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FCC 15.225
13.56MHz Test Report

for

EPS Bio Technology Corp.

No. 8 , R&D Rd. III , Hsinchu Science Park, Hsinchu County, Taiwan 30076

Product Name	**:**	**Blood Glucose Monitoring System**
Model Name	**:**	**(1)EMV4-01 (2)EASYMAX Voice**
FCC ID	**:**	**2AQBR-D070**

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

Testing Laboratory
1724

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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TABLE OF CONTENTS

Description Page

TEST REPORT 3
1. REVISION RECORD OF TEST REPORT 4
2. SUMMARY OF TEST RESULTS 5
3. GENERAL INFORMATION 6
3.1. Description of Application 6
3.2. Description of EUT 7
3.3. Reference Test Guidance 7
3.4. Antenna Information 8
3.5. EUT Specifications Assessed in Current Report 8
3.6. Description of Key Components 8
3.7. Test Configuration 8
3.8. Tested Supporting System List 8
3.9. Setup Configuration 9
3.10. Operating Condition of EUT 9
3.11. Description of Test Facility 9
3.12. Measurement Uncertainty 10
4. MEASUREMENT EQUIPMENT LIST 11
4.1. Radiated Emission Measurement 11
4.2. RF Measurement 11
5. CONDUCTED EMISSION 12
6. RADIATED EMISSION (IN-BAND) 13
6.1. Block Diagram of Test Setup 13
6.2. Radiated Emission Limits 14
6.3. Test Procedure 14
6.4. Test Results 14
7. RADIATED EMISSION (OUT-BAND) 15
7.1. Block Diagram of Test Setup 15
7.2. Radiated Emission Limits 16
7.4. Test Procedure 17
7.5. Measurement Result Explanation 17
7.6. Test Results 17
8. 20dB BANDWIDTH 18
8.1. Block Diagram of Test Setup 18
8.2. Specification Limits 18
8.3. Test Procedure 18
8.4. Test Results 18
9. FREQUENCY STABILITY 19
9.1. Block Diagram of Test Setup 19
9.2. Specification Limits 19
9.3. Test Procedure 19
9.4. Test Results 19
10. DEVIATION TO TEST SPECIFICATIONS 20
APPENDIX A TEST DATA AND PLOTS
APPENDIX B TEST PHOTOGRAPHS

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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)EMV4-01 (2)EASYMAX Voice
(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: 2025. 04. 02

Reviewed by: Sunnie Huang (Sunnie Huang/Administrator)

Approved by: Johnny Hsueh (Johnny Hsueh/Section Manager)

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1. REVISION RECORD OF TEST REPORT

Edition No	Issued Data	Revision Summary	Report Number
0	2025. 04. 02	Original Report	EM-F240583

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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.

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3. GENERAL INFORMATION

3.1. Description of Application

Applicant	EPS Bio Technology Corp. No. 8 , R&D Rd. III , Hsinchu Science Park, Hsinchu County, Taiwan 30076
Manufacturer	EPS Bio Technology Corp. No. 8 , R&D Rd. III , Hsinchu Science Park, Hsinchu County, Taiwan 30076
Product	Blood Glucose Monitoring System
Model	(1)EMV4-01 (2)EASYMAX Voice EMV4-01 is used for internal control and development purposes. EASYMAX Voice is the market model derived from EMV4-01. This report uses EMV4-01 as the test model.

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3.2. Description of EUT

Test Model	EMV4-01
Serial Number	N/A
Power Rating	DC 3V
RF Features	NFC
Transmit Type	1T1R
Test Sample	Sample No. / Test Item / Firmware: 03 / RSE / N/A
Sample Status	Production
Date of Receipt	2024. 11. 22
Date of Test	2024. 12. 30 ~ 31
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

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3.4. Antenna Information

No.	Antenna Part Number	Manufacture	Antenna Type	Frequency (MHz)	Max Gain (dBi)
1	N/A	N/A	Coil (PCB antenna)	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 Channel
Radiated Test Case	Radiated Spurious Emission (In-Band)	1
	Radiated Spurious Emission (Out-Band) Note1	1
	20dB Bandwidth	1
	Frequency Stability	1

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

3.8. Tested Supporting System List

3.8.1. Support Peripheral Unit

No.	Product	Brand	Model No.	Serial No.	Approval
1.	Mobile Phone	Xiaomi	MI803E1A	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.	AC Power Cord：Unshielded, Detachable, 1.8m DC Power Cable：Unshielded, Detachable, 0.8mx2

