\text{ MHz}$)****RX-Frequency Band 2 ($1000\text{ MHz} \leq f < 13000\text{ MHz}$)**

**802.11 N40 2442MHz****RX-Frequency Band 1 (30 MHz $\leq f < 1000$ MHz)****RX-Frequency Band 2 (1000 MHz $\leq f < 13000$ MHz)**

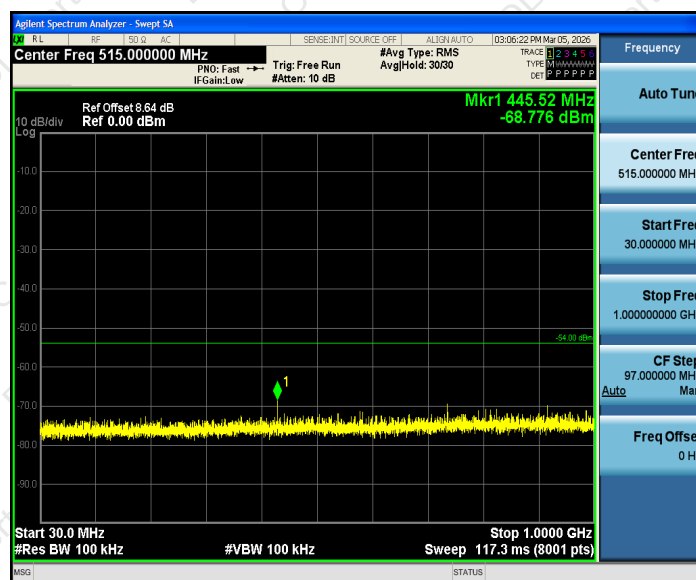
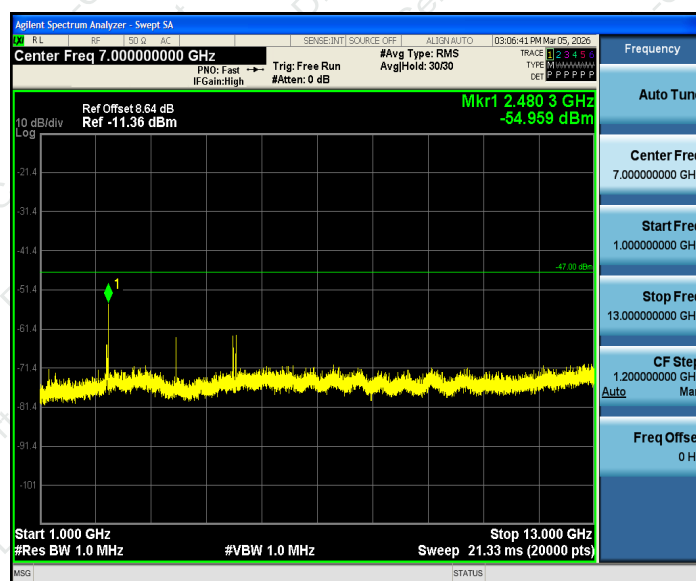


802.11 N40 2462MHz

RX-Frequency Band 1 ($30 \text{ MHz} \leq f < 1000 \text{ MHz}$)RX-Frequency Band 2 ($1000 \text{ MHz} \leq f < 13000 \text{ MHz}$)

