

FCC TEST REPORT

(Part 15, Subpart E)

Applicant:	SHARP CORPORATION
Address:	1 Takumi-cho, Sakai-ku, Sakai City, Osaka 590-8522, Japan

Manufacturer or Supplier:	SHARP CORPORATION
Address:	1 Takumi-cho, Sakai-ku, Sakai City, Osaka 590-8522, Japan
Product:	Smart Phone
Brand Name:	SHARP
FCC ID:	APYHRO00336
Date of tests:	Mar. 19, 2025 ~ Apr.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: Apr.28, 2025	 Date: Apr.28, 2025

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Test Report No.: PSU-NQN2504150110RF08

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
PSU-NQN2504150110RF08	Original release	Apr.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 and Band Edge Measurement, other data please refer to the appendix A and Appendix B.

***Test Lab Information Reference**

Lab A:

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

Lab Address:

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

Accredited Test Lab Cert 6613.01

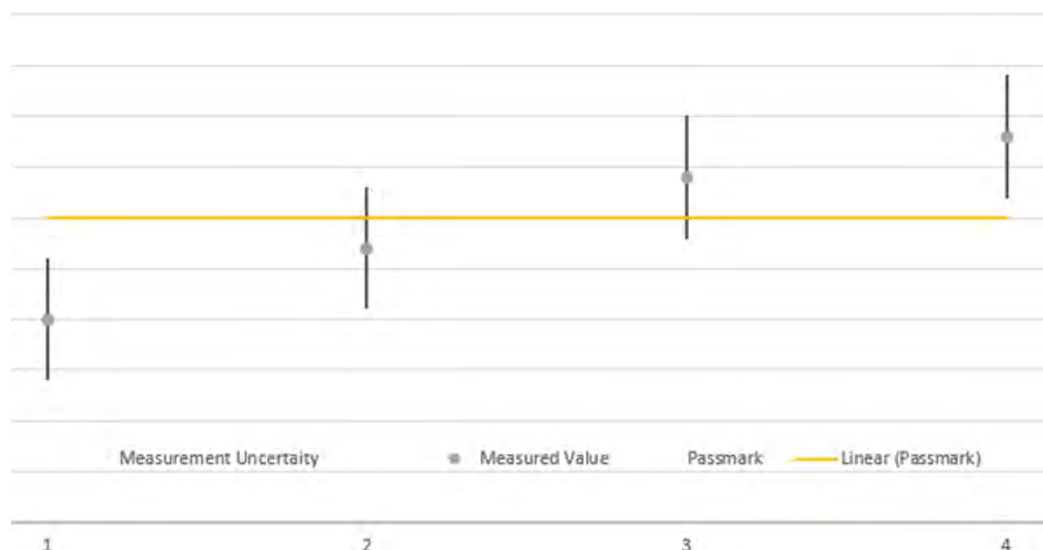
The FCC Site Registration No. is 434559; The Designation No. is CN1325.

1.1 MEASUREMENT UNCERTAINTY

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

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

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



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

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

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



2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT*	Smart Phone
BRAND NAME*	SHARP
NOMINAL VOLTAGE*	4.0Vdc(adapter or host equipment) 3.89Vdc (Li-ion, battery)
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 1441Mbps 802.11be: up to 1441Mbps
OPERATING FREQUENCY	5180 ~ 5250MHz, 5260 ~ 5320MHz, 5500 ~ 5720MHz, 5745 ~ 5825MHz
NUMBER OF CHANNEL	5180 ~ 5250MHz: 4 for 802.11a, 802.11n/ac/ax/be (20MHz) 2 for 802.11n/ac/ax/be (40MHz) 1 for 802. 802.11ac/ax/be (80MHz) 1 for 802. 802.11ac/ax/be (160MHz) 5260 ~ 5320MHz: 4 for 802.11a, 802.11n/ac/ax/be (20MHz)/ 2 for 802.11n/ac/ax/be (40MHz) 1 for 802.11ac/ax/be (80MHz) 5500 ~ 5720MHz: 12 for 802.11a, 802.11n/ac/ax/be (20MHz) 6 for 802.11n/ac/ax/be (40MHz) 3 for 802.11ac/ax/be (80MHz) 1 for 802. 802.11ac/ax/be (160MHz) 5745 ~ 5825MHz: 5 for 802.11a, 802.11n/ac/ax/be (20MHz) 2 for 802.11n/ac/ax/be (40MHz) 1 for 802.11ac/ax/be (80MHz)
Resource Unit (RU)	Single RU: 26-tone, 52-tone,106-tone,242-tone,484-tone, 996-tone,2*996-tone Multi-RU (Small RU):52-tone + 26-tone, 106-tone + 26-tone Multi-RU (Large RU):484-tone + 242-tone, 996-tone + 484-tone, 996-tone+ 484-tone +242-tone
MAX. OUTPUT POWER	26.79 mW for 5180 ~ 5250MHz 25.41 mW for 5260 ~ 5320MHz 30.48 mW for 5500 ~ 5720MHz 25.52 mW for 5745 ~ 5825MHz
ANTENNA TYPE*	PIFA Antenna



ANTENNA GAIN*	ANT 4: -2.9dBi for 5180 ~ 5240MHz -1.8dBi for 5260 ~ 5320MHz -2.0dBi for 5500 ~ 5720MHz -0.5dBi for 5745 ~ 5825MHz ANT 8: -0.6dBi for 5180 ~ 5240MHz -0.7dBi for 5260 ~ 5320MHz -4.5dBi for 5500 ~ 5720MHz -4.6dBi for 5745 ~ 5825MHz
HW Version*	DVT
SW Version*	A2270
I/O PORTS*	Refer to user's manual
EXTREME TEMPERATURE*	5~35°C
EXTREME VOLTAGE*	3.7V~4V

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/be (20MHz)	2TX/2RX
802.11n/802.11ac/ax/be (40MHz)	2TX/2RX
802.11ac/ax/be (80MHz)	2TX/2RX
802.11ac/ax/be (160MHz)	2TX/2RX
802.11ax/be (20MHz RU26/52/106/242)	2TX/2RX
802.11ax/be (40MHz RU26/52/106/242/484)	2TX/2RX
802.11ax/be (80MHz RU26/52/106/242/484/996)	2TX/2RX
802.11ax/be (160MHz RU26/52/106/242/484/996/1992)	2TX/2RX
802.11be(20MHz MRU52+26/106+26)	2TX/2RX
802.11be(40MHz MRU52+26/106+26/484+242)	2TX/2RX
802.11be(80MHz MRU52+26/106+26/484+242/996+484/ 996+484+242)	2TX/2RX
802.11be(80MHz MRU52+26/106+26/484+242/996+484/ 996+484+242)	2TX/2RX

- For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
- 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.

6. **List of Accessory:**

Battery Information	Battery Type	Li-Lon
	Manufacturer	Ningde Amperex Technology Limited
	Model Number	UBATIA319AFN2
	Capacity	4880 mAh
	Nominal Voltage	3.89V

2.2 DESCRIPTION OF TEST MODES

FOR 5180 ~ 5250MHz

4 channels are provided for 802.11a, 802.11n, 802.11ac/ax/be (20MHz)/ 802.11ax/be (20MHz RU 26/52/106/242)/ 802.11be (20MHz MRU52+26/106+26):

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/be (40MHz)/ 802.11ax/be

(40MHz RU 26/52/106/242/484)/ 802.11be (40MHz MRU52+26/106+26/484+242):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

1 channels are provided for 802.11ac/ax/be (80MHz)/ 802.11ax/be (80MHz RU 26/52/106/242/484/996)/ 802.11be (80MHz MRU52+26/106+26/484+242/996+484/996+484+242):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
42	5210 MHz		

1 channels are provided for 802.11ac/ax/be (160MHz)/ 802.11ax/be (160MHz RU 26/52/106/242/484/996/1992)/ 802.11be (160MHz MRU52+26/106+26/484+242/996+484/996+484+242):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
50	5250 MHz		

**FOR 5260 ~ 5320MHz**

4 channels are provided for 802.11a, 802.11n, 802.11ac/ax/be (20MHz)/ 802.11ax/be (20MHz RU 26/52/106/242)/ 802.11be (20MHz MRU52+26/106+26):

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

2 channels are provided for 802.11n, 802.11ac/ax/be (40MHz)/ 802.11ax/be (40MHz RU 26/52/106/242/484)/ 802.11be (40MHz MRU52+26/106+26/484+242):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac/ax/be (80MHz)/ 802.11ax/be (80MHz RU 26/52/106/242/484/996)/ 802.11be (80MHz MRU52+26/106+26/484+242/996+484/996+484+242) :

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
58	5290 MHz		

FOR 5500 ~ 5720MHz

12 channels are provided for 802.11a, 802.11n, 802.11ac/ax/be (20MHz)/ 802.11ax/be (20MHz RU 26/52/106/242)/ 802.11be (20MHz MRU52+26/106+26):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
100	5500 MHz	124	5620MHz
104	5520 MHz	128	5640MHz
108	5540 MHz	132	5660 MHz
112	5560 MHz	136	5680 MHz
116	5580 MHz	140	5700 MHz
120	5600 MHz	144	5720 MHz

6 channels are provided for 802.11n, 802.11ac/ax/be (40MHz)/ 802.11ax/be (40MHz RU 26/52/106/242/484)/ 802.11be (40MHz MRU52+26/106+26/484+242):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
102	5510 MHz	126	5630MHz
110	5550 MHz	134	5670 MHz
118	5590 MHz	142	5710 MHz

3 channel is provided 802.11ac/ax/be (80MHz)/ 802.11ax/be (80MHz RU 26/52/106/242/484/996)/ 802.11be (80MHz MRU52+26/106+26/484+242/996+484/996+484+242):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
106	5530 MHz	138	5690 MHz
122	5610 MHz		

1 channels are provided for 802.11ac/ax/be (160MHz)/ 802.11ax/be (160MHz RU 26/52/106/242/484/996/1992)/ 802.11be (160MHz MRU52+26/106+26/484+242/996+484/996+484+242):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
114	5570 MHz		

FOR 5745 ~ 5825MHz

5 channels are provided for 802.11a, 802.11n, 802.11ac/ax/be (20MHz)/ 802.11ax/be (20MHz RU 26/52/106/242)/ 802.11be (20MHz MRU52+26/106+26):

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/be (40MHz)/ 802.11ax/be (40MHz RU 26/52/106/242/484)/ 802.11be (40MHz MRU52+26/106+26/484+242):

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

1 channel is provided 802.11ac/ax/be (80MHz)/ 802.11ax/be (80MHz RU 26/52/106/242/484/996)/ 802.11be (80MHz MRU52+26/106+26/484+242/996+484/996+484+242):

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	5180-5250	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	802.11ac/ax (160MHz)/ 802.11ax (160MHz RU 1992)		50	50	OFDM, OFDMA	MCS0
A	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6.0
A	802.11n/ac/ax (20MHz)/ 802.11ax (20MHz RU 242)		52 to 64	52, 60, 64	OFDM, OFDMA	MCS0
A	802.11n/ac/ax (40MHz)/ 802.11ax (40MHz RU 484)		54 to 62	54, 62	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 996)		58	58	OFDM, OFDMA	MCS0
A	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0
A	802.11n/ac/ax (20MHz)/ 802.11ax (20MHz RU 242)		100 to 144	100, 116, 140, 144	OFDM, OFDMA	MCS0
A	802.11n/ac/ax (40MHz)/ 802.11ax (40MHz RU 484)		102 to 142	102, 110, 134, 142	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 996)		106 to 138	106, 138	OFDM, OFDMA	MCS0
A	802.11ac/ax (160MHz)/ 802.11ax (160MHz RU 1992)		114	114	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

BANDEDGE MEASUREMENT:

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

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
A	802.11a	5180-5250	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	802.11ac/ax (160MHz)/ 802.11ax (160MHz RU 1992)		50	50	OFDM, OFDMA	MCS0
A	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6.0
A	802.11n/ac/ax (20MHz)/ 802.11ax (20MHz RU 242)		52 to 64	52, 60, 64	OFDM, OFDMA	MCS0
A	802.11n/ac/ax (40MHz)/ 802.11ax (40MHz RU 484)		54 to 62	54, 62	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 996)		58	58	OFDM, OFDMA	MCS0
A	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0
A	802.11n/ac/ax (20MHz)/ 802.11ax (20MHz RU 242)		100 to 144	100, 116, 140, 144	OFDM, OFDMA	MCS0
A	802.11n/ac/ax (40MHz)/ 802.11ax (40MHz RU 484)		102 to 142	102, 110, 134, 142	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 996)		106 to 138	106, 138	OFDM, OFDMA	MCS0
A	802.11ac/ax (160MHz)/ 802.11ax (160MHz RU 1992)		114	114	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

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	MODULATION	DATA RATE (Mbps)
A	802.11a	5180-5250	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	802.11ac/ax (160MHz)/ 802.11ax (160MHz RU 1992)		50	50	OFDM, OFDMA	MCS0
A	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6.0
A	802.11n/ac/ax (20MHz)/ 802.11ax (20MHz RU 242)		52 to 64	52, 60, 64	OFDM, OFDMA	MCS0
A	802.11n/ac/ax (40MHz)/ 802.11ax (40MHz RU 484)		54 to 62	54, 62	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 996)		58	58	OFDM, OFDMA	MCS0
A	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0
A	802.11n/ac/ax (20MHz)/ 802.11ax (20MHz RU 242)		100 to 144	100, 116, 140, 144	OFDM, OFDMA	MCS0
A	802.11n/ac/ax (40MHz)/ 802.11ax (40MHz RU 484)		102 to 142	102, 110, 134, 142	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 996)		106 to 138	106, 138	OFDM, OFDMA	MCS0
A	802.11ac/ax (160MHz)/ 802.11ax (160MHz RU 1992)		114	114	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
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TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE<1G	23deg. C, 70%RH	DC 4V By Adapter	Hanwen Xu
RE≥1G	23deg. C, 70%RH	DC 4V By Adapter	Hanwen Xu
PLC	25deg. C, 52%RH	DC 4V By Adapter	Hanwen Xu
APCM	25deg. C, 60%RH	DC 3.7V By DC Supply	Hanwen Xu

2.3 DUTY CYCLE OF TEST SIGNAL

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

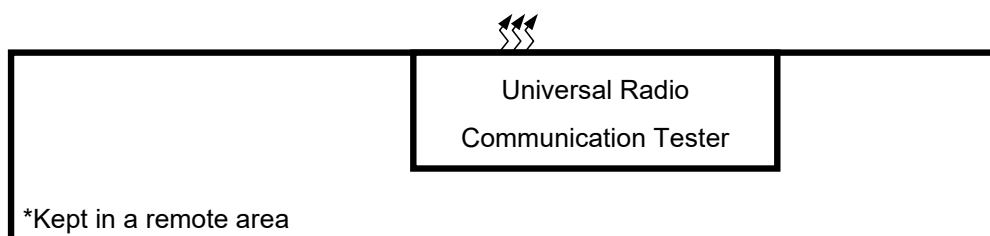
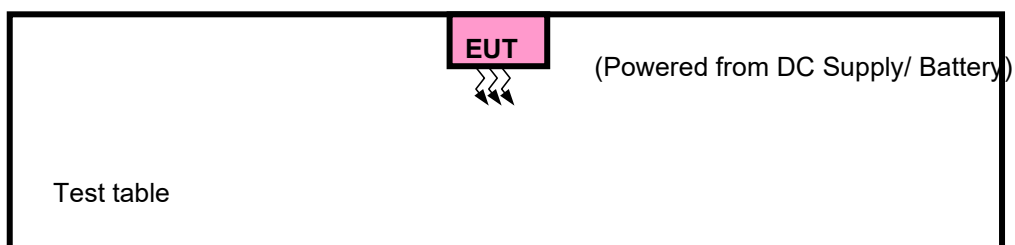
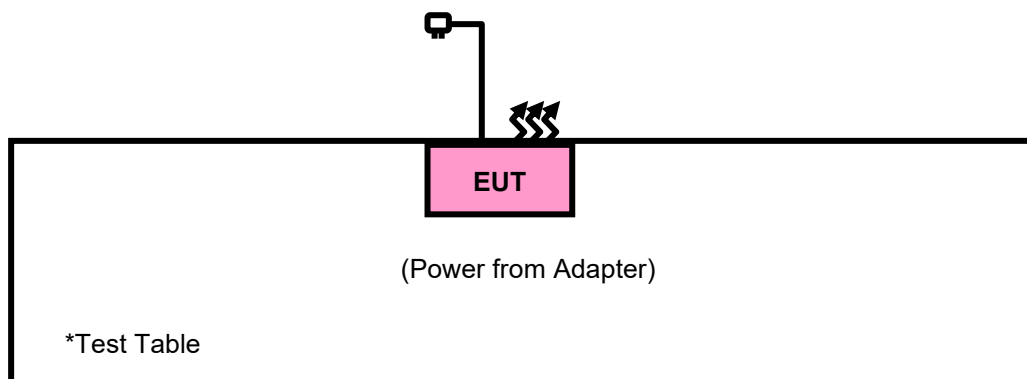
2.4 DESCRIPTION OF SUPPORT UNITS

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.23,25	Feb.22,27
WIDEBANDRADIO COMMUNICATION TESTER	R&S	CMW500	169399	Jun.19,24	Jun.18,26
Test Software	ELEKTRA	ELEKTRA4.32	N/A	N/A	N/A
Open Switch and Control Unit	R&S	OSP220	101964	N/A	N/A
DC Source	HYELEC	HY3010B	551016	Aug.31,23	Aug.30,25
Hygrothermograph	DELI	20210528	SZ014	Sep.06,23	Sep.05,25
6DB attenuator	Tonscend Technology Co., Ltd	N/A	23062787	N/A	N/A
PC	LENOVO	E14	HRSW0024	N/A	N/A
TMC-AMI18843A(CABLE)	R&S	HF290-NMNM-7.00M	N/A	N/A	N/A
TMC-AMI18843A(CABLE)	R&S	HF290-NMNM-	N/A	N/A	N/A

**Test Report No.: PSU-NQN2504150110RF08**

		4.00M			
CABLE	R&S	W13.02	N/A	Apr.27,25	Apr.26,26
CABLE	R&S	W12.14	N/A	Apr.27,25	Apr.26,26

- 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:

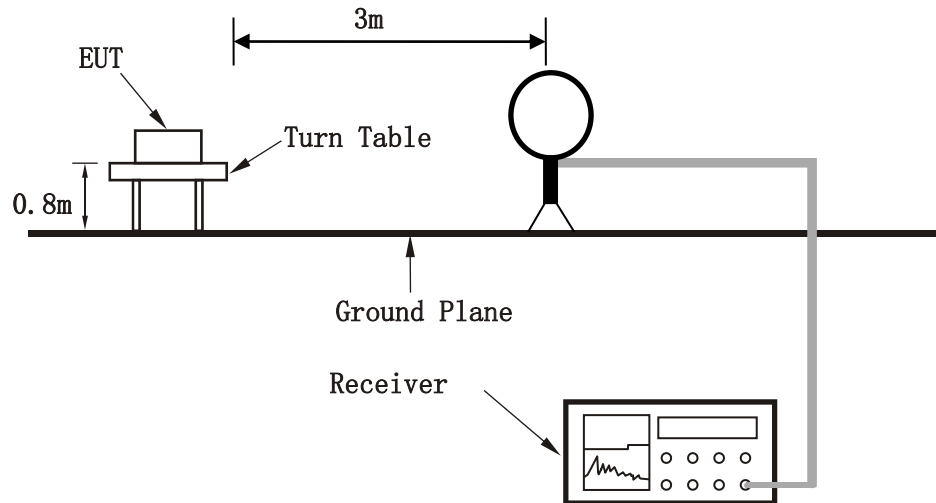
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency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

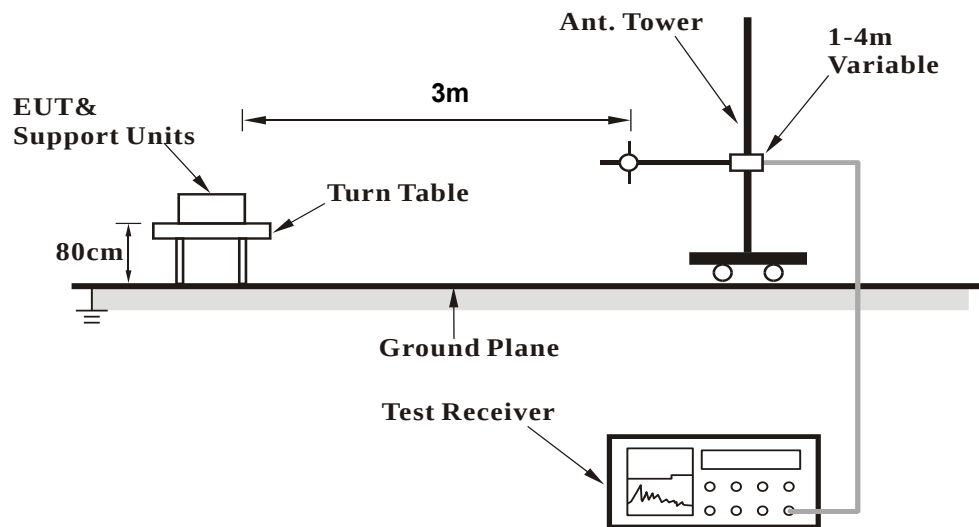
No deviation.

3.1.6 TEST SETUP

<Frequency Range 9KHz~30MHz >

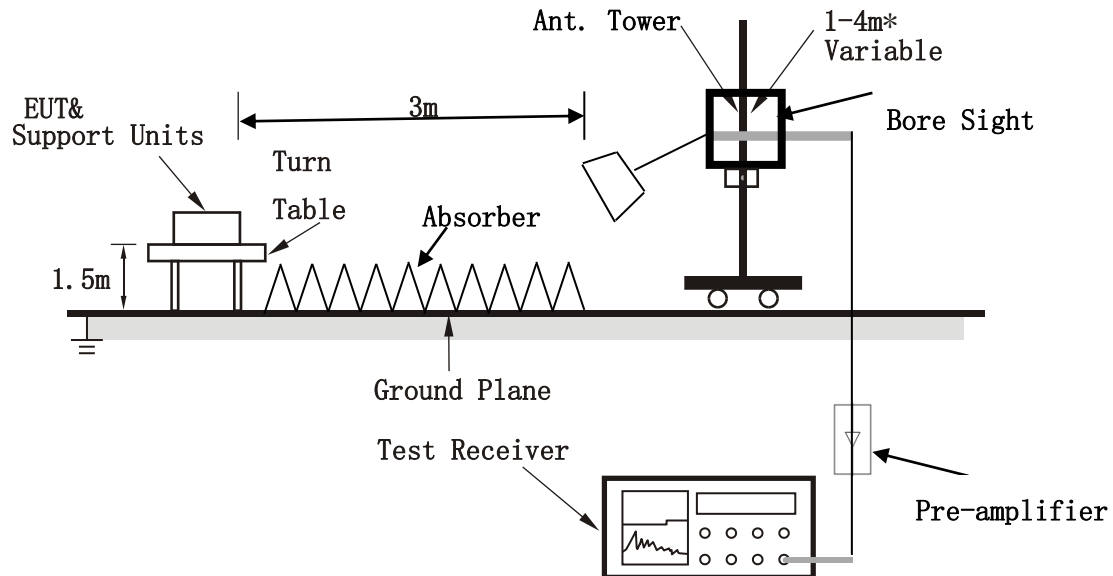


< Frequency Range 30MHz~1GHz >





<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).

