廠商會檢定中心

TEST REPORT

Report No.	:	AZ0020191(2)	Date :	20 May 2020	
Application No.	:	LZ010969(3)			
Applicant	:	One World Technologies, Inc. 115 Innovation Way, Anderson, South Carolina, United States, 2	29625.		
Sample Description	:	One(1) item of submitted sample stated to	be :		
I I I I I I I I I I I I I I I I I I I		Sample Description	Model numb	er	
		Car of Hart RC Truck	HPRC01		
Date Received Test Period	:	Sample registration no.: RZ025921-001Radio Frequency: 2415MHz - 24Rating: DC 20V rechat. AC 120V to D: AC 120V to DNo. of submitted sample: Two (2) piece28 Apr 202011 May 2018 to 20 May 2020.	73MHz Trans rgeable battery C 20V adaptor	,	
Test Requested	:	FCC Certification for FCC Part 15, subpart C ISED Certification for License-exempt Device			
Test Method	:	47 CFR Part 15 (10-1-19 Edition), ANSI C63.10 – 2013, ANSI C63.4 – 2014 RSS-210 Issue 10, RSS-Gen Issue 5			
Test Engineer	:	Mr. LEUNG Shu-kan, Ken			
Test Result	:	See attached sheet(s) from page 2 to 25.			
Conclusion	:	The submitted sample was found to comply with requirement of FCC Part 15 Subpart B and C and RSS-210 Issue 10.			

For and on behalf of CMA Industrial Development Foundation Limited

Authorized Signature : Mr. M.ONGLap-papendandedrew Manager V Electrical Division

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Date :

20 May 2020

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1 General Information

1.1 General Description

The equipment under test (EUT) is a car for Hart RC Truck. The EUT is power by DC 20V rechargeable battery. It operates at 2415MHz - 2473MHz. When the EUT received the signal from controller, it will take the corresponding action.

The brief circuit description is listed as follows:

- U7	and its associated circuit act as motor control
- U1	and its associated circuit act as RF circuit
- Y1	and its associated circuit act as oscillator
- U2, U3, U6	and its associated circuit act as voltage control

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1.2 Location of the test site

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.10 – 2013. A Semi-Anechoic Chamber Testing Site is set up for investigation and located at:

Ground Floor, Yan Hing Centre, 9 – 13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong.

Conducted emissions measurements are investigated and also taken pursuant to the procedures of ANSI C63.10 - 2013. A shielded room is located at :

Ground Floor, Yan Hing Centre, 9 – 13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong.

FCC Accredited Lab (Designation Number: HK0004) ISED Wireless Test Site (ISED Assigned Code: 4093A)

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1.3 List of measuring equipment

Equipment	Manufacturer	Model No.	Serial No.	Calibration Due Date	Calibration Period
EMI Test Receiver	R&S	ESCI	100152	15 Jan 2021	1Year
Spectrum Analyzer	R&S	FSV40	100964	29 Oct 2020	1Year
Biconical Antenna	Rohde & Schwarz	HK116	837414/004	20 Oct 2020	2Years
Log Periodic Antenna	Teseq	UPA6109	43666	20 Oct 2020	2Years
Loop Antenna	EMCO	6502	00056620	29 Oct 2020	2Years
Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-531	02 Feb 2023	3Years
Broadband Pre-Amplifier	Schwarzbeck	BBV 9718	9718-119	02 Feb 2023	3Years
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170442	15 Sep 2021	2Years
Broadband Pre-Amplifier	Schwarzbeck	BBV 9719	9719-010	12 Sep 2021	2Years
Horn Antenna	Schwarzbeck	BBHA 9120C	9120C 594	27 Sep 2020	2Years
Pre-amplifier	Schwarzbeck	BBV9718	BBV9718 297	27 Sep 2020	2Years
Coaxial Cable	Schaffner	RG 213/U	N/A	08 May 2020	1Year
Coaxial Cable	Suhner	RG 214/U	N/A	08 May 2020	1Year
Coaxial Cable	Suhner	Sucoflex_104	N/A	14 Jan 2022	2Years
LISN	Rohde & Schwarz	ENV 216	101232	12 Jan 2023	1Year
Coaxial Cable	Tyco Electronics	RG 58/U	N/A	20 Oct 2020	1Year

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1.4 Measurement Uncertainty

The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%.

