

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

FCC Applicant: ASUSTeK COMPUTER INC.
1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan

FCC Manufacturer: ASUSTeK COMPUTER INC.
1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan

Product Name: ASUS Phone(Mobile Phone)

Brand Name: ASUS

Model No.: ASUSAI2501E

Family Model No.: ASUSAI2501D

Model Difference: Refer to section1.2

Report Number: TERF2407002109ER

FCC ID MSQAI2501

Date of EUT Received: July 01, 2024

Date of Test: July 17, 2024 ~ September 19, 2024

Issue Date: November 07, 2024

Approved By _____

Marcus Tseng

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 C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.247.

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
TERF2407002109ER	00	Original	November 07, 2024	Yuri Tsai	

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.
- 2、Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received. And are assessed as electrically identical in RF characteristics, therefore, no further assessment required for the variant(s).

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	ASUS Phone(Mobile Phone)
Brand Name:	ASUS
Model No.:	ASUSAI2501E
Family Model No.:	ASUSAI2501D
Hardware Version:	R2.0C
Firmware Version:	35.1400.1400.10
EUT Series No.:	S7AIOCN13304NN6
Power Supply:	7.8 Vdc from Battery
Test Software (Name/Version)	QRCT/4.0.1.105.1

1.2 Model Difference

Model Name	ASUSAI2501D	ASUSAI2501E
3rd Camera	5MP Macro	32 MP Tele
LED Light	mini LED (85 pcs)	mini LED (648 pcs)
Memory	12/256, 12/512, 16/512	16/512, 24/1TB
Side USB port	Y	
Air trigger	Y	
Power	5800mAh, 65W	
Refresh Rate	185Hz	

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1.3 RF Specification

WLAN 2.4GHz

Wi-Fi	Frequency Range	Channels	Rated Power (dBm)		Modulation Technology
			Peak	Avg.	
802.11b	2412~2462	11	27.84	24.85	DSSS
802.11g	2412~2462	11	29.85	23.95	OFDM
802.11n_HT20	2412~2462	11	29.55	23.38	OFDM
802.11n_HT40	2422~2452	7	28.69	21.46	OFDM
802.11ax_HE20	2412~2462	11	29.76	23.40	OFDMA
802.11ax_HE40	2422~2452	7	28.74	21.52	OFDMA
802.11be_EHT20	2412~2462	11	29.76	23.44	OFDMA
802.11be_EHT40	2422~2452	7	28.78	21.60	OFDMA
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			
		4096QAM, 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA in 802.11be			
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			
		802.11be_EHT20: up to 344.1Mbps			
		802.11be_EHT40: up to 688.2Mbps			

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1.4 Antenna Designation

Antenna Type	Antenna No.	Freq. (MHz)	Peak Antenna Gain (dBi)
PIFA	ANT4	2412-2462	-3.69
	ANT5	2412-2462	-2.95

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. Antenna information is provided by the applicant.

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1.5 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247
 FCC KDB 558074 D01 15.247 Meas Guidance v05r02
 FCC KDB 662911 D01 Multiple Transmitter Output v02r01
 ANSI C63.10:2013

1.6 Test Facility

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

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

1.7 Special Accessories

There are no special accessories used while test was conducted.

1.8 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 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.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

2.3.3 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

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2.4 Measurement Results Explanation Example

2.4.1 Radiated Emission Test Sites 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.

2.4.2 For all conducted test items:

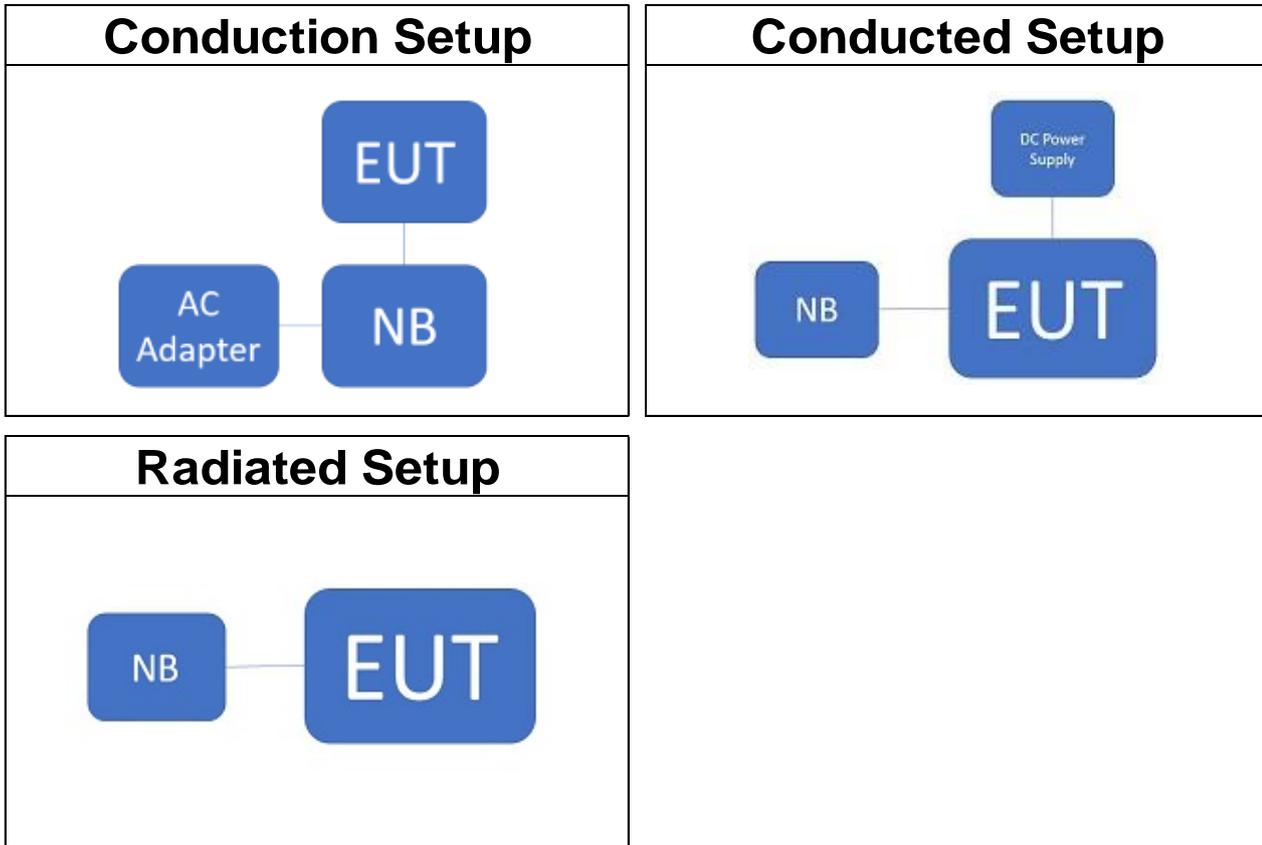
The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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2.5 Test Configuration



2.6 Control Unit(s)

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	L480	PF-1M4D8L 19-/03	N/A	N/A
AC Adapter	Lenovo	ADLX45YCC3A	N/A	N/A	N/A
Type-C to USB Cable	Xiaomi	SJX10ZM	N/A	N/A	N/A
Conducted Emission Test Site: Conducted 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Type-C to USB Cable	PowerSync	CUBCVARA0010	N/A	N/A	N/A
Notebook	HP	HSN-Q35C-4	5CD238GDV5	N/A	N/A
Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	L480	PF-1M4D8L 19-/03	N/A	N/A
Type-C to USB Cable	Xiaomi	SJX10ZM	N/A	N/A	N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a)	AC Power Line Conducted Emission	Compliant
§15.247(b) (3)	Peak Output Power	Compliant
§15.247(a)(2)	Emission Bandwidth	Compliant
§15.209 §15.247(d)	Conducted Band Edge and Spurious Emission	Compliant
§15.209 §15.247(d)	Radiated Band Edge and Spurious Emission	Compliant
§15.205	Restricted Bands	Compliant
§15.247(e)	Power Spectral Density	Compliant
§15.203	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

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

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4.2 The Worst Test Modes and Channel Details

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. Investigation has been done on all the possible configurations for searching the worst case.

The given UE is pre-scanned among below modes.

Modulation		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
V	802.11 be	V	Ch0	V	Ch1		Ch2		Ch3		1TX	V	2TX

4. 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	1,2,3,4,6,7,8,9,10,11	OFDM	6	2TX
802.11n_HT20	1 to 11	1,2,3,4,6,8,9,10,11	OFDM	MCS0	2TX
802.11n_HT40	3 to 9	3,4,5,6,7,8,9	OFDM	MCS0	2TX

CONDUCTED TEST						
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
802.11ax_HE20	1 to 11	1,2,3,4,6,8,9,10,11	OFDMA	FULL RU	MCS0	2TX
802.11ax_HE40	3 to 9	3,4,5,6,7,8,9	OFDMA	FULL RU	MCS0	2TX

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CONDUCTED TEST						
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
802.11be_EHT20	1 to 11	1,2,3,4,6,8,9,10,11	OFDMA	FULL RU 26/0,26/8 52/37,52/40 106/53,106/54 52+26MRU1,MRU3 106+26MRU1,MRU2	MCS0	2TX
802.11be_EHT40	3 to 9	3,4,5,6,7,8,9	OFDMA	FULL RU	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

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	DSSS	1	2TX
802.11g	1 to 11	1,2,3,4,6,7,8,9,10,11	OFDM	6	2TX

TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
802.11be_EHT20	1 to 11	1,2,3,4,6,8,9,10,11	OFDMA	FULL RU 26/0,26/8 52/37,52/40 106/53,106/54 52+26MRU1,MRU3 106+26MRU1,MRU2	MCS0	2TX
802.11be_EHT40	3 to 9	3 to 9	OFDMA	FULL RU	MCS0	2TX

Note:

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.

