

ELECTROMAGNETIC EMISSIONS **COMPLIANCE REPORT**



Applicant:	ASUSTeK COMPUTER INC. 1F.No.15.Lide Rd.Beitou Dist. Taipei City 112.taiwan
Product Name:	ASUS Phone (Mobile Phone)
Brand Name:	ASUS
Model No.:	ASUS_1006D
Model Difference:	N/A
Report Number:	ER/2021/20010
FCC ID	MSQI006D
IC:	3568A-1006D
FCC Rule Part:	§15.247, Cat: DTS
IC RSS:	RSS-247 issue 2 Feb 2017
Issue Date:	May 7, 2021
Date of Test:	January 26, 2021 - April 6, 2021
Date of EUT Received:	January 26, 2021

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 tested as described in this report is in compliance with conducted and radiated emission limits.

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

Approved By: Mu lay

Blue Yang / Asst. Manager

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Revision History				
Report Number Revision Description Issue Date Revised By				
ER/2021/20006	Rev.00	Original.	May 7, 2021	Viola Su

Note:

1 · Disclaimer

Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

2 . Test data is referenced from original report Measurement results in the original test report ER/2021/10055 are partially leveraged in this test report with spot check to demonstrate compliance.

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GENERAL INFORMATION 1

1.1 Product description

Product Name:	ASUS Phone (Mobile Phone)		
Brand Name:	ASUS		
Model No.:	ASUS_10	06D	
Model Difference:	N/A		
Hardware Version:	V4		
Software Version:	Android 11		
EUT Series No.:	N/A		
	3.87Vdc from Rechargeable Li-polymer Battery or 5 / 9 / 12 / 15 / 20 Vdc from AC/DC Adapter		
Power Supply:	Battery Model No: C11P2003 Brand: ASUS		
	Adapter Model No: A299-200150U-US Brand: ASUS		

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WLAN 2.4GHz

Wi-Fi	Frequency Range	Channels	Rated Power in dBm (Peak)	Modulation Technology	
802.11b	2412~2462	11	23.57	DSSS	
802.11g	2412~2462	11	29.66	OFDM	
802.11n20	2412~2462	11	29.30	OFDM	
802.11n40	2422-2452	7	28.73	OFDM	
802.11ax20	2412~2462	11	29.96	OFDMA	
802.11ax40	2422-2452	7	29.77	OFDMA	
	CCK, DQPSK, DBPSK for D		K, DBPSK for DSSS		
Modulatio	Modulation type:		64QAM, 16QAM, QPSK, BPSK for OFDM		
		1024QAM, 256QAM, 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			
Data R	ate:	802.11 n_20MHz:6.5 - 144.4Mbps			
	Data Rate:		802.11 n_40MHz:13.5 - 300Mbps		
		802.11 ax_20MHz:7.3 - 286.8Mbps			
802.11 ax_40MHz:14.6 - 573.6Mbps			DS		

1.2 Antenna Designation

Antenna Type	Brand	Model No.	Freq. (MHz)	Peak Antenna Gain (dBi)
PIFA	ASUS	ZS590KS	2.4GHz	-0.13
PIFA	ASUS	ZS590KS	2.4GHz	-3.13

Note: Investigation has been done to determine the worst case scenario for the above antennas demonstrated with measurements in this report.

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1.3 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247 FCC KDB 558074 D01 15.247 Meas Guidance v05r02 FCC KDB 662911 D01 Multiple Transmitter Output v02r01 RSS-247 issue 2 Feb. 2017 RSS-Gen. issue 5, Amendment 1, March 2019 ANSI C63.10:2013

1.4 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion number	IC CAB identifier
		SAC 1		
		SAC 3		
		Conduction 1		
	No.134, Wu Kung Road, New Taipei	Conducted 1		
	Industrial Park, Wuku District, New	Conducted 2	TW0027	
	Taipei City, Taiwan.	Conducted 3		
		Conducted 4		
		Conducted 5		
CCC Taiwan I ta		Conducted 6		
SGS Taiwan Ltd. Central RF Lab.	Na 2 Kaji 4at Dd. Quishan District	Conduction A		TW3702
(TAF code 3702)		SAC C		
(1AI COUE 5702)		SAC D		
		SAC G		
		Conducted A		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conducted B	TW0028	
	Tabydan City, Taiwan 555	Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		
Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.				

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1.5 Special Accessories

There are no special accessories used while test was conducted.

1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is 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)

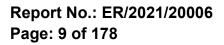
The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output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

2.3.3 Radiated Emissions

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*9m*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 Configuration of Tested System

Conducted Setup & Radiated Setup



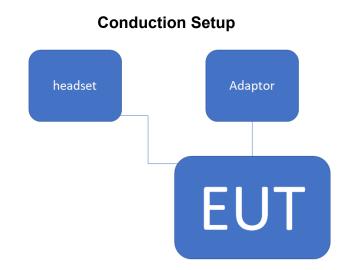


Table 2-1 Equipment Used in Tested System

ltem	Equipment	MRF/BRAND	Model/Type No.	Series No.	Version
1.	QRCT4	N/A	N/A	N/A	4.0.00142.0
2.	Notebook	Lenovo	L480	PF-1S9NT5	N/A
3.	Adapter	ASUS	A299-200150U-US	NA	N/A
4.	Headset	1MORE	EARPHONE BLK YODA	NA	N/A

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SUMMARY OF TEST RESULTS 3

FCC Rules	IC Rules	Description Of Test	Result
§15.207(a)	RSS-Gen §8.8	AC Power Line Conducted Emission	Compliant
§15.247(b) (3)	RSS-247 §5.4 d	Peak Output Power	Compliant
§15.247(a)(2)	RSS-247 §5.2 a RSS-Gen §6.7	Emission Bandwidth	Compliant
§15.205 §15.209 §15.247(d)	RSS-247 §5.5 RSS-Gen §8.9 RSS-Gen §8.10 RSS-Gen §6.13	Radiated & Conducted Band Edge and Spurious Emission	Compliant
§15.247(e)	RSS-247 §5.2 b	Power Spectral Density	Compliant
§15.203 §15.247(b)	N/A	Antenna Requirement	Compliant

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DESCRIPTION OF TEST MODES 4

4.1 Operated in 2400 ~ 2483.5MHz Band

11 channels are provided for 802.11b/g/n/ax 20M.

CHANNEL	FREQUENCY (MHz)
1	2412
2	2417
3	2422
4	2427
5	2432
6	2437
7	2442
8	2447
9	2452
10	2457
11	2462

9 channels are provided for 802.11n/ax 40M

CHANNEL	FREQUENCY (MHz)
3	2422
4	2427
5	2432
6	2437
7	2442
8	2447
9	2452

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4.2 The Worst Test Modes and Channel Details

- 1. The EUT has been tested under operating condition.
- 2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
- 3. Investigation has been done on all the possible configurations for searching the worst case.

The gevin UE is pre-scanned among below modes.

Modulation	Transmission Chain	Single Transmission Spatial	Multiple Transmission Spatial
🛛 802.11 b	🖾 Ch0 🖾 Ch1 🗆 Ch2 🗆 Ch3	🗆 1TX	⊠ 2TX
🛛 802.11 g	🖾 Ch0 🖾 Ch1 🗆 Ch2 🗆 Ch3	🗆 1TX	⊠ 2TX
🛛 802.11 n	🖾 Ch0 🖾 Ch1 🗆 Ch2 🗆 Ch3		🛛 MIMO
⊠ 802.11 ax	🖾 Ch0 🖾 Ch1 🗆 Ch2 🗆 Ch3		🛛 MIMO

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.

