Prüfbericht-Nr.: *Test Report No.:*	16061108 001	**Auftrags-Nr.:** *Order No.:*	174022303	Seite 1 von 30 *Page 1 of 30*
Kunden-Referenz-Nr.: *Client Reference No.:*	352690	**Auftragsdatum:** *Order date.:*	23.May.2014	
Auftraggeber: *Client:*	Seikaku Technical Group Limited Offshore Chambers, P.O. Box 217 Apia, Samoa.			
Prüfgegenstand: *Test item:*	WIRELESS TRANSMITTER			
Bezeichnung / Typ-Nr.: *Identification / Type No.:*	DST-24T, T2	**FCC ID:** *FCC ID*	H38DST-24T	
Auftrags-Inhalt: *Order content:*	TUV Rheinland - EMC service			
Prüfgrundlage: *Test specification:*	ANSI C63.4: 2009 FCC Part 15: October 1, 2013 Subpart C section 15.207, 15.209 and 15.247			
Wareneingangsdatum: *Date of receipt:*	31.May.2014			
Prüfmuster-Nr.: *Test sample No.:*	N/A			
Prüfzeitraum: *Testing period:*	Refer to test report			
Ort der Prüfung: *Place of testing:*	Refer to section 2.1			
Prüflaboratorium: *Testing laboratory:*	TÜV Rheinland (Guangdong) Ltd.			
Prüfergebnis*: *Test result*:*	Pass			

geprüft von / *tested by:*

02.Jul.2014 Frank Du/ Project Manager

Datum *Date*	**Name/Stellung** *Name/Position*	**Unterschrift** *Signature*

kontrolliert von / *reviewed by:*

02.Jul.2014 Liangdong Xie/Project Manager

Datum *Date*	**Name/Stellung** *Name/Position*	**Unterschrift** *Signature*

Sonstiges / *Other:*

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 P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut	3 = befriedigend F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	4 = ausreichend N/A = nicht anwendbar	5 = mangelhalt N/T = nicht getestet
Legend:	1 = very good P(ass) = passed a.m. test specifications(s)	2 = good	3 = satisfactory F(ail) = failed a.m. test specifications(s)	4 = sufficient N/A = not applicable	5 = poor N/T = not tested

Test Summary

FCC Rules		Test items	Result
Paragraph	**Released Date**		
Part 15 Per Section 15.207(a)	**October 1, 2013**	**Conducted Emission**	**Pass**
Part 15 Per Section 15.209(a)	**October 1, 2013**	**Radiated Spurious Emission**	**Pass**
Part 15 Per Section 15.203	**October 1, 2013**	**Antenna requirement**	**Pass**
Part 15 Per Section 15.247(b)(1)	**October 1, 2013**	**Maximum Peak Output power**	**Pass**
Part 15 Per Section 15.247(a)(1)	**October 1, 2013**	**6dB Bandwidth**	**Pass**
Part 15 Per Section 15.247(a)(1)	**October 1, 2013**	**Hopping Channel Carrier Frequency Separation**	**N/A**
Part 15 Per Section 15.247(a)(1)(iii)	**October 1, 2013**	**Number of Hopping Frequency Used**	**N/A**
Part 15 Per Section 15.247(a)(1)(iii)	**October 1, 2013**	**Time of Occupancy (Dwell Time)**	**N/A**
Part 15 Per Section 15.247(d)	**October 1, 2013**	**Bandedge Emission**	**Pass**
Part 15 Per Section 15.247(e)	**October 1, 2013**	**Power spectral density**	**Pass**
Part 15 Per Section 15.247(d)	**October 1, 2013**	**Out-Of-Band Emission measurement**	**Pass**
Safety Human exposure	**FCC KDB Publication 447498**	**Electromagnetic Fields**	**Pass**

Contents

1 General Remarks

1.1 Complementary Materials

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

Appendix 1: Test result

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Guangdong) Ltd. EMC Laboratory

No.102, 1F of Southwest Warehouse Building,No.767 TianYuan Road,
Tianhe District, Guangzhou,P.R.China, 510650

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Kind of Equipment	Type	Manufacturer	S/N	Calibrated until	Calibrated Interval
EMI Test Receiver	ESCI-3	Rohde & Schwarz	100216	16.Mar.2015	1 year
Spectrum Analyzer	FSP30	Rohde & Schwarz	100286	16.Mar.2015	1 year
Trilog-Broadband Antenna	VULB9168 (30MHz-1GHz)	SCHWARZBECK MESSELEKTRONIK	209	16.Mar.2015	2 years
Double-Ridged Waveguide Horn Antenna	HF906 (1-18GHz)	Rohde & Schwarz	100385	16.Mar.2015	2 years
Pre-amplifier	AFS42-00101800-25-S-42	MITEQ	1101599	16.Mar.2015	2 years
Band Reject Filter	BRM50702	Micro-Tronics	023	16.Mar.2015	2 years
Standard Gain Horn Antenna	3160-09 (18-26.5GHz)	EMCO	21642	16.Mar.2015	5 years
Pre-amplifier	AFS33-18002650-30-8P-44	MITEQ	1108282	16.Mar.2015	2 years
3m Anechoic Chamber	N/A	Albatross Project GmbH	N/A	16.Mar.2015	1 year
Loop Antenna	HFH2-Z2 (<30MHz)	Rohde & Schwarz	100111	16.Mar.2015	2 years
EMI Test Receiver	ESCS30	Rohde & Schwarz	100316	16.Mar.2015	1 year
Two-Line V-Network	ESH3-Z5	Rohde & Schwarz	100308	16.Mar.2015	1 year
Pulse Limiter	ESH3-Z2	Rohde & Schwarz	100701	16.Mar.2015	1 year

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.

2.5 Measurement Uncertainty

Uncertainty for conducted emissions measurements is 2.68dB.
Uncertainty for radiated emissions measurements is 5.16dB (30M-1GHz) and 4.88dB (> 1GHz)

The reported expanded uncertainty is based on a standard uncertainty multiply by a coverage factor k=2, providing a level of confidence of approximately 95%.

2.6 Location of original data

The original copies of test data taken during actual testing were attached at Appendix 1 of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Guangdong) file for certification follow-up purposes.

2.7 Status of facility used for testing

TÜV Rheinland (Guangdong) Ltd. EMC Laboratory; No.102, 1F of Southwest Warehouse Building,No.767 TianYuan Road,Tianhe District, Guangzhou,P.R.China is listed on the US Federal Communications Commission list of facilities approved to perform measurements, the register no. 833845.

3 General Product Information

The submitted samples DST-24T, T2 are wireless transmitter. They use digital modulation technics and operates in 2400 frequency band.
DST-24T and T2 are the same, only make, model name and appearance are different.
So, tests were performed on DST-24T.

For details refer to the User Manual and Circuit Diagram.

3.1 Product Function and Intended Use

Refer to the Technical Documentation and user manual.

3.2 Ratings and System Details

Type Designation	:	DST-24T, T2
Frequency range	:	2404.0 MHz –2476.0MHz
Number of employed channels	:	26 channels (Refer to table a)
Channel Spacing	:	≥1MHz
Modulation Type	:	GFSK
Type of antenna	:	Integral antenna
Power supply	:	AC9.0V, 50/60Hz
Protection Class	:	II
Antenna Gain	:	5dB

Table a: RF channel and frequency

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	2404.00	6	2422.00	12	2440.00	18	2455.00
1	2407.00	7	2425.00	13	2443.00	19	2458.00
2	2410.00	8	2428.00	14	2446.00	20	2461.00
3	2413.00	9	2431.00	15	2448.00	21	2464.00
4	2416.00	10	2434.00	16	2449.00	22	2467.00
5	2419.00	11	2437.00	17	2452.00	23	2470.00
						24	2473.00
						25	2476.00

Refer to the Technical Documentation for further information.

3.3 Independent Operation Modes

A. Transmitting.

For further information refer to User Manual.

3.4 Submitted Documents

Block Diagram
Schematics
Operation Description
Components List
FCC label and location
User Manual
Internal Photos
External Photos
Application form

4 Test Set-up and Operation Mode

4.1 Principle of Configuration Selection

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

Refer to test set-up in chapter 5.

4.3 Special Accessories and Auxiliary Equipment

None.

4.4 Countermeasures to achieve EMC Compliance

The test sample, which has been tested, contained the noise suppression parts as described in the technical document. No additional measures were employed to achieve compliance.

4.5 Test set-up

Diagram 1 of Configuration for Testing Radiated Emission 30MHz -1 GHz

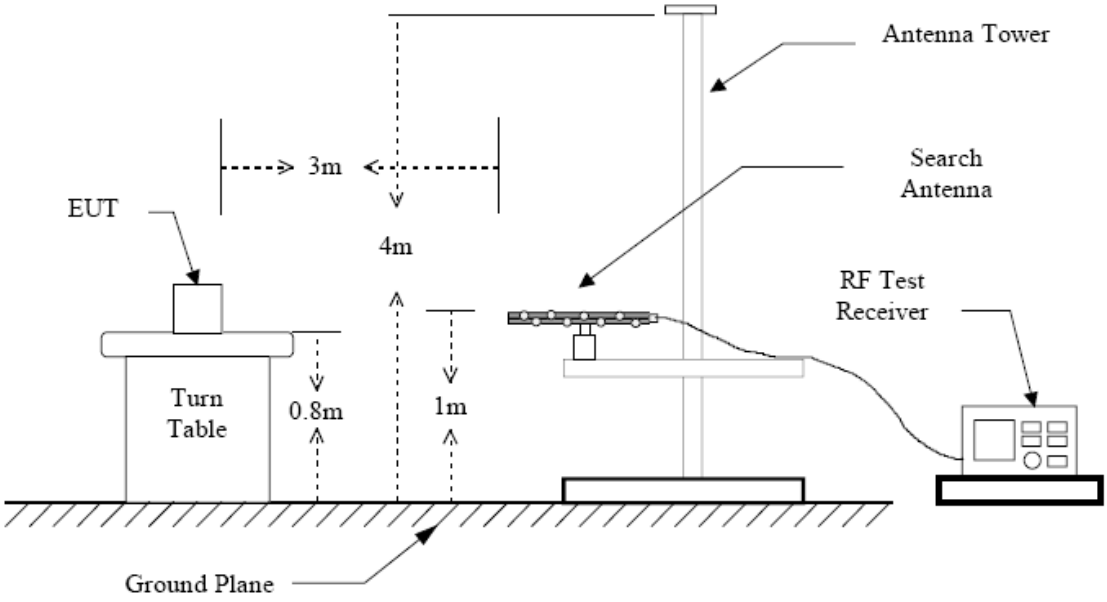


Diagram 2 of Configuration for Testing Radiated Emission above 1 GHz

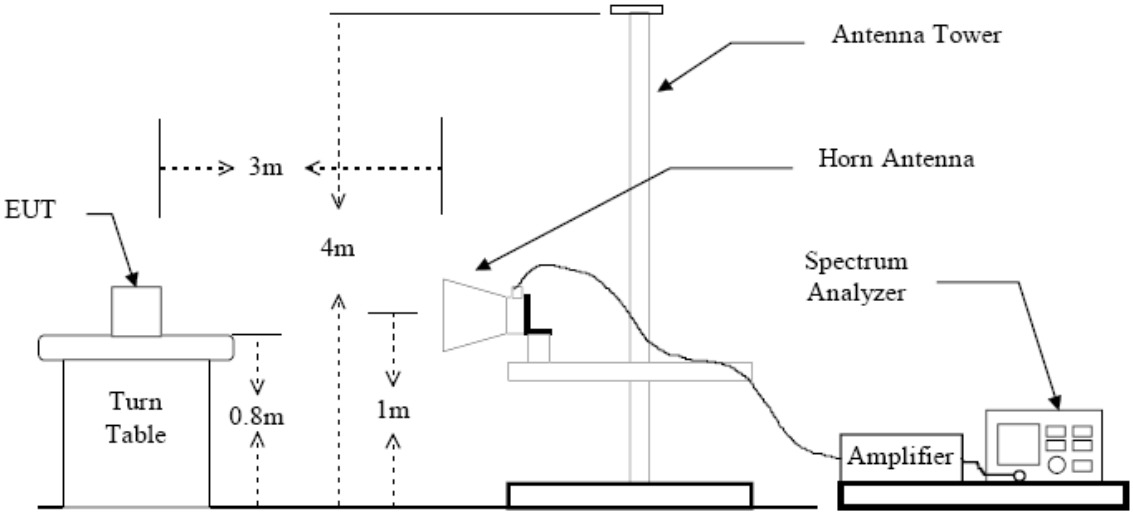


Diagram 3 of Configuration for Testing Conducted Emission

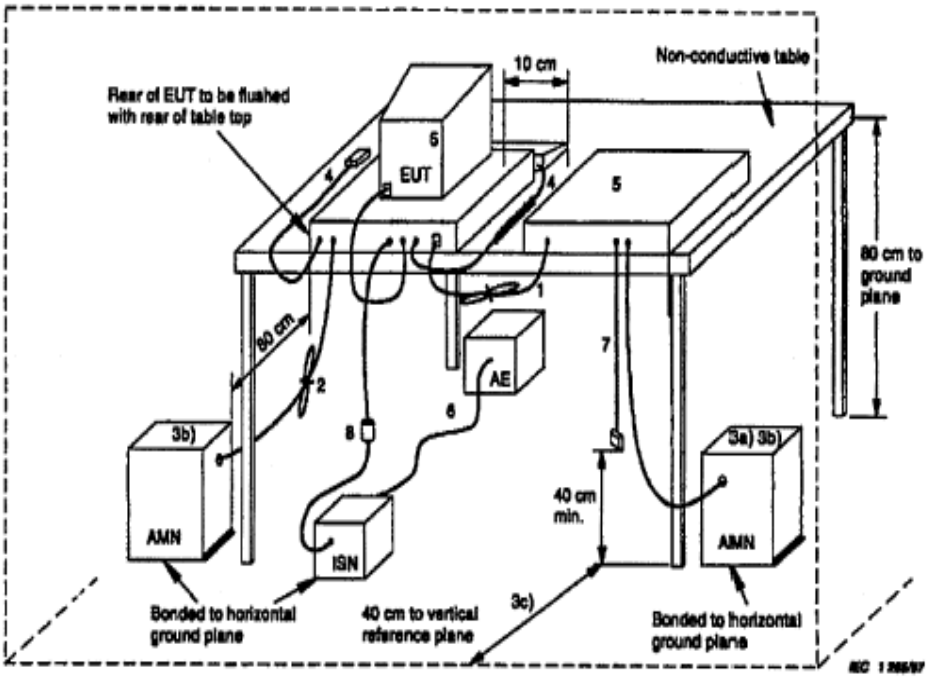


Diagram 4 of Configuration for Testing Radiated Emission below 30MHz

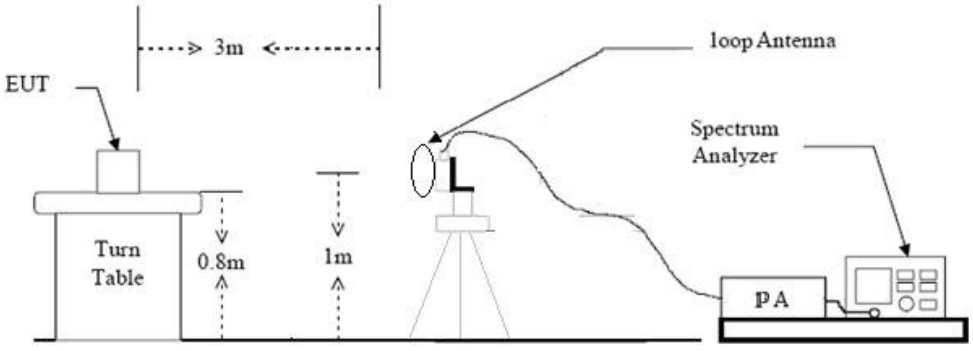
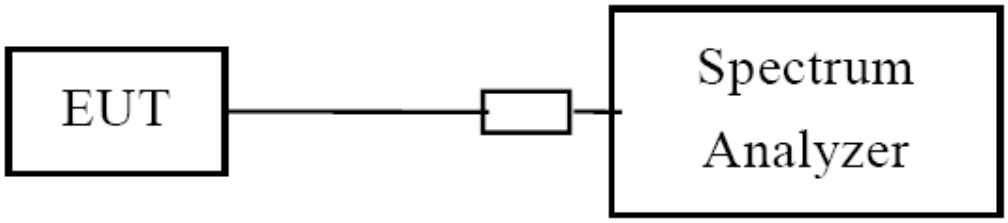


