

Prüfbericht-Nr.: <i>Test Report No.:</i>	50050477 002	Auftrags-Nr.: <i>Order No.:</i>	164058674	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>	22.03.2016	
Auftraggeber: <i>Client:</i>	Lenovo (Beijing) Limited, No. 6, Chuang Ye Road, Shangdi Information Industry Base, Haidian District, Beijing 100085, P.R. China			
Prüfgegenstand: <i>Test item:</i>	ThinkVision X24 Pro Wireless Charging Stand			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	HH-1601			
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>	05.05.2016			
Prüfmuster-Nr.: <i>Test sample No.:</i>	A000355351-002, A000355351-003			
Prüfzeitraum: <i>Testing period:</i>	10.05.2016 - 15.07.2016			
Ort der Prüfung: <i>Place of testing:</i>	Accurate Technology 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:		
28.07.2016 Sam Lin / Assistant Manager		28.07.2016 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>
Sonstiges / Other: This report is for JBP equipment class. FCC ID: A5MHH1601				
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 specification(s) F(ail) = failed a.m. test specification(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>				

Prüfbericht - Nr.: 50050477 002
Test Report No.

Seite 2 von 16
Page 2 of 16

TEST SUMMARY

5.1.1 RADIATED EMISSIONS

RESULT: Pass

5.1.2 CONDUCTED EMISSIONS

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	TEST REQUIREMENT & TEST SUITES - PART 15 SUBPART B	12
5.1.1	<i>Radiated emissions.....</i>	<i>12</i>
5.1.2	<i>Conducted emissions.....</i>	<i>13</i>
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

2. Test Sites

2.1 Test Facilities

Accurate Technology Co., Ltd.

(FCC Registration No.: 752051 & IC Registration Number: 5077A-2)

F1, Bldg A, Changyuan New Material Port, Keyuan Rd., Science & Industry Park,
Nanshan District, Shenzhen, 518057, P.R. China

The tests at the test site 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

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
Conducted emissions				
Test Receiver	R & S	ESCS30	100307	Jan.9, 2017
L.I.S.N.	Schwarzbeck	NLSK8126	8126431	Jan.9, 2017
Pulse Limiter	R & S	ESH3-Z2	100815	Jan.9, 2017
50ΩCoaxial Switch	Anritsu Corp	MP59B	6200283933	Jan.9, 2017
Radiated emissions				
Spectrum Analyzer	R & S	FSV40	101495	Jan.9, 2017
Test Receiver	R & S	ESCS30	100307	Jan.9, 2017
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan.14, 2017
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan.14, 2017
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan.14, 2017
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan.14, 2017
RF Switching Unit+PreAMP	Compliance Direction	RSU-M2	38322	Jan.9, 2017
Pre-Amplifier	R & S	CBLU11835 40-01	3791	Jan.9, 2017
50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	Jan.9, 2017
RF Coaxial Cable	SUHNER	N-3m	No.8	Jan.9, 2017
RF Coaxial Cable	RESENBERGER	N-3.5m	No.9	Jan.9, 2017
RF Coaxial Cable	SUHNER	N-6m	No.10	Jan.9, 2017
RF Coaxial Cable	RESENBERGER	N-12m	No.11	Jan.9, 2017
RF Coaxial Cable	RESENBERGER	N-0.5m	No.12	Jan.9, 2017

2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, 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,

Items		Extended Uncertainty
CE	Disturbance Voltage (dBuV)	U=1.94dB, k=2, σ =95%
RE (9kHz-30MHz)	Field strength (dBuV/m)	U=3.08dB, k=2, σ =95%
RE (30-1000MHz)	Field strength (dBuV/m)	U=4.42dB, k=2, σ =95%
RE (above 1000MHz)	Field strength (dBuV/m)	U=4.06dB, k=2, σ =95%

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 Accurate Technology Co., Ltd. facility located at F1, Bldg A, Changyuan New Material Port, Keyuan Rd., Science & Industry Park, Nanshan District, Shenzhen, 518057, 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 wireless charging stand which is only can be used for the specified display by connected with Type C connector. And the product also can be used as a transmitter of wireless charger. The product also contains Mini DP connector and USB 3.0 port.

It supports Bluetooth Low Energy and A4WP technology.

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:	ThinkVision X24 Pro Wireless Charging Stand
Type Designation:	HH-1601
FCC ID:	A5MHH1601
IC:	5903G-HH1601
Type of Equipment:	Class B digital equipment
Equipment Class:	JBP
Operating Voltage:	DC 20V via AC/DC Adapter
Operating Temperature Range:	0°C to 35°C

Table 3: Marketed AC/DC adapter

Description	Manufacturer	Model	S/N	Rating
AC/DC adapter	Lenovo	ADLX90NCC3A	11S45N0249Z1 ZX1B58T89X	Input: AC 100-240V, 50/60Hz, 1.2A MAX. Output: DC 20V, 4.5A

3.3 Independent Operation Modes

The basic operation modes are:

- A. A4WP wireless charging
 - 1. Charging
 - i. Minimum load
 - ii. Medium load
 - iii. Maximum load
- B. Bluetooth Low Energy operating
 - 1. Transmitting
 - i. Low channel
 - ii. Middle channel
 - iii. High channel
 - 2. Receiving
 - i. Low channel
 - ii. Middle channel
 - iii. High channel
- C. USB 3.0 connect to PC with data transferring
- D. Mini Display port connect to PC with data transferring
- E. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- Bill of Material	- Circuit Diagram
- PCB Layout	- Instruction Manual
- Photo Document	- Rating Label

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.

4.3 Special Accessories and Auxiliary Equipment

Table 4: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N
Notebook PC	Lenovo	ThinkPad X240	SL10F31638
Mobile Phone	Apple	MG4J2 CH/A	F17NTK2QG5MV
Printer	HP	HP LaserJet 1015	CNFG030424
Display	LENOVO	ThinkVision X24 Pro	--

Table 5: List of Accessories and Cables

Interface(s) / Port (s)	Max. cable length, Shielding	Cable classification
USB port	Shielded, 170cm	USB cable
Mini-Display port	Shielded, 170cm	Mini-Display cable

