

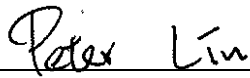
ISED Test Report

Equipment : Bluetooth BT5.4 Dual Model Module
Model No. : Vela IF820
Brand Name : Laird Connectivity
Applicant : Laird Connectivity LLC
Address : W66N220 Commerce Court, Cedarburg, WI
53012 United States Of America
Standard : ICES-003 Issue 7, Class B
Received Date : Apr. 18, 2023
Tested Date : Jun. 15 ~ Jun. 16, 2023

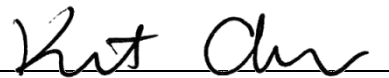
We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the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

Reviewed by:

Approved by:



Peter Lin / Assistant Manager



Kent Chen / Manager

Table of Contents

1	GENERAL DESCRIPTION	5
1.1	Information.....	5
1.2	Test Equipment and Calibration Data	6
1.3	Testing Applied Standards	7
1.4	Deviation from Test Standard and Measurement Procedure.....	7
1.5	Measurement Uncertainty	7
2	TEST CONFIGURATION.....	8
2.1	Testing Facility	8
2.2	The Worst Case Measurement Configuration.....	8
2.3	Local Support Equipment List	9
2.4	Test Setup Chart	9
2.5	Test Software and Operating Condition	10
3	EMISSION TESTS RESULTS	11
3.1	Conducted Emissions.....	11
3.2	Radiated Emissions.....	13
4	TEST LABORATORY INFORMATION	16
 Appendix A. Conducted Emissions		
Appendix B. Radiated Emissions below 1GHz		
Appendix C. Radiated Emissions above 1GHz		
Appendix D. Test Photos		

Release Record

Report No.	Version	Description	Issued Date
CI341801	Rev. 01	Initial issue	Sep. 19, 2023

Summary of Test Results

ICES-003 Emission Tests				
Ref. Std. Clause	Test Standard	Test Items	Measured	Result
3.2.1	ICES-003 Issue 7, Class B	Conducted Emissions	Under limit 15.98dB @ 0.156MHz.	Pass
3.2.2	ICES-003 Issue 7, Class B	Radiated Emissions	Under limit 8.34dB @ 421.3MHz.	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.

1 General Description

1.1 Information

The EUT is available in SA module (integrated antenna) and SC module (IPEX MHF4 connector) variants.

Model Name	Part No.	Module
Vela IF820	453-00171	SA Module, Vela IF820, Integrated Antenna
	453-00172	SC Module, Vela IF820, MHF4

1.1.1 Feature of Equipment under Test (EUT)

Power Supply Type	3Vdc from host
Highest Frequency of the Internal Sources	2.48GHz

1.1.2 Antenna Details

Ant. No.	Manufacturer	Model	Laird Part Number	Type	Connector	Gain
1	Laird	NanoBlue	EBL2400A1-10M H4L	PCB Dipole	IPEX MHF4	2dBi
2	Laird	FlexPIFA	001-0022	PCB Dipole	IPEX MHF4	2dBi
3	Mag.Layers	EDA-8709-2G4C 1-B27-CY	0600-00057	Dipole	IPEX MHF4	2.32dBi
4	Laird	mFlexPIFA	EFA2400A3S-10 MH4L	PIFA	IPEX MHF4	2dBi
5	ACX	AD1608	AD1608-A2455A AT/LF	Chip Antenna	N/A	1dBi

1.1.3 Accessories

N/A

1.2 Test Equipment and Calibration Data

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Test Date	Jun. 15, 2023				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101658	Feb. 17, 2023	Feb. 16, 2024
LISN	R&S	ENV216	101579	May 09, 2023	May 08, 2024
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127667	Jan. 03, 2023	Jan. 02, 2024
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 17, 2022	Oct. 16, 2023
50 ohm terminal (Support Unit)	NA	50	01	Jun. 14, 2023	Jun. 13, 2024
Measurement Software	Sporton	SENSE-EMI	V5.10.8.7	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission below 1GHz				
Test Site	966 chamber 2 / (03CH02-WS)				
Test Date	Jun. 16, 2023				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	Agilent	N9038A	MY53290044	Sep. 12, 2022	Sep. 11, 2023
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-562	May 17, 2023	May 16, 2024
Preamplifier	EMC	EMC02325	980194	Sep. 15, 2022	Sep. 14, 2023
LF cable 1M	EMC	EMCCFD400-NM-NM-1000	160501	Oct. 05, 2022	Oct. 04, 2023
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-003	Oct. 05, 2022	Oct. 04, 2023
LF cable 10M	EMC	CFD400-E	CFD400-001	Oct. 05, 2022	Oct. 04, 2023
Measurement Software	Sporton	SENSE-EMI	V5.10.8.7	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission above 1GHz				
Test Site	966 chamber 2 / (03CH02-WS)				
Test Date	Jun. 16, 2023				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101498	Nov. 21, 2022	Nov. 20, 2023
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1095	Sep. 16, 2022	Sep. 15, 2023
Preamplifier	Agilent	83017A	MY39501309	Sep. 05, 2022	Sep. 04, 2023
RF Cable	EMC	EMC105-SM-SM-8000	180512	Oct. 05, 2022	Oct. 04, 2023
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16018/4	Oct. 05, 2022	Oct. 04, 2023
Measurement Software	Sporton	SENSE-EMI	V5.10.8.7	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.3 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

ICES-003 Issue 7, Class B

ANSI C63.4-2014 amended as per ANSI C63.4a-2017

1.4 Deviation from Test Standard and Measurement Procedure

None

1.5 Measurement Uncertainty

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

Measurement Uncertainty		
Test Item	Frequency	Uncertainty
Conducted Emissions	150kHz ~ 30MHz	± 2.92 dB
Radiated Emissions	30MHz ~ 1GHz	± 4.32 dB
	Above 1GHz	± 4.9 dB

Note: The results of measurements of emissions shall reference the measurement uncertainty considerations contained in CISPR 16-4-2.

