

Prüfbericht - Nr.:

17010516 001

Test Report No.

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Mode A.3 - Vertical (30MHz - 1GHz)

EMC32 Report

Namtai Pecei VeV SLEH-00089(Reveiver)

Test Information

Manufacturer Name: Model Number: Operating Conditions: Comment:

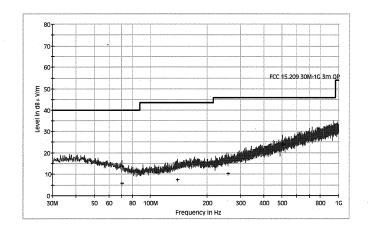
Red channel_TX_High channel Vertical

Subrange 1

Frequency Range:
Receiver:
Transducer:

30MHz - 1GHz TUV ESCI 3

TUV SAC UVLB 9168 / TUV ESCI3 -TUV SAC UVLB 9168



Limit and Margin

Frequency (MHz)	QuasiPeak (dB µ V/m)	Corr. (dB)	Margin (dB)	Limit (dB µ V/m)	Polarity
70.250000	5.9	10.2	34.1	40.0	V
139.600000	7.6	11.4	35.9	43.5	V
258.700000	10.3	14.7	35.7	46.0	V
501.100000	23.8	21.7	22.2	46.0	V

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Mode A.3 - Horizontal (1GHz - 18GHz)

EMC32 Report

Red channel_TX_High channel Horizontal

Namtai Reverver)

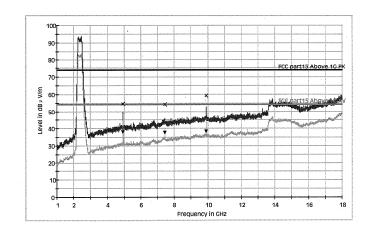
Test Information

Manufacturer Name: Model Number: Operating Conditions: Comment:

s:

Subrange 1
Frequency Range:
Receiver:
Transducer:

1GHz - 18GHz TUV FSP 30 TUV SAC HF906 / TUV FSP 30-TUV SAC HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dB μ V/m)	Margin (dB)	Limit (dB µ V/m)	Polarity	Corr. (dB)
4953.000000	54.4	19.6	74.0	Н	-5.5
7429.000000	54.1	19.9	74.0	Н	-0.3
9908.000000	59.2	14.8	74.0	Н	4.1

Limit and Margin AV

	Frequency (MHz)	Average (dB µ V/m)	Margin (dB)	Limit (dB µ V/m)	Polarity	Corr. (dB)
Г	4953.000000	37.8	16.2	54.0	Н	-5.5
Γ	7429.000000	37.6	16.4	54.0	Н	-0.3
Γ	9908.000000	38.2	15.8	54.0	Н	4.1



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Mode A.3 - Vertical (1GHz - 18GHz)

EMC32 Report

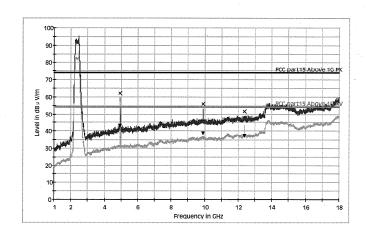
Test Information

Manufacturer Name: Model Number:
Operating Conditions:
Comment:

Receiver Namtai SLEH-00089(Reveiver) Red channel_TX_High channel Vertical

Subrange 1
Frequency Range:
Receiver:
Transducer:

1GHz - 18GHz TUV FSP 30 TUV SAC HF906 / TUV FSP 30-TUV SAC HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dB µ V/m)	Margin (dB)	Limit (dB µ V/m)	Polarity	Corr. (dB)
4953.000000	62.2	11.8	74.0	V	-5.5
9905.000000	56.0	18.0	74.0	V	4.1
12382.000000	51.5	22.5	74.0	V	3.8

Limit and Margin AV

Frequency (MHz)	Average (dB µ V/m)	Margin (dB)	Limit (dB µ V/m)	Polarity	Corr. (dB)
4953.000000	42.8	11.2	54.0	V	-5.5
9905.000000	38.6	15.4	54.0	V	4.1
12382.000000	37.3	16.7	54.0	V	3.8



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Produkte

Products

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Mode A.3 – Horizontal (18GHz – 26GHz)

EMC32 Report

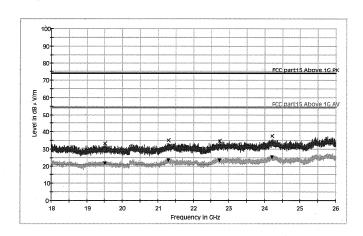
Test Information

Manufacturer Name: Model Number: Operating Conditions: Comment:

