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VERITAS

Test Report No.: PSU-NQN2502260117RF03



Certificate #6613.01

FCC TEST REPORT

(Part 15, Subpart E)

Applicant:	Qingdao Intelligent & Precise Electronics Co., Ltd.
Address:	No.218, Qianwangang Road, Economic and Technological Development Zone, Qingdao, Shandong Province, China

Manufacturer or Supplier:	Qingdao Intelligent & Precise Electronics Co., Ltd.
Address:	No.218, Qianwangang Road, Economic and Technological Development Zone, Qingdao, Shandong Province, China
Product:	WiFi/BT Module
Brand Name:	Hisense
Model Name:	MWH648S
FCC ID:	2AJVQ-MWH648S
Date of tests:	Feb.7, 2025 ~ Mar.10, 2025

The tests have been carried out according to the requirements of the following standard:

FCC Part 15, Subpart E, Section 15.407

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Prepared by Hanwen Xu Engineer / Mobile Department	Approved by Peibo Sun Manager / Mobile Department

Date: Mar.10, 2025 Date: Mar.10, 2025

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
PSU-NQN2502260117RF03	Original release	Mar.10, 2025



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1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART E		
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT
15.407(b)(9)	AC Power Conducted Emission	Compliance
15.407(b) (1/2/3/4/5)	Radiated Emission & Band Edge Measurement	Compliance
15.407(a/1/2/3)	Maximum conducted output Power	Compliance
15.407(a/1/2/3)	Peak Power Spectral Density	Compliance
15.407(a)(2)(12)	26 dB Bandwidth	Compliance
15.407(e)	6 dB Bandwidth	Compliance
15.203	Antenna Requirement	Compliance

NOTE:

1. Except the data of RSE and Band Edge Measurement, other data please refer to the appendix A and Appendix B.

***Test Lab Information Reference**

Lab A:

Huarui 7Layers High Technology (Suzhou) Co., Ltd.

Lab Address:

Tower N, Innovation Center, 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province

Accredited Test Lab Cert 6613.01

The FCC Site Registration No. is 434559; The Designation No. is CN1325.

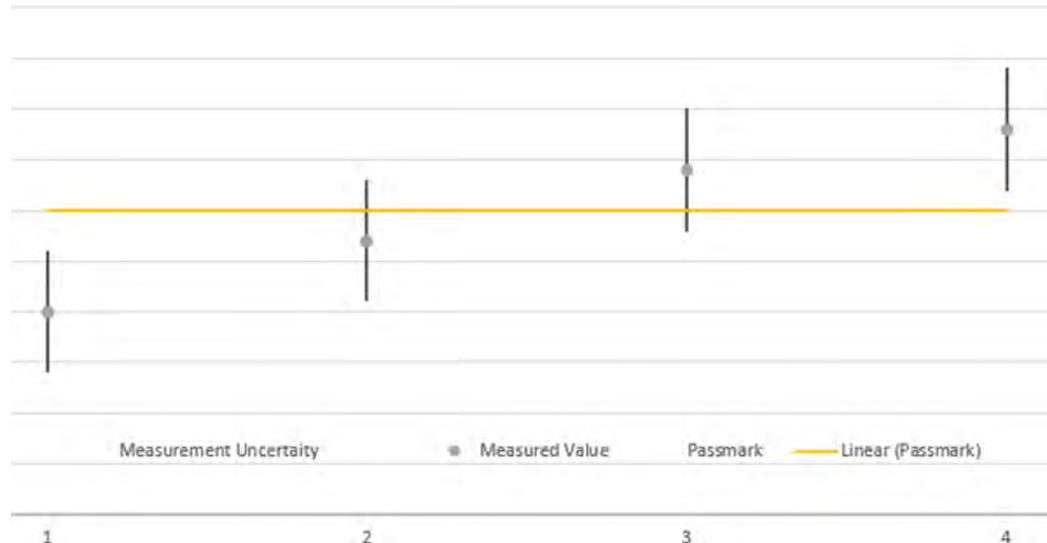


1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	UNCERTAINTY
AC Power Conducted emissions	±2.70dB
Radiated emissions (9KHz~30MHz)	±2.68dB
Radiated emissions (30MHz~1GHz)	±4.98dB
Radiated emissions (1GHz ~6GHz)	±4.70dB
Radiated emissions (6GHz ~18GHz)	±4.60dB
Radiated emissions (18GHz ~40GHz)	±4.12dB
Conducted emissions	±4.01dB
Occupied Channel Bandwidth	±43.58KHz
Conducted Output power	±2.06dB
Power Spectral Density	±0.85 dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.



The verdicts in this test report are given according the above diagram:

Case	Measured Value	Uncertainty Range	Verdict
1	below pass mark	below pass mark	Passed
2	below pass mark	within pass mark	Passed
3	above pass mark	within pass mark	Failed
4	above pass mark	above pass mark	Failed

That means, the laboratory applies, as decision rule (see ISO/IEC 17025:2017), the so-called shared risk principle.



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2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT*	WiFi/BT Module
BRAND NAME*	Hisense
MODEL NAME*	MWH648S
NOMINAL VOLTAGE*	3.3Vdc (DC supply)
MODULATION *	OFDM, OFDMA
TRANSFER RATE*	802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11n: up to 300.0Mbps 802.11ac: up to 866.6Mbps 802.11ax: up to 1201Mbps
OPERATING FREQUENCY*	5180 ~ 5240MHz, 5260 ~ 5320MHz, 5500 ~ 5700MHz, 5745 ~ 5825MHz
NUMBER OF CHANNEL	5180 ~ 5240MHz: 4 for 802.11a, 802.11n/ac/ax (20MHz) 2 for 802.11n/ac/ax (40MHz) 1 for 802.11ac/ax (80MHz) 5260 ~ 5320MHz: 4 for 802.11a, 802.11n/ac/ax (20MHz) 2 for 802.11n/ac/ax (40MHz) 1 for 802.11ac/ax (80MHz) 5500 ~ 5700MHz: 12 for 802.11a, 802.11n/ac/ax (20MHz) 6 for 802.11n/ac/ax (40MHz) 3 for 802.11ac/ax (80MHz) 5745 ~ 5825MHz: 5 for 802.11a, 802.11n/ac/ax (20MHz) 2 for 802.11n/ac/ax (40MHz) 1 for 802.11ac/ax (80MHz)
MAX. OUTPUT POWER	48.08 mW for 5180 ~ 5240MHz 32.73 mW for 5260 ~ 5320MHz 20.46 mW for 5500 ~ 5700MHz 26.85 mW for 5745 ~ 5825MHz
ANTENNA TYPE*	Dipole Antenna
ANTENNA GAIN*	ANT 1 and ANT 2: 3.52dBi for 5180 ~ 5240MHz 3.52dBi for 5260 ~ 5320MHz 3.52dBi for 5500 ~ 5700MHz 3.52dBi for 5745 ~ 5825MHz
Directional Gain:	For Power/PSD: 3.52dBi(Uncorrelated) for WIFI
Beamforming Directional	N/A



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Gain:	
HW VERSION*	V1.00
SW VERSION*	N/A
I/O PORTS*	Refer to user's manual
CABLE SUPPLIED*	N/A

NOTE:

1. *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, Test Lab is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.
2. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
3. The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitter and two receiver.

MODULATION MODE	TX FUNCTION
802.11a	2TX/2RX
802.11n/802.11ac/ax (20MHz)	2TX/2RX
802.11n/802.11ac/ax (40MHz)	2TX/2RX
802.11ac/ax (80MHz)	2TX/2RX
802.11ax (20MHz RU 26/52/106/242)	2TX/2RX
802.11ax (40MHz RU 26/52/106/242/484)	2TX/2RX
802.11ax (80MHz RU 26/52/106/242/996)	2TX/2RX

4. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
5. Antenna gain and EUT conducted cable loss are provided by the customer, and the laboratory will record the results based on these items that involve these two parameters.



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2.2 DESCRIPTION OF TEST MODES

FOR 5180 ~ 5240MHz

4 channels are provided for 802.11a, 802.11n, 802.11ac/ax (20MHz)/ 802.11ax (20MHz RU 26/52/106/242):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

2 channels are provided for 802.11n, 802.11ac/ax (40MHz)/ 802.11ax (40MHz

RU 26/52/106/242/484):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 26/52/106/242/484/996):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
42	5210 MHz		

FOR 5260 ~ 5320MHz

4 channels are provided for 802.11a, 802.11n, 802.11ac/ax (20MHz)/ 802.11ax (20MHz RU 26/52/106/242/484/996):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
52	5260 MHz	60	5300 MHz
56	5280 MHz	64	5320 MHz

2 channels are provided for 802.11n, 802.11ac/ax (40MHz)/ 802.11ax (40MHz

RU 26/52/106/242/484):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 26/52/106/242/996):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
58	5290 MHz		



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FOR 5500 ~ 5700MHz

12 channels are provided for 802.11a, 802.11n, 802.11ac/ax (20MHz)/ 802.11ax (20MHz RU 26/52/106/242):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
100	5500 MHz	124	5620MHz
104	5520 MHz	128	5640MHz
108	5540 MHz	132	5660 MHz
112	5560 MHz	136	5680 MHz
116	5580 MHz	140	5700 MHz
120	5600 MHz		

6 channels are provided for 802.11n, 802.11ac/ax (40MHz)/ 802.11ax (40MHz

RU 26/52/106/242/484):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
102	5510 MHz	126	5630MHz
110	5550 MHz	134	5670 MHz
118	5590 MHz		

3 channel is provided for 802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 26/52/106/

242/996):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
106	5530 MHz	122	5610 MHz



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FOR 5745 ~ 5825MHz

5 channels are provided for 802.11a, 802.11n, 802.11ac/ax (20MHz)/ 802.11ax (20MHz RU 26/52/106/242):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
149	5745 MHz	161	5805 MHz
153	5765 MHz	165	5825 MHz
157	5785 MHz		

2 channels are provided for 802.11n, 802.11ac/ax (40MHz)/ 802.11ax (40MHz RU 26/52/106/242/484):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
142	5710 MHz	159	5795 MHz
151	5755 MHz		

1 channel is provided for 802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 26/52/106/242/484/996):

CHANNEL	FREQUENCY
155	5775 MHz



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2.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE 1G	RE<1G	PLC	APCM	
A	√	√	√	-	Powered by Adapter with wifi(5G) link
B	-	-	-	√	Powered by Battery with wifi(5G) link
C	-	-	-	-	Powered by USB with wifi(5G) link

Where

RE 1G: Radiated Emission above 1GHz

RE<1G: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission

APCM: Antenna Port Conducted Measurement

NOTE:

The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **X-plane**.

NOTE: “-”means no effect

RADIATED EMISSION TEST (BELOW 1GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- The following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
A	802.11a	5745-5825	142 to 159	159	OFDM	MCS0

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RADIATED EMISSION TEST (ABOVE 1GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- The following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
A	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	6.0
A	802.11n/ac/ax (20MHz)/ 802.11ax (20MHz RU26/52/106/242)		36 to 48	36, 40, 48	OFDM, OFDMA	MCS0
A	802.11n/ac/ax (40MHz)/ 802.11ax (40MHz RU26/52/106/242/484)		38 to 46	38, 46	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU26/52/106/242/484/9 96)		42	42	OFDM, OFDMA	MCS0
A	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6.0
A	802.11n/ac/ax (20MHz)/ 802.11ax (20MHz RU26/52/106/242)		52 to 64	52, 60, 64	OFDM, OFDMA	MCS0
A	802.11n/ac/ax (40MHz)/ 802.11ax (40MHz RU26/52/106/242/484)		54 to 62	54, 62	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU26/52/106/242/484/9 96)		58	58	OFDM, OFDMA	MCS0
A	802.11a	5500-5700	100 to 144	100, 116, 140	OFDM	6.0
A	802.11n/ac/ax (20MHz)/ 802.11ax (20MHz RU26/52/106/242)		100 to 144	100, 116, 140	OFDM, OFDMA	MCS0
A	802.11n/ac/ax (40MHz)/ 802.11ax (40MHz RU26/52/106/242/484)		102 to 142	102, 110, 134	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU26/52/106/242/484/9 96)		106 to 138	106	OFDM, OFDMA	MCS0
A	802.11a	5745-5825	144 to 165	144, 149, 157, 165	OFDM	6.0
A	802.11n/ac/ax (20MHz)/ 802.11ax (20MHz RU26/52/106/242)		144 to 165	144, 149, 157, 165	OFDM, OFDMA	MCS0
A	802.11n/ac/ax (40MHz)/ 802.11ax (40MHz RU26/52/106/242/484)		142 to 159	142, 151, 159	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU26/52/106/242/484/9 96)		138 to 155	138, 155	OFDM, OFDMA	MCS0



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POWER LINE CONDUCTED EMISSION TEST:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- The following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
A	802.11a	5745-5825	142 to 159	159	OFDM	MCS0

BANDEDGE MEASUREMENT:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- The following channel(s) was (were) selected for the final test as listed below.



