

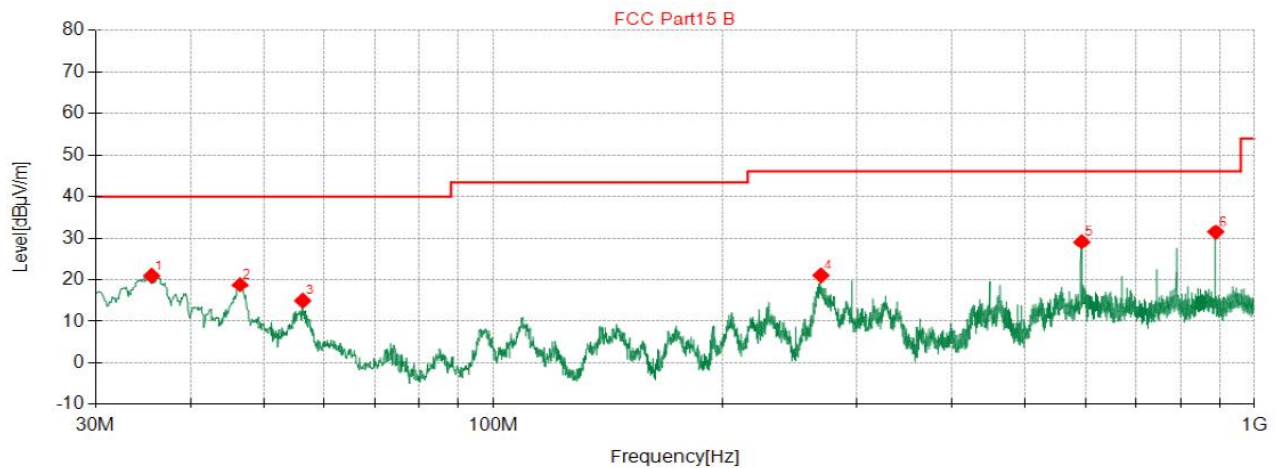
11.4 Measurement Result

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.

Radiated Emission Test Results at 30MHz-1GHz

Radiated Emission Test Results at 30MHz-1GHz			
EUT Name	Wanbo Projector	Model Name	Vali 1 Pro
Temperature	23.1°C	Relative Humidity	62.0%
Pressure	960hPa	Test Voltage	AC 120V/60Hz
Test Mode	802.11a_5180MHz_Ant1	Antenna Polarity	Horizontal