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 1.54 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	+/- 0.6 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	1.89 dB	9kHz~30MHz
	+/-	4.15 dB	30MHz - 1000MHz
	+/-	3.43 dB	1GHz - 18GHz
	+/-	3.86 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	1.89 dB	9kHz~30MHz
	+/-	4.02 dB	30MHz - 1000MHz
	+/-	3.43 dB	1GHz - 18GHz
	+/-	3.86 dB	18GHz - 40GHz
Radiated Spurious Emission	+/-	2 dB	33GHz-50GHz
	+/-	1.59 dB	50GHz-60GHz
	+/-	1.7 dB	60GHz-90GHz
	+/-	1.64 dB	90GHz-140GHz
	+/-	3.83 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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6 MEASUREMENT EQUIPMENT USED

6.1 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Coaxial Cables	EMC Instruments Corp.	EMCCFD300-BM-BM-3000	161207	06/22/2024	06/21/2025
EMI Test Receiver	R&S	ESCI 7	100759	08/28/2024	08/27/2025
LISN	SCHWARZBECK	NSLK 8127	1040	09/06/2023	09/05/2024
LISN	SCHWARZBECK	NSLK 8127	1041	10/26/2023	10/25/2024
Pulse Limiter	SCHWARZBECK	VTSD 9561F-N	793	06/22/2024	06/21/2025
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

6.2 Conducted Measurement

Conducted Emission Test Site: Conducted 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Attenuator	Mini-Circuits	BW-S10W2+	1	12/12/2023	12/11/2024
DC Block	Mini-Circuits	BLK-18-S+	10	12/12/2023	12/11/2024
DC Power Supply	Agilent	E3640A	MY52410006	01/02/2024	01/01/2025
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071571	06/04/2024	06/03/2025
Power Meter	Anritsu	ML2496A	1242004	10/24/2023	10/23/2024
Power Sensor	Anritsu	MA2411B	1207365	10/24/2023	10/23/2024
Power Sensor	Anritsu	MA2411B	1207368	10/24/2023	10/23/2024
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R

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6.3 Radiated Measurement

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
4G High Pass Filter	WI	WHKX4.0	22	12/12/2023	12/11/2024
Attenuator	Mini-Circuits	BW-S10W2+	16	12/12/2023	12/11/2024
Band Reject Filter 2400-2483.5	EWT	EWT-54-0038	M2	12/12/2023	12/11/2024
Bi-log Antenna	SCHWARZBECK	VULB9168	378	08/09/2024	08/08/2025
Coaxial Cables	EMCI+Huber Suhner	EMC107-SM-SM- 1000+EMC107-SM- SM-1500+EMC107- SM-SM- 8000+SUCOFLEX 104PEA	RX Cable 9K-18G (221110+221106+22 1212+MY4251/4PEA)	08/31/2023	08/30/2024
Coaxial Cables	Huber Suhner	SUCOFLEX 102	RX Cable 18G-40G MY2630/2+805062/ 2	08/31/2023	08/30/2024
EMI Test Receiver	R&S	ESR 7	102525	02/17/2024	02/16/2025
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY63440386	02/06/2024	02/05/2025
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	07/10/2024	07/09/2025
Horn Antenna	SCHWARZBECK	BBHA9120D	1441	09/23/2023	09/22/2024
Loop Antenna	COM-POWER	AL-130R	10160104	12/04/2023	12/03/2024
Pre-Amplifier	EMCI	EMC118A45SEE	980868	08/31/2023	08/30/2024
Pre-Amplifier	EMCI	EMC184045B	980135	08/31/2023	08/30/2024
Pre-Amplifier	HP	8447D	2944A07676	08/31/2023	08/30/2024
Site Cal	SGS	SAC 3	N/A	08/31/2023	08/30/2024
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

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

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7 CONDUCTED EMISSION TEST

7.1 Standard Applicable

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

Frequency range MHz	Limits (dBuV)	
	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

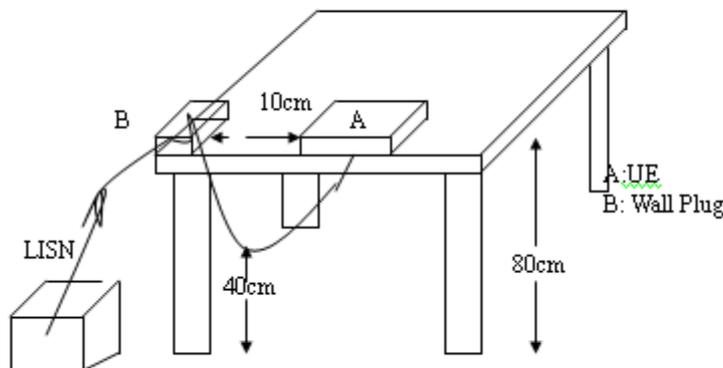
Note

- 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.

7.2 EUT Setup:

- The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
- The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
- The LISN was connected with 120Vac/60Hz power source.

7.3 Test Setup



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7.4 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all phases of power being supplied by given UE are completed

7.5 Measurement Result

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closest to the limit.

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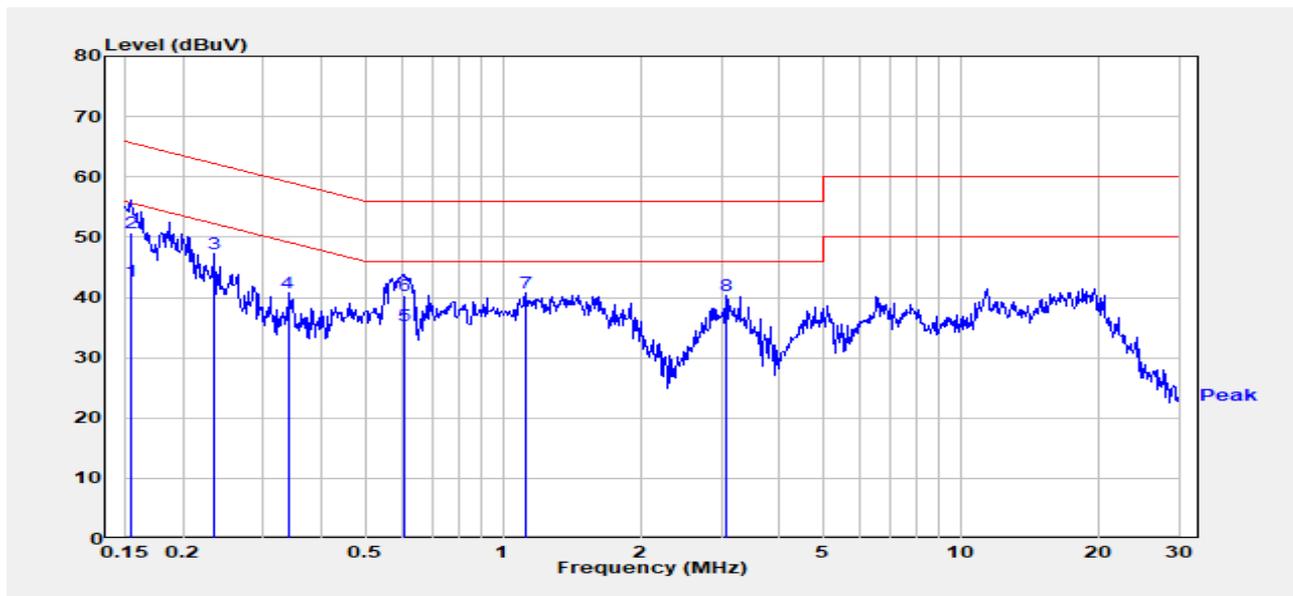
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :TERF2407002109ER
 Operation Mode :WLAN 2.4G
 Power :120V/60Hz
 Probe :L
 Note: :

Test Site :Conduction 1
 Test Date :2024-09-04
 Temp./Humi. :23.7°C/64%
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V	Limit dB μ V	Margin dB
0.154	Average	32.50	10.13	42.63	55.78	-13.15
0.154	QP	40.50	10.13	50.63	65.78	-15.15
0.234	Peak	37.11	10.13	47.25	62.30	-15.06
0.339	Peak	30.68	10.15	40.83	59.22	-18.40
0.611	Average	25.20	10.18	35.38	46.00	-10.62
0.611	QP	30.10	10.18	40.28	56.00	-15.72
1.123	Peak	30.47	10.20	40.67	56.00	-15.33
3.090	Peak	30.17	10.26	40.43	56.00	-15.57

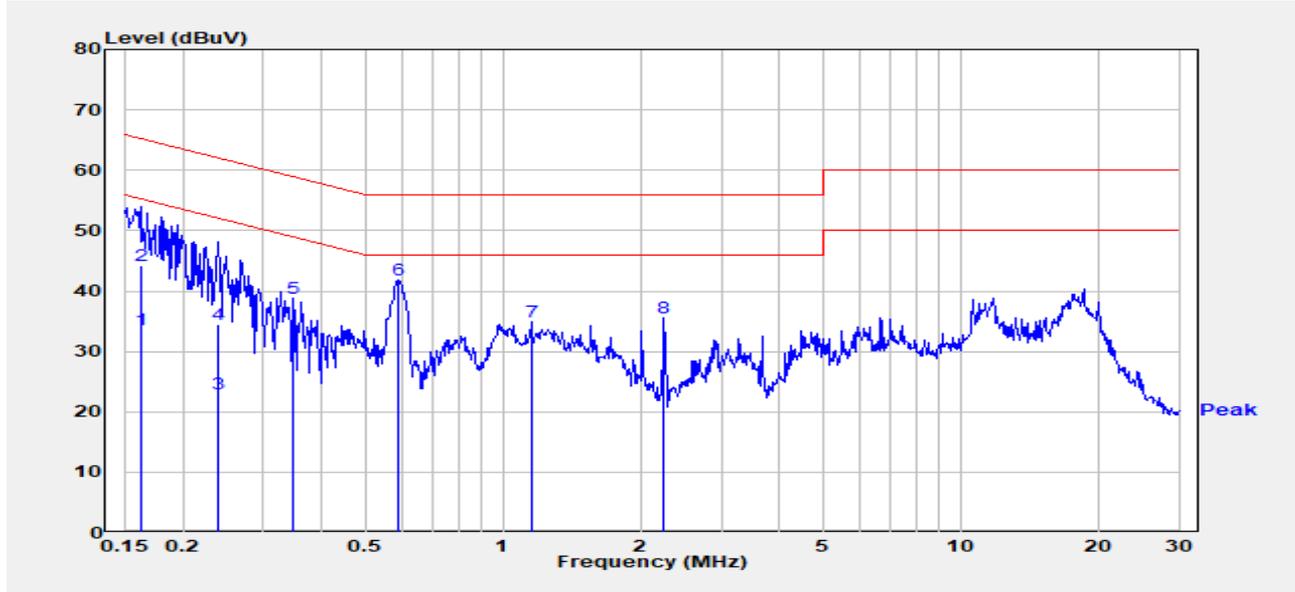
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 Power :120V/60Hz
 Probe :N
 Note: :

Test Site :Conduction 1
 Test Date :2024-09-04
 Temp./Humi. :23.7°C/64%
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V	Limit dB μ V	Margin dB
0.162	Average	23.40	10.12	33.52	55.38	-21.86
0.162	QP	34.20	10.12	44.32	65.38	-21.06
0.239	Average	12.80	10.13	22.93	52.13	-29.20
0.239	QP	24.30	10.13	34.43	62.13	-27.70
0.348	Peak	28.57	10.14	38.72	59.00	-20.29
0.589	Peak	31.76	10.17	41.93	56.00	-14.07
1.153	Peak	24.66	10.19	34.85	56.00	-21.15
2.249	Peak	25.36	10.21	35.57	56.00	-20.43

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8 PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable

8.1.1 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.

8.1.2 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.

In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

Note:

When the antenna gain is greater than 6 dBi, the power limit attenuated accordingly.

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

$$\bullet \quad \text{DirectionalGain} = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the kth antenna is being fed by spatial stream j, or zero if it is not;

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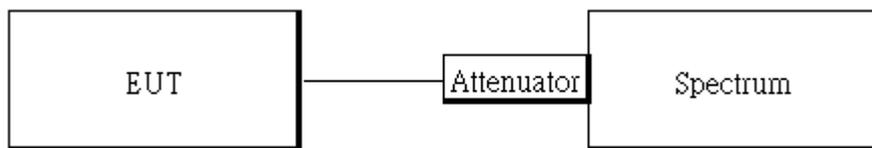
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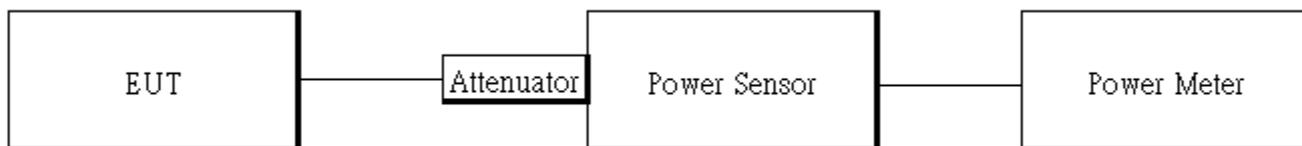
G_k is the gain in dBi of the kth antenna.

