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Via del Carroccio, 4 – 20853 Biassono (MB) – Italy

Report Reference ID:	318873-2TRFFCC
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Test specification:	Title 47-Telecommunication Chapter I - Federal Communications Commission Subchapter A - General Part 15 - Radio Frequency Devices Subpart C - Intentional Radiators
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Applicant:	ZADI S.P.A. – Via C.Marx, 138 – 41012 Carpi (MO) – Italy
Apparatus:	RSS Main Unit
FCC ID:	VFZKLGZADI01
Model:	XCB0301 (Cable 220 mm) XCB0300 (Cable 570 mm)- VARIANT

Testing laboratory:	Nemko Spa Via del Carroccio, 4 – 20853 Biassono (MB) – Italy Telephone: +039 039 2201201 Facsimile: +39 039 220 1221
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	Name and title	Date
Tested by:	P. Barbieri, Wireless/EMC Specialist <i>Barbieri Paul</i>	2016-11-16
Reviewed by:	G. Curioni, Wireless/EMC Specialist <i>Curioni G</i>	2016-11-16

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Section 1: Report summary

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Section 1: Report summary

This report contains an assessment of apparatus against specifications based upon tests carried out on samples submitted at Nemko S.p.A.

Test specification:

FCC Part 15 Subpart C

Operation within the band 134.5 kHz

Compliance status:	Complies
Exclusions:	None
Non-compliances:	None
Report release history:	Original release
Test location:	Via del Carroccio, 4 – 20853 Biassono (MB) – Italy
Registration number:	481407

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.

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Section 2: Equipment under test

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Section 2: Equipment under test

2.1 Identification of equipment under test (EUT)

The following information identifies the EUT under test:

Type of equipment:	RSS Main unit
Product marketing name:	ZADI
Model :	XCB0301 and XCB0300
Serial number:	Not provided
Nemko sample number:	318873
FCC ID:	VFZKLMZADI01
Date of receipt:	2016-11-07

2.2 Accessories and support equipment

The following information identifies accessories used to exercise the EUT during testing:

The EUT has been tested supplied by an external DC power source and with the loop antenna connected by a 220 mm length cable and by a 570 mm length cable. The CAN BUS line was connected to a CAN BUS simulator. The I/O TANK CAP line was wired only. The DISABLE SIGNAL INPUT line was connected to the positive line of the power supply. The other lines were connected to a switch and two led for simulate the normal working installation. The following auxiliary equipment has been used:

CAN to USB converter	National Instrument	P/N 194210D-D2L
Notebook	HP	Compaq NC 6320
Active transponder	ZADI	K0346-0

2.3 EUT description

The EUT is the main unit for a Rider Recognition System (RRS) . Main unit with LF antenna.

Models are:

XCB0301

XCB0300

They differ for cable length to LF antenna

XCB0301 is provided with cable 220 mm

XCB0300 is provided with cable 570 mm

LF antenna code is EL0359. The variant code EL0282 is same antenna with a a rubber gasket mounted on. See also page 11.



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Section 2: Equipment under test

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Section 2: Equipment under test, continued

2.4 Technical specifications of the EUT

Operating frequency:	134.5 kHz
Modulation type:	ASK
Occupied bandwidth:	5.4 kHz
Emission designator:	5K40A1D
Antenna data:	Loop antenna
Antenna type:	LF antenna code is EL0359. The variant code EL0282 is same antenna with a a rubber gasket mounted on. See page 11
Power source	13.5 Vdc nominal (7.5 – 16 Vdc)



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Section 2: Equipment under test, continued

2.5 EUT setup diagram

See page 34

2.6 Operation of the EUT during testing

Continuous transmission mode

2.7 Modifications incorporated in the EUT

None



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Section 3: Test conditions

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Section 3: Test conditions

3.1 Deviations from laboratory tests procedures

No deviations were made from laboratory test procedures.

3.2 Test conditions, power source and ambient temperatures

Normal temperature, humidity and air pressure test conditions	Temperature: 15–30 °C Relative humidity: 20–75 % Air pressure: 860–1060 hPa 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 recorded 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.

3.3 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 to CISPR 16-4-2 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4-2: Uncertainties, statistics and limit modelling – Uncertainty in EMC measurements" and is documented in the Nemko Spa Technical Procedure WML1002. 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



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Section 3: Test conditions, continued

3.4 Test equipment

Loop antenna	R&S	HFH2-Z2	831247/011	02/2017
Trilog Broad Band Antenna 25 MHz÷2 GHz	Schwarzbeck	VULB 9162	9162-025	07/2018
Bilog antenna 1 ÷18 GHz	Schwarzbeck	STLP 9148	9148-123	06/2018
Broadband preamplifier 1 ÷18 GHz	Schwarzbeck	BBV 9718	9718-137	12/2016
EMI receiver 20 Hz ÷ 8 GHz	R&S	ESU8	100202	09/2017
Spectrum Analyzer 9 KHz ÷ 40 GHz	R&S	FSEK	848255/005	01/2017
Semi-anechoic chamber	Nemko	10m semi-anechoic chamber	530	10/2018
Shielded room	Siemens	10m control room	1947	NCR
Loop antenna	R&S	HFH2-Z2	831247/011	02/2017

Note: N/A = Not Applicable, NCR = No Cal Required, COU = CAL On Use



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Section 4: Result summary

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Section 4: Result summary

4.1 FCC Part 15 Subpart C: Test results

The column headed 'Required' indicates whether the associated clauses were invoked for the apparatus under test. The following abbreviations are used:

N	No : not applicable / not relevant.
Y	Yes : Mandatory i.e. the apparatus shall conform to these tests.
N/T	Not Tested, mandatory but not assessed. (See report summary)

Part	Test description	Required	Result
General requirements for FCC Part 15			
§15.31(e)	Variation of power source	Y	P
§15.203	Antenna requirement	Y	P
§15.207(a)	Conducted limits	N	N/A
§15.215(c)	20 dB bandwidth	Y	P
Specific requirements for FCC Part 15 Subpart C			
§15.209(c)	Radiated emission limits, general requirements	Y	P

Notes:

Possible test case verdicts:

test case does not apply to the test object: N/A (Not applicable)

test object does meet the requirement: P (Pass)

test object does not meet the requirement: F (Fail)



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Appendix A: Test results

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Appendix A: Test results

Clause 15.31(e) Variation of the power source

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.

Test date: 2016-11-14

Test results: Pass

Test data

Transmit output power was measured while supply voltage was varied from 7.5 – 16 Vdc (greater 85 % to 115 % of the nominal rated supply voltage). No change in transmit output power and frequency was observed.



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Appendix A: Test results

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Clause 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. 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.

Test date: 2016-11-14

Test results: Pass

Test data

- EUT is designed so that the end user may replace a broken antenna.
- The EUT is professionally installed.

Detailed photo of antenna EL0359



Detailed photo of antenna EL0282





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Appendix A: Test results

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Clause 15.207(a) Conducted limits

An intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15–0.5	66 to 56*	56 to 46*
0.5–5	56	46
5–30	60	50

*Decreases with the logarithm of the frequency.

Test date: N/A

Test results: N/A

Special notes

The EUT is connected to a vehicle battery.

Preview measurements:

0.15 MHz to 30 MHz

Receiver settings:

- Peak and average detector
- 9 kHz RBW
- Spectral plots have been corrected for transducer factors; cable loss, LISN, and attenuators.
- Emissions detected within 6 dB of limit were re-measured with a quasi peak or average detector for a final measurement.

Final measurement:

0.15 MHz to 30 MHz

Receiver settings:

- Q-Peak and average detector
- 9 kHz RBW



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Clause 15.215(c) 20 dB bandwidth

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80 % of the permitted band in order to minimize the possibility of out-of-band operation.

