

Prüfbericht-Nr.: Test report no.:	CN25AUX8 001	Auftrags-Nr.: Order no.:	168564786	Page 1 of 15 Seite 1 von 15
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2025-07-08	
Auftraggeber: Client:	reMarkable AS Fridtjof Nansens Vei 12 0369 OSLO Norway			
Prüfgegenstand: Test item:	reMarkable RM04D			
Bezeichnung / Typ-Nr.: Identification / Type no.:	RM04D (Trademark: reMarkable)			
Auftrags-Inhalt: Order content:	Type test			
Prüfgrundlage: Test specification:	CFR47 FCC Part 15: Subpart C Section 15.201 CFR47 FCC Part 15: Subpart C Section 15.209		RSS-210 Issue 11 June 2024 RSS-Gen Issue 5 February 2021	
Wareneingangsdatum: Date of sample receipt:	2025-07-02	Refer to the photo document		
Prüfmuster-Nr.: Test sample no.:	A004035961			
Prüfzeitraum: Testing period:	2025-07-29 – 2025-08-08			
Ort der Prüfung: Place of testing:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:			genehmigt von: authorized by:	
Datum: Date:	2026-02-28 Signed by: Harry W. C. Wu		Ausstellungsdatum: Issue date:	2026-02-28 Signed by: Alex Lan
Stellung / Position:	Project Manager		Stellung / Position:	Authorizer
Sonstiges / Other:	FCC ID: 2AMK2-RM04DA IC: 22859-RM04DA, HVIN: RM04DA			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
* Legend:	P(ass) = passed a.m. test specification(s)	F(ail) = failed a.m. test specification(s)	N/A = not applicable	N/T = not tested
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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Remarks
Anmerkungen

1	The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request. <i>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben.</i> <i>Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</i>
2	As contractually agreed, this document has been signed digitally only. TÜV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TÜV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged. <i>Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben.</i>
3	Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report. Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report. <i>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</i>
4	The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019. <i>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</i>

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Test Summary

5.1 CONDUCTED EMISSIONS

RESULT: Pass

5.2 RADIATED EMISSIONS

RESULT: Pass

6.1.1 ELECTROMAGNETIC FIELDS

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test setup photo.

Appendix B: Test result.

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, People's Republic of China

FCC Registration No.: CN1260

IC Registration No.: 25069 and the CAB identifier is CN0078.

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2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Description	Manufacturer	Model	Serial No.	Calibrated Date (DD.MM.YYYY)	Calibrated until (DD.MM.YYYY)
EMI Test Receiver	R&S	ESR 7	102021	22.09.2025	21.09.2026
Signal Analyzer	R&S	FSV 40	101439	22.09.2025	21.09.2026
System Controller Interface	R&S	SCI-100	S10010038	N/A	N/A
Filterbank	R&S	Wlan	100759	22.09.2025	21.09.2026
OSP	R&S	OSP 120	102040	N/A	N/A
Pre-amplifier	R&S	SCU08F1	08320031	22.09.2025	21.09.2026
Amplifier	R&S	SCU-18F	180070	22.09.2025	21.09.2026
Amplifier	R&S	SCU40A	100475	22.09.2025	21.09.2026
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	28.09.2024	27.09.2026
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	28.09.2024	27.09.2026
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	28.09.2024	27.09.2026
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	28.09.2024	27.09.2026
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC1715 1-SAC	14.09.2024	13.09.2027

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements are $\pm 3\text{dB}$.

2.6 Location of Original Data

The original copies of all test data taken during actual testing were in this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at 2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, People's Republic of China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The product is active stylus and operate with a drawing board, the pen tip supports USI (110.1-489.9kHz) and the pen tail supports NFC Wireless charging (receiver 13.56MHz) technologies.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

General Information of EUT	Value
Product Name:	reMarkable RM04D
Model No.:	RM04D
Trademark:	reMarkable
Operating Voltage:	DC 3.85V, 80mAh via built-in battery Or DC 4.4V, 60mA, 500mW maximum via NFC wireless charging (NFC is receiver)
Operating frequency	USI: 111 – 490kHz NFC: 13.56MHz
Operating Temperature Range:	-5 °C ~ 50 °C
Technical Specification of USI	
Operating Frequency	110.1 kHz ~ 489.9 kHz
Type of Modulation	CW
Antenna Type	Integral Antenna
Antenna number	1
Antenna Gain	0 dBi Max

Note: This device is too low to measure the actual occupied bandwidth and fundamental emissions, thus 379kHz maximum occupied bandwidth and 41.96 dB μ V@3m declared by applicant. Also, IC inquiry for this provided.

