

TEST REPORT

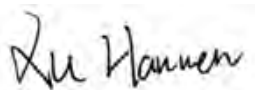
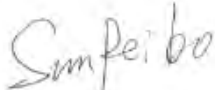
Applicant:	Qingdao Intelligent & Precise Electronics Co., Ltd.
Address:	No.218, Qianwangang Road, Economic and Technological Development Zone, Qingdao, Shandong Province, China

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

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

☒ **FCC Part 15, Subpart E, Section 15.407**

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

Prepared by Hanwen Xu Engineer / Mobile Department	Approved by Peibo Sun Manager / Mobile Department
 Date: Mar.10, 2025	 Date: Mar.10, 2025

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Test Report No.: PSU-NQN2502260117RF04

RELEASE CONTROL RECORD

Issue No.	Description	Date Issued
PSU-NQN2502260117RF04	Original release	Mar.10, 2025

1 SUMMARY OF TEST RESULTS

47 CFR FCC Part 15, Subpart E (Section 15.407)			
FCC Clause	Test Item	Result	Test Lab
15.407(b)(9)	AC Power Conducted Emissions	Compliance	A
15.407(b)(6)(9)	Radiated Emissions	Compliance	A
15.407(b)(7)	In-Band Emission (Mask)	Compliance	A
15.407(a)(11)	Emission Bandwidth Measurement	Compliance	A
15.407(a)(7)(8)	Maximum Power Spectral Density	Compliance	A
15.407 (d)(6)	Contention-based Protocol.	Compliance	A
15.407(a)(7)(8)	RF Output Power	Compliance	A
15.407(d)(5)	Operational restrictions for 6 GHz U-NII devices	Declaration by applicant	A
15.203	Antenna Requirement	Compliance	A

Note:

1. Except the data of RSE and Band Edge Measurement, other data please refer to Appendix A.
2. 802.11ax support full RU tone and partial RU tone, both full RU and partial RU-left (for low CH) and RU-mid (for mid CH) and partial RU-Right (for high CH) are tested for conducted power/PSD/In-Band Emission, all the other test case were performed with full RU with its maximum power/PSD.
3. Preliminary Investigation scans were completed to compare Full RU Tone modes and Single User Tone modes. It was found that SU modes were the worst case over Full RU-Tone mode in every instance, and the physical waveforms of SU mode and FULL RU-Tone are the same, and both FULL RU-Tone mode have lower power than SU mode. Therefore, only SU mode was report as it is representative of Full RU-Tone worst case scenario.
4. WIFI-6e supports SISO&MIMO mode, the whole testing has assessed the MIMO mode by referring to their maximum conducted power. and the 802.11ax HE40/80MHz RU26T/52T/106T/242T modes are cover by the 11ax HE20MHz modes, the 802.11ax HE80 RU484T modes are cover by the 11ax HE40MHz modes.
5. Only the worse data was reported.



Test Report No.: PSU-NQN2502260117RF04

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

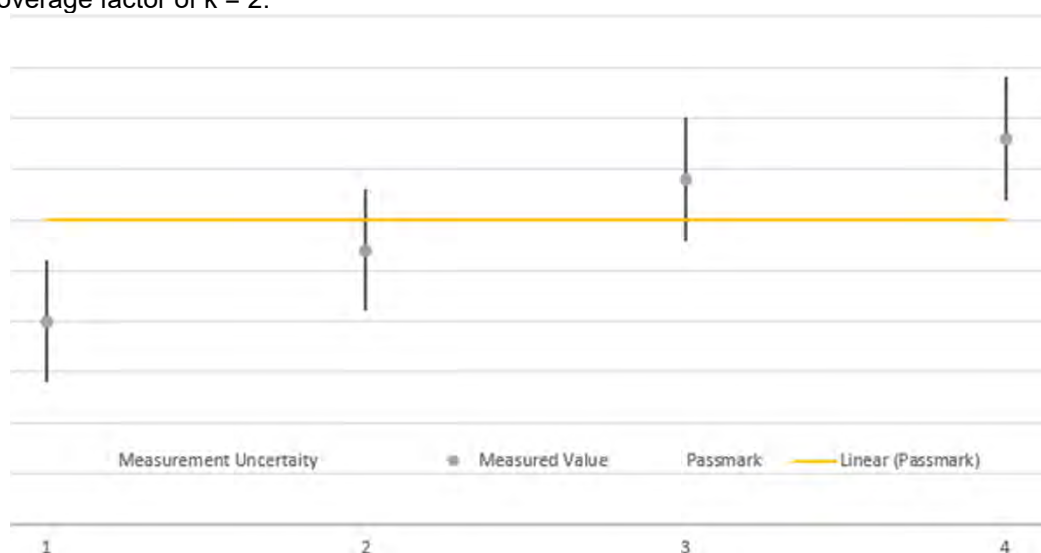
The FCC Site Registration No. is 434559; The Designation No. is CN1325.

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	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz~150KHz	± 2.87
	150KHz ~ 30MHz	± 3.36
Radiated emissions	9KHz ~ 30MHz	2.80dB
	30MHz ~ 1GMHz	4.65dB
	1GHz ~ 18GHz	5.01dB
	18GHz ~ 40GHz	4.10dB

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.

1.2 MODIFICATION RECORD

There were no modifications required for compliance.

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT*	WiFi/BT Module
BRAND*	Hisense
MODEL NAME*	MWH648S
NOMINAL VOLTAGE*	3.3Vdc (DC supply)
MODULATION TYPE*	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA
MODULATION TECHNOLOGY*	OFDM, OFDMA
TRANSFER RATE	802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11ax: up to 1201Mbps 802.11ax: up to 2401.9Mbps
OPERATING FREQUENCY	Low-power Indoor client 5.945 GHz ~ 6.425 GHz 6.425 GHz ~ 6.525 GHz 6.525 GHz ~ 6.875 GHz 6.875 GHz ~ 7.125 GHz
NUMBER OF CHANNEL	802.11ax (HE20): 60 802.11ax (HE40): 29 802.11ax (HE80): 14
OUTPUT EIRP POWER	3.733mW for 5945 ~ 6425MHz 1.524mW for 6425 ~ 6525MHz 2.118mW for 6525 ~ 6875MHz 1.762mW for 6875 ~ 7125MHz
ANTENNA TYPE*	ANT 1 and ANT 2: Dipole Antenna with 3.52 dBi For 5945 ~ 6425MHz Dipole Antenna with 3.52 dBi For 6425 ~ 6525MHz Dipole Antenna with 3.52 dBi For 6525 ~ 6875MHz Dipole Antenna with 3.52 dBi For 6875 ~ 7125MHz
Directional Gain:	For Power/PSD: 3.52dBi(Uncorrelated) for WIFI
Beamforming Directional Gain:	N/A
HW VERSION*	V1.00
SW VERSION*	N/A
I/O PORTS	Refer to user's manual
CABLE SUPPLIED*	N/A

NOTE:

- *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.
- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 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.

4. The EUT incorporates a MIMO function. Physically, the EUT provides 2 completed transmitters and 2 receivers.

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

2.2 DESCRIPTION OF TEST MODES

U-NII-5 band: Low-power Indoor client

25 channels are provided for 802.11ax (HE20):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
2	5935 MHz	1	5955 MHz	5	5975 MHz	9	5995 MHz
13	6015 MHz	17	6035 MHz	21	6055 MHz	25	6075 MHz
29	6095 MHz	33	6115 MHz	37	6135 MHz	41	6155 MHz
45	6175 MHz	49	6195 MHz	53	6215 MHz	57	6235 MHz
61	6255 MHz	65	6275 MHz	69	6295 MHz	73	6315 MHz
77	6335 MHz	81	6355 MHz	85	6375 MHz	89	6395 MHz
93	6415 MHz						

12 channels are provided for 802.11ax (HE40):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
3	5965 MHz	11	6005 MHz	19	6045 MHz	27	6085 MHz
35	6125 MHz	43	6165 MHz	51	6205 MHz	59	6245 MHz
67	6285 MHz	75	6325 MHz	83	6365 MHz	91	6405 MHz

6 channel is provided for 802.11ax (HE80):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
7	5985 MHz	23	6065 MHz	39	6145 MHz	55	6225 MHz
71	6305 MHz	87	6385 MHz				

U-NII-6 band: Low-power Indoor client

5 channels are provided for 802.11a, 802.11ax (HE20):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
97	6435 MHz	101	6455 MHz	105	6475 MHz	109	6495 MHz
113	6515 MHz						

3 channels are provided for 802.11ax (HE40):

Channel	Frequency	Channel	Frequency	Channel	Frequency
99	6445 MHz	107	6485 MHz	*115	6525 MHz

2 channel are provided for 802.11ax (HE80):

Channel	Frequency	Channel	Frequency
103	6465 MHz	*119	6545 MHz

U-NII-7 band: Low-power Indoor client

18 channels are provided for 802.11ax (HE20):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
117	6535 MHz	121	6555 MHz	125	6575 MHz	129	6595 MHz
133	6615 MHz	137	6635 MHz	141	6655 MHz	145	6675 MHz
149	6695 MHz	153	6715 MHz	157	6735 MHz	161	6755 MHz
165	6775 MHz	169	6795 MHz	173	6815 MHz	177	6835 MHz
181	6855 MHz	*185	6875 MHz				

9 channels are provided for 802.11ax (HE40):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
123	6565 MHz	131	6605 MHz	139	6645 MHz	147	6685 MHz
155	6725 MHz	163	6765 MHz	171	6805 MHz	179	6845 MHz
*187	6885 MHz						

4 channels are provided for 802.11ax (HE80):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
135	6625 MHz	151	6705 MHz	167	6785 MHz	*183	6865 MHz

U-NII-8 band: Under control of a Low-power Indoor AP

12 channels are provided for 802.11a, 802.11ax (HE20):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
189	6895 MHz	193	6915 MHz	197	6935 MHz	201	6955 MHz
205	6975 MHz	209	6995 MHz	213	7015 MHz	217	7035 MHz
221	7055 MHz	225	7075 MHz	229	7095 MHz	233	7115 MHz

5 channels are provided for 802.11ax (HE40):

Channel	Frequency	Channel	Frequency	Channel	Frequency
195	6925 MHz	203	6965 MHz	211	7005 MHz
219	7045 MHz	227	7085 MHz		

2 channel is provided for 802.11ax (HE80):

Channel	Frequency	Channel	Frequency
199	6945 MHz	215	7025 MHz

Note: * mean this's straddle channel and operating under control by Low-power indoor AP only.

2.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO						DESCRIPTION
	RE≥1G	RE<1G	IBE	PLC	CBP	APCM	
A	√	√	√	√	√	√	Powered by Adapter/Battery
B	√	√	-	-	-	-	Powered by Notebook

Where **RE≥1G**: Radiated Emission above 1GHz

RE<1G: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission

APCM: Antenna Port Conducted Measurement

IBE: In-Band Emission (MASK)

CBP:Contention Based Protocol

Note:

1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on Z-plane (for mode A).
2. "-": Means no effect.

Radiated Emission Measurement (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).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQUENCY BAND (MHZ)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE PARAMETER
A,B	802.11ax (HE20)	5945-6425	1 to 93	1, 45, 93	OFDM	BPSK	MCS0
		6425-6525	97 to 113	97, 105, 113	OFDM	BPSK	MCS0
		6525-6875	117 to 185	117, 149, 185	OFDM	BPSK	MCS0
		6875-7125	185 to 233	189, 209, 233	OFDM	BPSK	MCS0
A,B	802.11ax (HE40)	5945-6425	3 to 91	3, 43, 91	OFDM	BPSK	MCS0
		6425-6525	99 to 115	99, 115	OFDM	BPSK	MCS0
		6525-6875	115 to 187	123, 147, 179	OFDM	BPSK	MCS0
		6875-7125	187 to 227	195, 203, 227	OFDM	BPSK	MCS0
A,B	802.11ax (HE80)	5945-6425	7 to 87	7, 39, 87	OFDM	BPSK	MCS0
		6425-6525	103 to 119	103	OFDM	BPSK	MCS0
		6525-6875	119 to 183	135, 151, 183	OFDM	BPSK	MCS0
		6875-7125	183 to 215	199, 215	OFDM	BPSK	MCS0

Radiated Emission Measurement (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).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQUENCY BAND (MHZ)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE PARAMETER
A,B	802.11ax (HE80)	6525-6855	119 to 183	135	OFDM	BPSK	MCS0

In-Band Emission (MASK) Measurement:

EUT CONFIGURE MODE	MODE	FREQUENCY BAND (MHZ)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE PARAMETER
A	802.11ax (HE20)	5945-6425	1 to 93	1, 45, 93	OFDM	BPSK	MCS0
		6425-6525	97 to 113	97, 105, 113	OFDM	BPSK	MCS0
		6525-6875	117 to 185	117, 149, 185	OFDM	BPSK	MCS0
		6875-7125	185 to 233	189, 209, 233	OFDM	BPSK	MCS0
A	802.11ax (HE40)	5945-6425	3 to 91	3, 43, 91	OFDM	BPSK	MCS0
		6425-6525	99 to 115	99, 115	OFDM	BPSK	MCS0
		6525-6875	115 to 187	123, 147, 179	OFDM	BPSK	MCS0
		6875-7125	187 to 227	195, 203, 227	OFDM	BPSK	MCS0
A	802.11ax (HE80)	5945-6425	7 to 87	7, 39, 87	OFDM	BPSK	MCS0
		6425-6525	103 to 119	103	OFDM	BPSK	MCS0
		6525-6875	119 to 183	135, 151, 183	OFDM	BPSK	MCS0
		6875-7125	183 to 215	199, 215	OFDM	BPSK	MCS0

Power Line Conducted Emission 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).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQUENCY BAND (MHZ)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE PARAMETER
A	802.11ax (HE80)	6525-6875	119 to 183	135	OFDM	BPSK	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).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQUENCY BAND (MHZ)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE PARAMETER
A	802.11ax (HE20)	5945-6425	1 to 93	1, 45, 93	OFDM	BPSK	MCS0
		6425-6525	97 to 113	97, 105, 113	OFDM	BPSK	MCS0
		6525-6875	117 to 185	117, 149, 185	OFDM	BPSK	MCS0
		6875-7125	185 to 233	189, 209, 233	OFDM	BPSK	MCS0
A	802.11ax (HE40)	5945-6425	3 to 91	3, 43, 91	OFDM	BPSK	MCS0
		6425-6525	99 to 115	99, 115	OFDM	BPSK	MCS0
		6525-6875	115 to 187	123, 147, 179	OFDM	BPSK	MCS0
		6875-7125	187 to 227	195, 203, 227	OFDM	BPSK	MCS0
A	802.11ax (HE80)	5945-6425	7 to 87	7, 39, 87	OFDM	BPSK	MCS0
		6425-6525	103 to 119	103	OFDM	BPSK	MCS0
		6525-6875	119 to 183	135, 151, 183	OFDM	BPSK	MCS0
		6875-7125	183 to 215	199, 215	OFDM	BPSK	MCS0

Contention Based Protocol 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).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQUENCY BAND (MHZ)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE PARAMETER
A	802.11ax (HE20)	5945-6425	1 to 93	37	OFDM	BPSK	MCS0
		6425-6525	97 to 113	101	OFDM	BPSK	MCS0
		6525-6875	117 to 185	149	OFDM	BPSK	MCS0
		6875-7125	185 to 233	197	OFDM	BPSK	MCS0

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER (SYSTEM)	TESTED BY
RE $\geq$ 1G	23 deg. C, 69% RH	DC 3.3V By DC Supply	Hanwen Xu
RE<1G	23 deg. C, 69% RH	DC 3.3V By DC Supply	Hanwen Xu
PLC	23 deg. C, 69% RH	DC 3.3V By DC Supply	Hanwen Xu
APCM	25 deg. C, 60% RH	DC 3.6V By DC Supply	Hanwen Xu

2.3 DUTY CYCLE OF TEST SIGNAL

Please Refer to Appendix A Of this test report.

2.4 DESCRIPTION OF SUPPORT UNITS

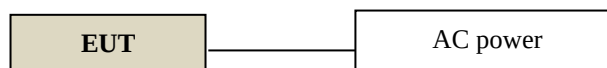
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Desktop	Lenovo	M73 SFF	PC04GRQV	N/A
2	Desktop	Lenovo	M73 SFF	PC06CS27	N/A
3	Laptop	Lenovo	Thinkpad L440	R90FTFKN	N/A
4	Router	ASUS	GT-AXE11000	M9IG04X400984RVB	N/A

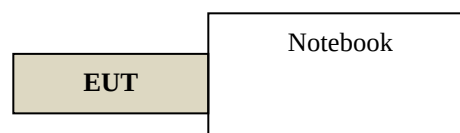
NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	AC Line: Unshielded, Detachable 1.5m
2	AC Line: Unshielded, Detachable 1.5m
3	AC Line: Unshielded, Detachable 1.5m
4	AC Line: Unshielded, Detachable 1.5m

2.4.1 CONFIGURATION OF SYSTEM UNDER TEST

Mode A



Mode B



2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS AND REFERENCES

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

Test standard:

FCC Part 15, Subpart E (15.407)

ANSI C63.10:2020

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

References Test Guidance:

KDB 987594 D02 EMC Measurement v01r01

KDB 789033 D02 General UNII Test Procedure New Rules v02r01

KDB 662911 D01 Multiple Transmitter Output v02r01

All test items have been performed as a reference to the above KDB test guidance.

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.

Limits of unwanted emission out of the restricted bands

Frequencies (MHz)	EIRP Limit	Equivalent Field Strength at 3m
5925MHz > F > 7125MHz	Peak:-7 (dBm/MHz)	88.2(dBμV/m)
	Average: -27 (dBm/MHz)	68.2(dBμV/m)

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

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

3.1.2 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
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-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.

3.1.3 TEST PROCEDURES

For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. 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. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case 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 Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 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 height of antenna 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 quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

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

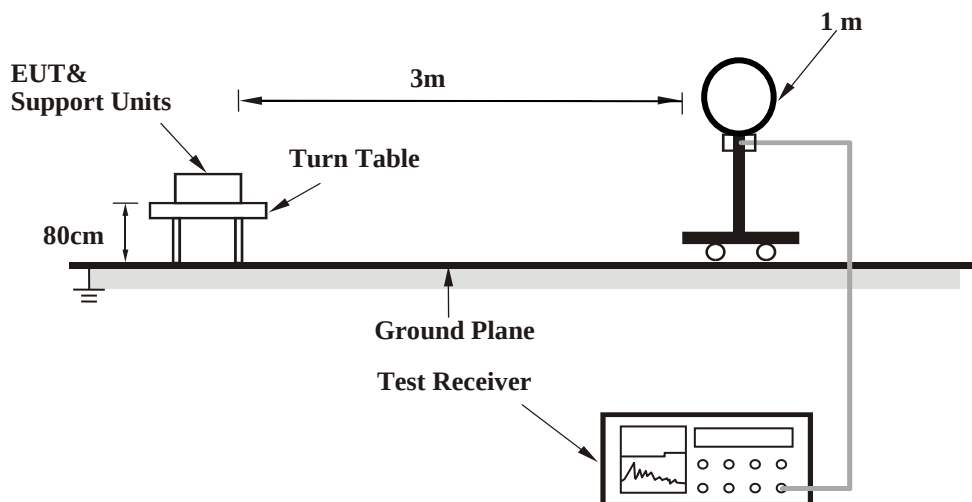
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
 Nss 1
 (802.11a: RBW = 1MHz, VBW = 1kHz; 802.11ax (HE20): RBW = 1MHz, VBW = 1kHz; 802.11ax (HE40): RBW = 1MHz, VBW = 1kHz; 802.11ax (HE80): RBW = 1MHz, VBW = 1kHz)
 Nss 2
 (802.11ax (HE20): RBW = 1MHz, VBW = 1kHz; 802.11ax (HE40): RBW = 1MHz, VBW = 1kHz; 802.11ax (HE80): RBW = 1MHz, VBW = 1kHz)
4. All modes of operation were investigated and the worst-case emissions are reported.

3.1.4 DEVIATION FROM TEST STANDARD

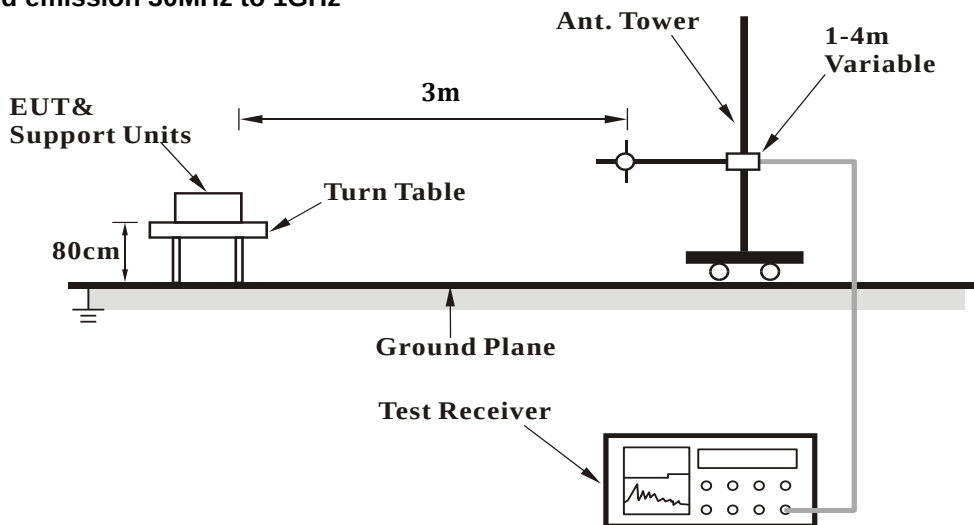
No deviation.

3.1.5 TEST SETUP

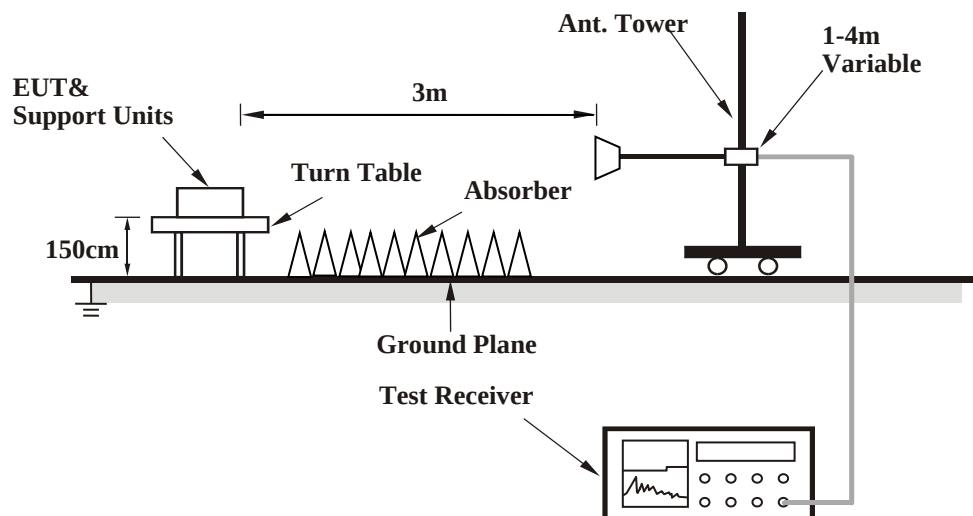
For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



For Radiated emission above 1GHz



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

3.1.6 EUT OPERATING CONDITIONS

Mode A

- EUT connected to the Notebook through dock via USB cable.
- The EUT under transmission condition continuously at specific channel frequency.

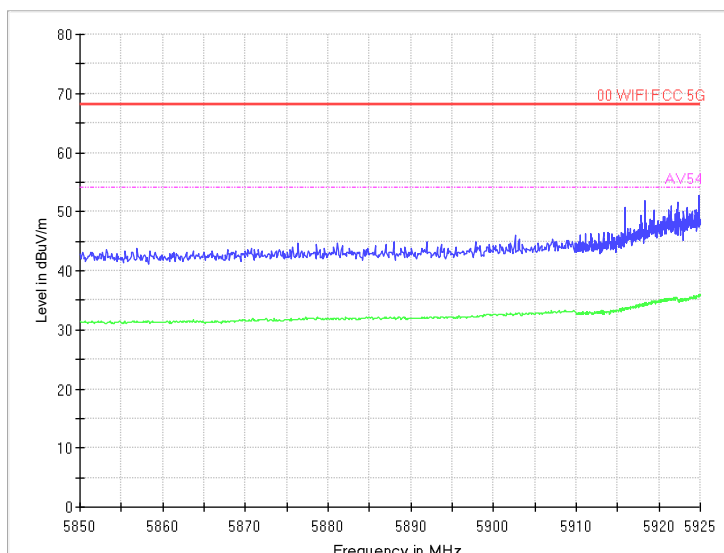
Mode B

- EUT plugged into the Notebook.
- The EUT under transmission condition continuously at specific channel frequency.