8.2 Test Setup

8.2.1 Duty Cycle



8.2.2 Output Power:



8.3 Measurement Procedure

8.3.1 Duty Cycle:

1. Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

8.3.2 Output Power

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.

Power Meter:

It is used as the auxiliary test equipment to conduct the output power measurement.

4. Record the max. Reading as observed from Spectrum or Power Meter.
5. MIMO mode: offset is set with “measure and add 10 Log (N)” to measurement for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna, cable loss is specified below.

*** Note: The duty cycle factor and below is compensated to obtain the maximum value of measurement in average.**

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8.4 Measurement Result

8.4.1 Duty Cycle:

Mode	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)	
802.11b	97.08	0.13	1.51	2.00	
802.11g	99.15	0.04	0.48	0.01	
802.11n_20	99.67	0.01	0.18	0.01	
802.11n_40	99.67	0.01	0.18	0.01	
Mode	RU Config	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11ax_20	Full	99.67	0.01	0.18	0.01
802.11ax_40	Full	99.67	0.01	0.18	0.01
802.11be_20	Full	99.67	0.01	0.18	0.01
	26 RU	99.65	0.02	0.20	0.01
	52 RU	99.65	0.02	0.20	0.01
	106 RU	99.41	0.03	0.33	0.01
	52+26 MRU	99.61	0.02	0.22	0.01
106+26 MRU	99.56	0.02	0.23	0.01	
802.11be_40	Full	99.69	0.01	0.18	0.01

8.4.2 Duty Cycle test plots

802.11b_20MHz_Chain0_2412MHz



802.11g_20MHz_Chain0_2412MHz

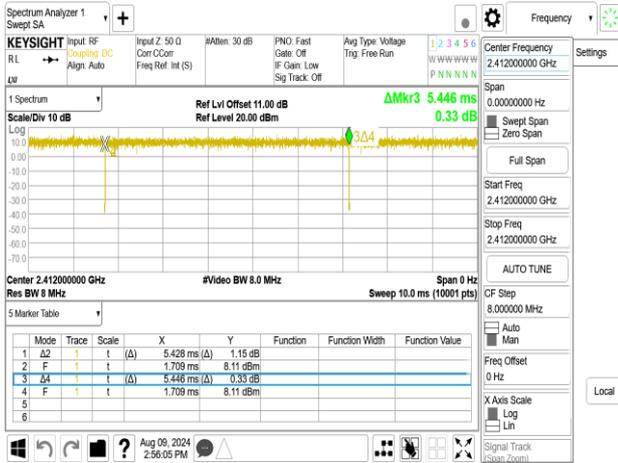


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802.11n_20MHz_Chain0_2412MHz



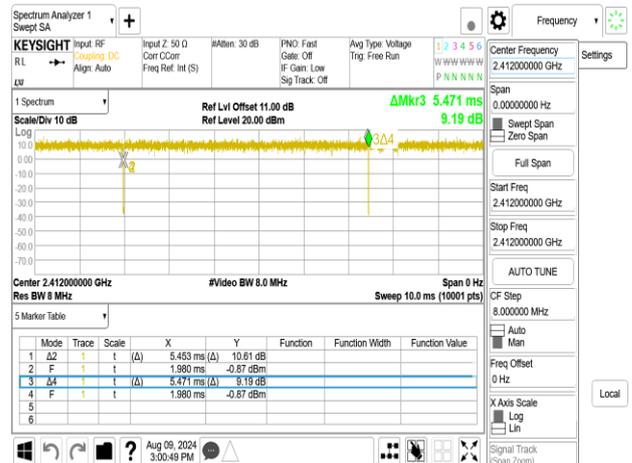
802.11ax_40MHz_Chain0_2422MHz



802.11n_40MHz_Chain0_2422MHz



802.11be_20MHz_Chain0_2412MHz



802.11ax_20MHz_Chain0_2412MHz



802.11be_20MHz_Chain0_2412MHz_106+26_MRU1



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802.11be_20MHz_Chain0_2412MHz_52+26_MRU1



802.11be_20MHz_Chain0_2412MHz_RU52_37



802.11be_20MHz_Chain0_2412MHz_RU106_53



802.11be_40MHz_Chain0_2422MHz



802.11be_20MHz_Chain0_2412MHz_RU26_0



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8.4.3 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	22	250.61	23.99	30.00	PASS
6	2437	1	22	272.27	24.35	30.00	PASS
11	2462	1	22	257.04	24.10	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	22	130.58	21.16	30.00	PASS
6	2437	1	22	139.92	21.46	30.00	PASS
11	2462	1	22	119.64	20.78	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	22	309.03	24.90	30.00	PASS
6	2437	1	23	289.07	24.61	30.00	PASS
11	2462	1	22.5	258.23	24.12	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	22	156.63	21.95	30.00	PASS
6	2437	1	23	149.58	21.75	30.00	PASS
11	2462	1	22.5	114.52	20.59	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	22	24.64	25.01	608.03	27.84	30.00	PASS
6	2437	1	23	24.49	24.72	577.67	27.62	30.00	PASS
11	2462	1	22.5	24.47	24.27	547.20	27.38	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	22	21.62	22.05	305.44	24.85	30.00	PASS
6	2437	1	23	21.61	21.90	299.67	24.77	30.00	PASS
11	2462	1	22.5	20.88	20.74	240.97	23.82	30.00	PASS

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802.11g Ch0							
CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	18	228.56	23.59	30.00	PASS
2	2417	6	21	411.15	26.14	30.00	PASS
3	2422	6	21	257.63	24.11	30.00	PASS
4	2427	6	21.5	450.82	26.54	30.00	PASS
6	2437	6	21.5	427.56	26.31	30.00	PASS
7	2442	6	21.5	445.66	26.49	30.00	PASS
8	2447	6	21	433.51	26.37	30.00	PASS
9	2452	6	21	447.71	26.51	30.00	PASS
10	2457	6	19.5	322.85	25.09	30.00	PASS
11	2462	6	17.5	198.15	22.97	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	18	55.55	17.45	30.00	PASS
2	2417	6	21	103.44	20.15	30.00	PASS
3	2422	6	21	105.13	20.22	30.00	PASS
4	2427	6	21.5	118.22	20.73	30.00	PASS
6	2437	6	21.5	113.95	20.57	30.00	PASS
7	2442	6	21.5	117.41	20.70	30.00	PASS
8	2447	6	21	108.57	20.36	30.00	PASS
9	2452	6	21	110.84	20.45	30.00	PASS
10	2457	6	19.5	80.11	19.04	30.00	PASS
11	2462	6	17.5	51.13	17.09	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	18	233.88	23.69	30.00	PASS
2	2417	6	21	434.51	26.38	30.00	PASS
3	2422	6	21	276.06	24.41	30.00	PASS
4	2427	6	21.5	304.09	24.83	30.00	PASS
6	2437	6	21.5	477.53	26.79	30.00	PASS
7	2442	6	21.5	464.52	26.67	30.00	PASS
8	2447	6	21	269.77	24.31	30.00	PASS
9	2452	6	21	256.45	24.09	30.00	PASS
10	2457	6	19.5	309.74	24.91	30.00	PASS
11	2462	6	17.5	189.23	22.77	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	18	57.90	17.63	30.00	PASS
2	2417	6	21	107.33	20.31	30.00	PASS
3	2422	6	21	106.34	20.27	30.00	PASS
4	2427	6	21.5	119.04	20.76	30.00	PASS
6	2437	6	21.5	118.50	20.74	30.00	PASS
7	2442	6	21.5	120.70	20.82	30.00	PASS
8	2447	6	21	104.88	20.21	30.00	PASS
9	2452	6	21	99.47	19.98	30.00	PASS
10	2457	6	19.5	73.57	18.67	30.00	PASS
11	2462	6	17.5	47.39	16.76	30.00	PASS

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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	18	23.85	23.74	479.25	26.81	30.00	PASS
2	2417	6	21	26.43	26.51	887.25	29.48	30.00	PASS
3	2422	6	21	26.43	26.53	889.32	29.49	30.00	PASS
4	2427	6	21.5	26.68	27.00	966.77	29.85	30.00	PASS
6	2437	6	21.5	26.46	26.92	934.63	29.71	30.00	PASS
7	2442	6	21.5	26.78	26.82	957.27	29.81	30.00	PASS
8	2447	6	21	26.45	26.42	880.10	29.45	30.00	PASS
9	2452	6	21	26.60	26.20	873.96	29.41	30.00	PASS
10	2457	6	19.5	25.18	24.98	644.38	28.09	30.00	PASS
11	2462	6	17.5	23.06	22.84	394.61	25.96	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	18	17.76	17.67	118.10	20.72	30.00	PASS
2	2417	6	21	20.47	20.35	219.67	23.42	30.00	PASS
3	2422	6	21	20.55	20.31	220.75	23.44	30.00	PASS
4	2427	6	21.5	21.00	20.81	246.23	23.91	30.00	PASS
6	2437	6	21.5	20.86	20.78	241.41	23.83	30.00	PASS
7	2442	6	21.5	21.00	20.88	248.19	23.95	30.00	PASS
8	2447	6	21	20.44	20.26	216.69	23.36	30.00	PASS
9	2452	6	21	20.52	20.03	213.27	23.29	30.00	PASS
10	2457	6	19.5	19.11	18.70	155.50	21.92	30.00	PASS
11	2462	6	17.5	17.15	16.80	99.68	19.99	30.00	PASS

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802.11n_HT_20M Ch0							
CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	16	158.85	22.01	30.00	PASS
2	2417	MCS0	17.5	221.82	23.46	30.00	PASS
3	2422	MCS0	20.5	404.58	26.07	30.00	PASS
4	2427	MCS0	21	421.70	26.25	30.00	PASS
6	2437	MCS0	21	433.51	26.37	30.00	PASS
8	2447	MCS0	21	438.53	26.42	30.00	PASS
9	2452	MCS0	20.5	414.00	26.17	30.00	PASS
10	2457	MCS0	19.5	343.56	25.36	30.00	PASS
11	2462	MCS0	17	190.11	22.79	30.00	PASS
802.11n_HT_20M Ch0							
CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	16	36.60	15.63	30.00	PASS
2	2417	MCS0	17.5	51.57	17.12	30.00	PASS
3	2422	MCS0	20.5	99.87	19.99	30.00	PASS
4	2427	MCS0	21	108.50	20.35	30.00	PASS
6	2437	MCS0	21	109.00	20.37	30.00	PASS
8	2447	MCS0	21	108.00	20.33	30.00	PASS
9	2452	MCS0	20.5	94.94	19.77	30.00	PASS
10	2457	MCS0	19.5	79.51	19.00	30.00	PASS
11	2462	MCS0	17	45.23	16.55	30.00	PASS

