



FCC Part 15C Test Report

FCC ID: 2AG77SN910EX

Product Name:	Speedlite
Trademark:	SHANNY
Model Name :	SN910EX-RF
Prepared For :	Shenzhen Shanny Photography Optical Equipment Co., Ltd
Address :	Rm.505,Fuquan Building,Qingquan Road,Longhua New District,Shenzhen,China
Prepared By :	Shenzhen BCTC Technology Co., Ltd.
Address :	No.101,Yousong Road,Longhua New District, Shenzhen,China
Test Date:	Dec. 31, 2015 – Jan. 8, 2016
Date of Report :	Jan. 9, 2016
Report No.:	BCTC-151216653



VERIFICATION OF COMPLIANCE

Applicant's name : **Shenzhen Shanny Photography Optical Equipment Co., Ltd**
Address : Rm.505,Fuquan Building,Qingquan Road,Longhua New
District,Shenzhen,China

Manufacture's Name : **Shenzhen Shanny Photography Optical Equipment Co., Ltd**
Address : Rm.505,Fuquan Building,Qingquan Road,Longhua New
District,Shenzhen,China

Product description

Product name : Speedlite

Trademark:

SHANNY

Model Name:

SN910EX-RF

Test procedure : FCC Part15.249

Standards : ANSI C63.10-2013

This device described above has been tested by BCTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Test Result.....: **Pass**

Testing Engineer :

Eric Yang

(Eric Yang)

Technical Manager :

Sophie Lee

(Sophia Lee)

Authorized Signatory :

Carson. Zhang



(Carson. Zhang)

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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.249) , Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	N/A	
15.249	Radiated Spurious Emission	PASS	
15.249	Bandwidth	PASS	
15.205	Band Edge Emission	PASS	
15.203	Antenna Requirement	PASS	

NOTE:

(1) "N/A" denotes test is not applicable in this Test Report

1.1 TEST FACILITY

Shenzhen BCTC Technology Co., Ltd.

Add.:No.101,Yousong Road,Longhua New District, Shenzhen,China

FCC Registration No.:187086

1.2 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	Uncertainty
1	Conducted Emission Test	$\pm 1.38\text{dB}$
2	RF power,conducted	$\pm 0.16\text{dB}$
3	Spurious emissions,conducted	$\pm 0.21\text{dB}$
4	All emissions,radiated(<1G)	$\pm 4.68\text{dB}$
5	All emissions,radiated(>1G)	$\pm 4.89\text{dB}$
6	Temperature	$\pm 0.5^{\circ}\text{C}$
7	Humidity	$\pm 2\%$



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Speedlite	
Trade Name	SHANNY	
Model Name	SN910EX-RF	
Product Description	Operation Frequency:	2415~2429 MHz
	Modulation Type:	FSK
	Number Of Channel	15 CH
	Antenna Designation:	Please see Note 3.
	Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.	
Channel List	Please refer to the Note 2.	
Adapter	N/A	
Battery	DC 6V(1.5V AA battery*4)	
Connecting I/O Port(s)	Please refer to the User's Manual	
hardware version	--	
Software version	--	
Serial number	--	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2.

Channel List					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2415	05	2420	10	2425
01	2416	06	2421	11	2426
02	2417	07	2422	12	2427
03	2418	08	2423	13	2428
04	2419	09	2424	14	2429

- 3.

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	N/A	Internal Antenna	N/A	3.0	



2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

For Radiated Emission	
Final Test Mode	Description
Mode 1	CH00
Mode 2	CH07
Mode 3	CH14

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) Fully-charged battery is used during the test

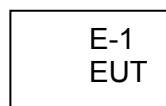
2.3 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of FHSS

Frequency	2415 MHz	2422 MHz	2429 MHz
Channel	Low	Middle	High

2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Emission Test





2.5 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Speedlite	N/A	SN910EX-RF	01	EUT

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation test, Band-edge test and 20db bandwith test quipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY45108040	2015.06.06	2016.06.05	1 year
2	Test Receiver	R&S	ESPI	101318	2015.06.06	2016.06.05	1 year
3	Bilog Antenna	R&S	VULB 9168	VULB9168-438	2015.06.06	2016.06.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2015.06.06	2016.06.05	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2015.06.06	2016.06.05	1 year
6	Horn Antenna	R&S	HF906	10027	2015.06.06	2016.06.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2015.06.06	2016.06.05	1 year
8	Amplifier	R&S	BBV9743	9743-019	2015.12.22	2016.12.21	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2015.06.06	2016.06.05	1 year
10	RF cables	R&S	R203	R20X	2015.06.06	2016.06.05	1 year
11	Antenna connector	Florida RFLabs	Lab-Fle	RF 01#	2015.06.06	2016.06.05	1 year