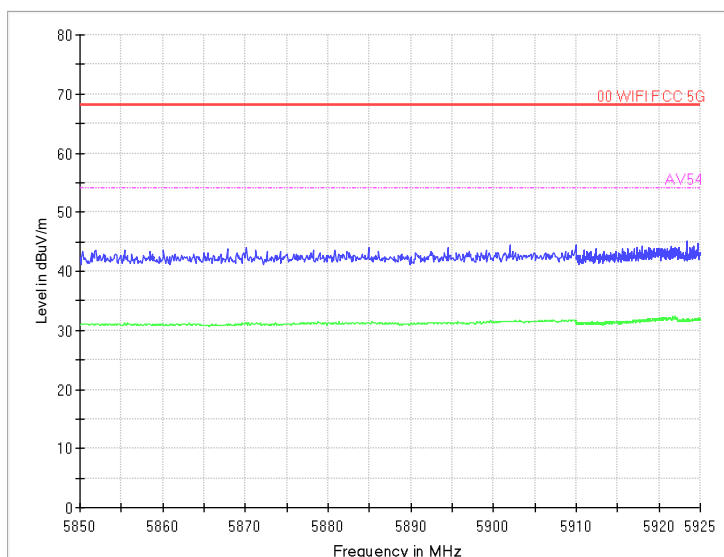
3.1.7 TEST RESULTS

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

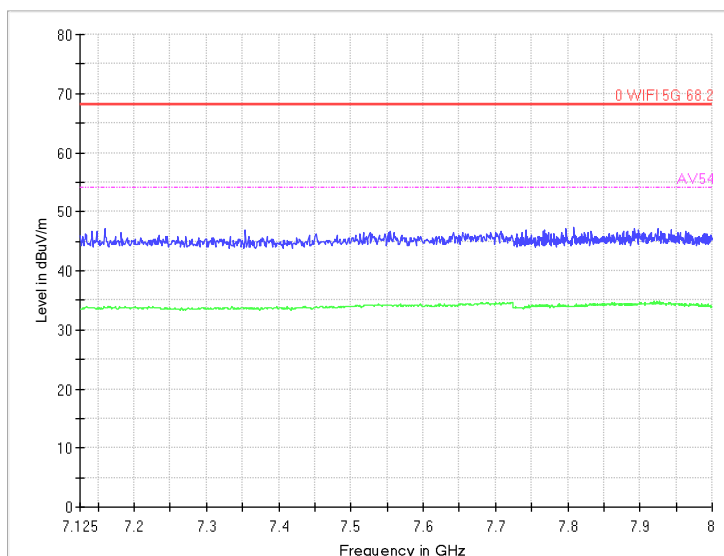
Radiated Emission Band Edge for WIFI 20M



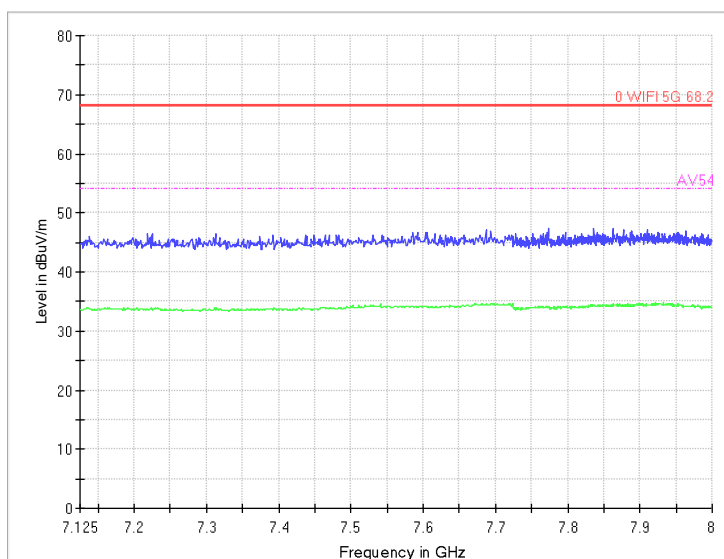
Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11a
Polarization: V



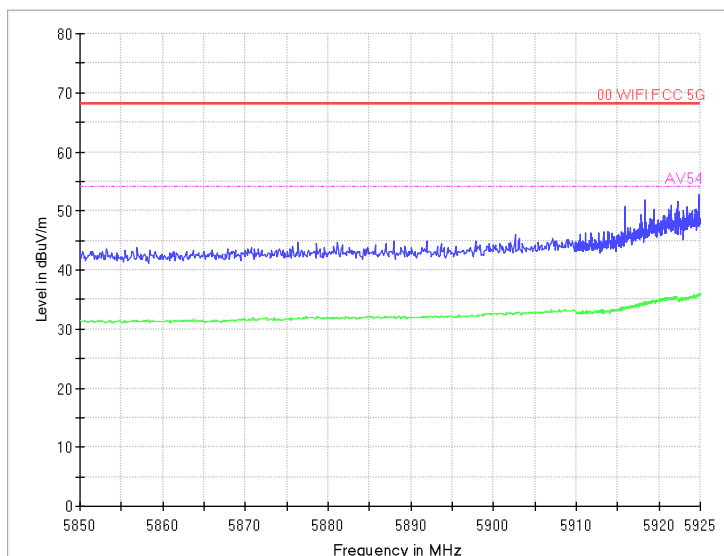
Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11a
Polarization: H



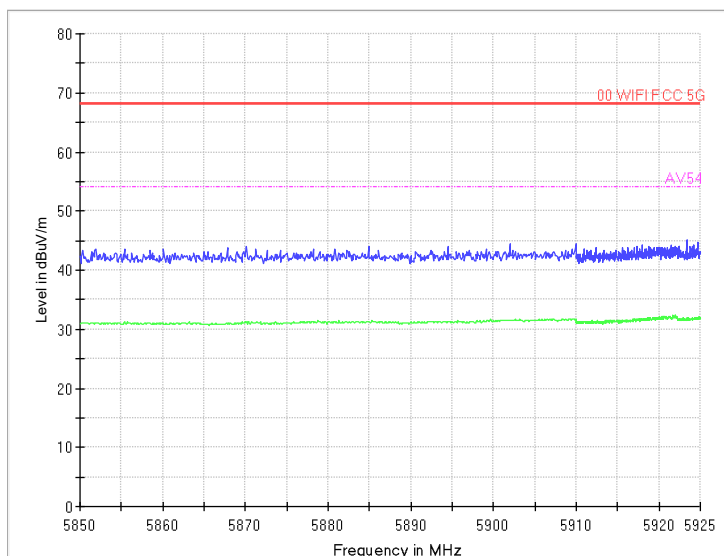
Radiated Emission Band Edge
Channel No.:233
Test Mode: 802.11a
Polarization: V



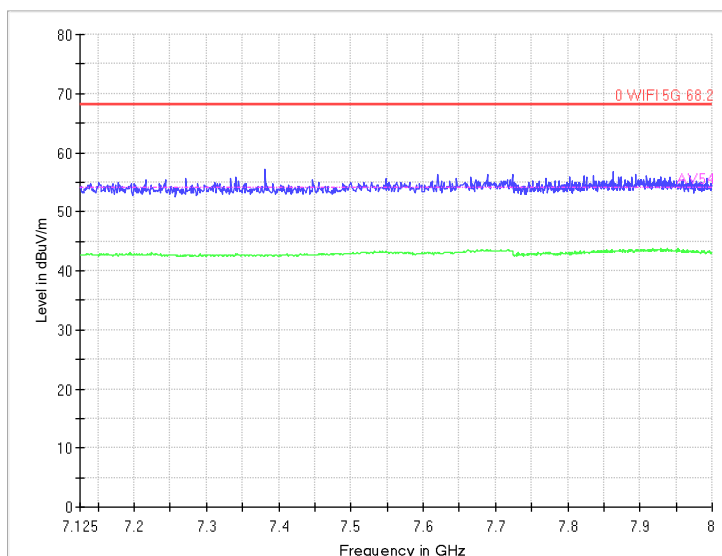
Radiated Emission Band Edge
Channel No.:233
Test Mode: 802.11a
Polarization: H



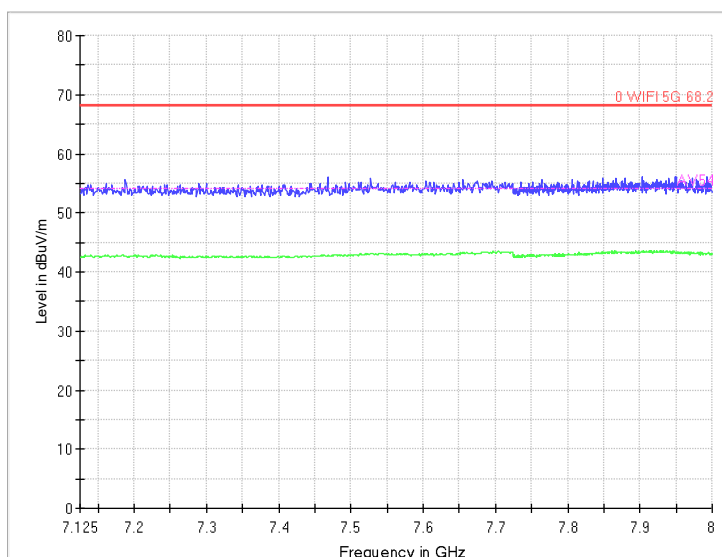
Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11ax(HE20)
Polarization: V



Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11 ax(HE20)
Polarization: H

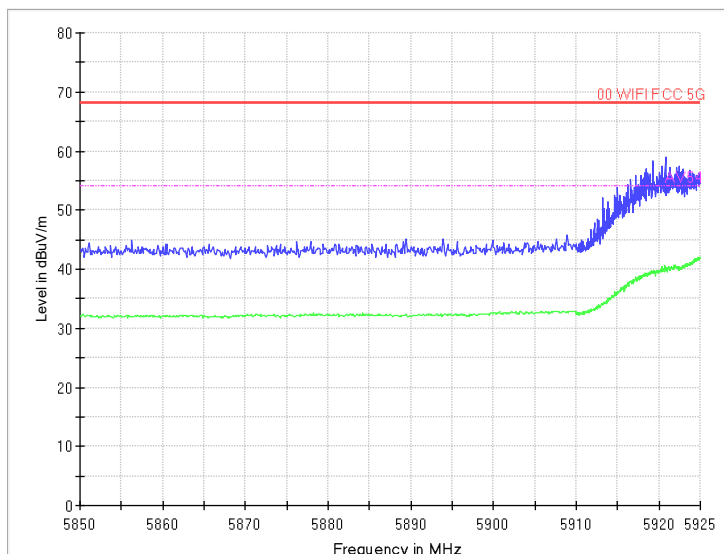


Radiated Emission Band Edge
Channel No.:233
Test Mode: 802.11 ax(HE20)
Polarization: V

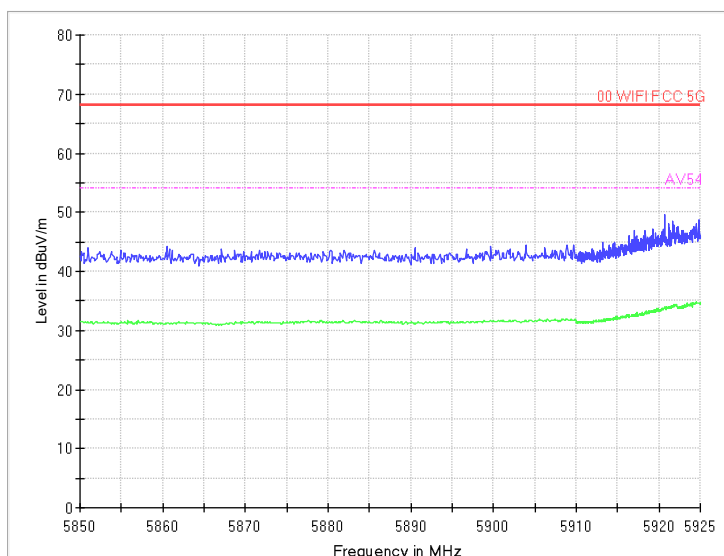


Radiated Emission Band Edge
Channel No.:233
Test Mode: 802.11 ax(HE20)
Polarization: H

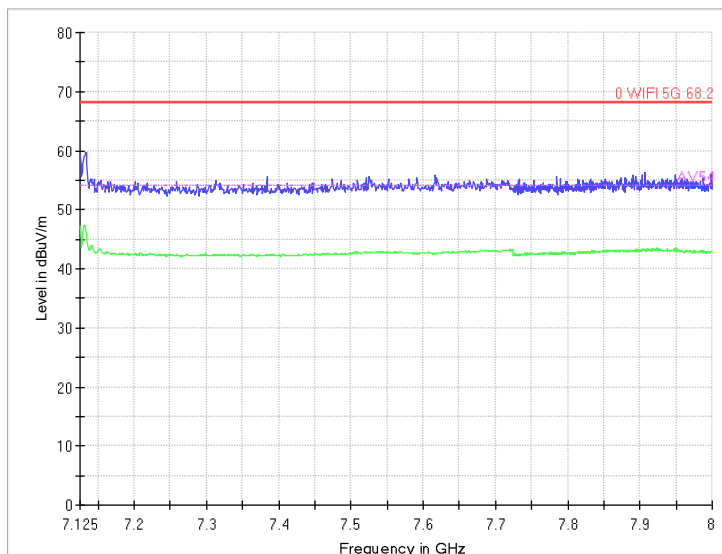
40M



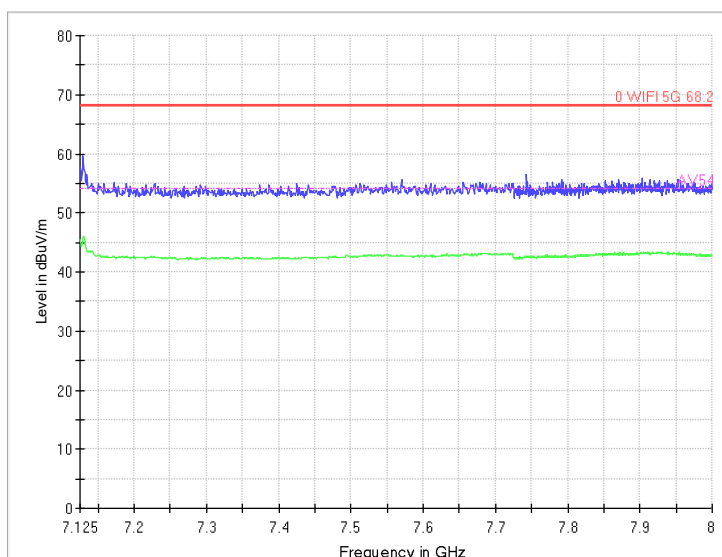
Radiated Emission Band Edge
Channel No.:3
Test Mode: 802.11ax(HE40)
Polarization: V



Radiated Emission Band Edge
Channel No.:3
Test Mode: 802.11 ax(HE40)
Polarization: H

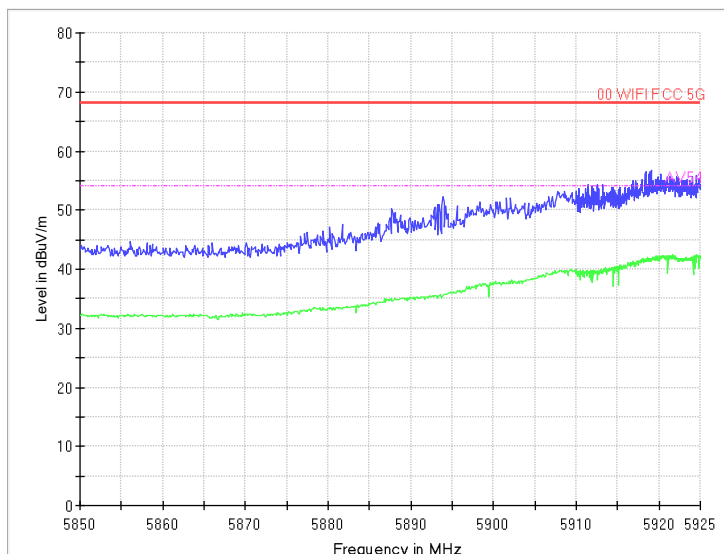


Radiated Emission Band Edge
Channel No.:227
Test Mode: 802.11 ax(HE40)
Polarization: V

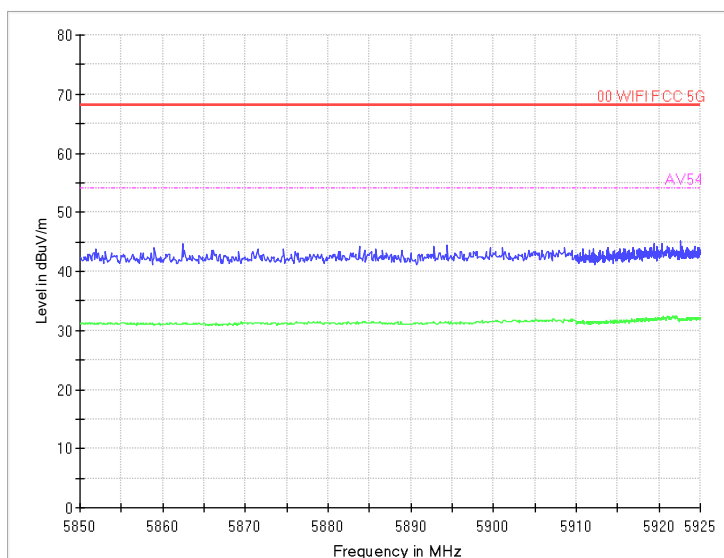


Radiated Emission Band Edge
Channel No.:227
Test Mode: 802.11 ax(HE40)
Polarization: H

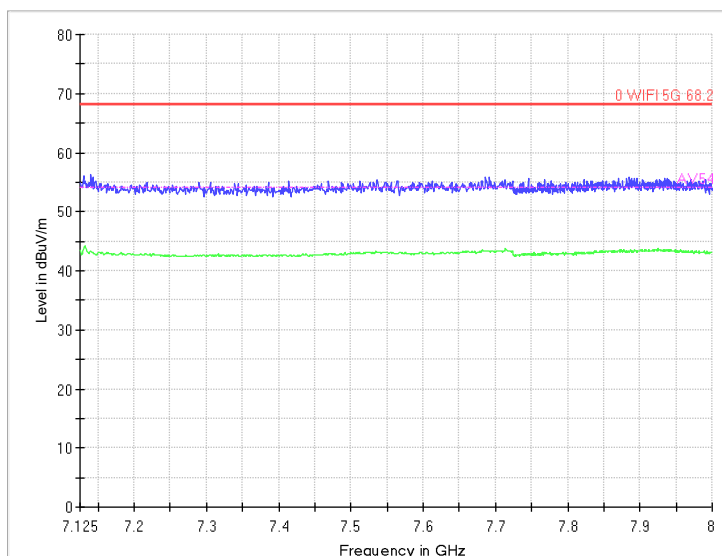
80M



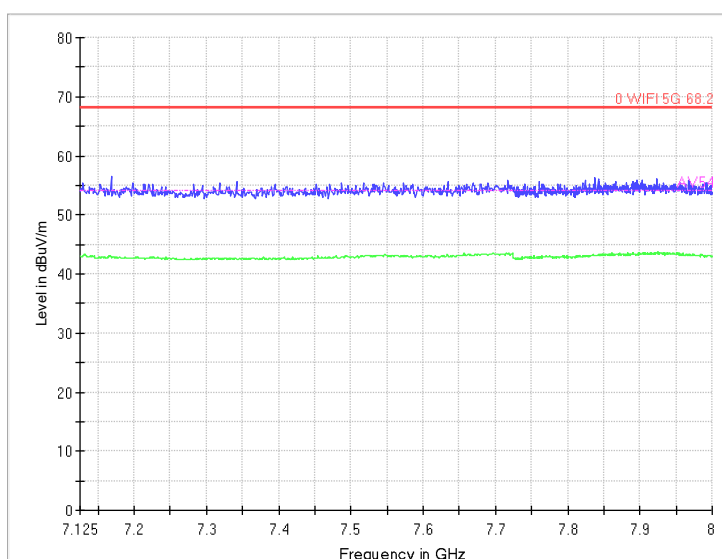
Radiated Emission Band Edge
Channel No.:7
Test Mode: 802.11ax(HE80)
Polarization: V



Radiated Emission Band Edge
Channel No.:7
Test Mode: 802.11ax(HE80)
Polarization: H

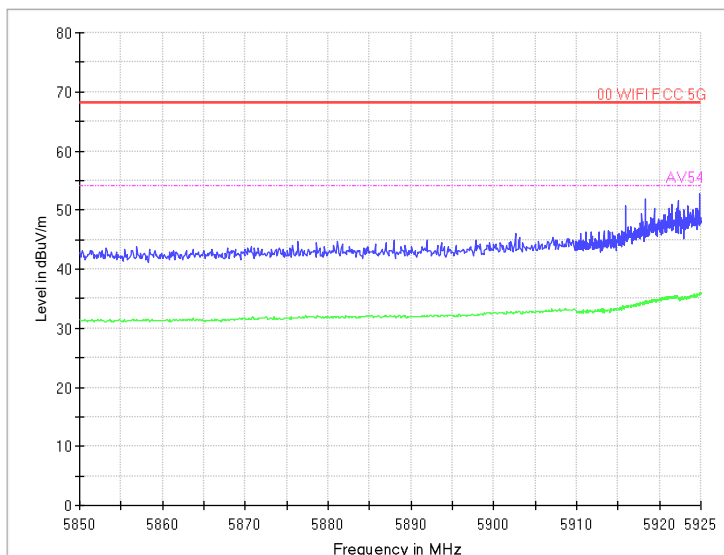


Radiated Emission Band Edge
Channel No.:215
Test Mode: 802.11ax(HE80)
Polarization: V

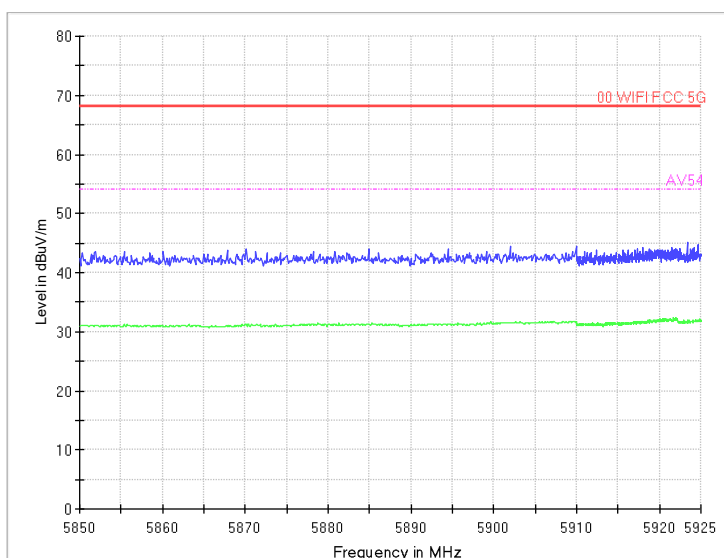


Radiated Emission Band Edge
Channel No.:215
Test Mode: 802.11ax(HE80)
Polarization: H

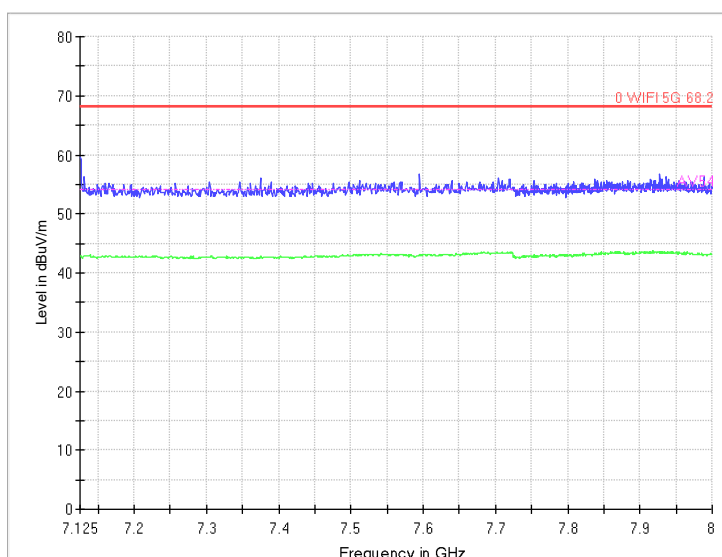
Partial ru(Tone26) 20M



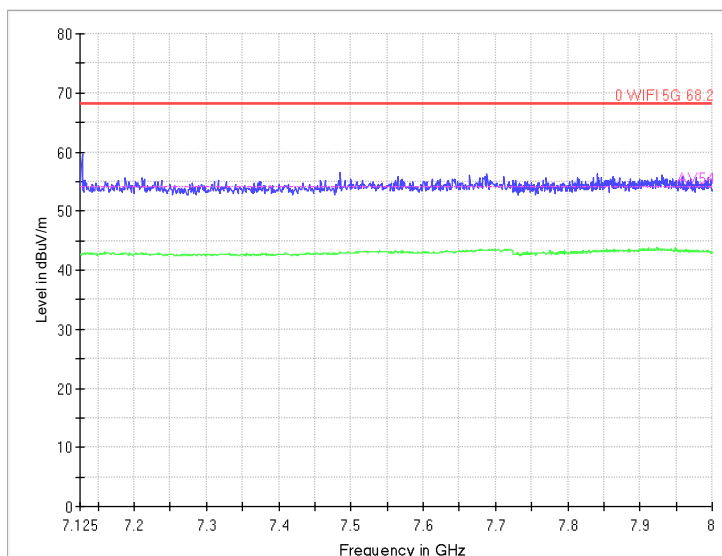
Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11ax(HE20)
Polarization: V



Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11 ax(HE20)
Polarization: H

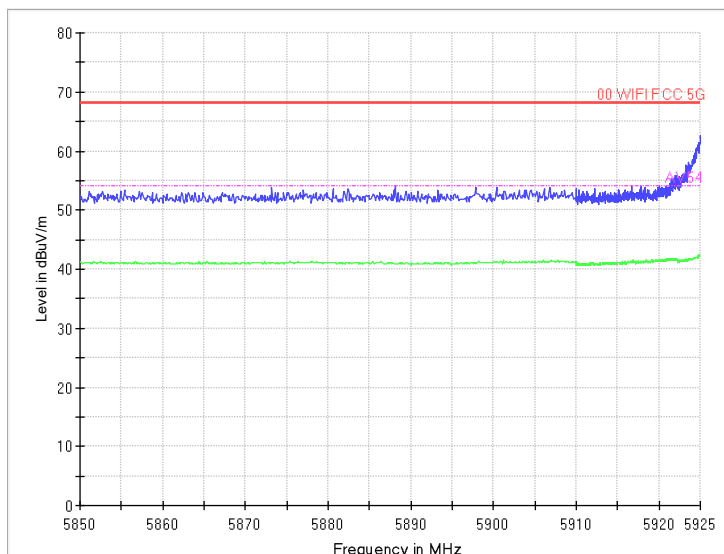


Radiated Emission Band Edge
Channel No.:233
Test Mode: 802.11 ax(HE20)
Polarization: V

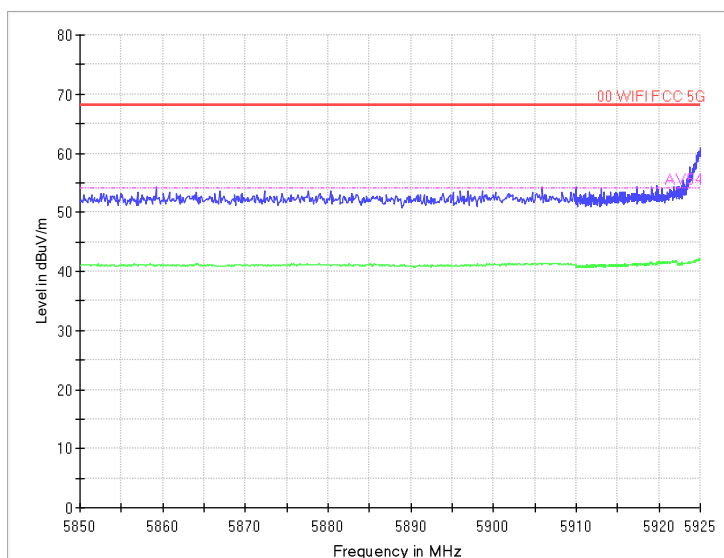


Radiated Emission Band Edge
Channel No.:233
Test Mode: 802.11 ax(HE20)
Polarization: H

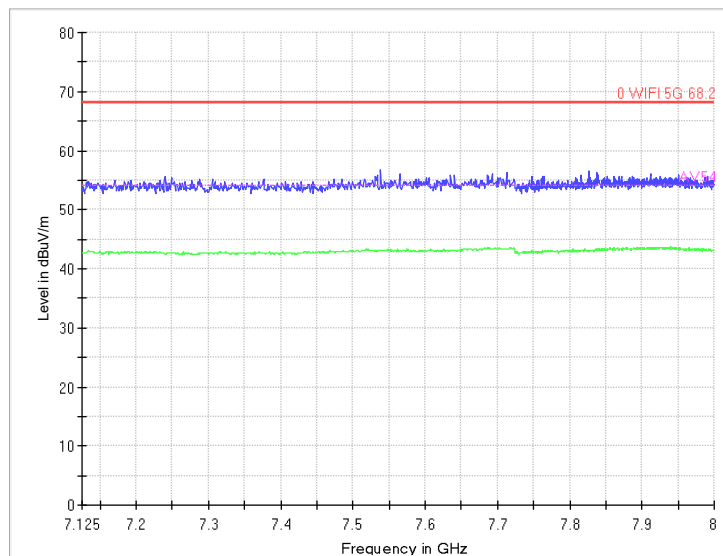
40M



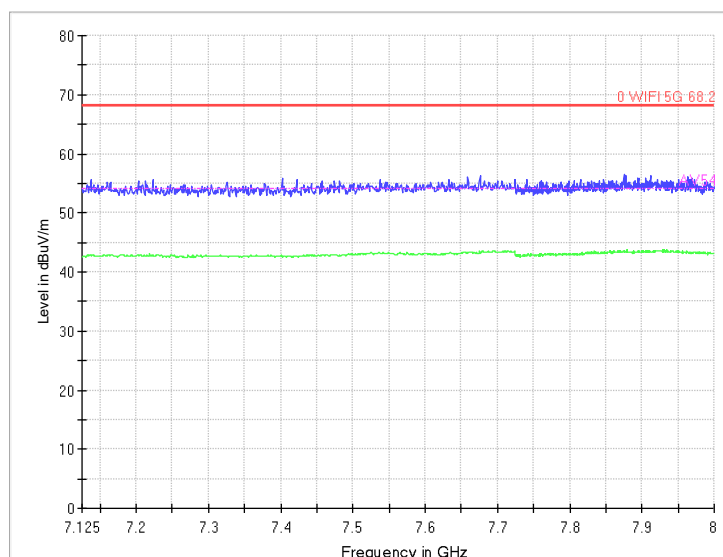
Radiated Emission Band Edge
Channel No.:3
Test Mode: 802.11ax(HE40)
Polarization: V



Radiated Emission Band Edge
Channel No.:3
Test Mode: 802.11 ax(HE40)
Polarization: H

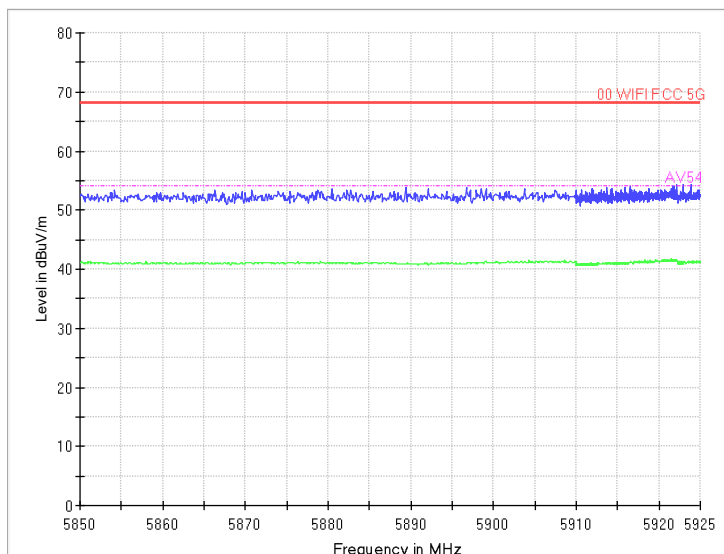


Radiated Emission Band Edge
Channel No.:227
Test Mode: 802.11 ax(HE40)
Polarization: V

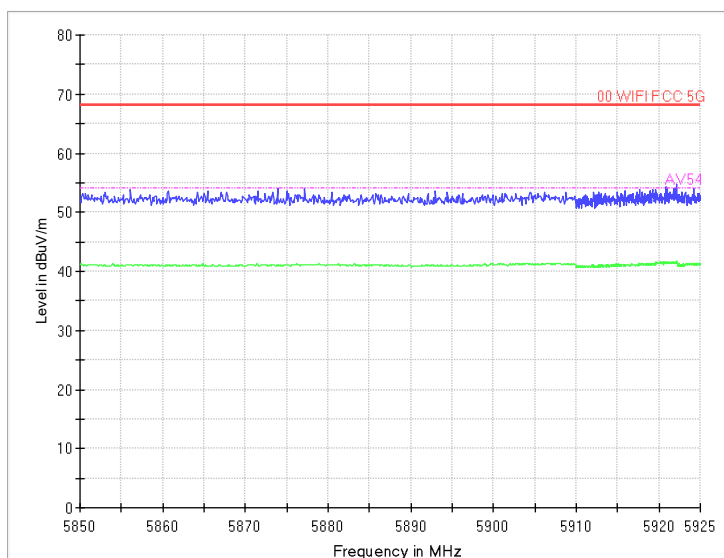


Radiated Emission Band Edge
Channel No.:227
Test Mode: 802.11 ax(HE40)
Polarization: H

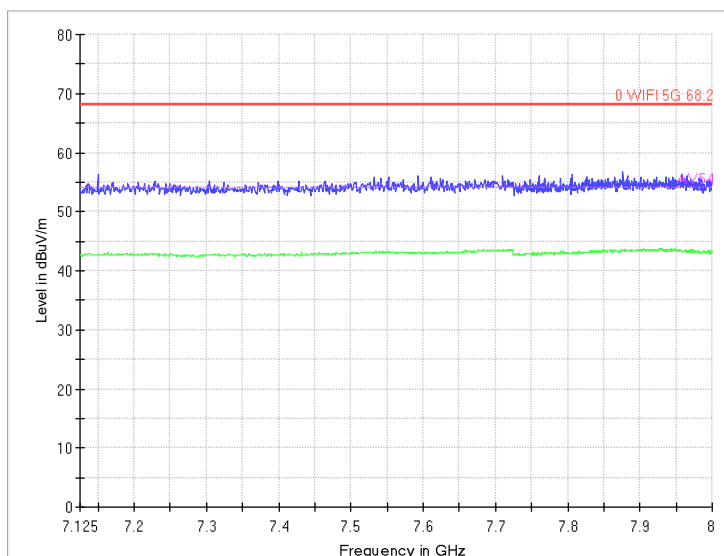
80M



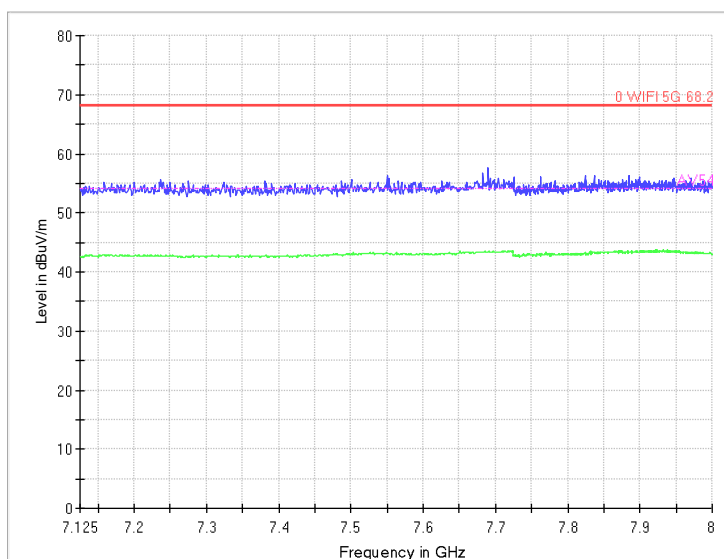
Radiated Emission Band Edge
Channel No.:7
Test Mode: 802.11ax(HE80)
Polarization: V



Radiated Emission Band Edge
Channel No.:7
Test Mode: 802.11ax(HE80)
Polarization: H



Radiated Emission Band Edge
Channel No.:215
Test Mode: 802.11ax(HE80)
Polarization: V



Radiated Emission Band Edge
Channel No.:215
Test Mode: 802.11ax(HE80)
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: $(19.42 \text{ dB}\mu\text{V/m}) = (38.22 \text{ dB}\mu\text{V}) + (-18.9 \text{ dB/m})$, the corresponding frequency is 47.8965 MHz.

For 802.11ax(HE20) Channel No.:1

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
47.8965	19.42	-18.9	38.32	Vertical	40	20.58
86.0175	9.68	-20.8	30.48	Vertical	40	30.32
96.5905	9.49	-19.6	29.09	Vertical	43.5	34.01
199.9925	17.5	-19.9	37.4	Vertical	43.5	26
436.3815	24.79	-13.5	38.29	Vertical	46	21.21
696.002	19.34	-8.8	28.14	Vertical	46	26.66

For 802.11ax(HE20) Channel No.:45

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
47.8965	19.16	-18.9	38.06	Vertical	40	20.84
85.581	9.9	-20.9	30.8	Vertical	40	30.1
163.0355	8.21	-22.1	30.31	Vertical	43.5	35.29
199.9925	17.57	-19.9	37.47	Vertical	43.5	25.93
436.3815	24.84	-13.5	38.34	Vertical	46	21.16
915.8525	16.16	-5.3	21.46	Vertical	46	29.84

For 802.11ax(HE20) Channel No.:93

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
47.8965	19.12	-18.9	38.02	Vertical	40	20.88
71.9525	8.97	-22.2	31.17	Vertical	40	31.03
165.897	11.02	-22	33.02	Vertical	43.5	32.48
199.9925	18.36	-19.9	38.26	Vertical	43.5	25.14
436.333	19.11	-13.5	32.61	Vertical	46	26.89
941.8	16.34	-5.1	21.44	Vertical	46	29.66

For 802.11ax(HE20) Channel No.:97

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
30.8245	19.17	-20.7	39.87	Vertical	40	20.83
78.694	4.98	-22.2	27.18	Vertical	40	35.02
99.9855	12.46	-19.5	31.96	Vertical	43.5	31.04



199.9925	18.24	-19.9	38.14	Vertical	43.5	25.26
436.333	19.13	-13.5	32.63	Vertical	46	26.87
949.269	16.29	-5.1	21.39	Vertical	46	29.71

For 802.11ax(HE20) Channel No.:105

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
30.097	19.21	-20.8	40.01	Vertical	40	20.79
71.9525	9.14	-22.2	31.34	Vertical	40	30.86
169.4375	9.23	-21.8	31.03	Vertical	43.5	34.27
199.9925	18.26	-19.9	38.16	Vertical	43.5	25.24
436.333	19.11	-13.5	32.61	Vertical	46	26.89
956.35	16.25	-5	21.25	Vertical	46	29.75

For 802.11ax(HE20) Channel No.:113

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
31.9885	19.09	-20.5	39.59	Vertical	40	20.91
71.9525	8.87	-22.2	31.07	Vertical	40	31.13
167.9825	14.01	-21.9	35.91	Vertical	43.5	29.49
199.9925	18.35	-19.9	38.25	Vertical	43.5	25.15
436.333	19.1	-13.5	32.6	Vertical	46	26.9
868.5165	15.25	-6	21.25	Vertical	46	30.75

For 802.11ax(HE20) Channel No.:117

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
51.3885	6.17	-19	25.17	Vertical	40	33.83
57.839	5.48	-19.6	25.08	Vertical	40	34.52
119.434	3.46	-20.4	23.86	Vertical	43.5	40.04
211.875	4.05	-19.6	23.65	Vertical	43.5	39.45
532.2175	11.3	-11.6	22.9	Vertical	46	34.7
946.747	16.28	-5.1	21.38	Vertical	46	29.72

For 802.11ax(HE20) Channel No.:149

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
38.8755	5.84	-19.3	25.14	Vertical	40	34.16
58.7605	5.33	-19.7	25.03	Vertical	40	34.67
98.773	5.05	-19.5	24.55	Vertical	43.5	38.45
208.48	4.09	-19.7	23.79	Vertical	43.5	39.41
517.6675	10.89	-11.9	22.79	Vertical	46	35.11
949.9965	16.29	-5.1	21.39	Vertical	46	29.71

For 802.11ax(HE20) Channel No.:181



Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
47.8965	19.3	-18.9	38.2	Vertical	40	20.7
72.001	11.19	-22.2	33.39	Vertical	40	28.81
121.083	14.51	-20.6	35.11	Vertical	43.5	28.99
199.9925	18.37	-19.9	38.27	Vertical	43.5	25.13
436.333	19.07	-13.5	32.57	Vertical	46	26.93
770.304	13.88	-7.6	21.48	Vertical	46	32.12

For 802.11ax(HE20) Channel No.:189

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
31.552	18.71	-20.6	39.31	Vertical	40	21.29
72.001	11.21	-22.2	33.41	Vertical	40	28.79
167.9825	14.19	-21.9	36.09	Vertical	43.5	29.31
199.9925	18.22	-19.9	38.12	Vertical	43.5	25.28
436.333	19.14	-13.5	32.64	Vertical	46	26.86
947.038	16.33	-5.1	21.43	Vertical	46	29.67

For 802.11ax(HE20) Channel No.:209

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
30.7275	19.35	-20.7	40.05	Vertical	40	20.65
71.9525	9.03	-22.2	31.23	Vertical	40	30.97
148.0005	11.38	-22.6	33.98	Vertical	43.5	32.12
199.9925	18.22	-19.9	38.12	Vertical	43.5	25.28
436.333	19.15	-13.5	32.65	Vertical	46	26.85
916.289	16.06	-5.3	21.36	Vertical	46	29.94

For 802.11ax(HE20) Channel No.:233

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
30.6305	19.63	-20.7	40.33	Vertical	40	20.37
71.9525	9.05	-22.2	31.25	Vertical	40	30.95
167.9825	14.69	-21.9	36.59	Vertical	43.5	28.81
199.9925	18.27	-19.9	38.17	Vertical	43.5	25.23
436.333	19.16	-13.5	32.66	Vertical	46	26.84
939.8115	16.36	-5.1	21.46	Vertical	46	29.64

For 802.11ax(HE40)Channel No.:3

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
32.2795	18.9	-20.5	39.4	Vertical	40	21.1
71.9525	9.05	-22.2	31.25	Vertical	40	30.95
122.1015	15.16	-20.7	35.86	Vertical	43.5	28.34
199.9925	18.31	-19.9	38.21	Vertical	43.5	25.19



436.333	19.17	-13.5	32.67	Vertical	46	26.83
830.929	14.88	-6.6	21.48	Vertical	46	31.12

For 802.11ax(HE40)Channel No.:43

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
30.1455	19.46	-20.8	40.26	Vertical	40	20.54
82.2345	5.72	-21.7	27.42	Vertical	40	34.28
99.6945	8.99	-19.5	28.49	Vertical	43.5	34.51
199.9925	18.24	-19.9	38.14	Vertical	43.5	25.26
436.333	19.1	-13.5	32.6	Vertical	46	26.9
957.126	16.26	-5	21.26	Vertical	46	29.74

For 802.11ax(HE40)Channel No.:91

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
30.194	19.5	-20.8	40.3	Vertical	40	20.5
71.9525	8.87	-22.2	31.07	Vertical	40	31.13
122.5865	14.33	-20.8	35.13	Vertical	43.5	29.17
199.9925	18.29	-19.9	38.19	Vertical	43.5	25.21
436.333	19.1	-13.5	32.6	Vertical	46	26.9
948.493	16.31	-5.1	21.41	Vertical	46	29.69

For 802.11ax(HE40)Channel No.:99

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
47.8965	19.26	-18.9	38.16	Vertical	40	20.74
71.9525	8.98	-22.2	31.18	Vertical	40	31.02
146.982	12.25	-22.6	34.85	Vertical	43.5	31.25
199.9925	18.24	-19.9	38.14	Vertical	43.5	25.26
436.333	19.11	-13.5	32.61	Vertical	46	26.89
958.775	16.21	-5	21.21	Vertical	46	29.79

For 802.11ax(HE40)Channel No.:107

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
47.945	20.04	-18.9	38.94	Vertical	40	19.96
71.9525	9.4	-22.2	31.6	Vertical	40	30.6
167.9825	15.89	-21.9	37.79	Vertical	43.5	27.61
199.9925	18.28	-19.9	38.18	Vertical	43.5	25.22
436.333	19.19	-13.5	32.69	Vertical	46	26.81
928.317	16.3	-5.2	21.5	Vertical	46	29.7

For 802.11ax(HE40)Channel No.:123

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
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30.2425	19.55	-20.8	40.35	Vertical	40	20.45
72.001	11.29	-22.2	33.49	Vertical	40	28.71
166.3335	12.74	-22	34.74	Vertical	43.5	30.76
179.089	12.08	-21.4	33.48	Vertical	43.5	31.42
436.3815	20.15	-13.5	33.65	Vertical	46	25.85
944.128	16.27	-5.1	21.37	Vertical	46	29.73

For 802.11ax(HE40)Channel No.:147

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
30.582	19.37	-20.7	40.07	Vertical	40	20.63
71.9525	8.99	-22.2	31.19	Vertical	40	31.01
169.195	11.84	-21.8	33.64	Vertical	43.5	31.66
199.9925	18.18	-19.9	38.08	Vertical	43.5	25.32
436.3815	20.16	-13.5	33.66	Vertical	46	25.84
664.9135	14.58	-9.3	23.88	Vertical	46	31.42

For 802.11ax(HE40)Channel No.:179

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
30.8245	19.24	-20.7	39.94	Vertical	40	20.76
71.9525	8.83	-22.2	31.03	Vertical	40	31.17
119.0945	14.15	-20.4	34.55	Vertical	43.5	29.35
199.9925	18.29	-19.9	38.19	Vertical	43.5	25.21
436.333	19.11	-13.5	32.61	Vertical	46	26.89
939.2295	16.29	-5.1	21.39	Vertical	46	29.71

For 802.11ax(HE40)Channel No.:195

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
32.522	20.28	-20.4	40.68	Vertical	40	19.72
72.001	11.76	-22.2	33.96	Vertical	40	28.24
119.9675	3.68	-20.4	24.08	Vertical	43.5	39.82
199.9925	5.43	-19.9	25.33	Vertical	43.5	38.07
436.333	10.14	-13.5	23.64	Vertical	46	35.86
955.283	16.17	-5	21.17	Vertical	46	29.83

For 802.11ax(HE40)Channel No.:211

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
30.776	16.6	-20.7	37.3	Vertical	40	23.4
57.5965	7.85	-19.6	27.45	Vertical	40	32.15
162.2595	12.11	-22.1	34.21	Vertical	43.5	31.39
199.9925	18.7	-19.9	38.6	Vertical	43.5	24.8
436.333	19.43	-13.5	32.93	Vertical	46	26.57
907.0255	15.99	-5.4	21.39	Vertical	46	30.01



For 802.11ax(HE40)Channel No.:227

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
47.8965	18.91	-18.9	37.81	Vertical	40	21.09
56.3355	6.06	-19.5	25.56	Vertical	40	33.94
129.425	6.43	-21.7	28.13	Vertical	43.5	37.07
199.9925	19.54	-19.9	39.44	Vertical	43.5	23.96
436.333	19.4	-13.5	32.9	Vertical	46	26.6
951.1605	16.28	-5.1	21.38	Vertical	46	29.72

For 802.11ax(HE80)Channel No.:7

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
47.8965	18.94	-18.9	37.84	Vertical	40	21.06
58.8575	12.37	-19.7	32.07	Vertical	40	27.63
124.6235	16.29	-21.1	37.39	Vertical	43.5	27.21
199.9925	18.6	-19.9	38.5	Vertical	43.5	24.9
436.3815	15.66	-13.5	29.16	Vertical	46	30.34
955.186	16.32	-5	21.32	Vertical	46	29.68

For 802.11ax(HE80)Channel No.:39

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
47.8965	18.61	-18.9	37.51	Vertical	40	21.39
64.435	7.34	-21	28.34	Vertical	40	32.66
119.9675	13.11	-20.4	33.51	Vertical	43.5	30.39
199.9925	18.61	-19.9	38.51	Vertical	43.5	24.89
436.3815	20.37	-13.5	33.87	Vertical	46	25.63
905.813	15.96	-5.4	21.36	Vertical	46	30.04

For 802.11ax(HE80)Channel No.:87

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
47.8965	18.85	-18.9	37.75	Vertical	40	21.15
72.001	9.38	-22.2	31.58	Vertical	40	30.62
167.9825	15.4	-21.9	37.3	Vertical	43.5	28.1
199.9925	18.62	-19.9	38.52	Vertical	43.5	24.88
436.333	19.36	-13.5	32.86	Vertical	46	26.64
954.119	16.29	-5	21.29	Vertical	46	29.71

For 802.11ax(HE80)Channel No.:103

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
40.864	4.69	-19.1	23.79	Vertical	40	35.31
65.502	3.69	-21.2	24.89	Vertical	40	36.31
99.2095	4.79	-19.5	24.29	Vertical	43.5	38.71
308.7295	6.5	-16.9	23.4	Vertical	46	39.5



490.7015	9.92	-12.4	22.32	Vertical	46	36.08
958.484	16.08	-5	21.08	Vertical	46	29.92

