



Project No: TM-2512000082P
Report No.: TMWK2512005698KR

FCC ID: KR5HFM501

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FCC 47 CFR PART 15 SUBPART C

TEST REPORT

For

Hand Free Module

Model No.: HFM501

Trade Name: Continental

Issued to

AUMOVIO Germany GmbH
Guerickestrasse 7, D-60488 Frankfurt am Main, Germany

Issued by

Compliance Certification Services Inc.
Wugu Laboratory
No.11, Wugong 6th Rd., Wugu Dist.,
New Taipei City, Taiwan.
Issued Date: April 10, 2026

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	April 10, 2026	Initial Issue	ALL	Peggy Tsai

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1. TEST RESULT CERTIFICATION

Applicant: AUMOVIO Germany GmbH
Guerickestrasse 7, D-60488 Frankfurt am Main, Germany

Manufacturer: AUMOVIO Germany GmbH
Guerickestrasse 7, D-60488 Frankfurt am Main, Germany

Factory: 1. AUMOVIO Automotive Changchun Co., Ltd.
(Jingyue Branch)
5800 Shengtai Street, Jingyue Hi-Tech Industrial
Development Zone, Changchun, 130000 Jilin, P.R. China
2. AUMOVIO GUADALAJARA MEXICO S. DE R.L. DE C.V.
Camino a la Tijera No. 3, La Tijera, 45647 Tlajomulco de
Zúñiga, Jalisco, Mexico

Equipment Under Test: Hand Free Module

Trade Name: Continental

Model No.: HFM501

Date of Test: December 23 ~ 24, 2025

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC 47 CFR Part 15 209	Compliance
Statements of Conformity	
Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.	

We hereby certify that:

All test results conform to above mentioned standards.

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10-2020 and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part15.203, Part15.207, Part15.209. Part15.215.

The test results of this report relate only to the tested sample identified in this report.

Approved by:



Shawn Wu
Supervisor

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2. EUT DESCRIPTION

Product	Hand Free Module			
Trade	Continental			
Model No.	HFM501			
Model Discrepancy	N/A			
Received Date	December 4, 2025			
Power Supply	Power from Power Supply (DC12V)			
Frequency Range	TX: 125 kHz			
Modulation Technique	ASK			
Number of Channels	1 Channel			
Antenna Requirement	Antenna Brand	Antenna Type	Antenna model no.	Antenna model no.
	Continental	Winded wire coil (ferrite core)	A3C 008 69 600 with clips	A3C 008 69 500 w/o clip
	Continental	Winded wire coil (ferrite core)	A3C 008 69 700 w/o clip	A3C 008 69 800 with 2 clips
	Nissan	Coil Antenna	251 50 6LA0C	-
	Continental	Winded wire coil (ferrite core)	A3C 035 11 200 w/o clip	A3C 059 68 600 with clips
EUT Serial #	450002563			
HW Version	P33C 433			
SW Version	F400			

Remark:

1. For more details, refer to the User's manual of the EUT.
2. Disclaimer: Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10-2020 and FCC CFR 47 Part 15.203, 15.207, 15.209, 15.215.

3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

3.2 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

- (a) Except as shown in other rules, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 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
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
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 -	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.52525	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	156.7 - 156.9	3260 - 3267	23.6 - 24.0
12.29 - 12.293	162.0125 - 167.17	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	167.72 - 173.2	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	240 - 285	3600 - 4400	(²)
13.36 - 13.41	322 - 335.4		

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

² Above 38.6

- (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

3.3 DESCRIPTION OF TEST MODES

The EUT had been tested under engineering test mode condition and the EUT staying in continuous transmitting mode.

3.3.1 The worst mode of measurement

Radiated Emission Measurement Below 1G	
Test Condition	Radiated Emission Below 1G
Power supply Mode	Mode 1: EUT power by Power Supply
Worst Mode	☒ Mode 1 ☐ Mode 2 ☐ Mode 3 ☐ Mode 4

Remark:

1. The worst mode was record in this test report.
2. EUT pre-scanned in three axis ,X,Y, Z and two polarity, for radiated measurement. The worst case(X-Plane) were recorded in this report.