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	CO01-WS, 03CH02-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.)

2.2 The Worst Case Measurement Configuration

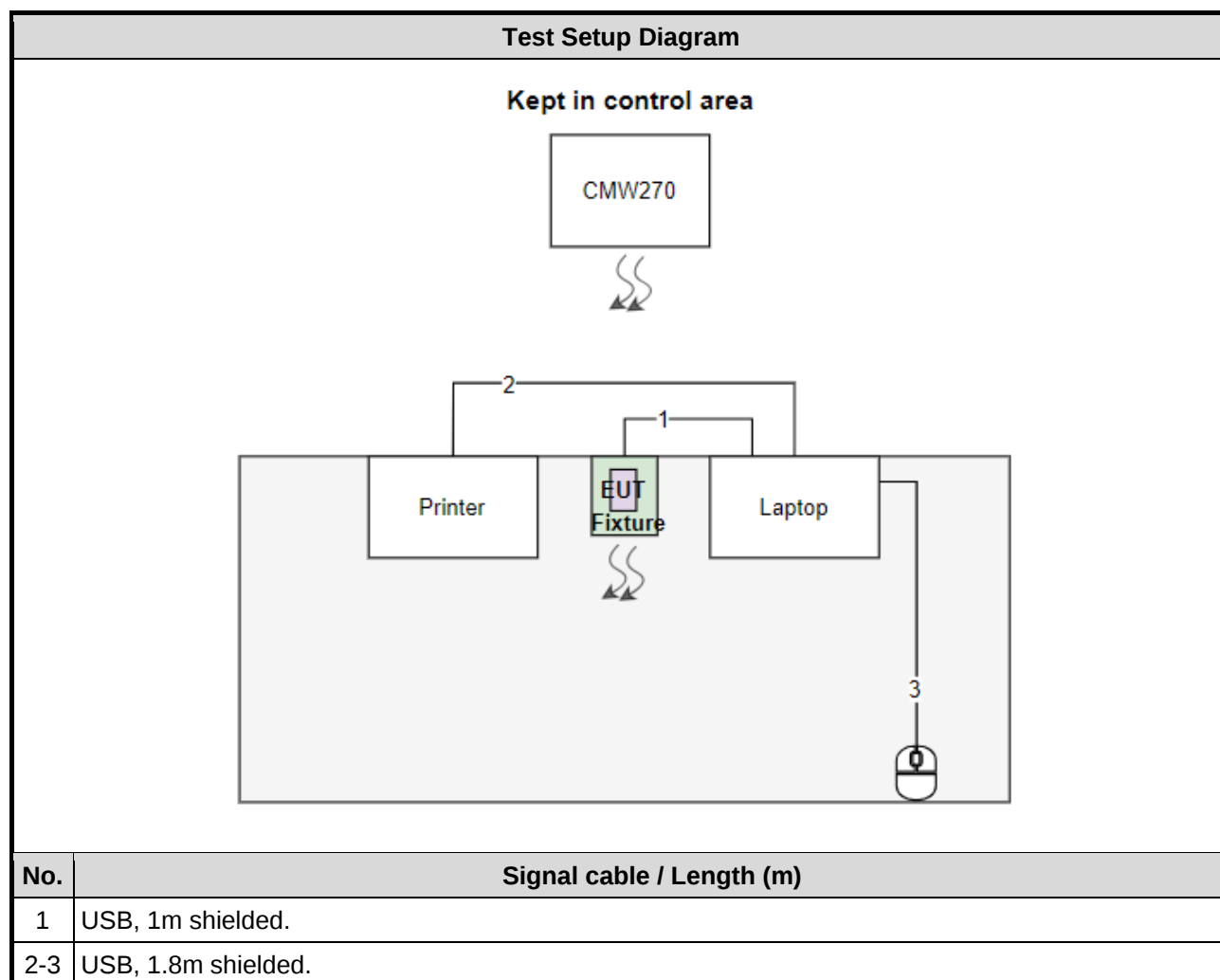
Radiation Pretest Mode	
Pretest Mode	Operating Description
1	EUT(SC Module): X-axis, Ant.: NanoBlue, BT link, w/ laptop 120V/60Hz
2	EUT(SC Module): Y-axis, Ant.: NanoBlue, BT link, w/ laptop 120V/60Hz
3	EUT(SC Module): Z-axis, Ant.: NanoBlue, BT link, w/ laptop 120V/60Hz
4	EUT(SC Module): Y-axis, Ant.: FlexPIFA, BT link, w/ laptop 120V/60Hz
5	EUT(SC Module): Y-axis, Ant.: EDA-8709-2G4C1-B27-CY, BT link, w/ laptop 120V/60Hz
6	EUT(SC Module): Y-axis, Ant.: mFlexPIFA, BT link, w/ laptop 120V/60Hz
7	EUT(SA Module): Y-axis, Ant.: AD1608, BT link, w/ laptop 120V/60Hz
For Pretest Mode 5 is the worst case and only its data was record in this test report.	

The Determined Worst Case Configurations	
Conducted Emissions	
Test Mode	Operating Description
1	EUT(SC Module): X-axis, Ant.: EDA-8709-2G4C1-B27-CY, BT link, w/ laptop 120V/60Hz
Radiated Emissions	
Test Mode ≤ 1GHz	Operating Description
1	EUT(SC Module): Y-axis, Ant.: EDA-8709-2G4C1-B27-CY, BT link, w/ laptop 120V/60Hz
Test Mode > 1GHz	Operating Description
1	EUT(SC Module): Y-axis, Ant.: EDA-8709-2G4C1-B27-CY, BT link, w/ laptop 120V/60Hz

2.3 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	S/N	Remarks
1	Wireless connectivity tester	R&S	CMW270	100856	---
2	Laptop	DELL	Latitude 3400	HKZLWZ2	---
3	Mouse	DELL	MS111-L	2C3-00MM	---
4	Printer	EPSON	XP-30	QSDK002410	---
5	Fixture	---	---	---	Provided by applicant.

