

Report No.: SEWM2206000084RG02

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TEST REPORT

Application No.: SEWM2206000084RG

Applicant: Nauto

Address of Applicant: 220 Portage Avenue, Palo Alto, California 94306

Manufacturer: Nauto

Address of Manufacturer: 220 Portage Avenue, Palo Alto, California 94306 **EUT Description:** Al-enabled fleet management in-vehicle device

Model No.: Nauto 3-1

Trade Mark: Nauto

FCC ID: 2AKJ5-N31

Standards: FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart C

Date of Receipt: 2022/6/20

Date of Test: 2022/6/28 to 2022/7/4

Date of Issue: 2022/7/5

Test Result : PASS *

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:

Panta Sun Wireless Laboratory Manager



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1 Version

Revision Record					
Version Chapter Date Modifier Remark					
01		2022/7/5		Original	

Prepared By	weller liu
	(Weller Liu) / Test Supervisor
Checked By	well wei'
	(Well Wei) / Reviewer



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Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)		Refer to ZR20209005902-01	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013 Section 6.2	Refer to ZR20209005902-01	PASS
Duty Cycle			Refer to ZR20209005902-01	Reporting only
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013 Section11.9.2.3	Refer to ZR20209005902-01	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013 Section 11.8 Option 2 / 6.9.3	Refer to ZR20209005902-01	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10 2013 Section 11.10.2	Refer to ZR20209005902-01	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Refer to ZR20209005902-01	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Refer to ZR20209005902-01	PASS
Radiated Spurious Emissions	15.247(d); 15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d); 15.205/15.209	ANSI C63.10 2013 Section 11.12	Refer to ZR20209005902-01	PASS



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Remark:

This test report (Report No.: SEWM2206000084RG02 issued on 2022-07-05) is based on the original test report (Report No.: ZR/2020/9005902-01 issued on 2021-05-13).

Review this report and original report, this report just changing the parts according to the declaration letter from client.

Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report only the radiated spurious emissions were performed based on the worst case of the original report with report number ZR/2020/9005902-01 issued on 2021-05-13 and other test data refer to the previous report with ZR/2020/9005902-01 issued on 2021-05-13.



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3 General Information

3.1 Details of Client

Applicant:	Nauto
Address of Applicant:	220 Portage Avenue, Palo Alto, California 94306
Manufacturer:	Nauto
Address of Manufacturer:	220 Portage Avenue, Palo Alto, California 94306

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Tizzy Song

3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• FCC –Designation Number: CN1312

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an

accredited testing laboratory. Designation Number: CN1312.

Test Firm Registration Number: 717327



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3.4 General Description of EUT

EUT Description:	AI-enabled fleet management in-vehicle device				
Model No.:	Nauto 3-1				
Trade Mark:	Nauto				
Hardware Version:	V8				
Software Version:	F50				
Operation Fraguesia	802.11b/g/n(l	HT20):		2412MHz to 2462	MHz
Operation Frequency:	802.11n(HT4	0):		2422MHz to 2452	MHz
Madulation Turns	802.11b:	DSSS (DBPSk	K, DQPSK	, CCK)	
Modulation Type:	802.11g/n:	OFDM (BPSK,	QPSK, 1	6QAM, 64QAM)	
Number of Channels:	802.11b/g/n(HT20): 11 802.11n(HT40): 7				
Channel Spacing:	5MHz				
	⊠ SISO	802.11b/g/n			
		CDD: 802.11b/g/n/VHT/ax: Tx & Rx			
Smart System:	□ мімо	STBC: 802.11n/VHT/ax: Tx & Rx			
		TXBF: 802.11n/VHT/ax: Tx & Rx			
	☐ Diversity 802.11b/g: Tx & Rx				
Antenna Type:	□External, □	☑Integrated			
Antenna Gain*:	□ Provided by client				
Antenna Gain .	-1.0dBi				
	⊠Provided b	y client			
RF Cable*:	0.5dB(0.6~10	(GHz) 0.8dB(1.		4~2GHz)	1.0dB(2.1~2.7GHz)
	1.5dB(3~4GH		1.8dB(4.	4~6GHz)	

Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information , SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion. Remark:

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	rage. 60133						
	Operation Frequency of each channel (802.11b/g/n HT20)						
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		
		Operation Fre	equency of ea	ch channel (802.11n HT40)	
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
3	2422MHz	6	2437MHz	9	2452MHz		
4	2427MHz	7	2442MHz				
5	2432MHz	8	2447MHz				

Remark:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency for 802.11 b/g/n (HT20)	Frequency for 802.11n (HT40)
The Lowest channel	2412MHz	2422MHz
The Middle channel	2437MHz	2437MHz
The Highest channel	2462MHz	2452MHz



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3.5 Test Environment and Mode

Environment Parameter	101.0 kPa Selected Values During Tests		
Relative Humidity	44-46 % RH Ambient		
Value	Temperature(°C) Voltage(V)		
NTNV	22~23	12&24	
LTNV	-20	12&24	
HTNV	50	12&24	

Remark:

NV: Normal Voltage NT: Normal Temperature

LT: Low Extreme Test Temperature HT: High Extreme Test Temperature

3.6 Description of Support Units

The EUT has been tested as an independent unit.

3.7 Worst-case configuration and mode

Low data rate was used to test on antenna port conducted tests and radiated spurious emissions since it has the highest maximum power. Following are the worst-case data rates set for test:

Modulation Type	SISO - Data Rate	MIMO - Data Rate
802.11b	1 Mbps	/
802.11g	6 Mbps	/
802.11n (HT 20)	MCS0 (6.5 Mbps)	/
802.11n (HT 40)	MCS0 (13.5 Mbps)	/



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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(b)

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

The antenna is integrated and no consideration of replacement. The best case gain of the antenna is -1.0dBi.



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4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207				
Test Method:	ANSI C63.10: 2013 Section 6.2				
Test Frequency Range:	150kHz to 30MHz				
Receiver Setup:	RBW = 9kHz, VBW = 30	RBW = 9kHz, VBW = 30kHz			
Limit:	Francisco (MIII-)	Limit (d	BuV)		
	Frequency range (MHz)	Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the log	arithm of the frequency.			
Test Procedure:	room. 2) The EUT was connect Impedance Stabilization impedance. The power of a second LISN 2, which plane in the same way a multiple socket outlet straingle LISN provided the 3) The tabletop EUT was ground reference plane. placed on the horizontal 4) The test was perform of the EUT shall be 0.4 revertical ground reference.	ed with a vertical ground refe n from the vertical ground refe e plane was bonded to the ho	ugh a LISN 1 (Line 0Ω/50μH + 5Ω linear EUT were connected to ference g measured. A ble power cables to a exceeded. table 0.8m above the ement, the EUT was brence plane. The rear erence plane. The rizontal ground		
	unit under test and bond mounted on top of the gr between the closest poir the EUT and associated In order to find the maxin	SN 1 was placed 0.8 m from the doto a ground reference plane. This dots of the LISN 1 and the EUT equipment was at least 0.8 mum emission, the relative pointerface cables must be characted measurement.	ne for LISNs istance was The All other units of the from the LISN 2. stitions of		



