

FCC Test Report

**Test report
On Behalf of
Shenzhen Haimeilan Technology Co., LTD.
For
Smart Phone**

**Model No.: I16 Pro max, AE01, AE02, AE03, AE04, AE05, AE06,
AE07, AE08, AE09, AE10, AE11, AE12, AE13, AE14, AE15, AE16,
AE17, AE18, AE19, AE20, FA01, FA02, FA03, FA04, FA05, FA06,
FA07, FA08, FA09, FA10, FA11, FA12, FA13, FA14, FA15, FA16,
FA17, FA18, FA19, FA20, Viral11, Alpha10 Pro, Zero 5 neo, Echo8
Se, S26 Ultra, Pixel 9, SP30 Pro, MT Ultimate, M15 pro**

FCC ID: 2BDI3-V

Prepared For : Shenzhen Haimeilan Technology Co., LTD.

**9V777, East 9th Floor, Building 2, SEG Science Park, Huaqiang North Street,
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Prepared By : Shenzhen HUAKE Testing Technology Co., Ltd.

**1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping,
Fuhai Street, Bao'an District, Shenzhen, Guangdong, China**

Date of Test: Feb. 20, 2025 ~ Apr. 18, 2025

Date of Report: Apr. 18, 2025

Report Number: HK2502080444-2E

Test Result Certification

Applicant's name: Shenzhen Haimeilan Technology Co., LTD.
Address: 9V777, East 9th Floor, Building 2, SEG Science Park, Huaqiang
North Street, Futian District, Shenzhen, 518000 China

Manufacturer's Name: Shenzhen Haimeilan Technology Co., LTD.
Address: 9V777, East 9th Floor, Building 2, SEG Science Park, Huaqiang
North Street, Futian District, Shenzhen, 518000 China

Product description

Trade Mark: N/A

Product name.....: Smart Phone

Model and/or type reference ..: I16 Pro max, AE01, AE02, AE03, AE04, AE05, AE06, AE07, AE08,
AE09, AE10, AE11, AE12, AE13, AE14, AE15, AE16, AE17, AE18,
AE19, AE20, FA01, FA02, FA03, FA04, FA05, FA06, FA07, FA08,
FA09, FA10, FA11, FA12, FA13, FA14, FA15, FA16, FA17, FA18,
FA19, FA20, Viral11, Alpha10 Pro, Zero 5 neo, Echo8 Se, S26
Ultra, Pixel 9, SP30 Pro, MT Ultimate, M15 pro

Standards: FCC Rules and Regulations Part 15 Subpart E Section 15.407
ANSI C63.10: 2013

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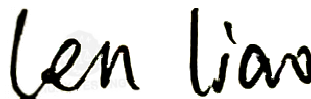
Date of Test.....:

Date (s) of performance of tests: Feb. 20, 2025 ~ Apr. 18, 2025

Date of Issue.....: Apr. 18, 2025

Test Result.....: Pass

Testing Engineer



Len Liao

Technical Manager



Sliver Wan

Authorized Signatory



Jason Zhou

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**** Modified History ****

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Apr. 18, 2025	Jason Zhou

1. Test Result Summary

1.1. Test Procedures and Results

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203	PASS
AC Power Line Conducted Emission	§15.207	PASS
Maximum Conducted Output Power	§15.407(a)	PASS
6dB Emission Bandwidth	§15.407(e)	N/A
26dB Emission Bandwidth& 99% Occupied Bandwidth	§15.407(a)	PASS
Power Spectral Density	§15.407(a)	PASS
Band edge	§15.407(b)/15.209/15.205	PASS
Radiated Emission	§15.407(b)/15.209/15.205	PASS
Frequency Stability	§15.407(g)	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.

1.2. Information of the Test Laboratory

Shenzhen HUAKE Testing Technology Co., Ltd.
 Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization:

A2LA Accreditation Code is 4781.01.
 FCC Designation Number is CN1229.
 Canada IC CAB identifier is CN0045.
 CNAS Registration Number is L9589.

1.3. 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 %.

No.	Item	MU
1	Conducted Emission	$\pm 0.37\text{dB}$
2	RF power, conducted	$\pm 3.35\text{dB}$
3	Spurious emissions, conducted	$\pm 2.20\text{dB}$
4	All emissions, radiated(<1G)	$\pm 3.90\text{dB}$
5	All emissions, radiated(>1G)	$\pm 4.28\text{dB}$
6	Temperature	$\pm 0.1^{\circ}\text{C}$
7	Humidity	$\pm 1.0\%$

2. EUT Description

2.1. General Description of EUT

Equipment	Smart Phone
Model Name	I16 Pro max
Serial Models	AE01, AE02, AE03, AE04, AE05, AE06, AE07, AE08, AE09, AE10, AE11, AE12, AE13, AE14, AE15, AE16, AE17, AE18, AE19, AE20, FA01, FA02, FA03, FA04, FA05, FA06, FA07, FA08, FA09, FA10, FA11, FA12, FA13, FA14, FA15, FA16, FA17, FA18, FA19, FA20, Viral11, Alpha10 Pro, Zero 5 neo, Echo8 Se, S26 Ultra, Pixel 9, SP30 Pro, MT Ultimate, M15 pro
Model Difference	All model's the function, software and electric circuit are the same, only with a product appearance, color and model named different. Test sample mode: I16 Pro max.
Trade Mark	N/A
FCC ID	2BDI3-V
Operation Frequency:	IEEE 802.11a/n/ac (HT20) 5.180GHz-5.240GHz IEEE 802.11n/ac (HT40) 5.190GHz-5.230GHz IEEE 802.11ac(HT80) 5.210GHz
Modulation Technology:	IEEE 802.11a/n/ac
Modulation Type	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM
Antenna Type	FPC Antenna
Antenna Gain	1.18dBi
Power Source	DC 5V From Type-C or DC 3.85V From Battery
Power Supply:	DC 5V From Type-C or DC 3.85V From Battery
Hardware Version	V1.0
Software Version	V1.0
Note: 1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. 2. Antenna gain Refer to the antenna specifications. 3. The cable loss data is obtained from the supplier. 4. The test results in the report only apply to the tested sample.	

2.2. Operation Frequency each of channel

802.11a/802.11n/ 802.11ac (HT20)		802.11n/802.11ac (HT40)		802.11ac(HT80)	
Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

2.3. Operation of EUT During Testing

For 802.11a/n (HT20)/ac(HT20)

Band I (5150 - 5250 MHz)		
Channel Number	Channel	Frequency (MHz)
36	Low	5180
40	Mid	5200
48	High	5240

For 802.11n (HT40)/ac(HT40)

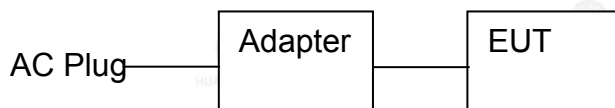
Band I (5150 - 5250 MHz)		
Channel Number	Channel	Frequency (MHz)
38	Low	5190
46	High	5230

For 802.11ac(HT80)

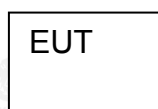
Band I (5150 - 5250 MHz)	
Channel Number	Frequency (MHz)
42	5210

2.4. Description of Test Setup

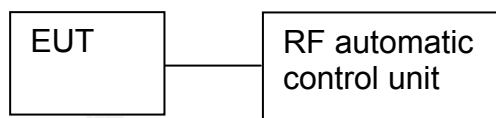
Operation of EUT during AC conducted testing and below 1GHz radiation testing:



Operation of EUT during above 1GHz radiation testing:



Operation of EUT during RF conducted testing:



The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. The worst case is X position.

2.5. Description of Support Units

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	Remark
1	Smart Phone	N/A	I16 Pro max	N/A	EUT
2	USB Cable	N/A	N/A	Length:0.82m	Accessory
3	Adapter	N/A	APD5-2	Input: AC 100-240V, 50/60Hz, 0.5A Output: DC 5V, 2A	Accessory

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. For conducted measurements (Output Power, 26db Bandwidth and 99% Occupied Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

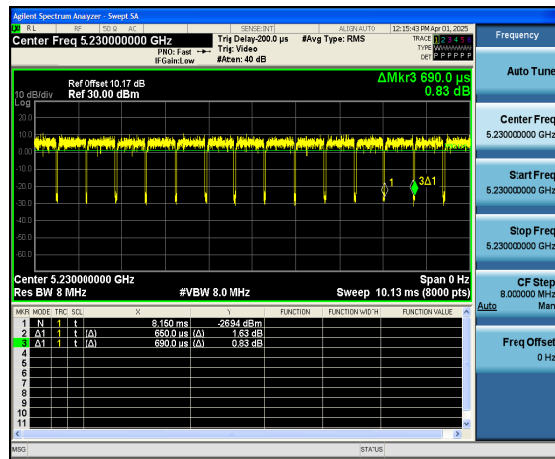
3. Genera Information

3.1. Test environment and mode

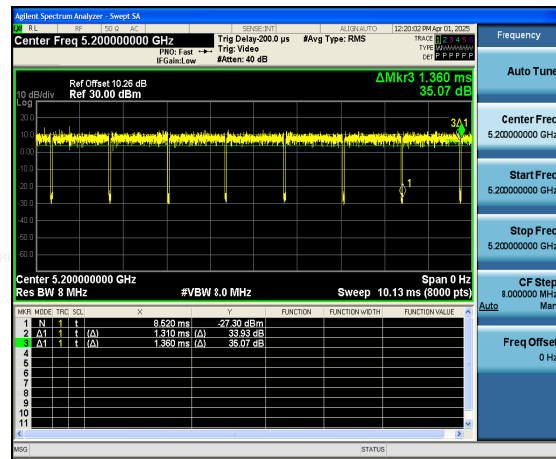
Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations
We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:	

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.	
Mode	Data rate
802.11a	6 Mbps
802.11n(HT20)	MCS0
802.11n(HT40)	MCS0
802.11ac(HT20)/ac(HT40)/ac(HT80)	MCS0
Final Test Mode:	
Operation mode:	Keep the EUT in continuous transmitting with modulation

