

Auftrags-Nr.: Seite 1 von 22 154157285 50048015 001 Prüfbericht-Nr.: Page 1 of 22 Order No.: Test Report No.: Auftragsdatum: 2016.04.03 Kunden-Referenz-Nr.: 639393 Order date: Client Reference No .: **ID-RF SAS** Auftraggeber: 121 RUE DES HETRES, ST CYR EN VAL, France Client: **Z-Wave Controller** Prüfgegenstand: Test item: Bezeichnung / Typ-Nr.: CRC-3US-6 Identification / Type No.: FCC ID: 2AIHGCRC-3US-6 IC: 21504-CRC3US6 Complete test Auftrags-Inhalt: Order content: FCC CFR47 Part 15, Subpart C Section 15.249 Prüfgrundlage: Test specification: ANSI C63.10: 2013 RSS-Gen Issue 4, November 2014 RSS-210 Issue 8, December 2010 2016.03.30 Wareneingangsdatum: Date of receipt: Prüfmuster-Nr.: A000351921-002 Test sample No.: 2016.04.07 to 2016.04.10 Prüfzeitraum: Testing period: Ort der Prüfung: MRT Technology(Suzhou) Co., Ltd. Place of testing: TÜV Rheinland (Shanghai) Prüflaboratorium: Co., Ltd. Testing laboratory: **Pass** Prüfergebnis*: Test result*: kontrolliert von I reviewed by: geprüft von I tested by: Elliot Zhang / Senior Project Engineer Shi Li / Section Manager 2016.12.20 2016.12.19

Unterschrift Name / Stellung Datum Name / Position Signature Date

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	des Prüfgeger of the test iten	nstandes bei An n at delivery:	lieferung:		ständig und unbescl lete and undamage	
* Legende: Legend:	1 = sehr gut P(ass) = entspricht 1 = very good	2 = gut o.g. Prüfgrundlage(n) 2 = good m. test specification(s)	3 = satisfactory	nicht o.g. Prüfgrundlage(n) test specification(s)	4 = ausreichend N/A = nicht anwendbar 4 = sufficient N/A = not applicable	5 = mangelhaft N/T = nicht getestet 5 = poor N/T = not tested

Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.

This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.



Prüfbericht - Nr.: 50048015 001

Seite 2 von 22 Page 2 of 22

Test Report No.

TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 FIELD STRENGTH OF FUNDAMENTAL EMISSIONS

RESULT: Pass

5.1.3 RADIATED EMISSIONS

RESULT: Pass

5.1.4 20DB BANDWIDTH AND 99% BANDWIDTH

RESULT: Pass

5.1.5 RF EXPOSURE STATEMENT

RESULT: Pass



_	fbericht - Nr.: 50048015 001 Report No.	Seite 3 von 22 Page 3 of 22
Со	ntents	
1.	GENERAL REMARKS	4
1.1	COMPLEMENTARY MATERIALS	4
2.	TEST SITES	4
2.1	TEST FACILITIES	4
2.2	LIST OF TEST AND MEASUREMENT INSTRUMENTS	5
2.3	TRACEABILITY	6
2.4	CALIBRATION	6
2.5	MEASUREMENT UNCERTAINTY	6
3.	GENERAL PRODUCT INFORMATION	7
3.1	PRODUCT FUNCTION AND INTENDED USE	7
3.2	RATINGS AND SYSTEM DETAILS	7
3.3	INDEPENDENT OPERATION MODES	7
3.4	NOISE GENERATING AND NOISE SUPPRESSING PARTS	7
3.5	SUBMITTED DOCUMENTS	7
4.	TEST SET-UP AND OPERATION MODES	8
4.1	PRINCIPLE OF CONFIGURATION SELECTION	8
4.2	TEST OPERATION AND TEST SOFTWARE	8
4.3	SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT	8
4.4	COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE	8
5.	TEST RESULTS	9
5.1 5.1 5.1	TRANSMITTER REQUIREMENT & TEST SUITES 1.1 Antenna Requirement	9 11 17 19
6.	LIST OF TABLES	22
7.	LIST OF FIGURES	22



 Prüfbericht - Nr.:
 50048015 001
 Seite 4 von 22

 Test Report No.
 Page 4 of 22

1. General Remarks

1.1 Complementary Materials

Null.