2.4 Test Setup Chart



2.5 Test Software and Operating Condition

- a. The support laptop executes “WinEMC.exe” to send “H” patterns to its monitor and the monitor displayed them.
- b. The support laptop executes “WinEMC.exe” to send “H” patterns to the printer.
- c. The support laptop executes ping command for BT link to CMW270.

3 Emission Tests Results

3.1 Conducted Emissions

3.1.1 Limit of Conducted Emissions

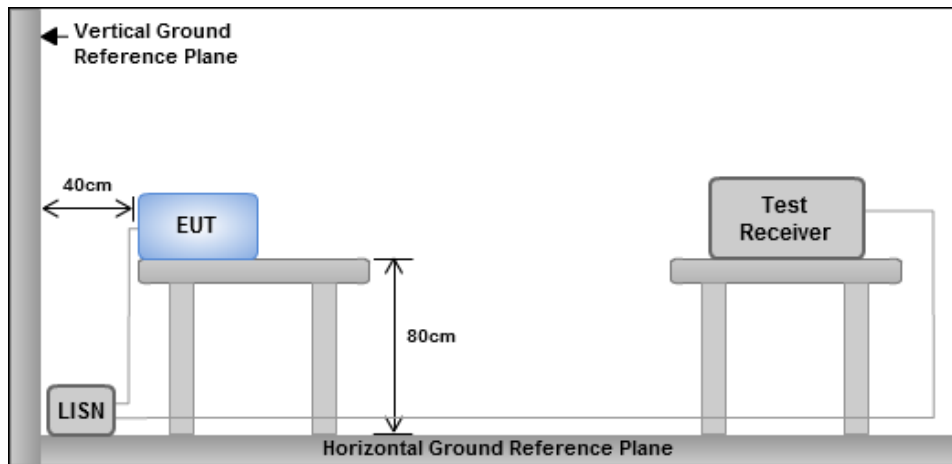
Frequency Range (MHz)	Class A Quasi-Peak (dBuV)	Class A Average (dBuV)	Class B Quasi-Peak (dBuV)	Class B Average (dBuV)
0.15 – 0.5	79	66	66 to 56 ⁱ	56 to 46 ⁱ
0.5 – 5	73	60	56	46
5 – 30	73	60	60	50

Note: The more stringent limit applies at transition frequencies.
i. The limit level in dBuV decreases linearly with the logarithm of frequency.

3.1.2 Test Procedures

- The EUT was placed on a table with a height of 0.8 meters from the metal ground plane and 0.4 meters from the conducting wall of the shielding room and it was kept at least 0.8 meters from any other grounded conducting surface.
- The test equipment EUT installed received DC power through a Line Impedance Stabilization Network (LISN), which supplied power source and was grounded to the ground plane.
- All the support units were connected to the other LISN.
- The LISN provides 50 ohm coupling impedance for the measuring instrument.
- The CISPR states that a 50 ohm, 50 microhenry LISN should be used.
- Both sides of AC line were checked for maximum conducted interference.
- The measurement frequency range extends from 150 kHz to 30 MHz.
- Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

3.1.3 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

3.1.4 Test Results

Refer to Appendix A.

3.2 Radiated Emissions

3.2.1 Limit of Radiated Emissions

Radiated emissions limits (30 MHz to 1 GHz) at 3 m distance

Frequency range (MHz)	Class A Quasi-peak (dBuV/m)	Class B Quasi-peak (dBuV/m)
30 – 88	50.0	40.0
88 – 216	54.0	43.5
216 – 230	56.9	46.0
230 – 960	57.0	47.0
960 – 1000	60.0	54.0

Note: The more stringent limit applies at transition frequencies.

Required emission limits at 3 m distance (at and above 1 GHz)

Frequency range (GHz) ⁱ	Class A Average dB(μV/m)	Class A Peak dB(μV/m)	Class B Average dB(μV/m)	Class B Peak dB(μV/m)
1 – F _M	60	80	54	74

i. The highest measurement frequency, F_M in GHz, shall be determined as per table above.

Required highest measurement frequency for radiated emissions:

Highest internal frequency (F _x) ⁱ	Highest measurement frequency (F _M)
F _x ≤ 108 MHz	1 GHz
108 MHz < F _x ≤ 500 MHz	2 GHz
500 MHz < F _x ≤ 1 GHz	5 GHz
F _x > 1 GHz	5 x F _x up to maximum of 40GHz

i. F_x is the highest fundamental frequency generated and/or used in the ITE or digital apparatus under test.

3.2.2 Test Procedures

Measuring below 1 GHz:

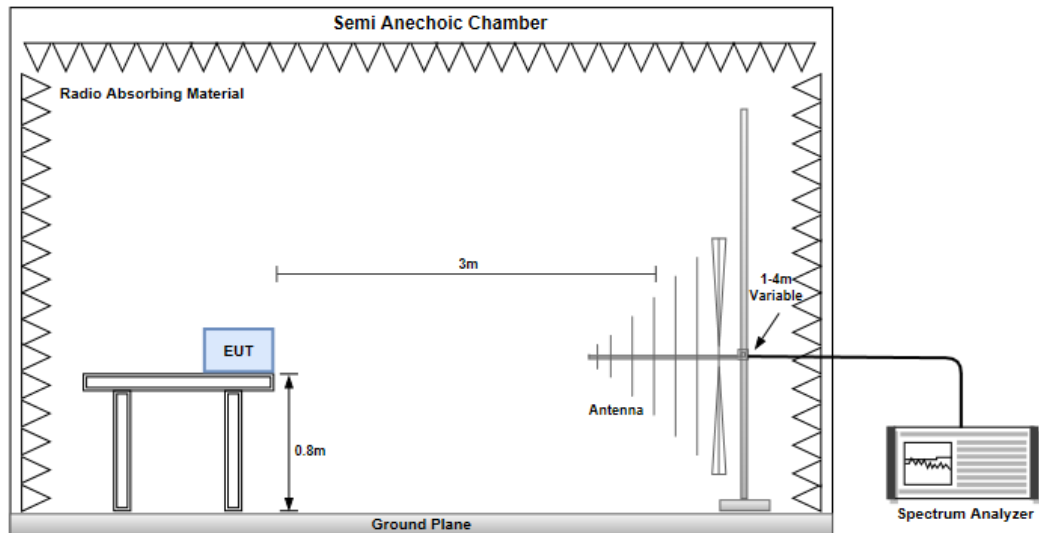
- a. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at a height of 0.8 m test table above the ground plane.
- b. 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.
- c. 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.

