

Prüfbericht-Nr.: Test Report No.:	50379539 001	Auftrags-Nr.: Order No.:	168138262	Seite 1 von 17 Page 1 of 17
Kunden-Referenz-Nr.: Client Reference No.:	N/A	Auftragsdatum: Order date:	24.02.2020	
Auftraggeber: Client:	Chongqing Changan Automobile Co., Ltd. No. 260 Jianxin Dong Road, Jiangbei District, 400023 Chongqing, P.R. China			
Prüfgegenstand: Test item:	Smart Key Assy			
Bezeichnung / Typ-Nr.: Identification / Type No.:	3608030-BU81-AA			
Auftrags-Inhalt: Order content:	Test Report			
Prüfgrundlage: Test specification:	CFR47 FCC Part 15.203 CFR47 FCC Part 15.231 CFR47 FCC Part 2.1093			
Wareneingangsdatum: Date of receipt:	05.03.2020	Refer to Photo Documentation		
Prüfmuster-Nr.: Test sample No.:	A001056581-001			
Prüfzeitraum: Testing period:	05.03.2020 – 30.04.2020			
Ort der Prüfung: Place of testing:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: Test result*:	PASS			
geprüft von / tested by:		kontrolliert von / reviewed by:		
31.07.2020 Hardy Suo / Assistant Project Manager		31.07.2020 Sam Lin / Technical Certifier		
Datum Date	Name / Stellung Name / Position	Unterschrift Signature	Datum Date	Name / Stellung Name / Position
				Unterschrift Signature
Sonstiges / Other: FCC ID: 2AVTF360803081				
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:		Prüfmuster vollständig und unbeschädigt Test item complete and undamaged		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable 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.				

V04

TEST SUMMARY

5.1.1 Antenna Requirement

RESULT: Pass

5.1.2 Deactivation of the Transmission

RESULT: Pass

5.1.3 20dB Emission Bandwidth

RESULT: Pass

5.1.4 Field strength of fundamental and Unwanted Emissions in the Spurious Domain

RESULT: Pass

5.1.5 Radio Frequency Exposure Compliance

RESULT: Pass

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1. GENERAL REMARKS

1.1 COMPLEMENTARY MATERIALS

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Results of radio spectrum

Appendix B: Photographs of the Test Set-Up

1.2 TEST STANDARD(S)

Applied Rules: CFR47 FCC Part 15.203
CFR47 FCC Part 15.231
CFR47 FCC Part 2.1093

Test Method: ANSI C63.10:2013

2. TEST SITES

2.1 TEST FACILITIES

Test Facilities: TÜV Rheinland (Shenzhen) Co., Ltd.

Address:

No. 362 Huanguan Road Middle, Longhua District, Shenzhen 518110, P.R. China

2.2 TEST DATE

Date: 05.03.2020 – 30.04.2020

2.3 LIST OF TEST AND MEASUREMENT INSTRUMENTS

Table 1: List of Test and Measurement Equipment

Unwanted Emission Testing (TS9975)					
Equip. No.	Description	Manufacturer	Model	Serial No.	Calibrated until (DD.MM.YYYY)
1826021	EMI Test Receiver	R&S	ESR 7	102021	19.08.2020
1826023	Signal Analyzer	R&S	FSV 40	101439	21.08.2020
1826024	System Controller Interface	R&S	SCI-100	S10010038	N/A
1826026	OSP	R&S	OSP 120	102040	N/A
1826028	Pre-amplifier	R&S	SCU08F1	08320031	20.08.2020
1826029	Amplifier	R&S	SCU-18F	180070	20.08.2020
1826030	Amplifier	R&S	SCU40A	100475	20.09.2020
1826031	Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	02.09.2020
1826034	Active Loop Antenna	Schwarzbeck	FMZB 1513	302	01.09.2020
1826036	Test software	R&S	V10.40.10-EMC32	N/A	N/A
1826037	Control PC	Dell	OptiPlex 7050	36NV9P2	N/A
1826433	3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	06.07.2020

2.4 TRACEABILITY

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

2.5 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 basis using in house standards or comparisons.

2.6 LOCATION OF ORIGINAL DATA

The original copies of all test data taken during actual testing were attached at Appendix A of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 STATUS OF FACILITY USED FOR TESTING

The TÜV Rheinland (Shenzhen) Co., Ltd. facility located at No. 362 Huanguan Road Middle, Longhua District, Shenzhen 518110, P.R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3. GENERAL PRODUCT INFORMATION

3.1 PRODUCT FUNCTION AND INTENDED USE

The EUT is a Smart Key Assy for vehicular use.

3.2 RATINGS AND SYSTEM DETAILS

Table 2: Technical Characteristics of EUT

General Information of EUT	Description
Kind of Equipment:	Smart Key Assy
Type Designation:	3608030-BU81-AA
FCC ID:	2AVTF360803081
Type of Equipment:	Portable device
Operating Frequency Band:	433.05 – 434.79MHz
Operating Frequencies:	433.42 MHz, 433.92 MHz, 434.42 MHz
Modulation Type:	FSK
Antenna Type:	Integral Antenna
Antenna Gain:	2 dBi
Operating Voltage:	DC 3V Li-MnO2 cell battery
Operating Temperature Range:	-40°C ~ +85°C

3.3 INDEPENDENT OPERATION MODES

The basic operation modes are:

- A. Transmitting
 - 1. 433.42MHz
 - 2. 433.92MHz
 - 3. 434.42MHz
- B. Idle
- C. Off

3.4 NOISE GENERATING AND NOISE SUPPRESSING PARTS

Refer to the Circuit Diagram.

3.5 SUBMITTED DOCUMENTS

- | | |
|---|--|
| ☒ - Block Diagram | ☒ - Circuit Diagram |
| ☐ - PCB Layout | ☒ - Bill of Material |
| ☒ - Rating Label | ☒ - Instruction Manual |
| ☒ - Photo Documentation | |

4. TEST SET-UP AND OPERATION MODES

4.1 PRINCIPLE OF CONFIGURATION SELECTION

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation 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.

Table 3: Test Environments

Environment Parameter	Selected Values During Tests		
	Temperature	Voltage (Battery)	Relative Humidity
Normal (NTNV)	24°C	3V	Ambient
LTLV	-	-	-
LTHV	-	-	-
HTLV	-	-	-
HTHV	-	-	-

4.3 SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT

The EUT was tested together with the following accessories:

Table 4: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N
--	--	--	--

4.4 COUNTERMEASURES TO ACHIEVE ERM COMPLIANCE

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF). No additional measures were employed to achieve compliance.

