
FCC Test Report

Report No.: AGC00408210801FE09C

FCC ID : ZL5BM1S4LE

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : 5G Smart phone

BRAND NAME : CAT

MODEL NAME : BM1S4L

APPLICANT : Bullitt Group

DATE OF ISSUE : May 24, 2022

STANDARD(S) : FCC Rules and Regulations Part 15 Subpart C Section 15.225

REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	May 24, 2022	Valid	Class II Permissive Change

Note: The original test report Ref. No. (AGC00408210801FE09A) (dated 2022-01-18), was modified on 2022-05-24 to include the following changes and additions for:

- Updated brand name, model name.
- Updated applicant name and applicant address.
- Updated manufacturer name and manufacturer address.
- Updated software version.
- Remove the adapter.
- Screen resolution changed from FHD to HD+

The prototype shell is somewhat different, and there is a Strong flashlight on the top

FCC LTE increases frequency band 12&13&17&25&26&66.

CDMA increases frequency band BC0/BC1/BC10

For the above described change(s), no further testing necessary.

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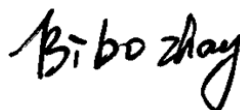
1. VERIFICATION OF COMPLIANCE

Applicant	Bullitt Group
Address	One Valpy, Valpy Street, Reading, RG1 1AR United Kingdom
Manufacturer	Bullitt Group
Address	One Valpy, Valpy Street, Reading, RG1 1AR United Kingdom
Factory	Shenzhen AIJIEMO Technology Company Limited
Address	1st Floor 101 and 2nd Floor 201, Building A2, Huafeng Century Technology Park, Nanchang Community, Xixiang, Baoan District, Shenzhen, China
Product Designation	5G Smart phone
Brand Name	CAT
Test Model	BM1S4L
Date of test	Dec. 24, 2021~Jan. 18, 2022
Deviation	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-SRD/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC part 15.225.

Prepared By



Bibo Zhang
(Project Engineer)

Jan. 18, 2022

Reviewed By



Calvin Liu
(Reviewer)

May 24, 2022

Approved By



Max Zhang
Authorized Officer

May 24, 2022

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as a “5G Smart phone”. It is designed by way of utilizing the GFSK technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	13.56MHz
Max field strength	60.68dBuV/m
Modulation	ASK
Number of channels	1 Channel
Antenna Designation	PIFA Antenna (Comply with requirements of the FCC part 15.203)
Antenna Gain	1.0dBi
Hardware Version	V1.00
Software Version	BM1S4L.DEG
Power Supply	DC 3.85V by battery or DC 5V /9V by adapter

2.2. TABLE OF CARRIER FREQUENCIES

Frequency Band	Channel Number	Frequency
13.110~14.010 MHz	01	13.56 MHz

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2.3. RELATED SUBMITTAL(S)/GRANT(S)

This submittal(s) (test report) is intended for **FCC ID: ZL5BM1S4LE** filing to comply with the FCC Part 15.225 requirements.

2.4. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

2.5. SPECIAL ACCESSORIES

Refer to section 5.2.

2.6. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

2.7. ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device.
For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.

3. 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%.

- Uncertainty of Conducted Emission, $U_c = \pm 3.2$ dB
- Uncertainty of Radiated Emission below 1GHz, $U_c = \pm 3.9$ dB
- Uncertainty of Radiated Emission above 1GHz, $U_c = \pm 4.8$ dB
- Uncertainty of total RF power, conducted, $U_c = \pm 0.8$ dB
- Uncertainty of RF power density, conducted, $U_c = \pm 2.6$ dB
- Uncertainty of spurious emissions, conducted, $U_c = \pm 2.7$ dB
- Uncertainty of Occupied Channel Bandwidth: $U_c = \pm 2$ %

4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Transmitting(13.56MHz)

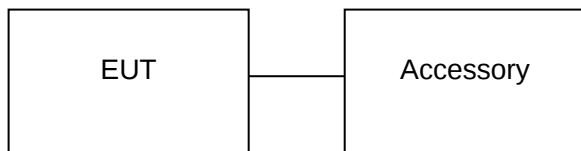
Note:

1. Only the result of the worst case was recorded in the report, if no other cases.
2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
3. For Conducted Test method, a temporary antenna connector is provided by the manufacture.
4. For battery operated equipment, the equipment tests are performed using a lithium battery.