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, operating
- B. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- | | |
|--------------------|------------------|
| - Application Form | - Photo Document |
| - Block Diagram | - Schematics |
| - User Manual | |

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024.

4.3 Special Accessories and Auxiliary Equipment

Table 3: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N
paper tablet	reMarkable	RM12AA	/

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).
 No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 30MHz)

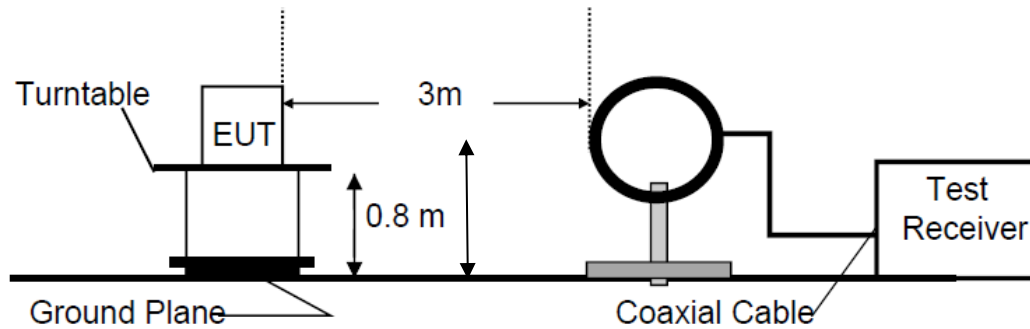
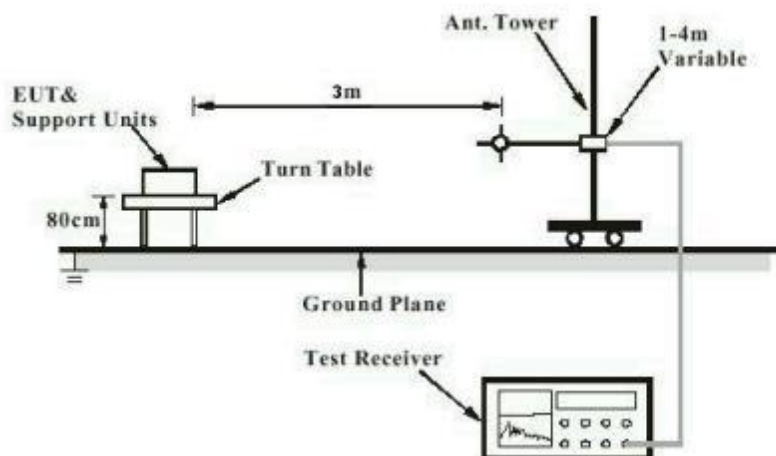


Diagram of Measurement Configuration for Radiation Test (30MHz to 1GHz)



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5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.203
RSS-Gen Clause 6.8

According to the manufacturer declared, the EUT has one internal antenna, the directional gain of antenna is 0dBi and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

5.2 Fundamental & Harmonics Radiated Emission

RESULT: Pass

Test Specification

- Test standard : FCC Part 15.223 (a)
RSS-210, Annex B.1 (a)
- Basic standard : ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024
- Limits : Refer to FCC Part 15.209(a)
RSS-210 Annex B.1(a)
- Kind of test site : 3m Semi-anechoic Chamber

Test Setup

- Date of testing : 2025-07-28 to 2025-08-08
- Input voltage : Battery
- Operation mode : A
- Test channel : Low / Middle / High
- Ambient temperature : 23 °C
- Relative humidity : 42 %
- Atmospheric pressure : 100 kPa

For the measurement records, refer to the appendix B.

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5.3 Radiated Spurious Emission

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.223 (a, b) & FCC Part 15.205
RSS-210, Annex B.1 (b)
Basic standard : ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024
Limits : Refer to 15.209(a)
RSS-Gen Clause 8.9 & 8.10
Kind of test site : 3m Semi-anechoic Chamber

Test Setup

Date of testing : 2025-07-28 to 2025-08-08
Input voltage : Battery
Operation mode : A
Ambient temperature : 24 °C
Relative humidity : 45 %
Atmospheric pressure : 100 kPa

Remark:

Testing was carried out within frequency range 9kHz to the tenth harmonics. Only the worst case spurious emissions configuration of the each mode were reported.

For the measurement records, refer to the appendix B.

6 Photographs of the Test Set-Up

Refer to the appendix A.

7 List of Tables

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 Table 2: Technical Specification of EUT 8
 Table 3: List of Accessories and Auxiliary Equipment..... 10

8 List of Photographs

No table of figures entries found.

