

FCC/IC Test Report

For:
Resmed Pty Ltd.

Brand:
Resmed Pty Ltd.

Marketing Name:
AIRMINI AUTOSET W AMER

Model Number:
38113

Product Description:
Continuous Positive Airway Pressure (CPAP) Device

FCC ID: 2ACHL-AMBT122
IC: 9103A-AMBT122

Applied Rules and Standards:
47 CFR Parts: 15B, and ICES-003 Issue 7

REPORT : EMC_RSEME_041_25001_FCC15B_Rev2

DATE: 2026-08-07



IC recognized #
3462B

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1 Assessment

The following device as further described in section 3 of this report was evaluated against the applicable criteria specified in the Code of Federal Regulations Title 47 parts 15B and ICES-003 Issue 7.

Radiated and conducted Emission tests are carried out to show that the EUT complies with FCC 15.107; FCC 15.109 (b) and ICES-003, §3.2.1; §3.2.2 limits for Class B device.

There were no additions, deviations, or exclusions made from the test method.

Company Name	Product Description	Model No.
Resmed Pty Ltd.	Continuous Positive Airway Pressure (CPAP) Device	38113

Report Authorized by:

Responsible for testing Laboratory:

2026-08-07	Compliance	Cheng Song (EMC Engineer)	
Date	Section	Name	Signature

Responsible for the Report:

2026-08-07	Compliance	Art Thammanavarat (Lead Engineer)	
Date	Section	Name	Signature

The test results of this test report relate exclusively to the test item specified in Section3.

CETECOM Inc. USA does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of CETECOM Inc. USA.

2 Administrative Data

2.1 Identification of the Testing Laboratory Issuing the EMC Test Report

Company Name:	CETECOM Inc.
Department:	Compliance
Street Address:	411 Dixon Landing Road
City/Zip Code	Milpitas, CA 95035
Country	USA
Telephone:	+1 (408) 586 6200
Fax:	+1 (408) 586 6299
EMC Lab Manager:	David, Bare
Responsible Project Leader:	Ruby, Hall

2.2 Identification of the Client

Client Firm/Name:	Resmed Pty Ltd.
Street Address:	1 Elizabeth Macarthur Dr.
City/Zip Code	Bella Vista NSW 2153
Country	Australia

2.3 Identification of the Manufacturer

Manufacturer's Name:	Same as Client
Manufacturers Address:	
City/Zip Code	
Country	

3 Equipment Under Test (EUT)

3.1 EUT Specifications

Product Description:	Continuous Positive Airway Pressure (CPAP) Device
Model Name :	38113
HW Version :	R380-71035
SW Version :	SW03900
FCC-ID :	2ACHL-AMBT122
IC:	9103A-AMBT122
Bands/Modes Supported	<u>Bluetooth Modules</u> Brand Name : Silicon Labs Model Number : BT122-A FCC: QOQ-BT122 IC: 5123A-BT122 <u>Wireless Technologies</u> Bluetooth BDR/EDR: GFSK, $\pi/4$ DQPSK, 8DPSK
Other Radios included in the device	N/A
Power Supply/ Rated Operating Voltage Range	20W AC Adapter AC Input range: 100-240V, 50-60Hz, 0.5-0.3A, 115V, 400Hz (Aircraft use), 0.4A DC Output: 24V, 0.83A Typical power consumption: 6.3W, Standby: 1W, Peak: 27W
Operating Temperature Range	Low : 5 °C to High 35 °C
Sample Revision	☐ Production ☒ Pre-Production
EUT Dimensions	136mm x 84mm x 52mm
EUT Diameter	☒ < 60 cm ☐ Other _____
Note: The information of the EUT specifications in the table above is provided by the client.	

3.2 EUT details

EUT #	Model Number	Serial Number	HW Version	SW Version	Notes/Comments
1	38113 (TT21)	22261209621	R380-71035	SW03900	Radiated & Conducted Emission
2	38113 (TT19)	22261209638	R380-71035	SW03900	Radiated & Conducted Emission

Note: The differences between the TT21 and TT19 DUTs are limited to the internal motor design. This variation does not affect the device's electrical performance, wireless functionality, RF characteristics, or compliance with applicable regulatory requirements. Therefore, the test results obtained from one DUT are considered representative of the other.

