

Report No.: KSEM210500074301

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# **Cover Page**

# RF REPORT

KSEM2105000743CR Application No.: FCC ID: 2ADTD-K3Y501SXRM

**Applicant:** Hangzhou Hikvision Digital Technology Co., Ltd.

**Address of Applicant:** No.555 Qianmo Road, Binjiang District Hangzhou 310052, China

Manufacturer: Hangzhou Hikvision Digital Technology Co., Ltd.

**Address of Manufacturer:** No.555 Qianmo Road, Binjiang District Hangzhou 310052, China

1. Hangzhou Hikvision Technology Co., Ltd. **Factory:** 2. Hangzhou Hikvision Electronics Co., Ltd.

3. Hangzhou Hikvision Digital Technology Co., Ltd.

4. Chongging Hikvision technology Co., Ltd

Address of Factory: 1.No.700, Dongliu Road, Binjiang District, Hangzhou City, Zhejiang,

310052. China

2.No.299, Qiushi Road, Tonglu Economic Development Zone, Tonglu

County, Hangzhou, Zhejiang, 310052, China.

3.No.555 Qianmo Road, Binjiang District Hangzhou 310052, China 4.NO.118.Haikang Road, Area C, Jiangiao Industrial Park, Dadukou

District, Chongqing, 401325, China

**Equipment Under Test (EUT):** 

**EUT Name:** Flap Barrier Model No.: Refer page 2¤

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

Trade mark: **HIKVISION** 

47 CFR Part 15, Subpart C 15.231 Standard(s):

2021-12-24 **Date of Receipt:** 

2021-12-25 to 2021-12-28 Date of Test:

2021-12-29 Date of Issue:

Pass\* **Test Result:** 

Eric Lin Laboratory Manager



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.





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#### Model No:

DS-K3Y501SX-R/M,DS-K3Y501SX-L1,DS-K3Y501SX-L1/M,DS-K3Y501SX-L1/E,DS-K3Y501SX-L1/B,DS-K3Y501SX-L1/B,DS-K3Y501SX-L1/B,DS-K3Y501SX-L1/B,DS-K3Y501SX-L1/B,DS-K3Y501SX-L1/B,DS-K3Y501SX-L1/B,DS-K3Y501SX-L1/B,DS-K3Y501SX-M1/B,DS-K3Y501SX-M1/B,DS-K3Y501SX-M1/B,DS-K3Y501SX-M1/B,DS-K3Y501SX-M1/B,DS-K3Y501SX-M1/B,DS-K3Y501SX-M1/B,DS-K3Y501SX-M1/B,DS-K3Y501SX-M1/B,DS-K3Y501SX-M1/B,DS-K3Y501SX-M1/B,DS-K3Y501SX-M1/B,DS-K3Y501SX-M1/B,DS-K3Y501SX-M1/B,DS-K3Y501SX-M1/B,DS-K3Y501SX-M1/B,DS-K3Y501SX-M1/B,DS-K3Y501SX-M1/B,DS-K3Y501SX-RCKV,DS-K3Y501SX-RUNS,DS-K3Y501SX-RCKV,DS-K3Y501SX-RUNS,DS-K3Y501SX-RKVO,DS-K3Y501SX-RUNS



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Revision Record								
Version Description Date Remark								
00	Original	2021-12-29	1					

Authorized for issue by:			
	Damon zhou		
	Damon Zhou / Project Engineer	-	
	Essa Li		
	Eric Lin /Reviewer	_	



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# 2 Test Summary

Radio Spectrum Technical Requirement								
Item	Standard	Method	Requirement Res					
Antenna Requirement	47 CFR Part 15,	N/A	47 CFR Part 15,	Pass				
Antenna Requirement	Subpart C 15.231	IN/A	Subpart C 15.203					

N/A: Not applicable

Radio Spectrum Matter Part								
Item	Standard	Method	Requirement	Result				
Conducted Emission	Part 15.207	ANSI C63.10 (2013) Section 6.2	N/A	Pass				
20dB Bandwidth	47 CFR Part 15, Subpart C 15.231	ANSI C63.10 (2013) Section 6.9	47 CFR Part 15, Subpart C 15.231(c)	Pass				
Dwell Time (15.231(a))	47 CFR Part 15, Subpart C 15.231	ANSI C63.10 (2013) Section 7.8.4	47 CFR Part 15, Subpart C 15.231(a)	Pass				
Field Strength of the Fundamental Signal (15.231(b))	47 CFR Part 15, Subpart C 15.231	ANSI C63.10 (2013) Section 6.5	N/A	Pass				
Radiated Emissions	47 CFR Part 15, Subpart C 15.231	ANSI C63.10 (2013) Section 6.4&6.5&6.6	N/A	Pass				

N/A: Not applicable

#### **Declaration of EUT Family Grouping:**

Note 1: There are series models mentioned in this report, and they are the identical in electrical and electronic characters. Only the model DS-K3Y501SX-R/M, DS-K3Y501SX-R/E was tested since their differences were the model number and appearance.

