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320636-2TRFFCC

Multi-lens optical system

EOS HP – Remote control

2AKOL-EOSHPT

22293-EOSHPT

**Report Reference ID:** 

**Applicant:** 

**Apparatus:** 

**IC Registration Number:** 

Model: FCC ID:

Test specification:	Title 47 - Telecommunication Chapter I - Federal Communications Commission Subchapter A - General
	Part 15 - Radio Frequency Devices
	Subpart C - Intentional Radiators
	§15.247 - Operation within the bands 2400–2483.5 MHz
	RSS-247 Issue 1 May 2015
	Spectrum Management and Telecommunications
	Radio Standards Specification
	Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices

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Product: EOS HP

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	Section 1: Report summary	Product: EOS HP
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# Section 1: Report summary

1.1 Test specification			
Specifications FCC Part 15 Subpart C, 15.247			
Operation within the bands 902–928 MHz, 2400–2483.5 MHz and 5725–5850 MHz.			
	RSS-247 Issue 1 May 2015		
	Spectrum Management and Telecommunications		
Radio Standards Specification			
Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) a			
	Exempt Local Area Network (LE-LAN) Devices		

1.2 Statement of compliance			
Compliance	In the configuration tested the EUT was found compliant		
	Yes ⊠ No □		
	This report contains an assessment of apparatus against specifications based upon tests carried out on samples submitted at Nemko Canada Inc. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15; Subpart C. and RSS-247 Issue 1 May 2015. Radiated tests were conducted in accordance with ANSI C63.10-2013		

1.3 Exclusions	
Exclusions	None

1.4 Registration number		
Test site	FCC ID number: 481407 / IC number: 9109A	

1.5 Test report revision history		
Revision #	Details of changes made to test report	
TRF	Original report issued	

#### 1.6 Limits of responsibility

Note that the results contained in this report relate only to the items tested and were obtained in the period between the date of initial receipt of samples and the date of issue of the report.

This test report has been completed in accordance with the requirements of ISO/IEC 17025. All results contain in this report are within Nemko Italy's ISO/IEC 17025 accreditation.

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Section 2: Summary of test results	Product: EOS HP

# Section 2: Summary of test results

2.1 FCC Part 15 Subpart C – Intentional Radiators, RSS-247 test results			
General requirements for FCC Part 15, RSS-Gen Issue 4 November 2014			
FCC Part	Test description	Verdict	
§15.31(e)	Variation of power source	Pass	
§15.31(m)	Number of operating frequencies	Pass	
§15.203	Antenna requirement	Pass	
§15.207(a)	Conducted limits	N/A	
Specific requirement	s for FCC Part 15 Subpart C (clause 15.247), RSS-247 Issue 1 May 201	5 (clause 5.2)	
FCC Part	Test description	Verdict	
§15.247(a)(1)(i)	Frequency hopping systems operating in the 902–928 MHz band	N/A	
§15.247(a)(1)(ii)	Frequency hopping systems operating in the 5725–5850 MHz band	N/A	
§15.247(a)(1)(iii)	Frequency hopping systems operating in the 2400–2483.5 MHz band	N/A	
§15.247(a)(2)	Minimum 6 dB bandwidth for systems using digital modulation techniques		
§15.247(b)(1) §5.4(2)	Maximum peak output power of frequency hopping systems operating in the 2400–2483.5 MHz band and 5725–5850 MHz band	N/A	
§15.247(b)(2)	Maximum peak output power of Frequency hopping systems operating in the 902–928 MHz band	N/A	
§15.247(b)(3)	Maximum peak output power of systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands	Pass	
§15.247(b)(4)	Maximum peak output power	N/A	
§15.247(c)(1)	Fixed point-to-point operation with directional antenna gains greater than 6 dBi	N/A	
§15.247(c)(2)	Transmitters operating in the 2400–2483.5 MHz band that emit multiple directional beams	N/A	
§15.247(d) §5.5	Spurious emissions	Pass	
§15.247(e)	Power spectral density for digitally modulated devices	Pass	
§15.247(f)	Time of occupancy for hybrid systems	N/A	
Notes: None			

	Section 3: EUT and application details	Product: EOS HP
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20000 Diassono (MD) – Italy		

# Section 3: Equipment under test (EUT) and application details

3.1 Applicant details				
Applicant complete	Name:	Univet Srl		
business name	Federal Registration Number (FRN):	0026120311		
	Grantee code:	2AKOL		
	IC company number:	22293		
Mailing address	Address:	Via Giovanni Prati, 87		
	City:	Rezzato		
	Province/State:	BS		
	Post code:	25086		
	Country:	Italy		

3.2 Modular equipment		
a) Single modular	Single modular approval	
approval	Yes 🗌	No 🖂
b) Limited single	Limited single modular approva	I
modular approval	Yes 🗌	No ⊠

3.3 Product details		
FCC ID / IC ID	FCC	2AKOL-EOSHPT
FCC ID / IC ID	IC	22293-EOSHPT
Equipment class	Digital Transmission Systems (BLE)	
Description of Multi-lens optical system		n
product as it is	Model name/number:	EOS HP
marketed	Variant name/number	

3.4 Application purpose			
Type of application	$\boxtimes$	Original certification	
	l	Change in identification of presently authorized equipment	
		Original FCC ID: Grant date:	
		Class II permissive change or modification of presently authorized equipment	

	Section 3: EUT and application details	Product: EOS HP
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3.5 Composite/related equipment				
The EUT is a composite device subject to an additional equipment authorization				
Yes □ No ⊠				
The EUT is part of a system that operates with, or is marketed with, another device that requires an equipment authorization				
Yes ⊠ No □				
If either of the above is "yes":				
has been granted under the FCC ID(s) listed below:				
is in the process of being filled under the FCC ID(s) listed below:				
is pending with the FCC ID(s) listed below:				
has a mix of pending and granted statues under the FCC ID(s) listed below:  2AKOL-EOSHPC				

3.6 Sample information	
Receipt date:	2017-01-16
Nemko sample ID number:	320636

3.7 EUT technical speci	3.7 EUT technical specifications		
Operating band:	2.400 GHz ~ 2483.5 GHz		
Operating frequency:	requency: 2402 MHz (CH0) to 2480 MHz (CH39)		
Modulation type:	GFSK		
Occupied bandwidth:	ccupied bandwidth: 729 kHz		
Channel spacing:	spacing: 2 MHz		
<b>Emission designator:</b>	n designator: 729KF7D		
Antenna type:	Johanson Technology antenna model 2450AT18D0100 with a gain of 1.5 dBi		
Power source:	Power source: 3.0 V DC from CR2032 battery		

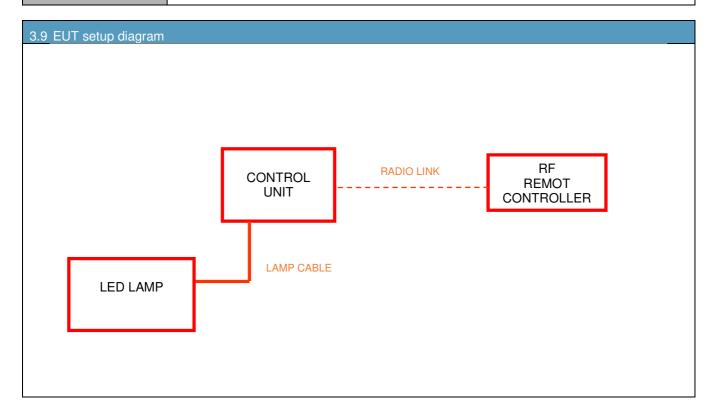


Section 3: EUT and application details	Product: EOS HP

# 3.8 Operation of the EUT during testing

**Details:** 

Constant transmitting at maximum power and at lower, middle and higher frequency with GSFK modulation.



Section 4: Engineering considerations   Product: EOS HP	
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Section 4: Engineering considerations	
4.1 Modifications incorporated in the EUT	
Modifications performed to the EUT during this assessment	
Modifications Yes ☐, performed by Client ☐ or Nemko ☐	
None Details:	
4.2 Deviations from Jahoratory tests procedures	
4.2 Deviations from laboratory tests procedures  Deviations from laboratory test procedures	
Deviations from laboratory test procedures	
Deviations from laboratory test procedures  Ves   - details are listed below:	
Deviations from laboratory test procedures	
Deviations from laboratory test procedures  Ves   - details are listed below:	
Deviations from laboratory test procedures  Ves   - details are listed below:	

	Section 5: Test conditions	Product: EOS HP
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# Section 5: Test conditions

5.1 Power source and a	5.1 Power source and ambient temperatures		
Normal temperature,	Temperature: 15–30 °C		
humidity and air	Relative humidity: 20–75 %		
pressure test	Air pressure: 86–106 kPa		
conditions			
	When it is impracticable to carry out tests under these conditions, a note to this effect stating the ambient temperature and relative humidity during the tests shall be recorder and stated.		
Power supply range:	The normal test voltage for equipment to be connected to the mains shall be the nominal mains voltage. For the purpose of the present document, the nominal voltage shall be the declared voltage, or any of the declared voltages $\pm 5$ %, for which the equipment was designed.		



Section 6: Measurement uncertainty	Product: EOS HP

# Section 6: Measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report according Nemko Spa Technical Procedure WML0078. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device. Hereafter the best measurement capability for Nemko Spa laboratory is reported:

EUT	Туре	Test	Range and Setup features	Measurement Uncertainty	Notes
		Frequency error	0.001MHz ÷ 18 GHz	0.08 ppm	(1)
		Carrier power	1MHz ÷ 18 GHz With power meter	1.6 dB	(1)
		RF Output Power	1MHz ÷ 18 GHz With spectrum/receiver	3.0 dB	(1)
		Adjacent channel power	1MHz ÷ 18 GHz	1.6 dB	(1)
		Conducted spurious emissions	1MHz ÷ 18 GHz	4.2 dB	(1)
		Intermodulation attenuation	1MHz ÷ 18 GHz	2.2 dB	(1)
		Attack time – frequency behaviour	1MHz ÷ 18 GHz	2.0 ms	(1)
		Attack time – power behaviour	1MHz ÷ 18 GHz	2.5 ms	(1)
		Release time – frequency behaviour	1MHz ÷ 18 GHz	2.0 ms	(1)
	Conducted	Release time – power behaviour	1MHz ÷ 18 GHz	2.5 ms	(1)
Transmitter		Transient behaviour of the transmitter– Transient frequency behaviour	1MHz ÷ 18 GHz	0.2 kHz	(1)
		Transient behaviour of the transmitter – Power level slope	1MHz ÷ 18 GHz	9%	(1)
		Frequency deviation - Maximum permissible frequency deviation	0.001MHz ÷ 18 GHz	1.3%	(1)
		Frequency deviation - Response of the transmitter to modulation frequencies above 3 kHz	0.001MHz ÷ 18 GHz	0.5 dB	(1)
		Dwell time	-	3%	(1)
		Hopping Frequency Separation	0.01MHz ÷ 18 GHz	1%	(1)
		Occupied Channel Bandwidth	0.01MHz ÷ 18 GHz	2%	(1)
		Modulation Bandwidth	0.01MHz ÷ 18 GHz	2%	(1)
		Radiated spurious emissions	30MHz ÷ 18 GHz	6.0 dB	(1)
	Radiated	Effective radiated power transmitter	30MHz ÷ 18 GHz	6.0 dB	(1)
	Radiated	Radiated spurious emissions	30MHz ÷ 18 GHz	6.0 dB	(1)
Receiver	naulaled	Sensitivity measurement	1MHz ÷ 18 GHz	6.0 dB	(1)
	Conducted	Conducted spurious emissions	1MHz ÷ 18 GHz	4.2 dB	(1)

#### NOTES

<sup>(1)</sup> The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k = 2 which has been derived from the assumed normal probability distribution with infinite degrees of freedom and for a coverage probability of 95 %.



