

RF Exposure Evaluation Report

FCC 47 CFR § 2.1091

for
WLAN/BT USB Dongle

Model Name.: CL-8852BU

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Revision History


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1 Attestation of Test Results

Applicant Name	Toshiba Tec Corporation
Model Name	CL-8852BU
Applicable Standards	FCC 47 CFR § 2.1091 FCC 47 CFR § 1.1307 FCC 47 CFR § 1.1310 Published RF exposure KDB procedures
Receive EUT Date:	July 21, 2023
<p>Compliance Certification Services Inc. , tested the above equipment in accordance with the requirements set forth in the above standards. Determination of compliance is based on the results of the compliance measurement,not taking into account measurement instrumentation uncertainty.All indications of Pass/Fail in this report are opinions expressed by Compliance Certification Services Inc, based on interpretations and/or observations of test results. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.</p>	
<p>Approved & Released By:</p> 	
<p>Sky Zhou Asst. Section Manager Compliance Certification Services Inc.</p>	

2 Test Specification, Methods and Procedures

The tests documented in this report were performed in accordance with FCC 47 CFR § 2.1091, the following FCC Published RF exposure [KDB](#) procedures:

- 447498 D04 Interim General RF Exposure Guidance v01
- 865664 D02 RF Exposure Reporting v01r02

3 Device Under Test (DUT) Information

3.1 DUT Description

Product	WLAN/BT USB Dongle
Trade Name	Toshiba Tec Corporation
Model No.	CL-8852BU
Model Discrepancy	N/A
Software Version	01
Hardware Version	0B
Sample Stage	Identical prototype

3.2 Wireless Technologies

Frequency bands	<input checked="" type="checkbox"/> Bluetooth: 2402MHz-2480MHz <input checked="" type="checkbox"/> 802.11b/g/n HT20/ac VHT20/ax HE20: 2412MHz ~ 2462 MHz <input checked="" type="checkbox"/> 802.11n HT40/ac VHT40/ax HE40: 2422MHz ~ 2452MHz <input checked="" type="checkbox"/> 802.11a/n HT20: 5180MHz ~ 5240MHz / 5260MHz ~ 5320MHz / 5500MHz ~ 5700MHz / 5745MHz ~ 5825MHz <input checked="" type="checkbox"/> 802.11ac VHT20: 5180MHz ~ 5240MHz / 5260MHz ~ 5320MHz / 5500MHz ~ 5700MHz / 5745MHz ~ 5825MHz <input checked="" type="checkbox"/> 802.11ax HE20: 5180MHz ~ 5240MHz / 5260MHz ~ 5320MHz / 5500MHz ~ 5700MHz / 5745MHz ~ 5825MHz <input checked="" type="checkbox"/> 802.11n HT40: 5190MHz ~ 5230MHz / 5270MHz ~ 5310MHz / 5510MHz ~ 5670MHz / 5755MHz ~ 5795MHz <input checked="" type="checkbox"/> 802.11ac VHT40: 5190MHz ~ 5230MHz / 5270MHz ~ 5310MHz / 5510MHz ~ 5670MHz / 5755MHz ~ 5795MHz <input checked="" type="checkbox"/> 802.11ax HE40: 5190MHz ~ 5230MHz / 5270MHz ~ 5310MHz / 5510MHz ~ 5670MHz / 5755MHz ~ 5795MHz <input checked="" type="checkbox"/> 802.11ac VHT80: 5210MHz / 5290MHz / 5530MHz ~ 5610MHz / 5775MHz <input checked="" type="checkbox"/> 802.11ax HE80: 5210MHz / 5290MHz / 5530MHz ~ 5610MHz / 5775MHz <input type="checkbox"/> Others
Exposure classification	<input type="checkbox"/> Occupational/Controlled exposure <input checked="" type="checkbox"/> General Population/Uncontrolled exposure