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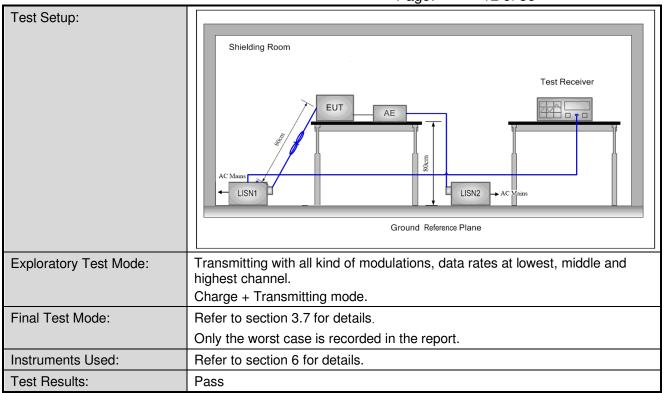
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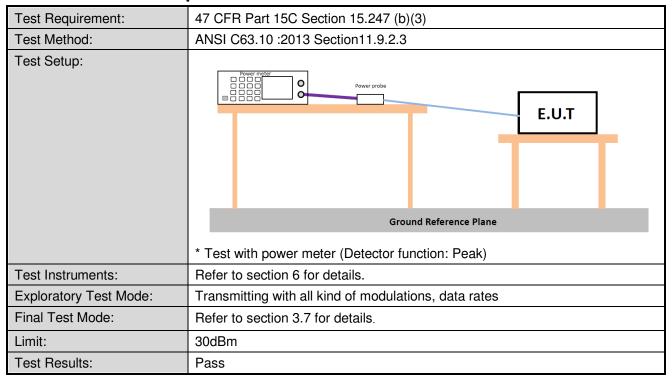


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4.3 Duty Cycle

4.4 Conducted Output Power





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4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)						
Test Method:	ANSI C63.10: 2013 Section 11.8 Option 2 / 6.9.3						
Test Setup:	PC Spectrum Analyzer Communication Tester RF Control Unit Analog Signal Generator DC Power Ground Reference Plane						
Instruments Used:	Refer to section 6 for details.						
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates						
Final Test Mode:	Refer to section 3.7 for details.						
Limit:	≥ 500 kHz						
Test Results:	Pass						



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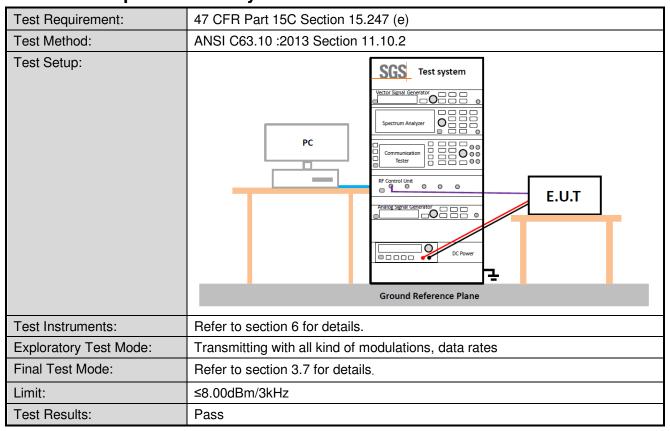
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4.6 Power Spectral Density





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4.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)				
Test Method:	ANSI C63.10: 2013 Section 11.11				
Test Setup:	PC Spectrum Analyzer Spectrum Analyzer Communication Fester RF Control Unit Analog Signal Generator Communication Communication Fester Communication Communication Fester Communication Communication Fester Fester Communication Fester Fester Communication Fester Fester				
Instruments Used:	Refer to section 6 for details.				
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates				
Final Test Mode:	Refer to section 3.7 for details.				
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.				
Test Results:	Pass				



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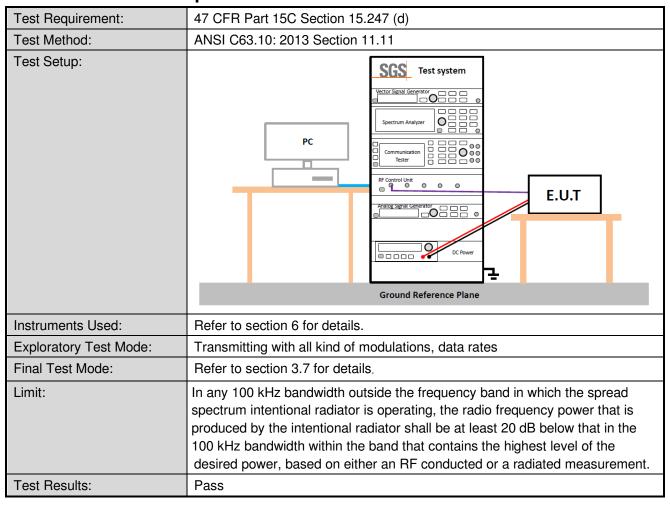
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4.8 RF Conducted Spurious Emissions