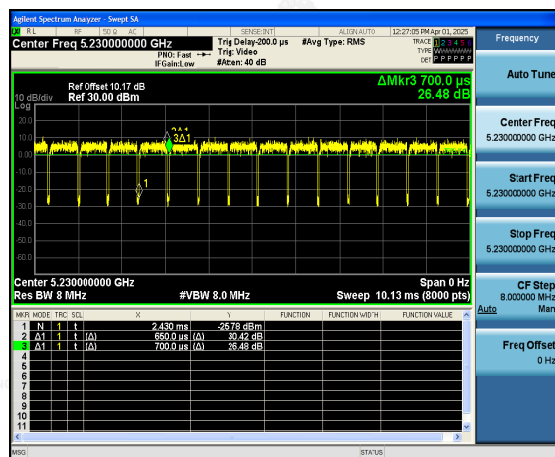
802.11n(HT40)



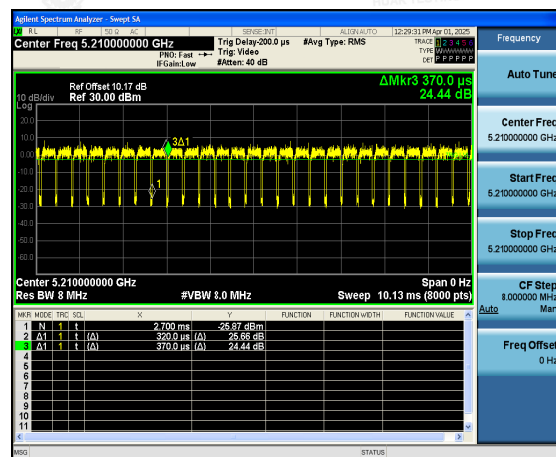
802.11ac(HT20)



802.11ac(HT40)



802.11ac(HT80)



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.

Shenzhen HUAKE Testing Technology Co., Ltd. Tel.: +86-0755-2302 9901 E-mail: info@huak.com Web.: www.huak.com
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4. Test Results and Measurement Data

4.1. AC Power Line Conducted Emission

4.1.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207														
Test Method:	ANSI C63.10:2013														
Frequency Range:	150 kHz to 30 MHz														
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto														
Limits:	<table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBuV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>5-30</td><td>60</td><td>50</td></tr></table>	Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													
Test Setup:	Reference Plane 40cm E.U.T AC power 80cm LISN Filter AC power EMI Receiver Test table/Insulation plane Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m														
Test Mode:	Tx Mode														
Test Procedure:	1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.														
Test Result:	Pass														

4.1.2. Test Instruments

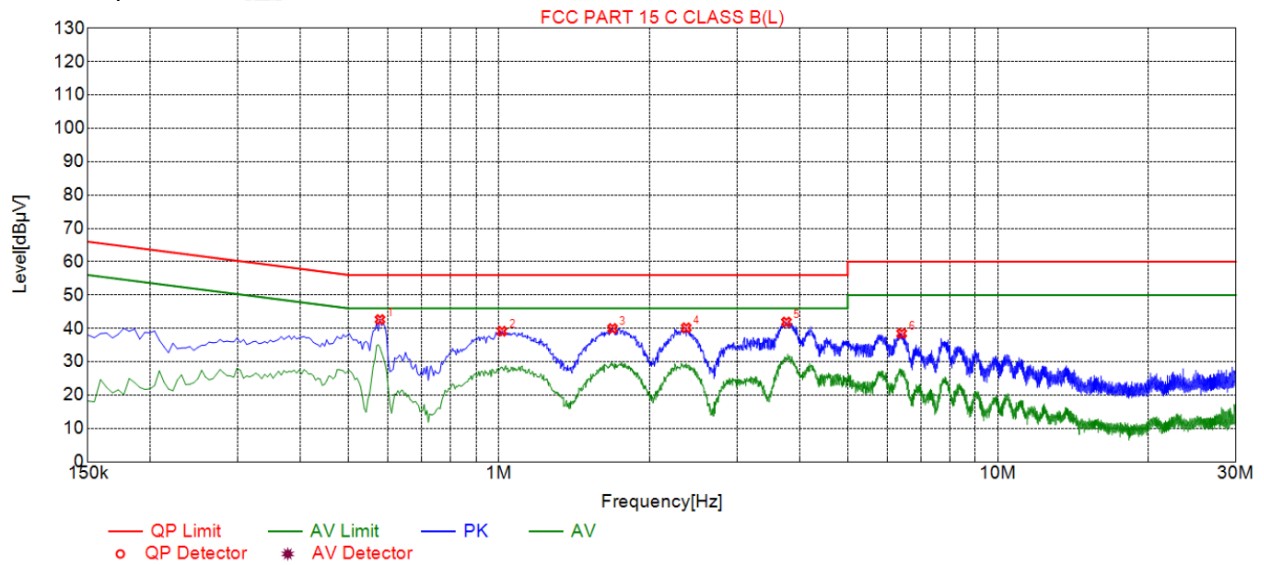
Conducted Emission Shielding Room Test Site (843)					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Receiver	R&S	ESR	HKE-005	Feb. 19, 2025	Feb. 18, 2026
LISN	R&S	ENV216	HKE-002	Feb. 19, 2025	Feb. 18, 2026
LISN	R&S	ENV216	HKE-059	Feb. 19, 2025	Feb. 18, 2026
Coax cable (9KHz-30MHz)	Times	381806-002	N/A	Feb. 19, 2025	Feb. 18, 2026
EMI Test Software	Tonscend	JS32-CE 2.5.0.6	HKE-081	N/A	N/A
10dB Attenuator	Schwarzbeck	VTSD9561F	HKE-153	Feb. 19, 2025	Feb. 18, 2026

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



4.1.3. Test data

Test Model No.: I16 Pro max
Test Specification: Line



Suspected List

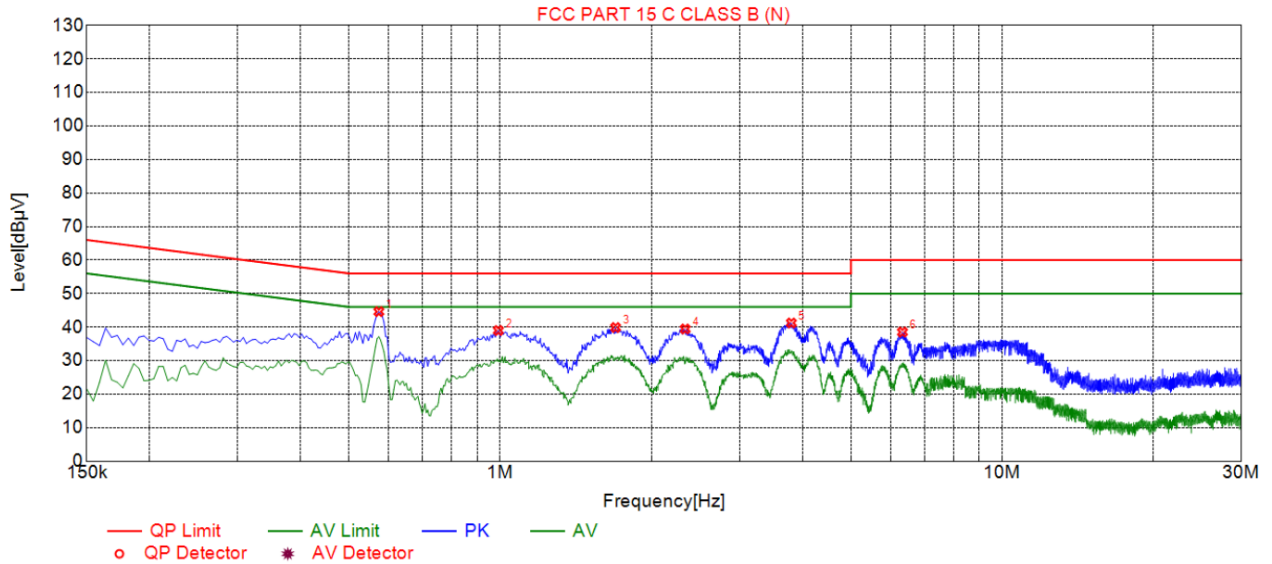
NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.5775	42.67	19.86	56.00	13.33	22.81	PK	L
2	1.0140	39.15	19.87	56.00	16.85	19.28	PK	L
3	1.6890	39.98	19.95	56.00	16.02	20.03	PK	L
4	2.3730	40.18	20.00	56.00	15.82	20.18	PK	L
5	3.7680	41.92	20.09	56.00	14.08	21.83	PK	L
6	6.4140	38.49	20.08	60.00	21.51	18.41	PK	L

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

Test Specification: Neutral



Suspected List

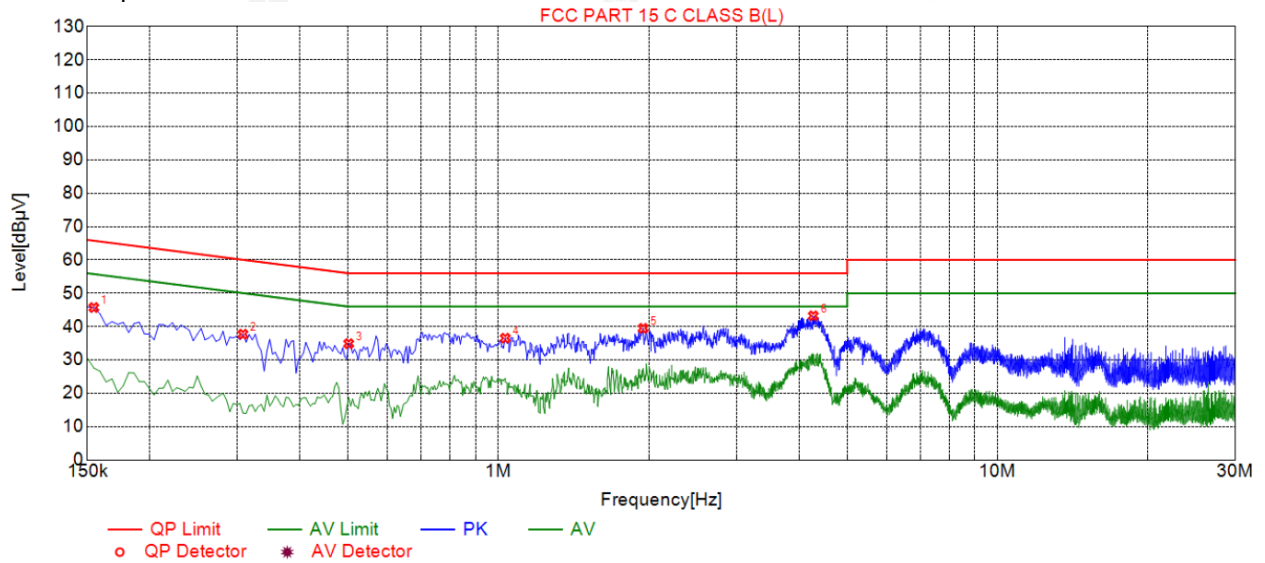
NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.5730	44.61	19.74	56.00	11.39	24.87	PK	N
2	0.9915	38.98	19.74	56.00	17.02	19.24	PK	N
3	1.6980	39.86	19.82	56.00	16.14	20.04	PK	N
4	2.3370	39.43	19.88	56.00	16.57	19.55	PK	N
5	3.8040	41.22	19.97	56.00	14.78	21.25	PK	N
6	6.3330	38.52	19.98	60.00	21.48	18.54	PK	N

