



Prüfbericht-Nr.: <i>Test report no.:</i>	CN22UGQZ (P15C-WiFi) 001	Auftrags-Nr.: <i>Order no.:</i>	238547232	Seite 1 von 21 Page 1 of 21
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2022-07-28	
Auftraggeber: <i>Client:</i>	Sony Group Corporation 1-7-1 Konan Minato-ku Tokyo Japan			
Prüfgegenstand: <i>Test item:</i>	Wireless Lan Module			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	WCBN3515A			
Auftrags-Inhalt: <i>Order content:</i>	FCC Part 15C Test report (WiFi 2.4GHz)			
Prüfgrundlage: <i>Test specification:</i>	FCC 47CFR Part 15: Subpart C Section 15.247			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2022-08-26			
Prüfmuster-Nr.: <i>Test sample no.:</i>	A003325806-002			
Prüfzeitraum: <i>Testing period:</i>	2022-09-08 - 2022-10-12			
Ort der Prüfung: <i>Place of testinNg:</i>	EMC/RF Taipei Testing Site			
Prüflaboratorium: <i>Testing laboratory:</i>	Taipei Testing Laboratories			
Prüfergebnis*: <i>Test result*:</i>	Pass			
überprüft von: <i>compiled by:</i>		genehmigt von: <i>authorized by:</i>		
Datum: <i>Date:</i>	2022-10-14	Ausstellungsdatum: <i>Issue date:</i>	2022-10-14	
Stellung / Position:	Jack Wang Project Manager	Stellung / Position:	Ryan Chen Senior Project Manager	
Sonstiges / Other:	Accommodate the Pre-certificated Module (FCC ID: AK8100224111) into the Host Product Name: Sony Drone controller (Model: REMOTE-TEST). Only the conducted power and RSE tests were evaluated.			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend N/A = nicht anwendbar	4 = ausreichend N/T = nicht getestet
* Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory N/A = not applicable	4 = sufficient N/T = not tested
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. <i>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.</i>				

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
5.1.3	15.247(d) & 15.205 & 15.209	Radiated Spurious Emissions and Band Edges	Pass

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

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APPENDIX EP - PHOTOGRAPHS OF EUT

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HISTORY OF THIS TEST REPORT

Report No.	Description	Date Issued
CN22UGQZ (P15C-WiFi) 001	Original Release	2022-10-14

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

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
KDB 662911 D01 Multiple Transmitter Output v02r01

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)	± 1.32 dB
Radiated Emission (200 MHz ~ 1 GHz)	± 1.31 dB
Radiated Emission (1 GHz ~ 18 GHz)	± 1.53 dB
Radiated Emission (18 GHz ~ 40 GHz)	± 2.50 dB
Mains Conducted Emission	± 1.65 dB

3. General Product Information

3.1 Product Function and Intended Use

The EUT is a Wireless Lan Module. 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	Wireless Lan Module
Type Identification	WCBN3515A
FCC ID	AK8100224111

Technical Specification of EUT

Item	EUT information
Operating Frequency	2412 MHz ~ 2462 MHz
Channel Number	802.11b/g/n HT20: 11
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	12 Vdc
Modulation	DSSS (DBPSK, DQPSK, CCK) OFDM (BPSK, QPSK, 16QAM, 64QAM)
Antenna Information	Refer to 5.1.1
Accessory Device	Refer to 4.4

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	
	Chain 0	Chain 1		Chain 0	Chain 1		Chain 0	Chain 1
1	18	17.00	1	19	18.00	1	19	18.00
6	17	16.00	6	18	17.00	6	18	17.00
11	16.5	15.50	11	19	18.00	11	19	19.00

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	Adb
---------------	-----

The samples were used as follows:
 A003325806-002

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

EUT Configure Mode	Applicable To			Description
	Output Power	Radiated Spurious Emissions above 1 GHz	Radiated Spurious Emissions below 1 GHz	
-	√	√	√	-

Note:

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

Output Power

- 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)
Patch Antenna	802.11n HT20	1 to 11	6	MCS0
Sector Antenna	802.11n HT20	1 to 11	11	MCS0

Test Condition

Test Item	Ambient Temperature	Relative Humidity	Tested by
Conducted Measurement	22 °C	67 %	Andy Chen
Radiated Spurious Emissions above 1 GHz	22.2-24.8 °C	50-55 %	Roger Liao
Radiated Spurious Emissions below 1 GHz	22.2-24.8 °C	50-55 %	Roger Liao

4.4 Special Accessories and Auxiliary Equipment

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

Accessory of EUT

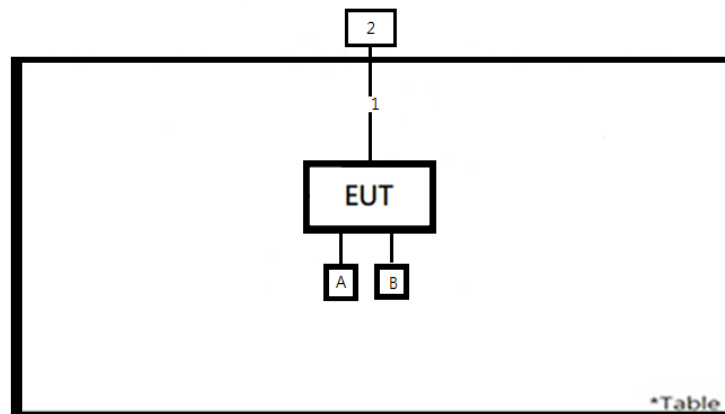
None

Support Unit

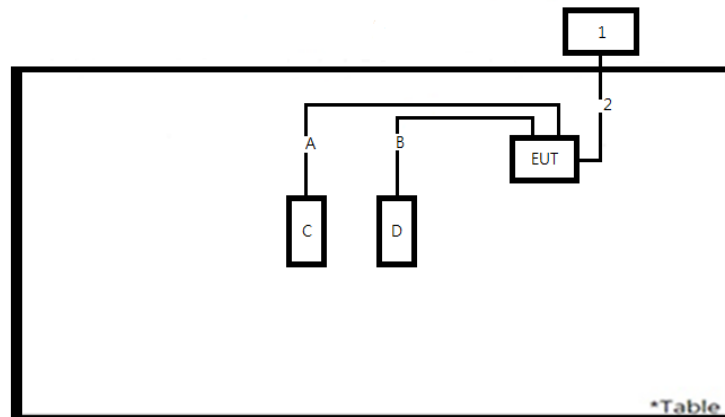
Support Unit								
No	Description	Brand	Model	S/N	Shielded	Ferrite Core (Qty)	Length (cm)	Remark
A	Antenna	TUV-JP	APA-M25	N/A	-	-	-	Patch Antenna
B	Antenna	TUV-JP	APA-M25	N/A	-	-	-	
1	Notebook	Lenovo	81BL	MP1DCD6Y	-	-	-	
2	USB to USB Cable	TUV	TUV-001	N/A	NO	NO	300	Sector Antenna
A	Antenna Cable	TUV-JP	TUV-JP-1	N/A	YES	NO	200	
B	Antenna Cable	TUV-JP	TUV-JP-2	N/A	YES	NO	200	
C	Antenna	TUV-JP	APA-M25	N/A	-	-	-	
D	Antenna	TUV-JP	APA-M25	N/A	-	-	-	
1	Notebook	Lenovo	81BL	MP1DCD6Y	-	-	-	
2	USB to USB Cable	TUV	TUV-001	N/A	NO	NO	300	

4.5 Test Setup Diagram

<Radiated Spurious Emissions mode>
Patch Antenna



Sector Antenna



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's antenna specifications are described as below. The antenna is used with no possibility of replacement with a non-approved antenna by the end-user. Therefore, the EUT is considered to comply with this provision.

ANT	Gain (dBi)
Patch Antenna	7.6
Sector Antenna	-13.7

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	2022/9/8	2022/10/12
Power Sensor	Anritsu	MA2411B	1725269	2022/3/15	2023/3/14	2022/9/8	2022/10/12

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

Mode	Channel	Frequency (MHz)	Chain 0		Chain 1		Chain 0+1	
			Peak Power (dBm)	Average Power (dBm)	Peak Power (dBm)	Average Power (dBm)	Peak Power (dBm)	Average Power (dBm)
802.11b	1	2412	18.78	16.41	18.69	16.23	21.75	19.33
	6	2437	19.33	16.77	18.97	16.58	22.16	19.69
	11	2462	19.22	15.50	18.97	14.88	22.11	18.21
802.11g	1	2412	22.61	17.41	19.98	17.26	24.50	20.35
	6	2437	22.95	17.44	19.83	17.44	24.67	20.45
	11	2462	22.93	17.78	19.93	17.25	24.69	20.53
802.11n HT20	1	2412	22.91	17.17	22.28	17.03	25.62	20.11
	6	2437	22.96	17.47	23.35	17.41	26.17	20.45
	11	2462	23.35	17.43	23.46	17.71	26.42	20.58

5.1.3 Radiated Spurious Emissions and Band Edges

Limit

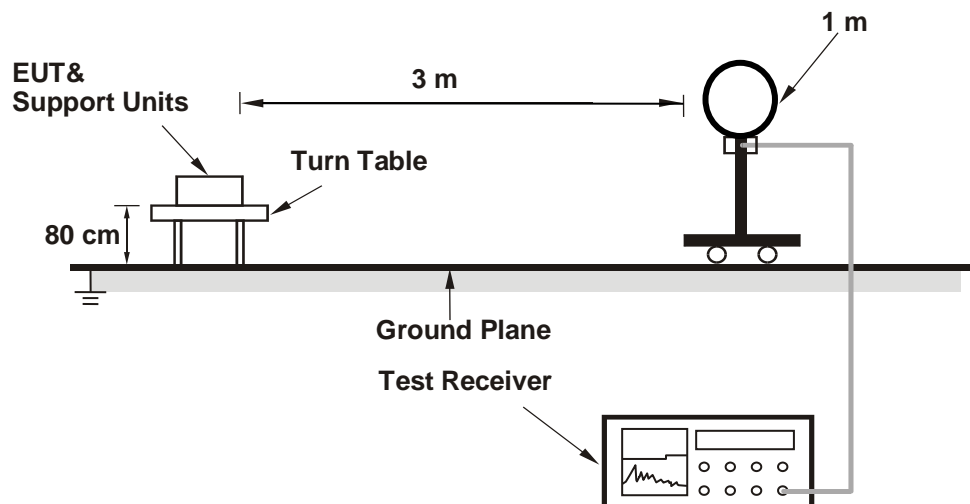
Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must comply with the radiated emission limits specified in §15.209(a).

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).