For 802.11ax(HE80)Channel No.:135

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
41.2035	4.28	-19.1	23.38	Vertical	40	35.72
85.193	3.92	-21	24.92	Vertical	40	36.08
101.6345	3.65	-19.5	23.15	Vertical	43.5	39.85
300.1935	6.05	-17.1	23.15	Vertical	46	39.95
524.7485	11.07	-11.8	22.87	Vertical	46	34.93
929.093	16.03	-5.2	21.23	Vertical	46	29.97

For 802.11ax(HE80)Channel No.:151

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
43.9195	5.27	-19	24.27	Vertical	40	34.73
54.25	3.69	-19.3	22.99	Vertical	40	36.31
102.9925	4.45	-19.5	23.95	Vertical	43.5	39.05
196.452	3.48	-20.1	23.58	Vertical	43.5	40.02
520.335	10.91	-11.8	22.71	Vertical	46	35.09
924.0975	15.96	-5.3	21.26	Vertical	46	30.04

For 802.11ax(HE80)Channel No.:167

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
32.9585	4.77	-20.4	25.17	Vertical	40	35.23
57.3055	5.18	-19.6	24.78	Vertical	40	34.82
108.764	3.91	-19.7	23.61	Vertical	43.5	39.59
289.766	6.07	-17.4	23.47	Vertical	46	39.93
545.7005	11.24	-11.2	22.44	Vertical	46	34.76
954.9435	16.09	-5	21.09	Vertical	46	29.91

For 802.11ax(HE80)Channel No.:199

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
33.104	4.89	-20.3	25.19	Vertical	40	35.11
57.257	5.08	-19.6	24.68	Vertical	40	34.92
98.579	5.03	-19.5	24.53	Vertical	43.5	38.47
201.8355	3.81	-19.9	23.71	Vertical	43.5	39.69
517.3765	10.7	-11.9	22.6	Vertical	46	35.3
913.767	15.86	-5.3	21.16	Vertical	46	30.14

For 802.11ax(HE80)Channel No.:215

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
50.0305	4.99	-18.9	23.89	Vertical	40	35.01



58.3725	5.52	-19.7	25.22	Vertical	40	34.48
97.221	4.98	-19.6	24.58	Vertical	43.5	38.52
214.882	4.1	-19.5	23.6	Vertical	43.5	39.4
550.8415	11.17	-11.1	22.27	Vertical	46	34.83
954.1675	16.14	-5	21.14	Vertical	46	29.86

For 802.11a Channel No.:1

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
44.6955	6.03	-18.9	24.93	Vertical	40	33.97
58.3725	5.43	-19.7	25.13	Vertical	40	34.57
99.0155	4.89	-19.5	24.39	Vertical	43.5	38.61
215.8035	4.19	-19.4	23.59	Vertical	43.5	39.31
547.786	11.22	-11.2	22.42	Vertical	46	34.78
906.783	15.88	-5.4	21.28	Vertical	46	30.12

For 802.11a Channel No.:45

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
39.7	5.79	-19.2	24.99	Vertical	40	34.21
57.5965	5.46	-19.6	25.06	Vertical	40	34.54
105.078	5.1	-19.6	24.7	Vertical	43.5	38.4
270.1235	5.51	-17.9	23.41	Vertical	46	40.49
544.391	11.32	-11.3	22.62	Vertical	46	34.68
957.7565	16.17	-5	21.17	Vertical	46	29.83

For 802.11a Channel No.:93

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
45.52	6.1	-18.9	25	Vertical	40	33.9
57.063	5.1	-19.6	24.7	Vertical	40	34.9
98.7245	5.06	-19.5	24.56	Vertical	43.5	38.44
287.2925	5.79	-17.5	23.29	Vertical	46	40.21
535.467	11.07	-11.5	22.57	Vertical	46	34.93
958.193	16.13	-5	21.13	Vertical	46	29.87

For 802.11a Channel No.:97

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
39.991	5.63	-19.1	24.73	Vertical	40	34.37
58.6635	5.41	-19.7	25.11	Vertical	40	34.59
98.482	5.17	-19.5	24.67	Vertical	43.5	38.33
309.1175	6.61	-16.9	23.51	Vertical	46	39.39
554.382	11.11	-11.1	22.21	Vertical	46	34.89
881.6115	15.43	-5.8	21.23	Vertical	46	30.57

For 802.11a Channel No.:105



Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
51.534	6.14	-19	25.14	Vertical	40	33.86
85.581	3.96	-20.9	24.86	Vertical	40	36.04
97.803	5.22	-19.6	24.82	Vertical	43.5	38.28
297.235	6.48	-17.2	23.68	Vertical	46	39.52
442.347	9.98	-13.4	23.38	Vertical	46	36.02
870.2625	15.28	-6	21.28	Vertical	46	30.72

For 802.11a Channel No.:113

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
33.298	5.07	-20.3	25.37	Vertical	40	34.93
57.8875	5.52	-19.7	25.22	Vertical	40	34.48
98.288	5.18	-19.5	24.68	Vertical	43.5	38.32
290.9785	6.34	-17.4	23.74	Vertical	46	39.66
543.2755	11.28	-11.3	22.58	Vertical	46	34.72
914.2035	15.97	-5.3	21.27	Vertical	46	30.03

For 802.11a Channel No.:117

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
46.878	5.26	-18.9	24.16	Vertical	40	34.74
57.645	5.56	-19.6	25.16	Vertical	40	34.44
97.803	5.2	-19.6	24.8	Vertical	43.5	38.3
215.658	4.19	-19.5	23.69	Vertical	43.5	39.31
510.635	10.69	-12	22.69	Vertical	46	35.31
938.7445	16.2	-5.1	21.3	Vertical	46	29.8

For 802.11a Channel No.:149

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
50.952	5.92	-19	24.92	Vertical	40	34.08
58.13	5.5	-19.7	25.2	Vertical	40	34.5
101.974	3.86	-19.5	23.36	Vertical	43.5	39.64
205.5215	3.77	-19.8	23.57	Vertical	43.5	39.73
557.3405	10.99	-11	21.99	Vertical	46	35.01
928.22	16.24	-5.2	21.44	Vertical	46	29.76

For 802.11a Channel No.:181

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
39.2635	5.83	-19.3	25.13	Vertical	40	34.17
53.959	3.97	-19.3	23.27	Vertical	40	36.03
107.4545	3.61	-19.6	23.21	Vertical	43.5	39.89
200.2835	3.89	-19.9	23.79	Vertical	43.5	39.61



507.143	10.52	-12.1	22.62	Vertical	46	35.48
943.7885	16.29	-5.1	21.39	Vertical	46	29.71

For 802.11a Channel No.:189

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
46.7325	5.52	-18.9	24.42	Vertical	40	34.48
58.6635	5.38	-19.7	25.08	Vertical	40	34.62
105.078	5.02	-19.6	24.62	Vertical	43.5	38.48
301.8425	6.17	-17.1	23.27	Vertical	46	39.83
520.1895	11	-11.8	22.8	Vertical	46	35
943.2065	16.2	-5.1	21.3	Vertical	46	29.8

For 802.11a Channel No.:209

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
52.892	5.36	-19.2	24.56	Vertical	40	34.64
57.7905	5.61	-19.6	25.21	Vertical	40	34.39
99.6945	4.47	-19.5	23.97	Vertical	43.5	39.03
201.011	4.02	-19.9	23.92	Vertical	43.5	39.48
506.4155	10.58	-12.1	22.68	Vertical	46	35.42
905.0855	15.72	-5.4	21.12	Vertical	46	30.28

For 802.11a Channel No.:233

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
51.728	6.08	-19.1	25.18	Vertical	40	33.92
59.2455	4.86	-19.8	24.66	Vertical	40	35.14
98.482	5.12	-19.5	24.62	Vertical	43.5	38.38
207.4615	4.05	-19.7	23.75	Vertical	43.5	39.45
522.2265	10.82	-11.8	22.62	Vertical	46	35.18
932.294	16.23	-5.2	21.43	Vertical	46	29.77



Partial RU (Tone26)

For 802.11ax(HE20) Channel No.:1

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
51.4855	6.06	-19	25.06	Vertical	40	33.94
57.257	5.23	-19.6	24.83	Vertical	40	34.77
102.265	4.01	-19.5	23.51	Vertical	43.5	39.49
201.399	4.03	-19.9	23.93	Vertical	43.5	39.47
525.282	11.23	-11.7	22.93	Vertical	46	34.77
947.038	16.26	-5.1	21.36	Vertical	46	29.74

For 802.11ax(HE20) Channel No.:45

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
44.841	6.14	-18.9	25.04	Vertical	40	33.86
58.0815	5.53	-19.7	25.23	Vertical	40	34.47
96.5905	4.56	-19.6	24.16	Vertical	43.5	38.94
286.5165	5.88	-17.5	23.38	Vertical	46	40.12
510.732	10.76	-12	22.76	Vertical	46	35.24
938.405	16.29	-5.1	21.39	Vertical	46	29.71

For 802.11ax(HE20) Channel No.:93

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
39.894	5.74	-19.1	24.84	Vertical	40	34.26
58.4695	5.5	-19.7	25.2	Vertical	40	34.5
110.9465	5.09	-19.8	24.89	Vertical	43.5	38.41
203.727	3.73	-19.8	23.53	Vertical	43.5	39.77
519.9955	11.04	-11.8	22.84	Vertical	46	34.96
915.2705	16.09	-5.3	21.39	Vertical	46	29.91

For 802.11ax(HE20) Channel No.:97

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
34.8015	4.42	-20	24.42	Vertical	40	35.58
59.3425	4.8	-19.8	24.6	Vertical	40	35.2
104.9325	5.03	-19.6	24.63	Vertical	43.5	38.47
214.591	4.19	-19.5	23.69	Vertical	43.5	39.31
481.244	9.71	-12.6	22.31	Vertical	46	36.29
936.9015	16.29	-5.1	21.39	Vertical	46	29.71

For 802.11ax(HE20) Channel No.:105

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
45.5685	6.18	-18.9	25.08	Vertical	40	33.82
56.384	4.46	-19.5	23.96	Vertical	40	35.54
103.5745	4.95	-19.5	24.45	Vertical	43.5	38.55



303.637	6.5	-17	23.5	Vertical	46	39.5
516.649	10.79	-11.9	22.69	Vertical	46	35.21
910.1295	15.99	-5.4	21.39	Vertical	46	30.01

For 802.11ax(HE20) Channel No.:113

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
38.4875	5.61	-19.4	25.01	Vertical	40	34.39
63.465	3.93	-20.7	24.63	Vertical	40	36.07
98.4335	5.17	-19.5	24.67	Vertical	43.5	38.33
280.066	5.79	-17.7	23.49	Vertical	46	40.21
499.674	10.39	-12.3	22.69	Vertical	46	35.61
931.615	16.24	-5.2	21.44	Vertical	46	29.76

For 802.11ax(HE20) Channel No.:117

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
38.245	5.36	-19.4	24.76	Vertical	40	34.64
86.6965	3.72	-20.7	24.42	Vertical	40	36.28
110.413	4.99	-19.7	24.69	Vertical	43.5	38.51
304.413	6.61	-17	23.61	Vertical	46	39.39
554.1395	11	-11.1	22.1	Vertical	46	35
944.5645	16.28	-5.1	21.38	Vertical	46	29.72

For 802.11ax(HE20) Channel No.:149

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
46.684	5.47	-18.9	24.37	Vertical	40	34.53
85.8235	3.93	-20.9	24.83	Vertical	40	36.07
111.577	4.74	-19.8	24.54	Vertical	43.5	38.76
304.6555	6.63	-17	23.63	Vertical	46	39.37
524.312	11.06	-11.8	22.86	Vertical	46	34.94
901.6905	15.91	-5.5	21.41	Vertical	46	30.09

For 802.11ax(HE20) Channel No.:181

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
51.825	6.11	-19.1	25.21	Vertical	40	33.89
85.096	3.88	-21	24.88	Vertical	40	36.12
120.986	3.29	-20.6	23.89	Vertical	43.5	40.21
214.5425	4.14	-19.5	23.64	Vertical	43.5	39.36
516.4065	10.68	-11.9	22.58	Vertical	46	35.32
912.021	15.95	-5.4	21.35	Vertical	46	30.05

For 802.11ax(HE20) Channel No.:189

Frequency(MHz)	Result(dBuV/m)	ARpl	Pmea	Polarity	Limit	Margin
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		(dB)	(dBuV/m)		(dBuV/m)	(dB)
45.7625	6.17	-18.9	25.07	Vertical	40	33.83
56.966	5	-19.6	24.6	Vertical	40	35
114.487	3.63	-20	23.63	Vertical	43.5	39.87
208.577	4.06	-19.7	23.76	Vertical	43.5	39.44
499.7225	10.35	-12.3	22.65	Vertical	46	35.65
922.6425	15.99	-5.3	21.29	Vertical	46	30.01

For 802.11ax(HE20) Channel No.:209

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
39.5545	5.8	-19.2	25	Vertical	40	34.2
56.9175	5.01	-19.6	24.61	Vertical	40	34.99
110.4615	5.05	-19.7	24.75	Vertical	43.5	38.45
208.4315	4.13	-19.7	23.83	Vertical	43.5	39.37
548.1255	11.25	-11.2	22.45	Vertical	46	34.75
955.477	16.34	-5	21.34	Vertical	46	29.66

For 802.11ax(HE20) Channel No.:233

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
51.6795	6.12	-19.1	25.22	Vertical	40	33.88
58.324	5.49	-19.7	25.19	Vertical	40	34.51
104.3505	5.17	-19.6	24.77	Vertical	43.5	38.33
207.025	4.09	-19.7	23.79	Vertical	43.5	39.41
553.218	11.12	-11.1	22.22	Vertical	46	34.88
852.463	14.89	-6.2	21.09	Vertical	46	31.11

For 802.11ax(HE40)Channel No.:3

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
50.564	5.67	-18.9	24.57	Vertical	40	34.33
59.294	4.82	-19.8	24.62	Vertical	40	35.18
99.4035	4.77	-19.5	24.27	Vertical	43.5	38.73
211.9235	4.04	-19.5	23.54	Vertical	43.5	39.46
507.8705	10.54	-12	22.54	Vertical	46	35.46
926.377	16.23	-5.2	21.43	Vertical	46	29.77

For 802.11ax(HE40)Channel No.:43

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
33.589	5.22	-20.3	25.52	Vertical	40	34.78
58.6635	5.36	-19.7	25.06	Vertical	40	34.64
103.817	5.1	-19.5	24.6	Vertical	43.5	38.4
285.595	6.08	-17.5	23.58	Vertical	46	39.92
508.016	10.55	-12	22.55	Vertical	46	35.45



936.756	16.25	-5.1	21.35	Vertical	46	29.75
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For 802.11ax(HE40)Channel No.:91

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
39.0695	5.9	-19.3	25.2	Vertical	40	34.1
59.585	4.58	-19.8	24.38	Vertical	40	35.42
103.2835	4.76	-19.5	24.26	Vertical	43.5	38.74
208.9165	4.1	-19.6	23.7	Vertical	43.5	39.4
542.16	11.24	-11.3	22.54	Vertical	46	34.76
950.0935	16.33	-5.1	21.43	Vertical	46	29.67

For 802.11ax(HE40)Channel No.:99

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
46.2475	5.87	-18.9	24.77	Vertical	40	34.13
84.2715	3.64	-21.2	24.84	Vertical	40	36.36
102.9925	4.53	-19.5	24.03	Vertical	43.5	38.97
211.778	3.99	-19.6	23.59	Vertical	43.5	39.51
503.3115	10.37	-12.2	22.57	Vertical	46	35.63
936.853	16.27	-5.1	21.37	Vertical	46	29.73

For 802.11ax(HE40)Channel No.:107

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
39.4575	5.9	-19.2	25.1	Vertical	40	34.1
57.0145	5.02	-19.6	24.62	Vertical	40	34.98
111.48	4.91	-19.8	24.71	Vertical	43.5	38.59
310.039	6.77	-16.8	23.57	Vertical	46	39.23
510.635	10.72	-12	22.72	Vertical	46	35.28
914.0095	16.09	-5.3	21.39	Vertical	46	29.91

For 802.11ax(HE40)Channel No.:123

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
50.4185	5.49	-18.9	24.39	Vertical	40	34.51
77.3845	2.62	-22.2	24.82	Vertical	40	37.38
105.7085	4.61	-19.6	24.21	Vertical	43.5	38.89
208.383	4.12	-19.7	23.82	Vertical	43.5	39.38
524.797	11.18	-11.8	22.98	Vertical	46	34.82
955.38	16.26	-5	21.26	Vertical	46	29.74

For 802.11ax(HE40)Channel No.:147

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
45.3745	6.17	-18.9	25.07	Vertical	40	33.83



57.2085	5.25	-19.6	24.85	Vertical	40	34.75
110.607	5.02	-19.8	24.82	Vertical	43.5	38.48
209.159	4.08	-19.6	23.68	Vertical	43.5	39.42
525.767	11.29	-11.7	22.99	Vertical	46	34.71
951.4515	16.24	-5.1	21.34	Vertical	46	29.76

For 802.11ax(HE40)Channel No.:179

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
51.049	6.01	-19	25.01	Vertical	40	33.99
58.9545	5.11	-19.8	24.91	Vertical	40	34.89
123.12	3.88	-20.9	24.78	Vertical	43.5	39.62
308.0505	6.51	-16.9	23.41	Vertical	46	39.49
534.206	11.21	-11.5	22.71	Vertical	46	34.79
904.261	15.84	-5.5	21.34	Vertical	46	30.16

For 802.11ax(HE40)Channel No.:195

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
50.4185	5.53	-18.9	24.43	Vertical	40	34.47
57.8875	5.57	-19.7	25.27	Vertical	40	34.43
98.094	5.19	-19.5	24.69	Vertical	43.5	38.31
259.0655	5.19	-18.3	23.49	Vertical	46	40.81
556.031	10.98	-11	21.98	Vertical	46	35.02
907.4135	15.94	-5.4	21.34	Vertical	46	30.06

For 802.11ax(HE40)Channel No.:211

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
51.534	6.14	-19	25.14	Vertical	40	33.86
57.4995	5.45	-19.6	25.05	Vertical	40	34.55
106.145	4.33	-19.6	23.93	Vertical	43.5	39.17
210.6625	4.06	-19.6	23.66	Vertical	43.5	39.44
520.432	10.98	-11.8	22.78	Vertical	46	35.02
890.4385	15.59	-5.7	21.29	Vertical	46	30.41

For 802.11ax(HE40)Channel No.:227

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
46.5385	5.61	-18.9	24.51	Vertical	40	34.39
58.0815	5.56	-19.7	25.26	Vertical	40	34.44
99.1125	4.91	-19.5	24.41	Vertical	43.5	38.59
198.7315	3.61	-20	23.61	Vertical	43.5	39.89
544.585	11.3	-11.3	22.6	Vertical	46	34.7
912.506	16.04	-5.3	21.34	Vertical	46	29.96

For 802.11ax(HE80)Channel No.:7

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
39.4575	5.89	-19.2	25.09	Vertical	40	34.11
57.2085	5.24	-19.6	24.84	Vertical	40	34.76
101.2465	3.73	-19.5	23.23	Vertical	43.5	39.77
285.4495	6.15	-17.5	23.65	Vertical	46	39.85
506.561	10.59	-12.1	22.69	Vertical	46	35.41
898.5865	15.81	-5.6	21.41	Vertical	46	30.19

For 802.11ax(HE80)Channel No.:39

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
45.229	6.17	-18.9	25.07	Vertical	40	33.83
61.622	2.99	-20.3	23.29	Vertical	40	37.01
97.1725	5.03	-19.6	24.63	Vertical	43.5	38.47
301.6	6.19	-17.1	23.29	Vertical	46	39.81
512.3325	10.87	-12	22.87	Vertical	46	35.13
958.387	16.19	-5	21.19	Vertical	46	29.81

For 802.11ax(HE80)Channel No.:87

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
47.169	4.88	-18.9	23.78	Vertical	40	35.12
85.5325	3.98	-20.9	24.88	Vertical	40	36.02
99.5005	4.69	-19.5	24.19	Vertical	43.5	38.81
214.106	4.17	-19.5	23.67	Vertical	43.5	39.33
538.086	11.32	-11.4	22.72	Vertical	46	34.68
951.791	16.29	-5.1	21.39	Vertical	46	29.71

For 802.11ax(HE80)Channel No.:103

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
51.2915	6.12	-19	25.12	Vertical	40	33.88
56.3355	4.41	-19.5	23.91	Vertical	40	35.59
104.981	5.13	-19.6	24.73	Vertical	43.5	38.37
208.965	4.07	-19.6	23.67	Vertical	43.5	39.43
544.4395	11.37	-11.3	22.67	Vertical	46	34.63
944.419	16.25	-5.1	21.35	Vertical	46	29.75

For 802.11ax(HE80)Channel No.:135

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
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50.2245	5.29	-18.9	24.19	Vertical	40	34.71
72.001	2.58	-22.2	24.78	Vertical	40	37.42
98.288	5.22	-19.5	24.72	Vertical	43.5	38.28
289.8145	6.24	-17.4	23.64	Vertical	46	39.76
512.09	10.87	-12	22.87	Vertical	46	35.13
931.615	16.21	-5.2	21.41	Vertical	46	29.79

For 802.11ax(HE80)Channel No.:151

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
33.4435	5.2	-20.3	25.5	Vertical	40	34.8
58.1785	5.62	-19.7	25.32	Vertical	40	34.38
110.801	5.03	-19.8	24.83	Vertical	43.5	38.47
196.0155	3.68	-20.2	23.88	Vertical	43.5	39.82
483.766	9.82	-12.6	22.42	Vertical	46	36.18
958.096	16.2	-5	21.2	Vertical	46	29.8

For 802.11ax(HE80)Channel No.:167

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
44.453	5.94	-18.9	24.84	Vertical	40	34.06
57.936	5.6	-19.7	25.3	Vertical	40	34.4
118.173	4.3	-20.3	24.6	Vertical	43.5	39.2
279.7265	5.83	-17.7	23.53	Vertical	46	40.17
520.82	10.99	-11.8	22.79	Vertical	46	35.01
939.4235	16.28	-5.1	21.38	Vertical	46	29.72

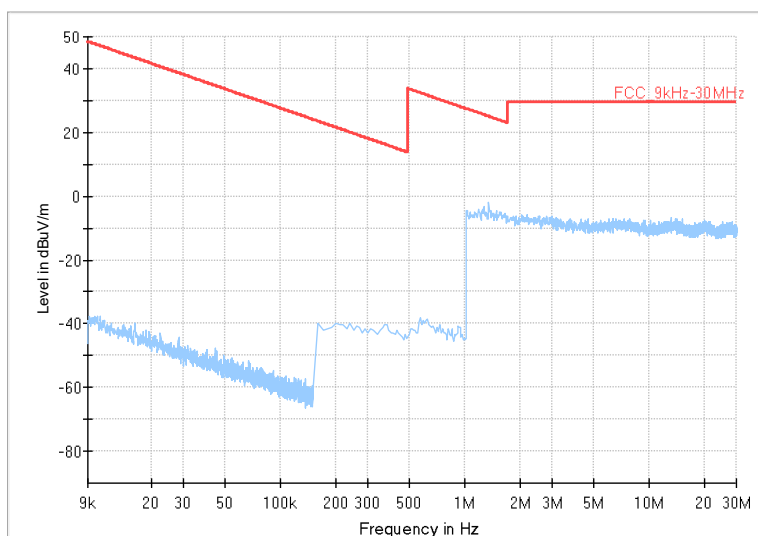
For 802.11ax(HE80)Channel No.:199

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
40.2335	5.41	-19.1	24.51	Vertical	40	34.59
57.8875	5.57	-19.7	25.27	Vertical	40	34.43
104.884	5.15	-19.6	24.75	Vertical	43.5	38.35
206.9765	4.06	-19.7	23.76	Vertical	43.5	39.44
547.8345	11.26	-11.2	22.46	Vertical	46	34.74
955.0405	16.25	-5	21.25	Vertical	46	29.75

For 802.11ax(HE80)Channel No.:215

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
39.312	5.95	-19.2	25.15	Vertical	40	34.05
63.8045	4.19	-20.8	24.99	Vertical	40	35.81
108.667	3.99	-19.7	23.69	Vertical	43.5	39.51
213.7665	4.13	-19.5	23.63	Vertical	43.5	39.37
503.845	10.49	-12.2	22.69	Vertical	46	35.51
945.3405	16.31	-5.1	21.41	Vertical	46	29.69

