

TEST REPORT

FCC PART 15.209

Report Reference No...... : **MTEB26020120-R**

FCC ID...... : **YMX-EC8610M**

Compiled by

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Date of issue..... : **Feb.24,2026**

Representative Laboratory Name.: **Shenzhen Most Technology Service Co., Ltd.**

Address..... : East A, 1/F., New Aolin Factory Buiding, Langshan Erlu, North Area, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, China

Applicant's name..... : **XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO.,LTD.**

Address..... : (5/F)NO.168, QIANPU ROAD,SIMING DISTRICT,XIAMEN,Fujian CHINA

Test specification/ Standard..... : **FCC Rules and Regulations Part 15 Subpart C (Section 15.209), ANSI C63.10: 2020**

TRF Originator..... : Shenzhen Most Technology Service Co., Ltd.

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Test item description..... : Massage Chair

Trade Mark..... : N/A

Model/Type reference..... : Ethos Duo 4D+3D

Listed Models : EC-8610M, EC-8610M1, Vega Duo 4D+3D

Modulation Type..... : MSK

Operation Frequency..... : 110-205KHz

Rating..... : 110-120V~ 60Hz

Hardware Version : 1.0

Software Version : 1.0

Result..... : **PASS**

TEST REPORT

Equipment under Test : Massage Chair

Model /Type : Ethos Duo 4D+3D

Listed Models : EC-8610M, EC-8610M1, Vega Duo 4D+3D

Remark :
It's just a different model. Everything else is the same

Applicant : **XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO.,LTD.**

Address : (5/F)NO.168, QIANPU ROAD,SIMING DISTRICT,XIAMEN,Fujian
CHINA

Manufacturer : **XIAMEN HEALTHCARE ELECTRONIC CO.,LTD.**

Address : 65-66#, 62-63# BUILDING, SIMING ZONE, TONGAN INDUSTRIAL
DISTRICT, XIAMEN CITY, FUJIAN PROVINCE, P.R.CHINA

Test Result:	PASS
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2026.02.24	Initial Issue	Alisa Luo

2. TEST STANDARDS

The tests were performed according to following standards:

The tests were performed according to following standards:

[ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024](#) : American National Standard for Testing Unlicensed Wireless Devices
FCC Rules and Regulations Part 15 Subpart C (Section 15.207): Conducted limits.
FCC Rules and Regulations Part 15 Subpart C (Section 15.209): Radiated emission limits; general requirements.

3. SUMMARY

3.1. General Remarks

Date of receipt of test sample	:	2026.02.06
Testing commenced on	:	2026.02.07
Testing concluded on	:	2026.02.24

3.2. Product Description

Product Name:	Massage Chair
Model/Type reference:	Ethos Duo 4D+3D
Power Supply:	AC 120V/60Hz
Testing sample ID:	MTYP12156
Modulation:	MSK
Operation frequency:	110-205KHz
Antenna type:	Coil Antenna,0dBi

3.3. Equipment Under Test

Power supply system utilised

Power supply voltage	:	☐ 230V / 50 Hz	☒ 120V / 60Hz
		☐ 12 V DC	☐ 24 V DC
		☐ Other (specified in blank below)	

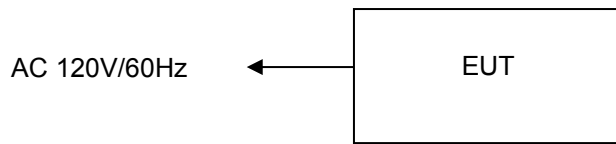
3.4. Short description of the Equipment under Test (EUT)

This is a Massage Chair For more details, refer to the user's manual of the EUT.

3.5. EUT operation mode

Test Item	Test Modes	Test Voltage
Conducted Emission	Full load mode	AC 120V/60Hz
	Half load mode	AC 120V/60Hz
	Null load mode	AC 120V/60Hz
Radiated Emission	Full load mode	AC 120V/60Hz
	Half load mode	AC 120V/60Hz
	Null load mode	AC 120V/60Hz
Note: The mode is a was the worst case and only the data of the worst case record in this report.		

3.6. Block Diagram of Test Setup



3.7. Test Item (Equipment Under Test) Description*

Short designation	EUT Name	EUT Description	Serial number	Hardware status	Software status
EUT A	/	/	/	/	/
EUT B	/	/	/	/	/

*: declared by the applicant. According to customers information EUTs A and B are the same devices.

3.8. Auxiliary Equipment (AE) Description

AE short designation	EUT Name (if available)	EUT Description	Serial number (if available)	Software (if used)
AE 1			/	/
AE 2				

3.9. Antenna Information*

Short designation	Antenna Name	Antenna Type	Frequency Range	Serial number	Antenna Peak Gain
Antenna 1	---	/	Coil Antenna	---	0dBi

*: declared by the applicant.

3.10. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- ☐ - supplied by the manufacturer
- ☐ - Supplied by the lab

☒	ADAPTER	M/N:	
☐		Manufacturer:	

3.11. Modifications

No modifications were implemented to meet testing criteria.

4. TEST ENVIRONMENT

4.1. Address of the test laboratory

Shenzhen Most Technology Service Co., Ltd.

