

FCC 15.225 13.56MHz Test Report

for

EPS Bio Technology Corp.

**NO. 8, R&D RD.III, HSINCHU SCIENCE PARK,
HSINCHU, TAIWAN, 30076, R.O.C.**

**Product Name : Blood Glucose Monitoring
System**

**Model Name : (1)EasyMax Tag (2)Tag-21
(3)Eco**

FCC ID : 2AQBR-D071

**Prepared by: : AUDIX Technology Corporation,
EMC Department**



The test report is based on a single evaluation of one sample of the above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab logo.

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TEST REPORT

Applicant : EPS Bio Technology Corp.
Manufacturer : EPS Bio Technology Corp.
EUT Description
(1) Product : Blood Glucose Monitoring System
(2) Model : (1)EasyMax Tag (2)Tag-21 (3)Eco
(3) Power Supply: DC 3V

Applicable Standards:

47 CFR FCC Part 15 Subpart C

Audix Technology Corp. tested the equipment mentioned in accordance with the requirements set forth in the above standards. Test results indicate that the equipment tested is capable of demonstrating compliance with the requirements as documented within this report.

Audix Technology Corp. does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens and samples.

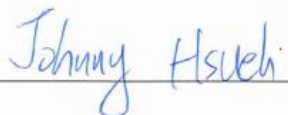
Date of Report: 2023. 09. 11

Reviewed by:



(Annie Yu/Administrator)

Approved by:



(Johnny Hsueh/Section Manager)



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1. REVISION RECORD OF TEST REPORT

Edition No	Issued Data	Revision Summary	Report Number
0	2023. 09. 11	Original Report	EM-F230451

2. SUMMARY OF TEST RESULTS

Rule	Description	Results
15.207	Conducted Emission	N/A, Note 3
15.225(a)(b)(c)	Radiation Emission (In-Band)	PASS
15.225(d)/15.209	Radiation Emission (Out-Band)	PASS
15.215 (c)	20dB Bandwidth	PASS
15.225(e)	Frequency Stability	PASS
Note: 1. Decision rule according to the limit of the test standard chapter, the test value is lower than the limit specified in the test chapter, and it is judged as Pass. 2. The uncertainties value is not used in determining the result. 3. The EUT only employs battery power for operation, so it is unnecessary to test.		

3. GENERAL INFORMATION

3.1. Description of Application

Applicant	EPS Bio Technology Corp. NO.8 R&D RD.III, HSINCHU SCIENCE PARK,HSINCHU, TAIWAN, 30076, R.O.C.
Manufacturer	EPS Bio Technology Corp. NO.8 R&D RD.III, HSINCHU SCIENCE PARK,HSINCHU, TAIWAN, 30076, R.O.C.
Product	Blood Glucose Monitoring System
Model	(1)EasyMax Tag (2)Tag-21 (3)Eco The differences between models please refer to the following table.

Table: Model different list

Model Number \ Item	Appearance		Test Strip Slot
	Color	Button	
(1)EasyMax Tag	White	O	O
(2)Tag-21	White	X	X
(3)Eco	White	X	X
1. Different design of appearance (Color and Button). 2. Different size of test strip slot, the component for test strip slot will be different on board. 3. The Tag-21 is manufacturer internal model, the Eco is sale model, both two models are identical, except to the model number.			
Remark: "O" means identical, "X" means different.			

3.2. Description of EUT

Test Model	EasyMax Tag, Tag-21		
Serial Number	N/A		
Power Rating	DC 3V		
RF Features	NFC		
Transmit Type	1T1R		
Test Sample	Sample No.	Test Item	Firmware
	01 (Model: EasyMax Tag)	RSE	N/A
	02 (Model: Tag-21)	RSE	N/A
Sample Status	Production		
Date of Receipt	2023. 08. 30		
Date of Test	2023. 09. 06 ~ 07		
Interface Ports of EUT	None		
Accessories Supplied	None		

Pursuant ISO 17025:2017 section 7.8.2, **Audix Technology Corp.** does not assume responsibility for all EUT's information including RF features, transmit type, antenna information...etc are provided by customer.

3.3. Reference Test Guidance

ANSI C63.10:2013

3.4. Antenna Information

No.	Antenna Part Number	Manufacture	Antenna Type	Frequency (MHz)	Max Gain (dBi)
1	N/A	N/A	Coil	N/A	N/A

3.5. EUT Specifications Assessed in Current Report

Mode	Fundamental Range (MHz)	Channel Number	Modulation
NFC	13.56	1	ASK

3.6. Description of Key Components

None

3.7. Test Configuration

Item		Test Model	Test Channel
Radiated Test Case	Radiated Spurious Emission (In-Band)	EasyMax Tag Tag-21	1
	Radiated Spurious Emission (Out-Band) Note1	EasyMax Tag Tag-21	1
	20dB Bandwidth	EasyMax Tag	1
	Frequency Stability	EasyMax Tag	1

Note 1: ☐ Mobile Device ☒ Portable Device
and 3 axis were assessed. The worst scenario for Radiated Spurious Emission as follow: ☒ Lie ☐ Side ☐ Stand

Note 2: Both of models have identical RF mechanism. The difference is size of test strip slot, so we presented conducted test case with model EasyMax Tag.