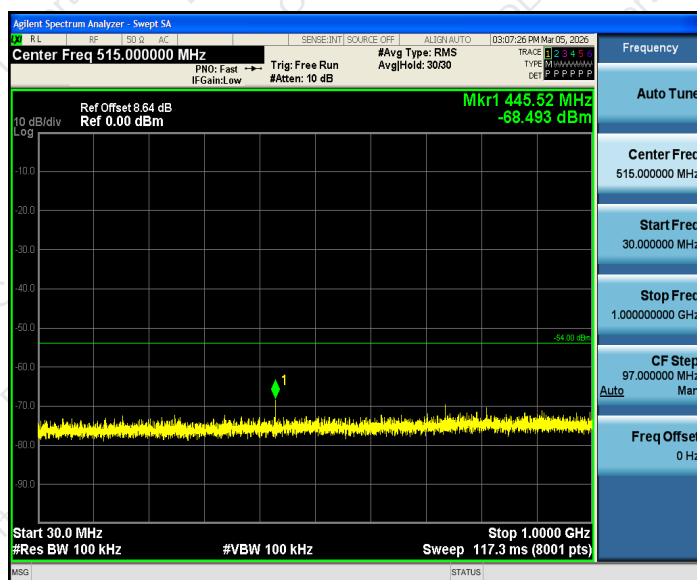
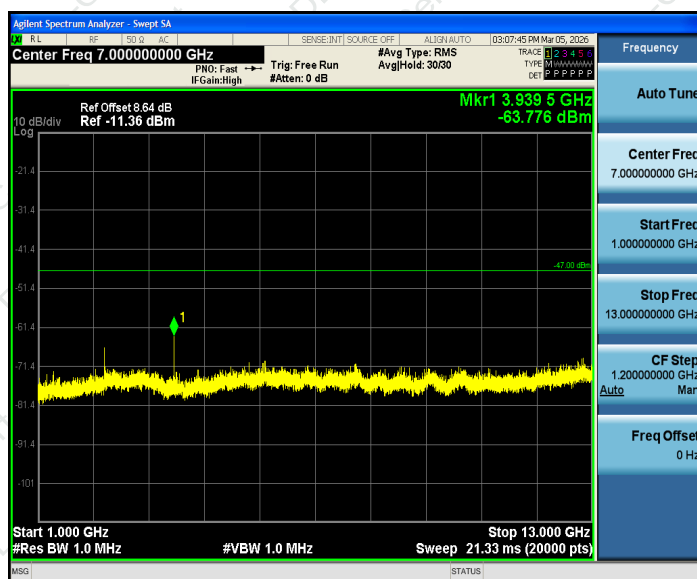


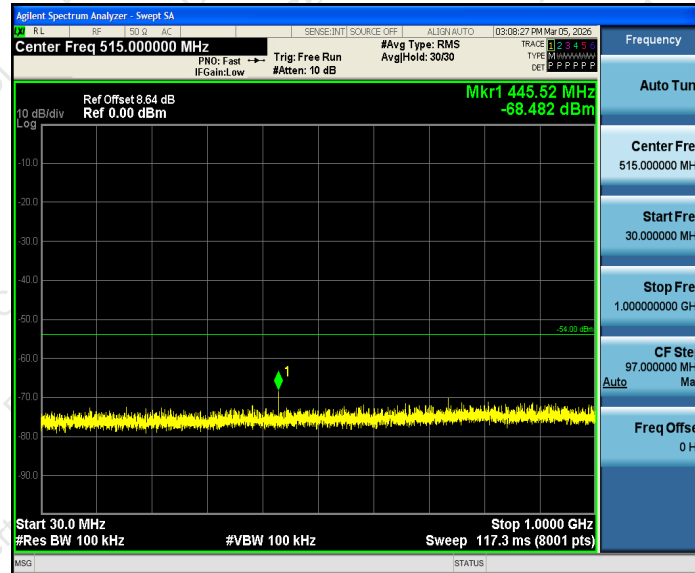
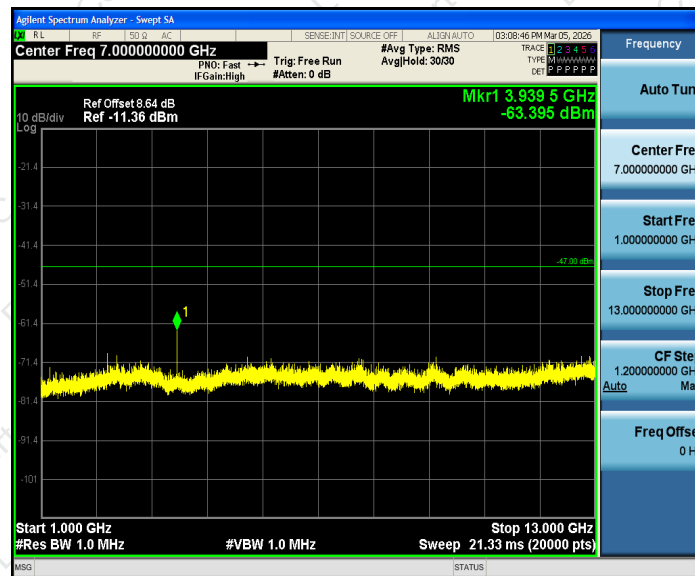
802.11 AX20 2412MHz

