Prüfbericht-Nr.: *Test report no.:*	CN23RJTZ (P15E-WiFi) 001	**Auftrags-Nr.:** *Order no.*:	48224548	Seite 1 von 37 *Page 1 of 37*
Kunden-Referenz-Nr.: *Client reference no.:*	N/A	**Auftragsdatum:** *Order date:*	2023-10-12	
Auftraggeber: *Client:*	medDV GmbH Rudolf-Diesel-Straße 10-12, 35463 Fernwald, Germany			
Prüfgegenstand: *Test item:*	Mobile Medical Assistant			
Bezeichnung / Typ-Nr.: *Identification / Type no.:*	NIDApad			
Auftrags-Inhalt: *Order content*:	FCC Part 15E Test report (WiFi 5GHz)			
Prüfgrundlage: *Test specification:*	FCC 47CFR Part 15: Subpart E Section 15.407			

Wareneingangsdatum: *Date of sample receipt:*	2023-10-04
Prüfmuster-Nr.: *Test sample no:*	A003574313-017
Prüfzeitraum: *Testing period:*	2023-10-20 - 2023-11-08
Ort der Prüfung: *Place of testing:*	EMC/RF Taipei Testing Site
Prüflaboratorium: *Testing laboratory:*	Taipei Testing Laboratories
Prüfergebnis*: *Test result*:*	Pass

überprüft von: *compiled by:*	David Huang	**genehmigt von:** authorized by:	Brenda Chen
Datum: *Date:* 2023-11-23		**Ausstellungsdatum:** *Issue date:* 2023-11-23	
Stellung / *Position:*	David Huang Project Manager	**Stellung** / *Position:*	Senior Project Manager

Sonstiges / *Other:* Only RF output power, worst case of radiated spurious emissions, and mains conducted emission tests were evaluated in this report. For other test results, please refer to module report no.: RF201119E01-1 and RF201119E01-4.

Zustand des Prüfgegenstandes bei Anlieferung: Prüfmuster vollständig und unbeschädigt
Condition of the test item at delivery: *Test item complete and undamaged*

* Legende:	1 = sehr gut	2 = gut	3 = befriedigend	4 = ausreichend	5 = mangelhaft
	P(ass) = entspricht o.g. Prüfgrundlage(n)		F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
** Legend:*	*1 = very good*	*2 = good*	*3 = satisfactory*	*4 = sufficient*	*5 = poor*
	P(ass) = passed a.m. test specification(s)		*F(ail) = failed a.m. test specification(s)*	*N/A = not applicable*	*N/T = not tested*

Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.
This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.
V05

TEST SUMMARY

Report Section	FCC Clause	Test Item	Result
5.1.1	15.407(a) & 15.203	Antenna Requirement	Pass
5.1.2	15.407(a)	Maximum Conducted Output Power	Pass
5.1.3	15.407(h)(1)	Transmit Power Control (TPC)	Pass
-	15.407(a)	26 dB Bandwidth	Note 1
-	2.1049	99% Occupied Bandwidth	Note 1
-	15.407(e)	6 dB Bandwidth (U-NII-3 Band only)	Note 1
-	15.407(g)	Frequency Stability	Note 1
-	15.407(a)	Power Spectral Density	Note 1
5.1.4	15.407(b) & 15.205 & 15.209	Radiated Spurious Emissions and Band Edges	Pass
-	15.407(h) & KDB 905462 D02	Dynamic Frequency Selection	Note 1
5.2.1	15.207	Mains Conducted Emission	Pass

Note:

1. Refer to module report for the details.
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

Contents

HISTORY OF THIS TEST REPORT

Revision	Description	Date Issued
R01	Original Release	2023-11-23

1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:
Appendix A - Test Result of Radiated Emissions & Mains Conducted Emission
Appendix SP - Photographs of Test Setup
Appendix EP - Photographs of EUT

Applied Standard and Test Levels

Radio
FCC 47CFR Part 15: Subpart E Section 15.407
FCC 47CFR Part 2: Subpart J Section 2.1049
ANSI C63.10:2013
KDB 789033 D02 General UNII Test Procedures New Rules v02r01
KDB 662911 D01 Multiple Transmitter Output v02r01

1.2 Decision Rule of Conformity

The decision rule of conformity of this test report is following the requirements of the requested standard in the quotation, and agreed among testing laboratory and manufacturer (applicant) to exclude the consideration of Measurement Uncertainty, unless it is required by the specific standard.

2. Test Sites

2.1 Test Laboratory

Taipei Testing Laboratories

11F. No.758, Sec. 4, Bade Rd., Songshan Dist.
Taipei City 105
Taiwan (R.O.C.)

2.2 Test Facility

Taipei Testing Laboratories

No.458-18, Sec. 2, Fenliao Rd., Linkou Dist.,
New Taipei City 244
Taiwan (R.O.C.)
FCC Registration No.: 180491
ISED Registration No.: 25563

2.3 Traceability

All measurement equipment calibrations are traceable to NML(Taiwan)/NIST(USA) or where calibration is performed outside Taiwan, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically in a suitably accredited Calibration Lab. Additionally all equipment is verified for proper performance on a regular basics using in house standards or comparisons.

2.5 Measurement Uncertainty

All measurement uncertainty values are shown with a coverage factor of k=2 to indicate a 95% level of confidence.

Emission Measurement Uncertainty

Parameter	Uncertainty
Radiated Emission (9 kHz ~ 30 MHz)	± 1.15 dB
Radiated Emission (30 MHz ~ 200 MHz)	± 1.30 dB
Radiated Emission (200 MHz ~ 1 GHz)	± 1.30 dB
Radiated Emission (1 GHz ~ 18 GHz)	± 1.54 dB
Radiated Emission (18 GHz ~ 40 GHz)	± 2.52 dB
Mains Conducted Emission	± 1.65 dB

3. General Product Information

3.1 Product Function and Intended Use

The EUT is a Mobile Medical Assistant. It contains a WLAN compatible module enabling the user to communicate data through a Wireless interface.
For details refer to the User Guide, Data Sheet and Circuit Diagram.

3.2 System Details and Ratings

Basic Information of EUT

Item	EUT information
Kind of Equipment/Test Item	Mobile Medical Assistant
Type Identification	NIDApad
FCC ID	2AWKZ-QCNFA765

Technical Specification of EUT

Item	EUT information
Operating Frequency	Band 1: 5180 MHz ~ 5250 MHz Band 2: 5250 MHz ~ 5320 MHz Band 3: 5500 MHz ~ 5720 MHz Band 4: 5745 MHz ~ 5825 MHz
Channel Number	<5180 MHz ~ 5320 MHz> 8 for 802.11a, 802.11n HT20, 802.11ac VHT20, 802.11ax HE20 4 for 802.11n HT40, 802.11ac VHT40, 802.11ax HE40 2 for 802.11ac VHT80, 802.11ax HE80 1 for 802.11ac VHT160, 802.11ax HE160 <5500 MHz ~ 5720 MHz> 12 for 802.11a, 802.11n HT20, 802.11ac VHT20, 802.11ax HE20 6 for 802.11n HT40, 802.11ac VHT40, 802.11ax HE40 3 for 802.11ac VHT80, 802.11ax HE80 1 for 802.11ac VHT160, 802.11ax HE160 <5745 MHz ~ 5825 MHz> 5 for 802.11a, 802.11n HT20, 802.11ac VHT20, 802.11ax HE20 2 for 802.11n HT40, 802.11ac VHT40, 802.11ax HE40 1 for 802.11ac VHT80, 802.11ax HE80
Data Rate	802.11a: 54.0 / 48.0 / 36.0 / 24.0 / 18.0 / 12.0 / 9.0 / 6.0 Mbps 802.11n: up to MCS7 802.11ac: up to MCS9 802.11ax: up to MCS11
Operation Voltage	7.2 Vdc (Battery) 12 Vdc (Adapter)
Modulation	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) OFDMA (1024QAM)
RF Module	QCNFA765

Item	EUT information
Maximum Output Power (mW)	5180 ~ 5240 MHz: 119.86 5260 ~ 5320 MHz: 123.76 5500 ~ 5720 MHz: 147.84 5745 ~ 5825 MHz: 134.13
Maximum EIRP (mW)	5260 ~ 5320 MHz: 225.42 5500 ~ 5720 MHz: 269.15
Antenna Information	Refer to 5.1.1
Accessory Device	Refer to 4.4

3.3 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.4 Submitted Documents

- Circuit Diagram
- Instruction Manual
- Rating Label
- Technical Description

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The test modes were adapted accordingly in reference to the instructions for use.
During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output expected by the customer and is going to be fixed on the firmware of the final end product.

Table for Parameters of Test Software Setting

802.11a		802.11n HT20 802.11ac VHT20 802.11ax HE20		802.11n HT40 802.11ac VHT40 802.11ax HE40		802.11ac VHT80 802.11ax HE80		802.11ac VHT160 802.11ax HE160	
Channel	Power Setting	Channel	Power Setting	Channel	Power Setting	Channel	Power Setting	Channel	Power Setting
36	17	36	17	38	15.5	42	13	50	12.5
40	19	40	17	46	17	58	14	114	13
44	19	44	17	54	17	106	14.5		
48	18.5	48	17	62	16.5	122	15.5		
52	19	52	17	102	15	138	15.5		
56	19	56	17	110	16.5	138	15.5		
60	19	60	16.5	126	16.5	155	16		
64	17	64	16.5	134	16.5				
100	15.5	100	15.5	142	16.5				
116	20	116	16	142	16.5				
124	20	124	16	151	17				
132	20	132	16	159	17				
140	15.5	140	15.5						
144	20	144	16.5						
144	20	144	16.5						
149	20	149	17						
157	20	157	17.5						
165	20	165	17.5						

<Partial RU>

802.11ax HE20								
Channel	RU Config.	Power Setting	Channel	RU Config.	Power Setting	Channel	RU Config.	Power Setting
36	26/0	14	36	52/37	16	36	106/53	15.5
40	26/0	14	40	52/37	16	40	106/53	15.5
44	26/0	14	44	52/37	16	44	106/53	15.5
48	26/8	14	48	52/40	16	48	106/54	15
52	26/0	13.5	52	52/37	16.5	52	106/53	15.5
56	26/0	13	56	52/37	16	56	106/53	15
60	26/8	13	60	52/40	15.5	60	106/54	15.5
64	26/8	12.5	64	52/40	15	64	106/54	14
100	26/0	13	100	52/37	11.5	100	106/53	10.5
116	26/0	13.5	116	52/37	14	116	106/53	15
124	26/0	13	124	52/37	13.5	124	106/53	14
132	26/0	13	132	52/37	13.5	132	106/53	14.5
140	26/8	11	140	52/40	11.5	140	106/54	11
144	26/0	10.5	144	52/37	13	144	106/53	15
144	26/8	10.5	144	52/40	13	144	106/54	14
149	26/0	15	149	52/37	15	149	106/53	15
157	26/8	16	157	52/40	16	157	106/54	16
165	26/8	16	165	52/40	16	165	106/54	15

802.11ax HE20			802.11ax HE40					
Channel	RU Config.	Power Setting	Channel	RU Config.	Power Setting	Channel	RU Config.	Power Setting
36	242/61	14.5	38	26/9	14	38	52/41	14
40	242/61	15.5	46	26/17	12	46	52/44	14
44	242/61	15.5	54	26/9	14	54	52/41	15.5
48	242/61	15.5	62	26/17	12.5	62	52/44	12.5
52	242/61	15.5	102	26/9	10	102	52/41	10
56	242/61	15.5	110	26/17	9.5	110	52/44	13
60	242/61	15.5	126	26/17	11.5	126	52/44	15
64	242/61	13.5	134	26/9	11.5	134	52/41	13
100	242/61	11	142	26/17	10	142	52/44	13.5
116	242/61	15	142	26/17	10	142	52/44	13.5
124	242/61	15	151	26/9	15	151	52/41	14.5
132	242/61	14.5	159	26/17	16	159	52/44	16.5
140	242/61	9.5						
144	242/61	14.5						
144	242/61	14.5						
149	242/61	14.5						
157	242/61	15.5						
165	242/61	15						

802.11ax HE40								
Channel	RU Config.	Power Setting	Channel	RU Config.	Power Setting	Channel	RU Config.	Power Setting
38	106/55	14.5	38	242/61	15	38	484/65	10.5
46	106/56	14	46	242/62	15	46	484/65	15.5
54	106/55	15.5	54	242/61	16	54	484/65	15.5
62	106/56	12.5	62	242/62	12.5	62	484/65	11.5
102	106/55	10	102	242/61	10	102	484/65	10
110	106/56	14	110	242/62	14.5	110	484/65	13.5
126	106/56	16	126	242/62	16	126	484/65	13.5
134	106/55	11	134	242/62	10	134	484/65	11
142	106/56	14	142	242/62	14.5	142	484/65	15
142	106/56	14	142	242/62	14.5	142	484/65	15
151	106/55	12	151	242/61	15.5	151	484/65	15
159	106/56	16.5	159	242/62	16	159	484/65	15.5

802.11ax HE80			802.11ax HE160		
Channel	RU Config.	Power Setting	Channel	RU Config.	Power Setting
42	996/67	11	50	1992/68	12.5
58	996/67	11.5	114	1992/68	13.5
106	996/67	10			
122	996/67	11.5			
138	996/67	12			
138	996/67	12			
155	996/67	16			

4.2 Carrier Frequency and Channel

Band	Channel	Frequency (MHz)	802.11a 802.11n HT20 802.11ac VHT20 802.11ax HE20	802.11n HT40 802.11ac VHT40 802.11ax HE40	802.11ac VHT80 802.11ax HE80	802.11ac VHT160 802.11ax HE160
U-NII-1 (Band 1)	36	5180	V			
	38	5190		V		
	40	5200	V			
	42	5210			V	
	44	5220	V			
	46	5230		V		
	48	5240	V			
U-NII-2A (Band 2)	50	5250				V
	52	5260	V			
	54	5270		V		
	56	5280	V			
	58	5290			V	
	60	5300	V			
	62	5310		V		
	64	5320	V			
U-NII-2C (Band 3)	100	5500	V			
	102	5510		V		
	104	5520	V			
	106	5530			V	
	108	5540	V			
	110	5550		V		
	112	5560	V			
	114	5570				V
	116	5580	V			
	118	5590		V		
	120	5600	V			
	122	5610			V	
	124	5620	V			
	126	5630		V		
	128	5640	V			
	132	5660	V			
	134	5670		V		
	136	5680	V			
	140	5700	V			
Straddle Channel	138	5690			V	
	142	5710		V		
	144	5720	V			
U-NII-3 (Band 4)	149	5745	V			
	151	5755		V		
	153	5765	V			
	155	5775			V	
	157	5785	V			
	159	5795		V		
	161	5805	V			
	165	5825	V			

4.3 Test Operation and Test Software

Setup for testing: Test samples are provided with an USB interface which makes it possible to control them through a test software installed on a notebook computer.
This software was running on the laptop computer connected to the EUT. It was used to enable the operation modes listed as below.

Test Software	QRCT

The samples were used as follows:
A003574313-017

Full test was applied on all test modes, but only worst case was shown.

The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers.

Modulation Mode	Tx Function
802.11a	2TX (MIMO)
802.11n HT20	2TX (MIMO)
802.11n HT40	2TX (MIMO)
802.11ac VHT20	2TX (MIMO)
802.11ac VHT40	2TX (MIMO)
802.11ac VHT80	2TX (MIMO)
802.11ac VHT160	2TX (MIMO)
802.11ax HE20	2TX (MIMO)
802.11ax HE40	2TX (MIMO)
802.11ax HE80	2TX (MIMO)
802.11ax HE160	2TX (MIMO)

* The modulation and bandwidth are similar for 802.11n mode HT20/HT40 and 802.11ac mode VHT20/VHT40/VHT80/VHT160 and 802.11ax mode HE20/HE40/HE80/HE160, therefore investigated worse case as representative mode in test report.

EUT Configure Mode	Applicable To				Description
	RF Output Power	Radiated Spurious Emissions above 1 GHz	Radiated Spurious Emissions below 1 GHz	Mains Conducted Emission	
-	√	√	√	√	-

Note:
1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when position on **Y-plane**.
2. "-" means no effect.