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802.11n_HT_20M Ch1							
CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	16	151.01	21.79	30.00	PASS
2	2417	MCS0	17.5	221.82	23.46	30.00	PASS
3	2422	MCS0	20.5	435.51	26.39	30.00	PASS
4	2427	MCS0	21	433.51	26.37	30.00	PASS
6	2437	MCS0	21	447.71	26.51	30.00	PASS
8	2447	MCS0	21	431.52	26.35	30.00	PASS
9	2452	MCS0	20.5	408.32	26.11	30.00	PASS
10	2457	MCS0	19.5	334.20	25.24	30.00	PASS
11	2462	MCS0	17	185.35	22.68	30.00	PASS
802.11n_HT_20M Ch1							
CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	16	35.27	15.47	30.00	PASS
2	2417	MCS0	17.5	50.87	17.06	30.00	PASS
3	2422	MCS0	20.5	98.27	19.92	30.00	PASS
4	2427	MCS0	21	102.20	20.09	30.00	PASS
6	2437	MCS0	21	106.77	20.28	30.00	PASS
8	2447	MCS0	21	103.38	20.14	30.00	PASS
9	2452	MCS0	20.5	94.07	19.73	30.00	PASS
10	2457	MCS0	19.5	72.68	18.61	30.00	PASS
11	2462	MCS0	17	41.54	16.18	30.00	PASS

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802.11n_HT20M_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	16	22.17	21.91	320.05	25.05	30.00	PASS
2	2417	MCS0	17.5	23.62	23.58	458.18	26.61	30.00	PASS
3	2422	MCS0	20.5	26.29	26.48	870.23	29.40	30.00	PASS
4	2427	MCS0	21	26.45	26.45	883.14	29.46	30.00	PASS
6	2437	MCS0	21	26.51	26.57	901.65	29.55	30.00	PASS
8	2447	MCS0	21	26.58	26.44	895.54	29.52	30.00	PASS
9	2452	MCS0	20.5	26.31	26.22	846.36	29.28	30.00	PASS
10	2457	MCS0	19.5	25.54	25.33	699.29	28.45	30.00	PASS
11	2462	MCS0	17	22.98	22.74	386.54	25.87	30.00	PASS

802.11n_HT20M_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	16	15.69	15.51	72.70	18.62	30.00	PASS
2	2417	MCS0	17.5	17.21	17.09	103.87	20.17	30.00	PASS
3	2422	MCS0	20.5	20.04	19.95	199.98	23.01	30.00	PASS
4	2427	MCS0	21	20.38	20.13	212.40	23.27	30.00	PASS
6	2437	MCS0	21	20.40	20.33	217.76	23.38	30.00	PASS
8	2447	MCS0	21	20.40	20.18	214.09	23.31	30.00	PASS
9	2452	MCS0	20.5	19.85	19.77	191.64	22.82	30.00	PASS
10	2457	MCS0	19.5	19.06	18.66	154.14	21.88	30.00	PASS
11	2462	MCS0	17	16.62	16.25	88.18	19.45	30.00	PASS

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802.11n_HT_40M Ch0

CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	17	238.23	23.77	30.00	PASS
4	2427	MCS0	18	267.92	24.28	30.00	PASS
5	2432	MCS0	18	282.49	24.51	30.00	PASS
6	2437	MCS0	19	353.18	25.48	30.00	PASS
7	2442	MCS0	17.5	266.69	24.26	30.00	PASS
8	2447	MCS0	17	233.35	23.68	30.00	PASS
9	2452	MCS0	17.5	262.42	24.19	30.00	PASS

802.11n_HT_40M Ch0

CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	17	45.23	16.55	30.00	PASS
4	2427	MCS0	18	54.63	17.37	30.00	PASS
5	2432	MCS0	18	55.26	17.42	30.00	PASS
6	2437	MCS0	19	69.09	18.39	30.00	PASS
7	2442	MCS0	17.5	51.81	17.14	30.00	PASS
8	2447	MCS0	17	46.39	16.66	30.00	PASS
9	2452	MCS0	17.5	51.69	17.13	30.00	PASS

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802.11n_HT_40M Ch1							
CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	17	234.96	23.71	30.00	PASS
4	2427	MCS0	18	286.42	24.57	30.00	PASS
5	2432	MCS0	18	289.07	24.61	30.00	PASS
6	2437	MCS0	19	366.44	25.64	30.00	PASS
7	2442	MCS0	17.5	255.86	24.08	30.00	PASS
8	2447	MCS0	17	232.81	23.67	30.00	PASS
9	2452	MCS0	17.5	234.96	23.71	30.00	PASS
802.11n_HT_40M Ch1							
CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	17	43.90	16.42	30.00	PASS
4	2427	MCS0	18	56.16	17.49	30.00	PASS
5	2432	MCS0	18	55.01	17.40	30.00	PASS
6	2437	MCS0	19	68.46	18.35	30.00	PASS
7	2442	MCS0	17.5	47.69	16.78	30.00	PASS
8	2447	MCS0	17	42.50	16.28	30.00	PASS
9	2452	MCS0	17.5	48.02	16.81	30.00	PASS

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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	17	23.94	23.76	485.43	26.86	30.00	PASS
4	2427	MCS0	18	24.53	24.64	574.86	27.60	30.00	PASS
5	2432	MCS0	18	24.66	24.68	586.18	27.68	30.00	PASS
6	2437	MCS0	19	25.63	25.73	739.71	28.69	30.00	PASS
7	2442	MCS0	17.5	24.48	24.20	543.57	27.35	30.00	PASS
8	2447	MCS0	17	23.90	23.75	482.61	26.84	30.00	PASS
9	2452	MCS0	17.5	24.44	23.82	518.96	27.15	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	17	16.70	16.49	91.43	19.61	30.00	PASS
4	2427	MCS0	18	17.49	17.52	112.71	20.52	30.00	PASS
5	2432	MCS0	18	17.53	17.46	112.46	20.51	30.00	PASS
6	2437	MCS0	19	18.49	18.40	139.96	21.46	30.00	PASS
7	2442	MCS0	17.5	17.27	16.84	101.74	20.07	30.00	PASS
8	2447	MCS0	17	16.74	16.35	90.45	19.56	30.00	PASS
9	2452	MCS0	17.5	17.22	16.86	101.35	20.06	30.00	PASS

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802.11ax_HE_20M Ch0								
CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	full	16	155.96	21.93	30.00	PASS
2	2417	MCS0	full	17.5	219.79	23.42	30.00	PASS
3	2422	MCS0	full	20.5	400.87	26.03	30.00	PASS
4	2427	MCS0	full	21	423.64	26.27	30.00	PASS
6	2437	MCS0	full	21	426.58	26.30	30.00	PASS
8	2447	MCS0	full	21	430.53	26.34	30.00	PASS
9	2452	MCS0	full	20.5	404.58	26.07	30.00	PASS
10	2457	MCS0	full	19.5	340.41	25.32	30.00	PASS
11	2462	MCS0	full	17	190.99	22.81	30.00	PASS

802.11ax_HE_20M Ch0								
CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	full	16	35.85	15.54	30.00	PASS
2	2417	MCS0	full	17.5	51.22	17.09	30.00	PASS
3	2422	MCS0	full	20.5	99.64	19.98	30.00	PASS
4	2427	MCS0	full	21	108.25	20.34	30.00	PASS
6	2437	MCS0	full	21	105.30	20.22	30.00	PASS
8	2447	MCS0	full	21	107.01	20.29	30.00	PASS
9	2452	MCS0	full	20.5	94.28	19.74	30.00	PASS
10	2457	MCS0	full	19.5	78.78	18.96	30.00	PASS
11	2462	MCS0	full	17	45.75	16.60	30.00	PASS

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802.11ax_HE_20M Ch1								
CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	full	16	148.25	21.71	30.00	PASS
2	2417	MCS0	full	17.5	221.82	23.46	30.00	PASS
3	2422	MCS0	full	20.5	279.90	24.47	30.00	PASS
4	2427	MCS0	full	21	454.99	26.58	30.00	PASS
6	2437	MCS0	full	21	466.66	26.69	30.00	PASS
8	2447	MCS0	full	21	439.54	26.43	30.00	PASS
9	2452	MCS0	full	20.5	415.91	26.19	30.00	PASS
10	2457	MCS0	full	19.5	334.20	25.24	30.00	PASS
11	2462	MCS0	full	17	185.35	22.68	30.00	PASS

802.11ax_HE_20M Ch1								
CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	full	16	35.44	15.49	30.00	PASS
2	2417	MCS0	full	17.5	50.87	17.06	30.00	PASS
3	2422	MCS0	full	20.5	98.50	19.93	30.00	PASS
4	2427	MCS0	full	21	102.90	20.12	30.00	PASS
6	2437	MCS0	full	21	106.03	20.25	30.00	PASS
8	2447	MCS0	full	21	104.58	20.19	30.00	PASS
9	2452	MCS0	full	20.5	94.72	19.76	30.00	PASS
10	2457	MCS0	full	19.5	74.55	18.72	30.00	PASS
11	2462	MCS0	full	17	42.41	16.27	30.00	PASS

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802.11ax_HE20M_2TX										
CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Peak Output Power (dBm)		Total Peak Output Power (mW)	Total Peak Output Power (dBm)	Limit (dBm)	RESULT
					Ch0	Ch1				
1	2412	MCS0	full	16	22.22	21.94	323.04	25.09	30.00	PASS
2	2417	MCS0	full	17.5	23.66	23.62	462.42	26.65	30.00	PASS
3	2422	MCS0	full	20.5	26.34	26.53	880.31	29.45	30.00	PASS
4	2427	MCS0	full	21	26.49	26.50	892.34	29.51	30.00	PASS
6	2437	MCS0	full	21	26.62	26.88	946.73	29.76	30.00	PASS
8	2447	MCS0	full	21	26.63	26.49	905.91	29.57	30.00	PASS
9	2452	MCS0	full	20.5	26.35	26.29	857.12	29.33	30.00	PASS
10	2457	MCS0	full	19.5	25.58	25.36	704.97	28.48	30.00	PASS
11	2462	MCS0	full	17	23.02	22.80	390.99	25.92	30.00	PASS

802.11ax_HE20M_2TX										
CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Avg. Output Power (dBm)		Total Avg. Output Power (mW)	Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
					Ch0	Ch1				
1	2412	MCS0	full	16	15.74	15.53	73.30	18.65	30.00	PASS
2	2417	MCS0	full	17.5	17.26	17.12	104.84	20.21	30.00	PASS
3	2422	MCS0	full	20.5	20.08	19.99	201.83	23.05	30.00	PASS
4	2427	MCS0	full	21	20.43	20.17	214.62	23.32	30.00	PASS
6	2437	MCS0	full	21	20.41	20.37	219.01	23.40	30.00	PASS
8	2447	MCS0	full	21	20.44	20.23	216.32	23.35	30.00	PASS
9	2452	MCS0	full	20.5	19.92	19.84	194.75	22.89	30.00	PASS
10	2457	MCS0	full	19.5	19.09	18.71	155.55	21.92	30.00	PASS
11	2462	MCS0	full	17	16.68	16.30	89.31	19.51	30.00	PASS

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802.11ax_HE_40M Ch0

CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	17	224.91	23.52	30.00	PASS
4	2427	MCS0	full	18	260.62	24.16	30.00	PASS
5	2432	MCS0	full	18	270.40	24.32	30.00	PASS
6	2437	MCS0	full	19	338.06	25.29	30.00	PASS
7	2442	MCS0	full	17.5	252.93	24.03	30.00	PASS
8	2447	MCS0	full	17	234.96	23.71	30.00	PASS
9	2452	MCS0	full	17.5	256.45	24.09	30.00	PASS

