

EMC Test Report

ClientName : DongGuanPUSOUElectronicCo.,Ltd
Address : 5F,buildingA,zhiCheng Science Park,ShaChong 57th
Road,ChangAnTown
ProductName : Powerbank
Date : July.06,2021

ShenzhenAnbotekComplianceLaboratoryLimited



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TESTREPORT

Applicant :DongGuan PUSOU Electronic Co.,

LtdManufacturer :DongGuan PUSOU Electronic Co.,

LtdProductName :Powerbank

ModelNo. :PW65/PW68/PW72

TradeMark :N.A.

Rating(s) :Input:5V, 2A
Battery:DC3.7-4.2V,5000mAh**TestStandard(s) : EN55032:2015;
EN55035:2017;
(IEC61000-4-2;IEC61000-4-3)**

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the EN 55032, EN 55035 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt: June.20,2021

Date of Test: June.20~July.01,2021

Prepared By:



(Engineer/Winnie Huang)

Reviewer:



(Supervisor/Wen Wang)

Approved & Authorized Signer:



(Manager/King Kong Jin)

1. GeneralInformation

ClientInformation

Applicant	:	DongGuanPUSOUElectronicCo.,Ltd
Address	:	5F,buildingA,zhiChengSciencePark,ShaChong57thRoad,ChangAnTown
Manufacturer	:	DongGuanPUSOUElectronicCo.,Ltd
Address	:	5F,buildingA,zhiChengSciencePark,ShaChong57thRoad,ChangAnTown
Factory	:	DongGuanPUSOUElectronicCo.,Ltd
Address	:	5F,buildingA,zhiChengSciencePark,ShaChong57thRoad,ChangAnTown

DescriptionofDevice(EUT)

ProductName	:	Powerbank
ModelNo.	:	PW65/PW68/PW72
TradeMark	:	N.A.
TestPowerSupply	:	DC5Vviaadapter/DC3.7V
TestSampleNo.	:	1-1-1
Product Description	:	Adapter: N/A
Remark:(1)Foramore detailedfeaturesdescription,pleaserefertothemanufacturer’sspecifications ortheUser’sManual.		

AuxiliaryEquipmentUsedDuringTest

N/A	:	
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PretestModes	Descriptions
Mode1	Charging
Mode2	Discharging

ForMode1 BlockDiagramofTestSetup

DCmains EUT

ForMode2 BlockDiagramofTestSetup



TestSummary

TestItems	TestModes	Status
PowerLineConductedEmissionTest(150KHzTo30MHz)	/	N
RadiatedEmissionTest(30MHzTo1000MHz)	AllMode	P
ElectrostaticDischargeimmunityTest	AllMode	P
RFFieldStrengthsusceptibilityTest	AllMode	P
ElectricalFastTransient/BurstImmunityTest	/	N
SurgeImmunityTest	/	N
InjectedCurrentsSusceptibilityTest	/	N
MagneticFieldSusceptibilityTest	/	N
VoltageDipsandInterruptionsTest	/	N
P)Indicates“PASS”. N)Indicates“Notapplicable”.		

TestEquipmentList**RadiatedEmissionMeasurement**

Item	Equipment	Manufacturer	ModelNo.	SerialNo.	LastCal.	Cal.Interval
1.	EMITestReceiver	Rohde&Schwarz	ESCI	100627	Nov.04,2019	1Year
2.	Pre-amplifier	Schwarzbeck	BBV-9745	9745-075	Nov.04,2019	1Year
3.	BilogBroadband Antenna	SCHWARZBECK	VULB9163	01109	Nov.01,2019	1Year
4.	SoftwareName EZ-EMC	FerrariTechnology	EMEC-3A1	N/A	N/A	N/A

ElectrostaticDischargeMeasurement

Item	Equipment	Manufacturer	ModelNo.	SerialNo.	LastCal.	Cal.Interval
1.	ESDSimulators	emtest	ESDNX30.1	11891	Mar.07,2020	1Year

