

FCC Certification Test Report

Report No.: FC190227C20

Test Model: F-03L

FCC ID: 2AQYEFMP168

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**FCC Registration /
Designation Number:** 328930 / TW1050



Certificate #4327.01



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Release Control Record

Issue No.	Description	Date Issued
FC190227C20	Original Release	Apr. 08, 2019

2 Summary of Test Results

47 CFR FCC Part 15, Subpart B / ICES-003:2016 Issue 6, Class B

ANSI C63.4:2014

FCC Clause	ICES-003 Clause	Test Item	Result/Remarks	Verdict
15.107	6.1	AC Power Line Conducted Emissions	Minimum passing Class B margin is -8.82 dB at 0.15391 MHz	Pass
15.109	6.2.1	Radiated Emissions up to 1 GHz	Minimum passing Class B margin is -6.13 dB at 919.97 MHz	Pass
	6.2.2	Radiated Emissions above 1 GHz	Minimum passing Class B margin is -12.70 dB at 8058.30 MHz	Pass

Note:

1. There is no deviation to the applied test methods and requirements covered by the scope of this report.
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT:

Measurement	Frequency	Expanded Uncertainty (k=2) (\pm)
Conducted Emissions at mains ports	150 kHz ~ 30 MHz	2.44 dB
Radiated Emissions up to 1 GHz	30 MHz ~ 1 GHz	4.70 dB
Radiated Emissions above 1 GHz	Above 1 GHz	2.26 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Feature Phone
Brand	FUJITSU
Test Model	F-03L
FCC ID	2AQYEFMP168
Status of EUT	Engineering Sample
Operating Software	N/A
Power Supply Rating	3.8 Vdc (Battery) 5 Vdc (Adapter or host equipment)
Accessory Device	Refer to Note as below
Data Cable Supplied	N/A

Note:

1. The EUT contains following accessory devices.

Product	Brand	Model	Description
Adapter	FUJITSU LIMITED	FMV-AC346	I/P: 100-240 Vac, 50/60 Hz, 0.3 A O/P: 5 Vdc, 2 A
Battery	FUJITSU LIMITED	CA54310-0076	3.8 Vdc, 1680 mAh
Cradle	FUJITSU LIMITED	F49	O/P: 5 Vdc, 1.5 A

3.2 Features of EUT

The tests reported herein were performed according to the method specified by FUJITSU CONNECTED TECHNOLOGIES Ltd., for detailed feature description, please refer to the manufacturer's specifications or user's manual.

3.3 Operating Modes of EUT and Determination of Worst Case Operating Mode

Test modes are presented in the report as below.

Mode	Test Condition
Conducted Emission	
1	PCS1900 Link + BT Link + WLAN Link + GPS Rx + USB Cable + Adapter
2	WCDMA850 Link + BT Link + WLAN Link + Camera + USB Cable + USB Link
3	LTE Band 5 Link + BT Link + WLAN Link + MPEG4+ USB Cable + Adapter + Stand + Audio Jack + Earphone
4	GSM850 Link (Low Channel) + USB Cable + Adapter
5	GSM850 Link (Mid Channel) + USB Cable + Adapter
6	GSM850 Link (High Channel) + USB Cable + Adapter
Radiated Emission	
1	PCS1900 Link + BT Link + WLAN Link + GPS Rx + USB Cable + Adapter
2	WCDMA850 Link + BT Link + WLAN Link + Camera + USB Cable + USB Link
3	LTE Band 5 Link + BT Link + WLAN Link + MPEG4+ USB Cable + Adapter + Stand + Audio Jack + Earphone
4	GSM850 Idle + BT Link + WLAN Link + NFC Link (Stand alone)
5	GSM850 Link (Low Channel) + USB Cable + Adapter
6	GSM850 Link (Mid Channel) + USB Cable + Adapter
7	GSM850 Link (High Channel) + USB Cable + Adapter
8	WCDMA850 Link + BT Link + WLAN Link + Camera + USB Cable + USB Link (Y Axis)
9	WCDMA850 Link + BT Link + WLAN Link + Camera + USB Cable + USB Link (Z Axis)

Remark:

1. For conducted emission test, test mode 2 was the worst case and only this mode was presented in the report.
2. For radiated emission test, test mode 2 was the worst case and only this mode was presented in the report.

