

JianYan Testing Group Shenzhen Co., Ltd.

Report No: JYTSZB-R12-2100577

SPECTRUM REPORT (BLE)

Applicant: Nebra Ltd

Address of Applicant: Unit 4 Bells Yew Green Business Court, Bells Yew Green,

Tunbridge Wells TN3 9BJ

Equipment Under Test (EUT)

Product Name: Nebra Smart Indoor LoRa Gateway / Nebra HNT Indoor

Hotspot Miner

Model No.: HNTIN-470-G, HNTIN-868-G, HNTIN-915-G, HNTIN-433-G,

HNTIN-470, HNTIN-868, HNTIN-915, HNTIN-433

Applicable standards: ETSI EN 300 328 V2.2.2 (2019-07)

Date of sample receipt: 12 Mar., 2021

Date of Test: 13 Mar., to 19 Apr., 2021

Date of report issue: 23 Apr., 2021

Test Result: PASS*

The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EC Declaration of Conformity and compliance with all relevant EC Directives. The protection requirements with respect to electromagnetic compatibility contained in Directive 2014/53/EU are considered.





Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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^{*} In the configuration tested, the EUT detailed in this report complied with the standards specified above.





2 Version

Version No.	Date	Description
00	23 Apr., 2021	Original

Tested by:	Toro Wu	Date:	23 Apr., 2021	
_	Test Engineer			

Reviewed by:

| Winner Thang | Date: 23 Apr., 2021 |





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4 Test Summary

Test Items	Test Requirement	Test method	Limit/Severity	Result
	Radio Spectrum	Matter (RSM) Part o	f Tx	
RF Output Power	Clause 4.3.2.2	Clause 5.4.2.2.1.2	Clause 4.3.2.2.3	PASS*
Power Spectral Density	Clause 4.3.2.3	Clause 5.4.3	Clause 4.3.2.3.3	PASS*
Duty Cycle, Tx-sequence, Tx-gap	Clause 4.3.2.4	Clause 5.4.2.2.1.3	Clause 4.3.2.4.3	N/A
Medium Utilisation (MU) factor	Clause 4.3.2.5	Clause 5.4.2.2.1.4	Clause 4.3.4.5.3	N/A
Adaptivity (Adaptive Equipment using Modulations Other Than FHSS)	Clause 4.3.2.6	Clause 5.4.6.2	Clause 4.3.2.6	N/A
Occupied Channel Bandwidth	Clause 4.3.2.7	Clause 5.4.7.2	Clause 4.3.2.7.3	PASS*
Transmitter unwanted emissions in the out-of-band domain	Clause 4.3.2.8	Clause 5.4.8.2	Clause 4.3.2.8.3	PASS*
Transmitter unwanted emissions in the spurious domain	Clause 4.3.2.9	Clause 5.4.9.2	Clause 4.3.2.9.3	PASS*
	Radio Spectrum	Matter (RSM) Part o	f Rx	
Receiver spurious emissions	Clause 4.3.2.10	Clause 5.4.10.2	Clause 4.3.2.10.3	PASS*
Receiver Blocking	Clause 4.3.2.11	Clause 5.4.11.2	Clause 4.3.2.11.4	PASS

Remark:

- 1. Tx: In this whole report Tx (or tx) means Transmitter.
- 2. Rx: In this whole report Rx (or rx) means Receiver.
- 3. Pass: Meet the requirement.
- 4. N/A: Not Applicable for Non-adaptive equipment.
- 5. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer).
- 6. Pass*: Refer to the Report No.: AGC004051706001EE11.

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5 General Information

5.1 Client Information

Applicant:	Nebra Ltd
Address:	Unit 4 Bells Yew Green Business Court, Bells Yew Green, Tunbridge Wells TN3 9BJ
Manufacturer:	Nebra Ltd
Address:	Unit 4 Bells Yew Green Business Court, Bells Yew Green, Tunbridge Wells TN3 9BJ
Factory:	SUNSOAR TECH CO., LIMITED
Address:	4/F, Block E, Fengze Building, Huafeng No.2 Industrial Park, Hangkong Road, XiXiang Town, BaoAn District, Shenzhen, China