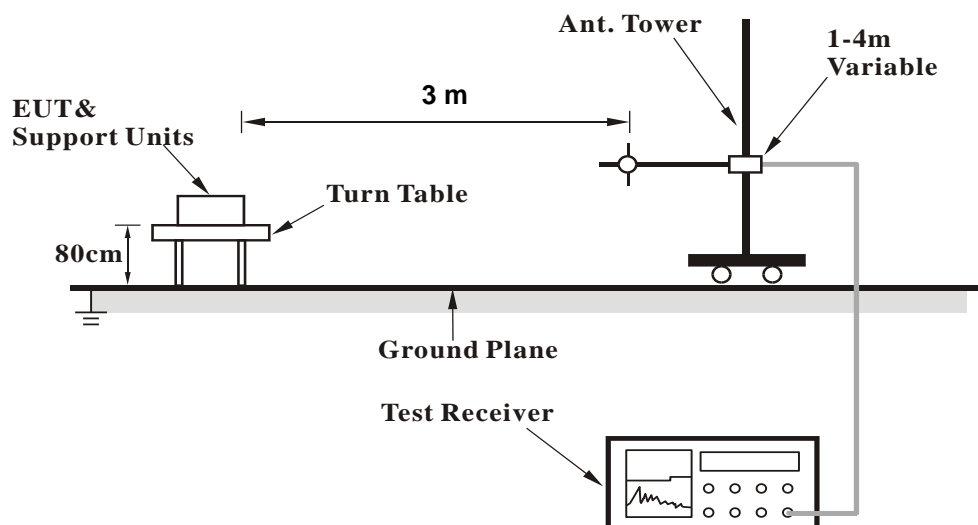
Kind of Test Site 3m Semi-Anechoic Chamber

Test Setup

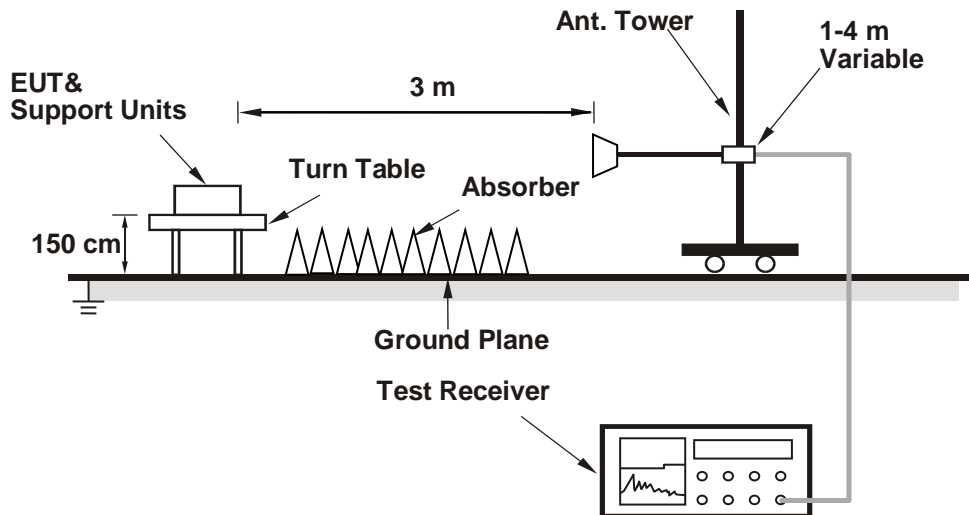
<Radiated Emissions below 30 MHz>



<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

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Above 1 GHz					
Signal Analyzer	R&S	FSV40	101509	2022/4/22	2023/4/21
Horn Antenna	ETS-Lindgren	3117	00218929	2021/11/25	2022/11/24
HF-AMP + AC source	EMCI	EMC051845SE	980635	2022/1/20	2023/1/19
HF-AMP + AC source	EMCI	EMC184045SE	980656	2022/1/20	2023/1/19
Horn Antenna	SCHWARZBECK	BBHA 9170	00887	2022/3/29	2023/3/28
Test Software	Audix E3	15914a_20191106 tuv	PK-001087	N/A	N/A
30 MHz ~ 1 GHz					
Receiver	R&S	ESR7	102109	2022/2/25	2023/2/24
Bilog Antenna	SCHWARZBECK	VULB-9168	00949	2022/5/29	2023/5/28
LF-AMP	Agilent	8447D	2727A05146	2022/2/16	2023/2/15
Test Software	Audix E3	15914a_20191106 tuv	PK-001087	N/A	N/A
Below 30 MHz					
Receiver	R&S	ESR7	102109	2022/2/25	2023/2/24
Microwave Cable	SUCOFLEX 104EA	800056/4EA	804680/4	2022/3/22	2023/3/21
Loop Antenna	SCHWARZBECK	FMZB 1519B	00215	2021/12/8	2022/12/7
Test Software	Audix E3	15914a_20191106 tuv	PK-001087	N/A	N/A

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 \geq 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.

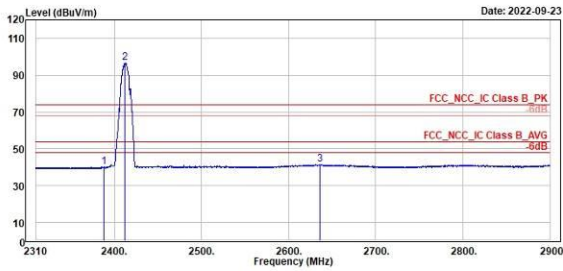
802.11b

Low Channel (Horizontal) Average

Low Channel (Vertical) Average



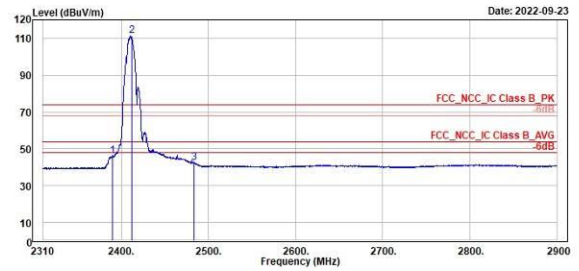
TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenhiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dB/m	dBuV/m	dB	cm	deg			
1	2388.23	48.82	2.44	37.58	54.00	-13.98	239	315	Average	Horizontal	
2 *	2412.00	96.91	59.28	37.63	54.00	42.91	239	315	Average	Horizontal	
3	2636.27	41.35	3.16	38.19	54.00	-12.65	239	315	Average	Horizontal	



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Tel: +886-2172-1000 Fax: +886-2172-1322



Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dB/m	dBuV/m	dB	cm	deg			
1	2390.00	46.28	8.98	37.30	54.00	-7.72	222	345	Average	Vertical	
2 *	2412.00	111.16	73.61	37.35	54.00	57.16	222	345	Average	Vertical	
3	2483.70	42.44	4.73	37.71	54.00	-11.56	222	345	Average	Vertical	

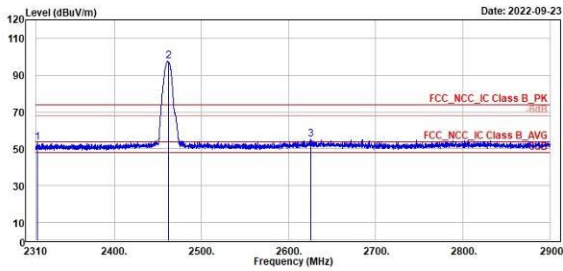
802.11b

High Channel (Horizontal) Peak

High Channel (Vertical) Peak



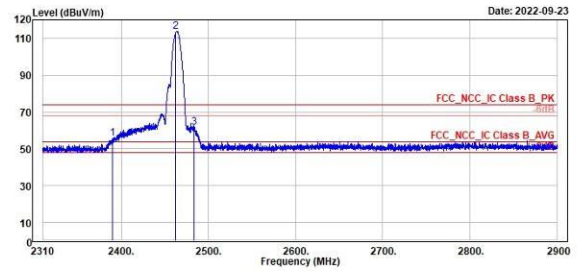
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No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2312.12	53.53	16.20	37.33	74.00	-20.47	150	318	Peak	Horizontal	
2 *	2462.00	97.79	60.15	37.64	74.00	23.79	150	318	Peak	Horizontal	
3	2625.65	55.42	17.24	38.18	74.00	-18.58	150	318	Peak	Horizontal	



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No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2309.53	55.72	18.42	37.30	74.00	-18.28	237	344	Peak	Vertical	
2 *	2462.00	113.77	76.21	37.56	74.00	39.77	237	344	Peak	Vertical	
3	2483.70	61.62	23.91	37.71	74.00	-12.38	237	344	Peak	Vertical	

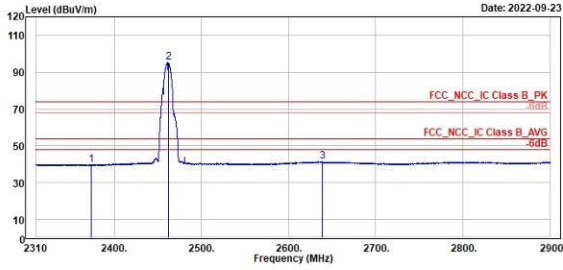
802.11b

High Channel (Horizontal) Average

High Channel (Vertical) Average



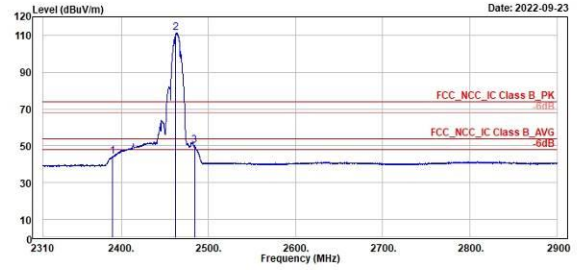
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Freq	Level	Read	Level	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2373.48	39.89	2.36	37.53	54.00	-14.11	150	318 Average	Horizontal	
2 *	2462.00	95.19	57.55	37.64	54.00	41.19	150	318 Average	Horizontal	
3	2639.10	41.45	3.26	38.19	54.00	-12.55	150	318 Average	Horizontal	



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Freq	Level	Read	Level	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2390.00	44.21	6.91	37.30	54.00	-9.79	237	344 Average	Vertical	
2 *	2462.00	111.33	73.77	37.56	54.00	57.33	237	344 Average	Vertical	
3 !	2483.93	50.40	12.69	37.71	54.00	-3.60	237	344 Average	Vertical	

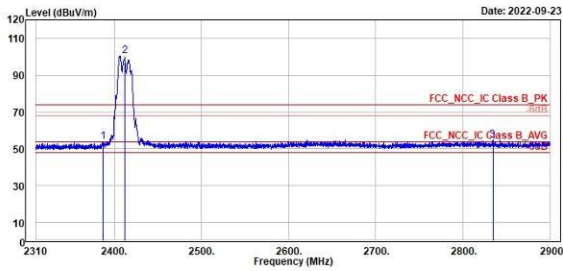
802.11g

Low Channel (Horizontal) Peak

Low Channel (Vertical) Peak



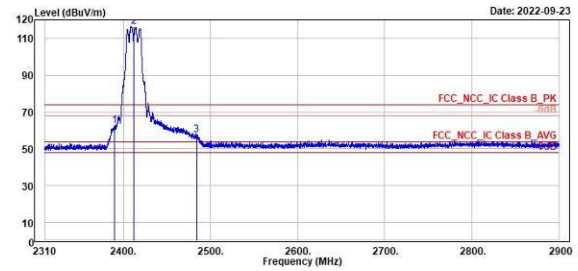
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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2386.58	53.62	16.85	37.57	74.00	-20.38	217	313	Peak	Horizontal	
2 *	2412.00	100.31	62.68	37.63	74.00	26.31	217	313	Peak	Horizontal	
3	2834.16	54.84	16.79	38.05	74.00	-19.16	217	313	Peak	Horizontal	



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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2389.77	62.55	25.25	37.30	74.00	-11.45	247	360	Peak	Vertical	
2 *	2412.00	116.27	78.92	37.35	74.00	42.27	247	360	Peak	Vertical	
3	2483.93	57.47	19.76	37.71	74.00	-16.53	247	360	Peak	Vertical	

