

TEST REPORT

Reference No...... : WTF24D12295878W003
FCC ID : 2BM73-ACHIPREADER
Applicant..... : Animal ID Corporation
Address..... : 2636 Walnut Hill Ln Suite #316, Dallas, TX 75229, USA
Manufacturer : LLC "A-chip"
Address..... : 82100 Ukraine, Drohobych, Truskavecka 1
Product..... : Achip Reader
Model(s) : Achip Reader
Brand Name..... : Achip
Standards..... : FCC 47CFR Part 15.247
Date of Receipt sample : 2024-12-30
Date of Test : 2025-01-02 to 2025-01-09
Date of Issue..... : 2025-02-07
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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3 Revision History

Test Report No.	Date of Receipt Sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTF24D12295878W003	2024-12-30	2025-01-02 to 2025-01-09	2025-02-07	Original	-	Valid
Note: All test data except Radiation spurious emission refer to the report (Bay Area Compliance Laboratories Corp. (Kunshan)- Report No.: RKS161017001-00B, FCC ID: 2AC7Z-ESPWROOM32).						

4 General Information

4.1 General Description of E.U.T.

Product:	Achip Reader
Model(s):	Achip Reader
Model Description:	N/A
Test Sample No.:	1-1/1
Wi-Fi Specification:	802.11b/g/n
Hardware Version:	1.09
Software Version:	1.0.1

4.2 Details of E.U.T.

Operation Frequency:	2.4G Wi-Fi: 802.11b/g/n HT20: 2412~2462MHz 802.11n HT40: 2422~2452MHz BLE: 2402~2480MHz
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Max. RF output power:	2.4G Wi-Fi: 16.62dBm BLE: 6.07Bm
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Type of Modulation:	2.4G Wi-Fi: DSSS, OFDM BLE: GFSK
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Antenna installation:	PCB Antenna
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Antenna Gain:	3.76dBi
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Note:

#: The antenna gain is provided by the applicant, and the applicant should be responsible for its authenticity, WALTERK lab has not verified the authenticity of its information.

Ratings:	Input: DC 5V
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Battery:	3.7V 600mAh
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4.3 Channel List

2.4G Wi-Fi:

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	2412	2	2417	3	2422	4	2427
5	2432	6	2437	7	2442	8	2447
9	2452	10	2457	11	2462	-	-

BLE:

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
0	2402	1	2404	2	2406	3	2408
4	2410	5	2412	6	2414	7	2416
8	2418	9	2420	10	2422	11	2424
12	2426	13	2428	14	2430	15	2432
16	2434	17	2436	18	2438	19	2440
20	2442	21	2444	22	2446	23	2448
24	2450	25	2452	26	2454	27	2456
28	2458	29	2460	30	2462	31	2464
32	2466	33	2468	34	2470	35	2472
36	2474	37	2476	38	2478	39	2480

4.4 Test Facility

The test facility has a test site registered with the following organizations:

ISED CAB identifier: CN0013. Test Firm Registration No.: 7760A.

Waltek Testing Group Co., Ltd. Has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files.

Registration number 7760A, October 15, 2016.

FCC Designation No.: CN1201. Test Firm Registration No.: 523476.

Waltek Testing Group Co., Ltd. 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 number 523476, September 10, 2019.

4.5 Subcontracted

Whether parts of tests for the product have been subcontracted to other labs:

☐ Yes ☒ No

If Yes, list the related test items and lab information:

Test Lab: N/A

Lab address: N/A

Test items: N/A

4.6 Abnormalities from Standard Conditions

None.

4.7 Test Mode

Tests Carried Out Under FCC part 15.247

Test Items	Mode	Data Rate	Channel	TX/RX
Maximum Conducted Output Power	802.11b	1 Mbps	1/6/11	TX
	802.11g	6 Mbps	1/6/11	TX
	802.11n HT20	MCS0	1/6/11	TX
	802.11n HT40	MCS0	3/6/9	TX
	BLE	1 Mbps	0/19/39	TX
Power Spectral Density	802.11b	1 Mbps	1/6/11	TX
	802.11g	6 Mbps	1/6/11	TX
	802.11n HT20	MCS0	1/6/11	TX
	802.11n HT40	MCS0	3/6/9	TX
	BLE	1 Mbps	0/19/39	TX
6dB Bandwidth	802.11b	1 Mbps	1/6/11	TX
	802.11g	6 Mbps	1/6/11	TX
	802.11n HT20	MCS0	1/6/11	TX
	802.11n HT40	MCS0	3/6/9	TX
	BLE	1 Mbps	0/19/39	TX
Band Edge	802.11b	1 Mbps	1/6/11	TX
	802.11g	6 Mbps	1/6/11	TX
	802.11n HT20	MCS0	1/6/11	TX
	802.11n HT40	MCS0	3/6/9	TX
	BLE	1 Mbps	0/19/39	TX
Transmitter Spurious Emissions	802.11b	1 Mbps	1/6/11	TX
	802.11g	6 Mbps	1/6/11	TX
	802.11n HT20	MCS0	1/6/11	TX
	802.11n HT40	MCS0	3/6/9	TX
	BLE	1 Mbps	0/19/39	TX