4. TEST SUMMARY

FCC Standard Sec.	Chapter	Test Item	Result
15.203	2	Antenna Requirement	Pass
15.215	7.1	Occupied Bandwidth (99%) and 20dB Bandwidth	Pass
15.209 15.205	7.2	Radiated Emissions	Pass
15.207	7.3	AC Power-line Conducted Emission	N/A

5. INSTRUMENT CALIBRATION

5.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

5.2 MEASUREMENT EQUIPMENT USED

Equipment Used for Emissions Measurement

Conducted_FCC/IC/NCC (All)					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Cable	Woken	WC12	SS01	2025-06-26	2026-06-25
Constant Temperature Humidity Chamber	TERCHY	MHG-150LF	930619	2025-10-14	2026-10-13
Loop Antenna	COM-POWER	AL-130	121051	2025-02-18	2026-02-17
PXA Signal Analyzer	Keysight	N9030B	MY62291089	2025-09-24	2026-09-23
DC Power Source	GWINSTEK	GPC-3030D	8070184	2025-09-15	2026-09-14
Software	N/A				

966A_Radiated					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Signal Analyzer	KEYSIGHT	N9010A	MY52220817	2025-03-05	2026-03-04
Active Loop Antenna	COM-POWER	AL-130	121051	2025-02-18	2026-02-17
Thermo-Hygro Meter	HTC	HTC-1	HTC-D06	2025-05-26	2026-05-25
Bi-Log Antenna	Sunol Sciences	JB3	A030105&532	2025-06-26	2026-06-25
Preamplifier	EMEC	EM330	060609	2025-02-20	2026-02-19
Cable	Huber+Suhner	104PEA	20995+21000+182330	2025-08-06	2026-08-05
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Software	e3 V9-210616c				

Remark:

1. Each piece of equipment is scheduled for calibration once a year.
2. N.C.R. = No Calibration Request.

5.3 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	± 2.37 dB
Channel Bandwidth	± 2.85 dB
Radiated Emission_9kHz-30MHz	± 2.750 dB
Radiated Emission_30MHz-200MHz	± 3.874 dB
Radiated Emission_200MHz-1GHz	± 4.065 dB

Remark: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

5.4 FACILITIES AND TEST LOCATION

All measurement facilities used to collect the measurement data are located at No.11, Wugong 6th Rd., Wugu Dist., New Taipei City, Taiwan.

CAB identifier: TW1309

Test site	Test Engineer	Remark
AC Conduction Room	-	Not applicable, because EUT not connect to AC Main Source direct.
Radiation	Ben Yang	-
RF Conducted	Jerry Chang	-

Remark: The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC public Access Link (PAL) database, FCC Registration No. :444940, the FCC Designation No.:TW1309

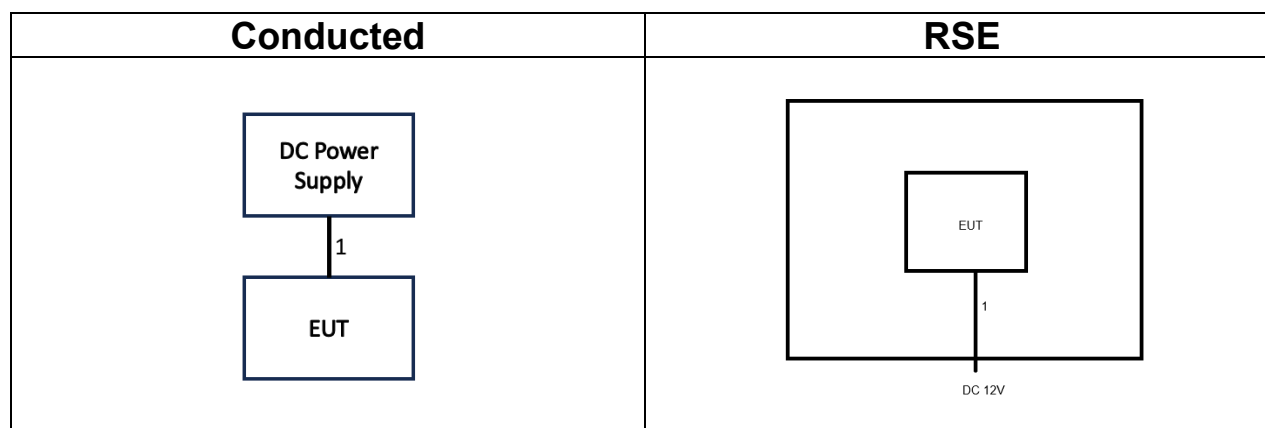
6. SETUP OF EQUIPMENT UNDER TEST

6.1 SUPPORT EQUIPMENT

EUT Accessories Equipment						
No.	Equipment	Brand	Model	Series No.	FCC ID	IC
	N/A					

Support Equipment (Conducted & RSE)					
No.	Equipment	Brand	Model	Series No.	FCC ID
1	DC Power Cable	MISUMI	MCR3S-RE	N/A	N/A

6.2 SETUP CONFIGURATION OF EUT



6.3 TEST PROGRAM

This EUT powered on to set the frequency, modulation and power to allow continuous transmission of the sample.

7. FCC PART 15.209 REQUIREMENTS

7.1 OCCUPIED BANDWIDTH(99%) AND 20 DB BANDWIDTH

TEST CONFIGURATION

Refer to section 6.2.