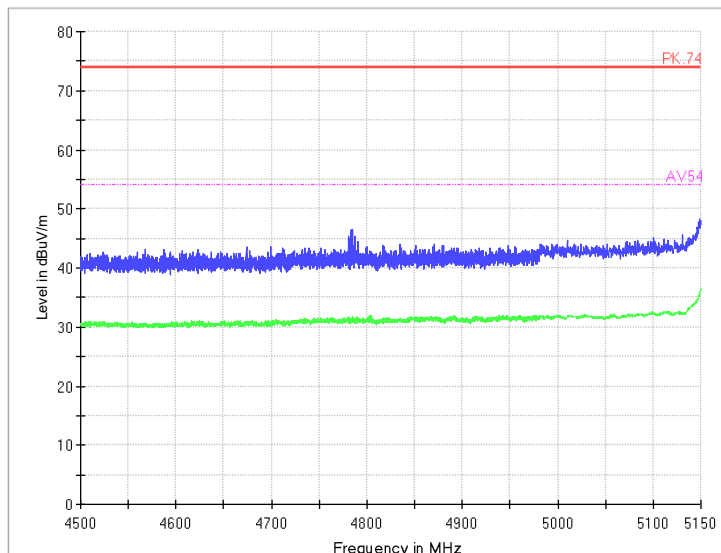
3.1.7 EUT OPERATING CONDITION

- 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

Radiated Emission Band Edge for WIFI

20M

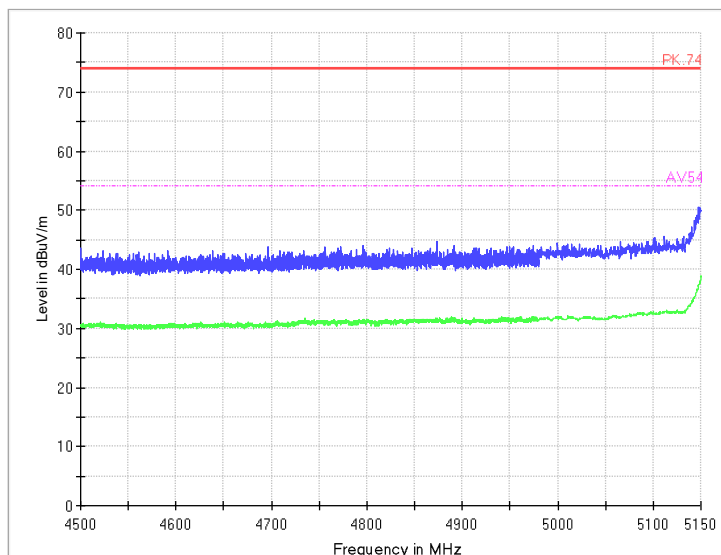


Radiated Emission Band Edge

Channel No.:36

Test Mode: 802.11a

Polarization: V

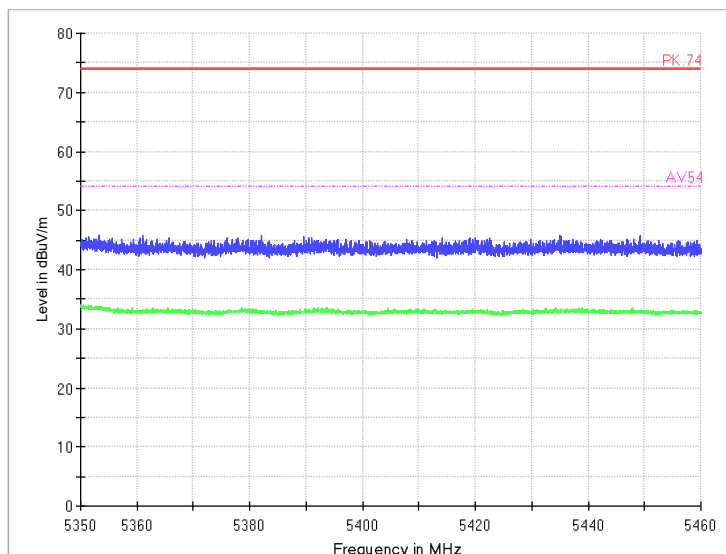


Radiated Emission Band Edge

Channel No.:36

Test Mode: 802.11a

Polarization: H

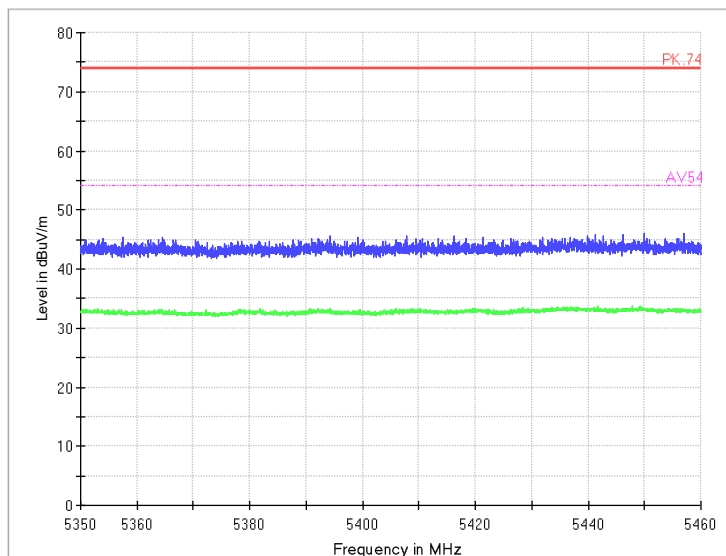


Radiated Emission Band Edge

Channel No.:64

Test Mode: 802.11a

Polarization: V

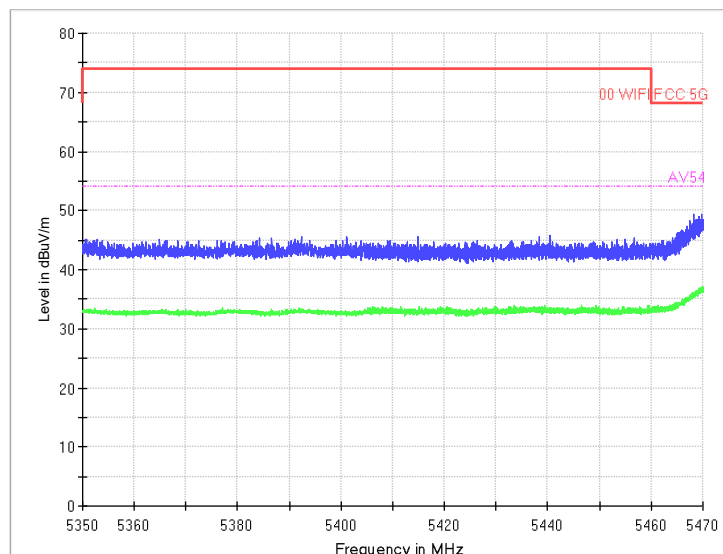


Radiated Emission Band Edge

Channel No.:64

Test Mode: 802.11a

Polarization: H

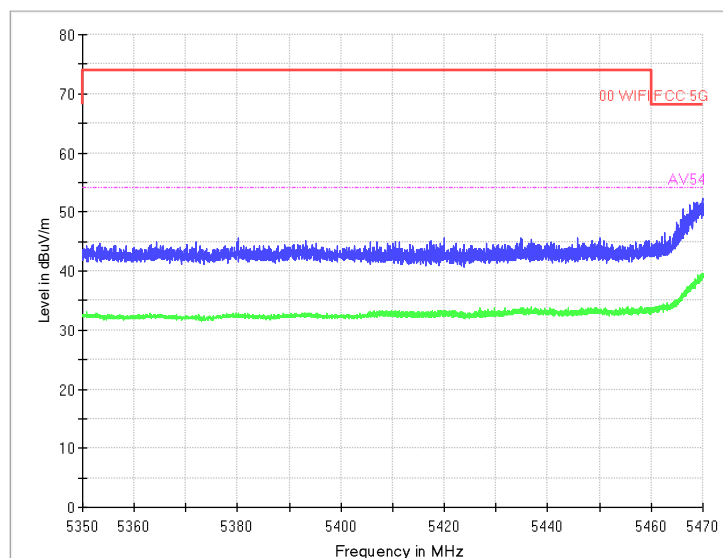


Radiated Emission Band Edge

Channel No.:100

Test Mode: 802.11a

Polarization: V

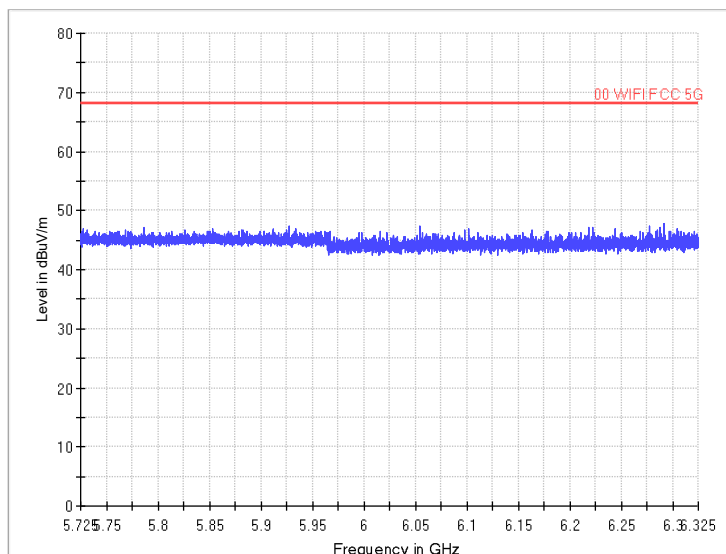


Radiated Emission Band Edge

Channel No.:100

Test Mode: 802.11a

Polarization: H

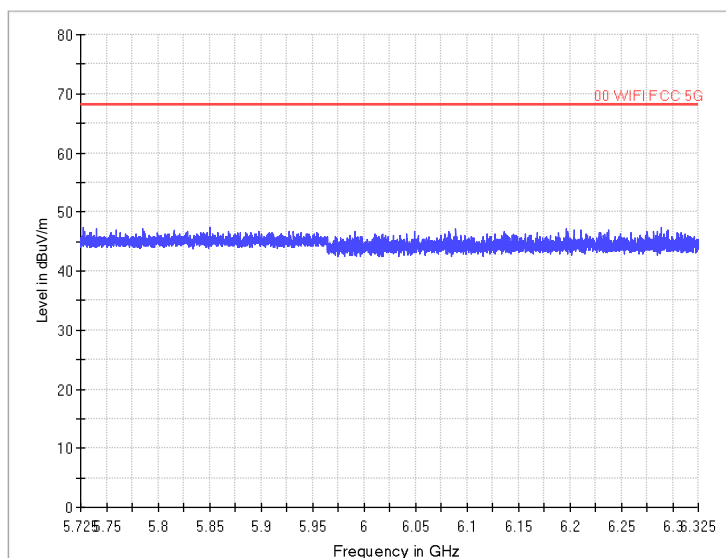


Radiated Emission Band Edge

Channel No.:140

Test Mode: 802.11a

Polarization: V

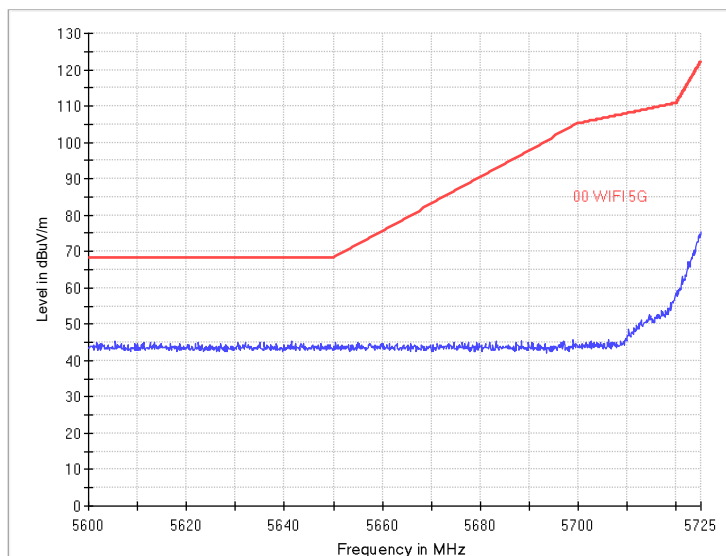


Radiated Emission Band Edge

Channel No.:140

Test Mode: 802.11a

Polarization: H

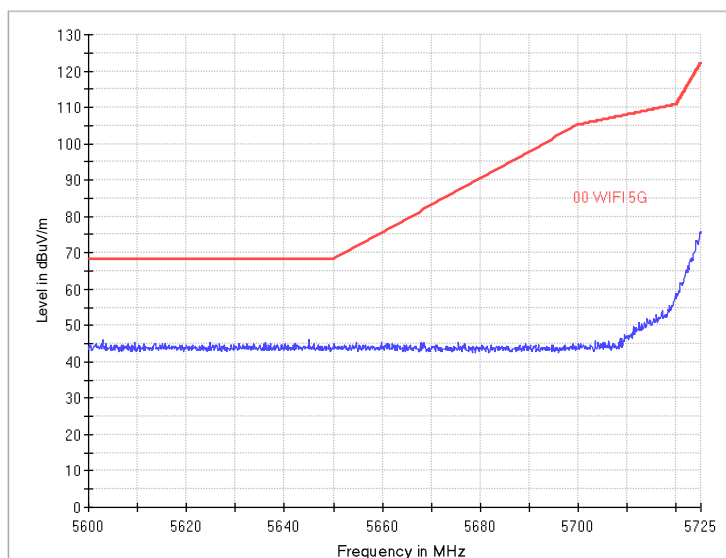


Radiated Emission Band Edge

Channel No.:149

Test Mode: 802.11a

Polarization: V

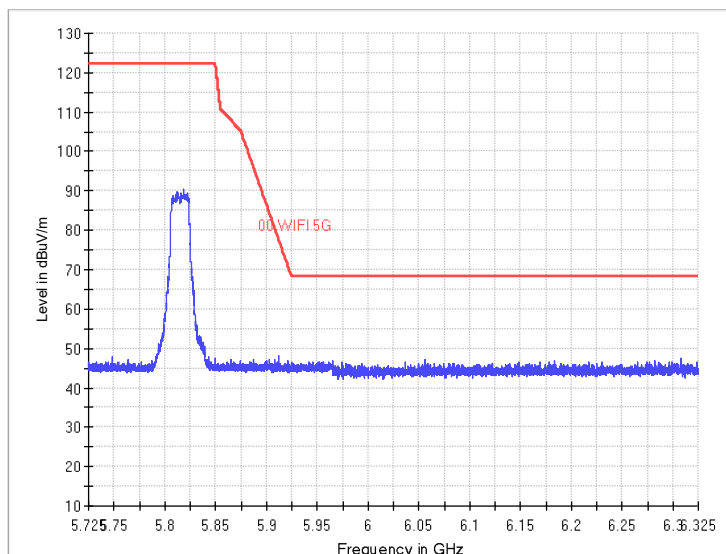


Radiated Emission Band Edge

Channel No.:149

Test Mode: 802.11a

Polarization: H

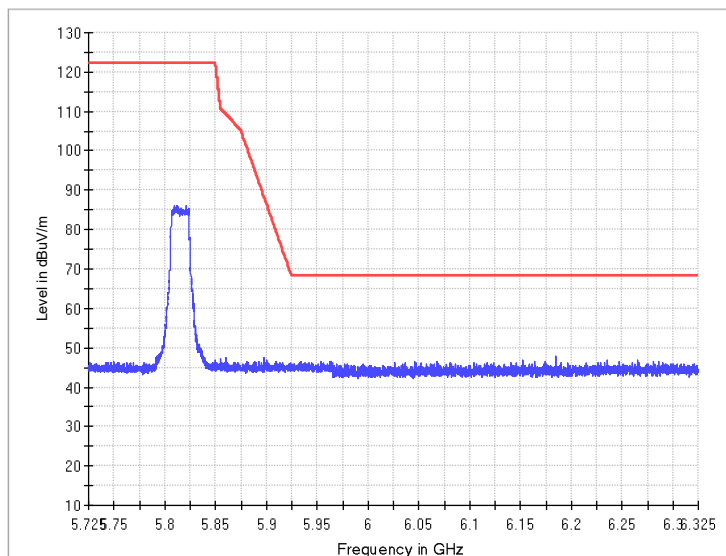


Radiated Emission Band Edge

Channel No.:165

Test Mode: 802.11a

Polarization: V

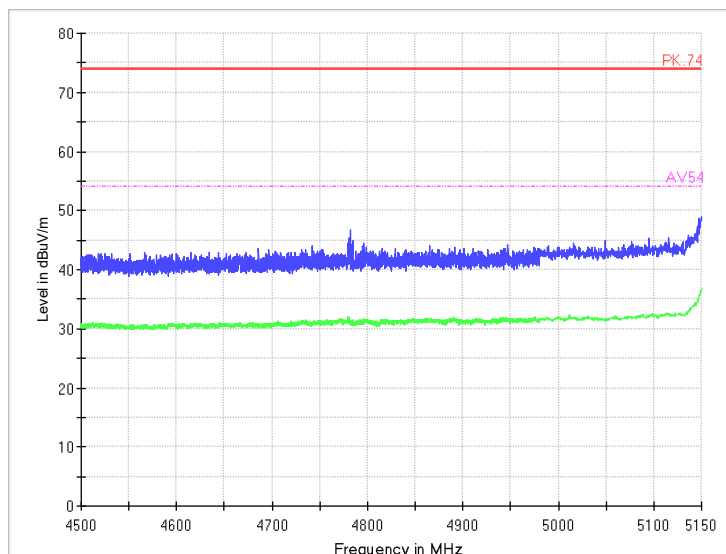


Radiated Emission Band Edge

Channel No.:165

Test Mode: 802.11a

Polarization: H

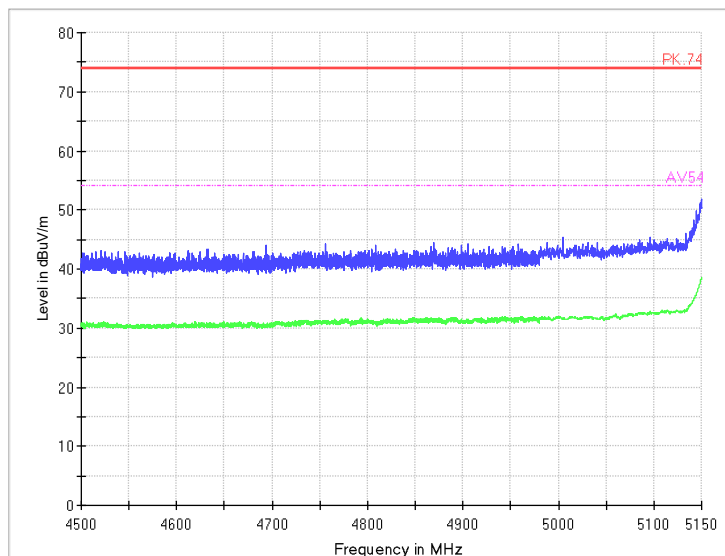


Radiated Emission Band Edge

Channel No.:36

Test Mode: 802.11n

Polarization: V

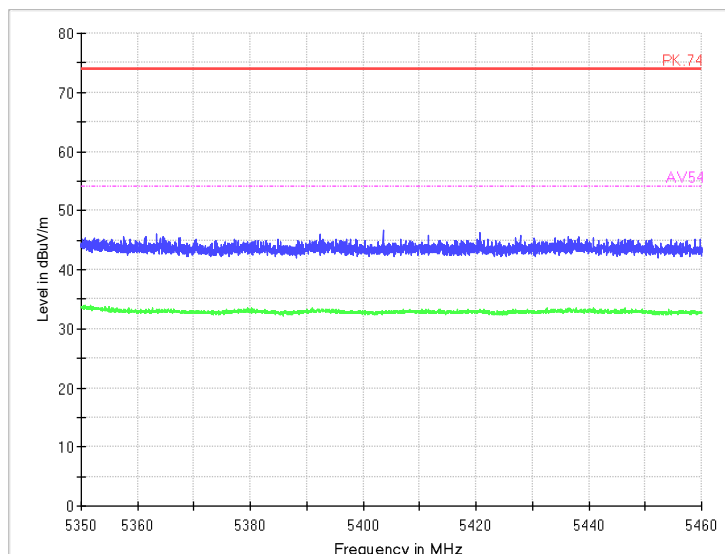


Radiated Emission Band Edge

Channel No.:36

Test Mode: 802.11n

Polarization: H

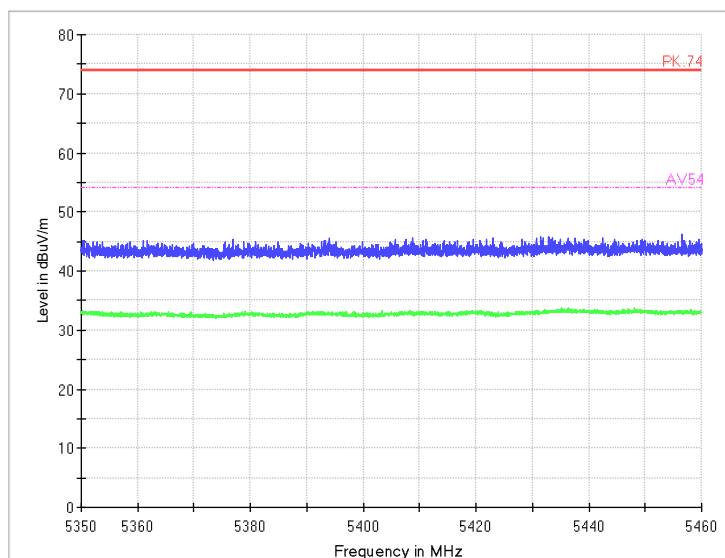


Radiated Emission Band Edge

Channel No.:64

Test Mode: 802.11n

Polarization: V

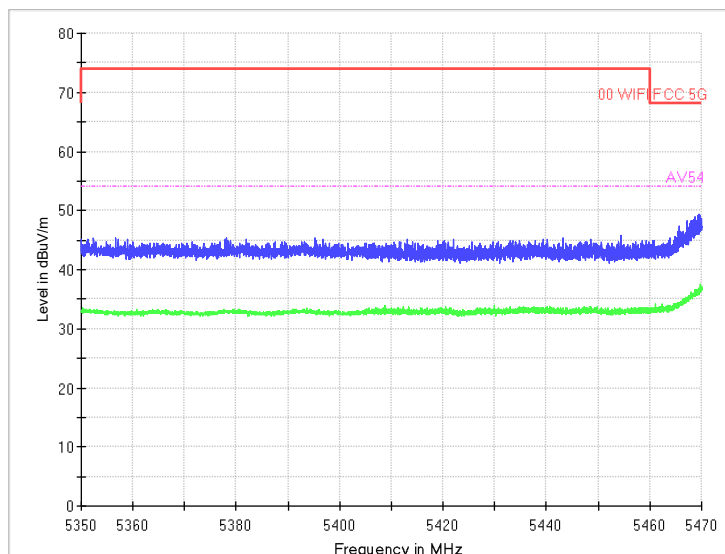


