

**FCC 15.249
2.4 GHz Report**

for

Dyaco International Inc.

12F, No.111, Songjiang Road, Taipei 104, Taiwan

Brand : DYACO
Product Name : Rowing machine
Model Name : YR001
FCC ID : 2AHVL-YR001

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APPENDIX A TEST PHOTOGRAPHS

TEST REPORT CERTIFICATION

Applicant : Dyaco International Inc.
Manufacturer : Dyaco International Inc.
Factory : Dyaco International Inc.
Product Name : Rowing machine
Model No. : YR001
Serial No. : N/A
Brand : DYACO
Power Supply : DC 12V

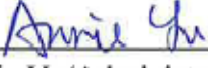
Rules of Compliance and Measurement Standards:

FCC 47 CFR Part 15 Subpart C: 2015
ANSI C63.10:2013

AUDIX Technology Corp. tested the equipment mentioned in accordance with the requirements set forth in the above standards. Test results indicate that the equipment tested is capable of demonstrating compliance with the requirements as documented within this report. **AUDIX Technology Corp.** does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens and samples.

Date of Test: 2016. 01. 15 ~ 05. 12

Date of Report: 2016. 05. 13

Producer: 
(Annie Yu/Administrator)

Signatory: 
(Ben Cheng/Manager)

1. REPORT HISTORY

Revision	Date	Revision Summary	Report Number
0	2016. 05. 13	Original Report.	EM-F160138

2. SUMMARY OF TEST RESULTS

Rule	Description	Results
15.207	Conducted Emission	PASS
15.205/ 15.209/ 15.249(a)	Radiated Band Edge and Radiated Spurious Emission Fundamental Frequency	PASS
----	Occupied Bandwidth 99% Power	Reference only
15.203	Antenna Requirement	PASS

3. GENERAL INFORMATION

3.1. Description of EUT

Product	Rowing machine
Model Number	YR001
Serial Number	N/A
Brand Name	DYACO
Applicant	Dyaco International Inc. 12F, No.111, Songjiang Road, Taipei 104, Taiwan
Manufacture	Dyaco International Inc. NO.1, Gong 1st Road, Cyuan Sing Industrial Park Hemei Town, Changhua County 508, Taiwan, R.O.C
Factory	Dyaco International Inc. NO.1, Gong 1st Road, Cyuan Sing Industrial Park Hemei Town, Changhua County 508, Taiwan, R.O.C
RF Features	2.4G
Transmit Type	1T1R
AC Adaptor	AHEAD, M/N: ADDT-1201500 DC Power Cord: Unshielded, Undetachable, 1.8m AC Power Cord: Unshielded, Undetachable, 1.8m
Date of Receipt of Sample	2016. 01. 12

3.2. EUT Specifications Assessed in Current Report

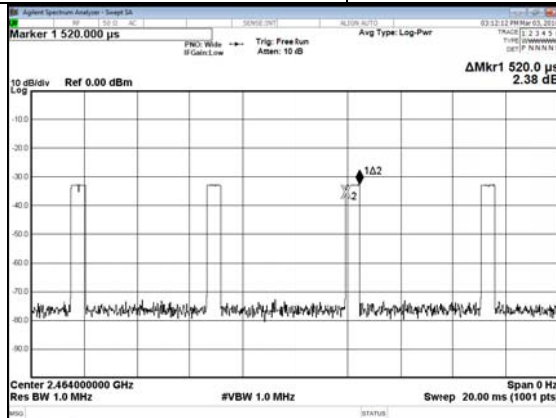
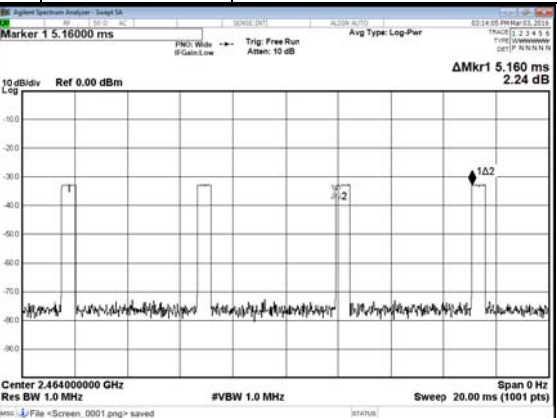
Fundamental Range (MHz)	Channel Number	Modulation	Data Rate (Mbps)
2464	1	GFSK	up to 2

3.3. Antenna Information

Antenna Part Number	Manufacture	Antenna Type	Frequency	Max Gain (dBi)
---	---	PCB Antenna	2.4GHz	-0.22

3.4. Test Configuration

Modulation	Duty Cycle (x)	T (ms)	Duty Cycle Factor (dB)
GFSK	0.1	N/A	-19.93

$TX_{on}/TX_{on+off}=0.52/5.160=0.1$

AC Conduction	
Test Case	Normal operation

Item	Test Channel
Radiated Band Edge ^{Note1}	64
Radiated Spurious Emission ^{Note1}	64
Fundamental Frequency	64
Occupied Bandwidth 99% Power	64

Note 1:

☒ Mobile Device

☐ Portable Device, and 3 axis were assessed. The worst scenario for Radiated Spurious Emission as follow:

- ☐ Lie
- ☐ Side
- ☐ Stand

Note 2: We performed testing of the highest and lowest data rate.