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4.3 Radiated Emission Test:

RADIATED EMISSION TEST (BELOW 1 GHz)								
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT			
802.11g	1 to 11	1,6,11	OFDM	6	2TX			
802.11n (HT40)	3 to 9	3,6,9	OFDM	MCS8	MIMO			

	RADIATED EMISSION TEST (ABOVE 1 GHz)									
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT					
802.11b	1 to 11	1,6,11	DSSS	1	2TX					
802.11g	1 to 11	1,6,11	OFDM	6	2TX					
802.11n (HT20)	1 to 11	1,6,11	OFDM	MCS8	MIMO					
802.11n (HT40)	3 to 9	3,6,9	OFDM	MCS8	MIMO					
802.11ax (HE20)	1 to 11	1,6,11	OFDMA	MCS0	MIMO					
802.11ax (HE40)	3 to 9	3,6,9	OFDMA	MCS0	MIMO					

Note: The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for channel Low, Mid and High, the worst case E2 position was reported.

4.4 Antenna Port Conducted Mesurement:

	CONDUCTED TEST								
MODE	CHANNEL		MODULATION	DATA RATE (Mbps)	ANTENNA PORT				
802.11b	1 to 11	1,6,11	DSSS	1	2TX				
802.11g	1 to 11	1,6,11	OFDM	6	2TX				
802.11n (HT20)	1 to 11	1,6,11	OFDM	MCS8	MIMO				
802.11n (HT40)	3 to 9	3,6,9	OFDM	MCS8	MIMO				
802.11ax (HE20)	1 to 11	1,6,11	OFDMA	MCS0	MIMO				
802.11ax (HE40)	3 to 9	3,6,9	OFDMA	MCS0	MIMO				

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MEASUREMENT UNCERTAINTY 5

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.34 dB
Peak Output Power	+/- 1 dB
6dB Bandwidth	+/- 1.54 Hz
100 KHz Bandwidth Of Frequency Band Edges	+/- 1.69 dB
Peak Power Density	+/- 1.54 dB
Temperature	+/- 0.4 °C
Humidity	+/- 3.5 %
DC / AC Power Source	DC= +/- 1%, AC= +/- 1%

Radiated S	purio	us Emi	ssion N	leasurement Uncertainty
	+/-	2.64	dB	9kHz~30MHz: +-2.3dB
Polarization: Vertical	+/-	4.93	dB	30MHz - 1000MHz: +/- 3.37dB
Polarization. Vertical	+/-	4.81	dB	1GHz - 18GHz: +/- 4.04dB
	+/-	4.52	dB	18GHz - 40GHz: +/- 4.04dB
	+/-	2.64	dB	9kHz~30MHz: +-2.3dB
Polarization: Horizontal	+/-	4.45	dB	30MHz - 1000MHz: +/- 4.22dB
	+/-	4.81	dB	1GHz - 18GHz: +/- 4.08dB
	+/-	4.52	dB	18GHz - 40GHz: +/- 4.08dB

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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CONDUCTED EMISSION TEST 6

6.1 Standard Applicable

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

Frequency range	Lin dB(
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 th	e transition frequencies	
2. The limit decreases linearly wit	h the logarithm of the frequency in	the range 0.15 MHz to 0.50
MHz.		

6.2 Measurement Equipment Used

Radiated Emission Test Site: Conduction 1									
EQUIPMENT TYPE	MFR/BRAND	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.				
LISN	SCHWARZBECK	NSLK 8127	8127-465	04/09/2020	04/08/2021				
Coaxial Cables	N/A	Coaxial Cable	161207	12/07/2020	12/06/2021				
Test Software	audix	e3 Ver. 6.11 2018041		01/01/2021	12/31/2021				
EMI Test Receiver	R&S	ESCI 7	100759	07/13/2020	07/12/2021				

6.3 EUT Setup

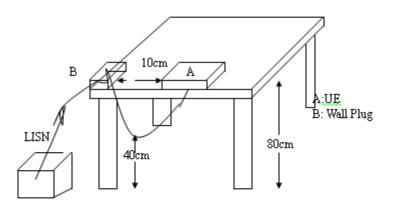
- 1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
- 2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
- 3. The LISN was connected with 120Vac/60Hz power source.

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6.4 Test SET-UP (Block Diagram of Configuration)



6.5 Measurement Procedure

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

6.6 Measurement Result

Note: Refer to next page for measurement data and plots. Note2: The * reveals the worst-case results that closet to the limit.

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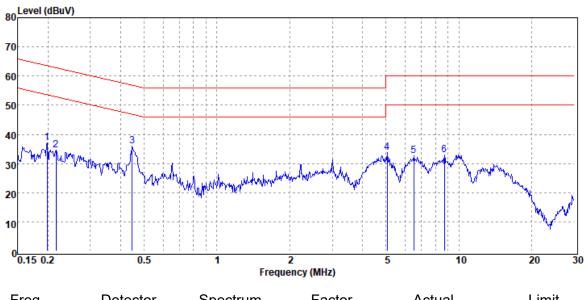
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number	:ER-2021-20006	Test Site	:Conduction 6F
Test Mode	:WLAN 2.4G	Test Date	:2021-02-20
Power	:AC 120V/60Hz	Temp./Humi.	:22.5/47
Probe	:L	Engineer	:Neo Tsai
Note:	:		



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS		
MHz	PK/QP/AV	dBµV	dB	dBµV	dBµV	dB
0.20	Peak	36.94	0.04	36.98	63.67	-26.69
0.22	Peak	34.69	0.04	34.73	62.96	-28.23
0.45	Peak	35.82	0.13	35.95	56.93	-20.98
5.06	Peak	33.34	0.55	33.89	60.00	-26.11
6.52	Peak	32.10	0.65	32.75	60.00	-27.25
8.73	Peak	32.23	0.77	33.00	60.00	-27.00

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Report No.: ER/2021/20006 Page: 19 of 178

Report Number Test Mode Power Probe Note:	:ER-2021-20 :WLAN 2.40 :AC 120V/60 :N :	6		Test Site Test Date Temp./Humi. Engineer	:Conduction (:2021-02-20 :22.5/47 :Neo Tsai	ôF
80 Level (dBuV)						
70						
60						
50						
40				_ 6		
30 Mm Avmming	1 ²		monoral Hilling	and the figure		
20	" " "WIP " My you May	What when and the Mapage and		·····		
10						
0.15 0.2	0.5	1)	5 10	20 30	
0.15 0.2	0.5	Freque	ncy (MHz)	5 10	20 30	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS		
MHz	PK/QP/AV	dBµV	dB	dBµV	dBµV	dB
0.41	Peak	31.08	0.17	31.25	57.59	-26.34
0.45	Peak	32.80	0.20	33.00	56.89	-23.89
6.29	Peak	31.41	0.55	31.96	60.00	-28.04
6.99	Peak	31.84	0.58	32.42	60.00	-27.58
8.73	Peak	33.09	0.66	33.75	60.00	-26.25
9.86	Peak	35.09	0.70	35.79	60.00	-24.21

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DUTY CYCLE OF TEST SIGNAL 7

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.

