



FCC TEST REPORT

FCC ID:2A7KE-H33

Report Number..... : ZKT-2311098672E

Date of Test..... Nov 09, 2023 to Nov. 16, 2023

Date of issue : Nov. 16, 2023

Total number of pages 27

Test Result : PASS

Testing Laboratory..... : Shenzhen ZKT Technology Co., Ltd.

Address : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name : Shenzhen Huier Industrial Co., LTD

Address : Guang-shen Road Section, Hongqiaotou Community, Yanluo Street, Bao'an District, Shenzhen City 504, Building B, 210, China.

Manufacturer's name : Shenzhen Huier Industrial Co., LTD

Address : Guang-shen Road Section, Hongqiaotou Community, Yanluo Street, Bao'an District, Shenzhen City 504, Building B, 210, China.

Test specification:

Standard..... : FCC CFR Title 47 Part 15 Subpart C

Test procedure..... : /

Non-standard test method : N/A

Test Report Form No. : TRF-EL-107_V0

Test Report Form(s) Originator : ZKT Testing

Master TRF : Dated: 2020-01-06

This device described above has been tested by ZKT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Product name..... : 5in1 folding night light wireless charger

Trademark : N/A

Model/Type reference : H33

Ratings..... : Input: QC9V $\equiv$ 2A, PD9V $\equiv$ 2.22A
Phone Output: 5W/7.5W//10W/15W(Max)
Earbuds Output: 5W
iWatch Output: 2.5W



Testing procedure and testing location:

Testing Laboratory : **Shenzhen ZKT Technology Co., Ltd.**

Address : 1/F, No. 101, Building B, No. 6, Tangwei Community
Industrial Avenue, Fuhai Street, Bao'an District,
Shenzhen, China

Tested by (name + signature) : **Jim Liu**

Reviewer (name + signature) : **Jeff Fu**

Approved (name + signature) : **Lake Xie**





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1. VERSION

Report No.	Version	Description	Approved
ZKT-2311098672E	Rev.01	Initial issue of report	Nov. 16, 2023



2. TEST SUMMARY

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	Pass
Spurious Emission	15.209(a)(f)	Pass
20dB Bandwidth	15.215	Pass

NOTE:

(1) "N/A" denotes test is not applicable in this Test Report



2.1 TEST FACILITY

Shenzhen ZKT Technology Co., Ltd.
Add. : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

FCC Test Firm Registration Number: 692225
Designation Number: CN1299
IC Registered No.: 27033
CAB identifier: CN0110

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	3m camber Radiated spurious emission(9KHz-30MHz)	U=4.5dB
2	3m camber Radiated spurious emission(30MHz-1GHz)	U=4.8dB
3	3m chamber Radiated spurious emission(1GHz-6GHz)	U=4.9dB
4	3m chamber Radiated spurious emission(6GHz-40GHz)	U=5.0dB
5	Conducted disturbance	U=3.2dB
6	RF conducted Spurious Emission	U=2.2dB
7	RF Occupied Bandwidth	U=1.8MHz
8	humidity uncertainty	U=5.3%
-	Temperature uncertainty	U=0.59℃



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name:	5in1 folding night light wireless charger
Model No.:	H33
Serial No.:	N/A
Model Difference:	N/A
Hardware version:	N/A
Software version:	N/A
Operation Frequency:	Phone Wireless: 115kHz-205kHz Earbuds Wireless: 115kHz-205kHz iWatch: 300kHz-350kHz
Modulation type:	ASK
Antenna Type:	loop coil antenna
Antenna gain:	0dBi
Ratings:	Input: QC9V $\approx$ 2A, PD9V $\approx$ 2.22A Phone Output: 5W/7.5W//10W/15W(Max) Earbuds Output: 5W iWatch Output: 2.5W
Test description:	Phone and Watch and Earbuds Battery > 98%, =50% and < 1% are tested, and the worst is < 1%.

3.2 Test mode

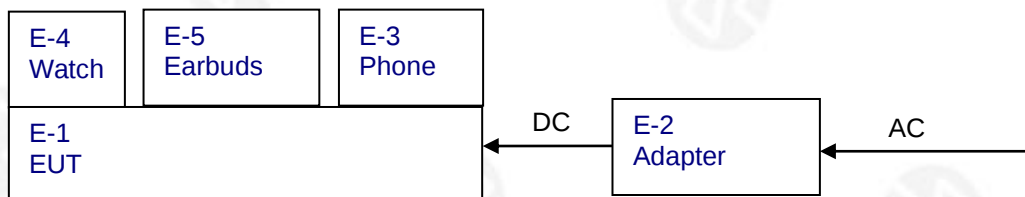
To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Test Modes:	Description:
Phone Coil+Earphone Coil+Watch Coil	Mode 1: AC/DC Adapter+EUT + Earphone +Watch (Battery Status:<1%)+Wireless load (Full Load)
	Mode 2: AC/DC Adapter+EUT + Earphone + Watch (Battery Status:<50%)+Wireless load (Full Load)
	Mode 3: AC/DC Adapter+EUT +Earphone +Watch (Battery Status:<100%)+Wireless load (Full Load)
	Mode 4 :AC/DC Adapter+EUT +Earphone +Watch (Battery Status:<1%)+Wireless load (Half Load)
	Mode 5: AC/DC Adapter+EUT + Earphone + Watch (Battery Status:<50%)+Wireless load (Half Load)
	Mode 6: AC/DC Adapter+EUT + Earphone +Watch (Battery Status:<100%)+Wireless load (Half Load)
	Mode 7:AC/DC Adapter+EUT + Earphone + Watch (Battery Status:<1%)+Wireless load (Null Load)
	Mode 8:AC/DC Adapter+EUT +Earphone + Watch (Battery Status:<50%)+Wireless load (Null Load)
	Mode 9:AC/DC Adapter+EUT +Earphone +Watch (Battery Status:<100%)+Wireless load (Null Load)
No Loads	AC/DC Adapter+EUT (Null Load)

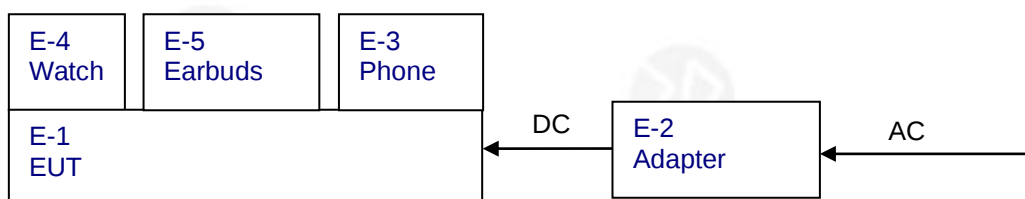


3.3 Block Diagram of EUT Configuration

Conducted Emission



Radiated Emission



3.4 Test Conditions

Temperature: 23~26°C

Relative Humidity: 54~63 %

3.5 Description Of Support Units (Conducted Mode)

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.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E1	5in1 folding night light wireless charger	N/A	H33	N/A	EUT
E2	AC ADAPTOR	Intertek	Q018AU11A0C0	N/A	Auxiliary
E3	Phone	Apple	iPhone 13	N/A	Auxiliary
E4	Watch	Apple	iWatch S2	N/A	Auxiliary
E5	Earbuds	Apple	AirPods2	N/A	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note
C1	NO	NO	1M	DC cable unshielded

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.