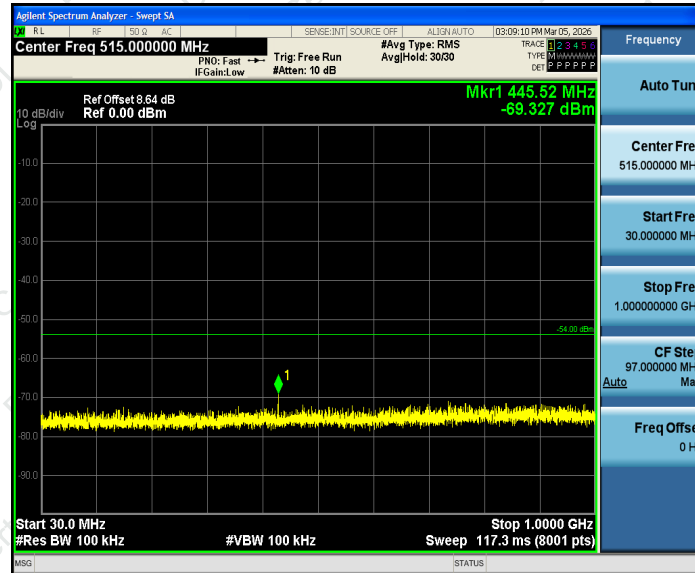
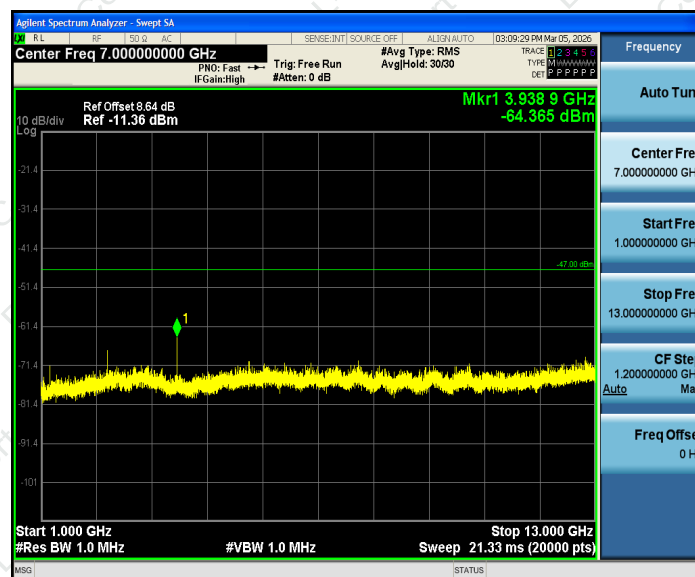
RX-Frequency Band 1 (30 MHz $\leq f < 1000$ MHz)RX-Frequency Band 2 (1000 MHz $\leq f < 13000$ MHz)



