

Prüfbericht-Nr.: <i>Test report No.:</i>	60381593 003	Auftrags-Nr.: <i>Order No.:</i>	168266209	Seite 1 von 15 <i>Page 1 of 15</i>
Kunden-Referenz-Nr.: <i>Client reference No.:</i>	N/A	Auftragsdatum: <i>Order date.:</i>	22.05.2020	
Auftraggeber: <i>Client:</i>	Hangzhou Hikvision Digital Technology Co., Ltd. No. 555 Qianmo Road, Binjiang District, Hangzhou, 310052 Zhejiang, P.R. China			
Prüfgegenstand: <i>Test item:</i>	Fingerprint Access Control Terminal			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	DS-K1T201AMF, DS-K1T201AMFUHK, DS-K1T201AMFCKV, DS-K1T201AMFUVS, DS-K1T201AMFKVO, DS-K1T201AMFHUN (Trademark: HIKVISION)			
Auftrags-Inhalt: <i>Order content:</i>	FCC Test			
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart B			
Wareneingangsdatum: <i>Date of receipt:</i>	27.05.2020	Please refer to photo documents		
Prüfmuster-Nr.: <i>Test sample No.:</i>	A002831817-002			
Prüfzeitraum: <i>Testing period:</i>	27.05.2020 - 09.06.2020			
Ort der Prüfung: <i>Place of testing:</i>	Shenzhen STS Test Services Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von / tested by:		kontrolliert von / reviewed by:		
 15.06.2020 Ryan Yang / Assistant Project Manager		 15.06.2020 Winnie Hou / Technical Certifier		
Datum <i>Date</i>	Name/Stellung <i>Name/Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name/Stellung <i>Name/Position</i>
				Unterschrift <i>Signature</i>
Sonstiges / Other:				
This report is for FCC Part 15B requirements only.				
FCC ID: 2ADTD-K1T201AMF				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged:</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specifications(s) F(ail) = failed a.m. test specifications(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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Test Summary

5.1.1 CONDUCTED EMISSION ON AC MAINS

RESULT: Pass

5.1.2 RADIATED EMISSION

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:
Appendix A: Test Results of FCC Part 15B

2 Test Sites

2.1 Test Facilities

Shenzhen STS Test Services Co., Ltd.

A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC Accreditation Designation No.: 625569

The tests at the test sites have been conducted under the supervision of a TÜV engineer.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Shenzhen STS Test Services Co., Ltd.

Conducted Emission				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
EMI Test Receiver	R&S	ESCI	101427	08.10.2020
LISN	R&S	ENV216	101242	08.10.2020
LISN	ETS	3810/2NM	00023625	08.10.2020
Radiated Emission				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
EMI Test Receiver	R&S	ESCI	101427	08.10.2020
Bi-log Antenna	TESEQ	CBL6111D	34678	01.11.2020
Horn Antenna (1G-18G)	SCHWARZBECK	BBHA 9120D	9120D-1343	18.10.2021
Horn Antenna	A-INFO	LB-180400-KF	J211020657	10.03.2021
Pre-amplifier (18G-40G)	Agilent	8449B	3008A02383	10.10.2020
Pre-amplifier (0.1M-3GHz)	EM	EM330	060665	08.10.2020
Spectrum Analyzer	Agilent	N9020A	MY49100060	08.10.2020
RE Cable (9K-1G)	N/A	R01	N/A	11.10.2020
RE Cable (1G-26G)	N/A	R02	N/A	11.10.2020
Temperature & Humidity	Mieo	HH660	N/A	11.10.2020

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

Parameter	Uncertainty
Conducted Emission(9KHz-150KHz)	3.37
Conducted Emission(150KHz ~ 30MHz)	3.83
Radiated Emission(30MHz ~ 1000MHz)	5.6
Radiated Emission(1GHz ~ 6 GHz)	5.5
Radiated Emission(6GHz ~ 18 GHz)	5.8
Radiated Emission(18GHz ~ 40 GHz)	5.9

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The Shenzhen STS Test Services Co., Ltd. Test facility located at A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guangdong, China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The EUT is an optical fingerprint access control terminal with multiple advanced technologies including fingerprint recognition, Wi-Fi 802.11 b/g/n, card recognition(RFID), 2.8-inch LCD display screen. It is equipped with optical fingerprint recognition module, and supports offline operation.