Diagram 5 of Configuration for Testing other test items



5 Test Results E M I S S I O N

5.1 Conducted Emission

RESULT: **N/A**

Date of testing	:	10.06.2014
Test specification	:	FCC Part 15 Per Section 15.207(a)
Limits	:	FCC Part 15 Per Section 15.207(a)
Test procedure	:	Procedure specified in ANSI C63.4 were followed
Deviations from Standard Test Procedures	:	None
Kind of test site	:	Shielded room
Operation mode	:	Transmitting at fix channel with max power
Power supply	:	AC120V,60Hz
Temperature	:	23°C
Humidity	:	50%

Test procedure:
For tabletop device, the EUT and its peripherals were placed on a wooden table, 0.8cm above the horizontal reference plane and 40cm away from vertical reference plane in a shielded room. For floor-standing device, the EUT shall be placed either directly on the reference ground plane or on insulating material as described in ANSI C63.4 Clause 6.3.2.1.
The EUT was connected to input power source through a line impedance stabilization network (LISN).The excess length of the power cord between the EUT and the LISN shall be folded back and forth at the center of the lead to form a bundle not exceeding 40cm in length.
The EUT was tested in a typical model of operation in accordance with ANSI C63.4:2009, Pre-test was performed in peak and average detection mode. final measurement was performed using quasi-peak and average detection on the live and neutral lines with the worst case.
The test software Rohde & Schwarz EMC32 was used during the test.
If the result of the measurement with the Quasi Peak detector is below the Average limit, the measurement with Average Detector may be omitted.

Refer to appendix 1 for test result.

5.2 Radiated Spurious Emission

RESULT: **Pass**

Date of testing	:	09.06.2014
Test specification	:	FCC Part 15 Per Section 15.209(a)
Limits	:	FCC Part 15 Per Section 15.209(a)
Test procedure	:	Procedure specified in ANSI C63.4
Deviations from Standard Test procedures	:	None
Kind of test site	:	3m Semi-anechoic chamber
Operation mode	:	Transmitting at fix channel with max power (High, Low, Mid)
Power supply	:	AC120V,60Hz
Temperature	:	23°C
Humidity	:	50%

Test procedure:

For tabletop device, the and its peripherals were placed on a wooden table,80cm above ground plane in semi-anechoic chamber. For floor-standing equipment, the EUT and all cables shall be insulated, if required, from the ground plane by up to 12mm of insulating material in semi-anechoic chamber.
The EUT was set 3 meters away from the receiving antenna, which was mounted on a variable-height antenna tower. Test shall be made with the antenna positioned in both the horizontal and vertical planes of polarization. The antenna height shall be varied from 1m to 4m. The table was rotated 360 degrees to detect the suspected emission frequency points. The position of the worst radiation case with both horizontal and vertical receiving antenna polarization was recorded together with the suspected emission frequency points above-mentioned.
The EUT was tested in a typical model of operation in accordance with ANSI C63.4:2009, Pre-test was performed in peak detection mode. Finial measurement was performed using quasi-peak detection with the worst case.
The test software Rohde & Schwarz EMC32 was used during the test.

Note:
While testing, the EUT is connected with a serial port bridge board for test mode setup. The length of the communication cable between the EUT and the bridge board, which including Tx, Rx, GND serial pins, is minimized to reduce the unwanted influence to test result. The bridge board can be connected to a host computer with standard DB9 com port cable for running of the test setup software. After setup successfully, the EUT can keep the test mode with the host computer and the cable removed.

Refer to appendix 1 for test result.

5.3 Antenna requirement

RESULT: **Pass**

Date of testing	:	---
Test specification	:	FCC Part 15 Per Section 15.203 FCC Part 15 Per Section 15.247(b)

For intentional device, according to 15.203, and intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to 15.247(b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by amount in dB than the directional gain of the antenna exceeds of 6dBi.

As the antenna is permanently fixed, there is no consideration of replacement.

And the max gain of the antenna is 5dBi.

5.4 Maximum Peak Output Power

RESULT: **Pass**

Date of testing	:	11.08.2014
Test specification	:	FCC Part 15 Per Section 15.247(b)(3)
Limits	:	FCC Part 15 Per Section 15.247(b)(3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.
Deviations from Standard Test procedures	:	None
Test procedure	:	Procedure specified in ANSI C63.4
Kind of test site	:	Shielded room
Operation mode	:	Transmitting on the measured channel.
Power supply	:	AC120V,60Hz
Temperature	:	23°C
Humidity	:	50%

Table 2: Peak Conducted Power

Channel	Frequency (MHz)	Power Reading (dBm)	Output Power (mW)	Limit (mW)*
High	2476	9.55	9.02	1000
Middle	2448	2.99	1.99	1000
Low	2404	4.24	2.65	1000

Above is the worst result after test low/mid/high channel.

5.5 6dB Bandwidth

RESULT: **Pass**

Date of testing	:	11.08.2014
Test specification	:	FCC Part 15 Per Section 15.247(a)(2)
Limits	:	FCC Part 15 Per Section 15.247(a)(2) Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Deviations from Standard Test procedures	:	None
Test procedure	:	Procedure specified in ANSI C63.4
Operation mode	:	Transmitting on the measured channel.
Kind of test site	:	Shielded room
Power supply	:	AC120V,60Hz
Temperature	:	22°C
Humidity	:	52%

Test procedure:

1. Connect the antenna port of the EUT to the spectrum analyzer by a low lost cable.
2. Set the EUT to proper test mode with relative test software and hardware.
3. Spectrum analyzer setting: Centered Frequency= measured channel, RBW=100kHz,VBW=300kHz.
4. Mark the peak power frequency point and the -6dB upper and lower frequency points.
5. Read the frequency delta value between the -6dB upper and lower frequency points.
6. Repeat step 2 to 5 until all the channels required are finished.

Table 3: 6dB Bandwidth

Channel	Frequency (MHz)	Test Result (kHz)
Low	2404	1680
Middle	2448	2000
High	2476	1980

Above is the worst result after test low/middle/high channel.

Please refer to Appendix 1 for measurement data.

5.6 Hopping Channel Carrier Frequency Separation

RESULT: **N/A**

Date of testing	:	---
Test specification	:	FCC Part 15 Per Section 15.247(a)(1)
Limits	:	FCC Part 15 Per Section 15.247(a)(1)
		Frequency hopping systems operating in the band 2400-2483.5 MHz may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 0.125W.
Deviations from Standard Test procedures	:	None
Test procedure	:	Procedure specified in ANSI C63.4
Kind of test site	:	Shielded room
Operation mode	:	---
Power supply	:	---
Temperature	:	---
Humidity	:	---

Test procedure:

1. Connect the antenna port of the EUT to the spectrum analyzer by a low lost cable.
2. Set the EUT to proper test mode with relative test software and hardware.
3. Spectrum analyzer setting: Centered Frequency = measured channel, RBW = 30 kHz, VBW = 100 kHz, Frequency Span = wide enough to cover the adjacent channel.
4. Mark the peak power frequency point of the measured channel and its adjacent channel(s)
5. Read the frequency delta value between the measured channel and its adjacent channel(s)
6. Repeat step 3 to 5 until all the channels measured are finished.

EUT does not use Frequency hopping technics, therefore this test is not applicable.

5.7 Number of Hopping Frequency Used

RESULT: **N/A**

Date of testing	:	---
Test specification	:	FCC Part 15 Per Section 15.247(a)(1)(iii)
Limits	:	FCC Part 15 Per Section 15.247(a)(1)(iii) Frequency hopping system in the 2400-2483.5 MHz band shall use at least 15 non-overlapping channels
Deviations from Standard Test procedures	:	None
Test procedure	:	Procedure specified in ANSI C63.4
Kind of test site	:	Shielded room
Operation mode	:	---
Power supply	:	---
Temperature	:	---
Humidity	:	---

Test procedure:

1. Connect the antenna port of the EUT to the spectrum analyzer by a low lost cable.
2. Set the EUT to proper test mode with relative test software and hardware.
3. Spectrum analyzer setting: RBW = 100 kHz, VBW≥RBW, Frequency Span = wide enough to cover the channels to be plotted.
4. Set the spectrum analyzer to Max-hold mode and plot the result(s) with record of all hopping channel.

EUT does not use Frequency hopping technics, therefore this test is not applicable.

5.8 Time of Occupancy (Dwell Time)

RESULT: **N/A**

Date of testing	:	---
Test specification	:	FCC Part 15 Per Section 15.247(a)(1)(iii)
Limits	:	FCC Part 15 Per Section 15.247(a)(1)(iii) For frequency hopping system operating in the 2400-2483.5MHz band, the average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.
Deviations from Standard Test procedures	:	None
Test Procedure	:	Procedure specified in ANSI C63.4
Kind of test site	:	Shielded room
Operation mode	:	---
Power supply	:	---
Temperature	:	---
Humidity	:	---

Test procedure:

1. Connect the antenna port of the EUT to the spectrum analyzer by a low lost cable.
2. Set the EUT to proper test mode with relative test software and hardware.
3. Spectrum analyzer setting: Centered Frequency = measured channel, RBW = 1MHz, VBW≥RBW, Frequency Span = 0 Hz.
4. Set sweep time properly to capture the entire dwell time per hopping channel.
5. Set detector type to Peak and trace mode to Max Hold and make the measurement.
6. Repeat step 3-5 until all channels measured were complete.

EUT does not use Frequency hopping technics, therefore this test is not applicable.

5.9 Bandedge Emission

RESULT: **Pass**

Date of testing	:	11.08.2014
Test specification	:	FCC Part 15 Per Section 15.247(d)
Limits	:	FCC Part 15 Per Section 15.247(d)
		In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
		In addition: FCC Part 15 - radiated emission which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in section 15.209(a).
Deviations from Standard Test procedures	:	None
Test Procedure	:	Procedure specified in ANSI C63.4
Kind of test site	:	Shielded room
Operation mode	:	Transmitting at the highest and lowest channel (band edge)
Power supply	:	AC120V,60Hz
Temperature	:	22°C
Humidity	:	55%

Test procedure:

1. Connect the antenna port of the EUT to the spectrum analyzer by a low lost cable.
2. Set the EUT to proper test mode with relative test software and hardware.
3. Spectrum analyzer setting: RBW = 100 kHz, VBW≥RBW.
4. Set proper frequency span respectively for out-of-band emission measurement of the band edge and the whole range (up to 10 times of the carrier frequency.)
5. Set the trace mode to Max Hold and mark the peak reading of any spurious emission recorded.

Table 4: Band Edges Emission in the Restricted Bands by Marker Delta Method

Frequency [MHz]	**dBc** [dB]	**PK** [dBµV/m]	**AV** [dBµV/m]	**Polarity** (H/V)	**PK limit** [dBµV/m]	**AV limit** [dBµV/m]
2483.5	44.55	45.57	---	V	74	54
2390.8	51.38	40.62	---	H	74	54

NOTE:

1. The Peak carrier field strength of the highest/lowest channel is 90.12dBuV/m, 92.00dBuV/m. The above field strength levels were measured in hor/ver polarity which is the worst case.

2. The dBc value between the carrier maximum power and band edge emission power of the frequency listed in the table is calculated from the test record showed in Appendix 1.

3. Peak value of the high/low band edge emission listed in the table is calculated by the below formula: PK value of band edge emission = Peak carrier field strength – dBc value in item2

*Note: Please refer to Appendix 1 for measurement data. Disturbances other than those mentioned above are small or not detectable. Please refer to the Appendix 1 for the noise floor of the band edge emission.

5.10 Power spectral density

RESULT: **Pass**

Date of testing	:	11.08.2014
Test specification	:	FCC Part 15 Per Section 15.247(e)
Limits	:	FCC Part 15 Per Section 15.247(e) For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.
Deviations from Standard Test procedures	:	None
Test procedure	:	Procedure specified in ANSI C63.4
Kind of test site	:	Shielded room
Operation mode	:	Transmitting on the measured channel.
Power supply	:	AC120V,60Hz
Temperature	:	23°C
Humidity	:	50%

Table 5: power spectral density

Channel	Frequency (MHz)	Power Reading (dBm)	Limit dBm/3kHz
Low	2475.90	-8.62	8.0
Middle	2447.90	-14.87	8.0
High	2403.90	-13.72	8.0

Above is the worst result after test low/mid/high channel.

Please refer to Appendix 1 for measurement data.

5.11 Out-of-Band Emission

RESULT: **Pass**

Date of testing	:	09.06.2014
Test specification	:	FCC Part 15 Per Section 15.247(d)
Limits	:	FCC Part 15 Per Section 15.247(d)
		In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
		In addition: FCC Part 15 - radiated emission which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in section 15.209(a).
Deviations from Standard Test procedures	:	None
Test Procedure	:	Procedure specified in ANSI C63.4
Kind of test site	:	Shielded room
Operation mode	:	Transmitting at the highest and lowest channel
Power supply	:	AC120V,60Hz
Temperature	:	22°C
Humidity	:	55%

Test procedure:

1. Connect the antenna port of the EUT to the spectrum analyzer by a low lost cable.
2. Set the EUT to proper test mode with relative test software and hardware.
3. Spectrum analyzer setting: RBW = 100 kHz, VBW≥RBW.
4. Set proper frequency span respectively for out-of-band emission measurement of the band edge and the whole range (up to 10 times of the carrier frequency.)
5. Set the trace mode to Max Hold and mark the peak reading of any spurious emission recorded.