5.2 General Description of E.U.T.

Product Name:	Nebra Smart Indoor LoRa Gateway / Nebra HNT Indoor Hotspot Miner
Model No.:	HNTIN-470-G, HNTIN-868-G, HNTIN-915-G,HNTIN-433-G, HNTIN-470,HNTIN-868, HNTIN-915,HNTIN-433
Hardware version:	V12-15-2020-1614
Software version:	a98bfc8
Operation Frequency:	2402MHz ~ 2480MHz
Channel number:	40
Channel separation:	2MHz
Modulation type:	other forms of modulation
Equipment Type:	Adaptive equipment
Modulation Technology:	GFSK
Max. E.I.R.P Power:	GFSK: 2.42 dBm
Antenna Type:	Internal Antenna
Antenna gain:	2.0 dBi (declare by Applicant)
Power supply:	DC 5V
AC adapter:	Model: TM-K018VP-01201500PE-Z
	Input: 100-240V~50/60Hz 0.45A
	Output: 12.0V , 1.5A
Remark:	Model No.: HNTIN-470-G, HNTIN-868-G, HNTIN-915-G,HNTIN-433-G HNTIN-470,HNTIN-868, HNTIN-915,HNTIN-433 has the same internal circuit design, layout, components and internal wiring. The difference is that the ones with the -G suffix have GPS function, while those without th suffix do not. Each model has two appearances, except for the appearance, the interior is exactly the same. In addition, the corresponding frequency of each model of LoRa module is different, as follows: The Nebra HNT Indoor Hotspot is available in 4 variants to support multiple region.
	It is available in the following frequency variants: • 433 MHz (HNTIN-433) • 470 Mhz (HNTIN-470) • 868 Mhz (HNTIN-868) • 915 Mhz (HNTIN-915)

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5.3 Test environment and mode, and test samples plans

	·					
Operating Environment:						
Temperature:	Normal: 15°C ~ 35°C, Extreme: -20°C ~ +55°C					
Humidity:	52 % RH					
Atmospheric Pressure:	1008 mbar					
Voltage:	Nominal: 5.0Vdc, Extreme: Low 4.5Vdc, High 5.5Vdc					
Test mode:						
Transmitting mode:	Keep the EUT in continuously transmitting mode with modulation.					
Receiving mode:	Keep the EUT in receiving mode.					
We have verified the construction and function in typical operation. All the test items were carried out with						
the EUT in above test mode	the EUT in above test modes.					

5.4 Description of Support Units

The EUT has been tested as an independent unit.

5.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%)
Occupied Channel Bandwidth	±5%
RF output power, conducted	±1.5 dB
Power Spectral Density, conducted	±3.0 dB
Unwanted Emissions, conducted	±3.0 dB
Temperature	±3 ℃
Supply voltages	±3 %
Time	±5%
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB
Radiated Emission (1GHz ~ 18GHz)	±5.16 dB

5.6 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

● FCC - Designation No.: CN1211

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

● ISED - CAB identifier.: CN0021

The 3m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

● A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

5.7 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

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5.8 Test Instruments list

Radiated Emission:						
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
3m SAC	ETS	9m*6m*6m	966	01-19-2021	01-18-2024	
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-03-2021	03-02-2022	
Biconical Antenna	SCHWARZBECK	VUBA9117	359	06-18-2020	06-17-2021	
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-03-2021	03-02-2022	
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-18-2020	06-17-2021	
EMI Test Software	AUDIX	E3	E3 Version: 6.110919b			
Pre-amplifier	HP	8447D	2944A09358	03-03-2021	03-02-2022	
Pre-amplifier	CD	PAP-1G18	11804	03-03-2021	03-02-2022	
Spectrum analyzer	Rohde & Schwarz	FSP30	101454 03-03-2021		03-02-2022	
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070 03-03-2021		03-02-2022	
Signal Generator	Rohde & Schwarz	SMX	835454/016	03-03-2021	03-02-2022	
Signal Generator	Rohde & Schwarz	SMR20	1008100050	03-03-2021	03-02-2022	
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-03-2021	03-02-2022	
Cable	MICRO-COAX	MFR64639	K10742-5	03-03-2021	03-02-2022	
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-03-2021	03-02-2022	
RF Switch Unit	MWRFTEST	MW200	00 N/A N/A		N/A	
Test Software	MWRFTEST	MTS8200	Version: 2.0.0.0			

