Prüfbericht-Nr.: *Test Report No.*:	**50378780 001**	**Auftrags-Nr.:** *Order No.*:	168138253	**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*:	Remote-controlled foldable Key			
Bezeichnung / Typ-Nr.: *Identification / Type No.*:	6105930-BU52			
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.*:	A001025841-001			
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: 2AVTF610593052

Zustand des Prüfgegenstandes bei Anlieferung: Prüfmuster vollständig und unbeschädigt
Condition of the test item at delivery: *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 basics 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 Remote-controlled foldable Key for vehicular use.

3.2 RATINGS AND SYSTEM DETAILS

Table 2: Technical Characteristics of EUT

General Information of EUT	Description
Kind of Equipment:	Remote-controlled foldable Key
Type Designation:	6105930-BU52
FCC ID:	2AVTF610593052
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
☐- PCB Layout
☒- Rating Label
☒- Photo Documentation
☒- Circuit Diagram
☒- Bill of Material
☒- Instruction Manual

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

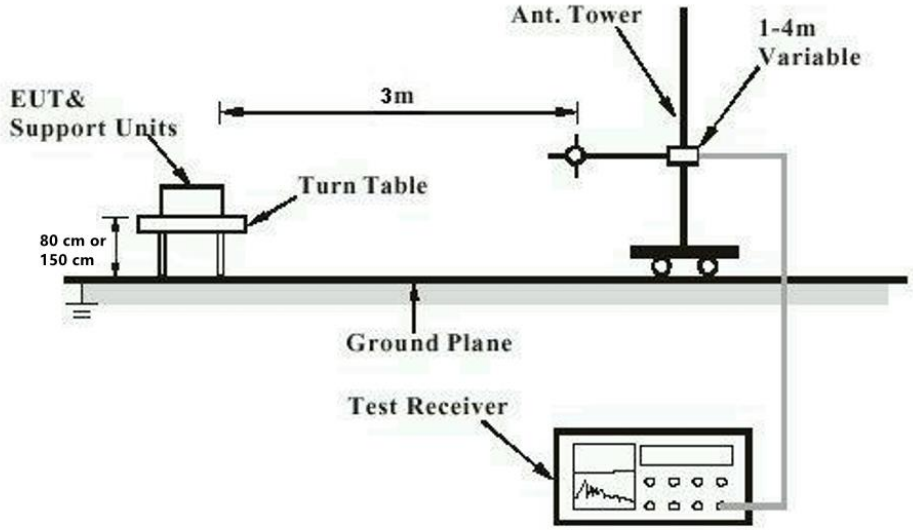


Diagram of Measurement Equipment Configuration for Conduction Measurement

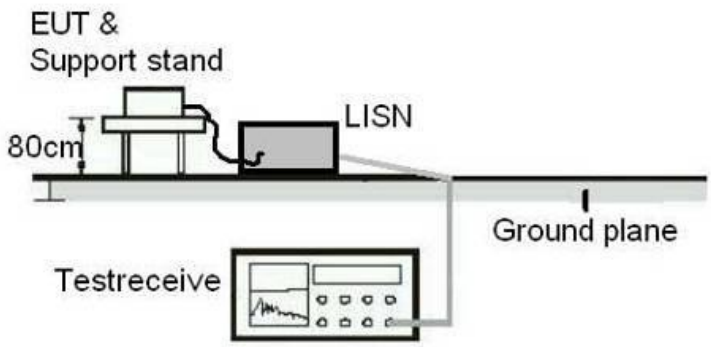
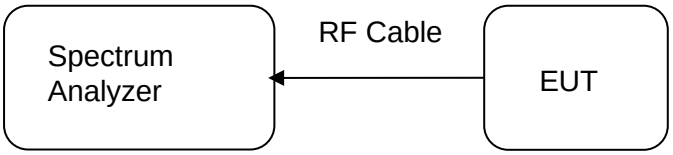


Diagram of Measurement Equipment Configuration for Transmitter Measurement



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 ºC
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.

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.: 80.13dBuV/m@3m=-15.03dBm=0.03mW

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.		

