

FCC ID: 2ABC5-E0054 Report No.: 18220WC40074704 Page 1 of 50

# **FCC Test Report**

SHENZHEN ELECTRON TECHNOLOGY **Applicant** 

CO.,LTD.

Bld.2, Yingfeng Industrial Zone, Tantou Address

: Community, Songgang Street, Baoan,

Shenzhen, China

**Product Name Android Tablet** 

: May 28, 2024 **Report Date** 

Shenzhen Anbotek Con Anbotek



ce Laboratory Limited









Report No.: 18220WC40074704 FCC ID: 2ABC5-E0054 Page 2 of 50

# **Contents**

1 0000000	Apportion Air						·ek
i. General Info	ormation		ek vupo	yek yes	-ek	~potek	Augoli
1.1. Clien	ormation  It Information  It Information  Inipition of Device (EU  Idea is a Equipment Used  Idea is a Equipment Used  Idea is a Equipment Used  Idea is a Equipment Uncertainty  I	10 <sup>1</sup>		holok	,bo70 P	71	
1.2. Desc	ription of Device (EU	T)		, ek	yoyek	Kupo,	
1.3. AUXIII	ary Equipment Used	During Test	-hotek	Aug O.		Vupalet.	pa?
1.4. Oper	ription of Test Modes	Aupole	HUN.	" "potek	ANDR	n	SK
1.6. Meas	surement Uncertainty	,	Anbu	r ugtek	Mpole	PU	
1.7. Test \$	Summary		Mpoler	Anbe		ite <sup>k</sup> pot	210
1.8. Desc	ription of Test Facility	/	77 NO.	ek	Ve. Vin		atel 1
1.9. Discl	aimer		4	······································	"PAKEJ	<sup>γ</sup> / <sub>0</sub> ,	1
1.10. lesi	t Equipment List		otek An	φΩ11Ω3	otek	Aupolei	<sub>K</sub> ov 1.
2. Conducted	Emission at AC power	er line	otek.	VUpoler	.Anbk	, 60/e/r	19
2.1. EUT	Operation		Aupo,	L. Kolek	anbore	VU	1
2.2. Test \$	Setup		Vipote.	YUr.		VOpo.	14
2.3. Test I	cription of Test Facility aimer t Equipment List Emission at AC power Operation Data Operation Setup Data Conducted output power Operation Setup Data Conducted output power Operation Data Operation Data	- AUD	49000	Alpois	N 57.	iek vio	1؛ 1
3. Duty Cycle.	700 K	popore		<sup>†</sup> 0067,,,	ek Anbe		
3.1. EUT	Operation	sk opote	Anbo		otek Ar	ipore P	<i>∖∩</i> ‴ 
3.2. Test \$	Setup		10,0	ote, An		botek	Anbo. 1
3.3. Test I	Data	oter And		oiek	Pupor		1
4. Maximum c	onducted output pow	er of the	nbore	VII	anboten	Vup.	18
41 FUT	Operation .						ρ.: 1:
4.2. Test	Setup	Anb	, otek	Anbolt		eV	19
4.3. Test l	Data		And	<u> </u>	k Vupo,		19
5. Power spec	ctral density Operation Setup	y botel	Y Aupo,	b.,	otek on	poter A	20
Anbarra Anbur	Operation				.e.K		Anbou
5.1. EU1	Setun	0.6 <sub>1</sub>		hotek	Auport	Mek	2
5 3 1AST I	Data P						٠,٠
6 Emission ba	andwidth and occupion	ed handwidth	abotek				5, Vu
O. EIIII33IOII DE	andwidth and occupit	od bandwidti	otek.	Anboren		, , bo	
6.1. EUI	Operation Setup		<u></u>	- bole	Anbol'		23
7 Pand odge	emissione (Padiated	Vie	iek upo	stek And		hotek	Anbore
7. band edge	emissions (Radiated	Y94	······································	hotek D	'upo <sub>re</sub> ,	, ek	nbore
7.1. EUT	Operation		,po <sup>181</sup>	un.	~/00/ke/r	Kipo,	2
7.2. IEST 3	Setup Data	, A	-hotel	Anbol	Al':otek	Vupaler.	2
potek 7.5. Test	Jala	Aupo	. Mar.	nborek	AUPK	k ,60°	20
8. Band edge	emissions (Conducte	ed)	Pupo,	P. Motel	Angot <sup>e</sup>	4224	38
8.1. EUT	Operation	b1		Anb		otek An'	3
8.2. Test	Setup			,ek	V. V.		3
8.3. Test I	Jata	iek	<u></u>	rek .	<sup>7</sup> polek	,d00	.::38
9. Undesirable	Data  emissions (Radiated Operation  Setup  emissions (Conducte Operation  Setup  Data  e emission limits (beleace)	ow 1GHz)	24	100. b		Wipole.	839
9.1. EUT	Operation	ipo, bi	-xe+	Vupo <sub>ter</sub>	VUr.	botek	4







Report No.: 18220WC40074704	FCC ID: 2ABC5-E005	Page 3 of 50	
9.2. Test Setup 9.3. Test Data	Wpolek Vipole		42 43
10. Undesirable emission limits (above 1GHz)	Yupo Yek	Anbore Ani notek	45
10.1. EUT Operation10.2. Test Setup	ek Aupolek Wipole	Jk Anbore And Z	47 47
10.3. Test Data		All	48
APPENDIX I TEST SETUP PHOTOGRAPH	Anbore And notek		50
APPENDIX II EXTERNAL PHOTOGRAPH	Aupor Ar hotek	700	50 50





Report No.: 18220WC40074704 FCC ID: 2ABC5-E0054 Page 4 of 50

# TEST REPORT

Applicant : SHENZHEN ELECTRON TECHNOLOGY CO.,LTD

Manufacturer : SHENZHEN ELECTRON TECHNOLOGY CO.,LTD.

Product Name : Android Tablet

Test Model No. : WF2135T

Reference Model No. : WF1415T, WF1565T, WF1525T, WF1735T, WF1855T, WF2155T

WF2405T, WF2705T, WF3205T, WF4305T, WF5505T

Trade Mark : N/A

Rating(s) : Input: 12V=3A

47 CFR Part 15E

Test Standard(s)

ANSI C63.10-2020

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

KDB 662911 D01 Multiple Transmitter Output v02r01

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with above listed standard(s) requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt:	Apr. 13, 2024
Anbort An notek Anbores Anb	
Date of Test: Apr. 15	5, 2024 to May 09, 2024
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potek Anbotek Anbotek Anbotek Anbotek	an xiu Chen
Prepared By: Mark Annoted Anno	potek Anbore All
Anbotek Anbotek Anbotek Anbotek Anbotek	(Nianxiu Chen)
Anbotek Anbotek Anbotek Anbotek Anbotek 7	lward pan
Approved & Authorized Signer:	horek Anboy
otek Anbors An botek Anbores Anbores	(Edward Pan)





Report No.: 18220WC40074704 FCC ID: 2ABC5-E0054 Page 5 of 50

# **Revision History**

	Report Version	Description	Issued Date		
	Anbore R00 potek Ant	Original Issue.	May 28, 2024		
9,	Anbotek Anbotek	Anbotek Anbotek Anbotek	K Anbotek Anbotek Ant		
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Report No.: 18220WC40074704 FCC ID: 2ABC5-E0054 Page 6 of 50

# 1. General Information

# 1.1. Client Information

Applicant	: SHENZHEN ELECTRON TECHNOLOGY CO.,LTD.
Address	Bld.2, Yingfeng Industrial Zone, Tantou Community, Songgang Street, Baoan, Shenzhen, China
Manufacturer	: SHENZHEN ELECTRON TECHNOLOGY CO.,LTD.
Address	Bld.2, Yingfeng Industrial Zone, Tantou Community, Songgang Street, Baoan, Shenzhen, China
Factory	: SHENZHEN ELECTRON TECHNOLOGY CO.,LTD.
Address	Bld.2, Yingfeng Industrial Zone, Tantou Community, Songgang Street, Baoan, Shenzhen, China

# 1.2. Description of Device (EUT)

Product Name	:	Android Tablet
Test Model No.	:	WF2135T
Reference Model No.	:	WF1415T, WF1565T, WF1525T, WF1735T, WF1855T, WF2155T, WF2405T, WF2705T, WF3205T, WF4305T, WF5505T (Note: All samples are the same except the model number, so we prepare "WF2135T" for test only.)
Trade Mark	:	N/A Anbotek Anbotek Anbotek Anbotek Anbotek
Test Power Supply	:	DC 12V form adapter input AC 120V/60Hz
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	Manufacturer: SHENZHEN FUJIA APPLIANCE CO., LTD. Model: FJ-SW20261203000 Input: 100-240V~ 50/60Hz 1.5A Max Output: 12.0V 3.0A, 36.0W
RF Specification		
Operation Frequency	:	802.11a/n(HT20)/ac(VHT20)/ax(HEW20): U-NII Band 1: 5180MHz to 5240MHz; U-NII Band 3: 5745MHz to 5825MHz;  802.11n(HT40)/ac(VHT40)/ax(HEW40): U-NII Band 1: 5190MHz to 5230MHz; U-NII Band 3: 5755MHz to 5795MHz;  802.11ac(VHT80)/ax(HEW80): U-NII Band 1: 5210MHz; U-NII Band 3: 5775MHz
Number of Channel	:	802.11a/n(HT20)/ac(HT20)/ax(HE20): U-NII Band 1: 4; U-NII Band 3: 5; 802.11n(HT40)/ac(HT40)/ax(HE40):







Report No.: 18220WC40074704 FCC ID: 2ABC5-E0054 Page 7 of 50

,0, by,		700	1/2 1/2 P	y. Alexander	
		U-NII Band 1: 2; U-NII Band 3: 2; 802.11ac(HT80)/ax(HE8 U-NII Band 1: 1; U-NII Band 3: 1	Anborek Anborek  O): Anborek Anborek  Anborek Anborek	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbote	
Modulation Type	:	802.11n: OFDM (BPSK, 802.11ac: OFDM (BPSK	QPSK, 16QAM, 64QAM); QPSK, 16QAM, 64QAM); , QPSK, 16QAM, 64QAM, K, QPSK, 16QAM, 64QAM	, 256QAM);	
Antenna Type	:	FPC Antenna		Aupo, tek work	
Antenna Gain(Peak)	:	WiFi 5.2G ANT1: 1.52 dE WiFi 5.2G ANT2: 2.46 dE WiFi 5.8G ANT1: 1.85 dE WiFi 5.8G ANT2: 1.90 dE	Bi Anbote, Anbo	tek Aupotek Aupote Yotek Aupotek Aupote	
Directional antenna gain	:	WiFi 5.2G: 5.03dBi WiFi 5.8G: 4.89dBi	upotek Anbote Ar	Anbotek Anbotek A	
Device Type	:	Outdoor AP	☐ Indoor AP	☐ Point-to-point AP	
,,		⊠ Client	Aupoisi. Yun	, potek Aupo,	
TPC Function	:	☐ With TPC	⊠ Without <sup>-</sup>	TPC Andorek Andore	
DFS Type Slave without radar detection Slave with radar detection    Master					
(2) For a more detaile User's Manual. (3) Only 802.11n(HT2 802.11ac(VHT80)/ax(I	d fe 0)/a HE	ac(VHT20)/ax(HEW20), 80	e refer to the manufacture 02.11n(HT40)/ac(VHT40)/	anbore Anbore	

#### Shenzhen Anbotek Compliance Laboratory Limited





Report No.: FCC ID: 2ABC5-E0054 18220WC40074704 Page 8 of 50

### 1.3. Auxiliary Equipment Used During Test

Title		Manufacturer	Model No.	Serial No.
	Anbotek / Anboten	Ant stek anbotek	Aupor An Photok	Anbore / Ano

### 1.4. Operation channel list

Operation Band: U-NII Band 1

Bandwidth:	20MHz	Bandwidth:	40MHz	Bandwidth:	80MHz
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190	Anboten 42 Anb	5210
40	5200	o <sup>tek</sup> 46 M	5230	Aupore, Au	hotek / Anbote
e <sup>k</sup> 44 <sup>10018</sup>	5220	Aupotek / Aupo	ack I spotek	Anbores	Ant March
orek 48 Anbores	5240	Anbotek An	orek / whole	K Mpoug	Vier

Operation Band: U-NII Band 3

Bandwidth:	20MHz	Bandwidth:	40MHz	Bandwidth:	80MHz
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
otek 149 nbotek	5745	nbot151 And	5755	155	5775
hotek 153 Anbot	5765	159	5795	otek Anborek	Aupo I siek
Ant Ant	5785	k Wolek	Anbore / Ans	botek / Anbotel	Anjo
161	5805	otek / Motek	Anboy	aborek/ Anbr	yer Mupo
165	5825	otek / anbotel	Aport	All BOOKER A	boten / Anto

Hotline



Report No.: 18220WC40074704 FCC ID: 2ABC5-E0054 Page 9 of 50

# 1.5. Description of Test Modes

Pretest Modes	Descriptions
Anbotek TM1 Anbotek	Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case.  Only the data of worst case is recorded in the report.
otek Anbotek Anbotek  Anbotek Anbotek Anbotek  Anbotek Anbotek	Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
Anbotek TM3	Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
nbotek Anbotek Anbotek	Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ax modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

Note: 80211ax mode only support full resource unit size.

