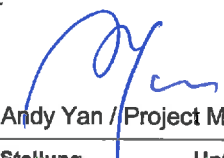


Prüfbericht-Nr.: <i>Test report No.:</i>	50084596 001	Auftrags-Nr.: <i>Order No.:</i>	164088664	Seite 1 von 16 <i>Page 1 of 16</i>
Kunden-Referenz-Nr.: <i>Client reference No.:</i>	N/A	Auftragsdatum: <i>Order date.:</i>	22.03.2017	
Auftraggeber: <i>Client:</i>	Lightcomm Technology Co., Ltd. RM 1808 18/F, FO TAN INDUSTRIAL CENTRE, NOS. 26-28 AU PUI WAN STREET, FO TAN SHATIN NEW TERRITORIES HONG KONG			
Prüfgegenstand: <i>Test item:</i>	Tablet PC			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	MID7006-L, DL7006, MID7006A-L, DL7006-KB, DL7006KB, DL70XXXXXX (X can be 0~9, A~Z) (DIGILAND)			
Auftrags-Inhalt: <i>Order content:</i>	FCC approval			
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart B Section 15.107 CFR47 FCC Part 15: Subpart B Section 15.109			
Wareneingangsdatum: <i>Date of receipt:</i>	03.04.2017	Refer to photo documents		
Prüfmuster-Nr.: <i>Test sample No.:</i>	A000520683-001			
Prüfzeitraum: <i>Testing period:</i>	07.04.2017 – 01.06.2017			
Ort der Prüfung: <i>Place of testing:</i>	SHENZHEN ALPHA PRODUCT TESTING 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:		
 01.06.2017 Andy Yan / Project Manager		 01.06.2017 Owen Tian / 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>
Sonstiges / Other:				
FCC ID: XMF-MID7006				
For model difference information refer to clause 3.1				
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>				

Test Summary

5.1.1 CONDUCTED EMISSION

RESULT: Pass

5.1.2 RADIATED EMISSION

RESULT: Pass

Contents

1	GENERAL REMARKS	4
1.1	COMPLEMENTARY MATERIALS	4
2	TEST SITES	4
2.1	TEST FACILITIES	4
2.2	LIST OF TEST AND MEASUREMENT INSTRUMENTS.....	5
2.3	TRACEABILITY	6
2.4	CALIBRATION	6
2.5	MEASUREMENT UNCERTAINTY.....	6
2.6	LOCATION OF ORIGINAL DATA.....	6
2.7	STATUS OF FACILITY USED FOR TESTING.....	6
3	GENERAL PRODUCT INFORMATION	7
3.1	PRODUCT FUNCTION AND INTENDED USE.....	7
3.2	RATINGS AND SYSTEM DETAILS	7
3.3	INDEPENDENT OPERATION MODES	8
3.4	NOISE GENERATING AND NOISE SUPPRESSING PARTS.....	8
3.5	SUBMITTED DOCUMENTS.....	8
4	TEST SET-UP AND OPERATION MODES	9
4.1	PRINCIPLE OF CONFIGURATION SELECTION	9
4.2	TEST OPERATION AND TEST SOFTWARE.....	9
4.3	SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT.....	9
4.4	COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE	9
4.5	TEST SETUP DIAGRAM	10
5	TEST RESULTS	12
5.1	TRANSMITTER REQUIREMENT & TEST SUITES	12
5.1.1	Conducted Emission	12
5.1.2	Radiated Emission	13
6	PHOTOGRAPHS OF THE TEST SET-UP	14
7	LIST OF TABLES.....	16
8	LIST OF PHOTOGRAPHS	16

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 Radiated Emission and Conducted Emission for Part 15B

2 Test Sites

2.1 Test Facilities

SHENZHEN ALPHA PRODUCT TESTING CO., LTD.

Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen City, Guangdong Province, P.R. China

FCC Registration No.: 203110

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 ALPHA PRODUCT TESTING CO., LTD.