4.4 Countermeasures to achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test below 1 GHz

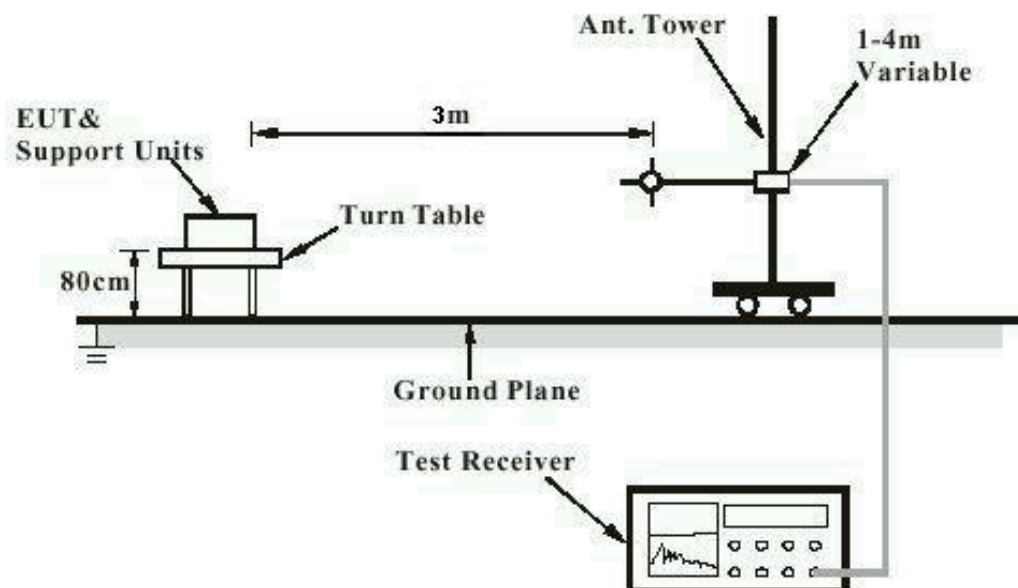


Diagram of Measurement Configuration for Radiation Test above 1 GHz

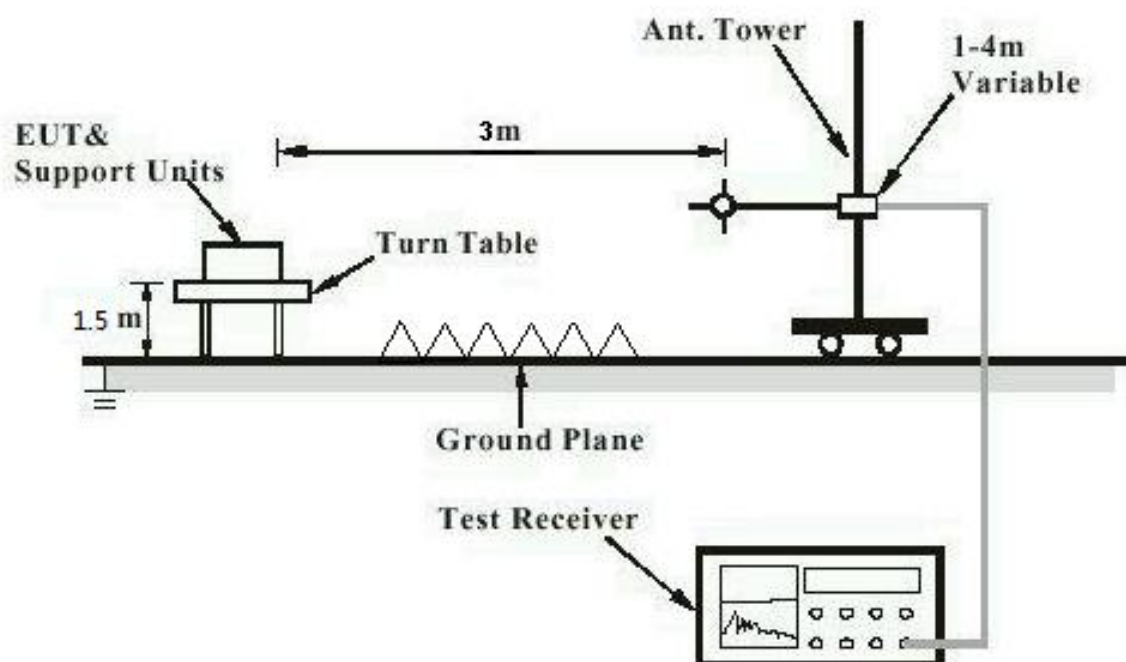
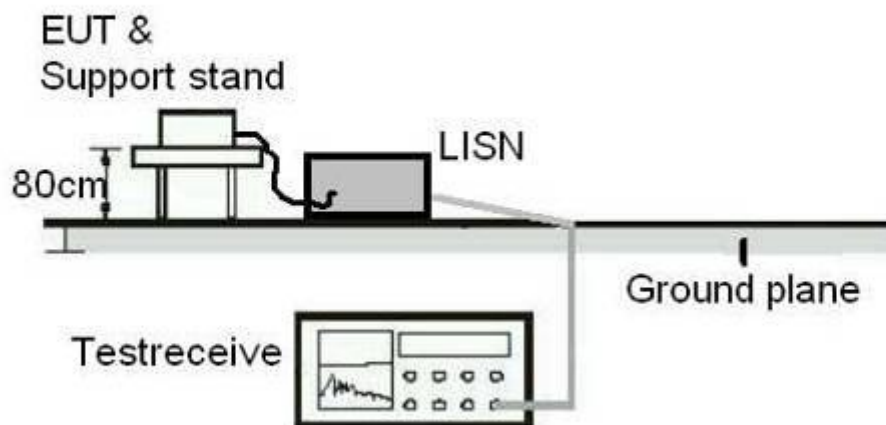


Diagram of Measurement Equipment Configuration for Conduction Measurement

5. Test Results

5.1 Test Requirement & Test Suites - Part 15 Subpart B

5.1.1 Radiated emissions

RESULT:**Pass**

Date of testing	:	2016-05-10 to 2016-07-15
Test standard	:	FCC Part 15.109 ICES-003 Issue 5
Basic standard	:	ANSI C63.4: 2014
Frequency range	:	30 – 1000MHz, 1GHz – 6GHz
Limits	:	FCC Part 15.109(a) Table 5 of ICES-003
Kind of test site	:	3m Semi-Anechoic Chamber

Test Setup

Input Voltage	:	DC 20V via AC/DC Adapter
Operation Mode	:	C+D
Ambient temperature	:	23°C
Relative humidity	:	50%
Atmospheric pressure	:	101.0 kPa

Refer to attached Appendix A for details.

5.1.2 Conducted emissions

RESULT:**Pass**

Date of testing	:	2016-05-10 to 2016-07-15
Test standard	:	FCC Part 15.107 RSS-Gen Clause 8.8 ICES-003 Issue 5
Basic standard	:	ANSI C63.4: 2014
Frequency range	:	0.15MHz – 30MHz
Limits	:	FCC Part 15.107(a) Table 3 of RSS-Gen Table 2 of ICES-003
Kind of test site	:	Shield Room

Test Setup

Input Voltage	:	DC 20V via AC/DC Adapter
Operation Mode	:	C+D
Ambient temperature	:	23°C
Relative humidity	:	50%
Atmospheric pressure	:	101.0 kPa

The EUT supports A4WP wireless charging technology and operates at 6.78 MHz fundamental ISM frequency as the charging energy transfer. According to theory of operation and exemption condition that described in FCC Part 18, the limits for conducted disturbance defined in this standard do not apply to the fundamental ISM frequency. Therefore the test result at 6.78 MHz frequency can be ignored.

Refer to attached Appendix A for details.

