TEST REPORT

Report Number: C20T00017-SRD02

Applicant	NetEase Youdao Information Technology (Beijing) Co., Ltd.
Product Name	Youdao Dictionary Pen 3
Model Name	YDP031
Brand Name	Youdao
FCC ID	2AV6G-YDP031

Industrial Internet Innovation Center (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in FCC Part15, ANSI C63.10, KDB 558074.

Prepared by	刘艳	Reviewed by	范逸艳
Approved by	熊增勤	Issue Date	2021-02-08

Industrial Internet Innovation Center (Shanghai) Co., Ltd.

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Test Laboratory:
Industrial Internet Innovation Center (Shanghai) Co., Ltd.
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Tel: +86 21 63843300

Revision Version

Report Number	Revision	Date	Memo
C20T00017-SRD02	00	2021-01-29	Initial creation of test report
C20T00017-SRD02	01	2021-02-08	First modification of test report

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1. Test Laboratory

1.1. Testing Location

Company Name	Industrial Internet Innovation Center (Shanghai) Co., Ltd.
Address	Building 4, No. 766 Jingang Rd, Pudong, Shanghai, China
FCC Registration No.	CN1177

1.2. Testing Environment

Normal Temperature	15℃~35℃
Relative Humidity	30%RH~60%RH
Supply Voltage	120V/60Hz

1.3. Project Information

Project Leader	Xu Yuting
Testing Start Date	2020-11-17
Testing End Date	2020-12-06

2. Client Information

2.1. Applicant Information

Company Name	NetEase Youdao Information Technology (Beijing) Co., Ltd.
Address	No.7 Building,Zhongguancun Software Park West,No.10 Xibeiwang East RD,Haidian District,Beijing,PRC
Telephone	13606702660

2.2. Manufacturer Information

Company Name	Mobiwire Mobiles(NingBo) Co.,LTD
Address	Building A,No.999 Dacheng East Road,Fenghua District,Ningbo City,Zhejiang Province,PRC
Telephone	13586835362

3. Equipment under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Product Name	Youdao Dictionary Pen 3
Model name	YDP031
Supported Radio Technology and Bands	BT4.2 WLAN 802.11 b,g,n
BLE Frequency	2402MHz-2480MHz
BLE Channel	Ch0-39
BLE Modulation	GFSK
Hardware Version	WM98-CHERRY-DVT2
Software Version	V1.0.0
FCC ID	2AV6G-YDP031
Extreme Temperature	-10℃~50℃
Nominal Voltage	3.85V
Extreme High Voltage	4.40V
Extreme Low Voltage	3.50V
Maximum of Antenna Gain	2.04dBi

Note: Photographs of EUT are shown in ANNEX B of this test report.

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
N02	2AA1400000301960	WM98-CHERRY-DVT2	V1.0.0	2020-11-17
N05	2AA1400000302735	WM98-CHERRY-DVT2	V1.0.0	2020-11-17

*EUT ID: is internally used to identify the test sample in the lab.

3.3. Internal Identification of AE used during the test

AE ID*	Description	Model	SN/Remark
AE1	RF cable	---	AE1

*AE ID: is internally used to identify the test sample in the lab.

4. Reference Documents

4.1. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part15	FCC CFR 47, Part 15, Subpart C: 15.205 Restricted bands of operation; 15.209 Radiated emission limits, general requirements; 15.247 Operation within the bands 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz.	2018-10-01
ANSI C63.10	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices	2013
KDB 558074	Guidance for Performing Compliance Measurements on Frequency Hopping Spread Spectrum systems (DSS) Operating Under §15.247	v05r02

5. Test Summary

5.1. Summary of Test Results

Measurement Items	Sub-clause of Part15C	Verdict
Maximum Peak Output Power	15.247(b)	Pass
Peak Power Spectral Density	15.247(e)	Pass
6dB Occupied Bandwidth	15.247(a)	Pass
Band Edges Compliance	15.247(d)	Pass
Transmitter Spurious Emission-Conducted	15.247	Pass
Transmitter Spurious Emission-Radiated	15.247	Pass
AC Powerline Conducted Emission	15.107,15.207	Pass

Note: please refer to Annex A in this test report for the detailed test results.

Test Conditions

Tnom	Normal Temperature
Tmin	Low Temperature
Tmax	High Temperature
Vnom	Normal Voltage
Vmin	Low Voltage
Vmax	High Voltage
Hnom	Norm Humidity
Anom	Norm Air Pressure

For this report, all the test case listed above are tested under Normal Temperature and Normal Voltage, and also under norm humidity, the specific conditions as following:

Temperature	Tnom	25℃
Voltage	Vnom	3.85V
Humidity	Hnom	48%
Air Pressure	Anom	1010hPa

5.2. Statements

The Youdao Dictionary Pen 3, manufactured by Mobiwire Mobiles(NingBo) Co.,LTD. is a new product for testing.

Industrial Internet Innovation Center (Shanghai) Co., Ltd. only performed test cases which identified with Pass/Fail/Inc result in section 5.1.

Industrial Internet Innovation Center (Shanghai) Co., Ltd. has verified that the compliance of the tested device specified in section 3 of this test report is successfully evaluated according to the procedure and test methods as defined in type certification requirement listed in section 4 of this test report.