Table 6: Out-Of-Band Emission measurement (conducted)

Emission (Carrier operating at Channel low, mid and high)	**Attenuation**	**Limit (dB)**
30MHz to 25GHz	All emission in this 100kHz bandwidth are attenuated more than 20dB from the carrier	△≥20

Note: Refer to Appendix 1 for measurement data.

6. Safety Human exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Maximum Permissible Exposure

RESULT:
Passed

Test standard : RSS-102 Issue 4
FCC KDB Publication 447498
FCC 1.1310

MPE Calculation

According to the formula $\boldsymbol{Pd} = \dfrac{\boldsymbol{Pout} * \boldsymbol{G}}{4\boldsymbol{R}^2\pi}$

Where

Pd = power density in mW/cm^2
Pout = output power to antenna in mW
G = Antenna gain in numeric
$\pi = 3.14159$
R = Distance between observation point and the center of radiator in cm

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. Warning statement to the user for keeping the safety distance from the antenna should be included in the user manual.

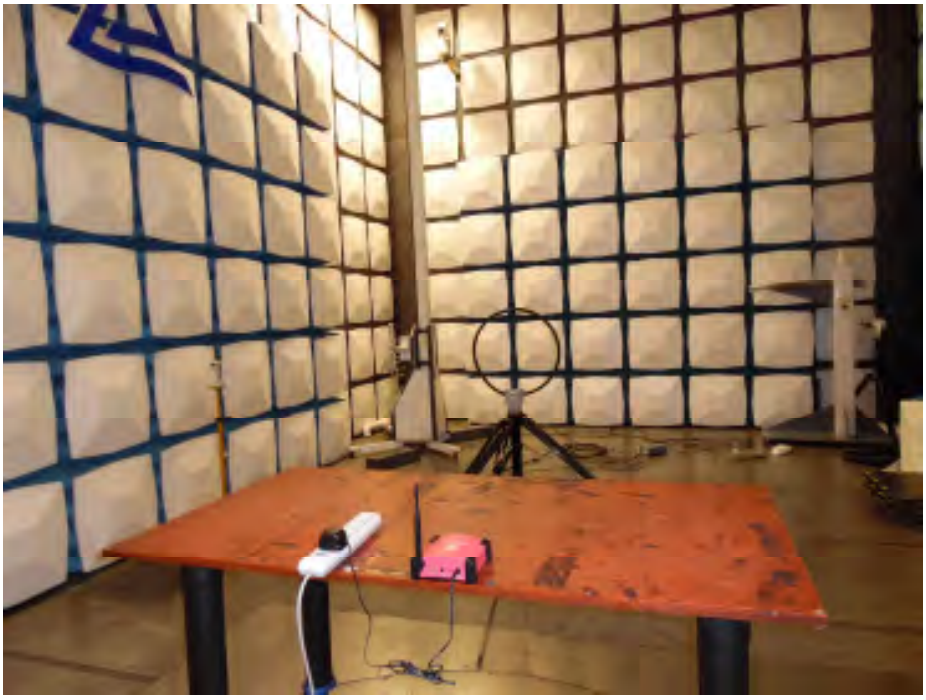
The highest measured power is 9.55 dBm at 2476 MHz for wireless operation, hence the Maximum Permissible Exposure (MPE) value:

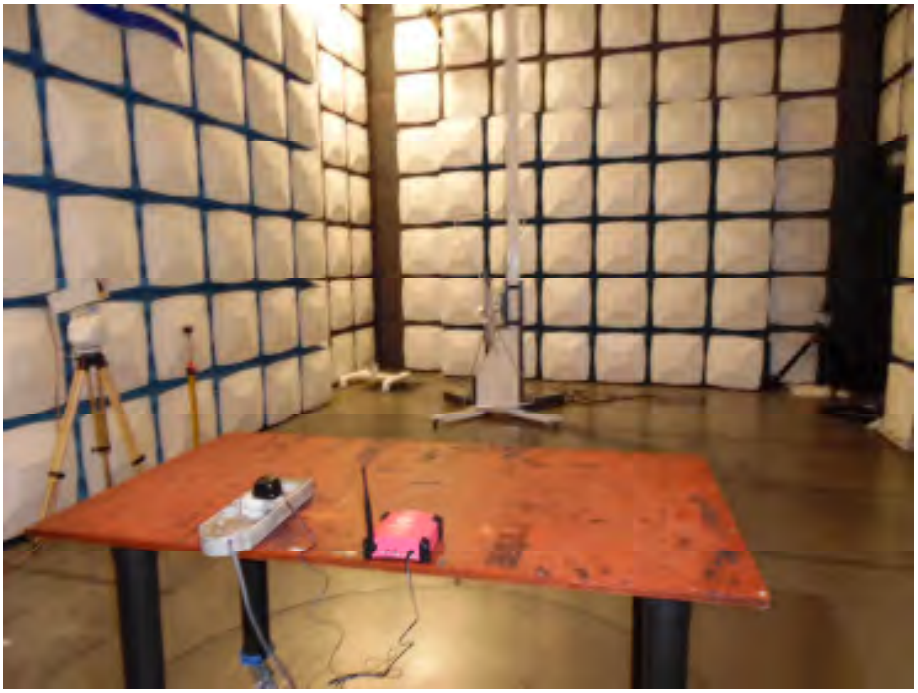
$$\boldsymbol{Pd} = \frac{\boldsymbol{Pout} * \boldsymbol{G}}{4\boldsymbol{R}^2\pi} = \frac{9.02 * 3.16}{4 * 20^2 * 3.14159} = 0.005671\boldsymbol{mW/cm}^2 < 1\text{mW/cm}^2$$

The summed maximum permissible exposure (MPE) level is $0.005671mW/cm^2$. It is less than MPE limit $1mW/cm^2$, therefore the device is exclusion from SAR test, and compliance with MPE limit.

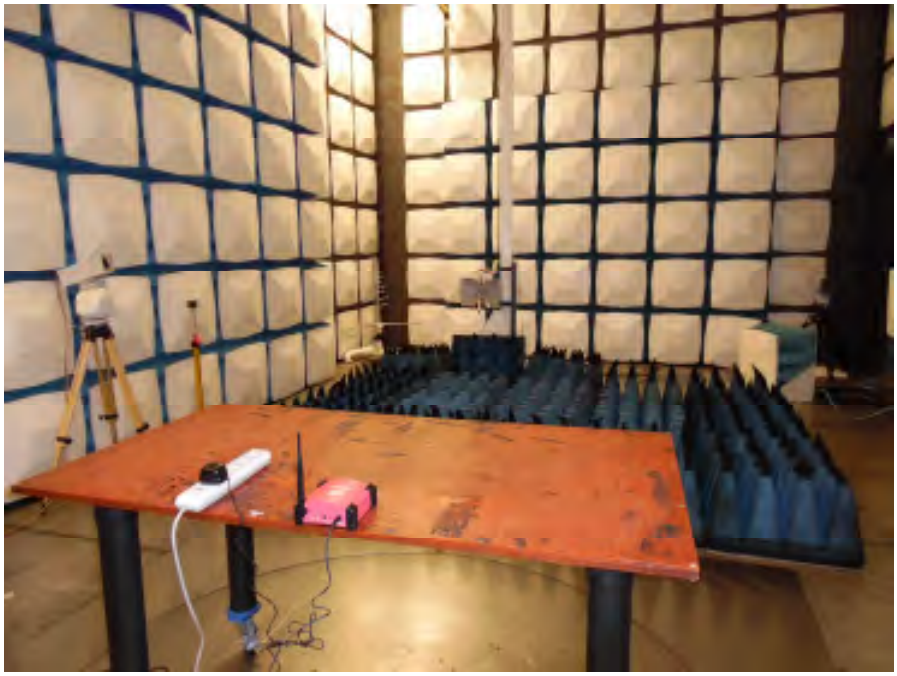
7. Photographs of the Test Set-Up

Photograph 1: Set-up for Radiation Measurement below 1GHz





Photograph 2: Set-up for Radiation Measurement above 1GHz



6 List of Tables

7 List of Photographs

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

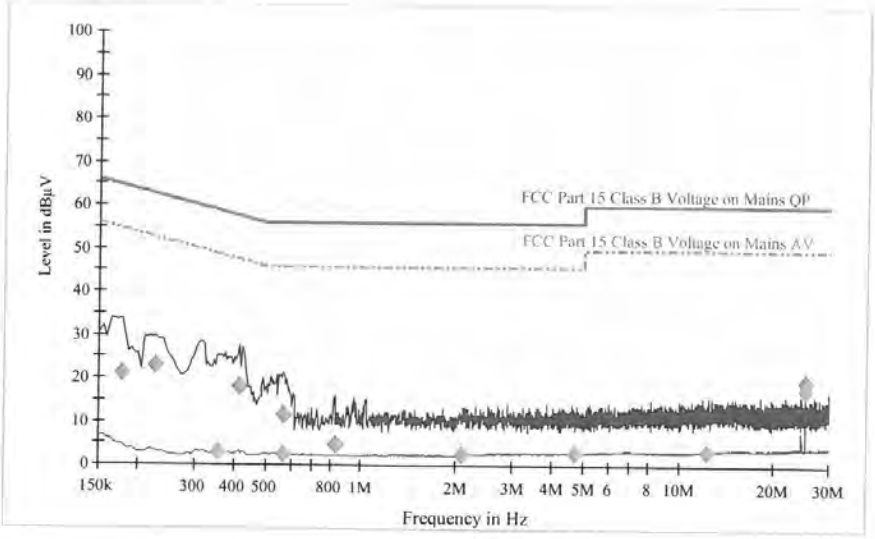
EMC Test Record (EMISSION)

Common Information

Manufacturer:	Seikaku
Test Item:	Wireless ~~receiver~~ transmitter
Identification:	DST-24T
Test Standard:	FCC Part 15.~~107~~ 207
Test Detail:	Conducted Emission
Operation Mode:	Transmitting
Climate Condition:	20°C; 50%RH; 101kPa.
Test Voltage/ Freq.:	AC 120 V/ 60 Hz
Port / Line:	AC Mains(L1+N)
Receipt No.:	174022303
Report No.:	16061108 001
Result:	Pass
	/
Hardware Setup:	1phase LISN ESH3-Z5 to ESCS 30
Level Unit:	dBµV

YJX 2014-06-10 Checked

Subrange	Detectors	IF Bandwidth	Step Size	Meas. Time	Receiver
150kHz - 30MHz	Peak, Average	9kHz	4.5kHz	10ms	ESCS 30



Sign-off Test Data

YJX 2014-06-10 Checked

HCL 2014-06-10 Checked

6/10/2014, 11:01:20

Tested by: _____ Reviewed by: _____

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.177000	20.9	2000.0	9.000	GND	L1	10.0	43.7	64.6	
0.226500	22.9	2000.0	9.000	GND	L1	9.9	39.7	62.6	
0.415500	18.1	2000.0	9.000	GND	L1	10.2	39.4	57.5	
0.568500	11.7	2000.0	9.000	GND	L1	10.3	44.3	56.0	
0.825000	4.8	2000.0	9.000	GND	N	10.0	51.2	56.0	
25.228500	19.8	2000.0	9.000	GND	L1	11.9	40.2	60.0	

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.357000	2.9	2000.0	9.000	GND	L1	10.1	45.9	48.8	
0.568500	2.6	2000.0	9.000	GND	L1	10.3	43.4	46.0	
2.094000	2.6	2000.0	9.000	GND	N	10.6	43.4	46.0	
4.722000	2.9	2000.0	9.000	GND	L1	10.8	43.2	46.0	
12.268500	3.3	2000.0	9.000	GND	L1	11.2	46.7	50.0	
25.228500	17.9	2000.0	9.000	GND	L1	11.9	32.1	50.0	

Sign-off Test Data

YJX Checked

HCH Checked

6/10/2014, 11:01:20

Tested by: _____ Reviewed by: _____

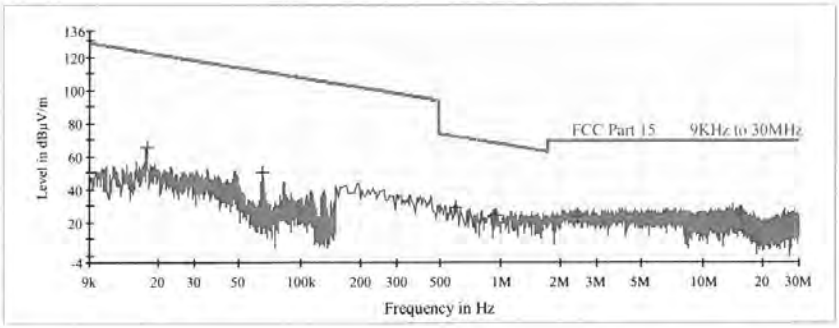
TUV Rheinland (Guangdong) Ltd. EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Wireless System
Identification:	DST-24T
Test Standard:	FCC Part 15.209
Test Detail:	RE
Operation Mode:	Tx @ High channel
Climate Condition:	23℃ ; 50 %RH; 101 kPa.
Test Voltage/ Freq:	AC 120 V / 60 Hz
Receipt No:	174022303
Report No:	16061108 001
Result:	Pass
Comment:	Test distance is 3m, Horizontal

Subrange 1	
Frequency Range:	9K-30MHz
Receiver:	TUV ESCI
Transducer:	TUV SAC HFH2-Z2/ TUV ESCI -TUV SAC HFH2-Z2



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
0.017400	/	65.6	1000.0	0.200	H	20.7	57.2	122.9
0.065560	/	50.5	1000.0	0.200	H	20.5	60.8	111.3
0.598000	29.6	/	1000.0	9.000	H	20.7	42.5	72.1
0.942000	24.6	/	1000.0	9.000	H	20.4	43.6	68.1
2.410000	23.9	/	1000.0	9.000	H	20.6	45.6	69.5
15.446000	25.9	/	1000.0	9.000	H	22.3	43.6	69.5

Sign-off Test Data

YJX 2014-08-15 Checked

HCH Checked

Date: 8/14/2014 - Time: 1:04:44 Tested by: _____ Reviewed by: _____

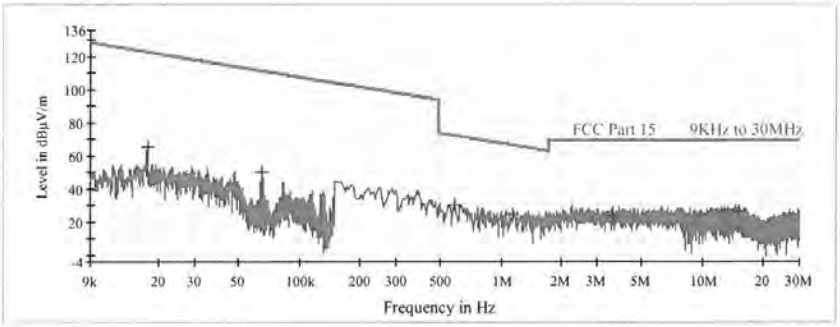
TUV Rheinland (Guangdong) Ltd. EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Wireless System
Identification:	DST-24T
Test Standard:	FCC Part 15.209
Test Detail:	RE
Operation Mode:	Tx @ High channel
Climate Condition:	23℃ ; 50 %RH; 101 kPa.
Test Voltage/ Freq:	AC 120 V / 60 Hz
Receipt No:	174022303
Report No:	16061108 001
Result:	Pass
Comment:	Test distance is 3m, Vertical

Subrange 1	
Frequency Range:	9K-30MHz
Receiver:	TUV ESCI
Transducer:	TUV SAC HFH2-Z2/ TUV ESCI -TUV SAC HFH2-Z2



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
0.017400	/	65.6	1000.0	0.200	V	20.7	57.3	122.9
0.065560	/	50.5	1000.0	0.200	V	20.5	60.8	111.3
0.582000	30.2	/	1000.0	9.000	V	20.7	42.1	72.3
1.138000	24.3	/	1000.0	9.000	V	20.5	42.2	66.5
3.594000	24.0	/	1000.0	9.000	V	20.7	45.5	69.5
15.014000	26.5	/	1000.0	9.000	V	23.1	43.0	69.5

Sign-off Test Data

YJX 2014-08-15 Checked

Checked

Date: 8/14/2014 - Time: 1:16:33 Tested by: _____ Reviewed by: _____

TUV Rheinland (Guangdong) Ltd.

