TEST REPORT NUMBER: (8519)047-0025

TEST REPORT

TO:	Hallmark Cards, Inc.	FAX:	--
ATTN:	VINCENT MA	E-MAIL:	VINCENT.MA@HALLMARK.COM
ADDRESS	2501 McGee,MD 166, 419580 Missouri,Kansas,United States		
TEST DATE	20 FEBRUARY,2019----08 APRIL 2019		

MANUFACTURER OR SUPPLIER NAME	JETTA(CHINA) INDUSTRIES CO.,LTD.
MANUFACTURER OR SUPPLIER ADDRESS:	333 CAI XIN LU,LAN HE ZHEN NAN SHA QU,GUANGZHOU,CHINA
SAMPLE DESCRIPTION:	DISNEY TABLETOP
MODEL OR STYLE NUMBER:	QFM3339
RATED VOLTAGE:	INPUT :120V ~ 60Hz 300mA OUTPUT :5V DC 700mA
ADDITIONAL MODELS:	--
FCC ID :	SQ9QFM3339
IC :	5768B-QFM3339
The submitted sample of the above equipment has been tested according to following standard(s)	
FCC Rules and Regulations Part 15 Subpart C, ANSI C63.10:2013 RSS-210 Issue 9 August 2016, RSS-Gen Issue 5	
CONCLUSION: The submitted sample was found to COMPLY with the test requirement	

Assistant Manager

Name: Nick Lung
Date: 08 APRIL 2019

1 Summary of test results

Description of Test Item	Standard	Results
20dB Bandwidth and 99% Bandwidth	FCC Part 15: 15.215 ANSI C63.10:2013 RSS-210 Issue 9 RSS-Gen Issue 5	PASS
Frequency tolerance	FCC Part 15:15.225 ANSI C63.10:2013 RSS-210 Issue 9 RSS-Gen Issue 5	PASS
Radiated Emission	FCC Part 15: 15.209 FCC Part 15: 15.225 ANSI C63.10:2013 RSS-210 Issue 9 RSS-Gen Issue 5	PASS
Power Line Conducted Emissions	FCC Part 15: 15.207 ANSI C63.10:2013 RSS-210 Issue 9 RSS-Gen Issue 5	PASS
Antenna requirement	FCC Part 15: 15.203 ANSI C63.10:2013 RSS-210 Issue 9 RSS-Gen Issue 5	PASS

2 General test information

2.1. Description of EUT

Power supply	:	DC 5V from external AC Adapter
Operation frequency	:	13.56MHz
Antenna Type	:	Inductive loop coil antenna

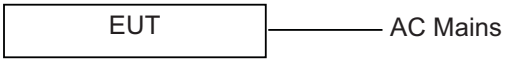
2.2. Accessories of EUT

Description of Accessories	Manufacturer	Model number	Serial No.	Other
Adapter	CHD	SJB0500700VU	N/A	Length: 1.8m, unshielded

2.3. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Serial No.	Other
N/A	N/A	N/A	N/A	N/A

2.4. Block diagram of EUT configuration for test



2.5. Deviations of test standard

No Deviation.

2.6. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

/	Normal Conditions	Extreme Conditions
Temperature range:	21-25℃	-20℃ and +50℃
Humidity range:	40-75%	N/A
Pressure range:	86-106kPa	N/A
Power supply	AC 120V	AC 102V and AC 138V
Note: The Extreme temperature range and extreme voltages are declared by the manufacturer.		

2.7. Test laboratory

Dongguan Dongdian Testing Service Co., Ltd.

Add: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808

Tel: +86-0769-38826678 http://www.dgddt.com

CNAS Accreditation No. L6451; A2LA Accreditation No. 3870.01

Designation Number: CN1182; Test Firm Registration Number: 540522

Industry Canada site registration number: 10288A-1

Result reviewed by Centre of Testing Service (Ningbo) Co, Ltd Guangzhou Branch - a Bureau Veritas Company
Address: Building A,No.65 Zhuji Highway, jishancun, Tianhe District , Guangzhou, China