TEST PROCEDURE

According to FCC Part 15.215 (c) ,Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

In some cases, the “x dB bandwidth” is required, which is defined as the frequency range between two points, one at the lowest frequency below and one at the highest frequency above the carrier frequency, at which the maximum power level of the transmitted emission is attenuated x dB below the maximum in-band power level of the modulated signal, where the two points are on the outskirts of the in-band emission.

1. Place the EUT on the table and set it in the transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW & VBW (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth (VBW) shall not be smaller than three times the RBW value.
4. Record the max. reading.

TEST RESULTS

Compliance

TEST DATA

Temperature: 23.8°C

Test Date: December 23, 2025

Humidity: 55% RH

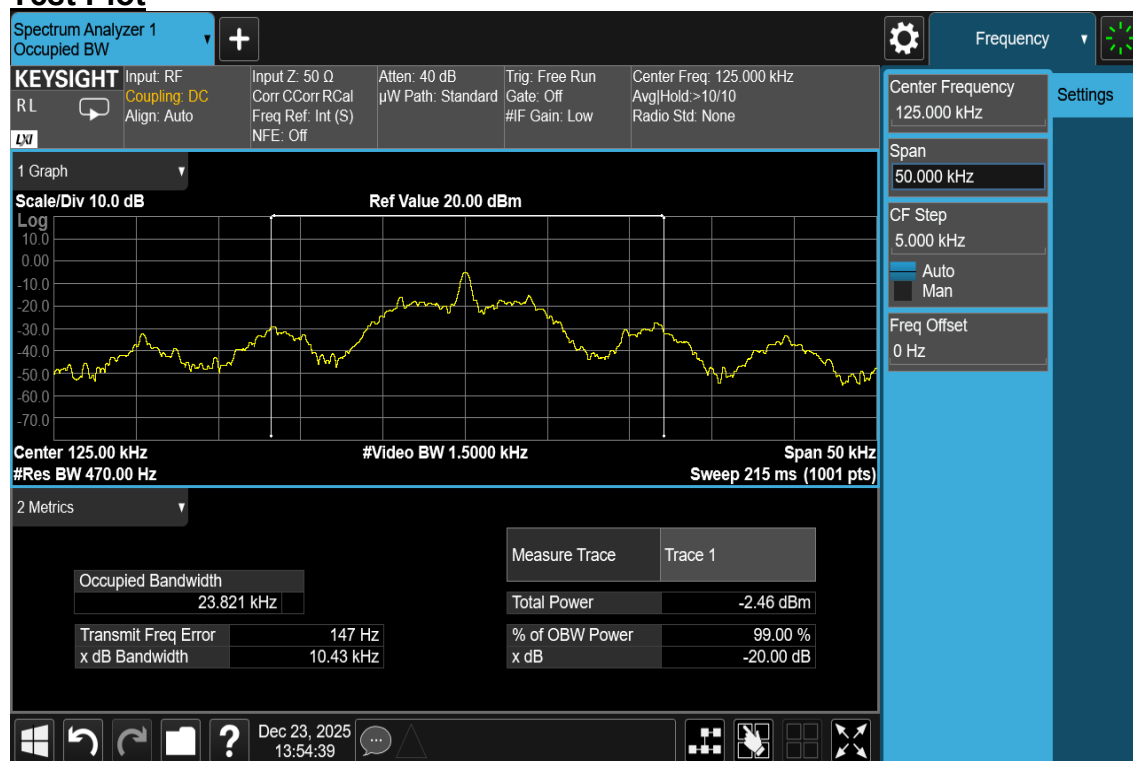
Tested by: Jerry Chang

Occupied Channel Bandwidth Result						
Modulation Mode	Frequency (F _c)	99% Bandwidth (kHz)	F _{SL} (kHz)	F _L BW (kHz)	F _H at 20dB BW (kHz)	F _{SH} at 20dB BW (kHz)
Full charging loading	125.147	23.821	113.237	137.058	119.932	130.362
Result		Complied				

Note

Because the measured signal adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice ~ three the RBW.

Test Plot



7.2 FUNDAMENTAL AND RADIATED EMISSIONS

LIMIT

According to FCC PART 15.209(a), except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ($\mu\text{V/m}$ at meter)	Measurement Distance (meter)
0.009 – 0.490	2400 / F (kHz)	300
0.490 – 1.705	24000 / F (kHz)	30
1.705 – 30.0	30	30
30 - 88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

