



Prüfbericht-Nr.: Test report no.:	CN22CFQK(P15C-WiFi) 001	Auftrags-Nr.: Order no.:	238541518	Seite 1 von 27 Page 1 of 27
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2022-03-29	
Auftraggeber: Client:	Microchip Technology Inc. 2355 West Chandler Blvd. Chandler, Arizona 85224-6199, United States			
Prüfgegenstand: Test item:	IEEE 802.11 b/g/n Network Controller Module with Integrated Bluetooth Low Energy			
Bezeichnung / Typ-Nr.: Identification / Type no.:	ATWINC3400-MR210UA			
Auftrags-Inhalt: Order content:	FCC Part 15C Test report (WiFi 2.4GHz)			
Prüfgrundlage: Test specification:	FCC 47CFR Part 15: Subpart C Section 15.247			
Wareneingangsdatum: Date of sample receipt:	2022-05-20			
Prüfmuster-Nr.: Test sample no:	A003264661-002 A003234841-006			
Prüfzeitraum: Testing period:	2022-05-27 - 2022-07-27			
Ort der Prüfung: Place of testing:	EMC/RF Taipei Testing Site			
Prüflaboratorium: Testing laboratory:	Taipei Testing Laboratories			
Prüfergebnis*: Test result*:	Pass			
zusammengestellt von: compiled by:			genehmigt von: authorized by:	
Datum: Date:	2022-07-27	Ausstellungsdatum: Issue date:	2022-07-27	
Stellung / Position:	Senior Project Manager	Stellung / Position:	Senior Project Manager	
Sonstiges / Other:	This is an updated report for 2 nd source crystal change and 2 nd inductors change. Hence, we only evaluate and test the output power and radiated spurious emissions. The other test results are all referred to the original report no. 50142287 001.			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	4 = ausreichend N/A = nicht anwendbar
* Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory F(ail) = failed a.m. test specification(s)	4 = sufficient N/A = not applicable
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.				

V05

TEST SUMMARY

Report Section	FCC Clause	Test Item	Result
5.1.1	15.247(b) & 15.203	Antenna Requirement	Pass
5.1.2	15.247(b)(3)	Peak Output Power	Pass
-	15.247(a)(2)	6 dB Bandwidth	Refer to report no. 50142287 001
-	2.1049	99% Occupied Bandwidth	
-	15.247(e)	Power Spectral Density	
-	15.247(d)	Conducted Spurious Emissions and Band Edges	
5.1.3	15.247(d) & 15.205 & 15.209	Radiated Spurious Emissions and Band Edges	Pass
5.2.1	15.207	Mains Conducted Emission	Pass

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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**Appendix A - Test Result of Radiated Emissions & Mains Conducted Emission
for Ant No. 4**

**Appendix B - Test Result of Radiated Emissions & Mains Conducted Emission
for Ant No. 7**

Appendix SP - Photographs of Test Setup

Appendix EP - Photographs of EUT

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HISTORY OF THIS TEST REPORT

Report No.	Description	Date Issued
CN22CFQK(P15C-WiFi) 001	Original Release	2022-07-27

1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A - Test Result of Radiated Emissions & Mains Conducted Emission for Ant No. 4

Appendix B - Test Result of Radiated Emissions & Mains Conducted Emission for Ant No. 7

Appendix SP - Photographs of Test Setup

Appendix EP - Photographs of EUT

Applied Standard and Test Levels

Radio
FCC 47CFR Part 15: Subpart C Section 15.247
FCC 47CFR Part 2: Subpart J Section 2.1049
ANSI C63.10:2013
KDB 558074 D01 15.247 Meas Guidance v05r02

1.2 Decision Rule of Conformity

The decision rule of conformity of this test report is following the requirements of the requested standard in the quotation, and agreed among testing laboratory and manufacturer (applicant) to exclude the consideration of Measurement Uncertainty, unless it is required by the specific standard.

2. Test Sites

2.1 Test Laboratory

Taipei Testing Laboratories

11F. No.758, Sec. 4, Bade Rd., Songshan Dist.
Taipei City 105
Taiwan (R.O.C.)

2.2 Test Facility

Taipei Testing Laboratories

No.458-18, Sec. 2, Fenliao Rd., Linkou Dist.,
New Taipei City 244
Taiwan (R.O.C.)
FCC Registration No.: 226631
ISED Registration No.: 25563

2.3 Traceability

All measurement equipment calibrations are traceable to NML(Taiwan)/NIST(USA) or where calibration is performed outside Taiwan, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically in a suitably accredited Calibration Lab. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

All measurement uncertainty values are shown with a coverage factor of $k=2$ to indicate a 95% level of confidence.

Emission Measurement Uncertainty

Parameter	Uncertainty
Radiated Emission (9 kHz ~ 30 MHz)	± 1.15 dB
Radiated Emission (30 MHz ~ 200 MHz)	± 1.30 dB
Radiated Emission (200 MHz ~ 1 GHz)	± 1.30 dB
Radiated Emission (1 GHz ~ 18 GHz)	± 1.54 dB
Radiated Emission (18 GHz ~ 40 GHz)	± 2.52 dB
Mains Conducted Emission	± 1.65 dB

3. General Product Information

3.1 Product Function and Intended Use

The EUT is an IEEE 802.11 b/g/n Network Controller Module with Integrated Bluetooth Low Energy. It contains a WLAN compatible module enabling the user to communicate data through a Wireless interface.

For details refer to the User Guide, Data Sheet and Circuit Diagram.

3.2 System Details and Ratings

Basic Information of EUT

Item	EUT information
Kind of Equipment/Test Item	IEEE 802.11 b/g/n Network Controller Module with Integrated Bluetooth Low Energy
Type Identification	ATWINC3400-MR210UA
FCC ID	2ADHKWINC3400U

Technical Specification of EUT

Item	EUT information
Operating Frequency	2412 MHz ~ 2462 MHz
Channel Spacing	5 MHz
Channel Number	802.11b/g/n HT20: 11 802.11n HT40: 7
Data Rate	802.11b: 11.0 / 5.5 / 2.0 / 1.0 Mbps 802.11g: 54.0 / 48.0 / 36.0 / 24.0 / 18.0 / 12.0 / 9.0 / 6.0 Mbps 802.11n: up to MCS7
Operation Voltage	3.0 Vdc to 4.2Vdc (Typical = 3.3Vdc)
Modulation	DSSS (DBPSK, DQPSK, CCK) OFDM (BPSK, QPSK, 16QAM, 64QAM)
Maximum Output Power (mW)	802.11b: 46.13 802.11g: 129.72 802.11n HT20: 179.06
Antenna Information	Refer to Note 1
Accessory Device	Refer to 4.4

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Note:

1: External Antenna List:

Base on the worst case, Antenna no. 4 and 7 are selected for testing.

Antenna No.	P/N	Vendor	Antenna Gain @ 2.4GHz Band	Antenna type	Remarks
1	W3525B039	Pulse Electronics Corporation	2 dBi	PCB	Cable length 100mm
2	RN-SMA-4	Microchip	2.2 dBi	Dipole	--
3	RFDPA870920IMLB 301	WALSIN	1.84 dBi	Dipole-DB	Dual Band
4	RFMTA331215IMAB 701	WALSIN	3.8 dBi	Metal Stamp	Cable length 150mm
5	RFMTA331240IMAB 701	WALSIN	3.0 dBi	Metal Stamp	Antenna same as S1No.4, cable length 400 mm
6	RFA-02-3-C5H1	Aristotle	3 dBi	Dipole	--
7	RFA-02-5-C7H1	Aristotle	5 dBi	Dipole-Long	--
8	RFA-02-P33	Aristotle	2 dBi	PCB	Cable length 150mm
9	1461530100	Molex	3 dBi	PCB/Flexi	Cable length 100mm Dual Band
10	RN-SMA-S	Microchip	0.56 dBi	Dipole-short	--
11	RN-SMA-7	Microchip	5 dBi	Dipole-Long	--
12	RFA-02-5-F7H1	Aristotle	5 dBi	Dipole-Long	--
13	RFA-02-D3	Aristotle	2 dBi	Dipole-no encl.	--
14	RFA-02-L2H1	Aristotle	2 dBi	Dipole	--
15	RFA-02-P05	Aristotle	2 dBi	PCB	Cable length 150mm
16	RFA-02-C2M2	Aristotle	2 dBi	Dipole	--

3.3 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.4 Submitted Documents

- Circuit Diagram
- Instruction Manual
- Rating Label
- Technical Description

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The test modes were adapted accordingly in reference to the instructions for use.

During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output expected by the customer and is going to be fixed on the firmware of the final end product.

Table for Parameters of Test Software Setting

802.11b		802.11g		802.11n HT20	
Channel	Power Setting	Channel	Power Setting	Channel	Power Setting
1	15.18.-12.5	1	15/18/-9	1	15/18/-11.5
6	15.18.-12.5	6	15/18/-9.5	6	15/18/-8.5
11	15.18.-12.5	11	15/18/-10	11	15/18/-9.5

4.2 Carrier Frequency and Channel

802.11b, 802.11g and 802.11n HT20:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432		
6	2437		
7	2442		

4.3 Test Operation and Test Software

Setup for testing: Test samples are provided with a USB interface which makes it possible to control them through a test software installed on a notebook computer.

This software was running on the laptop computer connected to the EUT. It was used to enable the operation modes listed as below.

Test Software	MCHPRT2.exe
---------------	-------------

The samples were used as follows:

A003264661-002

A003234841-006

Full test was applied on all test modes, but only worst case was shown.

Modulation Mode	Tx Function
802.11b	1TX (SISO)
802.11g	1TX (SISO)
802.11n HT20	1TX (SISO)

EUT Configure Mode	Applicable To				Description
	Antenna Port Conducted Measurement	Radiated Spurious Emissions above 1 GHz	Radiated Spurious Emissions below 1 GHz	Mains Conducted Emission	
-	√	√	√	√	-

Note:

1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when position on Z-plane.
2. "-" means no effect.

Antenna Port Conducted Measurement

- ☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Date Rate (Mbps)
-	802.11b	1 to 11	1, 6, 11	1.0
-	802.11g	1 to 11	1, 6, 11	6.0
-	802.11n HT20	1 to 11	1, 6, 11	MCS0

Radiated Spurious Emissions (Above 1 GHz)

- ☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Date Rate (Mbps)
-	802.11b	1 to 11	1, 6, 11	1.0
-	802.11g	1 to 11	1, 6, 11	6.0
-	802.11n HT20	1 to 11	1, 6, 11	MCS0

Radiated Spurious Emissions (Below 1 GHz)

- ☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Date Rate (Mbps)
-	802.11n HT20	1 to 11	6	MCS0

Mains Conducted Emission

- ☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Date Rate (Mbps)
-	802.11n HT20	1 to 11	6	MCS0

Test Condition

Test Item	Ambient Temperature	Relative Humidity	Tested by
Conducted Measurement	18-23 °C	58-69 %	Nick Hsu
Radiated Spurious Emissions above 1 GHz	22.1-24.5 °C	54-57 %	Ivan Chiang
Radiated Spurious Emissions below 1 GHz	22.1-24.5 °C	54-57 %	Ivan Chiang
Mains Conducted Emission	20.1-20.9 °C	53-57 %	Ray Huang

4.4 Special Accessories and Auxiliary Equipment

The product has been tested together with the following additional accessories:

Accessory of EUT

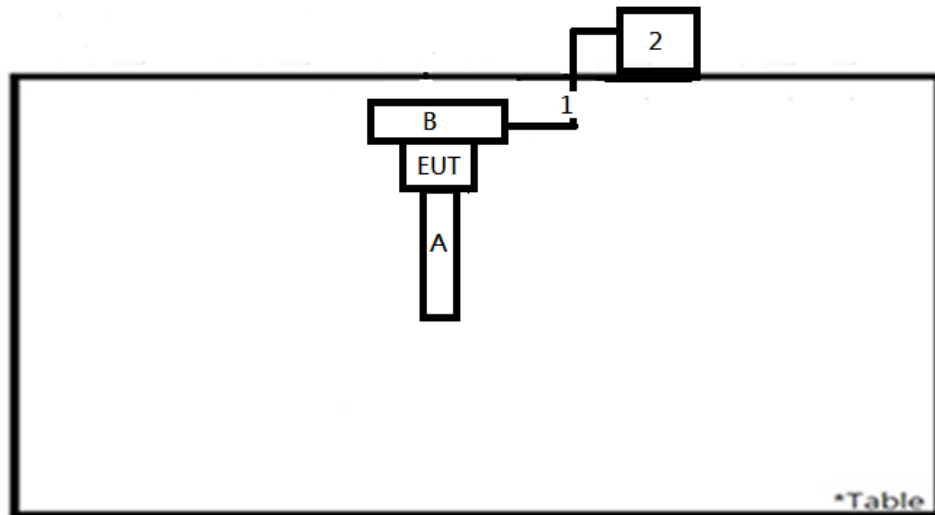
None.