2.8. Measurement uncertainty

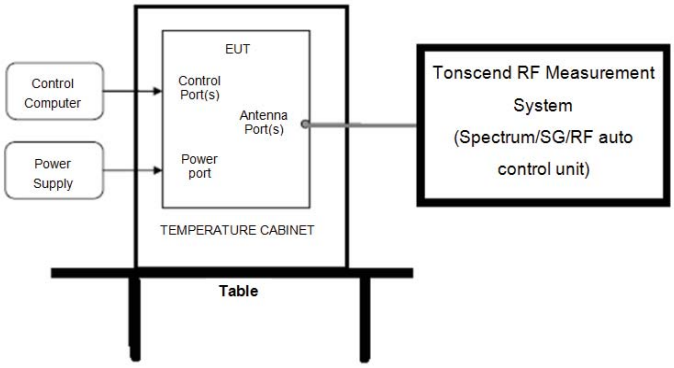
Test Item	Uncertainty
Uncertainty for Radiation Emission test (9 kHz-30 MHz)	3.32 dB (150 kHz-30 MHz)
	3.72 dB (9 kHz-150 kHz)
Uncertainty for Radiation Emission test (30 MHz-1 GHz)	4.70 dB (Antenna Polarize: V)
	4.84 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission test (1 GHz to 18 GHz)	4.10 dB (1-6 GHz)
	4.40 dB (6 GHz-18 GHz)
Bandwidth	1.1%
Uncertainty for radio frequency (RBW<20 kHz)	3×10^{-8}
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3 Equipment used during test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
RF Connected Test (Tonscend RF Measurement System)					
Spectrum analyzer	R&S	FSU26	200071	Oct. 12, 2018	1 Year
Wideband Radio Communication tester	R&S	CMW500	117491	Jun. 29, 2018	1 Year
Vector Signal Generator	Agilent	E8267D	US49060192	Oct. 12, 2018	1 Year
Vector Signal Generator	Agilent	N5182A	MY48180737	Jun. 29, 2018	1 Year
Power Sensor	Agilent	U2021XA	MY55150010	Oct. 21, 2018	1 Year
Power Sensor	Agilent	U2021XA	MY55150011	Oct. 23, 2018	1 Year
DC Power Source	MATRIS	MPS-3005L-3	D813058W	Aug. 18, 2018	1 Year
Attenuator	Mini-Circuits	BW-S10W2	101109	Aug. 18, 2018	1 Year
RF Cable	Micable	C10-01-01-1	100309	Oct. 21, 2018	1 Year
Temp&Humi Programmable	ZHIXIANG	ZXGDJS-150L	ZX170110-A	Oct. 21, 2018	1 Year
Test Software	JS Tonscend	JS1120-3	Ver.2.7	N/A	N/A
Radiated Emission Test Chamber 1#					
EMI Test Receiver	R&S	ESU8	100316	Oct. 12, 2018	1 Year
Spectrum analyzer	Agilent	E4447A	MY50180031	Jun. 29, 2018	1 Year
Trilog Broadband Antenna	Schwarzbeck	VULB9163	9163-462	Nov. 09, 2018	1 Year
Active Loop antenna	Schwarzbeck	FMZB-1519	1519-038	Oct. 20, 2018	1 Year
Double Ridged Horn Antenna	R&S	HF907	100276	Nov. 16, 2018	1 Year
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	790	Oct. 25, 2018	1 Year
Pre-amplifier	A.H.	PAM-0118	360	Oct. 12, 2018	1 Year
Pre-amplifier	TERA-MW	TRLA-0040G35	101303	Oct. 12, 2018	1 Year
RF Cable	HUBSER	CP-X2+ CP-X1	W11.03+ W12.02	Oct. 21, 2018	1 Year
RF Cable	N/A	SMAJ-SMAJ-1M+ 11M	17070133+17070131	Nov. 08, 2018	1 Year
MI Cable	HUBSER	C10-01-01-1M	1091629	Oct. 21, 2018	1 Year
Test software	Audix	E3	V 6.11111b	N/A	N/A
Power Line Conducted Emissions Test					
EMI Test Receiver	R&S	ESU8	100316	Oct. 21, 2018	1 Year
LISN 1	R&S	ENV216	101109	Oct. 21, 2018	1 Year
LISN 2	R&S	ESH2-Z5	100309	Oct. 21, 2018	1 Year
Pulse Limiter	R&S	ESH3-Z2	101242	Oct. 21, 2018	1 Year
CE Cable 1	HUBSER	N/A	W10.01	Oct. 21, 2018	1 Year
Test software	Audix	E3	V 6.11111b	N/A	N/A

4 20dB Bandwidth and 99% Bandwidth

4.1. Block diagram of test setup



4.2. Limits

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in § 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

4.3. Test Procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

(2) Set the spectrum analyzer as follows:

RBW:	100Hz
VBW:	300Hz
Detector Mode:	Peak
Sweep time:	auto
Trace mode	Max hold

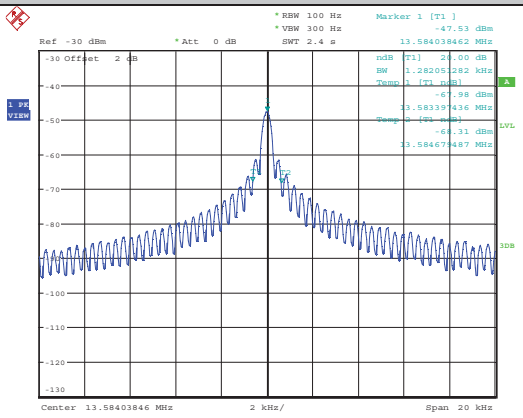
(3) Allow the trace to stabilize, measure the 20dB and 99% bandwidth of signal.