# 1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.4dB Anbote Anbotek Anbotek Anbotek
Conducted Output Power	0.76dB
Power Spectral Density	0.76dB
Occupied Bandwidth	925Hz
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB
Radiated emissions (Below 30MHz)	3.53dB Anbotek Anbotek An
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB

The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.







FCC ID: 2ABC5-E0054 Report No.: 18220WC40074704 Page 10 of 50

### 1.7. Test Summary

Test Items	Test Modes	Status
Conducted Emission at AC power line	Mode1,2,3,4	And Poles
Duty Cycle	Mode1,2,3,4	P
Maximum conducted output power	Mode1,2,3,4	ek PATT
Power spectral density	Mode1,2,3,4	P
Emission bandwidth and occupied bandwidth	Mode1,2,3,4	inpo, b
Band edge emissions (Radiated)	Mode1,2,3,4	Anb P rek
Band edge emissions (Conducted)	Mode1,2,3,4	P
Undesirable emission limits (below 1GHz)	Mode1,2,3,4	P <sup>Anb</sup>
Undesirable emission limits (above 1GHz)	Mode1,2,3,4	P PL
Note: Note: And	rupe.	abole

P: Pass

N: N/A, not applicable





Report No.: 18220WC40074704 FCC ID: 2ABC5-E0054 Page 11 of 50

#### 1.8. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### FCC-Registration No.:434132

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 434132.

#### ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

#### **Test Location**

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

#### 1.9. Disclaimer

- The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- The test report is invalid if there is any evidence and/or falsification.
- The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
- Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.







FCC ID: 2ABC5-E0054 18220WC40074704 Page 12 of 50 Report No.:

### 1.10. Test Equipment List

Cond	ucted Emission at A	C power line	Aupo	k hotel	Anbore	Andrek
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
. 1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-01-18	2025-01-17
otek 2	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2024-01-17	2025-01-16
30t	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	Alooiek	Anborek
4	EMI Test Receiver	Rohde & Schwarz	ESPI3	100926	2023-10-12	2024-10-11

Maximum conducted output power

Power spectral density

Emission bandwidth and occupied bandwidth

**Duty Cycle** 

Band edge emissions (Conducted)

	Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
4	Anto	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	potekN/A	2023-10-16	2024-10-15
o <sup>3</sup>	2	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19
17,	3	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
	4	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2024-02-22	2025-02-21
	5	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11
X.E	<b>√</b> 6	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2024-02-04	2025-02-03

Hotline



Report No.: 18220WC40074704 FCC ID: 2ABC5-E0054 Page 13 of 50

O''	adus ansiedians (Da	Distant Aubo	N. Clok	Alloote.	Vur.	- Sporek A
	edge emissions (Ra sirable emission limi		Anbotok	Anborek	Anbore	V
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1 00	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
2	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2024-01-17	2025-01-16
3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
nbote 4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Anbotek	Aupolek
5	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2023-10-12	2024-10-11
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
<sup>1</sup> 2	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2023-05-25	2024-05-24

Unde	sirable emission limit	ts (below 1GHz)				
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
2	Pre-amplifier	SONOMA	310N	186860	2024-01-17	2025-01-16
34	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
40tel	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11
5.nb	EMI Test Software EZ-EMC	SHURPLE	N/A nbor	N/A door	V Vupo	k Anbotek





Report No.: 18220WC40074704 FCC ID: 2ABC5-E0054 Page 14 of 50

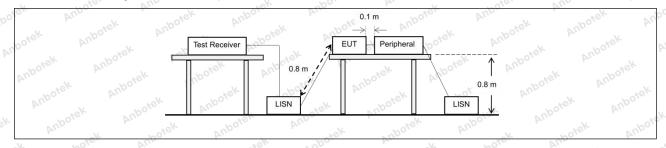
# 2. Conducted Emission at AC power line

Test Requirement:	47 CFR Part 15.207(a)	ek hotek Anb	ote, but
Yung sek spotek	Frequency of emission (MHz)	Conducted limit (dBµV)	hotel Anbe
Anbo, Ai,	And Andrew And	Quasi-peak	Average
K- Lotek Anbo	0.15-0.5	66 to 56*	56 to 46*
Test Limit:	0.5-5 And	56 ° A	46 300 ter
	5-30 And And	60 hotek Anbor	50
otek Anbotek	*Decreases with the logarithm of the	ne frequency.	Anbo
Test Method:	ANSI C63.10-2020 section 6.2	Anbo sek abo	stek Anbore

# 2.1. EUT Operation

Operating Envi	ronment: Anborek Anborek Anborek Anborek
otek Anbotek	1: 802.11a mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is
upose, Aug	recorded in the report. 2: 802.11n mode: Keep the EUT connect to AC power line and works in continuously
	transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of
Test mode:	worst case is recorded in the report.  3: 802.11ac mode: Keep the EUT connect to AC power line and works in
	continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only
	the data of worst case is recorded in the report. 4: 802.11ax mode: Keep the EUT connect to AC power line and works in
	continuously transmitting mode with 802.11ax modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
VII.	the data of worst case is recorded in the report.

# 2.2. Test Setup



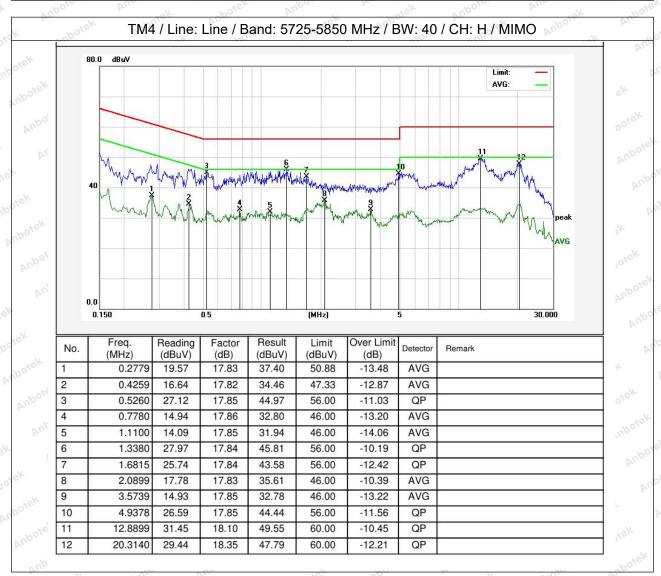




Report No.: 18220WC40074704 FCC ID: 2ABC5-E0054 Page 15 of 50

#### 2.3. Test Data

Temperature: 22.7 °C Humidity: 56.3 % Atmospheric Pres	sure: 101 kPa
--	---------------

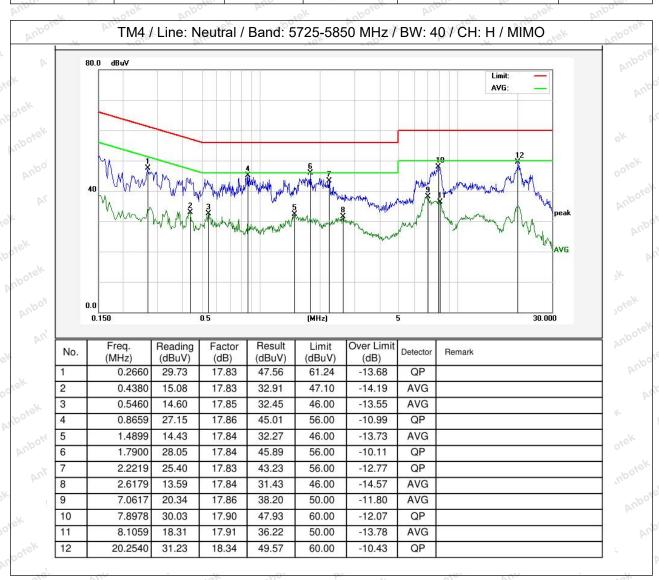






Report No.: 18220WC40074704 FCC ID: 2ABC5-E0054 Page 16 of 50

Temperature: 22.7 °C Humidity: 56.3 % Atmospheric Pressure: 101 kPa



Note: Only record the worst data (802.11ax(HEW40) MIMO) in the report.





Report No.: 18220WC40074704 FCC ID: 2ABC5-E0054 Page 17 of 50

# 3. Duty Cycle

Test Requirement:	All measurements are to be performed with the EUT transmitting at 100% duty cycle at its maximum power control level; however, if 100% duty cycle cannot be achieved, measurements of duty cycle, x, and maximum-power transmission duration, T, are required for each tested mode of operation.
Test Limit:	No limits, only for report use.
Test Method:	ANSI C63.10-2020 section 12.2 (b)
Whotek Whotek	<ul> <li>i) Set the center frequency of the instrument to the center frequency of the transmission.</li> <li>ii) Set RBW &gt;= EBW if possible; otherwise, set RBW to the largest available value.</li> </ul>
Procedure:	iii) Set VBW >= RBW. iv) Set detector = peak.
Hek Anbotek Anb	v) The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T, where T is defined in item a1) of 12.2, and the number of sweep points across duration T exceeds 100.

### 3.1. EUT Operation

The second secon	
Incrating	<b>Environment:</b>
COCIAIIIU	LIIVINOHIIIGHL.

1: 802.11a mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.

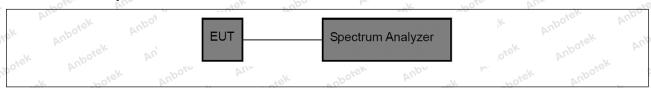
2: 802.11n mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

Test mode:

3: 802.11ac mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

4: 802.11ax mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ax modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

#### 3.2. Test Setup



#### 3.3. Test Data

Please Refer to Appendix for Details.







Report No.: 18220WC40074704 FCC ID: 2ABC5-E0054 Page 18 of 50

# 4. Maximum conducted output power

	For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.
Test Limit:	If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
hootek Anbotek	However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems,
	omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
Test Method:	ANSI C63.10-2013, section 12.4
Procedure:	Refer to ANSI C63.10-2020 section 12.4

# 4.1. EUT Operation

V.	Operating Envir	onment:
,01	ek Anbolek	1: 802.11a mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and
20	potek Anbotek	found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.
	Anbotek Anbo	2: 802.11n mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of
4	Test mode:	worst case is recorded in the report.  3: 802.11ac mode: Keep the EUT connect to AC power line and works in
075		continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only
10.	otek Anbot	the data of worst case is recorded in the report. 4: 802.11ax mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ax modulation type. All bandwidth and
	Aupotek Au	data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

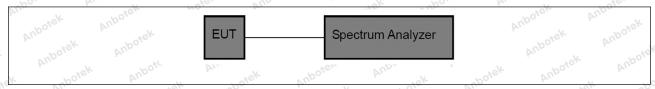






Report No.: 18220WC40074704 FCC ID: 2ABC5-E0054 Page 19 of 50

#### 4.2. Test Setup



#### 4.3. Test Data

· - · · · · · · · · · · · · · · · · · ·	04.0.00	11 . 114	40.0000	All I D Sier	404 LD
Temperature:	24.3 °C	Humidity:	49 %	Atmospheric Pressure:	101 kPa

Please Refer to Appendix for Details.





