

FCC TEST REPORT

(Part 15, Subpart E)

Applicant:	Beijing InHand Networks Technology Co., Ltd.
Address:	Room 501, floor 5, building 3, yard 18, ziyue road, chaoyang district, Beijing China

Manufacturer or Supplier:	Beijing InHand Networks Technology Co., Ltd.
Address:	Room 501, floor 5, building 3, yard 18, ziyue road, chaoyang district, Beijing China
Product:	5G CPE
Brand Name:	inhand
Model Name:	CPE02
FCC ID:	2AANY-CPE02
Date of tests:	Feb. 11, 2025 ~ Feb. 28, 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: Feb. 28, 2025	 Date: Feb. 28, 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-NQN2502170213RF10	Original release	Feb. 28, 2025



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, Band Edge Measurement and AC Power Conducted Emission, other data please refer to the appendix A.

***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, China

Accredited Test Lab Cert 6613.01

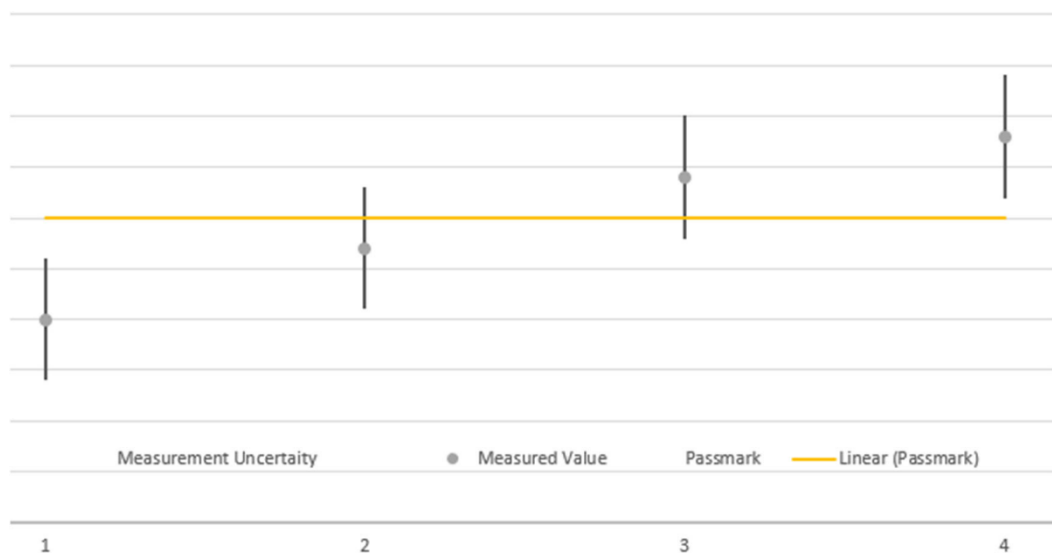
The FCC Site Registration No. is 434559; The Designation No. is CN1325.

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.



2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT*	CPE02
BRAND NAME*	inhand
MODEL NAME*	CPE02
NOMINAL VOLTAGE*	12.0Vdc(adapter or host equipment)
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, 5745 ~ 5825MHz
NUMBER OF CHANNEL	5180 ~ 5240MHz: 4 for 802.11a, 802.11n/ac/ax (20MHz)/ 802.11ax(20M RU 242) 2 for 802.11n/ac/ax (40MHz)/ 802.11ax(40M RU 484) 1 for 802. 802.11ac/ax (80MHz)/ 802.11ax(80MRU996) 5745 ~ 5825MHz: 5 for 802.11a, 802.11n/ac/ax (20MHz)/ 802.11ax(20M RU 242) 2 for 802.11n/ac/ax (40MHz)/ 802.11ax(40M RU 484) 1 for 802.11ac/ax (80MHz)/ 802.11ax(80MRU 996)
MAX. OUTPUT POWER	38.90 mW for 5180 ~ 5240MHz 49.32mW for 5745 ~ 5825MHz
ANTENNA TYPE*	Built-in cellular Antenna
ANTENNA GAIN*	ANT 1/2: 3.3dBi for 5180 ~ 5240MHz 3.3dBi for 5745 ~ 5825MHz
HW VERSION*	V1.6
SW VERSION*	V2.0
I/O PORTS*	Refer to user's manual

**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 26/52/106/242/484/996)	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.

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 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 484):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
42	5210 MHz		

FOR 5745 ~ 5825MHz

5 channels are provided for 802.11a, 802.11n, 802.11ac/ax (20MHz)/ 802.11ax (20MHz RU 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 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 996):

CHANNEL	FREQUENCY
155	5775 MHz



2.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE $\geq$ 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 $\geq$ 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



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 RU 242)		36 to 48	36, 40, 48	OFDM, OFDMA	MCS0
A	802.11n/ac/ax (40MHz)/ 802.11ax (40MHz RU 484)		38 to 46	38, 46	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 996)		42	42	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 RU 242)		144 to 165	144,149, 157,165	OFDM, OFDMA	MCS0
A	802.11n/ac/ax (40MHz)/ 802.11ax (40MHz RU 484)		142 to 159	142,151, 159	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 996)		138 to 155	138,155	OFDM, OFDMA	MCS0

**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

BANDEGE 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.

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 RU 242)		36 to 48	36, 40, 48	OFDM, OFDMA	MCS0
A	802.11n/ac/ax (40MHz)/ 802.11ax (40MHz RU 484)		38 to 46	38, 46	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 996)		42	42	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 RU 242)		144 to 165	144, 149, 157,165	OFDM, OFDMA	MCS0
A	802.11n/ac/ax (40MHz)/ 802.11ax (40MHz RU 484)		142 to 159	142, 151, 159	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 996)		138,155	138, 155	OFDM, OFDMA	MCS0

**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 RU 242)		36 to 48	36, 40, 48	OFDM, OFDMA	MCS0
A	802.11n/ac/ax (40MHz)/ 802.11ax (40MHz RU 484)		38 to 46	38, 46	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 996)		42	42	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 RU 242)		144 to 165	144, 149, 157,165	OFDM, OFDMA	MCS0
A	802.11n/ac/ax (40MHz)/ 802.11ax (40MHz RU 484)		142 to 159	142, 151, 159	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 996)		138,155	138, 155	OFDM, OFDMA	MCS0

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE<1G	23deg. C, 70%RH	DC 12V By Adapter	Hanwen Xu
RE≥1G	23deg. C, 70%RH	DC 12V By Adapter	Hanwen Xu
PLC	25deg. C, 52%RH	DC12V By Adapter	Hanwen Xu
APCM	25deg. C, 60%RH	DC 14V By DC Supply	Hanwen Xu

2.3 DUTY CYCLE OF TEST SIGNAL

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

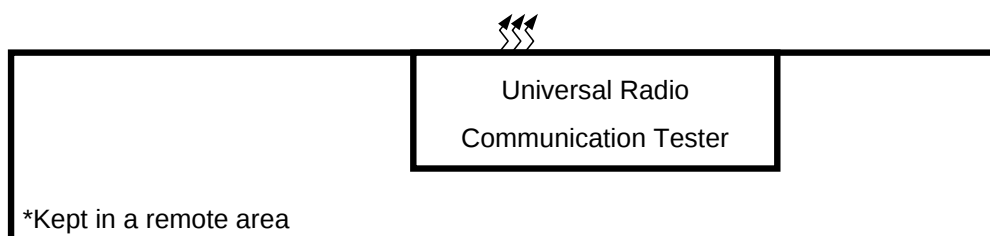
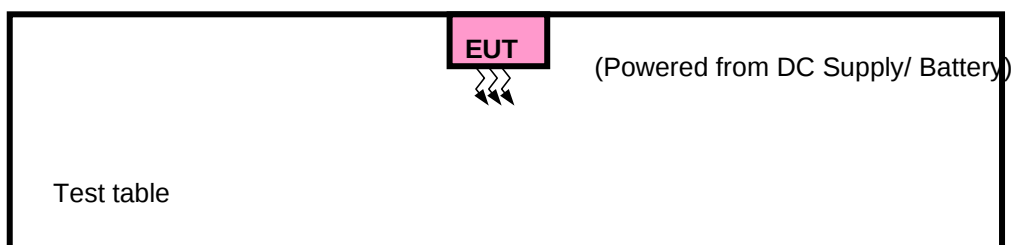
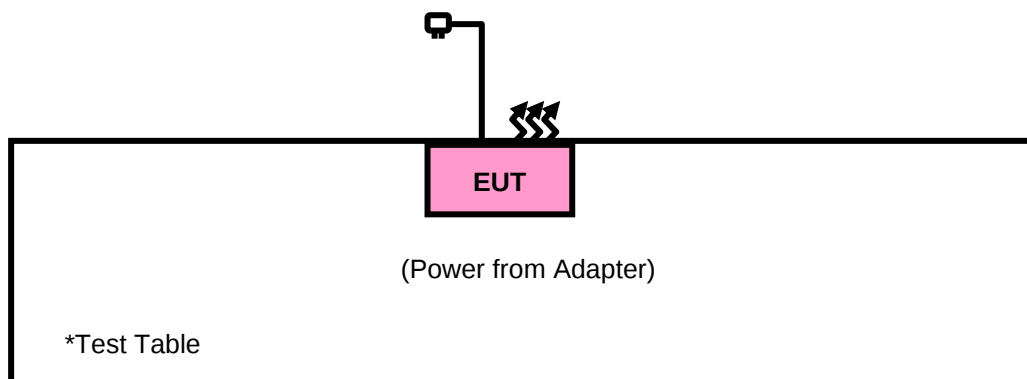
2.4 DESCRIPTION OF SUPPORT UNITS

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	Laptop	Lenovo	Thinkpad E14	SL10W47313	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

2.4.1 CONFIGURATION OF SYSTEM UNDER TEST



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.

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 (dBuV/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	
	789033 D02 General UNII Test Procedures New Rules v02r01	FIELD STRENGTH AT 3m (dBμV/m)	
		PK : 74	AV : 54
OUT OF THE RESTRICTED BANDS	APPLICABLE TO	EIRP LIMIT (dBm/MHz)	EQUIVALENT FIELD STRENGTH AT 3m (dBμV/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)	



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

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

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	SCHWARZBECK	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
WIDEBAND RADIO 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	HRSW0024	N/A	N/A
TMC-AMI18843A(CABLE)	R&S	HF290-NMNM-7.00M	N/A	N/A	N/A

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TMC-AMI18843A(CABLE)	R&S	HF290-NMNM-4.00M	N/A	N/A	N/A
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, GRGT/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:

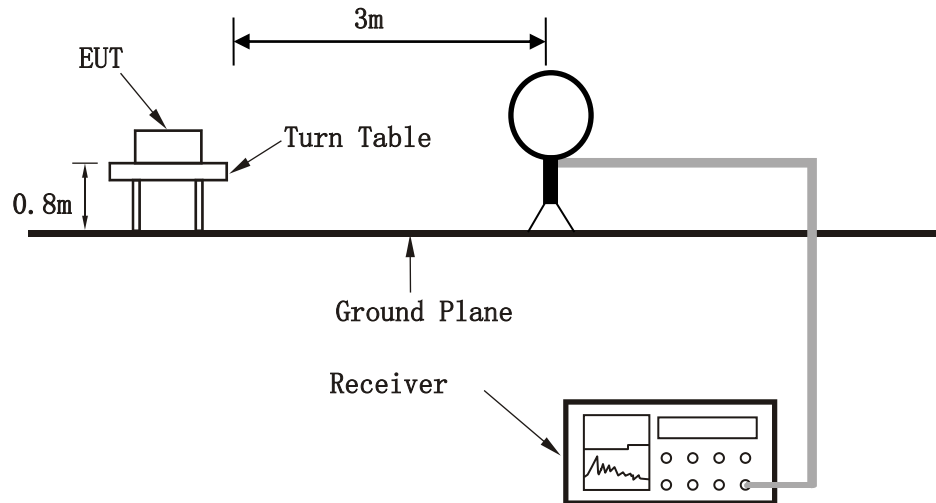
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency 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

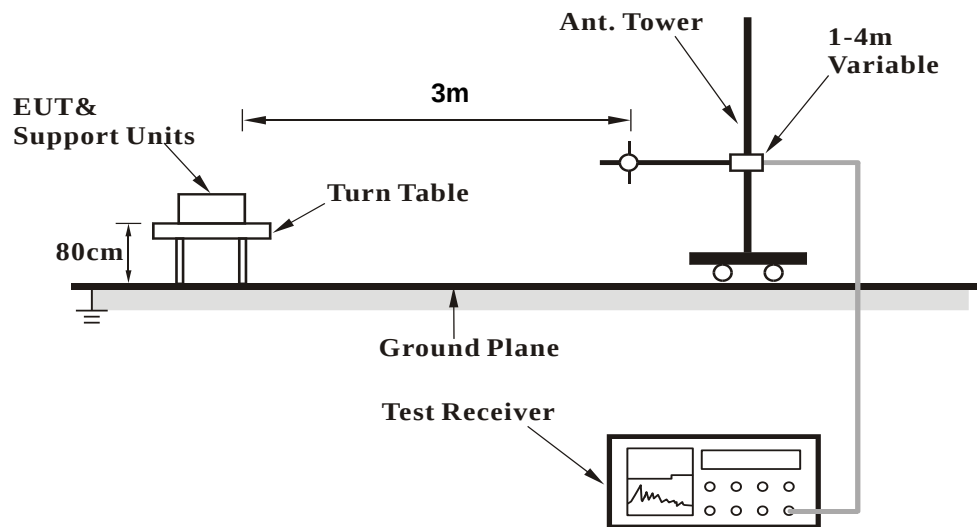
No deviation.

3.1.6 TEST SETUP

<Frequency Range 9KHz~30MHz >

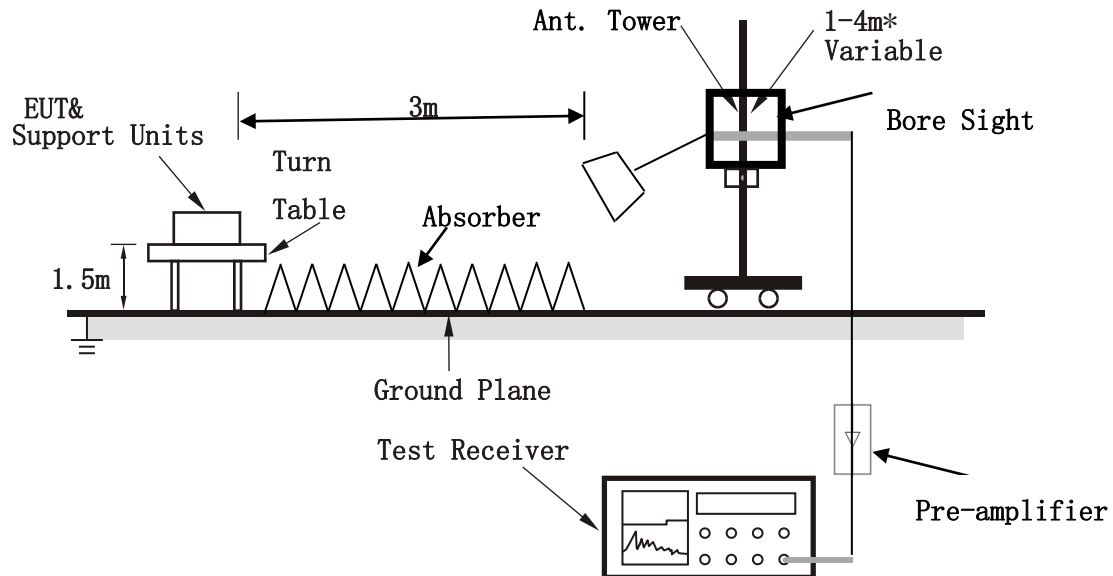


< Frequency Range 30MHz~1GHz >





<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.



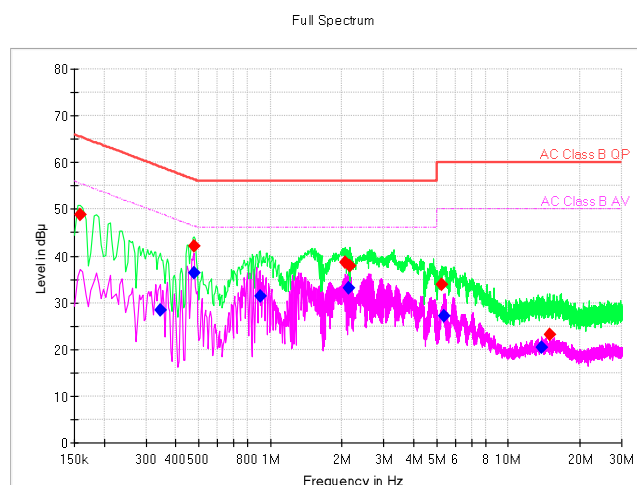
3.1.8 TEST RESULTS

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

A “reference path loss” Corr.(dB) is established and the $L_{\text{cable}} + \text{ATT} + \text{VDF}$ is the attenuation of “reference path loss”, and including the cable loss, the attenuation of the attenuator, the voltage division factor of AMN.

The measurement results are obtained as described below: $P_{\text{result}} = P_{\text{mea}} + \text{Corr. (dB)}$

Sample calculation: $(48.89\text{dB}\mu\text{V}) = (19.29\text{dB}\mu\text{V}) + (29.6\text{dB})$, the corresponding frequency is 0.158779MHz.



L+N Line

MEASUREMENT RESULT:

Frequency (MHz)	QuasiP eak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	Pmea QuasiP eak (dBμV)	Pmea Average (dBμV)
0.158779	48.89	---	65.53	16.63	L1	29.6	19.29	---
0.343147	---	28.37	49.13	20.76	L1	29.6	---	-1.23
0.479228	---	36.28	46.35	10.08	L1	29.6	---	6.68
0.479228	42.22	---	56.35	14.13	L1	29.6	12.62	---
0.905029	---	31.33	46	14.67	L1	29.6	---	1.73
2.072691	38.61	---	56	17.39	L1	29.6	9.01	---
2.125368	---	33.23	46	12.77	L1	29.6	---	3.63
2.151706	37.85	---	56	18.15	L1	29.6	8.25	---
5.272787	33.88	---	60	26.12	L1	29.7	4.18	---
5.395699	---	27.18	50	22.82	L1	29.7	---	-2.52
13.850272	---	20.55	50	29.45	L1	29.9	---	-9.35
14.886243	23.28	---	60	36.72	L1	30	-6.72	---

3.2 CONDUCTED EMISSION MEASUREMENT

3.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB μ V)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

- NOTE:** 1. The lower limit shall apply at the transition frequencies.
 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

3.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR3	102749	Mar.28,24	Mar.27,26
ELEKTRA test software	Rohde&Schwarz	ELEKTRA	NA	N/A	N/A
LISN network	Rohde&Schwarz	ENV216	102640	Mar.28,24	Mar.27,26
CABLE	Rohde&Schwarz	W61.01	N/A	Apr.27,24	Apr.26,25
CABLE	Rohde&Schwarz	W601	N/A	Apr.27,24	Apr.26,25

NOTE:

- The test was performed in CE shielded room.
- The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

3.2.3 TEST PROCEDURES

- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

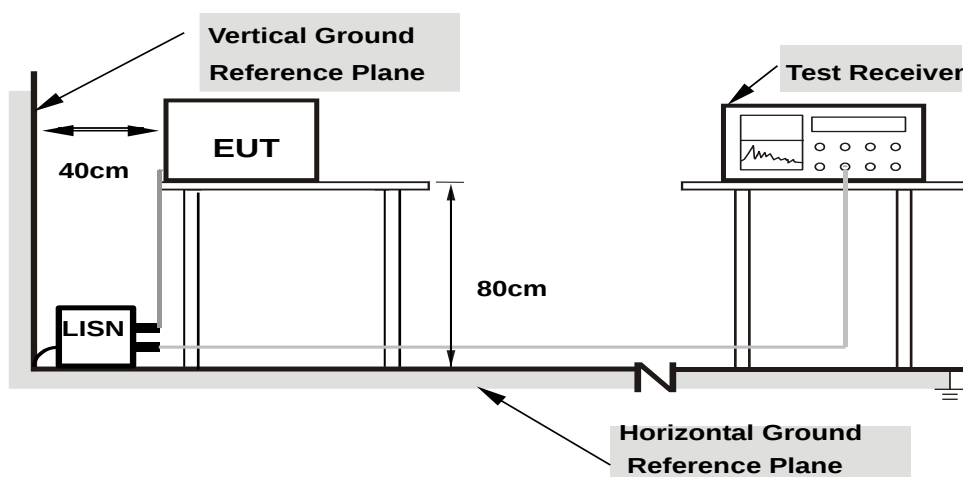
NOTE: All modes of operation were investigated and the worst-case emissions are reported.



3.2.4 DEVIATION FROM TEST STANDARD

No deviation.

3.2.5 TEST SETUP



**Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80
from other units and other metal planes**

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

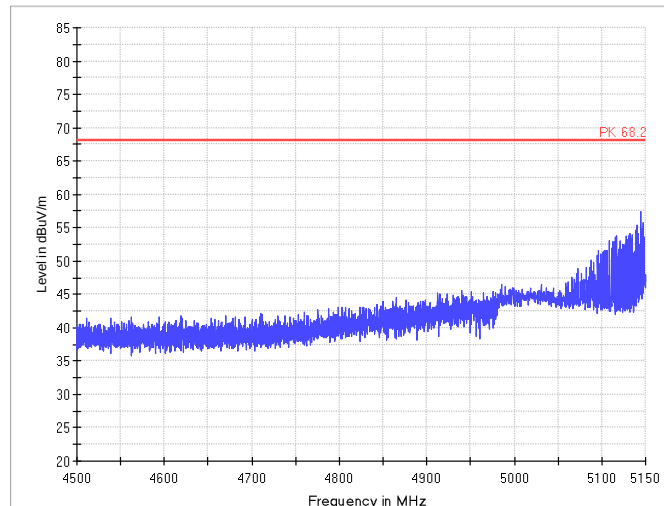
3.2.6 EUT OPERATING CONDITIONS

Same as 3.1.7.