Radiated Emission Band Edge

Channel No.:64

Test Mode: 802.11n

Polarization: H

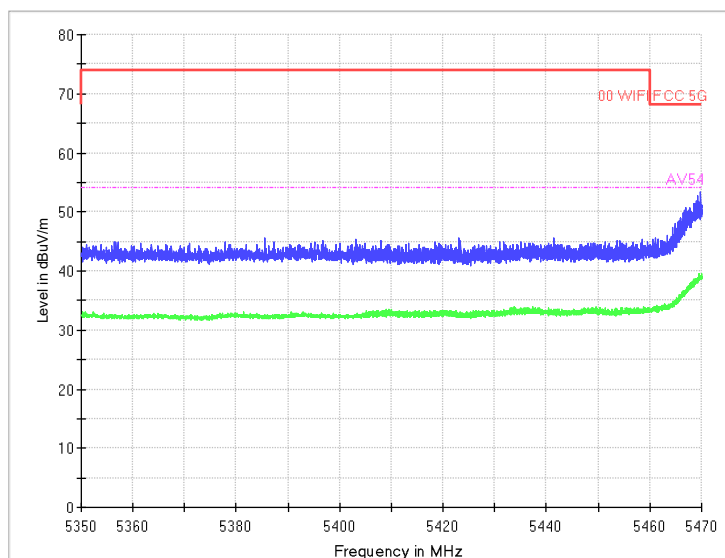


Radiated Emission Band Edge

Channel No.:100

Test Mode: 802.11n

Polarization: V

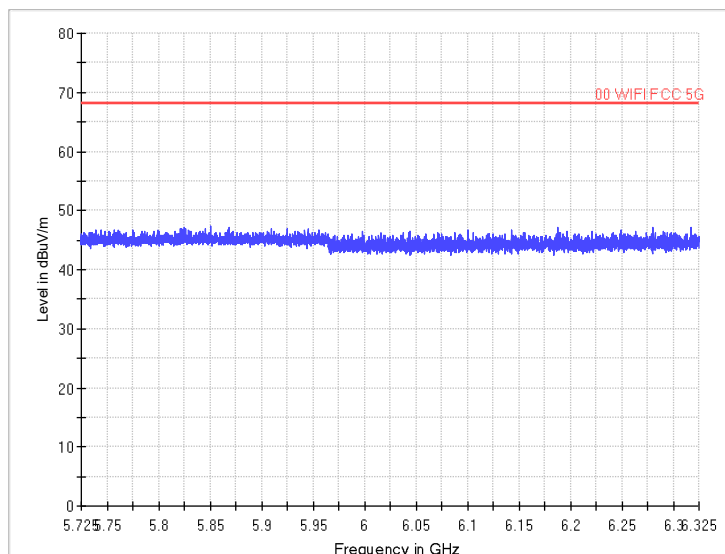


Radiated Emission Band Edge

Channel No.:100

Test Mode: 802.11n

Polarization: H

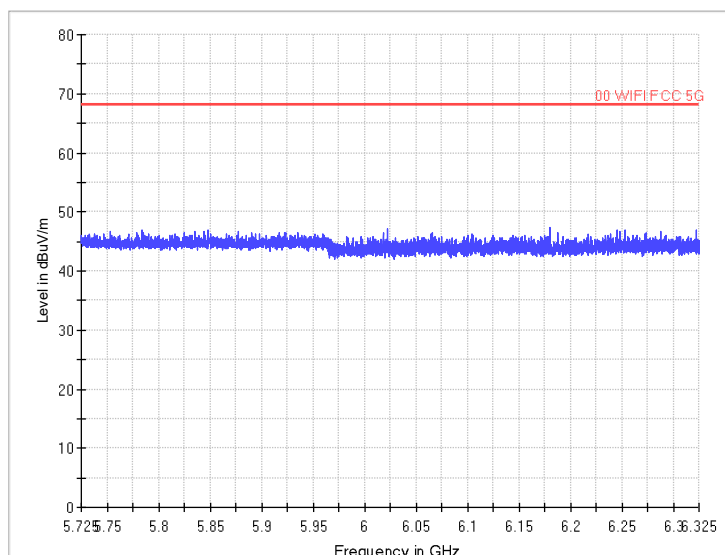


Radiated Emission Band Edge

Channel No.:140

Test Mode: 802.11n

Polarization: V

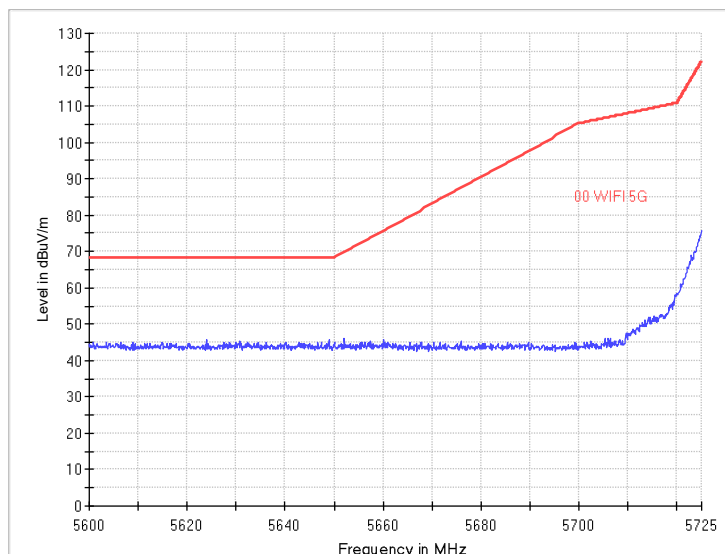


Radiated Emission Band Edge

Channel No.:140

Test Mode: 802.11n

Polarization: H

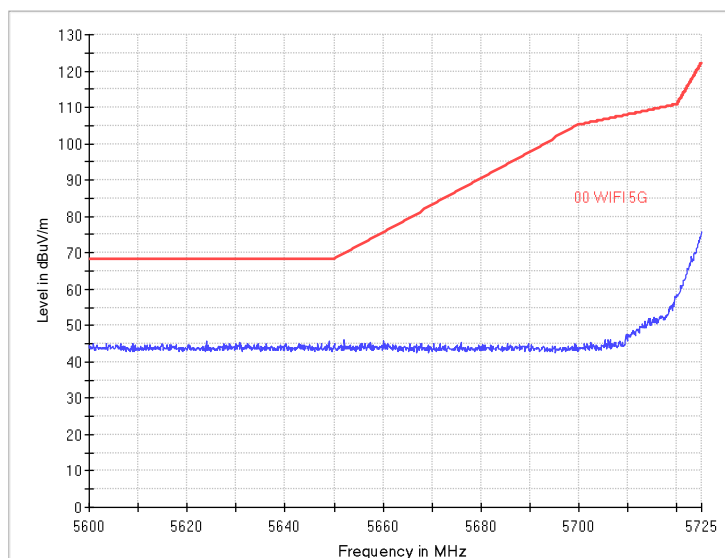


Radiated Emission Band Edge

Channel No.:149

Test Mode: 802.11n

Polarization: V

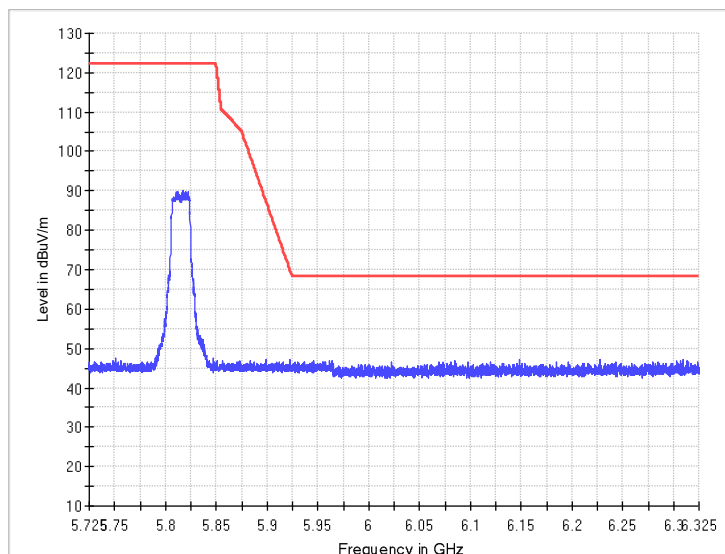


Radiated Emission Band Edge

Channel No.:149

Test Mode: 802.11n

Polarization: H

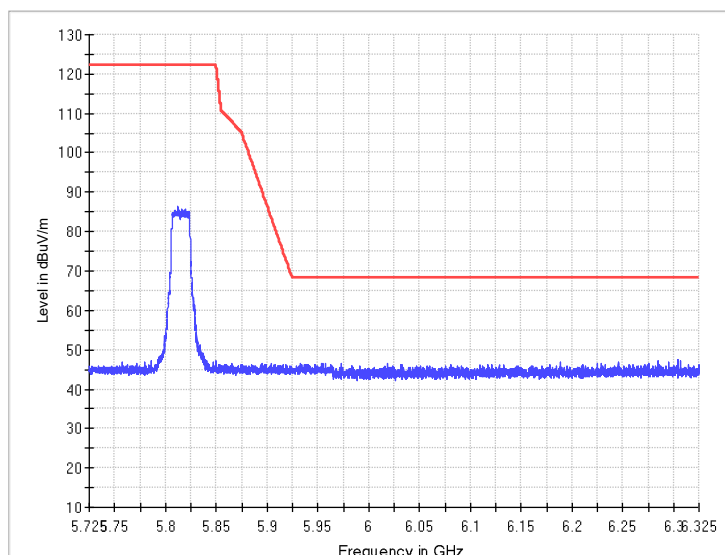


Radiated Emission Band Edge

Channel No.:165

Test Mode: 802.11n

Polarization: V

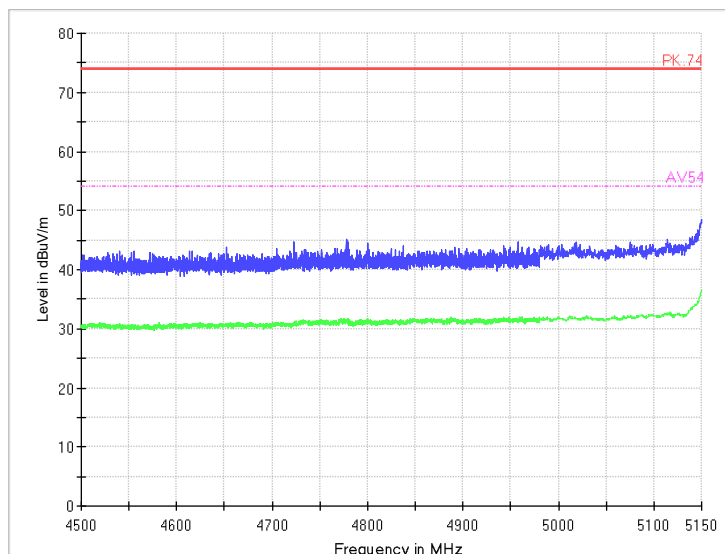


Radiated Emission Band Edge

Channel No.:165

Test Mode: 802.11n

Polarization: H

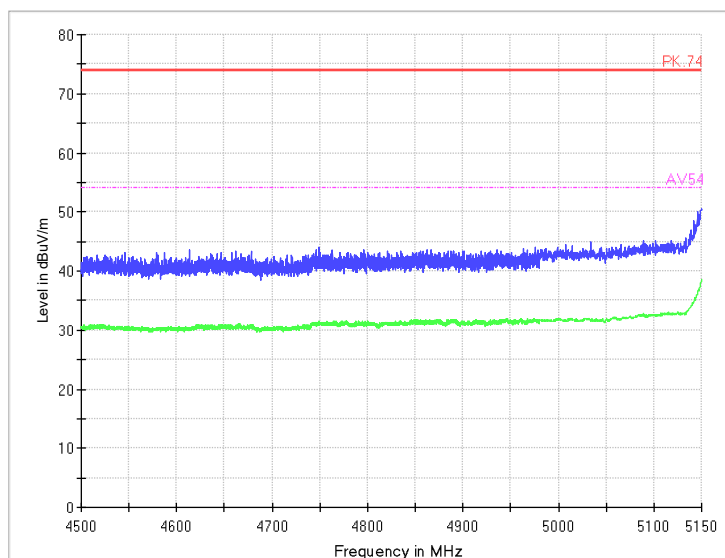


Radiated Emission Band Edge

Channel No.:36

Test Mode: 802.11ac

Polarization: V

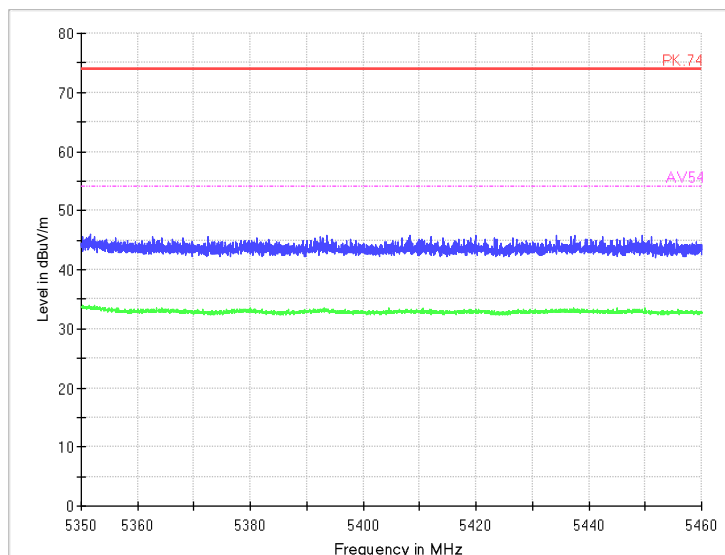


Radiated Emission Band Edge

Channel No.:36

Test Mode: 802.11ac

Polarization: H

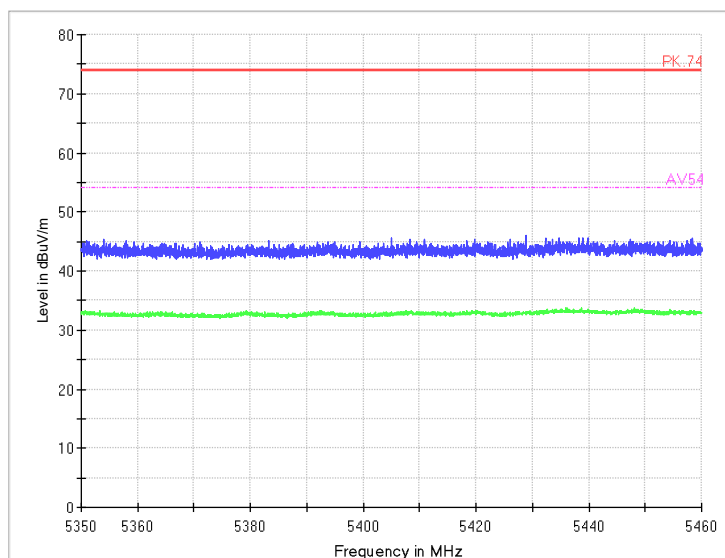


Radiated Emission Band Edge

Channel No.:64

Test Mode: 802.11ac

Polarization: V

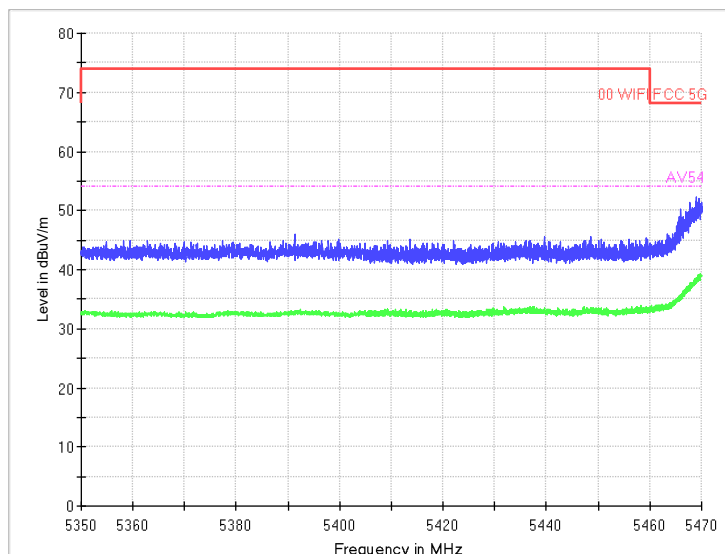


Radiated Emission Band Edge

Channel No.:64

Test Mode: 802.11ac

Polarization: H

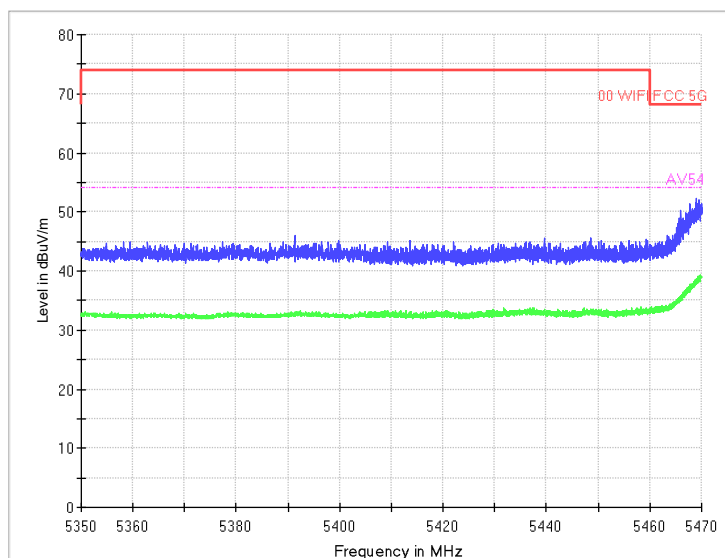


Radiated Emission Band Edge

Channel No.:100

Test Mode: 802.11ac

Polarization: V

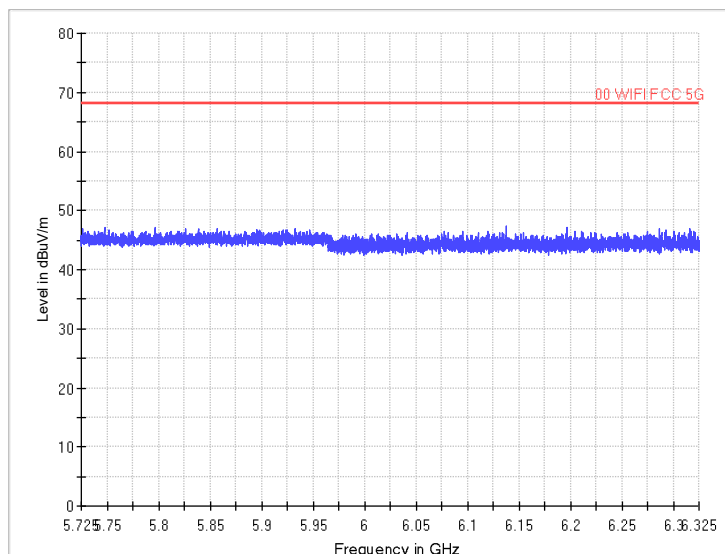


Radiated Emission Band Edge

Channel No.:100

Test Mode: 802.11ac

Polarization: H

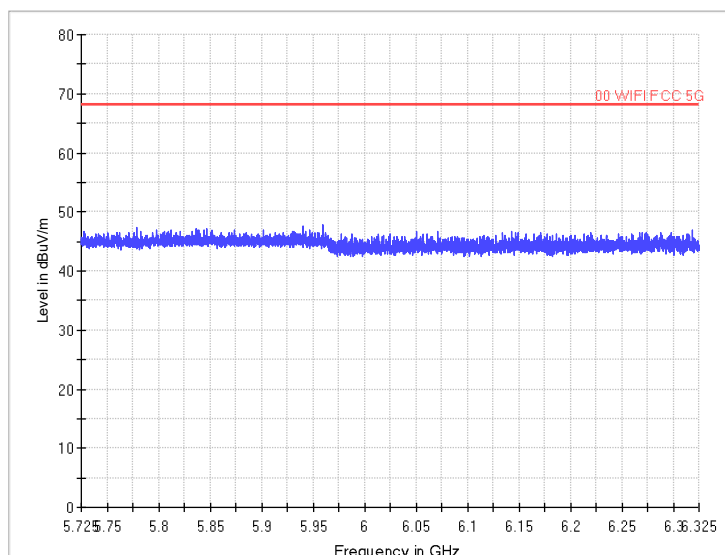


Radiated Emission Band Edge

Channel No.:140

Test Mode: 802.11ac

Polarization: V

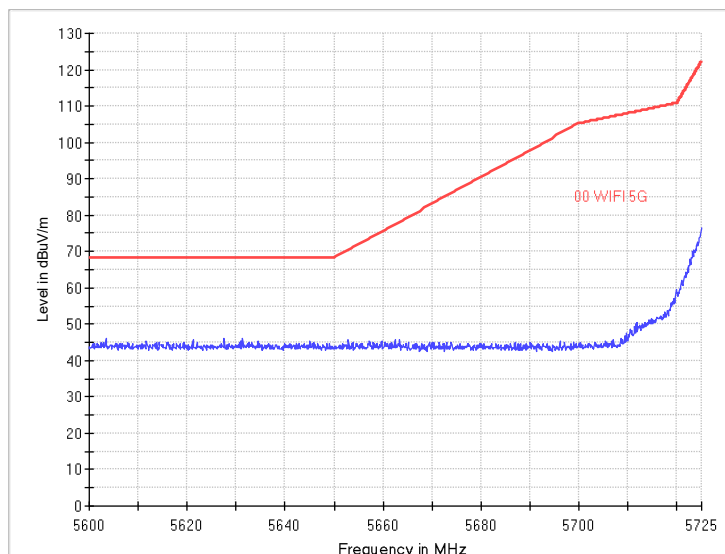


Radiated Emission Band Edge

Channel No.:140