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class B (dBuV)		Standard
	Quas -peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

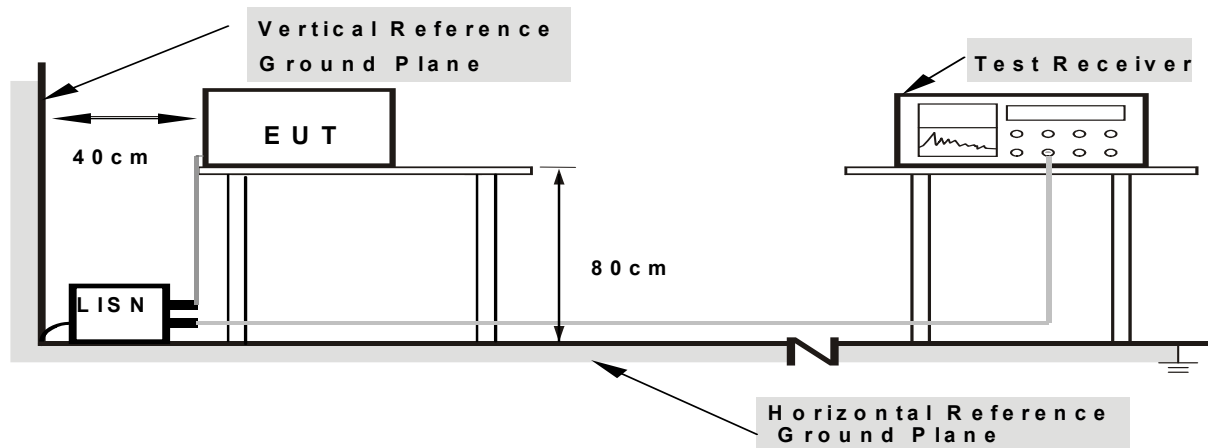
3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

The data only show the worst mode.

3.1.6 TEST RESULTS

The product's power provide by battery, no need test for this item.



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower



Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

3.2.2 TEST PROCEDURE

- The measuring distance of at 3 m shall be used for measurements at frequency up to 25GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 1.5 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.
- For the radiated emission test above 1GHz:

Place the measurement antenna 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 measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

Note:

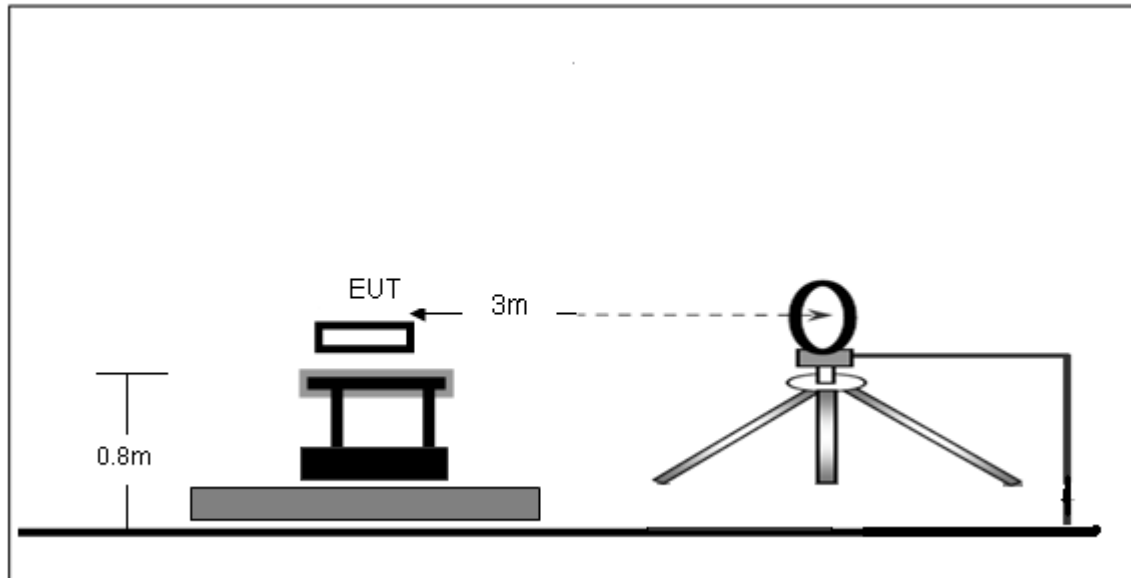
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 DEVIATION FROM TEST STANDARD