7. List of Tables

Table 1: List of Test and Measurement Equipment	5
Table 2: Technical Specification of EUT	7
Table 3: Marketed AC/DC adapter	7
Table 4: List of Accessories and Auxiliary Equipment	9
Table 5: List of Accessories and Cables	9

8. List of Photographs

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

Appendix A

Test Results

APPENDIX A.1: RADIATED EMISSIONS 2
*Operation mode C+D with display resolution 800*600 2*
*Operation mode C+D with display resolution 1280*720 6*
*Operation mode C+D with display resolution 1920*1080..... 10*

APPENDIX A.2: CONDUCTED EMISSIONS..... 14
*Operation mode C+D with display resolution 800*600 14*
*Operation mode C+D with display resolution 1280*720 16*
*Operation mode C+D with display resolution 1920*1080..... 18*

Appendix A.1: Radiated Emissions

Operation mode C+D with display resolution 800*600

**ACCURATE TECHNOLOGY CO., LTD.**
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Fax:+86-0755-26503396

Job No.: lenovo #1189

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: ThinkVision X24 Pro Wireless Charging Stand

Mode: C+D(800*600)

Model: HH-1601

Manufacturer: Lenovo

Polarization: Horizontal

Power Source: AC 120V/60Hz

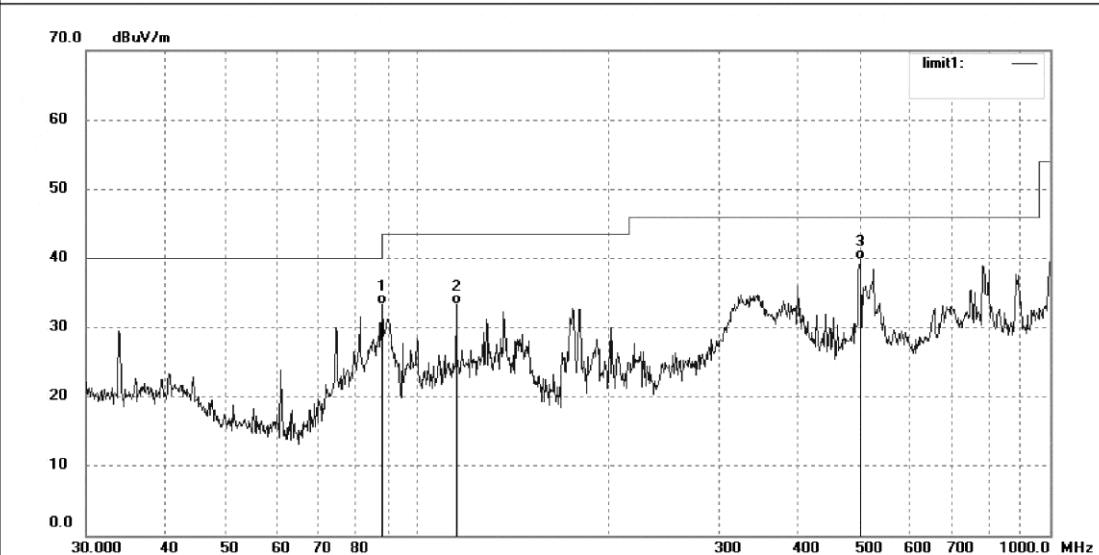
Date: 16/06/08/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	88.0328	48.53	-15.19	33.34	43.50	-10.16	QP			
2	115.3204	46.45	-13.15	33.30	43.50	-10.20	QP			
3	501.1789	44.63	-4.83	39.80	46.00	-6.20	QP			

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Job No.: lenovo #1190

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: ThinkVision X24 Pro Wireless Charging Stand

Mode: C+D(800*600)

Model: HH-1601

Manufacturer: Lenovo

Polarization: Vertical

Power Source: AC 120V/60Hz

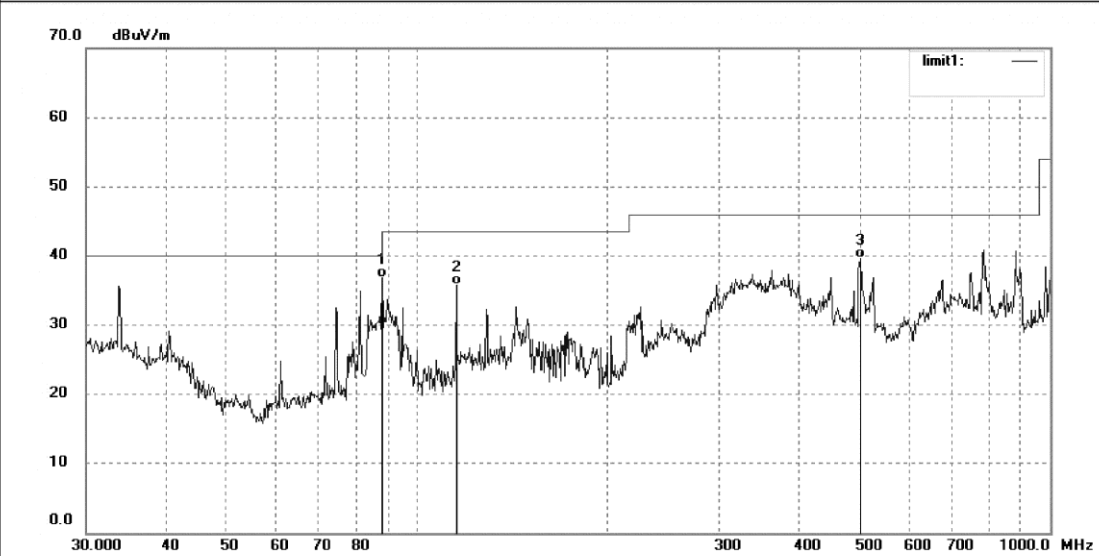
Date: 16/06/08/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	88.0328	52.04	-15.19	36.85	43.50	-6.65	QP			
2	115.3204	48.92	-13.15	35.77	43.50	-7.73	QP			
3	501.1789	44.47	-4.83	39.64	46.00	-6.36	QP			



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Job No.: lenovo #1191

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: ThinkVision X24 Pro Wireless Charging Stand

Mode: C+D(800*600)

Model: HH-1601

Manufacturer: Lenovo

Polarization: Vertical

Power Source: AC 120V/60Hz

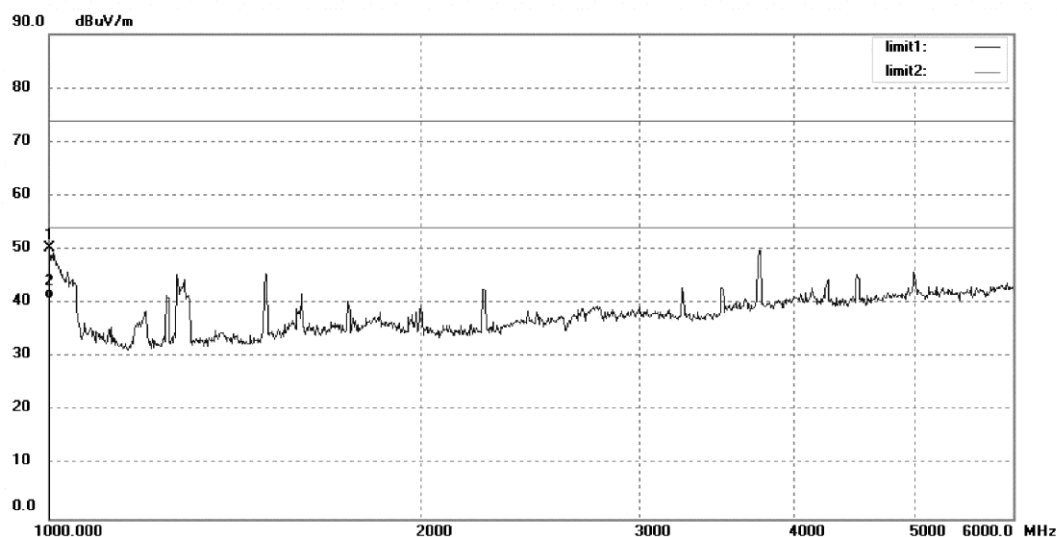
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Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1001.793	62.69	-12.41	50.28	74.00	-23.72	peak			
2	1001.793	53.23	-12.41	40.82	54.00	-13.18	AVG			