3.3 Accessory Equipment (AE) details

AE #	Type	Model	Manufacturer	Serial Number
1	AC Adaptor	380002	ResMed	VP30004010A1

3.4 Test Setup Configurations

Set-up #	EUT / AE used for set-up	Comments															
1	EUT1+AE1	The EUT is operating in its fully functional mode, with all radio components set to RX mode.															
2	EUT2+AE1	The EUT is operating in its fully functional mode, with all radio components set to RX mode.															
<table><tr><th>Test Mode #</th><th>Number of Presses</th><th>Test Mode Name</th></tr><tr><td colspan="3">Without any presses, the device powers up at the start of Bluetooth Test Mode.</td></tr><tr><td>1</td><td>1st press</td><td>TEST_RX_LOW</td></tr><tr><td>2</td><td>2nd press</td><td>TEST_RX_MID</td></tr><tr><td>3</td><td>3rd press</td><td>TEST_RX_HIGH</td></tr></table>			Test Mode #	Number of Presses	Test Mode Name	Without any presses, the device powers up at the start of Bluetooth Test Mode.			1	1st press	TEST_RX_LOW	2	2nd press	TEST_RX_MID	3	3rd press	TEST_RX_HIGH
Test Mode #	Number of Presses	Test Mode Name															
Without any presses, the device powers up at the start of Bluetooth Test Mode.																	
1	1st press	TEST_RX_LOW															
2	2nd press	TEST_RX_MID															
3	3rd press	TEST_RX_HIGH															

3.5 Justification for a Mode of Operation

For radiated measurements, all data in this report shows the worst case between horizontal and vertical antenna polarizations and for all orientations of the EUT.

4 Subject of Investigation

The objective of the measurements done by CETECOM Inc. was to evaluate the compliance of the EUT against the relevant requirements specified in the Code of Federal Regulations Title 47 parts 15B and ICES-003 Issue 7.

Radiated and conducted Emission tests are carried out to show that the EUT complies with FCC 15.107; FCC 15.109 (b) and ICES-003, §3.2.1; §3.2.2 limits for Class device

4.1 Date of Testing:

2026-05-13 – 2026-05-20

4.2 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus, with 95% confidence interval (in dB delta to result), based on a coverage factor k=2.

Radiated measurement

Measurement System		EMC-1	EMC-2
Conducted emissions (mains port)	150 kHz – 30 MHz	2.44 dB	N/A
Radiated emissions	9 kHz – 30 MHz	2.67 dB	2.53 dB
	30 – 100 MHz	4.38 dB	3.85 dB
	100 MHz – 1 GHz	5.64 dB	5.24 dB
	1 – 6 GHz	5.0 dB	4.88 dB
	6 – 18 GHz	4.75 dB	4.58 dB
	18 – 40 GHz	4.65 dB	4.61 dB

Environmental Conditions during Testing:

The following environmental conditions were maintained during the course of testing:

- Ambient Temperature: 20-25°C
- Relative humidity: 40-60%

Deviating test conditions are indicated at individual test description where applicable.

4.3 Decision Rule:

Cetecom Inc follows ILAC G8:09/2019 chapter 4.2.1 (Simple Acceptance Rule).

Only the measured values related to their corresponding limits will be used to decide whether the equipment under test meets the requirements of the test standards listed in chapter 3. The measurement uncertainty is mentioned in this test report, See chapter 9, but is not taken into account – neither to the limits nor to the measurement results. Measurement results with a smaller margin to the corresponding limits than the measurement uncertainty have a potential risk of more than 5% that the decision might be wrong.

5 **Measurement Procedures**

Test site: Measurements between 30 MHz and 1 GHz are performed in the NSA compliant Semi Anechoic Chamber (SAC). Measurements above 1 GHz are performed in the Semi Anechoic Chamber (SAC) with an additional floor absorber (=> FAC).

5.1 **Testing method 30 MHz - 18 GHz:**

Testing is performed according to the guidelines provided in ANSI C63.4-2014+C63.a-2017 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. And The results are split up into up to 3 frequency ranges due to antenna bandwidth restrictions and according to ANSI C63.4+C63.a-2017 chap. 4.5. Horn antennas are used to cover frequencies above 1 GHz.