RF Output Power

☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Frequency (MHz)	Available Channel	Tested Channel	Date Rate (Mbps)
-	802.11a	5180-5250	36 to 48	36, 40, 44, 48	6.0
-		5250-5320	52 to 64	52, 56, 60, 64	
-		5500-5720	100 to 144	100, 116, 124, 132, 140, 144	
-		5745-5825	149 to 165	149, 157, 165	
-	802.11n HT20	5180-5250	36 to 48	36, 40, 44, 48	MCS0
-		5250-5320	52 to 64	52, 56, 60, 64	
-		5500-5720	100 to 144	100, 116, 124, 132, 140, 144	
-		5745-5825	149 to 165	149, 157, 165	
-	802.11n HT40	5180-5250	38 to 46	38, 46	MCS0
-		5250-5320	54 to 62	54, 62	
-		5500-5720	102 to 142	102, 110, 126, 134, 142	
-		5745-5825	151 to 159	151, 159	
-	802.11ac VHT20	5180-5240	36 to 48	36, 40, 44, 48	NSS1 MCS0
-		5260-5320	52 to 64	52, 56, 60, 64	
-		5500-5720	100 to 144	100, 116, 124, 132, 140, 144	
-		5745-5825	149 to 165	149, 157, 165	
-	802.11ac VHT40	5180-5240	38 to 46	38, 46	NSS1 MCS0
-		5260-5320	54 to 62	54, 62	
-		5500-5720	102 to 142	102, 110, 126, 134, 142	
-		5745-5825	151 to 159	151, 159	
-	802.11ac VHT80	5180-5250	42	42	NSS1 MCS0
-		5250-5320	58	58	
-		5500-5720	106 to 138	106, 122, 138	
-		5745-5825	155	155	
-	802.11ac VHT160	5180-5320	50	50	NSS1 MCS0
-		5500-5720	114	114	
-	802.11ax HE20	5180-5240	36 to 48	36, 40, 44, 48	NSS1 MCS0
-		5260-5320	52 to 64	52, 56, 60, 64	
-		5500-5720	100 to 144	100, 116, 124, 132, 140, 144	
-		5745-5825	149 to 165	149, 157, 165	
-	802.11ax HE40	5180-5240	38 to 46	38, 46	NSS1 MCS0
-		5260-5320	54 to 62	54, 62	
-		5500-5720	102 to 142	102, 110, 126, 134, 142	
-		5745-5825	151 to 159	151, 159	
-	802.11ax HE80	5180-5250	42	42	NSS1 MCS0
-		5250-5320	58	58	
-		5500-5720	106 to 138	106, 122, 138	
-		5745-5825	155	155	
-	802.11ax HE160	5180-5320	50	50	NSS1 MCS0
-		5500-5720	114	114	

EUT Configure Mode	Mode	Frequency (MHz)	Available Channel	Tested Channel	Date Rate (Mbps)
-	802.11ax HE20 (RU26 / RU52 / RU106 / RU242)	5180-5240	36 to 48	36, 40, 44, 48	NSS1 MCS0
-		5260-5320	52 to 64	52, 56, 60, 64	
-		5500-5720	100 to 144	100, 116, 124, 132, 140, 144	
-		5745-5825	149 to 165	149, 157, 165	
-	802.11ax HE40 (RU26 / RU52 / RU106 / RU242 / RU484)	5180-5240	38 to 46	38, 46	NSS1 MCS0
-		5260-5320	54 to 62	54, 62	
-		5500-5720	102 to 142	102, 110, 126, 134, 142	
-		5745-5825	151 to 159	151, 159	
-	802.11ax HE80 (RU996)	5180-5250	42	42	NSS1 MCS0
-		5250-5320	58	58	
-		5500-5720	106 to 138	106, 122, 138	
-		5745-5825	155	155	
-	802.11ax HE160 (RU1992)	5180-5320	50	50	NSS1 MCS0
-		5500-5720	114	114	

Radiated Spurious Emissions (Above 1 GHz)

☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Frequency (MHz)	Available Channel	Tested Channel	Note	Date Rate (Mbps)
-	802.11a	5180-5250	36 to 48	48	Harmonic	6.0
-				36	Bandedge	
-		5250-5320	52 to 64	64	Harmonic / Bandedge	
-		5500-5720	100 to 144	140	Harmonic	
-				100	Bandedge	
-		5745-5825	149 to 165	149	Harmonic / Bandedge	
-	802.11ax HE20	5180-5250	36 to 48	40	Harmonic	NSS1 MCS0
-				36	Bandedge	
-		5250-5320	52 to 64	64	Harmonic / Bandedge	
-		5500-5720	100 to 144	140	Harmonic	
-				100	Bandedge	
-		5745-5825	149 to 165	149	Harmonic / Bandedge	
-	802.11ax HE40	5180-5250	38 to 46	38	Harmonic / Bandedge	NSS1 MCS0
-		5250-5320	54 to 62	62	Harmonic / Bandedge	
-		5500-5720	102 to 142	102	Harmonic	
-				134	Bandedge	
-		5745-5825	151 to 159	151	Harmonic / Bandedge	
-	802.11ax HE80	5180-5250	42	42	Harmonic / Bandedge	NSS1 MCS0
-		5250-5320	58	58	Harmonic / Bandedge	
-		5500-5720	106 to 138	106	Harmonic / Bandedge	
-		5745-5825	155	155	Harmonic / Bandedge	
-	802.11ax HE160	5180-5320	50	50	Harmonic / Bandedge	NSS1 MCS0
-		5500-5720	114	114	Harmonic / Bandedge	

EUT Configure Mode	Mode	Frequency (MHz)	Available Channel	Tested Channel	Note	Date Rate (Mbps)
-	802.11ax HE20 (Partial RU)	5180-5250	36 to 48	48	Harmonic (RU242)	NSS1 MCS0
				36	Bandedge (RU242)	
-		5250-5320	52 to 64	64	Harmonic / Bandedge (RU242)	
-		5500-5720	100 to 144	100	Harmonic / Bandedge (RU106)	
-		5745-5825	149 to 165	149	Harmonic (RU26)	
					Bandedge (RU242)	
-	802.11ax HE40 (Partial RU)	5180-5250	38 to 46	46	Harmonic (RU26)	NSS1 MCS0
				38	Bandedge (RU484)	
-		5250-5320	54 to 62	62	Harmonic (RU242)	
					Bandedge (RU484)	
-		5500-5720	102 to 142	110	Harmonic (RU52)	
				102	Bandedge (RU484)	
-		5745-5825	151 to 159	151	Harmonic (RU52)	
					Bandedge (RU484)	
-	802.11ax HE80 (Partial RU)	5180-5250	42	42	Harmonic / Bandedge (RU996)	NSS1 MCS0
-		5250-5320	58	58	Harmonic / Bandedge (RU996)	
-		5500-5720	106 to 138	106	Harmonic (RU996)	
				122	Bandedge (RU996)	
-		5745-5825	155	155	Harmonic / Bandedge (RU996)	
-	802.11ax HE160 (Partial RU)	5180-5320	50	50	Harmonic / Bandedge (RU1992)	NSS1 MCS0
-		5500-5720	114	114	Harmonic (RU996)	
					Bandedge (RU1992)	

Radiated Spurious Emissions (Below 1 GHz)

☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Frequency (MHz)	Available Channel	Tested Channel	Date Rate (Mbps)
-	802.11ax HE40	5180-5240	38 to 46	38	NSS1 MCS0

Mains Conducted Emission Test

☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Frequency (MHz)	Available Channel	Tested Channel	Date Rate (Mbps)
-	802.11ax HE40	5180-5240	38 to 46	38	NSS1 MCS0

Test Condition

Test Item	Ambient Temperature	Relative Humidity	Tested by
RF Output Power	20.8-25.5 °C	59-66 %	Nick Guan / Andy Chen
Radiated Spurious Emissions above 1 GHz	22.6-24.5 °C	52-54 %	Ray Huang
Radiated Spurious Emissions below 1 GHz	22.6-24.5 °C	52-54 %	Ray Huang
Mains Conducted Emission	19.1-25.9 °C	50.2-58.9 %	Roger Liao

4.4 Special Accessories and Auxiliary Equipment

The product has been tested together with the following additional accessories:

Accessory of EUT

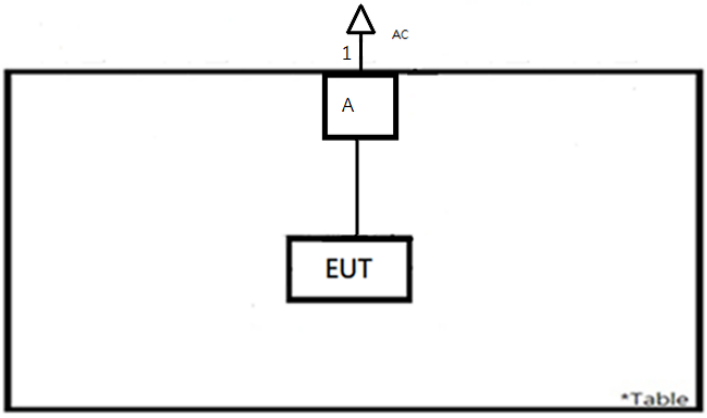
No.	Product	Brand	Model	Description
B	Adapter	FSP	FSP096-AHAN3	I/P: 100-240 Vac, 1.8 A O/P: 12 Vdc, 8 A
-	Battery	medDV	OPM-P05T-C1	7.2 Vdc, 4545 mAh

Support Unit

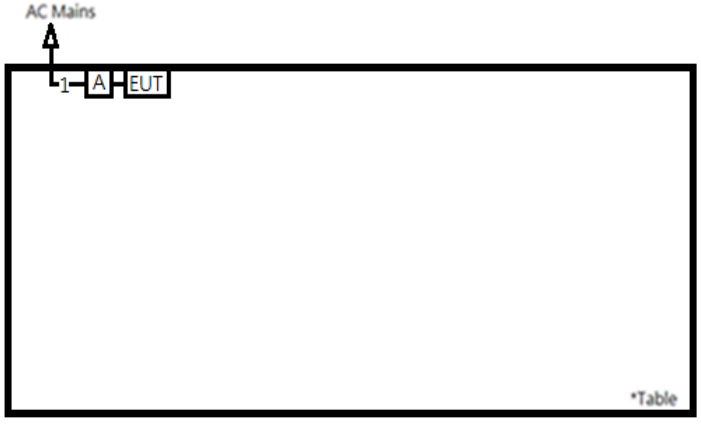
Support Unit								
No	Description	Brand	Model	S/N	Shielded	Ferrite Core (Qty)	Length (cm)	Remark
1	Power cord	Onyx Healthcare	N/A	N/A	NO	NO	180	--

4.5 Test Setup Diagram

<Radiated Spurious Emissions mode>



<Mains Conducted Emission mode>



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

Requirement Use of approved antennas only

According to the manufacturer declaration, the antenna information is as listed below. The antenna is with no possibility of replacement with a non-approved antenna by the end-user. Therefore, the EUT is considered to comply with this provision.

Antenna	Antenna Type	Antenna Gain (dBi)
1	PIFA	2.6
2	PIFA	2.09

Refer to EUT photo for details.

5.1.2 Maximum Conducted Output Power

Limit

Operation Band	EUT Category	Limit
U-NII-1	Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p ≦ 125 mW (21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
	Fixed point-to-point Access Point	1 Watt (30 dBm)
	Indoor Access Point	1 Watt (30 dBm)
	Mobile and Portable client device	250 mW (24 dBm)
U-NII-2A	---	250 mW (24 dBm) or 11 dBm + 10 log B*
U-NII-2C	---	250 mW (24 dBm) or 11 dBm + 10 log B*
U-NII-3	---	1 Watt (30 dBm)

Note: B* is the 26 dB emission bandwidth in megahertz

Per KDB 662911 Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

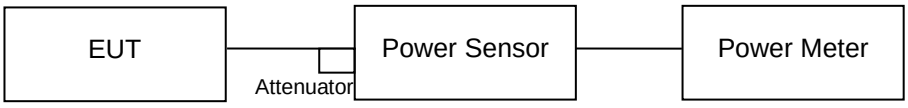
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT};

Array Gain = 5 log(N_{ANT}/N_{SS}) dB or 3 dB, whichever is less for 20 MHz channel widths with $N_{ANT} \geq 5$.

For power measurements on all other devices: Array Gain = 10 log(N_{ANT}/N_{SS}) dB.

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date	Test Date	
						From	Until
Power Meter	Anritsu	ML2495A	1901008	2023/03/17	2024/03/16	2023/10/20	2023/10/20
Power Sensor	Anritsu	MA2411B	1725269	2023/03/17	2024/03/16	2023/10/20	2023/10/20

Test Procedures

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst and set the detector to AVERAGE. Duty factor is not added to measured value.

Test Result

<802.11a>

Channel	Channel Frequency (MHz)	Average Output Power (dBm)		Total Power		Limit (dBm)
		Ant 1	Ant 2	(dBm)	(mW)	
36	5180	16.02	15.72	18.88	77.32	24.00
40	5200	17.67	17.88	20.79	119.86	24.00
44	5220	17.52	17.96	20.76	119.01	24.00
48	5240	17.26	17.31	20.30	107.04	24.00
52	5260	17.55	17.61	20.59	114.56	24.00
56	5280	17.74	17.69	20.73	118.18	24.00
60	5300	17.98	17.85	20.93	123.76	24.00
64	5320	16.31	16.16	19.25	84.06	24.00
100	5500	14.85	15.04	17.96	62.46	24.00
116	5580	18.22	19.11	21.70	147.84	24.00
124	5620	18.12	19.01	21.60	144.48	24.00
132	5660	17.94	18.93	21.47	140.39	24.00
140	5700	14.84	14.77	17.82	60.47	24.00
144	5720 (U-NII-2C)	18.29	18.24	21.28	134.13	24.00
144	5720 (U-NII-3)	18.29	18.24	21.28	134.13	30.00
149	5745	18.23	18.02	21.14	129.91	30.00
157	5785	17.97	18.14	21.07	127.82	30.00
165	5825	17.94	18.04	21.00	125.91	30.00

<802.11n HT20>

Channel	Channel Frequency (MHz)	Average Output Power (dBm)		Total Power		Limit (dBm)
		Ant 1	Ant 2	(dBm)	(mW)	
36	5180	15.52	15.44	18.49	70.64	24.00
40	5200	15.54	15.48	18.52	71.13	24.00
44	5220	15.59	15.51	18.56	71.79	24.00
48	5240	15.72	15.59	18.67	73.55	24.00
52	5260	15.78	15.34	18.58	72.04	24.00
56	5280	16.06	15.42	18.76	75.20	24.00
60	5300	15.90	15.27	18.61	72.56	24.00
64	5320	15.58	15.43	18.52	71.06	24.00
100	5500	14.65	14.84	17.76	59.65	24.00
116	5580	15.02	15.66	18.36	68.58	24.00
124	5620	14.85	16.11	18.54	71.38	24.00
132	5660	14.73	16.02	18.43	69.71	24.00
140	5700	14.38	14.49	17.45	55.53	24.00
144	5720 (U-NII-2C)	15.16	15.30	18.24	66.69	24.00
144	5720 (U-NII-3)	15.16	15.30	18.24	66.69	30.00
149	5745	15.41	15.49	18.46	70.15	30.00
157	5785	15.35	16.03	18.71	74.36	30.00
165	5825	15.18	16.00	18.62	72.77	30.00

<802.11n HT40>

Channel	Channel Frequency (MHz)	Average Output Power (dBm)		Total Power		Limit (dBm)
		Ant 1	Ant 2	(dBm)	(mW)	
38	5190	13.43	13.31	16.38	43.46	24.00
46	5230	15.06	14.87	17.98	62.75	24.00
54	5270	15.39	14.72	18.08	64.24	24.00
62	5310	14.88	14.47	17.69	58.75	24.00
102	5510	13.61	13.85	16.74	47.23	24.00
110	5550	15.22	15.10	18.17	65.63	24.00
126	5630	14.74	15.19	17.98	62.82	24.00
134	5670	15.35	14.69	18.04	63.72	24.00
142	5710 (U-NII-2C)	14.83	15.04	17.95	62.32	24.00
142	5710 (U-NII-3)	14.83	15.04	17.95	62.32	30.00
151	5755	15.12	15.16	18.15	65.32	30.00
159	5795	14.70	15.19	17.96	62.55	30.00

<802.11ac VHT20>

Channel	Channel Frequency (MHz)	Average Output Power (dBm)		Total Power		Limit (dBm)
		Ant 1	Ant 2	(dBm)	(mW)	
36	5180	15.58	15.51	18.56	71.70	24.00
40	5200	15.66	15.54	18.61	72.62	24.00
44	5220	15.65	15.62	18.65	73.20	24.00
48	5240	15.78	15.70	18.75	75.00	24.00
52	5260	15.91	15.42	18.68	73.83	24.00
56	5280	16.13	15.51	18.84	76.58	24.00
60	5300	16.03	15.35	18.71	74.36	24.00
64	5320	15.70	15.55	18.64	73.05	24.00
100	5500	14.71	14.92	17.83	60.63	24.00
116	5580	15.10	15.73	18.44	69.77	24.00
124	5620	14.94	16.16	18.60	72.49	24.00
132	5660	14.82	16.05	18.49	70.61	24.00
140	5700	14.49	14.55	17.53	56.63	24.00
144	5720 (U-NII-2C)	15.29	15.37	18.34	68.24	24.00
144	5720 (U-NII-3)	15.29	15.37	18.34	68.24	30.00
149	5745	15.48	15.55	18.53	71.21	30.00
157	5785	15.42	16.11	18.79	75.67	30.00
165	5825	15.26	16.07	18.69	74.03	30.00

<802.11ac VHT40>

Channel	Channel Frequency (MHz)	Average Output Power (dBm)		Total Power		Limit (dBm)
		Ant 1	Ant 2	(dBm)	(mW)	
38	5190	13.51	13.35	16.44	44.07	24.00
46	5230	15.18	14.94	18.07	64.15	24.00
54	5270	15.45	14.77	18.13	65.07	24.00
62	5310	15.02	14.54	17.80	60.21	24.00
102	5510	13.65	13.91	16.79	47.78	24.00
110	5550	15.27	15.18	18.24	66.61	24.00
126	5630	14.83	15.32	18.09	64.45	24.00
134	5670	15.44	14.81	18.15	65.26	24.00
142	5710 (U-NII-2C)	14.92	15.15	18.05	63.78	24.00
142	5710 (U-NII-3)	14.92	15.15	18.05	63.78	30.00
151	5755	15.20	15.25	18.24	66.61	30.00
159	5795	14.76	15.26	18.03	63.50	30.00

<802.11ac VHT80>

Channel	Channel Frequency (MHz)	Average Output Power (dBm)		Total Power		Limit (dBm)
		Ant 1	Ant 2	(dBm)	(mW)	
42	5210	10.72	11.10	13.92	24.69	24.00
58	5290	12.65	12.23	15.46	35.12	24.00
106	5530	13.14	13.55	16.36	43.25	24.00
122	5610	13.93	14.62	17.30	53.69	24.00
138	5690 (U-NII-2C)	14.60	14.64	17.63	57.95	24.00
138	5690 (U-NII-3)	14.60	14.64	17.63	57.95	30.00
155	5775	14.01	14.79	17.43	55.31	30.00

<802.11ac VHT160>

Channel	Channel Frequency (MHz)	Average Output Power (dBm)		Total Power		Limit (dBm)
		Ant 1	Ant 2	(dBm)	(mW)	
50	5250	11.04	11.13	14.10	25.68	24.00
114	5570	12.03	12.59	15.33	34.11	24.00

