Produkte

Products



Prüfbericht-Nr.: Auftrags-Nr.: Seite 1 von 24 16070926 001 174039650 Test Report No.: Order No.: Page 1 of 24 Kunden-Referenz-Nr.: Auftragsdatum: 621884 12 Oct, 2015 Client Reference No.: Order date .: Auftraggeber: SCALAR CORPORATION Client: Shinjuku San-Ei Bldg., 1-22-2, Nishi-Shinjuku, Shinjuku-ku, TOKYO, JAPAN Prüfgegenstand: FCC ID: YIJVT200RGB Wireless Video Transmitter Test item:

FCC ID:

Bezeichnung / Typ-Nr.: VT-200RGB Identification / Type No.:

Auftrags-Inhalt: TUV Rheinland - EMC service Order content:

FCC Part 15: 2015-10 Prüfgrundlage:

Subpart C section 15.207, 15.209 and 15.247 Test specification:

ANSI C63.10: 2013

Wareneingangsdatum: 12 Oct, 2015 Date of receipt:

Prüfmuster-Nr.: 174039650-001 Test sample No.:

Prüfzeitraum: Refer to test report Testing period:

Ort der Prüfung: Refer to section 2.1 Place of testing:

Prüflaboratorium: TÜV Rheinland Testing laboratory: (Guangdong) Ltd.

Prüfergebnis*: **Pass** Test result*:

geprüft von / tested by:

kontrolliert von / reviewed by:

Storm Shu / Assistant Project Manager

Ctom Shu

25 Jan, 2016 Max Y. C. Yao/ Department Manager 22 Jan, 2016

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

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 2 = gut3 = befriedigend 4 = ausreichend 5 = mangelhalt P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good3 = satisfactory 4 = sufficient 5 = poorP(ass) = passed a.m. test specifications(s) F(ail) = failed a.m. test specifications(s) N/A = not applicable N/T = not tested

Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines

This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.



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Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Passed

5.1.2 PEAK OUTPUT POWER

RESULT: Passed

5.1.3 CONDUCTED POWER SPECTRAL DENSITY

RESULT: Passed

5.1.4 6dB Bandwidth

RESULT: Passed

5.1.5 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHZ BANDWIDTH

RESULT: Passed

5.1.6 Spurious Emission

RESULT: Passed

5.1.7 CONDUCTED EMISSIONS

RESULT: Passed

6.1.1 ELECTROMAGNETIC FIELDS

RESULT: Passed



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6.1	RADIO FREQUENCY EXPOSURE COMPLIANCE
6.1.	1 Electromagnetic Fields



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1 General Remarks

1.1 Complementary Materials

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

Appendix 1: Test result

2 Test Sites

2.1 Test Facilities

GUANGZHOU GRG METEROLOGY & TEST TECHNOLOGY CO.,LTD

163 Ping Yun Rd, West of HuangPu Ave, Guangzhou, Guangdong, P.R.China FCC Registration No. 688188

The tests at these test sites have been conducted under the supervision of a TÜV Rheinland engineer.



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2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due			
Maximum peak output power/ Bandwidth /100kHz bandwidth of frequency band edge/ Spurious Emissions at Antenna Port/ Restricted Bands/ Power Spectral Density							
Spectrum analyzer	R&S	FSV30	103246	2016-03-09			
Conducted Emission	ons						
EMI Receiver	R&S	ESCI	100529	2016-03-24			
L.I.S.N	SCHWARZBECK	NSLK 8127	8127450	2016-07-20			
Radiated Spurious Emissions							
Receiver	R&S	ESU26	100526	2016-03-08			
Loop antenna	R&S	HFH2-Z2	881058/58	2016-04-17			
Biconical Log- periodic Antenna	ETS.LINDGREN	3142C	00075971	2016-04-17			
Horn antenna	SCHWARZBECK	BBHA9120D	D752	2017-03-03			
Horn antenna	SCHWARZBECK	BBHA9170	411	2016-12-21			
Per-Amplifier	Amideon	9742	332	2016-09-14			
Per-Amplifier	Compliance Directions systems Inc.	PAP-0126	25002	2016-01-03			



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2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basic using in house standards or comparisons.

2.5 Measurement Uncertainty

Parameter	Uncertainty
Uncertainty for Conduction emission test	2.40dB
Uncertainty for spurious emissions test	4.40 dB
(30MHz-1GHz)	
Uncertainty for spurious emissions test	4.40 dB
(1GHz to 18GHz)	
Uncertainty for radio frequency	6.4×10-9
Uncertainty for conducted RF Power	0.50dB
Uncertainty for radio frequency	± 0.2 °C

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

GUANGZHOU GRG METEROLOGY & TEST TECHNOLOGY CO.,LTD 163 Ping Yun Rd, West of HuangPu Ave, Guangzhou, Guangdong, P.R.China FCC Registration No. 688188



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3 General Product Information

3.1 Product Function and Intended Use

The tested sample is a "Video Transmitter" with model number as shown in the cover page of test report for new approval.

The test sample has RGB connector at the front part of the mainbody and it can transmit video information when it's connected to PC. The AC-DC Adaptor, F5V-1C-1U, was supplied by test lab for testing only and is not sold together with the EUT.

Port Included:

Micro USB Port (connect to the external power only), LAN Connecter (It is for maintenance)

For more details refer to the Technical Documentation or User manual.