Measuring above 1 GHz:

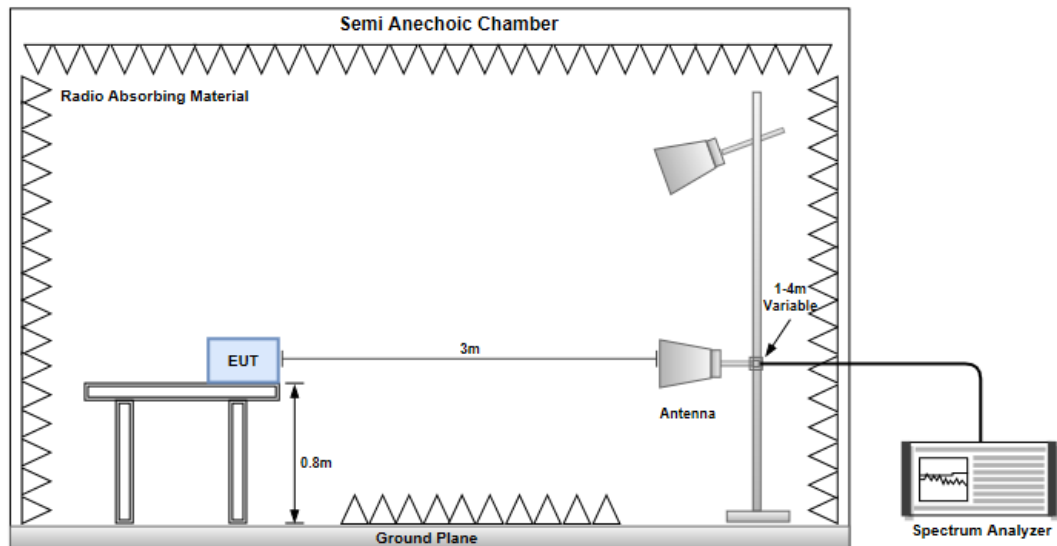
- a. Same test set up as below 1GHz radiated testing.
- b. The EUT was set 3 meters from the interference-receiving antenna which was mounted on the top of a variable height antenna tower.
- c. There should be absorber placed between the EUT and Antenna and its located size should let the test site meet CISPR16-1-4 requirement.
- d. The table was rotated 360 degrees to determine the position of the highest radiation.
- e. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.
- f. Set the Horn Antenna at 1m height, then run the turn table to get the maximum noise reading from Horizontal and Vertical polarity separately.
- g. When EUT locating on the turn-table, the Horn Antenna must be raised up and descended down, then turning around the turn-table to get the maximum noise reading of the Horizontal and Vertical polarity separately. Note the maximum raise up height is same as the top of EUT.
- h. If emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.2.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



3.2.4 Test Results (Below 1GHz)

Refer to Appendix B.

3.2.5 Test Results (Above 1GHz)

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 <http://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.)

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

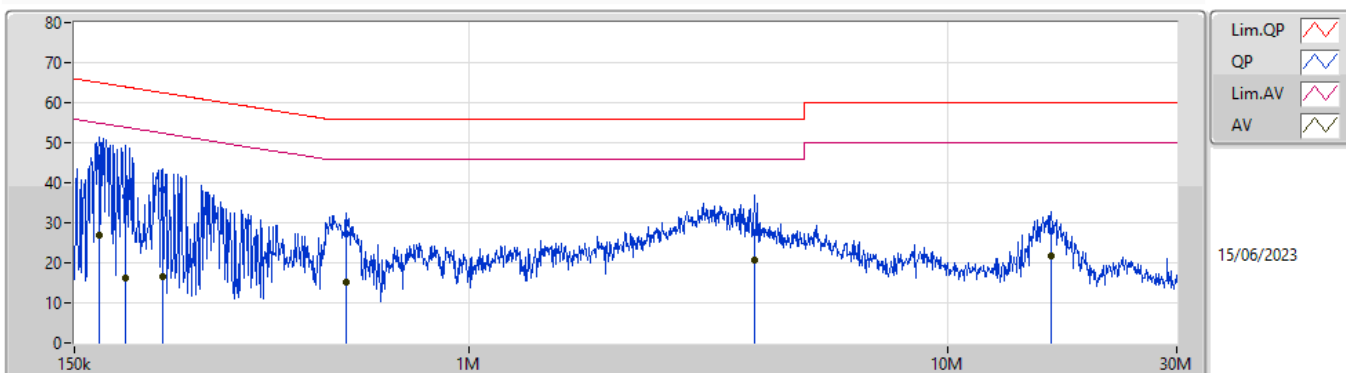
==END==



Summary

Mode	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition
Mode 1	QP	156.109k	49.69	65.67	-15.98	9.69	Neutral