Antenna Specification	Type: PCB Antenna		
	BT: Gain: -13.33 dBi		
	BLE: Gain: -13.33 dBi		
	WIFI 2.4GHz:		
	Chain 0: Gain: -13.33 dBi		
	Chain 1: Gain: -13.74 dBi		
	Power Directional Gain: -10.52 dBi		
	WIFI 5GHz:		
	5150~5250		
	Chain 0: Gain: 3.43 dBi		
	Chain 1: Gain: 4.25 dBi		
	Power Directional Gain: 6.86 dBi		
	5250~5350		
	Chain 0: Gain: 4.41 dBi		
	Chain 1: Gain: 4.97 dBi		
Power Directional Gain: 7.70 dBi			
5470~5725			
Chain 0: Gain: 4.06 dBi			
Chain 1: Gain: 6.05 dBi			
Power Directional Gain: 8.12 dBi			
5725~5850			
Chain 0: Gain: 4.86 dBi			
Chain 1: Gain: 6.05 dBi			
Power Directional Gain: 8.49 dBi			
BT: Antenna Gain : -13.33 dBi (Numeric gain: 0.05) Worst			
2.4GHz: Antenna Gain: -10.52 dBi (Numeric gain: 0.09) Worst			
5GHz(U-NII-1): Antenna Gain: 6.86 dBi (Numeric gain: 4.85) Worst			
5GHz(U-NII-2A) Antenna Gain: 7.70 dBi (Numeric gain: 5.89) Worst			
5GHz(U-NII-2C) Antenna Gain: 8.12 dBi (Numeric gain: 6.49) Worst			
5GHz(U-NII-3): Antenna Gain: 8.49 dBi (Numeric gain: 7.06) Worst			

Maximum Tune up power	BT	5.50 dBm	(3.548 mW)
	BLE	5.50 dBm	(3.548 mW)
	2.4GHz		
	IEEE 802.11b (Multiple)	25.00 dBm	(316.228 mW)
	IEEE 802.11g (Multiple)	22.50 dBm	(177.828 mW)
	IEEE 802.11n HT 20 (MIMO)	22.50 dBm	(177.83 mW)
	IEEE 802.11n HT 40 (MIMO)	18.50 dBm	(70.79 mW)
	IEEE 802.11ac VHT 20 (MIMO)	22.50 dBm	(177.83 mW)
	IEEE 802.11ac VHT 40 (MIMO)	18.50 dBm	(70.79 mW)
	IEEE 802.11ax HE 20 (MIMO)	22.50 dBm	(177.83 mW)
IEEE 802.11ax HE 40 (MIMO)	18.50 dBm	(70.79 mW)	

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Maximum Tune up power	5GHz (U-NII-1)		
	IEEE 802.11a (Multiple)	23.00 dBm	(199.53 mW)
	IEEE 802.11n HT 20 (MIMO)	22.50 dBm	(177.83 mW)
	IEEE 802.11n HT 40 (MIMO)	23.50 dBm	(223.87 mW)
	IEEE 802.11ac VHT 20 (MIMO)	22.50 dBm	(177.83 mW)
	IEEE 802.11ac VHT 40 (MIMO)	23.50 dBm	(223.87 mW)
	IEEE 802.11ac VHT 80 (MIMO)	15.50 dBm	(35.48 mW)
	IEEE 802.11ax HE 20 (MIMO)	23.50 dBm	(223.87 mW)
	IEEE 802.11ax HE 40 (MIMO)	23.50 dBm	(223.87 mW)
	IEEE 802.11ax HE 80 (MIMO)	15.50 dBm	(35.48 mW)
	5GHz (U-NII-2A)		
	IEEE 802.11a (Multiple)	22.50 dBm	(177.83 mW)
	IEEE 802.11n HT 20 (MIMO)	22.50 dBm	(177.83 mW)
	IEEE 802.11n HT 40 (MIMO)	22.50 dBm	(177.83 mW)
	IEEE 802.11ac VHT 20 (MIMO)	22.50 dBm	(177.83 mW)
	IEEE 802.11ac VHT 40 (MIMO)	22.50 dBm	(177.83 mW)
	IEEE 802.11ac VHT 80 (MIMO)	15.50 dBm	(35.48 mW)
	IEEE 802.11ax HE 20 (MIMO)	22.50 dBm	(177.83 mW)
	IEEE 802.11ax HE 40 (MIMO)	22.50 dBm	(177.83 mW)
	IEEE 802.11ax HE 80 (MIMO)	15.50 dBm	(35.48 mW)
	5GHz (U-NII-2C)		
	IEEE 802.11a (Multiple)	22.00 dBm	(158.49 mW)
	IEEE 802.11n HT 20 (MIMO)	22.50 dBm	(177.83 mW)
	IEEE 802.11n HT 40 (MIMO)	22.00 dBm	(158.49 mW)
	IEEE 802.11ac VHT 20 (MIMO)	22.50 dBm	(177.83 mW)
	IEEE 802.11ac VHT 40 (MIMO)	22.00 dBm	(158.49 mW)
	IEEE 802.11ac VHT 80 (MIMO)	21.50 dBm	(141.25 mW)
	IEEE 802.11ax HE 20 (MIMO)	22.50 dBm	(177.83 mW)
	IEEE 802.11ax HE 40 (MIMO)	22.00 dBm	(158.49 mW)
	IEEE 802.11ax HE 80 (MIMO)	21.50 dBm	(141.25 mW)
	5GHz (U-NII-3)		
	IEEE 802.11a (Multiple)	22.00 dBm	(158.49 mW)
	IEEE 802.11n HT20 (MIMO)	21.50 dBm	(141.25 mW)
	IEEE 802.11n HT40 (MIMO)	23.50 dBm	(223.87 mW)
	IEEE 802.11ac VHT20 (MIMO)	21.50 dBm	(141.25 mW)
	IEEE 802.11ac VHT40 (MIMO)	23.50 dBm	(223.87 mW)
IEEE 802.11ac VHT80 (MIMO)	23.50 dBm	(223.87 mW)	
IEEE 802.11ax HE20 (MIMO)	22.50 dBm	(177.83 mW)	
IEEE 802.11ax HE40 (MIMO)	22.50 dBm	(177.83 mW)	
IEEE 802.11ax HE80 (MIMO)	23.50 dBm	(223.87 mW)	

