

Prüfbericht-Nr.: <i>Test report no.:</i>	CN21MGFY 003	Auftrags-Nr.: <i>Order no.:</i>	168342870	Seite 1 von 2 <i>Page 1 of 2</i>
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2021-11-20	
Auftraggeber: <i>Client:</i>	Mavenir Systems, Inc. 1700 International Pkwy #200, Richardson, TX 75081, USA			
Prüfgegenstand: <i>Test item:</i>	Active Antenna Unit			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	MA64WA			
Auftrags-Inhalt: <i>Order content:</i>	RF Exposure			
Prüfgrundlage: <i>Test specification:</i>	FCC 47 CFR Part 2.1091			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2021-11-22	N/A		
Prüfmuster-Nr.: <i>Test sample no.:</i>	A003168776-004			
Prüfzeitraum: <i>Testing period:</i>	2021-11-26 – 2021-12-17			
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>	genehmigt von: <i>authorized by:</i>			
Datum: <i>Date:</i> 2022-01-21	Ausstellungsdatum: <i>Issue date:</i> 2022-01-26			
Stellung / Position	Project Manager	Stellung / Position	Review er	
Sonstiges / Other: FCC ID: 2AWAS-901-00002				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged:</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n)		4 = ausreichend 5 = mangelhaft N/A = nicht anwendbar N/T = nicht getestet		
Legend: 1 = very good 2 = good 3 = satisfactory P(ass) = passed a.m. test specifications(s) F(ail) = failed a.m. test specifications(s)		4 = sufficient 5 = poor 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 a. m. 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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FCC Requirement

According to FCC 1.1307(b), fixed RF source must comply with the following applicable limit for maximum permissible exposure (MPE) specified in FCC 1.1310:

Equipment Use	Frequency Range	Power Density [mW/cm ²]	Average Time [min]
General Population / Uncontrolled Exposure	1.5 – 100GHz	1	30
Occupational / Controlled Exposure	1.5 – 100GHz	5	30

Assessment Result

The distance where the MPE limit for General Population / Uncontrolled Exposure is met is given in the following table:

Maximum EIRP [dBm]	Maximum EIRP [mW]	Distance [cm] Power Density = 1mW/cm ²	Proposed Minimum RF Safety Distance [cm]
79.04	80167806.34	2526.42	2527

Note:

The distance [cm] is calculated according to the Friis formula: $D = \sqrt{EIRP / (4\pi \cdot S)}$, where

S = power density in mW/cm²

EIRP = Effective Isotropically Radiated Power in mW

EIRP = Antenna Port Conducted Power (54.24dBm) + Antenna Gain (24.8 dBi) = 79.04dBm

The distance where the MPE limit for Occupational / Controlled Exposure is met is given in the following table:

Maximum EIRP [dBm]	Maximum EIRP [mW]	Distance [cm] Power Density = 5mW/cm ²	Proposed Minimum RF Safety Distance [cm]
79.04	80167806.34	1129.85	1130

Note:

The distance [cm] is calculated according to the Friis formula: $D = \sqrt{EIRP / (4\pi \cdot S)}$, where

S = power density in mW/cm²

EIRP = Effective Isotropically Radiated Power in mW

EIRP = Antenna Port Conducted Power (54.24dBm) + Antenna Gain (24.8 dBi) = 79.04dBm

Conclusion

The device complies with the FCC RF exposure requirements with minimum RF safety distance of 2527cm for General Population / Uncontrolled Exposure and 1130cm for Occupational / Controlled Exposure.

Refer to test report CN21MGFY 002 for more details.