

8. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
9. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
10. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions 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.
11. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9kHz~150kHz/RB 200Hz for QP
Start ~Stop Frequency	150kHz~30MHz/RB 9kHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120kHz for QP
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/3MHz for Peak, 1MHz/3MHz for Average

Receiver Parameter	Setting
Start ~Stop Frequency	9kHz~150kHz/RB 200Hz for QP
Start ~Stop Frequency	150kHz~30MHz/RB 9kHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120kHz for QP

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- **Quasi-Peak Measurements below 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = as shown in the table above
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

- **Peak Measurements above 1GHz**

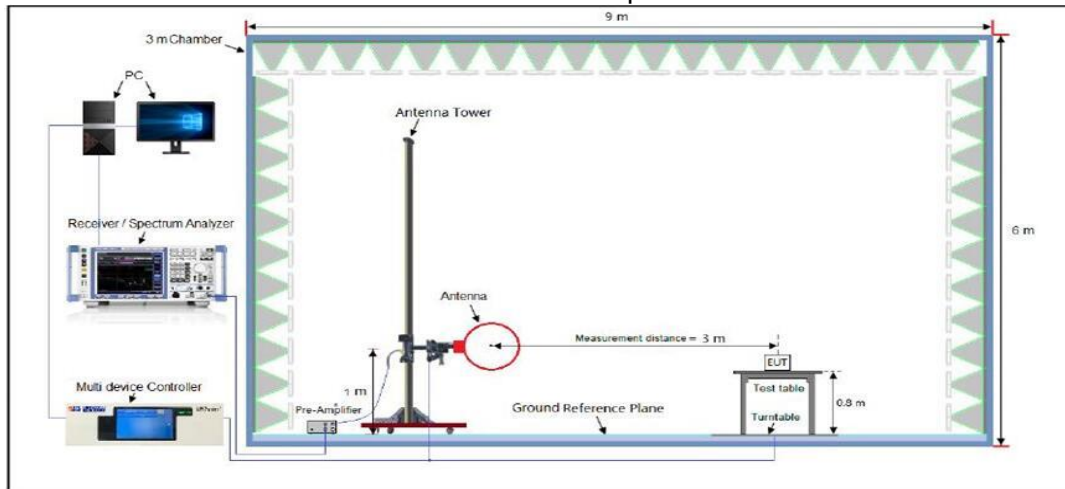
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

- **Average Measurements above 1GHz**

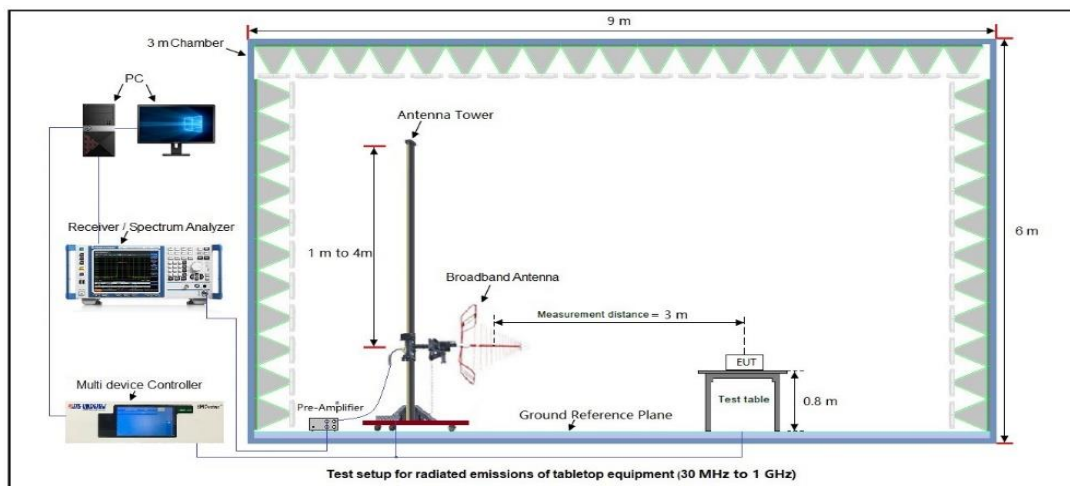
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW $\geq [3 \times \text{RBW}]$
4. Detector = Power averaging (rms)
5. Averaging type = power (i.e., rms)
6. Sweep time = auto
7. Perform a trace average of at least 100 traces.
8. The applicable correction factor is $[10 \cdot \log(1 / D)]$, where D is the duty cycle. The factor had been edited in the "Input Correction" of the Spectrum Analyzer.

11.3 Measurement Setup (Block Diagram of Configuration)

Radiated Emission Test Setup 9kHz-30MHz

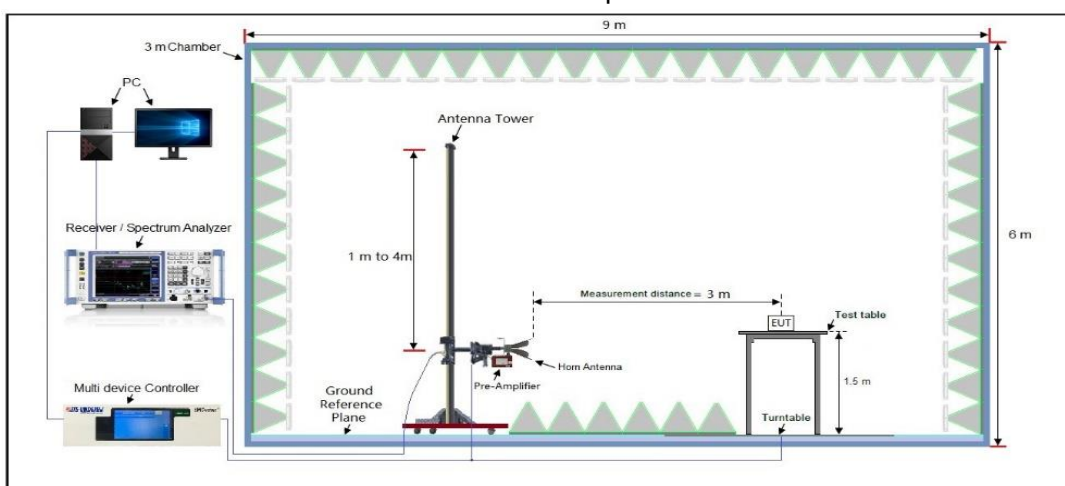


Radiated Emission Test Setup 30MHz-1000MHz



Test setup for radiated emissions of tabletop equipment (30 MHz to 1 GHz)