Report No.: 18220WC40074704 FCC ID: 2ABC5-E0054 Page 20 of 50

# 5. Power spectral density

Procedure:	Refer to ANSI C63.10-2020, section 12.6
Test Method:	ANSI C63.10-2020, section 12.6
otek Anbotek	the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power.  Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
Test Limit:	For the band 5.725-5.850 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.  If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that
Anborek Anborek Anborek Anborek	For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.  If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
Test Requirement:	47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(3)(i)

# 5.1. EUT Operation

Operating Envi	ronment:
Test mode:	1: 802.11a mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.  2: 802.11n mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.  3: 802.11ac mode: Keep the EUT connect to AC power line and works in
Anbotek Anbotek	continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.  4: 802.11ax mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ax modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

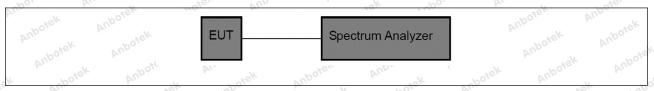






Report No.: 18220WC40074704 FCC ID: 2ABC5-E0054 Page 21 of 50

#### 5.2. Test Setup



#### 5.3. Test Data

Temperature:	24.3 °C	Humidity:	49 %	Atmospheric Pressure:	101 kPa
Tollip Gratal G.	= 110 O	i i di i ii di i i j	10 1/0	/ tarrioopriorio i roccaro.	1011111

Please Refer to Appendix for Details.





Report No.: 18220WC40074704 FCC ID: 2ABC5-E0054 Page 22 of 50

# 6. Emission bandwidth and occupied bandwidth

hotek Anbotek	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use.
Test Requirement:	Aupo. W. Yek Upole. Aur. K notek Vupol.
Anboten Anbo	U-NII 3, U-NII 4: 47 CFR Part 15.407(e)
Anbotek Anbo	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use.
Test Limit:	More Plant Skind Thotal Plant Comment of the State of Subout Skind State of Subout Skind State of Subout Skind Ski
HOR ANDO	U-NII 3, U-NII 4: Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands,
ok spoten	the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.
Test Method:	ANSI C63.10-2020, section 6.9 & 12.5 KDB 789033 D02, Clause C.2
bu. sek upotes.	Emission bandwidth:
	a) Set RBW = approximately 1% of the emission bandwidth.
	b) Set the VBW > RBW.
	c) Detector = peak.
	d) Trace mode = max hold.
	e) Measure the maximum width of the emission that is 26 dB down from the
	peak of the emission.
	Compare this with the RBW setting of the instrument. Readjust RBW and
	- 10, YUA - 10,
	repeat measurement
	as needed until the RBW/EBW ratio is approximately 1%.
	And the state of t
	Occupied bandwidth:
	a) The instrument center frequency is set to the nominal EUT channel center
	frequency. The
	frequency span for the spectrum analyzer shall be between 1.5 times and
	5.0 times the OBW.
	b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to
	5% of the OBW,
	and VBW shall be approximately three times the RBW, unless otherwise
Procedure:	specified by the
i i sopuuio.	applicable requirement.
	c) Set the reference level of the instrument as required, keeping the signal
	from exceeding the
	maximum input mixer level for linear operation. In general, the peak of the
	spectral envelope
	shall be more than [10 log (OBW/RBW)] below the reference level. Specific
	guidance is given
	in 4.1.5.2.
aborer And	d) Step a) through step c) might require iteration to adjust within the
by.	specified range.
	e) Video averaging is not permitted. Where practical, a sample detection and
	single sweep mode
yer Aup	shall be used. Otherwise, peak detection and max hold mode (until the trace
	stabilizes) shall be
	used.
	f) Use the 99% power bandwidth function of the instrument (if available) and
aboter Ande	report the measured
	bandwidth.
	g) If the instrument does not have a 99% power bandwidth function, then the
	trace data points are









Report No.: 18220WC40074704 FCC ID: 2ABC5-E0054 Page 23 of 50

recovered and directly summed in linear power terms. The recovered amplitude data points,

beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached:

that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the

total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is

the difference between these two frequencies.

h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument

display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may

be reported in addition to the plot(s).

6 dB emission bandwidth:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) ≥ 3 >= RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

#### 6.1. EUT Operation

#### Operating Environment:

1: 802.11a mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.

2: 802.11n mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

Test mode:

3: 802.11ac mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

4: 802.11ax mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ax modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.



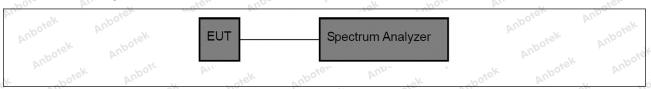






Report No.: 18220WC40074704 FCC ID: 2ABC5-E0054 Page 24 of 50

#### 6.2. Test Setup



#### 6.3. Test Data

Temperature:	24.3 °C	Humidity:	49 %	Atmospheric Pressure:	101 kPa
Tollip Gratal G.	= 110 O	i i di i ii di i i j	10 1/0	/ tarrioopriorio i roccaro.	1011111

Please Refer to Appendix for Details.





Report No.: 18220WC40074704 FCC ID: 2ABC5-E0054 Page 25 of 50

# 7. Band edge emissions (Radiated)

hotek Anba	47 CFR Part 15.407(b			
st Requirement:	47 CFR Part 15.407(b	W.) " O		
Aupole, Aug	47 CFR Part 15.407(b	)(10)	Anbore. A	, ok
potek Anbor	For transmitters opera	ting in the 5.15-5.25	GHz band: All en	nissions outsid
And	of the 5.15-5.35 GHz k	oand shall not exceed	l an e.i.r.p. of −2	7 dBm/MHz.
Anbore An				
ok hotek	For transmitters opera			
Ve. Vun	All emissions shall be			
botek Anbore	above or below the ba			
is abotek	above or below the ba	.0.1"		
Anbore And	edge increasing linear below the band edge,			
hotek Anbor	increasing linearly to a			
Aug Sek	MHz	MHz	MHz	
Anbore Air		177.	- AV	GHZ
ok hotek	0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
An	10.495-0.505	16.69475- 16.69525	608-614	5.35-5.46
otek Anbore	2.1735-2.1905	16.80425-	960-1240	7.25-7.75
ok botek	2.1733-2.1903	16.80475	900-1240	1.25-1.15 Anbo
Aupore Aur	4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
botek Anbors	4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
Anu ok be	4.20725-4.20775	73-74.6	1645.5-	9.3-9.5
Anbore And	Lotek Anbore.	Yun rek spotel	1646.5	K. Siek
ik upoter A	6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
st Limit:	6.26775-6.26825	108-121.94	1718.8- 1722.2	13.25-13.4
St Lillit.	6.31175-6.31225	123-138	2200-2300	14.47-14.5
Aupore Aur	8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
Anbotek Anbot	8.362-8.366	156.52475- 156.52525	2483.5-2500	17.7-21.4
Anbore. And	8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
h hotek ar	8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
And	12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
otek unbote.	12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
, h. Joseph	12.57675-12.57725	322-335.4	3600-4400	(2) Anbor
aboten And	13.36-13.41	bi.	"poier Vup.	
itek anboter				
Aupo. A.	<sup>1</sup> Until February 1, 1999	9, this restricted band	l shall be 0.490-0	0.510 MHz.
anboter Anbo		'upo, Air		
bi.	<sup>2</sup> Above 38.6			
Yupo, W.				
ek abojek	The field strength of er			
br.	not exceed the limits s			
polek Aupo.	1000 MHz, compliance			
*ek ~potek	using measurement in			
MOJ. WILL	detector. Above 1000 I			
And	15.209shall be demon	. V. 14.01	- PAT	e 41 1/20









Report No.: 18220WC40074704 FCC ID: 2ABC5-E0054 Page 26 of 50

Except as provided elsewhe	ere in this subp	art, the em	issions fr	om an	V
intentional radiator shall not	t exceed the fie	ld strength	levels sp	ecified in	the
following table:	Anb	botek		br.	ate!

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300 John 1
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30 And	30 anbor
30-88	100 **	3 hotek
88-216	150 **	3 400
216-960	200 **	3,ek anbore
Above 960	500 Ar	3

<sup>\*\*</sup> Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.

In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

#### Test Method:

ANSI C63.10-2020, section 12.7.4, 12.7.6, 12.7.7

#### Above 1GHz:

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. 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 antenna height 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) 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 Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case

### Procedure:

#### **Shenzhen Anbotek Compliance Laboratory Limited**





Report No.: 18220WC40074704 Page 27 of 50 FCC ID: 2ABC5-E0054

- i. Repeat above procedures until all frequencies measured was complete. Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- 4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

#### 7.1. EUT Operation

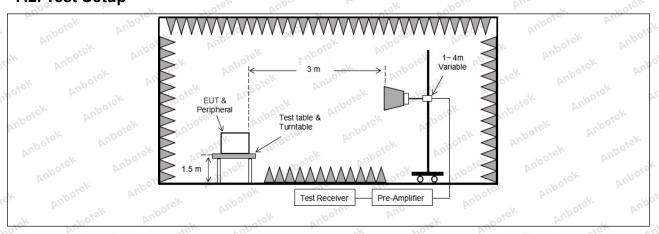
#### Operating Environment:

- 1: 802.11a mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.
- 2: 802.11n mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

Test mode:

- 3: 802.11ac mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
- 4: 802.11ax mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ax modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

#### 7.2. Test Setup











Report No.: 18220WC40074704 FCC ID: 2ABC5-E0054 Page 28 of 50

#### 7.3. Test Data

Temperature: 24.3 °C	Humidity: 49 %	Atmospheric Pressure:	101 kPa
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		TM1 / B	and: 5150-52	250 MHz / BV	W: 20 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	36.97	15.99 M	52.96	68.20	-15.24	workH A	Peak
5150.00	39.04	15.99	55.03	68.20	-13.17	V.	Peak
5150.00	26.91	15.99	42.90	54.00	-11.10	Anto Hick	AVG
5150.00	28.96	15.99	44.95	54.00	-9.05	Vub.	AVG
		TM1 / B	and: 5150-52	250 MHz / BV	V: 20 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5250.00	37.42	16.43	53.85	68.20	-14.35	H	Peak
5250.00	40.36	16.43	56.79	68.20	-11.41	AUD NOK	Peak
5250.00	28.74	16.43	45.17	54.00	-8.83	Pull I	AVG
5250.00	29.64	16.43	46.07	54.00	-7.93	Kpoter	AVG

#### Remark:

- 1. Result=Reading + Factor
- 2. During the test, all antenna chains has been tested, and only worst case (ANT1) data is listed in the report.

- WV	544 -	_(0)	V U.A.		WA	P	
		TM2 / B	and: 5150-52	250 MHz / BV	N: 20 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	35.92	15.99	51.91	68.20	-16.29	HANDO.	Peak
5150.00	37.31 And	15.99	ote 53.30 And	68.20	-14.90	potek V Anb	Peak
5150.00	26.64	15.99	42.63	54.00	-11.37	nboteH R	AVG
5150.00	27.63	15.99	43.62	54.00	-10.38	No Ask	AVG
		TM2 / B	and: 5150-52	250 MHz / BV	V: 20 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5250.00	37.74	16.43	ote <sup>k</sup> 54.17 pm	68.20	-14.03	otek H Aup	Peak
5250.00	38.78	16.43	55.21	68.20	-12.99	shotekV A	Peak
5250.00	27.77	16.43	44.20	54.00	-9.80	M. HA	AVG
5250.00	29.22	16.43	45.65	54.00	-8.35	YUR AFEK	AVG
-01-	200	N	1-0%	VU.	104	/00	V. V.

- 1. Result=Reading + Factor
- 2. During the test, SISO and MIMO modes have been tested, and only worst case (MIMO) data is listed in the report.









Report No.: 18220WC40074704 FCC ID: 2ABC5-E0054 Page 29 of 50

40.	TOUR ALL		VICK V	Upo L.	Yo.	"POLO	111.
		TM2 / B	and: 5150-52	250 MHz / BV	V: 40 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	36.46	15.99	52.45	68.20	-15.75	k Hupotei	Peak
5150.00	38.31 not	15.99	54.30	68.20	-13.90	otek V Anbo	Peak
5150.00	27.03	15.99	43.02	54.00	-10.98	- otek H	AVG
5150.00	28.74	15.99	44.73	54.00	-9.27	V.	AVG
		TM2 / B	and: 5150-52	250 MHz / BV	V: 40 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5250.00	38.07	16.43	54.50	68.20	-13.70	tek H noo	Peak
5250.00	36.94	16.43 nb°	53.37	68.20	-14.83	V V	Peak
5250.00	28.28	16.43	44.71	54.00	-9.29	H by	AVG
5250.00	29.48	16.43	45.91	54.00	-8.09	Anbord	AVG

#### Remark:

- 1. Result=Reading + Factor
- 2. During the test, SISO and MIMO modes have been tested, and only worst case (MIMO) data is listed in the report.