Section 7: Test equipment	Product: EOS HP

# Section 7: Test equipment

7.1 Test equipment list				
Equipment	Manufacturer	Model No.	Asset/Serial No.	Next cal.
Spectrum Analizer (9 KHz ÷ 40 GHz)	R&S	FSEK	848255/005	2018/01
EMI receiver (20 Hz ÷ 8 GHz)	R&S	ESU8	100202	2017/09
Broadband preamplifier (1 GHz ÷ 18 GHz)	Schwarzbeck	BBV 9718	9718-137	2017/12
Bilog antenna (1 GHz ÷18 GHz)	Schwarzbeck	STLP 9148	9148-123	2018/06
Trilog Broadband Antenna	Schwarzbeck	VULB 9162	9162-025	2018/07
Double Ridged Horn (4 GHz ÷ 40 GHz)	RF SPIN	DRH40	061106A40	2017/08
Wide band Amplifier (18 GHz ÷ 40 GHz)	MITEQ	JS44-18004000-35-8P-R	1.627	2017/12
Semi-anechoic chamber	Nemko	10m semi-anechoic chamber	530	2018/10
Antenna mast	R&S	HCM	836 529/05	NCR
Controller	R&S	HCC	836 620/7	NCR
Turning-table	R&S	HCT	835 803/03	NCR
Note: N/A = Not applicable, NCR = No calibration required, COU = Cal on use				

	Section 8: Testing data	Product: EOS HP
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20853 Biassono (MB) – Italy	Specification: FCC Part 15 Subpart A	

# Section 8: Testing data

## 8.1 Clause 15.31(e) Variation of power source

# § 15.31 Measurement standards.

(e) For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85 % and 115 % of the nominal rated supply voltage. For battery-operated equipment, the equipment tests shall be performed using a new battery.

### Special notes

None

### Test data

New battery was used during the tests



Section 8: Testing data	Product: EOS HP
Specification: FCC Part 15 Subpart A	

# 8.2 Clause 15.31(m) Number of operating frequencies

# § 15.31 Measurement standards.

(m) Measurements on intentional radiators or receivers, other than TV broadcast receivers, shall be performed and, if required, reported for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table:

Frequency range over which device operates	Number of frequencies	Location in the range of operation
1 MHz and less	1	Middle
1 to 10 MHz	2	1 near top and 1 near bottom
More than 10 MHz	3	1 near top, 1 near middle and 1 near bottom

#### Special notes

None

Test data		
The frequency band is 2400 ÷ 2483.5 MHz therefore number of operating frequencies is 3.		
Low frequency / channel	2402 MHz	
Mid frequency / channel	2440 MHz	
High frequency / channel	2480 MHz	



Section 8: Testing data Product: EOS HP

Specification: FCC Part 15 Subpart C

# 8.3 Clause 15.203 Antenna requirement

#### § 15.203 Antenna requirement.

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

#### Special notes

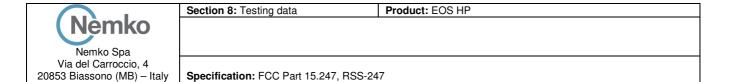
None

#### Test data

The EUT uses a Johanson Technology antenna model 2450AT18D0100 mounted on the printed circuit board.



**ANTENNA** 



# 8.4 Clause 15.247(b) Maximum peak conducted output power

FCC § 15.247 Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

- (b) The maximum peak conducted output power of the intentional radiator shall not exceed the following:
  - (1) For frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts.
  - (2) For frequency hopping systems operating in the 902–928 MHz band: 1 watt for systems employing at least 50 hopping channels; and, 0.25 watts for systems employing less than 50 hopping channels, but at least 25 hopping channels, as permitted under paragraph (a)(1)(i) of this section.
  - (3) For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
  - (4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
    - (i) Systems operating in the 2400–2483.5 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.
    - (ii) Systems operating in the 5725–5850 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter peak output power.
    - (iii) Fixed, point-to-point operation, as used in paragraphs (b)(3)(i) and (b)(3)(ii) of this section, excludes the use of point-to-multipoint systems, omnidirectional applications, and multiple co-located intentional radiators transmitting the same information. The operator of the spread spectrum intentional radiator or, if the equipment is professionally installed, the installer is responsible for ensuring that the system is used exclusively for fixed, point-to-point operations. The instruction manual furnished with the intentional radiator shall contain language in the installation instructions informing the operator and the installer of this responsibility.

#### RSS-247 Clause 5.4 (4)

For DTSs employing digital modulation techniques operating in the bands 902-928 MHz and 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1W. Except as provided in Section 5.4(5), the e.i.r.p. shall not exceed 4 W.

Special notes	
None	



Section 8: Testing data	Product: EOS HP

### Test data

#### Radiated measurements

Radiated measurements were performed a distance of 3 m and according to ANSI C63.10-2013

Frequency (MHz)	Antenna polarization	EUT position	Field strength (dBμV/m)
2402	Horizontal	Horizontal	97.9
2440	Horizontal	Horizontal	97.8
2480	Horizontal	Horizontal	99.4
2402	Vertical	Horizontal	90.0
2440	Vertical	Horizontal	90.2
2480	Vertical	Horizontal	90.5
2402	Horizontal	Vertical	89.8
2440	Horizontal	Vertical	90.4
2480	Horizontal	Vertical	88.9
2402	Vertical	Vertical	99.2
2440	Vertical	Vertical	98.3
2480	Vertical	Vertical	98.6

Theoretical conversion from Field Strength measured at 3 m to power conducted from the intentional radiator to the antenna:

$$P(W) = \frac{E^2 R^2}{30G}$$

E = Measured field strength value (V/m)

R = Measurement distance (m)

G = Antenna Gain (numeric)

Therefore dBW = dBV/m + 20Log(3) - 10Log(30) - 10Log(G)

From which we obtain

 $dBmW = dB\mu V/m - 120 + 20Log(3) - 10Log(30) - 10Log(G) + 30 = dB\mu V/m - 95.23 - 10Log(G)$ 

Output power [dBm] = Field Strength [dB $\mu$ V/m] – 95.23 [dB] – Antenna gain [dBi]

Frequency (MHz)	Field strength (dBµV/m)	Output power (dBm)	Limit (dBm)	EIRP (dBm)	EIRP limit (dBm)
2402	99.2	2.5	30.0	4.0	36.0
2440	98.3	1.6	30.0	3.1	36.0
2480	99.4	2.7	30.0	4.2	36.0



Section 8: Testing data	Product: EOS HP

### 8.5 Clause 15.247(d) Spurious emissions

# § 15.247 Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

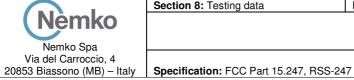
#### RSS-247 Clause 5.5 (Unwanted Emissions)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section 5.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

Special notes									
§15.209 – Radiated emission limits									
Frequency	Field s	trength	Measurement distance						
(MHz)	(μV/m)	(dBµV/m)	(m)						
0.009-0.490	2400/F	67.6-20log(F)	300						
0.490-1.705	24000/F	87.6-20log(F)	30						
1.705–30.0	30	29.5	30						
30–88	100	40.0	3						
88–216	150	43.5	3						
216–960	200	46.0	3						
above 960	500	54.0	3						

#### Notes:

- F = fundamental frequency in kHz
- In the emission table above, the tighter limit applies at the band edges.
- For frequencies above 1 GHz the limit on peak RF emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test.



Section 8: Testing data	Product: EOS HP

Special notes								
§15.205 – Restricted bands of operation								
MHz	MHz	MHz	GHz					
0.090-0.110	16.42–16.423	399.9–410	4.5–5.15					
0.495-0.505	16.69475–16.69525	608–614	5.35-5.46					
2.1735–2.1905	16.80425–16.80475	960–1240	7.25–7.75					
4.125–4.128	25.5–25.67	1300–1427	8.025–8.5					
4.17725-4.17775	37.5–38.25	1435–1626.5	9.0–9.2					
4.20725-4.20775	73–74.6	1645.5–1646.5	9.3–9.5					
6.215–6.218	74.8–75.2	1660–1710	10.6–12.7					
6.26775–6.26825	108–121.94	1718.8–1722.2	13.25–13.4					
6.31175–6.31225	123–138	2200–2300	14.47–14.5					
8.291-8.294	149.9–150.05	2310–2390	15.35–16.2					
8.362-8.366	156.52475–156.52525	2483.5–2500	17.7–21.4					
8.37625-8.38675	156.7–156.9	2690–2900	22.01–23.12					
8.41425-8.41475	162.0125–167.17	3260–3267	23.6–24.0					
12.29–12.293	167.72–173.2	3332–3339	31.2–31.8					
12.51975–12.52025	240–285	3345.8–3358	36.43–36.5					
12.57675–12.57725	322–335.4	3600–4400	Above 38.6					
13.36–13.41								

- The spectrum was searched from 30 MHz to the 10<sup>th</sup> harmonic.
- The EUT was measured on three orthogonal axis.
- All measurements were performed at a distance of 3 m.
- All measurements were performed:
  - within 30–1000 MHz range: using a quasi-peak detector with 120 kHz RBW
  - within 30-1000 MHz range: using a peak detector with 100 kHz/300 kHz RBW/VBW,
  - above 1 GHz: using peak detector with 1 MHz/3 MHz RBW/VBW for peak results
  - above 1 GHz: using average detector with 1 MHz/3 MHz RBW/VBW for average results



Section 8: Testing data	Product: EOS HP	

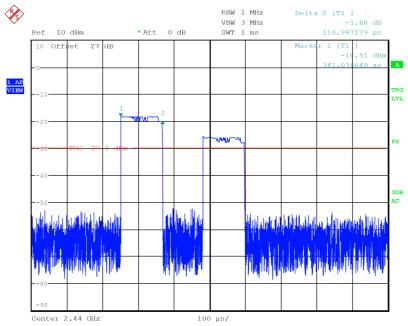
Specification: FCC Part 15.247, RSS-247

### Test data

Duty cycle/average factor calculations

§15.35(c) When the radiated emission limits are expressed in terms of the average value of the emission, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds.

#### Duty cycle/average factor calculations:



The first burst is generated by the remote controller and the second by the control unit. The single burst have a duration of 117  $\mu$ s and it's repeated every 468  $\mu$ s.

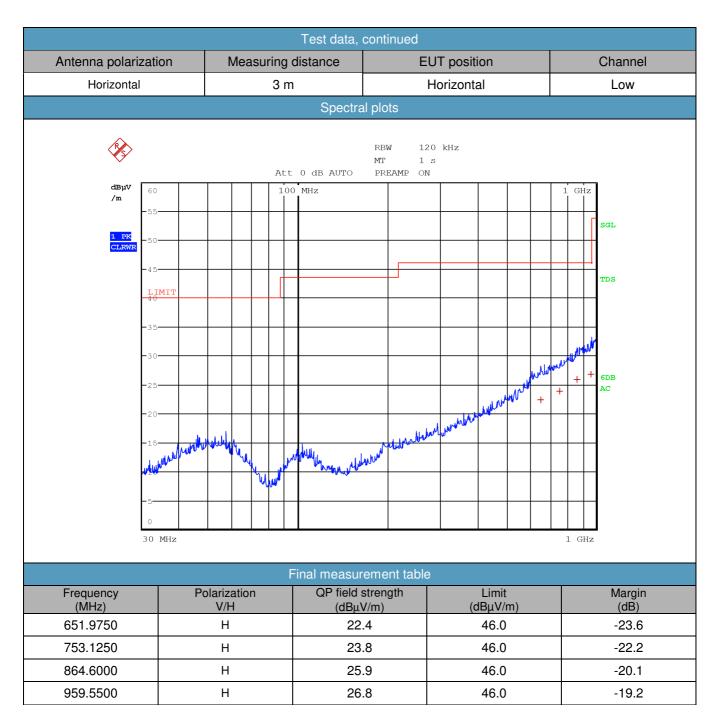
$$Duty \, cycle \, | \, average \, factor = 20 \times \log_{10} \left( \frac{Tx_{100 \, ms}}{100 \, ms} \right)$$

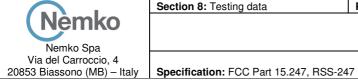
Transmission time = 117  $\mu$ s every 468  $\mu$ s = 25 ms

Duty cycle correction = -12.0 dB



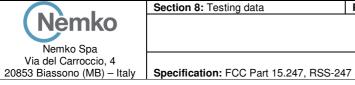
Section 8: Testing data	Product: EOS HP





Section 8: Testing data	Product: EOS HP

		Test data, continu	ed			
Antenna polarization	n Measuring	distance	EUT position	Channel		
Vertical	3 m	1	Horizontal	Low		
		Spectral plots				
	Att	RBW MT : 0 db AUTO PREAM	120 kHz 1 s P ON			
<b>двµV</b> /m	100	0 MHz		1 GHz		
-55				SGL		
1 PK CLRWR				Sen		
<b>-</b> 45						
ΓΪΜΊ				TDS		
40						
-35						
-30				HILL OF THE PARTY		
-25			- de la companya della companya della companya de la companya della companya dell	+ 6DB		
-20-			+ +			
			handle strawance			
-15	Live wild that a decorate when I had	produce a silen proportion by by	Analla-la strandon de la companya de			
-5						
0				1 97		
30 MH	HZ			1 GHz		
		inal measurement				
Frequency (MHz)	Polarization V/H	QP field strength (dBμV/m)	Limit (dBµV/m)	Margin (dB)		
639.5500	V	21.9	46.0	-24.1		
753.2750	V	23.8	46.0	-22.2		
816.0250	V	24.8	46.0	-21.2		
957.3500	V	26.8	46.0	-19.2		