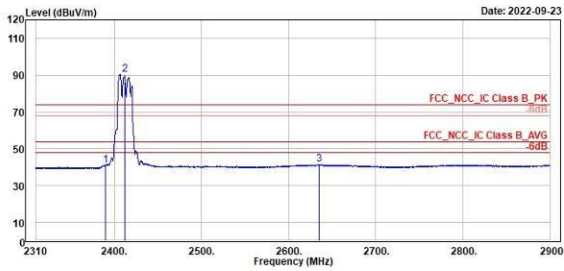
802.11g

Low Channel (Horizontal) Average

Low Channel (Vertical) Average



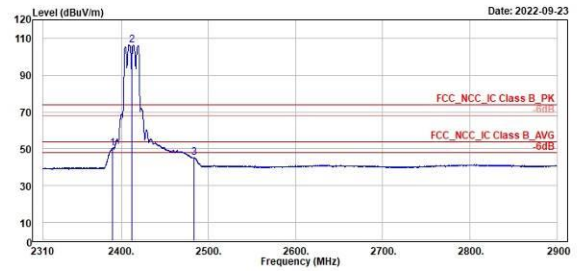
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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2390.00	41.13	3.55	37.58	54.00	-12.87	217	313 Average	Horizontal	
2 *	2412.00	90.45	52.82	37.63	54.00	36.45	217	313 Average	Horizontal	
3	2635.09	41.34	3.15	38.19	54.00	-12.66	217	313 Average	Horizontal	



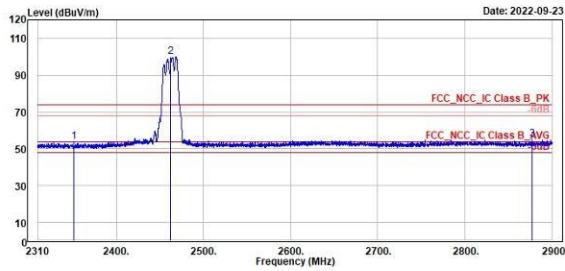
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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2309.09	50.28	12.98	37.30	54.00	-3.72	247	360 Average	Vertical	
2 *	2412.00	106.49	69.14	37.35	54.00	52.49	247	360 Average	Vertical	
3	2483.70	45.23	7.52	37.71	54.00	-8.77	247	360 Average	Vertical	

802.11g
High Channel (Horizontal) Peak
High Channel (Vertical) Peak

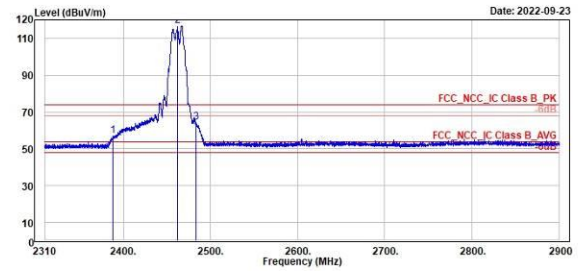

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 Tel: +886-2172-1000 Fax: +886-2172-1322



Peak	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	2351.18	53.67	16.21	37.46	74.00	-20.33	184	318	Peak	Horizontal		
2 *	2462.00	99.83	62.19	37.64	74.00	25.83	184	318	Peak	Horizontal		
3	2877.46	55.04	16.86	38.18	74.00	-18.96	184	318	Peak	Horizontal		



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Peak	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	57.05	551.65	494.60	74.00	-16.95	175	360	Peak	Vertical		
2 *	2462.00	116.72	611.23	494.51	74.00	42.72	175	360	Peak	Vertical		
3	2483.46	64.33	558.82	494.49	74.00	-9.67	175	360	Peak	Vertical		

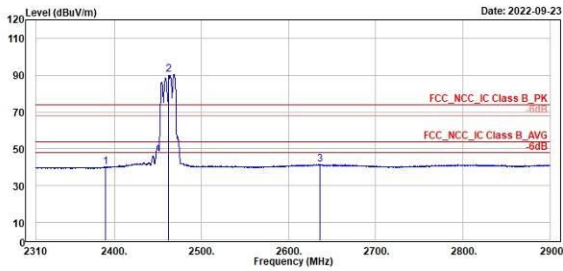
802.11g

High Channel (Horizontal) Average

High Channel (Vertical) Average



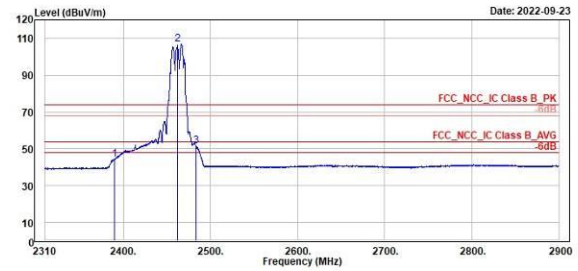
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.77	40.12	2.54	37.58	54.00	-13.88	184	318	Average	Horizontal	
2 *	2462.00	90.35	52.71	37.64	54.00	36.35	184	318	Average	Horizontal	
3	2635.56	41.46	3.27	38.19	54.00	-12.54	184	318	Average	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	44.30	538.98-494.60	54.00	-9.62	175	360	Average	Vertical		
2 *	2462.00	106.74	601.25-494.51	54.00	52.74	175	360	Average	Vertical		
3 !	2483.58	51.47	545.96-494.49	54.00	-2.53	175	360	Average	Vertical		

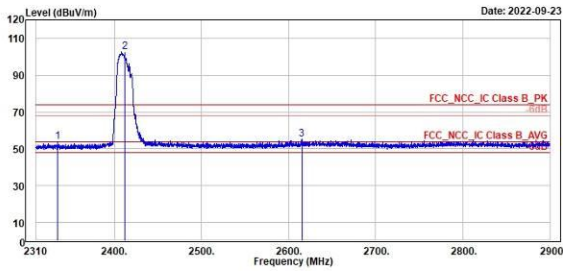
802.11n HT20

Low Channel (Horizontal) Peak

Low Channel (Vertical) Peak



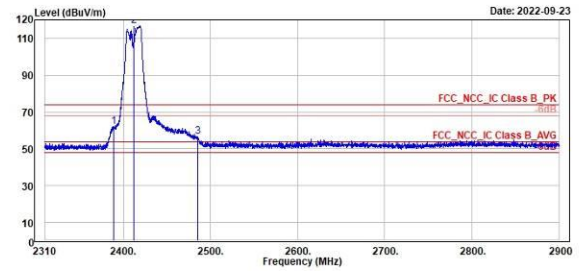
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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2334.54	54.00	16.59	37.41	74.00	-20.00	178	316 Peak	Horizontal	
2 *	2412.00	102.69	65.06	37.63	74.00	28.69	178	316 Peak	Horizontal	
3	2615.15	55.03	16.87	38.16	74.00	-18.97	178	316 Peak	Horizontal	



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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2388.82	61.95	24.65	37.30	74.00	-12.05	251	355 Peak	Vertical	
2 *	2412.00	116.71	79.36	37.35	74.00	42.71	251	355 Peak	Vertical	
3	2485.11	56.66	18.94	37.72	74.00	-17.34	251	355 Peak	Vertical	

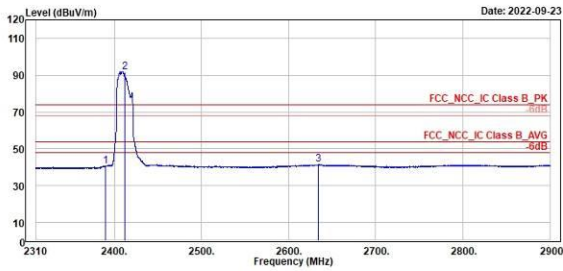
802.11n HT20

Low Channel (Horizontal) Average

Low Channel (Vertical) Average



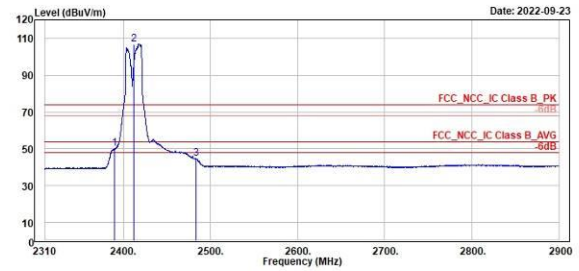
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	PoI/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2399.00	40.72	3.14	37.58	54.00	-13.28	178	316	Average	Horizontal	
2 *	2412.00	91.91	54.28	37.63	54.00	37.91	178	316	Average	Horizontal	
3	2633.67	41.42	3.23	38.19	54.00	-12.58	178	316	Average	Horizontal	



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	PoI/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2309.09	49.97	12.67	37.30	54.00	-4.03	251	355	Average	Vertical	
2 *	2412.00	106.96	69.63	37.33	54.00	52.96	251	355	Average	Vertical	
3	2483.46	44.58	6.87	37.71	54.00	-9.42	251	355	Average	Vertical	

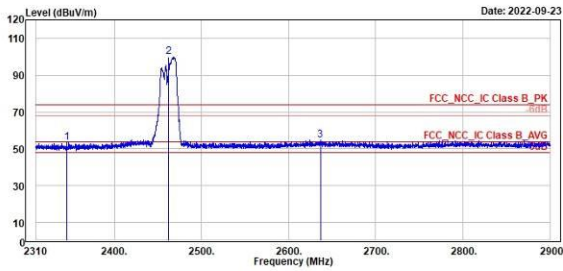
802.11n HT20

High Channel (Horizontal) Peak

High Channel (Vertical) Peak



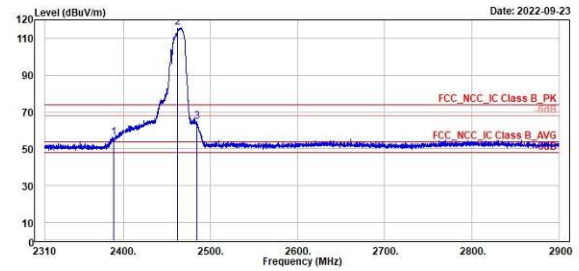
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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Level Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2345.28	53.33	15.89	37.44	74.00	-20.67	183	318	Peak	Horizontal	
2 *	2462.00	99.90	62.26	37.64	74.00	25.90	183	318	Peak	Horizontal	
3	2636.39	54.81	16.62	38.19	74.00	-19.19	183	318	Peak	Horizontal	



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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Level Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2388.82	56.22	18.92	37.30	74.00	-17.78	201	13	Peak	Vertical	
2 *	2462.00	115.80	78.24	37.56	74.00	41.80	201	13	Peak	Vertical	
3	2484.05	64.89	27.18	37.71	74.00	-9.11	201	13	Peak	Vertical	