Receiver Namtai SLEH-00089(Revelver)
Red channel_TX_High channel
Horizontal

Subrange 1 Frequency Range: Receiver: Transducer:

18GHz - 26GHz TUV FSP 30 TUV SAC 3160-09 / TUV FSP 30-TUV SAC 3160-09



Limit and Margin PK

Frequency	MaxPeak	Corr.	Margin	Limit	Polarity
(MHz)	(dB µ V/m)	(dB)	(dB)	(dB µ V/m)	, orang
19507.000000	33.2	-13.8	40.8	74.0	. Н
21295.000000	35.0	-13.1	39.0	74.0	Н
22737.000000	34.6	12.7	39.4	74.0	Н
24219.000000	37.5	-12.2	36.5	74.0	Н

Limit and Margin AV

Frequency (MHz)	Average (dB µ V/m)	Corr. (dB)	Margin (dB)	Limit (dB µ V/m)	Polarity
19507.000000	21.8	-13.8	32.2	54.0	H
21295.000000	23.3	-13.1	30.7	54.0	F
22737.000000	23.4	-12.7	30.6	54.0	H
24219.000000	25.1	-12.2	28.9	54.0	i i

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Mode A.3 - Vertical (18GHz - 26GHz)

EMC32 Report

Test Information

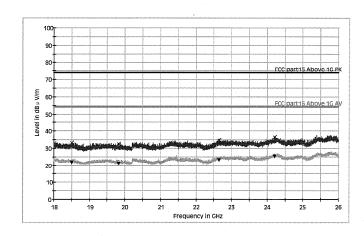
Manufacturer Name: Model Number: Operating Conditions: Comment: Namtai Receiver
SLEH-00089(Reveiver)
Red channel_TX_High channel

Subrange 1

Frequency Range: Receiver: Transducer:

18GHz - 26GHz TUV FSP 30

TUV SAC 3160-09 / TUV FSP 30-TUV SAC 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dB µ V/m)	Corr. (dB)	Margin (dB)	Limit (dB µ V/m)	Polarity
18509.000000	33.0	-14.4	41.0	74.0	V
19829.000000	32.6	-14.0	41.4	74.0	V
22657.000000	34.6	-12.7	39.4	74.0	V
24212.000000	36.6	-12.1	37.4	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dB µ V/m)	Corr. (dB)	Margin (dB)	Limit (dB µ V/m)	Polarity
18509.000000	21.7	-14.4	32.3	54.0	\
19829.000000	21.1	-14.0	32.9	54.0	. ,
22657.000000	23.1	-12.7	30.9	54.0	,
24212.000000	25.3	-12.1	28.7	54.0	,

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Mode B - Horizontal (30MHz - 1GHz)

EMC32 Report

Test Information

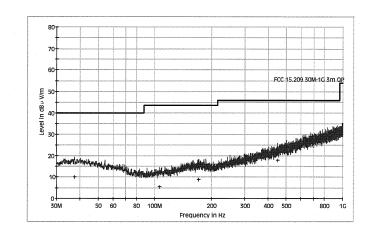
Manufacturer Name: Model Number:
Operating Conditions:
Comment:

Receiver Namtai Receiver SLEH-00089(Revelver) Red channel_RX Horizontal

2008 9. 0.4 Checked

Subrange 1 Frequency Range: Receiver: Transducer:

30MHz - 1GHz TUV ESCI 3 TUV SAC UVLB 9168 / TUV ESCI3 -TUV SAC UVLB 9168



Limit and Margin

Frequency (MHz)	QuasiPeak (dB µ V/m)	Corr. (dB)	Margin (dB)	Limit (dB µ V/m)	Polarity
37.400000	10.0	14.3	30.0	40.0	Н
106.150000	5.6	9.7	37.9	43.5	Н
170.050000	8.9	13.2	34.6	43.5	Н
448.050000	17.9	20.6	28.1	46.0	Н





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Mode B - Vertical (30MHz - 1GHz)

EMC32 Report

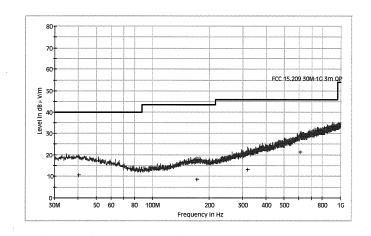
Test Information

Manufacturer Name: Model Number: Operating Conditions: Comment: Namtai Receiver
SLEH-00089(Reveiver)
Red channel_RX
Vertical