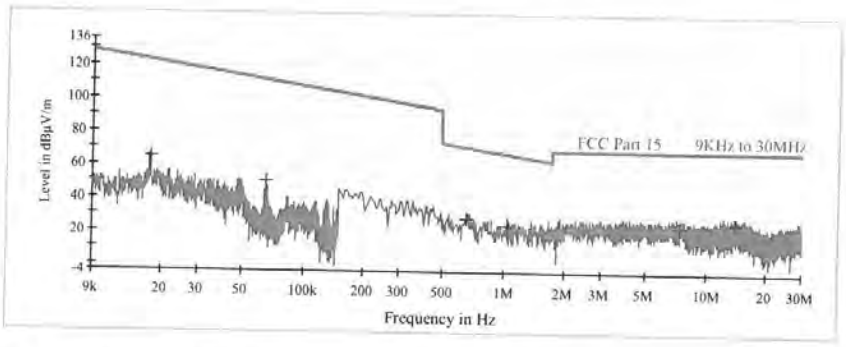
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Wireless System
Identification:	DST-24T
Test Standard:	FCC Part 15.209
Test Detail:	RE
Operation Mode:	Tx @ Mid channel
Climate Condition:	23℃ ; 50 %RH; 101 kPa.
Test Voltage/ Freq:	AC 120 V / 60 Hz
Receipt No:	174022303
Report No:	16061108 001
Result:	Pass
Comment:	Test distance is 3m, Horizontal

Subrange 1	
Frequency Range:	9K-30MHz
Receiver:	TUV ESCI
Transducer:	TUV SAC HFH2-Z2/ TUV ESCI -TUV SAC HFH2-Z2



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
0.017400	/	65.0	1000.0	0.200	H	20.7	57.8	122.9
0.065560	/	50.5	1000.0	0.200	H	20.5	60.8	111.3
0.654000	28.1	/	1000.0	9.000	H	20.6	43.2	71.3
1.034000	24.4	/	1000.0	9.000	H	20.4	43.0	67.3
7.338000	24.0	/	1000.0	9.000	H	20.7	45.5	69.5
14.182000	26.2	/	1000.0	9.000	H	22.8	43.3	69.5

Cut off Test Data

YJX 2014-06-10 Checked

HCH 2014-06-10 Checked

Date: 6/9/2014 - Time: 1:09:04

Tested by: _____ Reviewed by: _____

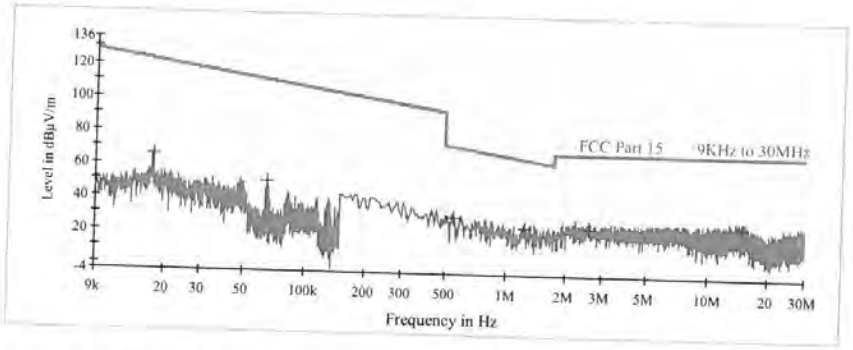
TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Wireless System
Identification:	DST-24T
Test Standard:	FCC Part 15.209
Test Detail:	RE
Operation Mode:	Tx @ Mid channel
Climate Condition:	23℃ ; 50 %RH; 101 kPa.
Test Voltage/ Freq:	AC 120 V / 60 Hz
Receipt No:	174022303
Report No:	16061108 001
Result:	Pass
Comment:	Test distance is 3m, Vertical
Subrange 1	
Frequency Range:	9K-30MHz
Receiver:	TUV ESCI
Transducer:	TUV SAC HFH2-Z2/ TUV ESCI -TUV SAC HFH2-Z2



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
0.017400	/	65.7	1000.0	0.200	V	20.7	57.2	122.9
0.065560	/	50.5	1000.0	0.200	V	20.5	60.8	111.3
0.546000	30.0	/	1000.0	9.000	V	20.7	42.8	72.9
1.234000	24.4	/	1000.0	9.000	V	20.5	41.4	65.8
2.582000	24.1	/	1000.0	9.000	V	20.5	45.4	69.5
14.954000	26.5	/	1000.0	9.000	V	23.1	43.0	69.5

Sign-off Test Data

YJX 2014-6-10 Checked

HCM 2014-6-10 Checked

Date: 6/9/2014 - Time: 1:21:03

Tested by: _____ Reviewed by: _____

TUV Rheinland (Guangdong) Ltd. EMC Test Service Hotline: +86-20-28391188

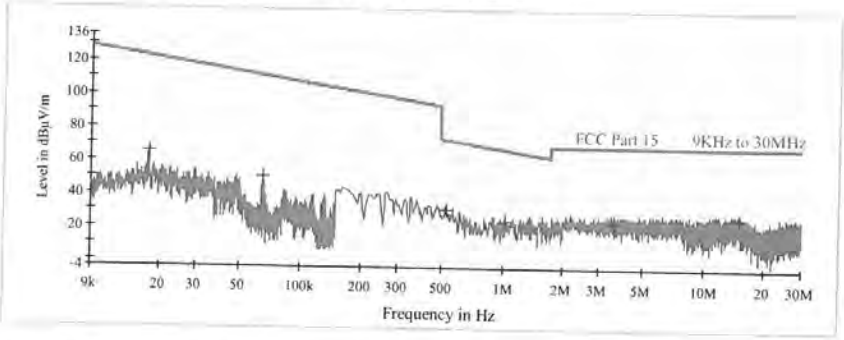
EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Wireless System
Identification:	DST-24T
Test Standard:	FCC Part 15.209
Test Detail:	RE
Operation Mode:	Tx @ Low channel
Climate Condition:	23℃ ; 50 %RH; 101 kPa.
Test Voltage/ Freq:	AC 120 V / 60 Hz
Receipt No:	174022303
Report No:	16061108 001
Result:	Pass
Comment:	Test distance is 3m, Horizontal

Subrange 1	
Frequency Range:	9K-30MHz
Receiver:	TUV ESCI
Transducer:	TUV SAC HFH2-Z2/ TUV ESCI -TUV SAC HFH2-Z2

Pre TUV 9K to 30M HFH2-Z2



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
0.017400	/	65.4	1000.0	0.200	H	20.7	57.5	122.9
0.065560	/	50.5	1000.0	0.200	H	20.5	60.8	111.3
0.522000	31.4	/	1000.0	9.000	H	20.7	41.9	73.3
1.014000	24.4	/	1000.0	9.000	H	20.4	43.1	67.5
3.586000	24.0	/	1000.0	9.000	H	20.6	45.5	69.5
15.218000	26.4	/	1000.0	9.000	H	22.7	43.1	69.5

Sign-off Test Data

YJX 2014-06-10 Checked

HCH 2014-06-10 Checked

Date: 6/9/2014 - Time: 1:06:54 Tested by: _____ Reviewed by: _____

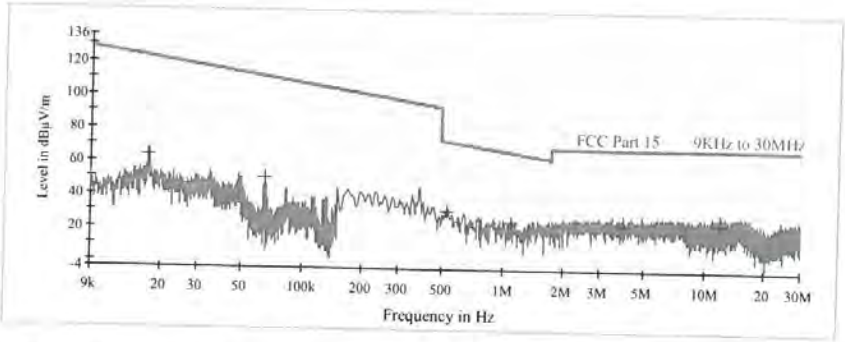
TUV Rheinland (Guangdong) Ltd. EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Wireless System
Identification:	DST-24T
Test Standard:	FCC Part 15.209
Test Detail:	RE
Operation Mode:	Tx @ Low channel
Climate Condition:	23℃ ; 50 %RH; 101 kPa.
Test Voltage/ Freq:	AC 120 V / 60 Hz
Receipt No:	174022303
Report No:	16061108 001
Result:	Pass
Comment:	Test distance is 3m, Vertical

Subrange 1	
Frequency Range:	9K-30MHz
Receiver:	TUV ESCI
Transducer:	TUV SAC HFH2-Z2/ TUV ESCI -TUV SAC HFH2-Z2



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
0.017320	/	63.9	1000.0	0.200	V	20.7	59.0	122.9
0.065560	/	50.5	1000.0	0.200	V	20.5	60.8	111.3
0.526000	31.4	/	1000.0	9.000	V	20.7	41.8	73.2
1.090000	24.8	/	1000.0	9.000	V	20.4	42.1	66.9
3.926000	24.0	/	1000.0	9.000	V	20.8	45.5	69.5
11.994000	25.0	/	1000.0	9.000	V	21.9	44.5	69.5

Sign-off Test Data

YJX 2014-06-10 Checked

Date: 6/9/2014 - Time: 1:18:43

Tested by: Checked Reviewed by: _____

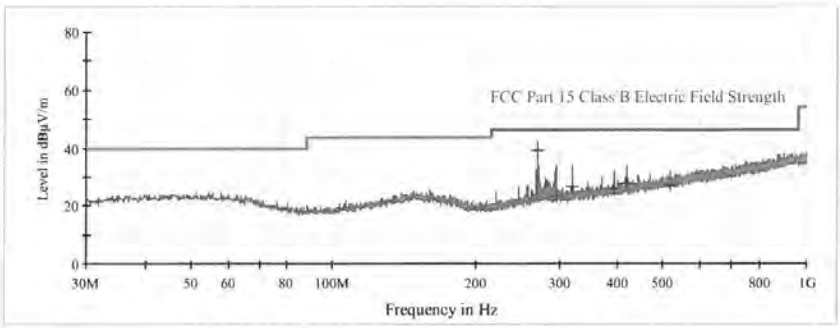
TUV Rheinland (Guangdong) Ltd. EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Wireless System
Identification:	DST-24T
Test Standard:	FCC Part 15.209
Test Detail:	RE
Operation Mode:	Tx @ High channel
Climate Condition:	23℃ ; 50 %RH; 101 kPa.
Test Voltage/ Freq:	AC 120 V / 60 Hz
Receipt No:	174022303
Report No:	16061108 001
Result:	Pass
Comment:	Test distance is 3m, Horizontal

Subrange 1	
Frequency Range:	30M-1GHz
Receiver:	TUV ESCI
Transducer:	TUV SAC UVLB 9168/ TUV ESCI -TUV SAC UVLB 9168



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
270.300000	39.3	1000.0	120.000	H	15.0	6.7	46.0
294.950000	23.2	1000.0	120.000	H	15.8	22.8	46.0
319.400000	26.7	1000.0	120.000	H	16.6	19.3	46.0
393.250000	26.3	1000.0	120.000	H	18.3	19.7	46.0
417.750000	27.7	1000.0	120.000	H	19.0	18.3	46.0
516.200000	27.0	1000.0	120.000	H	21.1	19.0	46.0

Sign-off Test Data

Date: 8/14/2014 - Time: 2:16:10 Tested by: _____ Reviewed by: _____

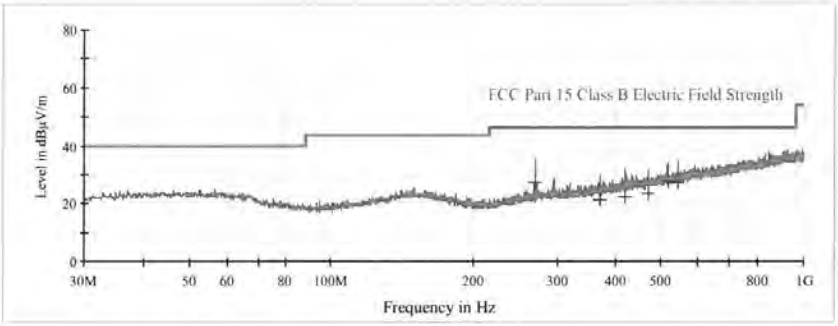
TUV Rheinland (Guangdong) Ltd. EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Wireless System
Identification:	DST-24T
Test Standard:	FCC Part 15.209
Test Detail:	RE
Operation Mode:	Tx @ High channel
Climate Condition:	23℃ ; 50 %RH; 101 kPa.
Test Voltage/ Freq:	AC 120 V / 60 Hz
Receipt No:	174022303
Report No:	16061108 001
Result:	Pass
Comment:	Test distance is 3m, Vertical

Subrange 1	
Frequency Range:	30M-1GHz
Receiver:	TUV ESCI
Transducer:	TUV SAC UVLB 9168/ TUV ESCI -TUV SAC UVLB 9168



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
270.300000	27.2	1000.0	120.000	V	15.0	18.8	46.0
368.650000	21.1	1000.0	120.000	V	17.8	24.9	46.0
417.750000	22.3	1000.0	120.000	V	19.0	23.7	46.0
467.000000	23.3	1000.0	120.000	V	20.1	22.7	46.0
516.100000	27.5	1000.0	120.000	V	21.1	18.5	46.0
540.700000	27.3	1000.0	120.000	V	21.5	18.7	46.0