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EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATIO N	DATA RATE (Mbps)
A	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	6.0
A	802.11n/ac/ax (20MHz)/ 802.11ax (20MHz RU26/52/106/242)		36 to 48	36, 40, 48	OFDM, OFDMA	MCS0
A	802.11n/ac/ax (40MHz)/ 802.11ax (40MHz RU26/52/106/242/484)		38 to 46	38, 46	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU26/52/106/242/484/9 96)		42	42	OFDM, OFDMA	MCS0
A	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6.0
A	802.11n/ac/ax (20MHz)/ 802.11ax (20MHz RU26/52/106/242)		52 to 64	52, 60, 64	OFDM, OFDMA	MCS0
A	802.11n/ac/ax (40MHz)/ 802.11ax (40MHz RU26/52/106/242/484)		54 to 62	54, 62	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU26/52/106/242/484/9 96)		58	58	OFDM, OFDMA	MCS0
A	802.11a	5500-5700	100 to 144	100, 116, 140	OFDM	6.0
A	802.11n/ac/ax (20MHz)/ 802.11ax (20MHz RU26/52/106/242)		100 to 144	100, 116, 140	OFDM, OFDMA	MCS0
A	802.11n/ac/ax (40MHz)/ 802.11ax (40MHz RU26/52/106/242/484)		102 to 142	102, 110, 134	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU26/52/106/242/484/9 96)		106 to 138	106	OFDM, OFDMA	MCS0
A	802.11a	5745-5825	144 to 165	144, 149, 157, 165	OFDM	6.0
A	802.11n/ac/ax (20MHz)/ 802.11ax (20MHz RU26/52/106/242)		144 to 165	144, 149, 157, 165	OFDM, OFDMA	MCS0
A	802.11n/ac/ax (40MHz)/ 802.11ax (40MHz RU26/52/106/242/484)		142 to 159	142, 151, 159	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU26/52/106/242/484/9 96)		138, 155	138, 155	OFDM, OFDMA	MCS0



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ANTENNA PORT CONDUCTED MEASUREMENT:

- This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- The following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATIO N	DATA RATE (Mbps)
A	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	6.0
A	802.11n/ac/ax (20MHz)/ 802.11ax (20MHz RU26/52/106/242)		36 to 48	36, 40, 48	OFDM, OFDMA	MCS0
A	802.11n/ac/ax (40MHz)/ 802.11ax (40MHz RU26/52/106/242/484)		38 to 46	38, 46	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU26/52/106/242/484/9 96)		42	42	OFDM, OFDMA	MCS0
A	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6.0
A	802.11n/ac/ax (20MHz)/ 802.11ax (20MHz RU26/52/106/242)		52 to 64	52, 60, 64	OFDM, OFDMA	MCS0
A	802.11n/ac/ax (40MHz)/ 802.11ax (40MHz RU26/52/106/242/484)		54 to 62	54, 62	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU26/52/106/242/484/9 96)		58	58	OFDM, OFDMA	MCS0
A	802.11a	5500-5700	100 to 144	100, 116, 140	OFDM	6.0
A	802.11n/ac/ax (20MHz)/ 802.11ax (20MHz RU26/52/106/242)		100 to 144	100, 116, 140	OFDM, OFDMA	MCS0
A	802.11n/ac/ax (40MHz)/ 802.11ax (40MHz RU26/52/106/242/484)		102 to 142	102, 110, 134	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU26/52/106/242/484/9 96)		106 to 138	106	OFDM, OFDMA	MCS0
A	802.11a	5745-5825	144 to 165	144, 149, 157, 165	OFDM	6.0
A	802.11n/ac/ax (20MHz)/ 802.11ax (20MHz RU26/52/106/242)		144 to 165	144, 149, 157, 165	OFDM, OFDMA	MCS0



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A	802.11n/ac/ax (40MHz)/ 802.11ax (40MHz RU26/52/106/242/484)		142 to 159	142, 151, 159	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU26/52/106/242/484/9 96)		138,155	138, 155	OFDM, OFDMA	MCS0

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE<1G	23deg. C, 70%RH	DC 3.3V By DC Supply	Jace Hu
RE ³ 1G	23deg. C, 70%RH	DC 3.3V By DC Supply	Jace Hu
PLC	25deg. C, 52%RH	DC 3.3V By DC Supply	James Fu
APCM	25deg. C, 60%RH	DC 3.6V By DC Supply	James Fu

2.3 DUTY CYCLE OF TEST SIGNAL

Please Refer to Appendix A/B Of this test report.



2.4 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.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Desktop	Lenovo	M73 SFF	PC04GRQV	N/A
2	Desktop	Lenovo	M73 SFF	PC06CS27	N/A
3	Laptop	Lenovo	ThinkpadL440	R90FTFKN	N/A
4	DC source	Kikusui/JP	PMX18-5A	0000001	N/A

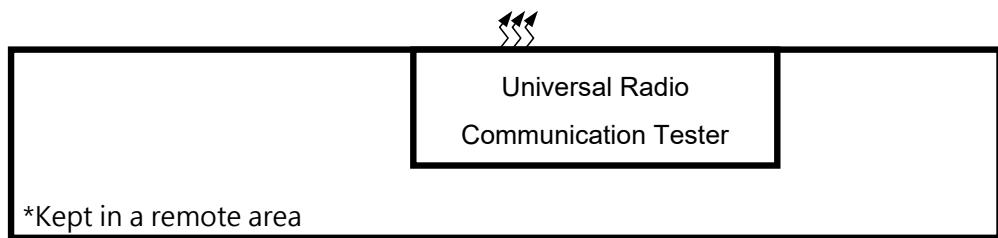
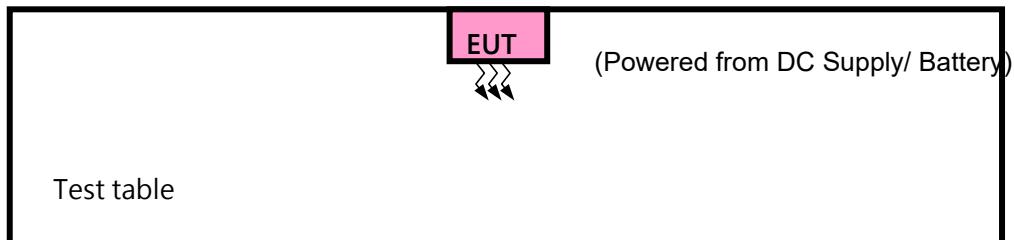
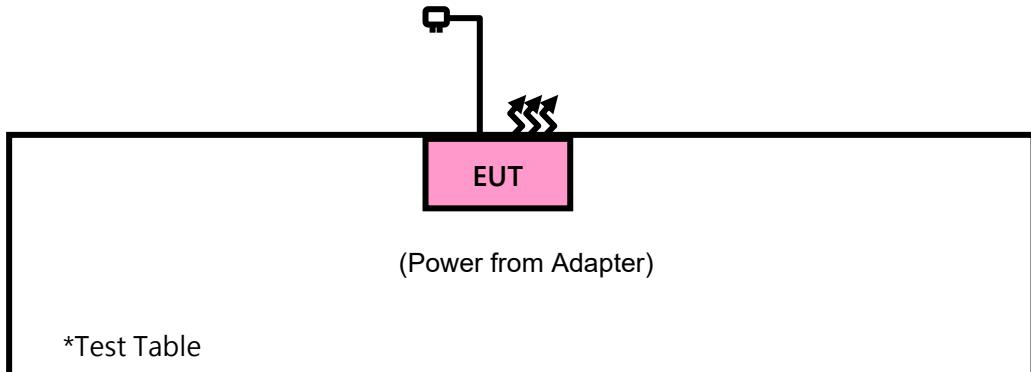
NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	AC Line: Unshielded, Detachable 1.5m
2	AC Line: Unshielded, Detachable 1.5m
3	AC Line: Unshielded, Detachable 1.5m
4	DC Line: Unshielded, Detachable 1.0m



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Test Report No.: PSU-NQN2502260117RF03

2.4.1 CONFIGURATION OF SYSTEM UNDER TEST





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2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart E (15.407)

KDB 789033 D02 General U-NII Test Procedures New Rules v02r01

ANSI C63.10-2020

All test items have been performed and recorded as per the above standards.

NOTE: The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (Certification). The test report has been issued separately.



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Test Report No.: PSU-NQN2502260117RF03

3 TEST TYPES AND RESULTS

3.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT

3.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dB μ V/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

3.1.2 LIMITS OF UNWANTED EMISSION

RESTRICTED BANDS	APPLICABLE TO	LIMIT	
		FIELD STRENGTH AT 3m (dB μ V/m)	
	PK : 74	AV : 54	
OUT OF THE RESTRICTED BANDS	APPLICABLE TO	EIRP LIMIT (dBm/MHz)	EQUIVALENT FIELD STRENGTH AT 3m (dB μ V/m)
	15.407(b)(1)	PK : -27	PK : 68.2
	15.407(b)(2)		
	15.407(b)(3)		
	15.407(b)(4)	See note 2 (FCC 16-24)	



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Test Report No.: PSU-NQN2502260117RF03

NOTE: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m}, \text{ where } P \text{ is the eirp (Watts).}$$

2. All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

3.1.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Pre-Amplifier	R&S	SCU18F1	100815	Aug.30,23	Aug.29,25
Pre-Amplifier	R&S	SCU08F1	101028	Jan.22,24	Jan.21,26
Signal Generator	R&S	SMB100A	182185	Mar.29,24	Mar.28,26
3m Fully-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-EMC-01Chamber	Nov.25,22	Nov.24,25
3m Semi-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-EMC-02Chamber	Nov.25,22	Nov.24,25
EMI TEST Receiver	R&S	ESW44	101973	Mar.28,24	Mar.27,26
Bilog Antenna	SCHWARZBEC K	VULB 9163	1264	Dec.26,23	Dec.25,25
Horn Antenna	ETS-LINDGREN	3117	227836	Aug.22,23	Aug.21,25
Horn Antenna (18GHz-40GHz)	Steatite Q-par Antennas	QMS 00880	23486	Jul.15,24	Jul.14,26
Horn Antenna	Steatite Q-par Antennas	QMS 00208	23485	Aug.22,23	Aug.21,25
Loop Antenna	SCHWARZ	HFH2-Z2/Z2E	100976	Feb.23,23	Feb.22,25
Loop Antenna	SCHWARZ	HFH2-Z2/Z2E	100976	Feb.22,25	Feb.21,27
WIDEBANDRADIO COMMUNICATION TESTER	R&S	CMW500	169399	Jun.19,24	Jun.18,26
Test Software	ELEKTRA	ELEKTRA4.32	N/A	N/A	N/A
Open Switch and Control Unit	R&S	OSP220	101964	N/A	N/A
DC Source	HYELEC	HY3010B	551016	Aug.31,23	Aug.30,25
Hygrothermograph	DELI	20210528	SZ014	Sep.06,23	Sep.05,25
6DB attenuator	Tonscend Technology Co., Ltd	N/A	23062787	N/A	N/A
PC	LENOVO	E14	HRSP0024	N/A	N/A
TMC-AMI18843A(CA BLE)	R&S	HF290-NMNM-7.00M	N/A	N/A	N/A
TMC-AMI18843A(CA BLE)	R&S	HF290-NMNM-4.00M	N/A	N/A	N/A



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CABLE	R&S	W13.02	N/A	Apr.27,24	Apr.26,25
CABLE	R&S	W12.14	N/A	Apr.27,24	Apr.26,25

NOTE: 1. The calibration interval of the above test instruments is 12/ 24 /36 months and the calibrations are traceable to CEPREI/CHINA, GRRGT/CHINA and NIM/CHINA.

2. The test was performed in 3m Chamber.

3. The FCC Site Registration No. is 434559; The Designation No. is CN1325.



3.1.4 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters (for below 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average (Duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor ($10 \log(1/\text{duty cycle})$).
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
5. All modes of operation were investigated and the worst-case emissions are reported.

3.1.5 DEVIATION FROM TEST STANDARD

No deviation.

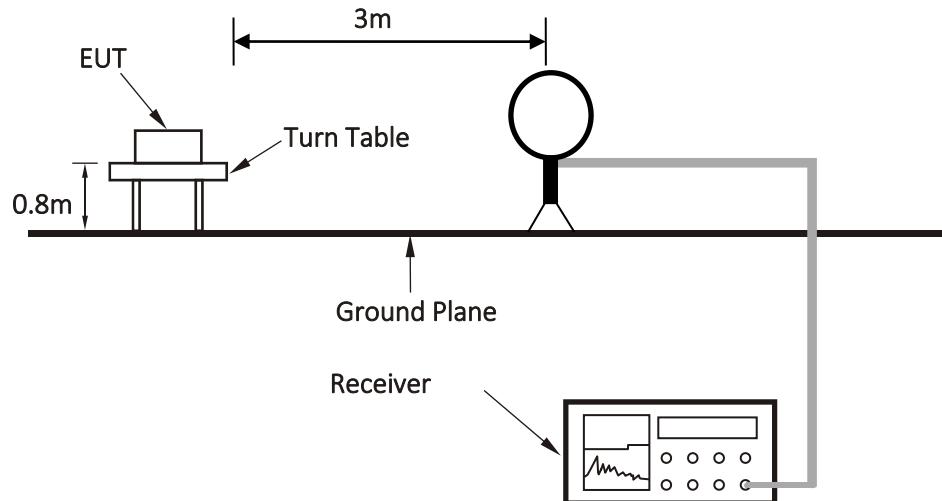


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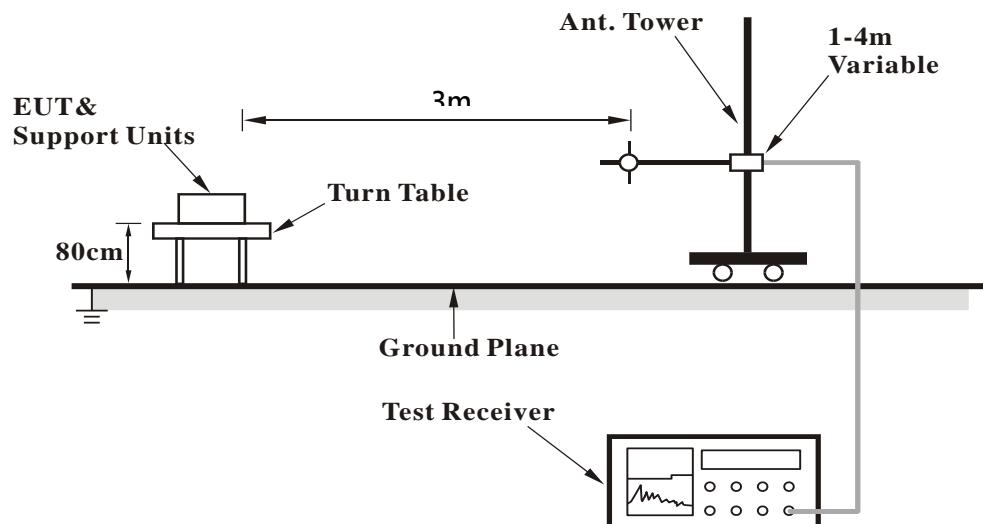
Test Report No.: PSU-NQN2502260117RF03

3.1.6 TEST SETUP

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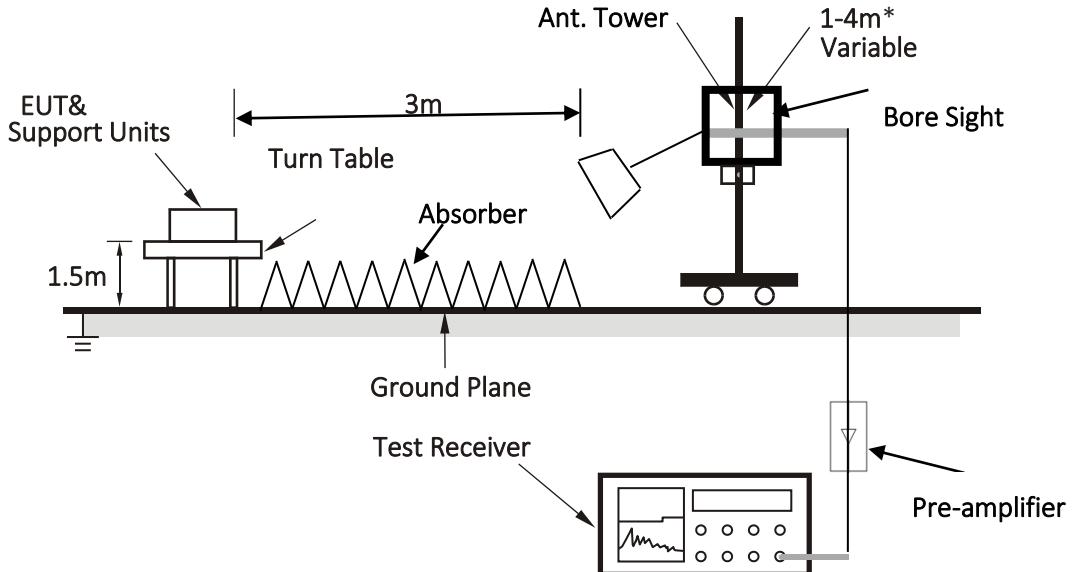


< Frequency Range 30MHz~1GHz >





<Frequency Range above 1GHz>



Note: Above 1G is a directional antenna

Depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

3.1.7 EUT OPERATING CONDITION

- Set the EUT under full load condition and placed them on a testing table.
- Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.
- The necessary accessories enable the EUT in full functions.



