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Test report authorized:

Christoph Schneider Lab Manager Radio Communications & EMC

Test performed:

p.o.

Tobias Wittenmeier Testing Manager Radio Communications & EMC



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2 General information

2.1 Notes and disclaimer

The test results of this test report relate exclusively to the test item specified in this test report. CTC advanced GmbH does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item.

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This test report replaces the test report with the number 1-1119/16-01-09-A and dated 2017-04-12

2.2 Application details

Date of receipt of order:	2017-01-26
Date of receipt of test item:	2017-01-30
Start of test:	2017-02-03
End of test:	2017-03-24
Person(s) present during the test:	-/-

2.3 Test laboratories sub-contracted

None



3 Test standard/s and references

Test standard	Date	Description
47 CFR Part 15		Title 47 of the Code of Federal Regulations; Chapter I; Part 15 - Radio frequency devices
RSS - 210 Issue 9	August 2016	Spectrum Management and Telecommunications Radio Standards Specification - Licence-Exempt Radio Apparatus: Category I Equipment
RSS - Gen Issue 4	November 2014	Spectrum Management and Telecommunications Radio Standards Specifications - General Requirements and Information for the Certification of Radio Apparatus
Guidance	Version	Description
ANSI C63.4-2014 ANSI C63.10-2013	-/- -/-	American national standard for methods of measurement of radio- noise emissions from low-voltage electrical and electronic equipment in the range of 9 kHz to 40 GHz American national standard of procedures for compliance testing of unlicensed wireless devices

4 Test environment

Temperature	:	T _{nom} T _{max} T _{min}	+22 °C during room temperature tests No tests under extreme conditions required No tests under extreme conditions required
Relative humidity content	:		55 %
Barometric pressure	:		1021 hpa
Power supply	:	V _{nom} V _{max} V _{min}	3.70 V DC by Li-ion battery No tests under extreme conditions required No tests under extreme conditions required

5 Test item

5.1 General description

Kind of test item :	Remote Controller
Type identification :	easyTek
HMN :	-/-
PMN :	EasyTek B
HVIN :	EasyTek B
FVIN :	-/-
S/N serial number :	ZN00020
HW hardware status :	P1
FW firmware status :	5.0
Frequency band :	3.28 MHz
Type of radio transmission : Use of frequency spectrum :	Modulated carrier
Type of modulation :	ASK
Number of channels :	1
Antenna :	External loop neck antenna
Power supply :	3.70 V DC by Li-ion battery
Temperature range :	22 °C

5.2 Additional information

The content of the following annexes is defined in the QA. It may be that not all of the listed annexes are necessary for this report, thus some values in between may be missing.

Test setup- and EUT-photos are included in test report:

1-1119/16-01-01_AnnexA 1-1119/16-01-01_AnnexB 1-1119/16-01-01_AnnexD



6 Description of the test setup

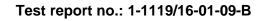
Typically, the calibrations of the test apparatus are commissioned to and performed by an accredited calibration laboratory. The calibration intervals are determined in accordance with the DIN EN ISO/IEC 17025. In addition to the external calibrations, the laboratory executes comparison measurements with other calibrated test systems or effective verifications. Weekly chamber inspections and range calibrations are performed. Where possible, RF generating and signaling equipment as well as measuring receivers and analyzers are connected to an external high-precision 10 MHz reference (GPS-based or rubidium frequency standard).

In order to simplify the identification of the equipment used at some special tests, some items of test equipment and ancillaries can be provided with an identifier or number in the equipment list below (Lab/Item).

Agenda: Kind of Calibration

- k calibration / calibrated
- ne not required (k, ev, izw, zw not required)
- ev periodic self verification
- Ve long-term stability recognized
- vlkl! Attention: extended calibration interval
- NK! Attention: not calibrated

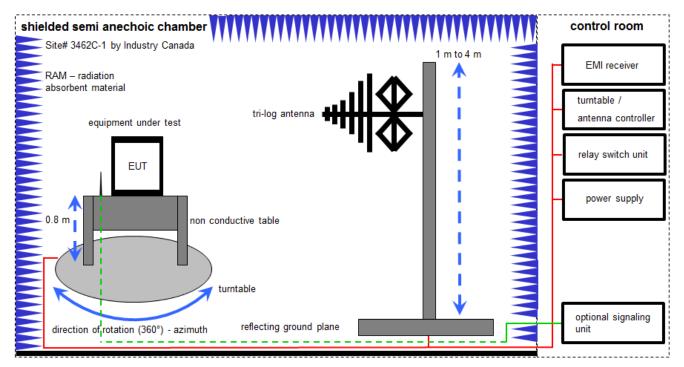
- EK limited calibration
- zw cyclical maintenance (external cyclical maintenance)
- izw internal cyclical maintenance
- g blocked for accredited testing
- *) next calibration ordered / currently in progress





6.1 Shielded semi anechoic chamber

The radiated measurements are performed in vertical and horizontal plane in the frequency range from 9 kHz to 1 GHz in semi-anechoic chambers. The EUT is positioned on a non-conductive support with a height of 0.80 m above a conductive ground plane that covers the whole chamber. The receiving antennas are conform to specifications ANSI C63. These antennas can be moved over the height range between 1.0 m and 4.0 m in order to search for maximum field strength emitted from EUT. The measurement distances between EUT and receiving antennas are indicated in the test setups for the various frequency ranges. For each measurement, the EUT is rotated in all three axes until the maximum field strength is received. The wanted and unwanted emissions are received by spectrum analyzers where the detector modes and resolution bandwidths over various frequency ranges are set according to requirement ANSI C63.



Measurement distance: tri-log antenna 10 meter

FS = UR + CL + AF

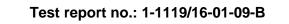
(FS-field strength; UR-voltage at the receiver; CL-loss of the cable; AF-antenna factor)

Example calculation:

 $FS [dB\mu V/m] = 12.35 [dB\mu V/m] + 1.90 [dB] + 16.80 [dB/m] = 31.05 [dB\mu V/m] (35.69 \mu V/m)$

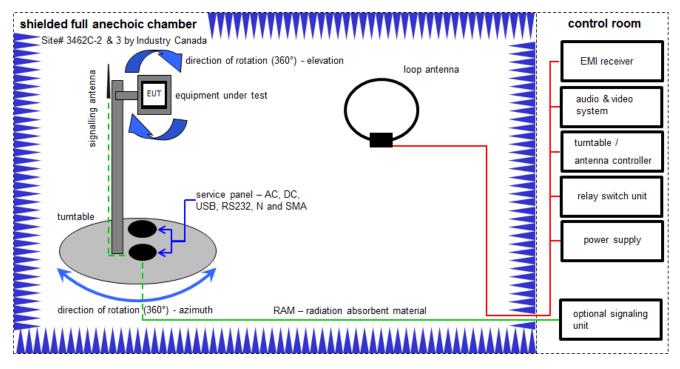
Equipment table:

No.	Lab / Item	Equipment	Туре	Manufact.	Serial No.	INV. No.	Kind of Calibration	Last Calibration	Next Calibration
1	A	Switch-Unit	3488A	HP	2719A14505	30000368	ev	-/-	-/-
2	A	EMI Test Receiver	ESCI 3	R&S	100083	300003312	k	08.03.2016	08.03.2017
3	А	Analyzer-Reference- System (Harmonics and Flicker)	ARS 16/1	SPS	A3509 07/0 0205	300003314	Ve	02.02.2016	02.02.2018
4	A	Antenna Tower	Model 2175	ETS-Lindgren	64762	300003745	izw	-/-	-/-
5	А	Positioning Controller	Model 2090	ETS-Lindgren	64672	300003746	izw	-/-	-/-
6	А	Turntable Interface- Box	Model 105637	ETS-Lindgren	44583	300003747	izw	-/-	-/-
7	A	TRILOG Broadband Test-Antenna 30 MHz - 3 GHz	VULB9163	Schwarzbeck	295	300003787	k	25.04.2016	25.04.2018
8	А	Spectrum-Analyzer	FSU26	R&S	200809	300003874	k	31.01.2017	30.01.2018





6.2 Shielded fully anechoic chamber



Measurement distance: loop antenna 3 meter

FS = UR + CA + AF

(FS-field strength; UR-voltage at the receiver; CA-loss of the signal path; AF-antenna factor)

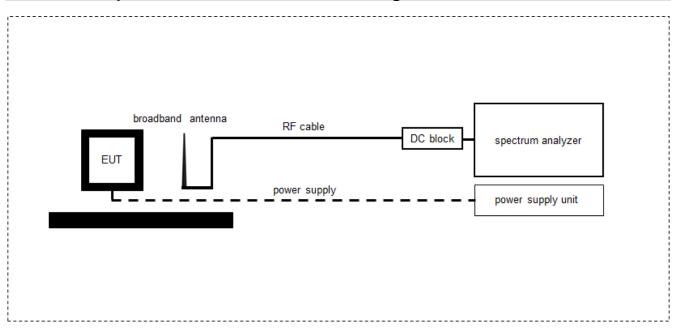
Example calculation:

 $FS [dB\mu V/m] = 40.0 [dB\mu V/m] + (-35.8) [dB] + 32.9 [dB/m] = 37.1 [dB\mu V/m] (71.61 \mu V/m)$

Equipment table:

No.	Lab / Item	Equipment	Туре	Manufact.	Serial No.	INV. No.	Kind of Calibration	Last Calibration	Next Calibration
1	Α	Anechoic chamber	FAC 3/5m	MWB / TDK	87400/02	300000996	ev	-/-	-/-
2	Α	Switch / Control Unit	3488A	HP	*	300000199	ne	-/-	-/-
3	А	Active Loop Antenna 10 kHz to 30 MHz	6502	EMCO/2	8905-2342	300000256	k	24.06.2015	24.06.2017
4	А	EMI Test Receiver 20Hz- 26,5GHz	ESU26	R&S	100037	300003555	k	31.01.2017	30.01.2018
5	А	4U RF Switch Platform	L4491A	Agilent Technologies	MY50000037	300004509	ne	-/-	-/-

6.3 Test setup for normalized measurement configurations



FS = UR + CA + AF

(FS-field strength; UR-voltage at the receiver; CA-loss of the signal path; AF-antenna factor)

Equipment table:

No.	Lab / Item	Equipment	Туре	Manufact.	Serial No.	INV. No.	Kind of Calibration	Last Calibration	Next Calibration
1	A	HF-Cable 1 m	BPS-1551-394-BPS	Insulated Wire	080492	300001713	g	-/-	-/-
2	A	EMI Test Receiver 9 kHz - 3 GHz incl. Preselector	ESPI3	R&S	101713	300004059	k	27.01.2017	26.01.2018
3	Α	Loop Antenna	ESPI3	ZEG TS Steinfurt	101713	400001208	ev	-/-	-/-



7 Sequence of testing

7.1 Sequence of testing radiated spurious 9 kHz to 30 MHz

Setup

- The equipment is set up to simulate normal operation mode as described in the user manual or defined by the manufacturer.
- If the EUT is a tabletop system, a 2-axis positioner with 1.5 m height is used.
- If the EUT is a floor standing device, it is placed directly on the turn table.
- Auxiliary equipment and cables are positioned to simulate normal operation conditions as described in ANSI C 63.4.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- Measurement distance is 3 m (see ANSI C 63.4) see test details.
- EUT is set into operation.

Premeasurement

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna height is 1.5 m.
- At each turntable position the analyzer sweeps with positive-peak detector to find the maximum of all emissions.

Final measurement

- Identified emissions during the premeasurement are maximized by the software by rotating the turntable from 0° to 360°. In case of the 2-axis positioner is used the elevation axis is also rotated from 0° to 360°.
- The final measurement is done in the position (turntable and elevation) causing the highest emissions with quasi-peak (as described in ANSI C 63.4).
- Final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. A plot with the graph of the premeasurement and the limit is stored.

7.2 Sequence of testing radiated spurious 30 MHz to 1 GHz

Setup

- The equipment is set up to simulate normal operation mode as described in the user manual or defined by the manufacturer.
- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables are positioned to simulate normal operation conditions as described in ANSI C 63.4.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- Measurement distance is 10 m or 3 m (see ANSI C 63.4) see test details.
- EUT is set into operation.

Premeasurement

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna is polarized vertical and horizontal.
- The antenna height changes from 1 m to 3 m.
- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement

- The final measurement is performed for at least six highest peaks according to the requirements of the ANSI C63.4.
- Based on antenna and turntable positions at which the peak values are measured the software maximize the peaks by changing turntable position ± 45° and antenna height between 1 and 4 m.
- The final measurement is done with quasi-peak detector (as described in ANSI C 63.4).
- Final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit are recorded. A plot with the graph of the premeasurement with marked maximum final results and the limit is stored.

8 Measurement uncertainty

Measurement uncertainty							
Test case	Uncertainty						
Occupied bandwidth	± used RBW						
Field strength of the fundamental	± 3 dB						
Field strength of the harmonics and spurious	± 3 dB						
Receiver spurious emissions and cabinet radiations	± 3 dB						
Conducted limits	± 2.6 dB						

9 Summary of measurement results

\square	No deviations from the technical specifications were ascertained
	There were deviations from the technical specifications ascertained
	This test report is only a partial test report. The content and verdict of the performed test cases are listed below.

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CTC I

TC Identifier	Description	Verdict	Date	Remark
RF-Testing	CFR Part 15 RSS 210 Issue 9 RSS Gen Issue 4	See table!	2017-04-27	-/-

Test specification clause	Test case	Temperature conditions	Power source conditions	С	NC	NA	NP	Remark
RSS Gen Issue 4 (6.6)	Occupied bandwidth	Nominal	Nominal	\boxtimes				-/-
§ 15.209	Field strength of the fundamental	Nominal	Nominal	\boxtimes				-/-
§ 15.209 RSS Gen Issue 4 (6.13)	Field strength of the harmonics and spurious	Nominal	Nominal	\boxtimes				-/-
§ 15.109	Receiver spurious emissions and cabinet radiations	Nominal	Nominal	\boxtimes				-/-
§15.107 §15.207	Conducted limits	Nominal	Nominal			\boxtimes		EUT ceases transmitting after connecting the charger
								Ŭ

Note: NA = Not applicable; NP = Not performed; C = Compliant; NC = Not compliant

10 Additional comments

Special test descriptions: None

Configuration descriptions: None



11 Measurement results

11.1 Occupied bandwidth

Measurement:

The emission bandwidth (x dB) is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated x dB below the maximum in-band spectral density of the modulated signal.

Measurement parameters			
Detector:	Peak		
Resolution bandwidth:	1 % – 5 % of the occupied bandwidth		
Video bandwidth:	≥ 3x RBW		
Trace mode:	Max hold		
Analyser function:	99 % / 75 % power function		
Used test setup:	See sub clause 6.3A		
Measurement uncertainty:	See sub clause 8		

Limit:

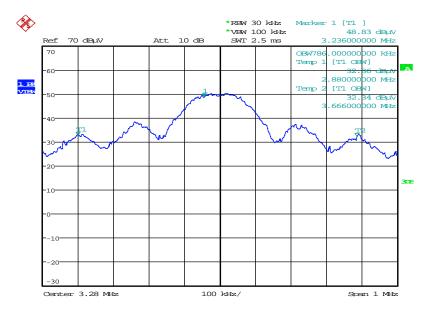
IC
for RSP-100 test report coversheet only

Result:

99% emission bandwidth
786 kHz
75% emission bandwidth
146 kHz

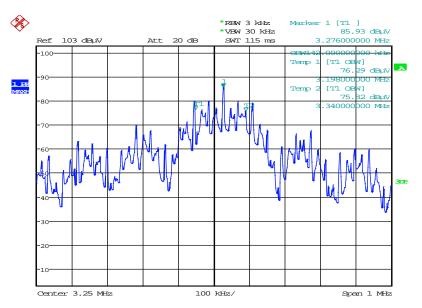
Plot:





Date: 25.JAN.2017 10:40:07





Date: 24.MAR.2017 11:07:39

11.2 Field strength of the fundamental

Measurement:

The maximum detected field strength for the carrier signal.

Measurement parameters			
Detector:	Quasi peak / peak (worst case)		
Resolution bandwidth:	9 kHz		
Video bandwidth:	≥ 3x RBW		
Trace mode:	Max hold		
Used test setup	See sub clause 6.2A		
Measurement uncertainty:	See sub clause 8		

Limit:

FCC & IC				
Frequency	Field strength	Measurement distance		
(MHz)	(dBµV/m)	(m)		
1.705 - 30.0	29.5	30		

Recalculation:

According to ANSI C63.10				
Frequency	Formula	Correction value		
3.28 MHz	$\begin{split} FS_{limit} &= FS_{max} - 40 \log \left(\frac{d_{\textit{leartfeld}}}{d_{\textit{meartred}}} \right) - 20 log(\frac{d_{\textit{limit}}}{d_{\textit{meartred}}}) \\ FS_{\textit{imit}} & \text{is the calculation of field strength at the limit distance,} \\ expressed in dB_{\mu}V/m \\ FS_{max} & \text{is the measured field strength, expressed in dB_{\mu}V/m} \\ d_{\textit{neartfeld}} & \text{is the } \lambda 2\pi \text{ distance} \\ d_{\textit{measure}} & \text{is the ofference limit distance} \\ d_{\textit{imit}} & \text{is the ofference limit distance} \\ d_{\textit{imit}} & \text{is the ofference limit distance} \\ \end{split}$	-33.72 (3m to 30 m)		

Result:

Field strength of the fundamental						
Frequency	3.28	3.28 MHz				
Distance	@ 3 m @ 30 m					
Measured / calculated value (peak measurement)	45.1 dBµV/m	11.4 dBµV/m				
Measured / calculated value (QP measurement)	42.2 dBµV/m	8.5 dBµV/m				

11.3 Field strength of the harmonics and spurious

Measurement:

The maximum detected field strength for the harmonics and spurious.

Measurement parameters			
Detector:	Quasi peak / average or		
Deleciol.	peak (worst case – pre-scan)		
	F < 150 kHz: 200 Hz		
Resolution bandwidth:	150 kHz < F < 30 MHz: 9 kHz		
	30 MHz < F < 1 GHz: 120 kHz		
	F < 150 kHz: 1 kHz		
Video bandwidth:	150 kHz < F < 30 MHz: 100 kHz		
	30 MHz < F < 1 GHz: 300 kHz		
Trace mode:	Max hold		
Used test setup:	9 kHz to 30 MHz: see sub clause 6.2A		
	30 MHz to 1 GHz: see sub clause 6.1A		
Measurement uncertainty:	See sub clause 8		

Limit:

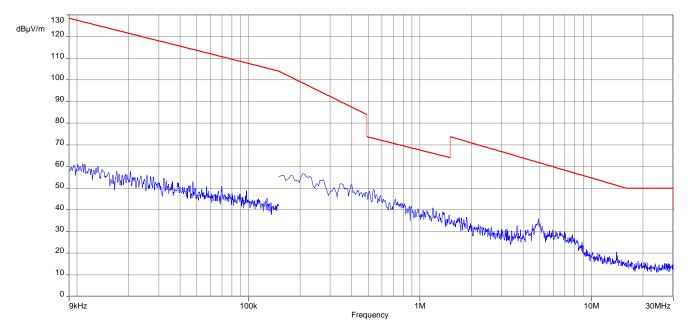
FCC & IC					
Frequency	Field strength	Measurement distance			
(MHz)	(dBµV/m)	(m)			
0.009 - 0.490	2400/F(kHz)	300			
0.490 - 1.705	24000/F(kHz)	30			
1.705 – 30	30 (29.5 dBµV/m)	30			
30 - 88	100 (40 dBµV/m)	3			
88 – 216	150 (43.5 dBµV/m)	3			
216 - 960	200 (46 dBµV/m)	3			

Result:

Detected emissions					
Frequency (MHz)	Detector	Resolution bandwidth (kHz)	Detected value		
All emissions were more than 10 dB below the limit.					

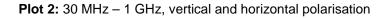


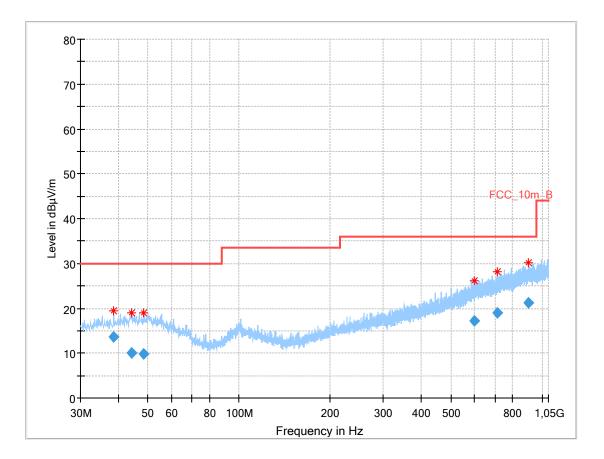
Plots:



Plot 1: 9 kHz - 30 MHz, magnetic emissions







Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
38.714250	13.55	30.00	16.45	1000.0	120.000	185.0	V	0.0	13.1
44.401500	9.96	30.00	20.04	1000.0	120.000	101.0	Н	314.0	13.6
48.448500	9.77	30.00	20.23	1000.0	120.000	101.0	٧	129.0	13.7
596.321250	17.27	36.00	18.73	1000.0	120.000	185.0	٧	326.0	20.6
709.492950	19.04	36.00	16.96	1000.0	120.000	100.0	V	349.0	21.8
898.944750	21.29	36.00	14.71	1000.0	120.000	185.0	V	81.0	24.2

11.4 Receiver spurious emissions and cabinet radiations

Measurement:

The maximum detected field strength for the spurious.

Measurement parameters				
Detector:	Quasi peak / average or			
Delector.	peak (worst case – pre-scan)			
	F < 150 kHz: 200 Hz			
Resolution bandwidth:	150 kHz < F < 30 MHz: 9 kHz			
	30 MHz < F < 1 GHz: 120 kHz			
	F < 150 kHz: 1 kHz			
Video bandwidth:	150 kHz < F < 30 MHz: 100 kHz			
	30 MHz < F < 1 GHz: 300 kHz			
Trace mode:	Max hold			
Used test setup	See sub clause 7.1A			
Measurement uncertainty:	See sub clause 8			

Limit:

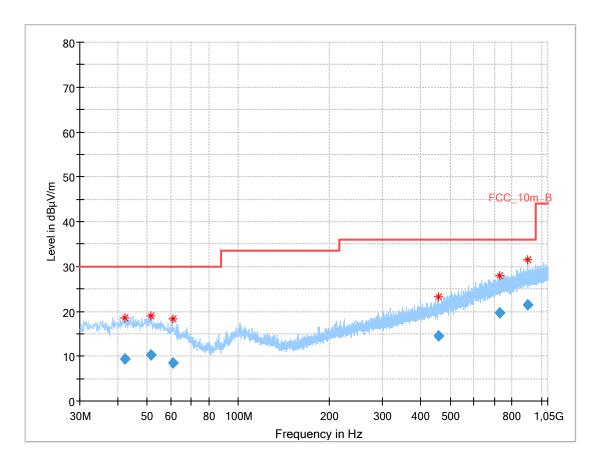
FCC & IC				
Frequency	Field strength	Measurement distance		
(MHz)	(dBµV/m)	(m)		
30 - 88	100 (40 dBµV/m)	3		
88 – 216	150 (43.5 dBµV/m)	3		
216 - 960	200 (46 dBµV/m)	3		

Result:

Detected emissions				
Frequency (MHz)	Detector	Resolution bandwidth (kHz)	Detected value	
See result table below the plot.				

Plots:





Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
42.345600	9.36	30.00	20.64	1000.0	120.000	101.0	Н	163.0	13.4
51.537450	10.26	30.00	19.74	1000.0	120.000	98.0	V	215.0	13.5
60.685050	8.46	30.00	21.54	1000.0	120.000	98.0	Н	236.0	11.7
458.098800	14.54	36.00	21.46	1000.0	120.000	185.0	Н	121.0	17.8
727.591950	19.57	36.00	16.43	1000.0	120.000	185.0	V	94.0	22.2
903.662550	21.35	36.00	14.65	1000.0	120.000	100.0	V	153.0	24.2



12 Observations

No observations except those reported with the single test cases have been made.

Annex A Document history

Version	Applied changes	Date of release
	Initial release	2017-03-24
A	Correction of HMN, PMN, HVIN, FVIN	2017-04-12
В	Correction of HMN, PMN, HVIN, FVIN	2017-04-27

Annex B Further information

<u>Glossary</u>

AVG	-	Average
DUT		
EMC	-	Electromagnetic Compatibility
EN	-	European Standard
EUT	-	Equipment under test
ETSI		European Telecommunications Standard Institute
FCC	_	Federal Communication Commission
FCC ID	-	Company Identifier at FCC
HW	-	Hardware
IC	-	Industry Canada
Inv. No.	-	•
N/A	-	Inventory number
	-	Not applicable
PP	-	Positive peak
QP	-	Quasi peak
S/N	-	Serial number
SW	-	Software
PMN	-	Product marketing name
HMN	-	Host marketing name
HVIN	-	Hardware version identification number
FVIN	-	Firmware version identification number
OBW		Occupied Bandwidth
OC		Operating Channel
OCW		Operating Channel Bandwidth
OOB		Out Of Band
000		Cat Cr Dana

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Annex C Accreditation Certificate

first page	last page
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Die Akkreditierungsurkunde gilt nur in Verbindung mit dem Bescheid vom 25.11.2016 mit der Akkreditierungsnummer D-PI-12076-01 und ist gültig bis 17.01.2018. Sie besteht aus diesem Deckblatt, der Rückseite des Deckblatts und der folgenden Anlage mit insgesamt 63 Seiten. Registrierungsnummer der Urkunde: D-PI-12076-01-01	im Zusammenhang mit der Vermanktung von Produkten (Abl. L218 vom 9. Juli 2008, S. 30). Die DAkk's ist Untereichnern der Autolitäteralen Abkommen zur gegenseitigen Anerkennung der European oc operation for Accorditation (EA), des International Accorditation Forum (IAF) und der International Laboratory Accerditation Cooperation (ILAC). Die Unterzeichner dieser Abkommen erkennen ihre Akkreditierungen gegenseitig an. Der aktuelle Stand der Mitgliedschaft kann folgenden Webseiten entnommen werden: EA: www.european-accreditation.org ILAC: www.ilac.rog ILAC: www.ilac.rog
Frankfurt, 25.11.2016 Im Aldrag Dig-ing. (Brt Ralf Egner Aberlungsloter	

Note:

The current certificate including annex can be received on request.