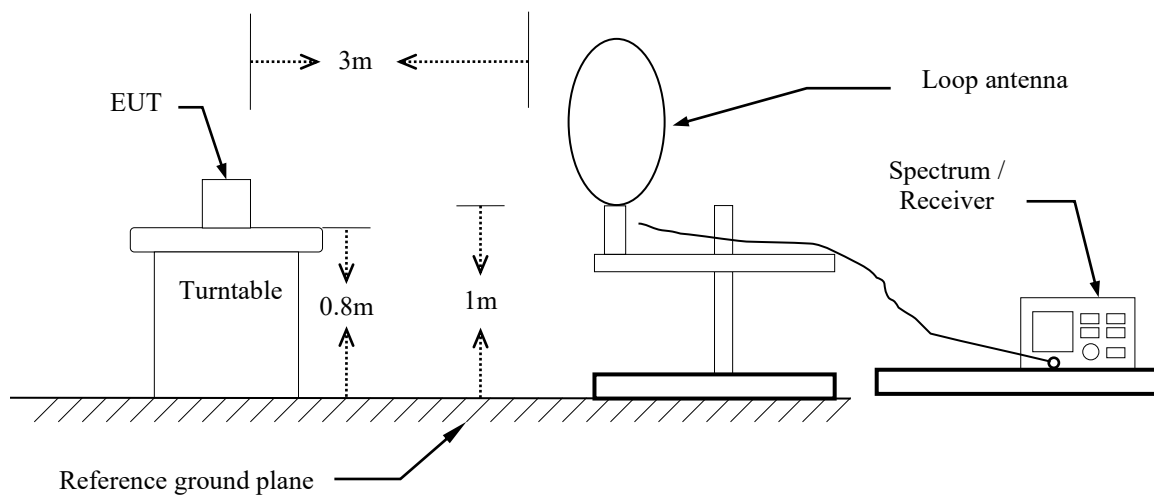
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this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

Above 30MHz

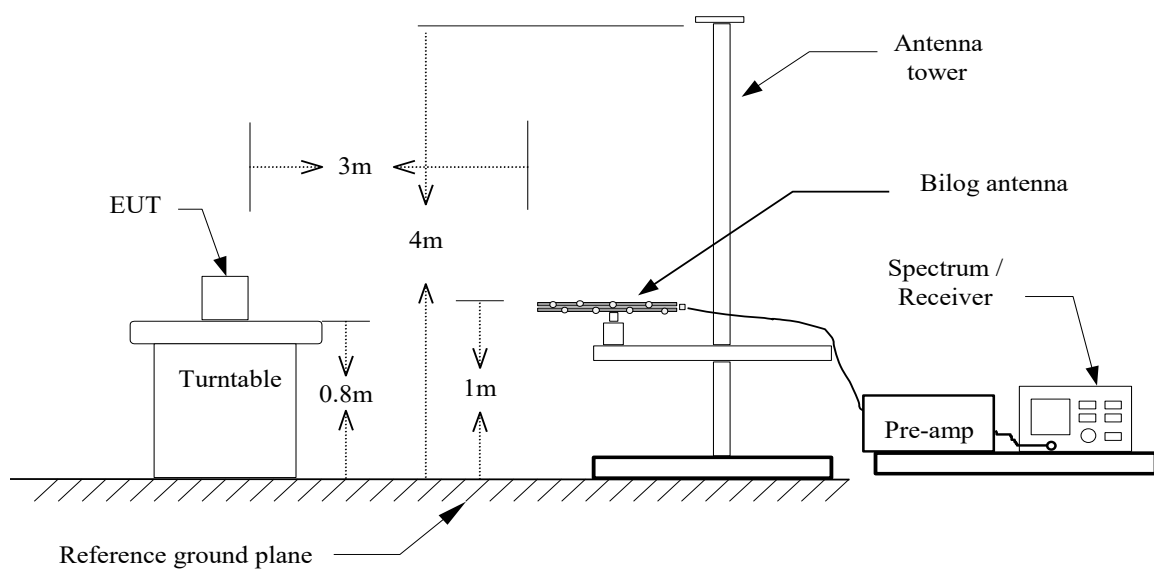
Frequency (MHz)	Field Strength		Measurement Distance (meter)
	($\mu\text{V/m}$)	(dB $\mu\text{V/m}$)	
30-88	100	40.0	3
88-216	150	43.5	3
216-960	200	46.0	3
Above 960	500	54.0	3

Test Configuration

9kHz ~ 30MHz



30MHz ~ 1GHz



TEST PROCEDURE

For 9kHz ~ 30MHz

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, The lower edge of the loop shall be 1 m above the ground then to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. Set the spectrum analyzer in the following setting as:
9KHz-490KHz : RBW=200Hz / VBW=1kHz / Sweep=AUTO
490KHz-30MHz : RBW=10kHz / VBW=30kHz / Sweep=AUTO
6. Repeat above procedures until the measurements for all frequencies are complete.

For 30MHz ~ 1GHz

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Set the spectrum analyzer in the following setting as:
RBW=100kHz / VBW=300kHz / Sweep=AUTO
7. Repeat above procedures until the measurements for all frequencies are complete.