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4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10 :2013 Section 11.12							
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)							
Test Frequency:	9kHz ~ 25GHz							
Receiver Setup:	Frequency Detector RBW VBW Rem							
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak			
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average			
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak			
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak			
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average			
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak			
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak			
	Above 1GHz	Peak	1MHz	3MHz	Peak			
	Above IGHZ	Peak	1MHz	3MHz	Peak			
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)			
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300			
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30			
	1.705MHz-30MHz	30	-	-	30			
	30MHz-88MHz	100	40.0	Quasi-peak	3			
	88MHz-216MHz	150	43.5	Quasi-peak	3			
	216MHz-960MHz	200	46.0	Quasi-peak	3			
	960MHz-1GHz	500	54.0	Quasi-peak	3			
	Above 1GHz	500	54.0	Average	3			
	Remark: 15.35(b),Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.							



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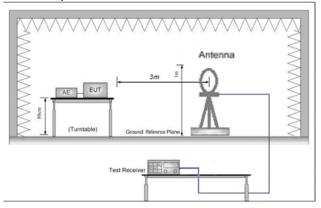
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Test Setup:



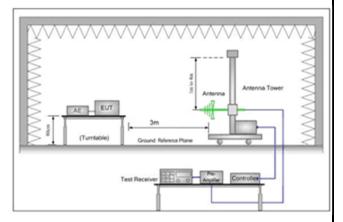


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

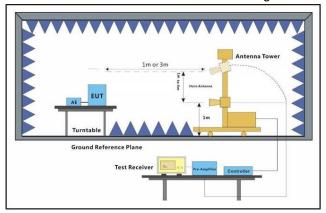


Figure 3. Above 1 GHz

Test Procedure:

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation (Distance from antenna to EUT is 1m for measurements >18GHz).
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. 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(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the



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	1 age. 20 01 33
	maximum reading.
	f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	g. Test the EUT in the lowest channel, the middle channel ,the Highest channel.
	 h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete.
	j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported
	k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed.
	I. At a measurement distance of 1 meter the limit line was increased by $20*LOG(3/1) = 9.54 \text{ dB}$.
Test Configuration:	Measurements Below 1000MHz
	• RBW = 120 kHz
	• VBW = 300 kHz
	Detector = Peak
	Trace mode = max hold
	Peak Measurements Above 1000 MHz
	• RBW = 1 MHz
	• VBW ≥ 3 MHz
	Detector = Peak
	Sweep time = auto
	Trace mode = max hold
	Average Measurements Above 1000MHz
	• RBW = 1 MHz
	• VBW ≥ [3 *RBW]
	• Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.
	Sweep time = auto
	Perform a trace average of at least 100 traces.
	Value = Reading + Factor(Antenna Factor + Cable loss - Preamplifier Factor).
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
Final Test Mode:	Refer to section 3.7 for details.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see	e: Appendix



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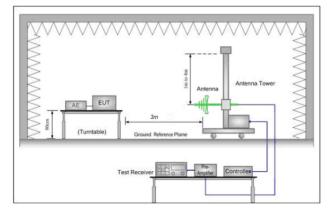
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4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205								
Test Method:	ANSI C63.10: 2013 Section 11.12								
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)								
Limit:	Frequency	Remark							
	30MHz-88MHz	40.0	Quasi-peak						
	88MHz-216MHz	43.5	Quasi-peak						
	216MHz-960MHz	46.0	Quasi-peak						
	960MHz-1GHz	54.0	Quasi-peak						
	Above 1GHz	54.0	Average Value						
	Above IGHZ	74.0	Peak Value						

Test Setup:



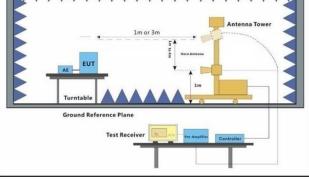


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz



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:

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. 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.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel
- h. Test the EUT in the lowest channel, the Highest channel
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
- Repeat above procedures until all frequencies measured was complete.