Subrange 1 Frequency Range: Receiver: Transducer:

30MHz - 1GHz TUV ESCI 3

TUV SAC UVLB 9168 / TUV ESCI3 -TUV SAC UVLB 9168



Limit and Margin

Frequency (MHz)	QuasiPeak (dB µ V/m)	Corr. (dB)	Margin (dB)	Limit (dB V/m)	Polarity
40.250000	10.6	14.4	29.4	40.0	V
172.350000	8.8	13.3	34.7	43.5	V
320.500000	13.2	17.2	32.8	46.0	٧
609.200000	21.4	24.3	24.6	46.0	V



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Mode B – Horizontal (1GHz – 18GHz)

EMC32 Report

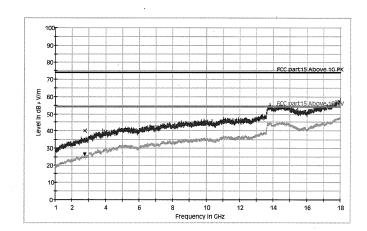
Test Information

Manufacturer Name: Model Number: Operating Conditions: Comment:

Namtai Peresis SLEH-00089(Reveiver) Red channel_RX Receiver Horizontal

Subrange 1 Frequency Range: Receiver: Transducer:

1GHz - 18GHz TUV FSP 30 TUV SAC HF906 / TUV FSP 30-TUV SAC HF906



Limit and Margin PK

	9				
Frequency	MaxPeak	Margin	Limit	Polarity	Corr.
				, clairly	
(MHz)	(dB μ V/m)	(dB)	(dB μ V/m)		(dB)
0775 500000	40.0	040	74.0		
2775.500000	40.0	34.0	74.0	I H-	-11.5

Limit and Margin AV

Frequency (MHz)	Average (dB μ V/m)	Margin (dB)	Limit (dB µ V/m)	Polarity	Corr. (dB)
2775.500000	26.4	27.6	54.0	Н	-11.5



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Mode B - Vertical (1GHz - 18GHz)

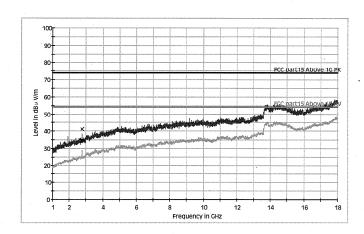
EMC32 Report

Test Information

Manufacturer Name: Model Number: Operating Conditions: Comment: Namtai Receiver SLEH-00089(Reveiver) Red channel_RX Vertical

Subrange 1 Frequency Range: Receiver: Transducer:

1GHz - 18GHz TUV FSP 30 TUV SAC HF906 / TUV FSP 30-TUV SAC HF906



Limit and Margin PK

	Frequency	MaxPeak	Margin	Limit	Polarity	Corr.
	(MHz)	(dB µ V/m)	(dB)	(dB μ V/m)		(dB)
-	2773.500000	41.2	32.8	74.0	V	-11.5

Limit and Margin AV

Frequency Averag	je Margin	Limit	Polarity	Corr.
(MHz) (dB μ V/	m) (dB)	(dB µ V/m)		(dB)
2773.500000	34.4 19.6	54.0	V	-11.5





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Mode B - Horizontal (18GHz - 26GHz)

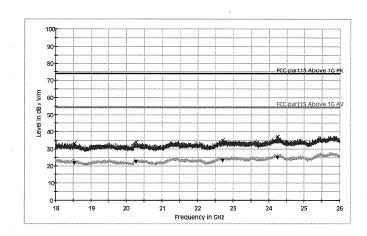
EMC32 Report

Test Information

Manufacturer Name: Operating Conditions: Comment: Namtai Revenuer SLEH-00089(Reveiver) Red channel_RX Horizontal

Subrange 1 Frequency Range: Receiver: Transducer:

18GHz - 26GHz TUV FSP 30 TUV SAC 3160-09 / TUV FSP 30-TUV SAC 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dB µ V/m)	Corr. (dB)	Margin (dB)	Limit (dB µ V/m)	Polarity
18546.000000	33.1	-14.4	40.9	74.0	Н
20275.000000	34.0	-13.9	40.0	74.0	Н
22706.000000	35.0	-12.6	39.0	74.0	Н
24245.000000	37.1	-12.3	36.9	74.0	Н