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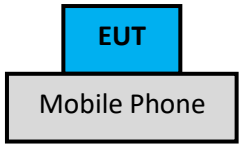
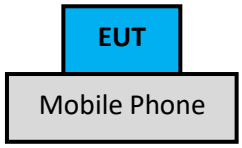
3.9. Setup Configuration

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 "EzGluco Tag APP" 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.1 3m Semi Anechoic Chamber

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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	±3.7dB
			200MHz-1000MHz, 3m, Horizontal	±3.4dB
	☐	No. 8 Shielded Room	30MHz-200MHz, 3m, Vertical	±3.7dB
			200MHz-1000MHz, 3m, Vertical	±3.4dB
Radiation Test	☒	No.1 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±4.0dB
			200MHz-1000MHz, 3m, Horizontal	±4.0dB
			30MHz-200MHz, 3m, Vertical	±4.8dB
			200MHz-1000MHz, 3m, Vertical	±4.5dB
			1GHz-6GHz, 3m	±4.2dB
			6GHz-18GHz, 3m	±4.0dB
	☐	No.3 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±3.9dB
			200MHz-1000MHz, 3m, Horizontal	±3.9dB
			30MHz-200MHz, 3m, Vertical	±4.6dB
			200MHz-1000MHz, 3m, Vertical	±4.3dB
			1GHz-6GHz, 3m	±4.6dB
			6GHz-18GHz, 3m	±4.1dB
	☐	No.4 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±4.4dB
			200MHz-1000MHz, 3m, Horizontal	±4.2dB
			30MHz-200MHz, 3m, Vertical	±4.9dB
			200MHz-1000MHz, 3m, Vertical	±5.1dB
			1GHz-6GHz, 3m	±4.4dB
			6GHz-18GHz, 3m	±4.0dB
	☐	No.5 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±4.2dB
			200MHz-1000MHz, 3m, Horizontal	±4.1dB
			30MHz-200MHz, 3m, Vertical	±4.9dB
			200MHz-1000MHz, 3m, Vertical	±4.6dB
			1GHz-6GHz, 3m	±4.4dB
			6GHz-18GHz, 3m	±4.0dB
	Radiated emissions (18GHz-40GHz)		18GHz-40GHz, 3m	±3.6dB

Remark：Uncertainty = kuc(y)

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

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4. MEASUREMENT EQUIPMENT LIST

4.1. Radiated Emission Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Keysight	N9010B-544	MY55460198	2024.03.21	1 Year
2.	Test Receiver	R&S	ESCS30	100338	2024.06.18	1 Year
3.	Microwave Amplifier	HP	8447D	2944A06305	2024.12.16	1 Year
4.	Bilog Antenna	TESEQ	CBL6112D	33821	2024.02.26	1 Year
5.	Loop Antenna	Electro-Metrics	EMCI-LPA600	287	2024.07.31	1 Year
6.	Coaxial Cable	HUBER+SUHNER	RG223/U	RE-33	2024.03.01	1 Year
7.	Coaxial Cable	MIYAZAKI	5D2W	CLAMP-01	2024.09.04	1 Year
8.	Coaxial Cable	MIYAZAKI	5D2W	RE-11	2024.01.04	1 Year
9.	Digital Thermo-Hygro Meter	iMax	HTC-1	No.1 3m A/C	2024.04.11	1 Year
10.	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	2024.02.05	1 Year
2.	Programmable Temperature & Humidity Chamber	GIANT	GTH-150-40 -CP-AR	MAA1505-008	2024.07.17	1 Year
3.	Digital Thermo-Hygro Meter	iMax	HTC-1	RF-03	2024.01.04	1 Year