Test Mode: 802.11ac

Polarization: H

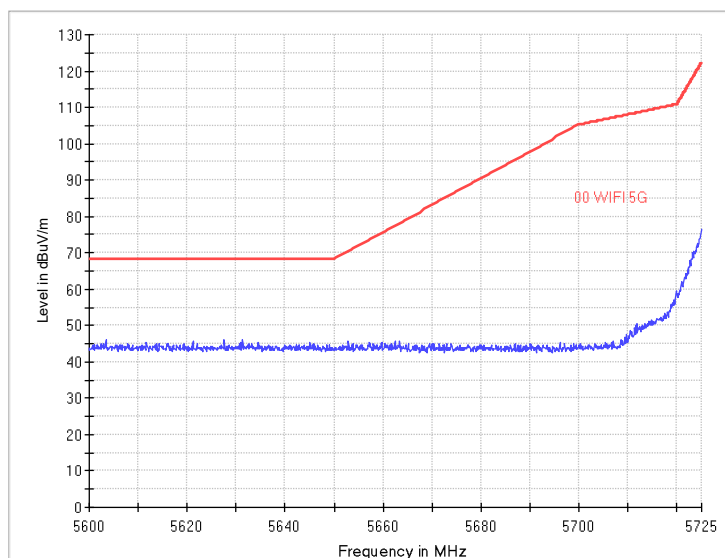


Radiated Emission Band Edge

Channel No.:149

Test Mode: 802.11ac

Polarization: V

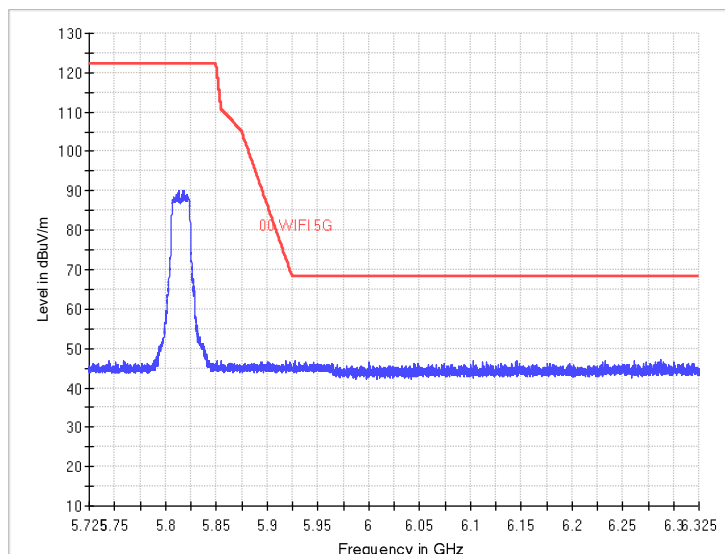


Radiated Emission Band Edge

Channel No.:149

Test Mode: 802.11ac

Polarization: H

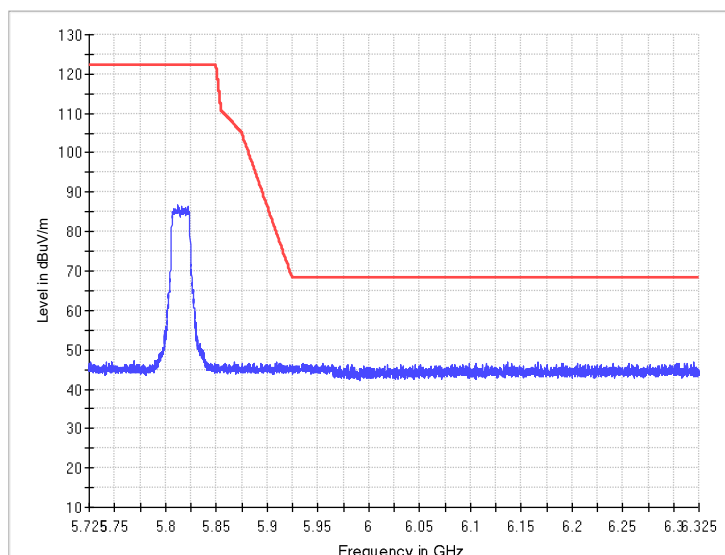


Radiated Emission Band Edge

Channel No.:165

Test Mode: 802.11ac

Polarization: V

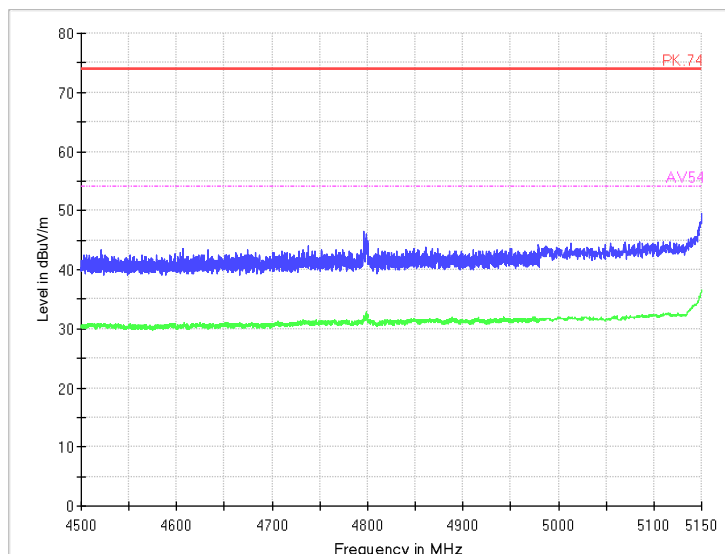


Radiated Emission Band Edge

Channel No.:165

Test Mode: 802.11ac

Polarization: H

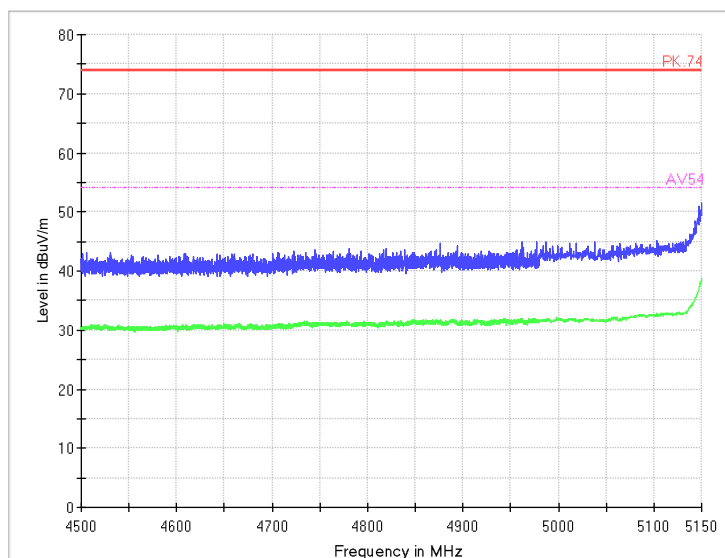


Radiated Emission Band Edge

Channel No.:36

Test Mode: 802.11ax

Polarization: V

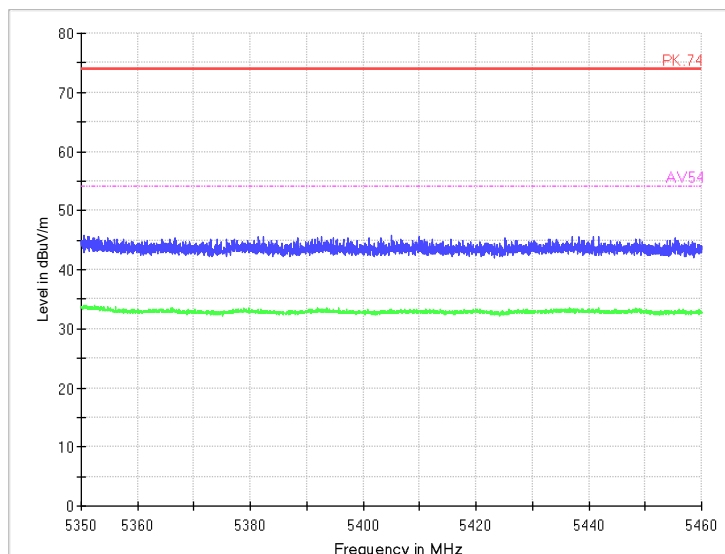


Radiated Emission Band Edge

Channel No.:36

Test Mode: 802.11ax

Polarization: H

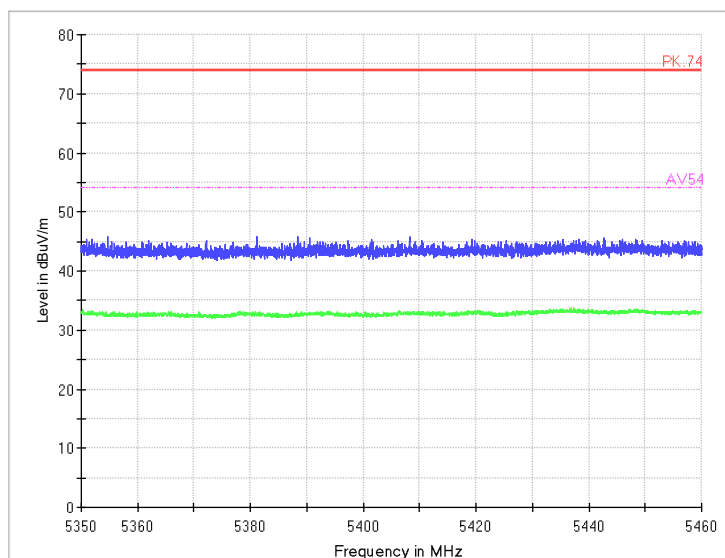


Radiated Emission Band Edge

Channel No.:64

Test Mode: 802.11ax

Polarization: V

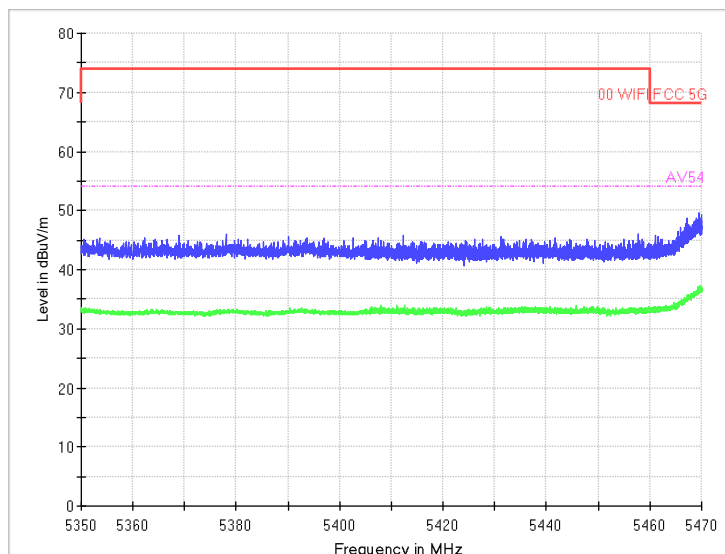


Radiated Emission Band Edge

Channel No.:64

Test Mode: 802.11ax

Polarization: H

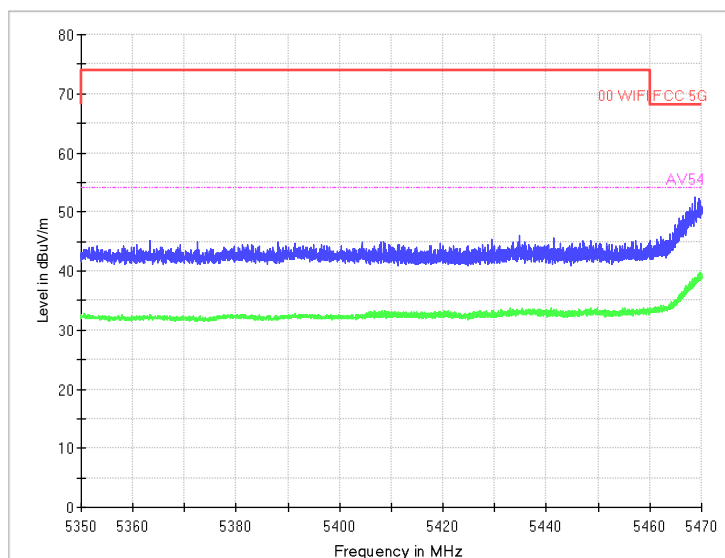


Radiated Emission Band Edge

Channel No.:100

Test Mode: 802.11ax

Polarization: V

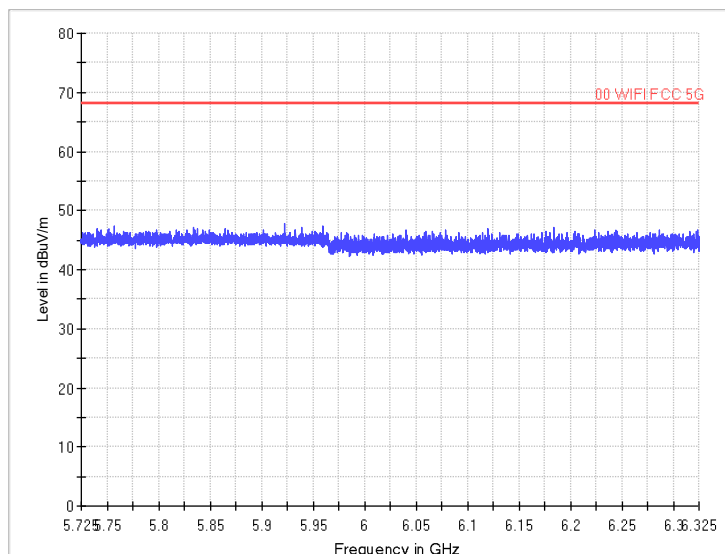


Radiated Emission Band Edge

Channel No.:100

Test Mode: 802.11ax

Polarization: H

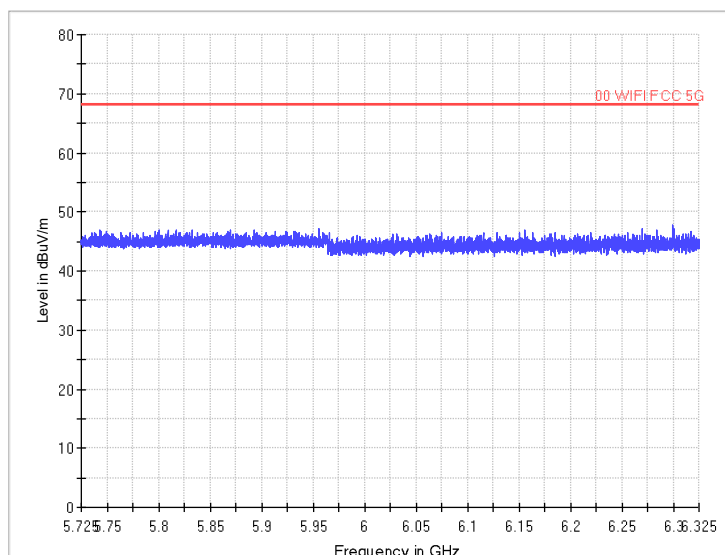


Radiated Emission Band Edge

Channel No.:140

Test Mode: 802.11ax

Polarization: V

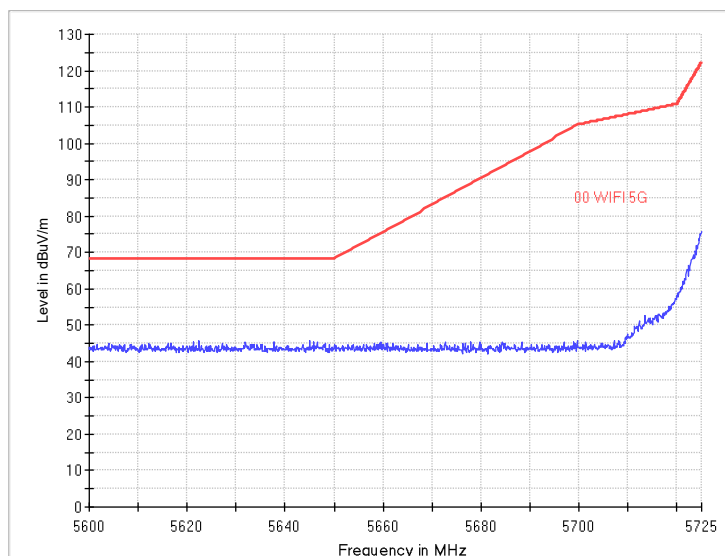


Radiated Emission Band Edge

Channel No.:140

Test Mode: 802.11ax

Polarization: H

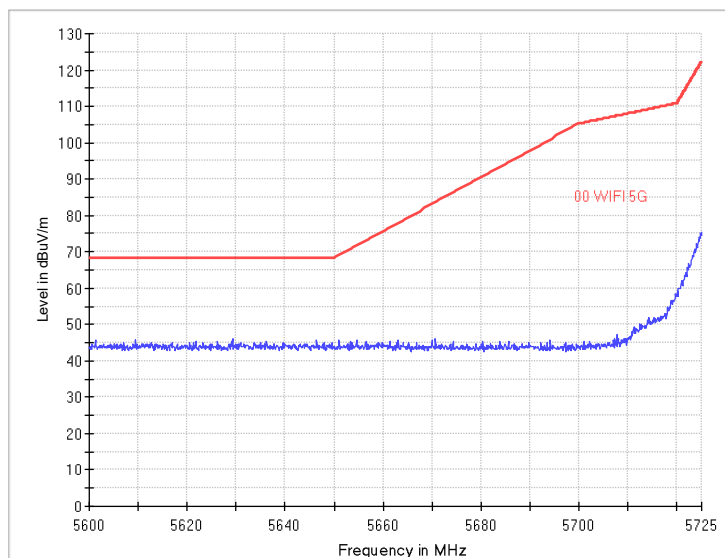


Radiated Emission Band Edge

Channel No.:149

Test Mode: 802.11ax

Polarization: V

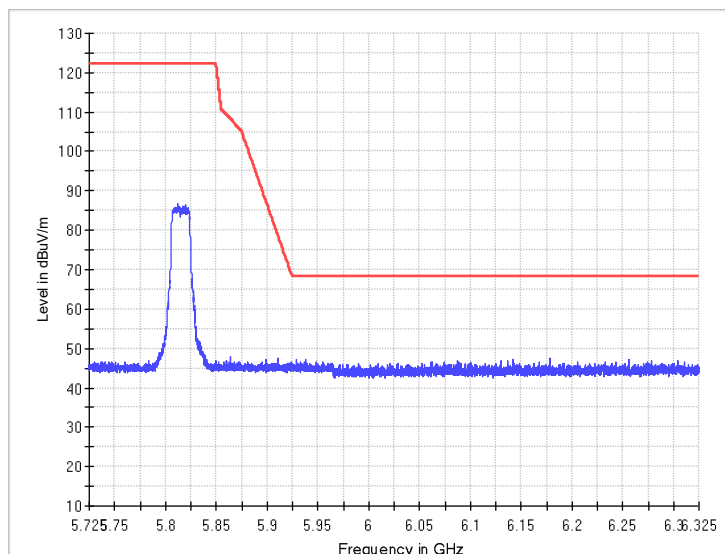


Radiated Emission Band Edge

Channel No.:149

Test Mode: 802.11ax

Polarization: H

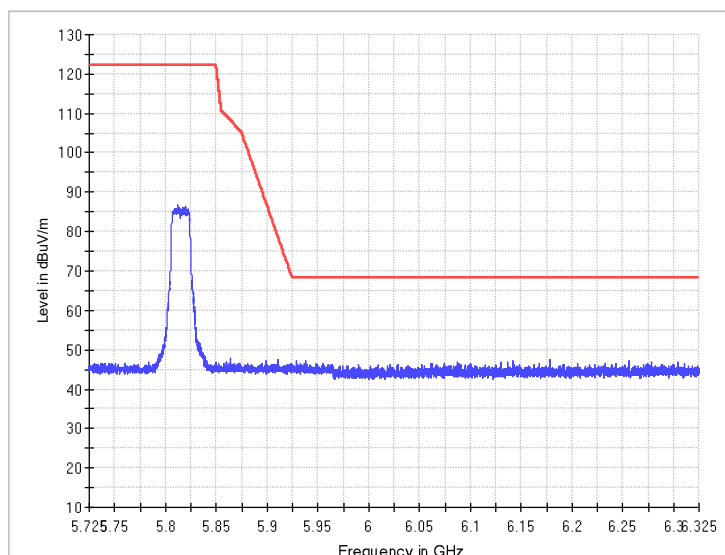


Radiated Emission Band Edge

Channel No.:165

Test Mode: 802.11ax

Polarization: V



Radiated Emission Band Edge

Channel No.:165

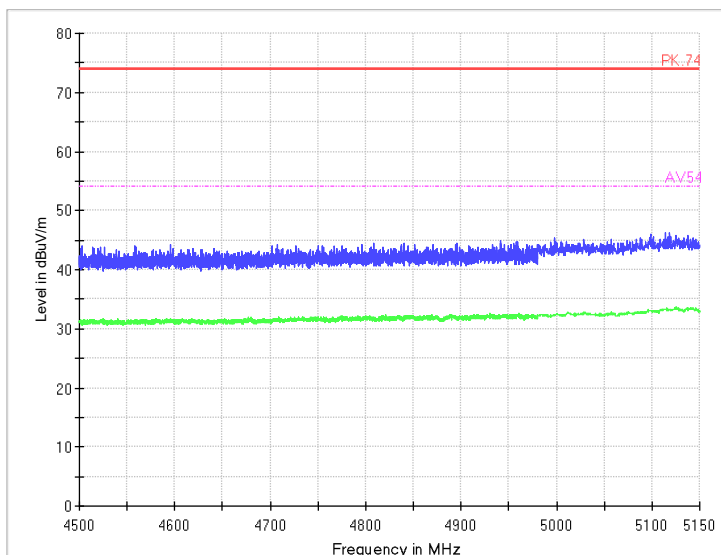
Test Mode: 802.11ax

Polarization: H



20M

Partial RU (Tone26)