802.11ax_HE_40M Ch0

CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	17	44.00	16.43	30.00	PASS
4	2427	MCS0	full	18	52.78	17.22	30.00	PASS
5	2432	MCS0	full	18	55.52	17.44	30.00	PASS
6	2437	MCS0	full	19	67.21	18.27	30.00	PASS
7	2442	MCS0	full	17.5	50.87	17.06	30.00	PASS
8	2447	MCS0	full	17	44.51	16.48	30.00	PASS
9	2452	MCS0	full	17.5	49.71	16.96	30.00	PASS

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802.11ax_HE_40M Ch1								
CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	17	236.05	23.73	30.00	PASS
4	2427	MCS0	full	18	288.40	24.60	30.00	PASS
5	2432	MCS0	full	18	287.08	24.58	30.00	PASS
6	2437	MCS0	full	19	363.92	25.61	30.00	PASS
7	2442	MCS0	full	17.5	261.82	24.18	30.00	PASS
8	2447	MCS0	full	17	233.35	23.68	30.00	PASS
9	2452	MCS0	full	17.5	263.63	24.21	30.00	PASS
802.11ax_HE_40M Ch1								
CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	17	44.71	16.50	30.00	PASS
4	2427	MCS0	full	18	56.81	17.54	30.00	PASS
5	2432	MCS0	full	18	55.39	17.43	30.00	PASS
6	2437	MCS0	full	19	69.57	18.42	30.00	PASS
7	2442	MCS0	full	17.5	48.80	16.88	30.00	PASS
8	2447	MCS0	full	17	42.70	16.30	30.00	PASS
9	2452	MCS0	full	17.5	48.35	16.84	30.00	PASS

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802.11ax_HE40M_2TX										
CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Peak Output Power (dBm)		Total Peak Output Power (mW)	Total Peak Output Power (dBm)	Limit (dBm)	RESULT
					Ch0	Ch1				
3	2422	MCS0	full	17	23.98	23.81	490.47	26.91	30.00	PASS
4	2427	MCS0	full	18	24.59	24.68	581.50	27.65	30.00	PASS
5	2432	MCS0	full	18	24.69	24.72	590.93	27.72	30.00	PASS
6	2437	MCS0	full	19	25.70	25.76	748.24	28.74	30.00	PASS
7	2442	MCS0	full	17.5	24.51	24.24	547.95	27.39	30.00	PASS
8	2447	MCS0	full	17	23.95	23.78	487.09	26.88	30.00	PASS
9	2452	MCS0	full	17.5	24.49	23.87	524.97	27.20	30.00	PASS
802.11ax_HE40M_2TX										
CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Avg. Output Power (dBm)		Total Avg. Output Power (mW)	Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
					Ch0	Ch1				
3	2422	MCS0	full	17	16.75	16.53	92.39	19.66	30.00	PASS
4	2427	MCS0	full	18	17.53	17.57	113.89	20.56	30.00	PASS
5	2432	MCS0	full	18	17.58	17.49	113.50	20.55	30.00	PASS
6	2437	MCS0	full	19	18.56	18.45	141.91	21.52	30.00	PASS
7	2442	MCS0	full	17.5	17.32	16.90	103.03	20.13	30.00	PASS
8	2447	MCS0	full	17	16.78	16.39	91.29	19.60	30.00	PASS
9	2452	MCS0	full	17.5	17.27	16.88	102.19	20.09	30.00	PASS

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802.11be_EHT_20M Ch0								
CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	full	16	159.96	22.04	30.00	PASS
			26/0	6	23.28	13.67	30.00	PASS
			52/37	9.5	53.58	17.29	30.00	PASS
			106/53	12	97.27	19.88	30.00	PASS
			52+26 MRU1	10.5	68.23	18.34	30.00	PASS
			106+26 MRU1	12.5	110.41	20.43	30.00	PASS
2	2417	MCS0	full	17.5	228.56	23.59	30.00	PASS
3	2422	MCS0	full	20.5	424.62	26.28	30.00	PASS
4	2427	MCS0	full	21	443.61	26.47	30.00	PASS
6	2437	MCS0	full	21	446.68	26.50	30.00	PASS
8	2447	MCS0	full	21	450.82	26.54	30.00	PASS
9	2452	MCS0	full	20.5	423.64	26.27	30.00	PASS
10	2457	MCS0	full	19.5	354.00	25.49	30.00	PASS
11	2462	MCS0	full	17	197.24	22.95	30.00	PASS
			26/8	9	43.65	16.40	30.00	PASS
			52/40	13	89.33	19.51	30.00	PASS
			106/54	13.5	167.11	22.23	30.00	PASS
			52+26 MRU3	12.5	110.15	20.42	30.00	PASS
			106+26 MRU2	14	157.40	21.97	30.00	PASS
802.11be_EHT_20M Ch0								
CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	full	16	36.26	15.59	30.00	PASS
			26/0	6	4.24	6.28	30.00	PASS
			52/37	9.5	9.43	9.75	30.00	PASS
			106/53	12	15.09	11.79	30.00	PASS
			52+26 MRU1	10.5	10.96	10.40	30.00	PASS
			106+26 MRU1	12.5	16.71	12.23	30.00	PASS
2	2417	MCS0	full	17.5	51.69	17.13	30.00	PASS
3	2422	MCS0	full	20.5	100.56	20.02	30.00	PASS
4	2427	MCS0	full	21	109.51	20.39	30.00	PASS
6	2437	MCS0	full	21	106.52	20.27	30.00	PASS
8	2447	MCS0	full	21	107.75	20.32	30.00	PASS
9	2452	MCS0	full	20.5	95.16	19.78	30.00	PASS
10	2457	MCS0	full	19.5	79.33	18.99	30.00	PASS
11	2462	MCS0	full	17	46.39	16.66	30.00	PASS
			26/8	9	7.40	8.70	30.00	PASS
			52/40	13	10.56	10.24	30.00	PASS
			106/54	13.5	22.16	13.46	30.00	PASS
			52+26 MRU3	12.5	17.25	12.37	30.00	PASS
			106+26 MRU2	14	23.55	13.72	30.00	PASS

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802.11be_EHT_20M Ch1								
CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	full	16	154.17	21.88	30.00	PASS
			26/0	6	24.66	13.92	30.00	PASS
			52/37	9.5	56.62	17.53	30.00	PASS
			106/53	12	101.86	20.08	30.00	PASS
			52+26 MRU1	10.5	76.74	18.85	30.00	PASS
			106+26 MRU1	12.5	119.95	20.79	30.00	PASS
2	2417	MCS0	full	17.5	230.14	23.62	30.00	PASS
3	2422	MCS0	full	20.5	447.71	26.51	30.00	PASS
4	2427	MCS0	full	21	464.52	26.67	30.00	PASS
6	2437	MCS0	full	21	478.63	26.80	30.00	PASS
8	2447	MCS0	full	21	447.71	26.51	30.00	PASS
9	2452	MCS0	full	20.5	423.64	26.27	30.00	PASS
10	2457	MCS0	full	19.5	341.19	25.33	30.00	PASS
11	2462	MCS0	full	17	188.36	22.75	30.00	PASS
			26/8	9	44.77	16.51	30.00	PASS
			52/40	13	111.69	20.48	30.00	PASS
			106/54	13.5	136.14	21.34	30.00	PASS
			52+26 MRU3	12.5	112.72	20.52	30.00	PASS
			106+26 MRU2	14	156.68	21.95	30.00	PASS
802.11be_EHT_20M Ch1								
CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	full	16	35.85	15.54	30.00	PASS
			26/0	6	4.46	6.50	30.00	PASS
			52/37	9.5	9.97	9.99	30.00	PASS
			106/53	12	16.35	12.14	30.00	PASS
			52+26 MRU1	10.5	12.49	10.97	30.00	PASS
			106+26 MRU1	12.5	18.40	12.65	30.00	PASS
2	2417	MCS0	full	17.5	51.22	17.09	30.00	PASS
3	2422	MCS0	full	20.5	99.41	19.97	30.00	PASS
4	2427	MCS0	full	21	104.10	20.17	30.00	PASS
6	2437	MCS0	full	21	108.25	20.34	30.00	PASS
8	2447	MCS0	full	21	106.03	20.25	30.00	PASS
9	2452	MCS0	full	20.5	96.04	19.82	30.00	PASS
10	2457	MCS0	full	19.5	75.24	18.76	30.00	PASS
11	2462	MCS0	full	17	42.70	16.30	30.00	PASS
			26/8	9	8.19	9.14	30.00	PASS
			52/40	13	12.66	11.03	30.00	PASS
			106/54	13.5	21.31	13.29	30.00	PASS
			52+26 MRU3	12.5	17.33	12.39	30.00	PASS
			106+26 MRU2	14	22.96	13.61	30.00	PASS

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802.11be_EHT20M_2TX										
CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Peak Output Power (dBm)		Total Peak Output Power (mW)	Total Peak Output Power (dBm)	Limit (dBm)	RESULT
					Ch0	Ch1				
1	2412	MCS0	full	16	22.26	21.97	325.67	25.13	30.00	PASS
			26/0	6	13.76	13.98	48.77	16.88	30.00	PASS
			52/37	9.5	17.34	17.59	111.61	20.48	30.00	PASS
			106/53	12	19.96	20.16	202.84	23.07	30.00	PASS
			52+26 MRU1	10.5	18.41	18.96	148.05	21.70	30.00	PASS
			106+26 MRU1	12.5	20.51	20.86	234.36	23.70	30.00	PASS
2	2417	MCS0	full	17.5	23.73	23.66	468.32	26.71	30.00	PASS
3	2422	MCS0	full	20.5	26.38	26.57	888.45	29.49	30.00	PASS
4	2427	MCS0	full	21	26.54	26.55	902.67	29.56	30.00	PASS
6	2437	MCS0	full	21	26.62	26.88	946.73	29.76	30.00	PASS
8	2447	MCS0	full	21	26.69	26.56	919.56	29.64	30.00	PASS
9	2452	MCS0	full	20.5	26.39	26.34	866.04	29.38	30.00	PASS
10	2457	MCS0	full	19.5	25.62	25.42	713.09	28.53	30.00	PASS
11	2462	MCS0	full	17	23.08	22.84	395.54	25.97	30.00	PASS
			26/8	9	16.53	16.58	90.48	19.57	30.00	PASS
			52/40	13	19.60	20.54	204.44	23.11	30.00	PASS
			106/54	13.5	22.34	21.45	311.03	24.93	30.00	PASS
			52+26 MRU3	12.5	20.54	20.63	228.85	23.60	30.00	PASS
			106+26 MRU2	14	22.08	22.03	321.02	25.07	30.00	PASS