Radiated Emission Test Setup Above 1000MHz

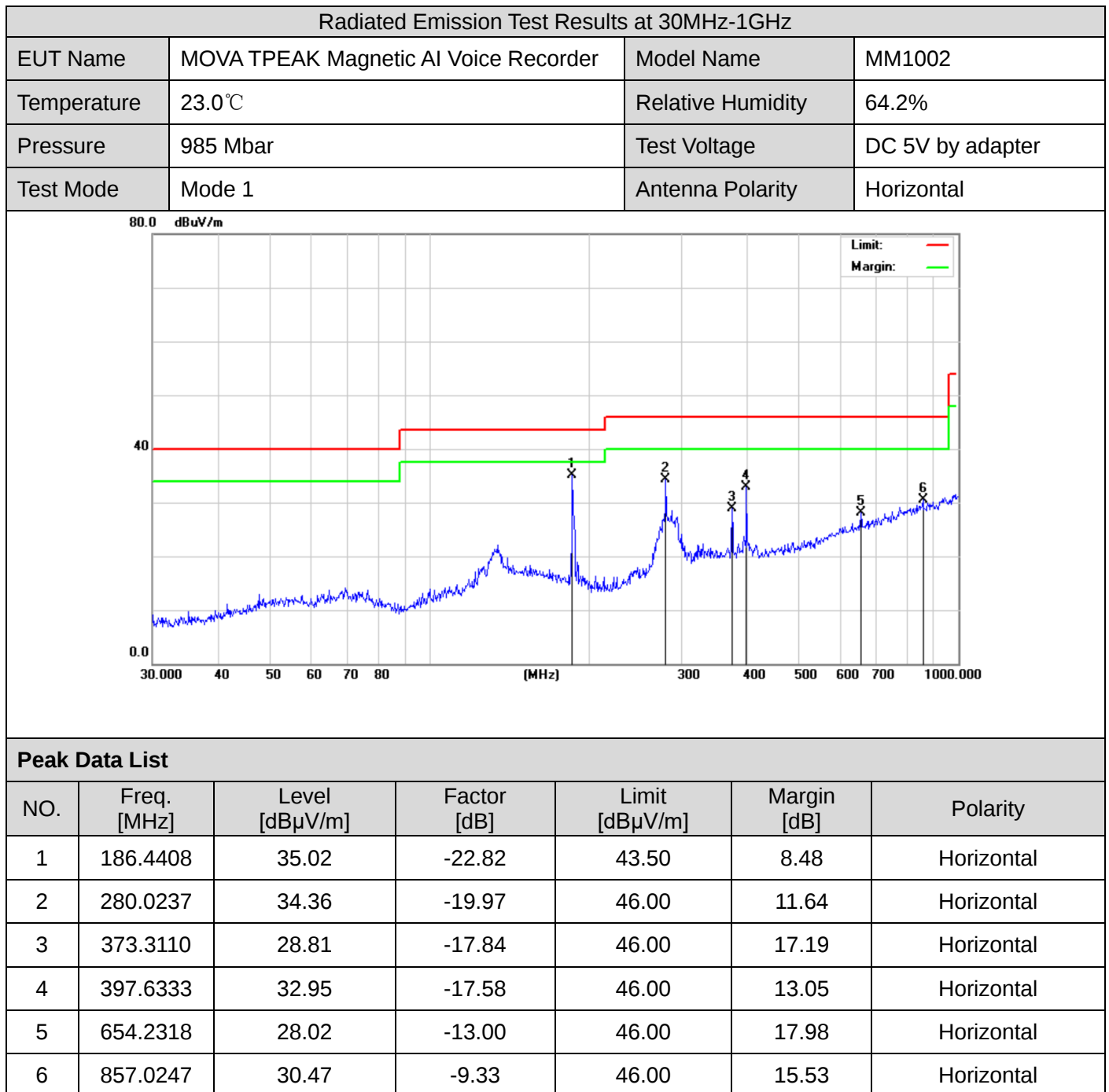


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11.4 Measurement Result

Radiated Emission Below 30MHz

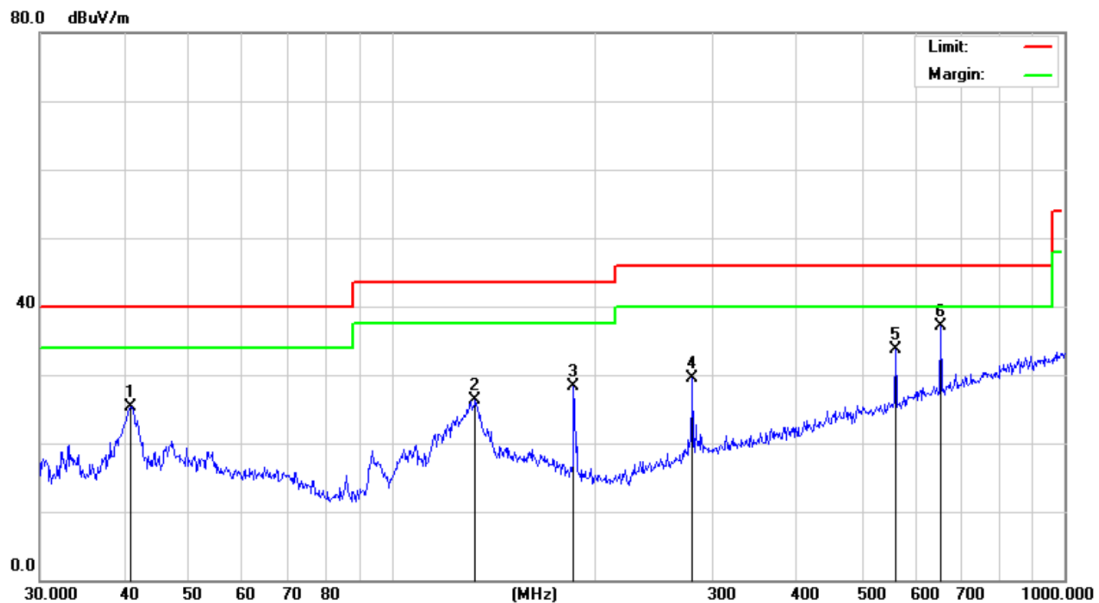
The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.