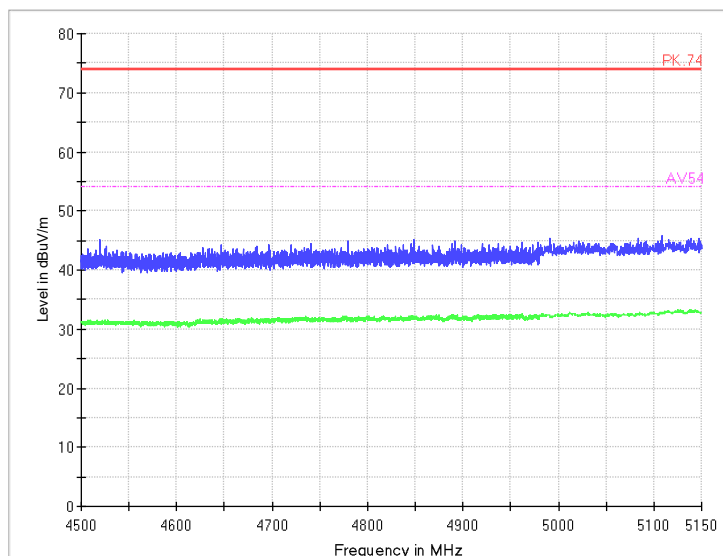


Radiated Emission Band Edge

Channel No.:36

Test Mode: 802.11ax

Polarization: V

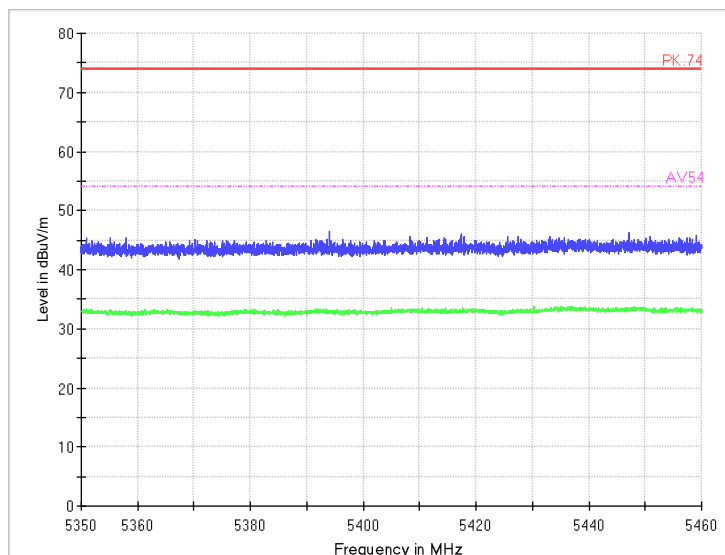


Radiated Emission Band Edge

Channel No.:36

Test Mode: 802.11ax

Polarization: H

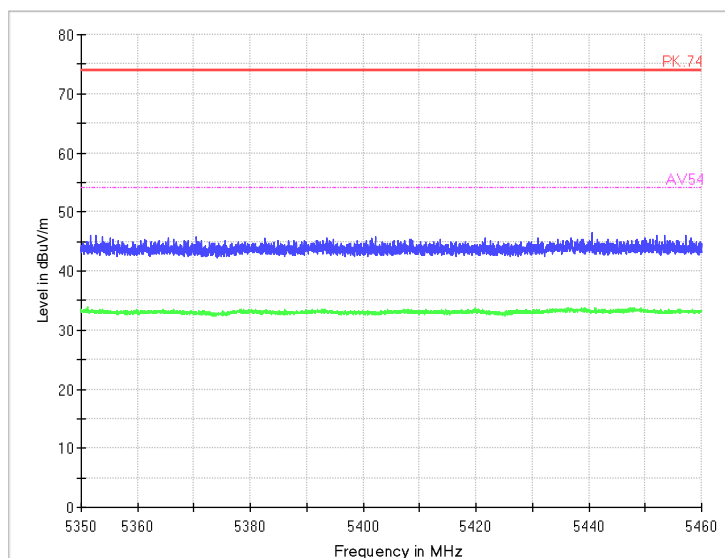


Radiated Emission Band Edge

Channel No.:64

Test Mode: 802.11ax

Polarization: V

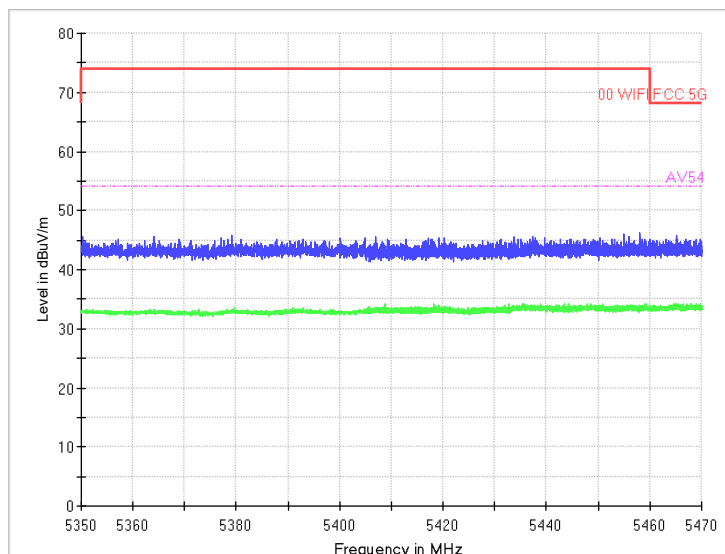


Radiated Emission Band Edge

Channel No.:64

Test Mode: 802.11ax

Polarization: H

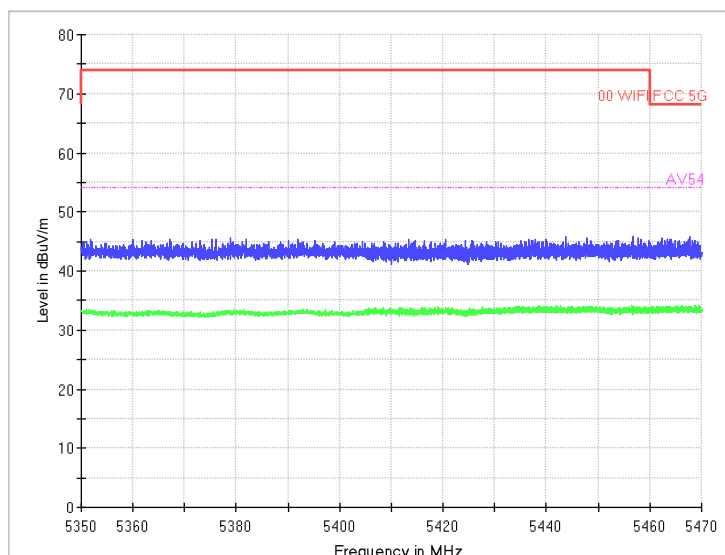


Radiated Emission Band Edge

Channel No.:100

Test Mode: 802.11ax

Polarization: V

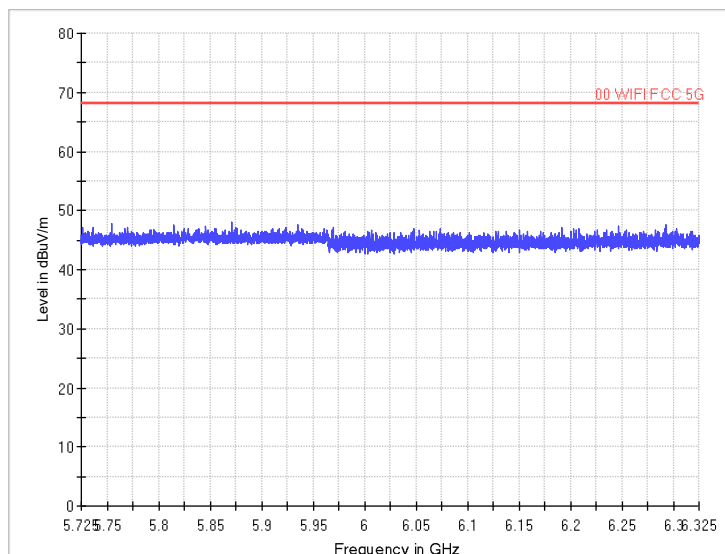


Radiated Emission Band Edge

Channel No.:100

Test Mode: 802.11ax

Polarization: H

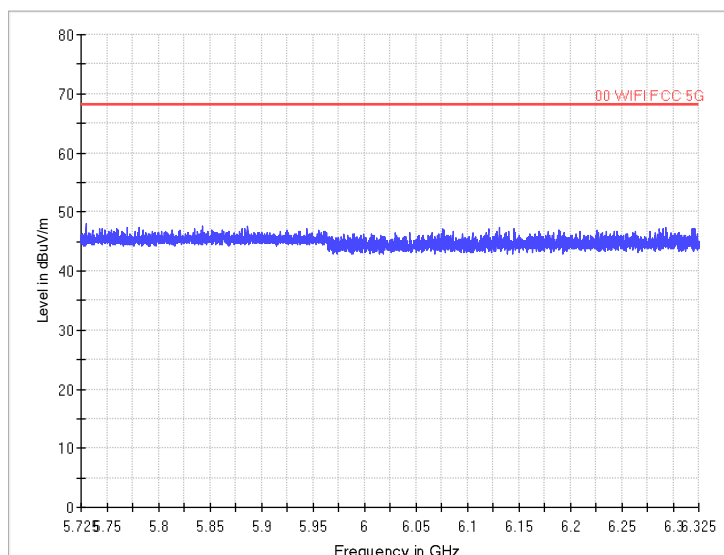


Radiated Emission Band Edge

Channel No.:140

Test Mode: 802.11ax

Polarization: V

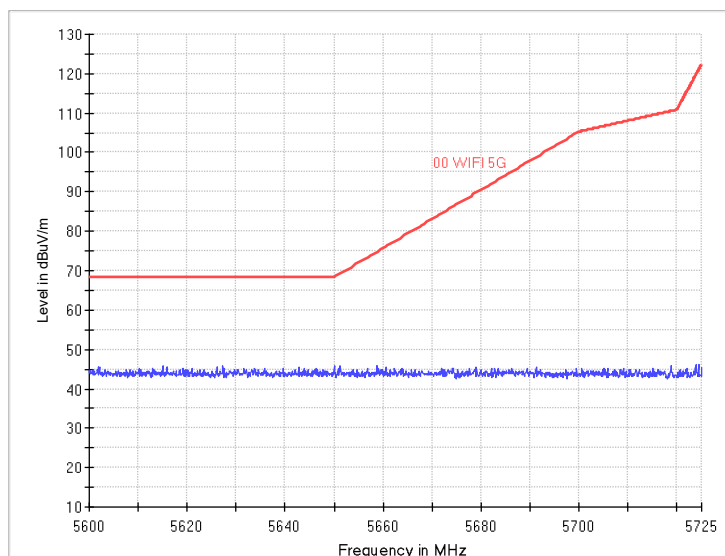


Radiated Emission Band Edge

Channel No.:140

Test Mode: 802.11ax

Polarization: H

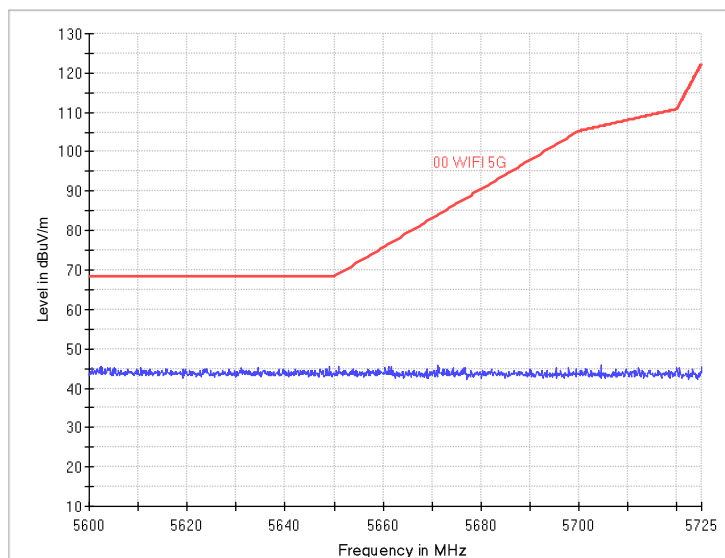


Radiated Emission Band Edge

Channel No.:149

Test Mode: 802.11ax

Polarization: V

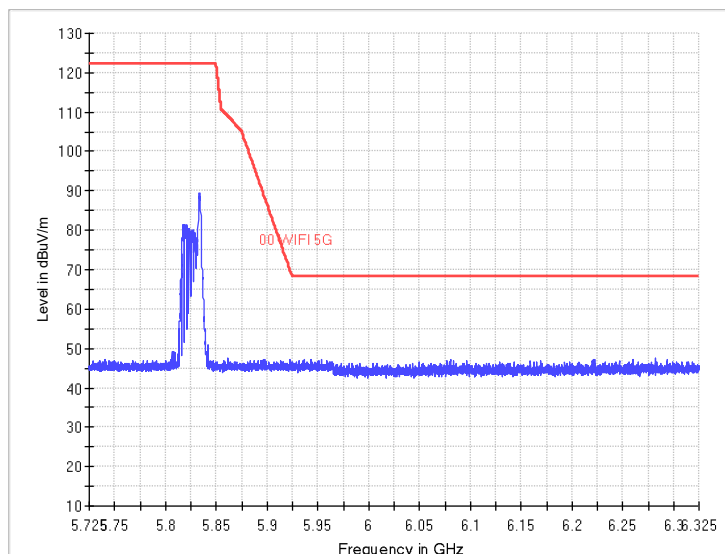


Radiated Emission Band Edge

Channel No.:149

Test Mode: 802.11ax

Polarization: H

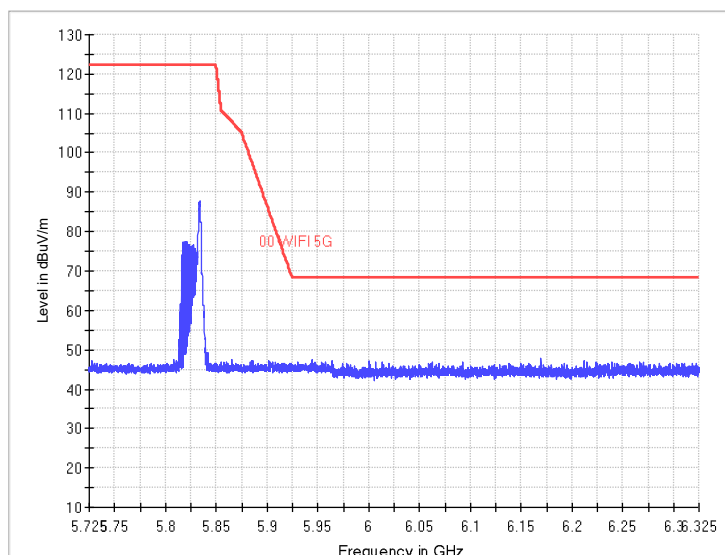


Radiated Emission Band Edge

Channel No.:165

Test Mode: 802.11ax

Polarization: V



Radiated Emission Band Edge

Channel No.:165

Test Mode: 802.11ax

Polarization: H

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:

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

Sample calculation: $(20.02 \text{ dBuV/m}) = (38.22 \text{ dBuV}) + (-18.2 \text{ dB/m})$, the corresponding frequency is 31.843 MHz.

For 802.11a Channel No.: 36

Frequency (MHz)	Result (dBuV/m)	A_{Rpl} (dB)	P_{mea} (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
36.111	20.02	-18.2	38.22	Vertical	40	19.98
77.6755	33.62	-22	55.62	Vertical	40	6.38
117.0575	35.3	-18.6	53.9	Vertical	43.5	8.2
209.159	23.36	-17.2	40.56	Vertical	43.5	20.14
529.3075	16.75	-8.7	25.45	Vertical	46	29.25
900.8175	19.11	-2.5	21.61	Vertical	46	26.89

For 802.11n (HT20) Channel No.: 36

Frequency (MHz)	Result (dBuV/m)	A_{Rpl} (dB)	P_{mea} (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
36.1595	19.61	-18.2	37.81	Vertical	40	20.39
77.53	32.8	-22	54.8	Vertical	40	7.2
117.397	34.68	-18.7	53.38	Vertical	43.5	8.82
209.159	22.57	-17.2	39.77	Vertical	43.5	20.93
512.187	15.88	-9	24.88	Vertical	46	30.12
865.0245	19.21	-2.4	21.61	Vertical	46	26.79

For 802.11ac (VHT20) Channel No.: 36

Frequency (MHz)	Result (dBuV/m)	A_{Rpl} (dB)	P_{mea} (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
35.917	20.02	-18.3	38.32	Vertical	40	19.98



77.821	33.89	-22.1	55.99	Vertical	40	6.11
116.718	34.64	-18.5	53.14	Vertical	43.5	8.86
205.2305	23.04	-17.2	40.24	Vertical	43.5	20.46
521.7415	16.53	-8.7	25.23	Vertical	46	29.47
878.4105	19.47	-2.3	21.77	Vertical	46	26.53

For 802.11ax(HE20)Channel No.:36

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
35.82	19.52	-18.3	37.82	Vertical	40	20.48
77.821	33.59	-22.1	55.69	Vertical	40	6.41
117.009	34.68	-18.6	53.28	Vertical	43.5	8.82
206.7825	22.4	-17.2	39.6	Vertical	43.5	21.1
520.82	16.65	-8.8	25.45	Vertical	46	29.35
917.4045	19.3	-1.9	21.2	Vertical	46	26.7

For 802.11aChannel No.:44

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
35.5775	19.16	-18.4	37.56	Vertical	40	20.84
77.724	34.21	-22	56.21	Vertical	40	5.79
117.009	34.6	-18.6	53.2	Vertical	43.5	8.9
204.988	22.77	-17.1	39.87	Vertical	43.5	20.73
520.238	16.74	-8.8	25.54	Vertical	46	29.26
919.102	19.4	-1.8	21.2	Vertical	46	26.6

For 802.11n(HT20)Channel No.:44

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
36.7415	18.71	-18	36.71	Vertical	40	21.29
77.3845	32.84	-22	54.84	Vertical	40	7.16
116.912	34.99	-18.6	53.59	Vertical	43.5	8.51
205.667	23.11	-17.2	40.31	Vertical	43.5	20.39
519.2195	16.82	-8.8	25.62	Vertical	46	29.18
883.794	19.38	-2.3	21.68	Vertical	46	26.62

For 802.11ac(VHT20)Channel No.:44

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
36.5475	19.17	-18.1	37.27	Vertical	40	20.83
77.724	34.34	-22	56.34	Vertical	40	5.66
117.106	34.43	-18.6	53.03	Vertical	43.5	9.07
213.233	22.28	-17.1	39.38	Vertical	43.5	21.22
521.402	16.48	-8.8	25.28	Vertical	46	29.52
887.0435	19.28	-2.4	21.68	Vertical	46	26.72

For 802.11ax(HE20)Channel No.:44

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
36.0625	19.32	-18.2	37.52	Vertical	40	20.68
77.724	33.54	-22	55.54	Vertical	40	6.46
116.621	34.48	-18.5	52.98	Vertical	43.5	9.02
205.3275	22.99	-17.2	40.19	Vertical	43.5	20.51
518.589	16.75	-8.8	25.55	Vertical	46	29.25
939.2295	19.12	-1.8	20.92	Vertical	46	26.88

For 802.11aChannel No.:48

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
35.8685	19.66	-18.3	37.96	Vertical	40	20.34
77.7725	34.4	-22	56.4	Vertical	40	5.6
117.591	34.07	-18.8	52.87	Vertical	43.5	9.43
209.935	22.67	-17.2	39.87	Vertical	43.5	20.83
520.723	16.62	-8.8	25.42	Vertical	46	29.38
918.5685	19.29	-1.8	21.09	Vertical	46	26.71

For 802.11n(HT20)Channel No.:48

Frequency(MHz)	Result(dBuV/m)	ARpl	Pmea	Polarity	Limit	Margin
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		(dB)	(dBuV/m)		(dBuV/m)	(dB)
35.82	19.27	-18.3	37.57	Vertical	40	20.73
77.239	33.11	-21.9	55.01	Vertical	40	6.89
117.009	34.23	-18.6	52.83	Vertical	43.5	9.27
209.838	22.88	-17.2	40.08	Vertical	43.5	20.62
517.2795	16.42	-8.8	25.22	Vertical	46	29.58
887.286	19.18	-2.4	21.58	Vertical	46	26.82

For 802.11ac(VHT20)Channel No.:48

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
35.7715	18.87	-18.4	37.27	Vertical	40	21.13
77.7725	34.86	-22	56.86	Vertical	40	5.14
117.494	34.29	-18.7	52.99	Vertical	43.5	9.21
209.6925	23.36	-17.2	40.56	Vertical	43.5	20.14
514.903	15.96	-8.9	24.86	Vertical	46	30.04
869.244	19.12	-2.4	21.52	Vertical	46	26.88

For 802.11ax(HE20)Channel No.:48

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
35.7715	18.59	-18.4	36.99	Vertical	40	21.41
77.8695	33.88	-22.1	55.98	Vertical	40	6.12
117.6395	34.38	-18.8	53.18	Vertical	43.5	9.12
209.5955	23.38	-17.2	40.58	Vertical	43.5	20.12
539.25	15.47	-8.7	24.17	Vertical	46	30.53
899.4595	18.98	-2.5	21.48	Vertical	46	27.02

For 802.11aChannel No.:52

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
35.6745	17.87	-18.4	36.27	Vertical	40	22.13
77.724	34.82	-22	56.82	Vertical	40	5.18
116.912	34.55	-18.6	53.15	Vertical	43.5	8.95



209.547	22.99	-17.2	40.19	Vertical	43.5	20.51
518.783	16.54	-8.8	25.34	Vertical	46	29.46
869.341	19.05	-2.4	21.45	Vertical	46	26.95

For 802.11n(HT20)Channel No.:52

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
35.8685	18.58	-18.3	36.88	Vertical	40	21.42
77.724	34.93	-22	56.93	Vertical	40	5.07
117.5425	34.49	-18.7	53.19	Vertical	43.5	9.01
206.5885	22.59	-17.2	39.79	Vertical	43.5	20.91
520.5775	16.3	-8.8	25.1	Vertical	46	29.71
871.572	19.08	-2.4	21.48	Vertical	46	26.92

For 802.11ac(VHT20)Channel No.:52

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
36.1595	17.21	-18.2	35.41	Vertical	40	22.79
77.724	34.37	-22	56.37	Vertical	40	5.63
117.6395	34.02	-18.8	52.82	Vertical	43.5	9.48
209.2075	22.15	-17.2	39.35	Vertical	43.5	21.35
515.097	15.36	-8.9	24.26	Vertical	46	30.64
877.5375	18.74	-2.3	21.04	Vertical	46	27.26

For 802.11ax(HE20)Channel No.:52

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
35.82	18.12	-18.3	36.42	Vertical	40	21.88
77.6755	34.34	-22	56.34	Vertical	40	5.66
117.3485	34.51	-18.7	53.21	Vertical	43.5	8.99
207.316	22.26	-17.2	39.46	Vertical	43.5	21.24
519.559	16.43	-8.8	25.23	Vertical	46	29.57
938.793	19.07	-1.8	20.87	Vertical	46	26.93



For 802.11aChannel No.:60

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
35.82	18.03	-18.3	36.33	Vertical	40	21.97
77.7725	34.72	-22	56.72	Vertical	40	5.28
117.2515	34.46	-18.7	53.16	Vertical	43.5	9.04
204.988	22.49	-17.1	39.59	Vertical	43.5	21.01
517.2795	16.22	-8.8	25.02	Vertical	46	29.78
910.5175	19.19	-2.2	21.39	Vertical	46	26.81

For 802.11n(HT20)Channel No.:60

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
35.917	18.57	-18.3	36.87	Vertical	40	21.43
77.6755	34.3	-22	56.3	Vertical	40	5.7
117.203	34.51	-18.6	53.11	Vertical	43.5	8.99
209.0135	23.18	-17.2	40.38	Vertical	43.5	20.32
517.037	16.34	-8.8	25.14	Vertical	46	29.66
925.892	19.37	-1.7	21.07	Vertical	46	26.63

For 802.11ac(VHT20)Channel No.:60

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
35.7715	17.79	-18.4	36.19	Vertical	40	22.21
77.6755	33.97	-22	55.97	Vertical	40	6.03
117.591	34.19	-18.8	52.99	Vertical	43.5	9.31
210.4685	22.44	-17.2	39.64	Vertical	43.5	21.06
528.5315	15.74	-8.7	24.44	Vertical	46	30.26
883.9395	19.14	-2.3	21.44	Vertical	46	26.86

For 802.11ax(HE20)Channel No.:60

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
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35.7715	14.2	-18.4	32.6	Vertical	40	25.8
77.2875	31.91	-21.9	53.81	Vertical	40	8.09
117.203	32.99	-18.6	51.59	Vertical	43.5	10.51
205.1335	20.77	-17.1	37.87	Vertical	43.5	22.73
520.5775	15.04	-8.8	23.84	Vertical	46	30.96
881.1265	18.26	-2.3	20.56	Vertical	46	27.74

For 802.11aChannel No.:64

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
35.82	17.57	-18.3	35.87	Vertical	40	22.43
77.7725	34.26	-22	56.26	Vertical	40	5.74
117.6395	33.65	-18.8	52.45	Vertical	43.5	9.85
209.3045	22.21	-17.2	39.41	Vertical	43.5	21.29
521.5475	15.53	-8.8	24.33	Vertical	46	30.47
928.123	19.04	-1.7	20.74	Vertical	46	26.96

For 802.11n(HT20)Channel No.:64

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
35.82	16.01	-18.3	34.31	Vertical	40	23.99
77.6755	33.48	-22	55.48	Vertical	40	6.52
117.5425	33.7	-18.7	52.4	Vertical	43.5	9.8
209.4015	23.22	-17.2	40.42	Vertical	43.5	20.28
519.753	15.98	-8.8	24.78	Vertical	46	30.02
898.15	18.96	-2.5	21.46	Vertical	46	27.04

For 802.11ac(VHT20)Channel No.:64

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
49.788	15.88	-15.4	31.28	Vertical	40	24.12
77.7725	34.06	-22	56.06	Vertical	40	5.94
117.106	33.77	-18.6	52.37	Vertical	43.5	9.73
209.4985	22.94	-17.2	40.14	Vertical	43.5	20.56



513.739	15.24	-8.9	24.14	Vertical	46	30.76
899.702	18.81	-2.5	21.31	Vertical	46	27.19

For 802.11ax(HE20)Channel No.:64

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
35.82	17.96	-18.3	36.26	Vertical	40	22.04
77.6755	34.62	-22	56.62	Vertical	40	5.38
117.106	34.43	-18.6	53.03	Vertical	43.5	9.07
209.7895	22.94	-17.2	40.14	Vertical	43.5	20.56
519.5105	15.9	-8.8	24.7	Vertical	46	30.1
929.966	19.22	-1.6	20.82	Vertical	46	26.78

For 802.11aChannel No.:100

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
35.529	13.87	-18.5	32.37	Vertical	40	26.13
77.724	33.52	-22	55.52	Vertical	40	6.48
116.815	33.51	-18.5	52.01	Vertical	43.5	9.99
208.965	22.5	-17.2	39.7	Vertical	43.5	21
511.217	14.7	-9	23.7	Vertical	46	31.3
871.3295	18.8	-2.4	21.2	Vertical	46	27.2

For 802.11n(HT20)Channel No.:100

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
36.2565	16.76	-18.2	34.96	Vertical	40	23.24
77.627	33.64	-22	55.64	Vertical	40	6.36
116.9605	33.8	-18.6	52.4	Vertical	43.5	9.7
209.0135	22.09	-17.2	39.29	Vertical	43.5	21.41
394.6715	16.1	-11.6	27.7	Vertical	46	29.9
864.491	18.97	-2.5	21.47	Vertical	46	27.03