East A, 1/F., New Aolin Factory Building, Langshan Erlu, North Area, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, China

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 0031192610

Shenzhen Most Technology Service Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

A2LA-Lab Cert. No.: 6343.01

Shenzhen Most Technology Service Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

4.2. Environmental conditions

Radiated Emission:

Temperature:	23 ° C
Humidity:	48 %
Atmospheric pressure:	950-1050mbar

Conducted testing:

Temperature:	24 ° C
Humidity:	45 %
Atmospheric pressure:	950-1050mbar

4.3. Test Description

FCC and IC Requirements		
FCC Part 15.203	Antenna Requirement	PASS
FCC Part 15.207	AC Power Conducted Emission	PASS
FCC Part 15.209	Radiated emission; Radiated Spurious Emissions	PASS
FCC Part 15.215	20dB Occupied Bandwidth	PASS

Remark:

1. The measurement uncertainty is not included in the test result.
2. NA = Not Applicable; NP = Not Performed

4.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen Most Technology Service Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Most Technology Service Co., Ltd. is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.10 dB	(1)
Radiated Emission	1~18GHz	4.32 dB	(1)
Radiated Emission	18-40GHz	5.54 dB	(1)
Conducted Disturbance	0.15~30MHz	3.12 dB	(1)
20dB Bandwidth	/	5%	(1)
Maximum Conducted Output Power	/	0.80dB	(1)
Spurious RF Conducted Emission	/	1.6dB	(1)

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

4.5. Equipments Used during the Test

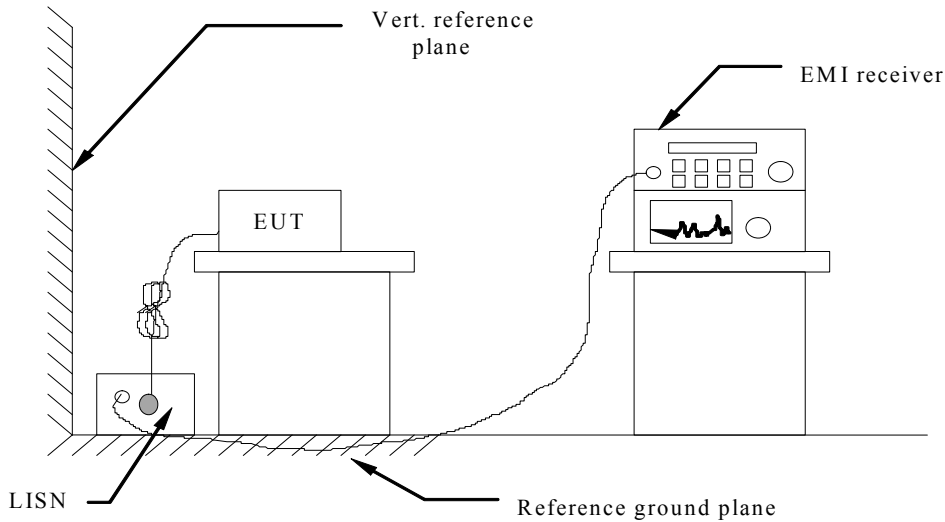
Item	Equipment	Manufacturer	Model No.	Serial No.	Firmware versions	Last Cal.
1.	L.I.S.N.	R&S	ENV216	100093	/	2025/03/04
2	Three-phase artificial power network	Schwarzback Mess	NNLK8129	8129178	/	2025/03/04
3.	Receiver	R&S	ESCI	100492	V3.0-10-2	2025/03/04
4	Receiver	R&S	ESPI	101202	V3.0-10-2	2025/03/04
5	Spectrum analyzer	Agilent	9020A	MT-E306	A14.16	2025/03/04
6	Bilong Antenna	Sunol Sciences	JB3	A121206	/	2025/11/22
7	Horn antenna	HF Antenna	HF Antenna	MT-E158	/	2025/03/16
8	Loop antenna	Beijing Daze	ZN30900B	/	/	2025/03/04
9	Horn antenna	R&S	OBH100400	26999002	/	2025/03/16
10	Wireless Communication Test Set	R&S	CMW500	/	CMW-BASE-3.7.21	2025/03/04
11	Spectrum analyzer	R&S	FSP	100019	V4.40 SP2	2025/03/04
12	High gain antenna	Schwarzbeck	LB-180400KF	MT-E389	/	2025/03/04
13	Preamplifier	Schwarzbeck	BBV 9743	MT-E390	/	2025/03/04
14	Pre-amplifier	EMCI	EMC051845S E	MT-E391	/	2025/03/04
15	Pre-amplifier	Agilent	83051A	MT-E392	/	2025/03/04
16	High pass filter unit	Tonscend	JS0806-F	MT-E393	/	2025/03/04
17	RF Cable(below1GHz)	Times	9kHz-1GHz	MT-E394	/	2025/03/04
18	RF Cable(above 1GHz)	Times	1-40G	MT-E395	/	2025/03/04
19	RF Cable (9KHz-40GHz)	Tonscend	170660	N/A	/	2025/03/04
20	Power meter	R&S	NRVS	100444	/	2025/03/04

Note: The Cal.Interval was one year.

5. TEST CONDITIONS AND RESULTS

5.1. AC Power Conducted Emission

TEST CONFIGURATION



TEST PROCEDURE

- 1 The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.1 meters is used and is placed on the ground plane as per ANSIC63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024.
- 2 Support equipment, if needed, was placed as per ANSIC63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
- 3 All I/O cables were positioned to simulate typical actual usage as per ANSIC63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
- 4 The EUT received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5 All support equipments received AC power from a second LISN, if any.
- 6 The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7 Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
- 8 During the above scans, the emissions were maximized by cable manipulation.