Remark :

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open area test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

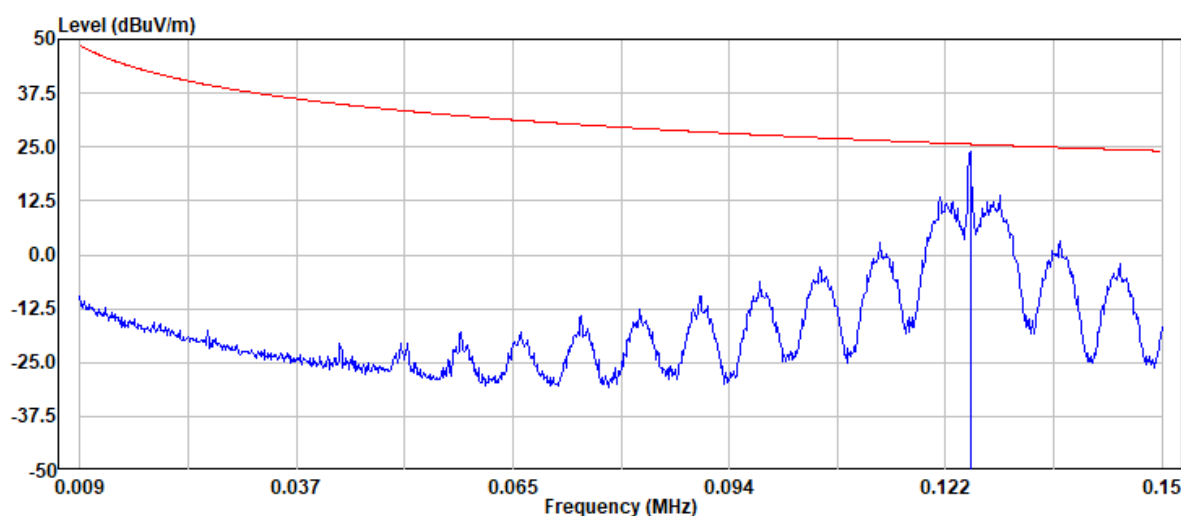
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Fundamental Strength

Project No : TM-2512000082P
Operation Band : 125K
Frequency : 125 KHz
Operation Mode : Main
EUT Pol : E2
Setting :

Test Date : 2025-12-24
Temp./Humi. : 25.4/54
Antenna Pol. : HORIZONTAL
Engineer : Ben.Yang
Test Chamber : 966A



Freq	Read Level @3m	Factor @3m	Actual @3m	Factor @300m	Actual @300m	Limit	Margin	Detector Mode
MHz	dBuV	dB	dBuV/m	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
0.125	90.70	13.24	103.94	-80.00	23.94	--	--	Peak
0.125	87.55	13.24	100.79	-80.00	20.79	25.66	-4.87	Average

Remark:

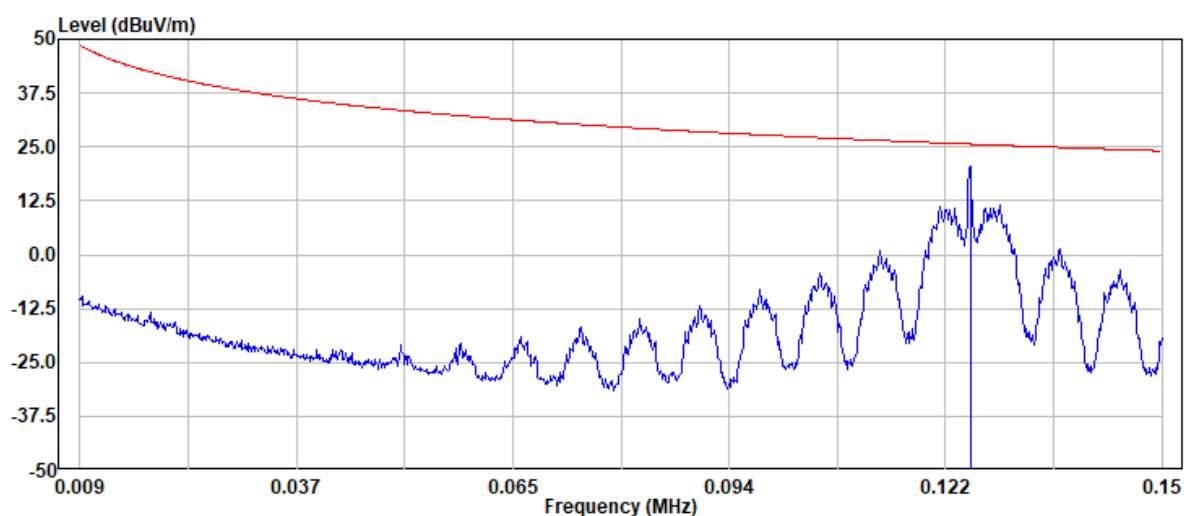
1. Radiated emissions measured were made with an instrument using peak/quasi-peak/average detector mode.
2. Margin (dB) = Result (dBuV/m) – Limit (dBuV/m).
3. Result=Read level+Factor@3m-Distance factor
4. Distance factor=40log(300m/3m)
5. Factor=antenna factor+cable loss