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Job No.: lenovo #1192

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: ThinkVision X24 Pro Wireless Charging Stand

Mode: C+D(800*600)

Model: HH-1601

Manufacturer: Lenovo

Polarization: Horizontal

Power Source: AC 120V/60Hz

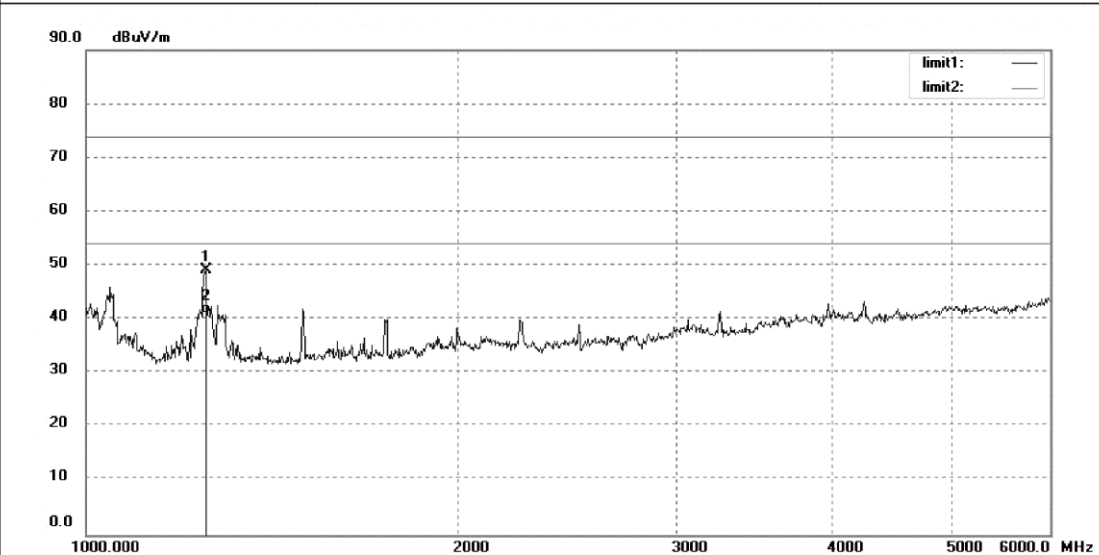
Date: 16/06/08/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1248.794	61.56	-12.30	49.26	74.00	-24.74	peak			
2	1248.794	53.25	-12.30	40.95	54.00	-13.05	AVG			

Operation mode C+D with display resolution 1280*720

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Fax:+86-0755-26503396

Job No.: lenovo #1187

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: ThinkVision X24 Pro Wireless Charging Stand

Mode: C+D(1280*720)

Model: HH-1601

Manufacturer: Lenovo

Polarization: Vertical

Power Source: AC 120V/60Hz

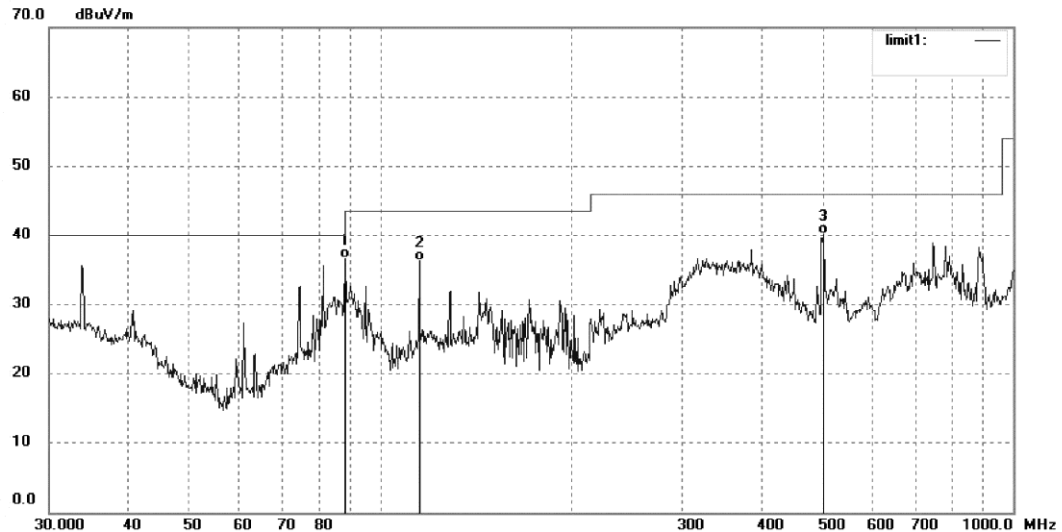
Date: 16/06/08/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	88.0328	51.78	-15.19	36.59	43.50	-6.91	QP			
2	115.3204	49.49	-13.15	36.34	43.50	-7.16	QP			
3	501.1789	44.96	-4.83	40.13	46.00	-5.87	QP			

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Job No.: lenovo #1188

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: ThinkVision X24 Pro Wireless Charging Stand

Mode: C+D(1280*720)

Model: HH-1601

Manufacturer: Lenovo

Polarization: Horizontal

Power Source: AC 120V/60Hz

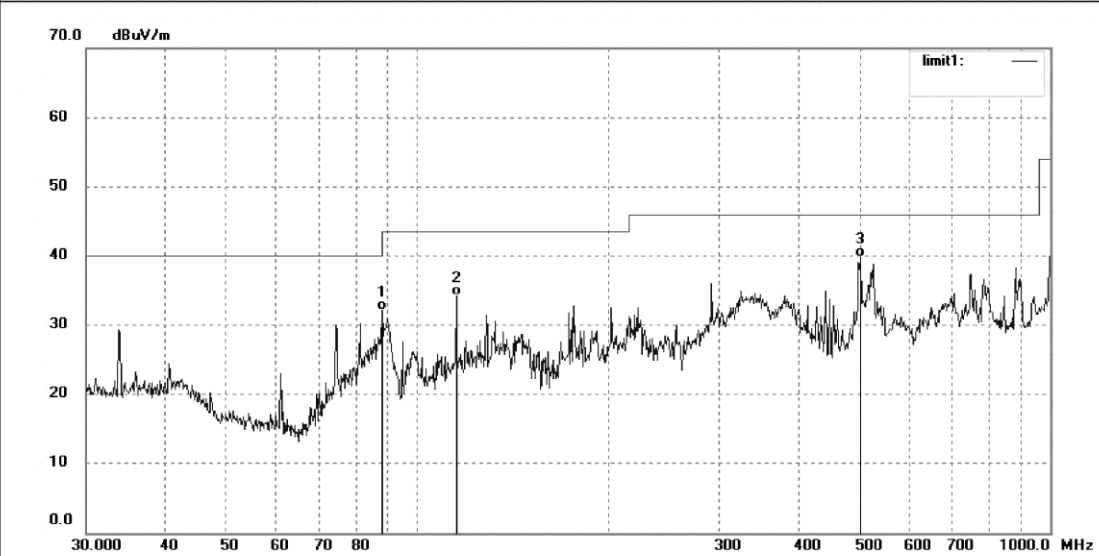
Date: 16/06/08/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	88.0328	47.30	-15.19	32.11	43.50	-11.39	QP			
2	115.3204	47.33	-13.15	34.18	43.50	-9.32	QP			
3	501.1789	44.73	-4.83	39.90	46.00	-6.10	QP			

