





TEST REPORT

Test report no.: 1-9477/19-01-05-A

BNetzA-CAB-02/21-102

Testing laboratory

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Accredited Testing Laboratory:

The testing laboratory (area of testing) is accredited according to DIN EN ISO/IEC 17025 (2005) by the Deutsche Akkreditierungsstelle GmbH (DAkkS)

The accreditation is valid for the scope of testing procedures as stated in the accreditation certificate starting with the registration number: D-PL-12076-01.

Applicant

Sennheiser electronic GmbH & Co. KG

Am Labor 1

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Manufacturer

Sennheiser electronic GmbH & Co. KG

Am Labor 1

30900 Wedemark / GERMANY

Test standard/s

FCC - Title 47 CFR Part FCC - Title 47 of the Code of Federal Regulations; Chapter I; Part 15 - Radio

15 frequency devices

For further applied test standards please refer to section 3 of this test report.

Test Item

Kind of test item: UHF Wireless Microphones – Bodypack Transmitter

Model name: SK 300 G4 / SK 500 G4 / SK 100 G4

FCC ID: DMOSK1574

Frequency: 470 MHz – 608 MHz

Technology tested: proprietary

Antenna: external antenna

Power supply: 2.55 V to 3.45 V DC by 2 x AA battery

Temperature range: -30°C to +50°C



This test report is electronically signed and valid without handwritten signature. For verification of the electronic signatures, the public keys can be requested at the testing laboratory.

Test report authorized:	Test performed:	
Christoph Schneider	Tobias Wittenmeier	
Lab Manager	Testing Manager	
Radio Communications	Radio Communications	



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2 General information

2.1 Notes and disclaimer

The test results of this test report relate exclusively to the test item specified in this test report. CTC advanced GmbH does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item.

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This test report replaces the test report with the number 1-9477/19-01-05 and dated 2020-04-14.

2.2 Application details

Date of receipt of order: 2020-01-08
Date of receipt of test item: 2020-02-06
Start of test: 2020-02-06
End of test: 2020-02-11

Person(s) present during the test: -/-

2.3 Test laboratories sub-contracted

None

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3 Test standard/s, references and accreditations

Test standard	Date	Description				
FCC - Title 47 CFR Part 15		FCC - Title 47 of the Code of Federal Regulations; Chapter I; Part 15 - Radio frequency devices				
ETSI EN 300 422-1 V1.4.2	2011-08	Electromagnetic compatibility and Radio spectrum Matters (ERM); Wireless microphones in the 25 MHz to 3 GHz frequency range; Part 1: Technical characteristics and methods of measurement				
Guidance	Version	Description				
ANSI C63.4-2014 ANSI C63.10-2013	-/-	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices				
Accreditation	Description	tion				
D-PL-12076-01-05	Telecommunication FCC requirements https://www.dakks.de/as/ast/d/D-PL-12076-01-05.pdf Deutsche Aktreditierungss D-PL-12076-01-0 Deutsche Deutsche					

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4 Test environment

Temperature	:	T _{nom} T _{max} T _{min}	+20 °C during room temperature tests +50 °C during high temperature tests -30 °C during low temperature tests
Relative humidity content	:		55 %
Barometric pressure	:		1021 hpa
Power supply	:	V_{nom} V_{max} V_{min}	3.00 V DC by 2 x AA battery 3.45 V 2.55 V

5 Test item

5.1 General description

Kind of test item :	UHF Wireless Microphones – Bodypack Transmitter
Model name :	SK 300 G4 / SK 500 G4 / SK 100 G4
S/N serial number :	Rad. Aw+: 1509011865 Gw1: 1509002710 Cond. Aw+: 1509011859 Gw1: 1509002717
Hardware status :	525479_23
Software status :	1.2.0
Firmware status :	-/-
Frequency band :	470 MHz – 608 MHz Band Aw+: 470 MHz to 558 MHz also available as sub-bands A1: 470 MHz to 516 MHz A: 516 MHz to 558 MHz AS: 520 MHz to 558 MHz Band Gw1: 558 MHz to 608 MHz also available as sub-band G: 566 MHz to 608 MHz
Type of radio transmission: Use of frequency spectrum:	modulated carrier
Type of modulation :	Analog FM
Number of channels :	-/-
Antenna :	external antenna
Power supply :	2.55 V to 3.45 V DC by 2 x AA battery
Temperature range :	-30°C to +50°C

5.2 Additional information

The content of the following annexes is defined in the QA. It may be that not all of the listed annexes are necessary for this report, thus some values in between may be missing.