3.2 Ratings and System Details

Table 2: Rating of EUT

Kind of Equipment	Wireless Video Transmitter
Type Designation	VT-200RGB
FCC ID	YIJVT200RGB



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Table 3: Technical Specification of 2.4GHz WIFI

Technical Specification	Value
Operating Frequency band	2412 – 2462 MHz
WIFI Version	802.11n(HT20)
Channel separation	5MHz
Extreme Temperature Range	0°C to +35°C
Operation Voltage	DC5V
Modulation	64QAM,16QAM,QPSK,BPSK,DBPSK,DQPSK
Antenna Type	Internal Antenna, Non-User Replaceable
Antenna Gain	-1.55 dBi
RF Output Power	0.11967W (20.78 dBm)

Table 4: RF channel and frequency of Wi-Fi

RF Channel	Frequency (MHz)
1	2412.00
2	2417.00
3	2422.00
4	2427.00
5	2432.00
6	2437.00
7	2442.00
8	2447.00
9	2452.00
10	2457.00
11	2462.00



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3.3 Independent Operation Modes

The basic operation modes are:

- A. WIFI on
 - 1. Transmitting on low channel
 - 2. Transmitting on middle channel
 - 3. Transmitting on high channel
- B. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- 1. Block Diagram
- 2. Circuit Diagram
- 3. Operation Description
- 4. PCB Layout
- 5. BOM
- 6. FCC label and location
- 7. User Manual
- 8. Internal Photos
- 9. External Photos
- 10. Application form



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4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level.

The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5.

All testing were performed according to the procedures in ANSI C63.10: 2013.

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.



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5 Test Results

5.1 Test set-up

Diagram of Measurement Configuration for Radiation Test

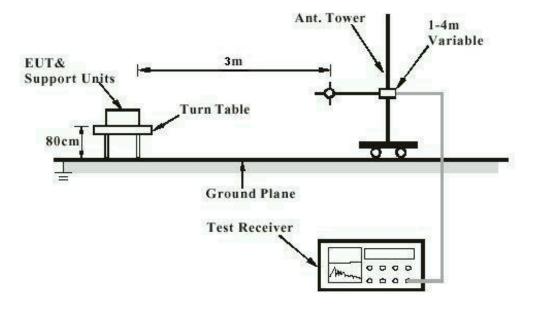
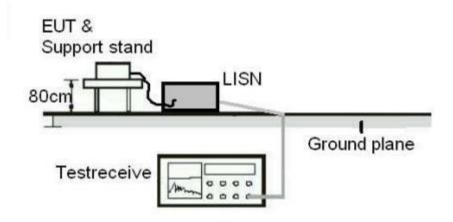


Diagram of Measurement Configuration for Mains Conduction Measurement





Products Prüfbericht - Nr.: 16070926 001 Seite 13 von 24 Page 13 of 24 Test Report No. **Diagram of Measurement Configuration for Conducted Transmitter Measurement** Spectrum EUT Analyzer



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5.2 Transmitter Requirement & Test Suites

5.2.1 Antenna Requirement

RESULT: Passed

Test Specification

Test standard : FCC Part 15.247(b)(4) and Part 15.203

Limits : the use of antennas with directional gains that

do not exceed 6 dBi

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is -1.55 dBi.

Therefore the EUT is considered sufficient to comply with the provision.

For more details, refer to EUT photo.



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5.2.2 Peak Output Power

RESULT: Passed

Test Specification

Test standard : FCC Part 15.247(b)(1) & (b)(3)

Basic standard : ANSI C63.10: 2013

Limits : 1 Watt

Kind of test site : Shielded Room

Test Setup

Date of testing : 10 Nov, 2015

Power supply : DC 5V

Operation mode : A (See 3.3)

Test channel : Low / Middle / High

Ambient temperature : 23.9 °C
Relative Humidity : 57 %
Atmospheric pressure : 101 kPa



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Table 5: Test result of Peak Output Power

Channal	Channel	Peak Out	Limit	
Channel	Frequency (MHz)	(dBm)	(W)	(W)
Low Channel	2412	20.39	0.10940	< 1.0
Middle Channel	2437	20.78	0.11967	< 1.0
High Channel	2462	20.48	0.11169	< 1.0



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5.2.3 Conducted Power Spectral Density

RESULT: Passed

Test Specification

Test standard : FCC Part 15.247(e)
Basic standard : ANSI C63.10: 2013

Limits : 8 dBm/3kHz Kind of test site : Shielded Room

Test Setup

Date of testing : 10 Nov, 2015

Power supply : DC 5V

Operation mode : A (See 3.3)

Test channel : Low / Middle / High

Ambient temperature : 23.9 °C
Relative Humidity : 57 %
Atmospheric pressure : 101 kPa

Table 6: Test result of Power Spectral Density

Channel	Channel Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
Low Channel	2412	-12.37	< 8
Middle Channel	2437	-11.57	< 8
High Channel	2462	-11.95	< 8



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5.2.4 6dB Bandwidth

RESULT: Passed

Test Specification

Test standard : FCC Part 15.247(a)(2)
Basic standard : ANSI C63.10: 2013
Limits : More than 500 KHz
Kind of test site : Shielded Room

Test Setup

Date of testing : 10 Nov, 2015

Power supply : DC 5V

Operation mode : A (See 3.3)

Test channel : Low / Middle / High

Ambient temperature : 23.9 °C
Relative Humidity : 57 %
Atmospheric pressure : 101 kPa

Table 7: Test result of 6dB of 802.11n (20M)

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
Low Channel	2412	17.66	> 500	Pass
Mid Channel	2437	17.66	> 500	Pass
High Channel	2462	17.66	> 500	Pass



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5.2.5 Conducted Spurious Emissions Measured in 100 kHz Bandwidth

RESULT: Passed

Test Specification

Test standard : FCC Part 15.247(d)
Basic standard : ANSI C63.10: 2013

Limits : 20dB (below that in the 100kHz bandwidth within

the band that contains the highest level of the

desired power);

In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)

Kind of test site : Shielded Room

Test Setup

Date of testing : 10 Nov, 2015

Power supply : DC 5V
Operation mode : A (See 3.3)

Test channel : Low / Middle / High

Ambient temperature : 23.9 °C
Relative Humidity : 57 %
Atmospheric pressure : 101 kPa

All emissions are more than 20dB below fundamental, compliance is achieved as well.

