

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



EUT Description: Mini
Applicant: Quanta Computer Inc.
No. 188, Wenhua 2nd Road, Guishan District, Taoyuan City
33377, Taiwan
Manufacturer: Quanta Computer Inc.
No. 188, Wenhua 2nd Road, Guishan District, Taoyuan City
33377, Taiwan
Brand Name: Clover
Model No./ISED HVIN: C306
ISED PMN: C306
Report Number: TERF2606002122E2
FCC ID HFS-C306
IC: 1787B-C306
Date of EUT Received: June 17, 2026
Date of Test: July 8, 2026 ~ July 30, 2026
Issue Date: August 10, 2026

Aken Huang

Approved By

Aken Huang

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 and the energy emitted by the sample EUT comply with FCC rule part §15.247, ISSED RSS-247.

The results of this report relate only to the sample identified in this report.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2606002122E2	00	Original	August 10, 2026	Karen Huang	

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.

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1 GENERAL INFORMATION

1.1 Equipment Under Test (EUT)

EUT Description	Mini
Brand Name	Clover
Model No. /ISED HVIN	C306
Firmware Version	N/A
Power Supply	12 Vdc
Test Software (Name/Version)	Qualcomm Sequence Profiling Resource /v6.00.00234.1

1.2 RF Specification

WLAN 2.4GHz

Mode	Frequency Range	Channels	Rated Power (dBm)	
			Peak	Avg.
802.11b	2412~2462	11	23.59	20.95
802.11g	2412~2462	11	28.60	18.37
802.11n_HT20	2412~2462	11	24.94	18.48
802.11n_HT40	2422~2452	7	24.36	18.35
802.11ax_HE20	2412~2462	11	25.26	17.49
802.11ax_HE40	2422~2452	7	24.21	17.44
Modulation type:	CCK,DQPSK, DBPSK for DSSS in 802.11b			
	64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11g,11n			
	1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA in 802.11ax			
Data Rate:	802.11b: 1/2/5.5/11 Mbps			
	802.11g: 6/9/12/18/24/36/48/54 Mbps			
	802.11n_HT20: up to 144.4Mbps			
	802.11n_HT40: up to 300Mbps			
	802.11ax_HE20: up to 286.8Mbps			
	802.11ax_HE40: up to 573.6Mbps			

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WLAN 2.4GHz for IC

Mode	Frequency Range	Channels	Rated Power (dBm)		Rated Power in dBm (EIRP)
			Peak	Avg.	
802.11b	2412~2462	11	23.59	20.95	23.54
802.11g	2412~2462	11	28.60	18.37	20.96
802.11n_HT20	2412~2462	11	24.94	18.48	21.07
802.11n_HT40	2422~2452	7	24.36	18.35	20.94
802.11ax_HE20	2412~2462	11	25.26	17.49	20.09
802.11ax_HE40	2422~2452	7	24.21	17.44	20.03
Modulation type:	CCK,DQPSK, DBPSK for DSSS in 802.11b				
	64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11g,11n				
	1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA in 802.11ax				
Data Rate:	802.11b: 1/2/5.5/11 Mbps				
	802.11g: 6/9/12/18/24/36/48/54 Mbps				
	802.11n_HT20:up to 144.4Mbps				
	802.11n_HT40:up to 300Mbps				
	802.11ax_HE20:up to 286.8Mbps				
	802.11ax_HE40:up to 573.6Mbps				

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1.3 Antenna Designation

Ant. Type	Brand	Model No.	Freq. (MHz)	Peak Gain(dBi)
PIFA	AWAN	DQ60ALP6Y02	2400~2483.5	2.87
PIFA	AWAN	DQ60ALP6Y01	2400~2483.5	2.3

Antenna	2400~2483.5 MHz
Ch0 Antenna	2.87
Ch1 Antenna	2.3
Directional Gain	
Uncorrelated (dBi)	2.59
Correlated (dBi)	5.60

Note:

1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.
2. The antenna information is provided by the applicant. The laboratory does not verify the accuracy of this information, and all test results related to antenna characteristics are based solely on the data supplied. Responsibility for the authenticity and accuracy of these specifications rests entirely with the party who provided the information.
3. The antenna complies with part 15.203 requirement and no consideration of replacement. Please see EUT photo for details.
4. The directional gain is calculated according to section F. 2). e). (ii) of FCC KDB 662911 D01.

1.4 Operating Frequencies

2400~2483.5 MHz, Bandwidth: 20MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
1	2412 MHz	2	2417 MHz	3	2422 MHz	4	2427 MHz
5	2432 MHz	6	2437 MHz	7	2442 MHz	8	2447 MHz
9	2452 MHz	10	2457 MHz	11	2462 MHz	-	-
2400~2483.5 MHz, Bandwidth: 40MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
3	2422 MHz	4	2427 MHz	5	2432 MHz	6	2437 MHz
7	2442 MHz	8	2447 MHz	9	2452 MHz	-	-

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1.5 EUT Availability and The Worst Test Modes

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
3. The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.
4. Investigation has been done on all the possible configurations for searching the worst case.

Mode		Transmission Chain								Single Transmission Spatial	Multi Transmission Spatial
V	802.11 b	V	Ch0	V	Ch1		Ch2		Ch3	1TX	V 2TX
V	802.11 g	V	Ch0	V	Ch1		Ch2		Ch3	1TX	V 2TX
V	802.11 n	V	Ch0	V	Ch1		Ch2		Ch3	1TX	V 2TX
	802.11 ac		Ch0		Ch1		Ch2		Ch3	1TX	2TX
V	802.11 ax	V	Ch0	V	Ch1		Ch2		Ch3	1TX	V 2TX
	802.11 be		Ch0		Ch1		Ch2		Ch3	1TX	2TX

5. Therefore, below summary is the modes of test configuration that yield the highest reading and generate the highest emission chosen to carry out the relevantly mandatory test items.

CONDUCTED TEST					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1,6,11	DSSS	1	2TX
802.11g	1 to 11	1,6,10,11	OFDM	6	2TX
802.11n_HT20	1 to 11	1,6,10,11	OFDM	MCS0	2TX
802.11n_HT40	3 to 9	3,4,6,7,8,9	OFDM	MCS0	2TX
802.11ax_HE20	1 to 11	1,6,11	OFDM	MCS0	2TX
802.11ax_HE40	3 to 9	3,6,9	OFDM	MCS0	2TX

TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11g	1 to 11	6	OFDM	6	2TX

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TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1,6,11	CCK	1	2TX
802.11g	1 to 11	1,6,10,11	OFDM	6	2TX
802.11n20	1 to 11	1,6,10,11	OFDM	MCS0	2TX
802.11n40	3 to 9	3,4,6,7,8,9	OFDM	MCS0	2TX
802.11ax20	1 to 11	1,6,10,11	OFDMA	MCS0	2TX
802.11ax40	3 to 9	3,4,6,7,8,9	OFDMA	MCS0	2TX

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2 SUMMARY OF TEST RESULTS

FCC Rules	ISED Rules	Description Of Test	Result
§15.207(a)	RSS-Gen §8.8	AC Power Line Conducted Emission	Compliant
§15.247(b) (3)	RSS-247 §6.3.2	Peak Output Power	Compliant
§15.247(a)(2)	RSS-247 §6.3.1.a RSS-Gen §6.7	Emission Bandwidth	Compliant
§15.205 §15.209 §15.247(d)	RSS-247 §6.6 RSS-Gen §8.9 RSS-Gen §8.10	Out of Band Emission	Compliant
§15.205 §15.209 §15.247(d)	RSS-247 §6.6 RSS-Gen §8.9 RSS-Gen §8.10	Unwanted Emission	Compliant
§15.247(e)	RSS-247 §6.3.1.b	Power Spectral Density	Compliant
§15.203	N/A	Antenna Requirement	Compliant

2.1 Test Methodology of Applied Standards

1. ANSI C63.10:2020
2. FCC Part 15, Subpart C §15.247
3. FCC KDB 558074 D01 15.247 Meas Guidance v05r02
4. FCC KDB 662911 D01 Multiple Transmitter Output v02r01
5. ISED RSS-247, Issue 4, Jul. 24, 2025
6. ISED RSS-Gen, Issue 5, Apr. 2018
7. ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

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2.2 Measurement Uncertainty

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 1.61 dB
Output Power measurement	+/- 0.97 dB
Emission Bandwidth	+/- 1.38 Hz
Conducted emission measurement	+/- 0.77 dB
Peak Power Density	+/- 0.61 dB
Temperature	+/- 0.60 °C
Humidity	+/- 3.00 %
DC / AC Power Source	+/- 1.00 %

Radiated Spurious Emission Measurement Uncertainty		
Polarization: Vertical	+/- 1.89 dB	9kHz - 30MHz
	+/- 4.10 dB	30MHz - 1000MHz
	+/- 3.41 dB	1GHz - 18GHz
	+/- 3.89 dB	18GHz - 40GHz
Polarization: Horizontal	+/- 1.89 dB	9kHz - 30MHz
	+/- 4.10 dB	30MHz - 1000MHz
	+/- 3.41 dB	1GHz - 18GHz
	+/- 3.89 dB	18GHz - 40GHz
Radiated Spurious Emission	+/- 2.00 dB	33GHz - 50GHz
	+/- 1.59 dB	50GHz - 60GHz
	+/- 1.71 dB	60GHz - 90GHz
	+/- 1.64 dB	90GHz - 140GHz
	+/- 3.84 dB	140GHz - 220GHz

Note

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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2.3 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number / Registration Number	IC CAB identifier / Company Number
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803	SAC 1 / SAC 2 / SAC 3 Conduction 1 / Conducted 1 Conducted 2 / Conducted 3 Conducted 4 / Conducted 5 Conducted 6 / FAC 1	TW0027 / 891563	TW3702 / 4620A
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.2, Keji 1st Rd, Guishan District, Taoyuan City, Taiwan 333	SAC C / SAC D / SAC G Conduction C/ Conducted A Conducted B / Conducted C Conducted D / Conducted E Conducted F / Conducted G FAC A	TW0028 / 200037	TW3702 / 4620E

Measurement	Test Site Name	Test Engineer	EUT S/N	Test Environment	Test Date
Conducted	Conducted D	Henry Chiang	C036UG62040030	23.4~24.1°C / 67~71%	2026/07/15 ~ 2026/07/30
Radiated	SAC G Chamber	Temo Chen	C036UG62020002	22.7~24.7°C / 58~69%	2026/07/20 ~ 2026/07/28
Conduction	Conduction C	Temo Chen	C036UG62020002	23.7°C / 55%	2026/07/29 ~ 2026/07/29