3.8. Tested Supporting System List

3.8.1. Support Peripheral Unit

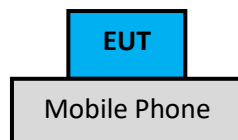
No.	Product	Brand	Model No.	Serial No.	Approval
1.	Mobile Phone	realme	RMX3472	N/A	N/A
2.	DC Power Supply	TOP WARD	3303A	N/A	N/A

3.8.2. Cable Lists

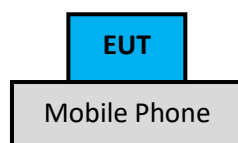
No.	Cable Description Of The Above Support Units
1.	---
2.	DC Power Cable: Unshielded, Detachable, 1.5 m AC Power Cord: Unshielded, Detachable, 1.8m

3.9. Setup Configuration

3.9.1. EUT Configuration for Radiated Emission



3.9.2. EUT Configuration for RF Conducted Test Items



3.10. Operating Condition of EUT

Test program “EzGluc0 Tag” is used for enabling EUT NFC function under continues transmitting.

3.11. Description of Test Facility

Name of Test Firm	Audix Technology Corporation / EMC Department No. 491, Zhongfu Rd., Linkou Dist., New Taipei City 244, Taiwan Tel: +886-2-26092133 Fax: +886-2-26099303 Website : www.audixtech.com Contact e-mail: attemc_report@audixtech.com
Accreditations	The laboratory is accredited by following organizations under ISO/IEC 17025:2017 (1) NVLAP(USA) NVLAP Lab Code 200077-0 (2) TAF(Taiwan) No. 1724
Test Facilities	FCC OET Designation Number under APEC MRA by NCC is : TW1724 ISED CAB Identifier Number under APEC TEL MRA by NCC is TW1724 (1) No.8 Shielded Room (2) No.1 3m Semi Anechoic Chamber

3.12.Measurement Uncertainty

The measurement uncertainty levels have been estimated as specified in ETSI TR 100 028-2001

Test Items/Facilities			Frequency Range	Uncertainty
Conduction Test	☐	No. 7 Shielded Room	30MHz-200MHz, 3m, Horizontal	±3.6dB
			200MHz-1000MHz, 3m, Horizontal	±4.3dB
	☐	No. 8 Shielded Room	30MHz-200MHz, 3m, Vertical	±4.4dB
			200MHz-1000MHz, 3m, Vertical	±4.8dB
Radiation Test	☒	No.1 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±3.6dB
			200MHz-1000MHz, 3m, Horizontal	±4.3dB
			30MHz-200MHz, 3m, Vertical	±4.4dB
			200MHz-1000MHz, 3m, Vertical	±4.8dB
			1GHz-6GHz, 3m	±4.8dB
			6GHz-18GHz, 3m	±4.5dB
	☐	No.3 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±3.7dB
			200MHz-1000MHz, 3m, Horizontal	±4.1dB
			30MHz-200MHz, 3m, Vertical	±4.6dB
			200MHz-1000MHz, 3m, Vertical	±4.9dB
			1GHz-6GHz, 3m	±4.7dB
			6GHz-18GHz, 3m	±4.1dB
	☐	No.4 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±4.0dB
			200MHz-1000MHz, 3m, Horizontal	±4.4dB
			30MHz-200MHz, 3m, Vertical	±4.7dB
			200MHz-1000MHz, 3m, Vertical	±4.5dB
			1GHz-6GHz, 3m	±4.8dB
			6GHz-18GHz, 3m	±4.5dB
	☐	No.5 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±4.3dB
			200MHz-1000MHz, 3m, Horizontal	±4.2dB
			30MHz-200MHz, 3m, Vertical	±4.8dB
			200MHz-1000MHz, 3m, Vertical	±4.7dB
			1GHz-6GHz, 3m	±4.6dB
			6GHz-18GHz, 3m	±4.4dB
	Radiated emissions (18GHz-40GHz)		18GHz-40GHz, 3m	±3.4dB