802.11 AX20 2442MHz

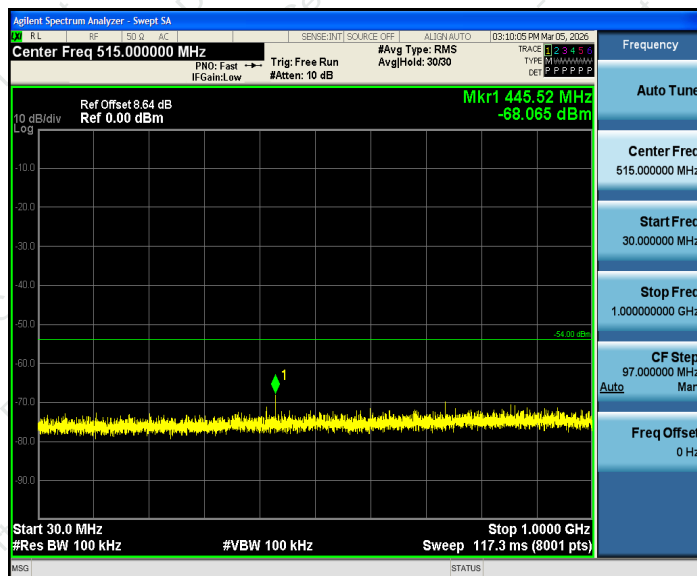
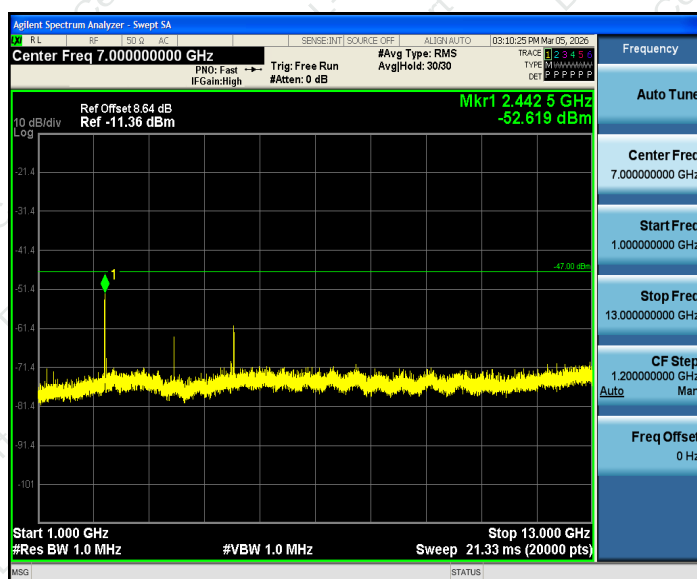
RX-Frequency Band 1 ($30 \text{ MHz} \leq f < 1000 \text{ MHz}$)RX-Frequency Band 2 ($1000 \text{ MHz} \leq f < 13000 \text{ MHz}$)

**802.11 AX20 2472MHz****RX-Frequency Band 1 (30 MHz $\leq f < 1000$ MHz)****RX-Frequency Band 2 (1000 MHz $\leq f < 13000$ MHz)**

**802.11 AX40 2422MHz****RX-Frequency Band 1 (30 MHz $\leq f < 1000$ MHz)****RX-Frequency Band 2 (1000 MHz $\leq f < 13000$ MHz)**

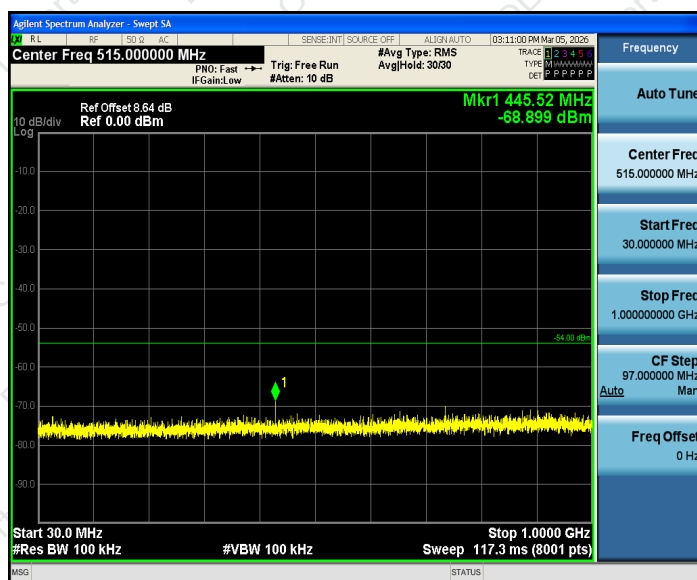
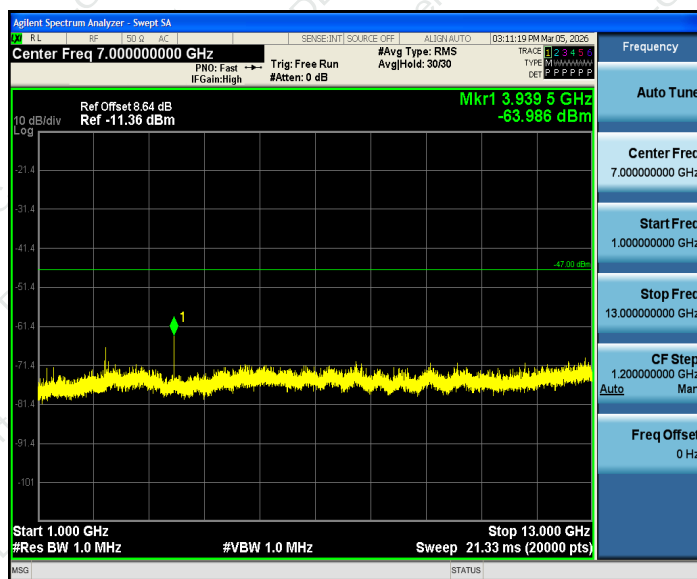