802.11be_EHT20M_2TX										
CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Avg. Output Power (dBm)		Total Avg. Output Power (mW)	Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
					Ch0	Ch1				
1	2412	MCS0	full	16	15.78	15.58	74.06	18.70	30.00	PASS
			26/0	6	6.33	6.57	8.83	9.46	30.00	PASS
			52/37	9.5	9.78	10.03	19.57	12.92	30.00	PASS
			106/53	12	11.85	12.17	31.76	15.02	30.00	PASS
			52+26 MRU1	10.5	10.44	11.01	23.67	13.74	30.00	PASS
			106+26 MRU1	12.5	12.30	12.67	35.47	15.50	30.00	PASS
2	2417	MCS0	full	17.5	17.30	17.16	105.81	20.25	30.00	PASS
3	2422	MCS0	full	20.5	20.14	20.02	203.94	23.10	30.00	PASS
4	2427	MCS0	full	21	20.51	20.23	218.12	23.39	30.00	PASS
6	2437	MCS0	full	21	20.45	20.41	221.04	23.44	30.00	PASS
8	2447	MCS0	full	21	20.48	20.30	219.06	23.41	30.00	PASS
9	2452	MCS0	full	20.5	20.00	19.88	197.47	22.96	30.00	PASS
10	2457	MCS0	full	19.5	19.13	18.78	157.51	21.97	30.00	PASS
11	2462	MCS0	full	17	16.74	16.35	90.45	19.56	30.00	PASS
			26/8	9	8.81	9.18	15.87	12.01	30.00	PASS
			52/40	13	10.28	11.08	23.47	13.71	30.00	PASS
			106/54	13.5	13.52	13.37	44.21	16.46	30.00	PASS
			52+26 MRU3	12.5	12.43	12.45	35.05	15.45	30.00	PASS
			106+26 MRU2	14	13.80	13.66	47.21	16.74	30.00	PASS

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802.11be_EHT_40M Ch0

CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	17	234.96	23.71	30.00	PASS
4	2427	MCS0	full	18	274.16	24.38	30.00	PASS
5	2432	MCS0	full	18	281.19	24.49	30.00	PASS
6	2437	MCS0	full	19	355.63	25.51	30.00	PASS
7	2442	MCS0	full	17.5	266.07	24.25	30.00	PASS
8	2447	MCS0	full	17	240.99	23.82	30.00	PASS
9	2452	MCS0	full	17.5	266.69	24.26	30.00	PASS

802.11be_EHT_40M Ch0

CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	17	45.43	16.57	30.00	PASS
4	2427	MCS0	full	18	54.49	17.36	30.00	PASS
5	2432	MCS0	full	18	56.15	17.49	30.00	PASS
6	2437	MCS0	full	19	68.45	18.35	30.00	PASS
7	2442	MCS0	full	17.5	51.68	17.13	30.00	PASS
8	2447	MCS0	full	17	45.33	16.56	30.00	PASS
9	2452	MCS0	full	17.5	50.51	17.03	30.00	PASS

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802.11be_EHT_40M Ch1

CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	17	240.44	23.81	30.00	PASS
4	2427	MCS0	full	18	293.09	24.67	30.00	PASS
5	2432	MCS0	full	18	294.44	24.69	30.00	PASS
6	2437	MCS0	full	19	374.11	25.73	30.00	PASS
7	2442	MCS0	full	17.5	266.07	24.25	30.00	PASS
8	2447	MCS0	full	17	237.68	23.76	30.00	PASS
9	2452	MCS0	full	17.5	271.64	24.34	30.00	PASS

802.11be_EHT_40M Ch1

CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	17	45.01	16.53	30.00	PASS
4	2427	MCS0	full	18	57.46	17.59	30.00	PASS
5	2432	MCS0	full	18	55.89	17.47	30.00	PASS
6	2437	MCS0	full	19	70.20	18.46	30.00	PASS
7	2442	MCS0	full	17.5	49.47	16.94	30.00	PASS
8	2447	MCS0	full	17	43.39	16.37	30.00	PASS
9	2452	MCS0	full	17.5	48.79	16.88	30.00	PASS

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802.11be_EHT40M_2TX

CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Peak Output Power (dBm)		Total Peak Output Power (mW)	Total Peak Output Power (dBm)	Limit (dBm)	RESULT
					Ch0	Ch1				
3	2422	MCS0	full	17	24.03	23.89	497.84	26.97	30.00	PASS
4	2427	MCS0	full	18	24.63	24.74	588.25	27.70	30.00	PASS
5	2432	MCS0	full	18	24.75	24.78	599.15	27.78	30.00	PASS
6	2437	MCS0	full	19	25.75	25.79	755.15	28.78	30.00	PASS
7	2442	MCS0	full	17.5	24.56	24.31	555.53	27.45	30.00	PASS
8	2447	MCS0	full	17	24.04	23.83	495.06	26.95	30.00	PASS
9	2452	MCS0	full	17.5	24.56	24.41	561.82	27.50	30.00	PASS

802.11be_EHT40M_2TX

CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Avg. Output Power (dBm)		Total Avg. Output Power (mW)	Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
					Ch0	Ch1				
3	2422	MCS0	full	17	16.84	16.58	93.88	19.73	30.00	PASS
4	2427	MCS0	full	18	17.58	17.62	115.18	20.61	30.00	PASS
5	2432	MCS0	full	18	17.62	17.54	114.66	20.59	30.00	PASS
6	2437	MCS0	full	19	18.63	18.54	144.51	21.60	30.00	PASS
7	2442	MCS0	full	17.5	17.37	16.98	104.55	20.19	30.00	PASS
8	2447	MCS0	full	17	16.80	16.44	91.99	19.64	30.00	PASS
9	2452	MCS0	full	17.5	17.30	16.94	103.22	20.14	30.00	PASS

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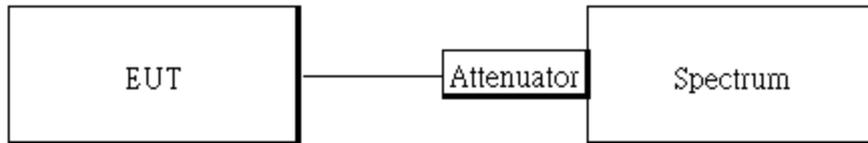
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9 EMISSION BANDWIDTH MEASUREMENT

9.1 Standard Applicable

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

9.2 Test Setup



9.3 Measurement Procedure:

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.

9.3.1 6dB BW measurements

1. The testing follows the Measurement Procedure of the KDB 558074 D01.
2. Set the spectrum analyzer as
RBW= 100 kHz ,
VBW = 3 X RBW,
Span= 2 to 5 times of the OBW,
Sweep=auto, Detector = Peak, and Max hold.
3. Mark the upper and lower frequencies of -6dB.
4. Repeat above procedures until all test default channel is completed.

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9.4 Measurement Result:

9.4.1 6dB BW measurements

802.11b Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	8067.00	≥ 500	PASS
2437	7585.00	≥ 500	PASS
2462	7608.00	≥ 500	PASS

802.11b Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	8084.00	≥ 500	PASS
2437	8080.00	≥ 500	PASS
2462	8073.00	≥ 500	PASS

802.11g Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	16460.00	≥ 500	PASS
2437	16420.00	≥ 500	PASS
2462	16400.00	≥ 500	PASS

802.11g Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	16420.00	≥ 500	PASS
2437	16430.00	≥ 500	PASS
2462	16440.00	≥ 500	PASS

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802.11be_EHT_20M Ch0

Freq. (MHz)	RU Config	6dB BW (kHz)	Limit (kHz)	Result
2412	full	19070.00	≥ 500	PASS
2437	full	19080.00	≥ 500	PASS
2462	full	19120.00	≥ 500	PASS

802.11be_EHT_20M Ch1

Freq. (MHz)	RU Config	6dB BW (kHz)	Limit (kHz)	Result
2412	full	19070.00	≥ 500	PASS
2437	full	19050.00	≥ 500	PASS
2462	full	19040.00	≥ 500	PASS

802.11be_EHT_40M Ch0

Freq. (MHz)	RU Config	6dB BW (kHz)	Limit (kHz)	Result
2422	full	38150.00	≥ 500	PASS
2437	full	38190.00	≥ 500	PASS
2452	full	38160.00	≥ 500	PASS

802.11be_EHT_40M Ch1

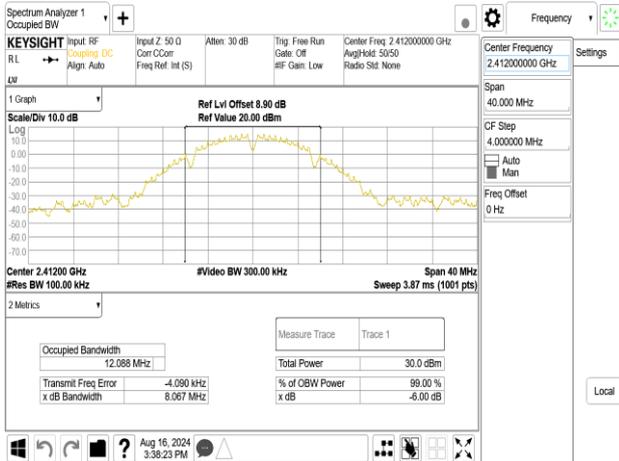
Freq. (MHz)	RU Config	6dB BW (kHz)	Limit (kHz)	Result
2422	full	38230.00	≥ 500	PASS
2437	full	38160.00	≥ 500	PASS
2452	full	38010.00	≥ 500	PASS

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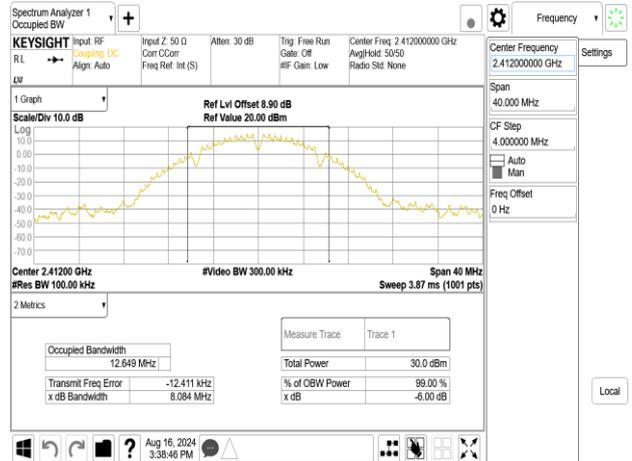
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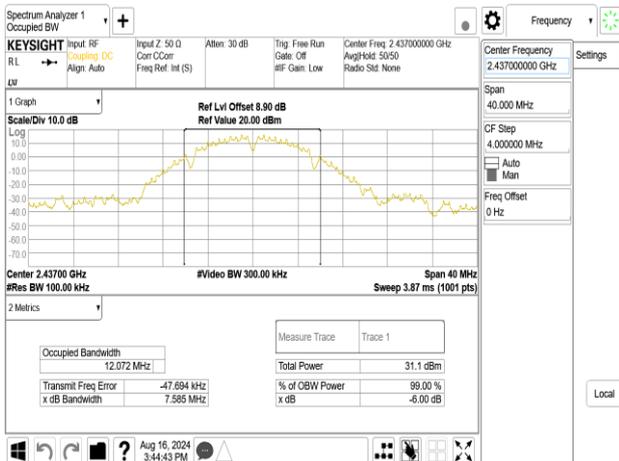
802.11b_20MHz_Chain0_2412MHz



802.11b_20MHz_Chain1_2412MHz



802.11b_20MHz_Chain0_2437MHz



802.11b_20MHz_Chain1_2437MHz



802.11b_20MHz_Chain0_2462MHz



802.11b_20MHz_Chain1_2462MHz



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802.11g_20MHz_Chain0_2412MHz