According to the declaration of the applicant, the electrical circuit design, PCB layout and components used are identical for all models, only the model number is different.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment	Fingerprint Access Control Terminal
Type Designation	DS-K1T201AMF, DS-K1T201AMFUHK, DS-K1T201AMFCKV, DS-K1T201AMFUVS, DS-K1T201AMFKVO, DS-K1T201AMFHUN
Trademark	HIKVISION
FCC ID	2ADTD-K1T201AMF
Operating Voltage	DC 12.0V@1.5A input via AC/DC adapter
Testing Voltage	AC 120V@60Hz

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, LAN port mode
- B. On, USB port mode
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- FCC Label and Location Info
- User Manual

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All tests were performed according to the procedures in ANSI C63.4: 2014.

According to clause 3.1, all tests were performed on model DS-K1T201AMF in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 3: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Adapter	HOIOTO	ADS-26FSG-12 12018EPG	1.5m	Input: 100-240V ~ 50/60Hz 0.7A Output: 12V/1.5A
Personal computer	HP	500-320cx	4CV428DQYN	N/A
USB Flash Drive	Teclast	32GB	N/A	N/A

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Mains Conduction Measurement

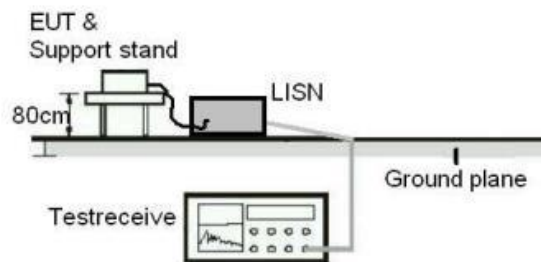


Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

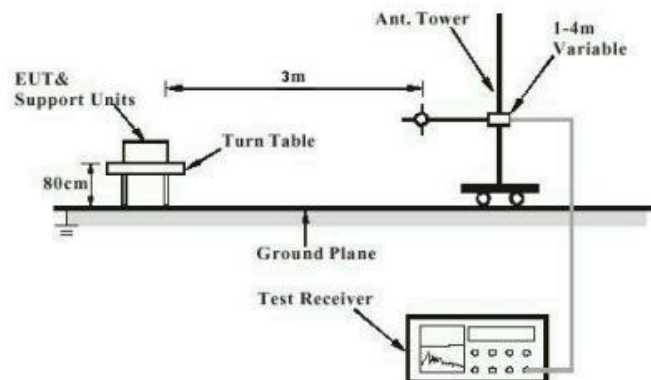
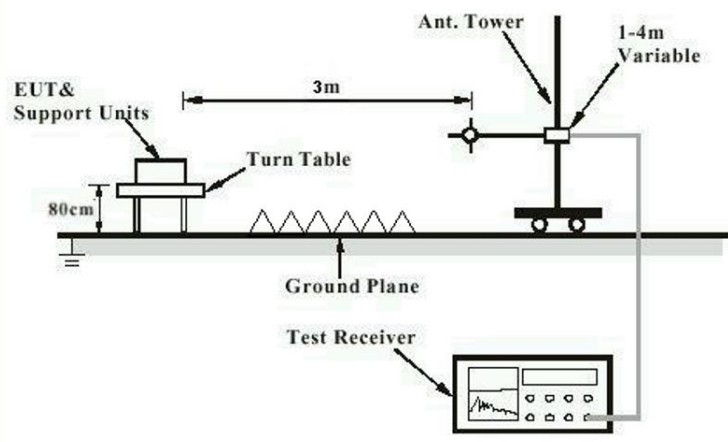


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)



5 Test Results

5.1 Receiver Requirement & Test Suites

5.1.1 Conducted Emission on AC Mains

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.207(a)
Basic standard	: ANSI C63.4: 2014
Frequency range	: 0.15 – 30MHz
Limits	: FCC Part 15.207(a)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 09.06.2020
Input voltage	: AC 120V@60Hz
Operation mode	: A + B
Earthing	: Not connected
Ambient temperature	: 25 °C
Relative humidity	: 54 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

5.1.2 Radiated Emission

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.109(a)
Basic standard	: ANSI C63.4: 2014
Frequency range	: 30 MHz – 25 GHz
Classification	: Class B
Limits	: FCC Part 15.109(a)
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 09.06.2020
Input voltage	: AC 120V@60Hz
Operation mode	: A + B
Earthing	: Not connected
Ambient temperature	: 24 °C
Relative humidity	: 53 %
Atmospheric pressure	: 101 kPa