2. Test Sites

2.1 Test Facilities

MRT Technology (Suzhou) Co., Ltd.

D8 Building, Youxin Industrial Park, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China

The used test equipment is in accordance with CISPR 16 for measurement of radio interference.

The Federal Communications Commission has reviewed the technical characteristics of the radiated and conducted emission facility, and has found these test facilities to be in compliance with the requirements of section 2.948 of the FCC rules. The description of the test facility is listed under FCC registration number 809388.

The Industry Canada has reviewed the technical characteristics of the radiated and conducted emission facility, and has found these test facilities to be in compliance. The description of the test facility is listed under chambers filing number 11384A.



 Prüfbericht - Nr.:
 50048015 001
 Seite 5 von 22

 Test Report No.
 Page 5 of 22

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Conducted Emissions

Instrument	Manufacturer	Type No.	Serial No.	Cali. Due Date
EMI Test Receiver	R&S	ESR7	101209	2016.11.03
Two-Line V-Network	R&S	ENV216	101683	2016.11.03
Two-Line V-Network	R&S	ENV216	101684	2016.11.03
Temperature/Humidity Meter	Yuhuaze	N/A	N/A	2016.12.20

Radiated Emission

Instrument	Manufacturer	Type No.	Serial No.	Cali. Due Date
Spectrum Analyzer	Agilent	E4447A	MY45300136	2016.12.08
EMI Test Receiver	R&S	ESR7	101209	2016.11.03
Preamplifier	Schwarzbeck	BBV 9721	9721-008	2017.04.16
Preamplifier	Agilent	83017A	MY53270040	2017.03.29
Loop Antenna	Schwarzbeck	FMZB1519	1519-041	2016.12.14
TRILOG Antenna	Schwarzbeck	VULB9162	9162-047	2016.11.07
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1167	2016.11.07
Broadband Horn Antenna	Schwarzbeck	BBHA9170	BBHA9170549	2017.01.04
Digital Thermometer & Hygrometer	Minggao	N/A	N/A	2016.11.30

Conducted Test Equipment

Instrument	Manufacturer	Type No.	Serial No.	Cali. Due Date
Spectrum Analyzer	Agilent	N9020A	MY52090106	2017.05.08
USB Wideband Power Sensor	Boonton	55006	8911	2017.05.08
Temperature/Humidity Meter	Yuhuaze	N/A	N/A	2016.12.20

Software	Version	Function
e3	V8.3.5	EMI Test Software

 Prüfbericht - Nr.:
 50048015 001
 Seite 6 von 22

 Test Report No.
 Page 6 of 22

2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basics using in house standards or comparisons.

2.5 Measurement Uncertainty

Table 2: Measurement Uncertainty

Measurement Type	Frequency	Uncertainty
Antenna Port Conducted Emission	< 1GHz	±0.39dB
	> 1GHz	±0.68dB
Radiated Emission	30MHz - 1GHz	±5.34dB
	> 1GHz	±5.40dB



> Seite 7 von 22 Prüfbericht - Nr.: 50048015 001 Page 7 of 22 Test Report No.

3. General Product Information

3.1 Product Function and Intended Use

The EUT (Equipment Under Test) is a Z-Wave Controller. For details refer to the User Manual and Circuit Diagram.