Appendix A: Test Results of Bluetooth Low Energy

APPENDIX A: TEST RESULTS OF BLUETOOTH LOW ENERGY	1
APPENDIX A.5: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS	2
9kHz - 30MHz	2
30MHz - 1GHz	5

Appendix A.1: Test Results of Radiated Spurious Emissions

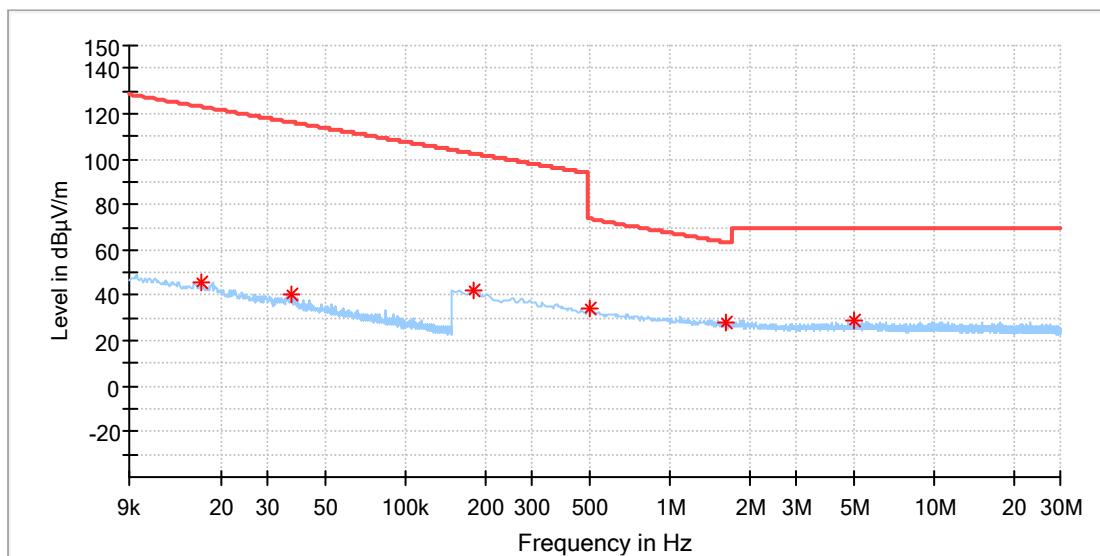
Note:

- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

9kHz - 30MHz

EUT Information

EUT Name:	reMarkable RM04D
Model:	RM04D
Test Mode:	Operating
Order No/Sample No:	168564786/A004035961-023
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC Part 15C
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

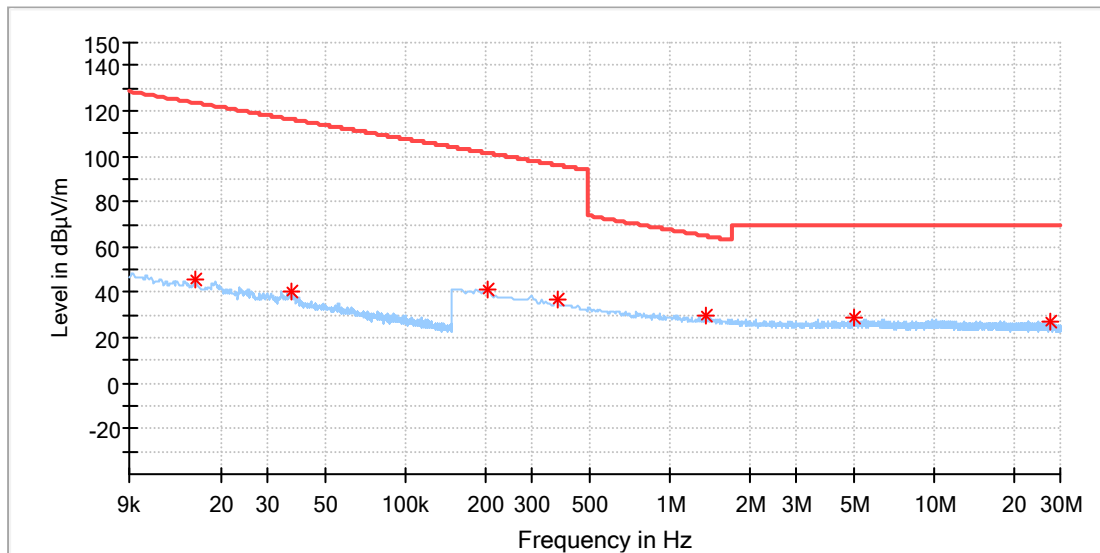


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.016956	45.91	123.00	77.09	100.0	X	131.0	19.9
0.036696	40.77	116.30	75.53	100.0	X	39.0	19.9
0.180728	41.96	102.46	60.50	100.0	X	237.0	19.8
0.496787	33.81	73.68	39.87	100.0	X	183.0	19.9
1.638110	28.06	63.35	35.29	100.0	X	230.0	20.0
4.934780	29.25	69.50	40.25	100.0	X	161.0	20.1