Support Unit

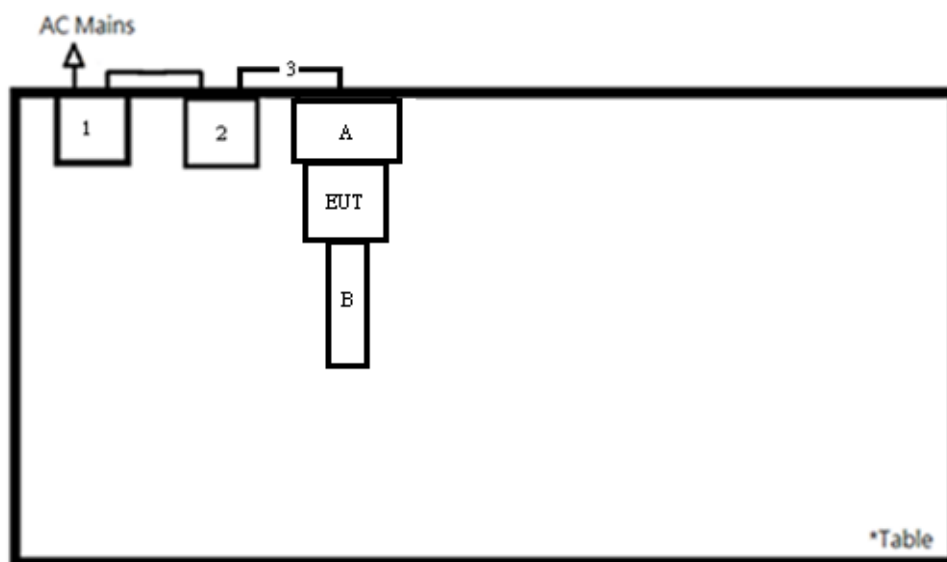
No.	Description	Brand	Model	S/N	Remark
Radiated Test					
A	Antenna	Microchip	-	-	-
B	Fixture 3400	Microchip	-	-	-
1	USB Cable	TUV	TUV-01	-	150 cm non-shielded cable w/o core
2	Notebook	Lenovo	81BL	MP1DCD6Y	-
Mains Conducted Test					
A	Fixture 3400	Microchip	-	-	-
B	antenna	Microchip	-	-	-
C	Fixture	Microchip	-	-	-
1	Adapter	HP	PPP009D	-	179 cm shielded cable w/o core
2	Notebook	Lenovo	81BL	MP1DCD6Y	-
3	USB Cable	TUV	TUV-01	-	150 cm non-shielded cable w/o core
Conducted Test					
-	Notebook	HP	TPN-C139	CND93662VF	-

4.5 Test Setup Diagram

<Radiated Spurious Emissions mode>



<Mains Conducted Emission mode>



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

Requirement Use of approved antennas only

According to the manufacturer declaration, the EUT has an antenna with max directional gain of 5 dBi. (Refer to External Antenna List). The antenna is connected through a proprietary connector with no possibility of replacement with a non-approved antenna by the end-user. Therefore, the EUT is considered to comply with this provision.

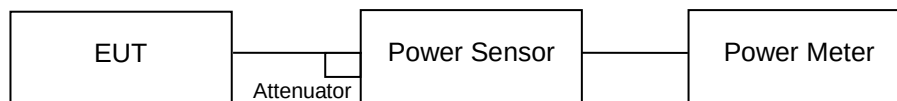
Refer to EUT photo for details.

5.1.2 Peak Output Power

Limit 1 watt (30 dBm)

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date	Test Date	
						From	Until
Power Meter	Anritsu	ML2495A	1901008	2022/3/15	2023/3/14	2022/5/27	2022/5/27
Power Sensor	Anritsu	MA2411B	1725269	2022/3/15	2023/3/14	2022/5/27	2022/5/27

Test Procedures

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

Average power sensor was used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

Test Result

Peak Output Power

<802.11b>

Channel	Channel Frequency (MHz)	Peak Output Power		Limit (dBm)
		(dBm)	(mW)	
1	2412	16.61	45.81	30
6	2437	16.64	46.13	30
11	2462	16.56	45.29	30

<802.11g>

Channel	Channel Frequency (MHz)	Peak Output Power		Limit (dBm)
		(dBm)	(mW)	
1	2412	20.33	107.89	30
6	2437	21.13	129.72	30
11	2462	21.06	127.64	30

<802.11n HT20>

Channel	Channel Frequency (MHz)	Peak Output Power		Limit (dBm)
		(dBm)	(mW)	
1	2412	19.37	86.50	30
6	2437	22.53	179.06	30
11	2462	21.82	152.05	30

Average Power**<802.11b>**

Channel	Channel Frequency (MHz)	Average Power	
		(dBm)	(mW)
1	2412	13.71	23.50
6	2437	13.76	23.77
11	2462	13.65	23.17

<802.11g>

Channel	Channel Frequency (MHz)	Average Power	
		(dBm)	(mW)
1	2412	11.23	13.27
6	2437	13.27	21.23
11	2462	12.86	19.32

<802.11n HT20>

Channel	Channel Frequency (MHz)	Average Power	
		(dBm)	(mW)
1	2412	11.59	14.42
6	2437	15.13	32.58
11	2462	14.29	26.85

5.1.3 Radiated Spurious Emissions and Band Edges

Limit

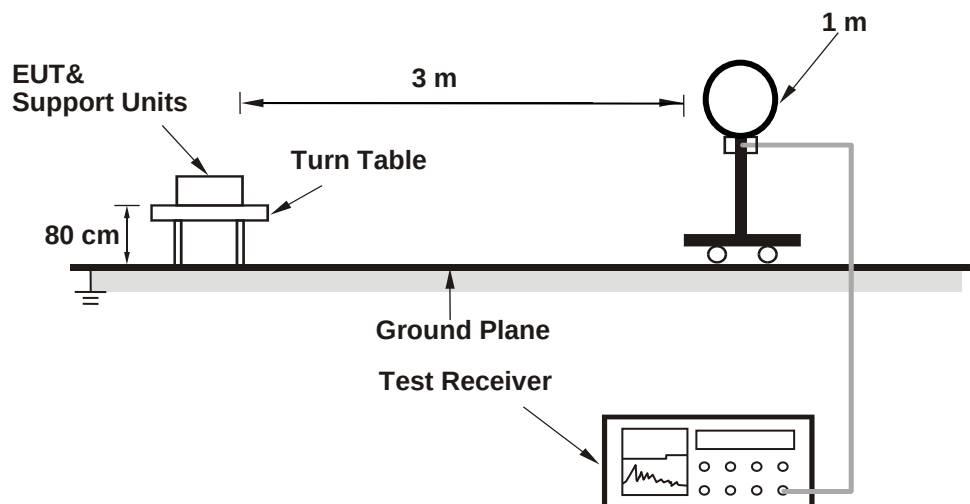
Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must comply with the radiated emission limits specified in §15.209(a).

Emissions radiated outside the restricted and authorized frequency bands must either comply with the radiated emission limits specified for the restricted bands or in §15.247(d).

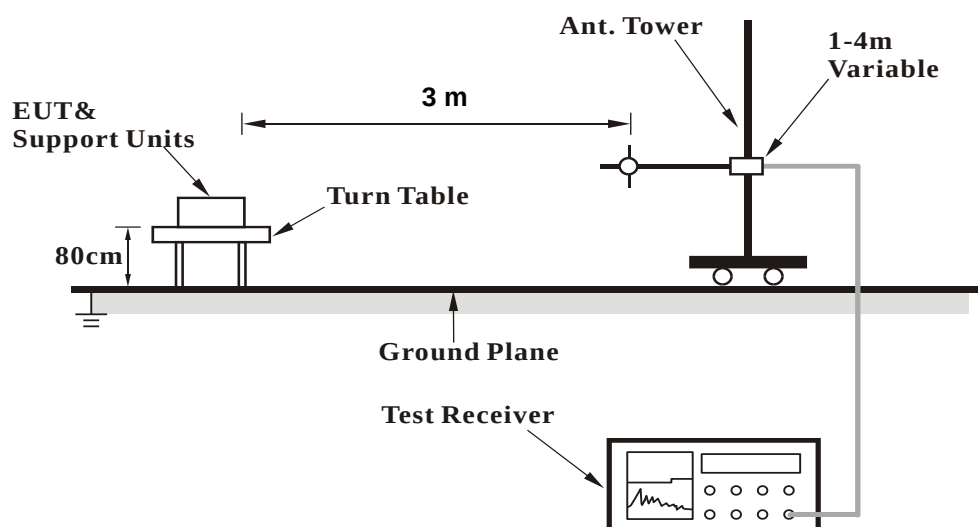
Kind of Test Site 3m Semi-Anechoic Chamber

Test Setup

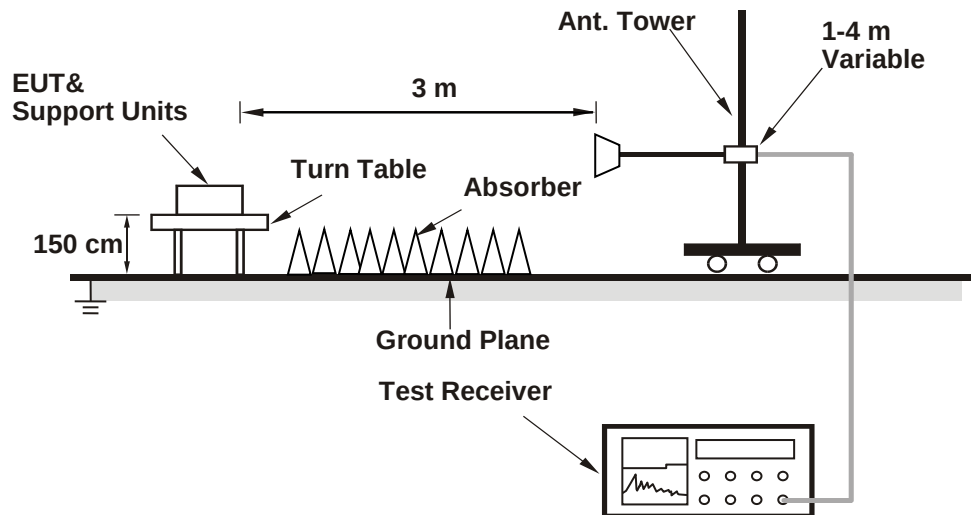
<Radiated Emissions below 30 MHz>



<Radiated Emissions 30 MHz to 1 GHz>



<Radiated Emissions above 1 GHz>



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

Test Instruments

Test Date: 2022/6/20 ~ 2022/6/27

Above 1GHz					
Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV40	101508	2022/4/13	2023/4/12
Horn Antenna	ETS-Lindgren	3117	00218930	2021/12/20	2022/12/19
HF-AMP + AC source	EMCI	EMC051845SE	980633	2022/2/16	2023/2/15
HF-AMP + AC source	EMCI	EMC184045SE	980657	2022/2/16	2023/2/15
Horn Antenna	SCHWARZBECK	BBHA 9170	00887	2022/3/29	2023/3/28
30MHz-1GHz					
Receiver	R&S	ESR7	102108	2022/4/28	2023/4/27
Bilog Antenna	SCHWARZBECK	VULB-9168	00951	2022/4/6	2023/4/5
LF-AMP	Agilent	8447D	2944A107722	2022/3/22	2023/3/21
Below 30MHz					
Receiver	R&S	ESR7	102108	2022/4/28	2023/4/27
Bilog Antenna	SCHWARZBECK	VULB-9168	00951	2022/4/6	2023/4/5
LF-AMP	Agilent	8447D	2944A107722	2022/3/22	2023/3/21

Test Procedures**For Radiated Emissions below 30 MHz**

- 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 (OPEN), perpendicular (CLOSE), and ground-parallel (GROUND) 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 9 kHz at frequency below 30 MHz.
2. All modes of operation were investigated and the worst-case emissions are reported.

For Radiated Emissions above 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30 MHz ~ 1 GHz) / 1.5 meters (for above 1 GHz) 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 detected 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 120 kHz for Quasi-peak detection (QP) or Peak detection (PK) at frequency below 1 GHz.
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 1 GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98 %) or 10 Hz (Duty cycle ≥ 98 %) for Average detection (AV) at frequency above 1 GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.
5. The Radiated Emissions testing was performed in the X(E1), Y(H) and Z(E2) axis orientation. The worst-case Axis orientation is recorded in this test report.

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Test Results

Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)

Level (dBuV/m) = Reading (dBuV) + Factor (dB/m)

Please refer to Appendix A for Ant 4 and Appendix B for Ant 7.

5.2 Mains Emission

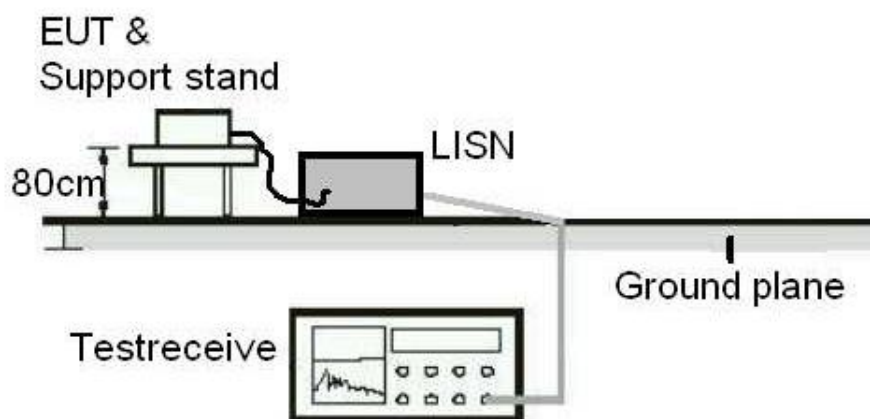
5.2.1 Mains Conducted Emission

Limit

Mains Conducted Emission as defined in §15.207 must comply with the mains conducted emission limits.

Kind of Test Site Shielded room

Test Setup



Test Instruments

Test Period: 2022/7/27

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Two-Line V-Network	Rohde & Schwarz	ENV216	101938	2021/9/23	2022/9/22
EMI Test Receiver	R&S	ESCI	1816063	2021/11/15	2022/11/14

Test Procedures

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

Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz – 30 MHz.

Test Results

Please refer to Appendix A for Ant 4 and Appendix B for Ant 7.