3.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	LISN	R&S	ENV216	101471	N/A	Oct. 21, 2023	Oct. 20, 2024
2	LISN	CYBERTEK	EM5040A	E1850400149	N/A	Oct. 21, 2023	Oct. 20, 2024
3	Test Cable	N/A	C-01	N/A	N/A	Oct. 21, 2023	Oct. 20, 2024
4	Test Cable	N/A	C-02	N/A	N/A	Oct. 21, 2023	Oct. 20, 2024
5	Test Cable	N/A	C-03	N/A	N/A	Oct. 21, 2023	Oct. 20, 2024
6	EMI Test Receiver	R&S	ESCI3	101393	4.42 SP3	Oct. 28, 2023	Oct. 27, 2024
7	Triple-Loop Antenna	N/A	RF300	N/A	N/A	Oct. 28, 2023	Oct. 27, 2024
8	Absorbing Clamp	DZ	ZN23201	15034	N/A	Oct. 31, 2023	Oct. 30, 2024
9	EMC Software	Frad	EZ-EMC	Ver.EMC-CON 3A1.1	N/A	\	\

Radiation Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	9020A	MY55370835	A.17.05	Oct. 28, 2023	Oct. 27, 2024
2	Spectrum Analyzer (10kHz-39.9GHz)	R&S	FSV40-N	100363	1.71 SP2	Oct. 28, 2023	Oct. 27, 2024
3	EMI Test Receiver (9kHz-7GHz)	R&S	ESCI7	101169	4.32	Oct. 28, 2023	Oct. 27, 2024
4	Bilog Antenna (30MHz-1500MHz)	Schwarzbeck	VULB9168	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
5	Horn Antenna (1GHz-18GHz)	Agilent	AH-118	071145	N/A	Nov. 01, 2023	Oct. 31, 2024
6	Horn Antenna (15GHz-40GHz)	A.H.System	SAS-574	588	N/A	Oct. 28, 2023	Oct. 27, 2024
7	Loop Antenna	TESEQ	HLA6121	58357	N/A	Nov. 01, 2023	Oct. 31, 2024
8	Amplifier (30-1000MHz)	EM Electronics	EM330 Amplifier	060747	N/A	Nov. 01, 2023	Oct. 31, 2024
9	Amplifier (1GHz-26.5GHz)	Agilent	8449B	3008A00315	N/A	Oct. 28, 2023	Oct. 27, 2024
10	Amplifier (500MHz-40GHz)	Quanjuda	DLE-161	097	N/A	Oct. 28, 2023	Oct. 27, 2024
11	Test Cable	N/A	R-01	N/A	N/A	Oct. 28, 2023	Oct. 27, 2024
12	Test Cable	N/A	R-02	N/A	N/A	Oct. 28, 2023	Oct. 27, 2024
13	Test Cable	N/A	R-03	N/A	N/A	Oct. 28, 2023	Oct. 27, 2024
14	D.C. Power Supply	LongWei	TPR-6405D	N/A	N/A	\	\
15	EMC Software	Frad	EZ-EMC	Ver.EMC-CO N 3A1.1	N/A	\	\
16	Turntable	MF	MF-7802B S	N/A	N/A	\	\
17	Antenna tower	MF	MF-7802B S	N/A	N/A	\	\



RF Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	9020A	MY55370835	A.17.05	Oct. 28, 2023	Oct. 27, 2024
2	Spectrum Analyzer (10kHz-39.9GHz)	R&S	FSV40-N	100363	1.71 SP2	Oct. 28, 2023	Oct. 27, 2024
3	Test Cable	N/A	RF-01	N/A	N/A	Oct. 28, 2023	Oct. 27, 2024
4	Test Cable	N/A	RF-02	N/A	N/A	Oct. 28, 2023	Oct. 27, 2024
5	Test Cable	N/A	RF-03	N/A	N/A	Oct. 28, 2023	Oct. 27, 2024
6	ESG Signal Generator	Agilent	E4421B	N/A	B.03.84	Oct. 21, 2023	Oct. 20, 2024
7	Signal Generator	Agilent	N5182A	N/A	A.01.87	Oct. 21, 2023	Oct. 20, 2024
8	Magnetic Field Probe Tester	Narda	ELT-400	0-0344	N/A	Nov. 15, 2023	Nov. 14, 2024
9	Wideband Radio Communication Test	R&S	CMW500	106504	V 3.7.22	Oct. 28, 2023	Oct. 27, 2024
10	MWRF Power Meter Test system	MW	MW100-RF CB	N/A	N/A	Oct. 21, 2023	Oct. 20, 2024
11	D.C. Power Supply	LongWei	TPR-6405D	N/A	N/A	\	\
12	RF Software	MW	MTS8310	V2.0.0.0	N/A	\	\



4. CONDUCTED EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10:2013
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

4.1.1 POWER LINE CONDUCTED EMISSION Limits

FREQUENCY (MHz)	Limit (dBuV)		Standard
	Quas -peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

(1) *Decreases with the logarithm of the frequency.

4.1.2 TEST PROCEDURE

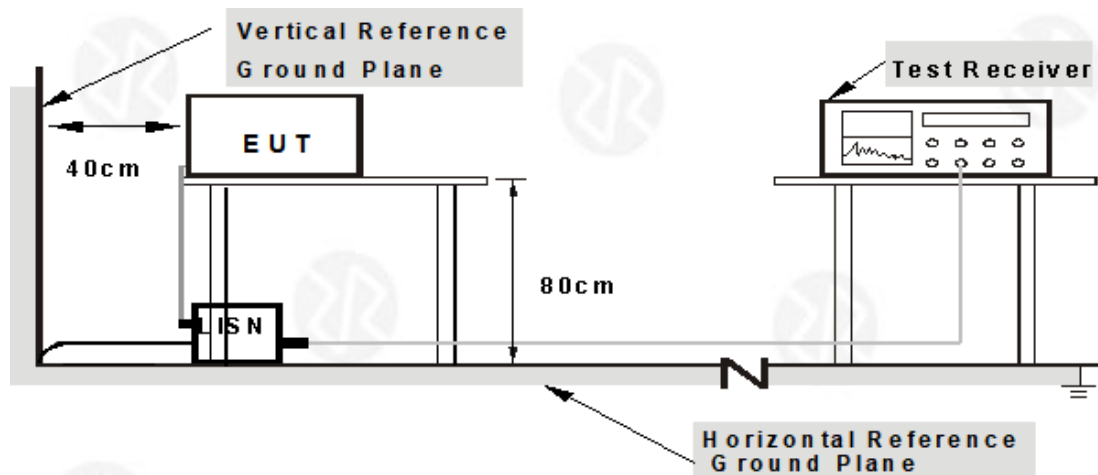
- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation



4.1.4 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 from other units and other metal planes

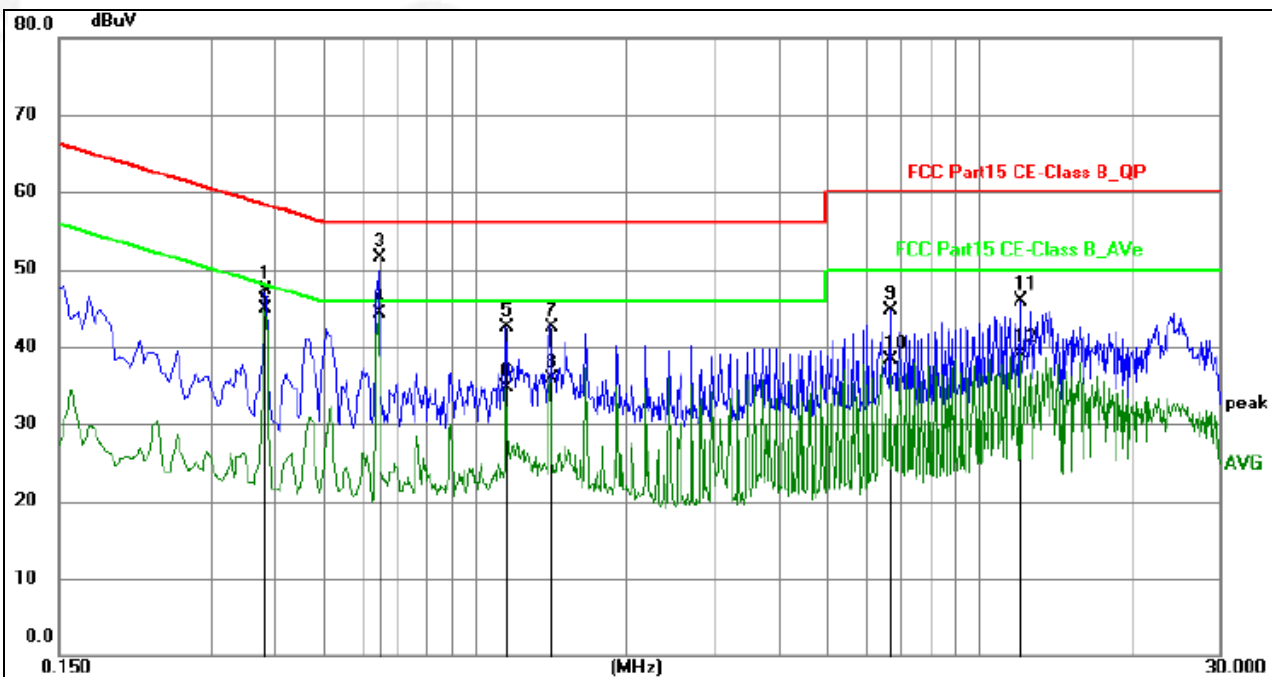
4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



4.1.6 Test Result

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Phase :	L
Test Voltage :	AC 120V/60Hz		



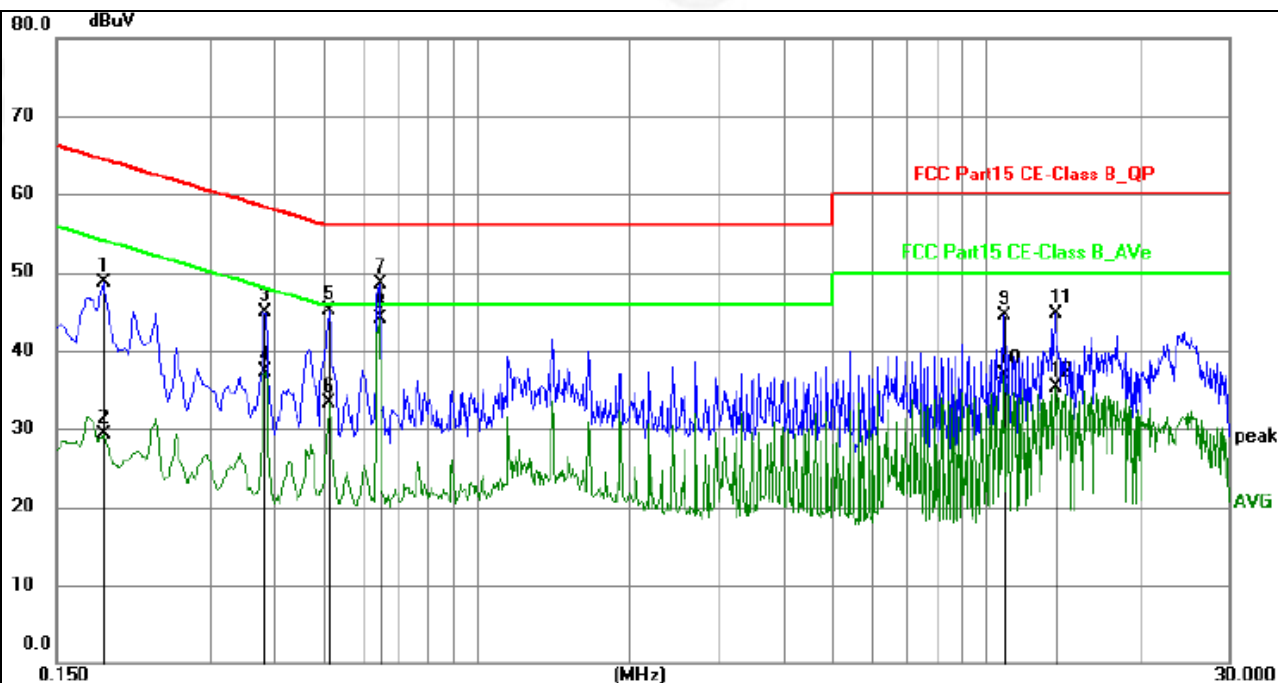
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.3840	26.64	20.63	47.27	58.19	-10.92	QP	P
2	0.3840	24.34	20.63	44.97	48.19	-3.22	AVG	P
3	0.6450	30.81	20.65	51.46	56.00	-4.54	QP	P
4	0.6450	23.74	20.65	44.39	46.00	-1.61	AVG	P
5	1.1580	21.84	20.70	42.54	56.00	-13.46	QP	P
6	1.1580	13.93	20.70	34.63	46.00	-11.37	AVG	P
7	1.4144	21.90	20.70	42.60	56.00	-13.40	QP	P
8	1.4144	15.21	20.70	35.91	46.00	-10.09	AVG	P
9	6.6750	23.96	20.78	44.74	60.00	-15.26	QP	P
10	6.6750	17.52	20.78	38.30	50.00	-11.70	AVG	P
11	12.0659	24.99	20.85	45.84	60.00	-14.16	QP	P
12	12.0659	18.32	20.85	39.17	50.00	-10.83	AVG	P