	740. VUA		<u> </u>	70. k.		-46. VU	
		TM3 / B	and: 5150-52	250 MHz / BV	V: 20 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	36.92	15.99	52.91	68.20	-15.29	Hotek	Peak
5150.00	38.67	15.99	54.66	68.20	-13.54	V V vote	Peak
5150.00	26.55	15.99	42.54	54.00	-11.46	Lek H	otek AVG pribo
5150.00	28.74	od 15.99 Ad	44.73	54.00	-9.27	V V	AVG
		TM3 / B	and: 5150-52	250 MHz / BV	V: 20 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5250.00	37.87	16.43	54.30	68.20	-13.90	K H botel	Peak
5250.00	38.12	16.43	54.55	68.20	-13.65	V	rek Peak noot
5250.00	27.78	16.43	otek 44.21 pnbc	54.00	ore -9.79 And	of H And	AVG
5250.00	28.34	16.43	44.77	54.00	-9.23	nbotek A	AVG

- 1. Result=Reading + Factor
- 2. During the test, SISO and MIMO modes have been tested, and only worst case (MIMO) data is listed in the report.









Report No.: 18220WC40074704 FCC ID: 2ABC5-E0054 Page 30 of 50

	184	,	40.	Po, by.		yer.
	TM3 / B	and: 5150-52	250 MHz / BV	V: 40 / L		
Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
35.87	15.99	51.86	68.20	-16.34	HA H	Peak
36.32	15.99	52.31	68.20	-15.89	Nupp.	Peak
26.05	15.99	42.04	54.00	-11.96 NO	otek H Anbo	AVG
26.79	15.99	42.78	54.00	-11.22	nbotek V A	AVG
	TM3 / B	and: 5150-52	250 MHz / BV	V: 40 / H		
Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
38.02	16.43	54.45	68.20	-13.75	H <sup>nb</sup>	Peak
37.17	16.43	53.60	68.20	-14.60	tek A Vupo,	Peak
27.48	16.43	43.91	54.00	-10.09	hotek H An	AVG
27.45	16.43	43.88	54.00	-10.12	V	AVG
	(dBuV) 35.87 36.32 26.05 26.79  Reading (dBuV) 38.02 37.17 27.48	Reading (dBuV) (dB/m)  35.87 15.99  36.32 15.99  26.05 15.99  26.79 15.99  TM3 / B  Reading (dBuV) (dB/m)  38.02 16.43  37.17 16.43  27.48 16.43	Reading (dBuV)         Factor (dB/m)         Result (dBuV/m)           35.87         15.99         51.86           36.32         15.99         52.31           26.05         15.99         42.04           26.79         15.99         42.78           TM3 / Band: 5150-52           Reading (dBuV)         Factor (dB/m)         Result (dBuV/m)           38.02         16.43         54.45           37.17         16.43         53.60           27.48         16.43         43.91	Reading (dBuV)         Factor (dB/m)         Result (dBuV/m)         Limit (dBuV/m)           35.87         15.99         51.86         68.20           36.32         15.99         52.31         68.20           26.05         15.99         42.04         54.00           TM3 / Band: 5150-5250 MHz / BV           Reading (dBuV)         Factor (dB/m)         Result (dBuV/m)         Limit (dBuV/m)           38.02         16.43         54.45         68.20           37.17         16.43         53.60         68.20           27.48         16.43         43.91         54.00	(dBuV)         (dB/m)         (dBuV/m)         (dBuV/m)         (dBuV/m)         (dB)           35.87         15.99         51.86         68.20         -16.34           36.32         15.99         52.31         68.20         -15.89           26.05         15.99         42.04         54.00         -11.96           26.79         15.99         42.78         54.00         -11.22           TM3 / Band: 5150-5250 MHz / BW: 40 / H           Reading (dBuV)         Factor (dB/m)         Result (dBuV/m)         Cover limit (dBuV/m)           (dBuV)         (dB/m)         54.45         68.20         -13.75           37.17         16.43         53.60         68.20         -14.60           27.48         16.43         43.91         54.00         -10.09	Reading (dBuV)         Factor (dB/m)         Result (dBuV/m)         Limit (dBuV/m)         Over limit (dB)         Antenna Pol.           35.87         15.99         51.86         68.20         -16.34         H           36.32         15.99         52.31         68.20         -15.89         V           26.05         15.99         42.04         54.00         -11.96         H           26.79         15.99         42.78         54.00         -11.22         V           TM3 / Band: 5150-5250 MHz / BW: 40 / H           Reading (dBuV) (dB/m) (dB/m) (dB/m) (dBuV/m) (dBuV/m) (dB)         Over limit (dBuV/m) Pol.         Antenna Pol.           38.02         16.43         54.45         68.20         -13.75         H           37.17         16.43         53.60         68.20         -14.60         V           27.48         16.43         43.91         54.00         -10.09         H

#### Remark:

- 1. Result=Reading + Factor
- During the test, SISO and MIMO modes have been tested, and only worst case (MIMO) data is listed in the report.

250	V U.	TM3 / B	and: 5150-52	250 MHz / BV	V: 80 / L	V 1/2	
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	36.01	15.99	52.00	68.20	-16.20	Hek	Peak
5150.00	36.41	15.99	52.40	68.20	-15.80	Votek	Peak
5150.00	26.55	15.99	42.54	54.00	-11.46	H hotel	AVG
5150.00	26.82	15.99	42.81	54.00	-11.19 <sup>1000</sup>	V	otel AVG prob
		TM3 / B	and: 5150-52	250 MHz / BV	V: 80 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5250.00	38.27	16.43	54.70	68.20	-13.50	Hotek	Peak
5250.00	37.42	16.43	53.85	68.20	-14.35	V	Peak
5250.00	28.76	16.43	45.19	54.00	e -8.81 <sub>0</sub> 00t€	Hyppo	AVG
5250.00	28.09	16.43	44.52	54.00	-9.48	otek V Anbe	AVG

- 1. Result=Reading + Factor
- During the test, SISO and MIMO modes have been tested, and only worst case (MIMO) data is listed in the report.







Report No.: 18220WC40074704 FCC ID: 2ABC5-E0054 Page 31 of 50

		2				
	TM4 / B	and: 5150-52	250 MHz / BV	V: 20 / L		
Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
36.98	15.99	52.97	68.20	-15.23	HA H	Peak
38.74	15.99	54.73	68.20	-13.47	Nupp.	Peak
26.58	15.99	42.57	54.00	-11.43	otek H Anbo	AVG
28.79	15.99	44.78	54.00	-9.22	nbotek V A	AVG
	TM4 / B	and: 5150-52	250 MHz / BV	V: 20 / H		
Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
37.90	16.43	54.33	68.20	-13.87	H <sup>nb</sup>	Peak
38.15	16.43	54.58	68.20	-13.62	tek A Vupo	Peak
27.82 NO	16.43	44.25	54.00	-9.75	hotek H An	AVG
28.40	16.43	44.83	54.00	-9.17	V	AVG
	(dBuV) 36.98 38.74 26.58 28.79  Reading (dBuV) 37.90 38.15 27.82	Reading (dBuV) (dB/m)  36.98 15.99  38.74 15.99  26.58 15.99  28.79 15.99  TM4 / B  Reading (dBuV) (dB/m)  37.90 16.43  38.15 16.43  27.82 16.43	Reading (dBuV)         Factor (dB/m)         Result (dBuV/m)           36.98         15.99         52.97           38.74         15.99         54.73           26.58         15.99         42.57           28.79         15.99         44.78           TM4 / Band: 5150-52           Reading (dBuV)         Factor (dB/m)         Result (dBuV/m)           37.90         16.43         54.33           38.15         16.43         54.58           27.82         16.43         44.25	Reading (dBuV)         Factor (dB/m)         Result (dBuV/m)         Limit (dBuV/m)           36.98         15.99         52.97         68.20           38.74         15.99         54.73         68.20           26.58         15.99         42.57         54.00           28.79         15.99         44.78         54.00           TM4 / Band: 5150-5250 MHz / BV           Reading (dBuV)         Result (dBuV/m)         Limit (dBuV/m)           37.90         16.43         54.33         68.20           38.15         16.43         54.58         68.20           27.82         16.43         44.25         54.00	(dBuV)         (dB/m)         (dBuV/m)         (dBuV/m)         (dB)           36.98         15.99         52.97         68.20         -15.23           38.74         15.99         54.73         68.20         -13.47           26.58         15.99         42.57         54.00         -11.43           28.79         15.99         44.78         54.00         -9.22           TM4 / Band: 5150-5250 MHz / BW: 20 / H           Reading (dBuV)         Factor (dB/m)         Result (dBuV/m)         Limit (dBuV/m)         Over limit (dB)           37.90         16.43         54.33         68.20         -13.87           38.15         16.43         54.58         68.20         -13.62           27.82         16.43         44.25         54.00         -9.75	Reading (dBuV)         Factor (dB/m)         Result (dBuV/m)         Limit (dBuV/m)         Over limit (dB)         Antenna Pol.           36.98         15.99         52.97         68.20         -15.23         H           38.74         15.99         54.73         68.20         -13.47         V           26.58         15.99         42.57         54.00         -11.43         H           28.79         15.99         44.78         54.00         -9.22         V           TM4 / Band: 5150-5250 MHz / BW: 20 / H           Reading (dBuV)         Result (dBuV/m)         Cover limit (dBuV/m)         Antenna Pol.           37.90         16.43         54.33         68.20         -13.87         H           38.15         16.43         54.58         68.20         -13.62         V           27.82         16.43         44.25         54.00         -9.75         H

#### Remark:

- 1. Result=Reading + Factor
- During the test, SISO and MIMO modes have been tested, and only worst case (MIMO) data is listed in the report.

		TM4 / B	and: 5150-52	250 MHz / BV	V: 40 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	35.92	15.99	51.91	68.20	-16.29	An Pie	Peak
5150.00	36.36	15.99	52.35	68.20	-15.85	Noose	Peak
5150.00	26.13	15.99	42.12	54.00	-11.88	sk H <sup>Vu</sup> po <sub>te</sub>	AVG
5150.00	26.84	15.99	42.83	54.00 mb°	-11.17	otek V Anb	AVG
		TM4 / B	and: 5150-52	250 MHz / BV	V: 40 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5250.00	38.07	16.43	54.50	68.20	-13.70	AH <sup>oro</sup>	Peak
5250.00	37.20	16.43	53.63	68.20	-14.57	k Nupote	Peak
5250.00	27.51	16.43	43.94	54.00	-10.06	ek H	AVG AVG
5250.00	27.52	16.43	43.95	54.00	-10.05	V Prince	AVG

- 1. Result=Reading + Factor
- During the test, SISO and MIMO modes have been tested, and only worst case (MIMO) data is listed in the report.







Report No.: 18220WC40074704 FCC ID: 2ABC5-E0054 Page 32 of 50

		TM4 / B	and: 5150-52	250 MHz / BV	N: 80 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	36.04	15.99	52.03	68.20	-16.17	PH	Peak
5150.00	36.48	15.99	52.47	68.20	-15.73	Nupo,	Peak
5150.00	26.62	15.99	42.61	54.00	-11.39	otek H Anbo	AVG
5150.00	26.87 M	15.99	42.86	54.00	-11.14	nbotek V Ar	AVG
		TM4 / B	and: 5150-52	250 MHz / BV	V: 80 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5250.00	38.34	16.43	54.77	68.20	-13.43	Hup	Peak
5250.00	37.47	16.43	53.90	68.20	-14.30	ick A Vupo	Peak
5250.00	28.84	16.43	45.27	54.00	-8.73	Lotek H An	AVG ANG
5250.00	28.14	16.43	44.57	54.00	-9.43	V	AVG

- 1. Result=Reading + Factor
- 2. During the test, SISO and MIMO modes have been tested, and only worst case (MIMO) data is listed in the report.