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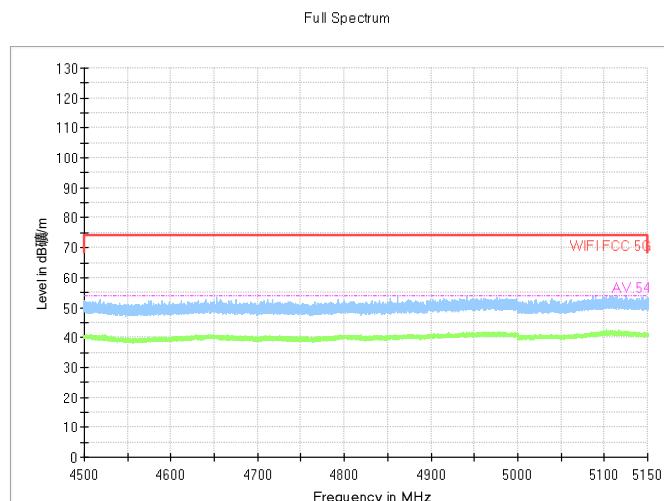
Test Report No.: PSU-NQN2502260117RF03

3.1.8 TEST RESULTS

NOTE : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

Radiated Emission Band Edge for WIFI

20M

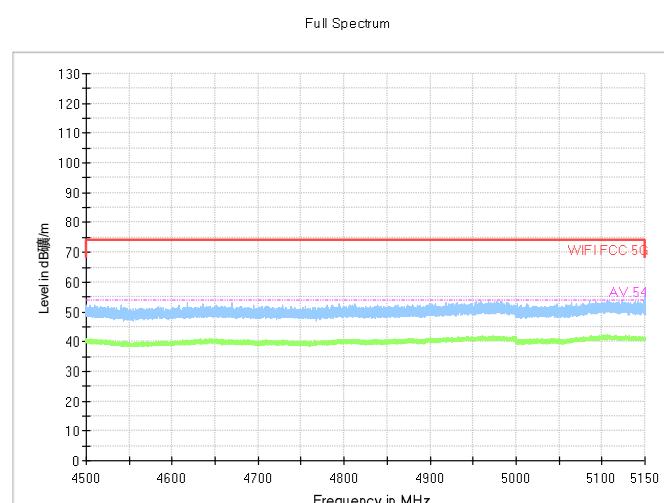


Radiated Emission Band Edge

Channel No.:36

Test Mode: 802.11a

Polarization: V



Radiated Emission Band Edge

Channel No.:36

Test Mode: 802.11a

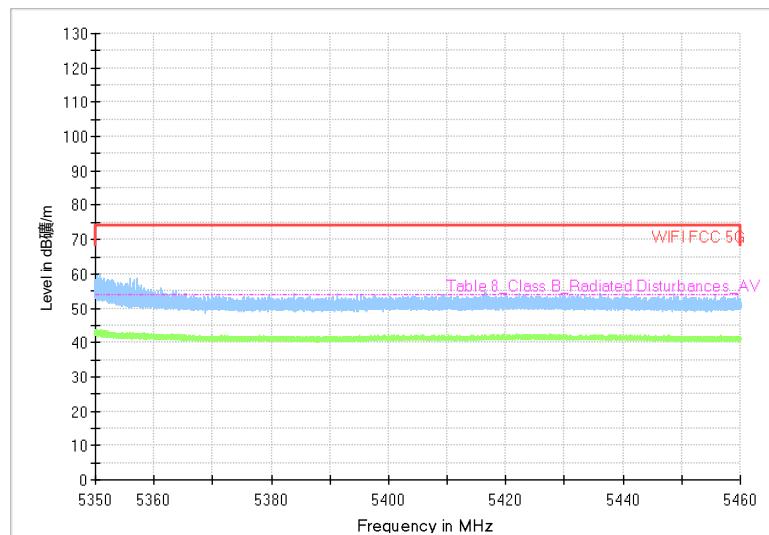
Polarization: H



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Test Report No.: PSU-NQN2502260117RF03

Full Spectrum



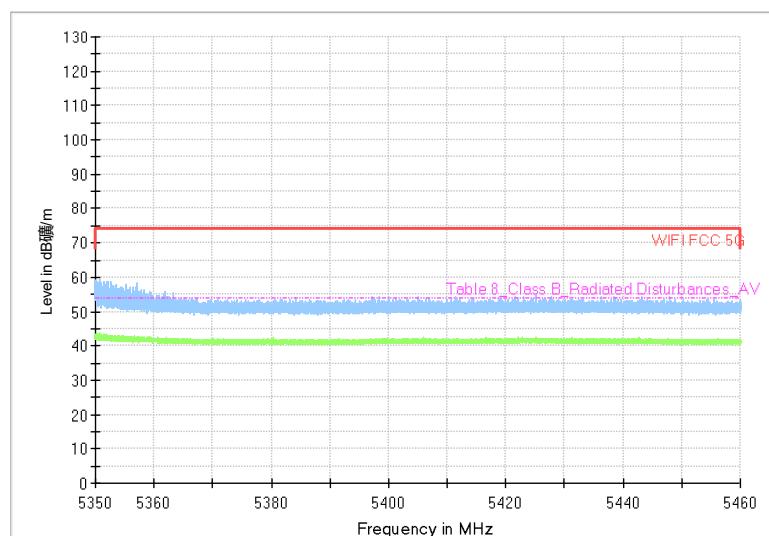
Radiated Emission Band Edge

Channel No.:64

Test Mode: 802.11a

Polarization: V

Full Spectrum



Radiated Emission Band Edge

Channel No.:64

Test Mode: 802.11a

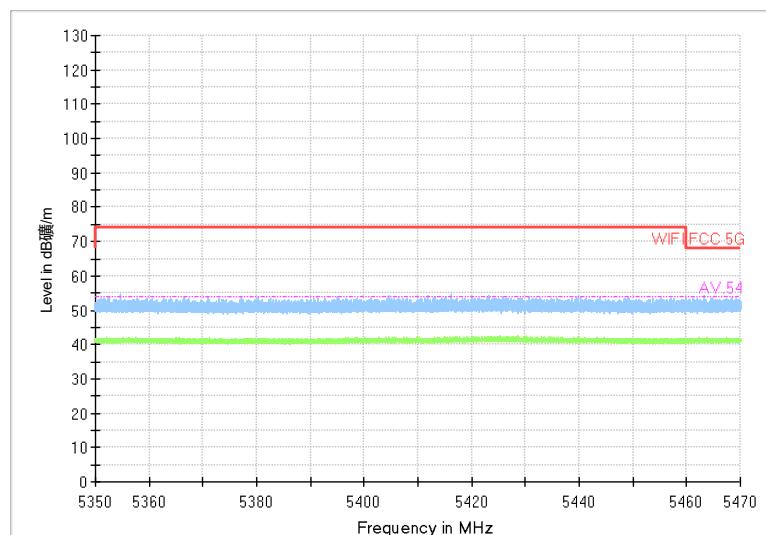
Polarization: H



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VERITAS

Test Report No.: PSU-NQN2502260117RF03

Full Spectrum



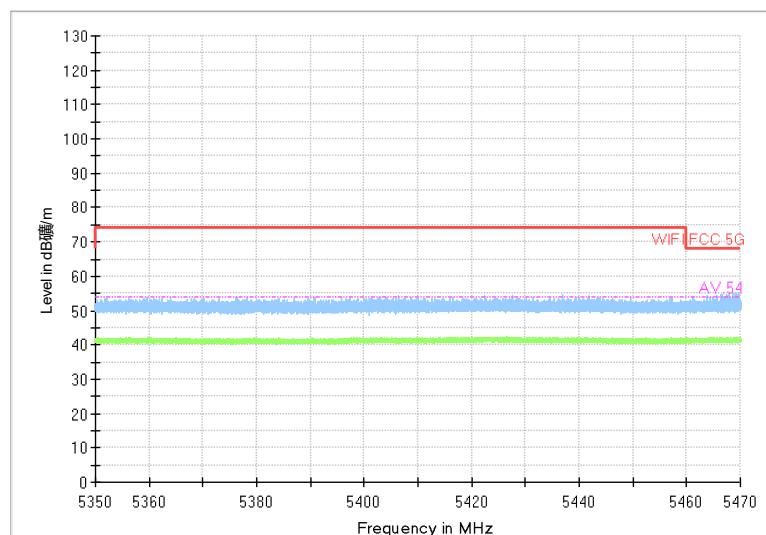
Radiated Emission Band Edge

Channel No.:100

Test Mode: 802.11a

Polarization: V

Full Spectrum



Radiated Emission Band Edge

Channel No.:100

Test Mode: 802.11a

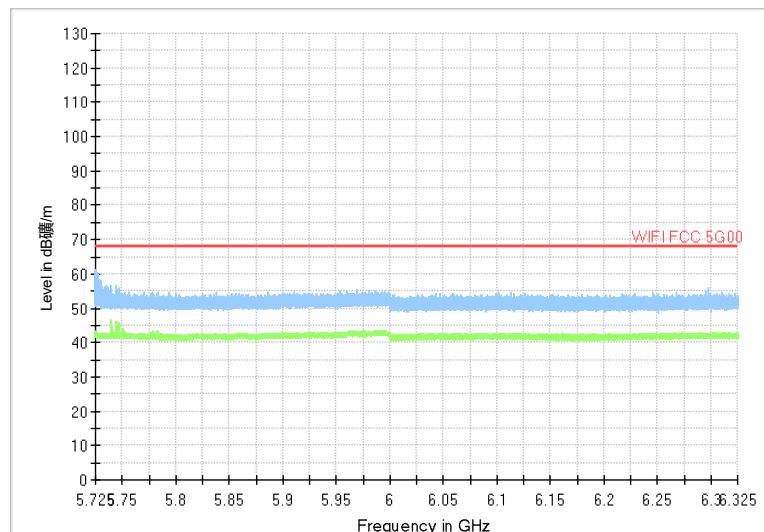


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Test Report No.: PSU-NQN2502260117RF03