Remark : Uncertainty = $kuc(y)$

Test Item	Uncertainty
20dB Bandwidth	± 0.2kHz
Frequency Stability	±0.78ppm

4. MEASUREMENT EQUIPMENT LIST

4.1. Radiated Emission Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9010A-526	MY53400071	2023.08.16	1 Year
2.	Test Receiver	R&S	ESCS30	100338	2023.06.20	1 Year
3.	Microwave Amplifier	HP	8447D	2944A06305	2022.12.29	1 Year
4.	Bilog Antenna	TESEQ	CBL6112D	33821	2023.06.30	1 Year
5.	Loop Antenna	TESEQ	HLA 6121	60478	2023.02.21	1 Year
6.	Coaxial Cable	HUBER+SUHNER	RG223/U	RE-33	2023.03.02	1 Year
7.	Coaxial Cable	MIYAZAKI	5D2W	RE-11	2023.01.07	1 Year
8.	Digital Thermo-Hygro Meter	iMax	HTC-1	No.1 3m A/C	2023.04.13	1 Year
9.	Test Software	Audix	e3	V9 18621a	N.C.R.	N.C.R.

4.2. RF Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Keysight	N9020B	MY57120357	2023.02.22	1 Year
2.	Programmable Temperature & Humidity Chamber	GIANT	GTH-150-40-CP-AR	MAA1505-008	2023.07.20	1 Year
3.	Digital Thermo-Hygro Meter	iMax	HTC-1	RF-03	2023.04.13	1 Year



5. CONDUCTED EMISSION

The conducted emission voltage limits are not required for EUT which only employ DC power for operation

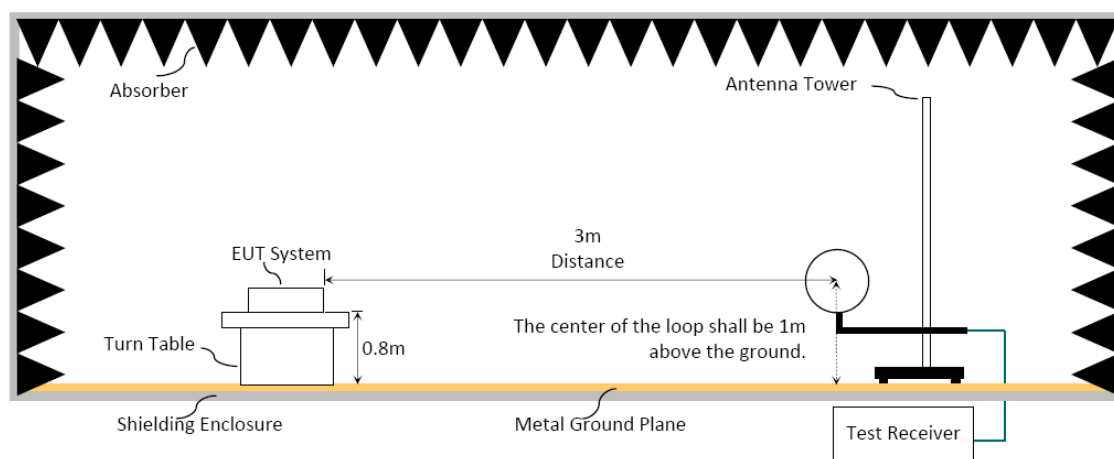
6. RADIATED EMISSION (IN-BAND)

6.1. Block Diagram of Test Setup

6.1.1. Block Diagram of EUT

Indicated as section 3.9

6.1.2. Setup Diagram for 9kHz-30MHz



6.2. Radiated Emission Limits

Frequency (MHz)	Distance (m)	Limits	
		$\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$
13.553-13.567	30	15848	84
	3	1584893	124
13.410 -13.553 and 13.567-13.710	30	334	50.50
	3	33381	90.50
13.110 -13.410 and 13.710-14.010	30	106	40.5
	3	10592	80.50

Remark : (1) $\text{dB}\mu\text{V/m} = 20 \log (\mu\text{V/m})$

(2) $15848\mu\text{V/m} = 84\text{dB}\mu\text{V/m} = 84 + 40\log(30\text{m}/3\text{m}) = 124\text{dB}\mu\text{V/m}$

$334\mu\text{V/m} = 50.5\text{dB}\mu\text{V/m} = 50.5 + 40\log(30\text{m}/3\text{m}) = 90.5\text{dB}\mu\text{V/m}$

$106\mu\text{V/m} = 40.5\text{dB}\mu\text{V/m} = 40.5 + 40\log(30\text{m}/3\text{m}) = 80.5\text{dB}\mu\text{V/m}$

6.3. Test Procedure

Frequency Range 9kHz~30MHz:

The EUT setup on the turn table which has 0.8 m height to the ground. The turn table rotated 360 degrees and antenna fixed to 1 m to find the maximum emission level.

In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2013 regulation.

(1) RBW = 9kHz with peak and average detector.

(2) Detector: average and peak (10kHz-490kHz)

Q.P. (490kHz-30MHz)

6.4. Test Results

Please refer to Appendix A.