Test date: 2016-11-14

Test results: Pass

Special notes

None



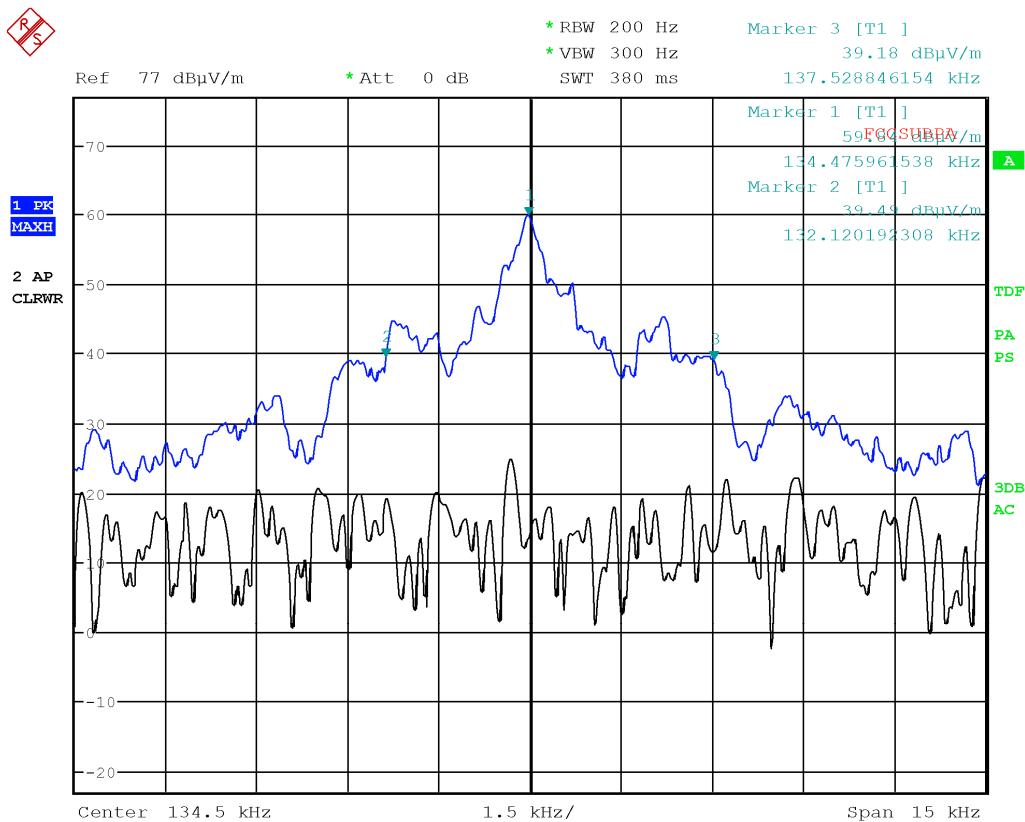
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Test data



20 dB bandwidth	Limit	Margin
5.4 kHz	No requirements	--



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Clause 15.209() Field Strength of any emissions

Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field strength		Measurement distance (m)
	(μ V/m)	(dB μ V/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 = 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.

Test date: 2016-11-10

Test results: Pass



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Appendix A: Test results

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Clause 15. 209 Field Strength of any emissions continued

Special notes

- The spectrum was searched from 9 kHz to the 10th harmonic.
- The EUT was measured on three orthogonal axis.
- All measurements were performed at a distance of 10 m (9 kHz to 30 MHz) and 3 m (30 MHz to 6 GHz)
- All measurements were performed:
 - below 30 MHz: using a quasi-peak detector with 9 kHz/30 kHz RBW/VBW,
 - within 30–1000 MHz range: using a quasi-peak detector with 120 kHz/300 kHz RBW/VBW,
 - above 1 GHz: using peak detector with 1 MHz/3 MHz RBW/VBW for peak results
 - and using averagedetector with 1 MHz/10 Hz RBW/VBW for average results
 - Only the worst data presented in the test report.

§ 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			



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Appendix A: Test results

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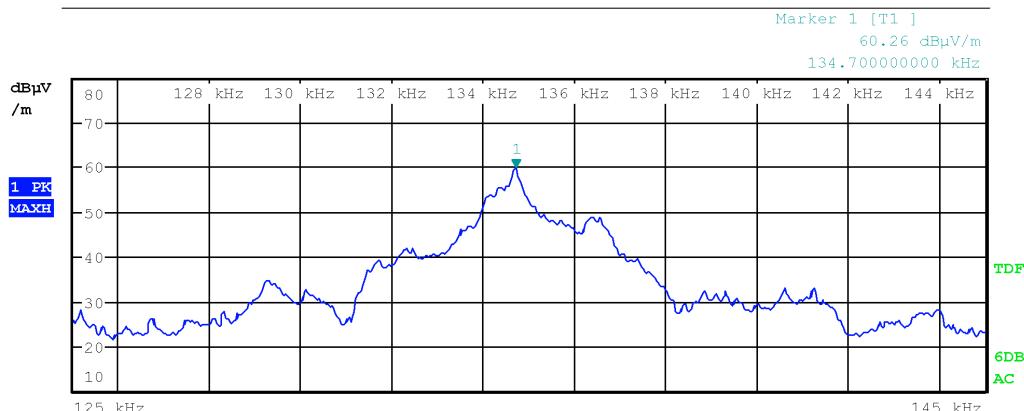
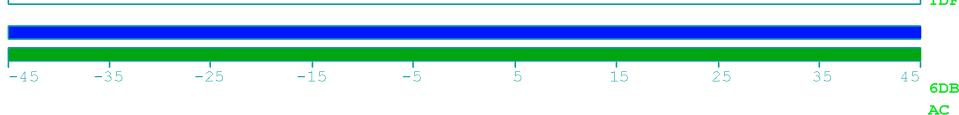
Clause 15. 209 Field Strength of any emissions

Test data, continued



RBW 200 Hz
MT 100 ms
Att 0 dB AUTO
PREAMP ON

FREQUENCY 134.7000 kHz
PK+ 60.26 dB μ V/m (60.3 134.7000 kHz)
AV 51.90 dB μ V/m (54.9 134.7000 kHz)



CARRIER – EUT with 220 mm cable



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Appendix A: Test results

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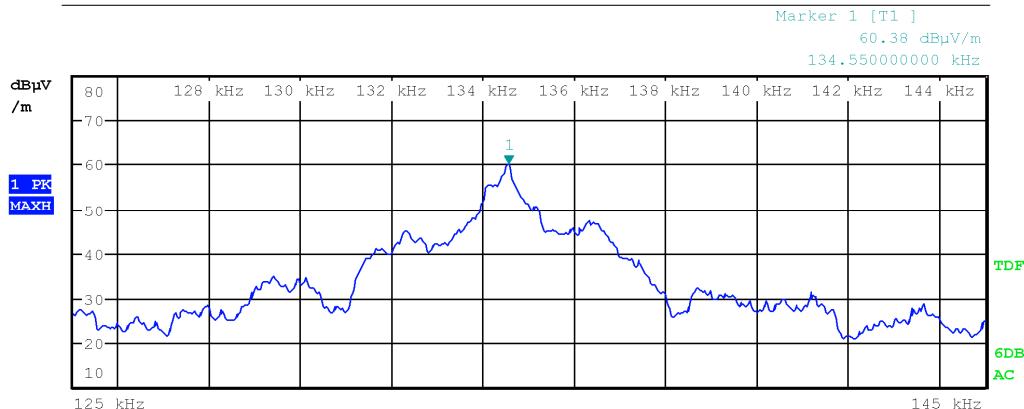
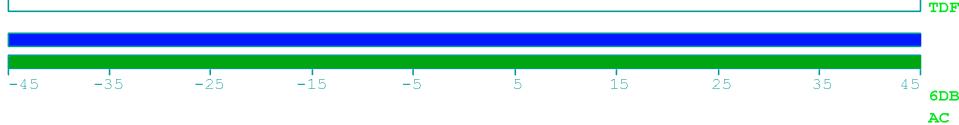
Clause 15. 209 Field Strength of any emissions

Test data, continued



RBW 200 Hz
MT 100 ms
Att 0 dB AUTO
PREAMP ON

FREQUENCY 134.5500 kHz
PK+ 60.44 dB μ V/m (60.5 134.5500 kHz)
AV 52.90 dB μ V/m (55.4 134.5500 kHz)



