

APPLICATION CERTIFICATION
On Behalf of
NINGHAI VISTA INDUSTRIAL CO., LTD.

Wireless remote controller
Model No.: SXJ-203

FCC ID: WJ7SXJ203

Prepared for : NINGHAI VISTA INDUSTRIAL CO., LTD.
Address : Wangjia Village, Xidian Town, Ninghai, Ningbo, Zhejiang
China

Prepared by : ACCURATE TECHNOLOGY CO. LTD
Address : F1, Bldg. A, Changyuan New Material Port, Keyuan Rd.
Science & Industry Park, Nanshan, Shenzhen, Guangdong
P.R. China

Tel: (0755) 26503290
Fax: (0755) 26503396

Report Number : ATE20081413
Date of Test : July 21-25, 2008
Date of Report : July 26, 2008

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APPENDIX I (TEST CURVES) (10 pages)

Test Report Certification

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.231: 2007 & ANSI 63.4: 2003

The device described above is tested by ACCURATE TECHNOLOGY CO. LTD to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C Section 15.231. The measurement results are contained in this test report and ACCURATE TECHNOLOGY CO. LTD is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of ACCURATE TECHNOLOGY CO. LTD.

Date of Test : July 21-25, 2008

Prepared by :

stay strong

(Engineer)

Approved & Authorized Signer :

Sean (-)

(Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT : Wireless remote controller
 Model Number : SXJ-203
 Power Supply : 12V DC ("23A" battery 1×)
 Operation Frequency : 315MHz
 Applicant : NINGHAI VISTA INDUSTRIAL CO., LTD.
 Address : Wangjia Village, Xidian Town, Ninghai, Ningbo, Zhejiang China
 Manufacturer : NINGHAI VISTA INDUSTRIAL CO., LTD.
 Address : Wangjia Village, Xidian Town, Ninghai, Ningbo, Zhejiang China
 Date of sample received : July 20, 2008
 Date of Test : July 21-25, 2008

1.2. Description of Test Facility

EMC Lab : Accredited by TUV Rheinland Shenzhen
 Listed by FCC
 The Registration Number is 752051
 Listed by Industry Canada
 The Registration Number is 5077A-2
 Accredited by China National Accreditation Committee
 for Laboratories
 The Certificate Registration Number is L3193
 Name of Firm : ACCURATE TECHNOLOGY CO. LTD
 Site Location : F1, Bldg. A, Changyuan New Material Port, Keyuan Rd.
 Science & Industry Park, Nanshan, Shenzhen, Guangdong
 P.R. China

1.3.Measurement Uncertainty

Conducted emission expanded uncertainty = 2.23dB, k=2

Radiated emission expanded uncertainty = 4.12dB, k=2

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

Kind of equipment	Manufacturer	Type	S/N	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	03.29.2009
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	03.29.2009
Spectrum Analyzer	Agilent	E7405A	MY45115511	03.29.2009
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	03.31.2009
Loop Antenna	Schwarzbeck	FMZB1516	1516131	03.28.2009
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	03.29.2009
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	12.20.2008
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	10.10.2008
LISN	Rohde&Schwarz	ESH3-Z5	100305	03.29.2009
LISN	Schwarzbeck	NLSK8126	8126431	03.29.2009

3. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
Section 15.207	Conducted Emission	N/A
Section 15.231(b)	Radiated Emission	Compliant
Section 15.231(c)	20dB Bandwidth	Compliant
Section 15.231(a)(1)	Release Time Measurement	Compliant

The product is a manually operated remote control transmitter.

Section 15.231 (a) (2), (3), (4) and (5) are not applicable.

4. THE FIELD STRENGTH OF RADIATION EMISSION

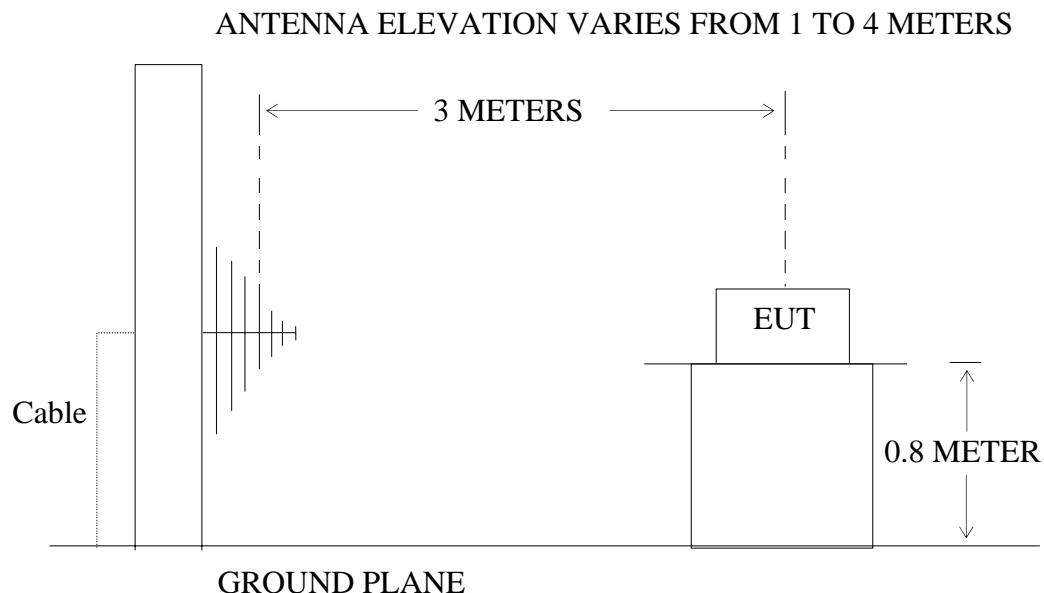
4.1. Block Diagram of Test Setup

4.1.1. Block diagram of connection between the EUT and simulators



(EUT: Wireless remote controller)

4.1.2. Anechoic Chamber Test Setup Diagram



(EUT: Wireless remote controller)

4.2.The Field Strength of Radiation Emission Measurement Limits

4.2.1.Radiation Emission Measurement Limits According to FCC Part 15 Section 15.231(b)

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [Average] [μ V/m]	Field Strength of Spurious Emission [Average] [μ V/m]
40.66-40.70	2250	225
70-130	1250	125
130-174	1250-3750	125-375
174-260	3750	375
260-470	3750-12500	375-1250
Above 470	12500	1250

Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 130-174 MHz, μ V/m at 3 meters = $56.81818(F) - 6136.3636$; for the band 260-470 MHz, μ V/m at 3 meters = $41.6667(F) - 7083.3333$. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.

4.2.2.Restricted Band Radiation Emission Measurement Limits According to FCC part 15 Section 15.205 and Section15.209.

4.3.Configuration of EUT on Measurement

The following equipment is installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

4.3.1. Wireless remote controller (EUT)

Model Number : SXJ-203
 Serial Number : N/A
 Manufacturer : NINGHAI VISTA INDUSTRIAL CO., LTD.

4.4.Operating Condition of EUT

4.4.1.Setup the EUT and simulator as shown as Section 4.1.

4.4.2.Turn on the power of all equipment.

4.4.3.Let the EUT work in measuring mode (TX) measure it.

4.5. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bi-log antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the EUT location must be manipulated according to ANSI 63.4 on radiated emission measurement.

The bandwidth of test receiver is set at 120kHz in 30-1000MHz, and 1MHz in 1000-4000MHz.

The frequency range from 30MHz to 4000MHz is checked.

4.6. The Field Strength of Radiation Emission Measurement Results

PASS.

The frequency range 30MHz to 4000MHz is investigated.