Test setup and EUT photos are included in test report: 1-9477/19-01-02_AnnexA

1-9477/19-01-02_AnnexB 1-9477/19-01-02_AnnexD

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6 Description of the test setup

Typically, the calibrations of the test apparatus are commissioned to and performed by an accredited calibration laboratory. The calibration intervals are determined in accordance with the DIN EN ISO/IEC 17025. In addition to the external calibrations, the laboratory executes comparison measurements with other calibrated test systems or effective verifications. Weekly chamber inspections and range calibrations are performed. Where possible, RF generating and signaling equipment as well as measuring receivers and analyzers are connected to an external high-precision 10 MHz reference (GPS-based or rubidium frequency standard).

In order to simplify the identification of the equipment used at some special tests, some items of test equipment and ancillaries can be provided with an identifier or number in the equipment list below (Lab/Item).

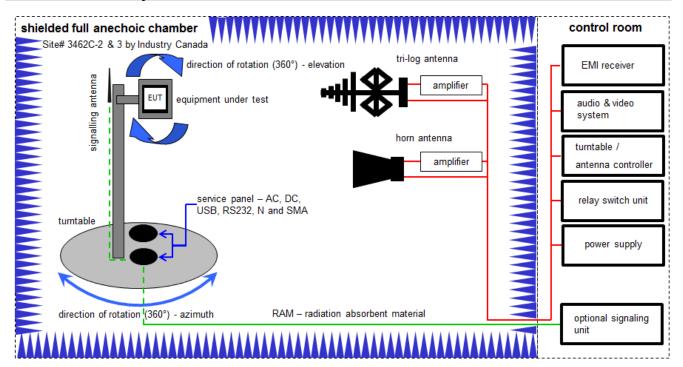
Agenda: Kind of Calibration

k ne	calibration / calibrated not required (k, ev, izw, zw not required)	EK zw	limited calibration cyclical maintenance (external cyclical maintenance)
ev	periodic self verification	izw	internal cyclical maintenance
Ve	long-term stability recognized	g	blocked for accredited testing
vlkl!	Attention: extended calibration interval		
NK!	Attention: not calibrated	*)	next calibration ordered / currently in progress

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6.1 Shielded fully anechoic chamber



Measurement distance: tri-log antenna and horn antenna 3 meter

OP = AV + D - G + CA

(OP-radiated output power; AV-analyzer value; D-free field attenuation of measurement distance; G-antenna gain+amplifier gain; CA-loss signal path)

Example calculation:

 $\overline{OP [dBm]} = -65.0 [dBm] + 50 [dB] - 20 [dBi] + 5 [dB] = -30 [dBm] (1 \mu W)$

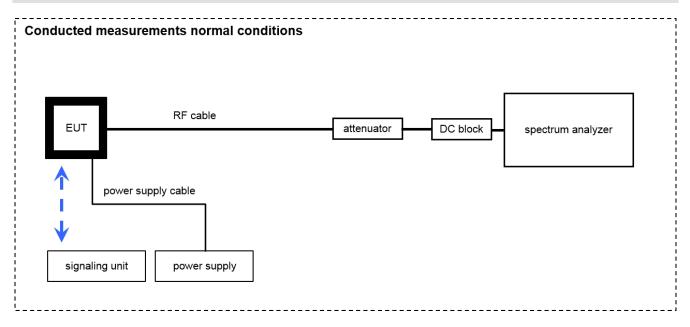
Equipment table:

No.	Lab / Item	Equipment	Туре	Manufacturer	Serial No.	INV. No.	Kind of Calibration	Last Calibration	Next Calibration
1	A/B	Anechoic chamber	FAC 3/5m	MWB / TDK	87400/02	300000996	ev	-/-	-/-
2	А	Double-Ridged Waveguide Horn Antenna 1-18.0GHz	3115	EMCO	9107-3697	300001605	vIKI!	27.02.2019	26.02.2021
3	A/B	Switch / Control Unit	3488A	HP	*	300000199	ne	-/-	-/-
4	A/B	EMI Test Receiver 20Hz- 26,5GHz	ESU26	R&S	100037	300003555	k	11.12.2019	10.12.2020
5	Α	Highpass Filter	WHK1.1/15G-10SS	Wainwright	3	300003255	ev	-/-	-/-
6	В	TRILOG Broadband Test-Antenna 30 MHz - 3 GHz	VULB9163	Schwarzbeck Mess - Elektronik	295	300003787	vIKI!	19.02.2019	18.02.2021
7	A/B	Broadband Amplifier 0.5-18 GHz	CBLU5184540	CERNEX	22049	300004481	ev	-/-	-/-
8	A/B	4U RF Switch Platform	L4491A	Agilent Technologies	MY50000037	300004509	ne	-/-	-/-
9	A/B	NEXIO EMV- Software	BAT EMC V3.19.1.9	EMCO		300004682	ne	-/-	-/-
10	A/B	PC	ExOne	F+W		300004703	ne	-/-	-/-

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6.2 Conducted measurements



OP = AV + CA

(OP-output power; AV-analyzer value; CA-loss signal path)

 $\frac{\textit{Example calculation:}}{\mathsf{OP}\left[\mathsf{dBm}\right] = 6.0\left[\mathsf{dBm}\right] + 11.7\left[\mathsf{dB}\right] = 17.7\left[\mathsf{dBm}\right]\left(58.88\ \mathsf{mW}\right)}$

Equipment table:

N	lo.	Lab / ItemA	Equipment	Туре	Manufacturer	Serial No.	INV. No.	Kind of Calibration	Last Calibration	Next Calibration
1		Α	RF-Cable SRD021 No. 7	Enviroflex 316 D	Huber & Suhner		400001317	ev	-/-	-/-
2		A	Spectrum Analyzer	FSV30	Rohde & Schwarz	104365	300005923	k	17.10.2019	16.01.2021

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7 Sequence of testing

7.1 Sequence of testing radiated spurious 25 MHz to 12.75 GHz

Setup

- The equipment is set up to simulate normal operation mode as described in the user manual or defined by the manufacturer.
- If the EUT is a tabletop system, a 2-axis positioner with 1.5 m height is used.
- If the EUT is a floor standing device, it is placed directly on the turn table.
- Auxiliary equipment and cables are positioned to simulate normal operation conditions as described in ANSI C 63.4.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- Measurement distance is 3 m (see ANSI C 63.4) see test details.
- EUT is set into operation.

Premeasurement

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna is polarized vertical and horizontal.
- The antenna height is 1.5 m.
- At each turntable position and antenna polarization the analyzer sweeps with positive peak detector to find the maximum of all emissions.

Final measurement

- The final measurement is performed for at least six highest peaks according to the requirements of the ANSI C63.4.
- Based on antenna and turntable positions at which the peak values are measured the software maximizes the peaks by rotating the turntable from 0° to 360°. This measurement is repeated for different EUT-table positions (0° to 150° in 30°-steps) and for both antenna polarizations.
- The final measurement is done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and RMS detector (as described in ANSI C 63.4).
- Final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit are recorded. A plot with the graph of the premeasurement with marked maximum final results and the limit is stored.