Sign-off Test Data

YJX 2014-08-15 Checked

Date: 8/14/2014 - Time: 2:20:33 Tested by: _____ Reviewed by: _____

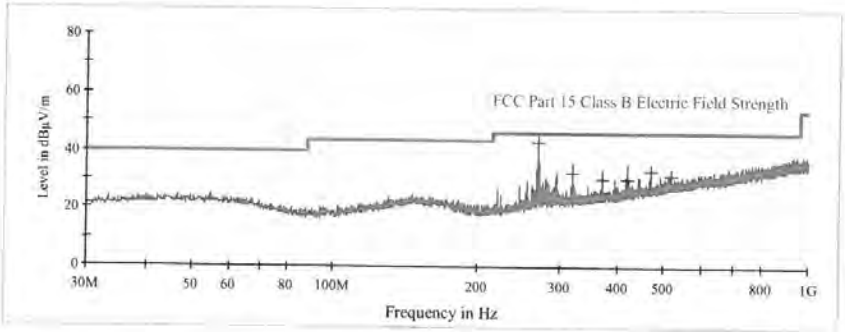
TUV Rheinland (Guangdong) Ltd. EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Wireless System
Identification:	DST-24T
Test Standard:	FCC Part 15.209
Test Detail:	RE
Operation Mode:	Tx @ Mid channel
Climate Condition:	23℃ ; 50 %RH; 101 kPa.
Test Voltage/ Freq:	AC 120 V / 60 Hz
Receipt No:	174022303
Report No:	16061108 001
Result:	Pass
Comment:	Test distance is 3m, Horizontal

Subrange 1	
Frequency Range:	30M-1GHz
Receiver:	TUV ESCI
Transducer:	TUV SAC UVLB 9168/ TUV ESCI -TUV SAC UVLB 9168



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
270.300000	42.8	1000.0	120.000	H	15.0	3.2	46.0
319.400000	32.9	1000.0	120.000	H	16.6	13.1	46.0
368.650000	30.7	1000.0	120.000	H	17.8	15.3	46.0
417.900000	30.5	1000.0	120.000	H	19.0	15.5	46.0
467.000000	33.0	1000.0	120.000	H	20.1	13.0	46.0
516.100000	31.7	1000.0	120.000	H	21.1	14.3	46.0

Sign-off Test Data

YJX 2014-06-10 Checked

HCH 2014-06-10 Checked

Date: 6/6/2014 - Time: 2:28:44 Tested by: _____ Reviewed by: _____

TUV Rheinland (Guangdong) Ltd.

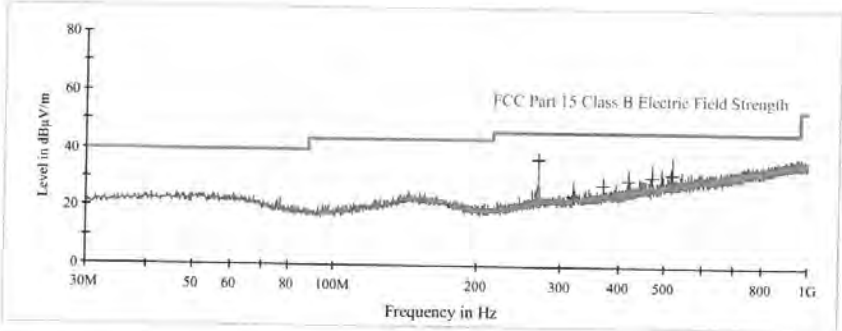
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Wireless System
Identification:	DST-24T
Test Standard:	FCC Part 15.209
Test Detail:	RE
Operation Mode:	Tx @ Mid channel
Climate Condition:	23℃ ; 50 %RH; 101 kPa.
Test Voltage/ Freq:	AC 120 V / 60 Hz
Receipt No:	174022303
Report No:	16061108 001
Result:	Pass
Comment:	Test distance is 3m, Vertical

Subrange 1	
Frequency Range:	30M-1GHz
Receiver:	TUV ESCI
Transducer:	TUV SAC UVLB 9168/ TUV ESCI -TUV SAC UVLB 9168



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
270.300000	37.0	1000.0	120.000	V	15.0	9.0	46.0
319.400000	24.7	1000.0	120.000	V	16.6	21.3	46.0
368.650000	28.4	1000.0	120.000	V	17.8	17.6	46.0
417.750000	30.1	1000.0	120.000	V	19.0	15.9	46.0
467.000000	31.0	1000.0	120.000	V	20.1	15.0	46.0
516.100000	32.0	1000.0	120.000	V	21.1	14.0	46.0

Test Data

YJX 2014-06-10 Checked

HCH 2014-06-10 Checked

Date: 6/6/2014 - Time: 2:24:55

Tested by: _____ Reviewed by: _____

TUV Rheinland (Guangdong) Ltd.

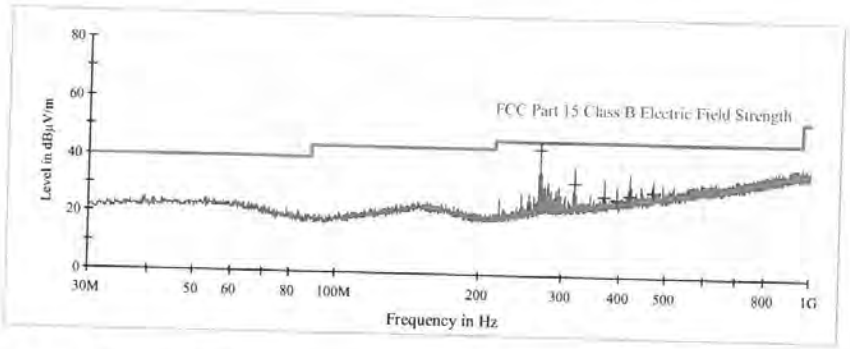
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Wireless System
Identification:	DST-24T
Test Standard:	FCC Part 15.209
Test Detail:	RE
Operation Mode:	Tx @ Low channel
Climate Condition:	23℃ ; 50 %RH; 101 kPa.
Test Voltage/ Freq:	AC 120 V / 60 Hz
Receipt No:	174022303
Report No:	16061108 001
Result:	Pass
Comment:	Test distance is 3m, Horizontal

Subrange 1	
Frequency Range:	30M-1GHz
Receiver:	TUV ESCI
Transducer:	TUV SAC UVLB 9168/ TUV ESCI -TUV SAC UVLB 9168



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
270.300000	43.5	1000.0	120.000	H	15.0	2.5	46.0
319.400000	32.3	1000.0	120.000	H	16.6	13.7	46.0
368.650000	27.9	1000.0	120.000	H	17.8	18.1	46.0
393.250000	26.9	1000.0	120.000	H	18.3	19.1	46.0
417.900000	28.2	1000.0	120.000	H	19.0	17.8	46.0
467.000000	29.4	1000.0	120.000	H	20.1	16.6	46.0

Sign-off Test Data

YJX 2014-06-10 Checked

HCH 2014-06-10 Checked

Date: 6/6/2014 - Time: 2:32:54

Tested by: _____ Reviewed by: _____

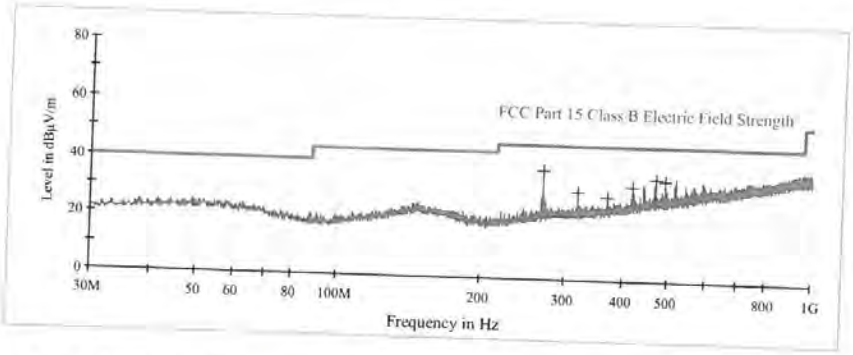
TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Wireless System
Identification:	DST-24T
Test Standard:	FCC Part 15.209
Test Detail:	RE
Operation Mode:	Tx @ Low channel
Climate Condition:	23℃ ; 50 %RH; 101 kPa.
Test Voltage/ Freq:	AC 120 V / 60 Hz
Receipt No:	174022303
Report No:	16061108 001
Result:	Pass
Comment:	Test distance is 3m, Vertical
Subrange 1	
Frequency Range:	30M-1GHz
Receiver:	TUV ESCI
Transducer:	TUV SAC UVLB 9168/ TUV ESCI -TUV SAC UVLB 9168



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
270.300000	37.4	1000.0	120.000	V	15.0	8.6	46.0
319.400000	30.6	1000.0	120.000	V	16.6	15.4	46.0
368.650000	29.0	1000.0	120.000	V	17.8	17.0	46.0
417.900000	32.4	1000.0	120.000	V	19.0	13.6	46.0
467.000000	35.4	1000.0	120.000	V	20.1	10.6	46.0
491.500000	34.8	1000.0	120.000	V	20.5	11.2	46.0

Draft Test Data

Date: 6/6/2014 - Time: 2:37:27

Tested by: YJX 2014-06-10 Checked

Reviewed by: HCH 2014-06-10 Checked

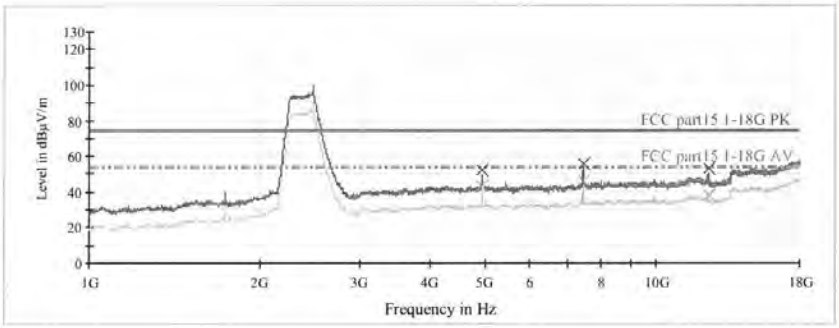
TUV Rheinland (Guangdong) Ltd. EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Wireless System
Identification:	DST-24T
Test Standard:	FCC Part 15.209
Test Detail:	RE
Operation Mode:	Tx @ High channel
Climate Condition:	23℃ ; 50 %RH; 101 kPa.
Test Voltage/ Freq:	AC 120 V / 60 Hz
Receipt No:	174022303
Report No:	16061108 001
Result:	Pass
Comment:	Test distance is 3m, Horizontal

Subrange 1	
Frequency Range:	1GHz-18GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC HF907/ TUV FSP30-TUV SAC HF907



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/
4953.000000	52.2	1000.0	1000.000	H	-3.2	21.8	74.0
7428.000000	56.1	1000.0	1000.000	H	0.2	17.9	74.0
12386.000000	53.4	1000.0	1000.000	H	3.9	20.6	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/
4953.000000	43.3	1000.0	1000.000	H	-3.2	10.7	54.0
7428.000000	46.3	1000.0	1000.000	H	0.2	7.7	54.0
12386.000000	38.3	1000.0	1000.000	H	3.9	15.7	54.0

Sign-off Test Data

YJX 2014-09-15 Checked

Checked

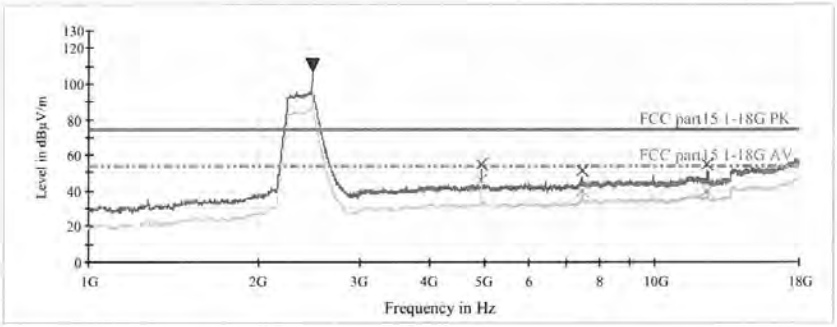
Date: 8/14/2014 - Time: 6:09:11 Tested by: _____ Reviewed by: _____

TUV Rheinland (Guangdong) Ltd. EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Wireless System
Identification:	DST-24T
Test Standard:	FCC Part 15.209
Test Detail:	RE
Operation Mode:	Tx @ High channel
Climate Condition:	23℃ ; 50 %RH; 101 kPa.
Test Voltage/ Freq:	AC 120 V / 60 Hz
Receipt No:	174022303
Report No:	16061108 001
Result:	Pass
Comment:	Test distance is 3m, Vertical
Subrange 1	
Frequency Range:	1GHz-18GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC HF907/ TUV FSP30-TUV SAC HF907



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/
4953.000000	54.8	1000.0	1000.000	V	-3.2	19.2	74.0
7430.000000	50.9	1000.0	1000.000	V	0.2	23.1	74.0
12375.000000	54.6	1000.0	1000.000	V	3.9	19.4	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/
4953.000000	54.8	1000.0	1000.000	V	-3.2	7.7	54.0
7430.000000	50.9	1000.0	1000.000	V	0.2	14.0	54.0
12375.000000	54.6	1000.0	1000.000	V	3.9	13.9	54.0

Sign-off Test Data

YJX 2014-08-15 Chec

HCH Checked

Date: 8/14/2014 - Time: 6:02:03 Tested by: _____ Reviewed by: _____

TUV Rheinland (Guangdong) Ltd.