Conducted method:	Conducted method:								
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)				
Spectrum Analyzer	Keysight	N9010B	MY60240202	11-27-2020	11-26-2021				
Vector Signal Generator	Keysight	N5182B	MY59101009	11-27-2020	11-26-2021				
Analog Signal Generator	Keysight	N5173B	MY59100765	11-27-2020	11-26-2021				
Power Detector Box	MWRF-test	MW100-PSB	MW201020JYT	11-27-2020	11-26-2021				
Simulated Station	Rohde & Schwarz	CMW270	102335	11-27-2020	11-26-2021				
RF Control Box	MWRF-test	MW100-RFCB	MW200927JYT	N/A	N/A				
PDU	MWRF-test	XY-G10	N/A N/A		N/A				
Test Software	MWRF-tes	MTS 8310	Version: 2.0.0.0						
DC Power Supply	Keysight	E3642A	MY60296194	11-27-2020	11-26-2021				
Temperature Humidity Chamber	ZhongZhi	CZ-C-150D	ZH16491	09-23-2020	09-22-2021				

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6 Radio Technical Specification in ETSI EN 300 328

6.1 Justification

The EUT and test equipment were configured for testing according to ETSI EN 300 328 V2.2.2 (2019-07). The EUT was tested in the normal operating mode to represent worst-case results during the final qualification test.

6.2 Test Configuration of EUT

Operation F	Operation Frequency each of channel									
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency			
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz			
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz			
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz			
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz			
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz			
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz			
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz			
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz			
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz			
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz			

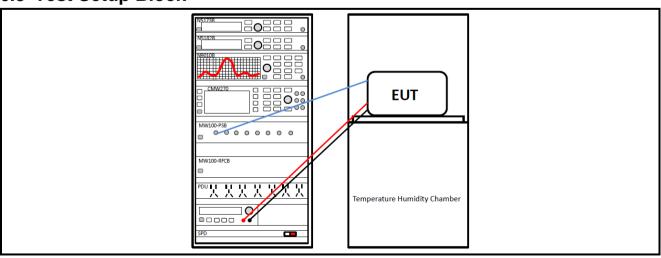
Remark: The EUT operation in above frequency list, and used test software to control the EUT for staying in continuous transmitting and receiving mode. Channel 0, 20 and 39 of BLE were chosen for testing.

Clause	Te	Test Conditions		Test Channel		Modulation		Test mode		
No.	NVNT	NVLT	NVHT	Low	Middle	High	GFSK	Tx	Rx	Normal
4.3.2.2	\checkmark	V	√	√	√	$\sqrt{}$	√	$\sqrt{}$		
4.3.2.3	\checkmark			√	√	$\sqrt{}$	\checkmark	\checkmark		
4.3.2.4										
4.3.2.5										
4.3.2.6										
4.3.2.7	\checkmark			V		$\sqrt{}$	$\sqrt{}$	\checkmark		
4.3.2.8	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$		$\sqrt{}$	$\sqrt{}$	\checkmark		
4.3.2.9	\checkmark			$\sqrt{}$		$\sqrt{}$	$\sqrt{}$	\checkmark		
4.3.2.10				V		V	$\sqrt{}$		V	
4.3.2.11				V		V	$\sqrt{}$		V	

Note:

- 1. "√" means that this configuration is chosen for test.
- 2. "NVNT" means Normal Voltage Normal Temperature, "NVLT" means Normal Voltage Low Temperature, "NVHT" means Normal Voltage High Temperature.

6.3 Test Setup Block



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6.4 Test Results

6.4.1 Test Result Summary

Clause No.	Modulation	Test Condition	Test Data	Verdict
		NVNT		
4.3.2.2	GFSK	NVLT	Appendix A – BLE	Pass
		NVHT		
4.3.2.3	GFSK	NVNT	Appendix A – BLE	Pass
4.3.2.4	N/A	N/A	N/A	N/A
4.3.2.5	N/A	N/A	N/A	N/A
4.3.2.6	N/A	N/A	N/A	N/A
4.3.2.7	GFSK	NVNT	Appendix A – BLE	Pass
		NVNT		
4.3.2.8	GFSK	NVLT	Appendix A – BLE	Pass
		NVHT		
4.3.2.9	GFSK	NVNT	See Section 6.4.2	Pass
4.3.2.10	GFSK	NVNT	See Section 6.4.3	Pass
4.3.2.11	GFSK	NVNT	See Section 6.4.4	Pass

Note: "NVNT" means Normal Voltage Normal Temperature, "NVLT" means Normal Voltage Low Temperature, "NVHT" means Normal Voltage High Temperature.

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6.4.2 Transmitter unwanted emissions in the spurious domain

Refer to the Report No.: AGC004051706001EE11.