Full Spectrum



Frequency Range: 9kHz -30MHz

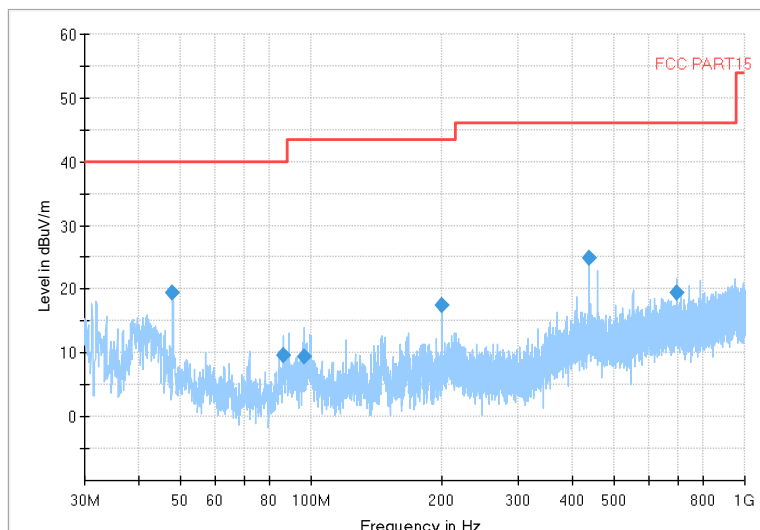
Detector: QP mode

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): 5955

Channel No.:1

Full Spectrum

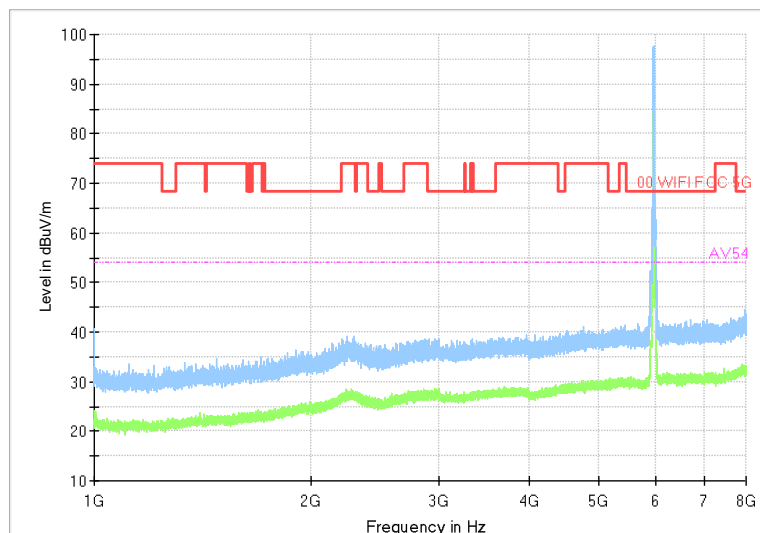


Frequency Range: 30MHz -1GHz

Detector: QP mode

Modulation type: 802.11ax(HE20)

Full Spectrum

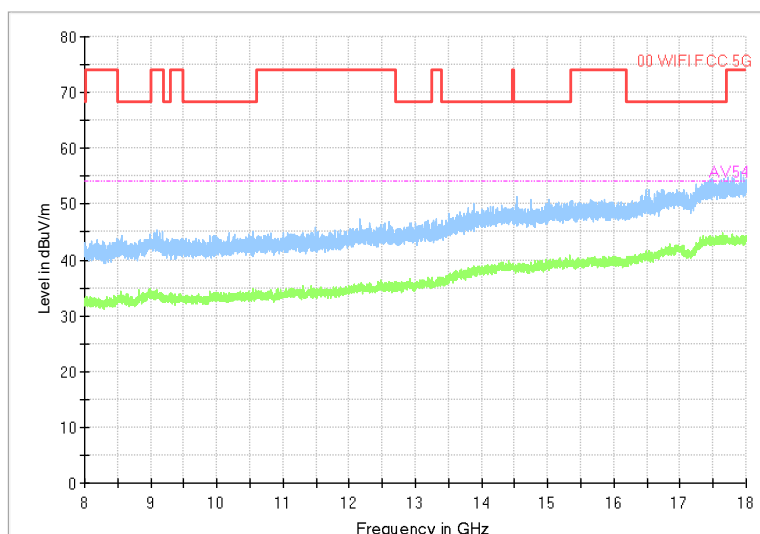


Frequency Range: 1GHz -8GHz

Detector: Av mode and PK mode

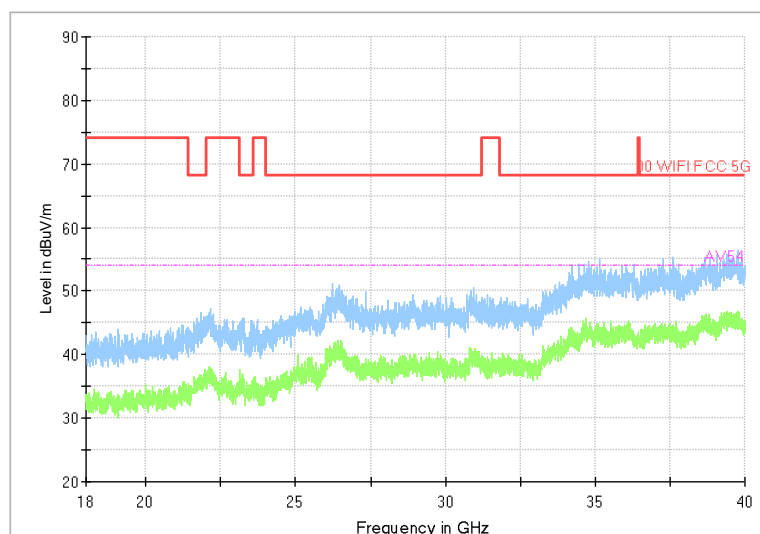
Modulation type: 802.11ax(HE20)

Full Spectrum



Frequency Range: 8GHz -18GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11ax(HE20)

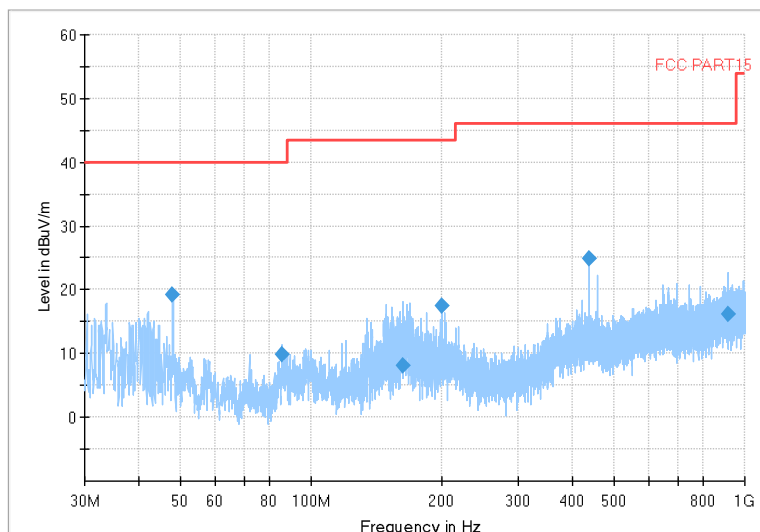
Full Spectrum



Frequency Range: 18GHz -40GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11ax(HE20)

Carrier frequency (MHz): 6175
 Channel No.:45

Full Spectrum

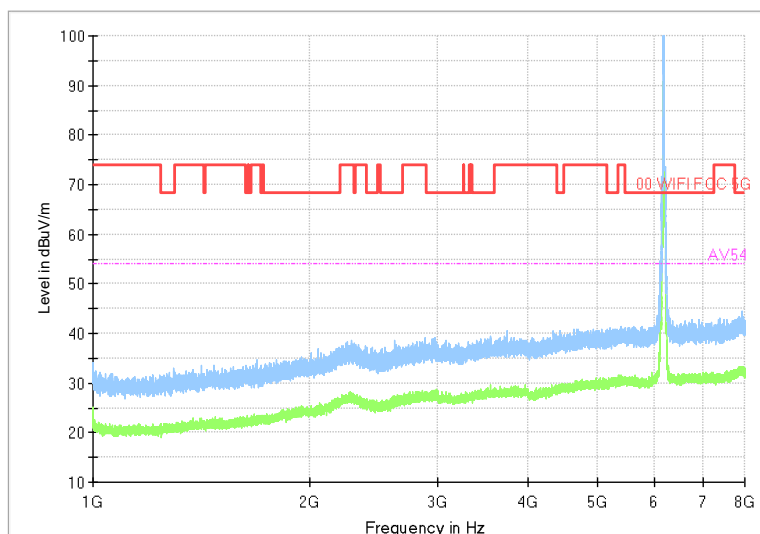


Frequency Range: 30MHz -1GHz

Detector: QP mode

Modulation type: 802.11ax(HE20)

Full Spectrum

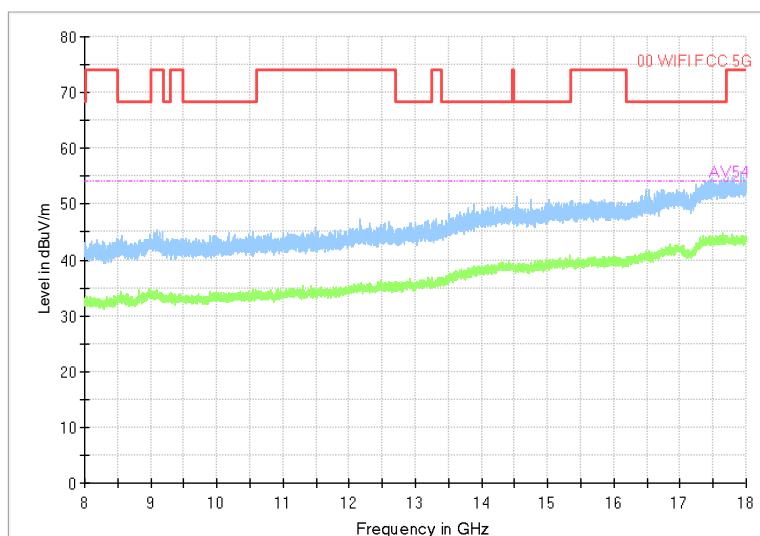


Frequency Range: 1GHz -8GHz

Detector: Av mode and PK mode

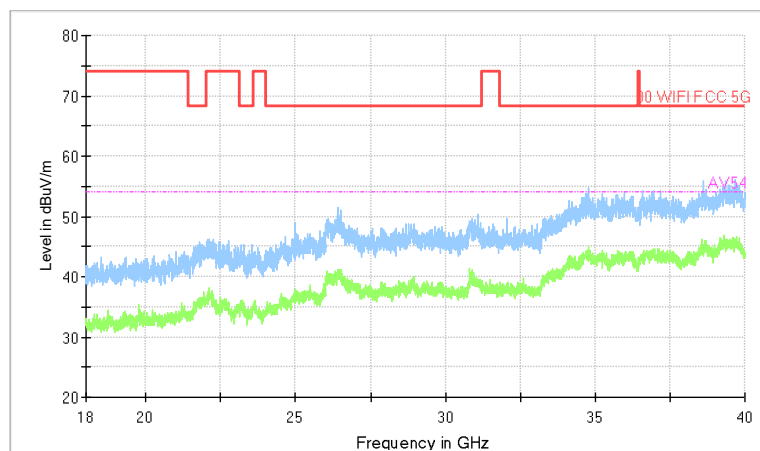
Modulation type: 802.11ax(HE20)

Full Spectrum



Frequency Range: 8GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11ax(HE20)

Full Spectrum



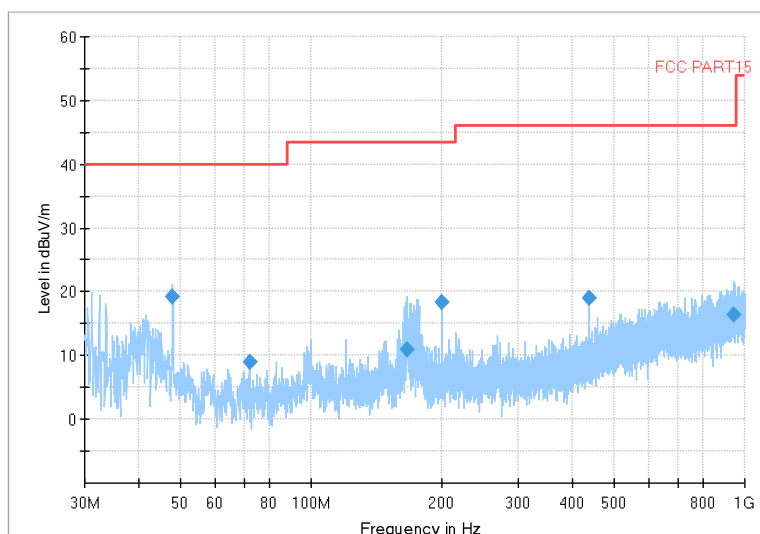
Preview Result2-AVG Preview Result1-PK+
00 WIFI FCC 5G AV54

Comment

Frequency Range: 18GHz -40GHz
Detector: Av mode and PK mode
Modulation type: 802.11ax(HE20)

Carrier frequency (MHz): 6415
Channel No.:93

Full Spectrum

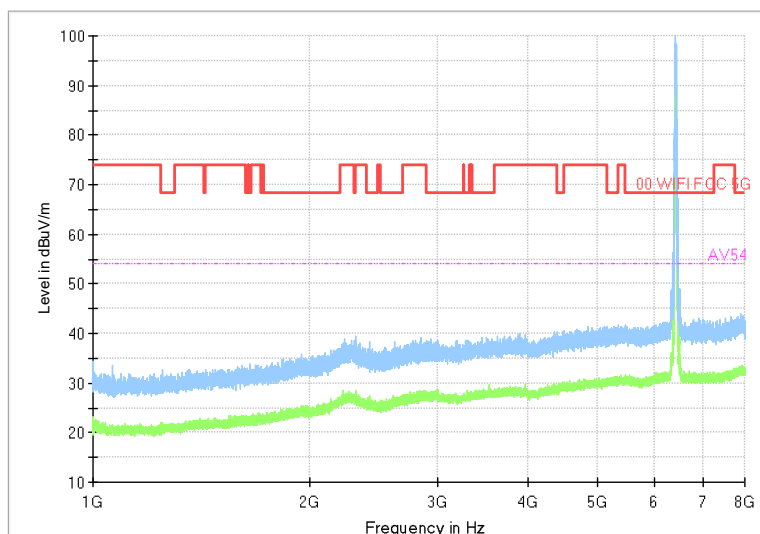


Frequency Range: 30MHz -1GHz

Detector: QP mode

Test Mode: 802.11ax(HE20)

Full Spectrum

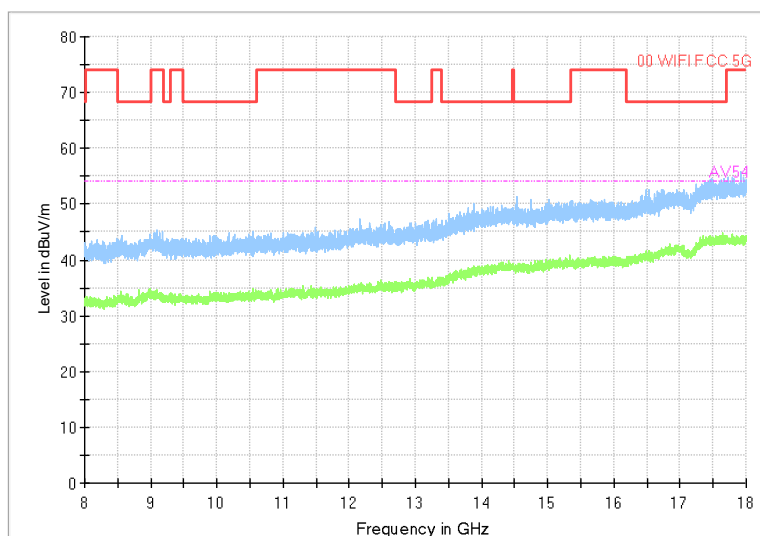


Frequency Range: 1GHz -8GHz

Detector: Av mode and PK mode

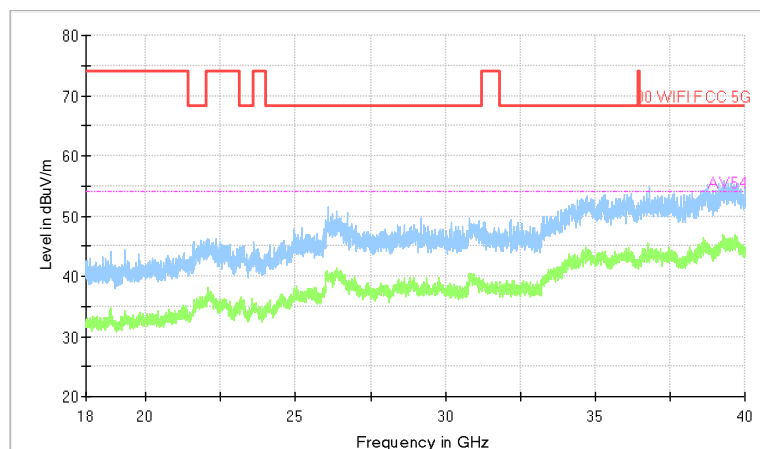
Test Mode: 802.11ax(HE20)

Full Spectrum



Frequency Range: 8GHz -18GHz
Detector: Av mode and PK mode
Test Mode: 802.11ax(HE20)

Full Spectrum



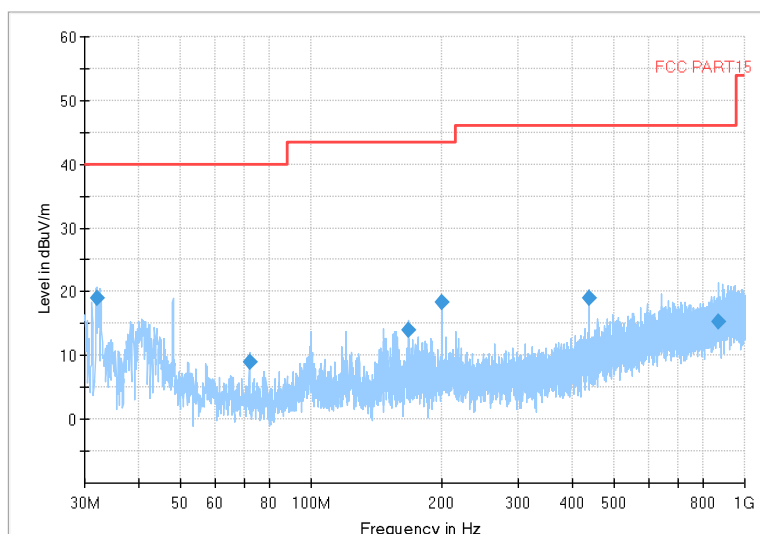
Preview Result2-AVG Preview Result1-PK+
 00 WIFI FCC 5G AV54

Comment

Frequency Range: 18GHz -40GHz
Detector: Av mode and PK mode
Test Mode: 802.11ax(HE20)

Carrier frequency (MHz): 6435
Channel No.97

Full Spectrum

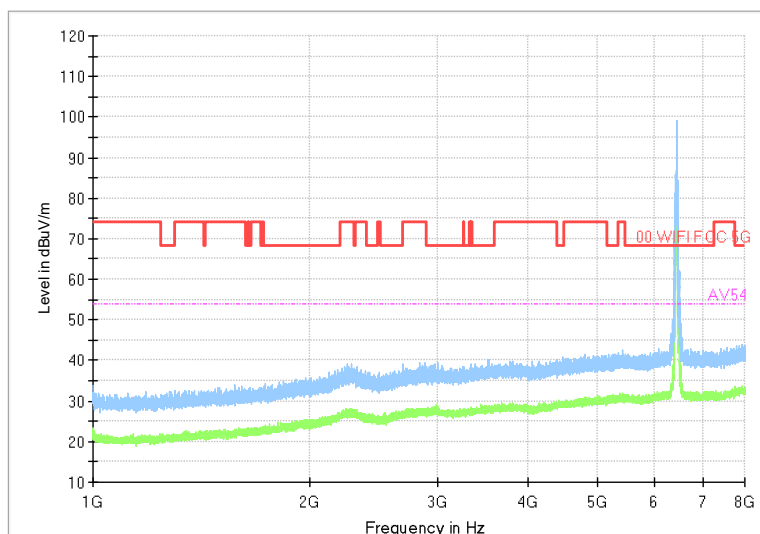


Frequency Range: 30MHz -1GHz

Detector: QP mode

Modulation type: 802.11ax(HE20)

Full Spectrum

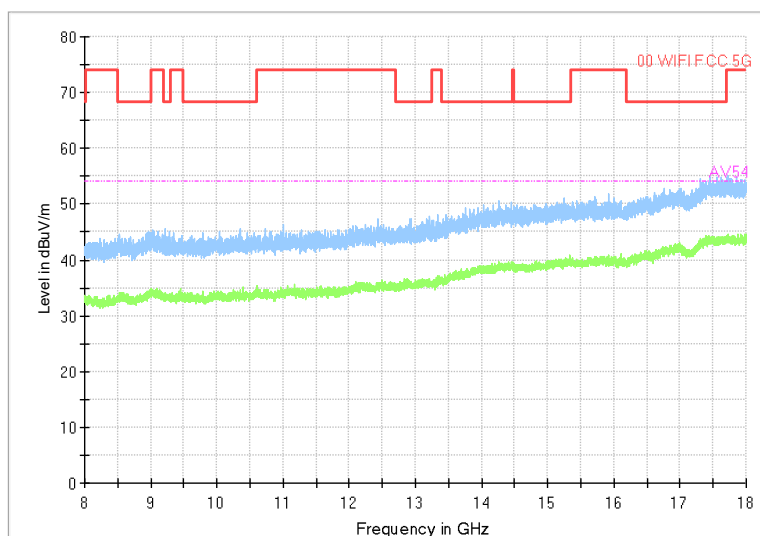


Frequency Range: 1GHz -8GHz

Detector: Av mode and PK mode

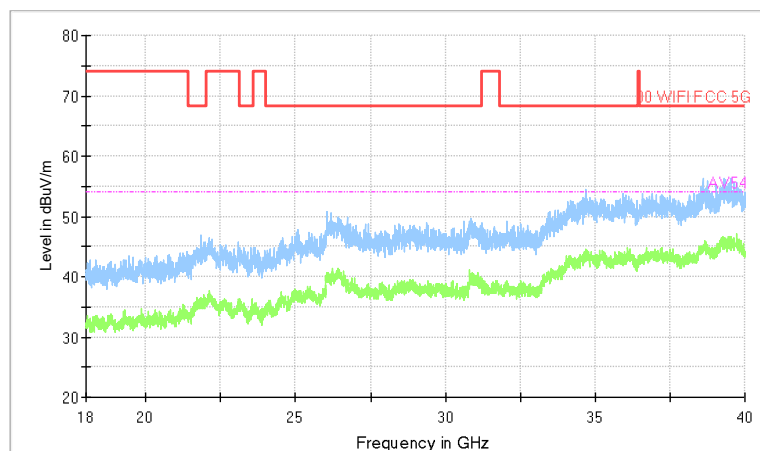
Modulation type: 802.11ax(HE20)

Full Spectrum



Frequency Range: 8GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11ax(HE20)

Full Spectrum



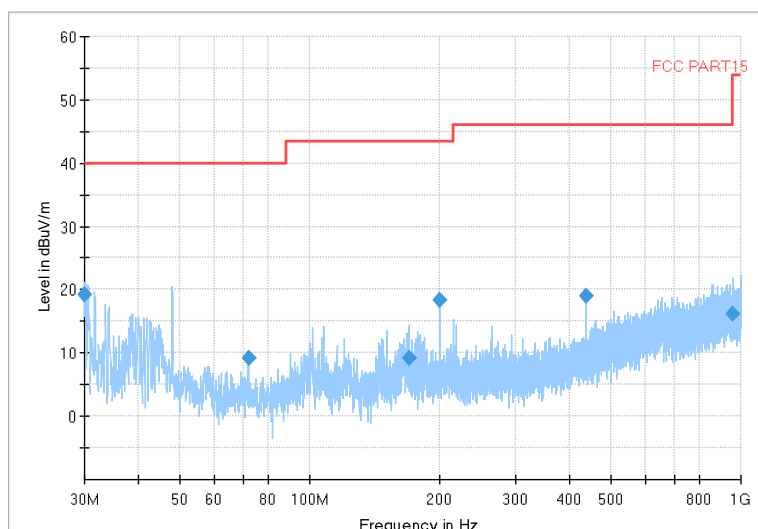
Preview Result2-AVG Preview Result1-PK+
00 WIFI FCC 5G AV54

Comment

Frequency Range: 18GHz -40GHz
Detector: Av mode and PK mode
Modulation type: 802.11ax(HE20)

