

EMC test laboratory Royal Philips Drachten, Netherlands

| | | |
|----------------------------------|---|---------------------|
| Report : SM 9558 | Samples : 3 | Appliance : Trimmer |
| Date : October 18, 2019 | type nr. : BT3203,BT3206,BT3207,BT3208. | |
| Test engineer : H. Bodde | | |
| Tested sample: BT3206 | | |
| Remarks : NiMH version | | |
| Test purpose : Release | Rating : 100-240V / 2W /50-60Hz | |
| Manufacturer : Indonesia, Batam. | Sec: 4.3V / 70mA | |

Test equipment calibrated up to February, 2020

Summary of test results :

| Tested according to | Test result |
|---------------------|-------------|
| 2014/30/EU | PASS |

R F E m i s s i o n

| Test according to : | Result |
|---------------------|--------|
| EN 55011:2009+A1 | N.A. |
| CISPR 11:2009+A1 | |
| EN 55014-1:2017 | Pass |
| CISPR 14-1:2016 | |
| EN 55015:2013+A1 | N.A. |
| CISPR 15:2013+A1 | |

L F E m i s s i o n

| Test according to : | Result |
|-----------------------|--------|
| EN 61000-3-2:2014 | Pass |
| IEC 61000-3-2:2014 | |
| EN 61000-3-3:2013 | Pass |
| IEC 61000-3-3:2013+A1 | |

I m m u n i t y

| Test according to : | Result |
|---------------------|--------|
| EN 55014-2:2015 | Pass |
| CISPR 14-2:2015 | |
| EN 60601-1-2:2014 | N.A. |
| IEC 60601-1-2:2014 | |

Test conditions EMC-EMF laboratory:

| | |
|--------------|---------|
| Temperature: | 21.4 °C |
| Humidity: | 53.7 % |

FINAL TEST RESULT:

Fulfills EMC-requirements for CE-mark

Interference source :

Commutatormotor Loda,
type : LD180 FF 4025 P2, 1V2
exchangeable with :
Commutatormotor Jiaai,
type : JP20 155 4025 W53 A1 1V2

Interference suppression :

<M> Varistor on commutator.
type: Disk.

Circuitdiagram :

see page 14.

Remark :

This report is based on testdata from report SM9454.

Freq: Microprocessor :

n.a.

Data :

Data 1,2&3:Tested with I4 Salom A00390
Data 4,5&6:Tested with I4 Phihong A00390

Appliance tested with Powerplug :

- (14) A00390 / SSW2564 (Salom) see SM8882
- (14) A00390 / PSM00x (Phihong) see SM8901
exchangeable with :
- (15) A00390 / SSW3077 (Salom) see SM9457
- (16) A00380 / SSW3238 (Salom) see SM9457
(most unfavorable values noted in this report)

PHILIPS
EMC testlab.
Box 20100
9200 CA Drachten
Netherlands



Measurements are done according required standards and norms in all aspects such as test setup, placement (distance) of EUT, cord length, test voltage etc.

Test Engineer : H. Bodde

Date : October 18, 2019

Signed for approval : J. Hoekstra

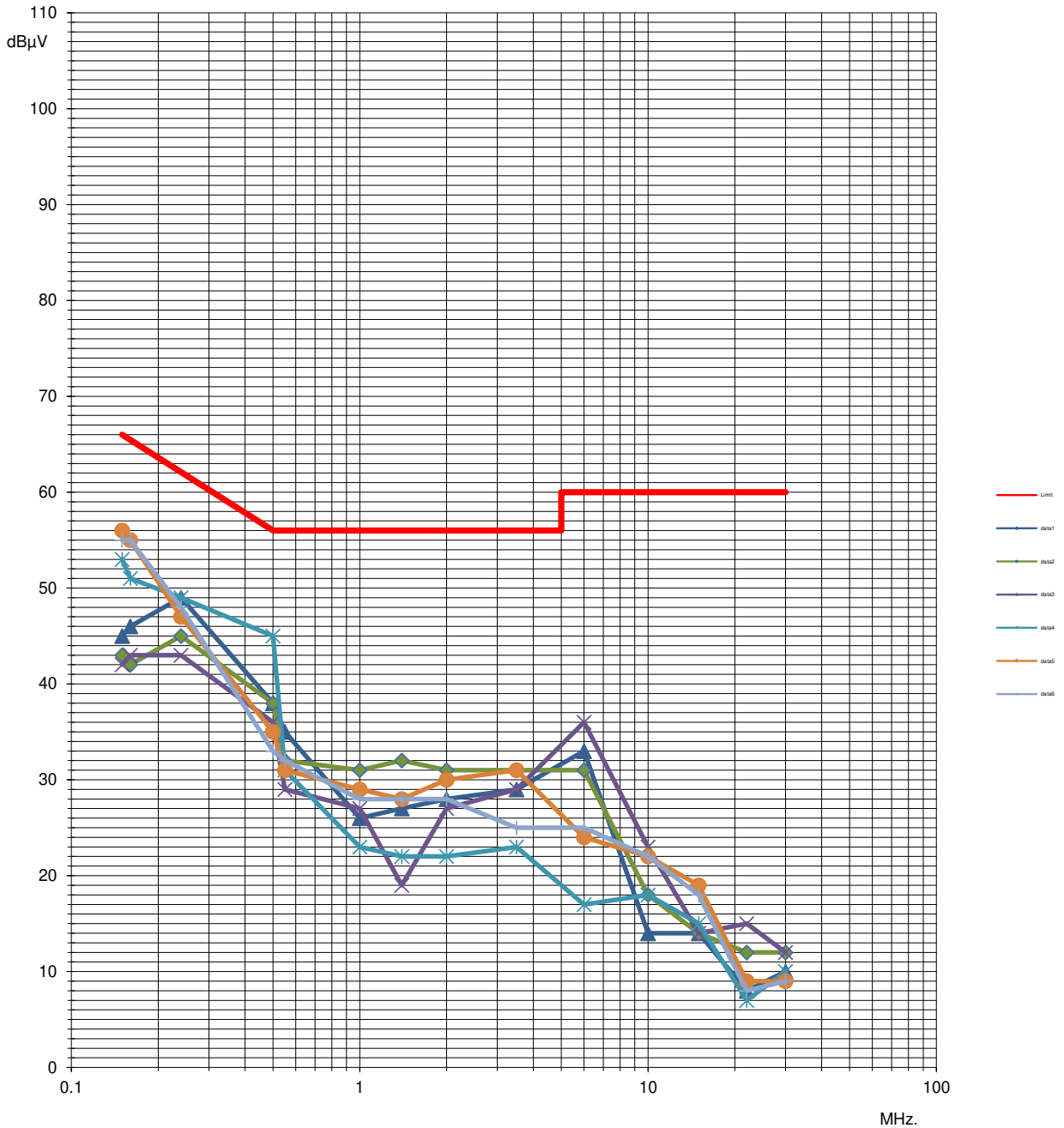
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| Date : October 18, 2019 | type nr. : BT3203,BT3206,BT3207,BT3208. | |
| Test engineer : H. Bodde | | |
| Tested sample: BT3206 | | |
| Remarks : NiMH version | | |
| Test purpose : Release | | Rating : 100-240V / 2W /50-60Hz |
| Manufacturer : Indonesia, Batam. | | Sec: 4.3V / 70mA |