5.2 **Radiated Measurement for EUT with diameter less than 60 cm**

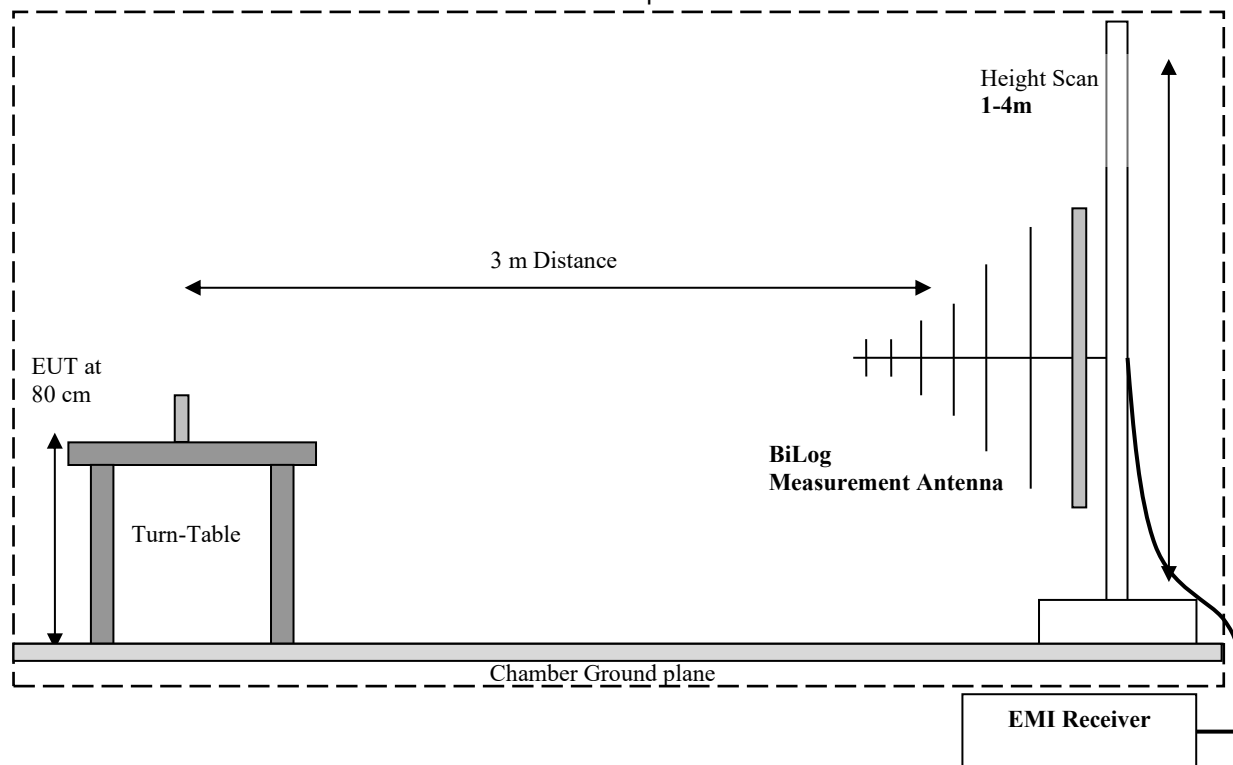
Step 1:

- The exploratory measurement is accomplished by running a matrix of sweeps over the required frequency range with R&S Test-SW EMC32 and continuous turntable movements during Preview (360°), two orthogonal positions of the EUT, and both antenna polarizations (Horizontal/Vertical) at three antenna heights (1, 1.5, 2 meters). This procedure exceeds the requirement of the above standards to cover the 3 orthogonal axes of the EUT. A peak detector and Max-hold trace are utilized during the exploratory measurement. The Test-SW creates an overall maximum trace for all sweeps and saves the settings for each point of this trace. The maximum trace is part of the test report.
- In case there are no emissions above noise floor level only the maximum trace is reported as described above and step 2 is not being performed.

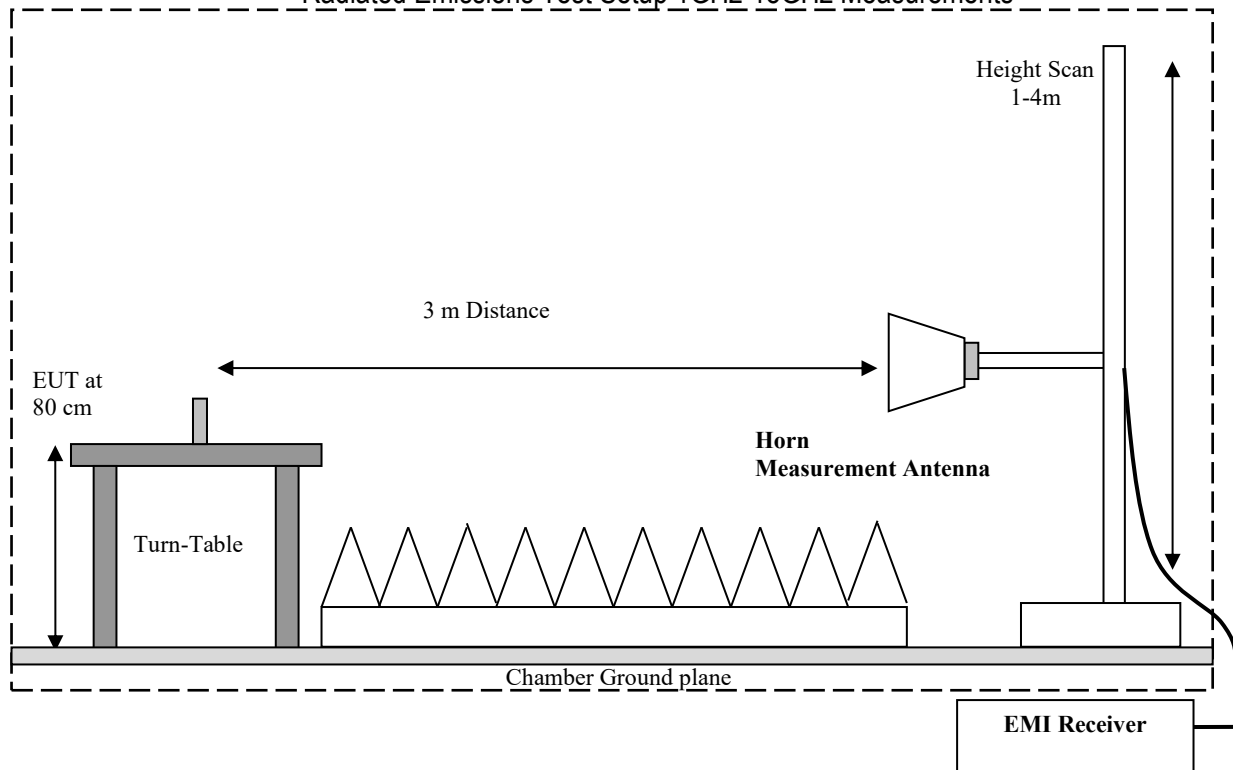
Step 2:

- The 6 highest emissions (emission level 6 dB higher than the noise floor and margin to the limit < 20 dB) are selected with an automatic algorithm of EMC32 searching for peaks in the noise floor and ensuring that broadband signals are not selected multiple times.
- Add a marker to the highest emissions that does not exceed the margin threshold for final measurement.
- The maxima are then put through the final measurement and again maximized in a 90-degree range of the turntable, fine search in the frequency domain, and height scan between 1m and 4m
- In case there are no emissions above noise floor level only the maximum trace is reported as described above.

Radiated Emissions Test Setup 30MHz-1GHz Measurements



Radiated Emissions Test Setup 1GHz-18GHz Measurements



5.3 Sample Calculations for Field Strength Measurements

Field Strength is calculated from the Spectrum Analyzer/ Receiver readings, taking into account the following parameters:

- Measured reading in dB μ V
- Cable Loss between the receiving antenna and SA in dB and
- Antenna Factor in dB/m

All radiated measurement plots in this report are taken from a test SW that calculates the Field Strength based on the following equation:

$$FS \text{ (dB}\mu\text{V/m)} = \text{Measured Value on SA (dB}\mu\text{V)} + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$$

Example:

Frequency (MHz)	Measured SA (dB μ V)	Cable Loss (dB)	Antenna Factor Correction (dB)	Field Strength Result (dB μ V/m)
1000	80.5	3.5	14	98.0

6 Measurement Results Summary

Test Specification	Test Case	Temperature and Voltage Conditions	Mode	Pass	Fail	NA	NP	Result
FCC §15.109 ICES-003, §3.2.2	Radiated Emissions	Nominal	RX Mode	☒	☐	☐	☐	Complies
FCC §15.107 ICES-003, §3.2.1	AC Main Conducted Emissions	Nominal	RX Mode	☒	☐	☐	☐	Complies

Note 1: NA= Not Applicable; NP= Not Performed.

7 Test Result Data

7.1 Radiated Emissions Measurement according to CFR 47 Part 15.109 and ICES-003 3.2.2

Spectrum Analyzer settings		
Sweep Frequency Range	30 MHz – 1 GHz	1 GHz – 40 GHz
Resolution Bandwidth	120 kHz	1 MHz
Detector (Exploratory Measurements)	Peak	Peak, Average
Detector (Final Measurements)	Quasi-Peak	Peak, Average
Trace Mode	Max Hold	Max Hold
Step Size	40 kHz	800 kHz
Measurement Time (Exploratory Measurements)	2 ms	2 ms
Measurement Time (Final Measurements)	100 ms	100 ms

7.1.1 Limits:

FCC §15.109

Class A Limits		
Frequency of emission (MHz)	Field Strength @ 10 m (μV/m)	Field Strength @ 3 m (dBμV/m)
30-88	90	49.5
88-216	150	54
216-960	210	56.9
Above 960	300	60

Class B Limits		
Frequency of emission (MHz)	Field Strength @ 3 m (μV/m)	Field Strength @ 3 m (dBμV/m)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Note: For measurements below 1 GHz, the limits above use a quasi-peak detector. For measurements above 1 GHz, the limits above use an average detector.