7. LIST OF TABLES

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Appendix A

Test Results

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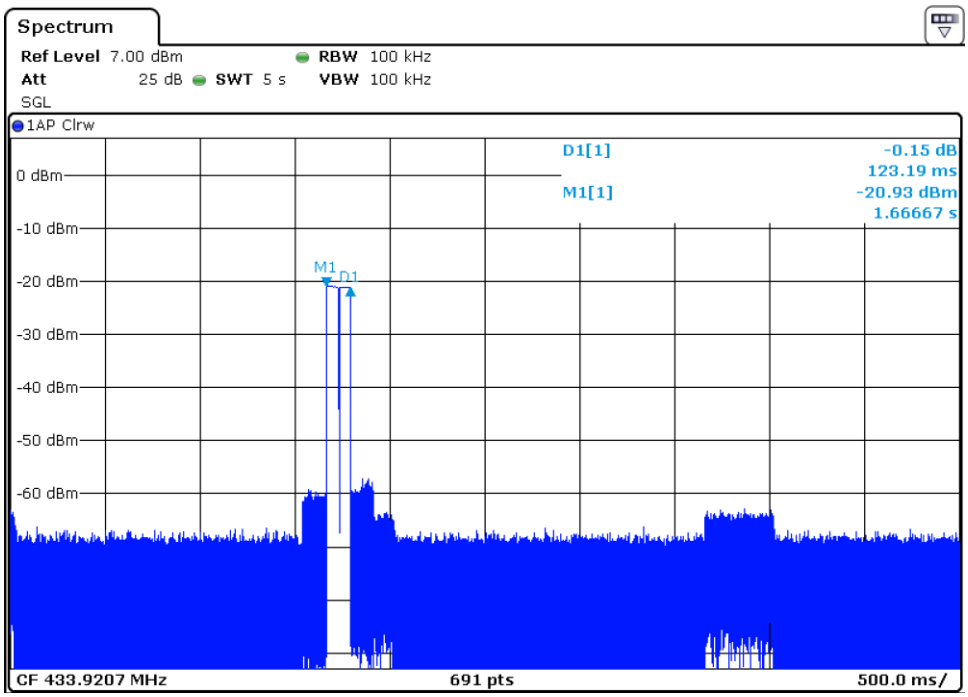
A.3.5 HIGH CHANNEL, HORIZONTAL 13
A.3.6 HIGH CHANNEL, VERTICAL 15

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

Test Results

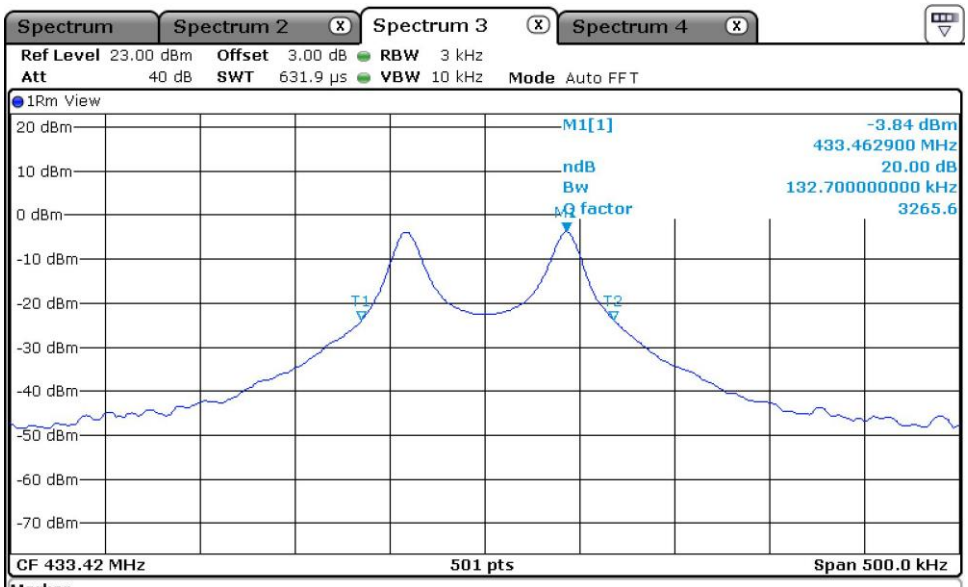
Operation Mode	Duration Time (S)	Limit (S)	Result
A	0.123	5	Pass