Date of Test:	July 25, 2008	Temperature:	25°C
EUT:	Wireless remote controller	Humidity:	52%
Model No.:	SXJ-203	Power Supply:	12V DC ("23A" battery 1×)
Test Mode:	TX	Test Engineer:	Feng

Frequency (MHz)	Reading (dB μ V/m)	Factor Corr.	Average Factor	Result(dB μ V/m)		Limit(dB μ V/m)		Margin(dB μ V/m)		Polarization
	PEAK	(dB)	(dB)	AV	PEAK	AV	PEAK	AV	PEAK	
314.9156	59.28	19.19	-8.2	70.27	78.47	75.6	95.6	-5.33	-17.13	Horizontal
629.9366	33.18	26.06	-8.2	51.04	59.24	55.6	75.6	-4.56	-16.36	
944.7489	28.17	29.44	-8.2	49.41	57.61	55.6	75.6	-6.19	-17.99	
1259.663	68.50	-12.28	-8.2	48.02	56.22	55.6	75.6	-7.58	-19.38	
*1574.578	67.53	-11.04	-8.2	48.29	56.49	54.0	74.0	-5.71	-17.51	
1889.494	66.13	-9.68	-8.2	48.25	56.45	55.6	75.6	-7.35	-19.15	
*2204.506	65.59	-8.18	-8.2	49.21	57.41	54.0	74.0	-4.79	-16.59	
2519.497	64.43	-7.23	-8.2	49.00	57.20	55.6	75.6	-6.60	-18.40	
*2834.474	63.66	-5.96	-8.2	49.50	57.70	54.0	74.0	-4.50	-16.30	
3149.468	63.50	-4.35	-8.2	50.95	59.15	55.6	75.6	-4.65	-16.45	
3464.491	57.66	-3.36	-8.2	46.10	54.30	55.6	75.6	-9.50	-21.30	
*3779.476	55.11	-2.24	-8.2	44.67	52.87	54.0	74.0	-9.33	-21.13	
314.9156	57.93	19.19	-8.2	68.92	77.12	75.6	95.6	-6.68	-18.48	Vertical
629.9366	32.89	26.06	-8.2	50.75	58.95	55.6	75.6	-4.85	-16.65	
944.7489	26.70	29.44	-8.2	47.94	56.14	55.6	75.6	-7.66	-19.46	
1259.663	65.68	-12.28	-8.2	45.20	53.40	55.6	75.6	-10.40	-22.20	
*1574.578	64.96	-11.04	-8.2	45.72	53.92	54.0	74.0	-8.28	-20.08	
1889.494	63.85	-9.68	-8.2	45.97	54.17	55.6	75.6	-9.63	-21.43	
*2204.506	63.58	-8.18	-8.2	47.20	55.40	54.0	74.0	-6.80	-18.60	
2519.497	63.11	-7.23	-8.2	47.68	55.88	55.6	75.6	-7.92	-19.72	
*2834.474	62.14	-5.96	-8.2	47.98	56.18	54.0	74.0	-6.02	-17.82	
3149.468	62.82	-4.35	-8.2	50.27	58.47	55.6	75.6	-5.33	-17.13	
3464.491	55.78	-3.36	-8.2	44.22	52.42	55.6	75.6	-11.38	-23.18	
*3779.476	53.55	-2.24	-8.2	43.11	51.31	54.0	74.0	-10.89	-22.69	

Note:

1. *: Denotes restricted band of operation.

Measurements were made using a peak detector and average detector. Any emission falling within the restricted bands of FCC Part 15 Section 15.205 were compliance with the emission limit of FCC Part 15 Section 15.209.

2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain

3. FCC Limit for Average Measurement = $41.6667(315) - 7083.3333 = 6041.6772 \mu\text{V/m} = 75.6 \text{dB}\mu\text{V/m}$

4. The spectral diagrams in appendix I display the measurement of peak values.

5. 20DB OCCUPIED BANDWIDTH

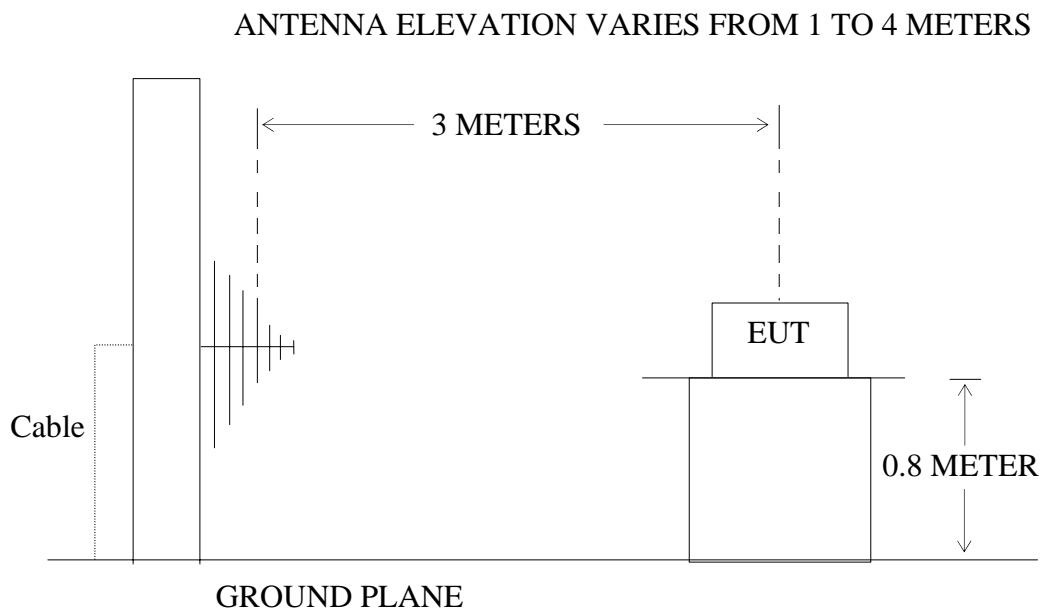
5.1. Block Diagram of Test Setup

5.1.1. Block diagram of connection between the EUT and simulators



(EUT: Wireless remote controller)

5.1.2. Anechoic Chamber Test Setup Diagram



(EUT: Wireless remote controller)

5.2. The Bandwidth of Emission Limit According To FCC Part 15 Section

15.231(c)

The bandwidth of emission shall be no wider than 0.25% of the center frequency. Therefore, the bandwidth of the emission limit is $315\text{MHz} \times 0.25\% = 787.5\text{kHz}$. Bandwidth is determined at the two points 20 dB down from the top of modulated carrier.

5.3.EUT Configuration on Measurement

The following equipment are installed on the bandwidth of emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

5.3.1.Wireless remote controller (EUT)

Model Number : SXJ-203
Serial Number : N/A
Manufacturer : NINGHAI VISTA INDUSTRIAL CO., LTD.

5.4.Operating Condition of EUT

5.4.1.Setup the EUT and simulator as shown as Section 5.1.

5.4.2.Turn on the power of all equipment.

5.4.3.Let the EUT work in measuring mode (TX) measure it.

5.5.Test Procedure

5.5.1.Set SPA Center Frequency = Fundamental frequency, RBW = 10kHz, VBW = 30kHz, Span = 1000kHz.

5.5.2.Set SPA Max hold. Mark peak, -20dB

5.6.Measurement Result

The EUT does meet the FCC requirement.

-20dB bandwidth = 65.0kHz < 787.5kHz.

The spectral diagrams in appendix I.