ICES-003 sec.3.2.2

Class A Limits		
Frequency of emission (MHz)	Field Strength @ 10 m (dBμV/m)	Field Strength @ 3 m (dBμV/m)
30-88	40	50
88-216	43.5	54
216-230	46.4	56.9
230-960	47	57
Above 960	49.5	60

Class B Limits		
Frequency of emission (MHz)	Field Strength @ 10 m (dBμV/m)	Field Strength @ 3 m (dBμV/m)
30-88	30	40
88-216	33.1	43.5
216-230	35.6	46
230-960	37	47
Above 960	43.5	54

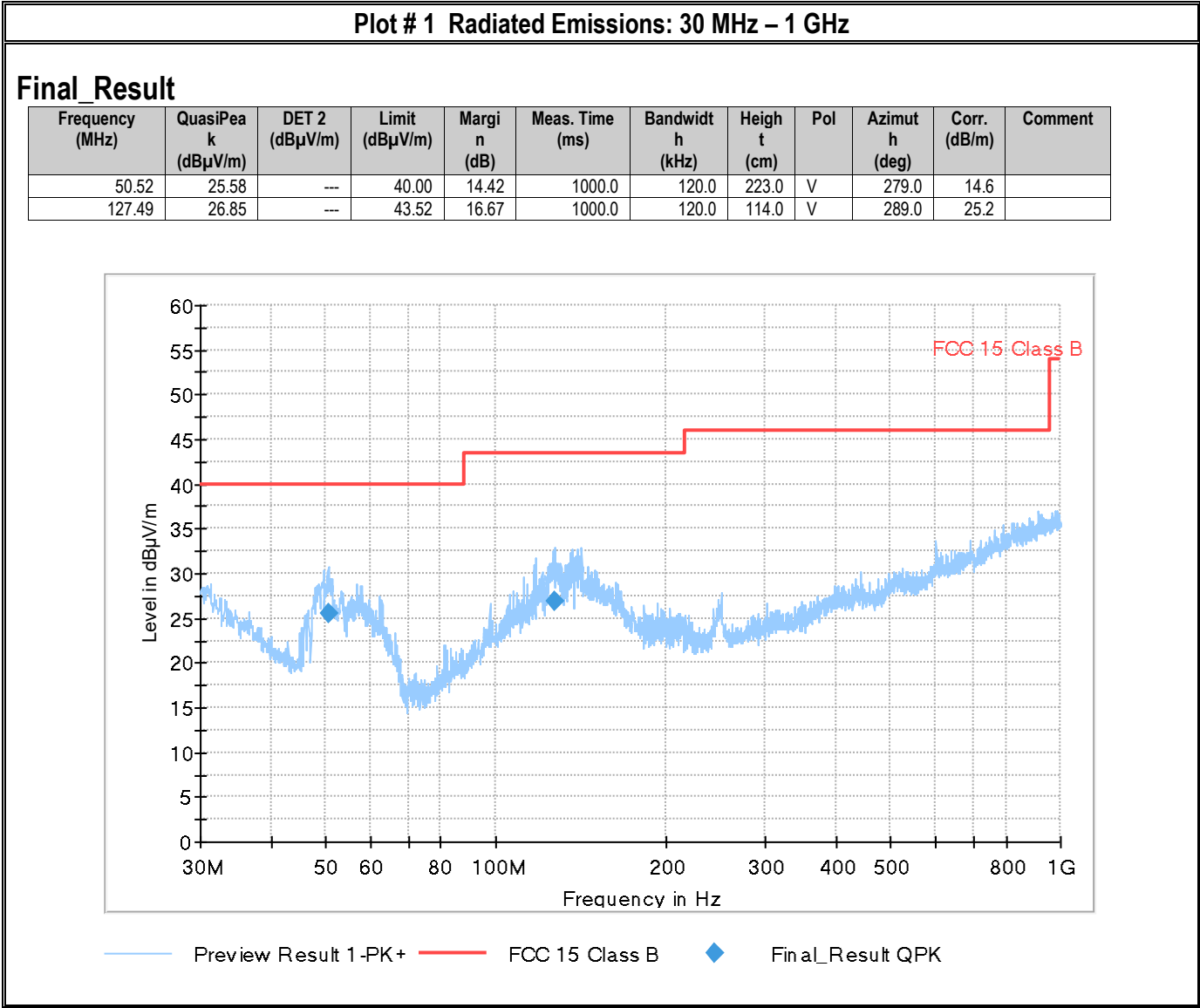
Note: For measurements below 1 GHz, the limits above use a quasi-peak detector. For measurements above 1 GHz, the limits above use an average detector.