3.5. Setup Configuration

3.5.1. EUT Configuration for Power Line and Radiated Emission



3.6. Operating Condition of EUT

To set EUT RF function under continues transmitting and choosing channel.

3.7. Description of Test Facility

Test Firm Name	:	AUDIX Technology Corporation EMC Department No. 53-11, Dingfu, Linkou Dist., New Taipei City 244, Taiwan
Test Location & Facility	:	No. 8 Shielded Room No. 53-11, Dingfu, Linkou Dist., New Taipei City 244, Taiwan Semi-Anechoic Chamber No. 53-11, Dingfu, Linkou Dist., New Taipei City 244, Taiwan May 06, 2015 File on Federal Communication Commission Registration Number: 90993
NVLAP Lab. Code	:	200077-0
TAF Accreditation No	:	1724

3.8. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty
Conduction Test	150kHz~30MHz	$\pm 3.5\text{dB}$
Radiation Test (Distance: 3m)	30MHz~1000MHz	$\pm 3.68\text{dB}$
	1GHz 以上	$\pm 5.82\text{dB}$

Remark : Uncertainty = $k u_c(y)$

Test Item	Uncertainty
Occupied Bandwidth 99% Power	$\pm 1\text{kHz}$

4. MEASUREMENT EQUIPMENT LIST

4.1. Conducted Emission Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Test Receiver	R&S	ESR3	101774	2016. 02. 04	1 Year
2.	A.M.N.	R&S	ENV4200	100169	2015. 11. 17	1 Year
3.	Pulse Limiter	R&S	ESH3-Z2	100354	2016. 01. 17	1 Year
4.	Test Software	Audix	e3	V.6.120424	N.C.R.	N.C.R.

4.2. Radiated Emission Measurement

4.2.1. Frequency Range 30MHz~1000MHz (Semi-Anechoic Chamber)

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9010A-526	MY53400071	2015. 09. 14	1 Year
2.	Test Receiver	R&S	ESCS30	100338	2015. 06. 24	1 Year
3.	Amplifier	HP	8447D	2944A06305	2016. 02. 23	1 Year
4.	Bilog Antenna	CHASE	CBL6112D	33821	2016. 01. 30	1 Year
5.	Test Software	Audix	e3	V.6.110601	N.C.R.	N.C.R.

4.2.2. Above 1GHz (Semi-Anechoic Chamber)

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9010A-526	MY53400071	2015. 09. 14	1 Year
2.	Amplifier	Agilent	8449B	3008A00529	2016. 02. 02	1 Year
3.	2.4GHz Notch Filter	K&L	7NSL10-244 1.5E130.5-00	1	2015. 07. 28	1 Year
4.	3G High Pass Filter	Microwave Circuits	H3G018G1	484796	2015. 08. 26	1 Year
5.	Horn Antenna	EMCO	3115	9609-4927	2015. 06. 22	1 Year
6.	Horn Antenna	EMCO	3116	2653	2015. 10. 10	1 Year
7.	Test Software	Audix	e3	V.6.110601	N.C.R.	N.C.R.

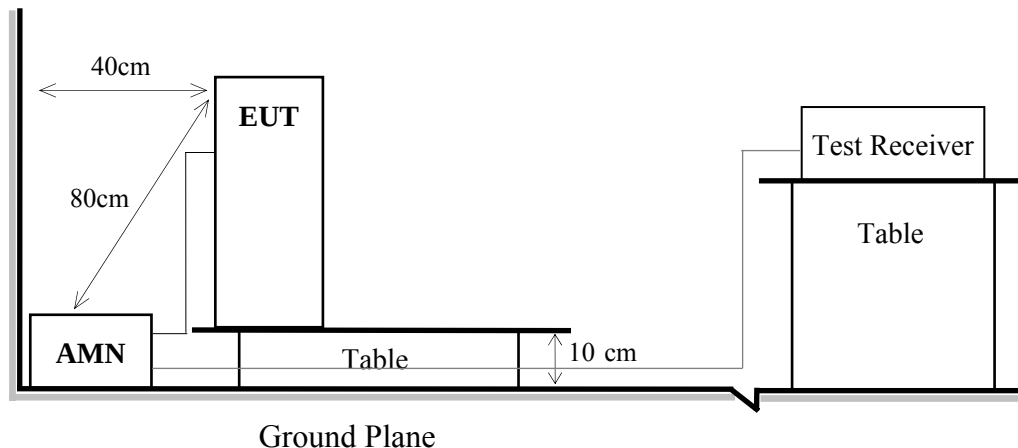
4.3. RF Conducted Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9030A-526	MY53310269	2015. 11. 28	1 Year