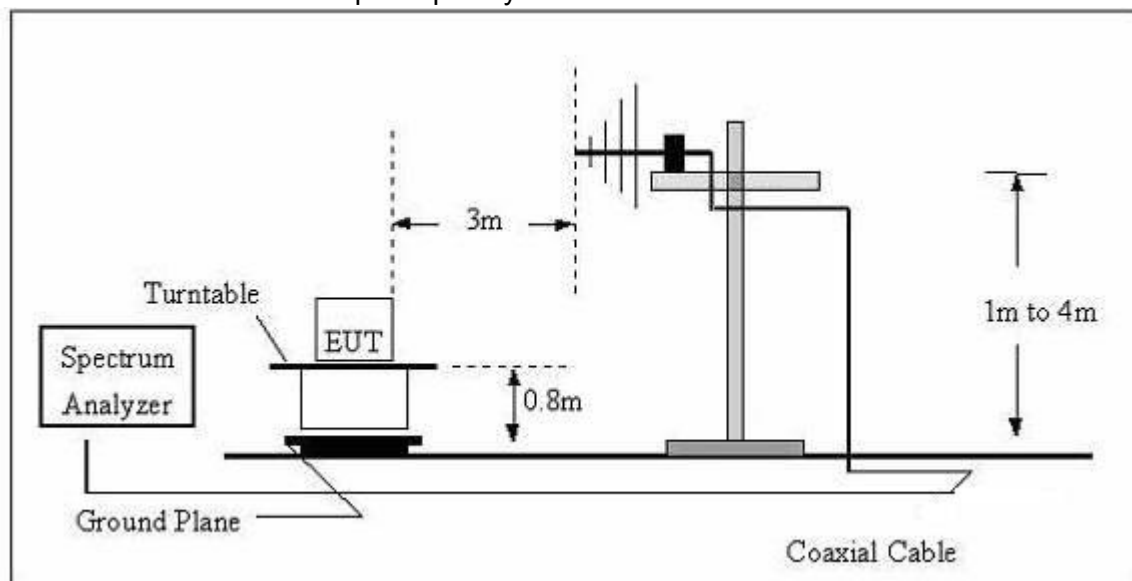
No deviation

3.2.4 TEST SETUP

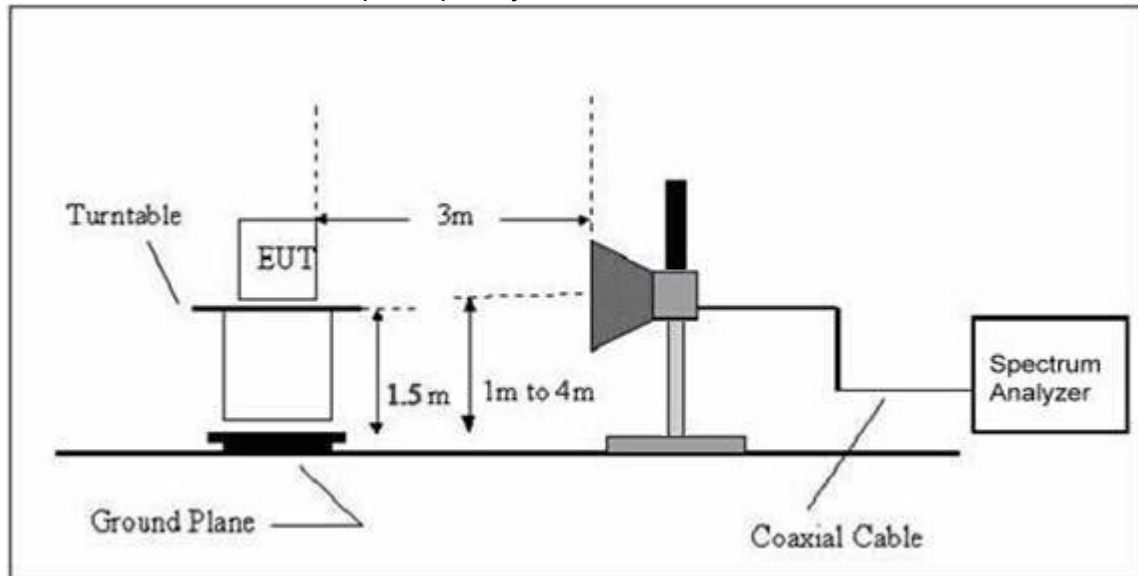
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



3.2.6 TEST RESULTS

Radiated Spurious Emission (Below 30MHz)

EUT :	Speedlite	Model Name :	SN910EX-RF
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Polarization :	---
Test Voltage :	DC 6V		
Test Mode :	TX		

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	PASS
--	--	--	--	PASS

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance/test distance})$ (dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.