Report No.: 18220WC40074704 FCC ID: 2ABC5-E0054 Page 33 of 50

	181	,	40.	Po, by		yer.
	TM1 / B	and: 5725-58	350 MHz / BV	V: 20 / L		
Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
38.22	16.37	54.59	68.20	-13.61	PH	Peak
39.62	16.37	55.99	68.20	-12.21	Nupp.	Peak
29.07	16.70	45.77 And	54.00	sek-8.23 mb	otek H Anbo	AVG
30.19	16.70	46.89	54.00	-7.11	nbotek V A	AVG
	TM1 / B	and: 5725-58	350 MHz / BV	V: 20 / H		
Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
39.18	17.21	56.39	68.20	-11.81	H <sup>nb</sup>	Peak
39.55	17.21	56.76	68.20	-11.44	tek A Vupo,	Peak
29.15	17.21 <sup>And</sup>	46.36	54.00	-7.64	hotek H An	AVG
29.16	17.21	46.37	54.00	-7.63	V	AVG
	(dBuV) 38.22 39.62 29.07 30.19  Reading (dBuV) 39.18 39.55 29.15	Reading (dBuV) (dB/m)  38.22 16.37  39.62 16.37  29.07 16.70  30.19 16.70  TM1 / B  Reading (dBuV) (dB/m)  39.18 17.21  39.55 17.21  29.15 17.21	Reading (dBuV)         Factor (dB/m)         Result (dBuV/m)           38.22         16.37         54.59           39.62         16.37         55.99           29.07         16.70         45.77           30.19         16.70         46.89           TM1 / Band: 5725-58           Reading (dBuV)         Factor (dB/m)         Result (dBuV/m)           39.18         17.21         56.39           39.55         17.21         56.76           29.15         17.21         46.36	Reading (dBuV)         Factor (dB/m)         Result (dBuV/m)         Limit (dBuV/m)           38.22         16.37         54.59         68.20           39.62         16.37         55.99         68.20           29.07         16.70         45.77         54.00           TM1 / Band: 5725-5850 MHz / BV           Reading (dBuV)         Factor (dB/m)         Result (dBuV/m)         Limit (dBuV/m)           39.18         17.21         56.39         68.20           39.55         17.21         56.76         68.20           29.15         17.21         46.36         54.00	(dBuV)         (dB/m)         (dBuV/m)         (dBuV/m)         (dB)           38.22         16.37         54.59         68.20         -13.61           39.62         16.37         55.99         68.20         -12.21           29.07         16.70         45.77         54.00         -8.23           30.19         16.70         46.89         54.00         -7.11           TM1 / Band: 5725-5850 MHz / BW: 20 / H           Reading (dBuV)         Factor (dB/m)         Result (dBuV/m)         Limit (dBuV/m)         Over limit (dB)           39.18         17.21         56.39         68.20         -11.81           39.55         17.21         56.76         68.20         -11.44           29.15         17.21         46.36         54.00         -7.64	Reading (dBuV)         Factor (dB/m)         Result (dBuV/m)         Limit (dBuV/m)         Over limit (dB)         Antenna Pol.           38.22         16.37         54.59         68.20         -13.61         H           39.62         16.37         55.99         68.20         -12.21         V           29.07         16.70         45.77         54.00         -8.23         H           30.19         16.70         46.89         54.00         -7.11         V           TM1 / Band: 5725-5850 MHz / BW: 20 / H           Reading (dBuV) (dB/m) (dB/m) (dB/m) (dBuV/m) (dB)         Over limit (dBuV/m) (dB)         Antenna Pol.           39.18         17.21         56.39         68.20         -11.81         H           39.55         17.21         56.76         68.20         -11.44         V           29.15         17.21         46.36         54.00         -7.64         H

#### Remark:

- 1. Result=Reading + Factor
- 2. During the test, all antenna chains has been tested, and only worst case (ANT2) data is listed in the report.

		TM2 / B	and: 5725-58	350 MHz / BV	V: 20 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5725.00	38.20	17.05	55.25	68.20	-12.95	An Pie	Peak
5725.00	38.79	17.05	55.84	68.20	-12.36	Noose	Peak
5725.00	27.62	17.05	44.67	54.00	-9.33	ek H <sub>Anbote</sub>	AVG
5725.00	28.17 <sub>xx</sub>	17.05	45.22	54.00	-8.78	otek V Anb	AVG
		TM2 / B	and: 5725-58	350 MHz / BV	V: 20 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5850.00	37.42	17.21	54.63	68.20	-13.57	AHOTE .	Peak
5850.00	38.01	17.21	55.22	68.20	-12.98	k Vupote	Peak
5850.00	27.70	17.21	44.91	54.00	-9.09	, H you	AVG AVG
5850.00	28.51	17.21	45.72	54.00	-8.28	V	AVG

- 1. Result=Reading + Factor
- During the test, SISO and MIMO modes have been tested, and only worst case (MIMO) data is listed in the report.







Report No.: 18220WC40074704 FCC ID: 2ABC5-E0054 Page 34 of 50

1/2.	POL VII	N	VISI VI	Up	You	-10010 F	711.
		TM2 / B	and: 5725-58	350 MHz / BV	V: 40 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5725.00	37.78	17.05	54.83	68.20	-13.37	k Hupotei	Peak
5725.00	38.67	17.05	55.72	68.20 68	-12.48	otek V Anb	Peak
5725.00	27.09	17.05	44.14	54.00	-9.86	Harry	AVG
5725.00	28.42	17.05	45.47	54.00	-8.53	V.	AVG
		TM2 / B	and: 5725-58	350 MHz / BV	V: 40 / H	, , , , , , , , , , , , , , , , , , , ,	
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5850.00	38.14 o <sup>16</sup>	17.21	55.35	68.20	-12.85	tek H No	Peak
5850.00	38.51	17.21 And	55.72	68.20	-12.48	V V	Peak M
5850.00	28.32	17.21	45.53	54.00	-8.47	Vpc. H	AVG
5850.00	29.39	17.21	46.60	54.00	-7.40	Anbord	AVG

Remark: 1. Result=Reading + Factor

		TM3 / B	and: 5725-58	850 MHz / BV	V: 20 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5725.00	37.41	17.05	54.46	68.20	-13.74	Anbore H	Peak
5725.00	37.55	17.05	54.60	68.20	-13.60	No Nok	Peak
5725.00	28.32	17.05	45.37	54.00	-8.63	Horek	AVG
5725.00	29.15	17.05	46.20	54.00	-7.80	ek V noore	AVG
		TM3 / B	and: 5725-58	350 MHz / BV	V: 20 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5850.00	38.15	17.21	55.36	68.20	-12.84	NO HOL	Peak
5850.00	39.03	17.21	56.24	68.20	-11.96	Votek	Peak
5850.00	28.02	17.21	45.23	54.00	-8.77	H del	AVG
5850.00	29.11	17.21	46.32	54.00	-7.68 <sub>000</sub> 16	VARRE	AVG

- 1. Result=Reading + Factor
  - 2. During the test, SISO and MIMO modes have been tested, and only worst case (MIMO) data is listed in the report.







Report No.: 18220WC40074704 FCC ID: 2ABC5-E0054 Page 35 of 50

		TM3 / B	and: 5725-58	350 MHz / BV	V: 40 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5725.00	36.36	17.05	53.41	68.20	-14.79	PH	Peak
5725.00	37.86	17.05	54.91	68.20	-13.29	Nupp.	Peak
5725.00	27.60	17.05	44.65	54.00	, ek-9.35	otek H Anbo	AVG
5725.00	28.28	17.05	45.33	54.00	-8.67	nbotek V A	AVG
		TM3 / B	and: 5725-58	350 MHz / BV	V: 40 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5850.00	37.70	17.21	54.91	68.20	-13.29	Hup	Peak
5850.00	38.55	17.21	55.76 NO	68.20	-12.44	tek A Vupo,	Peak
5850.00	ote 27.71 And	17.21 17.21 17.21 17.21 17.21 17.21 17.21 17.21 17.21 17.21 17.21 17.21 17.21	44.92	54.00	-9.08	hotek H An	AVG AVG
5850.00	27.34	17.21	44.55	54.00	-9.45	V	AVG
	. 100		740	V (1)-	- 0/2	- 100	1.

Remark: 1. Result=Reading + Factor

	014.	-0.1	~0~	V		DI.	-67
		TM3 / B	and: 5725-58	350 MHz / BV	V: 80 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5725.00	35.63 Maria	17.05	52.68	68.20 And	-15.52	botek H Ant	Peak
5725.00	37.17	17.05	54.22	68.20	-13.98	onbore\(\forall \)	Peak
5725.00	26.67	17.05	43.72	54.00	-10.28	Hek	AVG
5725.00	27.22	17.05	44.27	54.00	-9.73	Votek	AVG
		TM3 / B	and: 5725-58	850 MHz / BV	V: 80 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5850.00	37.69	17.21	54.90	68.20	-13.30	nboteH p	Peak
5850.00	37.97	17.21	55.18	68.20	-13.02	N. N.	Peak
5850.00	28.10	17.21	45.31	54.00	-8.69	Pur H Jek	AVG
5850.00	28.34	17.21	45.55	54.00	-8.45	AV	AVG

- 1. Result=Reading + Factor
- 2. During the test, SISO and MIMO modes have been tested, and only worst case (MIMO) data is listed in the report.







Report No.: 18220WC40074704 FCC ID: 2ABC5-E0054 Page 36 of 50

O. D.		464	,	40.	Po, by		ALC:
		TM4 / B	and: 5725-58	350 MHz / BV	V: 20 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5725.00	37.45	17.05	54.50	68.20	-13.70	HA H	Peak
5725.00	37.57	17.05	54.62	68.20	-13.58	Nupp.	Peak
5725.00	28.35	17.05	45.40	54.00	-8.60 M	otek H Anbo	AVG
5725.00	29.19	17.05	46.24	54.00	-7.76	nbotek V A	AVG
		TM4 / B	and: 5725-58	50 MHz / BV	V: 20 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5850.00	38.19	17.21	55.40	68.20	-12.80	H <sup>nb</sup>	Peak
5850.00	39.06	17.21	56.27	68.20	-11.93	tek A Vupo	Peak
5850.00	28.05	17.21 <sup>And</sup>	45.26	54.00	-8.74	notek H An	AVG
5850.00	29.15	17.21	46.36	54.00	7.64	V	AVG

Remark: 1. Result=Reading + Factor

507	TM4 / B	and: 5725-58	350 MHz / BV	V: 40 / L	200	
Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
36.39	17.05	53.44	68.20	-14.76	H VIII	Peak
37.89	17.05	54.94	68.20	-13.26	AnborV	Peak
27.63	17.05	44.68	54.00	-9.32	AnbAt	AVG
28.31	17.05	45.36	54.00	-8.64	Voores	AVG
	TM4 / B	and: 5725-58	350 MHz / BV	V: 40 / H		
Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
37.73	17.21	54.94	68.20	-13.26	Aupo, H	Peak
38.59	17.21	55.80	68.20	-12,40	AUP	Peak
27.74	17.21	44.95	54.00	-9.05	Hotek	AVG
27.38	17.21	44.59	54.00	-9.41	k V potel	AVG
	(dBuV) 36.39 37.89 27.63 28.31  Reading (dBuV) 37.73 38.59 27.74	Reading (dBuV) (dB/m) 36.39 17.05 37.89 17.05 27.63 17.05 28.31 17.05  TM4 / B  Reading (dBuV) (dB/m) 37.73 17.21 38.59 17.21 27.74 17.21	Reading (dBuV)         Factor (dB/m)         Result (dBuV/m)           36.39         17.05         53.44           37.89         17.05         54.94           27.63         17.05         44.68           28.31         17.05         45.36           TM4 / Band: 5725-58           Reading (dBuV)         Factor (dB/m)         Result (dBuV/m)           37.73         17.21         54.94           38.59         17.21         55.80           27.74         17.21         44.95	Reading (dBuV)         Factor (dB/m)         Result (dBuV/m)         Limit (dBuV/m)           36.39         17.05         53.44         68.20           37.89         17.05         54.94         68.20           27.63         17.05         44.68         54.00           28.31         17.05         45.36         54.00           TM4 / Band: 5725-5850 MHz / BV           Reading (dBuV)         Result (dBuV/m)         Limit (dBuV/m)           37.73         17.21         54.94         68.20           38.59         17.21         55.80         68.20           27.74         17.21         44.95         54.00	(dBuV)         (dB/m)         (dBuV/m)         (dBuV/m)         (dB)           36.39         17.05         53.44         68.20         -14.76           37.89         17.05         54.94         68.20         -13.26           27.63         17.05         44.68         54.00         -9.32           28.31         17.05         45.36         54.00         -8.64           TM4 / Band: 5725-5850 MHz / BW: 40 / H           Reading (dBuV)         Factor (dB/m)         Result (dBuV/m)         Cover limit (dBuV/m)           (dBuV)         (dB/m)         68.20         -13.26           37.73         17.21         54.94         68.20         -13.26           38.59         17.21         55.80         68.20         -12.40           27.74         17.21         44.95         54.00         -9.05	Reading (dBuV)         Factor (dB/m)         Result (dBuV/m)         Limit (dBuV/m)         Over limit (dB)         Antenna Pol.           36.39         17.05         53.44         68.20         -14.76         H           37.89         17.05         54.94         68.20         -13.26         V           27.63         17.05         44.68         54.00         -9.32         H           28.31         17.05         45.36         54.00         -8.64         V           TM4 / Band: 5725-5850 MHz / BW: 40 / H           Reading (dBuV)         Result (dBuV/m)         Cover limit (dBuV/m)         Antenna Pol.           37.73         17.21         54.94         68.20         -13.26         H           38.59         17.21         55.80         68.20         -12.40         V           27.74         17.21         44.95         54.00         -9.05         H

- 1. Result=Reading + Factor
- 2. During the test, SISO and MIMO modes have been tested, and only worst case (MIMO) data is listed in the report.







