

FCC TEST REPORT

Test report
On Behalf of
Measy Technology Co., Ltd
For

Wireless AV Extender

Model No.: AV220, AV230, AV240, AV250, AV24, AV24RX, RCA24RX, AV241, AV242, AV243, AV244, AV245, AV246, AV247, AV248, AV249, AV530, AV540, AV550, AV58, AV58RX, AV585, AV585RX, AV581, AV582, AV583, AV584, AV585, AV586, AV587, AV588, AV589, AU680, AU681, AU682, AU683, AU684, AU685, AU686

FCC ID: 2A4VQ-AV220

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Date of Test: Feb. 16, 2022~Feb. 24, 2022

Date of Report: Feb. 24, 2022

Report Number: HK2202160390-E



THE THE	ST RES	JLT CERTIF	ICATION		
Applicant's name:	Measy Tec	hnology Co., Ltd			
Address:			loor, Block 1, Yinjir et Xinan Street, Bad		•
Manufacture's Name:	Measy Tec	hnology Co., Ltd			
Address:			loor, Block 1, Yinjir et Xinan Street, Bad		•
Product description					
Trade Mark:	Measy				
Product name:	Wireless A	V Extender			
Model and/or type reference :	AV242, AV AV530, AV AV582, AV	(243, AV244, AV (540, AV550, AV (583, AV584, AV	/250, AV24, AV24F /245, AV246, AV24 /58, AV58RX, AV5 /585, AV586, AV58 J683, AU684, AU6	17, AV248, AV 85, AV585RX, 37, AV588, AV	249, AV581,
Standards	FCC Rules ANSI C63.	- 70.0	s Part 15 Subpart 0	Section 15.24	19
Shenzhen HUAK Testing Technomaterial. Shenzhen HUAK Testin liability for damages resulting front placement and context.	g Technolog	gy Co., Ltd. take	s no responsibility	for and will not	t assume
Date of Test	:				
Date (s) of performance of tests	HUAK TES	Feb. 16, 2022~F	Feb. 24, 2022		
Date of Issue	:	Feb. 24, 2022			
Test Result	MUAN ESTING	Pass MANAGE TO	G HUANTET		
Testing Engir	neer :	Caar	J Dian	· HAKTESTING	
		(Ga	ary Qian)		
Technical Ma	nager :	2den	+h	ESTING NUMBER	
	_	(E	den Hu)		

Authorized Signatory:

(Jason Zhou)

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	Table of Co	ntents	Page
1 . TEST SUMMARY			5
1.1 . Test Procedure	s and Results		5
1.2 . Information of t	he Test Laboratory		HUAK 5.5
1.3 . Measurement l	Jncertainty		5
2 . GENERAL INFOR	MATION		6
2.1 . General Descri	ption of EUT		WAKTESTING 6
2.2 . Operation of El	JT During Testing		7
2.3 . Description of	No.		8
2.4 . Measurement I	nstruments List		MAKTE 9
3. CONDUCTED EI	MISSIONS TEST		10
3.1. Conducted Pow	er Line Emission Li	mit	10
3.2. Test Setup			10
3.3. Test Procedure			10
3.4. Test Result			11
4. RADIATED EMISS	ON TEST		13
4.1. Radiation Limit			13
4.2. Test Setup			13
4.3. Test Procedure			14
4.4. Test Result			ниак 14
5. BAND EDGE			20
5.1. Limits			20
5.2. Test Procedure			20
5.3. Test Result			21
6. OCCUPIED BAND	WIDTH MEASURE	EMENT	23
6.1. Test Setup			23
6.2. Test Procedure			23
6.3. Measurement E	quipment Used		23
6.4. Test Result			23
7. ANTENNA REQUIF	REMENT		25
8. PHOTOGRAPH OF	TEST		26
	FIIT		28



Page 4 of 28

Report No.: HK2202160390-E

** Modified History **

-11/10	In the same	C.V.	-410C.11. [B.	
Revision	Description	Issued Data	Remark	
Revision 1.0	Initial Test Report Release	Feb. 24, 2022	Jason Zhou	