802.11 AX40 2442MHz

RX-Frequency Band 1 (30 MHz $\leq f < 1000$ MHz)RX-Frequency Band 2 (1000 MHz $\leq f < 13000$ MHz)



802.11 AX40 2462MHz

RX-Frequency Band 1 (30 MHz $\leq f < 1000$ MHz)RX-Frequency Band 2 (1000 MHz $\leq f < 13000$ MHz)



4.6 Transmission Antenna Gain (EIRP Antenna Power) Measurement

4.6.1 Limit

Item	Limits
EIRP Power Density	$\leq 16.91\text{dBm/MHz}$ (FH form 2427 - 2470.75 MHz) $\leq 22.14\text{dBm/MHz}$ (OFDM,DS from 2400~2483.5MHz) $\leq 22.14\text{dBm}$ (Other from 2400~2483.5MHz)
Note: This test item is not applied for radio equipment with equivalent isotropic radiation power lower than 12.14dBm/MHz, but Antenna Power(Conducted) limit is 10 mW/MHz (10 dBm/MHz), So the test item will not be applied to the transmission antenna which has a gain of 2.14dBi or less	

4.6.2 Measuring Instruments and Setting

Please refer to section 5 in this report. The following table is the setting of spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RB/VB	1 MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

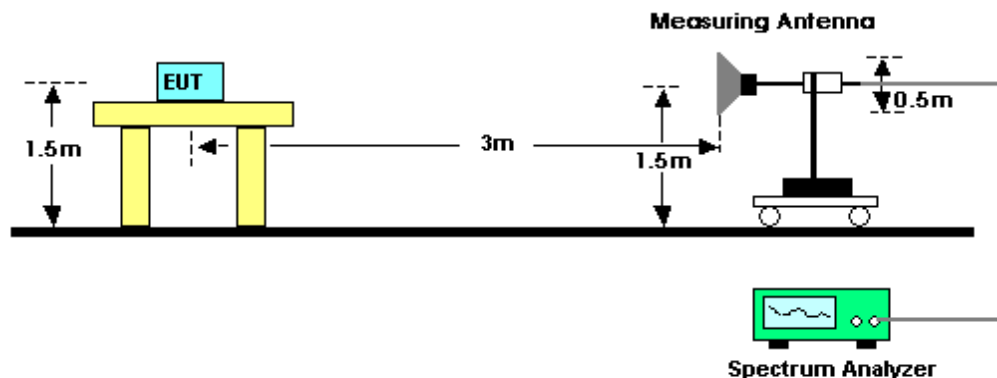
4.6.3 Test Procedures

1. Set EUT ad measuring antenna at the same height and roughly facing each other.
2. Move the measuring antenna height up and down within $\pm 50\text{cm}$ of EUT height and swing it to find the maximum output of the measuring antenna. The output level at the spectrum analyzer is read sa "E".
3. Remove the EUT from the turn table and put the replacing antenna facing to measuring antenna at same height. Set the standard signal generator (SSG) at same frequency and transmit on then receive the signal
4. Swing the replacing antenna give a maximum receiving level.
5. Move the measuring antenna height up and down within $\pm 50\text{cm}$ of replacing antenna height and swing it to find the maximum receiving level.