Conducted Emission				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
Test Receiver	ROHDE&SCHWARZ	ESCI	101165	2017.09.28
L.I.S.N.	SCHWARZBECK	NSLK8126	8126-466	2017.09.28
L.I.S.N.	ROHDE&SCHWARZ	ENV216	101043	2017.09.28
Pulse Limiter	SCHWARZBECK	9516F	9618	2017.09.28
Radiated Emission				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
Loop Antenna	SCHWARZBECK	FMZB 1519B	00005	2018.09.28
Bilog Antenna	SCHWARZBECK	VULB 9168	9168#627	2018.09.29
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D(1201)	2018.09.29
PreAmplifier	Agilent	8449B	3008A02664	2017.09.28
Test Receiver	ROHDE&SCHWARZ	ESR	1316.3003K03-102082-Wa	2017.09.28
Spectrum analyzer	Agilent	E4407B	MY49510055	2017.09.28

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

Item	Extended Uncertainty
Conducted Emission	± 2.74 dB
Radiated Emission(30MHz – 1GHz)	± 3.80 dB
Radiated Emission(1GHz – 18GHz)	± 4.16 dB
Temperature	± 0.5 °C
Humidity	± 3.0 %

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 ALPHA PRODUCT TESTING CO., LTD. Test facility located at Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen City, Guangdong Province, P.R. 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 a 'Tablet PC' device. It supports Bluetooth 4.2 (Dual mode) and Wi-Fi 802.11 a/b/g/n wireless technology. This report is only for JBC. Other functions are reported in the related reports.

Model difference description:

All the models in this reports are identical in the PCBA, Drivers, Enclosure etc. electronic aspects, the detail as below.

Model No.	Detail
MID7006A-L, DL7006-KB	Excepting with Micro USB Port to connect the keyboard, with DC jack. All other electronic aspects are identical with the models.
MID7006-L, DL7006, DL70XXXXXX	Excepting without Micro USB Port to connect the keyboard, without DC jack. All other electronic aspects are identical with the other models.

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

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

Technical Specification	Value
Kind of Equipment	Tablet PC
Type Designation	MID7006A-L, DL7006-KB, MID7006-L, DL7006, DL70XXXXXX
Trade Mark	DIGILAND
FCC ID	XMF-MID7006
Operating Frequency	--
Operating Temperature Range	0°C ~ 40 °C
Operating Voltage	DC 3.7V
Testing Voltage	DC 3.7V and charged with AC/DC adapter (AC/DC adapter with 120V/60Hz input)
Adapter	TEKA006-0501500UKC Input: AC100~240V 50/60Hz 0.3A, Output: DC 5V/1.5A
Highest internal source	1.3GHZ

3.3 Independent Operation Modes

The basic operation modes are:

- A. Date Transfer,
- B. Running with full system, (with Adapter+Keyboard)

Note: Running with full system including Playing Video, Camera Recording etc. Only the worst cases data reported.

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- | | |
|------------------------------|------------------|
| - Application Form | - Photo Document |
| - Block Diagram | - Schematics |
| - ID Label and Location Info | - Block Diagram |
| - User Manual | |
| - Photo Document | |

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

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 testing were performed according to the procedures in ANSI C63.4: 2014.

According to clause 3.1, all tests were performed on model MID7006A-L in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 3: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N
Personal Computer	ACER	ASPIRE M1830	PTSF90C00305005CAC3000
Monitor	ACER	G205HV	SNID:10306738385
USB Keyboard	ACER	SK-9625	KBUSB1580500037E0100
USB Mouse	ACER	MS.11200.014	M-UAY-ACR2
Printer	HP	HP1020	CNCJ410726
Adapter	TEKA	TEKA006-0501500UKC Input: AC100~240V 50/60Hz 0.3A, Output: DC 5V/1.5A	--

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 Radiation Test (Below 1GHz)