Test Configuration:

Measurements Below 1000MHz

- RBW = 120 kHz
- VBW = 300 kHz
- Detector = Peak
- Trace mode = max hold

Peak Measurements Above 1000 MHz

- RBW = 1 MHz
- VBW ≥ 3 MHz
- Detector = Peak
- · Sweep time = auto
- Trace mode = max hold

Average Measurements Above 1000MHz

- RBW = 1 MHz
- VBW ≥ [3 *RBW]
- Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.
- Sweep time = auto
- Perform a trace average of at least 100 traces.

Value = Reading + Factor(Antenna Factor + Cable loss).

Exploratory Test Mode:

Transmitting with all kind of modulations, data rates.



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	Charge + Transmitting mode.
Final Test Mode:	Refer to section 3.7 for details.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass



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5 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
		± 3.13dB (9k -30MHz)
	Dediated Engineer	± 4.8dB (30M -1GHz)
'	Radiated Emission	± 4.8dB (1GHz to 18GHz)
		± 4.8dB (Above 18GHz)



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Equipment List 6

RSE Test System								
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date (yyyy-mm- dd)	Cal Due Date (yyyy-mm- dd)			
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/5/8	2024/5/7			
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2022/2/16	2023/2/15			
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27			
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2021/12/4	2022/12/3			
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/2/19	2023/2/18			
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/2/15	2023/2/14			
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/5/16	2023/5/15			
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/5/16	2023/5/15			
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/5/14	2023/5/13			
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/2/15	2023/2/14			
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/2/15	2023/2/14			
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/2/19	2023/2/18			
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/6/10	2022/6/9			
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR			
Measurement Software	Tonscend	JS32-RSE V4.0.0.1	SUWI-02-09-06	NCR	NCR			



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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Appendix



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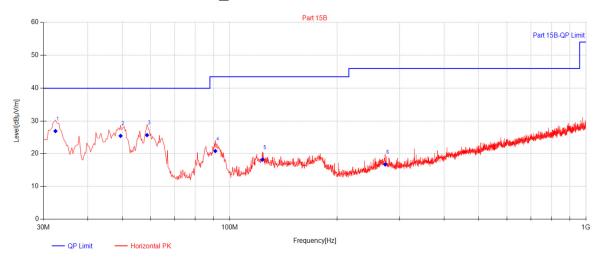
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Test on the worst case:

Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: 11b Channel_01



Final	Data List								
NO.	Frequency	Reading	Factor	QP Value	QP Limit	QP Margin	Height	Angle	Polarity
NO.	[MHz]	[dBµV]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Folanty
1	32.425	50.29	-23.29	27.00	40.00	13.00	125	134	Horizontal
2	49.4	48.13	-22.59	25.54	40.00	14.46	236	346	Horizontal
3	58.615	49.27	-23.50	25.77	40.00	14.23	164	210	Horizontal
4	91.11	47.61	-26.84	20.77	43.50	22.73	185	36	Horizontal
5	123.605	41.66	-23.53	18.13	43.50	25.37	199	149	Horizontal
6	273.2275	38.76	-22.09	16.67	46.00	29.33	120	241	Horizontal



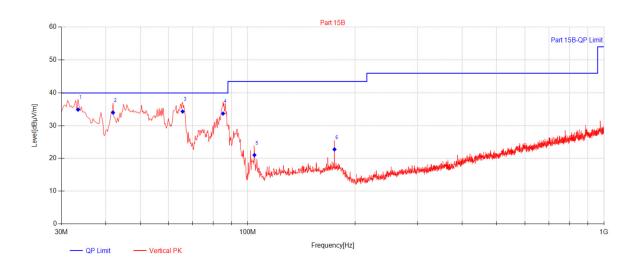
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Final	Data List								
NO.	Frequency	Reading	Factor	QP Value	QP Limit	QP Margin	Height	Angle	Polority
NO.	[MHz]	[dBµV]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	33.395	58.16	-23.22	34.94	40.00	5.06	185	209	Vertical
2	41.8825	56.37	-22.33	34.04	40.00	5.96	194	219	Vertical
3	65.6475	59.19	-24.81	34.38	40.00	5.62	172	129	Vertical
4	85.29	60.43	-26.68	33.75	40.00	6.25	266	243	Vertical
5	104.4475	46.34	-25.35	20.99	43.50	22.51	133	294	Vertical
6	175.2575	43.36	-20.64	22.72	43.50	20.78	201	301	Vertical