4.5 TEST SETUP DIAGRAM

Diagram of Measurement Configuration for Radiation Test

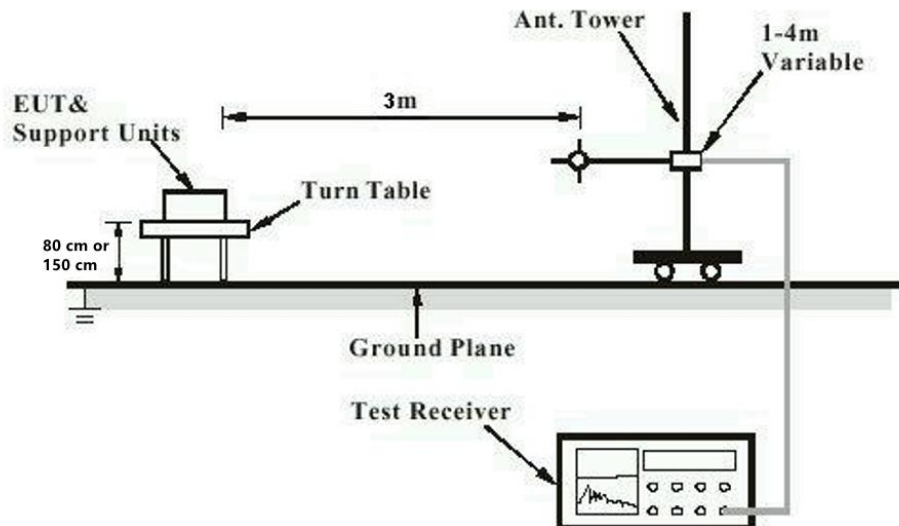


Diagram of Measurement Equipment Configuration for Conduction Measurement

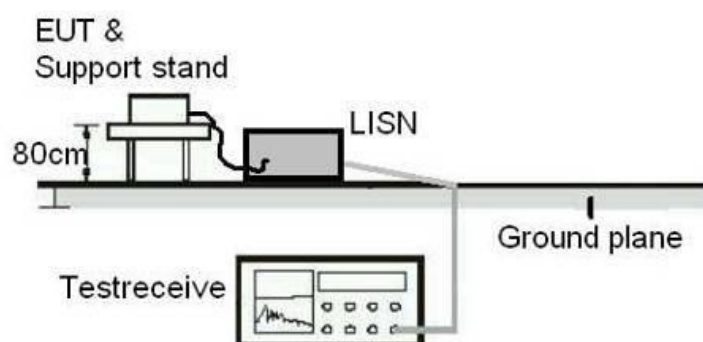
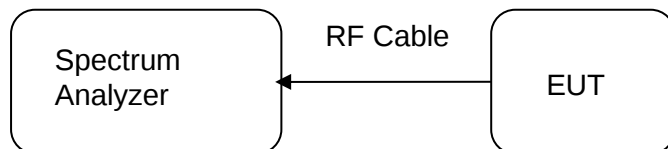


Diagram of Measurement Equipment Configuration for Transmitter Measurement



5. TEST RESULTS

5.1 Essential Requirements of Standard

5.1.1 Antenna Requirement

RESULT:**Pass**

Test standard	:	CFR47 FCC Part 15.203
Limit	:	CFR47 FCC Part 15.203
Kind of test site	:	Shielding Room

Test Setup

Date of testing	:	05.03.2020 – 30.04.2020
Input voltage	:	3V
Test environment	:	Normal test conditions
Operation mode	:	A
Ambient temperature	:	23 °C
Relative humidity	:	50%
Atmospheric pressure	:	101.0 kPa

According to the manufacturer declared, the EUT has an integral antenna, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to compliance the provision.

Refer to EUT photo for details.

5.1.2 Deactivation of the Transmission

RESULT:**Pass****Test Specification**

Test standard	:	CFR47 FCC Part 15.231
Basic standard	:	ANSI C 63.10:2013
Test requirement	:	CFR47 FCC Part 15.231 (a)(1)
Limit	:	A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.
Test suite	:	Shielding Room

Test Setup

Date of testing	:	05.03.2020 – 30.04.2020
Test environment:	:	Normal test conditions
Operation mode	:	A
Ambient temperature	:	24°C
Relative humidity	:	55%
Atmospheric pressure	:	101kPa

Conclusion:

Refer to attached Appendix A for details of test results.

5.1.3 20dB Emission Bandwidth

RESULT:**Pass****Test Specification**

Test standard	:	CFR47 FCC Part 15.231
Basic standard	:	ANSI C 63.10:2013
Test requirement	:	CFR47 FCC Part 15.231 (c)
Limit	:	CFR47 FCC Part 15.231 (c)
Test suite	:	3m Semi Anechoic Room

Test Setup

Date of testing	:	05.03.2020 – 30.04.2020
Test environment:	:	Normal test conditions
Operation mode	:	A
Ambient temperature	:	24°C
Relative humidity	:	55%
Atmospheric pressure	:	101kPa

Conclusion:

Refer to attached Appendix A for details of test results.

5.1.4 Field strength of fundamental and Unwanted Emissions in the Spurious Domain

RESULT:**Pass****Test Specification**

Test standard	:	CFR47 FCC Part 15.231 CFR47 FCC Part 15.205 CFR47 FCC Part 15.209
Basic standard	:	ANSI C 63.10:2013
Test requirement	:	CFR47 FCC Part 15.231 (b)(1)(2)(3)
Limit	:	CFR47 FCC Part 15.231 (b)
Test suite	:	3m Semi Anechoic Room

Test Setup

Date of testing	:	05.03.2020 – 30.04.2020
Test environment:	:	Normal test conditions
Operation mode	:	A
Ambient temperature	:	24°C
Relative humidity	:	55%
Atmospheric pressure	:	101kPa

Conclusion:

Refer to attached Appendix A for details of test results.

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5.1.5 Radio Frequency Exposure Compliance

RESULT: Pass**Test Specification**

Test standard : CFR47 FCC Part 2.1093

Limit : FCC KDB Publication 447498 D01 v06

Measurement Record for CFR47 FCC Part 2.1093

The minimum distance for the EUT is less than 5mm.

The maximum specified e.r.p.: $71.34\text{dBuV/m}@3\text{m} = -23.82\text{dBm} = 0.004\text{mW}$

According to KDB 447498 D01 v06 4.3.1 a)

Exempted Power for this device: 9.5mW, hence the EUT is compliance with the RF exposure.

6. System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

Table 5: System Measurement Uncertainty

Items		Extended Uncertainty
RE	Radiated emission 9 kHz - 30 MHz	±3.97 dB
	Radiated emission 30 MHz - 1 GHz	±4.30 dB
Remark: 95% Confidence Levels, K=2.		