6. RELEASE TIME MEASUREMENT

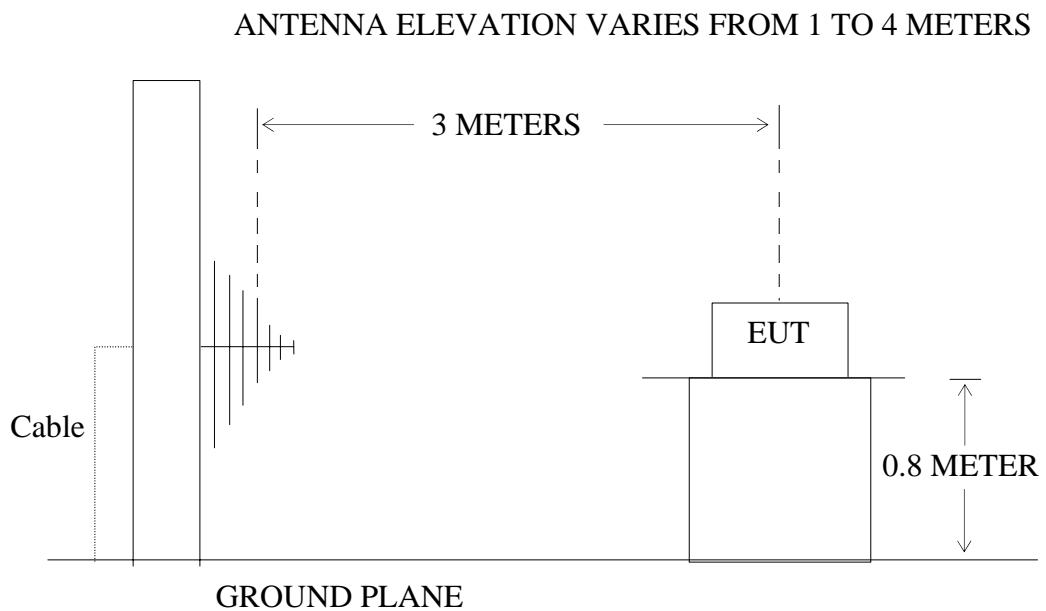
6.1. Block Diagram of Test Setup

6.1.1. Block diagram of connection between the EUT and simulators



(EUT: Wireless remote controller)

6.1.2. Anechoic Chamber Test Setup Diagram



(EUT: Wireless remote controller)

6.2. Release Time Measurement According To FCC Part 15 Section 15.231(a)

Section 15.231(a) (1) A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

6.3.EUT Configuration on Measurement

The following equipment are installed on Release Time Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

6.3.1. Wireless remote controller (EUT)

Model Number : SXJ-203
Serial Number : N/A
Manufacturer : NINGHAI VISTA INDUSTRIAL CO., LTD.

6.4.Operating Condition of EUT

6.4.1. Setup the EUT and simulator as shown as Section 6.1.

6.4.2. Turn on the power of all equipment.

6.4.3. Let the EUT work in measuring mode (TX) measure it.

6.5.Test Procedure

6.5.1. Set SPA Center Frequency = Fundamental frequency, RBW = 100kHz, VBW = 300kHz, Span = 0Hz. Sweep time = 5 seconds.

6.5.2. Set EUT as normal operation and press Transmitter button.

6.5.3. Set SPA View. Delta Mark time.

6.6. Measurement Result

The release time less than 5 seconds.

Release Time= 1.85 s

The spectral diagrams in appendix I.

7. AVERAGE FACTOR MEASUREMENT

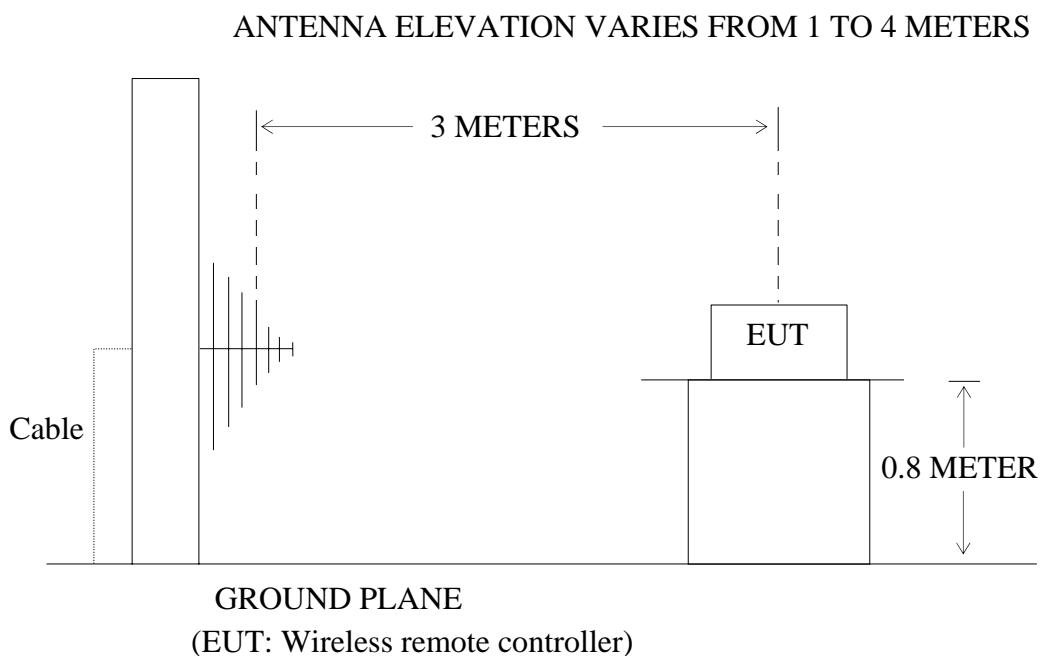
7.1. Block Diagram of Test Setup

7.1.1. Block diagram of connection between the EUT and simulators



(EUT: Wireless remote controller)

7.1.2. Anechoic Chamber Test Setup Diagram



7.2. Average factor Measurement according to ANSI 63.4: 2003

ANSI 63.4: 2003 Section 13.1.4.2 Devices transmitting pulsed emissions and subject to a limit requiring an average detector function for radiated emissions shall initially be measured with an instrument that uses a peak detector. A radiated emission measured with a peak detector may then be corrected to a true average using the appropriate factor for emission duty cycle. This correction factor relates the measured peak level to the average limit and is derived by averaging absolute field strength over one complete pulse train that is 0.1 s, or less, in length. If the pulse train is longer than 0.1 s, the average shall be determined from the average absolute field strength during the 0.1 s interval in which the field strength is at a maximum. Instructions on calculating the duty cycle of a transmitter with pulsed emissions are provided in ANSI 63.4 H.4, step j.

Average factor in dB = 20 log (duty cycle)

7.3.EUT Configuration on Measurement

The following equipment are installed on average factor Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

7.3.1. Wireless remote controller (EUT)

Model Number : SXJ-203
 Serial Number : N/A
 Manufacturer : NINGHAI VISTA INDUSTRIAL CO., LTD.

7.4.Operating Condition of EUT

7.4.1. Setup the EUT and simulator as shown as Section 7.1.

7.4.2. Turn on the power of all equipment.

7.4.3. Let the EUT work in measuring mode (TX) measure it.

7.5.Test Procedure

7.5.1. The time period over which the duty cycle is measured is 100 milliseconds, or the repetition cycle, whichever is a shorter time frame. The worst case (highest percentage on) duty cycle is used for the calculation.

7.5.2. Set SPA Center Frequency = Fundamental frequency, RBW = 100kHz, VBW = 300kHz, Span = 0Hz.

7.5.3. Set EUT as normal operation.

7.5.4. Set SPA View. Delta Mark time.

7.6. Measurement Result

The duty cycle is simply the on time divided by the period:

The duration of one cycle = 59.58ms

Effective period of the cycle = $(11 \times 1.45) + (14 \times 0.51)$ ms = 23.09ms

$$DC = 23.09\text{ms} / 59.58\text{ms} = 0.3875$$

Therefore, the average factor is found by $20\log 0.3875 = -8.2\text{dB}$

The spectral diagrams in appendix I.

