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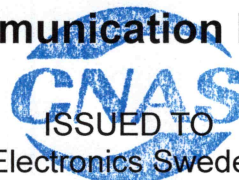
TEST REPORT

ISSUED BY
Shenzhen BALUN Technology Co., Ltd.



FOR

Communication board

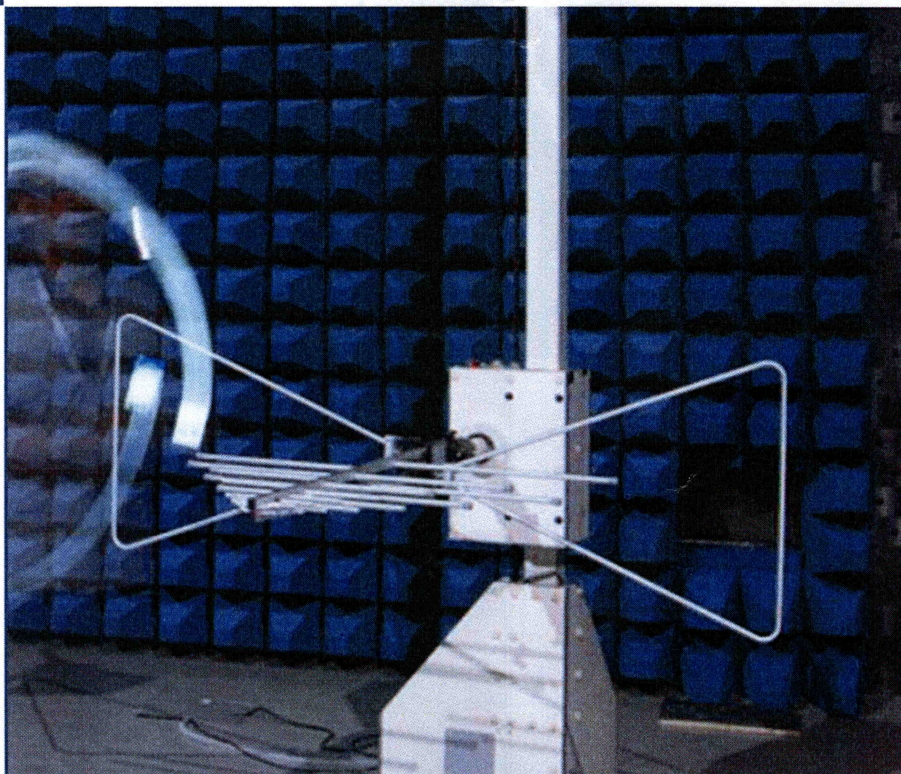


中国认可
国际互认
检测
TESTING
CNAS L6791

ISSUED TO

TT Electronics Sweden AB

Gullfossgratan 3, 164 40 Kista, Sweden



Tested by: Xiong Chong
Xiong Chong

Date Jun. 16, 2021

Reviewed by: Xia Long
Xia Long

Date Jun. 16, 2021

Approved by: Wei Yanquan
Wei Yanquan
(Chief Engineer)

Date Jun. 16, 2021

Report No.: BL-SZ2140097-401

EUT Name: Communication board

Model Name: S-2CONNECT Creo SOM

Brand Name: TT Electronics Sweden AB

Test Standard: 47 CFR Part 15 Subpart B
ICES-003 (Issue 7, October 15, 2020)

FCC ID: 2AZF4-S19Y01

Test Conclusion: Pass

Test Date: Apr. 18, 2021 ~ Apr. 19, 2021

Date of Issue: Jun. 16, 2021

NOTE: This test report of test results only related to testing samples, which can be duplicated completely for the legal use with the approval of the applicant; it shall not be reproduced except in full, without the written approval of Shenzhen BALUN Technology Co., Ltd. Any objections should be raised within thirty days from the date of issue. To validate the report, please contact us.

Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>May 31, 2021</u>	<u>Initial Issue</u>
<u>Rev. 02</u>	<u>Jun. 16, 2021</u>	<u>Add the FCC ID</u>

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1 GENERAL INFORMATION

1.1 Identification of the Testing Laboratory

Company Name	Shenzhen BALUN Technology Co.,Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100
Fax Number	+86 755 6182 4271

1.2 Identification of the Responsible Testing Location

Test Location	Shenzhen BALUN Technology Co.,Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Description	All measurement facilities used to collect the measurement data are located at Block B, FL 1, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China 518055

1.3 Laboratory Condition

Ambient Temperature	20°C to 25°C
Ambient Relative Humidity	45% to 55%
Ambient Pressure	100 kPa to 102 kPa

1.4 Announce

- (1) The test report refer to the BALUN report mode v3.4.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- (5) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.
- (6) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (7) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	TT Electronics Sweden AB
Address	Gullfossgatan 3, 164 40 Kista, Sweden

2.2 Manufacturer Information

Manufacturer	TT Electronics Sweden AB
Address	Gullfossgatan 3, 164 40 Kista, Sweden

2.3 Factory Information

Factory	N/A
Address	N/A

2.4 General Description for Equipment under Test (EUT)

EUT Name	Communication board
Model Name Under Test	S-2CONNECT Creo SOM
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	S19Y01-SOM004
Software Version	0.1.0.certification
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.5 Ancillary Equipment

Ancillary Equipment 1	LTE Antenna
Ancillary Equipment 2	GPS Antenna

2.6 Technical Information

The Highest Speed of Processor	N/A
Network and Wireless connectivity	2.4G ISM Band(GFSK modulation)

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15 Subpart B (10-1-19 Edition)	Unintentional Radiators
2	ICES-003 (Issue 7, October 15, 2020)	Information Technology Equipment (Including Digital Apparatus)
3	ANSI C63.4-2014	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

3.2 Verdict

No.	Description	FCC Rule	ISED Rule	Test Verdict	Result
1	Radiated Emission	15.109	ICES-003, 3.2.2	Pass	Annex A .1
2	Conducted Emission, AC Ports	15.107	ICES-003, 3.2.1	Pass	Annex A .2

3.3 Test Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Measurement	Value
Conducted emissions (9 kHz-30 MHz)	2.96 dB
Radiated emissions (30 MHz-1 GHz)	3.67 dB
Radiated emissions (1 GHz-18 GHz)	3.57 dB
Radiated emissions (18 GHz-40 GHz)	5.16 dB

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

Environment Parameter	Selected Values During Tests			
	Temperature	Voltage	Relative Humidity	Ambient Pressure
Normal Temperature, Normal Voltage (NTNV)	23°C to 25°C	DC 18V	50% to 55%	100 kPa to 102 kPa