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

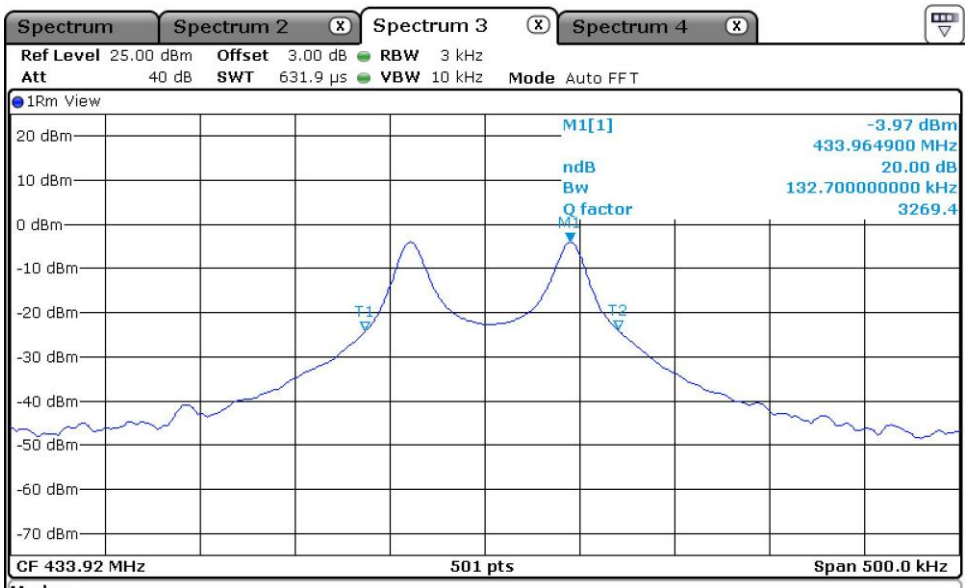
Test Results

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



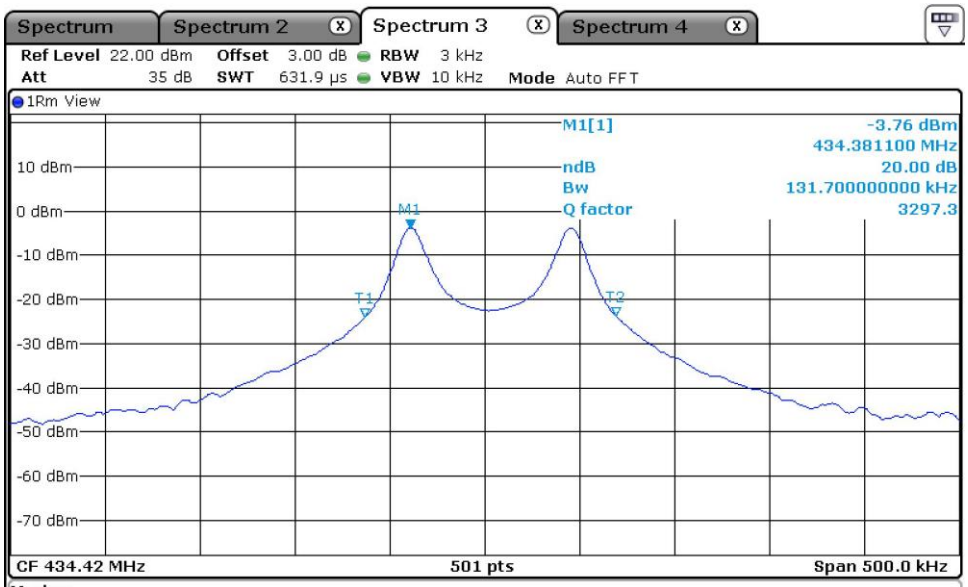
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	433.4629 MHz	-3.84 dBm	ndB down	132.7 kHz
T1		1	433.3551 MHz	-23.85 dBm	ndB	20.00 dB
T2		1	433.4879 MHz	-23.93 dBm	Q factor	3265.6



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	433.9649 MHz	-3.97 dBm	ndB down	132.7 kHz
T1		1	433.8571 MHz	-24.16 dBm	ndB	20.00 dB
T2		1	433.9899 MHz	-23.90 dBm	Q factor	3269.4



Marker

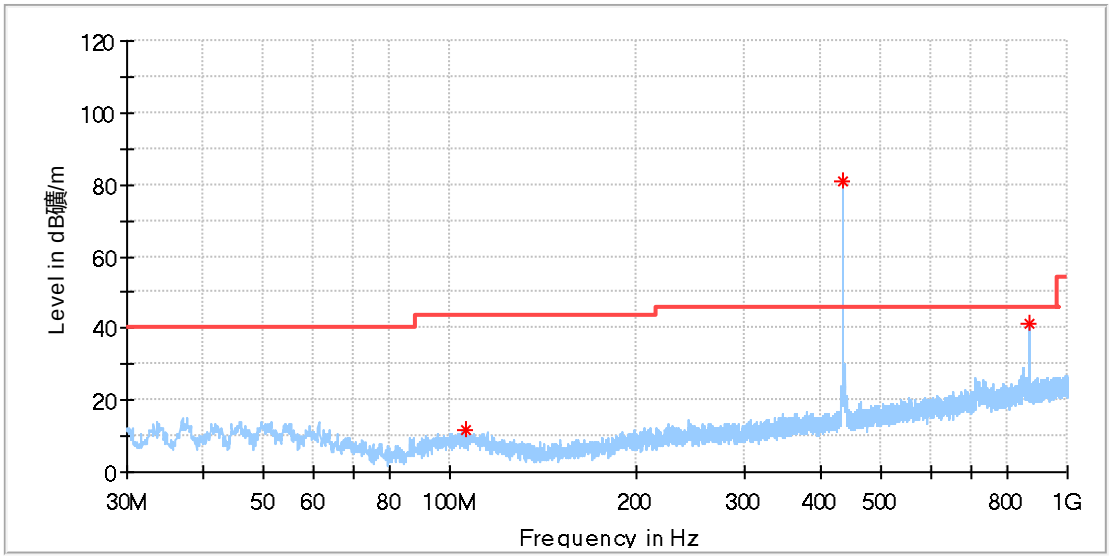
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	434.3811 MHz	-3.76 dBm	ndB down	131.7 kHz
T1		1	434.3571 MHz	-23.96 dBm	ndB	20.00 dB
T2		1	434.4889 MHz	-23.78 dBm	Q factor	3297.3

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:	Wireless Key
Model:	6105930-BU52
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