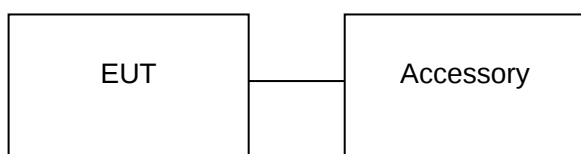
5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF TESTED SYSTEM

Radiated Emission Configure:



Conducted Emission Configure:



5.2. EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	5G Smart phone	BM1S4L	ZL5BM1S4LE	EUT
2	Battery	PX1	DC 3.85V 5500mAh	AE
3	USB Cable	N/A	N/A	AE

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
15.225(d)&15.209	Radiated Emission	Compliant
15.207	AC Power Line Conducted Emissions	Compliant

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6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	Attestation of Global Compliance (Shenzhen) Co., Ltd is accredited by A2LA

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Apr. 14, 2021	Apr. 13, 2022
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Nov. 17, 2021	Nov. 16, 2022
2.4GHz Filter	EM Electronics	2400-2500MHz	N/A	Mar. 23, 2020	Mar. 22, 2022
Attenuator	ZHINAN	E-002	N/A	Sep. 07, 2021	Sep. 06, 2022
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 19, 2021	Sep. 18, 2023
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	May 22, 2020	May 21, 2022
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	Apr. 23, 2021	Apr. 22, 2023
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 03, 2020	Sep. 02, 2022
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 08, 2021	Jan. 07, 2023
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A

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7. RADIATED EMISSION

7.1. TEST LIMIT

Rules and specifications	FCC CFR 47 Part 15 section 15.225			
Description	Compliance with the spectrum mask is tested with RBW set to 9kHz.			
Freq. of Emission (MHz)	Field Strength (μV/m) at 30m	Field Strength (dBμV/m) at 30m	Field Strength (dBμV/m) at 10m	Field Strength (dBμV/m) at 3m
1.705~13.110	30	29.5	48.58	69.5
13.110~13.410	106	40.5	59.58	80.5
13.410~13.553	334	50.5	69.58	90.5
13.553~13.567	15848	84.0	103.08	124.0
13.567~13.710	334	50.5	69.58	90.5
13.710~14.010	106	40.5	59.58	80.5
14.010~30.000	30	29.5	48.58	69.5

According to 15.35, on any frequency or frequencies below or equal to 1000 MHz, the limits Shown are based on measuring equipment employing a CISPR quasi-peak detector function and related measurement bandwidths, unless otherwise specified the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test.

The field strength of any emissions which appear outside of 13.110 ~14.010MHz band shall not exceed the general radiated emissions limits.

Frequencies (MHz)	Field Strength (μV/m)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

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7.2. MEASUREMENT PROCEDURE

1. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. 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.
8. 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.
9. 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.
10. 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/1MHz for Peak, 1MHz/10Hz for Average

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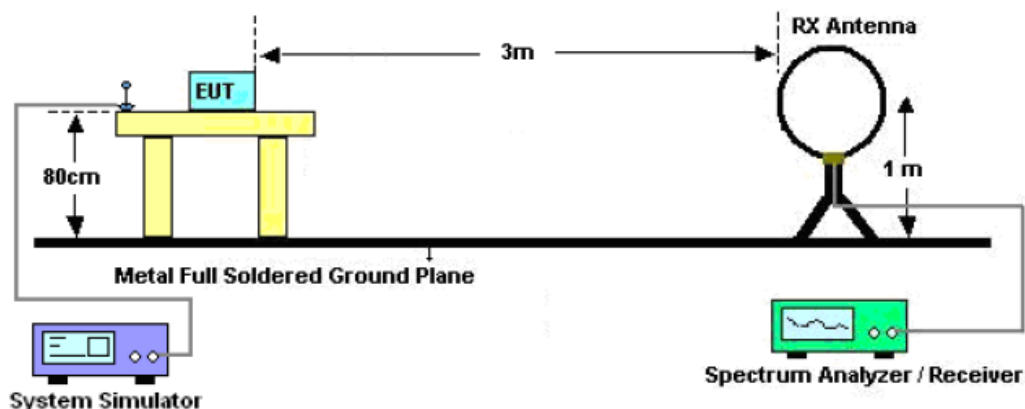
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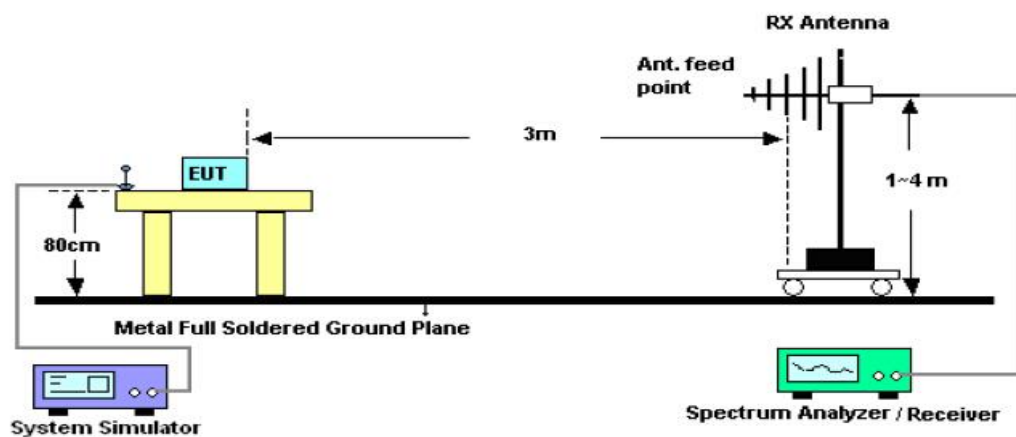
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