Appendix A:

Test Results of Radiated Spurious Emissions & Mains Conducted

Emission for Ant No. 4

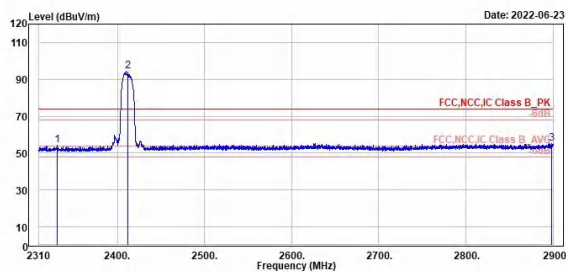
Band Edges, 2.31GHz ~ 2.9GHz

802.11b

Low Channel (Horizontal) Peak



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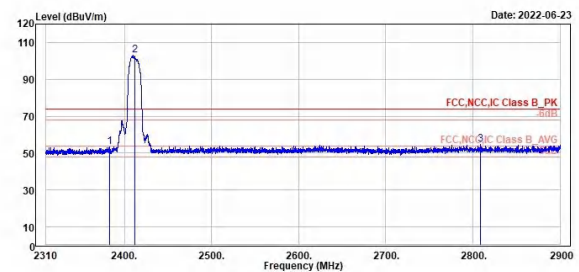


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2331.12	54.29	16.98	37.31	74.00	-19.71	151	336	Peak	Horizontal		
2 *	2412.00	94.28	56.63	37.65	74.00	20.28	151	336	Peak	Horizontal		
3	2898.11	55.41	17.00	38.41	74.00	-18.59	151	336	Peak	Horizontal		

Low Channel (Vertical) Peak



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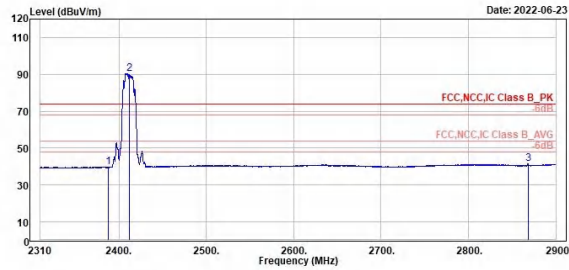
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2382.81	53.53	15.99	37.54	74.00	-20.47	396	70	Peak	Vertical		
2 *	2412.00	103.24	65.59	37.65	74.00	29.24	396	70	Peak	Vertical		
3	2808.79	54.77	16.58	38.19	74.00	-19.23	396	70	Peak	Vertical		

802.11b

Low Channel (Horizontal) Average



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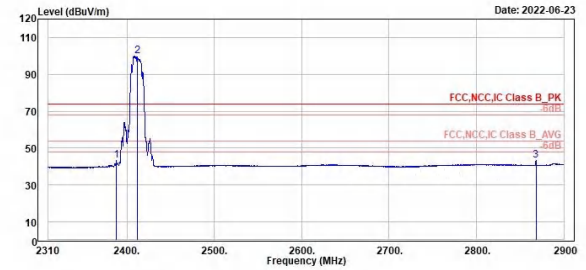


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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2387.88	39.81	2.24	37.57	54.00	-14.19		151	336	Average	Horizontal	
2 *	2412.00	90.56	52.91	37.65	54.00	36.56		151	336	Average	Horizontal	
3	2868.02	41.43	3.18	38.25	54.00	-12.57		151	336	Average	Horizontal	

Low Channel (Vertical) Average



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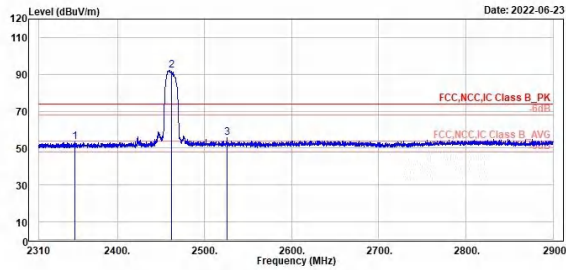
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2388.00	43.39	5.82	37.57	54.00	-10.61		396	70	Average	Vertical	
2 *	2412.00	99.78	62.13	37.65	54.00	45.78		396	70	Average	Vertical	
3	2867.90	43.41	5.16	38.25	54.00	-10.59		396	70	Average	Vertical	

802.11b

High Channel (Horizontal) Peak



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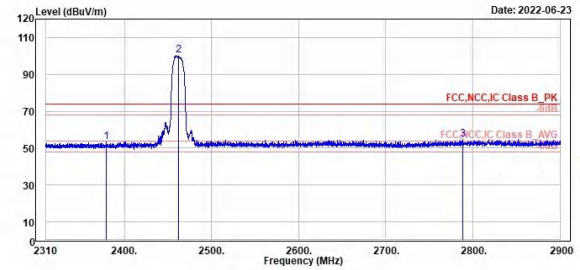


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2358.95	53.25	15.88	37.37	74.00	-20.75	196	330	Peak	Horizontal		
2 *	2462.00	92.37	54.64	37.73	74.00	18.37	196	330	Peak	Horizontal		
3	2525.94	55.44	17.56	37.88	74.00	-18.56	196	330	Peak	Horizontal		

High Channel (Vertical) Peak



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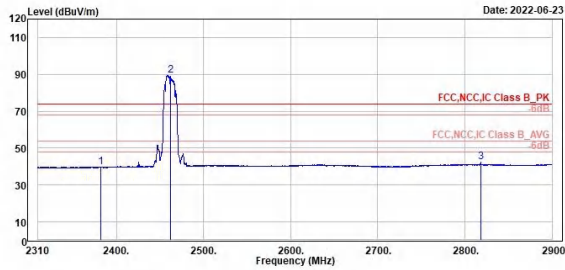
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2379.38	53.28	15.75	37.53	74.00	-20.72	344	199	Peak	Vertical		
2 *	2462.00	100.20	62.47	37.73	74.00	26.20	344	199	Peak	Vertical		
3	2788.25	54.90	16.71	38.19	74.00	-19.10	344	199	Peak	Vertical		

802.11b

High Channel (Horizontal) Average



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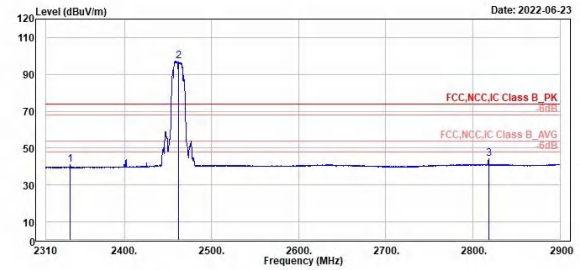


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2382.10	39.80	2.26	37.54	54.00	-14.20		196	330	Average	Horizontal	
2 *	2462.00	89.35	51.62	37.73	54.00	35.35		196	330	Average	Horizontal	
3	2818.11	42.27	4.08	38.19	54.00	-11.73		196	330	Average	Horizontal	

High Channel (Vertical) Average



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2337.97	41.12	3.78	37.34	54.00	-12.88		344	199	Average	Vertical	
2 *	2462.00	97.10	59.37	37.73	54.00	43.10		344	199	Average	Vertical	
3	2817.99	44.22	6.03	38.19	54.00	-9.78		344	199	Average	Vertical	

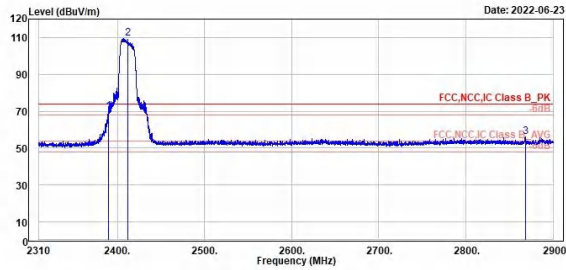
802.11g

Low Channel (Horizontal) Peak

Low Channel (Vertical) Peak



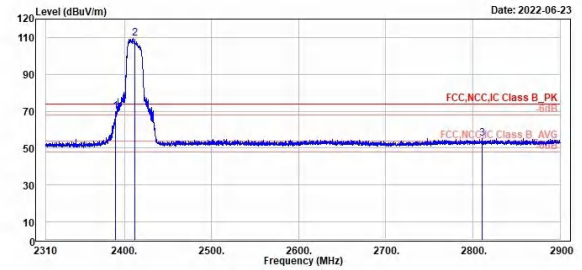
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2398.00	69.81	32.23	37.58	74.00	-4.19	152	337	Peak	Horizontal		
2 *	2412.00	109.66	72.01	37.65	74.00	35.66	152	337	Peak	Horizontal		
3	2868.02	56.33	18.08	38.25	74.00	-17.67	152	337	Peak	Horizontal		



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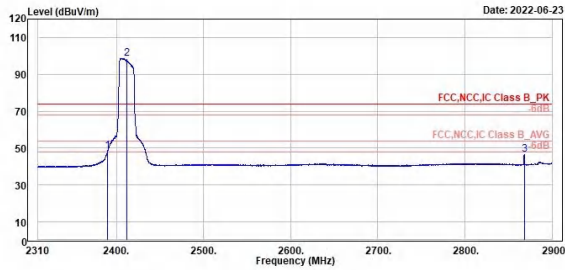
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1	2389.89	69.80	32.22	37.58	74.00	-4.20	356	331	Peak	Vertical		
2 *	2412.00	109.28	71.63	37.65	74.00	35.28	356	331	Peak	Vertical		
3	2810.67	55.22	17.02	38.20	74.00	-18.78	356	331	Peak	Vertical		

802.11g

Low Channel (Horizontal) Average



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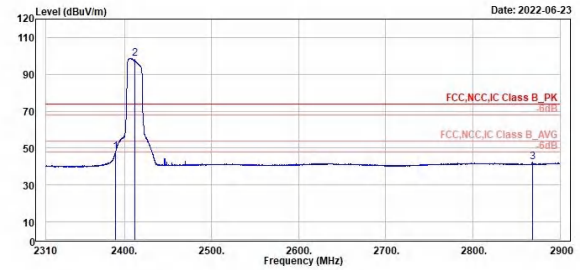


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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2398.00	48.22	10.64	37.58	54.00	-5.78	152	337	Average	Horizontal		
2	2412.00	98.76	61.11	37.65	54.00	44.76	152	337	Average	Horizontal		
3	2868.02	46.71	8.46	38.25	54.00	-7.29	152	337	Average	Horizontal		

Low Channel (Vertical) Average



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2398.00	48.11	10.53	37.58	54.00	-5.89	356	331	Average	Vertical		
2	2412.00	98.68	61.03	37.65	54.00	44.68	356	331	Average	Vertical		
3	2868.02	42.21	3.96	38.25	54.00	-11.79	356	331	Average	Vertical		

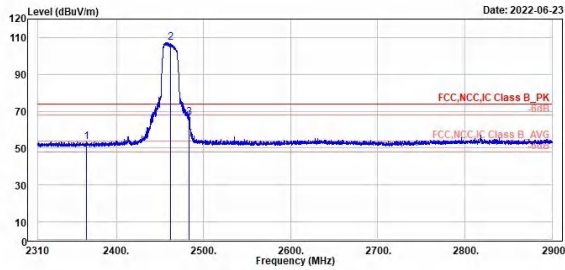
802.11g

High Channel (Horizontal) Peak

High Channel (Vertical) Peak



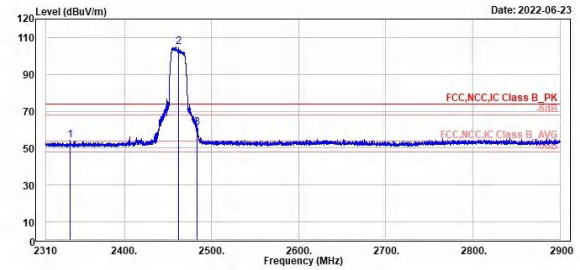
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	2366.17	53.58	16.13	37.45	74.00	-20.42	124	332	Peak	Horizontal		
2 *	2462.00	107.34	69.61	37.73	74.00	33.34	124	332	Peak	Horizontal		
3	2483.81	66.81	29.01	37.80	74.00	-7.19	124	332	Peak	Horizontal		



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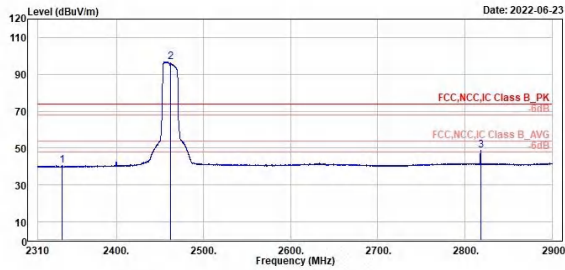
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1	2337.85	54.26	16.92	37.34	74.00	-19.74	340	185	Peak	Vertical		
2 *	2462.00	104.90	67.17	37.73	74.00	30.90	340	185	Peak	Vertical		
3	2483.58	60.98	23.18	37.80	74.00	-13.02	340	185	Peak	Vertical		

802.11g

High Channel (Horizontal) Average



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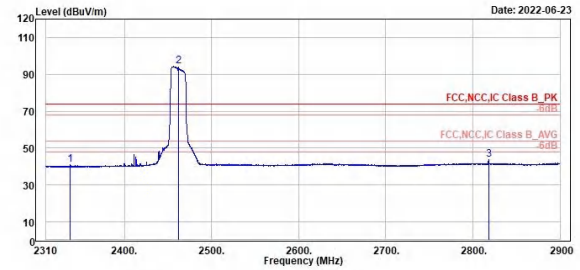


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2337.85	40.65	3.31	37.34	54.00	-13.35	124	332	Average	Horizontal		
2 *	2462.00	96.92	59.19	37.73	54.00	42.92	124	332	Average	Horizontal		
3 !	2817.99	48.67	10.48	38.19	54.00	-5.33	124	332	Average	Horizontal		

High Channel (Vertical) Average



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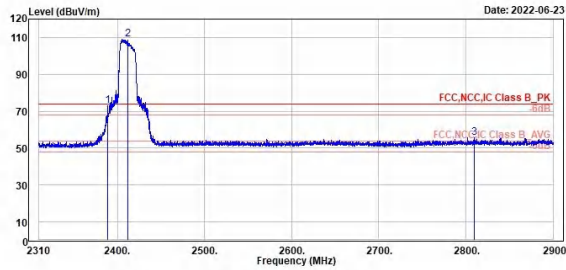
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1	2337.97	41.27	3.93	37.34	54.00	-12.73	340	185	Average	Vertical		
2 *	2462.00	94.23	56.50	37.73	54.00	40.23	340	185	Average	Vertical		
3	2817.99	43.73	5.54	38.19	54.00	-10.27	340	185	Average	Vertical		