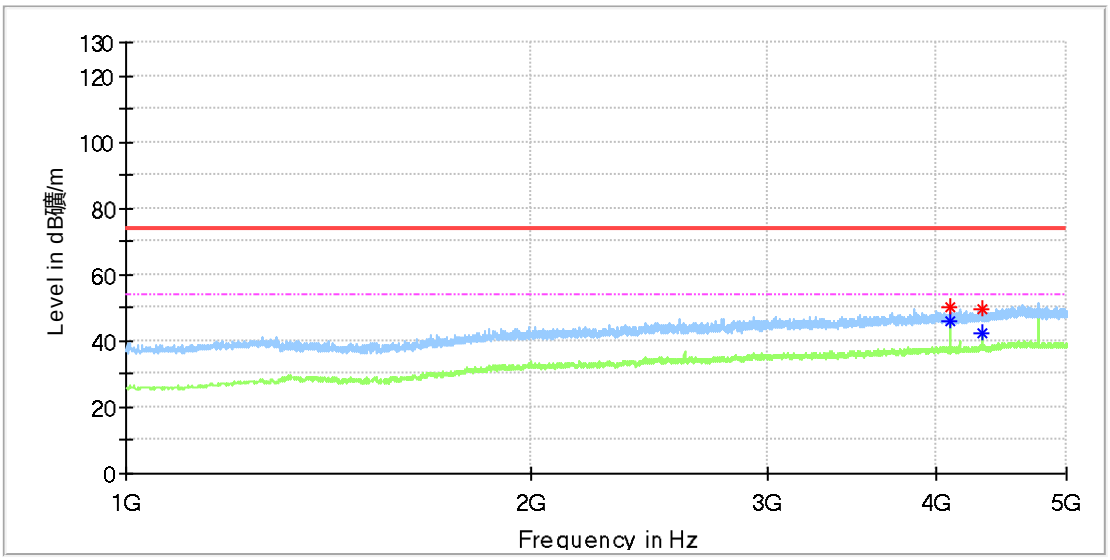
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
105.854000	12.00	---	43.50	31.50	100.0	H	210.0	-19.1
433.374500	80.03	---	46.00	-35.03	100.0	H	69.0	-13.5
866.916000	41.26	---	46.00	4.74	100.0	H	44.0	-5.7

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

EUT Information

EUT Name:	Wireless Key
Model:	6105930-BU52
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



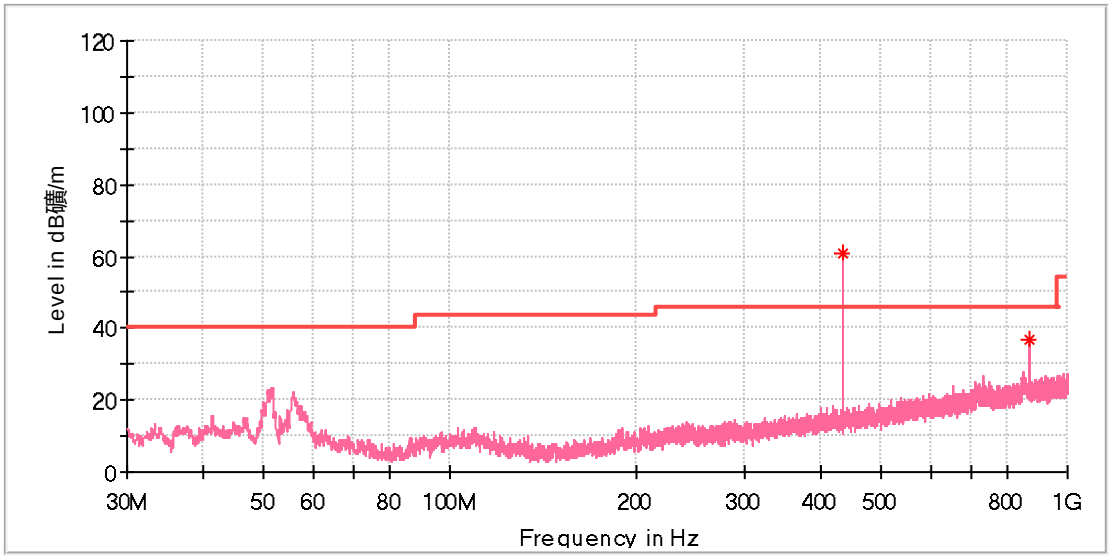
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4100.437500	50.42	---	74.00	23.58	100.0	H	13.0	10.1
4100.437500	---	46.12	54.00	7.88	100.0	H	13.0	10.1
4334.000000	49.50	---	74.00	24.50	100.0	H	176.0	10.5
4334.000000	---	42.61	54.00	11.39	100.0	H	176.0	10.5

A.3.2 Low Channel, Vertical

EUT Information

EUT Name:	Wireless Key
Model:	6105930-BU52
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



