

1 Cover Page

RF REPORT

Application No.: KSEM2107001287CR
FCC ID: 2ADTD-K3Y411X-M1M
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
Factory: 1.Hangzhou Hikvision Technology Co., Ltd.
 2.Hangzhou Hikvision Electronics Co., Ltd.
 3.Hangzhou Hikvision Digital 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

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
Standard(s) : 47 CFR Part 15, Subpart C 15.231
Date of Receipt: 2021-08-05
Date of Test: 2021-08-06 to 2021-08-30
Date of Issue: 2021-08-30

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Eric Lin
Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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Mode No:

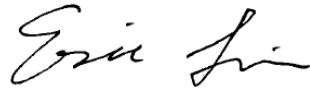
DS-K3Y411X-L1,DS-K3Y411X-L1/M,DS-K3Y411X-L1/E,DS-K3Y411X-L2,DS-K3Y411X-L2/E,DS-K3Y411X-L2/E,DS-K3Y411X-M1,DS-K3Y411X-M1/M,DS-K3Y411X-M1/E,DS-K3Y411X-M2,DS-K3Y411X-M2/M,DS-K3Y411X-M2/E,DS-K3Y411X-R,DS-K3Y411X-R/M,DS-K3Y411X-R/E,DS-K3Y411X-L1UHK,DS-K3Y411X-L1CKV,DS-K3Y411X-L1UVS,DS-K3Y411X-L1KVO,DS-K3Y411X-L1HUN,DS-K3Y411X-L2UHK,DS-K3Y411X-L2CKV,DS-K3Y411X-L2UVS,DS-K3Y411X-L2KVO,DS-K3Y411X-L2HUN,DS-K3Y411X-M1UHK,DS-K3Y411X-M1CKV,DS-K3Y411X-M1UVS,DS-K3Y411X-M1KVO,DS-K3Y411X-M1HUN,DS-K3Y411X-M2UHK,DS-K3Y411X-M2CKV,DS-K3Y411X-M2UVS,DS-K3Y411X-M2KVO,DS-K3Y411X-M2HUN,DS-K3Y411X-RUHK,DS-K3Y411X-RCKV,DS-K3Y411X-RUVS,DS-K3Y411X-RKVO,DS-K3Y411X-RHUN



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Revision Record			
Version	Description	Date	Remark
00	Original	2021-08-30	/

Authorized for issue by:			
		 <hr/> Damon Zhou / Project Engineer	
		 <hr/> Eric Lin /Reviewer	



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EMC Laboratory

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2 Test Summary

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

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-K3Y411X-M1/M, DS-K3Y411X-M1/E was tested since their differences were the model number and appearance.

Note 2: The product built into a certified module(model DS-K3Y411X-M1/E contains DS-K1102AEK or model DS-K3Y411X-M1/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

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.



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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	$\pm 8.4 \times 10^{-8}$
2	Timeout	$\pm 2s$
4	Occupied Bandwidth	$\pm 3\%$
8	RF Radiated power	$\pm 4.6dB$ (Below 1GHz)
		$\pm 4.1dB$ (Above 1GHz)
9	Radiated Spurious emission test	$\pm 4.2dB$ (Below 30MHz)
		$\pm 4.4dB$ (30MHz-1GHz)
		$\pm 4.8dB$ (1GHz-18GHz)
		$\pm 5.2dB$ (Above 18GHz)
10	Temperature test	$\pm 1^{\circ}C$
11	Humidity test	$\pm 3\%$
12	Supply voltages	$\pm 1.5\%$
13	Time	$\pm 3\%$

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
1	EMI Test Receive	R&S	ESCI	100781	02/01/2021	01/31/2022
2	LISN	R&S	ENV216	101604	10/19/2020	10/18/2021
3	LISN	Schwarzbeck	NNLK 8129	8129-143	10/19/2020	10/18/2021
4	Pulse Limiter	R&S	ESH3-Z2	100609	02/01/2021	01/31/2022
5	CE test Cable	Thermax	/	14	10/17/2020	10/16/2021
6	Test Software	Farad	EZ-EMC	CCS-03A1	N.C.R	N.C.R

RF Radiated Test

Item	Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal. Due Date
1	Spectrum Analyzer	R&S	FSV40	101493	10/19/2020	10/18/2021
2	Signal Generator	Agilent	E8257C	MY43321570	10/19/2020	10/18/2021
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 (MHz)	Conducted limit(dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

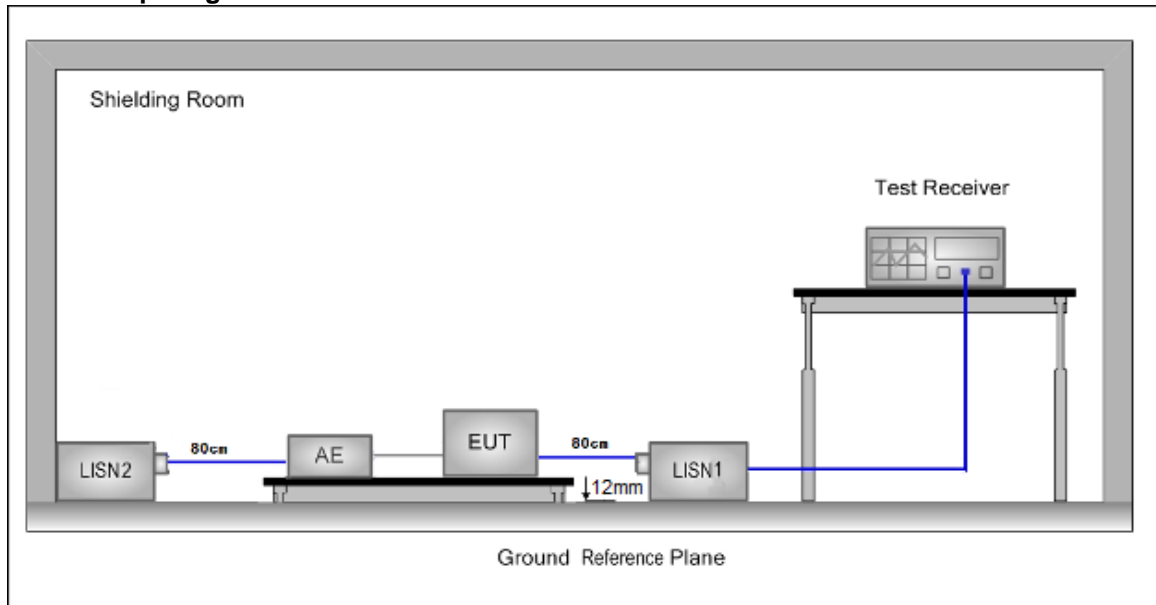
*Decreases with the logarithm of the frequency.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar
Pretest these modes to find the worst case:
a: TX mode_Keep the EUT in transmitting with modulation mode (DS-K3Y411X-M1/E).
b: TX mode_Keep the EUT in transmitting with modulation mode (DS-K3Y411X-M1/M).
The worst case for final test:
a: TX mode_Keep the EUT in transmitting with modulation mode (DS-K3Y411X-M1/E).