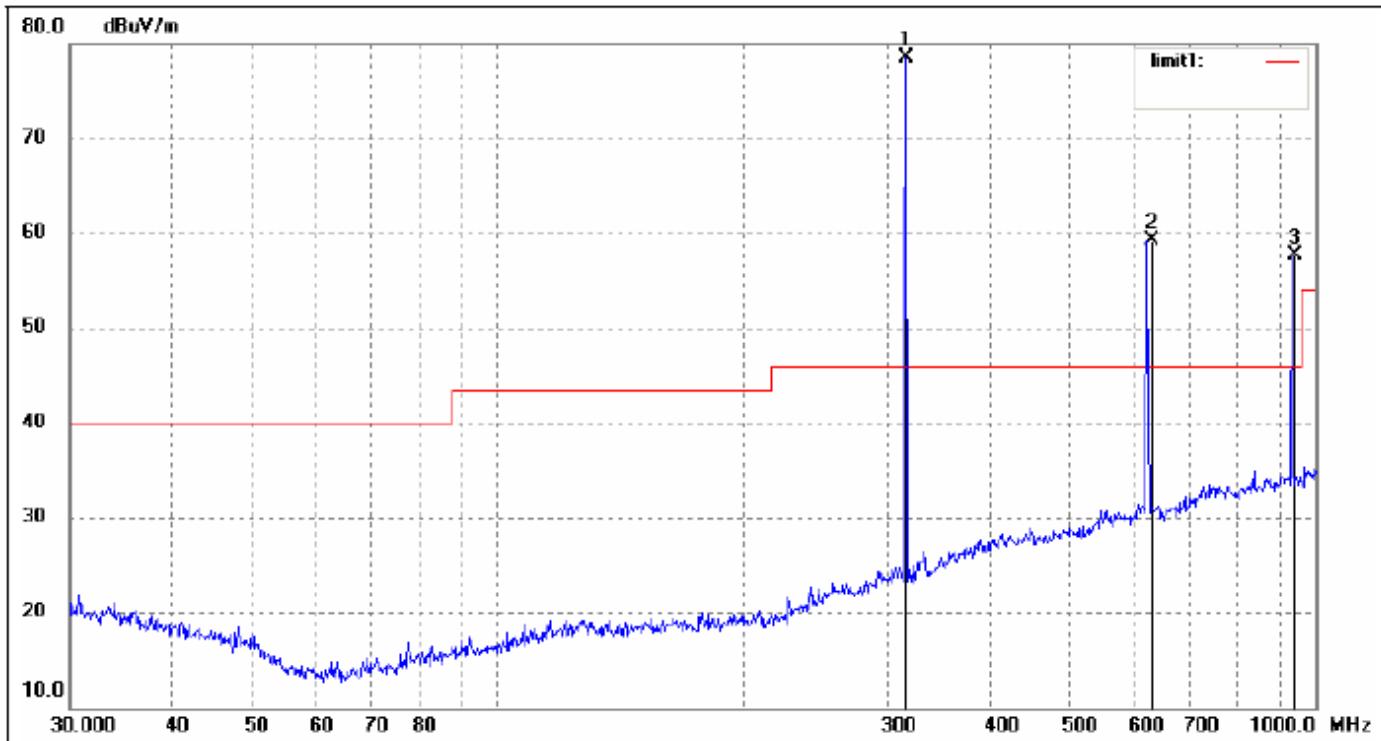
APPENDIX I (Test Curves)



ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Tel:+86-0755-26503290
Fax:+86-0755-26503396
http://www.atc-lab.com

Job No.:	RTTE #213	Polarization:	Horizontal
Standard:	FCC Class B 3M Radiated	Power Source:	DC 12V
Test item:	Radiation Test	Date:	08/07/25/
Temp.(°C)/Hum.(%RH):	25(°C)/52%RH	Time:	9/09/36
EUT:	Wireless remote controller	Engineer Signature:	Feng
Mode:	TX	Distance:	3m
Model:	SXJ-203		
Manufacturer:	VISTA		
Note:	Sample No.:082891	Report No.:ATE20081413	



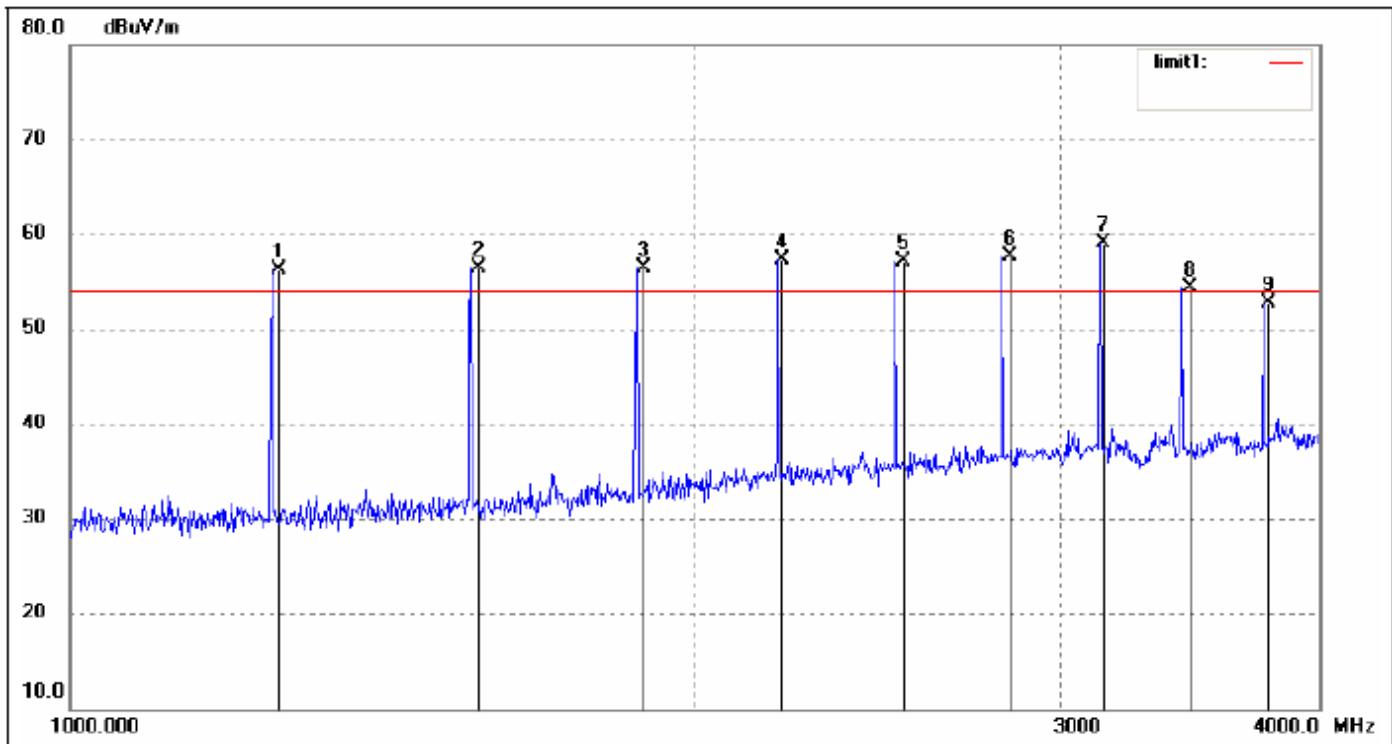
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	314.9156	59.28	19.19	78.47	95.6	-17.13	peak	Fundamental
2	629.9366	33.18	26.06	59.24	75.6	-16.36	peak	Harmonics
3	944.7489	28.17	29.44	57.61	75.6	-17.99	peak	Harmonics



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.ChinaTel:+86-0755-26503290
Fax:+86-0755-26503396
http://www.atc-lab.com

Job No.:	RTTE #217	Polarization:	Horizontal
Standard:	FCC Class B 3M Radiated	Power Source:	DC 12V
Test item:	Radiation Test	Date:	08/07/25/
Temp. (°C)/Hum. (%RH):	25(°C)/52%RH	Time:	14/26/17
EUT:	Wireless remote controller	Engineer Signature:	Feng
Mode:	TX	Distance:	3m
Model:	SXJ-203		
Manufacturer:	VISTA		
Note:	Sample No.:082891	Report No.:ATE20081413	



