



FCC TEST REPORT

For

WYBOTICS CO., LTD.

Underwater cleaning equipment wireless charging seat

Test Model: WY210

Prepared for : WYBOTICS CO., LTD.
Address : No.30, 4th Street Zhongnan, West Zone, TEDA, Tianjin, China

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
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Date of receipt of test sample : May 27, 2024
Number of tested samples : 2
Sample No. : A240516079-1, A240516079-2
Serial number : Prototype
Date of Test : May 27, 2024 ~ May 22, 2025
Date of Report : May 23, 2025



**FCC TEST REPORT
FCC CFR 47 PART 15C****Report Reference No.** : LCSA04094083EE**Date Of Issue** : May 23, 2025**Testing Laboratory Name** : Shenzhen LCS Compliance Testing Laboratory Ltd.**Address** : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Shajing Street,
Baoan District, Shenzhen, China**Testing Location/ Procedure** : Full application of Harmonised standards ■
Partial application of Harmonised standards □
Other standard testing method □**Applicant's Name** : WYBOTICS CO., LTD.**Address** : No.30, 4th Street Zhongnan, West Zone, TEDA, Tianjin, China**Test Specification****Standard** : FCC CFR 47 PART 15C**Test Report Form No.** : TRF-4-E-168 A/0**TRF Originator** : Shenzhen LCS Compliance Testing Laboratory Ltd.**Master TRF** : Dated 2011-03**Shenzhen LCS Compliance Testing Laboratory Ltd. All rights reserved.**

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Test Item Description : Underwater cleaning equipment wireless charging seat**Trade Mark** : N/A**Test Model** : WY210**Ratings** : For AC Adapter Input: 100-240V~, 50/60Hz, 2.5A
Adapter Output: 29.4V=3.0A, 88.2W**Result** : PASS**Compiled by:**

Ling Zhu/ Administrator

Supervised by:

Jack Liu / Technique principal

Approved by:

Gavin Liang/ Manager



**FCC TEST REPORT**

Test Report No. : LCSA04094083EE	<u>May 23, 2025</u> Date of issue
--	--------------------------------------

Test Model	: WY210
EUT	: Underwater cleaning equipment wireless charging seat
Applicant	: WYBOTICS CO., LTD.
Address	: No.30, 4th Street Zhongnan, West Zone, TEDA, Tianjin, China
Telephone	: /
Fax	: /
Manufacturer	: WYBOTICS CO., LTD.
Address	: No.30, 4th Street Zhongnan, West Zone, TEDA, Tianjin, China
Telephone	: /
Fax	: /
Factory	: WYBOTICS CO., LTD.
Address	: No.30, 4th Street Zhongnan, West Zone, TEDA, Tianjin, China
Telephone	: /
Fax	: /

Test Result	PASS
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Revision History

Shenzhen LCS Compliance Testing Laboratory Ltd.
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Scan code to check authenticity



Report Version	Issue Date	Revision Content	Revised By
000	May 23, 2025	Initial Issue	--





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1. GENERAL INFORMATION

1.1 Description of Device (EUT)

EUT	: Underwater cleaning equipment wireless charging seat
Test Model	: WY210
Power Supply	: For AC Adapter Input: 100-240V~, 50/60Hz, 2.5A Adapter Output: 29.4V $\pm$ 3.0A, 88.2W
Hardware Version	: /
Software Version	: /
Bluetooth	:
Frequency Range	: 2402MHz~2480MHz
Channel Number	: 79 channels for Bluetooth V5.0 (DSS) 40 channels for Bluetooth V5.0 (DTS)
Channel Spacing	: 1MHz for Bluetooth V5.0 (DSS) 2MHz for Bluetooth V5.0 (DTS)
Modulation Type	: GFSK, $\pi/4$ -DQPSK, 8-DPSK for Bluetooth V5.0 (DSS) GFSK for Bluetooth V5.0 (DTS)
Bluetooth Version	: V5.0
Antenna Description	: PCB Antenna, 4.16dBi(Max.)
WIFI(2.4G Band)	:
Frequency Range	: 2412MHz~2462MHz
Channel Spacing	: 5MHz
Channel Number	: 11 Channels for 20MHz bandwidth (2412~2462MHz) 7 Channels for 40MHz bandwidth (2422~2452MHz)
Modulation Type	: IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Antenna Description	: PCB Antenna, 4.16dBi(Max.)
433MHz Operation frequency	: 433.92
Modulation Type	: FSK
Channel Number	: 1
Antenna Type	: PCB Antenna
Antenna Gain	: 0dBi (Max)
Wireless Charging	:
Operating Frequency	: 110.0~205.0KHz
Modulation Type	: Msk
Antenna Type	: Coil Antenna

Note: For a more detailed antenna description, please refer to the antenna specifications or the antenna report provided by the customer.





1.2 Support equipment List

Manufacturer	Description	Model	Serial Number	Certificate
---	AC/DC ADAPTER	GM95-2943 00-1DG	---	FCC

1.3 External I/O Cable

I/O Port Description	Quantity	Cable
Power Port	1	N/A

1.4 Description of Test Facility

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024

CAB identifier is CN0071.

