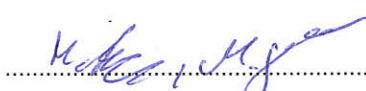
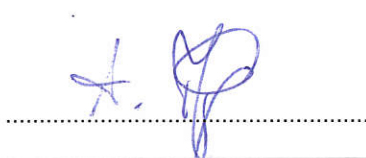


EMC TEST REPORT FCC 47 CFR Part 15B, ISED ICES-003 Issue 6	
Report Reference No	G0M-1912-8654-EF0115B-V01
Testing Laboratory	Eurofins Product Service GmbH
Address	Storkower Str. 38c 15526 Reichenwalde Germany
Accreditation	    DAKKS - Registration number : D-PL-12092-01-03 (ISED) ISED Testing Laboratory site: 3470A-2 DAKKS - Registration number : D-PL-12092-01-04 (FCC) FCC Filed Test Laboratory, Reg.-No.: 96970
Applicant	wh Münzprüfer Dietmar Trenner GmbH
Address	Teltower Damm 276 14167 Berlin GERMANY
Test Specification Standard(s)	47 CFR Part 15 Subpart B ISED ICES-003 Issue 6 ANSI C63.4:2014 + A1:2017
Non-Standard Test Method	None
Equipment under Test (EUT):	
Product Description	Coin selector
Model(s)	EMP 500 v7 /CLB
Additional Model(s)	None
Brand Name(s)	None
Hardware Version(s)	EMP500 E4
Software Version(s)	EMP7.50.18; BLE1.00.18
FCC-ID	2AVM3EMP500V7CLB
IC	25831-EMP500V7CLB
Test Result	PASSED

Possible test case verdicts:		
required by standard but not tested	N/T	
not required by standard	N/R	
required by standard but not appl. to test object	N/A	
test object does meet the requirement	P(PASS)	
test object does not meet the requirement	F(FAIL)	
Testing:		
Date of receipt of test item	2019-12-20	
Report:		
Compiled by	Manuel Engel	
Tested by (+ signature) (Responsible for Test)	Manuel Engel	
	Marco Belz	
Approved by (+ signature) (Test Lab Engineer)	Andreas Pflug	
Date of Issue	2020-02-13	
Total number of pages	34	
General Remarks:		
The test results presented in this report relate only to the object tested. The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.		
Additional Comments:		

ABBREVIATIONS AND ACRONYMS

Acronyms	
Acronym	Description
EUT	Equipment Under Test
FCC	Federal Communications Commission
ISED	Innovation, Science and Economic Development Canada
T _{NOM}	Nominal operating temperature
V _{NOM}	Nominal supply voltage

VERSION HISTORY

Version History			
Version	Issue Date	Remarks	Revised By
01	2020-02-13	Initial Release	

REPORT INDEX

1	Equipment (Test Item) Under Test.....	6
1.1	Equipment Ports.....	7
1.2	Equipment Photos - Internal.....	8
1.3	Equipment Photos - External.....	11
1.4	Support Equipment.....	14
1.5	Operational Modes.....	15
1.6	EUT Configuration.....	15
1.7	Sample emission level calculation.....	16
2	Result Summary.....	17
2.1	Test Conditions and Results - Radiated emissions acc. to ANSI C63.4.....	18
2.2	Test Conditions and Results - Conducted emissions acc. to ANSI C63.4.....	29

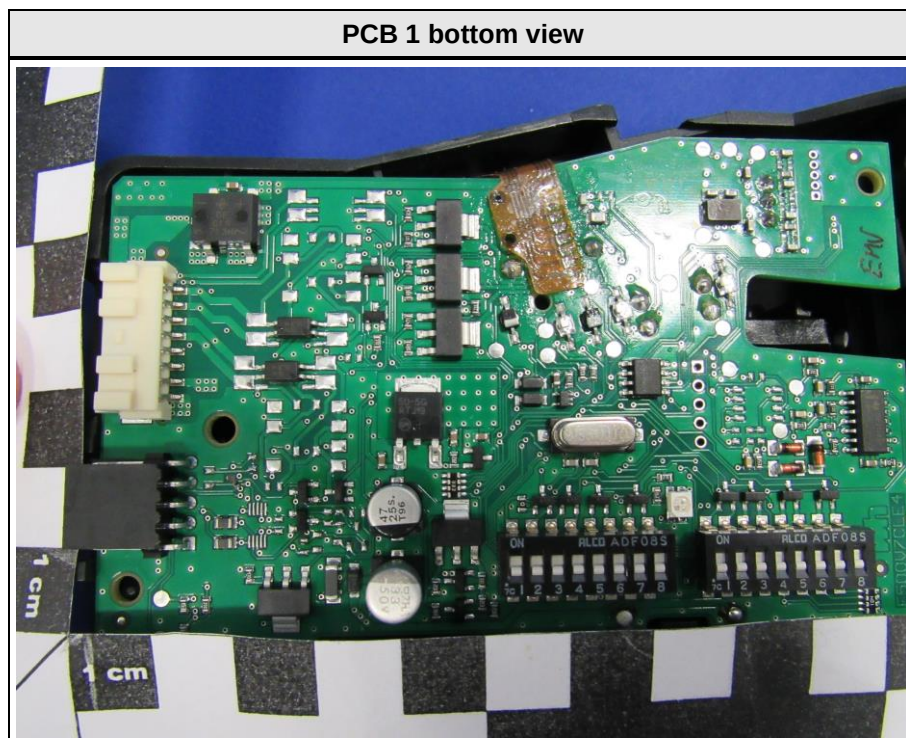
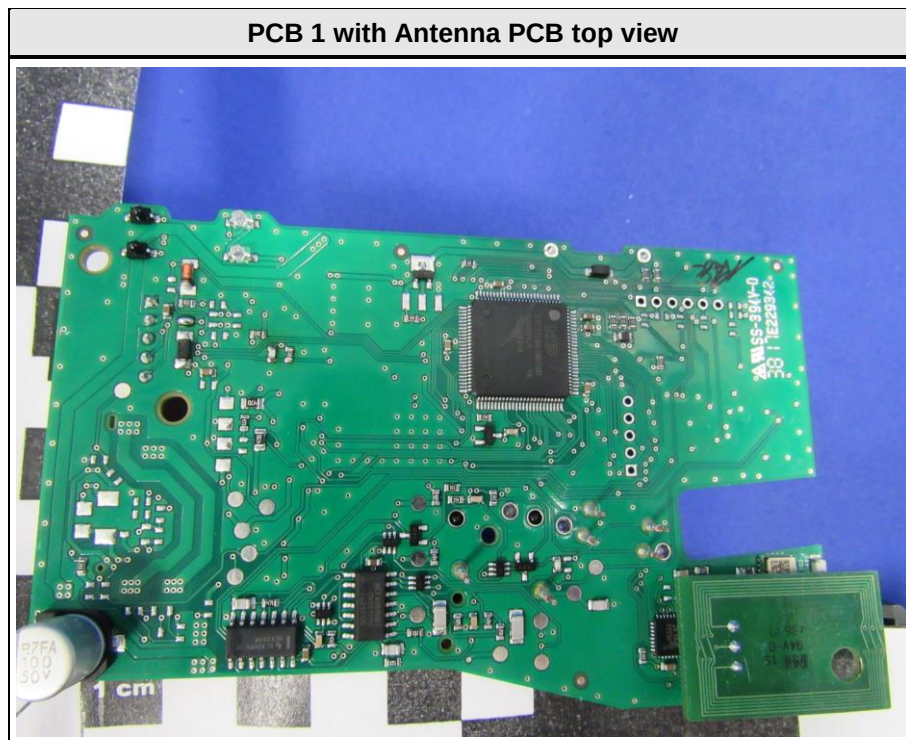
1 Equipment (Test Item) Under Test

Description	Coin selector	
Model	EMP 500 v7 /CLB	
Additional Model(s)	None	
Brand Name(s)	None	
Serial Number(s)	unspecified	
Hardware Version(s)	EMP500 E4	
Software Version(s)	EMP7.50.18; BLE1.00.18	
FCC-ID	2AVM3EMP500V7CLB	
IC	25831-EMP500V7CLB	
Class	Class B	
Equipment type	Table top	
Highest internal frequency [MHz]	2483.5	
Radio Module 1	Type	Bluetooth
	Model	CYBLE-222014-01
	Manufacturer	Cypress
	FCC-ID	WAP2005
	IC	7922A-2005
Radio Module 2	Type	RFID
	Model	NXP MIFARE MFRC 522
	Manufacturer	NXP
	FCC-ID	None
	IC	None
Supply Voltage	V _{NOM}	12 V DC
Manufacturer	wh Münzprüfer Dietmar Trenner GmbH Teltower Damm 276 14167 Berlin GERMANY	

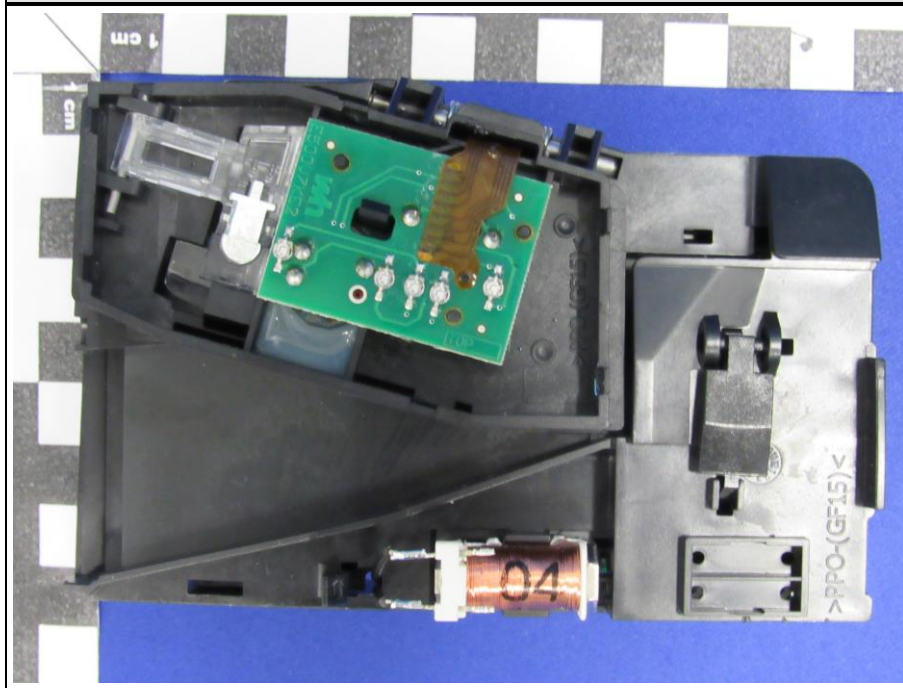
1.1 Equipment Ports

Name	Type	Attributes	Comment
Parallel	DC;IO	Count: 1 Direction: IO Service only: No	-DC power input -8 pins -signals incoming coins with pulses -length of cable 0.2 m, not shielded
Serial	IO	Count: 1 Direction: IO Service only: No	-5 pins -multiple. serial interfaces, 9600 baud -port not terminated
Description:			
AC	AC mains power input/output port		
DC	DC power input/output port		
BAT	DC power input port connected to external battery		
IO	Input/Output port		
TP	Telecommunication port		
NE	Non-electrical port		