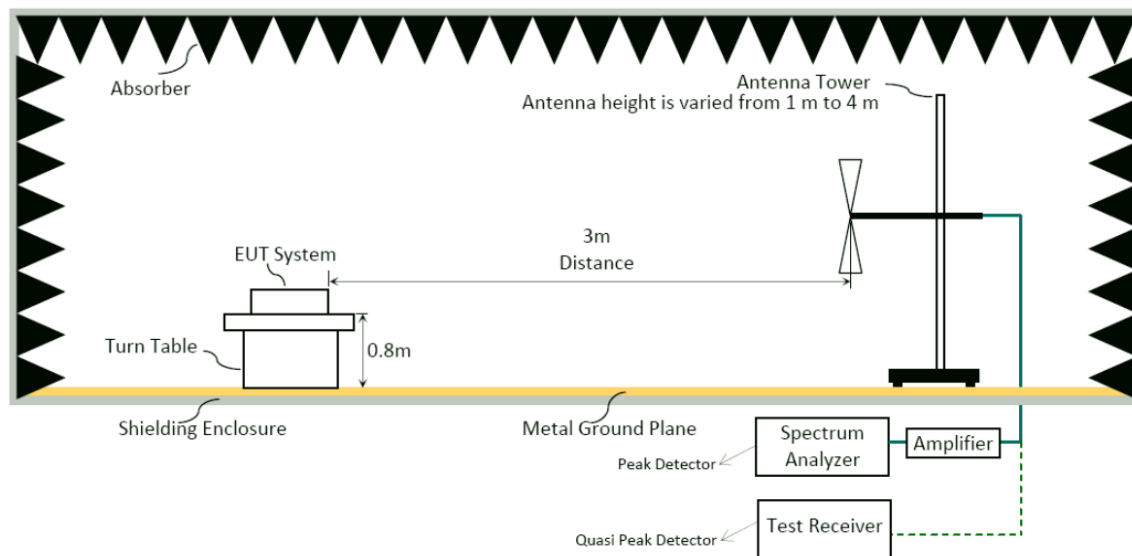
7. RADIATED EMISSION (OUT-BAND)

7.1. Block Diagram of Test Setup

7.1.1. Block Diagram of EUT

Indicated as section 3.9

7.1.2. Setup Diagram for 30-1000 MHz



7.2. Radiated Emission Limits

In any 100kHz bandwidth outside the frequency band, the radio frequency power produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level. In addition, radiated emissions which fall in restricted bands, as defined in Section 15.205 must also comply with the radiated emission limits specified as below.

Frequency (MHz)	Distance (m)	Limits	
		dB μ V/m	μ V/m
0.009 - 0.490	300	67.6-20 log f(kHz)	2400/f kHz
0.490 - 1.705	30	87.6-20 log f(kHz)	24000/f kHz
1.705 - 30	30	29.5	30
30 - 88	3	40.0	100
88- 216	3	43.5	150
216- 960	3	46.0	200
Above 960	3	54.0	500
Above 1000	3	74.0 dB μ V/m (Peak) 54.0 dB μ V/m (Average)	

Remark : (1) dB μ V/m = 20 log (μ V/m)

- (2) The tighter limit applies to the edge between two frequency bands.
- (3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- (4) Fundamental and emission fall within operation band are exempted from this section.
- (5) Pursuant to ANSI C63.10: 6.6.4.3, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.

7.4. Test Procedure

The EUT setup on the turn table which has 0.8 m height to the ground. The turn table rotated 360 degrees and antenna varied from 1 m to 4 m to find the maximum emission level. Both horizontal and vertical polarization are required. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10: 2013 regulation.

Frequency Range 30MHz~1GHz:

Spectrum Analyzer is used for pre-testing with following setting:

- (1) RBW = 120KHz
- (2) VBW $\geq 3 \times$ RBW.
- (3) Detector = Peak.
- (4) Sweep time = auto.
- (5) Trace mode = max hold.
- (6) Allow sweeps to continue until the trace stabilizes.

Note 1: When peak-detected value is lower than limit that the measurement using the Q.P. detector is not required, otherwise using Q.P. for final measurement.

Note 2: When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds.

7.5. Measurement Result Explanation

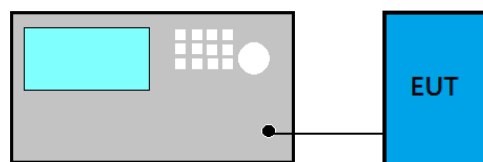
Peak Emission Level(dB μ V/m)=Antenna Factor(dB/m) + Cable Loss (dB)– Preamp Gain (dB)+ Reading(dB μ V).

7.6. Test Results

Please refer to Appendix A.

8. 20dB BANDWIDTH

8.1. Block Diagram of Test Setup



8.2. Specification Limits

The 20dB bandwidth shall be specified in operating frequency band.