Note 2: The product built into a certified module(model DS-K3Y501SX-R/E contains DS-K1102AEK or model DS-K3Y501SX-R/M contains DS-K1102AMK), the test data of different modules has been recorded in the report.



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# 4 General Information

# **4.1** General Description of E.U.T.

Power supply:	AC 100-240V~ 50/60Hz
Test voltage:	AC 120V/60Hz

# 4.2 Technical Specifications:

Modulation Type	2GFSK
Number of Channels	1
Operation Frequency	433.60MHz
Antenna Type	PCB Antenna

# 4.3 Description of Support Units

The EUT has been tested independently



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### 4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

# 4.5 Test Facility

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

#### • CNAS (No. CNAS L4354)

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

#### A2LA (Certificate No. 2541.01)

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

#### • FCC (Designation Number: CN1172)

Compliance Certification Services Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

### • ISED (CAB Identifier: CN0072)

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development (ISED) Canada as an accredited testing laboratory.

CAB Identifier: CN0072.

#### • VCCI (Member No.: 1938)

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600,C-11707, T-11499, G-10216 respectively.



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# 4.6 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	±8.4 x 10-8
2	Timeout	±2s
3	Occupied Bandwidth	±3%
4	DE Dadiated newer	±4.6dB (Below 1GHz)
4	RF Radiated power	±4.1dB (Above 1GHz)
		±4.2dB (Below 30MHz)
5	Dedicted Courieus emission test	±4.4dB (30MHz-1GHz)
5	Radiated Spurious emission test	±4.8dB (1GHz-18GHz)
		±5.2dB (Above 18GHz)
6	Temperature test	±1°C
7	Humidity test	±3%
8	Supply voltages	±1.5%
9	Time	±3%

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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# 5 Equipments Used during Test

Conducted Emission at Mains Terminals (150kHz-30MHz)

Item	Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal. Due Date
Cond	ucted Emission at Mains Terminals (150k)	Hz-30MHz)	·			
1	EMI Test Receive	R&S	ESCI	100781	02/01/2021	01/31/2022
2	LISN	R&S	ENV216	101604	10/12/2021	10/11/2022
3	LISN	Schwarzbeck	NNLK 8129	8129-143	10/12/2021	10/11/2022
4	Pulse Limiter	R&S	ESH3-Z2	100609	02/01/2021	01/31/2022
5	CE test Cable	Thermax	/	14	10/16/2021	10/15/2022
6	Test Software	Farad	EZ-EMC	CCS-03A1	N.C.R	N.C.R
RF Ra	adiated Test					
Item	Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal. Due Date
1	Spectrum Analyzer	R&S	FSV40	101493	10/11/2021	10/10/2022
2	Signal Generator	Agilent	E8257C	MY43321570	10/18/2021	10/17/2022
3	Loop Antenna	Schwarzbeck	HXYZ9170	9170-108	02/22/2021	02/21/2022
4	Bilog Antenna	TESEQ	CBL 6112D	35403	06/21/2021	06/20/2023
5	Bilog Antenna	SCHWARZBECK	VULB9160	9160-3342	04/13/2021	04/12/2023
6	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	267	10/26/2020	10/25/2022
7	Horn-antenna(1-18GHz)	ETS-LINDGREN	3117	00143290	02/22/2021	02/21/2023
8	Pre-Amplifier(30MHz~18GHz)	LNA	/	/	04/15/2021	04/14/2022
9	Low Pass Filter	MICRO-TRONICS	VLFX-950	RV142900829	N.C.R	N.C.R
10	High Pass Filter	Mini-Circuits	VHF-1200	15542	N.C.R	N.C.R
11	RE test cable	/	RE01-RE04	/	04/15/2021	04/14/2022
12	Software	Faratronic	EZ_EMC-v 3A1	N/A	N/A	N/A



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# 6 Test results and Measurement Data

# **6.1** Antenna Requirement

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.