R/SImmunityMeasurement

Item	Equipment	Manufacturer	ModelNo.	SerialNo.	LastCal.	Cal.Interval
1	SignalGenerator	Agilent	N5182A	MY48180656	Nov.04,2019	1Year
2	Amplifier	Micotoop	MPA-80-1000-250	MPA1903096	Nov.04,2019	1Year
3	Amplifier	Micotoop	MPA-1000-6000-100	MPA1903122	Nov.04,2019	1Year
4	Log-PeriodicAntenna	Schwarzbeck	VULP9118E	00992	Apr.17,2020	1Year
5	HornAntenna	Instruments corporation	GTH-0118	351600	Nov.01,2019	1Year
6	PowerSensor	Agilent	E9301A	MY41498906	Nov.04,2019	1Year
7	PowerSensor	Agilent	E9301A	MY41498088	Nov.04,2019	1Year
8	PowerMeter	Agilent	E4419B	GB40202909	Nov.04,2019	1Year
9	FieldProbe	ETS-Lindgren	HI-6006	00212747	Apr.17,2020	1Year
10	software	EMtrace	EM3	N/A	N/A	N/A



Description of Test Facility

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

FCC-Registration No.: 184111

Shenzhen Anbotech Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111, September 30, 2020.

ISED-Registration No.: 8058A

Shenzhen Anbotech Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A, September 30, 2020.

Test Location

Shenzhen Anbotech Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. 518128

EMS Performance Criteria

- ✓ A: Normal performance within the specification limits
- ✓ B: Temporary degradation or loss of function or performance which is self-recoverable
- ✓ C: Temporary degradation or loss of function or performance which requires operator intervention or system reset
- ✓ D: Degradation or loss of function which is not recoverable due to damage of equipment (components) or software, or loss of data

Note: The manufacturer's specification may define effects on the EUT which may be considered insignificant, and therefore acceptable.

This classification may be used as a guide in formulating performance criteria, by committees responsible for generic, product and product-family standards, or as a framework for the agreement on performance criteria between the manufacturer and the purchaser, for example where no suitable generic, product or product-family standard exists.



2. RadiatedEmissionTest

TestStandardandLimit

RadiatedEmissionTestLimit			
TestLimit	Frequency (MHz)	DISTANCE (Meters)	FIELDSTRENGTHS LIMIT (dBμV/m)
	30~230	3	40
	230~1000	3	47
<p>Remark:(1)Thesmallerlimitshallapplyatthecombinationpointbetweentwofrequencybands. (2) Distancereferstothedistanceinmetersbetweenthemeasuringinstrumentantennaandtheclosed pointof anypart oftheEUT. (3) 3MLimit=10MLimit+k k=20log(D1/D2)=103MLimit=10M Limit+10 (D1=10M D2=3M)</p>			

TestSetup

GROUNDPLANE

EUTConfigurationonMeasurement

TheEN 55032 regulations test methodmust beused to findthe maximum
emissionduringradiatedemissionmeasurement.

OperatingConditionofEUT

SetuptheEUTasshowninSection2.2.

Turnonthepowerofallequipments.

LettheEUTworkintestmodeandmeasureit.

TestProcedure

The EUT is placed on a turn table which is 0.8 meter high above the ground. The turntablecanrotate360degreestodeterminethepositionofthemaximumemissionlevel.The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find outthe maximum emission level. Bilog antenna is used as a receiving antenna. Bothhorizontalandverticalpolarizationoftheantennaare setontest.

The bandwidth of the Receiver (ESCI) is set at

120kHz.TheEUTis testedin9*6*6Chamber.

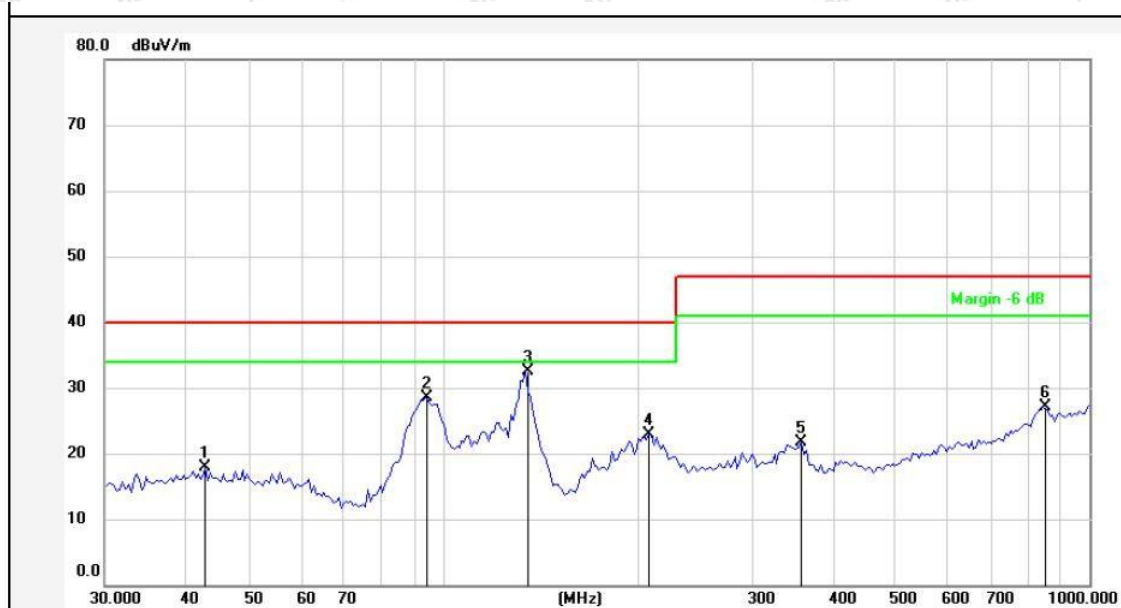
The testresultsarelistedin Section2.6.