3.2.7 TEST RESULTS

Radiated Emission Band Edge for WIFI 20M

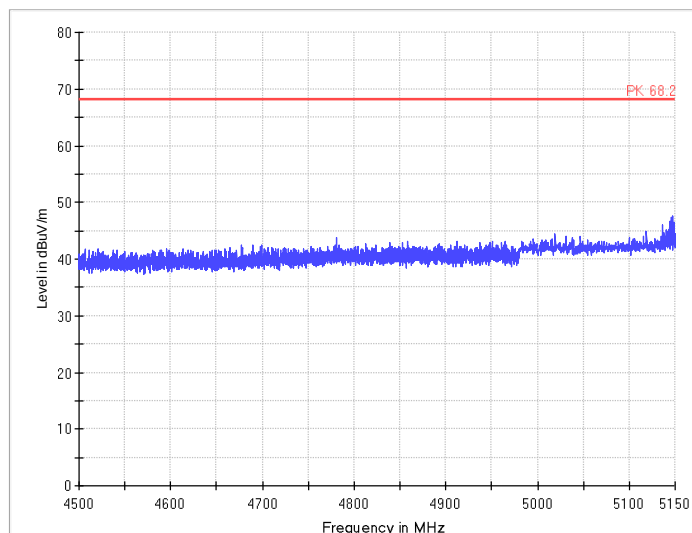


Radiated Emission Band Edge

Channel No.:36

Test Mode: 802.11a

Polarization: V

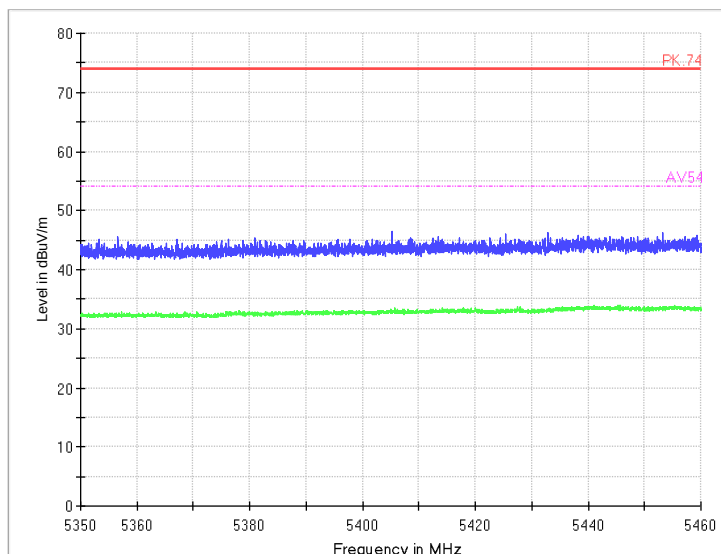


Radiated Emission Band Edge

Channel No.:36

Test Mode: 802.11a

Polarization: H

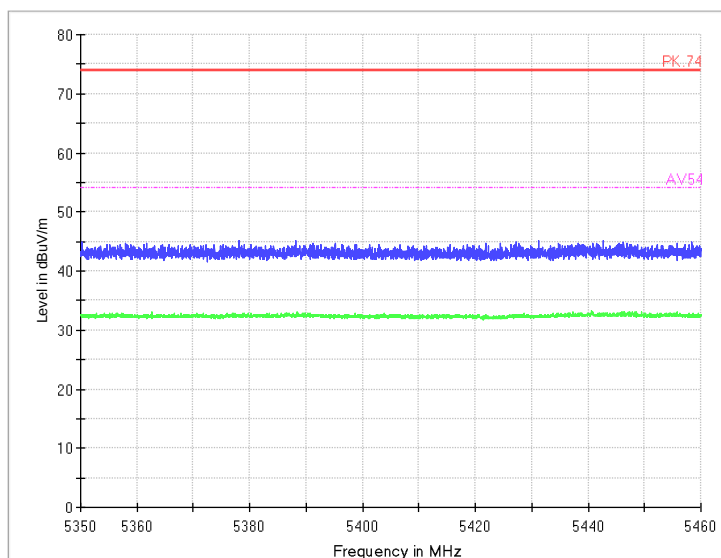


Radiated Emission Band Edge

Channel No.:48

Test Mode: 802.11a

Polarization: V

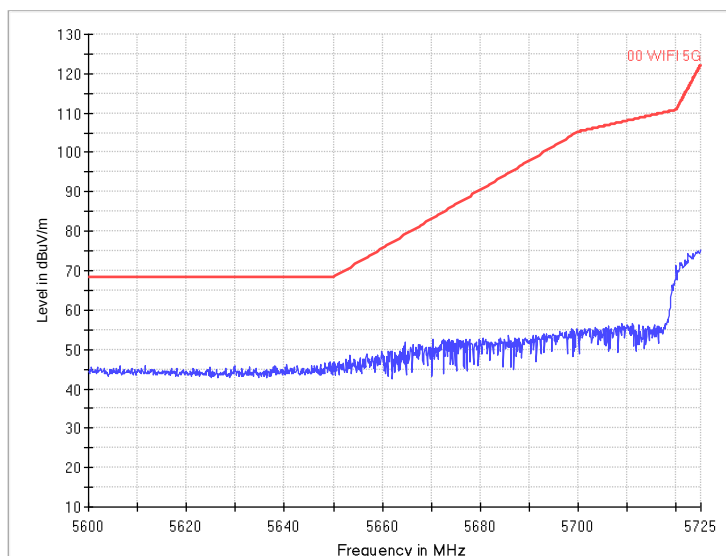


Radiated Emission Band Edge

Channel No.:48

Test Mode: 802.11a

Polarization: H

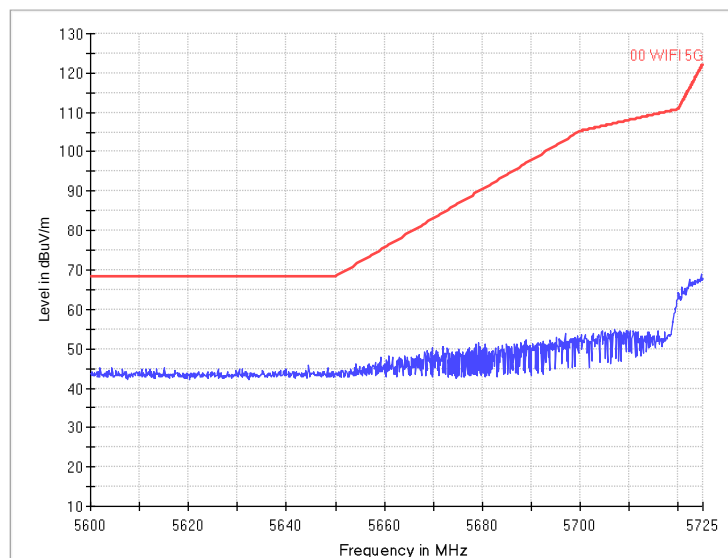


Radiated Emission Band Edge

Channel No.:149

Test Mode: 802.11a

Polarization: V

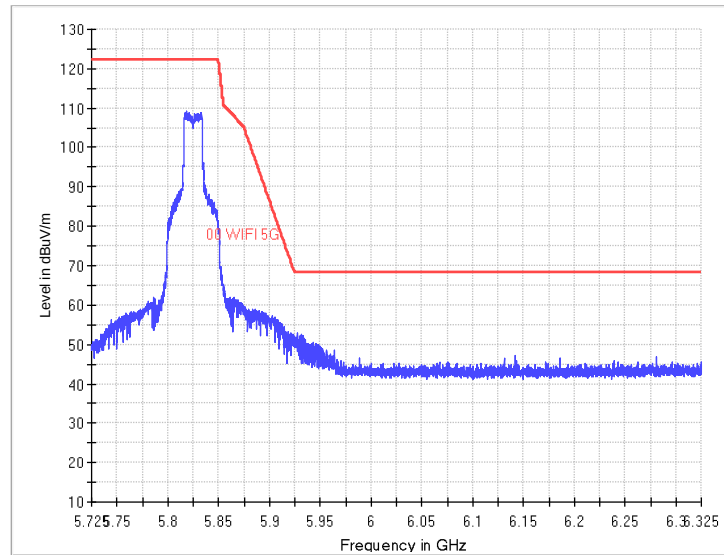


Radiated Emission Band Edge

Channel No.:149

Test Mode: 802.11a

Polarization: H

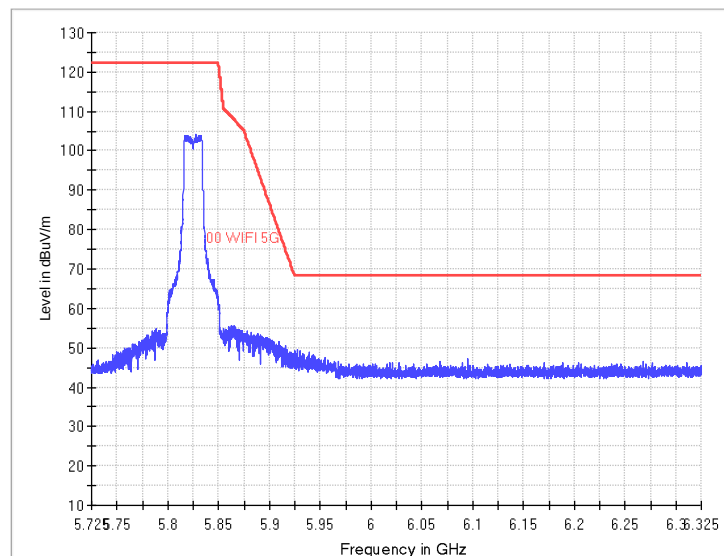


Radiated Emission Band Edge

Channel No.:165

Test Mode: 802.11a

Polarization: V

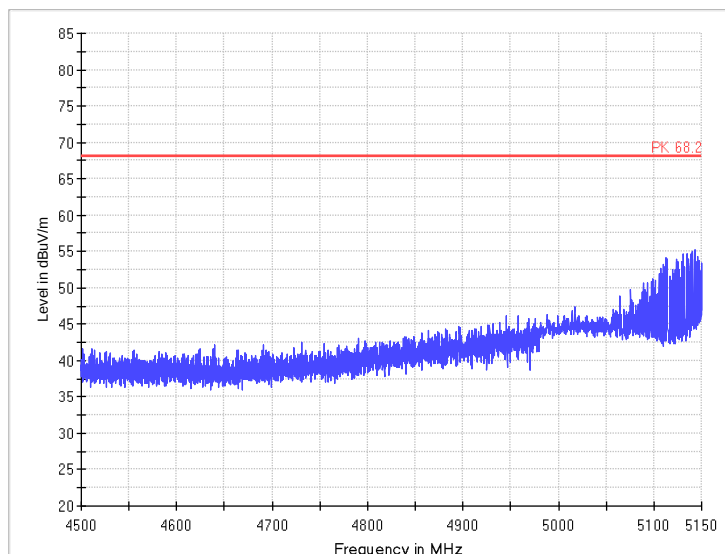


Radiated Emission Band Edge

Channel No.:165

Test Mode: 802.11a

Polarization: H

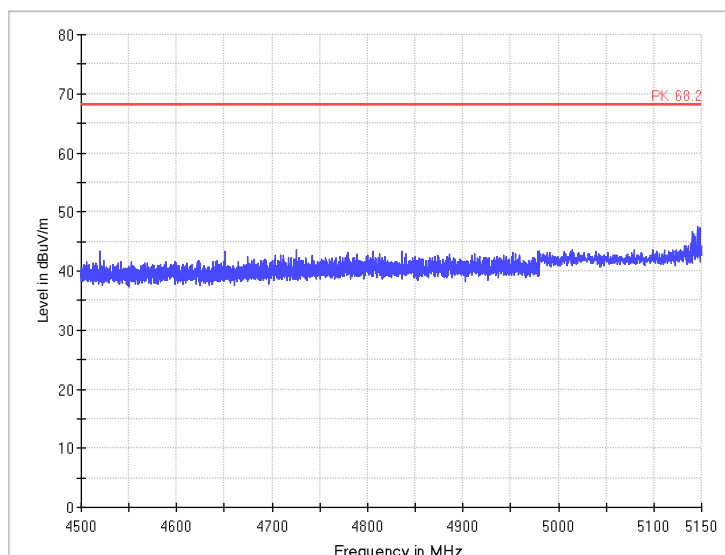


Radiated Emission Band Edge

Channel No.:36

Test Mode: 802.11n

Polarization: V

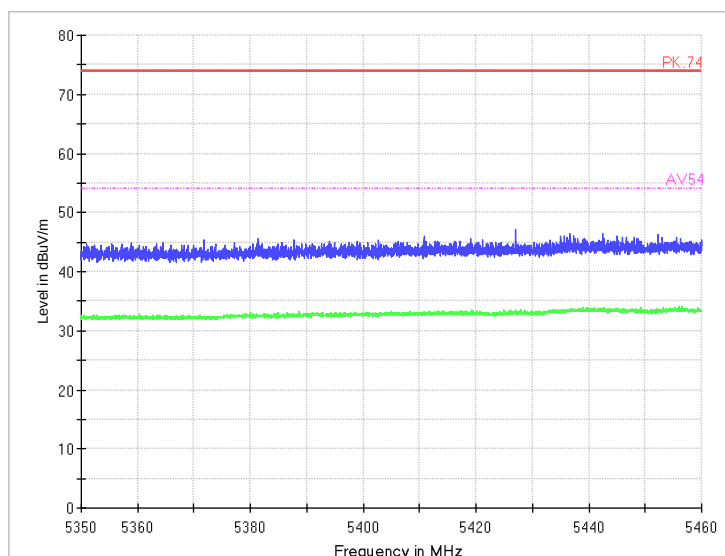


Radiated Emission Band Edge

Channel No.:36

Test Mode: 802.11n

Polarization: H

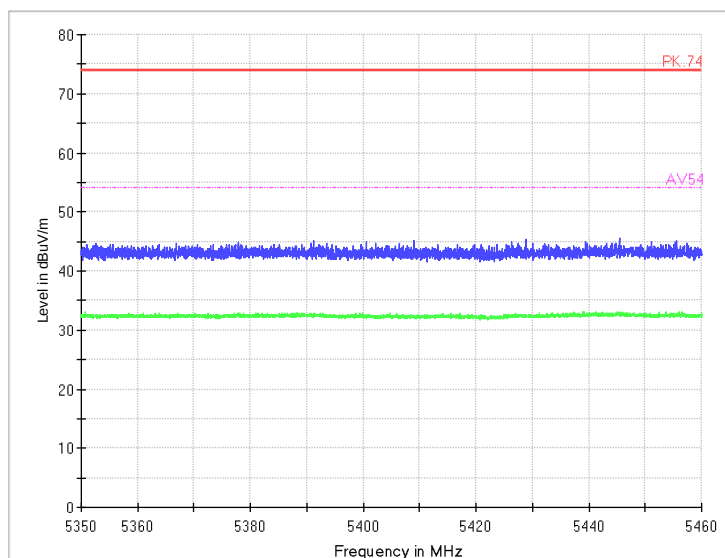


Radiated Emission Band Edge

Channel No.:48

Test Mode: 802.11n

Polarization: V



Radiated Emission Band Edge

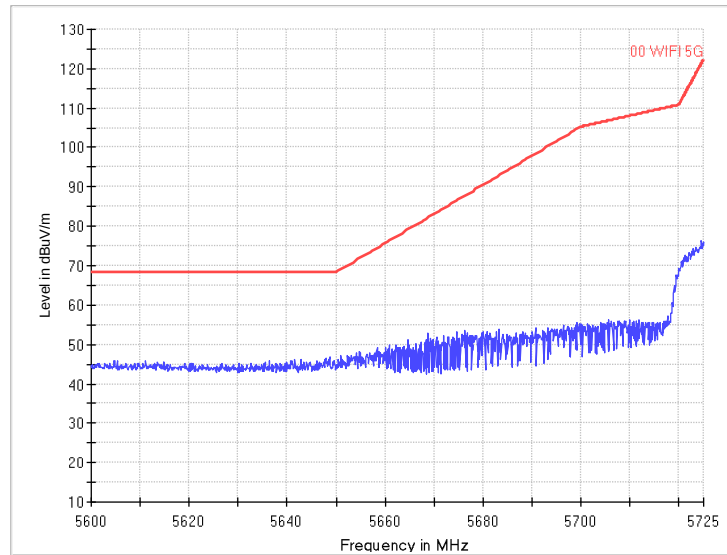
Channel No.:48

Test Mode: 802.11n

Polarization: H



Test Report No.: PSU-NQN2502170213RF010

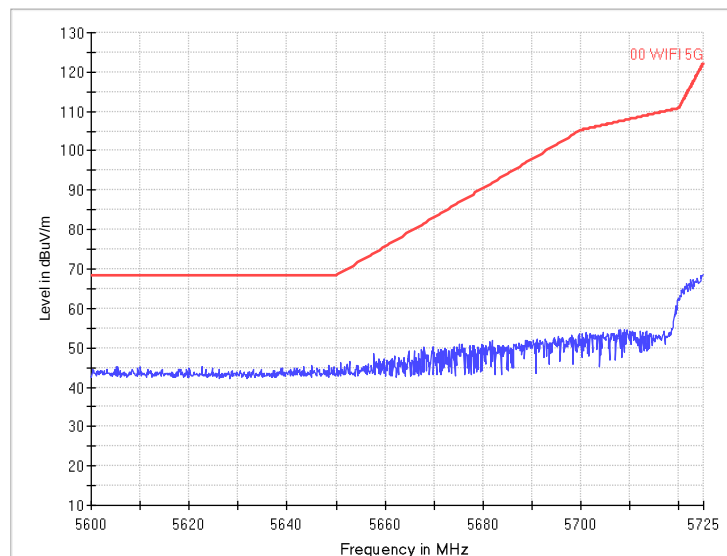


Radiated Emission Band Edge

Channel No.:149

Test Mode: 802.11n

Polarization: V

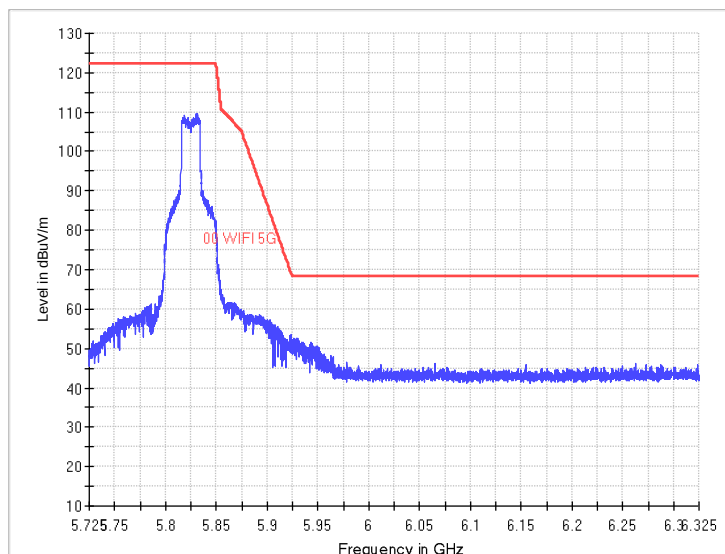


Radiated Emission Band Edge

Channel No.:149

Test Mode: 802.11n

Polarization: H

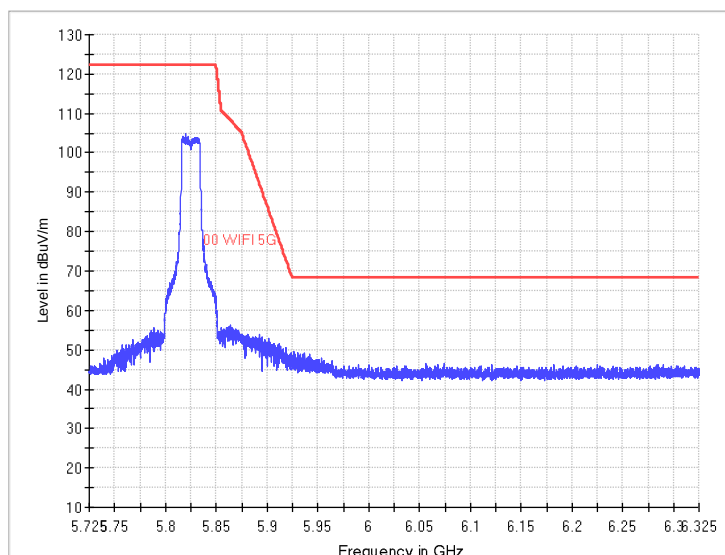


Radiated Emission Band Edge

Channel No.:165

Test Mode: 802.11n

Polarization: V

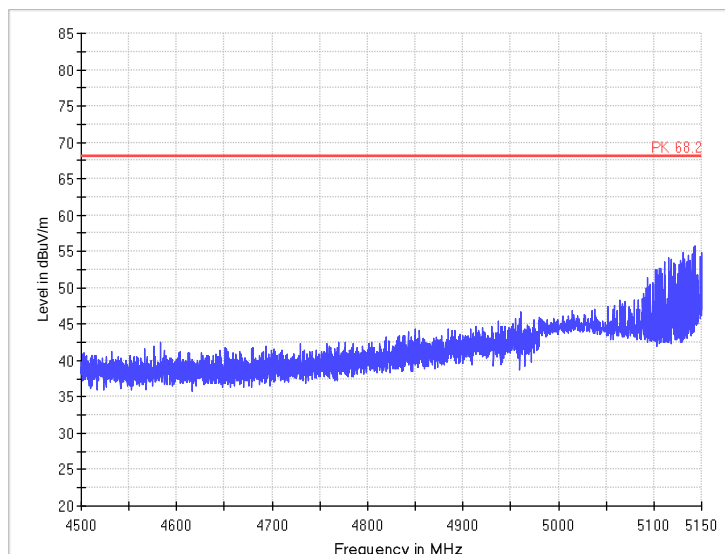


Radiated Emission Band Edge

Channel No.:165

Test Mode: 802.11n

Polarization: H

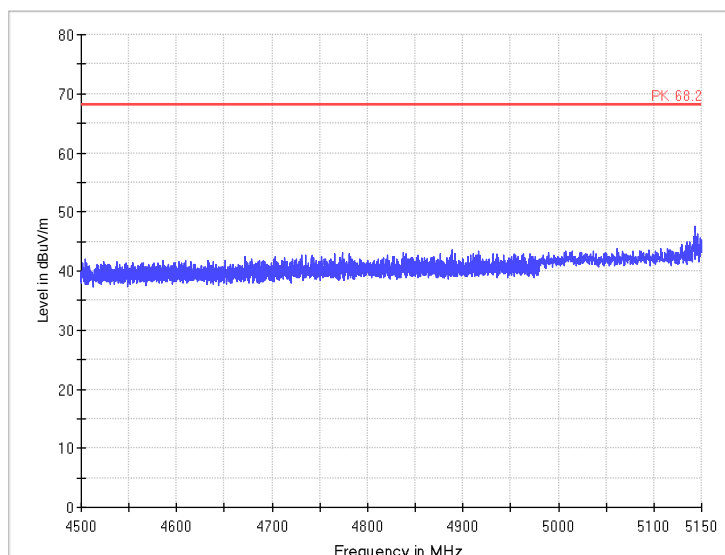


Radiated Emission Band Edge

Channel No.:36

Test Mode: 802.11ac

Polarization: V



Radiated Emission Band Edge

Channel No.:36

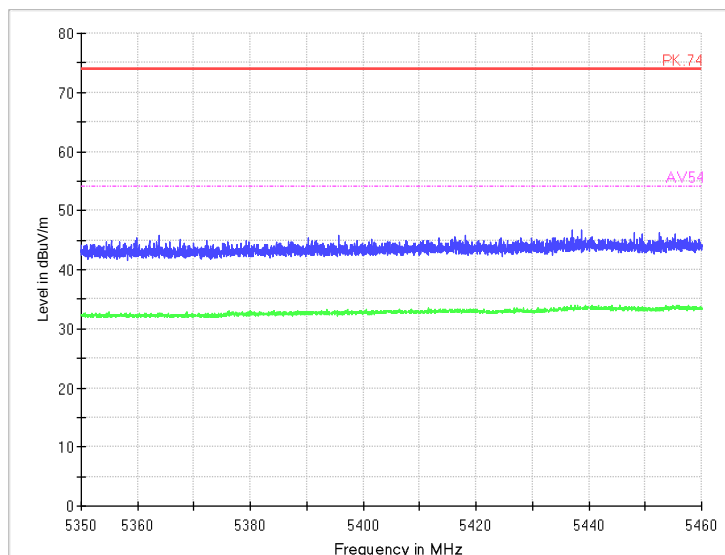
Test Mode: 802.11ac

Polarization: H



BUREAU
VERITAS

Test Report No.: PSU-NQN2502170213RF010

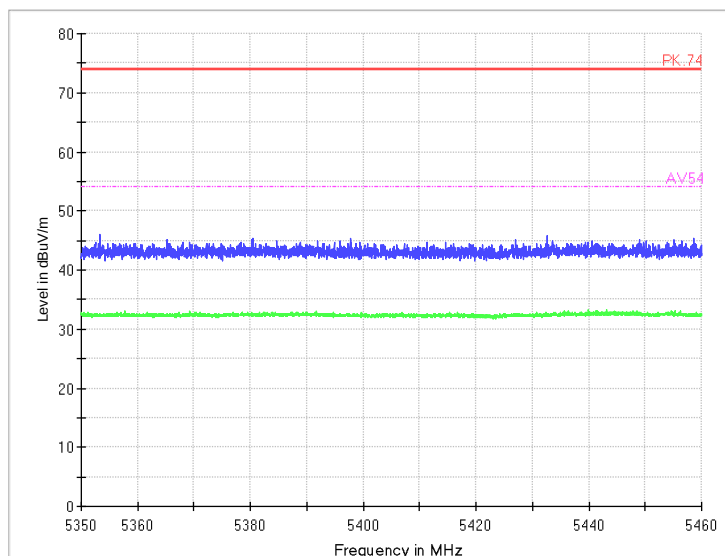


Radiated Emission Band Edge

Channel No.:48

Test Mode: 802.11ac

Polarization: V



Radiated Emission Band Edge

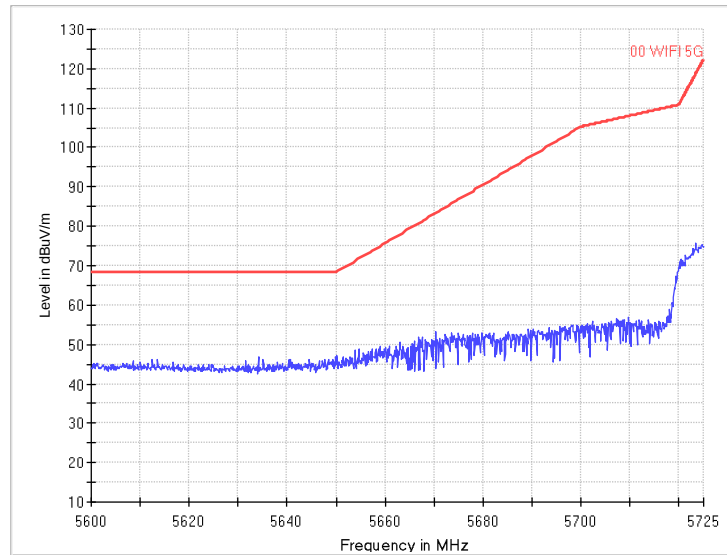
Channel No.:48

Test Mode: 802.11ac

Polarization: H



Test Report No.: PSU-NQN2502170213RF010

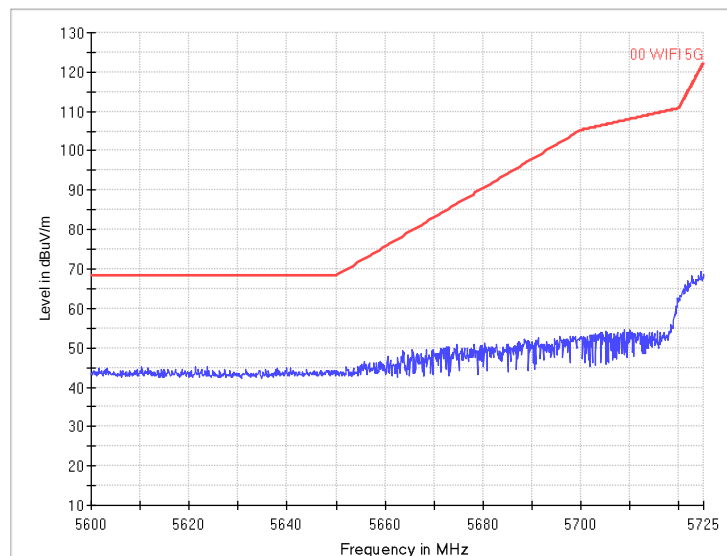


Radiated Emission Band Edge

Channel No.:149

Test Mode: 802.11ac

Polarization: V

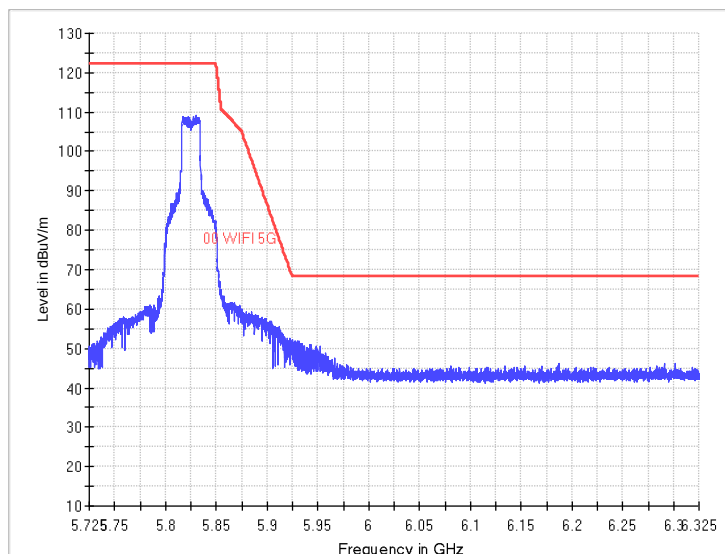


Radiated Emission Band Edge

Channel No.:149

Test Mode: 802.11ac

Polarization: H

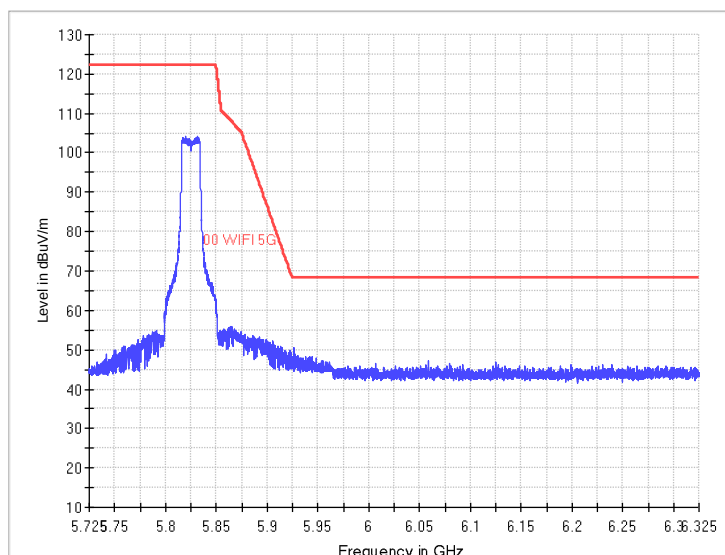


Radiated Emission Band Edge

Channel No.:165

Test Mode: 802.11ac

Polarization: V

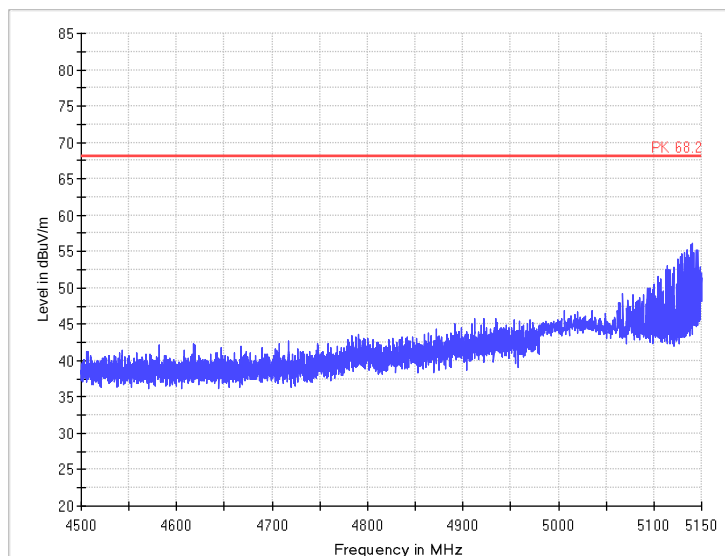


Radiated Emission Band Edge

Channel No.:165

Test Mode: 802.11ac

Polarization: H

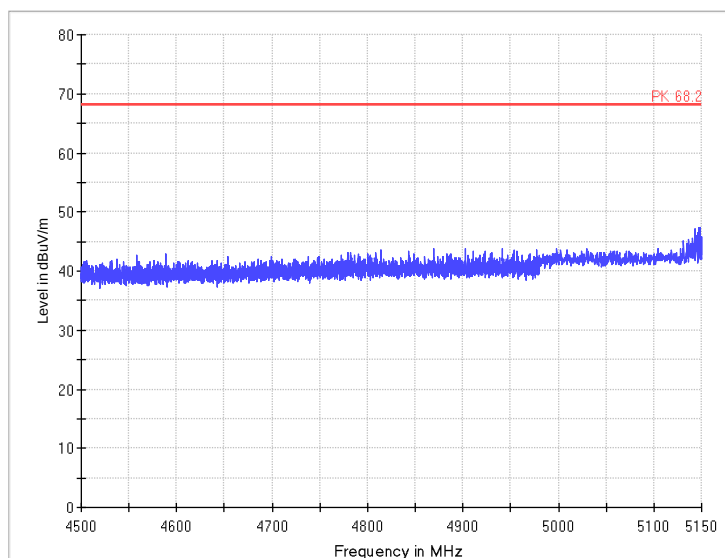


Radiated Emission Band Edge

Channel No.:36

Test Mode: 802.11ax

Polarization: V



Radiated Emission Band Edge

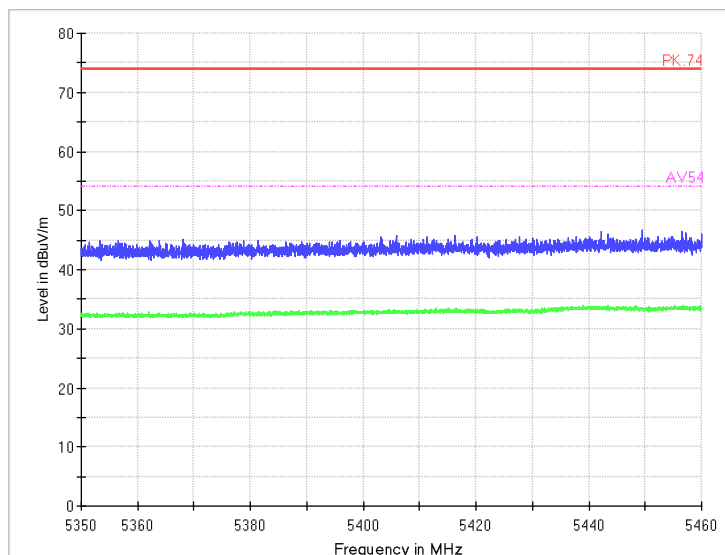
Channel No.:36



Test Report No.: PSU-NQN2502170213RF010

Test Mode: 802.11ax

Polarization: H

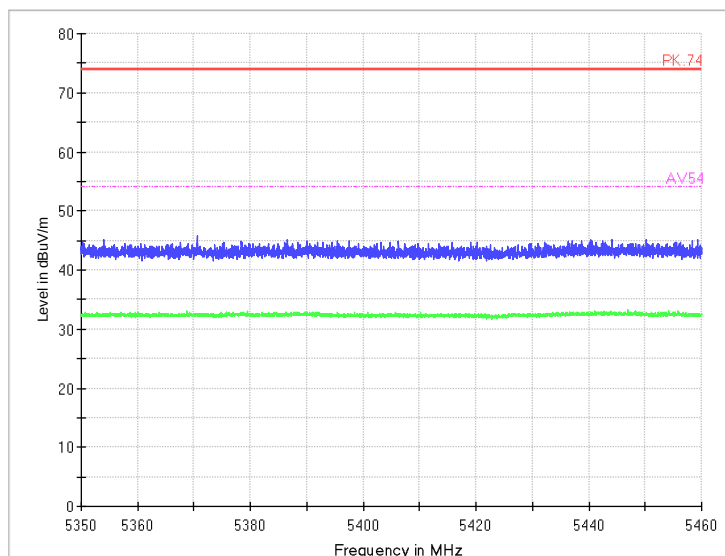


Radiated Emission Band Edge

Channel No.:48

Test Mode: 802.11ax

Polarization: V



Radiated Emission Band Edge

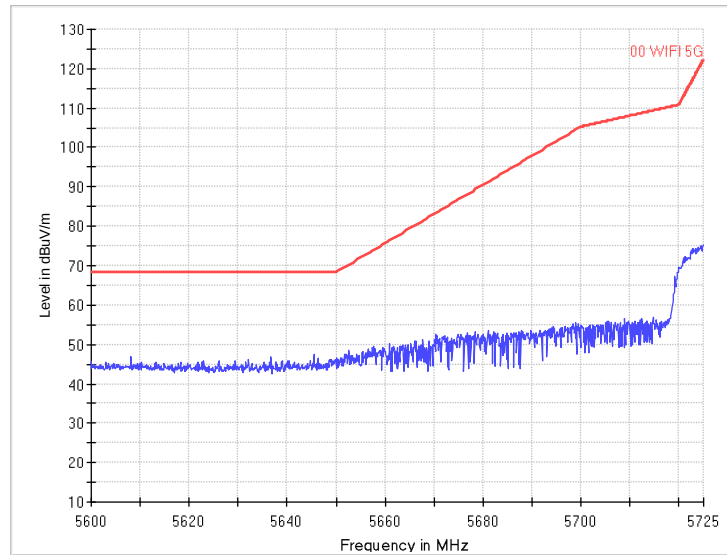
Channel No.:48

Test Mode: 802.11ax

Polarization: H



Test Report No.: PSU-NQN2502170213RF010

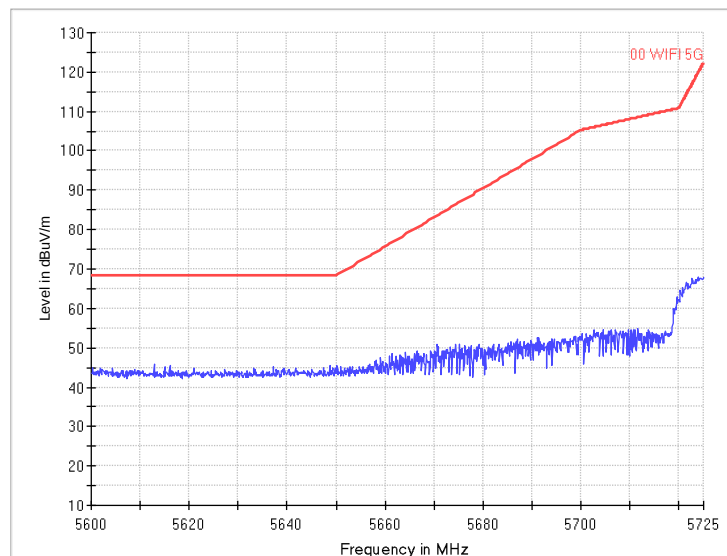


Radiated Emission Band Edge

Channel No.:149

Test Mode: 802.11ax

Polarization: V

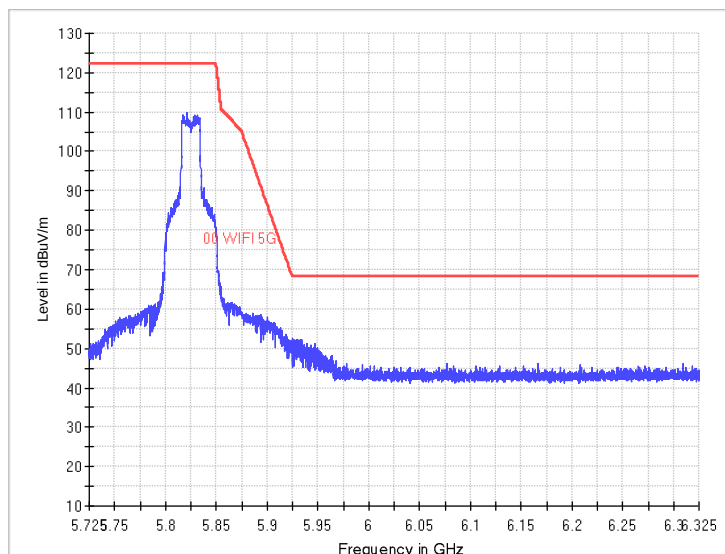


Radiated Emission Band Edge

Channel No.:149

Test Mode: 802.11ax

Polarization: H

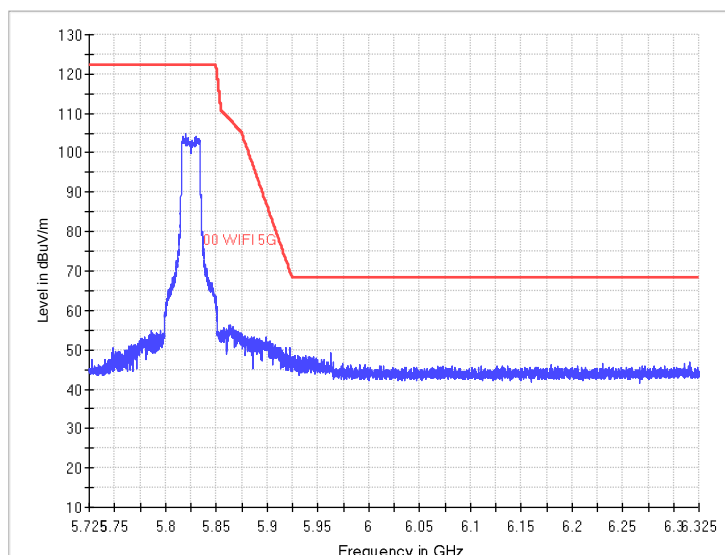


Radiated Emission Band Edge

Channel No.:165

Test Mode: 802.11ax

Polarization: V



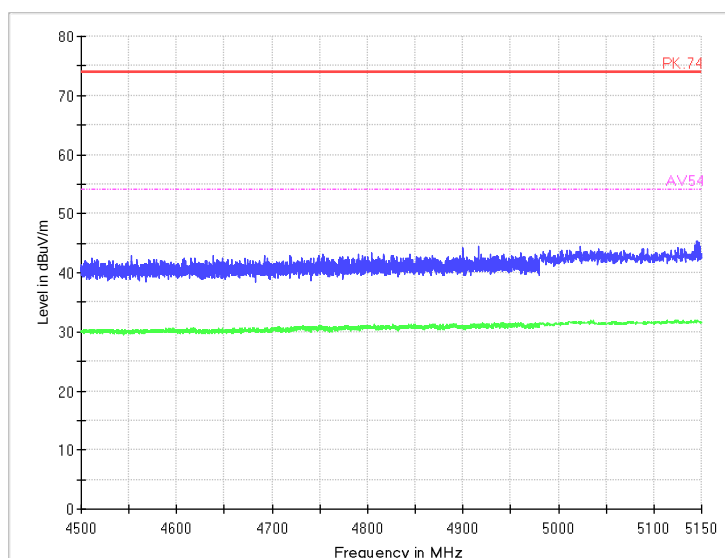
Radiated Emission Band Edge

Channel No.:165

Test Mode: 802.11ax

Polarization: H

Partial RU (Tone26)