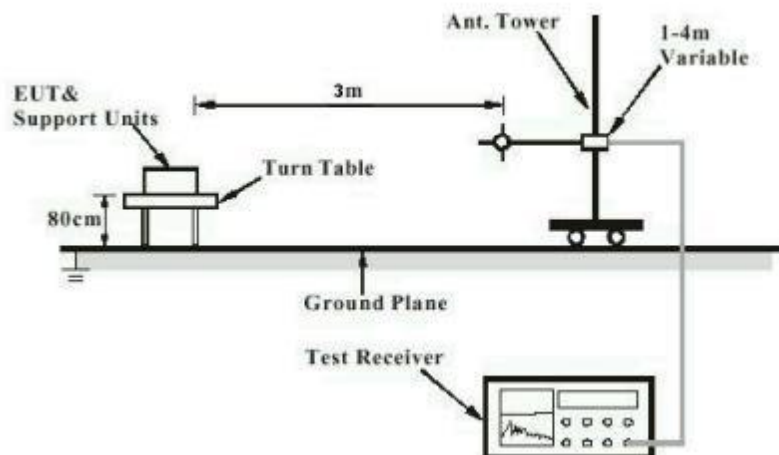


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

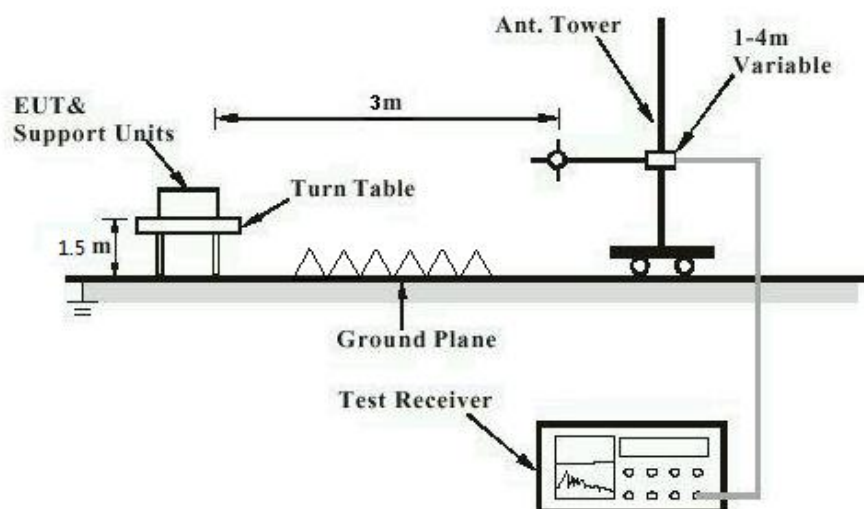
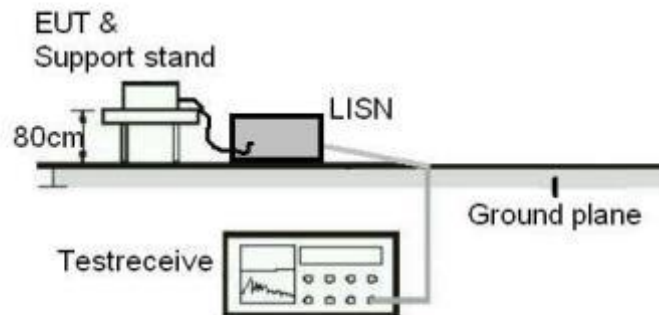


Diagram of Measurement Configuration for Mains Conduction Measurement

5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Conducted Emission

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

Test standard	: FCC Part 15.107(a)
Basic standard	: ANSI C63.4: 2014
Frequency range	: 0.15 – 30MHz
Limits	: FCC Part 15.107(a)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 07.04.2017 – 06.05.2017
Operation mode	: A, B
Earthing	: N/A
Ambient temperature	: 23.6 °C
Relative humidity	: 54%
Atmospheric pressure	:

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 - 6000MHz
Classification	: Class B
Limits	: FCC Part 15.109(a)
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 08.04.2017 – 01.06.2017
Operation mode	: A, B
Earthing	: N/A
Ambient temperature	: 23.5 °C
Relative humidity	: 51%
Atmospheric pressure	:

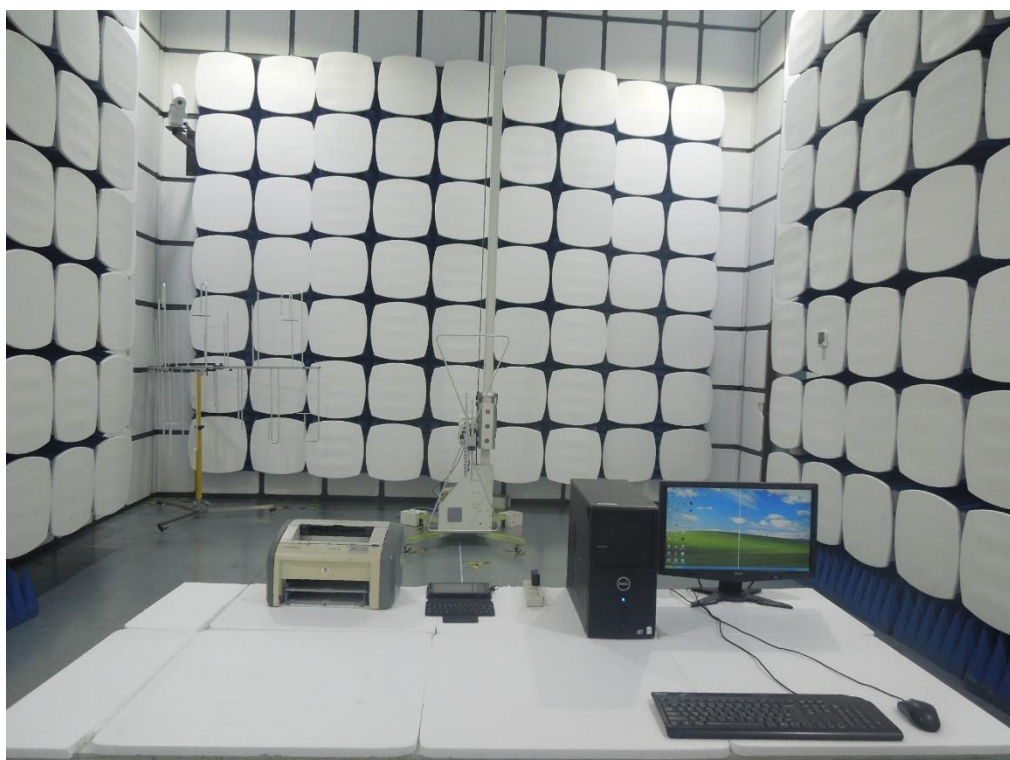
For the measurement records, refer to the Appendix A.

6 Photographs of the Test Set-Up

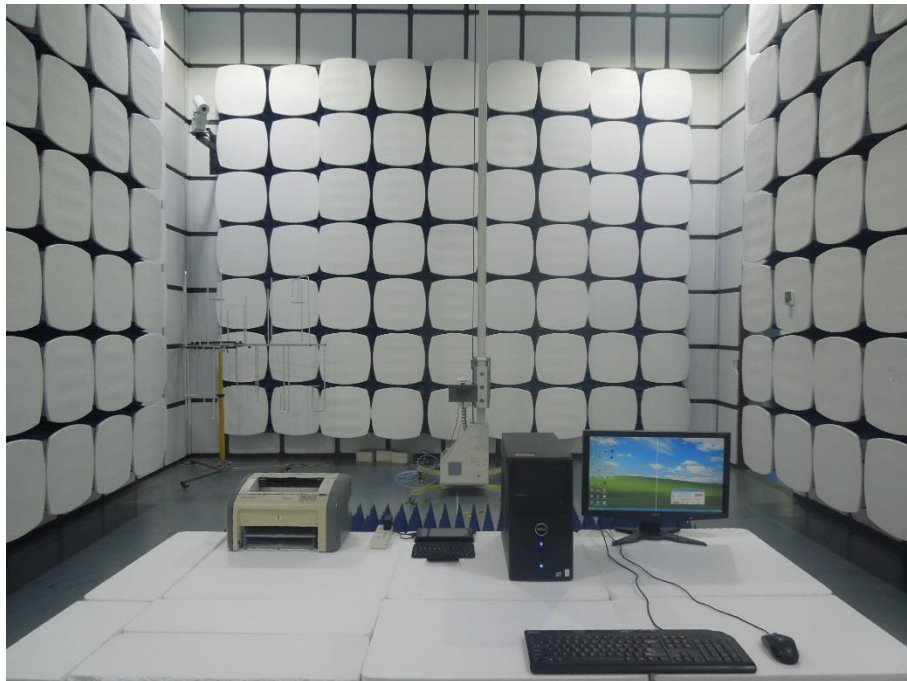
Photograph 1: Set-up for Conducted Emission



Photograph 2: Set-up for Radiated Emission (30MHz ~ 1GHz)



Photograph 3: Set-up for Radiated Emission (above 1GHz)



7 List of Tables

Table 1: List of Test and Measurement Equipment.....	5
Table 2: Technical Specification of EUT	7
Table 3: List of Accessories and Auxiliary Equipment.....	9