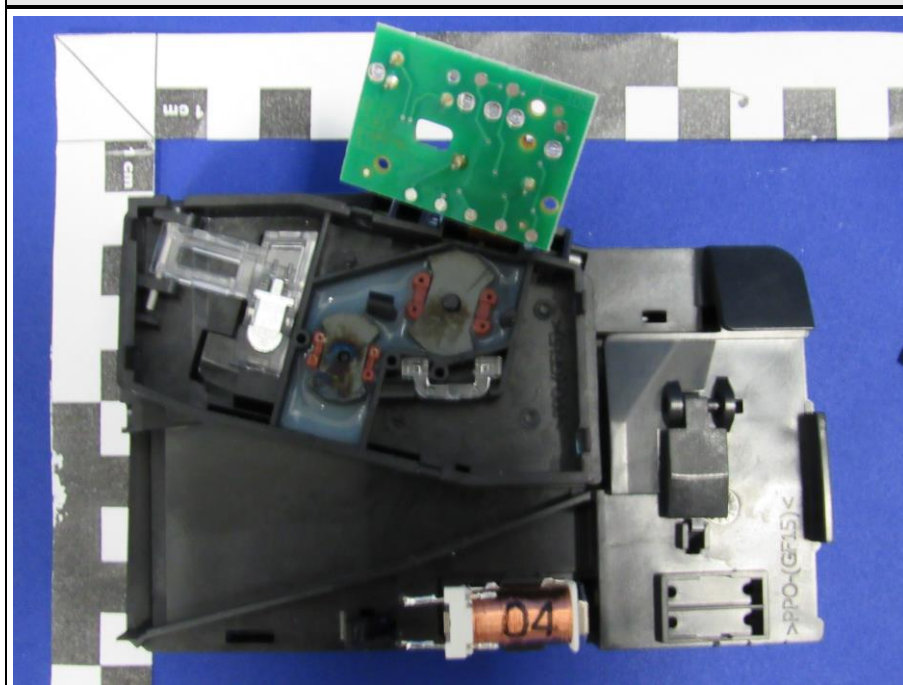
1.2 Equipment Photos - Internal



PCB 2 top view



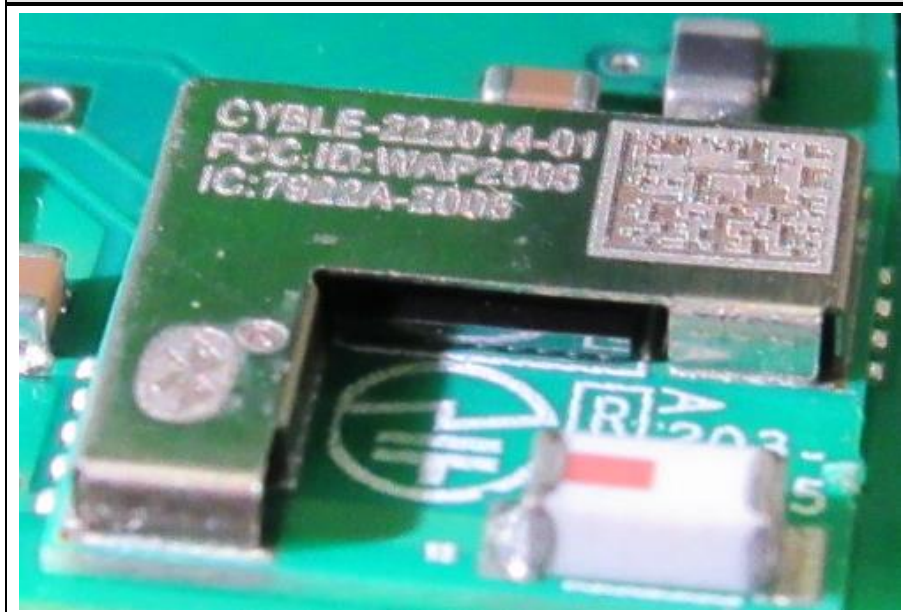
PCB 2 bottom view



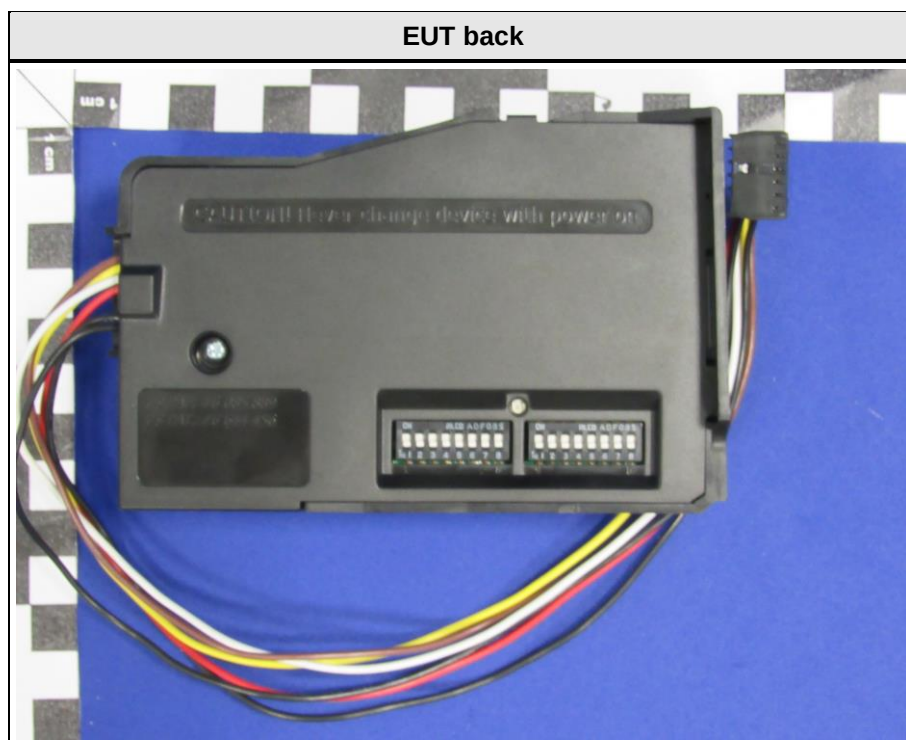
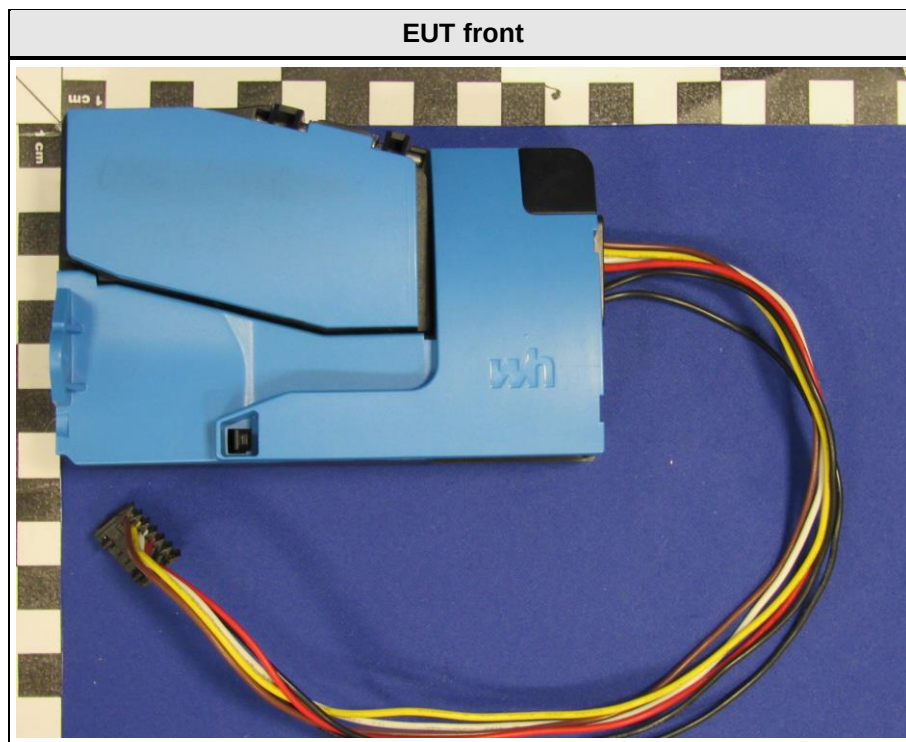
RFID module

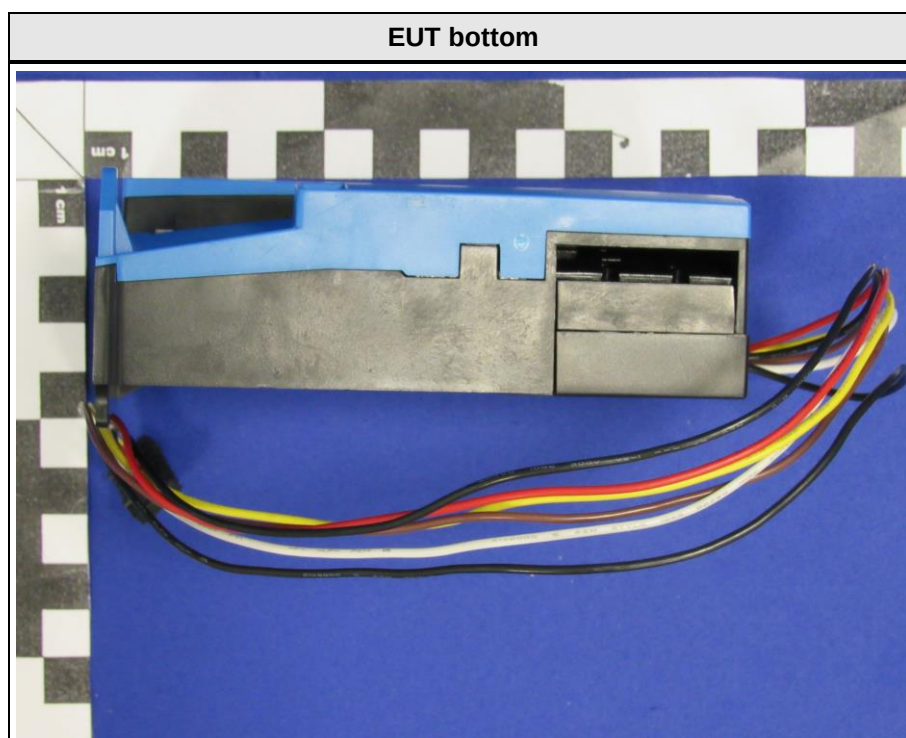
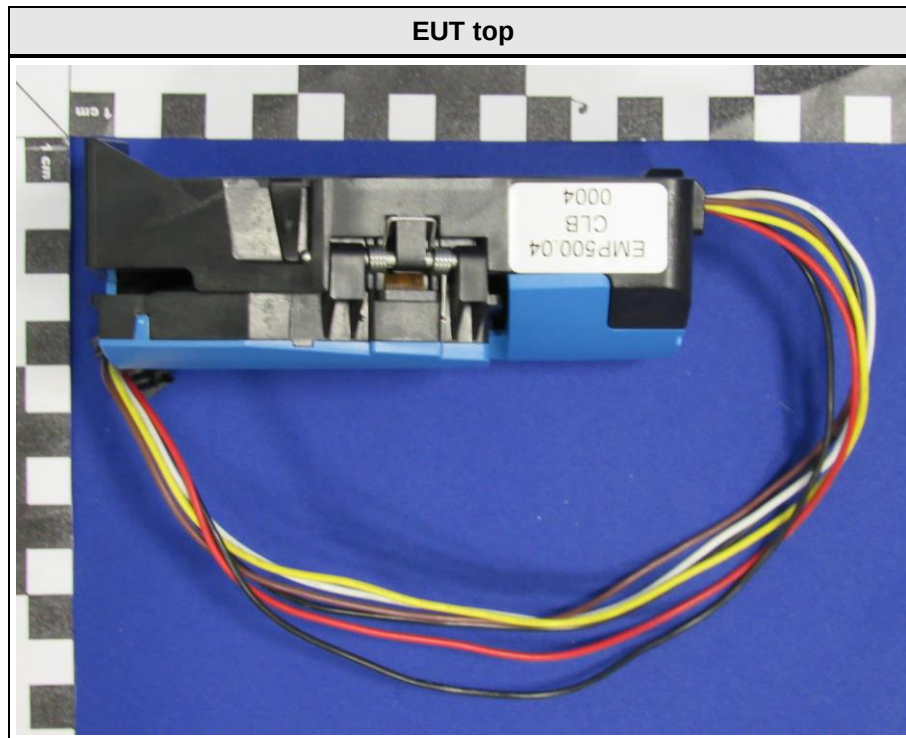