Limit and Margin AV

Frequency (MHz)	Average (dB µ V/m)	Corr. (dB)	Margin (dB)	Limit (dB µ V/m)	Polarity
18546.000000	21.8	-14.4	32.2	54.0	Н
20275.000000	22.2	-13.9	31.8	54.0	Н
22706.000000	23.3	-12.6	30.7	54.0	Н
24245.000000	24.9	-12.3	29.1	54.0	Н

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Mode B - Vertical (18GHz - 26GHz)

EMC32 Report

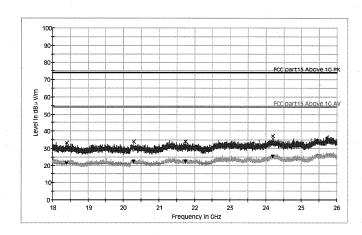
Test Information

Manufacturer Name: Model Number: Operating Conditions: Comment:

Receiver Namtai SLEH-00089(Reveiver) Red channel_RX Vertical

Subrange 1 Frequency Range: Receiver: Transducer:

18GHz - 26GHz TUV FSP 30 TUV SAC 3160-09 / TUV FSP 30-TUV SAC 3160-09



Limit and Margin PK

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Frequency (MHz)	MaxPeak (dB µ V/m)	Corr. (dB)	Margin (dB)	Limit (dB µ V/m)	Polarity				
18400.000000	33.1	-14.4	40.9	74.0	V				
20287.000000	33.9	-13.9	40.1	74.0	V				
21748.000000	33.8	-13.3	40.2	74.0	V				
24199.000000	37.3	-12.0	36.7	74.0	V				

Limit and Margin AV

Frequency (MHz)	Average (dB µ V/m)	Corr. (dB)	Margin (dB)	Limit (dB µ V/m)	Polarity
18400.000000	21.4	-14.4	32.6	54.0	V
20287.000000	22.5	-13.9	31.5	54.0	V
21748.000000	22.3	-13.3	31.7	54.0	V
24199.000000	25.1	-12.0	28.9	54.0	V

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5.1.6 Frequency Separation

RESULT: Passed

Date of testing : 2008-11-21

Test standard : FCC part 15.247(a)(1)

RSS-210 A8.1 (b)

Basic standard : ANSI C63.4: 2003

Limit : ≥ 25kHz or 2/3 of 20dB bandwidth, whichever is

greater

Test setup

Test Channel : Low/ Middle/ High

Table 7: Test result of Frequency Separation

Channel	Channel Frequency (MHz)	Measured Channel Separation (MHz)	Limit (kHz)	Result
Low Channel	2405	4	≥ 25kHz or 2/3 of	Pass
Adjacency Channel	2409	7	20dB bandwidth	1 455
Mid Channel	2437	4	≥ 25kHz or 2/3 of	Pass
Adjacency Channel	2441	4	20dB bandwidth	F 455
High Channel	2473	4	≥ 25kHz or 2/3 of	Pass
Adjacency Channel	2477	4	20dB bandwidth	rass



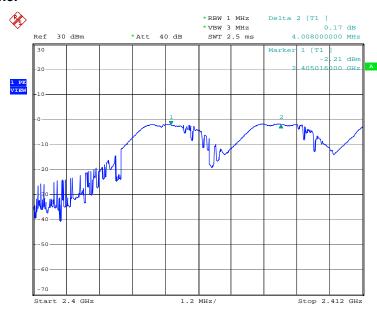
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Test Plot of Frequency Separation

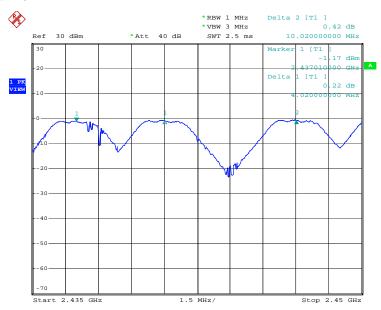
Low Channel

Test Report No.