Report No.: 18220WC40074704 FCC ID: 2ABC5-E0054 Page 37 of 50

		TM4 / B	and: 5725-58	350 MHz / BV	W: 80 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5725.00	35.66	17.05	52.71	68.20	-15.49	PH	Peak
5725.00	37.21	17.05	54.26	68.20	-13.94	Nupo.	Peak
5725.00	26.71	17.05	43.76	54.00	-10.24	otek H Anbo	AVG
5725.00	27.25	17.05	44.30	54.00	-9.70	nbotek V A	AVG
		TM4 / B	and: 5725-58	350 MHz / BV	V: 80 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5850.00	37.75	17.21	54.96	68.20	-13.24	H <sup>nb</sup>	Peak
5850.00	38.01	17.21	55.22	68.20	-12.98	tek A Vupo,	Peak
5850.00	28.18	17.21	45.39	54.00	-8.61	Lotek H An	AVG AM
5850.00	28.38	17.21	45.59	54.00	-8.41	V	AVG

#### Remark:

- 1. Result=Reading + Factor
- 2. During the test, SISO and MIMO modes have been tested, and only worst case (MIMO) data is listed in the report.





Report No.: 18220WC40074704 FCC ID: 2ABC5-E0054 Page 38 of 50

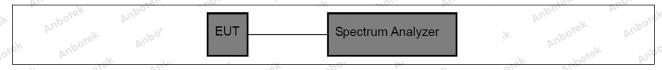
## 8. Band edge emissions (Conducted)

700 K	work All the state was the sk hole
Test Requirement:	47 CFR Part 15.407(b)(1)
Toot requirement:	47 CFR Part 15.407(b)(2)
Anbo. A. bot	For transmitters operating in the 5.15-5.25 GHz band: All emissions outside
	of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
Test Limit:	bo. Ar. Motek Anboter And tek Obotek Anbo. Ar.
or - bu	For transmitters operating in the 5.25-5.35 GHz band: All emissions outside
abotek Anbo	of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
y, vek vipoje,	Augo Andrew Augo, Andrew Augores Aug
	Peak emission levels are measured by setting the instrument as follows:
	RBW = 1 MHz.
Test Method:	VBW ≥ [3 × RBW]
rest weight.	Detector = peak.
	Sweep time = auto.
	Trace mode = max hold.

# 8.1. EUT Operation

Operating Env	vironment: nbotek Anbo Anbotek Anbotek Anbotek
Anbotek Anbotek	1: 802.11a mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.
-potek Pupo,	2: 802.11n mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
Test mode:	3: 802.11ac mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
ootek Anbote	4: 802.11ax mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ax modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report

## 8.2. Test Setup



## 8.3. Test Data

Temperature: 24.3 °C	Humidity: 49 %	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.







Report No.: 18220WC40074704 FCC ID: 2ABC5-E0054 Page 39 of 50

## 9. Undesirable emission limits (below 1GHz)

Test Requirement:	47 CFR Part 15.407(b)(9)	Aug spotek	Aupo, Vie				
Anbotek Anbote		Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209.					
	Ek a sporen da Anbo	and in this work want the Ambore	All.				
		nere in this subpart, the emiss					
		ot exceed the field strength le	eveis specified in the				
otek Anbore	following table:	Andrew Andrew	pore An				
	Frequency (MHz)	Field strength	Measurement				
	totek Anbore	(microvolts/meter)	distance				
All.	Aug Kalek	Pupo, VII.	(meters)				
	0.009-0.490	2400/F(kHz)	300				
	0.490-1.705	24000/F(kHz)	30				
	1.705-30.0	30 hote And	30 otek				
	30-88	100 **	3 A				
Test Limit:	88-216	150 **	otek 3 Anbore				
	216-960	200 **	3 John Stell				
	Above 960	500	nbore 3 And				
	** Except as provided in p	** Except as provided in paragraph (g), fundamental emissions from					
		ting under this section shall r					
	frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz.						
	However, operation within these frequency bands is permitted under other						
	sections of this part, e.g., §§ 15.231 and 15.241.						
Ande	In the emission table above, the tighter limit applies at the band edges.						
tek aboten	The emission limits shown in the above table are based on measurements						
	employing a CISPR quasi-peak detector except for the frequency bands 9–						
	90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in						
	these three bands are based on measurements employing an average						
	detector.						
Test Method:	ANSI C63.10-2020, section	n 12 7 / 12 7 5	Vupo, V				
rest Metriod.	701 A11.	11 12.7.4, 12.7.3	L Spotek An				
	Below 1GHz:	- ok horek Anbor	A. Latek				
		JT was placed on the top of a					
		at a 3 meter semi-anechoic c					
	_V_	o determine the position of the	U				
		0 meters away from the inter					
		ted on the top of a variable-h					
Wi.		aried from one meter to four i					
		naximum value of the field str					
h botek Anh		of the antenna are set to mak					
Procedure:		ission, the EUT was arranged					
	-1/2	tuned to heights from 1 meter					
		MHz, the antenna was tuned					
	6/1	s turned from 0 degrees to 36	ou degrees to find the				
	maximum reading.	Aupor Air	aboren Anbe				
		n was set to Peak Detect Fur	nction and Specified				
	Bandwidth with Maximum		_ Aupo, Air				
		ne EUT in peak mode was 10					
	limit specified, then testing	g could be stopped and the pe	eak values of the FU				
		vise the emissions that did no					









Report No.: 18220WC40074704 FCC ID: 2ABC5-E0054 Page 40 of 50

would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.

- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case
- i. Repeat above procedures until all frequencies measured was complete. Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

#### Above 1GHz:

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. 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 antenna height 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) 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 Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case
- i. Repeat above procedures until all frequencies measured was complete. Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB









Report No.: 18220WC40074704 FCC ID: 2ABC5-E0054 Page 41 of 50

below the limit need not be reported.

- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- 4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

## 9.1. EUT Operation

#### Operating Environment:

1: 802.11a mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.

2: 802.11n mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

Test mode:

- 3: 802.11ac mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
- 4: 802.11ax mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ax modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

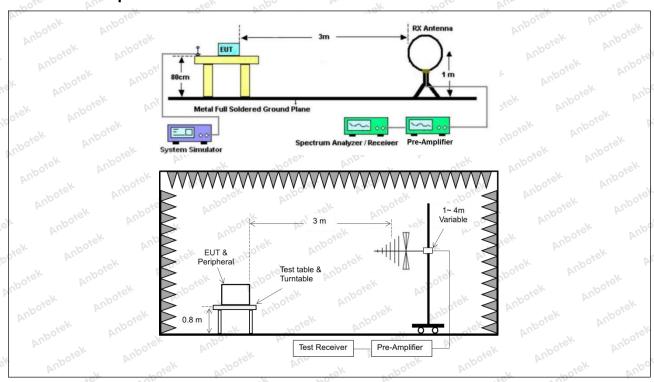
#### **Shenzhen Anbotek Compliance Laboratory Limited**





Report No.: 18220WC40074704 FCC ID: 2ABC5-E0054 Page 42 of 50

## 9.2. Test Setup





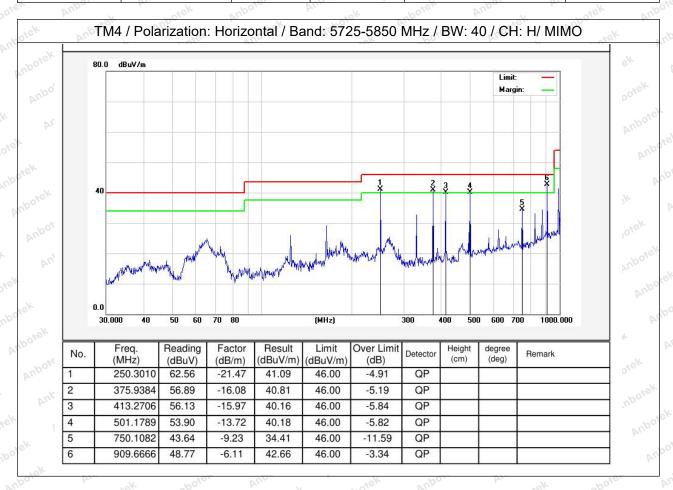


Report No.: 18220WC40074704 FCC ID: 2ABC5-E0054 Page 43 of 50

#### 9.3. Test Data

The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

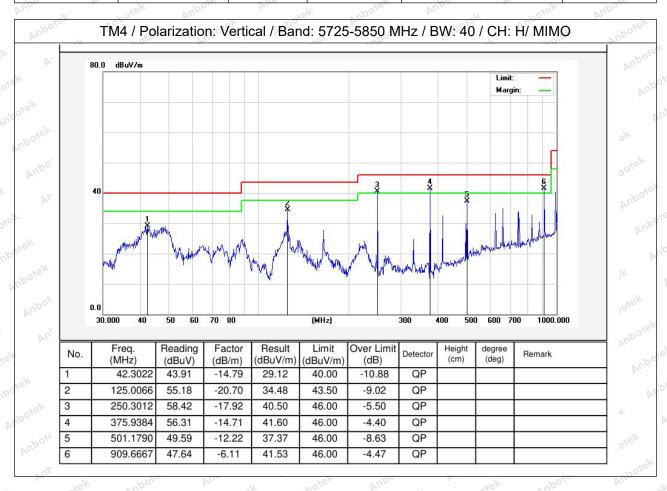
Temperature:	24.3 °C	Hum	idity: 49 %	Atmospheric I	Pressure: 101 kPa
	- : : : -		1	12.	18





Report No.: 18220WC40074704 FCC ID: 2ABC5-E0054 Page 44 of 50

Temperature: 24.3 °C Humidity: 49 % Atmospheric Pressure: 101 kPa



Note: Only record the worst data (802.11ax(HEW40) MIMO) in the report.