5. CONDUCTED EMISSION MEASUREMENT

5.1. Block Diagram of Test Setup

Shielded Room Setup Diagram



5.2. Power Line Conducted Emission Limit

Frequency	Conducted Limit	
	Quasi-Peak Level	Average Level
150kHz ~ 500kHz	66 ~ 56 dB μ V	56 ~ 46 dB μ V
500kHz ~ 5MHz	56 dB μ V	46 dB μ V
5MHz ~ 30MHz	60 dB μ V	50 dB μ V

Remark 1.: If the average limit is met when using a Quasi-Peak detector, the measurement using the average detector is not required.

2.: The lower limit applies to the band edges.

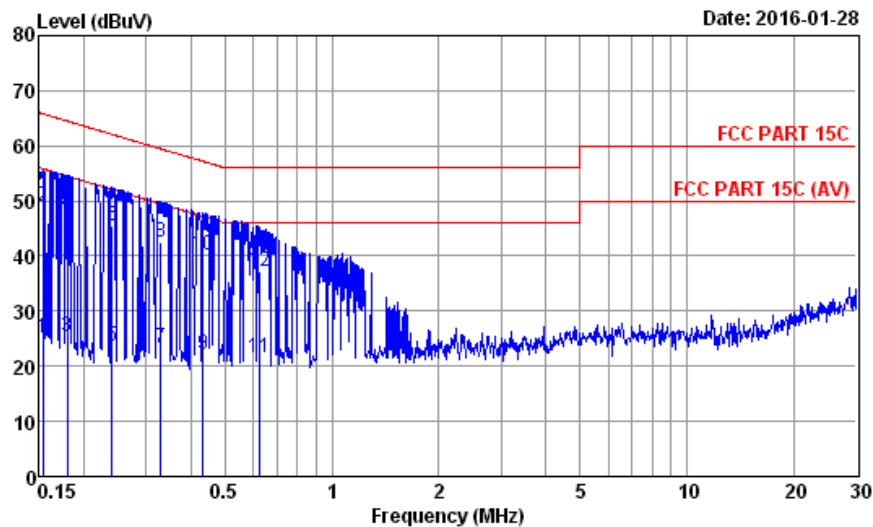
5.3. Test Procedure

- 5.3.1. To set up the EUT as indicated in ANSI C 63.10. The EUT was placed on the table which has 10 cm height to the ground and 40 cm distance to the conducting wall.
- 5.3.2. Power supplier of the EUT was connected to the AC mains through an Artificial Mains Network (A.M.N.).
- 5.3.3. The AC power supplies to all peripheral devices must be provided through line impedance stabilization network (L.I.S.N.)
- 5.3.4. Checking frequency range from 150 kHz to 30 MHz and record the emission which does not have 20 dB below limit.

5.4. Conducted Emission Measurement Results

PASSED.

Test Date	2016/01/28	Temp./Hum.	24°C/55%
Test Voltage	AC 120V, 60Hz		

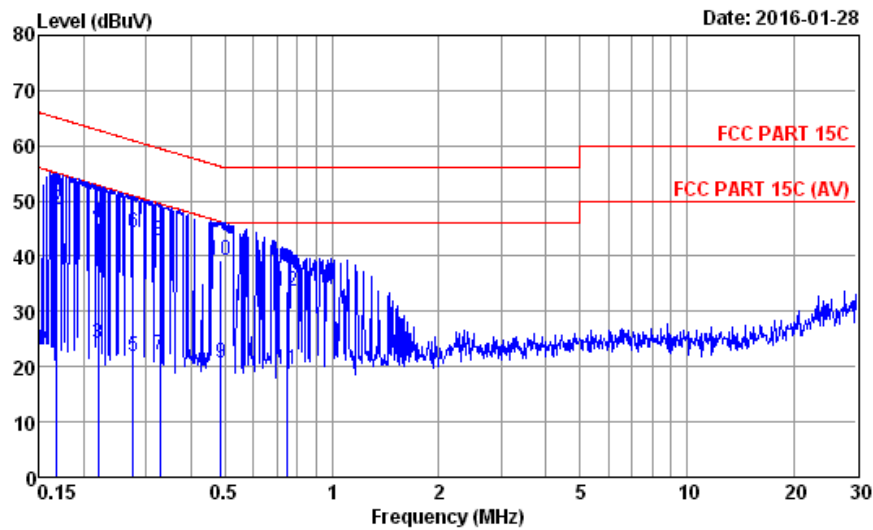


Site no. : No.8 Shielded Room
Condition : ENV4200 100169
Limit : FCC PART 15C
Env. / Ins. : 24°C / 55% ESR3 (1774)
EUT : YR001
Power Rating : 120Vac/60Hz
Test Mode : Operating