6. Set SSG output power at Pt to give the equivalent output level of "E" or caluate Pt with SSG output which gives the nearest of "E" and difference ($\pm 1\text{dB}$). Record the Pt.
7. Calculate EIRP by the formula below $\text{EIRP} = G_t - L + P_t$.
Gt: gain of replacing antenna (dBi)
L: feeder loss between SSG and replacing antenna
Pt: Output power of the SSG
8. If the antenna for the EUT has circular polarization, sum of V-field and H-field will be result if measuring antenna is linear polarization.

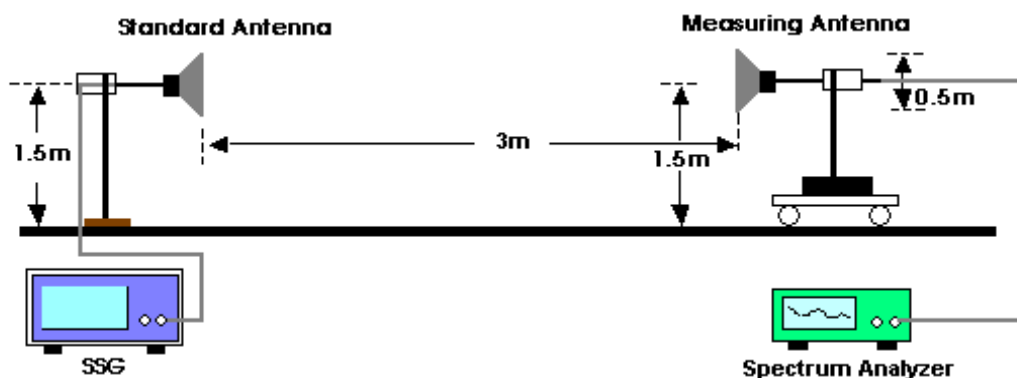


4.6.4 Test Setup Layout

For EUT radiation measurement



For standard antenna measurement



4.6.5 Test Deviation

There is no deviation with the original standard.

4.6.6 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.6.7 Results of Transmission Antenna Gain

Note: This test item will not be applied to the transmission antenna which has a gain of 2.14dBi or less.



4.7 Transmission Radiation Angle Width (3dB Beam width) Measurement

4.7.1 Limit

Item	Limits
3dB antenna beam width	$360/A$ (If $A < 1$; then $A = 1$) $A = \{\text{EIRP Power [mW]} / 16.36 \text{ for DS, OFDM}\}$ or $A = \{\text{EIRP Power [mW]} / 4.9 \text{ for FH}\}$
Note: This test item is not applied for radio equipment with equivalent isotropic radiation power lower than 12.14dBm/MHz, but Antenna Power(Conducted) limit is 10 mW/MHz (10 dBm/MHz), So the test item will not be applied to the transmission antenna which has a gain of 2.14dBi or less	

4.7.2 Measuring Instruments and Setting

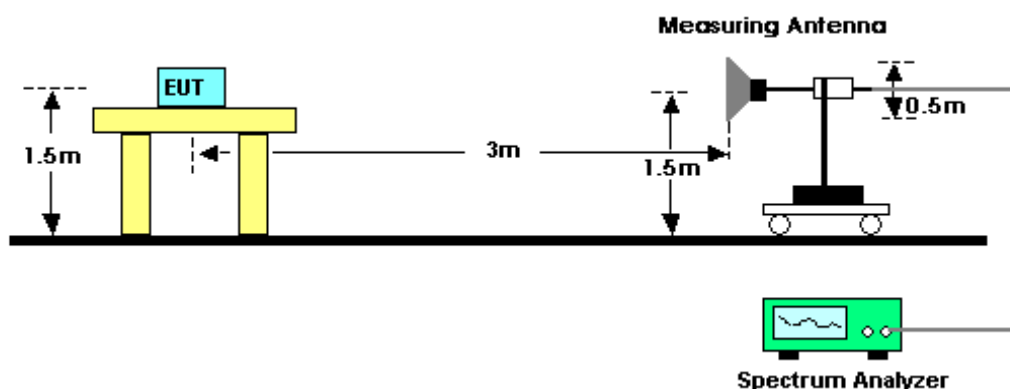
Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	0 MHz
RB	1 MHz
VB	1 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