Voltage measurement 0.1485-30 MHz. acc. to CISPR-14 Q-PEAK detector / Q-PEAK limit

Test equipment : Receiver TESEQ SMR4503

LISN ROHDE&SCHWARZ ENV 216



| | |
|-------------------|-------------|
| TESTRESULT | PASS |
|-------------------|-------------|

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Voltage measurement 0.1485-30 MHz. acc. to CISPR-14 Q-PEAK detector / Q-PEAK limit

Test equipment : Receiver TESEQ SMR4503 LISN ROHDE&SCHWARZ ENV 216

| Frequency (MHz.) | Emission of appliance nr.: (dB μ V) | | | | | | | | | | 80%/80% calculation | | | | | |
|-------------------|---|----|----|-----|-----|-----|---------|---------|---------|-------------|---------------------|-------|-----|-------|-------|------|
| | 1 | 2 | 3 | --- | --- | --- | Margin1 | Margin2 | Margin3 | | | X | S | X+K*S | Limit | |
| 0.1500 | 45 | 43 | 42 | | | | | | | | | | | | 66 | |
| 0.1600 | 46 | 42 | 43 | | | | | | | | | | | | 65.5 | |
| 0.2400 | 49 | 45 | 43 | | | | -13.1 | -17.1 | -19.1 | | | -16 | 3.1 | -10.1 | 62.1 | |
| 0.5000 | 38 | 38 | 36 | | | | | | | | | | | | 56 | |
| 0.5500 | 35 | 32 | 29 | | | | | | | | | | | | 56 | |
| 1.0000 | 26 | 31 | 27 | | | | | | | | | | | | 56 | |
| 1.4000 | 27 | 32 | 19 | | | | | | | | | | | | 56 | |
| 2.0000 | 28 | 31 | 27 | | | | | | | | | | | | 56 | |
| 3.5000 | 29 | 31 | 29 | | | | -18.0 | -18.0 | -20.0 | | | -19 | 1.2 | -16.3 | 56 | |
| 6.0000 | 33 | 31 | 36 | | | | | | | | | | | | 60 | |
| 10.0000 | 14 | 18 | 23 | | | | | | | | | | | | 60 | |
| 15.0000 | 14 | 14 | 14 | | | | | | | | | | | | 60 | |
| 22.0000 | 8 | 12 | 15 | | | | | | | | | | | | 60 | |
| 30.0000 | 10 | 12 | 12 | | | | -27.0 | -29.0 | -24.0 | | | -27 | 2.5 | -21.6 | 60 | |
| | | | | | | | | | | | | | | | | |
| | | | | 4 | 5 | 6 | | | | | | | | | | |
| 0.1500 | | | | 53 | 56 | 55 | | | | | | | | | 66 | |
| 0.1600 | | | | 51 | 55 | 55 | | | | | | | | | 65.5 | |
| 0.2400 | | | | 49 | 47 | 48 | | | | -13.0 | -10.0 | -10.5 | -11 | 1.6 | -7.9 | 62.1 |
| 0.5000 | | | | 45 | 35 | 33 | | | | | | | | | 56 | |
| 0.5500 | | | | 31 | 31 | 32 | | | | | | | | | 56 | |
| 1.0000 | | | | 23 | 29 | 28 | | | | | | | | | 56 | |
| 1.4000 | | | | 22 | 28 | 28 | | | | | | | | | 56 | |
| 2.0000 | | | | 22 | 30 | 28 | | | | | | | | | 56 | |
| 3.5000 | | | | 23 | 31 | 25 | | | | -11.0 | -21.0 | -23.0 | -18 | 6.4 | -5.2 | 56 |
| 6.0000 | | | | 17 | 24 | 25 | | | | | | | | | 60 | |
| 10.0000 | | | | 18 | 22 | 22 | | | | | | | | | 60 | |
| 15.0000 | | | | 15 | 19 | 18 | | | | | | | | | 60 | |
| 22.0000 | | | | 7 | 9 | 8 | | | | | | | | | 60 | |
| 30.0000 | | | | 10 | 9 | 9 | | | | -42.0 | -36.0 | -35.0 | -38 | 3.8 | -29.9 | 60 |
| | | | | | | | | | | | | | | | | |
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| TESTRESULT | | | | | | | | | | PASS | | | | | | |

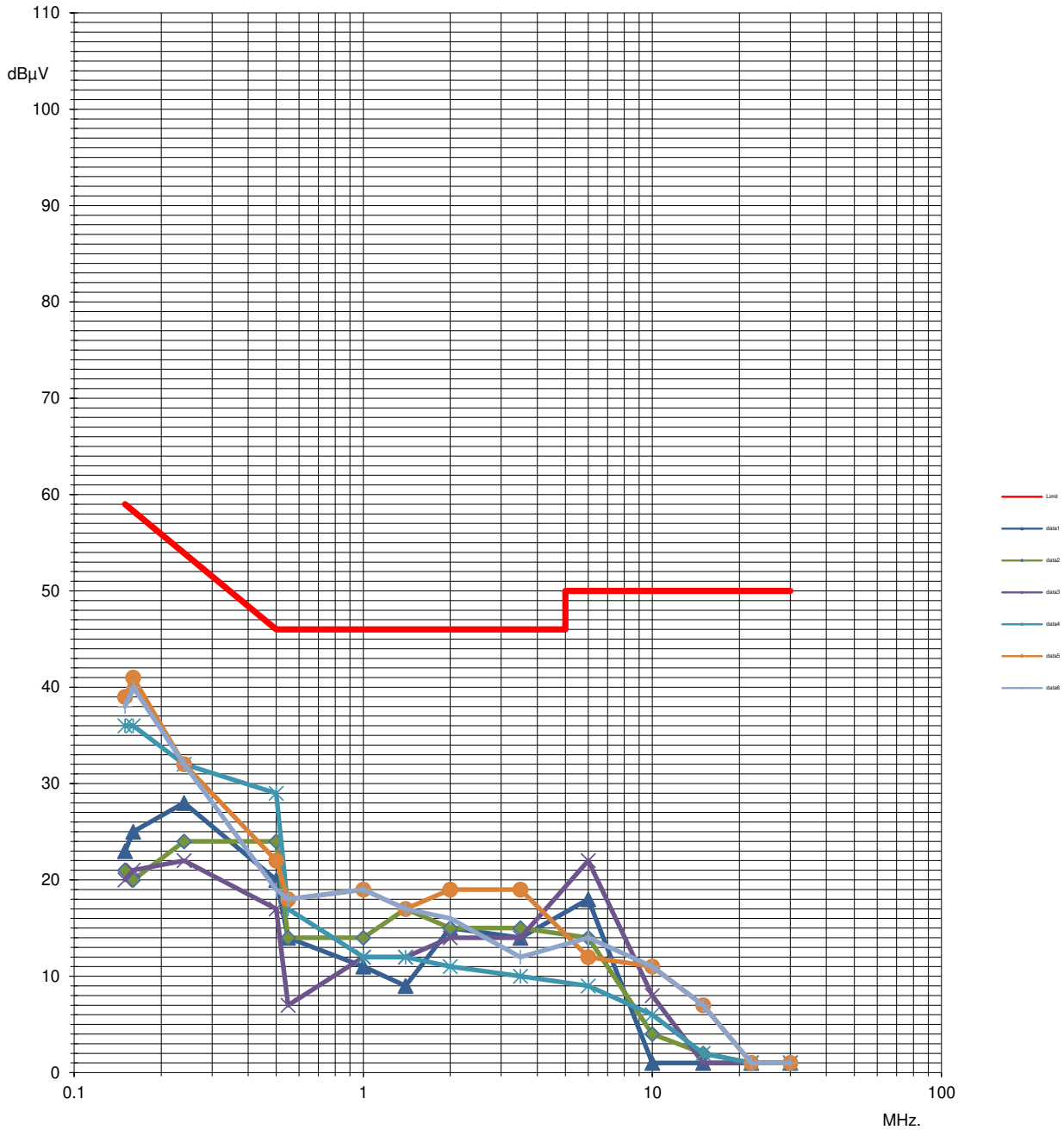
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| Tested sample: BT3206 | | |
| Remarks : NiMH version | | |
| Test purpose : Release | | Rating : 100-240V / 2W /50-60Hz |
| Manufacturer : Indonesia, Batam. | | Sec: 4.3V / 70mA |