Notes:

1. For more details, please refer to the User's manual of the EUT.
2. Disclaimer: Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.
3. The power referred the Tune up power of the test report TMWK2307002434KR, TMWK2307002435KR, TMWK2307002436KR and TMWK2307002437KR for RF Exposure assessment purpose.

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4 Maximum Permissible Exposure

4.1 Limits for Maximum Permissible Exposure (MPE)

Table 1 - Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	* 100	6
3.0-30	1842/f	4.89/f	* 900/f ²	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	* 100	30
1.34-30	824/f	2.19/f	* 180/f ²	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30

4.2 MPE Calculation Method

Calculation

Given $E = \frac{\sqrt{30 \times P \times G}}{d}$ & $S = \frac{E^2}{377}$

Where E = Field strength in Volts / meter

P = Power in Watts

G = Numeric antenna gain

d = Distance in meters

S = Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{377 d^2}$$

Changing to units of mW and cm, using:

$$P \text{ (mW)} = P \text{ (W)} / 1000 \text{ and}$$

$$d \text{ (cm)} = d \text{ (m)} / 100$$

Yields

$$S = \frac{30 \times (P/1000) \times G}{377 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2} \text{ Equation 1}$$

Where d = Distance in cm

P = Power in mW

G = Numeric antenna gain

S = Power density in mW / cm²

If, Substituting the MPE safe distance using d = 20 cm into Equation 1:

$$S = 0.000199 \times P \times G$$

4.3 MPE EXEMPTION

- (A) The available maximum time-averaged power is no more than 1 mW
- (B) The available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by:

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

Where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$$

and

$$ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

d = the separation distance (cm);

- (C) Using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

Single RF Sources Subject to Routine Environmental Evaluation	
RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	1,920 R^2 .
1.34-30	3,450 R^2/f^2 .
30-300	3.83 R^2 .
300-1,500	0.0128 R^2f .
1,500-100,000	19.2 R^2 .

Note: R is in meters, f is in MHz.

4.4 Multiple RF sources

In the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation),

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} \leq 1$$

5 MPE Exemption Option B

Bluetooth

Mode	Frequency (MHz)	R(m)	Max Tune-up power (dBm)	G(dBi)	Max Tune-up EIRP (dBm)	Max Tune-up ERP (dBm)	Max Tune-up ERP (mW)	ERP Threshold (mW)	MPE Exemption
BT	2480.00	0.2	5.5	-13.33	-7.83	-9.98	0.100	3060	Complies
BLE	2480.00	0.2	5.5	-13.33	-7.83	-9.98	0.100	3060	Complies

WIFI 2.4GHz (DTS)