TestResultsP**ASS**

Thefrequencyrangefrom30MHzto1000MHzisinvestigated.The test curves areshown inthefollowingpages.



Testitem: RadiationTest **Polarization:** Horizontal
Standard: (RE)EN55032 **PowerSource:** DC5Vviaadapter
Distance: 3m **Temp.(°C)/Hum.(%RH):** 23.5(°C)/58%RH
TestMode: Charging(Micro:5V,2A)



No.	Freq. (MHz)	Reading (dBuV)	Factor (°)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	42.9750	33.44	-15.60	17.84	40.00	-22.16	peak			
2	94.5941	44.73	-16.21	28.52	40.00	-11.48	peak			
3	134.3235	52.67	-20.08	32.59	40.00	-7.41	peak			
4	208.2148	40.49	-17.53	22.96	40.00	-17.04	peak			
5	358.5568	37.11	-15.50	21.61	47.00	-25.39	peak			
6	846.5708	35.48	-8.31	27.17	47.00	-19.83	peak			

Note: Result=Reading+Factor OverLimit=Result-Limit

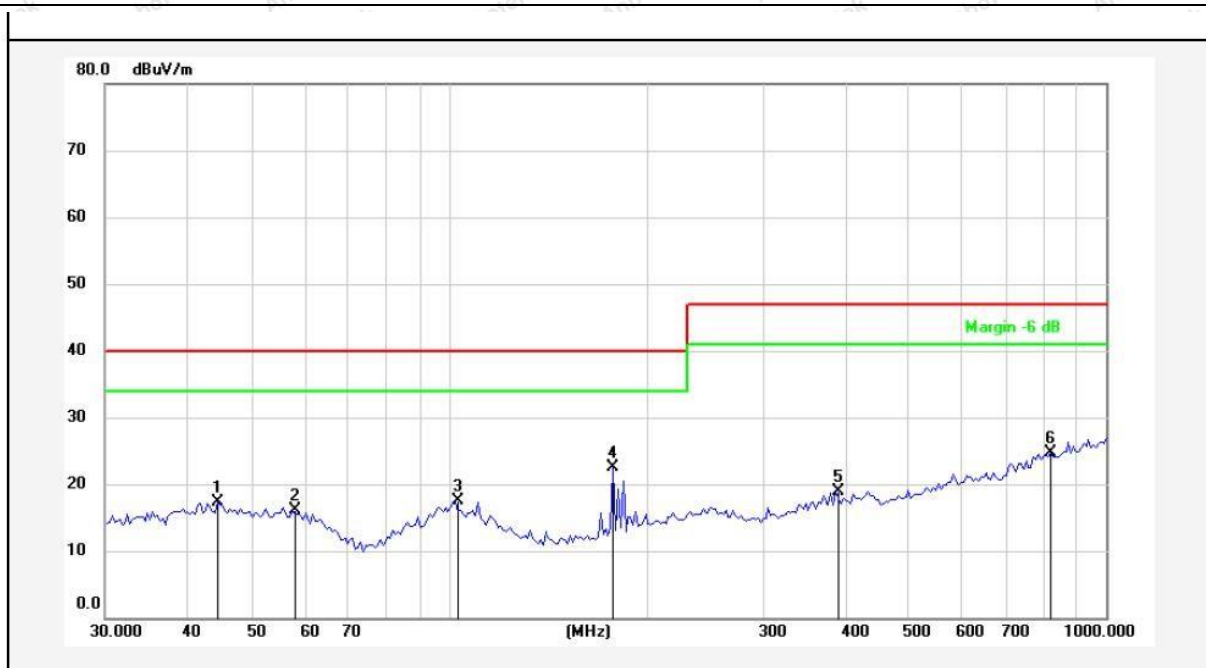
Testitem: RadiationTest **Polarization:** Vertical
Standard: (RE)EN55032 **PowerSource:** DC5Vviaadapter
Distance: 3m **Temp.(°C)/Hum.(%RH):** 23.5(°C)/58%RH
TestMode: Charging(Micro:5V,2A)