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8 Measurement uncertainty

Measurement uncertainty							
Test case	Uncertainty						
Transmitter output power	± 3 dB						
Occupied bandwidth	± 3 kHz to 10 kHz (depends on the used RBW)						
Transmitter frequency stability	± 1 Hz to 1 kHz (depends on the used RBW)						
Transmitter unwanted emissions (radiated or conducted)	Radiated: ± 3 dB Conducted: ± 0.5 dB						
Modulation characteristics	-/-						
Necessary bandwidth (BN) for analogue systems	± 1 kHz (depends on the used RBW)						
Frequency modulation	± 3 kHz (depends on the used RBW)						
Spurious emissions conducted below 30 MHz (AC conducted)	± 2.6 dB						

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9 Summary of measurement results

	No deviations from the technical specifications were ascertained
	There were deviations from the technical specifications ascertained
×	This test report is only a partial test report. The content and verdict of the performed test cases are listed below.

TC Identifier	Description	Verdict	Date	Remark
RF-Testing	FCC Part 15	See table!	2020-04-24	-/-

Test specification clause	Test case	Temperature conditions	Voltage conditions	С	NC	NA	NP	Remark
FCC Part 15.236 (d)(1) FCC Part 2.1046)	Transmitter output power	Nominal	Nominal	×				-/-
FCC Part 15.2361 (e)(5) FCC Part 2.1049	Occupied bandwidth	Nominal	Nominal				×	-/-
FCC Part 74.861 (e)(4) FCC Part 2.1055	Transmitter frequency	Nominal	Nominal				×	-/-
1001 an 211000	stability	Extreme	Extreme				\boxtimes	
FCC Part 15.236 (g)	Transmitter unwanted emissions (radiated or conducted)	Nominal	Nominal	X				-/-
FCC Part 2.1047	Modulation characteristics	Nominal	Nominal	-/-			-/-	
FCC Part 15.236 (g)	Necessary bandwidth (BN) for analogue systems	Nominal	Nominal				×	-/-
FCC Part 74.861 (e)(3)	Frequency modulation	Nominal	Nominal				×	-/-
FCC Part 74.861 (e)(7)	Receiver spurious emissions	Nominal	Nominal			×		No receiver integrated!
FCC Part 15.107(a) FCC Part 15.207	Conducted emissions < 30 MHz	Nominal	Nominal			×		-/-

Note: C = Compliant; NC = Not compliant; NA = Not applicable; NP = Not performed

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10 Additional comme	nts	
Reference documents:	None	
Special test descriptions:	None	
Configuration descriptions:	None	
Test mode:	\boxtimes	No test mode available. Test signal is applied to the transmitter.
		Special software is used. EUT is transmitting pseudo random data by itself
Antennas and transmit operating modes:	\boxtimes	Operating mode 1 (single antenna) - Equipment with 1 antenna, - Equipment with 2 diversity antennas operating in switched diversity mode by which at any moment in time only 1 antenna is used, - Smart antenna system with 2 or more transmit/receive chains, but operating in a mode where only 1 transmit/receive chain is used)
		Operating mode 2 (multiple antennas, no beamforming) - Equipment operating in this mode contains a smart antenna system using two or more transmit/receive chains simultaneously but without beamforming.
		Operating mode 3 (multiple antennas, with beamforming) - Equipment operating in this mode contains a smart antenna system using two or more transmit/receive chains simultaneously with beamforming. In addition to the antenna assembly gain (G), the beamforming gain (Y) may have to be taken into account when performing the measurements.

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11 Measurement results

11.1 Transmitter output power

Measurement:

Measurement parameter			
Detector:	Peak (worst case) / Average (RMS)		
Sweep time:	Auto / 20s		
Resolution bandwidth:	> emission bandwidth		
Video bandwidth:	> resolution bandwidth		
Span:	> 2 times emissions bandwidth		
Trace mode:	Max. hold		
EUT configuration:	Peak: Unmodulated carrier RMS: Modulate the transmitter with a 2.5 kHz tone at a level 16 dB higher than that required to produce a frequency deviation of ± 75 kHz, or to produce 50% of the manufacturer's rated deviation, whichever is less.		
Test setup:	See sub clause 7.2 – A		
Measurement uncertainty:	See sub clause 9		

Limits:

FCC	
470 MHz to 608 MHz	
50 mW e.i.r.p. / 17 dBm e.i.r.p.	