Radiated emissions

Radiated emissions	
Frequency	Uncertainty (U_{lab})
1 2	5 (mb)
30MHz ~ 200MHz (Horizontal)	4.59dB
30MHz ~ 200MHz (Vertical)	4.49dB
200MHz ~1000MHz (Horizontal)	4.94dB
200MHz ~1000MHz (Vertical)	4.97dB
	4 50 ID
1GHz ~6GHz	4.52dB
	4 50 10
6GHz ~18GHz	4.58dB

Conducted emissions

Frequency	Uncertainty (U _{lab})
9kHz ~ 150kHz	2.83dB
150kHz ~ 30MHz	2.80dB

1.5 Test Summary

TEST ITEM	FCC REFERANCE	RESULT
Radiated emission	15.249(a)	Comply
Out-band emission	15.249(d)	Comply
Peak Limit	15.249(e)	Comply
Bandwidth	15.215(c)	Comply

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2 Description of the radiated emission test

2.1 Test Procedure

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.10 - 2013.

A non-conductive turntable with dimensions of $1.5m \ge 0.4m \ge 0.8m$ (L $\ge W \ge H$) placed above the reference ground plane. The equipment under test (EUT) was placed at 0.8m height for below 1GHz measurement and 1.5m height for above 1GHz measurement. The test distance is 3m between EUT and receiving antenna. A broadband antenna mounting on the mast received the signal strength. The turntable was rotated to maximize the emission level. The antenna was moving along the mast from 1m up to 4m until no more higher value was found. Both horizontal and vertical polarization of the antenna were placed and investigated. Additional absorbing material will be placed between the EUT and receiving antenna for above 1GHz measurement.

For below 30MHz, a loop antenna with its vertical plane is placed 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1 m above the ground.

The device was rotated through three orthogonal axes to determine which attitude and configuration produce the highest emission during measurement.

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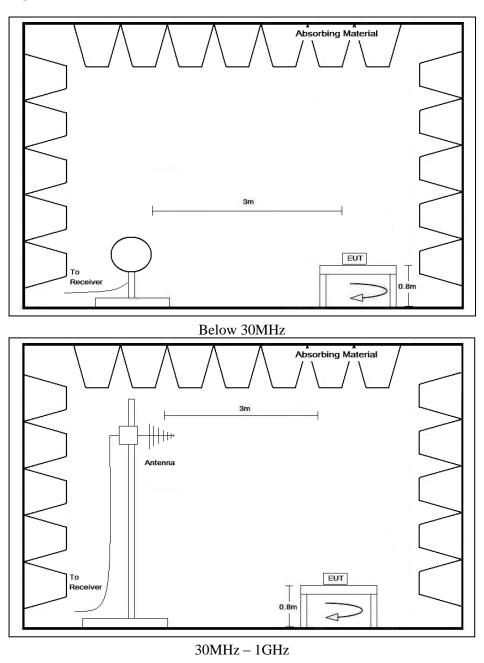
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2.2 Test Setup



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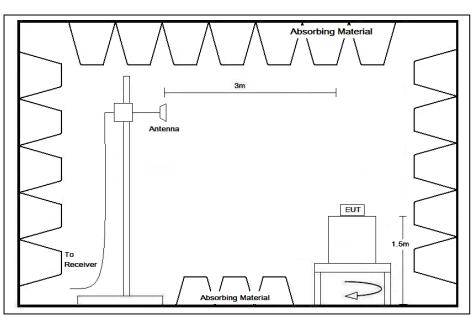
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2.2 Test Setup



Above 1GHz

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2.3 Test Result

Peak Detector data was measured unless otherwise stated.

The radiated emissions are measured from 9kHz to 26GHz (the tenth harmonics)

The worst case configuration is shown on the worst case configuration of test setup photo.