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1. TEST SUMMARY

1.1. Test Procedures and Results

	-11/1-	Alle
DESCRIPTION OF TEST	SECTION NUMBER	RESULT
CONDUCTED EMISSIONS TEST	15.207	COMPLIANT
RADIATED EMISSION TEST	15.249(a)/15.209	COMPLIANT
BAND EDGE	15.249(d)/15.205	COMPLIANT
OCCUPIED BANDWIDTH MEASUREMENT	15.215 (c)	COMPLIANT
ANTENNA REQUIREMENT	15.203	COMPLIANT

1.2. Information of the Test Laboratory

Shenzhen HUAK Testing Technology Co., Ltd.

Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization:

A2LA Accreditation Code is 4781.01. FCC Designation Number is CN1229. Canada IC CAB identifier is CN0045. CNAS Registration Number is L9589.

1.3. Measurement Uncertainty

Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.71dB, k=2 Radiated emission expanded uncertainty(9kHz-30MHz) = 3.90dB, k=2 Radiated emission expanded uncertainty(30MHz-1000MHz) = 3.90dB, k=2 Radiated emission expanded uncertainty(Above 1GHz) = 4.28dB, k=2



2. GENERAL INFORMATION

2.1. General Description of EUT

Equipment:	Wireless A	√ Extender	.1G	a)G			
Model Name:	AV220	- WAK TESTIN	- JUAK TESTI	- JUAK TESTI			
	AV230, AV240, AV250, AV24, AV24RX, RCA24RX, AV241,						
	AV242, AV	243, AV244, AV24	45, AV246, AV247, A	AV248, AV249,			
Series Model:	AV530, AV	540, AV550, AV58	8, AV58RX, AV585,	AV585RX,			
	AV581, AV	582, AV583, AV58	84, AV585, AV586, A	AV587, AV588,			
	AV589, AU680, AU681, AU682, AU683, AU684, AU685, AU686						
	All model's	the function, softw	vare and electric circ	cuit are the			
Model Difference:	same, only with a product color, appearance and model named						
	different. Test sample model: AV220.						
FCC ID:	2A4VQ-AV	220	G	G			
Antenna Type:	External Ar	ntenna	THUAK TESTING	HUAKTESTIN			
Antenna Gain:	0dBi						
Operation frequency:	2420-2465	MHz	AK TESTING	.\G			
Number of Channels:	25CH	WAKTESTIL	O HO	UAKTESTIL			
Modulation Type:	GFSK		TING (C)				
Power Source:	5V DC, 1A	from adapter with	n AC100-240V, 50/6	0Hz, 0.2A			
Power Rating:	5V DC, 1A	from adapter with	n AC100-240V, 50/6	0Hz, 0.2A			

TEICATION





2.1.1. Carrier Frequency of Channels

all	"IAI"	AK The	"IPI"	AK IV	" I AIT
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
STING 1	2420	10	2437	19	2453
2	2422	11	2439	20	2455
3	2424	12	2441	21	2457
4	2426	13	2443	22	2459
5 , 111/4	2428	14 ,,,,,,,	2445	23	2461
6	2430	15	2446	24	2463
7	2431	16	2447	25	2465
8	2433	17	2449	TESTINE	W. II.S. II.
9	2435	18	2451	(i)	

2.2. Operation of EUT During Testing

Operating Mode

The mode is used: Transmitting mode

Low Channel: 2420MHz Middle Channel: 2441MHz High Channel: 2465MHz

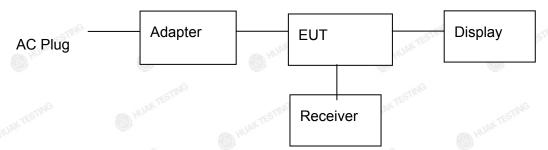
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1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

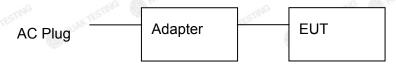


2.3. Description of Test Setup

Operation of EUT during conducted testing and radiation below 1GHz testing:



Operation of EUT during radiation above 1GHz testing:



Adapter information

Model: SJ-05010001

Input: 100-240V~50-60Hz 0.2A

Output:5V 1A

Receiver information

Model: AV220-RX

Display information

Model: 24PFF3661/T3

The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. The worst case is X position.