4.7.3 Test Procedures

1. Set EUT and measuring antenna at the same height and roughly facing each other.
2. Set spectrum analyzer with condition in section 4.7.2 and tune reference level to observe receiving signal position.
3. Rotate directions of the EUT horizontally and vertically to find the maximum receiving power.
4. Move the measuring antenna height up and down within $\pm 50\text{cm}$ of EUT height and swing it to find the maximum output of measuring antenna. The output level at the spectrum analyzer is read as "E"
5. Calculate permitted radiation angle in horizontal and vertical using EIRP measured in another test method.
6. Calculate 3dB antenna beam width by the formula below $360/A$ (If $A < 1$; then $A = 1$).
 $A = \{\text{EIRP Power [mW]} / 16.36 \text{ for DS, OFDM}\}$ or
 $A = \{\text{EIRP Power [mW]} / 4.9 \text{ for FH}\}$



4.7.4 Test Setup Layout



4.7.5 Test Deviation

There is no deviation with the original standard.

4.7.6 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.7.7 Test Result of Transmission Radiation Angle Width (3dB Beam width)

Note: This test item will not be applied to the transmission antenna which has a gain of 2.14dBi or less.



4.8 Radio Interference Prevention Capability Measurement

4.8.1 Limit

Item	Limits
Identification code	≥ 48 bits

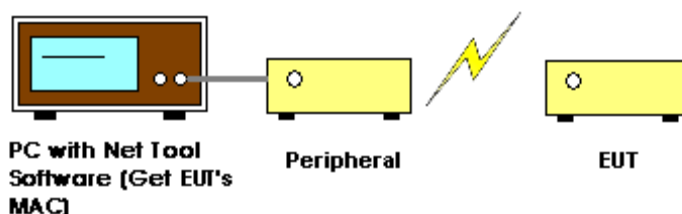
4.8.2 Measuring Id Code Software

Item	Limits
MAC IP List	MAC Scan

4.8.3 Test Procedures

- In the case that the EUT has the function of automatically transmitting the identification code:
 - Transmit the predetermined identification codes from EUT.
 - Check the transmitted identification codes with the demodulator.
- In the case of receiving the identification code:
 - Transmit the predetermined identification codes from the counterpart.
 - Check if communication is normal.
 - Transmit the signals other than predetermined ID codes from the counterpart. d. check if the EUT stops the transmission, or if it displays that identification codes are different from the predetermined ones.

4.8.4 Test Setup Layout



4.8.5 Test Deviation

There is no deviation with the original standard.

4.8.6 EUT Operation during Test

The EUT was programmed to be in normal transmitting mode.

4.8.7 Test Result of Radio Interference Prevention Capability

EUT:	Action Camera	Test Date:	Mar. 12, 2026
Temperature:	25°C	Tested by:	Len Liao
Humidity:	55 % RH		
Test Result:	CONFORM (MAC IP LIST:1C:4E:A2:E9:68:E8)		



4.9 Carrier Sensing Function

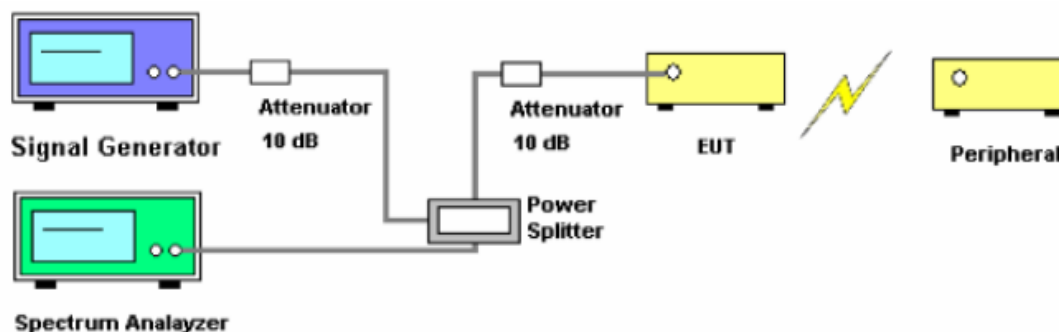
4.9.1 Test Requirement

MIC Notice No.88 Appendix No.43

Article 2, Paragraph 1, Item 19 Rules Section 10

4.9.2 Block Diagram of Test Setup

❖ Measurement System Diagram



❖ Conditions of Application Equipment (EUT)