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Radiated Emission Test Results at 30MHz-1GHz

EUT Name	MOVA TPEAK Magnetic AI Voice Recorder	Model Name	MM1002
Temperature	23.0°C	Relative Humidity	64.2%
Pressure	985 Mbar	Test Voltage	DC 5V by adapter
Test Mode	Mode 1	Antenna Polarity	Vertical



Peak Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Polarity
1	40.9881	25.33	-21.87	40.00	14.67	Vertical
2	133.1511	26.36	-20.95	43.50	17.14	Vertical
3	186.4409	28.26	-21.94	43.50	15.24	Vertical
4	280.0237	29.52	-19.19	46.00	16.48	Vertical
5	560.6928	33.75	-12.84	46.00	12.25	Vertical
6	654.2318	37.03	-10.62	46.00	8.97	Vertical

Result: Pass

Note: 1. Factor=Antenna Factor + Cable loss - Pre-amplifier, Margin= Limit-Measurement.

2. All test modes had been pre-tested. The mode 1 is the worst case and recorded in the report.

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Radiated Emissions Test Results for Above 1GHz

EUT Name	MOVA TPEAK Magnetic AI Voice Recorder	Model Name	MM1002
Temperature	23.0℃	Relative Humidity	64.2%
Pressure	985 Mbar	Test Voltage	DC 5V by adapter
Test Mode	Mode 1	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4804.000	45.46	0.08	45.54	74	-28.46	peak
4804.000	38.05	0.08	38.13	54	-15.87	AVG
7206.000	41.19	2.21	43.4	74	-30.6	peak
7206.000	33.71	2.21	35.92	54	-18.08	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT Name	MOVA TPEAK Magnetic AI Voice Recorder	Model Name	MM1002
Temperature	23.0℃	Relative Humidity	64.2%
Pressure	985 Mbar	Test Voltage	DC 5V by adapter
Test Mode	Mode 1	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4804.000	47.65	0.08	47.73	74	-26.27	peak
4804.000	39.37	0.08	39.45	54	-14.55	AVG
7206.000	45.65	2.21	47.86	74	-26.14	peak
7212.000	34.34	2.21	36.55	54	-17.45	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Result: Pass

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Radiated Emissions Test Results for Above 1GHz

EUT Name	MOVA TPEAK Magnetic AI Voice Recorder	Model Name	MM1002
Temperature	23.0℃	Relative Humidity	64.2%
Pressure	985 Mbar	Test Voltage	DC 5V by adapter
Test Mode	Mode 2	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4880.000	47.4	0.14	47.54	74	-26.46	peak
4880.000	34.88	0.14	35.02	54	-18.98	AVG
7320.000	46.17	2.36	48.53	74	-25.47	peak
7320.000	33.76	2.36	36.12	54	-17.88	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT Name	MOVA TPEAK Magnetic AI Voice Recorder	Model Name	MM1002
Temperature	23.0℃	Relative Humidity	64.2%
Pressure	985 Mbar	Test Voltage	DC 5V by adapter
Test Mode	Mode 2	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4880.000	49.71	0.14	49.85	74	-24.15	peak
4880.000	35.19	0.14	35.33	54	-18.67	AVG
7320.000	48.92	2.36	51.28	74	-22.72	peak
7320.000	33.2	2.36	35.56	54	-18.44	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Result: Pass

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Radiated Emissions Test Results for Above 1GHz

EUT Name	MOVA TPEAK Magnetic AI Voice Recorder	Model Name	MM1002
Temperature	23.0°C	Relative Humidity	64.2%
Pressure	985 Mbar	Test Voltage	DC 5V by adapter
Test Mode	Mode 3	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960.000	48.52	0.22	48.74	74	-25.26	peak
4960.000	36.58	0.22	36.8	54	-17.2	AVG
7440.000	49.75	2.64	52.39	74	-21.61	peak
7440.000	37.02	2.64	39.66	54	-14.34	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT Name	MOVA TPEAK Magnetic AI Voice Recorder	Model Name	MM1002
Temperature	23.0°C	Relative Humidity	64.2%
Pressure	985 Mbar	Test Voltage	DC 5V by adapter
Test Mode	Mode 3	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960.000	46.35	0.22	46.57	74	-27.43	peak
4960.000	36.81	0.22	37.03	54	-16.97	AVG
7440.000	47.79	2.64	50.43	74	-23.57	peak
7440.000	37.03	2.64	39.67	54	-14.33	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Result: Pass

Note:

- The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.
- Factor = Antenna Factor + Cable loss – Pre-amplifier gain, Margin =Emission Level-Limit.
- The “Factor” value can be calculated automatically by software of measurement system.

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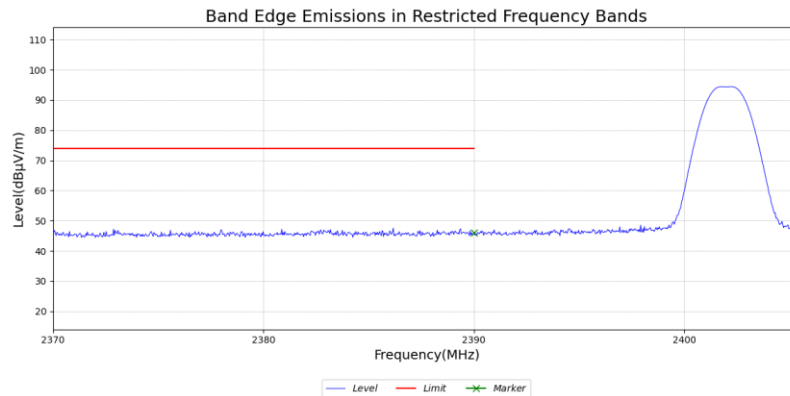
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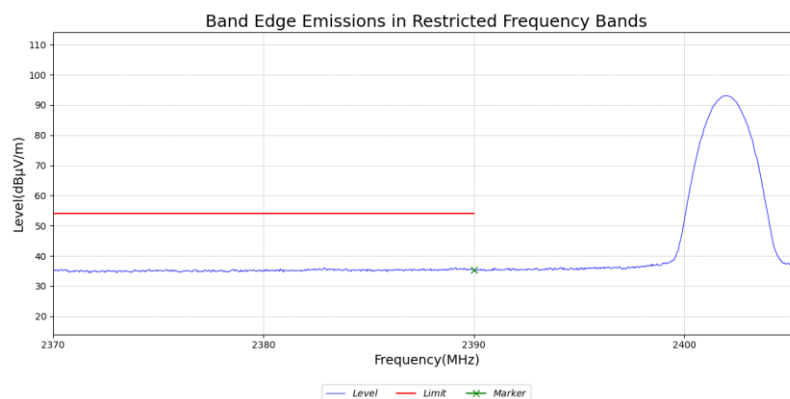
Band Edge Emission Test Results for Restricted Bands