8.3. Test Procedure

Following measurement procedure:

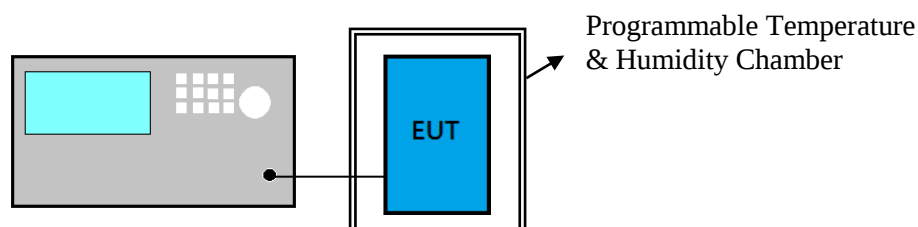
- (1) Set RBW to 1kHz.
- (2) Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
- (3) Detector = Peak.
- (4) Trace mode = max hold.
- (5) Sweep = auto couple.
- (6) Allow the trace to stabilize.
- (7) Setting channel bandwidth function x dB to -20 dB to record the final bandwidth.

8.4. Test Results

Please refer to Appendix A

9. FREQUENCY STABILITY

9.1. Block Diagram of Test Setup



9.2. Specification Limits

The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of -20 degrees to 50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degree C.

9.3. Test Procedure

The device operating in the 13.553-13.567MHz shall maintain the carrier frequency within 0.01% of the operating frequency over the temperature variation of -20 degrees to +50 degree C at normal supply voltage.

9.4. Test Results

Please refer to Appendix A



10.DEVIATION TO TEST SPECIFICATIONS

【NONE】



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APPENDIX A

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APPENDIX A

TEST DATA AND PLOTS

(Model: (1)EasyMax Tag (2)Tag-21 (3)Eco)

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A.1 RADIATED EMISSION (IN-BAND)

Test Date	2023/09/06	Temp./Hum.	24°C /68%
Test Voltage	DC 3V (via Battery)	Tested by	Harry Huang

Test Model	EasyMax Tag
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Antenna at 0 Degree

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
13.56	21.34	0.48	27.00	48.83	124.00	75.17	QP

Antenna at 90 Degree

Emission Frequency (kHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
13.56	21.34	0.48	23.10	44.93	124.00	79.07	QP

Note: All emissions are lower than the ambient level cannot be measured.

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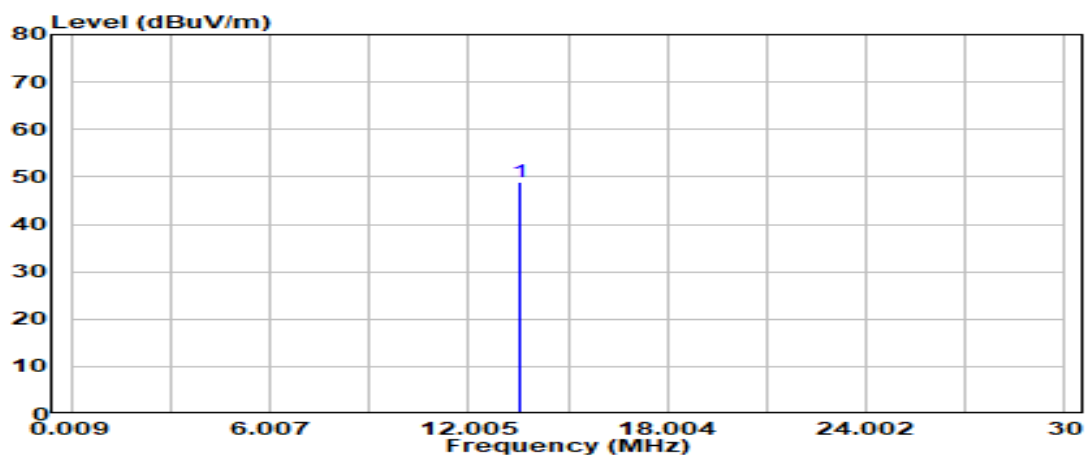
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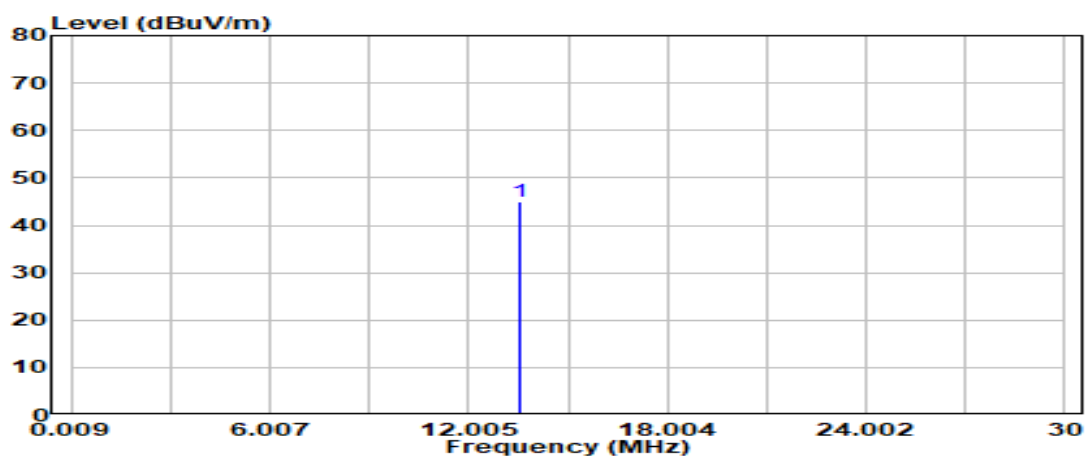
Test Model