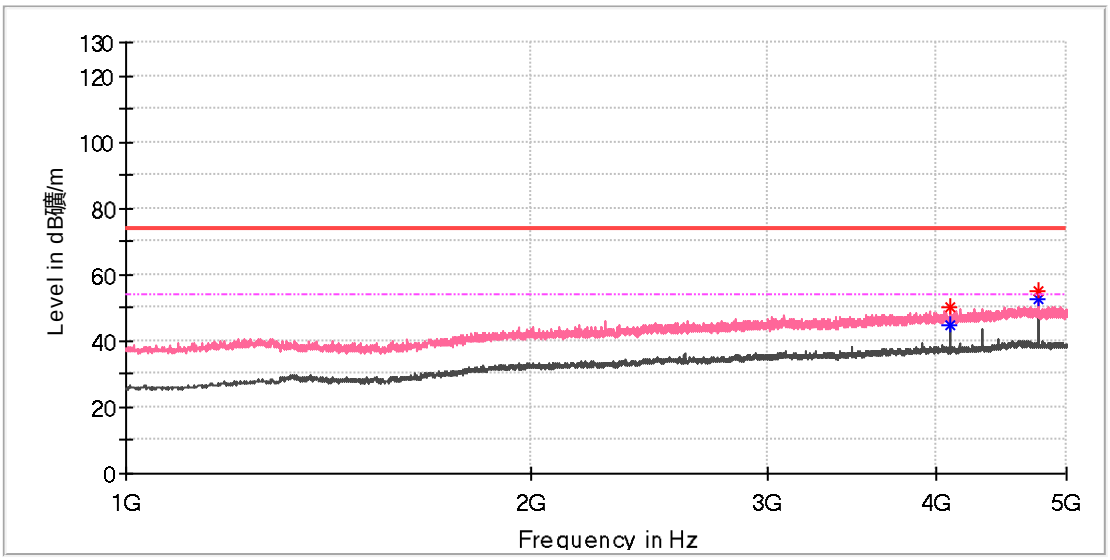
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
433.374500	60.74	---	46.00	-14.74	100.0	V	94.0	-13.5
866.916000	37.06	---	46.00	8.94	100.0	V	94.0	-5.7

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

EUT Information

EUT Name:	Wireless Key
Model:	6105930-BU52
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



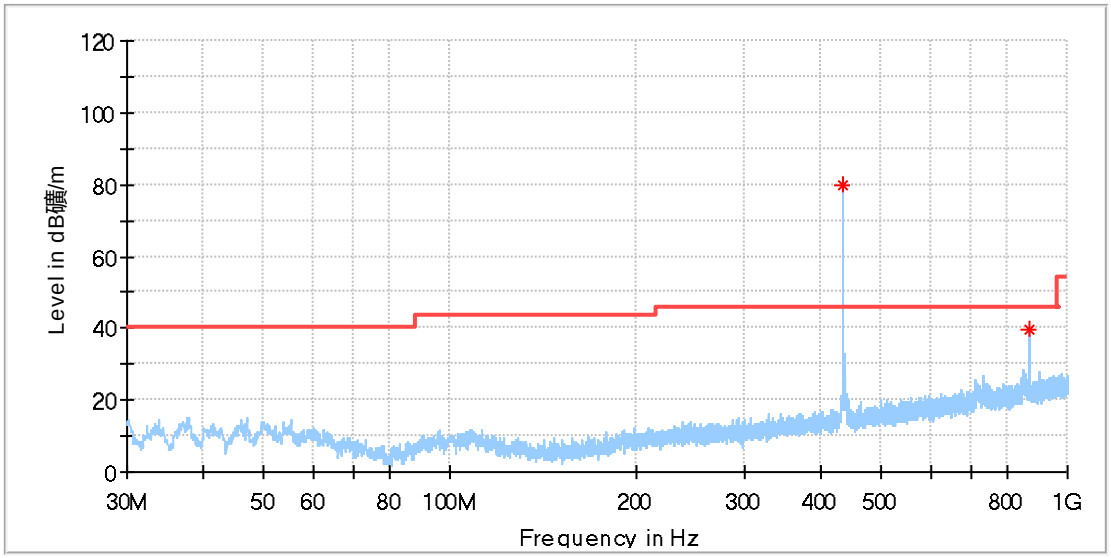
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4100.437500	50.02	---	74.00	23.98	100.0	V	23.0	10.1
4100.437500	---	44.52	54.00	9.48	100.0	V	23.0	10.1
4767.362500	55.31	---	74.00	18.69	100.0	V	195.0	11.8
4767.362500	---	52.52	54.00	1.48	100.0	V	195.0	11.8

A.3.3 Middle Channel, Horizontal

EUT Information

EUT Name:	Wireless Key
Model:	6105930-BU52
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