Voltage measurement 0.1485-30 MHz. acc. to CISPR-14 AVERAGE detector / AVERAGE limit

Test equipment : Receiver TESEQ SMR4503

LISN ROHDE&SCHWARZ ENV 216



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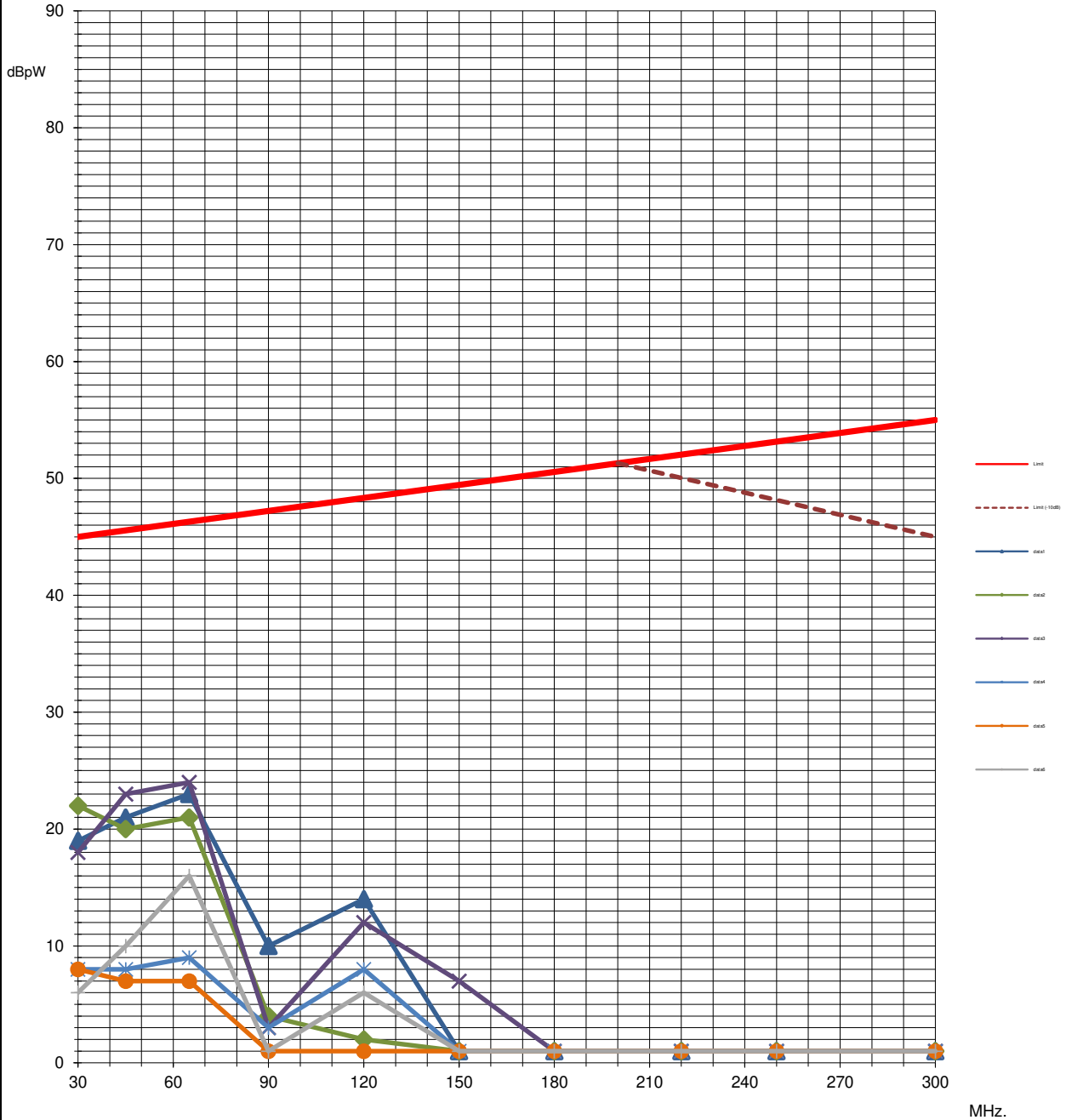
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| Test engineer : H. Bodde | | |
| Tested sample: BT3206 | | |
| Remarks : NiMH version | | |
| Test purpose : Release | | Rating : 100-240V / 2W /50-60Hz |
| Manufacturer : Indonesia, Batam. | | Sec: 4.3V / 70mA |