For 802.11ac(VHT20)Channel No.:100

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
36.208	16.93	-18.2	35.13	Vertical	40	23.07
77.724	33.71	-22	55.71	Vertical	40	6.29
117.5425	33.7	-18.7	52.4	Vertical	43.5	9.8
205.182	22.31	-17.1	39.41	Vertical	43.5	21.19
391.8585	15.98	-11.7	27.68	Vertical	46	30.02
877.683	19.17	-2.3	21.47	Vertical	46	26.83

For 802.11ax(HE20)Channel No.:100

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
43.774	15.43	-16	31.43	Vertical	40	24.57
77.724	33.8	-22	55.8	Vertical	40	6.2
117.5425	33.77	-18.7	52.47	Vertical	43.5	9.73
210.808	22.29	-17.2	39.49	Vertical	43.5	21.21
503.6995	14.57	-9.2	23.77	Vertical	46	31.43
818.7555	17.65	-3.5	21.15	Vertical	46	28.35

For 802.11aChannel No.:120

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
49.788	14.81	-15.4	30.21	Vertical	40	25.19
77.5785	32.4	-22	54.4	Vertical	40	7.6
117.106	33.84	-18.6	52.44	Vertical	43.5	9.66
205.7155	21.84	-17.2	39.04	Vertical	43.5	21.66
515	15.22	-8.9	24.12	Vertical	46	30.78
936.368	19.11	-1.8	20.91	Vertical	46	26.89

For 802.11n(HT20)Channel No.:120

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
43.774	15.03	-16	31.03	Vertical	40	24.97
77.724	33.7	-22	55.7	Vertical	40	6.3



117.494	33.6	-18.7	52.3	Vertical	43.5	9.9
208.9165	22.57	-17.2	39.77	Vertical	43.5	20.93
523.439	15.24	-8.7	23.94	Vertical	46	30.76
879.9625	19.09	-2.3	21.39	Vertical	46	26.91

For 802.11ac(VHT20)Channel No.:120

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
43.8225	15.52	-16	31.52	Vertical	40	24.48
77.6755	32.91	-22	54.91	Vertical	40	7.09
117.5425	33.65	-18.7	52.35	Vertical	43.5	9.85
209.7895	22.65	-17.2	39.85	Vertical	43.5	20.85
521.7415	15.33	-8.7	24.03	Vertical	46	30.67
930.1115	19.18	-1.6	20.78	Vertical	46	26.82

For 802.11ax(HE20)Channel No.:120

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
43.0465	15.97	-16.3	32.27	Vertical	40	24.03
77.6755	33.32	-22	55.32	Vertical	40	6.68
117.3485	33.62	-18.7	52.32	Vertical	43.5	9.88
211.2445	22.04	-17.2	39.24	Vertical	43.5	21.46
524.5545	14.97	-8.7	23.67	Vertical	46	31.03
888.4985	19	-2.4	21.4	Vertical	46	27

For 802.11aChannel No.:140

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
49.8365	15.49	-15.4	30.89	Vertical	40	24.51
77.724	32.84	-22	54.84	Vertical	40	7.16
117.106	33.68	-18.6	52.28	Vertical	43.5	9.82
204.6	21.08	-17.1	38.18	Vertical	43.5	22.42
531.2475	14.71	-8.6	23.31	Vertical	46	31.29
918.811	19.16	-1.8	20.96	Vertical	46	26.84



For 802.11n(HT20)Channel No.:140

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
49.8365	15.77	-15.4	31.17	Vertical	40	24.23
77.7725	32.73	-22	54.73	Vertical	40	7.27
117.5425	32.75	-18.7	51.45	Vertical	43.5	10.75
205.182	21.17	-17.1	38.27	Vertical	43.5	22.33
524.312	14.49	-8.7	23.19	Vertical	46	31.51
864.2	18.47	-2.5	20.97	Vertical	46	27.53

For 802.11ac(VHT20)Channel No.:140

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
42.5615	14.07	-16.3	30.37	Vertical	40	25.93
77.6755	31.79	-22	53.79	Vertical	40	8.21
117.009	32.9	-18.6	51.5	Vertical	43.5	10.6
205.1335	21.12	-17.1	38.22	Vertical	43.5	22.38
521.887	14.58	-8.7	23.28	Vertical	46	31.42
884.085	18.81	-2.3	21.11	Vertical	46	27.19

For 802.11ax(HE20)Channel No.:140

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
49.8365	15.82	-15.4	31.22	Vertical	40	24.18
77.724	32.57	-22	54.57	Vertical	40	7.43
117.203	32.93	-18.6	51.53	Vertical	43.5	10.57
205.279	21.3	-17.2	38.5	Vertical	43.5	22.2
508.7435	14.18	-9.1	23.28	Vertical	46	31.82
894.5125	18.78	-2.5	21.28	Vertical	46	27.22

For 802.11aChannel No.:149

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
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49.788	14.22	-15.4	29.62	Vertical	40	25.78
77.7725	32.21	-22	54.21	Vertical	40	7.79
117.0575	32.78	-18.6	51.38	Vertical	43.5	10.72
210.1775	21.41	-17.2	38.61	Vertical	43.5	22.09
546.6705	14.39	-8.4	22.79	Vertical	46	31.61
931.615	19.25	-1.7	20.95	Vertical	46	26.75

For 802.11n(HT20)Channel No.:149

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
49.885	15.03	-15.4	30.43	Vertical	40	24.97
77.627	31.43	-22	53.43	Vertical	40	8.57
117.0575	32.85	-18.6	51.45	Vertical	43.5	10.65
210.129	21.11	-17.2	38.31	Vertical	43.5	22.39
509.374	14.18	-9.1	23.28	Vertical	46	31.82
858.4285	17.97	-2.8	20.77	Vertical	46	28.03

For 802.11ac(VHT20)Channel No.:149

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
49.788	14.66	-15.4	30.06	Vertical	40	25.34
77.6755	31.94	-22	53.94	Vertical	40	8.06
117.009	32.95	-18.6	51.55	Vertical	43.5	10.55
209.741	21.33	-17.2	38.53	Vertical	43.5	22.17
555.3035	14.29	-8.1	22.39	Vertical	46	31.71
874.579	18.66	-2.3	20.96	Vertical	46	27.34

For 802.11ax(HE20)Channel No.:149

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
42.125	13.8	-16.4	30.2	Vertical	40	26.2
77.724	32.78	-22	54.78	Vertical	40	7.22
117.106	32.94	-18.6	51.54	Vertical	43.5	10.56
206.8795	21.01	-17.2	38.21	Vertical	43.5	22.49
516.7945	14.66	-8.8	23.46	Vertical	46	31.34



890.002	18.62	-2.5	21.12	Vertical	46	27.38
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For 802.11aChannel No.:157

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
49.788	15.39	-15.4	30.79	Vertical	40	24.61
77.6755	32.06	-22	54.06	Vertical	40	7.94
117.106	32.96	-18.6	51.56	Vertical	43.5	10.54
205.0365	21.15	-17.1	38.25	Vertical	43.5	22.35
516.2125	14.66	-8.9	23.56	Vertical	46	31.34
938.9385	19.09	-1.8	20.89	Vertical	46	26.91

For 802.11n(HT20)Channel No.:157

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
49.788	14.6	-15.4	30	Vertical	40	25.4
77.627	31.54	-22	53.54	Vertical	40	8.46
117.5425	32.98	-18.7	51.68	Vertical	43.5	10.52
209.159	21.61	-17.2	38.81	Vertical	43.5	21.89
551.3265	14.66	-8.2	22.86	Vertical	46	31.35
936.562	19.14	-1.8	20.94	Vertical	46	26.86

For 802.11ac(VHT20)Channel No.:157

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
41.9795	13.47	-16.4	29.87	Vertical	40	26.53
77.5785	31.5	-22	53.5	Vertical	40	8.5
117.0575	32.94	-18.6	51.54	Vertical	43.5	10.56
205.3275	21.38	-17.2	38.58	Vertical	43.5	22.12
521.79	14.54	-8.7	23.24	Vertical	46	31.46
920.4115	19.29	-1.7	20.99	Vertical	46	26.71

For 802.11ax(HE20)Channel No.:157



Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
49.8365	15.83	-15.4	31.23	Vertical	40	24.17
77.6755	32.09	-22	54.09	Vertical	40	7.91
117.009	32.94	-18.6	51.54	Vertical	43.5	10.56
210.3715	21.13	-17.2	38.33	Vertical	43.5	22.37
515.582	14.55	-8.9	23.45	Vertical	46	31.45
912.118	18.98	-2.1	21.08	Vertical	46	27.02

For 802.11aChannel No.:165

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
45.4715	12.33	-15.7	28.03	Vertical	40	27.67
79.664	29.29	-22.2	51.49	Vertical	40	10.71
117.106	32.89	-18.6	51.49	Vertical	43.5	10.61
206.1035	21.19	-17.2	38.39	Vertical	43.5	22.31
517.522	14.73	-8.8	23.53	Vertical	46	31.27
917.3075	19.15	-1.9	21.05	Vertical	46	26.85

For 802.11n(HT20)Channel No.:165

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
49.788	15.18	-15.4	30.58	Vertical	40	24.82
77.7725	32.54	-22	54.54	Vertical	40	7.46
117.0575	32.93	-18.6	51.53	Vertical	43.5	10.57
209.644	21.39	-17.2	38.59	Vertical	43.5	22.12
522.275	14.52	-8.7	23.22	Vertical	46	31.48
921.0905	19.23	-1.7	20.93	Vertical	46	26.77

For 802.11ac(VHT20)Channel No.:165

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
36.2565	12.91	-18.2	31.11	Vertical	40	27.09



77.7725	31.81	-22	53.81	Vertical	40	8.19
117.009	34.08	-18.6	52.68	Vertical	43.5	9.42
205.182	21.3	-17.1	38.4	Vertical	43.5	22.2
516.455	14.93	-8.9	23.83	Vertical	46	31.07
915.0765	19.13	-2	21.13	Vertical	46	26.87

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	12.47	-18.1	30.57	Vertical	40	27.53
77.627	31.54	-22	53.54	Vertical	40	8.46
117.106	32.95	-18.6	51.55	Vertical	43.5	10.55
209.0135	21.33	-17.2	38.53	Vertical	43.5	22.17
507.919	14.14	-9.1	23.24	Vertical	46	31.86
937.338	19.08	-1.8	20.88	Vertical	46	26.92

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)
44.3075	9.8	-15.9	25.7	Vertical	40	30.2
77.724	31.72	-22	53.72	Vertical	40	8.28
117.591	32.2	-18.8	51	Vertical	43.5	11.3
209.9835	20.63	-17.2	37.83	Vertical	43.5	22.87
522.081	13.83	-8.7	22.53	Vertical	46	32.17
925.8435	18.65	-1.7	20.35	Vertical	46	27.35

For 802.11ax(HE20)Channel No.:44

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
49.8365	15.28	-15.4	30.68	Vertical	40	24.72
77.627	32.03	-22	54.03	Vertical	40	7.97
117.494	32.83	-18.7	51.53	Vertical	43.5	10.67
208.6255	21.21	-17.2	38.41	Vertical	43.5	22.29
516.843	14.66	-8.8	23.46	Vertical	46	31.34
935.5435	18.99	-1.8	20.79	Vertical	46	27.01

For 802.11ax(HE20)Channel No.:48

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
35.82	13.04	-18.3	31.34	Vertical	40	26.96
77.6755	32.23	-22	54.23	Vertical	40	7.77
117.3485	32.9	-18.7	51.6	Vertical	43.5	10.6
209.1105	21.58	-17.2	38.78	Vertical	43.5	21.92
521.208	14.73	-8.8	23.53	Vertical	46	31.27
926.4255	19.26	-1.7	20.96	Vertical	46	26.74

For 802.11ax(HE20)Channel No.:52

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
49.788	14.78	-15.4	30.18	Vertical	40	25.22



77.6755	32.32	-22	54.32	Vertical	40	7.68
117.494	32.81	-18.7	51.51	Vertical	43.5	10.69
208.4315	21.16	-17.2	38.36	Vertical	43.5	22.34
553.315	14.64	-8.1	22.74	Vertical	46	31.36
937.3865	19.15	-1.8	20.95	Vertical	46	26.85

For 802.11ax(HE20)Channel No.:60

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
49.788	15.73	-15.4	31.13	Vertical	40	24.27
77.724	32.47	-22	54.47	Vertical	40	7.53
117.1545	32.95	-18.6	51.55	Vertical	43.5	10.55
209.6925	21.39	-17.2	38.59	Vertical	43.5	22.11
519.6075	14.85	-8.8	23.65	Vertical	46	31.15
879.0895	18.8	-2.3	21.1	Vertical	46	27.2

For 802.11ax(HE20)Channel No.:64

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
49.8365	15.81	-15.4	31.21	Vertical	40	24.19
77.724	32.78	-22	54.78	Vertical	40	7.22
117.4455	32.82	-18.7	51.52	Vertical	43.5	10.68
210.1775	21.32	-17.2	38.52	Vertical	43.5	22.18
551.0355	14.65	-8.2	22.85	Vertical	46	31.35
954.604	18.53	-2.2	20.73	Vertical	46	27.47

For 802.11ax(HE20)Channel No.:100

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
49.788	15.09	-15.4	30.49	Vertical	40	24.91
77.5785	31.47	-22	53.47	Vertical	40	8.53
117.2515	32.95	-18.7	51.65	Vertical	43.5	10.55
209.4015	21.64	-17.2	38.84	Vertical	43.5	21.86
507.919	14.23	-9.1	23.33	Vertical	46	31.77
928.705	19.23	-1.6	20.83	Vertical	46	26.77



For 802.11ax(HE20)Channel No.:120

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
49.8365	15.52	-15.4	30.92	Vertical	40	24.48
77.6755	32.14	-22	54.14	Vertical	40	7.86
116.9605	32.88	-18.6	51.48	Vertical	43.5	10.62
204.9395	21.24	-17.1	38.34	Vertical	43.5	22.26
512.9145	14.49	-9	23.49	Vertical	46	31.51
919.102	19.21	-1.8	21.01	Vertical	46	26.79

For 802.11ax(HE20)Channel No.:140

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
49.8365	15.36	-15.4	30.76	Vertical	40	24.64
77.724	32.05	-22	54.05	Vertical	40	7.95
117.5425	32.72	-18.7	51.42	Vertical	43.5	10.78
209.1105	21.81	-17.2	39.01	Vertical	43.5	21.69
519.0255	15.23	-8.8	24.03	Vertical	46	30.77
904.552	18.75	-2.5	21.25	Vertical	46	27.25

For 802.11ax(HE20)Channel No.:149

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
49.788	15.14	-15.4	30.54	Vertical	40	24.86
77.3845	31.43	-22	53.43	Vertical	40	8.57
117.4455	32.85	-18.7	51.55	Vertical	43.5	10.65
207.51	21.03	-17.2	38.23	Vertical	43.5	22.47
517.4735	14.72	-8.8	23.52	Vertical	46	31.28
882.339	18.91	-2.3	21.21	Vertical	46	27.09

For 802.11ax(HE20)Channel No.:157

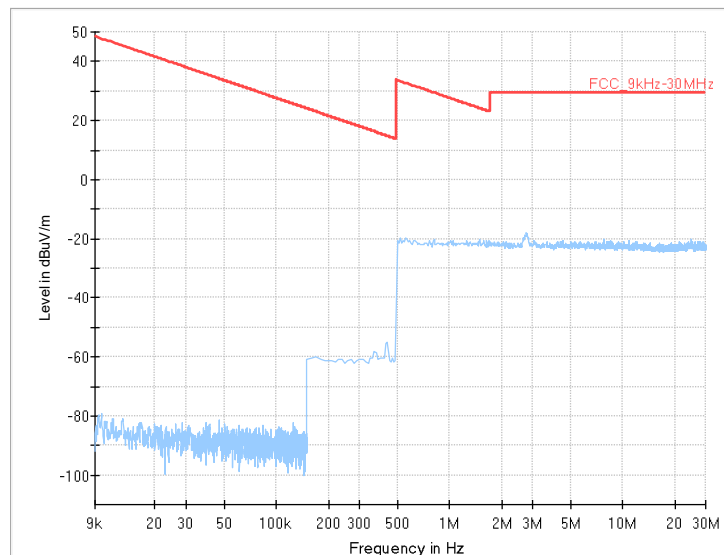
Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
41.931	13.4	-16.4	29.8	Vertical	40	26.6
77.724	32.75	-22	54.75	Vertical	40	7.25



117.5425	32.97	-18.7	51.67	Vertical	43.5	10.53
209.1105	21.64	-17.2	38.84	Vertical	43.5	21.86
519.171	14.87	-8.8	23.67	Vertical	46	31.13
943.3035	18.82	-2	20.82	Vertical	46	27.18

For 802.11ax(HE20)Channel No.:165

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
49.788	15.32	-15.4	30.72	Vertical	40	24.68
77.724	32.77	-22	54.77	Vertical	40	7.23
117.4455	32.84	-18.7	51.54	Vertical	43.5	10.66
209.1105	21.58	-17.2	38.78	Vertical	43.5	21.92
517.328	14.76	-8.8	23.56	Vertical	46	31.24
916.6285	19.18	-1.9	21.08	Vertical	46	26.82

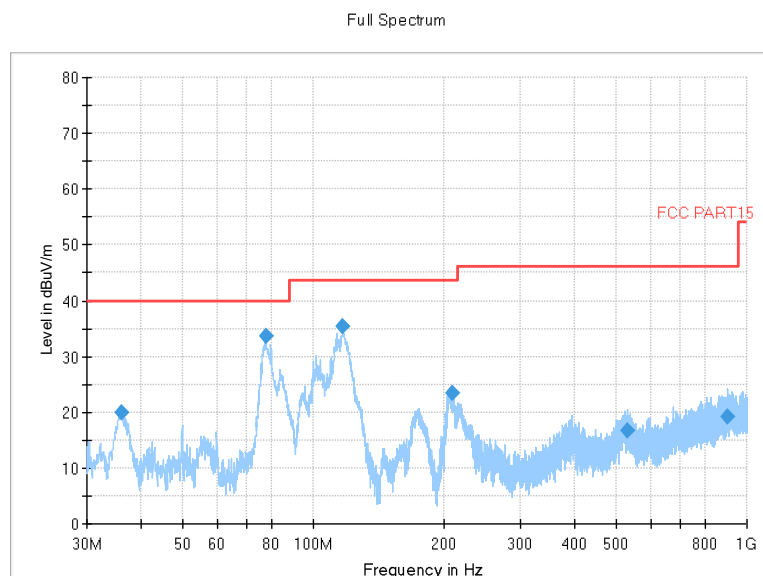


Frequency Range: 9kHz -30MHz

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.

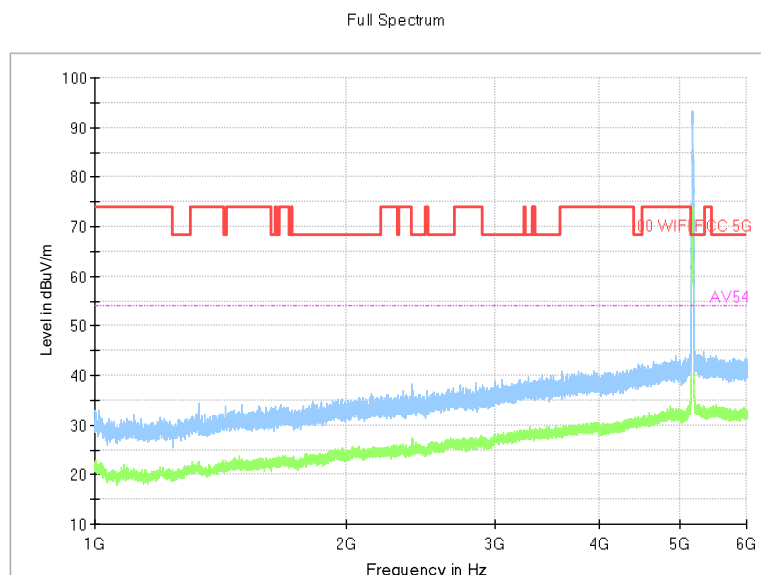
Channel No.:36



Frequency Range: 30MHz -1GHz

Detector: QP mode

Modulation type: 802.11a

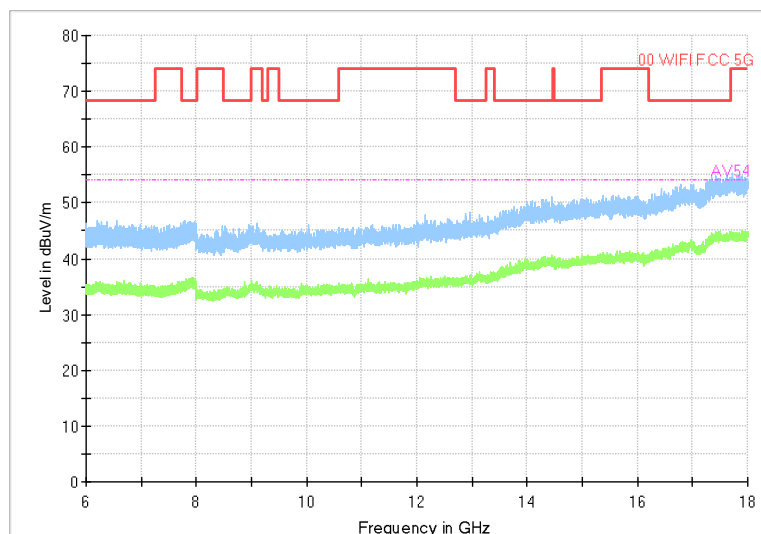


Frequency Range: 1GHz -6GHz

Detector: Av mode and PK mode

Modulation type: 802.11a

Full Spectrum

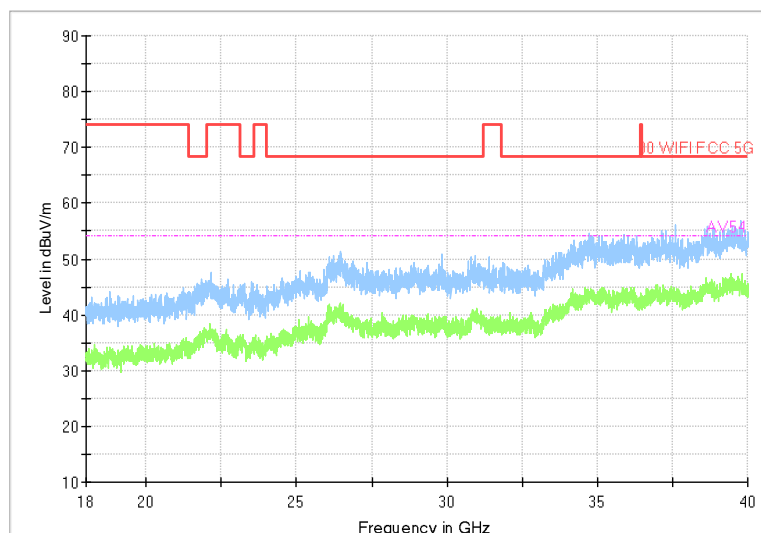


Frequency Range: 6GHz -18GHz

Detector: Av mode and PK mode

Modulation type: 802.11a

Full Spectrum

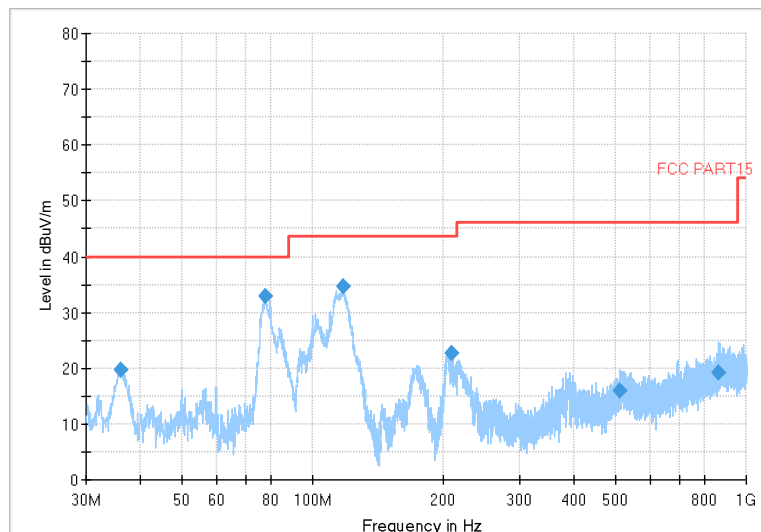


Frequency Range: 18GHz -40GHz

Detector: Av mode and PK mode

Modulation type: 802.11a

Full Spectrum

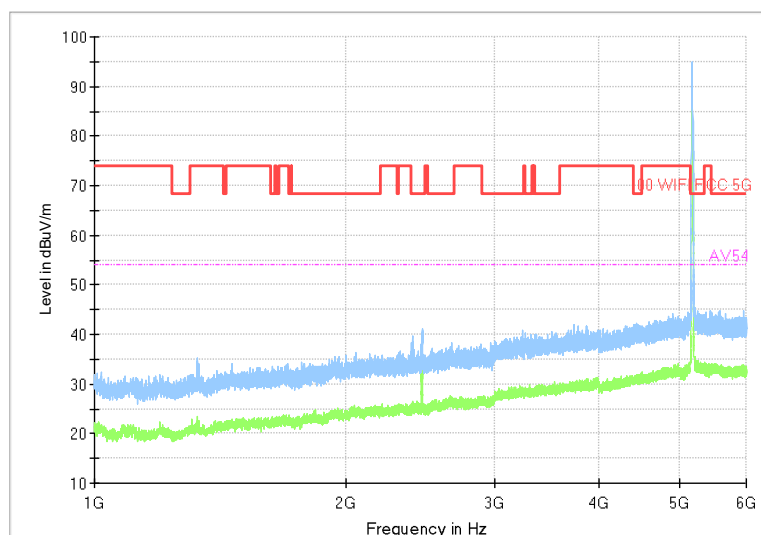


Frequency Range: 30MHz -1GHz

Detector: QP mode

Modulation type: 802.11n(HT20)