Note: Parameters set by test software during channel & power tests, the software provided by the applicant was used to set the operating channels as well as the maximum output power level. The RF output power set is the power expected by the manufacturer and is going to be fixed on the firmware of the final product.

5 Test Summary

Test Items	Test Requirement	Result
Radiated Spurious Emissions	15.247(d) 15.205(a) 15.209(a)	PASS
Conducted Spurious Emissions	15.247(d)	PASS*
Conducted Emissions	15.207(a)	N/A
6dB Bandwidth	15.247(a)(2)	PASS*
Maximum Conducted Output Power	15.247(b)(3), (4)	PASS*
Power Spectral Density	15.247(e)	PASS*
Band Edge	15.247(d)	PASS*
Antenna Requirement	15.203	PASS
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307(b)(1)	PASS
Note: 1. Pass=Compliance; NC=Not Compliance; NT=Not Tested; N/A=Not Applicable 2. *: The test result refer to the report (Bay Area Compliance Laboratories Corp. (Kunshan)- Report No.: RKS161017001-00B, FCC ID: 2AC7Z-ESPWROOM32).		

6 Equipment Used during Test

6.1 Equipments List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date	Calibration Due Date
3m Semi-anechoic Chamber for Radiation Emissions 1#						
1	Spectrum Analyzer	R&S	FSP30	100091	2024-04-22	2025-04-21
2	Amplifier	Agilent	8447D	2944A10178	2024-07-18	2025-07-17
3	Tri-log Broadband Antenna	SCHWARZBECK	VULB9163	336	2024-07-21	2025-07-20
4	Coaxial Cable	Top	TYPE16(13M)	-	2024-04-22	2025-04-21
5	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120D	667	2024-01-23	2025-01-22
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	2024-07-18	2025-07-17
7	Broadband Preamplifier	COMPLIANCE	PAP-1G18	2004	2024-07-18	2025-07-17
8	Coaxial Cable	Top	ZT26-NJ-NJ-8M/FA	-	2024-04-22	2025-04-21
9	Microwave Amplifier	SCHWARZBECK	BBV 9721	100472	2024-07-18	2025-07-17
10	Coaxial Cable	Top	ZT40-2.92J-2.92J-2.0M	17100919	2024-04-22	2025-04-21
3m Semi-anechoic Chamber for Radiation Emissions 2#						
1	Test Receiver	R&S	ESCI	101296	2024-04-22	2025-04-21
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	2024-11-04	2025-11-03
3	Active Loop Antenna	Com-Power	AL-130R	10160007	2024-04-27	2025-04-26
4	Amplifier	ANRITSU	MH648A	M43381	2024-04-22	2025-04-21
5	Cable	HUBER+SUHNER	CBL2	525178	2024-04-22	2025-04-21

Test Software:

Test Item	Software name	Software version
Radiated Emission(3m)	EZ-EMC	EZ-EMC(RA-03A1-1)

6.2 Description of Support Units

Equipment	Manufacturer	Model No.	Series No.
/	/	/	/

6.3 Measurement Uncertainty

Parameter	Uncertainty
Conducted Emission	$\pm 3.64\text{dB}$ (AC mains 150KHz~30MHz)
Radiated Spurious Emissions	$\pm 5.08\text{dB}$ (Bilog antenna 30M~1000MHz)
	$\pm 5.47\text{ dB}$ (Horn antenna 1000M~25000MHz)
Radio Frequency	$\pm 1 \times 10^{-7}\text{Hz}$
RF Power	$\pm 0.42\text{ dB}$
RF Power Density	$\pm 0.7\text{dB}$
Conducted Spurious Emissions	$\pm 2.76\text{ dB}$ (9kHz~26500MHz)
Confidence interval: 95%. Confidence factor: k=2	

6.4 Test Equipment Calibration

All the test equipments used are valid and calibrated by CEPREI Certification Body that address is No.110 Dongguan Zhuang RD. Guangzhou, P.R. China.