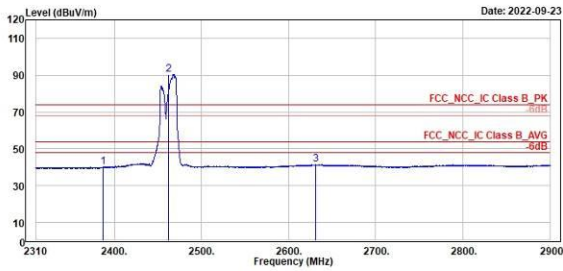
802.11n HT20

High Channel (Horizontal) Average

High Channel (Vertical) Average



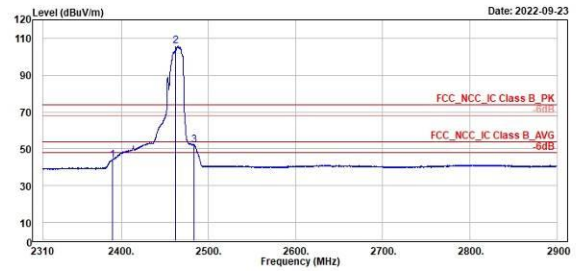
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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2387.05	40.12	2.55	37.57	54.00	-13.88	183	318 Average	Horizontal	
2 *	2462.00	90.16	52.52	37.64	54.00	36.16	183	318 Average	Horizontal	
3	2631.20	41.47	3.29	38.18	54.00	-12.53	183	318 Average	Horizontal	



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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2389.77	44.01	6.71	37.30	54.00	-9.99	201	13 Average	Vertical	
2 *	2462.00	105.80	68.24	37.56	54.00	51.80	201	13 Average	Vertical	
3 !	2483.46	52.20	14.49	37.71	54.00	-1.80	201	13 Average	Vertical	

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

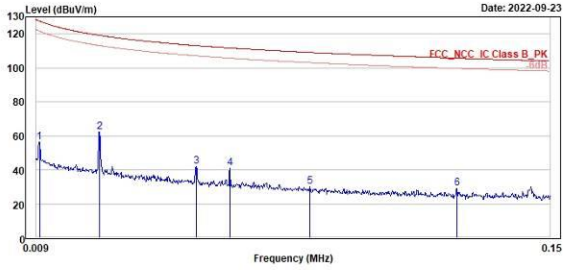
802.11n HT20

Middle Channel 9kHz~150kHz(Open)

Middle Channel 150kHz~30MHz(Open)



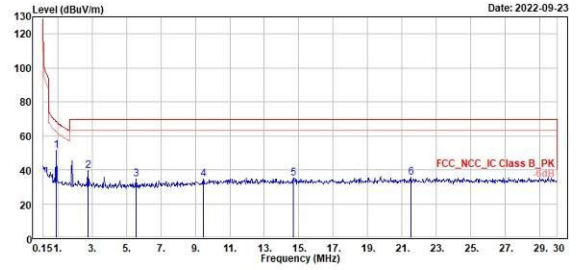
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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Level Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	PoI/Phase	Note
1	0.01	56.50	38.79	17.71	127.60	-71.10	100	251	QP	Open	
2	0.03	62.52	43.33	19.19	119.13	-56.61	100	239	QP	Open	
3	0.05	41.88	22.64	19.24	113.11	-71.23	100	285	QP	Open	
4	0.06	40.82	21.78	19.04	111.72	-70.90	100	83	QP	Open	
5	0.08	30.24	11.68	18.56	109.09	-78.85	100	141	QP	Open	
6	0.12	28.93	10.62	18.31	105.70	-76.77	100	66	QP	Open	



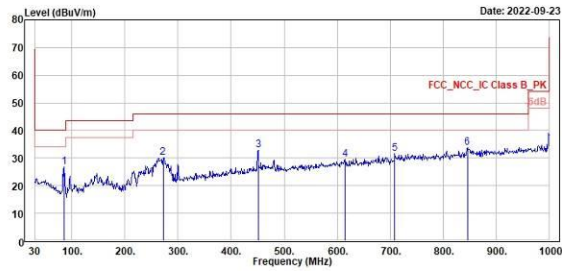
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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Level Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	PoI/Phase	Note
1	0.93	51.57	32.36	19.21	68.27	-16.70	100	149	QP	Open	
2	2.78	39.70	20.23	19.47	69.50	-29.80	100	149	QP	Open	
3	5.55	34.59	15.04	19.55	69.50	-34.91	100	124	QP	Open	
4	9.46	34.53	13.36	21.17	69.50	-34.97	100	63	QP	Open	
5	14.69	34.98	13.27	21.71	69.50	-34.52	100	118	QP	Open	
6	21.52	35.50	13.38	22.12	69.50	-34.00	100	140	QP	Open	

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz
802.11n HT20
Middle Channel (Horizontal)
Middle Channel (Vertical)

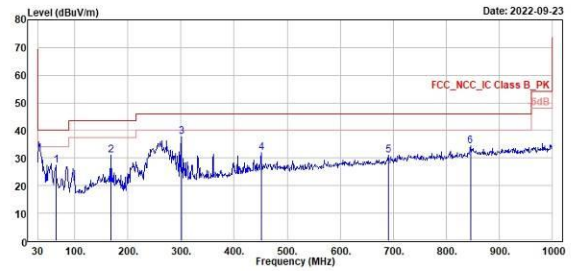

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 Tel: +886-2172-1000 Fax: +886-2172-1322



Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	85.29	26.65	38.29	-11.64	48.00	-13.35	480	300 QP	Horizontal
2	271.53	30.28	35.88	-5.68	46.00	-15.80	200	360 QP	Horizontal
3	450.98	32.99	34.99	-2.00	46.00	-13.01	200	360 QP	Horizontal
4	614.91	29.41	28.88	0.53	46.00	-16.59	200	315 QP	Horizontal
5	709.00	31.70	29.88	1.82	46.00	-14.30	300	245 QP	Horizontal
6	845.77	33.91	29.88	4.03	46.00	-12.09	200	201 QP	Horizontal



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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	63.95	27.31	34.95	-7.64	48.00	-12.69	100	233 QP	Vertical
2	167.74	30.98	36.87	-5.89	43.50	-12.52	100	26 QP	Vertical
3	300.63	37.64	42.25	-4.61	46.00	-8.36	100	60 QP	Vertical
4	450.98	31.85	33.85	-2.00	46.00	-14.15	100	345 QP	Vertical
5	690.57	31.03	29.34	1.69	46.00	-14.97	200	260 QP	Vertical
6	845.77	34.50	30.47	4.03	46.00	-11.50	100	23 QP	Vertical

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

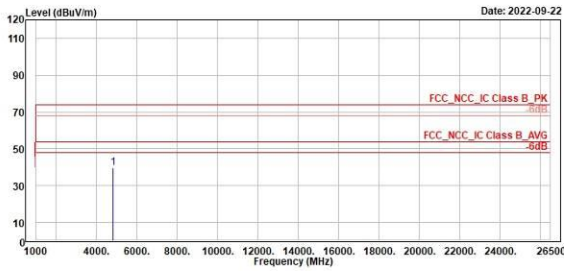
802.11b

Low Channel (Horizontal)

Low Channel (Vertical)



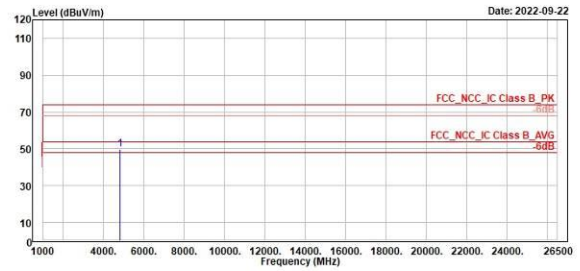
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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	PoI/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4824.00	39.68	48.69	-9.01	74.00	-34.32	300	135 Peak	Horizontal	



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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	PoI/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4824.00	49.57	58.93	-9.36	74.00	-24.43	200	318 Peak	Vertical	

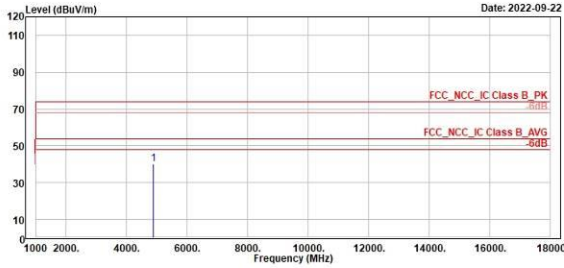
802.11b

Middle Channel (Horizontal)

Middle Channel (Vertical)



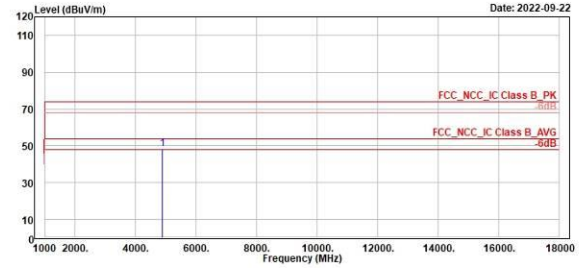
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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	PoI/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4874.00	40.25	49.24	-8.99	74.00	-33.75	100	116 Peak	Horizontal	



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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	PoI/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4874.00	48.53	57.87	-9.34	74.00	-25.47	200	348 Peak	Vertical	

802.11b

High Channel (Horizontal)

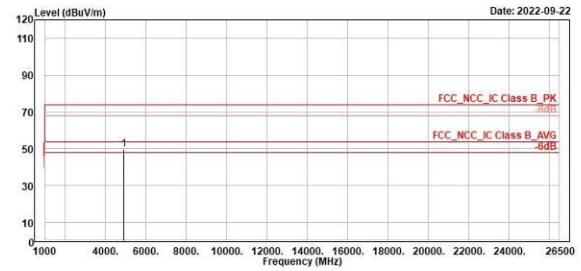
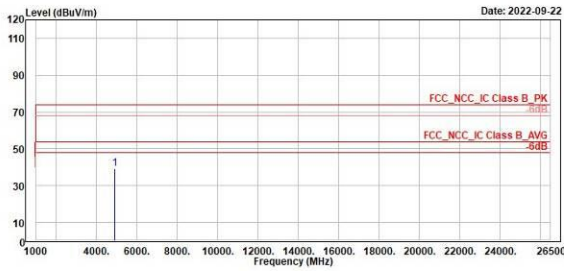
High Channel (Vertical)



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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4924.00	39.33	48.25	-8.92	74.00	-34.67	100	360 Peak	Horizontal	

Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4924.00	49.62	58.94	-9.32	74.00	-24.38	200	341 Peak	Vertical	

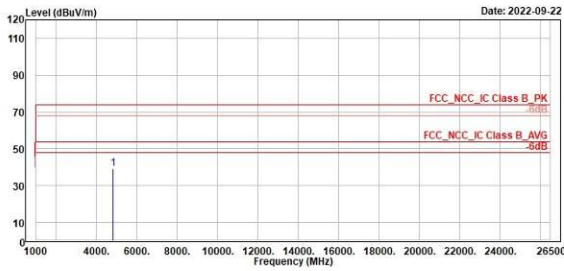
802.11g

Low Channel (Horizontal)

Low Channel (Vertical)



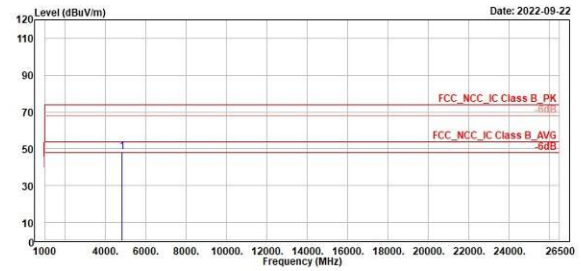
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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	PoI/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4824.00	39.14	48.15	-9.01	74.00	-34.86	200	347 Peak	Horizontal	



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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	PoI/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4824.00	48.53	57.89	-9.36	74.00	-25.47	228	360 Peak	Vertical	