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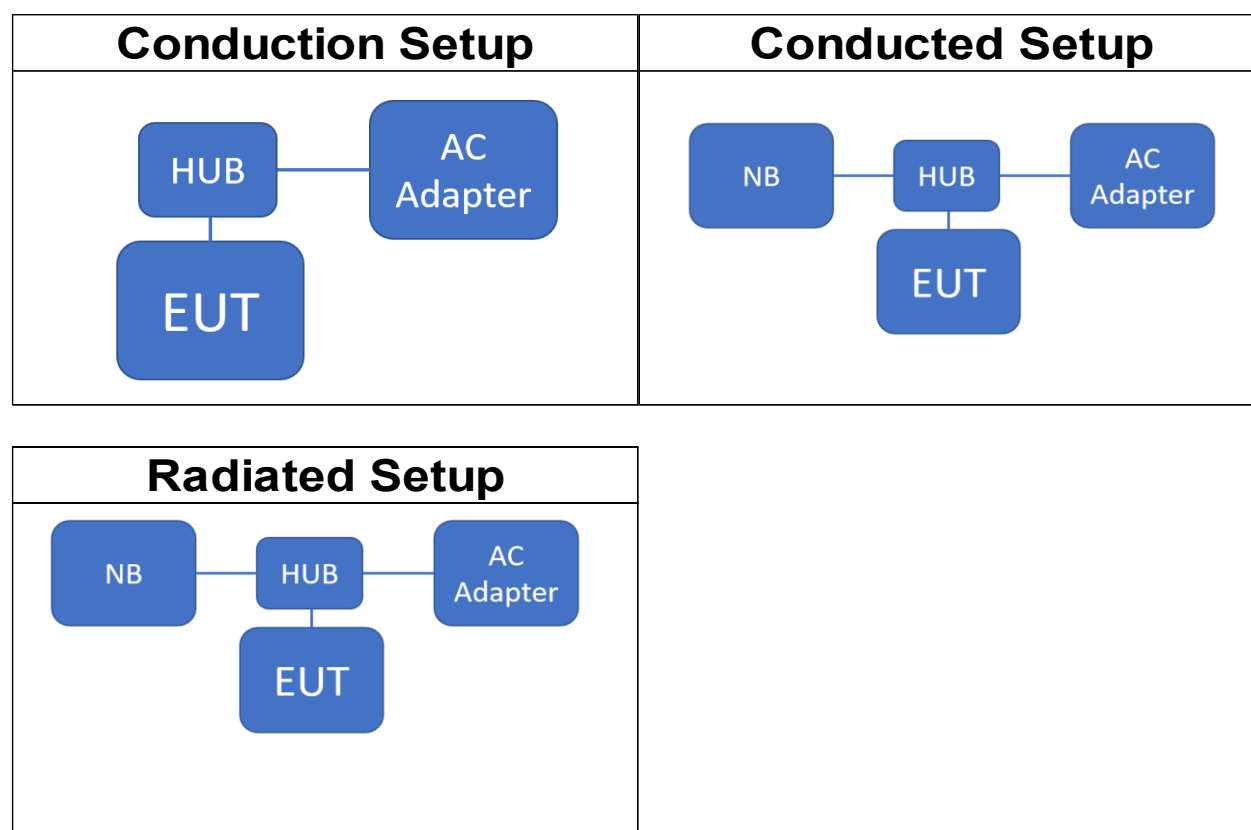
3 CONTROL UNIT(S) AND PERIPHERAL(S)

3.1 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

3.2 Diagrams



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3.3 List

3.3.1 Conduction Setup

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
HUB	clover	H306	H036WG54640059	N/A	N/A
Adapter	clover	FSP040-RHBN3	N/A	N/A	N/A

3.3.2 Conducted Setup

Conducted Emission Test Site: Conducted D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
HUB	clover	H306	H036WG54640068	N/A	N/A
AC adapter	MASS POWER	S042-1B120333M3	N/A	N/A	N/A
Type-A To Type-B Cable	AWM	2725-E322903	N/A	N/A	N/A
Notebook	Lenovo	T440p	P0000665	N/A	N/A

3.3.3 Radiated Setup

Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
HUB	clover	H306	H036WG54640059	N/A	N/A
Adapter	clover	FSP040-RHBN3	N/A	N/A	N/A
Notebook	Lenovo	T470	P0001293	N/A	N/A

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4 TEST INSTRUMENT

4.1 Conducted Measurement

Conducted Emission Test Site: Conducted D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	Woken	WATT-218FS-10	RF16	11/13/2025	11/12/2026
Attenuator	Woken	WATT-218FS-10	RF17	11/13/2025	11/12/2026
Attenuator	Woken	WATT-218FS-10	RF21	11/13/2025	11/12/2026
DC Block	Marvelous	MVE6114	RF42	11/13/2025	11/12/2026
Power Meter	Anritsu	ML2496A	2138005	09/22/2025	09/21/2026
Power Sensor	Anritsu	MA2411B	1911395	09/22/2025	09/21/2026
Power Sensor	Anritsu	MA2411B	1911396	09/22/2025	09/21/2026
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071574	07/01/2026	06/30/2027

4.2 Radiated Measurement

Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
1G Low pass Filter	Woken	EWT-56-0019	RF156	11/13/2025	11/12/2026
2400-2500 Notch Filter	Micro-Tronics	BRM50701-02	RF201	11/13/2025	11/12/2026
3G High Pass Filter	Titan Microwave	T04H30001800070 S01	RF181	11/13/2025	11/12/2026
3m Site NSA	SGS	966 chamber G	N/A	03/30/2026	03/29/2027
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/16/2025	12/15/2026
Broadband Antenna	SCHWARZBECK	VULB 9168	1206	01/08/2026	01/07/2027
Coaxial Cable	EMCI+Huber Suhner	EMCCFD400-NM-NM-8000+EMCCFD400-NM-NM-5000+SUCOFLEX100+EMC104-SM-SM-2000+EMC104-SM-SM-8000+EMC104-SM-SM-5000	210216+210217+84103701/15+160105+210217+210220	11/13/2025	11/12/2026
Horn Antenna	RF SPIN	DRH0844	KV2E19A0844	03/11/2026	03/10/2027
Horn Antenna	RF SPIN	DRH18-E	210105A18E	04/24/2026	04/23/2027
Pre-Amplifier	EMC Instruments	EMC118A45SE	980815	11/13/2025	11/12/2026
Pre-Amplifier	EMC Instruments	EMC184045SEE	980881	11/13/2025	11/12/2026
Pre-Amplifier	EMC Instruments	EMC330N	980781	11/13/2025	11/12/2026
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071574	07/01/2026	06/30/2027
Test Software	audix	e3	E3 210616 SGS Ver.9 (C)	N.C.R	N.C.R

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4.3 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Coaxial Cable	EC Lab	RF-HY-CAB-250	RF-HY-CAB-250-01	03/27/2026	03/26/2027
EMI Test Receiver	R&S	ESCI	101342	04/16/2026	04/15/2027
LISN	SCHWARZBECK Mess-Elektronik	NSLK8127	973	04/20/2026	04/19/2027
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2026	03/26/2027
Test Software	audix	e3	E3 210616 SGS Ver.9 (C)	N.C.R	N.C.R

NOTE: N.C.R refers to Not Calibrated Required.

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5 REGULATORY REQUIREMENTS

5.1 Emission Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

5.2 Duty Cycle

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

5.3 Maximum Output Power

FCC

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt.

If the transmitting antenna of directional gain greater than 6dBi are used the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

ISED

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt and the e.i.r.p. shall not exceed 4 W.

5.4 Maximum Power Spectral Density

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

The power spectral density shall be determined using the same method as is used to determine the maximum conducted output power.

5.5 Out of Band Emission

For emissions in non-restricted frequency bands, in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

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5.6 Unwanted Emissions

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the applicable radiated emission limits as defined in the general emission limit tables. Moreover, for an intentional radiator operating below 10 GHz, the frequency range of measurements shall extend up to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	2400/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note: The lower limit shall apply at the transition frequencies.

5.7 AC Power Line Conducted Emission

Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

Frequency range MHz	Limits (dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note

- The lower limit shall apply at the transition frequencies
- The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

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5.8 Antenna 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 shall be considered sufficient to comply with the provisions of this section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

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6 TEST CONFIGURATION

6.1 Emission Bandwidth



1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. 6dB BW measurements
The testing is performed in accordance with the applicable regulatory measurement procedure.
Set the spectrum analyzer as
RBW= 1% to 5% of the OBW but not less than 100 kHz,
VBW $\geq 3 \times$ RBW,
Span= 2 to 5 times of the OBW,
Sweep=Auto, Detector = Peak, and Trace mode = Max Hold.
Use the X dB bandwidth mode function of the spectrum analyzer and set to 6dB.
Repeat above procedures until all test default channel is completed.
4. 99% BW measurements
The testing is performed in accordance with the applicable regulatory measurement procedure.
Set the spectrum analyzer as
RBW= 1 % to 5% of 99% without going below 10kHz,
VBW $\geq 3 \times$ RBW,
Span= 1.5 to 5 times of the OBW,
Sweep=Auto, Detector = Peak, and Trace mode = Max Hold.
Use the 99% power bandwidth function of the spectrum analyzer.
Repeat above procedures until all test default channel is completed.

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6.2 Maximum Output Power

6.2.1 Duty Cycle



Place the EUT on the table and set it in transmitting mode.

Set the spectrum analyzer as

Center Frequency = fundamental frequency

Span = Zero,

RBW = 8 MHz,

VBW = 8 MHz,

Detector = Peak,

Allow trace to fully stabilize.

Use the delta marker function to determine the ON and OFF times.

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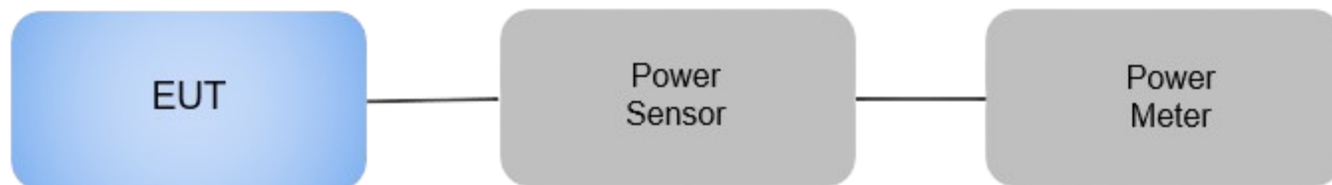
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6.2.2 Maximum Output Power



1. The testing is performed in accordance with the applicable output power measurement procedure.
2. Place the EUT on the table and set it to transmit mode.
3. Remove the antenna from the EUT and connect a low-loss RF cable from the antenna port to the power meter.
4. The power meter is used as auxiliary test equipment to conduct the output power measurement. Record the maximum reading as observed from the spectrum analyzer or power meter.

When testing for multiple output ports in simultaneous transmission mode, the measured values of each individual output port are tested separately and then linearly summed.

The directional gain is calculated using the formula

$$DirectionalGain = 10 \times \log_{10} \left(\frac{(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_n/20})^2}{N_{ant}} \right)$$

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level.

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6.3 Maximum Power Spectral Density



The test is conducted in accordance with the applicable regulatory measurement procedure.

Set spectrum analyzer center frequency to DTS channel center frequency.

Set the span > 1.5 times the DTS channel bandwidth.

Set the RBW = 3 kHz and VBW = 10 kHz.

Detector = Peak

Sweep time = Auto Couple.

Trace mode = Max Hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level.

When testing for multiple output ports in simultaneous transmission mode, the measured values of each individual output port are tested separately and then linearly summed.

The directional gain is calculated using the formula

$$DirectionalGain = 10 \times \log_{10} \left(\frac{(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_n/20})^2}{N_{ant}} \right)$$

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6.4 Out of Band Emission



6.4.1 Reference Level of Emission Limit

The testing is performed in accordance with the applicable measurement procedure.

Set the analyzer center frequency to the DTS channel center frequency.

Set the span to 1.5 times the DTS channel bandwidth.

Set RBW = 100 kHz and VBW = 300 kHz.

Detector = peak

Sweep time = Auto Couple.