Bluetooth module

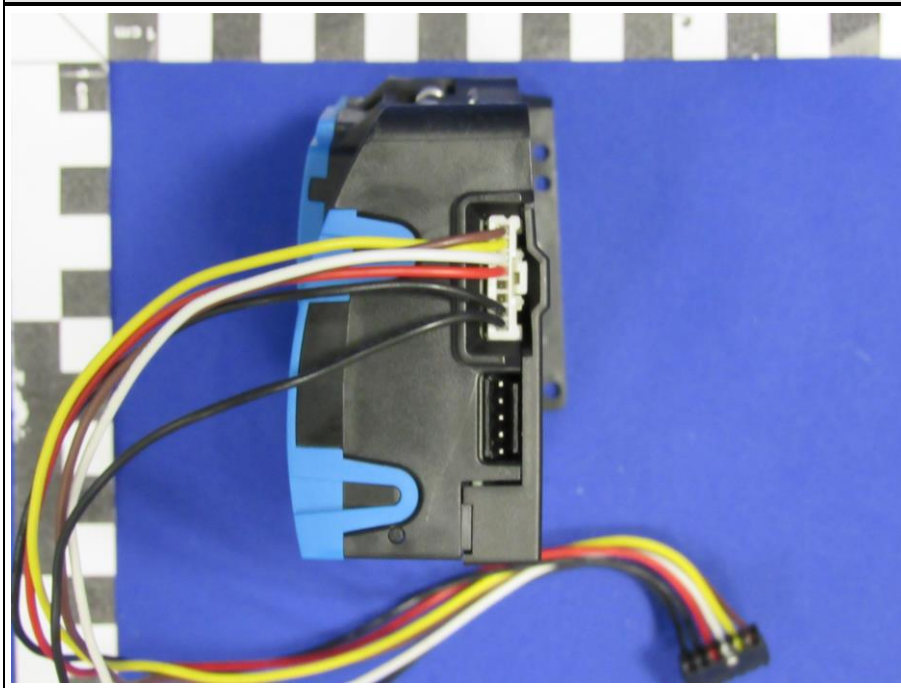


1.3 Equipment Photos - External

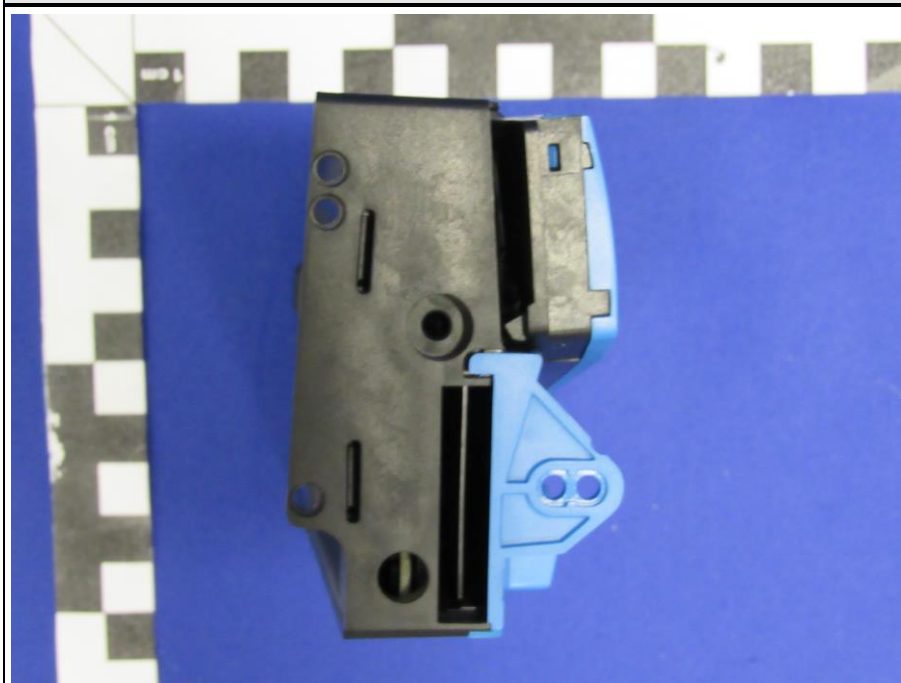




EUT right side



EUT left side



1.4 Support Equipment

Product Type	Device	Manufacturer	Model	Comment
AE	AC/DC-adapter	revolt™	PE-3747-675	Used for conducted emission
AE	NFC key	-	-	
Description:				
AE	Auxiliary Equipment			
SIM	Simulator			
MON	Monitoring Equipment			
CBL	Connecting Cable			
Comment:				

1.5 Operational Modes

Mode #	Description
1	EUT ready to operate, active Bluetooth LE and RFID
Comment: To check if this operating mode produces the emission with highest amplitude, test with coins was done before finale measured.	

1.6 EUT Configuration

Configuration #	Description
1	EUT is placed inside the measurement chamber EUT powered over port "Parallel" with 12 V DC from outside the measurement chamber via programmable AC & DC power supply NFC key placed in the slot
2	EUT is placed inside the measurement chamber EUT powered over port "Parallel" with 12 V DC via AC/DC adaptor with 120 V 60 Hz supply voltage. Supply voltage generate with programmable AC & DC power supply outside shielded room. NFC key placed in the slot.
Comment:	

1.7 Sample emission level calculation

The following is a description of terms and a sample calculation, as appears in the radiated emissions data table. The numbers used in the calculation are for example only. There is no direct correlation to the specific data taken for the product described in this document:

Reading:

This is the reading obtained on the spectrum analyser in dBµV. Any external preamplifiers used are taken into account through internal analyser settings.

A.F.:

This is the antenna factor for the receiving antenna. It is a conversion factor, which converts electric fields strengths to voltages, which can be measured directly on the spectrum analyser. It is treated as a loss in dB. Cable losses have been included with the A.F. to simplify the calculations. The antenna factor is used in calculations as follows:

$$\text{Reading on Analyser (dB}\mu\text{V)} + \text{A.F. (dB/m)} = \text{Net field strength (dB}\mu\text{V/m)}$$

Net:

This is the net field strength measurement (as shown above).

Limit:

This is the FCC Class B radiated emission limit (in units of dBµV/m). The FCC limits are given in units of µV/m. The following formula is used to convert the units of µV/m to dBµV/m:

$$\text{Limit (dB}\mu\text{V/m)} = 20 \cdot \log(\mu\text{V/m})$$

Margin:

This is the margin of compliance below the FCC limit. The units are given in dB. A negative margin indicates the emission was below the limit. A positive margin indicates that the emission exceeds the limit.

Example only:

Reading + AF	= Net Reading	:	Net reading - FCC limit	= Margin
+21.5 dBµV + 26 dB/m	= 47.5 dBµV/m	:	47.5 dBµV/m - 57.0 dBµV/m	= -9.5 dB

2 Result Summary

FCC 47 CFR Part 15B, ISED ICES-003 Issue 6				
Reference	Requirement	Reference Method	Result	Remarks
Emission				
FCC 15.109 ICES-003, 8, 6.1	Radiated emissions	ANSI C63.4:2014	PASS	
FCC 15.107 ICES-003, 8, 6.2	AC power line conducted emissions	ANSI C63.4:2014	PASS	
Comment:				

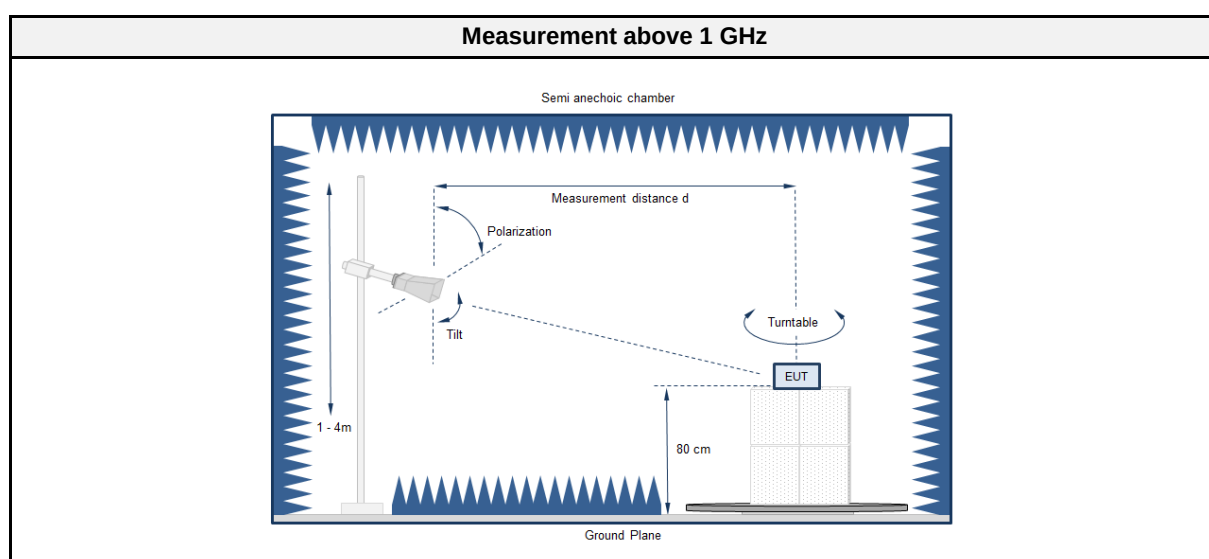
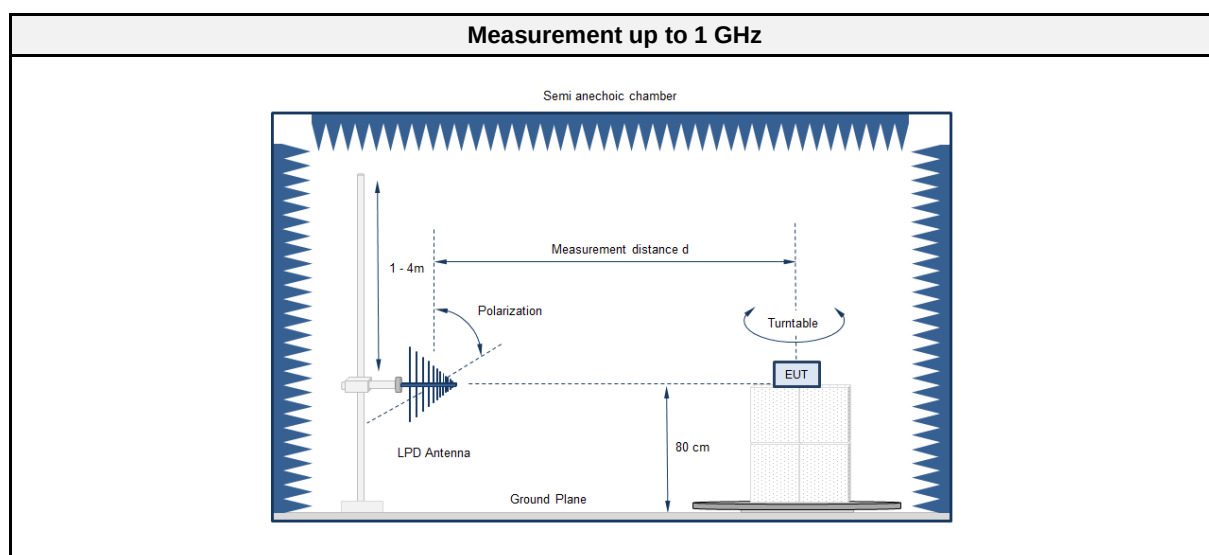
Possible Test Case Verdicts	
PASS	Test object does meet the requirements
FAIL	Test object does not meet the requirements
N/T	Required by standard but not tested
N/R	Not required by standard for the test object