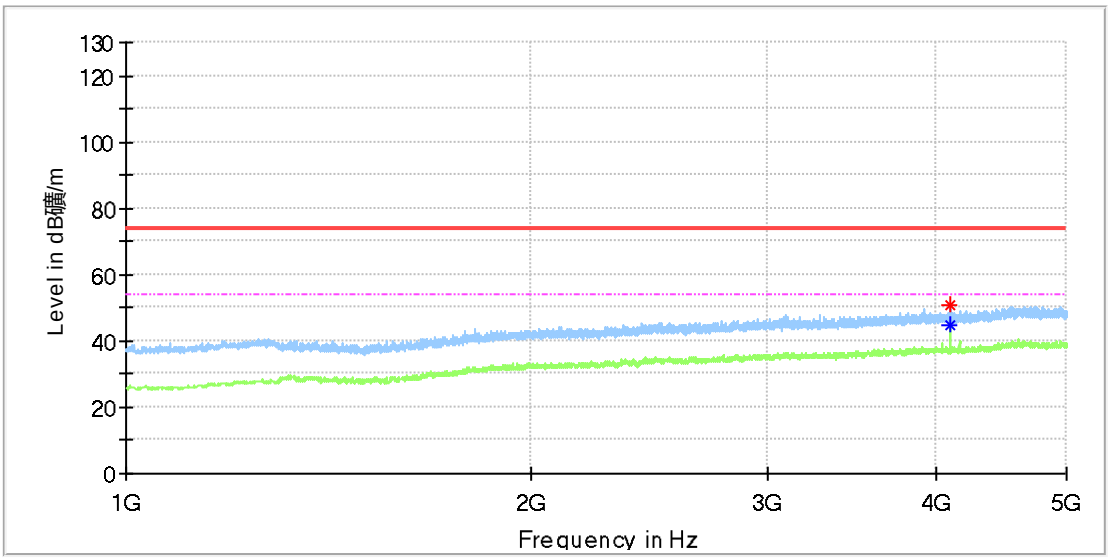
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
433.859500	79.85	---	46.00	-33.85	100.0	H	76.0	-13.5
867.789000	39.71	---	46.00	6.29	100.0	H	216.0	-5.7

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

EUT Information

EUT Name:	Wireless Key
Model:	6105930-BU52
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



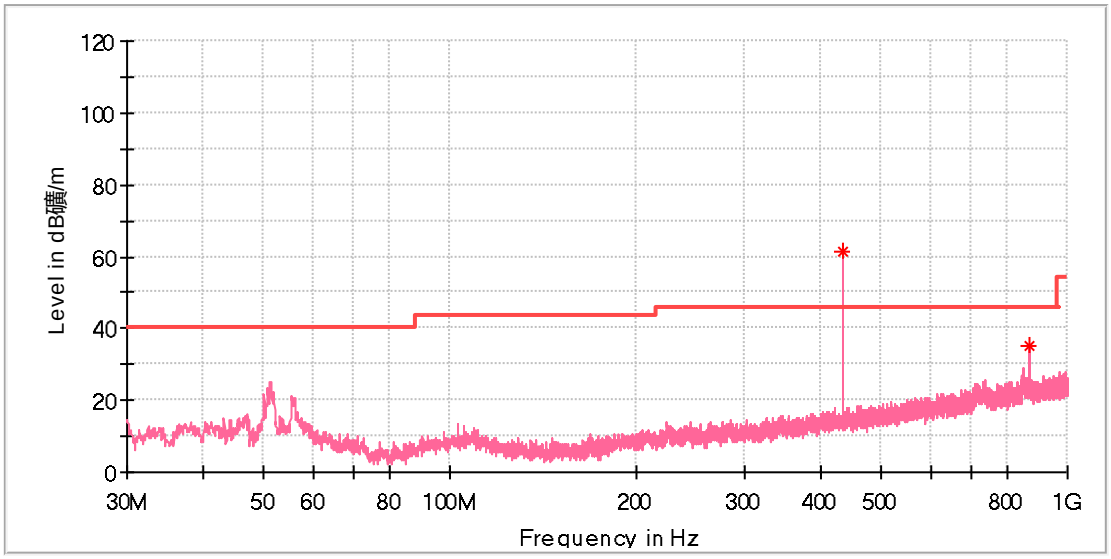
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4099.975000	50.54	---	74.00	23.46	100.0	H	58.0	10.1
4100.437500	---	44.47	54.00	9.53	100.0	H	99.0	10.1

A.3.4 Middle Channel, Vertical

EUT Information

EUT Name:	Wireless Key
Model:	6105930-BU52
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



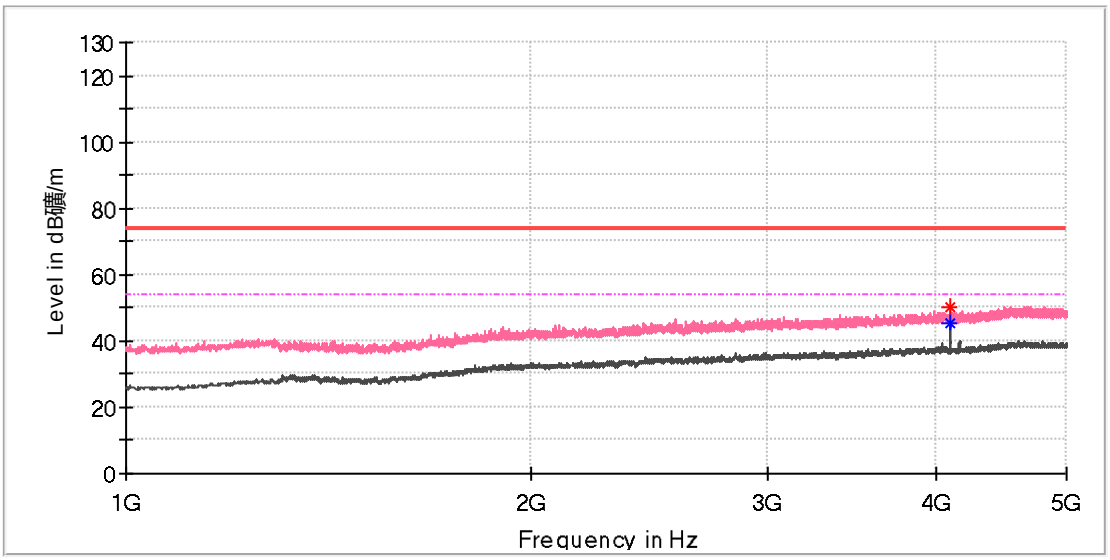
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
433.859500	61.16	---	46.00	-15.16	100.0	V	4.0	-13.5
867.983000	35.33	---	46.00	10.67	100.0	V	256.0	-5.7