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Measurement Level = Reading level + Correct Factor



Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Phase :	N
Test Voltage :	AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1860	28.34	20.41	48.75	64.21	-15.46	QP	P
2	0.1860	8.85	20.41	29.26	54.21	-24.95	AVG	P
3	0.3840	24.30	20.52	44.82	58.19	-13.37	QP	P
4	0.3840	16.78	20.52	37.30	48.19	-10.89	AVG	P
5	0.5144	24.51	20.55	45.06	56.00	-10.94	QP	P
6	0.5144	12.79	20.55	33.34	46.00	-12.66	AVG	P
7	0.6450	27.90	20.58	48.48	56.00	-7.52	QP	P
8	0.6450	23.43	20.58	44.01	46.00	-1.99	AVG	P
9	10.8060	23.84	20.74	44.58	60.00	-15.42	QP	P
10	10.8060	16.07	20.74	36.81	50.00	-13.19	AVG	P
11	13.6590	23.84	20.81	44.65	60.00	-15.35	QP	P
12	13.6590	14.42	20.81	35.23	50.00	-14.77	AVG	P

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Measurement Level = Reading level + Correct Factor



5. RADIATED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	9kHz to 1GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average

5.1 Radiated Emission Limits

Limits for frequency below 30MHz

Frequency	Limit (uV/m)	Measurement Distance(m)	Remark
0.009-0.490	2400/F(kHz)	300	Quasi-peak Value
0.490-1.705	24000/F(kHz)	30	Quasi-peak Value
1.705-30	30	30	Quasi-peak Value

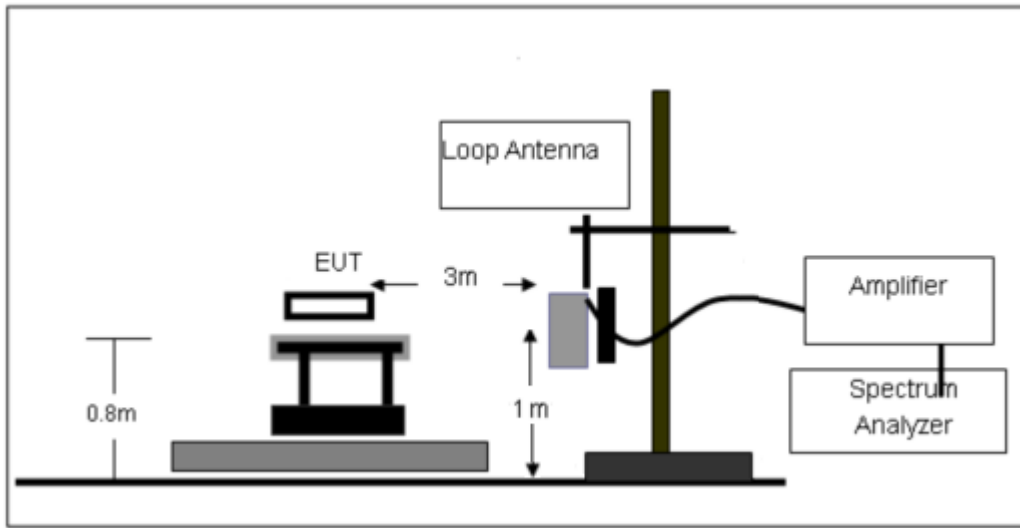
Limits for frequency Above 30MHz

Frequency	Limit (dBuV/m @3m)	Remark
30MHz-88MHz	40.00	Quasi-peak Value
88MHz-216MHz	43.50	Quasi-peak Value
216MHz-960MHz	46.00	Quasi-peak Value
960MHz-1GHz	54.00	Quasi-peak Value
Above 1GHz	54.00	Average Value
	74.00	Peak Value

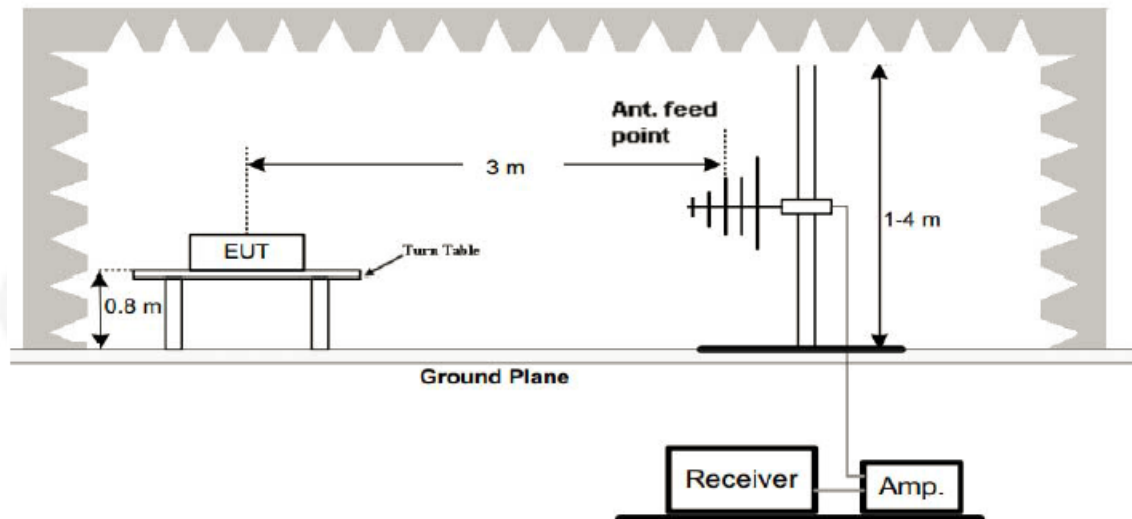


5.2 Anechoic Chamber Test Setup Diagram

(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209 and FCC 15.205 limits.

5.3 Test Procedure

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna (calibrated by dipole antenna) are used as a receiving antenna. Both horizontal and vertical polarization of the antenna are set on measurement.