8 List of Photographs

Photograph 1: Set-up for Conducted Emission	14
Photograph 2: Set-up for Radiated Emission (30MHz ~ 1GHz)	14
Photograph 3: Set-up for Radiated Emission (1GHz ~ 6GHz).....	15

Appendix A

Test Results of Conducted Emission and Radiated Emission

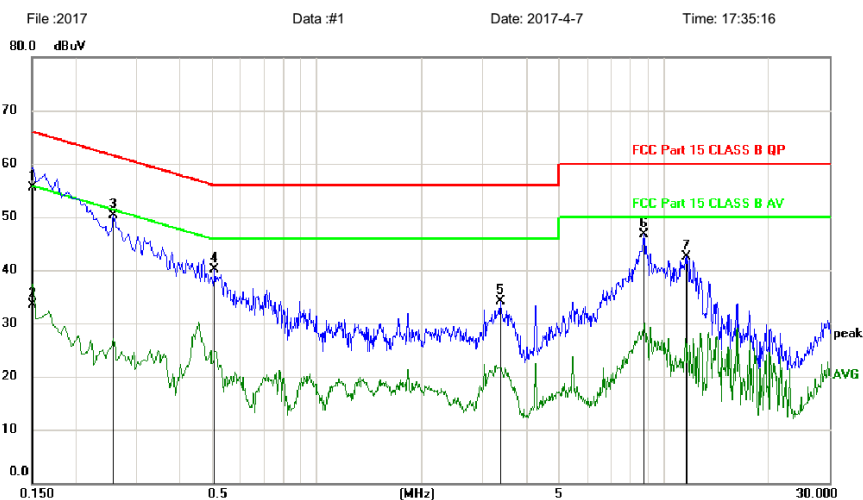
Only the worst case mode showed

Appendix A.1: Test Plots of Conducted Emission (MID7006A-L with DC IN)

Site: LAB
Limit: FCC Part 15 CLASS B QP
EUT: MID
M/N:
Mode: Charging and Data transmitting and play
Note:

Phase: **L1**
Power: AC 120V/60Hz
Temperature: 23.6
Humidity: 54 %

Conducted Emission Measurement



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1500	45.71	9.73	55.44	66.00	-10.56	QP	
2		0.1500	23.73	9.73	33.46	56.00	-22.54	AVG	
3		0.2580	40.62	9.76	50.38	61.50	-11.12	peak	
4		0.5055	30.36	9.78	40.14	56.00	-15.86	peak	
5		3.3675	24.12	10.07	34.19	56.00	-21.81	peak	
6		8.7450	36.39	10.31	46.70	60.00	-13.30	peak	
7		11.5890	32.14	10.35	42.49	60.00	-17.51	peak	

*:Maximum data x:Over limit !:over margin

(Reference Only)

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

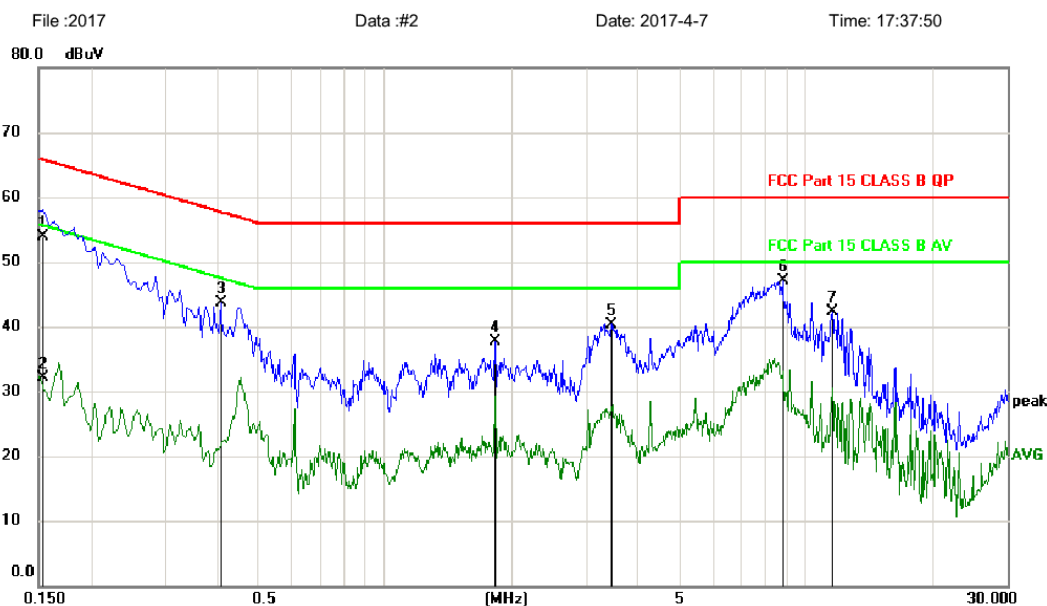
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Page: 1