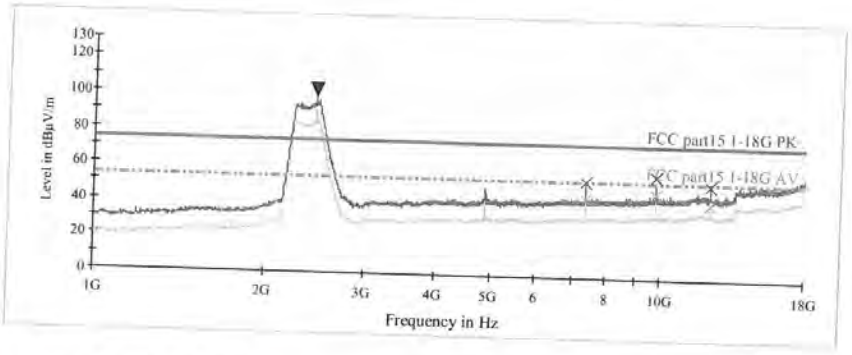
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Wireless System
Identification:	DST-24T
Test Standard:	FCC Part 15.209
Test Detail:	RE
Operation Mode:	Tx @ Mid channel
Climate Condition:	23℃ ; 50 %RH; 101 kPa.
Test Voltage/ Freq:	AC 120 V / 60 Hz
Receipt No:	174022303
Report No:	16061108 001
Result:	Pass
Comment:	Test distance is 3m, Horizontal

Subrange 1	
Frequency Range:	1GHz-18GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC HF907/ TUV FSP30-TUV SAC HF907



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/
7343.000000	53.8	1000.0	1000.000	H	-0.3	20.2	74.0
9791.000000	57.7	1000.0	1000.000	H	4.3	16.3	74.0
12239.000000	52.8	1000.0	1000.000	H	4.0	21.2	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/
7343.000000	44.7	1000.0	1000.000	H	-0.3	9.3	54.0
9791.000000	47.5	1000.0	1000.000	H	4.3	6.5	54.0
12239.000000	42.9	1000.0	1000.000	H	4.0	11.1	54.0

Test Data

YJX 2014-06-10 Checked

HCH 2014-06-10 Checked

Date: 6/6/2014 - Time: 5:56:36

Tested by: _____ Reviewed by: _____

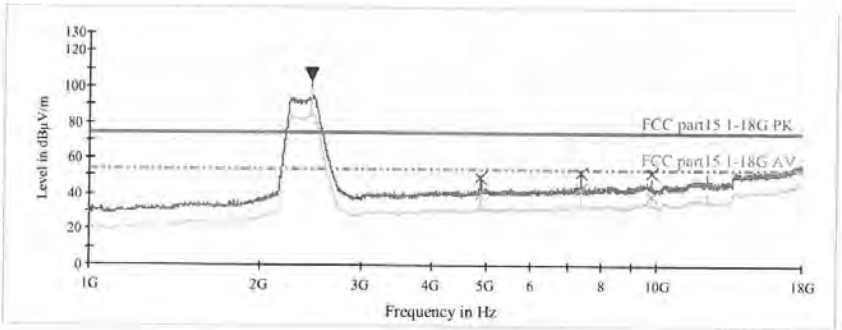
TUV Rheinland (Guangdong) Ltd. EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Wireless System
Identification:	DST-24T
Test Standard:	FCC Part 15.209
Test Detail:	RE
Operation Mode:	Tx @ Mid channel
Climate Condition:	23℃ ; 50 %RH; 101 kPa.
Test Voltage/ Freq:	AC 120 V / 60 Hz
Receipt No:	174022303
Report No:	16061108 001
Result:	Pass
Comment:	Test distance is 3m, Vertical

Subrange 1	
Frequency Range:	1GHz-18GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC HF907/ TUV FSP30-TUV SAC HF907



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
4895.000000	49.6	1000.0	1000.000	V	-3.5	24.4	74.0
7343.000000	52.6	1000.0	1000.000	V	-0.3	21.4	74.0
9795.000000	51.9	1000.0	1000.000	V	4.3	22.1	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
4895.000000	40.0	1000.0	1000.000	V	-3.5	14.0	54.0
7343.000000	43.3	1000.0	1000.000	V	-0.3	10.7	54.0
9795.000000	39.2	1000.0	1000.000	V	4.3	14.8	54.0

Signoff Test Data

YJX 2014-06-10 Checked

HCH 2014-06-10 Checked

Date: 6/6/2014 - Time: 6:02:48 Tested by: _____ Reviewed by: _____

TUV Rheinland (Guangdong) Ltd.

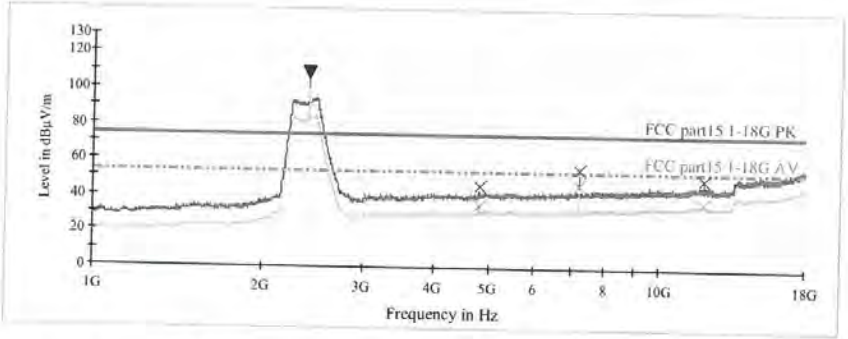
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Wireless System
Identification:	DST-24T
Test Standard:	FCC Part 15.209
Test Detail:	RE
Operation Mode:	Tx @ Low channel
Climate Condition:	23℃ ; 50 %RH; 101 kPa.
Test Voltage/ Freq:	AC 120 V / 60 Hz
Receipt No:	174022303
Report No:	16061108 001
Result:	Pass
Comment:	Test distance is 3m, Horizontal

Subrange 1	
Frequency Range:	1GHz-18GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC HF907/ TUV FSP30-TUV SAC HF907



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/
4808.000000	45.8	1000.0	1000.000	H	-3.7	28.2	74.0
7211.000000	55.6	1000.0	1000.000	H	0.1	18.4	74.0
7211.000000	55.6	1000.0	1000.000	H	0.1	18.4	74.0
12025.000000	50.6	1000.0	1000.000	H	4.1	23.4	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/
4808.000000	35.2	1000.0	1000.000	H	-3.7	18.8	54.0
7211.000000	47.1	1000.0	1000.000	H	0.1	6.9	54.0
7211.000000	47.1	1000.0	1000.000	H	0.1	6.9	54.0
12025.000000	37.4	1000.0	1000.000	H	4.1	16.6	54.0

Sign-off Test Data

YJX 2014-06-10 Checked

HCH 2014-06-10 Checked

Date: 6/6/2014 - Time: 5:32:28

Tested by: _____ Reviewed by: _____

TUV Rheinland (Guangdong) Ltd.

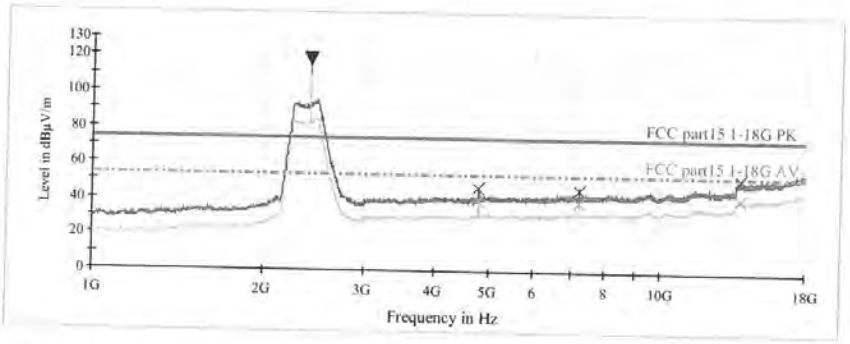
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Wireless System
Identification:	DST-24T
Test Standard:	FCC Part 15.209
Test Detail:	RE
Operation Mode:	Tx @ Low channel
Climate Condition:	23℃ ; 50 %RH; 101 kPa.
Test Voltage/ Freq:	AC 120 V / 60 Hz
Receipt No:	174022303
Report No:	16061108 001
Result:	Pass
Comment:	Test distance is 3m, Vertical

Subrange 1	
Frequency Range:	1GHz-18GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC HF907/ TUV FSP30-TUV SAC HF907



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/
4806.000000	47.2	1000.0	1000.000	V	-3.7	26.8	74.0
7214.000000	46.3	1000.0	1000.000	V	0.1	27.7	74.0
13865.000000	52.9	1000.0	1000.000	V	4.6	21.1	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/
4806.000000	39.6	1000.0	1000.000	V	-3.7	14.4	54.0
7214.000000	39.1	1000.0	1000.000	V	0.1	14.9	54.0
13865.000000	41.2	1000.0	1000.000	V	4.6	12.8	54.0

Date: 6/6/2014 - Time: 5:37:15

Tested by: _____ Reviewed by: _____

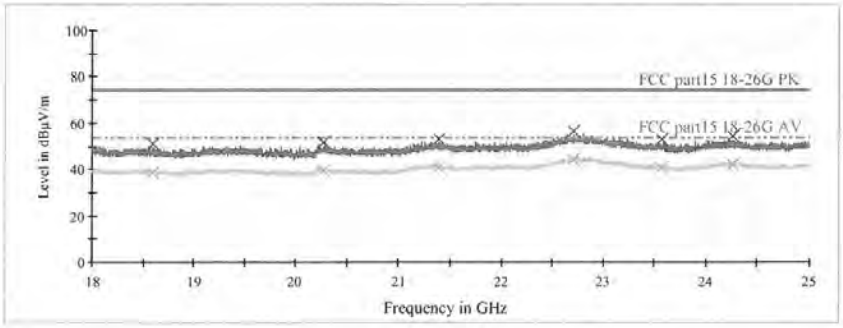
TUV Rheinland (Guangdong) Ltd. EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Wireless System
Identification:	DST-24T
Test Standard:	FCC Part 15.209
Test Detail:	RE
Operation Mode:	Tx @ High channel
Climate Condition:	23℃ ; 50 %RH; 101 kPa.
Test Voltage/ Freq:	AC 120 V / 60 Hz
Receipt No:	174022303
Report No:	16061108 001
Result:	Pass
Comment:	Test distance is 3m, Horizontal

Subrange 1	
Frequency Range:	18GHz-25GHz
Receiver:	TUV 3160-09
Transducer:	TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/
18595.000000	50.9	1000.0	1000.000	H	4.4	23.1	74.0
20279.000000	51.5	1000.0	1000.000	H	4.8	22.5	74.0
21385.000000	52.7	1000.0	1000.000	H	6.0	21.3	74.0
22720.000000	56.5	1000.0	1000.000	H	9.0	17.5	74.0
23579.000000	52.7	1000.0	1000.000	H	6.2	21.3	74.0
24269.000000	54.1	1000.0	1000.000	H	5.9	19.9	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/
18595.000000	38.9	1000.0	1000.000	H	4.4	15.1	54.0
20279.000000	39.8	1000.0	1000.000	H	4.8	14.2	54.0
21385.000000	40.9	1000.0	1000.000	H	6.0	13.1	54.0
22720.000000	43.9	1000.0	1000.000	H	9.0	10.1	54.0
23579.000000	41.0	1000.0	1000.000	H	6.2	13.0	54.0
24269.000000	42.1	1000.0	1000.000	H	5.9	11.9	54.0

Sign-off Data

Date: 8/14/2014 - Time: 4:23:22 Tested by: _____ Reviewed by: _____

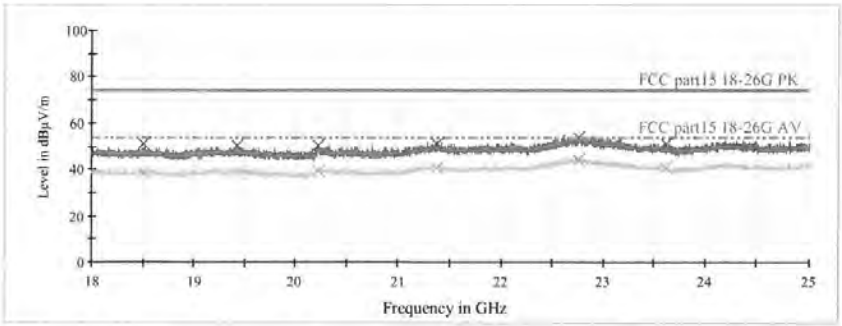
TUV Rheinland (Guangdong) Ltd. EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Wireless System
Identification:	DST-24T
Test Standard:	FCC Part 15.209
Test Detail:	RE
Operation Mode:	Tx @ High channel
Climate Condition:	23℃ ; 50 %RH; 101 kPa.
Test Voltage/ Freq:	AC 120 V / 60 Hz
Receipt No:	174022303
Report No:	16061108 001
Result:	Pass
Comment:	Test distance is 3m, Vertical

Subrange 1	
Frequency Range:	18GHz-25GHz
Receiver:	TUV 3160-09
Transducer:	TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/
18505.000000	50.7	1000.0	1000.000	V	4.3	23.3	74.0
19426.000000	50.6	1000.0	1000.000	V	4.9	23.4	74.0
20224.000000	50.2	1000.0	1000.000	V	4.8	23.8	74.0
21372.000000	50.7	1000.0	1000.000	V	6.0	23.3	74.0
22754.000000	53.8	1000.0	1000.000	V	8.9	20.2	74.0
23615.000000	51.2	1000.0	1000.000	V	6.1	22.8	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/
18505.000000	38.7	1000.0	1000.000	V	4.3	15.3	54.0
19426.000000	39.1	1000.0	1000.000	V	4.9	14.9	54.0
20224.000000	39.7	1000.0	1000.000	V	4.8	14.3	54.0
21372.000000	41.0	1000.0	1000.000	V	6.0	13.0	54.0
22754.000000	44.1	1000.0	1000.000	V	8.9	9.9	54.0
23615.000000	40.7	1000.0	1000.000	V	6.1	13.3	54.0

Date: 8/14/2014 - Time: 4:27:52 Tested by: _____ Reviewed by: _____

TUV Rheinland (Guangdong) Ltd.

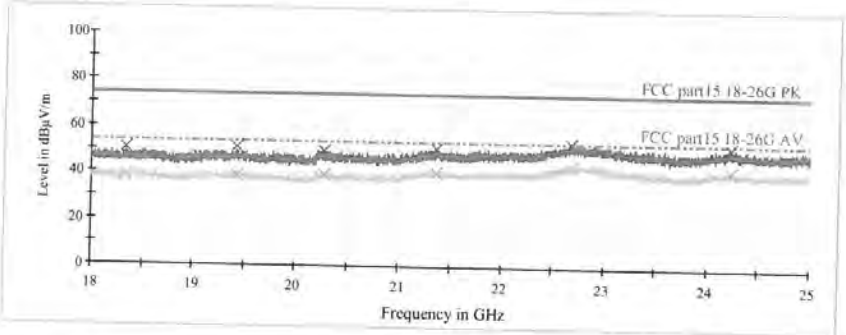
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Wireless System
Identification:	DST-24T
Test Standard:	FCC Part 15.209
Test Detail:	RE
Operation Mode:	Tx @ Mid channel
Climate Condition:	23℃ ; 50 %RH; 101 kPa.
Test Voltage/ Freq:	AC 120 V / 60 Hz
Receipt No:	174022303
Report No:	16061108 001
Result:	Pass
Comment:	Test distance is 3m, Horizontal

Subrange 1	
Frequency Range:	18GHz-25GHz
Receiver:	TUV 3160-09
Transducer:	TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/
18333.000000	50.1	1000.0	1000.000	H	4.0	23.9	74.0
19420.000000	50.8	1000.0	1000.000	H	4.9	23.2	74.0
20272.000000	49.6	1000.0	1000.000	H	4.8	24.4	74.0
21365.000000	51.2	1000.0	1000.000	H	6.0	22.8	74.0
22678.000000	53.5	1000.0	1000.000	H	9.1	20.5	74.0
24233.000000	52.5	1000.0	1000.000	H	5.9	21.5	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/
18333.000000	38.3	1000.0	1000.000	H	4.0	15.7	54.0
19420.000000	38.9	1000.0	1000.000	H	4.9	15.1	54.0
20272.000000	39.7	1000.0	1000.000	H	4.8	14.3	54.0
21365.000000	41.1	1000.0	1000.000	H	6.0	12.9	54.0
22678.000000	43.8	1000.0	1000.000	H	9.1	10.2	54.0
24233.000000	42.3	1000.0	1000.000	H	5.9	11.7	54.0

Date: 6/9/2014 - Time: 4:20:27

Sign-off Test Data

Tested by: _____ Reviewed by: _____

TUV Rheinland (Guangdong) Ltd.