Date: 21.NOV.2008 13:50:58

Middle Channel



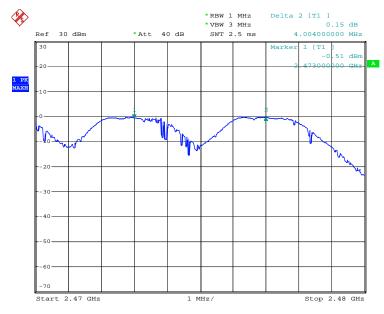
Date: 21.NOV.2008 13:55:43



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High Channel



Date: 21.NOV.2008 13:31:13



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5.1.7 Number of hopping frequency

RESULT: Passed

Date of testing 2008-11-21

Test standard FCC part 15.247(a)(1)(iii)

RSS-210 A8.1 (d)

Basic standard ANSI C63.4: 2003

Limits ≥ 15 non-overlapping channels

Kind of test site Shield room

Test setup

Test Channel Low/ Middle/ High

Operation Mode Ambient temperature **20**℃ Relative humidity 48% Atmospheric pressure 101 kPa

Table 8: Test result of Number of hopping frequency

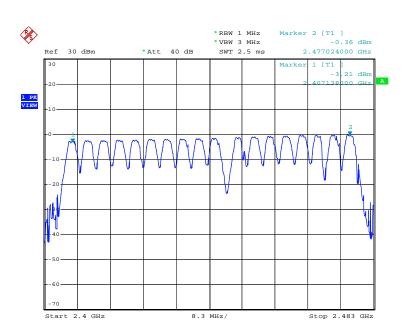
Frequency Range	Measured Quantity of Hopping Channel	Limit	Result
<u>2405</u> to <u>2477</u> MHz	18	≥15	Pass

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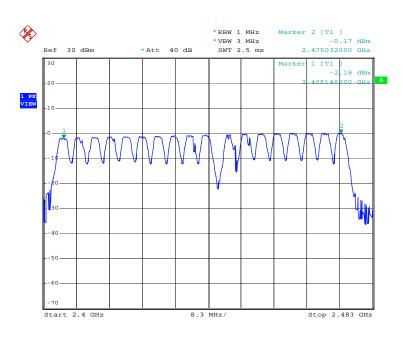
Test Plot of Number of hopping frequencies

Blue Unit



Date: 21.NOV.2008 13:27:03

Red Unit



Date: 21.NOV.2008 13:44:09



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Test Report No.

5.1.8 Time of Occupancy

RESULT: Passed

2008-11-21 Date of testing

Test standard FCC part 15.247(a)(1)(iii)

RSS-210 A8.1 (d)

Basic standard ANSI C63.4: 2003

0.4s Limits

Kind of test site Shield room

Test setup

Test Channel Low/ Middle/ High

Operation Mode Ambient temperature **20**℃ Relative humidity 48% Atmospheric pressure 101 kPa

Table 9: Test result of Time of Occupancy

Channel	Pulse width (μs)	Measured Dwell time (s)	Limit (s)	Result
Low Channel	164	0.0039	0.4	Pass
Mid Channel	164	0.0039	0.4	Pass
High Channel	164	0.0039	0.4	Pass

Note:

Dwell time = Pulse width x (Hopping rate / Number of channels) x Period

Period = 0.4 (seconds/ channel) x 18 (channel) = 7.2 seconds

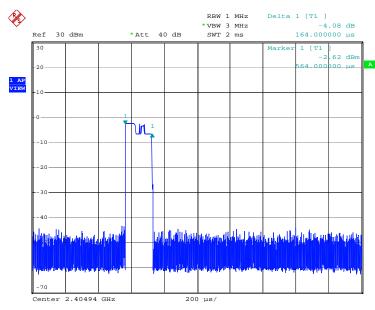
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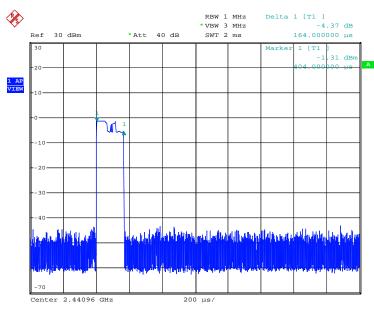
Test Plot of Time of Occupancy

Low Channel



Date: 21.NOV.2008 12:41:34

Middle Channel



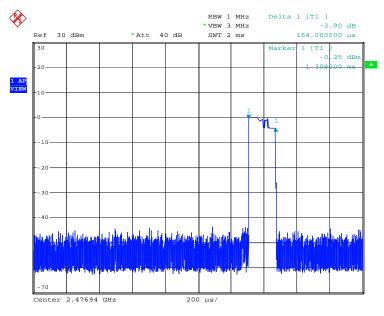
Date: 21.NOV.2008 13:05:05



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High Channel



Date: 21.NOV.2008 13:15:29



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Test Report No.