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Job No.: lenovo #1193

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: ThinkVision X24 Pro Wireless Charging Stand

Mode: C+D(1280*720)

Model: HH-1601

Manufacturer: Lenovo

Polarization: Horizontal

Power Source: AC 120V/60Hz

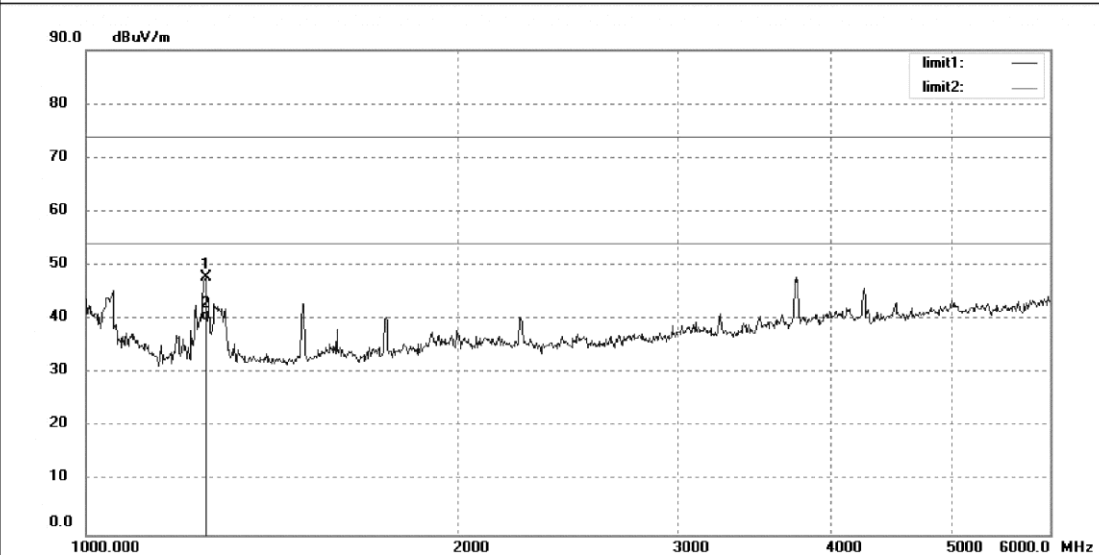
Date: 16/06/08/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1248.794	60.01	-12.30	47.71	74.00	-26.29	peak			
2	1248.794	52.12	-12.30	39.82	54.00	-14.18	AVG			



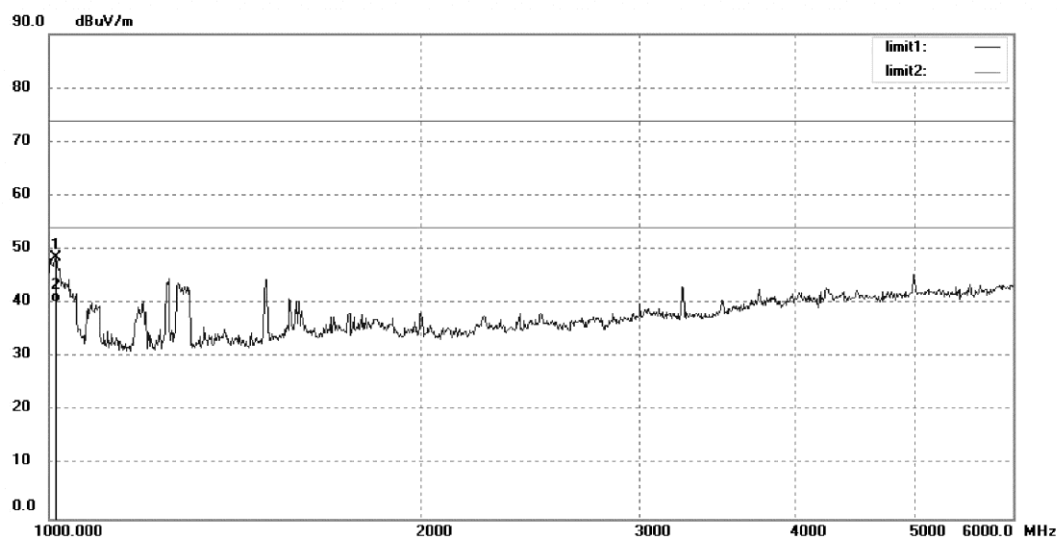
ACCURATE TECHNOLOGY CO., LTD.
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: lenovo #1194
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: ThinkVision X24 Pro Wireless Charging Stand
Mode: C+D(1280*720)
Model: HH-1601
Manufacturer: Lenovo

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 16/06/08/
Time:
Engineer Signature: LGWADE
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1012.621	60.98	-12.47	48.51	74.00	-25.49	peak			
2	1012.621	52.71	-12.47	40.24	54.00	-13.76	AVG			

Operation mode C+D with display resolution 1920*1080

**ACCURATE TECHNOLOGY CO., LTD.**
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 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: lenovo #1185

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: ThinkVision X24 Pro Wireless Charging Stand

Mode: C+D(1920*1080)

Model: HH-1601

Manufacturer: Lenovo

Polarization: Horizontal

Power Source: AC 120V/60Hz

Date: 16/06/08/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	88.0328	51.87	-15.19	36.68	43.50	-6.82	QP			
2	501.1789	44.15	-4.83	39.32	46.00	-6.68	QP			
3	785.0934	40.31	-0.32	39.99	46.00	-6.01	QP			

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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: lenovo #1186

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: ThinkVision X24 Pro Wireless Charging Stand

Mode: C+D(1920*1080)