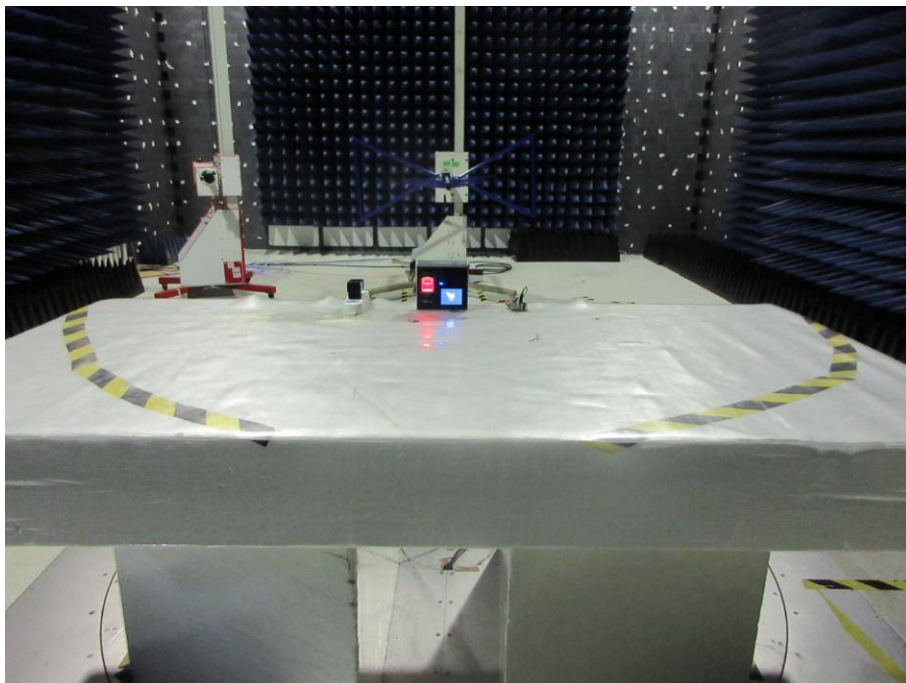
For the measurement records, refer to the appendix A.

6 Photographs of the Test Set-Up

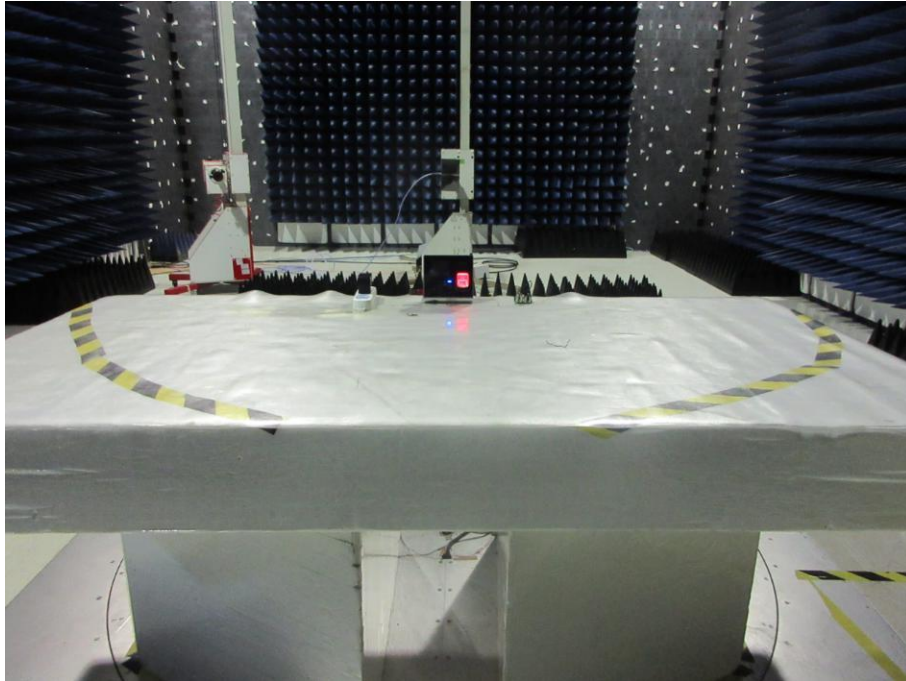
Photograph 1: Set-up for Conducted Emission on AC Mains