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

Series Model No.: S26 Ultra
Test Specification: Line

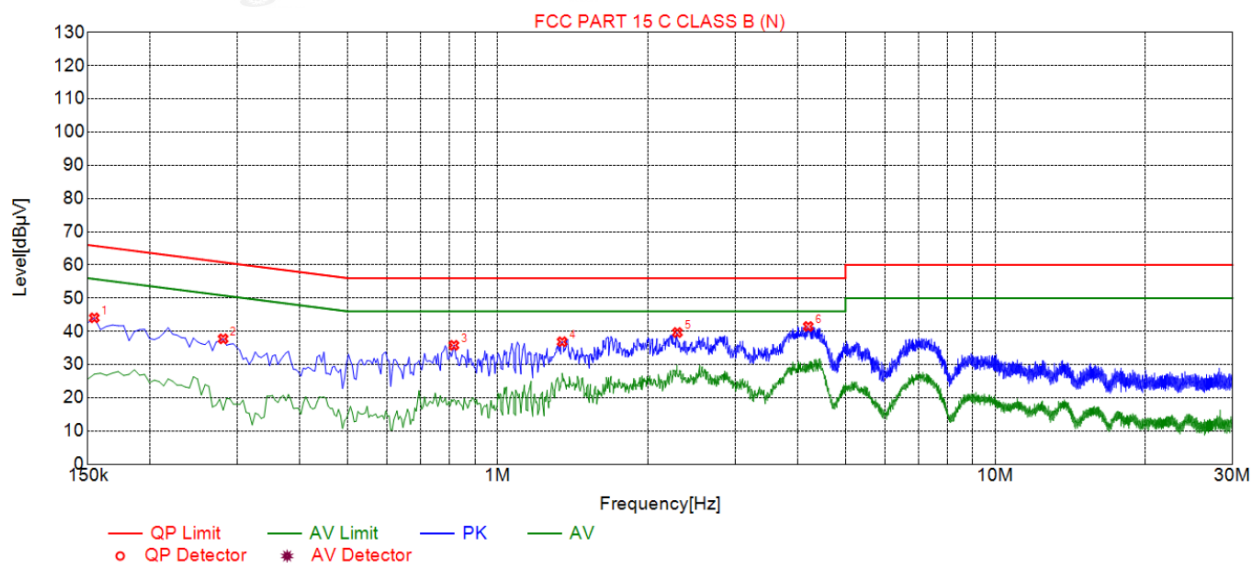


Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1545	45.71	19.83	65.75	20.04	25.88	PK	L
2	0.3075	37.73	19.85	60.04	22.31	17.88	PK	L
3	0.5010	34.88	19.84	56.00	21.12	15.04	PK	L
4	1.0320	36.53	19.88	56.00	19.47	16.65	PK	L
5	1.9500	39.48	19.96	56.00	16.52	19.52	PK	L
6	4.2765	43.24	20.09	56.00	12.76	23.15	PK	L

Remark: Margin = Limit – Level
Correction factor = Cable lose + LISN insertion loss
Level=Test receiver reading + correction factor

Test Specification: Neutral



Suspected List

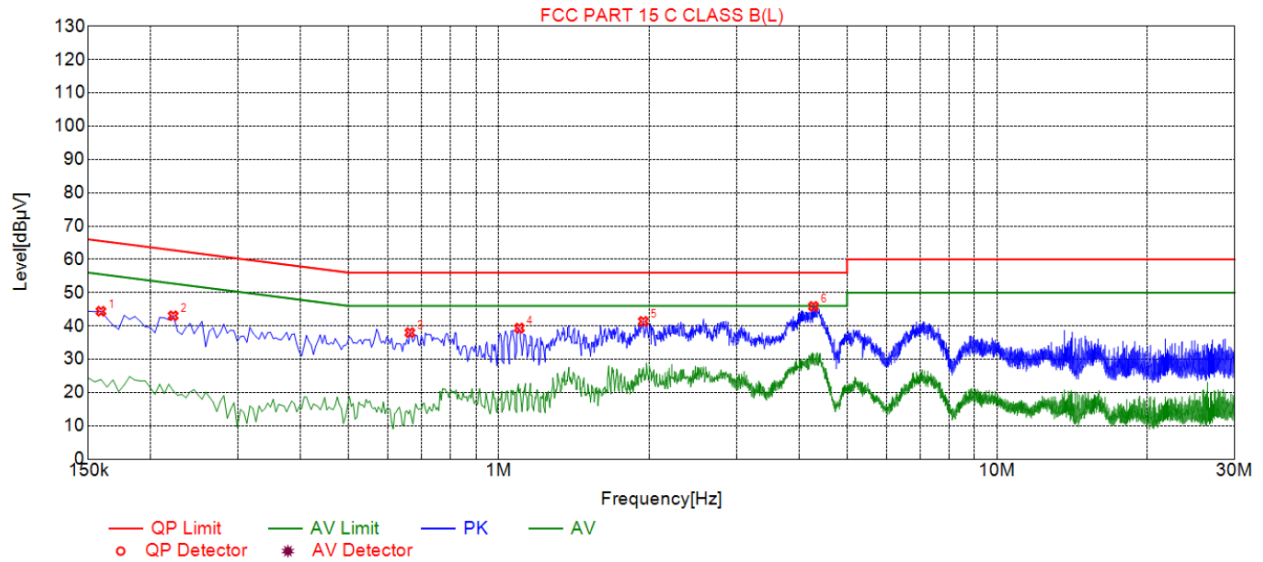
NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1545	44.06	19.73	65.75	21.69	24.33	PK	N
2	0.2805	37.75	19.73	60.80	23.05	18.02	PK	N
3	0.8160	35.80	19.74	56.00	20.20	16.06	PK	N
4	1.3470	36.88	19.79	56.00	19.12	17.09	PK	N
5	2.2965	39.65	19.88	56.00	16.35	19.77	PK	N
6	4.2090	41.47	19.98	56.00	14.53	21.49	PK	N

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

Series Model No.: Pixel 9
Test Specification: Line



Suspected List

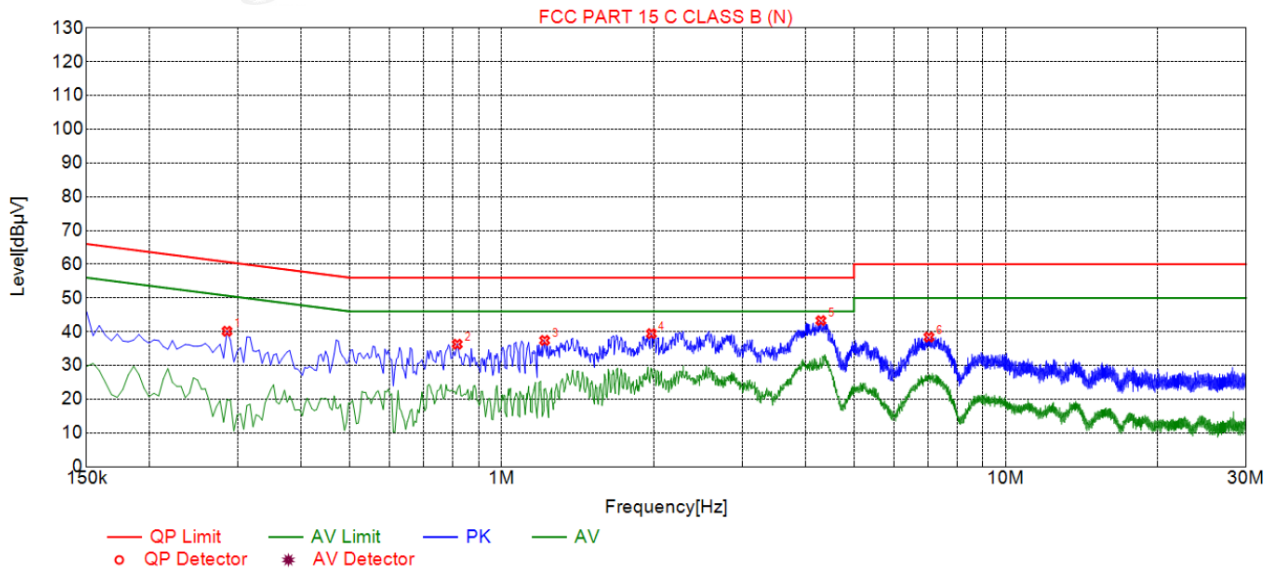
NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1590	44.42	19.81	65.52	21.10	24.61	PK	L
2	0.2220	43.07	19.84	62.74	19.67	23.23	PK	L
3	0.6630	37.99	19.86	56.00	18.01	18.13	PK	L
4	1.0995	39.35	19.88	56.00	16.65	19.47	PK	L
5	1.9500	41.38	19.96	56.00	14.62	21.42	PK	L
6	4.2810	45.89	20.09	56.00	10.11	25.80	PK	L