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Test Results

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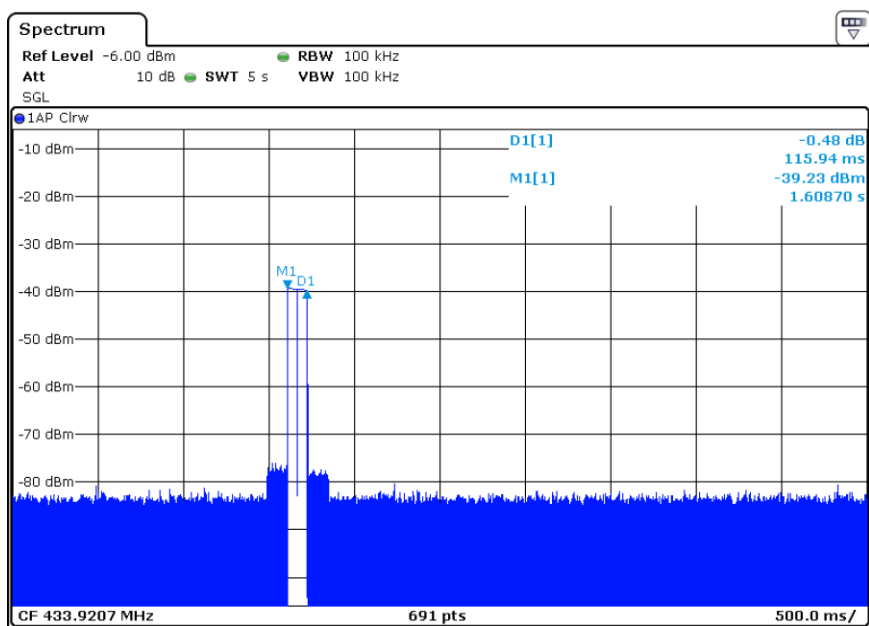
 A.3.5 HIGH CHANNEL, HORIZONTAL 13

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APPENDIX A.1: TEST RESULTS OF DEACTIVATION OF THE TRANSMISSION

Test Results

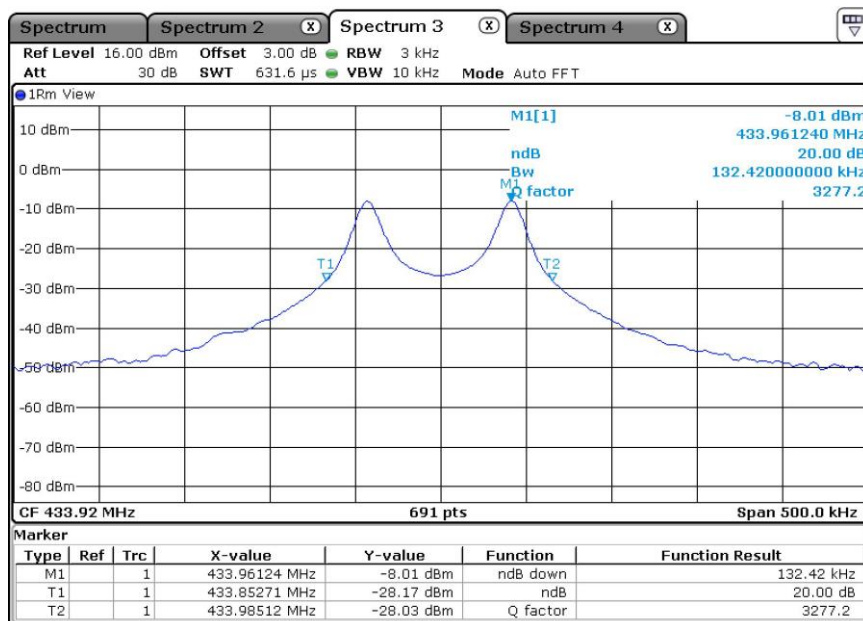
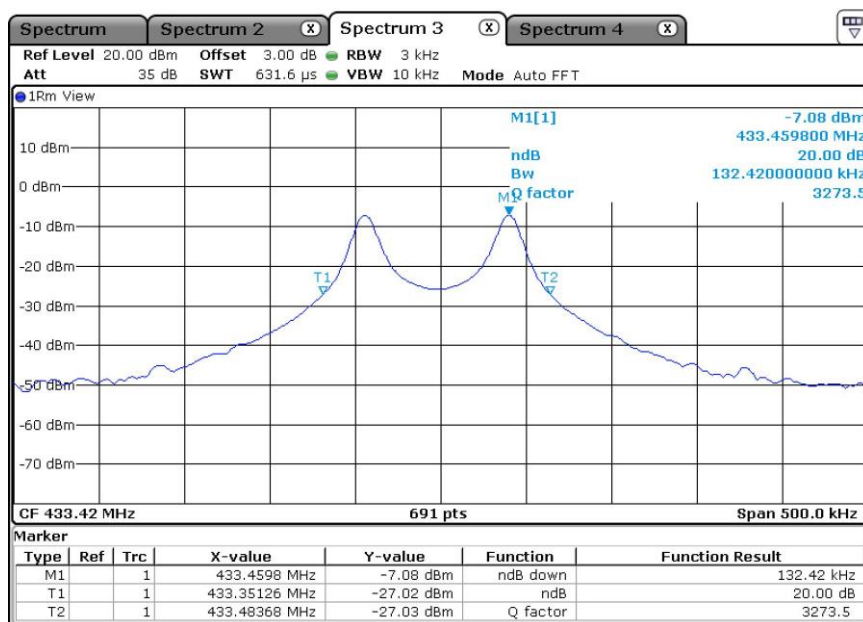
Operation Mode	Duration Time (S)	Limit (S)	Result
A	0.116	5	Pass

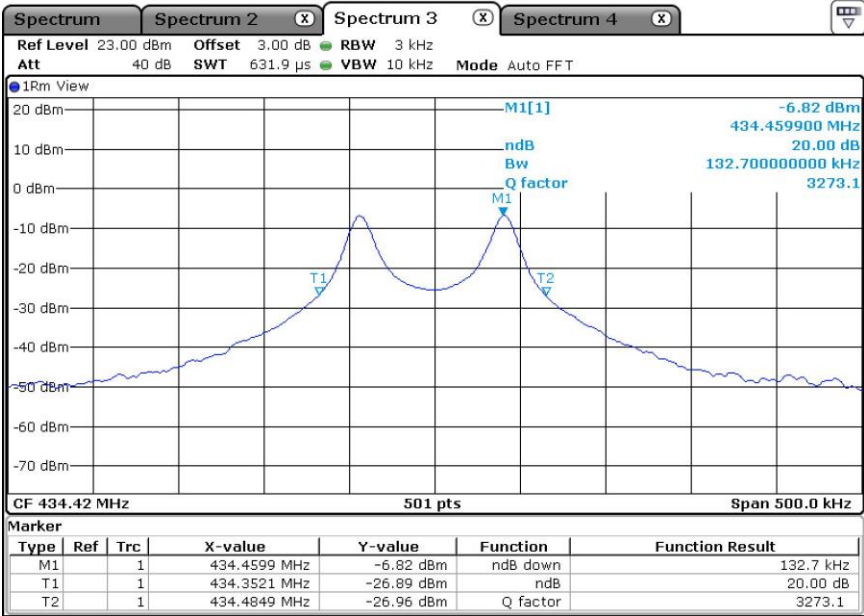


APPENDIX A.2: TEST RESULTS OF 20dB EMISSION BANDWIDTH

Test Results

Operation Frequency (MHz)	20dB Emission Bandwidth (MHz)	Limit (MHz)	Result
433.42	0.132	1.084	Pass
433.92	0.132	1.085	Pass
434.42	0.133	1.086	Pass