For the measurement records, refer to the appendix 1.



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5.2.6 Spurious Emission

RESULT: Passed

Test Specification

Test standard : FCC Part 15.247(d), FCC Part 15.205

Basic standard : ANSI C63.4: 2014

Limits : Refer to 15.209(a) of FCC part 15.247(d)

Kind of test site : 3m Semi-anechoic chamber

Test Setup

Date of testing : Refer to the appendix 1.

Power supply : DC 5V

Operation mode : A (See 3.3)

Test channel : Low / Middle / High

Ambient temperature : Refer to the appendix 1.
Relative Humidity : Refer to the appendix 1.
Atmospheric pressure : Refer to the appendix 1.

Remark:

During the pretest the EUT was rotated through three orthogonal axes to determine the attitude that maximizes the emissions. After that the EUT was manually handled to find the orientation that has the maximum emission, which is the orientation shown in the test setup photos.

Testing was carried out within frequency range 9kHz to the tenth harmonics.

For the measurement records, refer to the appendix 1.



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5.2.7 Conducted Emissions

RESULT: Passed

Test Specification

Test standard : FCC part 15.207
Basic standard : ANSI C63.10: 2013
Frequency range : 0.15 – 30MHz
Limits : FCC Part 15.207(a)
Kind of test site : Shielded Room

Test setup

Input Voltage : DC 5V(with adapter, AC 120V, 60Hz)

Operation Mode : A (See 3.3)
Earthing : Not Connected

Ambient temperature : 23.5°C
Relative humidity : 54%
Atmospheric pressure : 101kPa

For details refer to test plot in Appendix 1.



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6 Safety Human exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT: Passed

Test Specification

Test standard : FCC Part 2 section 2.1091

KDB Publication 447498 D01r06

KDB Publication 447498 D03r01

MPE Calculation Method

 $E (V/m)=(30*P*G)^{0.5}/d$ Power Density: $Pd(W/m^2)=E^2/377$

E=Electric Field (V/m)

P=Peak RF output Power (W)

G=EUT Antenna numeric gain (numeric)

d= Separation distance between radiator and human body (m)

The formula can be changed to

 $Pd = (30*P*G)/(377*d^2)$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

	Antonno	Peak	Peak	Power	Limit of	
Frequency	Antenna Gain (Numeric)	Output	Output	Density	Power	Test
(MHz)		Power	Power	(S)	Density (S)	Result
		(dBm)	(mW)	(mW/cm2)	(mW/cm2)	
2412	-1.55	20.39	109.396	0.01523	1	Complies
2437	-1.55	20.78	119.674	0.01666	1	Complies
2462	-1.55	20.48	111.686	0.01555	1	Complies



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7 Photographs of the Test Set-Up

Photograph 1: Set-up for Spurious Emissions (9kHz - 30MHz)

Refer to set-up photo documents for details.

Photograph 2: Set-up for Spurious Emissions (30MHz-1GHz)

Refer to set-up photo documents for details.

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

Refer to set-up photo documents for details.

Photograph 4: Set-up for Conducted Emissions

Refer to set-up photo documents for details.



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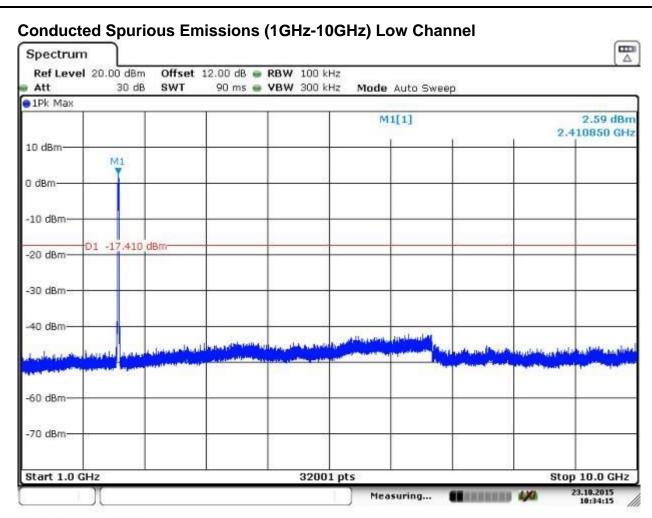


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Date: 23.OCT.2015 10:34:15



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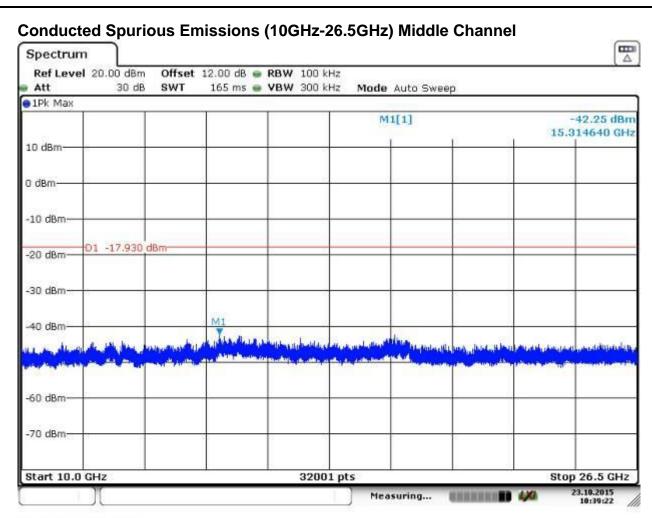