6. Measurement Results

Shielding Room1 (6.0 meters×3.0 meters×2.7 meters) did not exceed following limits along the conducted RF performance testing:

Temperature	Min. = 15 ℃, Max. = 35 ℃
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	> 100 dB
Ground system resistance	< 0.5 Ω

Control room did not exceed following limits along the EMC testing:

Temperature	Min. = 15 ℃, Max. = 35 ℃
Relative humidity	Min. =30 %, Max. = 60 %
Shielding effectiveness	> 100 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω

Fully-anechoic chamber1 (6.9 meters×10.9 meters×5.4 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 ℃, Max. = 35 ℃
Relative humidity	Min. = 25 %, Max. = 75 %
Shielding effectiveness	> 100 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω
VSWR	Between 0 and 6 dB, from 1GHz to 18GHz
Site Attenuation Deviation	Between -4 and 4 dB,30MHz to 1GHz
Uniformity of field strength	Between 0 and 6 dB, from 80MHz to 3000 MHz

ANNEX A. Detailed Test Results

ANNEX A.1. Peak Output Power-Conducted

A.1.1 Measurement Limit

Standard	Limit (dBm)
FCC 47 Part 15.247(b)(1)	< 30

A.1.2 Test Condition:

DTS procedure	RBW	VBW	Span	Sweeptime
BT-LE	3MHz	10MHz	9MHz	Auto

A.1.3 Test procedure

The measurement is according to ANSI C63.10 clause 11.9.1

a) Set the RBW ⩾ DTS bandwidth.

b) Set VBW ⩾ [3 × RBW].

c) Set span ⩾ [3 × RBW].

d) Sweep time = auto couple.

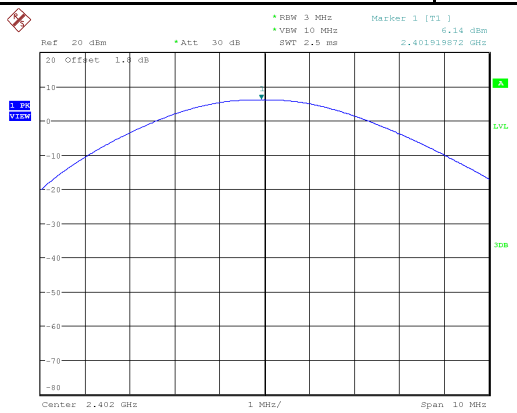
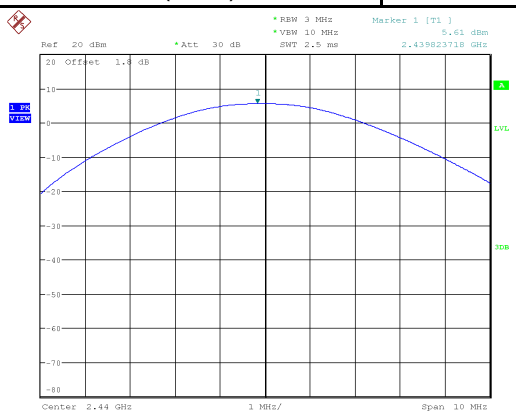
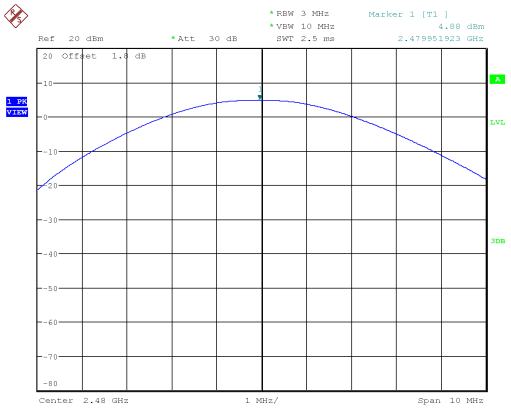
e) Detector = peak.

f) Trace mode = max hold.

g) Allow trace to fully stabilize.

h) Use peak marker function to determine the peak amplitude level.

Measurement Results:

Peak Conducted Output Power CH0 (dBm)	6.140	Peak Conducted Output Power CH19 (dBm)	5.614
			
Peak Conducted Output Power CH39 (dBm)	4.881	/	
		/	

ANNEX A.2. Peak Power Spectral Density

A.2.1 Measurement Limit:

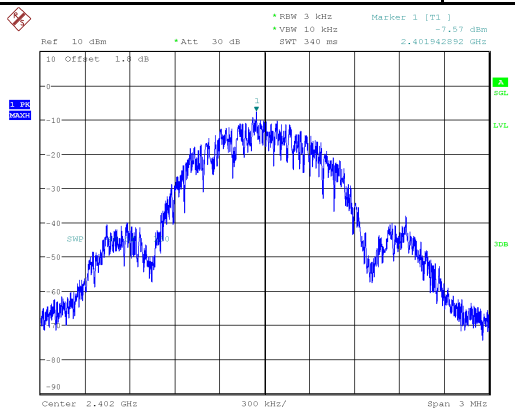
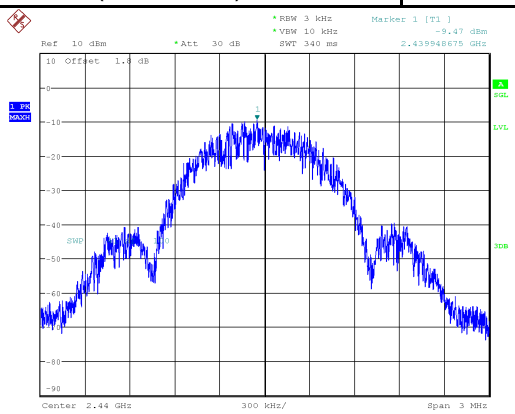
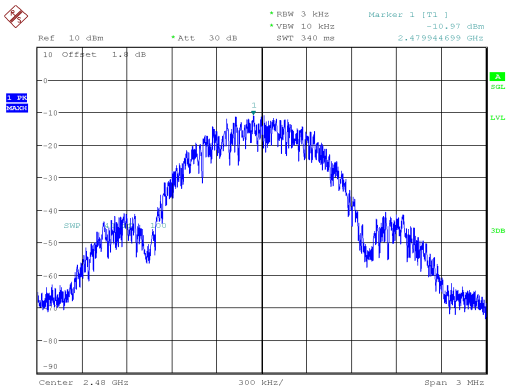
Standard	Limit
FCC 47 Part 15.247(e)	< 8dBm/3 kHz

A.2.2 Test procedures

The measurement is according to ANSI C63.10 clause 11.10.

1. The output power of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
2. Enable EUT transmitter maximum power continuously.
3. Set analyzer center frequency to DTS channel center frequency.
4. Set the span to 1.5 times the DTS bandwidth.
5. Set the RBW to 3 kHz ⩽ RBW ⩽ 100 kHz.
6. Set the VBW ⩾ [3 × RBW].
7. Detector = peak.
8. Sweep time = auto couple.
9. Trace mode = max hold.
10. Allow trace to fully stabilize.
11. Use the peak marker function to determine the maximum amplitude level within the RBW.
12. If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

Measurement Results:

Power spectral density: CH0 (dBm/3kHz)	-7.572	Power spectral density: CH19 (dBm/3kHz)	-9.468
			
Power spectral density: CH39 (dBm/3kHz)	-10.974	/	
		/	

ANNEX A.3. 6dB Bandwidth

A.3.1 Measurement Limit:

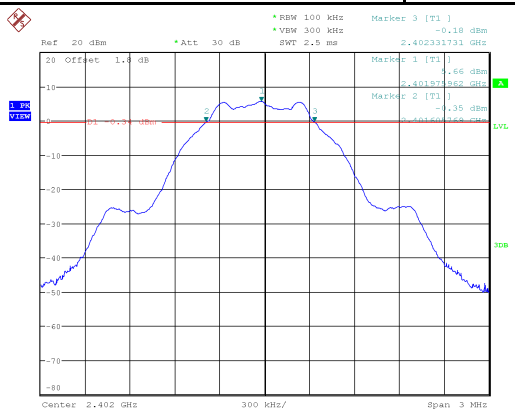
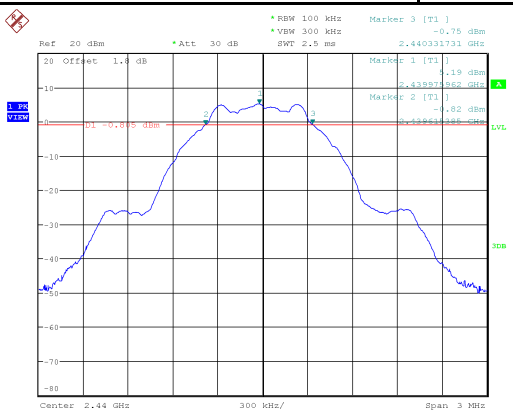
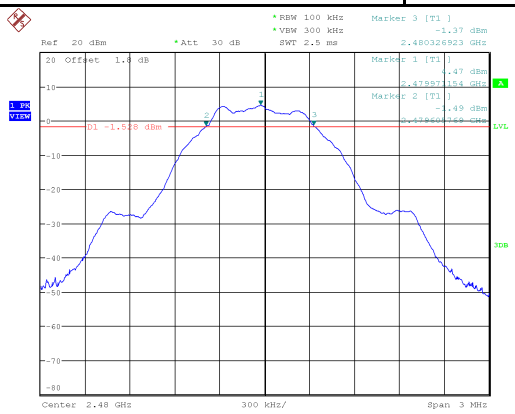
Standard	Limit
FCC 47 Part 15.247 (a) (1)	⩾500k

A.3.2 Test procedures

The measurement is according to ANSI C63.10 clause 11.8.

1. The output power of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
2. Enable EUT transmitter maximum power continuously.
3. Set RBW = 100 kHz.
4. Set the VBW ⩾ [3 × RBW].
5. Detector = peak.
6. Trace mode = max hold.
7. Sweep = auto couple.
8. Allow the trace to stabilize.
9. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Measurement Result:

6dB Bandwidth: Ch0(kHz)	726	6dB Bandwidth: Ch19(kHz)	716
			
6dB Bandwidth: Ch39(kHz)	721	/	
		/	

ANNEX A.4. Frequency Band Edges-Conducted

A.4.1 Measurement Limit:

Standard	Limited(dBc)
FCC 47 Part 15.247(d)	>20

A.4.2 Test procedure

The measurement is according to ANSI C63.10 clause 11.13.2

1) Span: Wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products that fall outside of the authorized band of operation.