4.2 Test Equipment List

Radiated Emission Test For Frequency Below 1 GHz (10 m)						
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	ROHDE&SCHWA RZ	ESRP	101036	2020.06.09	2021.06.08	☒
Test Antenna- Bi-Log	SCHWARZBECK	VULB 9168	9168-0883	2020.05.11	2022.05.10	☒
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60 *7.35m	N/A	2018.08.08	2021.08.07	☒
Test Software	BALUN	BL410_E	V19.918	--	--	☒

Radiated Emission Test For Frequency Below 1 GHz (3 m)						
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9038A	MY53220118	2020.09.18	2021.09.17	☐
Test Antenna- Bi-Log	SCHWARZBECK	VULB 9163	9163-624	2019.07.02	2021.07.01	☐
Anechoic Chamber	YIHENG	9m*6m*6m	N/A	2018.07.18	2021.07.27	☐
Test Software	BALUN	BL410_E	V19.918	--	--	☐

Radiated Emission Test For Frequency Above 1 GHz						
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9038A	MY53220118	2020.09.18	2021.09.17	☒
Test Antenna- Horn	SCHWARZBECK	BBHA 9120D	9120D-1917	2019.07.02	2021.07.01	☒
Anechoic Chamber	YIHENG	9m*6m*6m	N/A	2018.07.18	2021.07.27	☒
Test Software	BALUN	BL410_E	V19.918	--	--	☒

Conducted disturbance Test						
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9010B	MY5711030 9	2020.06.08	2021.06.07	☒
LISN	SCHWARZBECK	NSLK 8127	8127-687	2020.06.09	2021.06.08	☒
Shielded Enclosure	YiHeng Electronic Co., Ltd	3.4m*3.1m*2 .8m	N/A	2018.08.16	2021.08.15	☒
Test Software	BALUN	BL410_E	V19.918	--	--	☒

4.3 Test Enclosure list

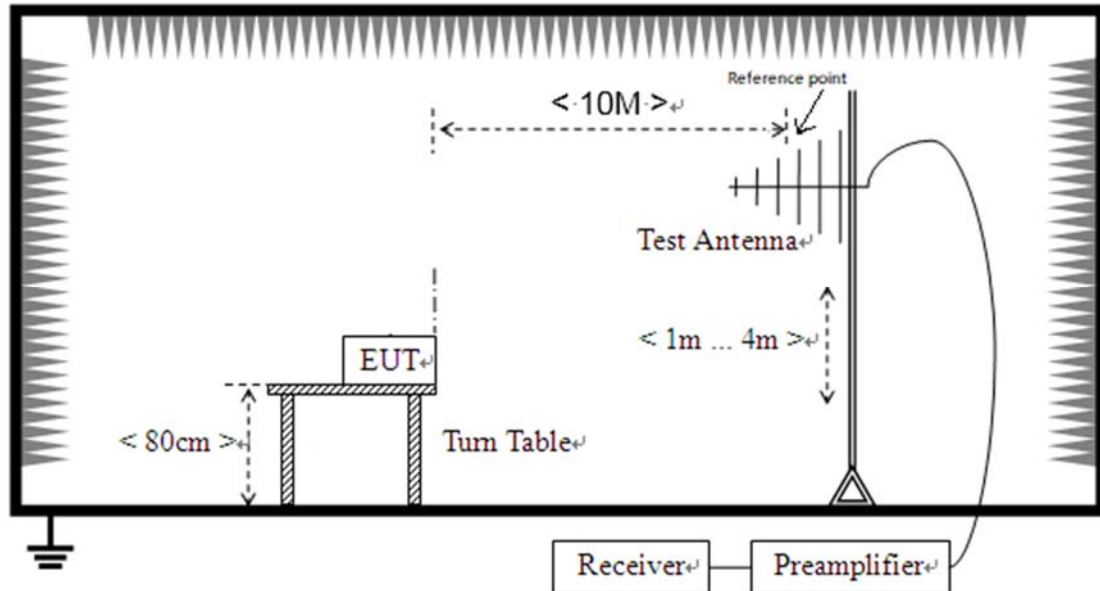
Description	Manufacturer	Model	Serial No.	Length	Description	Use
Adapter	N/A	N/A	N/A	N/A	N/A	☒
Placode	N/A	N/A	N/A	N/A	N/A	☒

4.4 Test Configurations

Test Configurations (TC) No.	Description
TC01	<u>The GPRS 850 MHZ RX Test Mode</u> EUT+ LTE Antenna + GPS Antenna + Adapter + Placode + GPRS 850 MHZ RX
TC02	<u>The EDGE 850 MHz RX Test Mode</u> EUT+ LTE Antenna + GPS Antenna + Adapter + Placode + EDGE 850 MHz RX
TC03	<u>The LTE Cat M1 Band 5 RX Test Mode</u> EUT+ LTE Antenna + GPS Antenna + Adapter + Placode + LTE Cat M1 Band 5 RX
TC04	<u>The LTE Cat M1 Band 12 RX Test Mode</u> EUT+ LTE Antenna + GPS Antenna + Adapter + Placode + LTE Cat M1 Band 12 RX
TC05	<u>The LTE Cat M1 Band 13 RX Test Mode</u> EUT+ LTE Antenna + GPS Antenna + Adapter + Placode + LTE Cat M1 Band 13 RX
TC06	<u>The LTE Cat M1 Band 26 RX Test Mode</u> EUT+ LTE Antenna + GPS Antenna + Adapter + Placode + LTE Cat M1 Band 26 RX
TC07	<u>The LTE Cat M1 Band 85 RX Test Mode</u> EUT+ LTE Antenna + GPS Antenna + Adapter + Placode + LTE Cat M1 Band 85 RX
TC08	<u>The LTE NB2 Band 5 RX Test Mode</u> EUT+ LTE Antenna + GPS Antenna + Adapter + Placode + LTE NB2 Band 5 RX
TC09	<u>The LTE NB2 Band 12 RX Test Mode</u> EUT+ LTE Antenna + GPS Antenna + Adapter + Placode + LTE NB2 Band 12 RX
TC010	<u>The LTE NB2 Band 13 RX Test Mode</u> EUT+ LTE Antenna + GPS Antenna + Adapter + Placode + LTE NB2 Band 13 RX
TC011	<u>The LTE NB2 Band 26 RX Test Mode</u> EUT+ LTE Antenna + GPS Antenna + Adapter + Placode + LTE NB2 Band 26 RX
TC012	<u>The LTE NB2 Band 85 RX Test Mode</u> EUT+ LTE Antenna + GPS Antenna + Adapter + Placode + LTE NB2 Band 85 RX