Model: HH-1601

Manufacturer: Lenovo

Polarization: Vertical

Power Source: AC 120V/60Hz

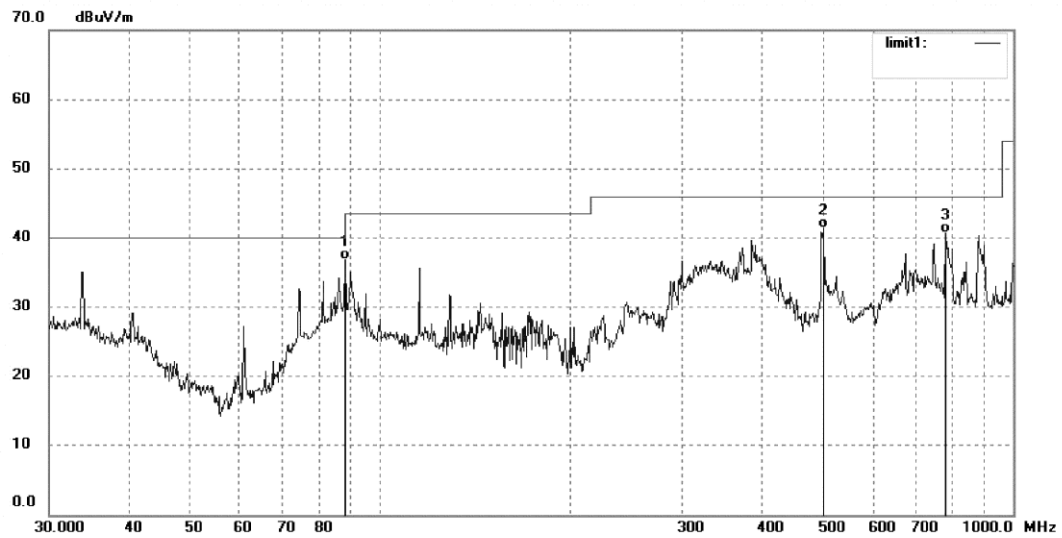
Date: 16/06/08/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	88.0328	52.00	-15.19	36.81	43.50	-6.69	QP			
2	501.1789	46.24	-4.83	41.41	46.00	-4.59	QP			
3	782.3452	41.09	-0.37	40.72	46.00	-5.28	QP			



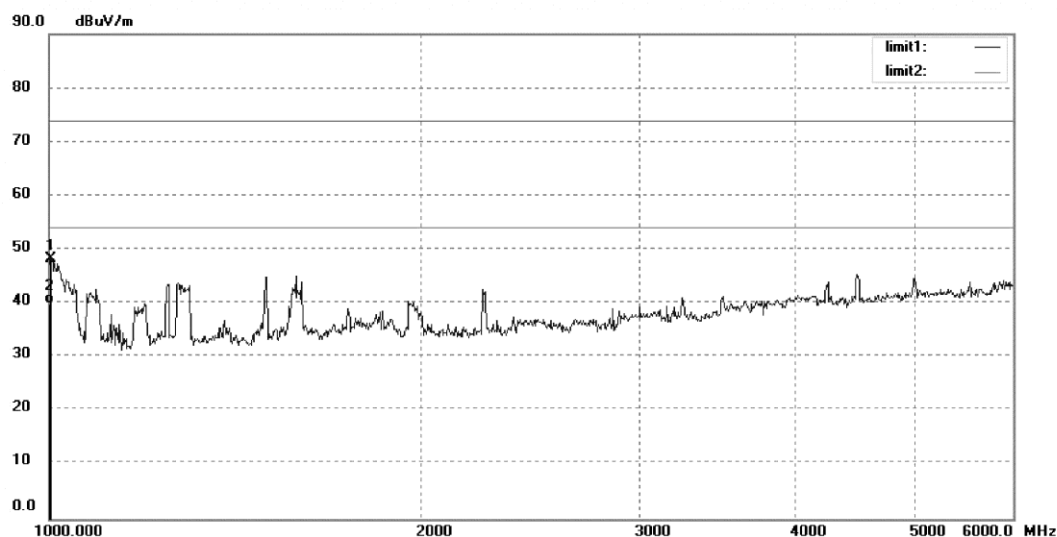
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: lenovo #1195
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: ThinkVision X24 Pro Wireless Charging Stand
Mode: C+D(1920*1080)
Model: HH-1601
Manufacturer: Lenovo

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 16/06/08/
Time:
Engineer Signature: LGWADE
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1003.590	60.69	-12.42	48.27	74.00	-25.73	peak			
2	1003.590	52.36	-12.42	39.94	54.00	-14.06	AVG			

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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: lenovo #1196

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: ThinkVision X24 Pro Wireless Charging Stand

Mode: C+D(1920*1080)

Model: HH-1601

Manufacturer: Lenovo

Polarization: Horizontal

Power Source: AC 120V/60Hz

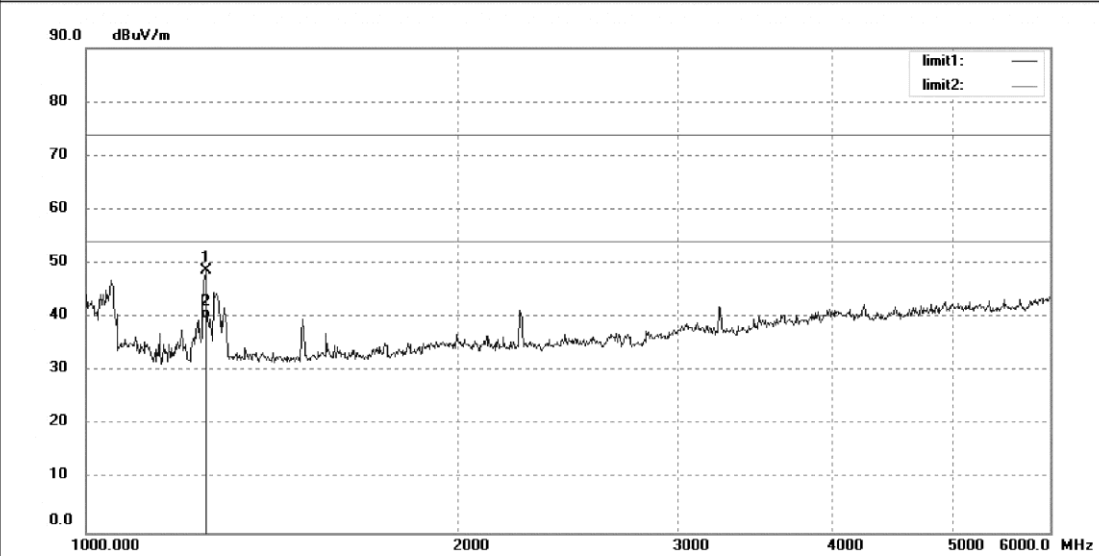
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Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1248.794	60.91	-12.30	48.61	74.00	-25.39	peak			
2	1248.794	52.10	-12.30	39.80	54.00	-14.20	AVG			

Appendix A.2: Conducted Emissions

Operation mode C+D with display resolution 800*600

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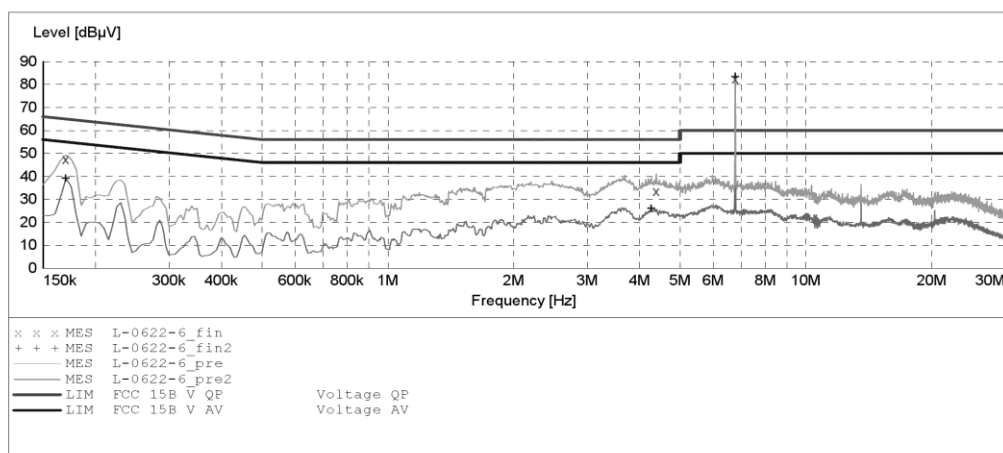
CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: ThinkVision X24 Pro Wireless Charging Stand M/N:HH-1601
 Manufacturer: Lenovo
 Operating Condition: C+D(800*600)
 Test Site: 1#Shielding Room
 Operator: LGWADE
 Test Specification: N 120V/60Hz
 Comment: Mains Port
 Start of Test: 6/22/2016 /