Data no. : 2
Phase : NEUTRAL
Engineer : Tim

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.153	11.43	0.03	9.87	3.80	25.13	55.82	30.69	Average
2	0.153	11.43	0.03	9.87	27.55	48.88	65.82	16.94	QP
3	0.180	11.32	0.03	9.87	4.21	25.43	54.50	29.07	Average
4	0.180	11.32	0.03	9.87	26.60	47.82	64.50	16.68	QP
5	0.240	11.18	0.03	9.87	2.67	23.75	52.08	28.33	Average
6	0.240	11.18	0.03	9.87	24.28	45.36	62.08	16.72	QP
7	0.330	11.07	0.03	9.87	2.25	23.22	49.44	26.22	Average
8	0.330	11.07	0.03	9.87	21.54	42.51	59.44	16.93	QP
9	0.433	11.00	0.03	9.87	1.23	22.13	47.20	25.07	Average
10	0.433	11.00	0.03	9.87	19.34	40.24	57.20	16.96	QP
11	0.627	10.98	0.04	9.88	0.62	21.52	46.00	24.48	Average
12	0.627	10.98	0.04	9.88	16.36	37.26	56.00	18.74	QP

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.



Site no. : No.8 Shielded Room Data no. : 1
Condition : ENV4200 100169 Phase : LINE
Limit : FCC PART 15C
Env. / Ins. : 24°C / 55% ESR3 (1774) Engineer : Tim
EUT : YR001
Power Rating : 120Vac/60Hz
Test Mode : Operating

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.168	10.73	0.03	9.87	3.98	24.61	55.08	30.47	Average
2	0.168	10.73	0.03	9.87	27.69	48.32	65.08	16.76	QP
3	0.220	10.66	0.03	9.87	3.61	24.17	52.83	28.66	Average
4	0.220	10.66	0.03	9.87	25.59	46.15	62.83	16.68	QP
5	0.276	10.62	0.03	9.87	1.37	21.89	50.94	29.05	Average
6	0.276	10.62	0.03	9.87	23.87	44.39	60.94	16.55	QP
7	0.329	10.59	0.03	9.87	1.69	22.18	49.49	27.31	Average
8	0.329	10.59	0.03	9.87	22.39	42.88	59.49	16.61	QP
9	0.486	10.55	0.03	9.88	0.29	20.75	46.23	25.48	Average
10	0.486	10.55	0.03	9.88	18.82	39.28	56.23	16.95	QP
11	0.751	10.54	0.04	9.88	-0.84	19.62	46.00	26.38	Average
12	0.751	10.54	0.04	9.88	13.11	33.57	56.00	22.43	QP

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.