<802.11ax HE20>

Channel	Channel Frequency (MHz)	Average Output Power (dBm)		Total Power		Limit (dBm)
		Ant 1	Ant 2	(dBm)	(mW)	
36	5180	15.65	15.57	18.62	72.79	24.00
40	5200	15.78	15.61	18.71	74.24	24.00
44	5220	15.71	15.70	18.72	74.39	24.00
48	5240	15.89	15.80	18.86	76.83	24.00
52	5260	15.95	15.46	18.72	74.51	24.00
56	5280	16.24	15.59	18.94	78.30	24.00
60	5300	16.09	15.41	18.77	75.40	24.00
64	5320	15.75	15.62	18.70	74.06	24.00
100	5500	14.78	14.97	17.89	61.47	24.00
116	5580	15.16	15.81	18.51	70.92	24.00
124	5620	15.02	16.24	18.68	73.84	24.00
132	5660	14.93	16.13	18.58	72.14	24.00
140	5700	14.49	14.55	17.53	56.63	24.00
144	5720 (U-NII-2C)	15.38	15.43	18.42	69.43	24.00
144	5720 (U-NII-3)	15.38	15.43	18.42	69.43	30.00
149	5745	15.55	15.61	18.59	72.28	30.00
157	5785	15.47	16.19	18.86	76.83	30.00
165	5825	15.31	16.14	18.76	75.08	30.00

<802.11ax HE40>

Channel	Channel Frequency (MHz)	Average Output Power (dBm)		Total Power		Limit (dBm)
		Ant 1	Ant 2	(dBm)	(mW)	
38	5190	13.55	13.38	16.48	44.42	24.00
46	5230	15.24	15.02	18.14	65.19	24.00
54	5270	15.54	14.83	18.21	66.22	24.00
62	5310	15.13	14.61	17.89	61.49	24.00
102	5510	13.73	13.99	16.87	48.67	24.00
110	5550	15.33	15.29	18.32	67.93	24.00
126	5630	14.88	15.38	18.15	65.28	24.00
134	5670	15.49	14.86	18.20	66.02	24.00
142	5710 (U-NII-2C)	15.01	15.22	18.13	64.96	24.00
142	5710 (U-NII-3)	15.01	15.22	18.13	64.96	30.00
151	5755	15.33	15.40	18.38	68.79	30.00
159	5795	14.82	15.33	18.09	64.46	30.00

<802.11ax HE80>

Channel	Channel Frequency (MHz)	Average Output Power (dBm)		Total Power		Limit (dBm)
		Ant 1	Ant 2	(dBm)	(mW)	
42	5210	10.84	11.19	14.03	25.29	24.00
58	5290	12.77	12.31	15.56	35.95	24.00
106	5530	13.26	13.67	16.48	44.46	24.00
122	5610	14.07	14.75	17.43	55.38	24.00
138	5690 (U-NII-2C)	14.61	14.65	17.64	58.08	24.00
138	5690 (U-NII-3)	14.61	14.65	17.64	58.08	30.00
155	5775	14.08	14.91	17.53	56.56	30.00

<802.11ax HE160>

Channel	Channel Frequency (MHz)	Average Output Power (dBm)		Total Power		Limit (dBm)
		Ant 1	Ant 2	(dBm)	(mW)	
50	5250	11.17	11.26	14.23	26.46	24.00
114	5570	12.18	12.74	15.48	35.31	24.00

<802.11ax HE20_Partial RU>

Channel	Channel Frequency (MHz)	RU Config.	Average Output Power (dBm)		Total Power		Limit (dBm)
			Ant 1	Ant 2	(dBm)	(mW)	
36	5180	26/0	12.18	12.31	15.26	33.54	24.00
40	5200	26/0	12.30	12.37	15.35	34.24	24.00
44	5220	26/0	12.15	12.36	15.27	33.62	24.00
48	5240	26/8	12.04	12.29	15.18	32.94	24.00
52	5260	26/0	11.52	11.61	14.58	28.68	24.00
56	5280	26/0	11.40	11.24	14.33	27.11	24.00
60	5300	26/8	12.02	11.67	14.86	30.61	24.00
64	5320	26/8	11.64	11.56	14.61	28.91	24.00
100	5500	26/0	11.84	12.09	14.98	31.46	24.00
116	5580	26/0	12.14	12.68	15.43	34.90	24.00
124	5620	26/0	12.03	12.57	15.32	34.03	24.00
132	5660	26/0	11.78	12.71	15.28	33.73	24.00
140	5700	26/8	10.09	10.34	13.23	21.02	24.00
144	5720 (U-NII-2C)	26/0	9.80	9.67	12.75	18.82	24.00
144	5720 (U-NII-3)	26/8	9.82	9.77	12.81	19.08	30.00
149	5745	26/0	13.97	13.88	16.94	49.38	30.00
157	5785	26/8	13.66	14.83	17.29	53.64	30.00
165	5825	26/8	13.62	14.91	17.32	53.99	30.00
36	5180	52/37	14.21	14.33	17.28	53.47	24.00
40	5200	52/37	14.27	14.41	17.35	54.34	24.00
44	5220	52/37	14.12	14.35	17.25	53.05	24.00
48	5240	52/40	14.09	14.32	17.22	52.68	24.00
52	5260	52/37	14.27	14.43	17.36	54.46	24.00
56	5280	52/37	14.36	14.28	17.33	54.08	24.00
60	5300	52/40	14.46	14.22	17.35	54.35	24.00
64	5320	52/40	14.06	14.04	17.06	50.82	24.00
100	5500	52/37	10.31	10.66	13.50	22.38	24.00
116	5580	52/37	12.58	13.22	15.92	39.10	24.00
124	5620	52/37	12.49	13.01	15.77	37.74	24.00
132	5660	52/37	12.26	13.24	15.79	37.91	24.00
140	5700	52/40	10.55	10.87	13.72	23.57	24.00
144	5720 (U-NII-2C)	52/37	12.31	12.19	15.26	33.58	24.00
144	5720 (U-NII-3)	52/40	12.33	12.28	15.32	34.00	30.00
149	5745	52/37	13.92	13.84	16.89	48.87	30.00
157	5785	52/40	13.61	14.88	17.30	53.72	30.00
165	5825	52/40	13.54	14.95	17.31	53.86	30.00

<802.11ax HE20_Partial RU>

Channel	Channel Frequency (MHz)	RU Config.	Average Output Power (dBm)		Total Power		Limit (dBm)
			Ant 1	Ant 2	(dBm)	(mW)	
36	5180	106/53	14.01	14.34	17.19	52.34	24.00
40	5200	106/53	14.13	14.44	17.30	53.68	24.00
44	5220	106/53	13.98	14.16	17.08	51.06	24.00
48	5240	106/54	13.68	14.57	17.16	51.98	24.00
52	5260	106/53	13.97	14.21	17.10	51.31	24.00
56	5280	106/53	13.85	14.14	17.01	50.21	24.00
60	5300	106/54	14.24	14.43	17.35	54.28	24.00
64	5320	106/54	12.89	13.21	16.06	40.39	24.00
100	5500	106/53	9.64	10.88	13.31	21.45	24.00
116	5580	106/53	13.94	14.77	17.39	54.77	24.00
124	5620	106/53	13.46	14.39	16.96	49.66	24.00
132	5660	106/53	14.30	14.52	17.42	55.23	24.00
140	5700	106/54	10.25	11.49	13.92	24.69	24.00
144	5720 (U-NII-2C)	106/53	13.97	14.58	17.30	53.65	24.00
144	5720 (U-NII-3)	106/54	13.53	14.45	17.02	50.40	30.00
149	5745	106/53	14.16	14.62	17.41	55.03	30.00
157	5785	106/54	14.08	14.23	17.17	52.07	30.00
165	5825	106/54	13.05	14.91	17.09	51.16	30.00
36	5180	242/61	12.97	13.08	16.04	40.14	24.00
40	5200	242/61	13.98	14.07	17.04	50.53	24.00
44	5220	242/61	13.95	14.36	17.17	52.12	24.00
48	5240	242/61	14.15	14.32	17.25	53.04	24.00
52	5260	242/61	13.97	14.11	17.05	50.71	24.00
56	5280	242/61	14.12	14.53	17.34	54.20	24.00
60	5300	242/61	14.20	14.62	17.43	55.28	24.00
64	5320	242/61	12.28	12.43	15.37	34.40	24.00
100	5500	242/61	10.14	10.52	13.34	21.60	24.00
116	5580	242/61	14.13	14.59	17.38	54.66	24.00
124	5620	242/61	14.06	14.80	17.46	55.67	24.00
132	5660	242/61	13.66	14.69	17.22	52.67	24.00
140	5700	242/61	9.13	9.84	12.51	17.82	24.00
144	5720 (U-NII-2C)	242/61	13.99	14.41	17.22	52.67	24.00
144	5720 (U-NII-3)	242/61	13.99	14.41	17.22	52.67	30.00
149	5745	242/61	14.02	14.21	17.13	51.60	30.00
157	5785	242/61	13.87	14.82	17.38	54.72	30.00
165	5825	242/61	13.02	14.81	17.02	50.31	30.00

<802.11ax HE40_Partial RU>

Channel	Channel Frequency (MHz)	RU Config.	Average Output Power (dBm)		Total Power		Limit (dBm)
			Ant 1	Ant 2	(dBm)	(mW)	
38	5190	26/9	11.76	12.69	15.26	33.57	24.00
46	5230	26/17	10.68	13.65	15.42	34.87	24.00
54	5270	26/9	12.35	13.13	15.77	37.74	24.00
62	5310	26/17	10.68	11.79	14.28	26.80	24.00
102	5510	26/9	9.15	9.34	12.26	16.81	24.00
110	5550	26/17	9.51	11.42	13.58	22.80	24.00
126	5630	26/17	10.35	10.94	13.67	23.26	24.00
134	5670	26/9	9.96	11.77	13.97	24.94	24.00
142	5710 (U-NII-2C)	26/17	9.63	10.98	13.37	21.71	24.00
142	5710 (U-NII-3)	26/17	9.63	10.98	13.37	21.71	30.00
151	5755	26/9	13.87	14.72	17.33	54.03	30.00
159	5795	26/17	11.29	13.24	15.38	34.54	30.00
38	5190	52/41	11.74	12.79	15.31	33.94	24.00
46	5230	52/44	12.34	15.16	16.99	49.95	24.00
54	5270	52/41	13.74	14.62	17.21	52.63	24.00
62	5310	52/44	11.34	11.62	14.49	28.14	24.00
102	5510	52/41	9.11	9.48	12.31	17.02	24.00
110	5550	52/44	12.61	14.18	16.48	44.42	24.00
126	5630	52/44	12.83	13.76	16.33	42.96	24.00
134	5670	52/41	11.55	13.47	15.63	36.52	24.00
142	5710 (U-NII-2C)	52/44	12.72	14.61	16.78	47.61	24.00
142	5710 (U-NII-3)	52/44	12.72	14.61	16.78	47.61	30.00
151	5755	52/41	14.12	14.29	17.22	52.68	30.00
159	5795	52/44	14.03	14.28	17.17	52.08	30.00
38	5190	106/55	12.51	12.65	15.59	36.23	24.00
46	5230	106/56	12.56	14.83	16.85	48.44	24.00
54	5270	106/55	13.94	14.62	17.30	53.75	24.00
62	5310	106/56	10.69	11.46	14.10	25.72	24.00
102	5510	106/55	8.98	9.08	12.04	16.00	24.00
110	5550	106/56	13.51	15.17	17.43	55.32	24.00
126	5630	106/56	13.89	14.80	17.38	54.69	24.00
134	5670	106/55	10.31	10.64	13.49	22.33	24.00
142	5710 (U-NII-2C)	106/56	13.64	14.51	17.11	51.37	24.00
142	5710 (U-NII-3)	106/56	13.64	14.51	17.11	51.37	30.00
151	5755	106/55	13.92	14.46	17.21	52.59	30.00
159	5795	106/56	13.53	14.65	17.14	51.72	30.00

<802.11ax HE40_Partial RU>

Channel	Channel Frequency (MHz)	RU Config.	Average Output Power (dBm)		Total Power		Limit (dBm)
			Ant 1	Ant 2	(dBm)	(mW)	
38	5190	242/61	12.69	13.12	15.92	39.09	24.00
46	5230	242/62	13.29	14.95	17.21	52.59	24.00
54	5270	242/61	14.17	14.42	17.31	53.79	24.00
62	5310	242/62	11.04	11.43	14.25	26.61	24.00
102	5510	242/61	8.68	9.03	11.87	15.38	24.00
110	5550	242/62	14.08	15.12	17.64	58.09	24.00
126	5630	242/62	14.19	14.81	17.52	56.51	24.00
134	5670	242/62	9.27	10.33	12.84	19.24	24.00
142	5710 (U-NII-2C)	242/62	13.67	14.82	17.29	53.62	24.00
142	5710 (U-NII-3)	242/62	13.67	14.82	17.29	53.62	30.00
151	5755	242/61	14.28	14.37	17.34	54.14	30.00
159	5795	242/62	13.56	14.13	16.86	48.58	30.00
38	5190	484/65	9.13	9.31	12.23	16.72	24.00
46	5230	484/65	14.05	14.37	17.22	52.76	24.00
54	5270	484/65	13.82	14.64	17.26	53.21	24.00
62	5310	484/65	10.45	10.77	13.62	23.03	24.00
102	5510	484/65	9.21	9.83	12.54	17.95	24.00
110	5550	484/65	12.96	13.23	16.11	40.81	24.00
126	5630	484/65	12.82	12.91	15.88	38.69	24.00
134	5670	484/65	10.32	10.86	13.61	22.95	24.00
142	5710 (U-NII-2C)	484/65	13.97	14.51	17.26	53.19	24.00
142	5710 (U-NII-3)	484/65	13.97	14.51	17.26	53.19	30.00
151	5755	484/65	14.20	14.39	17.31	53.78	30.00
159	5795	484/65	13.71	14.54	17.16	51.94	30.00

<802.11ax HE80_Partial RU>

Channel	Channel Frequency (MHz)	RU Config.	Average Output Power (dBm)		Total Power		Limit (dBm)
			Ant 1	Ant 2	(dBm)	(mW)	
42	5210	996/67	7.86	8.09	10.99	12.55	24.00
58	5290	996/67	9.61	9.84	12.74	18.78	24.00
106	5530	996/67	8.57	9.12	11.86	15.36	24.00
122	5610	996/67	10.15	10.80	13.50	22.37	24.00
138	5690 (U-NII-2C)	996/67	10.61	11.02	13.83	24.16	24.00
138	5690 (U-NII-3)	996/67	10.61	11.02	13.83	24.16	30.00
155	5775	996/67	13.94	14.65	17.32	53.95	30.00

<802.11ax HE160_Partial RU>

Channel	Channel Frequency (MHz)	RU Config.	Average Output Power (dBm)		Total Power		Limit (dBm)
			Ant 1	Ant 2	(dBm)	(mW)	
50	5250	1992/68	10.47	10.71	13.60	22.92	24.00
114	5570	1992/68	11.68	12.41	15.07	32.14	24.00

5.1.3 Transmit Power Control (TPC)

Requirement

U-NII devices operating in the 5.25-5.35 GHz band and the 5.47-5.725 GHz band shall emply a TPC mechanism. The U-NII device is required to have capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an e.i.r.p of less than 500 mW.

Maximum EIRP of this device is 269.15mW which is less than 500mW, therefor, TPC function is not required.

TPC	E.I.R.P	15.407(h)(1)
	> 500mW	The TPC mechanism is required for system with an E.I.R.P. of above 500mW
V	< 500mW	-

5.1.4 Radiated Spurious Emissions

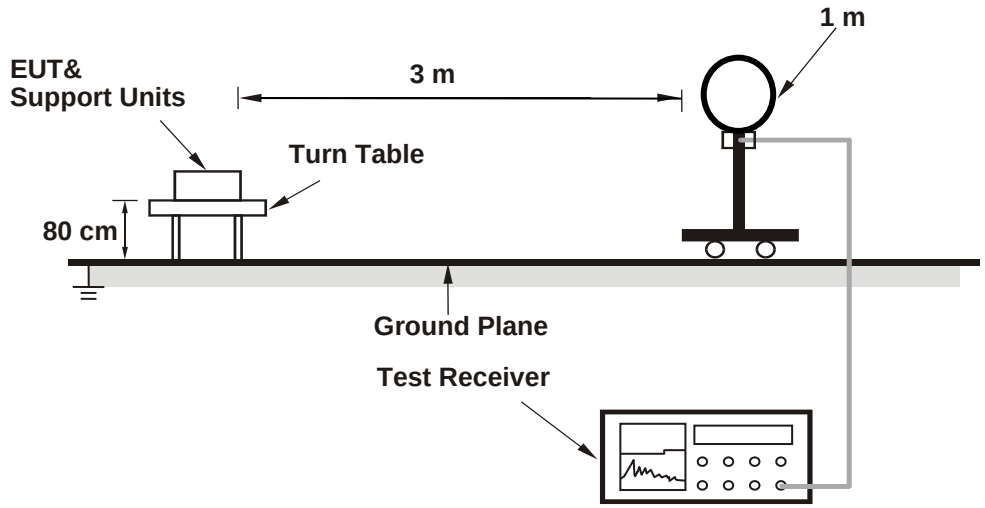
Limit

Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must comply with the radiated emission limits specified in §15.209(a).
Emissions radiated outside the restricted and authorized frequency bands must either comply with the radiated emission limits specified for the restricted bands or in §15.407(b).