AC Power Conducted Emission Limit

For unintentional device, according to RSS Gen 8.8 and § 15.207(a) Line Conducted Emission Limits is as following:

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

TEST RESULTS

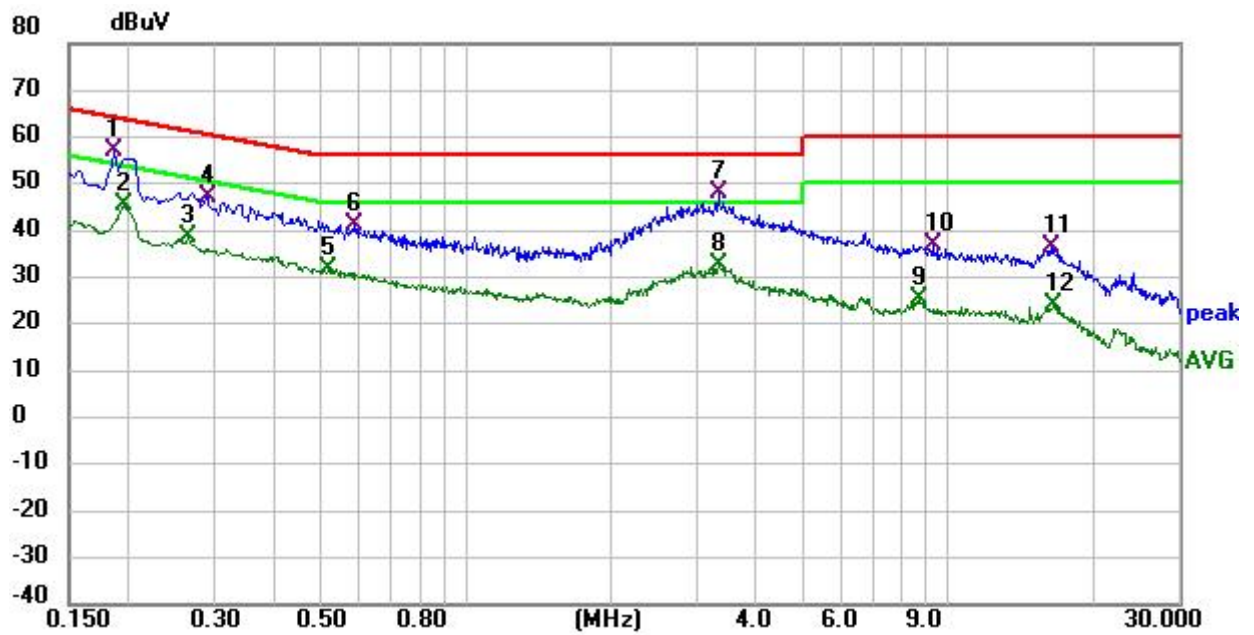
Pass---The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.
(Test mode: Full load mode)

Power Supply

AC 120V/60Hz

Line

L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1 *	0.1860	47.34	9.60	56.94	64.21	-7.27	QP	P	
2	0.1940	35.99	9.60	45.59	53.86	-8.27	AVG	P	
3	0.2660	28.94	9.60	38.54	51.24	-12.70	AVG	P	
4	0.2900	37.79	9.59	47.38	60.52	-13.14	QP	P	
5	0.5180	22.10	9.59	31.69	46.00	-14.31	AVG	P	
6	0.5899	31.56	9.59	41.15	56.00	-14.85	QP	P	
7	3.3300	38.52	9.61	48.13	56.00	-7.87	QP	P	
8	3.3300	23.02	9.61	32.63	46.00	-13.37	AVG	P	
9	8.7299	15.62	9.67	25.29	50.00	-24.71	AVG	P	
10	9.2860	27.21	9.68	36.89	60.00	-23.11	QP	P	
11	16.3340	26.94	9.71	36.65	60.00	-23.35	QP	P	
12	16.6060	14.16	9.71	23.87	50.00	-26.13	AVG	P	

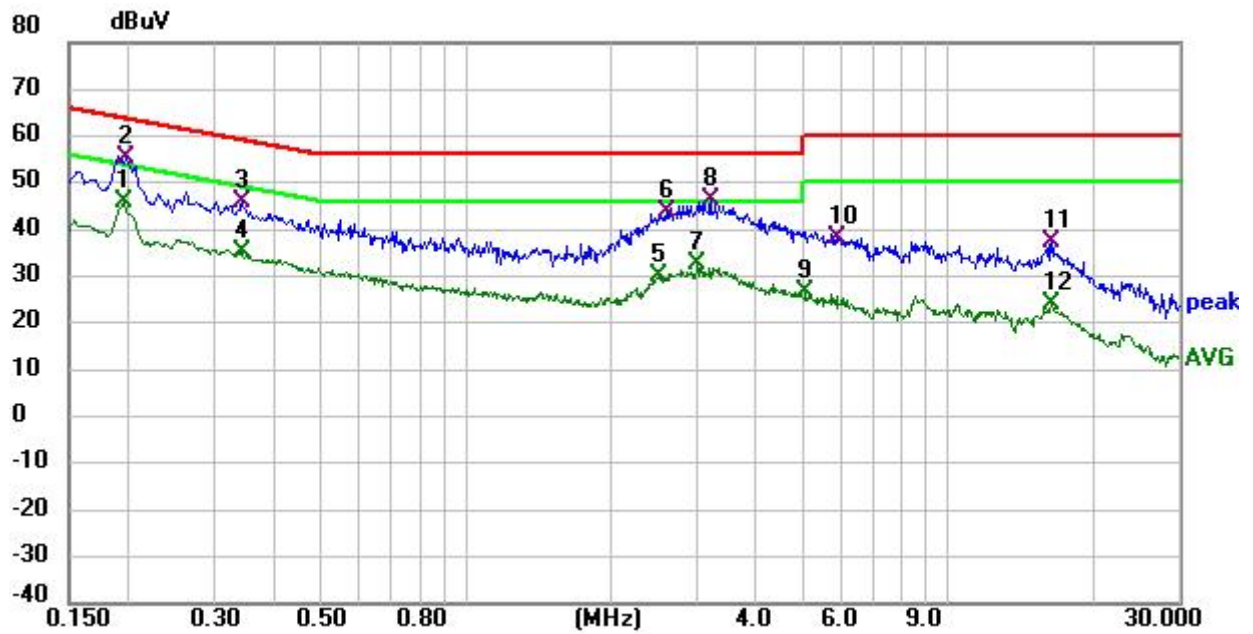
*:Maximum data x:Over limit !:over margin