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

EUT Information

EUT Name:	Wireless Key
Model:	6105930-BU52
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



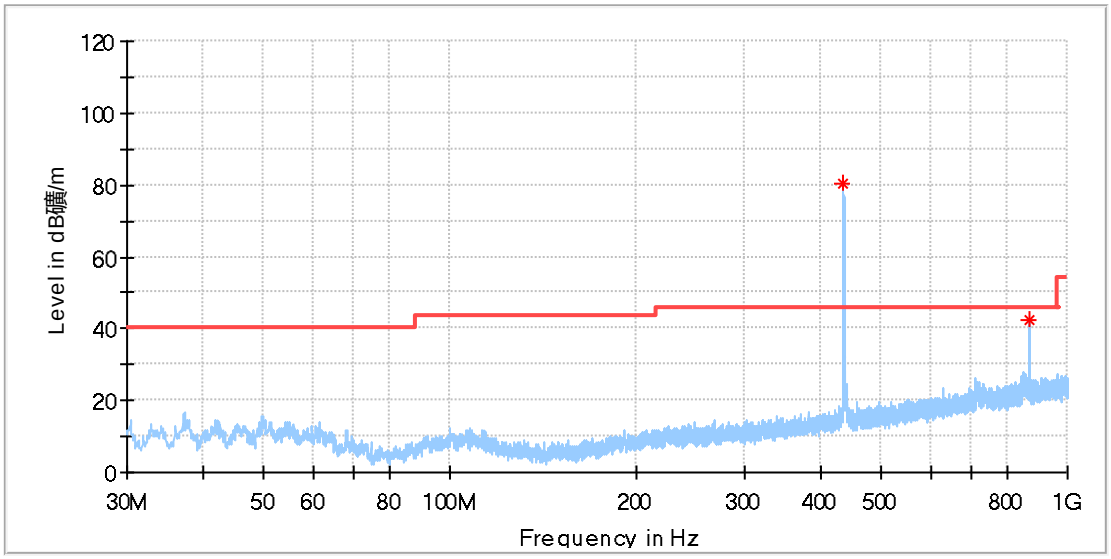
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4099.512500	50.45	---	74.00	23.55	100.0	V	13.0	10.1
4100.437500	---	45.48	54.00	8.52	100.0	V	144.0	10.1

A.3.5 High Channel, Horizontal

EUT Information

EUT Name:	Wireless Key
Model:	6105930-BU52
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



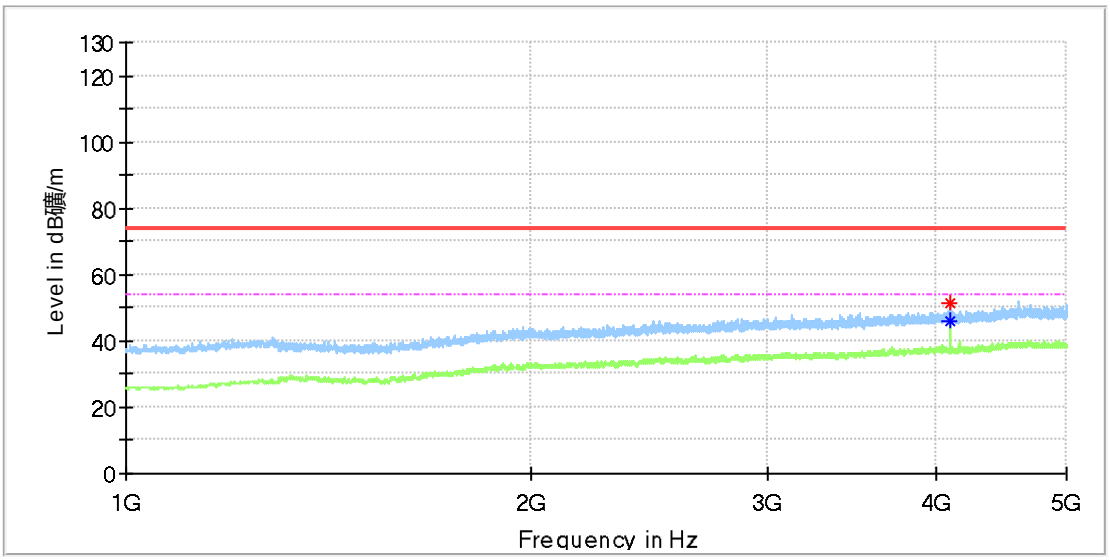
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
434.393000	80.13	---	46.00	-34.13	100.0	H	266.0	-13.5
868.759000	42.55	---	46.00	3.45	100.0	H	266.0	-5.7