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

Test Specification: Neutral



Suspected List

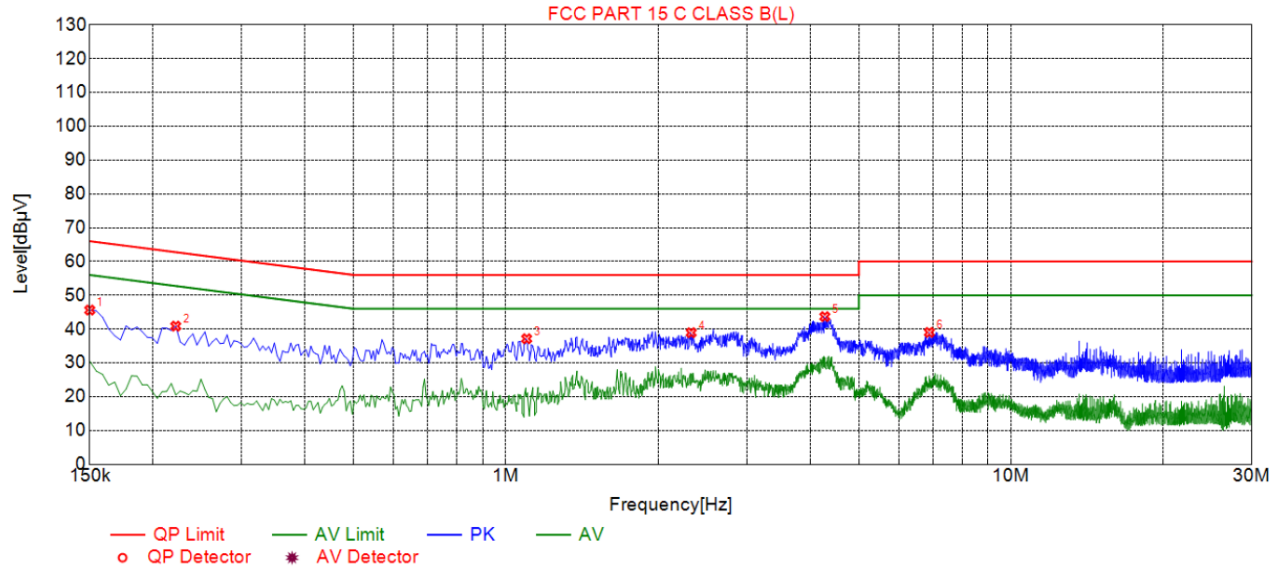
NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.2850	40.14	19.73	60.67	20.53	20.41	PK	N
2	0.8160	36.30	19.74	56.00	19.70	16.56	PK	N
3	1.2165	37.42	19.77	56.00	18.58	17.65	PK	N
4	1.9815	39.42	19.84	56.00	16.58	19.58	PK	N
5	4.2990	43.29	19.98	56.00	12.71	23.31	PK	N
6	7.0440	38.40	19.96	60.00	21.60	18.44	PK	N

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

Series Model No.: SP30 Pro
Test Specification: Line



Suspected List

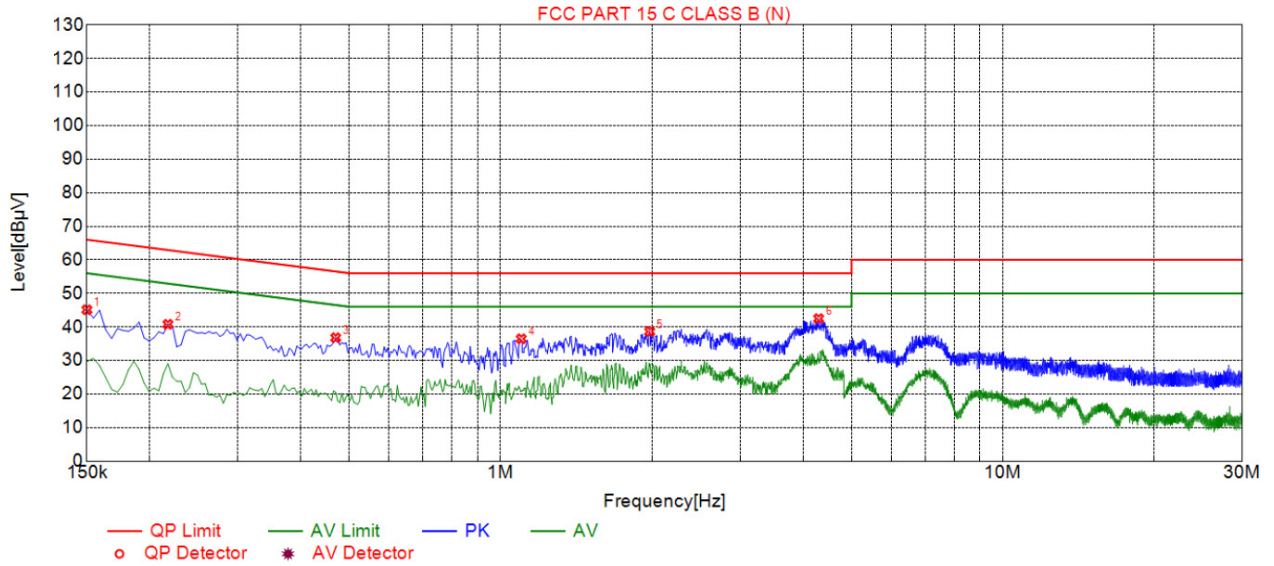
NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1500	45.62	19.83	66.00	20.38	25.79	PK	L
2	0.2220	40.87	19.84	62.74	21.87	21.03	PK	L
3	1.0995	37.15	19.88	56.00	18.85	17.27	PK	L
4	2.3280	38.93	20.00	56.00	17.07	18.93	PK	L
5	4.2810	43.69	20.09	56.00	12.31	23.60	PK	L
6	6.8955	39.02	20.07	60.00	20.98	18.95	PK	L

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

Test Specification: Neutral



Suspected List

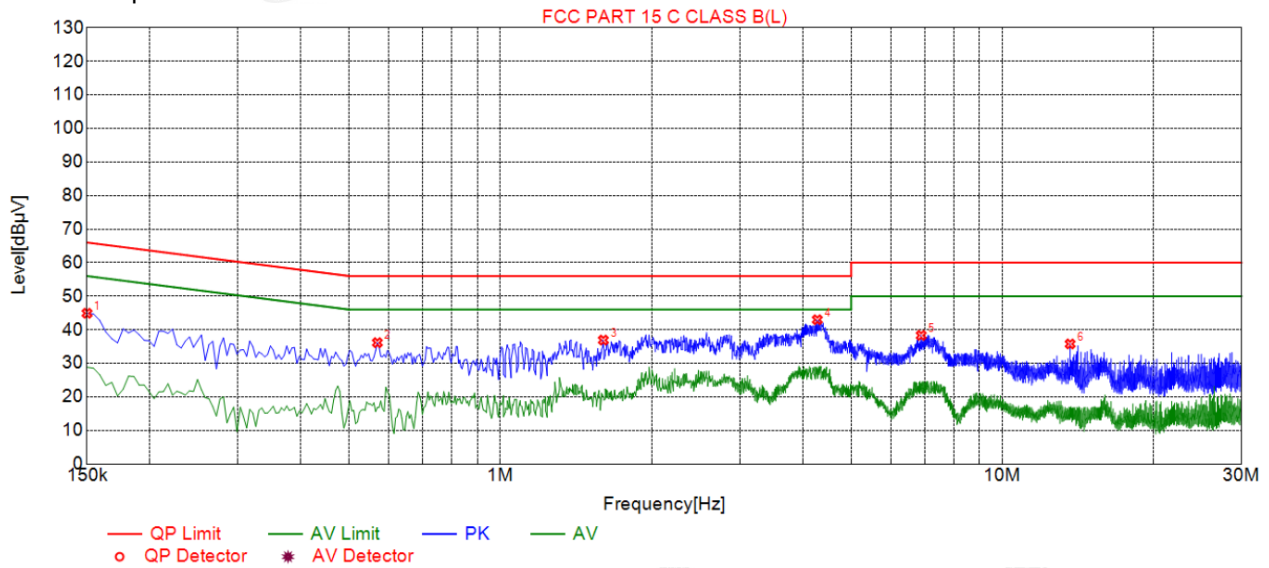
NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1500	45.12	19.73	66.00	20.88	25.39	PK	N
2	0.2175	40.78	19.75	62.91	22.13	21.03	PK	N
3	0.4695	36.78	19.73	56.52	19.74	17.05	PK	N
4	1.0995	36.47	19.75	56.00	19.53	16.72	PK	N
5	1.9815	38.62	19.84	56.00	17.38	18.78	PK	N
6	4.2990	42.49	19.98	56.00	13.51	22.51	PK	N

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

Series Model No.: MT Ultimate
Test Specification: Line

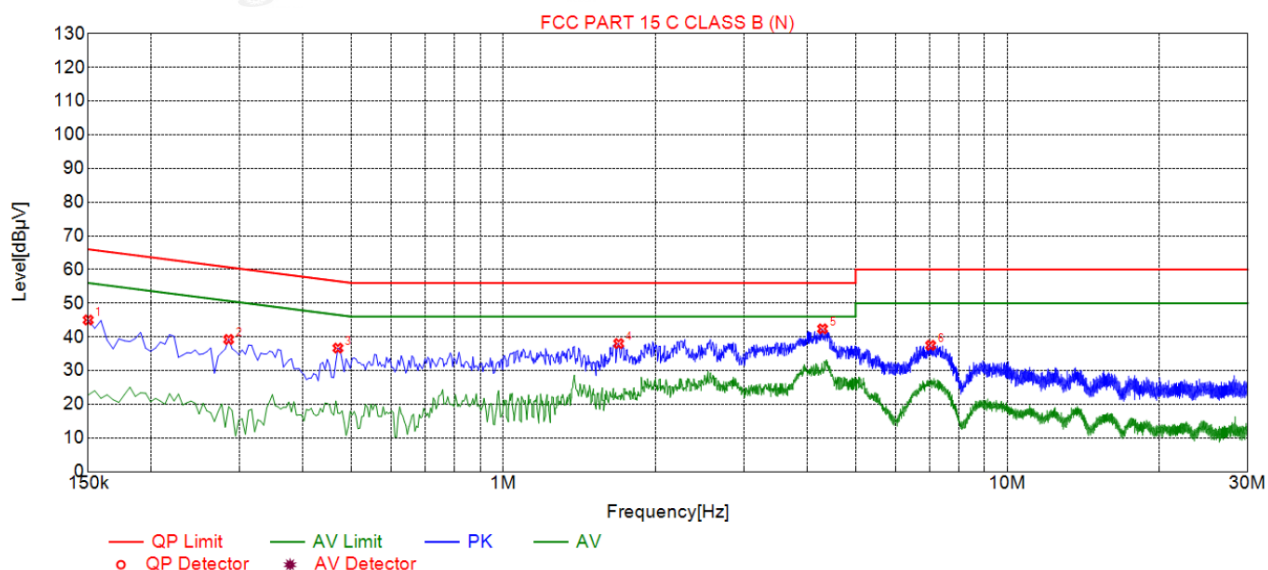


Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1500	44.92	19.83	66.00	21.08	25.09	PK	L
2	0.5685	36.15	19.86	56.00	19.85	16.29	PK	L
3	1.6035	36.92	19.93	56.00	19.08	16.99	PK	L
4	4.2810	42.99	20.09	56.00	13.01	22.90	PK	L
5	6.8955	38.32	20.07	60.00	21.68	18.25	PK	L
6	13.6590	35.77	19.82	60.00	24.23	15.95	PK	L