EUT Name	MOVA TPEAK Magnetic AI Voice Recorder	Model Name	MM1002
Temperature	23.0°C	Relative Humidity	64.2%
Pressure	985 Mbar	Test Voltage	DC 5V by adapter
Test Mode	Mode 1	Antenna Polarity	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2390.00	52.63	29.99	30.21	8.35	60.76	74	-13.24	Peak	Horizontal
2	2390.00	30.64	29.99	30.21	8.35	38.77	54	-15.23	AV	Horizontal

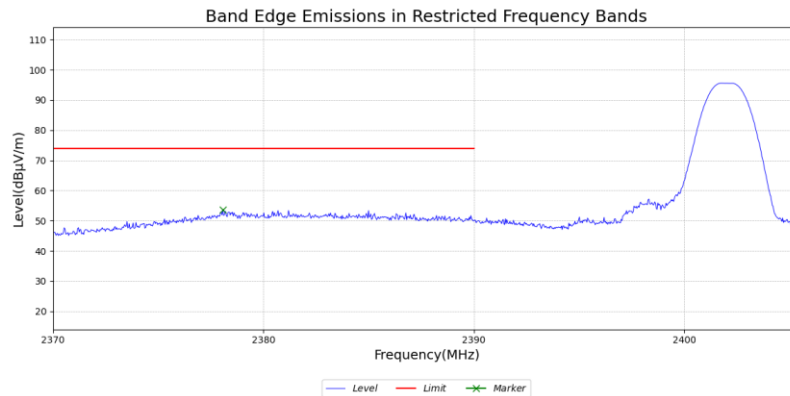
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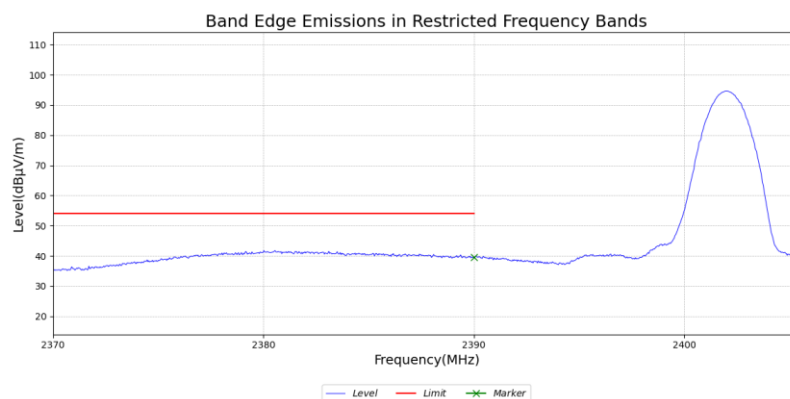
Band Edge Emission Test Results for Restricted Bands

EUT Name	MOVA TPEAK Magnetic AI Voice Recorder	Model Name	MM1002
Temperature	23.0°C	Relative Humidity	64.2%
Pressure	985 Mbar	Test Voltage	DC 5V by adapter
Test Mode	Mode 1	Antenna Polarity	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2390.00	53.70	29.99	30.21	8.35	61.83	74	-12.17	Peak	Vertical
2	2390.00	30.60	29.99	30.21	8.35	38.73	54	-15.27	AV	Vertical

Result: Pass

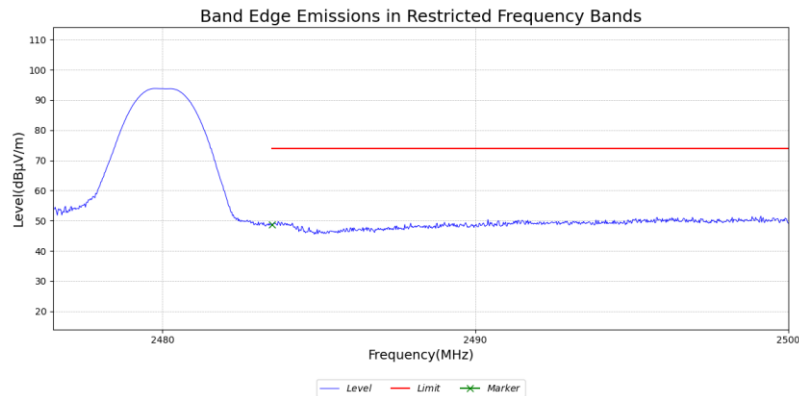
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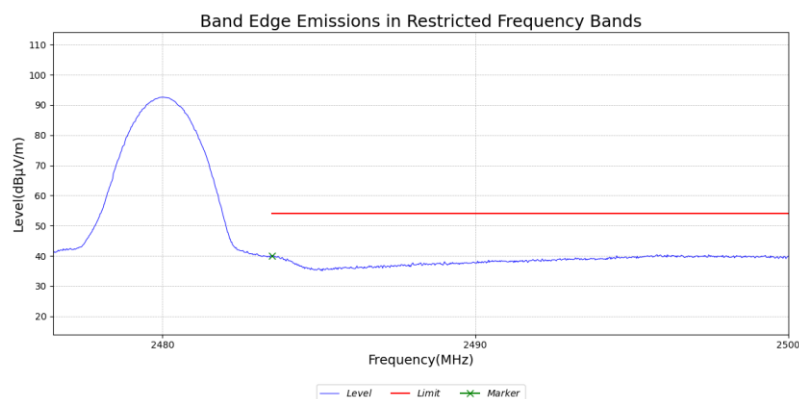
Band Edge Emission Test Results for Restricted Bands