802.11g_20MHz_Chain1_2412MHz



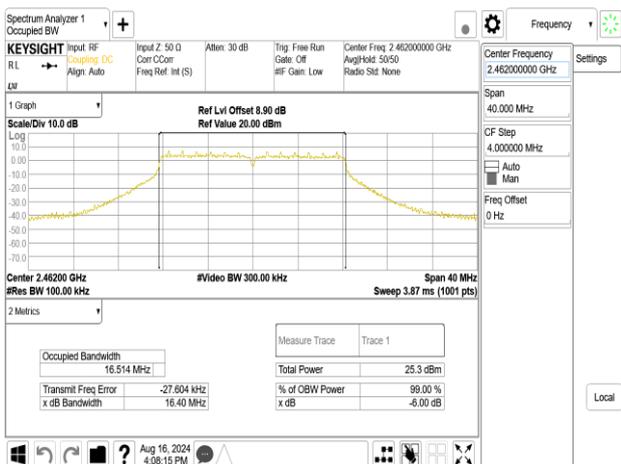
802.11g_20MHz_Chain0_2437MHz



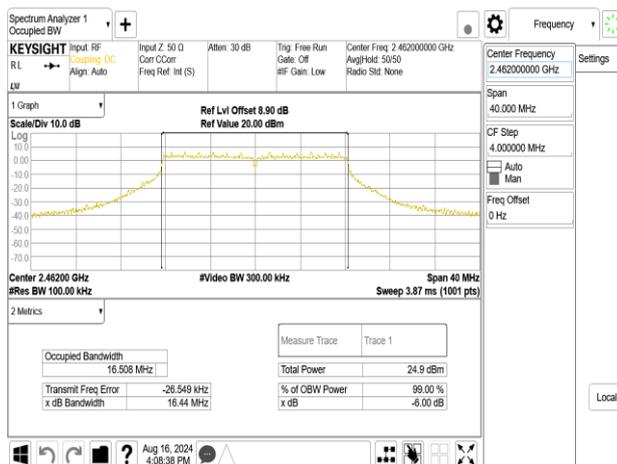
802.11g_20MHz_Chain1_2437MHz



802.11g_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain1_2462MHz

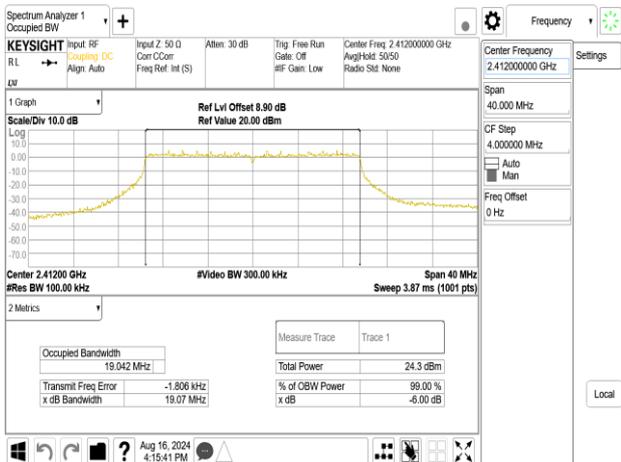


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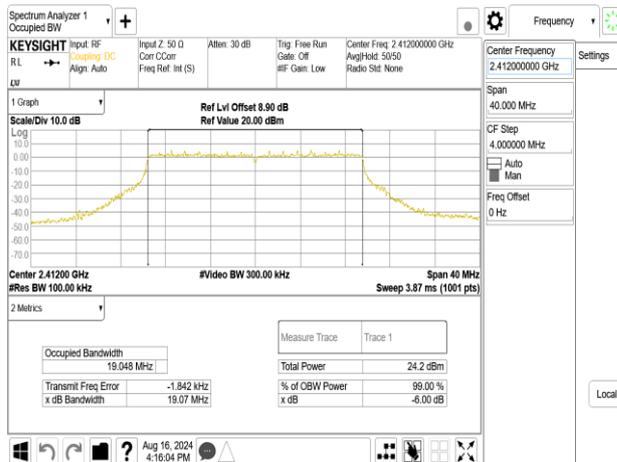
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802.11be_20MHz_Chain0_2412MHz



802.11be_20MHz_Chain1_2412MHz



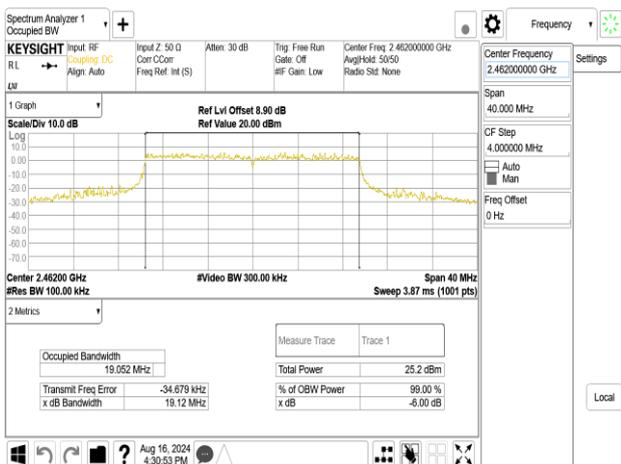
802.11be_20MHz_Chain0_2437MHz



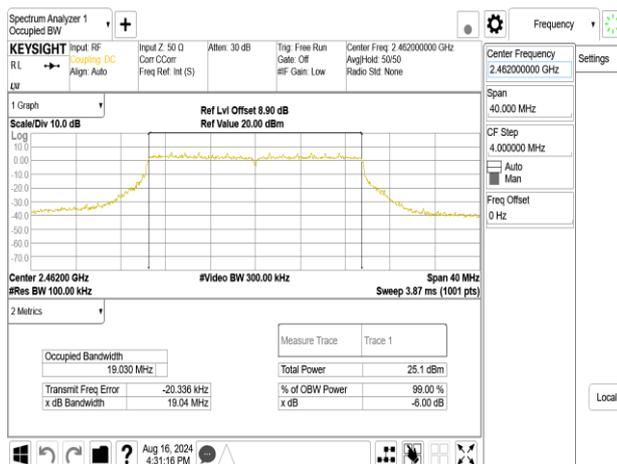
802.11be_20MHz_Chain1_2437MHz



802.11be_20MHz_Chain0_2462MHz



802.11be_20MHz_Chain1_2462MHz

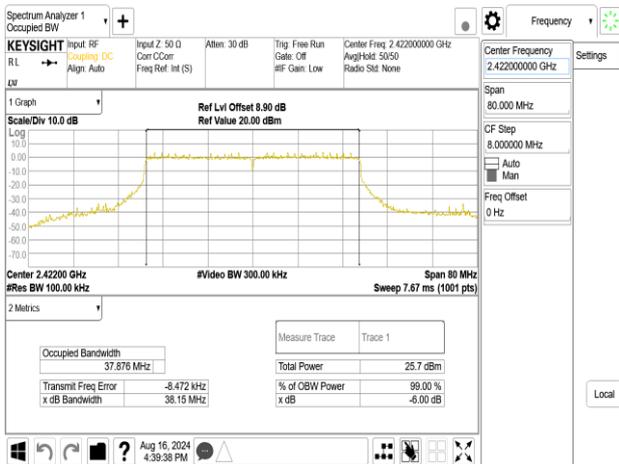


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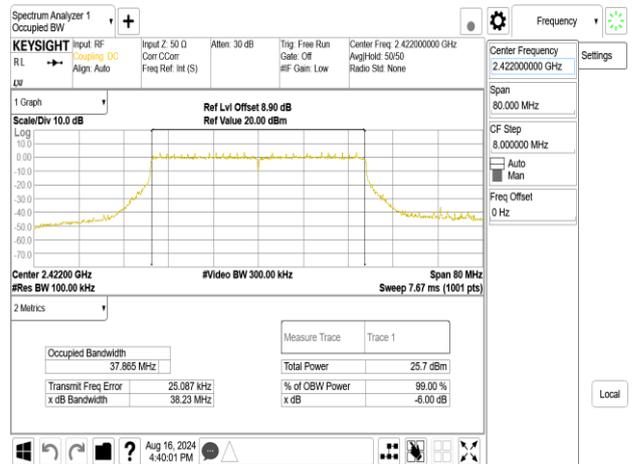
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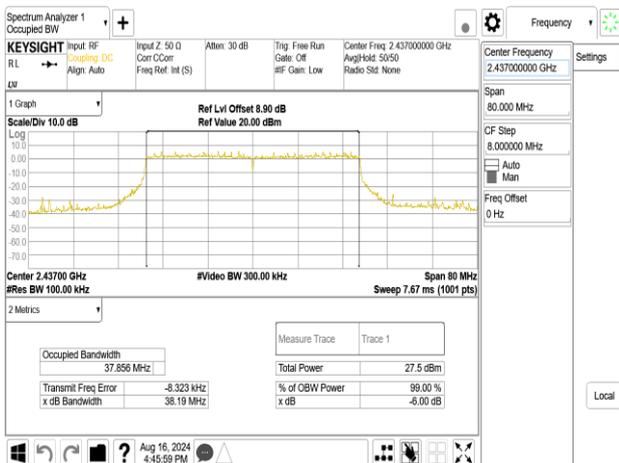
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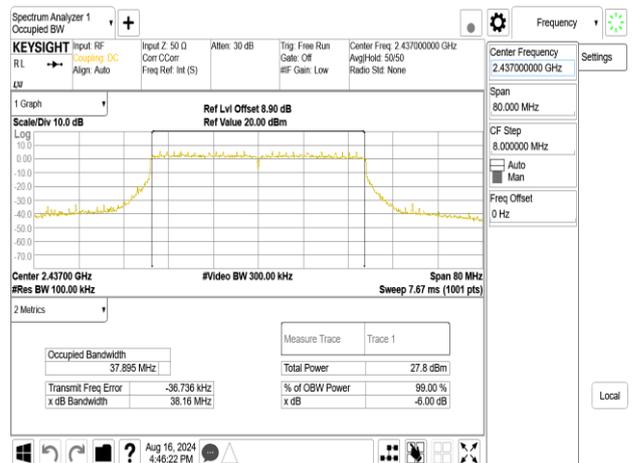
802.11be_40MHz_Chain1_2422MHz



802.11be_40MHz_Chain0_2437MHz



802.11be_40MHz_Chain1_2437MHz



802.11be_40MHz_Chain0_2452MHz



802.11be_40MHz_Chain1_2452MHz



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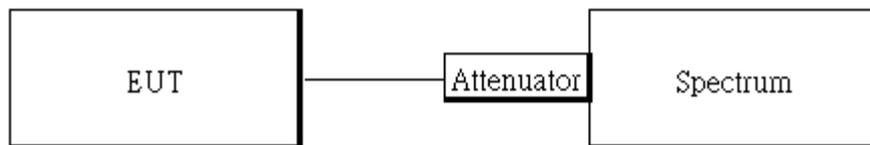
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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

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

10.2 Test Setup



10.3 Measurement Procedure

10.3.1 Reference Level of Emission Limit:

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 100kHz & VBW = 300 kHz.
5. Detector = peak
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna.

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10.3.2 Conducted Band Edge:

1. To connect Antenna Port of EUT to Spectrum.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Detector = Peak, Sweep = auto
6. Mark the highest reading of the emission as the reference level measurement.
7. Set DL as the limit = reading on marker of reference level measurement -20dBm
8. Mark the highest readings of the emissions outside of 2400MHz~2483.5MHz.
9. Repeat above procedures until all default test channel (low, middle, and high) was complete.
10. MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna.

10.3.3 Conducted Spurious Emission:

1. To connect Antenna Port of EUT to Spectrum
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Set RBW = 100 kHz & VBW= 300 kHz, Detector =Peak, Sweep = Auto.
4. Allow trace to fully stabilize.
5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
6. Repeat above procedures until all default test channel measured were complete.
7. MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna.