7 Radiated Emissions

Test Requirement: 47CFR FCC Part15 Subpart C §15.209&15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02, April 2, 2019;
ANSI C63.10-2020+A1-2024

Test Result: PASS

Measurement Distance: 3m

Limit:

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	$20\log^{(2400/F(kHz))} + 80$
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	$20\log^{(24000/F(kHz))} + 40$
1.705 ~ 30	30	30	100 * 30	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

7.1 EUT Operation

Operating Environment:

Temperature: 23.8°C

Humidity: 45.3 RH

Atmospheric Pressure: 101.2kPa

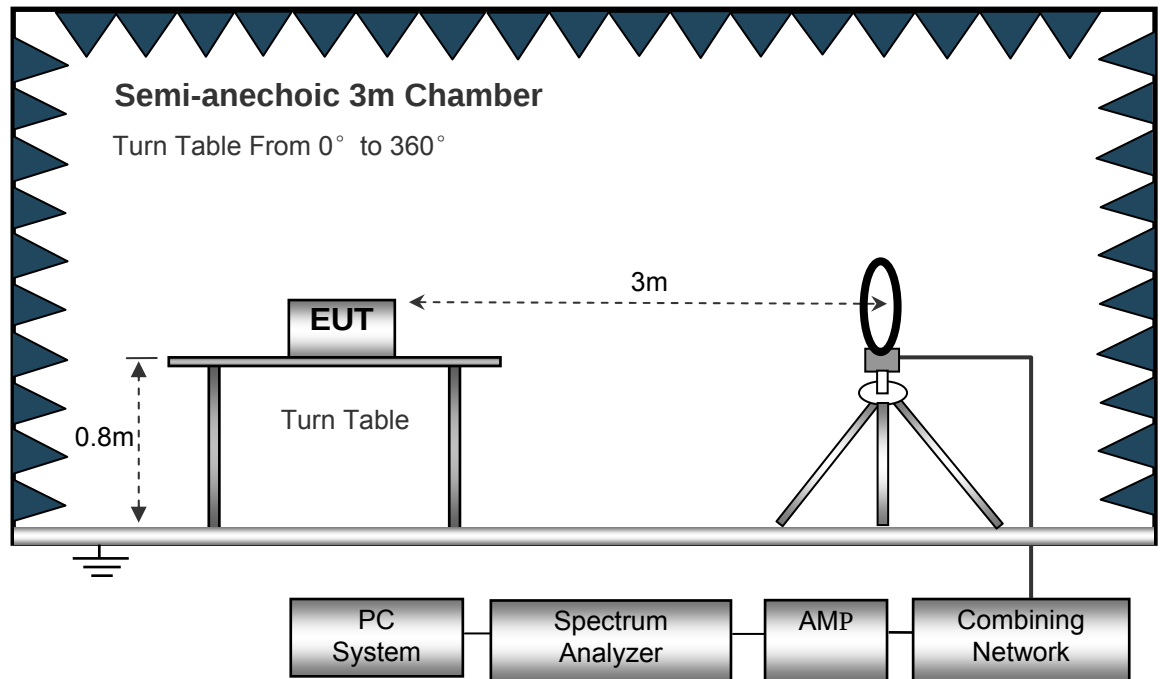
EUT Operation:

The test was performed in Transmitting mode, the worst test data were shown in the report.