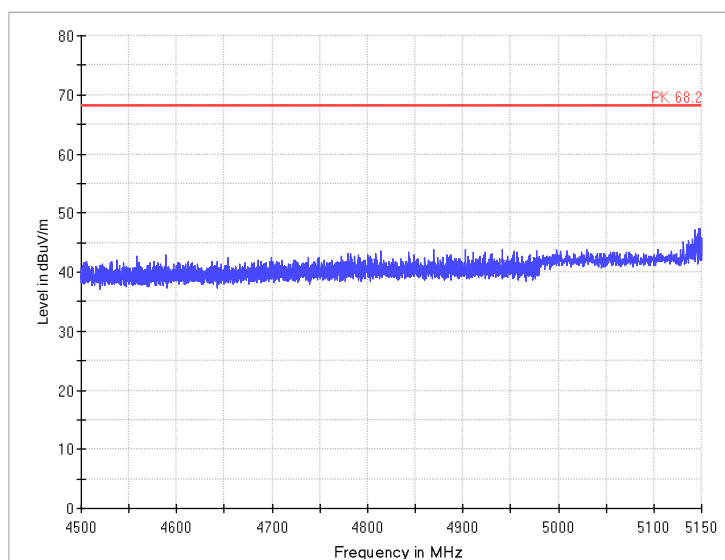


Radiated Emission Band Edge

Channel No.:36

Test Mode: 802.11ax

Polarization: V



Radiated Emission Band Edge

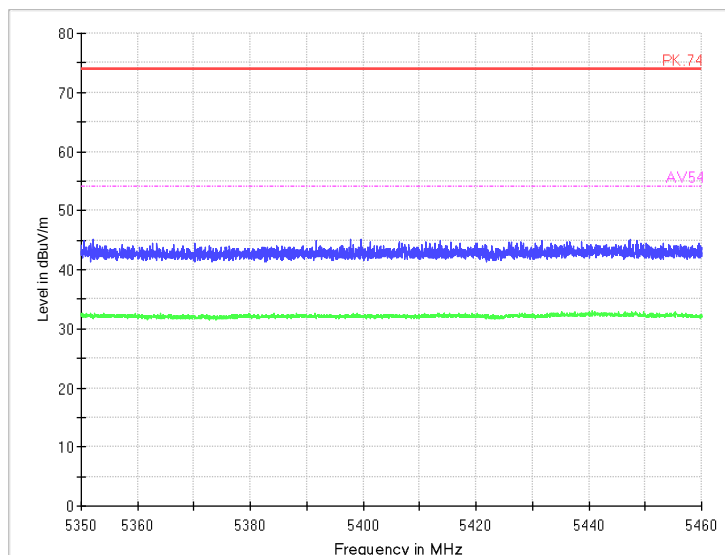


Test Report No.: PSU-NQN2502170213RF010

Channel No.:36

Test Mode: 802.11ax

Polarization: H

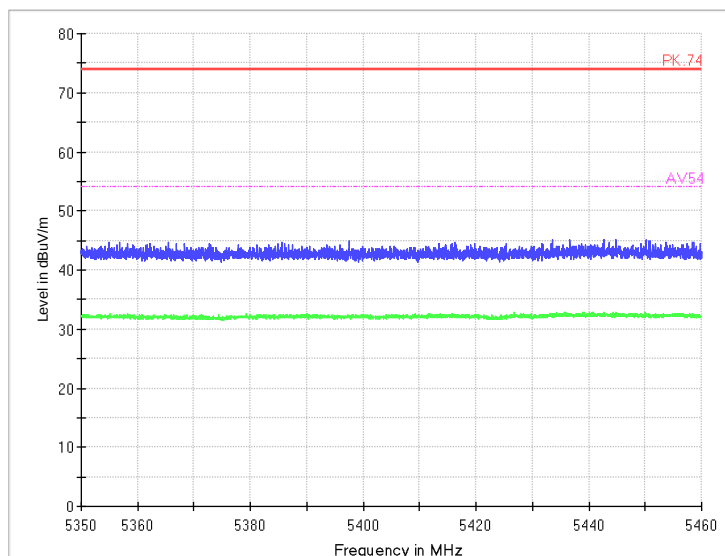


Radiated Emission Band Edge

Channel No.:48

Test Mode: 802.11ax

Polarization: V



Radiated Emission Band Edge

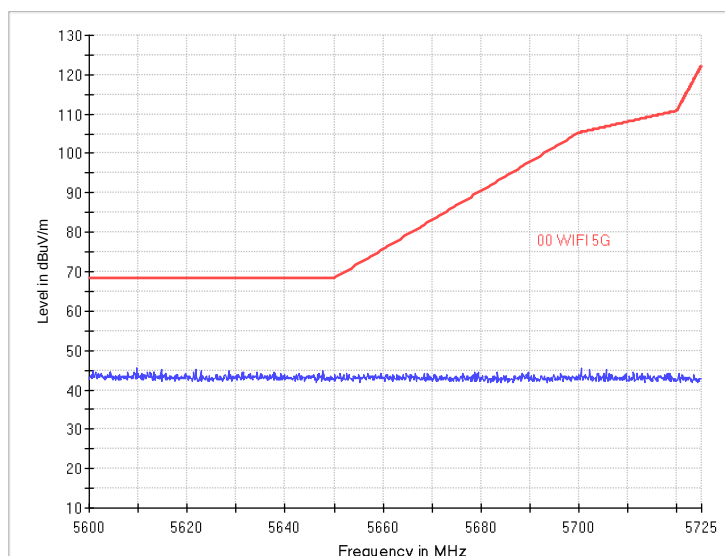
Channel No.:48

Test Mode: 802.11ax

Polarization: H



Test Report No.: PSU-NQN2502170213RF010

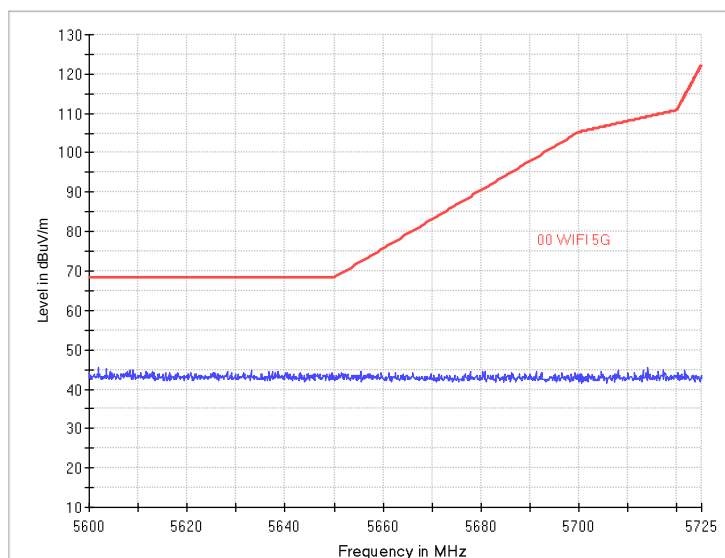


Radiated Emission Band Edge

Channel No.:149

Test Mode: 802.11ax

Polarization: V

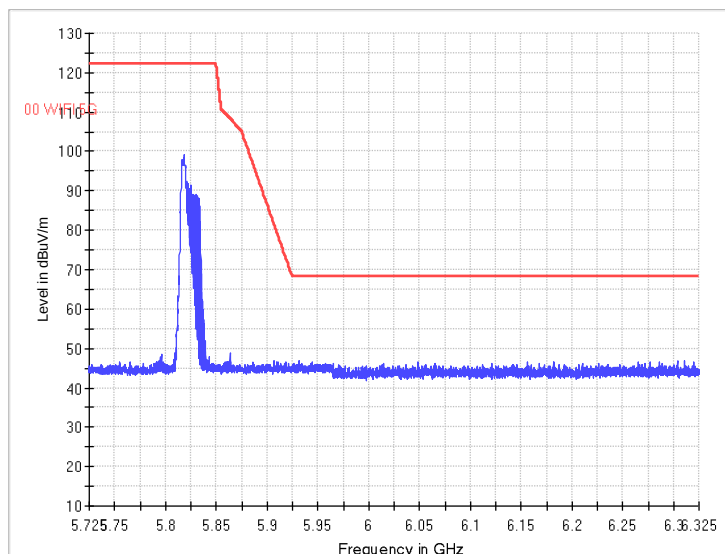


Radiated Emission Band Edge

Channel No.:149

Test Mode: 802.11ax

Polarization: H

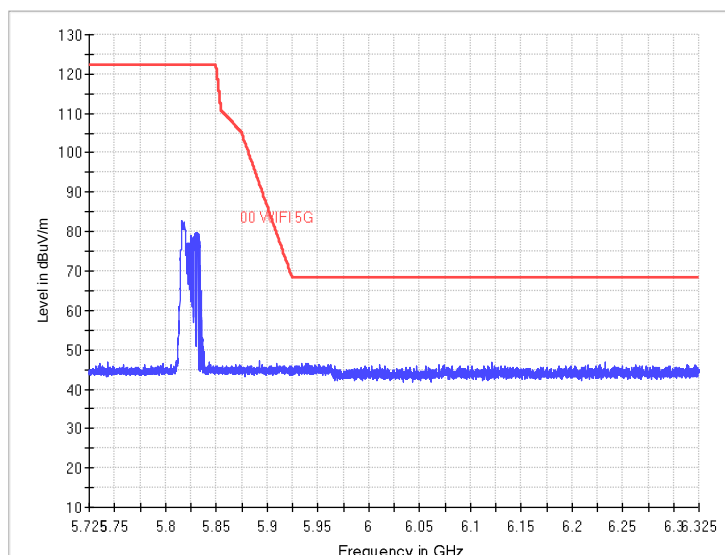


Radiated Emission Band Edge

Channel No.:165

Test Mode: 802.11ax

Polarization: V



Radiated Emission Band Edge

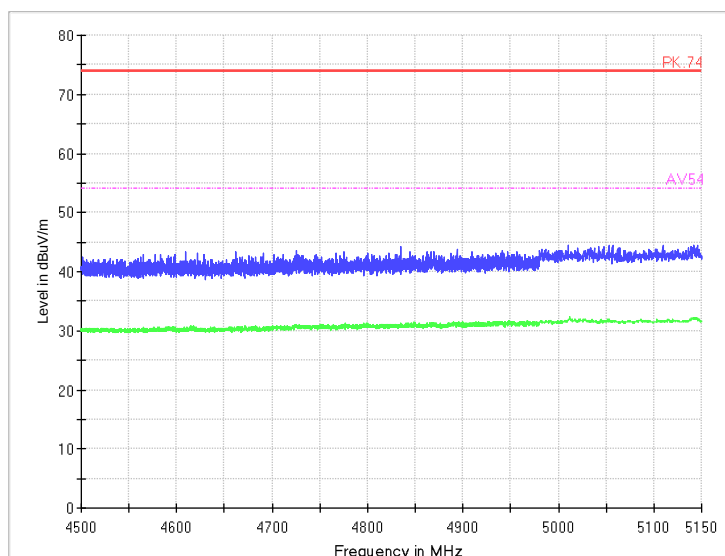
Channel No.:165

Test Mode: 802.11ax

Polarization: H



40M

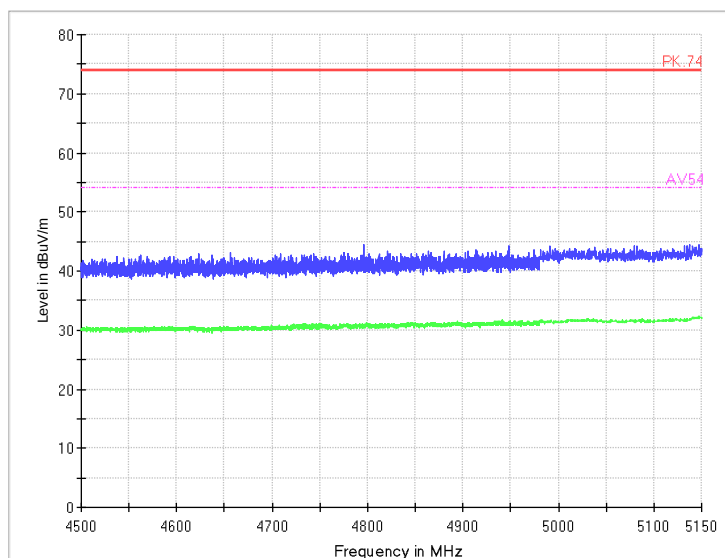


Radiated Emission Band Edge

Channel No.:38

Test Mode: 802.11n

Polarization: V

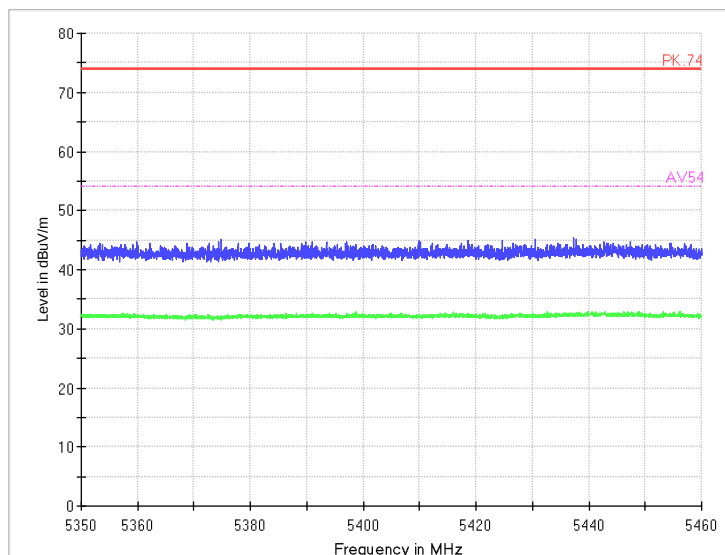


Radiated Emission Band Edge

Channel No.:38

Test Mode: 802.11n

Polarization: H

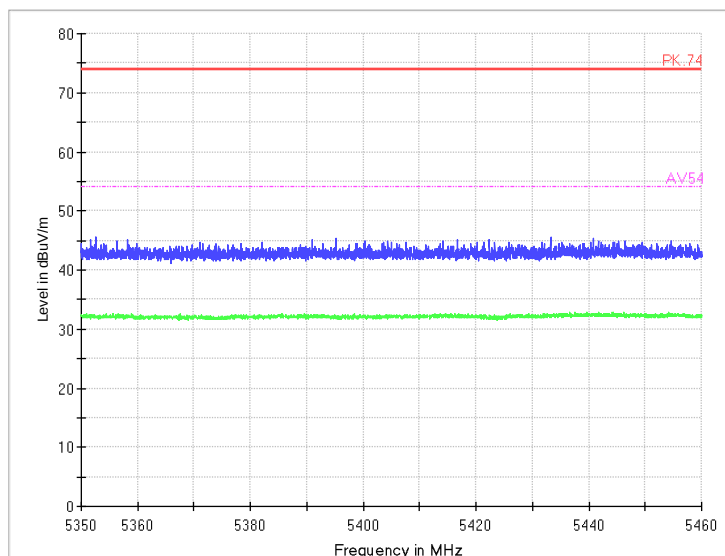


Radiated Emission Band Edge

Channel No.:46

Test Mode: 802.11n

Polarization: V



Radiated Emission Band Edge

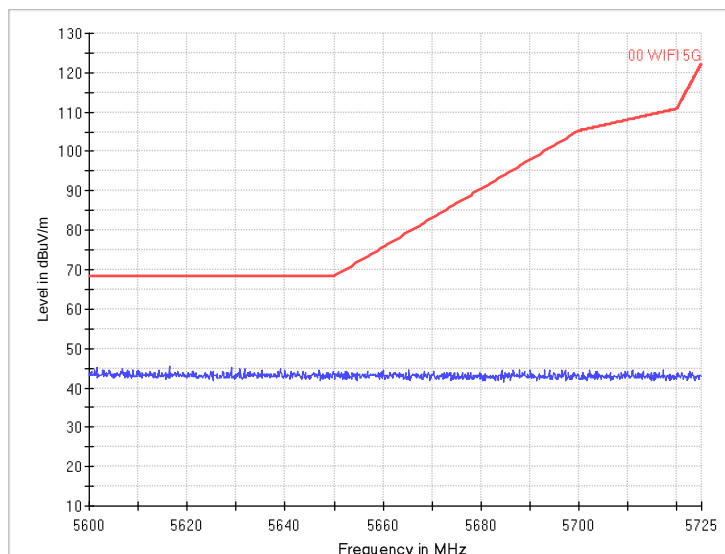
Channel No.:46

Test Mode: 802.11n

Polarization: H



Test Report No.: PSU-NQN2502170213RF010

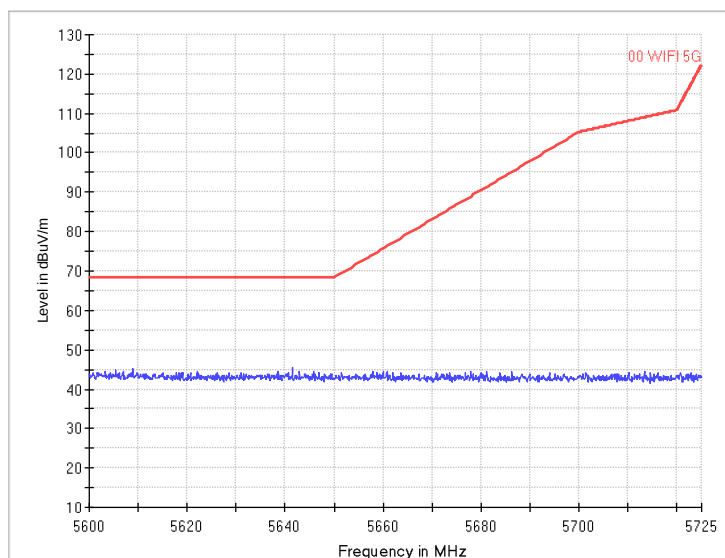


Radiated Emission Band Edge

Channel No.:151

Test Mode: 802.11n

Polarization: V

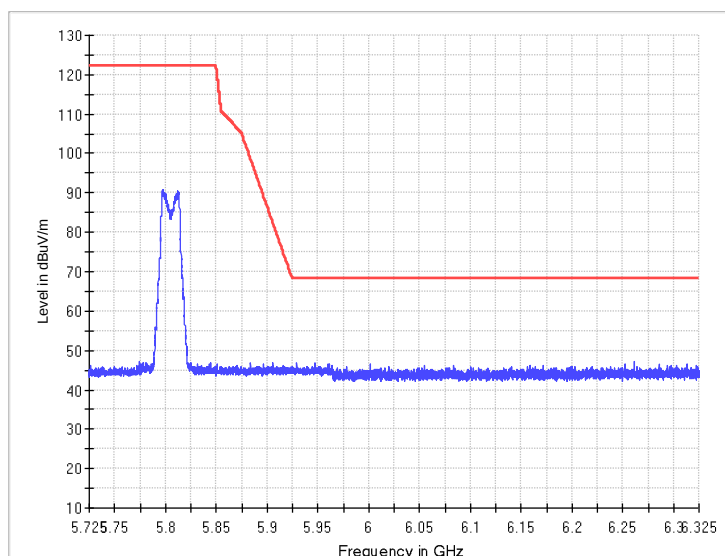


Radiated Emission Band Edge

Channel No.:151

Test Mode: 802.11n

Polarization: H

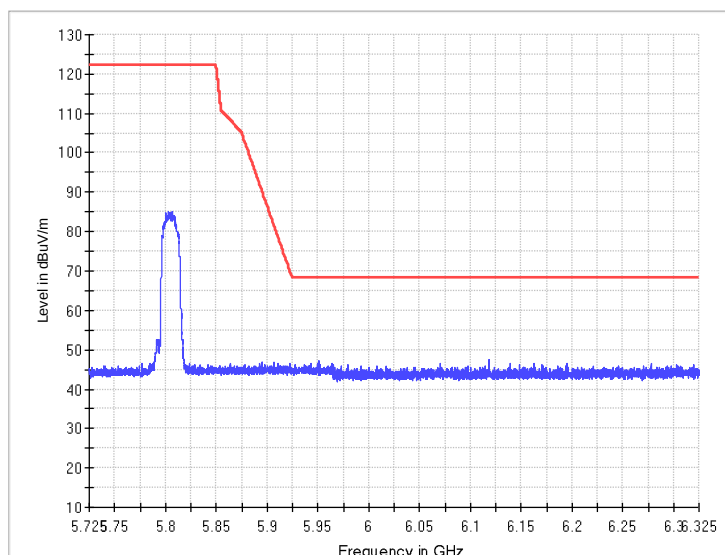


Radiated Emission Band Edge

Channel No.:159

Test Mode: 802.11n

Polarization: V

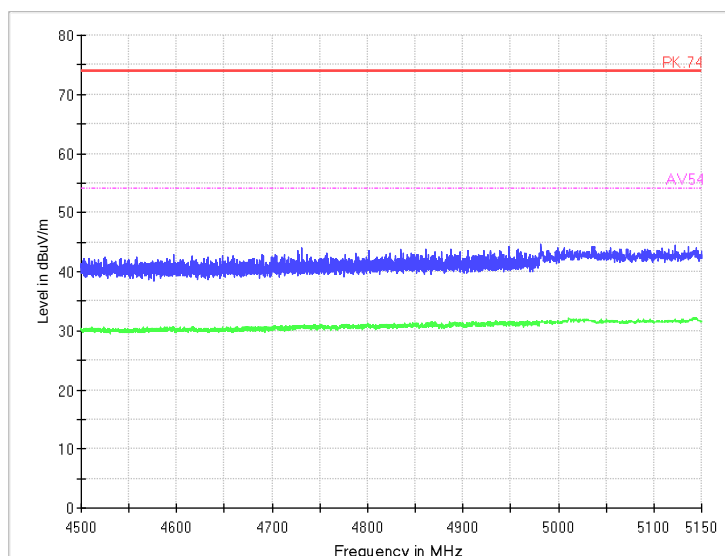


Radiated Emission Band Edge

Channel No.:159

Test Mode: 802.11n

Polarization: H

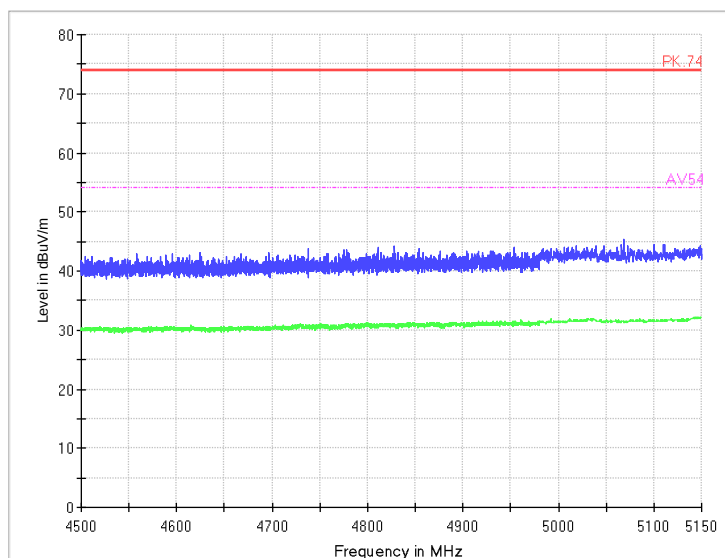


Radiated Emission Band Edge

Channel No.:38

Test Mode: 802.11ac

Polarization: V

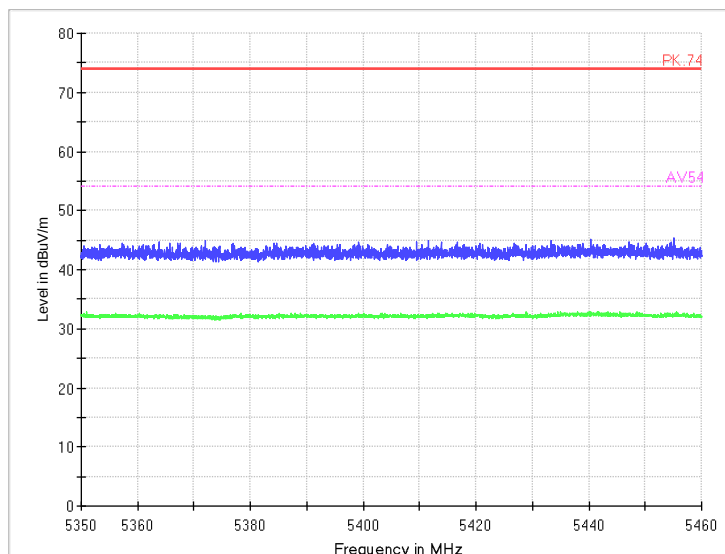


Radiated Emission Band Edge

Channel No.:38

Test Mode: 802.11ac

Polarization: H

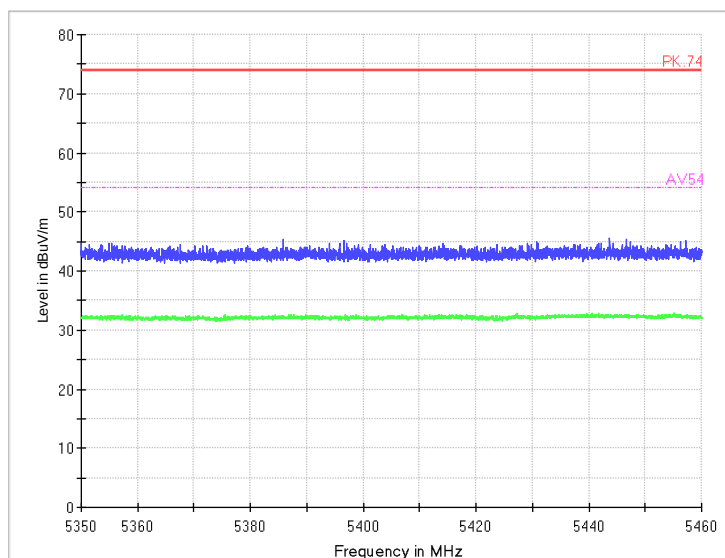


Radiated Emission Band Edge

Channel No.:46

Test Mode: 802.11ac

Polarization: V

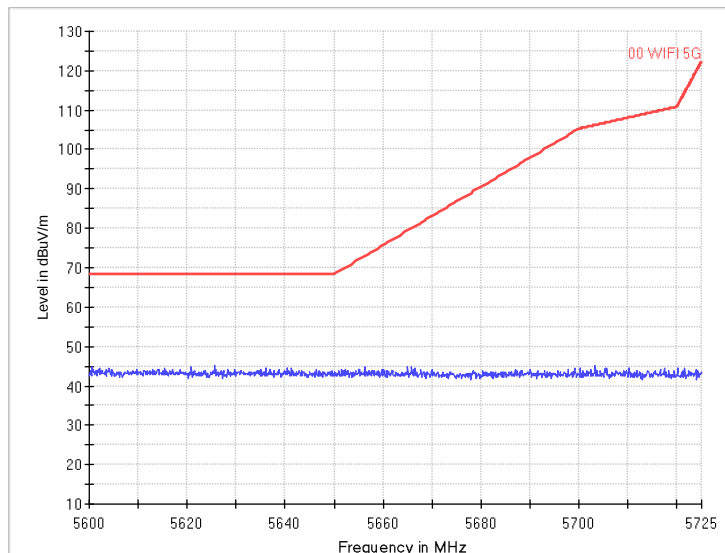


Radiated Emission Band Edge

Channel No.:46

Test Mode: 802.11ac

Polarization: H

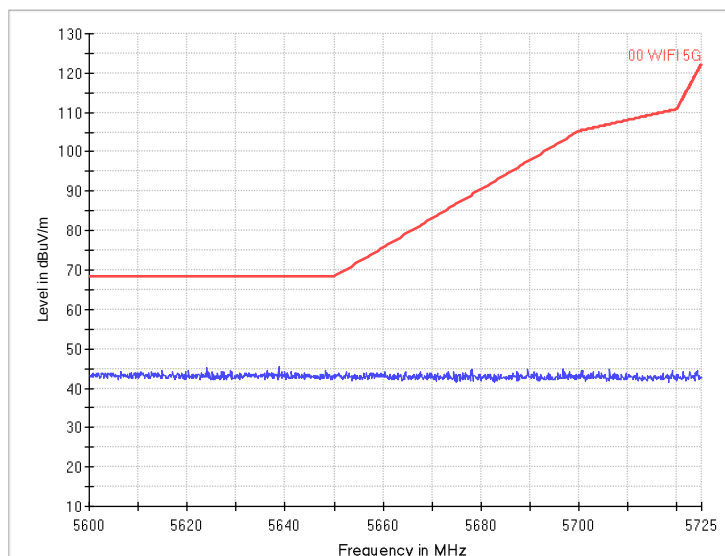


Radiated Emission Band Edge

Channel No.:151

Test Mode: 802.11ac

Polarization: V



Radiated Emission Band Edge

Channel No.:151

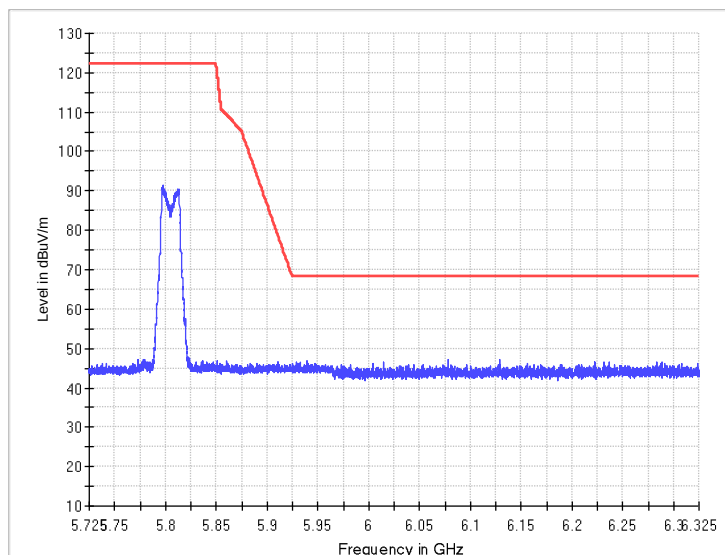
Test Mode: 802.11ac

Polarization: H



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Test Report No.: PSU-NQN2502170213RF010