CNAS Registration Number is L4595.

Test Firm Registration Number: 254912.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.





1.5 Statement of the Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

1.6 Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
Radiation Uncertainty	9KHz~30MHz	3.10dB	(1)
	30MHz~200MHz	2.96dB	(1)
	200MHz~1000MHz	3.10dB	(1)
	1GHz~26.5GHz	3.80dB	(1)
	26.5GHz~40GHz	3.90dB	(1)
Conduction Uncertainty	150kHz~30MHz	1.63dB	(1)
Power disturbance	30MHz~300MHz	1.60dB	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.





1.7 Description of Test Modes

Equipment under test was operated during the measurement under the following conditions:

☒ Charging and communication mode

Modulation Type: (Msk)

Test Modes		
Mode 1	AC/DC Adapter(29.4V)+EUT+mobile phone (Battery Status: <1%)	Record
Mode 2	AC/DC Adapter(29.4V)+EUT+mobile phone (Battery Status: <50%)	Record
Mode 3	AC/DC Adapter(29.4V)+EUT+mobile phone (Battery Status: 100%)	Record
Note: All test modes were pre-tested for ac and dc mode, but we only recorded the worst case in this report for ac mode.		

For AC conducted emission, pre-test at both AC 120V/60Hz and AC 240V/50Hz, recorded worst case;

For AC conducted emission, pre-test at both AC charge from power adapter modes, recorded worst case.





2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10-2013, FCC CFR PART 15C 15.207.

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The EUT was operated in the normal operating mode and a continuous transmits mode for other tests. According to its specifications, the EUT must comply with the requirements of the Section 15.207 under the FCC Rules Part 15 Subpart C.

2.3 General Test Procedures

2.3.1 Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 6.2.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

2.3.2 Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane below 1GHz and 1.5 m above ground plane above 1GHz. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 6.3 of ANSI C63.10-2013

2.4. Test Sample

The application provides 2 samples to meet requirement;

Sample Number	Description
Sample 1(A240516079-1)	Engineer sample – continuous transmit
Sample 2(A240516079-2)	Normal sample – Intermittent transmit





3. SYSTEM TEST CONFIGURATION

3.1 Justification

The system was configured for testing in a normal condition.

3.2 EUT Exercise Software

N/A.

3.3 Special Accessories

No.	Equipment	Manufacturer	Model No.	Serial No.	Length	shielded/ unshielded	Notes
/	/	/	/	/	/	/	/

3.4 Block Diagram/Schematics

Please refer to the related document.

3.5 Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

3.6 Test Setup

Please refer to the test setup photo.





4. SUMMARY OF TEST EQUIPMENT

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	MXA Signal Analyzer	Agilent	N9020A	MY49100040	2023-06-09	2024-06-08
2	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2023-07-17	2024-07-16
3	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2023-06-09	2024-06-08
4	Positioning Controller	Max-Full	MF7802BS	MF780208586	N/A	N/A
5	EMI Test Software	AUDIX	E3	/	N/A	N/A
6	EMI Test Receiver	R&S	ESR 7	101181	2023-08-15	2024-08-14
7	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	00005	2021-08-29	2024-08-28
8	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2021-09-12	2024-09-11
9	EMI Test Receiver	R&S	ESPI	101940	2023-08-15	2024-08-14
10	Artificial Mains	R&S	ENV216	101288	2023-06-09	2024-06-08
11	10dB Attenuator	SCHWARZBECK	MTS-IMP-136	261115-001-0032	2023-06-09	2024-06-08
12	EMI Test Software	Farad	EZ	/	N/A	N/A
13	Antenna Mast	Max-Full	MFA-515BSN	1308572	N/A	N/A

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	MXA Signal Analyzer	Agilent	N9020A	MY49100040	2024-06-06	2025-06-05
2	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2024-06-06	2025-06-05
3	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2024-06-06	2025-06-05
4	Positioning Controller	Max-Full	MF7802BS	MF780208586	N/A	N/A
5	EMI Test Software	AUDIX	E3	/	N/A	N/A
6	EMI Test Receiver	R&S	ESR 7	101181	2024-06-06	2025-06-05
7	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	00005	2024-07-13	2027-07-12
8	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2024-08-03	2027-08-02
9	EMI Test Receiver	R&S	ESPI	101940	2024-06-06	2025-06-05
10	Artificial Mains	R&S	ENV216	101288	2024-06-06	2025-06-05
11	10dB Attenuator	SCHWARZBECK	MTS-IMP-136	261115-001-0032	2024-06-06	2025-06-05
12	EMI Test Software	Farad	EZ	/	N/A	N/A
13	Antenna Mast	Max-Full	MFA-515BSN	1308572	N/A	N/A
14	Pulse Limiter	R&S	ESH3-Z2	102750-NB	2024-06-06	2025-06-05
15	Low-frequency amplifier	SchwarzZBECK	BBV9745	00253	2024-10-08	2025-10-07





5. SUMMARY OF TEST RESULT

FCC Rules	Description of Test	Test Sample	Result
§15.207(a)	AC Conducted Emissions	Sample 1	Compliant
§15.209	Radiated Spurious Emissions	Sample 1	Compliant
§15.215	20 dB Bandwidth	Sample 1	Compliant

Remark: The measurement uncertainty is not included in the test result.