Engineer Signature:

Site LAB	Phase: N	Temperature: 23.6
Limit: FCC Part 15 CLASS B QP	Power: AC 120V/60Hz	Humidity: 54 %
EUT: MID		
M/N:		
Mode: Charging and Data transmitting and play		
Note:		

Conducted Emission Measurement



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1545	44.17	9.73	53.90	65.75	-11.85	QP	
2		0.1545	22.30	9.73	32.03	55.75	-23.72	AVG	
3		0.4065	34.00	9.77	43.77	57.72	-13.95	peak	
4		1.8240	27.81	9.91	37.72	56.00	-18.28	peak	
5		3.4395	30.32	10.08	40.40	56.00	-15.60	peak	
6		8.8035	36.76	10.31	47.07	60.00	-12.93	peak	
7		11.5440	31.99	10.35	42.34	60.00	-17.66	peak	

*:Maximum data x:Over limit !:over margin

(Reference Only)

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

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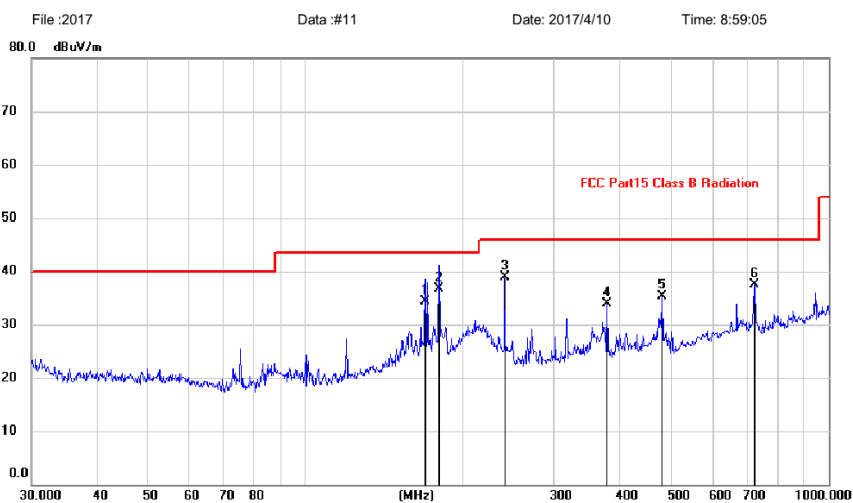
Engineer Signature:

Appendix A.2: Test Plots of Radiated Emission (MID7006A-L with DC IN)

Site LAB
Limit: FCC Part15 Class B Radiation
EUT:
M/N:
Mode:Charging and Data transmitting
Note:

Polarization: **Horizontal**
Power: AC 120V/60Hz
Distance:
Temperature: 23.5
Humidity: 51 %

Radiated Emission Measurement



No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	169.5990	20.51	13.80	34.31	43.50	-9.19	QP		
2 *	180.0165	24.63	12.15	36.78	43.50	-6.72	QP		
3	240.8303	26.85	11.99	38.84	46.00	-7.16	peak		
4	378.5842	18.59	15.36	33.95	46.00	-12.05	peak		
5	480.5276	18.25	17.08	35.33	46.00	-10.67	peak		
6	724.2610	16.17	21.24	37.41	46.00	-8.59	peak		