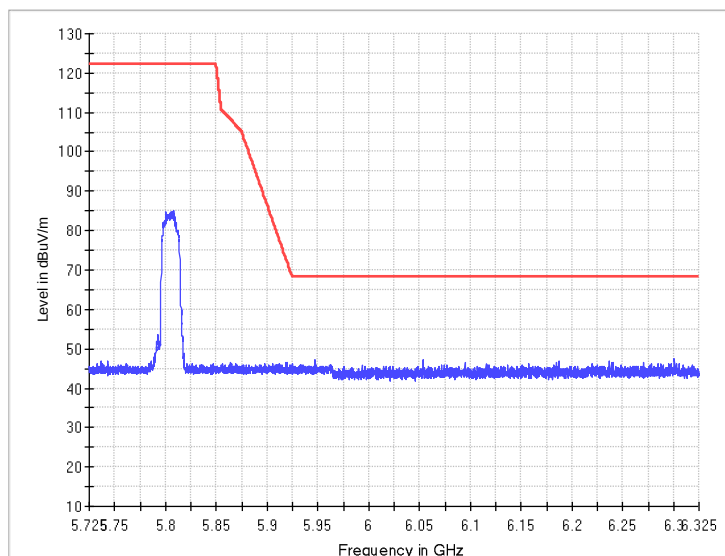


Radiated Emission Band Edge

Channel No.:159

Test Mode: 802.11ac

Polarization: V

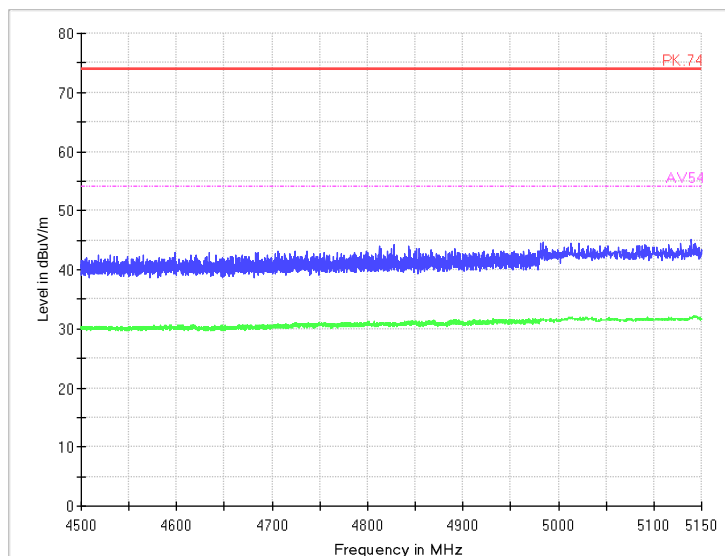


Radiated Emission Band Edge

Channel No.:159

Test Mode: 802.11ac

Polarization: H

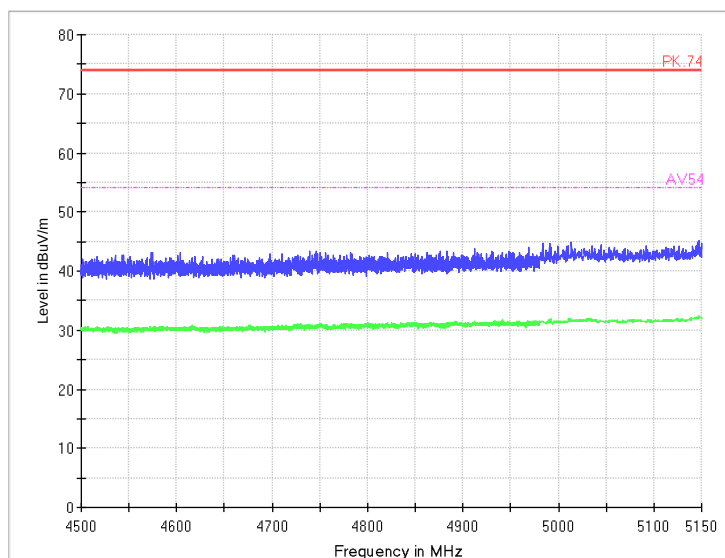


Radiated Emission Band Edge

Channel No.:38

Test Mode: 802.11ax

Polarization: V



Radiated Emission Band Edge

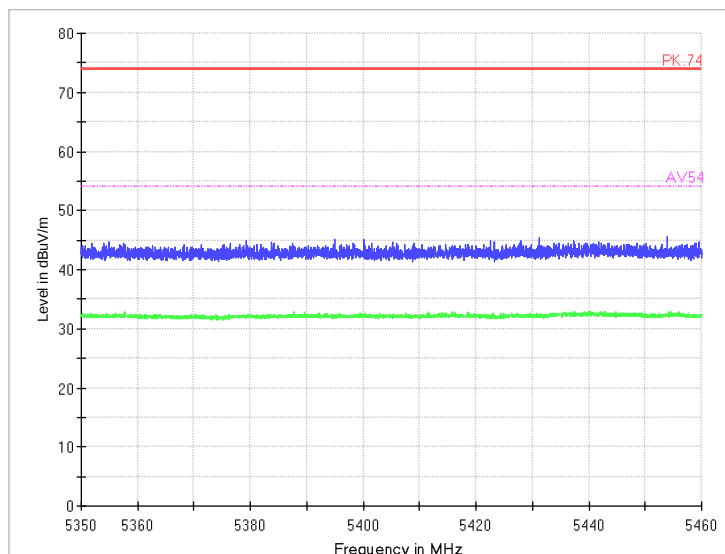
Channel No.:38



Test Report No.: PSU-NQN2502170213RF010

Test Mode: 802.11ax

Polarization: H

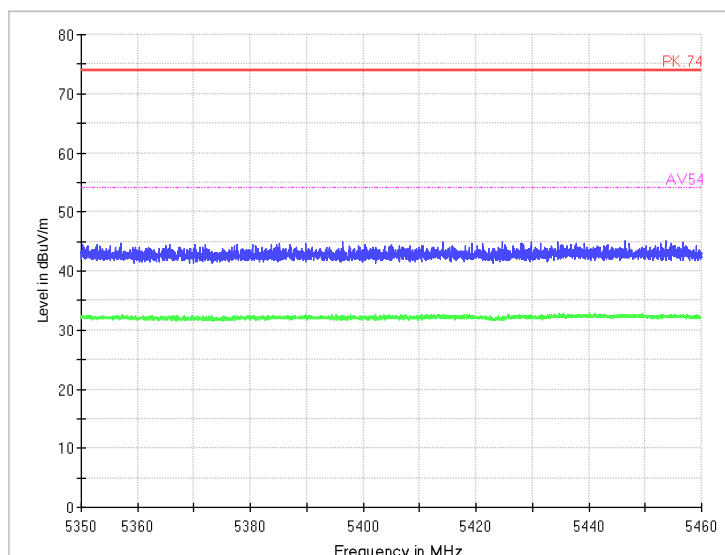


Radiated Emission Band Edge

Channel No.:46

Test Mode: 802.11ax

Polarization: V

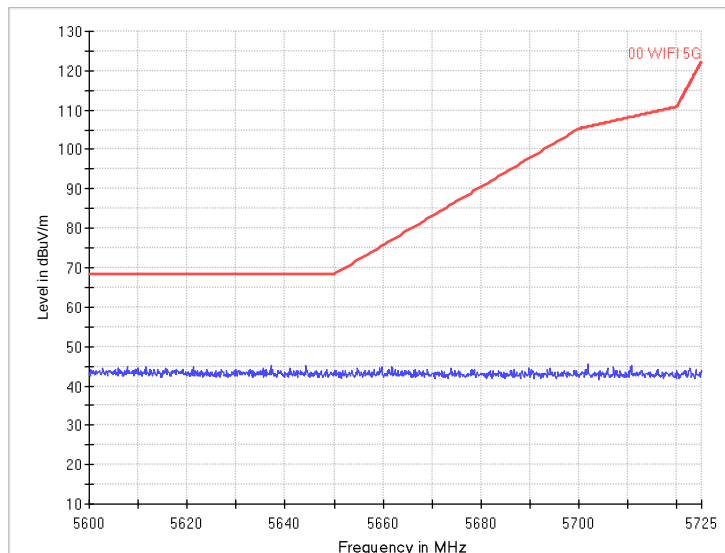


Radiated Emission Band Edge

Channel No.:46

Test Mode: 802.11ax

Polarization: H

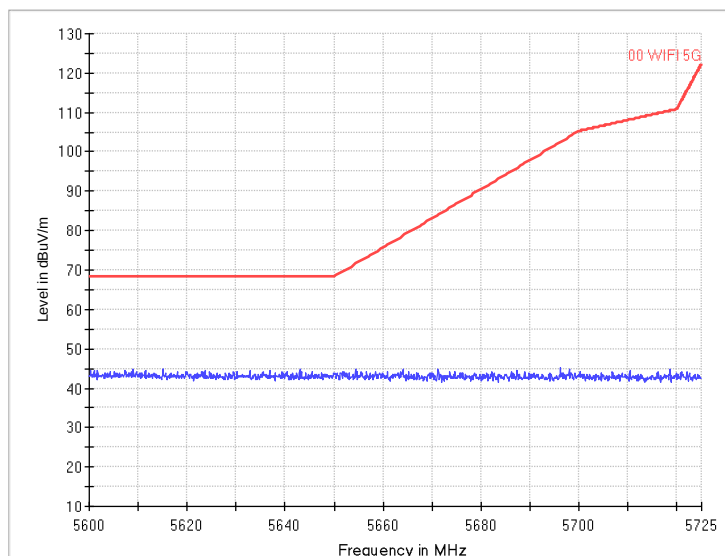


Radiated Emission Band Edge

Channel No.:151

Test Mode: 802.11ax

Polarization: V

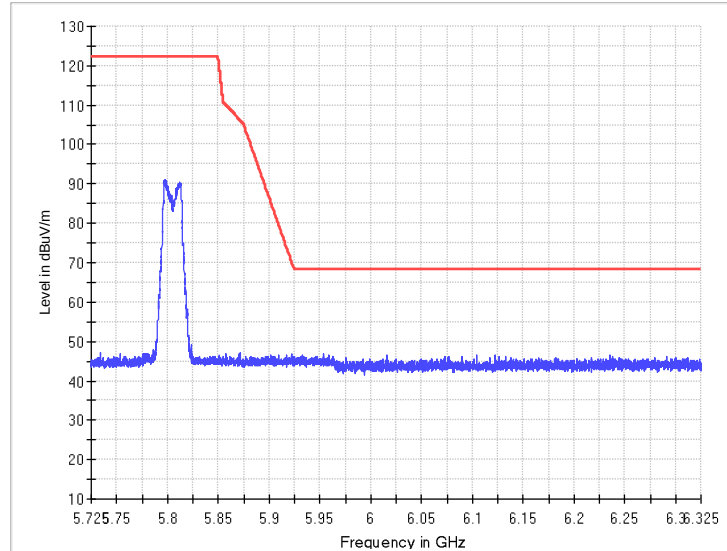


Radiated Emission Band Edge

Channel No.:151

Test Mode: 802.11ax

Polarization: H

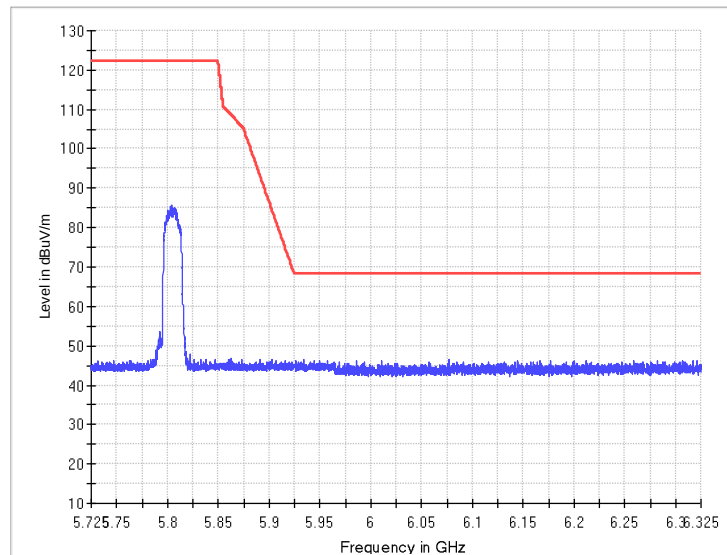


Radiated Emission Band Edge

Channel No.:159

Test Mode: 802.11ax

Polarization: V



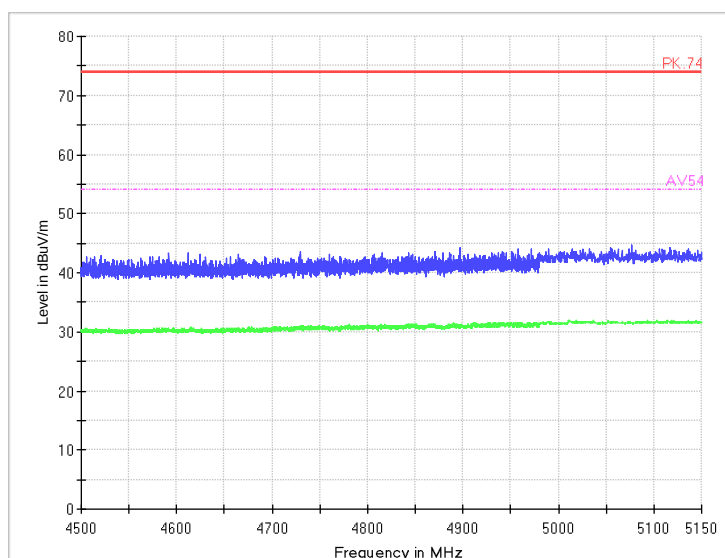
Radiated Emission Band Edge

Channel No.:159

Test Mode: 802.11ax

Polarization: H

Partial RU (Tone26)

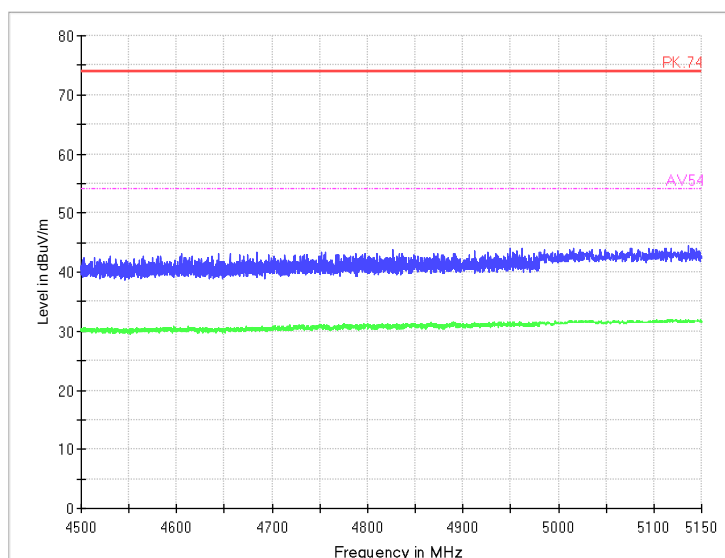


Radiated Emission Band Edge

Channel No.:38

Test Mode: 802.11ax

Polarization: V



Radiated Emission Band Edge

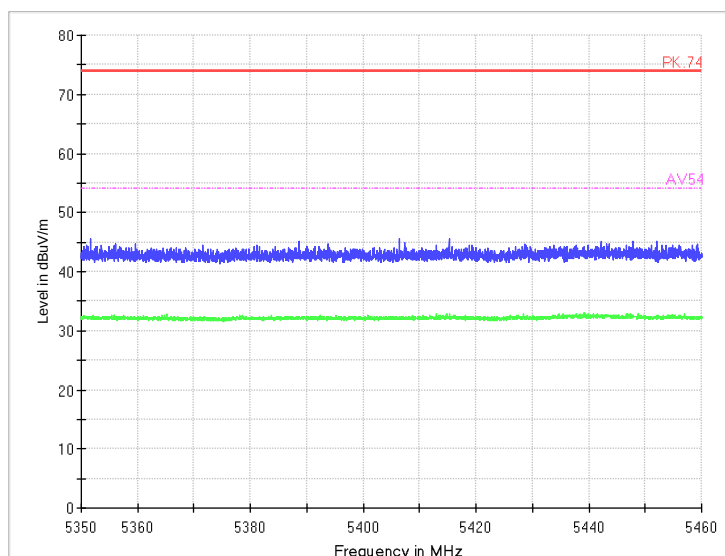


Test Report No.: PSU-NQN2502170213RF010

Channel No.:38

Test Mode: 802.11ax

Polarization: H

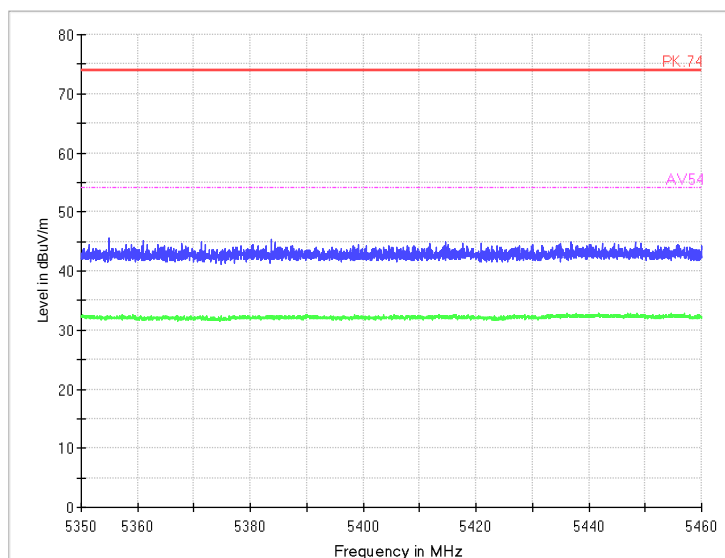


Radiated Emission Band Edge

Channel No.:46

Test Mode: 802.11ax

Polarization: V

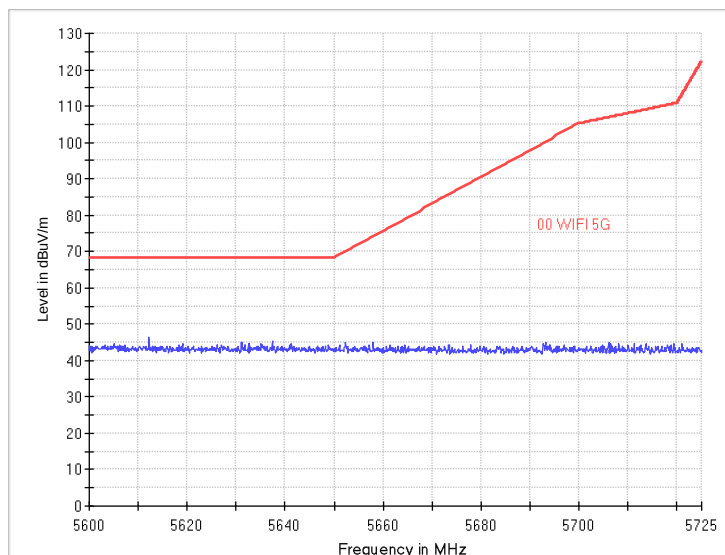


Radiated Emission Band Edge

Channel No.:46

Test Mode: 802.11ax

Polarization: H

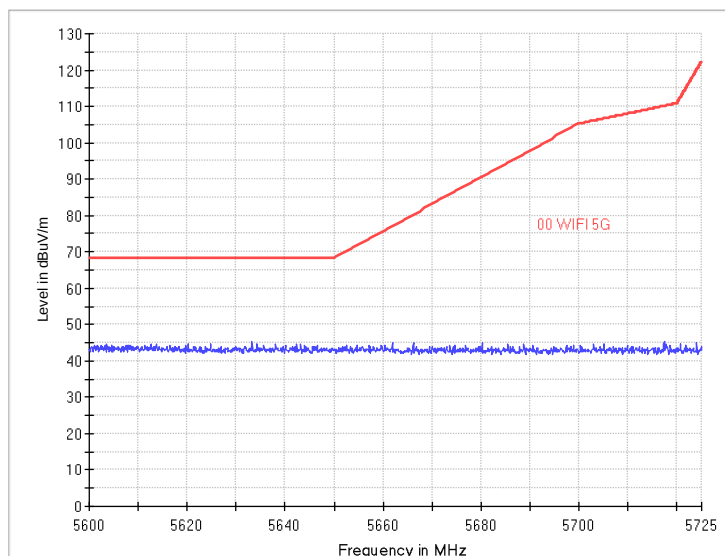


Radiated Emission Band Edge

Channel No.:151

Test Mode: 802.11ax

Polarization: V

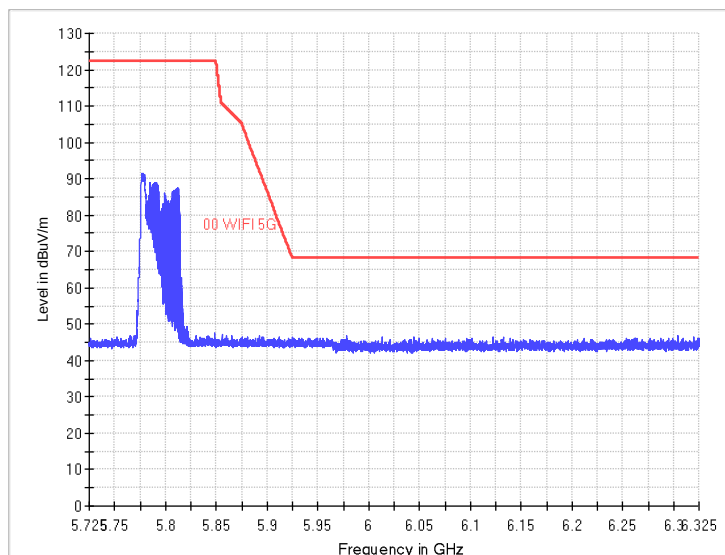


Radiated Emission Band Edge

Channel No.:151

Test Mode: 802.11ax

Polarization: H

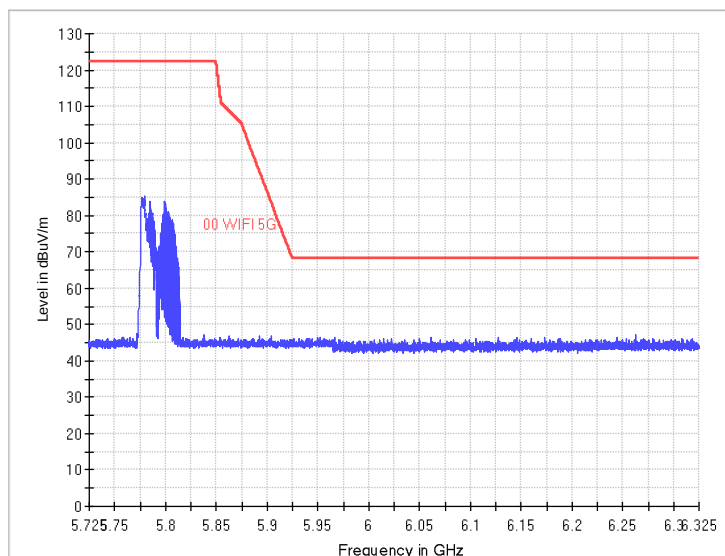


Radiated Emission Band Edge

Channel No.:159

Test Mode: 802.11ax

Polarization: V



Radiated Emission Band Edge

Channel No.:159

Test Mode: 802.11ax

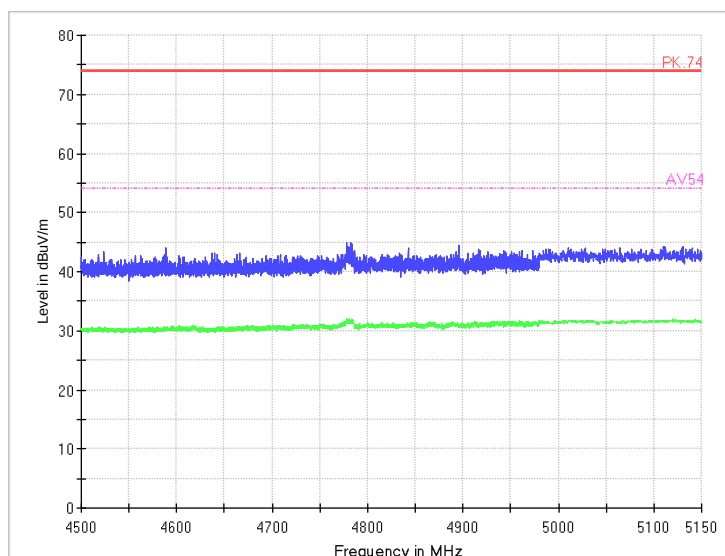
Polarization: H



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Test Report No.: PSU-NQN2502170213RF010

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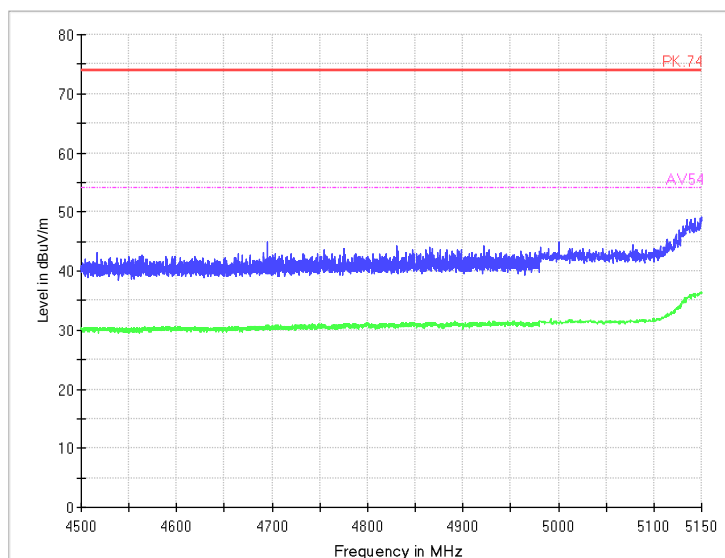


Radiated Emission Band Edge

Channel No.:42

Test Mode: 802.11ac

Polarization: V

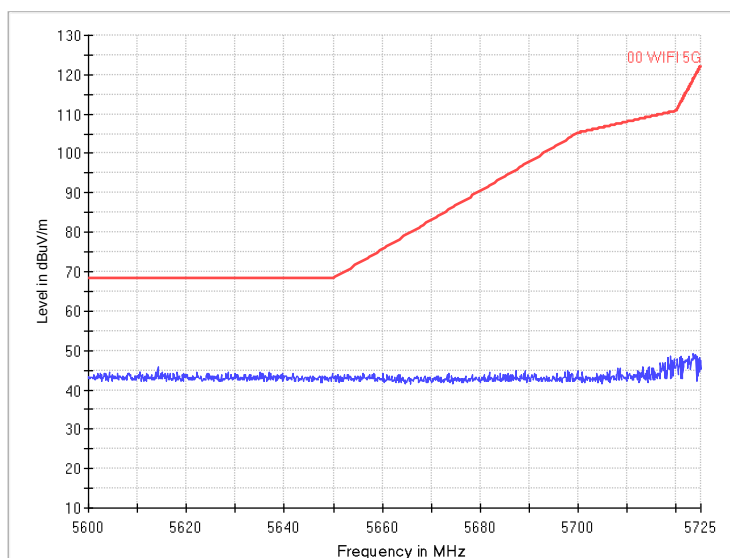


Radiated Emission Band Edge

Channel No.:42

Test Mode: 802.11ac

Polarization: H

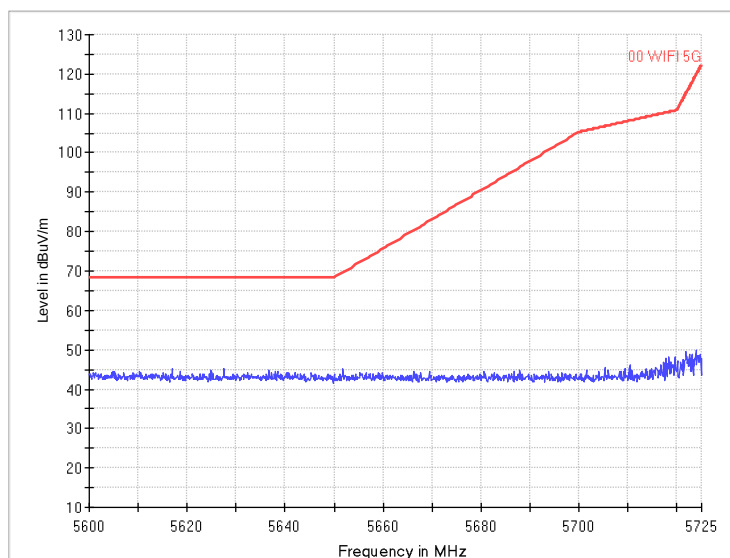


Radiated Emission Band Edge

Channel No.:155

Test Mode: 802.11ac

Polarization: V

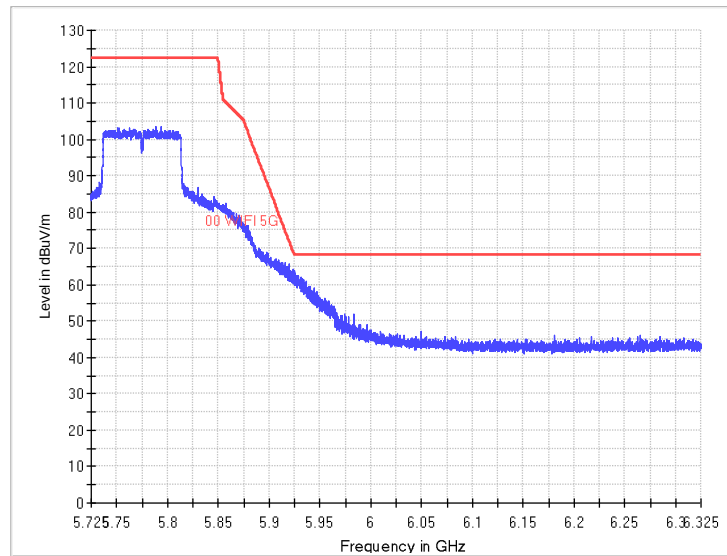


Radiated Emission Band Edge

Channel No.:155

Test Mode: 802.11ac

Polarization: H

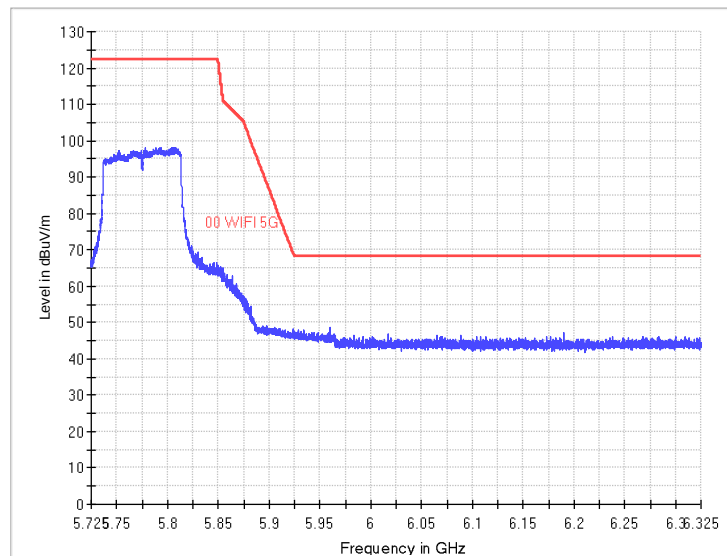


Radiated Emission Band Edge

Channel No.:155

Test Mode: 802.11ac

Polarization: V

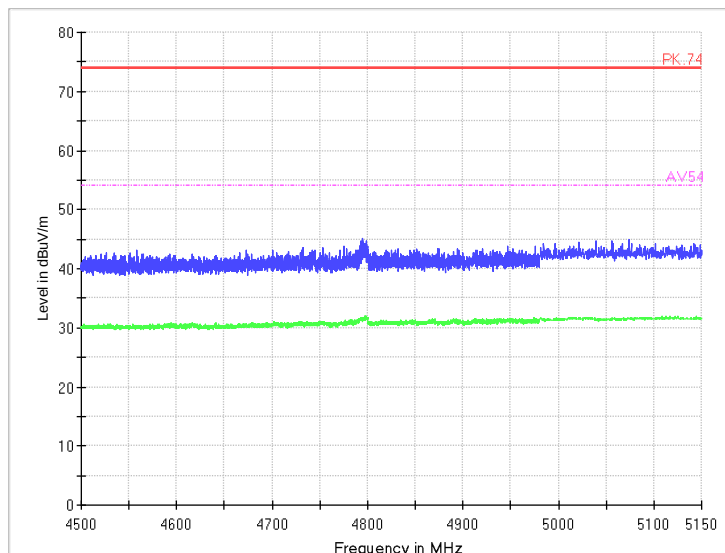


Radiated Emission Band Edge

Channel No.:155

Test Mode: 802.11ac

Polarization: H

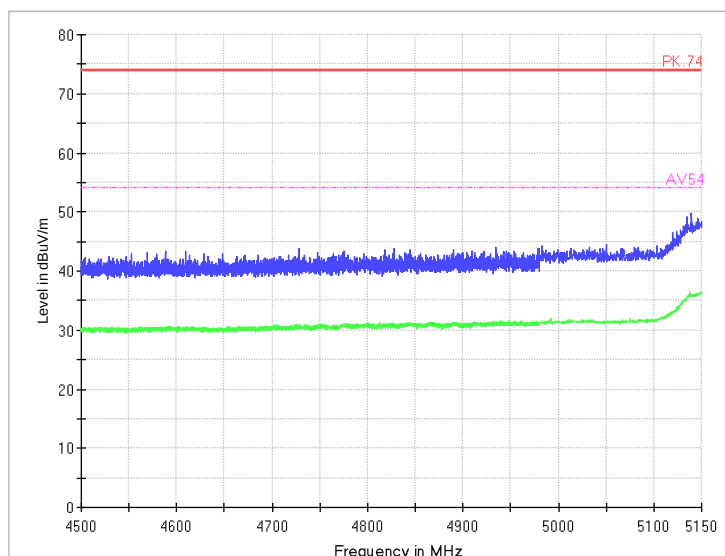


Radiated Emission Band Edge

Channel No.:42

Test Mode: 802.11ax

Polarization: V



Radiated Emission Band Edge

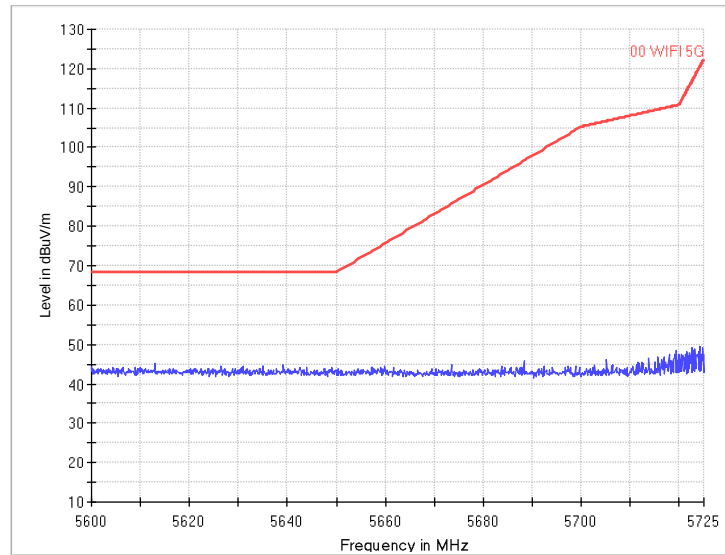
Channel No.:42

Test Mode: 802.11ax



Test Report No.: PSU-NQN2502170213RF010

Polarization: H

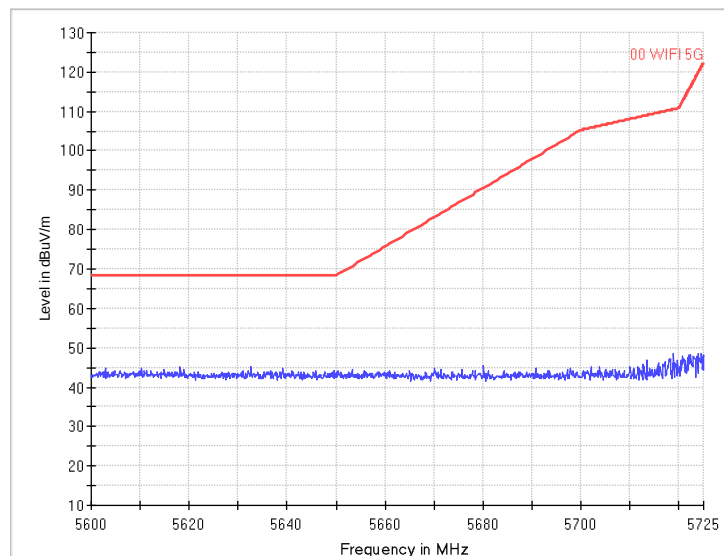


Radiated Emission Band Edge

Channel No.:155

Test Mode: 802.11ax

Polarization: V



Radiated Emission Band Edge

Channel No.:155

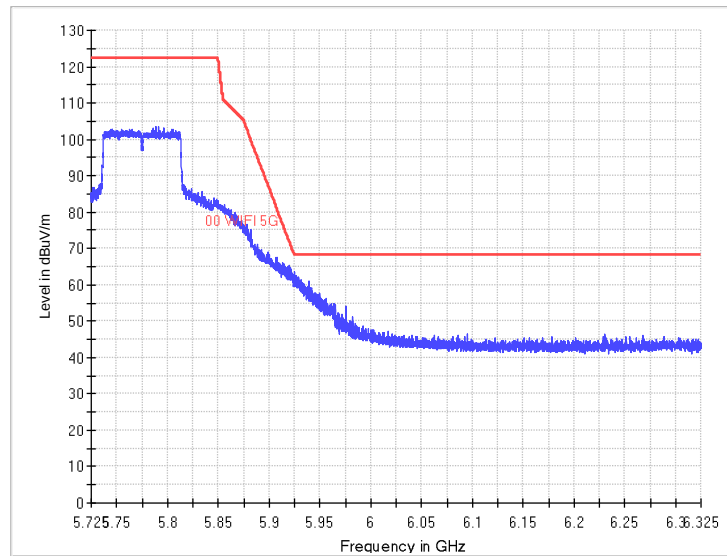
Test Mode: 802.11ax

Polarization: H



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Test Report No.: PSU-NQN2502170213RF010

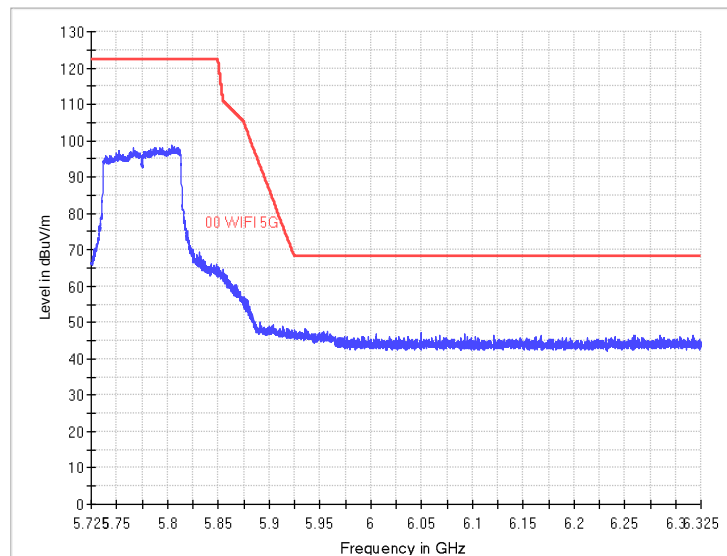


Radiated Emission Band Edge

Channel No.:155

Test Mode: 802.11ax

Polarization: V



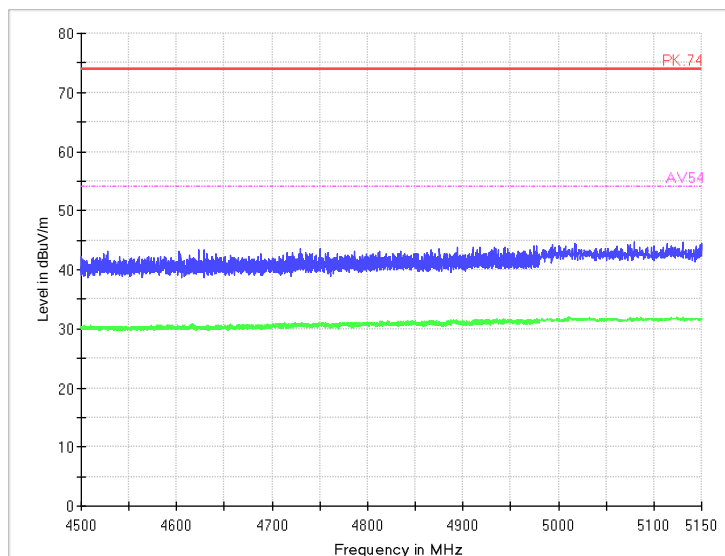
Radiated Emission Band Edge

Channel No.:155

Test Mode: 802.11ax

Polarization: H

Partial RU (Tone26)