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	34.8212	40.50	-16.85	23.65	40.00	-16.35	peak			
2	53.5052	35.22	-16.06	19.16	40.00	-20.84	peak			
3	109.7960	40.95	-16.53	24.42	40.00	-15.58	peak			
4	133.8735	55.19	-20.05	35.14	40.00	-4.86	QP	100	0	
5	187.4241	41.13	-18.11	23.02	40.00	-16.98	peak			
6	358.5568	35.23	-15.50	19.73	47.00	-27.27	peak			

Note: Result=Reading+Factor OverLimit=Result-Limit

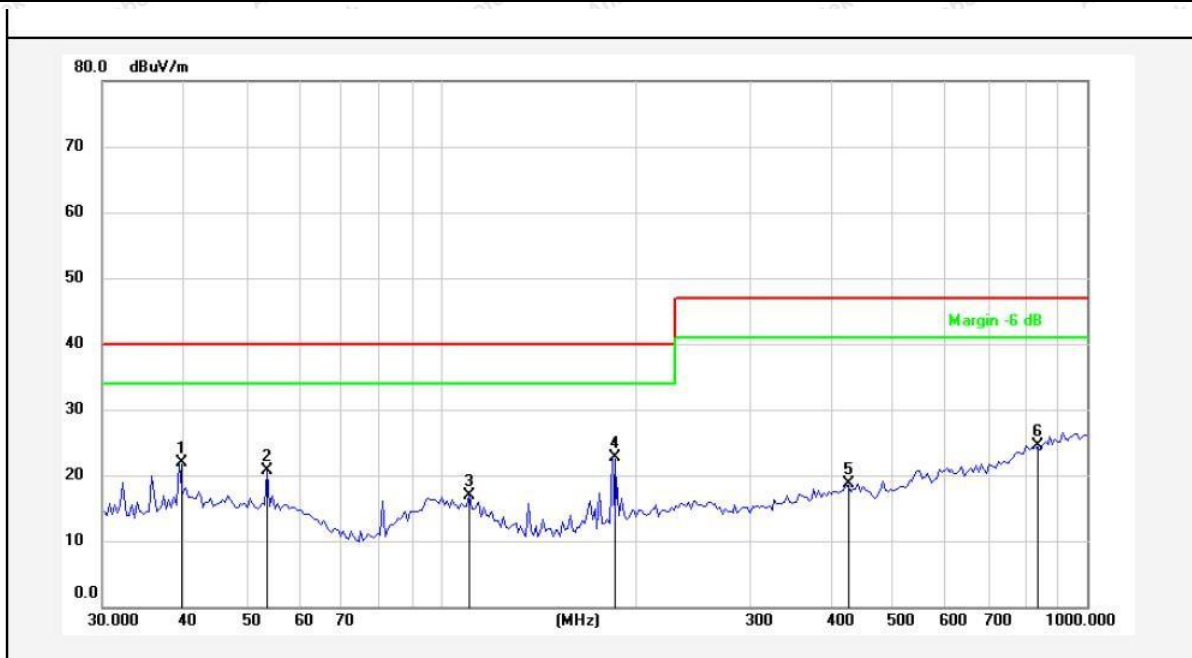
Testitem: RadiationTest **Polarization:** Horizontal
Standard: (RE)EN55032 **PowerSource:** DC5Vviaadapter
Distance: 3m **Temp.(°C)/Hum.(%RH):** 23.5(°C)/58%RH
TestMode: Charging(Type-C:5V,2A)



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	44.5086	32.86	-15.60	17.26	40.00	-22.74	peak			
2	57.8977	32.32	-16.28	16.04	40.00	-23.96	peak			
3	102.3597	33.30	-15.89	17.41	40.00	-22.59	peak			
4	177.8206	41.50	-18.95	22.55	40.00	-17.45	peak			
5	387.9920	33.97	-15.11	18.86	47.00	-28.14	peak			
6	824.5968	33.28	-8.62	24.66	47.00	-22.34	peak			