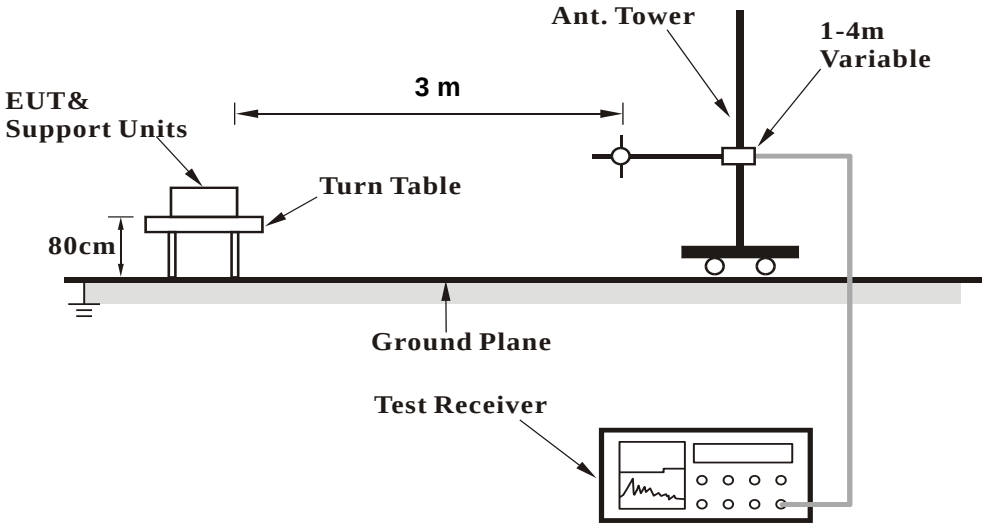
Kind of Test Site 3m Semi-Anechoic Chamber

Test Setup

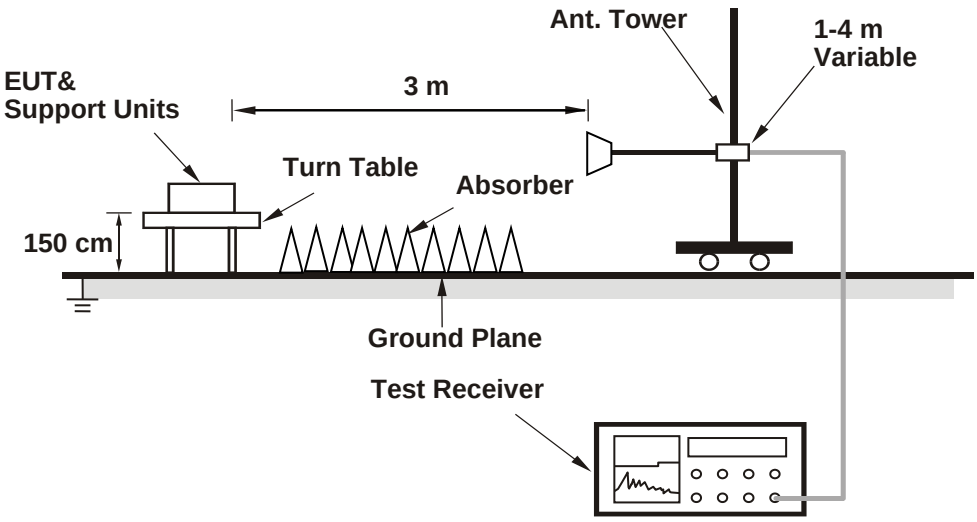
<Radiated Emissions below 30 MHz>



<Radiated Emissions 30 MHz to 1 GHz>



<Radiated Emissions above 1 GHz>



For the actual test configuration, please refer to the attached file (Test Setup Photo).

Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Above 1 GHz					
Signal Analyzer	R&S	FSV40	101509	2023/4/26	2024/4/24
Horn Antenna	ETS-Lindgren	3117	00218929	2022/11/17	2023/11/16
Horn Antenna	SCHWARZBECK	BBHA 9170	00890	2023/5/4	2024/5/2
HF-AMP + AC source	EMCI	EMC051845SE	980635	2023/2/16	2024/2/15
HF-AMP + AC source	EMCI	EMC051845SE	980656	2023/1/16	2024/1/15
Test Software	Audix E3	15914a_20191106 tuv	PK-001087	N/A	N/A
30 MHz ~ 1 GHz					
Receiver	R&S	ESR7	102109	2023/2/24	2024/2/23
Bilog Antenna	SCHWARZBECK	VULB-9168	00951	2023/3/31	2024/3/29
LF-AMP	Agilent	8447D	2944A107722	2023/3/22	2024/3/20
Test Software	Audix E3	15914a_20191106 tuv	PK-001087	N/A	N/A
Below 30 MHz					
Receiver	R&S	ESR7	102109	2023/2/24	2024/2/23
Loop Antenna	SCHWARZBECK	FMZB 1519B	00215	2023/1/4	2024/1/3
Test Software	Audix E3	15914a_20191106 tuv	PK-001087	N/A	N/A

Test Procedures

For Radiated Emissions below 30 MHz

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
c. Parallel (OPEN), perpendicular (CLOSE), and ground-parallel (GROUND) orientations of the antenna are set to make the measurement.
d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz at frequency below 30 MHz.
2. All modes of operation were investigated and the worst-case emissions are reported.

For Radiated Emissions above 30 MHz

a. The EUT was placed on the top of a rotating table 0.8 meters (for 30 MHz ~ 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
f. The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) or Peak detection (PK) at frequency below 1 GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98 %) or 10 Hz (Duty cycle ≥ 98 %) for Average detection (AV) at frequency above 1 GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.
5. The Radiated Emissions testing was performed in the X(E1), Y(H) and Z(E2) axis orientation. The worst-case Axis orientation is recorded in this test report.
6. The emission levels of other frequencies (including the 10th harmonic of the highest fundamental frequency) are very lower than the limit and are not shown in the test report.

Test Results

Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)
Level (dBuV/m) = Reading (dBuV) + Factor (dB/m)

Please refer to Appendix A.

5.2 Mains Emission

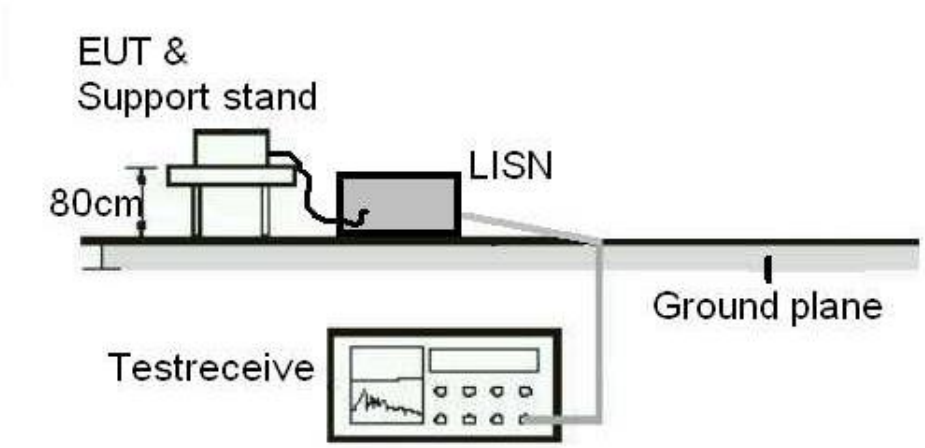
5.2.1 Mains Conducted Emission

Limit

Mains Conducted emissions as defined in §15.207 must comply with the mains conducted emission limits.

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Two-Line V-Network	Rohde & Schwarz	ENV216	101938	2023/10/23	2024/10/21
EMI Test Receiver	R&S	ESCI	101094	2022/11/24	2023/11/23

Test Procedures

a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/50 uH of coupling impedance for the measuring instrument.
b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz – 30 MHz.

Test Results

Please refer to Appendix A.

Appendix A: Test Results of Radiation Spurious Emissions & Mains

Conducted Emission

Band Edges, 4.5GHz ~ 5.15GHz

U-NII-1

802.11a	
CH 36 (Horizontal) Peak	**CH 36 (Vertical) Peak**

TUV Rheinland Taiwan Ltd.
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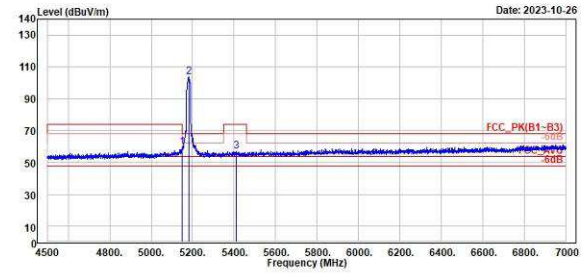
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5149.50	59.37	16.08	43.29	74.00	-14.63	200	215	Peak	Horizontal	
2 *	5180.00	103.82	60.44	43.38	68.20	35.62	200	215	Peak	Horizontal	
3	5410.50	57.12	13.29	43.83	74.00	-16.88	200	215	Peak	Horizontal	

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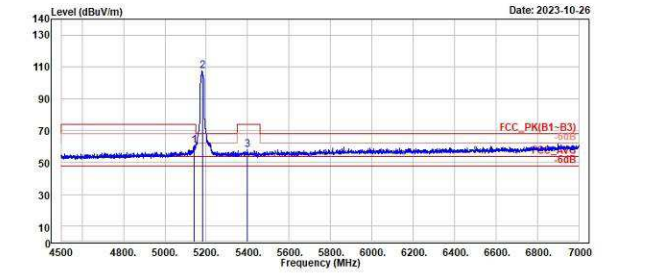
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5142.00	60.72	17.45	43.27	74.00	-13.28	224	156	Peak	Vertical	
2 *	5180.00	107.63	64.25	43.38	68.20	39.43	224	156	Peak	Vertical	
3	5398.50	57.82	13.94	43.88	74.00	-16.18	224	156	Peak	Vertical	

802.11a

CH 36 (Horizontal) Average

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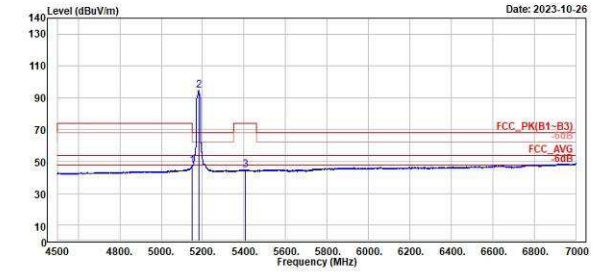
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5150.00	47.37	4.08	43.29	54.00	-6.63	200	215	Average	Horizontal	
2 *	5180.00	94.50	51.12	43.38	54.00	40.50	200	215	Average	Horizontal	
3	5406.00	44.92	1.07	43.85	54.00	-9.08	200	215	Average	Horizontal	

CH 36 (Vertical) Average

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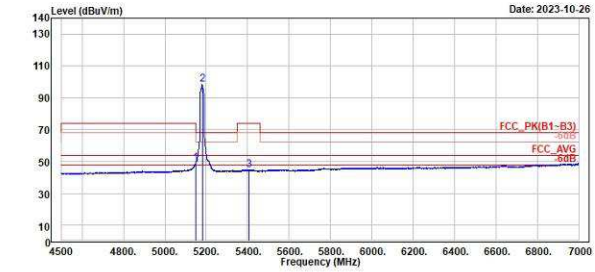
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 !	5150.00	49.08	5.79	43.29	54.00	-4.92	224	156	Average	Vertical	
2 *	5180.00	98.38	55.00	43.38	54.00	44.38	224	156	Average	Vertical	
3	5405.50	44.75	0.89	43.86	54.00	-9.25	224	156	Average	Vertical	

802.11ax HE20

CH 36 (Horizontal) Peak

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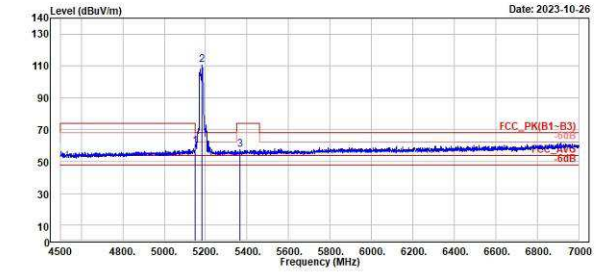
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5149.00	59.51	16.22	43.29	74.00	-14.49	301	146	Peak	Horizontal	
2 *	5180.00	110.79	67.41	43.38	68.20	42.59	301	146	Peak	Horizontal	
3	5366.00	57.32	13.86	43.46	74.00	-16.68	301	146	Peak	Horizontal	

CH 36 (Vertical) Peak

TUV Rheinland Taiwan Ltd.
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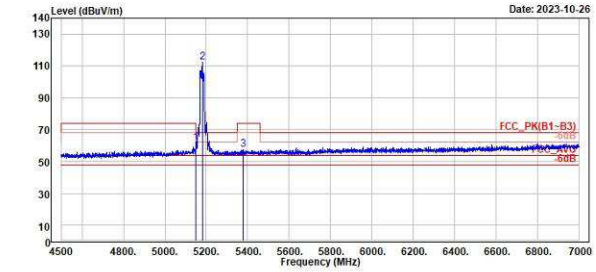
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5150.00	61.79	18.50	43.29	68.20	-6.41	230	139	Peak	Vertical	
2 *	5180.00	112.12	68.74	43.38	68.20	43.92	230	139	Peak	Vertical	
3	5376.50	57.60	14.00	43.60	74.00	-16.40	230	139	Peak	Vertical	

802.11ax HE20

CH 36 (Horizontal) Average

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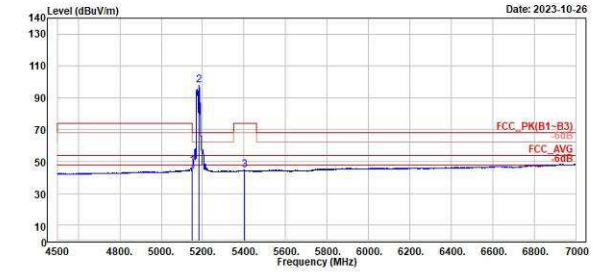
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5150.00	47.42	4.13	43.29	54.00	-6.58	301	146	Average	Horizontal	
2 *	5180.00	98.08	54.70	43.38	54.00	44.08	301	146	Average	Horizontal	
3	5404.00	44.62	0.75	43.87	54.00	-9.38	301	146	Average	Horizontal	

CH 36 (Vertical) Average

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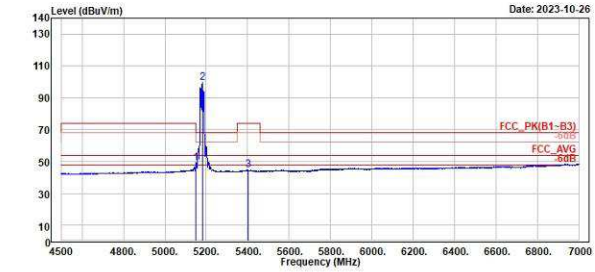
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322

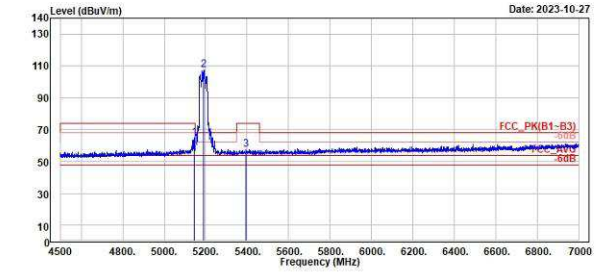


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 !	5150.00	49.22	5.93	43.29	54.00	-4.78	230	139	Average	Vertical	
2 *	5180.00	99.80	56.42	43.38	54.00	45.80	230	139	Average	Vertical	
3	5404.50	44.65	0.79	43.86	54.00	-9.35	230	139	Average	Vertical	

802.11ax HE40

CH 38 (Horizontal) Peak

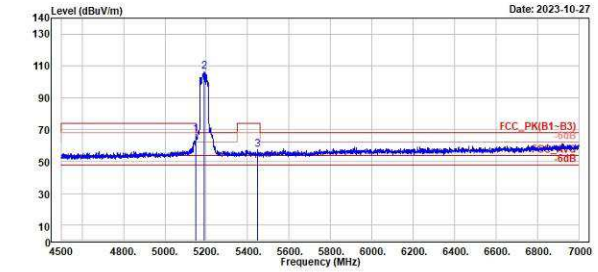
TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5144.00	64.82	21.54	43.28	74.00	-9.18	333	140	Peak	Horizontal	
2 *	5190.00	107.32	63.91	43.41	68.20	39.12	333	140	Peak	Horizontal	
3	5392.50	57.39	13.59	43.80	74.00	-16.61	333	140	Peak	Horizontal	

CH 38 (Vertical) Peak

TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322

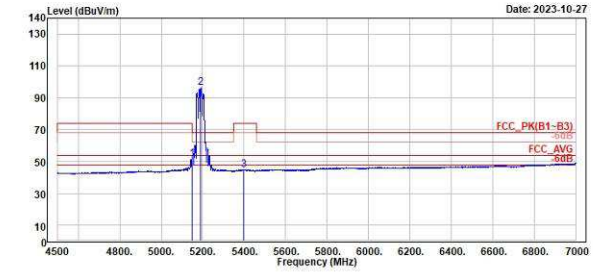


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 !	5150.00	66.90	23.61	43.29	68.20	-1.30	260	149	Peak	Vertical	
2 *	5190.00	106.69	63.28	43.41	68.20	38.49	260	149	Peak	Vertical	
3	5449.00	57.29	13.74	43.55	74.00	-16.71	260	149	Peak	Vertical	

802.11ax HE40

CH 38 (Horizontal) Average

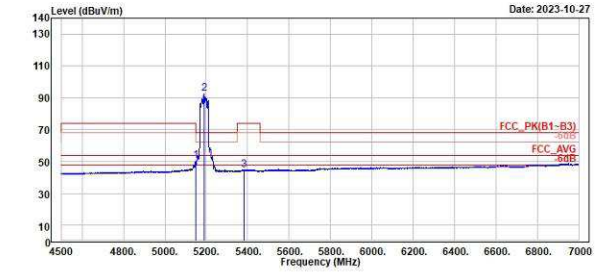
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 !	5150.00	51.41	8.12	43.29	54.00	-2.59	333	140	Average	Horizontal	
2 *	5190.00	96.36	52.95	43.41	54.00	42.36	333	140	Average	Horizontal	
3	5398.50	44.89	1.01	43.88	54.00	-9.11	333	140	Average	Horizontal	