Mode	Frequency (MHz)	R(m)	Max Tune-up power (dBm)	G(dBi)	Max Tune-up EIRP (dBm)	Max Tune-up ERP (dBm)	Max Tune-up ERP (mW)	ERP Threshold (mW)	MPE Exemption
IEEE 802.11b (Multiple)	2437.00	0.2	25.0	-10.52	14.48	12.33	17.100	3060	Complies
IEEE 802.11g (Multiple)	2437.00	0.2	22.5	-10.52	11.98	9.83	9.616	3060	Complies
IEEE 802.11n HT 20 (MIMO)	2437.00	0.2	22.5	-10.52	11.98	9.83	9.616	3060	Complies
IEEE 802.11n HT 40 (MIMO)	2437.00	0.2	18.5	-10.52	7.98	5.83	3.828	3060	Complies
IEEE 802.11ac VHT 20 (MIMO)	2437.00	0.2	22.5	-10.52	11.98	9.83	9.616	3060	Complies
IEEE 802.11ac VHT 40 (MIMO)	2437.00	0.2	18.5	-10.52	7.98	5.83	3.828	3060	Complies
IEEE 802.11ax HE 20 (MIMO)	2437.00	0.2	22.5	-10.52	11.98	9.83	9.616	3060	Complies
IEEE 802.11ax HE 40 (MIMO)	2437.00	0.2	18.5	-10.52	7.98	5.83	3.828	3060	Complies

WIFI 5.2GHz (U-NII-1)

Mode	Frequency (MHz)	R(m)	Max Tune-up power (dBm)	G(dBi)	Max Tune-up EIRP (dBm)	Max Tune-up ERP (dBm)	Max Tune-up ERP (mW)	ERP Threshold (mW)	MPE Exemption
IEEE 802.11a (Multiple)	5240.00	0.2	23.0	6.86	29.86	27.71	590.201	3060	Complies
IEEE 802.11n HT 20 (MIMO)	5240.00	0.2	22.5	6.86	29.36	27.21	526.017	3060	Complies
IEEE 802.11n HT 40 (MIMO)	5230.00	0.2	23.5	6.86	30.36	28.21	662.217	3060	Complies
IEEE 802.11ac VHT 20 (MIMO)	5240.00	0.2	22.5	6.86	29.36	27.21	526.017	3060	Complies
IEEE 802.11ac VHT 40 (MIMO)	5230.00	0.2	23.5	6.86	30.36	28.21	662.217	3060	Complies
IEEE 802.11ac VHT 80 (MIMO)	5210.00	0.2	15.5	6.86	22.36	20.21	104.954	3060	Complies
IEEE 802.11ax HE 20 (MIMO)	5240.00	0.2	23.5	6.86	30.36	28.21	662.217	3060	Complies
IEEE 802.11ax HE 40 (MIMO)	5230.00	0.2	23.5	6.86	30.36	28.21	662.217	3060	Complies
IEEE 802.11ax HE 80 (MIMO)	5210.00	0.2	15.5	6.86	22.36	20.21	104.954	3060	Complies

WIFI 5.3GHz (U-NII-2A)

Mode	Frequency (MHz)	R(m)	Max Tune-up power (dBm)	G(dBi)	Max Tune-up EIRP (dBm)	Max Tune-up ERP (dBm)	Max Tune-up ERP (mW)	ERP Threshold (mW)	MPE Exemption
IEEE 802.11a (Multiple)	5320.00	0.2	22.5	7.70	30.20	28.05	638.263	3060	Complies
IEEE 802.11n HT 20 (MIMO)	5320.00	0.2	22.5	7.70	30.20	28.05	638.263	3060	Complies
IEEE 802.11n HT 40 (MIMO)	5270.00	0.2	22.5	7.70	30.20	28.05	638.263	3060	Complies
IEEE 802.11ac VHT 20 (MIMO)	5320.00	0.2	22.5	7.70	30.20	28.05	638.263	3060	Complies
IEEE 802.11ac VHT 40 (MIMO)	5270.00	0.2	22.5	7.70	30.20	28.05	638.263	3060	Complies
IEEE 802.11ac VHT 80 (MIMO)	5290.00	0.2	15.5	7.70	23.20	21.05	127.350	3060	Complies
IEEE 802.11ax HE 20 (MIMO)	5320.00	0.2	22.5	7.70	30.20	28.05	638.263	3060	Complies
IEEE 802.11ax HE 40 (MIMO)	5270.00	0.2	22.5	7.70	30.20	28.05	638.263	3060	Complies
IEEE 802.11ax HE 80 (MIMO)	5290.00	0.2	15.5	7.70	23.20	21.05	127.350	3060	Complies

WIFI 5.5GHz (U-NII-2C)