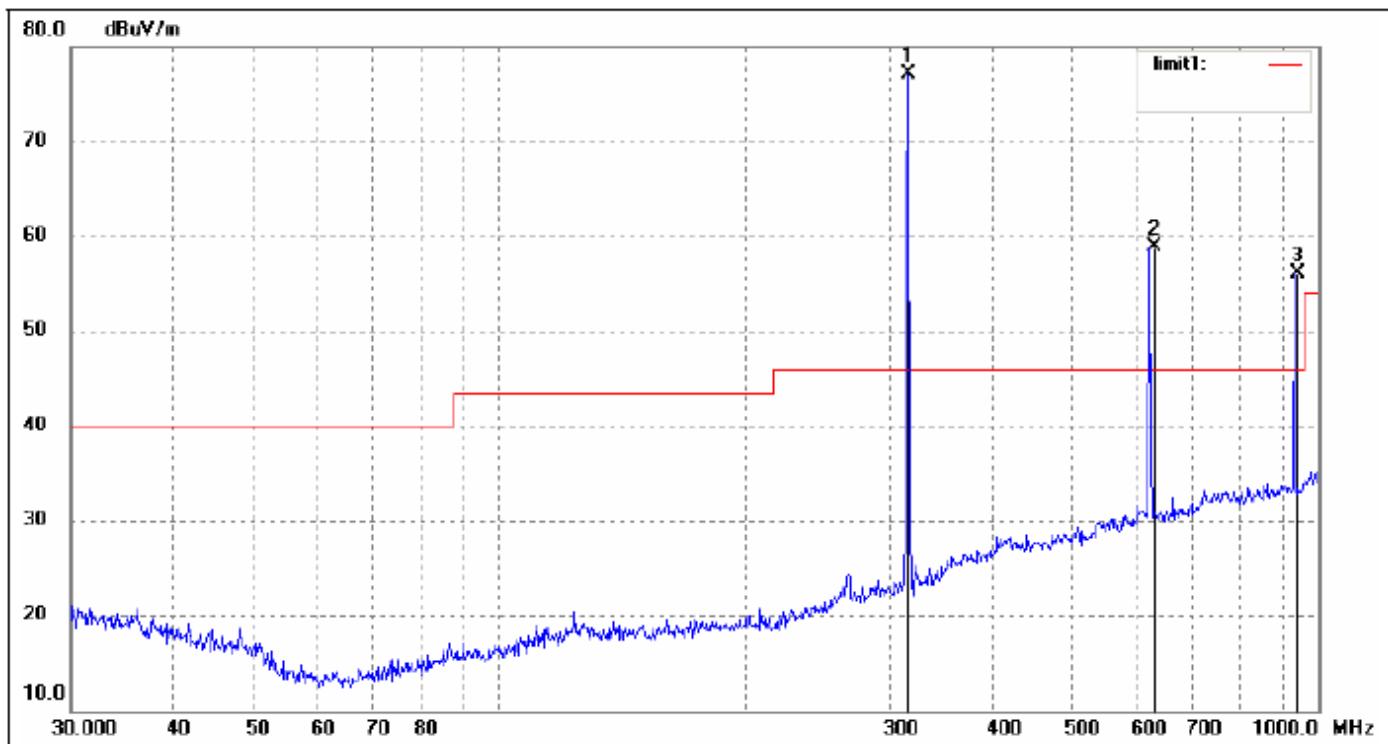
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	1259.663	68.50	-12.28	56.22	75.6	-19.38	peak	Harmonics
2	1574.578	67.53	-11.04	56.49	74.0	-17.51	peak	Restricted
3	1889.494	66.13	-9.68	56.45	75.6	-19.15	peak	Harmonics
4	2204.506	65.59	-8.18	57.41	74.0	-16.59	peak	Restricted
5	2519.497	64.43	-7.23	57.20	75.6	-18.40	peak	Harmonics
6	2834.474	63.66	-5.96	57.70	74.0	-16.30	peak	Restricted
7	3149.468	63.50	-4.35	59.15	75.6	-16.45	peak	Harmonics
8	3464.491	57.66	-3.36	54.30	75.6	-21.30	peak	Harmonics
9	3779.476	55.11	-2.24	52.87	74.0	-21.13	peak	Restricted



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.ChinaTel:+86-0755-26503290
Fax:+86-0755-26503396
http://www.atc-lab.com

Job No.:	RTTE #214	Polarization:	Vertical
Standard:	FCC Class B 3M Radiated	Power Source:	DC 12V
Test item:	Radiation Test	Date:	08/07/25/
Temp.(°C)/Hum.(%RH):	25(°C)/52%RH	Time:	9/13/55
EUT:	Wireless remote controller	Engineer Signature:	Feng
Mode:	TX	Distance:	3m
Model:	SXJ-203		
Manufacturer:	VISTA		
Note:	Sample No.:082891	Report No.:ATE20081413	



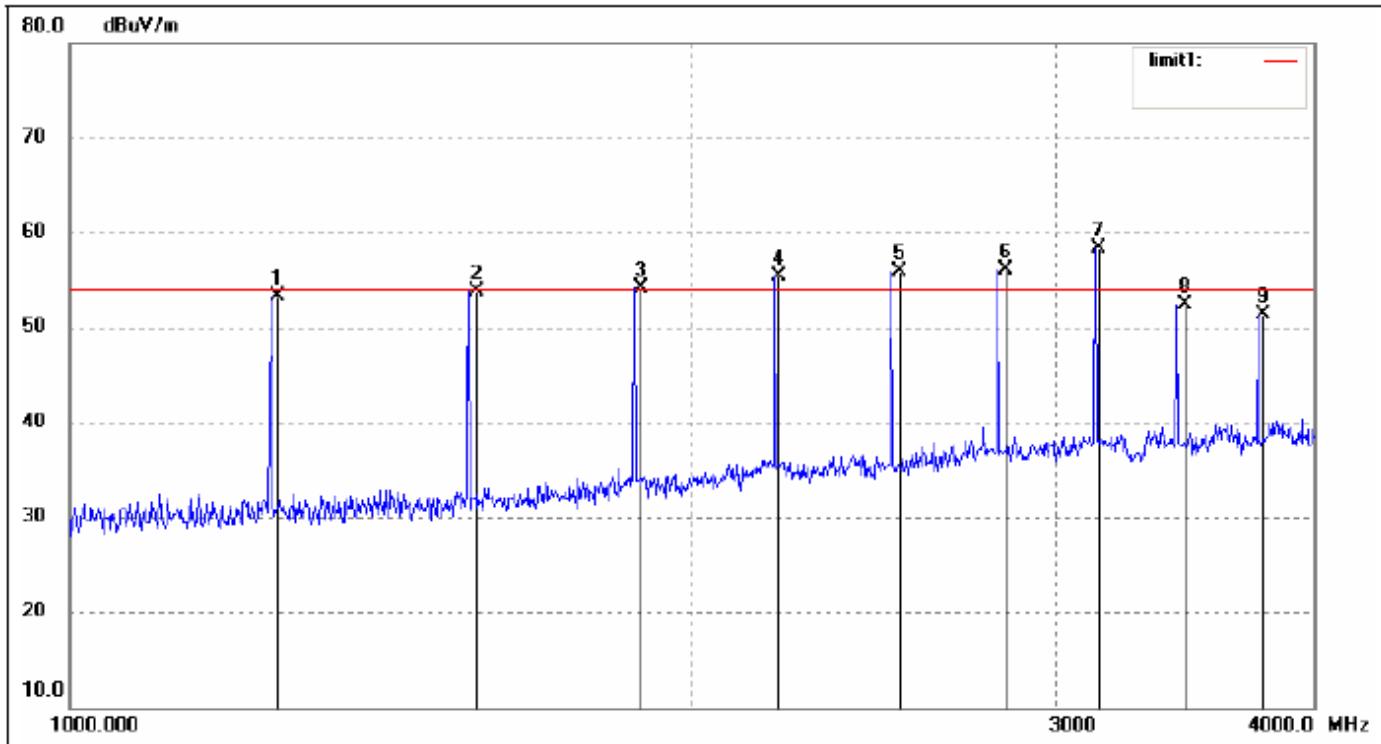
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	314.9156	57.93	19.19	77.12	95.6	-18.48	peak	Fundamental
2	629.9366	32.89	26.06	58.95	75.6	-16.65	peak	Harmonics
3	944.7489	26.70	29.44	56.14	75.6	-19.46	peak	Harmonics