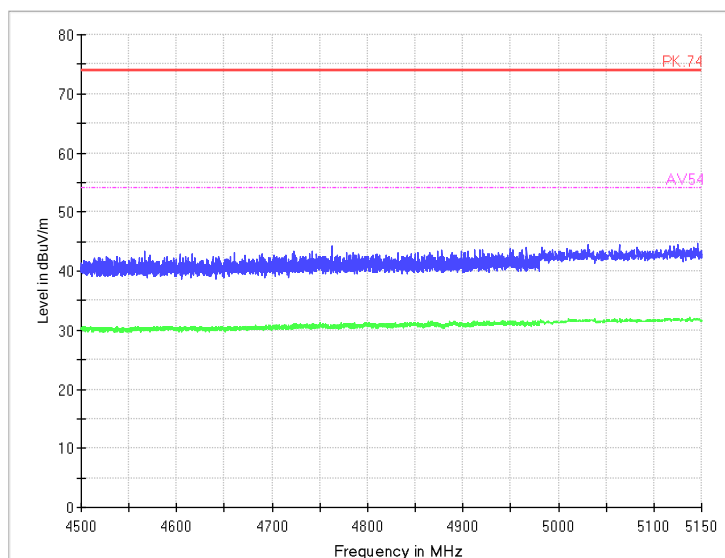


Radiated Emission Band Edge

Channel No.:42

Test Mode: 802.11ax

Polarization: V



Radiated Emission Band Edge

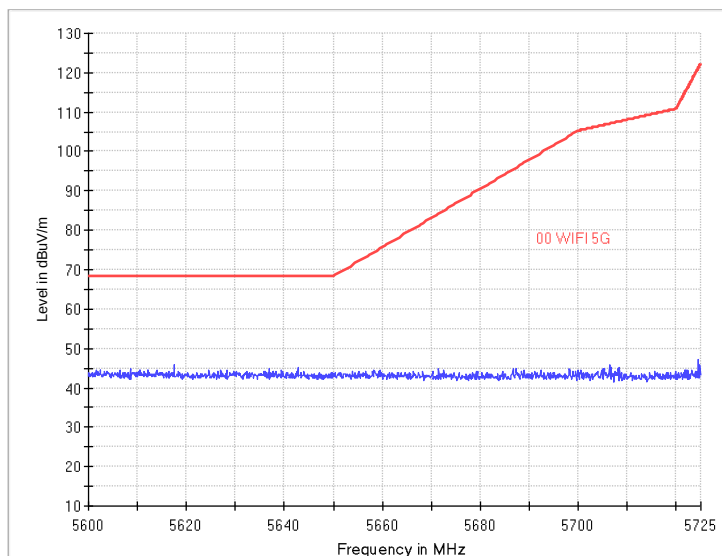
Channel No.:42



Test Report No.: PSU-NQN2502170213RF010

Test Mode: 802.11ax

Polarization: H

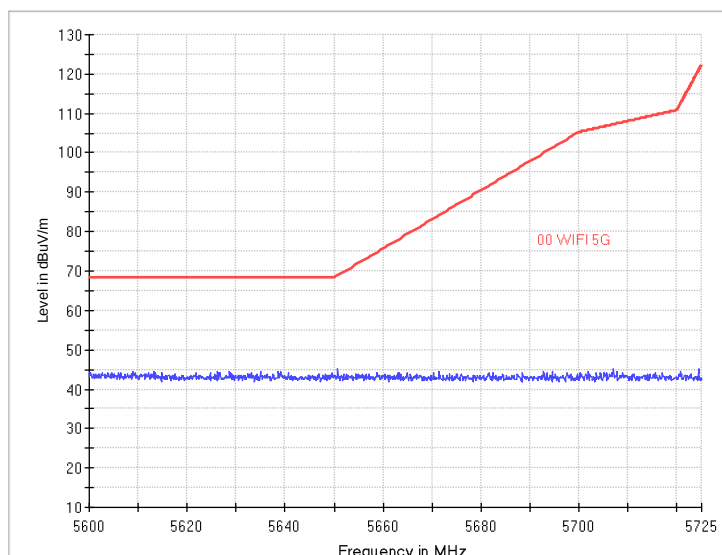


Radiated Emission Band Edge

Channel No.:155

Test Mode: 802.11ax

Polarization: V

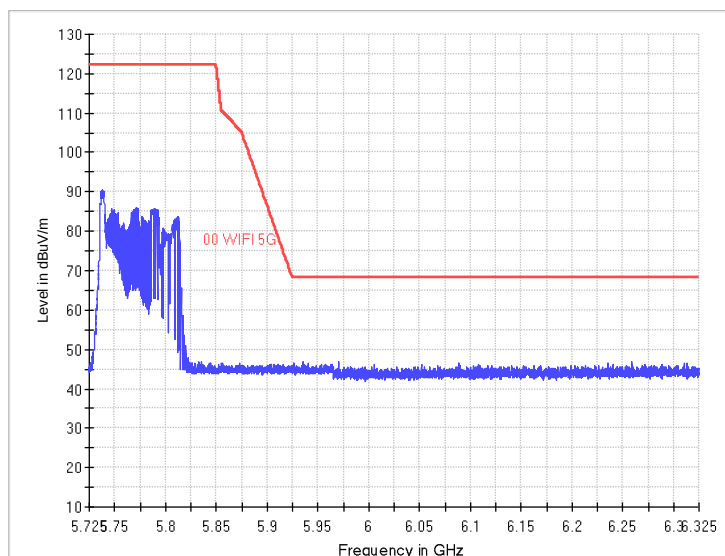


Radiated Emission Band Edge

Channel No.:155

Test Mode: 802.11ax

Polarization: H

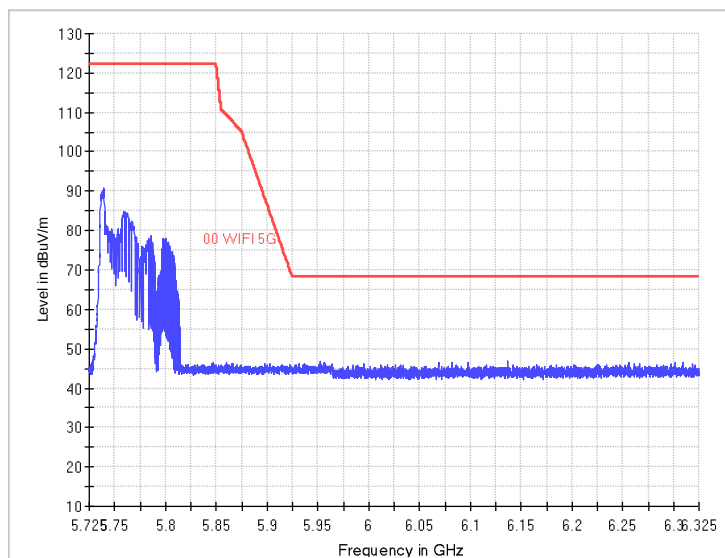


Radiated Emission Band Edge

Channel No.:155

Test Mode: 802.11ax

Polarization: V



Radiated Emission Band Edge

Channel No.:155

Test Mode: 802.11ax

Polarization: H



Radiated Emission for WIFI

After comparison, the worst case attitude is EUT lay down.

Determining Spurious Emissions Levels

A “reference path loss” is established and the A_{Rpl} is the attenuation of “reference path loss”, and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

The measurement results are obtained as described below:

$$\text{Result} = P_{\text{mea}} + A_{Rpl}$$

Sample calculation: $(18.65 \text{ dB}\mu\text{V/m}) = (34.45 \text{ dB}\mu\text{V}) + (-15.8 \text{ dB/m})$, the corresponding frequency is 45.7625 MHz.

For 802.11a Channel No.: 36

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
45.7625	18.65	-15.8	34.45	Vertical	40	21.35
53.862	11.95	-15.6	27.55	Vertical	40	28.05
132.432	15.34	-20.4	35.74	Vertical	43.5	28.16
194.5605	6.94	-16.9	23.84	Vertical	43.5	36.56
494.9695	12.69	-9.2	21.89	Vertical	46	33.31
954.798	18.15	-2.2	20.35	Vertical	46	27.85

For 802.11n(HT20) Channel No.: 36

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
36.4505	16.94	-18.1	35.04	Vertical	40	23.06
53.9105	12.88	-15.6	28.48	Vertical	40	27.12
131.365	15.18	-20.4	35.58	Vertical	43.5	28.32
198.974	7.02	-16.5	23.52	Vertical	43.5	36.48
522.372	13.07	-8.7	21.77	Vertical	46	32.93
933.3125	18.79	-1.7	20.49	Vertical	46	27.21

For 802.11ac(VHT20) Channel No.: 36

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
30.2425	17.46	-18.8	36.26	Vertical	40	22.54



96.154	15.13	-17.8	32.93	Vertical	43.5	28.37
131.0255	15.08	-20.3	35.38	Vertical	43.5	28.42
208.2375	6.27	-17.2	23.47	Vertical	43.5	37.23
514.903	12.99	-8.9	21.89	Vertical	46	33.01
885.6855	18.14	-2.4	20.54	Vertical	46	27.86

For 802.11ax(HE20)Channel No.:36

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
46.2475	18.47	-15.7	34.17	Vertical	40	21.53
54.6865	12.48	-15.6	28.08	Vertical	40	27.52
132.0925	15.24	-20.4	35.64	Vertical	43.5	28.26
305.674	9.23	-13.9	23.13	Vertical	46	36.77
555.934	13.18	-8.1	21.28	Vertical	46	32.82
904.94	18.26	-2.5	20.76	Vertical	46	27.74

For 802.11aChannel No.:44

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
46.005	18.84	-15.8	34.64	Vertical	40	21.16
54.5895	11.73	-15.6	27.33	Vertical	40	28.27
131.3165	15.3	-20.4	35.7	Vertical	43.5	28.2
310.718	9.69	-13.9	23.59	Vertical	46	36.31
518.6375	13.25	-8.8	22.05	Vertical	46	32.75
923.1275	18.73	-1.7	20.43	Vertical	46	27.27

For 802.11n(HT20)Channel No.:44

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
45.7625	18.85	-15.8	34.65	Vertical	40	21.15
54.4925	12.58	-15.6	28.18	Vertical	40	27.42
132.4805	15.08	-20.4	35.48	Vertical	43.5	28.42
305.7225	9.23	-13.9	23.13	Vertical	46	36.77
536.243	13.33	-8.6	21.93	Vertical	46	32.67
894.8035	18.11	-2.5	20.61	Vertical	46	27.89



For 802.11ac(VHT20)Channel No.:44

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
45.7625	18.79	-15.8	34.59	Vertical	40	21.21
54.153	12.56	-15.6	28.16	Vertical	40	27.44
133.2565	14.54	-20.4	34.94	Vertical	43.5	28.96
196.9855	7.32	-16.5	23.82	Vertical	43.5	36.18
496.279	12.65	-9.2	21.85	Vertical	46	33.35
938.405	18.77	-1.8	20.57	Vertical	46	27.23

For 802.11ax(HE20)Channel No.:44

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
45.9565	18.56	-15.8	34.36	Vertical	40	21.44
53.959	12.53	-15.6	28.13	Vertical	40	27.47
132.7715	15.19	-20.4	35.59	Vertical	43.5	28.31
180.2045	5.83	-18.8	24.63	Vertical	43.5	37.67
543.712	13.36	-8.5	21.86	Vertical	46	32.64
921.915	18.84	-1.7	20.54	Vertical	46	27.16

For 802.11aChannel No.:48

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
45.5685	18.34	-15.8	34.14	Vertical	40	21.66
54.153	12.59	-15.6	28.19	Vertical	40	27.41
96.736	15.32	-17.8	33.12	Vertical	43.5	28.18
185.394	6.19	-18.3	24.49	Vertical	43.5	37.31
531.4415	13.31	-8.6	21.91	Vertical	46	32.69
830.9775	17.19	-3.3	20.49	Vertical	46	28.81

For 802.11n(HT20)Channel No.:48

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
46.2475	18.42	-15.7	34.12	Vertical	40	21.58
54.541	12.5	-15.6	28.1	Vertical	40	27.5
130.492	14.46	-20.3	34.76	Vertical	43.5	29.04



309.0205	9.41	-13.9	23.31	Vertical	46	36.6
511.799	12.99	-9	21.99	Vertical	46	33.01
926.7165	18.97	-1.7	20.67	Vertical	46	27.03

For 802.11ac(VHT20)Channel No.:48

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
45.326	18.3	-15.7	34	Vertical	40	21.7
96.542	15.29	-17.8	33.09	Vertical	43.5	28.21
132.3835	15.14	-20.4	35.54	Vertical	43.5	28.36
205.6185	6.33	-17.2	23.53	Vertical	43.5	37.17
516.1155	12.99	-8.9	21.89	Vertical	46	33.01
921.3815	18.87	-1.7	20.57	Vertical	46	27.13

For 802.11ax(HE20)Channel No.:48

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
50.37	17.55	-15.4	32.95	Vertical	40	22.45
54.832	12.35	-15.6	27.95	Vertical	40	27.65
132.3835	15.2	-20.4	35.6	Vertical	43.5	28.3
196.5005	7.24	-16.5	23.74	Vertical	43.5	36.26
507.628	12.61	-9.1	21.71	Vertical	46	33.39
902.1755	18.15	-2.5	20.65	Vertical	46	27.85

For 802.11n(HT40)Channel No.:38

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
45.5685	18.63	-15.8	34.43	Vertical	40	21.37
55.511	10.26	-15.7	25.96	Vertical	40	29.74
131.8015	15.34	-20.4	35.74	Vertical	43.5	28.16
196.7915	7.28	-16.5	23.78	Vertical	43.5	36.22
511.5565	12.96	-9	21.96	Vertical	46	33.04
900.672	18.07	-2.5	20.57	Vertical	46	27.93

For 802.11ac(VHT40)Channel No.:38

Frequency(MHz)	Result(dBuV/m)	ARpl	Pmea	Polarity	Limit	Margin
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		(dB)	(dBuV/m)		(dBuV/m)	(dB)
45.8595	18.52	-15.8	34.32	Vertical	40	21.48
53.862	13	-15.6	28.6	Vertical	40	27
133.111	14.59	-20.4	34.99	Vertical	43.5	28.91
309.5055	9.5	-13.9	23.4	Vertical	46	36.5
523.342	13.14	-8.7	21.84	Vertical	46	32.86
927.25	18.95	-1.7	20.65	Vertical	46	27.05

For 802.11ax(HE40)Channel No.:38

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
45.908	18.64	-15.8	34.44	Vertical	40	21.36
54.153	12.52	-15.6	28.12	Vertical	40	27.48
132.723	14.89	-20.4	35.29	Vertical	43.5	28.61
199.9925	7.13	-16.6	23.73	Vertical	43.5	36.37
500.0135	12.59	-9.3	21.89	Vertical	46	33.41
936.2225	18.7	-1.8	20.5	Vertical	46	27.3

For 802.11n(HT40)Channel No.:46

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
45.2775	18.32	-15.7	34.02	Vertical	40	21.68
54.3955	12.15	-15.6	27.75	Vertical	40	27.85
130.783	14.89	-20.3	35.19	Vertical	43.5	28.61
309.6025	9.5	-13.9	23.4	Vertical	46	36.5
505.4455	12.61	-9.2	21.81	Vertical	46	33.39
938.211	18.71	-1.8	20.51	Vertical	46	27.29

For 802.11ac(VHT40)Channel No.:46

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
45.908	18.39	-15.8	34.19	Vertical	40	21.61
54.3955	11.71	-15.6	27.31	Vertical	40	28.29
130.5405	14.68	-20.3	34.98	Vertical	43.5	28.82
304.0735	9.09	-14	23.09	Vertical	46	36.91
508.889	12.82	-9.1	21.92	Vertical	46	33.18



938.1625	18.76	-1.8	20.56	Vertical	46	27.24
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For 802.11ax(HE40)Channel No.:46

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
49.206	17.24	-15.4	32.64	Vertical	40	22.76
54.4925	12.6	-15.6	28.2	Vertical	40	27.4
131.8015	15.4	-20.4	35.8	Vertical	43.5	28.1
282.879	8.78	-14.3	23.08	Vertical	46	37.22
513.157	13.02	-9	22.02	Vertical	46	32.98
927.7835	18.94	-1.7	20.64	Vertical	46	27.06

For 802.11ac(VHT80)Channel No.:42

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
51.2915	17.12	-15.4	32.52	Vertical	40	22.88
53.862	12.9	-15.6	28.5	Vertical	40	27.1
131.171	15.21	-20.4	35.61	Vertical	43.5	28.29
199.6045	6.97	-16.6	23.57	Vertical	43.5	36.53
513.2055	13	-9	22	Vertical	46	33
921.624	18.85	-1.7	20.55	Vertical	46	27.15

For 802.11ax(HE80)Channel No.:42

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
46.102	18.68	-15.7	34.38	Vertical	40	21.32
53.9105	12.67	-15.6	28.27	Vertical	40	27.33
97.7545	14.29	-17.7	31.99	Vertical	43.5	29.21
199.362	7.05	-16.6	23.65	Vertical	43.5	36.45
520.432	13.27	-8.8	22.07	Vertical	46	32.73
922.8365	18.8	-1.7	20.5	Vertical	46	27.2

For 802.11aChannel No.:149



Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
45.6655	18.41	-15.8	34.21	Vertical	40	21.59
54.4925	12.47	-15.6	28.07	Vertical	40	27.53
131.8015	15.15	-20.4	35.55	Vertical	43.5	28.35
181.32	6.07	-18.7	24.77	Vertical	43.5	37.43
527.804	13.43	-8.7	22.13	Vertical	46	32.57
933.3125	18.79	-1.7	20.49	Vertical	46	27.21

For 802.11n(HT20)Channel No.:149

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
45.4715	18.5	-15.7	34.2	Vertical	40	21.5
54.832	12.31	-15.6	27.91	Vertical	40	27.69
131.656	15.31	-20.4	35.71	Vertical	43.5	28.19
306.8865	9.43	-13.9	23.33	Vertical	46	36.57
488.228	12.47	-9.4	21.87	Vertical	46	33.53
939.6175	18.66	-1.8	20.46	Vertical	46	27.34

For 802.11ac(VHT20)Channel No.:149

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
51.146	17.92	-15.4	33.32	Vertical	40	22.08
54.25	12.59	-15.6	28.19	Vertical	40	27.41
132.0925	15.09	-20.4	35.49	Vertical	43.5	28.41
184.1815	6.19	-18.4	24.59	Vertical	43.5	37.31
545.7005	13.33	-8.4	21.73	Vertical	46	32.67
933.943	18.71	-1.7	20.41	Vertical	46	27.29

For 802.11ax(HE20)Channel No.:149

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
46.1505	18.64	-15.7	34.34	Vertical	40	21.36



54.2015	11.77	-15.6	27.37	Vertical	40	28.23
132.1895	15.35	-20.4	35.75	Vertical	43.5	28.15
202.0295	6.9	-16.8	23.7	Vertical	43.5	36.6
549.532	13.28	-8.3	21.58	Vertical	46	32.72
915.028	18.72	-2	20.72	Vertical	46	27.28

For 802.11aChannel No.:157

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
45.4715	18.4	-15.7	34.1	Vertical	40	21.6
54.4925	11.78	-15.6	27.38	Vertical	40	28.22
130.977	15.05	-20.3	35.35	Vertical	43.5	28.45
307.9535	9.31	-13.9	23.21	Vertical	46	36.69
528.9195	13.3	-8.7	22	Vertical	46	32.7
949.6085	18.23	-2.1	20.33	Vertical	46	27.77

For 802.11n(HT20)Channel No.:157

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
46.102	18.1	-15.7	33.8	Vertical	40	21.9
54.5895	12.49	-15.6	28.09	Vertical	40	27.51
132.0925	15.35	-20.4	35.75	Vertical	43.5	28.15
194.9485	6.94	-16.8	23.74	Vertical	43.5	36.56
490.653	12.49	-9.3	21.79	Vertical	46	33.51
896.7435	18.1	-2.5	20.6	Vertical	46	27.9

For 802.11ac(VHT20)Channel No.:157

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
35.917	18.32	-18.3	36.62	Vertical	40	21.68
55.026	11.89	-15.6	27.49	Vertical	40	28.11
131.7045	15.29	-20.4	35.69	Vertical	43.5	28.21
182.0475	5.91	-18.7	24.61	Vertical	43.5	37.59
551.278	13.4	-8.2	21.6	Vertical	46	32.6
938.211	18.75	-1.8	20.55	Vertical	46	27.25



For 802.11ax(HE20)Channel No.:157

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
46.005	18.25	-15.8	34.05	Vertical	40	21.75
54.0075	12.83	-15.6	28.43	Vertical	40	27.17
130.686	14.74	-20.3	35.04	Vertical	43.5	28.76
292.6275	8.69	-14.2	22.89	Vertical	46	37.31
524.1665	13.14	-8.7	21.84	Vertical	46	32.86
919.102	18.87	-1.8	20.67	Vertical	46	27.13

For 802.11aChannel No.:165

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
45.6655	18.69	-15.8	34.49	Vertical	40	21.31
54.2985	12.01	-15.6	27.61	Vertical	40	27.99
131.4135	15.26	-20.4	35.66	Vertical	43.5	28.24
195.676	7.13	-16.6	23.73	Vertical	43.5	36.37
496.0365	12.61	-9.2	21.81	Vertical	46	33.39
890.293	18.1	-2.5	20.6	Vertical	46	27.9

For 802.11n(HT20)Channel No.:165

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
36.1595	18.55	-18.2	36.75	Vertical	40	21.45
55.2685	10.87	-15.7	26.57	Vertical	40	29.13
132.0925	15.07	-20.4	35.47	Vertical	43.5	28.43
298.6415	8.94	-14.1	23.04	Vertical	46	37.06
530.229	13.27	-8.7	21.97	Vertical	46	32.73
936.562	18.77	-1.8	20.57	Vertical	46	27.23

For 802.11ac(VHT20)Channel No.:165

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
50.8065	18.12	-15.4	33.52	Vertical	40	21.88
55.414	10.6	-15.7	26.3	Vertical	40	29.4



132.529	14.96	-20.4	35.36	Vertical	43.5	28.54
296.265	8.9	-14.1	23	Vertical	46	37.1
524.797	13.26	-8.7	21.96	Vertical	46	32.74
920.6055	18.89	-1.7	20.59	Vertical	46	27.11

For 802.11ax(HE20)Channel No.:165

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
45.326	18.19	-15.7	33.89	Vertical	40	21.81
53.862	11.93	-15.6	27.53	Vertical	40	28.07
133.2565	14.29	-20.4	34.69	Vertical	43.5	29.21
296.8955	8.92	-14.1	23.02	Vertical	46	37.08
542.3055	13.31	-8.6	21.91	Vertical	46	32.69
913.864	18.57	-2	20.57	Vertical	46	27.43

For 802.11n(HT40)Channel No.:151

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
46.0535	18.73	-15.8	34.53	Vertical	40	21.27
54.0075	12.58	-15.6	28.18	Vertical	40	27.42
130.8315	14.97	-20.3	35.27	Vertical	43.5	28.53
189.468	6.32	-17.7	24.02	Vertical	43.5	37.18
500.4015	12.43	-9.3	21.73	Vertical	46	33.57
918.5685	18.81	-1.8	20.61	Vertical	46	27.19

For 802.11ac(VHT40)Channel No.:151

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
45.326	18.25	-15.7	33.95	Vertical	40	21.75
54.4925	12.33	-15.6	27.93	Vertical	40	27.67
131.753	15.26	-20.4	35.66	Vertical	43.5	28.24
190.5835	6.38	-17.5	23.88	Vertical	43.5	37.12
516.067	12.96	-8.9	21.86	Vertical	46	33.04
936.5135	18.78	-1.8	20.58	Vertical	46	27.22

For 802.11ax(HE40)Channel No.:151



Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
45.7625	18.44	-15.8	34.24	Vertical	40	21.56
53.862	12.82	-15.6	28.42	Vertical	40	27.18
131.85	15.19	-20.4	35.59	Vertical	43.5	28.31
211.3415	6.02	-17.2	23.22	Vertical	43.5	37.48
511.023	12.9	-9.1	22	Vertical	46	33.1
920.8965	18.89	-1.7	20.59	Vertical	46	27.11

For 802.11n(HT40)Channel No.:159

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
45.5685	18.64	-15.8	34.44	Vertical	40	21.36
54.735	12.49	-15.6	28.09	Vertical	40	27.51
96.7845	15.19	-17.8	32.99	Vertical	43.5	28.31
185.0545	6.17	-18.3	24.47	Vertical	43.5	37.33
494.9695	12.69	-9.2	21.89	Vertical	46	33.31
955.1375	18.1	-2.2	20.3	Vertical	46	27.9

For 802.11ac(VHT40)Channel No.:159

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
45.3745	18.32	-15.7	34.02	Vertical	40	21.68
54.056	12.47	-15.6	28.07	Vertical	40	27.53
131.6075	15.23	-20.4	35.63	Vertical	43.5	28.27
196.549	7.29	-16.5	23.79	Vertical	43.5	36.21
548.368	13.35	-8.3	21.65	Vertical	46	32.65
945.2435	18.37	-2.1	20.47	Vertical	46	27.63

For 802.11ax(HE40)Channel No.:159

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
45.617	18.66	-15.8	34.46	Vertical	40	21.34
54.0075	11.76	-15.6	27.36	Vertical	40	28.24
132.238	15.31	-20.4	35.71	Vertical	43.5	28.19
192.3295	6.3	-17.3	23.6	Vertical	43.5	37.2



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546.331	13.31	-8.4	21.71	Vertical	46	32.69
891.069	18.15	-2.5	20.65	Vertical	46	27.85

For 802.11ac(VHT80)Channel No.:155

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
45.423	18.48	-15.7	34.18	Vertical	40	21.52
54.2985	11.74	-15.6	27.34	Vertical	40	28.26
132.4805	15.31	-20.4	35.71	Vertical	43.5	28.19
304.316	9.14	-14	23.14	Vertical	46	36.86
554.7215	13.19	-8.1	21.29	Vertical	46	32.81
901.2055	18.06	-2.5	20.56	Vertical	46	27.94

For 802.11ax(HE80)Channel No.:155

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
30.388	17.09	-18.9	35.99	Vertical	40	22.91
54.735	12.41	-15.6	28.01	Vertical	40	27.59
132.044	15.04	-20.4	35.44	Vertical	43.5	28.46
203.339	6.73	-17	23.73	Vertical	43.5	36.77
501.517	12.56	-9.3	21.86	Vertical	46	33.44
898.15	18.12	-2.5	20.62	Vertical	46	27.88

**Partial RU (Tone26)**

For 802.11ax(HE20)Channel No.:36

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
46.199	18.01	-15.7	33.71	Vertical	40	21.99
54.0075	12.61	-15.6	28.21	Vertical	40	27.39
131.8015	15.22	-20.4	35.62	Vertical	43.5	28.28
209.2075	6.15	-17.2	23.35	Vertical	43.5	37.35
493.4175	12.61	-9.2	21.81	Vertical	46	33.39
888.159	18.18	-2.4	20.58	Vertical	46	27.82

For 802.11ax(HE20)Channel No.:44

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
35.8685	17.64	-18.3	35.94	Vertical	40	22.36
54.153	12.65	-15.6	28.25	Vertical	40	27.35
132.626	14.81	-20.4	35.21	Vertical	43.5	28.69
278.514	8.48	-14.5	22.98	Vertical	46	37.52
506.4155	12.6	-9.2	21.8	Vertical	46	33.4
895.5795	18.12	-2.5	20.62	Vertical	46	27.88

For 802.11ax(HE20)Channel No.:48

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
51.1945	17.48	-15.4	32.88	Vertical	40	22.52
55.2685	10.99	-15.7	26.69	Vertical	40	29.01
132.626	14.76	-20.4	35.16	Vertical	43.5	28.74
286.759	8.71	-14.3	23.01	Vertical	46	37.29
523.5845	13.12	-8.7	21.82	Vertical	46	32.88
866.6735	18.03	-2.4	20.43	Vertical	46	27.97

For 802.11ax(HE40)Channel No.:38

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
45.4715	18.5	-15.7	34.2	Vertical	40	21.5



54.541	12.6	-15.6	28.2	Vertical	40	27.4
132.141	14.94	-20.4	35.34	Vertical	43.5	28.56
199.8955	6.91	-16.6	23.51	Vertical	43.5	36.59
527.901	13.36	-8.7	22.06	Vertical	46	32.64
913.8155	18.53	-2	20.53	Vertical	46	27.47

For 802.11ax(HE40)Channel No.:46

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
35.7715	17.56	-18.4	35.96	Vertical	40	22.44
53.862	12.78	-15.6	28.38	Vertical	40	27.22
131.5105	15.17	-20.4	35.57	Vertical	43.5	28.33
203.7755	6.67	-17	23.67	Vertical	43.5	36.83
508.501	12.73	-9.1	21.83	Vertical	46	33.27
928.802	18.86	-1.6	20.46	Vertical	46	27.14

For 802.11ax(HE80)Channel No.:42

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
46.005	18.56	-15.8	34.36	Vertical	40	21.44
54.929	11.97	-15.6	27.57	Vertical	40	28.03
131.268	15.25	-20.4	35.65	Vertical	43.5	28.25
181.1745	6.08	-18.7	24.78	Vertical	43.5	37.42
548.6105	13.33	-8.3	21.63	Vertical	46	32.67
864.976	18.07	-2.4	20.47	Vertical	46	27.93

For 802.11ax(HE20)Channel No.:149

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
31.843	20.37	-19.2	39.57	Vertical	40	19.63
84.0775	19.7	-21.6	41.3	Vertical	40	20.3
100.81	15.82	-17.1	32.92	Vertical	43.5	27.68
188.013	15.76	-17.9	33.66	Vertical	43.5	27.74



502.7295	12.43	-9.2	21.63	Vertical	46	33.57
929.481	18.49	-1.6	20.09	Vertical	46	27.51

For 802.11ax(HE20)Channel No.:157

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
32.134	20.6	-19.2	39.8	Vertical	40	19.4
85.3385	19.85	-21.2	41.05	Vertical	40	20.15
98.482	15.65	-17.5	33.15	Vertical	43.5	27.85
186.267	14.11	-18.2	32.31	Vertical	43.5	29.39
524.797	12.98	-8.7	21.68	Vertical	46	33.02
870.5535	17.74	-2.4	20.14	Vertical	46	28.26

For 802.11ax(HE20)Channel No.:165

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
36.5475	19.34	-18.1	37.44	Vertical	40	20.66
87.23	20.16	-20.5	40.66	Vertical	40	19.84
114.972	13.36	-18.3	31.66	Vertical	43.5	30.14
208.3345	9.04	-17.2	26.24	Vertical	43.5	34.46
503.748	12.14	-9.2	21.34	Vertical	46	33.86
907.171	17.56	-2.3	19.86	Vertical	46	28.44

For 802.11ax(HE40)Channel No.:151

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
36.3535	18.49	-18.1	36.59	Vertical	40	21.51
85.387	18.29	-21.2	39.49	Vertical	40	21.71
105.4175	11.22	-17.1	28.32	Vertical	43.5	32.28
188.0615	13.1	-17.9	31	Vertical	43.5	30.4
520.044	11.91	-8.8	20.71	Vertical	46	34.09
910.469	16.88	-2.2	19.08	Vertical	46	29.12

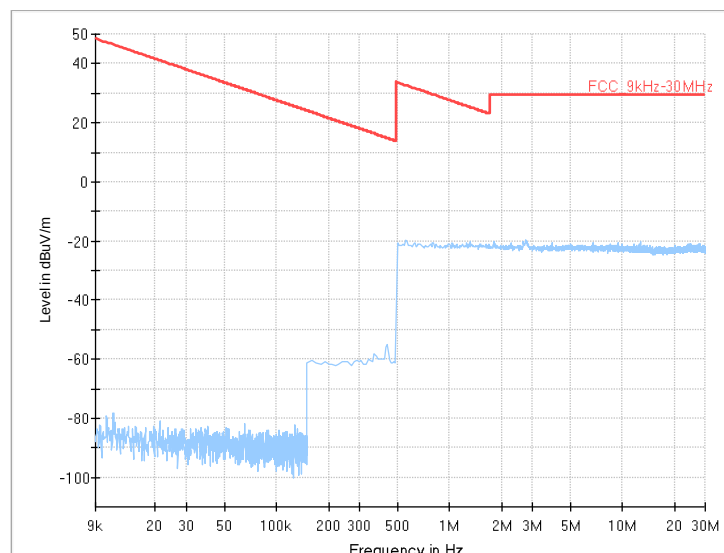


For 802.11ax(HE40)Channel No.:159

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
32.0855	20.06	-19.2	39.26	Vertical	40	19.94
87.327	19.89	-20.5	40.39	Vertical	40	20.11
99.0155	14.44	-17.4	31.84	Vertical	43.5	29.06
194.512	14.55	-16.9	31.45	Vertical	43.5	28.95
536.5825	12.66	-8.6	21.26	Vertical	46	33.34
927.1045	18.13	-1.7	19.83	Vertical	46	27.87

For 802.11ax(HE80)Channel No.:155

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
36.111	19.92	-18.2	38.12	Vertical	40	20.08
87.8605	20.38	-20.3	40.68	Vertical	40	19.62
97.124	14.58	-17.7	32.28	Vertical	43.5	28.92
188.692	15.48	-17.9	33.38	Vertical	43.5	28.02
514.903	12.72	-8.9	21.62	Vertical	46	33.28
897.568	17.84	-2.5	20.34	Vertical	46	28.16



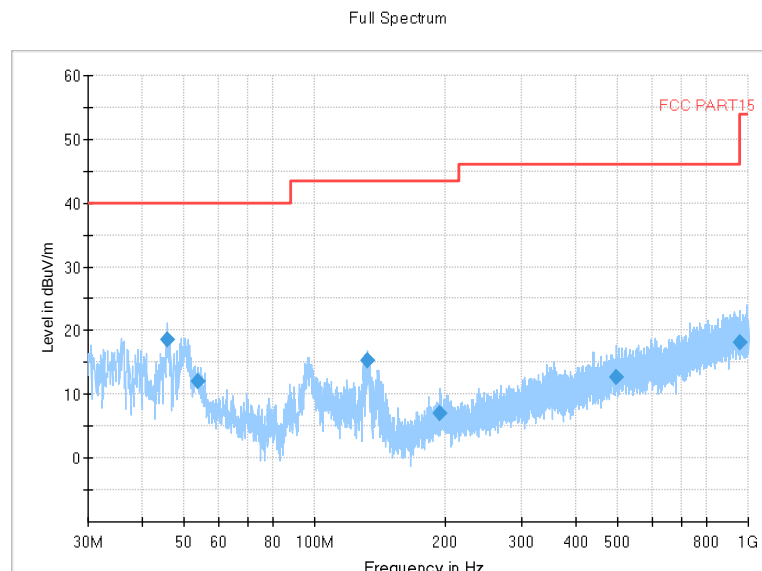
Frequency Range: 9kHz -30MHz

Detector: QP mode

Note: The relevant tests have been performed in order to verify in which mode would have the worst features, the result show above is the worst case.