◆ QP Detector

Suspected Data List

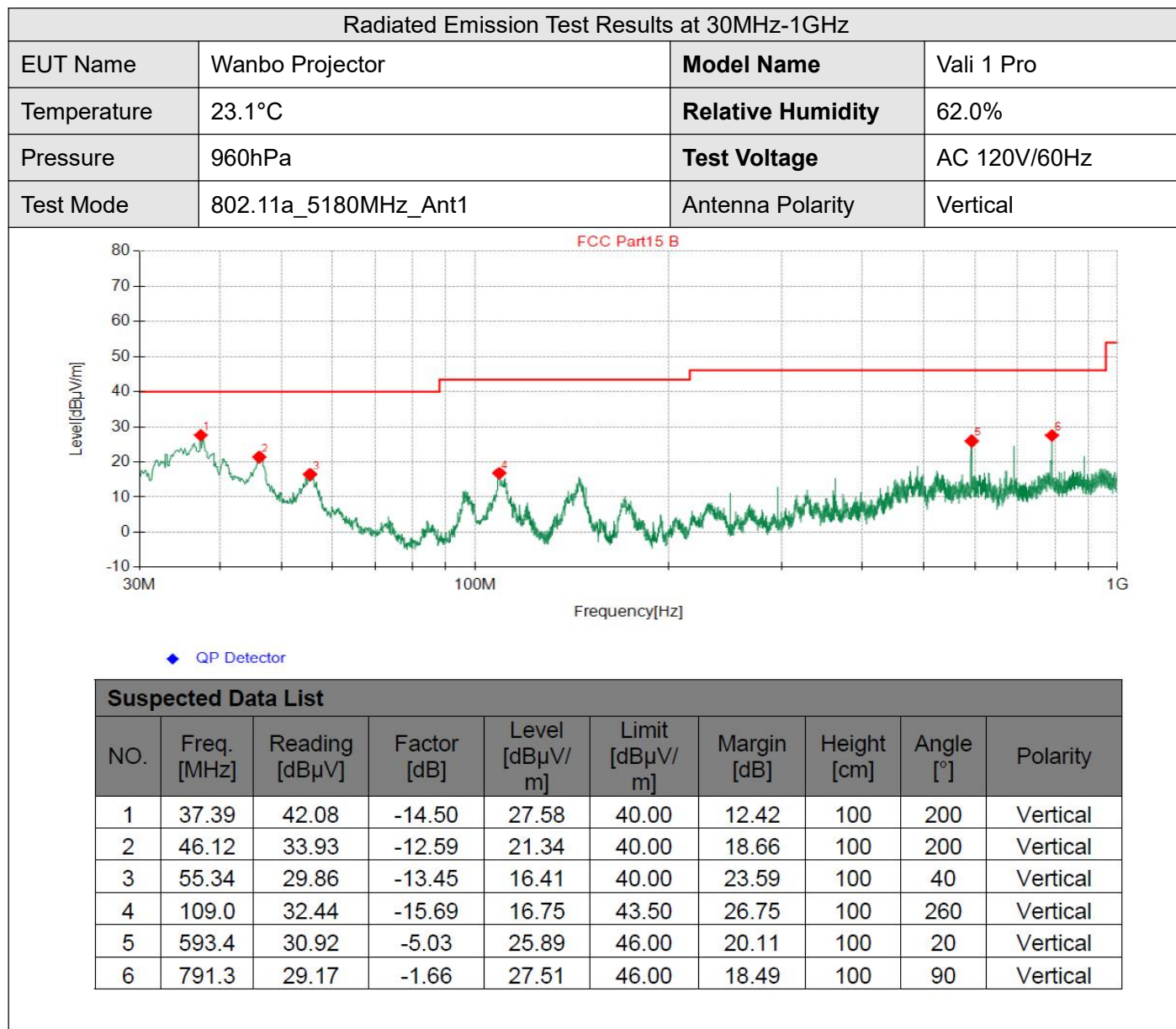
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	35.57	36.25	-15.36	20.89	40.00	19.11	100	350	Horizontal
2	46.49	31.49	-12.75	18.74	40.00	21.26	100	280	Horizontal
3	56.19	28.40	-13.45	14.95	40.00	25.05	100	10	Horizontal
4	269.5	35.12	-14.13	20.99	46.00	25.01	100	110	Horizontal
5	593.4	34.09	-5.03	29.06	46.00	16.94	100	80	Horizontal
6	890.1	32.20	-0.74	31.46	46.00	14.54	100	110	Horizontal

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Result: Pass

Note:

- Factor=Antenna Factor + Cable loss– Pre-amplifier., Margin= Limit-Level.
- All test modes had been pre-tested, Refer to Chapter 5 of the report for details.

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Radiated Emissions Test Results Above 1GHz

EUT Name	Wanbo Projector	Model Name	Vali 1 Pro
Temperature	23.1°C	Relative Humidity	62.0%
Pressure	960hPa	Test Voltage	AC 120V/60Hz

Radiated Emission Above 1GHz–Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10360.00	44.74	9.14	53.88	68.20	-14.32	peak
15540.00	41.56	10.22	51.78	74.00	-22.22	peak
15540.00	32.05	10.22	42.27	54.00	-11.73	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Radiated Emission Above 1GHz–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10360.00	45.45	9.14	54.59	68.20	-13.61	peak
15540.00	42.67	10.22	52.89	74.00	-21.11	peak
15540.00	32.51	10.22	42.73	54.00	-11.27	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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Radiated Emissions Test Results Above 1GHz

EUT Name	Wanbo Projector	Model Name	Vali 1 Pro
Temperature	23.1°C	Relative Humidity	62.0%
Pressure	960hPa	Test Voltage	AC 120V/60Hz
Test Mode	802.11a_5200MHz_Ant1	Antenna	Horizontal/Vertical

Radiated Emission Above 1GHz–Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10400.00	46.55	9.14	55.69	68.20	-12.51	peak
15600.00	42.46	10.22	52.68	74.00	-21.32	peak
15600.00	33.97	10.22	44.19	54.00	-9.81	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Radiated Emission Above 1GHz–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10400.00	47.46	9.14	56.60	68.20	-11.60	peak
15600.00	41.03	10.22	51.25	74.00	-22.75	peak
15600.00	33.79	10.22	44.01	54.00	-9.99	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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Radiated Emissions Test Results Above 1GHz