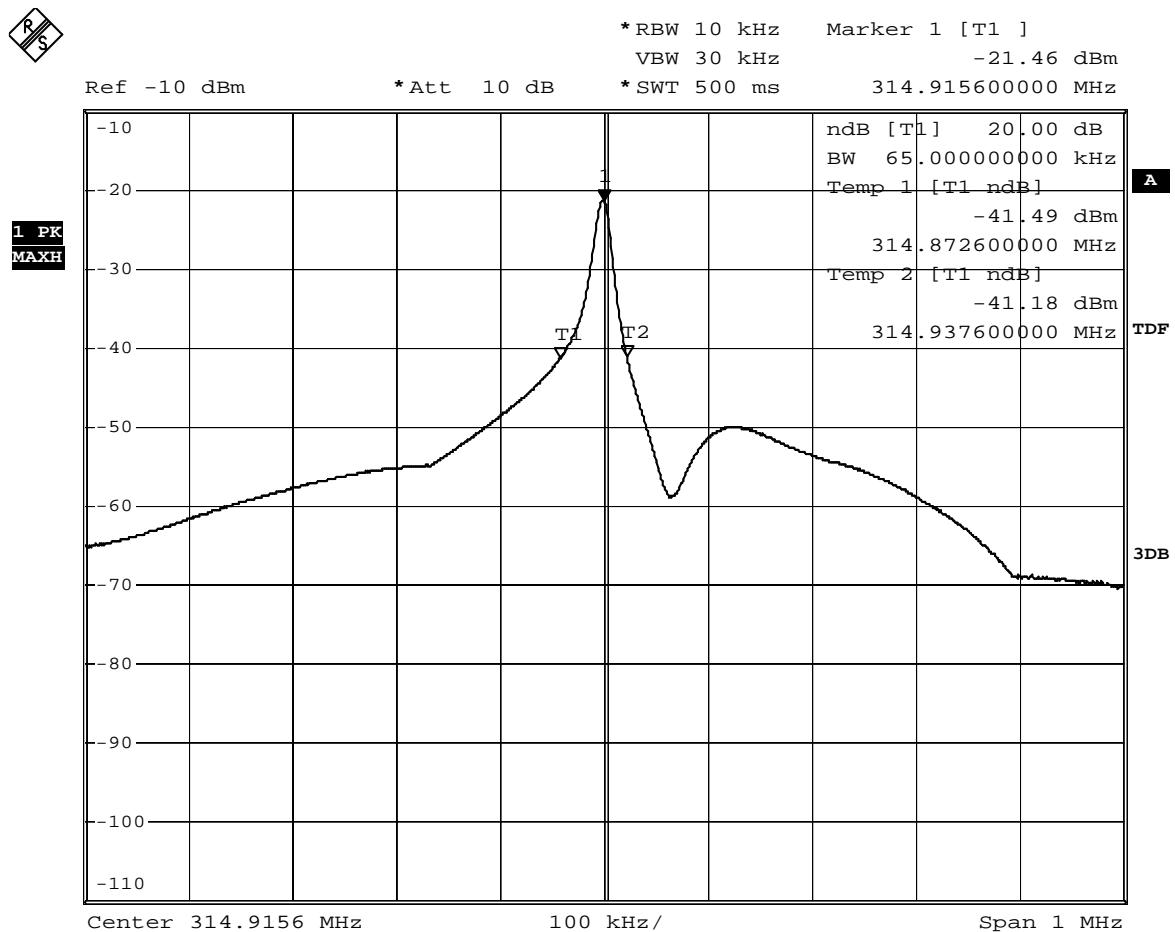
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Tel:+86-0755-26503290
Fax:+86-0755-26503396
<http://www.atc-lab.com>

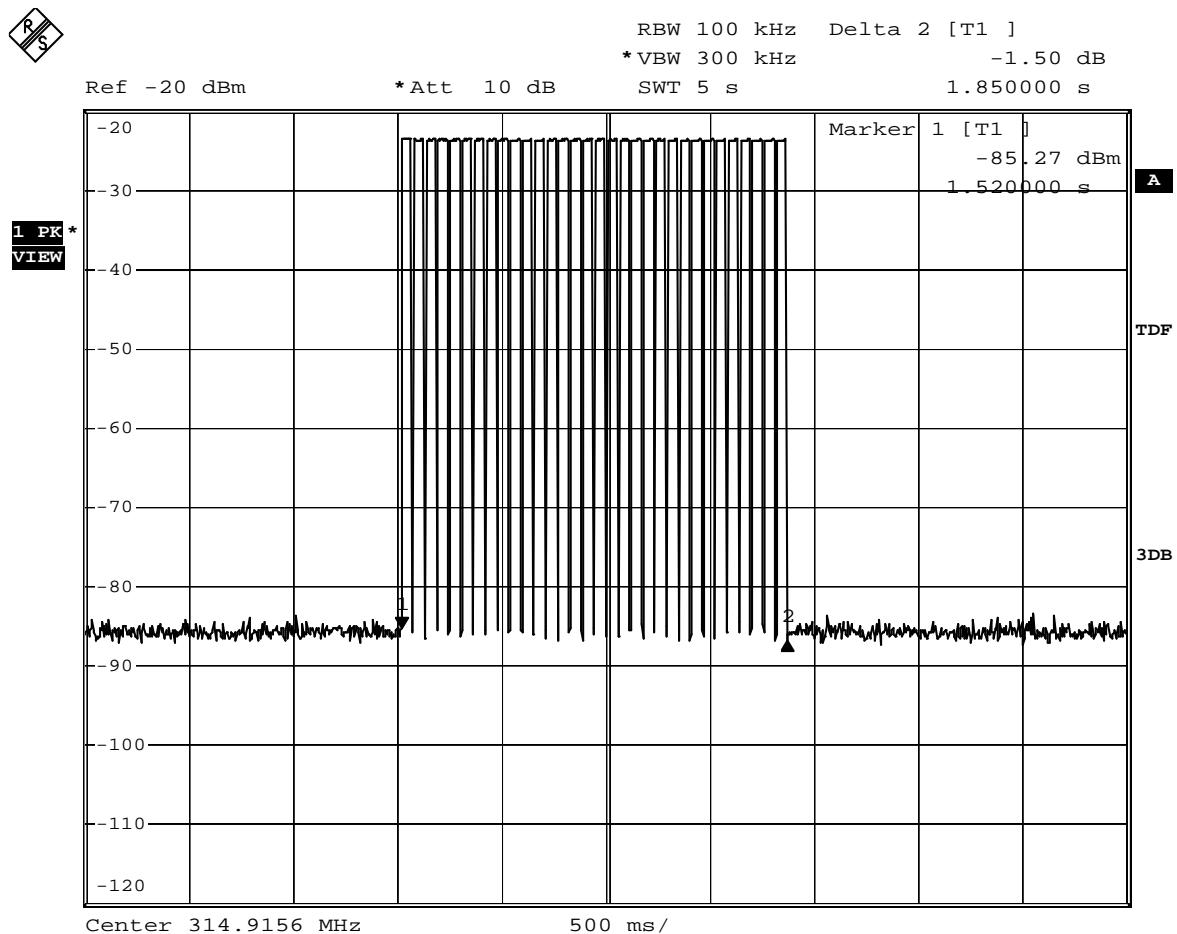
Job No.:	RTTE #216	Polarization:	Vertical
Standard:	FCC Class B 3M Radiated	Power Source:	DC 12V
Test item:	Radiation Test	Date:	08/07/25/
Temp.(°C)/Hum.(%RH):	25(°C)/52%RH	Time:	14/22/30
EUT:	Wireless remote controller	Engineer Signature:	Feng
Mode:	TX	Distance:	3m
Model:	SXJ-203		
Manufacturer:	VISTA		
Note:	Sample No.:082891	Report No.:ATE20081413	



