

TEST REPORT

FCC ID: 2AHW7-G5GS

Product: 3-Axis Gimbal for Sony Camera

Model No.: G5GS Additional Model No.: N/A

Trade Mark: FeiyuTech

Report No.: TCT171219E009

Issued Date: Dec. 07, 2017

Issued for:

Guilin Feiyu Technology Incorporated Company

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1. Test Certification

Report No.: TCT171219E009

Product:	3-Axis Gimbal for Sony Camera				
Model No.:	G5GS				
Additional Model No.:	N/A				
Trade Mark:	FeiyuTech				
Applicant:	plicant: Guilin Feiyu Technology Incorporated Company				
Address:	3rd Floor, B, Guilin Electric Valley, Innovation Building, Information Industry Park, ChaoYang Road, Qi Xing District, Guilin 541004, China				
Manufacturer:	Guilin Feiyu Technology Incorporated Company				
Address:	3rd Floor, B, Guilin Electric Valley, Innovation Building, Information Industry Park, ChaoYang Road, Qi Xing District, Guilin 541004, China				
Date of Test:	Dec. 01, 2017 –Dec. 07, 2017				
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 KDB 558074 D01 DTS Meas Guidance v04				

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:	Bery Thero	Date:	Dec. 07, 2017	
(c)	Beryl Zhao			
Reviewed By:	Zan Thomas	NGCE PO Date:	Dec. 07, 2017	
(0)	Joe Zhou	CT)		
Approved By:	Tomsm 3	Date:	Dec. 07, 2017	
	Tomsin	((C)	



2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203/§15.247 (c)	PASS
AC Power Line Conducted Emission	§15.207	PASS
Conducted Peak Output Power	§15.247 (b)(3) §2.1046	PASS
6dB Emission Bandwidth	§15.247 (a)(2) §2.1049	PASS
Power Spectral Density	§15.247 (e)	PASS
Band Edge	1§5.247(d) §2.1051, §2.1057	PASS
Spurious Emission	§15.205/§15.209 §2.1053, §2.1057	PASS

Note:

- 1. PASS: Test item meets the requirement.
- 2. Fail: Test item does not meet the requirement.
- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.





3. EUT Description

Product:	3-Axis Gimbal for Sony Camera
Model No.:	G5GS
Additional Model No.:	N/A
Trade Mark:	FeiyuTech
BT Version:	V4.0
Operation Frequency:	2402MHz~2480MHz
Channel Separation:	2MHz
Number of Channel:	40
Modulation Technology:	GFSK
Antenna Type:	Internal Antenna
Antenna Gain:	1.68dBi
Power Supply:	DC 3.7V from built-in battery and DC 5V from USB Port
Remark:	N/A

Operation Frequency each of channel

	m i requent	, 					
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz
Remark:	Channel 0, 1	9 & 39 ha	ave been tes	sted.			



TESTING CENTRE TECHNOLOGY Report No.: TCT171219E009

4. Genera Information

4.1. Test environment and mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 98.46%) with Fully-charged battery.

The sample was placed (0.1m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

4.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
1	,	1) 1	

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

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5. Facilities and Accreditations

5.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Registration No.: 645098

Shenzhen Tongce Testing Lab

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

IC - Registration No.: 10668A-1

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

5.2. Location

Shenzhen Tongce Testing Lab

Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District,

Shenzhen, Guangdong, China

TEL: +86-755-27673339

5.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	±2.56dB
2	RF power, conducted	±0.12dB
3	Spurious emissions, conducted	±0.11dB
4	All emissions, radiated(<1G)	±3.92dB
5	All emissions, radiated(>1G)	±4.28dB
6	Temperature	±0.1°C
7	Humidity	±1.0%



6. Test Results and Measurement Data

6.1. Antenna requirement

Standard requirement:

FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

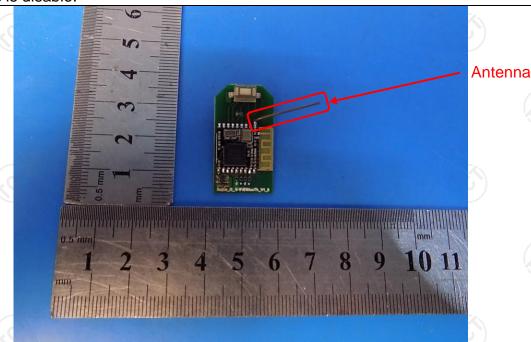
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

The Bluetooth antenna is a internal antenna which permanently attached, and the best case gain of the antenna is 1.68dBi. Only the line antenna is available, the PCB antennas is disable.