Report No.: 18220WC40074704 FCC ID: 2ABC5-E0054 Page 45 of 50

# 10. Undesirable emission limits (above 1GHz)

est Requirement:	47 CFR Part 15.407(b 47 CFR Part 15.407(b 47 CFR Part 15.407(b	)(4)		
Anbotek Anbot	For transmitters opera of the 5.15-5.35 GHz t			
tek Anbotek	For transmitters opera All emissions shall be above or below the ba above or below the ba	limited to a level of -2 nd edge increasing lin	27 dBm/MHz at nearly to 10 dBn	75 MHz or moi n/MHz at 25 M
	edge increasing linear below the band edge, increasing linearly to a	and from 5 MHz abov	e or below the l	band edge
	MHz	MHz	MHz	GHz
Aup	0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
	10.495-0.505	16.69475- 16.69525	608-614	5.35-5.46
	2.1735-2.1905	16.80425- 16.80475	960-1240	7.25-7.75
	4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
	4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
	4.20725-4.20775	73-74.6	1645.5- 1646.5	9.3-9.5
	6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
st Limit:	6.26775-6.26825	108-121.94	1718.8- 1722.2	13.25-13.4
St Lillit. " " " " " " " " " " " " " " " " " " "	6.31175-6.31225	123-138	2200-2300	14.47-14.5
	8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
	8.362-8.366	156.52475- 156.52525	2483.5-2500	17.7-21.4
	8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
	8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
	12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
	12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
	12.57675-12.57725	322-335.4	3600-4400	(2) Anbore
	13.36-13.41	by.	aboie And	.\.
ek abojen	VUP.	otek Anbor	W. sek	Upote. Vup
	<sup>1</sup> Until February 1, 199	9. this restricted band	shall be 0.490-	0.510 MHz.
	v otek	Anbore Ans	abotek	Aup
	<sup>2</sup> Above 38.6			
	The field strength of el not exceed the limits s 1000 MHz, compliance using measurement in	hown in § 15.209. At with the limits in § 1	frequencies equ 5.209shall be de	ual to or less the monstrated
Anbotek Anbot	detector. Above 1000 15.209shall be demon emissions. The provisi	MHz, compliance with strated based on the	the emission li average value o	mits in § of the measured
	Gilliosions. The provisi	ons in a ro.ooappry t	c alege measure	Anboyer









Report No.: 18220WC40074704 FCC ID: 2ABC5-E0054 Page 46 of 50

botek Anbotek		where in this subpart, the emiss	
	following table:	not exceed the field strength lev	veis specified in the
	Frequency (MHz)	Field strength	Measurement
	Anber Anber	(microvolts/meter)	distance
otek anbo	Pur Pur	arek Anbe	(meters)
	0.009-0.490	2400/F(kHz)	300
ek aboyer A	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	atel 30 ambote
ootek Anbo	30-88	100 **	3 Total
	88-216	150 **	nborg Anbu
	216-960	200 **	3.ek abot
	Above 960	500	AT 3
And	·0//- /0/	A 120/2 D/U	- Yek
		paragraph (g), fundamental em	
		rating under this section shall no	
		иНz, 76-88 MHz, 174-216 MHz	
		n these frequency bands is per	mitted under other
	sections of this part, e.g.		Loiek
		ove, the tighter limit applies at th	
	The emission limits show	n in the above table are based	on measurements
	employing a CISPR quas	si-peak detector except for the f	requency bands 9-
		d above 1000 MHz. Radiated e	
		ased on measurements employi	
	detector.	otek Anbore Ans ok	botella
Test Method:	V John An	0 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	VII.
root mourou.	ANSI 603.10-2020, Sect	ion 12.7.4, 12.7.6, 12.7.7	
otek Anbotek	V <sub>U</sub> ,	ion 12.7.4, 12.7.6, 12.7.7	tek Aupoten
otek Anbotek	Above 1GHz:	Aupo sek Auposek Aupo	rotating table 1.5
otek Anbotek	Above 1GHz: a. For above 1GHz, the	EUT was placed on the top of a	
otek Anbotek	Above 1GHz: a. For above 1GHz, the meters above the ground	EUT was placed on the top of a d at a 3 meter fully-anechoic cha	amber. The table w
otek Anbotek Anbotek Anbotek	Above 1GHz: a. For above 1GHz, the meters above the ground rotated 360 degrees to degrees	EUT was placed on the top of a d at a 3 meter fully-anechoic cha etermine the position of the higl	amber. The table w hest radiation.
otek Anbotek Anbotek Anbotek Anbotek	Above 1GHz: a. For above 1GHz, the meters above the ground rotated 360 degrees to db. The EUT was set 3 meters above the ground rotated 360 degrees to db.	EUT was placed on the top of a d at a 3 meter fully-anechoic cha etermine the position of the high eters away from the interference	amber. The table w hest radiation. e-receiving antenna
otek Anbotek Anbotek Anbotek Anbotek Anbotek	Above 1GHz: a. For above 1GHz, the meters above the ground rotated 360 degrees to db. The EUT was set 3 mounted on the set of the se	EUT was placed on the top of a dat a 3 meter fully-anechoic characterism the position of the highesters away from the interference the top of a variable-height anter	amber. The table w hest radiation. e-receiving antenna nna tower.
otek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Above 1GHz: a. For above 1GHz, the meters above the ground rotated 360 degrees to db. The EUT was set 3 m which was mounted on tc. The antenna height is	EUT was placed on the top of a d at a 3 meter fully-anechoic charactermine the position of the higher away from the interference top of a variable-height antervaried from one meter to four meters and meter to four meters and meters are meters.	amber. The table whest radiation. e-receiving antennanna tower. neters above the
otek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbote	Above 1GHz: a. For above 1GHz, the meters above the ground rotated 360 degrees to db. The EUT was set 3 m which was mounted on tc. The antenna height is ground to determine the	EUT was placed on the top of a d at a 3 meter fully-anechoic charactermine the position of the high eters away from the interference the top of a variable-height antervaried from one meter to four maximum value of the field stre	amber. The table whest radiation.e-receiving antennana tower.eters above the
otek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Above 1GHz: a. For above 1GHz, the meters above the ground rotated 360 degrees to db. The EUT was set 3 m which was mounted on tc. The antenna height is ground to determine the and vertical polarizations	EUT was placed on the top of a d at a 3 meter fully-anechoic charactermine the position of the higherers away from the interference he top of a variable-height anter varied from one meter to four maximum value of the field stress of the antenna are set to make	amber. The table whest radiation. e-receiving antennation tower. heters above the ength. Both horizon
otek Anbotek	Above 1GHz: a. For above 1GHz, the meters above the ground rotated 360 degrees to db. The EUT was set 3 m which was mounted on tc. The antenna height is ground to determine the and vertical polarizations	EUT was placed on the top of a d at a 3 meter fully-anechoic charactermine the position of the high eters away from the interference the top of a variable-height antervaried from one meter to four maximum value of the field stre	amber. The table whest radiation. e-receiving antennation tower. heters above the ength. Both horizon
otek Anbotek	Above 1GHz: a. For above 1GHz, the meters above the ground rotated 360 degrees to db. The EUT was set 3 me which was mounted on tc. The antenna height is ground to determine the and vertical polarizations d. For each suspected e	EUT was placed on the top of a d at a 3 meter fully-anechoic charactermine the position of the higherers away from the interference he top of a variable-height anter varied from one meter to four maximum value of the field stress of the antenna are set to make	amber. The table whest radiation. e-receiving antennation tower. heters above the ength. Both horizon to its worst case
otek Anbotek	Above 1GHz:  a. For above 1GHz, the meters above the ground rotated 360 degrees to do b. The EUT was set 3 methods which was mounted on to c. The antenna height is ground to determine the and vertical polarizations d. For each suspected e and then the antenna was	EUT was placed on the top of a d at a 3 meter fully-anechoic characters away from the interference to the top of a variable-height antervaried from one meter to four maximum value of the field stress of the antenna are set to make mission, the EUT was arranged	amber. The table whest radiation. e-receiving antennation tower. neters above the ength. Both horizon the measurement to its worst case of to 4 meters (for the
otek Anbotek	Above 1GHz:  a. For above 1GHz, the meters above the ground rotated 360 degrees to do b. The EUT was set 3 m which was mounted on to c. The antenna height is ground to determine the and vertical polarizations d. For each suspected e and then the antenna was test frequency of below 3	EUT was placed on the top of a d at a 3 meter fully-anechoic charactermine the position of the higheters away from the interference the top of a variable-height antervaried from one meter to four maximum value of the field stress of the antenna are set to make mission, the EUT was arranged as tuned to heights from 1 meter 30MHz, the antenna was tuned	amber. The table we hest radiation. e-receiving antennation and tower. neters above the ength. Both horizon to its worst case to 4 meters (for the heights 1 meter)
otek Anbotek	Above 1GHz:  a. For above 1GHz, the meters above the ground rotated 360 degrees to do b. The EUT was set 3 m which was mounted on to c. The antenna height is ground to determine the and vertical polarizations d. For each suspected e and then the antenna was test frequency of below 3 and the rotatable table w	EUT was placed on the top of a d at a 3 meter fully-anechoic charactermine the position of the higheters away from the interference the top of a variable-height antervaried from one meter to four maximum value of the field stress of the antenna are set to make mission, the EUT was arranged as tuned to heights from 1 meter	amber. The table we hest radiation. e-receiving antennation and tower. neters above the ength. Both horizon to its worst case to 4 meters (for the heights 1 meter)
nbotek Anbotek	Above 1GHz: a. For above 1GHz, the meters above the ground rotated 360 degrees to db. The EUT was set 3 methods which was mounted on tc. The antenna height is ground to determine the and vertical polarizations d. For each suspected e and then the antenna was test frequency of below 3 and the rotatable table was maximum reading.	EUT was placed on the top of a d at a 3 meter fully-anechoic charactermine the position of the higherers away from the interference he top of a variable-height antervaried from one meter to four maximum value of the field stress of the antenna are set to make mission, the EUT was arranged as tuned to heights from 1 meter 30MHz, the antenna was tuned from 0 degrees to 36	amber. The table we hest radiation. e-receiving antennation and tower. neters above the ength. Both horizon to its worst case of to 4 meters (for the to heights 1 meter) degrees to find the case of the the
otek Anbotek	Above 1GHz: a. For above 1GHz, the meters above the ground rotated 360 degrees to do b. The EUT was set 3 m which was mounted on to c. The antenna height is ground to determine the and vertical polarizations d. For each suspected e and then the antenna was test frequency of below 3 and the rotatable table with maximum reading. e. The test-receiver systems	EUT was placed on the top of a d at a 3 meter fully-anechoic charactermine the position of the higherers away from the interference the top of a variable-height antervaried from one meter to four maximum value of the field stress of the antenna are set to make mission, the EUT was arranged as tuned to heights from 1 meters 30MHz, the antenna was tuned from 0 degrees to 36 mem was set to Peak Detect Fundamental set.	amber. The table we hest radiation. e-receiving antennation and tower. neters above the ength. Both horizon to its worst case of to 4 meters (for the to heights 1 meter) degrees to find the case of the the
otek Anbotek	Above 1GHz:  a. For above 1GHz, the meters above the ground rotated 360 degrees to do b. The EUT was set 3 methods which was mounted on to c. The antenna height is ground to determine the and vertical polarizations d. For each suspected e and then the antenna was test frequency of below 3 and the rotatable table with maximum reading.  e. The test-receiver systems and with the systems and the systems are systems.	EUT was placed on the top of a d at a 3 meter fully-anechoic charactermine the position of the higherers away from the interference the top of a variable-height antervaried from one meter to four maximum value of the field stress of the antenna are set to make mission, the EUT was arranged as tuned to heights from 1 meters and the summary of the antenna was tuned as turned from 0 degrees to 36 mem was set to Peak Detect Fundam Hold Mode.	amber. The table we hest radiation. e-receiving antennation and tower. Heters above the ength. Both horizon to its worst case of to 4 meters (for the to heights 1 meter) degrees to find the ction and Specified
otek Anbotek	Above 1GHz:  a. For above 1GHz, the meters above the ground rotated 360 degrees to do b. The EUT was set 3 methods which was mounted on to c. The antenna height is ground to determine the and vertical polarizations d. For each suspected eand then the antenna was test frequency of below and the rotatable table was maximum reading.  e. The test-receiver system Bandwidth with Maximum f. If the emission level of	EUT was placed on the top of a d at a 3 meter fully-anechoic chartermine the position of the higherers away from the interference the top of a variable-height antervaried from one meter to four maximum value of the field stress of the antenna are set to make mission, the EUT was arranged as tuned to heights from 1 meter as funded to heights from 1 meter as turned from 0 degrees to 36 mem was set to Peak Detect Funder Hold Mode.	amber. The table we hest radiation. e-receiving antennation and tower. heters above the ength. Both horizon to its worst case to 4 meters (for the heights 1 meter) degrees to find the ction and Specified dB lower than the
otek Anbotek	Above 1GHz:  a. For above 1GHz, the meters above the ground rotated 360 degrees to do b. The EUT was set 3 methods which was mounted on to c. The antenna height is ground to determine the and vertical polarizations d. For each suspected eand then the antenna was test frequency of below and the rotatable table was maximum reading.  e. The test-receiver system Bandwidth with Maximum f. If the emission level of limit specified, then testing	EUT was placed on the top of a d at a 3 meter fully-anechoic chartermine the position of the higherers away from the interference he top of a variable-height antervaried from one meter to four maximum value of the field stress of the antenna are set to make mission, the EUT was arranged as tuned to heights from 1 meter 30MHz, the antenna was tuned was turned from 0 degrees to 36 mem was set to Peak Detect Fundam Hold Mode.  The EUT in peak mode was 10cm g could be stopped and the peak	amber. The table we hest radiation. e-receiving antennation and tower. The table we had been about the measurement to its worst case or to 4 meters (for the to heights 1 meter) degrees to find the ction and Specified the lower than the ak values of the El
otek Anbotek	Above 1GHz:  a. For above 1GHz, the meters above the ground rotated 360 degrees to do b. The EUT was set 3 methods which was mounted on to c. The antenna height is ground to determine the and vertical polarizations d. For each suspected e and then the antenna was test frequency of below 3 and the rotatable table womaximum reading.  e. The test-receiver system Bandwidth with Maximum f. If the emission level of limit specified, then testing would be reported. Other	EUT was placed on the top of a d at a 3 meter fully-anechoic chartermine the position of the higheters away from the interference he top of a variable-height antervaried from one meter to four maximum value of the field stress of the antenna are set to make mission, the EUT was arranged as tuned to heights from 1 meters 60MHz, the antenna was tuned was turned from 0 degrees to 36 mem was set to Peak Detect Fundam Hold Mode.  The EUT in peak mode was 10 may could be stopped and the perwise the emissions that did not	amber. The table whest radiation. e-receiving antennation and tower. heters above the ength. Both horizon to the measurement to its worst case of the heights 1 meter) degrees to find the ction and Specified the lower than the ak values of the EU have 10dB margin
otek Anbotek	Above 1GHz:  a. For above 1GHz, the meters above the ground rotated 360 degrees to do b. The EUT was set 3 methods which was mounted on to c. The antenna height is ground to determine the and vertical polarizations d. For each suspected e and then the antenna was test frequency of below 3 and the rotatable table with maximum reading.  e. The test-receiver system Bandwidth with Maximum f. If the emission level of limit specified, then testing would be reported. Other would be re-tested one between the ground state of the	EUT was placed on the top of a d at a 3 meter fully-anechoic chartermine the position of the higherers away from the interference he top of a variable-height antervaried from one meter to four maximum value of the field stress of the antenna are set to make mission, the EUT was arranged as tuned to heights from 1 meters of the antenna was tuned from 0 degrees to 36 mem was set to Peak Detect Fundam Hold Mode.  The EUT in peak mode was 10 may could be stopped and the perwise the emissions that did not by one using peak or average meters.	amber. The table whest radiation. e-receiving antennation and tower. heters above the ength. Both horizon to the measurement to its worst case of the heights 1 meter) degrees to find the ction and Specified the lower than the ak values of the EU have 10dB margin
otek Anbotek	Above 1GHz: a. For above 1GHz, the meters above the ground rotated 360 degrees to do b. The EUT was set 3 methods which was mounted on to c. The antenna height is ground to determine the and vertical polarizations d. For each suspected e and then the antenna was test frequency of below 3 and the rotatable table with maximum reading. e. The test-receiver system Bandwidth with Maximum f. If the emission level of limit specified, then testing would be re-tested one be and then reported in a definition of the state of the s	EUT was placed on the top of a d at a 3 meter fully-anechoic charter and the position of the higherers away from the interference the top of a variable-height antervaried from one meter to four maximum value of the field stress of the antenna are set to make mission, the EUT was arranged as tuned to heights from 1 meters as turned from 0 degrees to 36 mem was set to Peak Detect Fundam Hold Mode.  The EUT in peak mode was 10cm g could be stopped and the perwise the emissions that did not by one using peak or average mata sheet.	amber. The table we hest radiation. e-receiving antennation and tower. Heters above the ength. Both horizon to its worst case of to 4 meters (for the toheights 1 meter) degrees to find the ction and Specified all lower than the lak values of the Electhod as specified the specified as specified as specified the specified as specified the specified as specified the specified the specified the specified as specified the s
otek Anbotek	Above 1GHz: a. For above 1GHz, the meters above the ground rotated 360 degrees to do b. The EUT was set 3 methods which was mounted on to c. The antenna height is ground to determine the and vertical polarizations d. For each suspected e and then the antenna was test frequency of below 3 and the rotatable table with maximum reading. e. The test-receiver system Bandwidth with Maximum f. If the emission level of limit specified, then testing would be reported. Other would be re-tested one be and then reported in a darg. Test the EUT in the lower of the state o	EUT was placed on the top of a d at a 3 meter fully-anechoic chartermine the position of the higherers away from the interference he top of a variable-height antervaried from one meter to four maximum value of the field stress of the antenna are set to make mission, the EUT was arranged as tuned to heights from 1 meters of the antenna was tuned from 0 degrees to 36 mem was set to Peak Detect Fundam Hold Mode.  The EUT in peak mode was 10 may could be stopped and the perwise the emissions that did not by one using peak or average meters.	amber. The table we hest radiation. e-receiving antennation and tower. Heters above the ength. Both horizon to its worst case of to 4 meters (for the toheights 1 meter) degrees to find the ction and Specified all lower than the lak values of the Electhod as specified the specified as specified as specified the specified as specified the specified as specified the specified the specified the specified as specified the s
otek Anbotek	Above 1GHz:  a. For above 1GHz, the meters above the ground rotated 360 degrees to do b. The EUT was set 3 methods which was mounted on to c. The antenna height is ground to determine the and vertical polarizations d. For each suspected eand then the antenna was test frequency of below and the rotatable table was maximum reading.  e. The test-receiver system Bandwidth with Maximum f. If the emission level of limit specified, then testing would be re-tested one be and then reported in a day. Test the EUT in the low channel.	EUT was placed on the top of a d at a 3 meter fully-anechoic chartermine the position of the higherers away from the interference the top of a variable-height antervaried from one meter to four maximum value of the field stress of the antenna are set to make mission, the EUT was arranged as tuned to heights from 1 meter 30MHz, the antenna was tuned was turned from 0 degrees to 36 mem was set to Peak Detect Fundamental Mode. The EUT in peak mode was 10cm g could be stopped and the perwise the emissions that did not be on the country one using peak or average mata sheet.	amber. The table whest radiation. e-receiving antennation and tower. neters above the ength. Both horizon to its worst case to 4 meters (for the to heights 1 meter) degrees to find the ction and Specified dB lower than the ak values of the EU have 10dB marginethod as specified el, the Highest
potek Anbotek	Above 1GHz:  a. For above 1GHz, the meters above the ground rotated 360 degrees to do b. The EUT was set 3 methods which was mounted on to c. The antenna height is ground to determine the and vertical polarizations d. For each suspected eand then the antenna was test frequency of below and the rotatable table was maximum reading.  e. The test-receiver system Bandwidth with Maximum f. If the emission level of limit specified, then testing would be re-tested one be and then reported in a day. Test the EUT in the low channel.  h. The radiation measures	EUT was placed on the top of a d at a 3 meter fully-anechoic charter and the position of the higherers away from the interference the top of a variable-height antervaried from one meter to four maximum value of the field stress of the antenna are set to make mission, the EUT was arranged as tuned to heights from 1 meters as turned from 0 degrees to 36 mem was set to Peak Detect Fundam Hold Mode.  The EUT in peak mode was 10cm g could be stopped and the perwise the emissions that did not by one using peak or average mata sheet.	amber. The table whest radiation. e-receiving antennational tower. heters above the ength. Both horizonation to its worst case of to 4 meters (for the to heights 1 meter) degrees to find the ction and Specified dB lower than the ak values of the EU have 10dB marginethod as specified el, the Highest axis positioning for