5.1.9 Peak Power Density

RESULT: Passed

Date of testing 2008-11-21

Test standard FCC part 15.247(e) Basic standard ANSI C63.4: 2003

Limits 8.0 dBm (in any 3kHz band)

Kind of test site Shield room

Test setup

Test Channel Low/ Middle/ High

Operation Mode Ambient temperature **20**℃ Relative humidity 48% Atmospheric pressure : 101 kPa

Table 10: Test result of Peak Power Density

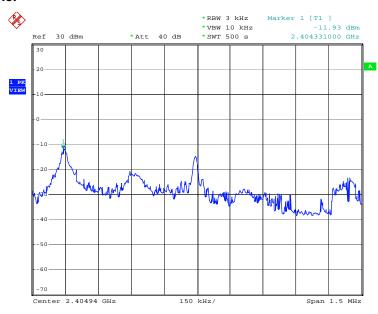
Channel	Channel Frequency (MHz)	Reading Power (dBm)	Limit (dBm)	Result
Low Channel	2405	-11.93	8	Pass
Mid Channel	2441	-10.72	8	Pass
High Channel	2477	-9.82	8	Pass

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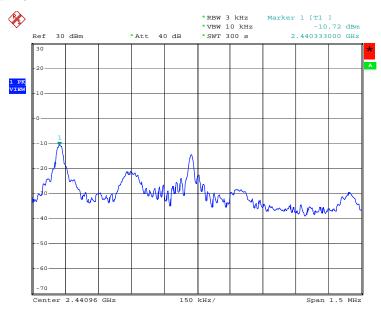
Test Plot of Peak Power Density

Low Channel



Date: 21.NOV.2008 12:59:23

Middle Channel



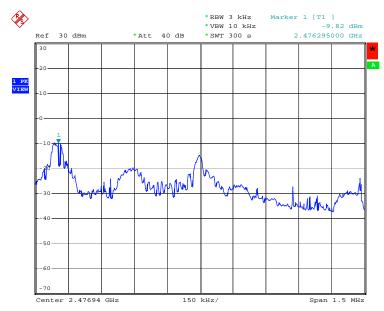
Date: 21.NOV.2008 13:11:09



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High Channel



Date: 21.NOV.2008 11:47:32



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Test Report No.

5.1.10 Radiated emissions

RESULT: Passed

Date of testing 2008-09-24

Test standard FCC Part 15.209

> FCC Part 15.109 RSS-210 Clause 2.6

ANSI C63.4: 2003 Basic standard Frequency range 30 - 1000MHz FCC Part 15.209(a) Limits

> FCC Part 15.109(a) RSS-210 Table 2

Kind of test site 3m Semi-Anechoic Chamber

Test Setup

Input Voltage DC 5V (via PS3 USB port)

Operation Mode A+B

Earthing Not Connected

Ambient temperature : **22**℃ Atmospheric pressure : Relative humidity 50% 100 kPa

For details refer to following test curves.



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Test Plot of Radiated emissions, Horizontal

EMC32 Report

Test Information

Manufacturer Name: Model Number: Operating Conditions: Comment: Namtai SLEH-00089 D. Communicating with PS3 Horizontal

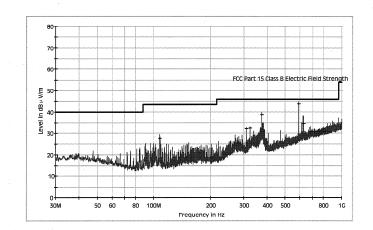


Subrange 1

Frequency Range:
Receiver:
Transducer:

30MHz - 1GHz TUV ESCI 3

TUV SAC UVLB 9168 / TUV ESCI3 -TUV SAC UVLB 9168



Limit and Margin

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Frequency (MHz)	QuasiPeak (dB µ V/m)	Corr. (dB)	Margin (dB)	Limit (dB µ V/m)	Polarity			
107.950000	27.8	9.7	15.7	43.5	Н			
310.950000	32.3	16.7	13.7	46.0	Н			
324.000000	32.5	17.2	13.5	46.0	Н			
375.000000	38.7	18.9	7.3	46.0	H			
589.850000	43.9	23.9	2.1	46.0	Н			
624.950000	34.7	24.5	11.3	46.0	Н			



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Test Plot of Radiated emissions, Vertical

EMC32 Report

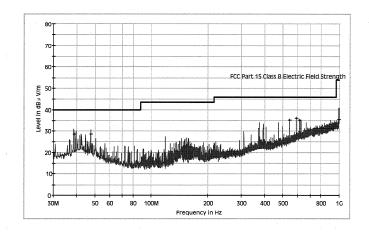
Test Information

Manufacturer Name: Model Number: Operating Conditions: Comment: Namtai SLEH-00089 D. Communicating with PS3