7.1.2 Test Setup Diagram



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7.1.3 Measurement Procedure and Data

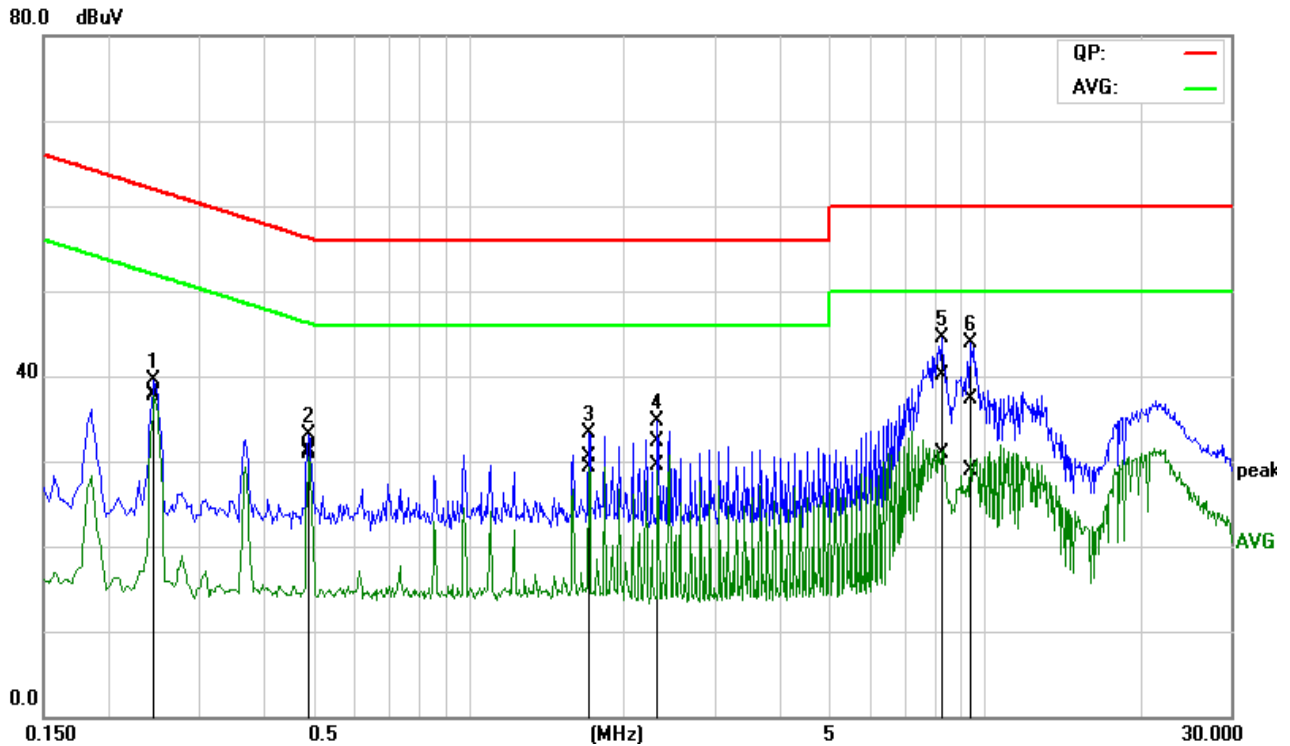
- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
 - 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected 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 0.8m 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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Mode: a; Line: Live Line



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.2468	18.42	18.31	19.47	37.89	37.78	61.86	51.86	-23.97	-14.08	Pass
2	0.4913	11.73	11.42	19.53	31.26	30.95	56.15	46.15	-24.89	-15.20	Pass
3	1.7184	10.87	9.63	19.58	30.45	29.21	56.00	46.00	-25.55	-16.79	Pass
4	2.3289	12.69	9.92	19.61	32.30	29.53	56.00	46.00	-23.70	-16.47	Pass
5	8.2417	20.22	11.02	19.91	40.13	30.93	60.00	50.00	-19.87	-19.07	Pass
6	9.4384	17.30	9.00	19.96	37.26	28.96	60.00	50.00	-22.74	-21.04	Pass