Trace mode = Max Hold.

Allow the trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level.

6.4.2 Conducted Band Edge

1. The testing is performed in accordance with the applicable measurement procedure.
2. Connect the antenna port of the EUT to the spectrum analyzer.
3. Remove the antenna from the EUT and connect a low-loss RF cable from the antenna port to the spectrum analyzer.
4. Set the start frequency and stop frequency of the spectrum analyzer to encompass the spectrum to be examined.
5. Configure the spectrum analyzer as follows:
 - RBW = 100 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Sweep = Auto
 - Mark the highest reading of the emission as the reference level.
 - Set the display limit as: reference level marker reading -20 dBm.
 - Mark the highest emissions observed outside of the 2400 MHz to 2483.5 MHz band.
6. Repeat the above procedure for each default test channel (low, middle, and high).

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6.4.3 Conducted Spurious Emission

1. The testing is performed in accordance with the applicable measurement procedure.
2. Connect the antenna port of the EUT to the spectrum analyzer.
3. Configure the spectrum analyzer as follows:
 - RBW = 100 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Sweep = Auto.
 - Allow the trace to fully stabilize.
 - Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental emission bandwidth (EBW).
4. Repeat the above procedures until all default test channels (low, middle, and high) have been measured.

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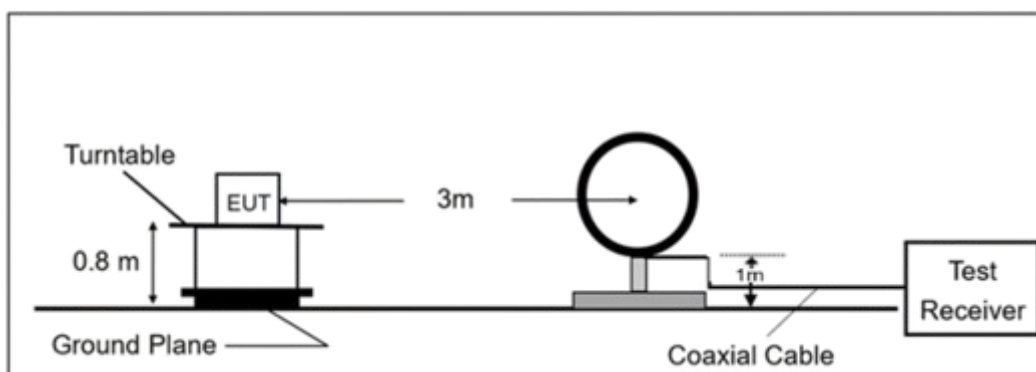
6.5 Unwanted Emissions

For Measurements From 9 kHz To 30 MHz

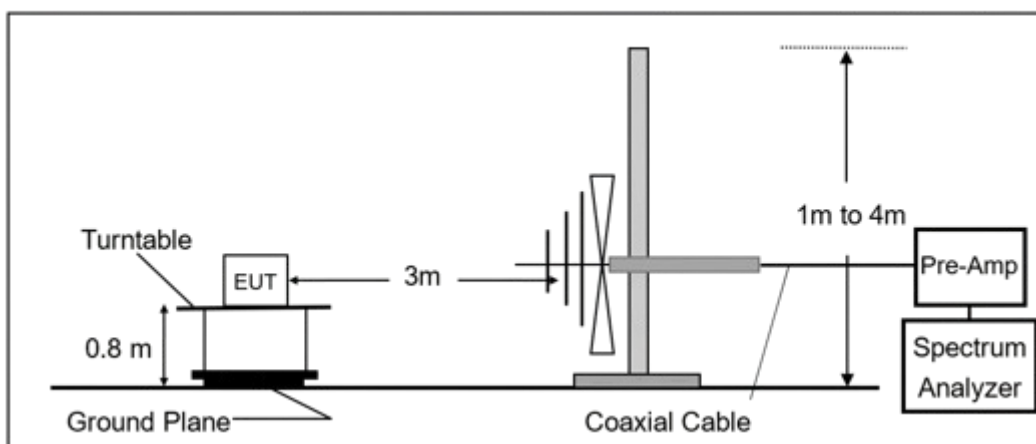
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

Radiated Emission Test Set-Up, Frequency Below 30MHz.



Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



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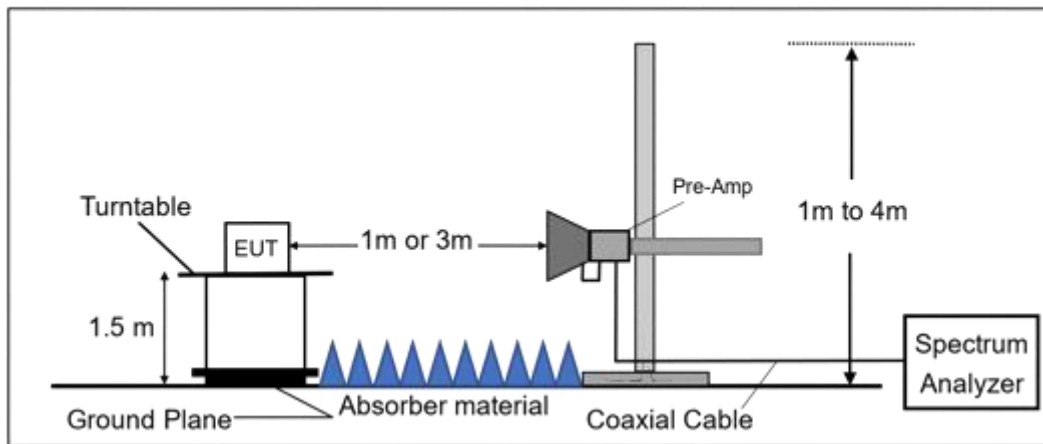
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Radiated Emission Test Set-Up, Frequency Above 1GHz.



1. The testing was performed in accordance with the applicable radiated emission measurement procedure.
2. The EUT was placed on a turntable at a height of 0.8 m for frequencies below 1 GHz and 1.5 m for frequencies above 1 GHz.
3. The turntable was rotated 360 degrees to determine the position of the maximum emission level.
4. The EUT was positioned 3 meters away from the receiving antenna, which was varied in height from 1 m to 4 m to locate the highest emissions.
5. For measurements below 30MHz, set the spectrum analyzer as
 - ☒ For Peak measurement
 - RBW=10 kHz
 - VBW=30 kHz
 - Detector = peak
 - Trace mode = max-hold
 - ☒ For Quasi-peak measurement in receiver mode
 - RBW=10 kHz
 - Detector = Quasi-Peak
 - Peak detection is used unless otherwise noted as quasi-peak.
6. For measurements in 30MHz to 1GHz, set the spectrum analyzer as
 - ☒ For Peak measurement
 - RBW=100 kHz
 - VBW=300 kHz
 - Detector = peak
 - Trace mode = max-hold
 - ☒ For Quasi-peak measurement in receiver mode
 - RBW=120 kHz
 - Detector = Quasi-Peak
 - Peak detection is used unless otherwise noted as quasi-peak.
7. For measurements above 1GHz, set the spectrum analyzer as
 - ☒ For Peak measurement:
 - RBW=1 MHz
 - VBW=3 MHz

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Detector = peak

Trace mode = max-hold

☒ For Average measurement:

☒ Duty cycle $\geq 98\%$:

RBW=1 MHz

VBW=3 MHz

Detector = Power averaging (rms)

trace average was performed over at least 100 traces

☒ Duty cycle $< 98\%$

RBW=1 MHz

VBW $\geq 1/T$

Detector = peak

Trace mode = max-hold

☐ Duty cycle $< 98\%$

RBW=1 MHz

VBW ≥ 3 MHz

Detector = Power averaging (rms)

trace average was performed over at least 100 traces

add Duty cycle factor(dB)

☐ Duty cycle factor (DCF)

the average value of pulsed emissions with duty cycle correction factor 20 log (Ton/100ms) from the peak measurement

8. When measuring radiated emissions above 1 GHz, the receiving antenna was maintained within the "cone of radiation" and pointed at the emission source in both azimuth and elevation, with polarization oriented for maximum response, ensuring it remained within the 3 dB illumination beamwidth of the measurement antenna.
9. The six highest emissions were fully maximized using the above procedures to ensure EUT compliance.
10. Each emission was further maximized by changing the receiving antenna polarization between horizontal and vertical.
11. Repeat the above procedures until all default test channels (low, middle, and high) are measured.

Note: Emissions from 9 kHz to 30 MHz were pre-scanned and found to be at least 20 dB below the applicable limits, and are therefore not reported.

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6.5.1 Field Strength Calculation

The field strength is calculated by adding the antenna factor and cable loss, then subtracting the amplifier gain and any applicable duty cycle correction factor from the measured reading. The basic equation and an example calculation are as follows:

$$FS = RA + AF + CL - AG$$

Where:

FS = Field Strength (dB μ V/m)
RA = Reading Amplitude (dB μ V)
AF = Antenna Factor (dB/m)
CL = Cable Loss (dB)
AG = Amplifier Gain (dB)

The emission limit is expressed in dB μ V/m, which corresponds to the logarithmic conversion of $20 \times \log_{10} (\mu\text{V/m})$.

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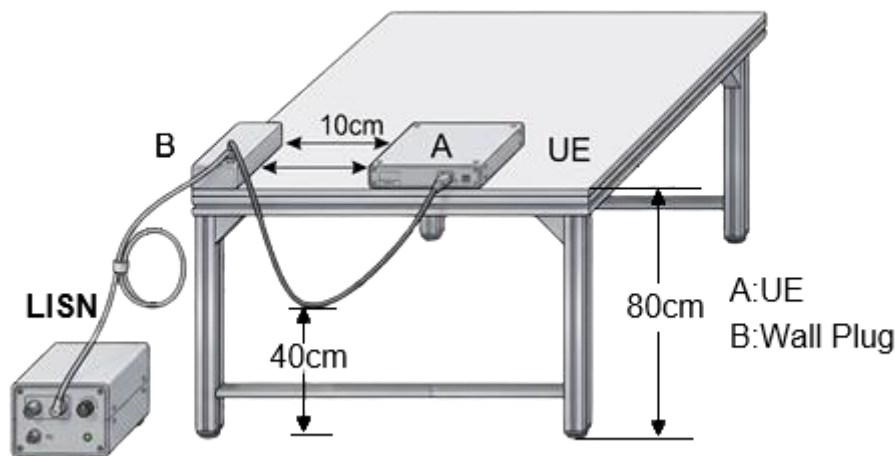
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6.6 AC Power Line Conducted Emission



1. The conducted emission tests were performed at the designated test site using a setup in accordance with ANSI_C63.10
2. The EUT was placed on a non-conductive table that is 0.8 meters above the ground plane. Conducted emissions were measured in the frequency range from 0.15 MHz to 30 MHz using CISPR Quasi-Peak and Average detector modes. The two LISNs provided 50 μ H / 50 ohm coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
3. The AC/DC power adaptor of the EUT was connected to the LISN. The EUT was positioned flush with the rear edge of the table, with a minimum 0.4-meter distance from the shielding wall.
4. The LISNs were connected to the power source and configured according to the test requirements.
5. The maximum emission levels were investigated for each mode of operation. The six highest emissions were further maximized to ensure compliance.
6. The above procedures were repeated for all power supply configurations of the EUT.