802.11g

Middle Channel (Horizontal)

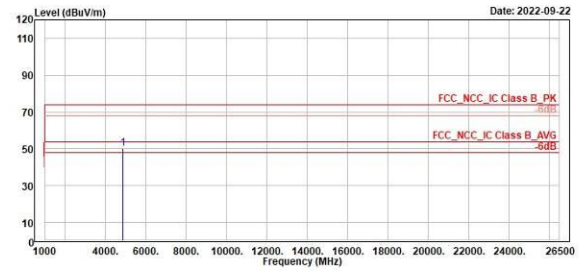
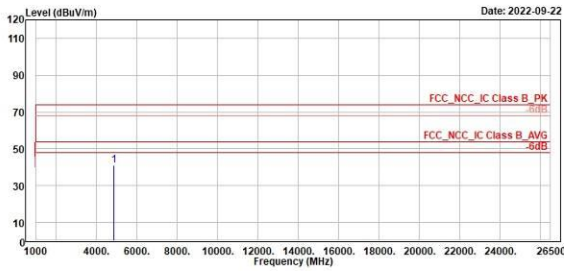
Middle Channel (Vertical)



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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	PoI/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4874.00	41.23	50.22	-8.99	74.00	-32.77	100	351 Peak	Horizontal	

Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	PoI/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4874.00	50.37	59.71	-9.34	74.00	-23.63	199	360 Peak	Vertical	

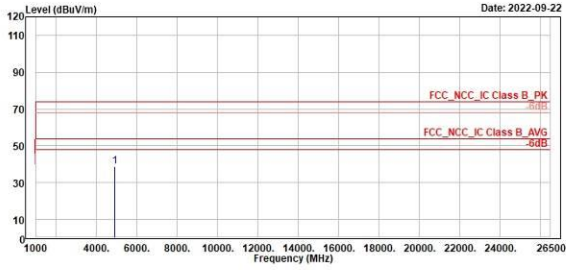
802.11g

High Channel (Horizontal)

High Channel (Vertical)



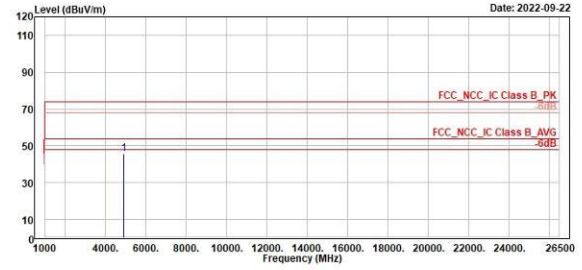
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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	PoI/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4924.00	38.78	47.78	-8.92	74.00	-35.22	100	342 Peak	Horizontal	



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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	PoI/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4924.00	45.61	54.93	-9.32	74.00	-28.39	300	360 Peak	Vertical	

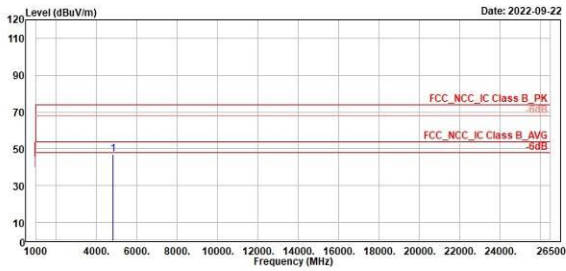
802.11n HT20

Low Channel (Horizontal)

Low Channel (Vertical)



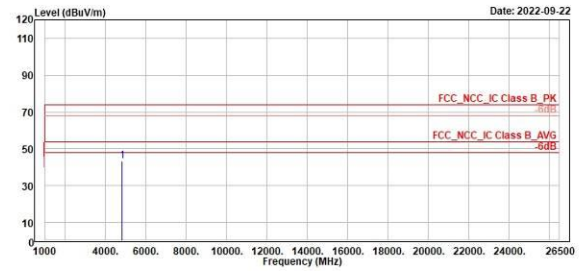
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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	PoI/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4824.00	46.90	55.91	-9.01	74.00	-27.10	200	360 Peak	Horizontal	



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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	PoI/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4824.00	43.13	52.49	-9.36	74.00	-30.87	300	360 Peak	Vertical	

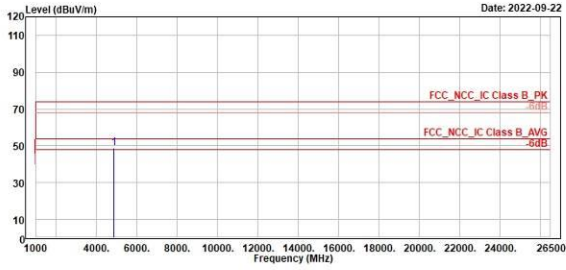
802.11n HT20

Middle Channel (Horizontal)

Middle Channel (Vertical)



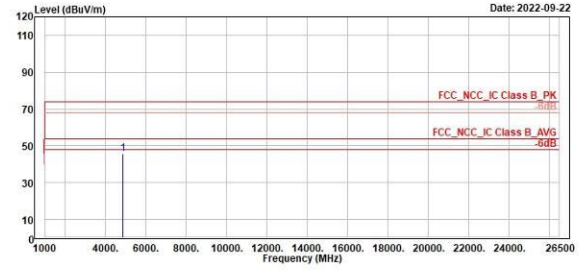
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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	PoI/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4874.00	48.66	57.65	-8.99	74.00	-25.34	248	360 Peak	Horizontal	



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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	PoI/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4874.00	45.52	54.86	-9.34	74.00	-28.48	300	346 Peak	Vertical	

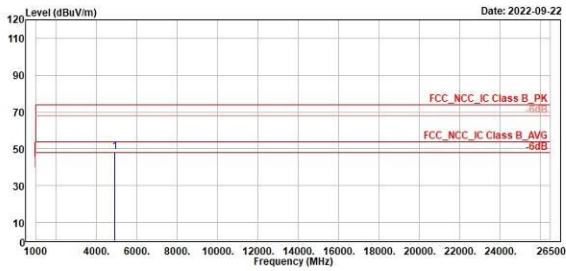
802.11n HT20

High Channel (Horizontal)

High Channel (Vertical)



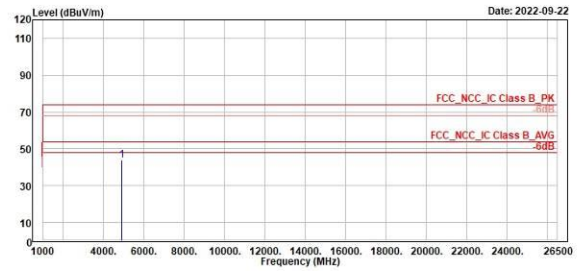
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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	PoI/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4924.00	48.37	57.29	-8.92	74.00	-25.63	273	360 Peak	Horizontal	



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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	PoI/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4924.00	43.89	53.21	-9.32	74.00	-30.11	299	360 Peak	Vertical	

<Sector Antenna> Band Edges, 2.31GHz ~ 2.9GHz

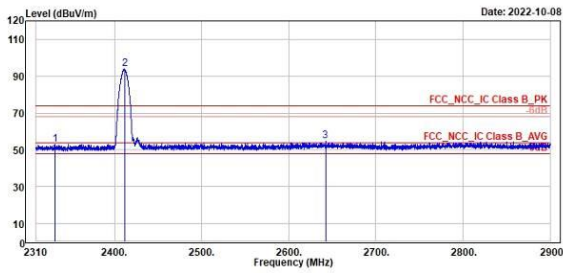
802.11b

Low Channel (Horizontal) Peak

Low Channel (Vertical) Peak



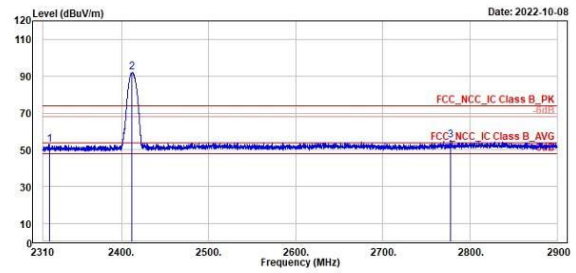
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1	2	3	Read Level	Level Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
2331.83	52.98	15.59	37.39	74.00	-21.02	153	11	Peak	Horizontal		
2412.00	93.92	56.29	37.63	74.00	19.92	153	11	Peak	Horizontal		
2642.17	54.57	16.38	38.19	74.00	-19.43	153	11	Peak	Horizontal		



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1	2	3	Read Level	Level Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
2317.43	53.06	16.04	37.02	74.00	-20.94	110	28	Peak	Vertical		
2412.00	92.28	54.93	37.35	74.00	18.28	110	28	Peak	Vertical		
2777.75	55.02	16.91	38.11	74.00	-18.98	110	28	Peak	Vertical		

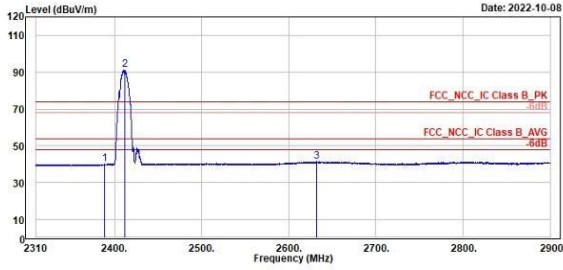
802.11b

Low Channel (Horizontal) Average

Low Channel (Vertical) Average



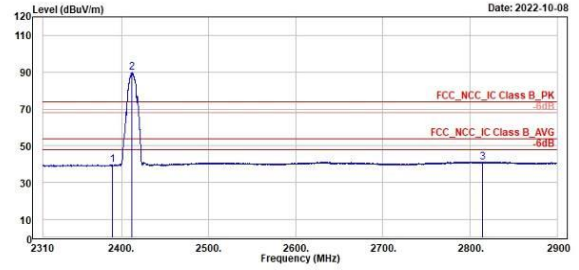
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2389.18	49.00	2.42	37.58	54.00	-14.00	153	11	Average Horizontal
2 *	2412.00	91.27	53.64	37.63	54.00	37.27	153	11	Average Horizontal
3	2632.49	41.39	3.21	38.18	54.00	-12.61	153	11	Average Horizontal



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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2390.00	39.73	2.43	37.30	54.00	-14.27	110	28	Average Vertical
2 *	2412.00	89.68	52.33	37.35	54.00	35.68	110	28	Average Vertical
3	2814.80	41.22	3.02	38.20	54.00	-12.78	110	28	Average Vertical

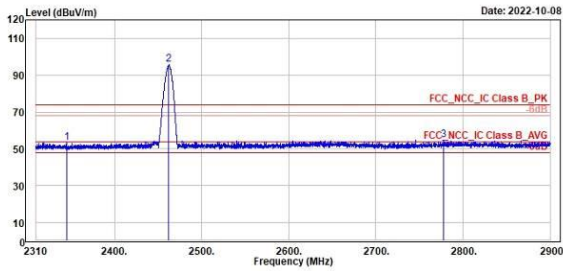
802.11b

High Channel (Horizontal) Peak

High Channel (Vertical) Peak



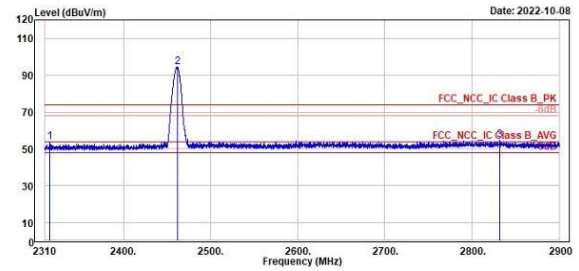
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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2345.05	53.45	16.01	37.44	74.00	-20.55	206	20 Peak	Horizontal	
2 *	2462.00	95.67	58.83	37.84	74.00	21.67	206	20 Peak	Horizontal	
3	2777.40	54.65	16.60	38.05	74.00	-19.35	206	20 Peak	Horizontal	