Photograph 2: Set-up for Radiated Emission, Below 1GHz



Photograph 3: Set-up for Radiated Emission, Above 1GHz



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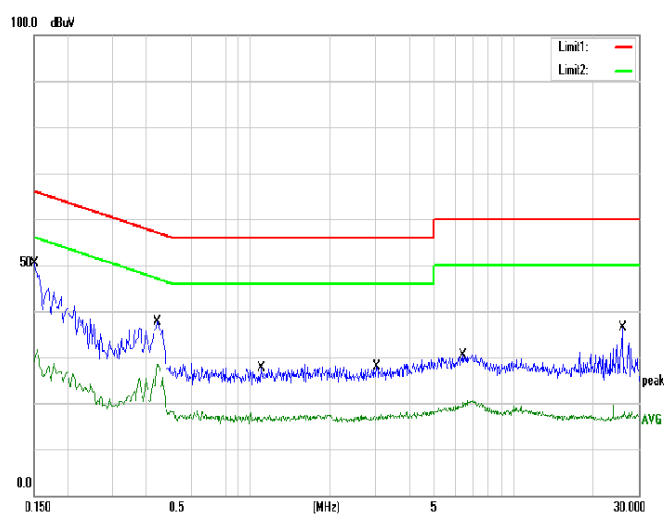
Appendix A: Test Results of FCC Part 15B

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Appendix A.1: Test Plots of Conducted Emission on AC Mains

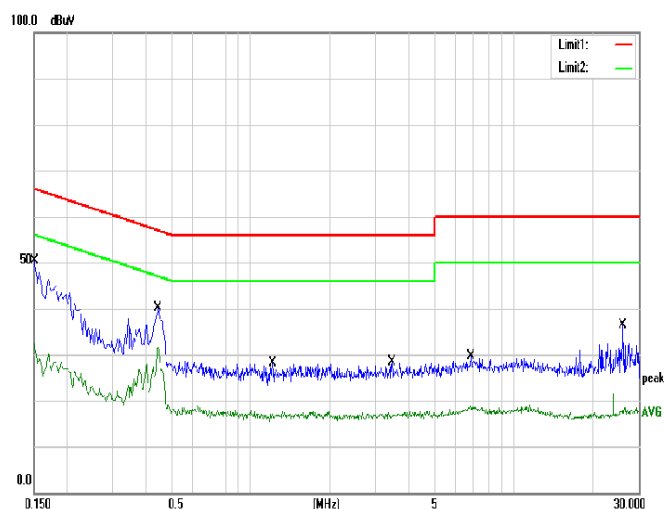
LAN port + USB port operating mode

Job No.:		LISN:	L1
Standard:	FCC Part15 CE-Class B_QP	Date:	2020/6/9
Test item:	Conducted Emission	Time:	19:59:09
Company:	Fingerprint Access Control Terminal	Temp.(C):	25.8(C)
Model:	DS-K1T201AMF	Hum.(%RH):	61%RH
Mode:	LAN port + USB port operating mode	Power:	AC 120V/60Hz
		Test By:	JUNE
Description:			



No.	Frequency (MHz)	Reading (dBμV)	Correct Factor(dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Remark
1	0.1500	30.26	20.23	50.49	66.00	-15.51	QP
2	0.1500	8.80	20.23	29.03	56.00	-26.97	AVG
3	0.4420	17.20	20.49	37.69	57.02	-19.33	QP
4	0.4420	7.92	20.49	28.41	47.02	-18.61	AVG
5	1.0940	7.54	20.15	27.69	56.00	-28.31	QP
6	1.0940	-3.86	20.15	16.29	46.00	-29.71	AVG
7	3.0100	7.82	19.98	27.80	56.00	-28.20	QP
8	3.0100	-3.10	19.98	16.88	46.00	-29.12	AVG
9	6.4380	10.59	19.89	30.48	60.00	-29.52	QP
10	6.4380	-0.62	19.89	19.27	50.00	-30.73	AVG
11	25.8820	15.70	20.60	36.30	60.00	-23.70	QP
12	25.8820	-3.36	20.60	17.24	50.00	-32.76	AVG