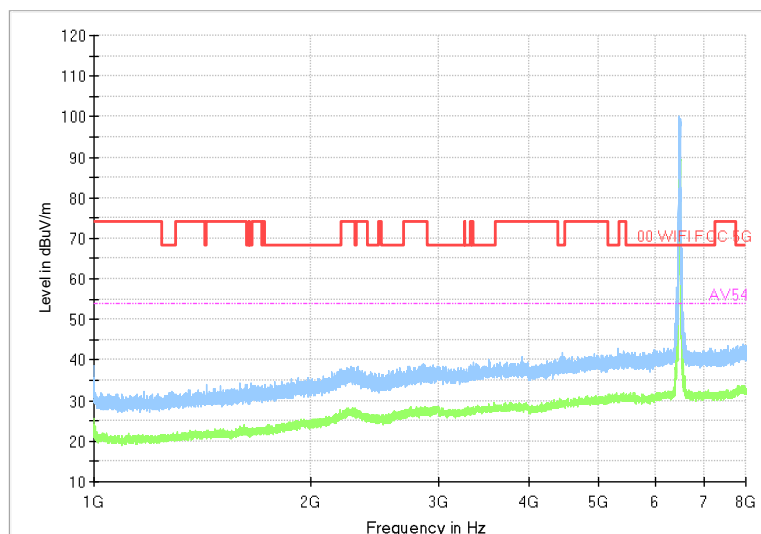
Carrier frequency (MHz): 6475
Channel No.:105

Full Spectrum



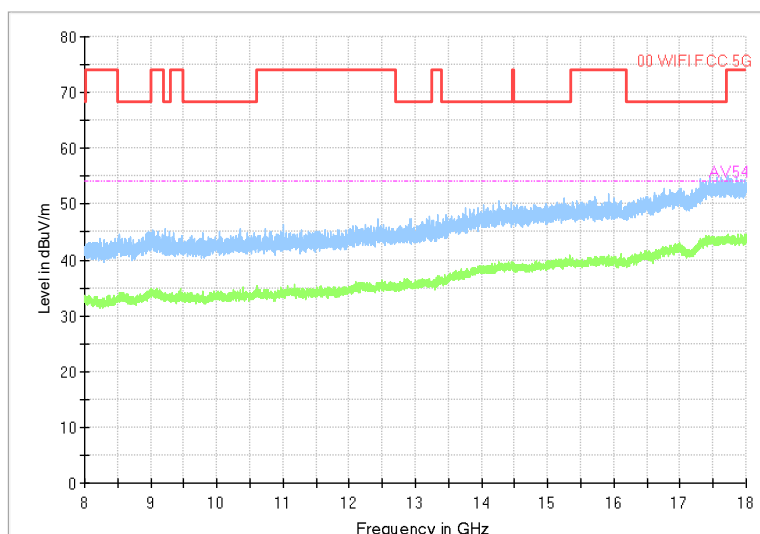
Frequency Range: 30MHz -1GHz
Detector: QP mode
Modulation type: 802.11ax(HE20)

Full Spectrum



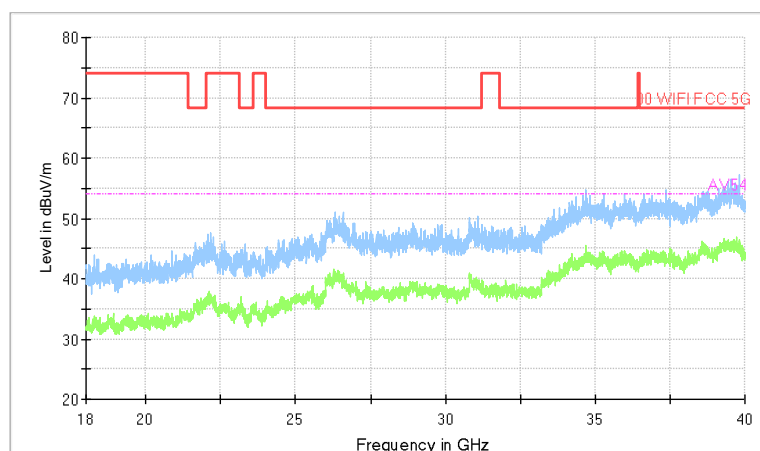
Frequency Range: 1GHz -8GHz
Detector: Av mode and PK mode
Modulation type: 802.11ax(HE20)

Full Spectrum



Frequency Range: 8GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11ax(HE20)

Full Spectrum



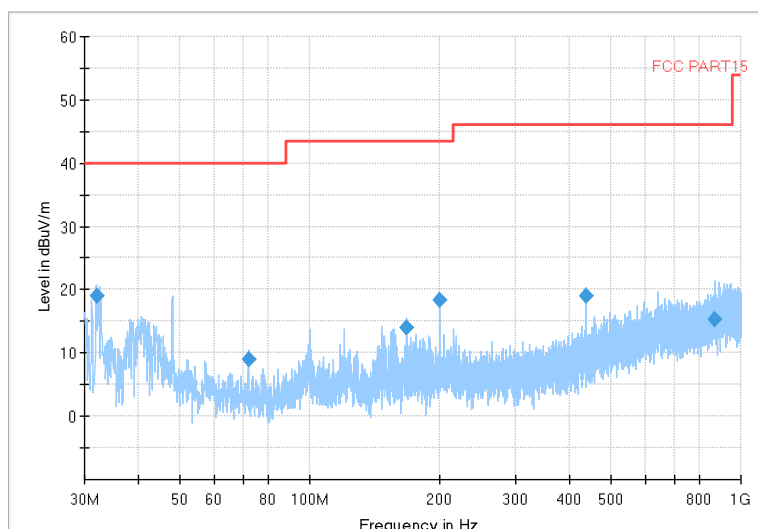
Preview Result2-AVG Preview Result1-PK+
00 WIFI FCC 5G AV54

Comment

Frequency Range: 18GHz -40GHz
Detector: Av mode and PK mode
Modulation type: 802.11ax(HE20)

Carrier frequency (MHz): 6515
Channel No.:113

Full Spectrum

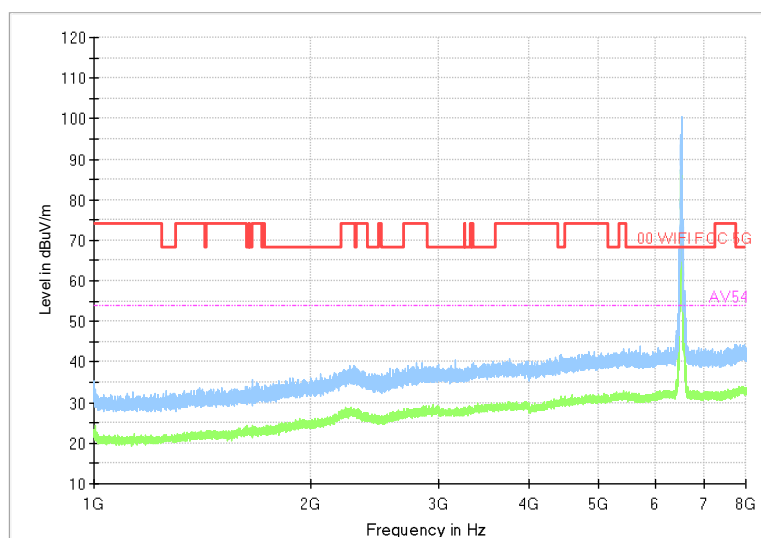


Frequency Range: 30MHz -1GHz

Detector: QP mode

Test Mode: 802.11ax(HE20)

Full Spectrum

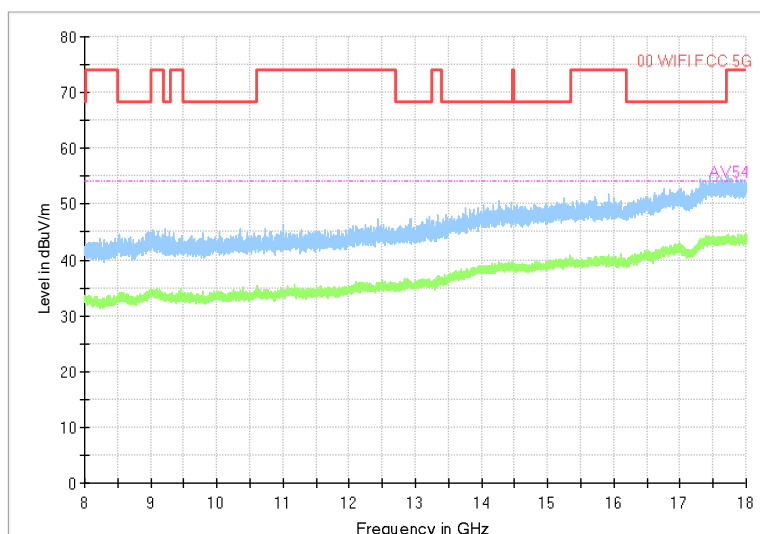


Frequency Range: 1GHz -8GHz

Detector: Av mode and PK mode

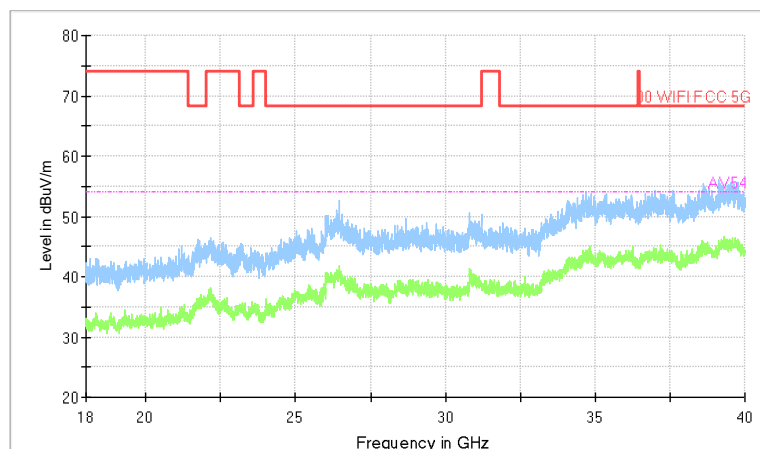
Test Mode: 802.11ax(HE20)

Full Spectrum



Frequency Range: 8GHz -18GHz
Detector: Av mode and PK mode
Test Mode: 802.11ax(HE20)

Full Spectrum



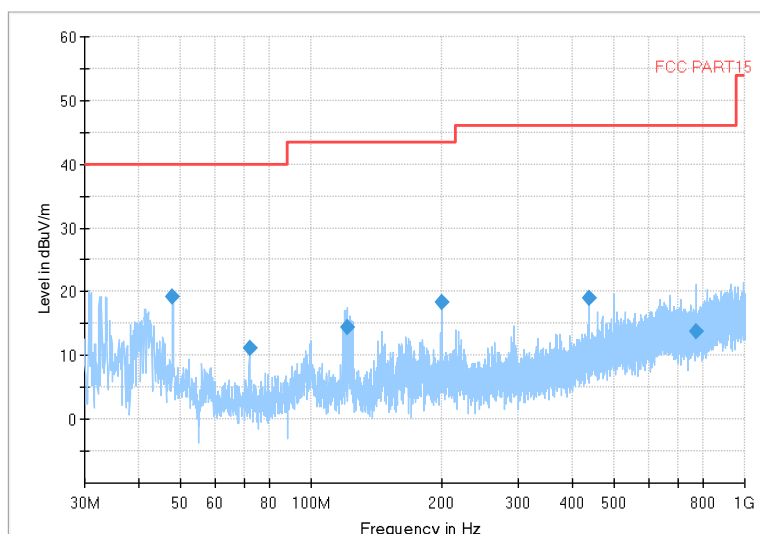
Preview Result2-AVG Preview Result1-PK+
 00 WIFI FCC 5G AV54

Comment

Frequency Range: 18GHz -40GHz
Detector: Av mode and PK mode
Test Mode: 802.11ax(HE20)

Carrier frequency (MHz): 6535
Channel No.:117

Full Spectrum

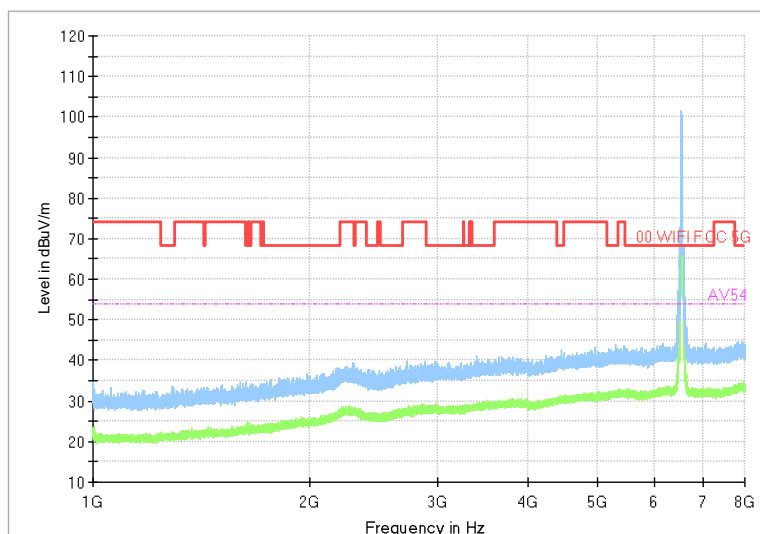


Frequency Range: 30MHz -1GHz

Detector: QP mode

Modulation type: 802.11ax(HE20)

Full Spectrum

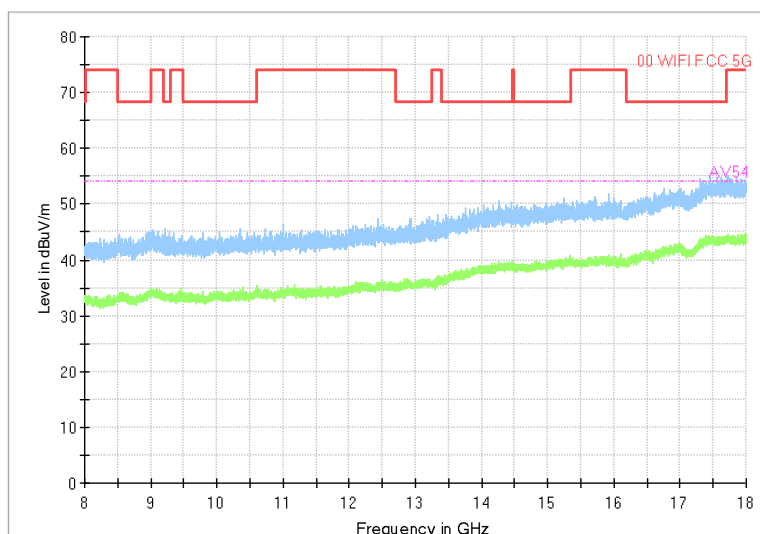


Frequency Range: 1GHz -8GHz

Detector: Av mode and PK mode

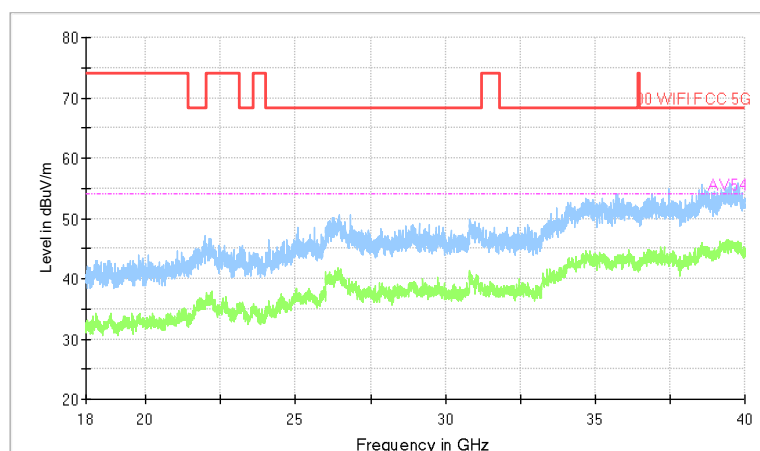
Modulation type: 802.11ax(HE20)

Full Spectrum



Frequency Range: 8GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11ax(HE20)

Full Spectrum



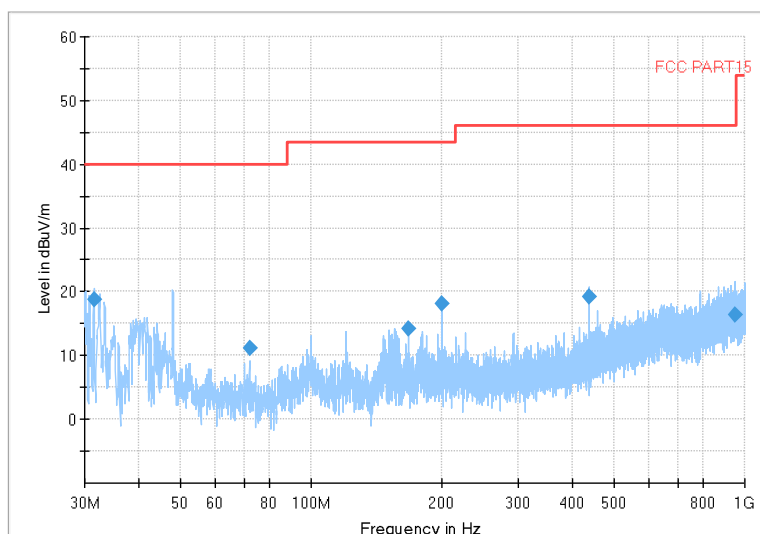
Preview Result2-AVG Preview Result1-PK+
00 WIFI FCC 5G AV54

Comment

Frequency Range: 18GHz -40GHz
Detector: Av mode and PK mode
Modulation type: 802.11ax(HE20)

Carrier frequency (MHz): 6695
Channel No.:149

Full Spectrum

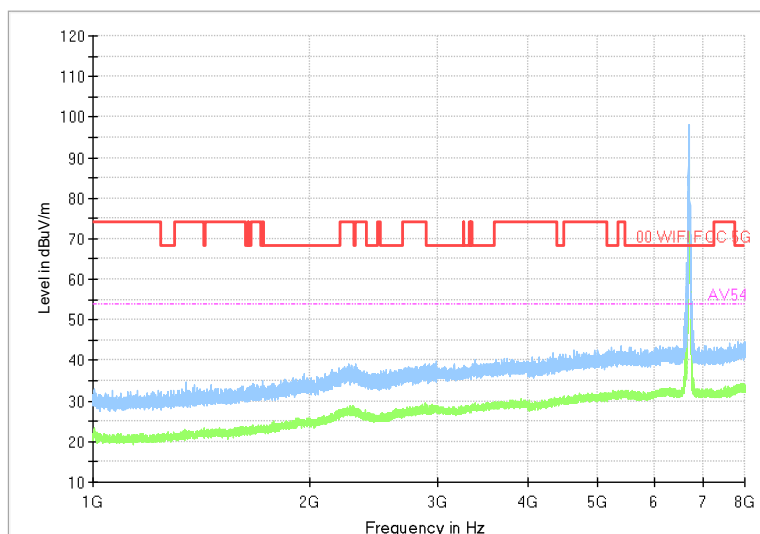


Frequency Range: 30MHz -1GHz

Detector: QP mode

Modulation type: 802.11ax(HE20)

Full Spectrum

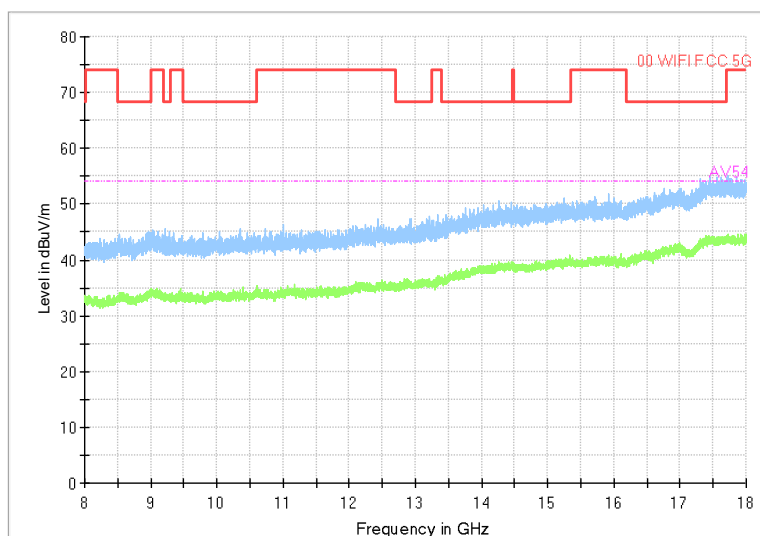


Frequency Range: 1GHz -8GHz

Detector: Av mode and PK mode

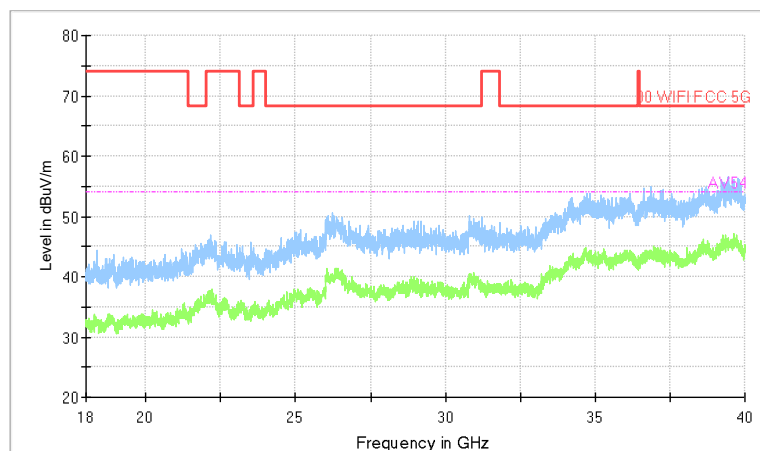
Modulation type: 802.11ax(HE20)

Full Spectrum



Frequency Range: 8GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11ax(HE20)

Full Spectrum



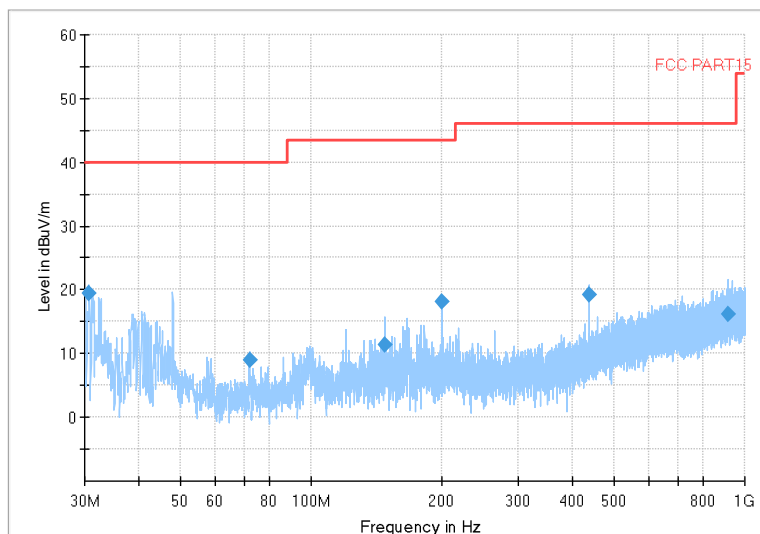
Preview Result2-AVG Preview Result1-PK+
00 WIFI FCC 5G AV54

Comment

Frequency Range: 18GHz -40GHz
Detector: Av mode and PK mode
Modulation type: 802.11ax(HE20)

Carrier frequency (MHz): 6855
Channel No.:181

Full Spectrum

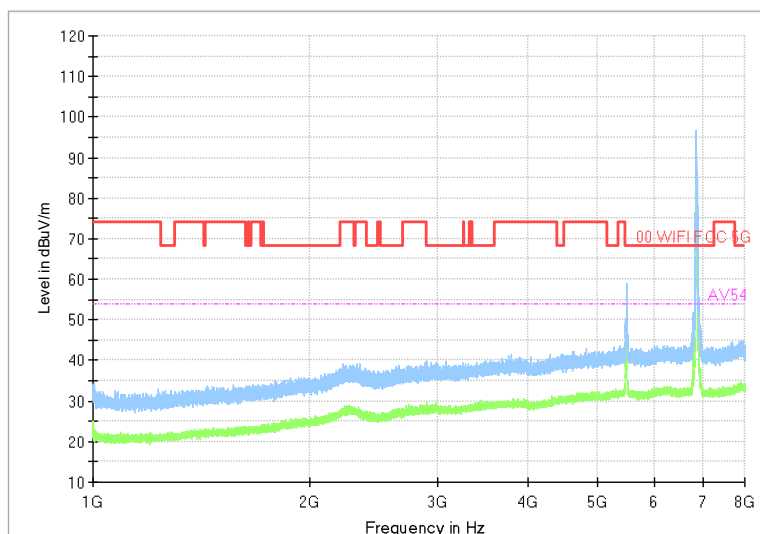


Frequency Range: 30MHz -1GHz

Detector: QP mode

Test Mode: 802.11ax(HE20)