Mode 1

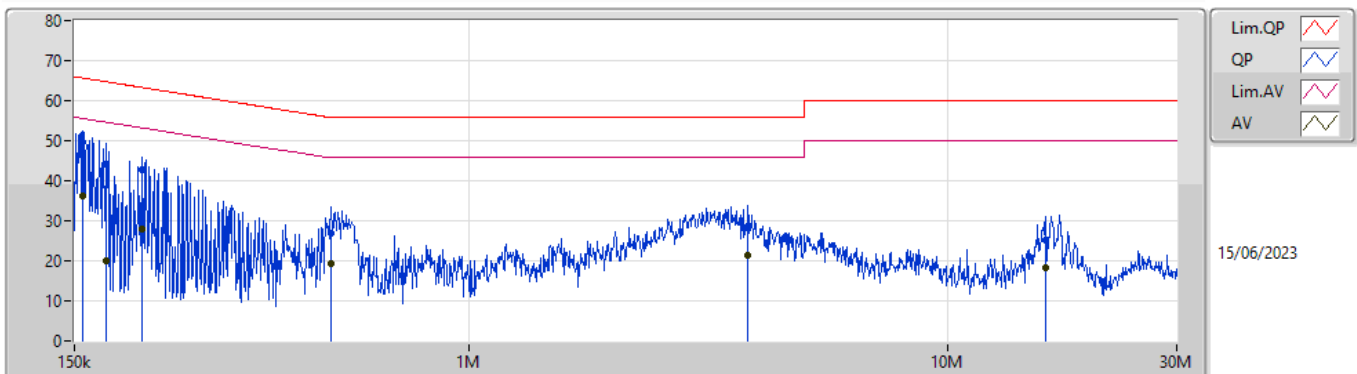


Model: BT20820
Sample No: E03
Power: 120V/60Hz
Test by: Joe Liao
Temperature: 23°C
Humidity: 64%
Remark1:
Remark2:

Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	169.084k	46.27	65.01	-18.74	9.69	Line	"Worst"	36.58	9.63	0.06	-			
AV	169.084k	26.99	55.01	-28.02	9.69	Line	-	17.30	9.63	0.06	-			
QP	192.124k	36.43	63.93	-27.50	9.68	Line	-	26.75	9.62	0.06	-			
AV	192.124k	16.34	53.93	-37.59	9.68	Line	-	6.66	9.62	0.06	-			
QP	229.015k	38.43	62.48	-24.05	9.68	Line	-	28.75	9.62	0.06	-			
AV	229.015k	16.71	52.48	-35.77	9.68	Line	-	7.03	9.62	0.06	-			
QP	555.583k	27.33	56.00	-28.67	9.70	Line	-	17.63	9.62	0.08	-			
AV	555.583k	15.03	46.00	-30.97	9.70	Line	-	5.33	9.62	0.08	-			
QP	3.945M	27.69	56.00	-28.31	9.83	Line	-	17.86	9.65	0.18	-			
AV	3.945M	20.64	46.00	-25.36	9.83	Line	-	10.81	9.65	0.18	-			
QP	16.404M	27.99	60.00	-32.01	10.14	Line	-	17.85	9.68	0.46	-			
AV	16.404M	21.56	50.00	-28.44	10.14	Line	-	11.42	9.68	0.46	-			



Mode 1



Model: BT20820
Sample No: E03
Power: 120V/60Hz
Test by: Joe Liao
Temperature: 23°C
Humidity: 64%
Remark1:
Remark2:

Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	156.109k	49.69	65.67	-15.98	9.69	Neutral	"Worst"	40.00	9.63	0.06	-			
AV	156.109k	36.04	55.67	-19.63	9.69	Neutral	-	26.35	9.63	0.06	-			
QP	175.269k	44.04	64.70	-20.66	9.68	Neutral	-	34.36	9.62	0.06	-			
AV	175.269k	20.14	54.70	-34.56	9.68	Neutral	-	10.46	9.62	0.06	-			
QP	208.092k	42.83	63.28	-20.45	9.68	Neutral	-	33.15	9.62	0.06	-			
AV	208.092k	27.83	53.28	-25.45	9.68	Neutral	-	18.15	9.62	0.06	-			
QP	515.002k	26.98	56.00	-29.02	9.69	Neutral	-	17.29	9.62	0.07	-			
AV	515.002k	19.47	46.00	-26.53	9.69	Neutral	-	9.78	9.62	0.07	-			
QP	3.821M	28.58	56.00	-27.42	9.83	Neutral	-	18.75	9.65	0.18	-			
AV	3.821M	21.35	46.00	-24.65	9.83	Neutral	-	11.52	9.65	0.18	-			
QP	15.952M	25.31	60.00	-34.69	10.23	Neutral	-	15.08	9.77	0.46	-			
AV	15.952M	18.27	50.00	-31.73	10.23	Neutral	-	8.04	9.77	0.46	-			

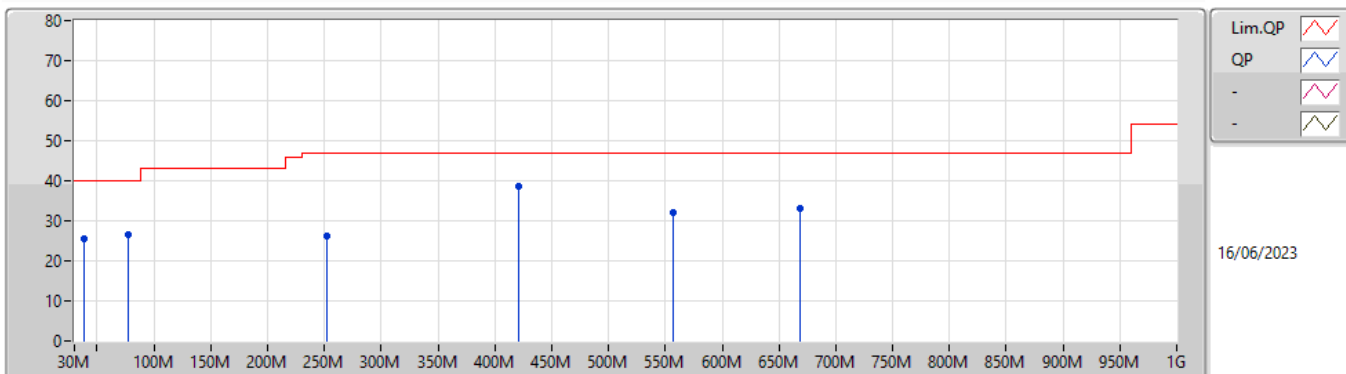


Summary

Mode	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Condition	Azimuth (°)	Height (m)
Mode 1	PK	421.3M	38.66	47.00	-8.34	-3.64	Vertical	-	-



