



SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

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1 Cover Page

RF REPORT

Application No.:	SHEM160603460CR
Applicant:	Hangzhou Hikvision Digital Technology Co., Ltd.
FCC ID:	2ADTD-16PK
Equipment Under Test (EUT): NOTE: The following sample(s) submitted was/were identified on behalf of the client as	
Product Name:	Keypad
Model No.:	DS-PK00M-LCD
Added Model:	DS-PK08-LED, DS-PK16-LED, DS-PK00-LCD, DS-PK08M-LED, DS-PK16M-LED, DS-PK00M-LCD, DS-PK00-Y, DS-RK08-LED, DS-RK16-LED, DS-RK00-LCD, DS-RK08M-LED, DS-RK16M-LED, DS-RK00M-LCD, DS-RK00-Y, DS-PK08T-LED, DS-PK16T-LED, DS-PK00T-LCD, DS-PK08MT-LED, DS-PK16MT-LED, DS-PK00MT-LCD, DS-RK08T-LED, DS-RK16T-LED, DS-RK00T-LCD, DS-RK08MT-LED, DS-RK16MT-LED, DS-RK00MT-LCD, DS-19K00-B, DS-19K00-B(16), DS-19K00-B(RF), DS-19K00-B(16RF), DS-19K00-BL, DS-19K00-Y, DS-PKXXA-ABC, DS-PKXYB-ABC(XYZ), DS-KEM125
Standards:	FCC Part 15 Subpart C: 2015 RSS-210 Issue 8 (December 2010), RSS-Gen Issue 4 (November 2014)
Date of Receipt:	2015-06-04
Date of Test:	2016-06-12 to 2016-06-22
Date of Issue:	2016-06-23
Test Result:	PASS *

*In the configuration tested, the EUT detailed in this report complied with the standards specified above.



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.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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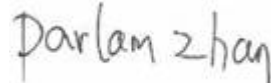
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(Shanghai) Co., Ltd.**

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2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
00	/	2016-06-23	/	Original

Authorized for issue by:			
Engineer	Eddy Zong		
	Print Name		
Clerk	Susie Liu		
	Print Name		
Reviewer	Parlam Zhan		
	Print Name		



3 Test Summary

Test Item	FCC Requirement	Test method	Result
Antenna Requirement	Part 15.203	/	PASS
Conducted Emission	Part 15.207	ANSI C63.10 (2013) Section 6.2	PASS
Field Strength of the Fundamental	Part 15.231 (b)	ANSI C63.10 (2013) Section 6.4	PASS
Radiated Spurious emissions	Part 15.209 15.231(b)	ANSI C63.10 (2013) Section 6.4&6.5&6.6	PASS
20dB Bandwidth	Part 15.231 (c)	ANSI C63.10 (2013) Section 6.9.2	PASS
99% Occupied Bandwidth	---	RSS-Gen Clause 4.6.1	PASS
Dwell Time	Part 15.231 (a)	ANSI C63.10 (2013) Section 7.8.4	PASS

Remark: There are series models mentioned in this report, and they are the similar in electrical and electronic characters. Only the model DS-PK00M-LCD was tested since their differences were the model number, trade name and appearance deviation.



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5 General Information

5.1 Client Information

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:	Hangzhou Hikvision Technology Co., Ltd.
Address of Factory:	No. 700 Dongliu Road, Binjiang District, Hangzhou 310052, Zhejiang, China

5.2 General Description of E.U.T.

Product Description:	Fixed production with 433 remote control function
Brand Name:	HIKVISION

5.3 Technical Specifications:

Operation Frequency:	433MHz
Modulation Technique:	FSK
Number of Channel:	1
Antenna Type	Monopole antenna
Rated Input:	DC 12V
Test Voltage:	AC 230V 50Hz for adapter

5.4 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Supplied by
Megcard	Hikvision	/	Client
Adapter	Acepower	BSW0127-1210002W	Client

Parameter of adapter:

Adapter:	Rated Input:	AC 100V-240V 50/60Hz 500mA	
	Rated Output:	DC 12V 1A	
	Cable length:	AC port:	2 wires
		DC port:	140 cm

5.5 Details of Test Mode

Test Mode	Detail description of the test mode
Engineering Mode	Keeps EUT working in continuous transmitting mode

5.6 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab
588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China.

Tel: +86 21 6191 5666

Fax: +86 21 6191 5678

No tests were sub-contracted.

5.7 Test Facility

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

- **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 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. Date of expiry: 2017-07-14.