EUT Information

EUT Name:	reMarkable RM04D
Model:	RM04D
Test Mode:	Operating
Order No/Sample No:	168564786/A004035961-023
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC Part 15C
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

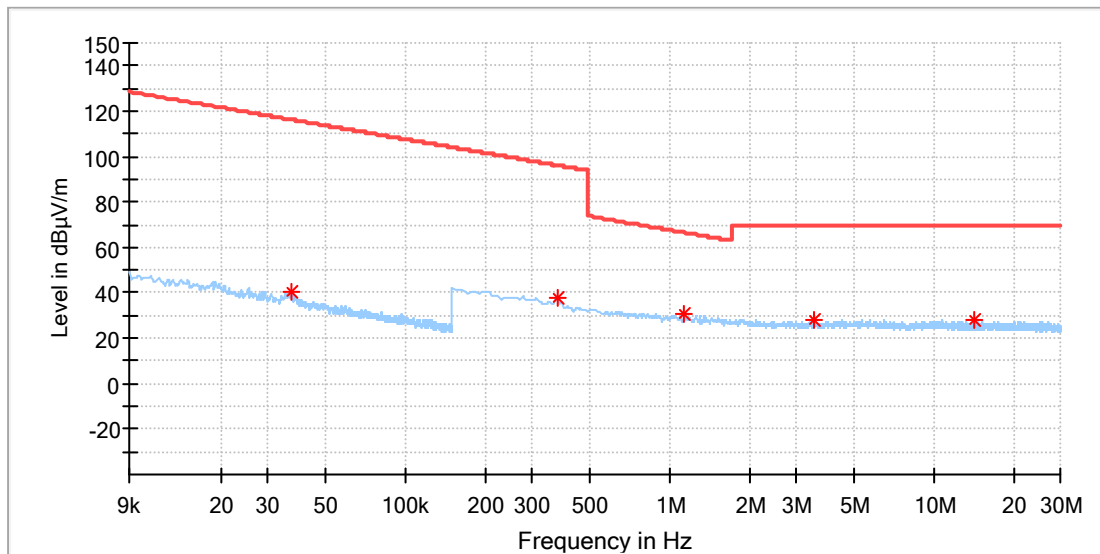


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.016050	45.76	123.48	77.72	100.0	Y	0.0	19.9
0.036797	40.43	116.28	75.85	100.0	Y	277.0	19.9
0.202677	41.58	101.46	59.89	100.0	Y	193.0	19.8
0.373875	36.91	96.15	59.23	100.0	Y	0.0	19.9
1.379118	29.80	64.84	35.04	100.0	Y	74.0	19.9
4.974287	29.11	69.50	40.39	100.0	Y	264.0	20.1
27.603221	27.12	69.50	42.38	100.0	Y	11.0	20.5

EUT Information

EUT Name:	reMarkable RM04D
Model:	RM04D
Test Mode:	Operating
Order No/Sample No:	168564786/A004035961-023
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC Part 15C
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