6.4.3 Receiver spurious emissions

Refer to the Report No.: AGC004051706001EE11.



Project No.: JYTSZE2104034



6.4.4 Receiver Blocking

Test Channel	Wanted signal mean power from companion device (dBm)	Blocking signal frequency (MHz)	Blocking signal Power (dBm)	PER measurement level (%)	PER Limit (%)	Results
		2380		5		Pass
Lowest	-69.07	2504	-34	3	10	Fass
Channel		2300	-34	3		Door
		2584		5		Pass

NOTE:

- (1) The minimum performance criterion shall be PER less than or equal to 10 %.
- (2) The EUT belongs to receiver category 2 equipment.
- (3) Conducted measurements.

Test Channel	Wanted signal mean power from companion device (dBm)	Blocking signal frequency (MHz)	Blocking signal Power (dBm)	PER measurement level (%)	PER Limit (%)	Results
		2380		4		Pass
Highest	-68.85	2504	-34	4	10	Fa55
Channel	-00.03	2300	-34	3] 10	Pass
		2584		2		га55

NOTE:

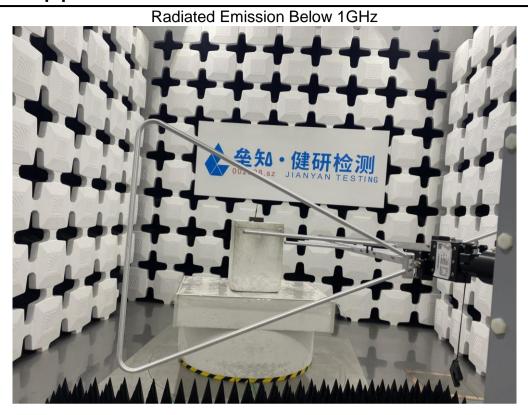
- (1) The minimum performance criterion shall be PER less than or equal to 10 %.
- (2) The EUT belongs to receiver category 2 equipment.
- (3) Conducted measurements.

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Test setup photo



Radiated Emission Above 1GHz







8 EUT Constructional Details

Reference to the test report No. JYTSZB-R01-2100168.





ANNEX Application form for testing

In accordance with EN 300 328 V2.2.2, clause 5.4.1, the following information is provided by the supplier.

a)	The type of modulation used by the equipment:
	☐ FHSS
	○ Other forms of modulation
b)	In case of FHSS modulation:
-,	In case of non-Adaptive Frequency Hopping equipment:
	The number of Hopping Frequencies:
	In case of Adaptive Frequency Hopping Equipment:
	The maximum number of Hopping Frequencies:
	The minimum number of Hopping Frequencies:
	• The Dwell Time:
	The Minimum Channel Occupation Time:
c)	Adaptive / non-adaptive equipment:
	□ Non-adaptive Equipment
	Adaptive Equipment without the possibility to switch to a non-adaptive mode
	Adaptive Equipment which can also operate in a non-adaptive mode
d)	In case of adaptive equipment:
	The Channel Occupancy Time implemented by the equipment: ms
	The equipment has implemented an LBT based DAA mechanism
	In case of equipment using modulation different from FHSS:
	The equipment is Frame Based equipment
	The equipment is Load Based equipment
	☐ The equipment can switch dynamically between Frame Based and Load Based equipment
	The CCA time implemented by the equipment:µs
	The value q as referred to in clause 4.3.2.5.2.2.2:
	The equipment has implemented an non-LBT based DAA mechanism
	The equipment can operate in more than one adaptive mode
e)	In case of non-adaptive Equipment:
	The maximum RF Output Power (e.i.r.p.):dBm
	The maximum (corresponding) Duty Cycle:%
	Equipment with dynamic behaviour, that behaviour is described here. (e.g. the different combinations of duty cycle and corresponding power levels to be declared):
f)	The worst case operational mode for each of the following tests:
•	RF Output Power <u>GFSK</u>
	Power Spectral Density <u>GFSK</u>
	Duty cycle, Tx-Sequence, Tx-gap
	Dwell time, Minimum Frequency Occupation & Hopping Sequence (only for FHSS equipment)
	 Hopping Frequency Separation (only for FHSS equipment)
	Medium Utilisation
	Adaptivity & Receiver Blocking <u>GFSK</u>
	Occupied Channel Bandwidth <u>GFSK</u>
	 Transmitter unwanted emissions in the OOB domain <u>GFSK</u>
	 Transmitter unwanted emissions in the spurious domain <u>GFSK</u>
	Receiver spurious emissions <u>GFSK</u>
g)	The different transmit operating modes (tick all that apply):
\boxtimes	Operating mode 1: Single Antenna Equipment
\boxtimes	Equipment with only 1 antenna
Ш	Equipment with 2 diversity antennas but only 1 antenna active at any moment in time