802.11n HT20

Low Channel (Horizontal) Peak



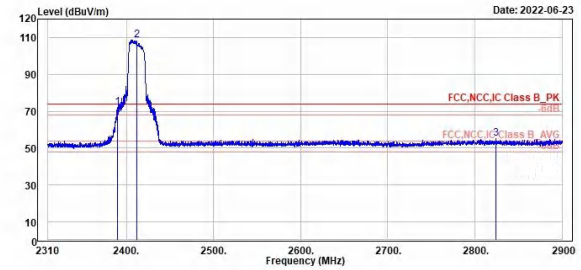
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.06	73.14	35.56	37.58	74.00	-0.86	152	336	Peak	Horizontal		
2 *	2412.00	108.94	71.29	37.65	74.00	34.94	152	336	Peak	Horizontal		
3	2809.49	55.58	17.38	38.20	74.00	-18.42	152	336	Peak	Horizontal		



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.65	71.91	34.33	37.58	74.00	-2.09	356	328	Peak	Vertical		
2 *	2412.00	108.61	70.96	37.65	74.00	34.61	356	328	Peak	Vertical		
3	2824.36	55.31	17.13	38.18	74.00	-18.69	356	328	Peak	Vertical		

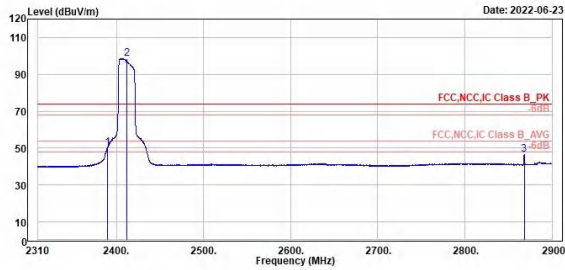
802.11n HT20

Low Channel (Horizontal) Average

Low Channel (Vertical) Average



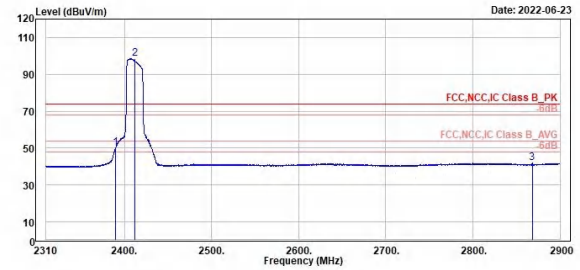
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.77	50.37	12.79	37.58	54.00	-3.63	152	336	Average	Horizontal		
2	2412.00	98.64	60.99	37.65	54.00	44.64	152	336	Average	Horizontal		
3	2867.90	46.57	8.32	38.25	54.00	-7.43	152	336	Average	Horizontal		



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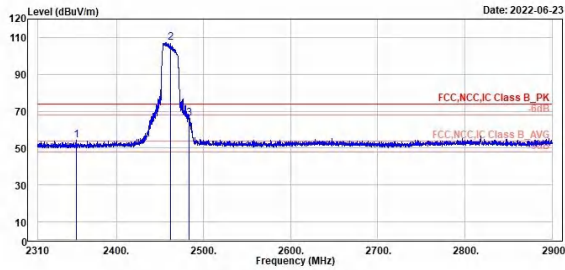
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2390.00	50.35	12.77	37.58	54.00	-3.65	356	328	Average	Vertical		
2	2412.00	98.41	60.76	37.65	54.00	44.41	356	328	Average	Vertical		
3	2867.90	41.94	3.69	38.25	54.00	-12.06	356	328	Average	Vertical		

802.11n HT20

High Channel (Horizontal) Peak



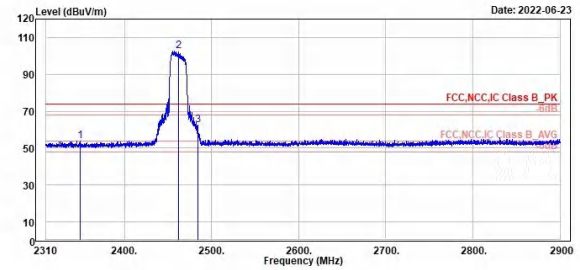
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2353.90	54.14	16.74	37.40	74.00	-19.86	122	341	Peak	Horizontal		
2 *	2462.00	107.31	69.58	37.73	74.00	33.31	122	341	Peak	Horizontal		
3	2483.58	66.33	28.53	37.80	74.00	-7.67	122	341	Peak	Horizontal		



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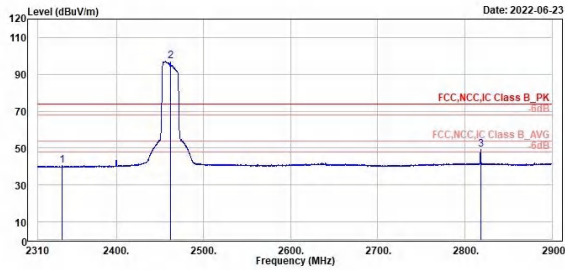
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2348.94	53.99	16.62	37.37	74.00	-20.01	340	214	Peak	Vertical		
2 *	2462.00	102.85	65.12	37.73	74.00	28.85	340	214	Peak	Vertical		
3	2484.52	62.46	24.66	37.80	74.00	-11.54	340	214	Peak	Vertical		

802.11n HT20

High Channel (Horizontal) Average



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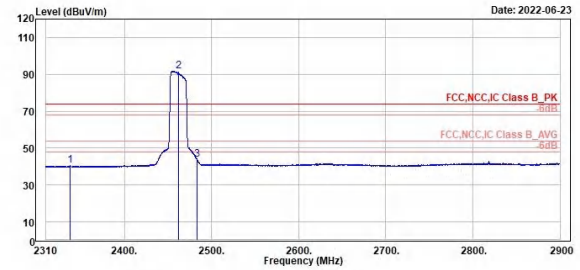


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2337.85	40.55	3.21	37.34	54.00	-13.45	122	341	Average	Horizontal		
2 *	2462.00	97.05	59.32	37.73	54.00	43.05	122	341	Average	Horizontal		
3 !	2817.99	49.17	10.98	38.19	54.00	-4.83	122	341	Average	Horizontal		

High Channel (Vertical) Average



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2337.61	40.68	3.26	37.34	54.00	-13.40	340	214	Average	Vertical		
2 *	2462.00	91.68	53.95	37.73	54.00	37.68	340	214	Average	Vertical		
3	2483.46	43.99	6.19	37.80	54.00	-10.01	340	214	Average	Vertical		

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

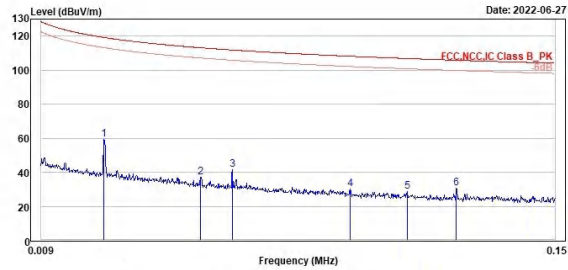
802.11n HT20

Middle Channel 9kHz~150kHz(Open)

Middle Channel 150kHz~30MHz(Open)



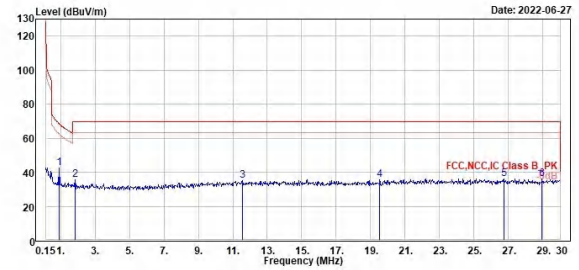
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	0.03	59.14	39.96	19.18	119.18	-69.04	100	38	QP	Open	
2	0.05	37.27	18.02	19.25	113.13	-75.86	100	70	QP	Open	
3	0.06	41.31	22.25	19.06	111.02	-70.51	100	107	QP	Open	
4	0.09	30.36	12.01	18.35	108.16	-77.80	100	177	QP	Open	
5	0.11	28.81	10.56	18.25	106.82	-78.01	100	119	QP	Open	
6	0.12	30.47	12.17	18.30	105.80	-75.33	100	121	QP	Open	



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	0.93	42.51	23.28	19.23	68.27	-25.76	100	208	QP	Open	
2	1.85	35.63	16.24	19.39	69.50	-33.87	100	202	QP	Open	
3	11.55	35.27	13.66	21.61	69.50	-34.23	100	246	QP	Open	
4	19.52	35.56	13.39	22.17	69.50	-33.94	100	124	QP	Open	
5	26.75	36.20	13.70	22.50	69.50	-33.30	100	74	QP	Open	
6	28.96	36.16	13.56	22.60	69.50	-33.34	100	343	QP	Open	

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

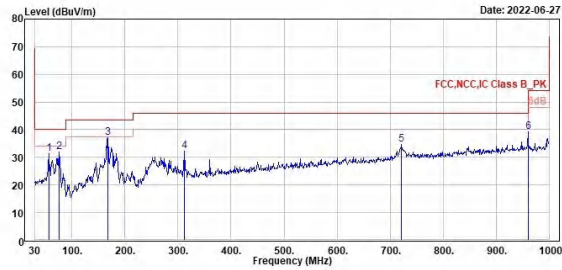
802.11n HT20

Middle Channel (Horizontal)

Middle Channel (Vertical)



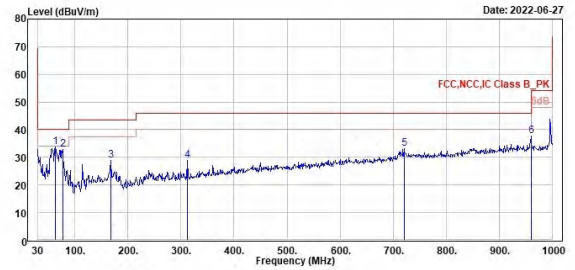
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	56.19	31.27	37.95	-6.68	40.00	-8.73	200	88	QP		Horizontal	
2	75.59	31.91	41.49	-9.58	40.00	-8.09	400	77	QP		Horizontal	
3	167.74	37.19	43.18	-5.99	43.50	-6.31	200	224	QP		Horizontal	
4	312.27	32.31	36.95	-4.64	46.00	-13.69	100	198	QP		Horizontal	
5	721.61	34.75	32.99	1.76	46.00	-11.25	100	176	QP		Horizontal	
6	960.23	39.12	33.40	5.72	54.00	-14.88	100	128	QP		Horizontal	



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	62.98	33.64	41.29	-7.65	40.00	-6.36	100	114	QP		Vertical	
2	76.56	32.86	42.64	-9.78	40.00	-7.14	100	149	QP		Vertical	
3	167.74	29.05	35.04	-5.99	43.50	-14.45	200	320	QP		Vertical	
4	312.27	28.93	33.57	-4.64	46.00	-17.07	100	141	QP		Vertical	
5	720.64	33.05	31.29	1.76	46.00	-12.95	300	315	QP		Vertical	
6	960.23	37.63	31.91	5.72	54.00	-16.37	100	149	QP		Vertical	

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

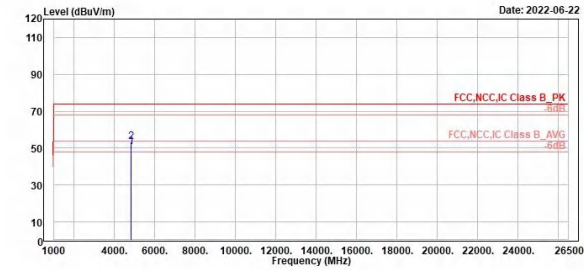
802.11b

Low Channel (Horizontal)

Low Channel (Vertical)



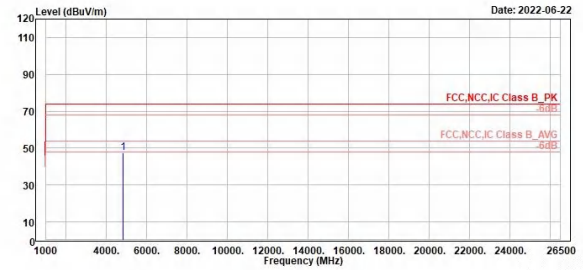
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	4824.00	50.65	60.46	-9.81	54.00	-3.35	300	209	Average	Horizontal		
2	4824.00	53.36	63.17	-9.81	74.00	-20.64	300	209	Peak	Horizontal		



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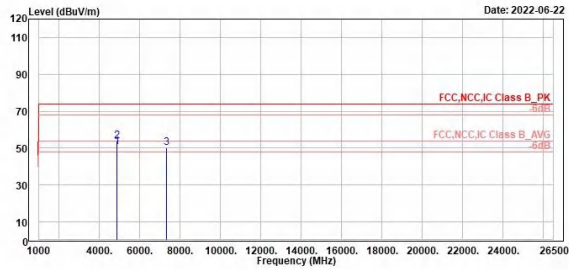
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	4824.00	47.43	57.24	-9.81	74.00	-26.57	400	95	Peak	Vertical		

802.11b

Middle Channel (Horizontal)



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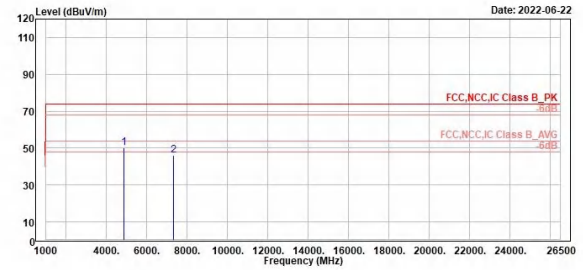


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1 4874.00	50.55	60.32	-9.77	54.00	-3.45	277	360	Average	Horizontal		
2 4874.00	53.77	63.54	-9.77	74.00	-20.23	277	360	Peak	Horizontal		
3 7311.00	50.09	57.60	-7.51	74.00	-23.91	100		3 Peak	Horizontal		

Middle Channel (Vertical)