EasyMax Tag

Antenna at 0 Degree



Antenna at 90 Degree



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Test Model	Tag-21
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Antenna at 0 Degree

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Read Level (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
13.56	21.34	0.48	27.20	49.03	124.00	74.97	QP

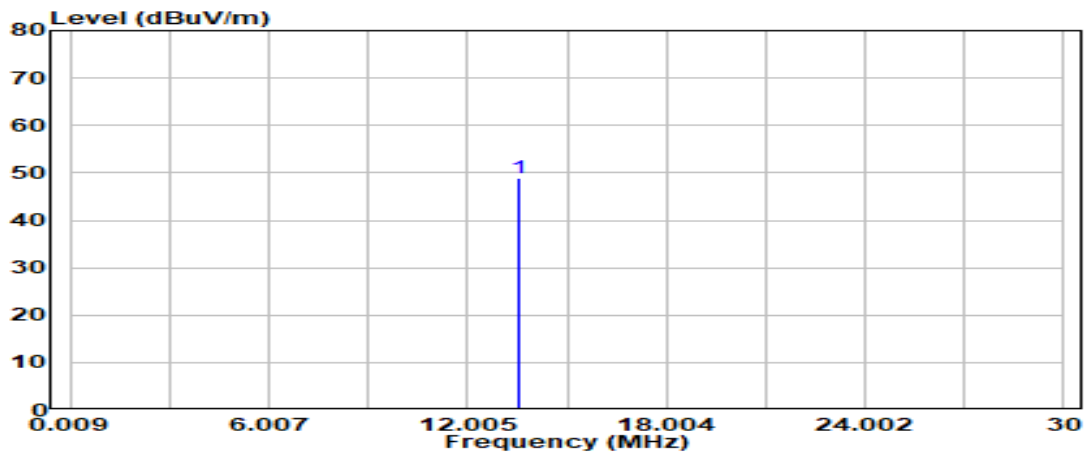
Antenna at 90 Degree

Emission Frequency (kHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Read Level (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
13.56	21.34	0.48	24.00	45.83	124.00	78.17	QP

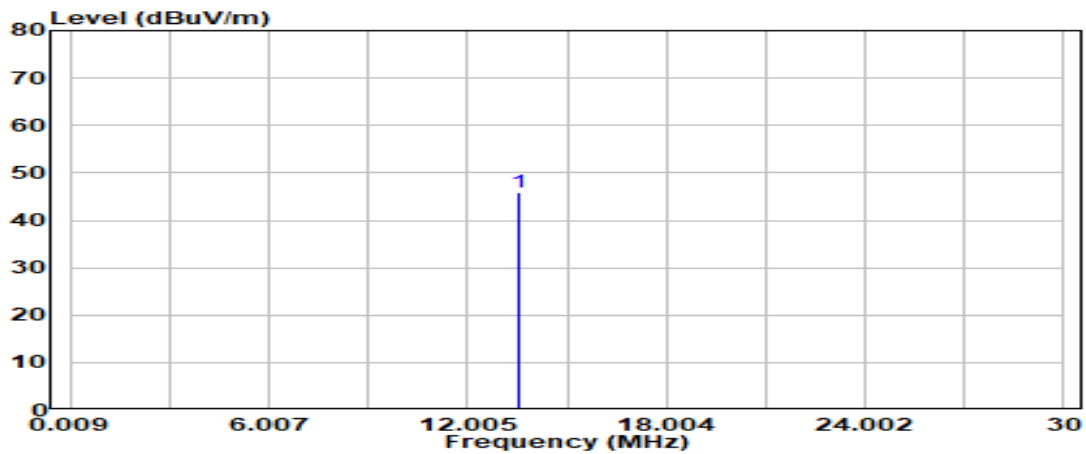
Note: All emissions are lower than the ambient level cannot be measured.