Power measurement 30-300 MHz. acc. to CISPR-14 Q-PEAK detector / Q-PEAK limit

Test equipment : Receiver TESEQ SMR4503

Clamp Lüthi MdS 21



| | |
|-------------------|-------------|
| TESTRESULT | PASS |
|-------------------|-------------|

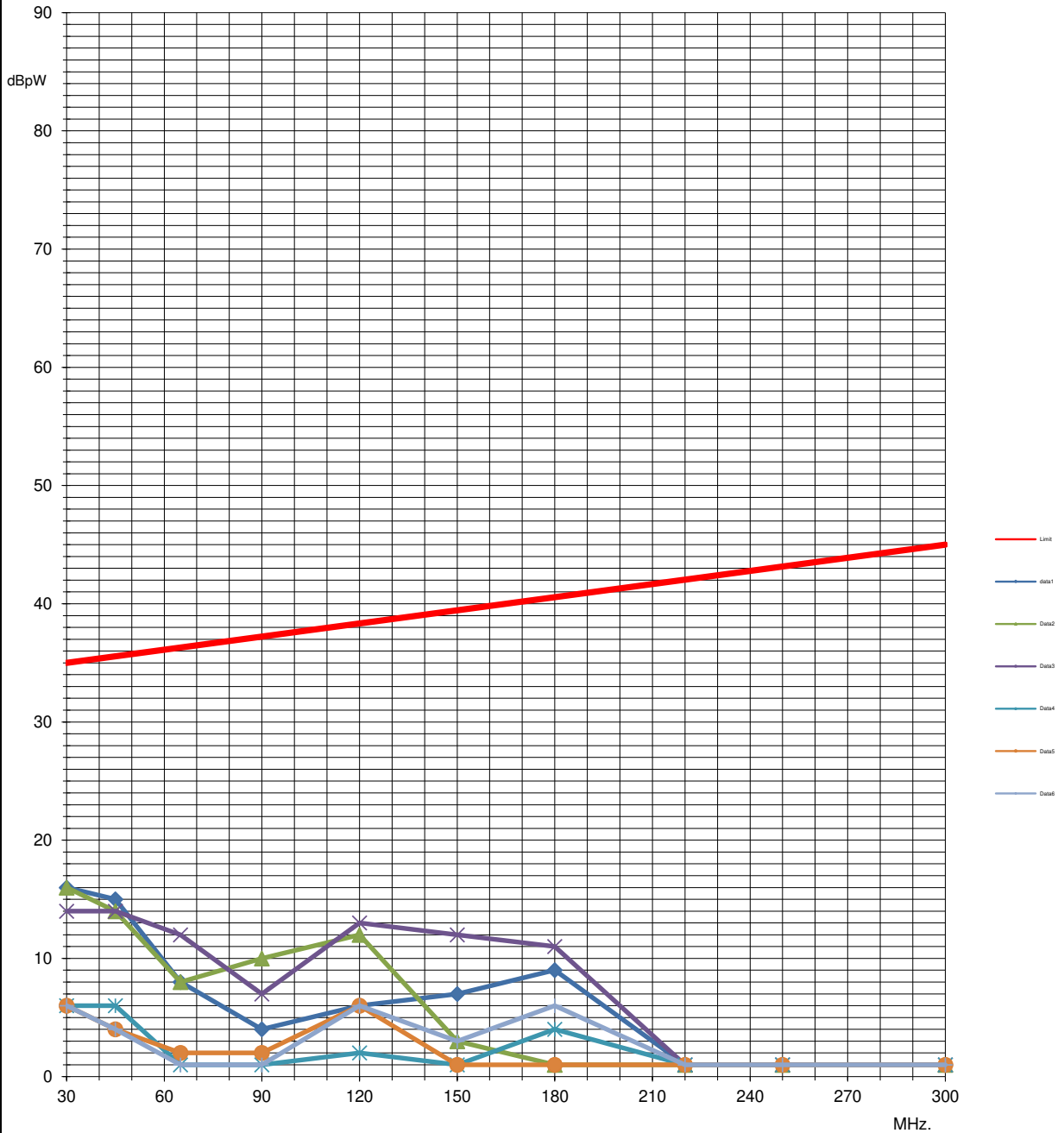
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| Test engineer : H. Bodde | | |
| Tested sample: BT3206 | | |
| Remarks : NiMH version | | |
| Test purpose : Release | | Rating : 100-240V / 2W /50-60Hz |
| Manufacturer : Indonesia, Batam. | | Sec: 4.3V / 70mA |

Power measurement 30-300 MHz. acc. to CISPR-14 AVERAGE detector / AVERAGE limit

Test equipment : Receiver TESEQ SMR4503

Clamp Lüthi MdS 21



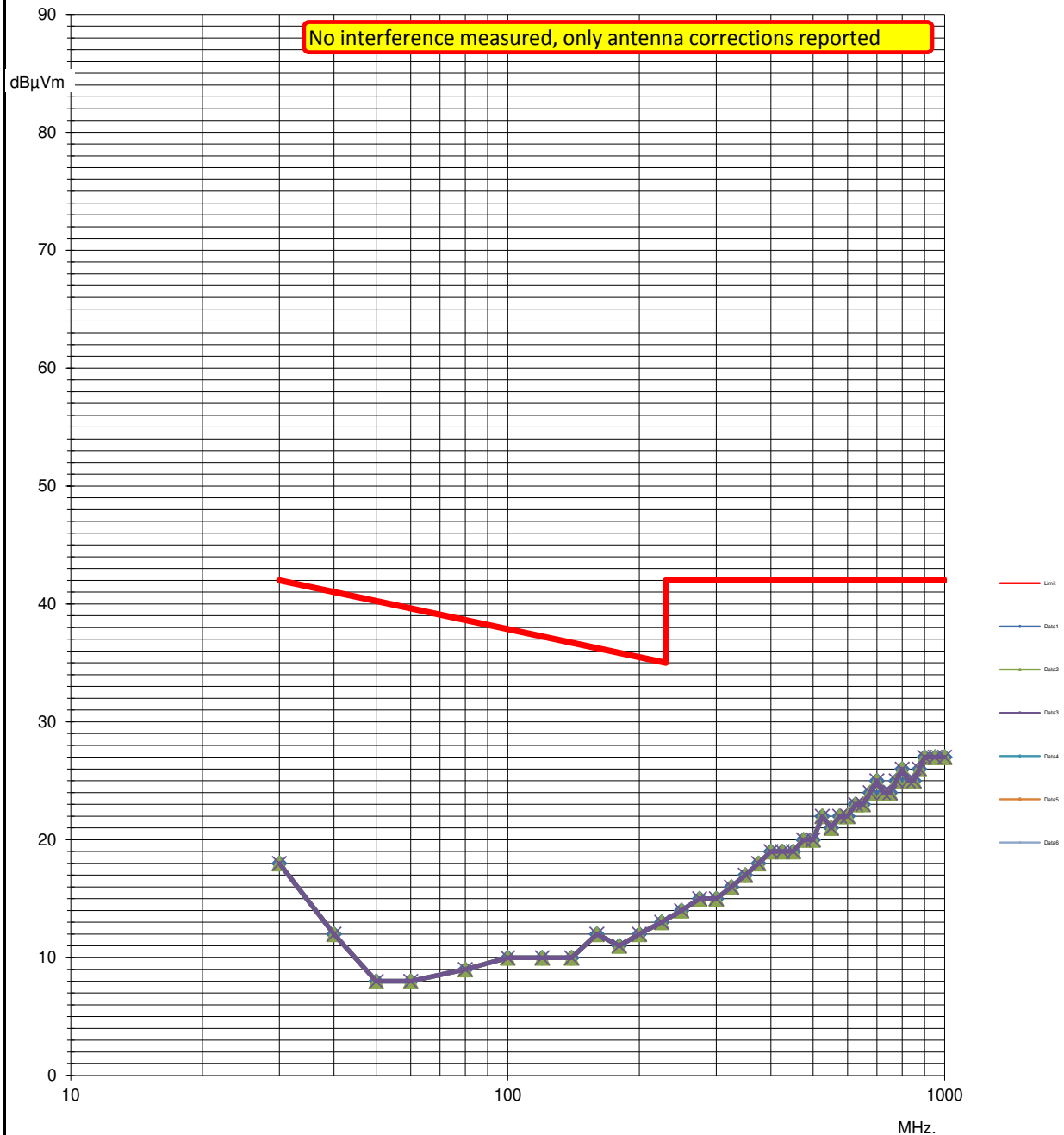
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| TESTRESULT | PASS |
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| Test engineer : H. Bodde | | |
| Tested sample: BT3206 | | |
| Remarks : Tested with Loda motor | | |
| Test purpose : Release | Rating : 100-240V / 2W /50-60Hz | |
| Manufacturer : Indonesia, Batam. | Sec: 4.3V / 70mA | |