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2.4. Measurement Instruments List

Item Equipment		Manufacturer	Model No.	Serial No.	Last Cal.	Cal.	
IK TEST	L.I.S.N.	- WAKTEST	MAKTESI	- WAKT		KTESIN	
1.	Artificial Mains	R&S	ENV216	HKE-002	Dec. 09, 2021	1 Year	
TING	Network	TESTING		TESTIN			
2.	Receiver	R&S	ESCI 7	HKE-010	Dec. 09, 2021	1 Year	
3.	RF automatic control unit	Tonscend	JS0806-2	HKE-060	Dec. 09, 2021	1 Year	
4.	Spectrum analyzer	R&S	FSP40	HKE-025	Dec. 09, 2021	1 Year	
5.	Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 09, 2021	1 Year	
6.	Preamplifier	Schwarzbeck	BBV 9743	HKE-006	Dec. 09, 2021	1 Year	
7.TING	EMI Test Receiver	Rohde & Schwarz	ESCI 7	HKE-010	Dec. 09, 2021	1 Year	
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	HKE-012	Dec. 09, 2021	1 Year	
9.	Loop Antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Dec. 09, 2021	⁰ 1 Year	
10.	Horn Antenna	Schewarzbeck	9120D	HKE-013	Dec. 09, 2021	1 Year	
11.	Pre-amplifier	EMCI	EMC051845S E	HKE-015	Dec. 09, 2021	1 Year	
12.	Pre-amplifier	Agilent	83051A	HKE-016	Dec. 09, 2021	1 Year	
13.	EMI Test Software EZ-EMC	Tonscend	JY3120-B Version	HKE-083	N/A	N/A	
14.	Power Sensor	Agilent	E9300A	HKE-086	Dec. 09, 2021	1 Year	
15.	Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 09, 2021	1 Year	
16.	Signal generator	Agilent	N5182A	HKE-029	Dec. 09, 2021	1 Year	
17.	Signal Generator	Agilent	83630A	HKE-028	Dec. 09, 2021	1 Year	
18.	Shielded room	Shiel Hong	4*3*3	HKE-039	Dec. 09, 2021	3 Year	
19.	Hight gain antenna	Schwarzbeck	LB-180400KF	HKE-054	Dec. 09, 2021	1 Year	



3. CONDUCTED EMISSIONS TEST

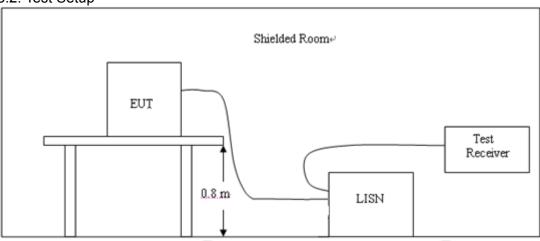
3.1. Conducted Power Line Emission Limit

For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following.

F	Maximum RF Line Voltage (dBμV)					
Frequency (MHz)	CLASS A		CLASS B			
(11112)	Q.P. Ave.		Q.P.	Ave.		
0.15 - 0.50	79	66	66-56*	56-46*		
0.50 - 5.00	73	60	56	46		
5.00 - 30.0	73	60	60	50		

^{*} Decreasing linearly with the logarithm of the frequency.
For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