Note: Result=Reading+Factor OverLimit=Result-Limit

Testitem: RadiationTest **Polarization:** Vertical
Standard: (RE)EN55032 **PowerSource:** DC5Vviaadapter
Distance: 3m **Temp.(°C)/Hum.(%RH):** 23.5(°C)/58%RH
TestMode: Charging(Type-C:5V,2A)

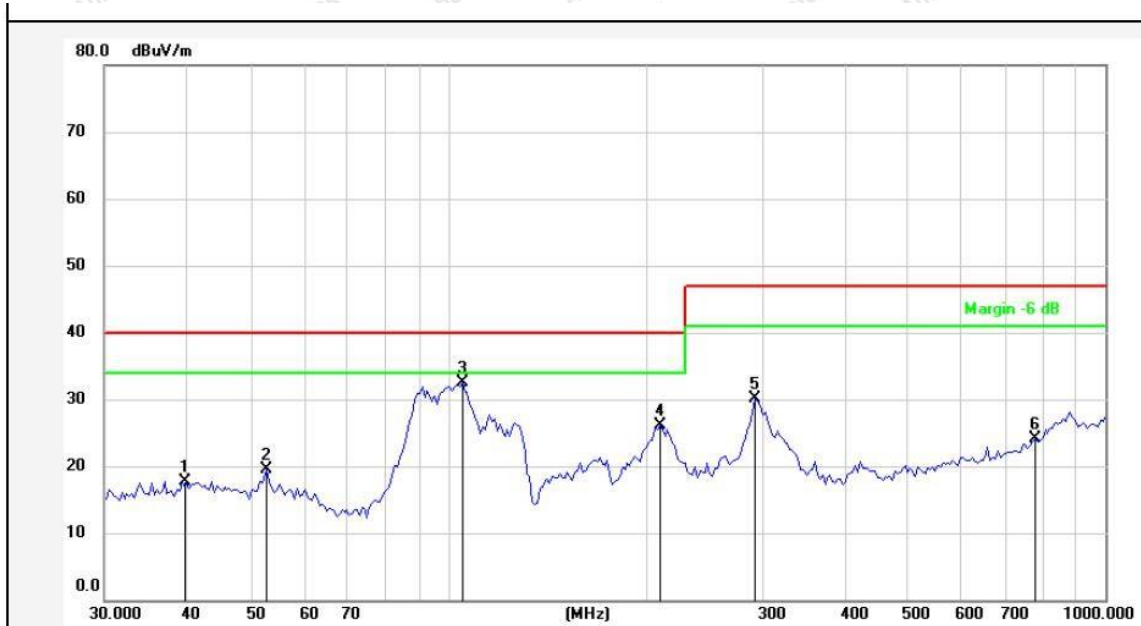


No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	39.3681	37.61	-15.73	21.88	40.00	-18.12	peak			
2	53.9763	36.68	-16.07	20.61	40.00	-19.39	peak			
3	110.7627	33.54	-16.68	16.86	40.00	-23.14	peak			
4	184.1667	41.01	-18.40	22.61	40.00	-17.39	peak			
5	423.5403	33.18	-14.40	18.78	47.00	-28.22	peak			
6	831.8574	33.07	-8.51	24.56	47.00	-22.44	peak			

Note: Result=Reading+Factor OverLimit=Result-Limit



Testitem: RadiationTest **Polarization:** Horizontal
Standard: (RE)EN55032 **PowerSource:** DC3.7V
Distance: 3m **Temp.(°C)/Hum.(%RH):** 24.2(°C)/52%RH
TestMode: Discharging(USB1:5V,1A+USB2:5V,1A)



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	39.3681	33.49	-15.73	17.76	40.00	-22.24	peak			
2	53.0382	35.45	-16.04	19.41	40.00	-20.59	peak			
3	105.0873	48.66	-16.13	32.53	40.00	-7.47	peak			
4	210.0482	43.52	-17.47	26.05	40.00	-13.95	peak			
5	293.0842	47.37	-17.24	30.13	47.00	-16.87	peak			
6	782.3453	33.47	-9.37	24.10	47.00	-22.90	peak			