EUT Name	Wanbo Projector	Model Name	Vali 1 Pro
Temperature	23.1°C	Relative Humidity	62.0%
Pressure	960hPa	Test Voltage	AC 120V/60Hz
Test Mode	802.11a_5240MHz_Ant1	Antenna	Horizontal/Vertical

Radiated Emission Above 1GHz–Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10480.00	46.34	9.14	55.48	68.20	-12.72	peak
15720.00	43.25	10.22	53.47	74.00	-20.53	peak
15720.00	34.76	10.22	44.98	54.00	-9.02	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Radiated Emission Above 1GHz–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10480.00	47.13	9.14	56.27	68.20	-11.93	peak
15720.00	43.79	10.22	54.01	74.00	-19.99	peak
15720.00	34.14	10.22	44.36	54.00	-9.64	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Result: Pass

Note:

1. The amplitude of other spurious emissions from 1GHz to 40 GHz which are attenuated more than 20 dB below the permissible value need not be reported.
2. Factor = Antenna Factor + Cable loss - Amplifier gain, Margin=Level-Limit.
3. The “Factor” value can be calculated automatically by software of measurement system.
4. All test modes had been pre-tested. Refer to Chapter 5 of the report for details.

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Test Result for Band edge Emission at Restricted bands

EUT Name	Wanbo Projector	Model Name	Vali 1 Pro
Temperature	23.1°C	Relative Humidity	62.0%
Pressure	960hPa	Test Voltage	AC 120V/60Hz

Mode	Channel	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Remark	Pol.
IEEE 802.11a ANT1	36	4500	53.7	29.19	30.13	10.65	63.41	68.2	4.79	Peak	Horizontal
		4500	39.41	29.19	30.13	10.65	49.12	54	4.88	AV	Horizontal
		4500	52.31	29.19	30.13	10.65	62.02	68.2	6.18	Peak	Vertical
		4500	39.23	29.19	30.13	10.65	48.94	54	5.06	AV	Vertical
		5150	53.67	29.15	29.63	10.95	64.14	68.2	4.06	Peak	Horizontal
		5150	27.77	29.15	29.63	10.95	38.24	54	15.76	AV	Horizontal
		5150	53.69	29.15	29.63	10.95	64.16	68.2	4.04	Peak	Vertical
		5150	26.3	29.15	29.63	10.95	36.77	54	17.23	AV	Vertical
	48	5350	54.2	29.19	30.13	10.65	63.91	68.2	4.29	Peak	Horizontal
		5350	40.89	29.19	30.13	10.65	50.6	54	3.4	AV	Horizontal
		5350	53.92	29.19	30.13	10.65	63.63	68.2	4.57	Peak	Vertical
		5350	39.87	29.19	30.13	10.65	49.58	54	4.42	AV	Vertical
		5460	51.32	29.15	29.63	10.95	61.79	68.2	6.41	Peak	Horizontal
		5460	30.91	29.15	29.63	10.95	41.38	54	12.62	AV	Horizontal
		5460	53.23	29.15	29.63	10.95	63.7	68.2	4.5	Peak	Vertical
		5460	27.4	29.15	29.63	10.95	37.87	54	16.13	AV	Vertical

Mode	Channel	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Remark	Pol.
IEEE 802.11n HT20 MIMO	36	4500	55.08	29.19	30.13	10.65	64.79	68.2	3.41	Peak	Horizontal
		4500	38.91	29.19	30.13	10.65	48.62	54	5.38	AV	Horizontal
		4500	54.65	29.19	30.13	10.65	64.36	68.2	3.84	Peak	Vertical
		4500	35.94	29.19	30.13	10.65	45.65	54	8.35	AV	Vertical
		5150	51.56	29.15	29.63	10.95	62.03	68.2	6.17	Peak	Horizontal
		5150	29.45	29.15	29.63	10.95	39.92	54	14.08	AV	Horizontal
		5150	50.72	29.15	29.63	10.95	61.19	68.2	7.01	Peak	Vertical
		5150	26.78	29.15	29.63	10.95	37.25	54	16.75	AV	Vertical
	48	5350	55.54	29.19	30.13	10.65	65.25	68.2	2.95	Peak	Horizontal
		5350	36.87	29.19	30.13	10.65	46.58	54	7.42	AV	Horizontal
		5350	55.49	29.19	30.13	10.65	65.2	68.2	3	Peak	Vertical