7.3. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz

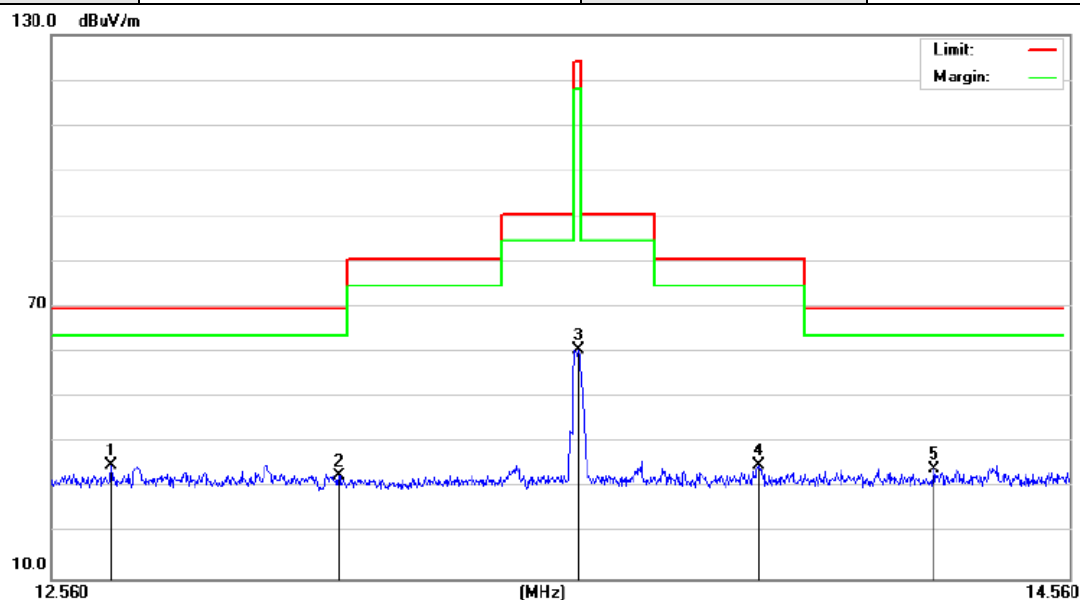


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7.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

EUT:	5G Smart phone	Model Name	BM1S4L
Temperature:	20 °C	Relative Humidity:	53%
Pressure:	1010hPa	Test Voltage :	DC 3.85V
Test Mode :	Mode 1	Polarization :	Face



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	12.6699	10.52	24.57	35.09	69.50	-34.41	peak
2		13.0980	8.07	24.61	32.68	69.50	-36.82	peak
3		13.5600	36.04	24.64	60.68	124.0	-63.32	peak
4		13.9199	10.46	24.67	35.13	80.50	-45.37	peak
5		14.2780	9.47	24.69	34.16	69.50	-35.34	peak