Mode 1

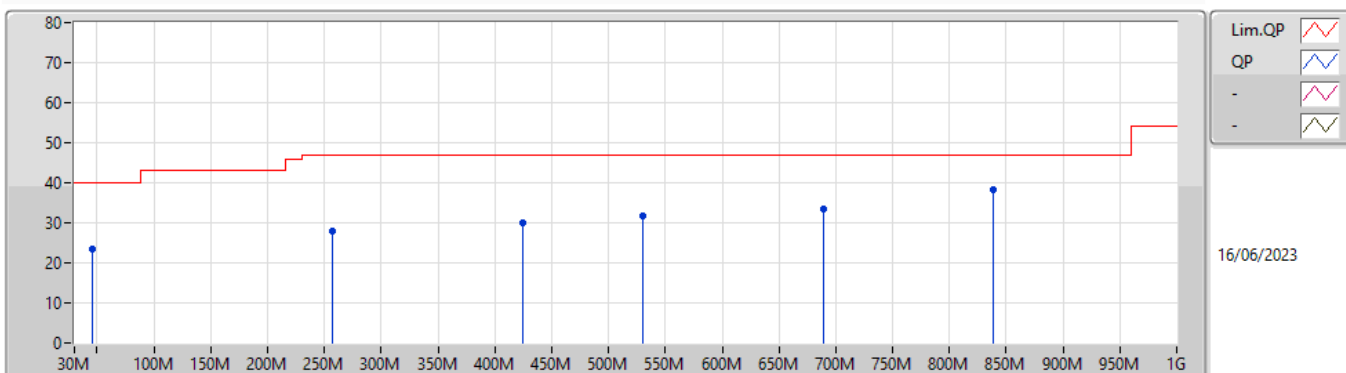


Model:BT20820
Sample No:E01
Test By:Joe Liao
Temperature:22
Humidity:59
Remark1:
Remark2:

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	38.1M	25.50	40.00	-14.50	-9.72	3	Vertical	-	-	-	35.22	17.81	0.55	28.08
PK	77.5M	26.67	40.00	-13.33	-12.99	3	Vertical	-	-	-	39.66	14.35	0.92	28.26
PK	252.05M	26.27	47.00	-20.73	-7.96	3	Vertical	-	-	-	34.23	18.60	1.84	28.40
PK	421.3M	38.66	47.00	-8.34	-3.64	3	Vertical	-	-	"Worst"	42.30	21.53	3.03	28.20
PK	557.4M	32.16	47.00	-14.84	-0.91	3	Vertical	-	-	-	33.07	23.85	3.29	28.05
PK	668.85M	33.14	47.00	-13.86	1.56	3	Vertical	-	-	-	31.58	25.98	3.48	27.90



Mode 1



Model:BT20820
Sample No:E01
Test By:Joe Liao
Temperature:22
Humidity:59
Remark1:
Remark2:

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	45.95M	23.47	40.00	-16.53	-8.58	3	Horizontal	-	-	-	32.05	18.89	0.64	28.11
PK	256.55M	27.99	47.00	-19.01	-8.12	3	Horizontal	-	-	-	36.11	18.41	1.87	28.40
PK	424.65M	29.84	47.00	-17.16	-3.57	3	Horizontal	-	-	-	33.41	21.59	3.04	28.20
PK	530.2M	31.75	47.00	-15.25	-1.36	3	Horizontal	-	-	-	33.11	23.40	3.31	28.07
PK	689.45M	33.57	47.00	-13.43	1.69	3	Horizontal	-	-	-	31.88	26.00	3.56	27.87
PK	838.5M	38.35	47.00	-8.65	4.70	3	Horizontal	-	-	"Worst"	33.65	28.14	4.02	27.46

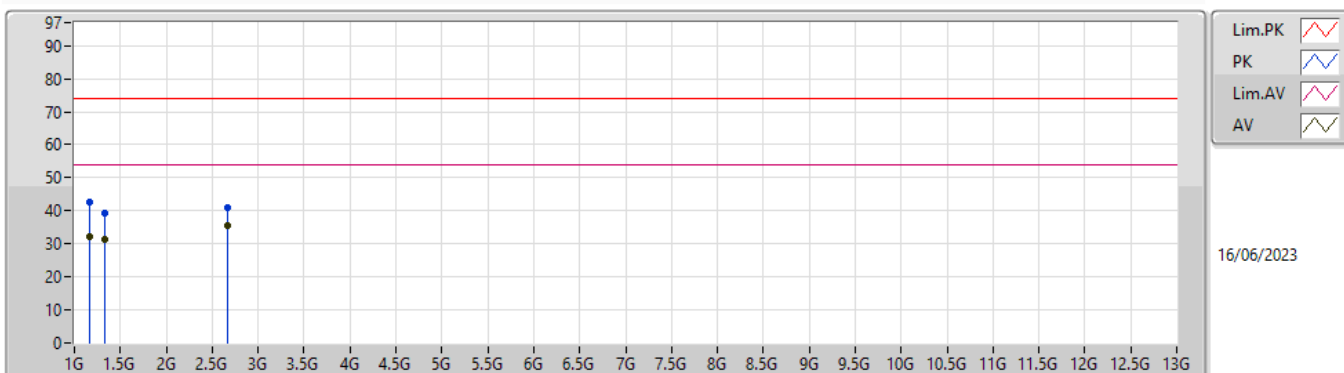


Summary

Mode	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Condition	Azimuth (°)	Height (m)
Mode 1	AV	2.6605G	35.39	54.00	-18.61	-1.43	Vertical	185	1.00