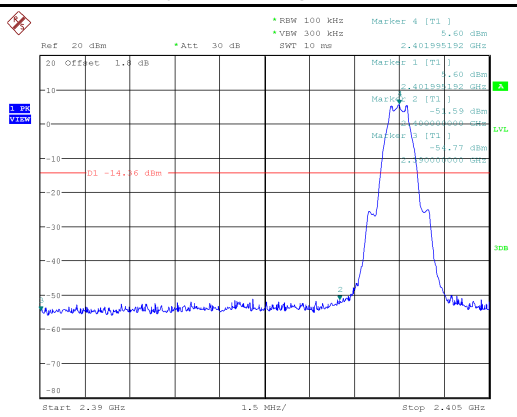
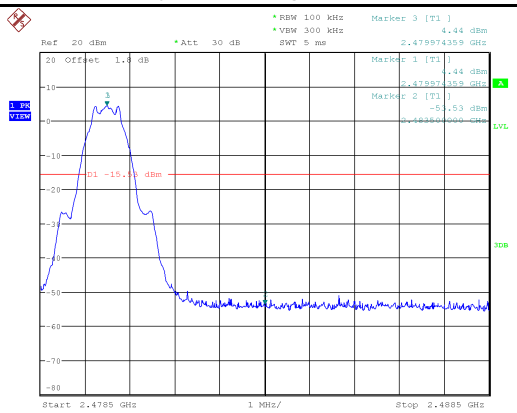
2) Reference level: As required to keep the signal from exceeding the maximum instrument input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2.

3) Attenuation: Auto (at least 10 dB preferred).

4) Sweep time: Coupled.

5) Resolution bandwidth: 100 kHz.6) Video bandwidth: 300 kHz.7) Detector: Peak.8) Trace: Max hold.

Measurement results:

Frequency Band Edge: GFSK, Ch0	Frequency Band Edge: GFSK, Ch39
	

ANNEX A.5. Conducted Emission

A.5.1 Measurement Limit:

Standard	Limit
FCC 47 Part15.247 (d)	20dB below peak output power in 100KHz bandwidth

A.5.2 Test procedures

This measurement is according to ANSI C63.10 clause 11.11.

1. The output power of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
2. Enable EUT transmitter maximum power continuously.

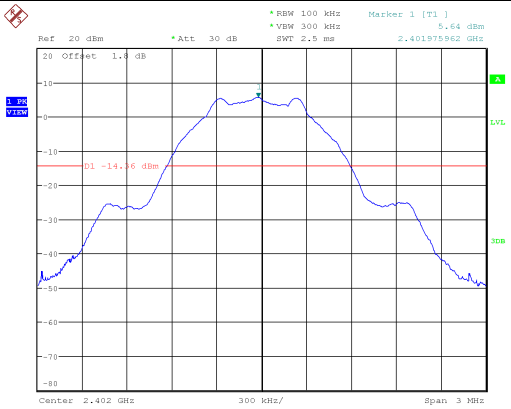
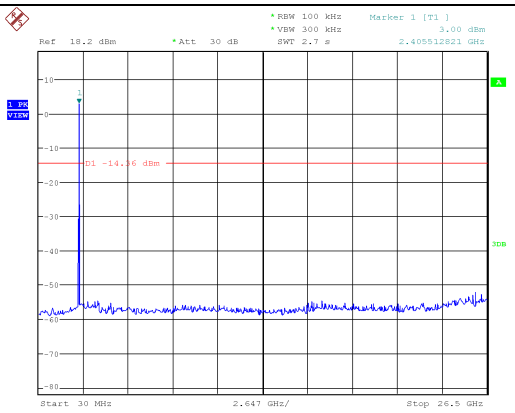
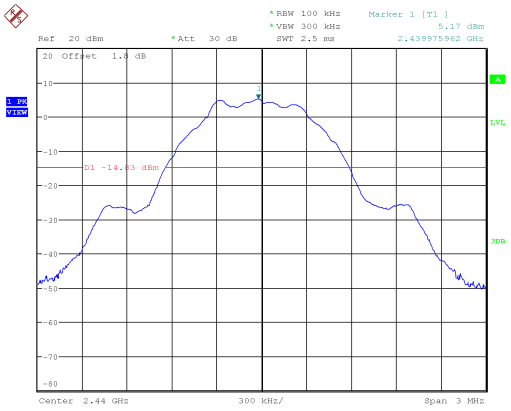
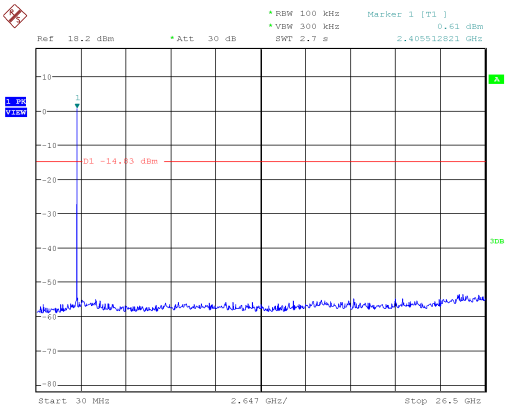
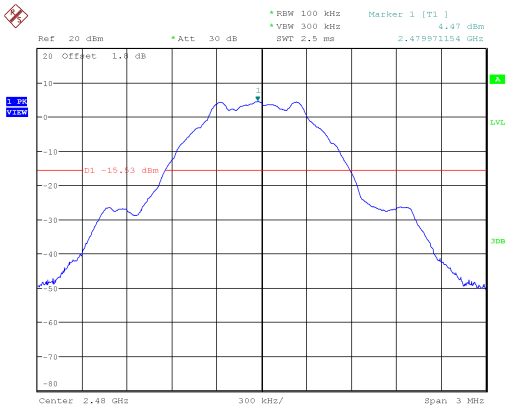
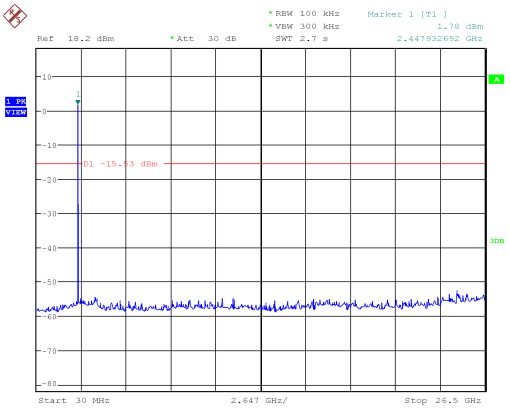
Reference level measurement