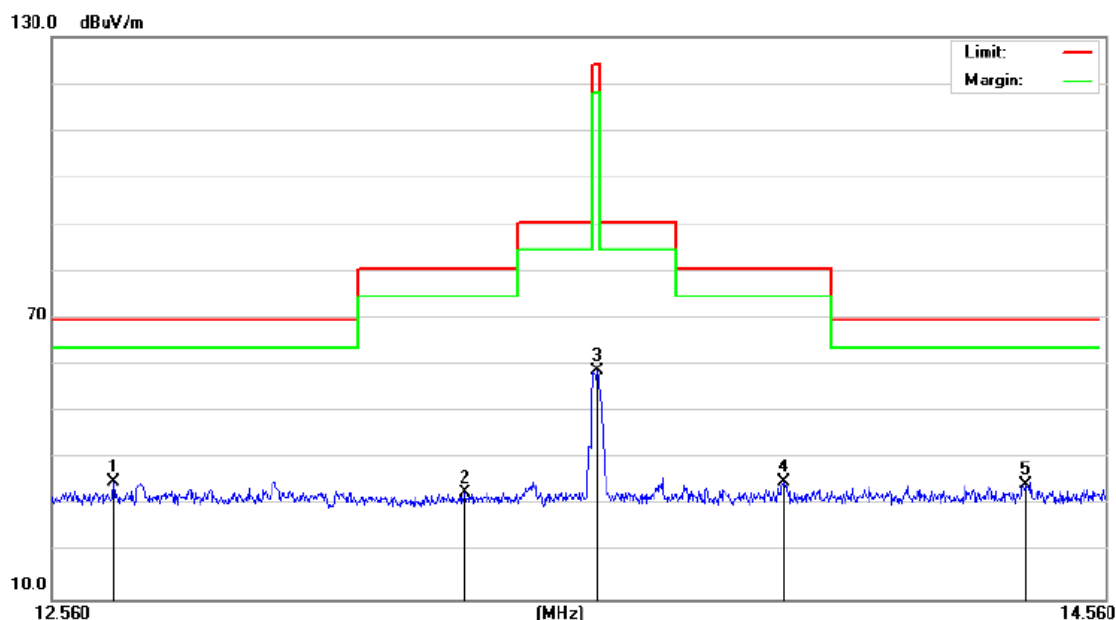
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EUT:	Smart Phone	Model Name	BM1S4L
Temperature:	20 °C	Relative Humidity:	53%
Pressure:	1010 hPa	Test Voltage :	DC 3.85V
Test Mode :	Mode 1	Polarization :	Side



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	*	12.6699	10.52	24.57	35.09	69.50	-34.41	peak
2		13.3119	7.89	24.62	32.51	80.50	-47.99	peak
3		13.5600	34.04	24.64	58.68	124.0	-65.32	peak
4		13.9199	10.46	24.67	35.13	80.50	-45.37	peak
5		14.4000	9.73	24.70	34.43	69.50	-35.07	peak

Note: Other emissions from 9 kHz to 30 MHz are considered as ambient noise. No recording in the test report.

RESULT: PASS

Note:

Factor=Antenna Factor + Cable loss, Margin= Limit-Result.

The "Factor" value can be calculated automatically by software of measurement system.

Both adapters have been tested. In the test result of adapter 1, mode 1 is the worst data and recorded in the report.

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8.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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

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.

The diagram illustrates the test setup for an Equipment Under Test (EUT) on a non-conductive table. The EUT is placed on the table surface, with its rear flush against the rear edge of the table top. The table is 80 cm high from the ground plane. A Receiver is connected to the EUT via a 50 Ω RF Cable. An AC AMN (LISH) is connected to the EUT via a cable labeled 3b, which is 80 cm long. The AC AMN is bonded to the horizontal ground plane and is 40 cm from the vertical reference plane. A System Simulator is connected to the EUT via a cable labeled 3c. The diagram also shows a 2m distance from the EUT to the vertical reference plane.

Non-conductive table

Rear of EUT to be flushed with rear of table top

Receiver

50 Ω RF Cable

80cm

2

80 cm to ground plane

3b)

AC AMN (LISH)

Bonded to horizontal ground plane

40 cm to vertical reference plane

3c)

AMN = Artificial mains network (LISH)
 AE = Associated equipment
 EUT = Equipment under test
 ISN = Impedance stabilization network

System Simulator

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8.3. 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 equipments received AC120V/60Hz power from a LISN, if any.
5. The EUT received charging voltage by adapter which received 120V/60Hz power by 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). 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.

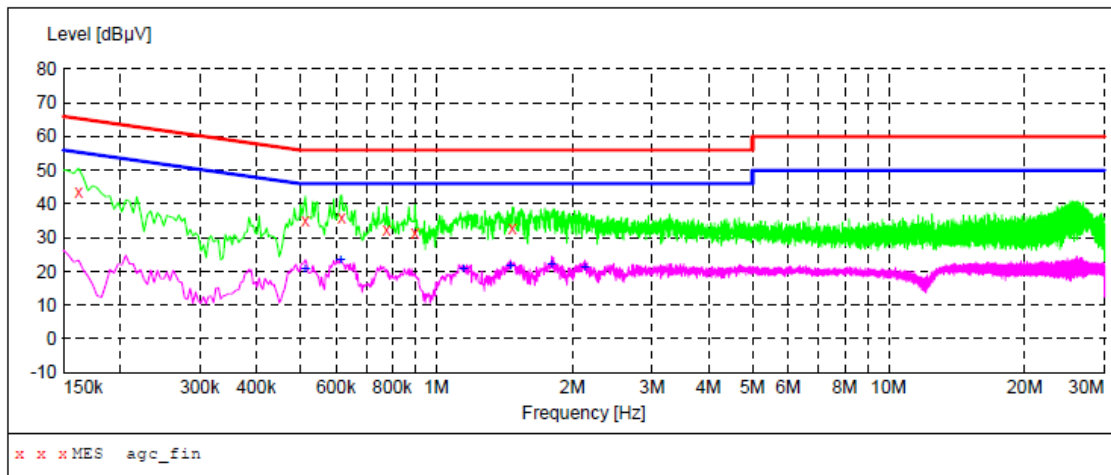
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