CARRIER – EUT with 570 mm cable



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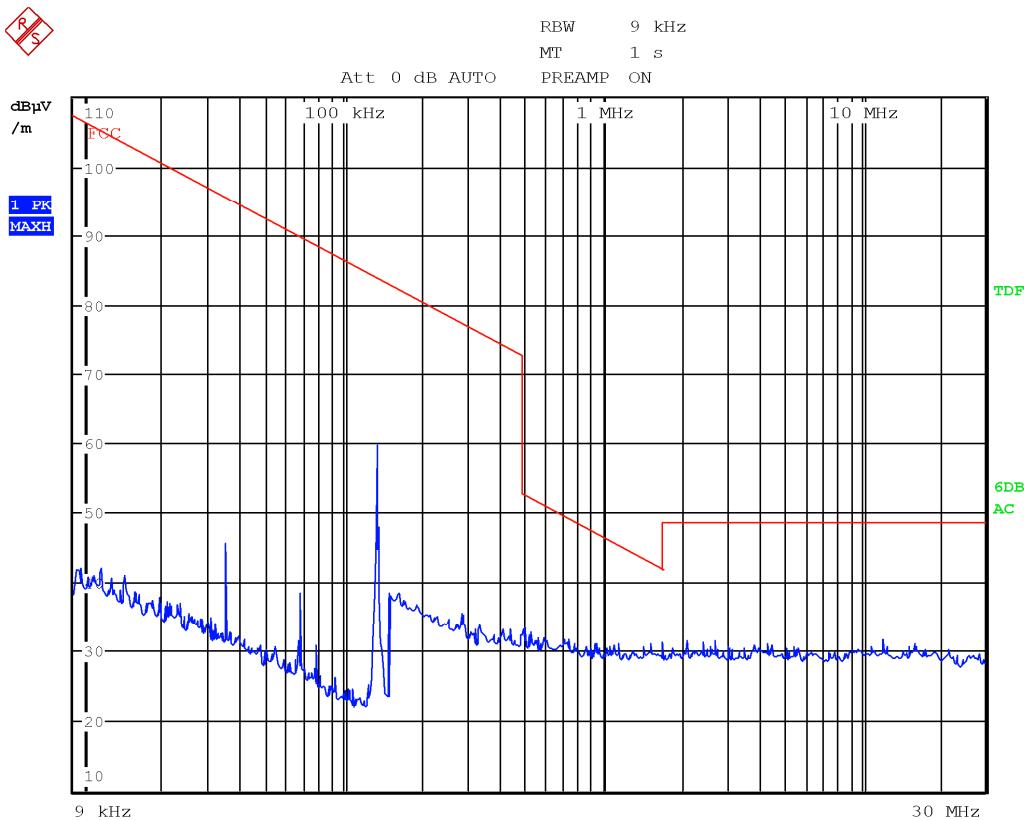
Appendix A: Test results

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Clause 15. 209 Field Strength of any emissions

Test data, continued



Loop antenna @ 10 m – EUT with 220 mm cable



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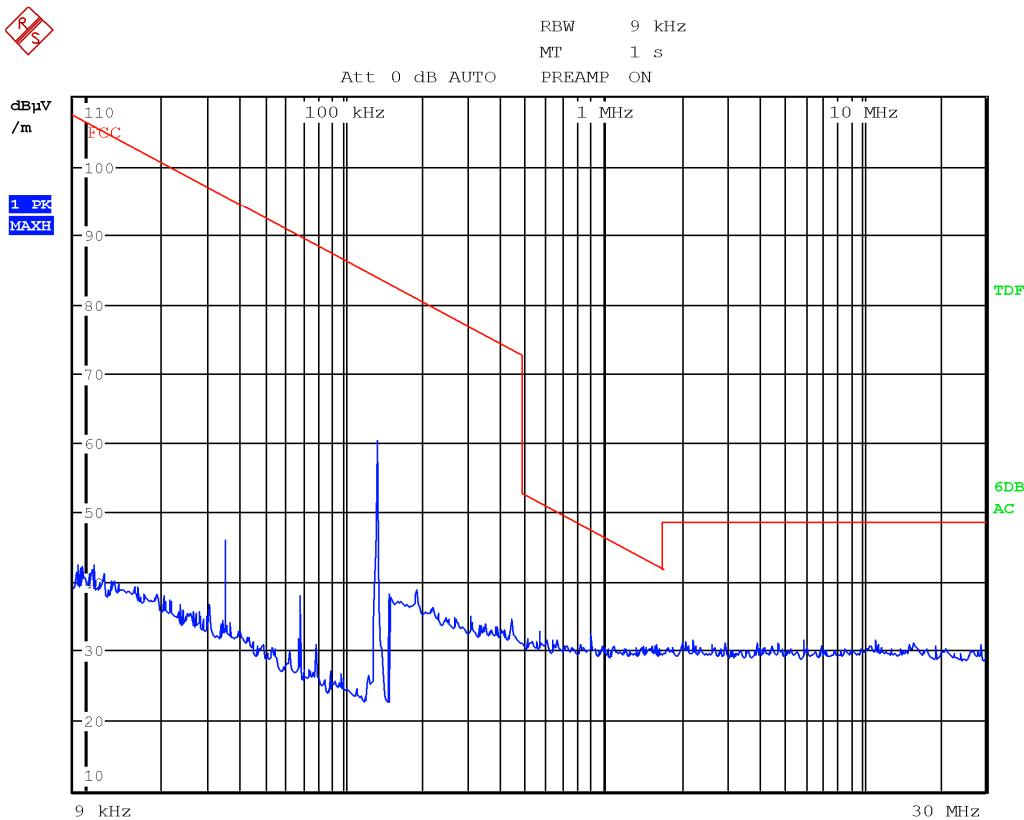
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Clause 15. 209 Field Strength of any emissions

Test data, continued



Loop antenna @ 10 m – EUT with 570 mm cable



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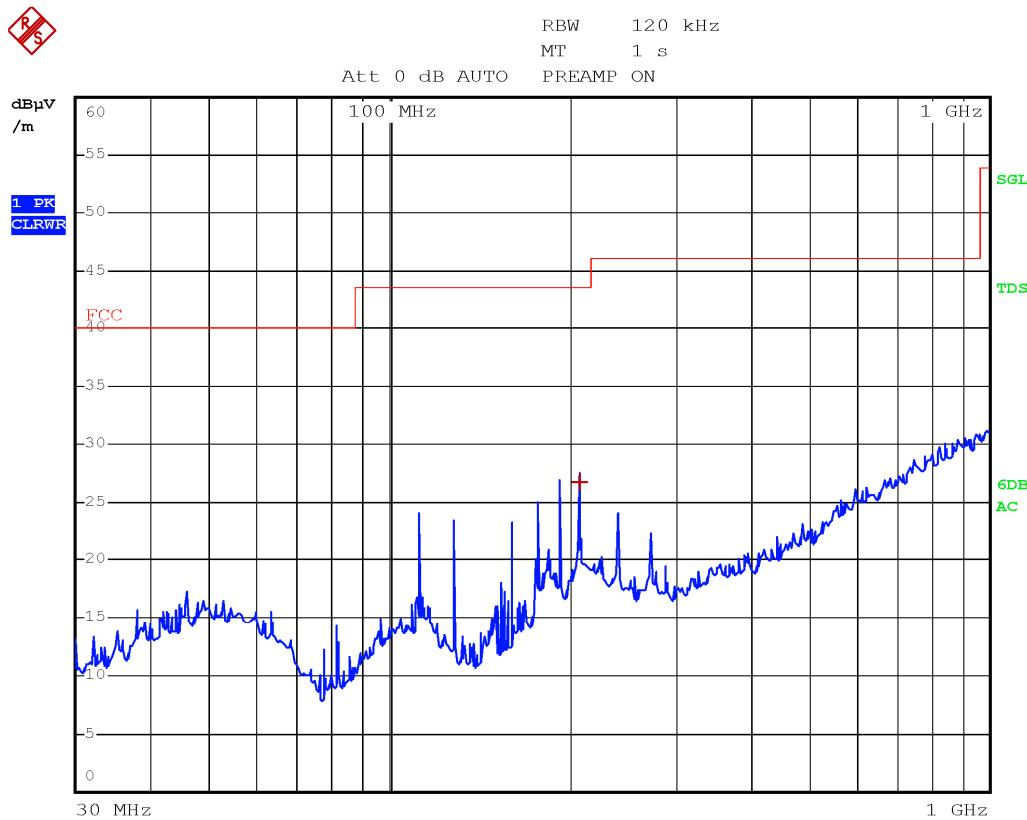
Appendix A: Test results

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Clause 15. 209 Field Strength of any emissions

Test data, continued



Antenna in horizontal polarization @ 3 m – EUT with 220 mm cable

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
208.4000	26.7	43.5	-16.8	QP