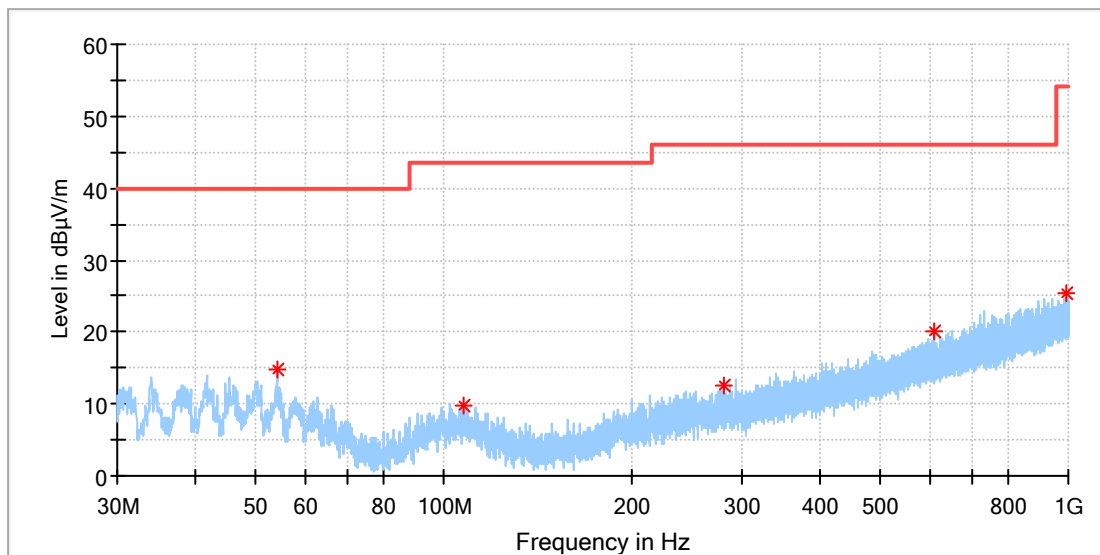
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.037099	40.09	116.20	76.11	100.0	Z	332.0	19.9
0.373875	38.13	96.15	58.02	100.0	Z	220.0	19.9
1.128905	30.68	66.57	35.90	100.0	Z	173.0	19.9
3.530074	27.97	69.50	41.53	100.0	Z	202.0	20.1
14.236566	28.06	69.50	41.44	100.0	Z	74.0	20.3

30MHz - 1GHz

EUT Information

EUT Name:	reMarkable RM04D
Model:	RM04D
Test Mode:	Operating
Order No/Sample No:	168564786/A004035961-023
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC Part 15C
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

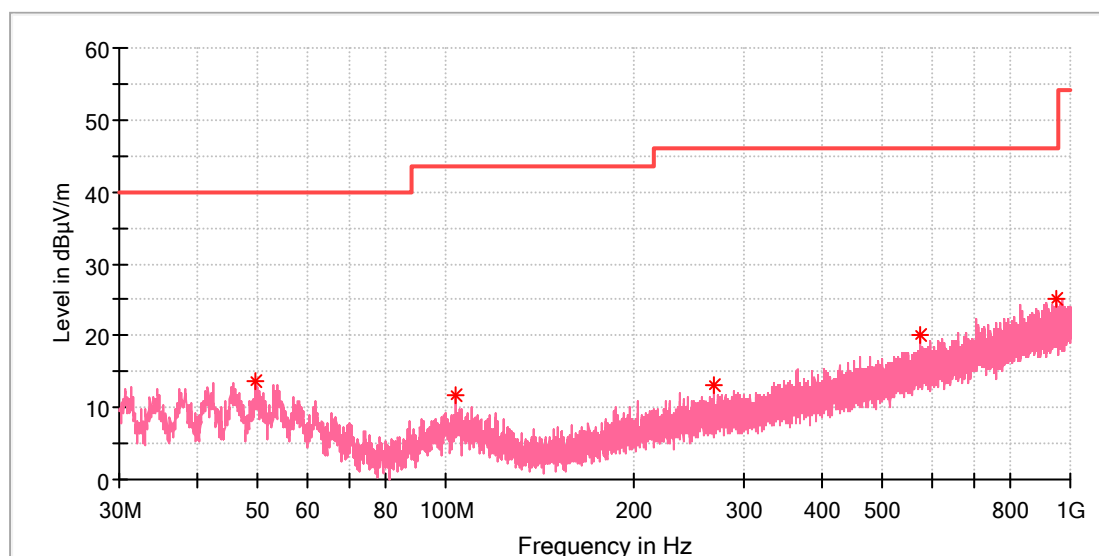


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
54.026154	14.88	40.00	25.12	100.0	H	48.0	-18.5
107.786539	9.89	43.50	33.62	100.0	H	0.0	-19.1
280.931539	12.70	46.00	33.30	100.0	H	161.0	-16.7
609.873462	20.23	46.00	25.77	100.0	H	343.0	-9.5
990.785000	25.48	54.00	28.52	100.0	H	357.0	-3.6

EUT Information

EUT Name:	reMarkable RM04D
Model:	RM04D
Test Mode:	Operating
Order No/Sample No:	168564786/A004035961-023
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC Part 15C
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.586539	13.60	40.00	26.40	100.0	V	86.0	-18.4
103.831923	11.80	43.50	31.70	100.0	V	300.0	-18.9
268.284231	13.15	46.00	32.85	100.0	V	324.0	-17.0
573.983462	19.97	46.00	26.03	100.0	V	125.0	-10.3
947.172308	25.11	46.00	20.89	100.0	V	6.0	-4.3