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6.2. Conducted Emission

6.2.1. Test Specification

Test Method: Frequency Range: Receiver setup: Limits: Test Setup:	C Part15 C Section SI C63.10:2013 kHz to 30 MHz W=9 kHz, VBW=30 Frequency range (MHz) 0.15-0.5 0.5-5 5-30 Referen	kHz, Sweep time	e=auto (dBuV) Average 56 to 46* 46
Frequency Range: Receiver setup: Limits: Test Setup:	W=9 kHz, VBW=30 Frequency range (MHz) 0.15-0.5 0.5-5 5-30 Referen	Limit (Quasi-peak 66 to 56* 56	(dBuV) Average 56 to 46*
Receiver setup: Limits: Test Setup:	W=9 kHz, VBW=30 Frequency range (MHz) 0.15-0.5 0.5-5 5-30 Referen	Limit (Quasi-peak 66 to 56* 56	(dBuV) Average 56 to 46*
Limits: Test Setup:	Frequency range (MHz) 0.15-0.5 0.5-5 5-30	Limit (Quasi-peak 66 to 56* 56	(dBuV) Average 56 to 46*
Limits: Test Setup:	(MHz) 0.15-0.5 0.5-5 5-30	Quasi-peak 66 to 56* 56	Average 56 to 46*
Ren	Referen	60	
Ren	<u> </u>		50
Ren	10000	nce Plane	1201
L/S/	Test table/Insulation plan nark: T: Equipment Under Test V: Line Impedence Stabilization t table height=0.8m	EMI Receiver	Iter — AC power
Test Mode: PC	Mode		
Test Procedure:	The E.U.T is connecting the peripheral devices of the peripheral devic	ation network 50uH coupling in nt. es are also conn SN that provide with 50ohm term diagram of the line are checkinge. In order to five positions of equals must be changed.	(L.I.S.N.). This inpedance for the ected to the main is a 500hm/50uH mination. (Please test setup and ed for maximum ind the maximum uipment and all of ged according to
Test Result: PAS	NSI C63.10: 2013		easurement.



6.2.2. Test Instruments

Report No.: TCT171219E009

Conducted Emission Shielding Room Test Site (843)							
Equipment	Manufacturer	Model	Serial Number	Calibration Due			
Test Receiver	R&S	ESPI	101401	Jun. 12, 2018			
LISN	Schwarzbeck	NSLK 8126	8126453	Sep. 27, 2018			
Coax cable (9KHz-30MHz)	тст	CE-05	N/A	Sep. 27, 2018			
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A			

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).







6.2.3. Test data

Please refer to following diagram for individual

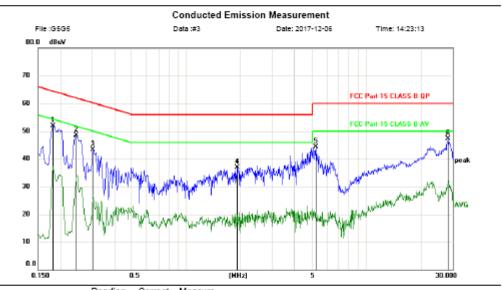
Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)

 Site LAB
 Phase:
 L1
 Temperature:
 24.2

 Limit: FCC Part 15 CLASS B QP
 Power:
 DC 5V For PC
 Humidity:
 53 %

EUT: 3-Axis Gimbal for Sony Camera

M/N: G5GS Mode: PC Mode Note: Engineer Signature:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margir	1	
		MHz	dBu∀	dB	dBu√	dBu∀	dB	Detector	Comment
1	×	0.1814	51.97	0.00	51.97	64.42	-12.45	peak	
2		0.2444	48.57	0.00	48.57	61.95	-13.38	peak	
3		0.3029	43.40	0.00	43.40	60.16	-16.76	peak	
4		1.9229	36.89	0.00	36.89	56.00	-19.11	peak	
5		5.2214	44.32	0.00	44.32	60.00	-15.68	peak	
6		28.3515	47.26	0.00	47.26	60.00	-12.74	peak	