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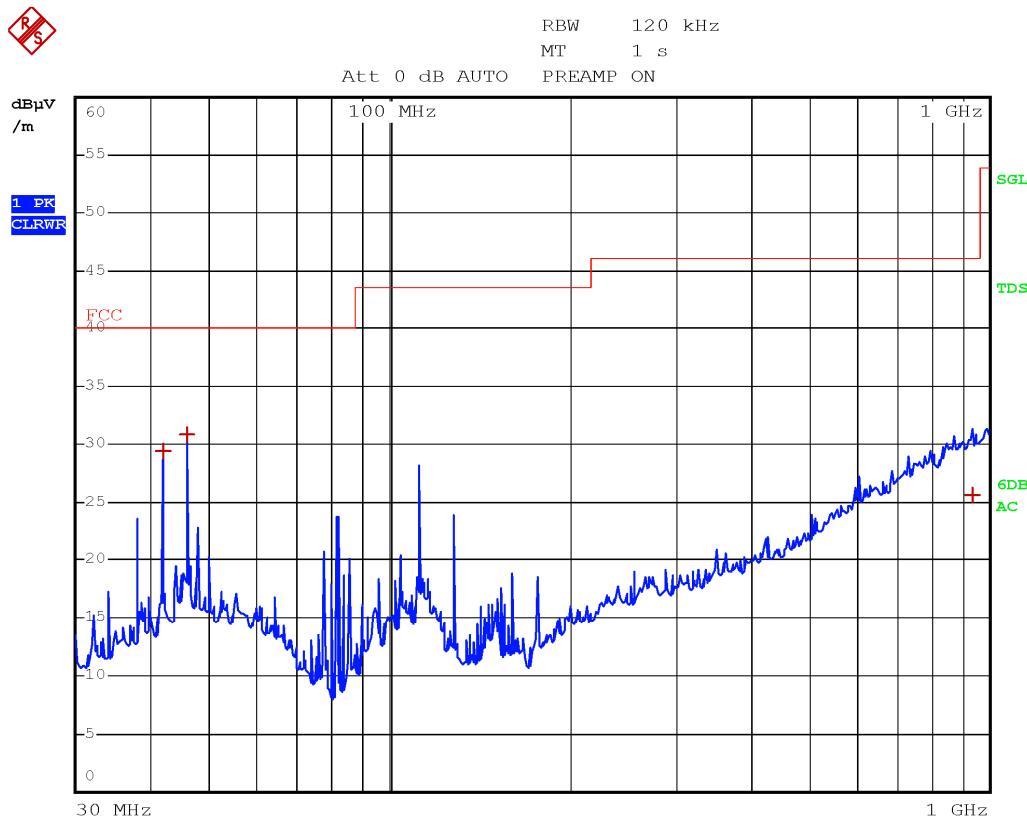
Appendix A: Test results

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Clause 15. 209 Field Strength of any emissions

Test data, continued



Antenna in vertical polarization @ 3 m – EUT with 220 mm cable

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
42.0000	29.4	40.0	-10.6	QP
46.0000	30.8	40.0	-9.2	QP
941.2000	25.5	46.0	-20.5	QP



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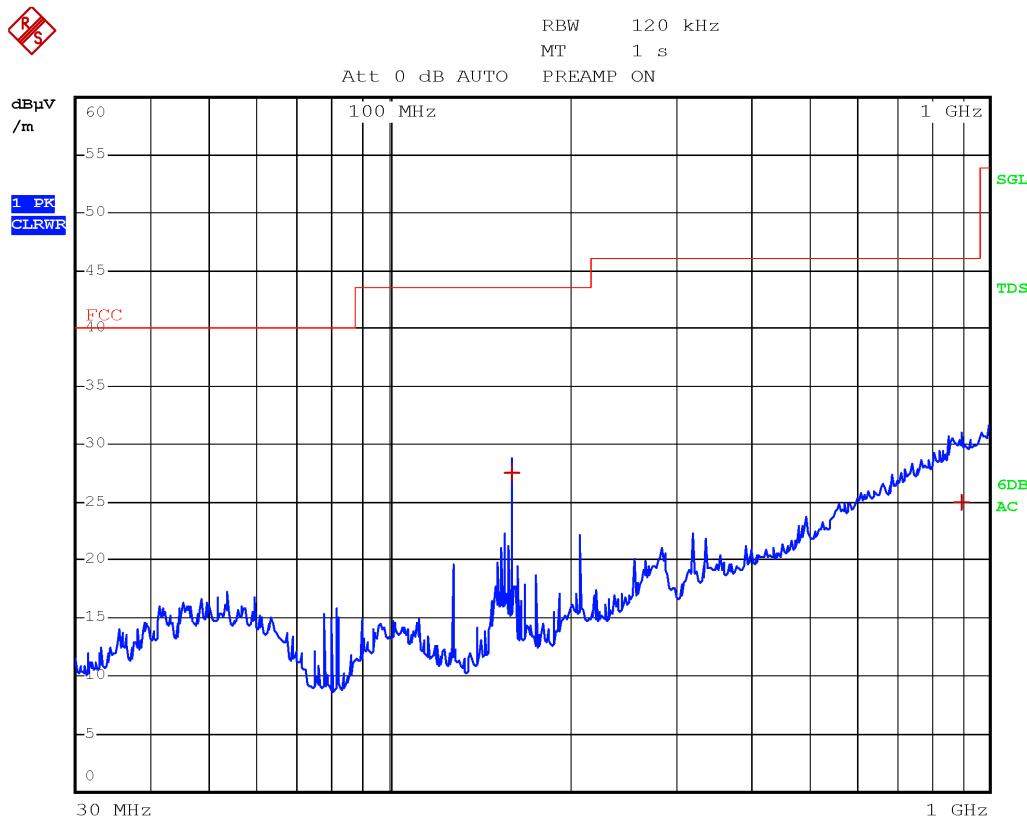
Appendix A: Test results

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Clause 15. 209 Field Strength of any emissions

Test data, continued

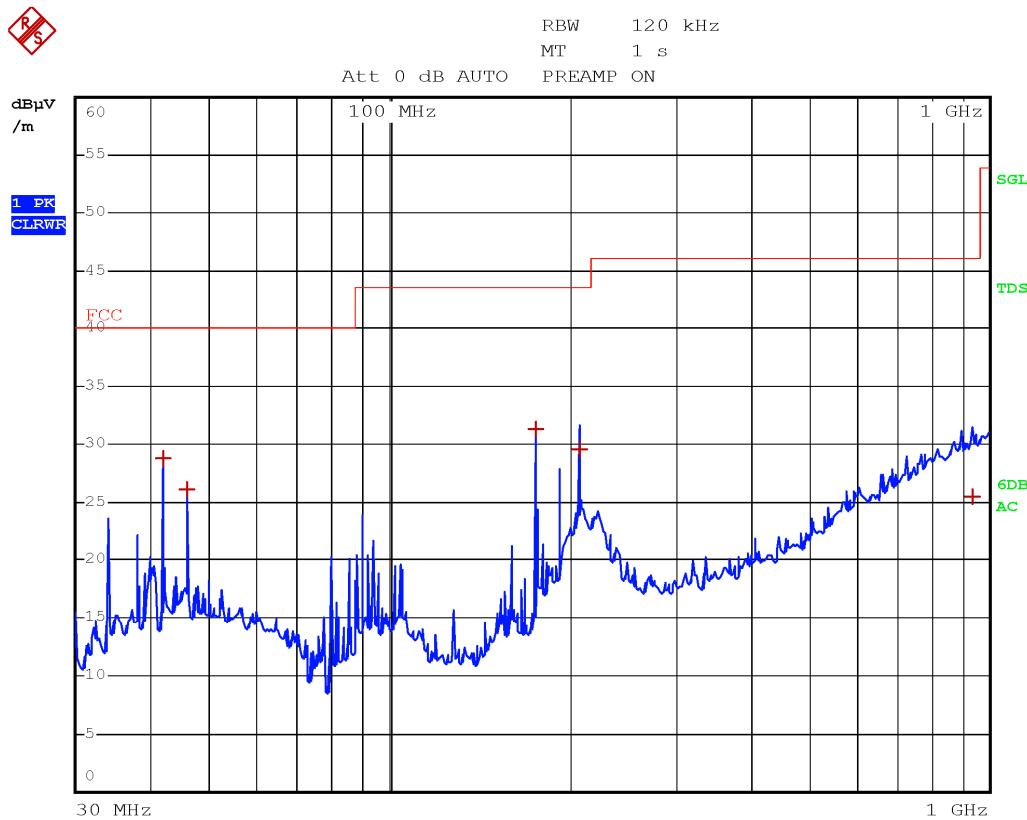


Antenna in horizontal polarization @ 3 m – EUT with 570 mm cable

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
160.0800	27.5	43.5	-16.0	QP
897.2400	25.0	46.0	-21.0	QP

Clause 15. 209 Field Strength of any emissions

Test data, continued



Antenna in vertical polarization @ 3 m – EUT with 570 mm cable

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
42.0000	28.7	40.0	-11.3	QP
46.0000	26.0	40.0	-14.0	QP
176.1200	31.3	43.5	-12.2	QP
208.2000	29.5	43.5	-14.0	QP
937.9200	25.4	46.0	-20.6	QP



