

# ELECTROMAGNETIC EMISSIONS **COMPLIANCE REPORT**



Applicant: Manufacturer:	HTC Corporation No. 88, Section 3, Zhongxing Rd. Xindian Dist., New Taipei City 231, Taiwan HTC Corporation No. 88, Section 3, Zhongxing Rd. Xindian Dist., New Taipei City 231, Taiwan
Product Name:	Headset
Brand Name:	VIVE
Model No.:	2QBB100
Model Difference:	N/A
Report Number:	TERF2207001114E2
FCC ID	NM82QBB100
Date of EUT Received:	Jul. 19, 2022
Date of Test:	Jul. 27, 2022~Sep. 28, 2022
Issue Date:	Nov. 25, 2022

lito Pei

Approved By

Vito Pei

### 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					
TERF2207001114E2	00	Original.	Nov. 16, 2022	Yi-Shan Tsai						
TERF2207001114E2 01		Update Brand of Adapter	Nov. 25, 2022	Yi-Shan Tsai	*					

### Note:

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

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#### **GENERAL INFORMATION** 1

#### 1.1 **Product Description**

Product Name:	Headset
Brand Name:	VIVE
Model No.:	2QBB100
Model Difference:	N/A
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	TE-2207000102P M1 E2 (Conducted) TE_SP_20220905591 (Conduction  Radiated)
Power Supply:	Battery Cradle 5V 3A, 9V 1.57A, 12V 1.5A
Test Software (Name/Version)	QRCT V4.0.00163.0 / QSPR V5.0.00188 (Conducted) adb tool / V6.1 & QRCT / V4.0 & QSPR / V5.0 (Conduction

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#### **RF** Specification 1.2

### WLAN 2.4GHz

Wi-Fi	Frequency	Channels	Rated Pov	Rated Power (dBm)				
VVI-F1	Range	Channels	Peak	Avg.	Technology			
802.11b	2412~2462	11	24.15	18.85	DSSS			
802.11g	2412~2462	11	28.03	19.92	OFDM			
802.11n20	2412~2462	11	28.22	19.95	OFDM			
802.11n40	2422~2452	7	28.47	19.84	OFDM			
802.11ac20	2412~2462	11	28.11	19.87	OFDM			
802.11ac40	2422~2452	7	27.67	19.77	OFDM			
802.11ax20	2412~2462	11	28.48	19.90	OFDMA			
802.11ax40	2422~2452	7	28.54	19.85	OFDMA			
		CCK, DQPSK, DBPSK for DSSS						
		256 QAM, 64QAM, 16QAM, QPSK, BPSK for						
Modulatio	n type:	OFDM						
		1024 QAM, 256 QAM , 64QAM, 16QAM, QPSK,						
		BPSK for OFDMA						
		802.11 b: 1/2/5.5/11 Mbps						
		802.11 g: 6/9/12/18/24/36/48/54 Mbps						
Dete D	lata	802.11 n_20MHz:up to 144.4Mbps						
Data R	ale.	802.11 n_40MHz:up to 300Mbps						
		802.11 ax_20MHz:up to 286.8Mbps						
		802.11 ax_40MHz:up to 573.6Mbps						

#### 1.3 **Antenna Designation**

Antenna Type	Freq. (MHz)	Peak Antenna Gain (dBi)	Direction Gain(dBi)
Dipole	2412~2462	0.41	4.06
Dipole	2412~2462	1.65	4.06

### 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.

Directional gain =  $10 \log[(10^{G_I/20} + 10^{G_2/20} + ... + 10^{G_N/20})^2 / N_{ANT}] dBi$ 

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#### **Test Methodology of Applied Standards** 1.4

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

#### 1.5 **Test Facility**

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion number	IC CAB identifier
		SAC 1		
		SAC 2		
		SAC 3		
	No.134, Wu Kung Road, New Taipei	Conduction 1		
		Conducted 1		
	Industrial Park, Wuku District, New	Conducted 2	TW0027	TW3702
	Taipei City, Taiwan.	Conducted 3		
		Conducted 4		
		Conducted 5		
SGS Taiwan Ltd.		Conducted 6		
Central RF Lab.		Conduction C	_	
		SAC C		
(TAF code 3702)		SAC D		
		SAC G		
	No 2 Kaji 1at Rd. Qujahan District	Conducted A		
	No.2, Keji 1st Rd., Guishan District,	Conducted B	TW0028	
	Taoyuan City, Taiwan 333	Conducted C		
		Conducted D		
		Conducted E	1	
		Conducted F		
		Conducted G		

tion where measurements occurred in specific test site and address.

#### 1.6 **Special Accessories**

There are no special accessories used while test was conducted.

#### 1.7 Equipment Modifications

There was no modification incorporated into the EUT.

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#### SYSTEM TEST CONFIGURATION 2

#### 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 a 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.

#### **Radiated Emissions** 2.3.3

The EUT is a 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.

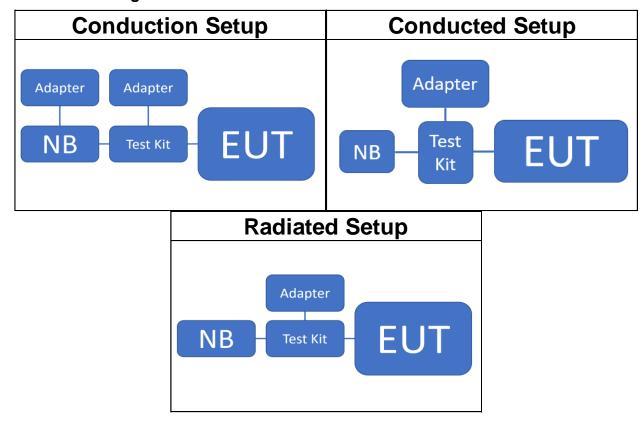
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2.5 **Test Configuration** 



#### 2.6 Control Unit(s)

	AC Powe	r-Line Conducted Emissic	on Test Site: Conduction	С		
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.	
Notebook	Lenovo	T440p	P0000665	N/A	N/A	
Adapter	Lenovo	ADLX90NLC3A	N/A	N/A	N/A	
1.2M C-to-C cable	VIVE	C807M3A03E1M2	N/A	N/A	N/A	
USB Cable	Hawk	CAD150	N/A	N/A	N/A	
PD adapter	HTC	TC PD30W-WW	N/A	N/A	N/A	
Test kit	VIVE	2QBB100-TB	N/A	N/A	N/A	
	(	Conducted Emission Test	Site: Conducted D			
EQUIPMENT TYPE	EQUIPMENT TYPE MFR		SERIAL NUMBER	LAST CAL.	CAL DUE.	
USB Cable	Hawk	CAD150	N/A	N/A	N/A	
PD adapter	HTC	TC PD30W-WW	N/A	N/A	N/A	
Test kit	VIVE	2QBB100-TB	N/A	N/A	N/A	
Notebook	ebook Lenovo T420		S0012599	N/A	N/A	
		Radiated Emission Te	est Site: SAC D			
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.	
Notebook	Lenovo	T440p	P0000665	N/A	N/A	
USB Cable	Hawk	CAD150	N/A	N/A	N/A	
PD adapter	HTC	TC PD30W-WW	N/A	N/A	N/A	
Test kit	VIVE	2QBB100-TB	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
§15.205 §15.209 §15.247(d)	Radiated & Conducted Band Edge and Spurious Emission	Compliant
§15.247(e)	Power Spectral Density	Compliant
§15.203	Antenna Requirement	Compliant

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#### DESCRIPTION OF TEST MODES 4

#### 4.1 **Operatin Frequencies**

Modulation	of BW 20MHz	Modulation o	f BW 40MHz		
CHANNEL	FREQUENCY (MHz)	CHANNEL	FREQUENCY (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	10	2457		
9	2452	11	2462		
10	2457				
11	2462				

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#### The Worst Test Modes and Channel Details 4.2

- 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 gevin UE is pre-scanned among below modes.

											Single		Multi
	Modulation Transmission Chain Transmission				Transmission Chain						ransmission	Т	ransmission
								Spatial		Spatial			
v	802.11 b	۷	Ch0	۷	Ch1		Ch2		Ch3	۷	1TX		2TX
v	802.11 g	۷	Ch0	۷	Ch1		Ch2		Ch3		1TX	۷	2TX
v	802.11 n	۷	Ch0	۷	Ch1		Ch2		Ch3		1TX	۷	2TX
v	802.11 ax	۷	Ch0	۷	Ch1		Ch2		Ch3		1TX	۷	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.
- 5. Observations have been done for 802.11 ax available RU configurations below and found that the lowest, heighest and Full RU results higher emissions. Only one RU can be enabled at any given time.

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### Report No.: TERF2207001114E2 Page: 13 of 179

<b>8</b> 02.11ax		20	MHz			<b>8</b> 02.11ax			40MHz		
RU type	26	6-tone RU	ne RU 52-tone RU			RU type	26-	tone RU		52-tone RU	
	RU0	[-121: -96]	RU37	[-121: -70]			RU0	[-243: -218]	RU37	[-243: -192]	
	RU1	[-95: -70]	RU38	[-68: -17]			RU1	[-217: -192]	RU38	[-189: -138]	
	RU2	[-68: -43]	RU39	[17: 68]			RU2	[-189: -164]	RU39	[-109: -58]	
	RU3	[-42: -17]	RU40	[70: 121]			RU3	[-163: -138]	RU40	[-55: -4]	
	RU4	[-16: -4, 4: 16]	RU41	N/A			RU4	[-136: -111]	RU41	[4: 55]	
	RU5	[17: 42]	RU42	N/A			RU5	[-109: -84]	RU42	[58: 109]	
	RU6	[43: 68]	RU43	N/A			RU6	[-83: -58]	RU43	[138: 189]	
	RU7	[70: 95]	RU44	N/A			RU7	[-55: -30]	RU44	[192: 243]	
	RU8	[96: 121]	RU45	N/A			RU8	[-29: -4]	RU45	N/A	
	RU9	N/A	RU46	N/A			RU9	[4: 29]	RU46	N/A	
	RU10	N/A	RU47	N/A			RU10	[30: 55]	RU47	N/A	
	RU11	N/A	RU48	N/A			RU11	[58: 83]	RU48	N/A	
	RU12	N/A	RU49	N/A			RU12	[84: 109]	RU49	N/A	
	RU13	N/A	RU50	N/A			RU13	[111: 136]	RU50	N/A	
	RU14	N/A	RU51	N/A			RU14	[138: 163]	RU51	N/A	
	RU15	N/A	RU52	N/A			RU15	[164: 189]	RU52	N/A	
	RU16	N/A					RU16	[192: 217]			
RU index and	RU17	N/A	10	06-tone RU		RU index and	RU17	[218: 243]	1	06-tone RU	
subcarrier	RU18	N/A	RU53	[-122: -17]		subcarrier range	RU18	N/A	RU53	[-243: -138]	
range	RU19	N/A	RU54	[17: 122]			RU19	N/A	RU54	[-109: -4]	
	RU20	N/A	RU55	N/A			RU20	N/A	RU55	[4: 109]	
	RU21	N/A	RU56	N/A			RU21	N/A	RU56	[138: 243]	
	RU22	N/A	RU57	N/A			RU22	N/A	RU57	N/A	
	RU23	N/A	RU58	N/A			RU23	N/A	RU58	N/A	
	RU24	N/A	RU59	N/A			RU24	N/A	RU59	N/A	
	RU25	N/A	RU60	N/A			RU25	N/A	RU60	N/A	
	RU26	N/A					RU26	N/A			
	RU27	N/A	24	42-tone RU			RU27	N/A	2	42-tone RU	
	RU28	N/A	RU61	[-122: -2, 2:122]			RU28	N/A	RU61	[-244: -3]	
	RU29	N/A	RU62	N/A			RU29	N/A	RU62	[3: 244]	
	RU30	N/A	RU63	N/A			RU30	N/A	RU63	N/A	
	RU31	N/A	RU64	N/A			RU31	N/A	RU64	N/A	
	RU32	N/A					RU32	N/A			
	RU33	N/A					RU33	N/A	4	84-tone RU	
	RU34	N/A					RU34	N/A	RU65	[-244: -3, 3: 244]	
	RU35	N/A					RU35	N/A	RU66	N/A	
	RU36	N/A					RU36	N/A			

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Conducted							
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT		
802.11b	1 to 11	1,2,6,10,11	DSSS	1	ch0		
802.11g	1 to 11	1,6,11	OFDM	6	2TX		
802.11n (HT20)	1 to 11	1,6,11	OFDM	MCS0	2TX		
802.11n (HT40)	3 to 9	3,6,9	OFDM	MCS0	2TX		
802.11ax (HE20)	1 to 11	1,6,11	OFDMA	MCS0	2TX		
802.11ax (HE40)	3 to 9	3,6,8,9	OFDMA	MCS0	2TX		

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		
802.11n (HT40)	3 to 9	6	OFDM	MCS0	2TX		