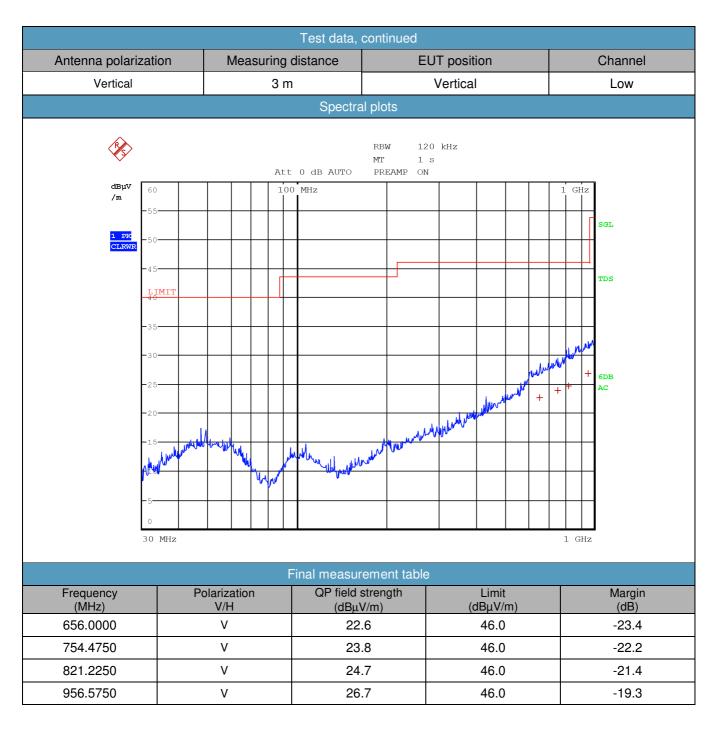


Section 8: Testing data	Product: EOS HP

					Test data,	contin	ued							
Antenna polarization	Antenna polarization Measuring di			listance	EUT position						Channel			
Horizontal			3	m			,	Vertica						Low
					Spectra	al plots								
<b>\$</b>			P	Att	0 dB AUTO	RBW MT PREA	1 s	kHz						
dΒμV 60				100	MHz							1 (	GHz	]
<b>-</b> 55-													+	SGL
1 PK CLRWR														1
-45-													+	
L.I.	MIT													TDS
-35-													لد يا	]
-30-											www	MIN	/ \	1
-25-										MANUAL	WW	+	+	6DB AC
-20-								M	ALV VIN	70	+			
-15-							Munul	James Chris						
	AND THE PROPERTY OF THE PARTY O	We who		W	Mhayay finde-l	MANULANA	γω -							
Haran			MAJA	V										1
-5-														1
30	MHz											1	GHz	J
	THIZ												OHZ	
				F	inal measur									
Frequency (MHz)	Polarization V/H			QP field : (dΒμ\		h	Limit (dBµV/m)				Margin (dB)			
645.6000	Н				22.2		46.0				-23.8			
741.9000	Н				23	.9		46.0				-22.1		
868.7750	Н				26	6.0 46.0				-20.1				
873.0250		Н			26	.0			46.0	)				-20.0