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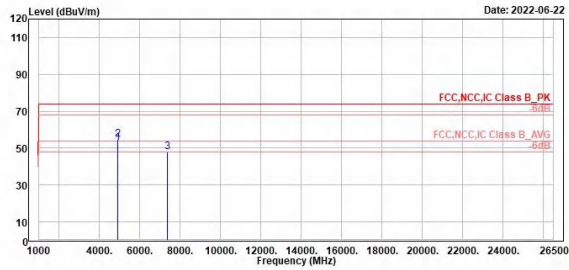
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1 4874.00	50.17	59.94	-9.77	74.00	-23.83	400	157	Peak	Vertical		
2 7311.00	45.97	53.48	-7.51	74.00	-28.03	300		278 Peak	Vertical		

802.11b

High Channel (Horizontal)



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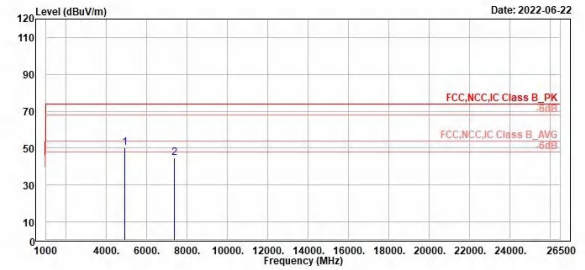


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1 4924.00	52.74	62.42	-9.68	54.00	-1.26	302	33	Average	Horizontal		
2 4924.00	54.71	64.39	-9.68	74.00	-19.29	302	33	Peak	Horizontal		
3 7386.00	47.90	55.33	-7.43	74.00	-26.10	100	24	Peak	Horizontal		

High Channel (Vertical)



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1 4924.00	50.18	59.86	-9.68	74.00	-23.82	334	360	Peak	Vertical		
2 7386.00	44.63	52.06	-7.43	74.00	-29.37	400	268	Peak	Vertical		

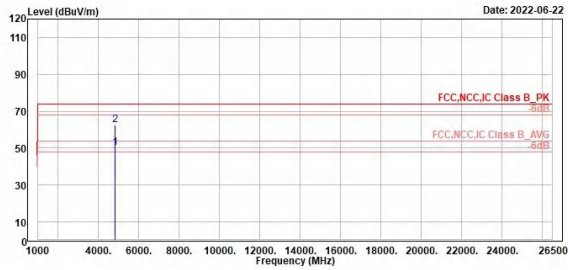
802.11g

Low Channel (Horizontal)

Low Channel (Vertical)



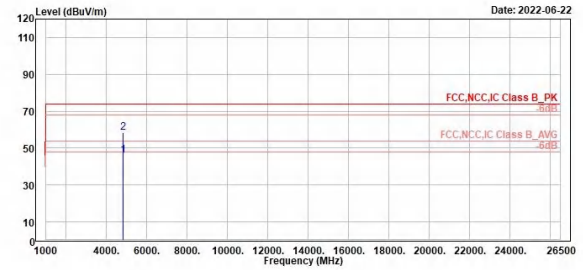
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1 4824.00	50.01	59.82	-9.81	54.00	-3.99	316	27	Average	Horizontal		
2 4824.00	62.56	72.37	-9.81	74.00	-11.44	316	27	Peak	Horizontal		



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1 4824.00	46.01	55.82	-9.81	54.00	-7.99	379	211	Average	Vertical		
2 4824.00	58.33	68.14	-9.81	74.00	-15.67	379	211	Peak	Vertical		

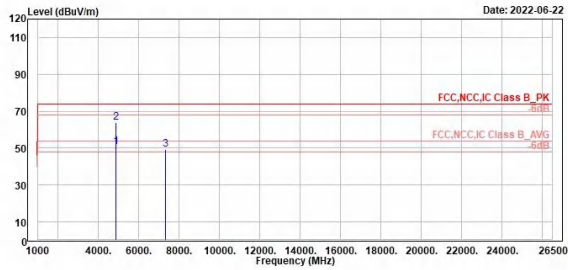
802.11g

Middle Channel (Horizontal)

Middle Channel (Vertical)



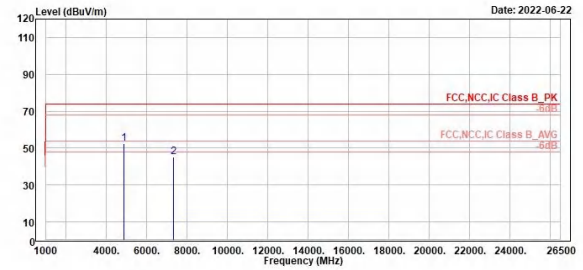
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4874.00	50.59	60.36	-9.77	54.00	-3.41	280	285	Average	Horizontal		
2	4874.00	64.06	73.83	-9.77	74.00	-9.94	280	285	Peak	Horizontal		
3	7311.00	49.10	56.61	-7.51	74.00	-24.90	294		3 Peak	Horizontal		



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4874.00	52.33	62.10	-9.77	74.00	-21.67	400	167	Peak	Vertical		
2	7311.00	45.31	52.82	-7.51	74.00	-28.69	400	311	Peak	Vertical		

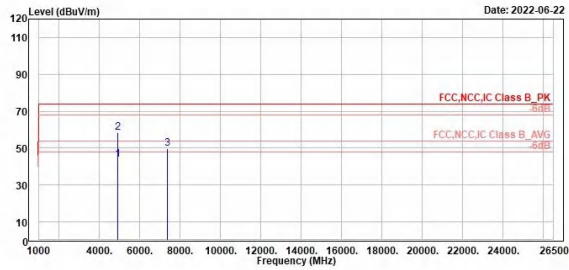
802.11g

High Channel (Horizontal)

High Channel (Vertical)



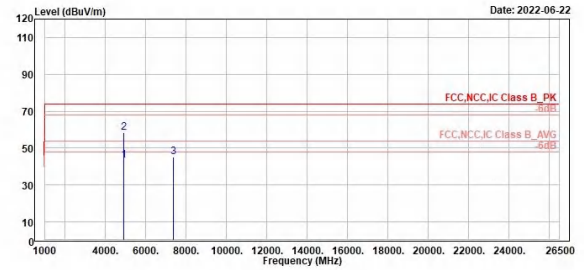
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4924.00	43.97	53.65	-9.68	54.00	-10.03	112	360	Average	Horizontal		
2	4924.00	58.49	68.17	-9.68	74.00	-15.51	112	360	Peak	Horizontal		
3	7386.00	49.76	57.19	-7.43	74.00	-24.24	100	62	Peak	Horizontal		



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4924.00	43.42	53.10	-9.68	54.00	-10.58	335	212	Average	Vertical		
2	4924.00	58.45	68.13	-9.68	74.00	-15.55	335	212	Peak	Vertical		
3	7386.00	45.36	52.79	-7.43	74.00	-28.64	100	225	Peak	Vertical		

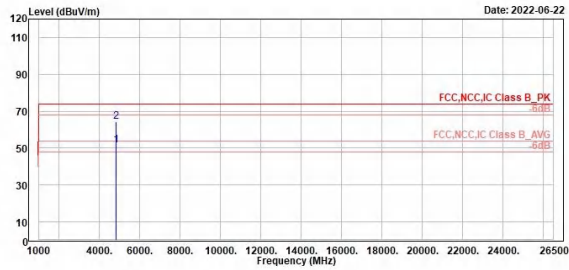
802.11n HT20

Low Channel (Horizontal)

Low Channel (Vertical)



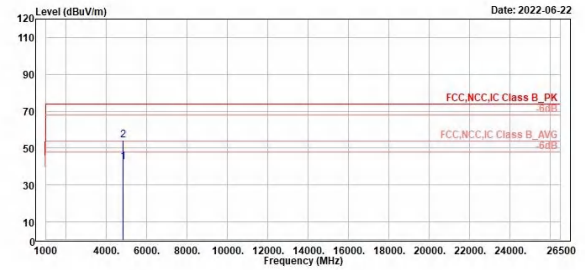
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4824.00	51.44	61.25	-9.81	54.00	-2.56	228	29	Average	Horizontal		
2	4824.00	64.19	74.00	-9.81	74.00	-9.81	228	29	Peak	Horizontal		



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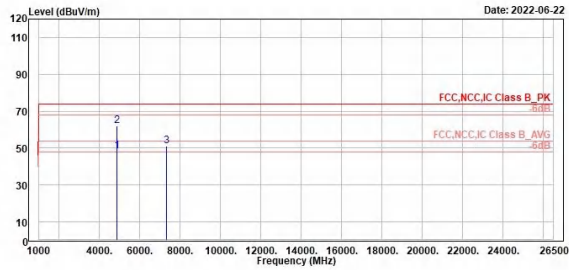
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4824.00	42.35	52.16	-9.81	54.00	-11.65	400	207	Average	Vertical		
2	4824.00	54.21	64.02	-9.81	74.00	-19.79	400	207	Peak	Vertical		

802.11n HT20

Middle Channel (Horizontal)



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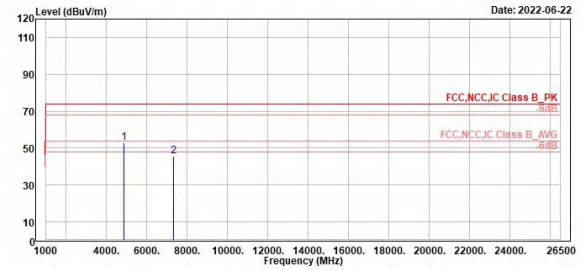


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1 4874.00	48.15	57.92	-9.77	54.00	-5.85	277	360	Average	Horizontal		
2 4874.00	62.16	71.93	-9.77	74.00	-11.84	277	360	Peak	Horizontal		
3 7311.00	51.06	58.57	-7.51	74.00	-22.94	100	326	Peak	Horizontal		

Middle Channel (Vertical)



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1 4874.00	52.82	62.59	-9.77	74.00	-21.18	100	33	Peak	Vertical		
2 7311.00	45.74	53.25	-7.51	74.00	-28.26	300	92	Peak	Vertical		

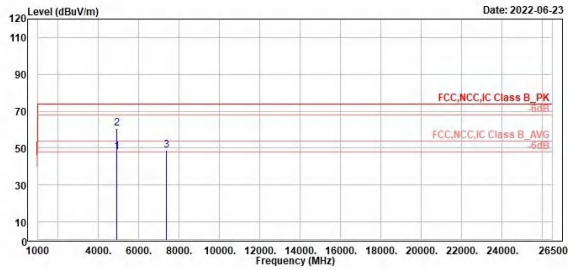
802.11n HT20

High Channel (Horizontal)

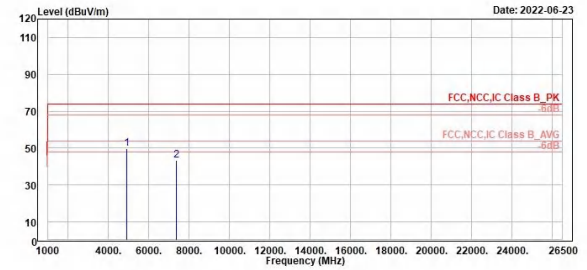
High Channel (Vertical)



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Mains Conducted Emission, 150kHz ~ 30MHz

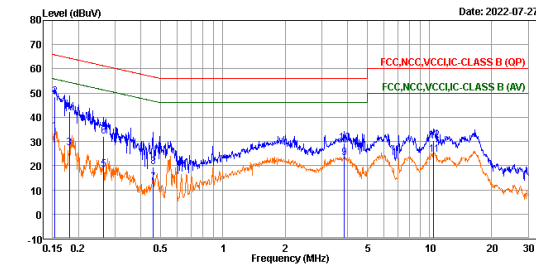
Worst Band

(Line)

(Neutral)



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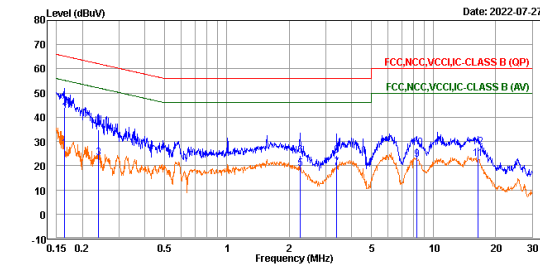


Trace: 1

	Freq	Level	Read	Limit	Over		
	MHz	dBuV	Level	Line	Limit	Remark	Pol/Phase
	MHz	dBuV	Factor	dB	dB		Note
1	0.15	34.25	24.64	9.61	55.79	-21.54 Average	line1
2	0.15	48.42	38.81	9.61	65.79	-17.37 QP	line1
3	0.18	27.36	17.75	9.61	54.47	-27.11 Average	line1
4	0.18	42.44	32.83	9.61	64.47	-22.03 QP	line1
5	0.26	18.43	8.82	9.61	51.28	-32.85 Average	line1
6	0.26	32.09	22.48	9.61	61.28	-29.19 QP	line1
7	0.46	13.02	3.40	9.62	46.73	-33.71 Average	line1
8	0.46	19.31	9.69	9.62	56.73	-37.42 QP	line1
9	3.87	23.13	13.46	9.67	46.00	-22.87 Average	line1
10	3.87	29.20	19.53	9.67	56.00	-26.80 QP	line1
11	10.48	24.69	14.96	9.73	50.00	-25.31 Average	line1
12	10.48	30.43	20.70	9.73	60.00	-29.57 QP	line1



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Trace: 1

	Freq	Level	Read	Limit	Over		
	MHz	dBuV	Level	Line	Limit	Remark	Pol/Phase
	MHz	dBuV	Factor	dB	dB		Note
1	0.16	27.03	17.44	9.59	55.30	-28.27 Average	neutral
2	0.16	44.18	34.59	9.59	65.30	-21.12 QP	neutral
3	0.24	23.23	13.64	9.59	52.15	-28.92 Average	neutral
4	0.24	34.70	25.11	9.59	62.15	-27.45 QP	neutral
5	2.26	18.61	8.98	9.63	46.00	-27.39 Average	neutral
6	2.26	24.19	14.56	9.63	56.00	-31.81 QP	neutral
7	3.40	18.98	9.32	9.66	46.00	-27.02 Average	neutral
8	3.40	24.08	14.42	9.66	56.00	-31.92 QP	neutral
9	8.33	22.38	12.66	9.72	50.00	-27.62 Average	neutral
10	8.33	27.19	17.47	9.72	60.00	-32.81 QP	neutral
11	16.33	22.72	12.94	9.78	50.00	-27.28 Average	neutral
12	16.33	27.64	17.86	9.78	60.00	-32.36 QP	neutral