Polarization: H

Full Spectrum



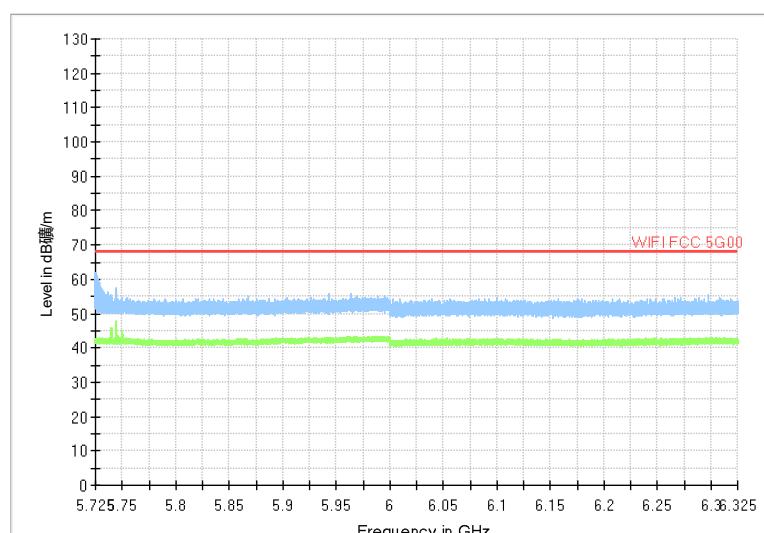
Radiated Emission Band Edge

Channel No.:140

Test Mode: 802.11a

Polarization: V

Full Spectrum



Radiated Emission Band Edge

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Tel: +86 (0557) 368 1008



Test Report No.: PSU-NQN2502260117RF03

Channel No.:140

Test Mode: 802.11a

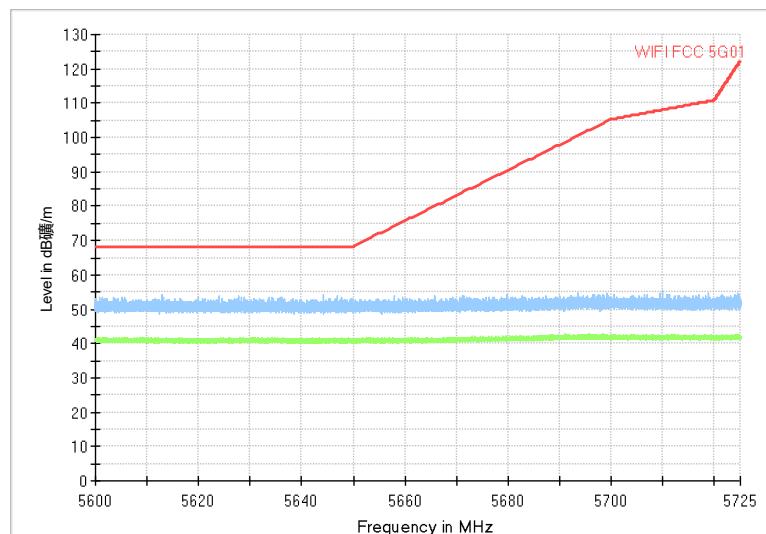
Polarization: H



BUREAU
VERITAS

Test Report No.: PSU-NQN2502260117RF03

Full Spectrum



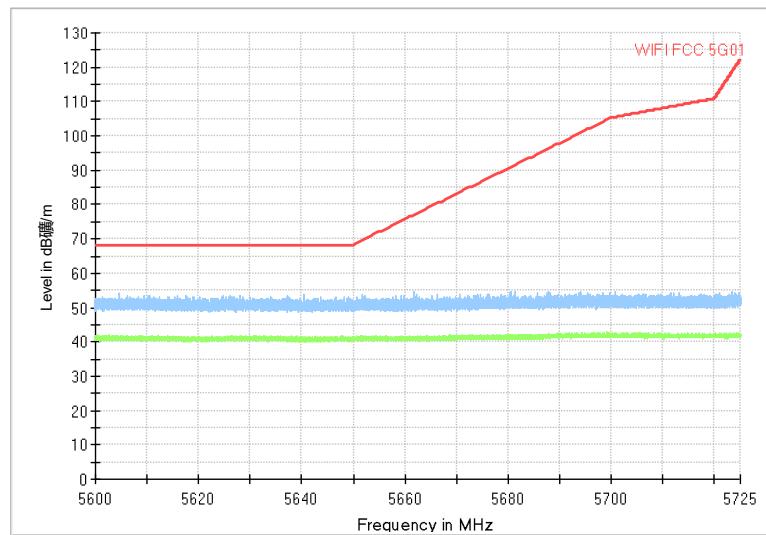
Radiated Emission Band Edge

Channel No.:149

Test Mode: 802.11a

Polarization: V

Full Spectrum



Radiated Emission Band Edge

Channel No.:149

Test Mode: 802.11a

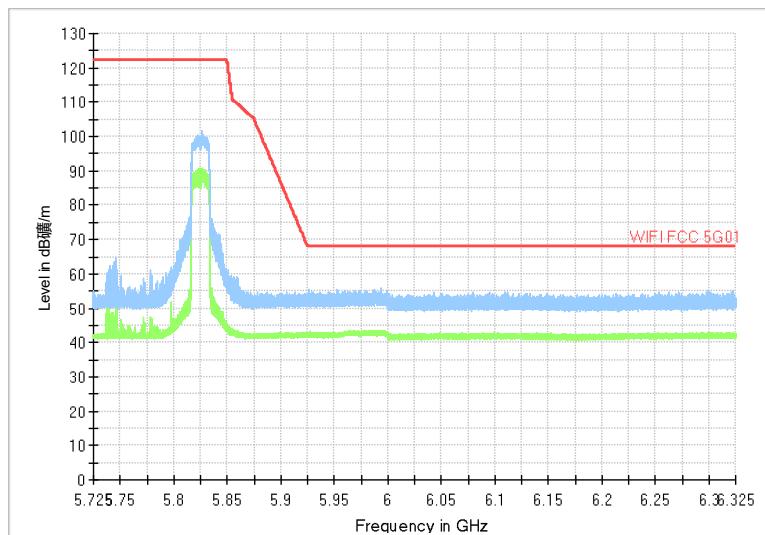
Polarization: H



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VERITAS

Test Report No.: PSU-NQN2502260117RF03

Full Spectrum



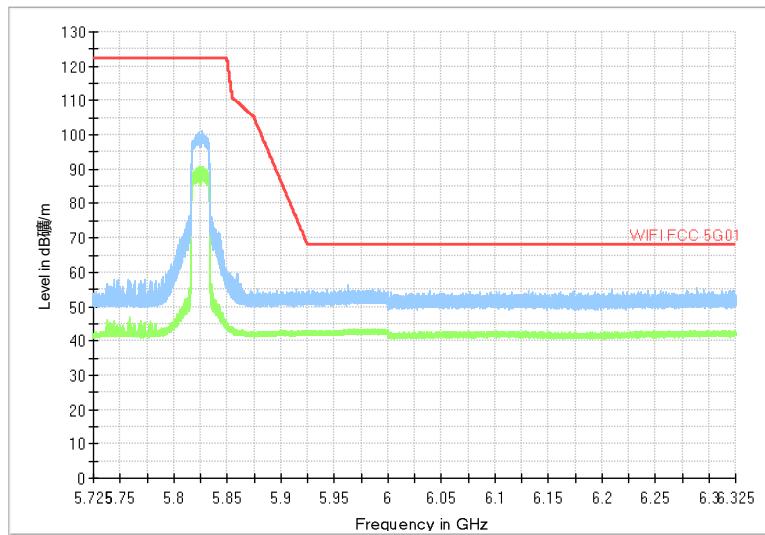
Radiated Emission Band Edge

Channel No.:165

Test Mode: 802.11a

Polarization: V

Full Spectrum



Radiated Emission Band Edge

Channel No.:165

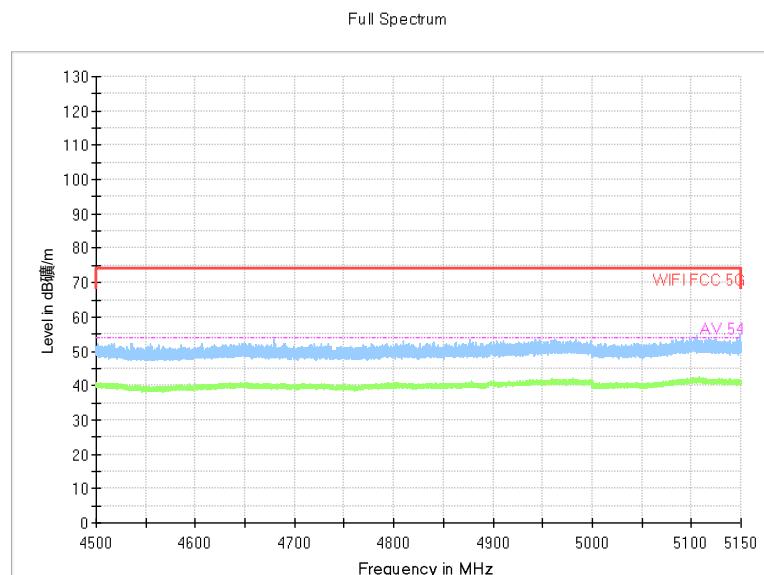
Test Mode: 802.11a



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VERITAS

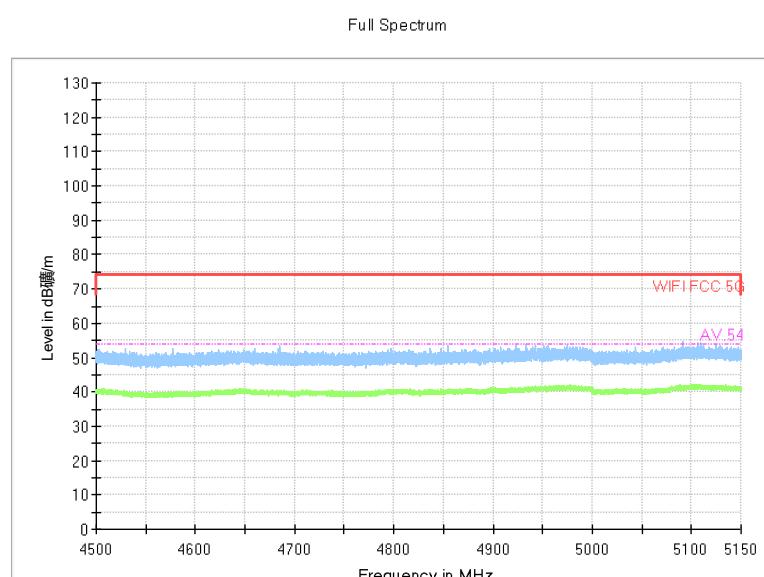
Test Report No.: PSU-NQN2502260117RF03

Polarization: H



Radiated Emission Band Edge
Channel No.:36
Test Mode: 802.11n

Polarization: V



Radiated Emission Band Edge

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Tel: +86 (0557) 368 1008



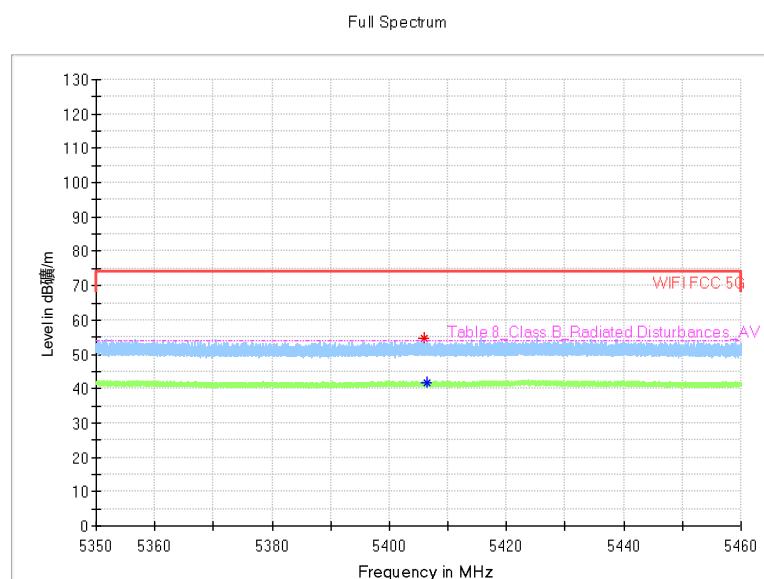
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VERITAS