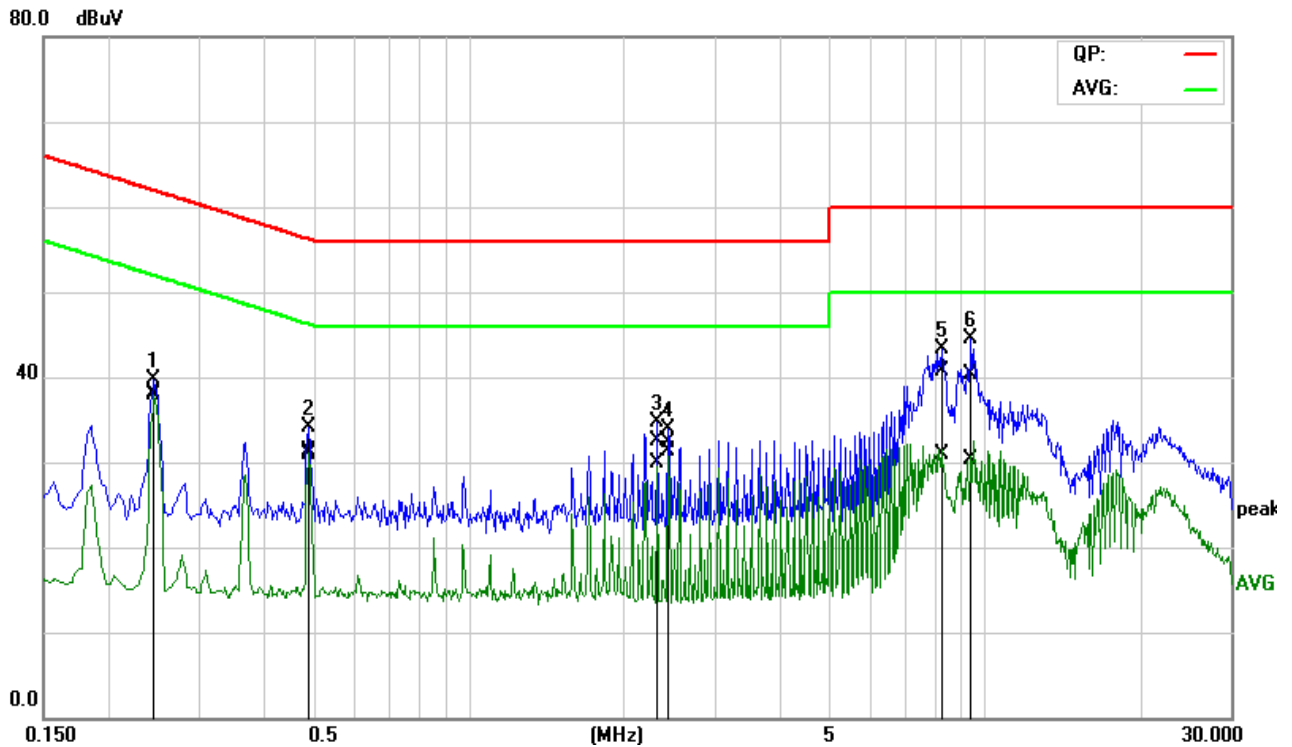


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Mode: a; Line: Neutral Line



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.2462	18.57	18.47	19.44	38.01	37.91	61.88	51.88	-23.87	-13.97	Pass
2	0.4911	11.78	11.44	19.51	31.29	30.95	56.15	46.15	-24.86	-15.20	Pass
3	2.3268	12.96	10.31	19.59	32.55	29.90	56.00	46.00	-23.45	-16.10	Pass
4	2.4505	12.75	11.61	19.60	32.35	31.21	56.00	46.00	-23.65	-14.79	Pass
5	8.2417	20.86	11.09	19.89	40.75	30.98	60.00	50.00	-19.25	-19.02	Pass
6	9.4479	20.39	10.45	19.94	40.33	30.39	60.00	50.00	-19.67	-19.61	Pass



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7.2 20dB Bandwidth

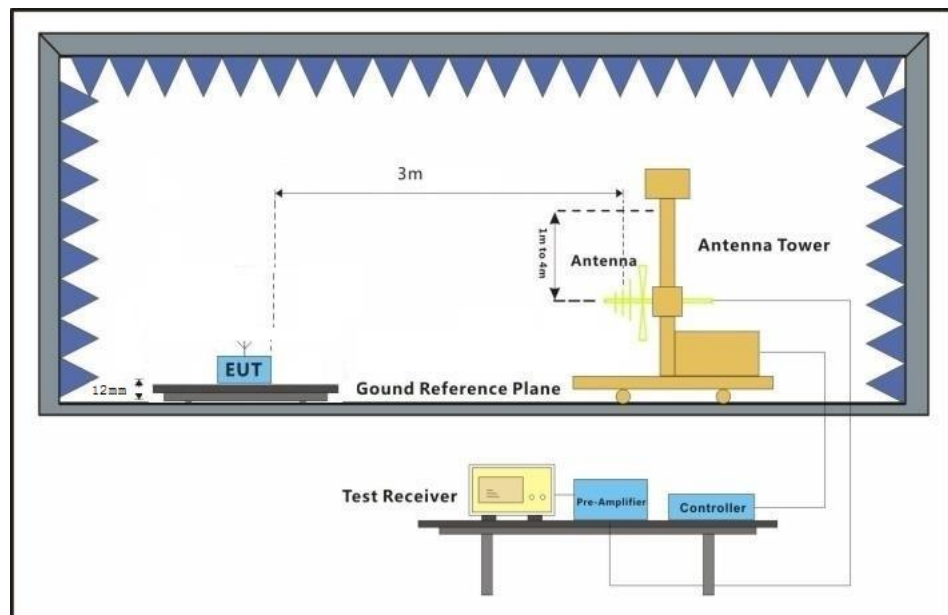
Test Requirement 47 CFR Part 15, Subpart C 15.231(c)
 Test Method: ANSI C63.10 (2013) Section 6.9
 Limit: The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be 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 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar
 Test mode a: TX mode_Keep the EUT in transmitting with modulation mode (DS-K3Y411X-M1/E).