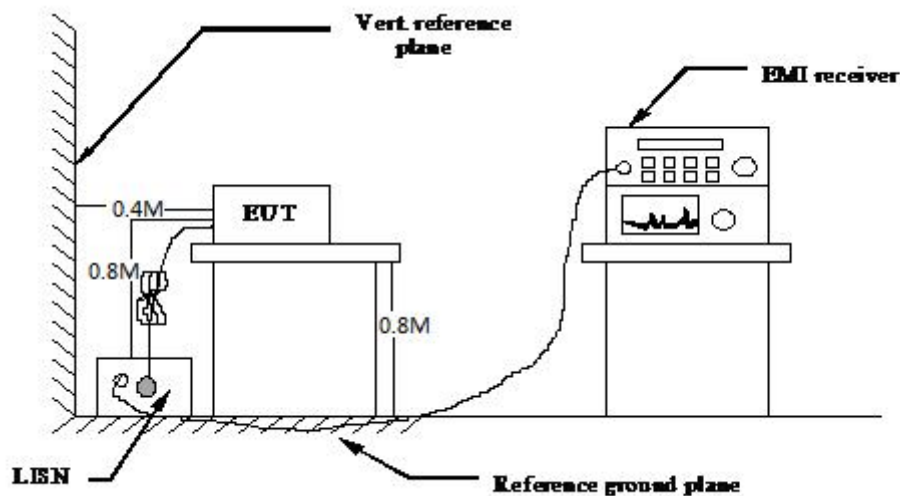
N/A – Not Applicable!!!





6. POWER LINE CONDUCTED MEASUREMENT

6.1. Block Diagram of Test Setup



6.2. Standard Applicable

According to §15.207: For all the consumer devices which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows:

Frequency Range (MHz)	Limits (dBμV)	
	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

* Decreasing linearly with the logarithm of the frequency

6.3 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS \text{ (dBuV/m)} = RA \text{ (dBuV)} + AF \text{ (dB/m)} + CL \text{ (dB)} - AG \text{ (dB)}$$

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

6.4 Test Results

Temperature	22.5°C	Humidity	53.7%
Test Engineer	Paddi Chen	Configurations	BT

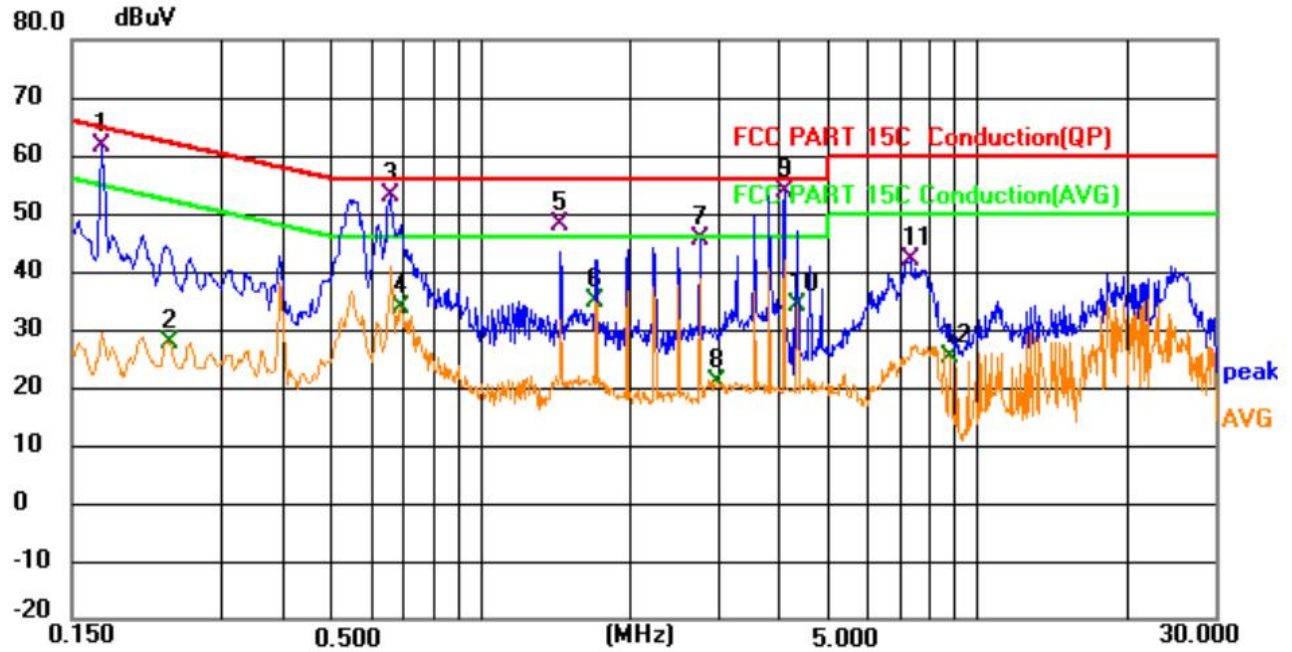
PASS.