Mode 1

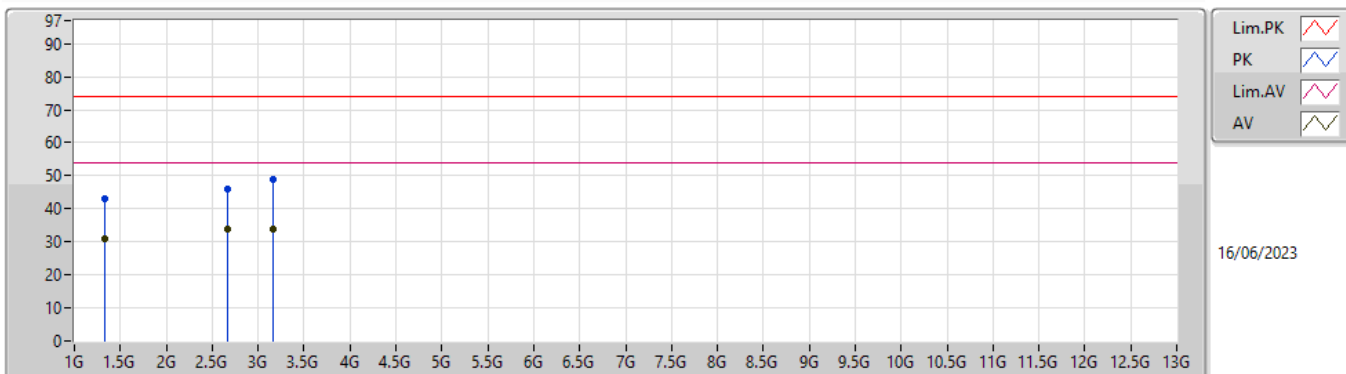


Model:BT20820
Sample No:E01
Test By:Joe Liao
Temperature:22
Humidity:59
Remark1:
Remark2:

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	1.1635G	42.59	74.00	-31.41	-8.30	3	Vertical	127	1.08	-	50.89	25.20	3.00	36.50
AV	1.1635G	32.26	54.00	-21.74	-8.30	3	Vertical	127	1.08	-	40.56	25.20	3.00	36.50
PK	1.331G	39.48	74.00	-34.52	-6.41	3	Vertical	243	1.15	-	45.89	26.20	3.20	35.81
AV	1.331G	31.15	54.00	-22.85	-6.41	3	Vertical	243	1.15	-	37.56	26.20	3.20	35.81
PK	2.6605G	41.14	74.00	-32.86	-1.43	3	Vertical	185	1.00	-	42.57	27.72	4.57	33.72
AV	2.6605G	35.39	54.00	-18.61	-1.43	3	Vertical	185	1.00	"Worst"	36.82	27.72	4.57	33.72