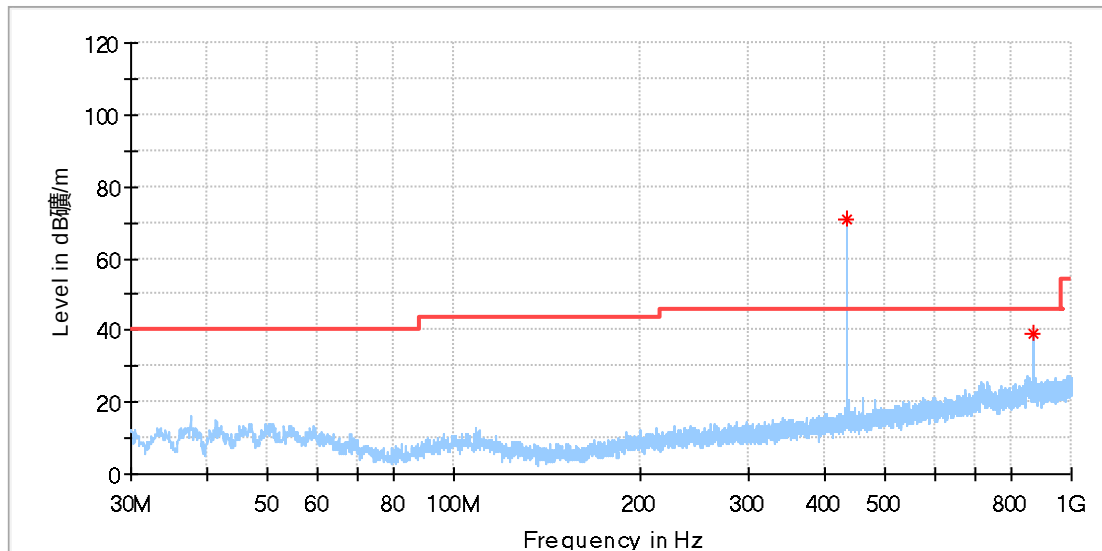


APPENDIX A.3: TEST RESULTS OF FIELD STRENGTH OF FUNDAMENTAL AND UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN

A.3.1 Low Channel, Horizontal

EUT Information

EUT Name:	Smart Key
Model:	3608030-BU51-AA
Test Mode:	TX_Low
Test Voltage::	Full Battery
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.231
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



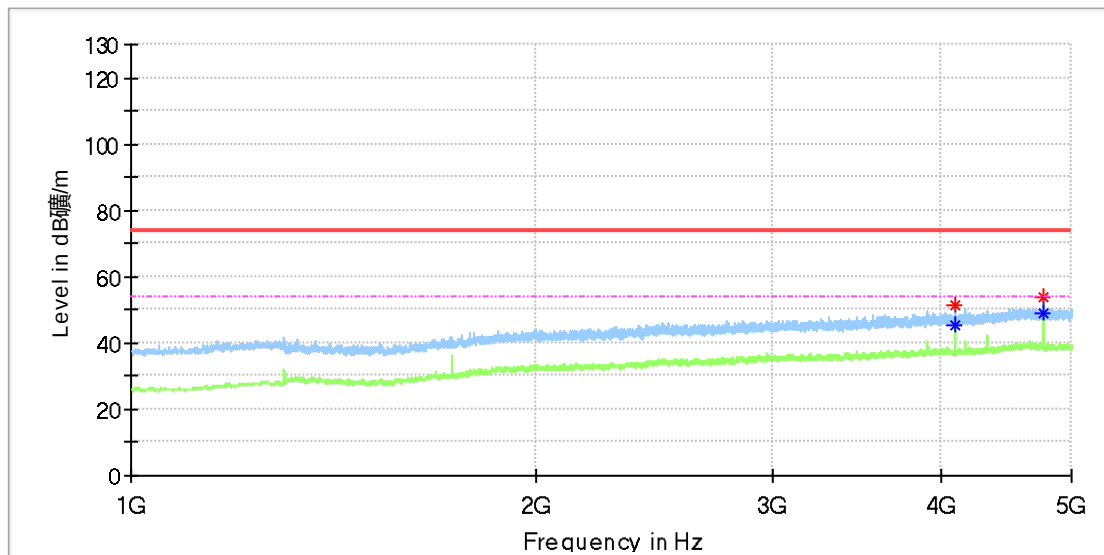
Critical_Freqs

Frequency (MHz)	MaxPeak	Average (dBμV/m)	Limit (dBμV/m)	Margin	Height	Pol	Azimuth	Corr. (dB/m)
433.374500	70.82	---	46.00	-24.82	100.0	H	278.0	-13.5
866.916000	39.20	---	46.00	6.80	100.0	H	129.0	-5.7

Remark: the limit for field strength of fundamental is 100.12dBuV/m (PK), 80.12dBuV/m (AV).