- **FCC – Registration No.: 402683**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered and fully described in a report filed with the Federal Communications Commission (FCC). The acceptance letter from the FCC is maintained in our files. Registration No.: 402683, Expiry Date: 2017-09-16.

- **Industry Canada (IC) – IC Assigned Code: 8617A**

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A-1. Expiry Date: 2017-06-18.

- **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-3868, C-4336, T-2221, G-830 respectively. Date of Expiry: 2017-11-16.



5.8 Measurement Uncertainty

No.	Parameter	Measurement Uncertainty
1	Radio Frequency	$< \pm 1 \times 10^{-5}$
2	Total RF power, conducted	$< \pm 1.5 \text{ dB}$
3	RF power density, conducted	$< \pm 3 \text{ dB}$
4	Spurious emissions, conducted	$< \pm 3 \text{ dB}$
5	All emissions, radiated	$< \pm 6 \text{ dB}$ (Below 1GHz) $< \pm 6 \text{ dB}$ (Above 1GHz)
6	Temperature	$< \pm 1^{\circ}\text{C}$
7	Humidity	$< \pm 5 \%$
8	DC and low frequency voltages	$< \pm 3 \%$

6 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due date
1	EMI test receiver	Rohde & Schwarz	ESCS30	100086	2016-01-14	2017-01-13
2	Line impedance stabilization network	SCHWARZBECK	NSLK8127	8127490	2016-01-14	2017-01-13
3	Line impedance stabilization network	EMCO	3816/2	00034161	2016-01-14	2017-01-13
4	Spectrum Analyzer	Rohde & Schwarz	FSP-30	100324	2016-01-14	2017-01-13
5	EMI test receiver	Rohde & Schwarz	ESU40	100109	2016-02-13	2017-02-12
6	Active Loop Antenna (9kHz to 30MHz)	Schwarzbeck - Mess-Elektronik	FMZB 1519	1519-034	2016-01-14	2017-01-13
7	Broadband UHF-VHF ANTENNA (25MHz to 2GHz)	SCHWARZBECK	VULB9168	9168-313	2016-01-14	2017-01-13
8	Ultra broadband antenna (25MHz to 3GHz)	Rohde & Schwarz	HL562	100227	2015-08-30	2016-08-29
9	Horn Antenna (1GHz to 18GHz)	Rohde & Schwarz	HF906	100284	2016-01-14	2017-01-13
10	Horn Antenna (1GHz to 18GHz)	SCHWARZBECK	BBHA9120D	9120D-679	2016-01-14	2017-01-13
11	Horn Antenna (14GHz to 40GHz)	SCHWARZBECK	BBHA 9170	BBHA9170373	2016-01-14	2017-01-13
12	Pre-amplifier (9KHz – 2GHz)	LNA6900	TESEQ	71033	2016-01-14	2017-01-13
13	Pre-amplifier (1GHz – 26.5GHz)	Rohde & Schwarz	SCU-F0118-G40-BZ4-CSS(F)	10001	2016-01-14	2017-01-13
14	Pre-amplifier (14GHz – 40GHz)	Rohde & Schwarz	SCU-F1840-G35-BZ3-CSS(F)	10001	2016-01-14	2017-01-13
15	Tunable Notch Filter	Wainwright instruments GmbH	WRCT800.0/880.0-0.2/40-5SSK	9170397	/	/
16	High pass Filter	FSCW	HP 12/2800-5AA2	19A45-02	/	/
17	High-low temperature cabinet	Suzhou Zhihe	TL-40	50110050	2015-09-11	2016-09-10
18	AC power stabilizer	WOCEN	6100	51122	2016-01-14	2017-01-13
19	DC power	QJE	QJ30003SII	611145	2016-01-14	2017-01-13
20	Signal Generator (Interferer)	Agilent	SMR40	100555	2015-08-13	2016-08-12
21	Signal Generator (Blocker)	Rohde & Schwarz	SMJ100A	101394	2016-01-14	2017-01-13
22	Splitter	Anritsu	MA1612A	M12265	/	/
23	Coupler	e-meca	803-S-1	900-M01	/	/

7 Test results and Measurement Data

7.1 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 integrated and no consideration of replacement.