- The EUT state shall be “normal mode link with wireless router”.

4.9.3 Test Procedure

1. SG adjusted the frequency as same as the EUT transmitted signal and emitted the absence of modulation from SG and power level is (on $22.79 + G - 20 \cdot \log(f) \text{ dBm}$) (G is the antenna gain, f is the test frequency).
2. Turn off the RF signal of the SG.
3. EUT have transmitted the maximum modulation signal and fixed channelize.
4. Setting of SA: RBW/VBW=1MHz/1MHz, Span=50MHz, Sweep time=auto, Sweep mode=continuous, Detect mode=positive peak
5. SG RF signal on.
6. EUT shall be stop the transmitted any signal and SG RF signal off, the EUT will be continuous



4.9.4 Test Result

EUT:	Action Camera	Test Date:	Mar. 12, 2026
Temperature:	25 ⁰ C	Tested by:	Len Liao
Humidity:	55 % RH		
Test Result:	CONFORM for IEE 802.11 N/HT40		
Note: The Action Camera cannot transmit radio when the field strength at maximal gain direction of receiving antenna power is over 100mV/m; and The Tablet can start to transmit after carrier sensing.			

4.9.5. Number of Carriers

Limit

The number of Carriers: 1 or more/MHz

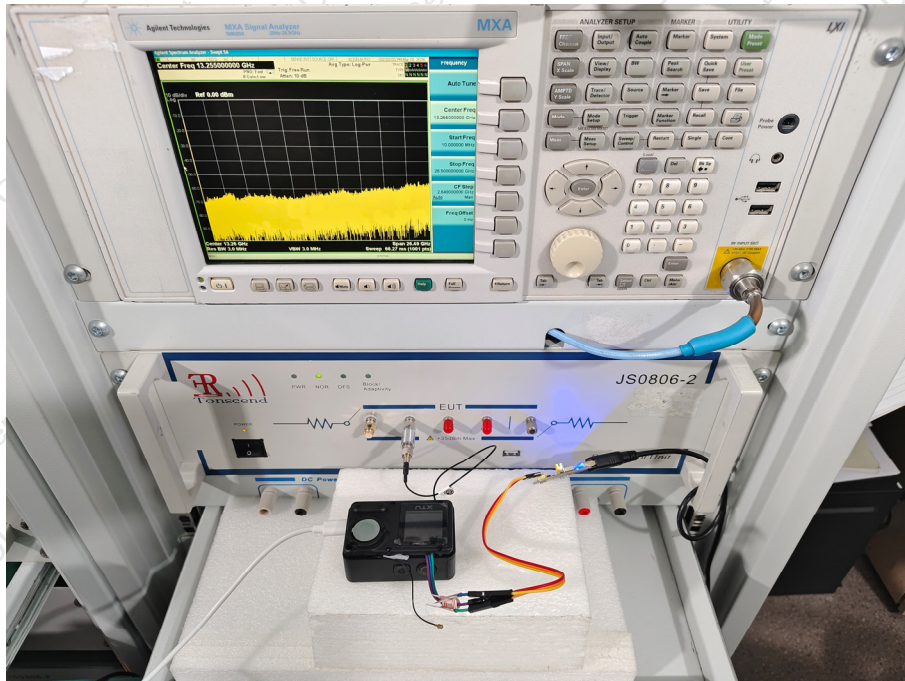
Test Results

This device has more than 1 subcarrier in 1MHz, compliances with the requirement



5. Test Setup Photos of the EUT

Measurement Photos





6. Photos of the EUT

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos

-----End of test report-----