RADIATED EMISSION TEST (ABOVE 1 GHz)							
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT		
802.11b	1 to 11	1,2,6,10,11	DSSS	1	ch0		
802.11g	1 to 11	1,6,11	OFDM	6	2TX		
802.11n (HT20)	1 to 11	1,6,11	OFDM	MCS0	2TX		
802.11n (HT40)	3 to 9	3,6,9	OFDM	MCS0	2TX		
802.11ax (HE20)	1 to 11	1,6,11	OFDMA	MCS0	2TX		
802.11ax (HE40)	3 to 9	3,6,8,9	OFDMA	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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#### **MEASUREMENT UNCERTAINTY** 5

Test Items	Un	certain	ty
AC Power Line Conducted Emission	+/-	2.34	dB
Output Power measurement	+/-	1	dB
Emission Bandwidth	+/-	1.53	Hz
Undesignable radiated emission measurement	+/-	1.68	dB
Peak Power Density	+/-	1.62	dB
Temperature	+/-	0.4	°C
Humidity	+/-	3.5	%
DC / AC Power Source	+/-	1	%

Radiated Spurious Emission Measurement Uncertainty					
	+/-	2.57	dB	9kHz~30MHz	
Delevier (iew.) Vertical	+/-	4.85	dB	30MHz - 1000MHz	
Polarization: Vertical	+/-	4.45	dB	1GHz - 18GHz	
	+/-	4.24	dB	18GHz - 40GHz	
	+/-	2.57	dB	9kHz~30MHz	
Delevientieus Hevienutel	+/-	4.37	dB	30MHz - 1000MHz	
Polarization: Horizontal	+/-	4.45	dB	1GHz - 18GHz	
	+/-	4.24	dB	18GHz - 40GHz	

### 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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#### MEASUREMENT EQUIPMENT USED 6

#### 6.1 **Emission from AC power line**

AC Power-Line Conducted Emission Test Site: Conduction C							
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
LISN	SCHWARZBECK Mess- Elektronik	NSLK8127	973	04/13/2022	04/12/2023		
EMI Test Receiver	R&S	ESCI	101342	04/25/2022	04/24/2023		
Coaxial Cable	EC La b	RF-HY-CAB-250	RF-HY-CAB-250-01	03/27/2022	03/26/2023		
Pulse Limiter	EC La b	VTSD 9561F-N	485	03/27/2022	03/26/2023		
Test Software	audix	e3	E3 20923 SGS Ver.9 ( C )	N.C.R	N.C.R		

#### **Condcuted Measurement** 6.2

Conducted Emission Test Site: Conducted D							
EQUIPMENT TYPE	MFR	MODEL NUMBER SERIAL NUMBER LAST CAL. C					
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071573	05/16/2022	05/15/2023		
Power Meter	Anritsu	ML2496A	1512003	07/26/2022	07/25/2023		
Power Sensor	Anritsu	MA2411B	1339378	07/26/2022	07/25/2023		
Power Sensor	Anritsu	MA2411B	1339379	07/26/2022	07/25/2023		
Attenuator	Marvelous	WATT-218FS-10	RF16	11/18/2021	11/17/2022		
Attenuator	Marvelous	WATT-218FS-10	RF23	11/18/2021	11/17/2022		
DC Block	PASTERNACK	PE8210	RF158	11/18/2021	11/17/2022		

#### 6.3 **Radiated Measurement**

	Radiated Emission Test Site: SAC D							
EQUIPMENT TYPE	MFR	MFR MODEL NUMBER SERIAL NUMBER		LAST CAL.	CAL DUE.			
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-617	11/12/2021	11/11/2022			
Horn Antenna	Schwarzbeck	BBHA9170	185	08/22/2022	08/21/2023			
Horn Antenna	Schwarzbeck	BBHA9170	184	12/16/2021	12/15/2022			
Horn Antenna	Schwarzbeck	BBHA9120D	1341	05/31/2022	05/30/2023			
Loop Antenna	ETS.LINDGREN	6502	143303	05/14/2022	05/13/2023			
3m Site NSA	SGS	966 chamber D	N/A	04/30/2022	04/29/2023			
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/24/2022	03/23/2023			
Test Software	audix	e3	E3 20923 SGS Ver.9 ( C )	N.C.R	N.C.R			
Pre-Amplifier	EMCInstruments	EMC184045B	980135	10/27/2021	10/26/2022			
Pre-Amplifier	EMCInstruments	EMC9135	980234	11/18/2021	11/17/2022			
Pre-Amplifier	EMCInstruments	EMC12630SE	980273	11/18/2021	11/17/2022			
Attenuator	Marvelous	MVE2213-10	RF05	11/18/2021	11/17/2022			
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	11/18/2021	11/17/2022			
Coaxial Cable	Huber Suhner	EMC106-SM-SM-7200	150703	11/18/2021	11/17/2022			
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17413/4	11/18/2021	11/17/2022			

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

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#### CONDUCTED EMISSION TEST 7

#### 7.1 **Standard Applicable**

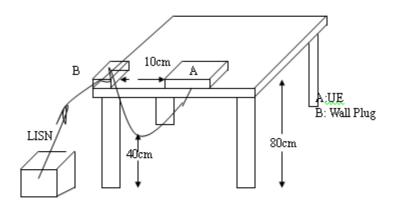
Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

Frequency range	Limits (dBuV)					
MHz	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						
1.The lower limit shall apply at the transition frequencies						
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.						

#### 7.2 **EUT Setup**

- 1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
- 2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
- 3. 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.
- Repeat above procedures until all phases of power being supplied by given UE are completed 3.

#### 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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# **AC POWER LINE CONDUCTED EMISSION TEST DATA**

Report Number Test Mode Power Probe	:TERF220 :802.11b :120V/60ł :L1	07001114E2 Hz	Test Si Test Da Temp./ Engine	ate :2022-( Humi. :24.7/5		
80 Level ( 70.0 60.0 50.0 2 40.0 30.0 20.0 10.0 0.15	dBuV)				20 30	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS		
MHz	PK/QP/AV	dBµV	dB	dBμV	dBμV	dB
0.153 0.153	Average QP	17.40 36.30	10.30 10.30	27.70 46.60	55.82 65.82	-28.12 -19.22
0.187	Peak	38.56	10.30	48.86	64.15	-15.29
0.280	Peak	33.14	10.30	43.44	60.81	-17.36
0.608	Peak	31.41	10.32	41.73	56.00	-14.27
1.223	Peak	26.97	10.58	37.55	56.00	-18.45
3.041	Peak	24.62	10.88	35.50	56.00	-20.50

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Report Number		7001114E2	Test Site	:Conductio		
Test Mode	:802.11b		Test Date	:2022-09-2	28	
Power	:120V/60H	Z	Temp./Hum			
Probe	:N		Engineer	:Howard F	luang	
80 Level (	dBuV)					
70.0						
60.0						
50.0						
40.0	Mr.	5 6	7			
30.0	M. Warden	1 manual and	Marshar has marked	m	n M	
20.0					W.	
10.0						
0.15	0.5	1 Freque	2 5 ency (MHz)	10	20 30	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode F	Reading Level		FS		
MHz I	PK/QP/AV	dBµV	dB	dBµV	dBµV	dB
0.153	Average	15.30	10.31	25.61	55.82	-30.21
0.153	QP	33.80	10.31	44.11	65.82	-21.71
0.169	Peak	39.77	10.31	50.07	65.03	-14.96
0.280	Peak	32.09	10.31	42.40	60.81	-18.41
0.608	Peak	30.35	10.33	40.68	56.00	-15.32
1.223	Peak	25.62	10.59	36.21	56.00	-19.79
3.041	Peak	24.09	10.89	34.98	56.00	-21.02

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#### PEAK OUTPUT POWER MEASUREMENT 8

#### 8.1 **Standard Applicable**

#### 8.2 **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.

#### 8.3 **Output Power**

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 form 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.

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### Note:

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.

• 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

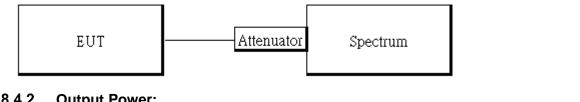
 $g_{i,k} = 10^{G_{k/20}}$  if the kth antenna is being fed by spatial stream j, or zero if it is not;

G<sub>k</sub> is the gain in dBi of the kth antenna.

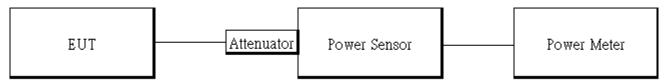
The antenna gain is not greater than 6 dBi. Therefore, reduction of power is not required.

#### 8.4 **Test Setup**

#### 8.4.1 **Duty Cycle**



#### 8.4.2 **Output Power:**



#### 8.5 **Measurement Procedure**

#### 8.5.1 **Duty Cycle:**

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

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#### 8.5.2 **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.

#### 8.6 Measurement Result

8.6.1 **Duty Cycle:** 

	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log ( 1/Duty Cycle )	1/T (kHz)	VBW setting (kHz)
802.11b	98.14	0.08	1.51	0.01
802.11g	99.24	0.03	0.48	0.01
802.11n_20	99.71	0.01	0.18	0.01
802.11n_40	99.71	0.01	0.18	0.01
802.11ac_20	99.71	0.01	0.18	0.01
802.11ac_40	99.71	0.01	0.18	0.01
802.11ax_20	99.71	0.01	0.18	0.01
802.11ax_40	99.71	0.01	0.18	0.01

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#### 8.6.2 **Duty Cycle test plots**

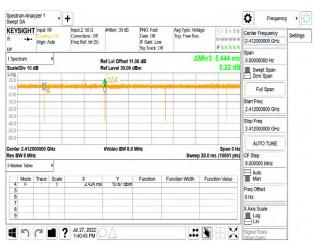
802.11b\_20MHz\_Chain0\_2412MHz

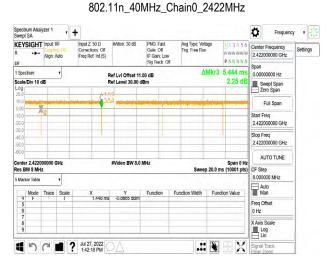


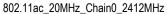
802.11g 20MHz Chain0 2412MHz

Swept SA	T Inout RE		Input Z: 50 Q	WAtten: 30 dB	PNO: Fast	Awg Type: Vo	itago	123456			-	1
			Corrections Off Frog Rof: Int (S)		Gale: Off IF Gain: Low	Trig Free Ru		W WW WW W		r Frequency 000000 GHz	Setti	ngs
NI NI				1 I.	Sig Track O			PNNNN				
Spectrum	,		R	tef Lvi Offset 11.	00 dB	- 1	AMkr3	2.112 ms	Span 0.000	00000 Hz		
cale/Div 10	dB			tef Level 30.00 d				0.70 dB	s	wept Span		
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8									X Axis	Scale		
9									<b>_</b>	og		
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### 802.11n 20MHz Chain0 2412MHz

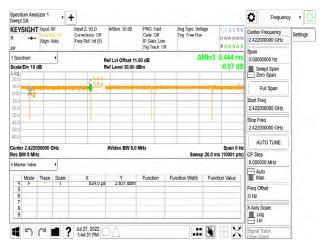








### 802.11ac 40MHz Chain0 2422MHz



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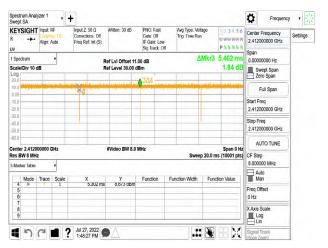
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### 802.11ax\_20MHz\_Chain0\_2412MHz



802.11ax 40MHz Chain0 2422MHz



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#### 8.6.3 **Output Power**

802.1	1b Ch0					
сн	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	15	20.82	30.00	PASS
2	2417	1	19	24.15	30.00	PASS
6	2437	1	18	23.62	30.00	PASS
10	2457	1	19	24.09	30.00	PASS
11	2462	1	13	18.18	30.00	PASS
802.1	1b Ch0					
		_		Max. Avg. Output		
СН	Freq. (MHz)	Data Rate	Power set	include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	1	15	15.37	30.00	PASS
2	2417	1	19	18.85	30.00	PASS
6	2437	1	18	18.19	30.00	PASS
10	2457	1	19	18.81	30.00	PASS
11	2462	1	13	12.76	30.00	PASS

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802.1	1b Ch1					
СН	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	15	20.63	30.00	PASS
2	2417	1	19	24.06	30.00	PASS
6	2437	1	18	23.47	30.00	PASS
10	2457	1	19	23.99	30.00	PASS
11	2462	1	13	18.03	30.00	PASS
802.1	1b Ch1		· · ·			
СН	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	1	15	15.23	30.00	PASS
2	2412	1	19	18.78	30.00	PASS
6	2437	1	13	18.10	30.00	PASS
10	2457	1	10	18.73	30.00	PASS
11	2462	1	13	12.65	30.00	PASS
			15	12.05	50.00	1700
802.1 CH	1g Ch0 Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	16.5	24.87	30.00	PASS
6	2437	6	17	24.65	30.00	PASS
11	2462	6	17	24.68	30.00	PASS
802.1	1g Ch0					
СН	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	6	16.5	16.85	30.00	PASS
6	2437	6	17	16.76	30.00	PASS
11	2462	6	17	16.80	30.00	PASS