7.1 Measurement Procedure:

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

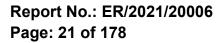
7.2 Duty Cycle:

	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11b	98.22	0.08	1.51	0.01
802.11g	99.20	0.03	0.51	0.01
802.11n_20	99.70	0.01	0.19	0.01
802.11n_40	99.71	0.01	0.19	0.01
802.11ax_20	100.00	0.00	0.00	0.01
802.11ax_40	99.61	0.02	0.24	0.01

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7.3 Duty Cycle test plots

Duty Cycle 802.11b 20MHz Chain0 2412MHz Spectrum Pre-Swept SA KEYSIGHT Input: R R + Couplin Align: L ¢ Frequency . 2.41 Corrections. Off ΔMkr3 676.0 µs Ref Lvi Offset 11.70 dB Ref Level 31.70 dBm Div 10 dB -1.56 d Swept Span Xa Full Span Start Freq 2.412000000 GHz Stop Freq 2.4120000 AUTO TUNE #Video BW 8.0 MHz Center 2.4120 Res BW 8 MH: 00 MH Auto Man Mod A2
 K
 Y

 664.0 μs
 (Δ)
 0.2256 dB

 568.0 μs
 16.04 dBm

 676.0 μs
 (Δ)
 -1.563 dB

 568.0 μs
 16.04 dBm
 (Δ) Freq Offse 0 Hz Δ4 (Δ) X Axis Scale Feb 03, 2021
 4:06:23 PM
 .# 💘 🕂 🗙

Duty Cycle _802.11g_20MHz_Chain0_2412MHz



Duty Cycle _802.11n_20MHz_Chain0_2412MHz

wept SA		+							4	Frequenc	y ,
	Input: RF Coupling: DC Align: Light	C	put Z: 50 Ω orrections: Off req Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Volt Trig: Free Run		123456 WWWWWW PNNNNN		Frequency 000000 GHz	Sett
Spectrum	•		,	Ref Lvi Offset 11.		Δ	Mkr3	5.412 ms	Span 0.000	00000 Hz	
cale/Div 10 d	B		,	Ref Level 31.70 d	IBm			-0.18 dB		vept Span tro Span	
1.7 1 7 put bib in .70	-	-		-	any share to be first		344			Full Span	
30		-					-		Start F 2.412	req 000000 GHz	
8.3 8.3 8.3									Stop F 2.412	req 000000 GHz	
8.3 Inter 2,41200	0000 GH7			#Video BW 8.0	MHz			Span 0 Hz	A	JTO TUNE	
s BW 8 MHz				Prideo Bit d.o		Sweep	p 10.0 ms	(10001 pts)	CF Ste 8.000	P 000 MHz	
Mode	Trace Sca	le	x	Y	Function	Function Width	Functi	on Value			
1 <u>A2</u>	1 t	(Δ)	5.396 ms						Freq C	ffeet	
2 F	1 t		2.923 ms						0 Hz	Traffic L	
3 ∆4 4 F	1 1	(Δ)	5.412 ms				-		0 Hz		
4 F 5 6	1 1		2.923 ms	12.14 dBm						pq	
5	C"	?	Feb 03, 2021 4:09:02 PM	ÐA		.::		HX	Signal (Spen 2	Track	

Duty Cycle 802.11ax 20MHz Chain0 2412MHz

					nout Z: 50 0	#Atten: 3		PNO: Fast	Avg Type: V						
t	GHT →	Align: L		0	Corrections: Off Treq Ref: Int (S)	whilen 3	000	Gate: Off IF Gain: Low Sig Track: Off	Trig: Free R		123456 WWWWWW PNNNNN		r Frequency 2000000 GHz	Setti	ngs
U			_	_			_	Isty matck thin				Span			
Spect	rum		•			tef Lyl Of	set 11.	70 dB		∆Mkr3	5.000 ms	0.000	000000 Hz		
	Div 10 d	в			F	tef Level :	80.00 d	Bm			-5.46 dB		wept Span		
.0g		×		4.11				A304			and a star	Ξž	ero Span		
10.0		~	111.5	-				A COLOR OF CALL		a de la dela dela dela	And the second second		Full Span		
10.0		-										Start 1 2.412	Freq 2000000 GHz		
30.0 - 40.0 - 50.0 -							1					Stop 8 2.412	Freq 2000000 GHz		
60.0	2,41200	0000	1.1.			#Video E		1			Span 0 Hz	1	UTO TUNE		
es BV	V 8 MHz	0000 0	-			#VIDEO E	W 0.01	MINZ	Swe	ep 10.0 m	s (10001 pts)	CF St 8.000	ep 0000 MHz		
		Trace	Scale		x	Y	_	Function	Function Width	Fund	tion Value		luto Man		
1	Δ2		t	(Δ)	5.000 ms		64 dB						Office at		
2	F	1	t	1	1.000 ms		dBm					Freq	Juser		
3	Δ4	1	t	(Δ)	5.000 ms		64 dB					0 Hz			
4 5 6	F	1	t		1.000 ms	21.50	dBm					L L	Scale		
-		_		_									.in		
	5			2	Feb 08, 2021 2:07:42 PM	\land						Signa	I Track		

Duty Cycle _802.11n_40MHz_Chain0_2422MHz



Duty Cycle _802.11ax_40MHz_Chain0_2422MHz

.13	IGHT •	Input: F Couplir Align: L		0	nput Z: 50 Ω Corrections: Off Treq Ref: Int (S)	#/	Atten: 30 dB	PNO Gate IF Gai Sig Tr	Off	Avg Type: V Trig: Free R		123456 WWWWWW PNNNNN	2.422	Center Frequency 2.422000000 GHz		ng
pectr	rum		•			-	Lvi Offset 11.	70 40		-	∆Mkr3	4.120 ms	Span	00000 Hz		
ale/C	Div 10 d	B					Level 30.00 d					-0.67 dB		wept Span		
g		_							3Δ4				= ž	ero Span		
0	an a		, X		in the part							-		Full Span		
0													Start F	Freq 0000000 GHz		
0			1			-							Stop F 2.422	req 000000 GHz		
o	2 4220	00000	14.			-	Ideo BW 8.0	MU.,				Span 0 Hz	A	UTO TUNE		
s BV	V 8 MH									Swe	ep 10.0 m	is (10001 pts)	CF St	ep 1000 MHz		
larke	r Table		•											uto		
	Mode	Trace	Scale		х	1	Y	Functi	on F	unction Width	Fund	tion Value		lan		
1	Δ2		t	(Δ)	4.104 m	s (Δ)	-2.584 dB						-			
2	F		t		1.853 m		14.90 dBm						Freq	Jilset		
3	Δ4	1	t	(Δ)	4.120 m								0 Hz			
4	F	1	t		1.853 m	s	14.90 dBm						X Axis	Scale		
5																
6													旧白い	og		

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8.1 Standard Applicable

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

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.

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

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

Gk is the gain in dBi of the kth antenna.

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

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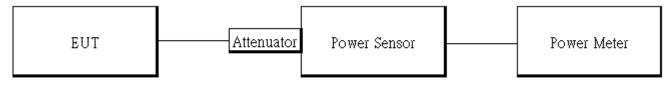


8.2 Measurement Equipment Used

	Conducte	d Emission Test Site	e: Conducted	2	
EQUIPMENT TYPE	MFR/BRAND	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1242004	11/06/2020	11/05/2021
Power Sensor	Anritsu	MA2411B	1207365	11/06/2020	11/05/2021
Power Sensor	Anritsu	MA2411B	1207368	11/06/2020	11/05/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	12/16/2020	12/15/2021
Attenuator	Mini-Circuit	BW-S10W2+	8	12/16/2020	12/15/2021

8.3 Test Set-up

Power Meter:



8.4 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 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.