"#" means emissions appearing within the restricted bands of 47 CFR Part 15 section 15.205 and "*" means emission appearing within the restricted band of RSS-GEN section 8.10.

The frequencies from fundamental up to tenth harmonics were investigated, and emissions more 20dB below limit were not reported. Thus, those highest emissions were presented in next pages.

The EUT has been tested in Transmission mode.

It was found that the EUT meet the FCC requirement.

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2.4 Radiated Emission Measurement Data

Environmental conditions:

Parameter	Recorded value	
Ambient temperature:	24.3	°C
Relative humidity:	52.7	%

Channel: 2415MHz

Polarization	Frequency (MHz)	Reading at 3m (dBµV)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)	Detector Type
Н	2414.763	94.7	-4.7	90.0	94.0	-4.0	Peak
V	2414.920	96.6	-4.7	91.9	94.0	-2.1	Peak
Н	2400.000	54.8	-4.7	50.1	54.0	-3.9	Peak
V	2400.000	55.9	-4.7	51.2	54.0	-2.8	Peak
Н	4829.938	47.8	3.8	51.6	54.0	-2.4	Peak
V	4829.996	46.9	3.8	50.7	54.0	-3.3	Peak
Н	7244.964	33.5	11.2	44.7	54.0	-9.3	Peak
V	7244.996	33.9	11.2	45.1	54.0	-8.9	Peak

Remark: 1) The peak detector value is below the average limit for all emissions, so no additional average measurement is needed

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Channal	2444MU-
Channel:	2444MHz

Polarization	Frequency	Reading at	Antenna Factor	Field Strength	Limit at 3m	Margin	Detector
	(MHz)	3m	and Cable Loss	at 3m	$(dB\mu V/m)$	(dB)	Туре
		(dBµV)	(dB/m)	(dBµV/m)			
Н	2443.979	96.4	-4.7	91.7	94.0	-2.3	Peak
V	2443.999	99.9	-4.7	95.2	114.0	-18.8	Peak
V	2443.999	83.2	-4.7	78.5	94.0	-15.5	Average
Н	4886.481	51.6	3.8	55.4	74.0	-18.6	Peak
Н	4887.945	32.7	3.8	36.5	54.0	-17.5	Average
V	4888.005	52.9	3.8	56.7	74.0	-17.3	Peak
V	4887.935	36.2	3.8	40.0	54.0	-14.0	Average
Н	7332.005	34.0	11.2	45.2	54.0	-8.8	Peak
V	7332.137	34.2	11.2	45.4	54.0	-8.6	Peak

Remark: 1) The peak detector value is below the average limit at emission of 2443.979MHz and above 7GHz, so no additional average measurement is done

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Channel	2473MHz
Channel.	$\Delta \tau / J M \Pi L$

Polarization	Frequency (MHz)	Reading at 3m (dBµV)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)	Detector Type
Н	2472.972	97.2	-4.7	92.5	94.0	-1.5	Peak
V	2472.715	101.1	-4.7	96.4	114.0	-17.6	Peak
V	2472.990	84.5	-4.7	79.8	94.0	-14.2	Average
Н	2483.500	61.2	-4.7	56.5	74.0	-17.5	Peak
Н	2483.500	28.1	-4.7	23.4	54.0	-30.6	Average
V	2483.500	65.4	-4.7	60.7	74.0	-13.3	Peak
V	2483.500	29.2	-4.7	24.5	54.0	-29.5	Average
Н	4945.825	48.5	3.8	52.3	54.0	-1.7	Peak
V	4945.944	53.9	3.8	57.7	74.0	-16.3	Peak
V	4945.954	37.4	3.8	41.2	54.0	-12.8	Average
Н	7418.980	35.5	11.2	46.7	54.0	-7.3	Peak
V	7418.905	34.5	11.2	45.7	54.0	-8.3	Peak

Remark: 1) The peak detector value is below the average limit at emission of 2472.972MHz, 4945.825MHz and above 7GHz, so no additional average measurement is done