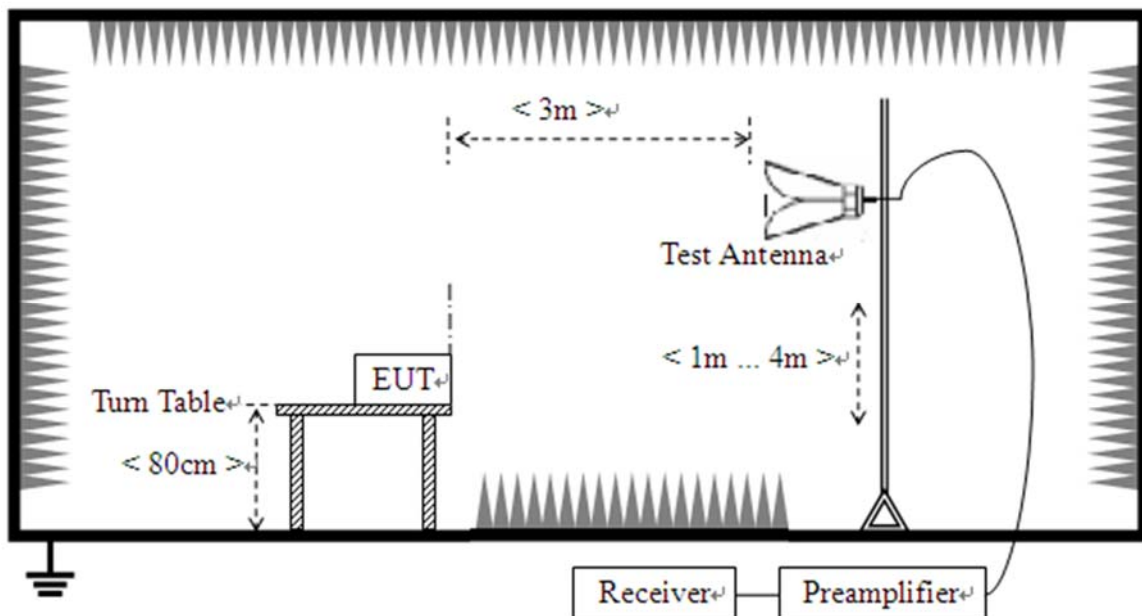
4.5 Test Setups

Test Setup 1



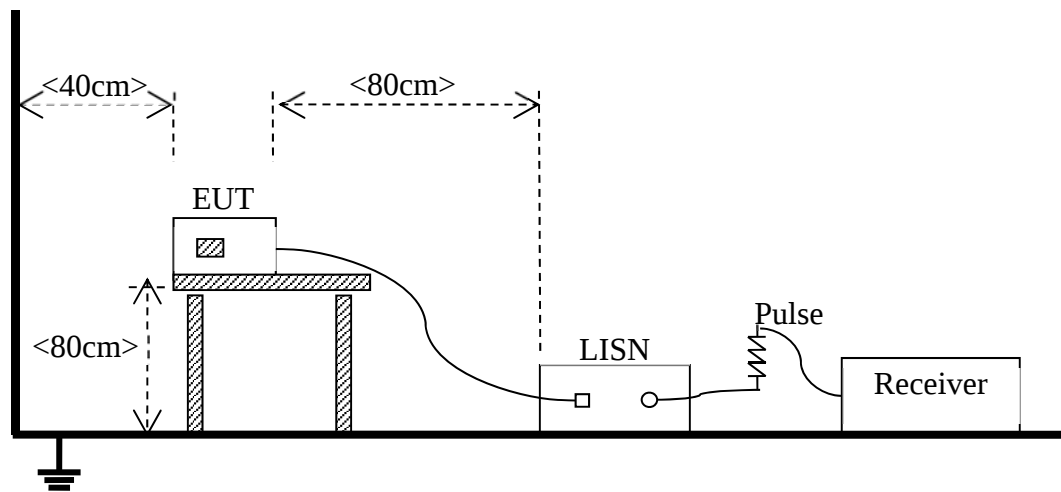
(For Radiated Emission Test (30 MHz-1 GHz))

Test Setup 2



(For Radiated Emission Test (above 1 GHz))

Test Setup 3



(For Conducted Emission, AC Ports Test)

4.6 Test Conditions

Test Case	Test Conditions	
Radiated Emission	Test Env.	NTNV
	Test Setup	Test Setup 1&2
	Test Configuration	TC01~TC12 ^{Note}
Conducted Emission, AC Ports	Test Env.	NTNV
	Test Setup	Test Setup 3
	Test Configuration	TC01~TC12 ^{Note}
Note: Based on client request, all normal using modes of the normal function were tested but only the worst test data of the worst mode is reported by this report. The GPRS 850 MHZ RX Test Mode is the worst mode in this report.		

5 TEST ITEMS

5.1 Emission Tests

5.1.1 Radiated Emission

5.1.1.1 Limit

FCC:

Frequency range (MHz)	Class B (at 3 m)		Class B (at 10 m)	Class A (at 10 m)	
	Field Strength ($\mu\text{V/m}$)	Field Strength (dB $\mu\text{V/m}$)	Field Strength (dB $\mu\text{V/m}$)	Field Strength ($\mu\text{V/m}$)	Field Strength (dB $\mu\text{V/m}$)
30 - 88	100	40	30	90	39
88 - 216	150	43.5	33.5	150	43.5
216 - 960	200	46	36	210	46.4
Above 960	500	54	44	300	49.5

NOTE:

- 1) Field Strength (dB $\mu\text{V/m}$) = $20 \cdot \log [\text{Field Strength } (\mu\text{V/m})]$.
- 2) In the emission tables above, the tighter limit applies at the band edges.
- 3) The limits using ANSI C63.4.

IC:

Frequency range (MHz)	Class A (3 m) Quasi-peak (dB $\mu\text{V/m}$)	Class A (10 m) Quasi-peak (dB $\mu\text{V/m}$)	Class B (3 m) Quasi-peak (dB $\mu\text{V/m}$)	Class B (10m) Quasi-peak (dB $\mu\text{V/m}$)
30 - 88	50.0	40.0	40	30.0
88 - 216	54.0	43.5	43.5	33.1
216 - 230	56.9	46.4	46.0	35.6
230 - 960	57.0	47.0	47.0	37.0
960 - 1000	60.0	49.5	54.0	43.5

Note: The more stringent limit applies at transition frequencies.