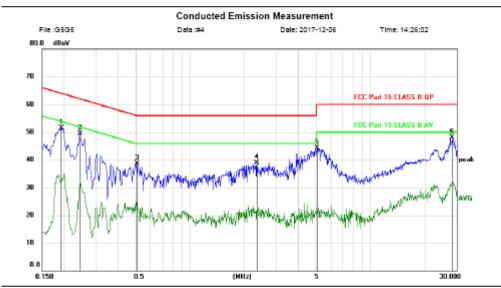
Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)

 Site LAB
 Phase:
 N
 Temperature:
 24.2

 Limit:
 FCC Part 15 CLASS B QP
 Power:
 DC 5V For PC
 Humidity:
 53 %

EUT: 3-Axis Gimbal for Sony Camera M/N: G5GS Mode: PC Mode

Note: Engineer Signature:



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margir	1	
	MHz	dBu∀	dB	dBu∀	dBu∀	d₿	Detector	Comment
1	0.1922	51.41	0.00	51.41	63.94	-12.53	peak	
2	0.2444	49.52	0.00	49.52	61.95	-12.43	peak	
3	0.5100	38.78	0.00	38.78	56.00	-17.22	peak	
4	2.3368	38.83	0.00	38.83	56.00	-17.17	peak	
5	5.0460	44.33	0.00	44.33	60.00	-15.67	peak	
6 ×	28.3600	48.08	0.00	48.08	60.00	-11.92	peak	







6.3. Conducted Output Power

6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	KDB558074
Limit:	30dBm
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Refer to item 4.1
Test Procedure:	 The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v04. Set spectrum analyzer as following: a) Set the RBW ≥ DTS bandwidth. b) Set VBW ≥ 3 x RBW. c) Set span ≥ 3 x RBW d) Sweep time = auto couple. e) Detector = peak. f) Trace mode = max hold. g) Allow trace to fully stabilize. h) Use peak marker function to determine the peak amplitude level.
Test Result:	PASS

6.3.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	R&S	FSU	200054	Sep. 27, 2018
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018
Antenna Connector	TCT	RFC-01	N/A	Sep. 27, 2018

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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6.3.3. Test Data

BT LE mode						
Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result			
Lowest	-0.865	30.00	PASS			
Middle	-1.423	30.00	PASS			
Highest	-2.309	30.00	PASS			

Test plots as follows:





BT LE mode

Lowest channel

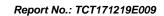


Middle channel



Highest channel







6.4. Emission Bandwidth

6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB558074
Limit:	>500kHz
Test Setup:	EUT.
Test Mode:	Refer to item 4.1
Test Procedure:	 The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v04. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. Measure and record the results in the test report.
Test Result:	PASS

6.4.2. Test Instruments

RF Test Room							
Equipment Manufacturer Model Serial Number Calibration De							
Spectrum Analyzer	R&S	FSU	200054	Sep. 27, 2018			
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018			
Antenna Connector	TCT	RFC-01	N/A	Sep. 27, 2018			

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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6.4.3. Test data

Test channel	6dB Emission Bandwidth (kHz)					
rest channel	BT LE mode	Limit	Result			
Lowest	658.8	>500k				
Middle	678.7	>500k	PASS			
Highest	683.2	>500k				

Test plots	as follows:				



BT LE mode

Lowest channel



Middle channel



Highest channel





6.5. Power Spectral Density

6.6. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB558074
Limit:	The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.
Test Setup:	Southwest for the second secon
	Spectrum Analyzer
Test Mode:	Refer to item 4.1
Test Procedure:	 The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v04 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW) Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level. Measure and record the results in the test report.
Test Result:	PASS

6.6.1. Test Instruments

	<u> </u>							
RF Test Room								
Equipment Manufacturer Model Serial Number Calibration De								
Spectrum Analyzer	R&S	FSU	200054	Sep. 27, 2018				
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018				
Antenna Connector	тст	RFC-01	N/A	Sep. 27, 2018				

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



6.6.2. Test data

Toot channel	Power Spectral Density (dBm/3kHz)					
Test channel	BT LE mode	Limit	Result			
Lowest	-14.053	8 dBm/3kHz	No.			
Middle	-15.871	8 dBm/3kHz	PASS			
Highest	-17.069	8 dBm/3kHz				

Test plots as follows:





Lowest channel



Middle channel



Highest channel







6.7. Conducted Band Edge and Spurious Emission Measurement

6.7.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions 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).
Test Setup:	Structure Analysis EUT
Test Mode:	Refer to item 4.1
Test Procedure:	 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). Measure and record the results in the test report. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
Test Result:	PASS