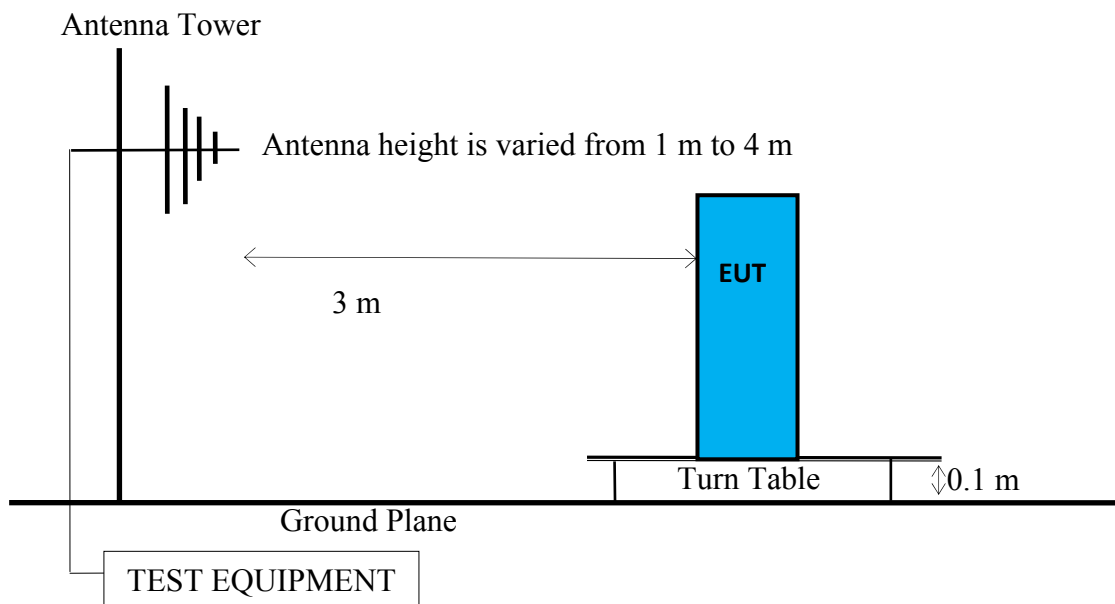
6. RADIATED EMISSION MEASUREMENT

6.1. Block Diagram of Test Setup

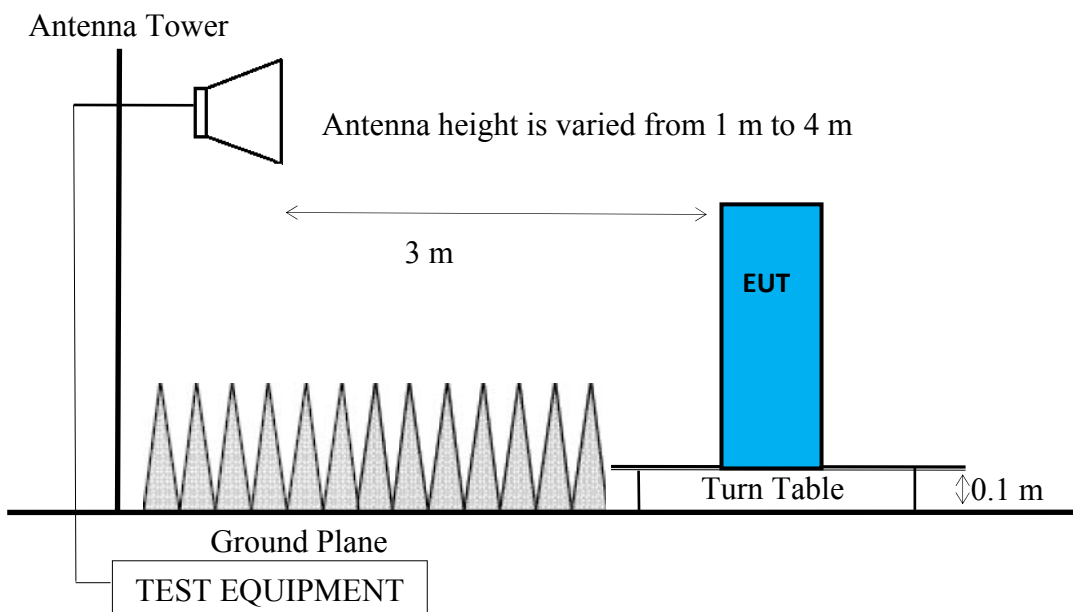
6.1.1. Block Diagram of EUT

Indicated as section 3.6

6.1.2. Semi-Anechoic Chamber (3m) Setup Diagram for 30-1000 MHz



6.1.3. Semi-Anechoic Chamber (3m) Setup Diagram for above 1GHz



6.2. Radiated Emission Limits

6.2.1. General Limit

The field strength of emissions from intentional radiators operated within these frequency bands shall comply with section 6.2.2. 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 Section 15.209, whichever is the lesser attenuation.

Frequency (MHz)	Distance (m)	Field Strengths Limits	
		$\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0
Above 1000	3	74.0 $\text{dB}\mu\text{V/m}$ (Peak) 54.0 $\text{dB}\mu\text{V/m}$ (Average)	

Remark : (1) $\text{dB}\mu\text{V/m} = 20 \log (\mu\text{V/m})$

- (2) The tighter limit applies to the edge between two frequency bands.
- (3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- (4) Fundamental and emission fall within operation band are exempted from this section.
- (5) Pursuant to ANSI C63.10: 6.6.4.3, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.

6.2.2. Limite for Fundamental & Harmonics Frequency

Fundamental Frequency	Field strength of fundamental		Field strength of harmonics	
	mV/m	$\text{dB}\mu\text{V/m}$	$\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$
902-928MHz	50	114 (Peak)	500	74 (Peak)
		94 (Average)		54 (Average)
2400-2483.5MHz	50	114 (Peak)	500	74 (Peak)
		94 (Average)		54 (Average)
5725-5875MHz	50	114 (Peak)	500	74 (Peak)
		94 (Average)		54 (Average)
24.0-24.25GHz	250	128 (Peak)	2500	88 (Peak)
		108 (Average)		68 (Average)

Remark: $\text{mV/m} = 1000 \mu\text{V/m}$; $\text{dB}\mu\text{V/m} = 20 \log (\mu\text{V/m})$

6.3. Test Procedure

The EUT setup on the turn table which has 0.1 m height to the ground. The turn table rotated 360 degrees and antenna varied from 1 m to 4 m to find the maximum emission level. Both horizontal and vertical polarization are required. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2013 regulation.