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

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8.6 Measurement Result

802.1	1b Ch0											
СН	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT						
1	2412	1	18	21.41	30.00	PASS						
6	2437	1	18	21.30	30.00	PASS						
11	2462	1	18	21.25	30.00	PASS						
802.1	802.11b Ch0											
СН	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT						
1	2412	1	18	18.77	30.00	PASS						
6	2437	1	18	18.79	30.00	PASS						
11	2462	1	18	18.70	30.00	PASS						

802.1	1b Ch1										
СН	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT					
1	2412	1	18	20.39	30.00	PASS					
6	2437	1	18	20.70	30.00	PASS					
11	2462	1	18	20.73	30.00	PASS					
802.1	802.11b Ch1										
сн	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT					
1	2412	1	18	18.23	30.00	PASS					
6	2437	1	18	18.11	30.00	PASS					
11	2462	1	18	18.16	30.00	PASS					

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802.1 ⁻	1b_2TX							
СН	Freq. (MHz)	Data Rate	Power set		Dutput wer	Total Peak Output Power	Limit (dBm)	RESULT
	()			CH 0	CH 1	(dBm)	(*=)	
1	2412	1	18	20.06	20.98	23.55	30.00	PASS
6	2437	1	18	19.83	20.88	23.40	30.00	PASS
11	2462	1	18	20.07	21.00	23.57	30.00	PASS
802.1 [°]	1b_2TX				-			
				Avg. C	Dutput	Max. Avg. Output		
СН	Freq.	Data	Power	Po	wer	include tune up	Limit	RESULT
011	(MHz)	Rate	set	(dE	Bm)	tolerance Power	(dBm)	
				CH 0	CH 1	(dBm)		
1	2412	1	18	17.45	18.27	20.97	30.00	PASS
6	2437	1	18	17.26	18.27	20.88	30.00	PASS
11	2462	1	18	17.43	18.19	20.91	30.00	PASS

802.1	1g Ch0											
СН	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT						
1	2412	6	16.5	25.81	30.00	PASS						
6	2437	6	17.5	26.55	30.00	PASS						
11	2462	6	16.5	25.59	30.00	PASS						
802.1	802.11g 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	17.28	30.00	PASS						
6	2437	6	17.5	18.24	30.00	PASS						
11	2462	6	16.5	17.14	30.00	PASS						

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СН	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	16.5	25.95	30.00	PASS
6	2437	6	17.5	26.66	30.00	PASS
11	2462	6	16.5	25.69	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	16.5	16.69	30.00	PASS
6	2437	6	17.5	17.59	30.00	PASS
	2437 2462	6 6	17.5 16.5	17.59 16.76	30.00 30.00	PASS PASS

802.1	1g_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)	
1	2412	6	16.5	26.96	26.31	29.66	30.00	PASS
6	2437	6	17.5	25.92	26.01	28.98	30.00	PASS
11	2462	6	16.5	25.64	26.12	28.90	30.00	PASS
802.1	1g_2TX		•					
				Avg. C	Dutput	Max. Avg. Output		
СН	Freq.	Data	Power	Po	wer	include tune up	Limit	RESULT
СП	(MHz)	Rate	set	(dE	3m)	tolerance Power	(dBm)	RESULT
				CH 0	CH 1	(dBm)		
1	2412	6	16.5	16.59	17.37	20.04	30.00	PASS
6	2437	6	17.5	17.51	18.34	20.99	30.00	PASS
11	2462	6	16.5	16.73	17.16	20.00	30.00	PASS

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JUZ.1	1n_HT20M					
СН	Freq.	Data	Power	Peak Output Power	Limit	RESULT
	(MHz)	Rate	set	(dBm)	(dBm)	
1	2412	MCS0	16	25.20	30.00	PASS
6	2437	MCS0	17.5	26.52	30.00	PASS
11	2462	MCS0	16.5	25.60	30.00	PASS
802.1 [·]	1n_HT20M	Ch0				
				Max. Avg. Output		
СН	Freq.	Data	Power	include tune up	Limit	RESULT
011	(MHz)	Rate	set	tolerance Power	(dBm)	INLOOL I
				(dBm)		
1	2412	MCS0	16	16.68	30.00	PASS
6	2437	MCS0	17.5	18.15	30.00	PASS
11	2462	MCS0	16.5	16.94	30.00	PASS
802.1	1n_HT20	/ Ch1				
	Freq.	Data	Power	Peak Output	Limit	
СН	(MHz)	Rate	set	Power	(dBm)	RESULT
	(11112)	Nate	301	(dBm)	(abiii)	
1	2412	MCS0	16	25.02	30.00	PASS
6	2437	MCS0	17.5	26.72	30.00	PASS
11	2462	MCS0	16.5	25.46	30.00	PASS
802.1	1n_HT20	/I Ch1				
				Max. Avg. Output		
СН	Freq.	Data	Power	include tune up	Limit	RESULT
V 11	(MHz)	Rate	set	tolerance Power	(dBm)	
				(dBm)		
		11000	16	16.00	30.00	PASS
1	2412	MCS0	-	10.00	00.00	
6	2412 2437	MCS0	17.5	17.46	30.00	PASS
			-			

(W) ポラプ目がの 「山根古宅未留到海政之体的見具「同時山後和国味田智巧、報告本総中公司皆国町町」 ゲロ回び投設。 This document is issued by the Company subject to is General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document to the reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

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сн	Freq. (MHz)	Data Rate		Power set		Output ower CH 1	Total Pea Output Pov (dBm)		Limit (dBm)	RESUL
1	2412	MCS	8	16	25.18	25.13	28.17		30.00	PASS
6	2437	MCS		17.5	25.99	25.97	28.99		30.00	PASS
11	2462	MCS		16.5	25.93	26.62	29.30		30.00	PASS
	In_HT20M			10.0	20.00	20.02	20100		00.00	
-		_			Avg.	Output	Max. Avg. Ou	tput		
	Freq.	Dat	a	Power	-	wer	include tune	-	Limit	
СН	(MHz)	Rat	e	set		Bm)	tolerance Po	•	(dBm)	RESUL
	()		-		CH 0	CH 1	(dBm)		()	
1	2412	MCS	8	16	15.91	16.78	19.39		30.00	PASS
6	2437	MCS		17.5	17.44	18.16	20.84		30.00	PASS
11	2462	MCS		16.5	16.57	17.03	19.83		30.00	PASS
802.1	1ax_HE20	JM Ch0				Deals	0			
~	Freq.	Data	RU	Po	wer		Output		Limit	
СН	(MHz)	Rate	Confi	g s	et		ower		(dBm)	RESULT
	. ,					•	lBm)		. ,	5100
			full		5		4.54		30.00	PASS
1	2412	MCS0	26/0		3.5		7.15		30.00 30.00	PASS
			52/37		8		7.84			PASS
			106/5		8		7.22		30.00	PASS
6	2437	MCS0	full		7.5		6.85		30.00	PASS
			full		5.5		5.71		30.00	PASS
11	2462	MCS0	26/8		8		7.94		30.00	PASS
			52/40		8		7.01		30.00	PASS
004	4 1150/		106/5	4 1	8	2	8.13		30.00	PASS
502.1	1ax_HE20			<u> </u>	I	May A.	a Autout			
	Eroa	Dete	יום	De	wer		/g. Output		Limit	
СН	Freq. (MHz)	Data Rate	RU				e tune up			RESULT
	(INI TTZ)	Rate	Confi	gs	et		ice Power		(dBm)	
			ال £		F		IBm)		20.00	PASS
			full 26/0		5 3.5		5.59 8.35		30.00 30.00	PASS
1	2412	MCS0								PASS
			52/37 106/5		8		7.94		30.00	PASS
6	2437	MCS0	full		8 7.5		8.04 8.11		30.00 30.00	PASS
0	2431	IVICSU	full		5.5 5.5		6.10		30.00	PASS
					5.5 8					PASS
11	2462	MCS0	26/8 52/40				8.26		30.00	PASS
	1		- JZ/4U	, , , ,	8	1	8.25		30.00	r Agg