EUT Information

EUT Name:	Smart Key
Model:	3608030-BU51-AA
Test Mode:	TX_Low
Test Voltage::	Full Battery
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.231
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



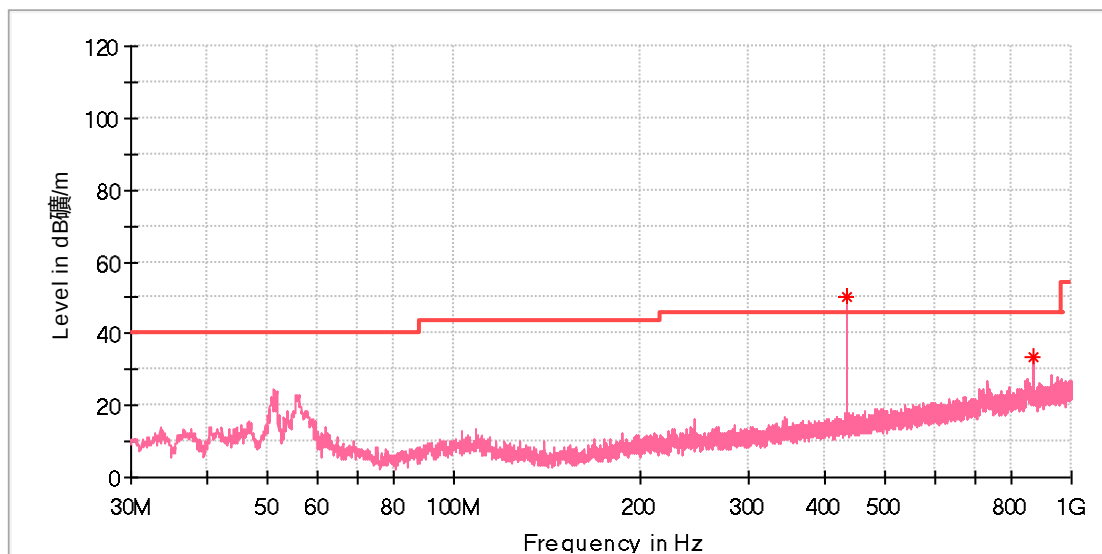
Critical_Freqs

Frequency (MHz)	MaxPeak	Average (dBμV/m)	Limit (dBμV/m)	Margin	Height	Pol	Azimuth	Corr. (dB/m)
4100.437500	51.27	---	74.00	22.73	100.0	H	321.0	10.1
4100.437500	---	45.54	54.00	8.46	100.0	H	321.0	10.1
4767.362500	53.97	---	74.00	20.03	100.0	H	129.0	11.8
4768.287500	---	49.16	54.00	4.84	100.0	H	3.0	11.8

A.3.2 Low Channel, Vertical

EUT Information

EUT Name:	Smart Key
Model:	3608030-BU51-AA
Test Mode:	TX_Low
Test Voltage::	Full Battery
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.231
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

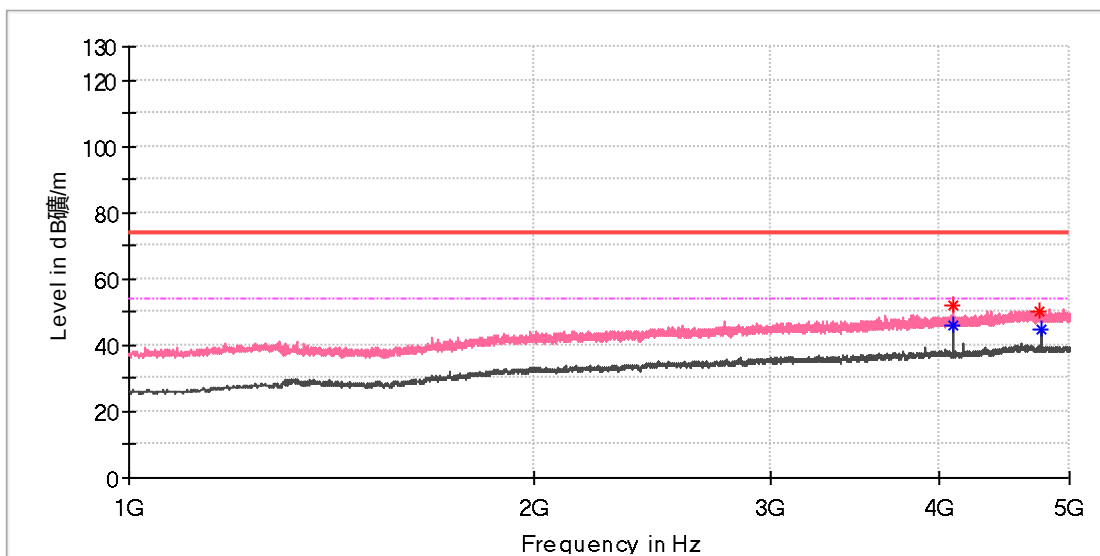
**Critical_Freqs**

Frequency (MHz)	MaxPeak	Average (dBμV/m)	Limit (dBμV/m)	Margin	Height	Pol	Azimuth	Corr. (dB/m)
433.471500	50.29	---	46.00	-4.29	100.0	V	331.0	-13.5
866.916000	33.50	---	46.00	12.50	100.0	V	107.0	-5.7

Remark: the limit for field strength of fundamental is 100.12dBuV/m (PK), 80.12dBuV/m (AV).

EUT Information

EUT Name:	Smart Key
Model:	3608030-BU51-AA
Test Mode:	TX_Low
Test Voltage::	Full Battery
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.231
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



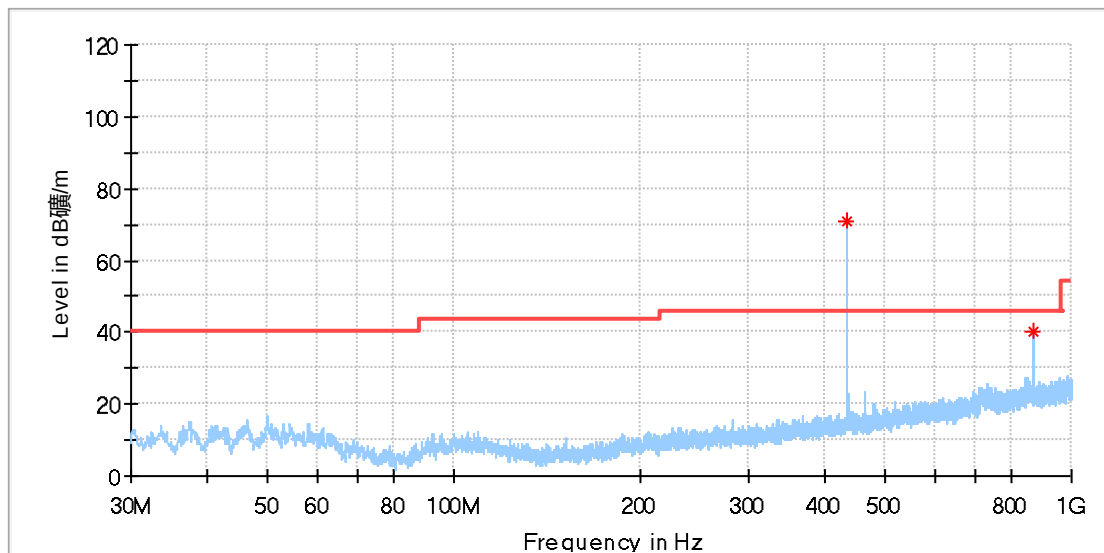
Critical Freqs

Frequency (MHz)	MaxPeak	Average (dBμV/m)	Limit (dBμV/m)	Margin	Height	Pol	Azimuth	Corr. (dB/m)
4100.900000	---	45.77	54.00	8.23	100.0	V	86.0	10.1
4101.825000	52.06	---	74.00	21.94	100.0	V	184.0	10.1
4756.262500	50.21	---	74.00	23.79	100.0	V	110.0	11.8
4768.287500	---	44.80	54.00	9.20	100.0	V	45.0	11.8