5.4 DEVIATION FROM TEST STANDARD

No deviation



5.5 Test Result

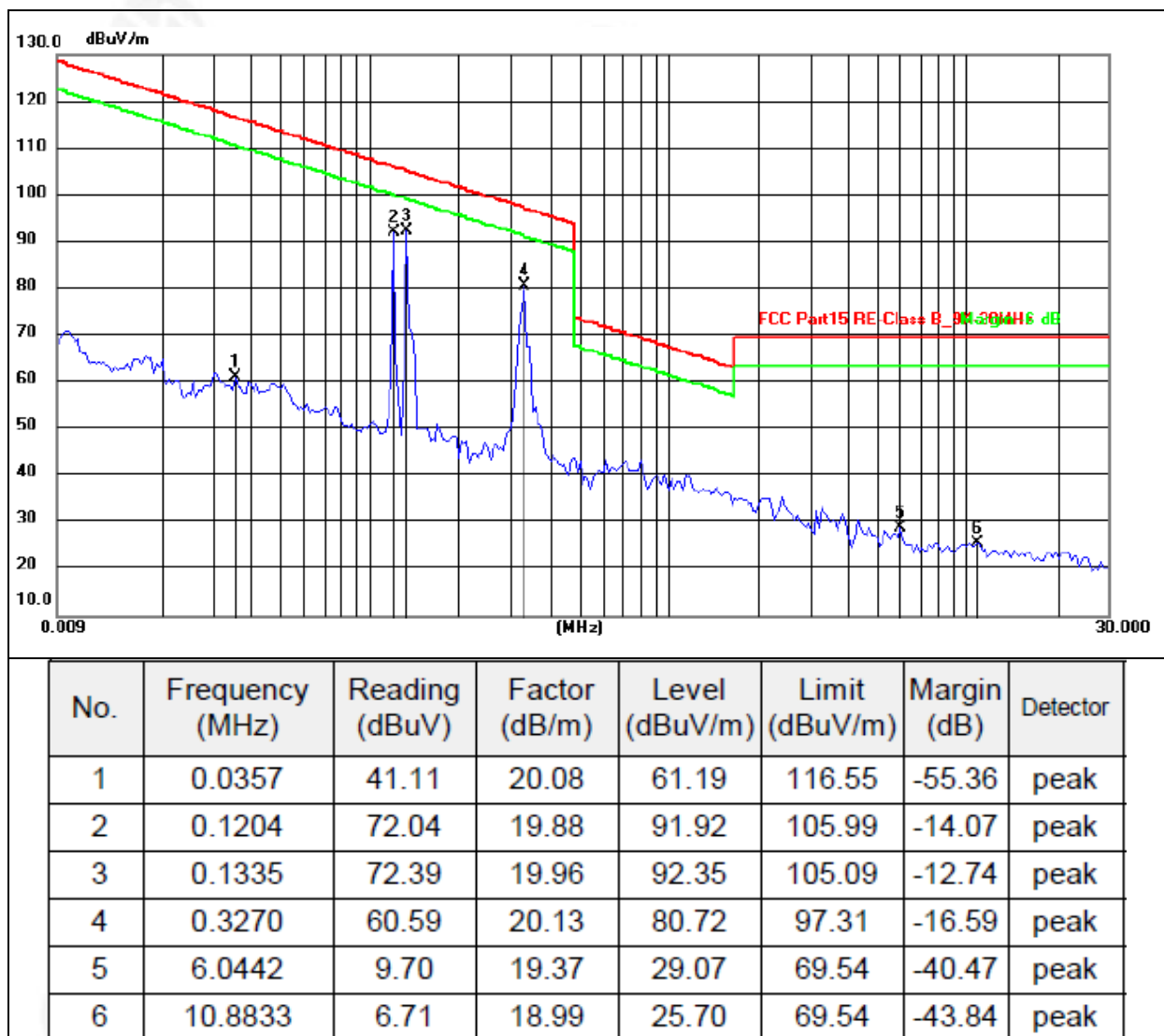
Measurement data:

Note: Limit dBuV/m @3m = Limit dBuV/m @300m+ 80

Limit dBuV/m @3m = Limit dBuV/m @30m + 40

9 kHz~30 MHz

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	coaxial
Test Voltage:	DC 9V	Simultaneously:	Full Load