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		5350	40.74	29.19	30.13	10.65	50.45	54	3.55	AV	Vertical
		5460	54.82	29.15	29.63	10.95	65.29	68.2	2.91	Peak	Horizontal
		5460	29.54	29.15	29.63	10.95	40.01	54	13.99	AV	Horizontal
		5460	51.31	29.15	29.63	10.95	61.78	68.2	6.42	Peak	Vertical
		5460	28.35	29.15	29.63	10.95	38.82	54	15.18	AV	Vertical

Mode	Channel	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Remark	Pol.
IEEE 802.11n HT40 MIMO	38	4500	53.98	29.19	30.13	10.65	63.69	68.2	4.51	Peak	Horizontal
		4500	38.29	29.19	30.13	10.65	48	54	6	AV	Horizontal
		4500	53.41	29.19	30.13	10.65	63.12	68.2	5.08	Peak	Vertical
		4500	38.51	29.19	30.13	10.65	48.22	54	5.78	AV	Vertical
		5150	52.77	29.15	29.63	10.95	63.24	68.2	4.96	Peak	Horizontal
		5150	30.29	29.15	29.63	10.95	40.76	54	13.24	AV	Horizontal
		5150	50.27	29.15	29.63	10.95	60.74	68.2	7.46	Peak	Vertical
		5150	28.18	29.15	29.63	10.95	38.65	54	15.35	AV	Vertical
	46	5350	55.89	29.19	30.13	10.65	65.6	68.2	2.6	Peak	Horizontal
		5350	39.34	29.19	30.13	10.65	49.05	54	4.95	AV	Horizontal
		5350	55.84	29.19	30.13	10.65	65.55	68.2	2.65	Peak	Vertical
		5350	38.14	29.19	30.13	10.65	47.85	54	6.15	AV	Vertical
		5460	55.32	29.15	29.63	10.95	65.79	68.2	2.41	Peak	Horizontal
		5460	28.77	29.15	29.63	10.95	39.24	54	14.76	AV	Horizontal
		5460	53.09	29.15	29.63	10.95	63.56	68.2	4.64	Peak	Vertical
		5460	27.94	29.15	29.63	10.95	38.41	54	15.59	AV	Vertical

Mode	Channel	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Remark	Pol.
IEEE 802.11ac VHT20 MIMO	36	4500	54.97	29.19	30.13	10.65	64.68	68.2	3.52	Peak	Horizontal
		4500	37.75	29.19	30.13	10.65	47.46	54	6.54	AV	Horizontal
		4500	55.15	29.19	30.13	10.65	64.86	68.2	3.34	Peak	Vertical
		4500	39.84	29.19	30.13	10.65	49.55	54	4.45	AV	Vertical
		5150	54.06	29.15	29.63	10.95	64.53	68.2	3.67	Peak	Horizontal
		5150	27.59	29.15	29.63	10.95	38.06	54	15.94	AV	Horizontal
		5150	51.98	29.15	29.63	10.95	62.45	68.2	5.75	Peak	Vertical
		5150	28.95	29.15	29.63	10.95	39.42	54	14.58	AV	Vertical
	48	5350	54.13	29.19	30.13	10.65	63.84	68.2	4.36	Peak	Horizontal
		5350	38.02	29.19	30.13	10.65	47.73	54	6.27	AV	Horizontal
		5350	55.11	29.19	30.13	10.65	64.82	68.2	3.38	Peak	Vertical

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		5350	40.77	29.19	30.13	10.65	50.48	54	3.52	AV	Vertical
		5460	54.01	29.15	29.63	10.95	64.48	68.2	3.72	Peak	Horizontal
		5460	27.1	29.15	29.63	10.95	37.57	54	16.43	AV	Horizontal
		5460	51.12	29.15	29.63	10.95	61.59	68.2	6.61	Peak	Vertical
		5460	27.23	29.15	29.63	10.95	37.7	54	16.3	AV	Vertical