802.1	1ax_HE2	M Ch1					
СН	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
			full	15	24.63	30.00	PASS
1	2412	MCS0	26/0	18.5	27.41	30.00	PASS
	2412	101000	52/37	18	27.65	30.00	PASS
			106/53	18	27.47	30.00	PASS
6	2437	MCS0	full	17.5	27.25	30.00	PASS
			full	15.5	25.52	30.00	PASS
11	2462	MCS0	26/8	18	27.36	30.00	PASS
	- 2702	10000	52/40	18	27.81	30.00	PASS
			106/54	18	28.49	30.00	PASS
802.1	1ax_HE2	M Ch1				•	
					Max. Avg. Output		
сн	Freq.	Data	RU	Power	include tune up	Limit	RESULT
	(MHz)	Rate	Config	set	tolerance Power	(dBm)	RECOLI
					(dBm)		
			full	15	14.87	30.00	PASS
1	2412	MCS0	26/0	18.5	17.93	30.00	PASS
'	2712	10000	52/37	18	17.47	30.00	PASS
			106/53	18	17.68	30.00	PASS
6	2437	MCS0	full	17.5	17.60	30.00	PASS
			full	15.5	15.51	30.00	PASS
11	2462	MCS0	26/8	18	17.83	30.00	PASS
							D 4 0 0
11	2102		52/40	18	17.71	30.00	PASS



002.1	1ax_HE20)						
СН	Freq. (MHz)	Data Rate	RU Config	Power set		Dutput wer CH 1	Total Peak Output Power (dBm)	Limit (dBm)	RESULT
			full	15	24.26	25.50	27.93	30.00	PASS
1	2412	MCS0	26/0	18.5	27.07	18.20	27.60	30.00	PASS
I	2412	MCS0	52/37	18	26.76	27.13	29.96	30.00	PASS
			106/53	18	26.81	27.06	29.95	30.00	PASS
6	2437	MCS0	full	17.5	26.26	26.21	29.25	30.00	PASS
			full	15.5	25.28	25.42	28.36	30.00	PASS
11	2462	MCS0	26/8	18	26.94	26.92	29.94	30.00	PASS
11	2402	1000	52/40	18	26.81	26.76	29.80	30.00	PASS
			106/54	18	26.95	26.86	29.92	30.00	PASS
802.1 <i>°</i>	1ax_HE20	ОМ МІМС)						•
					Avg. C	Dutput	Max. Avg. Output		
СН	Freq.	Data	RU	Power	Do	wer	In all of a form a con-	1	
011					FU	WEI	include tune up	Limit	RESULT
	(MHz)	Rate	Config	set	_	Bm)	tolerance Power	(dBm)	RESULT
	(MHz)	Rate			_	Bm) CH 1	-		RESULT
	(MHz)	Rate			(dE	Bm)	tolerance Power		PASS
1	. ,		Config	set	(dE CH 0	Bm) CH 1	tolerance Power (dBm)	(dBm)	
1	(MHz) 2412	Rate MCS0	Config full	set 15	(dE CH 0 14.84	Bm) CH 1 15.73	tolerance Power (dBm) 18.32	(dBm) 30.00	PASS
1	. ,		Config full 26/0	set 15 18.5	(dE CH 0 14.84 17.75	Bm) CH 1 15.73 18.18	tolerance Power (dBm) 18.32 20.98	(dBm) 30.00 30.00	PASS PASS PASS PASS
1	. ,		Config full 26/0 52/37	set 15 18.5 18	(dE CH 0 14.84 17.75 17.41	CH 1 15.73 18.18 17.84	tolerance Power (dBm) 18.32 20.98 20.64	(dBm) 30.00 30.00 30.00	PASS PASS PASS PASS PASS
	2412	MCS0	Config full 26/0 52/37 106/53	set 15 18.5 18 18	(dE CH 0 14.84 17.75 17.41 17.50	Bm) CH 1 15.73 18.18 17.84 18.19	tolerance Power (dBm) 18.32 20.98 20.64 20.87	(dBm) 30.00 30.00 30.00 30.00	PASS PASS PASS PASS
6	2412	MCS0 MCS0	Config full 26/0 52/37 106/53 full	set 15 18.5 18 18 18 17.5	(dE CH 0 14.84 17.75 17.41 17.50 17.43	Sm) CH 1 15.73 18.18 17.84 18.19 18.25 16.07 18.26	tolerance Power (dBm) 18.32 20.98 20.64 20.87 20.87	(dBm) 30.00 30.00 30.00 30.00 30.00	PASS PASS PASS PASS PASS PASS PASS
-	2412	MCS0	Config full 26/0 52/37 106/53 full full	set 15 18.5 18 18 17.5 15.5	(dE CH 0 14.84 17.75 17.41 17.50 17.43 15.49	Sm) CH 1 15.73 18.18 17.84 18.19 18.25 16.07	tolerance Power (dBm) 18.32 20.98 20.64 20.87 20.87 18.80	(dBm) 30.00 30.00 30.00 30.00 30.00 30.00	PASS PASS PASS PASS PASS PASS



802.1	1n_HT40I	VI Ch0				
сн	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	16	24.02	30.00	PASS
6	2437	MCS0	17.5	26.10	30.00	PASS
9	2452	MCS0	14.5	23.25	30.00	PASS
802.1	1n_HT401	VI Ch0				
сн	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	16	16.43	30.00	PASS
6	2437	MCS0	17.5	18.25	30.00	PASS
9	2452	MCS0	14.5	15.43	30.00	PASS

802.1	1n_HT40	M Ch1				
СН	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	16	24.49	30.00	PASS
6	2437	MCS0	17.5	25.92	30.00	PASS
9	2452	MCS0	15	23.85	30.00	PASS
802.1 ⁻	1n_HT40	M Ch1			-	
СН	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	16	15.94	30.00	PASS
6	2437	MCS0	17.5	17.44	30.00	PASS
9	2452	MCS0	15	15.02	30.00	PASS

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802.1 ⁻	1n_HT401							
сн	Freq. (MHz)	Data Rate	Power set		Dutput wer CH 1	Total Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS8	16	24.19	24.52	27.37	30.00	PASS
6	2437	MCS8	17.5	25.63	25.81	28.73	30.00	PASS
9	2452	MCS8	15	23.96	23.89	26.94	30.00	PASS
802.1	1n_HT401	M MIMO						
				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)	NEOOL I
				CH 0	CH 1	(dBm)		
3	2422	MCS8	16	15.89	16.34	19.14	30.00	PASS
6	2437	MCS8	17.5	17.33	18.26	20.84	30.00	PASS
9	2452	MCS8	15	14.89	15.49	18.22	30.00	PASS

802.1 ⁻	1ax_HE40	M Ch0					
СН	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	15.5	24.02	30.00	PASS
ľ	2722		242/61	18	27.04	30.00	PASS
6	2437	MCS0	full	17.5	26.18	30.00	PASS
9	2452	MCS0	full	14.5	22.86	30.00	PASS
	2752	10000	242/62	17.5	26.51	30.00	PASS
802.1 ⁻	1ax_HE40	M Ch0					
					Max. Avg. Output		
СН	Freq.	Data	RU	Power	include tune up	Limit	RESULT
	(MHz)	Rate	Config	set	tolerance Power	(dBm)	RECOL
					(dBm)		
3	2422	MCS0	full	15.5	15.85	30.00	PASS
	2722	10000	242/61	18	18.32	30.00	PASS
6	2437	MCS0	full	17.5	18.08	30.00	PASS
9	2452	MCS0	full	14.5	14.80	30.00	PASS
	2102		242/62	17.5	18.06	30.00	PASS



802.1	1ax_HE40	OM Ch1					
СН	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	15.5	24.21	30.00	PASS
Ŭ		mooo	242/61	18	27.33	30.00	PASS
6	2437	MCS0	full	17.5	26.55	30.00	PASS
9	2452	MCS0	full	14.5	23.60	30.00	PASS
	2402		242/62	17.5	27.31	30.00	PASS
802.1	1ax_HE40	OM Ch1					
СН	Freq. (MHz)	Data Rate	RU Config	Power set	Max. Avg. Output include tune up tolerance Power	Limit (dBm)	RESULT
			<u> </u>		(dBm)	20.00	PASS
3	2422	MCS0	full 242/61	15.5 18	15.37 18.05	30.00 30.00	PASS
6	2437	MCS0	full	17.5	17.46	30.00	PASS
9	2452	MCS0	full	14.5	14.41	30.00	PASS
	2702		242/62	17.5	17.65	30.00	PASS