Appendix B:

Test Results of Radiated Spurious Emissions & Mains Conducted

Emission for Ant No. 7

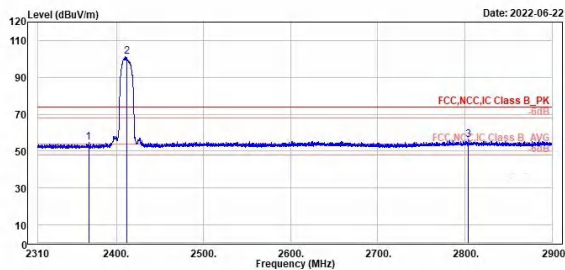
Band Edges, 2.31GHz ~ 2.9GHz

802.11b

Low Channel (Horizontal) Peak



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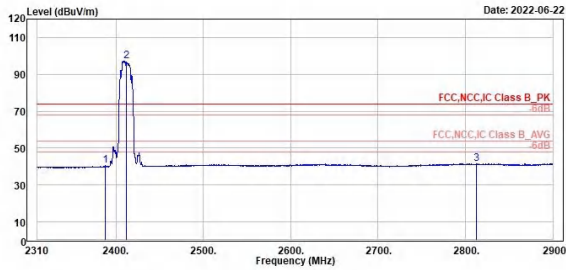
	Freq	Read		Limit		APos	TPos	Remark	Pol/Phase	Note
		Level	Factor	Line	Over Limit					
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2368.174	54.78	17.32	37.46	74.00	-19.22	278	96	Peak	Horizontal
2 *	2412.000	101.39	63.74	37.65	74.00	27.39	278	96	Peak	Horizontal
3	2803.948	55.99	17.79	38.20	74.00	-18.81	278	96	Peak	Horizontal

802.11b

Low Channel (Horizontal) Average



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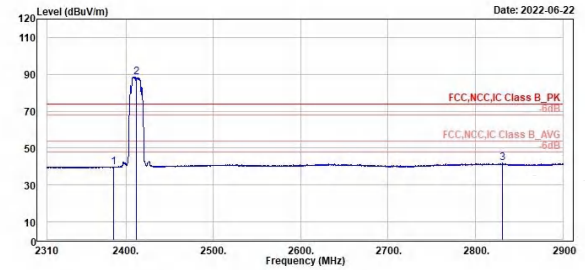


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1 2387.998	40.59	3.02	37.57	54.00	-13.41	278	96	Average	Horizontal		
2 * 2412.000	97.10	59.45	37.65	54.00	43.10	278	96	Average	Horizontal		
3 2812.680	41.54	3.35	38.19	54.00	-12.46	278	96	Average	Horizontal		

Low Channel (Vertical) Average



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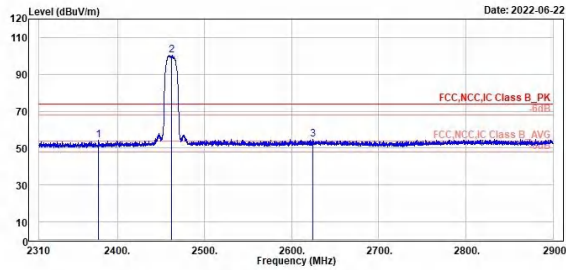
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MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1 2385.874	39.86	2.30	37.56	54.00	-14.14	253	171	Average	Vertical		
2 * 2412.000	88.70	51.05	37.65	54.00	34.70	253	171	Average	Vertical		
3 2831.206	41.79	3.61	38.18	54.00	-12.21	253	171	Average	Vertical		

802.11b

High Channel (Horizontal) Peak



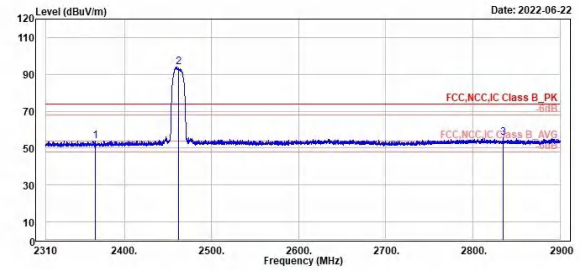
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2378.322	54.17	16.65	37.52	74.00	-19.83	264	270	Peak	Horizontal	
2 *	2462.000	100.29	62.56	37.73	74.00	26.29	264	270	Peak	Horizontal	
3	2624.234	54.78	16.78	38.00	74.00	-19.22	264	270	Peak	Horizontal	



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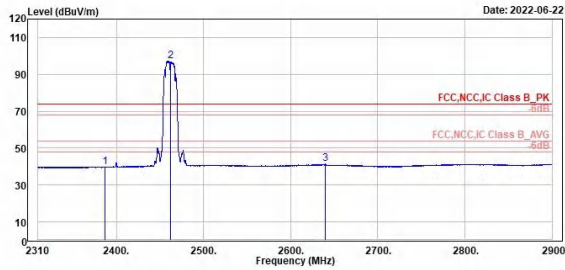
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2366.404	53.88	16.42	37.46	74.00	-20.12	374	124	Peak	Vertical	
2 *	2462.000	93.93	56.20	37.73	74.00	19.93	374	124	Peak	Vertical	
3	2834.510	55.45	17.28	38.17	74.00	-18.55	374	124	Peak	Vertical	

802.11b

High Channel (Horizontal) Average



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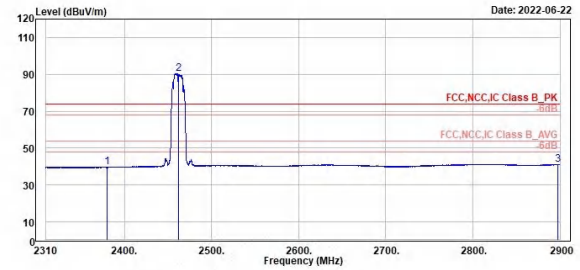


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MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1 2386.582	39.86	2.29	37.57	54.00	-14.14	264	270	Average	Horizontal		
2 * 2462.000	97.21	59.48	37.73	54.00	43.21	264	270	Average	Horizontal		
3 2640.046	41.69	3.67	38.02	54.00	-12.31	264	270	Average	Horizontal		

High Channel (Vertical) Average



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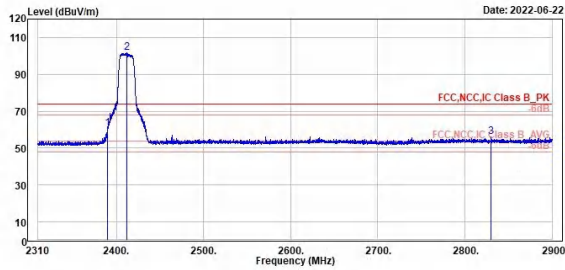
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MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1 2388.092	39.89	2.36	37.53	54.00	-14.11	374	124	Average	Vertical		
2 * 2462.000	90.46	52.73	37.73	54.00	36.46	374	124	Average	Vertical		
3 2897.640	41.25	2.84	38.41	54.00	-12.75	374	124	Average	Vertical		

802.11g

Low Channel (Horizontal) Peak



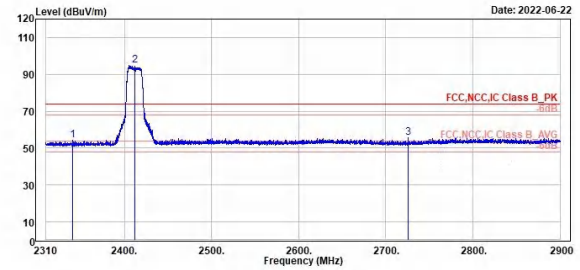
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	2389.768	60.58	23.00	37.58	74.00	-13.42		272	270	Peak	Horizontal	
2 *	2412.000	101.79	64.14	37.65	74.00	27.79		272	270	Peak	Horizontal	
3	2830.262	56.19	18.01	38.18	74.00	-17.81		272	270	Peak	Horizontal	



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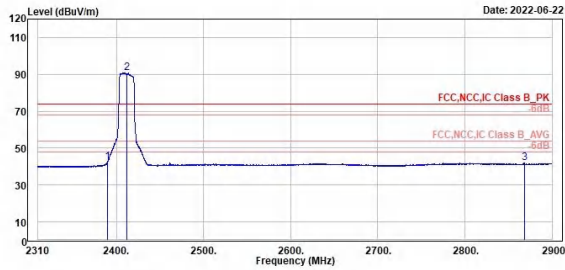
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	2340.798	54.42	17.08	37.34	74.00	-19.58		253	172	Peak	Vertical	
2 *	2412.000	94.69	57.04	37.65	74.00	20.69		253	172	Peak	Vertical	
3	2725.714	55.49	17.47	38.02	74.00	-18.51		253	172	Peak	Vertical	

802.11g

Low Channel (Horizontal) Average



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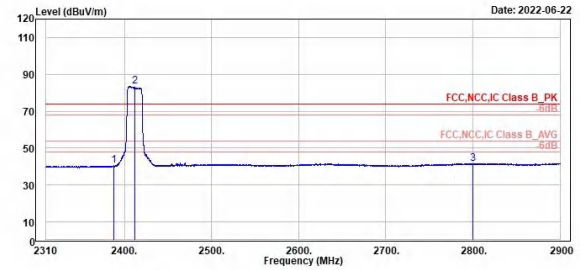


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.768	42.52	4.94	37.58	54.00	-11.48	272	270	Average	Horizontal	
2	* 2412.000	90.94	53.29	37.65	54.00	36.94	272	270	Average	Horizontal	
3	2868.022	42.02	3.77	38.25	54.00	-11.98	272	270	Average	Horizontal	

Low Channel (Vertical) Average



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2388.352	40.43	2.86	37.57	54.00	-13.57	253	172	Average	Vertical	
2	* 2412.000	83.58	45.93	37.65	54.00	29.58	253	172	Average	Vertical	
3	2880.172	41.73	3.53	38.20	54.00	-12.27	253	172	Average	Vertical	

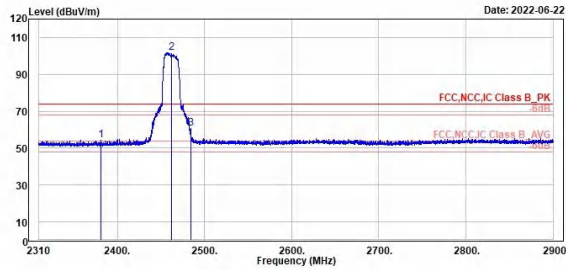
802.11g

High Channel (Horizontal) Peak

High Channel (Vertical) Peak



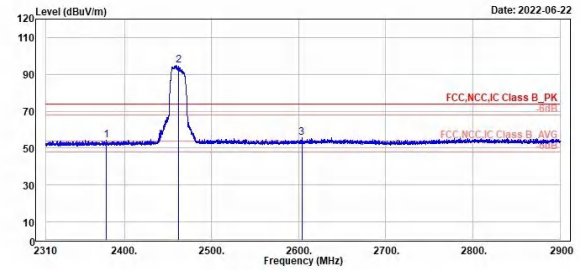
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2381.036	54.26	16.73	37.53	74.00	-19.74	265	266	Peak	Horizontal		
2 *	2462.000	101.87	64.14	37.73	74.00	27.87	265	266	Peak	Horizontal		
3	2484.050	60.76	22.96	37.80	74.00	-13.24	265	266	Peak	Horizontal		



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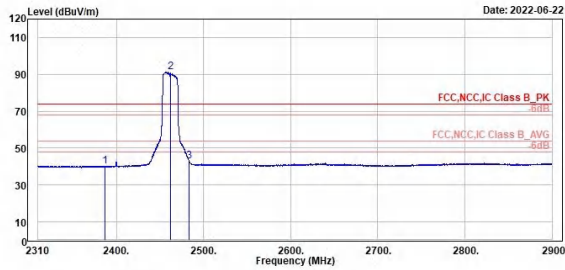
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1	2378.912	54.18	16.65	37.53	74.00	-19.82	329	226	Peak	Vertical		
2 *	2462.000	94.69	56.96	37.73	74.00	20.69	329	226	Peak	Vertical		
3	2603.584	55.73	17.76	37.97	74.00	-18.27	329	226	Peak	Vertical		

802.11g

High Channel (Horizontal) Average



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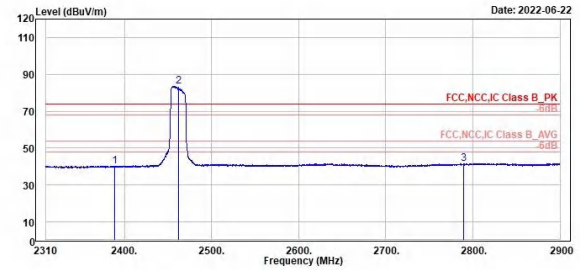


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1 2387.172	40.30	2.73	37.57	54.00	-13.70	265	266	Average	Horizontal		
2 * 2462.000	91.14	53.41	37.73	54.00	37.14	265	266	Average	Horizontal		
3 2483.460	42.85	5.05	37.80	54.00	-11.15	265	266	Average	Horizontal		

High Channel (Vertical) Average



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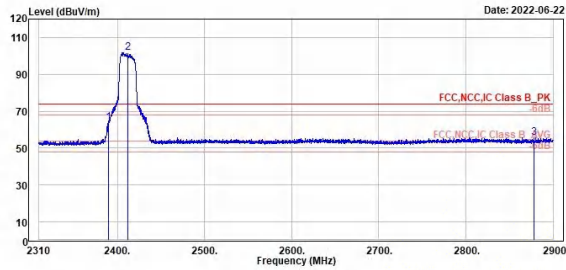
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MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1 2389.178	40.29	2.71	37.58	54.00	-13.71	329	226	Average	Vertical		
2 * 2462.000	83.71	45.98	37.73	54.00	29.71	329	226	Average	Vertical		
3 2789.080	41.59	3.40	38.19	54.00	-12.41	329	226	Average	Vertical		