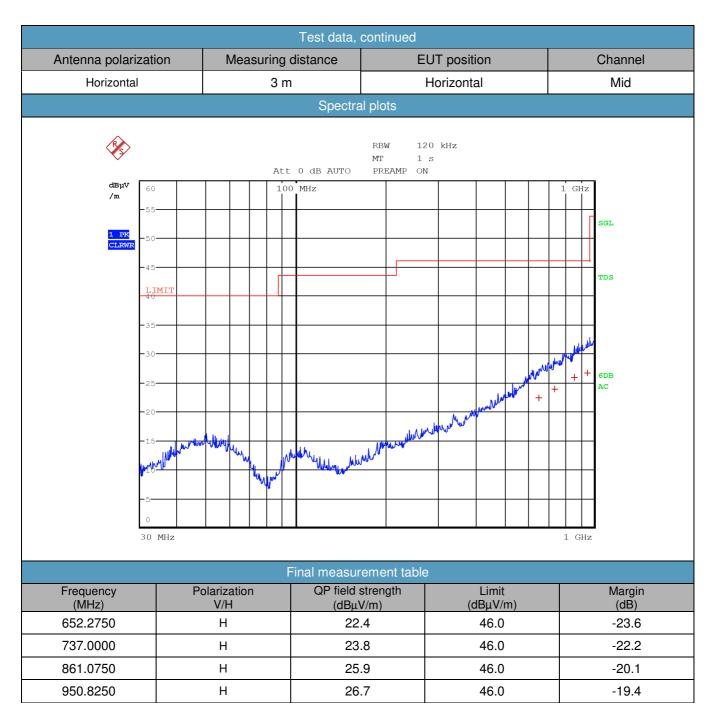


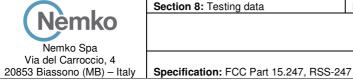
Section 8: Testing data	Product: EOS HP



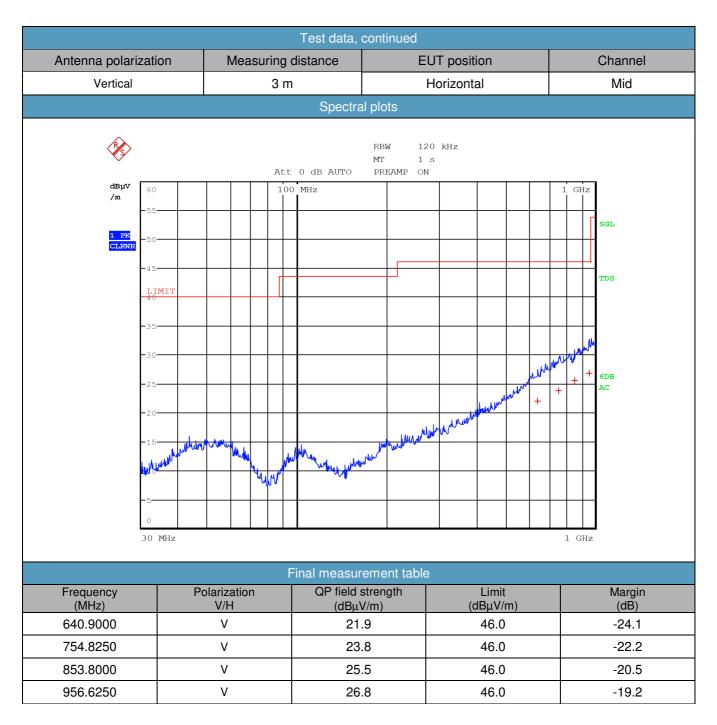


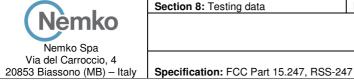
Section 8: Testing data	Product: EOS HP



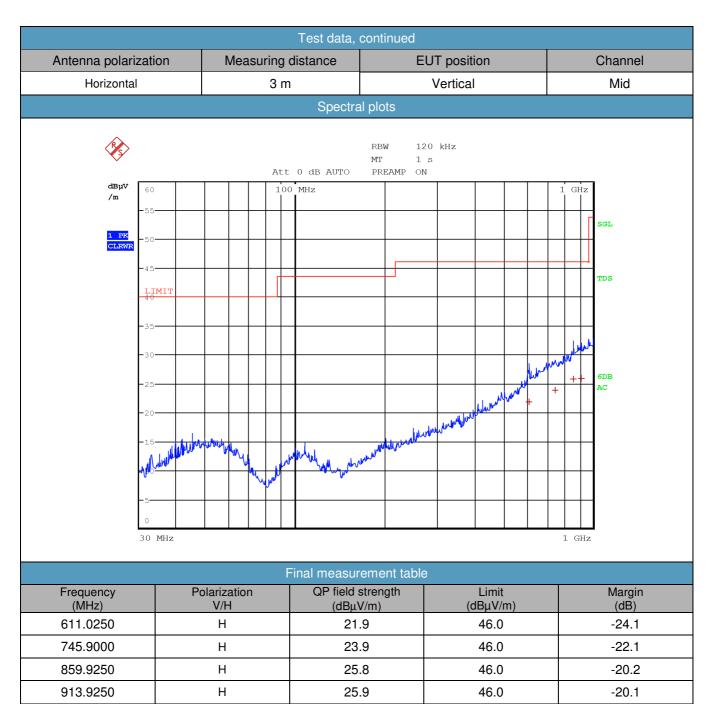


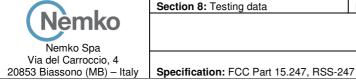
Section 8: Testing data	Product: EOS HP



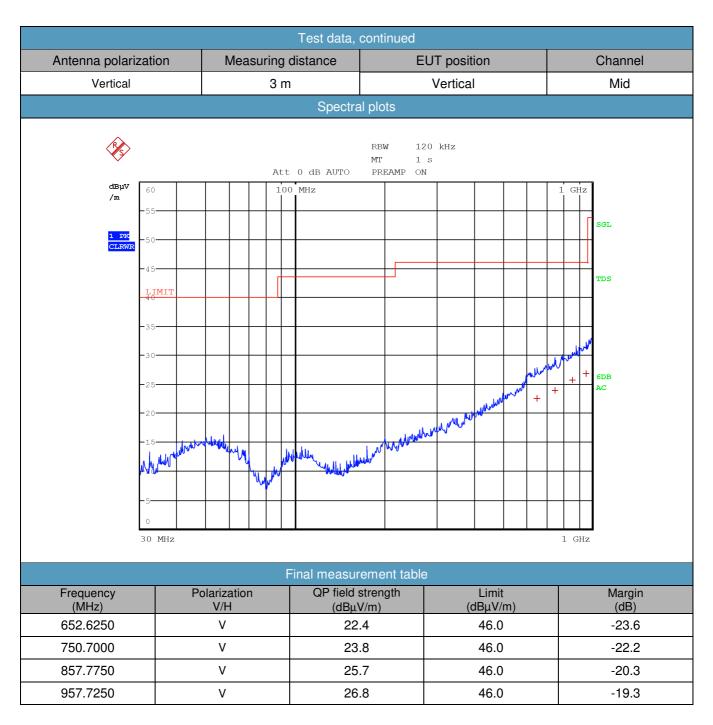


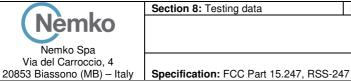
Section 8: Testing data	Product: EOS HP



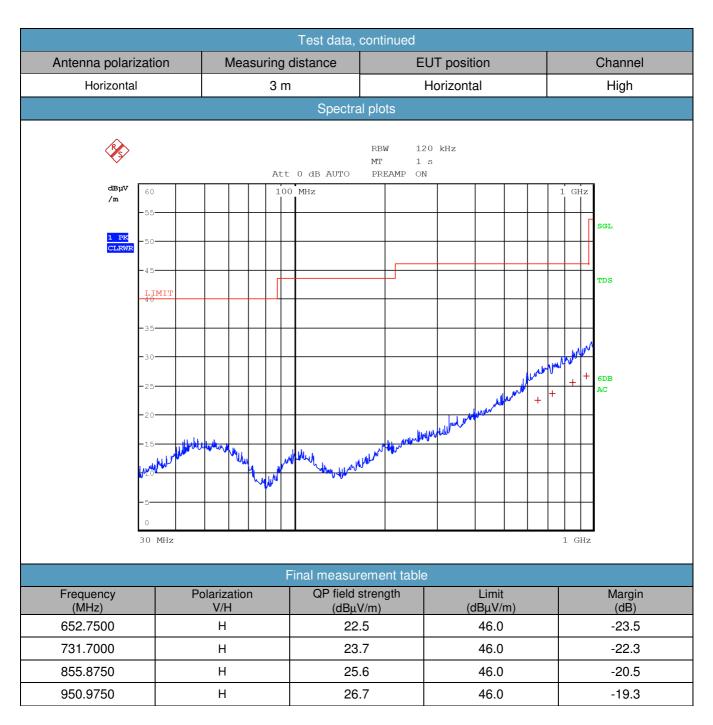


Section 8: Testing data	Product: EOS HP





Section 8: Testing data	Product: EOS HP



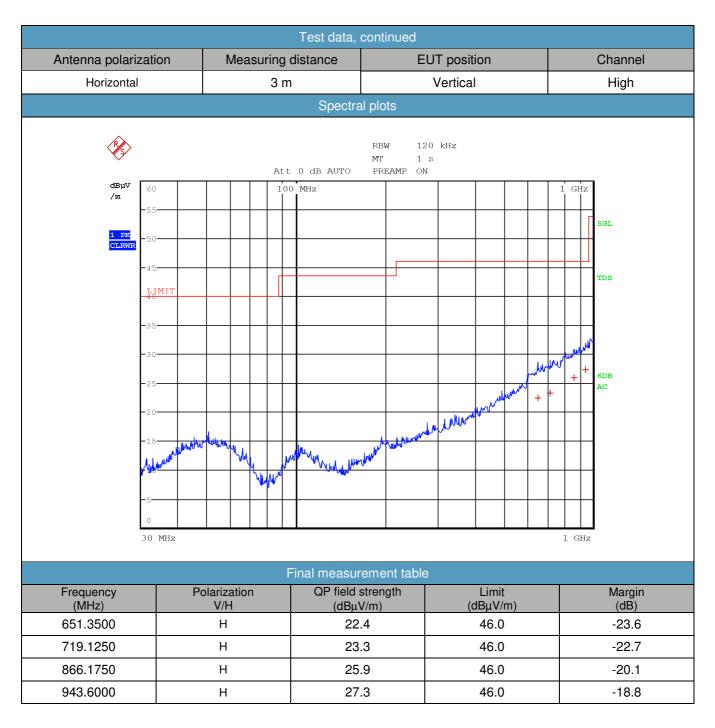


	Section 8: Testing data	Product: EOS HP
( Nèmko		
Nemko Spa		
Via del Carroccio, 4		
20853 Biassono (MB) - Italy	Specification: FCC Part 15.247, RSS-24	.7
20853 Biassono (MB) – Italy	Specification: FUC Part 15.247, RSS-24	1

						Test data,	conti	inued									
Antenna polariza	Measuring distance						EUT position							Channel			
Vertical		3 m							Hor	izonta	al					High	
						Spectra	ıl plo	ts									
				i	Att	0 dB AUTO	RBV MT PRE		20 k s N	Hz							
dΒμV /m	0				100	MHz								1	GH	Z	
<b>-</b> 5	5															SGL	
1 PK CLRWR	0	$\vdash$	+						+							+	
-4	5								+								
	JMIT															TDS	
	_																
-3	.5															, we	
-3	0												L.Ar	w		<u> </u>	
-2	:5										. 4	للسايل	W.	+	+	+ 6DB AC	
-2	0								_	الماسلامة	MANA		+				
-1	.5	Mal	_					MUNICIPAL	Mah	M							
hui.	White hours	<del>/W//wt</del>	M	u	M	the whole I was	WANTER	*(**									
<b>7.9</b>	,0			Y W	V	her be how he have been been been been been been been be											
<b>⊢</b> 5·																	
30	) MHz													1	. GI	Hz	
Frequency	l D	oloriza	ation		F	inal measur QP field :			е		Limit					Margin	
(MHz)	F	Polarization V/H V				(dBμ\	V/m)	gui		(c	ΙΒμV/	m)				(dB)	
608.9500						21					46.0					-24.1	
749.7250		V				23					46.0					-22.1	
867.5750		V				25					46.0					-20.1	
952.1250		V				26	.7				46.0				-19.3		



Section 8: Testing data	Product: EOS HP





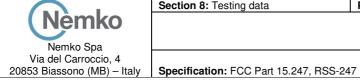
	Section 8: Testing data	Product: EOS HP
( Nèmko		
Nemko Spa		
Via del Carroccio, 4		
20853 Biassono (MB) - Italy	Specification: FCC Part 15.247, RSS-24	.7
20853 Biassono (MB) – Italy	Specification: FUC Part 15.247, RSS-24	1

						Test data, d	contin	ued								
Antenna polariza	Measuring distance						EUT position							Channel		
Vertical	Vertical				3 m										High	
						Spectra	plots									
				At	et (	) dB AUTO	RBW MT PREA	1 8	) kHz							
dΒμV /m	0			1	00 1	MHz							1	GHz	]	
-5	5			H	+								+	+	SGL	
1 PK CLRWR -5	0	++		+	$\perp$		+						+			
-4	5	$\vdash$											+	+	TDS	
	TIMIT				$\perp$								_	1	TDS	
	.5															
														, July	i	
<b>-</b> 3	.0											ww	Mehry	/ <del>~</del>	6DB	
-2	.5			+	+							+	+	ť	AC AC	
-2	0			+			+		Marie Marie	han han.	+	·	+	+		
-1	.5	u Albrechen	4.	$\perp$	$\perp$			Jak Wilak	MAN				4	+		
l who	Marine		Mary Land		W	May Mary Mary Market	, New V									
			\ \frac{\frac{1}{2}}{2}	W		Vol										
5																
_	) MHz	<u> </u>											1	GHz		
					Eir	nal measure	om on:	table								
Frequency	P	olariza	tion			QP field s				Limit					Margin	
(MHz)	V/H					(dBμV	//m)		(0	dBμV/	m)				(dB)	
558.1000		V				19.				46.0					-26.6	
654.3000		V				22.				46.0				-23.6		
749.0250 949.8500		V				23. 26.				46.0				-22.2		
343.0000	1	V				20.	U			40.0				-19.4		



	Section 8: Testing data	Product: EOS HP
( Nèmko		
Nemko Spa		
Via del Carroccio, 4		
20853 Biassono (MB) - Italy	Specification: FCC Part 15.247, RSS-24	.7
20853 Biassono (MB) – Italy	Specification: FUC Part 15.247, RSS-24	1

			Test data, d	continu	ued				
Antenna	a polarization	Measuring of	distance		EUT posit	ion		Channel	
Н	orizontal	3 m			Horizont	al			Low
			Spectra	plots					
	PS.	Att	0 dB AUTO	RBW MT PREAM	1 MHz 1 s MP OFF				
	dΒμV 100		<b>†</b>						
	-90		1						SGL
	<b>CLRWR</b> -80								
	2 AV CLRWR PK								TDS
	-70								
	-60								
	AV							Mary Value	
	-50				AND NAVARONA	./W	Washing.	,	6DB AC
	-40		ANA	WIN WIN	WHAP -				
	my Marin	munumm	WW.		mummm				
	38		mlm	ww	ww				
	7.50	, v							
	10 1 GHz							8 GHz	
Erogueney	Polarization	Peak field strength	inal measure		table Avg field stre	nath	Λ	limit	Ava marain
Frequency (MHz)	Polarization V/H	dBμV/m)	Duty cycle (dB)	JUII.	(dBµV/m			uV/m)	Avg margin (dB)
2402	Н	97.9					,		



Section 8: Testing data	Product: EOS HP

			Test data, o	ontinu	ıed					
Antenna	polarization	Measuring of	distance	EUT position				Channel		
V	ertical	3 m		Horizontal			Low			
Spectral plots										
	PS	Att	0 dB AUTO	RBW MT PREAM	1 MHz 1 s MP OFF					
	dBμV 100									
	-90		×						SGL	
	2 AV PK								TDS	
	70									
	AV -50					may	ميل المالالماليم	Marketan	6DB	
	-40	mmunum mmmmm	- A Wash	Muun	mmmmmmm	,,,,,,			AC	
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	<b>√</b> 20 <b>√</b> √		$\overline{\mathcal{M}}$							
	10 1 GHz							8 GHz		
		F	Final measure	ement	table					
Frequency (MHz)	Polarization V/H	Peak field strength (dBµV/m)	Duty cycle (dB)		Avg field stre		Avg (dBµ	limit V/m)	Avg margin (dB)	
2402	V	90.0								



	Section 8: Testing data	Product: EOS HP
( Nèmko		
Nemko Spa		
Via del Carroccio, 4		
20853 Biassono (MB) - Italy	Specification: FCC Part 15.247, RSS-24	7
, , , , , , , , , , , , , , , , , , ,		

			Test data,	contin	ued				
Antenn	a polarization	Measuring of	distance	EUT position			Channel		
H	orizontal	3 m		Vertical			Low		
			Spectra	l plots					
		Att	0 dB AUTO	RBW MT PREA	1 MHz 1 s MP OFF				
	dBµV 100 -90		×						TDS
	-50 -40 -230 10				mad um	WALL T		Waller Andrew	6DB AC
	1 GHz	F	inal measur	emen	t table			8 GHz	
Frequency (MHz)	Polarization V/H	Peak field strength (dBμV/m)	Duty cycle (dB)		Avg field	l strength		g limit µV/m)	Avg margin (dB)
2402	Н	89.8	(GB)				(GD	<del>μ ν/πη</del>	
4804	Н	54.0	12.0		42	2.0	5	4.0	-12.0



	Section 8: Testing data	Product: EOS HP
( Nèmko		
Nemko Spa		
Via del Carroccio, 4		
20853 Biassono (MB) – Italy	Specification: FCC Part 15.247, RSS-24	7
,	Specification: FCC Part 15.247, RSS-24	7

			Test data, o	continu	ıed					
Antenna p	oolarization	Measuring o	distance	EUT position			Channel			
Ver	rtical	3 m		Vertical			Low			
Spectral plots										
RBW 1 MHZ MT 1 ms Att 20 dB AUTO PREAMP OFF										
	dBμV 100		×							
	-90								SGL	
	2 AV PK								TDS	
	-70									
	-60 AV						d.a	ar Mangara		
	-40				u Allaharan	A CONTRACTOR OF THE STATE OF TH	yw Wholey I we		6DB AC	
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	/%/\\\	······		~~~~~	00000					
	10							0 CH-		
	1 GHz							8 GHz		
			inal measur							
Frequency P (MHz)	Polarization V/H	Peak field strength (dBμV/m)	Duty cycle (dB)				g limit μV/m)	Avg margin (dB)		
2402	V	99.2								



	Section 8: Testing data	Product: EOS HP
( Nèmko		
Nemko Spa		
Via del Carroccio, 4		
20853 Biassono (MB) - Italy	Specification: FCC Part 15.247, RSS-24	17
20853 Biassono (MB) – Italy	Specification: FCC Part 15.247, RSS-24	1/

			Test data, co	ntinued					
Antenna	a polarization	Measuring o	distance	EUT position				Channel	
Но	orizontal	3 m		Horizontal			Mid		
Spectral plots									
	<b>\$</b>	Att	1	RBW 1 MH MT 1 s PREAMP OFF	ÍZ				
	dΒμV 100		†						
	-90		*					SGL	
	2 AV CLRWR							TDS	
	-70								
	-60 AV				Mu	, www.	and the same of th		
	-40	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	haaaa	nulla Maruhur	WWW. Warden			6DB AC	
	<u> </u>			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	www.				
	<b>₹</b>								
	10 1 GHz						8 GHz		
		F	inal measuren	nent table_					
Frequency (MHz)	Polarization V/H	Peak field strength (dBμV/m)	Duty cycle co	rr. Avg fie	Avg limit (dBµV/m)		Avg margin (dB)		
2440	Н	97.8				` `			



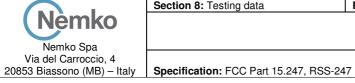
	Section 8: Testing data	Product: EOS HP
( Nèmko		
Nemko Spa		
Via del Carroccio, 4		
20853 Biassono (MB) - Italy	Specification: FCC Part 15.247, RSS-24	7
	-	

			Test data, o	continu	ned						
Antenna	a polarization	Measuring of	distance		EUT	position			Channel		
\	Vertical	3 m			Hori	izontal			Mid		
Spectral plots											
	(P)	Att	0 dB AUTO	RBW MT PREAI	1 MHz 1 s MP OFF						
	dΒμV 100										
	-90		+						SGL		
	1 PK CLRWR								501		
	-80		*								
	CLRWR PK								TDS		
	- 70										
	-60										
	AV						ha, , , , , , , , , , , , , , , , , ,	May be way			
	-50					Marchander	hu forting	ν <sup>1</sup>	6DB AC		
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		~~~~~~		004							
	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	2 V v									
	10										
	1 GHz							8 GHz			
		F	inal measur	ement	table						
Frequency (MHz)	Polarization V/H	Peak field strength (dBμV/m)	Duty cycle (dB)	corr.		d strength นV/m)		g limit μV/m)	Avg margin (dB)		
2440	V	90.2									