Full Spectrum

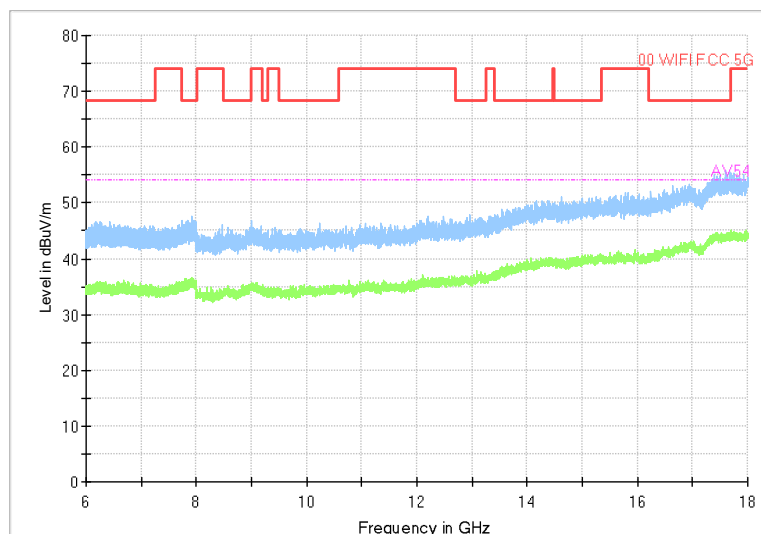


Frequency Range: 1GHz -6GHz

Detector: Av mode and PK mode

Modulation type: 802.11n(HT20)

Full Spectrum

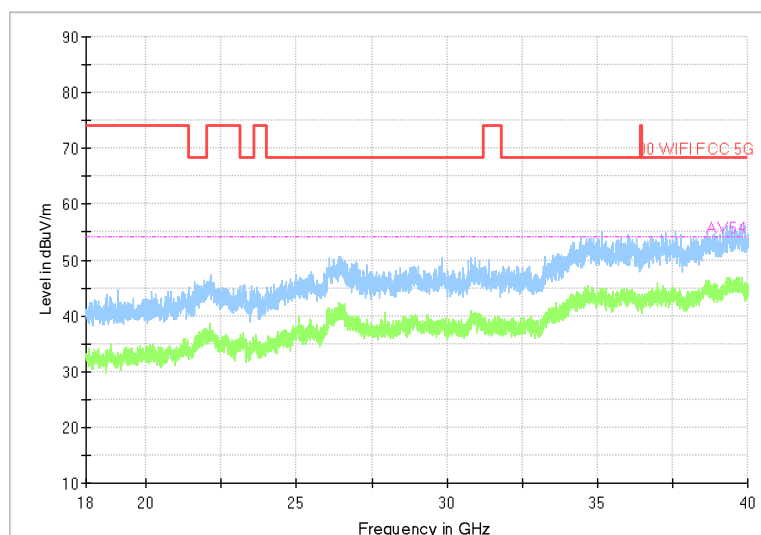


Frequency Range: 6GHz -18GHz

Detector: Av mode and PK mode

Modulation type: 802.11n(HT20)

Full Spectrum

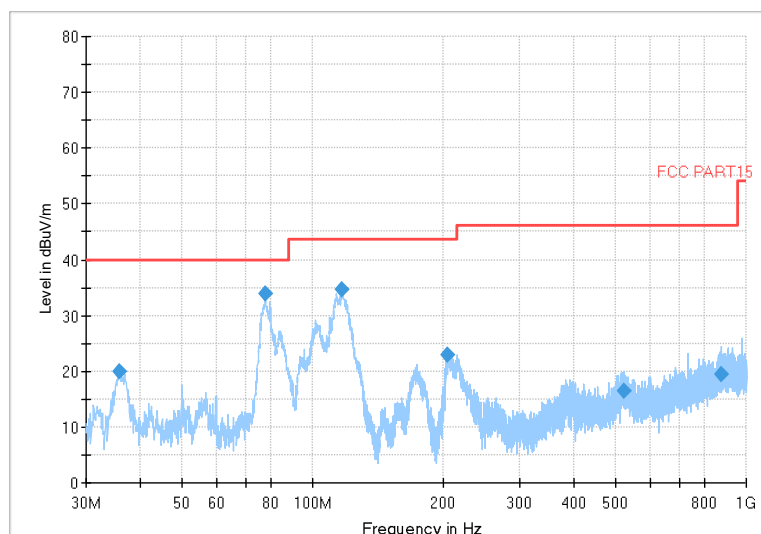


Frequency Range: 18GHz -40GHz

Detector: Av mode and PK mode

Modulation type: 802.11n(HT20)

Full Spectrum

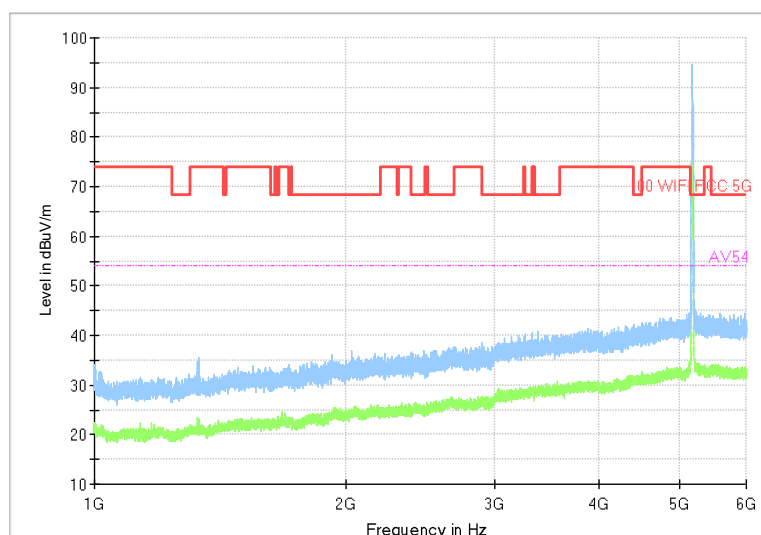


Frequency Range: 30MHz -1GHz

Detector: QP mode

Test Mode: 802.11ac(VHT20)

Full Spectrum

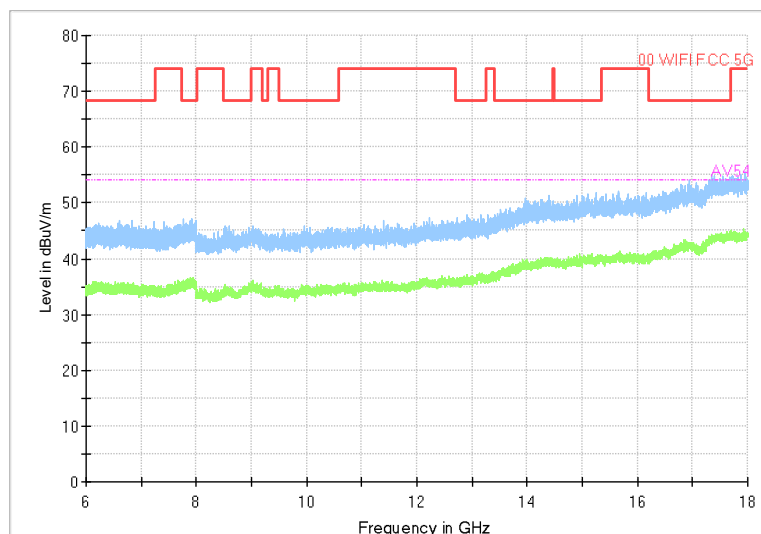


Frequency Range: 1GHz -6GHz

Detector: Av mode and PK mode

Test Mode: 802.11ac(VHT20)

Full Spectrum

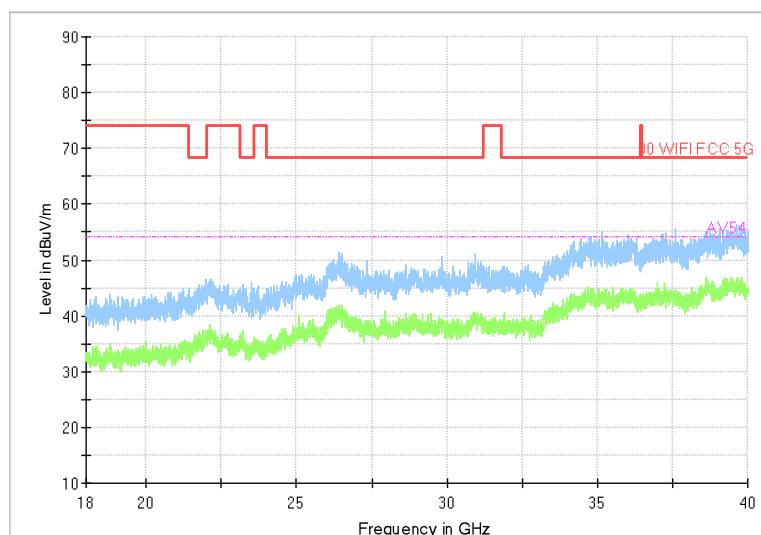


Frequency Range: 6GHz -18GHz

Detector: Av mode and PK mode

Test Mode: 802.11ac(VHT20)

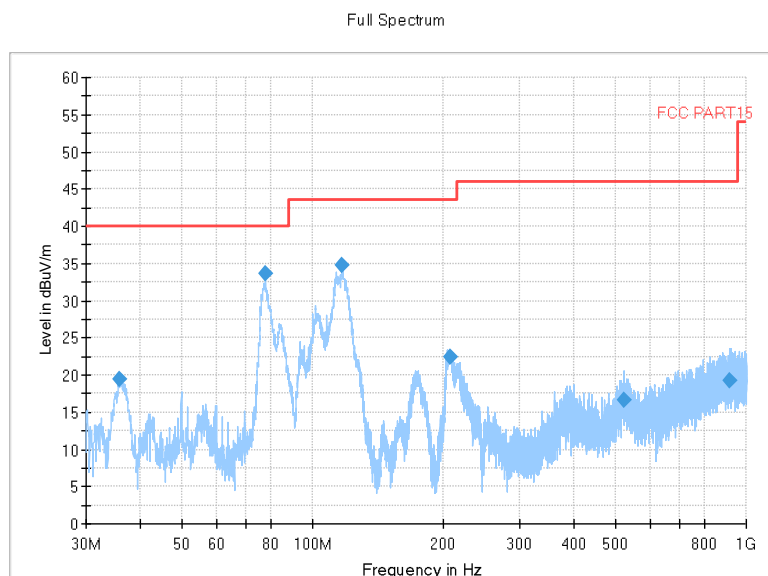
Full Spectrum



Frequency Range: 18GHz -40GHz

Detector: Av mode and PK mode

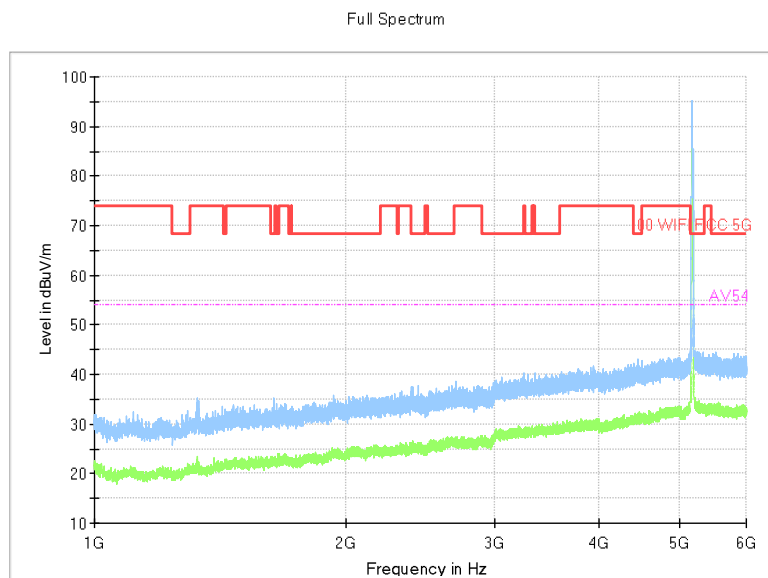
Test Mode: 802.11ac(VHT20)



Frequency Range: 30MHz -1GHz

Detector: QP mode

Test Mode: 802.11ax(HE20)

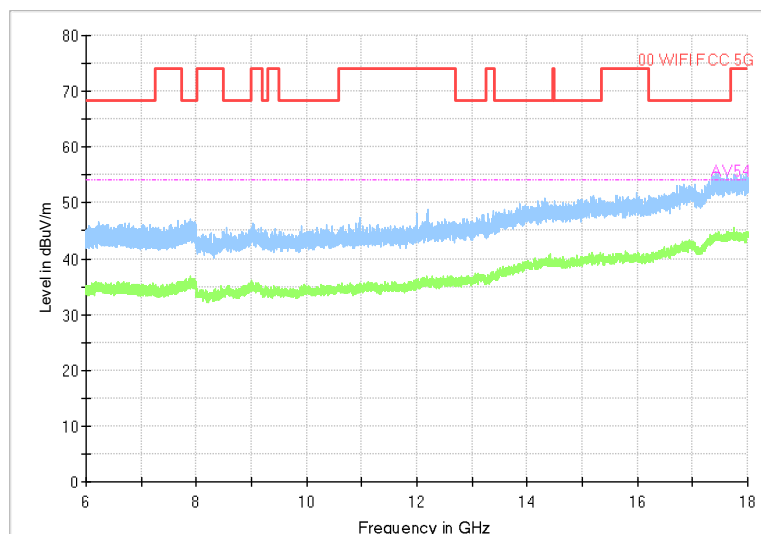


Frequency Range: 1GHz -6GHz

Detector: Av mode and PK mode

Test Mode: 802.11ax(HE20)

Full Spectrum

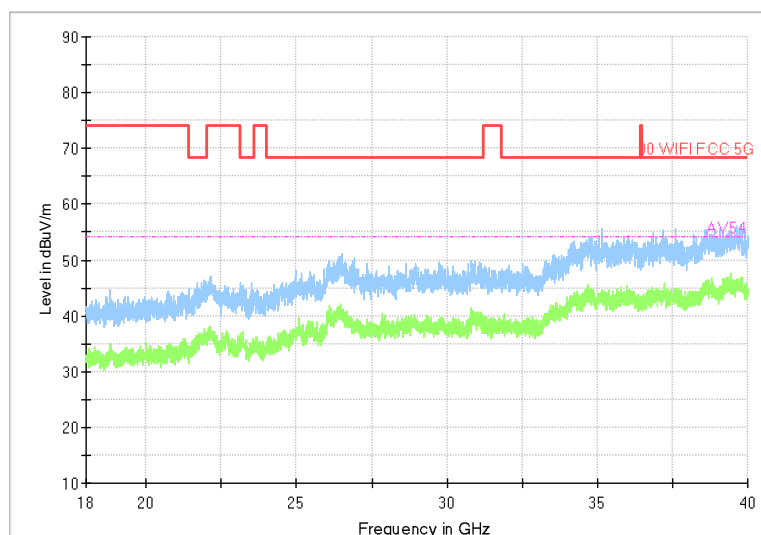


Frequency Range: 6GHz -18GHz

Detector: Av mode and PK mode

Test Mode: 802.11ax(HE20)

Full Spectrum



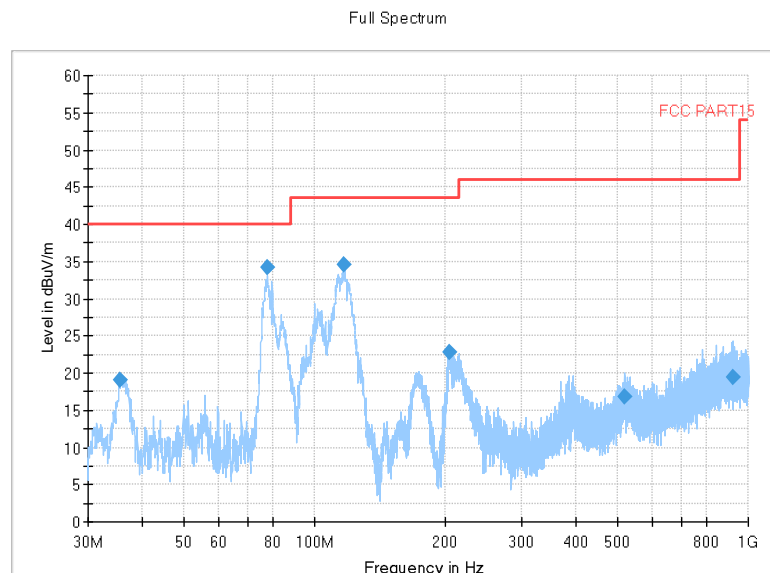
Frequency Range: 18GHz -40GHz

Detector: Av mode and PK mode

Test Mode: 802.11ax(HE20)

Carrier frequency (MHz): 5220

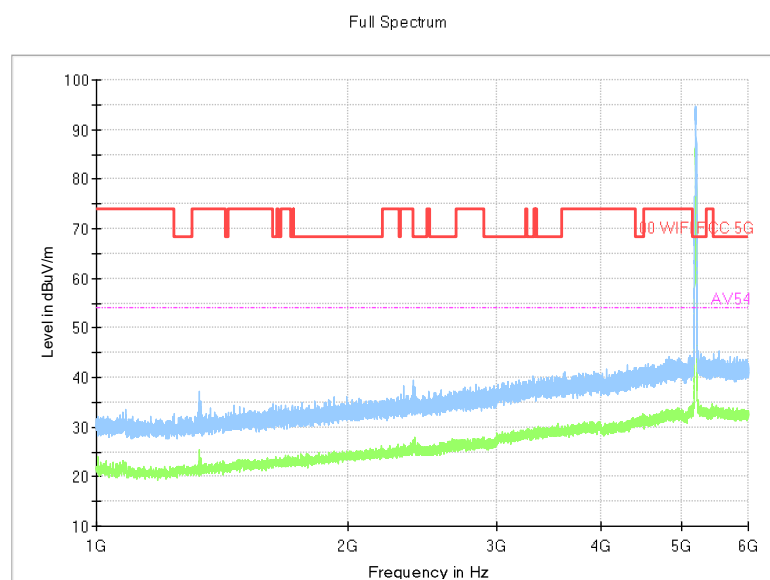
Channel No.44



Frequency Range: 30MHz -1GHz

Detector: QP mode

Modulation type: 802.11a

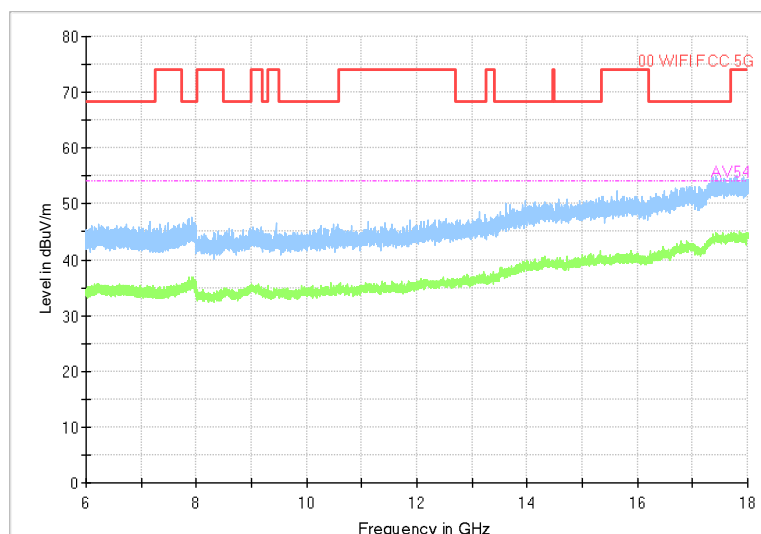


Frequency Range: 1GHz -6GHz

Detector: Av mode and PK mode

Modulation type: 802.11a

Full Spectrum

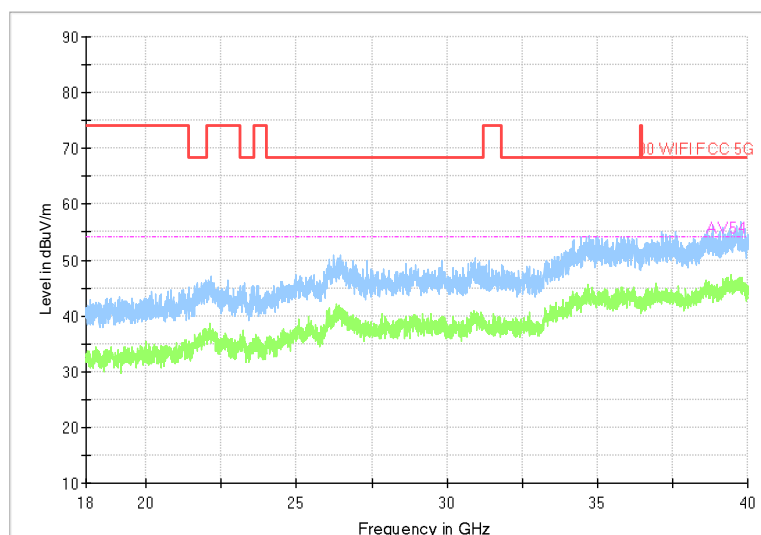


Frequency Range: 6GHz -18GHz

Detector: Av mode and PK mode

Modulation type: 802.11a

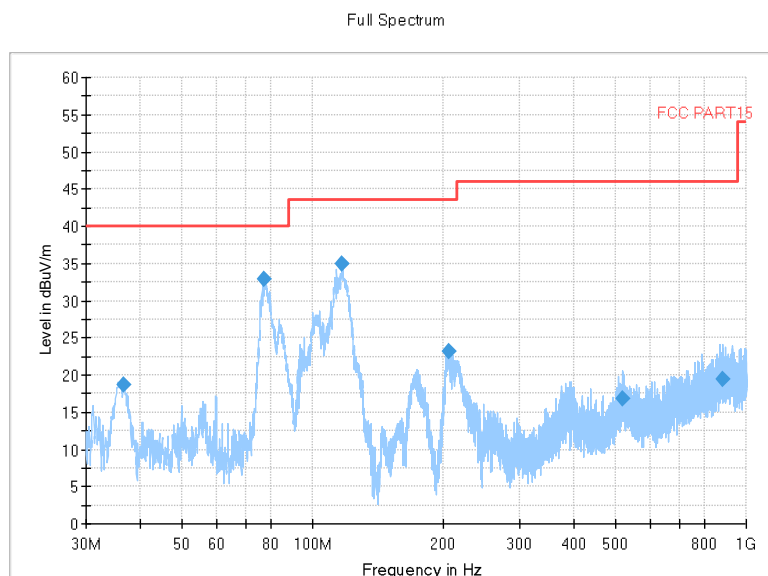
Full Spectrum



Frequency Range: 18GHz -40GHz

Detector: Av mode and PK mode

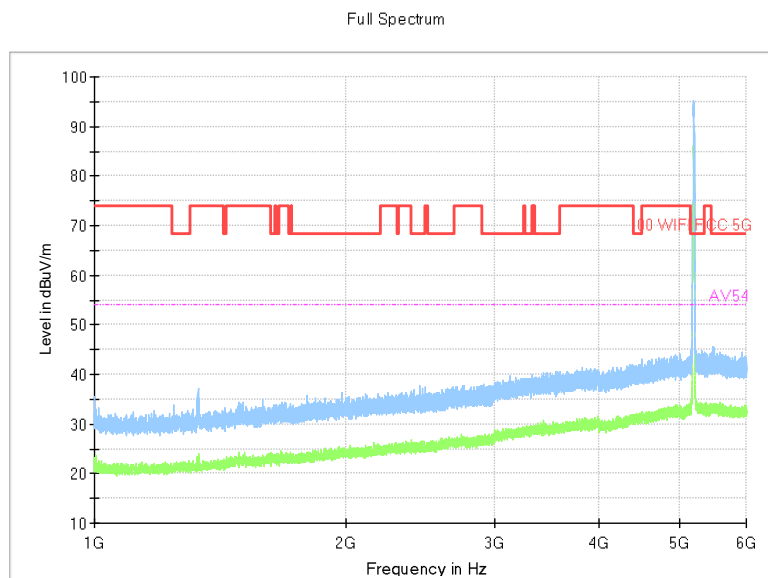
Modulation type: 802.11a



Frequency Range: 30MHz -1GHz

Detector: QP mode

Modulation type: 802.11n(HT20)