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5. CONDUCTED EMISSION

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

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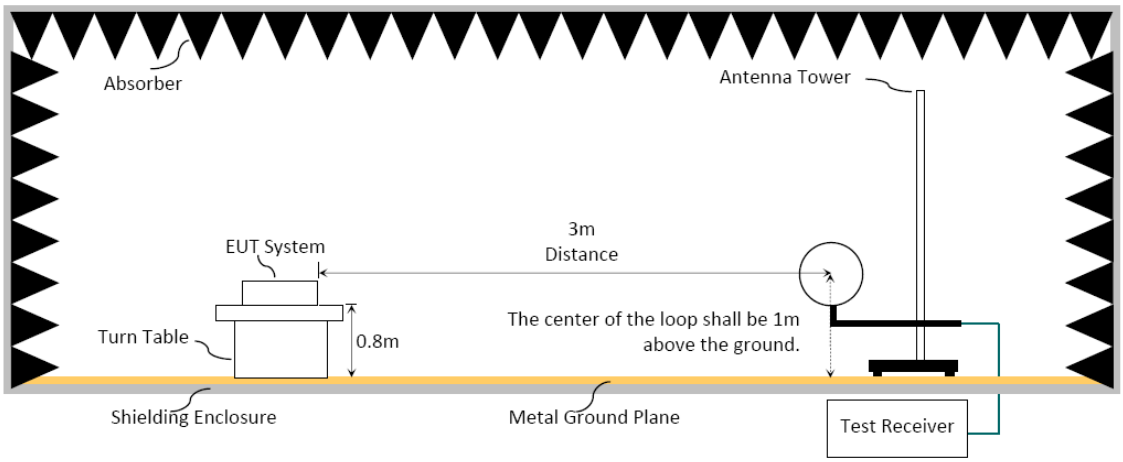
6. RADIATED EMISSION (IN-BAND)

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



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6.2. Radiated Emission Limits

Frequency (MHz)	Distance (m)	Limits	
		μV/m	dBμV/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) dBμV/m = 20 log (μV/m)
(2) 15848uV/m= 84dBuV/m=84+40log(30m/3m)=124dBuV/m
334uV/m= 50.5dBuV/m=50.5+40log(30m/3m)=90.5dBuV/m
106uV/m= 40.5dBuV/m=40.5+40log(30m/3m)=80.5dBuV/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.

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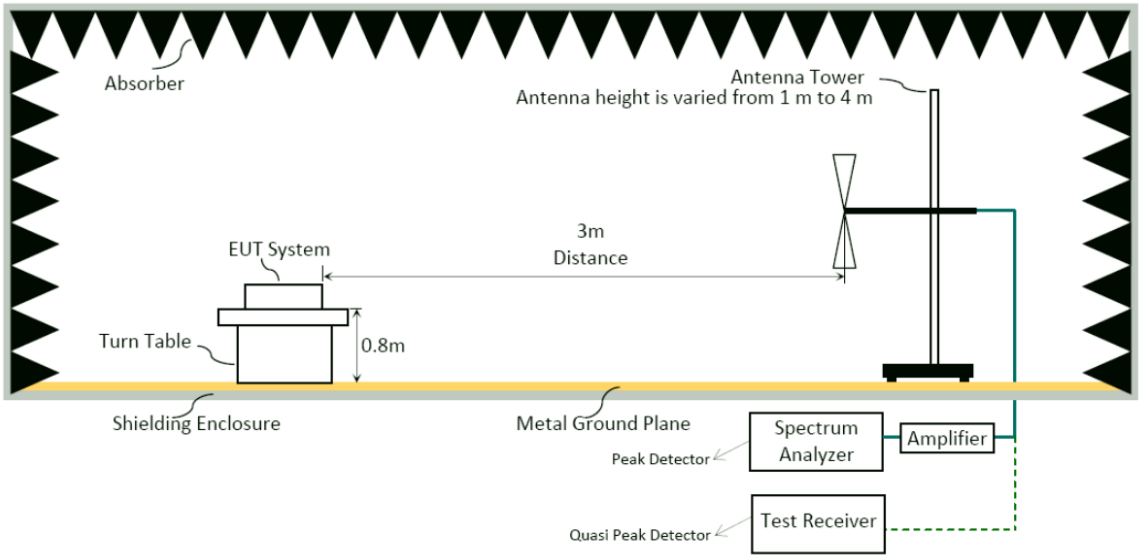
7. RADIATED EMISSION (OUT-BAND)

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



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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	
		dBμV/m	μV/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 dBμV/m (Peak) 54.0 dBμV/m (Average)	

Remark：(1) dBμV/m = 20 log (μV/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.

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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 ≥ 3 x 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(dBμV/m)=Antenna Factor(dB/m) + Cable Loss (dB)– Preamp Gain (dB)+ Reading(dBμV).

7.6. Test Results

Please refer to Appendix A.