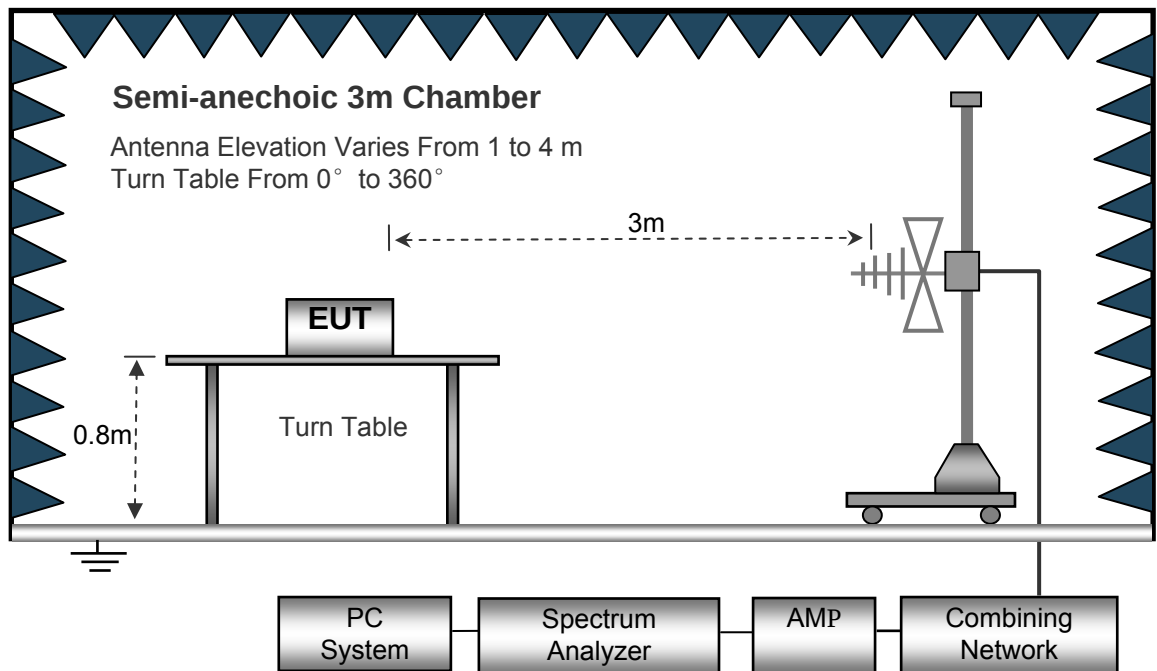
7.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.10.

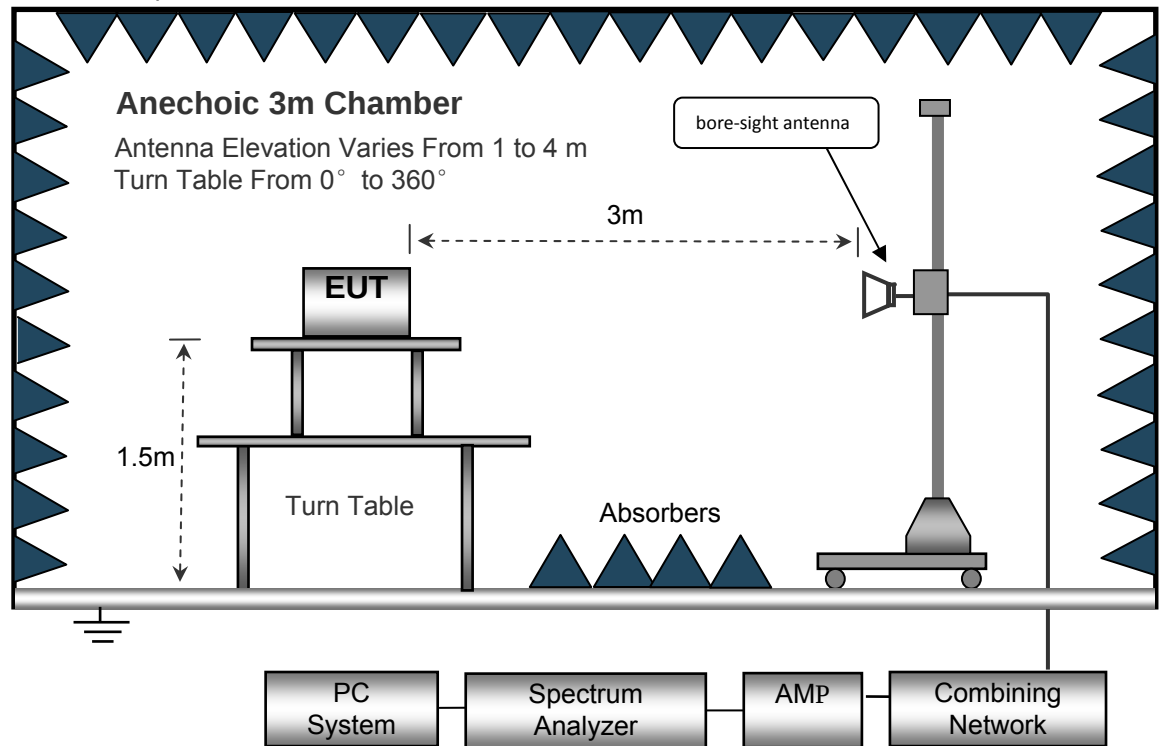
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz.