Mode	Channel	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Remark	Pol.
IEEE 802.11ac VHT40 MIMO	38	4500	54.99	29.19	30.13	10.65	64.7	68.2	3.5	Peak	Horizontal
		4500	40.9	29.19	30.13	10.65	50.61	54	3.39	AV	Horizontal
		4500	54.79	29.19	30.13	10.65	64.5	68.2	3.7	Peak	Vertical
		4500	40.25	29.19	30.13	10.65	49.96	54	4.04	AV	Vertical
		5150	51.75	29.15	29.63	10.95	62.22	68.2	5.98	Peak	Horizontal
		5150	29.37	29.15	29.63	10.95	39.84	54	14.16	AV	Horizontal
		5150	52.28	29.15	29.63	10.95	62.75	68.2	5.45	Peak	Vertical
		5150	30.18	29.15	29.63	10.95	40.65	54	13.35	AV	Vertical
	46	5350	55.52	29.19	30.13	10.65	65.23	68.2	2.97	Peak	Horizontal
		5350	36.64	29.19	30.13	10.65	46.35	54	7.65	AV	Horizontal
		5350	54.94	29.19	30.13	10.65	64.65	68.2	3.55	Peak	Vertical
		5350	39.3	29.19	30.13	10.65	49.01	54	4.99	AV	Vertical
		5460	54.45	29.15	29.63	10.95	64.92	68.2	3.28	Peak	Horizontal
		5460	28.56	29.15	29.63	10.95	39.03	54	14.97	AV	Horizontal
		5460	50.37	29.15	29.63	10.95	60.84	68.2	7.36	Peak	Vertical
		5460	27.4	29.15	29.63	10.95	37.87	54	16.13	AV	Vertical

Mode	Channel	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Remark	Pol.
IEEE 802.11ac VHT80 MIMO	42	4500	55.02	29.19	30.13	10.65	64.73	68.2	3.47	Peak	Horizontal
		4500	36.01	29.19	30.13	10.65	45.72	54	8.28	AV	Horizontal
		4500	52.68	29.19	30.13	10.65	62.39	68.2	5.81	Peak	Vertical
		4500	36.37	29.19	30.13	10.65	46.08	54	7.92	AV	Vertical
		5150	52.76	29.15	29.63	10.95	63.23	68.2	4.97	Peak	Horizontal
		5150	28.33	29.15	29.63	10.95	38.8	54	15.2	AV	Horizontal
		5150	51.41	29.15	29.63	10.95	61.88	68.2	6.32	Peak	Vertical
		5150	27.53	29.15	29.63	10.95	38	54	16	AV	Vertical
	42	5350	54.69	29.19	30.13	10.65	64.4	68.2	3.8	Peak	Horizontal
		5350	36.75	29.19	30.13	10.65	46.46	54	7.54	AV	Horizontal
		5350	55.25	29.19	30.13	10.65	64.96	68.2	3.24	Peak	Vertical

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		5350	39.38	29.19	30.13	10.65	49.09	54	4.91	AV	Vertical
		5460	53.8	29.15	29.63	10.95	64.27	68.2	3.93	Peak	Horizontal
		5460	31.39	29.15	29.63	10.95	41.86	54	12.14	AV	Horizontal
		5460	49.27	29.15	29.63	10.95	59.74	68.2	8.46	Peak	Vertical
		5460	29.3	29.15	29.63	10.95	39.77	54	14.23	AV	Vertical

Remark:

1. Measured Undesirable emission at difference data rate for each mode and recorded worst case for each mode.
2. Level = Read Level + Antenna Factor – PRM + Cable Loss
3. Margin = Limit – Level
4. The restricted bands (7.25–7.75 GHz) are far from the operating frequency and therefore are not tested.

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12. AC Power Line Conducted Emission Test