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802.1	1g Ch1					
СН	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	17	24.69	30.00	PASS
6	2437	6	17.5	24.52	30.00	PASS
11	2462	6	17.5	24.55	30.00	PASS
802.1	1g Ch1	•			•	
СН	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	6	17	16.80	30.00	PASS
6	2437	6	17.5	16.68	30.00	PASS
11	2462	6	17.5	16.74	30.00	PASS

802.1 <sup>°</sup>	1g_2TX							
СН	Freq. (MHz)	Data Rate	Power set	_	Dutput wer	Total Peak Output Power	Limit (dBm)	RESULT
		Nate	501	CH 0	CH 1	(dBm)		
1	2412	6	17	25.27	24.75	28.03	30.00	PASS
6	2437	6	17	24.88	24.42	27.67	30.00	PASS
11	2462	6	17.5	24.93	24.46	27.71	30.00	PASS
802.1 <sup>,</sup>	1g_2TX		·					·
				Avg. C	Dutput	Max. Avg. Output		
<b>0</b> 11	Freq.	Data	Power	Po	wer	include tune up	Limit	
СН	(MHz)	Rate	set	(dE	Bm)	tolerance Power	(dBm)	RESULT
				CH 0	CH 1	(dBm)		
1	2412	6	17	17.11	16.63	19.92	30.00	PASS
6	2437	6	17	16.98	16.53	19.80	30.00	PASS
11	2462	6	17.5	17.08	16.59	19.88	30.00	PASS

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802.1 <sup>-</sup>	802.11nHT_20M Ch0											
СН	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT						
1	2412	MCS0	17	25.15	30.00	PASS						
6	2437	MCS0	17	24.68	30.00	PASS						
11	2462	MCS0	17.5	24.75	30.00	PASS						
802.1 <sup>-</sup>	1nHT_20M	/I Ch0										
СН	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT						
1	2412	MCS0	17	16.86	30.00	PASS						
6	2437	MCS0	17	16.71	30.00	PASS						
11	2462	MCS0	17.5	16.83	30.00	PASS						

802.1 <sup>-</sup>	1nHT_20M	/I Ch1				
СН	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	17.5	25.02	30.00	PASS
6	2437	MCS0	17.5	24.57	30.00	PASS
11	2462	MCS0	18	24.65	30.00	PASS
802.1 <sup>-</sup>	1nHT_20N	/I Ch1				
СН	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power	Limit (dBm)	RESULT
				(dBm)		
1	2412	MCS0	17.5	16.79	30.00	PASS
6	2437	MCS0	17.5	16.67	30.00	PASS
11	2462	MCS0	18	16.75	30.00	PASS

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802.1	1n_HT20N	A_2TX						
СН	Freq. (MHz)	Data Rate	Power set		Dutput wer	Total Peak Output Power	Limit (dBm)	RESULT
	(141112)	Nate	361	CH 0	CH 1	(dBm)	(dBiii)	
1	2412	MCS0	17	25.47	24.93	28.22	30.00	PASS
6	2437	MCS0	17	24.92	24.45	27.70	30.00	PASS
11	2462	MCS0	17.5	25.06	24.52	27.81	30.00	PASS
802.1 <sup>-</sup>	1n_HT20N	M_2TX						
				Avg. C	Dutput	Max. Avg. Output		
СН	Freq.	Data	Power	Po	wer	include tune up	Limit	RESULT
	(MHz)	Rate	set	(dE	3m)	tolerance Power	(dBm)	RESULT
				CH 0	CH 1	(dBm)		
1	2412	MCS0	17	17.16	16.69	19.95	30.00	PASS
6	2437	MCS0	17	16.95	16.52	19.76	30.00	PASS
11	2462	MCS0	17.5	17.05	16.61	19.86	30.00	PASS

802.1 <sup>-</sup>	802.11nHT_40M Ch0											
СН	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT						
3	2422	MCS0	15.5	23.55	30.00	PASS						
6	2437	MCS0	17	24.70	30.00	PASS						
9	2452	MCS0	15.5	22.82	30.00	PASS						
802.1 <sup>-</sup>	1nHT_40N	/I Ch0										
СН	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT						
3	2422	MCS0	15.5	15.44	30.00	PASS						
6	2437	MCS0	17	16.77	30.00	PASS						
9	2452	MCS0	15.5	14.89	30.00	PASS						

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802.1	802.11nHT_40M Ch1											
СН	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT						
3	2422	MCS0	16	23.46	30.00	PASS						
6	2437	MCS0	17.5	24.59	30.00	PASS						
9	2452	MCS0	16	22.69	30.00	PASS						
802.1	1nHT_40N	/I Ch1				-						
СН	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT						
3	2422	MCS0	16	15.38	30.00	PASS						
6	2437	MCS0	17.5	16.71	30.00	PASS						
9	2452	MCS0	16	14.80	30.00	PASS						

802.1	1n_HT40N	/I_2TX						
сн	Freq. (MHz)	Data Rate	Power set	_	Dutput wer	Total Peak Output Power	Limit (dBm)	RESULT
	(11112)	Nate	301	CH 0	CH 1	(dBm)	(abiii)	
3	2422	MCS0	15.5	23.86	26.62	28.47	30.00	PASS
6	2437	MCS0	17	25.03	24.41	27.74	30.00	PASS
9	2452	MCS0	15.5	23.16	22.65	25.92	30.00	PASS
802.1 <sup>-</sup>	1n_HT40N	A_2TX	•					
				Avg. C	Dutput	Max. Avg. Output		
СН	Freq.	Data	Power	Po	wer	include tune up	Limit	RESULT
	(MHz)	Rate	set	(dE	Bm)	tolerance Power	(dBm)	RESULI
				CH 0	CH 1	(dBm)		
3	2422	MCS0	15.5	15.69	15.26	18.50	30.00	PASS
6	2437	MCS0	17	17.02	16.62	19.84	30.00	PASS
9	2452	MCS0	15.5	15.16	14.72	17.97	30.00	PASS

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802.1 <sup>-</sup>	802.11ac_VHT_20M Ch0											
СН	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT						
1	2412	MCS0	17	25.07	30.00	PASS						
6	2437	MCS0	17	24.65	30.00	PASS						
11	2462	MCS0	17.5	24.59	30.00	PASS						
802.1 <sup>-</sup>	1ac_VHT_	20M Ch0										
СН	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT						
1	2412	MCS0	17	16.81	30.00	PASS						
6	2437	MCS0	17	16.66	30.00	PASS						
11	2462	MCS0	17.5	16.75	30.00	PASS						

802.1 <sup>-</sup>	802.11ac_VHT_20M Ch1									
СН	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT				
1	2412	MCS0	17.5	24.97	30.00	PASS				
6	2437	MCS0	17.5	24.53	30.00	PASS				
11	2462	MCS0	18	24.46	30.00	PASS				
802.1 <sup>-</sup>	1ac_VHT_	20M Ch1								
СН	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT				
1	2412	MCS0	17.5	16.74	30.00	PASS				
6	2437	MCS0	17.5	16.60	30.00	PASS				
11	2462	MCS0	18	16.70	30.00	PASS				

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802.1	802.11ac_VHT20M_2TX										
СН	Freq. (MHz)	Data Rate	Power set	Peak Output Power		Total Peak Output Power	Limit (dBm)	RESULT			
	(11112)	nate		CH 0	CH 1	(dBm)	(abiii)				
1	2412	MCS0	17	25.41	24.77	28.11	30.00	PASS			
6	2437	MCS0	17	24.98	24.45	27.73	30.00	PASS			
11	2462	MCS0	17.5	24.85	24.39	27.64	30.00	PASS			
802.1	1ac_VHT2	0M_2TX									
				Avg. C	Dutput	Max. Avg. Output					
СН	Freq.	Data	Power	Po	wer	include tune up	Limit	RESULT			
	(MHz)	Rate	set	(dE	Bm)	tolerance Power	(dBm)	RESULT			
				CH 0	CH 1	(dBm)					
1	2412	MCS0	17	17.08	16.61	19.87	30.00	PASS			
6	2437	MCS0	17	16.87	16.48	19.70	30.00	PASS			
11	2462	MCS0	17.5	16.96	16.55	19.78	30.00	PASS			

802.11ac_VHT_40M Ch0									
СН	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT			
3	2422	MCS0	15.5	23.47	30.00	PASS			
6	2437	MCS0	17	24.63	30.00	PASS			
9	2452	MCS0	15.5	22.75	30.00	PASS			
802.1 <sup>-</sup>	1ac_VHT_	40M Ch0							
СН	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT			
3	2422	MCS0	15.5	15.37	30.00	PASS			
6	2437	MCS0	17	16.72	30.00	PASS			
9	2452	MCS0	15.5	14.83	30.00	PASS			

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802.1	802.11ac_VHT_40M Ch1									
СН	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT				
3	2422	MCS0	16	23.37	30.00	PASS				
6	2437	MCS0	17.5	24.52	30.00	PASS				
9	2452	MCS0	16	22.60	30.00	PASS				
802.1	1ac_VHT_	40M Ch1			-					
сн	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT				
3	2422	MCS0	16	15.31	30.00	PASS				
6	2437	MCS0	17.5	16.67	30.00	PASS				
9	2452	MCS0	16	14.72	30.00	PASS				

802.11ac_VHT40M_2TX										
сн	Freq. (MHz)	•	Power set	Peak Output Power		Total Peak Output Power	Limit (dBm)	RESULT		
	(141112)	Nate	361	CH 0	CH 1	(dBm)	(dbiii)			
3	2422	MCS0	15.5	23.81	23.25	26.55	30.00	PASS		
6	2437	MCS0	17	24.95	24.34	27.67	30.00	PASS		
9	2452	MCS0	15.5	23.09	22.57	25.85	30.00	PASS		
802.1 <sup>-</sup>	1ac_VHT4	0M_2TX				· · · · · · · · · · · · · · · · · · ·				
				Avg. C	Dutput	Max. Avg. Output				
СН	Freq.	Data	Power	Po	wer	include tune up	Limit	RESULT		
	(MHz)	Rate	set	(dE	Bm)	tolerance Power	(dBm)	REJULI		
				CH 0	CH 1	(dBm)				
3	2422	MCS0	15.5	15.62	15.21	18.44	30.00	PASS		
6	2437	MCS0	17	16.95	16.54	19.77	30.00	PASS		
9	2452	MCS0	15.5	15.08	14.64	17.89	30.00	PASS		

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802.1	1ax_HE_2	20M Ch0					
СН	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
			full	16	25.03	30.00	PASS
4	0440	MOCO	26/0	22	23.93	30.00	PASS
1	2412	MCS0	52/37	22	23.88	30.00	PASS
			106/53	22	23.85	30.00	PASS
6	2437	MCS0	full	17	25.42	30.00	PASS
			full	16.5	24.92	30.00	PASS
11	2462	MCS0	26/8	24	23.89	30.00	PASS
11		2402	INCSU	52/40	24	23.95	30.00
			106/54	24	23.99	30.00	PASS
802.1	1ax_HE_2	20M Ch0					
					Max. Avg. Output		
СН	Freq.	req. Data	RU	Power	include tune up	Limit	DECINT
СП	(MHz)	Rate	Config	set	tolerance Power	(dBm)	RESULT
					(dBm)		
			full	16	16.32	30.00	PASS
1	2412	MCS0	26/0	22	14.78	30.00	PASS PASS PASS PASS
1	2412	MC30	52/37	22	14.73	30.00	PASS
			106/53	22	14.70	30.00	PASS
6	2437	MCS0	full	17	16.86	30.00	PASS
			full	16.5	16.26	30.00	PASS
11	2462	MCS0	26/8	24	14.73	30.00	PASS
11	2402		52/40	24	14.71	30.00	PASS
			106/54	24	14.82	30.00	PASS

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802.1	1ax_HE_2	20M Ch1					
СН	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
			full	16.5	24.89	30.00	PASS
4	0440	MOCO	26/0	22	23.85	30.00	PASS
1	2412	MCS0	52/37	22	23.78	30.00	PASS
			106/53	22	23.72	30.00	PASS
6	2437	MCS0	full	17.5	25.30	30.00	PASS
			full	17	24.81	30.00	PASS
11	2462	MCS0	26/8	24	23.78	30.00	PASS
11	2402	INIC30	52/40	24	23.86	30.00	PASS
			106/54	24	23.89	30.00	PASS
802.1	1ax_HE_2	20M Ch1				•	
					Max. Avg. Output		
СН	Freq.	req. Data	RU	Power	include tune up	Limit	
СП	(MHz)	Rate	Config	set	tolerance Power	(dBm)	RESULT
					(dBm)		
			full	16.5	16.26	30.00	PASS
1	2412	MCS0	26/0	22	14.71	30.00	PASS PASS PASS PASS PASS PASS PASS PASS
	2412	101030	52/37	22	14.69	30.00	
			106/53	22	14.63	30.00	PASS
6	2437	MCS0	full	17.5	16.80	30.00	PASS
			full	17	16.21	30.00	PASS
11	2462	MCS0	26/8	24	14.64	30.00	PASS
	2402		52/40	24	14.61	30.00	PASS
			106/54	24	14.74	30.00	PASS