Radiated Spurious Emission (Between 30MHz – 1GHz)

EUT :	Speedlite	Model Name :	SN910EX-RF
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Polarization :	Horizontal
Test Voltage :	DC 6V		
Test Mode : (Worst)	TX Low Channel		

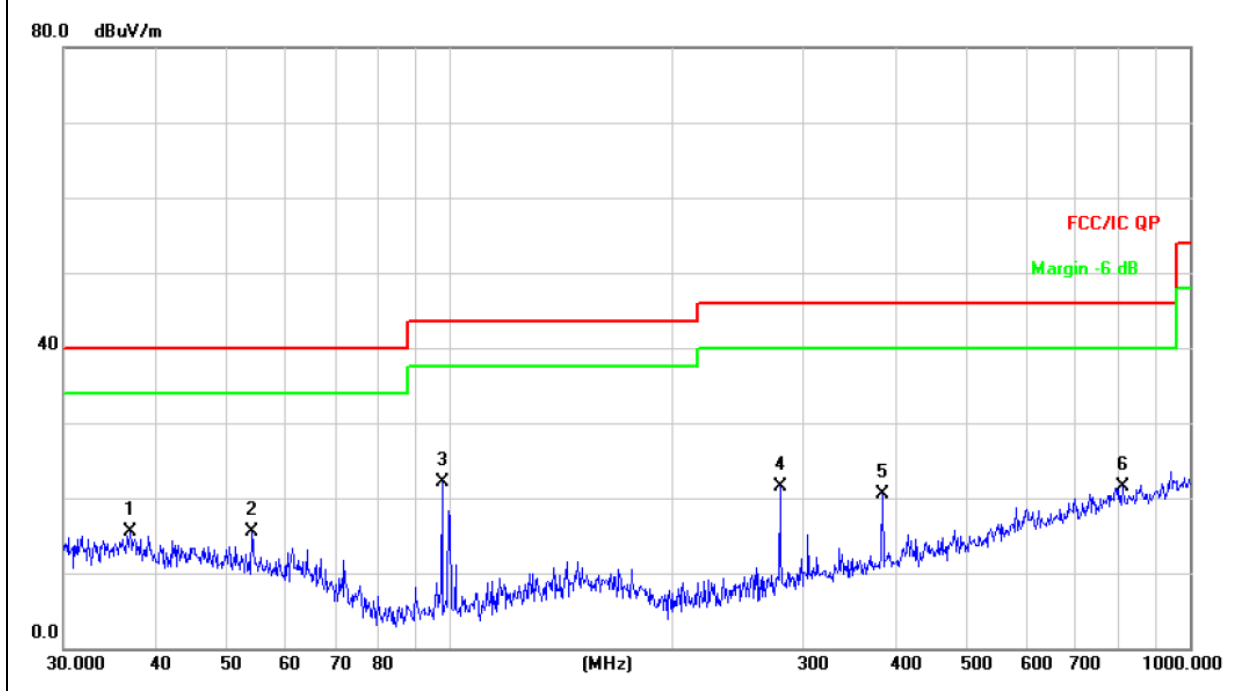
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		36.8953	24.26	-8.67	15.59	40.00	-24.41	QP		
2		53.8818	26.50	-10.93	15.57	40.00	-24.43	QP		
3	*	97.4560	38.83	-16.76	22.07	43.50	-21.43	QP		
4		279.0436	34.69	-13.13	21.56	46.00	-24.44	QP		
5		383.9318	31.06	-10.57	20.49	46.00	-25.51	QP		
6		810.2654	23.92	-2.41	21.51	46.00	-24.49	QP		

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Pretest all mode, the data only show the worst mode.

If peak level comply with Quasi-Peak limit, then the Quasi-Peak level is deemed to comply with Quasi-Peak limit.





EUT :	Speedlite	Model Name :	SN910EX-RF
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Polarization :	Vertical
Test Voltage :	DC 6V		
Test Mode : (Worst)	TX Low Channel		