3.2. Test Setup



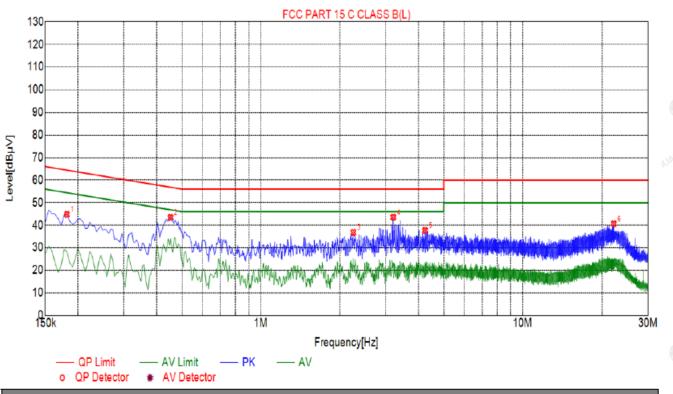
3.3. Test Procedure

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5. All support equipments received AC power from a second LISN, if any.
- 6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.

3.4. Test Result

All the test modes completed for test. only the worst result was reported as below:

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



C		1:4
Sus	pected	LIST

	ouspecied List								
7668B	NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBμV]	Detector	Туре
	1	0.1815	44.77	20.06	64.42	19.65	24.71	PK	L
Ý	2	0.4515	43.47	20.04	56.85	13.38	23.43	PK	L
<	3	2.2560	36.83	20.18	56.00	19.17	16.65	PK	L
	4	3.2055	43.56	20.23	56.00	12.44	23.33	PK	L
3	5	4.2405	37.71	20.25	56.00	18.29	17.46	PK	L
	6	22.1685	40.68	20.16	60.00	19.32	20.52	PK	L

Remark: Margin = Limit – Level

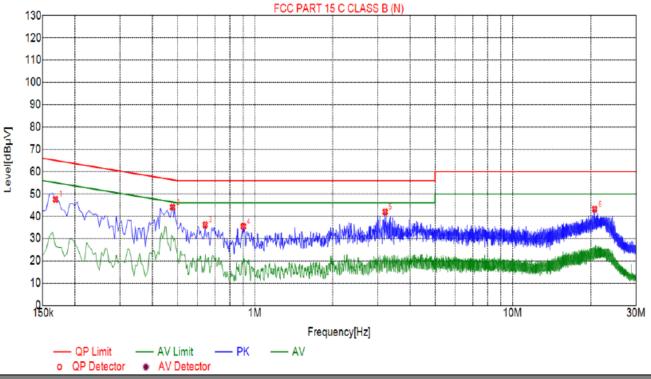
Correction factor = Cable lose + LISN insertion loss Level=Test receiver reading + correction factor

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Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



Sus	Suspected List								
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре	
1	0.1680	47.59	20.01	65.06	17.47	27.58	PK	N	
2	0.4785	44.01	20.04	56.37	12.36	23.97	PK	N	
3	0.6405	36.13	20.05	56.00	19.87	16.08	PK	N	
4	0.9015	35.42	20.06	56.00	20.58	15.36	PK	N	
5	3.2010	41.95	20.23	56.00	14.05	21.72	PK	N	
6	20.7015	43.20	20.13	60.00	16.80	23.07	PK	N	

Remark: Margin = Limit - Level

Correction factor = Cable lose + LISN insertion loss Level=Test receiver reading + correction factor CATION



4. RADIATED EMISSION TEST

4.1. Radiation Limit

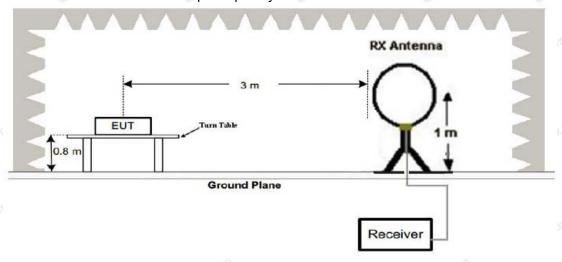
For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)
0.009-0.490	300	20log 2400/F (kHz)	2400/F (kHz)
0.490-1.705	30	20log 24000/F (kHz)	24000/F (kHz)
1.705-30	30	20log 30	30
30-88	3	40	100
88-216	3	43.5	150
216-960	3	46	200
Above 960	HUPA 3	54	500