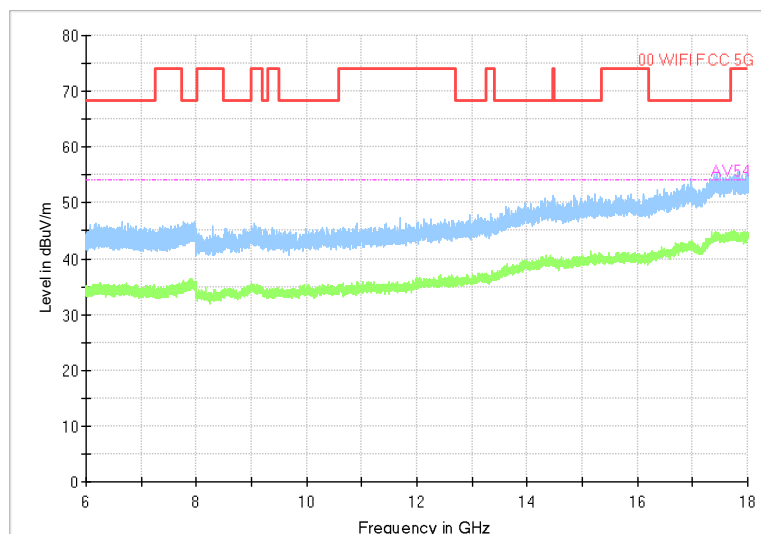


Frequency Range: 1GHz -6GHz

Detector: Av mode and PK mode

Modulation type: 802.11n(HT20)

Full Spectrum

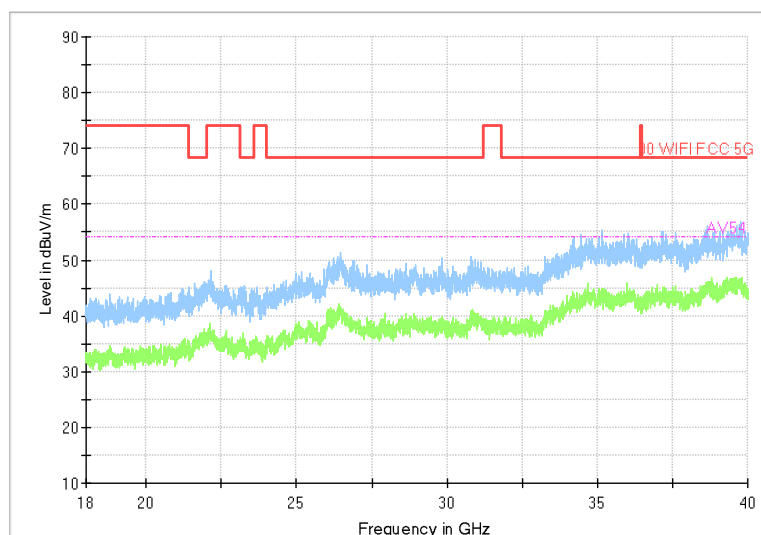


Frequency Range: 6GHz -18GHz

Detector: Av mode and PK mode

Modulation type: 802.11n(HT20)

Full Spectrum

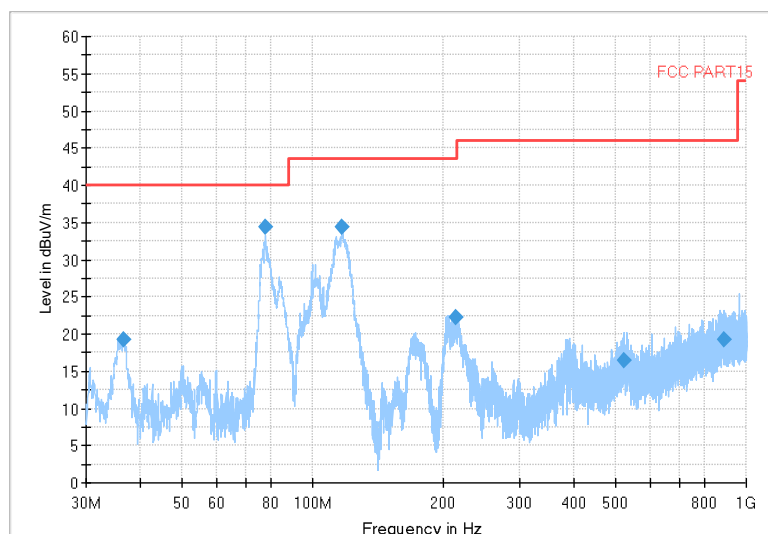


Frequency Range: 18GHz -40GHz

Detector: Av mode and PK mode

Modulation type: 802.11n(HT20)

Full Spectrum

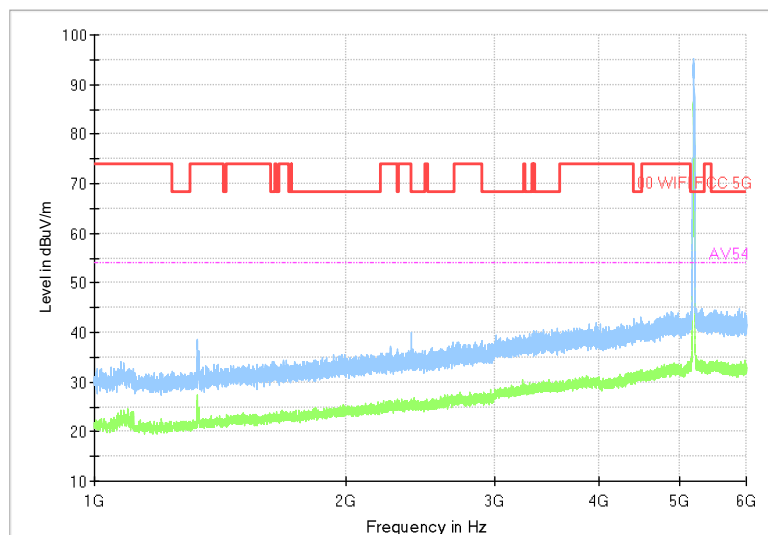


Frequency Range: 30MHz -1GHz

Detector: QP mode

Test Mode: 802.11ac(VHT20)

Full Spectrum

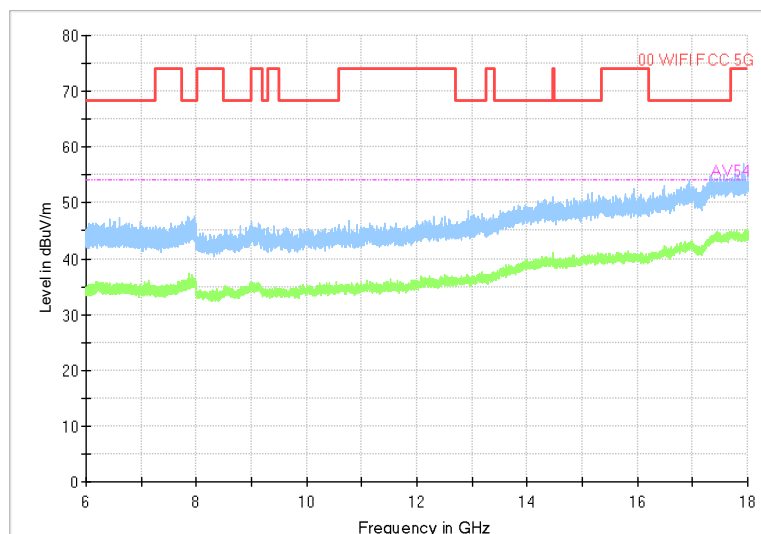


Frequency Range: 1GHz -6GHz

Detector: Av mode and PK mode

Test Mode: 802.11ac(VHT20)

Full Spectrum

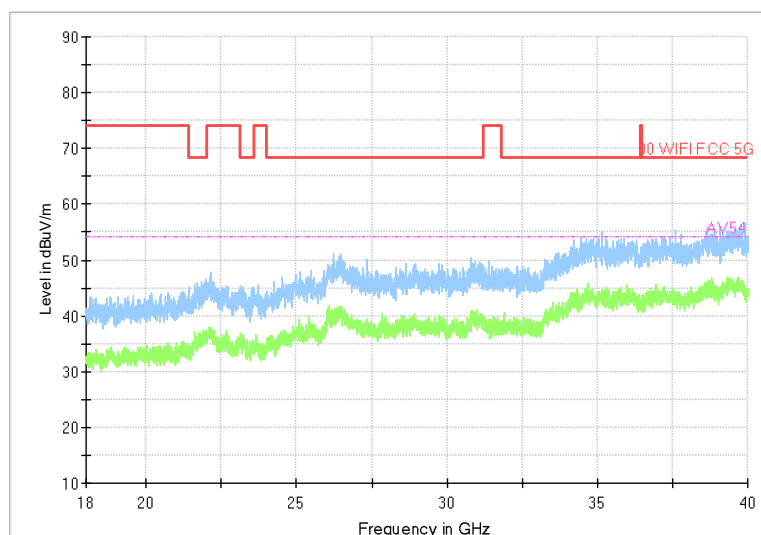


Frequency Range: 6GHz -18GHz

Detector: Av mode and PK mode

Test Mode: 802.11ac(VHT20)

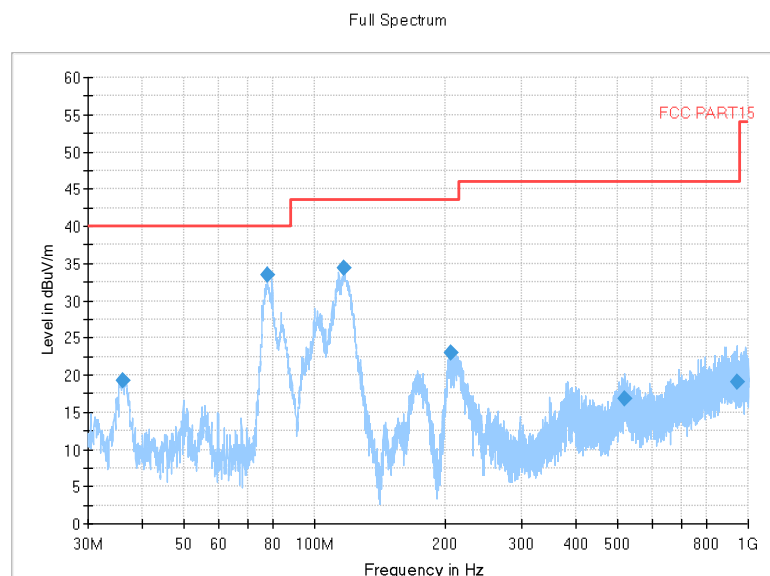
Full Spectrum



Frequency Range: 18GHz -40GHz

Detector: Av mode and PK mode

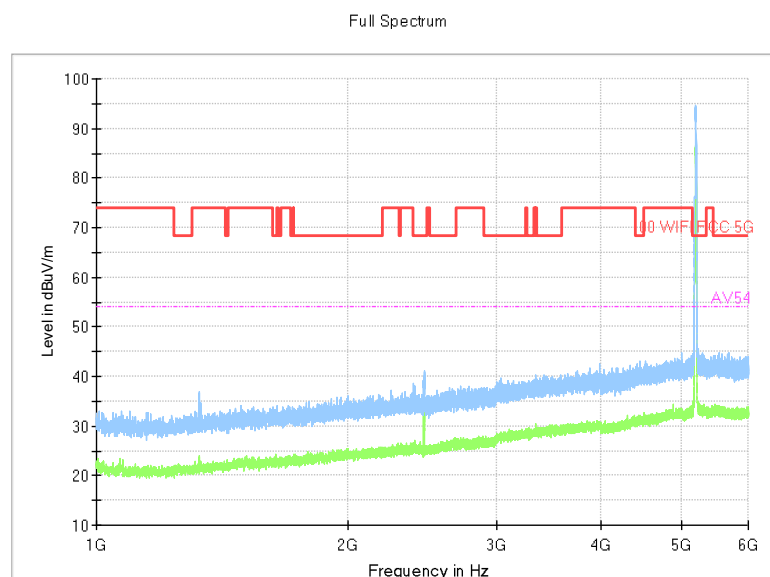
Test Mode: 802.11ac(VHT20)



Frequency Range: 30MHz -1GHz

Detector: QP mode

Test Mode: 802.11ax(HE20)

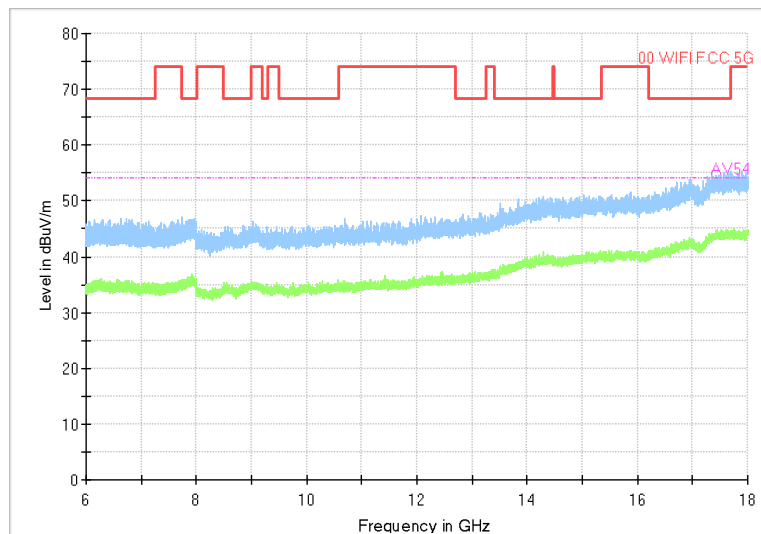


Frequency Range: 1GHz -6GHz

Detector: Av mode and PK mode

Test Mode: 802.11ax(HE20)

Full Spectrum

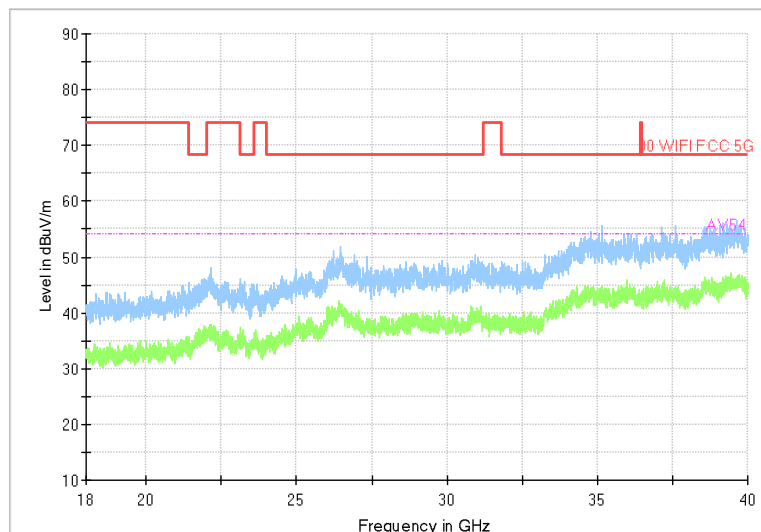


Frequency Range: 6GHz -18GHz

Detector: Av mode and PK mode

Test Mode: 802.11ax(HE20)

Full Spectrum



Frequency Range: 18GHz -40GHz

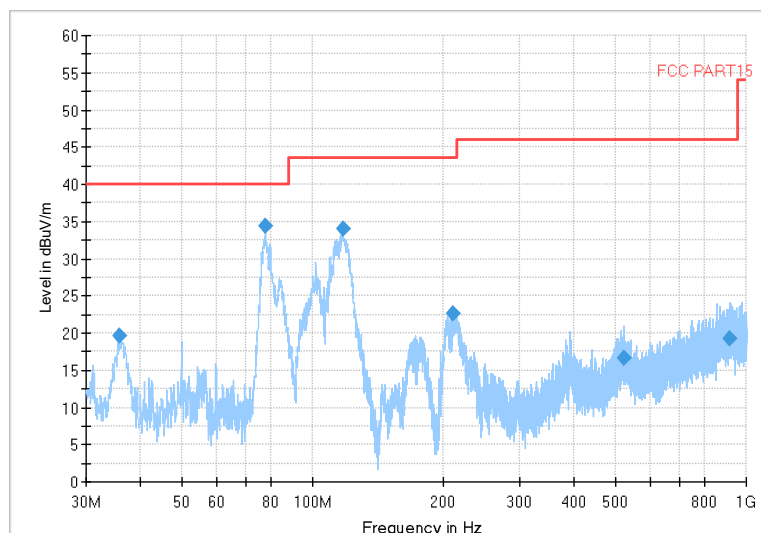
Detector: Av mode and PK mode

Test Mode: 802.11ax(HE20)

Carrier frequency (MHz): 5240

Channel No.:48

Full Spectrum

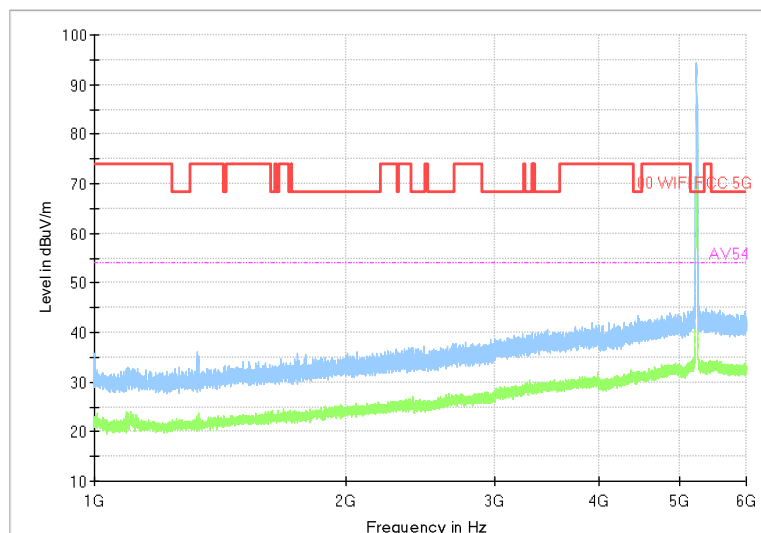


Frequency Range: 30MHz -1GHz

Detector: QP mode

Modulation type: 802.11a

Full Spectrum

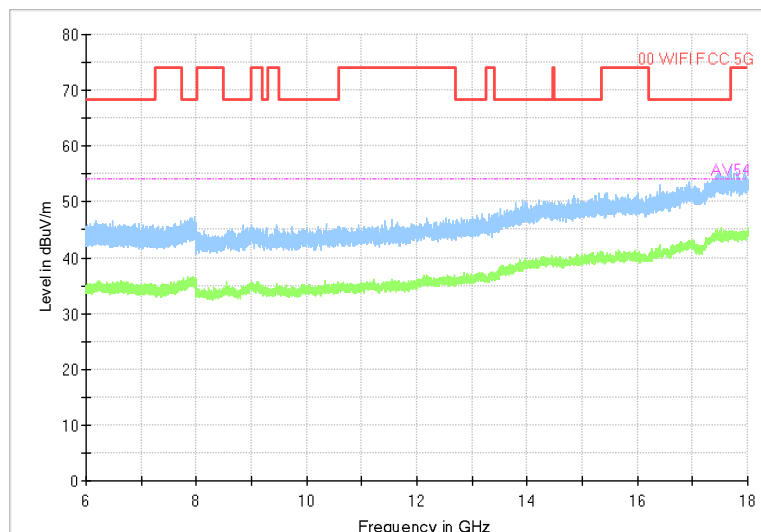


Frequency Range: 1GHz -6GHz

Detector: Av mode and PK mode

Modulation type: 802.11a

Full Spectrum

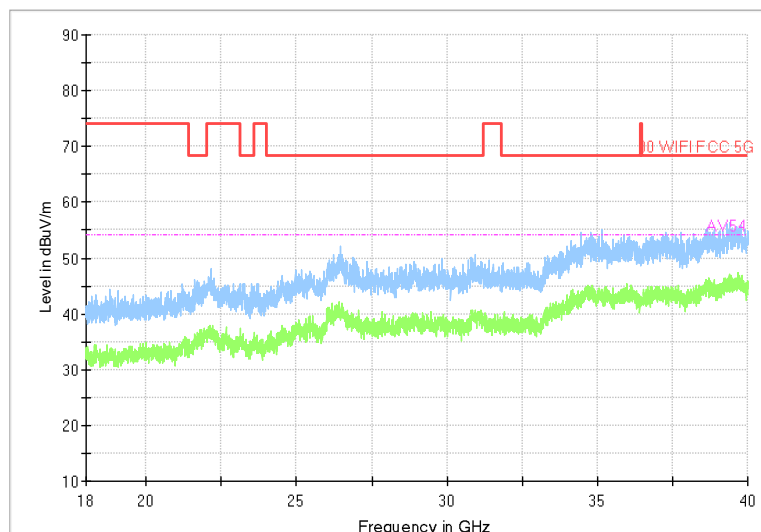


Frequency Range: 6GHz -18GHz

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