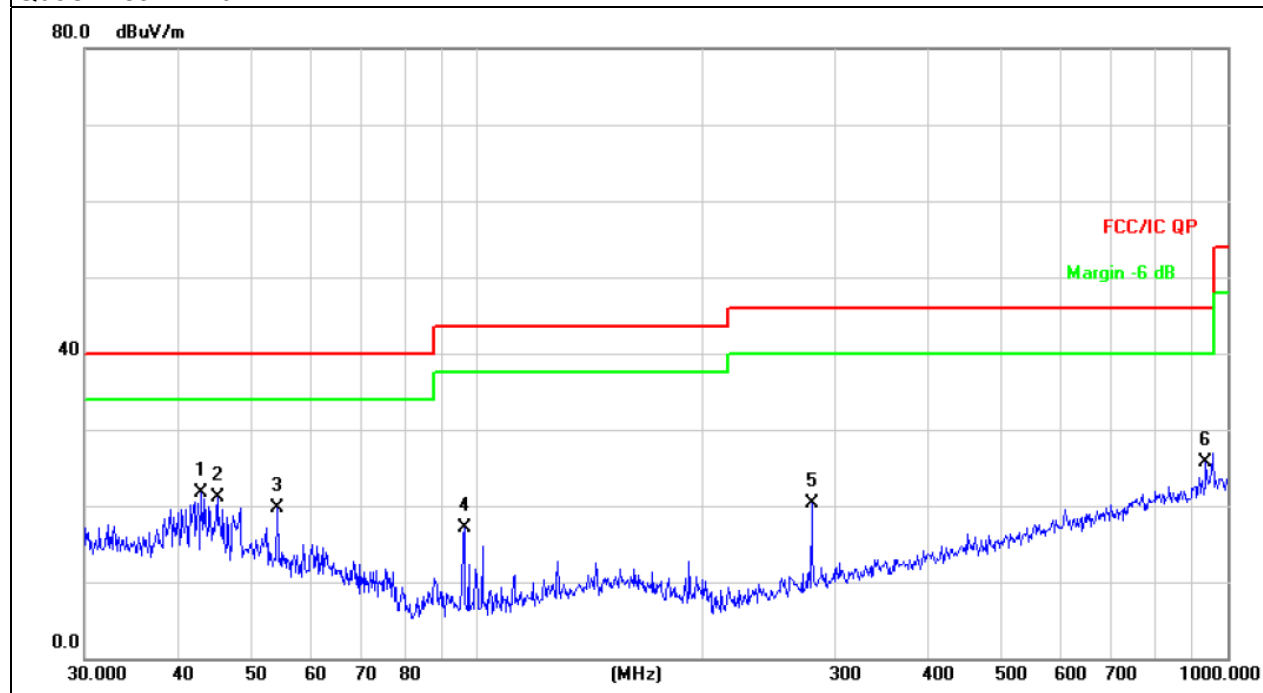
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	42.8998	30.89	-9.21	21.68	40.00	-18.32	QP		
2		45.0583	30.53	-9.48	21.05	40.00	-18.95	QP		
3		54.2610	30.73	-11.00	19.73	40.00	-20.27	QP		
4		96.0986	33.93	-16.90	17.03	43.50	-26.47	QP		
5		279.0436	33.43	-13.13	20.30	46.00	-25.70	QP		
6		935.5463	26.52	-0.78	25.74	46.00	-20.26	QP		

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Pretest all mode, the data only show the worst mode.

If peak level comply with Quasi-Peak limit, then the Quasi-Peak level is deemed to comply with Quasi-Peak limit.





Radiated Spurious Emission (1GHz to 10th harmonics)

	Freq.	Receiver Reading	Detector	Polar	Corrected Factor	Emission Level	Limit	Result
	(MHz)	(dBμV)	(PK/QP/Ave)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	
Lower Channel 2415MHz	2415.00	104.29	PK	H	1.42	105.71	114.00	Pass
	2415.00	89.91	Ave	H	1.42	91.33	94.00	Pass
	4830.00	58.35	PK	H	-0.98	57.37	74.00	Pass
	4830.00	49.26	Ave	H	-0.98	48.28	54.00	Pass
	2415.00	103.20	PK	V	1.42	104.62	114.00	Pass
	2415.00	89.18	Ave	V	1.42	90.60	94.00	Pass
	4830.00	59.37	PK	V	-0.98	58.39	74.00	Pass
	4830.00	47.78	Ave	V	-0.98	46.80	54.00	Pass
	2422.00	104.13	PK	H	0.73	104.86	114.00	Pass
	2422.00	89.43	Ave	H	0.73	90.16	94.00	Pass
Middle Channel 2422MHz	4844.00	55.15	PK	H	-1.82	53.33	74.00	Pass
	4844.00	44.18	Ave	H	-1.82	42.36	54.00	Pass
	2422.00	102.92	PK	V	0.73	103.65	114.00	Pass
	2422.00	87.84	Ave	V	0.73	88.57	94.00	Pass
	4844.00	55.46	PK	V	-1.82	53.64	74.00	Pass
	4844.00	44.05	Ave	V	-1.82	42.23	54.00	Pass
	2429.00	101.53	PK	H	0.69	102.22	114.00	Pass
	2429.00	87.10	Ave	H	0.69	87.79	94.00	Pass
Upper Channel 2429MHz	4858.00	51.81	PK	H	-1.77	50.04	74.00	Pass
	4858.00	42.90	Ave	H	-1.77	41.13	54.00	Pass
	2429.00	100.70	PK	V	0.69	101.39	114.00	Pass
	2429.00	86.38	Ave	V	0.69	87.07	94.00	Pass
	4858.00	53.96	PK	V	-1.77	52.19	74.00	Pass
	4858.00	43.10	Ave	V	-1.77	41.33	54.00	Pass

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Emission Level = Meter Reading + Factor

Margin = Emission Level - Limit

Other harmonics emissions are lower than 20dB below the allowable limit.