The antenna is PCB Antenna and no consideration of replacement.

Antenna location: Refer to Appendix (Internal Photos)



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# 7 Radio Spectrum Matter Test Results

# 7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207 Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency of Emission	Conducted Limit (dBμV)						
(MHz)	Quasi-peak	Average					
0.15-0.5	66 to 56*	56 to 46*					
0.5-5	56	46					
5-30	60	50					
*Decreases with the logarithm of the frequency.							

### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar Pretest these a: TX mode\_Keep the EUT in transmitting with modulation mode (DS-K3Y501SX-

modes to find R/M).

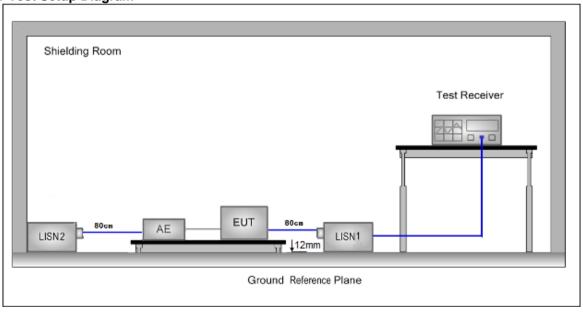
the worst case: b: TX mode\_Keep the EUT in transmitting with modulation mode (DS-K3Y501SX-

R/E).

The worst case a: TX mode\_Keep the EUT in transmitting with modulation mode (DS-K3Y501SX-

for final test: R/M).

#### 7.1.2 Test Setup Diagram





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#### 7.1.3 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a  $50 \text{ohm}/50 \mu\text{H}$  + 5 ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 12mm above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

  Remark: LISN=Read Level+ Cable Loss+ LISN Factor.



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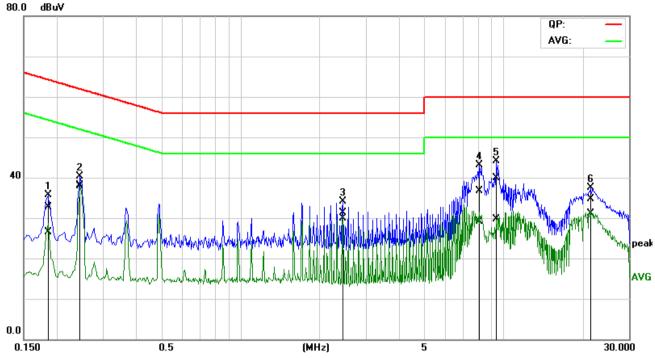




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Mode: a; Line: Live Line



No.	Frequency	QuasiPeak	Average	Correction	QuasiPeak	Average	QuasiPeak	Average	QuasiPeak	Average	Remark
		reading	reading	factor	result	result	limit	limit	margin	margin	
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1844	13.32	7.06	19.46	32.78	26.52	64.28	54.29	-31.50	-27.77	Pass
2*	0.2464	18.57	18.45	19.47	38.04	37.92	61.87	51.88	-23.83	-13.96	Pass
3	2.4485	11.74	10.37	19.62	31.36	29.99	56.00	46.00	-24.64	-16.01	Pass
4	8.0824	16.80	9.22	19.90	36.70	29.12	60.00	50.00	-23.30	-20.88	Pass
5	9.4446	19.91	9.76	19.96	39.87	29.72	60.00	50.00	-20.13	-20.28	Pass
6	21.4000	14.43	10.91	20.28	34.71	31.19	60.00	50.00	-25.29	-18.81	Pass



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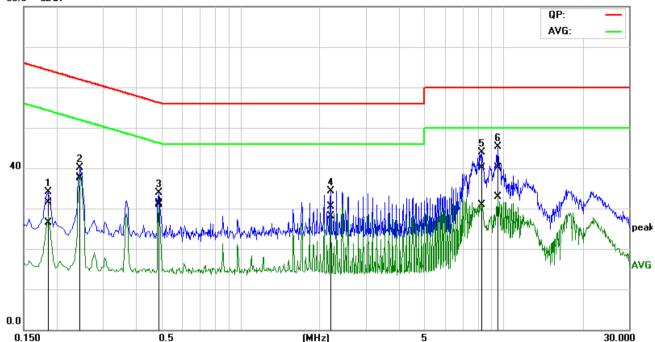