Frequency below 1 GHz:

Spectrum Analyzer is used for pre-testing with following setting:

- (1) RBW = 120KHz
- (2) VBW $\geq 3 \times$ RBW.
- (3) Detector = Peak.
- (4) Sweep time = auto.
- (5) Trace mode = max hold.
- (6) Allow sweeps to continue until the trace stabilizes.
- (7) When peak-detected value is lower than limit that the measurement using the Q.P. detector is not required. Otherwise using Q.P. for finally measurement.

Frequency above 1GHz to 10th harmonic:

Peak Detector:

- (1) RBW = 1MHz
- (2) VBW $\geq 3 \times$ RBW.
- (3) Detector = Peak.
- (4) Sweep time = auto.
- (5) Trace mode = max hold.
- (6) Allow sweeps to continue until the trace stabilizes.
- (7) When peak-detected value is lower than limit that the measurement using the average detector is not required. Otherwise using average for finally measurement.

Average Measurement:

☐ **Option 1:**

- (1) RBW = 1 MHz
- (2) VBW = 1/T or 10Hz when duty cycle >98%.
- (3) Detector = Peak.
- (4) Sweep time = auto.
- (5) Trace mode = max hold.
- (6) Allow sweeps to continue until the trace stabilizes.

☒ **Option 2:**

Average Emission Level= Peak Emission Level+ D.C.C.F.

6.4. Measurement Result Explanation

- ☒ Peak Emission Level = Antenna Factor + Cable Loss + Meter Reading
- ☐ Average Emission Level = Antenna Factor + Cable Loss + Meter Reading
- ☒ Average Emission Level = Peak Emission Level + DCCF
Duty Cycle Correction Factor (DCCF) = $20\log(TX_{on}/TX_{on+off})$ presented in section 3.4
- ☐ EPR = Peak Emission Level - 95.2dB - 2.14dBi

6.5. Test Results

PASSED.

6.5.1. Emissions within Restricted Frequency Bands

6.5.1.1. Frequency Below 1 GHz

Test Date	2016/03/02	Temp./Hum.	23°C/53%
Test Voltage	AC 120V, 60Hz	Frequency	TX 2464MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
101.78	11.03	3.23	7.58	21.84	43.50	21.66	Peak
165.80	9.65	3.73	4.57	17.95	43.50	25.55	Peak
471.35	16.60	6.24	3.86	26.70	46.00	19.30	Peak
580.96	18.08	6.49	2.38	26.95	46.00	19.05	Peak

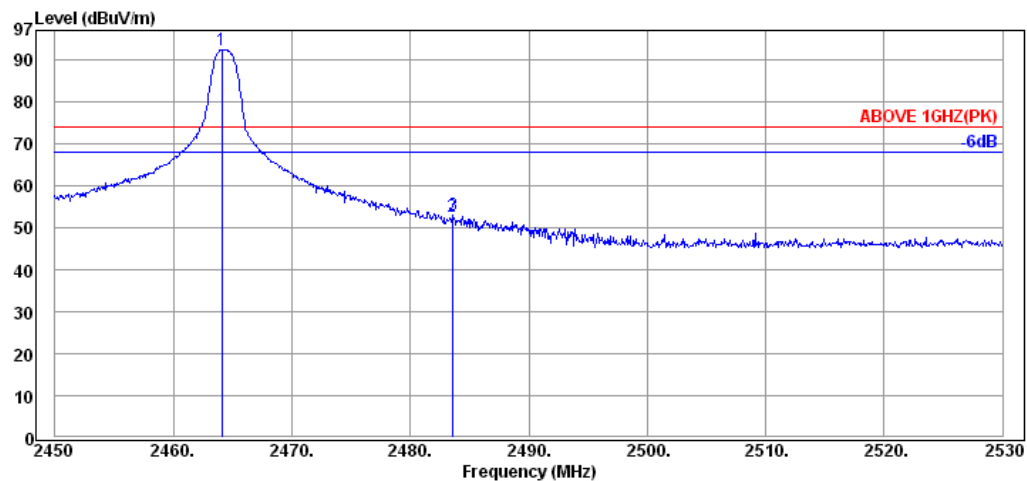
Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
101.78	11.03	3.23	6.17	20.43	43.50	23.07	Peak
165.80	9.65	3.73	5.12	18.50	43.50	25.00	Peak
405.39	15.65	5.71	3.51	24.87	46.00	21.13	Peak
580.96	18.08	6.49	2.79	27.36	46.00	18.64	Peak

6.5.1.2. Frequency Above 1 GHz to 10th harmonics

Band Edge:

Test Date	2016/03/02	Temp./Hum.	23°C/53%
Test Voltage	AC 120V, 60Hz	Frequency	TX 2464MHz