Power Supply

AC 120V/60Hz

Line

N



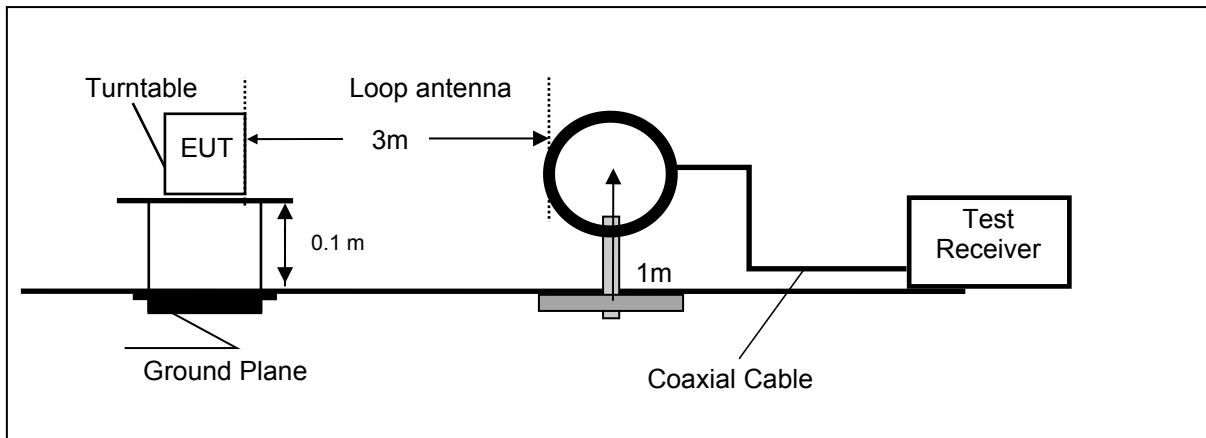
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1 *	0.1940	36.32	9.60	45.92	53.86	-7.94	AVG	P	
2	0.1980	45.91	9.60	55.51	63.69	-8.18	QP	P	
3	0.3420	36.32	9.59	45.91	59.15	-13.24	QP	P	
4	0.3420	25.72	9.59	35.31	49.15	-13.84	AVG	P	
5	2.5220	20.31	9.61	29.92	46.00	-16.08	AVG	P	
6	2.5980	34.26	9.61	43.87	56.00	-12.13	QP	P	
7	3.0100	22.84	9.61	32.45	46.00	-13.55	AVG	P	
8	3.2139	36.82	9.61	46.43	56.00	-9.57	QP	P	
9	5.0620	16.84	9.63	26.47	50.00	-23.53	AVG	P	
10	5.8700	28.77	9.64	38.41	60.00	-21.59	QP	P	
11	16.3540	27.74	9.71	37.45	60.00	-22.55	QP	P	
12	16.4100	14.54	9.71	24.25	50.00	-25.75	AVG	P	

*:Maximum data x:Over limit !:over margin

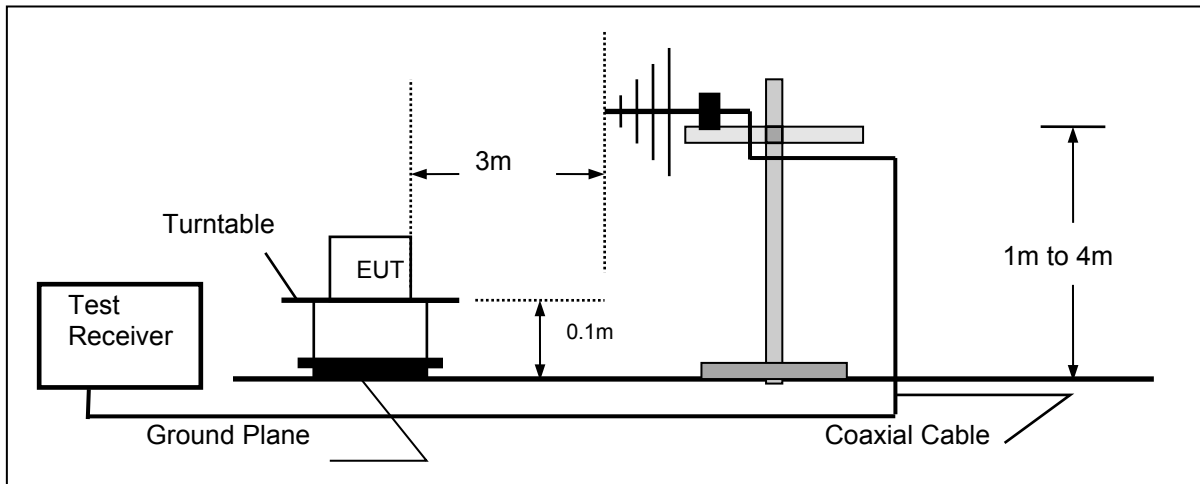
5.2. Radiated Emission

TEST CONFIGURATION

Frequency range 9 KHz – 30MHz



Frequency range 30MHz – 1000MHz



TEST PROCEDURE

1. The EUT was placed on a turn table which is 0.1m above ground plane when testing frequency range 9 KHz – 1GHz. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0° to 360° to acquire the highest emissions from EUT.
2. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
3. Repeat above procedures until all frequency measurements have been completed.
4. The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
9KHz-30MHz	Active Loop Antenna	3
30MHz-1GHz	Ultra-Broadband Antenna	3
1GHz-18GHz	Double Ridged Horn Antenna	3
18GHz-25GHz	Horn Antenna	1

5. Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector
9KHz-150KHz	RBW=200Hz/VBW=3KHz, Sweep time=Auto	QP
150KHz-30MHz	RBW=9KHz/VBW=100KHz, Sweep time=Auto	QP
30MHz-1GHz	RBW=120KHz/VBW=1000KHz, Sweep time=Auto	QP
1GHz-40GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto	Peak

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

$$\text{Transd} = AF + CL - AG$$

RADIATION LIMIT

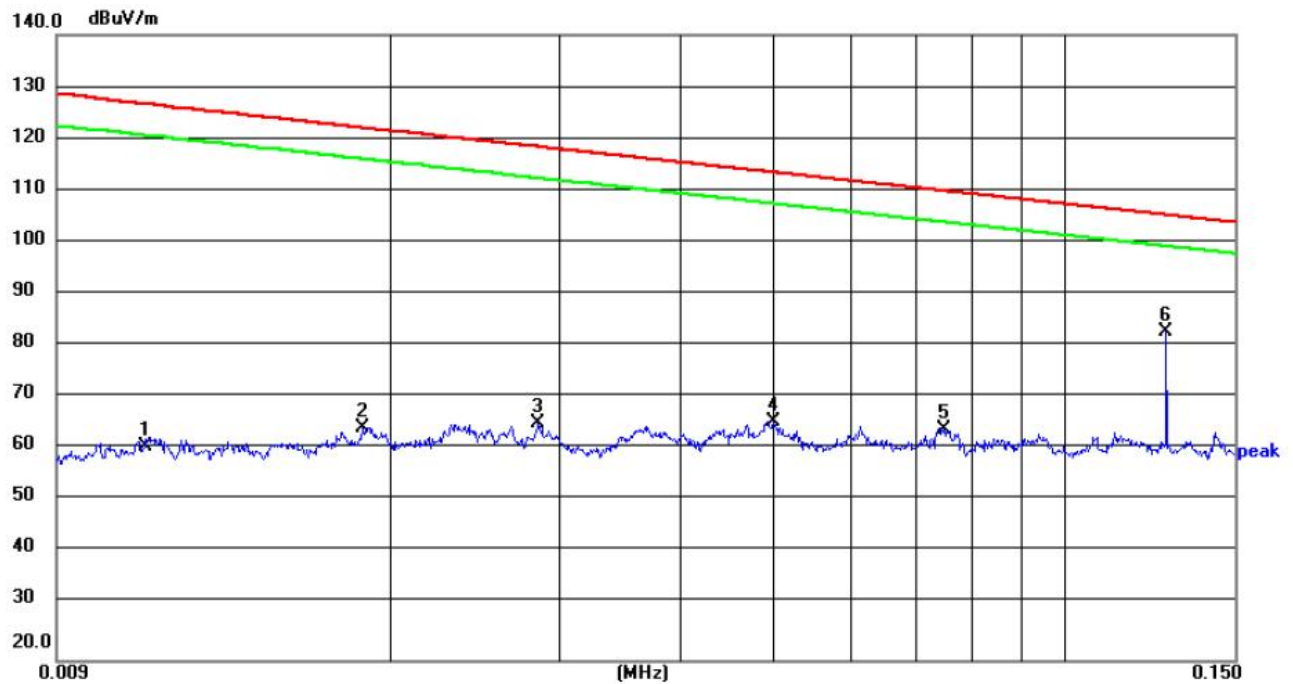
For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission out of authorized band shall not exceed the following table at a 3 meters measurement distance.

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a)

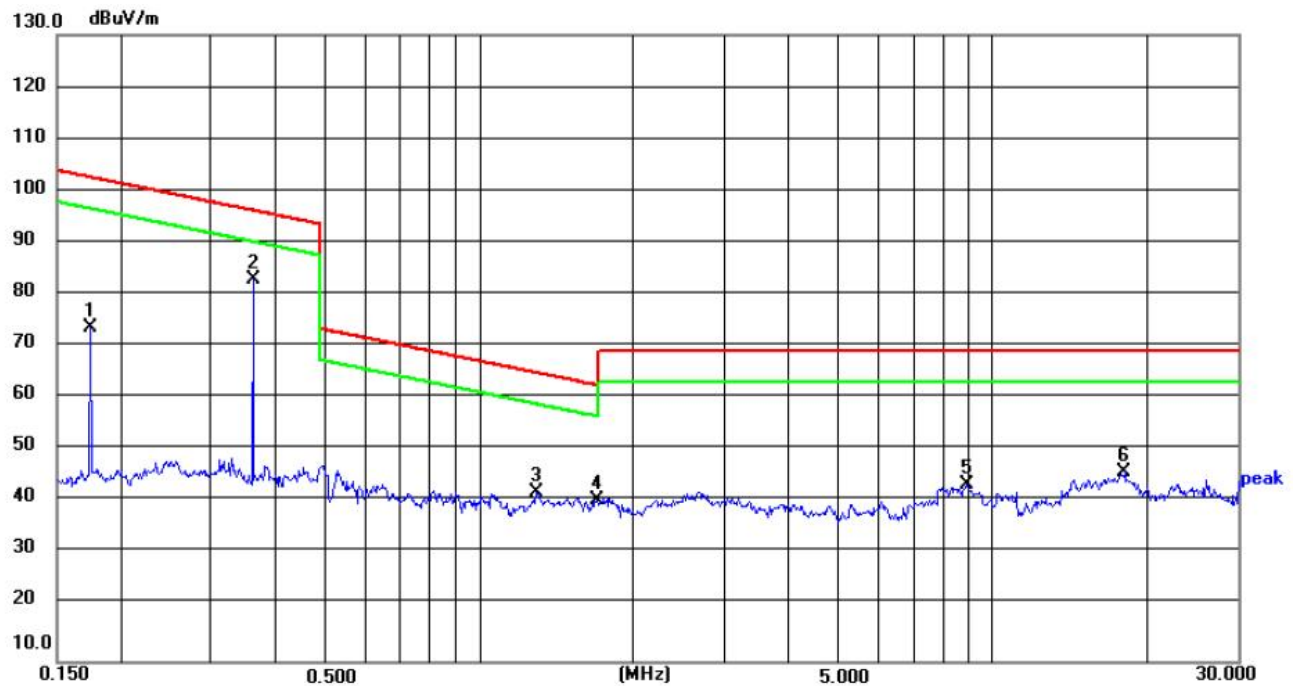
Except when the requirements applicable to a given device state otherwise, emissions from licence-exempt transmitters shall comply with the field strength limits shown in table below. Additionally, the level of any transmitter emission shall not exceed the level of the transmitter's fundamental emission