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7 TEST RESULTS

7.1 Emission Bandwidth

802.11b_Ch0

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2412	13.069	8204	≥ 500	PASS
2437	12.119	8156	≥ 500	PASS
2462	13.076	8209	≥ 500	PASS

802.11b_Ch1

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2412	11.981	8143	≥ 500	PASS
2437	13.080	8202	≥ 500	PASS
2462	12.091	8144	≥ 500	PASS

802.11g_Ch0

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2412	16.444	16040	≥ 500	PASS
2437	16.425	16050	≥ 500	PASS
2462	16.321	15990	≥ 500	PASS

802.11g_Ch1

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2412	16.314	16180	≥ 500	PASS
2437	16.313	16180	≥ 500	PASS
2462	16.309	16200	≥ 500	PASS

802.11n_HT20_Ch0

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2412	17.648	16980	≥ 500	PASS
2437	17.574	17220	≥ 500	PASS
2462	17.518	17330	≥ 500	PASS

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802.11n_HT20_Ch1

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2412	17.513	16720	≥ 500	PASS
2437	17.518	16680	≥ 500	PASS
2462	17.533	16870	≥ 500	PASS

802.11n_HT40_Ch0

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2422	35.951	35690	≥ 500	PASS
2437	35.988	35570	≥ 500	PASS
2452	35.922	35490	≥ 500	PASS

802.11n_HT40_Ch1

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2422	35.963	35470	≥ 500	PASS
2437	35.870	35690	≥ 500	PASS
2452	35.877	35530	≥ 500	PASS

802.11ax_HE20_Ch0

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2412	18.909	18220	≥ 500	PASS
2437	18.886	18100	≥ 500	PASS
2462	18.849	18540	≥ 500	PASS

802.11ax_HE20_Ch1

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2412	18.843	18450	≥ 500	PASS
2437	18.814	17470	≥ 500	PASS
2462	18.834	16940	≥ 500	PASS

802.11ax_HE40_Ch0

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2422	37.549	36990	≥ 500	PASS
2437	37.582	35970	≥ 500	PASS
2452	37.567	37160	≥ 500	PASS

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802.11ax_HE40_Ch1

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2422	37.533	36900	≥ 500	PASS
2437	37.596	37470	≥ 500	PASS
2452	37.587	33240	≥ 500	PASS

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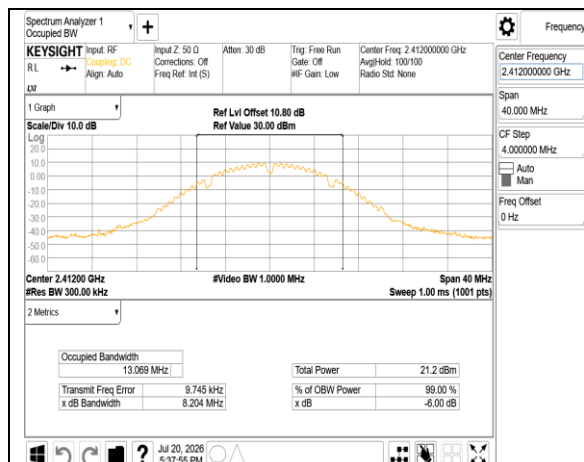
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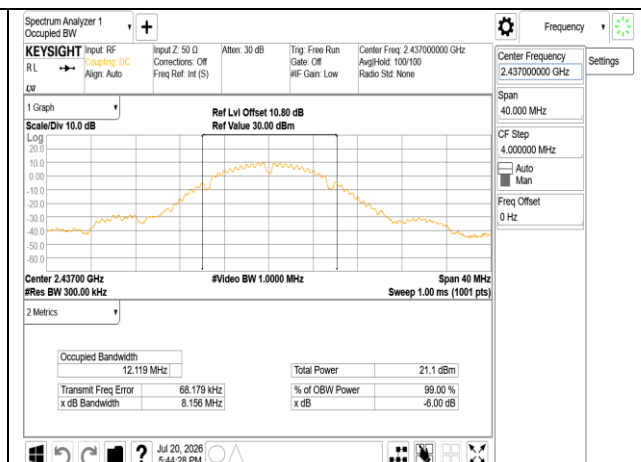
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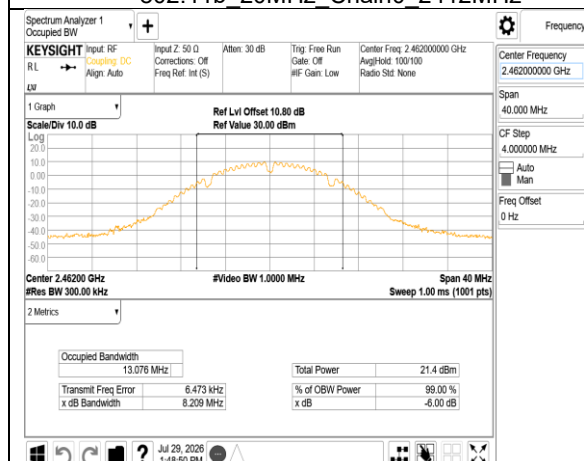
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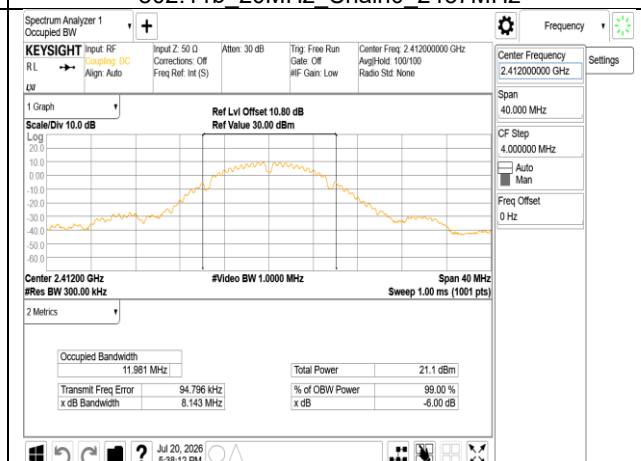
802.11b 20MHz Chain0 2412MHz



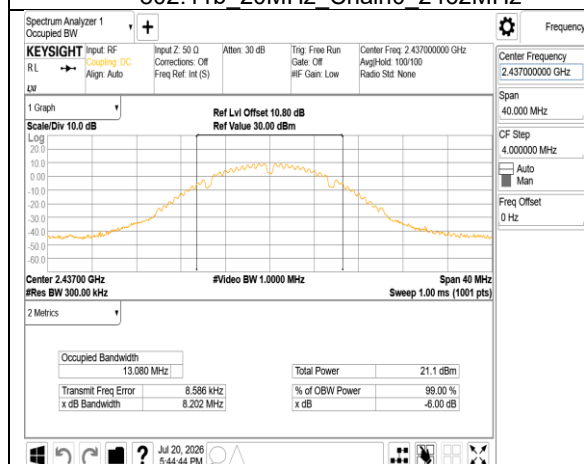
802.11b 20MHz Chain0 2437MHz



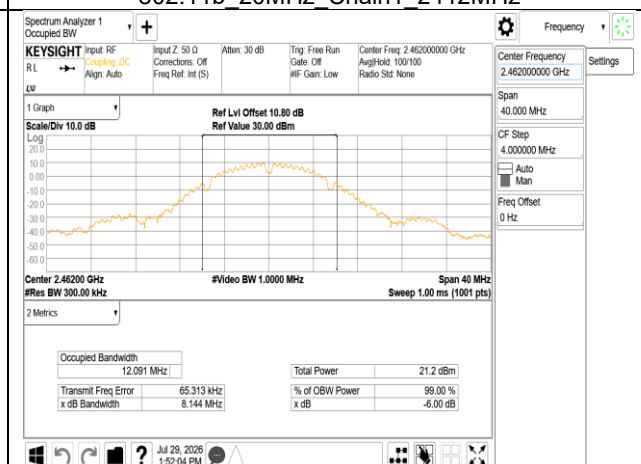
802.11b 20MHz Chain0 2462MHz



802.11b 20MHz Chain1 2412MHz



802.11b 20MHz Chain1 2437MHz



802.11b 20MHz Chain1 2462MHz

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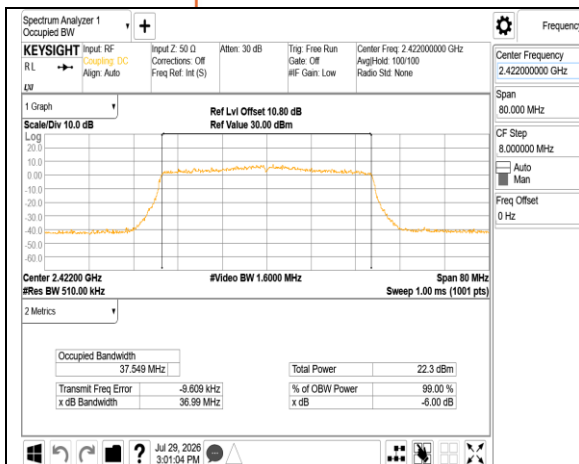
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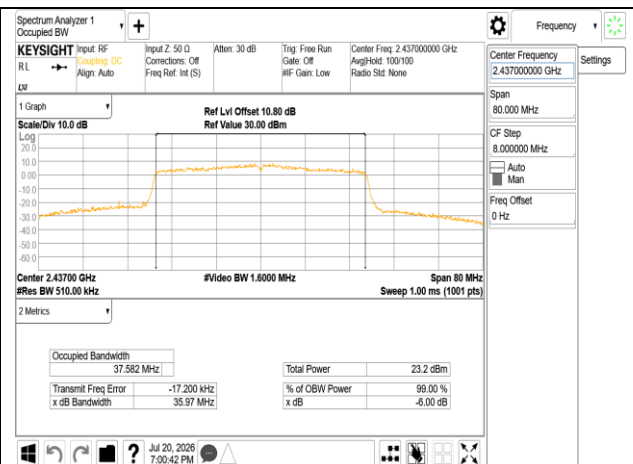
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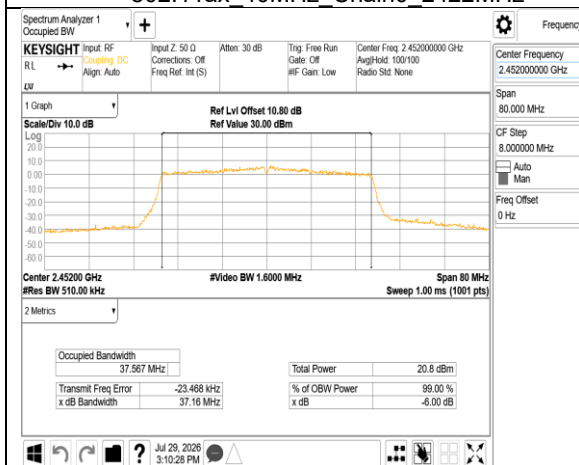
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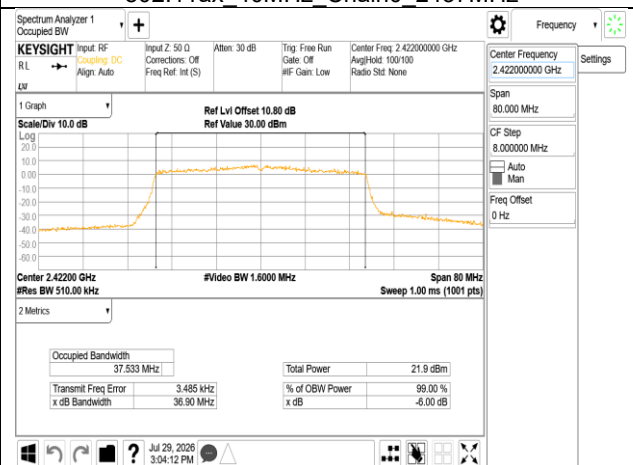
802.11ax 40MHz Chain0_2422MHz