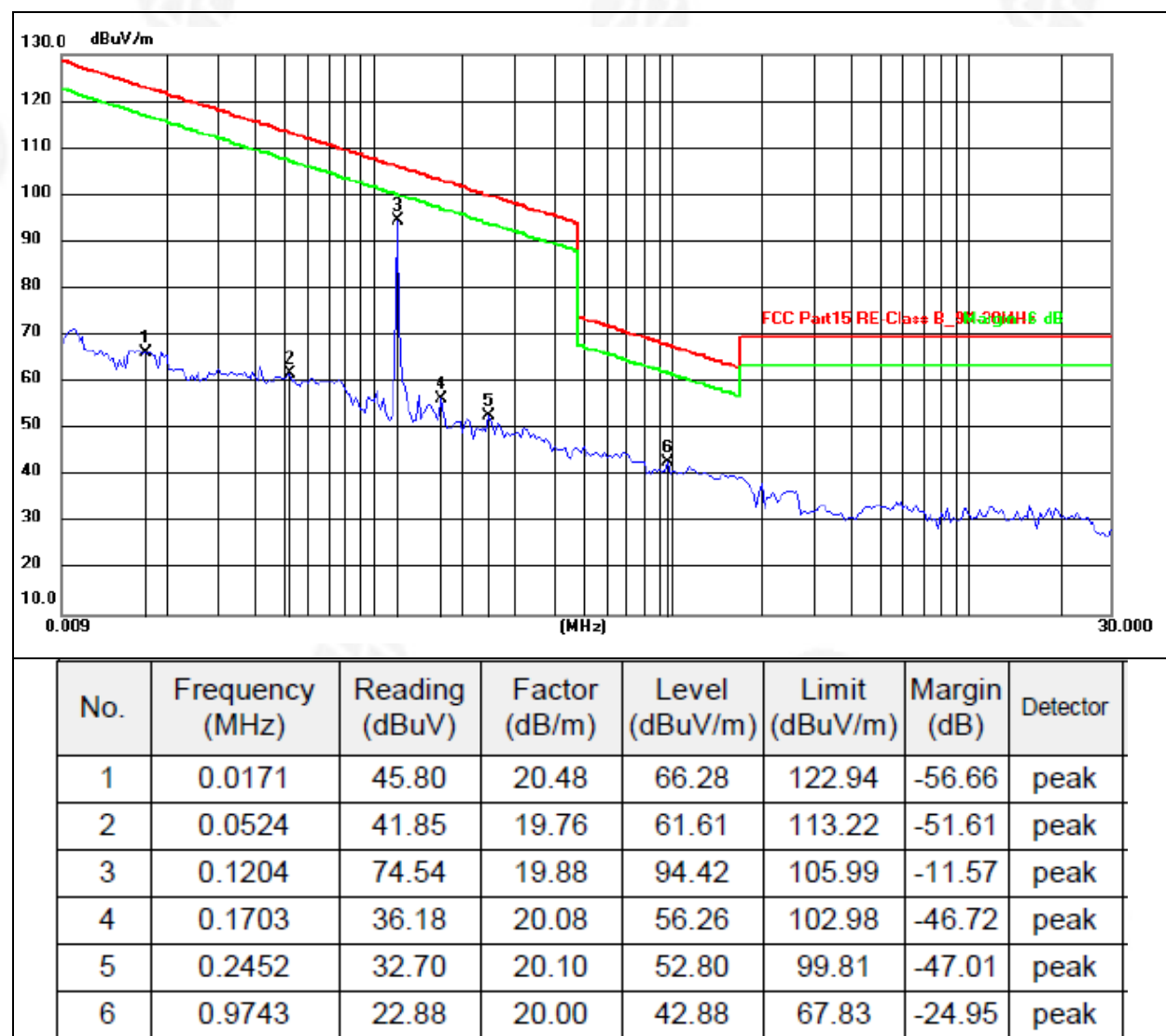


Remarks:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.



Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	coaxial
Test Voltage:	DC 9V	ANT A:	Full Load

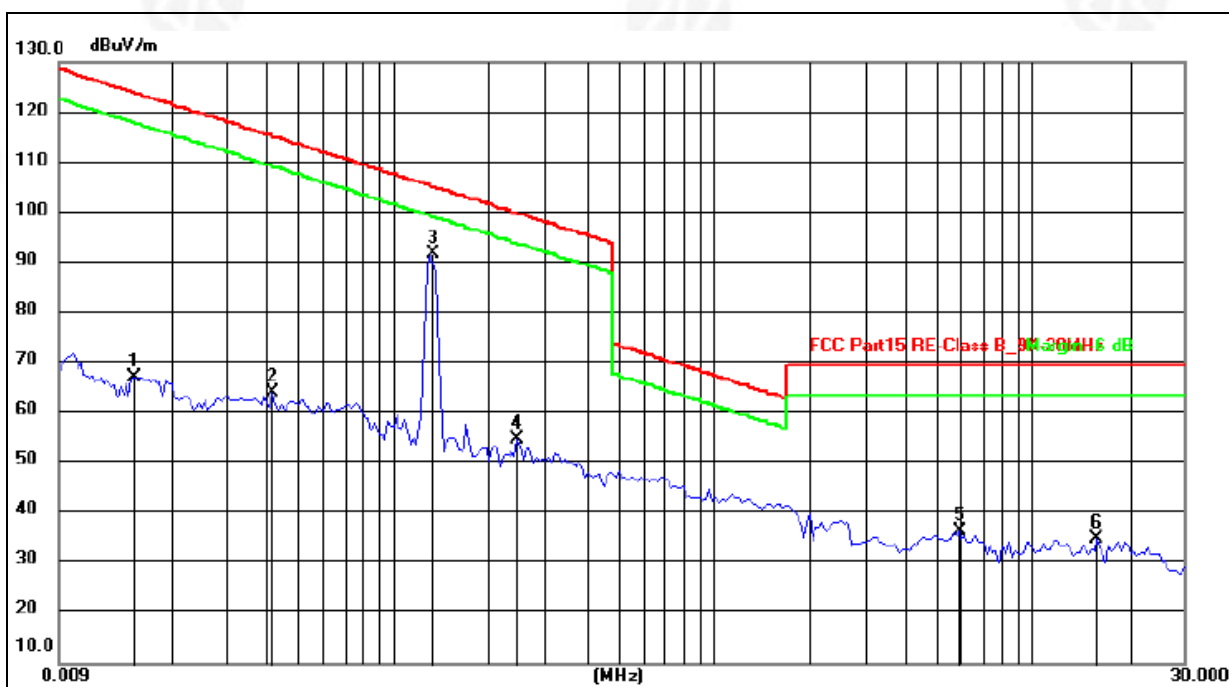


Remarks:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.



Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	coaxial
Test Voltage:	DC 9V	ANT B:	Full Load



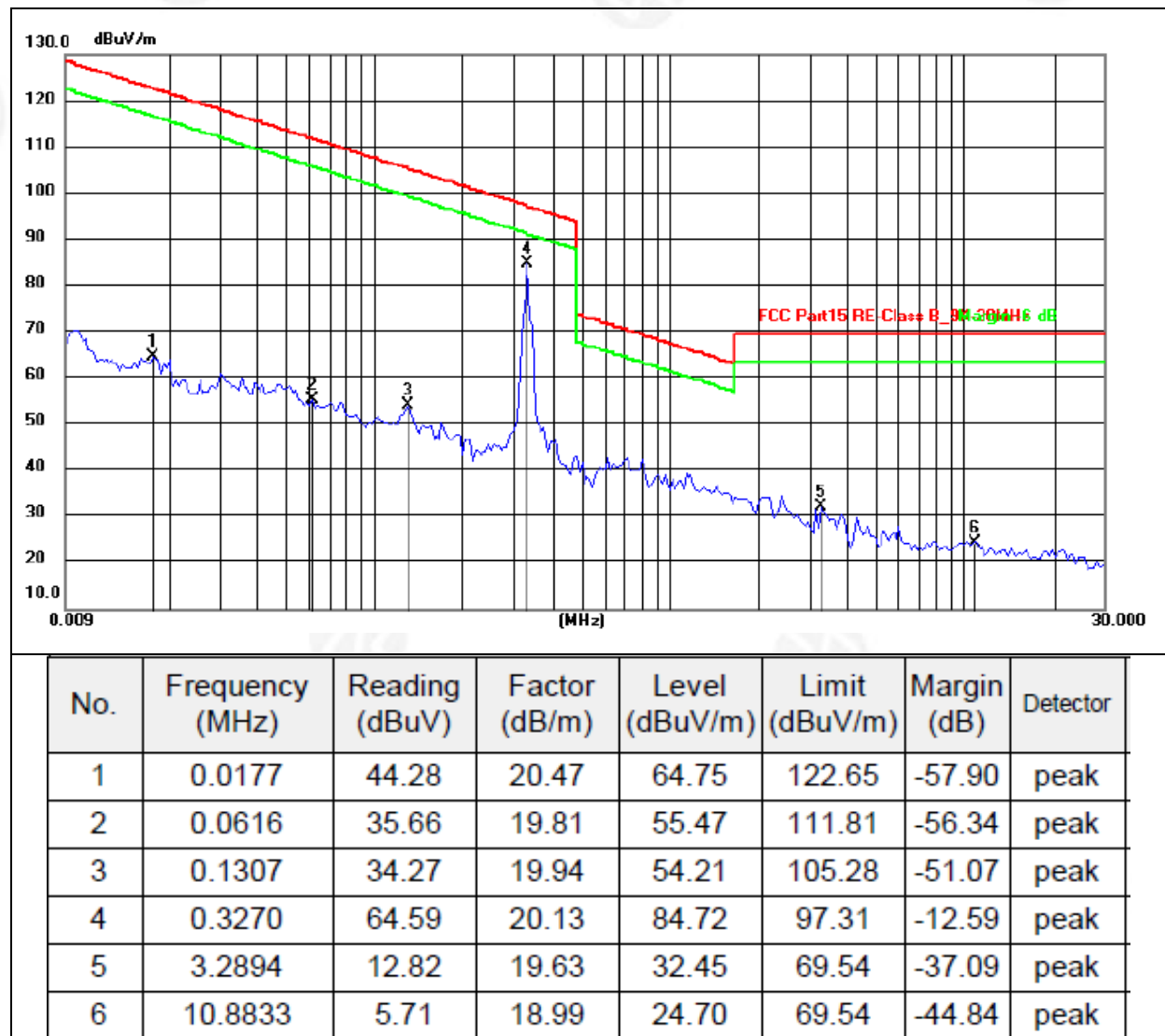
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0154	46.57	20.50	67.07	123.85	-56.78	peak
2	0.0420	44.33	19.94	64.27	115.14	-50.87	peak
3	0.1335	71.75	19.96	91.71	105.09	-13.38	peak
4	0.2452	34.70	20.10	54.80	99.81	-45.01	peak
5	5.9230	17.05	19.38	36.43	69.54	-33.11	peak
6	15.9991	16.20	18.82	35.02	69.54	-34.52	peak