802.11n HT20

Low Channel (Horizontal) Peak



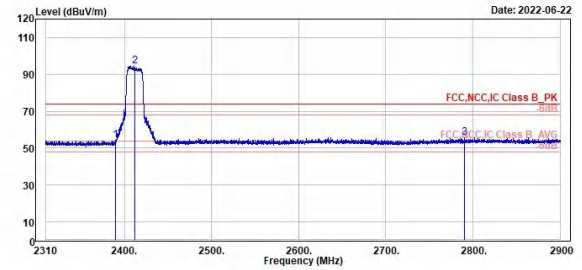
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.650	63.67	26.09	37.58	74.00	-10.33	276	96	Peak	Horizontal		
2 *	2412.000	101.86	64.21	37.65	74.00	27.86	276	96	Peak	Horizontal		
3	2878.170	55.83	17.52	38.31	74.00	-18.17	276	96	Peak	Horizontal		



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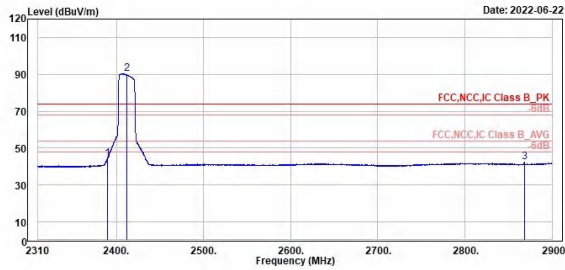
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.768	54.18	16.60	37.58	74.00	-19.82	252	172	Peak	Vertical		
2 *	2412.000	94.66	57.01	37.65	74.00	20.66	252	172	Peak	Vertical		
3	2790.496	55.80	17.61	38.19	74.00	-18.20	252	172	Peak	Vertical		

802.11n HT20

Low Channel (Horizontal) Average



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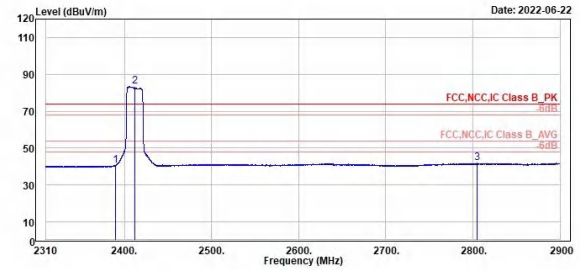


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MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1 2390.004	44.38	6.80	37.58	54.00	-9.62	276	96	Average	Horizontal		
2 * 2412.000	90.40	52.75	37.65	54.00	36.40	276	96	Average	Horizontal		
3 2868.022	42.24	3.99	38.25	54.00	-11.76	276	96	Average	Horizontal		

Low Channel (Vertical) Average



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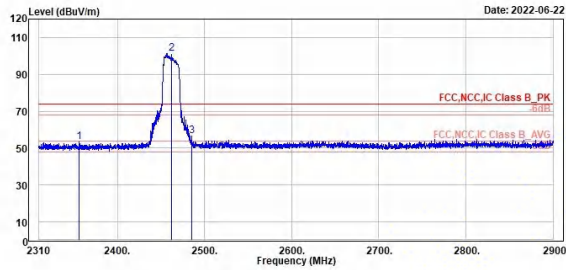
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MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1 2389.650	40.75	3.17	37.58	54.00	-13.25	252	172	Average	Vertical		
2 * 2412.000	83.35	45.70	37.65	54.00	29.35	252	172	Average	Vertical		
3 2805.010	41.91	3.71	38.20	54.00	-12.09	252	172	Average	Vertical		

802.11n HT20

High Channel (Horizontal) Peak



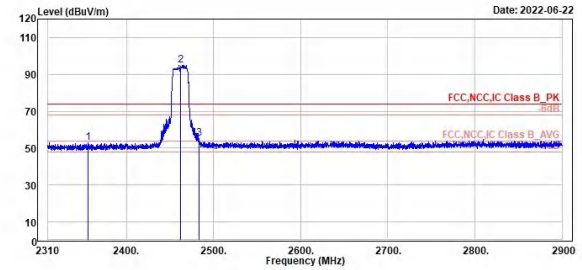
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2355.902	53.23	15.83	37.40	74.00	-20.77		329	83	Peak	Horizontal	
2 *	2462.000	101.08	63.35	37.73	74.00	27.08		329	83	Peak	Horizontal	
3	2485.112	56.75	18.95	37.80	74.00	-17.25		329	83	Peak	Horizontal	



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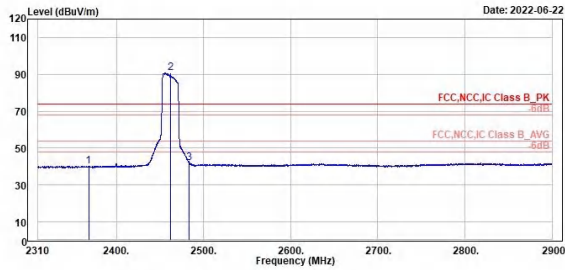
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2355.784	52.89	15.49	37.40	74.00	-21.11		277	179	Peak	Vertical	
2 *	2462.000	95.05	57.32	37.73	74.00	21.05		277	179	Peak	Vertical	
3	2483.578	55.32	17.52	37.80	74.00	-18.68		277	179	Peak	Vertical	

802.11n HT20

High Channel (Horizontal) Average



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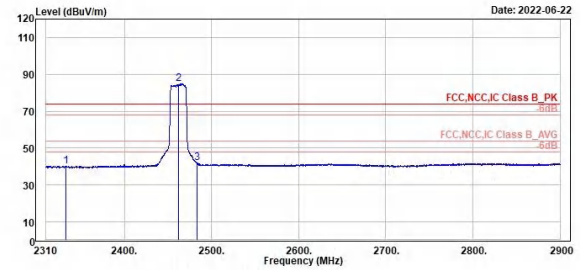


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	Limit	cm	deg			
1 2368.174	40.24	2.78	37.46	54.00	-13.76	329	83	Average	Horizontal		
2 * 2462.000	90.74	53.01	37.73	54.00	36.74	329	83	Average	Horizontal		
3 2483.460	42.20	4.40	37.80	54.00	-11.80	329	83	Average	Horizontal		

High Channel (Vertical) Average



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	Limit	cm	deg			
1 2332.538	40.27	2.95	37.32	54.00	-13.73	277	179	Average	Vertical		
2 * 2462.000	84.97	47.24	37.73	54.00	30.97	277	179	Average	Vertical		
3 2483.460	42.06	4.26	37.80	54.00	-11.94	277	179	Average	Vertical		

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

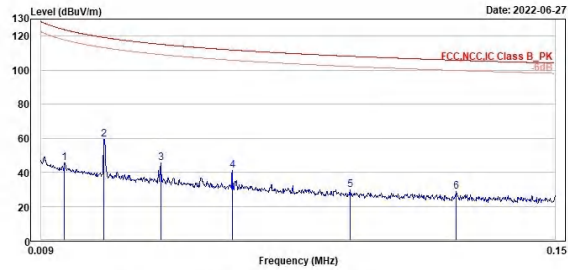
802.11n HT20

Middle Channel 9kHz~150kHz(Open)

Middle Channel 150kHz~30MHz(Open)



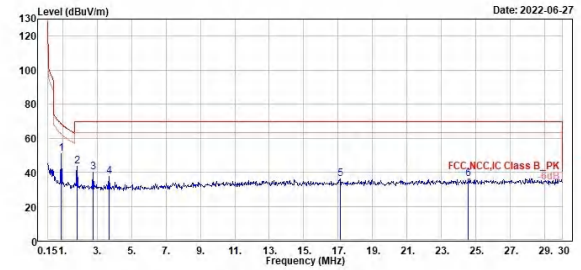
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	0.02	45.65	27.45	18.20	123.79	-78.14	100	308	QP	Open	
2	0.03	59.19	40.01	19.18	119.18	-59.99	100	183	QP	Open	
3	0.04	45.59	26.20	19.39	115.16	-69.57	100	17	QP	Open	
4	0.06	40.79	21.73	19.06	111.82	-71.03	100	243	QP	Open	
5	0.09	29.69	11.34	18.35	108.16	-78.47	100	284	QP	Open	
6	0.12	28.57	10.27	18.30	105.80	-77.23	100	356	QP	Open	



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	0.93	50.88	31.65	19.23	68.27	-17.39	100	247	QP	Open	
2	1.85	43.30	23.91	19.39	69.50	-26.20	100	247	QP	Open	
3	2.78	40.00	20.50	19.50	69.50	-29.50	100	247	QP	Open	
4	3.70	37.64	18.17	19.47	69.50	-31.86	100	247	QP	Open	
5	17.10	35.89	13.89	22.00	69.50	-33.61	100	90	QP	Open	
6	24.57	36.15	13.74	22.41	69.50	-33.35	100	64	QP	Open	

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

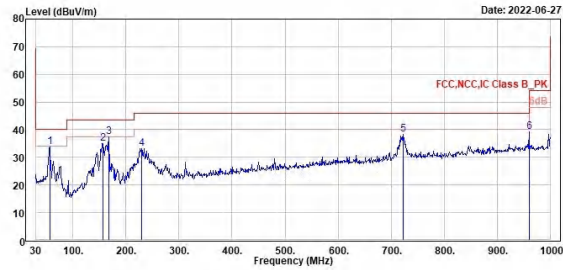
802.11n HT20

Middle Channel (Horizontal)

Middle Channel (Vertical)



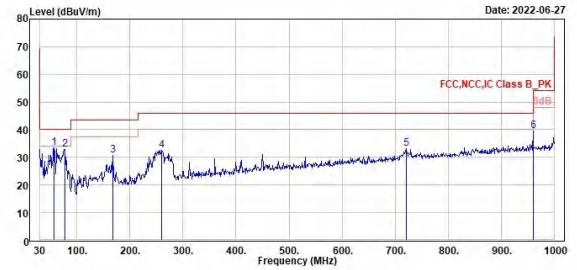
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	56.19	33.75	40.43	-6.68	40.00	-6.25	200	79	QP		Horizontal	
2	156.10	35.10	41.18	-6.08	43.50	-8.40	100	88	QP		Horizontal	
3	167.74	37.28	43.27	-5.99	43.50	-6.22	200	247	QP		Horizontal	
4	229.82	33.12	40.32	-7.20	46.00	-12.88	100	263	QP		Horizontal	
5	722.58	38.20	36.44	1.76	46.00	-7.80	100	200	QP		Horizontal	
6	960.23	39.24	33.52	5.72	54.00	-14.76	100	272	QP		Horizontal	



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	56.19	33.49	40.17	-6.68	40.00	-6.51	100	1	QP		Vertical	
2	76.56	32.88	42.66	-9.78	40.00	-7.12	100	360	QP		Vertical	
3	167.74	30.83	36.82	-5.99	43.50	-12.67	100	235	QP		Vertical	
4	259.89	32.68	39.00	-6.32	46.00	-13.32	100	256	QP		Vertical	
5	720.64	33.18	31.42	1.76	46.00	-12.82	200	174	QP		Vertical	
6	960.23	39.67	33.95	5.72	54.00	-14.33	100	158	QP		Vertical	

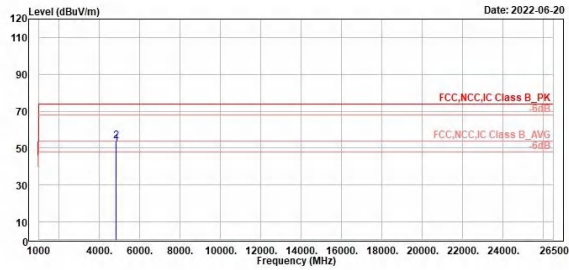
Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

802.11b

Low Channel (Horizontal)



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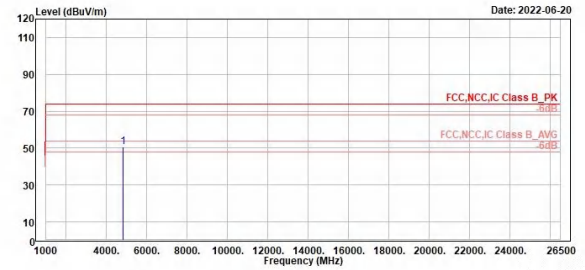


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1 4824.000	51.95	61.76	-9.81	54.00	-2.05	253	234	Average	Horizontal		
2 4824.000	53.80	63.61	-9.81	74.00	-20.20	253	234	Peak	Horizontal		

Low Channel (Vertical)



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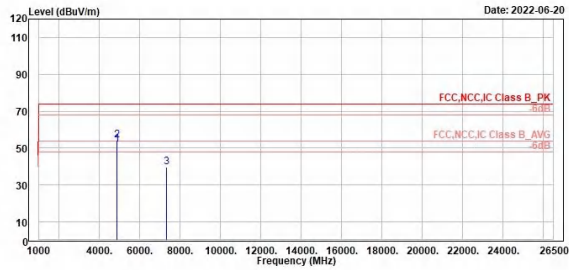
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1 4824.000	50.76	60.57	-9.81	74.00	-23.24	361	360	Peak	Vertical		

802.11b

Middle Channel (Horizontal)



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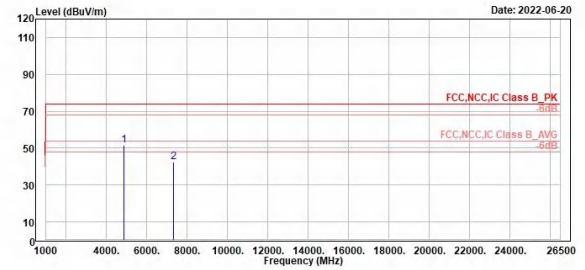


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1 4874.000	51.82	61.59	-9.77	54.00	-2.18		320	244	Average	Horizontal	
2 4874.000	54.12	63.89	-9.77	74.00	-19.88		320	244	Peak	Horizontal	
3 7311.000	39.67	47.18	-7.51	74.00	-34.33		200	21	Peak	Horizontal	