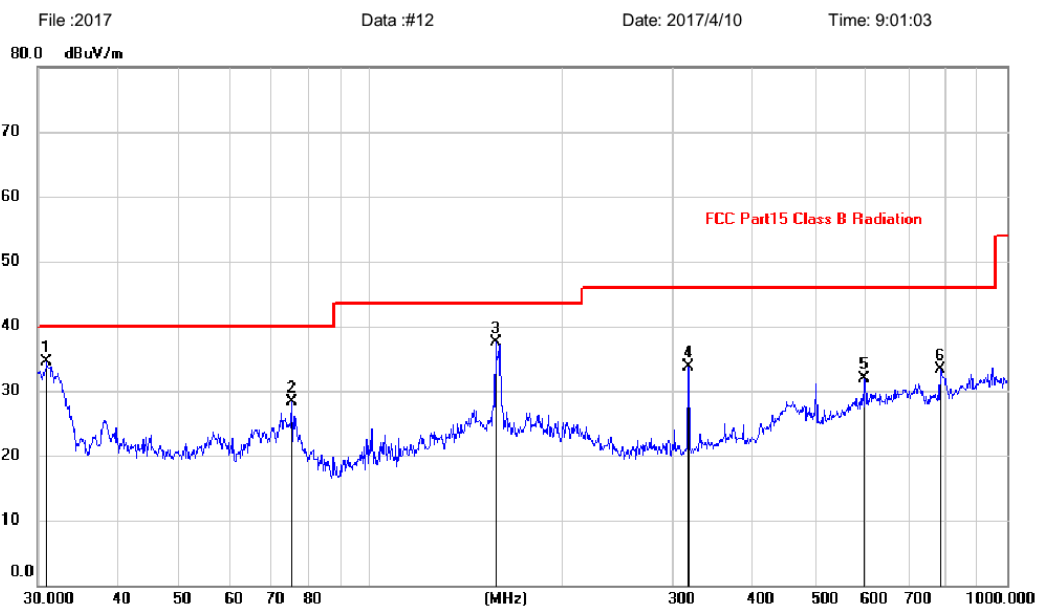
Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

Site LAB
Limit: FCC Part15 Class B Radiation
EUT:
M/N:
Mode:Charging and Data transmitting
Note:

Polarization: **Vertical**
Power: AC 120V/60Hz
Distance:

Temperature: 23.5
Humidity: 51 %

Radiated Emission Measurement



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	30.9619	21.16	13.35	34.51	40.00	-5.49	peak		
2		75.4464	18.25	10.15	28.40	40.00	-11.60	peak		
3		157.5588	22.85	14.57	37.42	43.50	-6.08	peak		
4		316.5890	19.95	13.79	33.74	46.00	-12.26	peak		
5		597.2234	12.66	19.24	31.90	46.00	-14.10	peak		
6		787.8513	11.25	21.98	33.23	46.00	-12.77	peak		

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

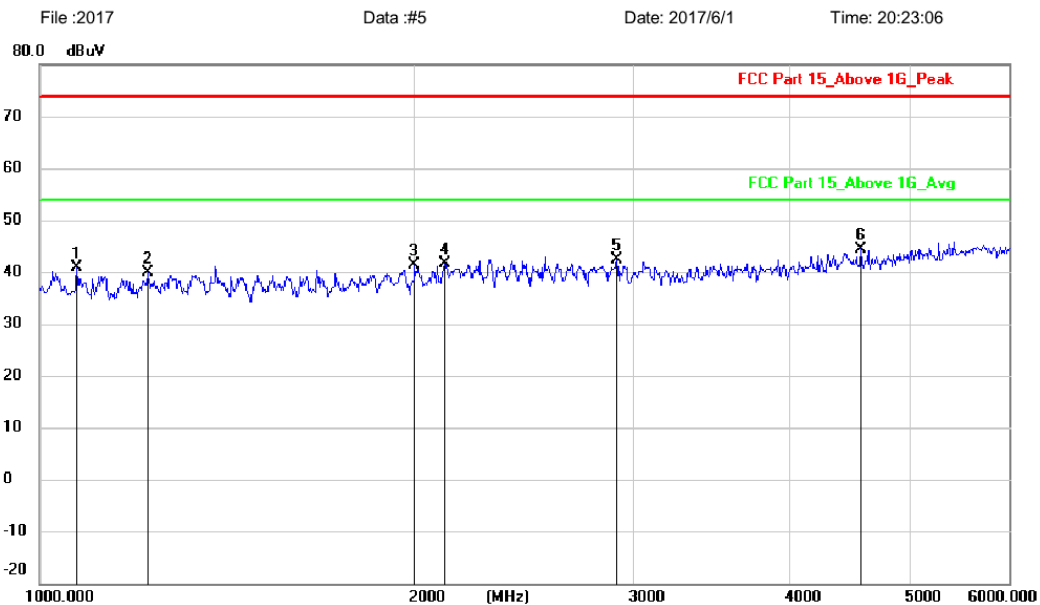
Produkte
Products

Site LAB
Limit: FCC Part 15_Above 1G_Peak
EUT: 平板 有 DC in port
M/N:
Mode:Charging and data transmitting
Note:

Polarization: **Vertical**
Power: DC 5V
Distance: 3m

Temperature: 23.5
Humidity: 51 %

Radiated Emission Measurement



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Antenna Height cm	Table Degree	
							Detector		degree	Comment
1		1070.531	49.41	-8.59	40.82	74.00	-33.18	peak		
2		1220.285	48.04	-8.06	39.98	74.00	-34.02	peak		
3		2001.917	46.72	-5.42	41.30	74.00	-32.70	peak		
4		2112.584	45.66	-4.02	41.64	74.00	-32.36	peak		
5		2907.123	44.89	-2.58	42.31	74.00	-31.69	peak		
6	*	4568.292	42.62	1.88	44.50	74.00	-29.50	peak		

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

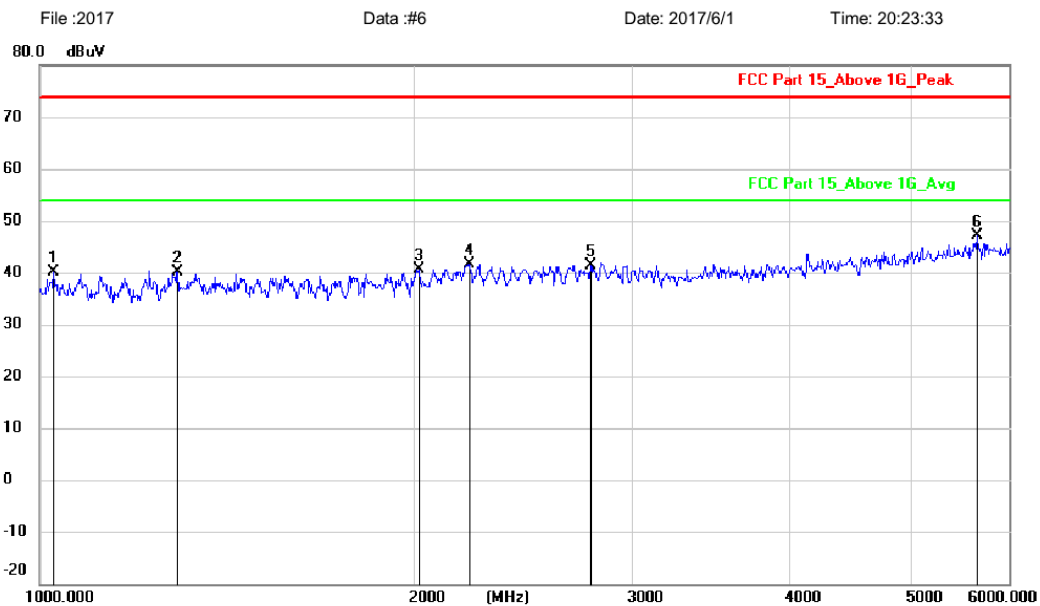
Produkte
Products

Site LAB
Limit: FCC Part 15_Above 1G_Peak
EUT: 平板有DC in port
M/N:
Mode:Charging and data transmitting
Note:

Polarization: **Horizontal**
Power: DC 5V
Distance: 3m

Temperature: 23.5
Humidity: 51 %

Radiated Emission Measurement



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Antenna Height cm	Table Degree	Comment
1		1027.268	48.67	-8.62	40.05	74.00	-33.95	peak		
2		1290.055	47.47	-7.42	40.05	74.00	-33.95	peak		
3		2016.330	45.79	-5.23	40.56	74.00	-33.44	peak		
4		2213.431	45.03	-3.33	41.70	74.00	-32.30	peak		
5		2774.670	44.28	-2.85	41.43	74.00	-32.57	peak		
6	*	5665.334	42.38	4.81	47.19	74.00	-26.81	peak		

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.