SCAN TABLE: "V 9K-30MHz fin"

Short Description: SUB STD VTERM2 1.70

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	NSLK8126 2008
150.0 kHz	30.0 MHz	5.0 kHz	Average			
			QuasiPeak	1.0 s	9 kHz	NSLK8126 2008
			Average			



MEASUREMENT RESULT: "L-0622-6_fin"

6/22/2016

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.170000	47.30	10.5	65	17.7	QP	N	GND
4.390000	33.40	11.1	56	22.6	QP	N	GND
6.780000	82.30	11.2	60	-22.3	QP	N	GND

MEASUREMENT RESULT: "L-0622-6_fin2"

6/22/2016

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.170000	39.10	10.5	55	15.9	AV	N	GND
4.270000	25.90	11.1	46	20.1	AV	N	GND
6.780000	83.20	11.2	50	-33.2	AV	N	GND

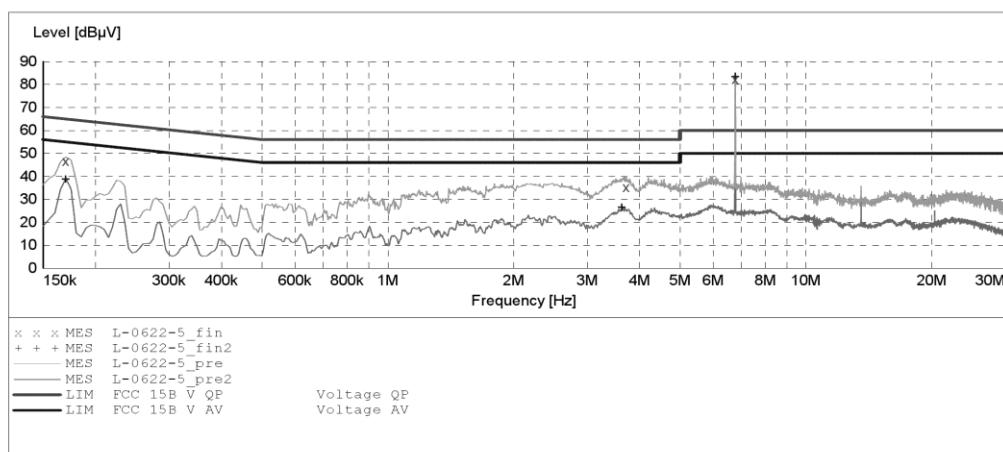
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: ThinkVision X24 Pro Wireless Charging Stand M/N:HH-1601
 Manufacturer: Lenovo
 Operating Condition: C+D(800*600)
 Test Site: 1#Shielding Room
 Operator: LGWADE
 Test Specification: L 120V/60Hz
 Comment: Mains Port
 Start of Test: 6/22/2016 /

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB_STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz NSLK8126 2008
 Average
 150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average



MEASUREMENT RESULT: "L-0622-5_fin"

6/22/2016

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.170000	46.50	10.5	65	18.5	QP	L1	GND
3.720000	35.10	11.1	56	20.9	QP	L1	GND
6.780000	82.20	11.2	60	-22.2	QP	L1	GND

MEASUREMENT RESULT: "L-0622-5_fin2"

6/22/2016

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.170000	38.50	10.5	55	16.5	AV	L1	GND
3.630000	26.30	11.1	46	19.7	AV	L1	GND
6.780000	83.10	11.2	50	-33.1	AV	L1	GND

Operation mode C+D with display resolution 1280*720

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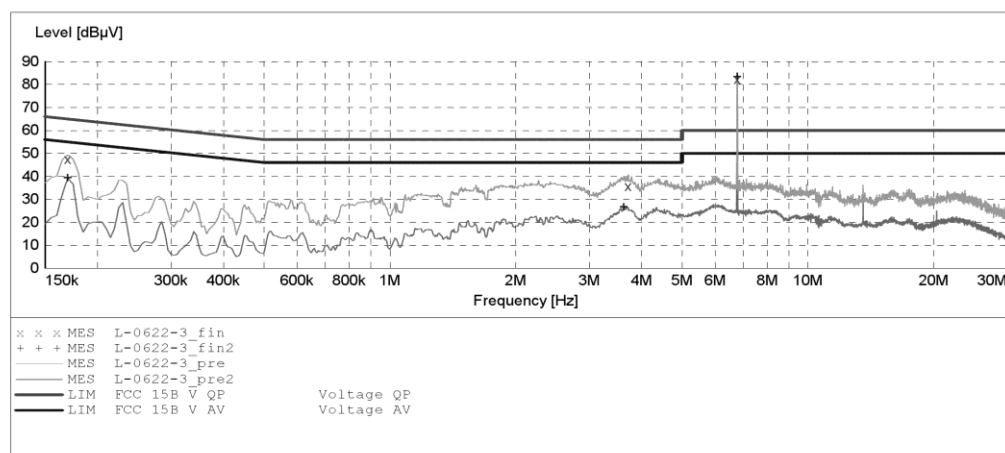
CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: ThinkVision X24 Pro Wireless Charging Stand M/N:HH-1601
 Manufacturer: Lenovo
 Operating Condition: C+D(1280*720)
 Test Site: 1#Shielding Room
 Operator: LGWADE
 Test Specification: N 120V/60Hz
 Comment: Mains Port
 Start of Test: 6/22/2016 /

SCAN TABLE: "V 9K-30MHz fin"

Short Description: SUB STD VTERM2 1.70

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	NSLK8126 2008
Average						
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	NSLK8126 2008
Average						



MEASUREMENT RESULT: "L-0622-3_fin"

6/22/2016

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.170000	47.40	10.5	65	17.6	QP	N	GND
3.720000	35.70	11.1	56	20.3	QP	N	GND
6.780000	82.20	11.2	60	-22.2	QP	N	GND

MEASUREMENT RESULT: "L-0622-3_fin2"

6/22/2016

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.170000	39.30	10.5	55	15.7	AV	N	GND
3.630000	26.50	11.1	46	19.5	AV	N	GND
6.780000	83.20	11.2	50	-33.2	AV	N	GND