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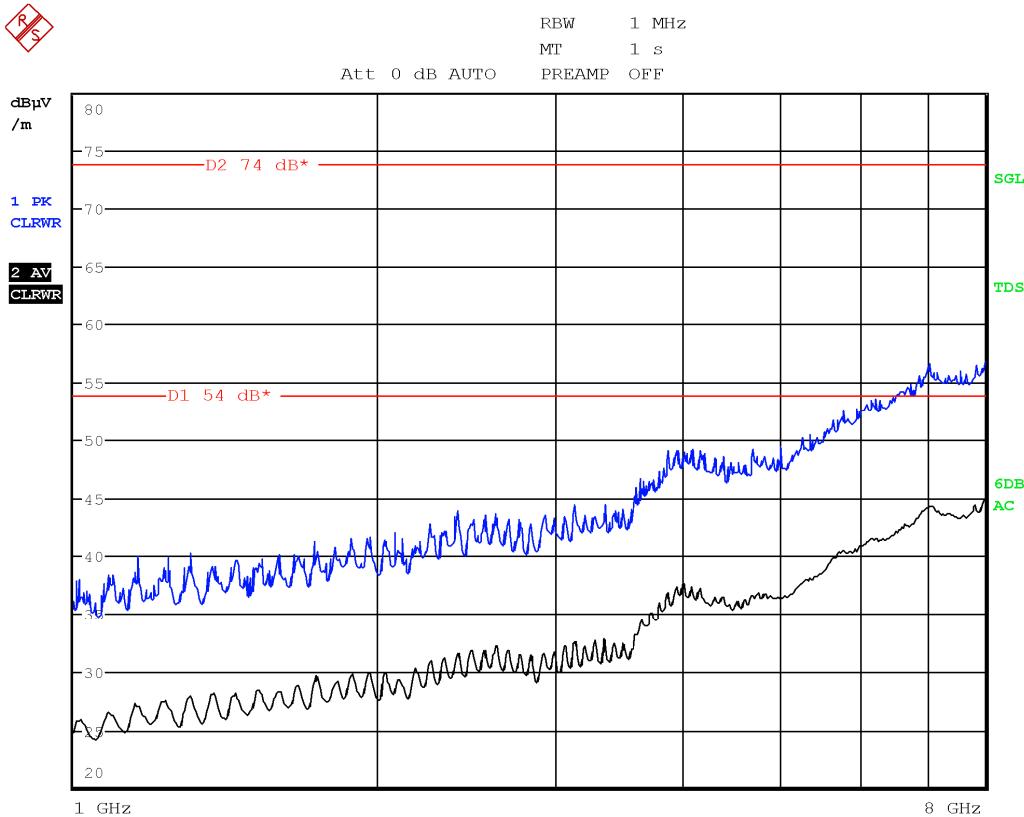
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Test data, continued



Antenna in horizontal polarization @ 3 m – EUT with 220 mm cable



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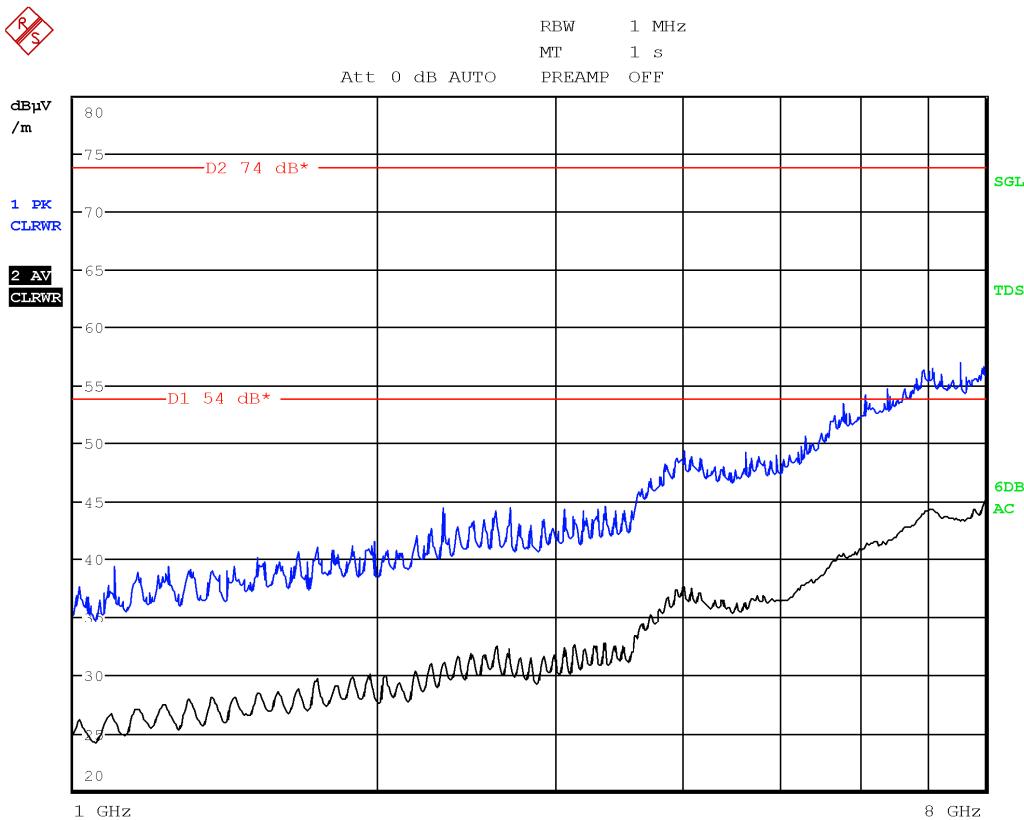
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Test data, continued



Antenna in vertical polarization @ 3 m – EUT with 220 mm cable



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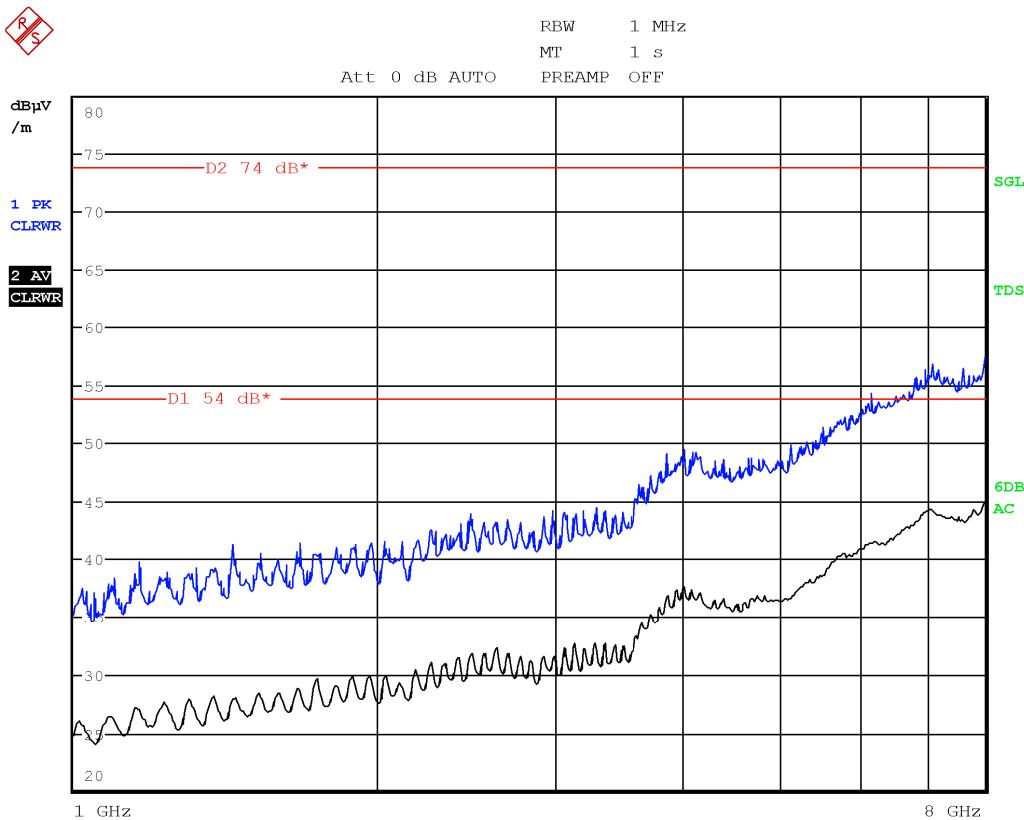
Appendix A: Test results