A.3.3 Middle Channel, Horizontal

EUT Information

EUT Name:	Smart Key
Model:	3608030-BU51-AA
Test Mode:	TX_Mid
Test Voltage::	Full Battery
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.231
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



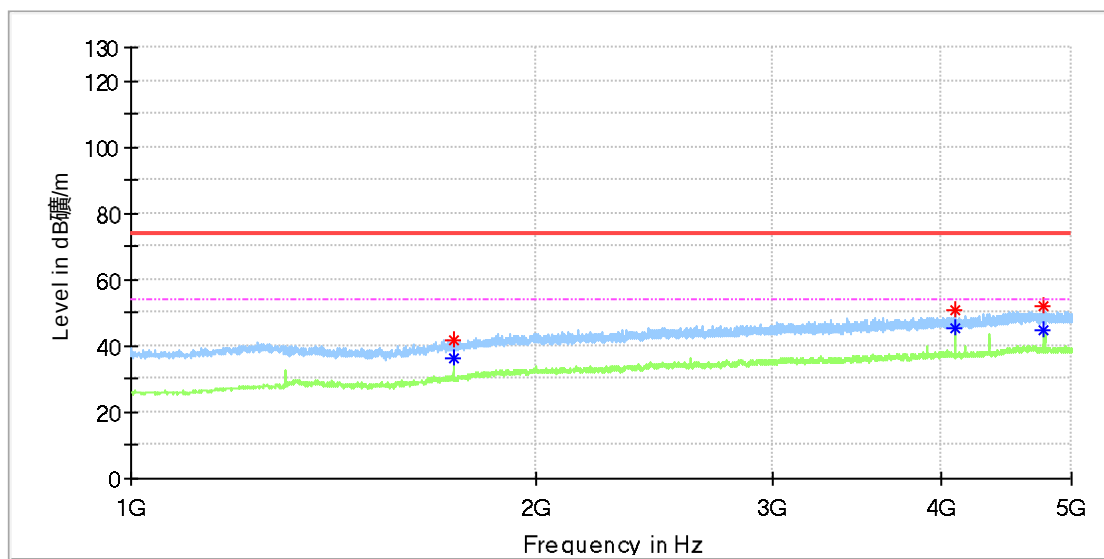
Critical_Freqs

Frequency (MHz)	MaxPeak	Average (dBµV/m)	Limit (dBµV/m)	Margin	Height	Pol	Azimuth	Corr. (dB/m)
867.740500	40.20	---	46.00	5.80	100.0	H	104.0	-5.7
433.956500	70.76	---	46.00	-24.76	100.0	H	274.0	-13.5

Remark: the limit for field strength of fundamental is 100.14dBuV/m (PK), 80.14dBuV/m (AV).

EUT Information

EUT Name:	Smart Key
Model:	3608030-BU51-AA
Test Mode:	TX_Mid
Test Voltage::	Full Battery
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.231
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



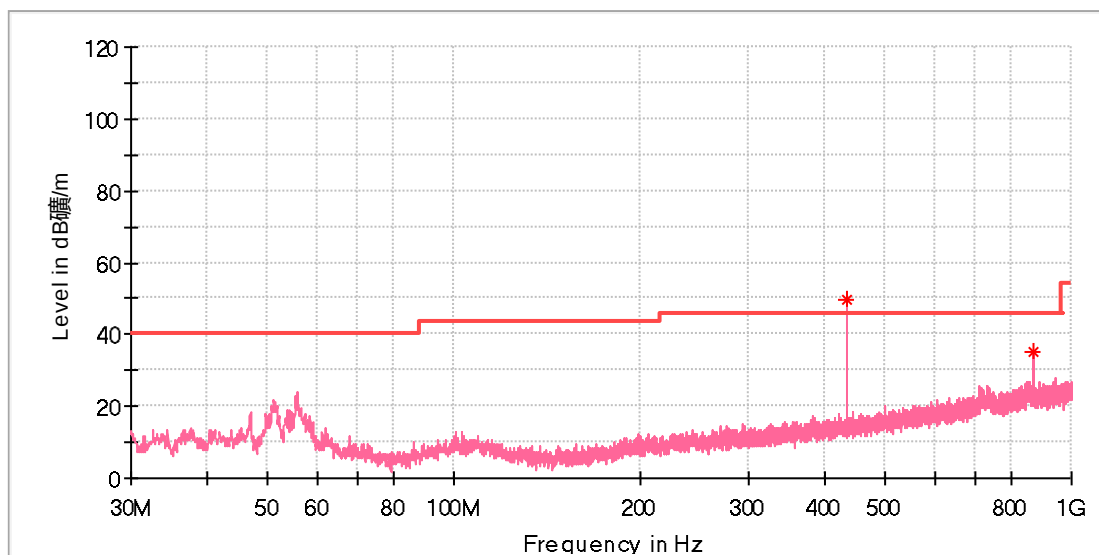
Critical_Freqs

Frequency (MHz)	MaxPeak	Average (dBμV/m)	Limit (dBμV/m)	Margin	Height	Pol	Azimuth	Corr. (dB/m)
1735.675000	41.98	---	74.00	32.02	100.0	H	260.0	3.6
1735.675000	---	36.02	54.00	17.98	100.0	H	260.0	3.6
4100.437500	50.62	---	74.00	23.38	100.0	H	260.0	10.1
4100.900000	---	45.53	54.00	8.47	100.0	H	96.0	10.1
4772.912500	51.72	---	74.00	22.28	100.0	H	4.0	11.8
4773.375000	---	44.79	54.00	9.21	100.0	H	4.0	11.8

A.3.4 Middle Channel, Vertical

EUT Information

EUT Name:	Smart Key
Model:	3608030-BU51-AA
Test Mode:	TX_Mid
Test Voltage::	Full Battery
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.231
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