Remark: Margin = Limit – Level
Correction factor = Cable lose + LISN insertion loss
Level=Test receiver reading + correction factor

Test Specification: Neutral



Suspected List

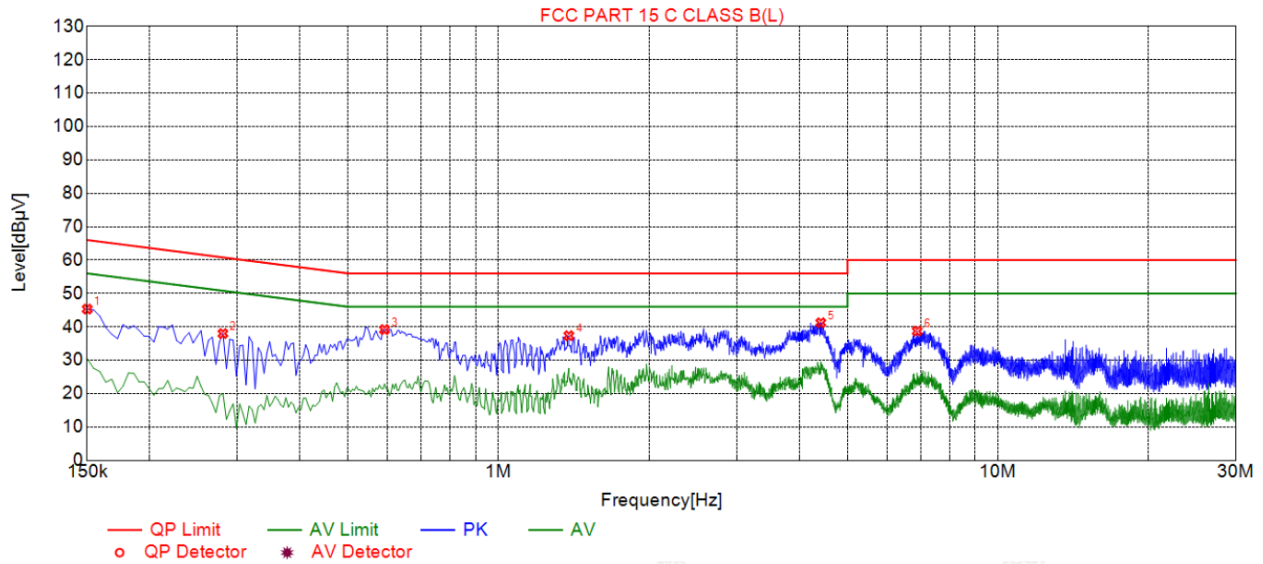
NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1500	45.02	19.73	66.00	20.98	25.29	PK	N
2	0.2850	39.24	19.73	60.67	21.43	19.51	PK	N
3	0.4695	36.68	19.73	56.52	19.84	16.95	PK	N
4	1.6935	38.04	19.82	56.00	17.96	18.22	PK	N
5	4.2990	42.39	19.98	56.00	13.61	22.41	PK	N
6	7.0440	37.50	19.96	60.00	22.50	17.54	PK	N

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

Series Model No.: M15 pro
Test Specification: Line



Suspected List

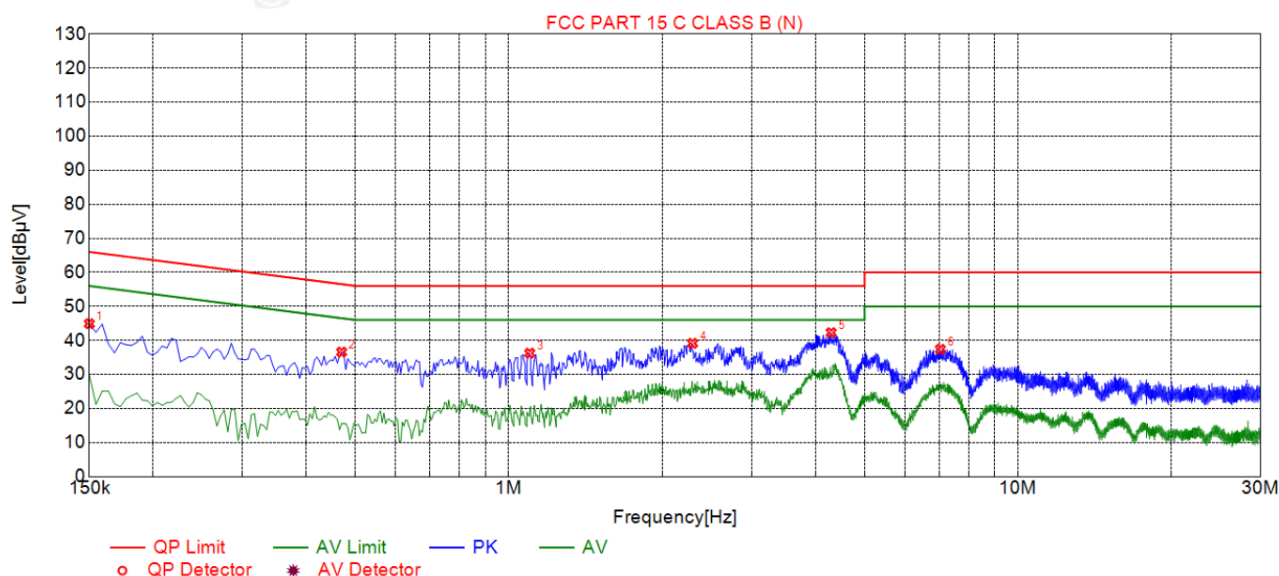
NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1500	45.32	19.83	66.00	20.68	25.49	PK	L
2	0.2805	37.99	19.84	60.80	22.81	18.15	PK	L
3	0.5910	39.17	19.86	56.00	16.83	19.31	PK	L
4	1.3830	37.35	19.92	56.00	18.65	17.43	PK	L
5	4.4205	41.22	20.09	56.00	14.78	21.13	PK	L
6	6.8955	38.72	20.07	60.00	21.28	18.65	PK	L

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

Test Specification: Neutral



Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1500	44.92	19.73	66.00	21.08	25.19	PK	N
2	0.4695	36.58	19.73	56.52	19.94	16.85	PK	N
3	1.0995	36.27	19.75	56.00	19.73	16.52	PK	N
4	2.2965	39.15	19.88	56.00	16.85	19.27	PK	N
5	4.2990	42.29	19.98	56.00	13.71	22.31	PK	N
6	7.0440	37.40	19.96	60.00	22.60	17.44	PK	N

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

4.2. Maximum Conducted Output Power

4.2.1. Test Specification

Test Requirement:	FCC Part15 E Section 15.407(a)	
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02.r01 Section E	
Limit:	Frequency Band (MHz)	Limit
	5150-5250	250mW for client devices
Test Setup:	 RF automatic control unit EUT	
Test Mode:	Transmitting mode with modulation	
Test Procedure:	1. The testing follows the Measurement Procedure of KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E, 3, a. 2. The RF output of EUT was connected to the RF automatic control unit by RF cable. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Measure the conducted output power and record the results in the test report.	
Test Result:	PASS	
Remark:	Conducted output power= measurement power +10log(1/x) X is duty cycle=1, so 10log(1/1)=0 Conducted output power= measurement power	

4.2.2. Test Instruments

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 19, 2025	Feb. 18, 2026
Power meter	Agilent	E4419B	HKE-085	Feb. 19, 2025	Feb. 18, 2026
Power Sensor	Agilent	E9300A	HKE-086	Feb. 19, 2025	Feb. 18, 2026
RF cable	Times	1-40G	HKE-034	Feb. 19, 2025	Feb. 18, 2026
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 19, 2025	Feb. 18, 2026
RF Test Software	Tonscend	JS1120-3 Version 3.5.39	HKE-083	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

4.2.3. Test Data

Configuration Band I (5150 - 5250 MHz)				
Mode	Test Channel	Maximum Conducted Output Power (dBm)	FCC Limit (dBm)	Result
802.11a	CH36	8.36	24	PASS
802.11a	CH40	7.62	24	PASS
802.11a	CH48	6.47	24	PASS
802.11n(HT20)	CH36	8.14	24	PASS
802.11n(HT20)	CH40	7.62	24	PASS
802.11n(HT20)	CH48	6.38	24	PASS
802.11n(HT40)	CH38	7.70	24	PASS
802.11n(HT40)	CH46	6.42	24	PASS
802.11ac(HT20)	CH36	7.29	24	PASS
802.11ac(HT20)	CH40	6.75	24	PASS
802.11ac(HT20)	CH48	6.52	24	PASS
802.11ac(HT40)	CH38	7.61	24	PASS
802.11ac(HT40)	CH46	6.90	24	PASS
802.11ac(HT80)	CH42	6.46	24	PASS
Note: 1.The test results including the cable lose.				