Full Spectrum

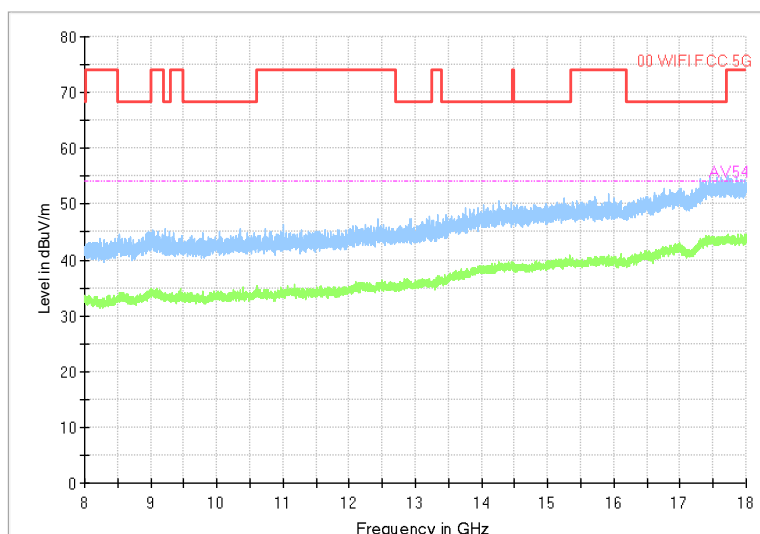


Frequency Range: 1GHz -8GHz

Detector: Av mode and PK mode

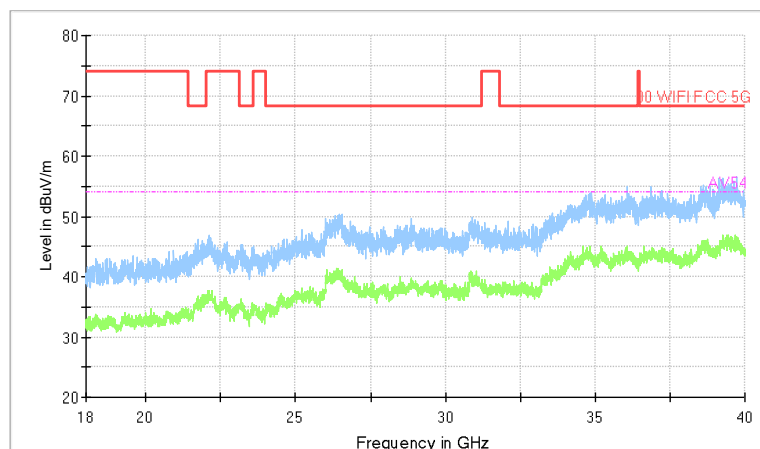
Test Mode: 802.11ax(HE20)

Full Spectrum



Frequency Range: 8GHz -18GHz
Detector: Av mode and PK mode
Test Mode: 802.11ax(HE20)

Full Spectrum



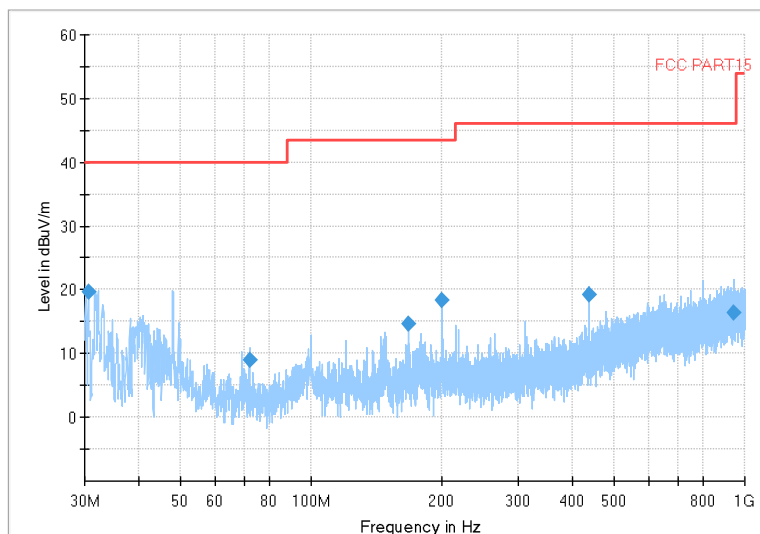
Preview Result2-AVG Preview Result1-PK+
 00 WIFI FCC 5G AV54

Comment

Frequency Range: 18GHz -40GHz
Detector: Av mode and PK mode
Test Mode: 802.11ax(HE20)

Carrier frequency (MHz): 6895
Channel No.:189

Full Spectrum

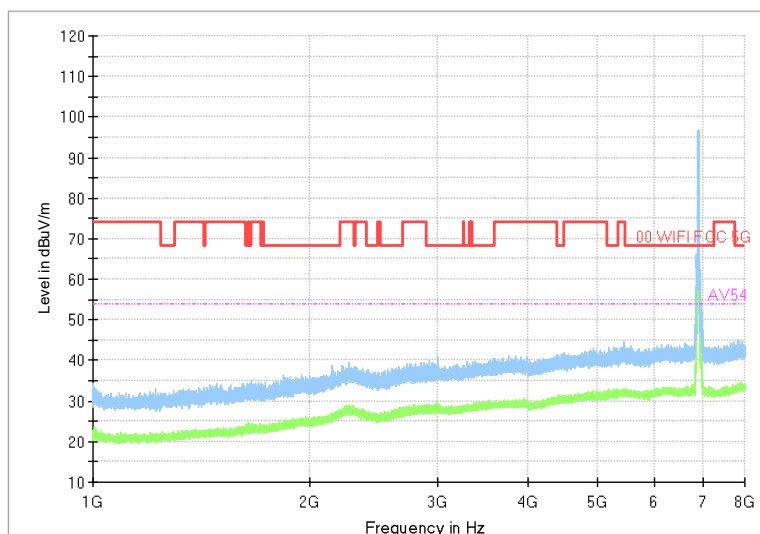


Frequency Range: 30MHz -1GHz

Detector: QP mode

Modulation type: 802.11ax(HE20)

Full Spectrum

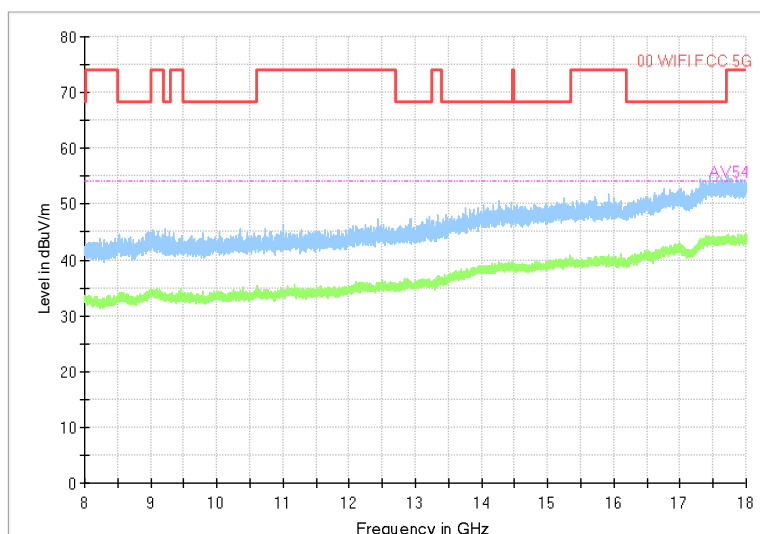


Frequency Range: 1GHz -8GHz

Detector: Av mode and PK mode

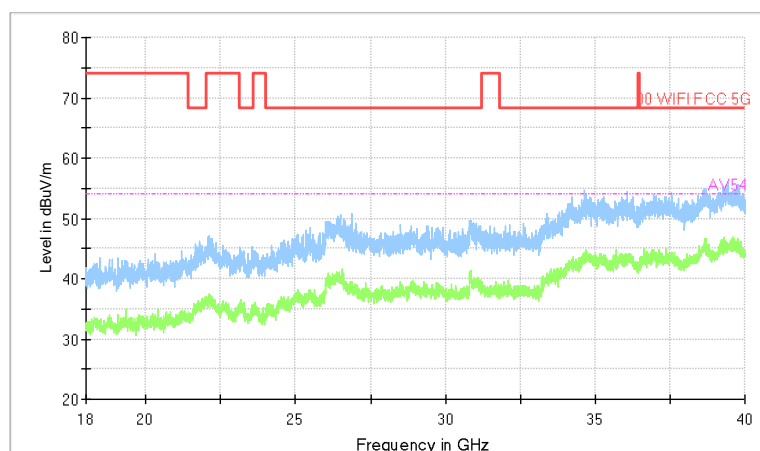
Modulation type: 802.11ax(HE20)

Full Spectrum



Frequency Range: 8GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11ax(HE20)

Full Spectrum



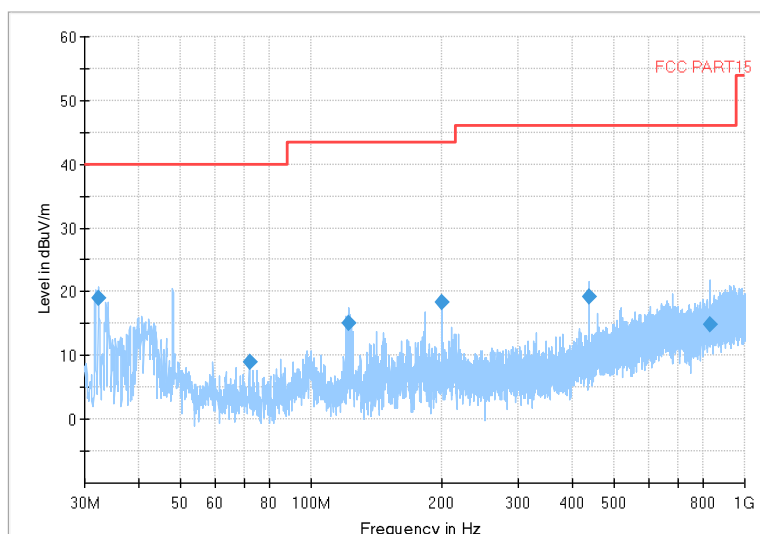
Preview Result2-AVG Preview Result1-PK+
00 WIFI FCC 5G AV54

Comment

Frequency Range: 18GHz -40GHz
Detector: Av mode and PK mode
Modulation type: 802.11ax(HE20)

Carrier frequency (MHz): 6995
Channel No.:209

Full Spectrum

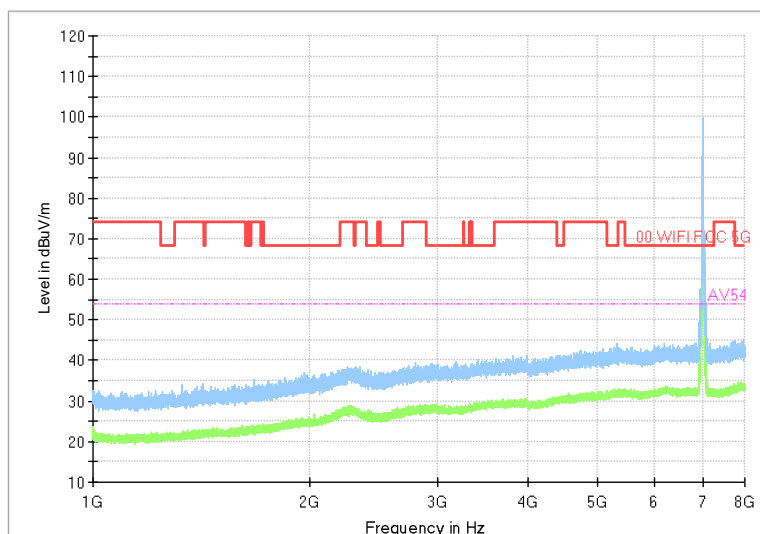


Frequency Range: 30MHz -1GHz

Detector: QP mode

Test Mode: 802.11ax(HE20)

Full Spectrum

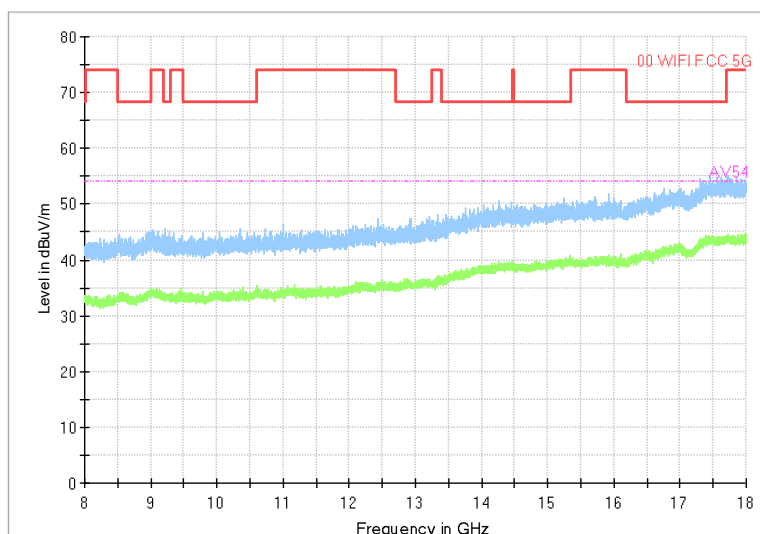


Frequency Range: 1GHz -8GHz

Detector: Av mode and PK mode

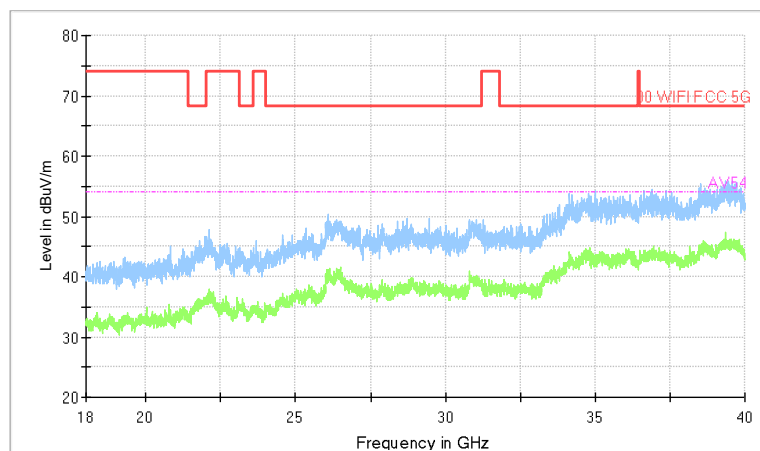
Test Mode: 802.11ax(HE20)

Full Spectrum



Frequency Range: 8GHz -18GHz
Detector: Av mode and PK mode
Test Mode: 802.11ax(HE20)

Full Spectrum



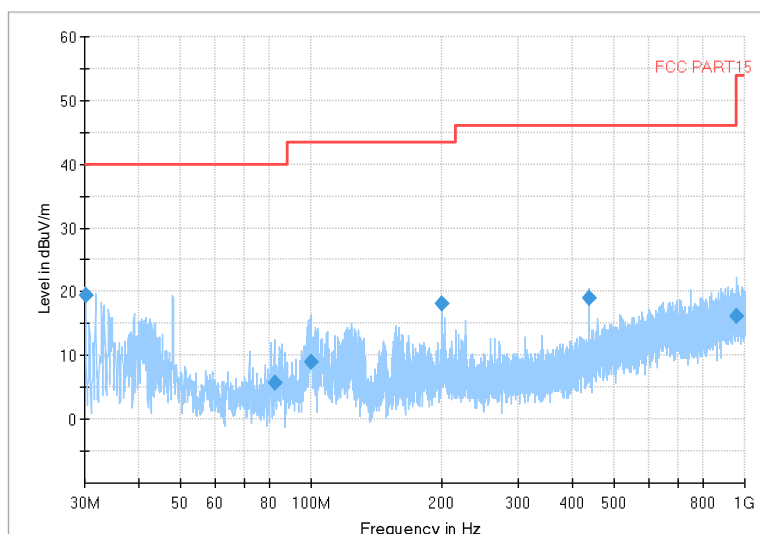
Preview Result2-AVG Preview Result1-PK+
 00 WIFI FCC 5G AV54

Comment

Frequency Range: 18GHz -40GHz
Detector: Av mode and PK mode
Test Mode: 802.11ax(HE20)

Carrier frequency (MHz): 7115
Channel No.:233

Full Spectrum

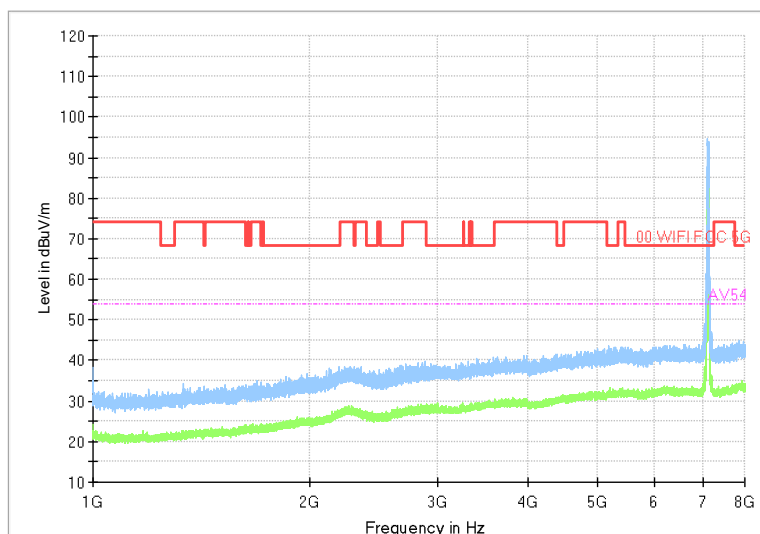


Frequency Range: 30MHz -1GHz

Detector: QP mode

Modulation type: 802.11ax(HE20)

Full Spectrum

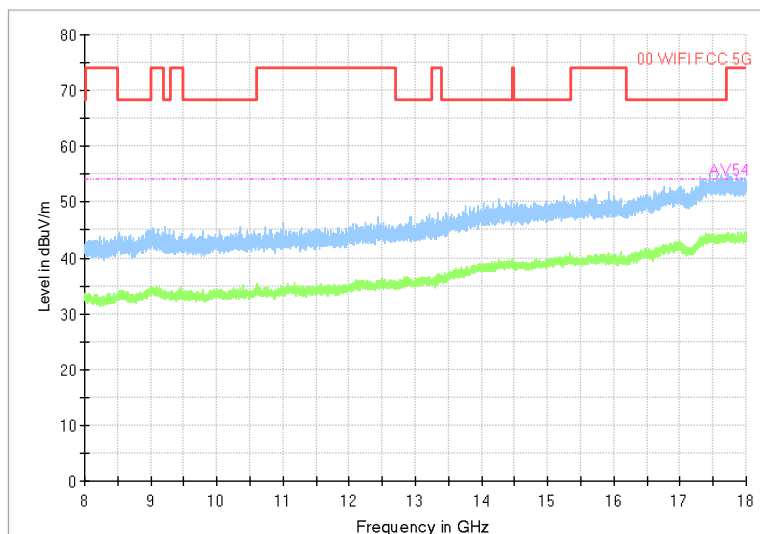


Frequency Range: 1GHz -8GHz

Detector: Av mode and PK mode

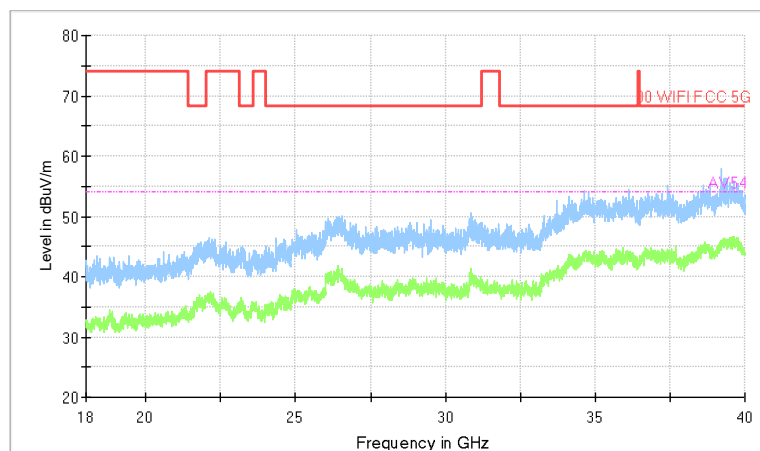
Modulation type: 802.11ax(HE20)

Full Spectrum



Frequency Range: 8GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11ax(HE20)

Full Spectrum



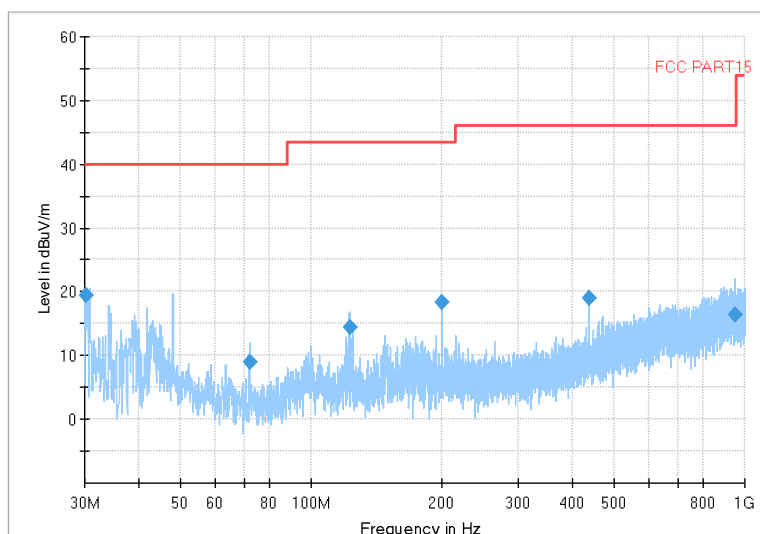
Preview Result2-AVG Preview Result1-PK+
00 WIFI FCC 5G AV54

Comment

Frequency Range: 18GHz -40GHz
Detector: Av mode and PK mode
Modulation type: 802.11ax(HE20)

Carrier frequency (MHz): 5965
Channel No.:3

Full Spectrum

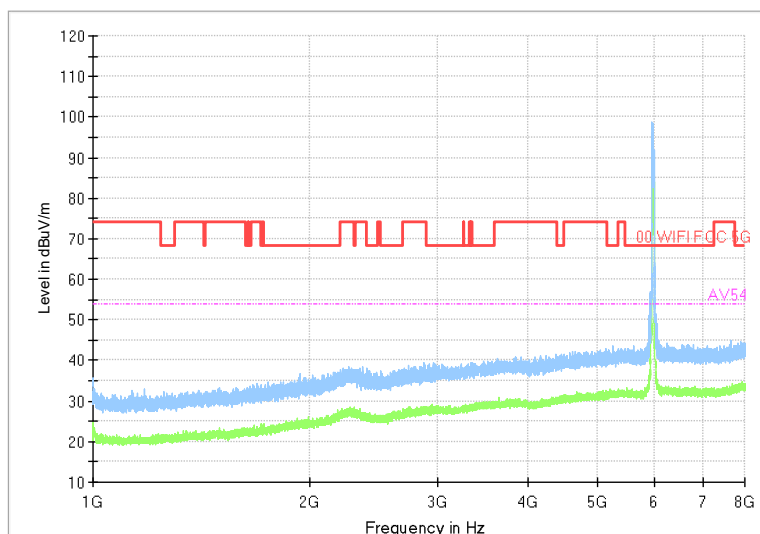


Frequency Range: 30MHz -1GHz

Detector: QP mode

Test Mode: 802.11ax(HE40)

Full Spectrum

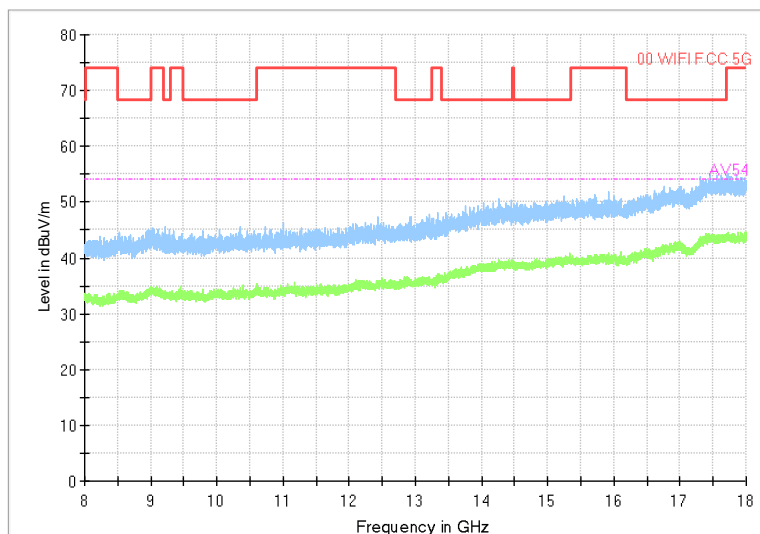


Frequency Range: 1GHz -8GHz

Detector: Av mode and PK mode

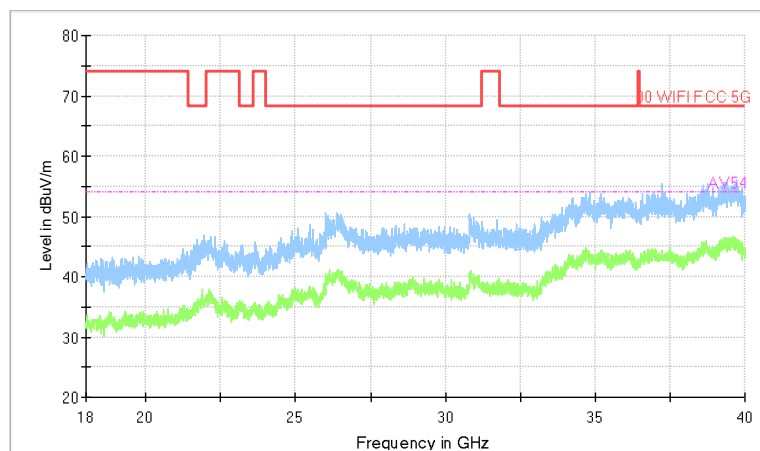
Test Mode: 802.11ax(HE40)