Test Model	Tag-21
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Antenna at 0 Degree



Antenna at 90 Degree



A.2 RADIATED EMISSION (OUT-BAND)

Test Date	2023/09/06	Temp./Hum.	24°C /68%
Test Voltage	DC 3V (via Battery)	Tested by	Harry Huang

A.2.1 Emissions within Restricted Frequency Bands

A.3.1.1 Frequency 9kHz~30MHz

Note: All emissions are lower than the ambient level cannot be measured.

A.3.1.2 Frequency 30MHz ~ 1000MHz

Test Model	EasyMax Tag
------------	-------------

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
41.000	18.86	1.66	26.47	30.02	24.07	40.00	15.93	Peak
129.000	17.55	2.96	26.11	32.49	26.90	43.50	16.60	Peak
378.000	21.04	5.69	26.28	33.35	33.80	46.00	12.20	Peak
540.000	23.63	6.90	27.24	32.43	35.72	46.00	10.28	Peak
761.000	24.88	7.99	27.33	33.01	38.55	46.00	7.45	Peak
970.000	26.73	9.14	26.76	33.71	42.82	54.00	11.18	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
34.000	22.49	1.51	26.48	30.62	28.13	40.00	11.87	Peak
102.000	16.84	2.64	26.28	36.22	29.43	43.50	14.07	Peak
378.000	21.04	5.69	26.28	33.62	34.07	46.00	11.93	Peak
535.000	23.59	6.89	27.23	33.17	36.42	46.00	9.58	Peak
653.000	24.53	7.39	27.42	32.76	37.26	46.00	8.74	Peak
969.000	26.73	9.13	26.76	32.91	42.01	54.00	11.99	Peak

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Test Model	Tag-21
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
34.000	22.49	1.51	26.48	30.74	28.26	40.00	11.74	Peak
135.000	17.34	3.03	26.07	31.46	25.76	43.50	17.74	Peak
378.000	21.04	5.69	26.28	34.27	34.71	46.00	11.29	Peak
617.000	24.40	7.20	27.41	32.44	36.63	46.00	9.37	Peak
779.000	24.93	8.09	27.30	32.85	38.56	46.00	7.44	Peak
971.000	26.74	9.14	26.75	32.04	41.17	54.00	12.83	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
33.000	22.85	1.48	26.48	31.04	28.89	40.00	11.11	Peak
102.000	16.84	2.64	26.28	35.03	28.23	43.50	15.27	Peak
378.000	21.04	5.69	26.28	34.71	35.16	46.00	10.84	Peak
489.000	22.98	6.68	27.06	32.76	35.36	46.00	10.64	Peak
929.000	26.44	8.92	26.89	33.37	41.85	46.00	4.15	Peak
985.000	26.85	9.21	26.71	31.95	41.31	54.00	12.69	Peak

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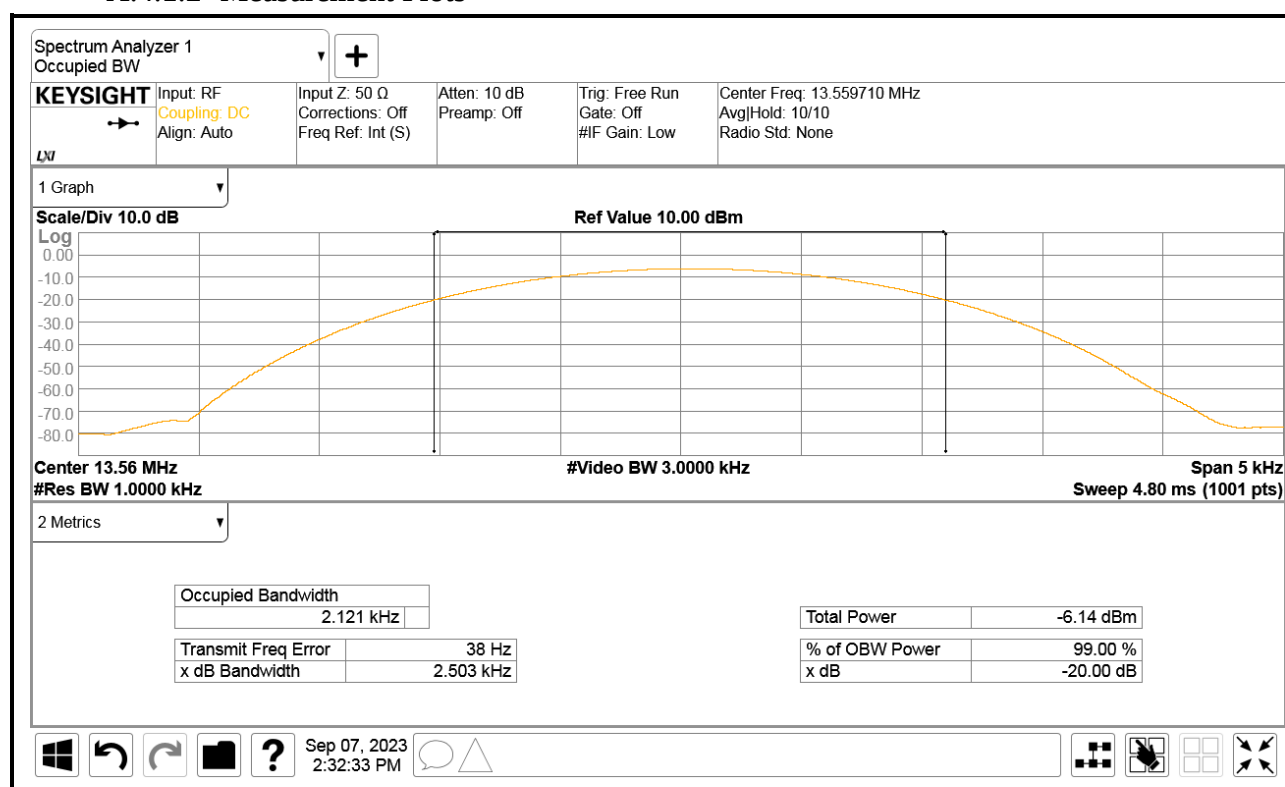
A.3 20dB BANDWIDTH