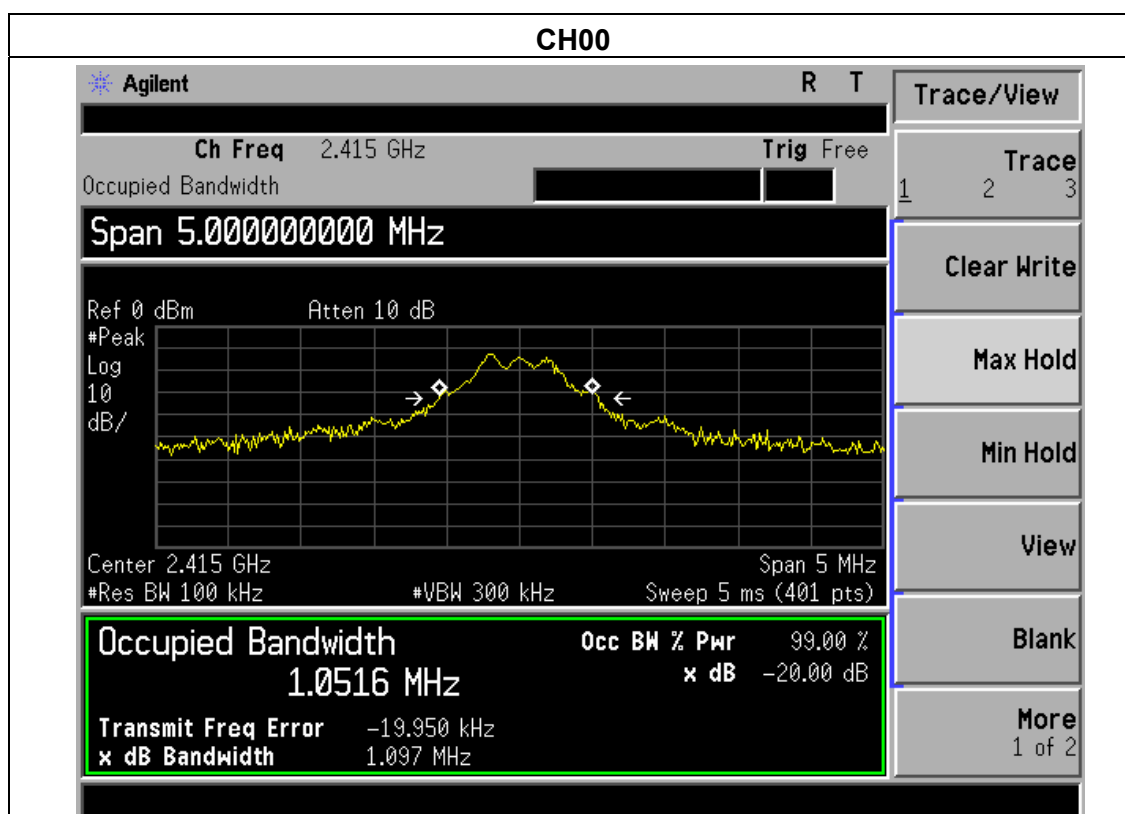


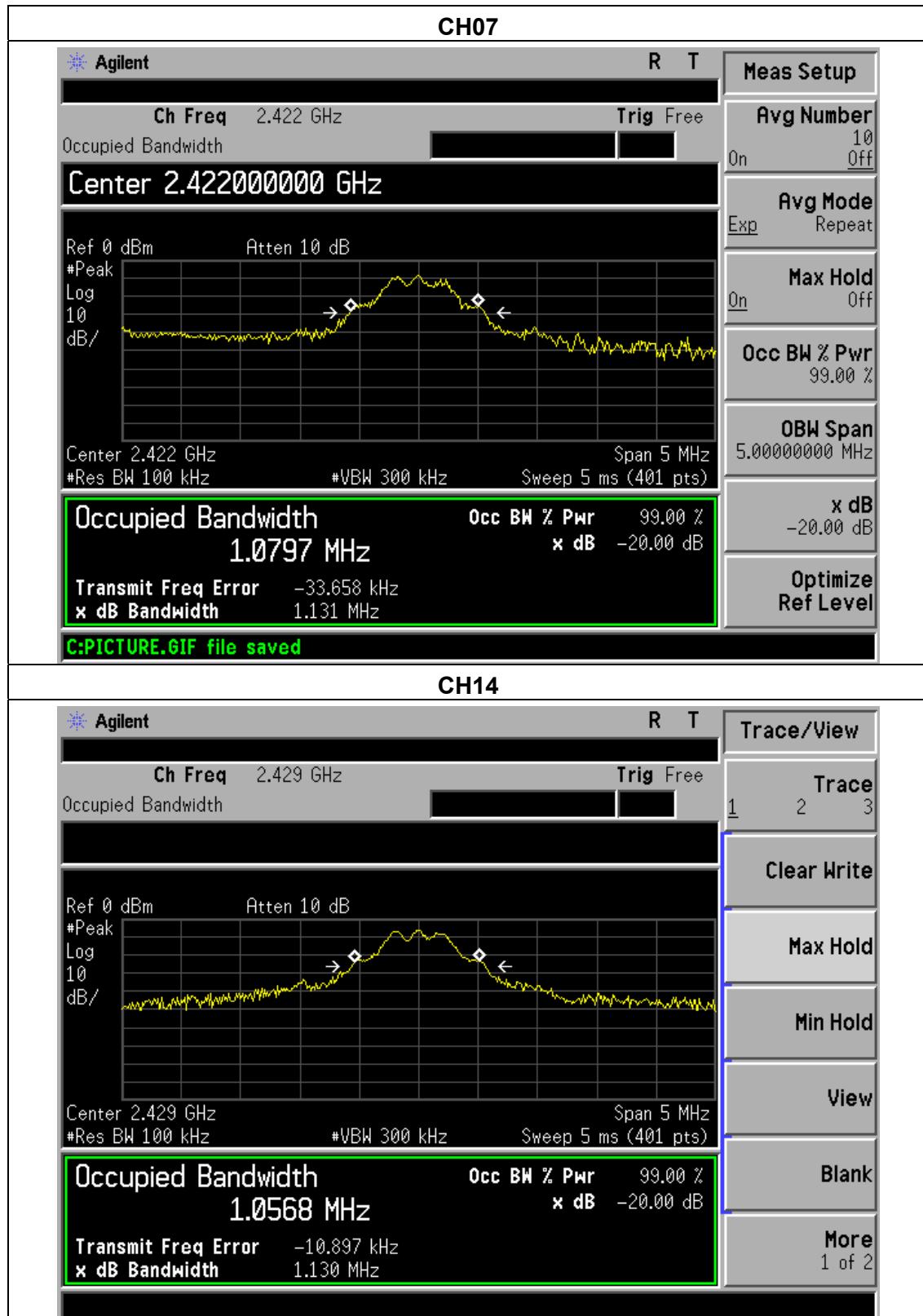


4.1.5 TEST RESULTS

EUT :	Speedlite	Model Name :	SN910EX-RF
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 6V
Test Mode :	CH00 / CH07 /CH14		

Frequency	20dB Bandwidth (MHz)	Result
2415 MHz	1.097	PASS
2422 MHz	1.131	PASS
2429 MHz	1.130	PASS







5. BANDWIDTH OF FREQUENCY BAND EDGE

APPLICABLE STANDARD

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 25GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 1.5 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.
- f. For the radiated emission test above 1GHz:
Place the measurement antenna 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 measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- g Spectrum Setting : RBW= 1MHz, VBW=3MHz, Sweep time = Auto for peak
RBW= 1MHz, VBW=10Hz, Sweep time = Auto for average

Note:

Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