Carrier frequency (MHz): 5180

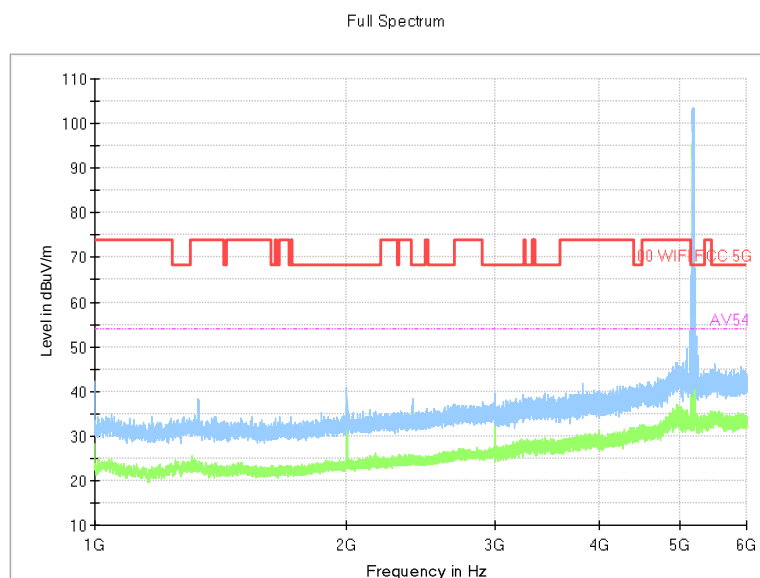
Channel No.:36



Frequency Range: 30MHz -1GHz

Detector: QP mode

Modulation type: 802.11a

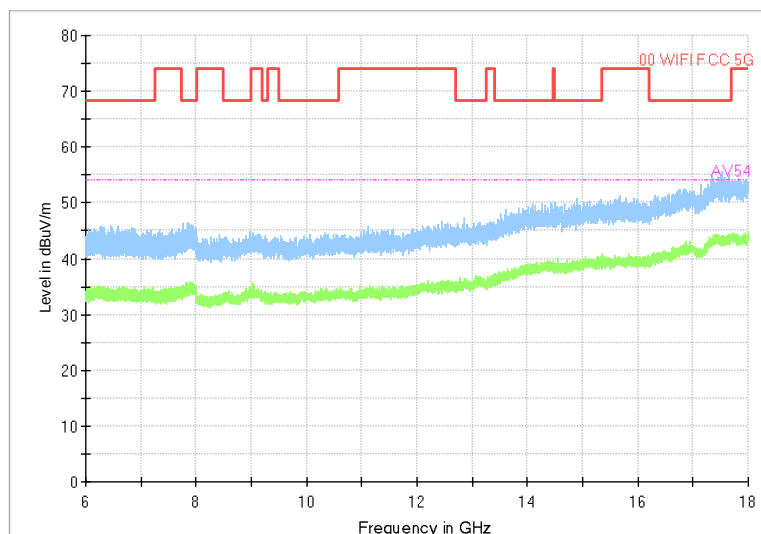


Frequency Range: 1GHz -6GHz

Detector: Av mode and PK mode

Modulation type: 802.11a

Full Spectrum

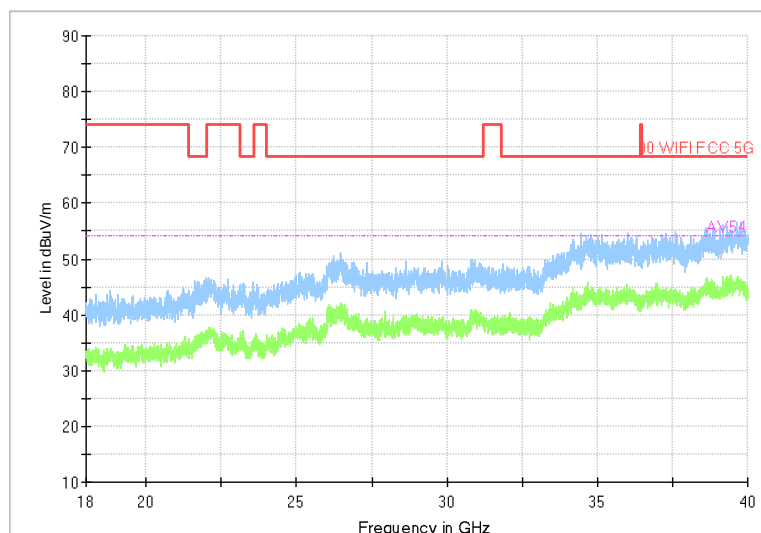


Frequency Range: 6GHz -18GHz

Detector: Av mode and PK mode

Modulation type: 802.11a

Full Spectrum

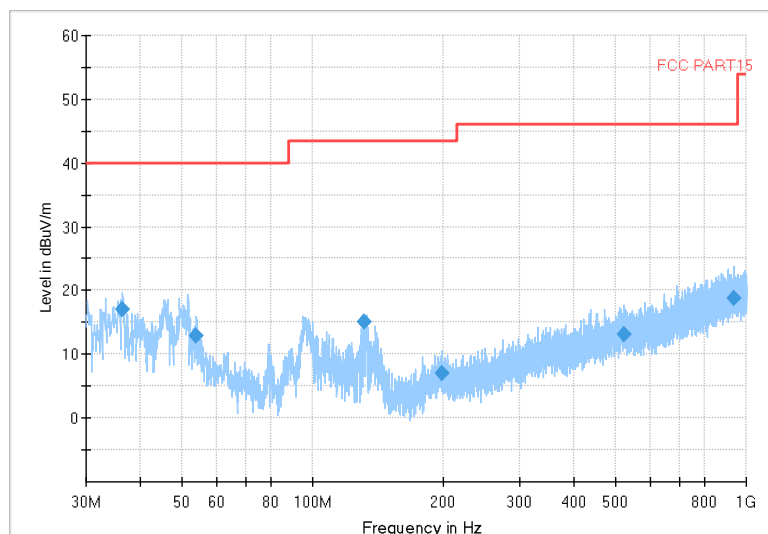


Frequency Range: 18GHz -40GHz

Detector: Av mode and PK mode

Modulation type: 802.11a

Full Spectrum

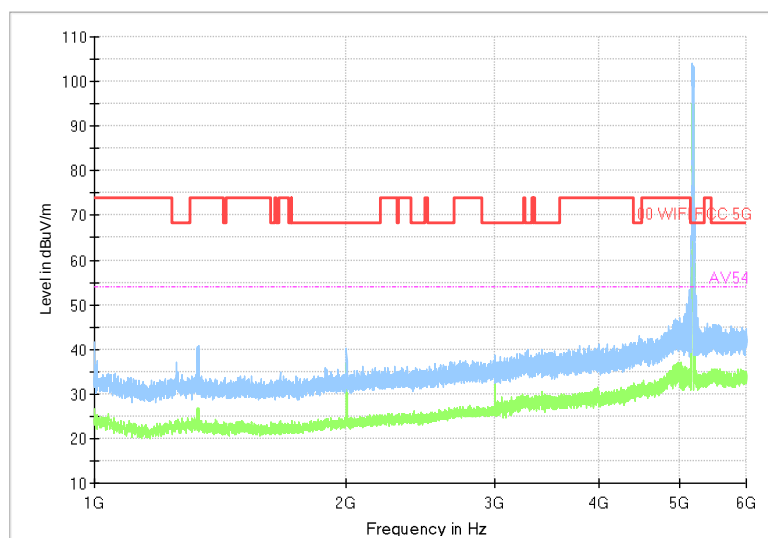


Frequency Range: 30MHz -1GHz

Detector: QP mode

Modulation type: 802.11n(HT20)

Full Spectrum

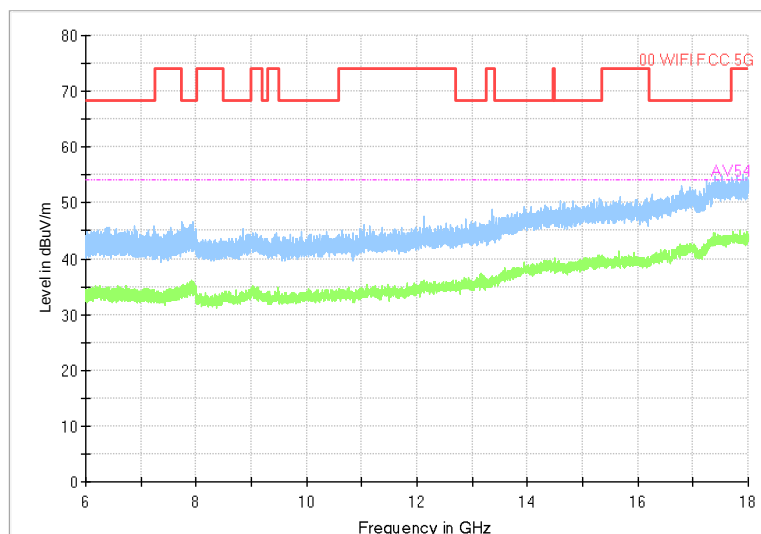


Frequency Range: 1GHz -6GHz

Detector: Av mode and PK mode

Modulation type: 802.11n(HT20)

Full Spectrum

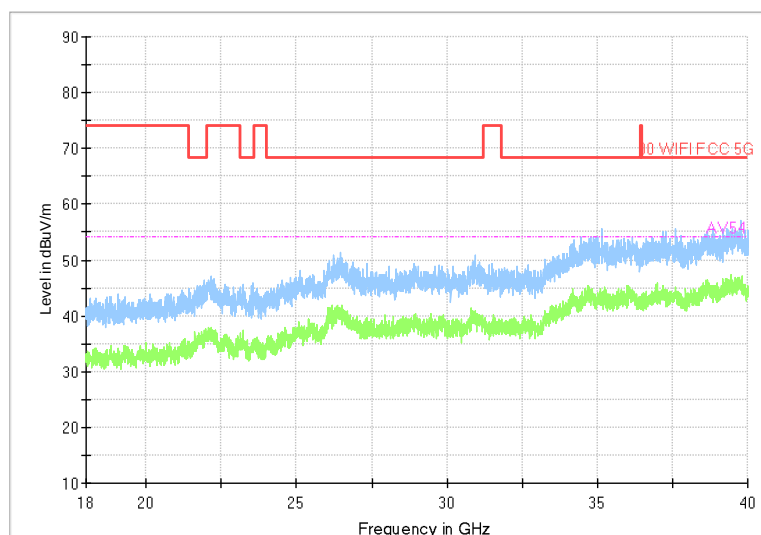


Frequency Range: 6GHz -18GHz

Detector: Av mode and PK mode

Modulation type: 802.11n(HT20)

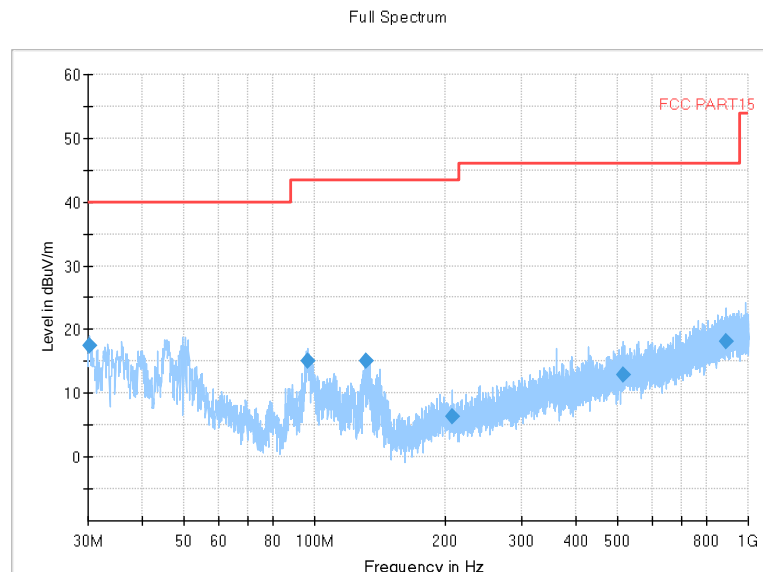
Full Spectrum



Frequency Range: 18GHz -40GHz

Detector: Av mode and PK mode

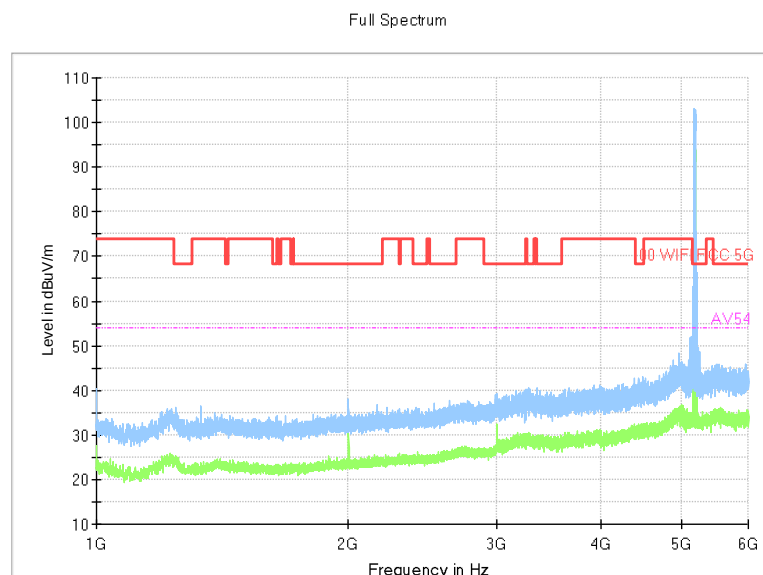
Modulation type: 802.11n(HT20)



Frequency Range: 30MHz -1GHz

Detector: QP mode

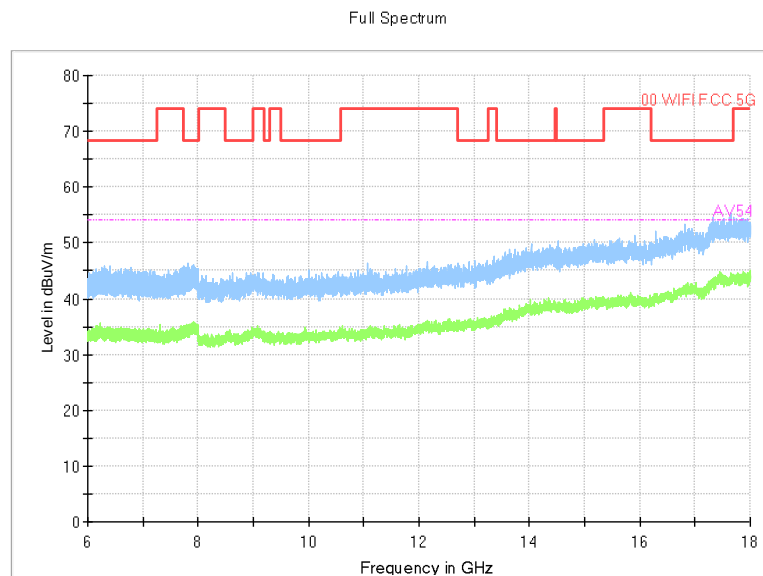
Test Mode: 802.11ac(VHT20)



Frequency Range: 1GHz -6GHz

Detector: Av mode and PK mode

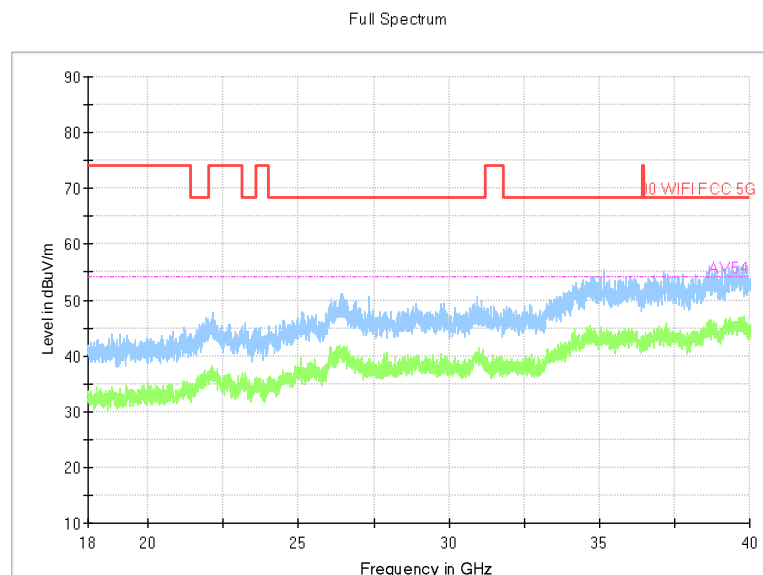
Test Mode: 802.11ac(VHT20)



Frequency Range: 6GHz -18GHz

Detector: Av mode and PK mode

Test Mode: 802.11ac(VHT20)



Frequency Range: 18GHz -40GHz

Detector: Av mode and PK mode

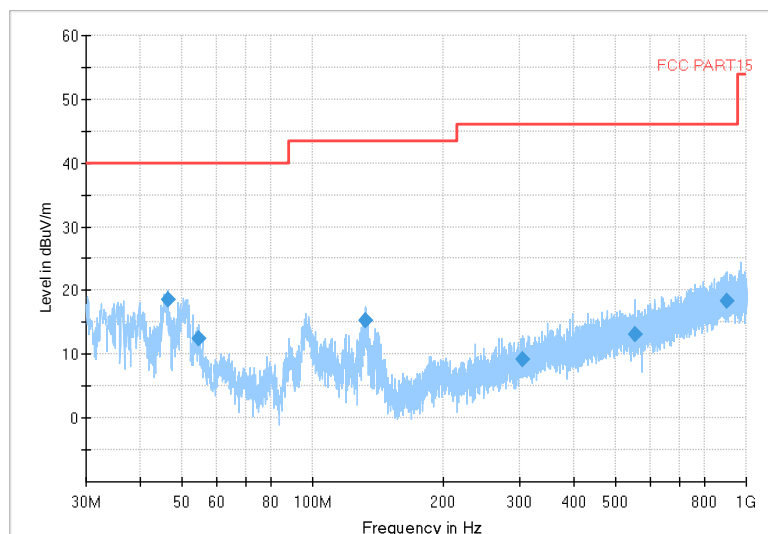
Test Mode: 802.11ac(VHT20)



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Test Report No.: PSU-NQN2502170213RF010

Full Spectrum

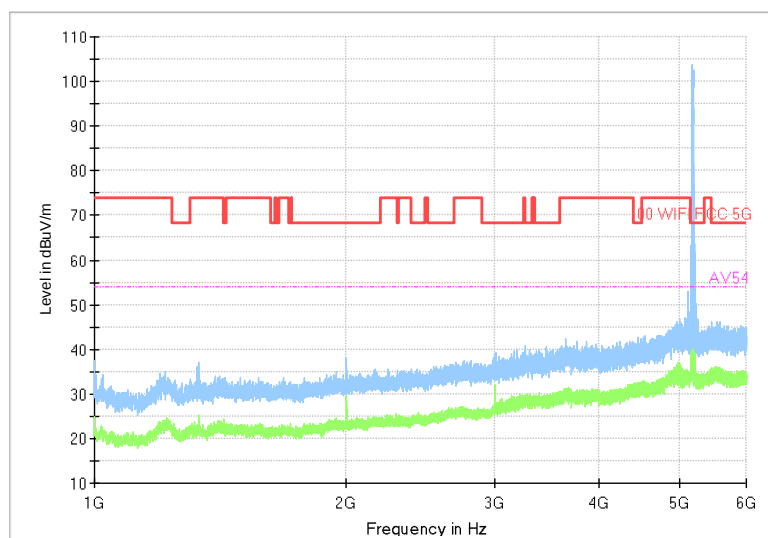


Frequency Range: 30MHz -1GHz

Detector: QP mode

Test Mode: 802.11ax(HE20)

Full Spectrum

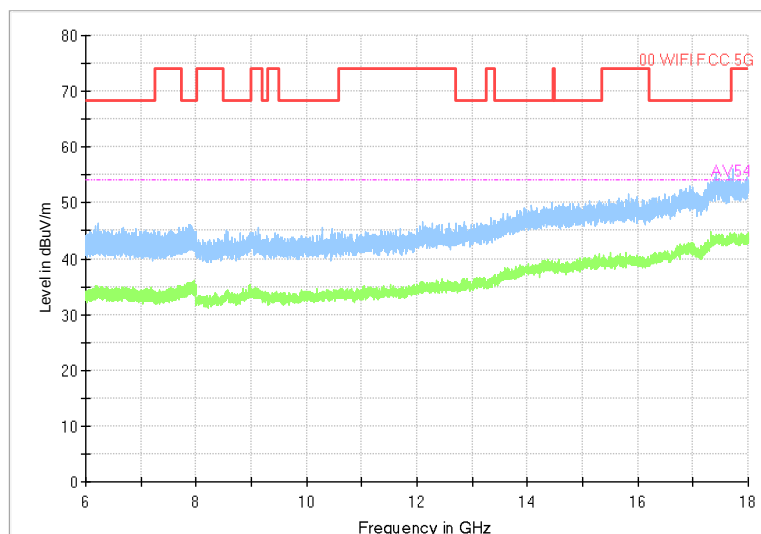


Frequency Range: 1GHz -6GHz

Detector: Av mode and PK mode

Test Mode: 802.11ax(HE20)

Full Spectrum

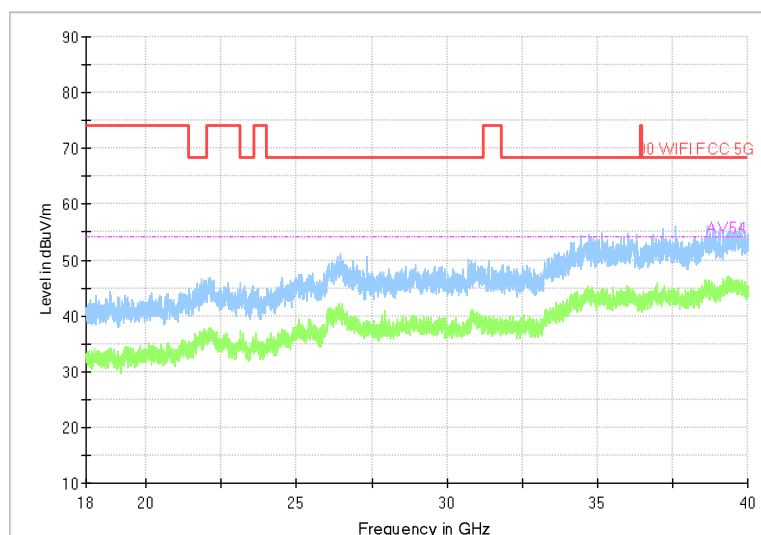


Frequency Range: 6GHz -18GHz

Detector: Av mode and PK mode

Test Mode: 802.11ax(HE20)

Full Spectrum



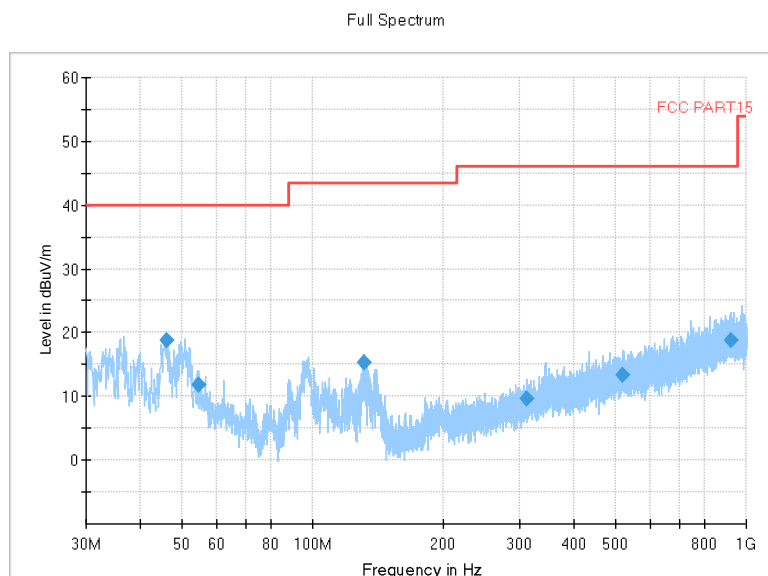
Frequency Range: 18GHz -40GHz

Detector: Av mode and PK mode

Test Mode: 802.11ax(HE20)

Carrier frequency (MHz): 5220

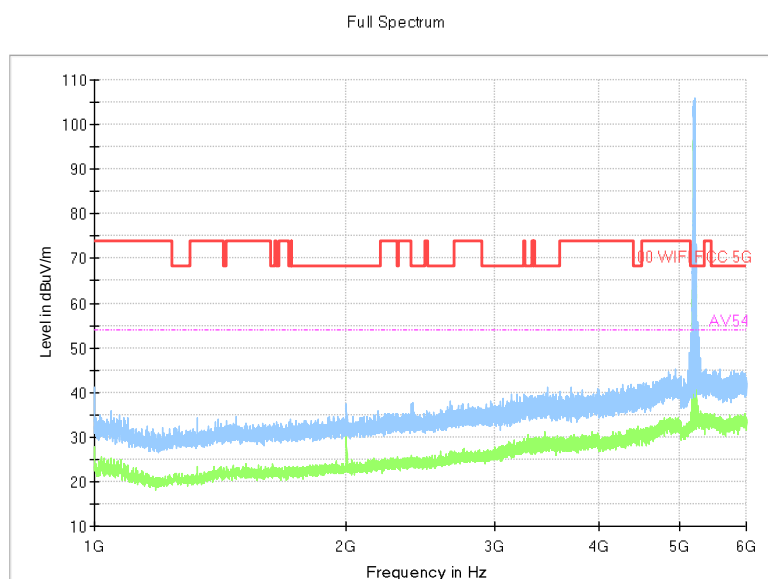
Channel No.44



Frequency Range: 30MHz -1GHz

Detector: QP mode

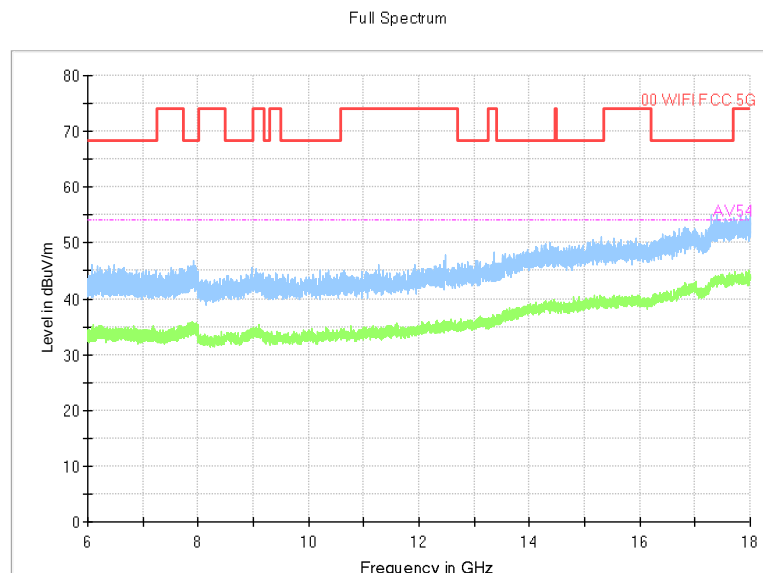
Modulation type: 802.11a



Frequency Range: 1GHz -6GHz

Detector: Av mode and PK mode

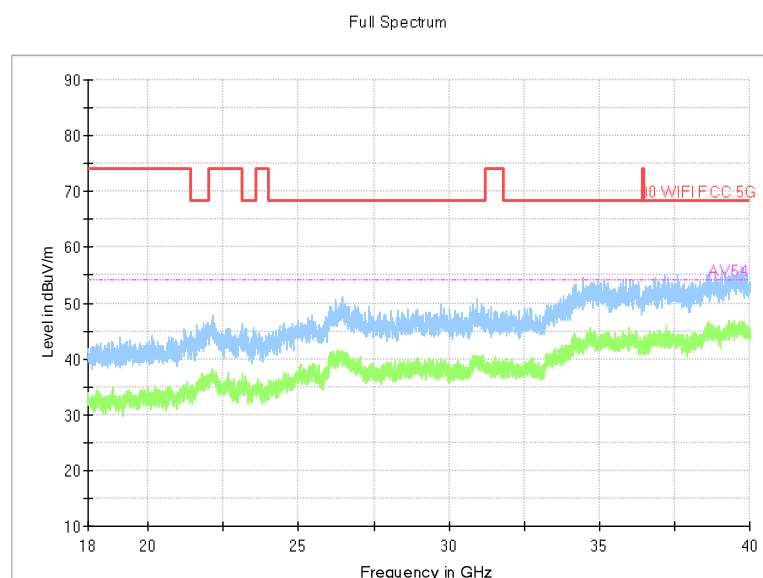
Modulation type: 802.11a



Frequency Range: 6GHz -18GHz

Detector: Av mode and PK mode

Modulation type: 802.11a

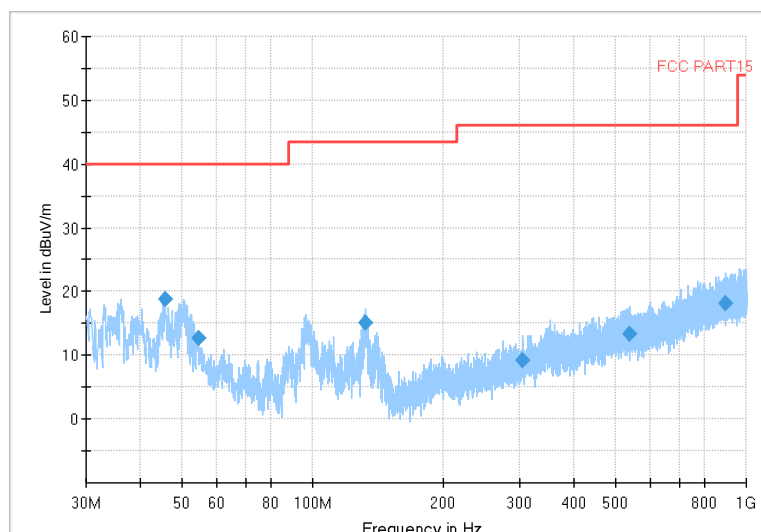


Frequency Range: 18GHz -40GHz

Detector: Av mode and PK mode

Modulation type: 802.11a

Full Spectrum

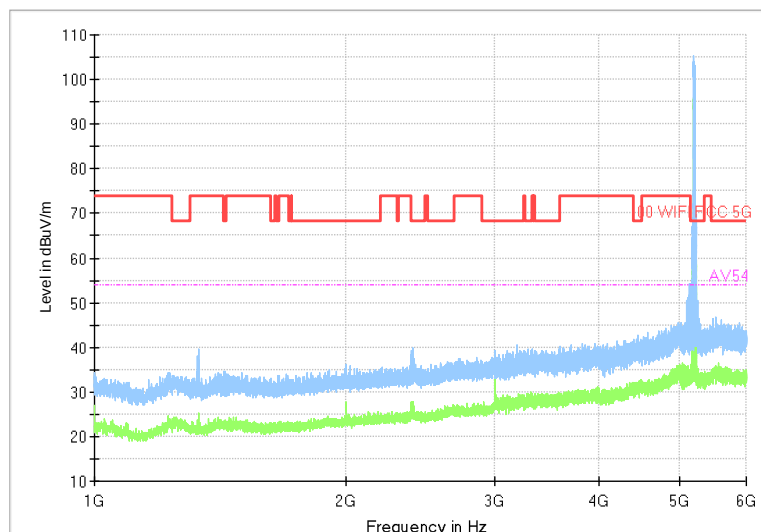


Frequency Range: 30MHz -1GHz

Detector: QP mode

Modulation type: 802.11n(HT20)

Full Spectrum

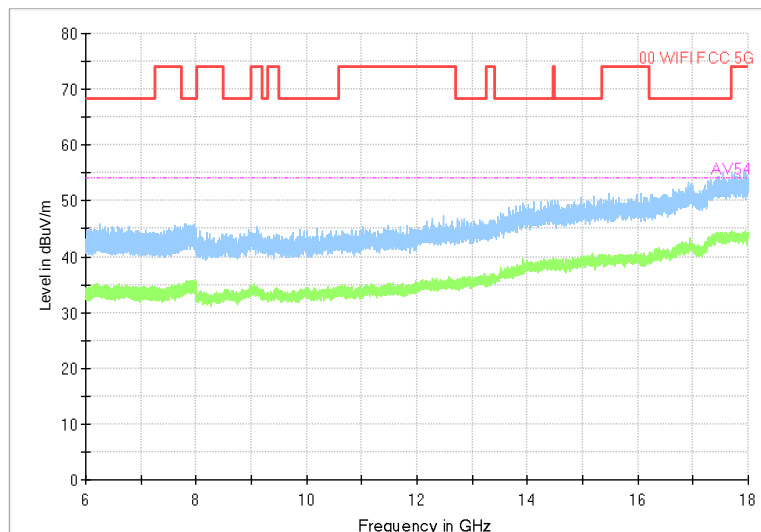


Frequency Range: 1GHz -6GHz

Detector: Av mode and PK mode

Modulation type: 802.11n(HT20)

Full Spectrum

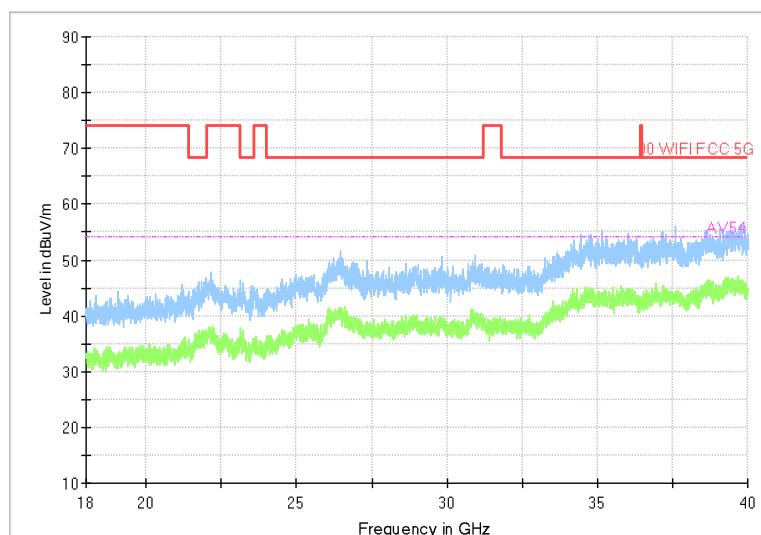


Frequency Range: 6GHz -18GHz

Detector: Av mode and PK mode

Modulation type: 802.11n(HT20)