Test Report No.: PSU-NQN2502260117RF03

Channel No.:36

Test Mode: 802.11n

Polarization: H



Radiated Emission Band Edge

Channel No.:64

Test Mode: 802.11n

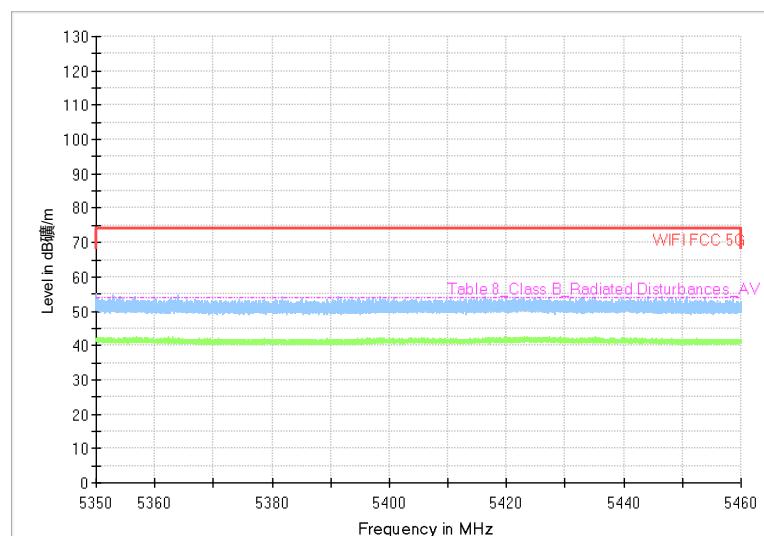
Polarization: V



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VERITAS

Test Report No.: PSU-NQN2502260117RF03

Full Spectrum



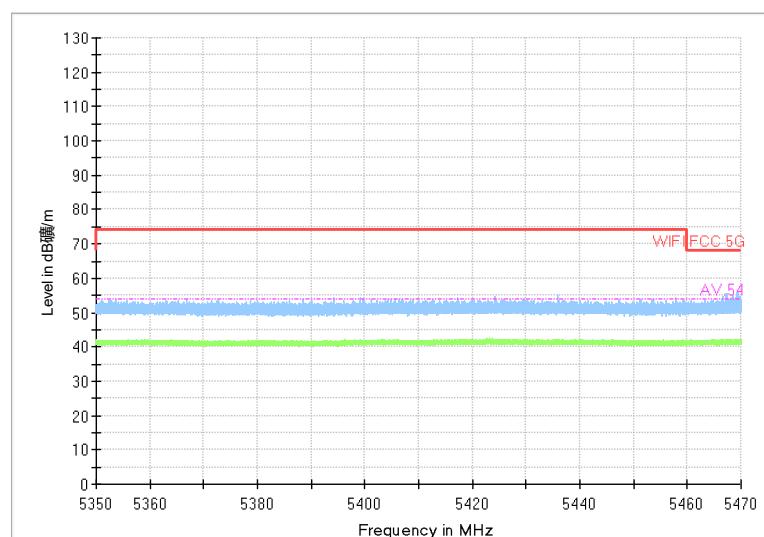
Radiated Emission Band Edge

Channel No.:64

Test Mode: 802.11n

Polarization: H

Full Spectrum



Radiated Emission Band Edge

Channel No.:100

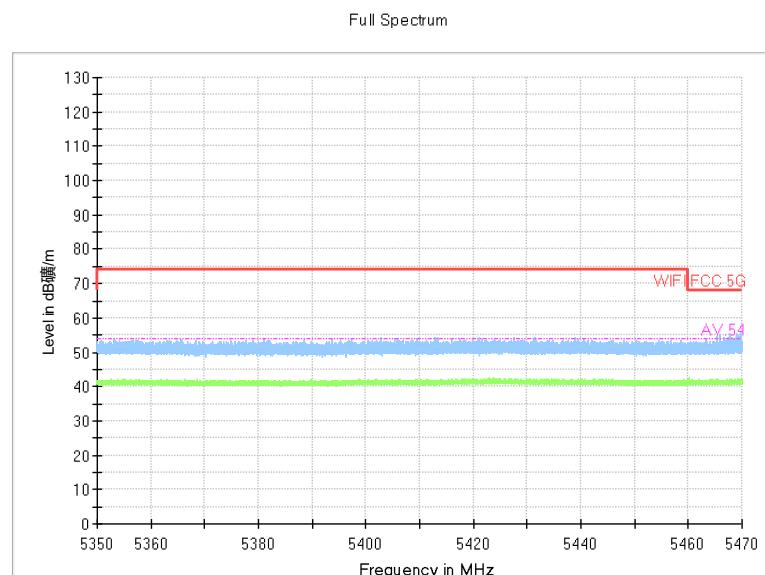
Test Mode: 802.11n



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VERITAS

Test Report No.: PSU-NQN2502260117RF03

Polarization: V

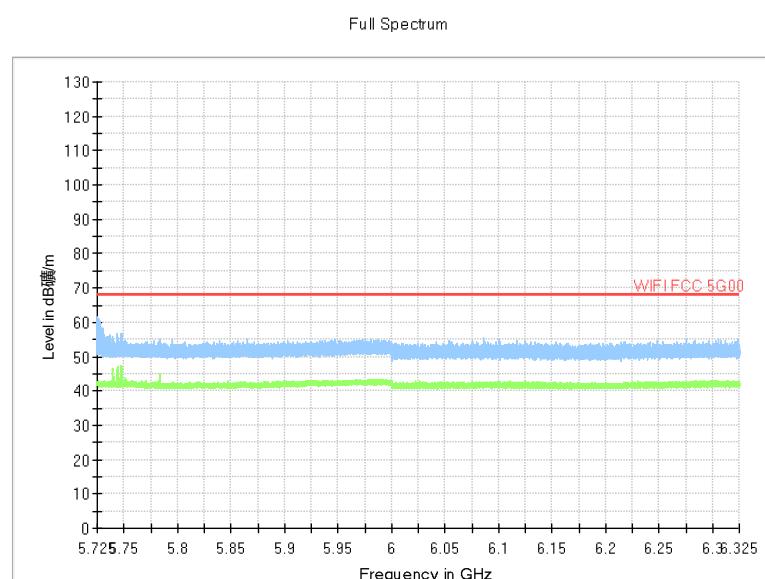


Radiated Emission Band Edge

Channel No.:100

Test Mode: 802.11n

Polarization: H





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VERITAS

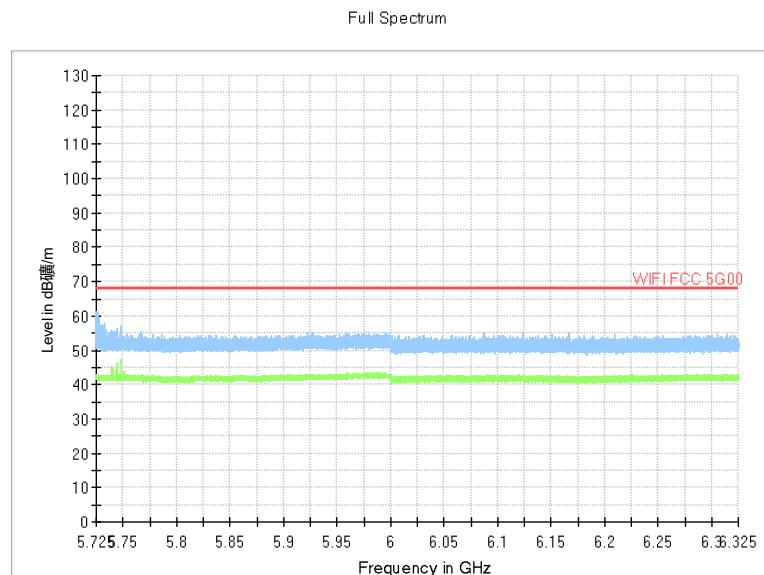
Test Report No.: PSU-NQN2502260117RF03

Radiated Emission Band Edge

Channel No.:140

Test Mode: 802.11n

Polarization: V



Radiated Emission Band Edge

Channel No.:140

Test Mode: 802.11n

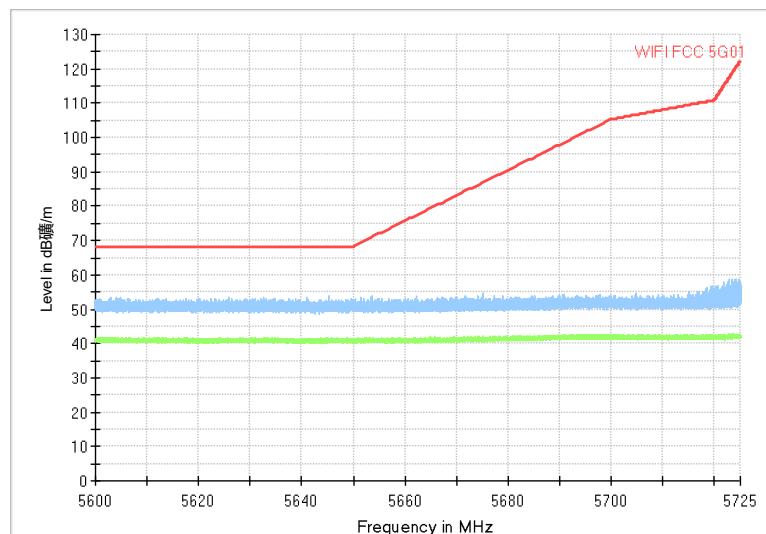
Polarization: H



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VERITAS

Test Report No.: PSU-NQN2502260117RF03

Full Spectrum



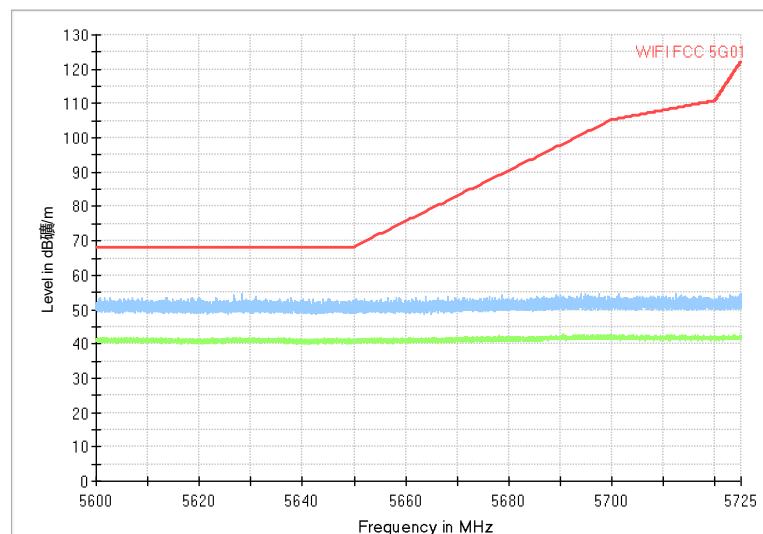
Radiated Emission Band Edge

Channel No.:149

Test Mode: 802.11n

Polarization: V

Full Spectrum



Radiated Emission Band Edge

Channel No.:149

Test Mode: 802.11n

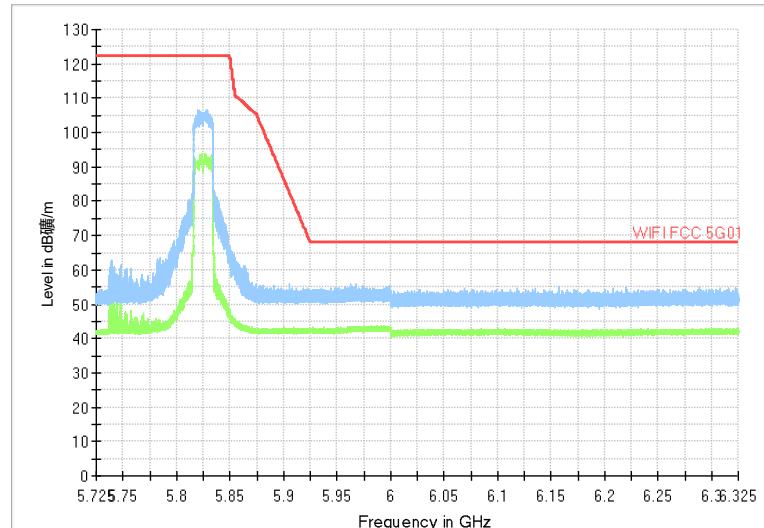
Polarization: H



BUREAU
VERITAS

Test Report No.: PSU-NQN2502260117RF03

Full Spectrum



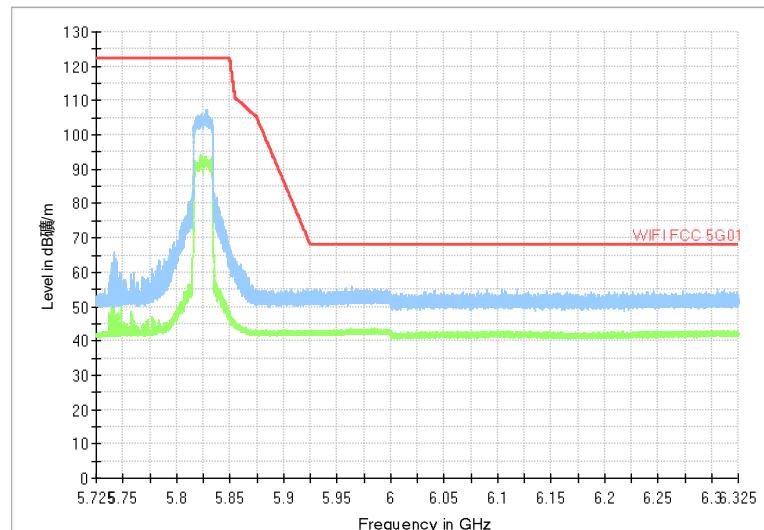
Radiated Emission Band Edge

Channel No.:165

Test Mode: 802.11n

Polarization: V

Full Spectrum



Radiated Emission Band Edge

Channel No.:165

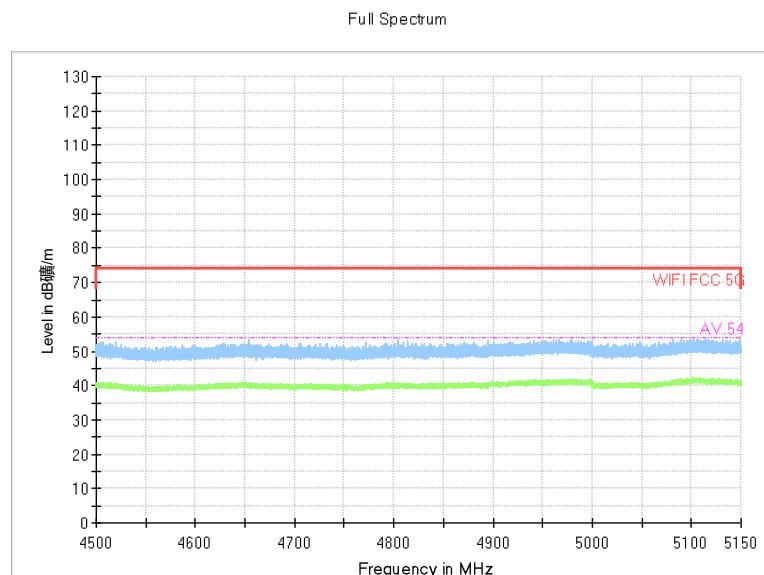
Test Mode: 802.11n



BUREAU
VERITAS

Test Report No.: PSU-NQN2502260117RF03

Polarization: H

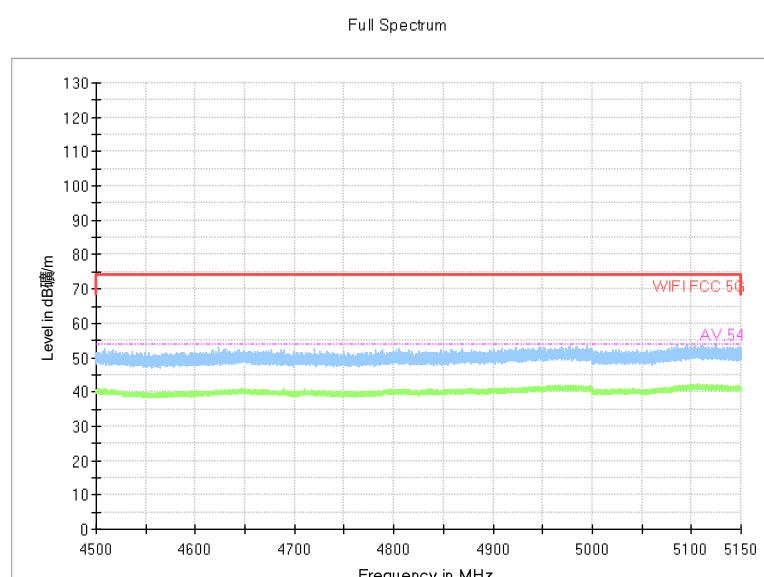


Radiated Emission Band Edge

Channel No.:36

Test Mode: 802.11ac

Polarization: V



Radiated Emission Band Edge

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Tel: +86 (0557) 368 1008



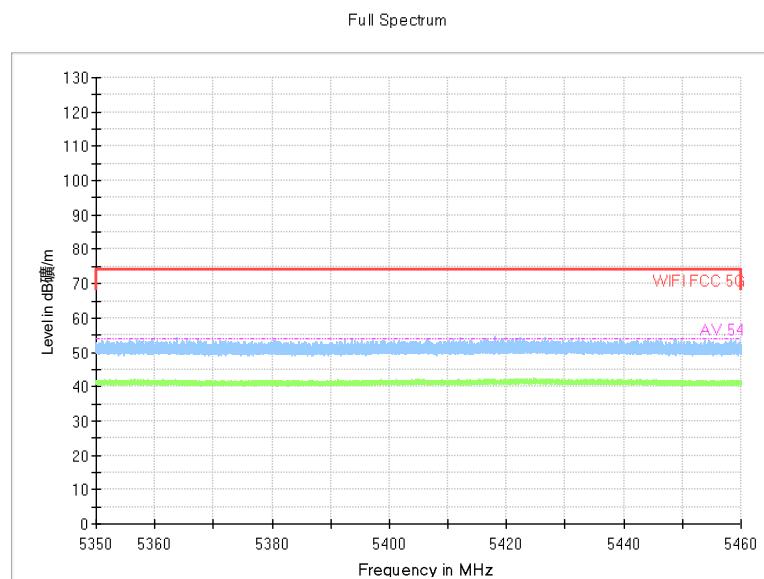
BUREAU
VERITAS

Test Report No.: PSU-NQN2502260117RF03

Channel No.:36

Test Mode: 802.11ac

Polarization: H



Radiated Emission Band Edge

Channel No.:64

Test Mode: 802.11ac

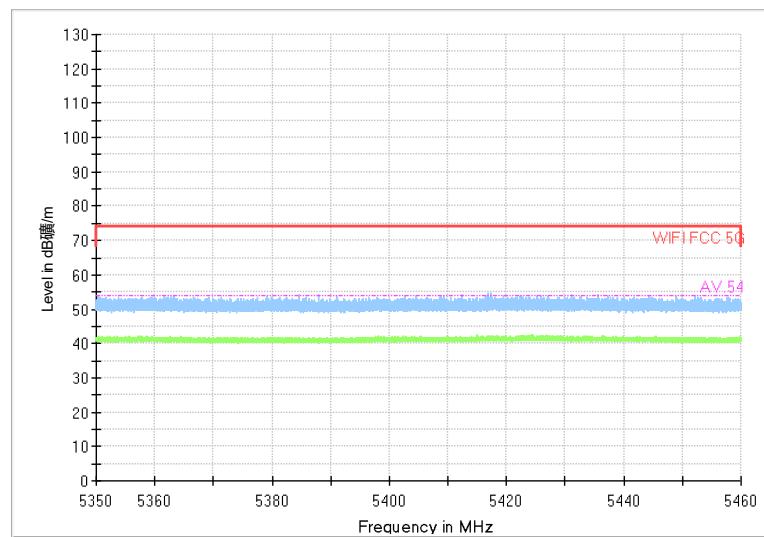
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VERITAS