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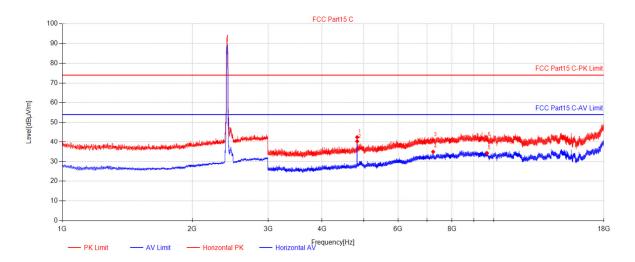
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Transmitter emission Above 1GHz 802.11b_Channel 01



Final	Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	4824.0000	55.68	-13.15	42.53	74.00	31.47	124	195	Horizontal		
2	4824.5	53.37	-13.15	40.22	54.00	13.78	137	195	Horizontal		
3	7236.0000	47.92	-6.96	40.96	74.00	33.04	246	251	Horizontal		
4	7236.0000	41.85	-6.96	34.89	54.00	19.11	194	356	Horizontal		
5	9648.0000	35.37	-1.17	34.20	54.00	19.80	217	166	Horizontal		
6	9648.0000	42.34	-1.17	41.17	74.00	32.83	137	251	Horizontal		



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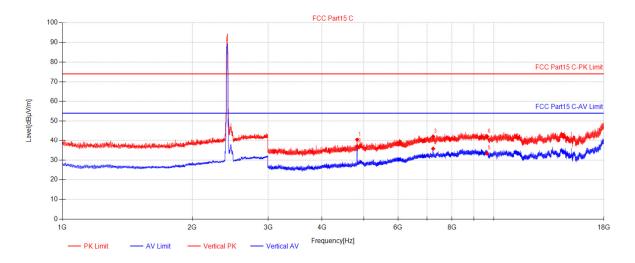
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802.11b_Channel 01



Final	Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	4824.0000	53.47	-13.15	40.32	74.00	33.68	215	193	Vertical		
2	4824.5	50.06	-13.15	36.91	54.00	17.09	236	193	Vertical		
3	7236.0000	49.11	-6.96	42.15	74.00	31.85	145	25	Vertical		
4	7236.0000	42.65	-6.96	35.69	54.00	18.31	194	54	Vertical		
5	9648.0000	34.51	-1.17	33.34	54.00	20.66	172	53	Vertical		
6	9648.0000	43.35	-1.17	42.18	74.00	31.82	201	356	Vertical		



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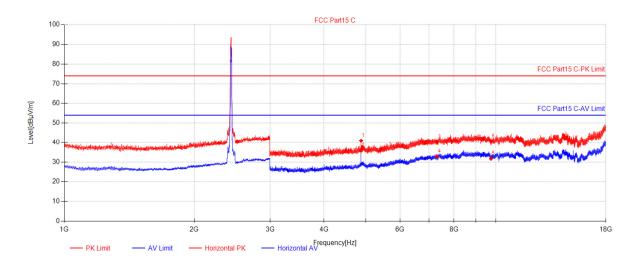
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802.11b_Channel 06