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

EUT Information

EUT Name:	Wireless Key
Model:	6105930-BU52
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



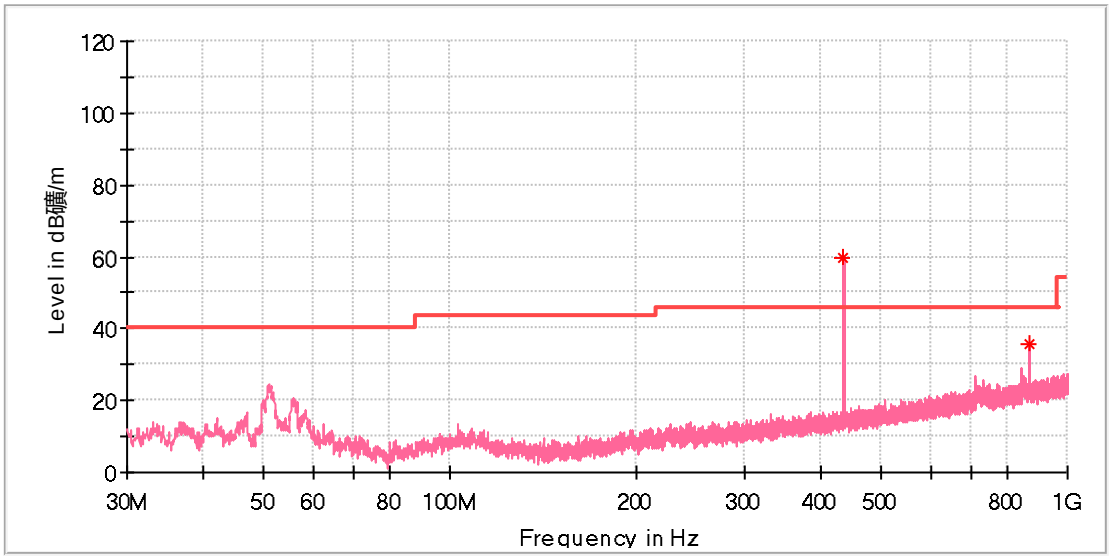
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4100.437500	51.56	---	74.00	22.44	100.0	H	90.0	10.1
4100.437500	---	45.84	54.00	8.16	100.0	H	90.0	10.1

A.3.6 High Channel, Vertical

EUT Information

EUT Name:	Wireless Key
Model:	6105930-BU52
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



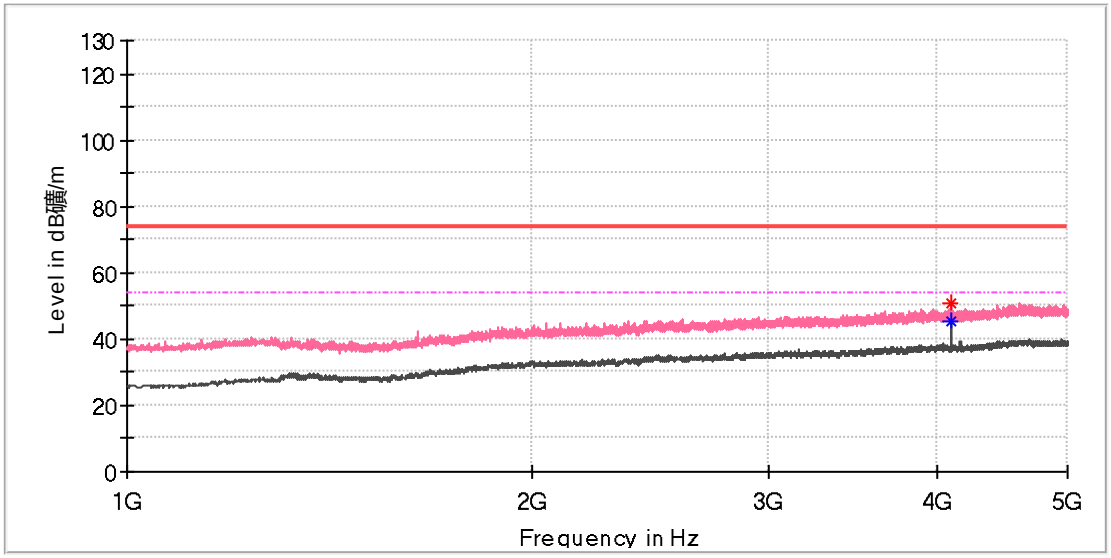
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
434.441500	59.63	---	46.00	-13.63	100.0	V	154.0	-13.5
868.953000	35.90	---	46.00	10.10	100.0	V	63.0	-5.7

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

EUT Information

EUT Name:	Wireless Key
Model:	6105930-BU52
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 (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4099.512500	50.87	---	74.00	23.13	100.0	V	172.0	10.1
4099.975000	---	45.12	54.00	8.88	100.0	V	180.0	10.1