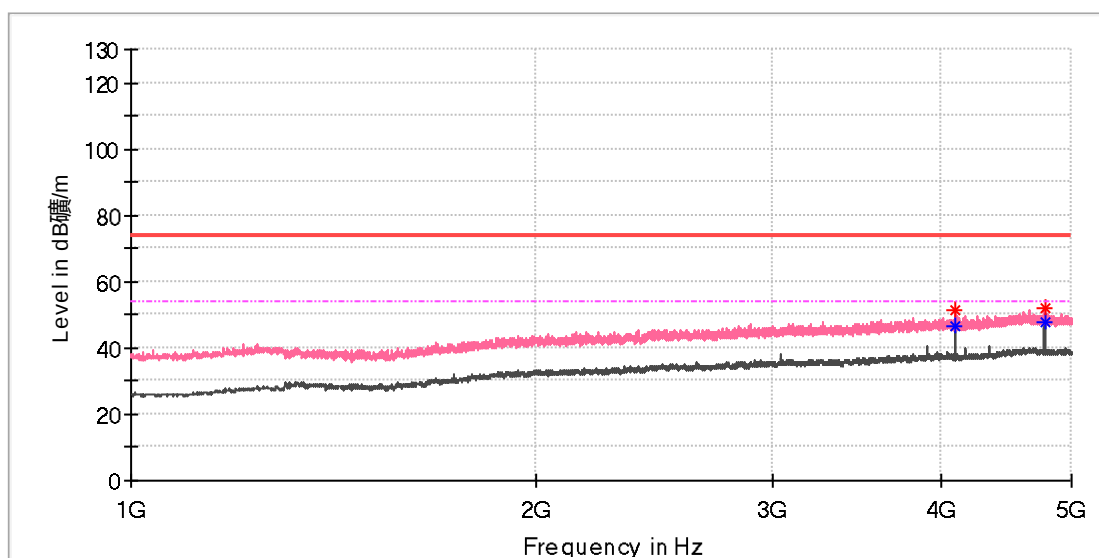
**Critical_Freqs**

Frequency (MHz)	MaxPeak	Average (dBμV/m)	Limit (dBμV/m)	Margin	Height	Pol	Azimuth	Corr. (dB/m)
433.859500	49.89	---	46.00	-3.89	100.0	V	161.0	-13.5
867.789000	35.18	---	46.00	10.82	100.0	V	234.0	-5.7

Remark: the limit for field strength of fundamental is 100.14dBuV/m (PK), 80.14dBuV/m (AV).

EUT Information

EUT Name:	Smart Key
Model:	3608030-BU51-AA
Test Mode:	TX_Mid
Test Voltage::	Full Battery
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.231
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



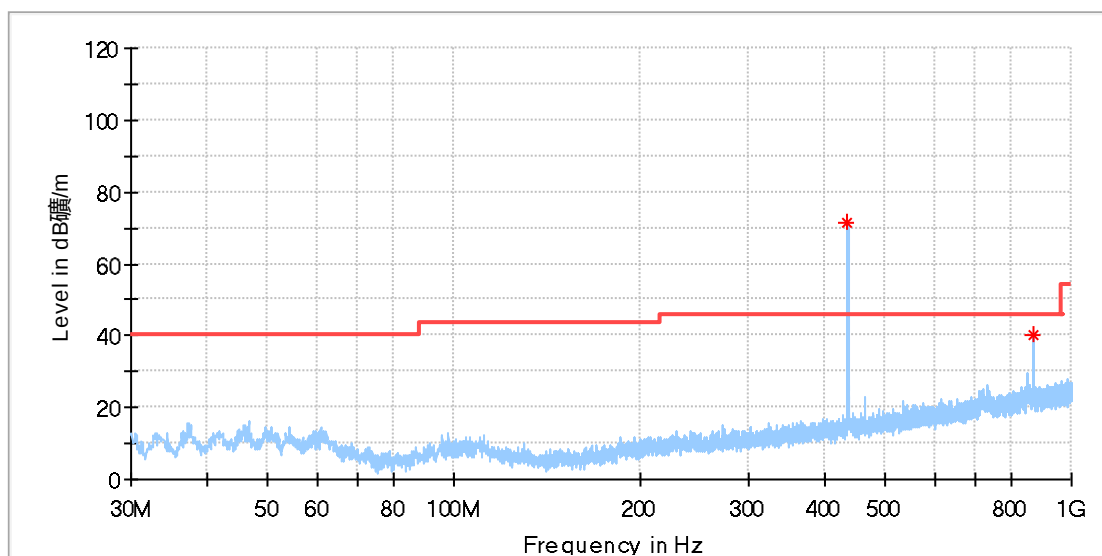
Critical_Freqs

Frequency (MHz)	MaxPeak	Average (dBμV/m)	Limit (dBμV/m)	Margin	Height	Pol	Azimuth	Corr. (dB/m)
4100.437500	---	46.64	54.00	7.36	100.0	V	243.0	10.1
4100.900000	51.28	---	74.00	22.72	100.0	V	184.0	10.1
4773.837500	52.00	---	74.00	22.00	100.0	V	35.0	11.8
4773.837500	---	47.51	54.00	6.49	100.0	V	35.0	11.8

A.3.5 High Channel, Horizontal

EUT Information

EUT Name:	Smart Key
Model:	3608030-BU51-AA
Test Mode:	TX_High
Test Voltage::	Full Battery
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.231
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

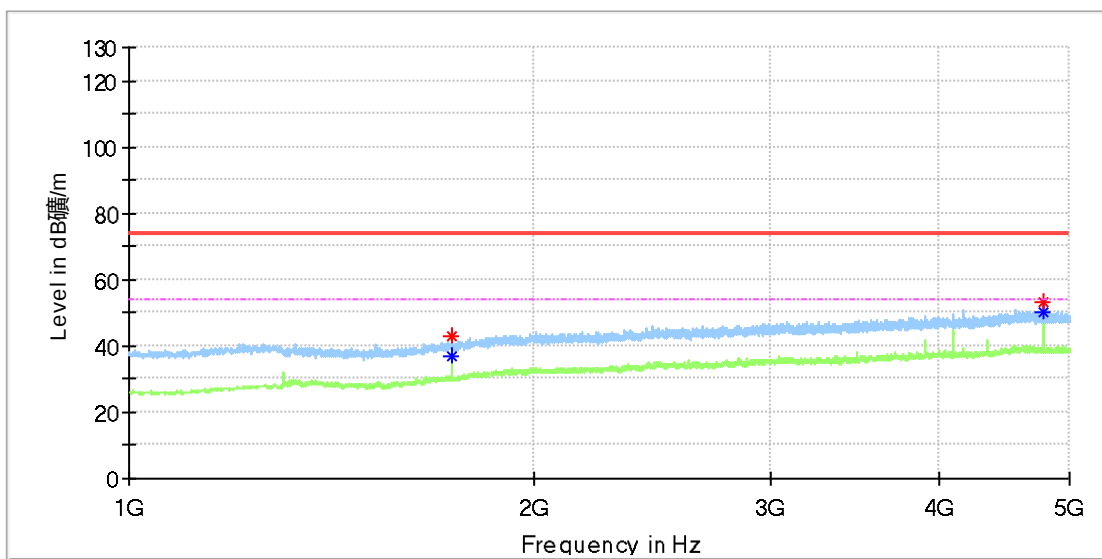
**Critical_Freqs**

Frequency (MHz)	MaxPeak	Average (dBμV/m)	Limit (dBμV/m)	Margin	Height	Pol	Azimuth	Corr. (dB/m)
434.441500	71.34	---	46.00	-25.34	100.0	H	266.0	-13.5
868.759000	39.92	---	46.00	6.08	100.0	H	96.0	-5.7

Remark: the limit for field strength of fundamental is 100.17dBuV/m (PK), 80.17dBuV/m (AV).