Fieldstrength measurement (3M) 30-1000 MHz. acc. to CISPR-14 Q-PEAK detector

Test equipment : Receiver TESEQ SMR4503, Antenna 3142E ETS-Lindgren, C.F.A.R. RAINFORD



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| Test engineer : H. Bodde | | |
| Tested sample: BT3206 | | |
| Remarks : Tested with Loda motor | | |
| Test purpose : Release | | Rating : 100-240V / 2W /50-60Hz |
| Manufacturer : Indonesia, Batam. | | Sec: 4.3V / 70mA |

Fieldstrength measurement (3M) 30-1000 MHz. acc. to CISPR-14 Q-PEAK detector

Test equipment : Receiver TESEQ SMR4503, Antenna 3142E ETS-Lindgren, C.F.A.R. RAINFORD

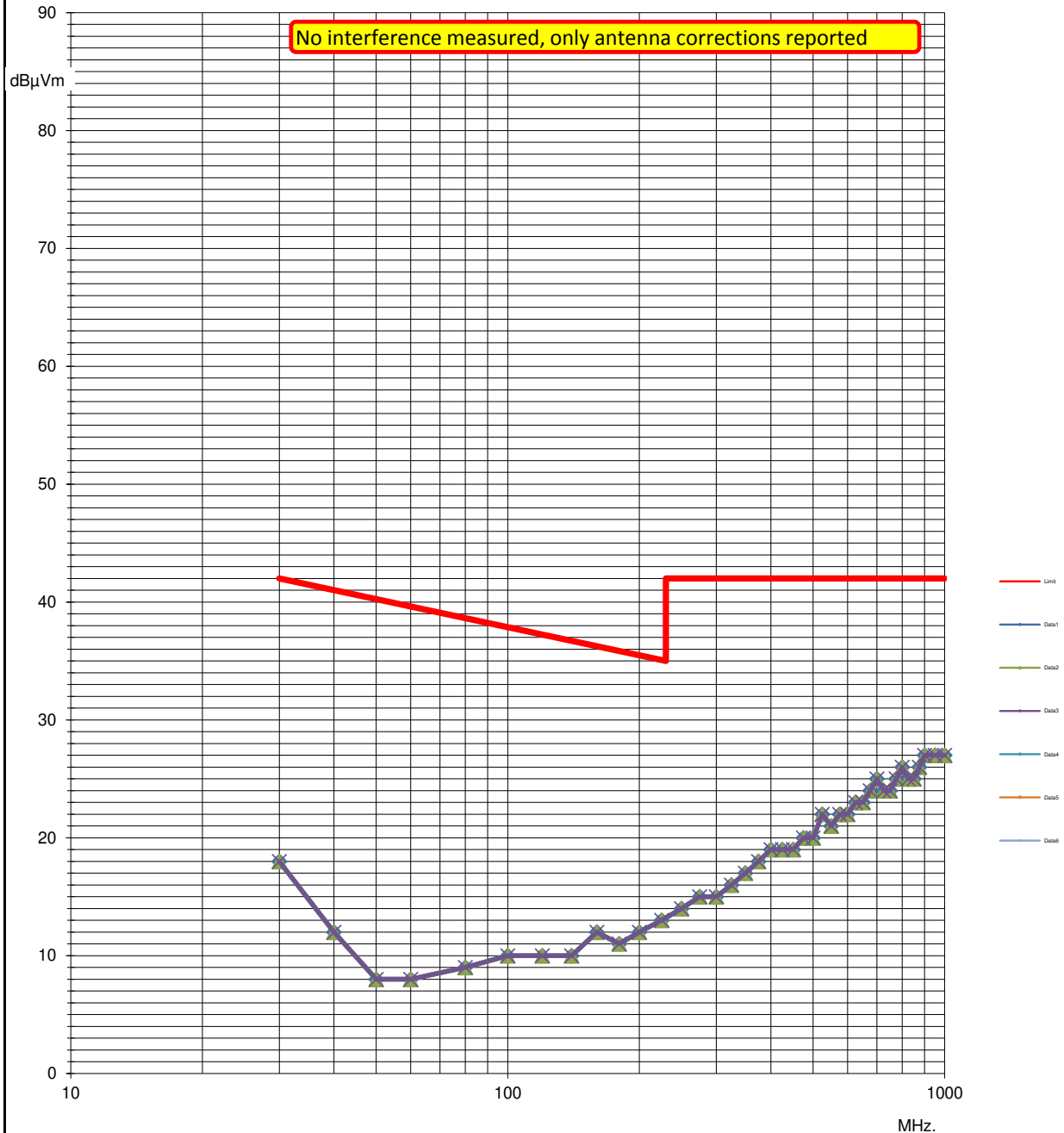
| Frequency (MHz.) | Emission of appliance nr.: (dBµVm) | | | | | | | | | | 80%/80% calculation | | | | |
|---|------------------------------------|----|----|-----|-----|-----|---------|---------|---------|-------------|---------------------|-----|---|-------|-------|
| | 1 | 2 | 3 | --- | --- | --- | Margin1 | Margin2 | Margin3 | | | X | S | X+K*S | Limit |
| 30.0000 | 18 | 18 | 18 | | | | | | | | | | | | 42 |
| 40.0000 | 12 | 12 | 12 | | | | | | | | | | | | 41 |
| 50.0000 | 8 | 8 | 8 | | | | | | | | | | | | 40.2 |
| 60.0000 | 8 | 8 | 8 | | | | | | | | | | | | 39.6 |
| 80.0000 | 9 | 9 | 9 | | | | | | | | | | | | 38.6 |
| 100.0000 | 10 | 10 | 10 | | | | | | | | | | | | 37.9 |
| 120.0000 | 10 | 10 | 10 | | | | | | | | | | | | 37.2 |
| 140.0000 | 10 | 10 | 10 | | | | | | | | | | | | 36.7 |
| 160.0000 | 12 | 12 | 12 | | | | | | | | | | | | 36.2 |
| 180.0000 | 11 | 11 | 11 | | | | | | | | | | | | 35.8 |
| 200.0000 | 12 | 12 | 12 | | | | | | | | | | | | 35.5 |
| 225.0000 | 13 | 13 | 13 | | | | -22.1 | -22.1 | -22.1 | | | -22 | 0 | -22.1 | 35.1 |
| 250.0000 | 14 | 14 | 14 | | | | | | | | | | | | 42 |
| 275.0000 | 15 | 15 | 15 | | | | | | | | | | | | 42 |
| 300.0000 | 15 | 15 | 15 | | | | | | | | | | | | 42 |
| 325.0000 | 16 | 16 | 16 | | | | | | | | | | | | 42 |
| 350.0000 | 17 | 17 | 17 | | | | | | | | | | | | 42 |
| 375.0000 | 18 | 18 | 18 | | | | | | | | | | | | 42 |
| 400.0000 | 19 | 19 | 19 | | | | | | | | | | | | 42 |
| 425.0000 | 19 | 19 | 19 | | | | | | | | | | | | 42 |
| 450.0000 | 19 | 19 | 19 | | | | | | | | | | | | 42 |
| 475.0000 | 20 | 20 | 20 | | | | -22.0 | -22.0 | -22.0 | | | -22 | 0 | -22 | 42 |
| 500.0000 | 20 | 20 | 20 | | | | | | | | | | | | 42 |
| 525.0000 | 22 | 22 | 22 | | | | | | | | | | | | 42 |
| 550.0000 | 21 | 21 | 21 | | | | | | | | | | | | 42 |
| 575.0000 | 22 | 22 | 22 | | | | | | | | | | | | 42 |
| 600.0000 | 22 | 22 | 22 | | | | | | | | | | | | 42 |
| 625.0000 | 23 | 23 | 23 | | | | | | | | | | | | 42 |
| 650.0000 | 23 | 23 | 23 | | | | | | | | | | | | 42 |
| 675.0000 | 24 | 24 | 24 | | | | | | | | | | | | 42 |
| 700.0000 | 25 | 25 | 25 | | | | | | | | | | | | 42 |
| 725.0000 | 24 | 24 | 24 | | | | | | | | | | | | 42 |
| 750.0000 | 24 | 24 | 24 | | | | | | | | | | | | 42 |
| 775.0000 | 25 | 25 | 25 | | | | | | | | | | | | 42 |
| 800.0000 | 26 | 26 | 26 | | | | | | | | | | | | 42 |
| 825.0000 | 25 | 25 | 25 | | | | | | | | | | | | 42 |
| 850.0000 | 25 | 25 | 25 | | | | | | | | | | | | 42 |
| 875.0000 | 26 | 26 | 26 | | | | | | | | | | | | 42 |
| 900.0000 | 27 | 27 | 27 | | | | | | | | | | | | 42 |
| 950.0000 | 27 | 27 | 27 | | | | | | | | | | | | 42 |
| 1,000.0000 | 27 | 27 | 27 | | | | -15.0 | -15.0 | -15.0 | | | -15 | 0 | -15 | 42 |
| No interference measured, only antenna corrections reported | | | | | | | | | | | | | | | |
| TESTRESULT | | | | | | | | | | PASS | | | | | |