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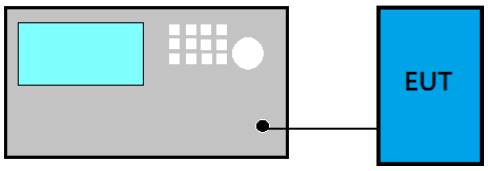
8. 20dB BANDWIDTH

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) ≥ 3 × 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

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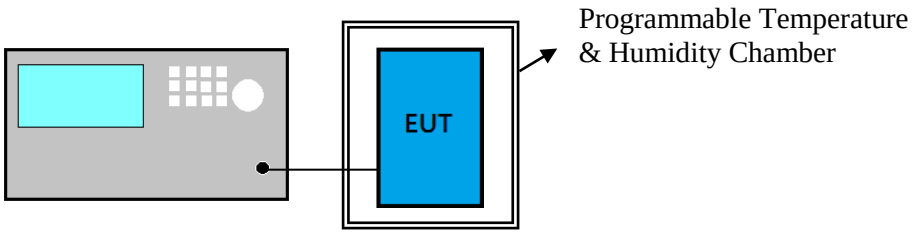
9. FREQUENCY STABILITY

9.1. Block Diagram of Test Setup



9.2. Specification Limits

The frequency tolerance of the carrier signal shall be maintained within ±0.01% of the operating frequency over a temperature variation of -20degrees 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

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10. DEVIATION TO TEST SPECIFICATIONS

【NONE】

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APPENDIX A

TEST DATA AND PLOTS

(Model: (1)EMV4-01 (2)EASYMAX Voice)

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Fax: +886 2 26099303

TABLE OF CONTENTS

A.1 RADIATED EMISSION (IN-BAND)..... 2
A.2 RADIATED EMISSION (OUT-BAND) 4
A.2.1 Emissions within Restricted Frequency Bands..... 4
A.3 20dB BANDWIDTH 5
A.4 FREQUENCY STABILITY 6

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A.1 RADIATED EMISSION (IN-BAND)

Test Date	2024/12/30	Temp./Hum.	21℃/65%
Test Voltage	DC 3V (via Battery)	Tested by	Sean Wang

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	37.59	0.41	13.38	51.38	124.00	72.62	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	37.59	0.41	7.37	45.37	124.00	78.63	QP

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

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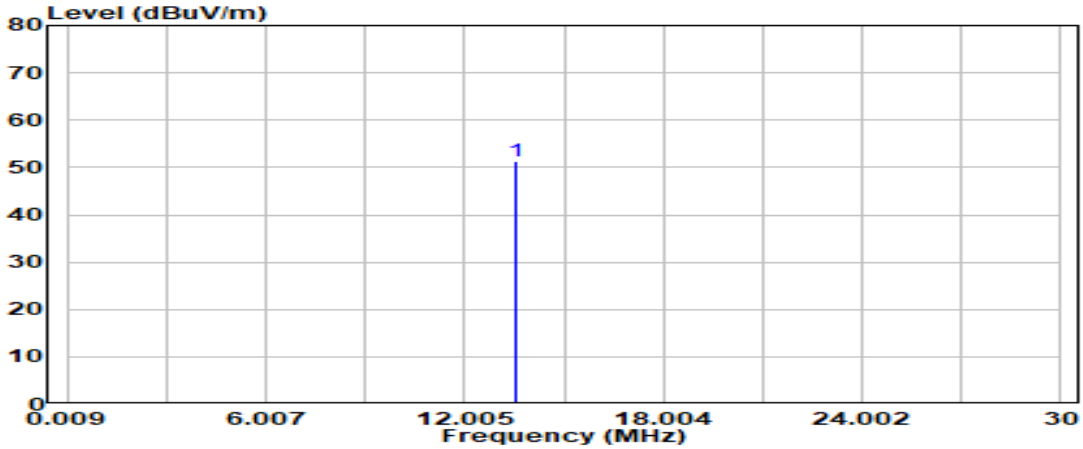
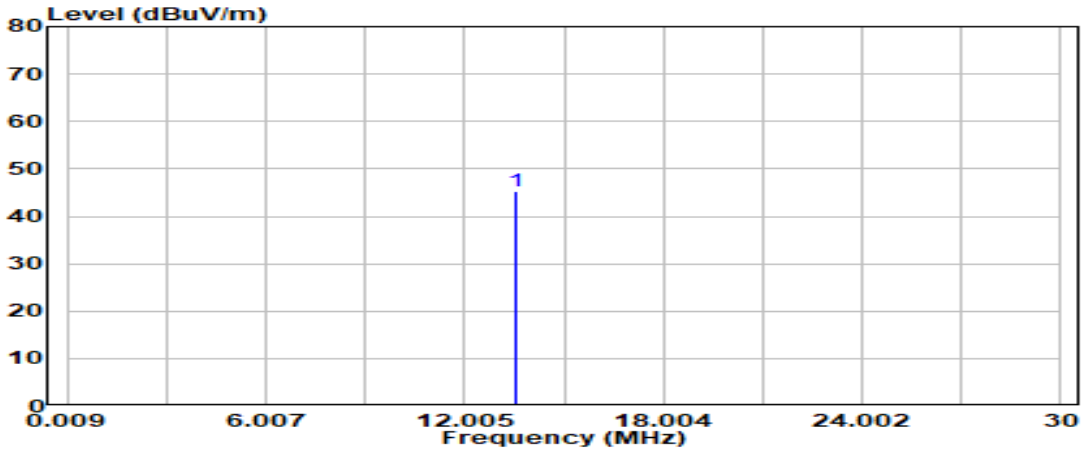
Antenna at 0 Degree