802.1	1ax_HE40)						
СН	Freq. (MHz)	Data Rate	RU Config	Power set		Dutput wer	Total Peak Output Power	Limit (dBm)	RESULT
	(101112)	Nate	comig	361	CH 0	CH 1	(dBm)	(abiii)	
3	2422	MCS0	full	15.5	23.83	24.21	27.03	30.00	PASS
0		10000	242/6	18	26.63	26.88	29.77	30.00	PASS
6	2437	MCS0	full	17.5	26.15	26.23	29.20	30.00	PASS
9	2452	MCS0	full	14.5	22.82	23.17	26.01	30.00	PASS
5	2752	10000	242/6	17.5	26.38	26.66	29.53	30.00	PASS
802.1	1ax_HE40	M MIMC)						
					Avg. C	Dutput	Max. Avg. Output		
СН	Freq.	Data	RU	Power	Po	wer	include tune up	Limit	RESULT
СП	(MHz)	Rate	Config	set	(dE	3m)	tolerance Power	(dBm)	RESULT
					CH 0	CH 1	(dBm)		
3	2422	MCS0	full	15.5	15.23	15.92	18.62	30.00	PASS
5	2422	WC00	242/6	18	17.65	18.26	20.99	30.00	PASS
6	2437	MCS0	full	17.5	17.28	18.14	20.76	30.00	PASS
9	2452	MCS0	full	14.5	14.35	14.78	17.60	30.00	PASS
5	2452	101000	242/6	17.5	17.48	18.25	20.91	30.00	PASS



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

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. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。



EIRP

802.1	1b Ch0						
сн			Avg. Output Power (dBm) Antenn (dBi)		EIRP (dBm)	Limit (dBm)	RESULT
1	2412	1	18.77	-0.75	18.02	36	PASS
6	2437	1	18.79	-0.75	18.04	36	PASS
11	2462	1	18.70	-0.75	17.95	36	PASS

802.1	802.11b Ch1										
сн	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT				
1	2412	1	18.23	-3.13	15.10	36	PASS				
6	2437	1	18.11	-3.13	14.98	36	PASS				
11	2462	1	18.16	-3.13	15.03	36	PASS				

802.1	1b_2TX								
СН	Freq. (MHz)	(MHz) Rate (dBm) Output Power Gain (dBm)		Limit (dBm)	RESULT				
	(11112)	Nuto	CH 0	CH 1	(dBm)	(dBi)	(abiii)	(abiii)	
1	2412	1	17.45	18.27	20.97	1.23	22.20	36	PASS
6	2437	1	17.26	18.27	20.88	1.23	22.11	36	PASS
11	2462	1	17.43	18.19	20.91	1.23	22.14	36	PASS

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802.1	1g Ch0						
сн	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	6	17.28	-0.75	16.53	36	PASS
6	2437	6	18.24	-0.75	17.49	36	PASS
11	2462	6	17.14	-0.75	16.39	36	PASS

802.1	802.11g Ch1										
сн	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT				
1	2412	6	16.69	-3.13	13.56	36	PASS				
6	2437	6	17.59	-3.13	14.46	36	PASS				
11	2462	6	16.76	-3.13	13.63	36	PASS				

802.11g_2TX									
сн	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Total Avg. Output Power	Antenna Gain	EIRP (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1	(dBm)	(dBi)			
1	2412	6	16.59	17.37	20.04	1.23	21.27	36	PASS
6	2437	6	17.51	18.34	20.99	1.23	22.22	36	PASS
11	2462	6	16.73	17.16	20.00	1.23	21.23	36	PASS



802.1	802.11n_HT20M Ch0											
сн	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT					
1	2412	MCS0	16.68	-0.75	15.93	36	PASS					
6	2437	MCS0	18.15	-0.75	17.40	36	PASS					
11	2462	MCS0	16.94	-0.75	16.19	36	PASS					

802.11n_HT20M Ch1											
сн	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT				
1	2412	MCS0	16.00	-3.13	12.87	36	PASS				
6	2437	MCS0	17.46	-3.13	14.33	36	PASS				
11	2462	MCS0	16.62	-3.13	13.49	36	PASS				

802.1	802.11n_HT20M MIMO										
СН	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Total Avg. Output Power	Antenna Gain	EIRP (dBm)	Limit (dBm)	RESULT		
		Rate	CH 0	CH 1	(dBm)	(dBi)	(
1	2412	MCS8	25.18	25.13	19.39	1.23	20.62	36	PASS		
6	2437	MCS8	25.99	25.97	20.84	1.23	22.07	36	PASS		
11	2462	MCS8	25.93	26.62	19.83	1.23	21.06	36	PASS		



802.1	802.11n_HT40M Ch0											
СН	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT					
3	2422	MCS0	16.43	-0.75	15.68	36	PASS					
6	2437	MCS0	18.25	-0.75	17.50	36	PASS					
9	2452	MCS0	15.43	-0.75	14.68	36	PASS					

802.1	802.11n_HT40M Ch1										
сн	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT				
3	2422	MCS0	15.94	-3.13	12.81	36	PASS				
6	2437	MCS0	17.44	-3.13	14.31	36	PASS				
9	2452	MCS0	15.02	-3.13	11.89	36	PASS				

802.1	802.11n_HT40M MIMO										
сн	Freq. (MHz)	Data Rate	Avg	. Output Power (dBm)	Total Avg. Output Power (dBm)	Antenna Gain	EIRP (dBm)	Limit (dBm)	RESULT		
		Nute	CH 0	CH 1		(dBi)		(ubiii)			
3	2422	MCS8	15.89	16.34	19.14	1.23	20.37	36	PASS		
6	2437	MCS8	17.33	18.26	20.84	1.23	22.07	36	PASS		
9	2452	MCS8	14.89	15.49	18.22	1.23	19.45	36	PASS		



802.1	1ax_HE2	20M Ch	0																								
сн	Freq. (MHz)	Data Rate	RU Config	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT																			
			full	15.59	-0.75	14.84	36	PASS																			
1	2412	MCS0	MCS0	26/0	18.35	-0.75	17.60	36	PASS																		
	2412				NC30	NCOU	52/37	17.94	-0.75	17.19	36	PASS															
			106/53	18.04	-0.75	17.29	36	PASS																			
6	2437	MCS0	full	18.11	-0.75	17.36	36	PASS																			
			full	16.10	-0.75	15.35	36	PASS																			
11	2462	MCS0	MCSO	MCSO	MCSO	MCSO		MCSO	MCCO	MCCO	MCSO	MCSO	MCCO	MCSO	26/8	18.26	-0.75	17.51	36	PASS							
	2402		52/40	18.25	-0.75	17.50	36	PASS																			
			106/54	18.98	-0.75	18.23	36	PASS																			

802.1	1ax_HE2	20M Ch′	1																											
сн	Freq. (MHz)	Data Rate	RU Config	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT																						
			full	14.87	-3.13	11.74	36	PASS																						
1	2412	MCS0	MCS0	MCS0	MCS0	MCS0	26/0	17.93	-3.13	14.80	36	PASS																		
	2412					52/37	17.47	-3.13	14.34	36	PASS																			
			106/53	17.68	-3.13	14.55	36	PASS																						
6	2437	MCS0	full	17.60	-3.13	14.47	36	PASS																						
			full	15.51	-3.13	12.38	36	PASS																						
11	1 2462	MCS0	MCS0	MCSO	MCSO	MCSO	MCSO	MCSO	MCSO	MCSO	MCSO	MCSO	MCSO	MCSO	MCSO	MCSO	MCSO	MCSO	MCSO	MCSO	MCSO	MCSO	MCSO	MCSO	26/8	17.83	-3.13	14.70	36	PASS
	2402			52/40	17.71	-3.13	14.58	36	PASS																					
			106/54	18.43	-3.13	15.30	36	PASS																						