7.3 Spectrum Analyzer Setup

Below 30MHz

Sweep Speed Auto
IF Bandwidth..... 10kHz
Video Bandwidth..... 10kHz
Resolution Bandwidth..... 10kHz

30MHz ~ 1GHz

Sweep Speed Auto
Detector PK
Resolution Bandwidth..... 100kHz
Video Bandwidth..... 300kHz

Above 1GHz

Sweep Speed Auto
Detector PK
Resolution Bandwidth..... 1MHz
Video Bandwidth..... 3MHz
Detector Ave.
Resolution Bandwidth..... 1MHz
Video Bandwidth..... 10Hz

7.4 Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane for below 1GHz and 1.5m for above 1GHz.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are performed in X,Y and Z axis positioning(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand),the worst condition was tested putting the eut in Z axis,so the worst data were shown as follow.
8. A 2.4GHz high –pass filter is used during radiated emissions above 1GHz measurement.

7.5 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the maximum limit for Class B. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{Limit}$$

7.6 Summary of Test Results

2.4G Wi-Fi:

Test Frequency: 9kHz ~ 30MHz

The measurements were more than 20 dB below the limit and not reported.

Test Frequency: 30MHz ~ 8GHz

Note: Only the worst-case 11b mode were record in the report.

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	Limit	Margin
				Height	Polar				
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11b: Low Channel 2412MHz									
483.15	45.59	QP	73	1.2	H	-13.21	32.38	46.00	-13.62
483.15	52.96	QP	10	1.1	V	-13.21	39.75	46.00	-6.25
4824.00	59.26	PK	58	1.3	V	-1.06	58.20	74.00	-15.80
4824.00	44.08	Ave	58	1.3	V	-1.06	43.02	54.00	-10.98
7236.00	52.99	PK	120	1.5	H	1.33	54.32	74.00	-19.68
7236.00	39.09	Ave	120	1.5	H	1.33	40.42	54.00	-13.58

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	Limit	Margin
				Height	Polar				
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11b: Middle Channel 2437MHz									
483.15	46.02	QP	289	1.1	H	-13.21	32.81	46.00	-13.19
483.15	53.11	QP	163	1.3	V	-13.21	39.90	46.00	-6.10
4874.00	58.22	PK	184	1.9	V	-0.62	57.60	74.00	-16.40
4874.00	44.52	Ave	184	1.9	V	-0.62	43.90	54.00	-10.10
7311.00	52.58	PK	321	2.0	H	2.21	54.79	74.00	-19.21
7311.00	37.90	Ave	321	2.0	H	2.21	40.11	54.00	-13.89

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	Limit	Margin
				Height	Polar				
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11b: High Channel 2462MHz									
483.15	45.74	QP	101	1.6	H	-13.21	32.53	46.00	-13.47
483.15	51.89	QP	279	1.2	V	-13.21	38.68	46.00	-7.32
4924.00	58.92	PK	230	1.9	V	-0.24	58.68	74.00	-15.32
4924.00	43.62	Ave	230	1.9	V	-0.24	43.38	54.00	-10.62
7386.00	51.87	PK	10	1.2	H	2.84	54.71	74.00	-19.29
7386.00	36.92	Ave	10	1.2	H	2.84	39.76	54.00	-14.24

Radiated Restricted Band Emission

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	Limit	Margin
				Height	Polar				
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11b: Low Channel 2412MHz									
2335.59	57.23	PK	195	1.5	V	-13.19	44.04	74.00	-29.96
2335.59	48.20	Ave	195	1.5	V	-13.19	35.01	54.00	-18.99
2351.92	54.54	PK	40	2.0	H	-13.14	41.40	74.00	-32.60
2351.92	48.66	Ave	40	2.0	H	-13.14	35.52	54.00	-18.48
2496.17	50.27	PK	328	1.2	V	-13.08	37.19	74.00	-36.81
2496.17	43.95	Ave	328	1.2	V	-13.08	30.87	54.00	-23.13

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	Limit	Margin
				Height	Polar				
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11b: High Channel 2462MHz									
2332.57	46.77	PK	38	1.6	V	-13.19	33.58	74.00	-40.42
2332.57	39.77	Ave	38	1.6	V	-13.19	26.58	54.00	-27.42
2381.63	44.21	PK	163	1.0	H	-13.14	31.07	74.00	-42.93
2381.63	38.40	Ave	163	1.0	H	-13.14	25.26	54.00	-28.74
2497.17	42.79	PK	96	1.4	V	-13.08	29.71	74.00	-44.29
2497.17	38.14	Ave	96	1.4	V	-13.08	25.06	54.00	-28.94

Test Frequency: 8GHz~25GHz

The measurements were more than 20 dB below the limit and not reported.