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Test	mode:	Charging
rest	moue.	Charging

Polarization	Frequency (MHz)	Reading at 3m (dBµV)	Transducer Factor (dB/m)	Field Strength at 3m ¹ (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)	Detector (PK/ QP/AV)
Н	40.497	22.0	13.0	35.0	40.0	-5.0	QP
V	44.155	21.4	13.0	34.4	40.0	-5.6	QP
V	80.241	26.8	10.5	37.3	40.0	-2.7	QP
Н	140.682	10.5	15.0	25.5	43.5	-18.0	QP
V	202.800	8.1	15.0	23.1	43.5	-20.4	QP
Н	231.065	9.0	15.0	24.0	46.0	-22.0	QP
Н	313.066	10.9	17.7	28.6	46.0	-17.4	QP

Remark: 1) Field Strength = Reading + transducer factor.

2) Other emissions with more than 20dB margin are not reported in this report

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3 Description of the Line-conducted Test

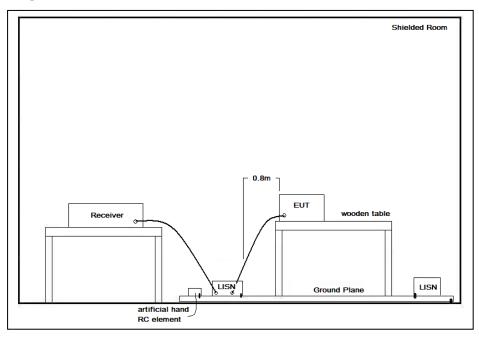
3.1 Test Procedure

Conducted emissions measurements are investigated and also taken pursuant to the procedures of ANSI C63.10 – 2013. The EUT was setup as described in the procedures, and both lines were measured.

3.2 Test Result

It was found that the EUT met the FCC requirement.

3.3 Test Setup



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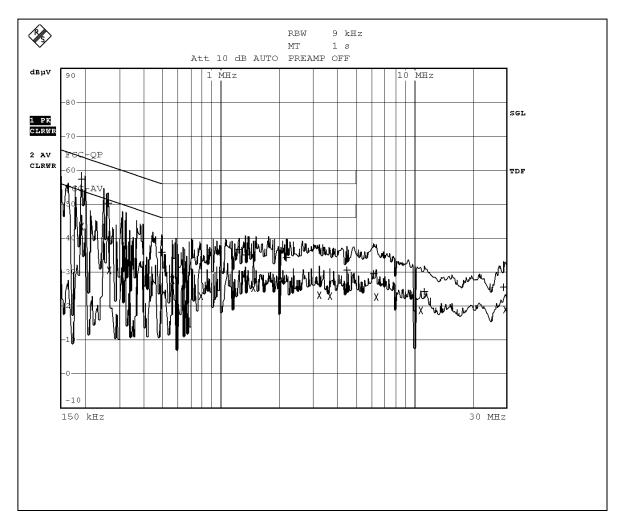
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3.4 Graph and Table of Conducted Emission Measurement Data

Testing terminal: L



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3.4 Graph and Table of Conducted Emission Measurement Data

Testing terminal: L

	EDI	T PEAK LIST (Final	. Measurement Resu	lts)
Tra	cel:	FCC-QP		
Tra	ce2:	FCC-AV		
Tra	.ce3:			
	TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
1	Quasi Peak	190.5 kHz	57.21 Ll gnd	-6.80
2	Average	190.5 kHz	43.29 L1 gnd	-10.72
1	Quasi Peak	262.5 kHz	50.28 L1 gnd	-11.06
2	Average	267 kHz	30.67 Ll gnd	-20.53
1	Quasi Peak	496.5 kHz	35.91 Ll gnd	-20.14
2	Average	558.5 kHz	27.72 L1 gnd	-18.27
2	Average	788 kHz	23.06 L1 gnd	-22.94
1	Quasi Peak	1.247 MHz	36.55 Ll gnd	-19.44
1	Quasi Peak	1.346 MHz	35.04 Ll gnd	-20.96
2	Average	1.4765 MHz	25.21 L1 gnd	-20.79
1	Quasi Peak	2.1785 MHz	34.26 Ll gnd	-21.73
2	Average	3.2315 MHz	23.18 L1 gnd	-22.82
2	Average	3.6725 MHz	22.99 L1 gnd	-23.00
1	Quasi Peak	4.4825 MHz	30.44 L1 gnd	-25.55
1	Quasi Peak	6.206 MHz	29.46 L1 gnd	-30.53
2	Average	6.4085 MHz	22.65 L1 gnd	-27.34
2	Average	10.877 MHz	18.74 L1 gnd	-31.25
1	Quasi Peak	11.3225 MHz	24.14 L1 gnd	-35.85
1	Quasi Peak	29.039 MHz	25.67 Ll gnd	-34.32
2	Average	29.7995 MHz	19.11 L1 gnd	-30.89