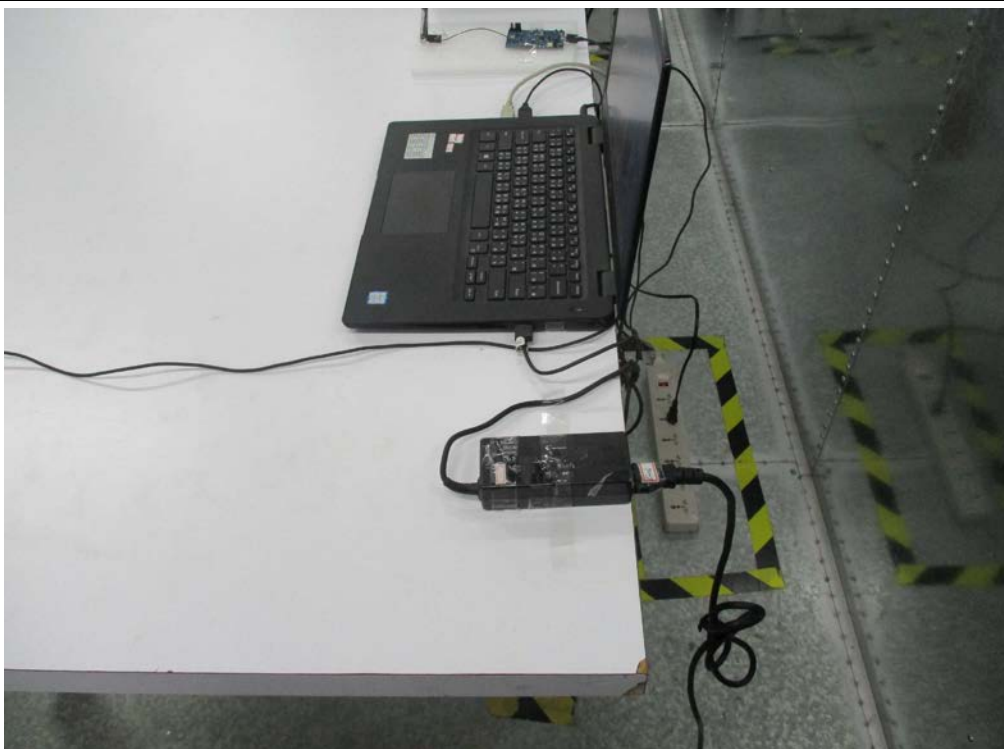
Mode 1



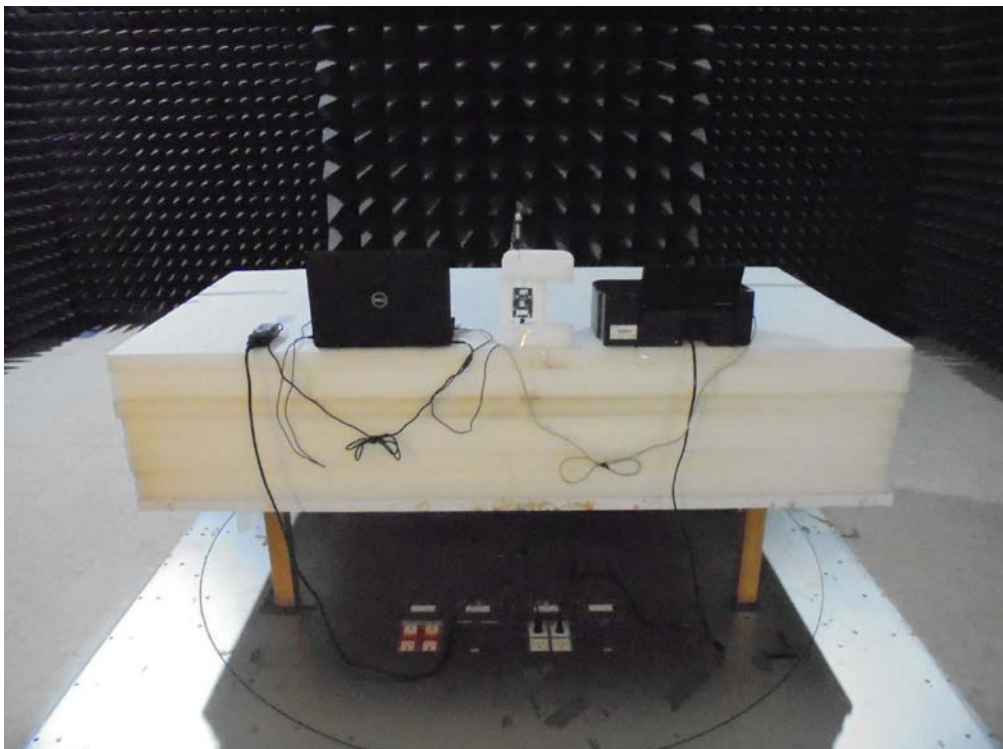
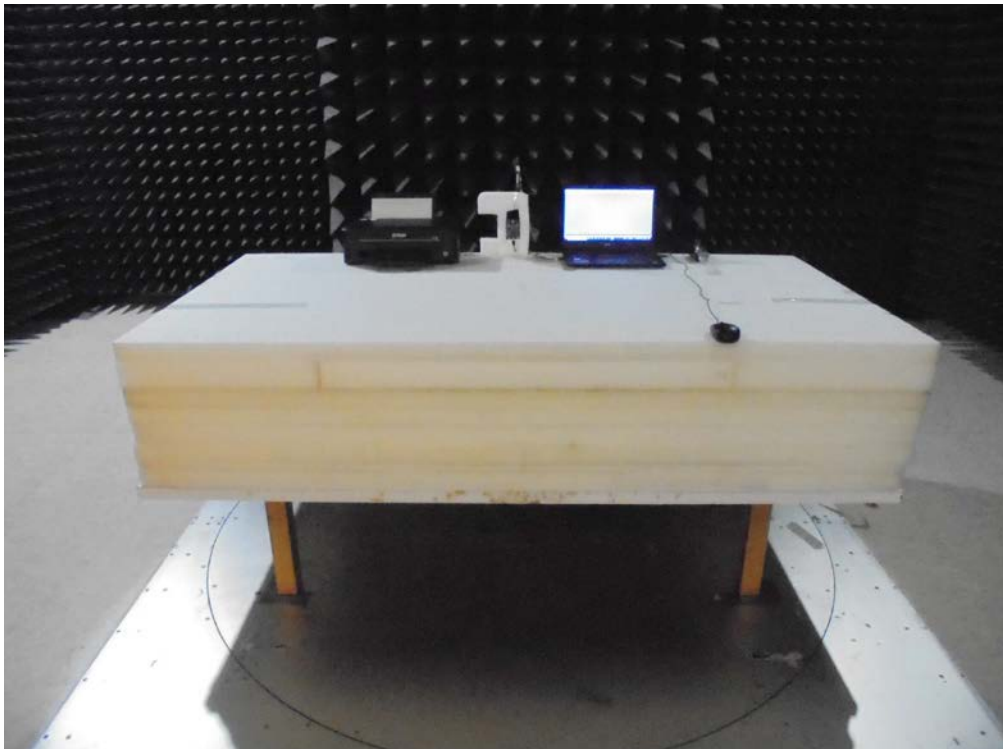
Model:BT20820
Sample No:E01
Test By:Joe Liao
Temperature:22
Humidity:59
Remark1:
Remark2:

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	1.3333G	43.16	74.00	-30.84	-6.40	3	Horizontal	135	1.14	-	49.56	26.20	3.20	35.80
AV	1.3333G	30.84	54.00	-23.16	-6.40	3	Horizontal	135	1.14	-	37.24	26.20	3.20	35.80
PK	2.6603G	45.85	74.00	-28.15	-1.43	3	Horizontal	179	1.30	-	47.28	27.72	4.57	33.72
AV	2.6603G	33.89	54.00	-20.11	-1.43	3	Horizontal	179	1.30	-	35.32	27.72	4.57	33.72
PK	3.1652G	48.86	74.00	-25.14	0.30	3	Horizontal	296	1.00	-	48.56	28.77	4.92	33.39
AV	3.1652G	33.91	54.00	-20.09	0.30	3	Horizontal	296	1.00	"Worst"	33.61	28.77	4.92	33.39

Conducted Emissions from the AC mains power ports



Radiated Emission Below 1GHz Test



Radiated Emission Above 1GHz Test