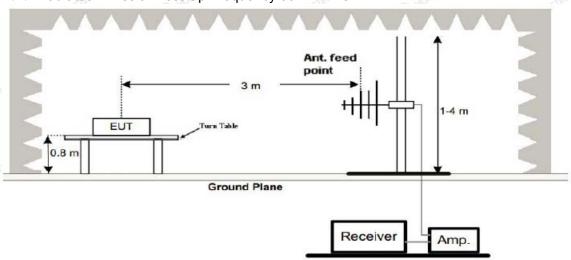
For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

4.2. Test Setup

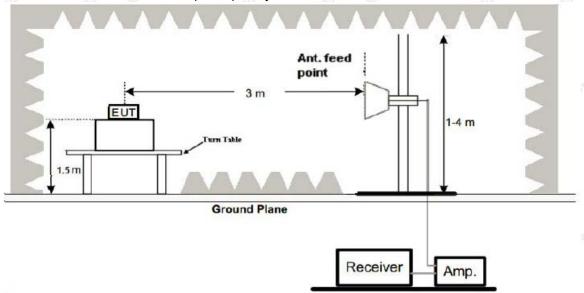
(1) Radiated Emission Test-Up Frequency Below 30MHz



(2) Radiated Emission Test-Up Frequency 30MHz~1GHz



(3) Radiated Emission Test-Up Frequency Above 1GHz



4.3. Test Procedure

- 1. Below 1GHz measurement the EUT is placed on turntable which is 0.8m above ground plane. And above 1GHz measurement EUT was placed on low permittivity and low tangent turn table which is 1.5m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.
- 7. The test frequency range from 9KHz to 25GHz per FCC PART 15.33(a).

Note:

For battery operated equipment, the equipment tests shall be performed using a new battery.

4.4. Test Result

PASS

All the test modes completed for test. The worst case of Radiated Emission is CH 01; the test data of this mode was reported.



Below 1GHz Test Results:

Antenna polarity: H

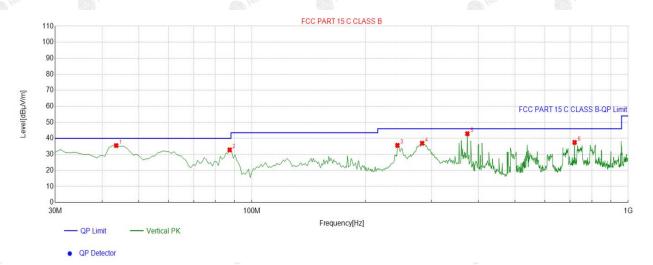


	2000 A.		Account A.		ASSESS A.		STATES A.			
	Suspe	cted List								
	NO	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Dolovitu
3	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
	1	57.1872	-14.74	41.51	26.77	40.00	13.23	100	355	Horizontal
. [2	280.5105	-13.23	50.18	36.95	46.00	9.05	100	162	Horizontal
	3	360.1301	-11.34	50.41	39.07	46.00	6.93	100	40	Horizontal
	4	382.4625	-10.78	50.38	39.60	46.00	6.40	100	56	Horizontal
	5	539.7598	-7.21	42.39	35.18	46.00	10.82	100	289	Horizontal
	6	720.3604	-4.70	42.12	37.42	46.00	8.58	100	340	Horizontal

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



Antenna polarity: V



Suspe	ected List								
NO.	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	43.5936	-13.90	49.40	35.50	40.00	4.50	100	111	Vertical
2	87.2873	-17.72	50.51	32.79	40.00	7.21	100	268	Vertical
3	243.6136	-13.69	49.32	35.63	46.00	10.37	100	146	Vertical
4	283.4234	-13.11	50.04	36.93	46.00	9.07	100	55	Vertical
5	373.7237	-10.93	53.81	42.88	46.00	3.12	100	320	Vertical
6	720.3604	-4.70	42.16	37.46	46.00	8.54	100	213	Vertical

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

Harmonics and Spurious Emissions

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dBµV/m)	Limit@3m (dBµV/m)
The U.S.	KTESTING TING	WAKTESTING
HILAKTES	HLAK TES	HUAKTES
5		-STING
ING MUNK IS	me Mu	je.