Job No.:		LISN:	N
Standard:	FCC Part15 CE-Class B_QP	Date:2020/6/9	Time:19:57:20
Test item:	Conducted Emission	Temp.(C):	25.8(C)
Company:	Fingerprint Access Control Terminal	Hum.(%RH):	61%RH
Model:	DS-K1T201AMF	Power:	AC 120V/60Hz
Mode:	LAN port + USB port operating mode	Test By:	JUNE
Description:			

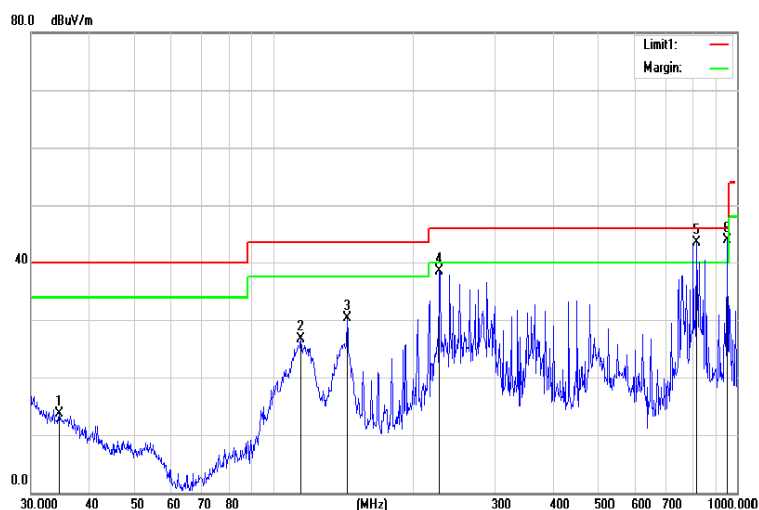


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1500	30.23	20.23	50.46	66.00	-15.54	QP
2	0.1500	12.06	20.23	32.29	56.00	-23.71	AVG
3	0.4460	19.70	20.49	40.19	56.95	-16.76	QP
4	0.4460	10.47	20.49	30.96	46.95	-15.99	AVG
5	1.2100	7.95	20.14	28.09	56.00	-27.91	QP
6	1.2100	-3.68	20.14	16.46	46.00	-29.54	AVG
7	3.4500	8.50	19.97	28.47	56.00	-27.53	QP
8	3.4500	-3.61	19.97	16.36	46.00	-29.64	AVG
9	6.9020	9.62	19.91	29.53	60.00	-30.47	QP
10	6.9020	-1.58	19.91	18.33	50.00	-31.67	AVG
11	26.0140	15.83	20.60	36.43	60.00	-23.57	QP
12	26.0140	-3.11	20.60	17.49	50.00	-32.51	AVG

Appendix A2: Test Plots of Radiated Emission, Below 1GHz

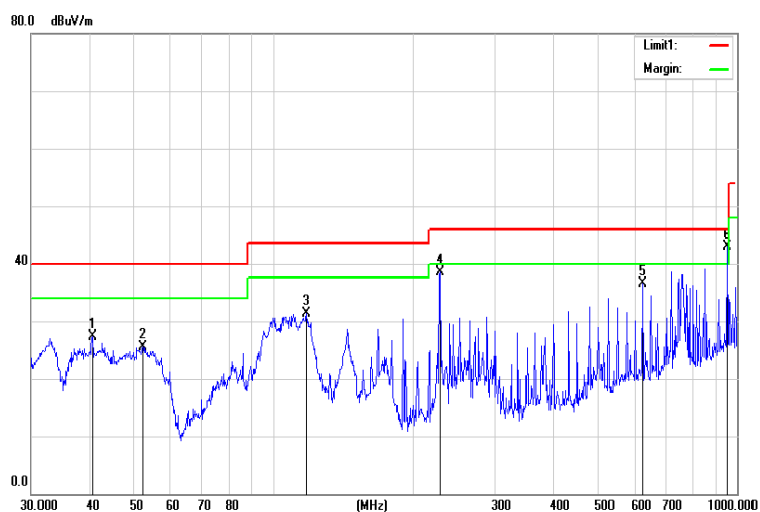
LAN port + USB port operating mode

Job No.:		Ant.Polar.:	Horizontal
Standard:	FCC_PART15_B_03m_QP	Date:2020/6/9	Time:21:50:17
Test item:	Radiated Emission	Temp.(C):	25.4(C)
Company:	Fingerprint Access Control Terminal	Hum.(%RH):	49%RH
Model:	DS-K1T201AMF	Power:	AC 120V/60Hz
Mode:	LAN port + USB port operating mode	Test By:	FRIDAY
Description:			