Test Report No.: PSU-NQN2502260117RF03

Full Spectrum



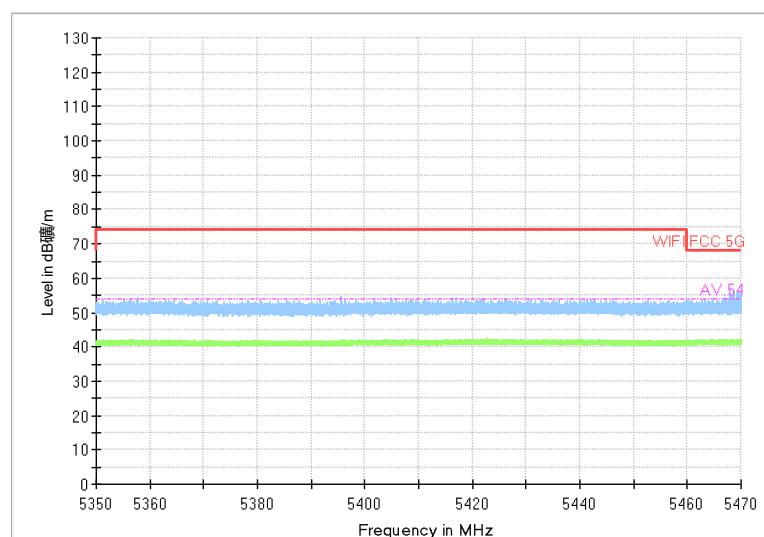
Radiated Emission Band Edge

Channel No.:64

Test Mode: 802.11ac

Polarization: H

Full Spectrum



Radiated Emission Band Edge

Channel No.:100

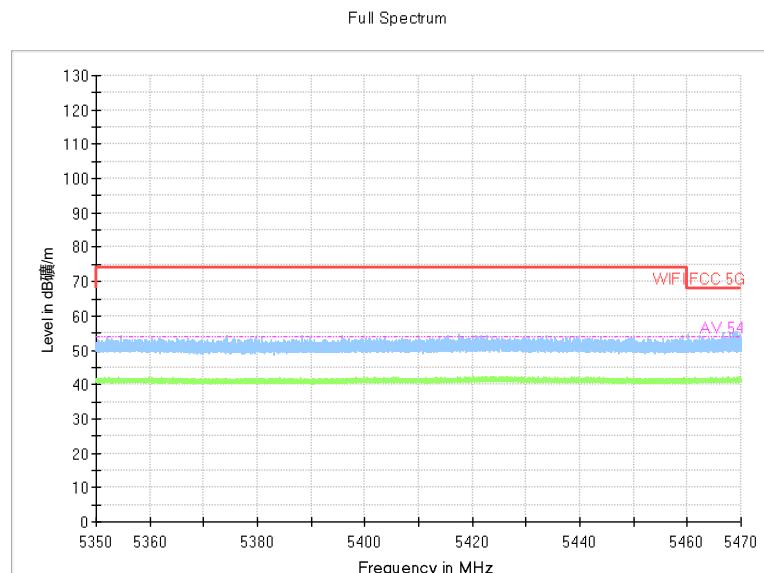
Test Mode: 802.11ac



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VERITAS

Test Report No.: PSU-NQN2502260117RF03

Polarization: V

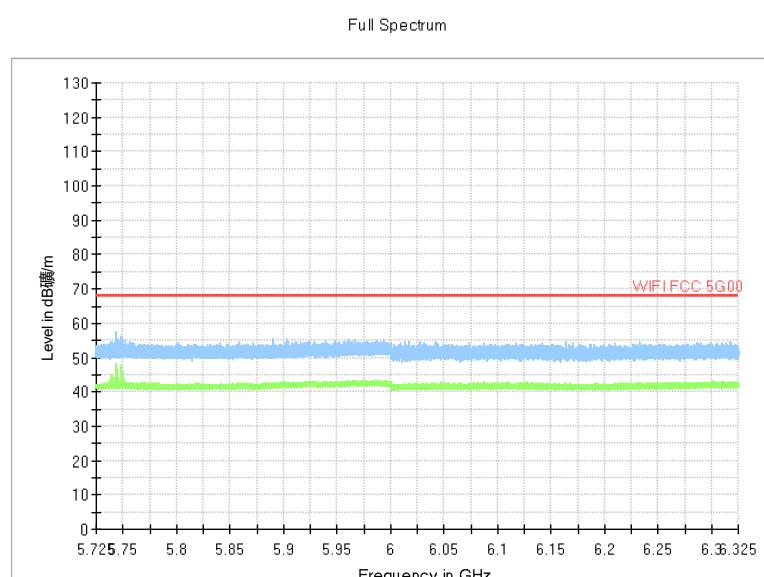


Radiated Emission Band Edge

Channel No.:100

Test Mode: 802.11ac

Polarization: H



Radiated Emission Band Edge

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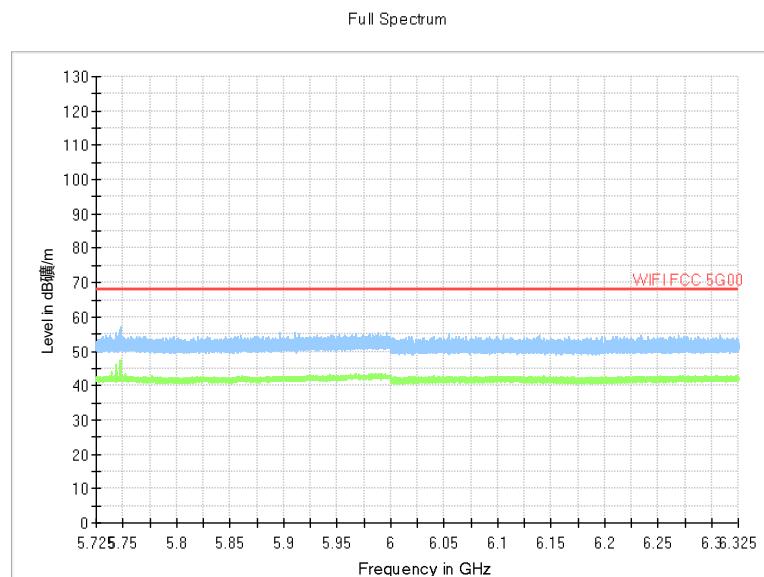
BUREAU
VERITAS

Test Report No.: PSU-NQN2502260117RF03

Channel No.:140

Test Mode: 802.11ac

Polarization: V



Radiated Emission Band Edge

Channel No.:140

Test Mode: 802.11ac

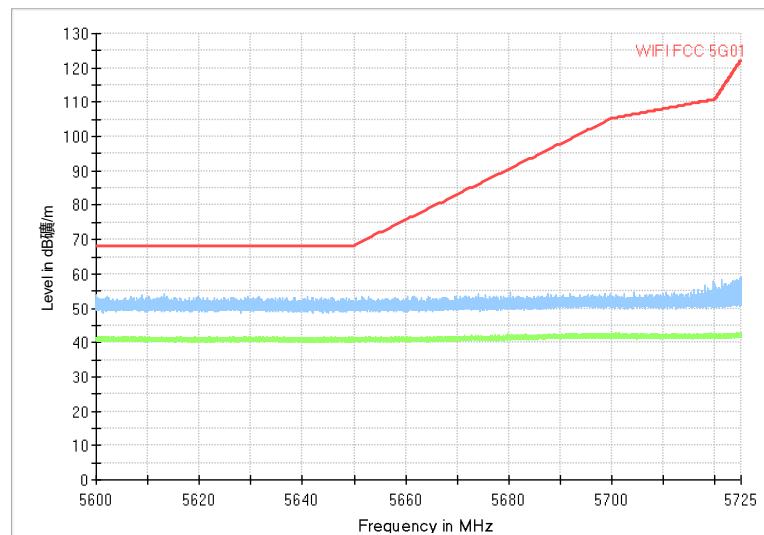
Polarization: H



BUREAU
VERITAS

Test Report No.: PSU-NQN2502260117RF03

Full Spectrum



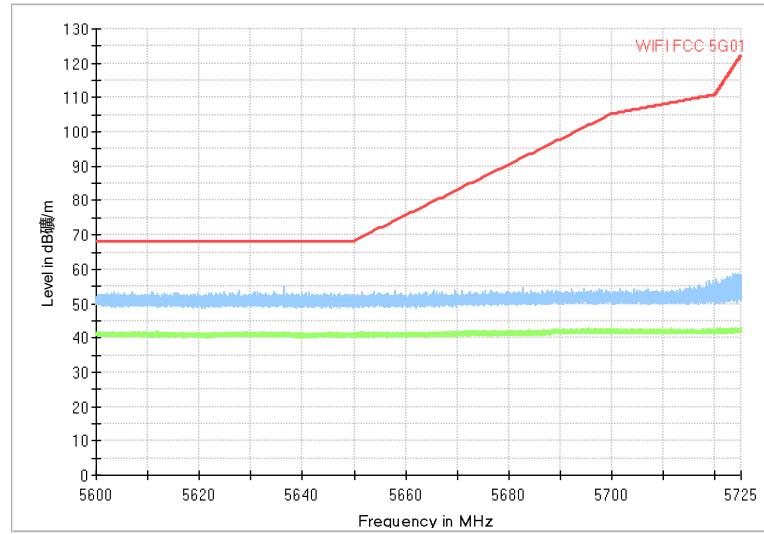
Radiated Emission Band Edge

Channel No.:149

Test Mode: 802.11ac

Polarization: V

Full Spectrum



Radiated Emission Band Edge

Channel No.:149

Test Mode: 802.11ac

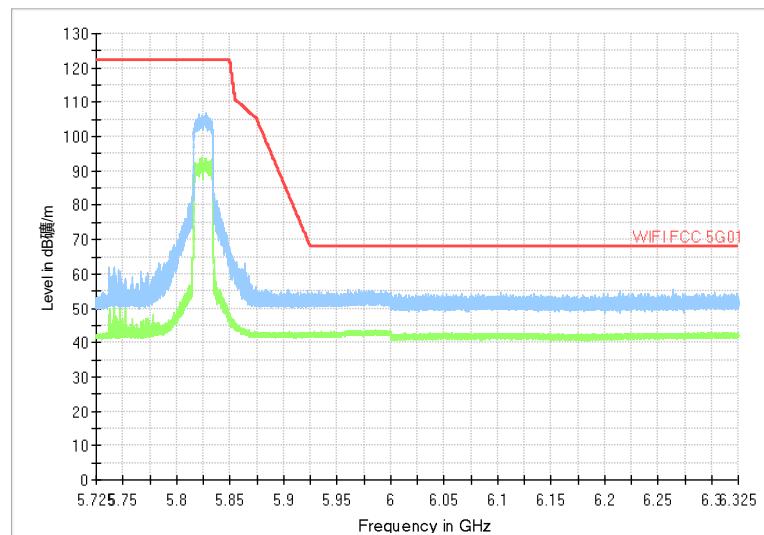


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VERITAS

Test Report No.: PSU-NQN2502260117RF03

Polarization: H

Full Spectrum



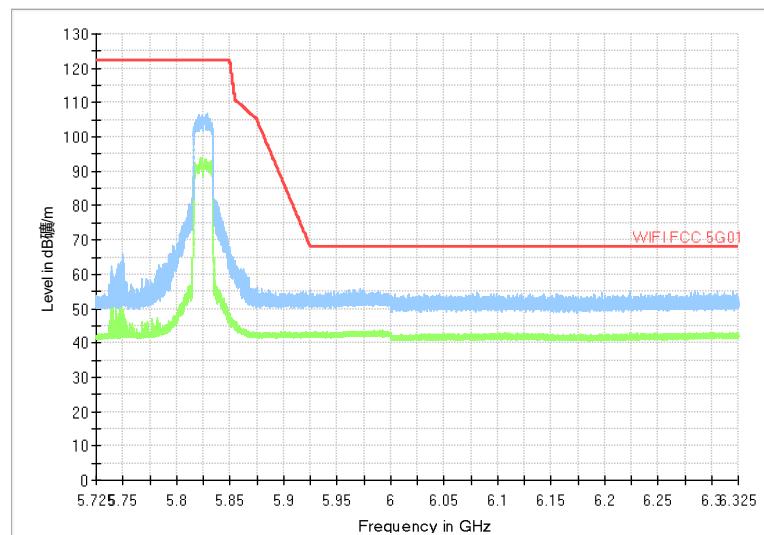
Radiated Emission Band Edge

Channel No.:165

Test Mode: 802.11ac

Polarization: V

Full Spectrum



Radiated Emission Band Edge

Huarui 7layers High Technology
(Suzhou) Co., Ltd.

Tower N, Innovation Center, 88 Zuyi Road, High-tech
District, Suzhou City, Anhui Province