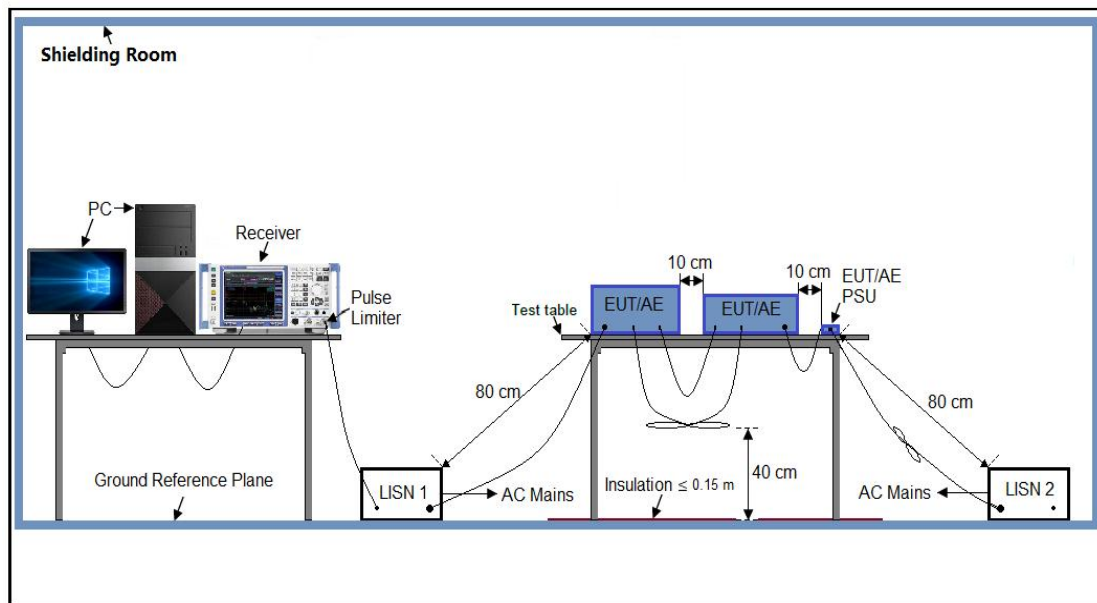
12.1 Measurement limit

Frequency	Maximum RF Line Voltage	
	Q.P (dBμV)	Average (dBμV)
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 0.50MHz.

12.2 Block Diagram of Line Conducted Emission Test



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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 20V 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 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.
9. The test mode(s) were scanned during the preliminary test.

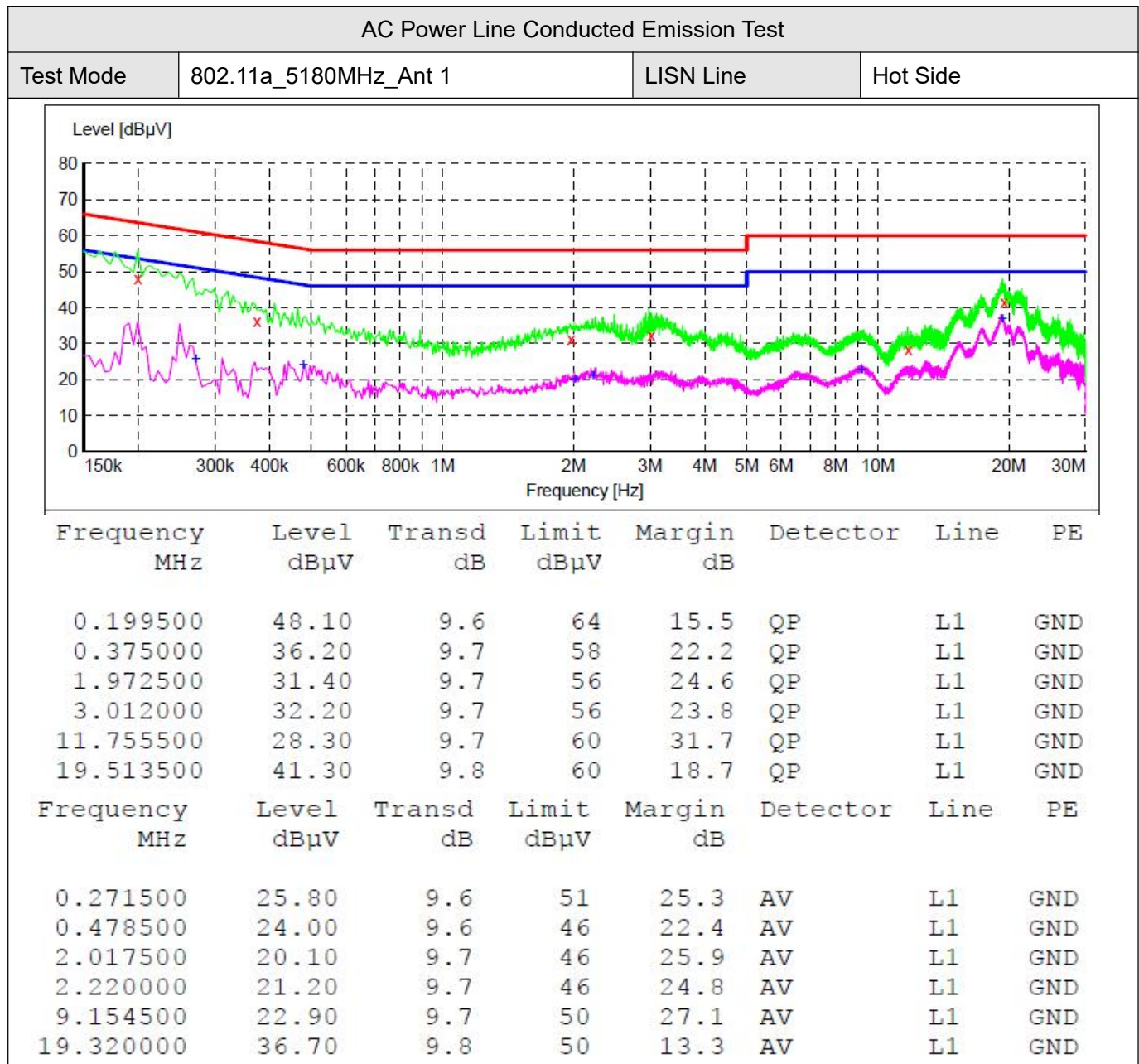
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