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802.1	1ax_HE20	M_2TX							
сн	Freq. (MHz)	Data Rate	RU Config	Power set	Po	Dutput wer	Total Peak Output Power	Limit (dBm)	RESULT
	()		-		CH 0	CH 1	(dBm)		
			full	16.5	25.33	24.88	28.12	30.00	PASS
1	2412 MCS0		26/0	23	24.25	23.90	27.09	30.00	PASS
'		111000	52/37	23	24.20	23.87	27.05	30.00	PASS
			106/53	23	24.17	23.84	27.02	30.00	PASS
6	2437	MCS0	full	17	25.68	25.25	28.48	30.00	PASS
			full	17	25.19	24.75	27.99	30.00	PASS
11	1 2462 MCS0		26/8	25	24.18	23.82	27.01	30.00	PASS
	2402	MCS0	52/40	25	24.20	23.85	27.04	30.00	PASS
			106/54	25	24.23	23.87	27.06	30.00	PASS
802.1 <sup>-</sup>	1ax_HE20	M_2TX							
					Avg. C	Dutput	Max. Avg. Output		
СН	Freq.	Data	RU	Power	Po	wer	include tune up	Limit	RESULT
	(MHz)	Rate	Config	set	(dE	3m)	tolerance Power	(dBm)	REJULI
					CH 0	CH 1	(dBm)		
			full	16.5	16.57	16.21	19.41	30.00	PASS
1	2412	MCS0	26/0	23	15.05	14.64	17.87	30.00	PASS
1	2412	MCS0	52/37	23	14.99	14.57	17.81	30.00	PASS
			106/53	23	14.95	14.52	17.76	30.00	PASS
6	2437	MCS0	full	17	17.06	16.69	19.90	30.00	PASS
			full	17	16.49	16.12	19.33	30.00	PASS
11	0400	MOOD	26/8	25	14.97	14.53	17.78	30.00	PASS
11	2462	MCS0	52/40	25	15.02	14.57	17.82	30.00	PASS
			106/54	25	15.06	14.61	17.86	30.00	PASS

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802.11	ax_HE_401	N ChO					
СН	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	15.5	24.11	30.00	PASS
<b>_</b>	2422	WICOU	242/61	21	23.85	30.00	PASS
6	2437	MCS0	full	17	25.50	30.00	PASS
9	2452	MCS0	full	17.5	22.98	30.00	PASS
3	2432	NCSU	242/62	24	23.80	30.00	PASS
802.11	ax_HE_401	A ChO					
	Freq.	Data	RU	Power	Max. Avg. Output include tune up	Limit	
СН	(MHz)	Rate	Config	set	tolerance Power	(dBm)	RESULT
					(dBm)		
3	2422	MCS0	full	15.5	15.37	30.00	PASS
<u> </u>	2422	NCSU	242/61	21	14.81	30.00	PASS
6	2437	MCS0	full	17	16.79	30.00	PASS
8	2447	MCS0	full	17.5	16.75	30.00	PASS
9	2452	MCS0	full	17.5	14.27	30.00	PASS
3	2432	WIC30	242/62	24	14.73	30.00	PASS

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802.11ax_HE_40M Ch1											
СН	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT				
3	2422	MCS0	full	16	23.97	30.00	PASS				
5	2422	MCSU	242/61	21	23.77	30.00	PASS				
6	2437	MCS0	full	17	25.40	30.00	PASS				
9	2452	MCS0	full	15.5	22.89	30.00	PASS				
9	2452	101030	242/62	24	23.73	30.00	PASS				
802.1	1ax_HE_4	0M Ch1									
СН	Freq. (MHz)	Data Rate	RU Config	Power	Max. Avg. Output include tune up	Limit	RESULT				
			Comig	set	tolerance Power (dBm)	(dBm)					
3	2422		full	<b>Set</b>		(dBm) 30.00	PASS				
3	2422	MCS0			(dBm)						
3	2422 2437		full	16	<b>(dBm)</b> 15.32	30.00	PASS				
		MCS0	full 242/61	16 21	<b>(dBm)</b> 15.32 14.74	30.00 30.00	PASS PASS				
6	2437	MCS0 MCS0	full 242/61 full	16 21 17	(dBm) 15.32 14.74 16.71	30.00 30.00 30.00	PASS PASS PASS				

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PASS

30.00



9

2452

MCS0

242/6

25

15.01

14.61

17.83

802.1 <sup>°</sup>	1ax_HE40	M_2TX							
СН	Freq. (MHz)	Data Rate	RU	Power		Dutput wer	Total Peak Output Power	Limit (dBm)	RESULT
		Rale	Config	set	CH 0	CH 1	(dBm)	(abiii)	
3	2422	MCS0	full	15.5	24.37	23.92	27.16	30.00	PASS
5	2422	10000	242/6	21	24.15	23.75	26.96	30.00	PASS
6	2437	MCS0	full	17	25.74	25.30	28.54	30.00	PASS
9	2452	MCS0	full	15	23.21	22.82	26.03	30.00	PASS
3	2452	10000	242/6	25	24.08	23.70	26.90	30.00	PASS
802.1 <sup>-</sup>	1ax_HE40	M_2TX	_						
					Avg. C	Dutput	Max. Avg. Output		
СН	Freq.	Data	RU	Power	Po	wer	include tune up	Limit	RESULT
	(MHz)	Rate	Config	set	(dE	Bm)	tolerance Power	(dBm)	REGOLI
					CH 0	CH 1	(dBm)		
3	2422	MCS0	full	15.5	15.63	15.24	18.46	30.00	PASS
	2722	10000	242/6	21	15.06	14.69	17.90	30.00	PASS
6	2437	MCS0	full	17	17.02	16.64	19.85	30.00	PASS
8	2447	MCS0	full	17	17.02	16.59	19.83	30.00	PASS
q	2452	MCSO	full	15	14.53	14.14	17.36	30.00	PASS

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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802.11	802.11b Ch0											
СН	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT					
1	2412	1	15.37	0.41	15.78	36	PASS					
2	2417	1	18.85	0.41	19.26	36	PASS					
6	2437	1	18.19	0.41	18.60	36	PASS					
10	2457	1	18.81	0.41	19.22	36	PASS					
11	2462	1	12.76	0.41	13.17	36	PASS					

802.11	802.11b Ch1											
СН	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT					
1	2412	1	15.23	1.65	16.88	36	PASS					
2	2417	1	18.78	1.65	20.43	36	PASS					
6	2437	1	18.10	1.65	19.75	36	PASS					
10	2457	1	18.73	1.65	20.38	36	PASS					
11	2462	1	12.65	1.65	14.30	36	PASS					

802.11	802.11g Ch0											
СН	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT					
1	2412	6	16.85	0.41	17.26	36	PASS					
6	2437	6	16.76	0.41	17.17	36	PASS					
11	2462	6	16.80	0.41	17.21	36	PASS					

802	1	1 n	Ch	1
0UZ		IY	GII	I

002.11							
СН	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	6	16.80	1.65	18.45	36	PASS
6	2437	6	16.68	1.65	18.33	36	PASS
11	2462	6	16.74	1.65	18.39	36	PASS

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802.11	802.11g_2TX											
СН	Freq. (MHz)	Data Rate	-	Dutput wer	Total Avg. Output Power			Limit (dBm)	RESULT			
		Nale	CH 0	CH 1	(dBm)	(dBi)	(ubiii)	(ubiii)				
1	2412	6	17.11	16.63	19.92	4.06	23.98	36	PASS			
6	2437	6	16.98	16.53	19.80	4.06	23.86	36	PASS			
11	2462	6	17.08	16.59	19.88	4.06	23.94	36	PASS			

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		••					
СН	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	16.86	0.41	17.27	36	PASS
6	2437	MCS0	16.71	0.41	17.12	36	PASS
11	2462	MCS0	16.83	0.41	17.24	36	PASS

802.11	802.11nHT_20M Ch1										
СН	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT				
1	2412	MCS0	16.79	1.65	18.44	36	PASS				
6	2437	MCS0	16.67	1.65	18.32	36	PASS				
11	2462	MCS0	16.75	1.65	18.40	36	PASS				

802.11	802.11n_HT20M_2TX											
СН	Freq. (MHz)	Data Rate	Avg. C Pov	)utput wer	Total Avg. Output Power	Antenna Gain	EIRP (dBm)	Limit (dBm)	RESULT			
	(101112)	Nate	CH 0	CH 1	(dBm)	(dBi)	(ubiii)	(ubiii)				
1	2412	MCS0	17.16	16.69	19.95	4.06	24.01	36	PASS			
6	2437	MCS0	16.95	16.52	19.76	4.06	23.82	36	PASS			
11	2462	MCS0	17.05	16.61	19.86	4.06	23.92	36	PASS			

802.11	802.11nHT_40M Ch0										
СН	Freq. (MHz)	Data Rate	Rate Power (dBm)		EIRP (dBm)	Limit (dBm)	RESULT				
3	2422	MCS0	15.44	0.41	15.85	36	PASS				
6	2437	MCS0	16.77	0.41	17.18	36	PASS				
9	2452	MCS0	14.89	0.41	15.30	36	PASS				

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802.11	802.11nHT_40M Ch1										
СН	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT				
3	2422	MCS0	15.38	1.65	17.03	36	PASS				
6	2437	MCS0	16.71	1.65	18.36	36	PASS				
9	2452	MCS0	14.80	1.65	16.45	36	PASS				

802.11n_HT40M_2TX											
СН	Freq. (MHz)	Data Rate	-	Dutput wer	Total Avg. Output Power	Antenna Gain	EIRP (dBm)	Limit (dBm)	RESULT		
	(11112)	Nate	CH 0	CH 1	(dBm)	(dBi)	(ubiii)	(ubiii)			
3	2422	MCS0	15.69	15.26	18.50	4.06	22.56	36	PASS		
6	2437	MCS0	17.02	16.62	19.84	4.06	23.90	36	PASS		
9	2452	MCS0	15.16	14.72	17.97	4.06	22.03	36	PASS		

802.11	802.11ac_VHT_20M Ch0										
СН	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT				
1	2412	MCS0	16.81	0.41	17.22	36	PASS				
6	2437	MCS0	16.66	0.41	17.07	36	PASS				
11	2462	MCS0	16.75	0.41	17.16	36	PASS				

802.11	802.11ac_VHT_20M Ch1										
СН	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT				
1	2412	MCS0	16.74	1.65	18.39	36	PASS				
6	2437	MCS0	16.60	1.65	18.25	36	PASS				
11	2462	MCS0	16.70	1.65	18.35	36	PASS				

802.11	802.11ac_VHT20M_2TX											
СН	Freq. (MHz)	Data Rate	•	Dutput wer	Total Avg. Output Power	Antenna Gain	EIRP (dBm)	Limit (dBm)	RESULT			
	(101112)	Nate	CH 0	CH 1	(dBm)	(dBi)	(ubiii)	(ubiii)				
1	2412	MCS0	17.08	16.61	19.87	4.06	23.93	36	PASS			
6	2437	MCS0	16.87	16.48	19.70	4.06	23.76	36	PASS			
11	2462	MCS0	16.96	16.55	19.78	4.06	23.84	36	PASS			

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802.11	802.11ac_VHT_40M Ch0										
СН	Freq. (MHz)	Data Rate	Rate Power (dBm)		EIRP (dBm)	Limit (dBm)	RESULT				
3	2422	MCS0	15.37	0.41	15.78	36	PASS				
6	2437	MCS0	16.72	0.41	17.13	36	PASS				
9	2452	MCS0	14.83	0.41	15.24	36	PASS				

802.11	802.11ac_VHT_40M Ch1										
СН	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT				
3	2422	MCS0	15.31	1.65	16.96	36	PASS				
6	2437	MCS0	16.67	1.65	18.32	36	PASS				
9	2452	MCS0	14.72	1.65	16.37	36	PASS				

802.11ac_VHT20M_2TX											
СН	Freq. (MHz)	Data Rate	Avg. C Pov	Dutput wer	Total Avg. Output Power	Antenna Gain	EIRP (dBm)	Limit (dBm)	RESULT		
	(11112)	Nate	CH 0	CH 1	(dBm)	(dBi)	(ubiii)	(ubiii)			
3	2422	MCS0	15.62	15.21	18.44	4.06	22.50	36	PASS		
6	2437	MCS0	16.95	16.54	19.77	4.06	23.83	36	PASS		
9	2452	MCS0	15.08	14.64	17.89	4.06	21.95	36	PASS		

802.11	ax_HE_2	OM Ch0											
СН	Freq. (MHz)	Data Rate	RU Config	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT					
			full	16.32	0.41	16.73	36	PASS					
1	1 2412	MCS0	MCS0	MCS0	MCS0	MCS0	MCS0	26/0	14.78	0.41	15.19	36	PASS
	2412				52/37	14.73	0.41	15.14	36	PASS			
			106/53	14.70	0.41	15.11	36	PASS					
6	2437	MCS0	full	16.86	0.41	17.27	36	PASS					
			full	16.26	0.41	16.67	36	PASS					
11	2462 MCS0	MCSO	26/8	14.73	0.41	15.14	36	PASS					
			52/40	14.71	0.41	15.12	36	PASS					
			106/54	14.82	0.41	15.23	36	PASS					