4.3. 6db Emission Bandwidth

4.3.1. Test Specification

Test Requirement:	FCC CFR47 Part 15 Section 15.407(e)
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C
Limit:	>500kHz
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. 4. Measure and record the results in the test report.
Test Result:	N/A

4.3.2. Test Instruments

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 19, 2025	Feb. 18, 2026
RF cable	Times	1-40G	HKE-034	Feb. 19, 2025	Feb. 18, 2026
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 19, 2025	Feb. 18, 2026
RF Test Software	Tonscend	JS1120-3 Version 3.5.39	HKE-083	N/A	N/A

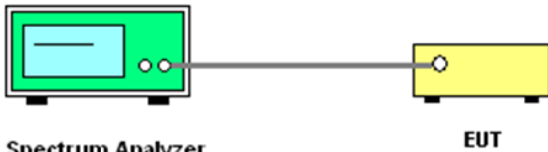
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

4.3.3 Test data

N/A

4.4. 26dB Bandwidth and 99% Occupied Bandwidth

4.4.1. Test Specification

Test Requirement:	47 CFR Part 15C Section 15.407
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C
Limit:	No restriction limits
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Make the measurement with the spectrum analyzer's resolution bandwidth $RBW = 1\%$ EBW, $VBW \geq 3RBW$, In order to make an accurate measurement. 4. Measure and record the results in the test report.
Test Result:	PASS

4.4.2. Test Instruments

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 19, 2025	Feb. 18, 2026
RF cable	Times	1-40G	HKE-034	Feb. 19, 2025	Feb. 18, 2026
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 19, 2025	Feb. 18, 2026
RF Test Software	Tonscend	JS1120-3 Version 3.5.39	HKE-083	N/A	N/A

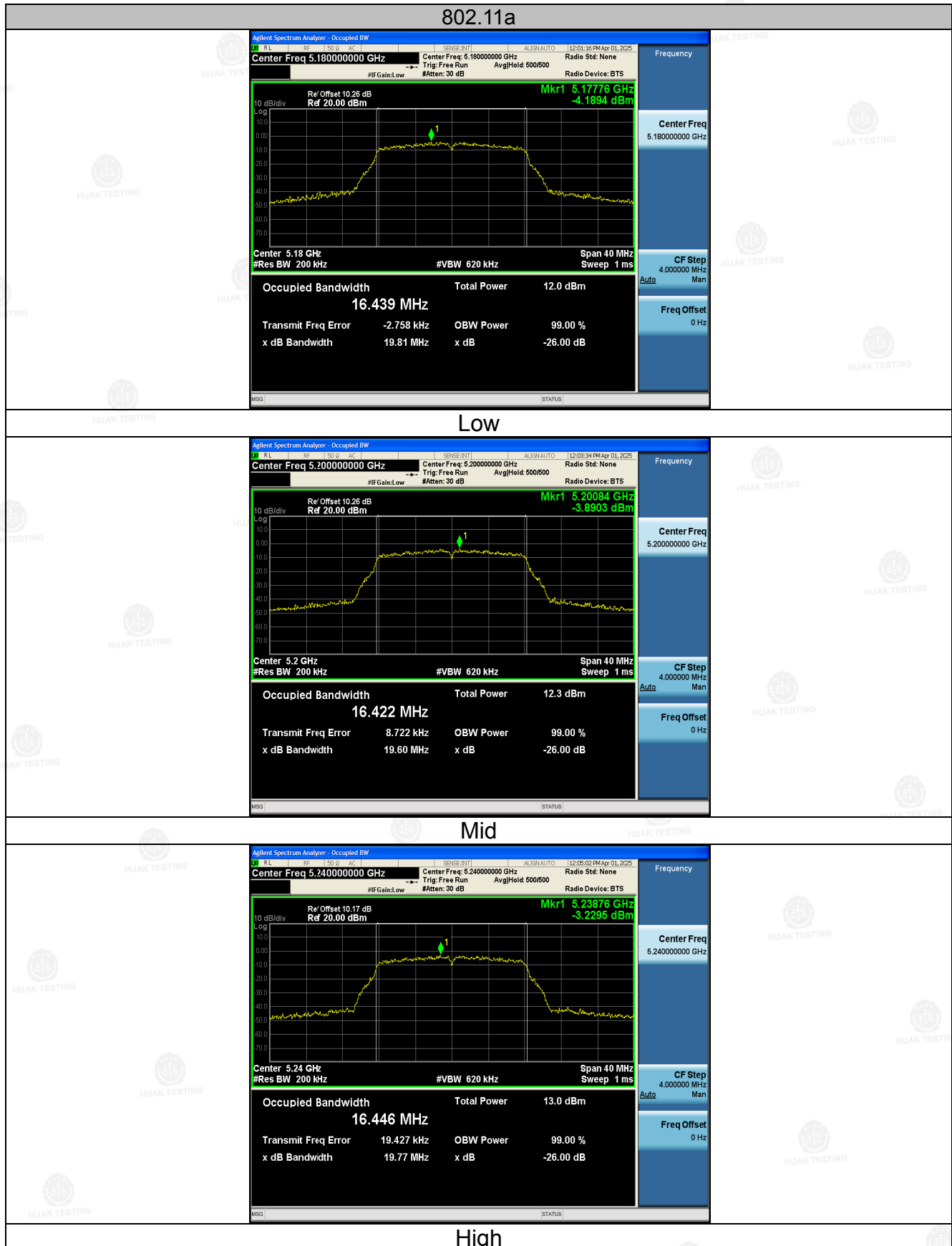
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

4.4.3. Test data

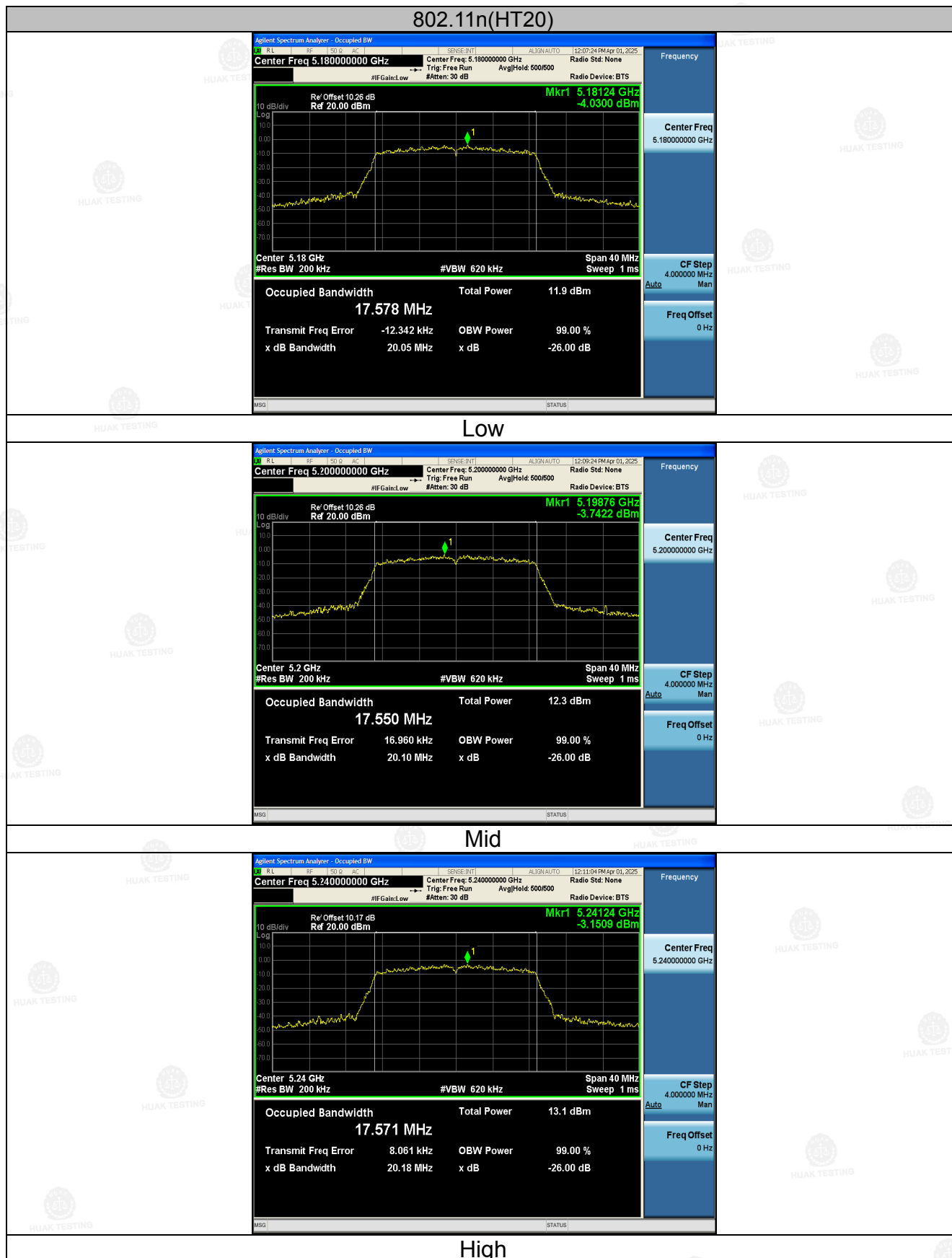
Mode	Test Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	Verdict
802.11a	CH36	5180	19.81	PASS
802.11a	CH40	5200	19.60	PASS
802.11a	CH48	5240	19.77	PASS
802.11n(HT20)	CH36	5180	20.05	PASS
802.11n(HT20)	CH40	5200	20.10	PASS
802.11n(HT20)	CH48	5240	20.18	PASS
802.11n(HT40)	CH38	5190	40.63	PASS
802.11n(HT40)	CH46	5230	40.41	PASS
802.11ac(HT20)	CH36	5180	20.17	PASS
802.11ac(HT20)	CH40	5200	20.21	PASS
802.11ac(HT20)	CH48	5240	20.35	PASS
802.11ac(HT40)	CH38	5190	40.34	PASS
802.11ac(HT40)	CH46	5230	40.28	PASS
802.11ac(HT80)	CH42	5210	81.13	PASS

Test plots as follows:

Band I (5150 – 5250 MHz)