Final	Final Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4874.0000	53.88	-13.01	40.87	74.00	33.13	154	215	Horizontal			
2	4874.5	48.74	-13.00	35.74	54.00	18.26	185	233	Horizontal			
3	7311.0000	47.41	-7.17	40.24	74.00	33.76	196	193	Horizontal			
4	7311.0000	39.89	-7.17	32.72	54.00	21.28	172	332	Horizontal			
5	9748.0000	32.87	-1.18	31.69	54.00	22.31	231	25	Horizontal			
6	9748.0000	41.84	-1.18	40.66	74.00	33.34	201	249	Horizontal			



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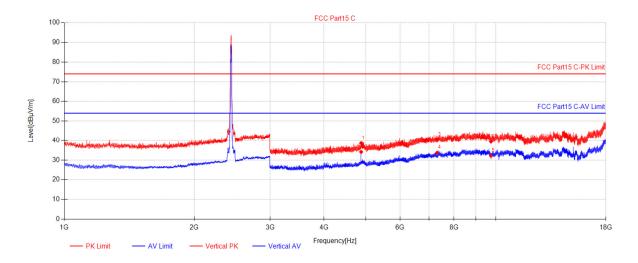
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802.11b_Channel 06



Final	Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	4874.0000	51.55	-13.01	38.54	74.00	35.46	215	332	Vertical		
2	4874.5	47.07	-13.00	34.07	54.00	19.93	230	249	Vertical		
3	7311.0000	47.56	-7.17	40.39	74.00	33.61	136	306	Vertical		
4	7311.0000	40.82	-7.17	33.65	54.00	20.35	142	305	Vertical		
5	9748.0000	33.28	-1.18	32.10	54.00	21.90	194	138	Vertical		
6	9748.0000	40.53	-1.18	39.35	74.00	34.65	172	357	Vertical		



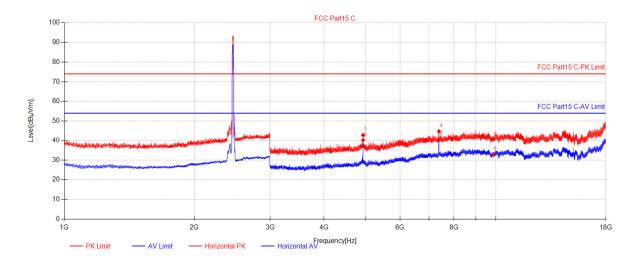
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802.11b_Channel 11



Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	4924.0000	55.75	-12.89	42.86	74.00	31.14	236	82	Horizontal	
2	4924.5	52.98	-12.89	40.09	54.00	13.91	125	56	Horizontal	
3	7385.5	47.05	-6.96	40.09	54.00	13.91	184	335	Horizontal	
4	7386.0000	51.74	-6.96	44.78	74.00	29.22	175	354	Horizontal	
5	9848.0000	33.78	-1.12	32.66	54.00	21.34	191	222	Horizontal	
6	9848.0000	41.62	-1.12	40.50	74.00	33.50	210	82	Horizontal	



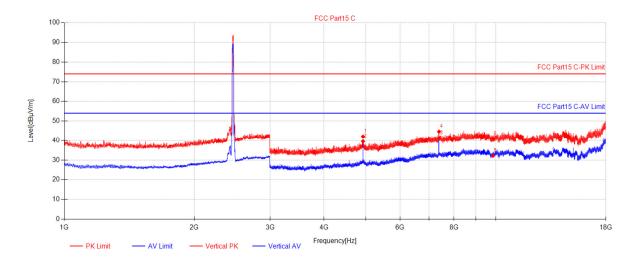
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802.11b_Channel 11



Final	Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	4924.0000	54.94	-12.89	42.05	74.00	31.95	203	166	Vertical		
2	4924.5	52.39	-12.89	39.50	54.00	14.50	233	279	Vertical		
3	7386.0000	48.11	-6.96	41.15	54.00	12.85	194	281	Vertical		
4	7386.0000	51.55	-6.96	44.59	74.00	29.41	161	55	Vertical		
5	9848.0000	33.23	-1.12	32.11	54.00	21.89	125	354	Vertical		
6	9848.0000	41.93	-1.12	40.81	74.00	33.19	214	55	Vertical		

The End



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