EUT Name	MOVA TPEAK Magnetic AI Voice Recorder	Model Name	MM1002
Temperature	23.0°C	Relative Humidity	64.2%
Pressure	985 Mbar	Test Voltage	DC 5V by adapter
Test Mode	Mode 3	Antenna Polarity	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2390.00	54.02	30.25	30.25	8.5	62.52	74	-11.48	Peak	Horizontal
2	2390.00	32.55	30.25	30.25	8.5	41.05	54	-12.95	AV	Horizontal

Result: Pass

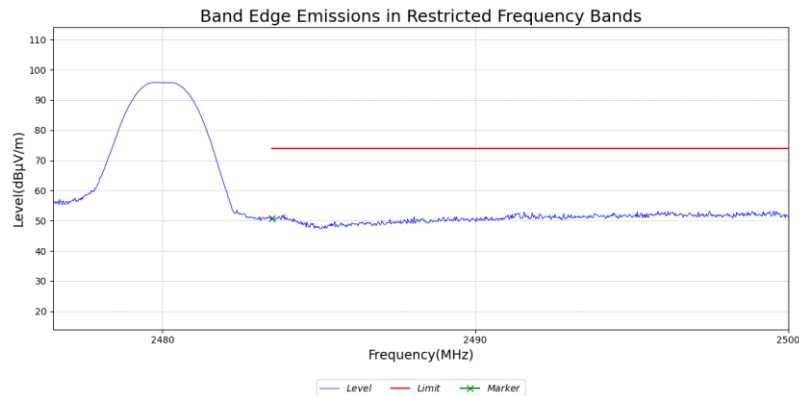
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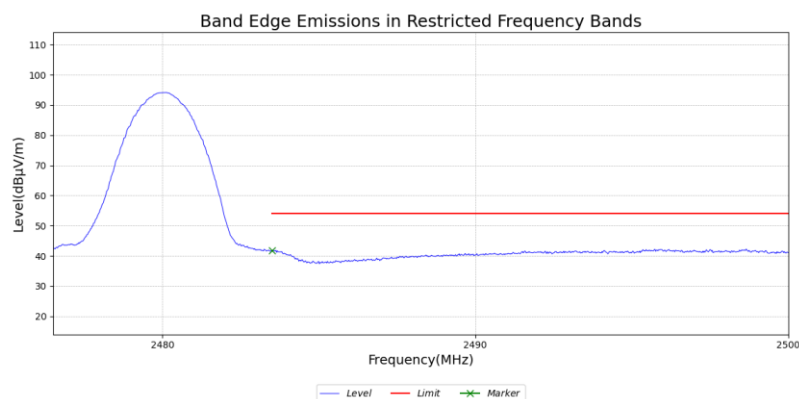
Band Edge Emission Test Results for Restricted Bands

EUT Name	MOVA TPEAK Magnetic AI Voice Recorder	Model Name	MM1002
Temperature	23.0°C	Relative Humidity	64.2%
Pressure	985 Mbar	Test Voltage	DC 5V by adapter
Test Mode	Mode 3	Antenna Polarity	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2390.00	54.64	30.25	30.25	8.5	63.14	74	-10.86	Peak	Vertical
2	2390.00	32.45	30.25	30.25	8.5	40.95	54	-13.05	AV	Vertical

Result: Pass

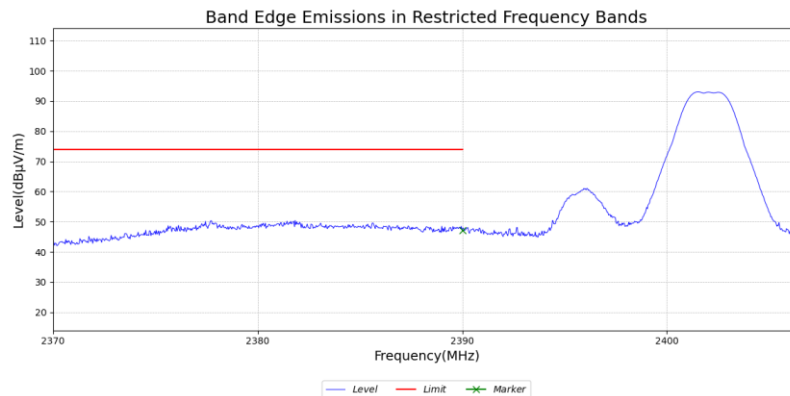
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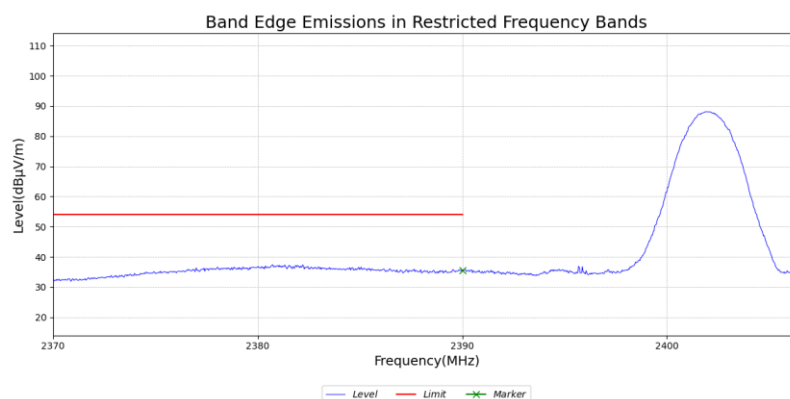
Band Edge Emission Test Results for Restricted Bands

EUT Name	TWO WAY RADIO	Model Name	DP01
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 7.4V by battery
Test Mode	Mode 4	Antenna Polarity	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2390.00	52.84	29.99	30.21	8.35	60.97	74	-13.03	Peak	Horizontal
2	2390.00	30.60	29.99	30.21	8.35	38.73	54	-15.27	AV	Horizontal