4.4. Test Result

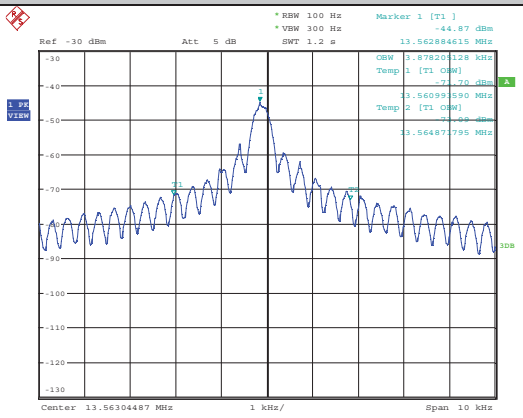
Mode	Freq. (MHz)	20dB bandwidth Result (kHz)	99% bandwidth Result (kHz)	Conclusion
ASK	13.56	1.282	3.878	PASS

4.5. Original test data

20dB bandwidth:

Graphs	
ASK	

99% bandwidth:

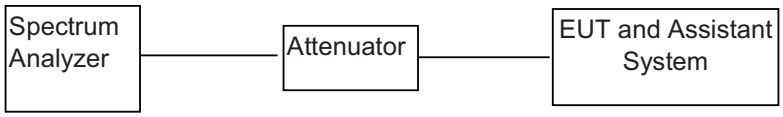
Graphs	
ASK	

5 Frequency Tolerance

5.1. Limit

As contained in § 15.225 the frequency tolerance of the carrier signal shall be maintained within ±0.01% of the operating frequency over a temperature variation of −20 degrees to +50 degrees C at normal supply Voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

5.2. Block diagram of test setup



5.3. Test Procedure

(1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

Centre Frequency: The centre frequency of the channel under test.

Resolution BW: 10 kHz.

Video BW: 10 kHz.

Span: 1MHz.

Detector: Peak.

Trace Mode: Max Hold.

(2) When the trace is complete, find the peak value of the power envelope and record the frequency.

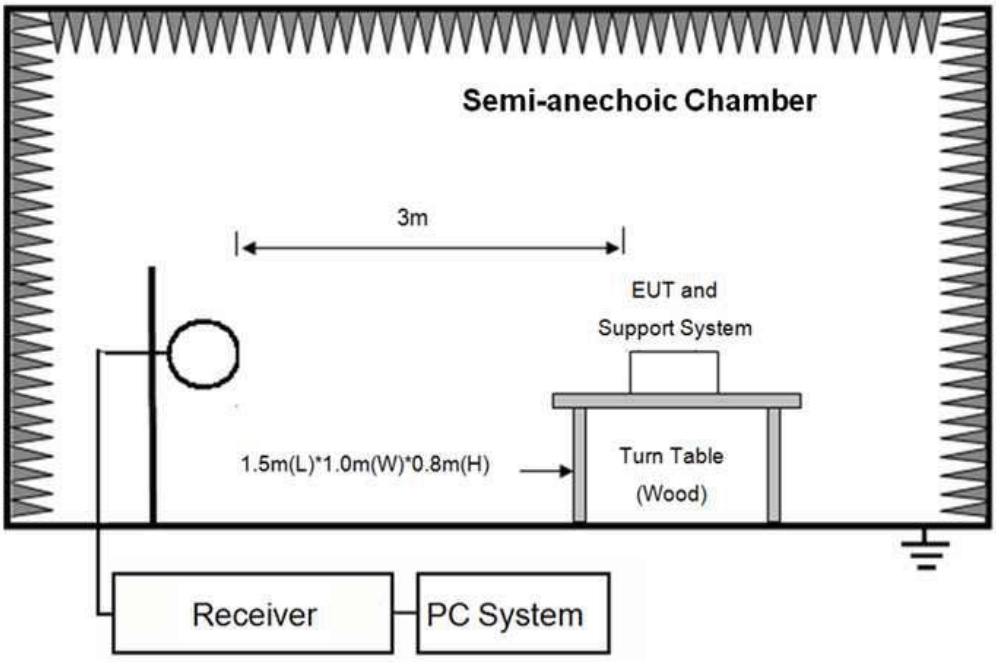
5.4. Test result

Mode	Condition		Result			Limit
	Temperature (℃)	Voltage (V)	Measured (MHz)	Tolerance (kHz)	Tolerance (ppm)	ppm
Carrier Tx Mode	NT	NV	13.56042	0.42	30.97	100
	-20	NV	13.56044	0.44	32.45	100
	+50	NV	13.56046	0.46	33.92	100
	NT	102	13.56043	0.43	31.71	100
	NT	138	13.56048	0.48	35.40	100
Note: NT:22℃, NV:AC 120V						