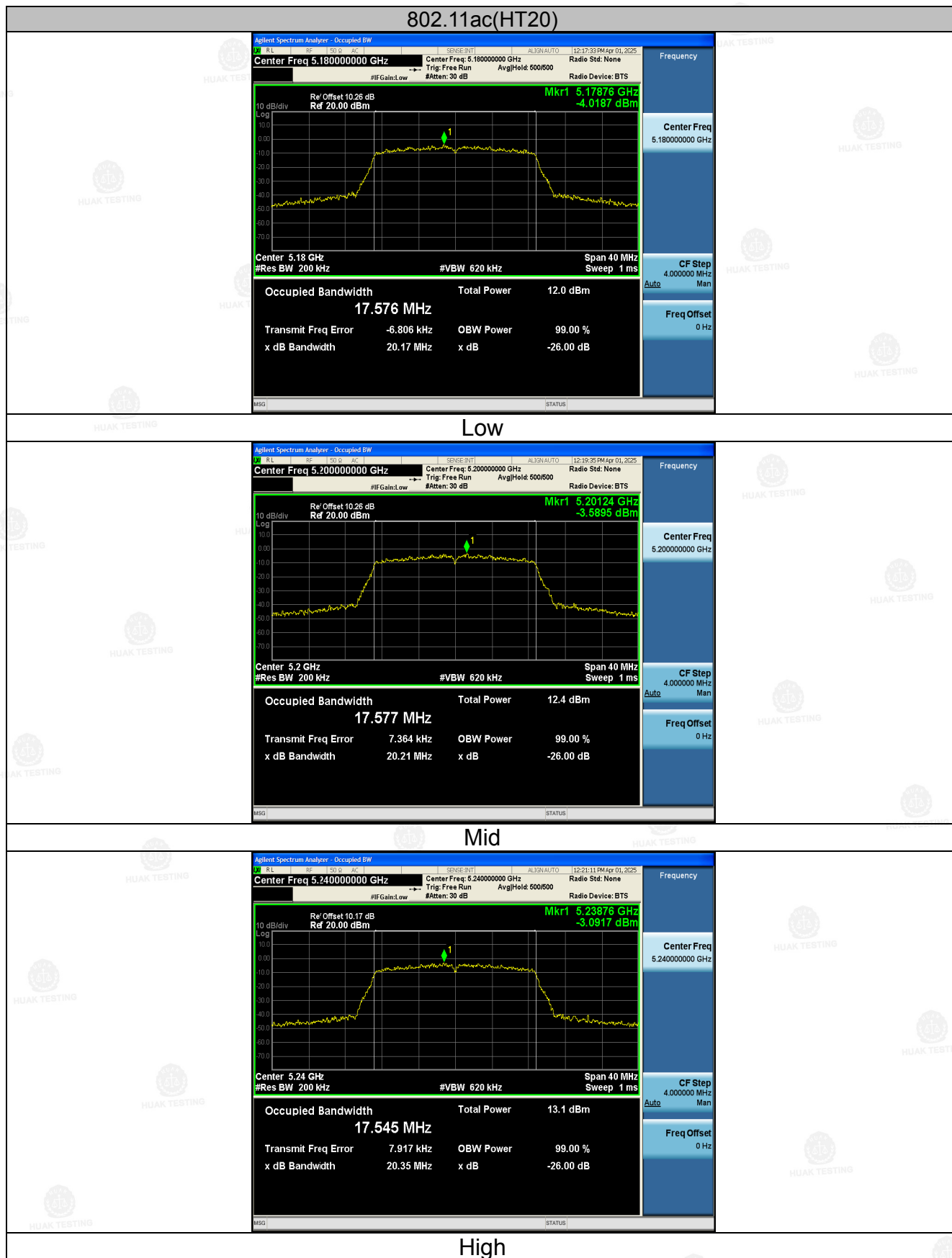
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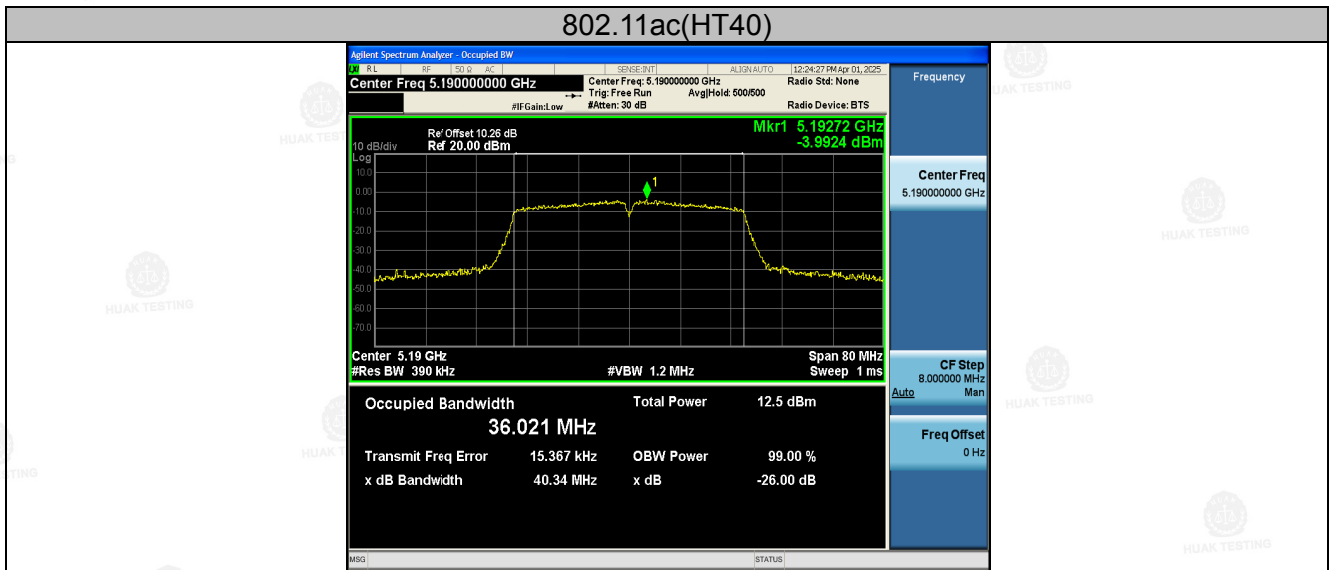
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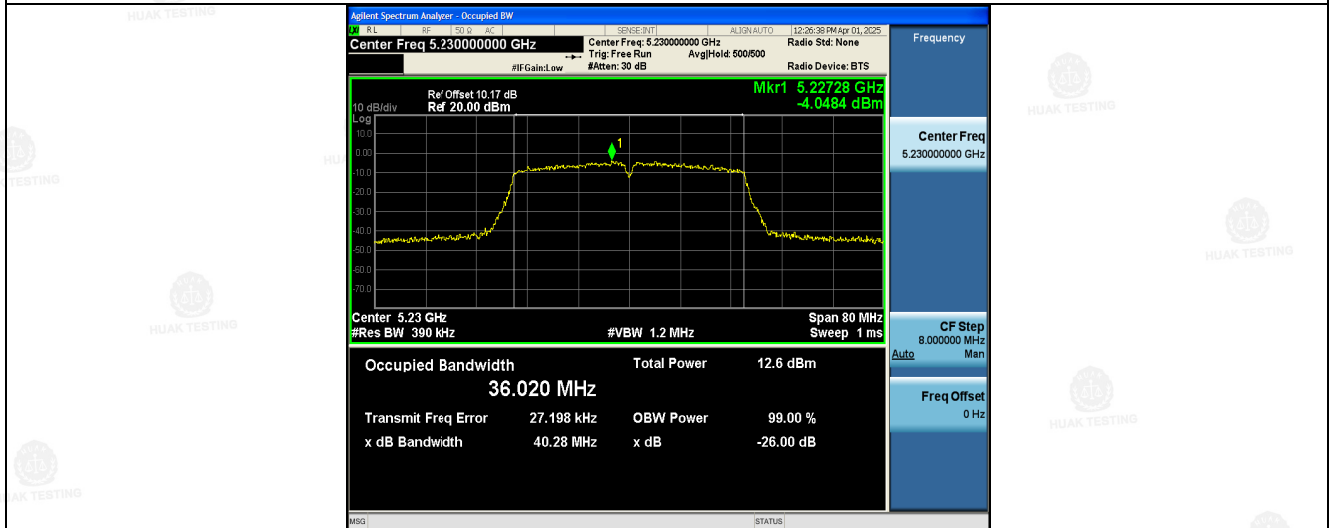




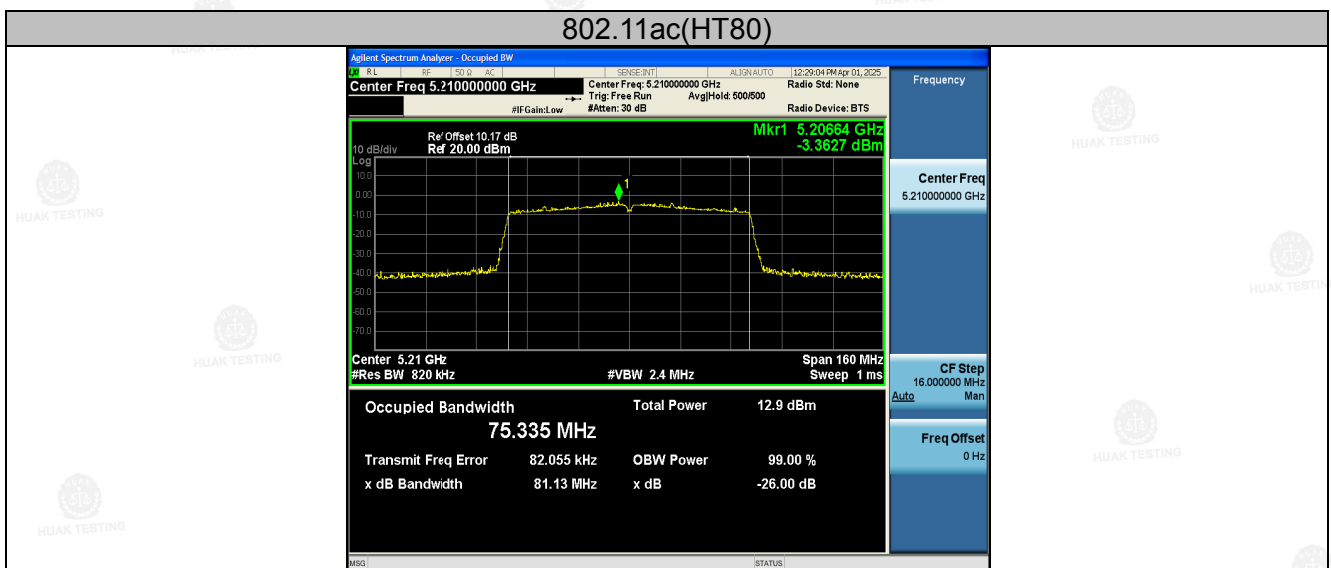
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Low