3. Set instrument center frequency to DTS channel center frequency.
4. Set the span to ⩾ 1.5 times the DTS bandwidth.
5. Set the RBW = 100 kHz.
6. Set the VBW ⩾ [3 × RBW].
7. Detector = peak.
8. Sweep time = auto couple.
9. Trace mode = max hold.
10. Allow trace to fully stabilize.
11. Use the peak marker function to determine the maximum PSD level.

Emission level measurement

12. Set the center frequency and span to encompass frequency range to be measured.
13. Set the RBW = 100 kHz.
14. Set the VBW ⩾ [3 × RBW].
15. Detector = peak.
16. Sweep time = auto couple.
17. Trace mode = max hold.
18. Allow trace to fully stabilize.
19. Use the peak marker function to determine the maximum amplitude level.

Measurement Results:

Conducted spurious emission: Ch0, 2402MHz	Conducted spurious emission: Ch0, 30MHz~26GHz
	
Conducted spurious emission: Ch19, 2441MHz	Conducted spurious emission:Ch19, 30MHz~26GHz
	
Conducted spurious emission: Ch39, 2480MHz	Conducted spurious emission: Ch39, 30MHz~26GHz
	

A.6.1 Measurement Limit:

Standard	Limit
FCC 47 Part 15.205,15.209,15.247	20dB below peak output power

In addition, radiated emissions which fall in the restricted bands, as defined in 15.205(a), must also comply with the radiated emission limits specified in 15.209(a) (see 15.205(c)).

Limit in restricted band:

Frequency of emission	Field strength (uV/m)	Field strength (dBuV/m)
30~88	100	40
88~216	150	43.5
216~960	200	46
Above 960	500	54

A.6.2 Test Method

Portable, small, lightweight, or modular devices that may be handheld, worn on the body, or placed on a table during operation shall be positioned on a non-conducting platform, the top of which is 80 cm above the reference ground plane. The preferred area occupied by the EUT arrangement is 1 m by 1.5 m, but it may be larger or smaller to accommodate various sized EUTs. For testing purposes, ceiling- and wall-mounted devices also shall be positioned on a tabletop (see also ANSI C63.10-2013 section 6.3.4 and 6.3.5). In making any tests involving handheld, body-worn, or ceiling-mounted equipment, it is essential to recognize that the measured levels may be dependent on the orientation (attitude) of the three orthogonal axes of the EUT. Thus, exploratory tests as specified in 8.3.1 shall be carried out for various axes orientations to determine the attitude having maximum or near-maximum emission level.

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

Frequency of emission	RBW/VBW	Sweep Time (s)
30~1000	100KHz/300KHz	5
1000~4000	1MHz/3MHz	15
4000~18000	1MHz/3MHz	40
18000~26500	1MHz/3MHz	20