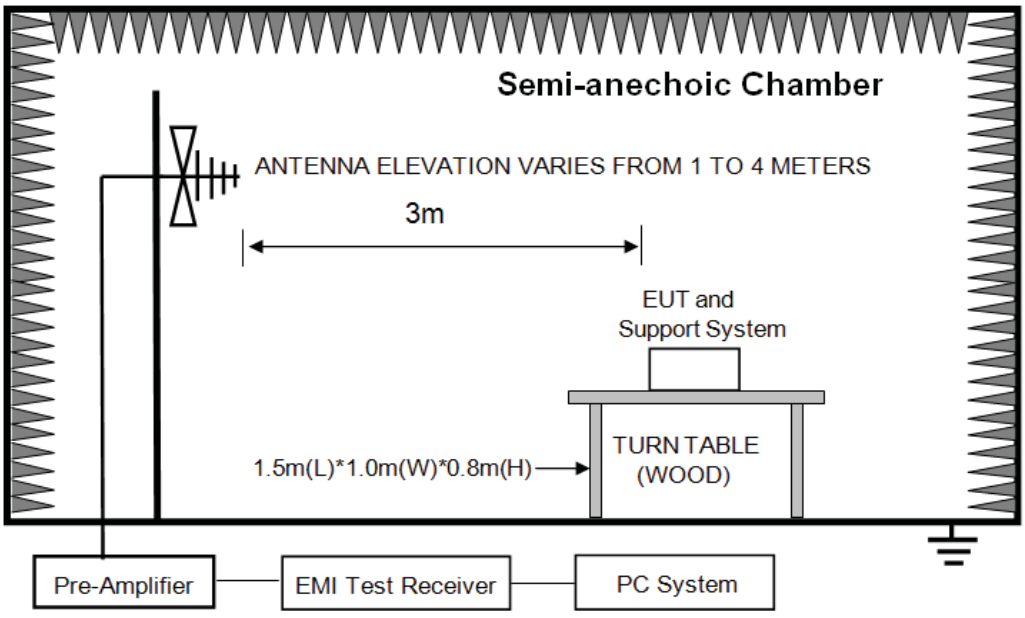
6 Radiated emission

6.1. Block diagram of test setup

In 3m Anechoic Chamber Test Setup Diagram for 9kHz~30MHz



In 3m Anechoic Chamber Test Setup Diagram for 30MHz~1GHz



6.2. Limit

Operation within the band 13.110-14.010 MHz as contained in §15.225:

(a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.

(b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.

(c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

(d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in §15.209.

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
0.009 ~ 0.490	300	2400/F(kHz)	67.6-20log(F)
0.490 ~ 1.705	30	24000/F(kHz)	87.6-20log(F)
1.705 ~ 13.110	30	30	29.54
13.110 ~ 13.410	30	106	40.51
13.410~ 13.553	30	334	50.47
13.553~13.567	30	15848	84.00
13.567~13.710	30	334	50.47
13.710~14.010	30	106	40.51
14.010~30	30	30	29.54
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0

Note: (1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000MHz. Radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30MHz, measurement may be performed at a distance closer than that specified, and the limit at closer measurement distance can be extrapolated by below formula:

$Limit_{3m}(dBuV/m) = Limit_{300m}(dBuV/m) + 40Log(300m/3m) = Limit_{300m}(dBuV/m) + 80$
$Limit_{3m}(dBuV/m) = Limit_{30m}(dBuV/m) + 40Log(30m/3m) = Limit_{30m}(dBuV/m) + 40$

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT dB(μV)/m
0.009 ~ 0.490	3	147.6-20log(F)
0.490 ~ 1.705	3	127.6-20log(F)
1.705 ~ 13.110	3	69.54
13.110 ~ 13.410	3	80.51
13.410 ~ 13.553	3	90.47
13.553 ~ 13.567	3	124.00
13.567 ~ 13.710	3	90.47
13.710 ~ 14.010	3	80.51
14.010 ~ 30	3	69.54
30 ~ 88	3	40.00
88 ~ 216	3	43.50
216 ~ 960	3	46.00
960 ~ 1000	3	54.00

6.3. Test Procedure

(1) EUT was placed on a non-metallic table, 100 cm above the ground plane inside a semi-anechoic chamber.