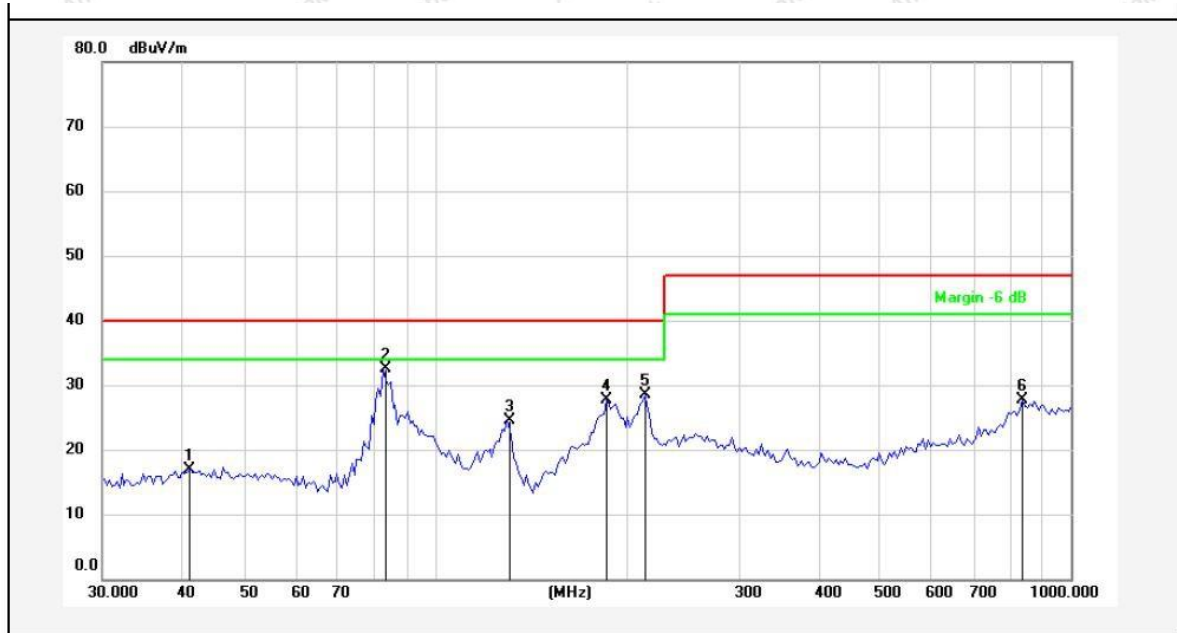
Note: Result=Reading+Factor OverLimit=Result-Limit

Testitem: RadiationTest **Polarization:** Vertical
Standard: (RE)EN55032 **PowerSource:** DC3.7V
Distance: 3m **Temp.(°C)/Hum.(%RH):** 23.5(°C)/58%RH
TestMode: Discharging(USB1:5V,1A+USB2:5V,1A)



Note: Result=Reading+Factor OverLimit=Result-Limit

Testitem: RadiationTest **Polarization:** Horizontal
Standard: (RE)EN55032 **PowerSource:** DC3.7V
Distance: 3m **Temp.(°C)/Hum.(%RH):** 24.2(°C)/52%RH
TestMode: Discharging(USB1:5V,2A)