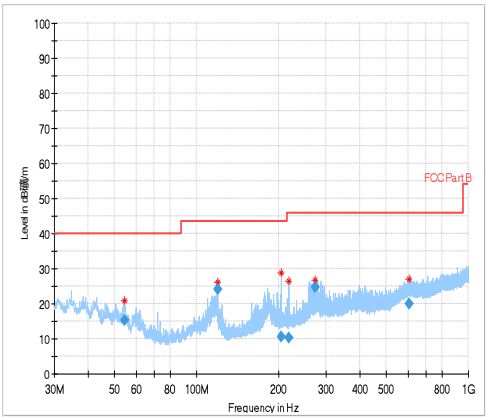
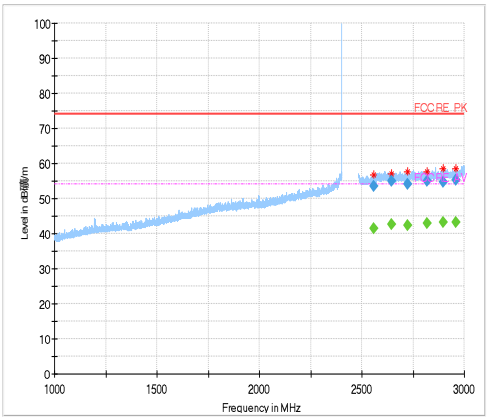
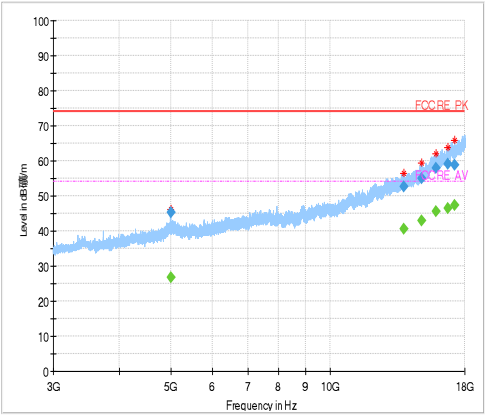
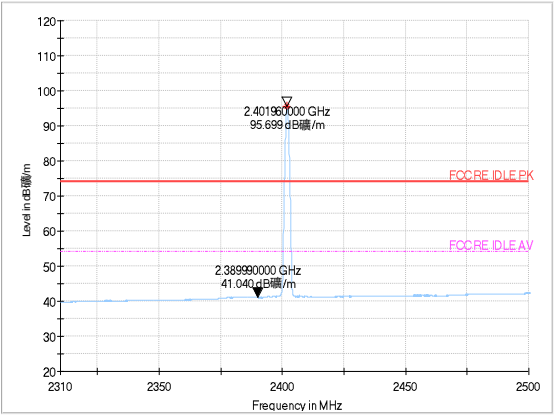
A.6.3 Measurement Results:

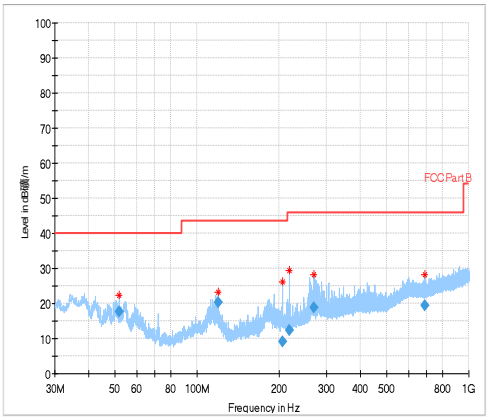
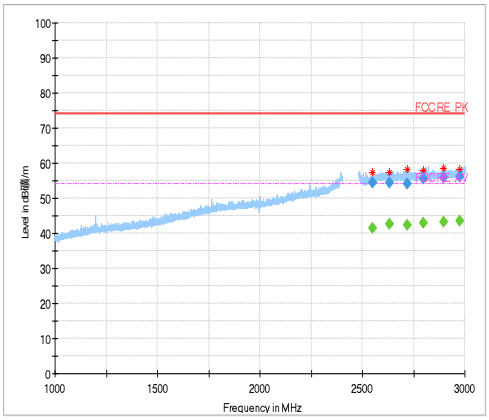
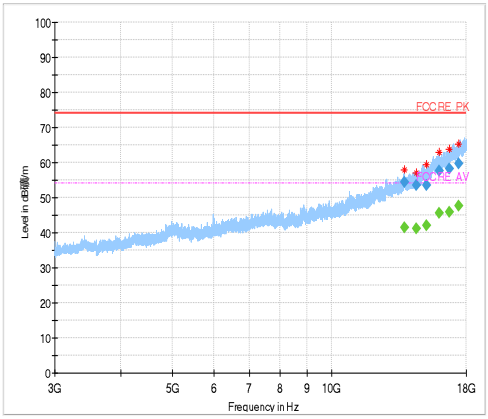
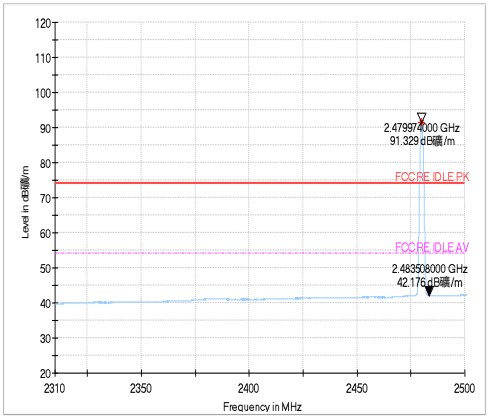
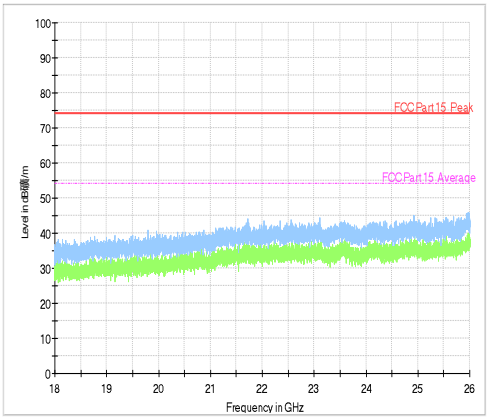
A “reference path loss” is established and A_{Rpi} is the attenuation of “reference path loss”, and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

The measurement results are obtained as described below:

A_{Rpi} = Cable loss + Antenna Gain-Preamplifier gain

Result=P_{Mea} + A_{Rpi}

Radiated emission: Ch0, 30MHz~1GHz	Radiated emission: Ch0, 1GHz~3GHz
	
Radiated emission: Ch0, 3GHz~18GHz	**Band edge: Ch0**
	

Radiated emission: Ch39, 30MHz~1GHz	Radiated emission: Ch39, 1GHz~3GHz
	
Radiated emission: Ch39, 3GHz~18GHz	**Bandedge:Ch39**
	
ALL Channel 18GHz~26GHz	/
	/

Ch0 30MHz-1GHz (Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
54.2	15.38	-15.4	30.78	V
120.0	23.99	-16.6	40.59	H
205.2	10.72	-14.9	25.62	V
218.3	10.15	-14	24.15	V
273.8	24.72	-11.9	36.62	H
604.1	19.92	-2.9	22.82	V

Ch0 1GHz-3GHz (Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
2557.2	53.58	17.1	36.48	H
2642.8	55.13	17.8	37.33	H
2722.1	54	17.9	36.1	H
2816.3	54.88	18.3	36.58	H
2897.5	54.79	18.7	36.09	H
2958.9	55.34	18.9	36.44	V

Ch0 1GHz-3GHz (Average)

Frequency(MHz)	Result(dBuV/m)	ARpl(dB)	PMea(dBuV/m)	Polarity
2642.8	42.53	17.8	24.73	H
2722.1	42.3	17.9	24.4	H
2816.3	42.87	18.3	24.57	H
2897.5	43.25	18.7	24.55	H
2958.9	43.31	18.9	24.41	V

Ch0 3GHz-18GHz (Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl(dB)	PMea(dBuV/m)	Polarity
4999.6	45.15	4.3	40.85	V
13825.5	52.79	18.3	34.49	H
14924.5	55.11	22.1	33.01	H
15900.1	58.05	25.4	32.65	H
16711.3	59.19	26.8	32.39	V
17241.5	58.9	27.5	31.4	V

Ch0 3GHz-18GHz (Average)

Frequency(MHz)	Result(dBuV/m)	ARpl(dB)	PMea(dBuV/m)	Polarity
14924.5	42.81	22.1	20.71	H
15900.1	45.49	25.4	20.09	H
16711.3	46.51	26.8	19.71	V
17241.5	47.37	27.5	19.87	V

Ch39 30MHz-1GHz (Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl(dB)	PMea(dBuV/m)	Polarity
51.7	17.56	-15.5	33.06	V
120.0	20.35	-16.6	36.95	H
206.6	9.2	-14.8	24	H
218.2	12.49	-14	26.49	V
269.9	18.84	-12	30.84	H
687.0	19.34	-3.2	22.54	V

Ch39 1GHz-3GHz (Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl(dB)	PMea(dBuV/m)	Polarity
2549.7	54.53	17	37.53	V
2630.9	54.39	17.8	36.59	H
2717.7	54.24	17.9	36.34	V
2799.4	55.52	18.2	37.32	H
2895.9	55.96	18.7	37.26	V
2976.0	56.27	19.2	37.07	H

Ch39 1GHz-3GHz (Average)

Frequency(MHz)	Result(dBuV/m)	ARpl(dB)	PMea(dBuV/m)	Polarity
2549.7	41.59	17	24.59	V
2630.9	42.69	17.8	24.89	H
2717.7	42.32	17.9	24.42	V
2799.4	42.99	18.2	24.79	H
2895.9	43.2	18.7	24.5	V
2976.0	43.56	19.2	24.36	H

Ch39 3GHz-18GHz (Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl(dB)	PMea(dBuV/m)	Polarity
13746.8	54.38	18.4	35.98	V
14462.5	53.58	19.7	33.88	H
15137.5	53.64	21.3	32.34	H
16016.4	57.7	25.1	32.6	V
16702.5	58.3	26.8	31.5	V
17390.1	59.85	28.2	31.65	V

Ch39 3GHz-18GHz (Average)

Frequency(MHz)	Result(dBuV/m)	ARpl(dB)	PMea(dBuV/m)	Polarity
13746.8	41.34	18.4	22.94	V
16016.4	45.66	25.1	20.56	V
16702.5	45.87	26.8	19.07	V
17390.1	47.51	28.2	19.31	V

ANNEX A.7. AC Powerline Conducted Emission

Method of Measurement: ANSI C63.10-2013-clause 6.2

1 The one EUT cable configuration and arrangement and mode of operation that produced the emission with the highest amplitude relative to the limit is selected for the final measurement, while applying the appropriate modulating signal to the EUT.

2 If the EUT is relocated from an exploratory test site to a final test site, the highest emissions shall be remaximized at the final test location before final ac power-line conducted emission measurements are performed.

3 The final test on all current-carrying conductors of all of the power cords to the equipment that comprises the EUT (but not the cords associated with other non-EUT equipment in the system) is then performed for the full frequency range for which the EUT is being tested for compliance without further variation of the EUT arrangement, cable positions, or EUT mode of operation.