7.2 Conducted Emissions

Frequency Range: 150 KHz to 30 MHz

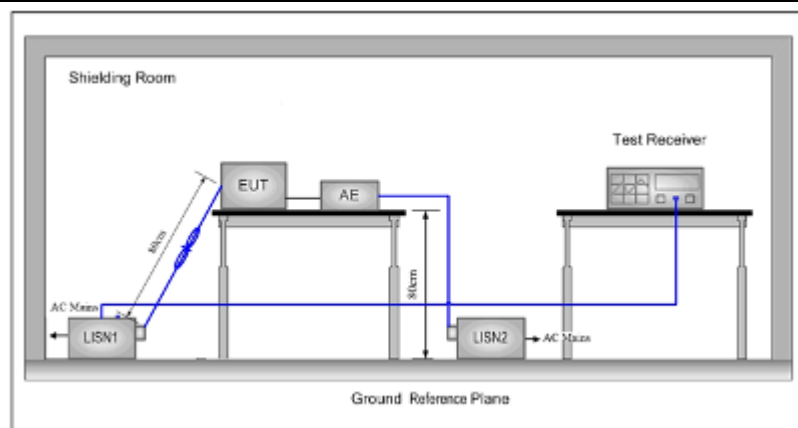
Limit:

Frequency range MHz	Class B Limits: dB (µV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note1: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50MHz.

Note2: The lower limit is applicable at the transition frequency.

Test Setup:



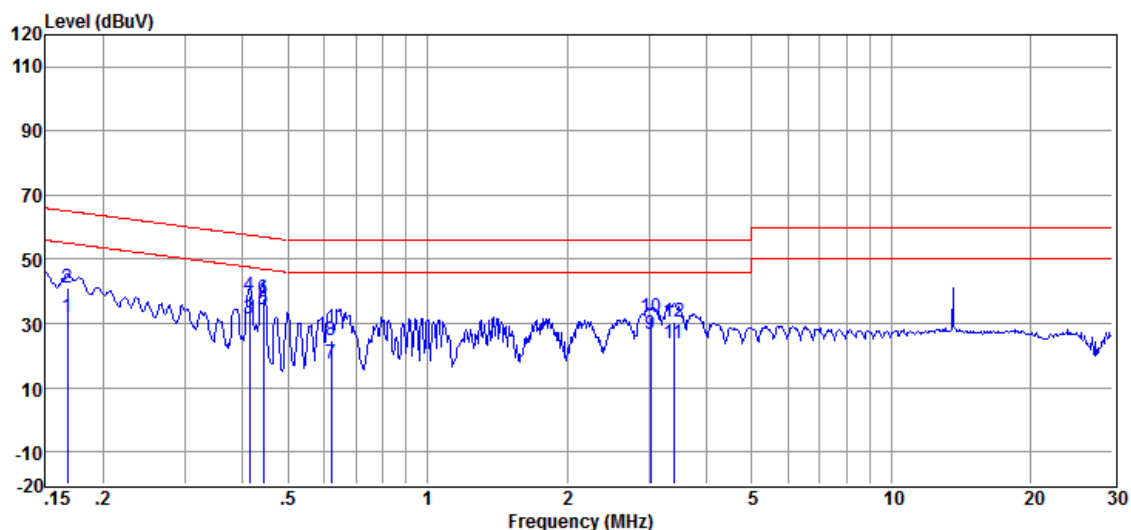
Test Procedure:

- a The mains terminal disturbance voltage was measured with the EUT in a shielded room.
- b The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides $50\Omega/50\mu\text{H} + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN, which was bonded to the ground reference plane in the same way as the LISN 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
- c 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, but separated from metallic contact with the ground reference plane by 0.1m of insulation.
- d 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 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance was between the closest points of the LISN and the EUT. The mains lead of EUT excess 0.8m was folded back and forth parallel to the lead so as to form a horizontal bundle with a length between 0.3m and 0.4m. All other units of the EUT and associated equipment were at least 0.8 m from the LISN.