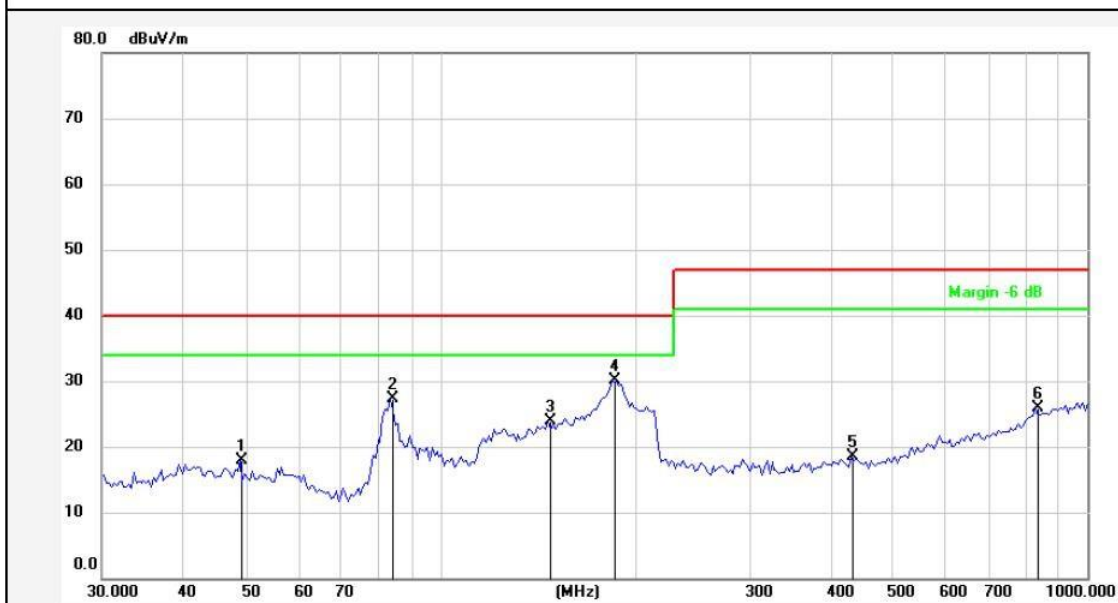


No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	41.1320	32.45	-15.58	16.87	40.00	-23.13	peak			
2	82.9385	51.94	-19.39	32.55	40.00	-7.45	peak			
3	129.6950	44.17	-19.73	24.44	40.00	-15.56	peak			
4	185.7882	45.94	-18.26	27.68	40.00	-12.32	peak			
5	213.7634	45.76	-17.34	28.42	40.00	-11.58	peak			
6	839.1818	36.03	-8.42	27.61	47.00	-19.39	peak			

Note: Result=Reading+Factor OverLimit=Result-Limit



Testitem: RadiationTest **Polarization:** Vertical
Standard: (RE)EN55032 **PowerSource:** DC3.7V
Distance: 3m **Temp.(°C)/Hum.(%RH):** 23.5(°C)/58%RH
TestMode: Discharging(USB1:5V,2A)



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	49.0145	33.81	-15.86	17.95	40.00	-22.05	peak			
2	83.6688	46.40	-19.12	27.28	40.00	-12.72	peak			
3	146.6304	44.23	-20.39	23.84	40.00	-16.16	peak			
4	184.1667	48.42	-18.40	30.02	40.00	-9.98	peak			
5	431.0316	32.82	-14.40	18.42	47.00	-28.58	peak			
6	831.8574	34.44	-8.51	25.93	47.00	-21.07	peak			

Note: Result=Reading+Factor OverLimit=Result-Limit

3. ElectrostaticDischargeImmunityTest

TestStandardandLevel

TestStandard:	EN55035(IEC61000-4-2)
PerformanceCriterion:	B
SeverityLevel:3/AirDischarge:±8kV,Level:2/ContactDischarge:±4kV	

TestLevel

Level	TestVoltage ContactDischarge(kV)	TestVoltage AirDischarge(kV)
1.	±2	±2
2.	±4	±4
3.	±6	±8
4.	±8	±15
X.	Special	Special

TestSetup

EUTConfigurationonMeasurement

Thefollowingequipmentsareinstalledonelectrostaticdischargeimmunitymeasurement to meet EN 55035 requirements and operating in a manner which tendstomaximize its emissioncharacteristics in anormalapplication.

OperatingConditionofEUT

SetuptheEUTasshown onSection3.2.

Turnonthepowerofallequipments.

Afterthat, lettheEUTworkintestmodemeasureit.

TestProcedure

AirDischarge:

This test is done on a non-conductive surface. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the discharge electrode shall be removed from the EUT. The generator is then re-triggered for a new single discharge and repeated 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed

ContactDischarge:

All the procedure shall be same as Section 3.5.1. except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

Indirect discharge for horizontal coupling plane

At least 20 single discharges shall be applied to the horizontal coupling plane, at points on each side of the EUT. The discharge electrode positions vertically at a distance of 0.1m from the EUT and with the discharge electrode touching the coupling plane.

Indirect discharge for vertical coupling plane

At least 20 single discharge shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m × 0.5m, is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

TestResults

PASS

Please refer to the following page.



ElectrostaticDischargeTestResults

Airdischarge :	±8.0kV	Temperature:	23.7℃
Contactdischarge:	±4.0kV	Humidity:	47%
PowerSupply:	DC5Vvia adapter/DC3.7V	Expertconclusion:	A
Numberofdischarge : 10		TestResult:	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Location		Kind A-AirDischarge C-ContactDischarge	Result
USBPort	4points	C	<input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D
Type-CPort	4points	C	<input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D
MicroPort	2points	C	<input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D
Slot	4points	A	<input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D
HCP	4points	C	<input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D
VCPofthe front	4points	C	<input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D
VCPofthe rear	4points	C	<input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D
VCPofthe left	4points	C	<input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D
VCPoftheright	4points	C	<input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D
Remark:DischargeshouldbeconsideredonContactandAirandHorizontalCouplingPlane(HCP)andVertical Coupling Plane(VCP).			