3.4 Test Program Used and Operation Descriptions

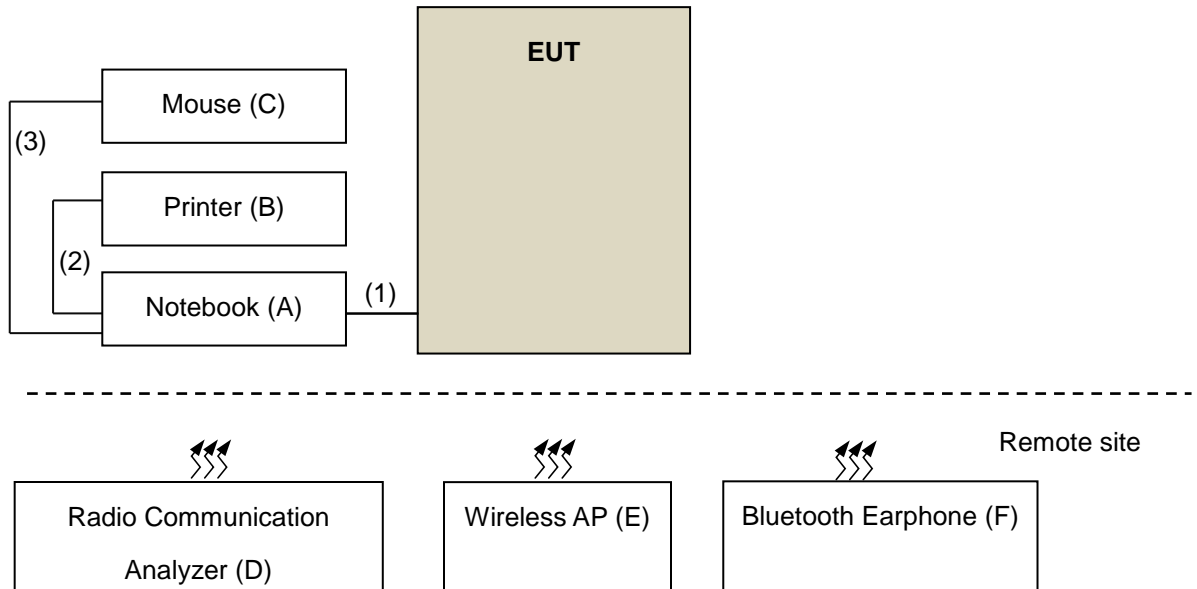
- a. The EUT was charged from NB when the mode was tested.
- b. The EUT linked with Bluetooth earphone in idle mode.
- c. The NFC function was turned on.
- d. The EUT played camera and sent audio signal to the earphone.
- e. The EUT communicated data with the Radio Communication Analyzer and Wireless AP, which acted as communication partners.

3.5 Primary Clock Frequencies of Internal Source

The highest frequency generated or used within the EUT or on which the EUT operates or tunes is 2400 MHz, provided by FUJITSU CONNECTED TECHNOLOGIES Ltd., for detailed internal source, please refer to the manufacturer's specifications.

4 Configuration and Connections with EUT

4.1 Connection Diagram of EUT and Peripheral Devices



4.2 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Notebook	DELL	E6440	6QLNM32	N/A	--
B.	Printer	EPSON	T22	MEEZ070220	N/A	--
C.	Mouse	DELL	MOCZUL	CN-049TWY-PRC00-79E-02FY	N/A	--
D.	Radio Communication Analyzer	Anritsu	MT8820C	6201010284	N/A	--
E.	Wireless N Dual band Router	D-LINK	DIR-815	PVK21B5000399	KA21R815A1	--
F.	BLUETOOTH EARPHONE	ELECOM	LBT-MPHS400	N/A	N/A	--

Note:

1. All power cords of the above support units are non-shielded (1.8m).
2. Items A - D-E acted as communication partners to transfer data.

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	Micro USB Cable	1	1	Y	0	--
2.	USB Cable	1	1.8	Y	0	--
3.	USB Cable	1	1.8	Y	0	--

Note: The core(s) is(are) originally attached to the cable(s).

5 Conducted Emissions at Mains Ports

5.1 Limits

Frequency (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

Notes: 1. The lower limit shall apply at the transition frequencies.
 2. The limit decreases linearly with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

5.2 Test Instruments

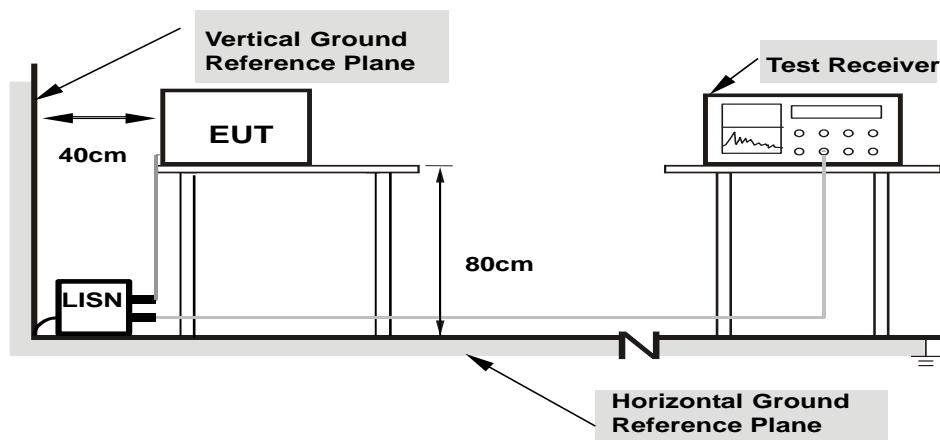
Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCS 30	100288	Jan. 03, 2019	Jan. 02, 2020
RF signal cable Woken	5D-FB	Cable-cond1-01	Sep. 05, 2018	Sep. 04, 2019
LISN ROHDE & SCHWARZ (EUT)	ENV216	101826	Feb. 21, 2019	Feb. 20, 2020
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Aug. 19, 2018	Aug. 18, 2019
Software ADT	BV ADT_Cond_ V7.3.7.4	NA	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The test was performed in HwaYa Shielded Room 1.
 3. The VCCI Site Registration No. is C-2040.

5.3 Test Arrangement

- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 Ohm/ 50 uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The test results of conducted emissions at mains ports are recorded of six worst margins for quasi-peak (mandatory) [and average (if necessary)] values against the limits at frequencies of interest unless the margin is 20 dB or greater.

Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz – 30 MHz.



- Note:**
- Support units were connected to second LISN.
 - Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

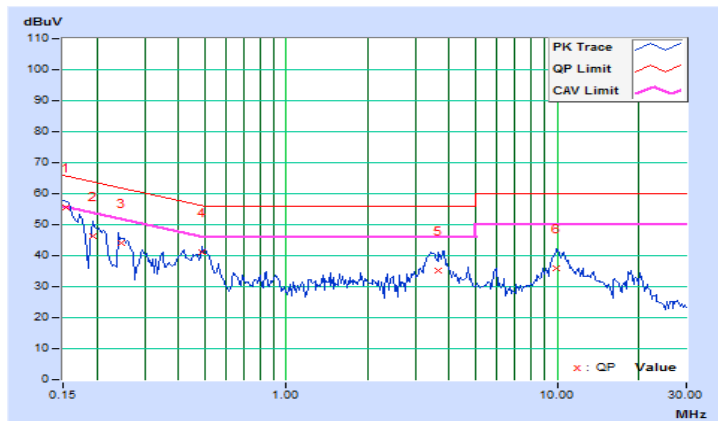
5.4 Test Results

Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	23°C, 69%RH
Tested by	Rolan Zheng	Test Date	2019/3/8
Test Mode	Mode 2		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	9.69	45.91	34.37	55.60	44.06	65.79	55.79	-10.19	-11.73
2	0.19297	9.68	36.67	22.36	46.35	32.04	63.91	53.91	-17.56	-21.87
3	0.24620	9.68	34.55	20.35	44.23	30.03	61.88	51.88	-17.65	-21.85
4	0.48984	9.68	31.42	16.94	41.10	26.62	56.17	46.17	-15.07	-19.55
5	3.65234	9.74	25.39	14.79	35.13	24.53	56.00	46.00	-20.87	-21.47
6	9.99219	9.87	26.21	21.17	36.08	31.04	60.00	50.00	-23.92	-18.96

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

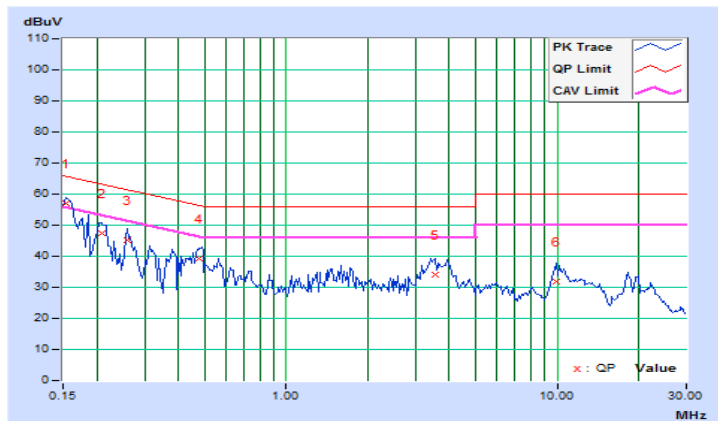


Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	23°C, 69%RH
Tested by	Rolan Zheng	Test Date	2019/3/8
Test Mode	Mode 2		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	9.66	47.31	36.35	56.97	46.01	65.79	55.79	-8.82	-9.78
2	0.20859	9.66	37.93	26.23	47.59	35.89	63.26	53.26	-15.67	-17.37
3	0.25938	9.66	35.49	23.72	45.15	33.38	61.45	51.45	-16.30	-18.07
4	0.47422	9.65	29.79	19.48	39.44	29.13	56.44	46.44	-17.00	-17.31
5	3.53516	9.71	24.32	14.33	34.03	24.04	56.00	46.00	-21.97	-21.96
6	9.92188	9.85	22.15	16.34	32.00	26.19	60.00	50.00	-28.00	-23.81

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



6 Radiated Emissions up to 1 GHz

6.1 Limits

Emissions radiated outside of the specified bands, shall be according to the general radiated limits as following:

Radiated Emissions Limits at 10 meters (dB μ V/m)				
Frequencies (MHz)	FCC 15B / ICES-003, Class A	FCC 15B / ICES-003, Class B	CISPR 22, Class A	CISPR 22, Class B
30-88	39	29.5	40	30
88-216	43.5	33.1		
216-230	46.4	35.6		
230-960			47	37
960-1000	49.5	43.5		

Radiated Emissions Limits at 3 meters (dB μ V/m)				
Frequencies (MHz)	FCC 15B / ICES-003, Class A	FCC 15B / ICES-003, Class B	CISPR 22, Class A	CISPR 22, Class B
30-88	49.5	40	50.5	40.5
88-216	54	43.5		
216-230	56.9	46		
230-960			57.5	47.5
960-1000	60	54		

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dB μ V/m) = 20 log Emission level (μ V/m).
3. QP detector shall be applied if not specified.

6.2 Test Instruments

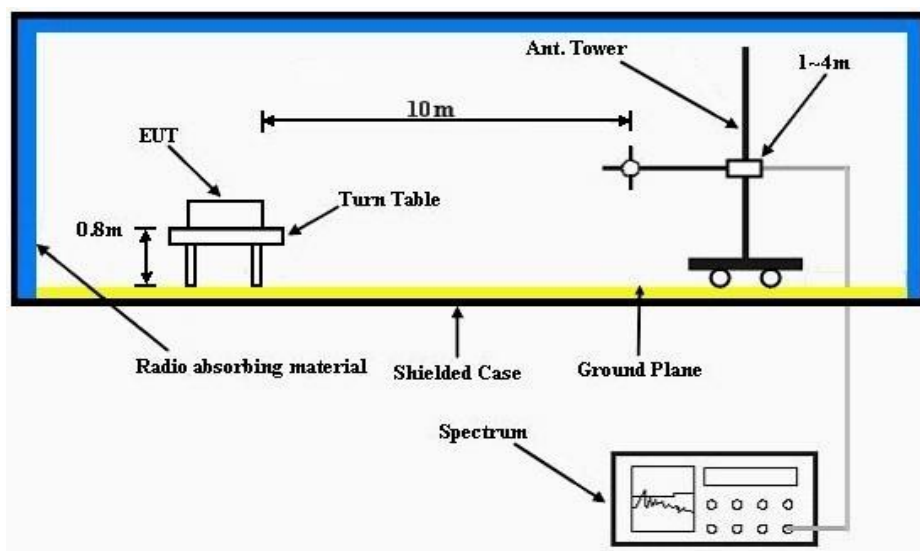
Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ (V)	ESR	101240	Oct. 30, 2018	Oct. 29, 2019
Test Receiver ROHDE & SCHWARZ (H)	ESR3	102412	Feb. 14, 2019	Feb. 13, 2020
BILOG Antenna SCHWARZBECK (V)	VULB9168	9168-148	Nov. 20, 2018	Nov. 19, 2019
BILOG Antenna SCHWARZBECK (H)	VULB9168	9168-156	Nov. 20, 2018	Nov. 19, 2019
Preamplifier Sonoma (V)	310N	352924	Jul. 12, 2018	Jul. 11, 2019
Preamplifier Sonoma (H)	310N	352923	Jul. 12, 2018	Jul. 11, 2019
RF signal cable (with 5dB PAD) Times (V)	LMR-600 (18M) +LMR-400 (7M)	CABLE-CH1 (VER) -01	Oct. 03, 2018	Oct. 02, 2019
RF signal cable (with 5dB PAD) Times (H)	LMR-600 (11.8M) +LMR-400 (7M)	CABLE-CH1 (HOR) -01	Oct. 03, 2018	Oct. 02, 2019
Software BV ADT	BV ADT_Radiated_ V8.7.08	NA	NA	NA
Antenna Tower (V)	MFA-440	9707	NA	NA
Antenna Tower (H)	MFA-440	970705	NA	NA
Turn Table	DS430	50303	NA	NA
Controller (V)	MF7802	074	NA	NA
Controller (H)	MF7802	08093	NA	NA

- NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 1.
3. The IC Site Registration No. is IC 7450F-1.
4. The VCCI Site Registration No. is R-1893.

6.3 Test Arrangement

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited test facility. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for quasi-peak detection (QP) at frequency below 1 GHz.



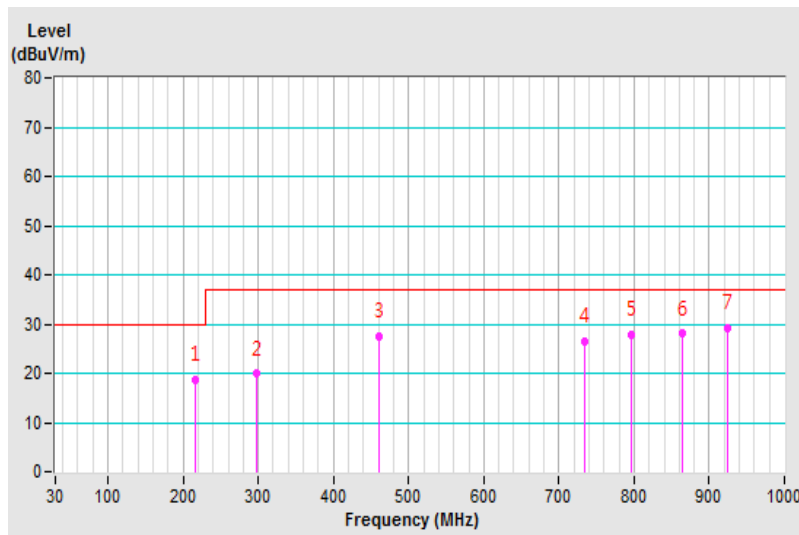
6.4 Test Results

Frequency Range	30MHz ~ 1GHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP), 120kHz
Tested by	James Chang	Environmental Conditions	25°C, 65%RH
Test Mode	Mode 2	Test Date	2019/3/27

Antenna Polarity & Test Distance : Horizontal at 10 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	216.01	18.73 QP	30.00	-11.27	3.00 H	116	34.36	-15.63
2	296.96	19.86 QP	37.00	-17.14	3.00 H	237	32.69	-12.83
3	460.02	27.38 QP	37.00	-9.62	2.00 H	163	36.53	-9.15
4	734.40	26.49 QP	37.00	-10.51	3.50 H	213	29.29	-2.80
5	796.10	27.92 QP	37.00	-9.08	2.00 H	216	29.28	-1.36
6	864.73	27.97 QP	37.00	-9.03	1.00 H	34	28.38	-0.41
7	925.26	29.19 QP	37.00	-7.81	1.00 H	194	28.05	1.14

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value

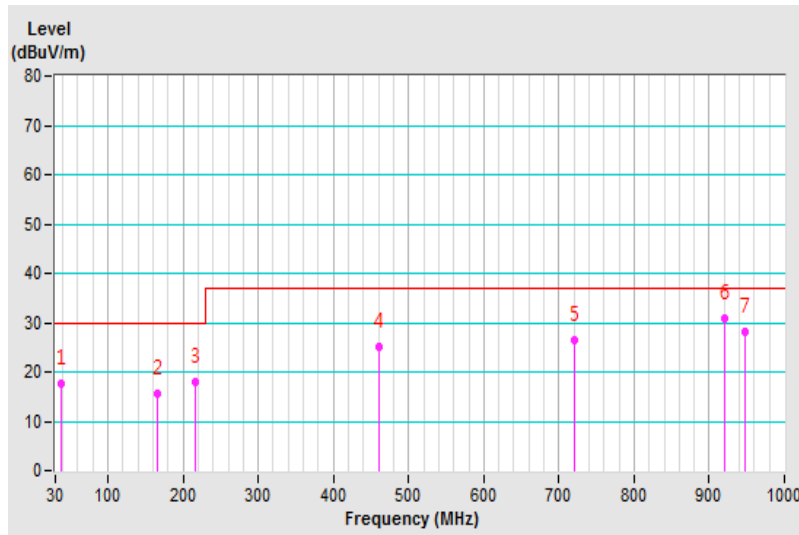


Frequency Range	30MHz ~ 1GHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP), 120kHz
Tested by	James Chang	Environmental Conditions	25°C, 65%RH
Test Mode	Mode 2	Test Date	2019/3/27

Antenna Polarity & Test Distance : Vertical at 10 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	37.86	17.65 QP	30.00	-12.35	1.00 V	216	32.51	-14.86
2	166.58	15.60 QP	30.00	-14.40	3.00 V	266	28.71	-13.11
3	216.01	18.05 QP	30.00	-11.95	1.00 V	255	33.63	-15.58
4	460.02	25.09 QP	37.00	-11.91	4.00 V	346	33.81	-8.72
5	720.04	26.42 QP	37.00	-10.58	1.50 V	324	28.23	-1.81
6	919.97	30.87 QP	37.00	-6.13	2.00 V	302	29.41	1.46
7	947.23	28.26 QP	37.00	-8.74	1.00 V	343	26.56	1.70

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value



7 Radiated Emissions above 1 GHz

7.1 Limits

Emissions radiated outside of the specified bands, shall be according to the general radiated limits as following:

Radiated Emissions Limits at 10 meters (dB μ V/m)				
Frequencies (MHz)	FCC 15B / ICES-003, Class A	FCC 15B / ICES-003, Class B	CISPR 22, Class A	CISPR 22, Class B
1000-3000	Avg: 49.5	Avg: 43.5	Not defined	Not defined
Above 3000	Peak: 69.5	Peak: 63.5	Not defined	Not defined

Radiated Emissions Limits at 3 meters (dB μ V/m)				
Frequencies (MHz)	FCC 15B / ICES-003, Class A	FCC 15B / ICES-003, Class B	CISPR 22, Class A	CISPR 22, Class B
1000-3000	Avg: 60	Avg: 54	Avg: 56 Peak: 76	Avg: 50 Peak: 70
Above 3000	Peak: 80	Peak: 74	Avg: 60 Peak: 80	Avg: 54 Peak: 74

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dB μ V/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

Frequency Range (For unintentional radiators)

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705-108	1000
108-500	2000
500-1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

7.2 Test Instruments

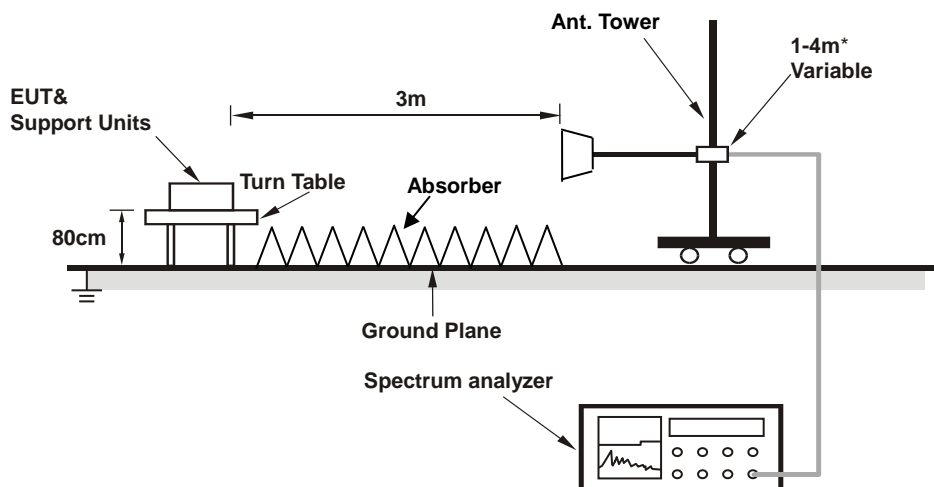
Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ (Above 1GHz)	ESR7	101471	Mar. 07, 2019	Mar. 06, 2020
Spectrum Analyzer Agilent	E4446A	MY51100039	Sep. 10, 2018	Sep. 09, 2019
RF signal cable (with 5dB PAD) Times	LMR-400 (18M)	CABLE-CH2-01	Apr 27, 2018	Apr 26, 2019
HORN Antenna (with 4dB PAD) SCHWARZBECK	BBHA 9120 D	9120D-405	Nov. 25, 2018	Nov. 24, 2019
Pre-Amplifier Agilent (Above 1GHz)	8449B	3008A01961	Oct. 15, 2018	Oct. 14, 2019
RF Coaxial Cable JUNFLON+EMC	JUNFLON+EMC10 4-SM-SM-6000	Cable-CH2- 02(MWX3221308G003+1307 10)	Jun. 11, 2018	Jun. 10, 2019
Software BV ADT	BV ADT_Radiated_ V8.7.08	NA	NA	NA
Antenna Tower BV ADT	AT100	AT93021702	NA	NA
Turn Table BV ADT	TT100	TT93021702	NA	NA
Controller BV ADT	SC100	SC93021702	NA	NA
RF Coaxial Cable EMCI	EMC102-KM-KM- 1000	170819	Dec. 21, 2018	Dec. 20, 2019
RF Coaxial Cable Rosnol	K1K50-UP0279- K1K50-3000	181129-1	Dec. 21, 2018	Dec. 20, 2019
Fix tool for Boresight antenna	BAF-01	2	NA	NA

- Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 2.
3. The horn antenna and preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
4. The IC Site Registration No. is IC 7450F-2.
5. The VCCI Site Registration No. is G-10018.

7.3 Test Arrangement

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- For frequency range 1 GHz ~ 18 GHz, the EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The height of antenna can be varied from one meter to four meters, the height of adjustment depends on the EUT height and the antenna 3 dB beamwidth both, to detect the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The spectrum analyzer system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.

Note: The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz for Average detection (AV) at frequency above 1 GHz.



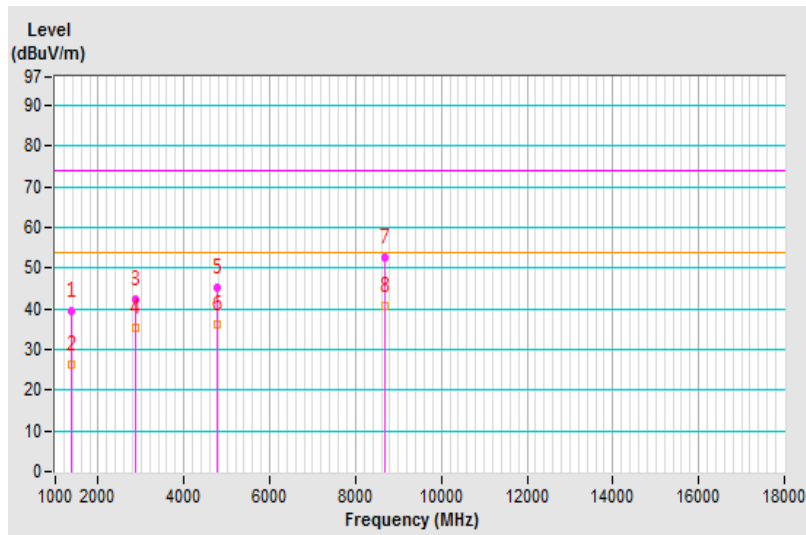
7.4 Test Results

Frequency Range	1GHz ~ 18GHz	Detector Function & Resolution Bandwidth	Peak (PK) / Average (AV), 1MHz
Tested by	Daniel Lin	Environmental Conditions	20°C, 62%RH
Test Mode	Mode 2	Test Date	2019/3/9

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1368.20	39.38 PK	74.00	-34.62	1.00 H	54	42.45	-3.07
2	1368.20	26.20 AV	54.00	-27.80	1.00 H	54	29.27	-3.07
3	2869.20	42.37 PK	74.00	-31.63	1.00 H	158	41.01	1.36
4	2869.20	35.20 AV	54.00	-18.80	1.00 H	158	33.84	1.36
5	4789.20	45.20 PK	74.00	-28.80	2.00 H	211	39.49	5.71
6	4789.20	36.10 AV	54.00	-17.90	2.00 H	211	30.39	5.71
7	8668.20	52.46 PK	74.00	-21.54	1.00 H	229	39.38	13.08
8	8668.20	40.80 AV	54.00	-13.20	1.00 H	229	27.72	13.08

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value

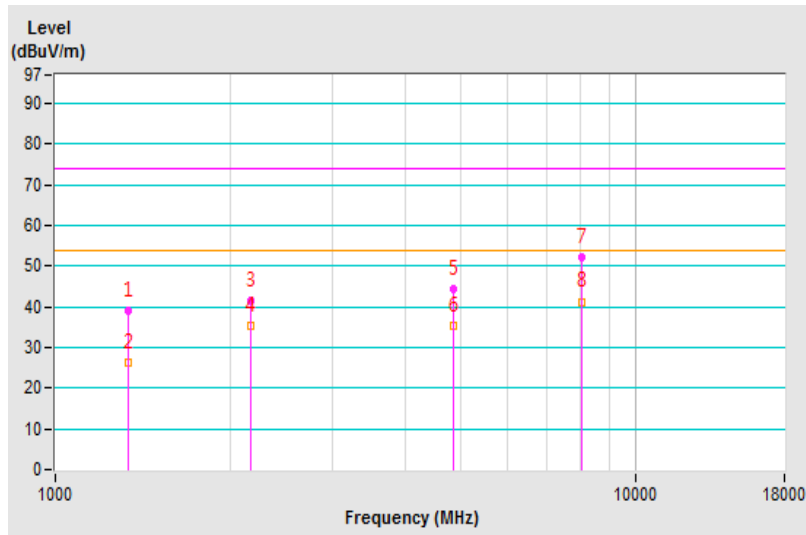


Frequency Range	1GHz ~ 18GHz	Detector Function & Resolution Bandwidth	Peak (PK) / Average (AV), 1MHz
Tested by	Daniel Lin	Environmental Conditions	20°C, 62%RH
Test Mode	Mode 2	Test Date	2019/3/9

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1336.20	38.99 PK	74.00	-35.01	1.00 V	266	42.24	-3.25
2	1336.20	26.20 AV	54.00	-27.80	1.00 V	266	29.45	-3.25
3	2168.23	41.50 PK	74.00	-32.50	1.74 V	226	41.20	0.30
4	2168.23	35.20 AV	54.00	-18.80	1.74 V	226	34.90	0.30
5	4832.50	44.47 PK	74.00	-29.53	1.00 V	252	38.74	5.73
6	4832.50	35.20 AV	54.00	-18.80	1.00 V	252	29.47	5.73
7	8058.30	52.05 PK	74.00	-21.95	1.00 V	122	39.00	13.05
8	8058.30	41.30 AV	54.00	-12.70	1.00 V	122	28.25	13.05

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value



8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

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Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.

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