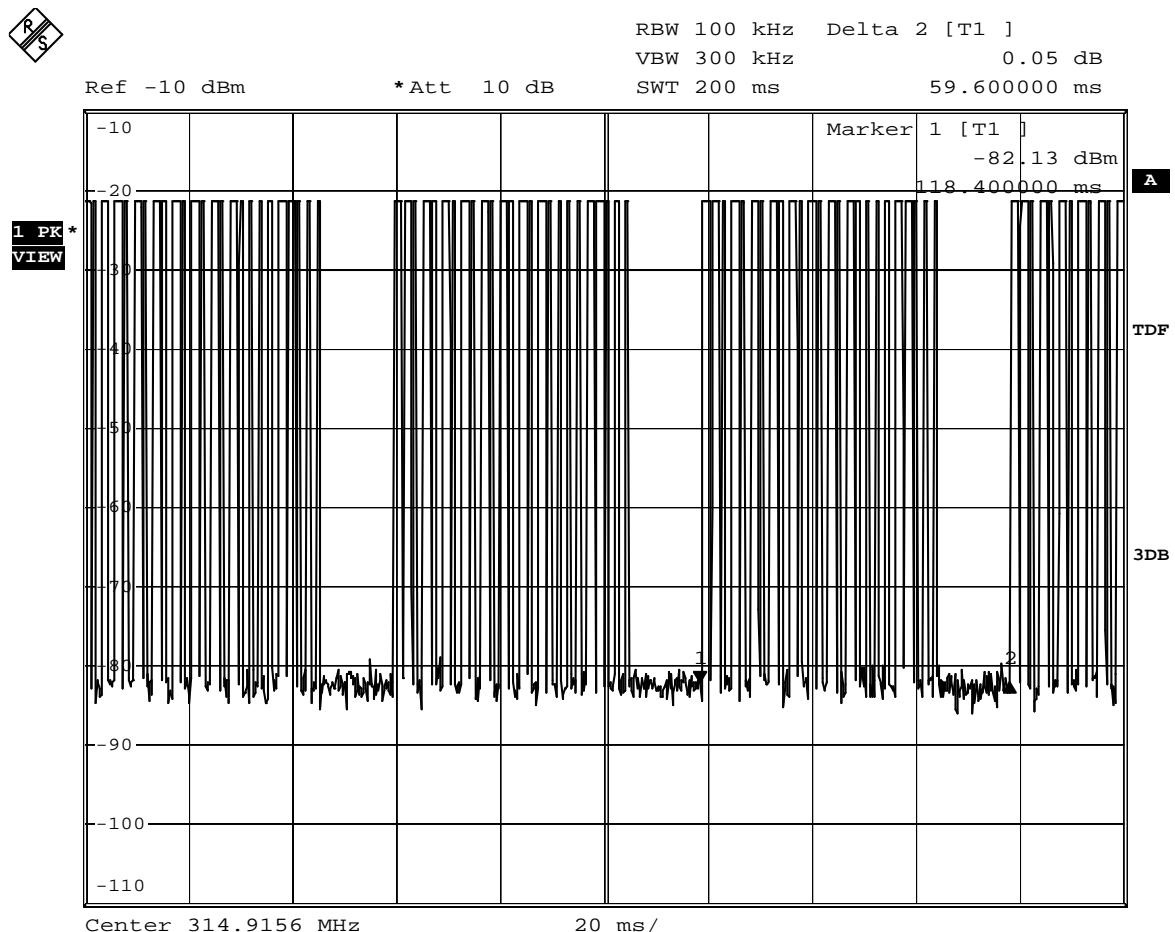
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	1259.663	65.68	-12.28	53.40	75.6	-22.20	peak	Harmonics
2	1574.578	64.96	-11.04	53.92	74.0	-20.08	peak	Restricted
3	1889.494	63.85	-9.68	54.17	75.6	-21.43	peak	Harmonics
4	2204.506	63.58	-8.18	55.40	74.0	-18.60	peak	Restricted
5	2519.497	63.11	-7.23	55.88	75.6	-19.72	peak	Harmonics
6	2834.474	62.14	-5.96	56.18	74.0	-17.82	peak	Restricted
7	3149.468	62.82	-4.35	58.47	75.6	-17.13	peak	Harmonics
8	3464.491	55.78	-3.36	52.42	75.6	-23.18	peak	Harmonics
9	3779.476	53.55	-2.24	51.31	74.0	-22.69	peak	Restricted