Result: Pass

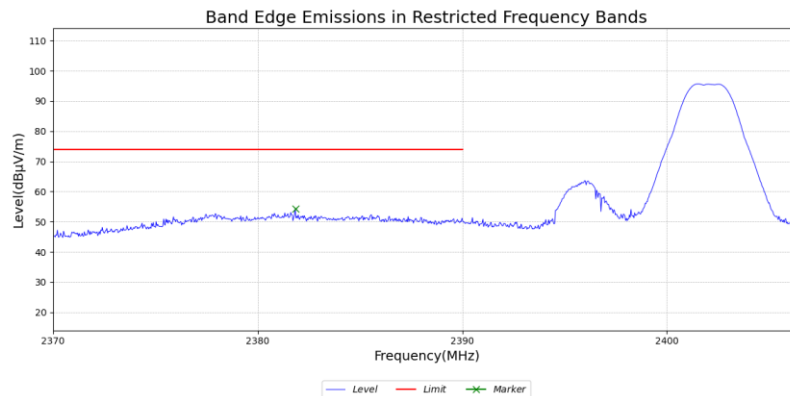
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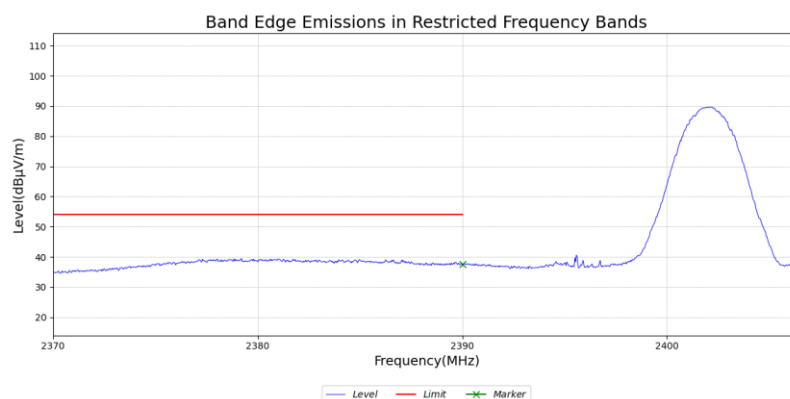
Band Edge Emission Test Results for Restricted Bands

EUT Name	TWO WAY RADIO	Model Name	DP01
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 7.4V by battery
Test Mode	Mode 4	Antenna Polarity	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2390.00	52.51	29.99	30.21	8.35	60.64	74	-13.36	Peak	Vertical
2	2390.00	30.59	29.99	30.21	8.35	38.72	54	-15.28	AV	Vertical

Result: Pass

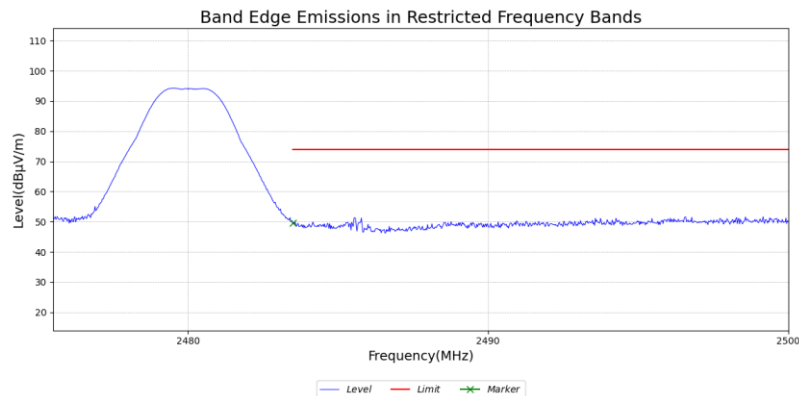
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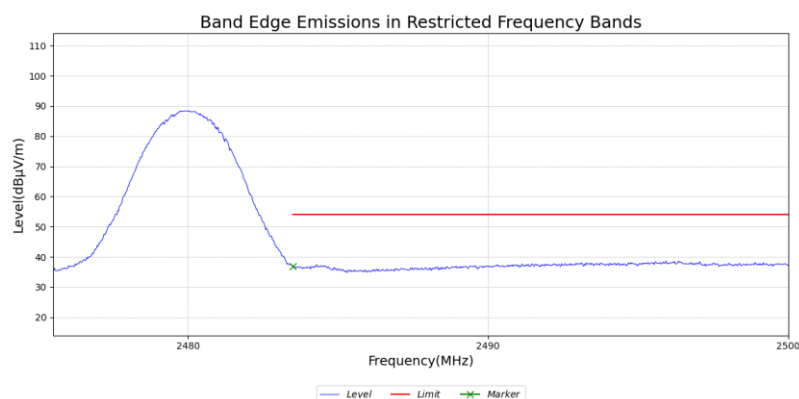
Band Edge Emission Test Results for Restricted Bands

EUT Name	TWO WAY RADIO	Model Name	DP01
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 7.4V by battery
Test Mode	Mode 6	Antenna Polarity	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2483.5	54.16	30.25	30.25	8.5	62.66	74	-11.34	Peak	Horizontal
2	2483.5	35.62	30.25	30.25	8.5	44.12	54	-9.88	AV	Horizontal

Result: Pass

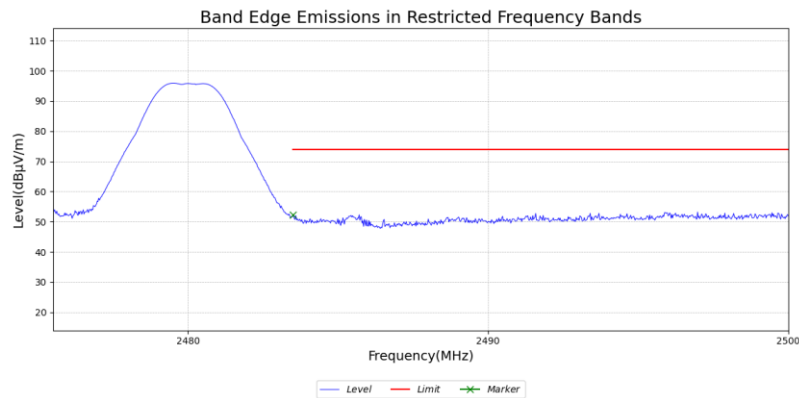
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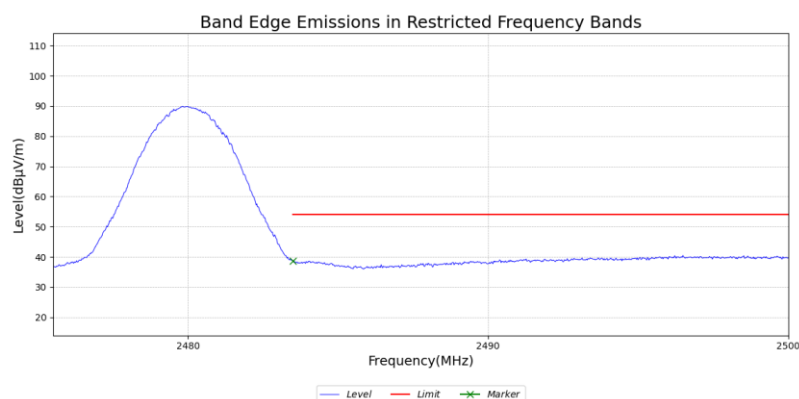
Band Edge Emission Test Results for Restricted Bands