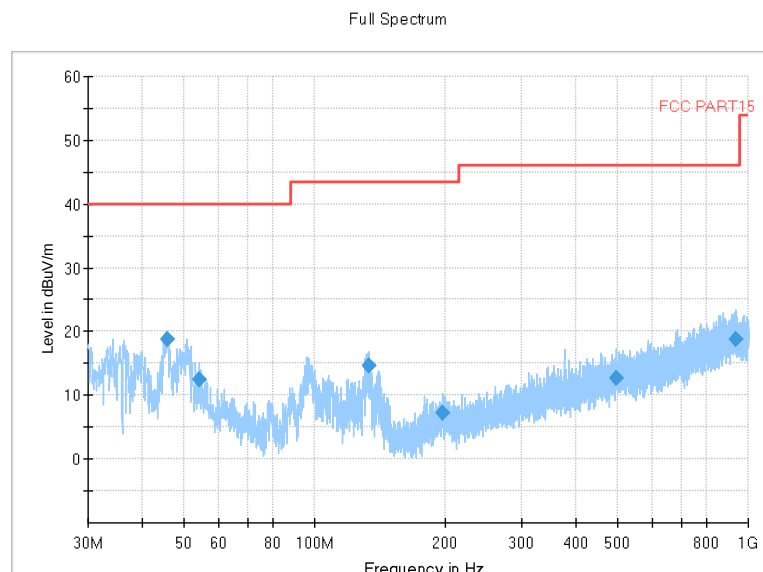
Full Spectrum



Frequency Range: 18GHz -40GHz

Detector: Av mode and PK mode

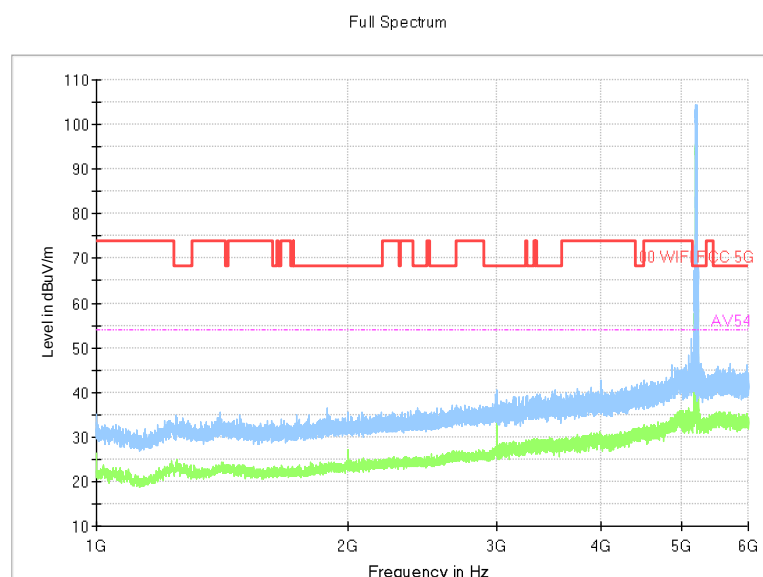
Modulation type: 802.11n(HT20)



Frequency Range: 30MHz -1GHz

Detector: QP mode

Test Mode: 802.11ac(VHT20)

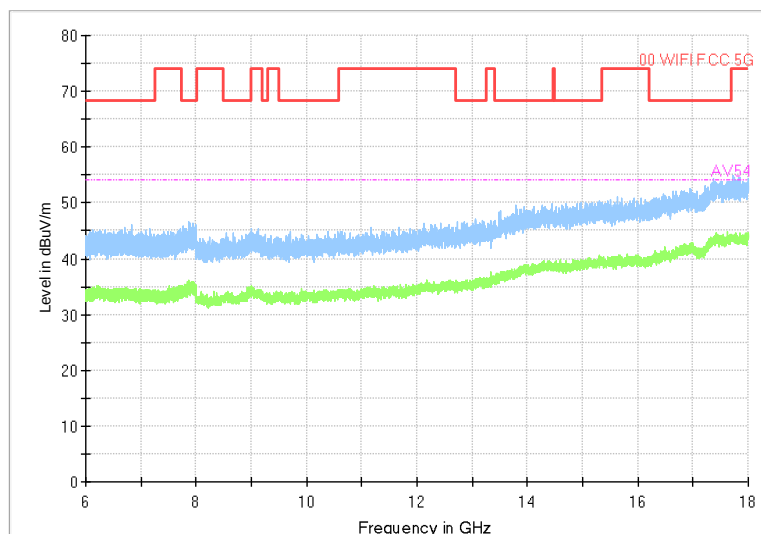


Frequency Range: 1GHz -6GHz

Detector: Av mode and PK mode

Test Mode: 802.11ac(VHT20)

Full Spectrum

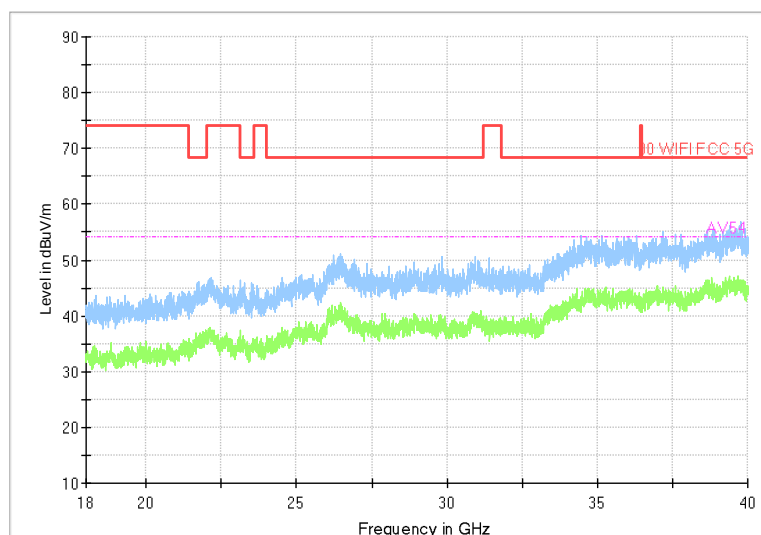


Frequency Range: 6GHz -18GHz

Detector: Av mode and PK mode

Test Mode: 802.11ac(VHT20)

Full Spectrum

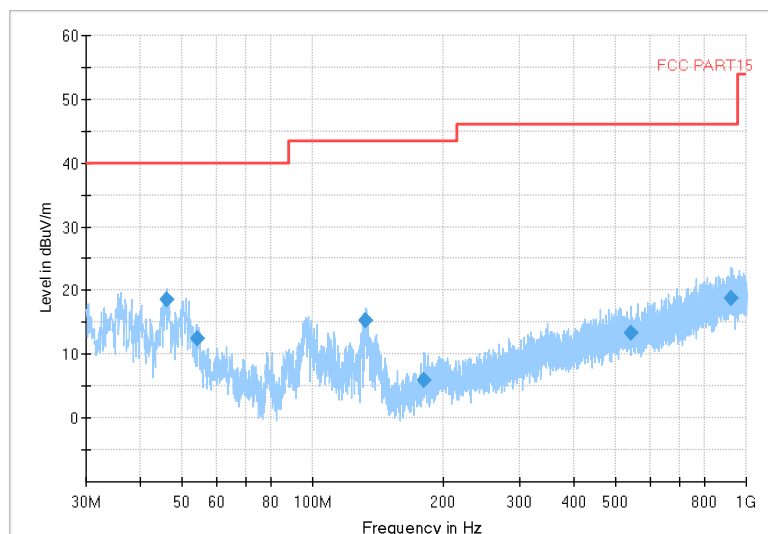


Frequency Range: 18GHz -40GHz

Detector: Av mode and PK mode

Test Mode: 802.11ac(VHT20)

Full Spectrum

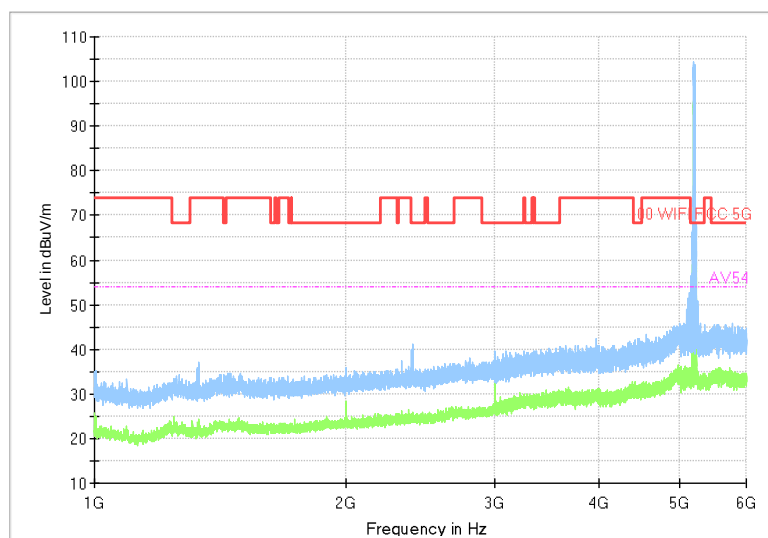


Frequency Range: 30MHz -1GHz

Detector: QP mode

Test Mode: 802.11ax(HE20)

Full Spectrum

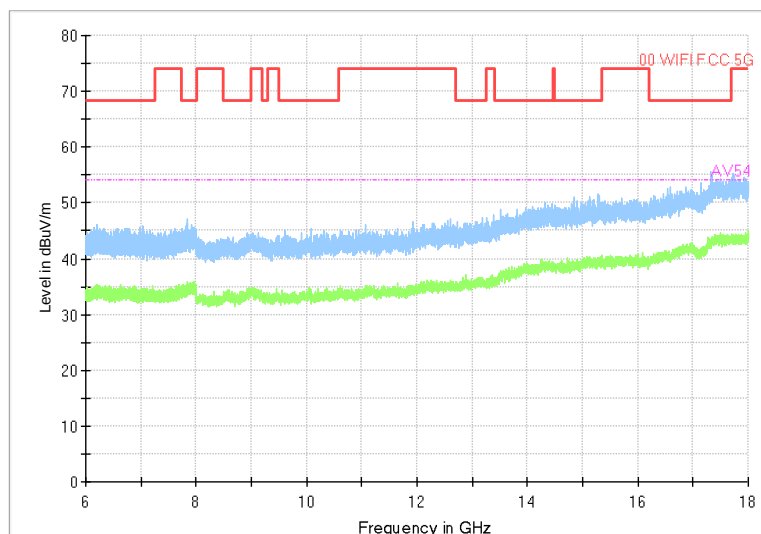


Frequency Range: 1GHz -6GHz

Detector: Av mode and PK mode

Test Mode: 802.11ax(HE20)

Full Spectrum

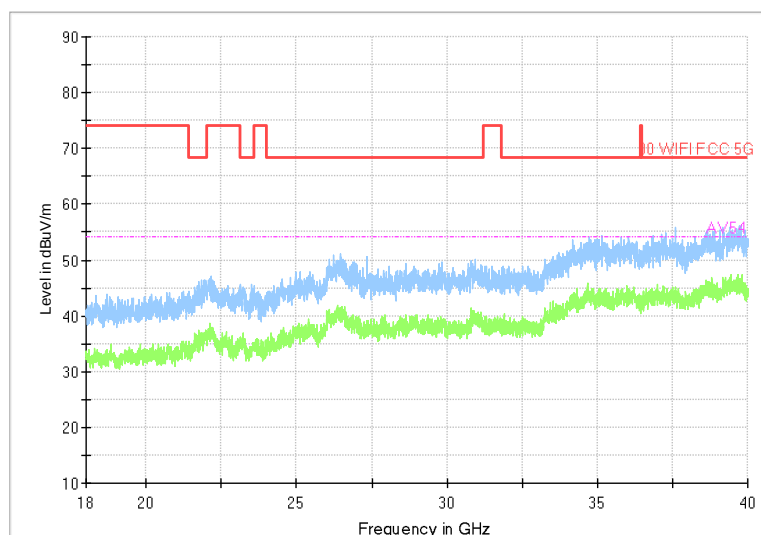


Frequency Range: 6GHz -18GHz

Detector: Av mode and PK mode

Test Mode: 802.11ax(HE20)

Full Spectrum



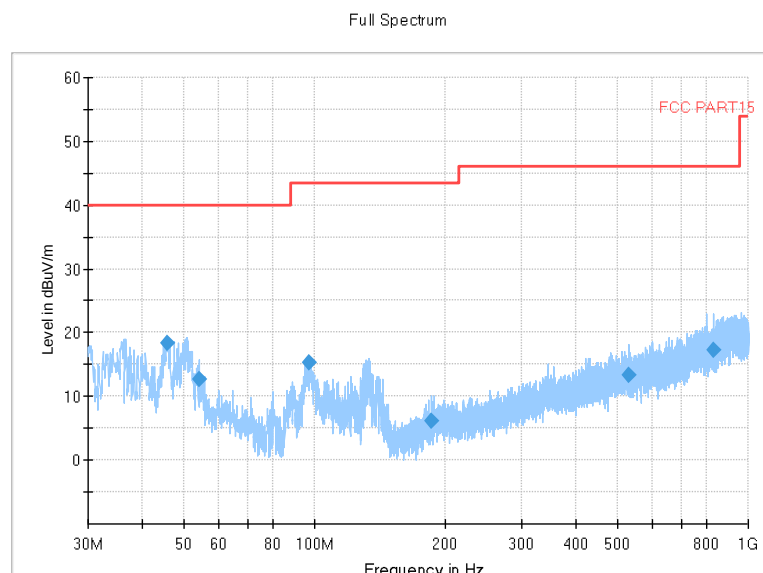
Frequency Range: 18GHz -40GHz

Detector: Av mode and PK mode

Test Mode: 802.11ax(HE20)

Carrier frequency (MHz): 5240

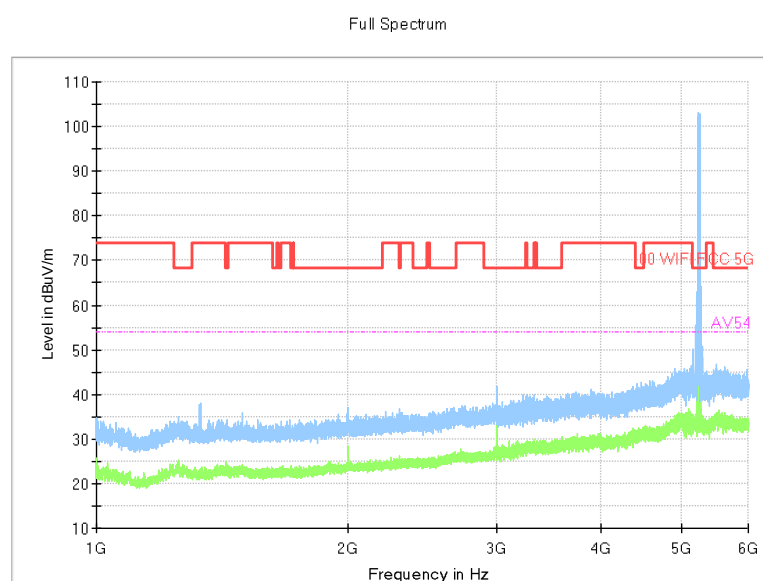
Channel No.:48



Frequency Range: 30MHz -1GHz

Detector: QP mode

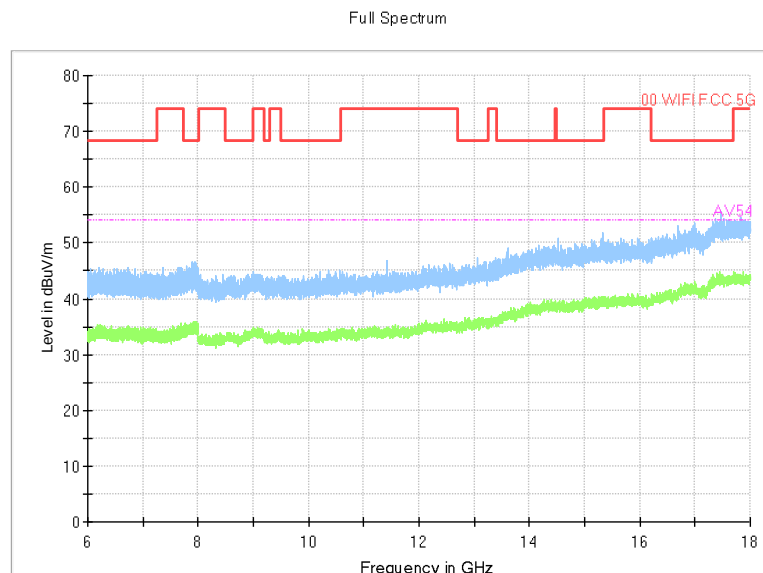
Modulation type: 802.11a



Frequency Range: 1GHz -6GHz

Detector: Av mode and PK mode

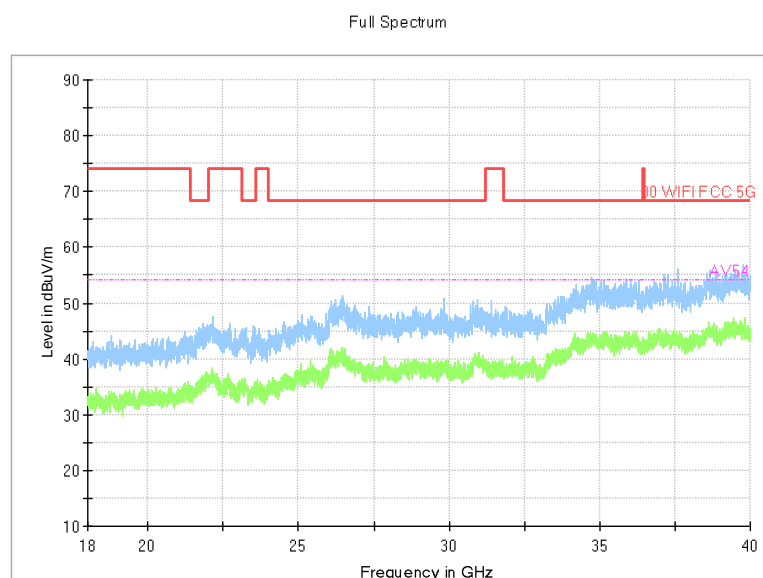
Modulation type: 802.11a



Frequency Range: 6GHz -18GHz

Detector: Av mode and PK mode

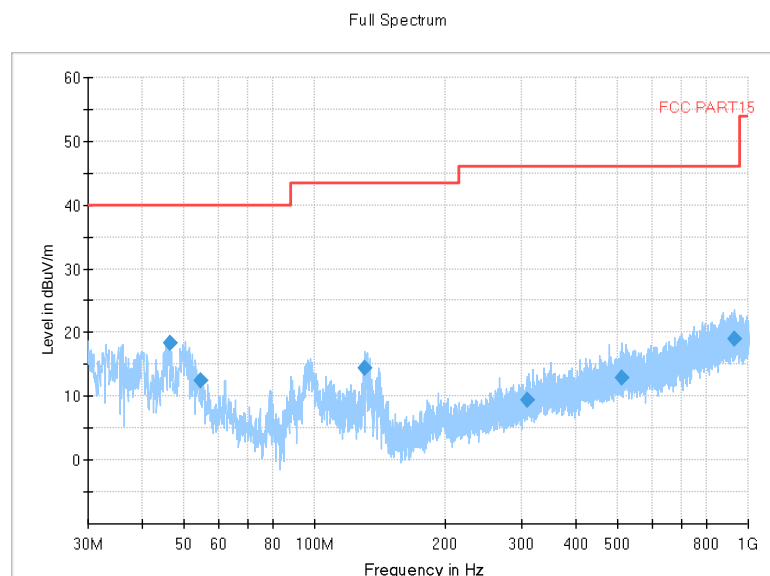
Modulation type: 802.11a



Frequency Range: 18GHz -40GHz

Detector: Av mode and PK mode

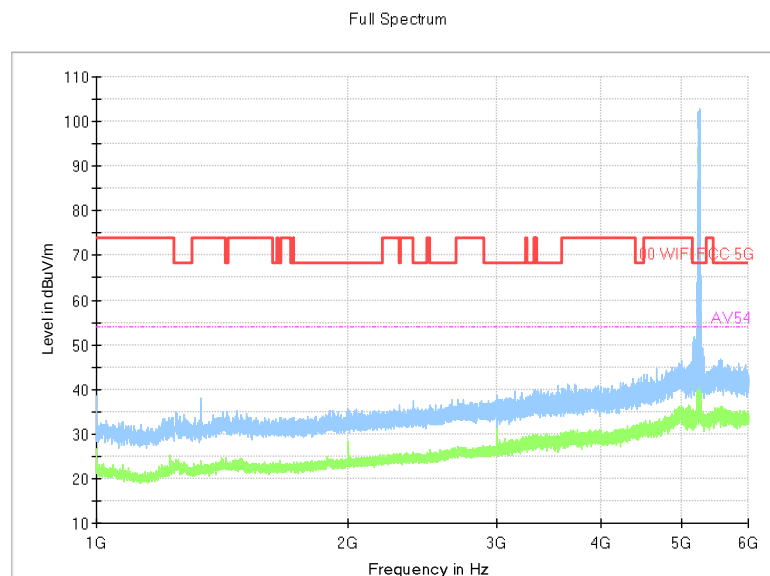
Modulation type: 802.11a



Frequency Range: 30MHz -1GHz

Detector: QP mode

Modulation type: 802.11n(HT20)

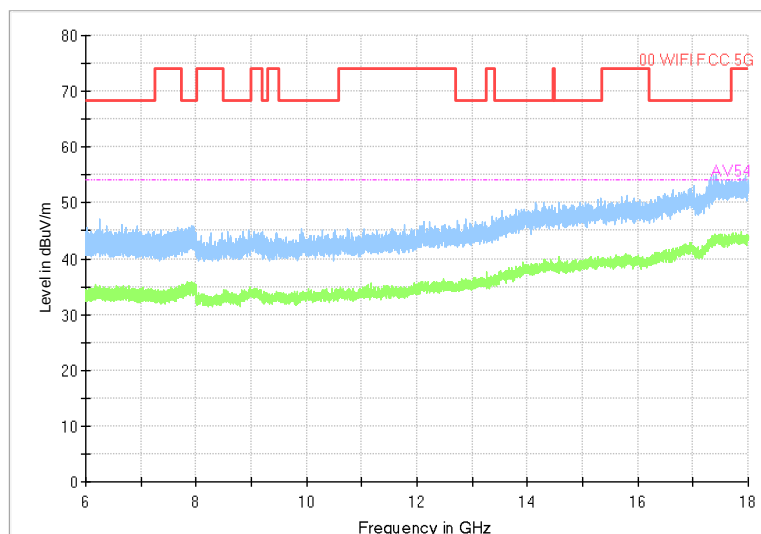


Frequency Range: 1GHz -6GHz

Detector: Av mode and PK mode

Modulation type: 802.11n(HT20)

Full Spectrum

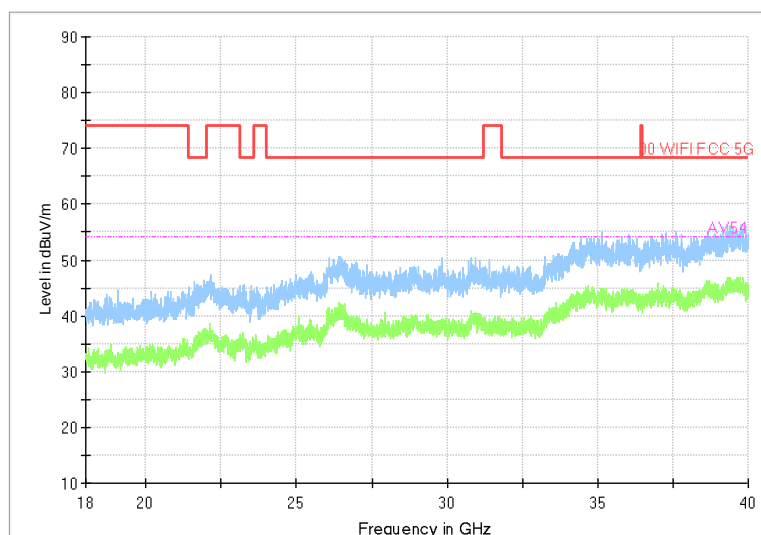


Frequency Range: 6GHz -18GHz

Detector: Av mode and PK mode

Modulation type: 802.11n(HT20)

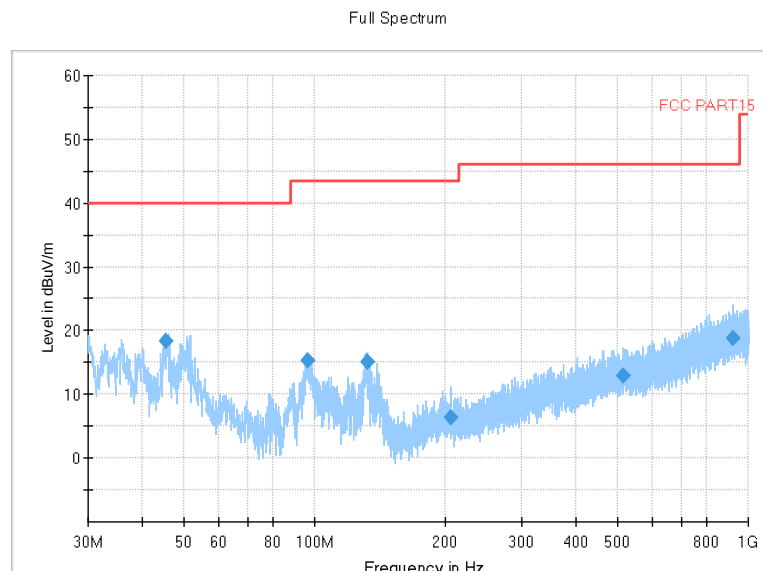
Full Spectrum



Frequency Range: 18GHz -40GHz

Detector: Av mode and PK mode

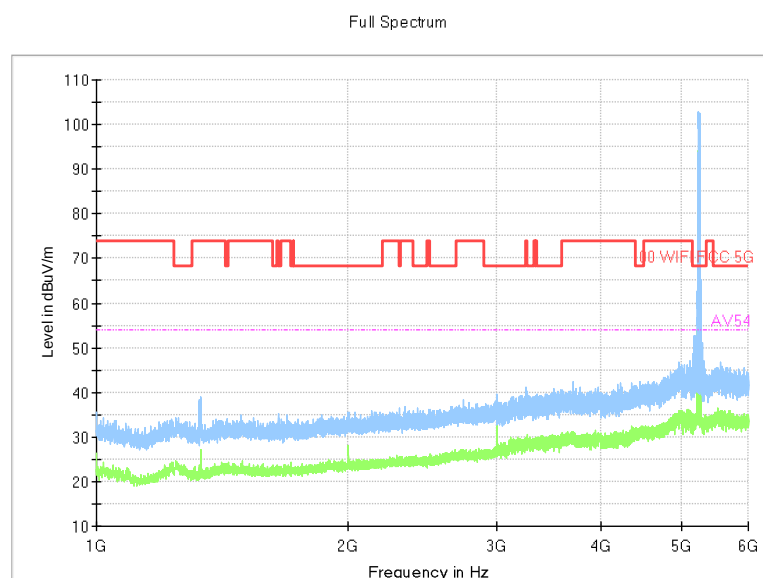
Modulation type: 802.11n(HT20)



Frequency Range: 30MHz -1GHz

Detector: QP mode

Test Mode: 802.11ac(VHT20)



Frequency Range: 1GHz -6GHz

Detector: Av mode and PK mode

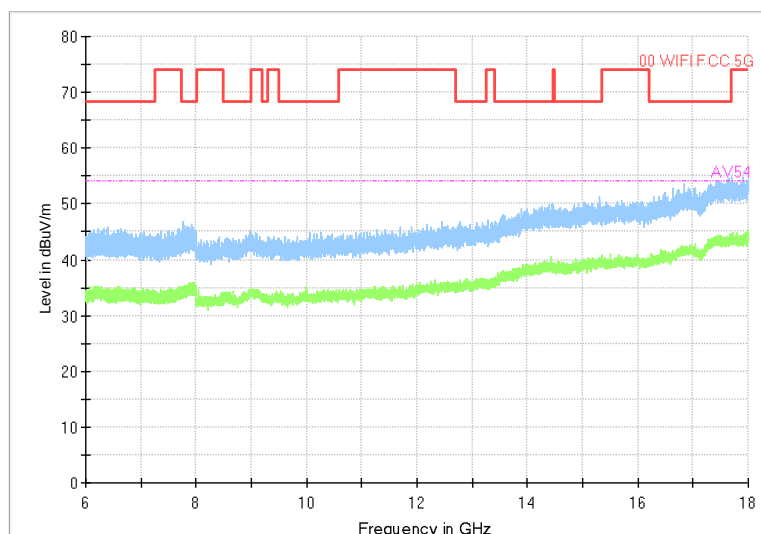
Test Mode: 802.11ac(VHT20)



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Test Report No.: PSU-NQN2502170213RF010

Full Spectrum

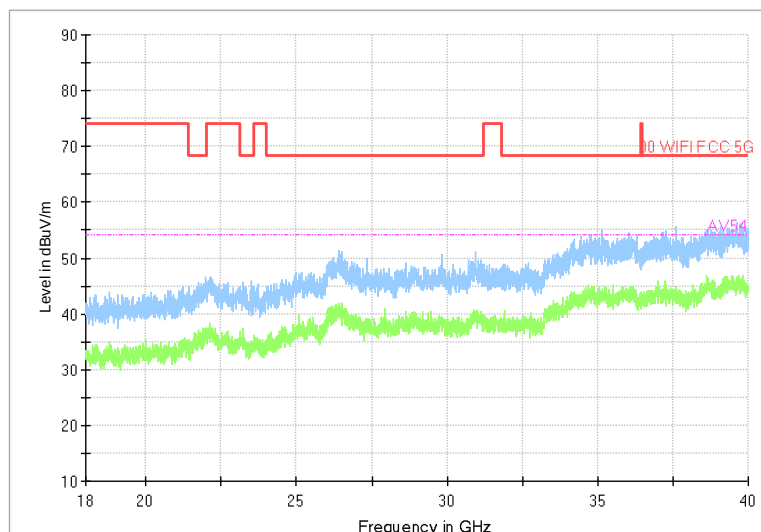


Frequency Range: 6GHz -18GHz

Detector: Av mode and PK mode

Test Mode: 802.11ac(VHT20)

Full Spectrum

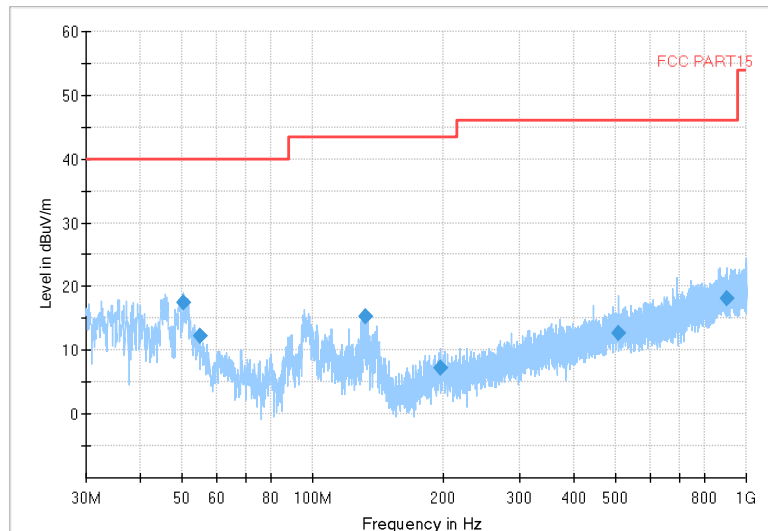


Frequency Range: 18GHz -40GHz

Detector: Av mode and PK mode

Test Mode: 802.11ac(VHT20)

Full Spectrum

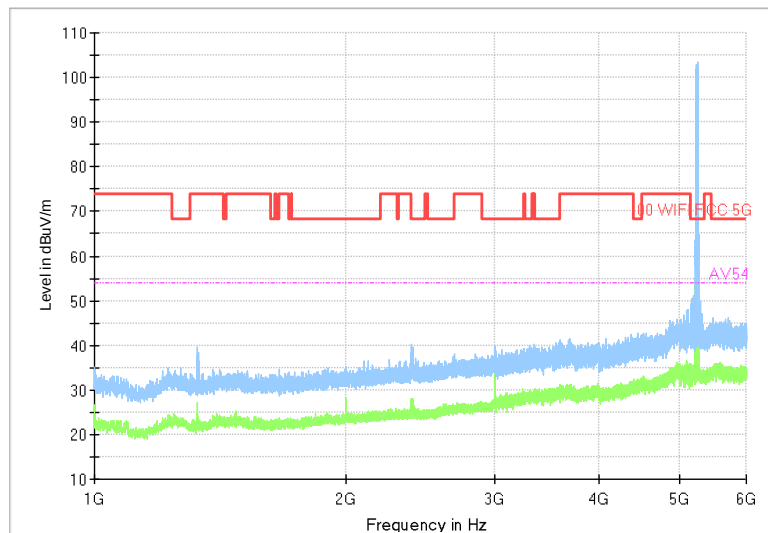


Frequency Range: 30MHz -1GHz

Detector: QP mode

Test Mode: 802.11ax(HE20)

Full Spectrum

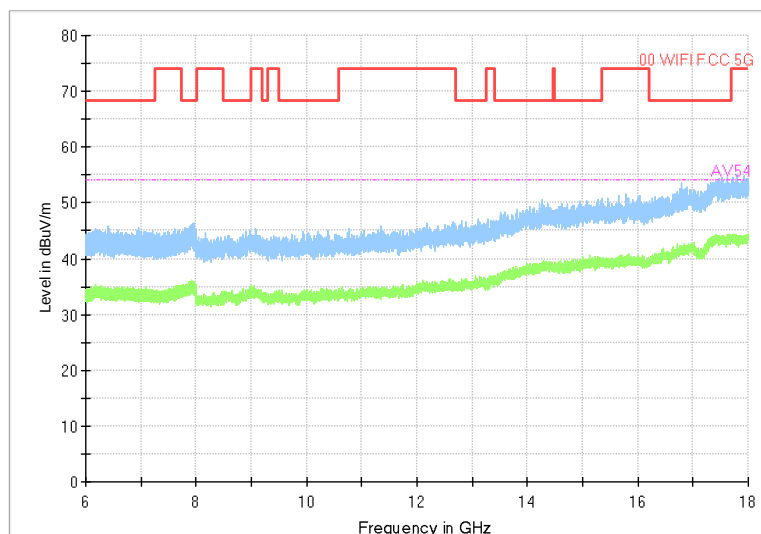


Frequency Range: 1GHz -6GHz

Detector: Av mode and PK mode

Test Mode: 802.11ax(HE20)