3.2 Ratings and System Details

Kind of Equipment : Z-Wave Controller
Type Designation : CRC-3US-6
Operating Frequency : 908.42 MHz
Modulation Type : FSK
Operation Voltage : DC 3.3V (by Battery)
Antenna Type : Copper Wire Antenna

3.3 Independent Operation Modes

The basic operation modes are:

A. On

- 1. Transmitting
- 2. Receiving
- B. Standby
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- Bill of Material - Circuit Diagram - PCB Layout - Instruction Manual - Photo Document - Rating Label



 Prüfbericht - Nr.:
 50048015 001
 Seite 8 von 22

 Test Report No.
 Page 8 of 22

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.10: 2013.

4.3 Special Accessories and Auxiliary Equipment

Null.

4.4 Countermeasures to achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.



 Prüfbericht - Nr.:
 50048015 001
 Seite 9 von 22

 Test Report No.
 Page 9 of 22

5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT: Pass

Table 3: Antenna Requirement

FCC 15.203 – Antenna Requirement 1

Requirement: No antenna other than that furnished by the responsible party shall be

used with the device.

Use of a permanently attached antenna, or

Use an antenna that uses a unique coupling to the intentional

radiator.

Results: Antenna type: Copper Wire Antenna

Verdict: PASS

FCC 15.204 - Antenna Requirement 2

Requirement: An intentional radiator may be operated only with the antenna with

which it is authorized. If an antenna is marketed with the intentional radiator, it shall be of a type which is authorized with the intentional

radiator.

Results: Only one integral antenna can be used

Verdict: PASS

RSS-Gen 6.3 – External Control

Requirement: The device shall not have any external controls accessible to the user

that enable it to be adjusted, selected or programmed to operate in

violation of the limits prescribed in the applicable RSS.

Results: The device does not have any transmitter external controls accessible

to the user that can be adjusted and operated in violation of the limits

of this standard.

Verdict: PASS



 Prüfbericht - Nr.:
 50048015 001
 Seite 10 von 22

 Test Report No.
 Page 10 of 22

RSS-Gen 8.3 – Antenna Requirement

Requirement: Testing shall be performed using the highest gain antenna of each

combination of licence-exempt transmitter and antenna type, with the

transmitter output power set at the maximum level.

Results: The device has only one internal undetachable antenna. And testing

was performed with the transmitter output power set at the maximum

level.

Verdict: PASS

 Prüfbericht - Nr.:
 50048015 001
 Seite 11 von 22

 Test Report No.
 Page 11 of 22

5.1.2 Field Strength of Fundamental Emissions

RESULT: Pass

Date of testing : 2016.04.07 Test standard : FCC Part 15.249

RSS-210 Issue 8 December 2010

Test procedure : ANSI C63.10: 2013 Limit : FCC Part 15.249(a)

Clause A2.9(a) of RSS-210 Issue 8 December 2010

Kind of test site : 3m Semi-Anechoic Chamber

Figure 1: Field Strength of Fundamental Emissions, Antenna Horizontal, EUT X Axis

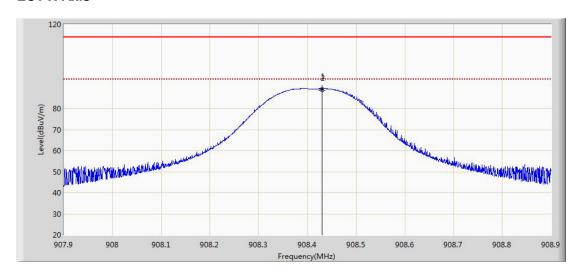


Table 4: Field Strength of Fundamental Emissions, Antenna Horizontal, EUT X Axis

Frequency [MHz]	Measure Level [dBuV/m]	Reading Level [dBuV]	Over Limit [dB]	Limit [dBuV/m]	Factor [dB]	Туре
908.430	89.454	65.252	-24.546	114.000	24.201	PK
908.430	88.772	64.570	-5.228	94.000	24.201	QP