(2) Test antenna was located from the EUT on an adjustable mast, and the antenna used as below table.

Test frequency range	Test antenna used	Test antenna distance
9kHz-30MHz	Active Loop antenna	3m
30MHz-1GHz	Trilog Broadband Antenna	3m

According ANSI C63.10:2013 clause 6.4.4.2 and 6,5.3, for measurements below 30 MHz, the loop antenna was positioned with its plane vertical from the EUT and rotated about its vertical axis for maximum response at each azimuth position around the EUT. And the loop antenna also be positioned with its plane horizontal at the specified distance from the EUT. The center of the loop is 1 m above the ground. for measurement above 30MHz, the Trilog Broadband Antenna or Horn Antenna was located 3m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

(3) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9kHz to 1GHz:

(a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1m to 4m(Except loop antenna, it's fixed 1m above ground.)(b) Change work frequency or channel of device if practicable.(c) Change modulation type of device if practicable.(d) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions. Spectrum frequency from 9KHz to 1GHz (tenth harmonic of fundamental frequency) was investigated.(4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10:2013 on Radiated Emission test.(5) The emissions from 9kHz to 1GHz were measured based on CISPR QP detector except for the frequency bands 9-90kHz, 110-490kHz, for emissions from 9kHz-90kHz,110kHz-490kHz and above 1GHz were measured based on average detector, for emissions above 1GHz, peak emissions also be measured and need comply with Peak limit.(6) The emissions from 9KHz to 1GHz, QP or average values were measured with EMI receiver with below RBW.

Frequency band	RBW
9kHz-150kHz	200Hz
150kHz-30MHz	9kHz
30MHz-1GHz	120kHz

6.4. Test result: PASS. (SEE BELOW DETAILED TEST RESULT) BELOW 30MHZ:

Frequency (MHz)	Result **@3m** (dBuV/m)	Limit **@3m** (dBuV/m)	Detector	Conclusion
0.040	63.23	135.56	Peak	PASS
0.040	55.56	115.56	Average	PASS
0.080	55.79	129.54	Peak	PASS
0.080	48.65	109.54	Average	PASS
4.690	48.13	69.54	QP	PASS
13.110	45.44	69.54	QP	PASS
13.410	43.29	80.50	QP	PASS
13.553	53.03	90.50	QP	PASS
13.560	53.18	124.00	QP	PASS
13.567	53.00	90.50	QP	PASS
13.710	43.60	80.50	QP	PASS
14.010	43.43	69.54	QP	PASS
24.660	46.75	69.54	QP	PASS

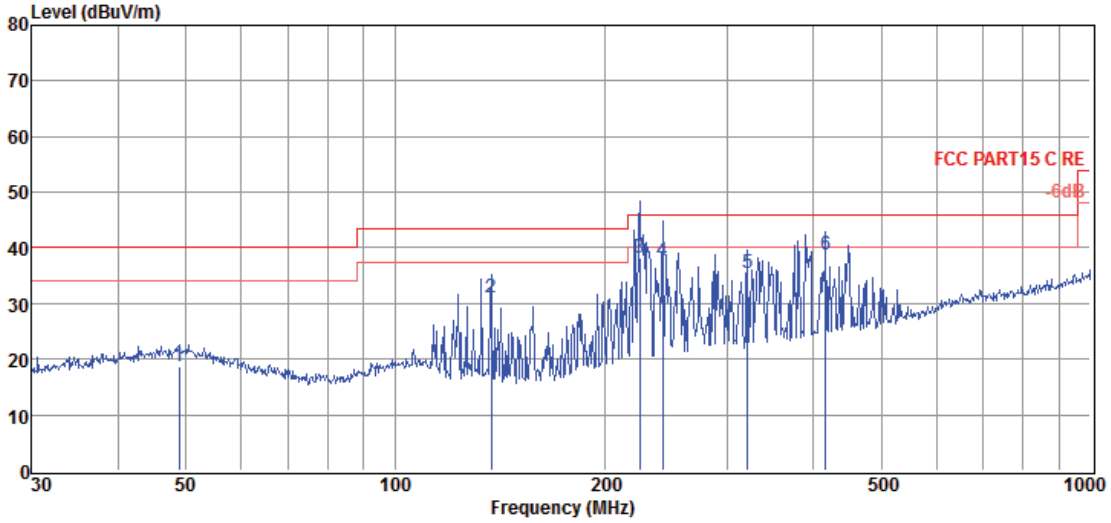
TEST REPORT NUMBER: (8519)047-0025

Above 30MHz:

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 1#	D:\2019 RE1# Report Data\BV Report\85190470025 13.58MHz\RE.EM6	
Test Date	: 2019-03-20	**Tested By**	: Sunny
EUT	: DISNEY TABLETOP	**Model Number**	: QFM3339
Power Supply	: AC 120V/60Hz	**Test Mode**	: Tx mode
Condition	: Temp:24.5'C, Humi:55%, Press:100.1kPa	**Antenna/Distance**	: 2018 VULB 9163 1#/3m/HORIZONTAL
Memo	:		

Data: 15



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	48.84	0.31	14.47	3.86	18.64	40.00	-21.36	QP	HORIZONTAL
2	137.42	17.83	8.90	4.41	31.14	43.50	-12.36	QP	HORIZONTAL
3	224.52	21.30	12.14	4.90	38.34	46.00	-7.66	QP	HORIZONTAL
4	242.53	20.11	12.64	4.97	37.72	46.00	-8.28	QP	HORIZONTAL
5	321.06	15.95	14.38	5.26	35.59	46.00	-10.41	QP	HORIZONTAL
6	416.18	17.36	15.87	5.57	38.80	46.00	-7.20	QP	HORIZONTAL

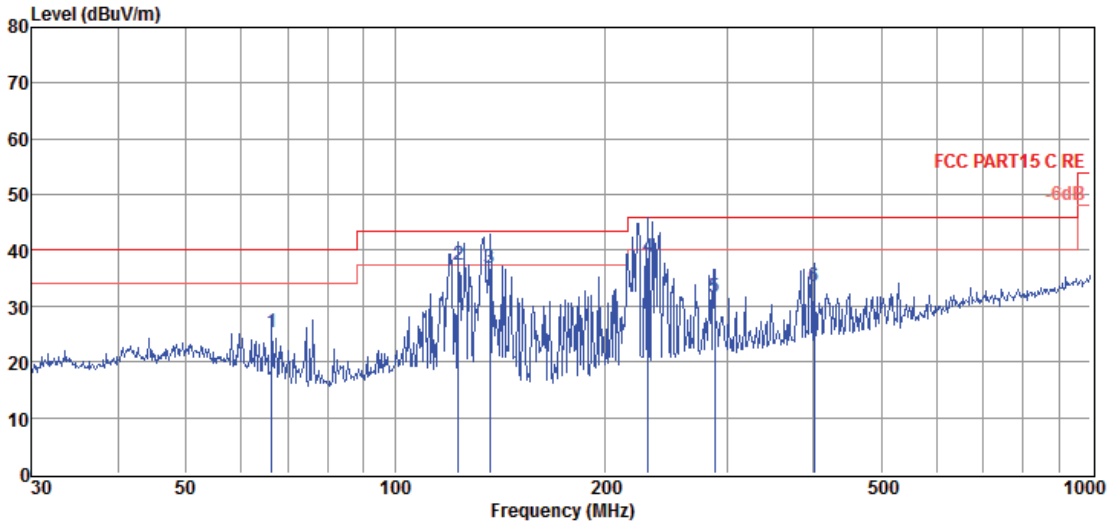
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TEST REPORT NUMBER: (8519)047-0025

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 1#	D:\2019 RE1# Report Data\BV Report\85190470025 13.58MHz\RE.EM6	
Test Date	: 2019-03-20	**Tested By**	: Sunny
EUT	: DISNEY TABLETOP	**Model Number**	: QFM3339
Power Supply	: AC 120V/60Hz	**Test Mode**	: Tx mode
Condition	: Temp:24.5'C, Humi:55%, Press:100.1kPa	**Antenna/Distance**	: 2018 VULB 9163 1#/3m/VERTICAL
Memo	:		