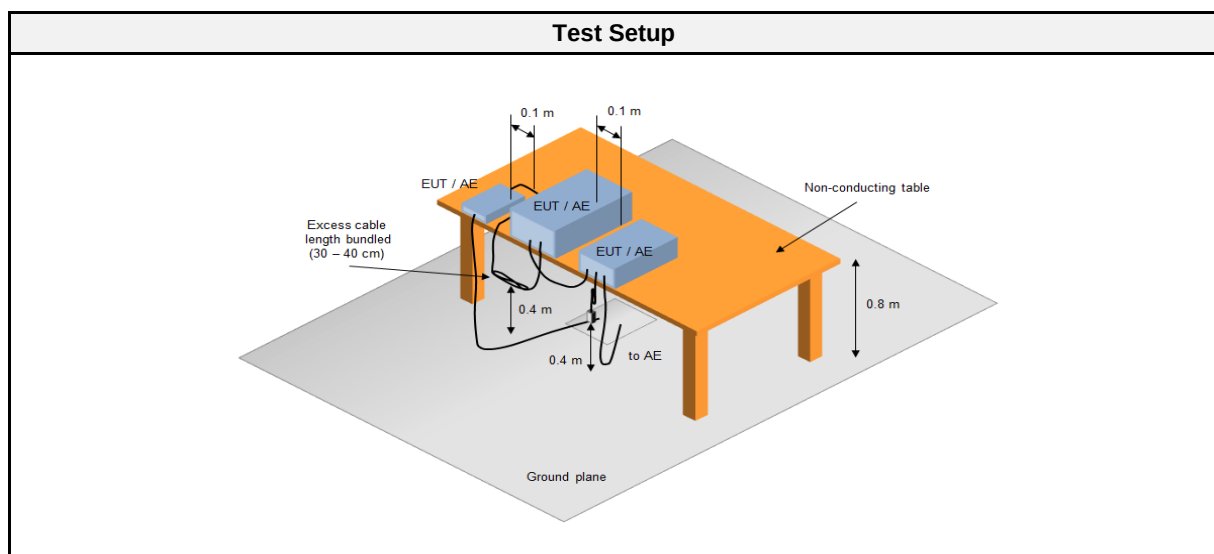
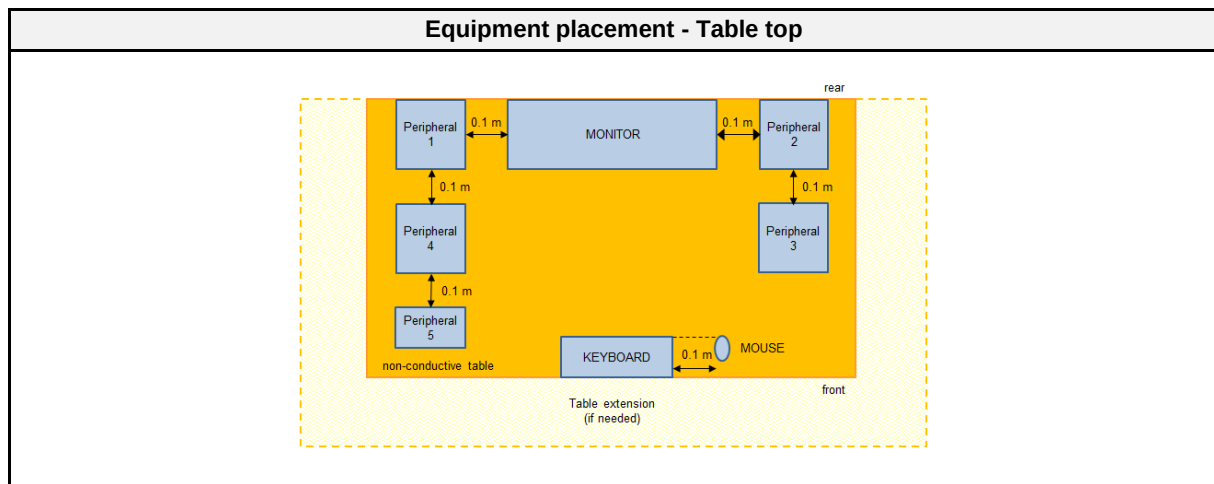
2.1 Test Conditions and Results - Radiated emissions acc. to ANSI C63.4

2.1.1 Information

Test Information	
Reference	FCC 15.109, ICES-003, 8, 6.1
Reference method	ANSI C63.4:2014 Section 8
Equipment class	Class B
Equipment type	Table top
Highest internal frequency [MHz]	2483.5
Measurement range	30 MHz to 13000 MHz
Temperature [°C]	23
Humidity [%]	32
Operator	Manuel Engel
Date	2019-12-20

2.1.2 Setup





2.1.3 Equipment

Test Software			
Description	Manufacturer	Name	Version
EMC Software	DARE Instruments	Radimation	2016.1.10

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic chamber	Frankonia	AC1	EF00062	2018-07	2021-07
EMI Test Receiver	Keysight	N9038A-526/WXP	EF01070	2019-09	2020-09
Biconical Antenna	R&S	HK 116	EF00030	2019-04	2022-04
LPD Antenna	R&S	HL 223	EF00187	2019-05	2022-05
Horn antenna	Schwarzbeck	BBHA 9120D (1-18GHz)	EF00018	2019-10	2022-10
Climatic Sensor	Embedded Data Systems, LLC.	2800100000254 17E	EF01054	2019-05	2020-05
AC & DC Power Supply	Chroma ATE Inc.	61604	EF01380	2019-07	2020-07

2.1.4 Procedure

Exploratory measurement	
1.	The EUT was placed on a non-conductive table at a height of 0.8m.
2.	The EUT and support equipment, if needed, were set up to simulate typical usage.
3.	Cables, of type and length specified by the manufacturer, were connected to at least one port of each type and were terminated by a device or simulating load of actual usage.
4.	The antenna was placed at a distance of 3 or 10 m.
5.	The received signal was monitored at the measurement receiver.
6.	This procedure has to be performed in both antenna polarizations, horizontal and vertical.
7.	The arrangement of the equipment with the maximum emission level is shown on the setup picture at item 1.3

Final measurement	
1.	The EUT was placed on a 0.8 m non-conductive table at a 3 m distance from the receive antenna. The antenna output was connected to the measurement receiver.
2.	A biconical antenna was used for the frequency range 30 – 200 MHz, a logarithmic periodical antenna was used for the frequency range from 200 – 1000 MHz. Above one 1 GHz a Double Ridged Broadband Horn antenna was used. The antenna was placed on an adjustable height antenna mast.
3.	The EUT and cable arrangement were based on the exploratory measurement results.
4.	Emissions were maximized at each frequency by rotating the EUT and adjusting the receive antenna height and polarization. The maximum values were recorded.
5.	The test data of the worst-case conditions were recorded and shown on the next pages.

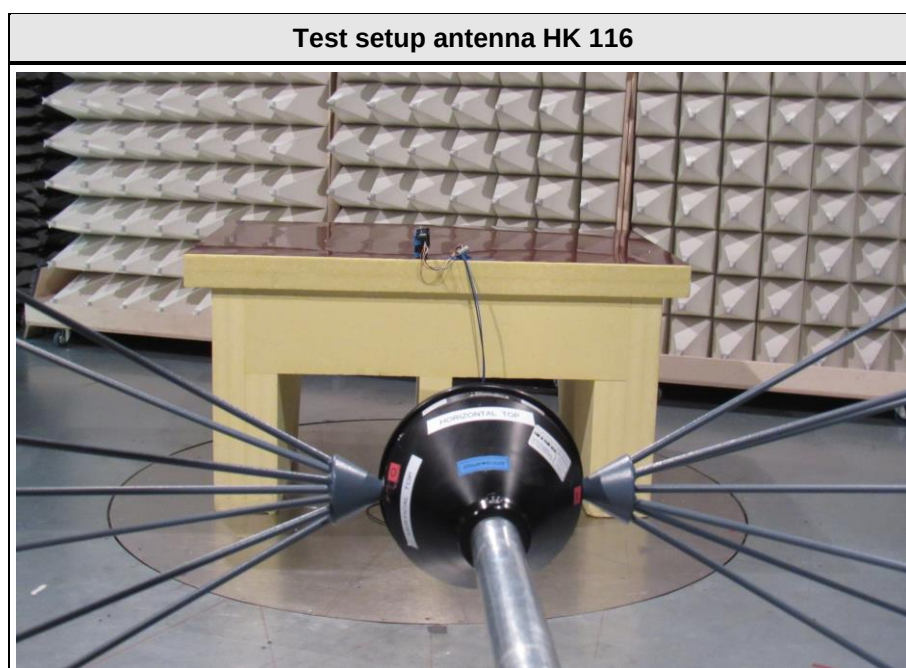
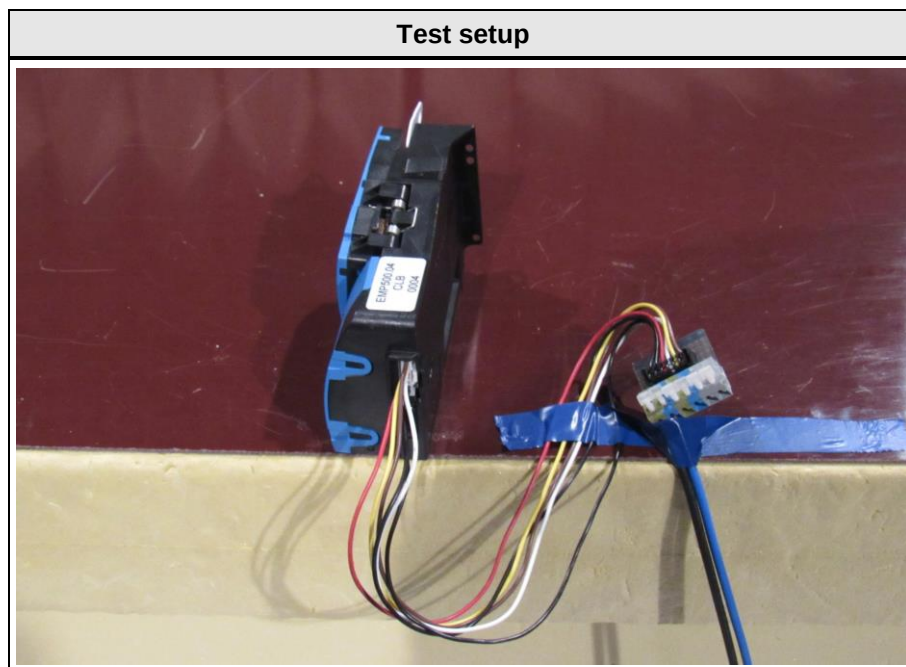
2.1.5 Limits