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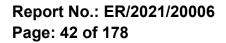
802.1	1ax_HE	20M MI	MO									
сн	Freq. (MHz)	Data Rate	RU Confi	Avg	. Output Power (dBm)	Total Avg. Output Power (dBm)	Antenna Gain	EIRP (dBm)	Limit	RESULT		
	(10112)	Nate	g	CH 0	CH 1		(dBi)	(ubiii)				
			full	14.84	15.73	18.32	1.23	19.55	36	PASS		
1	1 2412 MCS	MCSO	2 MCS0	26/0	17.75	18.18	20.98	1.23	22.21	36	PASS	
			52/37	17.41	17.84	20.64	1.23	21.87	36	PASS		
						106/53	17.50	18.19	20.87	1.23	22.10	36
6	2437	MCS0	full	17.43	18.25	20.87	1.23	22.10	36	PASS		
			full	15.49	16.07	18.80	1.23	20.03	36	PASS		
11	2462	MCS0	26/8	17.44	18.26	20.88	1.23	22.11	36	PASS		
	2402	IVIC SU	52/40	17.47	18.25	20.89	1.23	22.12	36	PASS		
			106/54	17.70	18.22	20.98	1.23	22.21	36	PASS		



802.1	802.11ax_HE40M Ch0											
сн	Freq. (MHz)	Data Rate	RU Config	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT				
3	2422	MCS0	MCSO	full	15.85	-0.75	15.10	36	PASS			
5	2422		242/61	18.32	-0.75	17.57	36	PASS				
6	2437	MCS0	full	18.08	-0.75	17.33	36	PASS				
9	2452	52 MCS0	MCSO	full	14.80	-0.75	14.05	36	PASS			
9	2492		242/62	18.06	-0.75	17.31	36	PASS				

802.1	1ax_HE4	40M Ch1							
сн	Freq. (MHz)	Data Rate	RU Config	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT	
3	2422	MCS0	MCSO	full	15.37	-3.13	12.24	36	PASS
5	2422		242/61	18.05	-3.13	14.92	36	PASS	
6	2437	MCS0	full	17.46	-3.13	14.33	36	PASS	
9	2452	MCS0	full	14.41	-3.13	11.28	36	PASS	
9	2492		242/62	17.65	-3.13	14.52	36	PASS	

802.1	1ax_HE4	40M MI	MO							
сн	Freq. (MHz)	Data Rate	RU Confi	Avg. Output Power (dBm)		Total Avg. Output Power	Antenna Gain	EIRP (dBm)	Limit	RESULT
	(11112)	Tale	g	CH 0	CH 1	(dBm)	(dBi)	(abiii)		
3	2422	MCS0	full	15.23	15.92	18.62	1.23	19.85	36	PASS
3	2422	10030	242/61	17.65	18.26	20.99	1.23	22.22	36	PASS
6	2437	MCS0	full	17.28	18.14	20.76	1.23	21.99	36	PASS
9	2452	MCS0	full	14.35	14.78	17.60	1.23	18.83	36	PASS
9	2402	10030	242/62	17.48	18.25	20.91	1.23	22.14	36	PASS





9 EMISSION BANDWIDTH MEASUREMENT

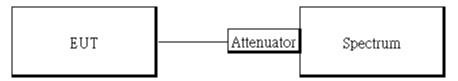
9.1 Standard Applicable

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

9.2 Measurement Equipment Used

Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR/BRAND	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071571	06/27/2020	06/26/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021

9.3 Test Set-up



9.4 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 .
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. Set the spectrum analyzer as RBW= 100kHz , VBW = 3 X RBW, Span= 2 to 5 times of the OBW, Sweep=auto, Detector = Peak, and Max hold for -6dB Bandwidth test.
- 5. Set the spectrum analyzer as

RBW= 1 % to 5% of 99% Bandwidth , VBW ≥ 3 X RBW, Span= large enough to capture all products of the modulation process, Sweep=auto, Detector = Peak, and Max hold for 99% Bandwidth test.

- S Turn on the 000/ hendwidth function may reading
- 6. Turn on the 99% bandwidth function, max reading.
- 7. Repeat above procedures until all test default channel is completed

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9.5 6dB Bandwidth

802.11b Ch0

Freq.	6dB BW	Limit	Result
(MHz)	(kHz)	(kHz)	Result
2412	8105.00	> 500	PASS
2437	8103.00	> 500	PASS
2462	8064.00	> 500	PASS

802.11b Ch1

Freq.	6dB BW	Limit	Result
(MHz)	(kHz)	(kHz)	Result
2412	8107.00	> 500	PASS
2437	8108.00	> 500	PASS
2462	8060.00	> 500	PASS

802.11g Ch0

Freq.	6dB BW	Limit	Result
(MHz)	(kHz)	(kHz)	Result
2412	16080.00	> 500	PASS
2437	16350.00	> 500	PASS
2462	16320.00	> 500	PASS

802.11g Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	15950.00	> 500	PASS
2437	16390.00	> 500	PASS
2462	16380.00	> 500	PASS

802.11 n_HT20 Ch0

Freq.	6dB BW	Limit	Result
(MHz)	(kHz)	(kHz)	Result
2412	16950.00	> 500	PASS
2437	17560.00	> 500	PASS
2462	17210.00	> 500	PASS

802.11_n_HT20 Ch1

Freq.	6dB BW	Limit	Result
(MHz)	(kHz)	(kHz)	Nesult
2412	17180.00	> 500	PASS
2437	17600.00	> 500	PASS
2462	17600.00	> 500	PASS

802.11_ax_HE20 Ch0

Freq.	6dB BW	Limit	Result
(MHz)	(kHz)	(kHz)	Nesuit
2412	18830.00	> 500	PASS
2437	18940.00	> 500	PASS
2462	18950.00	> 500	PASS

802.11 ax HE20 Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	18720.00	> 500	PASS
2437	18890.00	> 500	PASS
2462	18870.00	> 500	PASS

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802.11_n_HT40 Ch0

Freq.	6dB BW	Limit	Result
(MHz)	(kHz)	(kHz)	Result
2422	35400.00	> 500	PASS
2437	36080.00	> 500	PASS
2452	35720.00	> 500	PASS

802.11_n_HT40 Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35750.00	> 500	PASS
2437	36350.00	> 500	PASS
2452	35750.00	> 500	PASS

802.11_ax_HE40 Ch0

Freq.	6dB BW	Limit	Result
(MHz)	(kHz)	(kHz)	Nesuit
2422	37590.00	> 500	PASS
2437	37900.00	> 500	PASS
2452	37500.00	> 500	PASS

802.11 ax HE40 Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	37140.00	> 500	PASS
2437	37900.00	> 500	PASS
2452	37750.00	> 500	PASS

* Note: Offset 11.7dB for 2.4G 802.11b/g/n_20

*Refer to next page for plots

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OBW 6dB 802.11g 20MHz Chain0 2412MHz