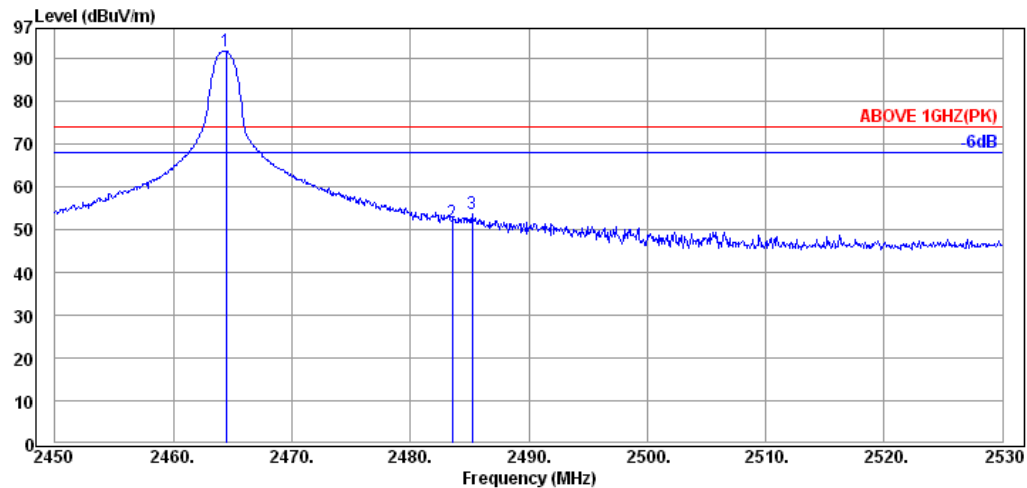
Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2464.08	28.47	5.34	58.53	92.34	---	---	Peak
2483.52	28.49	5.37	18.82	52.68	74.00	21.32	Peak
2483.60	28.49	5.37	19.09	52.95	74.00	21.05	Peak

Emission Frequency (MHz)	Peak Emission Level (dB/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
2483.52	52.68	-19.93	32.75	54.00	21.25	Average
2483.60	52.95	-19.93	33.02	54.00	20.98	Average

Remark: Lower band edge was assessed in spurious emission for the device only implemented 1 channel and have a bit far to the edge frequency, thus we do not provide the plot of lower band edge.

Test Date	2016/03/02	Temp./Hum.	23°C/53%
Test Voltage	AC 120V, 60Hz	Frequency	TX 2464MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2464.48	28.47	5.34	57.75	91.56	---	---	Peak
2483.52	28.49	5.37	17.84	51.70	74.00	22.30	Peak
2485.20	28.49	5.37	19.81	53.67	74.00	20.33	Peak

Emission Frequency (MHz)	Peak Emission Level (dB/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
2483.52	51.70	-19.93	31.77	54.00	22.23	Average
2485.20	53.67	-19.93	33.74	54.00	20.26	Average

Remark: Lower band edge was assessed in spurious emission for the device only implemented 1 channel and have a bit far to the edge frequency, thus we do not provide the plot of lower band edge.

6.5.2. Emissions outside the frequency band:

The emissions (up to 25GHz) not reported for there is no emission be found.

Test Date	2016/03/02	Temp./Hum.	23°C/53%
Test Voltage	AC 120V, 60Hz	Frequency	TX 2464MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4930.00	33.25	8.23	18.05	59.53	74.00	14.47	Peak
6895.00	34.98	9.78	8.89	53.65	74.00	20.35	Peak

Emission Frequency (MHz)	Peak Emission Level (dB/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
4930.00	59.53	-19.93	39.60	54.00	14.40	Average
6895.00	53.65	-19.93	33.72	54.00	20.28	Average

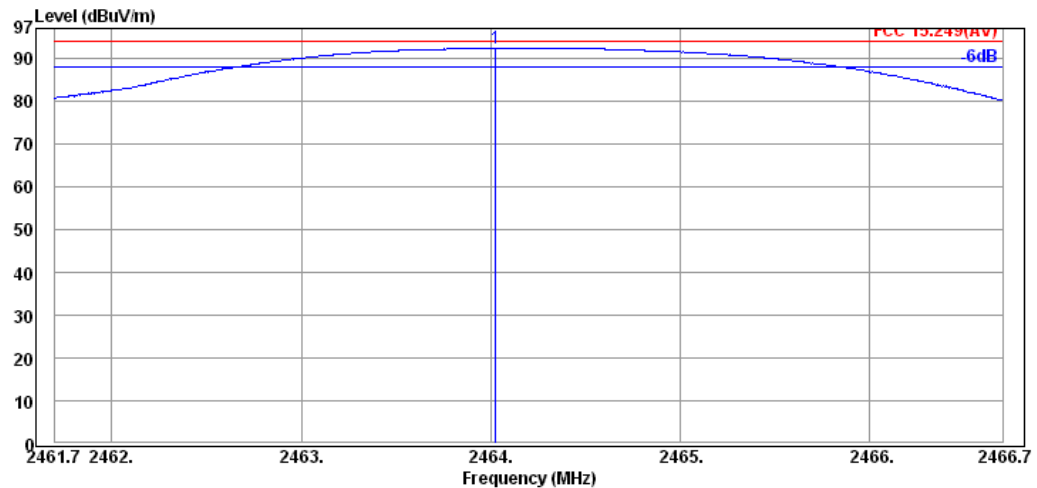
Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4930.00	33.25	8.23	15.74	57.22	74.00	16.78	Peak
6895.00	34.98	9.78	7.14	51.90	74.00	22.10	Peak