CH 38 (Vertical) Average

TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322

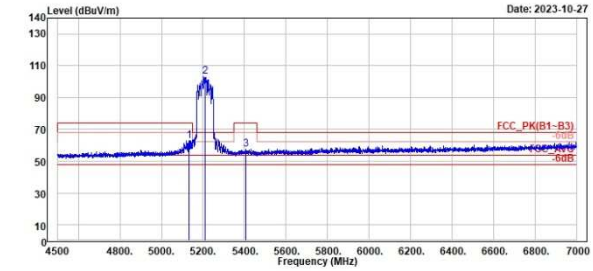


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 !	5149.00	50.46	7.17	43.29	54.00	-3.54	260	149	Average	Vertical	
2 *	5190.00	92.64	49.23	43.41	54.00	38.64	260	149	Average	Vertical	
3	5381.50	44.87	1.21	43.66	54.00	-9.13	260	149	Average	Vertical	

802.11ax HE80

CH 42 (Horizontal) Peak

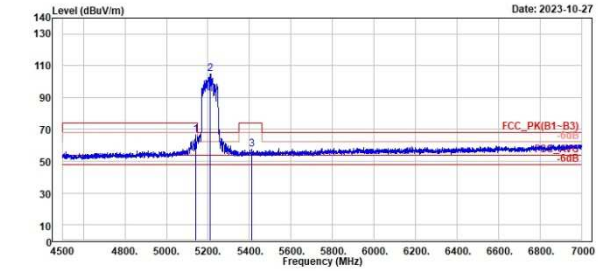
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5132.00	62.76	19.52	43.24	74.00	-11.24	349	147	Peak	Horizontal	
2 *	5210.00	103.06	59.68	43.38	68.20	34.86	349	147	Peak	Horizontal	
3	5405.50	57.62	13.76	43.86	74.00	-16.38	349	147	Peak	Horizontal	

CH 42 (Vertical) Peak

TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322

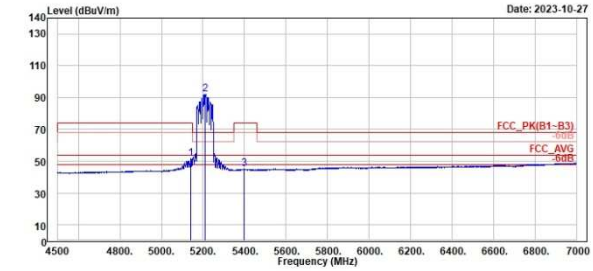


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5141.50	66.53	23.26	43.27	74.00	-7.47	244	146	Peak	Vertical	
2 *	5210.00	105.07	61.69	43.38	68.20	36.87	244	146	Peak	Vertical	
3	5409.50	57.46	13.63	43.83	74.00	-16.54	244	146	Peak	Vertical	

802.11ax HE80

CH 42 (Horizontal) Average

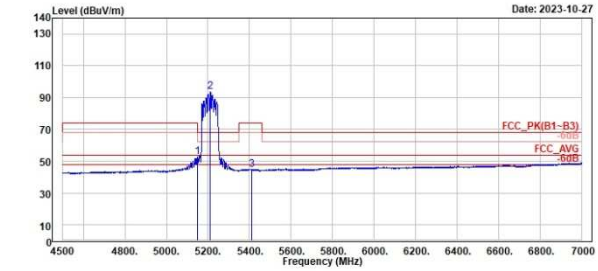
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 !	5142.00	51.45	8.18	43.27	54.00	-2.55	349	147	Average	Horizontal	
2 *	5210.00	92.10	48.72	43.38	54.00	38.10	349	147	Average	Horizontal	
3	5399.00	45.01	1.12	43.89	54.00	-8.99	349	147	Average	Horizontal	

CH 42 (Vertical) Average

TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322

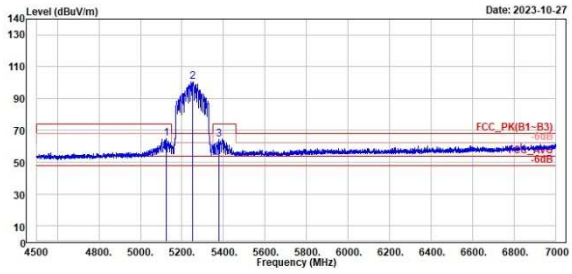


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 !	5148.50	52.55	9.26	43.29	54.00	-1.45	244	146	Average	Vertical	
2 *	5210.00	93.48	50.10	43.38	54.00	39.48	244	146	Average	Vertical	
3	5412.50	44.98	1.17	43.81	54.00	-9.02	244	146	Average	Vertical	

802.11ax HE160

CH 50 (Horizontal) Peak

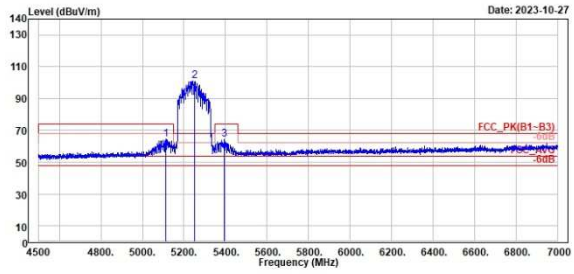
TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5123.50	64.85	21.63	43.22	74.00	-9.15	343	148	Peak	Horizontal	
2 *	5250.00	100.83	57.66	43.17	68.20	32.63	343	148	Peak	Horizontal	
3	5377.00	64.50	20.90	43.60	74.00	-9.50	343	148	Peak	Horizontal	

CH 50 (Vertical) Peak

TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322

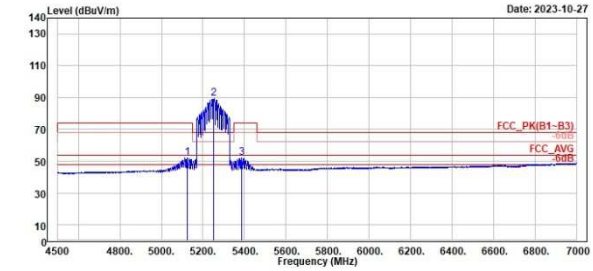


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5110.50	64.49	21.31	43.18	74.00	-9.51	242	147	Peak	Vertical	
2 *	5250.00	101.33	58.16	43.17	68.20	33.13	242	147	Peak	Vertical	
3	5396.00	64.29	20.45	43.84	74.00	-9.71	242	147	Peak	Vertical	

802.11ax HE160

CH 50 (Horizontal) Average

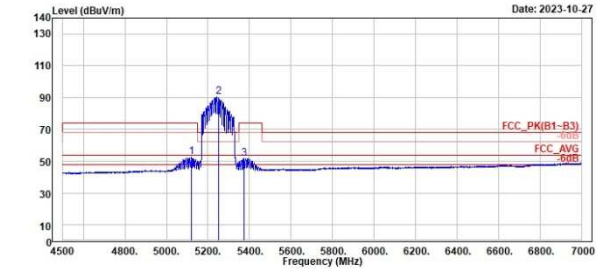
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 !	5123.50	52.15	8.93	43.22	54.00	-1.85	343	148	Average	Horizontal	
2 *	5250.00	89.46	46.29	43.17	54.00	35.46	343	148	Average	Horizontal	
3 !	5387.00	51.93	8.20	43.73	54.00	-2.07	343	148	Average	Horizontal	

CH 50 (Vertical) Average

TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 !	5120.50	52.44	9.23	43.21	54.00	-1.56	242	147	Average	Vertical	
2 *	5250.00	90.53	47.36	43.17	54.00	36.53	242	147	Average	Vertical	
3 !	5372.50	51.73	8.18	43.55	54.00	-2.27	242	147	Average	Vertical	

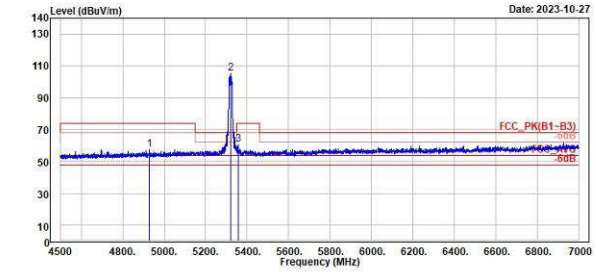
Band Edges, 5.35GHz

U-NII-2A

802.11a

CH 64 (Horizontal) Peak

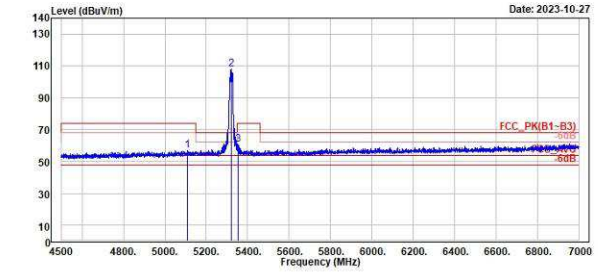
TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4929.00	57.34	14.31	43.03	74.00	-16.66	366	249	Peak	Horizontal	
2 *	5320.00	105.55	62.02	43.53	68.20	37.35	366	249	Peak	Horizontal	
3	5357.00	60.60	17.26	43.34	74.00	-13.40	366	249	Peak	Horizontal	

CH 64 (Vertical) Peak

TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322

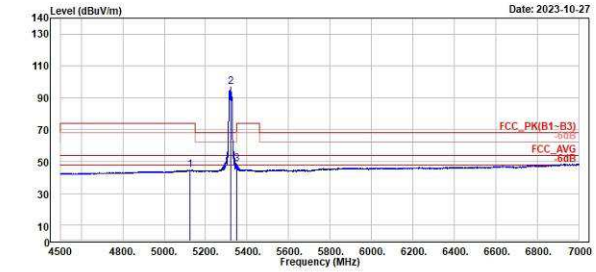


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5107.50	57.02	13.85	43.17	74.00	-16.98	260	153	Peak	Vertical	
2 *	5320.00	108.20	64.67	43.53	68.20	40.00	260	153	Peak	Vertical	
3	5352.00	60.76	17.48	43.28	74.00	-13.24	260	153	Peak	Vertical	

802.11a

CH 64 (Horizontal) Average

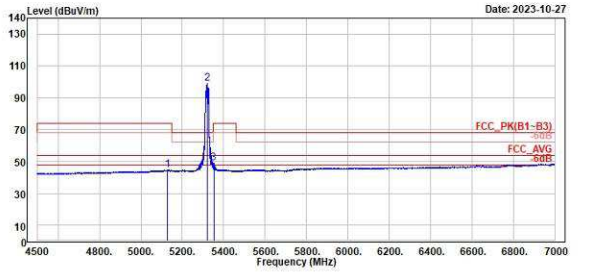
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5126.50	44.57	1.35	43.22	54.00	-9.43	366	249	Average	Horizontal	
2 *	5320.00	96.80	53.27	43.53	54.00	42.80	366	249	Average	Horizontal	
3 !	5350.50	48.28	5.01	43.27	54.00	-5.72	366	249	Average	Horizontal	

CH 64 (Vertical) Average

TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322

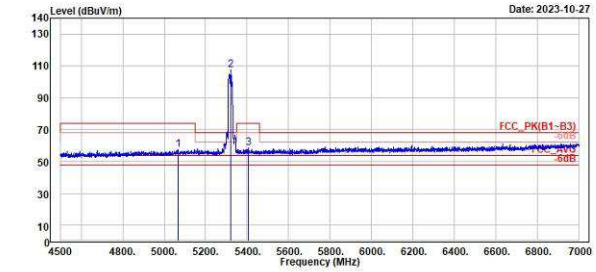


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5129.00	44.68	1.44	43.24	54.00	-9.32	260	153	Average	Vertical	
2 *	5320.00	98.91	55.38	43.53	54.00	44.91	260	153	Average	Vertical	
3 !	5351.50	48.98	5.70	43.28	54.00	-5.02	260	153	Average	Vertical	

802.11ax HE20

CH 64 (Horizontal) Peak

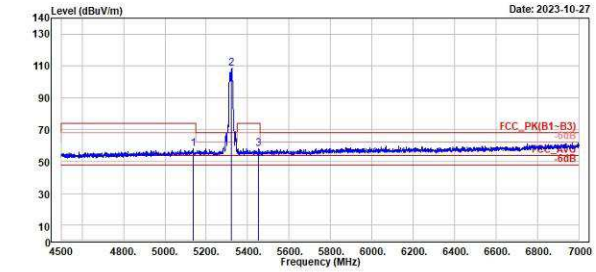
TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5065.50	57.39	14.13	43.26	74.00	-16.61	368	250	Peak	Horizontal	
2 *	5320.00	107.69	64.16	43.53	68.20	39.49	368	250	Peak	Horizontal	
3	5406.50	58.52	14.67	43.85	74.00	-15.48	368	250	Peak	Horizontal	

CH 64 (Vertical) Peak

TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322

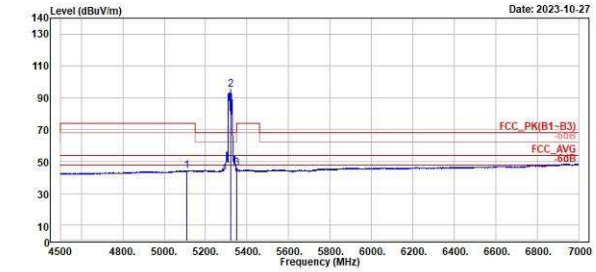


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5136.00	58.14	14.89	43.25	74.00	-15.86	262	151	Peak	Vertical	
2 *	5320.00	108.46	64.93	43.53	68.20	40.26	262	151	Peak	Vertical	
3	5450.50	58.14	14.60	43.54	74.00	-15.86	262	151	Peak	Vertical	

802.11ax HE20

CH 64 (Horizontal) Average

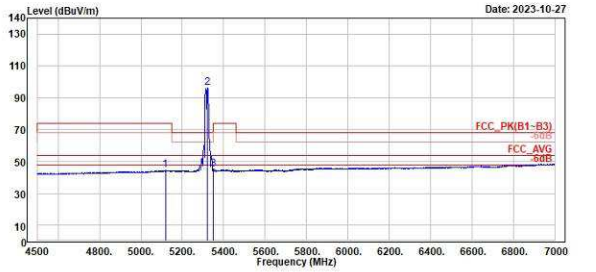
TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5108.00	44.41	1.23	43.18	54.00	-9.59	368	250	Average	Horizontal	
2 *	5320.00	95.29	51.76	43.53	54.00	41.29	368	250	Average	Horizontal	
3	5350.00	45.64	2.38	43.26	54.00	-8.36	368	250	Average	Horizontal	

CH 64 (Vertical) Average

TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322

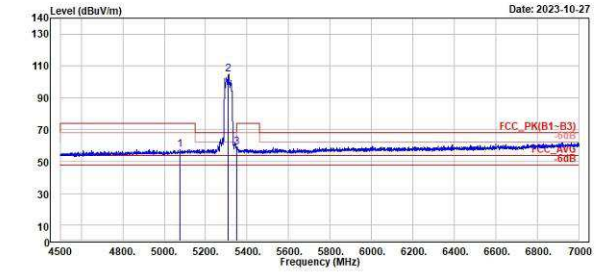


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5118.50	44.51	1.30	43.21	54.00	-9.49	262	151	Average	Vertical	
2 *	5320.00	96.14	52.61	43.53	54.00	42.14	262	151	Average	Vertical	
3	5351.00	45.19	1.92	43.27	54.00	-8.81	262	151	Average	Vertical	

802.11ax HE40

CH 62 (Horizontal) Peak

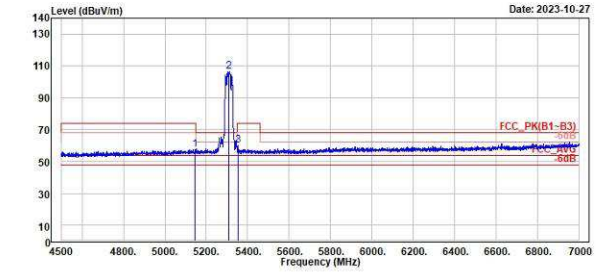
TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5076.00	57.47	14.24	43.23	74.00	-16.53	371	249	Peak	Horizontal	
2 *	5310.00	104.97	61.35	43.62	68.20	36.77	371	249	Peak	Horizontal	
3	5351.00	59.00	15.73	43.27	74.00	-15.00	371	249	Peak	Horizontal	

CH 62 (Vertical) Peak

TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5144.50	57.44	14.16	43.28	74.00	-16.56	263	151	Peak	Vertical	
2 *	5310.00	106.56	62.94	43.62	68.20	38.36	263	151	Peak	Vertical	
3	5354.00	60.03	16.72	43.31	74.00	-13.97	263	151	Peak	Vertical	

802.11ax HE40

CH 62 (Horizontal) Average

TUV Rheinland Taiwan Ltd.
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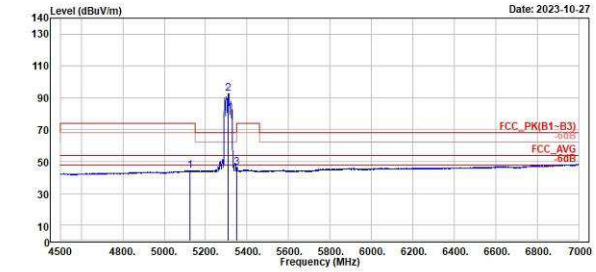

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5124.00	44.35	1.13	43.22	54.00	-9.65	371	249	Average	Horizontal	
2 *	5310.00	92.62	49.00	43.62	54.00	38.62	371	249	Average	Horizontal	
3	5350.50	46.29	3.02	43.27	54.00	-7.71	371	249	Average	Horizontal	