Subrange 1 Frequency Range: Receiver:

30MHz - 1GHz TUV ESCI 3

TUV SAC UVLB 9168 / TUV ESCI3 -TUV SAC UVLB 9168



Limit and Margin ECC

.iiiit aliu wargiii FCC						
Frequency (MHz)	QuasiPeak (dB µ V/m)	Corr. (dB)	Margin (dB)	Limit (dB µ V/m)	Polarity	
38.650000	28.5	14.4	11.5	40.0	V	
47.550000	28.7	13.3	11.3	40.0	V	
541.900000	35.2	22.4	10.8	46.0	V	
589.850000	36.0	23.9	10.0	46.0	V	
609.650000	35.2	24.3	10.8	46.0	V- V	
996.050000	35.6	29.7	18.4	54.0	V	



2008-09-04

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Test Report No.

5.1.11 Restricted bands

RESULT: Passed

Date of testing 2008-09-24

Test standard FCC Part 15.205

RSS-210 Clause 2.2

Basic standard ANSI C63.4: 2003 Limits FCC Part 15.205

RSS-210 Table 2 and 3

Kind of test site 3m Semi-Anechoic Chamber

Test Setup

Test Channel Low/ High

Input Voltage DC 5V (via PS3 USB port)

Operation Mode

Not Connected Earthing

Ambient temperature **22**℃ Relative humidity 50% Relative humidity : Atmospheric pressure : 100 kPa

For details refer to following test curves.



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Test Plot of Radiated emissions in restricted bands, blue unit

Mode A.1, Horizontal

EMC32 Report

Test Information

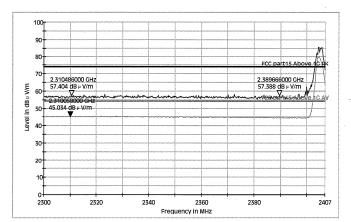
Manufacturer Name: Model Number: Operating Conditions: Comment:

Namtai Receiver) Receiver Blue channel_TX_Low channel Horizontal



Subrange 1 Frequency Range: Receiver: Transducer:

2.3GHz – 2.407GHz TUV FSP 30 TUV SAC HF906 / TUV FSP 30-TUV SAC HF906







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Mode A.1, Vertical

Test Report No.

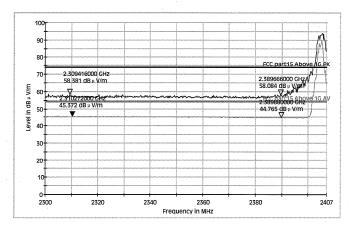
EMC32 Report

Test Information

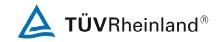
Manufacturer Name: Model Number: Operating Conditions: Comment: Namtai Receiver
SLEH-00089(Reveiver)
Blue channel_TX_Low channel

Subrange 1 Frequency Range: Receiver: Transducer:

2.3GHz – 2.407GHz TUV FSP 30 TUV SAC HF906 / TUV FSP 30-TUV SAC HF906







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Test Report No.

Mode A.3, Horizontal

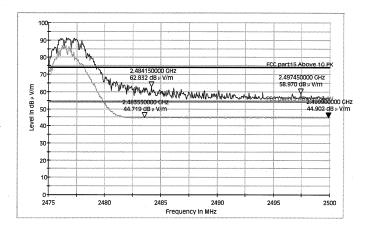
EMC32 Report

Test Information

Manufacturer Name: Model Number: Operating Conditions: Comment: Namtai Pe e Ver SLEH-00089(Reveiver) Blue channel_TX_High channel Horizontal

Subrange 1 Frequency Range: Receiver: Transducer:

2.475GHz - 2.5GHz TUV FSP 30 TUV SAC HF906 / TUV FSP 30-TUV SAC HF906







Products

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Test Report No.

Mode A.3, Vertical

EMC32 Report

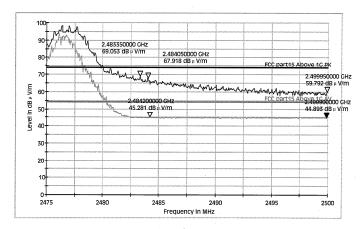
Test Information

Manufacturer Name: Model Number: Operating Conditions: Comment: Namtai Poce VeV
SLEH-00089(Reveiver)
Blue channel_TX_High channel
Vertical

Subrange 1
Frequency Range:
Receiver:
Transducer:

2.475GHz - 2.5GHz TUV FSP 30 TUV SAC HF906 / TUV FSP 30-TUV SAC HF906

RBW = 1 MHz VBW = 3 MHz SWT = 100 ms





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Test Plot of Radiated emissions in restricted bands, red unit

Mode A.1, Horizontal

EMC32 Report

Test Information

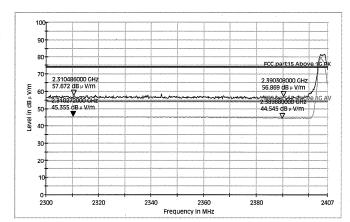
Manufacturer Name: Model Number: Operating Conditions: Comment:

Receiver SLEH-00089(Reveiver) Red channel_TX_Low channel Horizontal



Subrange 1 Frequency Range: Transducer:

2.3GHz – 2.407GHz TUV FSP 30 TUV SAC HF906 / TUV FSP 30-TUV SAC HF906







Prüfbericht - Nr.:

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Mode A.1, Vertical

Test Report No.

EMC32 Report

Test Information

Manufacturer Name: Model Number: Operating Conditions: Comment:

Receiver SLEH-00089(Revelver)
Red channel_TX_Low channel

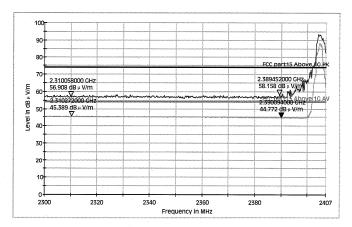
Subrange 1 Frequency Range: Receiver: Transducer:

2.3GHz – 2.407GHz TUV FSP 30

TUV SAC HF906 / TUV FSP 30-TUV SAC HF906

2008 9.04

RBW = 1 MHz VBW = 3 MHz SWT = 100 ms





2008-09-03

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Test Report No.

Mode A.3, Horizontal

EMC32 Report

Test Information

Manufacturer Name: Model Number: Operating Conditions: Comment:

Namtai Receiver
SLEH-00089(Reveiver)
Red channel_TX_High channel

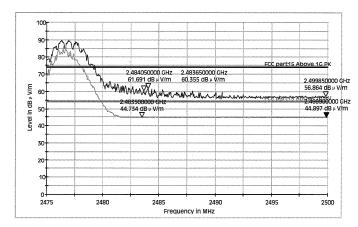
Subrange 1 Frequency Range: Receiver:

2.475GHz - 2.5GHz TUV FSP 30 TUV SAC HF906 / TUV FSP 30-TUV SAC HF906

RBW = 1 MHz

Transducer:

VBW = 3 MHz SWT = 100 ms







Products

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Test Report No.

Mode A.3, Vertical

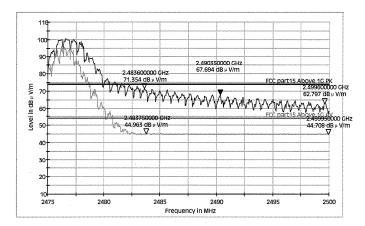
EMC32 Report

Test Information

Manufacturer Name: Model Number: Operating Conditions: Comment: Namtai Receiver
SLEH-00089(Reveiver)
Red channel_TX_High channel
Vertical

Subrange 1
Frequency Range:
Receiver:
Transducer:

2.475GHz - 2.5GHz TUV FSP 30 TUV SAC HF906 / TUV FSP 30-TUV SAC HF906







Prüfbericht - Nr.: 17010516 001

Test Report No.

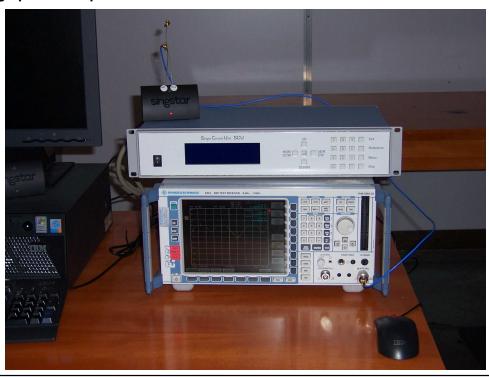
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6. Photographs of the Test Set-Up

Photograph 1: Set-up for Radiated Emissions



Photograph 2: Set-up for Transmitter test



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Photograph 3: Set-up for Spurious Emissions (30MHz-1GHz)



Photograph 4: Set-up for Spurious Emissions (1GHz-18GHz)



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Photograph 5: Set-up for Spurious Emissions (18GHz-26GHz)



Photograph 6: Set-up for Conducted Emissions





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