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Project No : TM-2512000082P
Operation Band : 125K
Frequency : 125 KHz
Operation Mode : Main
EUT Pol : E2
Setting :

Test Date : 2025-12-24
Temp./Humi. : 25.4/54
Antenna Pol. : VERTICAL
Engineer : Ben.Yang
Test Chamber : 966A



Freq	Read Level @3m	Factor @3m	Actual @3m	Factor @300m	Actual @300m	Limit	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
0.125	87.17	13.24	100.41	-80.00	20.41	--	--	Peak
0.125	85.14	13.24	98.38	-80.00	18.38	25.66	-7.28	Average

Remark:

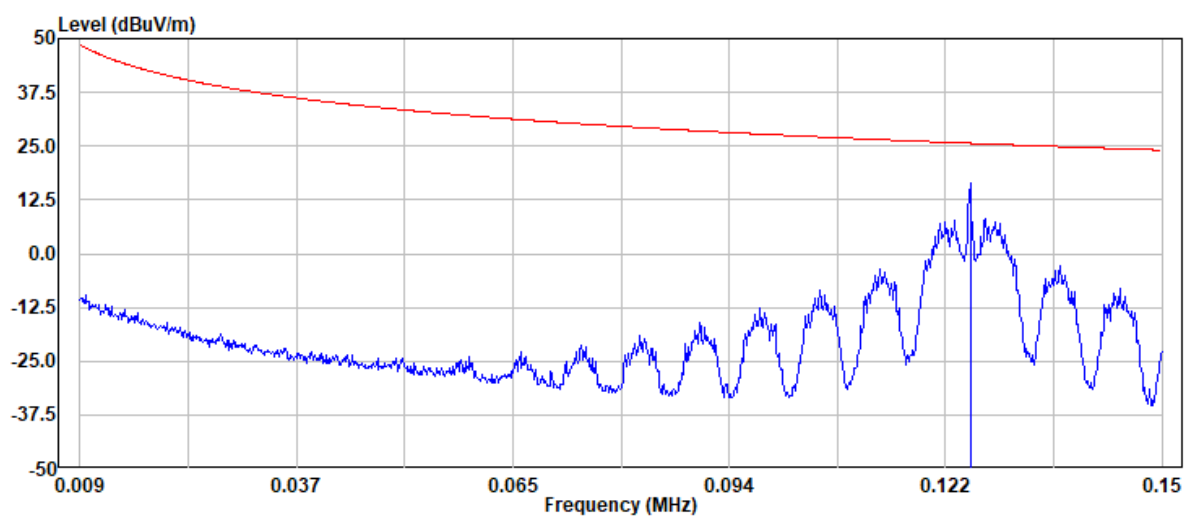
1. Radiated emissions measured were made with an instrument using peak/quasi-peak/average detector mode.
2. Margin (dB) = Result (dBuV/m) – Limit (dBuV/m).
3. Result=Read level+Factor@3m-Distance factor
4. Distance factor=40log(300m/3m)
5. Factor=antenna factor+cable loss

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Project No : TM-2512000082P
Operation Band : 125K
Frequency : 125 KHz
Operation Mode : Main
EUT Pol : E2
Setting :

Test Date : 2025-12-24
Temp./Humi. : 25.4/54
Antenna Pol. : GROUND
Engineer : Ben.Yang
Test Chamber : 966A



Freq	Read Level @3m	Factor @3m	Actual @3m	Factor @30m @300m	Actual @30m @300m	Limit	Margin	Detector Mode
----- MHz	----- dBuV	----- dB	----- dBuV/m	----- dB	----- dBuV/m	----- dBuV/m	----- dB	----- PK/QP/AV
0.125	83.10	13.24	96.34	-80.00	16.34	--	--	Peak
0.125	80.39	13.24	93.63	-80.00	13.63	25.66	-12.03	Average

Remark:

1. Radiated emissions measured were made with an instrument using peak/quasi-peak/average detector mode.
2. Margin (dB) = Result (dBuV/m) – Limit (dBuV/m).
3. Result=Read level+Factor@3m-Distance factor
4. Distance factor=40log(300m/3m)
5. Factor=antenna factor+cable loss