 Prüfbericht - Nr.:
 50048015 001
 Seite 12 von 22

 Test Report No.
 Page 12 of 22

Figure 2: Field Strength of Fundamental Emissions, Antenna Vertical, EUT X Axis

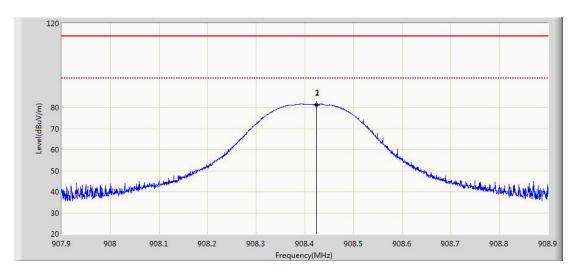


Table 5: Field Strength of Fundamental Emissions, Antenna Vertical, EUT X Axis

Frequency [MHz]	Measure Level [dBuV/m]	Reading Level [dBuV]	Over Limit [dB]	Limit [dBuV/m]	Factor [dB]	Туре
908.424	81.537	57.335	-32.463	114.000	24.201	PK
908.424	81.042	56.840	-12.958	94.000	24.201	QP

Prüfbericht - Nr.: 50048015 001
Test Report No.

Seite 13 von 22 *Page 13 of 22*

Figure 3: Field Strength of Fundamental Emissions, Antenna Horizontal, EUT Y Axis

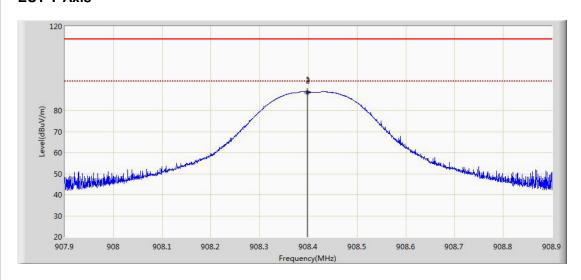


Table 6: Field Strength of Fundamental Emissions, Antenna Horizontal, EUT Y Axis

Frequency [MHz]	Measure Level [dBuV/m]	Reading Level [dBuV]	Over Limit [dB]	Limit [dBuV/m]	Factor [dB]	Type
908.397	88.872	64.670	-25.128	114.000	24.201	PK
908.397	88.322	64.120	-5.678	94.000	24.201	QP

 Prüfbericht - Nr.:
 50048015 001
 Seite 14 von 22

 Test Report No.
 Page 14 of 22

Figure 4: Field Strength of Fundamental Emissions, Antenna Vertical, EUT Y Axis

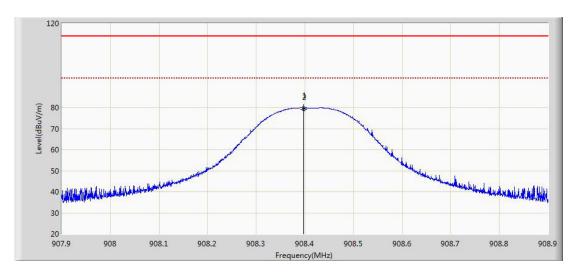


Table 7: Field Strength of Fundamental Emissions, Antenna Vertical, EUT Y Axis

Frequency [MHz]	Measure Level [dBuV/m]	Reading Level [dBuV]	Over Limit [dB]	Limit [dBuV/m]	Factor [dB]	Type
908.397	79.870	55.668	-34.130	114.000	24.201	PK
908.397	79.212	55.010	-14.788	94.000	24.201	QP

 Prüfbericht - Nr.:
 50048015 001
 Seite 15 von 22

 Test Report No.
 Page 15 of 22

Figure 5: Field Strength of Fundamental Emissions, Antenna Horizontal, EUT Z Axis