Frequency range (GHz)	Class A (3 m) Average (dB $\mu\text{V/m}$)	Class A (3 m) Peak (dB $\mu\text{V/m}$)	Class B (3 m) Average (dB $\mu\text{V/m}$)	Class B (3 m) Peak (dB $\mu\text{V/m}$)
1 - F_M	60	80	54	74

Note:

1. The highest measurement frequency, F_M , in GHz, shall be determined as next Table.
2. The measurement bandwidth shall be 1 MHz or greater.
3. These limit levels apply for a measurement distance of 3 m. If using a different measurement distance, the measured levels shall be extrapolated to the 3 m limit distance using a factor of 20 dB per decade of distance. The measurement distance shall place the measurement antenna in the far field of the ITE or digital apparatus under test.
4. The test site shall have been validated at the distance used for radiated emission measurements on

Frequency range (GHz)	Class A (3 m) Average (dB μ V/m)	Class A (3 m) Peak (dB μ V/m)	Class B (3 m) Average (dB μ V/m)	Class B (3 m) Peak (dB μ V/m)
the ITE or digital apparatus under test				

Highest internal frequency (F_x)	Highest measurement frequency (F_m)
$F_x \leq 108 \text{ MHz}$	1GHz
$108 \text{ MHz} \leq F_x \leq 500 \text{ MHz}$	2GHz
$500 \text{ MHz} \leq F_x \leq 1 \text{ GHz}$	5GHz
$F_x \geq 1 \text{ GHz}$	$5 * F_x$ up to a maximum of 40 GHz
Note: F_x is the highest fundamental frequency generated and/or used in the ITE or digital apparatus under test.	

5.1.1.2 Test Setup

Refer to 4.5 section (test setup 1 to test setup 2) for radiated emission test, the photo of test setup please refer to ANNEX B.

5.1.1.3 Test Procedure

The test employing the methods of measurement described in the publication referenced in Section 3(b) (ANSI C63.4);

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

An initial pre-scan was performed in the chamber using the EMI Receiver in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by Bi-Log antenna with 2 orthogonal polarities.

5.1.1.4 Test Result

Please refer to ANNEX A.1.

NOTE:

1. Results (dB μ V/m) = Reading (dB μ V) + Factor (dB/m)

The reading level is calculated by software which is not shown in the sheet

2. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Amplifier Gain (dB)

3. Over limit = Results – Limit.

5.1.2 Conducted Emission

5.1.2.1 Test Limit

Frequency range (MHz)	Class A	
	Quasi-peak (dBμV)	Average (dBμV)
0.15 - 0.50	79	66
0.50 - 30	73	60

Frequency range (MHz)	Class B	
	Quasi-peak (dBμV)	Average (dBμV)
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

NOTE:

- 1) The lower limit shall apply at the band edges.
- 2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50 MHz.
- 3) The limit using ANSI C63.4.

5.1.2.2 Test Setup

Refer to 4.5 section test (test setup 3) for conducted emission, the photo of test setup please refer to ANNEX B.

5.1.2.3 Test Procedure

The test employing the methods of measurement described in the publication referenced in Section 3(b) (ANSI C63.4);

The EUT is connected to the power mains through a LISN which provides 50 Ω/50 μH of coupling impedance for the measuring instrument. The test frequency range is from 150 kHz to 30 MHz. The maximum conducted interference is searched using Peak (PK), Quasi-peak (QP) and Average (AV) detectors; the emission levels that are more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

5.1.2.4 Test Result

Please refer to ANNEX A.2.

NOTE:

1. Results (dBuV/m) = Reading (dBuV) + Factor (dB/m)

The reading level is calculated by software which is not shown in the sheet

2. Factor = Insertion loss + Cable loss

3. Over limit = Results – Limit.

ANNEX A TEST RESULTS

A.1 Radiated Emission

Note 1: The symbol of “--” in the table which means not application.

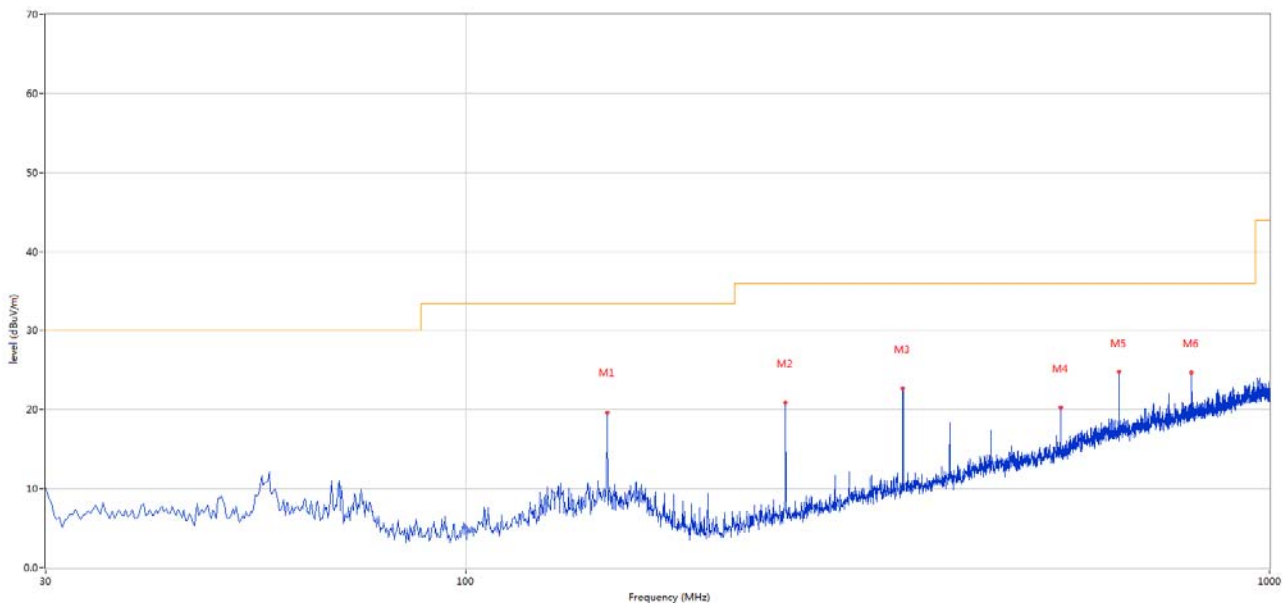
Note 2: For the test data above 1 GHz, according the ANSI C63.4-2014, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note 3: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