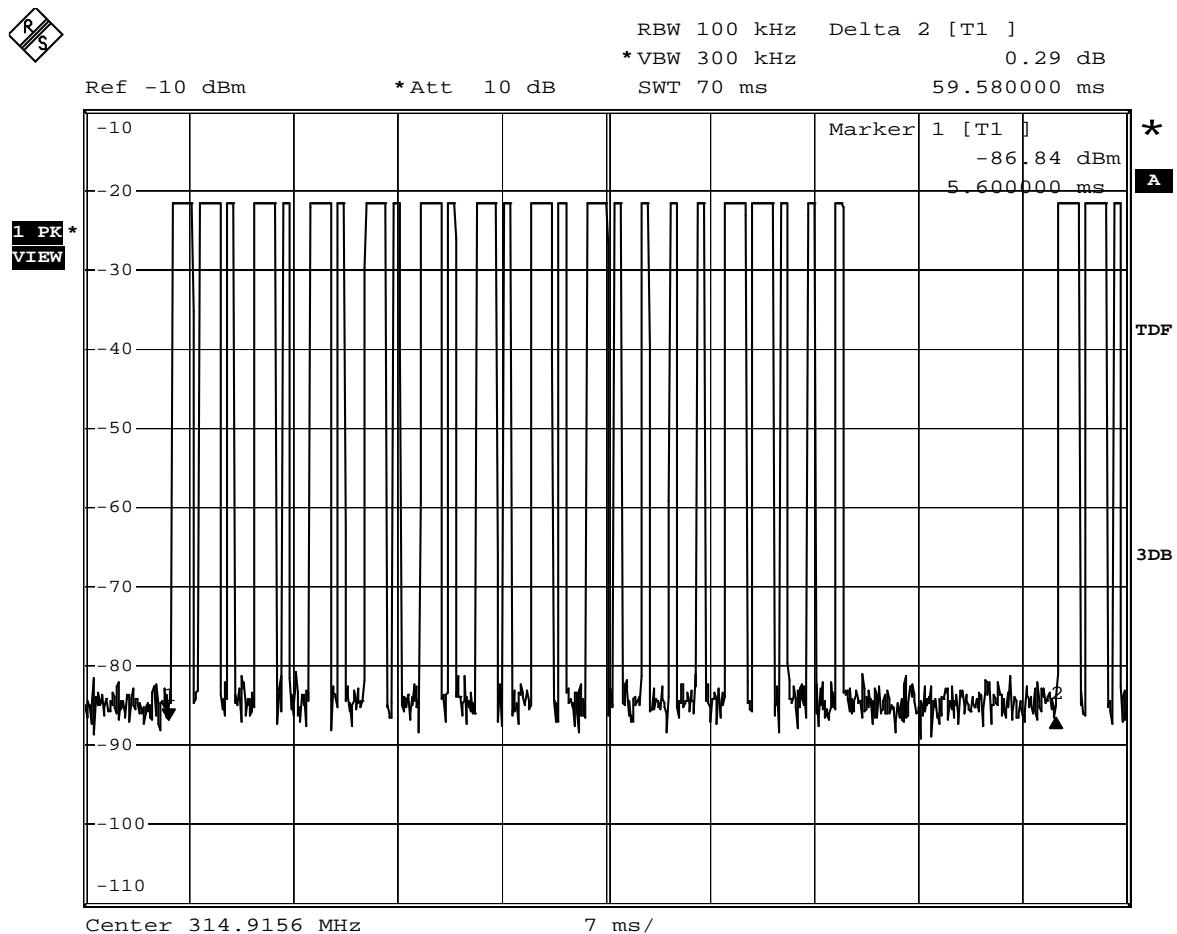
Date: 21.JUL.2008 09:39:52



Date: 23.JUL.2008 14:52:02

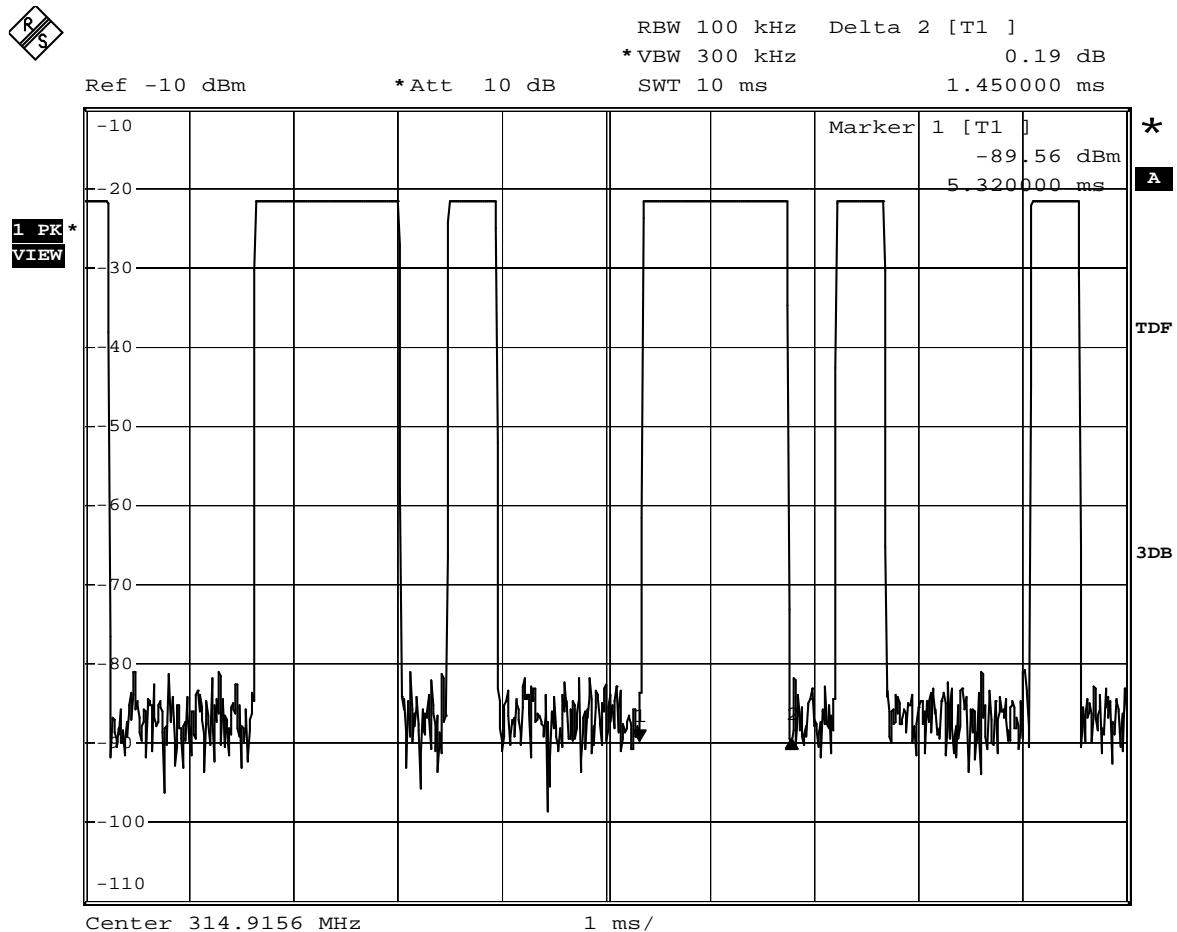


Date: 21.JUL.2008 09:49:17



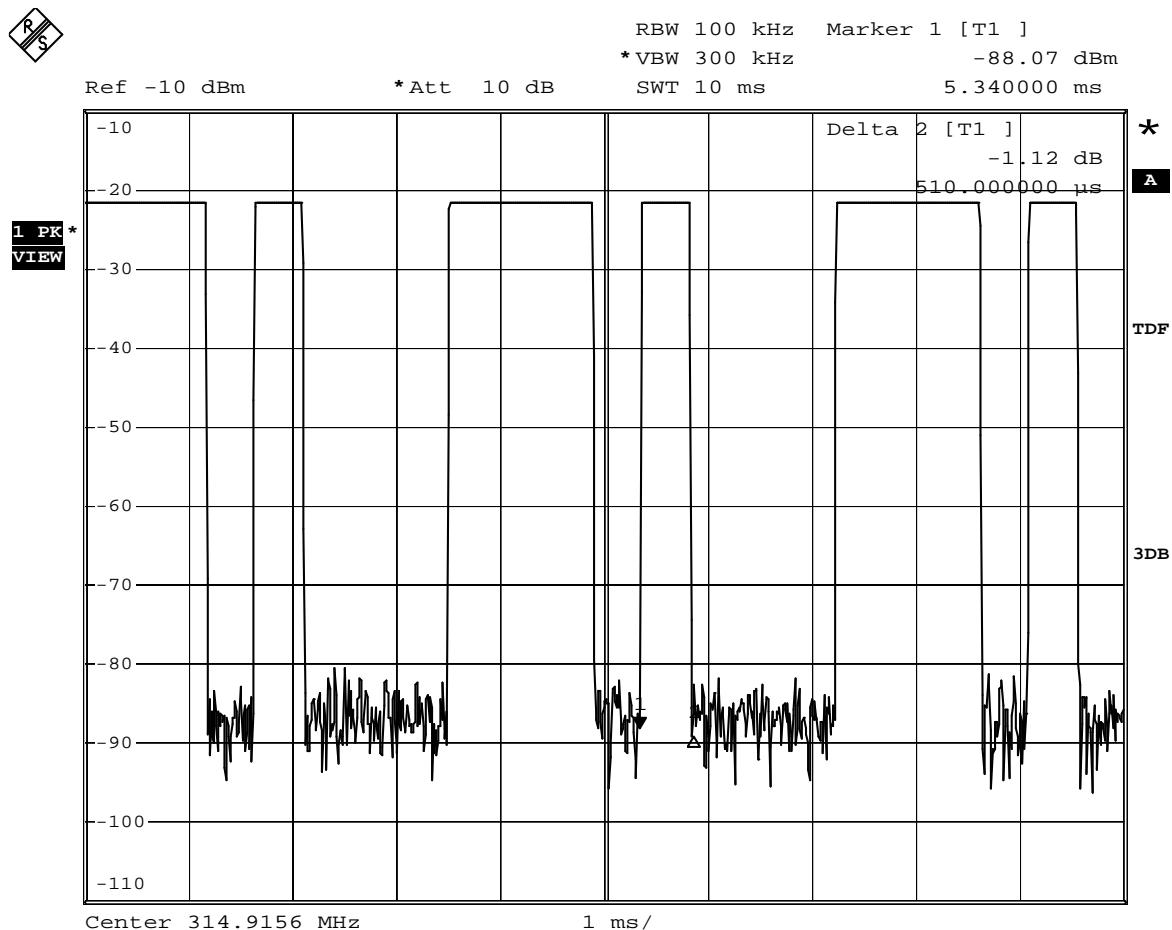
Date: 21.JUL.2008 10:03:58

The graph shows the pattern of coding during the signal transmission.
It sums of 11 long 'on' signals and 14 short 'on' signals.



Date: 21.JUL.2008 10:09:11

The graph shows the duration of long 'on' signal. From marker 1 to marker 2, duration is 1.45ms.



Date: 21.JUL.2008 10:12:18

The graph shows the duration of short 'on' signal. From marker 1 to marker 2, duration is 0.51ms.