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Test data, continued



Antenna in horizontal polarization @ 3 m – EUT with 570 mm cable



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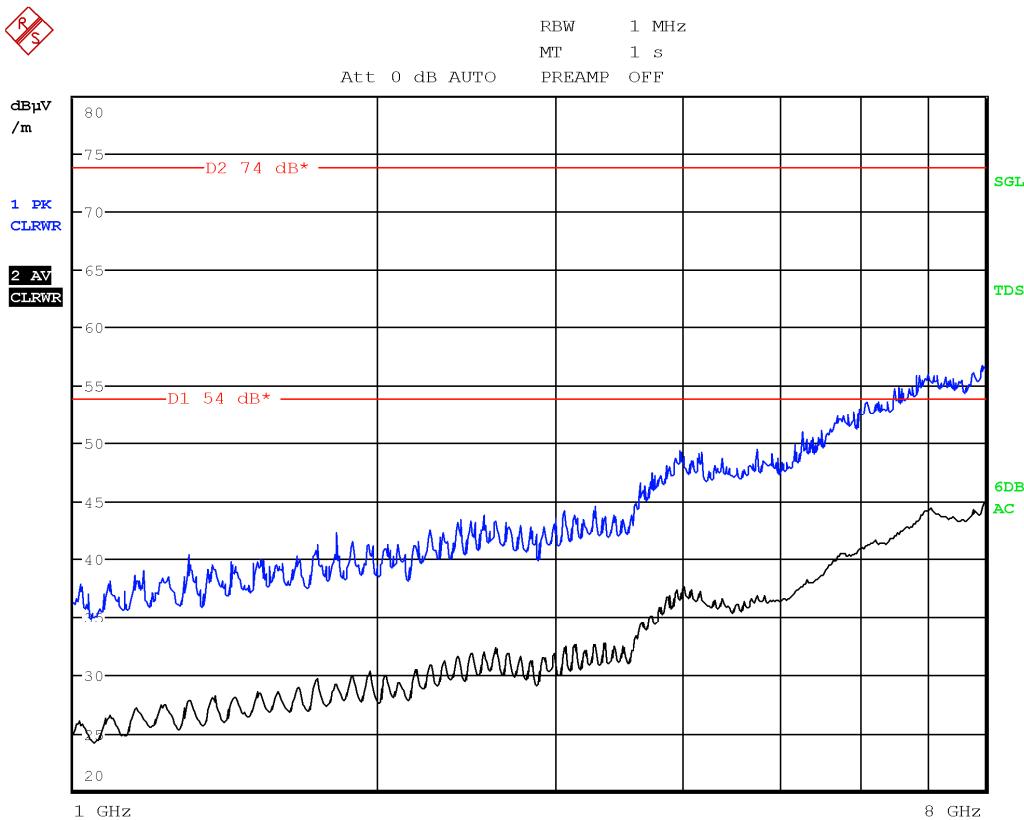
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Test data, continued



Antenna in vertical polarization @ 3 m – EUT with 570 mm cable



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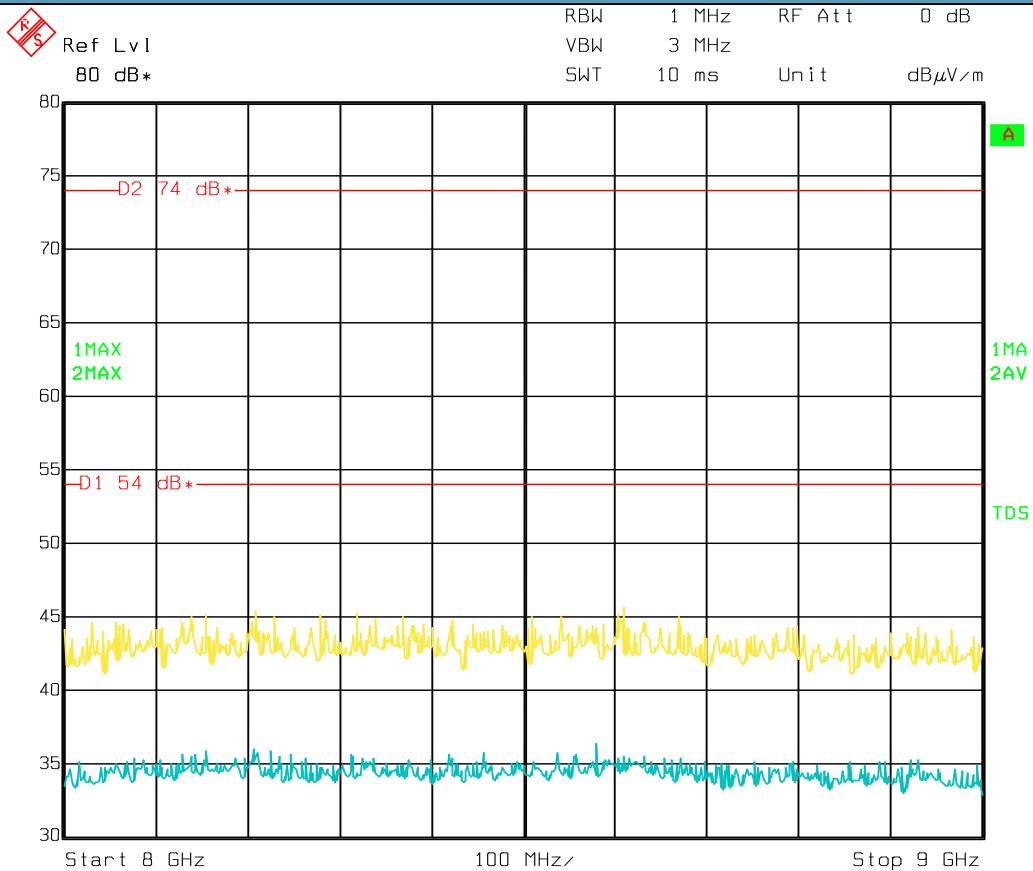
Appendix A: Test results

Report Number: 318873-2TRFFCC

Specification: FCC 15 subpart C

Clause 15. 209 Field Strength of any emissions

Test data, continued



Antenna in horizontal polarization @ 3 m – EUT with 220 mm cable



Nemko Spa Via del Carroccio, 4
20853 Biassono (Italy)

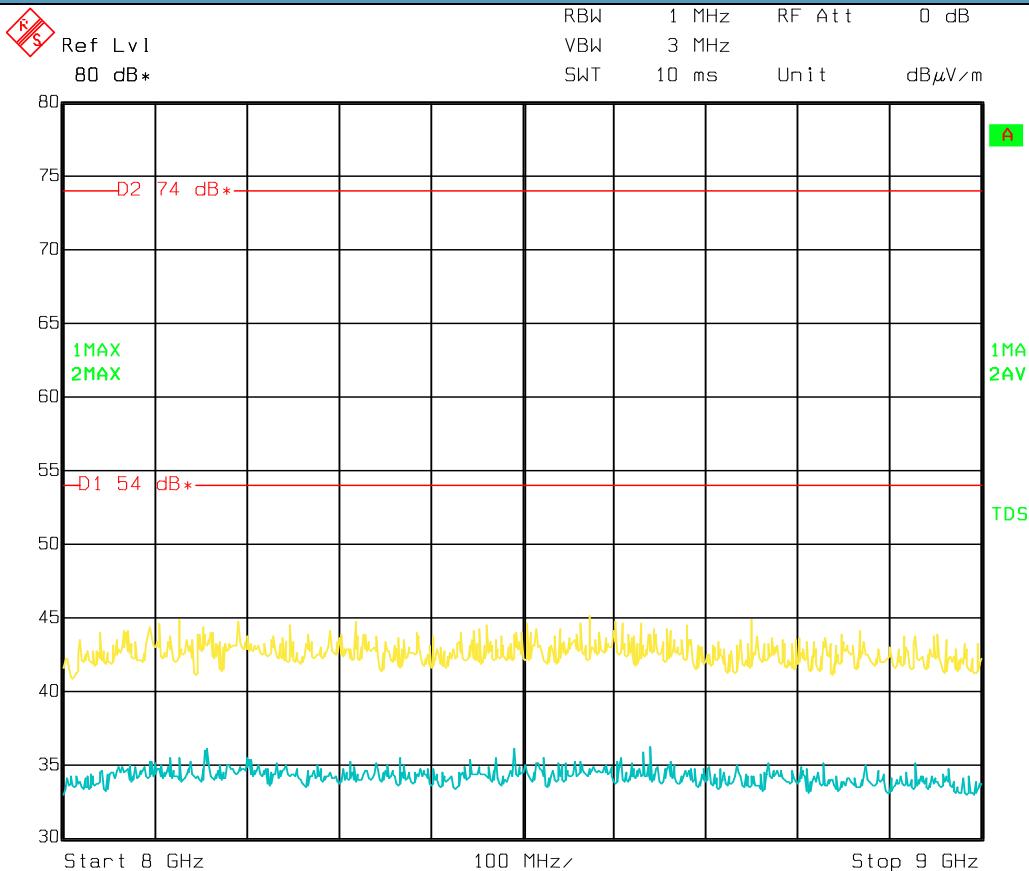
Appendix A: Test results

Report Number: 318873-2TRFFCC

Specification: FCC 15 subpart C

Clause 15. 209 Field Strength of any emissions

Test data, continued



Antenna in vertical polarization @ 3 m – EUT with 220 mm cable



Nemko Spa Via del Carroccio, 4
20853 Biassono (Italy)