The test data please refer to following page.





Line

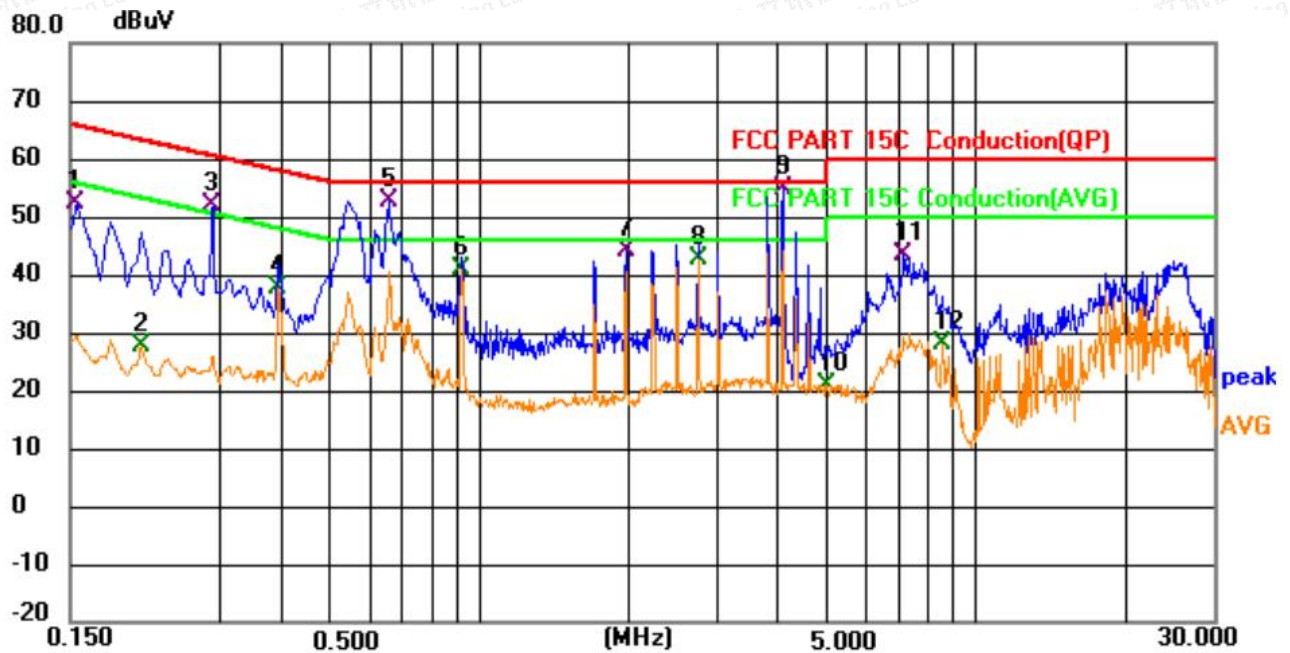


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV	dBuV	dB		
1		0.172	42.15	19.63	61.78	64.86	-3.08	QP	
2		0.235	8.21	19.63	27.84	52.27	-24.43	AVG	
3		0.654	33.28	19.65	52.93	56.00	-3.07	QP	
4		0.690	14.23	19.65	33.88	46.00	-12.12	AVG	
5		1.446	28.54	19.66	48.20	56.00	-7.80	QP	
6		1.707	15.03	19.67	34.70	46.00	-11.30	AVG	
7		2.760	25.78	19.68	45.46	56.00	-10.54	QP	
8		2.981	1.10	19.68	20.78	46.00	-25.22	AVG	
9	*	4.074	34.20	19.70	53.90	56.00	-2.10	QP	
10		4.335	14.58	19.70	34.28	46.00	-11.72	AVG	
11		7.296	22.21	19.74	41.95	60.00	-18.05	QP	
12		8.808	5.53	19.81	25.34	50.00	-24.66	AVG	





Neutral



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	dBuV	Factor	ment	dBuV	dB	Detector	Comment
1		0.154	32.58	19.63	52.21	65.79	-13.58	QP	
2		0.208	8.22	19.63	27.85	53.28	-25.43	AVG	
3		0.289	32.26	19.63	51.89	60.55	-8.66	QP	
4		0.393	17.90	19.63	37.53	48.00	-10.47	AVG	
5		0.654	33.12	19.65	52.77	56.00	-3.23	QP	
6		0.919	21.12	19.65	40.77	46.00	-5.23	AVG	
7		1.972	24.48	19.68	44.16	56.00	-11.84	QP	
8		2.760	22.92	19.72	42.64	46.00	-3.36	AVG	
9	*	4.074	34.88	19.80	54.68	56.00	-1.32	QP	
10		4.979	1.11	19.80	20.91	46.00	-25.09	AVG	
11		7.161	23.71	19.83	43.54	60.00	-16.46	QP	
12		8.547	8.20	19.84	28.04	50.00	-21.96	AVG	

***Note: Pre-scan all modes and recorded the worst case results in this report.

Measurement = Reading + Correct Factor, Margin = Measurement – Limit,

Correct Factor = Lism Factor + Cable Factor + Insertion loss of Pulse Limiter.