#### **Shenzhen Anbotek Compliance Laboratory Limited**



Transmitting mode, and found the X axis positioning which it is the worst



case.



Report No.: 18220WC40074704 FCC ID: 2ABC5-E0054 Page 47 of 50

- i. Repeat above procedures until all frequencies measured was complete. Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- 4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

#### 10.1. EUT Operation

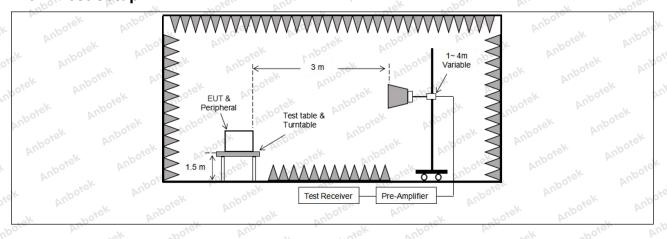
#### Operating Environment:

- 1: 802.11a mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.
- 2: 802.11n mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

#### Test mode:

- 3: 802.11ac mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
- 4: 802.11ax mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ax modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

#### 10.2. Test Setup









Report No.: 18220WC40074704 FCC ID: 2ABC5-E0054 Page 48 of 50

## 10.3. Test Data

Temperature: 24.3 °C Humidity: 49 % Atmospheric Pressure: 101 kPa

		TM4 /	Band: 5150-	5250 MHz / E	3W: 80		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
10420.00	30.12	23.81	53.93	68.20	-14.27	V	Peak
15630.00	30.85	29.36	60.21	68.20	-7.99	rupo, A	Peak
10420.00	31.10	23.81	54.91	68.20	-13.29	Anboth	Peak
15630.00	32.35	29.36	61.71	68.20	-6.49	"Ho, ser	Peak
10420.00	20.62	23.81	44.43	54.00	-9.57	V botek	AVG
15630.00	21.59	29.36	50.95	54.00	-3.05	V V	AVG Abot
10420.00	20.74	23.81	44.55	54.00	ote <sup>k</sup> -9.45 ph	H Ann	AVG
15630.00	21.75	29.36	_ot 51.11 An	54.00	-2.89	hotek H Ar	AVG

#### Remark:

- 1. Result =Reading + Factor
- 2. Only the worst case (802.11ax(HEW80) MIMO) is recorded in the report.



Report No.: FCC ID: 2ABC5-E0054 Page 49 of 50 18220WC40074704

Yo.	PULL VILLE	· .	Olek V	upo.	Yo.	boro	Vu.
		TM4 / Ban	d: 5725-585	0 MHz / BW:	40 / CH: L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
11510.000	28.64	23.36	52.00	68.20	-16.20	k V nbote	Peak
17265.000	29.22	32.02	61.24	68.20	-6.96	V V	rek Peak noc
11510.000	29.53	23.36	52.89	68.20	otel-15.31 pm	H	Peak
17265.000	29.46	32.02	61.48	68.20	-6.72	nboten H	Peak
11510.000	18.37	23.36	41.73	54.00	-12.27	npoV <sup>k</sup>	AVG
17265.000	18.77	32.02	50.79	54.00	-3.21	Notek	AVG
11510.000	18.75	23.36	42.11	54.00	-11.89	A'H Nel	AVG
17265.000	19.26	32.02	51.28	54.00	-2.72	H <sub>Upp</sub>	AVG
		TM4 / Ban	d: 5725-585	0 MHz / BW:	40 / CH: H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
11590.00	28.00	23.43	51.43	68.20	-16.77	Anbolv	Peak
17385.00	29.17	32.23	61.40	68.20	-6.80	AnViek	Peak
11590.00	28.47	23.43	51.90	68.20	-16.30	Hoorek	Peak
17385.00	28.72	32.23	60.95	68.20	-7.25	H	Peak
11590.00	17.64	23.43	41.07	54.00	-12.93	V Ann	AVG
17385.00	17.78	32.23	50.01 AN	54.00	-3.99	botek V Al	AVG
11590.00	18.52	23.43	41.95	54.00	-12.05	H <sup>y</sup> oo's	AVG
17385.00	18.69	32.23	50.92	54.00	-3.08	Hick	AVG

#### Remark:

- 1. Result =Reading + Factor
- 2. Only the worst case (802.11ax(HEW40) MIMO) is recorded in the report.



Hotline



Report No.: 18220WC40074704 FCC ID: 2ABC5-E0054 Page 50 of 50

## **APPENDIX I -- TEST SETUP PHOTOGRAPH**

Please refer to separated files Appendix I -- Test Setup Photograph\_RF

### APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

## APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report -----