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Date: 23.OCT.2015 10:39:21



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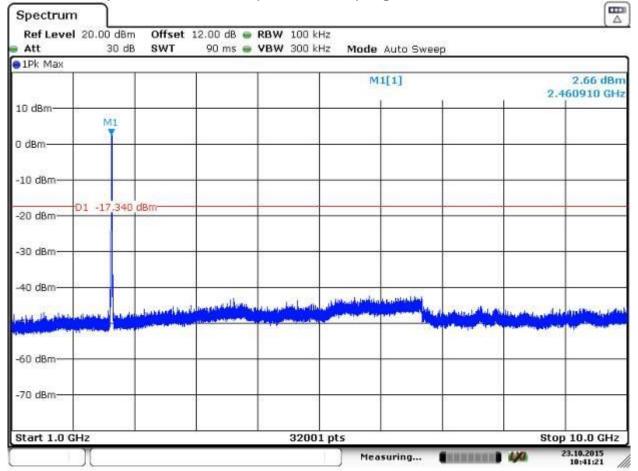


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Conducted Spurious Emissions (1GHz-10GHz) High Channel



Date: 23.OCT.2015 10:41:22



Stop 26.5 GHz 23.10.2015 10:42:19

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32001 pts

Measuring...

Date: 23.OCT.2015 10:42:20

-30 dBm

-40 dBm

-60 dBm-

-70 dBm

Start 10.0 GHz



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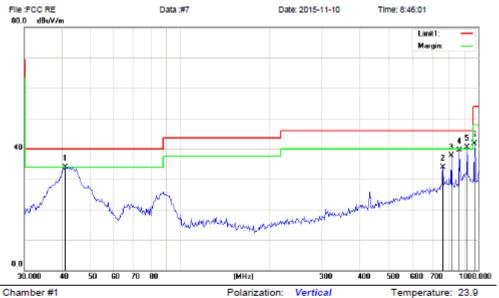
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Humidity: 57 %

Test Result: Pass

Radiateded Spurious Emissions (30MHz-1GHz)





Power: DC 5V

Distance: 3m

Site Chamber #1

Limit: (RE)FCC PART 15 class B 3m

EUT: Video Transmitter M/N: VT-200RGB Mode: n20 2437

Note:

No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		41.0951	20.05	13.90	33.95	40.00	-6.05	peak			
2		759.3027	10.59	23.23	33.82	46.00	-12.18	peak			
3		812.2713	13.59	24.10	37.69	46.00	-8.31	peak			
4		864.0656	15.70	23.84	39.54	46.00	-6.46	peak			
5	*	919.1626	13.60	27.00	40.60	46.00	-5.40	QP			
6		972.2936	16.93	24.78	41.71	54.00	-12.29	peak			



Prüfbericht - Nr.:

Test Report No.

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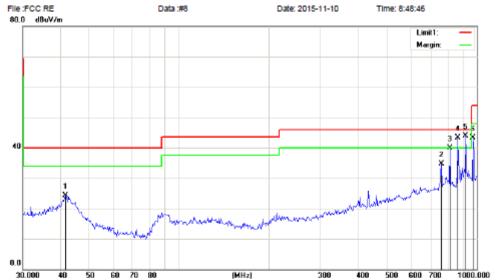
Page 11 of 27

Temperature: 23.9

Test Result: Pass

Humidity: 57 %





Polarization: Horizontal

Power: DC 5V

Distance: 3m

Site Chamber #1

Mode: n20 2437

Limit: (RE)FCC PART 15 class B 3m

EUT: Video Transmitter M/N: VT-200RGB

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		41.7938	10.42	13.85	24.27	40.00	-15.73	peak			
2	7	759.3027	11.40	23.23	34.63	46.00	-11.37	peak			
3	8	312.2713	15.88	24.10	39.98	46.00	-6.02	peak			
4	! 8	864.0656	19.46	23.84	43.30	46.00	-2.70	QP			
5	* (919.1626	16.90	27.00	43.90	46.00	-2.10	QP			
6	(972.2936	18.46	24.78	43.24	54.00	-10.76	peak			



Prüfbericht - Nr.:

Test Report No.

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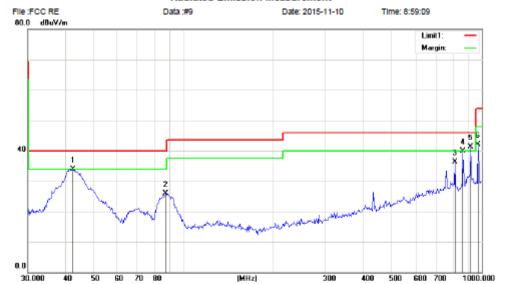
Page 12 of 27

Temperature: 23.9

Test Result: Pass

Humidity: 57 %





Polarization: Vertical

Power: DC 5V

Distance: 3m

Site Chamber #1

Limit: (RE)FCC PART 15 class B 3m

EUT: Video Transmitter M/N: VT-200RGB Mode: n40 2437

Note:

1 2 3	MHz 42.5042 86.7716		dB/m 13.76 8.17	dBuV/m 33.85 25.96	dBuV/m 40.00	dB -6.15	Detector peak	cm	degree	Comment
						-6.15	peak			
	86.7716	17.79	8.17	25.08						
3				20.80	40.00	-14.04	peak			
	812.2712	12.21	24.10	36.31	46.00	-9.69	peak			
4	864.0656	15.99	23.84	39.83	46.00	-6.17	peak			
5 *	* 919.1625	14.40	27.00	41.40	46.00	-4.60	QP			
6	972.2935	17.33	24.78	42.11	54.00	-11.89	peak			