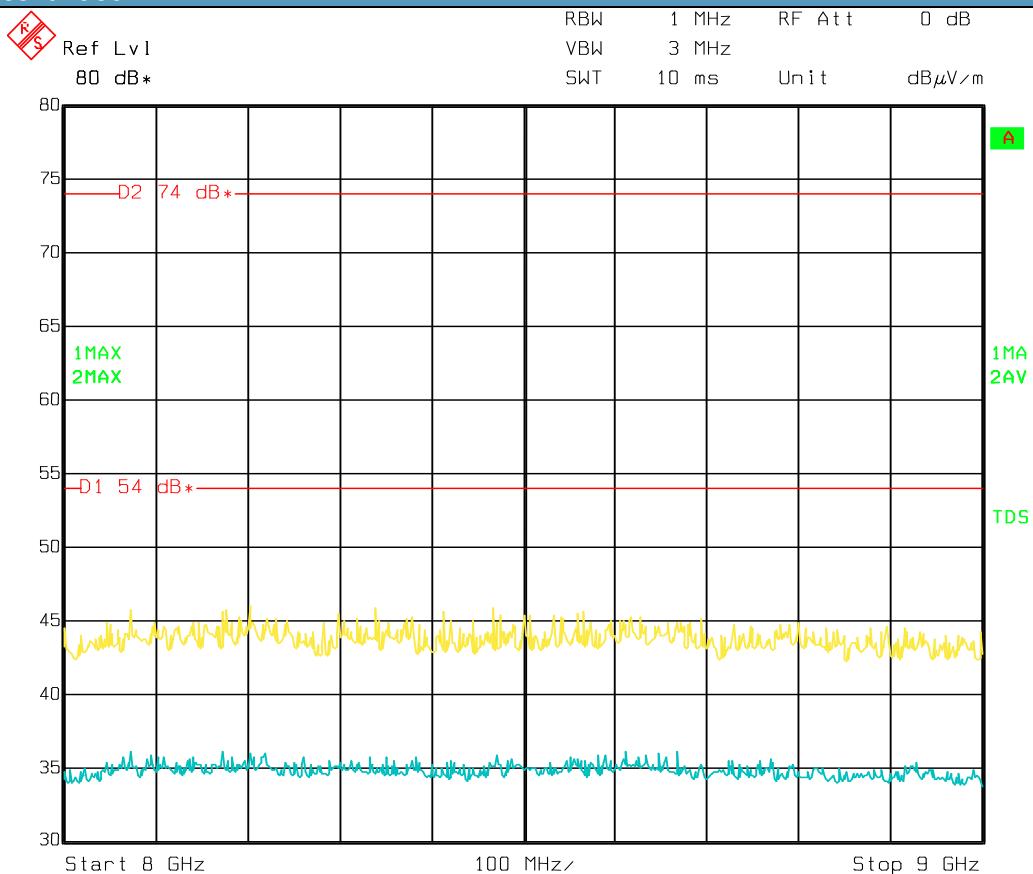
Appendix A: Test results

Report Number: 318873-2TRFFCC

Specification: FCC 15 subpart C

Clause 15. 209 Field Strength of any emissions

Test data, continued



Antenna in horizontal polarization @ 3 m – EUT with 570 mm cable



Nemko Spa Via del Carroccio, 4
20853 Biassono (Italy)

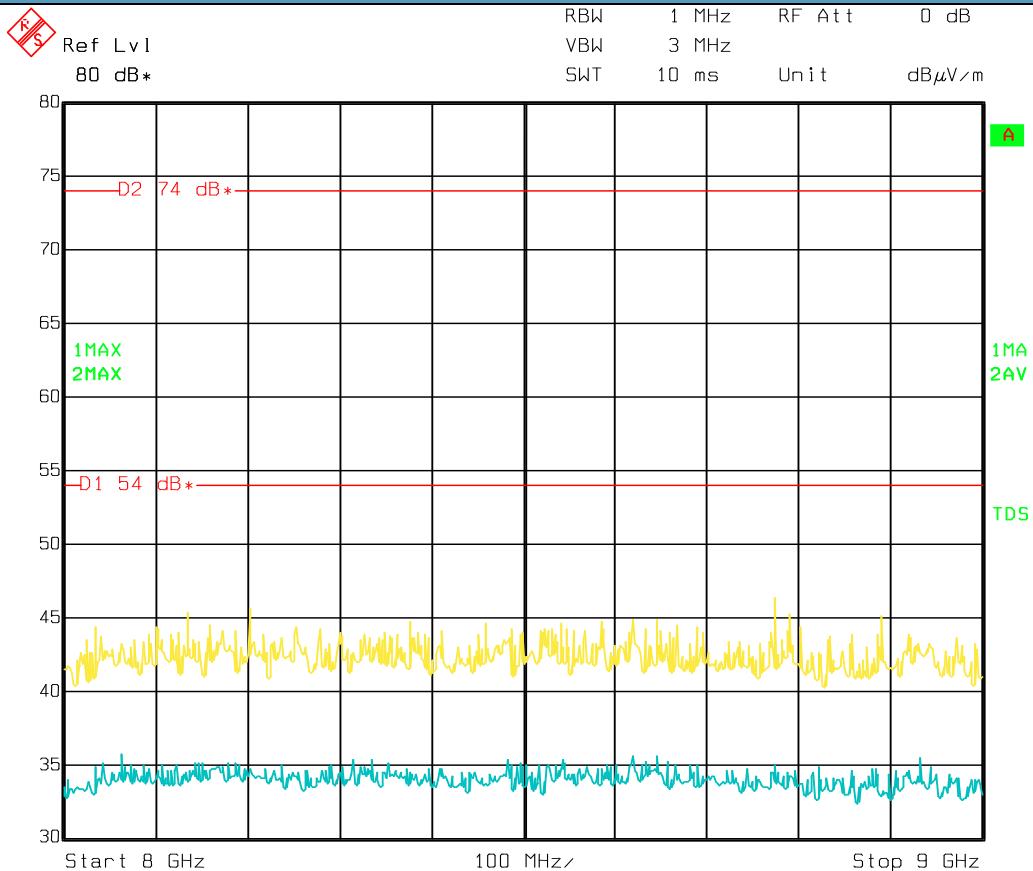
Appendix A: Test results

Report Number: 318873-2TRFFCC

Specification: FCC 15 subpart C

Clause 15. 209 Field Strength of any emissions

Test data, continued



Antenna in vertical polarization @ 3 m – EUT with 570 mm cable



Nemko Spa Via del Carroccio, 4
20853 Biassono (Italy)

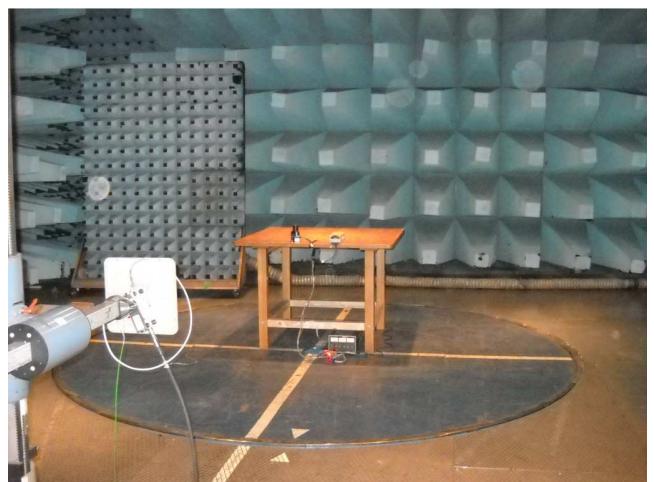
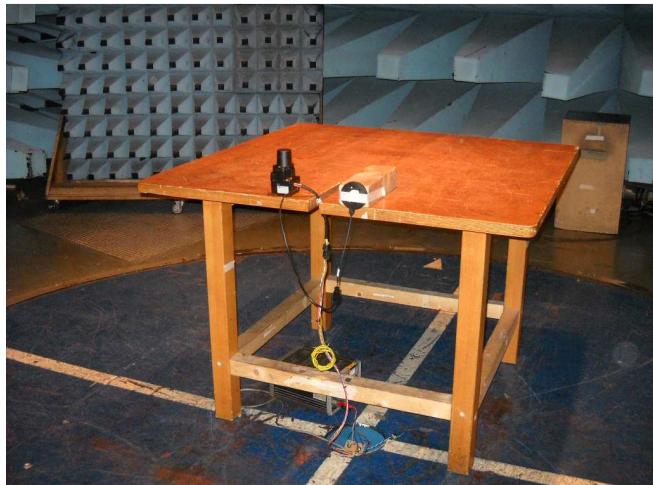
Appendix A: Test results