Test Data and Plots

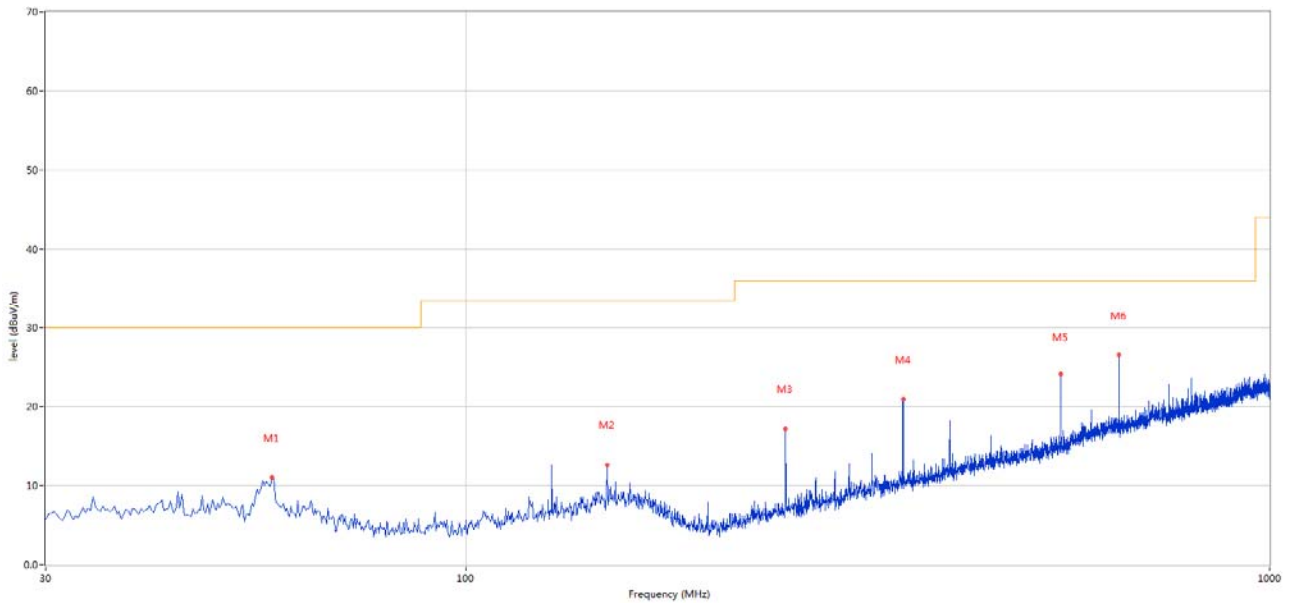
The GPRS 850 MHZ RX Test Mode(FCC)

A.1.1 Test Antenna Vertical, 30 MHz – 1 GH



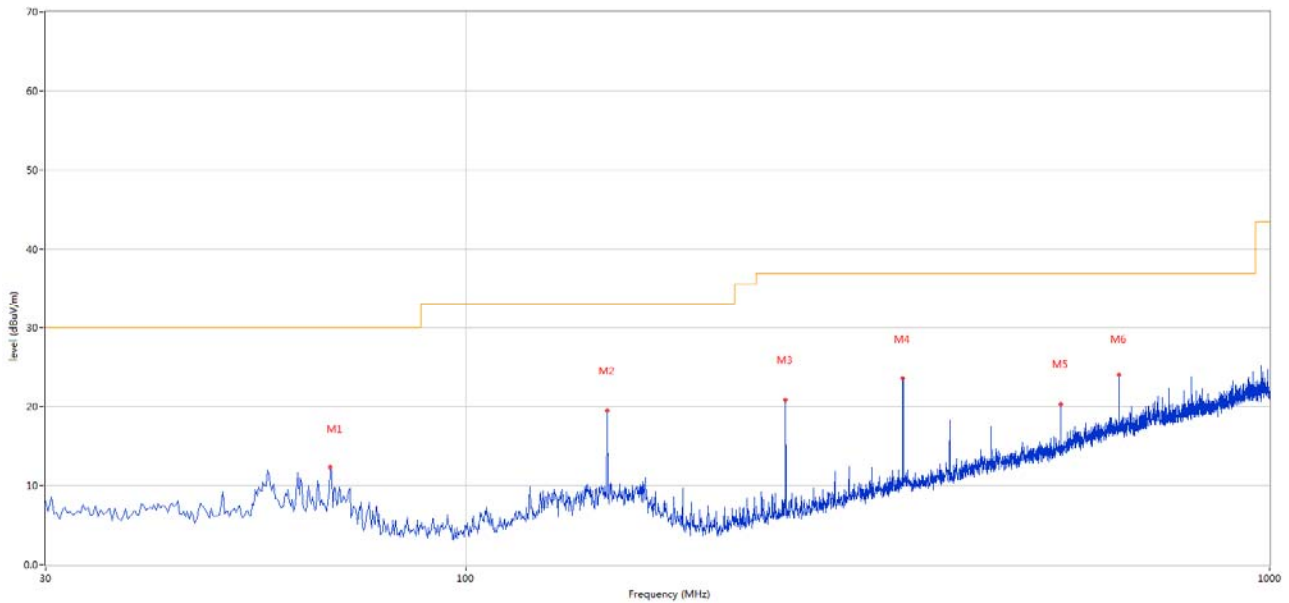
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	150.007	19.63	-25.94	33.5	-13.87	Peak	360.00	200	Vertical	Pass
2	249.893	20.83	-27.39	36.0	-15.17	Peak	156.00	100	Vertical	Pass
3	349.778	22.59	-24.25	36.0	-13.41	Peak	4.00	100	Vertical	Pass
4	550.032	20.19	-19.51	36.0	-15.81	Peak	247.00	100	Vertical	Pass
5	649.918	24.77	-16.93	36.0	-11.23	Peak	184.00	200	Vertical	Pass
6	799.988	24.64	-14.21	36.0	-11.36	Peak	275.00	200	Vertical	Pass

A.1.2 Test Antenna Horizontal, 30 MHz – 1 GHz(FCC)