Full Spectrum



Frequency Range: 8GHz -18GHz
Detector: Av mode and PK mode
Test Mode: 802.11ax(HE40)

Full Spectrum



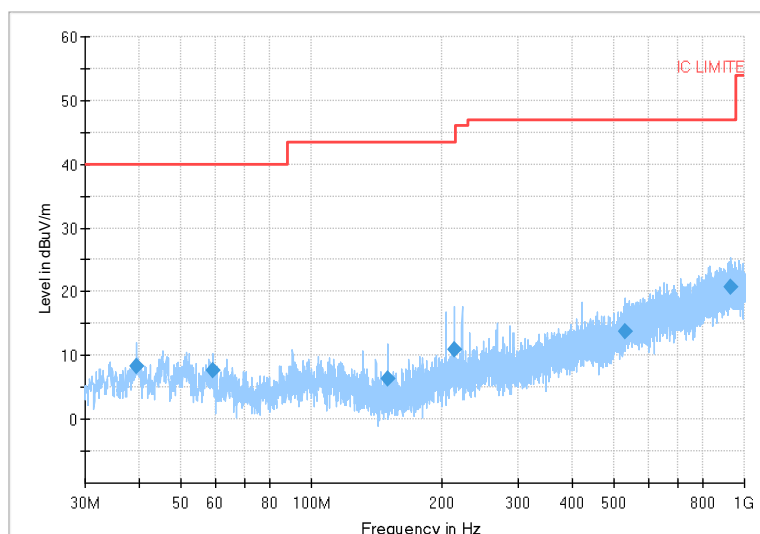
Preview Result2-AVG Preview Result1-PK+
 00 WIFI FCC 5G AV54

Comment

Frequency Range: 18GHz -40GHz
Detector: Av mode and PK mode
Test Mode: 802.11ax(HE40)

Carrier frequency (MHz): 6165
Channel No.:43

Full Spectrum

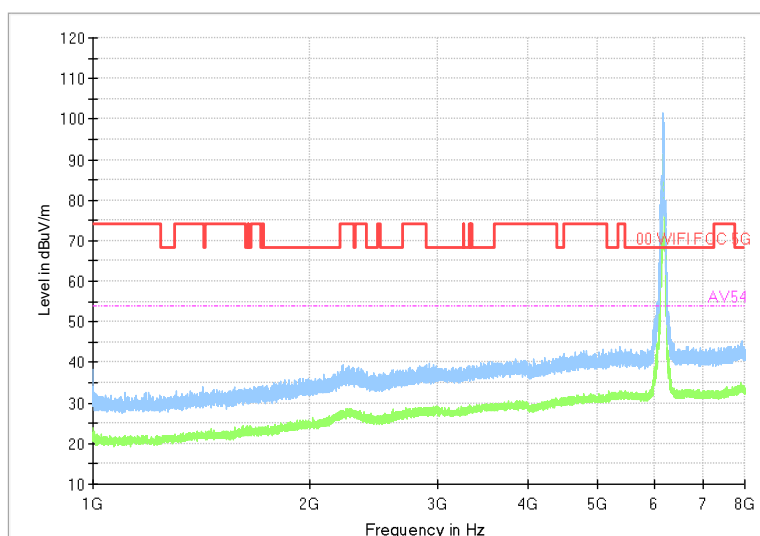


Frequency Range: 30MHz -1GHz

Detector: QP mode

Test Mode: 802.11ax(HE40)

Full Spectrum

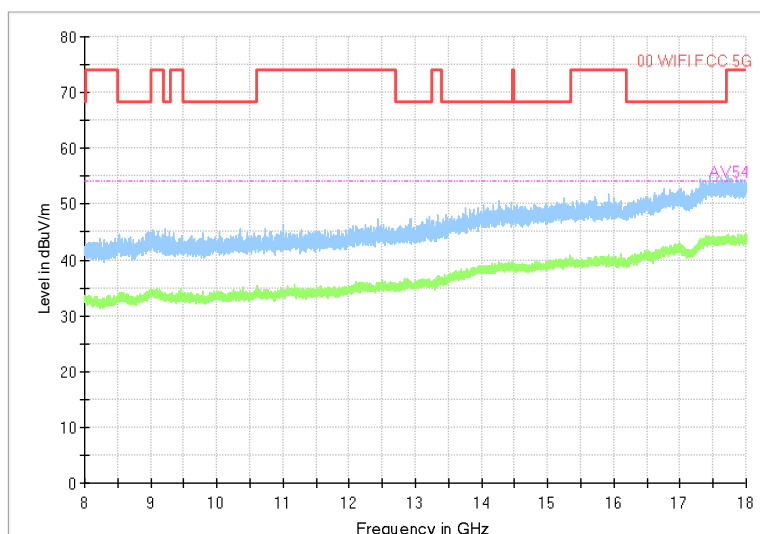


Frequency Range: 1GHz -8GHz

Detector: Av mode and PK mode

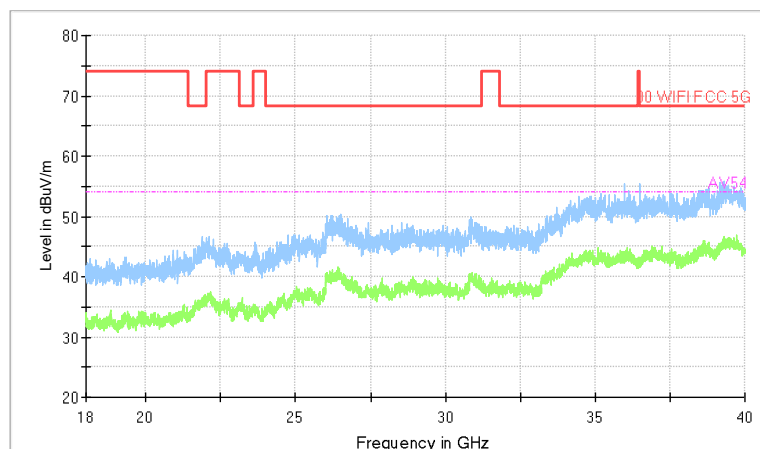
Test Mode: 802.11ax(HE40)

Full Spectrum



Frequency Range: 8GHz -18GHz
Detector: Av mode and PK mode
Test Mode: 802.11ax(HE40)

Full Spectrum



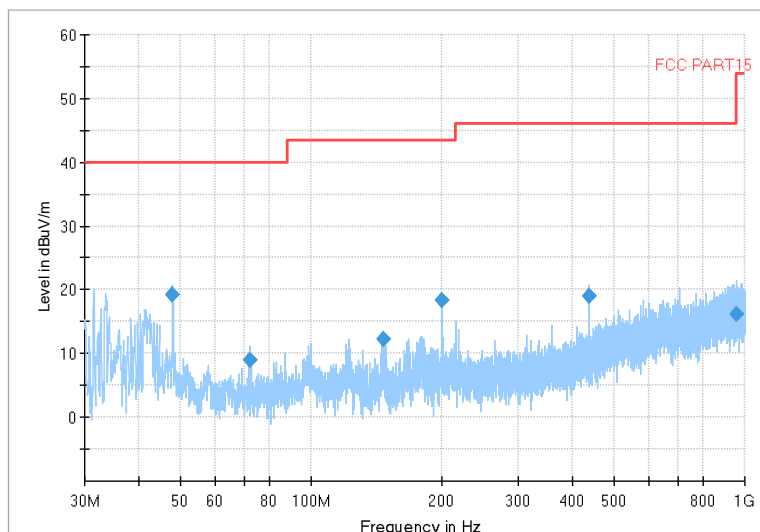
Preview Result2-AVG Preview Result1-PK+
 00 WIFI FCC 5G AV54

Comment

Frequency Range: 18GHz -40GHz
Detector: Av mode and PK mode
Test Mode: 802.11ax(HE40)

Carrier frequency (MHz): 6405
Channel No.:91

Full Spectrum

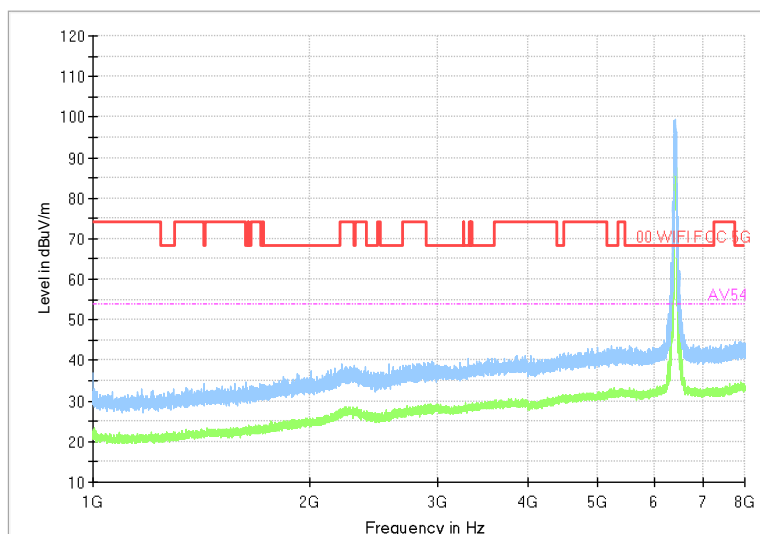


Frequency Range: 30MHz -1GHz

Detector: QP mode

Modulation type: 802.11ax(HE40)

Full Spectrum

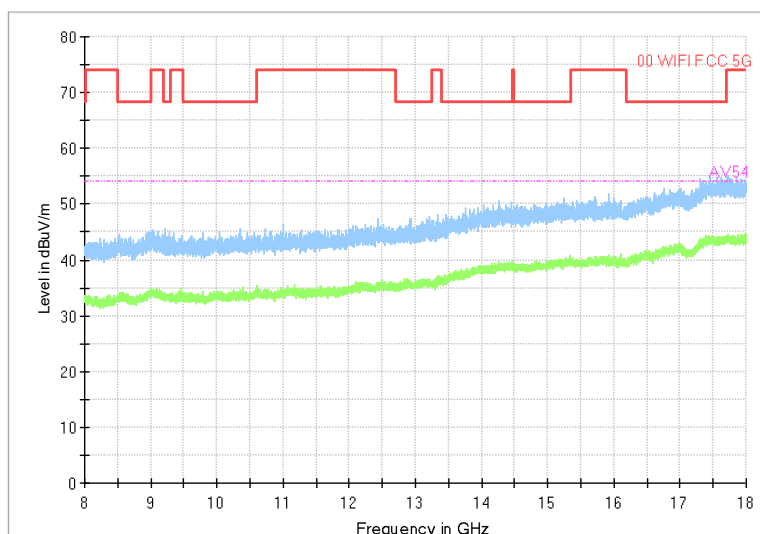


Frequency Range: 1GHz -8GHz

Detector: Av mode and PK mode

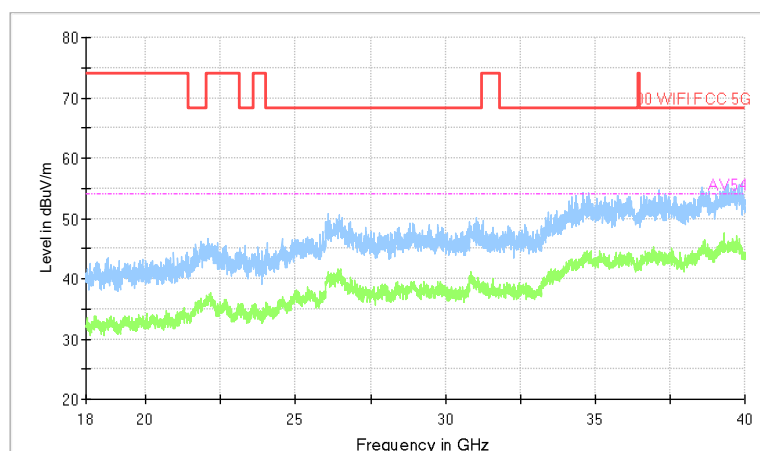
Modulation type: 802.11ax(HE40)

Full Spectrum



Frequency Range: 8GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11ax(HE40)

Full Spectrum



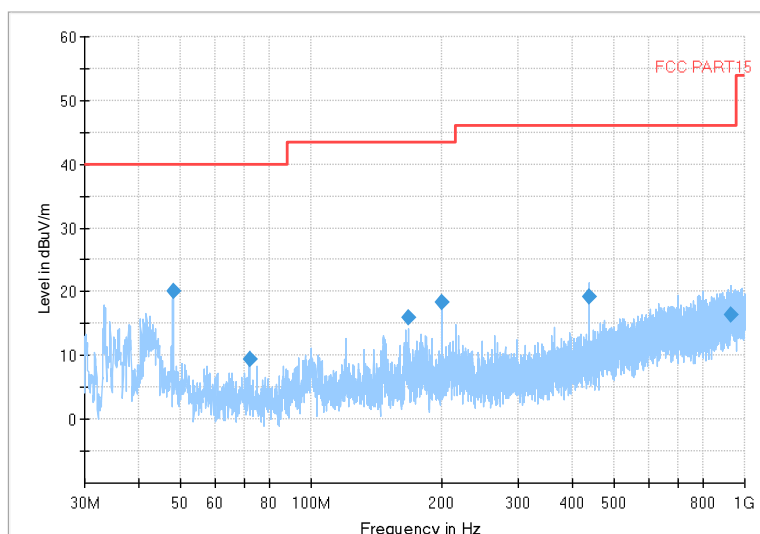
Preview Result2-AVG Preview Result1-PK+
00 WIFI FCC 5G AV54

Comment

Frequency Range: 18GHz -40GHz
Detector: Av mode and PK mode
Modulation type: 802.11ax(HE40)

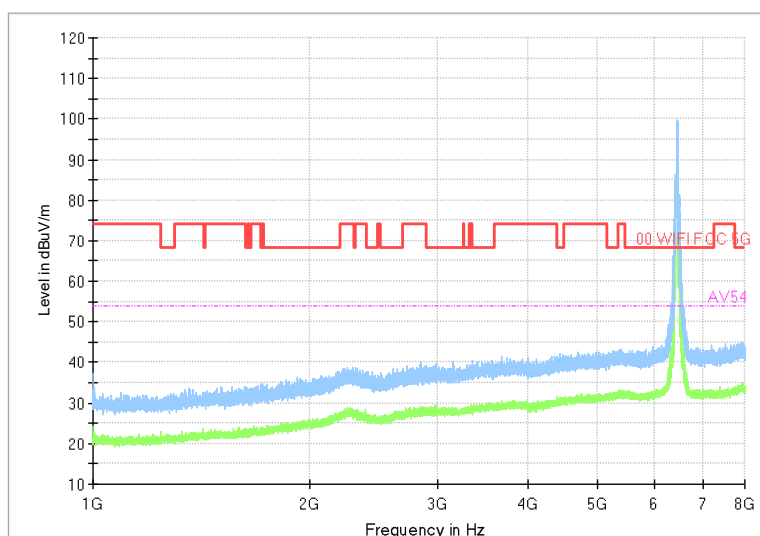
Carrier frequency (MHz): 6445
Channel No.:99

Full Spectrum



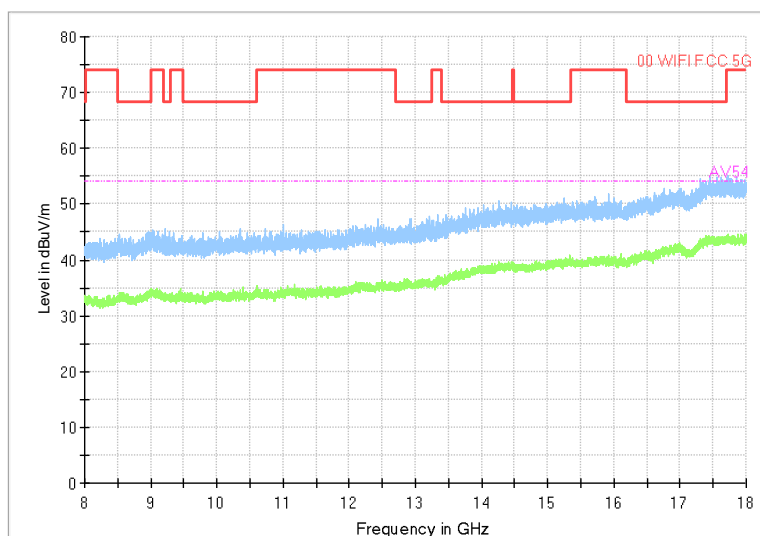
Frequency Range: 30MHz -1GHz
Detector: QP mode
Modulation type: 802.11ax(HE40)

Full Spectrum



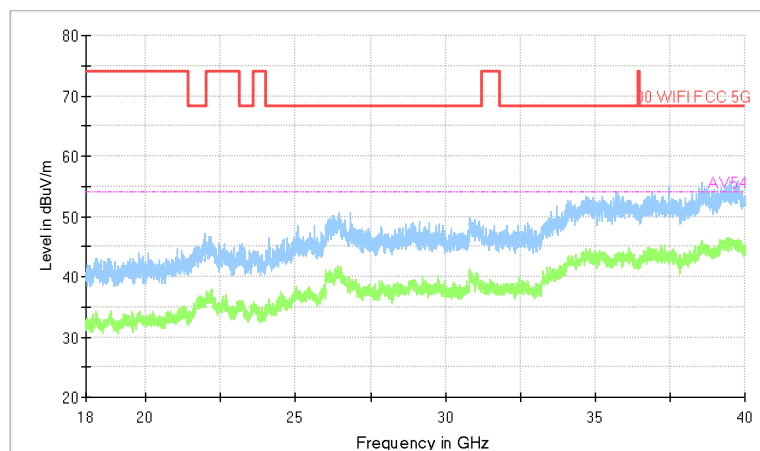
Frequency Range: 1GHz -8GHz
Detector: Av mode and PK mode
Modulation type: 802.11ax(HE40)

Full Spectrum



Frequency Range: 8GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11ax(HE40)

Full Spectrum



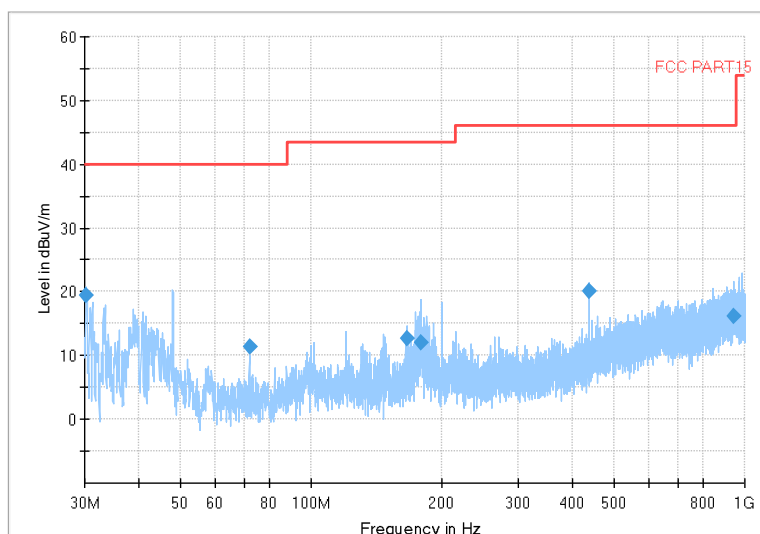
Preview Result2-AVG Preview Result1-PK+
00 WIFI FCC 5G AV54

Comment

Frequency Range: 18GHz -40GHz
Detector: Av mode and PK mode
Modulation type: 802.11ax(HE40)

Carrier frequency (MHz): 6485
Channel No.:107

Full Spectrum

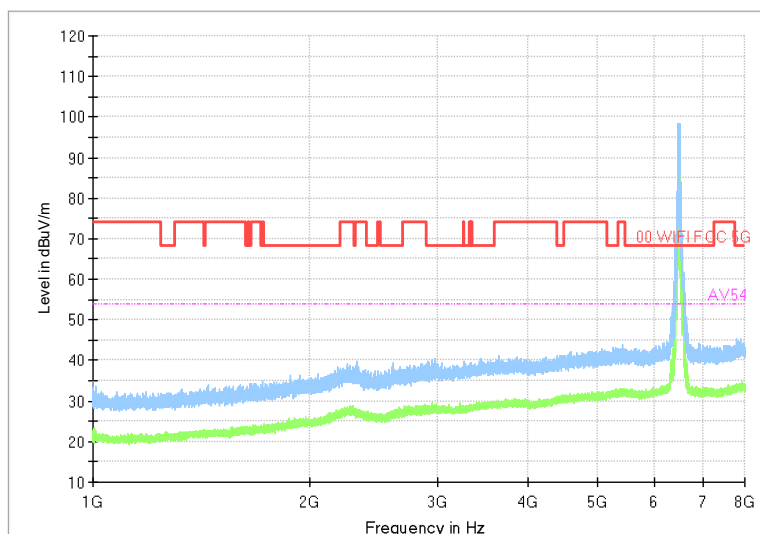


Frequency Range: 30MHz -1GHz

Detector: QP mode

Test Mode: 802.11ax(HE40)

Full Spectrum

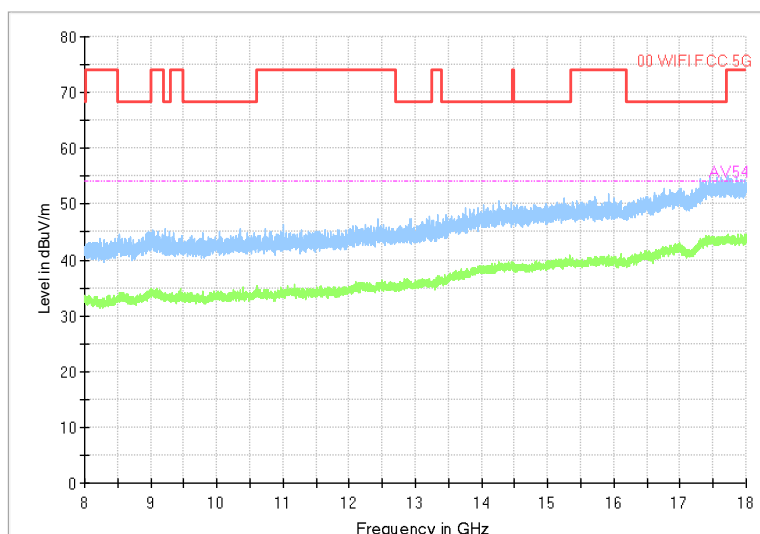


Frequency Range: 1GHz -8GHz

Detector: Av mode and PK mode

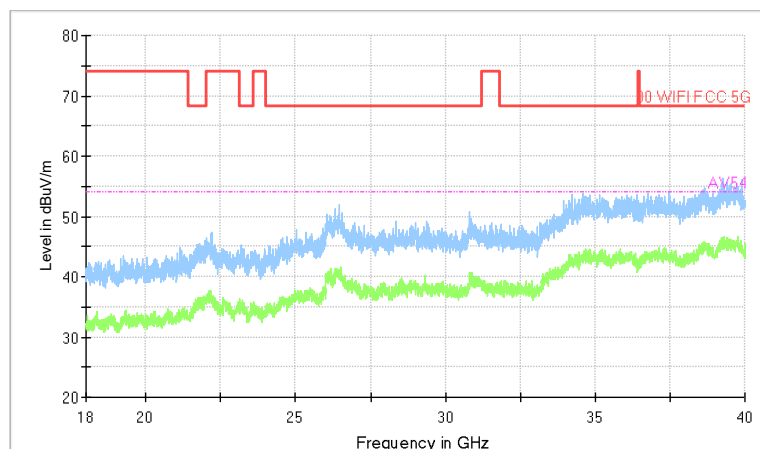
Test Mode: 802.11ax(HE40)

Full Spectrum



Frequency Range: 8GHz -18GHz
Detector: Av mode and PK mode
Test Mode: 802.11ax(HE40)

Full Spectrum



Preview Result2-AVG Preview Result1-PK+
 00 WIFI FCC 5G AV54

Comment

Frequency Range: 18GHz -40GHz
Detector: Av mode and PK mode
Test Mode: 802.11ax(HE40)

Carrier frequency (MHz): 6565
Channel No.:123