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Mode: a; Line: Neutral Line





No.	Frequency	QuasiPeak reading	Average reading	Correction	QuasiPeak result	Average result	QuasiPeak Iimit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1859	11.99	7.00	19.43	31.42	26.43	64.21	54.22	-32.79	-27.79	Pass
2*	0.2449	18.25	18.16	19.44	37.69	37.60	61.93	51.93	-24.24	-14.33	Pass
3	0.4907	11.76	11.48	19.51	31.27	30.99	56.16	46.16	-24.89	-15.17	Pass
4	2.2022	10.94	8.57	19.58	30.52	28.15	56.00	46.00	-25.48	-17.85	Pass
5	8.2388	20.15	10.94	19.89	40.04	30.83	60.00	50.00	-19.96	-19.17	Pass
6	9.5312	20.18	12.98	19.94	40.12	32.92	60.00	50.00	-19.88	-17.08	Pass



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### 7.2 20dB Bandwidth

47 CFR Part 15, Subpart C 15.231(c) **Test Requirement** Test Method: ANSI C63.10 (2013) Section 6.9

Limit: The bandwidth of the emission shall be no wider than 0.25% of the center

> frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB

down from the modulated carrier.

Frequency Range (MHz)	Limit
70-900	No wider than 0.25% of the center frequency
Above 900	No wider than 0.5% of the center frequency

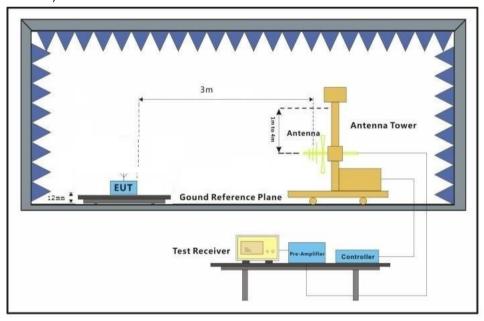
### 7.2.1 E.U.T. Operation

**Operating Environment:** 

Temperature: 22 50 % RH Atmospheric Pressure: 1020 mbar Humidity: Test mode a: TX mode\_Keep the EUT in transmitting with modulation mode (DS-K3Y501SX-

R/M).

**Test Setup:** 



**Test Results: Pass** 



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#### Measurement Data:

Frequency (MHz)	cy (MHz) 20dB bandwidth (kHz) Limit (kHz)		Results
433.60	47.76	1084	Pass

#### Test plot as follows: Spectrum Ref Level 115.00 dBµV RBW 1 kHz Att 25 dB • SWT 50 ms • VBW 3 kHz Mode Sweep ●1Pk Max D3[1] -0.60 dE 110 dBuV-47.760 kHz 85.04 dBµV M1[1] 100 dBµV-433.574270 MHz 90 dBµV-D1 84,200 dBuV 80 dBµV-70 dBµV-60 dBµV-50 dBµV-40 dBµV www , Morani 30 dBµV-20 dBµV-CF 433.598 MHz 691 pts Span 200.0 kHz Marker **Function Function Result** Type Ref | Trc X-value Y-value 433.57427 MHz 85.04 dBuV M1 433.57774 MHz 104.20 dBµV М2 1 М1 D3 47.76 kHz -0.60 dB 1



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### 7.3 Dwell Time

Test Requirement 47 CFR Part 15, Subpart C 15.231(a)
Test Method: ANSI C63.10 (2013) Section 7.8.4

Limit:

Device type	Limit	
Moneyally an arotal transmitter	The switch automatically deactivate the transmitter	
Manually operated transmitter	within not more than 5 seconds of being released	
A toward and a street and a street	Cease transmission within 5 seconds after	
Automatically actived transmitter	activation	
Periodic transmissions to determine system integrity of	The total transmission time does not exceed 2	
transmitters used in security or safety applications	seconds per hour	

# 7.3.1 E.U.T. Operation

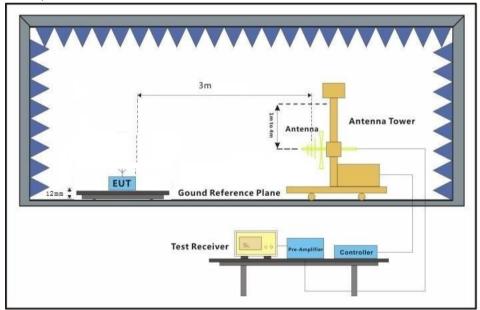
**Operating Environment:** 

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar

Test mode a: TX mode\_Keep the EUT in transmitting with modulation mode (DS-K3Y501SX-

R/M).