Antenna at 90 Degree



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A.2 RADIATED EMISSION (OUT-BAND)

Test Date	2024/12/30	Temp./Hum.	21℃/65%
Test Voltage	DC 3V (via Battery)	Tested by	Sean Wang

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

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
32.000	23.14	1.24	26.52	31.24	29.11	40.00	10.89	Peak
131.500	17.41	2.67	26.11	33.93	27.90	43.50	15.60	Peak
427.500	21.61	5.78	26.70	32.70	33.38	46.00	12.62	Peak
711.500	24.58	7.38	27.39	32.54	37.11	46.00	8.89	Peak
909.500	26.22	8.77	27.01	34.06	42.04	46.00	3.96	Peak
990.500	26.92	9.22	26.79	33.33	42.68	54.00	11.32	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
31.500	23.36	1.23	26.52	30.39	28.46	40.00	11.54	Peak
101.500	16.51	2.32	26.30	33.39	25.91	43.50	17.59	Peak
450.500	22.01	5.98	26.86	32.47	33.60	46.00	12.40	Peak
665.000	24.37	7.12	27.40	32.55	36.63	46.00	9.37	Peak
954.500	26.61	9.03	26.88	32.60	41.36	46.00	4.64	Peak
990.000	26.91	9.22	26.79	32.71	42.05	54.00	11.95	Peak

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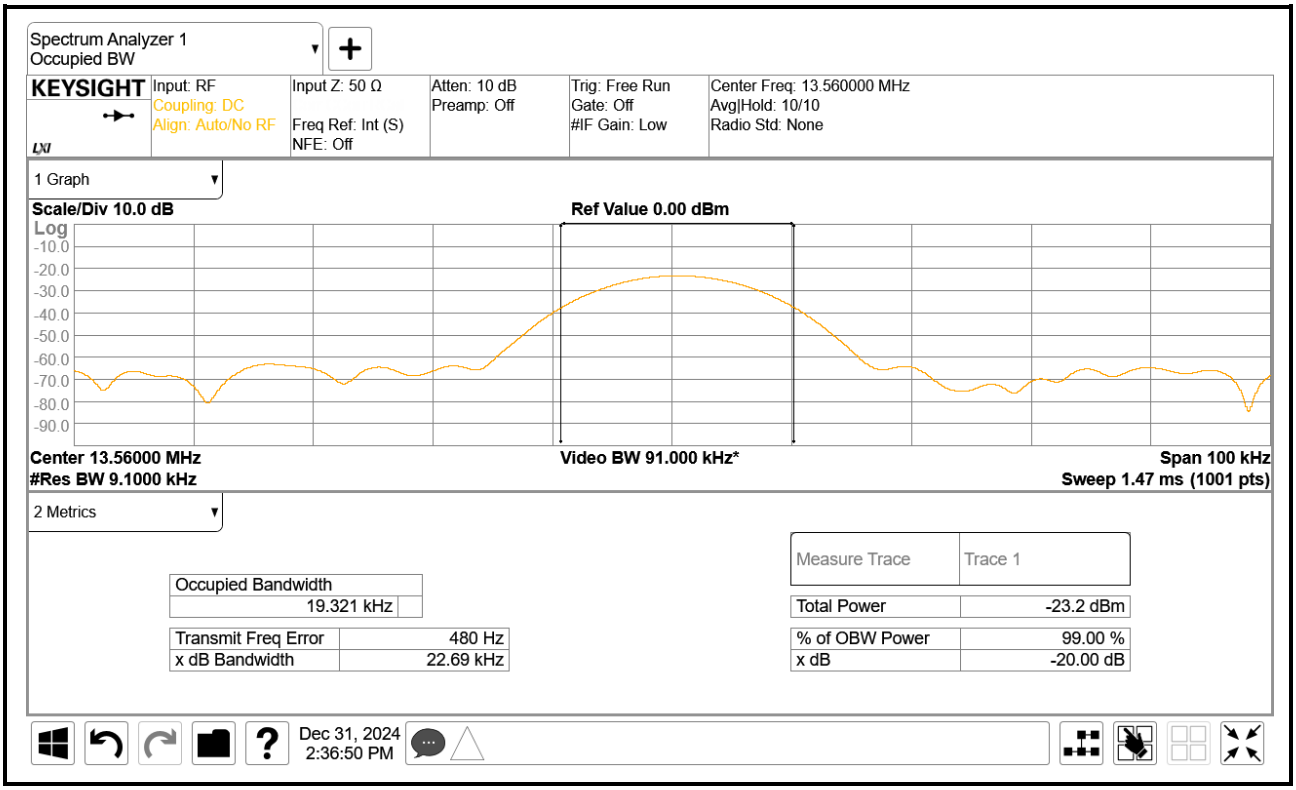
A.3 20dB BANDWIDTH