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	34.3962	27.09	-13.48	13.61	40.00	-26.39			QP
2	114.5146	45.77	-18.99	26.78	43.50	-16.72			QP
3	143.8291	48.77	-18.48	30.29	43.50	-13.21			QP
4	227.6904	57.38	-18.89	38.49	46.00	-7.51			QP
5	815.9678	48.96	-5.51	43.45	46.00	-2.55	100	360	QP
6	952.0937	45.96	-2.10	43.86	46.00	-2.14	100	0	QP

Job No.:		Ant.Polar.:	Vertical
Standard:	FCC_PART15_B_03m_QP	Date:	2020/6/9 Time:21:46:23
Test item:	Radiated Emission	Temp.(C):	25.4(C)
Company:	Fingerprint Access Control Terminal	Hum. (%RH):	49%RH
Model:	DS-K1T201AMF	Power:	AC 120V/60Hz
Mode:	LAN port + USB port operating mode	Test By:	FRIDAY
Description:			

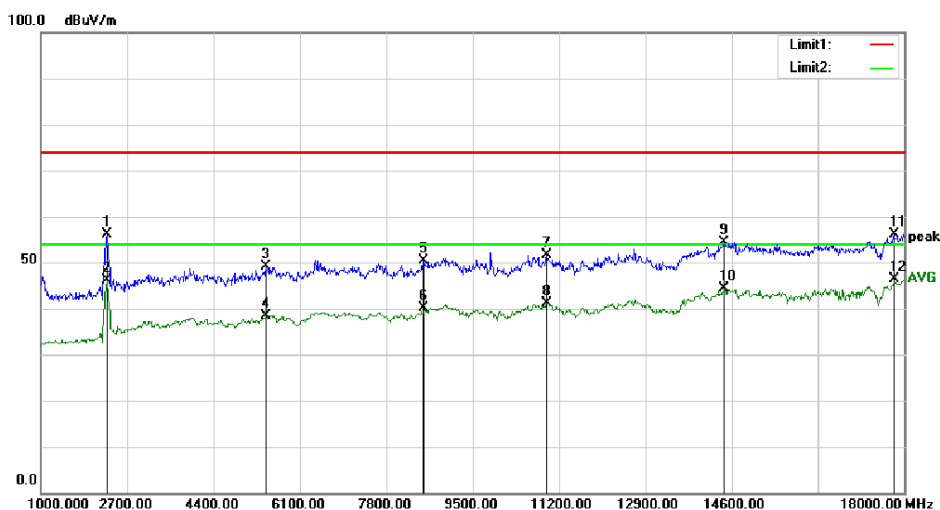


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	40.7014	44.22	-16.95	27.27	40.00	-12.73			QP
2	52.2080	48.07	-22.59	25.48	40.00	-14.52			QP
3	117.7724	49.87	-18.54	31.33	43.50	-12.17			QP
4	228.4901	57.27	-18.82	38.45	46.00	-7.55			QP
5	625.0780	45.13	-8.60	36.53	46.00	-9.47			QP
6	952.0937	45.07	-2.10	42.97	46.00	-3.03			QP