Result:

Transmitter output power e.i.r.p.					
Aw+			Gw1		
Frequency	Peak	Average	Frequency	Peak	Average
470.1 MHz	13.90 dBm	13.90 dBm	558.0 MHz	13.77 dBm	13.76 dBm
516.1 MHz	15.63 dBm	15.62 dBm	583.0 MHz	15.47 dBm	15.46 dBm
558.0 MHz	15.18 dBm	15.17 dBm	607.9 MHz	15.96 dBm	15.96 dBm

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11.2 Transmitter unwanted emissions (radiated)

Measurement:

Measurement parameter		
Detector:	Peak (prescan) / RMS	
Sweep time:	Auto	
Resolution bandwidth:	See table below!	
Video bandwidth:	See table below!	
Span:	100 MHz steps!	
Trace-Mode:	Max. hold	
EUT:	MC with max frequency deviation	
Used equipment:	See chapter 7.1- A / B	
Measurement uncertainty:	See chapter 8	
Frequency being measured	Measuring receiver bandwidth	
25 MHz to 30 MHz	9 kHz to 10 kHz	
30 MHz to 1 000 MHz	100 kHz	
> 1 000 MHz	1 MHz	

Limits:

FCC				
	Max. spurious level			
State	47 MHz to 74 MHz 87.5 MHz to 137 MHz 174 MHz to 230 MHz 470 MHz to 862 MHz	Other frequencies ≤ 1000 MHz	All frequencies > 1000 MHz	
Operating	4.0 nW	250 nW	1.00 μW	
Standby	2.0 nW	2.0 nW	20.0 nW	

FCC		
The mean power of emissions shall be attenuated below the mean output power of the transmitter in		
accordance with the follow	ring schedule:	
On any frequency removed from the operating frequency by		
more than 50 percent up to and including 100 percent of the	25 dB	
authorized bandwidth: at least		
On any frequency removed from the operating frequency by		
more than 100 percent up to and including 250 percent of	35 dB	
the authorized bandwidth		
On any frequency removed from the operating frequency by more than 250 percent of the authorized bandwidth: at least	43 + 10log10 (mean output power in watts) dB	

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Results:

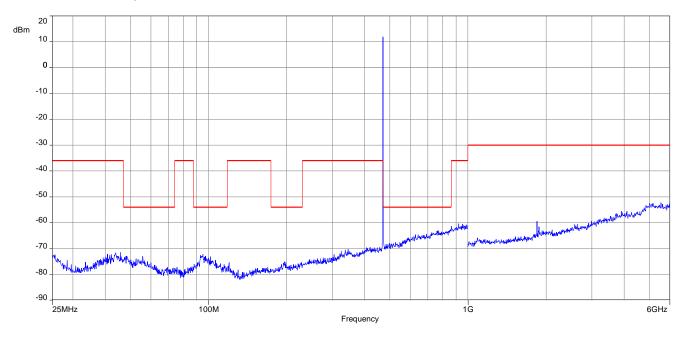
carrier frequency (MHz)	unwanted emission frequency (MHz)	Limit	level (dB) / (dBm) or remark
All detected emissions are more than 20 dB below the limit.			

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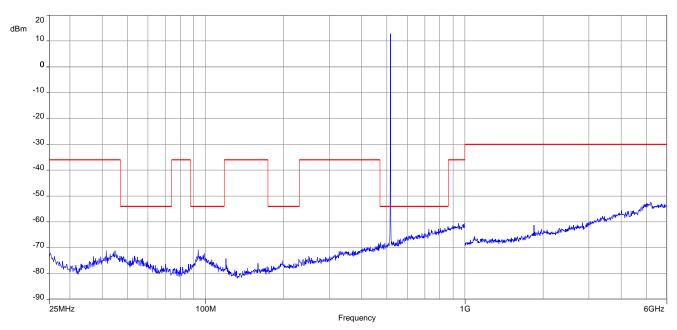