Test Result: Pass

Prüfbericht - Nr.:

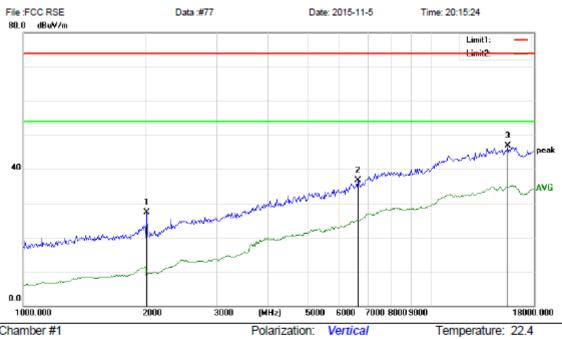
Test Report No.

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Radiateded Spurious Emissions (1GHz -18GHz)





Power: DC 5V

Distance: 3m

Site Chamber #1 Limit: (RE)FCC PART 15 class B 3m_PEAK

EUT: Video Transmitter

M/N: VT-200RGB Mode: n20 2412

No.	Mŀ	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2012.611	27.49	-0.26	27.23	74.00	-46.77	peak			
2		6649.159	25.02	11.72	36.74	74.00	-37.26	peak			
3	*	15520.28	26.56	20.42	46.98	74.00	-27.02	peak			



File:FCC RSE

80.0 dBuV/m

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18000.000

Temperature: 22.4

Test Result: Pass

Humidity: 59 %

Test Report No.

Radiated Emission Measurement

Data:#78

Date: 2015-11-5

Time: 20:17:39

Limit1:
Limit2:

AVG

5000 6000 7000 8000 900010000

Site Chamber #1

1000.000

Limit: (RE)FCC PART 15 class B 3m_PEAK

2000

3000

EUT: Video Transmitter

M/N: VT-200RGB Mode: n20 2412

Note:

No. M	lk. Fre		ling Correct el Facto			Over		Antenna Height	Table Degree		
	MH	z dBu	V dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment	
1	1903.7	94 27.0)5 -0.77	26.28	74.00	-47.72	peak				
2	7640.4	05 25.5	55 14.21	39.76	74.00	-34.24	peak				
3 *	15883.	92 25.7	75 21.41	47.16	74.00	-26.84	peak				

(MHz)

Polarization: Horizontal

Power: DC 5V

Distance: 3m



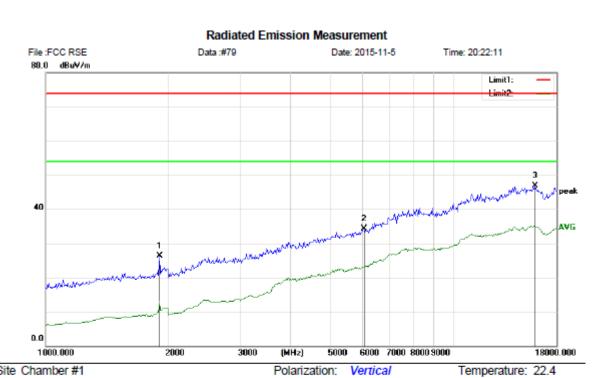
Test Result: Pass

Prüfbericht - Nr.:

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Test Report No.



Power: DC 5V

Distance: 3m

Site Chamber #1 Limit: (RE)FCC PART 15 class B 3m_PEAK

EUT: Video Transmitter

M/N: VT-200RGB Mode: n20 2437

No.	Mk	. Freq.			Measure- ment	Limit	Over		Antenna Height		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1903.794	27.17	-0.77	26.40	74.00	-47.60	peak			
2		6060.852	24.53	9.83	34.36	74.00	-39.64	peak			
3	*	15957.67	25.26	21.61	46.87	74.00	-27.13	peak			



Test Result: Pass

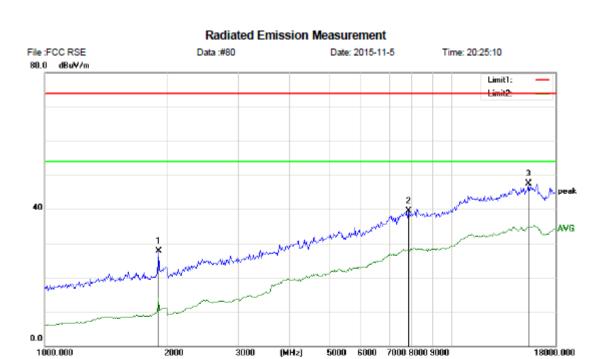
Humidity: 59 %

Prüfbericht - Nr.:

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Test Report No.



Power:

Distance: 3m

Polarization: Horizontal

DC 5V

Site Chamber #1

Limit: (RE)FCC PART 15 class B 3m_PEAK

EUT: Video Transmitter

M/N: VT-200RGB Mode: n20 2437

No.	Mk	. Freq.		Correct Factor	Measure- ment	Limit	Over		Antenna Height		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1903.794	28.55	-0.77	27.78	74.00	-46.22	peak			
2		7855.726	24.78	14.67	39.45	74.00	-34.55	peak			
3	*	15448.55	27.05	20.40	47.45	74.00	-26.55	peak			



Test Report No.