7.1.2 Test Summary:

Environmental Conditions	
Ambient Temperature:	20.9°C
Relative Humidity:	32 %
Atmospheric Pressure:	1022 mbar

Test Results					
Plot #	EUT Set-Up #	EUT operating mode	Scan Frequency	Power Supply Input	Result
1 - 3	1	RX Mode	30 MHz – 18 GHz	120 VAC	Pass
4 - 6	2	RX Mode	30 MHz – 18 GHz	120 VAC	Pass

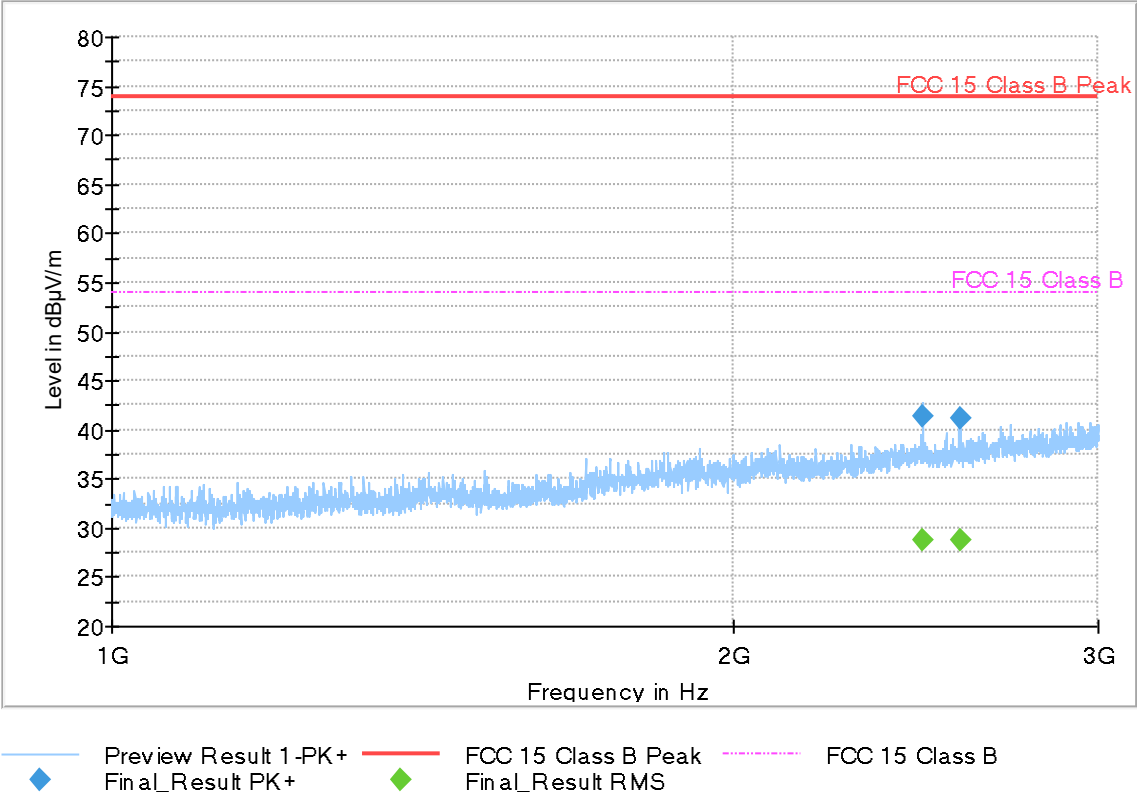
7.1.3 Measurement Plots:



Plot # 2 Radiated Emissions: 1 – 3 GHz

Final_Result

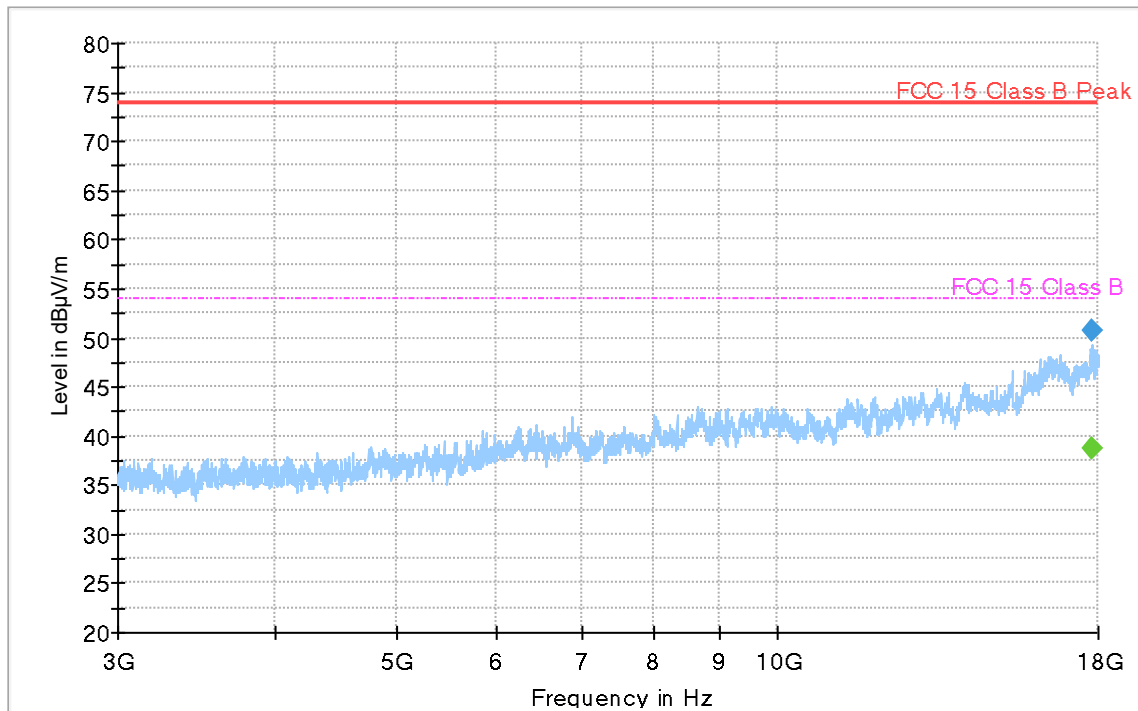
Frequency (MHz)	MaxPeak (dBµV/m)	RMS (dBµV/m)	Limit (dBµV/m)	Margin	Meas. Time (ms)	Bandwidth (Hz)	Height	Pol	Azimuth	Corr. (dB/m)	Comment
2466.10	---	28.65	53.98	25.33	1000.0	1000.0	198.0	V	30.0	8.4	
2466.10	41.43	---	73.98	32.55	1000.0	1000.0	198.0	V	30.0	8.4	
2572.68	---	28.83	53.98	25.15	1000.0	1000.0	322.0	V	179.0	8.8	
2572.68	41.19	---	73.98	32.79	1000.0	1000.0	322.0	V	179.0	8.8	



Plot # 3 Radiated Emissions: 3 – 18 GHz

Final Result

Frequency (MHz)	MaxPeak (dB μ V/m)	RMS (dB μ V/m)	Limit (dB μ V/m)	Margin	Meas. Time (ms)	Bandwidth (Hz)	Height	Pol	Azimuth	Corr. (dB/m)	Comment
17779.85	---	38.72	53.98	15.26	1000.0	1000.0	100.0	H	108.0	16.3	
17779.85	50.61	---	73.98	23.37	1000.0	1000.0	100.0	H	108.0	16.3	