**Test Setup:** 



Limit: 15.231 (a): Not more than 5 seconds

Test Results: Pass



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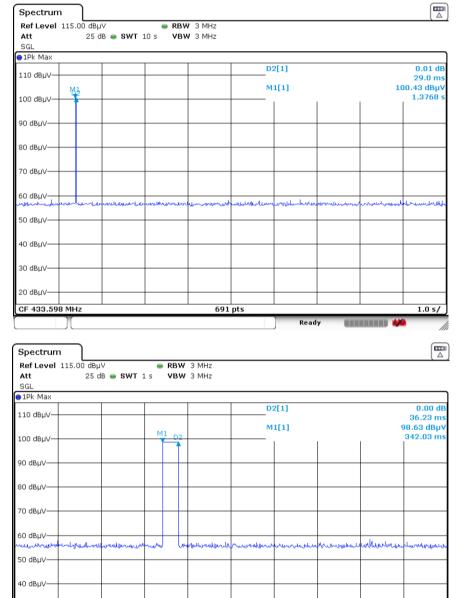
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#### **Measurement Data:**

Test item	Limit (s)	Results	
Transmission Duration	≤ 5s	Pass	

#### Test plot as follows:



691 pts



30 dBµV 20 dBµV СЕ 433.598 MHz

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100.0 ms/



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# 7.4 Spurious Emissions

Test frequency range: 9KHz - 5GHz

**Test Site:** Measurement Distance: 3m

**Receiver Setup:** 

Limit:

RBW VBW Detector Remark Frequency 1KHz 0.009MHz-0.015MHz Quasi-peak 200Hz Quasi-peak 30KHz 0.015MHz-30MHz Quasi-peak 9kHz Quasi-peak 30MHz-1GHz Quasi-peak 120 kHz 300KHz Quasi-peak Peak 1MHz 3MHz Peak Above 1GHz Peak 1MHz 10Hz Average Measurement Field strength Limit Remark Frequency (Spurious Emissions) (microvolt/meter) (dBuV/m) distance (m) 0.009MHz-0.490MHz 2400/F(kHz) Quasi-peak 300 0.490MHz-1.705MHz 24000/F(kHz) 30 Quasi-peak 1.705MHz-30MHz 30 Quasi-peak 30 3 30MHz-88MHz 100 40.0 Quasi-peak 150 3 88MHz-216MHz 43.5 Quasi-peak 216MHz-960MHz 200 46.0 Quasi-peak 3 960MHz-1GHz 500 3 54.0 Quasi-peak 54.0 Average 3 Above 1GHz 500 74.0 Peak 3 Limit (dBuV/m @3m) Frequency Remark 80.83 Average Value 433.09 - 434.61MHz 100.83 Peak Value

Limit: (Field strength of the fundamental signal)

**Test Procedure:** 

- The EUT was placed on the top of a rotating table 12mm above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- The radiation measurements are performed in X, Y, Z axis positioning. And



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found the Z axis positioning which it is worse case, only the test worst case mode is recorded in the report.

Scan from 9kHz to 5GHz, below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

#### 7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar a: TX mode\_Keep the EUT in transmitting with modulation mode (DS-K3Y501SX-Pretest these

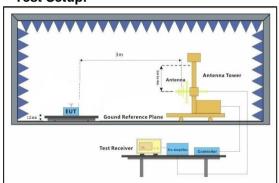
modes to find

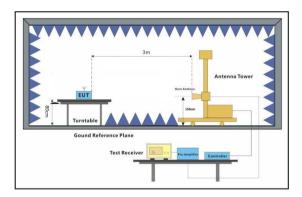
b: TX mode\_Keep the EUT in transmitting with modulation mode (DS-K3Y501SXthe worst case:

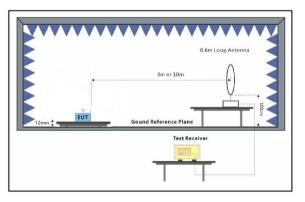
The worst case a: TX mode Keep the EUT in transmitting with modulation mode (DS-K3Y501SX-

for final test: R/M).

### **Test Setup:**







**Test Results: Pass** 

For Spurious Emissions test above 1GHz, in order to enable the EUT antenna to be

located at a height of 1.5 m above the floor, and the intentional radiator circuit

should be located at a height of at least 0.8 m above the floor in the system. We put the product on a 0.8m non-conductive support, because the antenna of the product

is located on the upper part of the product.