Test Results: PASS

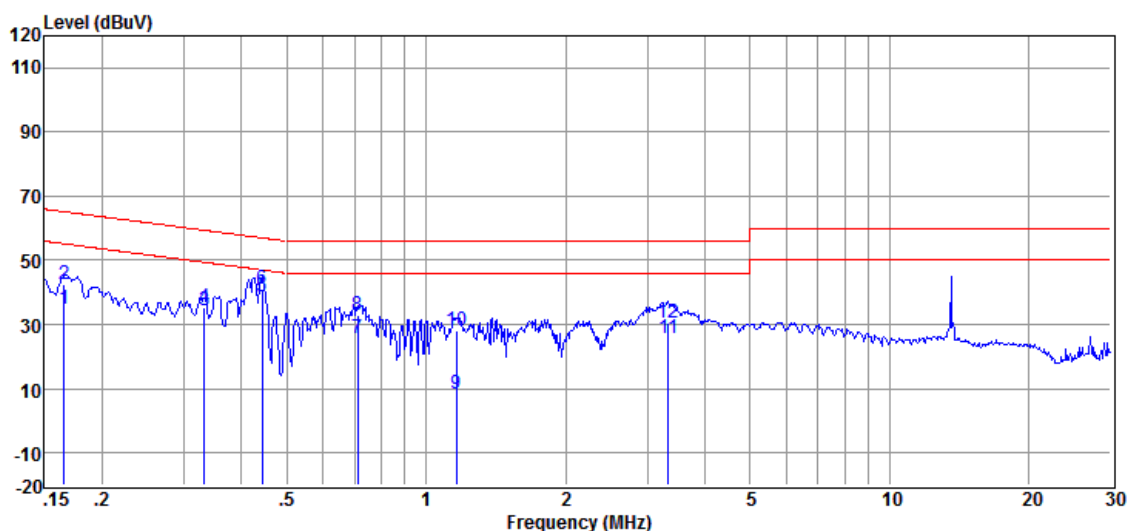
Measurement Data:

Live Line:



Item	Freq.	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Detector
(Mark)	(MHz)	(dBμV)	(dB)	(dB)	(dBμV)	(dBμV)	(dB)	
1	0.168	21.70	0.07	10.00	31.77	55.08	-23.31	Average
2	0.168	31.17	0.07	10.00	41.24	65.08	-23.84	QP
3	0.413	21.31	0.10	10.01	31.42	47.59	-16.17	Average
4	0.413	28.70	0.10	10.01	38.81	57.59	-18.78	QP
5	0.442	24.39	0.10	10.01	34.50	47.02	-12.52	Average
6	0.442	27.74	0.10	10.01	37.85	57.02	-19.17	QP
7	0.621	7.44	0.10	10.02	17.56	46.00	-28.44	Average
8	0.621	14.81	0.10	10.02	24.93	56.00	-31.07	QP
9	3.025	16.62	0.11	10.05	26.78	46.00	-19.22	Average
10	3.025	21.83	0.11	10.05	31.99	56.00	-24.01	QP
11	3.399	13.67	0.12	10.05	23.84	46.00	-22.16	Average
12	3.399	20.19	0.12	10.05	30.36	56.00	-25.64	QP

Neutral Line:



Item	Freq.	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Detector
(Mark)	(MHz)	(dBμV)	(dB)	(dB)	(dBμV)	(dBμV)	(dB)	
1	0.166	24.70	0.05	10.00	34.75	55.16	-20.41	Average
2	0.166	32.30	0.05	10.00	42.35	65.16	-22.81	QP
3	0.332	24.38	0.04	10.02	34.44	49.40	-14.96	Average
4	0.332	25.30	0.04	10.02	35.36	59.40	-24.04	QP
5	0.442	28.74	0.04	10.01	38.79	47.02	-8.23	Average
6	0.442	31.18	0.04	10.01	41.23	57.02	-15.79	QP
7	0.712	15.51	0.05	10.02	25.58	46.00	-20.42	Average
8	0.712	22.76	0.05	10.02	32.83	56.00	-23.17	QP
9	1.164	-1.93	0.05	10.03	8.15	46.00	-37.85	Average
10	1.164	18.17	0.05	10.03	28.25	56.00	-27.75	QP
11	3.328	15.69	0.13	10.05	25.87	46.00	-20.13	Average
12	3.328	20.24	0.13	10.05	30.42	56.00	-25.58	QP

Level = Read Level + LISN/ISN Factor + Cable Loss.

7.3 Spurious Emissions

Test frequency range: 9KHz – 5GHz

Test Site: Measurement Distance: 3m (Semi-Anechoic Chamber)

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

Test Setup:

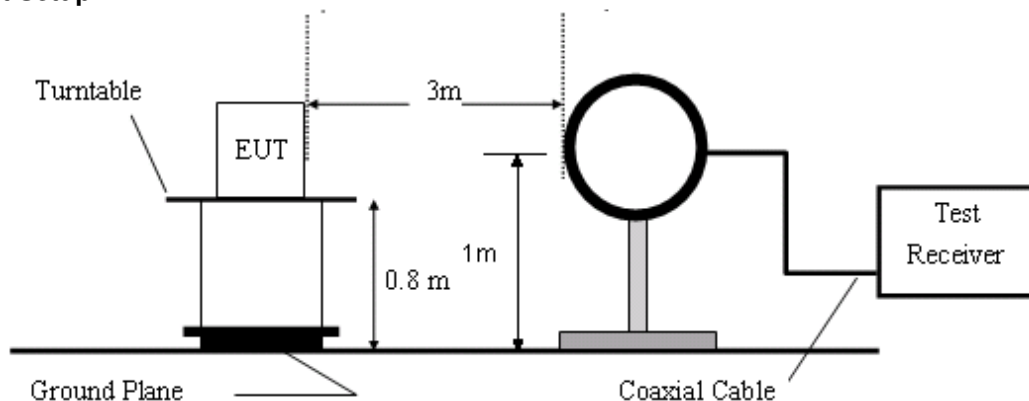


Figure1. 30MHz to 1GHz radiated emissions test configuration

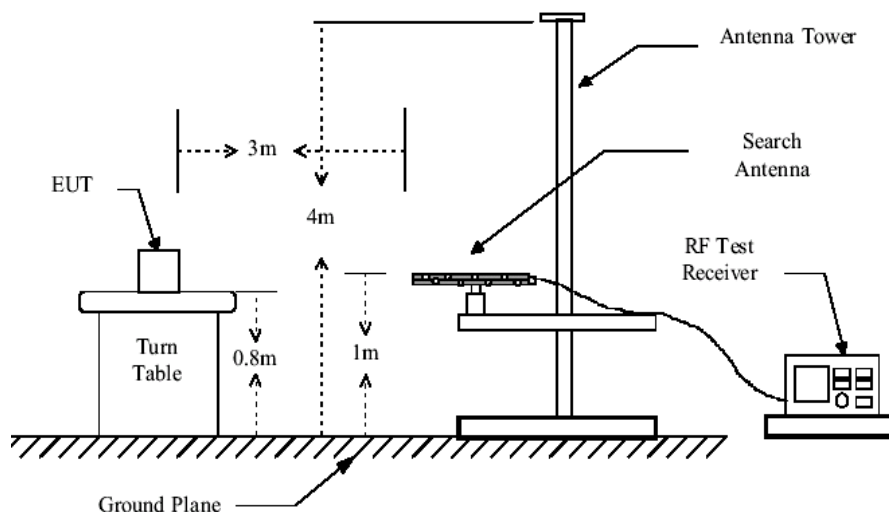


Figure2. 30MHz to 1GHz radiated emissions test configuration

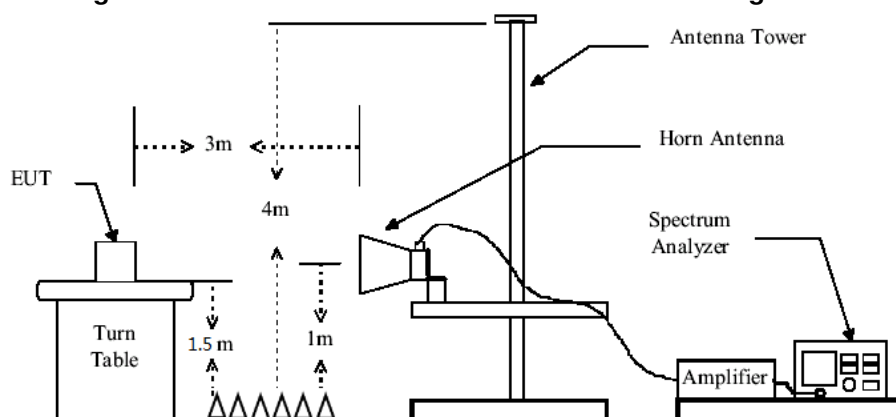


Figure3. Above 1GHz radiated emissions test configuration

Test Results: Pass



7.3.1 Field Strength of the Fundamental Signal

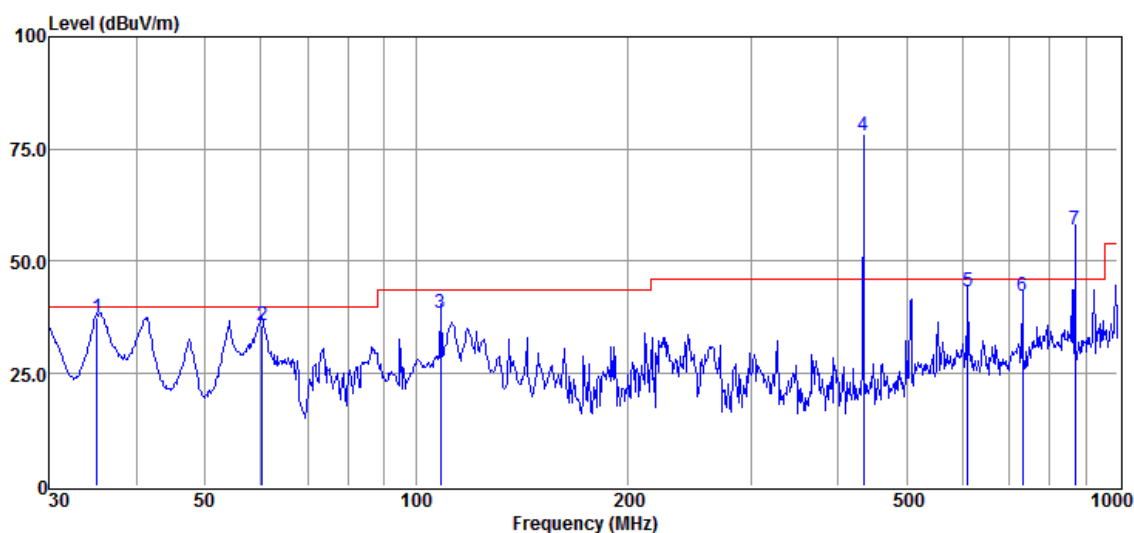
Test channel	Freq. (MHz)	Result Level (dB μ V/m)	Limit Line (dB μ V/m)	Over Limit (dB)	Detector	Polarization
Channel 1	433.6	78.05	80.83	-2.78	Peak	VERTICAL
		77.69	80.83	-3.14	Peak	HORIZONTAL

Remark: If the Peak value below the AV Limit, the AV test doesn't perform for this submission.