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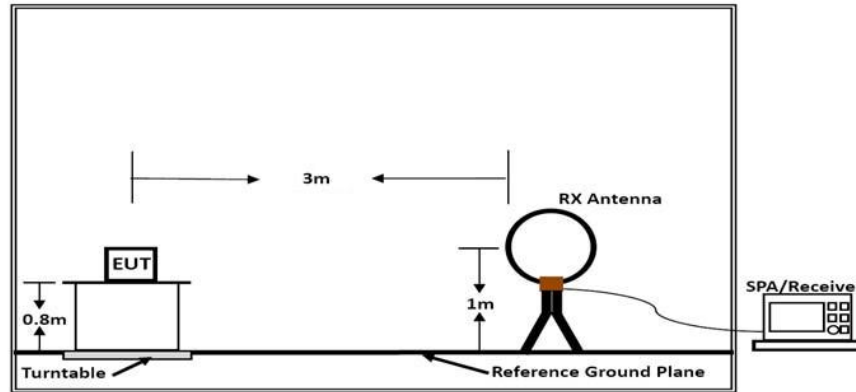
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

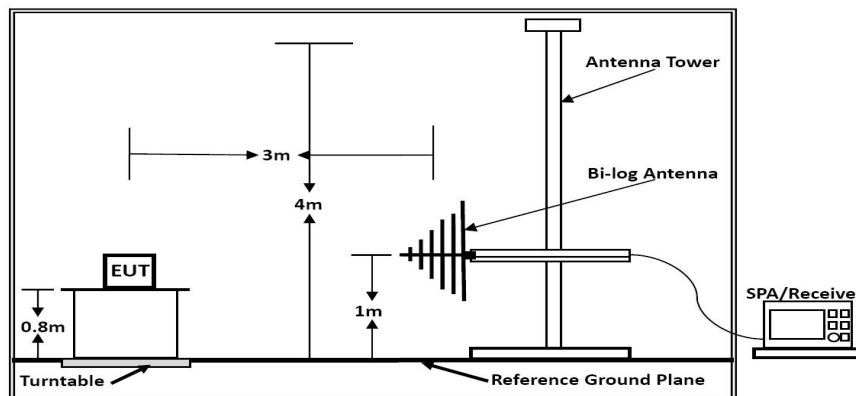


7. RADIATED EMISSION MEASUREMENT

7.1. Block Diagram of Test Setup



Below 30MHz



Below 1GHz





7.2. Radiated Emission Limit

15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
1\ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	TF1560B-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(12\)
13.36-13.41			

1\ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

12\ Above 38.6

According to §15.247 (d): 20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

7.3. EUT Configuration on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.





7.4. Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS \text{ (dBuV/m)} = RA \text{ (dBuV)} + AF \text{ (dB/m)} + CL \text{ (dB)} - AG \text{ (dB)}$$

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

7.5. Operating Condition of EUT

(1) Setup the EUT as shown in Section 7.1.

7.6. Measuring Setting

The following table is the setting of spectrum analyzer and receiver.

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP/Average
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP/Average
Start ~ Stop Frequency	30MHz~1000MHz / RB 100kHz for QP

7.7. Test Procedure

1) Sequence of testing 9 kHz to 30 MHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- If the EUT is a floor standing device, it is placed on the ground.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

Premeasurement:

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna height is 1.0 meter.
- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

Final measurement:

- Identified emissions during the premeasurement the software maximizes by rotating the turntable





position (0° to 360°) and by rotating the elevation axes (0° to 360°).

--- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.

--- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

2) Sequence of testing 30 MHz to 1 GHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.

--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.

--- Auxiliary equipment and cables were positioned to simulate normal operation conditions

--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.

--- The measurement distance is 3 meter.

--- The EUT was set into operation.

Premeasurement:

--- The turntable rotates from 0° to 315° using 45° steps.

--- The antenna is polarized vertical and horizontal.

--- The antenna height changes from 1 to 3 meter.

--- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement:

--- The final measurement will be performed with minimum the six highest peaks.

--- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position ($\pm 45^\circ$) and antenna movement between 1 and 4 meter.

--- The final measurement will be done with QP detector with an EMI receiver.

--- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

7.8. Test Results

PASS.

Both AC and DC modes were tested, only AC mode was recorded

Only report the worst test data (Mode 1) in test report;

The test data please refer to following page:



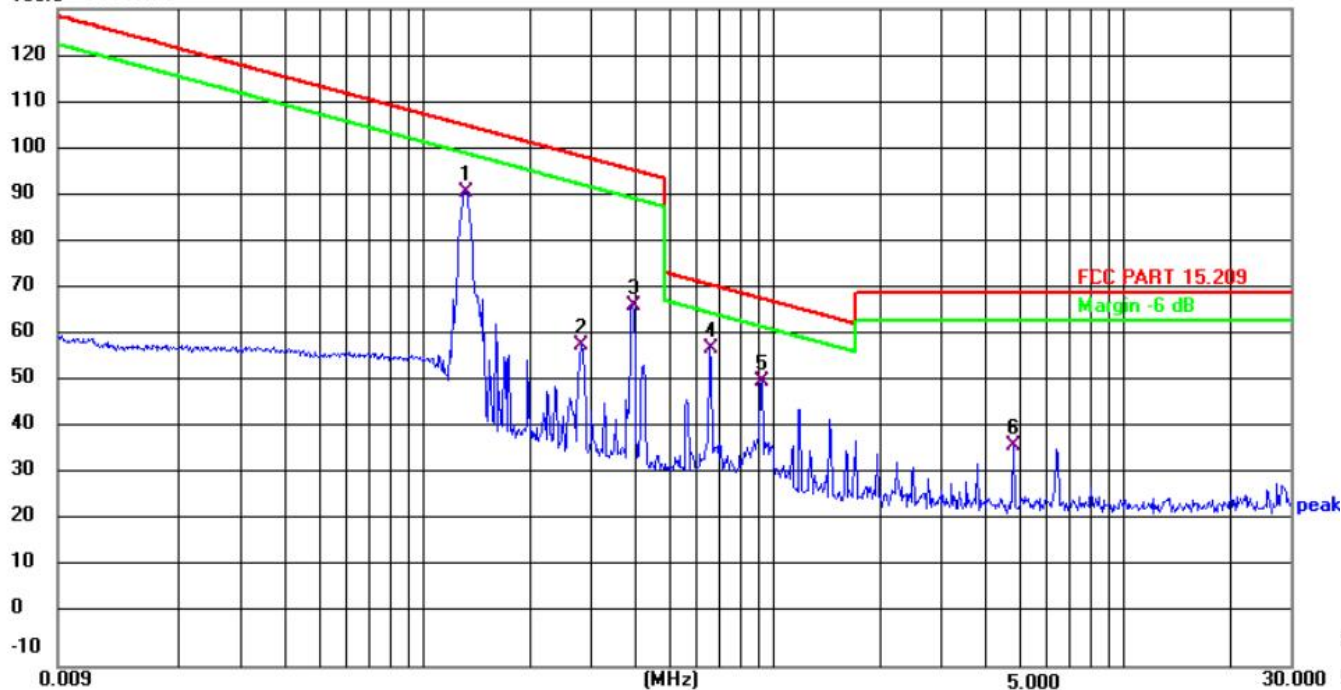


Temperature	23.6°C	Humidity	52.2%
Test Engineer	Paddi Chen	Configurations	Transmit

0.009 MHz – 30 MHz

0 degree

130.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.1318	100.68	-9.79	90.89	105.14	-14.25	QP
2	0.2827	68.31	-9.75	58.56	98.55	-39.99	QP
3	0.3942	76.67	-9.73	66.94	95.68	-28.74	QP
4	0.6573	67.46	-9.56	57.90	71.25	-13.35	QP
5	0.9242	59.94	-9.32	50.62	68.29	-17.67	QP
6	4.8357	46.52	-9.40	37.12	69.54	-32.42	QP

Remark: 1). Measured at antenna position 0 degree and 90 degree, recorded worst case at 0 degree.