Class B @ 3 m		
Frequency [MHz]	Detector	Limit [dB μ V/m]
30 - 88	Quasi-peak	40
88 - 216	Quasi-peak	43.5
216 - 960	Quasi-peak	46
960 - 1000	Quasi-peak	54
> 1000	Peak	74
	Average	54

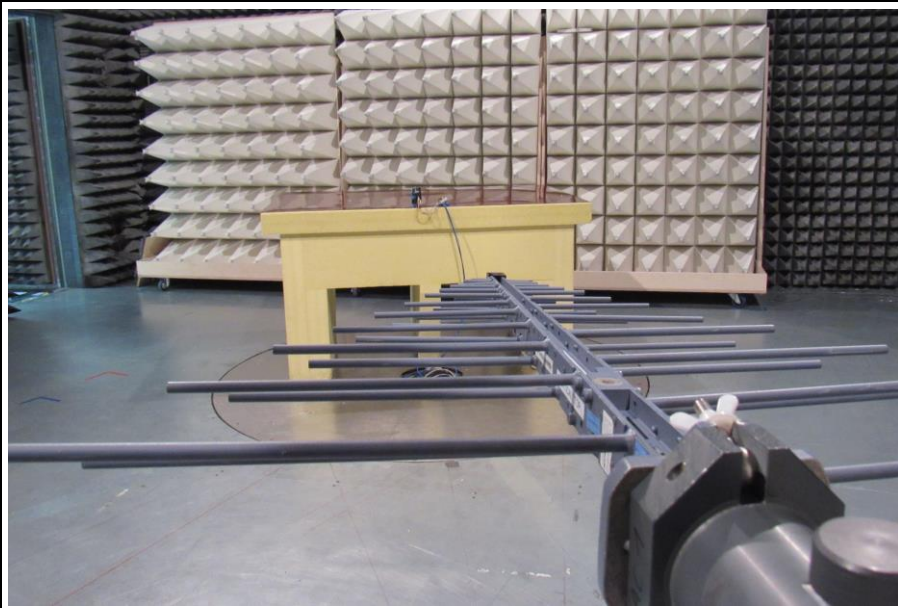
2.1.6 Results

Test Results			
Operational mode	EUT Configuration	Verdict	Remark
1	1	PASS	

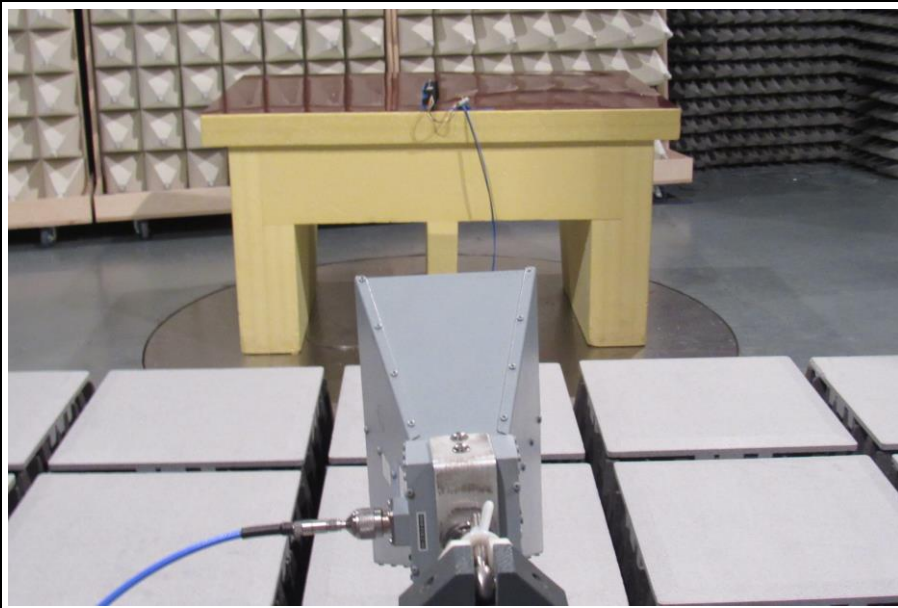
2.1.7 Setup Photos



Test setup antenna HL 223



Test setup antenna BBHA 9120D

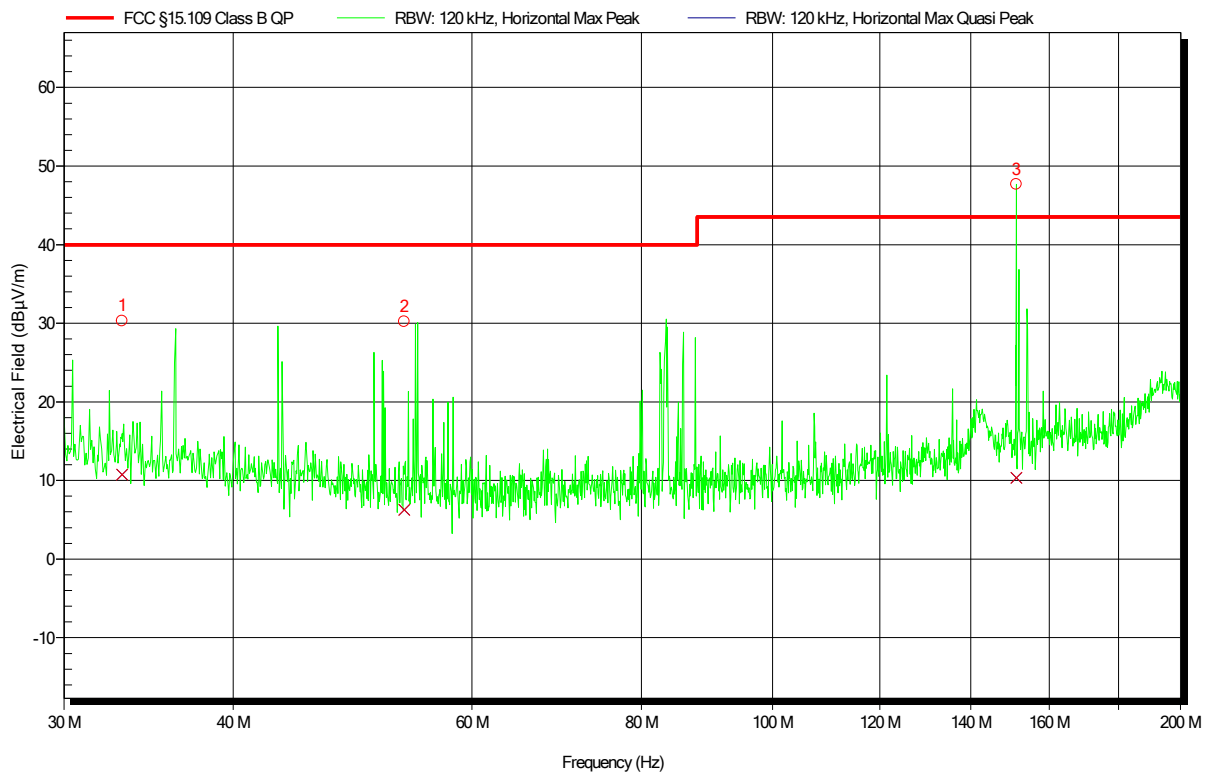


2.1.8 Records

Radiated emissions according to FCC 15B, ICES-003

Project Number: G0M-1912-8654
 Applicant: wh Münzprüfer Dietmar Trenner GmbH
 Model Description: Coin selector
 Model: EMP 500 v7 /CLB
 Test Sample ID: 27373
 Test Site: AC 1
 Operator: Mr. Engel
 Test Date: 2019-12-20
 Operating Conditions: ambient temperature: 23
 power input: 12 V DC
 Antenna: Rohde & Schwarz HK 116, Horizontal
 Measurement Distance: 3 m
 Mode: 1
 Note:

Index 3

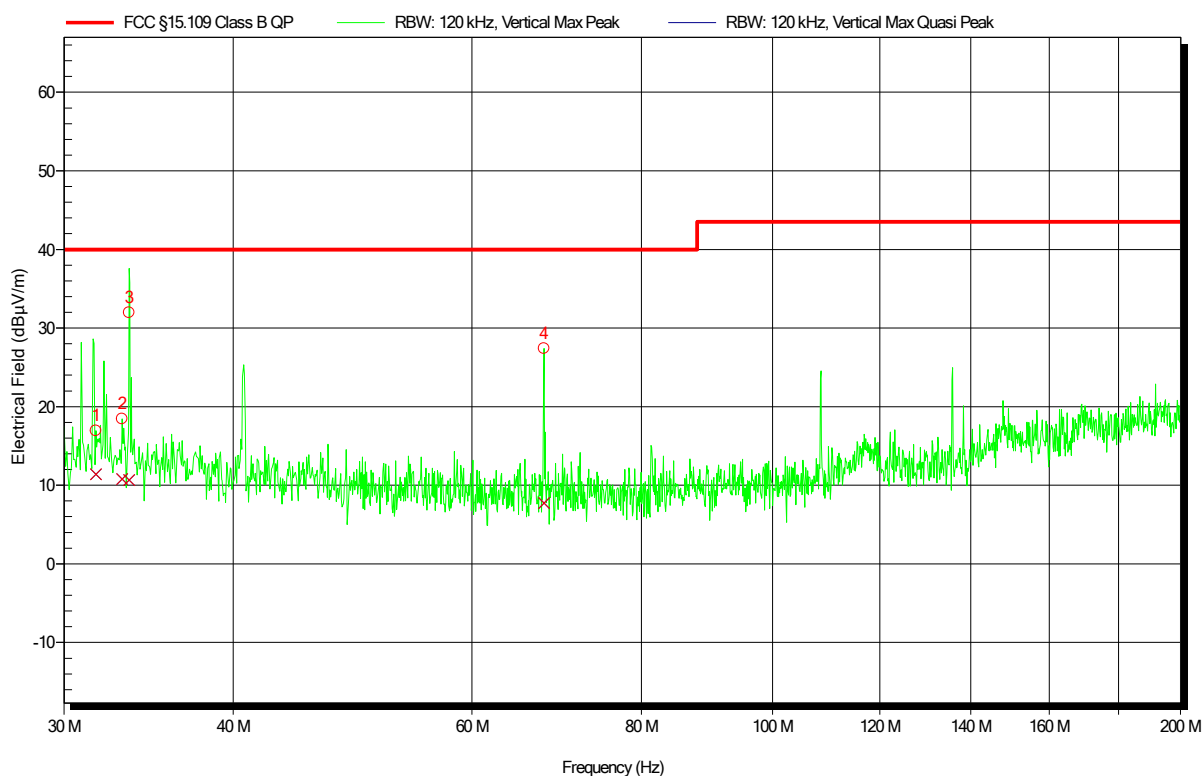


Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Angle	Height
1	33,123 MHz	10,76 dBμV/m	40 dBμV/m	-29,24 dB	Pass	0 Degree	1 m
2	53,479 MHz	6,28 dBμV/m	40 dBμV/m	-33,72 dB	Pass	0 Degree	1 m
3	151,294 MHz	10,35 dBμV/m	43,52 dBμV/m	-33,18 dB	Pass	0 Degree	1 m

Radiated emissions according to FCC 15B, ICES-003

Project Number: G0M-1912-8654
 Applicant: wh Münzprüfer Dietmar Trenner GmbH
 Model Description: Coin selector
 Model: EMP 500 v7 /CLB
 Test Sample ID: 27373
 Test Site: AC 1
 Operator: Mr. Engel
 Test Date: 2019-12-20
 Operating Conditions: ambient temperature: 23
 power input: 12 V DC
 Antenna: Rohde & Schwarz HK 116, Vertical
 Measurement Distance: 3 m
 Mode: 1
 Note:

Index 5

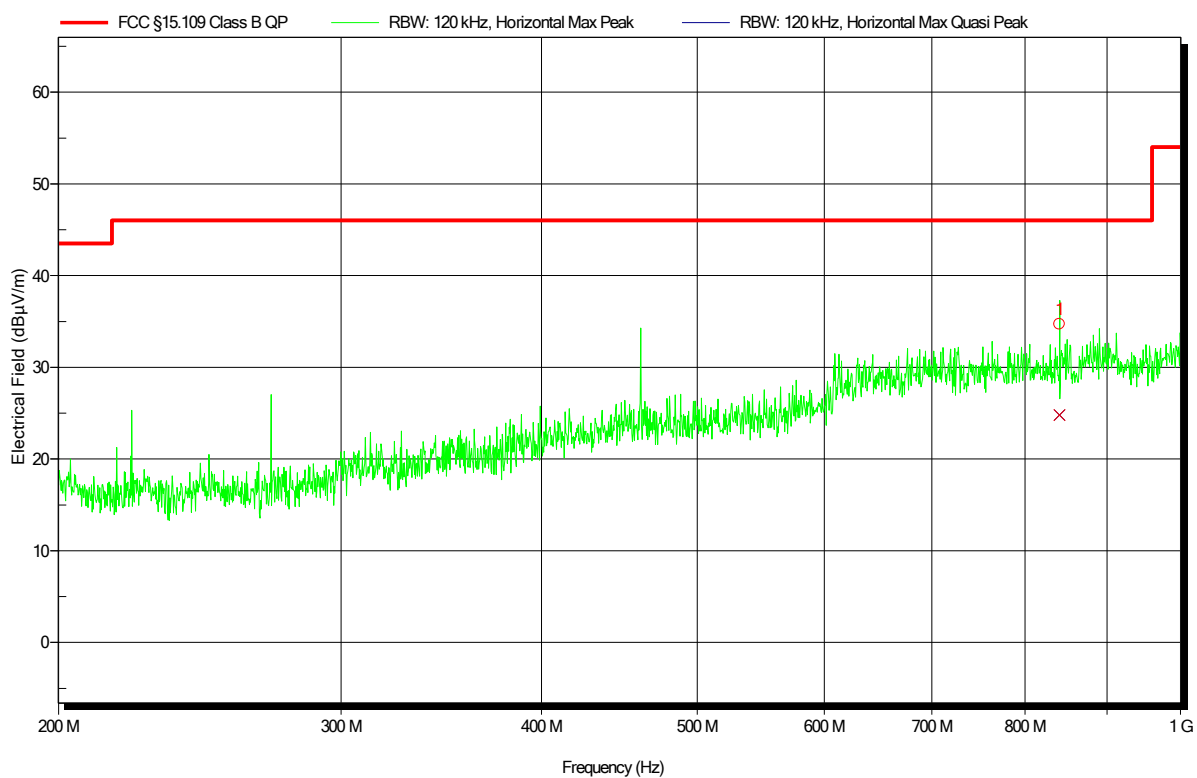


Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Angle	Height
1	31,68 MHz	11,38 dBµV/m	40 dBµV/m	-28,62 dB	Pass	0 Degree	1 m
2	33,114 MHz	10,79 dBµV/m	40 dBµV/m	-29,21 dB	Pass	0 Degree	1 m
3	33,51 MHz	10,65 dBµV/m	40 dBµV/m	-29,35 dB	Pass	0 Degree	1 m
4	67,81 MHz	7,73 dBµV/m	40 dBµV/m	-32,27 dB	Pass	0 Degree	1 m

Radiated emissions according to FCC 15B, ICES-003

Project Number: G0M-1912-8654
 Applicant: wh Münzprüfer Dietmar Trenner GmbH
 Model Description: Coin selector
 Model: EMP 500 v7 /CLB
 Test Sample ID: 27373
 Test Site: AC 1
 Operator: Mr. Engel
 Test Date: 2019-12-20
 Operating Conditions: ambient temperature: 23
 power input: 12 V DC
 Antenna: Rohde & Schwarz HL 223, Horizontal
 Measurement Distance: 3 m
 Mode: 1
 Note 1:

Index 7

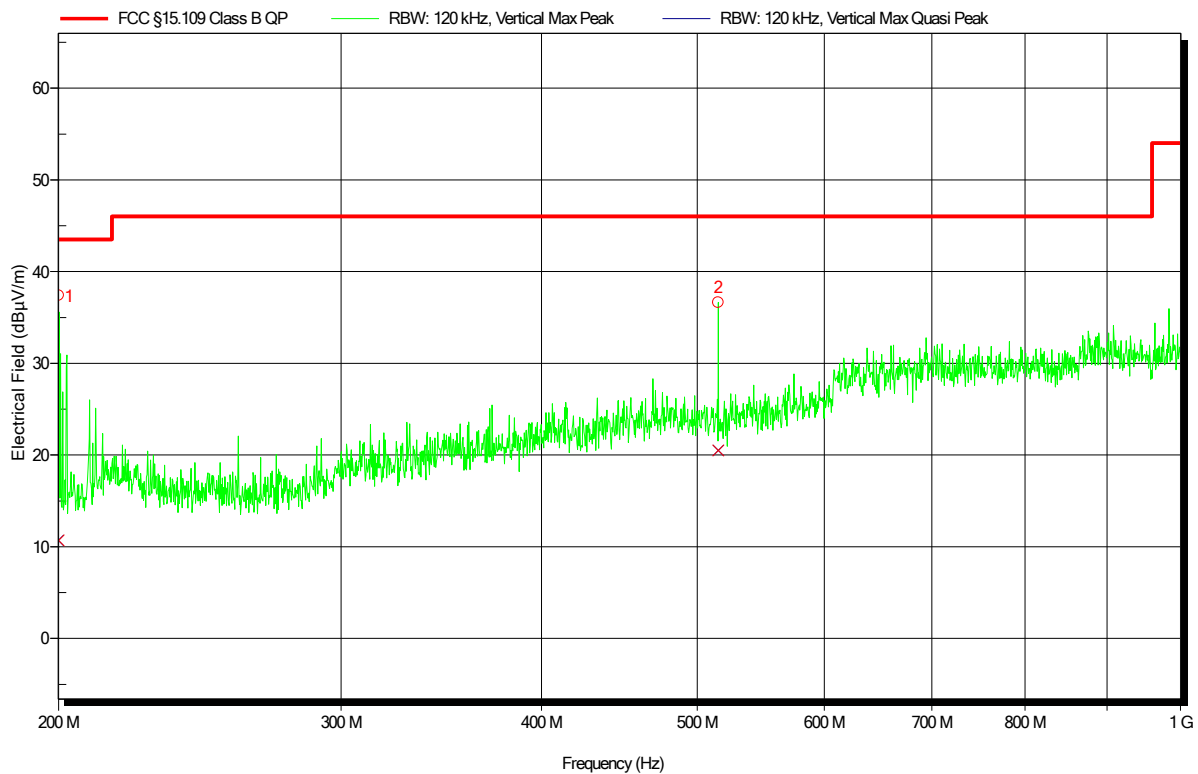


Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Angle	Height
1	840,757 MHz	24,79 dBµV/m	46,02 dBµV/m	-21,23 dB	Pass	0 Degree	1 m

Radiated emissions according to FCC 15B, ICES-003

Project Number: G0M-1912-8654
 Applicant: wh Münzprüfer Dietmar Trenner GmbH
 Model Description: Coin selector
 Model: EMP 500 v7 /CLB
 Test Sample ID: 27373
 Test Site: AC 1
 Operator: Mr. Engel
 Test Date: 2019-12-20
 Operating Conditions: ambient temperature: 23
 power input: 12 V DC
 Antenna: Rohde & Schwarz HL 223, Vertical
 Measurement Distance: 3 m
 Mode: 1
 Note:

Index 6

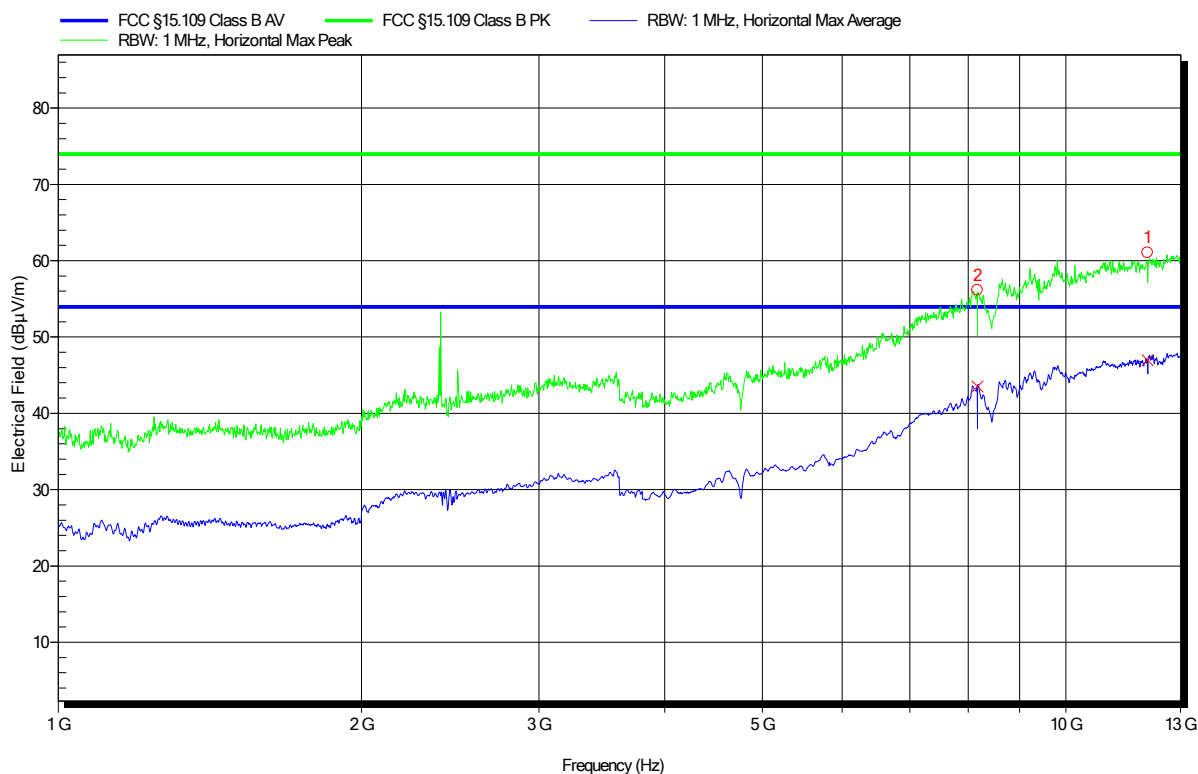


Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Angle	Height
1	200 MHz	10,71 dBµV/m	43,52 dBµV/m	-32,81 dB	Pass	0 Degree	1 m
2	515,281 MHz	20,49 dBµV/m	46,02 dBµV/m	-25,53 dB	Pass	0 Degree	1 m

Radiated emissions according to FCC 15B, ICES-003

Project Number: G0M-1912-8654
 Applicant: wh Münzprüfer Dietmar Trenner GmbH
 Model Description: Coin selector
 Model: EMP 500 v7 /CLB
 Test Sample ID: 27373
 Test Site: AC 1
 Operator: Mr. Engel
 Test Date: 2019-12-20
 Operating Conditions: ambient temperature: 23
 power input: 12 V DC
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement Distance: 3m
 Mode: 1
 Note:

Index 2



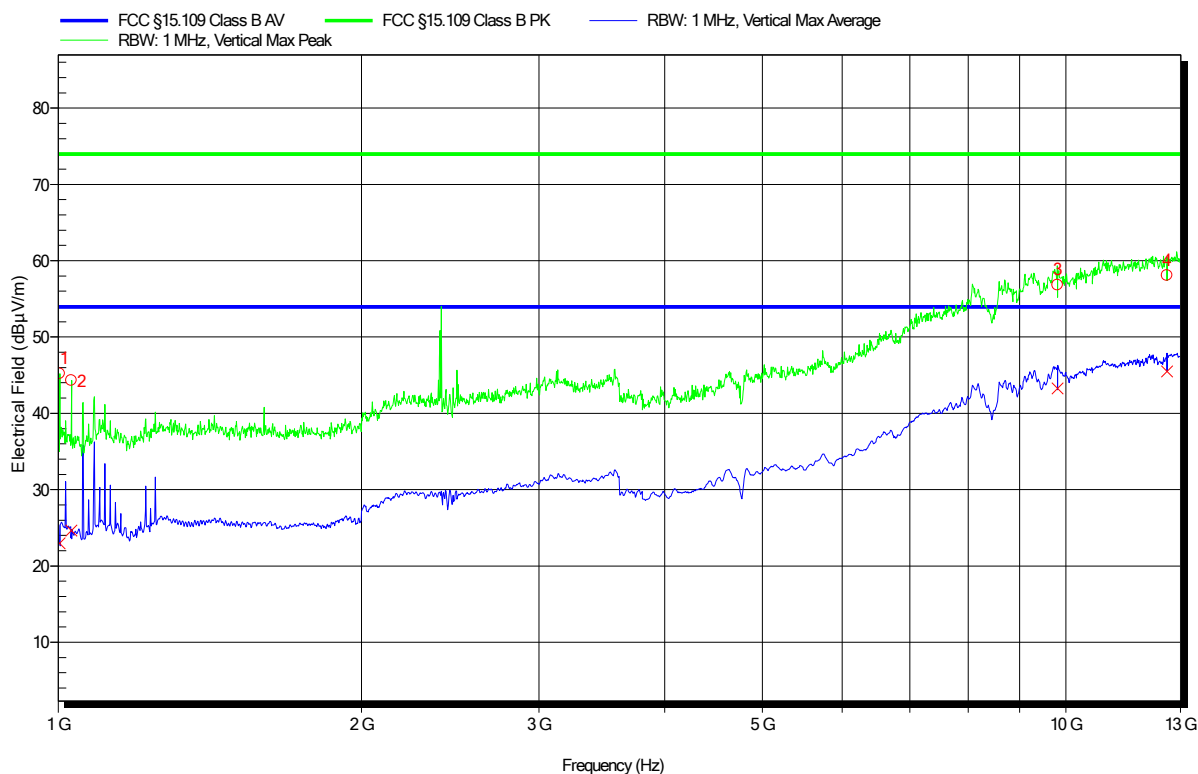
Peak Number	Frequency	Peak	Angle	Height
1	12,059 GHz	61,04 dBµV/m	0 Degree	1 m
2	8,171 GHz	56,15 dBµV/m	0 Degree	1 m

Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	Angle	Height
1	12,059 GHz	46,96 dBµV/m	53,98 dBµV/m	-7,02 dB	Pass	0 Degree	1 m
2	8,171 GHz	43,52 dBµV/m	53,98 dBµV/m	-10,45 dB	Pass	0 Degree	1 m

Radiated emissions according to FCC 15B, ICES-003

Project Number: G0M-1912-8654
 Applicant: wh Münzprüfer Dietmar Trenner GmbH
 Model Description: Coin selector
 Model: EMP 500 v7 /CLB
 Test Sample ID: 27373
 Test Site: AC 1
 Operator: Mr. Engel
 Test Date: 2019-12-20
 Operating Conditions: ambient temperature: 23
 power input: 12 V DC
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement Distance: 3m
 Mode: 1
 Note:

Index 1



Peak Number	Frequency	Peak	Angle	Height
1	1,004 GHz	45,21 dBμV/m	0 Degree	1.1 m
2	1,03 GHz	44,3 dBμV/m	0 Degree	1.1 m
3	9,815 GHz	56,83 dBμV/m	0 Degree	1.1 m
4	12,605 GHz	58,07 dBμV/m	0 Degree	1.1 m

Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	Angle	Height
1	1,004 GHz	22,98 dBμV/m	53,98 dBμV/m	-31 dB	Pass	0 Degree	1.1 m
2	1,03 GHz	24,63 dBμV/m	53,98 dBμV/m	-29,35 dB	Pass	0 Degree	1.1 m
3	9,815 GHz	43,26 dBμV/m	53,98 dBμV/m	-10,72 dB	Pass	0 Degree	1.1 m
4	12,605 GHz	45,48 dBμV/m	53,98 dBμV/m	-8,5 dB	Pass	0 Degree	1.1 m

Test Report No.: G0M-1912-8654-EF0115B-V01

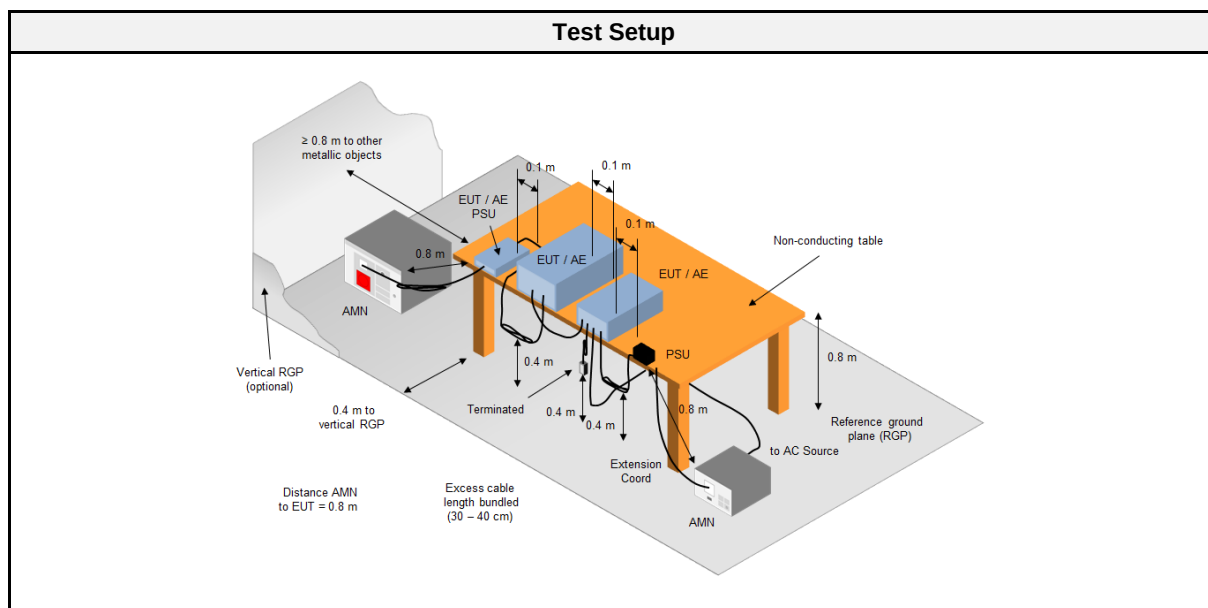
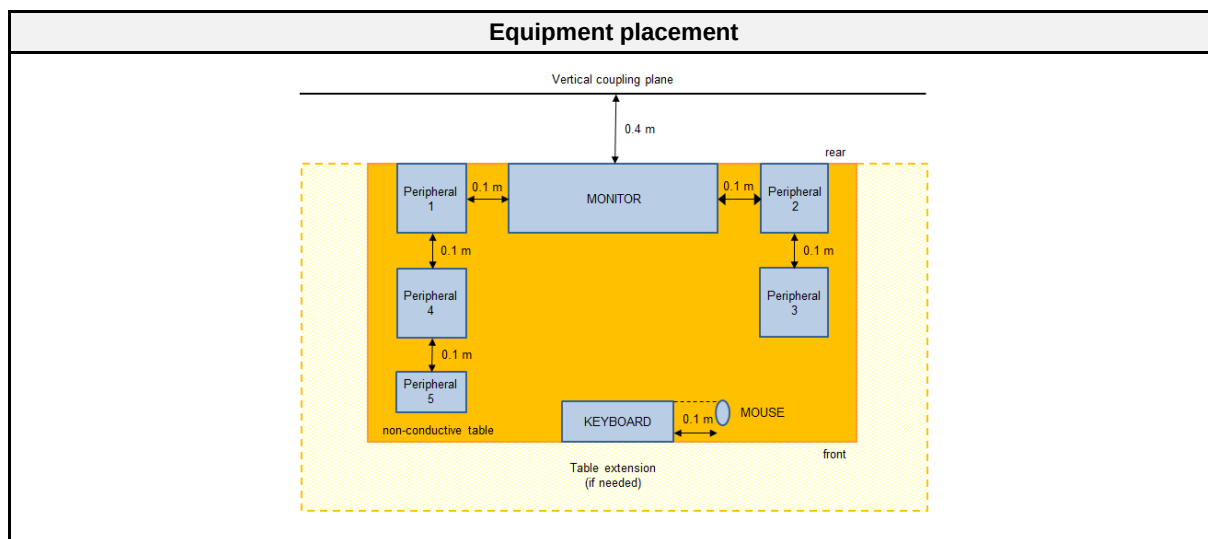
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

2.2 Test Conditions and Results - Conducted emissions acc. to ANSI C63.4

2.2.1 Information

Test Information	
Reference	FCC 15.107, ICES-003, 8, 6.2
Reference method	ANSI C63.4:2014 Section 12
Measurement range	150 kHz to 30 MHz
Equipment class	Class B
Equipment type	Table top
Temperature [°C]	23
Humidity [%]	33
Operator	Manuel Engel
Date	2019-12-20

2.2.2 Setup



2.2.3 Equipment

Test Software			
Description	Manufacturer	Name	Version
EMC Software	DARE Instruments	Radimation	2016.1.10

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
AMN	R&S	ESH3-Z5	EF00036	2019-07	2021-07
Pulse Limiter	R&S	ESH3-Z2	EF01063	2019-07	2020-07
EMI Test Receiver	R&S	ESR 7	EF00943	2019-10	2020-10
Programmable AC Source	Chroma ATE Inc.	61604	EF01068	2019-07	2020-07
Climatic Sensor	Embedded Data Systems, LLC.	2800100000254 17E	EF01054	2019-05	2020-05

2.2.4 Procedure

Exploratory measurement
1. The EUT was placed on a non conductive table 0.8 m above the reference ground plane and 0.4 m away from the vertical conducting plane (ANSI C63.4: 2014 item 7.3.1) 2. The power cord that is normally supplied or recommended by the manufacturer was connected to the LISN. 3. The distance between the outer edge of the EUT and the LISN shall be set to 0.8 m. A longer power cord shall be bundled to this length (bundling shall not exceed 40 cm in length). 4. The LISN measurement port was connected to a measurement receiver 5. I/O cables were bundled not longer than 0.4 m 6. Measurement was performed in the frequency range 0.15 – 30MHz on each current-carrying conductor 7. To maximize the emissions the cable positions were manipulated 8. The worst configuration of EUT and cables is shown on a test setup picture at item 1.3