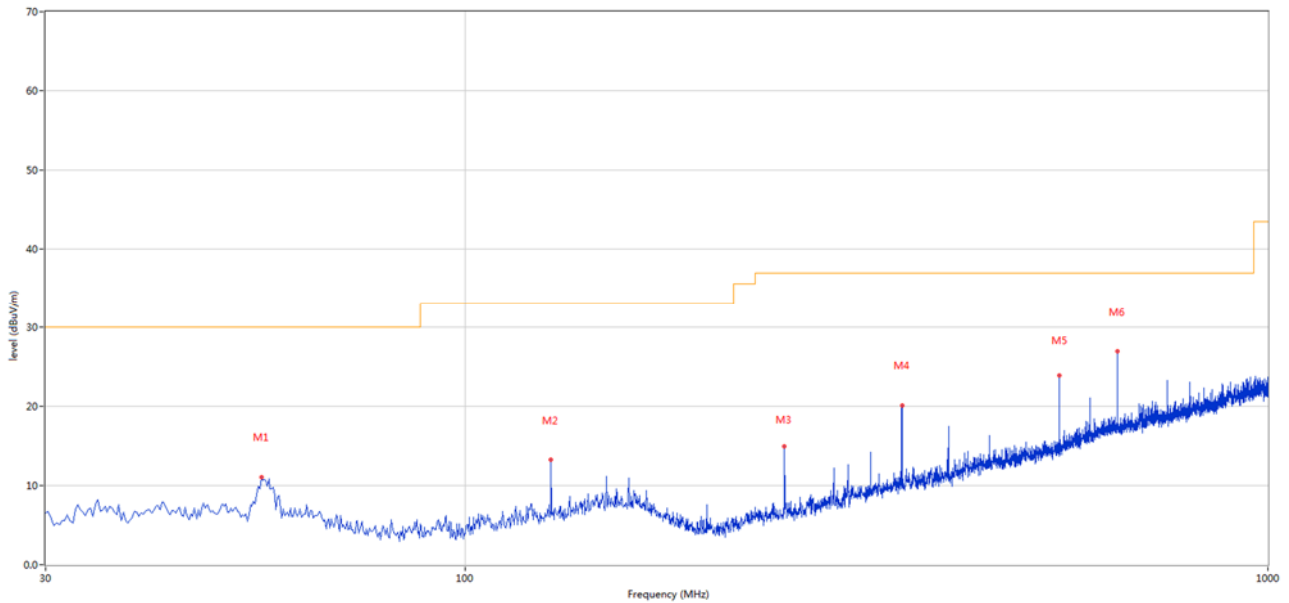
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	57.396	11.01	-27.75	30.0	-18.99	Peak	341.00	300	Horizontal	Pass
2	150.007	12.68	-25.94	33.5	-20.82	Peak	302.00	400	Horizontal	Pass
3	249.893	17.16	-27.39	36.0	-18.84	Peak	221.00	400	Horizontal	Pass
4	350.020	20.93	-24.25	36.0	-15.07	Peak	179.00	300	Horizontal	Pass
5	550.032	24.10	-19.51	36.0	-11.90	Peak	360.00	300	Horizontal	Pass
6	649.918	26.49	-16.93	36.0	-9.51	Peak	322.00	100	Horizontal	Pass

A.1.3 Test Antenna Vertical, 30 MHz – 1 GHz(IC)



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	67.821	12.33	-29.33	30.0	-17.67	Peak	181.00	100	Vertical	Pass
2	150.007	19.51	-25.94	33.1	-13.59	Peak	9.00	100	Vertical	Pass
3	249.893	20.85	-27.39	37.0	-16.15	Peak	9.00	100	Vertical	Pass
4	349.778	23.55	-24.25	37.0	-13.45	Peak	0.00	100	Vertical	Pass
5	550.032	20.33	-19.51	37.0	-16.67	Peak	360.00	200	Vertical	Pass
6	649.918	24.04	-16.93	37.0	-12.96	Peak	194.00	200	Vertical	Pass

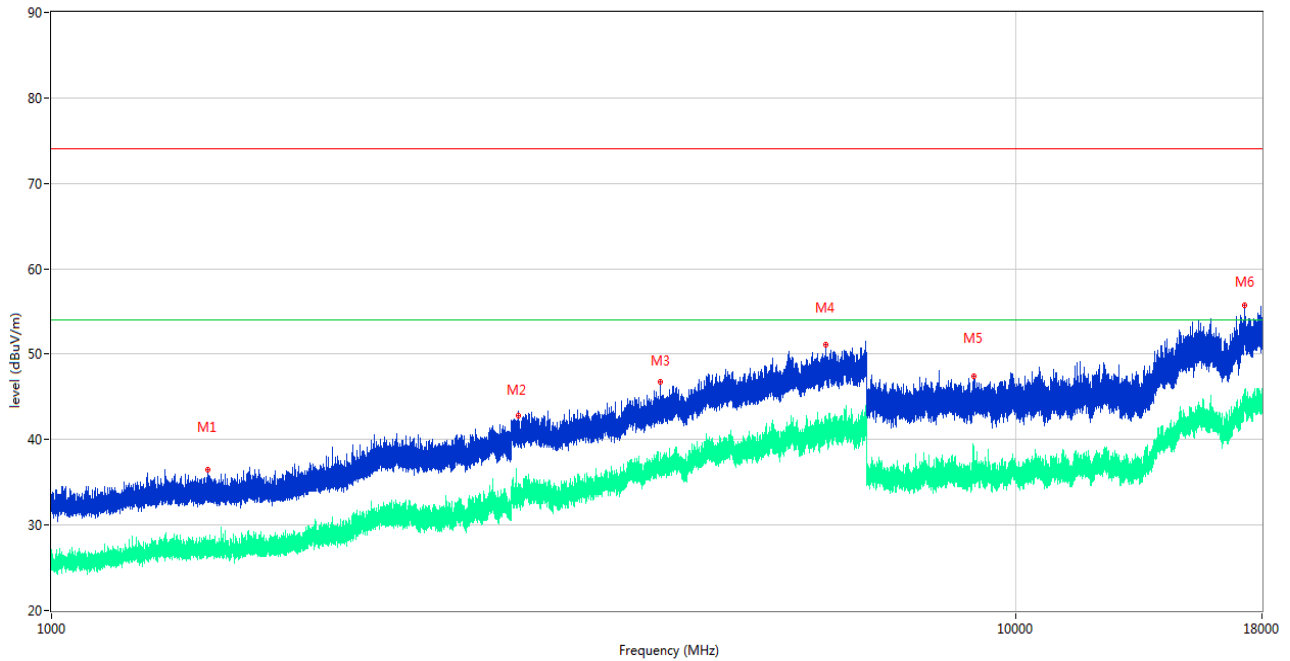
A.1.4 Test Antenna Horizontal, 30 MHz – 1 GHz(IC)



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	55.699	11.08	-27.47	30.0	-18.92	Peak	360.00	200	Horizontal	Pass
2	127.946	13.23	-27.34	33.1	-19.87	Peak	4.00	100	Horizontal	Pass
3	249.893	14.93	-27.39	37.0	-22.07	Peak	215.00	200	Horizontal	Pass
4	350.020	20.13	-24.25	37.0	-16.87	Peak	184.00	200	Horizontal	Pass
5	550.032	23.91	-19.51	37.0	-13.09	Peak	360.00	200	Horizontal	Pass
6	649.918	26.93	-16.93	37.0	-10.07	Peak	300.00	200	Horizontal	Pass