8.4. 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 condition(s) was reported on the Summary Data page.

8.5 TEST RESULT OF LINE CONDUCTED EMISSION TEST

LINE CONDUCTED EMISSION TEST LINE 1-L



MEASUREMENT RESULT: "agc_fin"

2021/12/29 0:15

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.162000	43.40	6.8	65	22.0	QP	L1
0.514000	35.00	5.4	56	21.0	QP	L1
0.618000	36.00	5.4	56	20.0	QP	L1
0.778000	32.50	5.4	56	23.5	QP	L1
0.898000	31.40	5.4	56	24.6	QP	L1
1.474000	32.90	6.0	56	23.1	QP	L1

MEASUREMENT RESULT: "agc_fin2"

2021/12/29 0:15

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.514000	20.80	5.4	46	25.2	AV	L1
0.614000	23.40	5.4	46	22.6	AV	L1
1.146000	20.50	5.6	46	25.5	AV	L1
1.458000	21.60	6.0	46	24.4	AV	L1
1.802000	21.80	6.3	46	24.2	AV	L1
2.134000	21.30	6.5	46	24.7	AV	L1

RESULT: PASS

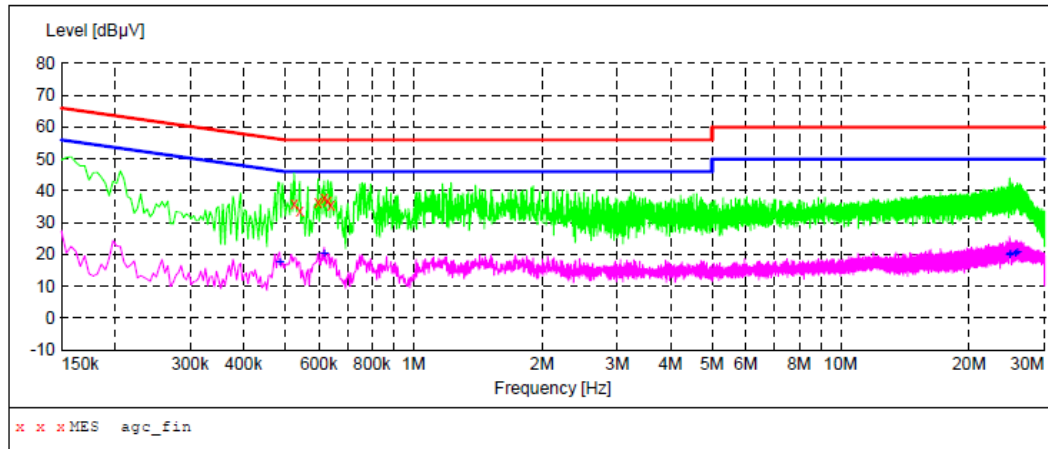
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Line Conducted Emission Test Line 2-N



MEASUREMENT RESULT: "agc_fin"

2021/12/29 0:19

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.526000	35.90	5.4	56	20.1	QP	N
0.542000	33.60	5.4	56	22.4	QP	N
0.598000	36.50	5.4	56	19.5	QP	N
0.618000	37.90	5.4	56	18.1	QP	N
0.630000	37.00	5.4	56	19.0	QP	N
0.642000	35.50	5.4	56	20.5	QP	N

MEASUREMENT RESULT: "agc_fin2"

2021/12/29 0:19

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.486000	17.60	5.4	46	28.6	AV	N
0.618000	20.30	5.4	46	25.7	AV	N
24.842000	19.90	9.1	50	30.1	AV	N
24.922000	20.00	9.2	50	30.0	AV	N
25.662000	20.40	9.2	50	29.6	AV	N
25.874000	20.70	9.2	50	29.3	AV	N

RESULT: PASS

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC00408210801AP01C

APPENDIX B: PHOTOGRAPHS OF EUT

Refer to the Report No.: AGC00408210801AP03C

----END OF REPORT----



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