Middle Channel (Vertical)



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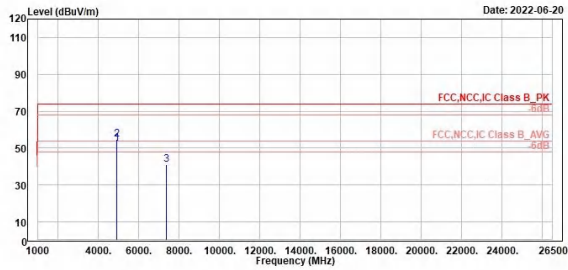
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MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1 4874.000	51.49	61.26	-9.77	74.00	-22.51		400	360	Peak	Vertical	
2 7311.000	42.41	49.92	-7.51	74.00	-31.59		254	2	Peak	Vertical	

802.11b

High Channel (Horizontal)



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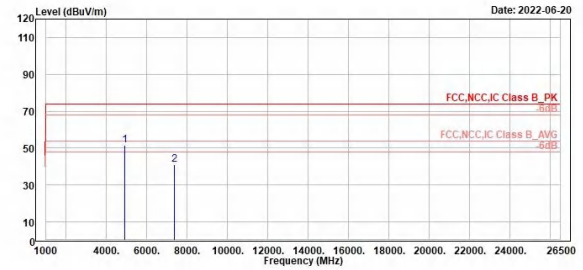


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1 4924.000	52.68	62.36	-9.68	54.00	-1.32	100	320	Average	Horizontal		
2 4924.000	54.55	64.23	-9.68	74.00	-19.45	100	320	Peak	Horizontal		
3 7386.000	41.01	40.44	-7.43	74.00	-32.99	200	322	Peak	Horizontal		

High Channel (Vertical)



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1 4924.000	51.73	61.41	-9.68	74.00	-22.27	390	360	Peak	Vertical		
2 7386.000	41.23	48.66	-7.43	74.00	-32.77	100	251	Peak	Vertical		

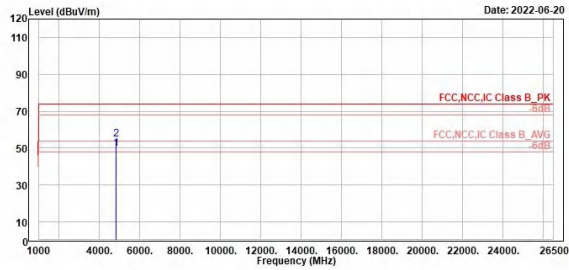
802.11g

Low Channel (Horizontal)

Low Channel (Vertical)



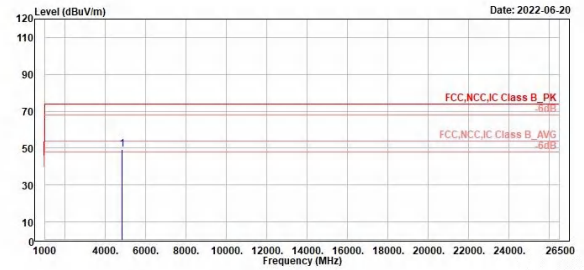
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1 4824.000	49.94	59.75	-9.81	54.00	-4.06		328	243	Average	Horizontal	
2 4824.000	54.97	64.78	-9.81	74.00	-19.03		328	243	Peak	Horizontal	



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1 4824.000	49.41	59.22	-9.81	74.00	-24.59		361	360	Peak	Vertical	

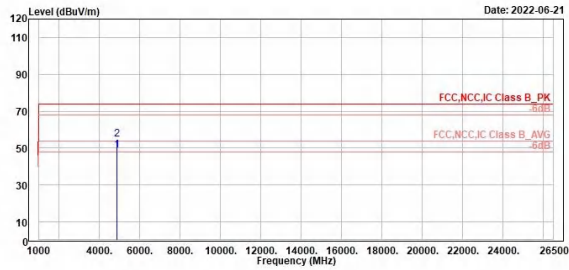
802.11g

Middle Channel (Horizontal)

Middle Channel (Vertical)



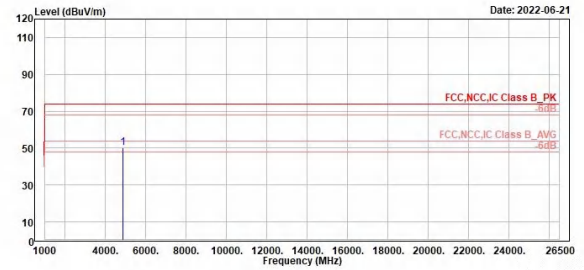
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1 4874.000	48.84	58.61	-9.77	54.00	-5.16	100	323	Average	Horizontal		
2 4874.000	54.82	64.59	-9.77	74.00	-19.18	100	323	Peak	Horizontal		



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1 4874.000	50.04	59.81	-9.77	74.00	-23.96	392	360	Peak	Vertical		

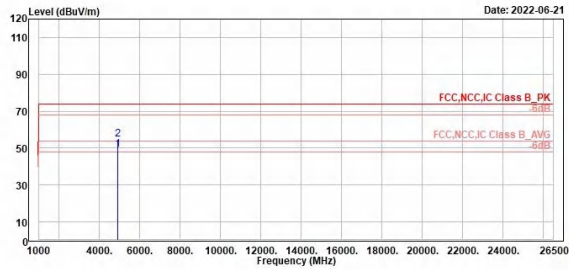
802.11g

High Channel (Horizontal)

High Channel (Vertical)



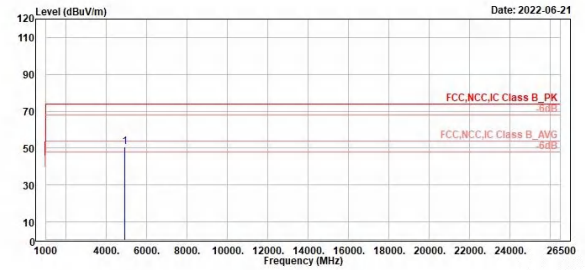
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1 4924.000	49.22	58.90	-9.68	54.00	-4.78	100	324	Average	Horizontal		
2 4924.000	54.96	64.64	-9.68	74.00	-19.04	100	324	Peak	Horizontal		



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1 4924.000	50.86	60.54	-9.68	74.00	-23.14	243	3	Peak	Vertical		

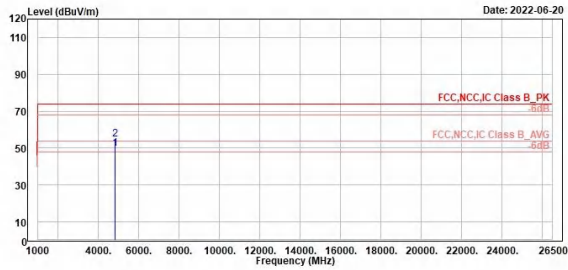
802.11n HT20

Low Channel (Horizontal)

Low Channel (Vertical)



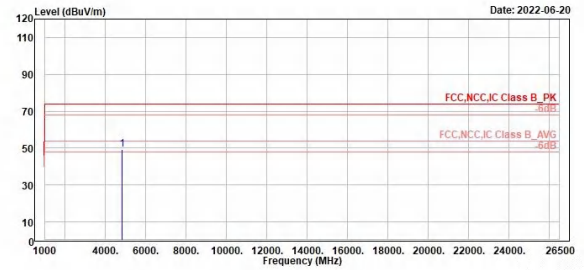
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1 4824.000	49.66	59.47	-9.81	54.00	-4.34	320	232	Average	Horizontal		
2 4824.000	54.65	64.46	-9.81	74.00	-19.35	320	232	Peak	Horizontal		



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1 4824.000	49.31	59.12	-9.81	74.00	-24.69	359	360	Peak	Vertical		

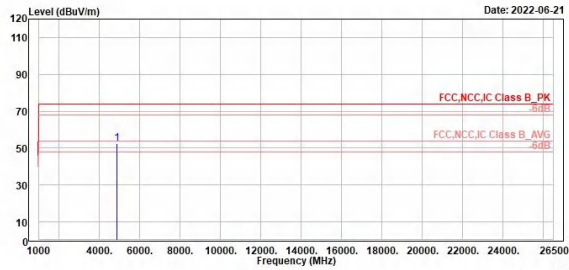
802.11n HT20

Middle Channel (Horizontal)

Middle Channel (Vertical)



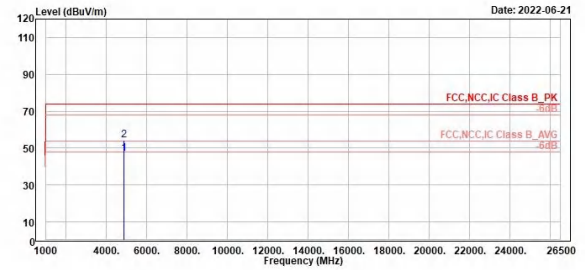
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1 4874.000	52.57	62.34	-9.77	74.00	-21.43		100	325	Peak	Horizontal	



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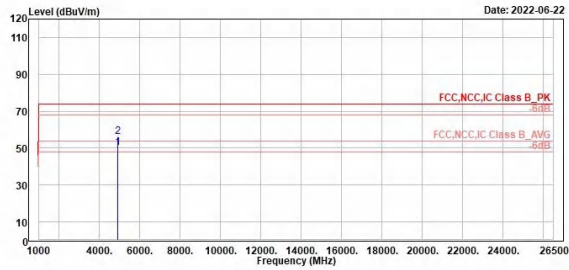
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1 4874.000	46.81	56.58	-9.77	54.00	-7.19		100	179	Average	Vertical	
2 4874.000	54.12	63.89	-9.77	74.00	-19.88		100	179	Peak	Vertical	

802.11n HT20

High Channel (Horizontal)



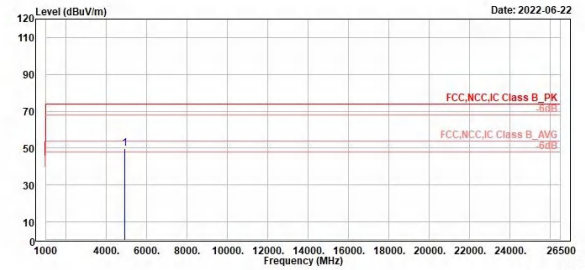
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1 4924.000	50.30	59.98	-9.68	54.00	-3.70	100	323	Average	Horizontal		
2 4924.000	55.91	65.59	-9.68	74.00	-18.09	100	323	Peak	Horizontal		



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1 4924.000	49.74	59.42	-9.68	74.00	-24.26	306	360	Peak	Vertical		

Mains Conducted Emission, 150kHz ~ 30MHz

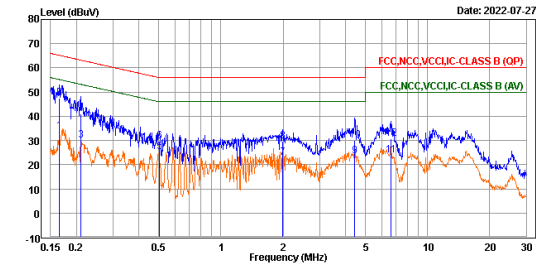
Worst Band

(Line)

(Neutral)



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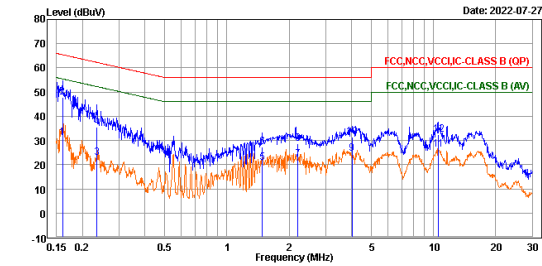


Trace: 1

	Freq	Level	Read	Factor	Limit	Over			
	MHz	dBuV	dBuV	dB	dBuV	dB	Remark	Pol/Phase	Note
1	0.17	33.96	24.35	9.61	55.17	-21.21	Average	line1	
2	0.17	47.43	37.82	9.61	65.17	-17.74	QP	line1	
3	0.21	29.89	20.28	9.61	53.18	-23.29	Average	line1	
4	0.21	40.92	31.31	9.61	63.18	-22.26	QP	line1	
5	0.50	25.25	15.63	9.62	46.00	-20.75	Average	line1	
6	0.50	29.69	20.07	9.62	56.00	-26.31	QP	line1	
7	1.98	22.88	13.23	9.65	46.00	-23.12	Average	line1	
8	1.98	29.54	19.89	9.65	56.00	-26.46	QP	line1	
9	4.45	23.56	13.88	9.68	46.00	-22.44	Average	line1	
10	4.45	30.09	20.41	9.68	56.00	-25.91	QP	line1	
11	6.63	23.96	14.25	9.71	50.00	-26.04	Average	line1	
12	6.63	30.57	20.86	9.71	60.00	-29.43	QP	line1	



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Trace: 1

	Freq	Level	Read	Factor	Limit	Over			
	MHz	dBuV	dBuV	dB	dBuV	dB	Remark	Pol/Phase	Note
1	0.16	30.97	21.38	9.59	55.46	-24.49	Average	neutral	
2	0.16	47.78	38.19	9.59	65.46	-17.68	QP	neutral	
3	0.23	22.72	13.13	9.59	52.27	-29.55	Average	neutral	
4	0.23	35.61	26.02	9.59	62.27	-26.66	QP	neutral	
5	1.48	20.63	11.01	9.62	46.00	-25.37	Average	neutral	
6	1.48	27.14	17.52	9.62	56.00	-28.86	QP	neutral	
7	2.20	22.22	12.59	9.63	46.00	-23.78	Average	neutral	
8	2.20	28.70	19.07	9.63	56.00	-27.30	QP	neutral	
9	4.02	24.70	15.04	9.66	46.00	-21.30	Average	neutral	
10	4.02	31.48	21.82	9.66	56.00	-24.52	QP	neutral	
11	10.53	26.31	16.57	9.74	50.00	-23.69	Average	neutral	
12	10.53	32.42	22.68	9.74	60.00	-27.58	QP	neutral	