7.3.2 Spurious Emissions

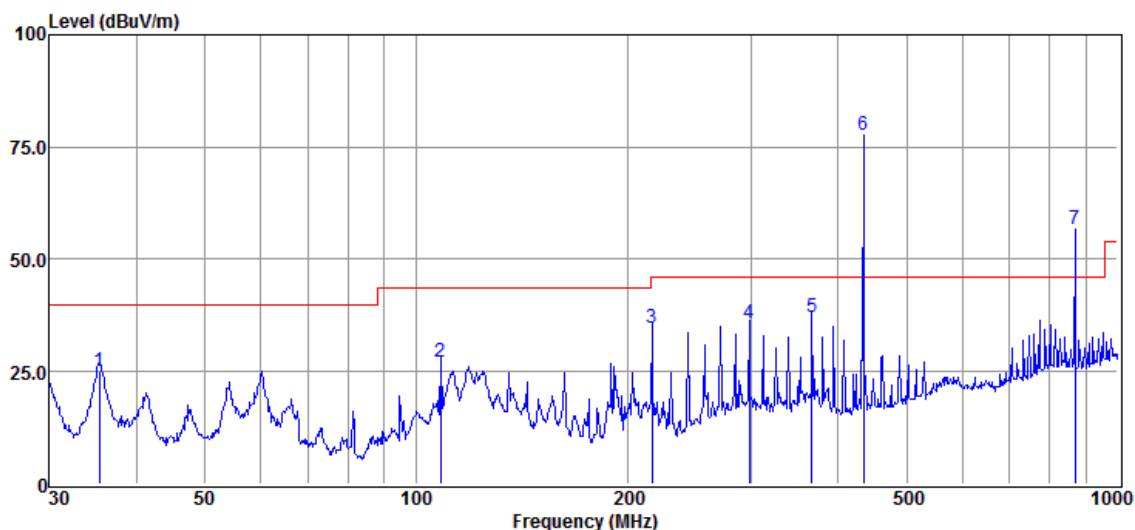
Below 1GHz

Vertical:



Item	Freq.	Read Level	Antenna Factor	Preamplifier Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector
(Mark)	(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1	35.13	57.87	12.52	33.40	0.57	37.56	40.00	-2.44	QP
2	60.28	56.34	12.13	33.37	0.79	35.89	40.00	-4.11	QP
3	108.27	60.15	10.60	33.48	1.12	38.39	43.50	-5.11	QP
4	433.6	90.22	16.16	30.87	2.54	78.05	Fundamental signal		
5	612.06	49.44	20.16	29.41	3.08	43.27	46.00	-2.73	QP
6	731.92	46.18	21.38	28.58	3.45	42.43	46.00	-3.57	QP
7	867.18	57.28	23.16	27.20	3.80	57.04	60.8	-3.76	QP