	Section 8: Testing data	Product: EOS HP
( Nèmko		
Nemko Spa		
Via del Carroccio, 4		
20853 Biassono (MB) - Italy	Specification: FCC Part 15.247, RSS-24	7
, ,		

		Test data, co	ontinued								
Antenna polarization	Measuring of	distance	E	UT position		(	Channel				
Horizontal	3 m		Vertical				Mid				
Spectral plots											
\$ \$\frac{8}{2} \tag{5}	Att	0 dB AUTO	RBW 1 MT 1 PREAMP OF								
dBµV		†					SGL				
CLRWR -80- 2 AV CLRWR -70-		*					TDS				
-60											
			HARONAN P	War later war war x	a quantila		6DB AC				
A. Marie Carlo		www www	www.	man man market							
10 1 GHz	V.V////					8 GHz					
Frequency Polarization	Peak field strength	inal measure Duty cycle co	orr. Avg	field strength	Avg		Avg margin				
(MHz) V/H 2440 H	(dBμV/m) 90.4	(dB)		(dBμV/m) 	(dBµ'		(dB) 				
4880 H	53.7	12.0		41.7	54	0	-12.3				



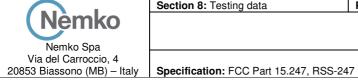
Section 8: Testing data	Product: EOS HP

			Test data, o	ontinu	ıed						
Antenna	a polarization	Measuring of	distance		EUT po	sition		Channel			
V	ertical	3 m		Vertical				Mid			
Spectral plots											
	\$\frac{\beta}{2}\$	Att	0 dB AUTO	RBW MT PREAM	1 MHz 1 s 1P OFF						
	dΒμV 100		†								
	-90		×						SGL		
	2 AV CLRWR								TDS		
	-70-										
	-60 AV							www.			
	-50-				. brunnyans	WAL MANAGER ALL MANAGER AND	John May	M' ·	6DB AC		
	-40	mmmmm	un lun	M	Mark						
	20AA		mlm	ww	ww						
	10										
	1 GHz							8 GHz			
		F	inal measure	ement	table						
Frequency (MHz)	Polarization V/H	Peak field strength (dBμV/m)	Duty cycle ( (dB)	corr.	Avg field st (dBµV/			ı limit uV/m)	Avg margin (dB)		
2440	V	98.3									



	Section 8: Testing data	Product: EOS HP
( Nèmko		
Nemko Spa		
Via del Carroccio, 4		
20853 Biassono (MB) - Italy	Specification: FCC Part 15.247, RSS-24	.7
20853 Biassono (MB) – Italy	Specification: FUC Part 15.247, RSS-24	1

			Test data,	contin	ued						
Antenna	a polarization	Measuring o	distance	EUT position				Channel			
H	Horizontal 3 m				Horiz	ontal			High		
Spectral plots											
	Ps	Att	0 dB AUTO	RBW MT PREA	1 MHz 1 s MP OFF						
	dΒμV 100		<u> </u>								
	-90								SGL		
	1 PK CLRWR		Î								
	2 AV										
	CLERWR PK								TDS		
	-60										
	AV						a metal Maria	marin			
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	-40		- WAA	ru VP/A	MANANO -						
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	230/	- 0.0	~~~~~~	mw	mm						
		^~~~~	J000**								
	10										
	1 GHz							8 GHz			
Frequency	Polarization	Peak field strength	inal measur Duty cycle		Avg field	strength	Δνα	g limit	Avg margin		
(MHz)	V/H	(dBμV/m)	(dB)	0011.	Avg fleid (dBμ)			μV/m)	(dB)		
2480	Н	99.4				-					



Section 8: Testing data	Product: EOS HP

			Test data,	continu	ıed			
Antenn	a polarization	Measuring of	distance		EUT position	on	Channel	
	Vertical	3 m		Horizontal				High
			Spectra	l plots				
		Att	0 dB AUTO	RBW MT PREAM	1 MHz 1 s MP OFF			
	dBµV		†					SGL
	CLRWR -80 -80 -READ PK -70							TDS
	-60					Jahlen Market	maken for the water	6DB
	-40 <del></del>		m mm	www.	add hours and a second			AC
	\sightarrow\color=\col		w	······	ww			
	10 1 GHz						8 GHz	
			inal measur					
Frequency (MHz)	Polarization V/H	Peak field strength (dBμV/m)	Duty cycle (dB)	corr.	Avg field stren (dBμV/m)	igth Av	/g limit 3μV/m)	Avg margin (dB)
2480	V	90.5						
4960	V	53.1	12.0		41.1		54.0	-12.9



	Section 8: Testing data	Product: EOS HP
( Nèmko		
Nemko Spa		
Via del Carroccio, 4		
20853 Biassono (MB) - Italy	Specification: FCC Part 15.247, RSS-24	7
, ,		

			Test data, o	ontinu	red						
Antenna	a polarization	Measuring of	distance	EUT position				Channel			
Но	orizontal	3 m	3 m Vertical				High				
Spectral plots											
	\$\$\frac{1}{2}\$	Att	0 dB AUTO	RBW MT PREAM	1 MHz 1 s MP OFF						
	dВµV 100										
	-90		†						SGL		
	2 AV PK		X						TDS		
	<b>-</b> 70										
	-60										
	-50-				, de la compart	, Mary Mary	Lymn	May Way	6DB AC		
	-40	a a la A mill transaction	my my	MW	adda funti	- thrown					
	<u> Ayyarriyarri</u>	mmmmm.		ww	www.						
	10	)(///									
	1 GHz	l			l		<u> </u>	8 GHz			
			inal measure								
Frequency (MHz)	Polarization V/H	Peak field strength (dBμV/m)	Duty cycle (dB)	corr.	Avg field stre (dBµV/m			limit uV/m)	Avg margin (dB)		
2480	Н	88.9									



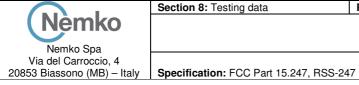
	Section 8: Testing data	Product: EOS HP
( Nèmko		
Nemko Spa		
Via del Carroccio, 4		
20853 Biassono (MB) - Italy	Specification: FCC Part 15.247, RSS-24	.7
20853 Biassono (MB) – Italy	Specification: FUC Part 15.247, RSS-24	1

			Test data, co	ntinue	d			
Antenna	polarization	Measuring o	distance	EUT position				Channel
Ve	ertical	3 m			Vertical			High
			Spectral <sub>I</sub>	olots				
	<b>%</b>	Att		RBW MT PREAMP	1 MHz 1 s OFF			
	dΒμV 100		Ţ					
	-90		X					SGL
	2 AV PK							TDS
	-70							
	-60 AV						, Mu. N	
	<del>-</del> 50				Mark de market de market	mathering and photosphilic		6DB AC
	-40	L L. L. M. M. L.	Mark Mark	MWW.	Marine			
	-3 <sup>-0</sup>	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	mulm	~~~~	W			
	10	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
	1 GHz	,		,	'	'	8 GHz	
			inal measurer					
Frequency F (MHz)	Polarization V/H	Peak field strength (dBμV/m)	Duty cycle co (dB)	orr. A	vg field strength (dBμV/m)		g limit μV/m)	Avg margin (dB)
2480	V	98.6						



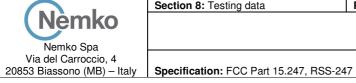
	Section 8: Testing data	Product: EOS HP
( Nèmko		
Nemko Spa		
Via del Carroccio, 4		
20853 Biassono (MB) - Italy	Specification: FCC Part 15.247, RSS-24	7
20853 Biassono (MB) - Italy	Specification: FCC Part 15.247, RSS-24	7

		Test data,	continu	ed					
Antenna polarization Measuring distance EUT pos			osition		Channel				
Horizontal	3 m	1		Hori	zontal		Low		
		Spectra	al plots						
Ref Lvl 80 dB*			RBW VBW SWT	1 M 3 M 100 m	Hz	Att it	0 dB $dB\mu V  extstyre$ $dB\mu V  extstyre$ $dB\mu V  extstyre$		
75D2 74 c	dB*-							SGL	
70									
65 1MAX 2MAX						,		1MA 2AV	
55—D1 54 dB*-				hwhyth		//www/////////////////////////////////		TDS	
45	The Manual Manual Wall	My mas v	** <b>\(\)</b>	m and	www	m	h man		
35	Mark Market	Anny frank							
30 Start 8 GHz		1 G	Hz/			Stop	18 GHz		
	F	inal measur	ement	table					
requency Polarization Pe (MHz) V/H	eak field strength (dBμV/m)	Duty cycle (dB)	corr.	Avg field (dBµ	strength V/m)		g limit μV/m)	Avg margin (dB)	



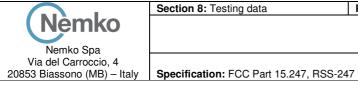
Section 8: Testing data	Product: EOS HP
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		Test data, con	inued			
Antenna polarization	Measuring d	istance	EUT positio	Channel		
Vertical	3 m		Horizontal		Low	
		Spectral plo	ots			
Ref Lvl 80 dB*		\	IBW 1 MHz /BW 3 MHz SWT 100 ms	RF Att Unit	O dB dBμV/m	
75D2	B*-				SGL	
65 1MAX 2MAX 60				, <sub>(A</sub>	1MA 2AV	
55 —D1 54 dB*—		Mary Mary Mary All	A TOP OF THE PARTY		TDS	
45 10 10 10 10 10 10 10 10 10 10 10 10 10		m M	white was	www.	May	
35		4.60			48.51	
Start 8 GHz		1 GHz/			18 GHz	
		nal measureme	ent table			
Frequency Polarization Per (MHz) V/H	ak field strength (dBµV/m)	Duty cycle corr (dB)	. Avg field streng (dBμV/m)		g limit Avg µV/m)	margin (dB)



Section 8: Testing data	Product: EOS HP

		Test data,	continu	ed						
Antenna polarization Measuring distance				EUT position				Channel		
Horizontal	3 r	n		Ve	rtical		Low			
		Spectra	al plots							
Ref Lvl 80 dB*			RBW VBW SWT	1 M 3 M 100 m	lHz	Att it	0 dB $dB\mu V \times m$			
75D2	dB*-							A		
70								6GL		
65 1MAX 2MAX						,,		IMA 2AV		
55—D1 54 dB*			للمراليد بالمعل			MW /	"Mary Mary	TDS		
45	Lababa de Malhabhara	MM As a	* <b>\</b>		~~~~	man de la companya de	Volume			
35	when when	mulan d	WY W							
30 Start 8 GHz	2	1 G	Hz/			Stop	18 GHz			
		Final measu	rement t	table _						
requency Polarization Per (MHz) V/H	eak field strength (dBμV/m)	Duty cycle (dB)	corr.		l strength เV/m)		g limit μV/m)	Avg margin (dB)		



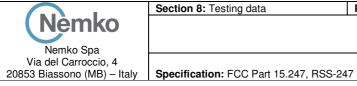
Section 8: Testing data	Product: EOS HP

		Test data, co	ontinue	ed							
Antenna polarization	Measuring d	listance		EUT position	Channel						
Vertical	3 m			Vertical			Low				
Spectral plots											
Ref Lvl 80 dB*			RBW VBW SWT	3 MHz	RF Att Jnit	0 dB dBμV/m					
75 ——D2 74 (	dB∗-						<b>A</b> GCL				
65 1MAX 2MAX							MA PAV				
				try har lever the		Many	rds				
. 14 4/1				an many more		Lumy					
35 MMM	Mary Mary Mary and	may 100	W								
30 Start 8 GHz		1 GHz		able	Stop	18 GHz					
Frequency Polarization Pe	eak field strength (dBμV/m)	Duty cycle co		Avg field streng (dBμV/m)		g limit βμV/m)	Avg margin (dB)				
					Ì						



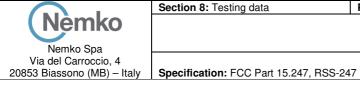
	Section 8: Testing data	Product: EOS HP
( Nèmko		
Nemko Spa		
Via del Carroccio, 4		
20853 Biassono (MB) - Italy	Specification: FCC Part 15.247, RSS-24	.7
20853 Biassono (MB) – Italy	Specification: FCC Part 15.247, RSS-24	.7