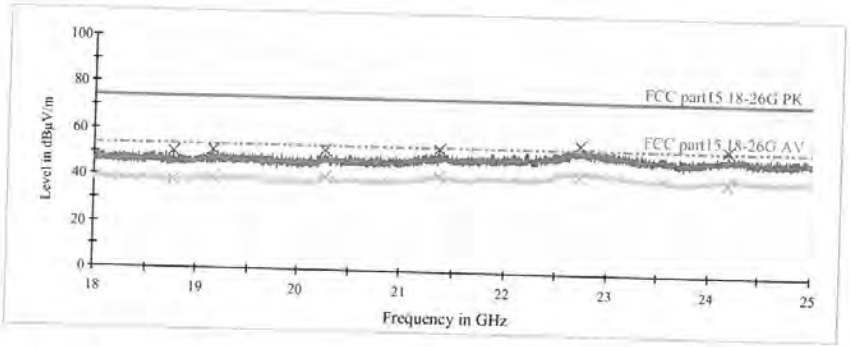
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Wireless System
Identification:	DST-24T
Test Standard:	FCC Part 15.209
Test Detail:	RE
Operation Mode:	Tx @ Mid channel
Climate Condition:	23℃ ; 50 %RH; 101 kPa.
Test Voltage/ Freq:	AC 120 V / 60 Hz
Receipt No:	174022303
Report No:	16061108 001
Result:	Pass
Comment:	Test distance is 3m, Vertical

Subrange 1	
Frequency Range:	18GHz-25GHz
Receiver:	TUV 3160-09
Transducer:	TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/
18770.000000	50.1	1000.0	1000.000	V	4.6	23.9	74.0
19152.000000	51.1	1000.0	1000.000	V	4.9	22.9	74.0
20258.000000	51.4	1000.0	1000.000	V	4.8	22.6	74.0
21357.000000	53.3	1000.0	1000.000	V	6.0	20.7	74.0
22729.000000	55.9	1000.0	1000.000	V	9.0	18.1	74.0
24180.000000	54.2	1000.0	1000.000	V	6.0	19.8	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/
18770.000000	38.2	1000.0	1000.000	V	4.6	15.8	54.0
19152.000000	39.2	1000.0	1000.000	V	4.9	14.8	54.0
20258.000000	39.9	1000.0	1000.000	V	4.8	14.1	54.0
21357.000000	41.2	1000.0	1000.000	V	6.0	12.8	54.0
22729.000000	42.2	1000.0	1000.000	V	9.0	11.8	54.0
24180.000000	40.2	1000.0	1000.000	V	6.0	13.8	54.0

Date: 6/9/2014 - Time: 4:16:29

Signature Test

Tested by: _____ Reviewed by: _____

TUV Rheinland (Guangdong) Ltd.

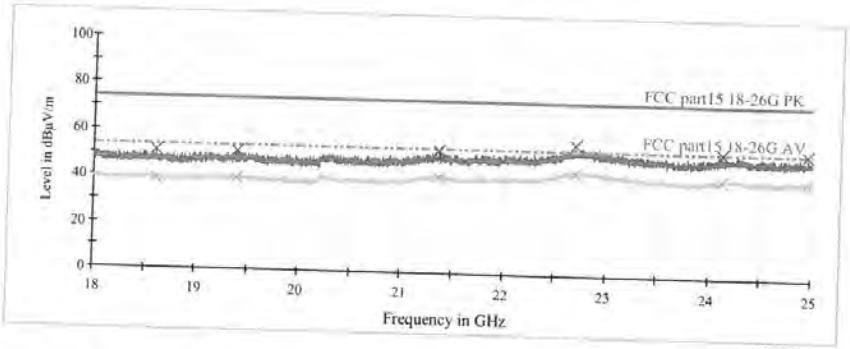
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Wireless System
Identification:	DST-24T
Test Standard:	FCC Part 15.209
Test Detail:	RE
Operation Mode:	Tx @ Low channel
Climate Condition:	23℃ ; 50 %RH; 101 kPa.
Test Voltage/ Freq:	AC 120 V / 60 Hz
Receipt No:	174022303
Report No:	16061108 001
Result:	Pass
Comment:	Test distance is 3m, Horizontal

Subrange 1	
Frequency Range:	18GHz-25GHz
Receiver:	TUV 3160-09
Transducer:	TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/
18615.000000	50.9	1000.0	1000.000	H	4.4	23.1	74.0
19391.000000	51.1	1000.0	1000.000	H	4.9	22.9	74.0
21367.000000	53.3	1000.0	1000.000	H	6.0	20.7	74.0
22694.000000	56.2	1000.0	1000.000	H	9.1	17.8	74.0
24127.000000	53.7	1000.0	1000.000	H	5.9	20.3	74.0
24961.000000	53.6	1000.0	1000.000	H	6.9	20.4	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/
18615.000000	39.1	1000.0	1000.000	H	4.4	14.9	54.0
19391.000000	39.5	1000.0	1000.000	H	4.9	14.5	54.0
21367.000000	41.4	1000.0	1000.000	H	6.0	12.6	54.0
22694.000000	44.1	1000.0	1000.000	H	9.1	9.9	54.0
24127.000000	42.2	1000.0	1000.000	H	5.9	11.8	54.0
24961.000000	41.6	1000.0	1000.000	H	6.9	12.4	54.0

Date: 6/9/2014 - Time: 4:09:53

Sign-off Test Da... Tested by: YBK 2014-06-10 Checked

Reviewed by: HCH 2014-06-10 Checked

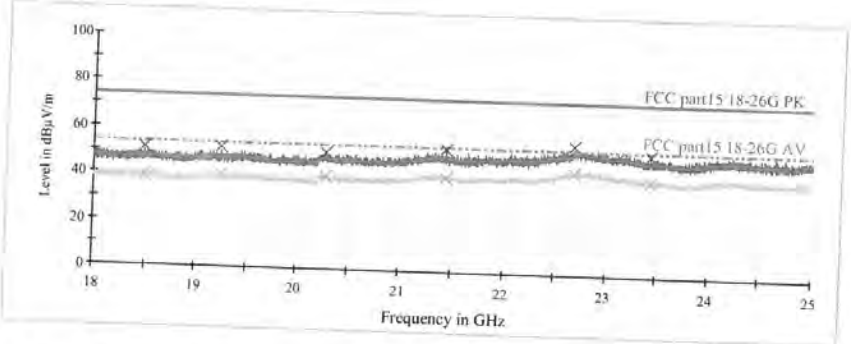
TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Wireless System
Identification:	DST-24T
Test Standard:	FCC Part 15.209
Test Detail:	RE
Operation Mode:	Tx @ Low channel
Climate Condition:	23℃ ; 50 %RH; 101 kPa.
Test Voltage/ Freq:	AC 120 V / 60 Hz
Receipt No:	174022303
Report No:	16061108 001
Result:	Pass
Comment:	Test distance is 3m, Vertical
Subrange 1	
Frequency Range:	18GHz-25GHz
Receiver:	TUV 3160-09
Transducer:	TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/
18494.000000	51.0	1000.0	1000.000	V	4.3	23.0	74.0
19243.000000	51.4	1000.0	1000.000	V	5.0	22.6	74.0
20279.000000	50.4	1000.0	1000.000	V	4.8	23.6	74.0
21441.000000	53.3	1000.0	1000.000	V	6.0	20.7	74.0
22678.000000	56.0	1000.0	1000.000	V	9.1	18.0	74.0
23436.000000	52.6	1000.0	1000.000	V	6.4	21.4	74.0

Limit and Margin AV

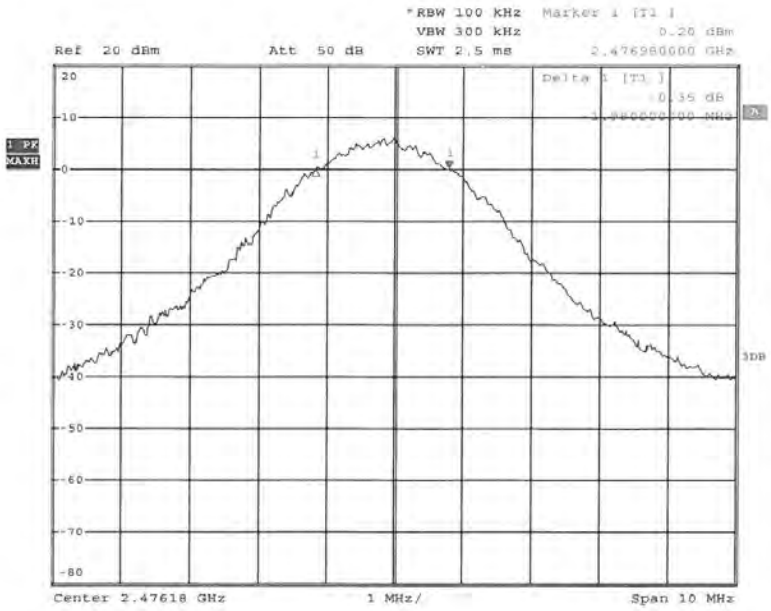
Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/
18494.000000	39.1	1000.0	1000.000	V	4.3	14.9	54.0
19243.000000	39.5	1000.0	1000.000	V	5.0	14.5	54.0
20279.000000	39.9	1000.0	1000.000	V	4.8	14.1	54.0
21441.000000	40.9	1000.0	1000.000	V	6.0	13.1	54.0
22678.000000	44.0	1000.0	1000.000	V	9.1	10.0	54.0
23436.000000	41.0	1000.0	1000.000	V	6.4	13.0	54.0

Date: 6/9/2014 - Time: 4:13:23

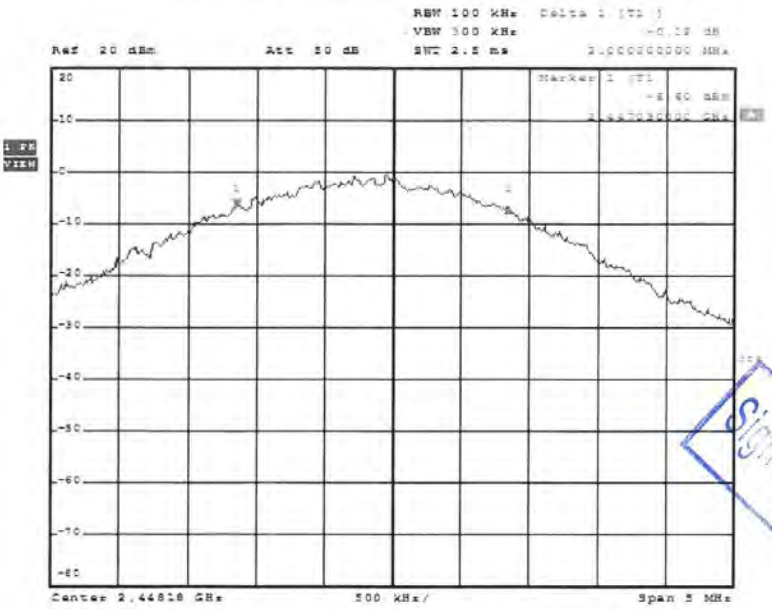
Sign-off Test Data Checked

Tested by:

Reviewed by: 2014-06-10 Checked



20140609 DST-24T 6dB bandwidth High frequency

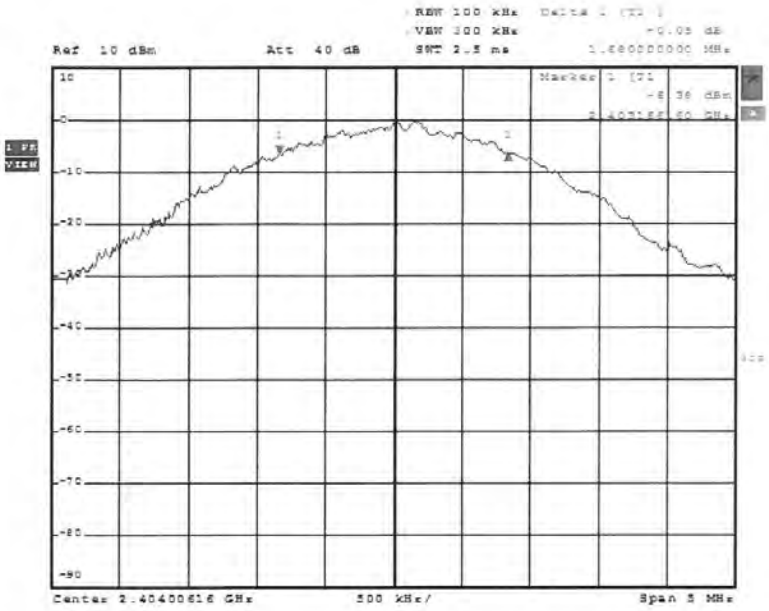


20140609 DST-24T 6dB bandwidth Middle frequency

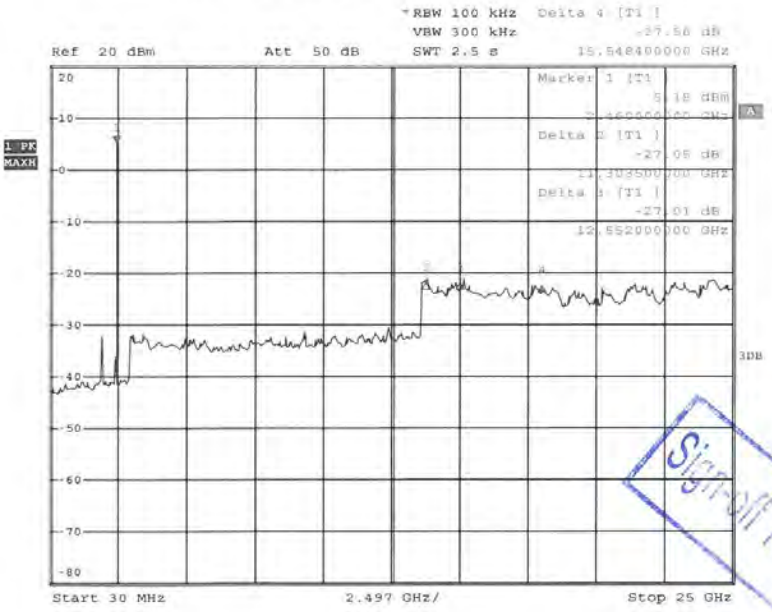
Sign-off Test Data

YJX 2014-09-11 Checked

HCH 2014.09.12 Checked



20140609 DST-24T 6dB bandwidth Low frequency

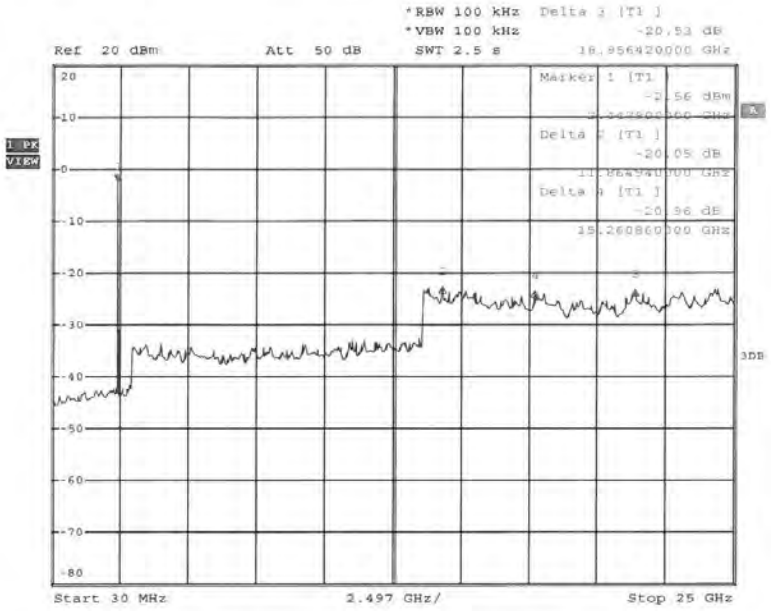


Signoff Test Data

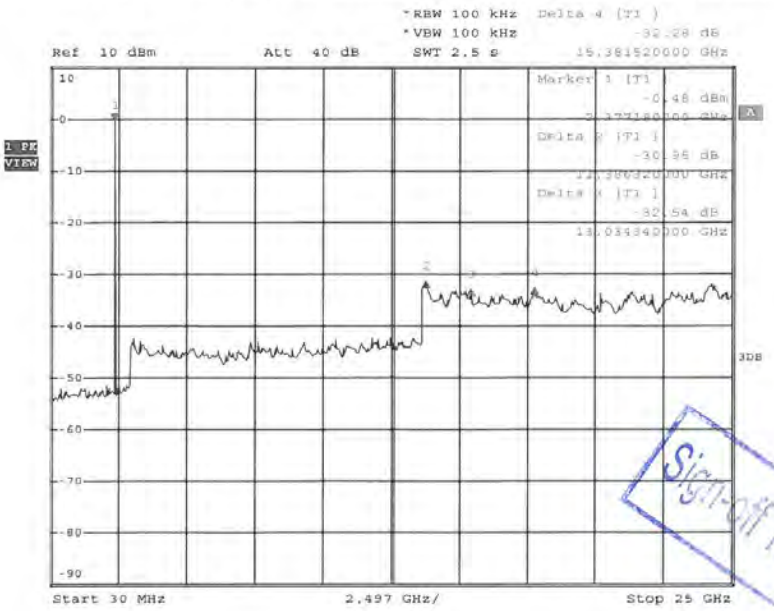
20140609 DST-24T Conducted spurious emission High frequency

YJX 2014-6-11 Checked

Checked



20140609 DST-24T Conducted spurious emission Middle frequency

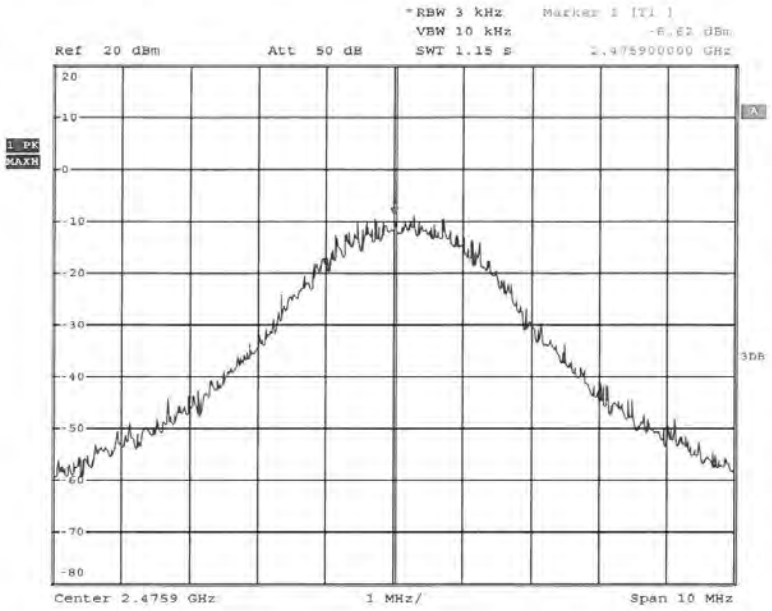


Sign-off Test Data

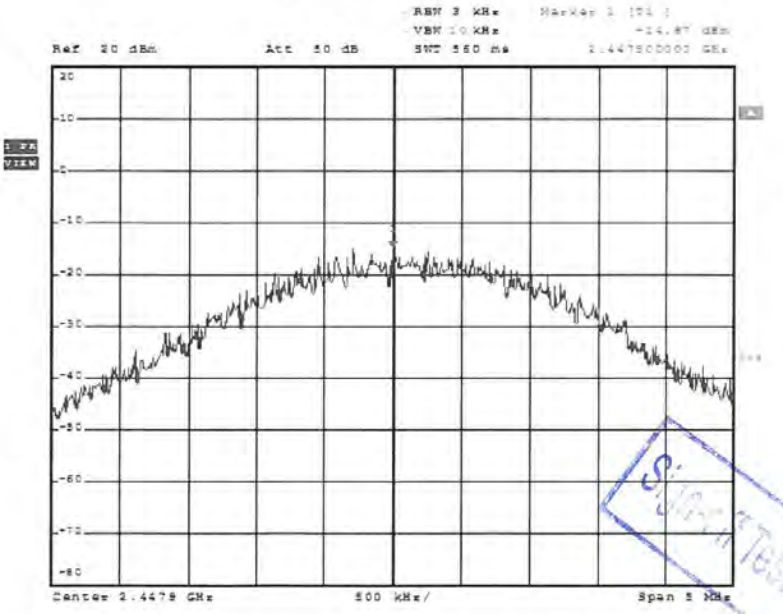
20140609 DST-24T Conducted spurious emission Low frequency

YJX 2014-08-11 Checked

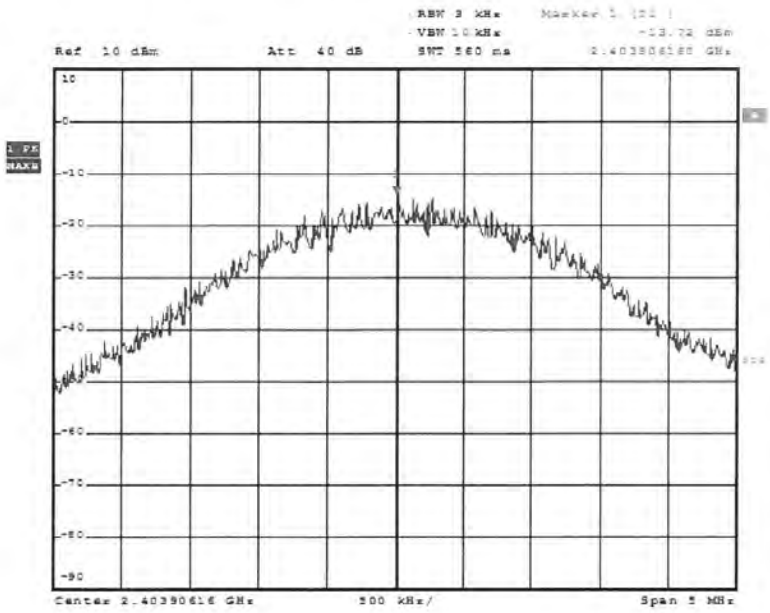
HCH Checked



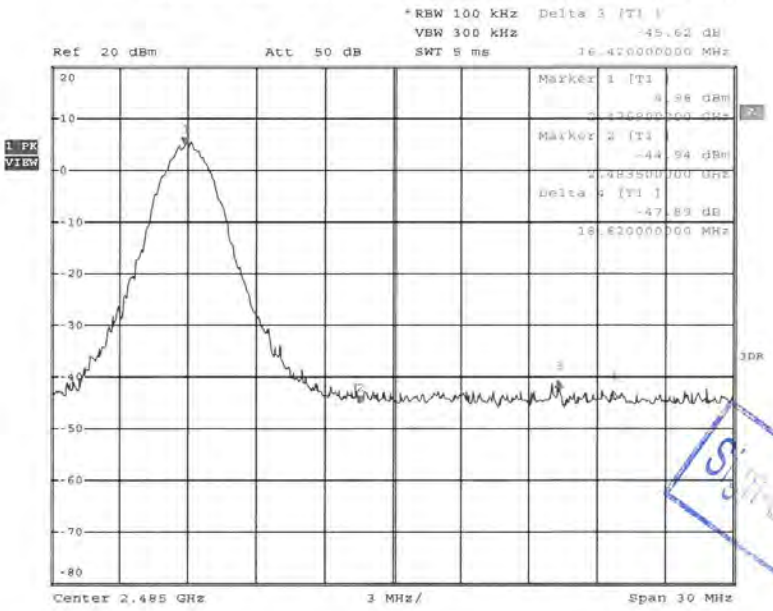
20140609 DST-24T Power spectral density High frequency



20140609 DST-24T Power spectral density Middle frequency



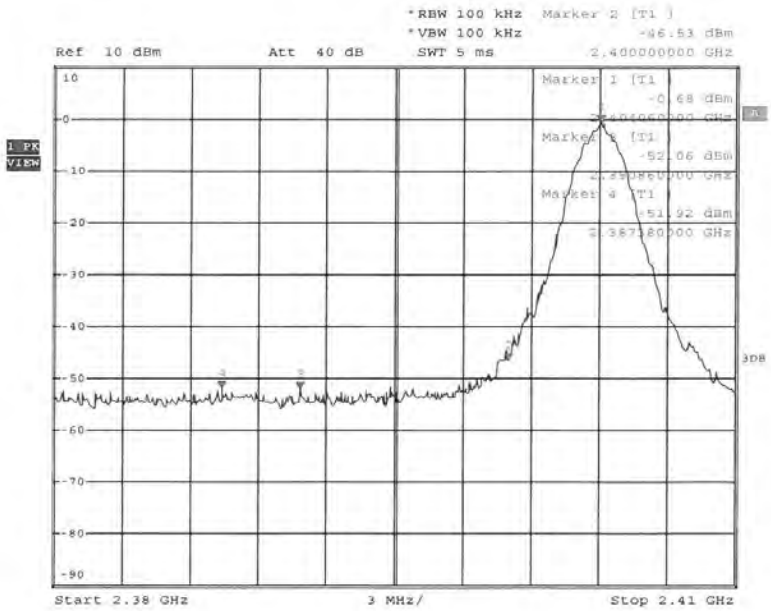
20140609 DST-24T Power spectral density Low frequency



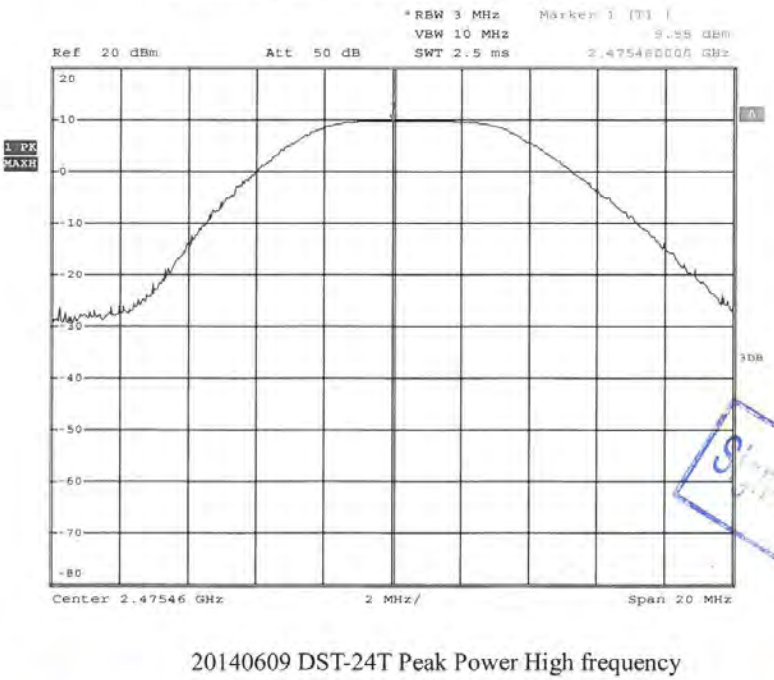
20140609 DST-24T Bandage emission High frequency

YJX 2014-08-11 Checked

HCH Checked



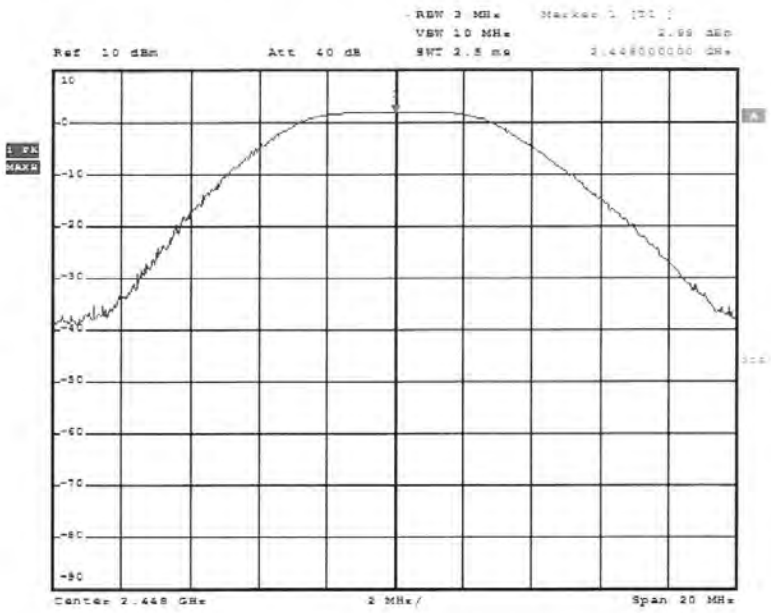
20140609 DST-24T Bandage emission Low frequency



20140609 DST-24T Peak Power High frequency

YJX Checked

HCH Checked



20140609 DST-24T Peak Power Mid frequency

20140609 DST-24T Peak Power Low frequency

YJX
2014-08-11
Checked