Horizontal:



Item	Freq.	Read Level	Antenna Factor	Preamplifier	Cable Loss	Result Level	Limit Line	Over Limit	Detector
(Mark)	(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1	35.38	45.37	12.57	33.41	0.57	25.10	40.00	-14.90	QP
2	108.27	48.81	10.60	33.48	1.12	27.05	43.50	-16.45	QP
3	216.78	55.41	10.13	32.56	1.72	34.70	46.00	-11.30	QP
4	298.27	52.35	13.30	32.12	2.05	35.58	46.00	-10.42	QP
5	366.82	52.81	13.17	31.17	2.31	37.12	46.00	-8.88	QP
6	433.6	89.86	16.16	30.87	2.54	77.69	Fundamental signal		
7	867.18	57.02	23.16	27.20	3.80	56.78	60.8	-4.02	QP



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Above 1GHz

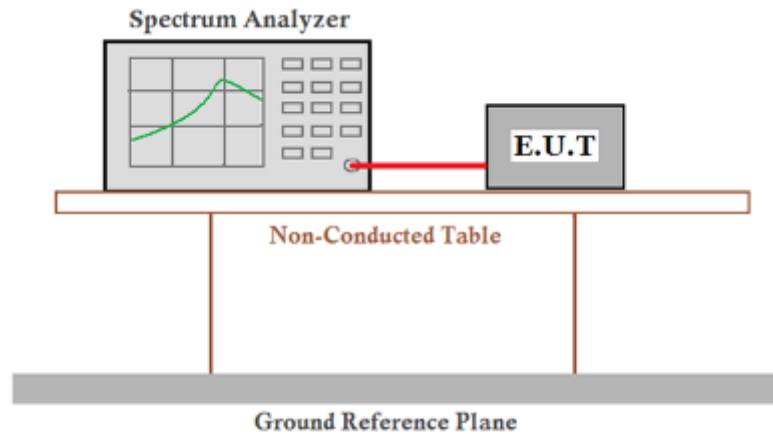
Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	polarization
1	1301.12	48.36	-7.38	40.98	54	-13.02	peak	Horizontal
2	1734.86	45.27	-4.99	40.28	54	-13.72	peak	Horizontal
3	2168.63	42.19	2.22	44.41	54	-9.59	peak	Horizontal
4	1301.12	50.32	-7.38	42.94	54	-11.06	peak	Vertical
5	1734.86	44.95	-4.99	39.96	54	-14.04	peak	Vertical
6	2168.63	42.83	2.3	45.13	54	-8.87	peak	Vertical

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.

7.4 20dB Bandwidth

Test Setup:



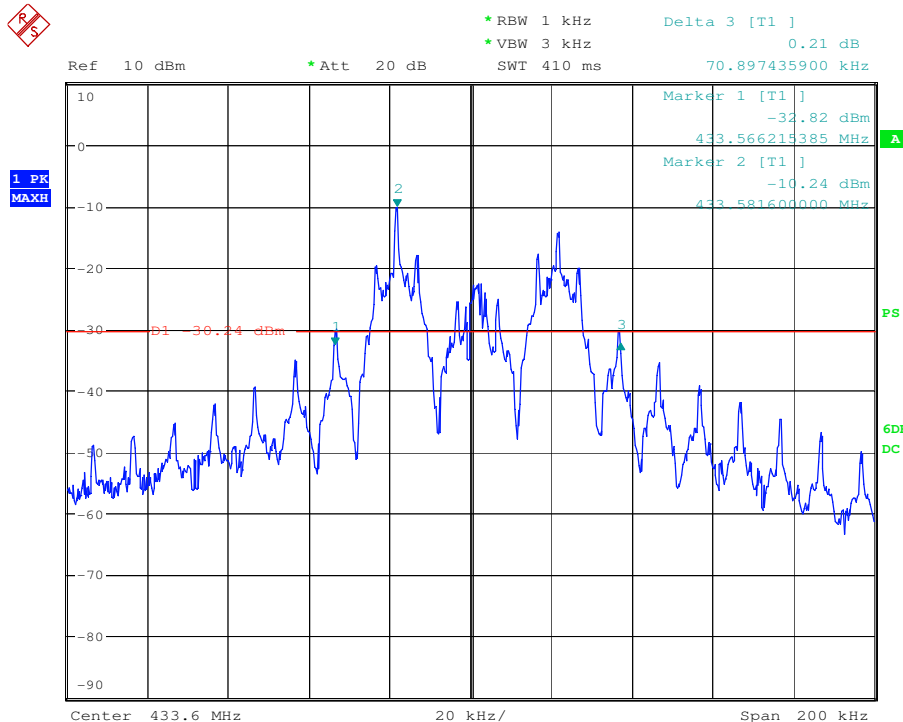
Limit: The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