EUT Information

EUT Name:	Smart Key
Model:	3608030-BU51-AA
Test Mode:	TX_High
Test Voltage::	Full Battery
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.231
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



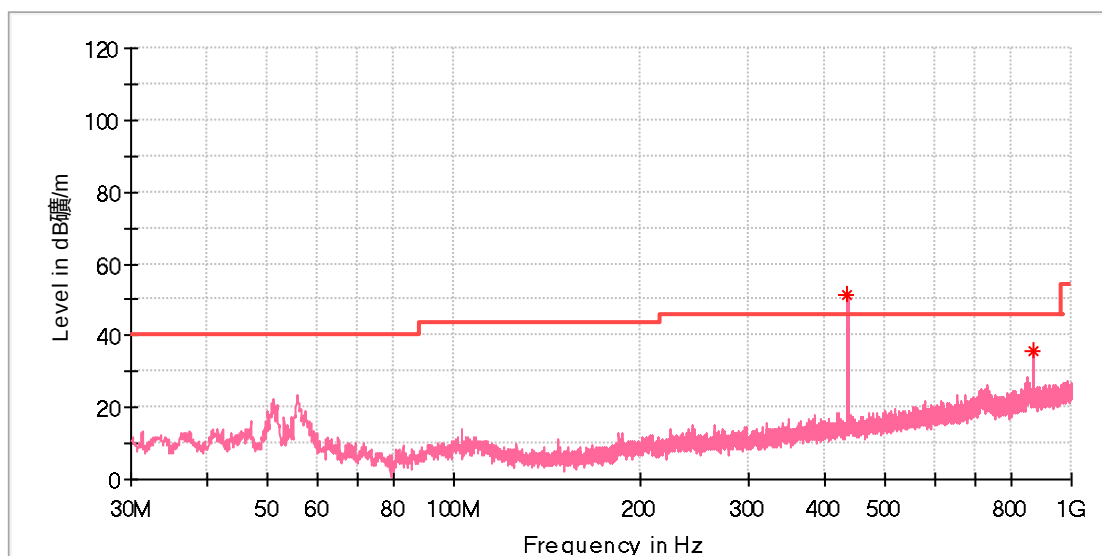
Critical_Freqs

Frequency (MHz)	MaxPeak	Average (dBμV/m)	Limit (dBμV/m)	Margin	Height	Pol	Azimuth	Corr. (dB/m)
1737.062500	42.80	---	74.00	31.20	100.0	H	321.0	3.6
1737.062500	---	36.84	54.00	17.16	100.0	H	321.0	3.6
4778.462500	53.48	---	74.00	20.52	100.0	H	152.0	11.8
4779.387500	---	49.96	54.00	4.04	100.0	H	152.0	11.8

A.3.6 High Channel, Vertical

EUT Information

EUT Name:	Smart Key
Model:	3608030-BU51-AA
Test Mode:	TX_High
Test Voltage::	Full Battery
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.231
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

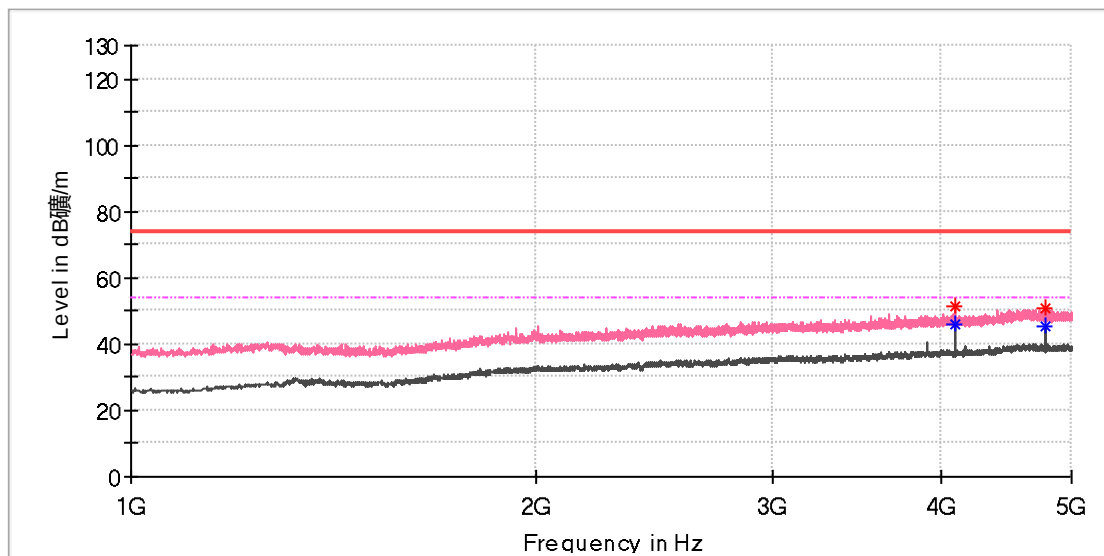
**Critical_Freqs**

Frequency (MHz)	MaxPeak	Average (dBμV/m)	Limit (dBμV/m)	Margin	Height	Pol	Azimuth	Corr. (dB/m)
434.393000	51.19	---	46.00	-5.19	100.0	V	313.0	-13.5
868.759000	35.98	---	46.00	10.02	100.0	V	239.0	-5.7

Remark: the limit for field strength of fundamental is 100.17dBuV/m (PK), 80.17dBuV/m (AV).

EUT Information

EUT Name:	Smart Key
Model:	3608030-BU51-AA
Test Mode:	TX_High
Test Voltage::	Full Battery
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.231
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak	Average (dBμV/m)	Limit (dBμV/m)	Margin	Height	Pol	Azimuth	Corr. (dB/m)
4099.512500	51.28	---	74.00	22.72	100.0	V	331.0	10.1
4100.437500	---	46.06	54.00	7.94	100.0	V	304.0	10.1
4778.925000	---	45.09	54.00	8.91	100.0	V	86.0	11.8
4778.925000	50.86	---	74.00	23.14	100.0	V	86.0	11.8