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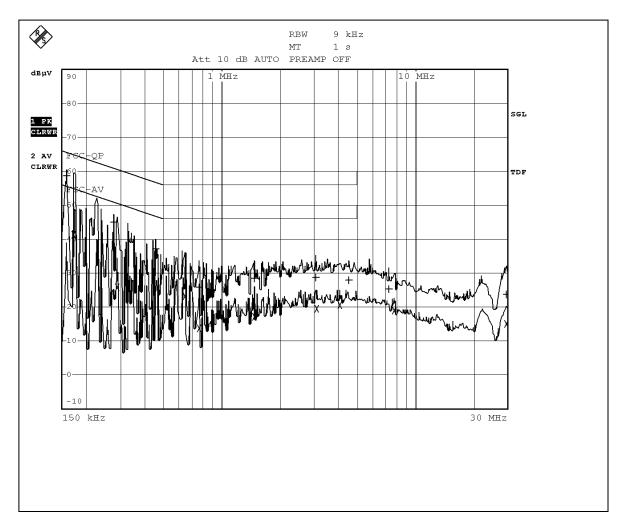
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3.4 Graph and Table of Conducted Emission Measurement Data

Testing terminal: N



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3.4 Graph and Table of Conducted Emission Measurement Data

Testing terminal: N

Tra	icel:	FCC-QP			
Tra	ice2:	FCC-AV			
Tra	ice3:				
	TRACE	FREQUENCY	LEVEL di		DELTA LIMIT dB
1	Quasi Peak	159 kHz	58.73		-6.78
2	Average	172.5 kHz	41.18	2	-13.65
1	Quasi Peak	276 kHz	44.86	N gnd	-16.07
2	Average	289.5 kHz	25.80	N gnd	-24.73
1	Quasi Peak	456 kHz	37.07	N gnd	-19.69
2	Average	644 kHz	23.20	N gnd	-22.80
1	Quasi Peak	761 kHz	25.76	N gnd	-30.23
2	Average	761 kHz	13.86	N gnd	-32.13
1	Quasi Peak	1.481 MHz	28.40	N gnd	-27.59
2	Average	1.481 MHz	17.28	N gnd	-28.71
1	Quasi Peak	3.065 MHz	28.79	N gnd	-27.21
2	Average	3.11 MHz	19.62	N gnd	-26.38
2	Average	4.0955 MHz	20.52	N gnd	-25.47
1	Quasi Peak	4.5455 MHz	28.03	N gnd	-27.96
1	Quasi Peak	7.3265 MHz	25.28	N gnd	-34.71
2	Average	7.799 MHz	18.92	N gnd	-31.07
1	Quasi Peak	29.7005 MHz	23.79	N gnd	-36.21
2	Average	29.7005 MHz	15.17	N gnd	-34.82

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4 Supplementary document

The following document were submitted by applicant, and for electronic filing, the document are saved with the following filenames:

Document	Filename		
ID Label/Location	Label Artwork and Location.pdf		
Block Diagram	Block Diagram.pdf		
Schematic Diagram	Schematic.pdf		
Users Manual	User Manual.pdf		
Operational Description	Operation Description.pdf		

4.1 Bandwidth

Appendices A1 is shown the fundamental emission is confined in the specified band. 20dB bandwidth is 4.327MHz. It also shows that the EUT met the FCC Part 15.215(c).