High



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4.5. Power Spectral Density

4.5.1. Test Specification

Test Requirement:	FCC Part15 E Section 15.407 (a)
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section F
Limit:	$\leq 11.00\text{dBm/MHz}$ for Band I 5150MHz-5250MHz
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth. 2. Set RBW = 1 MHz, VBW $\geq 3 \times$ RBW, Sweep time = Auto, Detector = RMS. 3. Allow the sweeps to continue until the trace stabilizes. 4. Use the peak marker function to determine the maximum amplitude level. 5. The E.I.R.P spectral density used radiated test method. At a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment.
Test Result:	PASS

4.5.2. Test Instruments

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 19, 2025	Feb. 18, 2026
RF cable	Times	1-40G	HKE-034	Feb. 19, 2025	Feb. 18, 2026
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 19, 2025	Feb. 18, 2026
RF Test Software	Tonscend	JS1120-3 Version 3.5.39	HKE-083	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

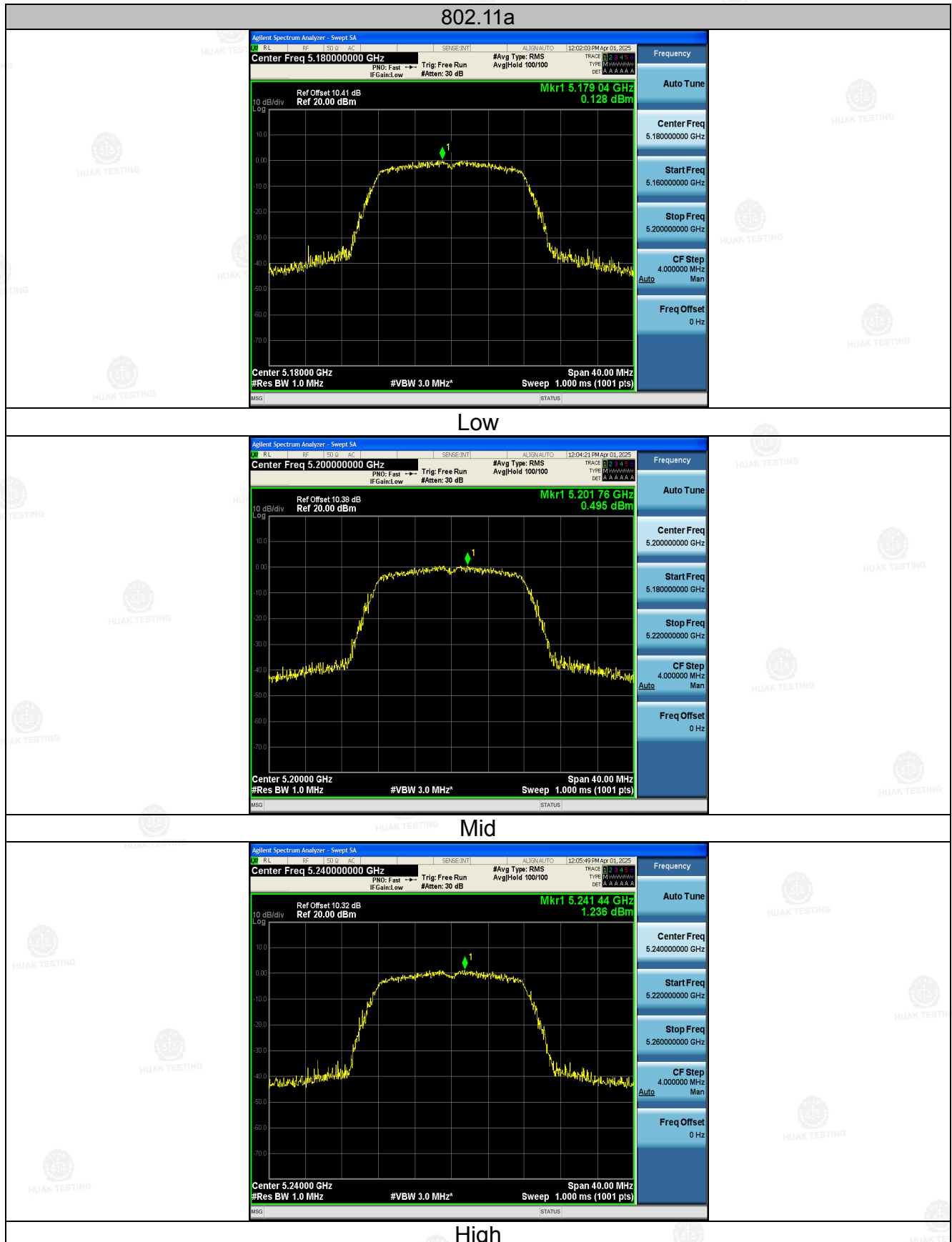
4.5.3. Test data

Mode	Test Channel	Level [dBm/MHz]	Limit (dBm/MHz)	Result
802.11a	CH36	0.13	11	PASS
802.11a	CH40	0.50	11	PASS
802.11a	CH48	1.24	11	PASS
802.11n(HT20)	CH36	-0.25	11	PASS
802.11n(HT20)	CH40	1.27	11	PASS
802.11n(HT20)	CH48	1.07	11	PASS
802.11n(HT40)	CH38	-2.28	11	PASS
802.11n(HT40)	CH46	-1.68	11	PASS
802.11ac(HT20)	CH36	0.32	11	PASS
802.11ac(HT20)	CH40	1.04	11	PASS
802.11ac(HT20)	CH48	1.57	11	PASS
802.11ac(HT40)	CH38	-1.58	11	PASS
802.11ac(HT40)	CH46	-2.11	11	PASS
802.11ac(HT80)	CH42	-4.35	11	PASS

Note: Instrument attenuation and cable loss See test diagram

Test plots as follows:

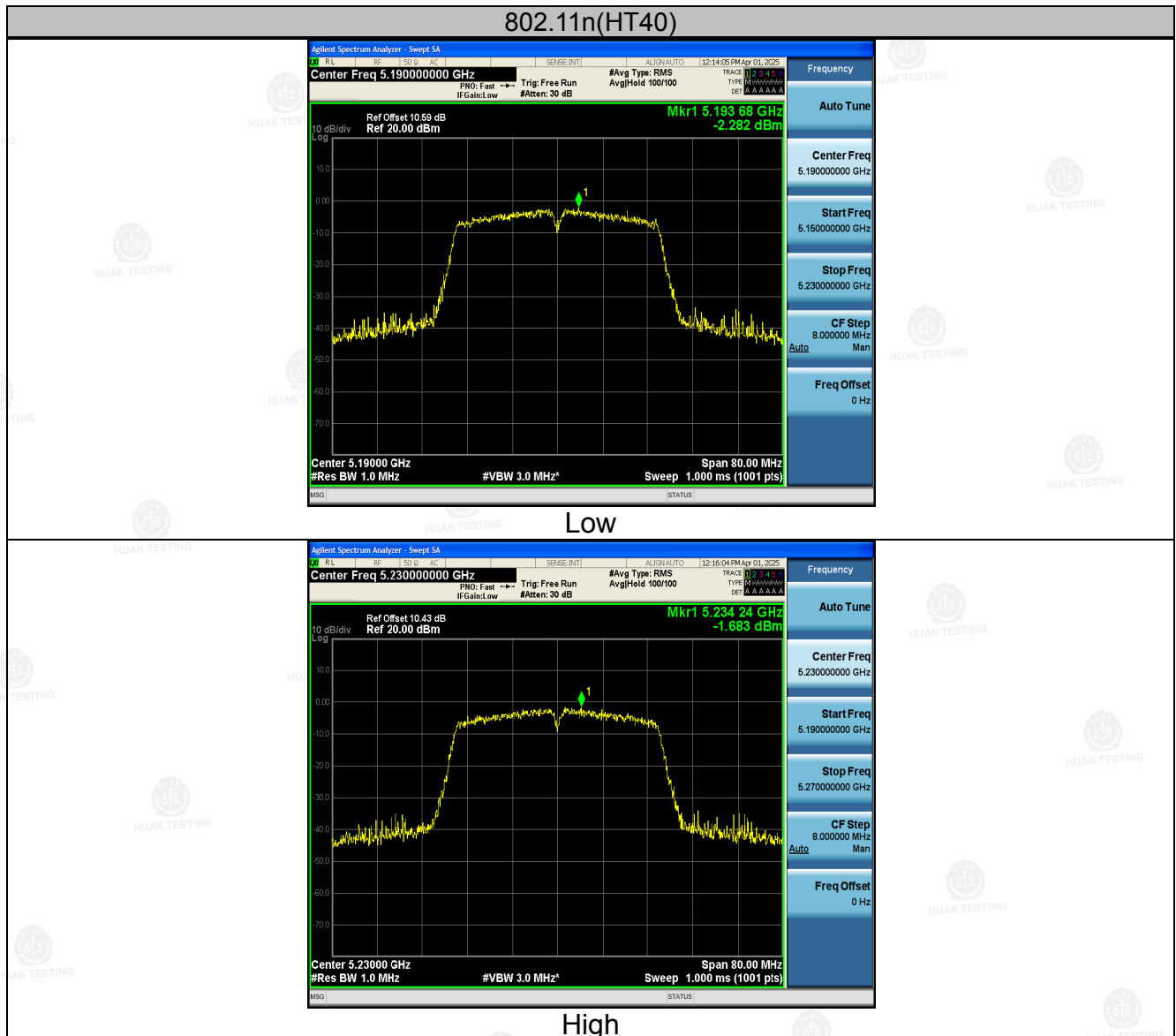
Band I (5150 – 5250 MHz)



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