Tel: +86 (0557) 368 1008



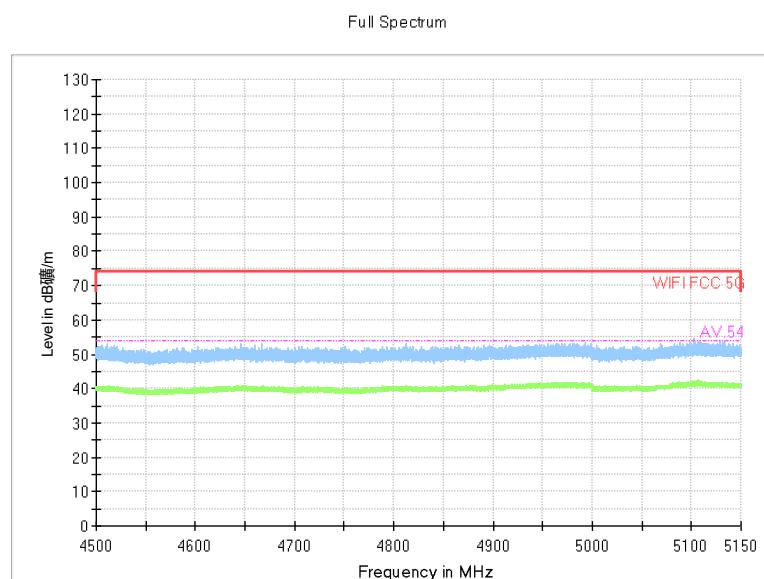
BUREAU
VERITAS

Test Report No.: PSU-NQN2502260117RF03

Channel No.:165

Test Mode: 802.11ac

Polarization: H



Radiated Emission Band Edge

Channel No.:36

Test Mode: 802.11 ax

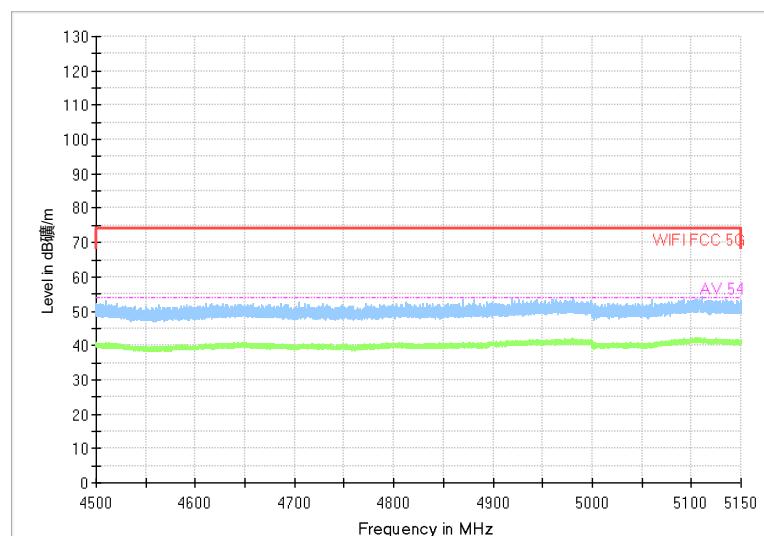
Polarization: V



BUREAU
VERITAS

Test Report No.: PSU-NQN2502260117RF03

Full Spectrum



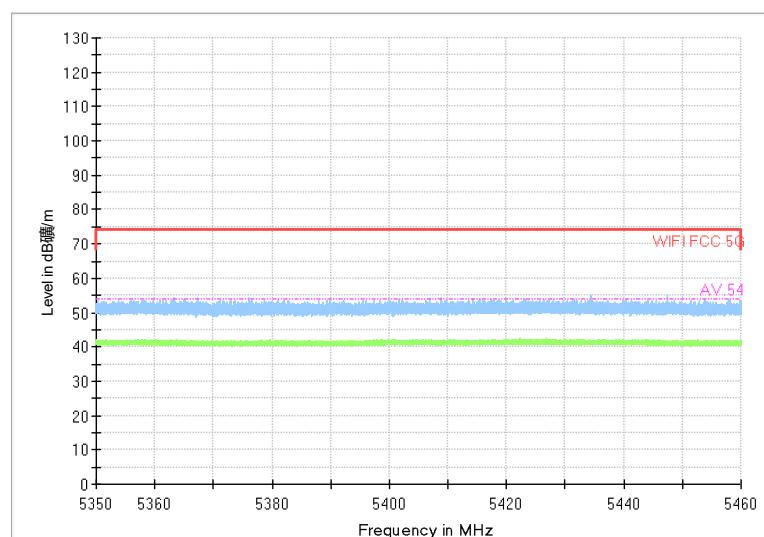
Radiated Emission Band Edge

Channel No.:36

Test Mode: 802.11 ax

Polarization: H

Full Spectrum



Radiated Emission Band Edge

Channel No.:64

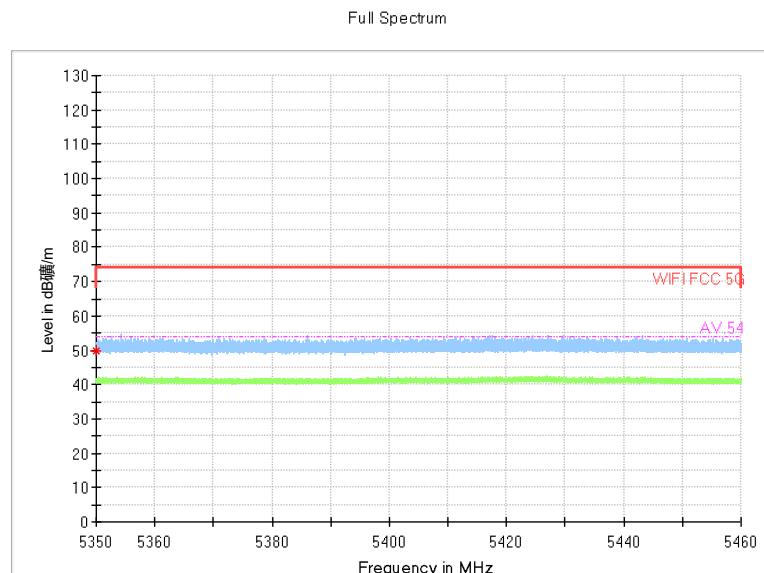
Test Mode: 802.11 ax



BUREAU
VERITAS

Test Report No.: PSU-NQN2502260117RF03

Polarization: V

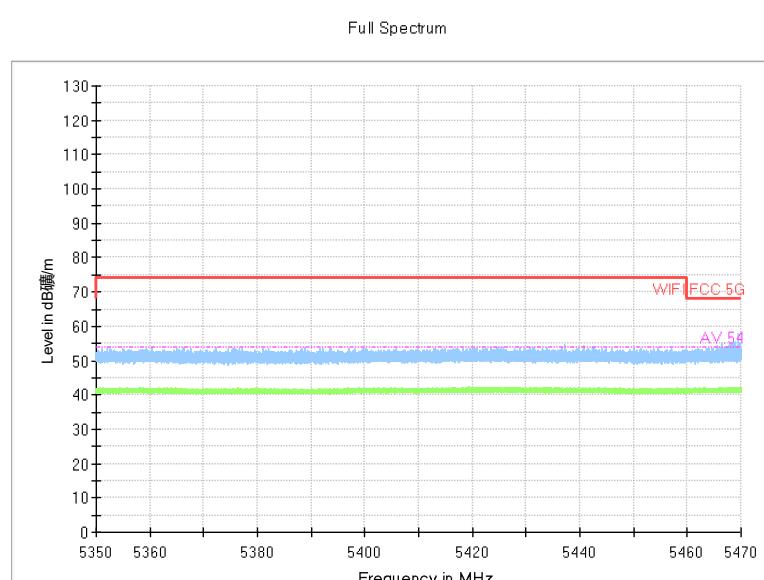


Radiated Emission Band Edge

Channel No.:64

Test Mode: 802.11 ax

Polarization: H



Radiated Emission Band Edge

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Tel: +86 (0557) 368 1008



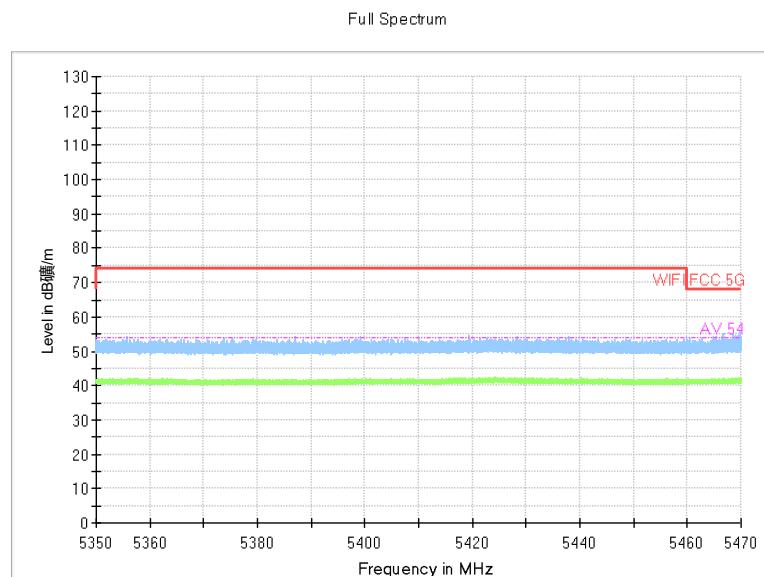
BUREAU
VERITAS

Test Report No.: PSU-NQN2502260117RF03

Channel No.:100

Test Mode: 802.11 ax

Polarization: V



Radiated Emission Band Edge

Channel No.:100

Test Mode: 802.11 ax

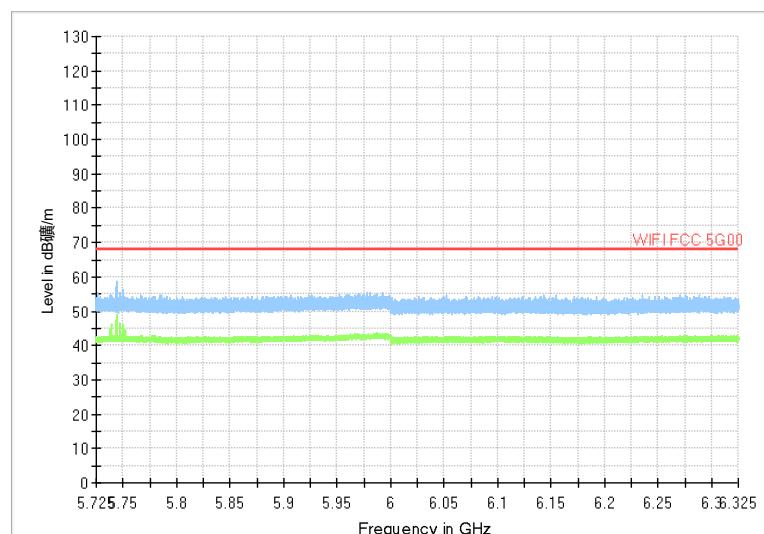
Polarization: H



BUREAU
VERITAS

Test Report No.: PSU-NQN2502260117RF03

Full Spectrum



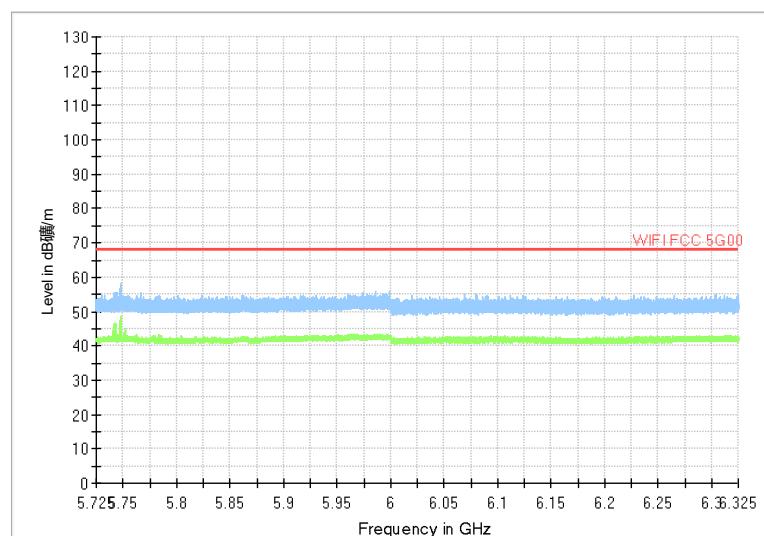
Radiated Emission Band Edge

Channel No.:140

Test Mode: 802.11 ax

Polarization: V

Full Spectrum



Radiated Emission Band Edge

Channel No.:140

Test Mode: 802.11 ax

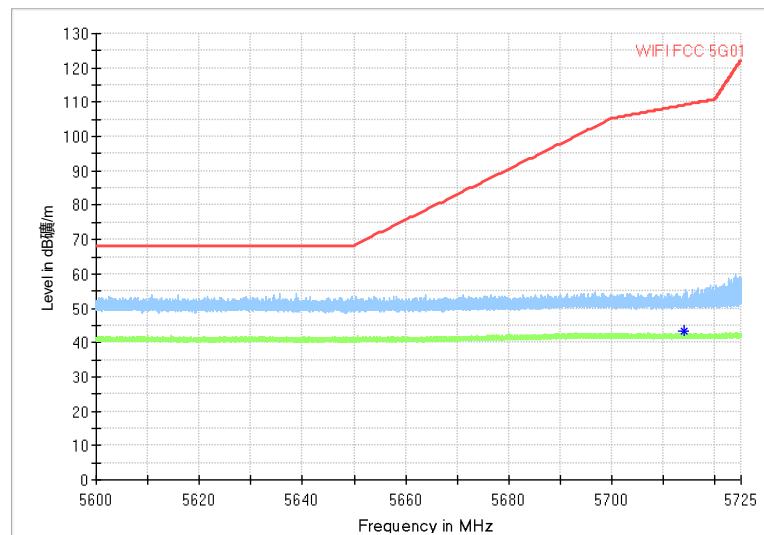
Polarization: H



BUREAU
VERITAS

Test Report No.: PSU-NQN2502260117RF03

Full Spectrum



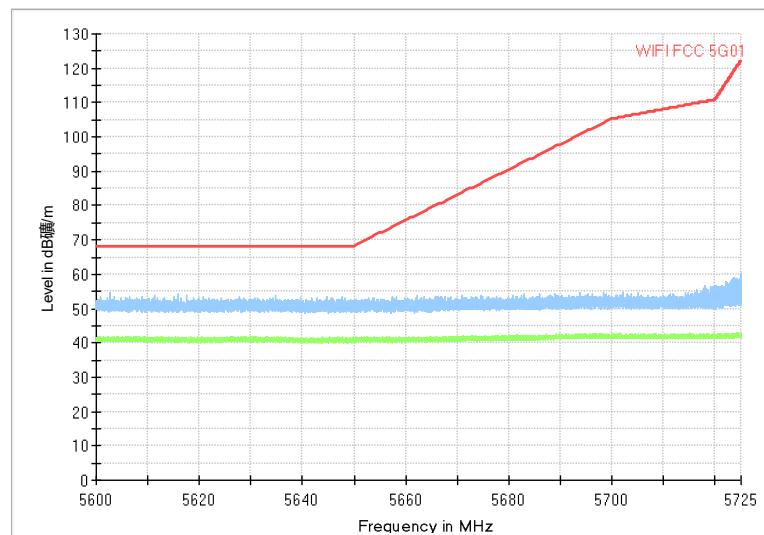
Radiated Emission Band Edge

Channel No.:149

Test Mode: 802.11ax

Polarization: V

Full Spectrum



Radiated Emission Band Edge

Channel No.:149

Test Mode: 802.11ax

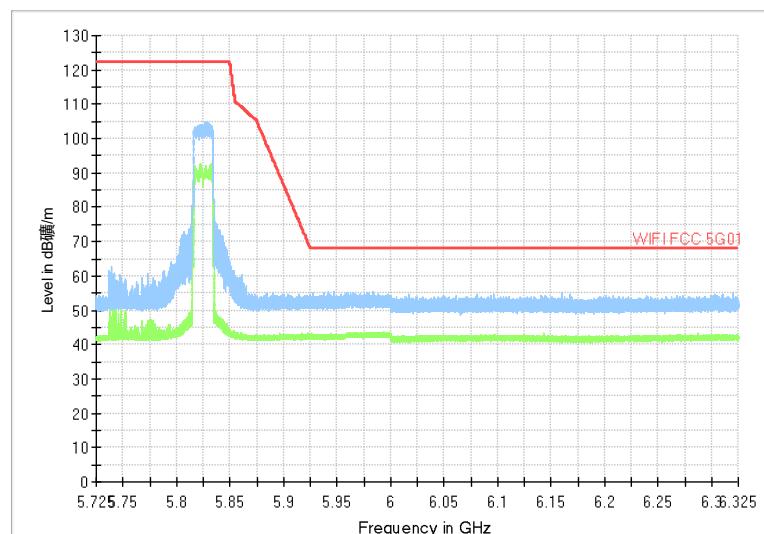


BUREAU
VERITAS

Test Report No.: PSU-NQN2502260117RF03

Polarization: H

Full Spectrum



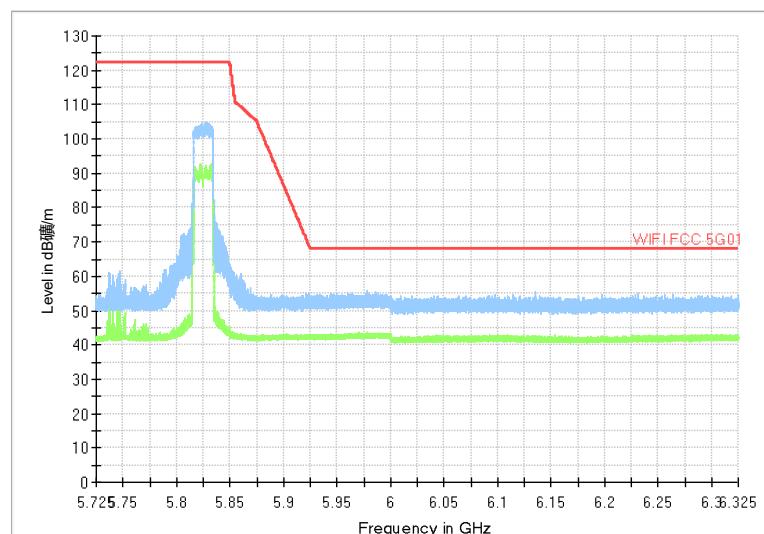
Radiated Emission Band Edge

Channel No.:165

Test Mode: 802.11 ax

Polarization: V

Full Spectrum



Radiated Emission Band Edge

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Test Report No.: PSU-NQN2502260117RF03