Note:

For test of MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported on this report after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome.

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10.4 Measurement Result

802.11b Ch0

Reference Level of Limit			Reference Level of Limit		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)	Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	14.84	-5.16	2412	14.85	-5.15
2437	16.01	-3.99	2437	15.94	-4.06
2462	14.43	-5.57	2462	13.77	-6.23

802.11b Ch1
802.11g Ch0

Reference Level of Limit			Reference Level of Limit		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)	Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	7.19	-12.81	2412	7.46	-12.54
2437	10.85	-9.15	2437	10.65	-9.35
2462	7.20	-12.80	2462	6.70	-13.30

802.11g Ch1
802.11be_EHT_20M Ch0

Reference Level of Limit			Reference Level of Limit		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)	Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	4.55	-15.45	2412	5.21	-14.79
2437	9.86	-10.14	2437	10.00	-10.00
2462	6.52	-13.48	2462	5.68	-14.32

802.11be_EHT_20M Ch1
802.11be_EHT_40M Ch0

Reference Level of Limit			Reference Level of Limit		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)	Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2422	3.12	-16.88	2422	3.41	-16.59
2437	5.34	-14.66	2437	5.52	-14.48
2452	4.3	-15.70	2452	4.55	-15.45

802.11be_EHT_40M Ch1

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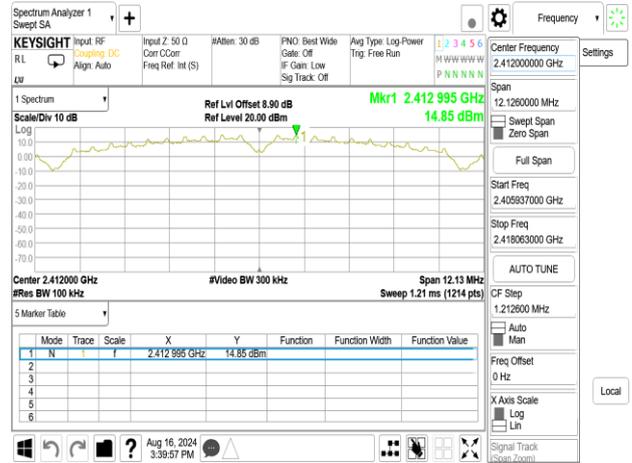
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802.11b_20MHz_Chain0_2412MHz



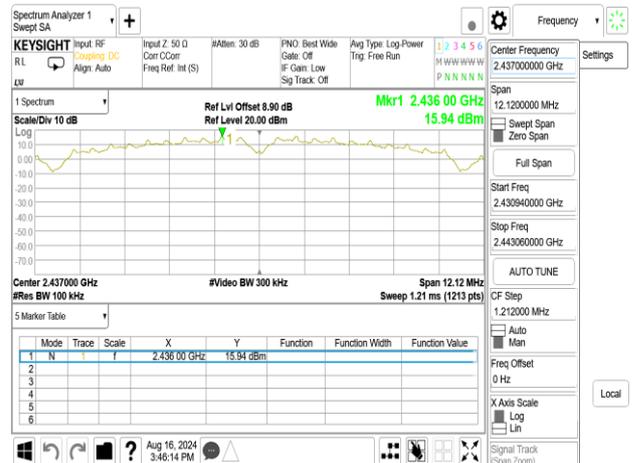
802.11b_20MHz_Chain1_2412MHz



802.11b_20MHz_Chain0_2437MHz



802.11b_20MHz_Chain1_2437MHz



802.11b_20MHz_Chain0_2462MHz



802.11b_20MHz_Chain1_2462MHz

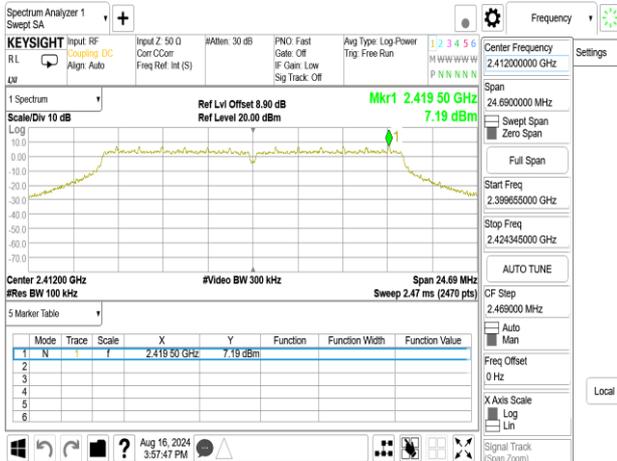


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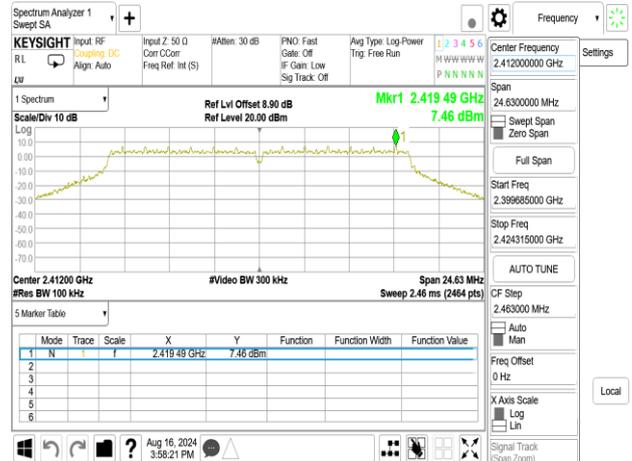
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802.11g_20MHz_Chain0_2412MHz



802.11g_20MHz_Chain1_2412MHz



802.11g_20MHz_Chain0_2437MHz



802.11g_20MHz_Chain1_2437MHz



802.11g_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain1_2462MHz



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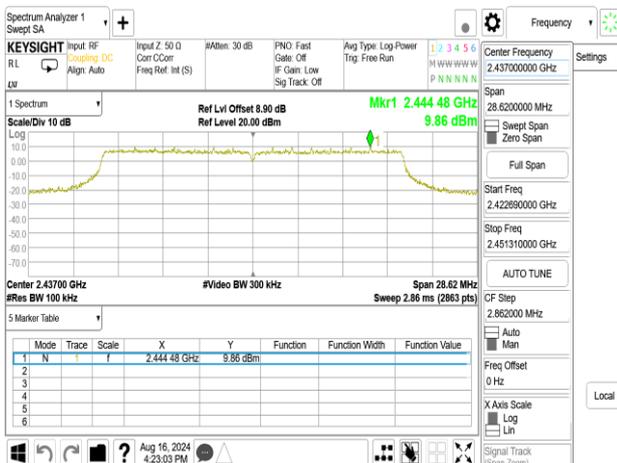
802.11be_20MHz_Chain0_2412MHz



802.11be_20MHz_Chain1_2412MHz



802.11be_20MHz_Chain0_2437MHz



802.11be_20MHz_Chain1_2437MHz



802.11be_20MHz_Chain0_2462MHz



802.11be_20MHz_Chain1_2462MHz



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802.11be_40MHz_Chain0_2422MHz



802.11be_40MHz_Chain1_2422MHz



802.11be_40MHz_Chain0_2437MHz



802.11be_40MHz_Chain1_2437MHz



802.11be_40MHz_Chain0_2452MHz



802.11be_40MHz_Chain1_2452MHz

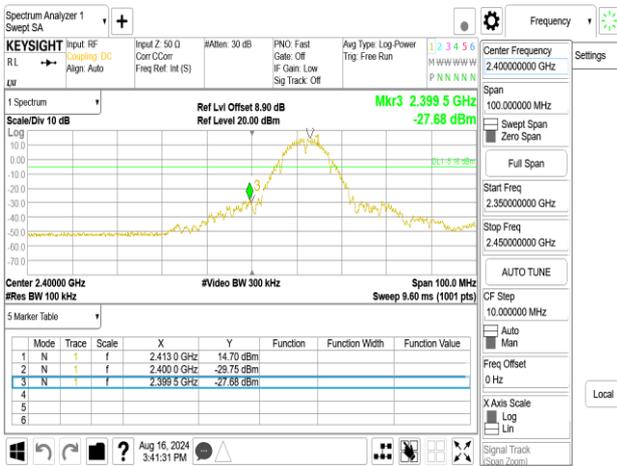


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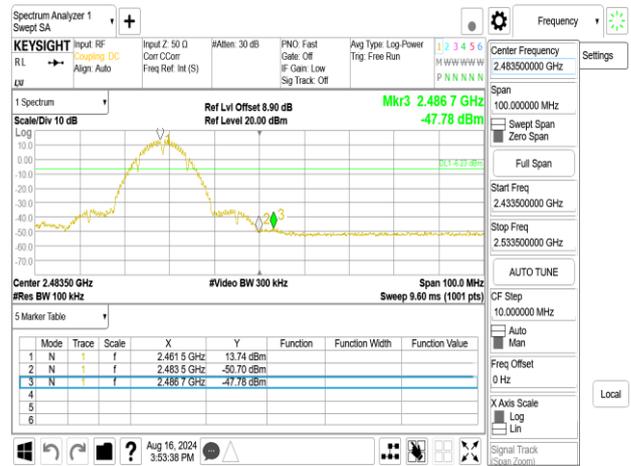
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802.11b_20MHz_Chain0_2412MHz



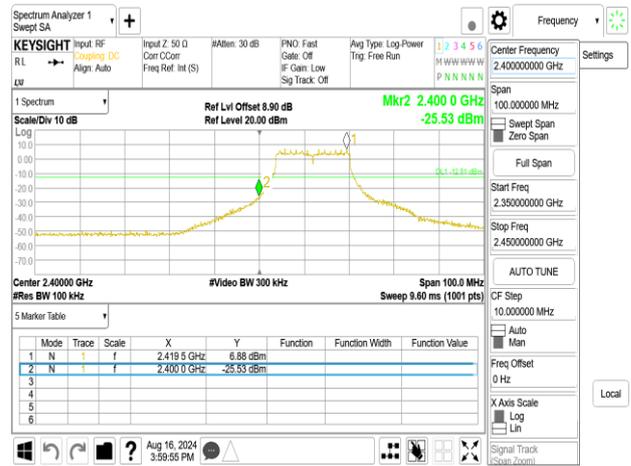
802.11b_20MHz_Chain1_2462MHz



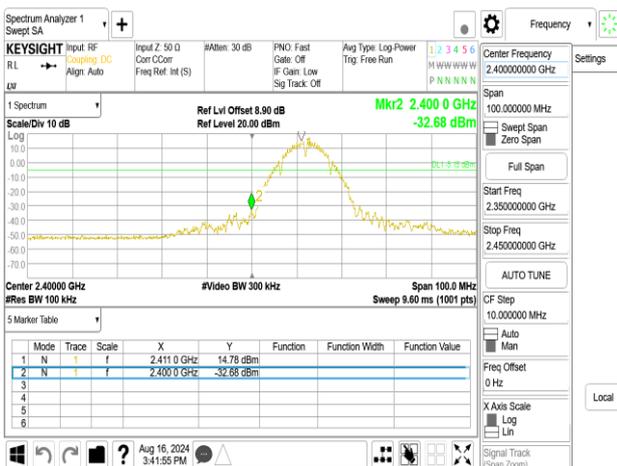
802.11b_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2412MHz



802.11b_20MHz_Chain1_2412MHz



802.11g_20MHz_Chain0_2462MHz



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