CH 62 (Vertical) Average

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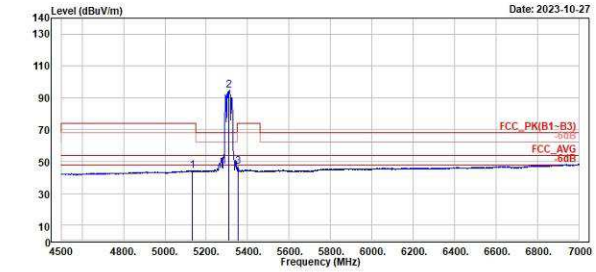
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5131.50	44.23	0.99	43.24	54.00	-9.77	263	151	Average	Vertical	
2 *	5310.00	94.62	51.00	43.62	54.00	40.62	263	151	Average	Vertical	
3	5352.50	46.85	3.56	43.29	54.00	-7.15	263	151	Average	Vertical	

802.11ax HE80	
CH 58 (Horizontal) Peak	**CH 58 (Vertical) Peak**

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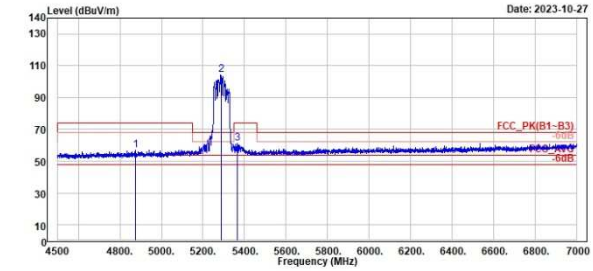
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4876.00	57.06	14.15	42.91	74.00	-16.94	360	147	Peak	Horizontal	
2 *	5290.00	104.41	60.80	43.61	68.20	36.21	360	147	Peak	Horizontal	
3	5367.00	61.17	17.70	43.47	74.00	-12.83	360	147	Peak	Horizontal	

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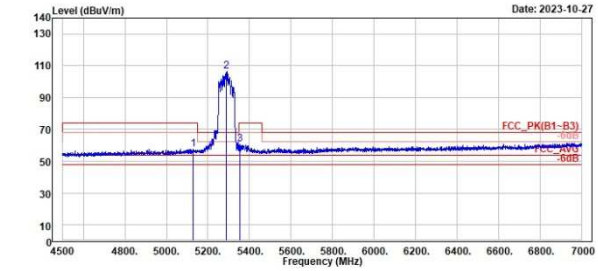

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5128.00	57.50	14.27	43.23	74.00	-16.50	253	146	Peak	Vertical	
2 *	5290.00	106.70	63.09	43.61	68.20	38.50	253	146	Peak	Vertical	
3	5352.00	60.94	17.66	43.28	74.00	-13.06	253	146	Peak	Vertical	

802.11ax HE80	
CH 58 (Horizontal) Average	**CH 58 (Vertical) Average**

TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
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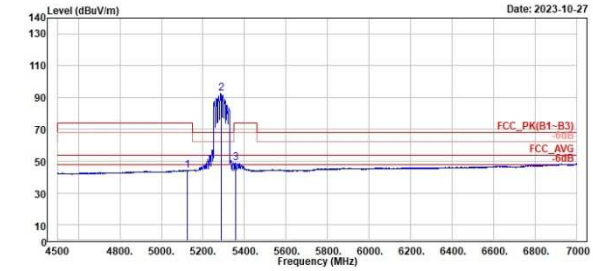

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5125.00	44.38	1.16	43.22	54.00	-9.62	360	147	Average	Horizontal	
2 *	5290.00	92.49	48.88	43.61	54.00	38.49	360	147	Average	Horizontal	
3 !	5356.00	48.99	5.66	43.33	54.00	-5.01	360	147	Average	Horizontal	

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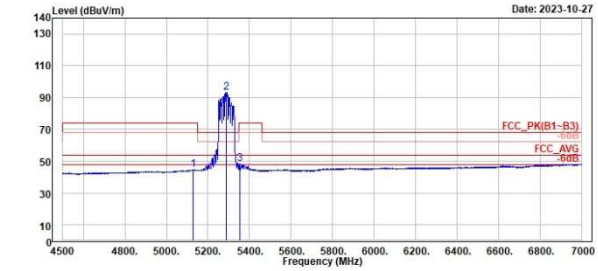


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5128.00	44.55	1.32	43.23	54.00	-9.45	253	146	Average	Vertical	
2 *	5290.00	93.07	49.46	43.61	54.00	39.07	253	146	Average	Vertical	
3 !	5352.50	48.24	4.95	43.29	54.00	-5.76	253	146	Average	Vertical	

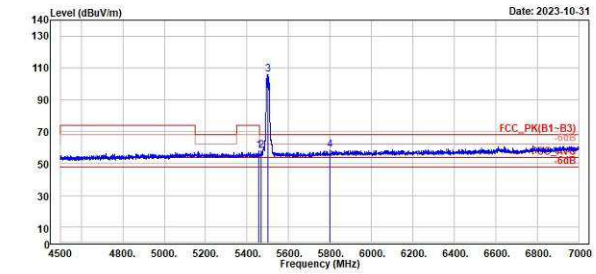
Band Edges, 5.3GHz ~ 5.47GHz, 5.725GHz

U-NII-2C

802.11a

CH 100 (Horizontal) Peak

TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5454.50	58.09	14.54	43.55	74.00	-15.91	277	169	Peak	Horizontal	
2	5469.00	57.90	14.31	43.59	68.20	-10.30	277	169	Peak	Horizontal	
3 *	5500.00	106.03	62.35	43.68	68.20	37.83	277	169	Peak	Horizontal	
4	5800.00	58.54	14.41	44.13	68.20	-9.66	277	169	Peak	Horizontal	

CH 100 (Vertical) Peak

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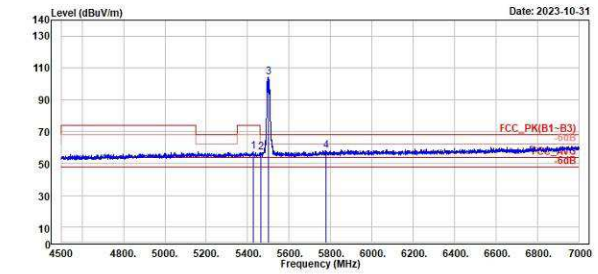
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5426.50	57.53	13.82	43.71	74.00	-16.47	100	171	Peak	Vertical	
2	5462.00	56.86	13.29	43.57	68.20	-11.34	100	171	Peak	Vertical	
3 *	5500.00	104.15	60.47	43.68	68.20	35.95	100	171	Peak	Vertical	
4	5777.50	58.13	14.02	44.11	68.20	-10.07	100	171	Peak	Vertical	

802.11a

CH 100 (Horizontal) Average

TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
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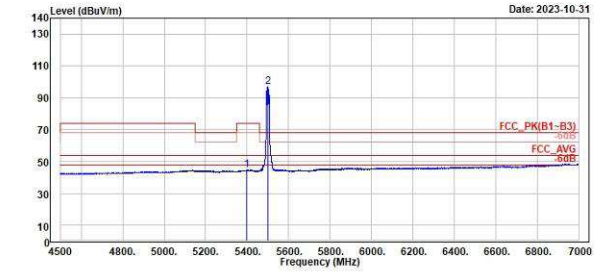
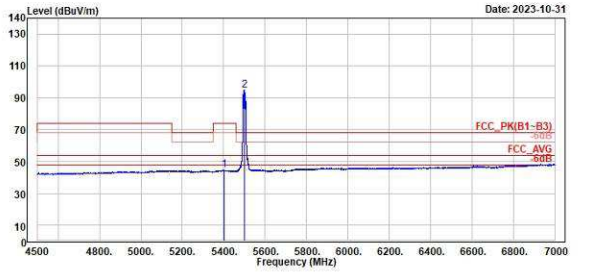


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5399.50	44.84	0.95	43.89	54.00	-9.16	277	169	Average	Horizontal	
2 *	5500.00	97.00	53.32	43.68	54.00	43.00	277	169	Average	Horizontal	

CH 100 (Vertical) Average

TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5401.00	44.58	0.69	43.89	54.00	-9.42	100	171	Average	Vertical	
2 *	5500.00	94.97	51.29	43.68	54.00	40.97	100	171	Average	Vertical	

802.11ax HE20

CH 100 (Horizontal) Peak

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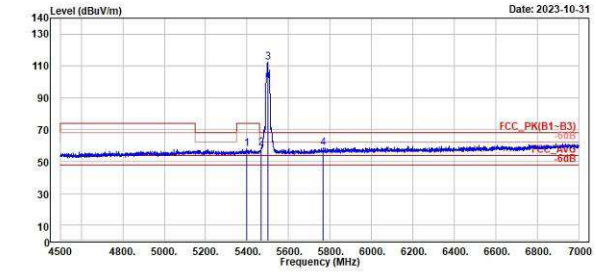
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5399.00	57.86	13.97	43.89	74.00	-16.14	359	141	Peak	Horizontal	
2	5469.50	58.62	15.03	43.59	68.20	-9.58	359	141	Peak	Horizontal	
3 *	5500.00	112.09	68.41	43.68	68.20	43.89	359	141	Peak	Horizontal	
4	5765.50	58.63	14.53	44.10	68.20	-9.57	359	141	Peak	Horizontal	

CH 100 (Vertical) Peak

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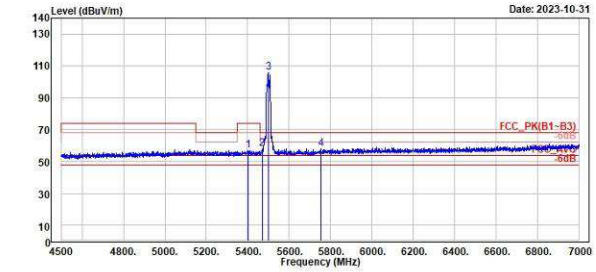
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5402.00	56.74	12.86	43.88	74.00	-17.26	100	170	Peak	Vertical	
2	5470.00	57.99	14.39	43.60	68.20	-10.21	100	170	Peak	Vertical	
3 *	5500.00	105.67	61.99	43.68	68.20	37.47	100	170	Peak	Vertical	
4	5754.00	57.83	13.74	44.09	68.20	-10.37	100	170	Peak	Vertical	

802.11ax HE20

CH 100 (Horizontal) Average

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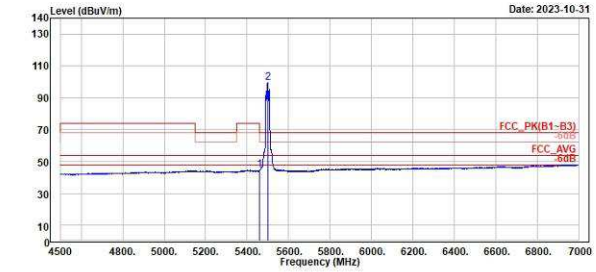
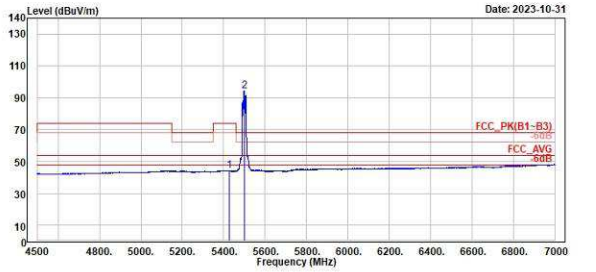


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5460.00	44.70	1.13	43.57	54.00	-9.30	359	141	Average	Horizontal	
2 *	5500.00	99.38	55.70	43.68	54.00	45.38	359	141	Average	Horizontal	

CH 100 (Vertical) Average

TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322

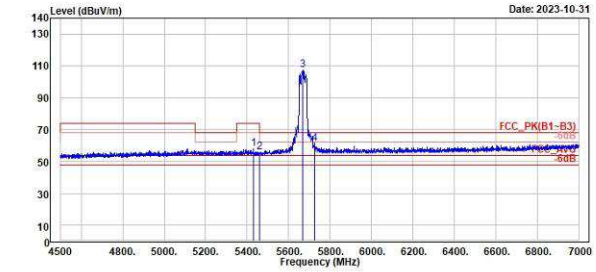


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5428.00	44.43	0.73	43.70	54.00	-9.57	100	170	Average	Vertical	
2 *	5500.00	94.25	50.57	43.68	54.00	40.25	100	170	Average	Vertical	

802.11ax HE40

CH 134 (Horizontal) Peak

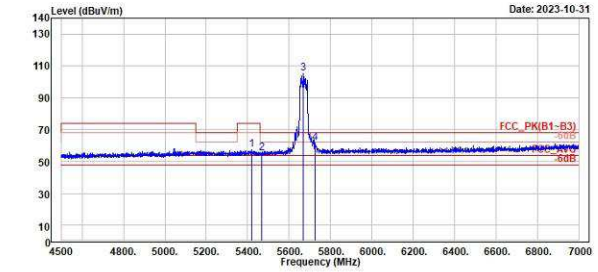
TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5431.00	58.26	14.59	43.67	74.00	-15.74	214	231	Peak	Horizontal	
2	5461.50	55.82	12.25	43.57	68.20	-12.38	214	231	Peak	Horizontal	
3 *	5670.00	107.61	63.97	43.64	68.20	39.41	214	231	Peak	Horizontal	
4	5725.00	61.23	17.42	43.81	68.20	-6.97	214	231	Peak	Horizontal	

CH 134 (Vertical) Peak

TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5418.00	57.41	13.64	43.77	74.00	-16.59	108	173	Peak	Vertical	
2	5467.50	55.57	11.99	43.58	68.20	-12.63	108	173	Peak	Vertical	
3 *	5670.00	105.37	61.73	43.64	68.20	37.17	108	173	Peak	Vertical	
4	5727.50	61.55	17.70	43.85	68.20	-6.65	108	173	Peak	Vertical	

802.11ax HE40

CH 134 (Horizontal) Average

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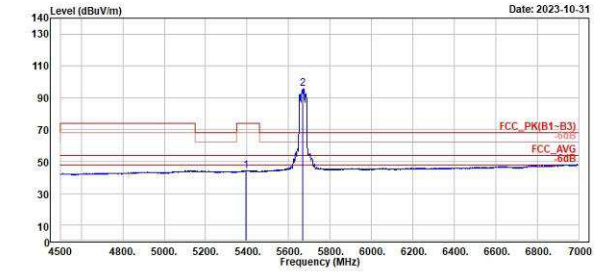

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5394.50	44.43	0.61	43.82	54.00	-9.57	214	231	Average	Horizontal	
2 *	5670.00	95.79	52.15	43.64	54.00	41.79	214	231	Average	Horizontal	

CH 134 (Vertical) Average

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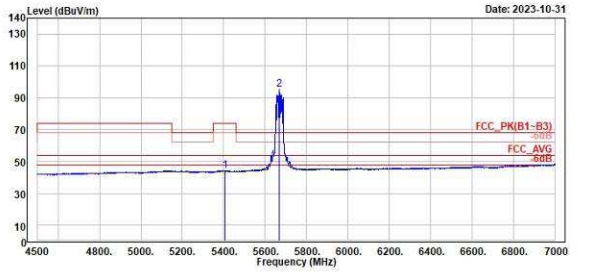

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5406.00	44.44	0.59	43.85	54.00	-9.56	108	173	Average	Vertical	
2 *	5670.00	95.11	51.47	43.64	54.00	41.11	108	173	Average	Vertical	

802.11ax HE80

CH 106 (Horizontal) Peak

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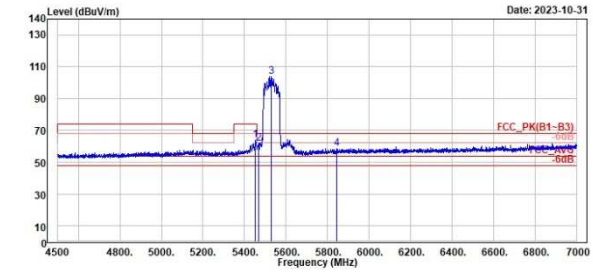
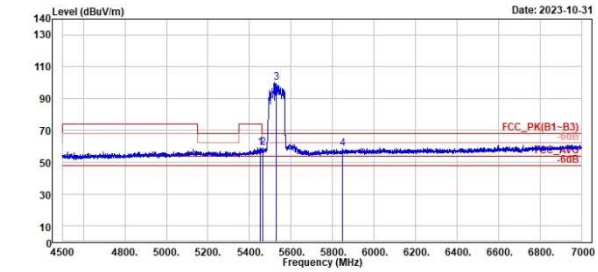
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5452.50	64.00	20.46	43.54	74.00	-10.00	372	145	Peak	Horizontal	
2	5466.50	61.56	17.98	43.58	68.20	-6.64	372	145	Peak	Horizontal	
3 *	5530.00	103.93	60.29	43.64	68.20	35.73	372	145	Peak	Horizontal	
4	5844.00	58.60	14.53	44.07	68.20	-9.60	372	145	Peak	Horizontal	