16070926 001

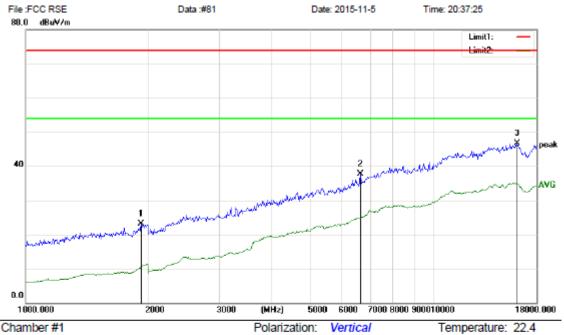
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Humidity: 59 %

Test Result: Pass





Polarization: Vertical

Power: DC 5V

Distance: 3m

Site Chamber #1

Limit: (RE)FCC PART 15 class B 3m_PEAK

EUT: Video Transmitter

M/N: VT-200RGB Mode: n20 2462

No.	Mk.	Freq.		Correct Factor	Measure- ment	Limit	Over		Antenna Height		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1921.513	23.78	-0.68	23.10	74.00	-50.90	peak			
2		6649.159	26.06	11.72	37.78	74.00	-36.22	peak			
3	*	16106.18	25.29	21.43	46.72	74.00	-27.28	peak			



Test Result: Pass

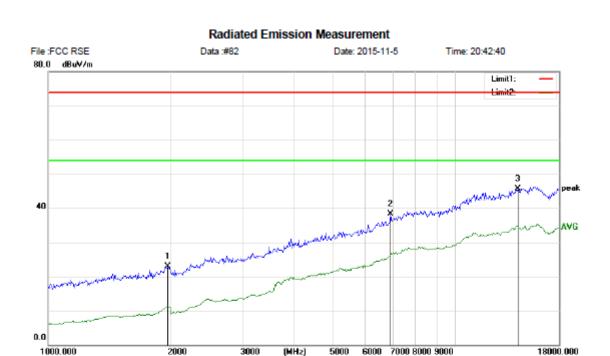
Humidity: 59 %

Prüfbericht - Nr.:

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Test Report No.



Polarization: Horizontal

DC 5V

Site Chamber #1 Limit: (RE)FCC PART 15 class B 3m_PEAK

EUT: Video Transmitter

M/N: VT-200RGB Mode: n20 2462

Note:

No.	Mk	. Freq.	Reading Level		Measure- ment	Limit	Over		Antenna Height		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1966.534	23.32	-0.47	22.85	74.00	-51.15	peak			
2		6932.209	25.70	12.64	38.34	74.00	-35.66	peak			
- 3	*	14278 73	25.06	20.68	45 74	74.00	-28.26	neak			

Power:

Distance: 3m



Test Result: Pass

Prüfbericht - Nr.:

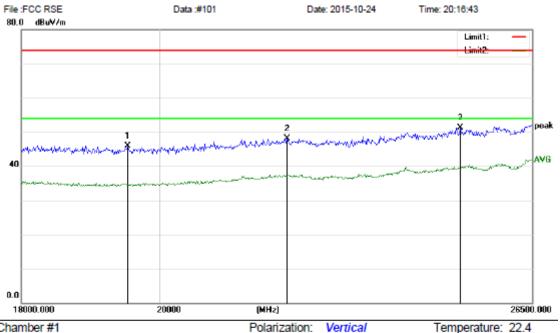
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Test Report No.

Radiateded Spurious Emissions (18GHz-26GHz)

Radiated Emission Measurement



Power: DC 5V

Distance: 3m

Site Chamber #1

Limit: (RE)FCC PART 15 class B 3m_PEAK

EUT: Video Transmitter

M/N: VT-200RGB Mode: n20 2412

No.	Mł	. Freq.		Correct Factor	Measure- ment	Limit	Over		Antenna Height		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		19510.43	26.04	19.80	45.84	74.00	-28.16	peak			
2		22017.02	26.95	21.11	48.06	74.00	-25.94	peak			
3	*	25093.27	28.23	23.08	51.31	74.00	-22.69	peak	·		



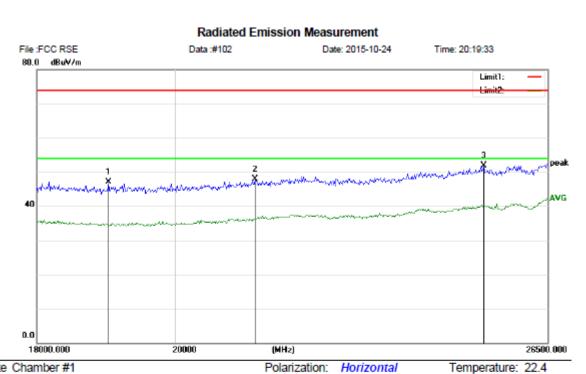
Test Result: Pass

Prüfbericht - Nr.:

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Test Report No.



Power: DC 5V

Distance: 3m

Site Chamber #1

Limit: (RE)FCC PART 15 class B 3m_PEAK

EUT: Video Transmitter

M/N: VT-200RGB Mode: n20 2412

No.	Mk	. Freq.		Correct Factor	Measure- ment	Limit	Over		Antenna Height		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		19009.07	27.44	19.69	47.13	74.00	-26.87	peak			
2		21239.57	26.88	20.99	47.87	74.00	-26.13	peak			
3	*	25249.29	28.85	23.11	51.96	74.00	-22.04	peak			



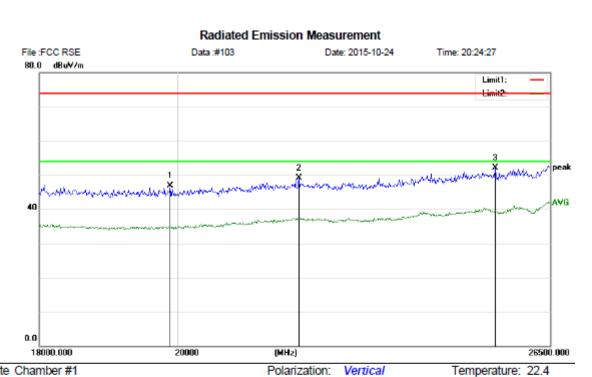
Test Result: Pass

Prüfbericht - Nr.:

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Test Report No.