BLE Mode:**Test Frequency: 9kHz~30MHz**

The measurements were more than 20 dB below the limit and not reported.

Test Frequency: 30MHz ~ 8GHz

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	Limit	Margin
				Height	Polar				
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
GFSK Low Channel 2402MHz									
558.62	50.00	QP	278	1.3	H	-11.88	38.12	46.00	-7.88
558.62	45.90	QP	76	1.6	V	-11.88	34.02	46.00	-11.98
4804.00	51.86	PK	116	1.2	V	-1.06	50.80	74.00	-23.20
4804.00	40.93	Ave	116	1.2	V	-1.06	39.87	54.00	-14.13
7206.00	51.85	PK	344	2.0	H	1.33	53.18	74.00	-20.82
7206.00	37.53	Ave	344	2.0	H	1.33	38.86	54.00	-15.14

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	Limit	Margin
				Height	Polar				
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
GFSK Middle Channel 2440MHz									
558.62	51.08	QP	204	2.0	H	-11.88	39.20	46.00	-6.80
558.62	45.34	QP	220	1.1	V	-11.88	33.46	46.00	-12.54
4880.00	51.96	PK	126	1.2	V	-1.06	50.90	74.00	-23.10
4880.00	41.14	Ave	126	1.2	V	-1.06	40.08	54.00	-13.92
7320.00	51.53	PK	10	1.4	H	1.33	52.86	74.00	-21.14
7320.00	37.00	Ave	10	1.4	H	1.33	38.33	54.00	-15.67

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	Limit	Margin
				Height	Polar				
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
GFSK High Channel 2480MHz									
558.62	48.87	QP	301	1.6	H	-13.35	35.52	46.00	-10.48
558.62	45.49	QP	19	1.4	V	-13.35	32.14	46.00	-13.86
4960.00	53.34	PK	237	1.9	V	-0.24	53.10	74.00	-20.90
4960.00	40.52	Ave	237	1.9	V	-0.24	40.28	54.00	-13.72
7440.00	51.80	PK	50	1.3	H	2.84	54.64	74.00	-19.36
7440.00	40.15	Ave	50	1.3	H	2.84	42.99	54.00	-11.01

Radiated Restricted Band Emission

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	Limit	Margin
				Height	Polar				
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
GFSK Low Channel 2402MHz									
2341.07	46.92	PK	292	1.8	V	-13.19	33.73	74.00	-40.27
2341.07	38.27	Ave	292	1.8	V	-13.19	25.08	54.00	-28.92
2384.17	44.16	PK	240	1.0	H	-13.14	31.02	74.00	-42.98
2384.17	37.24	Ave	240	1.0	H	-13.14	24.10	54.00	-29.90
2490.75	42.30	PK	138	1.3	V	-13.08	29.22	74.00	-44.78
2490.75	37.02	Ave	138	1.3	V	-13.08	23.94	54.00	-30.06

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	Limit	Margin
				Height	Polar				
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
GFSK High Channel 2480MHz									
2330.95	46.88	PK	311	1.7	V	-13.19	33.69	74.00	-40.31
2330.95	39.09	Ave	311	1.7	V	-13.19	25.90	54.00	-28.10
2360.56	44.09	PK	58	1.8	H	-13.14	30.95	74.00	-43.05
2360.56	36.40	Ave	58	1.8	H	-13.14	23.26	54.00	-30.74
2489.06	43.15	PK	151	1.1	V	-13.08	30.07	74.00	-43.93
2489.06	37.60	Ave	151	1.1	V	-13.08	24.52	54.00	-29.48

Test Frequency: 8GHz~25GHz

The measurements were more than 20 dB below the limit and not reported.

8 Antenna Requirement

According to the FCC Part 15 Paragraph 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. This product has a PCB Antenna fulfil the requirement of this section.

Note: Please refer to EUT photos for more details.

9 RF Exposure

Note: Please refer to SAR test report: WTF24D12295878W004.

10 Photographs of test setup and EUT.

Note: Please refer to appendix: Appendix-Achip Reader-Photos.

=====End of Report=====