2). Margin=Reading level + Factor- Limit



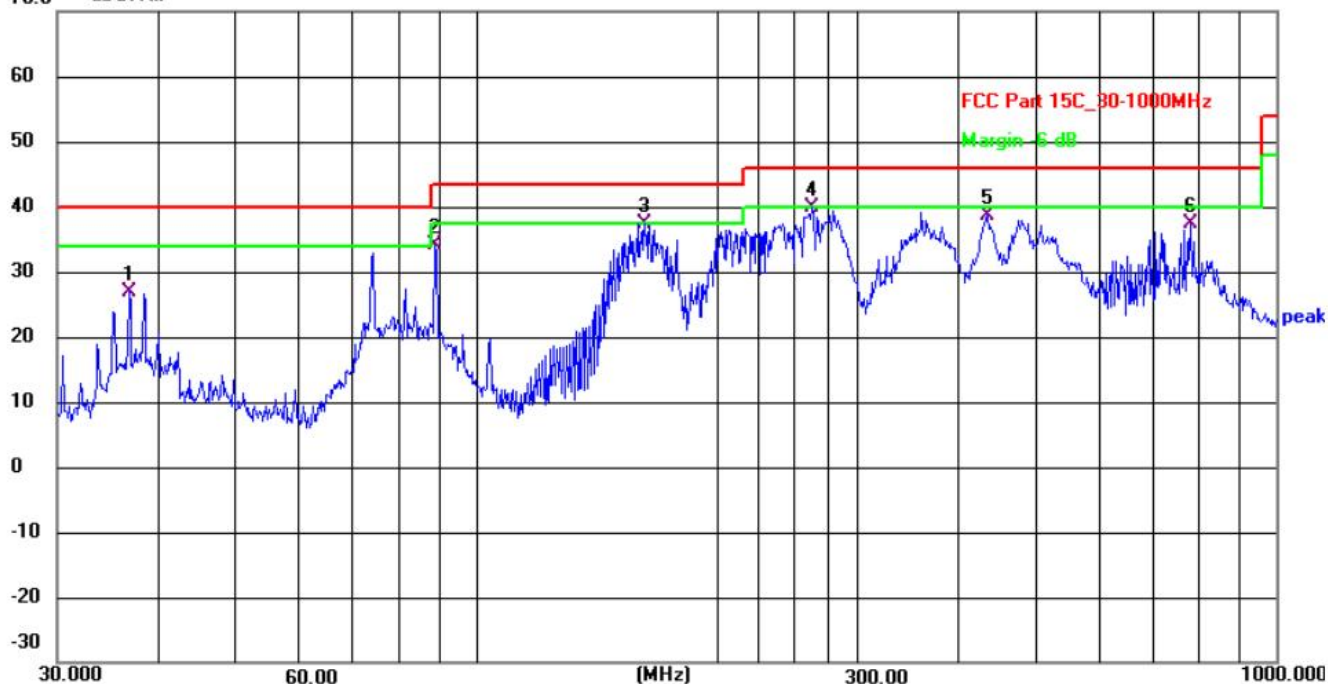


Temperature	23.8°C	Humidity	52.1%
Test Engineer	Paddi Chen	Configurations	Transmit

Below 1GHz

Horizontal

70.0 dBuV/m



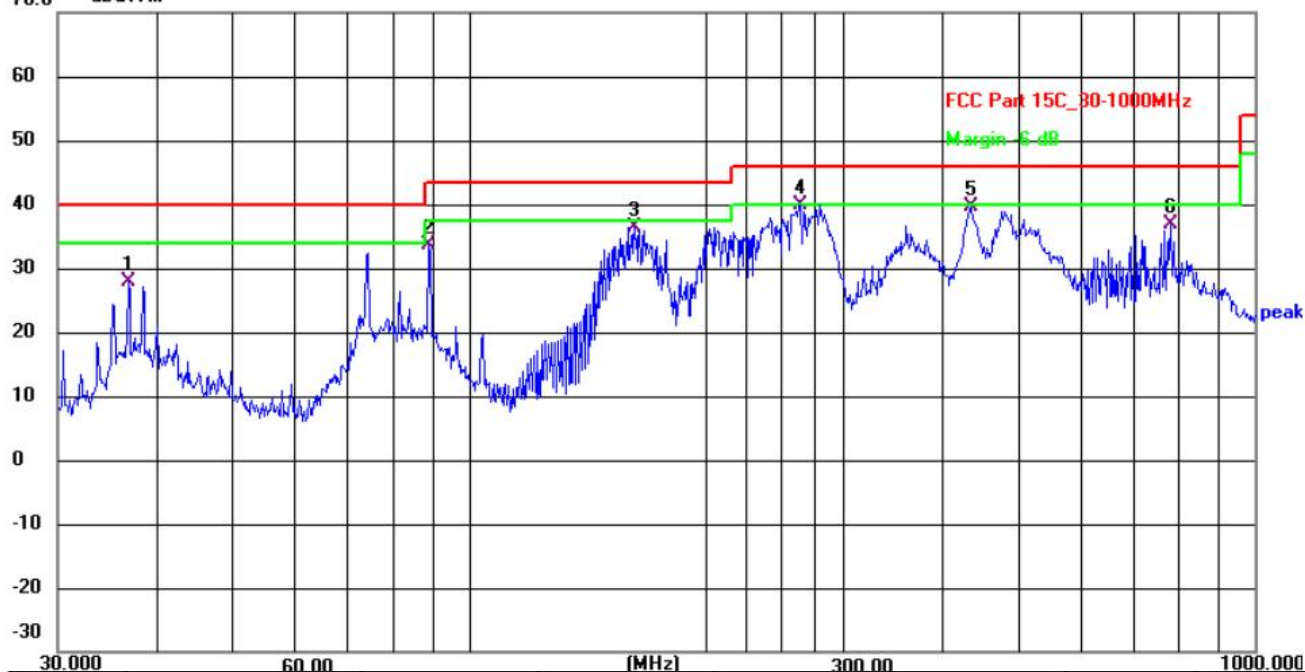
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	36.8952	44.59	-17.70	26.89	40.00	-13.11	QP
2	88.9637	53.21	-18.98	34.23	43.50	-9.27	QP
3	162.6105	57.12	-19.63	37.49	43.50	-6.01	QP
4	262.8955	55.42	-15.48	39.94	46.00	-6.06	QP
5	435.5898	52.45	-13.85	38.60	46.00	-7.40	QP
6	782.3451	47.46	-10.09	37.37	46.00	-8.63	QP





Vertical

70.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	36.8952	45.59	-17.70	27.89	40.00	-12.11	QP
2	88.9637	52.71	-18.98	33.73	43.50	-9.77	QP
3	162.6105	56.12	-19.63	36.49	43.50	-7.01	QP
4	263.8190	55.43	-15.48	39.95	46.00	-6.05	QP
5	435.5898	53.45	-13.85	39.60	46.00	-6.40	QP
6	782.3451	46.96	-10.09	36.87	46.00	-9.13	QP

1). Emission level (dBuV/m) = $20 \log$ Emission level (uV/m).

2). Margin=Reading level + Factor- Limit.

