

FCC Test Report

(PART 95 Subpart I)

Report No.: RFBHSI-WTW-P21123305

FCC ID: 2AYGR-3002

Test Model: CLS110

Received Date: Dec. 16, 2021

Test Date: Jan. 05, 2022 ~ Apr. 27, 2022

Issued Date: May 06, 2022

Applicant: Saluda Medical Pty Ltd

Address: Ground Floor, 407 Pacific Highway, Artarmon NSW 2064, Australia

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Lin Kou Laboratories

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FCC Registration / 788550 / TW0003 Designation Number:



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Release Control Record			
Issue No.	Description	Date Issued	
RFBHSI-WTW-P21123305	Original Release	May 06, 2022	



1 Certificate of Conformity

Product:	roduct: Evoke Closed Loop Stimulator	
Brand:	Saluda Medical	
Test Model:	CLS110	
Sample Status: Commercial Sample		
Applicant:	Saluda Medical Pty Ltd	
Test Date:	Jan. 05, 2022 ~ Apr. 27, 2022	
Standards:	FCC Part 95, Subpart I	

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's Electromagnetic compatibility and Radio spectrum Matters (ERM) characteristics under the conditions specified in this report.

Vera Huang

Prepared by :

Vera Huang / Specialist

Date: May 06, 2022

Approved by :

Jeremy Lin

Date: May 06, 2022

Jeremy Lin / Project Engineer



2 Summary of Test Results

The EUT has been tested according to the following specifications:

FCC Part 95I & Part 2			
Clause	Test Descriptions	Result	
FCC 95.2565 FCC 2.1055	Frequency Error	Pass Fail N/A N/P (Limited Program)	
FCC 95.2573(a) & 2563(a) FCC 2.1047	Emission Bandwidth	⊠Pass □Fail □N/A □N/P (Limited Program)	
FCC 95.2579(a)(c)	Emission Mask	Pass Fail N/A N/P (Limited Program)	
FCC 2.1049	Occupied Bandwidth	⊠Pass □Fail □N/A □N/P (Limited Program)	
FCC 95.2567(a)(1) FCC 2.1046	Transmitter Output Power	Pass Fail N/A N/P (Limited Program)	
FCC 95.2579(a)(1)&(c)& (g) FCC 2.1053	Transmitter Unwanted Emission	Pass Fail N/A N/P (Limited Program)	
FCC 95.2559	MedRadio channel access requirements	Pass Fail N/A N/P (Limited Program)	
FCC 95.2559(a)(3)&(4)	LBT Threshold Power Levels	Pass Fail N/A N/P (Limited Program)	
FCC 95.2559(a)(1)	Monitoring System Bandwidth	Pass Fail N/A N/P (Limited Program)	
FCC 95.2559(a)(2)	Monitoring System Scan Cycle Time	Pass Fail N/A N/P (Limited Program)	
FCC 95.2559(a)(6)	Minimum Channel Monitoring Period	Pass Fail N/A N/P (Limited Program)	
FCC 95.2559(a)(5)	Channel Access	□Pass □Fail ⊠N/A □N/P (Limited Program)	
FCC 95.2559(a)(5) /95.2557(a)	Discontinuation of MICS Session	Pass Fail N/A N/P (Limited Program)	

N/A: Not Applicable

N/P: Not Performed

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.



2.1 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver KEYSIGHT	N9038A	MY51210203	Sep. 22, 2021	Sep. 21, 2022
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Jun. 10, 2021	Jun. 09, 2022
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	Oct. 28, 2021	Oct. 27, 2022
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-1169	Nov. 14, 2021	Nov. 13, 2022
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Oct. 26, 2021	Oct. 25, 2022
Loop Antenna TESEQ	HLA 6121	45745	Jul. 21, 2021	Jul. 20, 2022
Preamplifier Agilent (Below 1GHz)	8447D	2944A10638	Jun. 05, 2021	Jun. 04, 2022
Preamplifier			Feb. 17, 2021	Feb. 16, 2022
Agilent (Above 1GHz)	8449B	3008A02367	Feb. 16, 2022	Feb. 15, 2023
RF signal cable	SUCOFLEX 104 & EMC104-SM-	CABLE-CH9-02	Jan. 16, 2021	Jan. 15, 2022
HUBER+SUHNER&EMCI	SM8000	(248780+171006)	Jan. 15, 2022	Jan. 14, 2023
RF signal cable	SUCOFLEX 104	CABLE-CH9-	Jan. 16, 2021	Jan. 15, 2022
HUBER+SUHNER		(250795/4)	Jan. 15, 2022	Jan. 14, 2023
RF signal cable Woken	8D-FB	Cable-CH9-01	Jun. 05, 2021	Jun. 04, 2022
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	NA	NA	NA
Antenna Tower &Turn BV ADT	AT100	AT93021705	NA	NA
Turn Table BV ADT	TT100	TT93021705	NA	NA
Turn Table Controller BV ADT	SC100	SC93021705	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
STANDARD TEMPERATURE &HUMIDITY CHAMBER TERCHY	MHU-225AU	920842	Jun. 15, 2021	Jun. 14, 2022
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	100115	Feb. 03, 2021 Jan. 27, 2022	Feb. 02, 2022 Jan. 26, 2023

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 9.



Simulated human torso for equipment intended to be implanted or worn on the human body: ULP-AMIs shall be tested in a simulated man constructed as follows in order to simulate operation of the ULP-AMI under actual operation conditions as shown in figure B.2.

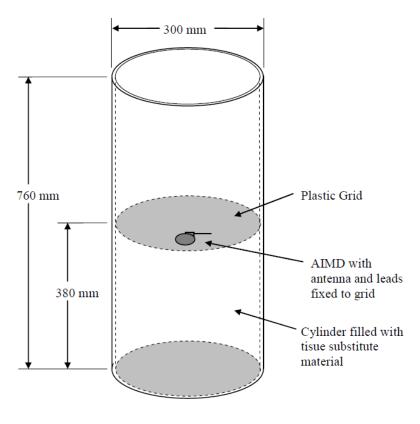


Figure B.2

Note: The EUT is 1.5m above ground during testing for radiated power and emissions testing.



	INGREDIENTS (%BY WEIGHT)
WATER	51.16
SALT (NaCI)	1.49
SUGAR	46.78
HEC	0.52
BACTERICIDE	0.05
TEMPERATURE	23.5°C

Salt water standard parameters and measured values

TISSUE TYPE	BODY		
FREQUENCY (MHz)	STANDARD VALUE (±5%)		
	CONDUCTIVITY (σ)	PERMITIVITY (εr)	
402	0.93	57.2	
403	0.93	57.2	
404	0.93	57.2	
405	0.93	57.2	
FREQUENCY	MEASUREMENT VALUE		
(MHz)	CONDUCTIVITY (σ)	PERMITIVITY (εr)	
402	0.91	58.1	
403	0.91	58.1	
404	0.91	58.1	
405	0.91 58.0		
FREQUENCY	Devi	ation	
(MHz)	CONDUCTIVITY	PERMITIVITY	
402	-2.15%	1.57%	
403	-2.15%	1.57%	
404	-2.15%	1.57%	
405	-2.15% 1.40%		

Salt water test instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Agilent Network Analyzer (9kHz ~ 8.5GHz)	E5071C	MY46107999	Mar. 25, 2021 Apr. 21, 2022	Mar. 24, 2022 Apr. 20, 2023
Agilent Dielectric Probe Kit (200MHz ~ 20GHz)	85070D	8710-2036	NA	NA



2.2 Measurement Uncertainty

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

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Parameter	Uncertainty
Radio Frequency	±1.13 x10 ⁻⁸
Adjacent channel power	±0.31 dB
RF power, conducted	±0.61 dB
Conducted emission of transmitter	±1.34 dB
Conducted emission of receivers	±1.25 dB
Radiated emission of transmitter, valid up to 4 GHz	±2.29 dB
Radiated emission of receiver, valid up to 4 GHz	±2.29 dB
Conducted monitoring test system	±1.34 dB
Radiated monitoring test system	±2.29 dB
Temperature	±0.6 °C
Humidity	±4 %



3 General Information

3.1 General Description of EUT

.1 General Description of			
Product	Evoke Closed Loop Stimulator		
Brand	Saluda Medical		
Test Model	CLS110 (refer to Note 1 for more details)		
Sample Status	Commercial Sample		
Nominal Voltage	3.6Vdc (battery)		
Voltage Operation Range	Vnom= 3.60V Vmin= 3.25V Vmax= 4.10V		
Temperature Operating Range	Tmin: \square -20°C \square 0°C \boxtimes 20 °CTnom: \boxtimes 37°CTmax: \square +35°C \square 55°C \boxtimes 42°C		
Test source voltage	Vmin: □ 207V/50Hz ⊠ 3.25Vdc Vnom: □ 230V/50Hz ⊠ 3.60Vdc Vmax: □ 253V/50Hz ⊠ 4.10Vdc		
Type of power source	Battery (Alkaline/Lithium-Ion/Lead acid/Other) Internal power supply		
Duty Cycle	🗌 Continuous duty 🔲 Intermittent duty 🖂 Continuous operation		
Modulation Type	FSK		
Modulation Technology	2FSK		
Transfer Rate	200kbps		
Operating Frequency	402~405MHz		
Number of Channel	8		
Spectrum Access	LBT/AFA		
EIRP Power (Measured Max.)	-32.24dBm		
Antenna Type	Loop antenna type 🛛 Integral 🗌 Exrernal		
Antenna Connector	NA		
Antenna Gain	-30dBi, 🛛 Specified by manufacturer 🗌 Measured		
Test sequence / test software used:	EMC Test Software PN102448 Rev. 1.00; Firmware PN 102451 Rev. 1.00		
Accessory Device	None		
Data Cable Supplied	N/A		

Note:

1. The EUT detailed information is provided in the following table.

Brand	Model	S/N	Rev	Ref
Saluda Medical	CLS110	000682 & 000283	5.00	P/N 101294

2. The EUT is powered by the following battery.

Product	Brand	Model	Description
Battery	Quallion	QL200I-A	3.6 Vdc, 200 mAh

3. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

4. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.



3.2 Description of Test Modes

8 channels are provided:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1 (C-Low)	402.45	5 (C-Mid)	403.65
2	402.75	6	403.95
3	403.05	7	404.25
4	403.35	8 (C-High)	404.55

The EUT is set in the following modes during tests:

- Permanent emission with modulation on a fixed channel at the highest power

- Permanent emission without modulation on a fixed channel at the highest power

- Search Loop



3.2.1	Test Mode Applicability and Tested Channel Detail
0.2.1	root mode / pprodointy and rooted enamer betan

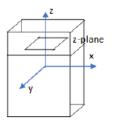
EUT configure	Applicable to					Description		
mode	FE	EB	OB	EM	EIRP	TUE	SAP	Description
-	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	-	-
Where FE: Frequency Error EIRP: Transmitter Output Power (EIRP)								
EB:	EB: Emission Bandwidth TUE: Transmitter Unwanted Emission					1		

OB: Occupied Bandwidth

SAP: Spectrum Access Protocol (MedRadio channel access requirements)

EM: Emission Mask

Note: 1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on Z-plane as shown below.



2. "-" means no effect.

Frequency Error:

 \boxtimes Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

 \boxtimes Following channel(s) was (were) selected for the final test as listed below.

Test condition	Available Channel	Tested Channel
 internal permanent antenna temporary antenna connector 	1-8	1, 8
human torso simulator		

Emission Bandwidth:

 \boxtimes Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

 \boxtimes Following channel(s) was (were) selected for the final test as listed below.

Test condition	Available Channel	Tested Channel
internal permanent antenna		
temporary antenna connector	1-8	1, 5, 8
human torso simulator		



Occupied Bandwidth:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

Test condition	Available Channel	Tested Channel
🛛 internal permanent antenna		
temporary antenna connector	1-8	1, 5, 8
human torso simulator		

Emission Mask:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
 Following channel(s) was (were) selected for the final test as listed below.

EUT configure mode	Test condition	Available Channel	Tested Channel
Lot configure filode	iest condition	Available Clidille	iesteu Glidilliei
	🛛 internal permanent antenna		
-	temporary antenna connector	1 - 8	1, 5, 8
	🛛 human torso simulator		

Transmitter Output Power (EIRP):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

Test condition	Available Channel	Tested Channel
☑ internal permanent antenna		
temporary antenna connector	1-8	1, 5, 8
human torso simulator		

Transmitter Unwanted Emission:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

Test condition	Available Channel	Tested Channel
🛛 internal permanent antenna		
temporary antenna connector	1-8	1, 5, 8
human torso simulator		

Test Condition:

Applicable to	Applicable to Environmental conditions		Tested by
FE	FE 23 deg. C, 68% RH		Frank Liu
EB	EB 23 deg. C, 68% RH		Frank Liu
OB 23 deg. C, 68% RH		3.6Vdc (battery)	Frank Liu
EM 23 deg. C, 68% RH		3.6Vdc (battery)	Frank Liu
EIRP 19 deg. C, 65% RH		3.6Vdc (battery)	Rex Wang
TUE	19 deg. C, 65% RH	3.6Vdc (battery)	Rex Wang

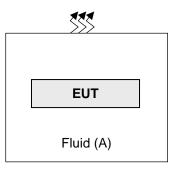


3.3 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
Α.	Fluid	NA	NA	NA	NA	-

3.3.1 Configuration of System under Test



3.4 General Description of Applied Standards

The EUT is a RF Product. According to the specification of the EUT declared by the manufacturer, it must comply with the requirements of the following standards:

FCC 47 CFR Part 2 FCC 47 CFR Part 95 subpart I Measurement Method: ANSI C63.26:2015

All test items have been performed and recorded as per the above standard.



4 Test Procedure and Results

4.1 Frequency error

4.1.1 Limits

The frequency error for equipment operating in the 402 MHz to 405 MHz band shall not exceed \pm 100 ppm under normal, extreme or any intermediate set of conditions.

(a) 25 °C to 45 °C in the case of medical implant transmitters; and

(b) 0 °C to 55 °C in the case of MedRadio programmer/control transmitters and medical bodyworn transmitters.

4.1.2 Test Instruments

Refer to section 2.1 to get information of above instrument.

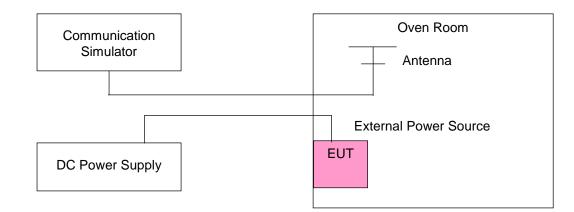
4.1.3 Test Procedures

- a. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- b. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- c. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the ±0.5°C during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

4.1.4 Deviation from Test Standard

No deviation

4.1.5 Test Setup





4.1.6 Test Results

Frequency Error vs. Voltage

Voltage	(CH1) 402.45 MHz		(CH8) 404.55 MHz	
(Vdc)	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.00	402.449200	-1.988	404.548800	-2.966
3.25	402.450100	0.248	404.551200	2.966
4.10	402.450200	0.497	404.550800	1.978

Note: The applicant defined the normal working voltage is from 3.00Vdc to 4.10Vdc.

Frequency Error vs. Temperature

Temp (°C)	(CH1) 40	2.45 MHz	(CH8) 40	4.55 MHz
Temp. (°C)	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
0	402.446800	-7.951	404.546800	-7.910
10	402.447900	-5.218	404.547800	-5.438
20	402.449200	-1.988	404.548800	-2.966
25	402.447500	-6.212	404.547600	-5.933
30	402.452400	5.963	404.549800	-0.494
35	402.448800	-2.982	404.548300	-4.202
40	402.452600	6.460	404.551100	2.719
45	402.452200	5.467	404.551600	3.955
50	402.453100	7.703	404.551400	3.461
55	402.454300	10.685	404.551900	4.697



4.2 Emission bandwidth & Emission Mask

4.2.1 Limits

95.2573 (a) for Emission bandwidth

(a) For MedRadio <u>transmitters</u> operating in the 402-405 MHz band, the maximum <u>MedRadio emission</u> <u>bandwidth</u> is 300 kHz. Such <u>transmitters</u> must not use more than 300 kHz of bandwidth (total) during a <u>MedRadio communications session</u>. This provision does not preclude full duplex or half duplex communications provided that the total bandwidth of all of the channels employed in a <u>MedRadio communications session</u> does not exceed 300 kHz.

95.2579(c) for Emission Mask

Attenuation requirements, 402-405 MHz. For MedRadio transmitter types designed to operate in the 402-405 MHz band, unwanted emissions must be attenuated below the maximum permitted transmitter output power by at least:

(1) 20 dB, on any frequency within the 402-405 MHz band that is more than 150 kHz away from the center frequency of the MedRadio channel the transmission is intended to occupy;

(2) 20 dB, on any frequency between 401.750 MHz and 402.000 MHz, and on any frequency between 405 MHz and 405.250 MHz.

4.2.2 Test Procedure

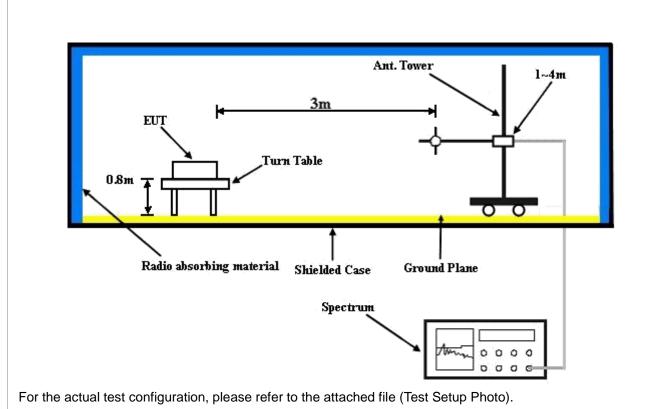
- a. The emission bandwidth was radiated measurement.
- b. EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power.
- c. The bandwidth of the fundamental frequency was measured by spectrum analyzer with RBW = 3kHz and VBW = 10kHz. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB(spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth).

4.2.3 Deviation from Test Standard

No deviation.

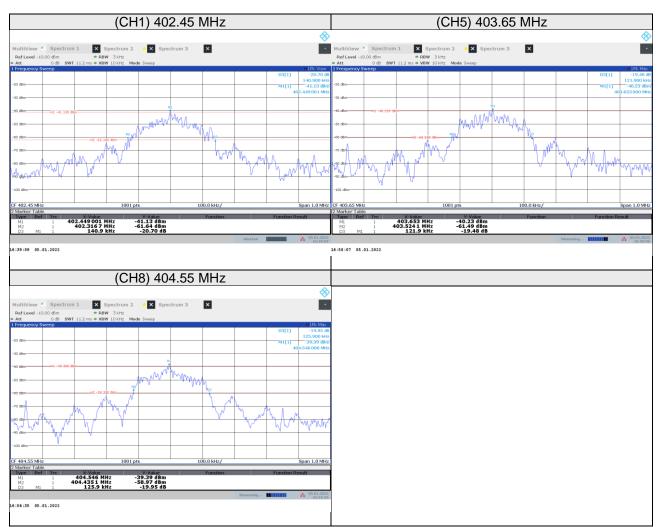


4.2.4 Test Setup

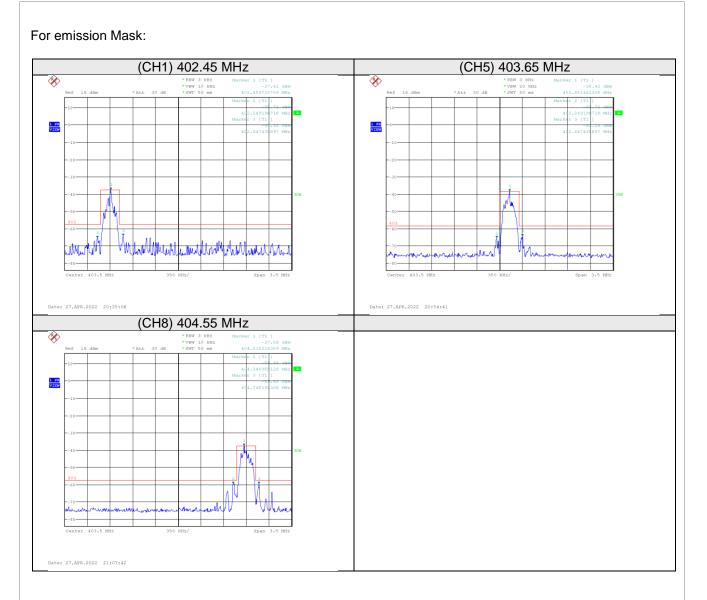




4	4.2.5 Test Results											
	Channel	Channel Frequency	20dB down Bandwidth	Measured F	requencies	Limit	Pass/Fail					
	Channel	(MHz) (MHz)		F∟ (MHz)	Fн (MHz)	Linne	1 400,1 41					
	1	402.45	0.1409	402.3617	402.4576	FL > 402 MHz	Pass					
	5	403.65	0.1219	403.5241	403.646	and FH < 405 MHz	Pass					
	8	404.55	0.1259	404.4351	404.561	and 0.3 MHz	Pass					









4.3 Occupied Bandwidth Measurement

4.3.1 Limits

No limit.

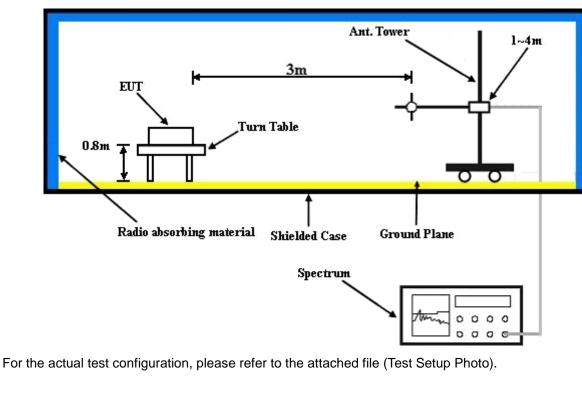
4.3.2 Test Procedure

- a. The emission bandwidth was radiated measurement.
- EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power.
- c. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to peak.

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to peak. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean power of a given emission.

4.3.3 Deviation from Test Standard

No deviation.



4.3.4 Test Setup



4.3.5 **Test Results** Centre Frequencies fc (MHz) 1 Channel 5 8 Occupied Bandwidth 240.4364 241.249 239.509 (99% emission bandwidth) (kHz) (CH5) 403.65 MHz (CH1) 402.45 MHz × Sp rum 2 🔸 🗙 Spectrum 3 🛛 🗙 × S ım 2 🔸 🗙 Spectrum 3 🛛 🗙 / 🍨 Spectrum 1 • Ref Level -10.00 Ref Level -10.0 MM m www 1001 pts 100.0 kHz/ 100.0 kHz/ ipan 1.0 MH pan 1.0 Mŀ 1001 pts X-Value 402.448 MH Y-Value -40.75 dBn Function Result 240.436 371 24 kHz X-Value 403.649 MH Y-Value -38.38 dB Function Result 241.249 411 877 kHz Occ Bw Occ Bw Cer 5:44:36 05.01.2022 16:51:33 05.01.2022 (CH8) 404.55 MHz X Spectrum 3 × × . yn M 100.0 kHz/ 1001 pts an 1.0 MF X-Value 404.541 MHz Y-Value -40.61 dBn Function Result 39,508 996 188 kHz Occ Bw Occ Bw Centroid Occ Bw Frog Off 7:00:57 05.01.2022



4.4 Transmitter Output Power (EIRP)

4.4.1 Limits

The M-EIRP within any 300 kHz bandwidth within the 402-405 MHz band must not exceed 25 microwatts.

4.4.2 Test Instruments

Refer to section 2.1 to get information of above instrument.

4.4.3 Test Procedure

- a. In the semi-anechoic chamber, EUT placed on the 0.8m(below or equal 1GHz) and/or 1.5m(above 1GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The height of antenna 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.
- c. Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP/ERP level.
- d. Following C63.26 section 5.5 and 5.2.7.
 - EIRP (dBm) = E (dBµV/m) + 20log(D) 104.8; where D is the measurement distance (in the far field region) in m.
 - ERP (dBm) = E (dBµV/m) + 20log(D) 104.8 2.15; where D is the measurement distance (in the far field region) in m.

Note:

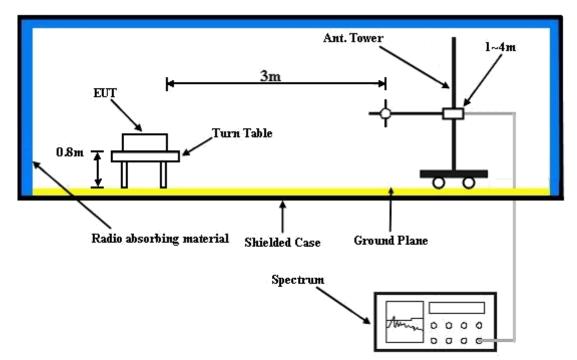
- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz, and the detector type is Peak.
- The emission levels were against the limit of frequency range 9 kHz ~ 30 MHz: The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

4.4.4 Deviation from Test Standard

No deviation.



4.4.5 Test Setup



For the actual test configuration, please refer to the attached file (Test Setup Photo).

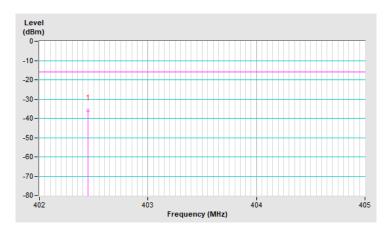


4.4.6 Test Results

Mode	TX channel 1 (402.45 MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	19deg. C, 65%RH	Input Power	3.6Vdc
Tested By	Rex Wang		

	Antenna Polarity & Test Distance : Horizontal at 3 m									
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)		
1	402.45	-35.91	-16.02	-19.89	1.34 H	165	36.23	-72.14		

- 1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB) + 20log(D) 104.8
- 3. Margin value = EIRP Limit value
- 4. The other EIRP levels were very low against the limit.

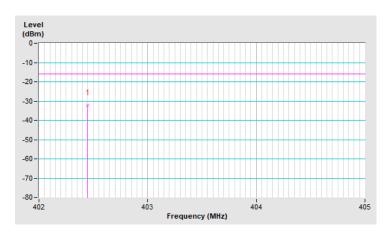




Mode	TX channel 1 (402.45 MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	19deg. C, 65%RH	Input Power	3.6Vdc
Tested By	Rex Wang		

	Antenna Polarity & Test Distance : Vertical at 3m									
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)		
1	402.45	-32.26	-16.02	-16.24	1.64 V	114	39.88	-72.14		

- 1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB) + 20log(D) 104.8
- 3. Margin value = EIRP Limit value
- 4. The other EIRP levels were very low against the limit.

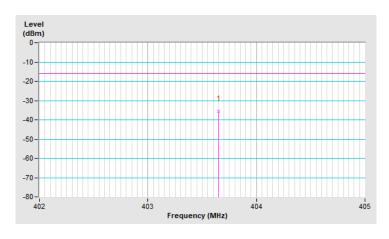




Mode	TX channel 5 (403.65 MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	19deg. C, 65%RH	Input Power	3.6Vdc
Tested By	Rex Wang		

	Antenna Polarity & Test Distance : Horizontal at 3 m									
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)		
1	403.65	-35.64	-16.02	-19.62	1.37 H	166	36.48	-72.12		

- 1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB) + 20log(D) 104.8
- 3. Margin value = EIRP Limit value
- 4. The other EIRP levels were very low against the limit.

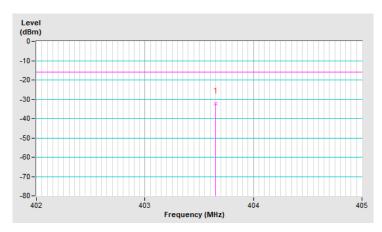




Mode	TX channel 5 (403.65 MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	19deg. C, 65%RH	Input Power	3.6Vdc
Tested By	Rex Wang		

	Antenna Polarity & Test Distance : Vertical at 3m									
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)		
1	403.65	-32.32	-16.02	-16.30	1.64 V	115	39.80	-72.12		

- 1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB) + 20log(D) 104.8
- 3. Margin value = EIRP Limit value
- 4. The other EIRP levels were very low against the limit.

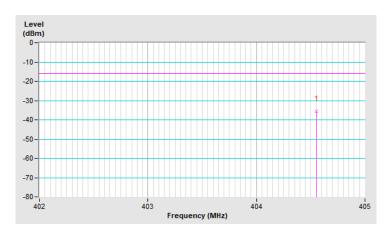




Mode	TX channel 8 (404.55 MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	19deg. C, 65%RH	Input Power	3.6Vdc
Tested By	Rex Wang		

	Antenna Polarity & Test Distance : Horizontal at 3 m									
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)		
1	404.55	-35.46	-16.02	-19.44	1.35 H	162	36.64	-72.10		

- 1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB) + 20log(D) 104.8
- 3. Margin value = EIRP Limit value
- 4. The other EIRP levels were very low against the limit.

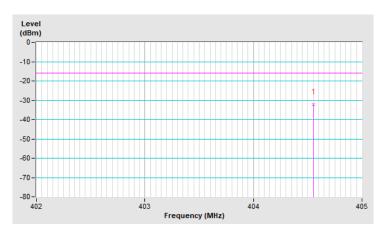




Mode	TX channel 8 (404.55 MHz)	Frequency Range	Below 1000 MHz			
Environmental Conditions	19deg. C, 65%RH	Input Power	3.6Vdc			
Tested By	Rex Wang					

	Antenna Polarity & Test Distance : Vertical at 3m									
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)		
1	404.55	-32.24	-16.02	-16.22	1.68 V	116	39.86	-72.10		

- 1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB) + 20log(D) 104.8
- 3. Margin value = EIRP Limit value
- 4. The other EIRP levels were very low against the limit.





4.5 Transmitter Unwanted Emission

4.5.1 Limits

(a) Emissions from MICS devices more than 250 kHz outside of the 402-405 MHz band shall not exceed the field strength limits specified below:

Frequencies (MHz)	Field Strength (microvolts/meter)		
30 ~ 88	100	40	3
88 ~ 216	150	43.5	3
216 ~ 960	200	46	3
Above 960	500	53.9	3

Note:

- 1. At band edges, the tighter limit applies.
- 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3. For frequencies above 1000MHz, 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 20dB under any condition of modulation. Below 1 GHz, field strength is measured using a CISPR quasi-peak detector.
- 4. Radiated unwanted emissions from a MedRadio transmitter type must be measured to at least the tenth harmonic of the highest fundamental frequency emitted.
- (b) Emissions within the 402-405 MHz MICS band which are more than 150 kHz away from the centre frequency of the spectrum, and the transmissions that occupy up to 250 kHz above and below the band shall be attenuated at least 20 dB below the maximum transmitter output power.

4.5.2 Test Instruments

Refer to section 2.1 to get information of above instrument.

4.5.3 Test Procedure

For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.



For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna 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.
- d. 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.
- e. 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.
- f. The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

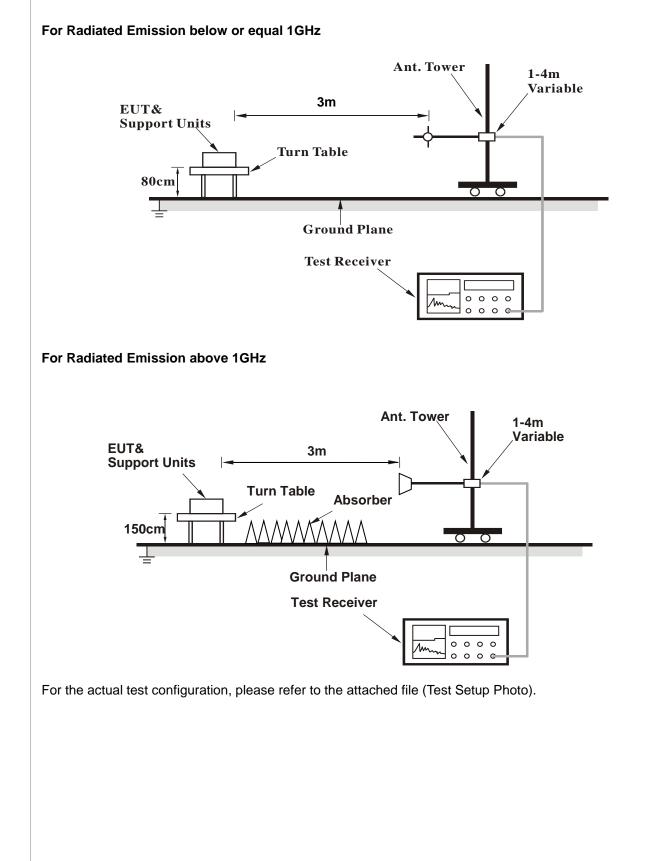
- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasipeak detection (QP) at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.
- 4. All modes of operation were investigated and the worst-case emissions are reported.

4.5.4 Deviation from Test Standard

No deviation



4.5.5 Test Setup





4.5.6 Test Results

Above 1GHz data:

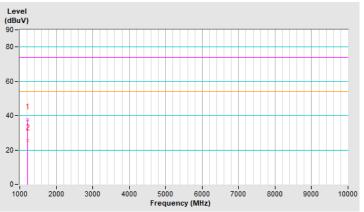
CHANNEL	TX Channel 1	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 10GHz	FUNCTION	Average (AV)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)			
1	1207.35	37.7 PK	74.0	-36.3	3.75 H	95	43.2	-5.5			
2	1207.35	25.4 AV	54.0	-28.6	3.75 H	95	30.9	-5.5			

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)

- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value



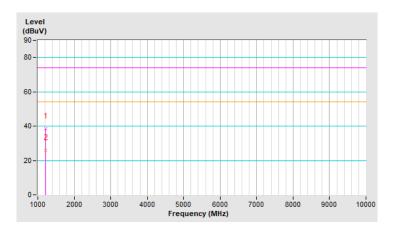


CHANNEL	TX Channel 1	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 10GHz	FUNCTION	Average (AV)

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)			
1	1207.35	38.4 PK	74.0	-35.6	3.48 V	22	43.9	-5.5			
2	1210.95	25.9 AV	54.0	-28.1	3.48 V	22	31.2	-5.3			

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)

- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value



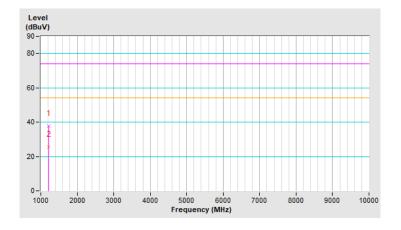


CHANNEL	TX Channel 5	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 10GHz	FUNCTION	Average (AV)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)			
1	1210.95	37.8 PK	74.0	-36.2	3.74 H	102	43.1	-5.3			
2	1210.95	25.5 AV	54.0	-28.5	3.74 H	102	30.8	-5.3			

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)

- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value





CHANNEL	TX Channel 5	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 10GHz	FUNCTION	Average (AV)

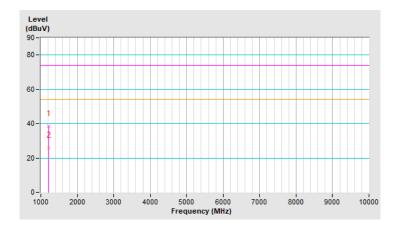
	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)			
1	1210.95	38.5 PK	74.0	-35.5	3.44 V	20	43.8	-5.3			
2	1210.95	26.0 AV	54.0	-28.0	3.44 V	20	31.3	-5.3			

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



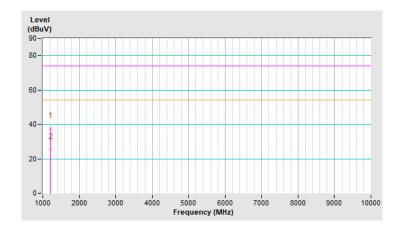


CHANNEL	TX Channel 8	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 10GHz	FUNCTION	Average (AV)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)	
1	1213.65	37.8 PK	74.0	-36.2	3.73 H	99	43.1	-5.3	
2	1213.65	25.5 AV	54.0	-28.5	3.73 H	99	30.8	-5.3	

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)

- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value





CHANNEL	TX Channel 8	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 10GHz	FUNCTION	Average (AV)

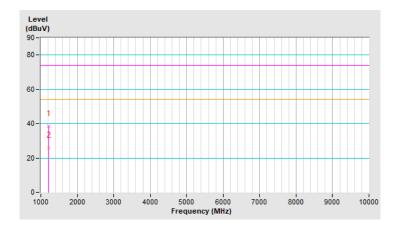
	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)	
1	1213.65	38.5 PK	74.0	-35.5	3.48 V	19	43.8	-5.3	
2	1213.65	25.9 AV	54.0	-28.1	3.48 V	19	31.2	-5.3	

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





Below 1GHz data:

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

		ANTENNA	POLARITY	& TEST DIS	TANCE: HO	RIZONTAL A	AT 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	339.43	21.47 QP	46.00	-24.53	2.00 H	17	27.54	-6.07
2	523.73	27.18 QP	46.00	-18.82	1.50 H	267	29.18	-2.00
3	608.12	28.87 QP	46.00	-17.13	1.00 H	232	29.06	-0.19
4	656.62	29.22 QP	46.00	-16.78	1.00 H	224	28.91	0.31
5	910.76	33.50 QP	46.00	-12.50	1.25 H	36	27.81	5.69
6	994.18	33.99 QP	54.00	-20.01	1.25 H	298	27.97	6.02

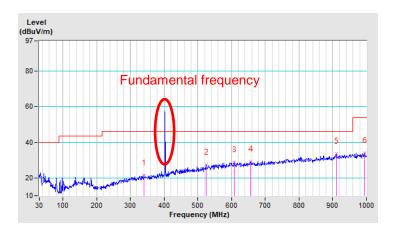
Remarks:

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. Margin value = Emission Level – Limit value

- 4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
- 5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



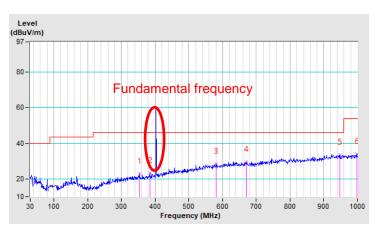


CHANNEL	TX Channel 1	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)		
1	353.01	22.74 QP	46.00	-23.26	1.50 V	22	28.74	-6.00		
2	384.05	23.37 QP	46.00	-22.63	1.00 V	259	28.61	-5.24		
3	580.96	28.40 QP	46.00	-17.60	1.25 V	30	29.15	-0.75		
4	669.23	29.49 QP	46.00	-16.51	1.50 V	2	29.04	0.45		
5	947.62	33.57 QP	46.00	-12.43	1.50 V	69	27.46	6.11		
6	997.09	34.05 QP	54.00	-19.95	1.25 V	142	28.15	5.90		

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)

- 3. Margin value = Emission Level Limit value
- 4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
- 5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



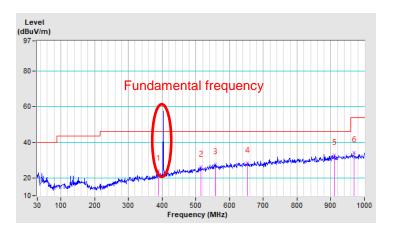


CHANNEL	TX Channel 5	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)		
1	388.90	23.95 QP	46.00	-22.05	1.50 H	28	29.12	-5.17		
2	515.00	26.16 QP	46.00	-19.84	1.00 H	358	28.36	-2.20		
3	556.71	27.85 QP	46.00	-18.15	1.50 H	310	29.32	-1.47		
4	652.74	28.59 QP	46.00	-17.41	1.25 H	160	28.30	0.29		
5	910.76	32.69 QP	46.00	-13.31	1.25 H	286	27.00	5.69		
6	968.96	34.44 QP	54.00	-19.56	1.00 H	229	28.22	6.22		

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)

- 3. Margin value = Emission Level Limit value
- 4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
- 5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



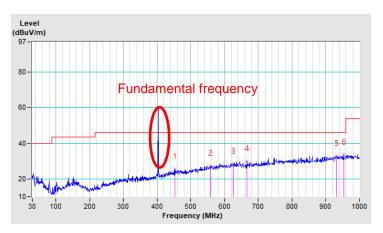


CHANNEL	TX Channel 5	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)		
1	452.92	25.45 QP	46.00	-20.55	1.25 V	40	28.84	-3.39		
2	557.68	27.42 QP	46.00	-18.58	1.25 V	336	28.87	-1.45		
3	625.58	28.49 QP	46.00	-17.51	1.25 V	223	28.43	0.06		
4	666.32	30.07 QP	46.00	-15.93	1.25 V	86	29.62	0.45		
5	932.10	33.01 QP	46.00	-12.99	2.00 V	50	26.86	6.15		
6	952.47	33.46 QP	46.00	-12.54	1.50 V	292	27.31	6.15		

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)

- 3. Margin value = Emission Level Limit value
- 4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
- 5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



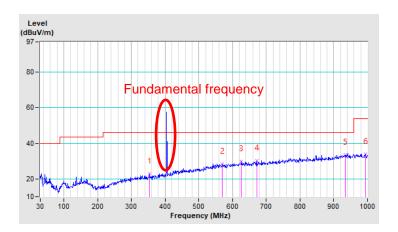


CHANNEL	TX Channel 8	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	353.01	22.72 QP	46.00	-23.28	1.50 H	239	28.72	-6.00
2	569.32	28.38 QP	46.00	-17.62	1.25 H	337	29.65	-1.27
3	626.55	29.80 QP	46.00	-16.20	1.25 H	44	29.72	0.08
4	671.17	30.33 QP	46.00	-15.67	1.50 H	86	29.89	0.44
5	934.04	33.41 QP	46.00	-12.59	1.25 H	296	27.27	6.14
6	993.21	34.06 QP	54.00	-19.94	1.00 H	145	28.04	6.02

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)

- 3. Margin value = Emission Level Limit value
- 4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
- 5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



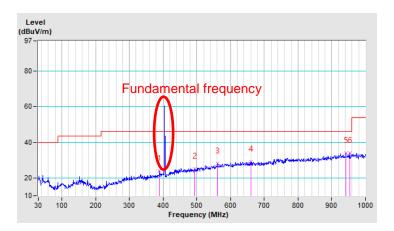


CHANNEL	TX Channel 8	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	388.90	23.94 QP	46.00	-22.06	1.00 V	36	29.11	-5.17
2	493.66	25.06 QP	46.00	-20.94	1.50 V	324	27.75	-2.69
3	561.56	27.89 QP	46.00	-18.11	1.25 V	88	29.28	-1.39
4	659.53	29.28 QP	46.00	-16.72	1.00 V	290	28.94	0.34
5	941.80	34.11 QP	46.00	-11.89	2.00 V	55	27.91	6.20
6	952.47	34.06 QP	46.00	-11.94	1.50 V	187	27.91	6.15

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)

- 3. Margin value = Emission Level Limit value
- 4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
- 5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.





5 Photographs of the Test Configuration

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 and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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

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