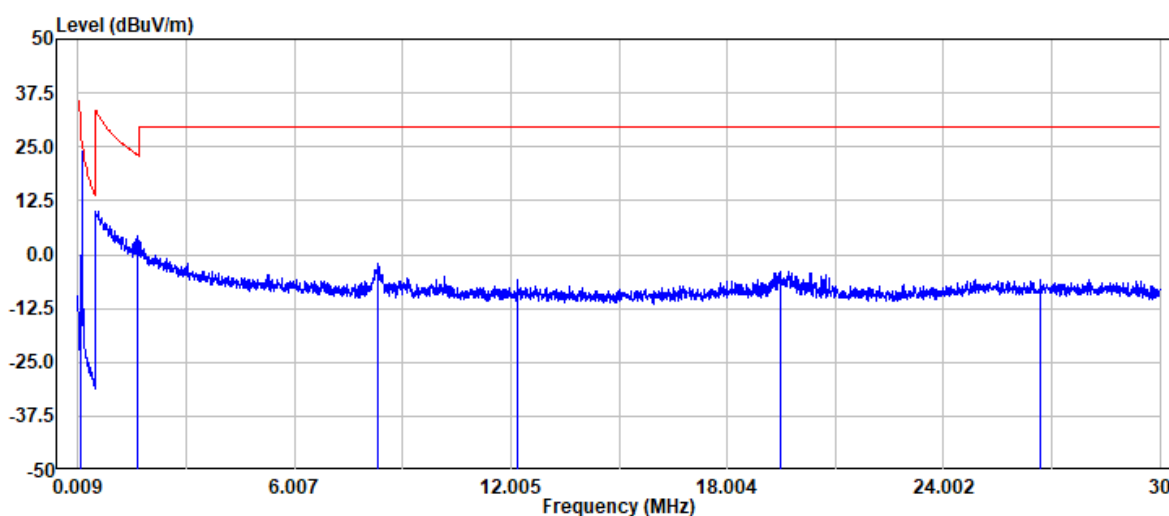
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9kHz ~ 30MHz

Project No : TM-2512000082P
Operation Band : 125K
Frequency : 125 KHz
Operation Mode : TX
EUT Pol : E2
Setting :

Test Date : 2025-12-24
Temp./Humi. : 25.4/54
Antenna Pol. : HORIZONTAL
Engineer : Ben.Yang
Test Chamber : 966A



Freq	Read Level @3m	Factor @3m	Actual @3m	Factor @30m @300m	Actual @30m @300m	Limit	Margin	Detector Mode
----- MHz	----- dBuV	----- dB	----- dBuV/m	----- dB	----- dBuV/m	----- dBuV/m	----- dB	----- PK/QP/AV
0.11	64.20	13.14	77.34	-80.00	-2.66	27.14	-29.80	Peak
1.65	30.32	14.12	44.44	-40.00	4.44	23.24	-18.80	Peak
8.32	22.44	15.39	37.83	-40.00	-2.17	29.54	-31.71	Peak
12.20	17.74	16.37	34.11	-40.00	-5.89	29.54	-35.43	Peak
19.49	18.98	17.20	36.18	-40.00	-3.82	29.54	-33.36	Peak
26.68	16.07	18.23	34.30	-40.00	-5.70	29.54	-35.24	Peak

Remark:

1. Radiated emissions measured were made with an instrument using peak/quasi-peak/average detector mode.
2. Margin (dB) = Result (dBuV/m) – Limit (dBuV/m).
3. Result=Read level+Factor@3m-Distance factor
4. Distance factor=40log(300m/3m)@9-490kHz ; 40log(30m/3m)@490kHz-30MHz
5. 9kHz to 490kHz Limit(@300m) = 2400/F(kHz)
490kHz to 1.705MHz Limit (@30m) = 24000/F(kHz)
1.705MHz to 30MHz Limit (@30m) = 29.54

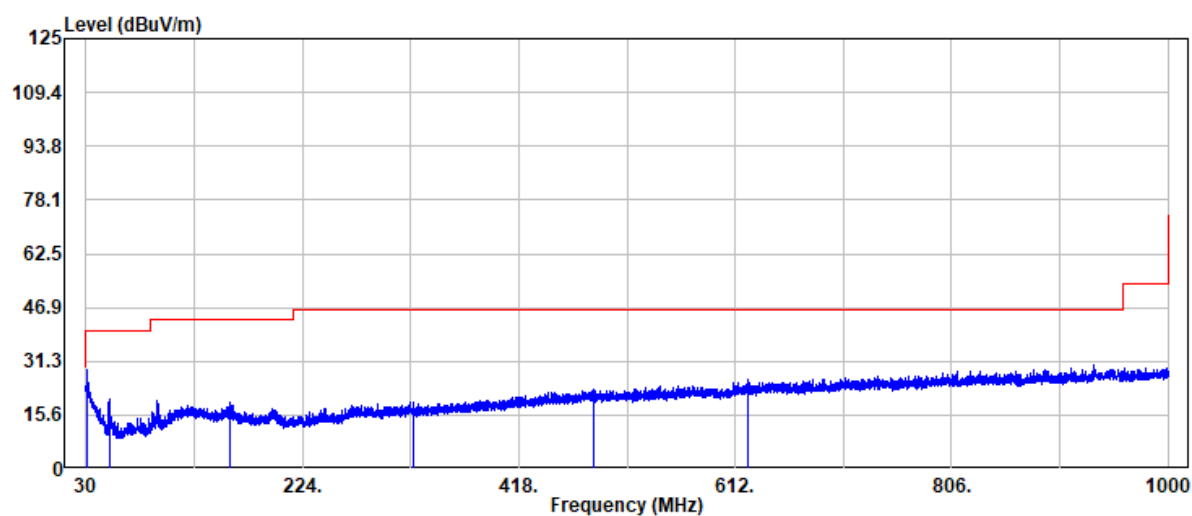
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30MHz ~ 1GHz