Report Number: 318873-2TRFFCC

Specification: FCC 15 subpart C

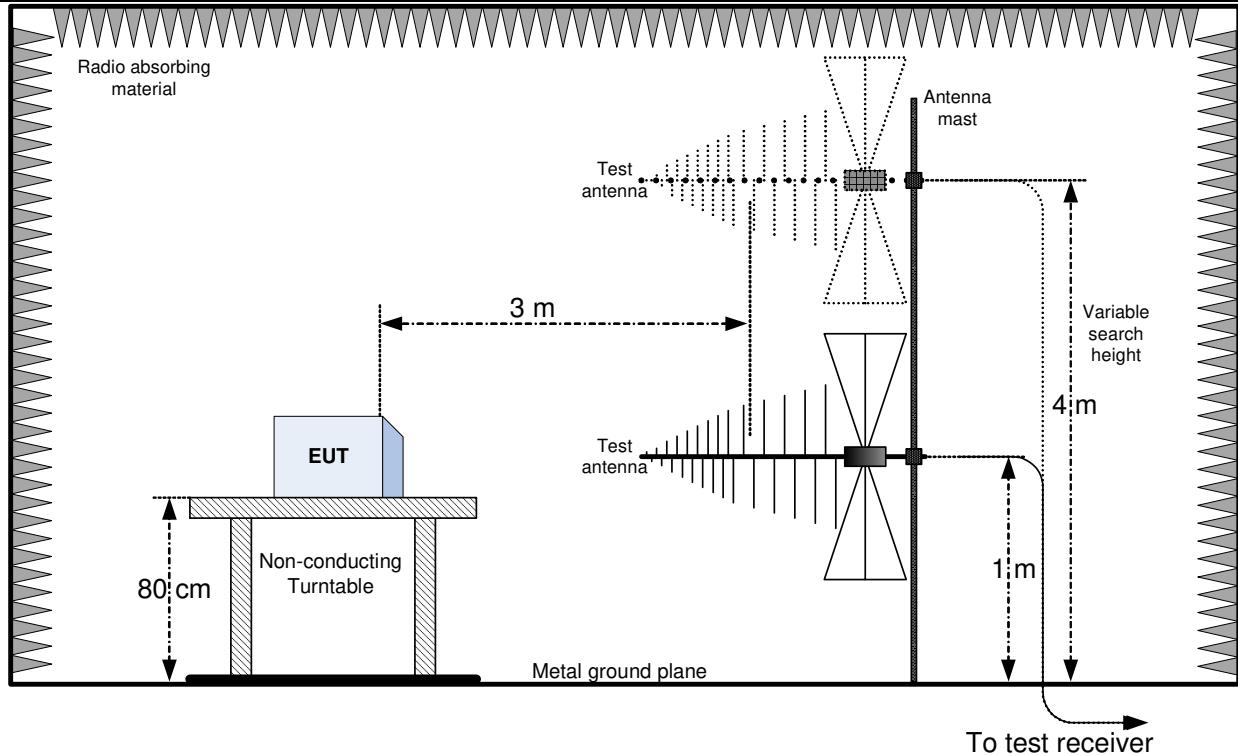
Clause 15. 209 Field Strength, continued

Set up photo

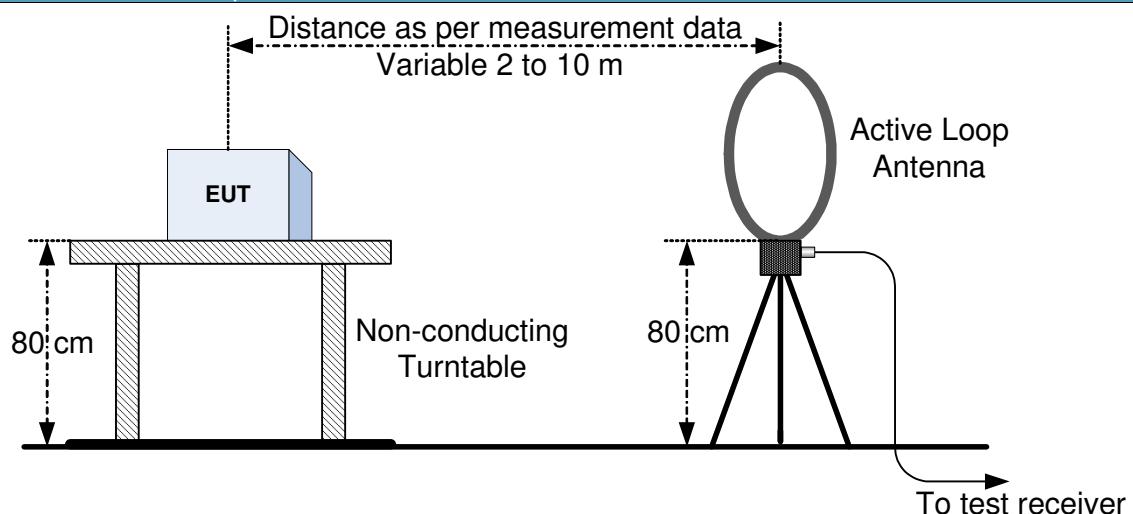


Appendix B: Block diagrams of test set-ups

Radiated emissions set-up above 30 MHz

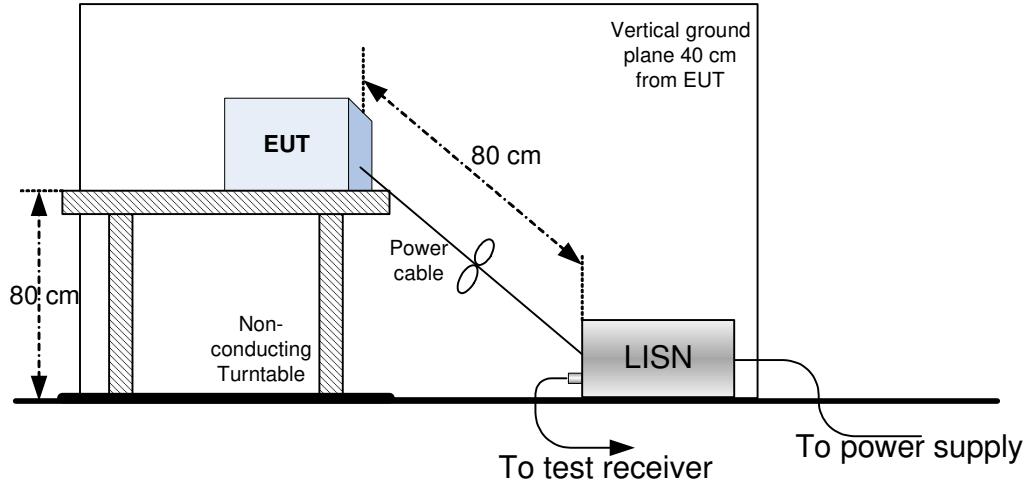


Radiated emissions set-up below 30 MHz

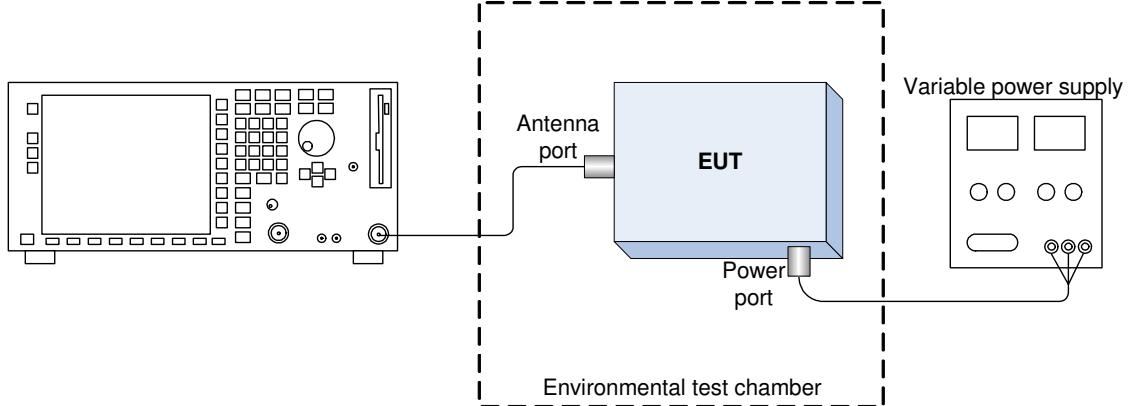


Block diagram, continued

Conducted emissions set-up



Frequency stability set-up





Nemko Spa Via del Carroccio, 4
20853 Biassono (Italy)

Appendix C: EUT photos

Report Number: 318873-2TRFFCC

Specification: FCC 15 subpart C

Appendix C: EUT photos

Set up photo