EUT Name	TWO WAY RADIO	Model Name	DP01
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 7.4V by battery
Test Mode	Mode 6	Antenna Polarity	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2483.5	54.49	30.25	30.25	8.5	62.99	74	-11.01	Peak	Vertical
2	2483.5	32.93	30.25	30.25	8.5	41.43	54	-12.57	AV	Vertical

Result: Pass

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Remark:

1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. Margin = Emission Level - Limit.
3. The duty cycle coefficient has been corrected into the spectrum analyzer readings.

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12. AC Power Line Conducted Emission Test

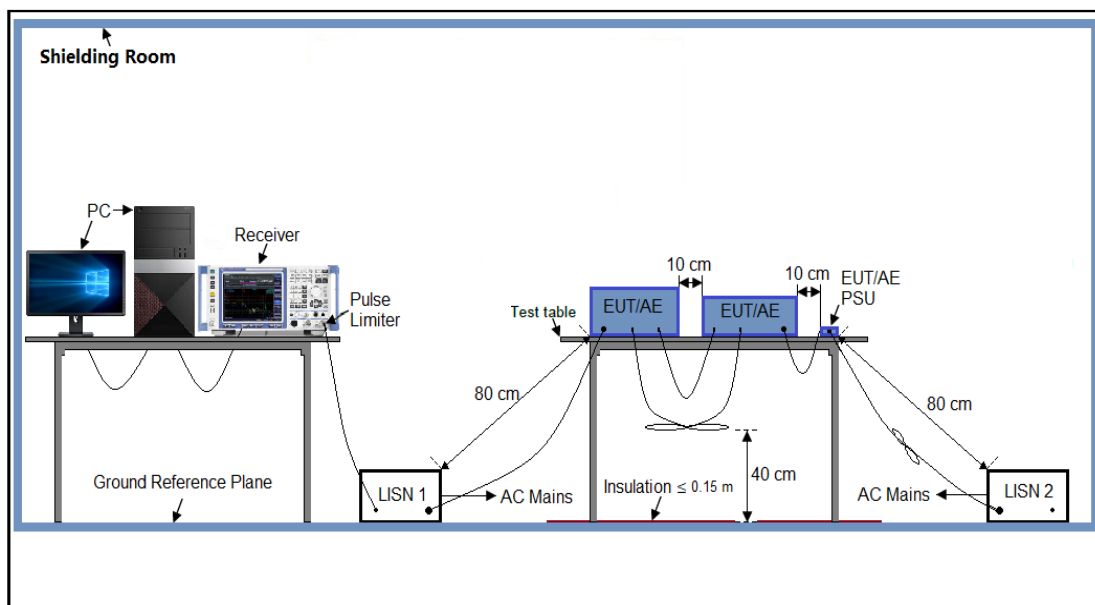
12.1 Measurement Limit

Frequency	Maximum RF Line Voltage	
	Q.P. (dB μ V)	Average (dB μ V)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

12.2 Measurement Setup (Block Diagram of Configuration)



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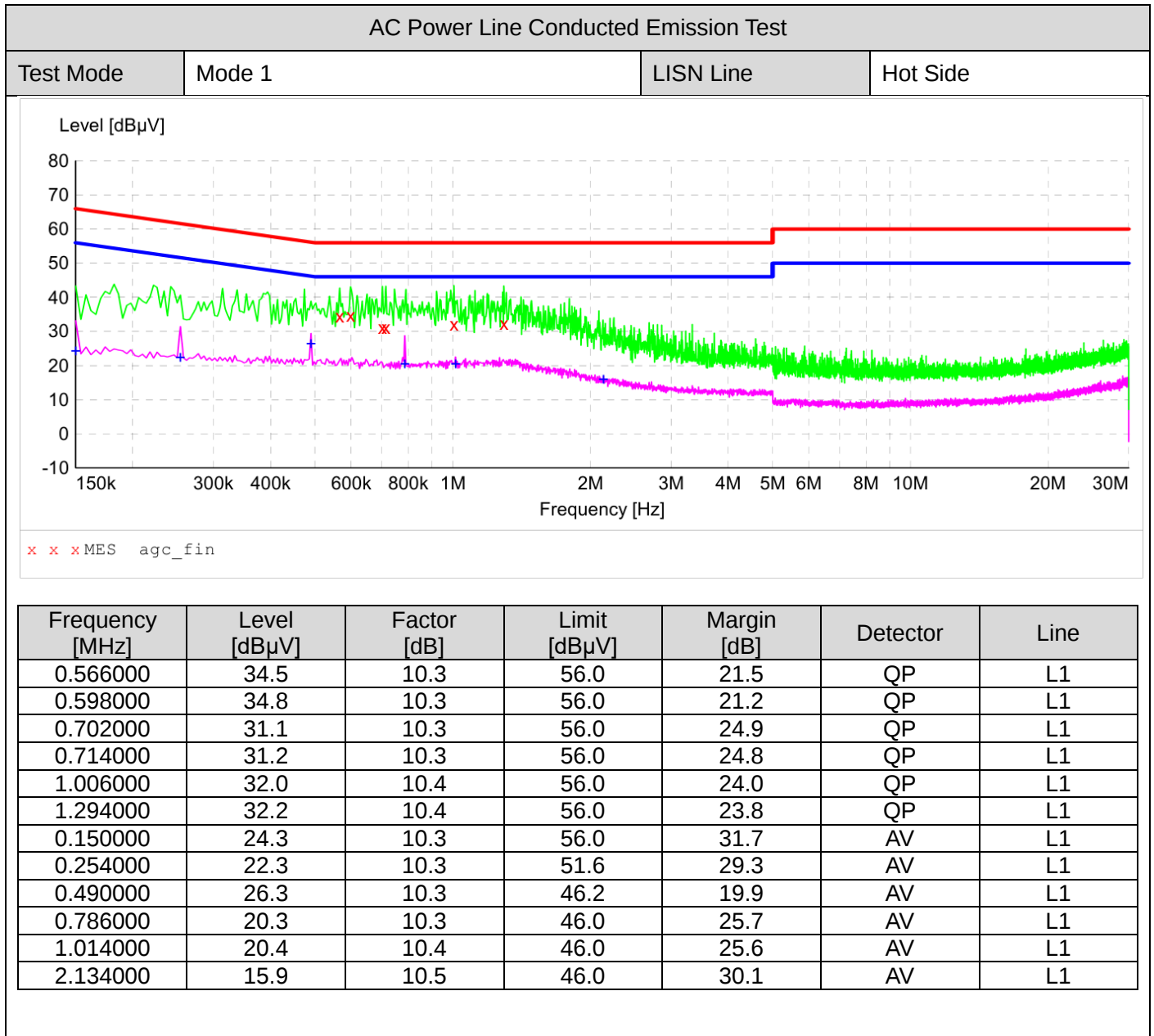
12.3 Preliminary Procedure of Line Conducted Emission Test