Test Date	2023/09/07	Temp./Hum.	24°C /62%
Test Voltage	DC 3V (via Battery)	Tested by	Harry Huang

A.4.1.1 20dB Bandwidth Result

Centre Frequency (MHz)	20 dB Bandwidth
13.56	2.503kHz

A.4.1.2 Measurement Plots



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A.4 FREQUENCY STABILITY

Test Date	2023/09/07	Temp./Hum.	24°C/62%
Test Normal Voltage	DC 2.55V or DC 3V or DC 3.45V (Via DC Power Supply)	Tested by	Harry Huang

Mode: 0 Minute					
Temperature(°C)	-20	-10	0	10	20
Voltage	DC 3V	DC 3V	DC 3V	DC 3V	DC 3.45V
Frequency(MHz)	13.55999	13.56028	13.56047	13.56023	13.56086
Error (%)	-0.00007	0.00206	0.00347	0.00170	0.00634
Temperature(°C)	20	30	40	50	20
Voltage	DC 2.55V	DC 3V	DC 3V	DC 3V	DC 3V
Frequency(MHz)	13.56092	13.56083	13.56076	13.56091	13.56000
Error (%)	0.00678	0.00612	0.00560	0.00671	0.00000

Mode: 2 Minute					
Temperature(°C)	-20	-10	0	10	20
Voltage	DC 3V	DC 3V	DC 3V	DC 3V	DC 3.45V
Frequency(MHz)	13.56002	13.56010	13.56012	13.56018	13.56014
Error (%)	0.00015	0.00074	0.00088	0.00133	0.00103
Temperature(°C)	20	30	40	50	20
Voltage	DC 2.55V	DC 3V	DC 3V	DC 3V	DC 3V
Frequency(MHz)	13.56011	13.56009	13.55995	13.55956	13.56082
Error (%)	0.00081	0.00066	-0.00037	-0.00326	0.00605

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Mode: 5 Minute					
Temperature(°C)	-20	-10	0	10	20
Voltage	DC 3V	DC 3V	DC 3V	DC 3V	DC 3.45V
Frequency(MHz)	13.56079	13.56035	13.56028	13.56022	13.56042
Error (%)	0.00583	0.00258	0.00206	0.00162	0.00310
Temperature(°C)	20	30	40	50	20
Voltage	DC 2.55V	DC 3V	DC 3V	DC 3V	DC 3V
Frequency(MHz)	13.55996	13.56024	13.56085	13.56035	13.56072
Error (%)	-0.00029	0.00177	0.00627	0.00258	0.00531

Mode: 10 Minute					
Temperature(°C)	-20	-10	0	10	20
Voltage	DC 3V	DC 3V	DC 3V	DC 3V	DC 3.45V
Frequency(MHz)	13.55998	13.56025	13.56083	13.56064	13.56048
Error (%)	-0.00015	0.00184	0.00612	0.00472	0.00354
Temperature(°C)	20	30	40	50	20
Voltage	DC 2.55V	DC 3V	DC 3V	DC 3V	DC 3V
Frequency(MHz)	13.56021	13.56027	13.56012	13.56081	13.56092
Error (%)	0.00155	0.00199	0.00088	0.00597	0.00678



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APPENDIX B

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APPDNDIX B

TEST PHOTOGRAPHS

(Model: (1)EasyMax Tag (2)Tag-21 (3)Eco)