Test Setup:



Test Results: Pass



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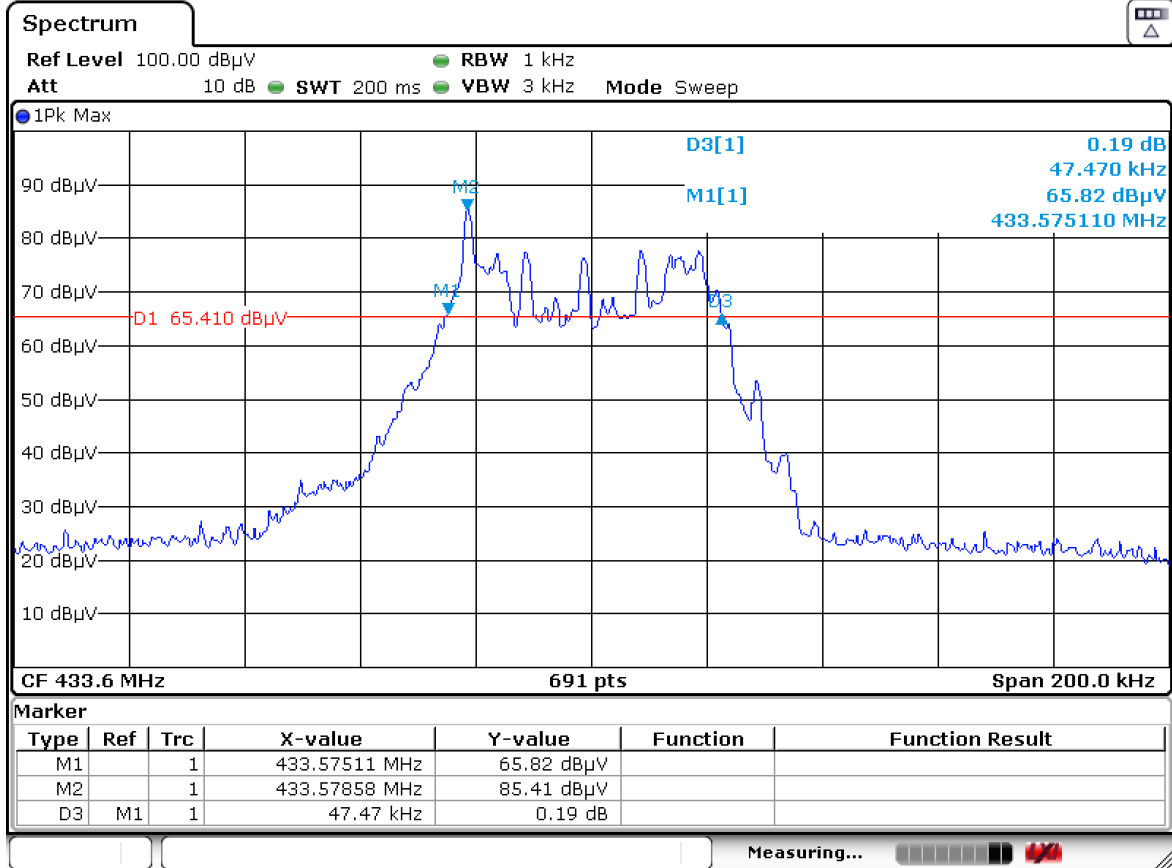
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Measurement Data:

Frequency (MHz)	20dB bandwidth (kHz)	Limit (kHz)	Results
433.60	47.47	1084	Pass

Test plot as follows:



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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:

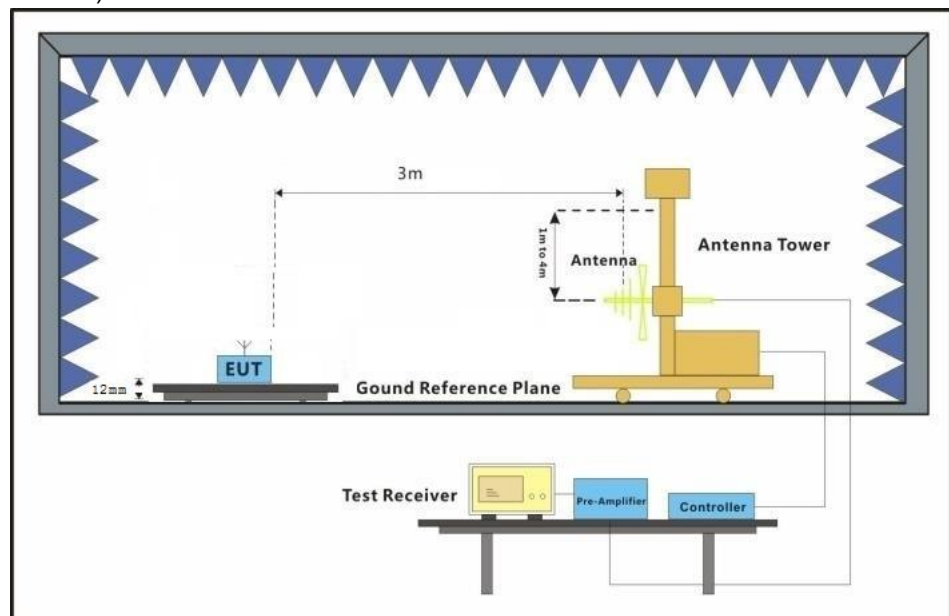
Device type	Limit
Manually operated transmitter	The switch automatically deactivate the transmitter within not more than 5 seconds of being released
Automatically actived transmitter	Cease transmission within 5 seconds after activation
Periodic transmissions to determine system integrity of transmitters used in security or safety applications	The total transmission time does not exceed 2 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-K3Y411X-M1/E).

Test Setup:



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

Test Results: Pass



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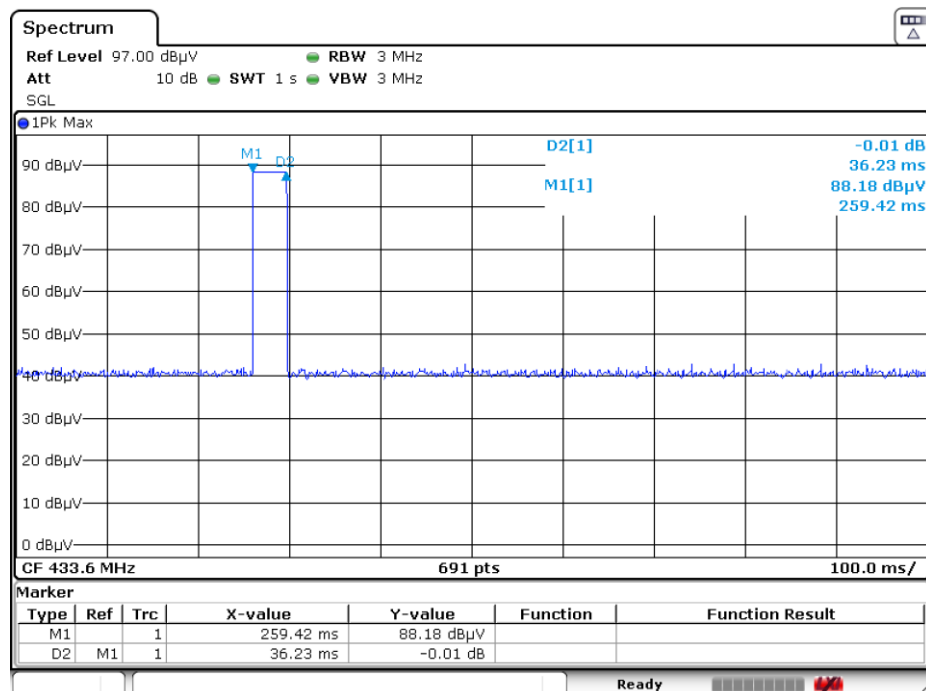
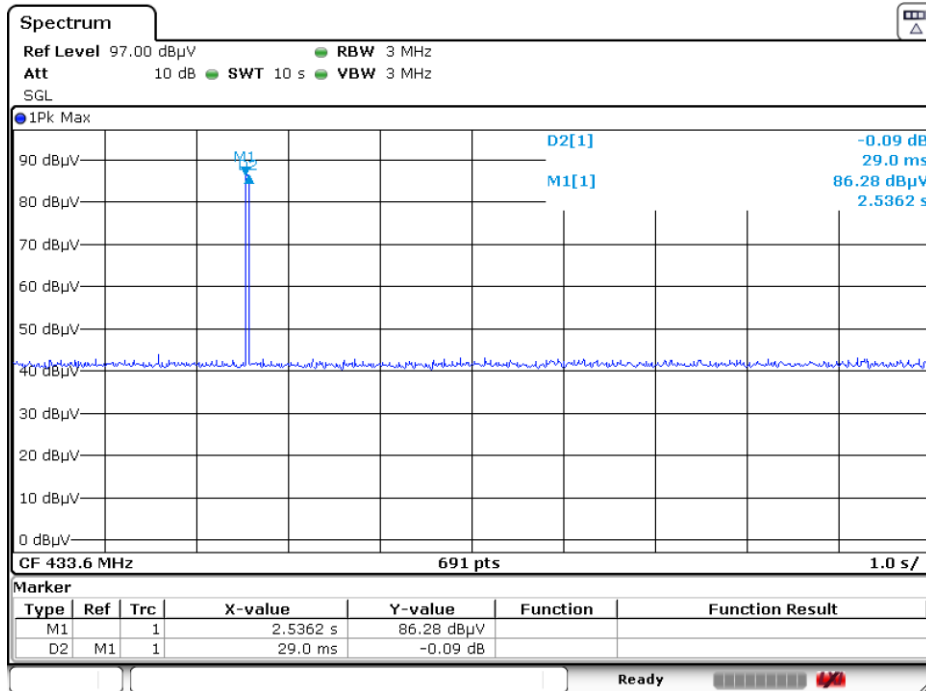
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Measurement Data:

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

Test plot as follows:



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7.4 Spurious Emissions

Test frequency range: 9KHz - 5GHz

Test Site: Measurement Distance: 3m

Receiver Setup:

Frequency	Detector	RBW	VBW	Remark
0.009MHz-0.015MHz	Quasi-peak	200Hz	1KHz	Quasi-peak
0.015MHz-30MHz	Quasi-peak	9kHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120 kHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

**Limit:
(Spurious Emissions)**

Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
0.009MHz-0.490MHz	2400/F(kHz)	-	Quasi-peak	300
0.490MHz-1.705MHz	24000/F(kHz)	-	Quasi-peak	30
1.705MHz-30MHz	30	-	Quasi-peak	30
30MHz-88MHz	100	40.0	Quasi-peak	3
88MHz-216MHz	150	43.5	Quasi-peak	3
216MHz-960MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1GHz	500	54.0	Average	3
		74.0	Peak	3

**Limit:
(Field strength of the fundamental signal)**

Frequency	Limit (dBuV/m @3m)	Remark
433.09 - 434.61MHz	80.83	Average Value
	100.83	Peak Value

Test Procedure:

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. 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.
- 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.

- h. 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.