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	Smart Antenna Systems with 2 or more antennas, but operating in a (legacy) mode where only 1
ante	enna is used. (e.g. IEEE 802.11™ [i.3] legacy mode in smart antenna systems)
Н	Operating mode 2: Smart Antenna Systems - Multiple Antennas without beam forming
Н	Single spatial stream / Standard throughput / (e.g. IEEE 802.11™ [i.3] legacy mode)
\sqcup	High Throughput (> 1 spatial stream) using Occupied Channel Bandwidth 1
Ш	High Throughput (> 1 spatial stream) using Occupied Channel Bandwidth 2
	NOTE: Add more lines if more channel bandwidths are supported.
Ц	Operating mode 3: Smart Antenna Systems - Multiple Antennas with beam forming
Ц	Single spatial stream / Standard throughput (e.g. IEEE 802.11™ [i.3] legacy mode)
	High Throughput (> 1 spatial stream) using Occupied Channel Bandwidth 1
Ш	High Throughput (> 1 spatial stream) using Occupied Channel Bandwidth 2
	NOTE: Add more lines if more channel bandwidths are supported.
h)	•
	The number of Receive chains:
	The number of Transmit chains:
	Symmetrical power distribution
	asymmetrical power distribution
	In case of beam forming, the maximum beam forming gain:
	NOTE: Beam forming gain does not include the basic gain of a single antenna.
i)	Operating Frequency Range(s) of the equipment:
	Operating Frequency Range 1: <u>2402</u> MHz to <u>2480</u> MHz
	Operating Frequency Range 2: MHz to MHz
	NOTE: Add more lines if more Frequency Ranges are supported.
j)	Occupied Channel Bandwidth(s):
	Occupied Channel Bandwidth 1: 1.035 MHz
	Occupied Channel Bandwidth 2: MHz
	NOTE: Add more lines if more channel bandwidths are supported.
k)	Type of Equipment (stand-alone, combined, plug-in radio device, etc.):
	Stand-alone
1 1	
	Combined Equipment (Equipment where the radio part is fully integrated within another type of equipment)
	Plug-in radio device (Equipment intended for a variety of host systems)
	Plug-in radio device (Equipment intended for a variety of host systems) Other
	Plug-in radio device (Equipment intended for a variety of host systems) Other The extreme operating conditions that apply to the equipment:
	Plug-in radio device (Equipment intended for a variety of host systems) Other
)	Plug-in radio device (Equipment intended for a variety of host systems) Other
	Plug-in radio device (Equipment intended for a variety of host systems) Other
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m) If ap Pov Pov	Plug-in radio device (Equipment intended for a variety of host systems) Other