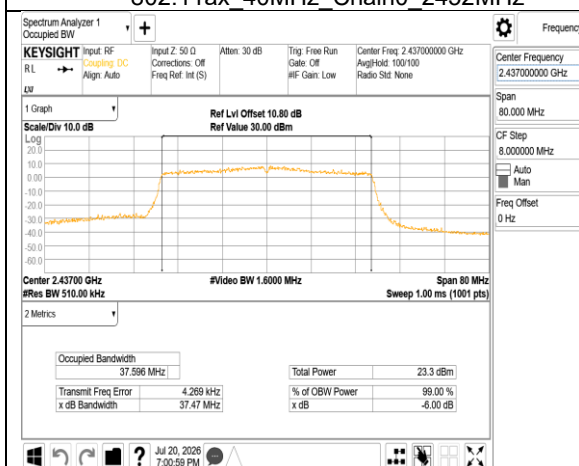
802.11ax 40MHz Chain0_2437MHz



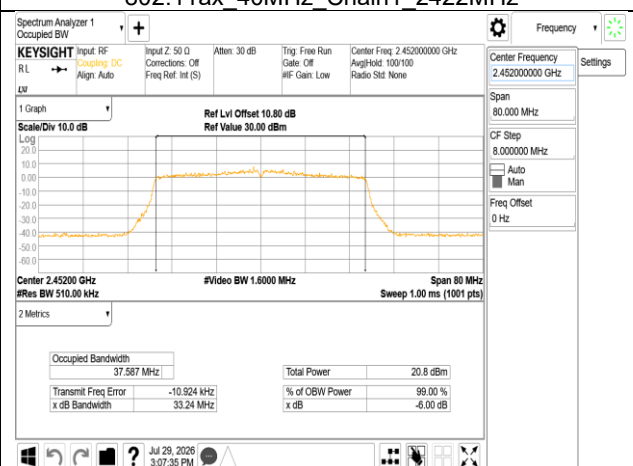
802.11ax 40MHz Chain0_2452MHz



802.11ax 40MHz Chain1_2422MHz



802.11ax 40MHz Chain1_2437MHz



802.11ax 40MHz Chain1_2452MHz

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7.2 Duty Cycle

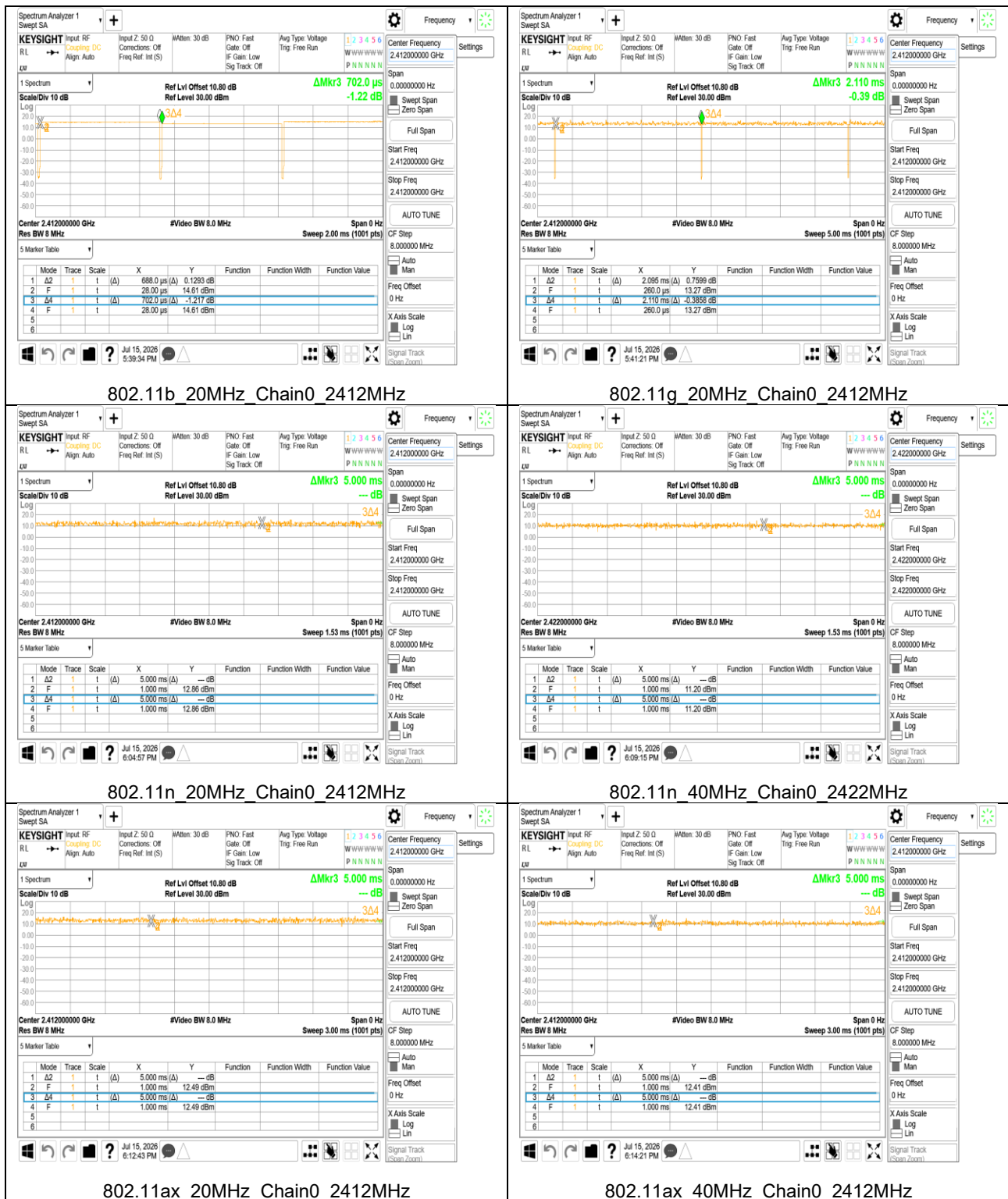
Mode	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11b	98.01	0.09	1.45	0.01
802.11g	99.29	0.03	0.48	0.01
802.11n_20	100.00	0.00	0.00	0.01
802.11n_40	100.00	0.00	0.00	0.01
802.11ax_20	100.00	0.00	0.00	0.01
802.11ax_40	100.00	0.00	0.00	0.01

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7.2.1 Duty Cycle test plots



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7.3 Maximum Output Power

802.11b_Ch0							
CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	17.5	115.08	20.61	30.00	PASS
6	2437	1	17.5	114.55	20.59	30.00	PASS
11	2462	1	17	112.72	20.52	30.00	PASS

802.11b_Ch0							
CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	17.5	61.91	17.92	30.00	PASS
6	2437	1	17.5	61.34	17.88	30.00	PASS
11	2462	1	17	54.29	17.35	30.00	PASS

802.11b_Ch1							
CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	17.5	113.24	20.54	30.00	PASS
6	2437	1	17.5	112.46	20.51	30.00	PASS
11	2462	1	17	109.90	20.41	30.00	PASS

802.11b_Ch1							
CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	17.5	61.34	17.88	30.00	PASS
6	2437	1	17.5	59.94	17.78	30.00	PASS
11	2462	1	17	53.67	17.30	30.00	PASS

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802.11b_2TX

CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (dBm)		Total Peak Output Power (mW)	Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1				
1	2412	1	17.5	20.78	20.38	228.82	23.59	30.00	PASS
6	2437	1	17.5	20.61	20.41	224.98	23.52	30.00	PASS
11	2462	1	17.5>17	20.35	19.88	205.67	23.13	30.00	PASS

802.11b_2TX

CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (dBm)		Total Avg. Output Power (mW)	Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1				
1	2412	1	17.5	18.14	17.73	124.38	20.95	30.00	PASS
6	2437	1	17.5	18.02	17.80	123.57	20.92	30.00	PASS
11	2462	1	17.5>17	17.67	17.44	113.87	20.56	30.00	PASS

802.11g_Ch0

CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	15	139.64	21.45	30.00	PASS
6	2437	6	15	140.28	21.47	30.00	PASS
10	2457	6	15	140.93	21.49	30.00	PASS
11	2462	6	13	91.41	19.61	30.00	PASS

802.11g_Ch0

CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	15	34.21	15.34	30.00	PASS
6	2437	6	15	33.97	15.31	30.00	PASS
10	2457	6	15	33.04	15.19	30.00	PASS
11	2462	6	13	21.83	13.39	30.00	PASS

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802.11g_Ch1

CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	15	143.55	21.57	30.00	PASS
6	2437	6	15	144.21	21.59	30.00	PASS
10	2457	6	15	135.83	21.33	30.00	PASS
11	2462	6	13	90.16	19.55	30.00	PASS

802.11g_Ch1

CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	15	33.04	15.19	30.00	PASS
6	2437	6	15	33.50	15.25	30.00	PASS
10	2457	6	15	32.67	15.14	30.00	PASS
11	2462	6	13	20.95	13.21	30.00	PASS

802.11g_2TX

CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (dBm)		Total Peak Output Power (mW)	Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1				
1	2412	6	15	25.77	25.07	698.94	28.44	30.00	PASS
6	2437	6	15	25.79	25.38	724.46	28.60	30.00	PASS
10	2457	6	15	21.56	21.35	279.68	24.47	30.00	PASS
11	2462	6	15>13	19.71	19.61	184.95	22.67	30.00	PASS

802.11g_2TX

CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (dBm)		Total Avg. Output Power (mW)	Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1				
1	2412	6	15	15.50	15.21	68.69	18.37	30.00	PASS
6	2437	6	15	15.54	15.15	68.56	18.36	30.00	PASS
10	2457	6	15	15.22	15.18	66.24	18.21	30.00	PASS
11	2462	6	15>13	13.46	13.26	43.38	16.37	30.00	PASS

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802.11n_HT20_Ch0

CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	15.5	146.22	21.65	30.00	PASS
6	2437	MCS0	15.5	146.89	21.67	30.00	PASS
10	2457	MCS0	15.5	149.28	21.74	30.00	PASS
11	2462	MCS0	13	83.95	19.24	30.00	PASS

802.11n_HT20_Ch0

CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	15.5	34.99	15.44	30.00	PASS
6	2437	MCS0	15.5	35.16	15.46	30.00	PASS
10	2457	MCS0	15.5	34.12	15.33	30.00	PASS
11	2462	MCS0	13	19.54	12.91	30.00	PASS

802.11n_HT20_Ch1

CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	15.5	143.55	21.57	30.00	PASS
6	2437	MCS0	15.5	144.88	21.61	30.00	PASS
10	2457	MCS0	15.5	143.55	21.57	30.00	PASS
11	2462	MCS0	13	81.47	19.11	30.00	PASS

802.11n_HT20_Ch1

CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	15.5	33.96	15.31	30.00	PASS
6	2437	MCS0	15.5	34.12	15.33	30.00	PASS
10	2457	MCS0	15.5	33.57	15.26	30.00	PASS
11	2462	MCS0	13	19.19	12.83	30.00	PASS