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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2315.78	53.71	16.78	37.01	74.00	-20.29	100	19 Peak	Vertical	
2 *	2462.00	94.57	57.81	37.56	74.00	20.57	100	19 Peak	Vertical	
3	2831.68	54.88	16.67	38.21	74.00	-19.12	100	19 Peak	Vertical	

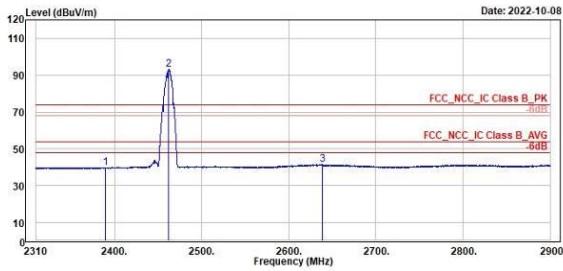
802.11b

High Channel (Horizontal) Average

High Channel (Vertical) Average



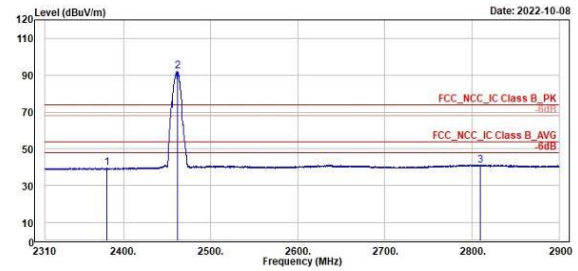
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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2389.53	39.88	2.38	37.50	54.00	-14.12	206	20 Average	Horizontal	
2 *	2462.00	93.13	55.49	37.64	54.00	39.13	206	20 Average	Horizontal	
3	2638.87	41.45	3.26	38.19	54.00	-12.55	206	20 Average	Horizontal	



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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2381.27	39.72	2.43	37.29	54.00	-14.28	100	19 Average	Vertical	
2 *	2462.00	92.02	54.46	37.56	54.00	38.02	100	19 Average	Vertical	
3	2809.97	41.26	3.07	38.19	54.00	-12.74	100	19 Average	Vertical	

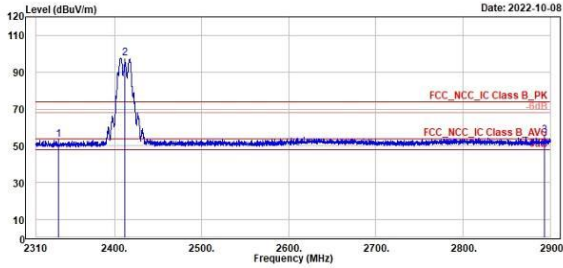
802.11g

Low Channel (Horizontal) Peak

Low Channel (Vertical) Peak



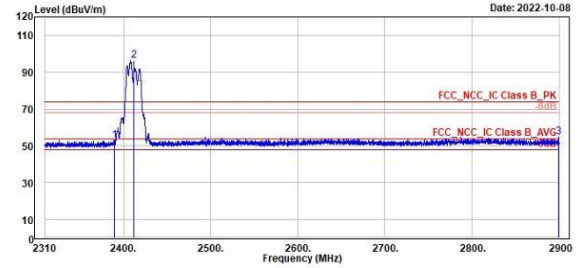
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Peak	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2336.08	53.58	16.17	37.41	74.00	-20.42	140		12 Peak	Horizontal	
2 *	2412.00	97.67	60.04	37.63	74.00	23.67	140		12 Peak	Horizontal	
3	2893.51	55.77	17.51	38.26	74.00	-18.23	140		12 Peak	Horizontal	



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Peak	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2389.65	53.10	15.00	37.30	74.00	-20.90	386	17	Peak	Vertical	
2 *	2412.00	96.05	58.70	37.35	74.00	22.05	386	17	Peak	Vertical	
3	2898.82	54.55	16.55	38.00	74.00	-19.45	386	17	Peak	Vertical	

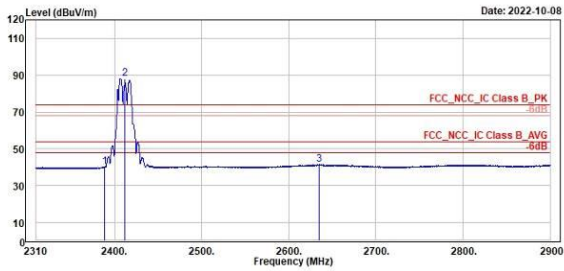
802.11g

Low Channel (Horizontal) Average

Low Channel (Vertical) Average



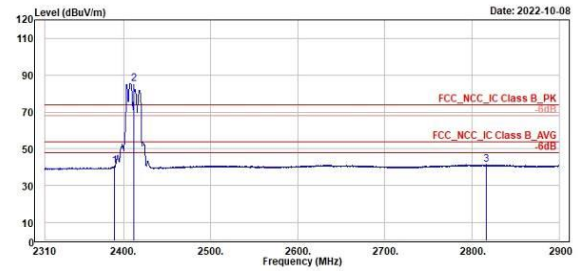
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2389.38	49.37	2.79	37.58	54.00	-13.63	140	12 Average	Horizontal
2 *	2412.00	88.26	50.63	37.63	54.00	34.26	140	12 Average	Horizontal
3	2635.33	41.34	3.15	38.19	54.00	-12.66	140	12 Average	Horizontal



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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2390.00	49.45	3.15	37.30	54.00	-13.55	386	17 Average	Vertical
2 *	2412.00	85.51	48.16	37.35	54.00	31.51	386	17 Average	Vertical
3	2815.98	41.37	3.17	38.20	54.00	-12.63	386	17 Average	Vertical

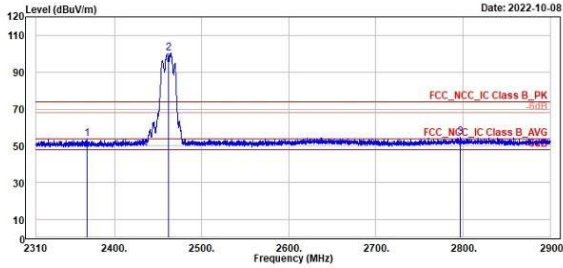
802.11g

High Channel (Horizontal) Peak

High Channel (Vertical) Peak



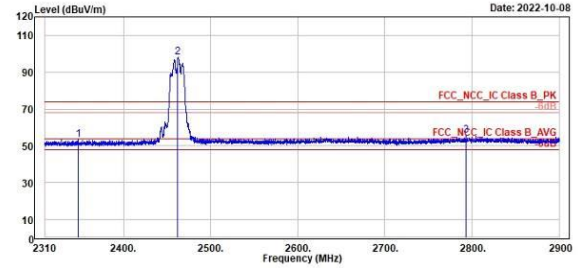
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2368.65	53.84	16.32	37.52	74.00	-20.16	192	39	Peak	Horizontal	
2 *	2462.00	100.28	62.64	37.64	74.00	26.28	192	39	Peak	Horizontal	
3	2797.46	54.54	16.46	38.08	74.00	-19.46	192	39	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	2348.23	53.23	15.99	37.24	74.00	-20.77	100	20	Peak	Vertical	
2 *	2462.00	97.94	60.38	37.56	74.00	23.94	100	20	Peak	Vertical	
3	2793.21	55.62	17.46	38.16	74.00	-18.38	100	20	Peak	Vertical	

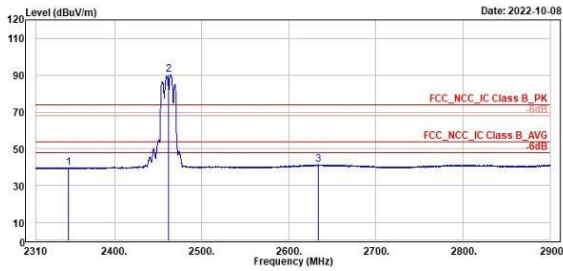
802.11g

High Channel (Horizontal) Average

High Channel (Vertical) Average



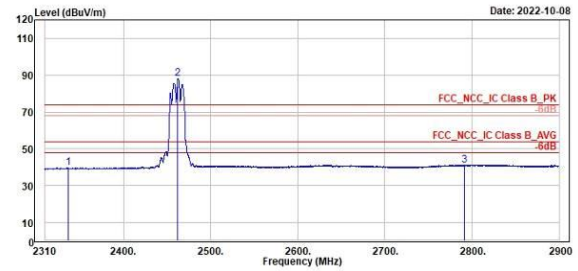
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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2347.76	39.87	2.42	37.45	54.00	-14.13	192	39 Average	Horizontal	
2 *	2462.00	98.13	52.49	37.64	54.00	36.13	192	39 Average	Horizontal	
3	2634.26	41.41	3.22	38.19	54.00	-12.59	192	39 Average	Horizontal	



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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2336.55	39.63	2.47	37.16	54.00	-14.37	100	20 Average	Vertical	
2 *	2462.00	88.27	50.71	37.50	54.00	34.27	100	20 Average	Vertical	
3	2790.85	41.27	3.12	38.15	54.00	-12.73	100	20 Average	Vertical	

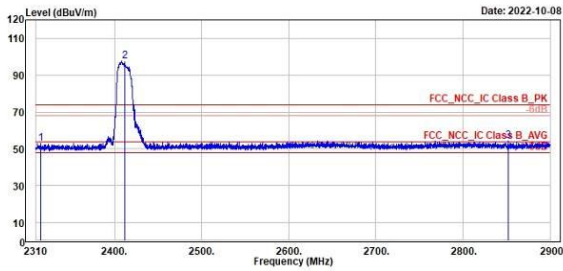
802.11n HT20

Low Channel (Horizontal) Peak

Low Channel (Vertical) Peak



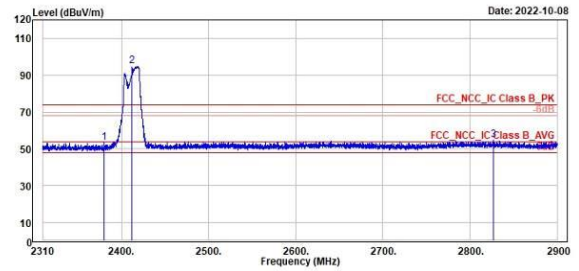
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2315.90	53.03	15.68	37.35	74.00	-20.97	253	36 Peak	Horizontal
2 *	2412.00	97.86	60.23	37.63	74.00	23.86	253	36 Peak	Horizontal
3	2851.74	54.22	16.17	38.05	74.00	-19.78	253	36 Peak	Horizontal



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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2379.97	53.39	16.10	37.29	74.00	-20.61	100	18 Peak	Vertical
2 *	2412.00	94.74	57.39	37.35	74.00	20.74	100	18 Peak	Vertical
3	2827.19	54.81	16.60	38.21	74.00	-19.19	100	18 Peak	Vertical