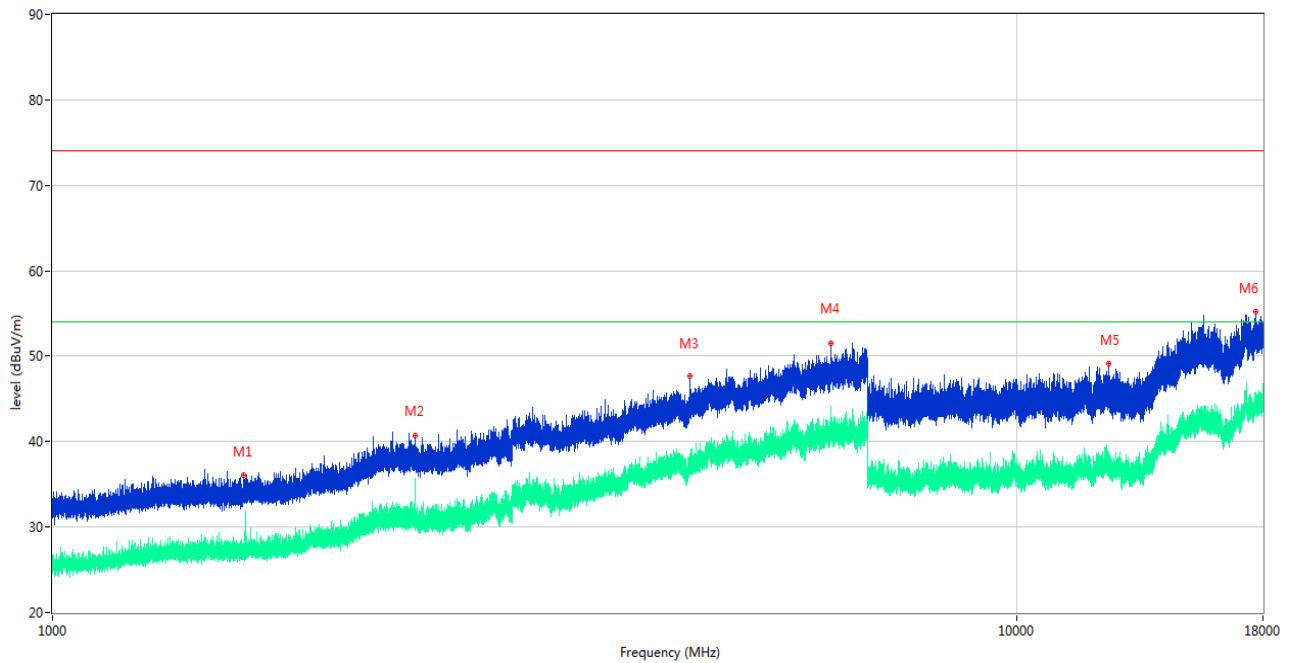
Test Data and Plots (Above 1 GHz)

A.1.5 Test Antenna Vertical, 1 GHz – 18 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1453.200	36.46	-14.71	74.0	-37.54	Peak	67.00	100	Vertical	Pass
1**	1453.200	27.10	-14.71	54.0	-26.90	AV	67.00	100	Vertical	Pass
2	3047.000	42.75	-6.82	74.0	-31.25	Peak	13.00	100	Vertical	Pass
2**	3047.000	33.22	-6.82	54.0	-20.78	AV	13.00	100	Vertical	Pass
3	4282.400	46.71	-3.77	74.0	-27.29	Peak	94.00	100	Vertical	Pass
3**	4282.400	36.59	-3.77	54.0	-17.41	AV	94.00	100	Vertical	Pass
4	6357.800	51.17	2.98	74.0	-22.83	Peak	229.00	100	Vertical	Pass
4**	6357.800	42.09	2.98	54.0	-11.91	AV	229.00	100	Vertical	Pass
5	9050.738	47.41	18.24	74.0	-26.59	Peak	324.00	100	Vertical	Pass
5**	9050.738	35.27	18.24	54.0	-18.73	AV	324.00	100	Vertical	Pass
6	17248.199	55.68	24.20	74.0	-18.32	Peak	8.00	100	Vertical	Pass
6**	17248.199	44.05	24.20	54.0	-9.95	AV	8.00	100	Vertical	Pass

A.1.6 Test Antenna Horizontal, 1 GHz – 18 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1578.100	36.15	-15.25	74.0	-37.85	Peak	14.00	100	Horizontal	Pass
1**	1578.100	27.28	-15.25	54.0	-26.72	AV	14.00	100	Horizontal	Pass
2	2375.600	40.65	-10.50	74.0	-33.35	Peak	301.00	100	Horizontal	Pass
2**	2375.600	34.50	-10.50	54.0	-19.50	AV	301.00	100	Horizontal	Pass
3	4576.200	47.68	-2.32	74.0	-26.32	Peak	253.00	100	Horizontal	Pass
3**	4576.200	38.62	-2.32	54.0	-15.38	AV	253.00	100	Horizontal	Pass
4	6414.000	51.51	3.99	74.0	-22.49	Peak	172.00	100	Horizontal	Pass
4**	6414.000	40.70	3.99	54.0	-13.30	AV	172.00	100	Horizontal	Pass
5	12448.412	49.07	18.66	74.0	-24.93	Peak	273.00	100	Horizontal	Pass
5**	12448.412	37.89	18.66	54.0	-16.11	AV	273.00	100	Horizontal	Pass
6	17678.438	55.19	24.43	74.0	-18.81	Peak	217.00	100	Horizontal	Pass
6**	17678.438	44.46	24.43	54.0	-9.54	AV	217.00	100	Horizontal	Pass