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| Tested sample: BT3206 | | |
| Remarks : Tested with Jiaai motor | | |
| Test purpose : Release | Rating : 100-240V / 2W /50-60Hz | |
| Manufacturer : Indonesia, Batam. | Sec: 4.3V / 70mA | |

Fieldstrength measurement (3M) 30-1000 MHz. acc. to CISPR-14 Q-PEAK detector

Test equipment : Receiver TESEQ SMR4503, Antenna 3142E ETS-Lindgren, C.F.A.R. RAINFORD



TESTRESULT

PASS

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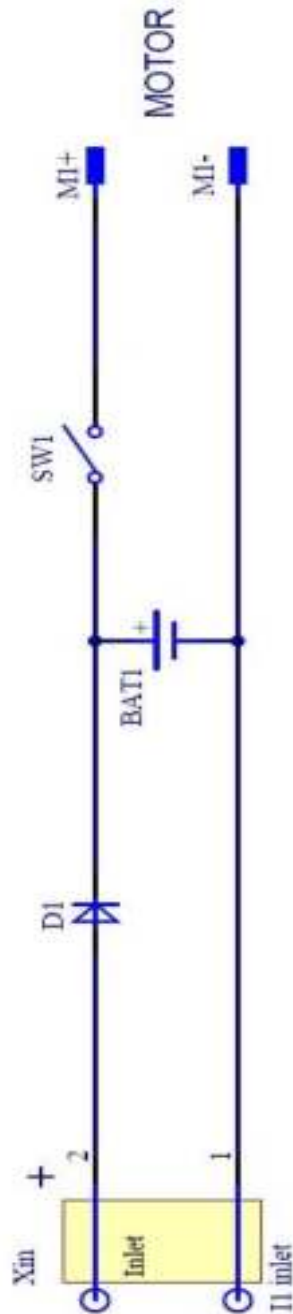
Test equipment : Receiver TESEQ SMR4503, Antenna 3142E ETS-Lindgren, C.F.A.R. RAINFORD

| Frequency (MHz.) | Emission of appliance nr.: (dBµVm) | | | | | | | | | | 80%/80% calculation | | | | |
|---|------------------------------------|----|----|-----|-----|-----|-------------|---------|---------|--|---------------------|-----|---|-------|-------|
| | 1 | 2 | 3 | --- | --- | --- | Margin1 | Margin2 | Margin3 | | | X | S | X+K*S | Limit |
| 30.0000 | 18 | 18 | 18 | | | | | | | | | | | | 42 |
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| 50.0000 | 8 | 8 | 8 | | | | | | | | | | | | 40.2 |
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| 180.0000 | 11 | 11 | 11 | | | | | | | | | | | | 35.8 |
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| 250.0000 | 14 | 14 | 14 | | | | | | | | | | | | 42 |
| 275.0000 | 15 | 15 | 15 | | | | | | | | | | | | 42 |
| 300.0000 | 15 | 15 | 15 | | | | | | | | | | | | 42 |
| 325.0000 | 16 | 16 | 16 | | | | | | | | | | | | 42 |
| 350.0000 | 17 | 17 | 17 | | | | | | | | | | | | 42 |
| 375.0000 | 18 | 18 | 18 | | | | | | | | | | | | 42 |
| 400.0000 | 19 | 19 | 19 | | | | | | | | | | | | 42 |
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| 475.0000 | 20 | 20 | 20 | | | | -22.0 | -22.0 | -22.0 | | | -22 | 0 | -22 | 42 |
| 500.0000 | 20 | 20 | 20 | | | | | | | | | | | | 42 |
| 525.0000 | 22 | 22 | 22 | | | | | | | | | | | | 42 |
| 550.0000 | 21 | 21 | 21 | | | | | | | | | | | | 42 |
| 575.0000 | 22 | 22 | 22 | | | | | | | | | | | | 42 |
| 600.0000 | 22 | 22 | 22 | | | | | | | | | | | | 42 |
| 625.0000 | 23 | 23 | 23 | | | | | | | | | | | | 42 |
| 650.0000 | 23 | 23 | 23 | | | | | | | | | | | | 42 |
| 675.0000 | 24 | 24 | 24 | | | | | | | | | | | | 42 |
| 700.0000 | 25 | 25 | 25 | | | | | | | | | | | | 42 |
| 725.0000 | 24 | 24 | 24 | | | | | | | | | | | | 42 |
| 750.0000 | 24 | 24 | 24 | | | | | | | | | | | | 42 |
| 775.0000 | 25 | 25 | 25 | | | | | | | | | | | | 42 |
| 800.0000 | 26 | 26 | 26 | | | | | | | | | | | | 42 |
| 825.0000 | 25 | 25 | 25 | | | | | | | | | | | | 42 |
| 850.0000 | 25 | 25 | 25 | | | | | | | | | | | | 42 |
| 875.0000 | 26 | 26 | 26 | | | | | | | | | | | | 42 |
| 900.0000 | 27 | 27 | 27 | | | | | | | | | | | | 42 |
| 950.0000 | 27 | 27 | 27 | | | | | | | | | | | | 42 |
| 1,000.0000 | 27 | 27 | 27 | | | | -15.0 | -15.0 | -15.0 | | | -15 | 0 | -15 | 42 |
| No interference measured, only antenna corrections reported | | | | | | | | | | | | | | | |
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Circuit diagram :