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NOTE 1:	3:dBm				
				as more power levels.	
NOTE 2: These power levels are conducted power levels (at antenna connector).					
				e intended antenna assemblies, their correspon	
· ·	gains (G) and t applicable	ne resulting e	.i.r.p. ieveis	also taking into account the beamforming gain	(Y) IT
Power Level					
		anna assamh	lies provided	for this power level:	
	Number of and		e.i.r.p.	Tor this power level	
	Assembly #	Gain (dBi)	(dBm)	Part number or model name	
	1				
	2				
	3				
	4				
Power Level					
	Number of ante	enna assemb	lies provided	for this power level:	
	Assembly #	Gain (dBi)	e.i.r.p. (dBm)	Part number or model name	
	1				
	2				
	3				
	4				
Power Level					
	Number of ante	enna assemb	lies provided	for this power level:	
	Assembly #	Gain (dBi)	e.i.r.p. (dBm)	Part number or model name	
	1				
	1 2				
	2				
	2 3 4 inal voltages			equipment or the nominal voltages of the continuous	ombined
(host) ed	2 3 4 ninal voltages quipment or te	st jig in case	of plug-in	devices:	ombined
(host) ed	2 3 4 inal voltages	st jig in case ⊠ stand-ald	e of plug-in one equipme	devices: nt	ombined
(host) ed	2 3 4 ninal voltages quipment or te	st jig in case	of plug-in	devices: nt	ombined
(host) ed Details provid	2 3 4 sinal voltages quipment or te ed are for the:	st jig in case	e of plug-in one equipme d (or host) e	devices: nt quipment	ombined
(host) ed Details provid	2 3 4 ninal voltages quipment or te	st jig in case	e of plug-in one equipmed (or host) ed	devices: nt quipment voltageV	ombined
(host) ed Details provid	2 3 4 sinal voltages quipment or te ed are for the:	st jig in case stand-ald combine test jig AC mail	e of plug-in one equipme d (or host) ed ns State AC te DC voltag	devices: nt quipment voltageV	ombined
(host) ed Details provid	2 3 4 sinal voltages quipment or te ed are for the: supply Voltage	st jig in case stand-ald combine test jig AC mail DC Sta he type of po	e of plug-in one equipme d (or host) ed ns State AC te DC voltag	devices: nt quipment voltageV	ombined
(host) ed Details provid	2 3 4 inal voltages quipment or te ed are for the: supply Voltage f DC, indicate t Internal Powe	st jig in case stand-ald combine test jig AC main DC Sta he type of po	e of plug-in one equipmed (or host) ed ns State AC te DC voltag wer source	devices: nt quipment voltageV e 5.0 V	ombined
(host) ed Details provid	2 3 4 sinal voltages quipment or te ed are for the: supply Voltage	st jig in case stand-ald combine test jig AC main DC Sta he type of po	e of plug-in one equipmed (or host) ed ns State AC te DC voltag wer source	devices: nt quipment voltageV e 5.0 V	ombined
(host) ed Details provid	2 3 4 hinal voltages quipment or te ed are for the: supply Voltage f DC, indicate to Internal Powe External Powe	st jig in case stand-ald combine test jig AC main DC Sta he type of po	e of plug-in one equipmed (or host) ed ns State AC te DC voltag wer source	devices: nt quipment voltageV e 5.0 V	ombined
(host) ed Details provid	2 3 4 sinal voltages quipment or te ed are for the: supply Voltage f DC, indicate t Internal Powe External Powe Battery Other:	st jig in case stand-ald combine test jig AC main DC Sta he type of po r Supply er Supply or A	e of plug-in one equipmed (or host) ed ns State AC te DC voltag wer source	devices: nt quipment voltageV e 5.0 V	ombined
(host) ed Details provid	2 3 4 sinal voltages quipment or te ed are for the: supply Voltage f DC, indicate t Internal Powe External Powe Battery Other:	st jig in case stand-ald combine test jig AC main DC Sta he type of por Supply er Supply or A	e of plug-in one equipmend (or host) ed ns State AC te DC voltag wer source	devices: nt quipment voltageV e 5.0 V er cilitate testing:	ombined

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Configuration for testing

Highest overall e.i.r.p. value: 2.42 dBm

From all combinations of conducted power settings and intended antenna assembly(ies) specified in clause 5.4.1 m), specify the combination resulting in the highest e.i.r.p. for the radio equipment.

Unless otherwise specified in EN 300 328, this power setting is to be used for testing against the requirements of EN 300 328. In case there is more than one such conducted power setting resulting in the same (highest) e.i.r.p. level, the highest power setting is to be used for testing. See also EN 300 328, clause 5.3.2.3.

Corresponding of	Antenna assembly gain: 2.0 dBi conducted power setting: 0.42 dBm level to be used for testing)	Antenna Assembly #: 1 Listed as Power Setting #: 7
	nformation provided by the	applicant
Modulation:	normation provided by the	аррисан
	f emission: DSSS	
	itter operate unmodulated?] no
Duty Cycle		•
The transmitter i	☐ Intermittent duty	
About the U		. 51 .
☐ If not ☐ If pre all respe	equipment submitted are representative pro c, the equipment submitted are pre-product e-production equipment are submitted, the facts with the equipment tested c, supply full details	
☐ In ad Additional iten ☐ Spar ☐ Batte ☐ Exter ☐ Test ☐ RF te ☐ Host ☐ Com ☐ User	equipment submitted is CE marked dition to the CE mark, the Class-II identifie ms and/or supporting equipment re batteries (e.g. for portable equipment) ery charging device rnal Power Supply or AC/DC adapter Jig or interface box est fixture (for equipment with integrated are System Manufacturer:	nt provided ntennas)
	End of repo	rt

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