Full Spectrum

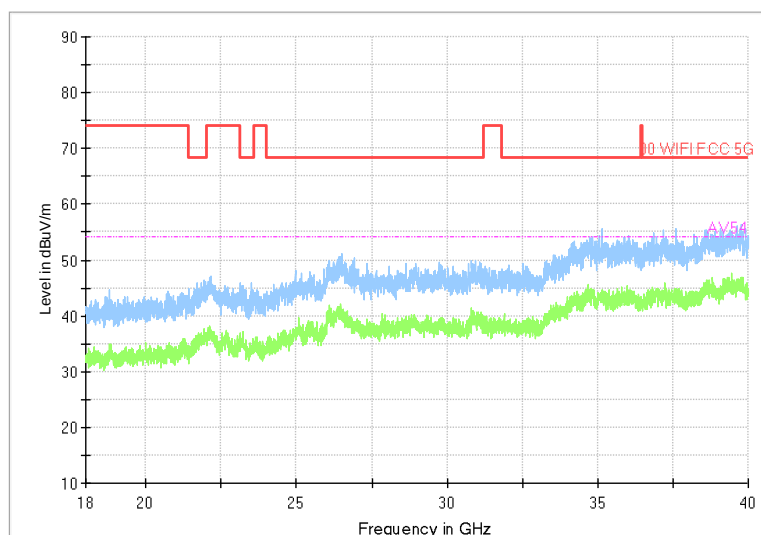


Frequency Range: 6GHz -18GHz

Detector: Av mode and PK mode

Test Mode: 802.11ax(HE20)

Full Spectrum



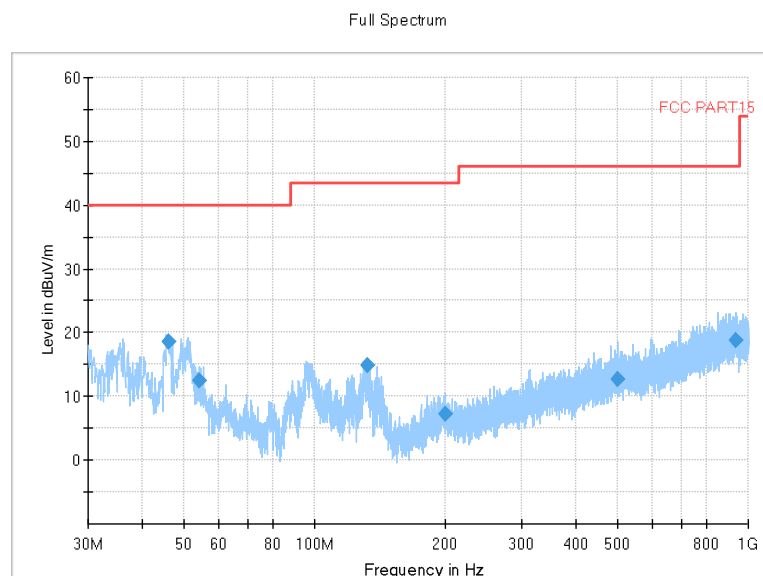
Frequency Range: 18GHz -40GHz

Detector: Av mode and PK mode

Test Mode: 802.11ax(HE20)

Carrier frequency (MHz): 5190

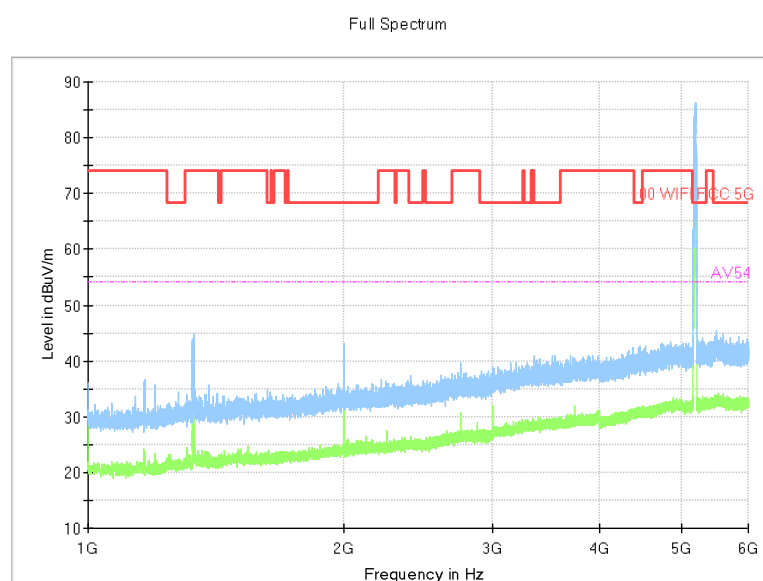
Channel No.:38



Frequency Range: 30MHz -1GHz

Detector: QP mode

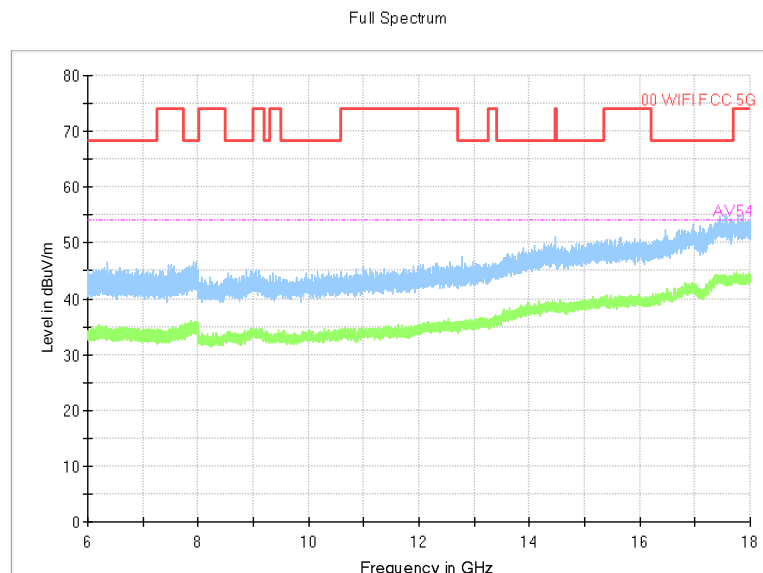
Modulation type: 802.11n(HT40)



Frequency Range: 1GHz -6GHz

Detector: Av mode and PK mode

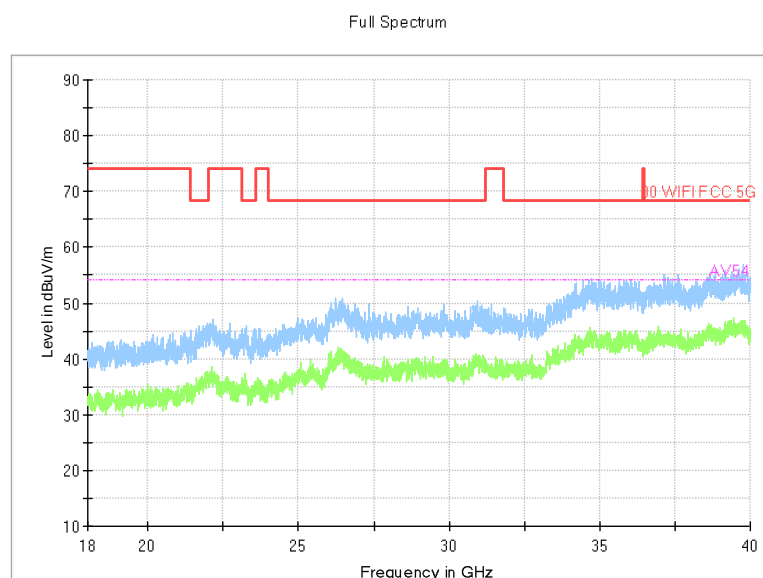
Modulation type: 802.11n(HT40)



Frequency Range: 6GHz -18GHz

Detector: Av mode and PK mode

Modulation type: 802.11n(HT40)



Frequency Range: 18GHz -40GHz

Detector: Av mode and PK mode

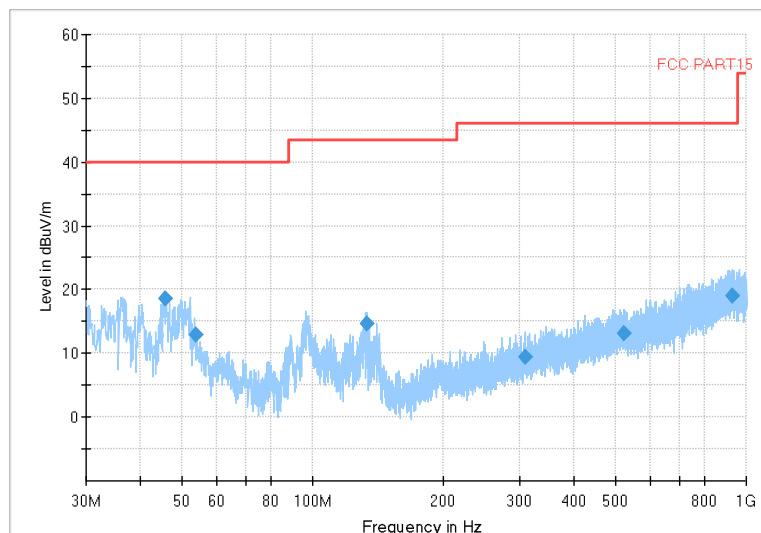
Modulation type: 802.11n(HT40)



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Test Report No.: PSU-NQN2502170213RF010

Full Spectrum

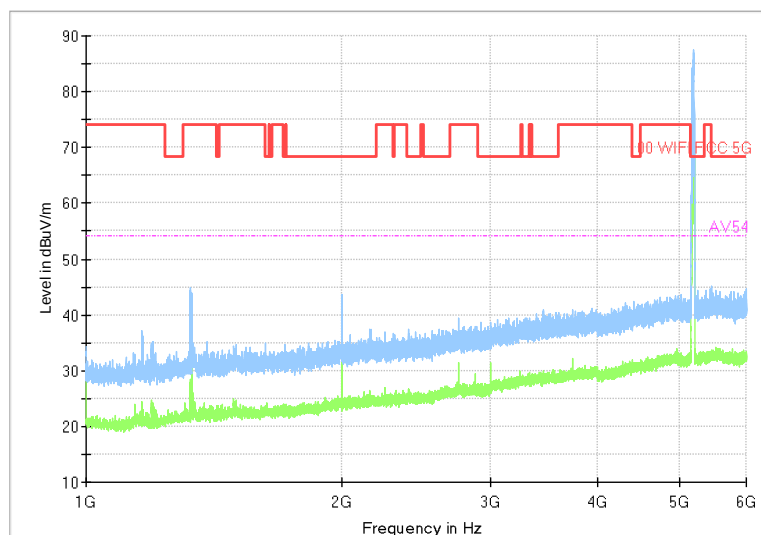


Frequency Range: 30MHz -1GHz

Detector: QP mode

Test Mode: 802.11ac(VHT40)

Full Spectrum

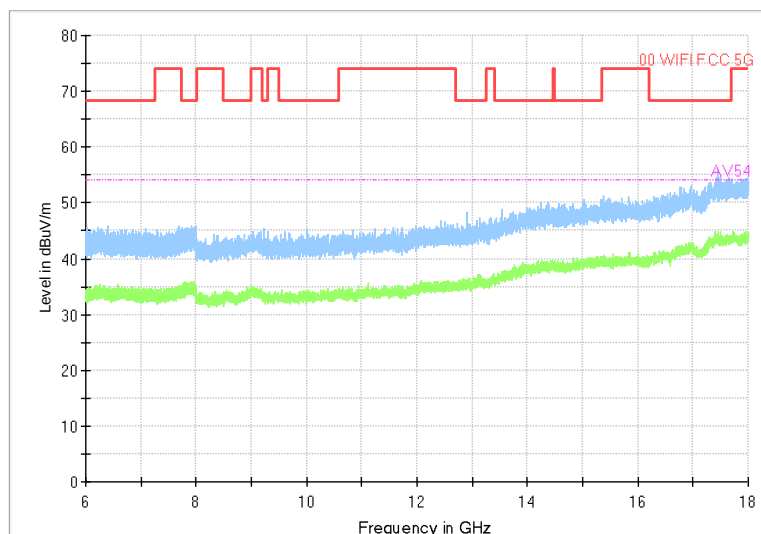


Frequency Range: 1GHz -6GHz

Detector: Av mode and PK mode

Test Mode: 802.11ac(VHT40)

Full Spectrum

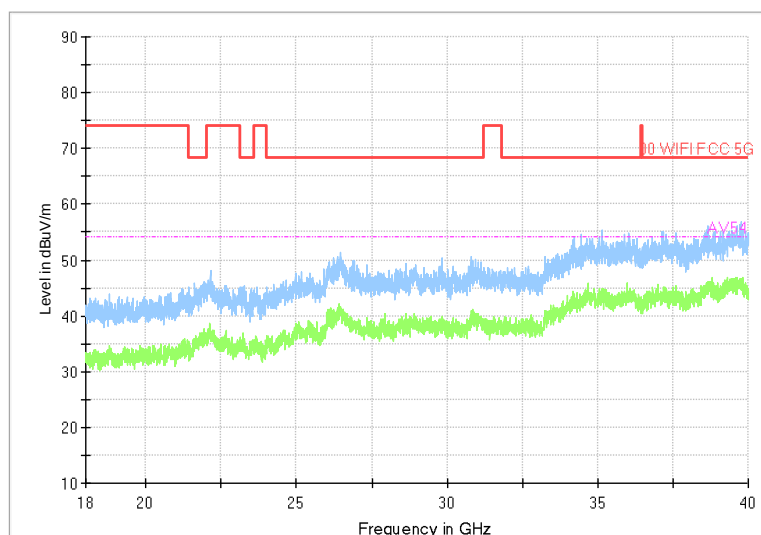


Frequency Range: 6GHz -18GHz

Detector: Av mode and PK mode

Test Mode: 802.11ac(VHT40)

Full Spectrum

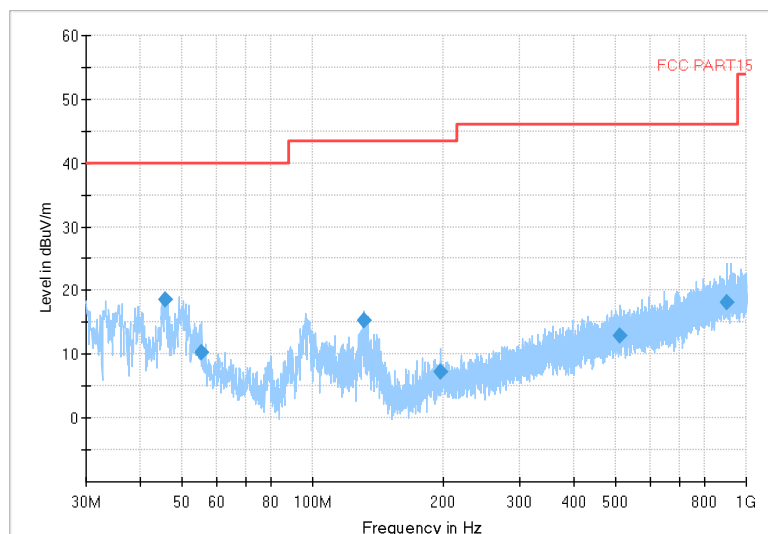


Frequency Range: 18GHz -40GHz

Detector: Av mode and PK mode

Test Mode: 802.11ac(VHT40)

Full Spectrum

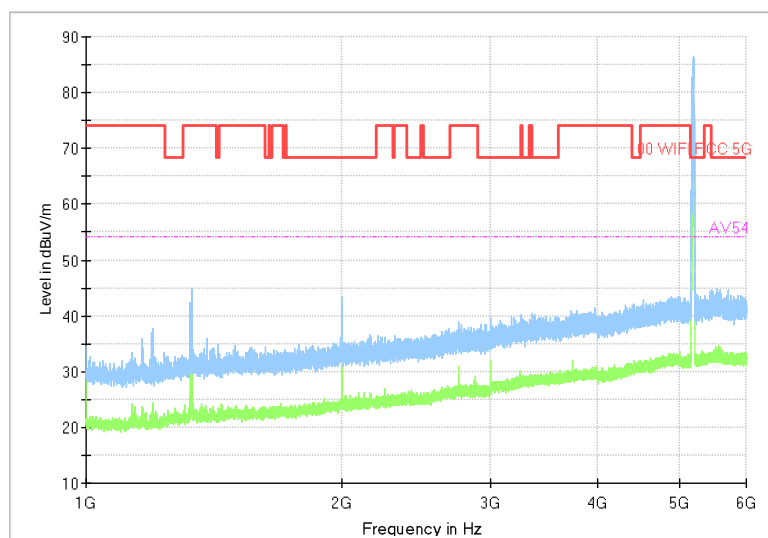


Frequency Range: 30MHz -1GHz

Detector: QP mode

Test Mode: 802.11ax(HE40)

Full Spectrum

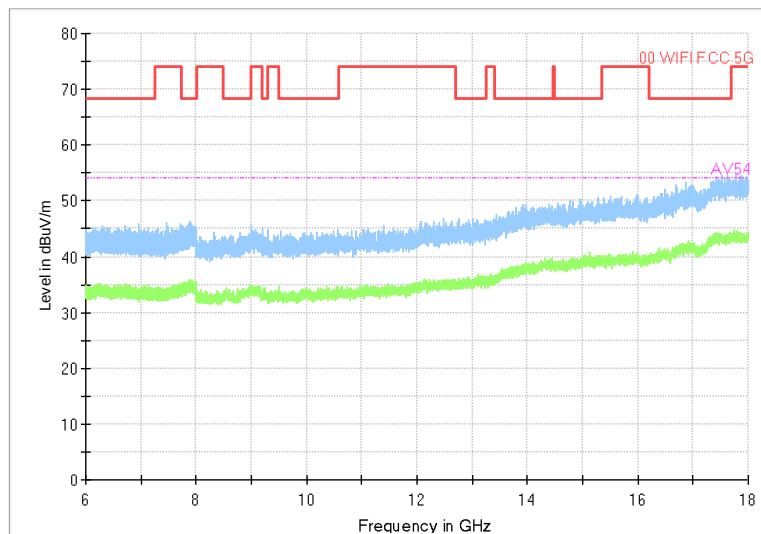


Frequency Range: 1GHz -6GHz

Detector: Av mode and PK mode

Test Mode: 802.11ax(HE40)

Full Spectrum

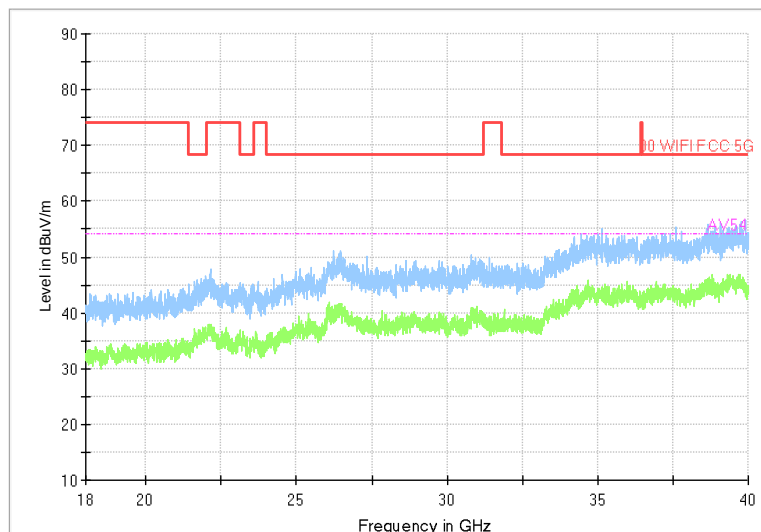


Frequency Range: 6GHz -18GHz

Detector: Av mode and PK mode

Test Mode: 802.11ax(HE40)

Full Spectrum



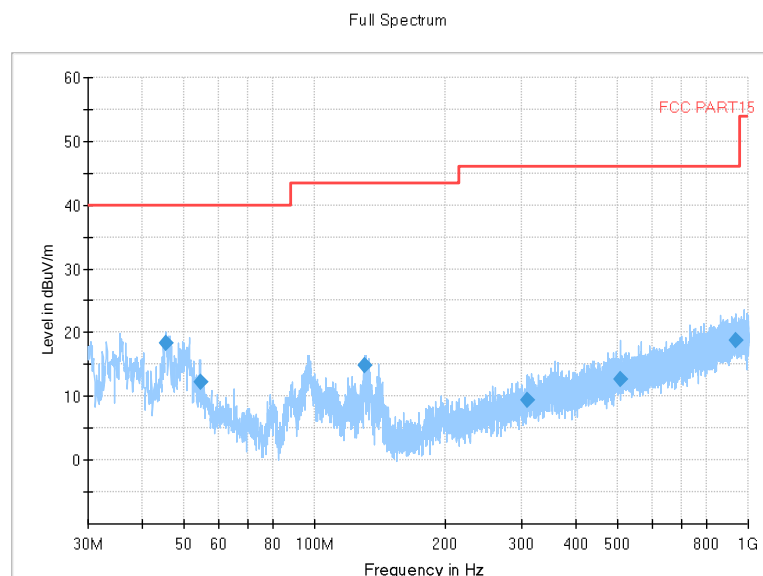
Frequency Range: 18GHz -40GHz

Detector: Av mode and PK mode

Test Mode: 802.11ax(HE40)

Carrier frequency (MHz): 5230

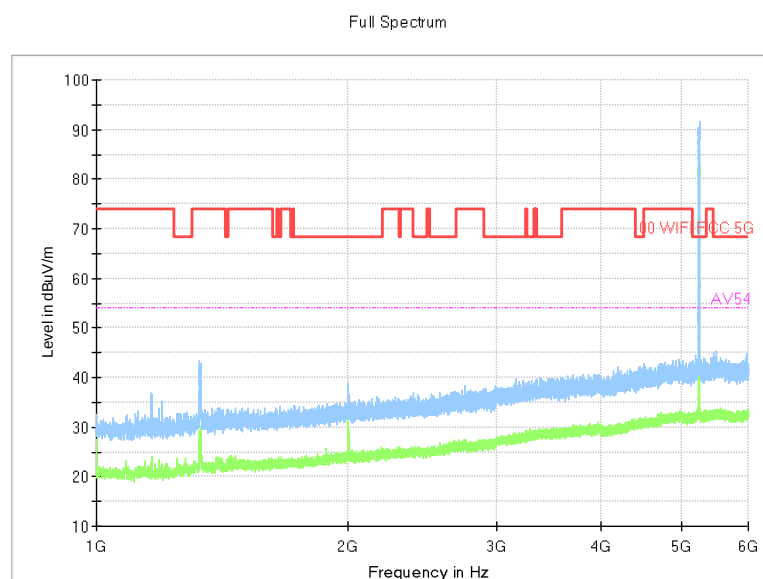
Channel No.:46



Frequency Range: 30MHz -1GHz

Detector: QP mode

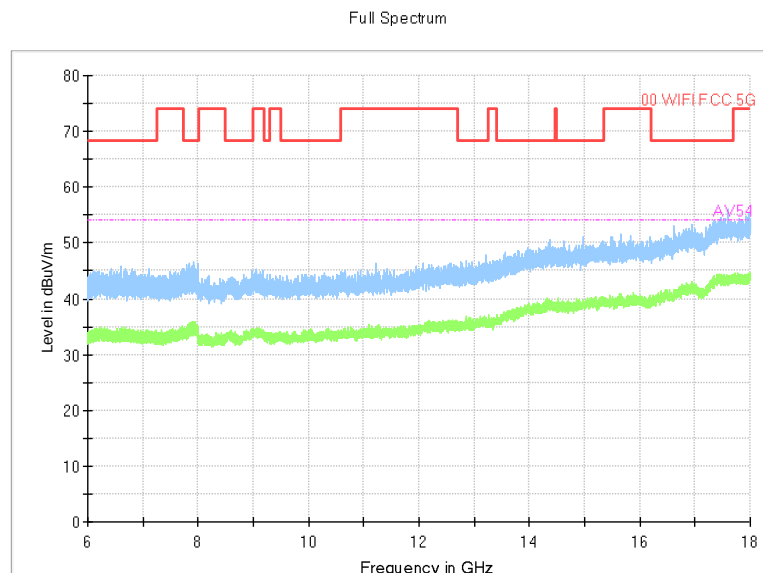
Modulation type: 802.11n(HT40)



Frequency Range: 1GHz -6GHz

Detector: Av mode and PK mode

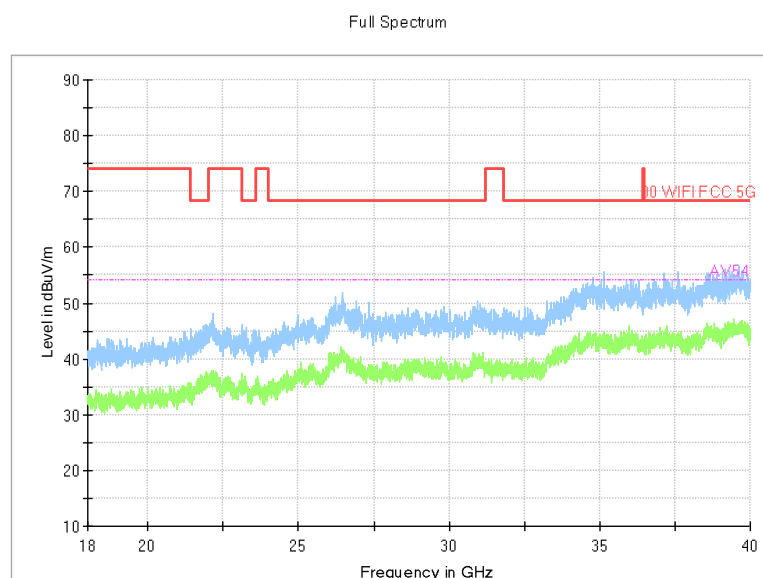
Modulation type: 802.11n(HT40)



Frequency Range: 6GHz -18GHz

Detector: Av mode and PK mode

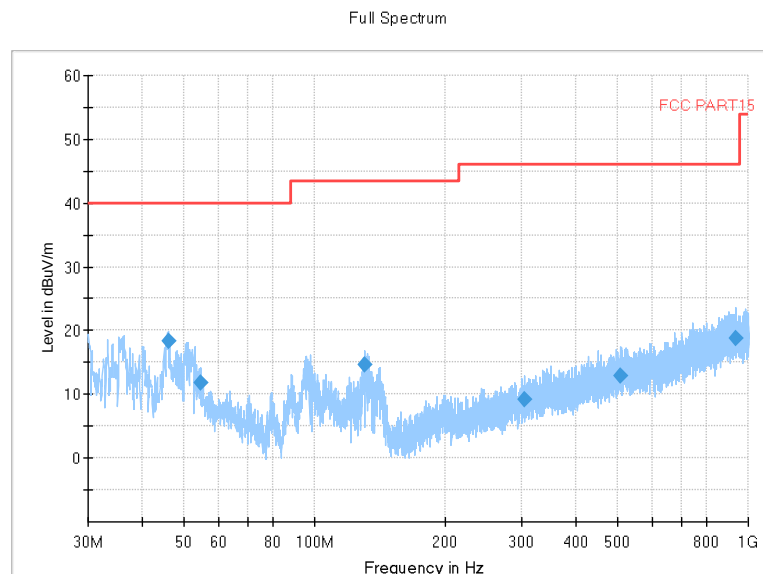
Modulation type: 802.11n(HT40)



Frequency Range: 18GHz -40GHz

Detector: Av mode and PK mode

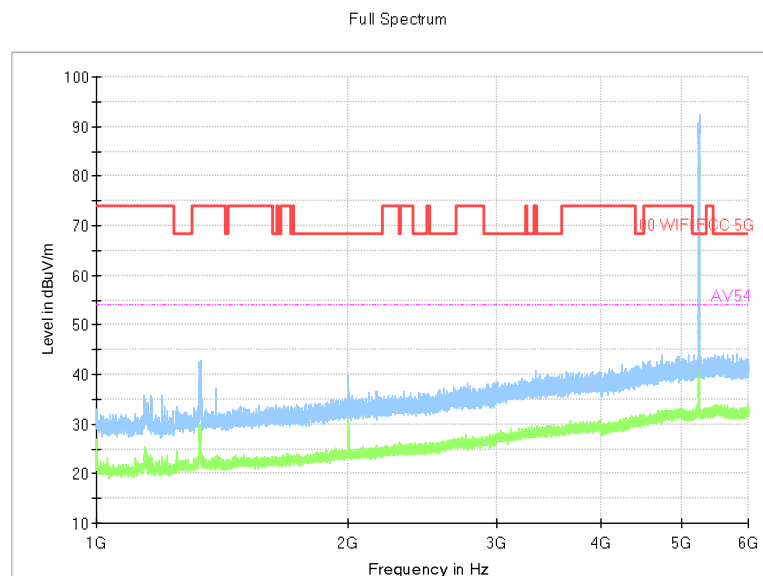
Modulation type: 802.11n(HT40)



Frequency Range: 30MHz -1GHz

Detector: QP mode

Test Mode: 802.11ac(VHT40)

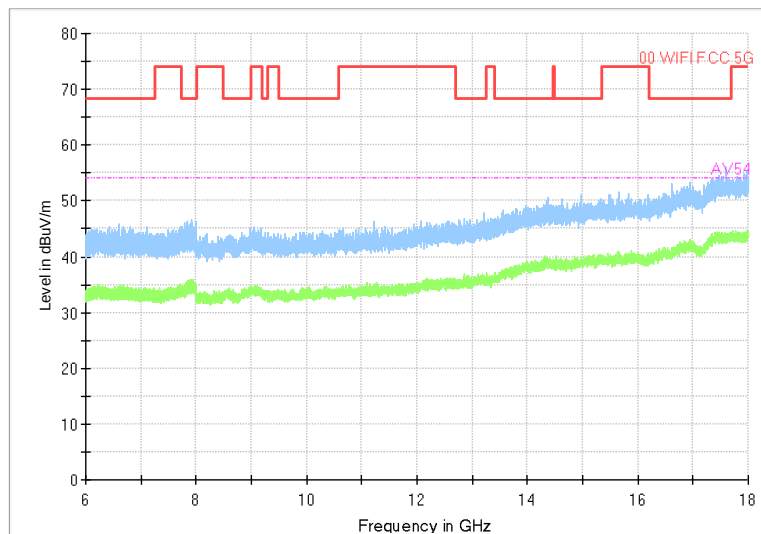


Frequency Range: 1GHz -6GHz

Detector: Av mode and PK mode

Test Mode: 802.11ac(VHT40)

Full Spectrum

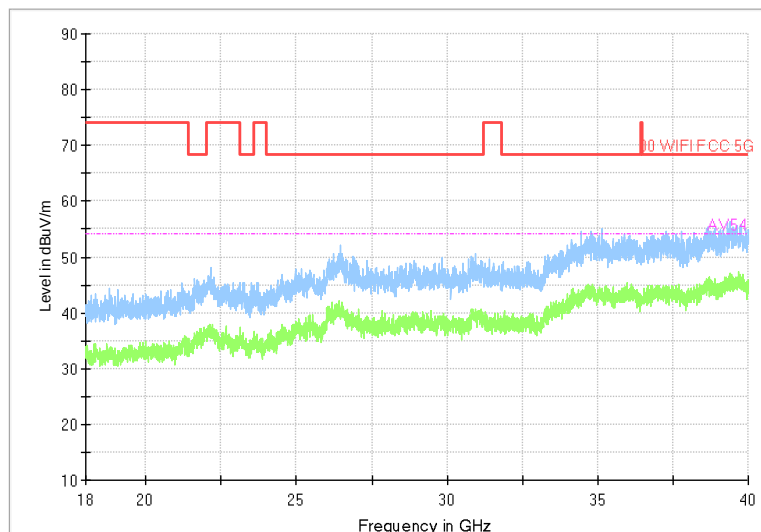


Frequency Range: 6GHz -18GHz

Detector: Av mode and PK mode

Test Mode: 802.11ac(VHT40)

Full Spectrum

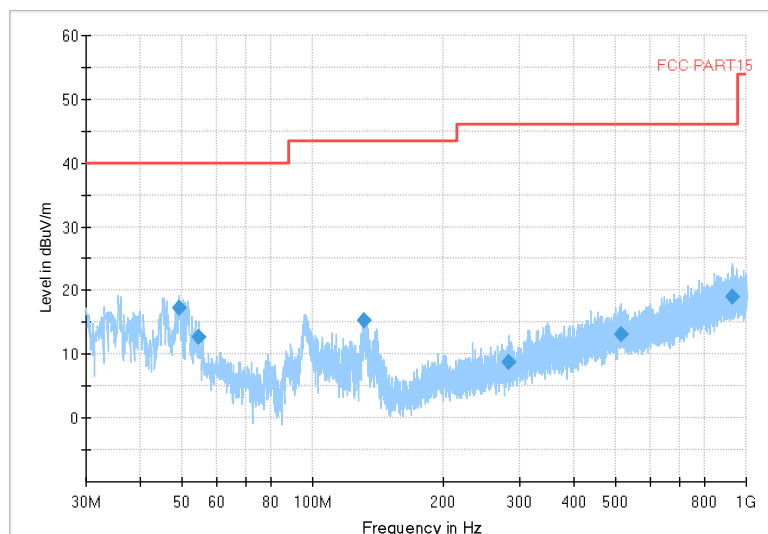


Frequency Range: 18GHz -40GHz

Detector: Av mode and PK mode

Test Mode: 802.11ac(VHT40)

Full Spectrum

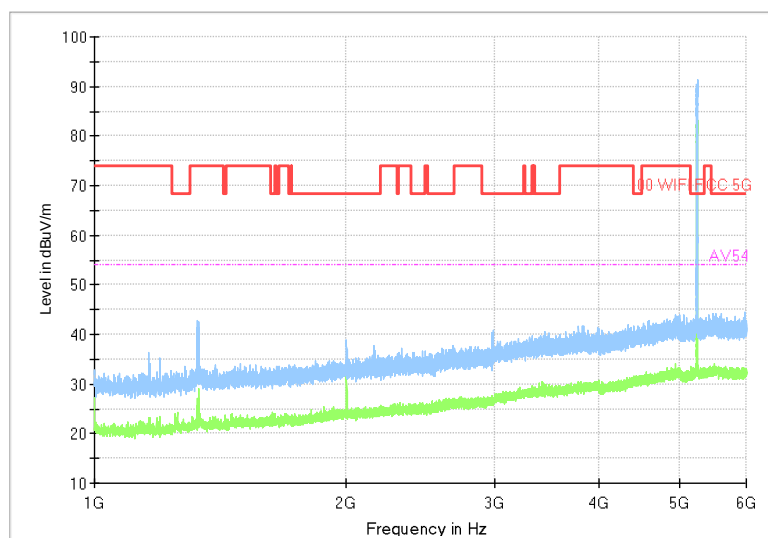


Frequency Range: 30MHz -1GHz

Detector: QP mode

Test Mode: 802.11ax(HE40)

Full Spectrum



Frequency Range: 1GHz -6GHz

Detector: Av mode and PK mode

Test Mode: 802.11ax(HE40)