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|----------------------------------|-------------|---|
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| Manufacturer : Indonesia, Batam. | | Sec: 4.3V / 70mA |

Flicker measurement, according to EN61000-3-3

Test equipment : California Instruments Interface PACS-1, AC Powersource 5001ix

THIS APPLIANCE FULFILLS THE REQUIREMENT WITHOUT TESTING

(conclusion based on electrical diagram / power-rating / number of switchings)

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| Test engineer : H. Bodde | | |
| Tested sample: BT3206 | | |
| Remarks : NiMH version | | |
| Test purpose : Release | Rating : 100-240V / 2W /50-60Hz | |
| Manufacturer : Indonesia, Batam. | Sec: 4.3V / 70mA | |

Flicker, Inrush measurement , according to EN61000-3-3

Test equipment : California Instruments Interface PACS-1, AC Powersource 5001ix

| Determining the type of equipment (limit d_{max}) | |
|--|--|
| X | Equipment with manual switching and max. r.m.s. current (including inrush current) ≤ 20 A. and the supply current after inrush is within a variation band of 1.5 A. |
| | Equipment without additional conditions. |
| | Equipment switched on manually or automatic more frequently than twice per day, and also has either a delayed restart (> 0.2 sec) |
| | Equipment attended whilst in use (hairdrier, vac cleaner, kitchen equipment such as mixers), or switched on automatically, or is intended to be switched on manually, no more than twice per day, and also has either a delayed restart (>0.2 sec.) or manual restart, after a power supply interruption. |

THIS APPLIANCE FULFILLS THE REQUIREMENT WITHOUT TESTING

| | | |
|--|--|--|
| | | |
|--|--|--|

EMC test laboratory Royal Philips Drachten, Netherlands

| | | |
|----------------------------------|-------------|---|
| Report : SM 9558 | Samples : 1 | Appliance: Trimmer |
| Date : October 18, 2019 | | type nr. : BT3203,BT3206,BT3207,BT3208. |
| Test engineer : H. Bodde | | |
| Tested sample: BT3206 | | |
| Remarks : NiMH version | | |
| Test purpose : Release | | Rating : 100-240V / 2W /50-60Hz |
| Manufacturer : Indonesia, Batam. | | Sec: 4.3V / 70mA |

Harmonic-current measurement domestic appliances, according to EN 61000-3-2

Test equipment : California Instruments Interface PACS-1, AC Powersource 5001ix

THIS APPLIANCE FULFILLS THE REQUIREMENT WITHOUT TESTING

(conclusion based on electrical diagram / power-rating)

EMC test laboratory Royal Philips Drachten, Netherlands

| | | |
|----------------------------------|---|---|
| Report : SM 9558 | Samples : 1 | Appliance: Trimmer |
| Date : October 18, 2019 | type nr. : BT3203,BT3206,BT3207,BT3208. | |
| Test engineer : H. Bodde | | |
| Tested sample: BT3206 | | |
| Remarks : NiMH version | | |
| Test purpose : Release | | Rating : 100-240V / 2W /50-60Hz Sec: 4.3V / 70mA |
| Manufacturer : Indonesia, Batam. | | |

Immunity test, according to EN55014-2

Test equipm.: EMtest UCS500N,Schaffner NSG2070,Schaffner NSG435,California Instruments PACS-1;5001ix

| Classification of apparatus | |
|-----------------------------|--------------|
| | category I |
| | category II |
| ✘ | category III |
| | category IV |

| Tested criteria : | | | |
|-------------------|-------------------|---|------------------|
| ✘ | Motor speed | | Illumination |
| ✘ | Switching | | Display data |
| | Standby mode | | Data storage |
| | Temperature | | Sensor functions |
| | Power consumption | | Audible signal |
| | Heating | ✘ | Charge process |
| | Timing | | |

| | | Result | Comment on performance loss |
|------------------------------|--|--------|-----------------------------|
| EN 61000-4-2 | | Pass | |
| Electro Static | Contact : 4kV | | |
| Discharge | Air : 8kV | | |
| EN 61000-4-3 | | N.A. | |
| RF Electro Magnetic Field | Level 2(3Vm) | | No electronics in Groomer |
| EN 61000-4-4 | | Pass | |
| Fast Transients | Level 2(1kV) 5/100kHz Pos. / Neg. for 2min. | | |
| | | | |
| EN 61000-4-5 | | Pass | |
| Surges | L-L Level 2(1kV/2Ω) | | |
| | L-E Level 3(2kV/12Ω) | | |
| EN 61000-4-6 | | Pass | |
| Injected Current | 0.15-250MHz. Level 2(3V)mod.80% | | |
| | | | |
| EN 61000-4-11 | | Pass | |
| Volt. Dips and Interruptions | All levels / durations | | |

| | |
|-------------------------|-------------|
| TOTAL TESTRESULT | PASS |
|-------------------------|-------------|

EMC test laboratory Royal Philips Drachten, Netherlands

| | |
|----------------------------------|---|
| Report : SM 9558 | Appliance: Trimmer |
| Date : October 18, 2019 | type nr. : BT3203,BT3206,BT3207,BT3208. |
| Test engineer : H. Bodde | |
| Tested sample: BT3206 | |
| Remarks : NiMH version | |
| Test purpose : Release | Rating : 100-240V / 2W /50-60Hz |
| Manufacturer : Indonesia, Batam. | Sec: 4.3V / 70mA |

Measurement Uncertainties

A measurement result only approximates the value of the measurand, because uncertainties in quantities that influence the measurement give rise to uncertainty in that result. The measurement uncertainty U describes an interval about the measurement result within which the value of the measurand is believed to lie with a specified level of confidence.

Accuracy of measurement

The reported expanded uncertainty is stated as the standard uncertainty of measurement multiplied by the coverage factor $k = 2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.

A lack of reproducibility caused by different interpretations of an ambiguous or incomplete test method, is not a contributor to the reported measurement uncertainty.

CISPR 16-4-2 uncertainty values (Ucisprr)

Ucisprr, is a measurement uncertainty achievable using well-calibrated quality test equipment which meets CISPR 16-1 specifications, and applying good engineering practice.

If the measurement uncertainty U is less than or equal to Ucisprr, compliance is deemed to occur provided no measured emission exceeds the emission limits.