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802.11n_HT20_2TX

CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (dBm)		Total Peak Output Power (mW)	Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1				
1	2412	MCS0	15.5	21.96	21.55	299.93	24.77	30.00	PASS
6	2437	MCS0	15.5	22.01	21.51	300.43	24.78	30.00	PASS
10	2457	MCS0	15.5	21.99	21.86	311.59	24.94	30.00	PASS
11	2462	MCS0	15.5>13	19.49	19.32	174.43	22.42	30.00	PASS

802.11n_HT20_2TX

CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (dBm)		Total Avg. Output Power (mW)	Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1				
1	2412	MCS0	15.5	15.62	15.29	70.28	18.47	30.00	PASS
6	2437	MCS0	15.5	15.57	15.36	70.41	18.48	30.00	PASS
10	2457	MCS0	15.5	15.48	15.33	69.44	18.42	30.00	PASS
11	2462	MCS0	15.5>13	13.05	12.92	39.77	16.00	30.00	PASS

802.11n_HT40_Ch0

CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	12	80.17	19.04	30.00	PASS
4	2427	MCS0	13.5	103.28	20.14	30.00	PASS
6	2437	MCS0	14.5	140.93	21.49	30.00	PASS
7	2442	MCS0	12	77.98	18.92	30.00	PASS
8	2447	MCS0	12	73.62	18.67	30.00	PASS
9	2452	MCS0	11	60.53	17.82	30.00	PASS

802.11n_HT40_Ch0

CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	12	19.36	12.87	30.00	PASS
4	2427	MCS0	13.5	25.76	14.11	30.00	PASS
6	2437	MCS0	14.5	34.04	15.32	30.00	PASS
7	2442	MCS0	12	18.75	12.73	30.00	PASS
8	2447	MCS0	12	17.91	12.53	30.00	PASS
9	2452	MCS0	11	14.72	11.68	30.00	PASS

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802.11n_HT40_Ch1

CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	12	79.62	19.01	30.00	PASS
4	2427	MCS0	13.5	106.66	20.28	30.00	PASS
6	2437	MCS0	14.5	135.83	21.33	30.00	PASS
7	2442	MCS0	12	72.28	18.59	30.00	PASS
8	2447	MCS0	12	72.28	18.59	30.00	PASS
9	2452	MCS0	11	57.02	17.56	30.00	PASS

802.11n_HT40_Ch1

CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	12	18.79	12.74	30.00	PASS
4	2427	MCS0	13.5	25.23	14.02	30.00	PASS
6	2437	MCS0	14.5	33.57	15.26	30.00	PASS
7	2442	MCS0	12	18.37	12.64	30.00	PASS
8	2447	MCS0	12	17.82	12.51	30.00	PASS
9	2452	MCS0	11	14.32	11.56	30.00	PASS

802.11n_HT40M_2TX

CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (dBm)		Total Peak Output Power (mW)	Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1				
3	2422	MCS0	14.5>12	19.34	19.21	169.27	22.29	30.00	PASS
4	2427	MCS0	14.5>13	20.42	20.31	217.55	23.38	30.00	PASS
6	2437	MCS0	14.5	21.46	21.23	272.70	24.36	30.00	PASS
7	2442	MCS0	14.5>12	18.98	18.66	152.52	21.83	30.00	PASS
8	2447	MCS0	14.5>12	18.79	18.67	149.30	21.74	30.00	PASS
9	2452	MCS0	15>11	18.01	17.60	120.79	20.82	30.00	PASS

802.11n_HT40M_2TX

CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (dBm)		Total Avg. Output Power (mW)	Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1				
3	2422	MCS0	14.5>12	13.05	12.78	39.15	15.93	30.00	PASS
4	2427	MCS0	14.5>13	14.23	14.06	51.95	17.16	30.00	PASS
6	2437	MCS0	14.5	15.41	15.26	68.33	18.35	30.00	PASS
7	2442	MCS0	14.5>12	12.76	12.69	37.46	15.74	30.00	PASS
8	2447	MCS0	14.5>12	12.65	12.61	36.65	15.64	30.00	PASS
9	2452	MCS0	15>11	11.76	11.65	29.62	14.72	30.00	PASS

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802.11ax_HE20_Ch0

CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	14	147.91	21.70	30.00	PASS
6	2437	MCS0	14	146.55	21.66	30.00	PASS
10	2457	MCS0	14.5	169.43	22.29	30.00	PASS
11	2462	MCS0	12	89.54	19.52	30.00	PASS

802.11ax_HE20_Ch0

CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	14	27.48	14.39	30.00	PASS
6	2437	MCS0	14	27.42	14.38	30.00	PASS
10	2457	MCS0	14.5	27.67	14.42	30.00	PASS
11	2462	MCS0	12	16.14	12.08	30.00	PASS

802.11ax_HE20_Ch1

CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	14.5	157.04	21.96	30.00	PASS
6	2437	MCS0	14.5	154.17	21.88	30.00	PASS
10	2457	MCS0	14.5	161.06	22.07	30.00	PASS
11	2462	MCS0	12	88.51	19.47	30.00	PASS

802.11ax_HE20_Ch1

CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	14.5	27.35	14.37	30.00	PASS
6	2437	MCS0	14.5	27.23	14.35	30.00	PASS
10	2457	MCS0	14.5	27.29	14.36	30.00	PASS
11	2462	MCS0	12	16.00	12.04	30.00	PASS

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CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (dBm)		Total Peak Output Power (mW)	Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1				
1	2412	MCS0	14.5	22.13	21.95	319.98	25.05	30.00	PASS
6	2437	MCS0	14.5	22.08	21.81	313.14	24.96	30.00	PASS
10	2457	MCS0	14.5	22.37	22.13	335.89	25.26	30.00	PASS
11	2462	MCS0	14.5>12	19.65	19.53	182.00	22.60	30.00	PASS

802.11ax_HE20_2TX

CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (dBm)		Total Avg. Output Power (mW)	Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1				
1	2412	MCS0	14.5	14.67	14.29	56.16	17.49	30.00	PASS
6	2437	MCS0	14.5	14.67	14.26	55.98	17.48	30.00	PASS
10	2457	MCS0	14.5	14.51	14.44	56.05	17.49	30.00	PASS
11	2462	MCS0	14.5>12	12.12	12.08	32.44	15.11	30.00	PASS

802.11ax_HE40_Ch0

CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	12	82.79	19.18	30.00	PASS
4	2427	MCS0	14	128.53	21.09	30.00	PASS
6	2437	MCS0	14	129.42	21.12	30.00	PASS
7	2442	MCS0	13	102.33	20.10	30.00	PASS
8	2447	MCS0	12	79.80	19.02	30.00	PASS
9	2452	MCS0	11	72.78	18.62	30.00	PASS

802.11ax_HE40_Ch0

CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	12	17.82	12.51	30.00	PASS
4	2427	MCS0	14	26.67	14.26	30.00	PASS
6	2437	MCS0	14	27.67	14.42	30.00	PASS
7	2442	MCS0	13	21.53	13.33	30.00	PASS
8	2447	MCS0	12	17.14	12.34	30.00	PASS
9	2452	MCS0	11	13.52	11.31	30.00	PASS

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802.11ax_HE40_Ch1

CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	12	75.34	18.77	30.00	PASS
4	2427	MCS0	14	129.12	21.11	30.00	PASS
6	2437	MCS0	14	129.72	21.13	30.00	PASS
7	2442	MCS0	12	101.16	20.05	30.00	PASS
8	2447	MCS0	12	77.98	18.92	30.00	PASS
9	2452	MCS0	11	66.37	18.22	30.00	PASS

802.11ax_HE40_Ch1

CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	12	17.34	12.39	30.00	PASS
4	2427	MCS0	14	26.18	14.18	30.00	PASS
6	2437	MCS0	14	27.23	14.35	30.00	PASS
7	2442	MCS0	12	21.13	13.25	30.00	PASS
8	2447	MCS0	12	16.98	12.30	30.00	PASS
9	2452	MCS0	11	13.40	11.27	30.00	PASS

802.11ax_HE40_2TX

CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (dBm)		Total Peak Output Power (mW)	Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1				
3	2422	MCS0	14>12	19.25	18.89	161.59	22.08	30.00	PASS
4	2427	MCS0	14	21.16	21.18	261.84	24.18	30.00	PASS
6	2437	MCS0	14	21.27	21.13	263.69	24.21	30.00	PASS
7	2442	MCS0	14>13	20.15	20.05	204.67	23.11	30.00	PASS
8	2447	MCS0	14>12	19.06	18.98	159.61	22.03	30.00	PASS
9	2452	MCS0	14>11	18.66	18.26	140.44	21.47	30.00	PASS

802.11ax_HE40_2TX

CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (dBm)		Total Avg. Output Power (mW)	Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1				
3	2422	MCS0	14>12	12.61	12.44	35.78	15.54	30.00	PASS
4	2427	MCS0	14	14.31	14.24	53.52	17.29	30.00	PASS
6	2437	MCS0	14	14.51	14.34	55.41	17.44	30.00	PASS
7	2442	MCS0	14>13	13.39	13.27	43.06	16.34	30.00	PASS
8	2447	MCS0	14>12	12.37	12.32	34.32	15.36	30.00	PASS
9	2452	MCS0	14>11	11.38	11.25	27.08	14.33	30.00	PASS

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7.3.1 EIRP

802.11b_Ch0

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	1	17.92	2.87	20.79	36	PASS
6	2437	1	17.88	2.87	20.75	36	PASS
11	2462	1	17.35	2.87	20.22	36	PASS

802.11b_Ch1

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	1	17.88	2.30	20.18	36	PASS
6	2437	1	17.78	2.30	20.08	36	PASS
11	2462	1	17.30	2.30	19.60	36	PASS

802.11b_2TX

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Total Avg. Output Power (mW)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			Ch0	Ch1						
1	2412	1	18.14	17.73	20.95	124.38	2.59	23.54	36	PASS
6	2437	1	18.02	17.80	20.92	123.57	2.59	23.51	36	PASS
11	2462	1	17.67	17.44	20.56	113.87	2.59	23.16	36	PASS

802.11g_Ch0

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	6	15.34	2.87	18.21	36	PASS
6	2437	6	15.31	2.87	18.18	36	PASS
10	2457	6	15.19	2.87	18.06	36	PASS
11	2462	6	13.39	2.87	16.26	36	PASS

802.11g_Ch1

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	6	15.19	2.30	17.49	36	PASS
6	2437	6	15.25	2.30	17.55	36	PASS
10	2457	6	15.14	2.30	17.44	36	PASS
11	2462	6	13.21	2.30	15.51	36	PASS

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802.11g_2TX

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Total Avg. Output Power (mW)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			Ch0	Ch1						
1	2412	6	15.50	15.21	18.37	68.69	2.59	20.96	36	PASS
6	2437	6	15.54	15.15	18.36	68.56	2.59	20.95	36	PASS
10	2457	6	15.22	15.18	18.21	66.24	2.59	20.81	36	PASS
11	2462	6	13.46	13.26	16.37	43.38	2.59	18.97	36	PASS

802.11n_HT20_Ch0

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	15.44	2.87	18.31	36	PASS
6	2437	MCS0	15.46	2.87	18.33	36	PASS
10	2457	MCS0	15.33	2.87	18.20	36	PASS
11	2462	MCS0	12.91	2.87	15.78	36	PASS