Remarks:

- 1.Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2.The emission levels of other frequencies are very lower than the limit and not show in test report.



Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	coaxial
Test Voltage:	DC 9V	ANT C:	Full Load



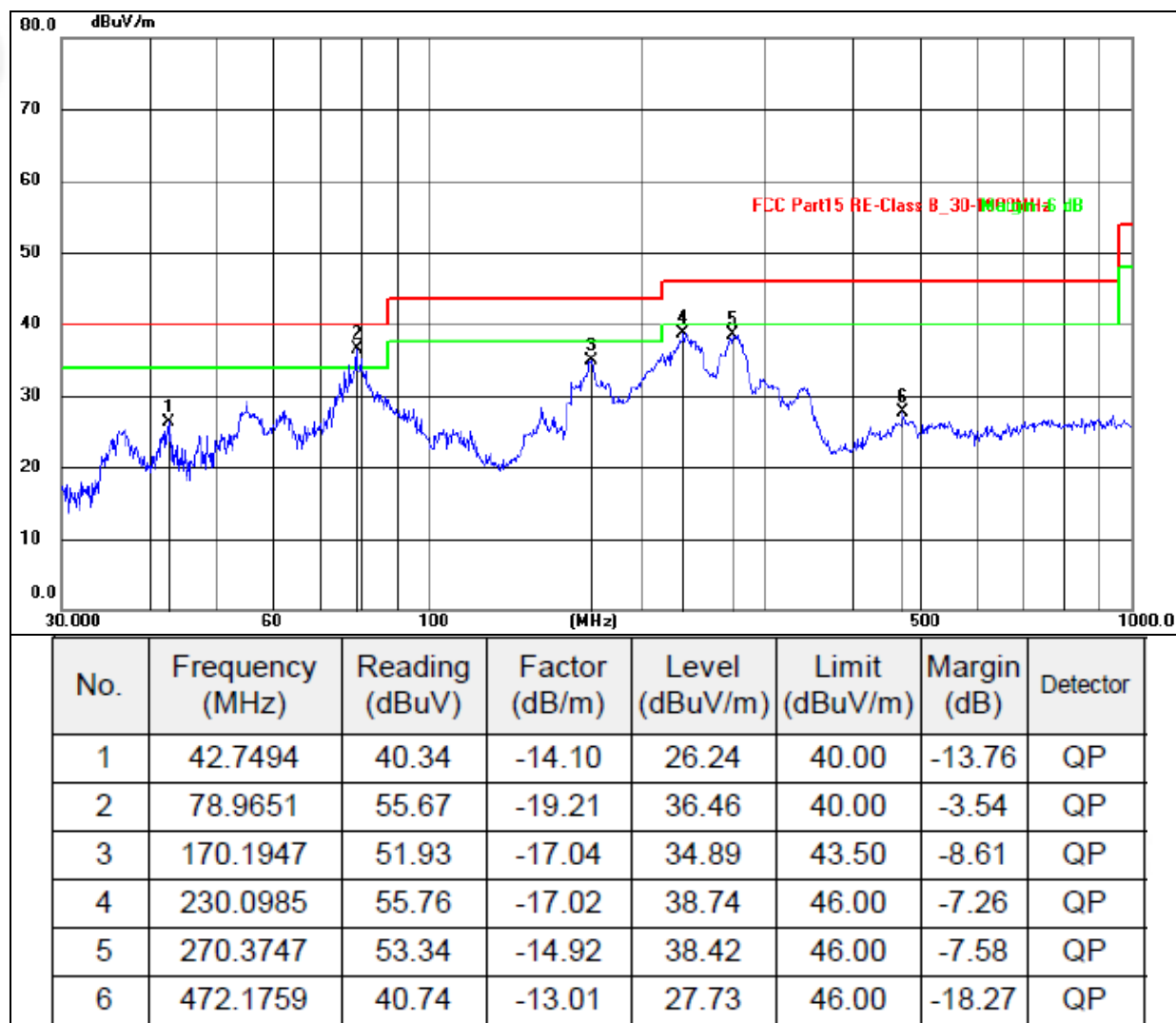
Remarks:

- 1.Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2.The emission levels of other frequencies are very lower than the limit and not show in test report.