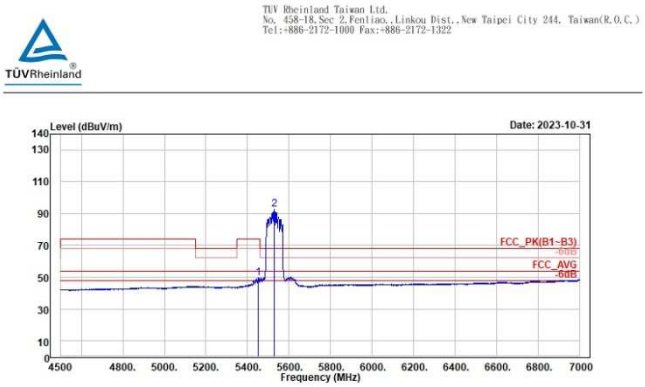
CH 106 (Vertical) Peak

TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322

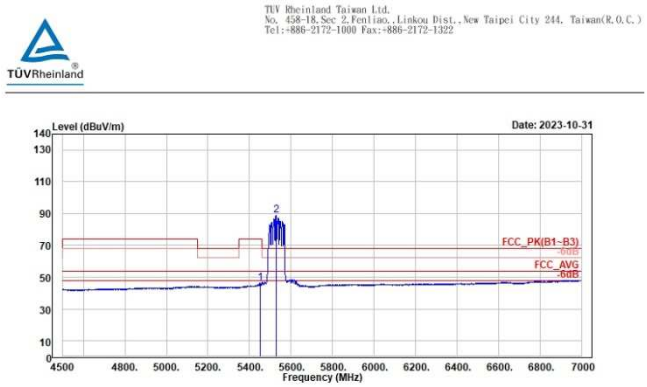


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5453.50	59.16	15.61	43.55	74.00	-14.84	100	173	Peak	Vertical	
2	5462.50	59.15	15.58	43.57	68.20	-9.05	100	173	Peak	Vertical	
3 *	5530.00	99.95	56.31	43.64	68.20	31.75	100	173	Peak	Vertical	
4	5850.00	58.32	14.25	44.07	68.20	-9.88	100	173	Peak	Vertical	

802.11ax HE80	
CH 106 (Horizontal) Average	**CH 106 (Vertical) Average**



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 !	5453.00	49.51	5.96	43.55	54.00	-4.49	372	145	Average	Horizontal	
2 *	5530.00	92.70	49.06	43.64	54.00	38.70	372	145	Average	Horizontal	



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5451.50	46.53	2.99	43.54	54.00	-7.47	100	173	Average	Vertical	
2 *	5530.00	89.11	45.47	43.64	54.00	35.11	100	173	Average	Vertical	

802.11ax HE160

CH 114 (Horizontal) Peak

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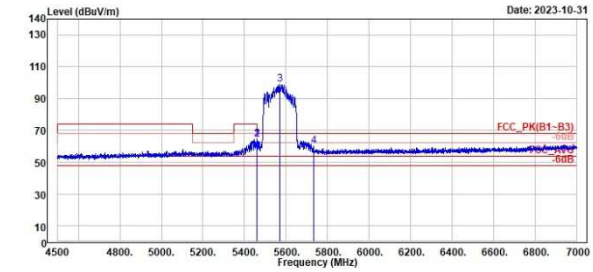
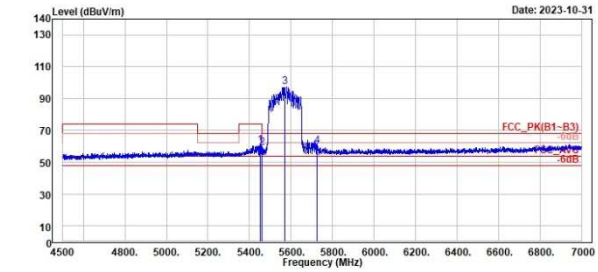


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 !	5460.00	64.46	20.89	43.57	68.20	-3.74	364	143	Peak	Horizontal	
2 !	5460.00	64.46	20.89	43.57	68.20	-3.74	364	143	Peak	Horizontal	
3 *	5570.00	98.88	55.24	43.64	68.20	30.68	364	143	Peak	Horizontal	
4	5734.00	59.99	16.08	43.91	68.20	-8.21	364	143	Peak	Horizontal	

CH 114 (Vertical) Peak

TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5450.00	60.83	17.29	43.54	74.00	-13.17	100	174	Peak	Vertical	
2	5461.00	59.32	15.75	43.57	68.20	-8.88	100	174	Peak	Vertical	
3 *	5570.00	97.22	53.58	43.64	68.20	29.02	100	174	Peak	Vertical	
4	5725.50	60.26	16.44	43.82	68.20	-7.94	100	174	Peak	Vertical	

802.11ax HE160	
CH 114 (Horizontal) Average	**CH 114 (Vertical) Average**

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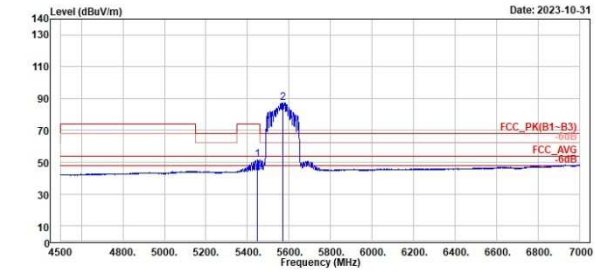
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 !	5449.00	51.76	8.21	43.55	54.00	-2.24	364	143	Average	Horizontal	
2 *	5570.00	87.45	43.81	43.64	54.00	33.45	364	143	Average	Horizontal	

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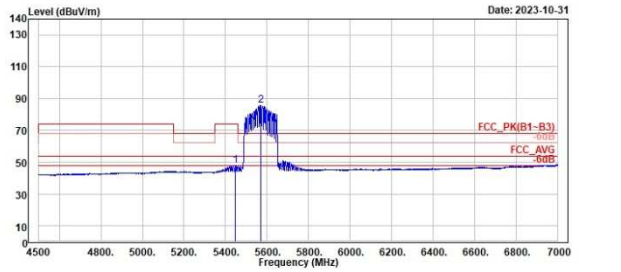
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5449.50	47.97	4.43	43.54	54.00	-6.03	100	174	Average	Vertical	
2 *	5570.00	85.79	42.15	43.64	54.00	31.79	100	174	Average	Vertical	

Mask, 5.725GHz ~ 5.85GHz

U-NII-3

802.11a

CH 149 (Horizontal) Peak

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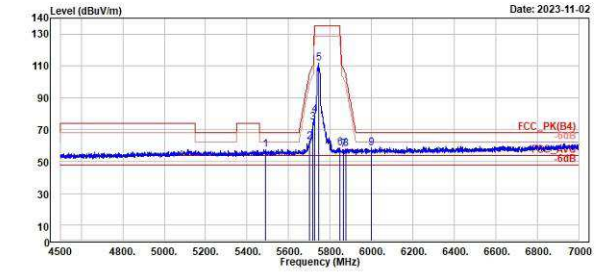
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5488.00	57.61	13.96	43.65	68.20	-10.59	320	156	Peak	Horizontal	
2	5699.50	62.02	18.48	43.54	104.83	-42.81	320	156	Peak	Horizontal	
3	5718.50	74.76	31.01	43.75	110.38	-35.62	320	156	Peak	Horizontal	
4	5725.00	79.41	35.60	43.81	135.00	-55.59	320	156	Peak	Horizontal	
5	5745.00	111.83	67.80	44.03	135.00	-23.17	320	156	Peak	Horizontal	
6	5850.00	58.54	14.47	44.07	135.00	-76.46	320	156	Peak	Horizontal	
7	5864.50	57.68	13.48	44.20	108.14	-50.46	320	156	Peak	Horizontal	
8	5875.50	58.28	13.99	44.29	104.83	-46.55	320	156	Peak	Horizontal	
9	6000.00	58.52	14.13	44.39	68.20	-9.68	320	156	Peak	Horizontal	

CH 149 (Vertical) Peak

TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
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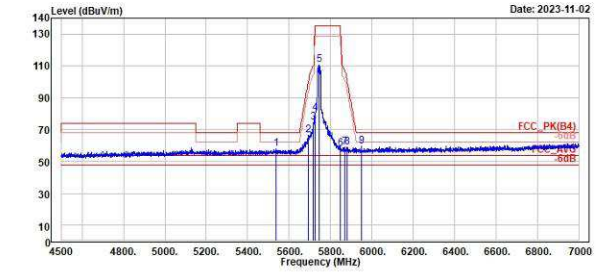

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5536.00	57.87	14.23	43.64	68.20	-10.33	100	140	Peak	Vertical	
2	5694.00	66.39	22.83	43.56	100.78	-34.39	100	140	Peak	Vertical	
3	5719.00	74.77	31.02	43.75	110.52	-35.75	100	140	Peak	Vertical	
4	5724.50	80.34	36.53	43.81	132.58	-52.24	100	140	Peak	Vertical	
5	5745.00	110.83	66.80	44.03	135.00	-24.17	100	140	Peak	Vertical	
6	5850.00	58.29	14.22	44.07	135.00	-76.71	100	140	Peak	Vertical	
7	5867.00	59.07	14.85	44.22	107.44	-48.37	100	140	Peak	Vertical	
8	5879.00	59.01	14.69	44.32	102.23	-43.22	100	140	Peak	Vertical	
9	5950.00	59.49	15.04	44.45	68.20	-8.71	100	140	Peak	Vertical	

802.11ax HE20

CH 149 (Horizontal) Peak

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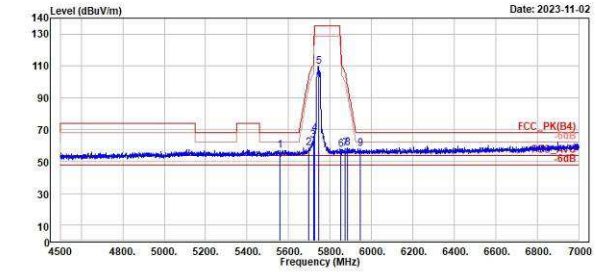
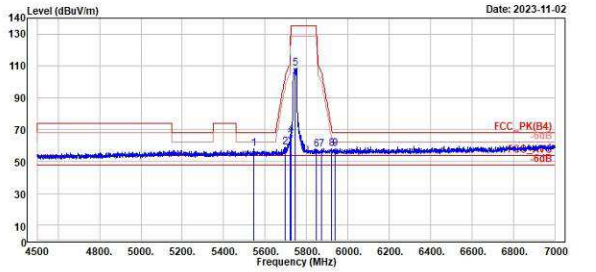


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5556.50	57.02	13.39	43.63	68.20	-11.18	219	157	Peak	Horizontal	
2	5697.50	58.47	14.92	43.55	103.36	-44.89	219	157	Peak	Horizontal	
3	5719.50	63.12	19.36	43.76	110.66	-47.54	219	157	Peak	Horizontal	
4	5724.50	67.41	23.60	43.81	132.58	-65.17	219	157	Peak	Horizontal	
5	5745.00	109.51	65.48	44.03	135.00	-25.49	219	157	Peak	Horizontal	
6	5853.50	57.34	13.24	44.10	118.06	-60.72	219	157	Peak	Horizontal	
7	5872.50	58.03	13.76	44.27	105.90	-47.87	219	157	Peak	Horizontal	
8	5886.50	58.38	13.99	44.39	96.66	-38.28	219	157	Peak	Horizontal	
9	5945.00	57.83	13.38	44.45	68.20	-10.37	219	157	Peak	Horizontal	

CH 149 (Vertical) Peak

TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322

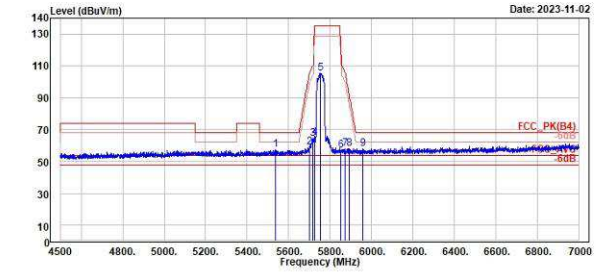


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5544.50	57.94	14.31	43.63	68.20	-10.26	100	136	Peak	Vertical	
2	5695.00	59.07	15.51	43.56	101.51	-42.44	100	136	Peak	Vertical	
3	5720.00	62.79	19.03	43.76	110.80	-48.01	100	136	Peak	Vertical	
4	5725.00	67.10	23.29	43.81	135.00	-67.90	100	136	Peak	Vertical	
5	5745.00	108.75	64.72	44.03	135.00	-26.25	100	136	Peak	Vertical	
6	5850.00	57.40	13.33	44.07	135.00	-77.60	100	136	Peak	Vertical	
7	5874.00	57.59	13.31	44.28	105.48	-47.89	100	136	Peak	Vertical	
8	5920.00	57.91	13.43	44.48	71.89	-13.98	100	136	Peak	Vertical	
9	5940.00	57.89	13.43	44.46	68.20	-10.31	100	136	Peak	Vertical	

802.11ax HE40

CH 151 (Horizontal) Peak

TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5539.00	57.26	13.63	43.63	68.20	-10.94	229	158	Peak	Horizontal	
2	5700.00	59.27	15.73	43.54	105.20	-45.93	229	158	Peak	Horizontal	
3	5717.50	64.43	20.69	43.74	110.10	-45.67	229	158	Peak	Horizontal	
4	5725.00	65.00	21.19	43.81	135.00	-70.00	229	158	Peak	Horizontal	
5	5755.00	105.46	61.37	44.09	135.00	-29.54	229	158	Peak	Horizontal	
6	5852.00	56.83	12.74	44.09	125.32	-68.49	229	158	Peak	Horizontal	
7	5872.50	58.07	13.80	44.27	105.90	-47.83	229	158	Peak	Horizontal	
8	5894.50	58.08	13.62	44.46	90.73	-32.65	229	158	Peak	Horizontal	
9	5959.50	58.28	13.84	44.44	68.20	-9.92	229	158	Peak	Horizontal	

CH 151 (Vertical) Peak

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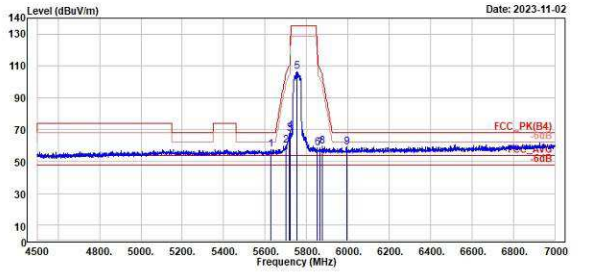
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5628.00	57.69	14.01	43.68	68.20	-10.51	100	136	Peak	Vertical	
2	5700.00	60.21	16.67	43.54	105.20	-44.99	100	136	Peak	Vertical	
3	5717.00	67.47	23.74	43.73	109.96	-42.49	100	136	Peak	Vertical	
4	5722.50	69.16	25.38	43.78	122.90	-53.74	100	136	Peak	Vertical	
5	5755.00	106.52	62.43	44.09	135.00	-28.48	100	136	Peak	Vertical	
6	5851.50	58.62	14.54	44.08	127.74	-69.12	100	136	Peak	Vertical	
7	5865.50	58.41	14.21	44.20	107.86	-49.45	100	136	Peak	Vertical	
8	5878.00	59.65	15.34	44.31	102.97	-43.32	100	136	Peak	Vertical	
9	5993.50	59.06	14.67	44.39	68.20	-9.14	100	136	Peak	Vertical	

802.11ax HE80

CH 155 (Horizontal) Peak

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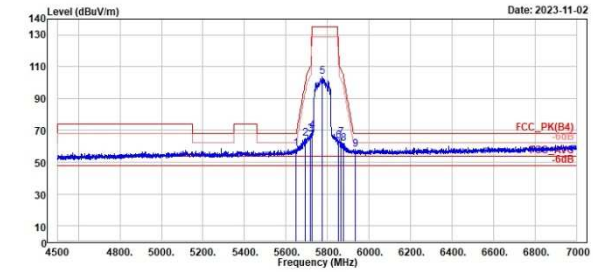
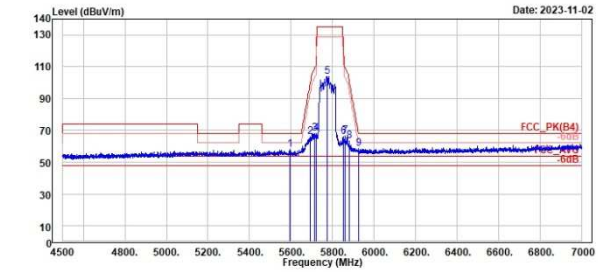
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5648.00	58.60	14.90	43.70	68.20	-9.60	278	159	Peak	Horizontal	
2	5691.00	64.94	21.36	43.58	98.56	-33.62	278	159	Peak	Horizontal	
3	5718.50	67.87	24.12	43.75	110.38	-42.51	278	159	Peak	Horizontal	
4	5724.00	69.55	25.75	43.80	130.16	-60.61	278	159	Peak	Horizontal	
5	5775.00	103.60	59.49	44.11	135.00	-31.40	278	159	Peak	Horizontal	
6	5852.00	63.18	19.09	44.09	125.32	-62.14	278	159	Peak	Horizontal	
7	5865.50	65.48	21.28	44.20	107.86	-42.38	278	159	Peak	Horizontal	
8	5878.50	61.80	17.48	44.32	102.60	-40.80	278	159	Peak	Horizontal	
9	5934.50	58.01	13.54	44.47	68.20	-10.19	278	159	Peak	Horizontal	

CH 155 (Vertical) Peak

TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5593.00	57.98	14.32	43.66	68.20	-10.22	100	149	Peak	Vertical	
2	5694.00	66.27	22.71	43.56	100.78	-34.51	100	149	Peak	Vertical	
3	5712.00	68.13	24.46	43.67	108.56	-40.43	100	149	Peak	Vertical	
4	5722.50	68.33	24.55	43.78	122.90	-54.57	100	149	Peak	Vertical	
5	5775.00	103.93	59.82	44.11	135.00	-31.07	100	149	Peak	Vertical	
6	5850.50	66.04	21.97	44.07	132.58	-66.54	100	149	Peak	Vertical	
7	5860.00	66.64	22.48	44.16	109.40	-42.76	100	149	Peak	Vertical	
8	5880.00	63.22	18.89	44.33	101.49	-38.27	100	149	Peak	Vertical	
9	5925.50	58.72	14.24	44.48	68.20	-9.48	100	149	Peak	Vertical	

Spurious Emissions, Tx Mode, 9kHz ~30MHz

802.11ax HE40

CH38(Open) (9kHz ~ 150kHz)