Emission Frequency (MHz)	Peak Emission Level (dB/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
4930.00	57.22	-19.93	37.29	54.00	16.71	Average
6895.00	51.90	-19.93	31.97	54.00	22.03	Average

6.5.3. Fundamental Frequency:

Test Date	2016/03/02	Temp./Hum.	23°C/53%
Test Voltage	AC 120V, 60Hz	Frequency	TX 2464MHz



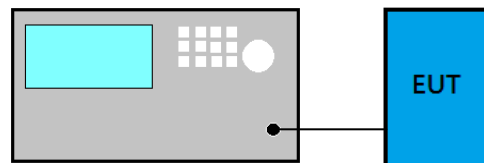
Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2464.03	28.47	5.34	58.47	92.28	94.00	1.72	Peak

Remark: Horizontal is the strongest polarization and peak value has complied with limit, so Horizontal won't be listed in test report.

7. 20dB BANDWIDTH MEASUREMENT

7.1. Block Diagram of Test Setup



7.2. Specification Limits

Alternatively, frequency hopping systems operating in the 2400-2483.5MHz band may have hopping channel carrier frequencies that are separated by 25kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater.

7.3. Test Procedure

Following measurement procedure is reference to DA00-705:

- (1) Set RBW close to 1% of OBW.
- (2) Set $VBW \geq RBW$.
- (3) Detector = Peak.
- (4) Trace mode = max hold.
- (5) Sweep = auto couple.
- (6) Allow the trace to stabilize.
- (7) Setting channel bandwidth function x dB to -20 dB to record the final bandwidth.

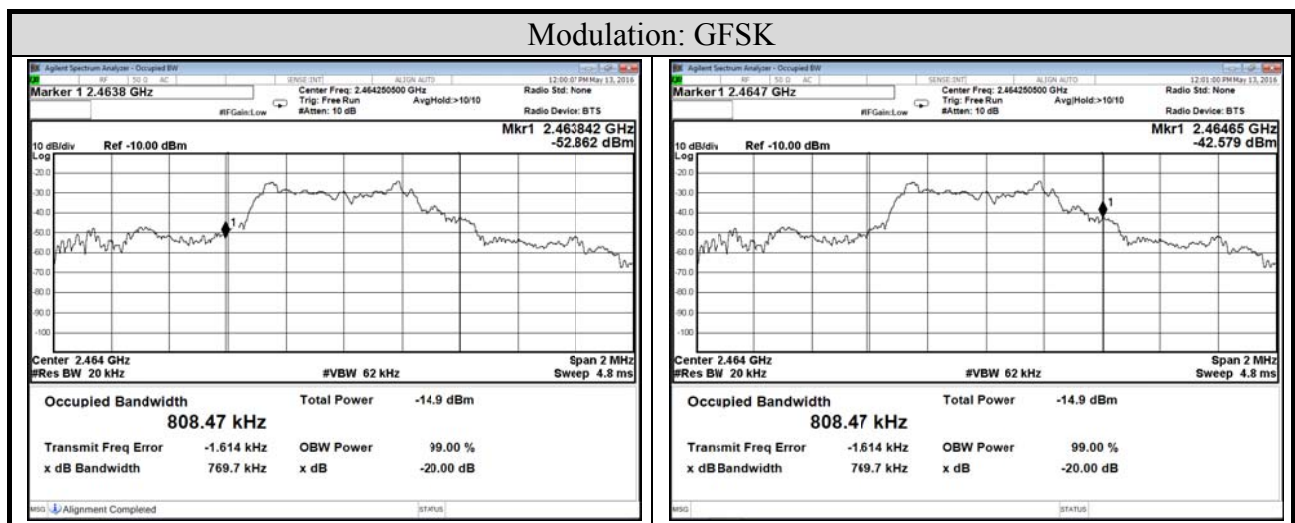
7.4. Test Results

Test Date	2016/05/13	Temp./Hum.	23°C/51%
Cable Loss	---	Test Voltage	AC 120V, 60Hz

7.4.1. 20dB Bandwidth Result

Modulation	Centre Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	2464	0.7697

7.4.2. Measurement Plots



8. DEVIATION TO TEST SPECIFICATIONS

【NONE】