Correct Factor=Antenna Factor+Cable Factor- Pre-amplifier Factor



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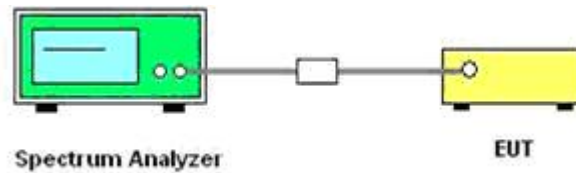
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



8. 20 dB Bandwidth Measurement

8.1. Block Diagram of Test Setup



8.2. Test Procedure

Use the following spectrum analyzer settings:

Span = 500Hz

RBW = 3Hz

VBW = 10Hz

Sweep = auto

Detector function = peak

Trace = max hold

The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 20 dB down one side of the emission. Reset the marker-delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 20 dB bandwidth of the emission. If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s).





8.3. Test Results

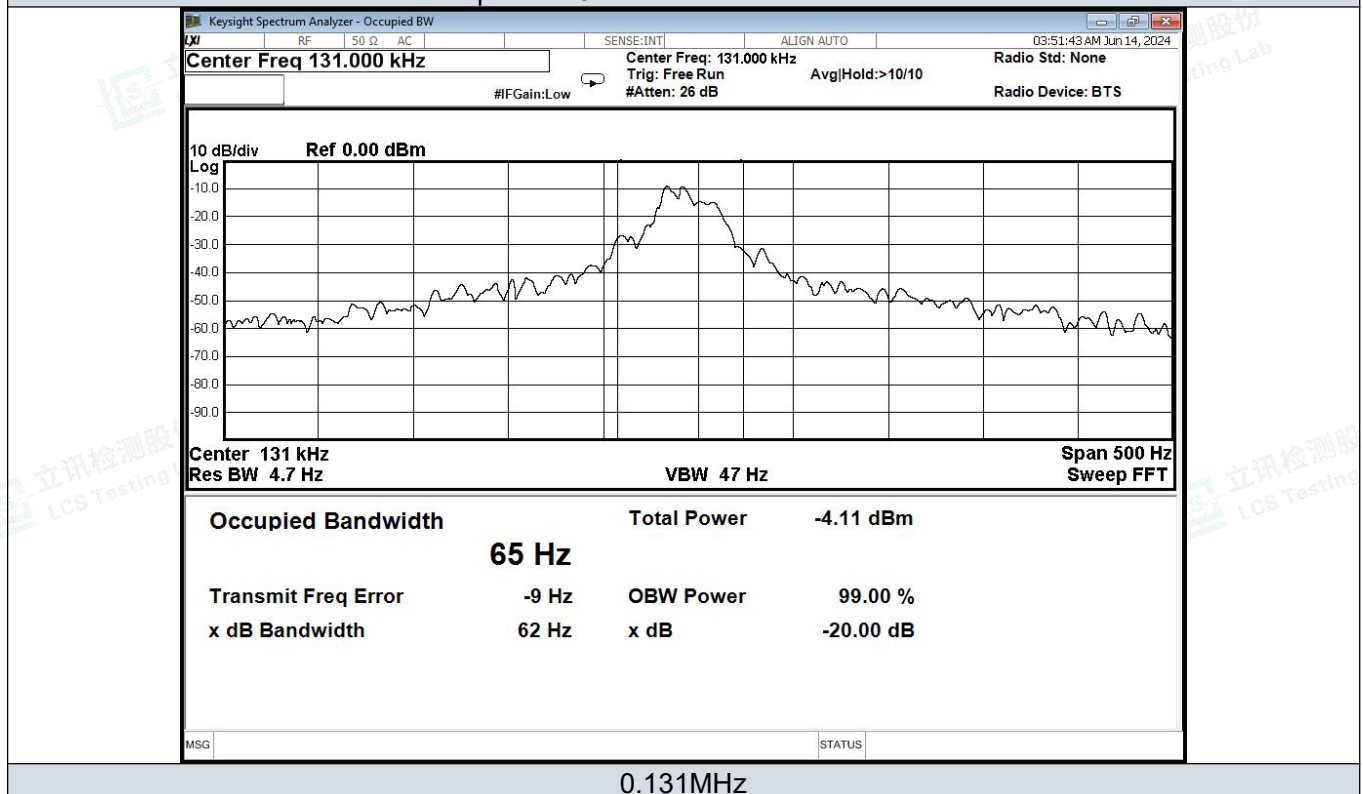
Test Result Of 20dB Bandwidth Measurement

Test Mode	Test Frequency (MHz)	20dB Bandwidth (kHz)	Limit (kHz)
TM1	0.131	0.062	Non-Specified

Result: Pass

Please refer to the following page for test plot.

Test plot of 20 dB Bandwidth Measurement





9. PHOTOGRAPHS OF TEST SETUP

Please refer to separated files for Test Setup Photos of the EUT.

10. EXTERNAL PHOTOGRAPHS OF THE EUT

Please refer to separated files for External Photos of the EUT.

11. INTERNAL PHOTOGRAPHS OF THE EUT

Please refer to separated files for Internal Photos of the EUT.

-----THE END OF REPORT-----