Unwanted emissions that fall into restricted bands shall comply with the limits specified in RSS-Gen; and Unwanted emissions that do not fall within the restricted frequency bands shall comply either with the limits specified in the applicable RSS or with those specified in this RSS-Gen.

Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)
0.009-0.49	3	$20\log(2400/F(\text{KHz})) + 40\log(300/3)$	$2400/F(\text{KHz})$
0.49-1.705	3	$20\log(24000/F(\text{KHz})) + 40\log(30/3)$	$24000/F(\text{KHz})$
1.705-30	3	$20\log(30) + 40\log(30/3)$	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

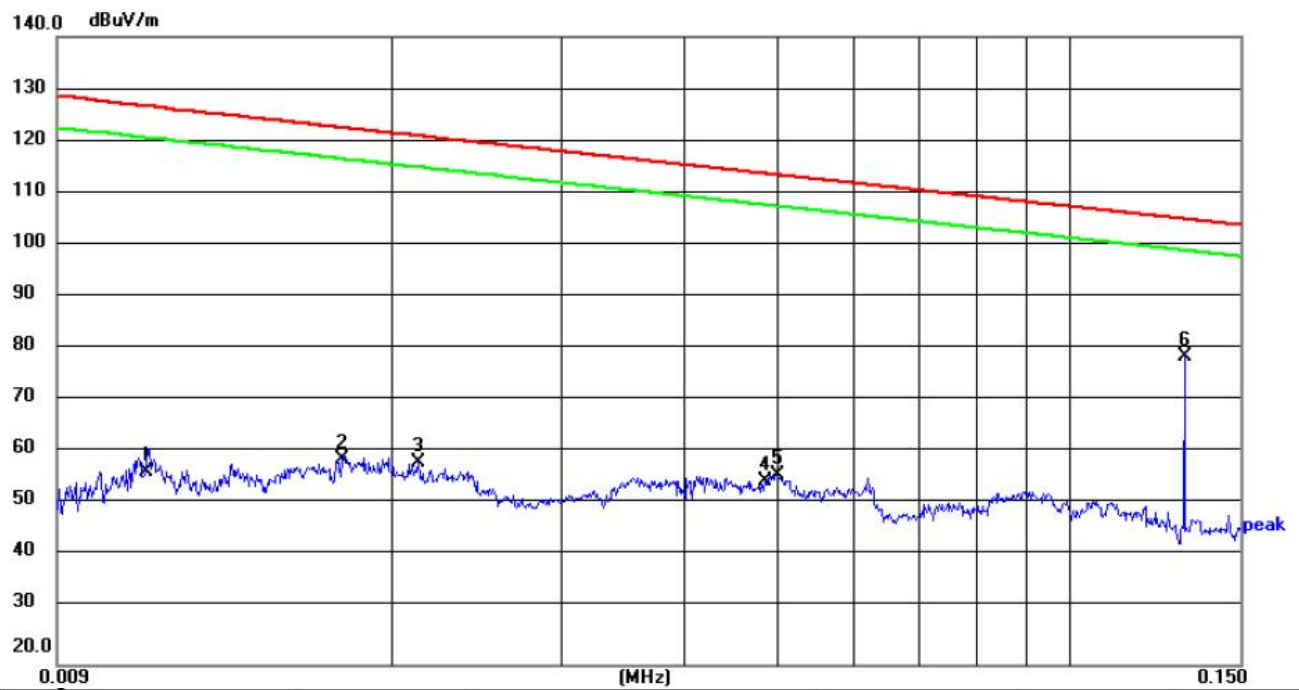
Radiated Emissions**Below 9K~30MHz****Coaxial:**

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	0.0111	39.75	21.36	61.11	126.70	-65.59	peak
2	0.0187	43.89	20.88	64.77	122.17	-57.40	peak
3	0.0284	44.40	21.30	65.70	118.54	-52.84	peak
4	0.0500	43.18	22.60	65.78	113.62	-47.84	peak
5	0.0748	41.74	22.68	64.42	110.13	-45.71	peak
6	0.1274	61.09	22.12	83.21	105.50	-22.29	peak