Appendix A3: Test Plots of Radiated Emission, Above 1GHz

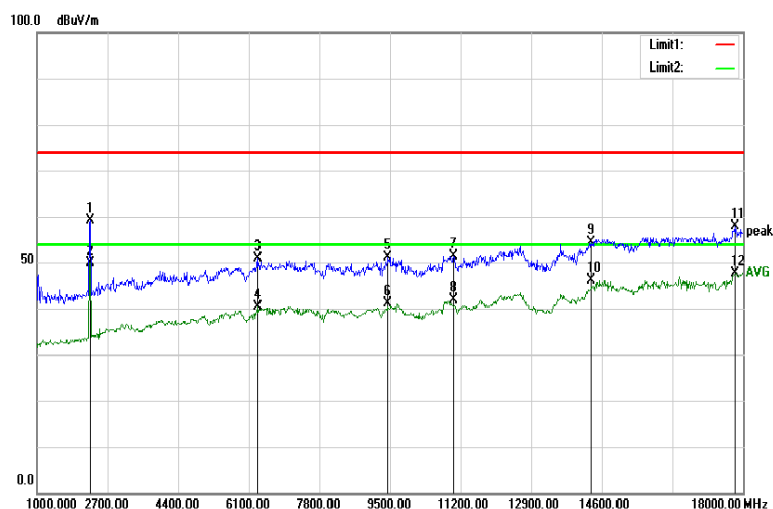
LAN port + USB port operating mode

Job No.:		Ant.Polar.:	Horizontal
Standard:	FCC_15B_ABOVE 1G-PK	Date:2020/6/9	Time:22:06:24
Test item:	Radiated Emission	Temp.(C):	25.4(C)
Company:	Fingerprint Access Control Terminal	Hum. (%RH):	49%RH
Model:	DS-K1T201AMF	Power:	AC 120V/60Hz
Mode:	LAN port + USB port operating mode	Test By:	FRIDAY
Description:			



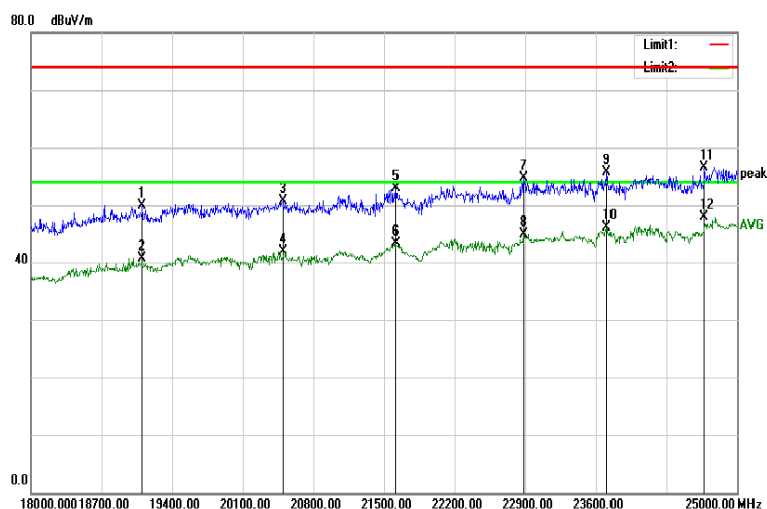
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2309.000	56.93	-0.76	56.17	74.00	-17.83			peak
2	2309.000	46.78	-0.76	46.02	54.00	-7.98			AVG
3	5420.000	41.84	7.27	49.11	74.00	-24.89			peak
4	5420.000	31.21	7.27	38.48	54.00	-15.52			AVG
5	8531.000	37.22	13.04	50.26	74.00	-23.74			peak
6	8531.000	27.10	13.04	40.14	54.00	-13.86			AVG
7	10962.000	37.43	14.21	51.64	74.00	-22.36			peak
8	10962.000	26.92	14.21	41.13	54.00	-12.87			AVG
9	14447.000	36.33	18.12	54.45	74.00	-19.55			peak
10	14447.000	26.37	18.12	44.49	54.00	-9.51			AVG
11	17796.000	31.80	24.38	56.18	74.00	-17.82			peak
12	17796.000	21.92	24.38	46.30	54.00	-7.70			AVG

Job No.:		Ant.Polar.:	Vertical
Standard:	FCC_15B_ABOVE 1G-PK	Date:2020/6/9	Time:22:06:24
Test item:	Radiated Emission	Temp.(C):	25.4(C)
Company:	Fingerprint Access Control Terminal	Hum. (%RH):	49%RH
Model:	DS-K1T201AMF	Power:	AC 120V/60Hz
Mode:	LAN port + USB port operating mode	Test By:	FRIDAY
Description:			