Plots: radiated Aw+

Plot 1: 470.1 MHz, spurious emissions, 25 MHz - 6 GHz



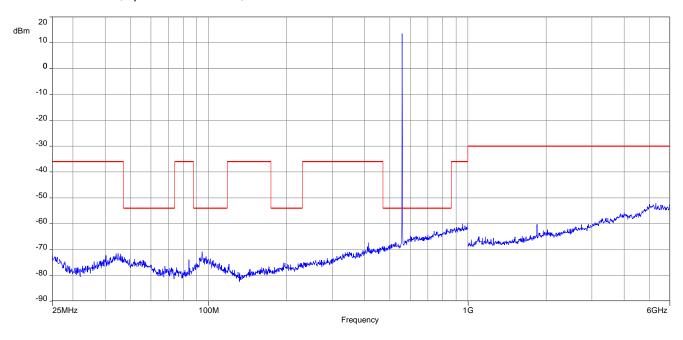
Plot 2: 516.1 MHz, spurious emissions, 25 MHz – 6 GHz



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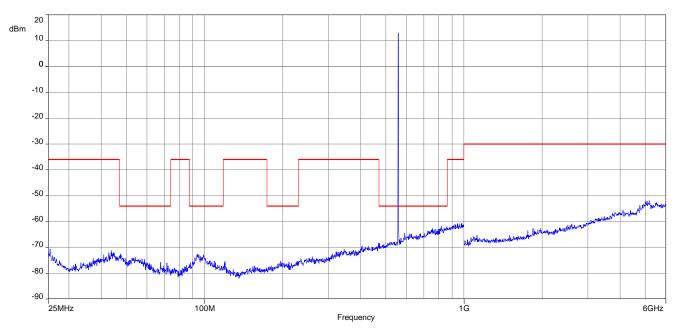


Plot 3: 558.0 MHz, spurious emissions, 25 MHz – 6 GHz



Plots: radiated Gw1

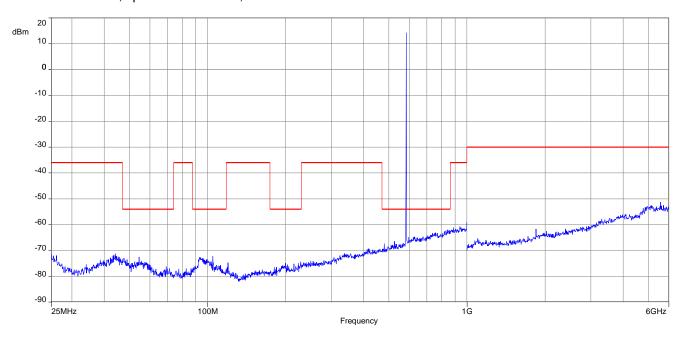
Plot 1: 558.0 MHz, spurious emissions, 25 MHz – 6 GHz



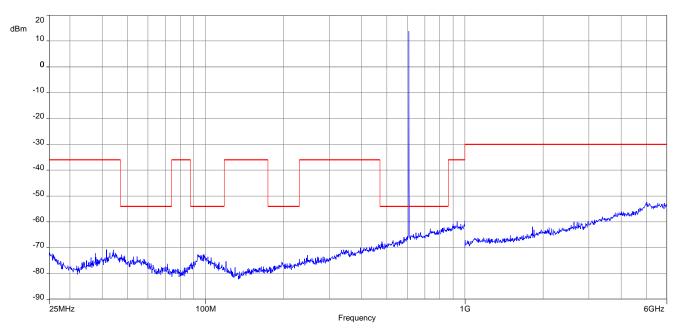
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Plot 2: 583.0 MHz, spurious emissions, 25 MHz – 6 GHz



Plot 3: 607.9 MHz, spurious emissions, 25 MHz – 6 GHz



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12 Observations

No observations except those reported with the single test cases have been made.