Note: 1. Emission Level=Reading+ Cable loss+ Antenna factor-Amp factor.

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement.



Above 1 GHz Test Results: CH Low (2420MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	(a) HO
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2420	106.48	-5.84	100.64	114	-13.36	peak
2420	83.73	-5.84	77.89	94	-16.11	AVG
4840	56.43	-3.64	52.79	74	-21.21	peak
4840	43.09	-3.64	39.45	54	-14.55	AVG
7260	52.34	-0.95	51.39	74	-22.61	peak
7260	40.55	-0.95	39.6	54	-14.4	AVG
lemark: Facto	r = Antenna Fa	ctor + Cable L	oss – Pre-amplifier.			

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	MAK TEST
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detecto Type
2420	105.82	-5.84	99.98	114	-14.02	peak
2420	81.03	-5.84	75.19	94	-18.81	AVG
4840	52.65	-3.64	49.01	74	-24.99	peak
4840	42.59	-3.64	38.95	54	-15.05	AVG
7260	52.93	-0.95	51.98	74	-22.02	peak
7260	41.72	-0.95	40.77	54	-13.23	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

CH Middle (2441MHz)

Horizontal:

requency	Meter Reading	Factor	Emission Level	Limits	Margin	Detecto
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
2441	108.65	-5.71	102.94	114	-11.06	peak
2441	79.51	-5.71	73.8	94	-20.2	AVG
4882	53.78	-3.51	50.27	74	-23.73	peak
4882	42.23	-3.51	38.72	54	-15.28	AVG
7323	51.35	-0.82	50.53	74	-23.47	peak
7323	42.19	-0.82	41.37	54	-12.63	AVG

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
2441	107.75	-5.71	102.04	114 TESTING	-11.96	peak
2441	80.75	-5.71	75.04	94	-18.96	AVG
4882	55.14	-3.51	51.63	74	-22.37	peak
4882	44.97	-3.51	41.46	54	-12.54	AVG
7323	52.38	-0.82	51.56	74	-22.44	peak
7323	41.97	-0.82	41.15	54	-12.85	AVG



CH High (2465MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Datasta
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2465	102.23	-5.65	96.58	114	-17.42	peak
2465	82.33	-5.65	76.68	94	-17.32	AVG
4930	57.06	-3.43	53.63	74	-20.37	peak
4930	44.21	-3.43	40.78	54	-13.22	AVG
7395	50.68	-0.75	49.93	74	-24.07	peak
7395	42.04	-0.75	41.29	54	-12.71	AVG

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2465	104.69	-5.65	99.04	114	-14.96	peak
2465	81.75	-5.65	76.1	94	-17.9	AVG
4930	55.25	-3.43	51.82	74	-22.18	peak
4930	43.09	-3.43	39.66	54	-14.34	AVG
7395	56.52	-0.75	55.77	74	-18.23	peak
7395	40.31	-0.75	39.56	54	-14.44	AVG
。 emark: Facto	r = Antenna Fa	ctor + Cable L	oss – Pre-amplifier.			

Remark

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency; "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not record in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.
- (7) All modes of operation were investigated and the worst-case emissions are reported.



5. BAND EDGE

5.1. Limits

FCC PART 15.249(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

5.2. Test Procedure

The band edge compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW to 1MHz and VBM to 3MHz to measure the peak field strength and set RBW to 1MHz and VBW to 10Hz to measure the average radiated field strength.