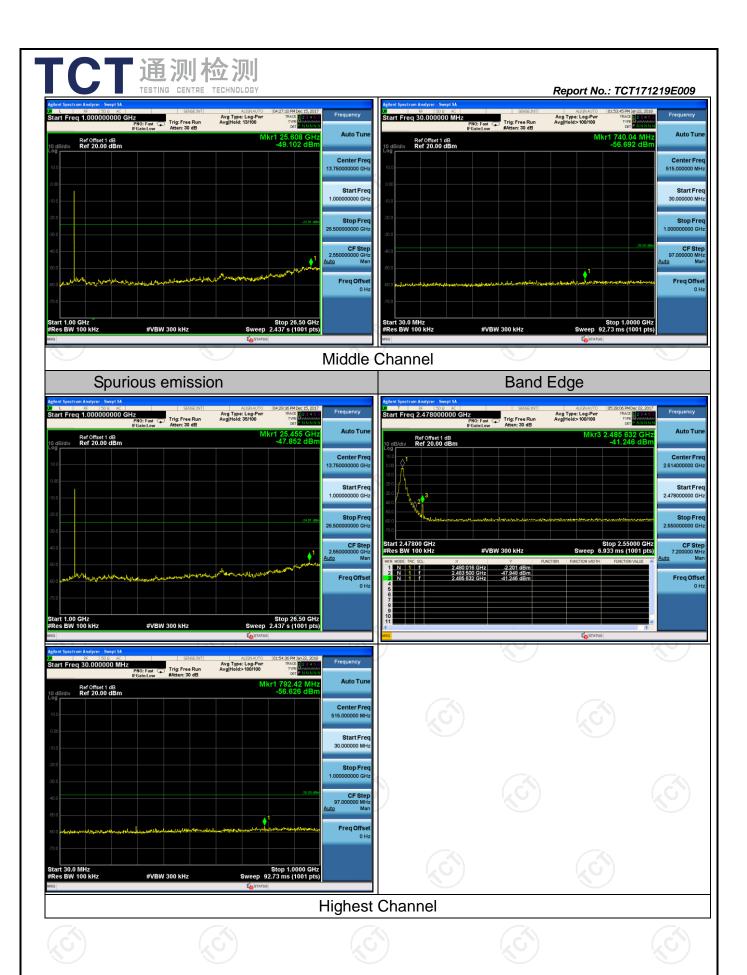
6.7.2. Test Instruments

RF Test Room													
Equipment	Manufacturer	Model	Serial Number	Calibration Due									
Spectrum Analyzer	R&S	FSU	200054	Sep. 27, 2018									
Spectrum Analyzer	ROHDE&SCH WARZ	FSQ	200061	Sep. 27, 2018									
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018									
Antenna Connector	тст	RFC-01	N/A	Sep. 27, 2018									