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Annex A Glossary

EUT	Equipment under test
DUT	Device under test
UUT	Unit under test
GUE	GNSS User Equipment
ETSI	European Telecommunications Standards Institute
EN	European Standard
FCC	Federal Communications Commission
FCC ID	Company Identifier at FCC
IC	Industry Canada
PMN	Product marketing name
HMN	Host marketing name
HVIN	Hardware version identification number
FVIN	Firmware version identification number
EMC	Electromagnetic Compatibility
HW	Hardware
SW	Software
Inv. No.	Inventory number
S/N or SN	Serial number
С	Compliant
NC	Not compliant
NA	Not applicable
NP	Not performed
PP	Positive peak
QP	Quasi peak
AVG	Average
ОС	Operating channel
OCW	Operating channel bandwidth
OBW	Occupied bandwidth
ООВ	Out of band
DFS	Dynamic frequency selection
CAC	Channel availability check
OP	Occupancy period
NOP	Non occupancy period
DC	Duty cycle
PER	Packet error rate
CW	Clean wave
MC	Modulated carrier
WLAN	Wireless local area network
RLAN	Radio local area network
DSSS	Dynamic sequence spread spectrum
OFDM	Orthogonal frequency division multiplexing
FHSS	Frequency hopping spread spectrum
GNSS	Global Navigation Satellite System
C/N₀	Carrier to noise-density ratio, expressed in dB-Hz

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Annex B Document history

Version	Applied changes	Date of release
-/-	Initial release	2020-04-14
А	Editorial changes	2020-04-24

Annex C Accreditation Certificate - D-PL-12076-01-05

first page	last page
DakkS Deutsche Abkrediterungsstelle Deutsche Akkreditierungsstelle GmbH	Deutsche Akkreditierungsstelle GmbH
Entrusted according to Section B subsection 1 AkkStelleG in connection with Section 1 subsection 1 AkkStelleGBV Signatory to the Multilateral Agreements of EA, ILAC and IAF for Mutual Recognition Accreditation	Office Berlin Office Frankfurt am Main Office Braunschweig Spittelmarkt 10 Europa Allee 52 Bundesallee 100 10117 Berlin 60327 Frankfurt am Main 38116 Braunschweig
The Deutsche Akkreditierungsstelle GmbH attests that the testing laboratory CTC advanced GmbH Untertürkheimer Straße 6-10, 66117 Saarbrücken is competent under the terms of DIN EN ISO/IEC 17025-2005 to carry out tests in the following fields: Telecommunication (FCC Requirements)	
	The publication of extracts of the accreditation certificate is subject to the prior written approval by Deutsche Adverditerungsstelle GmbH (DAAS), Exempted is the unchanged form of separate disseminations of the cover sheet by the conformity assessment body membraned overleat. No impression shall be made that the accreditation also extends to fields beyond the scope of accreditation attested by DAAAS. The accreditation was granted pursuant to the Act on the Accreditation Body (AAAStelleG) of 31 July 2009 (Federal Law Gazette I to 2.625) and the Regulation (EC) No 765/2008 of the European Parliament and of the Council of July 2008 sering out the requirements for accreditation and mayers unveillance relating to the marketing of products (Official Journal of the European Union 1.218 of 9 July 2008, p. 30), DAASS is a signator to the Multilateral Agreements for Autural Recognition of the European co-poration for or
The accreditation certificate shall only apply in connection with the notice of accreditation of 11.01.2019 with the accreditation number D-Pi-12076-01 and is valid until 21.04.2021. It comprises the cover sheet, the reverse side of the cover sheet and the following annex with a total of 5 pages. Registration number of the certificate: D-Pi-12076-01-05 Frankfur am Main, 11.01.2019	Accreditation (EA), International Accreditation Forum (IAF) and international Laboratory Accreditation Cooperation (ILAC). The signatories to these agreements recognise each other's accreditations. The up-to-date state of membership can be retrieved from the following websites: EA: www.upropean-accreditation.org ILAC: www.ilac.org IAF: www.ilac.org
fixed of Division The rives welled:	

Note: The current certificate annex is published on the website (link see below) of the Accreditation Body DAkkS or may be received by CTC advanced GmbH on request

https://www.dakks.de/as/ast/d/D-PL-12076-01-05.pdf

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