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Laboratories

CMA Testing and Certification

廠商會檢定中心

TEST REPORT

Repor	t No.	: AZ0020191(2)		Date :	20 May 2020
5	Appe	ndices			
	A1	20dB Bandwidth Plot	2	pages	
	A2	99% Bandwidth Plot	2	pages	

FCC ID: VMZ-HPRC01R IC: 9880A-HPRC01R Page 21 of 25

The conformity statement stated in Conclusion above is based on the decision rule agreed with applicant and listed in <u>www.cmatesting.org/qac/statement-of-conformity.pdf</u> This document is issued subject to the latest CMA Testing General Terms and Conditions of Testing and Inspection Services, available on request or accessible at website <u>www.cmatesting.org</u>. This document shall not be reproduced except in full or with written approval by CMA Testing. The observations and test results in this report are relevant only to the sample tested.

CMA Testing

廠商會檢定中心

TEST REPORT

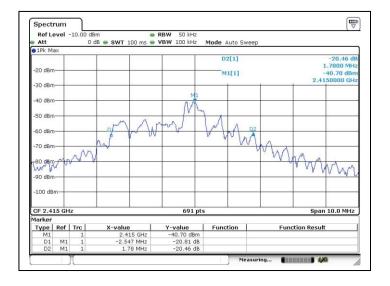
Report No.

AZ0020191(2)

:

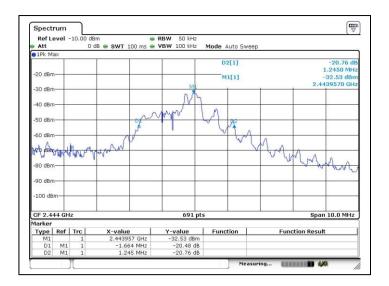
Date :

20 May 2020



A1. 20dB Bandwidth Plot

Channel: 2415MHz



Channel: 2444MHz

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

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FCC ID: VMZ-HPRC01R IC: 9880A-HPRC01R

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<u>TEST REPORT</u>

Report No.

AZ0020191(2)

:

Date :

20 May 2020



A1. 20dB Bandwidth Plot

Channel: 2473MHz

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

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CMA Testing

TEST REPORT

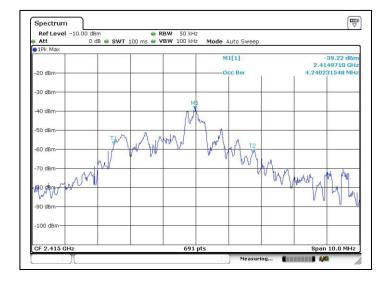
Report No.

AZ0020191(2)

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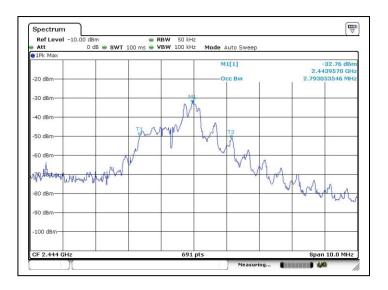
Date :

20 May 2020



A2. 99% Bandwidth Plot

Channel: 2415MHz



Channel: 2444MHz

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

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FCC ID: VMZ-HPRC01R IC: 9880A-HPRC01R

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TEST REPORT

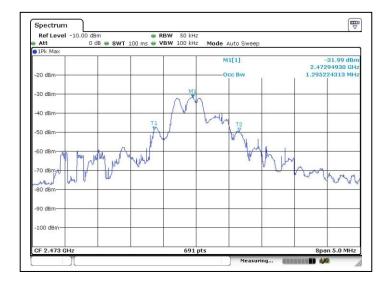
Report No.

AZ0020191(2)

:

Date :

20 May 2020



A2. 99% Bandwidth Plot

Channel: 2473MHz

***** End of Report *****

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

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