5.3. Test Result

PASS

Radiated Band Edge Test:

Operation Mode: TX CH Low (2420MHz)

Horizontal (Worst case)

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2310	57.12	-5.81	51.31	74 TESTING	-22.69	peak
2310	TESTILE (-5.81	TING I	54	ING	AVG
2390	56.29	-5.84	50.45	74	-23.55	peak
2390	1	-5.84	1	54	/	AVG
2400	54.45	-5.84	48.61	74	-25.39	peak
2400	HUAK	-5.84	I HUAR	54	1	AVG

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2310	57.21	-5.81	51.4	74	-22.6	peak
2310	K TE TING	-5.81	TING / WIFET	^{NG} 54	K TESTING	AVG
2390	56.66	-5.84	50.82	74	-23.18	peak
2390	1	-5.84	1	54	TING /	AVG
2400	55.94	-5.84	50.1	74	-23.9	peak
2400	1	-5.84	· /	54	1 🖤	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



Operation Mode: TX CH High (2465MHz)

Horizontal (Worst case)

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Tune
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	56.24	-5.65	50.59	74	-23.41	peak
2483.50	I Supplied to the supplied to	-5.65	1	54	K TESTING	AVG
2500.00	53.59	-5.65	47.94	74	-26.06	peak
2500.00	1	-5.65	1	54	10 I	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2483.50	56.05	-5.65	50.4	74	-23.6	peak
2483.50	1	-5.65	MINANA MARKET	54	1	AVG
2500.00	55.71	-5.65	50.06	74	-23.94	peak
2500.00	HUAKTESTIN	-5.65	STIME HUAKTES	54	TESTING	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.



6. OCCUPIED BANDWIDTH MEASUREMENT

6.1. Test Setup

Same as Radiated Emission Measurement

6.2. Test Procedure

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Set EUT as normal operation.
- 3. Based on ANSI C63.10 section 6.9.2: RBW=20KHz. VBW= 62 KHz, Span=3MHz.
- 4. The useful radiated emission from the EUT was detected by the spectrum analyzer with peak detector.

6.3. Measurement Equipment Used

Same as Radiated Emission Measurement

6.4. Test Result

PASS

Frequency	20dB Bandwidth (MHz)	Result
2420 MHz	1.258	PASS
2441 MHz	1.257	PASS
2465 MHz	1.258	PASS

CH: 2420MHz



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CH: 2441MHz



CH: 2465MHz



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7. ANTENNA REQUIREMENT

Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device

Antenna Connected Construction

The antenna used in this product is a External Antenna, need professional installation, It conforms to the standard requirements. The directional gains of antenna used for transmitting is 0dBi.

ANTENNA



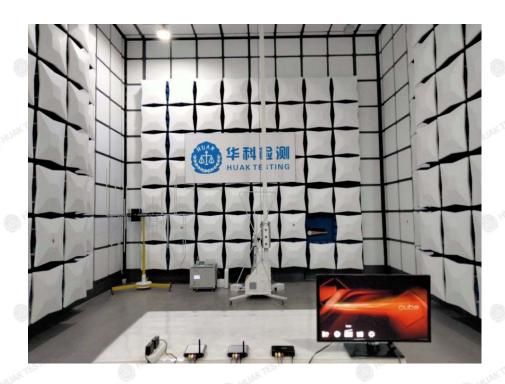
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8. PHOTOGRAPH OF TEST

Radiated Emission



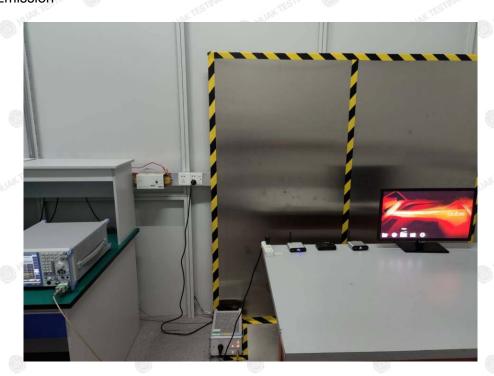


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Conducted Emission



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9. PHOTOS OF THE EUT

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos.

End of test report-