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802.11	802.11ax_HE_20M Ch1									
СН	Freq. (MHz)	Data Rate	RU Config	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT		
	1 2412 MCS	2412 MCS0		full	16.26	1.65	17.91	36	PASS	
1			MCSO	26/0	14.71	1.65	16.36	36	PASS	
1	2412	. W000	52/37	14.69	1.65	16.34	36	PASS		
			106/53	14.63	1.65	16.28	36	PASS		
6	2437	MCS0	full	16.80	1.65	18.45	36	PASS		
			full	16.21	1.65	17.86	36	PASS		
11	2462	MCS0	26/8	14.64	1.65	16.29	36	PASS		
	2402	1000	52/40	14.61	1.65	16.26	36	PASS		
			106/54	14.74	1.65	16.39	36	PASS		

## 802 11ax HE20M 2TX

CH	Freq. (MHz)	•		RU Config	Avg. C Pov	•	Total Avg. Output Power	Antenna Gain	EIRP (dBm)	Limit	RESULT
	(11112)	Nate	comig	CH 0	CH 1	(dBm)	(dBi)	(abiii)			
			full	16.57	16.21	19.41	4.06	23.47	36	PASS	
1	1 2412	MCS0	26/0	15.05	14.64	17.87	4.06	21.93	36	PASS	
			52/37	14.99	14.57	17.81	4.06	21.87	36	PASS	
				106/53	14.95	14.52	17.76	4.06	21.82	36	PASS
6	2437	MCS0	full	17.06	16.69	19.90	4.06	23.96	36	PASS	
			full	16.49	16.12	19.33	4.06	23.39	36	PASS	
11	2462	2462	462 MCS0	26/8	14.97	14.53	17.78	4.06	21.84	36	PASS
	2402	101030	52/40	15.02	14.57	17.82	4.06	21.88	36	PASS	
			106/54	15.06	14.61	17.86	4.06	21.92	36	PASS	

### 802.11ax HE 40M Ch0

СН	Freq. (MHz)	Data Rate	RU Config	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT	
3	2422	MCSO	MCS0	full	15.37	0.41	15.78	36	PASS
5	5 2422 10030	101000	242/61	14.81	0.41	15.22	36	PASS	
6	2437	MCS0	full	16.79	0.41	17.20	36	PASS	
8	2447	MCS0	full	16.75	0.41	17.16	36	PASS	
9	2452	452 MCS0	full	14.27	0.41	14.68	36	PASS	
9	9 2452		242/62	14.73	0.41	15.14	36	PASS	

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# 802 11ax HE 40M Ch1

802.11ax_HE_40M CIT												
СН	Freq. (MHz)	Data Rate	RU Config	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT				
3	3 2422 MC	422 MCS0	full	15.32	1.65	16.97	36	PASS				
5			WC30	WC30	MCOU	WIC00	WC00	MCOU	242/61	14.74	1.65	16.39
6	2437	MCS0	full	16.71	1.65	18.36	36	PASS				
8	2447	MCS0	full	16.66	1.65	18.31	36	PASS				
9	2452	MCS0	full	14.22	1.65	15.87	36	PASS				
9	2452	WC30	242/62	14.63	1.65	16.28	36	PASS				

## 802.11ax\_HE40M\_2TX

СН	Freq. (MHz)	Data Rate	RU Config	Avg. C Pov	)utput wer	Total Avg. Output Power	Antenna Gain	EIRP (dBm)	Limit	RESULT
	(191112)	Nate	comig	CH 0	CH 1	(dBm)	(dBi)	(ubiii)		
3	2422	MCS0	full	15.63	15.24	18.46	4.06	22.52	36	PASS
5	2422	1000	242/61	15.06	14.69	17.90	4.06	21.96	36	PASS
6	2437	MCS0	full	17.02	16.64	19.85	4.06	23.91	36	PASS
8	2447	MCS0	full	17.02	16.59	19.83	4.06	23.89	36	PASS
9	2452	MCS0	full	14.53	14.14	17.36	4.06	21.42	36	PASS
9	2432	10000	242/62	15.01	14.61	17.83	4.06	21.89	36	PASS

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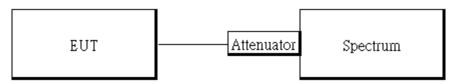


#### **EMISSION BANDWIDTH MEASUREMENT** 9

#### 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. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. 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 for -6dB Bandwidth test.

5. Repeat above procedures until all test default channel is completed

#### 9.4 6dB Bandwidth

802.11b Ch0			
Freq.	6dB BW	Limit	Result
(MHz)	(kHz)	(kHz)	Result
2412	8105.00	≧ 500	PASS
2437	8120.00	≧ 500	PASS
2462	8095.00	≧ 500	PASS
802.11g Ch0			
Freq.	6dB BW	Limit	Result
(MHz)	(kHz)	(kHz)	Result
2412	16060.00	≧ 500	PASS
2437	16350.00	≧ 500	PASS
2462	16350.00	≧ 500	PASS

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### 802.11a Ch1

••=			
Freq.	6dB BW	Limit	Result
(MHz)	(kHz)	(kHz)	Result
2412	16370.00	≧ 500	PASS
2437	16390.00	≧ 500	PASS
2462	16390.00	≧ 500	PASS

### 802.11nHT\_20M Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	16950.00	≧ 500	PASS
2437	17340.00	≧ 500	PASS
2462	17560.00	≧ 500	PASS

### 802.11nHT\_20M Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	17590.00	≧ 500	PASS
2437	17570.00	≧ 500	PASS
2462	17590.00	≧ 500	PASS

### 802.11nHT 40M Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35320.00	≧ 500	PASS
2437	35770.00	≧ 500	PASS
2452	35780.00	≧ 500	PASS

### 802.11nHT 40M Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35170.00	≧ 500	PASS
2437	35770.00	≧ 500	PASS
2452	35770.00	≧ 500	PASS

## 802.11ax HE 20M Ch0

Freq. (MHz)	RU Config	6dB BW (kHz)	Limit (kHz)	Result
2412	full	18690.00	≧ 500	PASS
2412	26/0	2086.00	≧ 500	PASS
2437	full	18910.00	≧ 500	PASS
2462	full	18960.00	≧ 500	PASS

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## 802.11ax HE 20M Ch1

Freq. (MHz)	RU Config	6dB BW (kHz)	Limit (kHz)	Result
2412	full	18800.00	≧ 500	PASS
2412	26/0	2091.00	≧ 500	PASS
2437	full	18830.00	≧ 500	PASS
2462	full	18970.00	≧ 500	PASS

### 802.11ax\_HE\_40M Ch0

Freq. (MHz)	RU Config	6dB BW (kHz)	Limit (kHz)	Result
2422	full	36480.00	≧ 500	PASS
2437	full	38060.00	≧ 500	PASS
2452	full	37590.00	≧ 500	PASS

### 802.11ax HE 40M Ch1

· · · –				
Freq.	RU	6dB BW	Limit	Result
(MHz)	Config	(kHz)	(kHz)	
2422	full	36180.00	≧ 500	PASS
2437	full	37670.00	≧ 500	PASS
2452	full	37560.00	≧ 500	PASS

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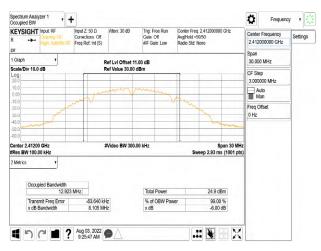
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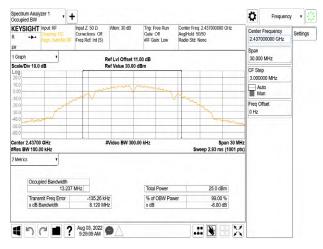
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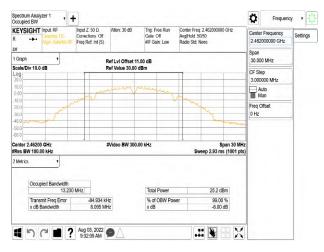
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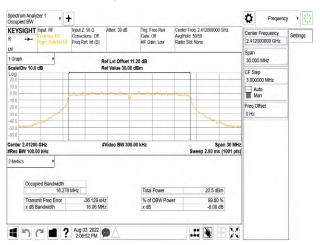
802.11b 20MHz Chain0 2437MHz



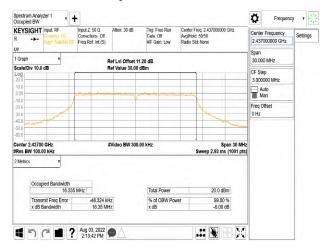
802.11b\_20MHz\_Chain0\_2462MHz



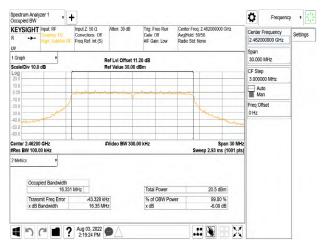
### 802.11g\_20MHz\_Chain0\_2412MHz



802.11g 20MHz Chain0 2437MHz



### 802.11g\_20MHz\_Chain0\_2462MHz



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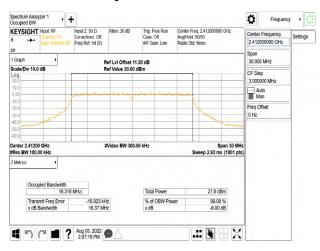
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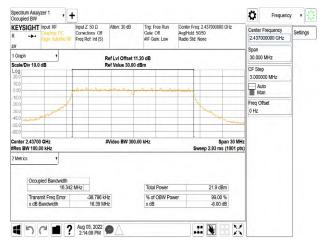
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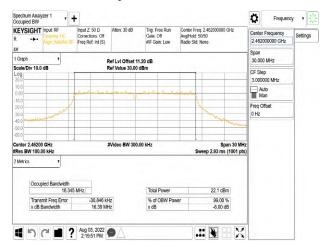
802.11g\_20MHz\_Chain1\_2412MHz



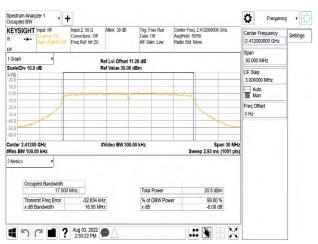
802.11g 20MHz Chain1 2437MHz



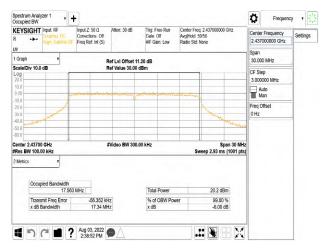
802.11g\_20MHz\_Chain1\_2462MHz



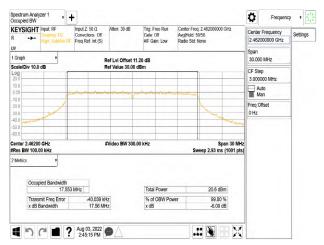
802.11n\_20MHz\_Chain0\_2412MHz



802.11n 20MHz Chain0 2437MHz



### 802.11n\_20MHz\_Chain0\_2462MHz



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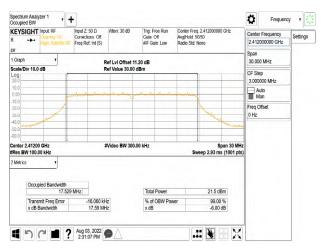
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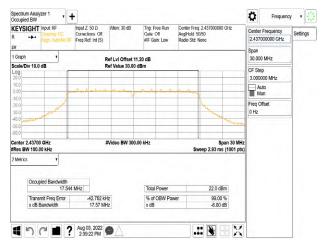
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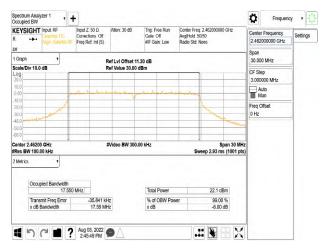
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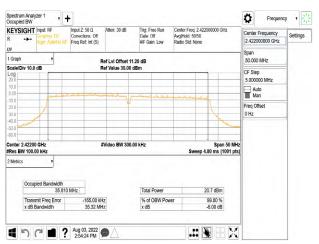
802.11n 20MHz Chain1 2437MHz



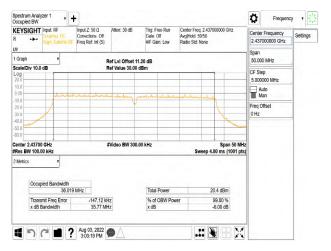
802.11n\_20MHz\_Chain1\_2462MHz



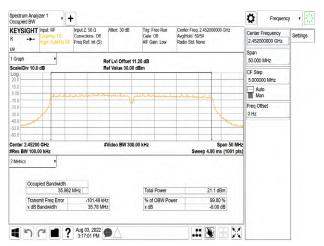
#### 802.11n\_40MHz\_Chain0\_2422MHz



802.11n 40MHz Chain0 2437MHz



#### 802.11n\_40MHz\_Chain0\_2452MHz



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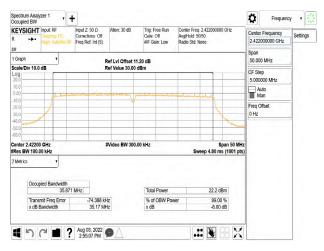
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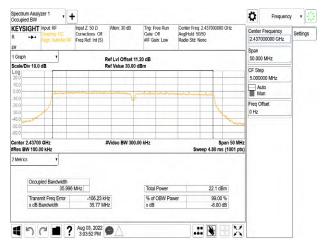
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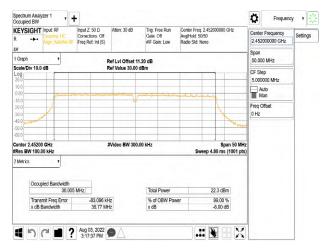
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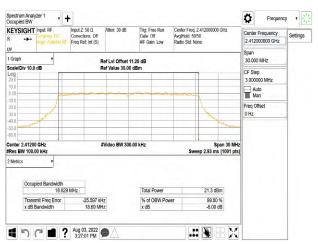
802.11n 40MHz Chain1 2437MHz