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#### 7.4.2 Field Strength of the Fundamental Signal

#### Mode a

Test channel	Freq. (MHz)	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
Channel 1	433.60	88.54	100.83	-12.29	Peak	Vertical
		79.72	80.83	-1.11	AVG	Vertical
		87.82	100.83	-13.01	Peak	Horizontal
		79.00	80.83	-1.83	AVG	Horizontal

#### Remark:

- 1. If the Peak value below the AV Limit, the AV test doesn't perform for this submission.
- 2. Average level = Peak level Duty Cycle Factor
- 3. Duty Cycle Factor =  $20\log (Duty Cycle) = 20*\log(36.23/100) = -8.82dB$



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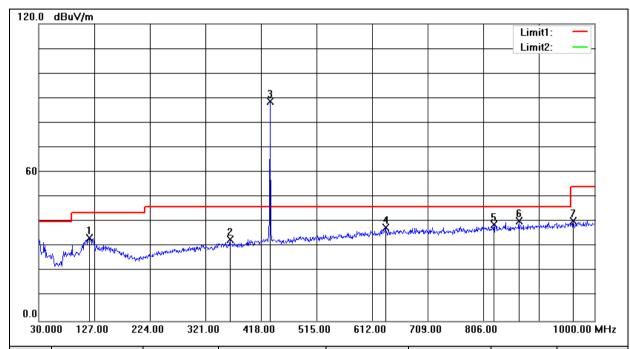
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### 7.4.3 Spurious Emissions

Mode a

Below 1GHz

Vertical:



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	118.2700	14.40	19.11	33.51	43.50	-9.99	peak
2	363.6800	10.27	22.71	32.98	46.00	-13.02	peak
3	433.5200	64.47	24.07	88.54	100.83	-12.26	peak
4	635.2800	10.75	26.93	37.68	46.00	-8.32	peak
5	824.4300	10.75	27.95	38.70	46.00	-7.30	peak
6	868.0800	12.16	28.29	40.45	46.00	-5.55	peak
7	963.1400	11.09	29.27	40.36	54.00	-13.64	peak



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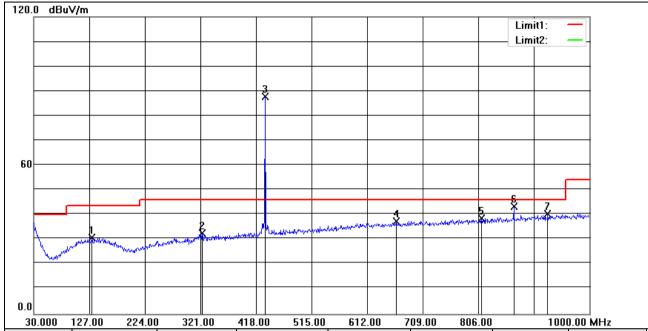




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#### Horizontal:



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	131.8500	11.19	19.55	30.74	43.50	-12.76	peak
2	323.9100	11.22	21.46	32.68	46.00	-13.32	peak
3	433.5200	63.76	24.07	87.82	100.83	-13.01	peak
4	663.4100	10.03	27.21	37.24	46.00	-8.76	peak
5	811.8200	10.53	27.89	38.42	46.00	-7.58	peak
6	868.0800	15.18	28.29	43.47	46.00	-2.53	peak
7	927.2500	11.39	29.01	40.40	46.00	-5.60	peak



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#### Above 1GHz

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	polarization
1	1455.000	55.20	-17.75	37.45	54.00	-16.55	peak	Vertical
2	1725.000	56.45	-17.17	39.28	54.00	-14.72	peak	Vertical
3	1945.000	56.29	-16.80	39.49	54.00	-14.51	peak	Vertical
4	1330.000	55.98	-18.32	37.66	54.00	-16.34	peak	Horizontal
5	2085.000	55.76	-16.35	39.41	54.00	-14.59	peak	Horizontal
6	2685.000	53.33	-14.20	39.13	54.00	-14.87	peak	Horizontal

#### Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
  - Final Test Level = Receiver Reading Level + Antenna Factor + Cable Factor Preamplifier Factor
- 2) If Peak Result comply with AV limit, AV Result is deemed to comply with QP limit
- 3) No any other emissions level which are attenuated less than 20dB below the limit. According to 15.31(o), the amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part. Hence there no other emissions have been reported.



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# 8 Test Setup Photographs

Refer to the < Test Setup photos-FCC>.

# 9 EUT Constructional Details

Refer to the < External Photos > & <Internal Photos >.

-- End of the Report--



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