Final measurement
1. The EUT was placed on a non conductive table 0.8 m above the reference ground plane and 0.4 m away from the vertical conducting plane (ANSI C63.4: 2014 item 7.3.1) 2. The power cord that is normally supplied or recommended by the manufacturer was connected to the LISN. 3. The distance between the outer edge of the EUT and the LISN shall be set to 0.8 m. A longer power cord shall be bundled to this length (bundling shall not exceed 40 cm in length). 4. The LISN measurement port was connected to a measurement receiver 5. The EUT and cable arrangement were based on the exploratory measurement results 6. The test data of the worst-case conditions were recorded and shown on the next pages

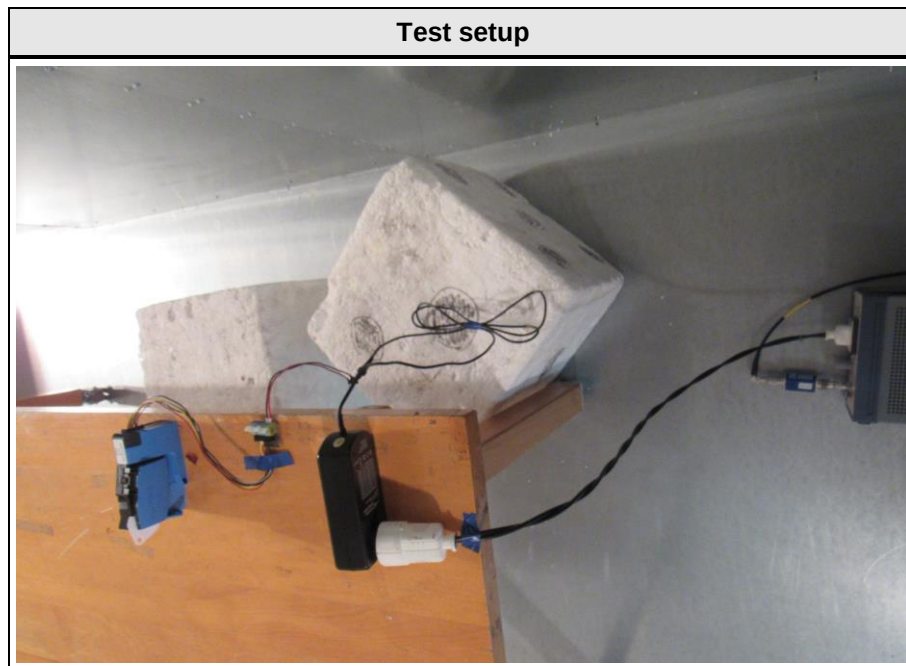
2.2.5 Limits

Class B		
Frequency [MHz]	Quasi-peak Limit [dBμV]	Average Limit [dBμV]
0.15 - 0.5	66 - 56 *	56 - 46 *
0.5 - 5	56	46
5 - 30	60	50
* Decreases with the logarithm of the frequency		

2.2.6 Results

AC power line conducted emissions					
Port	Coupling	Operational mode	EUT Configuration	Verdict	Remark
Port 1	AMN	1	2	PASS	

2.2.7 Setup Photos

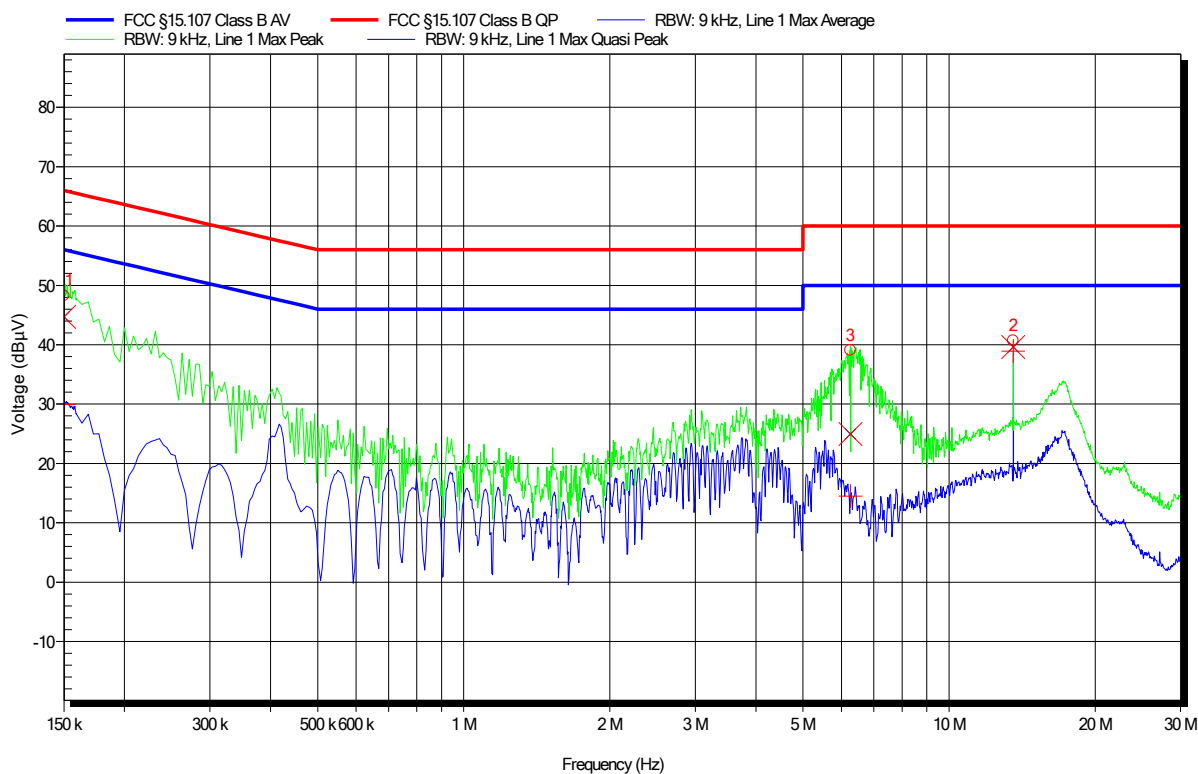


2.2.8 Records

Conducted emissions at the mains power port according to FCC 15B, ICES-003

Project Number: G0M-1912-8654
 Applicant: wh Münzprüfer Dietmar Trenner GmbH
 Model Description: Coin selector
 Model: EMP 500 v7 /CLB
 Test Sample ID: 27373
 Test Site: SR 1
 Operator: Mr. Engel
 Test Date: 2019-12-20
 Operating Conditions: ambient temperature: 23
 power input: 120 V 60 Hz
 LISN: ESH3-Z5 (L)
 Mode: 1
 Applied to Port: AC Mains
 Note:

Index 8



Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	LISN
1	150 kHz	44,7 dBμV	66 dBμV	-21,3 dB	Pass	Line 1
2	13,561 MHz	39,6 dBμV	60 dBμV	-20,4 dB	Pass	Line 1
3	6,262 MHz	24,96 dBμV	60 dBμV	-35,04 dB	Pass	Line 1

Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	150 kHz	29,93 dBμV	56 dBμV	-26,07 dB	Pass	Line 1
2	13,561 MHz	38,92 dBμV	50 dBμV	-11,08 dB	Pass	Line 1
3	6,262 MHz	14,46 dBμV	50 dBμV	-35,54 dB	Pass	Line 1

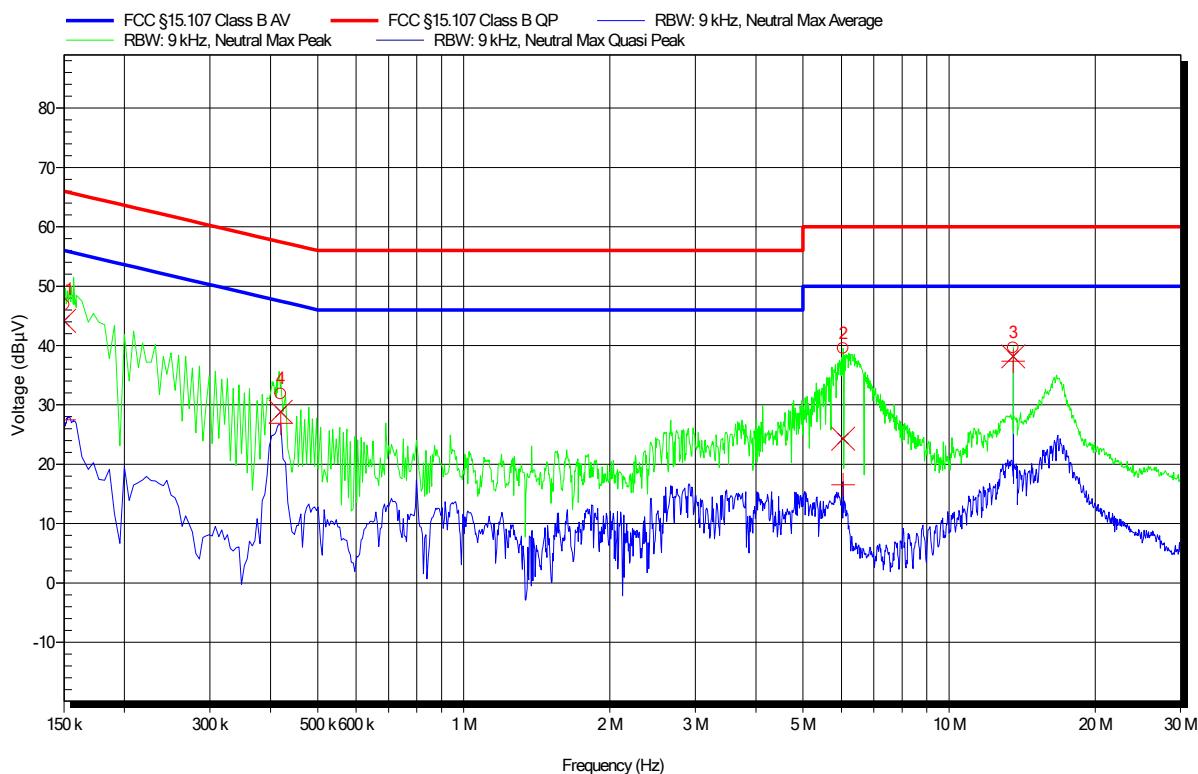
Test Report No.: G0M-1912-8654-EF0115B-V01

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Conducted emissions at the mains power port according to FCC 15B, ICES-003

Project Number: G0M-1912-8654
 Applicant: wh Münzprüfer Dietmar Trenner GmbH
 Model Description: Coin selector
 Model: EMP 500 v7 /CLB
 Test Sample ID: 27373
 Test Site: SR 1
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 Test Date: 2019-12-20
 Operating Conditions: ambient temperature: 23
 power input: 120 V 60 Hz
 LISN: ESH3-Z5 (N)
 Mode: 1
 Applied to Port: AC Mains
 Note:

Index 9



Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	LISN
1	150 kHz	44,16 dBμV	66 dBμV	-21,84 dB	Pass	Neutral
2	6,048 MHz	24,28 dBμV	60 dBμV	-35,72 dB	Pass	Neutral
3	13,561 MHz	38,17 dBμV	60 dBμV	-21,83 dB	Pass	Neutral
4	420 kHz	28,85 dBμV	57,45 dBμV	-28,6 dB	Pass	Neutral

Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	150 kHz	27,51 dBμV	56 dBμV	-28,49 dB	Pass	Neutral
2	6,048 MHz	16,54 dBμV	50 dBμV	-33,46 dB	Pass	Neutral
3	13,561 MHz	37,34 dBμV	50 dBμV	-12,66 dB	Pass	Neutral
4	420 kHz	26,88 dBμV	47,45 dBμV	-20,57 dB	Pass	Neutral

Test Report No.: G0M-1912-8654-EF0115B-V01

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany