

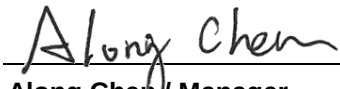
FCC Test Report

FCC ID : JVPFK1-DW-D
Equipment : Mouse for e-Sports
Model No. : FK1-DW-D
Brand Name : ZOWIE
Applicant : BENQ CORPORATION
Address : 16 Jihu Road, Neihu, Taipei 114, Taiwan
Standard : 47 CFR FCC Part 15.249
Received Date : Apr. 15, 2026
Tested Date : Apr. 23 ~ Apr. 30, 2026

We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:

Approved by:


Along Chen / Manager


Gary Chang / Manager

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Release Record

Report No.	Version	Description	Issued Date
FR641501	Rev. 01	Initial issue	May 22, 2026

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emissions	[dBuV]: 0.198MHz 34.84 (Margin -28.87dB) - QP	Pass
15.249(a)	Field Strength of Fundamental	Meet the requirement of limit	Pass
15.249(a)(d)	Field Strength of Harmonics and Emissions Radiated outside of the Specified Frequency Bands	Meet the requirement of limit	Pass
15.215(c)	20dB bandwidth	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information				
Frequency Range (MHz)	Modulation	Ch. Freq. (MHz)	Channel Number	Data Rate
2402-2480	GFSK	2403-2481	1-79 [79]	2Mbps

1.1.2 Antenna Details

Brand	Model	Type	Connector	Gain (dBi)
BENQ Corporation	FK1 -DW ANT	insert molding metal antenna	NA	3

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Type	3.87Vdc from battery 5Vdc from host, 500mA
------------	---

1.1.4 Accessories

No.	Equipment	Description
1	Battery	Brand: Future Power Model: FT452030P/310mAh Rating: 310mAh, 3.87 Vdc
2	USB cable	Brand: YUE-YANG ELECTRONIC FACTORY Model: USB TYPE A TO TYPE C 1.8m shielded without core.

1.1.5 Channel List

Frequency band (MHz)				2400~2483.5			
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461	79	2481
20	2422	40	2442	60	2462	---	---

1.1.6 Test Tool and Duty Cycle

Test Tool	radio_test, Version: 1.0.0.0	
Duty Cycle and Duty Factor	Duty Cycle (%)	Duty Factor (dB)
	100.00	0.00

1.1.7 Power Index of Test Tool

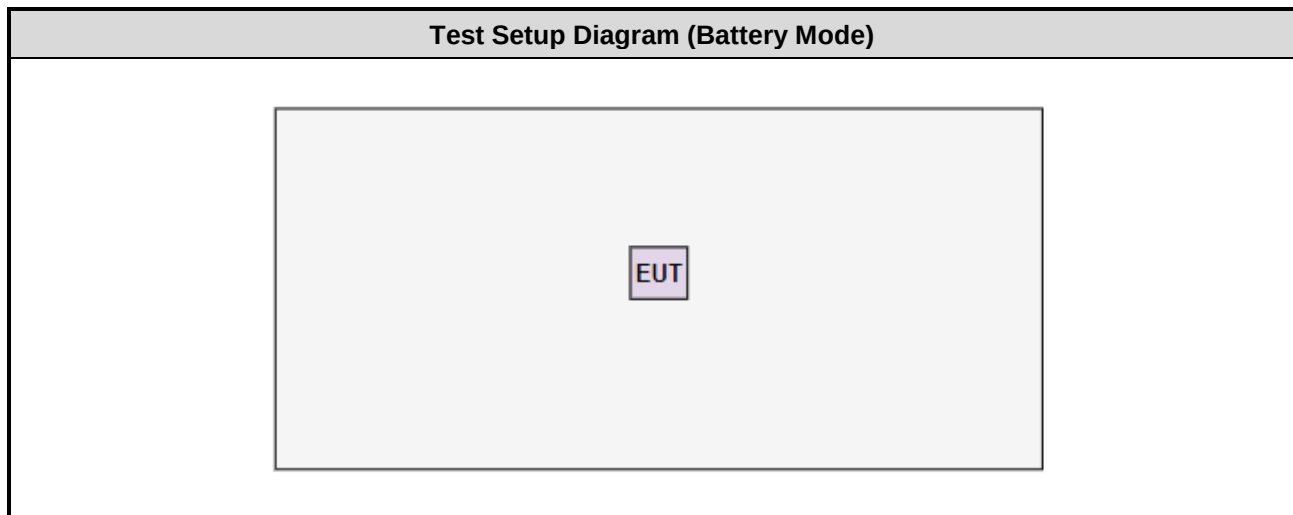
Modulation Mode	Test Frequency (MHz)		
	2403	2442	2481
GFSK	default	default	default

1.2 Local Support Equipment List

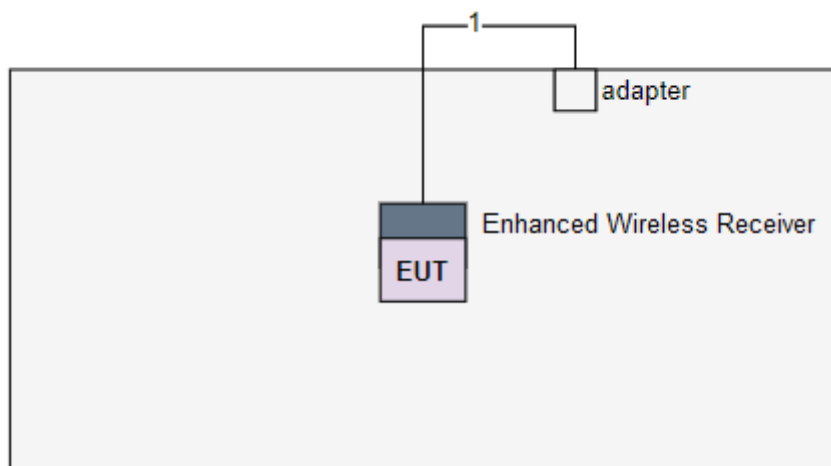
Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Laptop	DELL	Latitude 5400	DoC	---
For charging mode use only					
2	Enhanced Wireless Receiver	ZOWIE	ER2-80	JVPER2-80	Provided by applicant.
3	Adapter	SONY	AO-UUD12	---	---

Note: The support Laptop was removed from test table after sending command to control EUT to transmit continuously.

1.3 Test Setup Chart



Test Setup Diagram (Charging Mode)



No.	Signal cable / Length (m)
1	USB, 1.8m shielded.

1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Apr. 30, 2026				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Apr. 02, 2026	Apr. 01, 2027
LISN	R&S	ENV216	101579	May 07, 2025	May 06, 2026
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127-666	Apr. 12, 2026	Apr. 11, 2027
RF Cable-CON	EMC	EMCCFD300-BM-B M-6000	50821	Oct. 07, 2025	Oct. 06, 2026
50 ohm terminal	NA	50	01	Jun. 17, 2025	Jun. 16, 2026
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber3 / (03CH03-WS)				
Tested Date	Apr. 23 ~ Apr. 24, 2026				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Apr. 02, 2026	Apr. 01, 2027
Spectrum Analyzer	R&S	FSV3044	101516	Jun. 09, 2025	Jun. 08, 2026
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 17, 2025	Nov. 16, 2026
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-685	Jul. 04, 2025	Jul. 03, 2026
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 19, 2025	Dec. 18, 2026
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 28, 2025	Nov. 27, 2026
Preamplifier	EMC	EMC02325	980225	Jun. 13, 2025	Jun. 12, 2026
Preamplifier	EMC	EMC118A45SE	980898	Jun. 24, 2025	Jun. 23, 2026
Preamplifier	EMC	EMC184045SE	980903	Aug. 08, 2025	Aug. 07, 2026
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 01, 2025	Sep. 30, 2026
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 01, 2025	Sep. 30, 2026
LF cable 11M	EMC	EMCCFD400-NW-N W-11000	200801	Oct. 01, 2025	Sep. 30, 2026
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	160502	Oct. 01, 2025	Sep. 30, 2026
RF Cable	EMC	EMC104-35M-35M- 8000	210920	Oct. 01, 2025	Sep. 30, 2026
RF Cable	EMC	EMC104-35M-35M- 3000	210922	Oct. 01, 2025	Sep. 30, 2026
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Oct. 01, 2025	Sep. 30, 2026
Attenuator	Pasternack	PE7005-10	10-1	Oct. 01, 2025	Sep. 30, 2026
HIGHPASS FILTER	WHK	WHK3.1/18G-10SS	39	Oct. 01, 2025	Sep. 30, 2026
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

47 CFR FCC Part 15.249

ANSI C63.10-2020 + Cor.1-2023

ANSI C63.4-2014 + C63.4a-2017

1.6 Deviation from Test Standard and Measurement Procedure

None

1.7 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ($k=2$)).

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	± 34.130 Hz
AC conducted emission	± 2.92 dB
Unwanted Emission ≤ 1 GHz	± 3.41 dB
Unwanted Emission > 1 GHz	± 4.59 dB

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	CO01-WS, 03CH01-WS
Address of Test Site	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- ISSED#: 10807A
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
AC Power Line Conducted Emissions	Charging	-	-	2
Field Strength of Fundamental	GFSK	2403, 2442, 2481	2Mbps	1
Unwanted Emissions ≤ 1GHz	GFSK	2442	2Mbps	1
	Charging	-	-	2
Unwanted Emissions > 1GHz	GFSK	2403, 2442, 2481	2Mbps	1
20dB bandwidth	GFSK	2403, 2442, 2481	2Mbps	1
NOTE: 1. The test configurations are listed as follows: 1) Mode 1: Battery mode 2) Mode 2: Charging mode				

3 Transmitter Test Results

3.1 Unwanted Emission

This section includes field strength of fundamental, field strength of harmonics and emissions radiated outside of the operating frequency bands.

3.1.1 Limit of field strength of fundamental and field strength of harmonics

Fundamental Frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
2400–2483.5 MHz	50	500

3.1.2 Limit of Unwanted Emissions

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in below table, whichever is the lesser attenuation.

Radiated emission limits			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1:

Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

Note 2:

Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

3.1.3 Test Procedures

1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

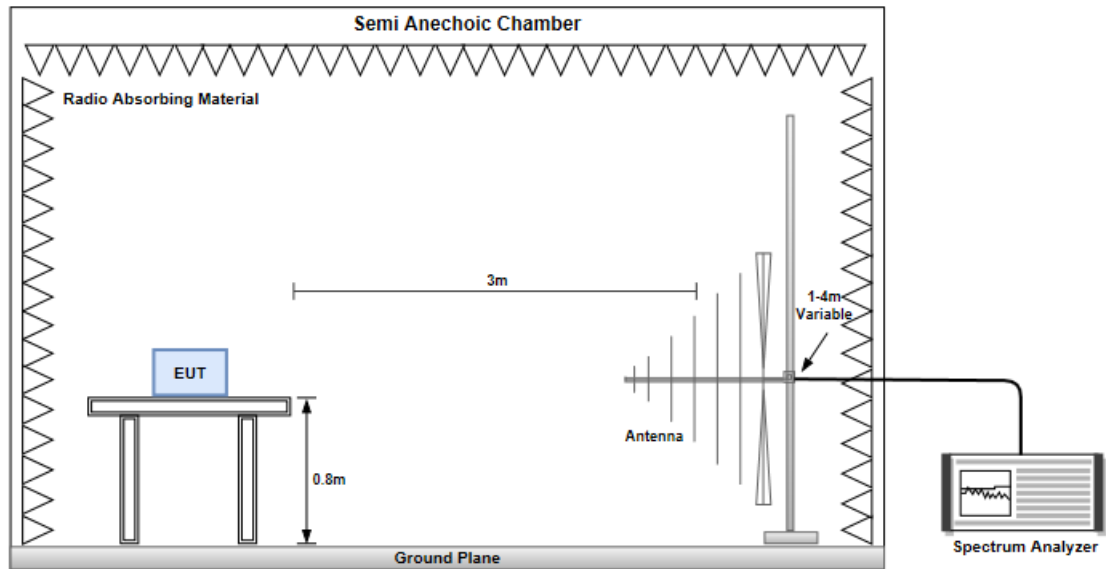
1. Radiated emission below 1GHz
120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission
2. Radiated emission above 1GHz / Peak value except fundamental
RBW=1MHz, VBW=3MHz and Peak detector
3. Radiated emission above 1GHz / Average value for field strength of fundamental and harmonics
The average value is: Average = Peak value + 20log(Duty cycle) Where the duty factor is calculated from following formula:

$$20\log (\text{Duty cycle}) = 20\log \frac{0.095797 \times 401 \text{ ms}}{100 \text{ ms}} = -8.31\text{dB}$$

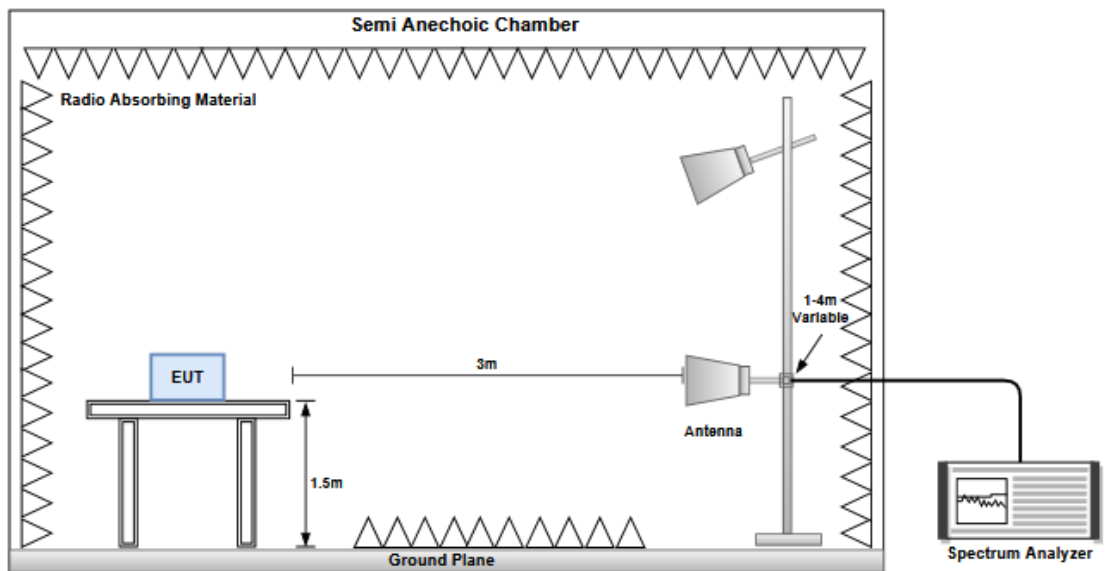
4. Radiated emission above 1GHz / Average value for other emissions
RBW=1MHz, VBW=1/T and Peak detector
5. Radiated emission Peak value for fundamental
RBW=2MHz, VBW=10MHz and Peak detector

3.1.4 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



3.1.5 Test Results

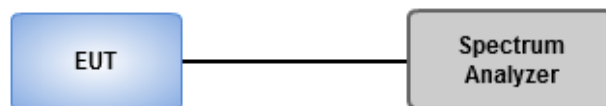
Refer to Appendix A.

3.2 20dB and Occupied Bandwidth

3.2.1 Test Procedures

1. Set resolution bandwidth (RBW) = 30 kHz, Video bandwidth = 100 kHz.
2. Detector = Peak, Trace mode = max hold
3. Sweep = auto couple, Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 20dB relative to the maximum level measured in the fundamental emission.
5. Use the occupied measurement function of spectrum analyzer to measure 99% occupied bandwidth.

3.2.2 Test Setup



3.2.3 Test Results

Ambient Condition	21-24°C / 63-67%	Tested By	Akun Chung
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Refer to Appendix B.

3.3 AC Power Line Conducted Emissions

3.3.1 Limit of AC Power Line Conducted Emissions

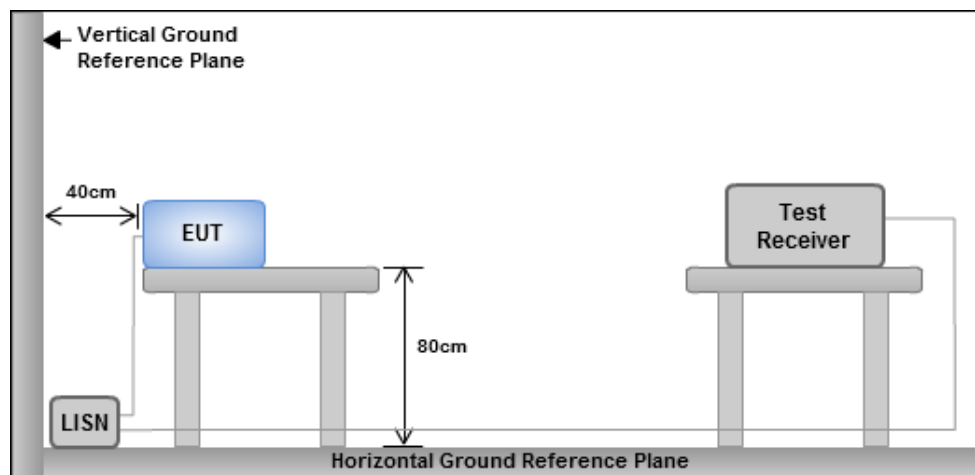
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

3.3.2 Test Procedures

1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50 Ω LISN port.
3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
4. This measurement was performed with AC 120V / 60Hz.

3.3.3 Test Setup



- Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.3.4 Test Results

Refer to Appendix C.

4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <https://www.icertifi.com.tw>.

Linkou

Tel: 886-2-2601-1640

No.30-2, Ding Fwu Tsuen, Lin Kou
District, New Taipei City, Taiwan
(R.O.C.)

Kwei Shan

Tel: 886-3-271-8666

No.3-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)
No.2-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

Kwei Shan Site II

Tel: 886-3-271-8640

No.14-1, Lane 19, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

Zhonghe

Tel: 886-2-2222-0288

1F, No. 6, Jiankang Road, Zhonghe
District, New Taipei City 235045,
Taiwan (R.O.C.)

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666

Fax: 886-3-318-0345

Email: ICC_Service@icertifi.com.tw

==END==



Charging mode

Unwanted Emissions (Below 1GHz)

Mode	Charging mode																																																																														
Polarization	Horizontal																																																																														
Test By :Akun Chung Temperature(°C):22 Humidity(%):63																																																																															
Level (dBuV/m) Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>46.49</td><td>23.07</td><td>40.00</td><td>-16.93</td><td>31.90</td><td>-8.83</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>51.34</td><td>21.75</td><td>40.00</td><td>-18.25</td><td>30.39</td><td>-8.64</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>155.13</td><td>22.03</td><td>43.50</td><td>-21.47</td><td>30.63</td><td>-8.60</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>309.36</td><td>27.37</td><td>46.00</td><td>-18.63</td><td>35.23</td><td>-7.86</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>425.76</td><td>34.79</td><td>46.00</td><td>-11.21</td><td>39.44</td><td>-4.65</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>436.43</td><td>33.19</td><td>46.00</td><td>-12.81</td><td>37.45</td><td>-4.26</td><td>Peak</td><td>---</td><td>---</td></tr></tbody></table>											Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	46.49	23.07	40.00	-16.93	31.90	-8.83	Peak	---	---	2	51.34	21.75	40.00	-18.25	30.39	-8.64	Peak	---	---	3	155.13	22.03	43.50	-21.47	30.63	-8.60	Peak	---	---	4	309.36	27.37	46.00	-18.63	35.23	-7.86	Peak	---	---	5	425.76	34.79	46.00	-11.21	39.44	-4.65	Peak	---	---	6	436.43	33.19	46.00	-12.81	37.45	-4.26	Peak	---	---
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2	51.34	21.75	40.00	-18.25	30.39	-8.64	Peak	---	---																																																																						
3	155.13	22.03	43.50	-21.47	30.63	-8.60	Peak	---	---																																																																						
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m). Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.																																																																															



Mode	Charging mode																																																																														
Polarization	Vertical																																																																														
Test By :Akun Chung Temperature(°C):22 Humidity(%):63																																																																															
Level (dBuV/m) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>45.52</td><td>32.01</td><td>40.00</td><td>-7.99</td><td>40.80</td><td>-8.79</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>91.11</td><td>24.69</td><td>43.50</td><td>-18.81</td><td>39.58</td><td>-14.89</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>122.15</td><td>24.06</td><td>43.50</td><td>-19.44</td><td>35.13</td><td>-11.07</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>133.79</td><td>30.38</td><td>43.50</td><td>-13.12</td><td>40.26</td><td>-9.88</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>155.13</td><td>25.40</td><td>43.50</td><td>-18.10</td><td>34.00</td><td>-8.60</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>430.61</td><td>29.45</td><td>46.00</td><td>-16.55</td><td>33.97</td><td>-4.52</td><td>Peak</td><td>---</td><td>---</td></tr></table>											Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	45.52	32.01	40.00	-7.99	40.80	-8.79	Peak	---	---	2	91.11	24.69	43.50	-18.81	39.58	-14.89	Peak	---	---	3	122.15	24.06	43.50	-19.44	35.13	-11.07	Peak	---	---	4	133.79	30.38	43.50	-13.12	40.26	-9.88	Peak	---	---	5	155.13	25.40	43.50	-18.10	34.00	-8.60	Peak	---	---	6	430.61	29.45	46.00	-16.55	33.97	-4.52	Peak	---	---
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																						
1	45.52	32.01	40.00	-7.99	40.80	-8.79	Peak	---	---																																																																						
2	91.11	24.69	43.50	-18.81	39.58	-14.89	Peak	---	---																																																																						
3	122.15	24.06	43.50	-19.44	35.13	-11.07	Peak	---	---																																																																						
4	133.79	30.38	43.50	-13.12	40.26	-9.88	Peak	---	---																																																																						
5	155.13	25.40	43.50	-18.10	34.00	-8.60	Peak	---	---																																																																						
6	430.61	29.45	46.00	-16.55	33.97	-4.52	Peak	---	---																																																																						
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m). Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.																																																																															



Battery mode

Unwanted Emissions (Below 1GHz)

Modulation	GFSK	Test Freq. (MHz)	2442																																																																						
Polarization	Horizontal																																																																								
Test By :Akun Chung Temperature(°C):22 Humidity(%):63																																																																									
Level (dBuV/m) Frequency (MHz) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>44.55</td><td>21.27</td><td>40.00</td><td>-18.73</td><td>30.24</td><td>-8.97</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>49.40</td><td>21.97</td><td>40.00</td><td>-18.03</td><td>30.68</td><td>-8.71</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>150.28</td><td>21.75</td><td>43.50</td><td>-21.75</td><td>30.43</td><td>-8.68</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>159.01</td><td>21.84</td><td>43.50</td><td>-21.66</td><td>30.59</td><td>-8.75</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>297.72</td><td>22.16</td><td>46.00</td><td>-23.84</td><td>30.39</td><td>-8.23</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>330.70</td><td>24.18</td><td>46.00</td><td>-21.82</td><td>31.30</td><td>-7.12</td><td>Peak</td><td>---</td><td>---</td></tr></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	44.55	21.27	40.00	-18.73	30.24	-8.97	Peak	---	---	2	49.40	21.97	40.00	-18.03	30.68	-8.71	Peak	---	---	3	150.28	21.75	43.50	-21.75	30.43	-8.68	Peak	---	---	4	159.01	21.84	43.50	-21.66	30.59	-8.75	Peak	---	---	5	297.72	22.16	46.00	-23.84	30.39	-8.23	Peak	---	---	6	330.70	24.18	46.00	-21.82	31.30	-7.12	Peak	---	---
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																
1	44.55	21.27	40.00	-18.73	30.24	-8.97	Peak	---	---																																																																
2	49.40	21.97	40.00	-18.03	30.68	-8.71	Peak	---	---																																																																
3	150.28	21.75	43.50	-21.75	30.43	-8.68	Peak	---	---																																																																
4	159.01	21.84	43.50	-21.66	30.59	-8.75	Peak	---	---																																																																
5	297.72	22.16	46.00	-23.84	30.39	-8.23	Peak	---	---																																																																
6	330.70	24.18	46.00	-21.82	31.30	-7.12	Peak	---	---																																																																
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m). Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.																																																																									



Modulation	GFSK	Test Freq. (MHz)	2442
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):22 Humidity(%):63			
Level (dBuV/m)			

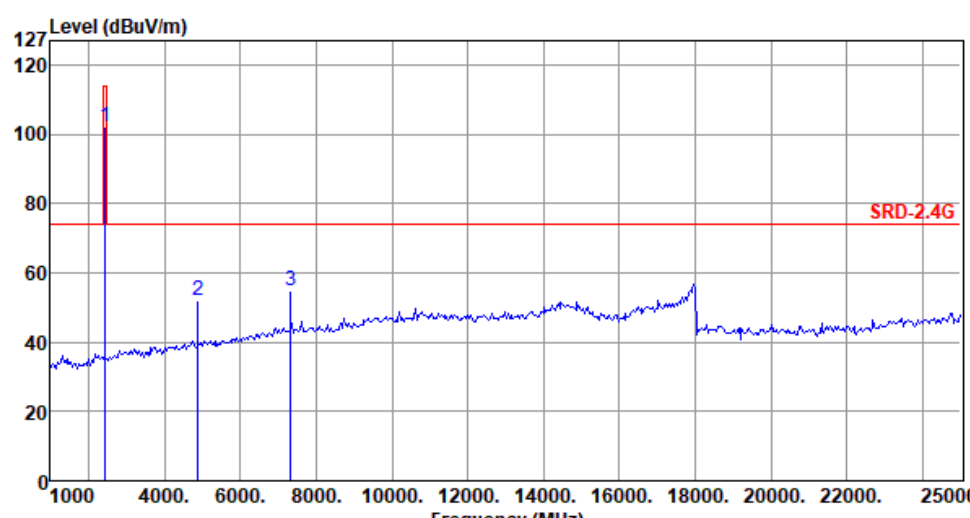
Unwanted Emissions (Above 1GHz)

Modulation	GFSK	Test Freq. (MHz)	2403
Polarization	Horizontal		
Test By :Akun Chung_ Temperature(°C):21 Humidity(%):67			
Level (dBuV/m)			



Modulation	GFSK	Test Freq. (MHz)	2403
Polarization	Vertical		
Test By :Akun Chung_ Temperature(°C):21 Humidity(%):67			
Level (dBuV/m)			



Modulation	GFSK	Test Freq. (MHz)	2442																																								
Polarization	Horizontal-Peak Value																																										
Test By :Akun Chung_ Temperature(°C):21 Humidity(%):67																																											
Level (dBUV/m)  <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBUV/m</th><th>Limit dBUV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>2442.00</td><td>101.93</td><td>114.00</td><td>-12.07</td><td>105.55</td><td>-3.62</td><td>Peak</td><td>177</td><td>176</td></tr><tr><td>2</td><td>4884.00</td><td>52.16</td><td>74.00</td><td>-21.84</td><td>51.12</td><td>1.04</td><td>Peak</td><td>112</td><td>139</td></tr><tr><td>3</td><td>7326.00</td><td>55.05</td><td>74.00</td><td>-18.95</td><td>48.22</td><td>6.83</td><td>Peak</td><td>302</td><td>19</td></tr></table>					Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	2442.00	101.93	114.00	-12.07	105.55	-3.62	Peak	177	176	2	4884.00	52.16	74.00	-21.84	51.12	1.04	Peak	112	139	3	7326.00	55.05	74.00	-18.95	48.22	6.83	Peak	302	19
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																		
1	2442.00	101.93	114.00	-12.07	105.55	-3.62	Peak	177	176																																		
2	4884.00	52.16	74.00	-21.84	51.12	1.04	Peak	112	139																																		
3	7326.00	55.05	74.00	-18.95	48.22	6.83	Peak	302	19																																		
Note 1: Emission Level (dBUV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m). Note 3: When average value is calculated not measured, no SA reading and factor value are listed.																																											

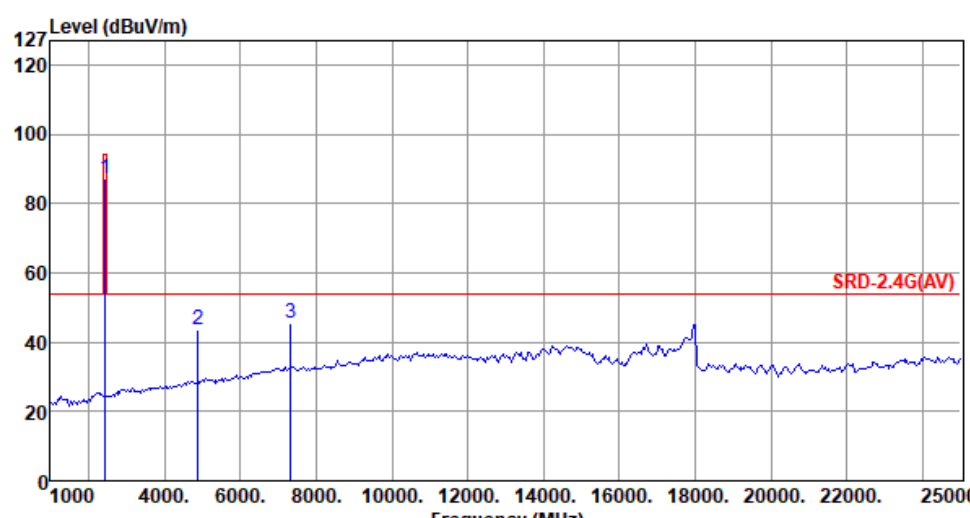


Modulation	GFSK	Test Freq. (MHz)	2442																											
Polarization	Horizontal-Average Value																													
Test By :Akun Chung_ Temperature(°C):21 Humidity(%):67																														
Level (dBuV/m) 127 120 100 80 60 40 20 0 1 2 3 1000 4000. 6000. 8000. 10000. 12000. 14000. 16000. 18000. 20000. 22000. 25000 SRD-2.4G(AV) Freq. Emission level Limit Margin SA reading Factor Remark ANT High Turn Table MHz dBuV/m dBuV/m dB dBuV dB/m cm deg <table><tr><td>1</td><td>2442.00</td><td>93.62</td><td>94.00</td><td>-0.38</td><td></td><td>Average</td><td>177</td><td>176</td></tr><tr><td>2</td><td>4884.00</td><td>43.85</td><td>54.00</td><td>-10.15</td><td></td><td>Average</td><td>112</td><td>139</td></tr><tr><td>3</td><td>7326.00</td><td>46.74</td><td>54.00</td><td>-7.26</td><td></td><td>Average</td><td>302</td><td>19</td></tr></table>				1	2442.00	93.62	94.00	-0.38		Average	177	176	2	4884.00	43.85	54.00	-10.15		Average	112	139	3	7326.00	46.74	54.00	-7.26		Average	302	19
1	2442.00	93.62	94.00	-0.38		Average	177	176																						
2	4884.00	43.85	54.00	-10.15		Average	112	139																						
3	7326.00	46.74	54.00	-7.26		Average	302	19																						
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m). Note 3: When average value is calculated not measured, no SA reading and factor value are listed.																														



Modulation	GFSK	Test Freq. (MHz)	2442
Polarization	Vertical-Peak Value		
Test By :Akun Chung_ Temperature(°C):21 Humidity(%):67			
Level (dBUV/m)			



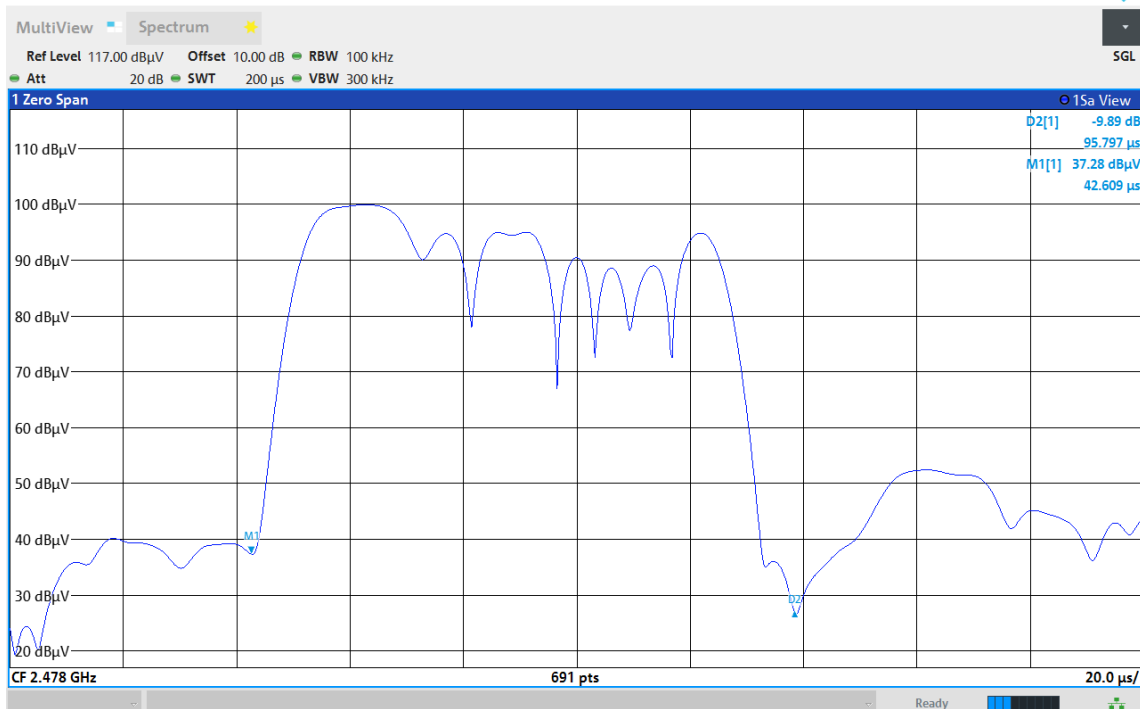
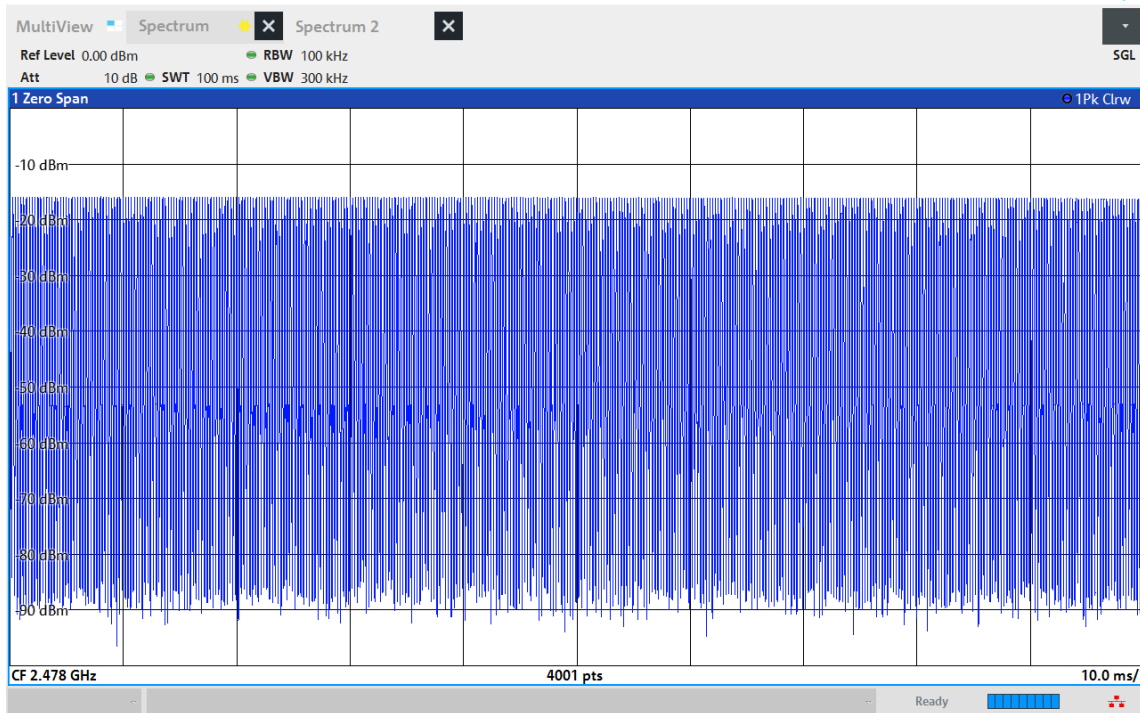
Modulation	GFSK	Test Freq. (MHz)	2442																																								
Polarization	Vertical -Average Value																																										
Test By :Akun Chung_ Temperature(°C):21 Humidity(%):67																																											
Level (dBUV/m)  Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBUV/m</th><th>Limit dBUV/m</th><th>Margin dB</th><th>SA reading dBUV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>2442.00</td><td>87.05</td><td>94.00</td><td>-6.95</td><td></td><td></td><td>Average</td><td>317</td><td>61</td></tr><tr><td>2</td><td>4884.00</td><td>43.54</td><td>54.00</td><td>-10.46</td><td></td><td></td><td>Average</td><td>309</td><td>342</td></tr><tr><td>3</td><td>7326.00</td><td>45.63</td><td>54.00</td><td>-8.37</td><td></td><td></td><td>Average</td><td>314</td><td>299</td></tr></tbody></table>					Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	2442.00	87.05	94.00	-6.95			Average	317	61	2	4884.00	43.54	54.00	-10.46			Average	309	342	3	7326.00	45.63	54.00	-8.37			Average	314	299
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																		
1	2442.00	87.05	94.00	-6.95			Average	317	61																																		
2	4884.00	43.54	54.00	-10.46			Average	309	342																																		
3	7326.00	45.63	54.00	-8.37			Average	314	299																																		
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m). Note 3: When average value is calculated not measured, no SA reading and factor value are listed.																																											



Modulation	GFSK	Test Freq. (MHz)	2481
Polarization	Horizontal		
Test By :Akun Chung_ Temperature(°C):21 Humidity(%):67			
Level (dBUV/m)			



Modulation	GFSK	Test Freq. (MHz)	2481
Polarization	Vertical		
Test By :Akun Chung_ Temperature(°C):21 Humidity(%):67			
Level (dBUV/m)			



$$20\log (\text{Duty cycle}) = 20\log \frac{0.095797 \times 401 \text{ ms}}{100 \text{ ms}} = -8.31\text{dB}$$



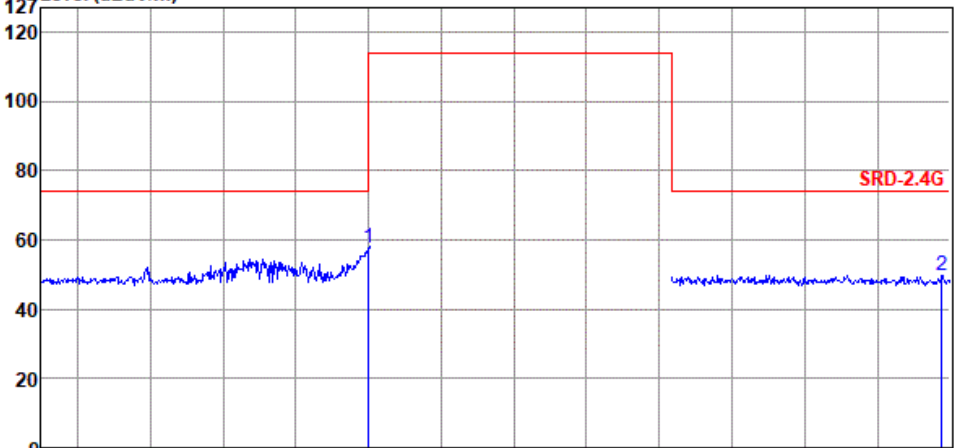
Modulation	GFSK	Test Freq. (MHz)	2403
Polarization	Horizontal-Peak Value		

Test By :Akun Chung_

Temperature(°C):21

Humidity(%):67

Level (dBuV/m)



Frequency (MHz)

	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2400.00	57.59	74.00	-16.41	61.05	-3.46	Peak	108	194
2	2557.75	49.79	74.00	-24.21	53.25	-3.46	Peak	108	194

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	GFSK	Test Freq. (MHz)	2403
Polarization	Horizontal-Average Value		
Test By :Akun Chung_ Temperature(°C):21 Humidity(%):67			
Level (dBuV/m)			

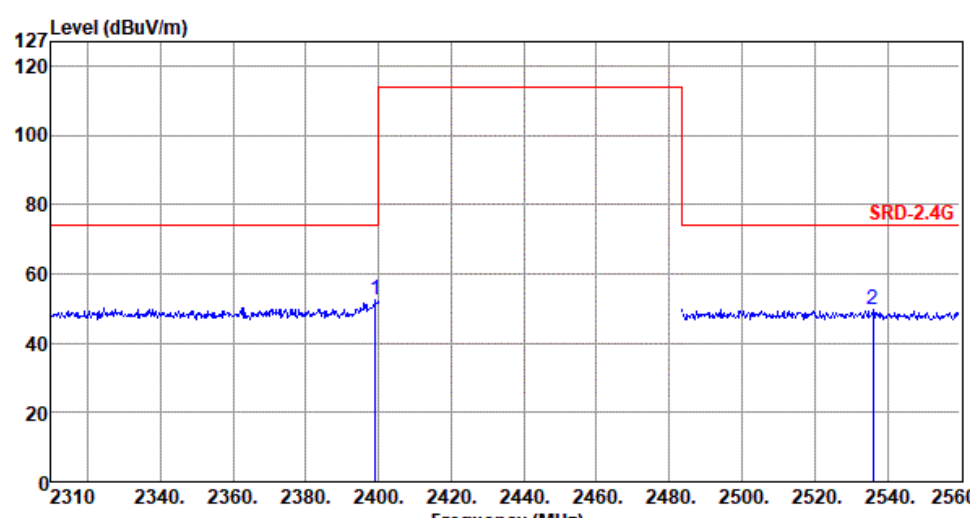


Modulation	GFSK	Test Freq. (MHz)	2403
Polarization	Vertical-Peak Value		

Test By :Akun Chung_

Temperature(°C):21

Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2399.25	52.56	74.00	-21.44	56.02	-3.46	Peak	309	145
2	2536.00	49.86	74.00	-24.14	53.37	-3.51	Peak	309	145

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Band Edge measurement

Appendix A.2

Modulation	GFSK	Test Freq. (MHz)	2403
Polarization	Vertical -Average Value		
Test By :Akun Chung_ Temperature(°C):21 Humidity(%):67			
Level (dBUV/m) </			



Modulation	GFSK	Test Freq. (MHz)	2442
Polarization	Horizontal-Peak Value		
Test By :Akun Chung_ Temperature(°C):21 Humidity(%):67			
Level (dBuV/m) </			



Modulation	GFSK	Test Freq. (MHz)	2442
Polarization	Horizontal-Average Value		
Test By :Akun Chung_ Temperature(°C):21 Humidity(%):67			
Level (dBuV/m)			



Modulation	GFSK	Test Freq. (MHz)	2442																														
Polarization	Vertical-Peak Value																																
Test By :Akun Chung_ Temperature(°C):21 Humidity(%):67																																	
Level (dBuV/m) Frequency (MHz) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>2342.50</td><td>50.31</td><td>74.00</td><td>-23.69</td><td>53.47</td><td>-3.16</td><td>Peak</td><td>301</td><td>152</td></tr><tr><td>2</td><td>2510.75</td><td>50.27</td><td>74.00</td><td>-23.73</td><td>53.82</td><td>-3.55</td><td>Peak</td><td>301</td><td>152</td></tr></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	2342.50	50.31	74.00	-23.69	53.47	-3.16	Peak	301	152	2	2510.75	50.27	74.00	-23.73	53.82	-3.55	Peak	301	152
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																								
1	2342.50	50.31	74.00	-23.69	53.47	-3.16	Peak	301	152																								
2	2510.75	50.27	74.00	-23.73	53.82	-3.55	Peak	301	152																								
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor, cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).																																	



Modulation	GFSK	Test Freq. (MHz)	2442
Polarization	Vertical -Average Value		
Test By :Akun Chung_ Temperature(°C):21 Humidity(%):67			
Level (dBUV/m)			



Modulation	GFSK	Test Freq. (MHz)	2481
Polarization	Horizontal-Peak Value		
Test By :Akun Chung_ Temperature(°C):21 Humidity(%):67			
Level (dBuV/m) </			



Modulation	GFSK	Test Freq. (MHz)	2481
Polarization	Horizontal-Average Value		
Test By :Akun Chung_ Temperature(°C):21 Humidity(%):67			
Level (dBuV/m) </			



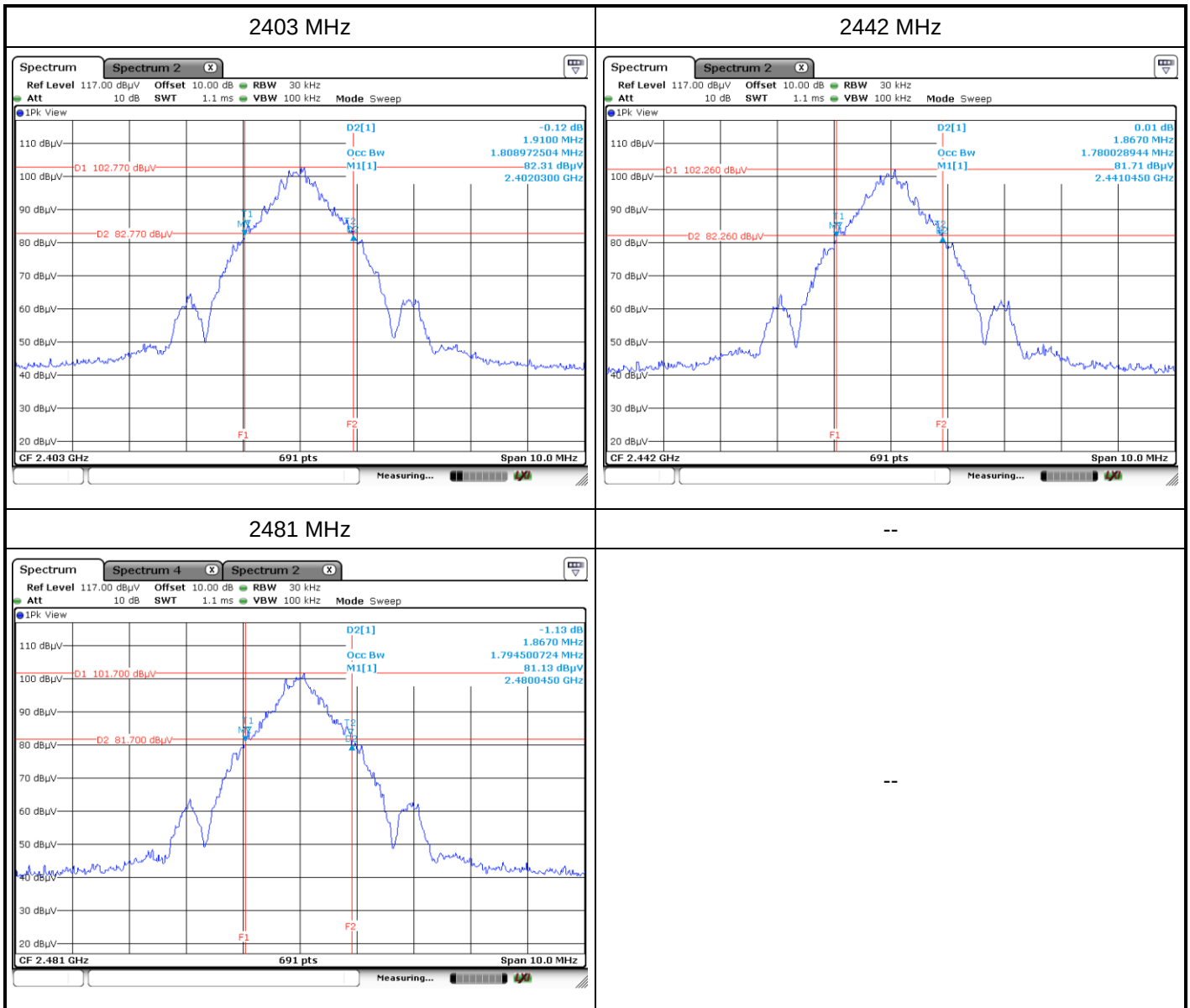
Modulation	GFSK	Test Freq. (MHz)	2481																														
Polarization	Vertical-Peak Value																																
Test By :Akun Chung_ Temperature(°C):21 Humidity(%):67																																	
Level (dBuV/m) Frequency (MHz) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>2346.50</td><td>49.62</td><td>74.00</td><td>-24.38</td><td>52.79</td><td>-3.17</td><td>Peak</td><td>323</td><td>309</td></tr><tr><td>2</td><td>2483.50</td><td>54.61</td><td>74.00</td><td>-19.39</td><td>58.15</td><td>-3.54</td><td>Peak</td><td>323</td><td>309</td></tr></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	2346.50	49.62	74.00	-24.38	52.79	-3.17	Peak	323	309	2	2483.50	54.61	74.00	-19.39	58.15	-3.54	Peak	323	309
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																								
1	2346.50	49.62	74.00	-24.38	52.79	-3.17	Peak	323	309																								
2	2483.50	54.61	74.00	-19.39	58.15	-3.54	Peak	323	309																								
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor, cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).																																	



Modulation	GFSK	Test Freq. (MHz)	2481
Polarization	Vertical -Average Value		
Test By :Akun Chung_ Temperature(°C):21 Humidity(%):67			
Level (dBuV/m) </			



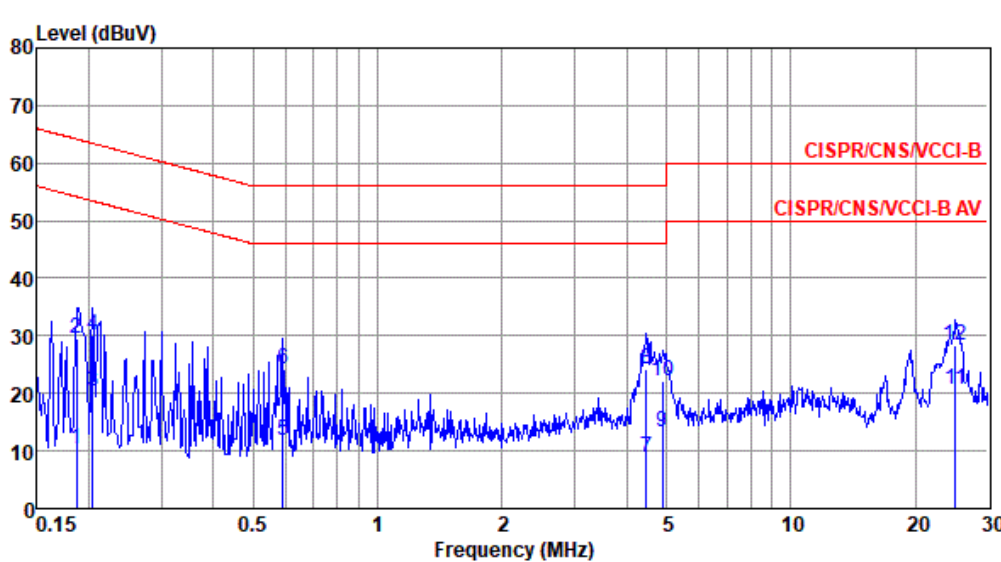
Frequency (MHz)	20dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
2403	1.910	1.809
2442	1.867	1.780
2481	1.867	1.795