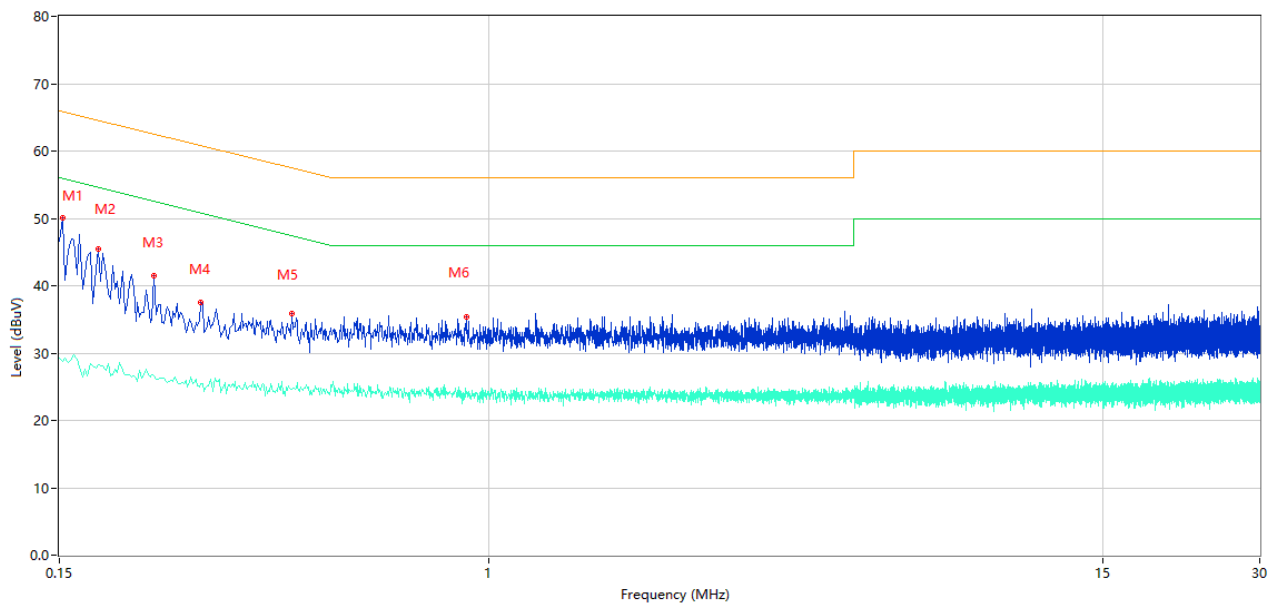
A.2 Conducted Emission

Note: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

Test Data and Plots

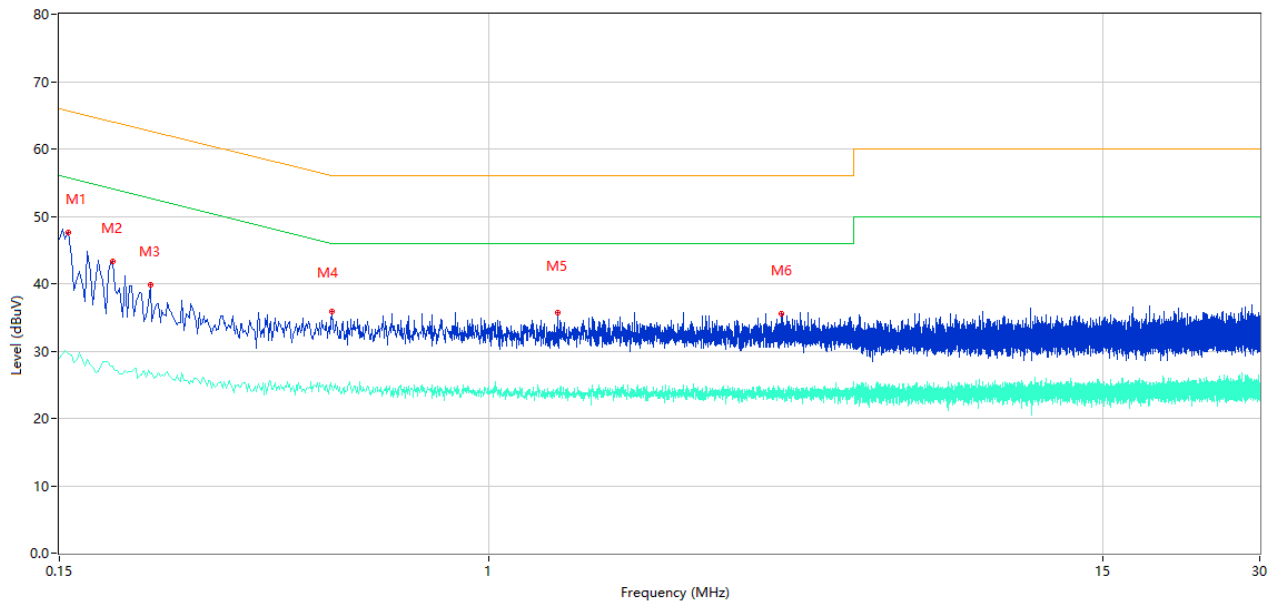
The GPRS 850 MHZ RX Test Mode

A.2.1 L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.152	50.15	10.41	65.89	-15.74	Peak	L	Pass
1**	0.152	28.82	10.41	55.89	-27.07	AV	L	Pass
2	0.178	45.41	10.39	64.58	-19.17	Peak	L	Pass
2**	0.178	28.29	10.39	54.58	-26.29	AV	L	Pass
3	0.228	41.47	10.36	62.52	-21.05	Peak	L	Pass
3**	0.228	26.65	10.36	52.52	-25.87	AV	L	Pass
4	0.280	37.54	10.34	60.82	-23.28	Peak	L	Pass
4**	0.280	25.44	10.34	50.82	-25.38	AV	L	Pass
5	0.418	35.88	10.31	57.49	-21.61	Peak	L	Pass
5**	0.418	24.55	10.31	47.49	-22.94	AV	L	Pass
6	0.906	35.33	10.24	56.00	-20.67	Peak	L	Pass
6**	0.906	24.13	10.24	46.00	-21.87	AV	L	Pass

A.2.2 N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.156	47.59	10.41	65.67	-18.08	Peak	N	Pass
1**	0.156	29.60	10.41	55.67	-26.07	AV	N	Pass
2	0.190	43.26	10.38	64.04	-20.78	Peak	N	Pass
2**	0.190	27.84	10.38	54.04	-26.20	AV	N	Pass
3	0.224	39.83	10.37	62.67	-22.84	Peak	N	Pass
3**	0.224	26.56	10.37	52.67	-26.11	AV	N	Pass
4	0.500	35.87	10.30	56.00	-20.13	Peak	N	Pass
4**	0.500	24.81	10.30	46.00	-21.19	AV	N	Pass
5	1.352	35.68	10.25	56.00	-20.32	Peak	N	Pass
5**	1.352	24.47	10.25	46.00	-21.53	AV	N	Pass
6	3.624	35.49	10.30	56.00	-20.51	Peak	N	Pass
6**	3.624	24.13	10.30	46.00	-21.87	AV	N	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2140097-AE.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2140097-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2140097-AI.PDF”.

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