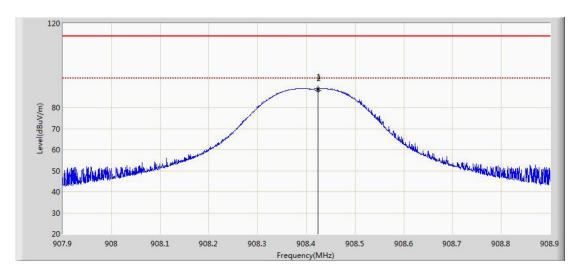


Table 8: Field Strength of Fundamental Emissions, Antenna Horizontal, EUT Z Axis

Frequency [MHz]	Measure Level [dBuV/m]	Reading Level [dBuV]	Over Limit [dB]	Limit [dBuV/m]	Factor [dB]	Туре
908.424	88.894	64.692	-25.106	114.000	24.201	PK
908.424	88.232	64.030	-5.768	94.000	24.201	QP

Prüfbericht - Nr.: 50048015 001
Test Report No.

Seite 16 von 22 *Page 16 of 22*

Figure 6: Field Strength of Fundamental Emissions, Antenna Vertical, EUT Z Axis

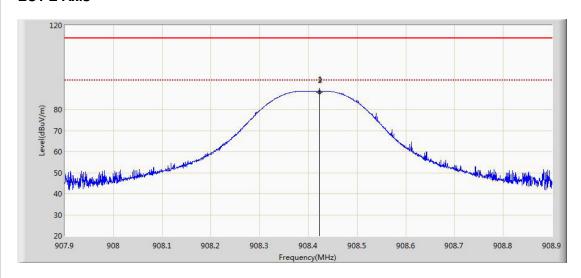


Table 9: Field Strength of Fundamental Emissions, Antenna Vertical, EUT Z Axis

Frequency [MHz]	Measure Level [dBuV/m]	Reading Level [dBuV]	Over Limit [dB]	Limit [dBuV/m]	Factor [dB]	Туре
908.422	88.759	64.557	-25.241	114.000	24.201	PK
908.422	88.052	63.850	-5.948	94.000	24.201	QP



> Seite 17 von 22 Prüfbericht - Nr.: 50048015 001 Page 17 of 22

Test Report No.

5.1.3 Radiated Emissions

RESULT: Pass

: 2016.04.07 Date of testing Test standard : FCC Part 15.249

RSS-210 Issue 8 December 2010

Test procedure : ANSI C63.10: 2013 Frequency range : 9kHZ – 30MHz

30MHz – tenth harmonic of the highest

fundamental frequency

: FCC Part 15.249(a) & FCC Part 15.249(e), Limit

FCC Part 15.249(d) & FCC Part 15.209;

Clause A2.9(a) of RSS-210 Issue 8 December 2010, Clause A2.9(b) of RSS-210 Issue 8 December 2010 &

Table 4 of RSS-Gen Issue4 November 2014

: 3m Semi-Anechoic Chamber Kind of test site

Table 10: Radiated Emissions

Frequency [MHz]	Measure Level [dBuV/m]	Reading Level [dBuV]	Over Limit [dB]	Limit [dBuV/m]	Factor [dB]	Туре	Antenna Polarity
48.915	12.655	-2.310	-27.345	40.000	14.965	QP	Н
99.355	11.467	-1.430	-32.033	43.500	12.897	QP	Н
256.010	13.659	-0.160	-32.341	46.000	13.819	QP	Н
355.920	18.589	2.640	-27.411	46.000	15.950	QP	Н
363.680	20.235	4.160	-25.765	46.000	16.075	QP	Н
770.595	22.819	0.310	-23.181	46.000	22.510	QP	Н
2725.500	49.698	52.209	-24.302	74.000	-2.510	PK	Н
4544.500	43.599	42.373	-30.401	74.000	1.226	PK	Н
6355.000	42.940	37.610	-31.060	74.000	5.330	PK	Н
46.490	18.141	3.150	-21.859	40.000	14.991	QP	V
98.385	11.324	-1.450	-32.176	43.500	12.774	QP	V
208.965	13.570	1.140	-29.930	43.500	12.430	QP Q	V
391.325	16.963	0.420	-29.037	46.000	16.542	QP Q	V
625.580	20.733	0.350	-25.267	46.000	20.384	QP	V
781.265	23.051	0.410	-22.949	46.000	22.641	QP	V
2725.500	44.526	47.037	-29.474	74.000	-2.510	PK	٧
4544.500	39.940	38.714	-34.060	74.000	1.226	PK	V
6355.000	43.337	38.007	-30.663	74.000	5.330	PK	V
7757.500	44.403	35.119	-29.597	74.000	9.284	PK	V