802.11n_HT20_Ch1

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	15.31	2.30	17.61	36	PASS
6	2437	MCS0	15.33	2.30	17.63	36	PASS
10	2457	MCS0	15.26	2.30	17.56	36	PASS
11	2462	MCS0	12.83	2.30	15.13	36	PASS

802.11n_HT20_2TX

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Total Avg. Output Power (mW)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			Ch0	Ch1						
1	2412	MCS0	15.62	15.29	18.47	70.28	2.59	21.06	36	PASS
6	2437	MCS0	15.57	15.36	18.48	70.41	2.59	21.07	36	PASS
10	2457	MCS0	15.48	15.33	18.42	69.44	2.59	21.01	36	PASS
11	2462	MCS0	13.05	12.92	16.00	39.77	2.59	18.59	36	PASS

802.11n_HT40_Ch0

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	12.87	2.87	15.74	36	PASS
4	2427	MCS0	14.11	2.87	16.98	36	PASS
6	2437	MCS0	15.32	2.87	18.19	36	PASS
7	2442	MCS0	12.73	2.87	15.60	36	PASS
8	2447	MCS0	12.53	2.87	15.40	36	PASS
9	2452	MCS0	11.68	2.87	14.55	36	PASS

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802.11n_HT40_Ch1

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	12.74	2.30	15.04	36	PASS
4	2427	MCS0	14.02	2.30	16.32	36	PASS
6	2437	MCS0	15.26	2.30	17.56	36	PASS
7	2442	MCS0	12.64	2.30	14.94	36	PASS
8	2447	MCS0	12.51	2.30	14.81	36	PASS
9	2452	MCS0	11.56	2.30	13.86	36	PASS

802.11n_HT40M_2TX

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Total Avg. Output Power (mW)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			Ch0	Ch1						
3	2422	MCS0	13.05	12.78	15.93	39.15	2.59	18.52	36	PASS
4	2427	MCS0	14.23	14.06	17.16	51.95	2.59	19.75	36	PASS
6	2437	MCS0	15.41	15.26	18.35	68.33	2.59	20.94	36	PASS
7	2442	MCS0	12.76	12.69	15.74	37.46	2.59	18.33	36	PASS
8	2447	MCS0	12.65	12.61	15.64	36.65	2.59	18.23	36	PASS
9	2452	MCS0	11.76	11.65	14.72	29.62	2.59	17.31	36	PASS

802.11ax_HE20_Ch0

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	14.39	2.87	17.26	36	PASS
6	2437	MCS0	14.38	2.87	17.25	36	PASS
10	2457	MCS0	14.42	2.87	17.29	36	PASS
11	2462	MCS0	12.08	2.87	14.95	36	PASS

802.11ax_HE20_Ch1

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	14.37	2.30	16.67	36	PASS
6	2437	MCS0	14.35	2.30	16.65	36	PASS
10	2457	MCS0	14.36	2.30	16.66	36	PASS
11	2462	MCS0	12.04	2.30	14.34	36	PASS

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802.11ax_HE20_2TX

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Total Avg. Output Power (mW)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			Ch0	Ch1						
1	2412	MCS0	14.67	14.29	17.49	56.16	2.59	20.09	36	PASS
6	2437	MCS0	14.67	14.26	17.48	55.98	2.59	20.07	36	PASS
10	2457	MCS0	14.51	14.44	17.49	56.05	2.59	20.08	36	PASS
11	2462	MCS0	12.12	12.08	15.11	32.44	2.59	17.70	36	PASS

802.11ax_HE40_Ch0

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	12.51	2.87	15.38	36	PASS
4	2427	MCS0	14.26	2.87	17.13	36	PASS
6	2437	MCS0	14.42	2.87	17.29	36	PASS
7	2442	MCS0	13.33	2.87	16.20	36	PASS
8	2447	MCS0	12.34	2.87	15.21	36	PASS
9	2452	MCS0	11.31	2.87	14.18	36	PASS

802.11ax_HE40_Ch1

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	12.39	2.30	14.69	36	PASS
4	2427	MCS0	14.18	2.30	16.48	36	PASS
6	2437	MCS0	14.35	2.30	16.65	36	PASS
7	2442	MCS0	13.25	2.30	15.55	36	PASS
8	2447	MCS0	12.30	2.30	14.60	36	PASS
9	2452	MCS0	11.27	2.30	13.57	36	PASS

802.11ax_HE40_2TX

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Total Avg. Output Power (mW)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			Ch0	Ch1						
3	2422	MCS0	12.61	12.44	15.54	35.78	2.59	18.13	36	PASS
4	2427	MCS0	14.31	14.24	17.29	53.52	2.59	19.88	36	PASS
6	2437	MCS0	14.51	14.34	17.44	55.41	2.59	20.03	36	PASS
7	2442	MCS0	13.39	13.27	16.34	43.06	2.59	18.94	36	PASS
8	2447	MCS0	12.37	12.32	15.36	34.32	2.59	17.95	36	PASS
9	2452	MCS0	11.38	11.25	14.33	27.08	2.59	16.92	36	PASS

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7.4 Maximum Power Spectral Density

POWER DENSITY 802.11b MODE					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-5.61	-5.72	-2.65	8.00	PASS
2437	-5.55	-5.83	-2.68	8.00	PASS
2462	-5.15	-5.48	-2.30	8.00	PASS

POWER DENSITY 802.11g MODE					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-11.39	-10.66	-8.00	8.00	PASS
2437	-10.79	-11.08	-7.92	8.00	PASS
2462	-12.65	-13.73	-10.15	8.00	PASS

POWER DENSITY 802.11n HT20 MODE					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-9.98	-9.72	-6.84	8.00	PASS
2437	-10.19	-9.03	-6.56	8.00	PASS
2462	-11.39	-11.68	-8.52	8.00	PASS

POWER DENSITY 802.11n HT40 MODE					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422	-13.43	-14.5	-10.92	8.00	PASS
2437	-13.03	-13.66	-10.32	8.00	PASS
2452	-16.05	-15.8	-12.91	8.00	PASS

POWER DENSITY 802.11ax HE20 MODE					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-11.4	-11.73	-8.55	8.00	PASS
2437	-9.79	-10.83	-7.27	8.00	PASS
2462	-13.66	-13.72	-10.68	8.00	PASS

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POWER DENSITY 802.11ax HE40 MODE					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422	-14.21	-15.73	-11.89	8.00	PASS
2437	-12.42	-14.47	-10.31	8.00	PASS
2452	-16.5	-17.06	-13.76	8.00	PASS