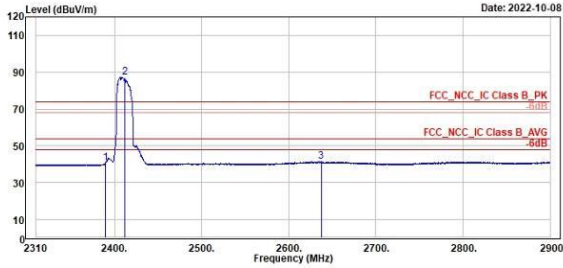
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Low Channel (Horizontal) Average

Low Channel (Vertical) Average



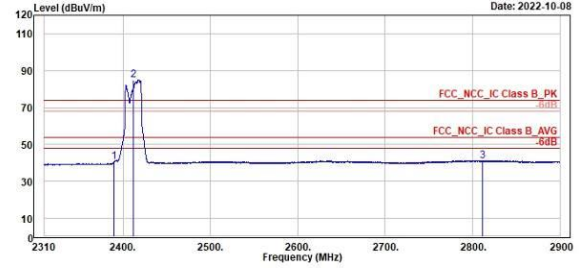
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2390.00	49.78	3.20	37.58	54.00	-13.22	253	36	Average Horizontal
2 *	2412.00	87.29	49.66	37.63	54.00	33.29	253	36	Average Horizontal
3	2637.33	41.35	3.16	38.19	54.00	-12.65	253	36	Average Horizontal



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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2390.00	40.38	3.08	37.30	54.00	-13.62	100	18	Average Vertical
2 *	2412.00	84.98	47.63	37.35	54.00	30.98	100	18	Average Vertical
3	2811.62	41.27	3.08	38.19	54.00	-12.73	100	18	Average Vertical

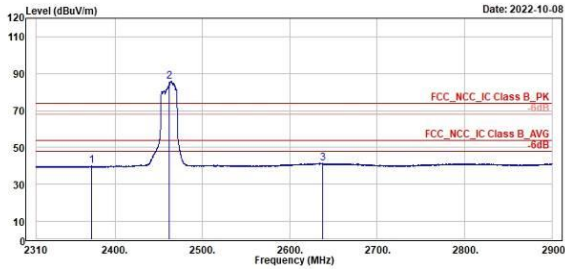
802.11n HT20

High Channel (Horizontal) Peak

High Channel (Vertical) Peak



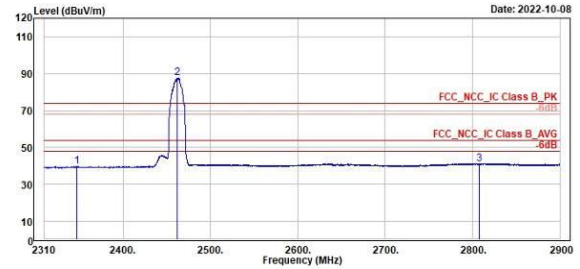
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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2373.72	40.01	2.48	37.53	54.00	-13.99	219	20 Average	Horizontal	
2 *	2462.00	85.90	46.26	37.64	54.00	31.90	219	20 Average	Horizontal	
3	2637.69	41.36	3.19	38.19	54.00	-12.62	219	20 Average	Horizontal	



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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2347.05	39.68	2.45	37.23	54.00	-14.32	100	35 Average	Vertical	
2 *	2462.00	87.70	50.14	37.56	54.00	33.70	100	35 Average	Vertical	
3	2808.00	41.29	3.10	38.19	54.00	-12.71	100	35 Average	Vertical	

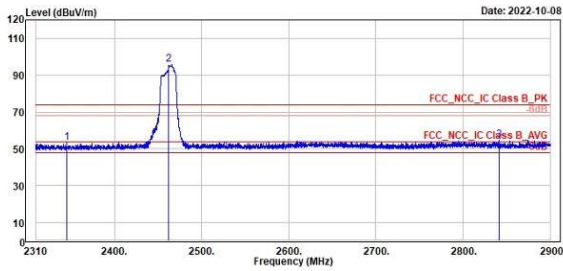
802.11n HT20

High Channel (Horizontal) Average

High Channel (Vertical) Average



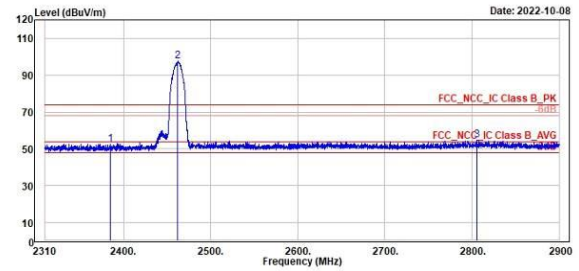
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Peak	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2345.75	53.50	16.06	37.44	74.00	-20.50	219	20	Peak	Horizontal	
2 *	2462.00	95.63	57.89	37.84	74.00	21.63	219	20	Peak	Horizontal	
3	2841.00	54.76	16.71	38.05	74.00	-19.24	219	20	Peak	Horizontal	



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Peak	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2384.69	52.62	15.32	37.30	74.00	-21.38	100	35	Peak	Vertical	
2 *	2462.00	97.60	60.04	37.56	74.00	23.60	100	35	Peak	Vertical	
3	2805.84	54.92	16.74	38.18	74.00	-19.08	100	35	Peak	Vertical	

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

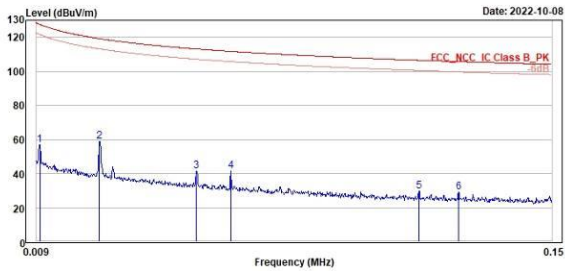
802.11n HT20

High Channel 9kHz~150kHz(Open)

High Channel 150kHz~30MHz(Open)



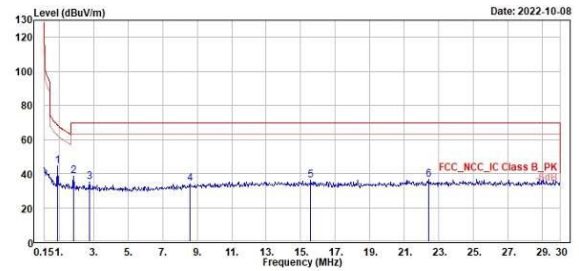
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.01	56.92	39.21	17.71	127.60	-70.68	100	96 QP	Open
2	0.03	58.83	39.65	19.18	119.18	-60.35	100	335 QP	Open
3	0.05	41.40	22.15	19.25	113.13	-71.73	100	176 QP	Open
4	0.06	41.48	22.44	19.04	111.72	-70.24	100	283 QP	Open
5	0.11	29.83	11.56	18.27	106.49	-76.66	100	354 QP	Open
6	0.12	29.30	10.99	18.31	105.70	-76.40	100	353 QP	Open



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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.93	44.56	25.35	19.21	68.27	-23.71	100	258 QP	Open
2	1.85	38.49	19.12	19.37	69.50	-31.01	100	155 QP	Open
3	2.78	35.15	15.68	19.47	69.50	-34.35	100	156 QP	Open
4	8.57	33.96	13.17	20.79	69.50	-35.54	100	165 QP	Open
5	15.58	35.00	14.14	21.76	69.50	-33.60	100	65 QP	Open
6	22.39	36.46	14.31	22.15	69.50	-33.04	100	152 QP	Open

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

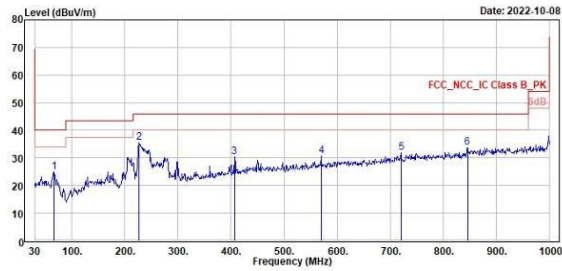
802.11n HT20

High Channel (Horizontal)

High Channel (Vertical)



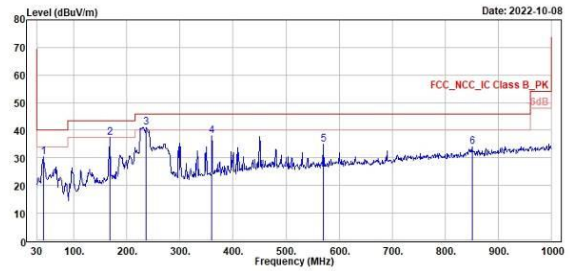
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	65.89	34.83	32.93	-8.18	46.00	-15.17	200	197 QP	Horizontal
2	226.91	35.68	43.88	-7.48	46.00	-18.32	200	16 QP	Horizontal
3	486.36	30.48	33.27	-2.79	46.00	-15.52	200	213 QP	Horizontal
4	578.29	30.62	30.99	-0.37	46.00	-15.38	200	232 QP	Horizontal
5	728.64	31.96	30.00	1.96	46.00	-14.04	100	286 QP	Horizontal
6	845.77	33.71	29.68	4.03	46.00	-12.29	200	154 QP	Horizontal



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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	41.64	30.55	36.61	-6.06	46.00	-9.45	100	144 QP	Vertical
2	167.74	37.49	43.38	-5.89	43.58	-6.01	100	285 QP	Vertical
3	236.61	41.14	47.95	-6.81	46.00	-4.86	100	178 QP	Vertical
4	359.80	38.11	41.76	-3.65	46.00	-7.89	100	22 QP	Vertical
5	578.29	35.02	35.39	-0.37	46.00	-10.98	100	326 QP	Vertical
6	850.62	33.96	29.91	4.05	46.00	-12.04	200	57 QP	Vertical

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

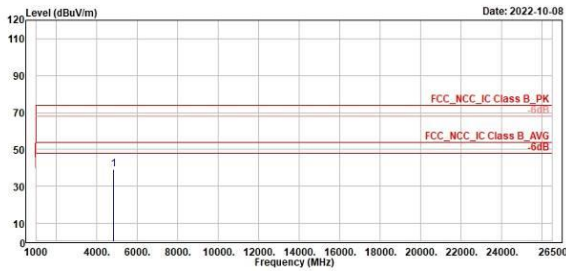
802.11b

Low Channel (Horizontal)

Low Channel (Vertical)



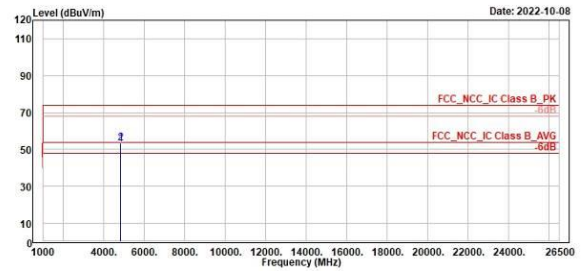
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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 4824.00	39.05	48.06	-9.01	74.00	-34.95	200	299	Peak	Horizontal	



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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 4824.00	52.77	62.13	-9.36	54.00	-1.23	200	341	Average	Vertical	
2 4824.00	53.59	62.95	-9.36	74.00	-20.41	200	341	Peak	Vertical	