Note:

- 1. The radiated emission below 30MHz is very low, so it was not shown on the report.
- 2. The Bold rows in the above table are the results for the Harmonic Radiated Emission.



Prüfbericht - Nr.: Test Report No.	50048015 001	Seite 18 von 22 <i>Page 18 of 22</i>
The measurements using not performed since the resaverage limit.	g an average detector for the frequency above 1GHz we sults measured with a Peak detector are totally meet the	re



 Prüfbericht - Nr.:
 50048015 001
 Seite 19 von 22

 Test Report No.
 Page 19 of 22

5.1.4 20dB Bandwidth and 99% Bandwidth

RESULT: Pass

Date of testing : 2016.04.10 Test standard : FCC Part 15.215

RSS-Gen Issue4 November 2014

Test procedure : ANSI C63.10: 2013 Limit : FCC Part 15.215(c)

Clause 6.6 of RSS-Gen Issue4 November 2014

Figure 7: 20dB Bandwidth and 99% Bandwidth



Table 11: 20dB Bandwidth and 99% Bandwidth

Channel Frequency	20dB Bandwidth	99% Bandwidth
[MHz]	[kHz]	[kHz]
908.4	70.93	

Products

 Prüfbericht - Nr.:
 50048015 001
 Seite 20 von 22

 Test Report No.
 Page 20 of 22

5.1.5 RF Exposure Statement

RESULT: Pass

Evaluate standard : FCC KDB # 447498 D01 V06

RSS-102 Issue 5

Calculated Output Power

The maximum measured transmitter power is the following:

Frequency [GHz]	Field Strength of Fundamental Emissions [dBuv/m]	Field Strength of Fundamental Emissions [dBm]	Field Strength of Fundamental Emissions [mW]
0.908430	89.454	-5.77	0.265

Note:Relation between power, electric field strength,E

A simple relation can be established for perfect, ideal cases (which means free space, far field conditions) between E(V/m), D distance between the transmitting radio equipment and the point of measurement (m), e.i.r.p.(W).

$$E = \sqrt{\frac{30(e.i.r.p.)}{D}}$$

This represents a site gain of 4dB. The field strength as E(V/m) can be converted to dB(uV/m) as follows:

 $E(dB(uV/m)) = 120 + 20\log E$

Evaluation for FCC

According to FCC KDB # 447498 D01 V06, Clause 4.3.1

(a) For 100MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

 $\frac{\text{(max. power of channel, including tune - up tolerance, mW)}}{\text{(min. test separation distance, mm)}} \times \sqrt{f(GHz)}$

 \leq 3.0, for 1-g SAR, and \leq 7.5, for 10-g extremity SAR

So, the max allowed power for 1-g SAR with distance 5mm at 0.908430GHz is 15.73785mW

And the max allowed power for 10-g extremity SAR with distance 5mm at 0.908430GHz is 39.34464mW

The maximum conducted output power of the EUT is: 0.265mW which is totally lower than the SAR test exclusion thresholds.

> 50048015 001 Prüfbericht - Nr.:

Test Report No.