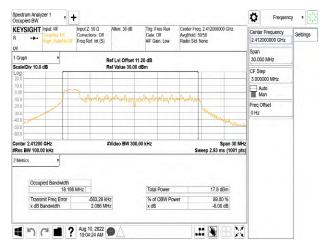
802.11n\_40MHz\_Chain1\_2452MHz



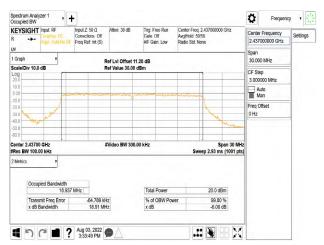
#### 802.11ax\_20MHz\_Chain0\_2412MHz



802.11ax 20MHz Chain0 2412MHz RU26 0



#### 802.11ax\_20MHz\_Chain0\_2437MHz



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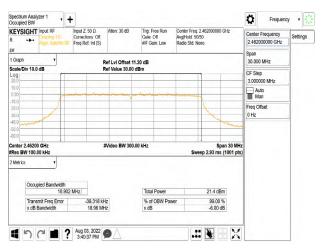
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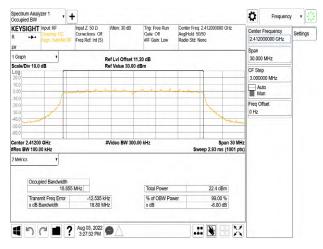
# Report No.: TERF2207001114E2 Page: 54 of 179



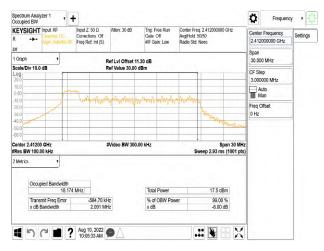
802.11ax\_20MHz\_Chain0\_2462MHz



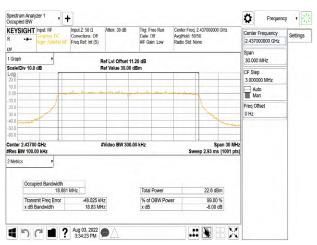
802.11ax 20MHz Chain1 2412MHz



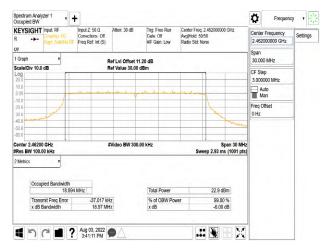
802.11ax\_20MHz\_Chain1\_2412MHz\_RU26\_0



### 802.11ax\_20MHz\_Chain1\_2437MHz



802.11ax 20MHz Chain1 2462MHz



#### 802.11ax\_40MHz\_Chain0\_2422MHz

Spectrum Analyzer 1 Occupied BW Ö Frequency . . + Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) KEYSIGHT Input: R Atten: 30 dB Trig: Free Run Gate: Off #IF Gain: Low Conter Freq: 2.422000000 GHz Center Frequency 2.422000000 GHz Settings Avg|Hold : Radio Std: Da 1 Graph 50.000 MHz Ref Lvi Offset 11.20 dB Ref Value 30.00 dBm Scale/Div 10.0 dE CF Step 5 000000 MHz Auto Man Freq Offset 0 Hz Span 50 M Sweep 4.80 ms (1001 p er 2.42200 GHz BW 100.00 kHz #Video BW 300.00 kHz nter 1 es B\ 2 Metrics Occupied Bandwidth 37.488 MHz Total Power 21.4 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -156.71 kHz 36.48 MHz 99.00 % -6.00 dB ■ っ c ■ ? Aug 03, 2022 .# 😽 🕂 X

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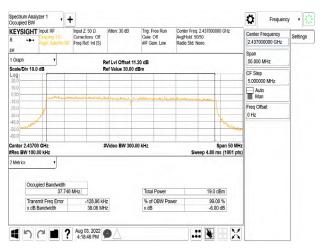
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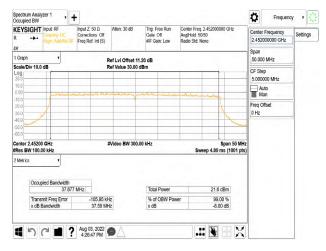
# Report No.: TERF2207001114E2 Page: 55 of 179



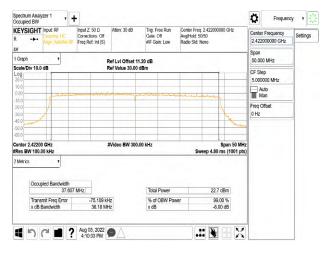
802.11ax\_40MHz\_Chain0\_2437MHz



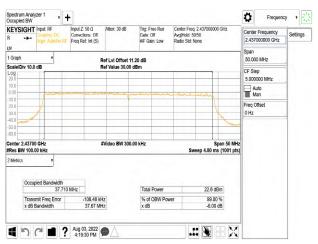
802.11ax 40MHz Chain0 2452MHz



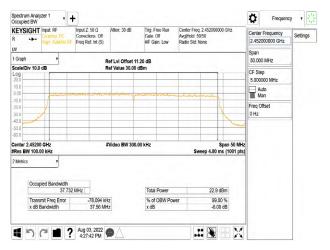
802.11ax\_40MHz\_Chain1\_2422MHz



802.11ax\_40MHz\_Chain1\_2437MHz



802.11ax 40MHz Chain1 2452MHz



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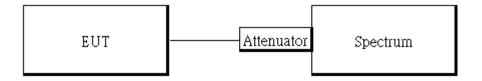
# **10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT**

# **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.
- 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
- 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
- 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.

# **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.
- 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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#### Measurement Result 10.4

802.11b C	h0		802.11g Ch0		
Reference Level of Limit			Reference Level of Limit 802.11g mode		
Freq.	PSD	Reference Level of Limit	Freq.	PSD	Reference Level of Limit
(MHz)	(dBm)	(dBm)	(MHz)	(dBm)	(dBm)
2412	9.14	-10.86	2412	2.50	-17.50
2437	8.72	-11.28	2437	1.84	-18.16
2462	9.16	-10.84	2462	2.22	-17.78

## 802.11g Ch1

### 802.11nHT 20M Ch0

Refer	Reference Level of Limit 802.11g mode			nce Level o	of Limit 802.11n20 MODE
Freq.	PSD	Reference Level of Limit	Freq.	PSD	Reference Level of Limit
(MHz)	(dBm)	(dBm)	(MHz)	(dBm)	(dBm)
2412	3.35	-16.65	2412	2.58	-17.42
2437	3.59	-16.41	2437	1.79	-18.21
2462	3.67	-16.33	2462	1.99	-18.01

## 802.11nHT\_20M Ch1

## 802.11nHT\_40M Ch0

	_				
Referen	Reference Level of Limit 802.11ac20 MODE			nce Level o	of Limit 802.11n40 MODE
Freq.	PSD	Reference Level of Limit	Freq.	PSD	Reference Level of Limit
(MHz)	(dBm)	(dBm)	(MHz)	(dBm)	(dBm)
2412	3.12	-16.88	2422	0.02	-19.98
2437	3.33	-16.67	2437	-0.35	-20.35
2462	3.58	-16.42	2452	-0.54	-20.54

## 802.11nHT 40M Ch1

## 802.11ax HE 20M Ch0

Referer	Reference Level of Limit 802.11ac40 MODE			nce Level o	of Limit 802.11ax20 mode
Freq.	PSD	Reference Level of Limit	Freq.	PSD	Reference Level of Limit
(MHz)	(dBm)	(dBm)	(MHz)	(dBm)	(dBm)
2422	1.01	-18.99	2412	2.47	-17.53
2437	0.80	-19.20	2437	1.91	-18.09
2452	1.37	-18.63	2462	2.30	-17.70

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	802.11ax_HE_20M Ch1			802.11ax_	HE_40M C	h0
Reference Level of Limit 802.11ax20 mode			Refere	erence Level of Limit 802.11ax40 MODE		
	Freq.	PSD	Reference Level of Limit	Freq.	PSD	Reference Level of Limit
	(MHz)	(dBm)	(dBm)	(MHz)	(dBm)	(dBm)
	2412	3.29	-16.71	2422	0.48	-19.52
	2437	3.46	-16.54	2437	-0.78	-20.78
	2462	3.59	-16.41	2452	-0.21	-20.21

## 802.11ax\_HE\_40M Ch1

Referen	Reference Level of Limit 802.11ax40 MODE					
Freq.	PSD	Reference Level of Limit				
(MHz)	(dBm)	(dBm)				
2422	1.46	-18.54				
2437	0.57	-19.43				
2452	1.28	-18.72				

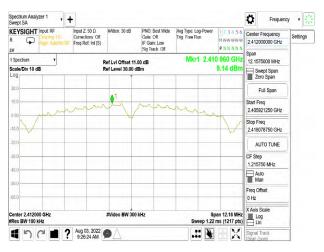
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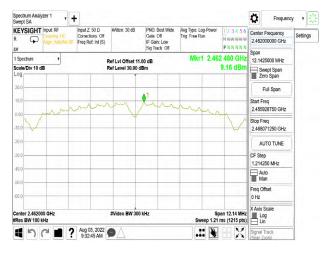
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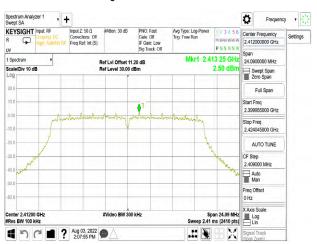
802.11b 20MHz Chain0 2437MHz



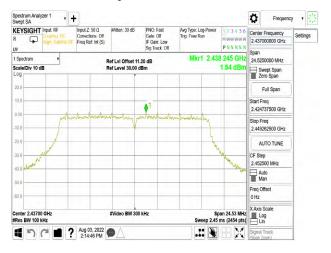
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802.11g\_20MHz\_Chain0\_2412MHz



802.11g 20MHz Chain0 2437MHz





802.11g\_20MHz\_Chain0\_2462MHz

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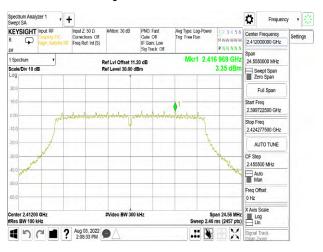
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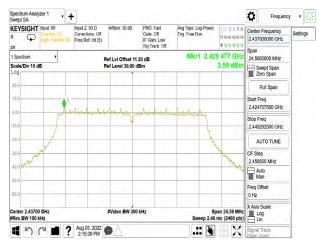
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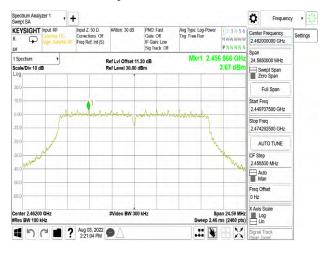
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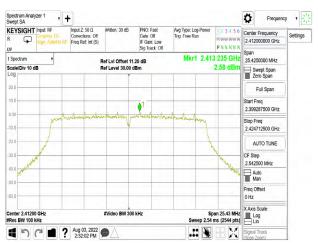
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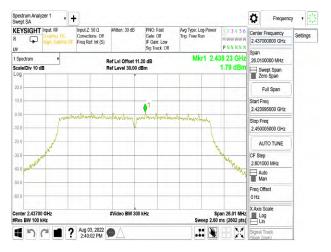
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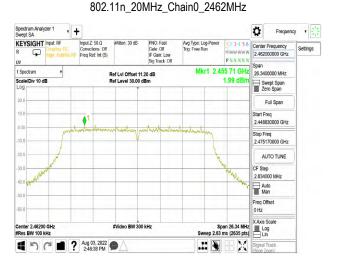


802.11n\_20MHz\_Chain0\_2412MHz



802.11n 20MHz Chain0 2437MHz





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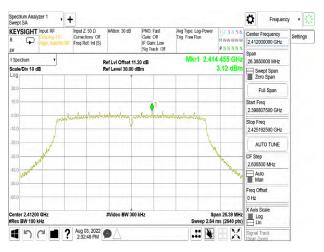
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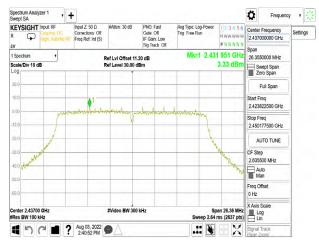
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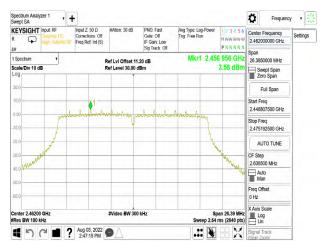
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802.11n 20MHz Chain1 2437MHz



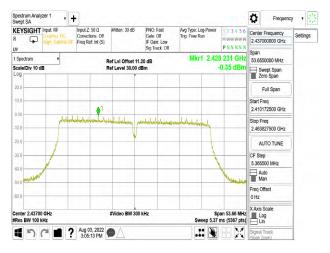
802.11n\_20MHz\_Chain1\_2462MHz



#### 802.11n\_40MHz\_Chain0\_2422MHz



802.11n 40MHz Chain0 2437MHz





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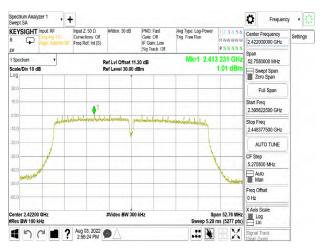
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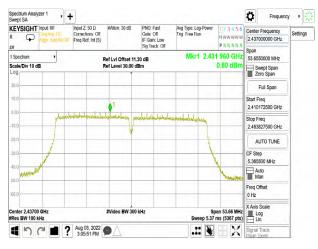
# Report No.: TERF2207001114E2 Page: 63 of 179



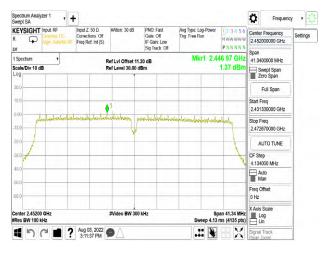
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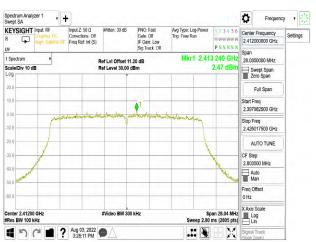
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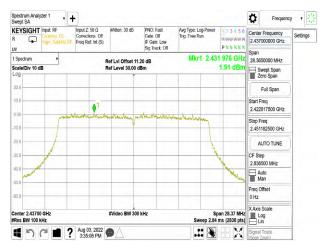
802.11n\_40MHz\_Chain1\_2452MHz



802.11ax\_20MHz\_Chain0\_2412MHz



802.11ax 20MHz Chain0 2437MHz





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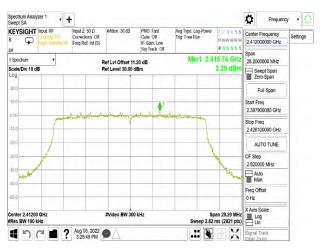
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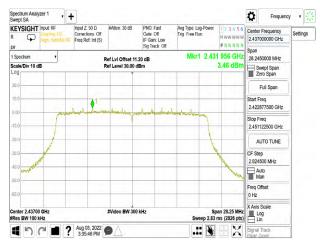
# Report No.: TERF2207001114E2 Page: 64 of 179



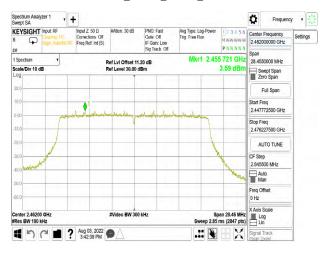
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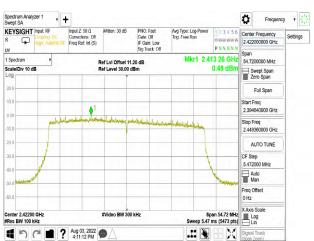
802.11ax 20MHz Chain1 2437MHz



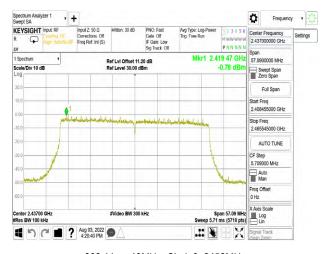
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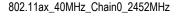


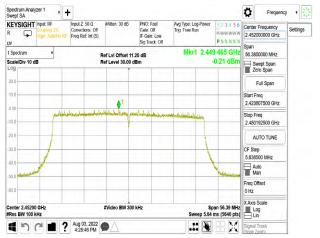
802.11ax\_40MHz\_Chain0\_2422MHz



802.11ax 40MHz Chain0 2437MHz







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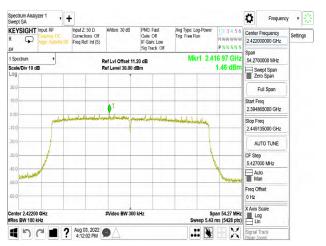
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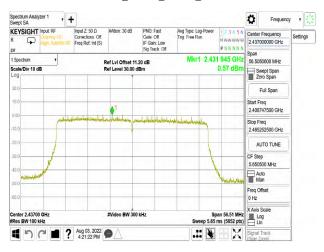
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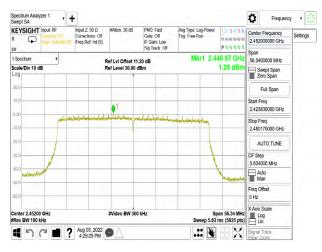
#### 802.11ax\_40MHz\_Chain1\_2422MHz



802.11ax 40MHz Chain1 2437MHz



802.11ax\_40MHz\_Chain1\_2452MHz



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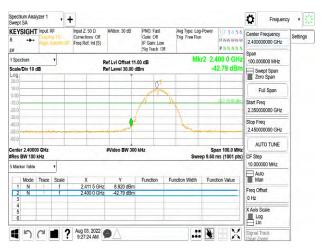
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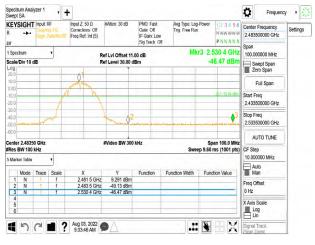
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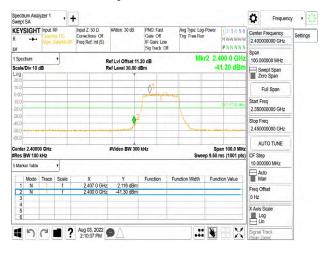
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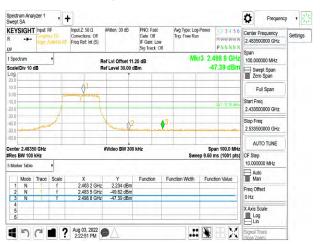
802.11b 20MHz Chain0 2462MHz



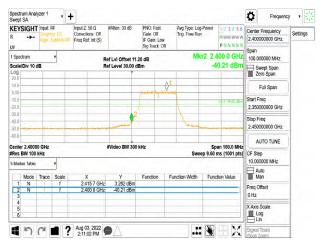
802.11g\_20MHz\_Chain0\_2412MHz



802.11g\_20MHz\_Chain0\_2462MHz



802.11g 20MHz Chain1 2412MHz





Spectrum Analyzer 1 Swept SA KEYSIGHT Input: RF . + Ö Frequency . PNO: Fast Gale: Off IF Gain: Low Sig Track: Off Input Z: 50 Ω Corrections: Off Froq Rof: Int (S) #Atten: 30 dE Avg Type: Log-Powe Trig: Free Run Center Frequency 2 483500000 GH + PNNNN DJ par Mkr3 2.528 1 GHz 1 Spectru Ref Lvi Offset 11.20 dB Ref Level 30.00 dBm 100.000000 MHz Scale/Div 10 dB -47.37 dB Swept Span Zero Span Full Span Start Freq 2.433500000 GHz Stop Freq 2.533500000 GHz ♦3 AUTO TUNE Span 100.0 MHz Sweep 9.60 ms (1001 pts) 10.000000 MH Center 2.48350 #Res BW 100 1 Auto Man Function Width Function Value 3.644 dB -48.15 dB -47.37 dB Freq Offset 0 Hz X Axis Scale ■ っ c ■ ? Aug 03, 2022 .:: 😵 X

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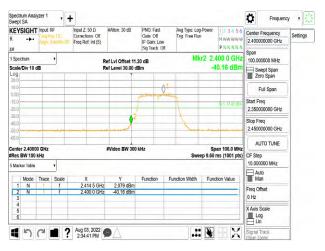
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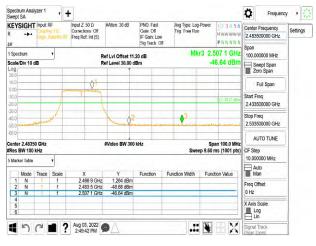
# Report No.: TERF2207001114E2 Page: 67 of 179



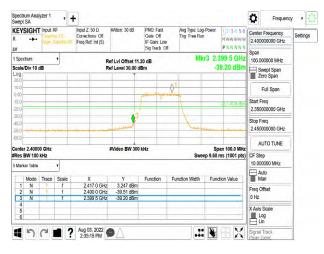
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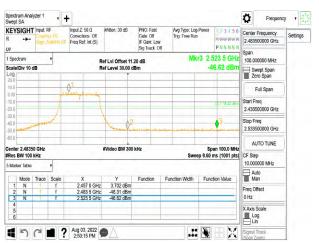
802.11n 20MHz Chain0 2462MHz



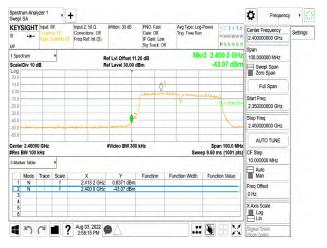
802.11n\_20MHz\_Chain1\_2412MHz



802.11n\_20MHz\_Chain1\_2462MHz



802.11n 40MHz Chain0 2422MHz



### 802.11n\_40MHz\_Chain0\_2452MHz



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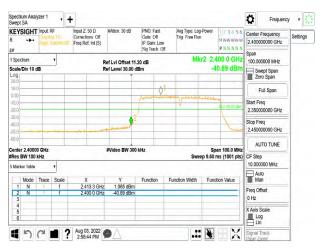
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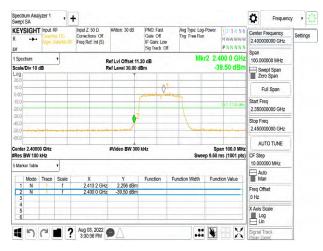
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#### 802.11n\_40MHz\_Chain1\_2452MHz



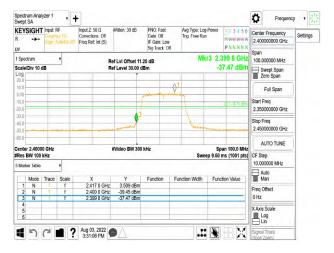
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#### 802.11ax\_20MHz\_Chain0\_2462MHz



802.11ax 20MHz Chain1 2412MHz



#### 802.11ax\_20MHz\_Chain1\_2462MHz



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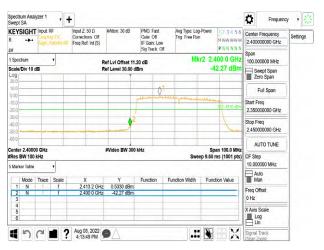
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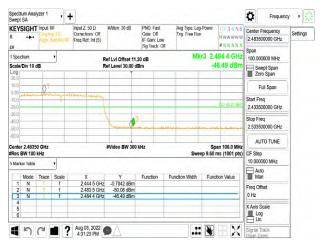
# Report No.: TERF2207001114E2 Page: 69 of 179



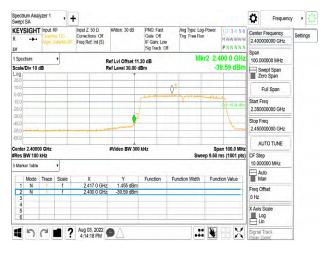
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802.11ax 40MHz Chain0 2452MHz



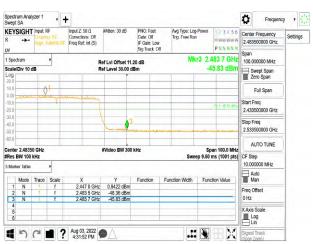
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802.11ax\_40MHz\_Chain1\_2452MHz



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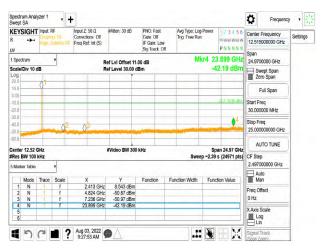
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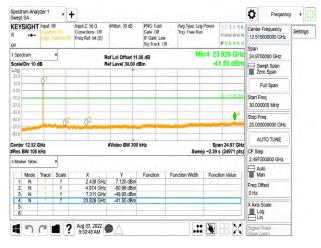
# Report No.: TERF2207001114E2 Page: 70 of 179