Data: 16

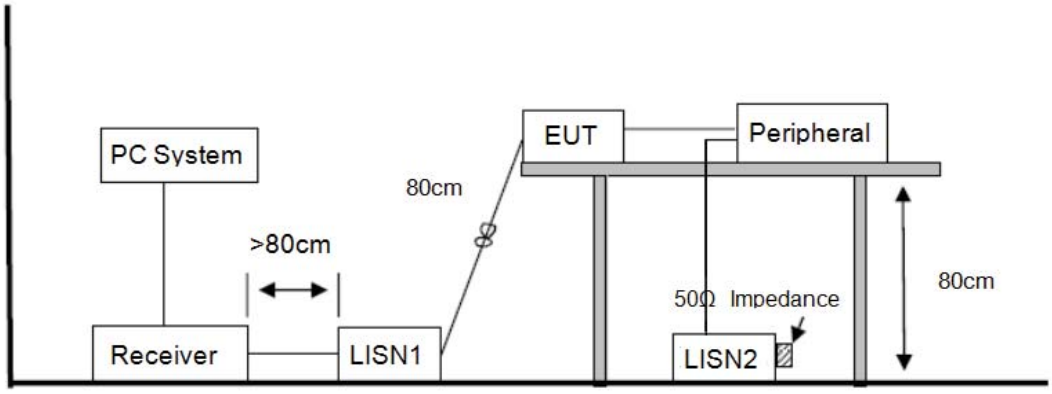


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	66.50	11.23	10.13	4.00	25.36	40.00	-14.64	QP	VERTICAL
2	123.27	23.56	9.63	4.32	37.51	43.50	-5.99	QP	VERTICAL
3	136.94	23.50	8.94	4.41	36.85	43.50	-6.65	QP	VERTICAL
4	230.91	21.58	12.32	4.92	38.82	46.00	-7.18	QP	VERTICAL
5	287.99	12.65	13.74	5.14	31.53	46.00	-14.47	QP	VERTICAL
6	400.43	12.47	15.61	5.51	33.59	46.00	-12.41	QP	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

7 Power Line Conducted Emission

7.1. Block diagram of test setup



7.2. Power Line Conducted Emission Limits

Frequency	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

7.3. Test Procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

Configuration EUT to simulate typical usage as described in clause 2.4 and test equipment as described in clause 10.2 of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

7.4. Test Result

PASS. (See below detailed test result)

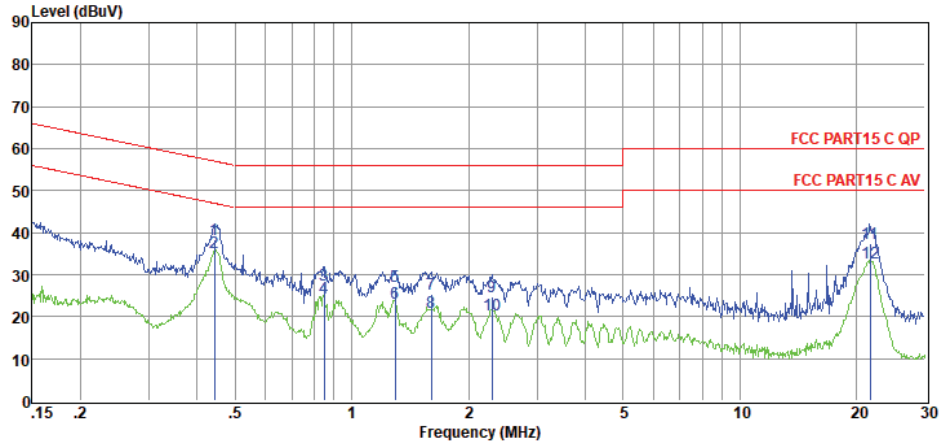
Note1: All emissions not reported below are too low against the prescribed limits.
Note2: "-----" means Peak detection; "-----" means Average detection.
Note3: Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/60Hz, recorded worse case (AC 120V/60Hz).

TEST REPORT NUMBER: (8519)047-0025

TR-4-E-010 Conducted Emission Test Result

Test Site	: DDT 1# Shield Room	D:\2019 CE report data\BV Report\85190470025\CE.EM6	
Test Date	: 2019-02-25	**Tested By**	: Sunny
EUT	: DISNEY TABLETOP	**Model Number**	: QFM3339
Power Supply	: AC 120V/60Hz	**Test Mode**	: Tx mode
Condition	: Temp:24.5'C, Humi:55%, Press:100.1KPa	**LISN**	: 2018 ENV216/NEUTRAL

Data: 6



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	LISN Factor (dB)	Cable Loss (dB)	Pulse Limiter Factor (dB)	Result Level (dBµV)	Limit Line (dBµV)	Over Limit (dB)	Detector	Phase
1	0.44	18.92	9.64	0.02	9.86	38.44	57.01	-18.57	QP	NEUTRAL
2	0.44	15.78	9.64	0.02	9.86	35.30	47.01	-11.71	Average	NEUTRAL
3	0.85	8.06	9.64	0.07	9.87	27.64	56.00	-28.36	QP	NEUTRAL
4	0.85	4.81	9.64	0.07	9.87	24.39	46.00	-21.61	Average	NEUTRAL
5	1.30	7.72	9.65	0.08	9.87	27.32	56.00	-28.68	QP	NEUTRAL
6	1.30	3.53	9.65	0.08	9.87	23.13	46.00	-22.87	Average	NEUTRAL
7	1.60	5.90	9.66	0.07	9.87	25.50	56.00	-30.50	QP	NEUTRAL
8	1.60	1.41	9.66	0.07	9.87	21.01	46.00	-24.99	Average	NEUTRAL
9	2.30	5.08	9.68	0.05	9.87	24.68	56.00	-31.32	QP	NEUTRAL
10	2.30	0.78	9.68	0.05	9.87	20.38	46.00	-25.62	Average	NEUTRAL
11	21.63	17.46	10.02	0.08	9.96	37.52	60.00	-22.48	QP	NEUTRAL
12	21.63	12.58	10.02	0.08	9.96	32.64	50.00	-17.36	Average	NEUTRAL