			Te	est data,	continu	ed				
Antenr	na polarization	tion Measuring distance EUT position				Channel				
Н	lorizontal		3 m			Hori	zontal			Mid
				Spectra	al plots					
	Ref Lvl 80 dB*				RBW VBW SWT	1 M 3 M 100 m	Hz	Att it	0 dB $dB\mu V  extstyre$ $dB\mu V  extstyre$ $dB\mu V  extstyre$	
	75 ——D2 74	dB*								SGL
	70 65									
	1MAX 2MAX 60									1MA 2A <b>V</b>
	55—D1 54 dB*	:		. h.lkl	الس ا اما	tw/h	Verilla de la companya della companya de la companya de la companya della company	\(\frac{1}{2}\delta\rightarro\right\right\right\right\right\right\right\right\right\righta	"MANAGE A	TDS
	45	Mar Maria	July Mi		A W	N <sup>w</sup> <sup>0</sup> u			h mayory	
	40	W. W.	way Mila	My		mar w	weekun	Murch		
	35 marriage	Marin Ch	•							
	Start B GH	Z	F: -	1 G				Stop	18 GHz	
requency	Polarization P	eak field streng		l measui uty cycle			strength	Δ.,	g limit	Avg margin
(MHz)	V/H	(dBμV/m)	יווון	(dB)	COII.	(dBµ	ιV/m)		βμV/m)	(dB)
						-	· <b>-</b>			



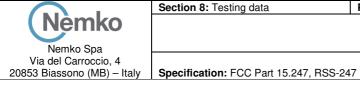
Section 8: Testing data	Product: EOS HP

		Test data, co	ntinued			
Antenna polarization	Measuring d	stance	EU	T position		Channel
Vertical	3 m		Н	orizontal		Mid
		Spectral p	olots			
Ref Lvl 80 dB*			VBW 3	MHz RF MHz Ims Uni		dB ↓V∠m
75D2	B*-					SGL
65 1MAX 2MAX 60					. M41	1MA 2AV
55	HALLING WAS A CAP					TDS
40		many	Warner July	human		<u>~</u>
35 30 Start 8 GHz	rv*	1 GHz/	,		Stop 18	GHz
	Fi	nal measuren	nent table			
Frequency Polarization Pe (MHz) V/H	ak field strength (dBμV/m)	Duty cycle co (dB)		eld strength IBμV/m)	Avg lim (dBμV/r	nit Avg margin m) (dB)



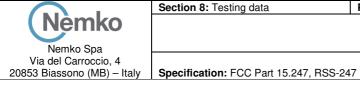
Section 8: Testing data	Product: EOS HP

		Test data,	continu	ed				
Antenna polarization	Measuring	distance		EUT p	osition			Channel
Horizontal	3 r	n		Ver	tical			Mid
		Spectra	al plots					
Ref Lvl 80 dB*			RBW VBW SWT	1 MH 3 MH 100 ms	Hz	Att	0 dB $dB\mu$ V/m	
75 D2 74 (	dB*							A
70	JD *							6GL
1MAX 2MAX 60						41.		LMA 2AV
55—D1 54 dB*-		1 m/M. u	M. Mur. M.	H., 1444			WWW.	rds
45	Hall And	WANTE OF THE PARTY	<u>₩₩₩₩</u>			10 A A A A A A A A A A A A A A A A A A A	humali	
40	My Maria	www.			****			
35 30 Start 8 GHz		1 G	Hz/			Stop	18 GHz	
		Final measu	rement	table				
equency Polarization Pe	eak field strength (dBμV/m)	Duty cycle (dB)		Avg field (dBµ			g limit µV/m)	Avg margin



Section 8: Testing data	Product: EOS HP

		Test data, co	ontinued				
Antenna polarization	Measuring d	listance	El	JT position		Cł	nannel
Vertical	3 m			Vertical			Mid
		Spectral p	plots				
Ref Lvl 80 dB*		, ,	VBW	1 MHz RF 3 MHz 0 ms Un:		O dB dBμV∕m	
75D2	dB*					SGL	
65 1MAX 2MAX					l M.	1MA 2AV	
55—D1 54 dB*	physical action of the state of		Harris Walder	HOTEL WAS A STREET		TDS	
45	physiological property	The same of the sa	· · · · · · · · · · · · · · · · · · ·	Marine Marine	man h	rannand	
35	month of the second	900 (2)					
Start 8 GH		1 GHz.			Stop 1	8 GHz	
Emmand Bloom		inal measurer				l''t	
Frequency Polarization P (MHz) V/H	eak field strength (dBμV/m)	Duty cycle co (dB)		ield strength dBμV/m)	Avg (dBμ'	V/m)	Avg margin (dB)
						-	



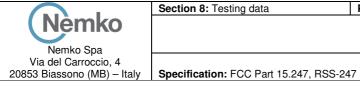
Section 8: Testing data	Product: EOS HP

		Test data, co	ntinued			
Antenna polarization	Measuring (	distance	EU	Γposition		Channel
Horizontal	3 m		Но	orizontal		High
		Spectral p	olots		·	
Ref Lvl 80 dB*				MHz RF Att	t O dB dB <i>μ</i> V∕m	
75	4 dB*-					<b>G</b> L
70						
65 1MAX 2MAX						MA AV
	3*	JII			<u> </u>	DS
45	White Had and the work of the last of the	Washington Committee	W		Muha	
40	Mhp. J. whom	my Mu my	www.nhan.or	mund man		
35 Munio N. 114	July William					
Start 8 (		1 GHz		S	Stop 18 GHz	
Francisco Polovinski		Final measuren		lal atmosperate	Assau Beerli	0.00
Frequency Polarization (MHz) V/H	Peak field strength (dBμV/m)	Duty cycle co (dB)		eld strength BμV/m)	Avg limit (dBμV/m)	Avg margin (dB)



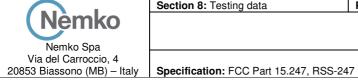
	Section 8: Testing data	Product: EOS HP
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Nemko Spa		
Via del Carroccio, 4		
20853 Biassono (MB) - Italy	Specification: FCC Part 15.247, RSS-24	.7
20853 Biassono (MB) – Italy	Specification: FCC Part 15.247, RSS-24	.7

		Test data, cor	ntinued			
Antenna polarization	Measuring d	istance	EUT	position		Channel
Vertical	3 m		Но	rizontal		High
		Spectral p	olots			
Ref Lvl 80 dB*				MHz RF MHz ms Uni		dB uV∕m
75D2	dB*					SGL
65 1MAX 2MAX					1,04	1MA 2AV
55—D1 54 dB*-		W North W		hummy	M .	TDS
45	Howele Waller Mary		War w	Lumana	Mar.	<u></u>
35	was and will all					
Start 8 GHz	<u>.                                    </u>	1 GHz/	<u> </u>		Stop 18	GHz
		nal measurem				
Frequency Polarization Per (MHz) V/H	eak field strength (dBμV/m)	Duty cycle cor (dB)	rr. Avg fie	ld strength βμV/m)	Avg lin (dBμV/i	nit Avg margin m) (dB)



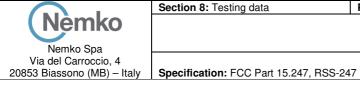
Section 8: Testing data	Product: EOS HP

		Test data, cont	tinued							
Antenna polarization	Measuring di	stance	EUT positi	on	(	Channel				
Horizontal	3 m		Vertical			High				
Spectral plots										
Ref Lvl 80 dB*		\	RBW 1 MHz /BW 3 MHz GWT 100 ms	RF Att Unit	O dB dBμV∕m					
75D2	dB∗-					<b>9</b> GL				
70										
65 1MAX 2MAX						MA AV				
55_D1 54 dB*-	White The Property of the State				<u> </u>	DS				
45		MMA AMMAA	July July		Y humany					
40	, , , , , M	man	more more	Larrange						
35	NAME OF THE PERSON OF THE PERS									
30 Start 8 GHz		1 GHz/	· · ·	Stop	18 GHz					
Frequency Polarization Per (MHz) V/H	Fireak field strength (dBμV/m)	nal measureme Duty cycle corr (dB)			g limit BµV/m)	Avg margin (dB)				



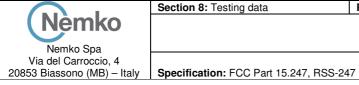
Section 8: Testing data	Product: EOS HP

		Test data, con	tinued			
Antenna polarization	Measuring di	stance	EUT p	osition		Channel
Vertical	3 m		Ver	tical		High
		Spectral pl	ots			
Ref Lvl 80 dB*			RBW 1 MI VBW 3 MI SWT 100 m:	Hz	O dB dBμV/m	
75D2	#B*					<b>G</b> L
70						
1MAX 2MAX 60						MA AV
55 D1 54 dB*-				Lateral March Lateral	Y Wholey have	DS
45	Hollywyrun	Hr Hilling of Hilling	JAN DI		Muny	
40	50 UU		A A A A A A A A A A A A A A A A A A A	munum		
35						
30 Start 8 GHz		1 GHz/		Stop	18 GHz	
		nal measurem				
Frequency Polarization Per (MHz) V/H	eak field strength (dBμV/m)	Duty cycle cor (dB)	r. Avg field (dBµ		vg limit BμV/m)	Avg margin (dB)
			-	-		



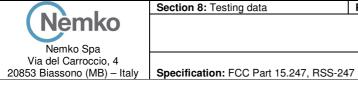
Section 8: Testing data	Product: EOS HP	

		Test data, cont	nued			
Antenna polarization	Measuring d	istance	EUT position	Channel		
Horizontal	3 m		Horizonta	l		Low
		Spectral plo	ts			
Ref Lvl 90 dB*		V	3W 1 MHz 3W 3 MHz WT 70 ms	RF Att Unit	O dB dBμV∕m	
D2 74 df 70  1MAX 4 dB* 50  40  20  10	3*-				1M 2A	iA V
-10 Start 18 GHz		700 MHz/	nt table	Stop	25 GHz	
Frequency Polarization Pea	ak field strength (dBµV/m)	Duty cycle corr. (dB)		gth Av	g limit BµV/m)	Avg margin (dB)
			(αΔμν/ιιι) 	(GE		



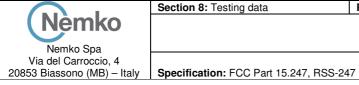
Section 8: Testing data	Product: EOS HP	

				Te	est data,	continu	ed				
Antenna polarization			Measuring distance				EUT p	oosition	Channel		
Ver	rtical			3 m			Hori	zontal			Low
					Spectra	al plots					
Ć.	Ref Lvl 90 dB*					RBW VBW SWT	1 M 3 M 70 m	Hz	Att it	0 dB dB <i>µ</i> V/m	
	80 D2 7	4 dB*									A
	60 1MAX 2 1MAX	B*									1MA
	50										2 <b>AV</b>
	30 <b>WWW.WW</b>	when	Multinum.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			may but	andered hyple	Way Marin	myw,	TDS
	10	^_vw	vw~~vf								
	-10 Start 18	GHz			700	MHz/			Stop	25 GHz	
				Fina	l measui	ement	table _				
requency P (MHz)	olarization V/H		eld streng 3μV/m)		uty cycle (dB)		Avg field	l strength ιV/m)		rg limit βμV/m)	Avg margin (dB)
								-			



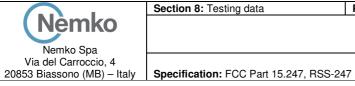
Section 8: Testing data	Product: EOS HP	

			Т	est data,	continu	ed				
Antenna	Antenna polarization Measuring distance			tance		EUT p	position	Channel		
Н	orizontal	ontal 3 m				Ve	rtical			Low
				Spectra	al plots					
	Ref Lvl 90 dB*				RBW VBW SWT	1 M 3 M 70 m	lHz	Att it	0 dB dB <i>μ</i> V/m	
	80 ——D2 7	<sup>2</sup> 4 dB*								А
	60 1MAX 271Ax54	lB*								1MA 2AV
	40			- Amhara a	alu Mapha	red <sub>ak</sub> M	Luray mag	Mar ar	ma a Mhu	TDS
	20	www.		W		- Ann	<u>.</u>	\	·	
	0									
	-10	GHz		700	MHz/			Stop	25 GHz	
				al measu						
Frequency (MHz)	Polarization V/H	Peak field stre (dBμV/m		Duty cycle (dB)	corr.		l strength ιV/m)		g limit BµV/m)	Avg margin (dB)
						-				