Seite 21 von 22 Page 21 of 22

Evaluation for IC

According to table 1 and note 4 of RSS-102 Issue 5, March 2015

Table 1: SAR evaluation - Exemption limits for routine evaluation based on frequency and separation distance 4,5

Frequency	Exemption Limits (mW)					
(MHz)	At separation At separation distance of		At separation distance of	At separation distance of	At separation distance of	
	≤5 mm	10 mm	15 mm	20 mm	25 mm	
≤300	71 mW	101 mW	132 mW	162 mW	193 mW	
450	52 mW	70 mW	88 mW	106 mW	123 mW	
835	17 mW	30 mW	42 mW	55 mW	67 mW	
1900	7 mW	10 mW	18 mW	34 mW	60 mW	
2450	4 mW	7 mW	15 mW	30 mW	52 mW	
3500	2 mW	6 mW	16 mW	32 mW	55 mW	
5800	1 mW	6 mW	15 mW	27 mW	41 mW	

Frequency	Exemption Limits (mW)					
(MHz)	At separation distance of 30 mm	At separation distance of 35 mm	At separation distance of 40 mm	At separation distance of 45 mm	At separation distance of ≥50 mm	
≤300	223 mW	254 mW	284 mW	315 mW	345 mW	
450	141 mW	159 mW	177 mW	195 mW	213 mW	
835	80 mW	92 mW	105 mW	117 mW	130 mW	
1900	99 mW	153 mW	225 mW	316 mW	431 mW	
2450	83 mW	123 mW	173 mW	235 mW	309 mW	
3500	86 mW	124 mW	170 mW	225 mW	290 mW	
5800	56 mW	71 mW	85 mW	97 mW	106 mW	

For frequencies (835 MHz to 1900 MHz), the conservative limit of 1900MHz can be used for exemption limits.

So, the max allowed power for 1-g SAR with distance 5mm at 908.430MHz is 7mW

The maximum conducted output power of the EUT is: 0.265mW which is totally lower than the SAR test exclusion thresholds.

Conclusion

Since the distance of the device in generally using is lower than 5mm, so a distance of 5mm is applied to determine SAR test exclusion. SAR data is not required for either FCC or IC.



 Prüfbericht - Nr.:
 50048015 001
 Seite 22 von 22

 Test Report No.
 Page 22 of 22

6. List of Tables

Table 2: Measurement Uncertainty	Table 1: List of Test and Measurement Equipment	5
Table 3: Antenna Requirement		
Table 5: Field Strength of Fundamental Emissions, Antenna Vertical, EUT X Axis		
Table 5: Field Strength of Fundamental Emissions, Antenna Vertical, EUT X Axis	Table 4: Field Strength of Fundamental Emissions, Antenna Horizontal, EUT X Axis	11
Table 7: Field Strength of Fundamental Emissions, Antenna Vertical, EUT Y Axis		
Table 7: Field Strength of Fundamental Emissions, Antenna Vertical, EUT Y Axis	Table 6: Field Strength of Fundamental Emissions, Antenna Horizontal, EUT Y Axis	13
Table 8: Field Strength of Fundamental Emissions, Antenna Horizontal, EUT Z Axis		
Table 9: Field Strength of Fundamental Emissions, Antenna Vertical, EUT Z Axis	, , , , , , , , , , , , , , , , , , ,	
Table 10: Radiated Emissions, 30MHz – 10 th harmonic of the highest fundamental frequency17		

7. List of Figures

Figure 1: Field Strength of Fundamental Emissions, Antenna Horizontal, EUT X Axis	11
Figure 2: Field Strength of Fundamental Emissions, Antenna Vertical, EUT X Axis	
Figure 3: Field Strength of Fundamental Emissions, Antenna Horizontal, EUT Y Axis	
Figure 4: Field Strength of Fundamental Emissions, Antenna Vertical, EUT Y Axis	
Figure 5: Field Strength of Fundamental Emissions, Antenna Horizontal, EUT Z Axis	
Figure 6: Field Strength of Fundamental Emissions, Antenna Vertical, EUT Z Axis	
Figure 7: 20dB Bandwidth and 99% Bandwidth	