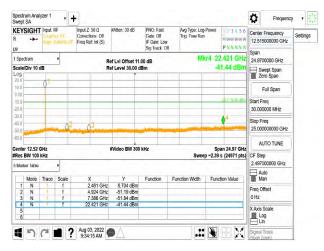
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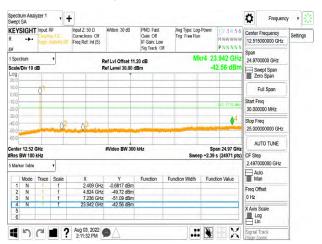
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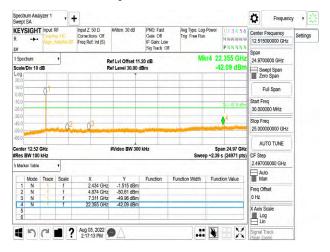
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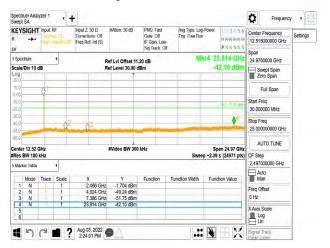
#### 802.11g\_20MHz\_Chain0\_2412MHz



802.11g 20MHz Chain0 2437MHz



#### 802.11g\_20MHz\_Chain0\_2462MHz



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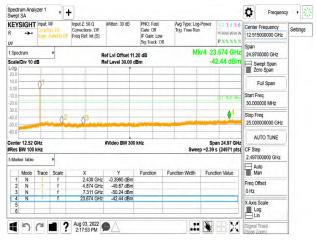
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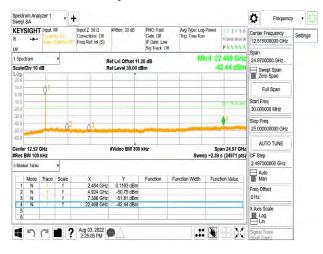
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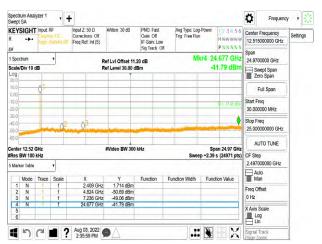
802.11g 20MHz Chain1 2437MHz



802.11g\_20MHz\_Chain1\_2462MHz



### 802.11n\_20MHz\_Chain0\_2412MHz



802.11n 20MHz Chain0 2437MHz



#### 802.11n\_20MHz\_Chain0\_2462MHz

Spectrum Analyzer 1 Swept SA Frequency . + Ö 1.5 PNO: Fast Gale: Off IF Gain: Low KEYSIGHT Input R Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) Avg Type: Log-Pou Trig: Free Pur-MAtten: 30 dB Center Frequency 12.515000000 GHz ings -PNNNN Sig Track 137 Ref Lvi Offset 11.20 dB Ref Level 30 00 dB 24.9700000 GHz Scale/Div 10 di -41.86 dB Swept Span Zero Span Full Span Start Freq 30.000000 MHz Stop Freq 25.00000000 GHz AUTO TUNE Center 12.52 GHz #Res BW 100 kHz Span 24.97 GHz Sweep ~2.39 s (24971 pts) CF Step 2.497000000 GHz Marker Tabl Auto Man Function Width Function Value -0.5583 dBi -49.70 dBi -50.75 dBi -41.86 dBi Freq Offset 0 Hz X Axis Sca Log Lin ■ っ c ■ ? Aug 03, 2022 X .# 🔖 Signal Trac

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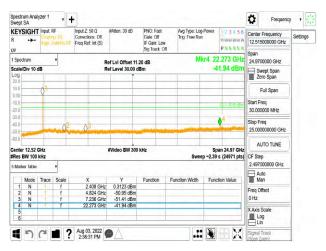
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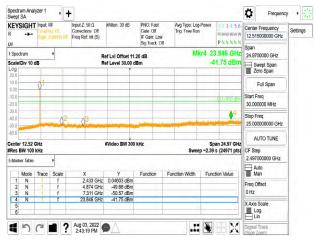
# Report No.: TERF2207001114E2 Page: 72 of 179



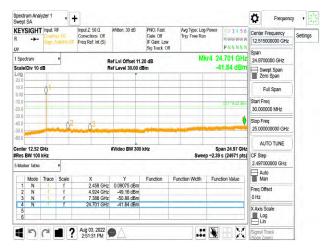
#### 802.11n\_20MHz\_Chain1\_2412MHz



802.11n 20MHz Chain1 2437MHz



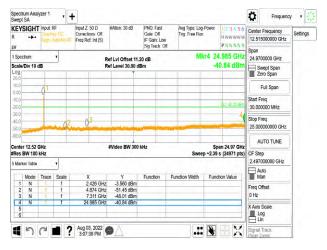
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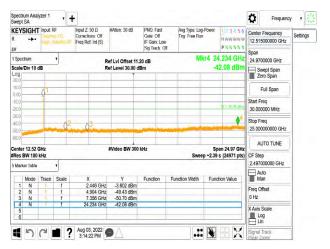
### 802.11n\_40MHz\_Chain0\_2422MHz



802.11n 40MHz Chain0 2437MHz



#### 802.11n\_40MHz\_Chain0\_2452MHz



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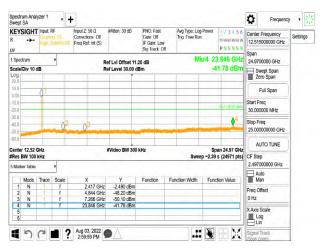
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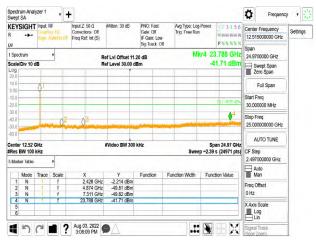
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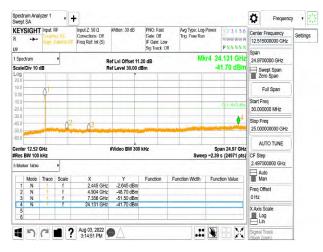
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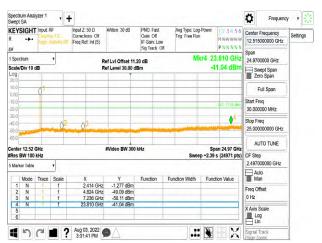
802.11n 40MHz Chain1 2437MHz



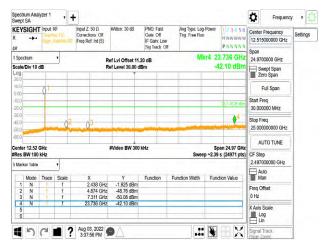
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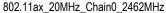


#### 802.11ax\_20MHz\_Chain0\_2412MHz



802.11ax 20MHz Chain0 2437MHz





Spectrum Analyzer 1 Swept SA . + Ö Frequency PNO: Fast Gale: Off IF Gain: Low KEYSIGHT Input R Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) MAtten: 30 dB Avg Type: Log-Powe Trig: Free Run Center Frequency 12.515000000 GHz ings + PNNNN Sig Track 137 kr4 24.148 GHz Ref Lvi Offset 11.20 dB 24.9700000 GHz Scale/Div 10 di -41.75 dB Swept Span Zero Span Full Span Start Freq 30.000000 MHz 64 Stop Free 25.000000000 GH AUTO TUNE Center 12.52 GHz #Res BW 100 kHz Span 24.97 GHz Sweep ~2.39 s (24971 pts) CF Step 2.497000000 GHz Marker Tabl Auto Man Function Width Function Value 0.3347 dBm -49.26 dBm -51.34 dBm -41.75 dBm Freq Offset 0 Hz X Axis Sca Log Lin ■ っ c ■ ? Aug 03, 2022 ● X .# 🔖 Signal Trac

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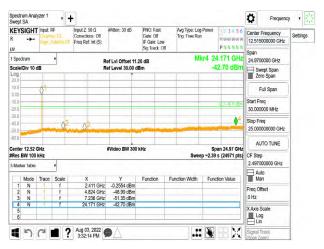
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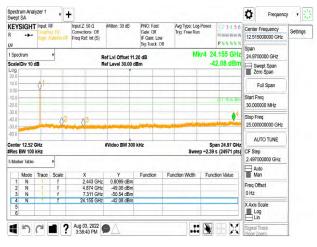
# Report No.: TERF2207001114E2 Page: 74 of 179



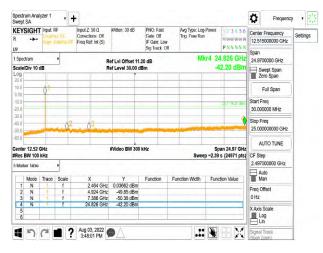
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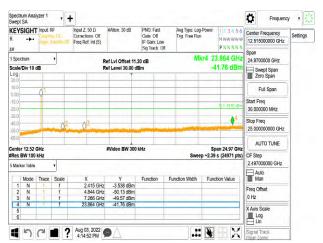
802.11ax 20MHz Chain1 2437MHz



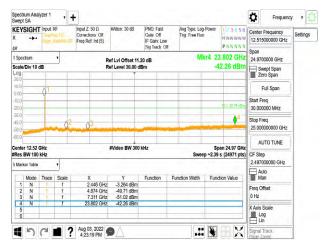
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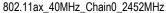


#### 802.11ax\_40MHz\_Chain0\_2422MHz



802.11ax 40MHz Chain0 2437MHz





Spectrum Analyzer 1 Swept SA . + Ö 1.5 Frequency PNO: Fast Gale: Off IF Gain: Low KEYSIGHT Input R Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) #Atten: 30 dB Avg Type: Log-Powe Trig: Free Run 12.515000000 GHz ings .... PNNNN Sig Track 137 lkr4 23.788 GHz Ref Lvi Offset 11.20 dB 24.9700000 GHz Scale/Div 10 di -41.65 dB Swept Span Zero Span Full Span Start Freq 30.000000 MHz 64 Stop Freq 25.00000000 GHz AUTO TUNE Center 12.52 GHz #Res BW 100 kHz Span 24.97 GHz Sweep ~2.39 s (24971 pts) CF Step 2.497000000 GHz Marker Tabl Auto Man Function Width Function Value -2.524 dBn -49.73 dBn -49.13 dBn -41.65 dBn Freq Offset 0 Hz X Axis Sca Log Lin ■ っ c ■ ? Aug 03, 2022 X .# 🔖 Signal Trac

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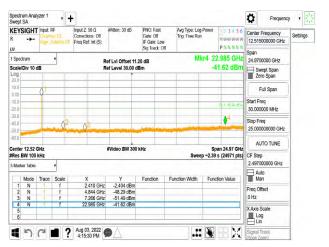
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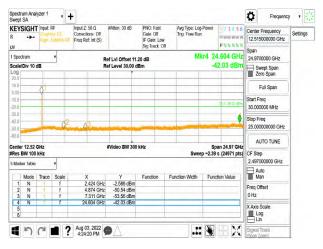
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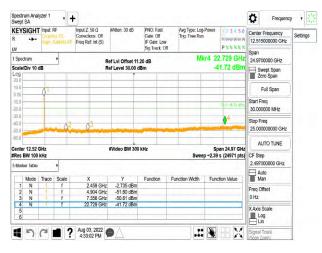
### 802.11ax\_40MHz\_Chain1\_2422MHz



802.11ax 40MHz Chain1 2437MHz



802.11ax\_40MHz\_Chain1\_2452MHz



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# 11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

#### 11.1 **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 must also comply with the §15.209 limit as below.

And according to §15.33(a) (1), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/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:

1. The lower limit shall apply at the transition frequencies.

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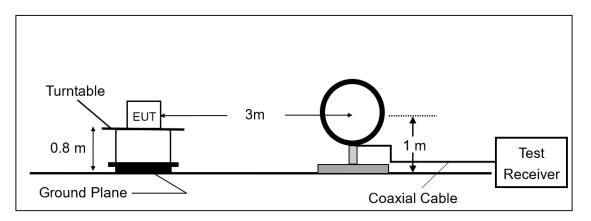
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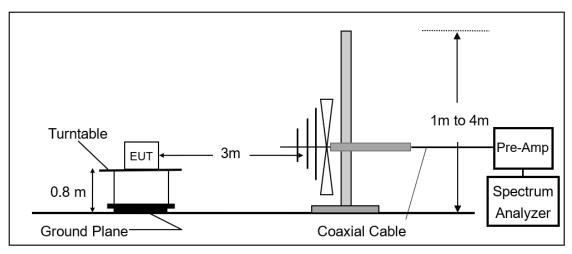


#### Test Setup 11.2

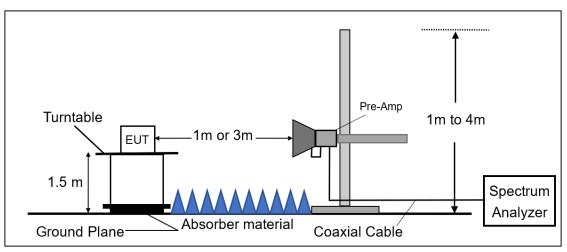
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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#### **Measurement Procedure** 11.3

- 1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
- 3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
- 4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
- 5. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
- 6. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
- 7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measurements at frequency above 1 GHz.
- 8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Emission Measurements at frequency above 1 GHz.
- 9. When 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.
- 10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 12. Repeat above procedures until all default test channel measured were complete.

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