Project No : TM-2512000082P
Operation Band : 125K
Frequency : 125 KHz
Operation Mode : TX
EUT Pol : E2
Setting :

Test Date : 2025-12-24
Temp./Humi. : 25.4/54
Antenna Pol. : VERTICAL
Engineer : Tony.Chao
Test Chamber : 966A



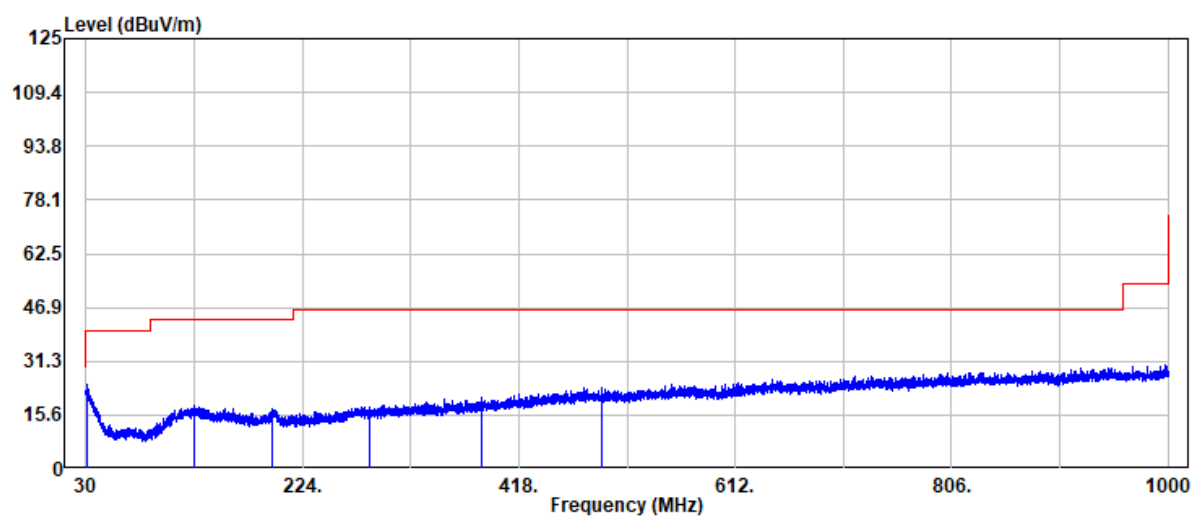
Freq	Read	Factor	Actual	Limit	Margin	Detector
MHz	Level		FS	@3m		Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
31.30	32.39	-3.62	28.77	40.00	-11.23	Peak
50.80	36.29	-15.96	20.33	40.00	-19.67	Peak
159.80	30.38	-11.10	19.28	43.50	-24.22	Peak
323.80	28.21	-8.82	19.39	46.00	-26.61	Peak
485.00	27.41	-4.44	22.97	46.00	-23.03	Peak
622.90	28.14	-2.25	25.89	46.00	-20.11	Peak

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Project No : TM-2512000082P
Operation Band : 125K
Frequency : 125 KHz
Operation Mode : TX
EUT Pol : E2
Setting :

Test Date : 2025-12-24
Temp./Humi. : 25.4/54
Antenna Pol. : HORIZONTAL
Engineer : Tony.Chao
Test Chamber : 966A



Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
30.90	27.78	-3.39	24.39	40.00	-15.61	Peak
126.90	27.89	-9.66	18.23	43.50	-25.27	Peak
197.00	28.17	-10.66	17.51	43.50	-25.99	Peak
283.90	27.67	-9.54	18.13	46.00	-27.87	Peak
384.10	28.07	-7.40	20.67	46.00	-25.33	Peak
492.70	27.79	-4.42	23.37	46.00	-22.63	Peak

7.3 AC POWERLINE CONDUCTED EMISSIONS

LIMIT

According to §15.207(a) for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency Range (MHz)	Limits (dB μ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5	56	46
5 to 30	60	50

* Decreases with the logarithm of the frequency.

TEST PROCEDURE

Test method Refer as ANSI C63.10-2020 clause 6.2,

1. The EUT was placed on a table, which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

TEST RESULTS

Not applicable, because EUT not connect to AC Main Source direct.

- End of Test Report -