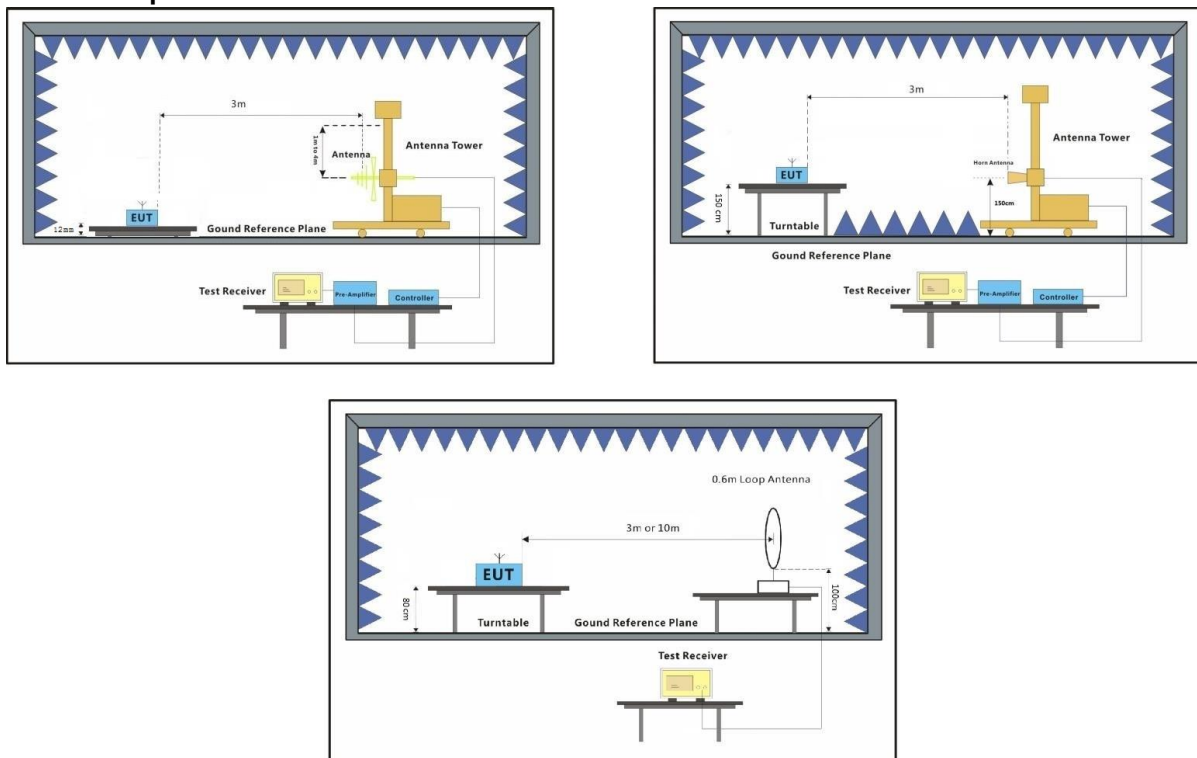
7.4.1 E.U.T. Operation

Operating Environment:

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

- Test mode
- a: TX mode_Keep the EUT in transmitting with modulation mode (DS-K3Y411X-M1/E).
 - b: TX mode_Keep the EUT in transmitting with modulation mode (DS-K3Y411X-M1/M).

Test Setup:



Test Results: Pass

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.

Remark:



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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	86.92	100.83	-13.91	Peak	Vertical
		74.73	80.83	-11.05	AVG	Vertical
		89.78	100.83	-6.10	Peak	Horizontal
		77.59	80.83	-3.24	AVG	Horizontal

Mode b

Test channel	Freq. (MHz)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
Channel 1	433.60	86.86	100.83	-13.97	Peak	Vertical
		74.67	80.83	-6.16	AVG	Vertical
		89.73	100.83	-11.10	Peak	Horizontal
		77.54	80.83	-3.29	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 = $20\log(\text{Duty Cycle}) = 12.19\text{dB}$

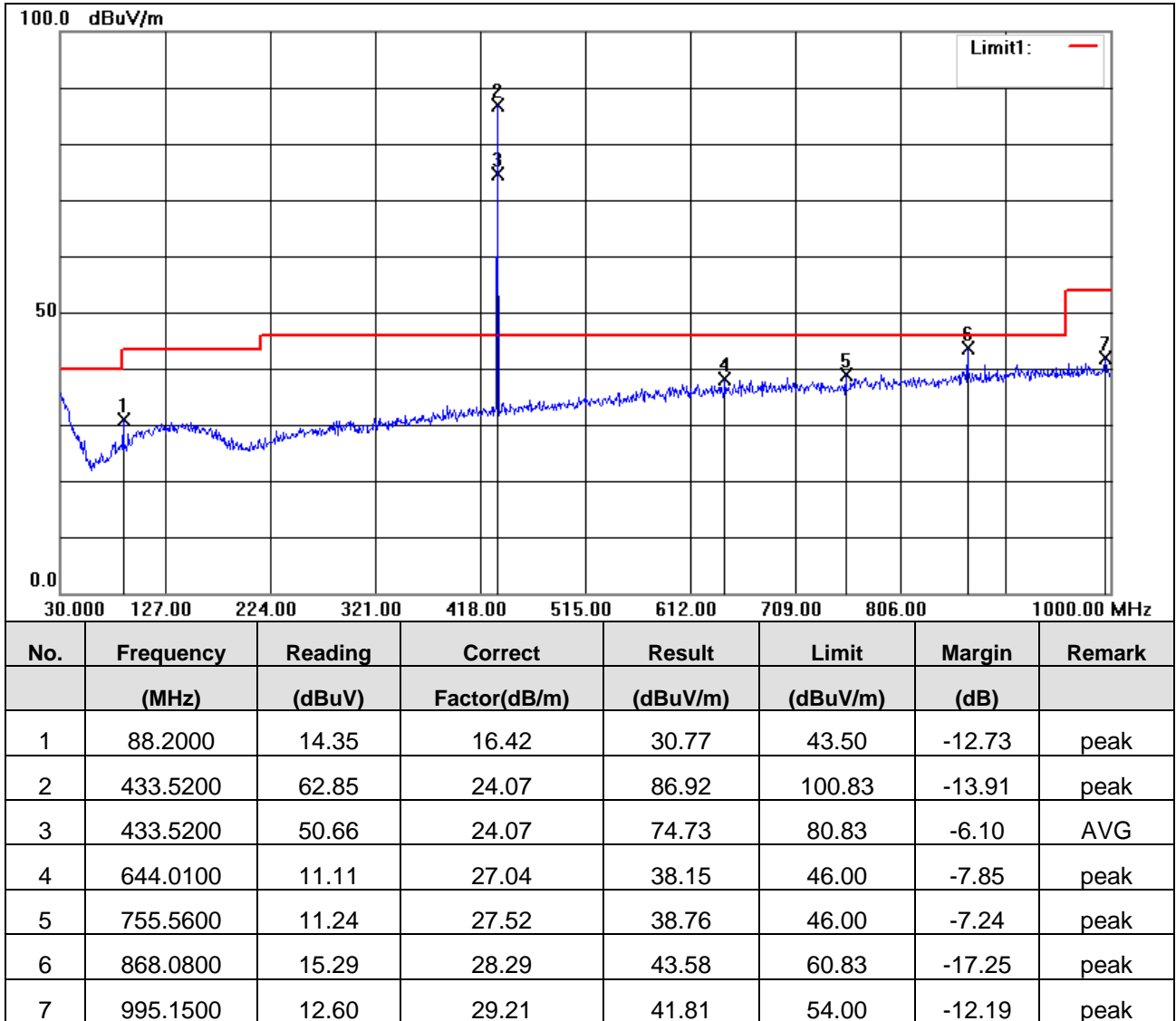


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7.4.3 Spurious Emissions

Mode a
Below 1GHz
Vertical:

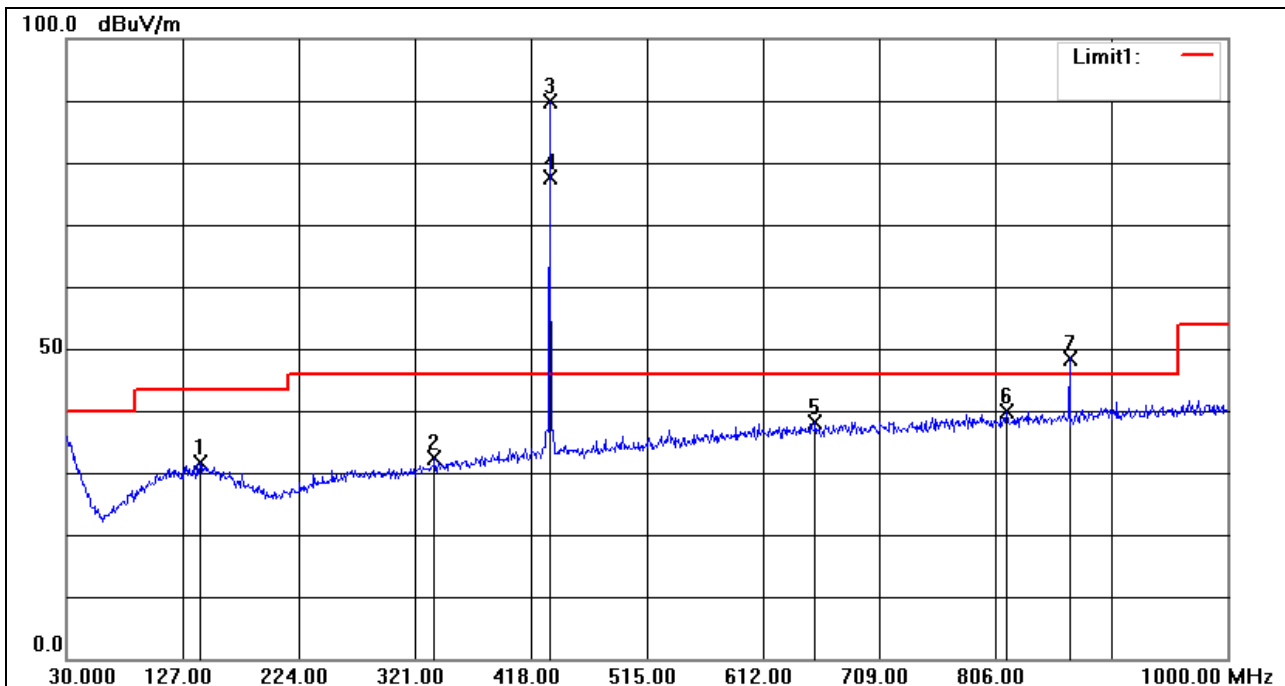


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Horizontal:



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	141.5500	11.82	19.86	31.68	43.50	-11.82	peak
2	337.4900	10.36	21.94	32.30	46.00	-13.70	peak
3	433.5200	65.71	24.07	89.78	100.83	-11.05	peak
4	433.5200	53.52	24.07	77.59	80.83	-3.24	AVG
5	655.6500	10.99	27.15	38.14	46.00	-7.86	peak
6	815.7000	11.93	27.91	39.84	46.00	-6.16	peak
7	868.0800	20.21	28.29	48.50	60.83	-12.33	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	2098.000	49.23	-8.01	41.22	54.00	-12.78	peak	Vertical
2	3241.000	47.56	-5.28	42.28	54.00	-11.72	peak	Vertical
3	4231.000	46.84	-2.92	43.92	54.00	-10.08	peak	Vertical
4	2197.000	48.40	-7.79	40.61	54.00	-13.39	peak	Horizontal
5	3466.000	46.85	-5.12	41.73	54.00	-12.27	peak	Horizontal
6	4978.000	47.54	-2.20	45.34	54.00	-8.66	peak	Horizontal



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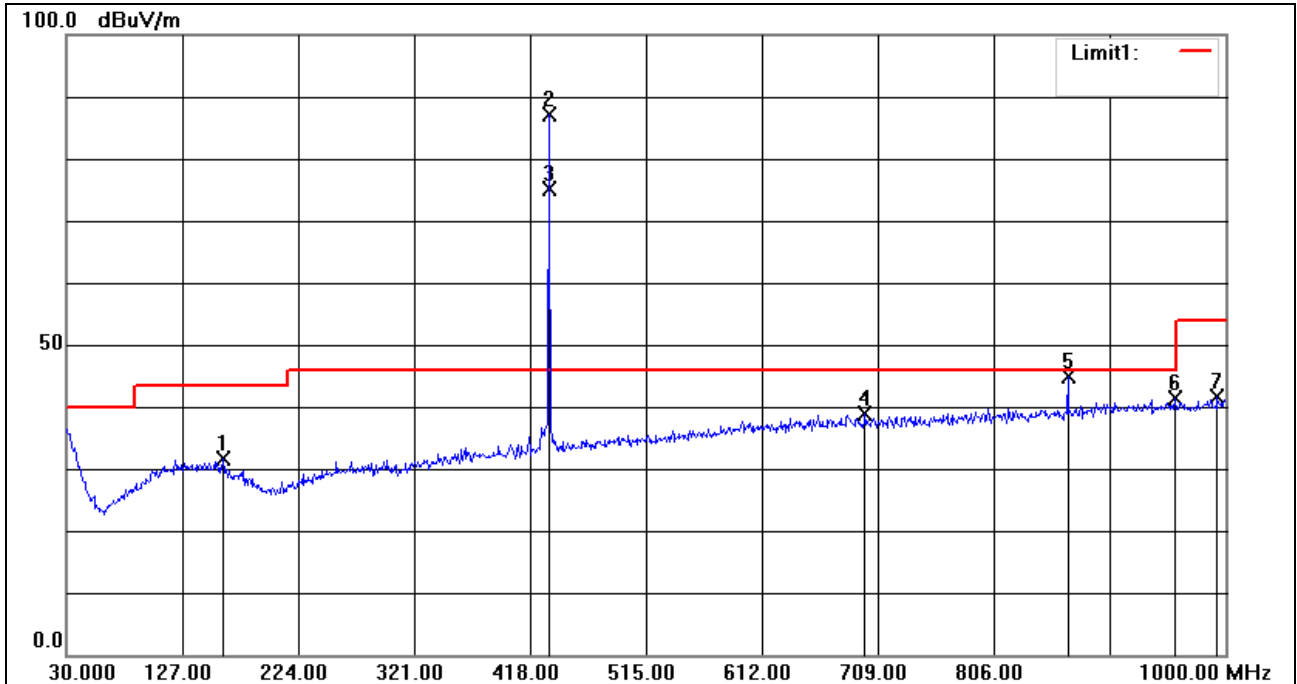
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Mode b
Below 1GHz
Vertical:



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	160.9500	12.28	19.29	31.57	43.50	-11.93	peak
2	433.5200	63.17	24.07	87.24	100.83	-13.59	peak
3	433.5200	50.98	24.07	75.05	80.83	-5.78	AVG
4	698.3300	11.46	27.49	38.95	46.00	-7.05	peak
5	868.0800	16.68	28.29	44.97	60.83	-15.86	peak
6	957.3200	11.99	29.29	41.28	46.00	-4.72	peak
7	993.2100	12.49	29.21	41.70	54.00	-12.30	peak



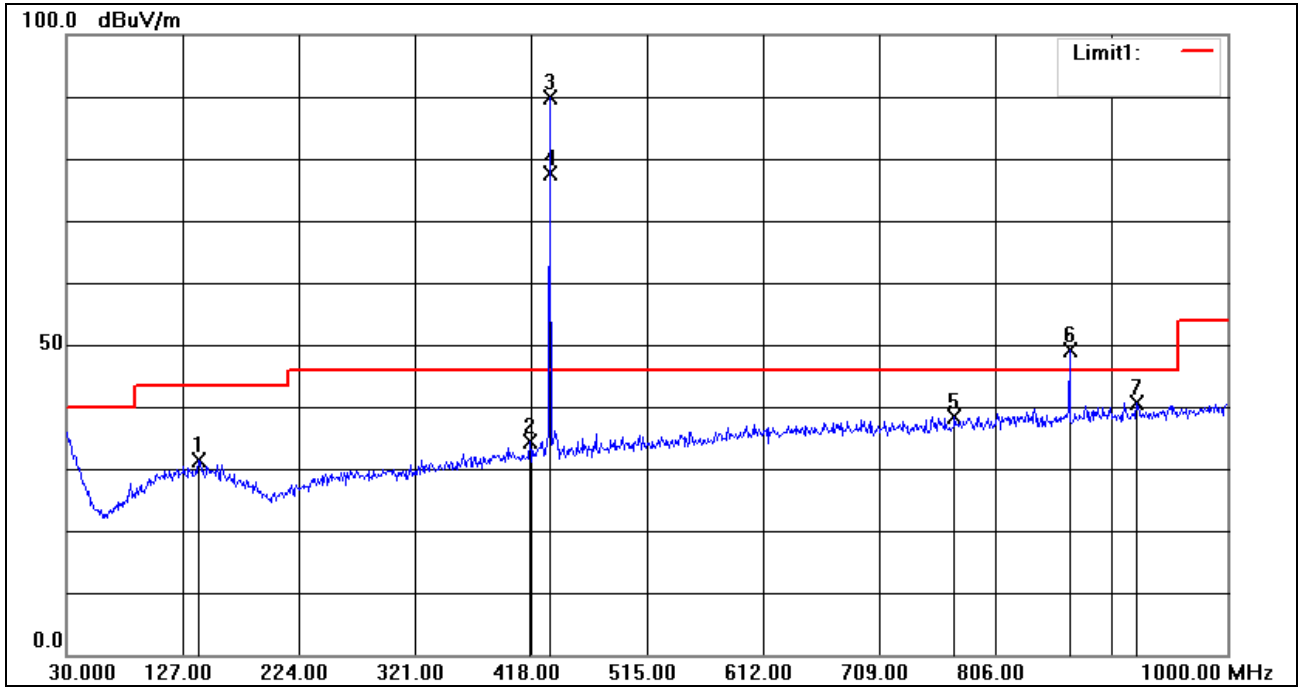
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Horizontal:



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	140.5800	11.43	19.83	31.26	43.50	-12.24	peak
2	417.0300	10.57	23.83	34.40	46.00	-11.60	peak
3	433.5200	65.85	24.07	89.92	100.83	-10.91	peak
4	433.5200	53.66	24.07	77.73	80.83	-3.10	AVG
5	772.0500	10.77	27.63	38.40	46.00	-7.60	peak
6	868.0800	20.84	28.29	49.13	60.83	-11.70	peak
7	924.3400	11.75	28.98	40.73	46.00	-5.27	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	2737.000	51.13	-6.50	44.63	54.00	-9.37	peak	Vertical
2	1585.000	52.11	-12.21	39.90	54.00	-14.10	peak	Vertical
3	4042.000	48.47	-3.82	44.65	54.00	-9.35	peak	Vertical
4	2170.000	49.22	-7.85	41.37	54.00	-12.63	peak	Horizontal
5	2989.000	46.29	-5.95	40.34	54.00	-13.66	peak	Horizontal
6	4105.000	46.01	-3.47	42.54	54.00	-11.46	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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