Power: DC 5V

Distance: 3m

Site Chamber #1

Limit: (RE)FCC PART 15 class B 3m_PEAK

EUT: Video Transmitter

M/N: VT-200RGB Mode: n20 2437

No.	Mk	. Freq.			Measure- ment	Limit	Over		Antenna Height		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		19876.62	27.00	19.89	46.89	74.00	-27.11	peak			
2		21908.12	27.93	21.08	49.01	74.00	-24.99	peak			
3	*	25422.03	29.02	23.15	52.17	74.00	-21.83	peak			



Test Result: Pass

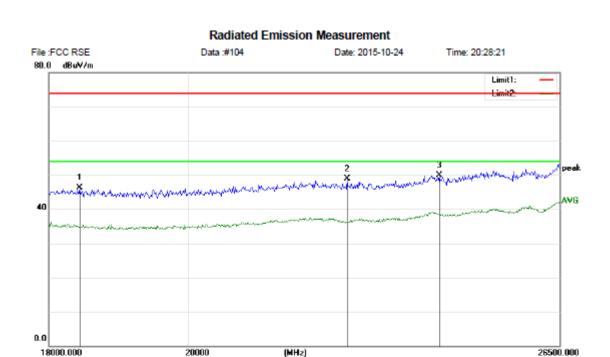
Humidity: 59 %

Prüfbericht - Nr.:

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Test Report No.



Polarization: Horizontal

Power: DC 5V

Distance: 3m

Site Chamber #1 Limit: (RE)FCC PART 15 class B 3m_PEAK

EUT: Video Transmitter

M/N: VT-200RGB Mode: n20 2437

No.	Mk	. Freq.	Reading Level		Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		18428.99	26.10	20.15	46.25	74.00	-27.75	peak			
2		22569.71	27.47	21.47	48.94	74.00	-25.06	peak			
3	*	24192.19	27.28	22.61	49.89	74.00	-24.11	peak			



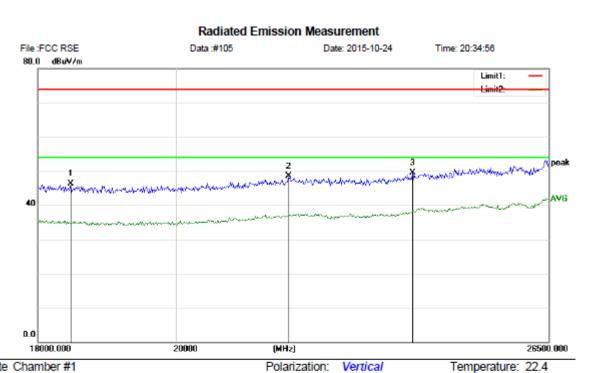
Test Result: Pass

Prüfbericht - Nr.:

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Test Report No.



Power: DC 5V

Distance: 3m

Site Chamber #1

Limit: (RE)FCC PART 15 class B 3m_PEAK

EUT: Video Transmitter

M/N: VT-200RGB Mode: n20 2462

No.	Mk	. Freq.	Reading Level		Measure- ment	Limit	Over		Antenna Height		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		18451.85	26.18	20.13	46.31	74.00	-27.69	peak			
2		21772.74	27.48	21.06	48.54	74.00	-25.46	peak			
3	*	23908.95	27.08	22.43	49.51	74.00	-24.49	peak	·	·	



Test Result: Pass

Humidity: 59 %

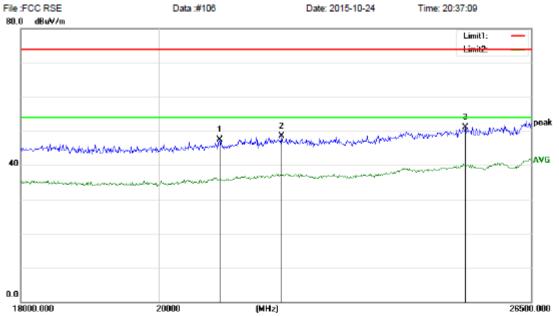
Prüfbericht - Nr.:

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Test Report No.