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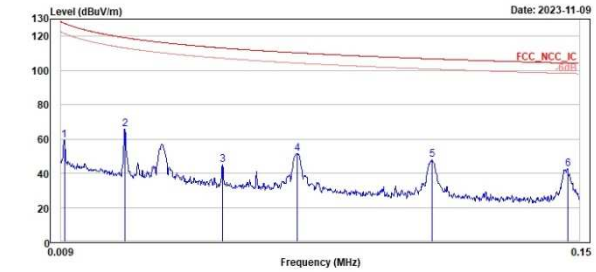
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	0.01	59.52	41.80	17.72	127.60	-68.08	100	213	Peak	Open	
2	0.03	65.85	46.90	18.95	119.13	-53.28	100	195	Peak	Open	
3	0.05	44.88	25.84	19.04	113.11	-68.23	100	193	Peak	Open	
4	0.07	51.53	32.98	18.55	110.29	-58.76	100	205	Peak	Open	
5	0.11	48.06	30.10	17.96	106.77	-58.71	100	194	Peak	Open	
6	0.15	42.68	24.57	18.11	104.27	-61.59	100	194	Peak	Open	

CH 38(Open) (150kHz ~ 30MHz)

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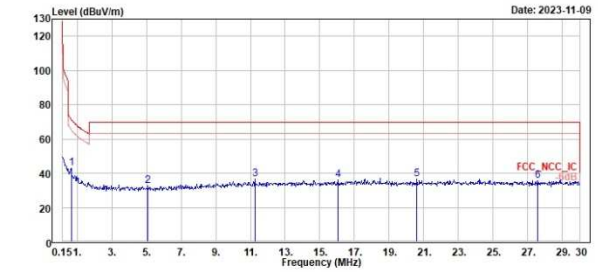
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	0.66	43.21	24.29	18.92	71.25	-28.04	100	202	Peak	Open	
2	5.08	32.42	12.89	19.53	69.50	-37.08	100	340	Peak	Open	
3	11.25	36.60	14.92	21.68	69.50	-32.90	100	140	Peak	Open	
4	16.03	36.07	14.06	22.01	69.50	-33.43	100	189	Peak	Open	
5	20.60	36.33	14.03	22.30	69.50	-33.17	100	332	Peak	Open	
6	27.55	35.68	13.32	22.36	69.50	-33.82	100	245	Peak	Open	

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

802.11ax HE40

CH 38 (Horizontal)

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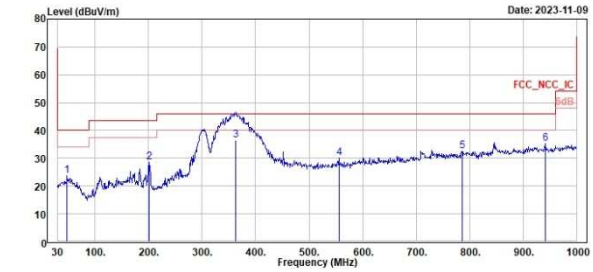
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	47.46	23.83	29.66	-5.83	40.00	-16.17	200	4	Peak	Horizontal	
2	201.69	28.64	37.35	-8.71	43.50	-14.86	100	225	Peak	Horizontal	
3	362.71	36.49	40.00	-3.51	46.00	-9.51	100	351	QP	Horizontal	
4	555.74	30.06	30.10	-0.04	46.00	-15.94	300	297	Peak	Horizontal	
5	785.63	32.65	29.37	3.28	46.00	-13.35	200	132	Peak	Horizontal	
6	941.80	35.15	29.91	5.24	46.00	-10.85	184	360	Peak	Horizontal	

CH 38 (Vertical)

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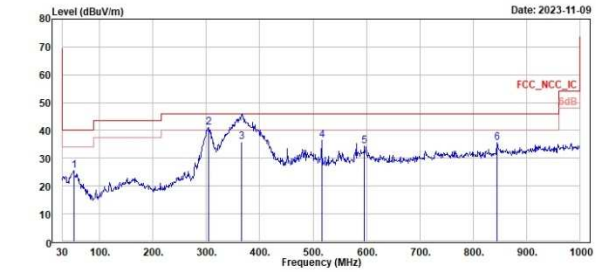
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	51.34	25.43	31.04	-5.61	40.00	-14.57	100	308	Peak	Vertical	
2 !	303.54	41.01	45.63	-4.62	46.00	-4.99	200	314	Peak	Vertical	
3	366.59	35.75	39.20	-3.45	46.00	-10.25	152	360	QP	Vertical	
4	515.97	36.38	37.57	-1.19	46.00	-9.62	100	178	Peak	Vertical	
5	596.48	34.49	34.09	0.40	46.00	-11.51	100	186	Peak	Vertical	
6	844.80	35.53	31.41	4.12	46.00	-10.47	200	169	Peak	Vertical	

Spurious Emissions, Tx Mode, 1GHz ~ 40GHz

U-NII-1

802.11a

CH 48 (Horizontal)

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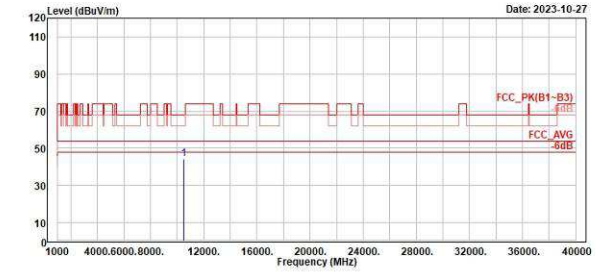
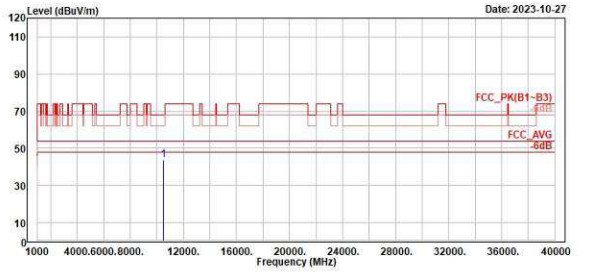


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	10480.00	44.05	44.58	-0.53	68.20	-24.15	200	6	Peak	Horizontal	

CH 48 (Vertical)

TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	10480.00	43.95	44.48	-0.53	68.20	-24.25	100	162	Peak	Vertical	

802.11ax HE20	
CH 40 (Horizontal)	**CH 40 (Vertical)**

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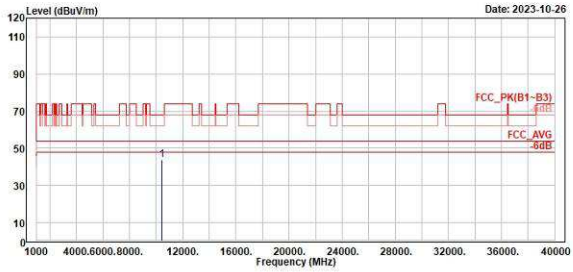
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	10400.00	43.71	44.41	-0.70	68.20	-24.49	200	0	Peak	Horizontal	

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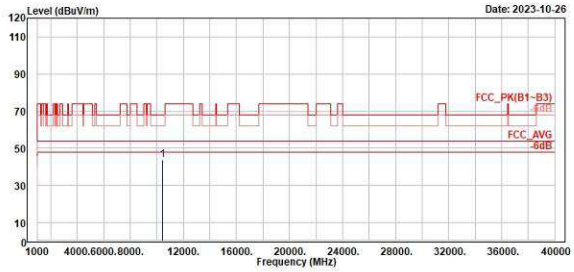

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	10400.00	43.94	44.64	-0.70	68.20	-24.26	300	215	Peak	Vertical	

802.11ax HE40

CH 38 (Horizontal)

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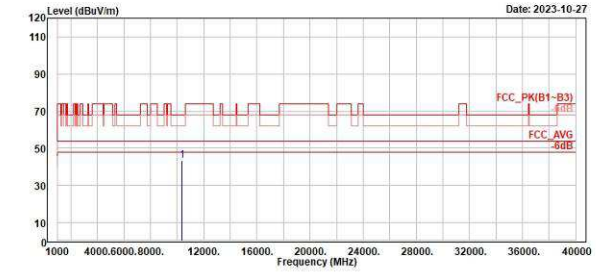

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	10380.00	43.27	43.99	-0.72	68.20	-24.93	200	88	Peak	Horizontal	

CH 38 (Vertical)

TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
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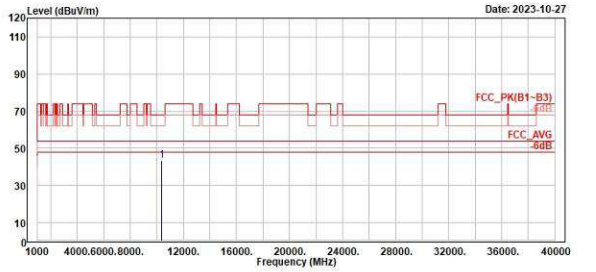

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	10380.00	43.49	44.21	-0.72	68.20	-24.71	300	360	Peak	Vertical	

802.11ax HE80	
CH 42 (Horizontal)	**CH 42 (Vertical)**

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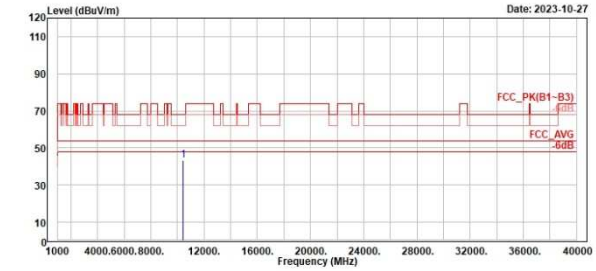

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	10420.00	43.20	43.85	-0.65	68.20	-25.00	200	35	Peak	Horizontal	

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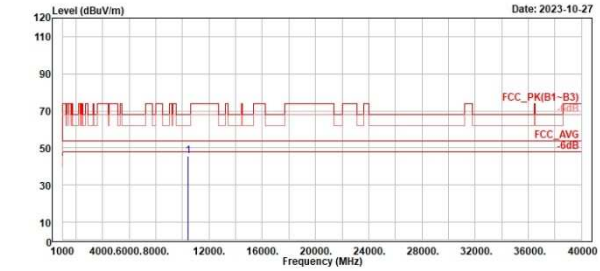

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	10420.00	45.54	46.19	-0.65	68.20	-22.66	200	360	Peak	Vertical	

802.11ax HE160

CH 50 (Horizontal)

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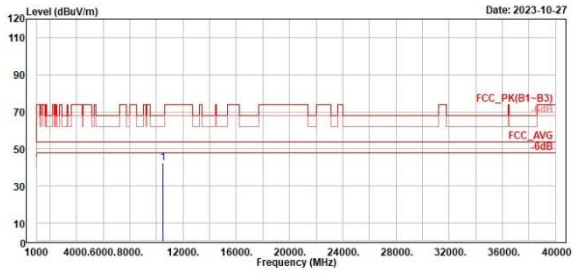

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	10500.00	42.58	43.07	-0.49	68.20	-25.62	200	174	Peak	Horizontal	

CH 50 (Vertical)

TUV Rheinland Taiwan Ltd.
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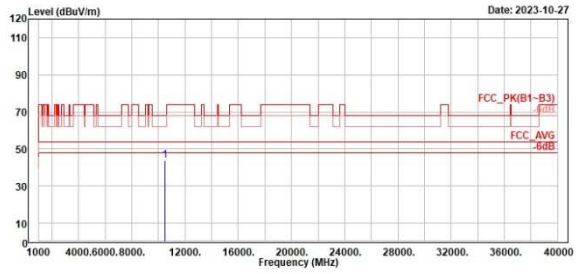
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	10500.00	43.72	44.21	-0.49	68.20	-24.48	100	78	Peak	Vertical	

U-NII-2A

802.11a	
CH 64 (Horizontal)	CH 64 (Vertical)

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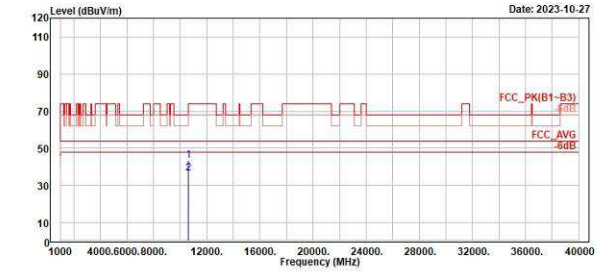
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	10640.00	43.28	43.67	-0.39	74.00	-30.72	300	236	Peak	Horizontal	
2	10640.00	36.62	37.01	-0.39	54.00	-17.38	300	236	Average	Horizontal	

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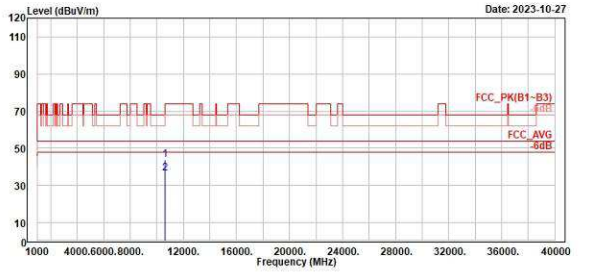
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	10640.00	43.65	44.04	-0.39	74.00	-30.35	200	17	Peak	Vertical	
2	10640.00	36.72	37.11	-0.39	54.00	-17.28	200	17	Average	Vertical	

802.11ax HE20

CH 64 (Horizontal)

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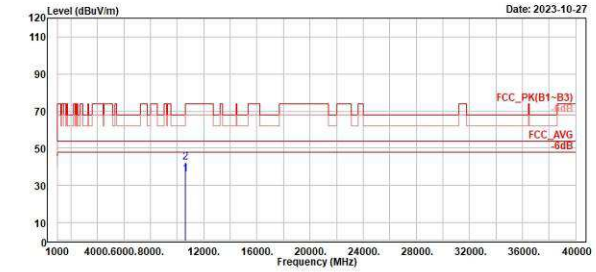

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	10640.00	36.05	36.44	-0.39	54.00	-17.95	178	360	Average	Horizontal	
2	10640.00	42.31	42.70	-0.39	74.00	-31.69	178	360	Peak	Horizontal	

CH 64 (Vertical)

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No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
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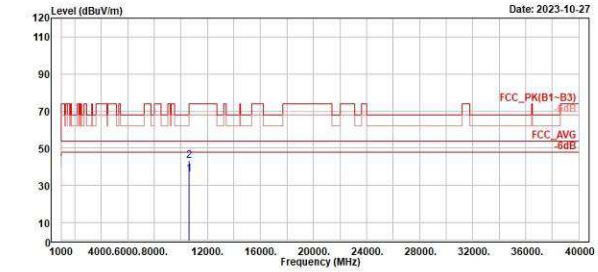

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	10640.00	35.98	36.37	-0.39	54.00	-18.02	100	330	Average	Vertical	
2	10640.00	43.16	43.55	-0.39	74.00	-30.84	100	330	Peak	Vertical	

802.11ax HE40

CH 62 (Horizontal)

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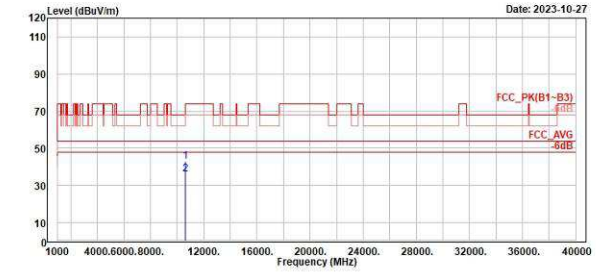

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	10620.00	42.70	43.13	-0.43	74.00	-31.30	200	72	Peak	Horizontal	
2	10620.00	36.13	36.56	-0.43	54.00	-17.87	200	72	Average	Horizontal	

CH 62 (Vertical)

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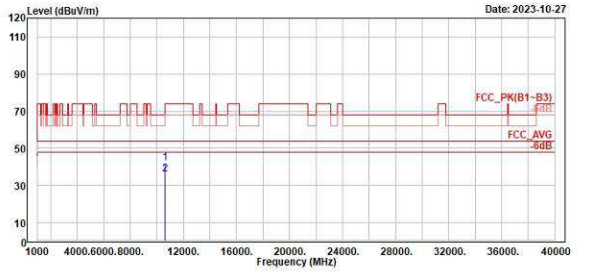

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	10620.00	42.09	42.52	-0.43	74.00	-31.91	100	119	Peak	Vertical	
2	10620.00	36.10	36.53	-0.43	54.00	-17.90	100	119	Average	Vertical	

802.11ax HE80

CH 58 (Horizontal)

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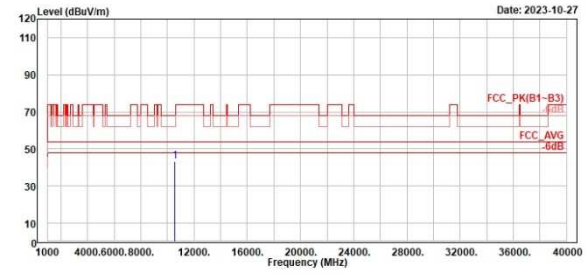

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	10580.00	43.17	43.64	-0.47	68.20	-25.03	113	360	Peak	Horizontal	

CH 58 (Vertical)

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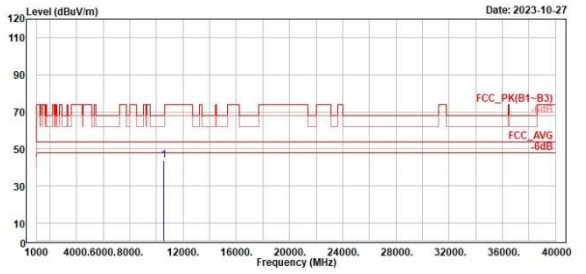

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	10580.00	43.63	44.10	-0.47	68.20	-24.57	100	20	Peak	Vertical	