4. RFFieldStrengthSusceptibilityTest

TestStandardandLevel

TestStandard:	EN55035(IEC61000-4-3)
RequiredPerformance:	A
FrequencyRange:	80MHzto1000MHz,1800MHz,2600MHz,3500MHz,5000MHz
FieldStrength:	3V/m
Modulation:	1kHzSineWave,80%,AMModulation
FrequencyStep:	1%of precedingfrequencyvalue
PolarityofAntenna:	HorizontalandVertical
TestDistance:	3m
AntennaHeight:	1.5 m
DwellTime:	atleast0.5s

TestLevel

Level	FieldStrength V/m
1.	1
2.	3
3.	10
X.	Special

TestSetup

3Meters

Anechoic
Chamber

EUT
andSimulatorsSys
tem

0.8Meter

Measurement

Room PowerAmp

Signal
Generator

Shenzhen Anbotech Compliance Laboratory Limited

EUT Configuration on Measurement

The following equipments are installed on RFField Strengths susceptibility Measurement to meet EN 55035 requirements and operating in a manner which tends to maximize its emission characteristics in a normal application.

Operating Condition of EUT

Set up the EUT as shown on Section 4.2.

Turn on the power of all equipments.

After that, let the EUT work in test mode to measure it.

Test Procedure

The EUT and support equipment, which are placed on a table that is 0.8 meter above ground and the testing was performed in a fully-anechoic chamber. The testing distance from antenna to the EUT was 3 meters.

- 1) 80MHz to 1000MHz the field strength level was 3V/m, 1800MHz, 2600MHz, 3500MHz, 5000MHz the field strength level was 3V/m.
- 2) The frequency range is swept from 80MHz to 1000MHz with the signal 80% amplitude modulated with a 1kHz sine wave.
- 3) The frequency range is swept from 1800MHz, 2600MHz, 3500MHz, 5000MHz with the signal 80% amplitude modulated with a 1kHz sine wave.
- 4) The dwell time at each frequency shall be not less than the time necessary for the EUT to be able to respond, but shall in no case be less than 0.5s.
- 5) The test was performed with the EUT exposed to both vertically and horizontally polarized fields on each of the four sides.

Measuring

Results PASS

Please refer to the following page.



RFFieldStrengthSusceptibilityTestResults

Field Strength:	3V/m	Temperature:	23.7℃
Expertconclusion:	A	Humidity:	47%
PowerSupply:	DC5Vviaadapter/ DC3.7V	TestResult:	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
DwellTime:	1s		

FrequencyRange	AntennaPolarity	R.F. FieldStrength	Azimuth	Result
80MHz~1000MHz	H /V	3V/m(rms)	Front	<div><input checked="" type="checkbox"/> A<input type="checkbox"/> B</div> <div><input type="checkbox"/> C<input type="checkbox"/> D</div>
			Rear	
			Left	
			Right	
1800MHz 2600MHz 3500MHz 5000MHz	H /V	3V/m(rms)	Front	<div><input checked="" type="checkbox"/> A<input type="checkbox"/> B</div> <div><input type="checkbox"/> C<input type="checkbox"/> D</div>
			Rear	
			Left	
			Right	

APPENDIXI--TESTSETUPPHOTOGRAPH

PhotoofRadiatedEmissionTest



PhotoofElectrostaticDischargeImmunityTest



Photo of R Field Strengths susceptibility Test



APPENDIXII--EXTERNALPHOTOGRAPH

Code:AB-EMC-02-b

CELabel

1. TheCEconformitymarkingmustconsistoftheinitials‘CE’takingthefollowingform:

IftheCEmarkingisreducedorenlarged,the proportionsgivenintheabovegraduateddrawingmustberespected.

2. TheCEmarkingmusthaveaheightofatleast5mmexceptwherethisisnotpossibleonaccountofthenatureoftheapparatus.

3. TheCEmarkingmustbeaffixedtotheproductortoitsdataplate.Additionallyitmustbeaffixedtothepackaging,if any,andtotheaccompanyingdocuments.

4. TheCEmarkingmustbeaffixedvisibly,legiblyandindelibly.It must havethesameheight astheinitials‘CE’.

EndofReport