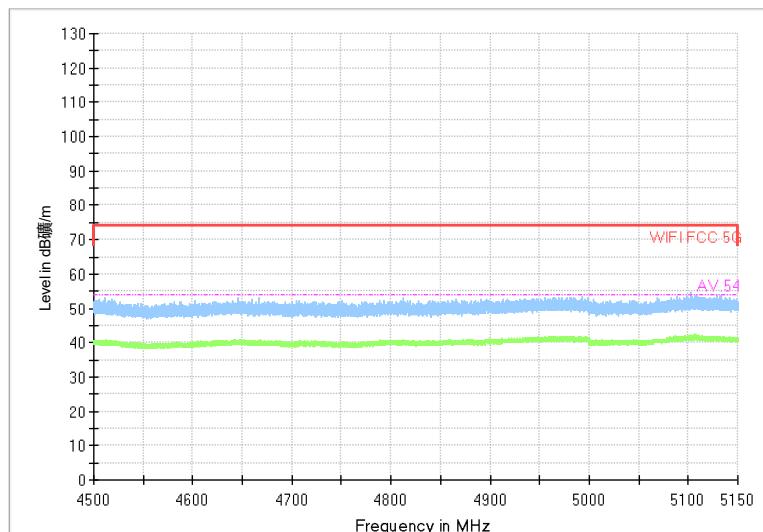
Channel No.:165

Test Mode: 802.11ax

Polarization: H

20M
Partial RU (Tone26)

Full Spectrum



Radiated Emission Band Edge

Channel No.:36

Test Mode: 802.11ax

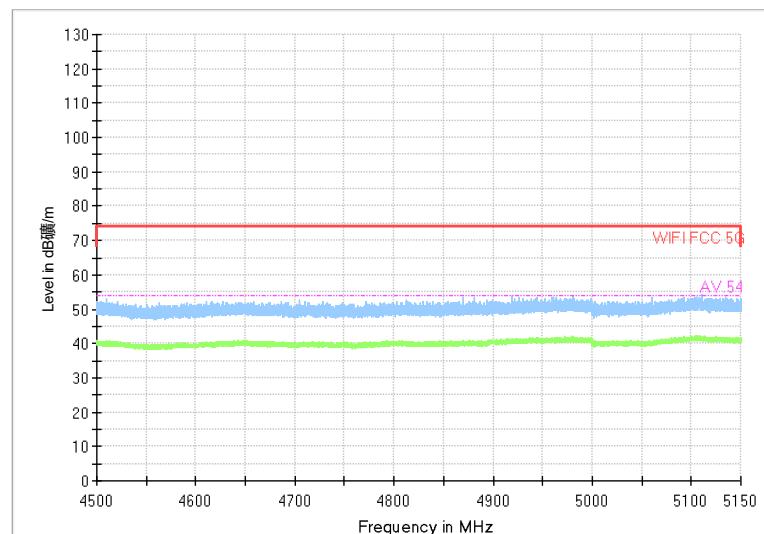
Polarization: V



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VERITAS

Test Report No.: PSU-NQN2502260117RF03

Full Spectrum



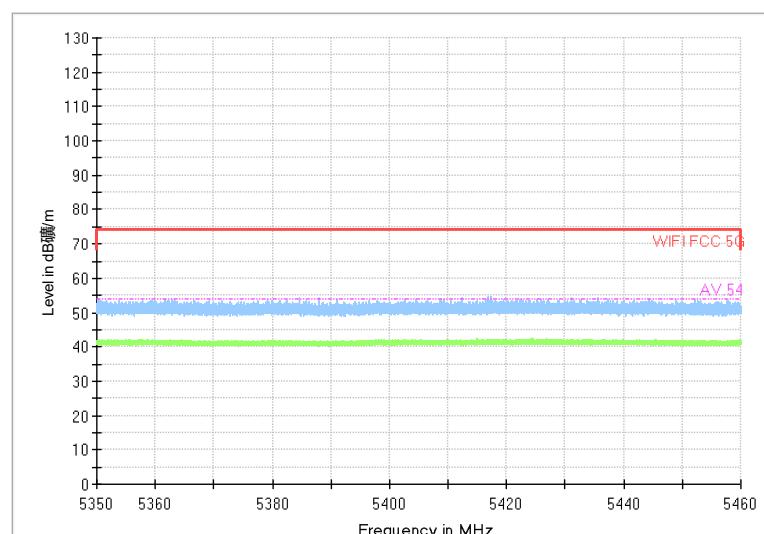
Radiated Emission Band Edge

Channel No.:36

Test Mode: 802.11ax

Polarization: H

Full Spectrum



Radiated Emission Band Edge

Channel No.:64

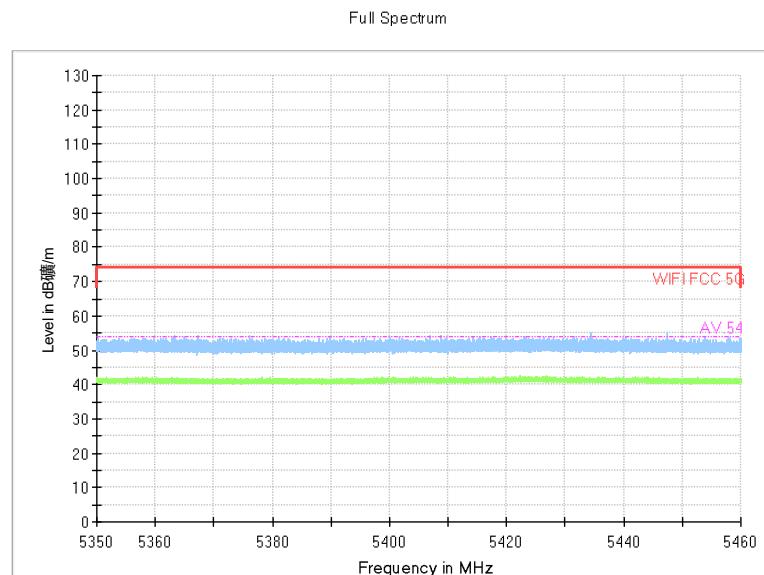
Test Mode: 802.11ax



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VERITAS

Test Report No.: PSU-NQN2502260117RF03

Polarization: V

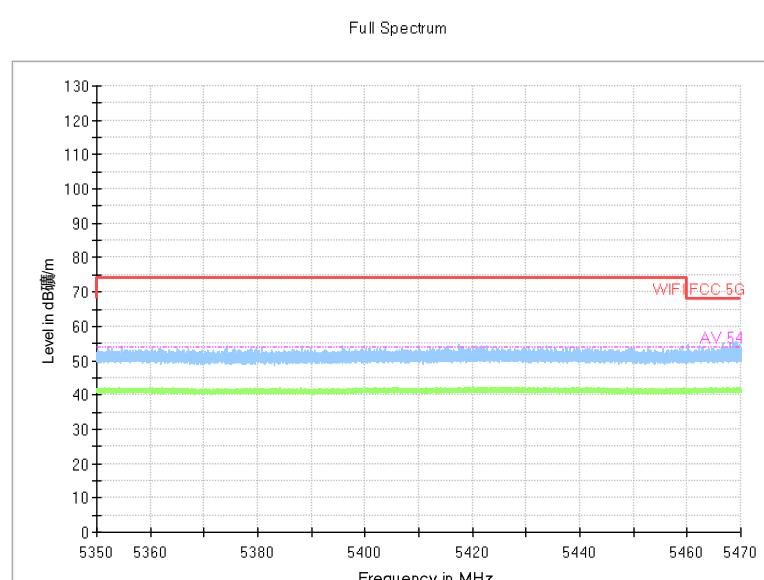


Radiated Emission Band Edge

Channel No.:64

Test Mode: 802.11ax

Polarization: H



Radiated Emission Band Edge

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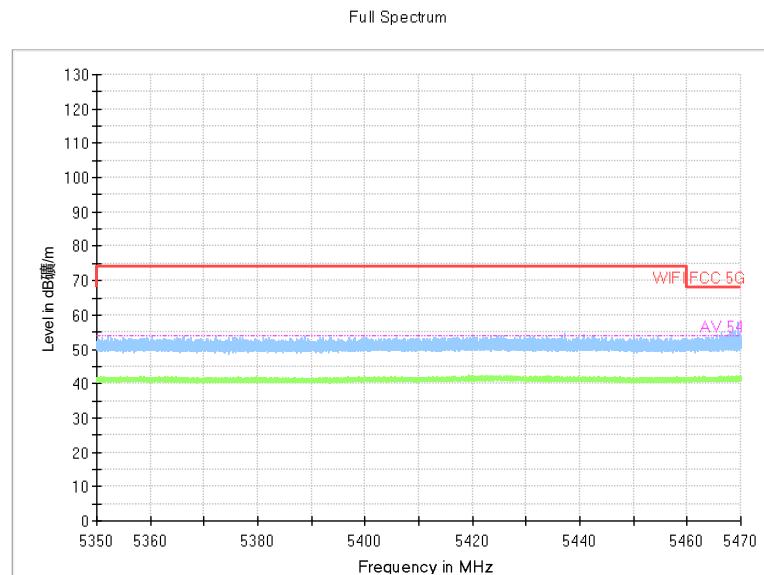
BUREAU
VERITAS

Test Report No.: PSU-NQN2502260117RF03

Channel No.:100

Test Mode: 802.11ax

Polarization: V

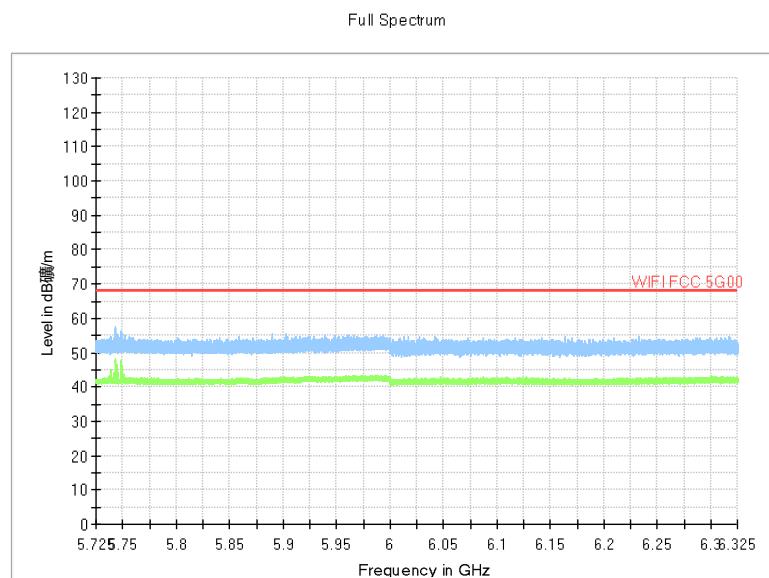


Radiated Emission Band Edge

Channel No.:100

Test Mode: 802.11ax

Polarization: H





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VERITAS

Test Report No.: PSU-NQN2502260117RF03

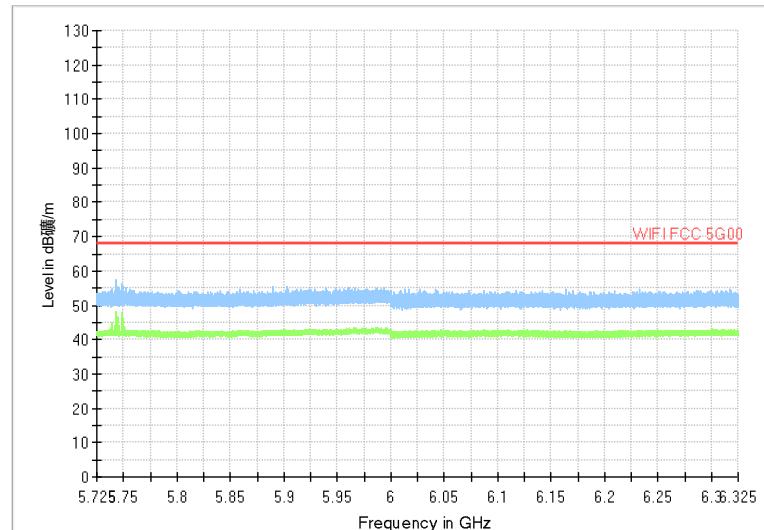
Radiated Emission Band Edge

Channel No.:140

Test Mode: 802.11ax

Polarization: V

Full Spectrum



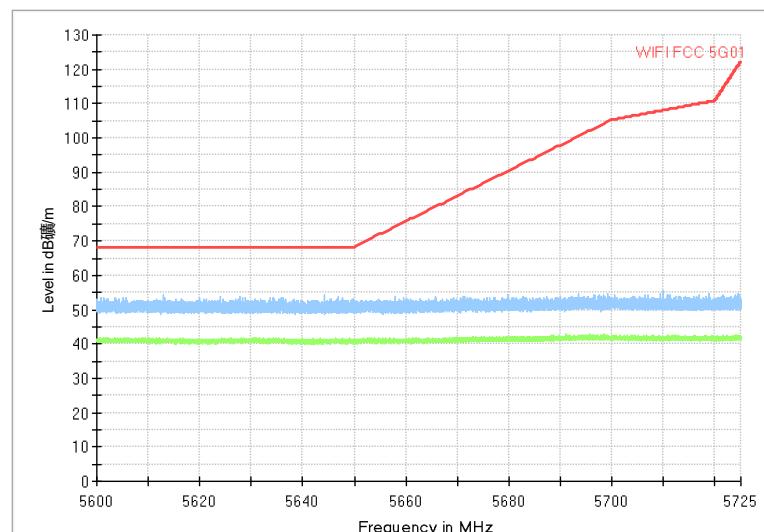
Radiated Emission Band Edge

Channel No.:140

Test Mode: 802.11ax

Polarization: H

Full Spectrum





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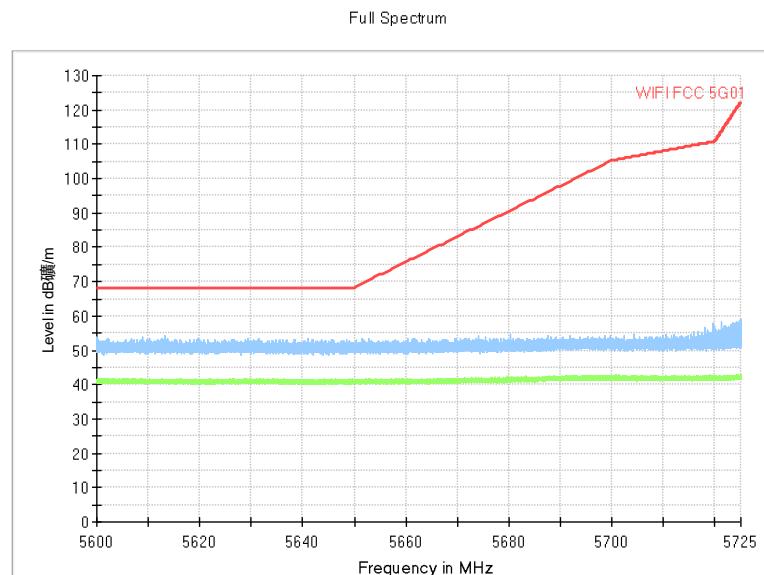
Test Report No.: PSU-NQN2502260117RF03

Radiated Emission Band Edge

Channel No.:149

Test Mode: 802.11ax

Polarization: V



Radiated Emission Band Edge

Channel No.:149

Test Mode: 802.11ax

Polarization: H