OBW 6dB_802.11g_20MHz_Chain1_2412MHz



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SIGHT Input: RF Input Z: 50 Ω Atten: 30			Occupied BW					у •
Coupling: DC Align: Light Corrections: Off Freq Ref: Int (S)	dB Trig: Free Run Center Freq: 2.412000000 GHz Gate: Off Avg Hold: 50/50 #IF Gain: Low Radio Std: None	Center Frequency 2.412000000 GHz	R + Coupling: DC Align: Light F	Input Z: 50 Ω Atten: 30 dB Corrections: Off Freq Ref: Int (S)	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2.412000000 GHz Avg Hold: 50/50 Radio Std: None	Center Frequency 2.412000000 GHz	Sett
		Span 30.000 MHz	LVI 1 Graph V	Ref LvI Offse			Span 30.000 MHz	1
Oragin Ref Lvi Offset 11.70 dB Scale/Div 10.0 dB Ref Value 20.00 dBm Logy Comparison			Scale/Div 10.0 dB		CF Step	4		
		CF Step 3.000000 MHz	Log 10.0	A. 0. 0. 0.	. As the As offer	A alua	3.000000 MHz	
		Auto Man	-10.0	100 million	ho winders we	1 V VIVS	Auto Man	
		Freq Offset	-20.0			10 WWWWWWWW	Freq Offset	1
		0 Hz	-40.0 -50.0				0 Hz	
			-60.0					
r 2.41200 GHz #Video BV	V 300.00 kHz Span 30 Mł	łz	Center 2.41200 GHz	#Video BW 3	00.00 kHz	Span 30 MHz		
BW 100.00 kHz ics v	Sweep 2.93 ms (1001 pt	s)	#Res BW 100.00 kHz 2 Metrics v			Sweep 2.93 ms (1001 pts)		
Occupied Bandwidth			Occupied Bandwidth					
18.846 MHz	Total Power 22.8 dBm		18.151 M		Total Power	26.8 dBm		
Transmit Freq Error 37.160 kHz x dB Bandwidth 18.83 MHz	% of OBW Power 99.00 % x dB -6.00 dB		Transmit Freq Error x dB Bandwidth	-528.77 kHz 17.10 MHz	% of OBW Pow x dB	er 99.00 % -6.00 dB		
(
Mar 04, 2021 ▲				Mar 03, 2021				
	/Hz_Chain0_2412MHz_RL	1106 53	OBW 6c	IR 802 11ax	20MHz (Chain0_2437MH	7	
rum Analyzer 1 v +		Frequen	Spectrum Analyzer 1 V]			Frequence	y ,
SIGHT Input: RF Input Z: 50 Ω Atten: 30 →→ Align: Light Freq Ref: Int (S)	dB Trig: Free Run Center Freq: 2.412000000 GHz Gate: Off Avg Hold: 50/50 #IF Gain: Low Radio Std: None	Center Frequency 2.412000000 GHz	Coupling: DC C	Input Z: 50 Ω Atten: 30 dB Corrections: Off Freq Ref: Int (S)	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2.437000000 GHz Avg Hold: 50/50 Radio Std: None	Center Frequency 2.437000000 GHz	Sett
		Span	La la				Span	1
	fset 11.70 dB 20.00 dBm	30.000 MHz	1 Graph V Scale/Div 10.0 dB	Ref Lvi Offse Ref Value 20.			30.000 MHz	-
		CF Step 3.000000 MHz					CF Step 3.000000 MHz	
	mporta Analy and a second a s	Auto	0.00	here	- and a second and a	mahand	- Auto	1
	พุญหายาย	Man Man	-20.0			A A A A A A A A A A A A A A A A A A A	Man Since	-
	A A A A A A A A A A A A A A A A A A A	Freq Offset 0 Hz	-30.0				Freq Offset 0 Hz	
			-50.0					5
		-	-70.0					
r 2.41200 GHz #Video B\ BW 100.00 kHz	V 300.00 kHz Span 30 Mł Sweep 2.93 ms (1001 pt		Center 2.43700 GHz #Res BW 100.00 kHz	#Video BW 3	00.00 kHz	Span 30 MHz Sweep 2.93 ms (1001 pts)		
ics V			2 Metrics					
Occupied Bandwidth			Occupied Bandwidth					
18.220 MHz Transmit Freq Error -523.74 kHz	Total Power 26.7 dBm % of OBW Power 99.00 %		18.882 M Transmit Freq Error	-6.756 kHz	Total Power % of OBW Pow	25.7 dBm er 99.00 %		
x dB Bandwidth 18.15 MHz	x dB -6.00 dB		x dB Bandwidth	18.94 MHz	x dB	-6.00 dB		
Mar 03, 2021			■ ² ■ ?	Feb 25, 2021				
					001411			
	MHz_Chain0_2412MHz_R	Frequen	Spectrum Analyzer 1 +	1D_002.118X		Chain0_2462MH	Frequence	y v
SIGHT Input: RF Input Z: 50 Ω Atten: 30 Coupling: DC Corrections: Off	Gate: Off Avg Hold: 50/50	Center Frequency 2.412000000 GHz	KEYSIGHT Input: RF Coupling: DC	Input Z: 50 Ω Atten: 30 dB Corrections: Off	Gate: Off	Center Freq: 2.462000000 GHz Avg[Hold: 50/50	Center Frequency 2.462000000 GHz	Setti
Align: Light Freq Ref: Int (S)	#IF Gain: Low Radio Std: None	Span	Align: Light F	Freq Ref: Int (S)	#IF Gain: Low	Radio Std: None	Span	-
	fset 11.70 dB	30.000 MHz	1 Graph	Ref LvI Offse			30.000 MHz	
/Div 10.0 dB Ref Value	20.00 dBm	CF Step	Scale/Div 10.0 dB	Ref Value 20.	00 dBm		CF Step	1
	mon man man man man man man man man man ma	3.000000 MHz	10.0	~	Lunnan man		3.000000 MHz	
		Auto Man	-10.0 -20.0				Man	
	- John Marson	Freq Offset	-30.0				Freq Offset	1
		0 Hz	-40.0				0 Hz	4
		1	-60.0					
r 2.41200 GHz #Video BV	V 300.00 kHz Span 30 Mi		Center 2.46200 GHz	#Video BW 3	00.00 kHz	Span 30 MHz		
BW 100.00 kHz rics v	Sweep 2.93 ms (1001 pt	s)	#Res BW 100.00 kHz 2 Metrics			Sweep 2.93 ms (1001 pts)		
Occupied Bandwidth			Occupied Bandwidth					
18.428 MHz	Total Power 27.4 dBm		18.866 M		Total Power	23.5 dBm		
Transmit Freq Error -649.74 kHz x dB Bandwidth 17.09 MHz	% of OBW Power 99.00 % x dB -6.00 dB		Transmit Freq Error x dB Bandwidth	-10.050 kHz 18.95 MHz	% of OBW Pow x dB	er 99.00 % -6.00 dB		
						-0.00 00		
		11	1					1

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Image: regin product in the regin product	ectrum Analyzer 1 cupied BW	+	last as a last		Frequen	Occupied Bw		+					Frequen	× •
		Corrections: Off	Gate: Off Avg H	old: 50/50		D		Corrections: C	ff	Gate: Off	Avg Hold: 50/50	0	Center Frequency 2.412000000 GHz	Settir
				4.										
						Scale/Div 10.0 dB Ref Value 20.00 dBm							1	
		and all and the shore			3.000000 MHz	10.0					man haven		3.000000 MHz	
		and a second second	rux+		Auto Man	-10.0	ſ		,				Auto Man	
	malling			- monor		-30.0	and a					and and the second		
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						-70.0								
		#Video BW 300	0.00 kHz						#Video BW 30	0.00 kHz	Swee			
	ics 🔻					2 Metrics	•							
Image: Note of the set o	18.	141 MHz					18.8	B42 MHz						
											wer			
Link Address Lin	50	? Mar 03, 2021				1 50		Mar 04, 202 1:46:44 PM						
	OBW 6dB	802.11ax 20M	IHz Chain0	2462MHz R	U26 8	OBW 6	6dB 8	302.11a	x 20MF	Iz Chain	1 2412	MHz RU	106 53	
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