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. 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.
3. The test data of the worst case was reported on the Summary Data page.
4. 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

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12.5 Test Result of Line Conducted Emission Test:

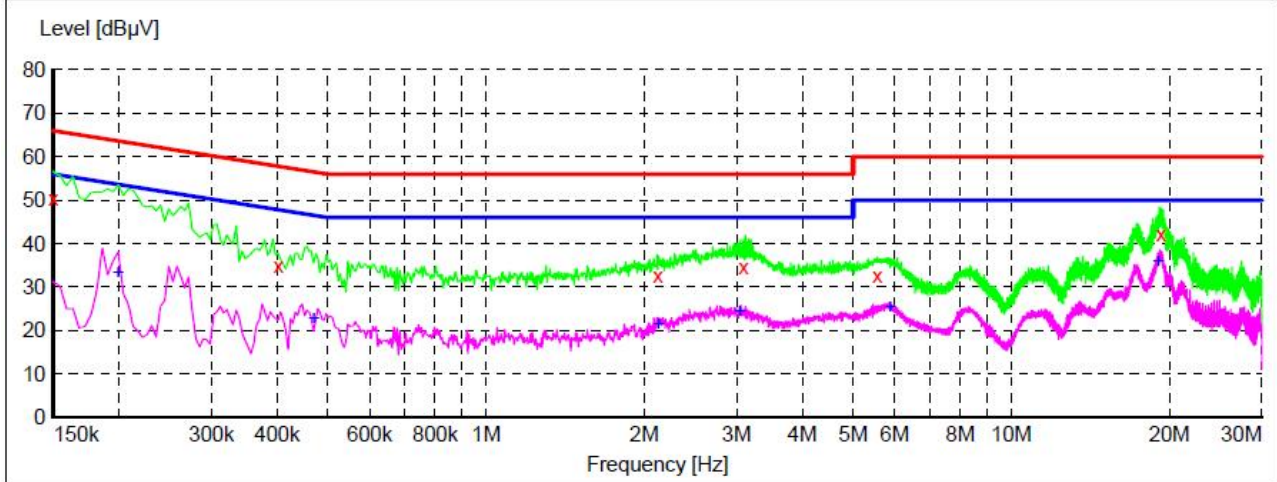


Result: Pass

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AC Power Line Conducted Emission Test

Test Mode	802.11a_5180MHz_Ant 1	LISN Line	Neutral Side
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Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.150000	50.20	9.6	66	15.8	QP	N	GND
0.402000	35.00	9.6	58	22.8	QP	N	GND
2.125500	32.60	9.7	56	23.4	QP	N	GND
3.093000	34.60	9.7	56	21.4	QP	N	GND
5.554500	32.50	9.7	60	27.5	QP	N	GND
19.297500	42.10	9.8	60	17.9	QP	N	GND

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.199500	33.20	9.6	54	20.4	AV	N	GND
0.469500	22.90	9.6	47	23.6	AV	N	GND
2.130000	21.40	9.7	46	24.6	AV	N	GND
3.043500	24.20	9.7	46	21.8	AV	N	GND
5.878500	25.40	9.7	50	24.6	AV	N	GND
19.050000	36.00	9.8	50	14.0	AV	N	GND

Result: Pass

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Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC10211260308AP02

Appendix II: Photographs of EUT

Refer to the Report No.: AGC10211260308AP03

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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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