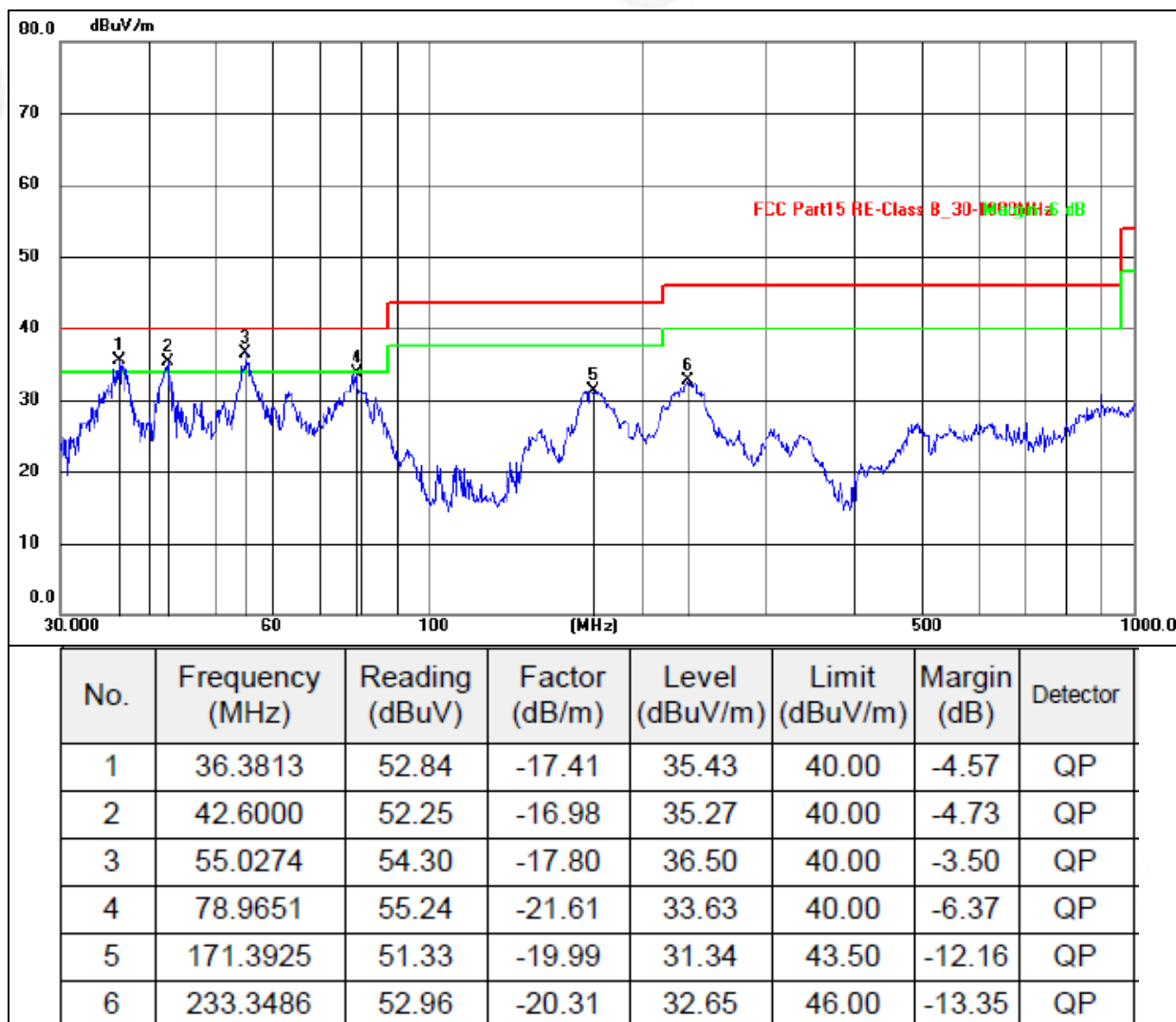
30MHz-1GHz

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 9V		





Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 9V		



Remarks:

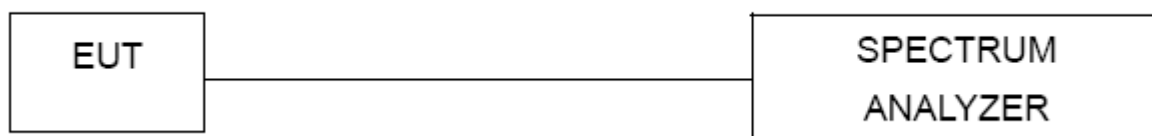
- 1.Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2.The emission levels of other frequencies are very lower than the limit and not show in test report.



6. BANDWIDTH TEST

1. Set RBW = 1%~5% OBW.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

TEST SETUP

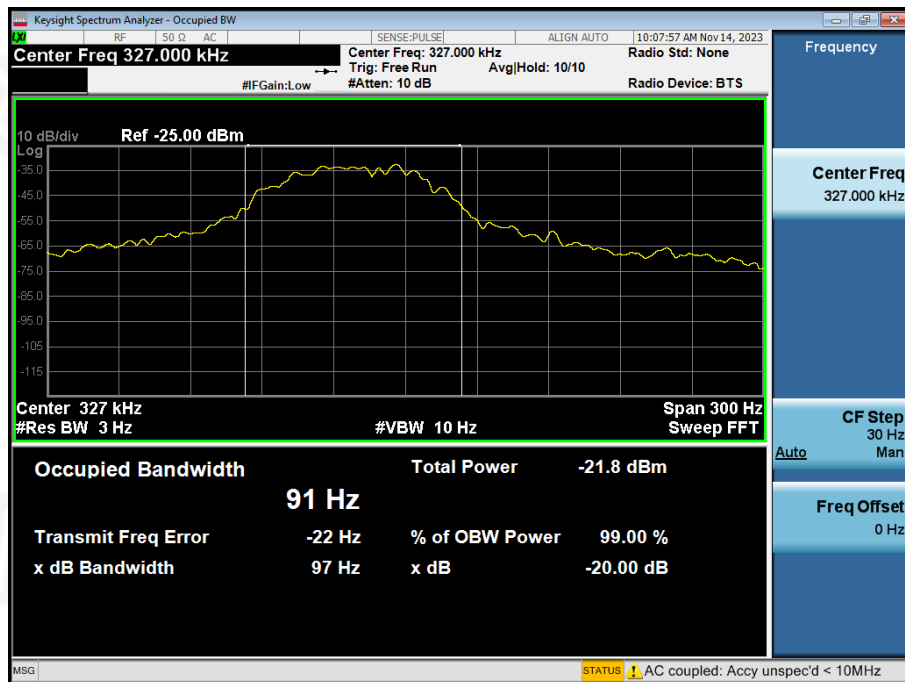




Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa		

Test Coil	Frequency (KHz)	20dB bandwidth (Hz)	Result
Phone	120.4	104	Pass
Earbuds	133.5	122	Pass
Watch	327.0	97	Pass







7. ANTENNA REQUIREMENT

Standard requirement:	FCC Part15 C Section 15.203
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
EUT Antenna:	
The antenna is Loop antenna, the best case gain of the antennas is 0dBi, reference to the appendix II for details	



8. TEST SETUP PHOTO

Reference to the appendix I for details.

9. EUT CONSTRUCTIONAL DETAILS

Reference to the appendix II for details.

***** END OF REPORT *****