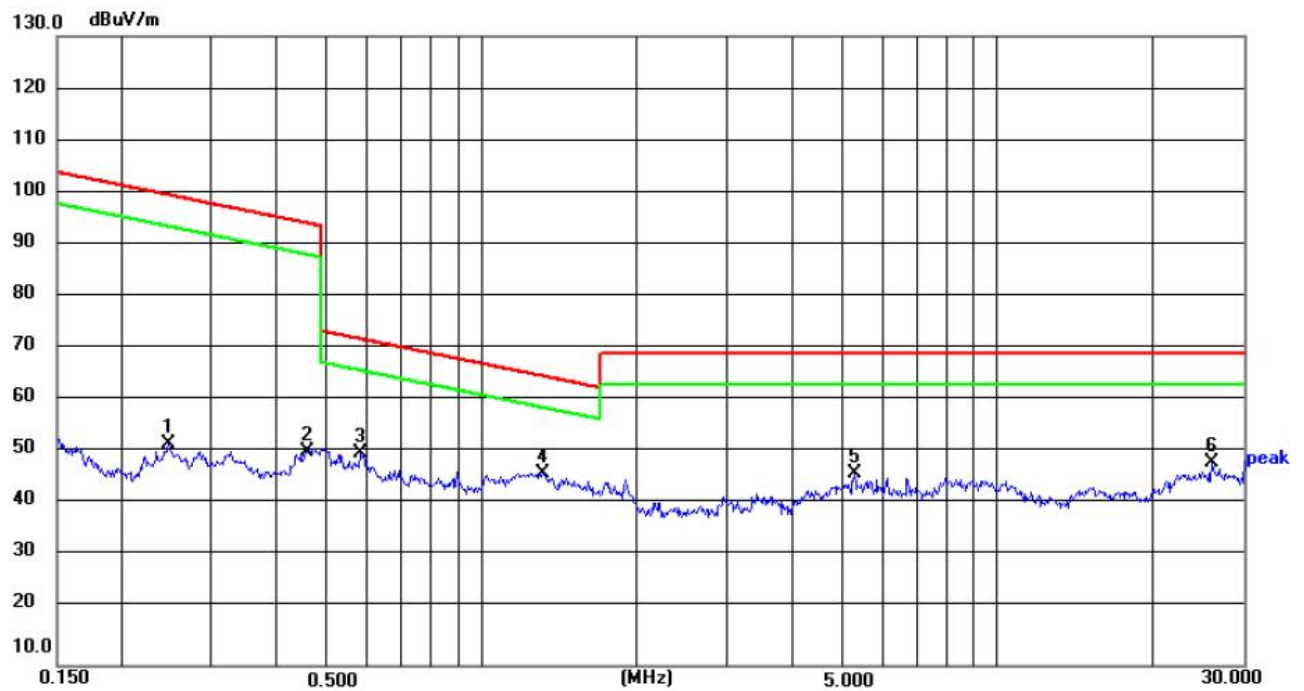


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	0.1740	52.29	21.78	74.07	102.79	-28.72	peak
2	0.3600	61.50	21.58	83.08	96.45	-13.37	peak
3	1.2890	19.87	22.54	42.41	65.40	-22.99	peak
4	1.6891	18.62	22.46	41.08	63.05	-21.97	peak
5	8.8690	21.23	22.76	43.99	69.54	-25.55	peak
6	18.0393	22.81	23.48	46.29	69.54	-23.25	peak

Coplane:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	0.0111	35.75	21.36	57.11	126.70	-69.59	peak
2	0.0177	38.39	20.94	59.33	122.65	-63.32	peak
3	0.0212	37.89	20.87	58.76	121.08	-62.32	peak
4	0.0483	32.72	22.50	55.22	113.93	-58.71	peak
5	0.0500	33.68	22.60	56.28	113.62	-57.34	peak
6	0.1314	56.92	22.08	79.00	105.23	-26.23	peak



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	0.2467	30.79	21.42	52.21	99.76	-47.55	peak
2	0.4586	29.03	21.73	50.76	94.38	-43.62	peak
3	0.5823	28.56	22.03	50.59	72.30	-21.71	peak
4	1.3098	24.24	22.54	46.78	65.26	-18.48	peak
5	5.2770	23.37	23.26	46.63	69.54	-22.91	peak
6	26.0012	27.13	21.66	48.79	69.54	-20.75	peak

Remark:

Frequency(MHz) = Emission frequency in MHz

Reading(dBv) = Uncorrected Analyzer/Receiver reading

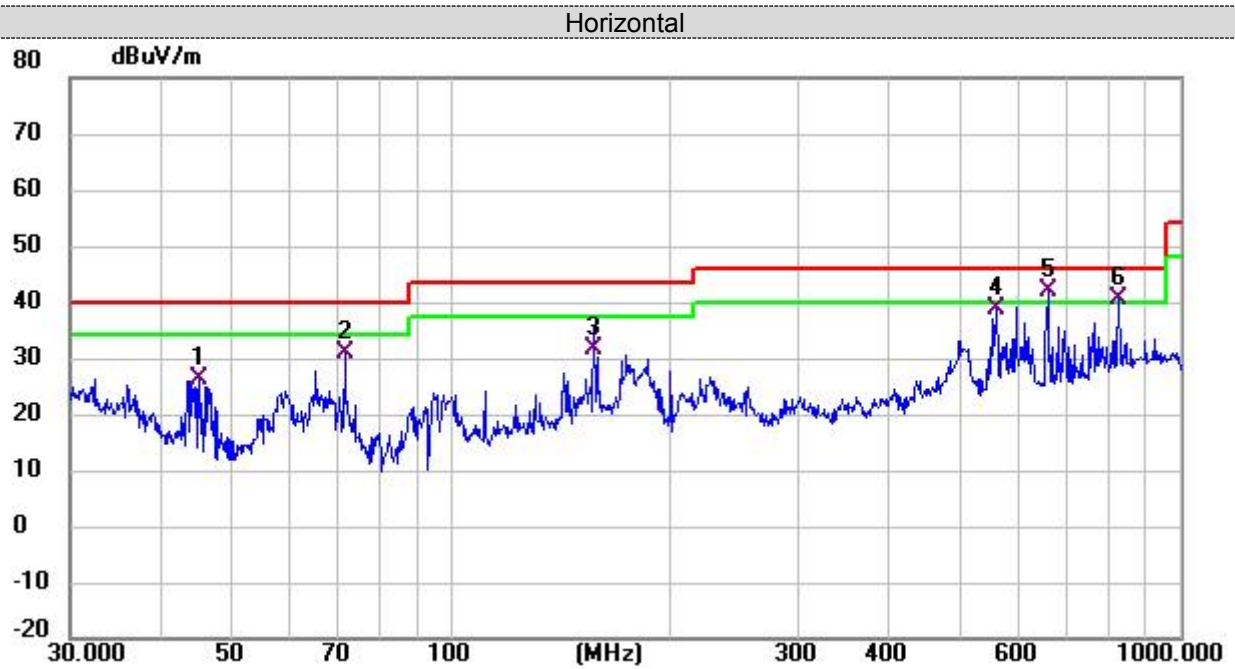
Factor (dB/m)= Antenna factor + Cable Loss – Amplifier gain