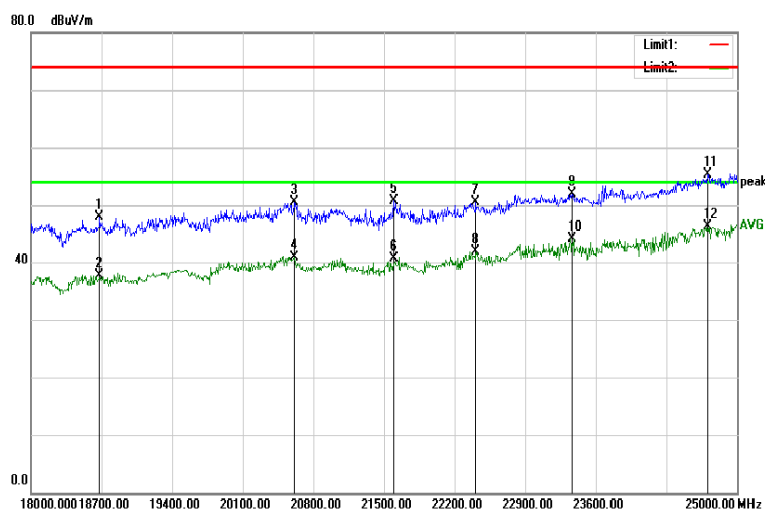
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2275.000	59.93	-0.78	59.15	74.00	-14.85			peak
2	2275.000	50.72	-0.78	49.94	54.00	-4.06			AVG
3	6304.000	41.85	8.96	50.81	74.00	-23.19			peak
4	6304.000	31.42	8.96	40.38	54.00	-13.62			AVG
5	9449.000	37.31	13.82	51.13	74.00	-22.87			peak
6	9449.000	27.26	13.82	41.08	54.00	-12.92			AVG
7	11030.000	37.18	14.25	51.43	74.00	-22.57			peak
8	11030.000	27.64	14.25	41.89	54.00	-12.11			AVG
9	14328.000	36.53	17.90	54.43	74.00	-19.57			peak
10	14328.000	28.20	17.90	46.10	54.00	-7.90			AVG
11	17813.000	33.45	24.39	57.84	74.00	-16.16			peak
12	17813.000	23.12	24.39	47.51	54.00	-6.49			AVG

Job No.:		Ant.Polar.:	Horizontal
Standard:	FCC_15B_ABOVE 1G-PK	Date:2020/6/9	Time:22:41:45
Test item:	Radiated Emission	Temp.(C):	25.4(C)
Company:	Fingerprint Access Control Terminal	Hum. (%RH):	49%RH
Model:	DS-K1T201AMF	Power:	AC 120V/60Hz
Mode:	LAN port + USB port operating mode	Test By:	FRIDAY
Description:			



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	19099.000	25.47	24.53	50.00	74.00	-24.00			peak
2	19099.000	16.19	24.53	40.72	54.00	-13.28			AVG
3	20492.000	25.72	24.94	50.66	74.00	-23.34			peak
4	20492.000	17.04	24.94	41.98	54.00	-12.02			AVG
5	21619.000	28.14	24.69	52.83	74.00	-21.17			peak
6	21619.000	18.55	24.69	43.24	54.00	-10.76			AVG
7	22886.000	30.23	24.52	54.75	74.00	-19.25			peak
8	22886.000	20.34	24.52	44.86	54.00	-9.14			AVG
9	23705.000	31.03	24.77	55.80	74.00	-18.20			peak
10	23705.000	21.32	24.77	46.09	54.00	-7.91			AVG
11	24671.000	31.62	24.96	56.58	74.00	-17.42			peak
12	24671.000	22.94	24.96	47.90	54.00	-6.10			AVG

Job No.:		Ant.Polar.:	Vertical
Standard:	FCC_15B_ABOVE 1G-PK	Date:2020/6/9	Time:22:35:21
Test item:	Radiated Emission	Temp.(C):	25.4(C)
Company:	Fingerprint Access Control Terminal	Hum. (%RH):	49%RH
Model:	DS-K1T201AMF	Power:	AC 120V/60Hz
Mode:	LAN port + USB port operating mode	Test By:	FRIDAY
Description:			



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Lim it (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	18679.000	23.23	24.62	47.85	74.00	-26.15			peak
2	18679.000	13.00	24.62	37.62	54.00	-16.38			AVG
3	20611.000	25.63	24.94	50.57	74.00	-23.43			peak
4	20611.000	16.02	24.94	40.96	54.00	-13.04			AVG
5	21598.000	25.99	24.71	50.70	74.00	-23.30			peak
6	21598.000	16.09	24.71	40.80	54.00	-13.20			AVG
7	22403.000	26.08	24.44	50.52	74.00	-23.48			peak
8	22403.000	17.43	24.44	41.87	54.00	-12.13			AVG
9	23362.000	27.17	24.68	51.85	74.00	-22.15			peak
10	23362.000	19.43	24.68	44.11	54.00	-9.89			AVG
11	24706.000	30.27	24.96	55.23	74.00	-18.77			peak
12	24706.000	21.31	24.96	46.27	54.00	-7.73			AVG