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipment received AC120V/60Hz power from a LISN, if any.
5. The EUT received DC 5V power from adapter which received AC120V/60Hz power from a LISN.
6. The 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).
7. 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.
8. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
9. During the above scans, the emissions were maximized by cable manipulation.
10. The test mode(s) were scanned during the preliminary test.
11. Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

12.4 Final Procedure of Line Conducted Emission Test

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.
3. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
4. The test data of the worst case condition(s) was reported on the Summary Data page.
5. A conducted emission is calculated by the following equation:
 - Measurement Level (dB μ V) = Receiver reading (dB μ V) + Transd (dB)
 - Transd (dB)= AMN Factor(dB)+Cable Loss(dB)+Attenuation(dB)
 - Margin= Limit-Level

12.5 Measurement Result



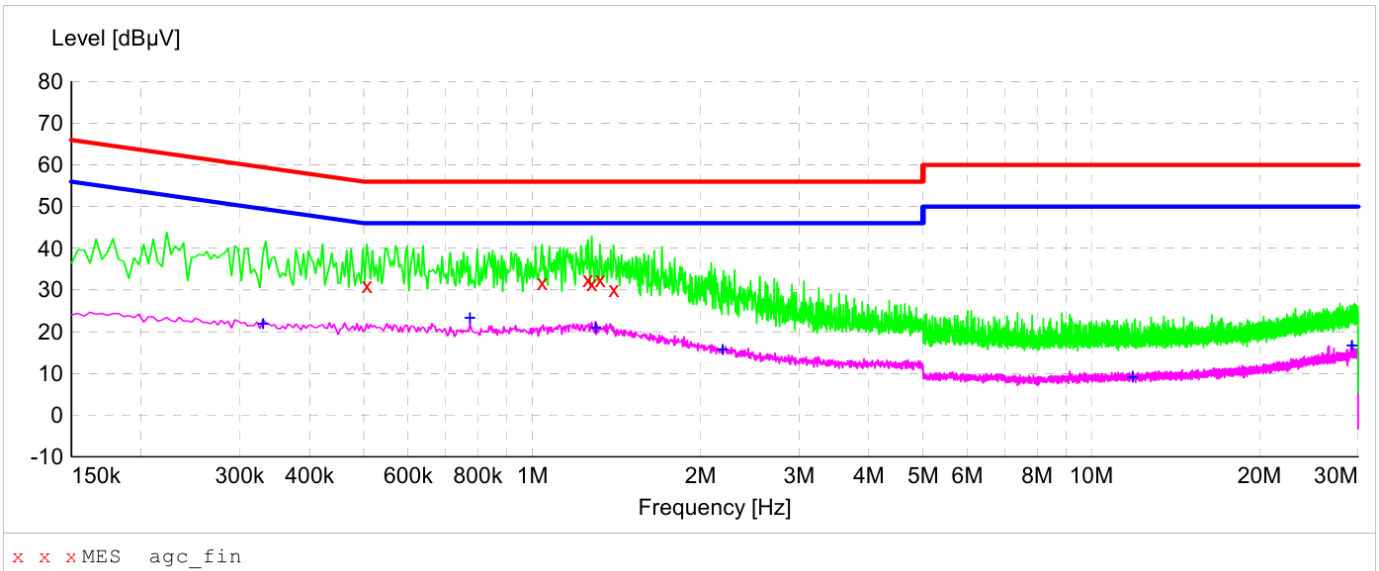
Result: Pass

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AC Power Line Conducted Emission Test

Test Mode	Mode 1	LISN Line	Neutral Side
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Frequency [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Detector	Line
0.506000	31.2	10.3	56.0	24.8	QP	N
1.042000	31.8	10.4	56.0	24.2	QP	N
1.258000	32.5	10.4	56.0	23.5	QP	N
1.278000	31.5	10.4	56.0	24.5	QP	N
1.322000	32.4	10.4	56.0	23.6	QP	N
1.398000	30.2	10.4	56.0	25.8	QP	N
0.330000	21.8	10.3	49.5	27.7	AV	N
0.774000	23.2	10.3	46.0	22.8	AV	N
1.298000	20.9	10.4	46.0	25.1	AV	N
2.190000	15.6	10.5	46.0	30.4	AV	N
11.862000	9.1	12.7	50.0	40.9	AV	N
29.234000	16.6	17.9	50.0	33.4	AV	N

Result: Pass

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Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC17236251104AP01

Appendix II: Photographs of Test EUT

Refer to the Report No.: AGC17236251104AP02

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2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

-----End of Report-----

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