5.1 DEVIATION FROM STANDARD

No deviation.

5.2 TEST SETUP

5.3 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



5.4 TEST RESULTS

EUT :	Speedlite	Model Name :	SN910EX-RF
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 6V
Test Mode :	CH00/ CH14		

Frequency (MHz)	Antenna polarization (H/V)	Emission (dBuV/m)	Band edge Limit (dBuV/m)		Result
		PK	PK	AV	
<2400	H	51.58	74.00	54.00	Pass
<2400	V	50.81	74.00	54.00	Pass
>2483.5	H	50.68	74.00	54.00	Pass
>2483.5	V	51.26	74.00	54.00	Pass
<2400	H	50.87	74.00	54.00	Pass
<2400	V	50.61	74.00	54.00	Pass
>2483.5	H	50.91	74.00	54.00	Pass
>2483.5	V	51.36	74.00	54.00	Pass
<2400	H	51.41	74.00	54.00	Pass
<2400	V	50.89	74.00	54.00	Pass
>2483.5	H	50.76	74.00	54.00	Pass
>2483.5	V	51.42	74.00	54.00	Pass
<2400	H	50.65	74.00	54.00	Pass
<2400	V	50.28	74.00	54.00	Pass
>2483.5	H	50.17	74.00	54.00	Pass
>2483.5	V	49.92	74.00	54.00	Pass

If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.