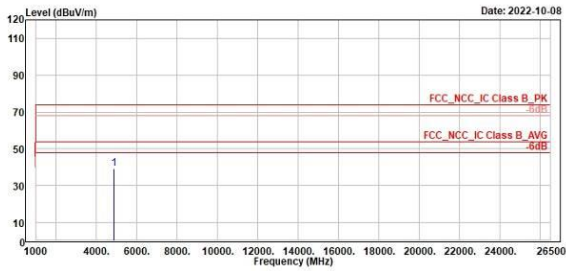
802.11b

Middle Channel (Horizontal)

Middle Channel (Vertical)



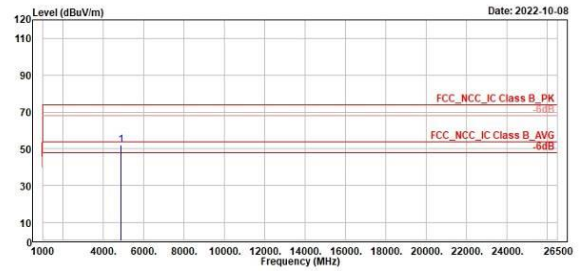
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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4874.00	39.22	48.21	-8.99	74.00	-34.78	200	122 Peak	Horizontal	



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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4874.00	52.23	61.57	-9.34	74.00	-21.77	200	349 Peak	Vertical	

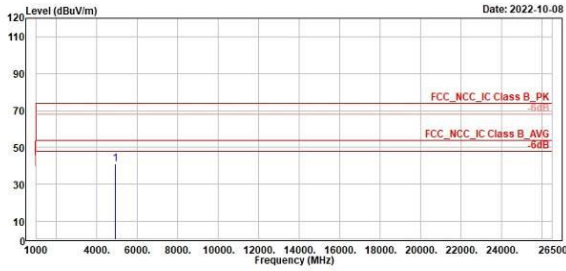
802.11b

High Channel (Horizontal)

High Channel (Vertical)



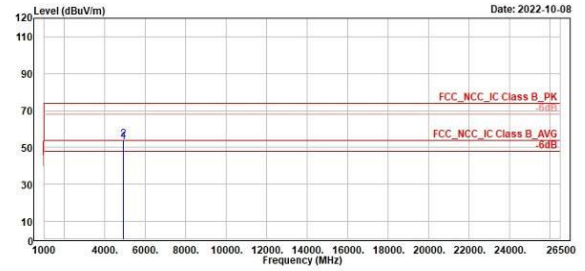
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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4924.00	41.20	50.12	-8.92	74.00	-32.80	100	96 Peak	Horizontal	



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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4924.00	52.86	62.18	-9.32	54.00	-1.14	200	356 Average	Vertical	
2	4924.00	54.38	63.70	-9.32	74.00	-19.62	200	356 Peak	Vertical	

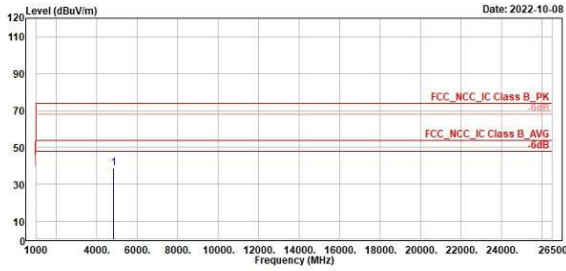
802.11g

Low Channel (Horizontal)

Low Channel (Vertical)



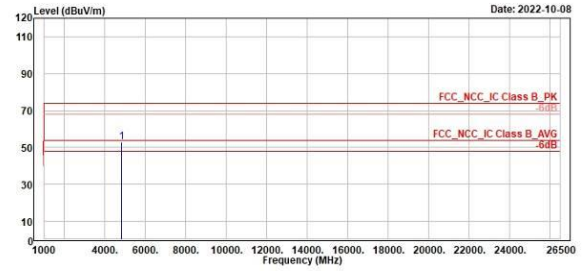
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No. 458-18, Sec 2, FenHiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4824.00	38.80	47.81	-9.01	74.00	-35.20	300	60 Peak	Horizontal	



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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4824.00	52.77	62.13	-9.36	74.00	-21.23	200	7 Peak	Vertical	

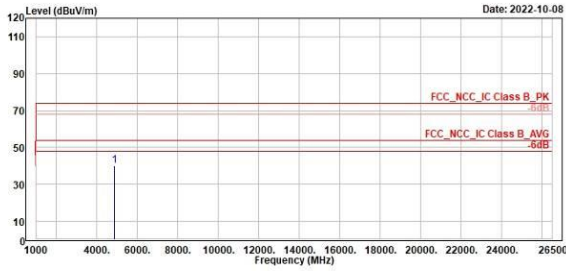
802.11g

Middle Channel (Horizontal)

Middle Channel (Vertical)



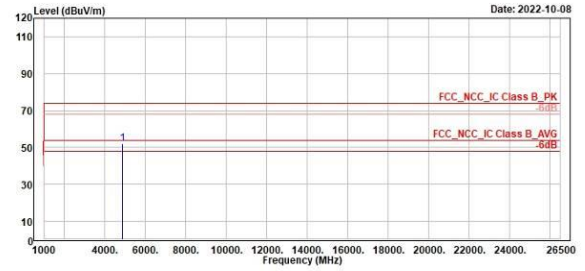
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Tel: +886-2172-1000 Fax: +886-2172-1322



Freq	Level	Read Level	Factor	Limit	Over Line	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4874.00	40.13	49.12	-8.99	74.00	-33.87	300	58 Peak	Horizontal	



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Freq	Level	Read Level	Factor	Limit	Over Line	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4874.00	51.79	61.13	-9.34	74.00	-22.21	200	344 Peak	Vertical	

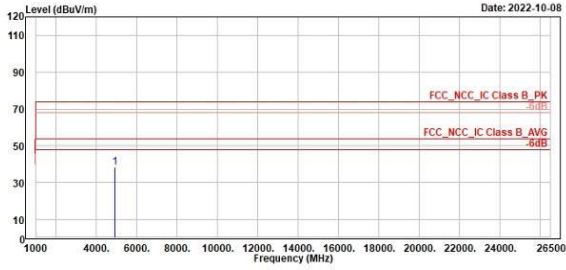
802.11g

High Channel (Horizontal)

High Channel (Vertical)



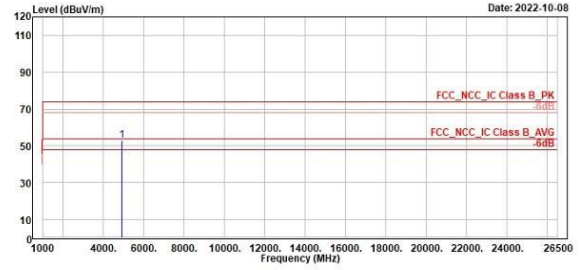
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Tel: +886-2172-1000 Fax: +886-2172-1322



Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4924.00	38.35	47.27	-8.92	74.00	-35.65	100	228 Peak	Horizontal	



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Tel: +886-2172-1000 Fax: +886-2172-1322



Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4924.00	52.90	62.22	-9.32	74.00	-21.10	176	360 Peak	Vertical	

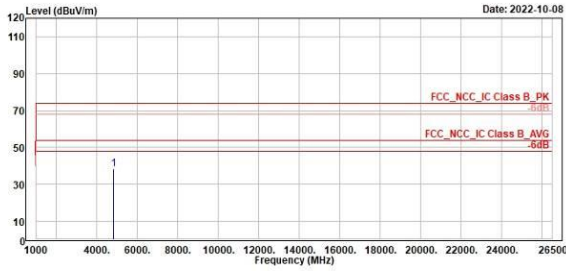
802.11n HT20

Low Channel (Horizontal)

Low Channel (Vertical)



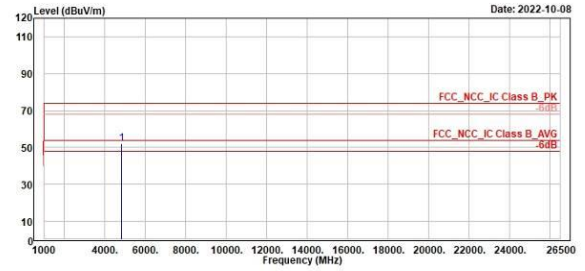
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Tel: +886-2172-1000 Fax: +886-2172-1322



Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 4824.00	38.14	47.15	-9.01	74.00	-35.86	200	358	Peak	Horizontal	



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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 4824.00	51.90	61.26	-9.36	74.00	-22.10	200	11	Peak	Vertical	

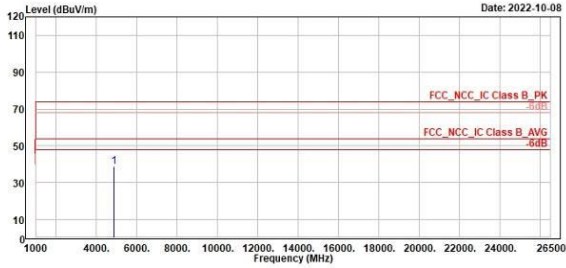
802.11n HT20

Middle Channel (Horizontal)

Middle Channel (Vertical)



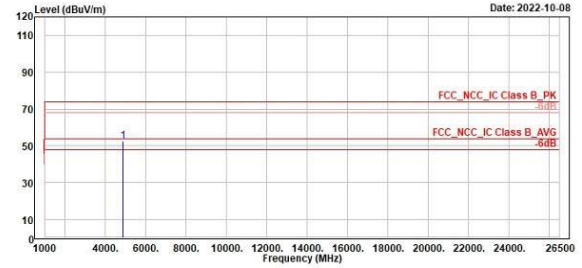
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Tel: +886-2172-1000 Fax: +886-2172-1322



Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4874.00	38.95	47.94	-8.99	74.00	-35.05	100	33 Peak	Horizontal	



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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4874.00	52.25	61.59	-9.34	74.00	-21.75	200	7 Peak	Vertical	

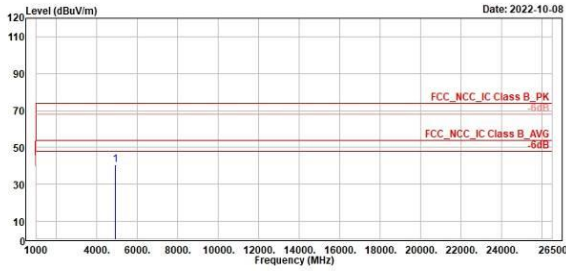
802.11n HT20

High Channel (Horizontal)

High Channel (Vertical)



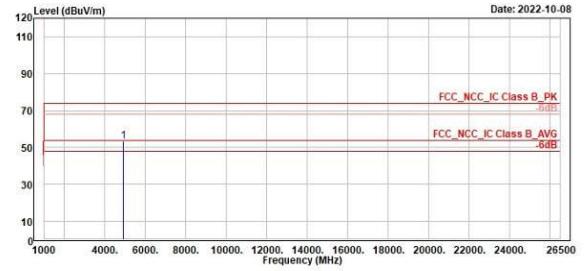
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1	4924.00	40.55	49.47	-8.92	74.00	-33.45	300	318	Peak	Horizontal
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1	4924.00	53.38	62.78	-9.32	74.00	-20.62	200	347	Peak	Vertical
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