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.7.3. Test Data





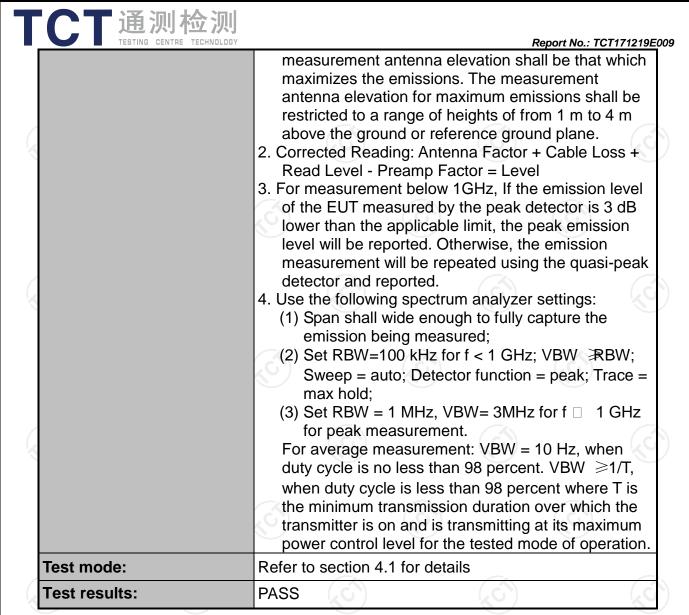


6.8. Radiated Spurious Emission Measurement

6.8.1. Test Specification

Test Requirement:	FCC Part15	C Sectio	n 1	5.209	(0)		KC			
Test Method:	ANSI C63.10: 2013									
Frequency Range:	9 kHz to 25 GHz									
Measurement Distance:	3 m									
Antenna Polarization:	Horizontal & Vertical									
Operation mode:	Refer to item 4.1									
	Frequency 9kHz- 150kHz 150kHz-	Detector Quasi-pea Quasi-pea	ak	RBW 200Hz 9kHz	VBW 1kHz 30kHz	Qua	Remark si-peak Value si-peak Value			
Receiver Setup:	30MHz 30MHz-1GHz Above 1GHz	Quasi-pea Peak	ak	100KHz 1MHz	300KHz 3MHz	Р	si-peak Value eak Value			
	Above Total	Peak		1MHz	10Hz	Ave	erage Value			
	Frequen	псу	(Field Stre		Measurement Distance (meters)				
	0.009-0.4		2400/F(KHz							
	0.490-1.7		24000/F(KHz)		KHz)	30				
	1.705-30			30 100			30			
	30-88 88-216			150			3			
Limit:	216-96		200			3				
	Above 9		500				3			
		57)	(,0,)			ı	(/C			
	Frequency		rield Strength icrovolts/meter) Dist		Measure Distan (mete	ce	Detector			
	Above 1GH	z	500		3		Average			
	3,000		50	000	3		Peak			
	For radiated	emissior	ns b	elow 30	MHz					
		Distance = 3m					Computer			
To all a alienne	,	•	1			Pre -	Amplifier			
Test setup:	EUT	Turn table	<u> </u>			F	Receiver			
			Groun	d Plane		L				
	30MHz to 10	GHz								

EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level. For the radiated emission test above 1GHz: Place the measurement antenna on a turntable with 1.5 meter above ground, which is away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final

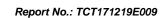


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6.8.2. Test Instruments

Radiated Emission Test Site (966)											
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due							
Test Receiver	ROHDE&SCHW ARZ	ESVD	100008	Sep. 27, 2018							
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ	200061	Sep. 27, 2018							
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 27, 2018							
Pre-amplifier	HP	8447D	2727A05017	Sep. 27, 2018							
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 27, 2018							
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 27, 2018							
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 27, 2018							
Horn Antenna	Schwarzbeck	BBH 9170	582	Jun. 07, 2018							
Antenna Mast	Keleto	CC-A-4M	N/A	N/A							
Coax cable (9KHz-1GHz)	тст	RE-low-01	N/A	Sep. 27, 2018							
Coax cable (9KHz-40GHz)	тст	RE-high-02	N/A	Sep. 27, 2018							
Coax cable (9KHz-1GHz)	тст	RE-low-03	N/A	Sep. 27, 2018							
Coax cable (9KHz-40GHz)	тст	RE-high-04	N/A	Sep. 27, 2018							
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A							

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



6.8.3. Test Data

Please refer to following diagram for individual

Below 1GHz

Site LAB Limit: FCC Class B Radiation

EUT: 3-Xis Gimbal for Sony Camera

M/N: G5GS Mode:PC Mode Note:

Engineer Signature:

Polarization: Vertical

Power: DC 5V

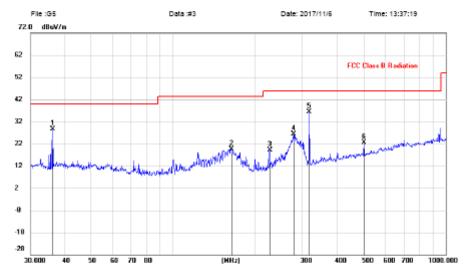
Temperature: Humidity:

46 %

Report No.: TCT171219E009

Radiated Emission Measurement

Distance: 3m



No.	M	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height		
		MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		36.2541	15.10	13.59	28.69	40.00	-11.31	peak			
2		163.7550	5.47	14.28	19.75	43.50	-23.75	peak			
3		225.3080	7.60	11.56	19.16	46.00	-26.84	peak			
4		278.0668	13.40	12.94	26.34	46.00	-19.66	peak			
5	×	316.5890	22.65	13.79	36.44	46.00	-9.56	peak			
6		501.1790	5.33	17.22	22.55	46.00	-23.45	peak			





Site LAB

Limit: FCC Class B Radiation

EUT: 3-Xis Gimbal for Sony Camera

M/N: G5GS Mode:PC Mode Note:

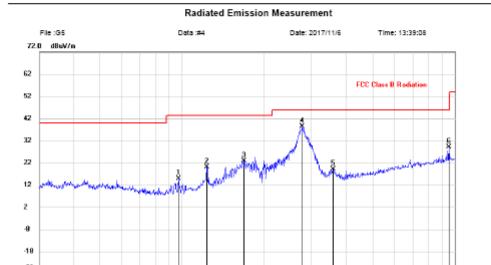
Engineer Signature:

Polarization: Horizontal

Power: DC 5V Distance: 3m Temperature: 2 Humidity: 46 %

600 700

annaly. 40 to



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		97.1148	4.50	10.35	14.85	43.50	-28.65	peak			
2		123.6985	7.23	12.83	20.06	43.50	-23.44	peak			
3		169.0054	8.98	13.85	22.83	43.50	-20.67	peak			
4	×	275.1570	25.40	12.87	38.27	46.00	-7.73	peak			
5		357.9287	4.69	14.48	19.17	46.00	-26.83	peak			
6		952.0937	5.53	23.58	29.11	46.00	-16.89	peak			

Note: 1.The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported

2. Measurements were conducted in all three channels (high, middle, low), and the worst case Mode (Middle channel) was submitted only.



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Above 1GHz

Low chann	el: 2402 M	1Hz							
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
2390	Н	47.08		-8.27	38.81		74	54	-35.19
4804	Н	46.32		0.66	46.98		74	54	-27.02
7206	Н	34.38		9.5	43.88		74	54	-30.12
	Н				-				
			(.G			.67)		(.c.)	
2390	V	45.93		-8.27	37.66	<u></u>	74	54	-36.34
4804	V	44.05		0.66	44.71		74	54	-29.29
7206	V	36.51		9.5	46.01		74	54	-27.99
	V	/K			X		7		

					_ /				
Middle cha	nnel: 2440)MHz							
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	AV	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4880		46.91	- 	0.99	47.90	(C) 1 -	74	54	-26.10
7320	H	37.64		9.87	47.51	<u></u>	74	54	-26.49
	Н								
4880	V	46.55		0.99	47.54		74	54	-26.46
7320	V	37.41		9.87	47.28		74	54	-26.72
	V				-				

High chann	nel: 2480 N	ЛHz		,					
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Peak	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
2483.5	Н	45.58		-7.83	37.75		74	54	-36.25
4960	Н	44.75		1.33	46.08		74	54	-27.92
7440	Н	35.32		10.22	45.54		74	54	-28.46
)	Н	(<u>~</u>)		(<i></i>		\\\\\		
2483.5	V	47.62		-7.83	39.79		74	54	-34.21
4960	V	47.88		1.33	49.21		74	54	-24.79
7440	CV	36.17	-4,0	10.22	46.39	.G-}	74	54	-27.61
	V			/				27	

Note:

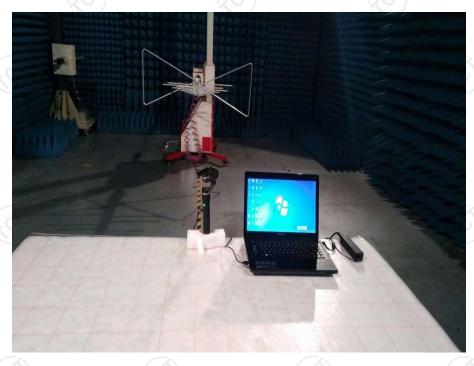
- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

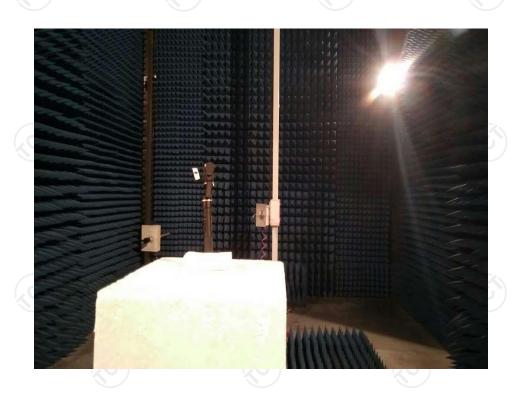
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Appendix A: Photographs of Test Setup Product: 3-Axis Gimbal for Sony Camera Model: G5GS **Radiated Emission**







Conducted Emission





Appendix B: Photographs of EUT

















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