Test Results: Pass

Measurement Data:

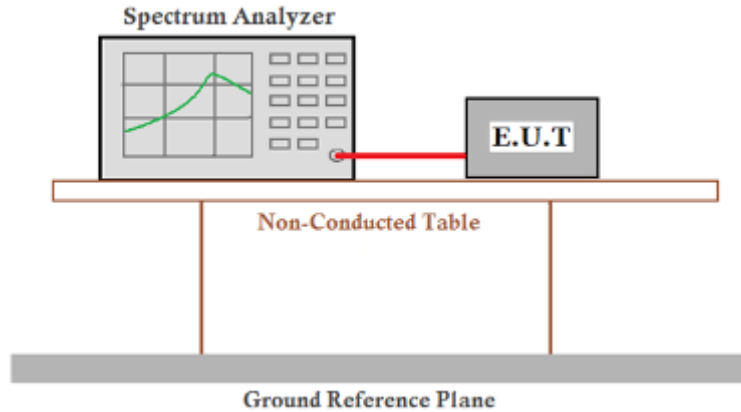
Frequency(MHz)	20dB bandwidth (kHz)	Limit (kHz)	Results
433.6	70.90	1084.8	Pass

Test plot as follows:



7.5 Dwell Time

Test Setup:

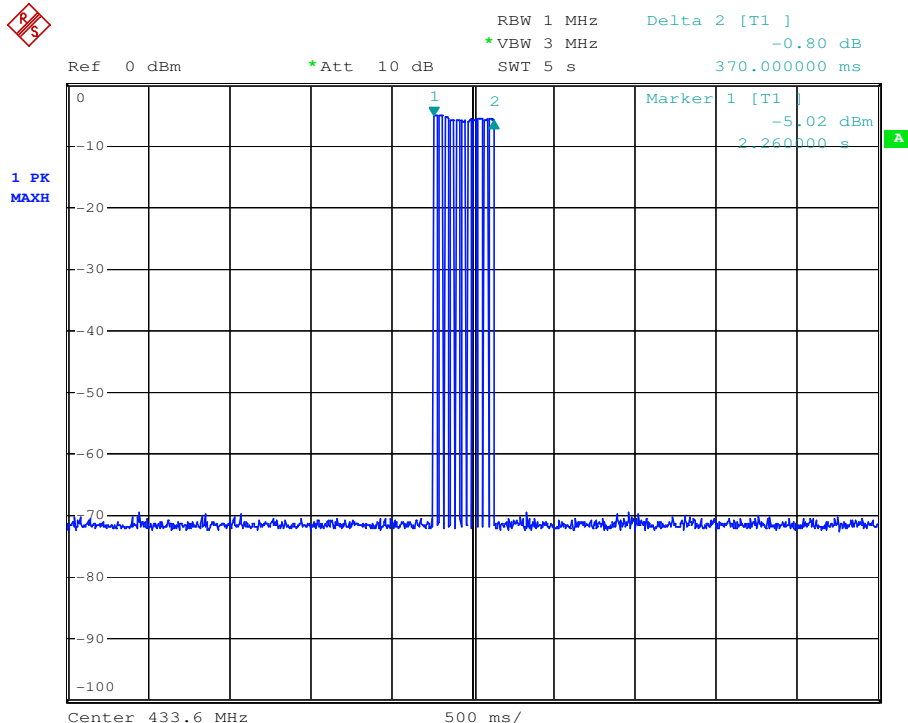


Limit: 15.231 (a): Not more than 5 seconds
Test Results: Pass

Measurement Data:

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

Test plot as follows:





8 Test Setup Photographs

Refer to the < DS-PK00M-LCD _Test Setup photos-FCC>.

9 EUT Constructional Details

Refer to the < DS-PK00M-LCD _External Photo > & < DS-PK00M-LCD _Internal Photos >.

--End of the Report--