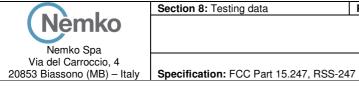
Section 8: Testing data	Product: EOS HP	

		Test data, con	tinued					
Antenna polarization	Measuring d	istance	EUT	position		Channel		
Vertical	3 m		Ve	ertical		Low		
		Spectral pl	ots					
Ref Lvl 90 dB*				MHz RF ( MHz ms Uni		m		
B0	habolah ma			Mr Welland In	L. C. Mill Manuall	1MA 2AV		
-10 Start 18 GH:	z	700 MHz.	/		Stop 25 GHz	Z		
	<u>_</u> Fi	nal measurem	ent ta <u>ble</u>					
Frequency Polarization Pe (MHz) V/H	ak field strength (dBµV/m)	Duty cycle cor (dB)	r. Avg field	d strength μV/m)	Avg limit (dBμV/m)	Avg margin (dB)		



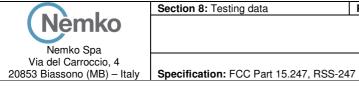
Section 8: Testing data	Product: EOS HP

		Test data, co	ontinue	d			
Antenna polarization	Measuring d	istance		EUT position	Channel		
Horizontal	3 m			Horizontal			Mid
		Spectral <sub>I</sub>	plots				
Ref Lvl 90 dB*			RBW VBW SWT	3 MHz	RF Att Jnit	0 dB dB <i>μ</i> V/m	
80 ————————————————————————————————————			MywyM		A LAND A	2	IMA PAV
-10	Z	700 MH	łz/		Stop	25 GHz	
	Fi	inal measurer	ment <u>ta</u>	ıble			
Frequency Polarization Pea (MHz) V/H	ak field strength (dBμV/m)	Duty cycle co	orr. A	Avg field strengt (dBμV/m)	h Av	g limit βμV/m)	Avg margin (dB)



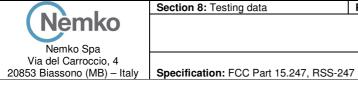
Section 8: Testing data	Product: EOS HP	

				Τe	est data,	continu	ıed				
Antenna	a polarization		Measur	ing dist	ance		EUT p	osition			Channel
V	/ertical			3 m		Horizontal				Mid	
					Spectra	al plots					
	Ref Lvl 90 dB*					RBW VBW SWT	1 MH 3 MH 70 ms	Hz		0 dB dB <i>µ</i> V/m	
	80	'4 dB*—									A
	70	4 00*-									
	1MAX	lB∗									1MA 2AV
	50										2114
	30	- de la constitución de la const	home	Africa Color	m year	MMM	Uh wander	mumm	Lember	mmym	TDS
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	10										
	0										
	-10 Start 18	GHz			700	MHz/			Stop	25 GHz	
					l measui						
Frequency (MHz)	Polarization V/H		eld stren ΒμV/m)	gth D	uty cycle (dB)	corr.	Avg field (dΒμ'	strength V/m)	Avg (dB	g limit μV/m)	Avg margin (dB)



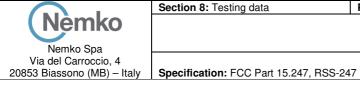
Section 8: Testing data	Product: EOS HP

			Т	est data,	continu	ıed					
Antenn	na polarization	Meas	uring dis	tance		EUT po	sition			Channel	
Н	lorizontal		3 m		Vertical				Mid		
				Spectra	al plots						
	Ref Lvl 90 dB*				RBW VBW SWT	1 MHz 3 MHz 70 ms			O dB dBμV/m		
	80	74 dB*-								А	
	70										
	1MAX 2Mhx54 0 50	dB*								1MA 2AV	
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	20	Mundahul					~~	~~~~	<u></u> ————————————————————————————————————		
	10										
	0										
	-10 Start 18	GHz		700	<b>L</b> MHz∕			Stop	25 GHz		
				al measui							
Frequency (MHz)	Polarization V/H	Peak field str (dBμV/m		Duty cycle (dB)	corr.	Avg field st (dBµV/	trength /m)	Avg (dB	g limit μV/m)	Avg margin (dB)	



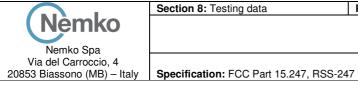
Section 8: Testing data	Product: EOS HP

		Test data, co	ontinued				
Antenna polarization	Measuring d	istance		EUT position			Channel
Vertical	3 m			Vertical			Mid
		Spectral p	olots				
Ref Lvl 90 dB*			RBW VBW SWT	3 MHz	Att	0 dB dB <i>μ</i> V∕m	
80 ————————————————————————————————————			~~~~~	Lucker works Luck	Lun qu'Al de la company	1 2	MA AV
-10 Start 18 GHz	Z	700 MH:	Z/		Stop	25 GHz	
	Fi	nal measurer	nent tat	ole			
Frequency Polarization Pea (MHz) V/H	ak field strength (dBµV/m)	Duty cycle co	orr. A	vg field strength (dΒμV/m)	Avg (dB)	g limit μV/m)	Avg margin (dB)



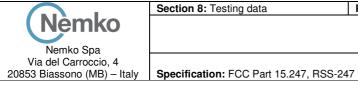
Section 8: Testing data	Product: EOS HP

		Test data, con	tinued			
Antenna polarization	Measuring of	distance	EUT pos	ition	С	hannel
Horizontal	3 m		Horizon	ıtal		High
		Spectral pl	ots			
Ref Lvl 90 dB*			RBW 1 MHz VBW 3 MHz SWT 70 ms	RF Att Unit	0 dB dB <i>μ</i> V/m	
80 ————————————————————————————————————	All water with the water	Mark July Marks Adams		Marine Ma	1M 2A	A V
-10 Start 18	GHz	700 MHz.	,	Stop	25 GHz	
	F	inal measurem	ent table			
Frequency Polarization (MHz) V/H	Peak field strength (dBμV/m)	Duty cycle cor (dB)		ength Av	g limit βμV/m)	Avg margin (dB)



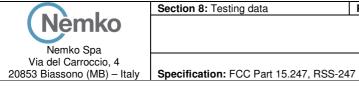
Section 8: Testing data	Product: EOS HP

		Test data, cont	inued			
Antenna polarization	Measuring di	stance	EUT posi	tion	C	Channel
Vertical	3 m		Horizon	tal		High
		Spectral plo	ots			
Ref Lvl 90 dB*		V	BW 1 MHz BW 3 MHz WT 70 ms	RF Att	O dB dBμV∕m	
80				Mulder	1 M 2 A	iA V
−10 Start 18 GH:	z	700 MHz/		Stop	25 GHz	
	Fir	nal measureme	ent table			
Frequency Polarization Pe (MHz) V/H	ak field strength (dBμV/m)	Duty cycle corr (dB)		ength Av	g limit BµV/m)	Avg margin (dB)



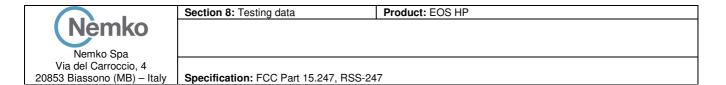
Section 8: Testing data	Product: EOS HP

				T€	est data,	continu	ıed				
Antenn	a polarization		Measur	ing dist	ance		EUT p	osition			Channel
Н	orizontal			3 m	Vertical				High		
					Spectra	al plots					
	Ref Lvl 90 dB*					RBW VBW SWT	1 M 3 M 70 m	Hz	Att t	0 dB dBμV/m	
	80	<sup>7</sup> 4 dB*—									A
	70	4 05*									
	60 1MAX 2MAX 4	dB*									1MA 2AV
	50										ZHV
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	10										
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	-10 <b>L</b> Start 18	3 GHz			700	MHz/			Stop	25 GHz	
				Fina	l measui	rement	table _				
Frequency (MHz)	Polarization V/H		eld stren ΒμV/m)	gth D	uty cycle (dB)	corr.	Avg field (dBµ	strength V/m)	Av (dE	g limit BµV/m)	Avg margin (dB)
							-	-			



Section 8: Testing data	Product: EOS HP

				Test data,	continu	ed				
Antenna polarization Measuring di		g distance EUT position			Channel					
,	Vertical		3 m			Ver	tical			High
				Spectra	al plots					
	Ref Lvl 90 dB*				RBW VBW SWT	1 MH 3 MH 70 ms	Hz	Att t	0 dB $dB\mu V  extstyle m$	
	80 D2 7	4 dB*-								A
	60 1MAX 271hx54 d	B*								1MA 2AV
	40				N . M Mod	Walla A MA	Maria Mala	A	Mh ad bla	TDS
	20	~~~~~~				~	mu, _	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<del>~~~</del> ~~	
	0									
	-10 Start 18	GHz		700	MHz/			Stop	25 GHz	
				nal measu	rement t	table				
requency (MHz)	Polarization V/H	Peak field s (dBμV/		Duty cycle (dB)	corr.	Avg field (dBµ			g limit μV/m)	Avg margin (dB)
						_				



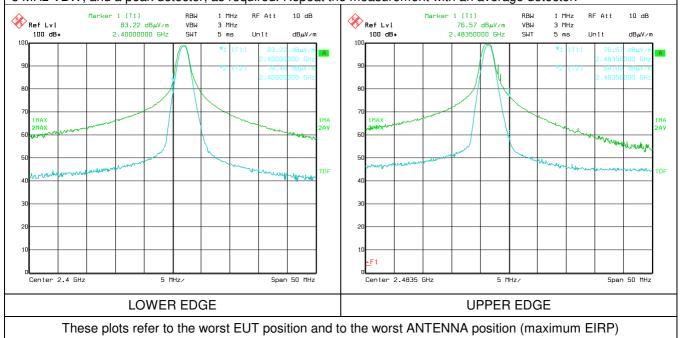
## Test data, continued

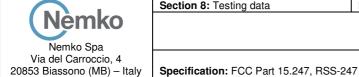
## Band-edge evaluation.

In making radiated band-edge measurements, there can be a problem obtaining meaningful data because a measurement instrument that is tuned to a band-edge frequency might also capture some in-band signals when using the specified RBW. In an effort to compensate for this problem, the Marker-delta procedure has been used for determining band-edge compliance.

## Spectral plots

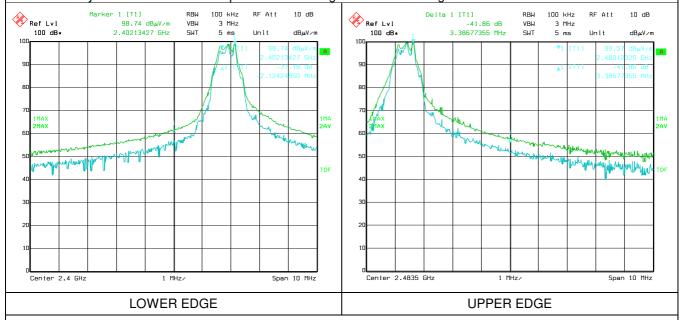
Step a). Perform an in-band field strength measurement of the fundamental emission using the RBW and detector function required for the frequency being measured. For transmitters operating above 1 GHz, use a 1 MHz RBW, a 3 MHz VBW, and a peak detector, as required. Repeat the measurement with an average detector.





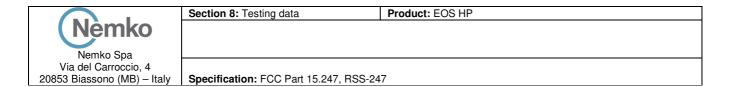
Section 8: Testing data	Product: EOS HP

Step b). Choose an EMI receiver or spectrum analyzer span that encompasses both the peak of the fundamental emission and the band-edge emission under investigation. Set the instrument RBW to 1% of the total span (but never less than 30 kHz), with a VBW equal to or greater than three times the RBW. Record the peak levels of the fundamental emission and the relevant band-edge emission (i.e., run several sweeps in peak hold mode). Observe the stored trace and measure the amplitude delta between the peak of the fundamental and the peak of the band-edge emission. This is not an absolute field strength measurement; it is only a relative measurement to determine the amount by which the emission drops at the band edge relative to the highest fundamental emission level.



Step c). Subtract the delta measured in step b) from the field strengths measured in step a). The resulting field strengths (CISPR QP, average, or peak, as appropriate) are then used to determine band-edge emissions compliance, where required.