Radiated Emission Measurement



Polarization: Horizontal

Power: DC 5V

Distance: 3m

Site Chamber #1

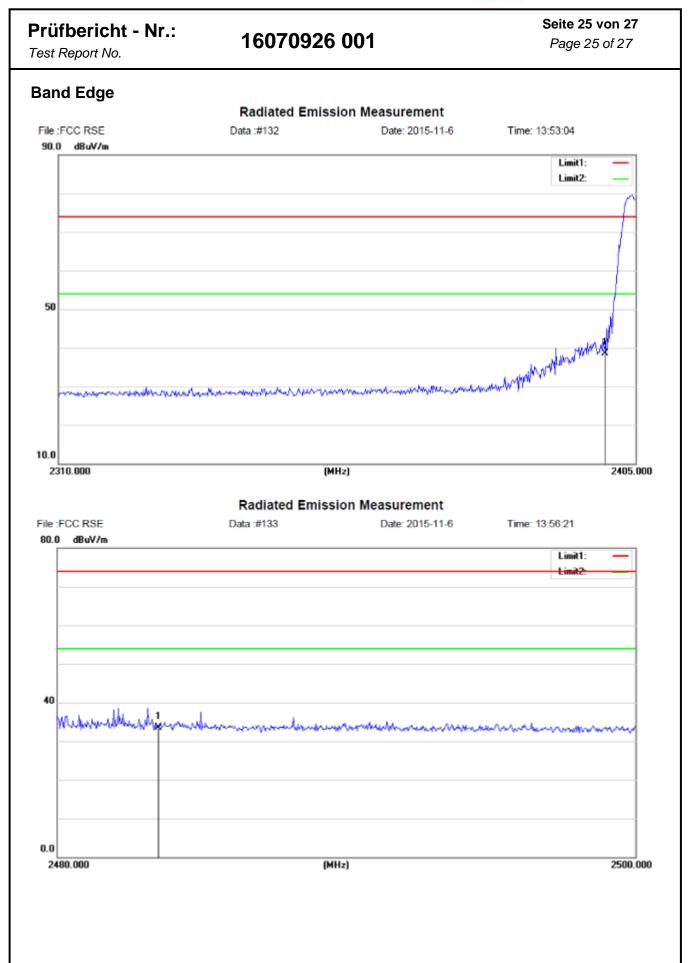
Limit: (RE)FCC PART 15 class B 3m_PEAK

EUT: Video Transmitter

M/N: VT-200RGB Mode: n20 2462

No.	Mk	. Freq.	Reading Level		Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		20925.95	26.60	20.87	47.47	74.00	-26.53	peak			
2		21935.29	27.46	21.09	48.55	74.00	-25.45	peak			
3	*	25218.01	28.09	23.11	51.20	74.00	-22.80	peak			







Test Report No.

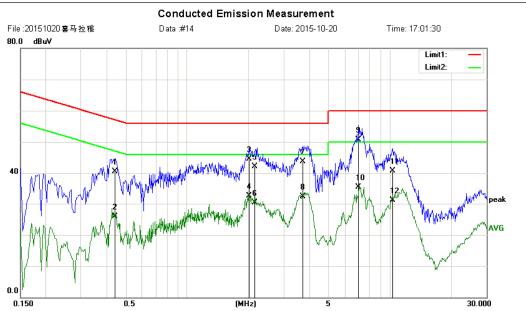
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GRGTEST

GUANGZHOU GRG METEROLOGY & TEST TECHNOLOGY CO.,LTD

Tel (86)020-38699960 Http://www.grgtest.com



Site Chamber#1

Limit: (CE)FCC PART 15 class B_QP

EUT: Video Transmitter M/N: VT-200RGB

Mode: A Note: Power: DC 5V Humidity: 54 %
Test Result: Pass

Temperature: 23.5

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBu∀	dBu∨	dB	Detector	Comment
1		0.4420	34.09	6.51	40.60	57.02	-16.42	QΡ	
2		0.4420	19.39	6.51	25.90	47.02	-21.12	AVG	
3		2.0180	37.91	6.59	44.50	56.00	-11.50	QP	
4		2.0180	25.91	6.59	32.50	46.00	-13.50	AVG	
5		2.1478	35.56	6.59	42.15	56.00	-13.85	QР	
6		2.1478	23.79	6.59	30.38	46.00	-15.62	AVG	
7		3.7313	37.10	6.68	43.78	56.00	-12.22	QP	
8		3.7313	25.71	6.68	32.39	46.00	-13.61	AVG	
9	*	6.9979	43.93	6.87	50.80	60.00	-9.20	QР	
10		6.9979	28.53	6.87	35.40	50.00	-14.60	AVG	
11		10.2926	33.91	6.75	40.66	60.00	-19.34	QΡ	
12		10.2926	24.26	6.75	31.01	50.00	-18.99	AVG	

Phase:

^{*:}Maximum data x:Over limit !:over margin



16070926 001

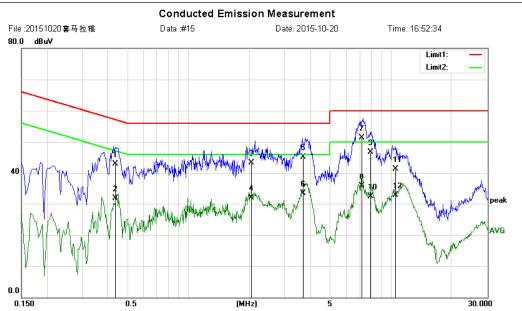
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Test Report No.

GRGTEST

GUANGZHOU GRG METEROLOGY & TEST TECHNOLOGY CO.,LTD

Tel (86)020-38699960 <u>Http://www.grgtest.com</u>



Site Chamber#1

Limit: (CE)FCC PART 15 class B_QP

EUT: Video Transmitter M/N: VT-200RGB

Mode: A Note: Phase: L1 Temperature: 23.5
Power: DC 5V Humidity: 54 %

Humidity: 54 % Test Result: Pass

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment
1		0.4380	36.39	6.51	42.90	57.10	-14.20	QΡ	
2		0.4380	25.29	6.51	31.80	47.10	-15.30	AVG	
3		2.0523	36.63	6.59	43.22	56.00	-12.78	QΡ	
4		2.0523	25.22	6.59	31.81	46.00	-14.19	AVG	
5		3.6986	38.36	6.70	45.06	56.00	-10.94	QР	
6		3.6986	26.54	6.70	33.24	46.00	-12.76	AVG	
7	*	7.1898	44.48	6.86	51.34	60.00	-8.66	QP	
8		7.1898	28.94	6.86	35.80	50.00	-14.20	AVG	
9		7.9572	39.92	6.83	46.75	60.00	-13.25	QР	
10		7.9572	25.52	6.83	32.35	50.00	-17.65	AVG	
11		10.4928	34.55	6.70	41.25	60.00	-18.75	QΡ	
12		10.4928	26.02	6.70	32.72	50.00	-17.28	AVG	
									-

^{*:}Maximum data x:Over limit !:over margin