4 If the EUT is comprised of equipment units that have their own separate ac power connections, e.g., floor-standing equipment with independent power cords for each shelf that are able to connect directly to the ac power network, each current-carrying conductor of one unit is measured while the other units are connected to a second (or more) LISN(s). All units shall be separately measured. If a power strip is provided by the manufacturer, to supply all of the units making up the EUT, only the conductors in the power cord of the power strip shall be measured.

If the EUT uses a detachable antenna, these measurements shall be made with a suitable dummy load connected to the antenna output terminals; otherwise, the tests shall be made with the antenna connected and, if adjustable, fully extended. When measuring the ac conducted emissions from a device that operates between 150 kHz and 30 MHz a non-detachable antenna may be replaced with a dummy load for the measurements within the fundamental emission band of the transmitter, but only for those measurements.36 Record the six highest EUT emissions relative to the limit of each of the current-carrying conductors of the power cords of the equipment that comprises the EUT over the frequency range specified by the procuring or regulatory agency. Diagram or photograph the test setup that was used. See Clause 8 for full reporting requirements.

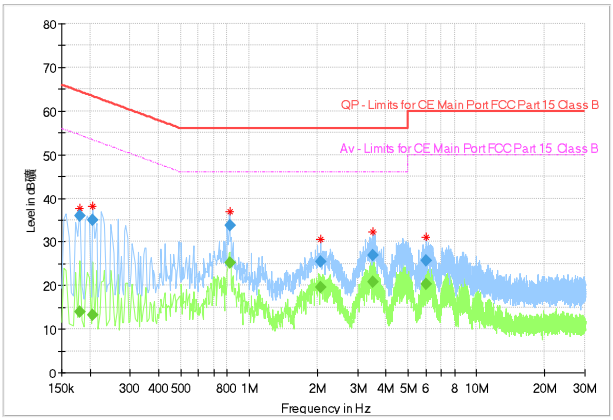
Test Condition:

Voltage（V）	Frequency（Hz）
120	60

Measurement Result and limit:

(Quasi-peak-average Limit)

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Conclusion
0.15 to 0.5	66 to 56	56 to 46	P
0.5 to 5	56	46	
5 to 30	60	50	
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.			



Frequency	QuasiPeak	Average	Limit	Margin	Meas.	Bandwidth	Line	Filter	Corr.
0.179850	36.07	---	64.49	28.43	15000.0	9.000	N	ON	9.7
0.179850	---	14.00	54.49	40.49	15000.0	9.000	N	ON	9.7
0.205969	---	13.19	53.37	40.18	15000.0	9.000	N	ON	9.7
0.205969	35.01	---	63.37	28.36	15000.0	9.000	N	ON	9.7
0.821625	---	25.31	46.00	20.69	15000.0	9.000	L1	ON	9.6
0.821625	33.65	---	56.00	22.35	15000.0	9.000	L1	ON	9.6
2.067863	25.54	---	56.00	30.46	15000.0	9.000	L1	ON	9.7
2.067863	---	19.62	46.00	26.38	15000.0	9.000	L1	ON	9.7
3.519319	---	20.75	46.00	25.26	15000.0	9.000	L1	ON	9.7
3.519319	26.98	---	56.00	29.02	15000.0	9.000	L1	ON	9.7
5.996869	---	20.25	50.00	29.75	15000.0	9.000	L1	ON	9.8
5.996869	25.81	---	60.00	34.19	15000.0	9.000	L1	ON	9.8

7. Test Equipment List

7.1. Conducted Test System

Item	Equipment Name	Type	Serial Number	Manufacturer	Cal. Date	Cal. interval
1	Vector Signal Analyzer	FSQ26	101091	R&S	2020-05-10	1 year
2	DC Power Supply	ZUP60-14	LOC-220Z006-0007	TDL-Lambda	2020-05-10	1 year
3	Software Version	Eagle V3.1 FCC BT/WIFI	V 3.1	N/A	N/A	N/A

7.2. Radiated Emission Test System

Item	Equipment Name	Type	Serial Number	Manufacturer	Cal. Date	Cal. interval
1	Universal Radio Communication Tester	CMU200	123123	R&S	2020-05-10	1 year
2	EMI Test Receiver	ESU40	100307	R&S	2020-05-10	1 year
3	TRILOG Broadband Antenna	VULB9163	VULB9163-515	Schwarzbeck	2020-02-28	2 years
4	Double- ridged Waveguide Antenna	ETS-3117	00135890	ETS	2020-02-28	2 years
5	2-Line V-Network	ENV216	101380	R&S	2020-05-10	1 year
6	Software Version	NA	V 9.15.00	R&S	N/A	N/A

7.3. Climate chamber

Item	Equipment Name	Type	Serial Number	Manufacturer	Cal. Date	Cal. interval
1	Climate chamber	UT333 BT	C191995461	UNI-T	2020-05-10	1 year

Anechoic chamber

Fully anechoic chamber by ETS.

Annex A: Accreditation Certificate

Accredited Laboratory

A2LA has accredited

Industrial Internet Innovation Center (Shanghai) Co., Ltd.

Shanghai, People's Republic of China

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets the requirements of any additional program requirements in the «field» field. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated April 2017*).

Presented this 6th day of May 2019.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3682.01
Valid to February 28, 2021
Revised December 18, 2020

For the tests to which this accreditation applies, please refer to the laboratory's Electrical«field» Scope of Accreditation.

**********END OF REPORT**********