Result(dBv/m) = Reading + Factor

Limit (dBv/m)= Limit stated in standard.

For 30MHz-1GHz

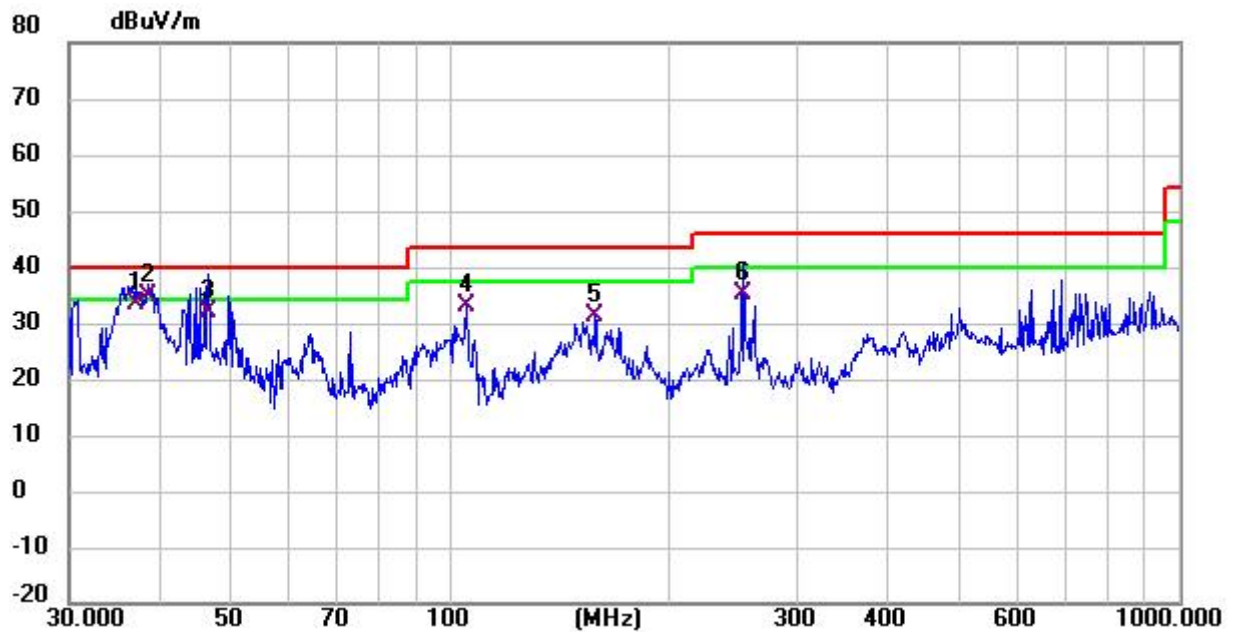
(Test mode: Full load mode)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	45.1600	11.69	14.62	26.31	40.00	-13.69	QP	200	360	P	
2	71.6000	20.35	10.42	30.77	40.00	-9.23	QP	200	360	P	
3	157.0800	14.03	17.42	31.45	43.50	-12.05	QP	200	360	P	
4	558.8400	15.43	23.35	38.78	46.00	-7.22	QP	200	360	P	
5 *	660.9200	17.34	24.59	41.93	46.00	-4.07	QP	200	360	P	
6 !	825.5600	12.31	28.18	40.49	46.00	-5.51	QP	200	360	P	

*:Maximum data x:Over limit !:over margin

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	37.0400	17.36	15.99	33.35	40.00	-6.65	QP	100	220	P	
2 *	38.5200	20.03	14.90	34.93	40.00	-5.07	QP	100	170	P	
3	46.7599	22.33	9.66	31.99	40.00	-8.01	QP	100	30	P	
4	105.6400	18.85	14.22	33.07	43.50	-10.43	QP	100	50	P	
5	158.2800	13.76	17.37	31.13	43.50	-12.37	QP	100	140	P	
6	253.1600	20.43	14.91	35.34	46.00	-10.66	QP	100	360	P	

*:Maximum data x:Over limit !:over margin

5.3. 20dB Bandwidth

TEST CONFIGURATION



TEST PROCEDURE

The 20dB bandwidth and 99% bandwidth is measured with a spectrum analyzer connected via a receive antenna placed near the EUT while the EUT is operating in transmission mode.

The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

The occupied bandwidth (OBW), that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission

TEST RESULTS

Test Frequency (KHz)	20dB bandwidth (KHz)	Result
131.9	3.081	Pass

Test plot as follows:



5.4. Antenna Requirement

Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, 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.

Antenna Connected Construction

Device is equipped with permanent attached antenna, which isn't displaced by other antenna. Therefore, the equipment complies with the antenna requirement of Section 15.203 and RSS-Gen Section 6.8.

6. Test Setup Photos of the EUT

Conducted Emission



Radiated emission (9k-30M)



Radiated emission (30M-1G)



7. External and Internal Photos of the EUT

See related photo report.

.....**End of Report**.....