Test Date	2024/12/31	Temp./Hum.	22℃/58%
Test Voltage	DC 3V (via Battery)	Tested by	Sean Wang

A.4.1.1 20dB Bandwidth Result

Centre Frequency (MHz)	20 dB Bandwidth
13.56	22.69kHz

A.4.1.2 Measurement Plots



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A.4 FREQUENCY STABILITY

Test Date	2024/12/31	Temp./Hum.	22℃/58%
Test Normal Voltage	DC 2.55V or DC 3V or DC 3.45V (Via DC Power Supply)	Tested by	Sean Wang

Mode: 0 Minute					
Temperature(℃)	-20	-10	0	10	20
Voltage	DC 3V	DC 3V	DC 3V	DC 3V	DC 3.45V
Frequency(MHz)	13.55999	13.56014	13.56023	13.56015	13.56003
Error (%)	-0.00007	0.00103	0.00170	0.00111	0.00022
Temperature(℃)	20	30	40	50	20
Voltage	DC 2.55V	DC 3V	DC 3V	DC 3V	DC 3V
Frequency(MHz)	13.56018	13.56035	13.56032	13.56037	13.56021
Error (%)	0.00133	0.00258	0.00236	0.00273	0.00155

Mode: 2 Minute					
Temperature(℃)	-20	-10	0	10	20
Voltage	DC 3V	DC 3V	DC 3V	DC 3V	DC 3.45V
Frequency(MHz)	13.55985	13.55977	13.55983	13.55994	13.55995
Error (%)	-0.00111	0.00170	-0.00125	-0.00044	-0.00037
Temperature(℃)	20	30	40	50	20
Voltage	DC 2.55V	DC 3V	DC 3V	DC 3V	DC 3V
Frequency(MHz)	13.56012	13.56006	13.56015	13.56027	13.56024
Error (%)	0.00088	0.00044	0.00111	0.00199	0.00177

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Mode: 5 Minute					
Temperature(℃)	-20	-10	0	10	20
Voltage	DC 3V	DC 3V	DC 3V	DC 3V	DC 3.45V
Frequency(MHz)	13.55963	13.55961	13.55958	13.55967	13.55984
Error (%)	-0.00273	-0.00288	-0.00310	-0.00243	-0.00118
Temperature(℃)	20	30	40	50	20
Voltage	DC 2.55V	DC 3V	DC 3V	DC 3V	DC 3V
Frequency(MHz)	13.55968	13.55977	13.55963	13.55954	13.55960
Error (%)	-0.00236	-0.00170	-0.00273	-0.00339	-0.00295

Mode: 10 Minute					
Temperature(℃)	-20	-10	0	10	20
Voltage	DC 3V	DC 3V	DC 3V	DC 3V	DC 3.45V
Frequency(MHz)	13.56017	13.56008	13.55986	13.56003	13.56016
Error (%)	0.00125	0.00059	-0.00103	0.00022	0.00118
Temperature(℃)	20	30	40	50	20
Voltage	DC 2.55V	DC 3V	DC 3V	DC 3V	DC 3V
Frequency(MHz)	13.56035	13.56011	13.55994	13.56010	13.56023
Error (%)	0.00258	0.00081	-0.00044	0.00074	0.00170