6. ANTENNA REQUIREMENT

6.1 STANDARD REQUIREMENT

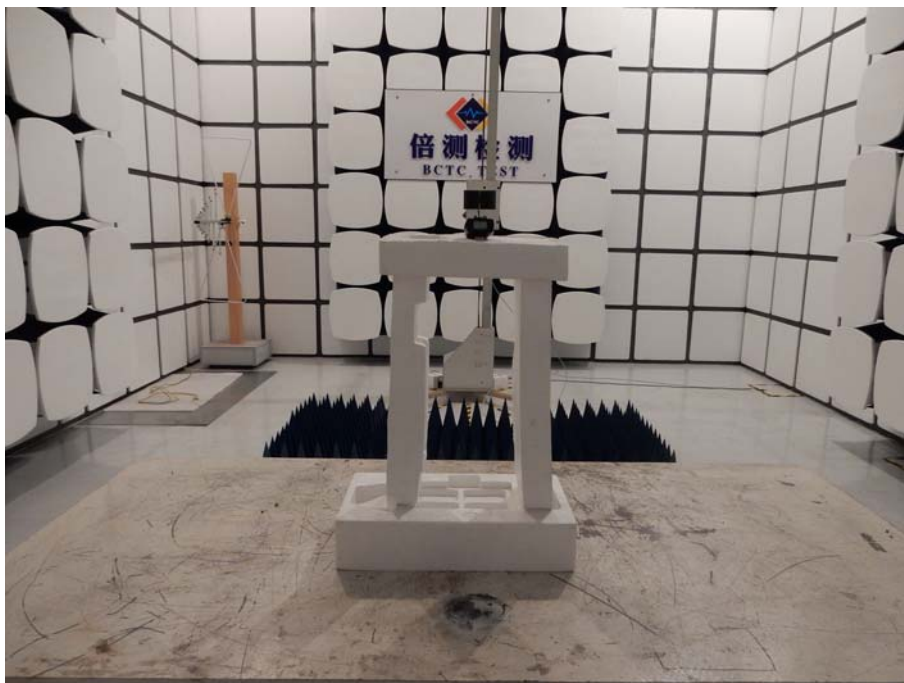
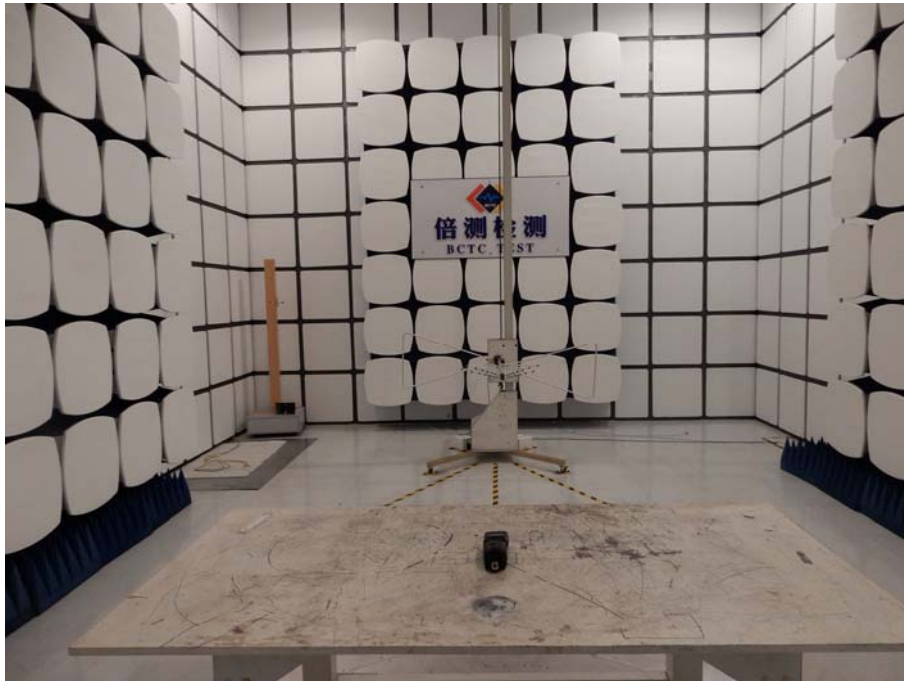
15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

6.2 EUT ANTENNA

The EUT antenna is internal antenna. It complies with the standard requirement.

7. EUT TEST PHOTO

Radiated Measurement Photos



8. PHOTO OF THE EUT