Mode	Charging mode
Power Phase	Line

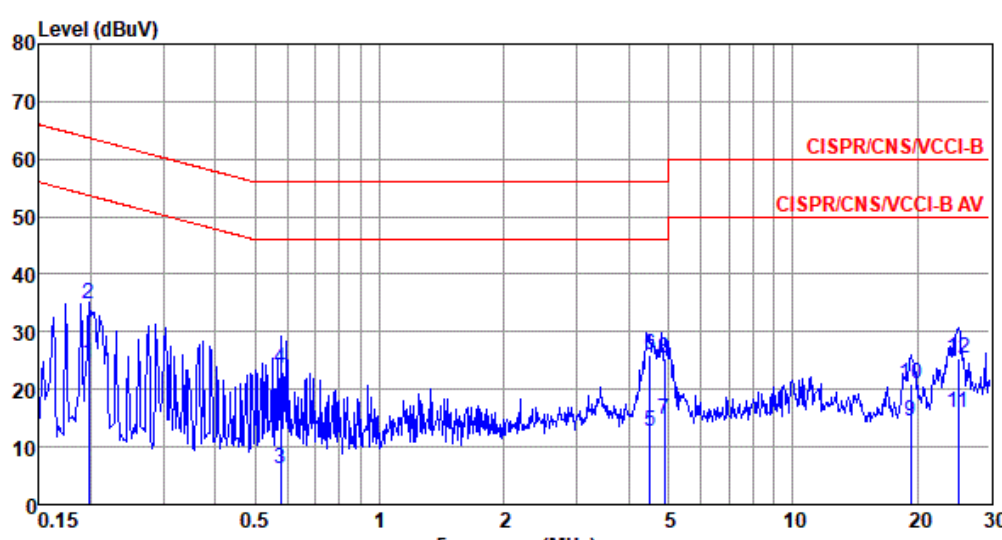
Temperature: 24°C Humidity: 65%

Test by : Akun Chung



	Freq MHz	Level dBUV	Limit Line dBUV	Over Limit dB	Read Level dBUV	LISN factor dB	cable loss dB	Remark
1	0.186	10.35	54.20	-43.85	0.51	9.64	0.04	Average
2	0.186	29.53	64.20	-34.67	19.69	9.64	0.04	QP
3	0.204	20.42	53.45	-33.03	10.58	9.64	0.04	Average
4	0.204	30.05	63.45	-33.40	20.21	9.64	0.04	QP
5	0.589	11.78	46.00	-34.22	1.84	9.64	0.05	Average
6	0.589	24.23	56.00	-31.77	14.29	9.64	0.05	QP
7	4.478	8.99	46.00	-37.01	-1.41	9.68	0.16	Average
8	4.478	24.11	56.00	-31.89	13.71	9.68	0.16	QP
9	4.900	13.20	46.00	-32.80	2.79	9.68	0.17	Average
10	4.900	22.15	56.00	-33.85	11.74	9.68	0.17	QP
11*	25.055	20.59	50.00	-29.41	9.88	9.66	0.30	Average
12	25.055	28.47	60.00	-31.53	17.76	9.66	0.30	QP

Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBUV) – Limit Line (dBUV).

Mode	Charging mode																																																																																																																																							
Power Phase	Neutral																																																																																																																																							
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<table><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Read</th><th>LISN</th><th>cable</th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV</th><th>Line</th><th>Limit</th><th>Level</th><th>factor</th><th>loss</th><th>Remark</th></tr><tr><th></th><th></th><th></th><th>dBuV</th><th>dB</th><th>dBuV</th><th>dB</th><th>dB</th><th></th></tr><tr><td>1</td><td>0.198</td><td>24.62</td><td>53.71</td><td>-29.09</td><td>14.64</td><td>9.64</td><td>0.04</td><td>Average</td></tr><tr><td>2*</td><td>0.198</td><td>34.84</td><td>63.71</td><td>-28.87</td><td>24.86</td><td>9.64</td><td>0.04</td><td>QP</td></tr><tr><td>3</td><td>0.576</td><td>6.15</td><td>46.00</td><td>-39.85</td><td>-3.92</td><td>9.63</td><td>0.05</td><td>Average</td></tr><tr><td>4</td><td>0.576</td><td>23.48</td><td>56.00</td><td>-32.52</td><td>13.41</td><td>9.63</td><td>0.05</td><td>QP</td></tr><tr><td>5</td><td>4.501</td><td>12.62</td><td>46.00</td><td>-33.38</td><td>2.20</td><td>9.67</td><td>0.16</td><td>Average</td></tr><tr><td>6</td><td>4.501</td><td>25.88</td><td>56.00</td><td>-30.12</td><td>15.46</td><td>9.67</td><td>0.16</td><td>QP</td></tr><tr><td>7</td><td>4.900</td><td>14.85</td><td>46.00</td><td>-31.15</td><td>4.42</td><td>9.67</td><td>0.17</td><td>Average</td></tr><tr><td>8</td><td>4.900</td><td>25.50</td><td>56.00</td><td>-30.50</td><td>15.07</td><td>9.67</td><td>0.17</td><td>QP</td></tr><tr><td>9</td><td>19.326</td><td>14.58</td><td>50.00</td><td>-35.42</td><td>3.78</td><td>9.79</td><td>0.30</td><td>Average</td></tr><tr><td>10</td><td>19.326</td><td>20.83</td><td>60.00</td><td>-39.17</td><td>10.03</td><td>9.79</td><td>0.30</td><td>QP</td></tr><tr><td>11</td><td>25.188</td><td>16.01</td><td>50.00</td><td>-33.99</td><td>5.07</td><td>9.79</td><td>0.30</td><td>Average</td></tr><tr><td>12</td><td>25.188</td><td>25.36</td><td>60.00</td><td>-34.64</td><td>14.42</td><td>9.79</td><td>0.30</td><td>QP</td></tr></table>			Freq	Level	Limit	Over	Read	LISN	cable			MHz	dBuV	Line	Limit	Level	factor	loss	Remark				dBuV	dB	dBuV	dB	dB		1	0.198	24.62	53.71	-29.09	14.64	9.64	0.04	Average	2*	0.198	34.84	63.71	-28.87	24.86	9.64	0.04	QP	3	0.576	6.15	46.00	-39.85	-3.92	9.63	0.05	Average	4	0.576	23.48	56.00	-32.52	13.41	9.63	0.05	QP	5	4.501	12.62	46.00	-33.38	2.20	9.67	0.16	Average	6	4.501	25.88	56.00	-30.12	15.46	9.67	0.16	QP	7	4.900	14.85	46.00	-31.15	4.42	9.67	0.17	Average	8	4.900	25.50	56.00	-30.50	15.07	9.67	0.17	QP	9	19.326	14.58	50.00	-35.42	3.78	9.79	0.30	Average	10	19.326	20.83	60.00	-39.17	10.03	9.79	0.30	QP	11	25.188	16.01	50.00	-33.99	5.07	9.79	0.30	Average	12	25.188	25.36	60.00	-34.64	14.42	9.79	0.30	QP
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Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).																																																																																																																																								
2: Over Limit (dB) = Level (dBUV) – Limit Line (dBUV).																																																																																																																																								