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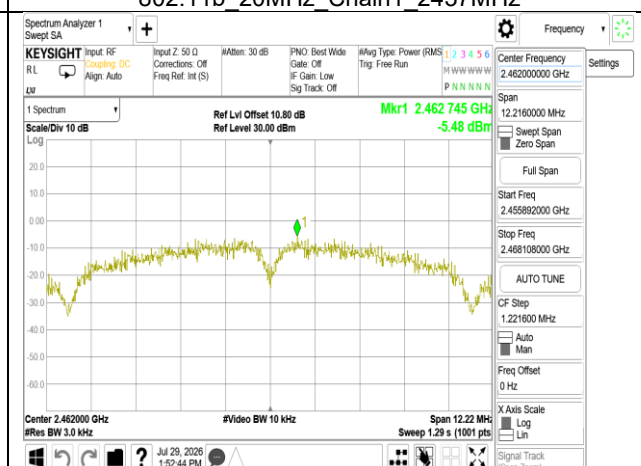
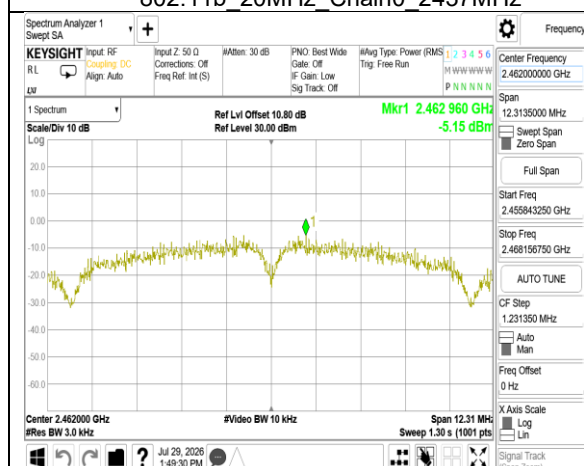
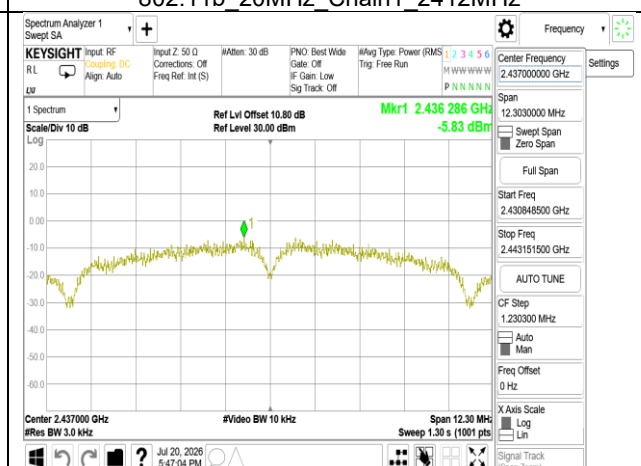
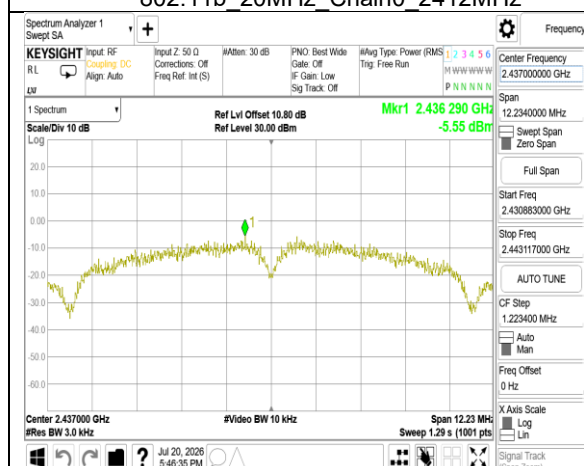
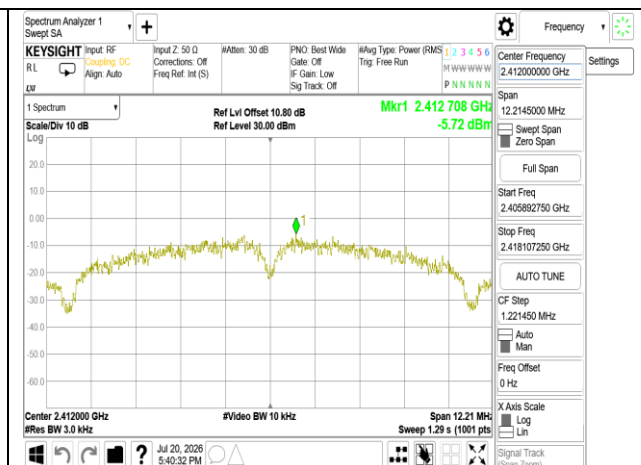
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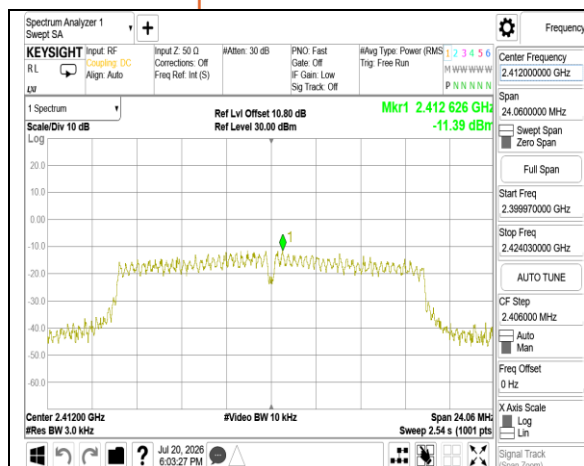
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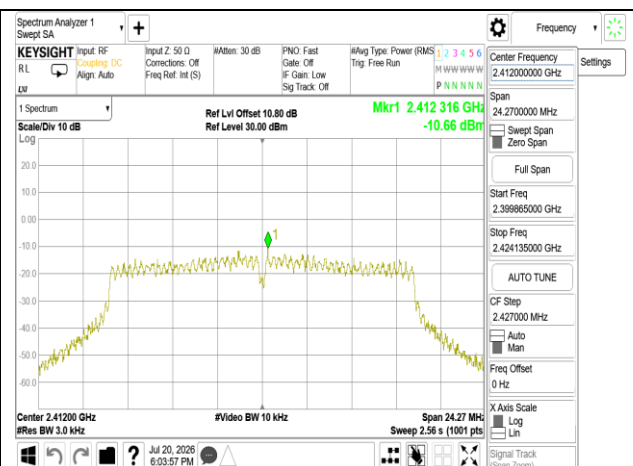
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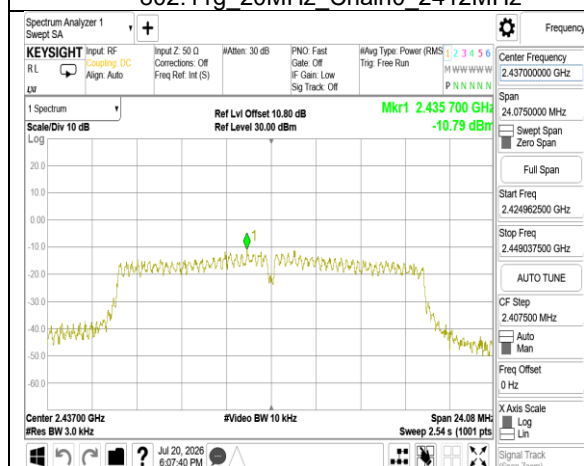
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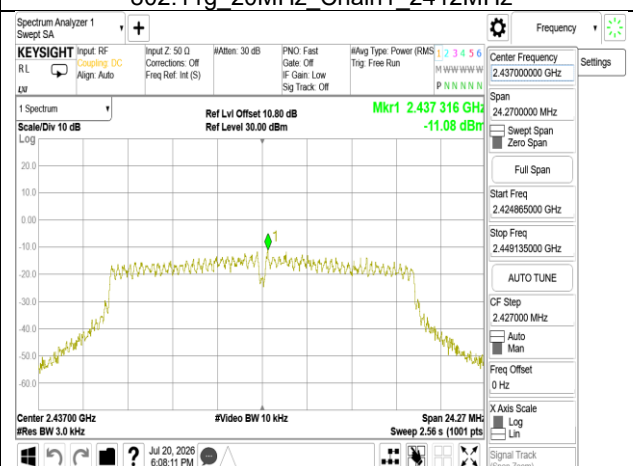
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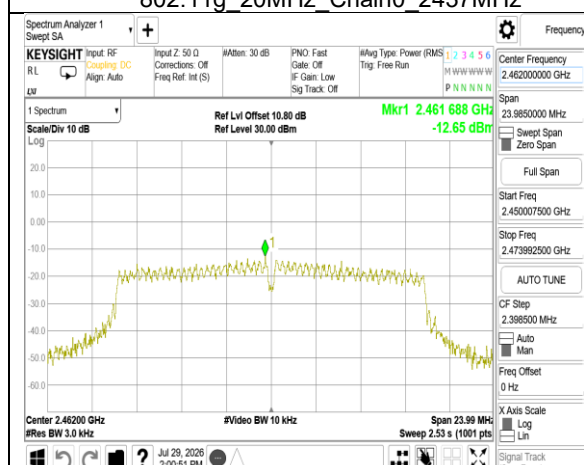
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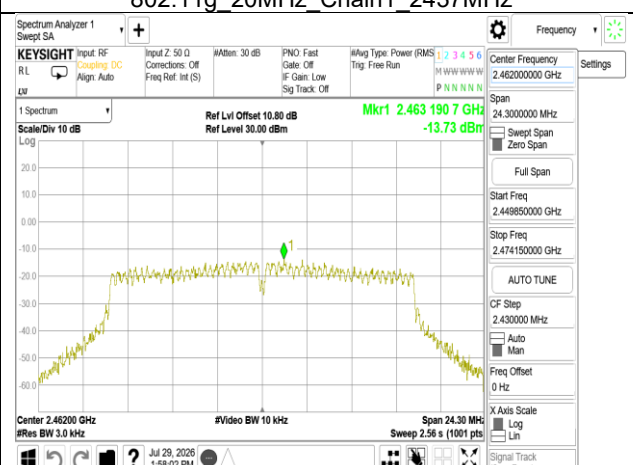
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802.11g_20MHz_Chain1_2437MHz



802.11g_20MHz_Chain0_2462MHz

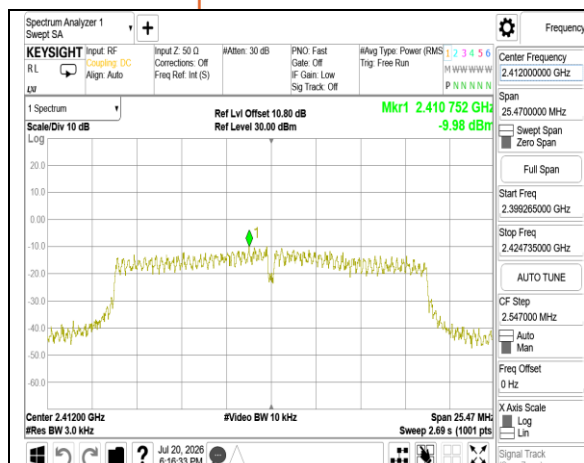


802.11g_20MHz_Chain1_2462MHz

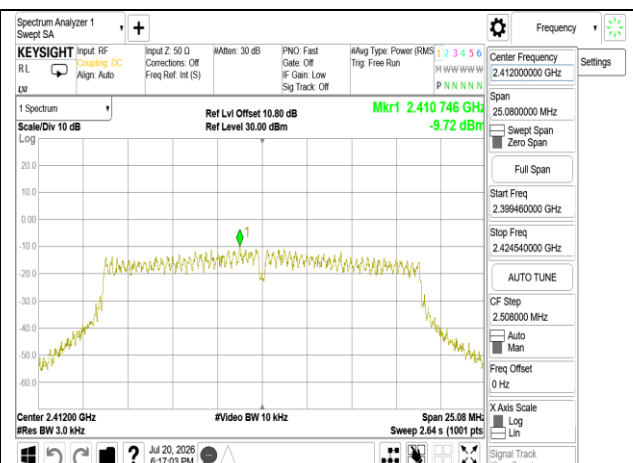
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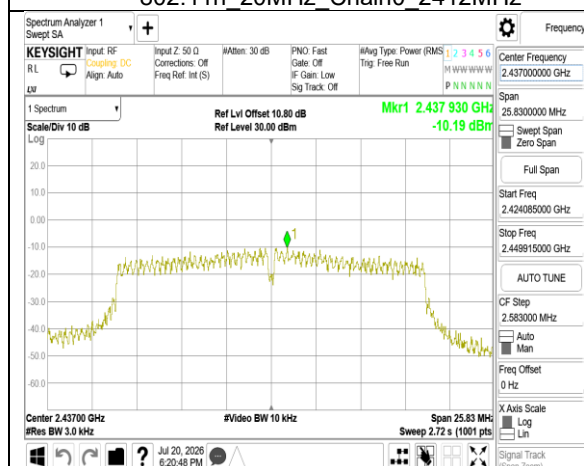
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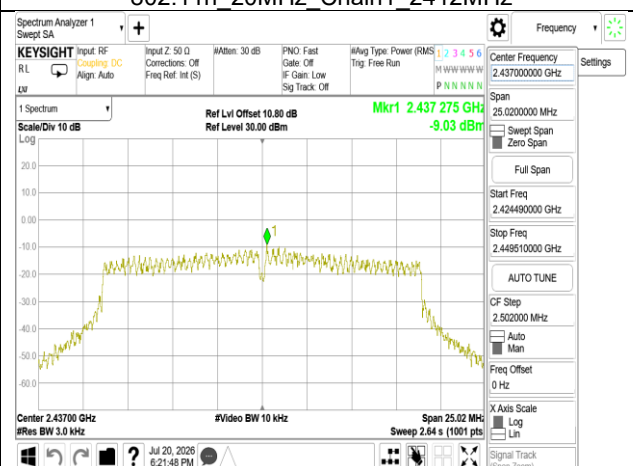
802.11n_20MHz_Chain0_2412MHz



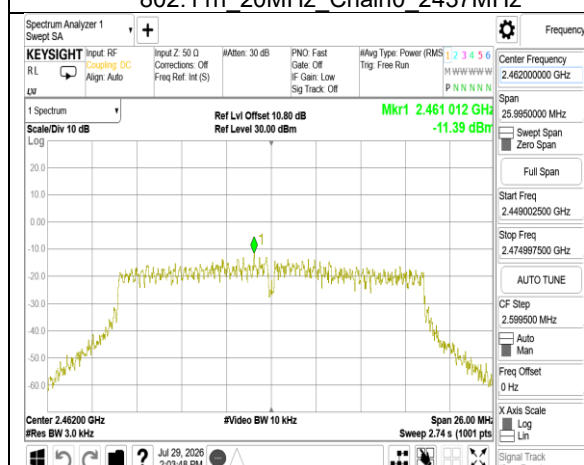
802.11n_20MHz_Chain1_2412MHz



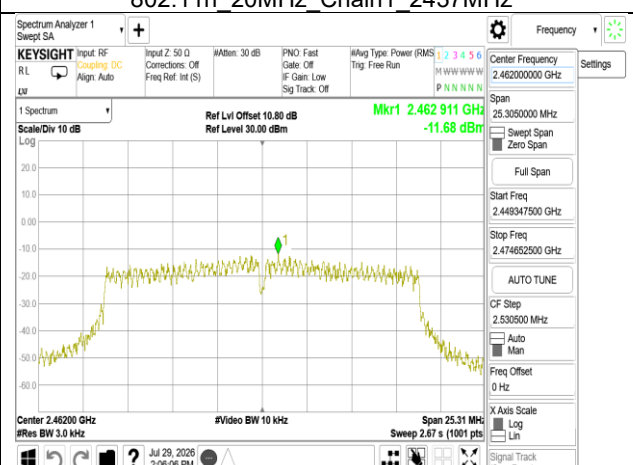
802.11n_20MHz_Chain0_2437MHz



802.11n_20MHz_Chain1_2437MHz



802.11n_20MHz_Chain0_2462MHz



802.11n_20MHz_Chain1_2462MHz

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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