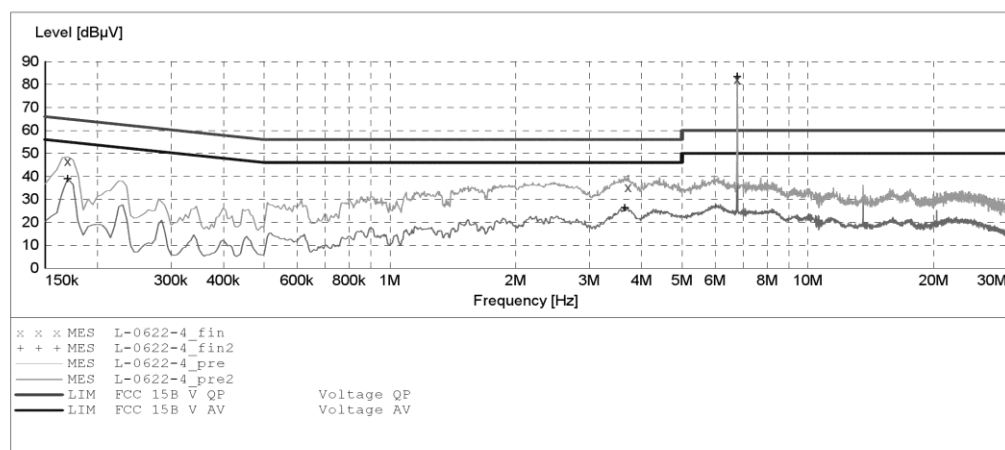
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: ThinkVision X24 Pro Wireless Charging Stand M/N:HH-1601
 Manufacturer: Lenovo
 Operating Condition: C+D(1280*720)
 Test Site: 1#Shielding Room
 Operator: LGWADE
 Test Specification: L 120V/60Hz
 Comment: Mains Port
 Start of Test: 6/22/2016 /

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB_STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz NSLK8126 2008
 Average
 150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average



MEASUREMENT RESULT: "L-0622-4_fin"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.170000	46.60	10.5	65	18.4	QP	L1	GND
3.720000	35.10	11.1	56	20.9	QP	L1	GND
6.780000	82.10	11.2	60	-22.1	QP	L1	GND

MEASUREMENT RESULT: "L-0622-4_fin2"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.170000	38.80	10.5	55	16.2	AV	L1	GND
3.650000	26.20	11.1	46	19.8	AV	L1	GND
6.780000	83.10	11.2	50	-33.1	AV	L1	GND

Operation mode C+D with display resolution 1920*1080

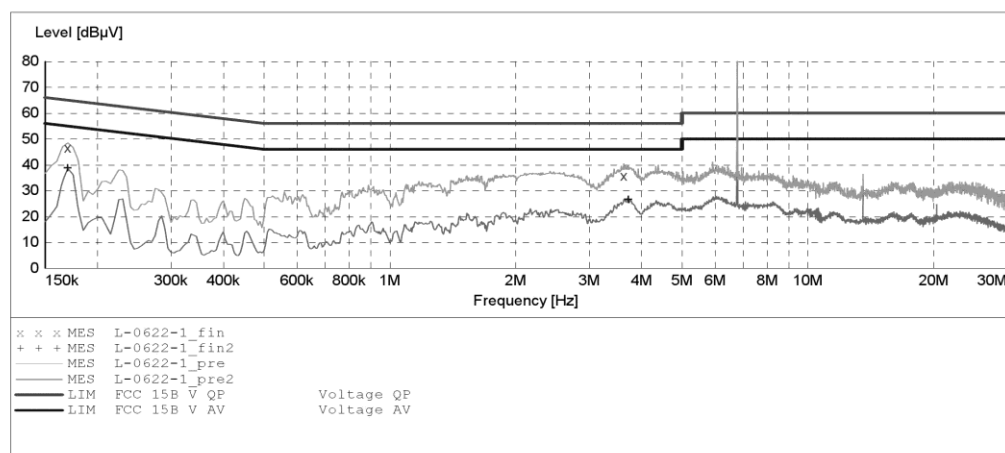
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: ThinkVision X24 Pro Wireless Charging Stand M/N:HH-1601
 Manufacturer: Lenovo
 Operating Condition: C+D(1920*1080)
 Test Site: 1#Shielding Room
 Operator: LGWADE
 Test Specification: L 120V/60Hz
 Comment: Mains Port
 Start of Test: 6/22/2016 /

SCAN TABLE: "V 9K-30MHz fin"

Short Description: SUB STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz NSLK8126 2008
 Average
 150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average



MEASUREMENT RESULT: "L-0622-1_fin"

6/22/2016

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.170000	46.60	10.5	65	18.4	QP	L1	GND
3.630000	35.60	11.1	56	20.4	QP	L1	GND
6.780000	82.10	11.2	60	-22.1	QP	L1	GND

MEASUREMENT RESULT: "L-0622-1_fin2"

6/22/2016

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.170000	38.60	10.5	55	16.4	AV	L1	GND
3.720000	26.50	11.1	46	19.5	AV	L1	GND
6.780000	83.00	11.2	50	-33.0	AV	L1	GND

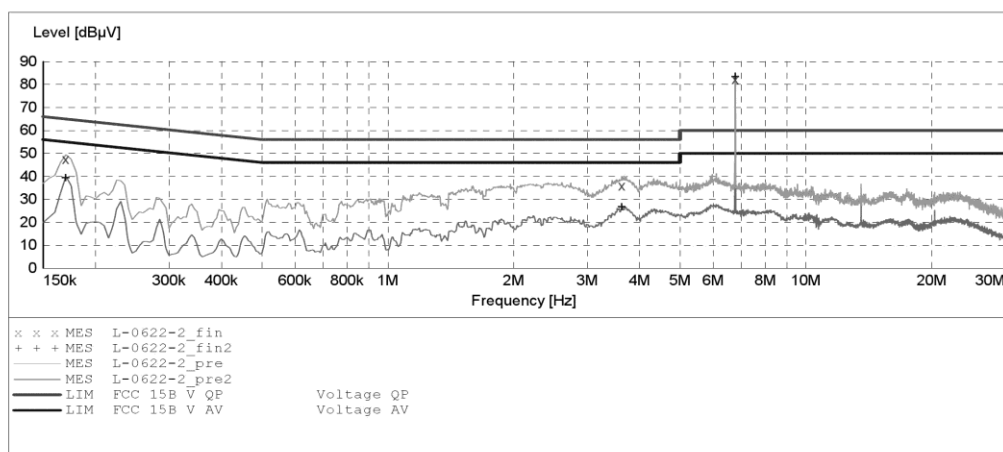
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CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: ThinkVision X24 Pro Wireless Charging Stand M/N:HH-1601
 Manufacturer: Lenovo
 Operating Condition: C+D(1920*1080)
 Test Site: 1#Shielding Room
 Operator: LGWADE
 Test Specification: N 120V/60Hz
 Comment: Mains Port
 Start of Test: 6/22/2016 /

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB_STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz NSLK8126 2008
 Average
 150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average



MEASUREMENT RESULT: "L-0622-2_fin"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.170000	47.30	10.5	65	17.7	QP	N	GND
3.630000	35.70	11.1	56	20.3	QP	N	GND
6.780000	82.20	11.2	60	-22.2	QP	N	GND

MEASUREMENT RESULT: "L-0622-2_fin2"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.170000	39.30	10.5	55	15.7	AV	N	GND
3.630000	26.50	11.1	46	19.5	AV	N	GND
6.780000	83.20	11.2	50	-33.2	AV	N	GND