If the measurement uncertainty U is greater than Ucisprr, compliance is deemed to occur provided no measured emission, increased by $(U - Ucisprr)$, exceeds the emission limit.

| Measurement | Equipment | Standard | Measurement uncertainty (dB) | | |
|---|---|--------------------------------|------------------------------|------------------------------------|--|
| | | | Utest lab | Ucisprr | |
| EMISSION | | | | | |
| Mains terminal disturbance voltage 9 kHz – 150 kHz | LISN R&S, receiver PMM 9000 | CISPR 15 / FCC 18 | 3.6 | 4.0 | |
| Mains terminal disturbance voltage 9 kHz – 50 kHz | LISN R&S, receiver Schwarzbeck FMLK 1518 | CISPR 15 / FCC 18 | (14.0) | 4.0 | (Receiver not used below 150KHz) |
| Mains terminal disturbance voltage 50 kHz – 150 kHz | LISN R&S, receiver Schwarzbeck FMLK 1518 | CISPR 15 / FCC 18 | 6.2 | 4.0 | |
| Mains terminal disturbance voltage 0.15 - 30 MHz | LISN R&S, receiver PMM 9000 | CISPR 11/13/14/15/22 FCC 15/18 | 3.6 | 3.6 | |
| Mains terminal disturbance voltage 0.15 - 30 MHz | LISN R&S, receiver Schwarzbeck FMLK 1518 | CISPR 11/13/14/15/22 FCC 15/18 | 3.8 | 3.6 | |
| Mains terminal disturbance voltage 9kHz - 30 MHz | LISN R&S, receiver TESEQ SMR4503 | CISPR 11/13/14/15/22 FCC 15/18 | 3.5 | 3.6 | |
| Conducted emission: voltage probe 0.15-30MHz | Voltage probe, receiver PMM9000 | CISPR 14 | 3.1 | u.c. | |
| Conducted emission: voltage probe 0.15-30MHz | Voltage probe, receiver TESEQ SMR4503 | CISPR 14 | 3.0 | u.c. | |
| Disturbance power 30 - 300 MHz absorbing clamp | Clamp, receiver PMM9000 | CISPR 13/14 | 4.4 | 4.5 | |
| Disturbance power 30 - 300 MHz absorbing clamp | Clamp, receiver TESEQ SMR4503 | CISPR 13/14 | 4.4 | 4.5 | |
| Disturbance radiation 9 kHz - 30 MHz large loop | LLA, receiver FMLK 1518 | CISPR 11 / 15 | 4.0 | u.c. | |
| Disturbance radiation 9 kHz - 30 MHz large loop | LLA, receiver TESEQ SMR4503 | CISPR 11 / 15 | 3.9 | u.c. | |
| Disturbance 30-300MHz CDN method | CDN216, receiver PMM9000 | CISPR 15 annex B | 2.7 | | |
| Disturbance 30-300MHz CDN method | CDN216, receiver TESEQ SMR4503 | CISPR 15 annex B | 2.5 | | |
| Field strength measurement 30-1000MHz | Schwarzbeck VUMA 1521 antenna ETS3142E | CISPR 11/14 | 3.5 | | |
| Field strength measurement 30-1000MHz | TESEQ SMR4503 antenna ETS3142E | CISPR 11/14 | 3.0 | | |
| Inrush current | California Instruments model 5001iX | EN 61000-3-3 | note 1) | ±8 % | Calibrated by voltage measurement |
| Mains harmonic currents emission | California Instruments model 5001iX | IEC 61000-3-2 | note 1) | See Annex A.2 | harmonics not calibrated, software control |
| Mains voltage fluctuations and flicker | California Instruments model 5001iX | IEC 61000-3-3 | note 1) | Clause 6.2 | |
| EMF | ELT-400 model BN-2304/03 + 100cm ² probe | EN-IEC62233 | 4.4 | 25% | |
| IMMUNITY | | | | | |
| Electrostatic discharge | NSG 435 | IEC 61000-4-2 | note 1) | Annex E | See calibration report for uc |
| Radiated, RF-electromagnetic field | Radi Field Sensor + Radi Power heads | IEC 61000-4-3 | 2.8 | Annex E | |
| Electrical fast transient/burst | UCS500N5 | IEC 61000-4-4 | note 1) | | |
| Surge | UCS500N5 | IEC 61000-4-5 | note 1) | | |
| Immunity to RF-conducted disturbances | NSG2070 | IEC 61000-4-6 | note 1) | | |
| Power frequency magnetic field | Loop | IEC 61000-4-8 | note 2) | Current measurement ±2% | |
| Voltage dips and interruptions | California Instruments model 5001iX | IEC 61000-4-11 | note 1) | voltage levels checked by software | |
| Mains harmonic currents injected in the mains | California Instruments model 5001iX | IEC 61000-3-2 | note 1) | See Annex A.2 | harmonics not calibrated, software control |

u.c. = under consideration

Note 1)

The Test Equipment meets the specified requirements in the standard (covered by calibration procedure)

Note 2)

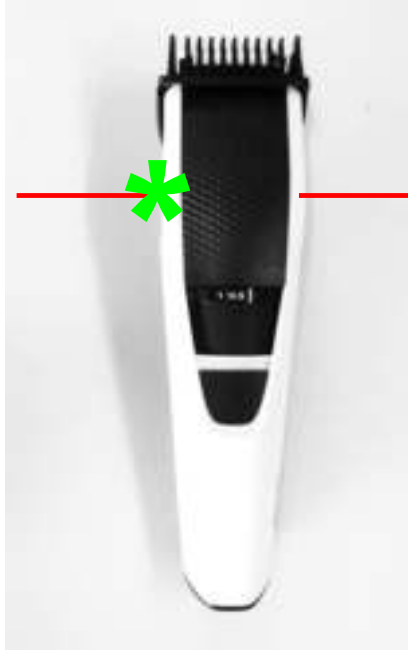
Field check with EMF meter

EMC test laboratory Royal Philips Drachten, Netherlands

| | | |
|----------------------------------|-------------|---|
| Report : EMF 9558 | Samples : 1 | Appliance: Trimmer |
| Date : October 18, 2019 | | type nr. : BT3203,BT3206,BT3207,BT3208. |
| Test engineer : H. Bodde | | |
| Tested sample: BT3206 | | |
| Remarks : NiMH version | | |
| Test purpose : Release | | Rating : 100-240V / 2W /50-60Hz |
| Manufacturer : Indonesia, Batam. | | Sec: 4.3V / 70mA |

E.M.F. measurement according to IEC / EN62233 (2008)

Test equipment : Narda ELT-400 model BN2304/03 + Probe model BN2300/90.10



Polarisation of the magnetic flux B.



* = Max. field position

| Measuring position | Test distance | W | Result |
|-------------------------|---------------|--------|--------|
| On cutter (Loda motor) | 0 cm. | 6.31 % | Pass |
| On cutter (Jiaai motor) | 0 cm. | 6.46 % | Pass |
| All surfaces (adapter) | 30 cm. | 1.43 % | Pass |

TEST RESULT **PASS**

Assessed by KEMA
see 2082764.01-QUA/BST