

SAR Test exclusion documentation according to FCC § 1.1307(b)(3), RSS-102



This SAR test exclusion document is referring to the Test report identification no.: 25013274_Rev.00_FCC Part 95 M and 25013275_Rev.00_RSS-251_Issue2.

Contains the module with the Certification numbers	
FCC ID	W34UMRRA1A6A
IC ID	10652A-UMRRA1A6A
HVIN (Hardware Version Identification Number)	DRVEGRD 166
PMN (Product Marketing Name)	DRVEGRD 166
FVIN (Firmware Version Identification Number)	009
HMN (Host Marketing Name)	---

Equipment Under Test (EUT)			
EUT / Technology	Operating Frequency (GHz)	EIRP Average power. (dBm)	Antenna Gain (dBi)
DRVEGRD 166 / FMCW RADAR	76.372	29.7**	16.0
	76.605	30.5**	16.0
	76.125	30.4**	16.0
	76.605	31.4**	16.0
	76.845	31.2**	16.0

** measurement results are taken from TÜV Nord HF Test report no. 25013274_Rev.00_FCC Part 95 M and 25013275_Rev.00_RSS-251_Issue2.

SAR test exclusion according to FCC § 1.1307(b)(3)

SAR test exclusion for 76 – 81 GHz RADAR devices

According to FCC § 1.1307(b)(3)(i)(C) and the Table 1 in (C), the EUT is exempted from SAR evaluation.

Operating Frequency [GHz]	d _{separation} [cm]	Power measured. [mW]	EIRP Power limit [mW]	Exclusion [Yes/No]
76.135	20	933.25	6297.6	Yes
76.855	20	1122.02	6297.6	Yes
76.389	20	1096.48	6297.6	Yes
76.629	20	1380.38	6297.6	Yes
76.468	20	1318.26	6297.6	Yes

SAR test exclusion according to RSS-102 Issue 5 Section 2.5.2

According to RSS-102 Issue 5 section 2.5.2, if the EUT operates at or above 6 GHz and the source-based, time-averaged maximum e.i.r.p of the device is equal to or less than 5 W (adjusted for tune-up tolerance), then it is exempted from SAR evaluation.

SAR test exclusion for 76 – 81 GHz RADAR devices

Operating Frequency [GHz]	d _{separation} [cm]	Power measured. [mW]	EIRP Power limit [mW]	Exclusion [Yes/No]
76.135	>20	933.25	5000.0	Yes
76.855	>20	1122.02	5000.0	Yes
76.389	>20	1096.48	5000.0	Yes
76.629	>20	1380.38	5000.0	Yes
76.468	>20	1318.26	5000.0	Yes

ATTESTATION: I attest that the EUT meets the exemption from the routine evaluation limits according to FCC § 1.1307(b)(3) as well as meets the exemption from the routine evaluation limits in section 2.5 "Exemption Limits for Routine Evaluation" of RSS-105 issue 5; that the Technical Brief was prepared and the information contained therein is correct; that the device evaluation was performed or supervised by me; that applicable measurement methods and evaluation methodologies have been followed; and that the device meets the SAR and/or RF field strength limits of FCC § 1.1307(b)(3) and RSS-102 issue 5.

Signature	
Name	Mr. Ralf Trepper
Designation	Laboratory-Manager
Date of issue	2025-02-19