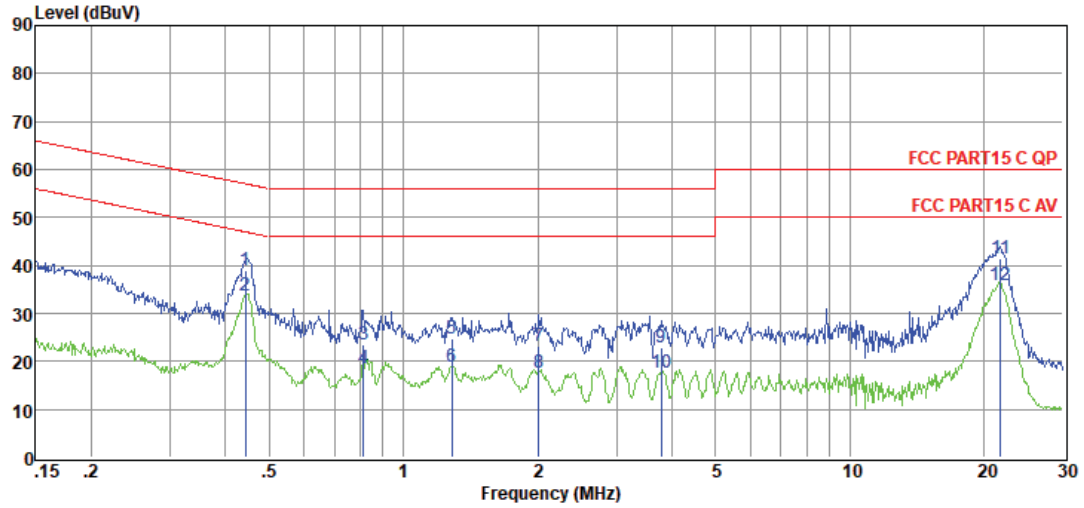
Note: 1. Result Level = Read Level +LISN Factor + Pulse Limiter Factor + Cable loss.2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

TEST REPORT NUMBER: (8519)047-0025

TR-4-E-010 Conducted Emission Test Result

Test Site	: DDT 1# Shield Room	D:\2019 CE report data\BV Report\85190470025\CE.EM6	
Test Date	: 2019-02-25	**Tested By**	: Sunny
EUT	: DISNEY TABLETOP	**Model Number**	: QFM3339
Power Supply	: AC 120V/60Hz	**Test Mode**	: Tx mode
Condition	: Temp:24.5'C, Humi:55%, Press:100.1KPa	**LISN**	: 2018 ENV216/LINE
Memo	:		

Data: 8



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	LISN Factor (dB)	Cable Loss (dB)	Pulse Limiter Factor (dB)	Result Level (dBµV)	Limit Line (dBµV)	Over Limit (dB)	Detector	Phase
1	0.44	19.50	9.64	0.02	9.86	39.02	57.02	-18.00	QP	LINE
2	0.44	14.11	9.64	0.02	9.86	33.63	47.02	-13.39	Average	LINE
3	0.81	3.98	9.64	0.06	9.86	23.54	56.00	-32.46	QP	LINE
4	0.81	-1.05	9.64	0.06	9.86	18.51	46.00	-27.49	Average	LINE
5	1.28	5.06	9.64	0.08	9.87	24.65	56.00	-31.35	QP	LINE
6	1.28	-0.64	9.64	0.08	9.87	18.95	46.00	-27.05	Average	LINE
7	2.01	3.56	9.65	0.06	9.87	23.14	56.00	-32.86	QP	LINE
8	2.01	-1.89	9.65	0.06	9.87	17.69	46.00	-28.31	Average	LINE
9	3.78	3.18	9.68	0.06	9.87	22.79	56.00	-33.21	QP	LINE
10	3.78	-2.05	9.68	0.06	9.87	17.56	46.00	-28.44	Average	LINE
11	21.74	21.43	9.95	0.08	9.96	41.42	60.00	-18.58	QP	LINE
12	21.74	15.91	9.95	0.08	9.96	35.90	50.00	-14.10	Average	LINE

Note: 1. Result Level = Read Level +LISN Factor + Pulse Limiter Factor + Cable loss.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

8 Antenna Requirements

For intentional device, according to FCC 47 CFR Section 15.203, An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.