Mode	Frequency (MHz)	R(m)	Max Tune-up power (dBm)	G(dBi)	Max Tune-up EIRP (dBm)	Max Tune-up ERP (dBm)	Max Tune-up ERP (mW)	ERP Threshold (mW)	MPE Exemption
IEEE 802.11a (Multiple)	5700.00	0.2	22.0	8.12	30.12	27.97	626.614	3060	Complies
IEEE 802.11n HT 20 (MIMO)	5500.00	0.2	22.5	8.12	30.62	28.47	703.072	3060	Complies
IEEE 802.11n HT 40 (MIMO)	5670.00	0.2	22.0	8.12	30.12	27.97	626.614	3060	Complies
IEEE 802.11ac VHT 20 (MIMO)	5500.00	0.2	22.5	8.12	30.62	28.47	703.072	3060	Complies
IEEE 802.11ac VHT 40 (MIMO)	5670.00	0.2	22.0	8.12	30.12	27.97	626.614	3060	Complies
IEEE 802.11ac VHT 80 (MIMO)	5610.00	0.2	21.5	8.12	29.62	27.47	558.470	3060	Complies
IEEE 802.11ax HE 20 (MIMO)	5700.00	0.2	22.5	8.12	30.62	28.47	703.072	3060	Complies
IEEE 802.11ax HE 40 (MIMO)	5670.00	0.2	22.0	8.12	30.12	27.97	626.614	3060	Complies
IEEE 802.11ax HE 80 (MIMO)	5610.00	0.2	21.5	8.12	29.62	27.47	558.470	3060	Complies

WIFI 5.8GHz (U-NII-3)

Mode	Frequency (MHz)	R(m)	Max Tune-up power (dBm)	G(dBi)	Max Tune-up EIRP (dBm)	Max Tune-up ERP (dBm)	Max Tune-up ERP (mW)	ERP Threshold (mW)	MPE Exemption
IEEE 802.11a (Multiple)	5745.00	0.2	22.0	8.49	30.49	28.34	682.339	3060	Complies
IEEE 802.11n HT20 (MIMO)	5825.00	0.2	21.5	8.49	29.99	27.84	608.135	3060	Complies
IEEE 802.11n HT40 (MIMO)	5795.00	0.2	23.5	8.49	31.99	29.84	963.829	3060	Complies
IEEE 802.11ac VHT20 (MIMO)	5825.00	0.2	21.5	8.49	29.99	27.84	608.135	3060	Complies
IEEE 802.11ac VHT40 (MIMO)	5795.00	0.2	23.5	8.49	31.99	29.84	963.829	3060	Complies
IEEE 802.11ac VHT80 (MIMO)	5775.00	0.2	23.5	8.49	31.99	29.84	963.829	3060	Complies
IEEE 802.11ax HE20 (MIMO)	5825.00	0.2	22.5	8.49	30.99	28.84	765.597	3060	Complies
IEEE 802.11ax HE40 (MIMO)	5795.00	0.2	22.5	8.49	30.99	28.84	765.597	3060	Complies
IEEE 802.11ax HE80 (MIMO)	5775.00	0.2	23.5	8.49	31.99	29.84	963.829	3060	Complies

6 Simultaneous Transmission Exempt

In the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation),

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} \leq 1$$

Simultaneous Transmission Condition

RF Exposure Condition	Item	Capable Transmit Configurations		
	1	DTS	+	BT
2	U-NII	+	BT	

6.1 Sum of the WIFI 2.4GHz & WIFI 5GHz+ Bluetooth

WiFi 2.4GHz + Bluetooth

Mode	Frequency (MHz)	Max Tune-up ERP(mW)	ERP Threshold(mW)	simultaneous Transmission	simultaneous Transmission Limit
WiFi 2.4GHz	2437.00	17.100	3060	0.006	≤1
Bluetooth	2480.00	0.100	3060		

WiFi 5GHz + Bluetooth

Mode	Frequency (MHz)	Max Tune-up ERP(mW)	ERP Threshold(mW)	simultaneous Transmission	simultaneous Transmission Limit
WiFi 5GHz	5775.00	963.829	3060	0.315	≤1
Bluetooth	2480.00	0.100	3060		



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7 Facilities

All measurement facilities used to collect the measurement data are located at

No.11, Wugong 6th Rd., Wugu Dist., New Taipei City, Taiwan.

No. 12, Ln. 116, Wugong 3rd Rd., Wugu Dist., New Taipei City, Taiwan.

--End of Test Report--