Lower Edge Level (PK)	-37.2 dBc
Lower Edge Level (AV)	-42.3 dBc
Upper Edge Level (PK)	-41.8 dBc
Upper Edge Level (AV)	-46.9 dBc



## 8.6 Clause 15.247(a)(2) Minimum 6 dB bandwidth

FCC § 15.247 Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

(2) Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

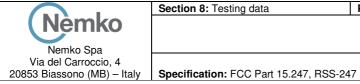
### **RSS-247 Clause 5.2**

(1) The minimum 6 dB bandwidth shall be 500 kHz.

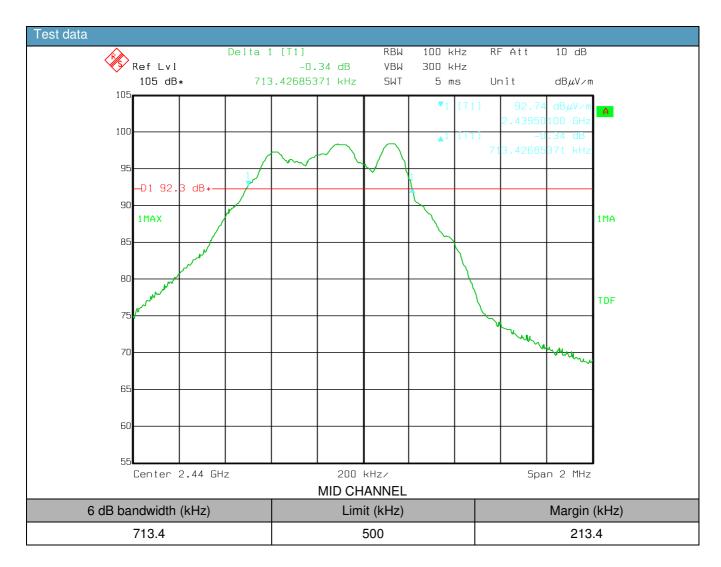
### Special notes

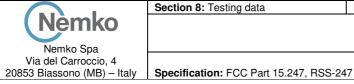
The test was performed using peak detector of the spectrum analyzer with RBW = 100 kHz and VBW > 3 x RBW.



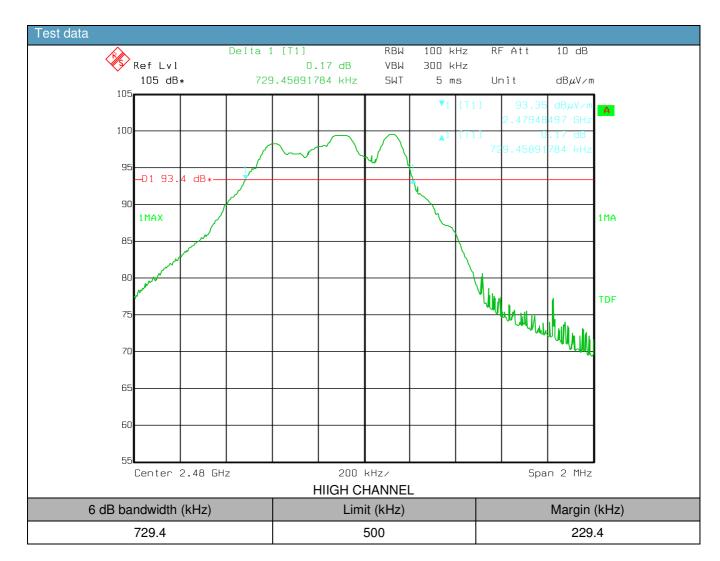


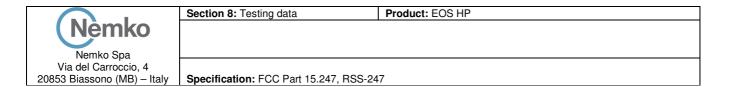
Section 8: Testing data	Product: EOS HP





Section 8: Testing data	Product: EOS HP





## 8.7 Clause 15.247(e) Power spectral density for digitally modulated devices

FCC § 15.247 Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

(e) For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

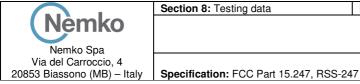
### **RSS-247 Clause 5.2**

(2) The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of Section 5.4(4), (i.e. the power spectral density shall be determined using the same method as is used to determine the conducted output power).

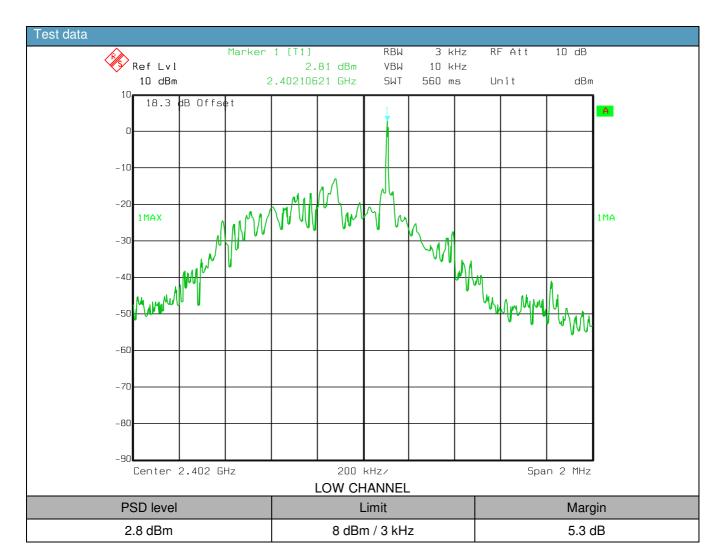
### Special notes

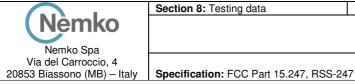
Method PKPSD (peak PSD) used as following:

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to 3 kHz ≤ RBW ≤ 100 kHz.
- d) Set the VBW  $\geq$  [3  $\times$  RBW].
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- i) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

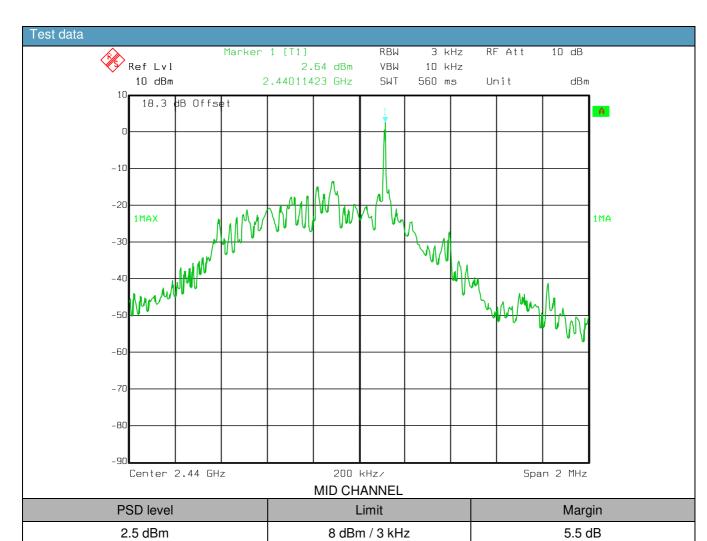


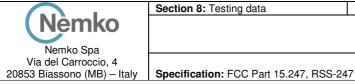
Section 8: Testing data	Product: EOS HP



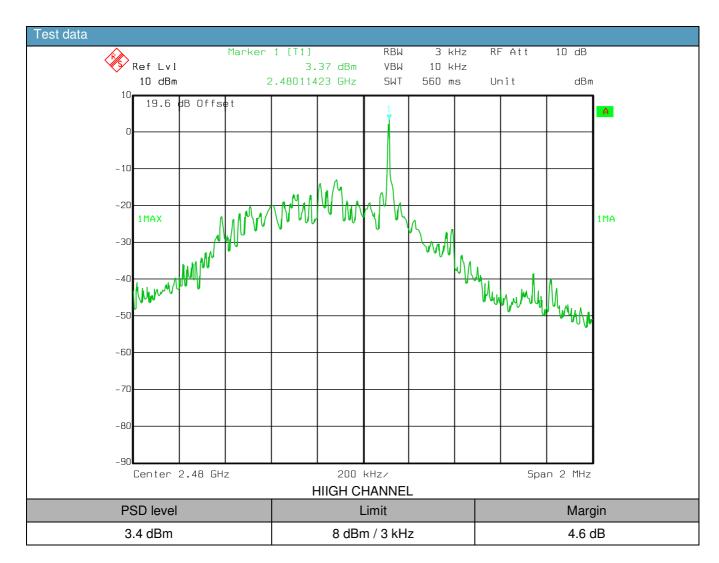


Section 8: Testing data	Product: EOS HP





Section 8: Testing data	Product: EOS HP

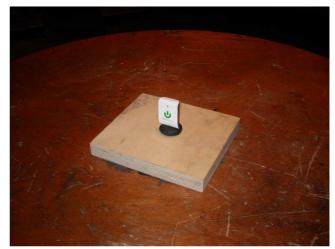




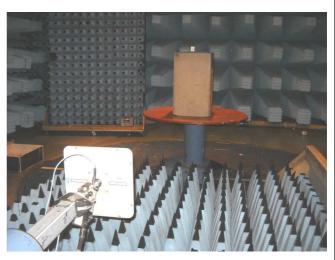
Specification: FCC Part 15.247, RSS-247

# 8.8 Setup photos



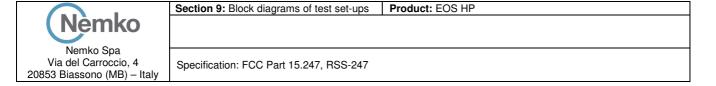




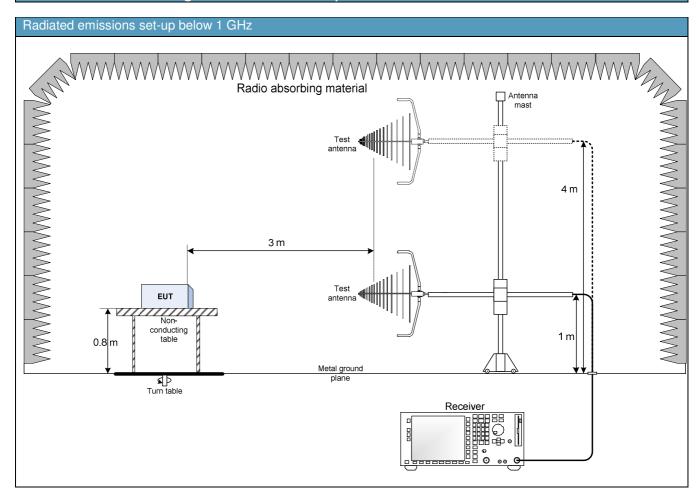








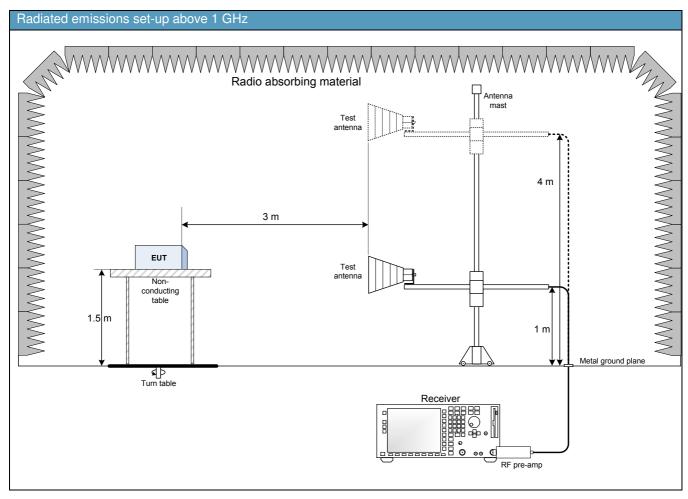
## Section 9: Block diagrams of test set-ups

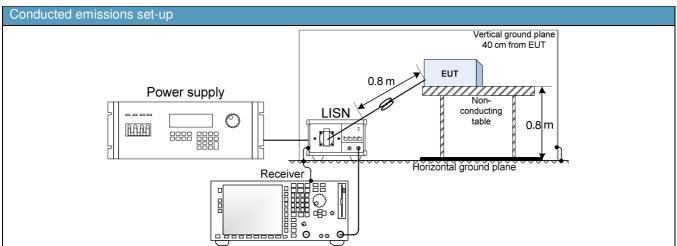




Section 9: Block diagrams of test set-ups	Product: EOS HP
0 '' ' 500 D 145 047 D00 047	

Specification: FCC Part 15.247, RSS-247







Section 10: EUT photos

Product: EOS HP

# Section 10: EUT photos