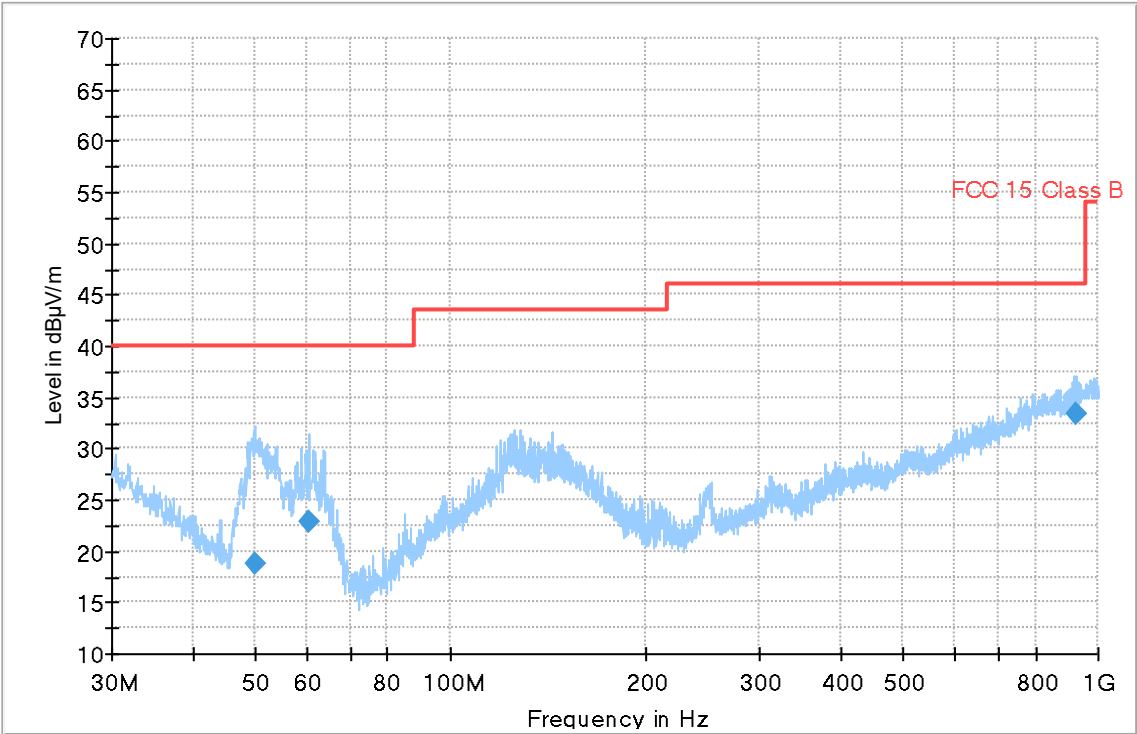


Preview Result 1-PK+ Final_Result PK+ FCC 15 Class B Peak Final_Result RMS FCC 15 Class B

Plot # 4 Radiated Emissions: 30 MHz – 1 GHz

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	DET 2 (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Comment
49.79	18.75	---	40.00	21.25	1000.0	120.0	164.0	V	312.0	14.8	
60.56	22.95	---	40.00	17.05	1000.0	120.0	127.0	V	131.0	12.7	
924.58	33.42	---	46.02	12.60	1000.0	120.0	296.0	H	23.0	32.7	

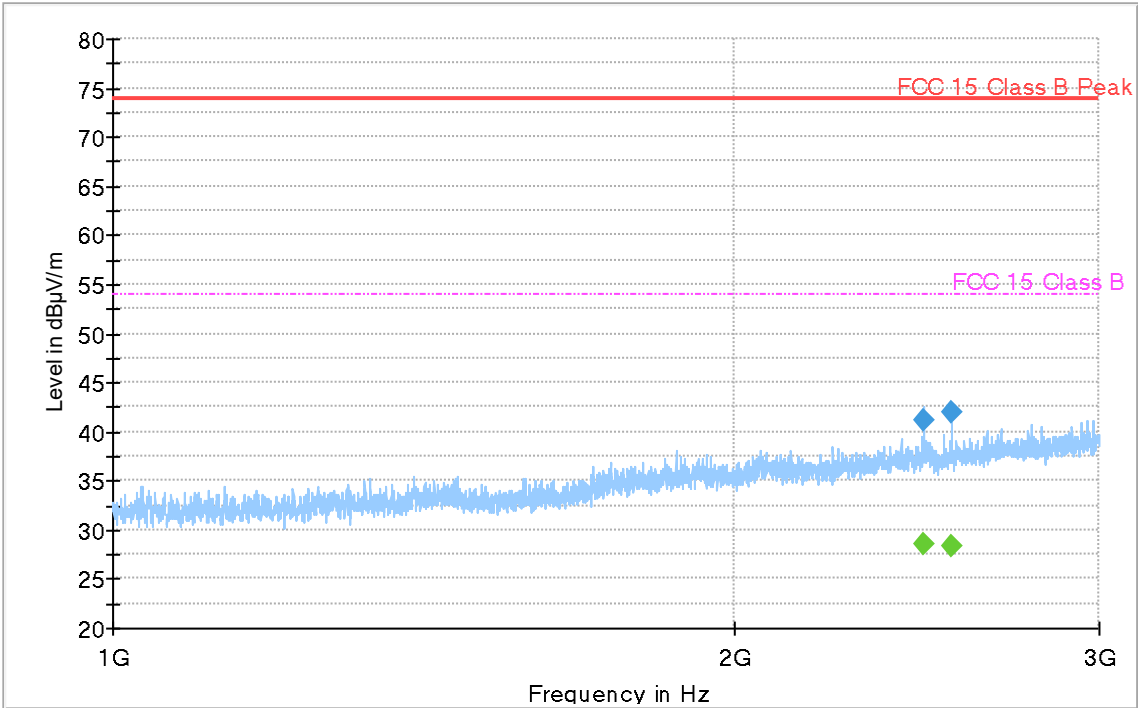


Preview Result 1-PK+ FCC 15 Class B Final_Result QPK

Plot # 5 Radiated Emissions: 1 – 3 GHz

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	RMS (dBμV/m)	Limit (dBμV/m)	Margi n	Meas. Time (ms)	Bandwidt h	Heigh t	Pol	Azimut h	Corr. (dB/m)	Comment
2466.10	41.11	---	73.98	32.87	1000.0	1000.0	262.0	H	260.0	8.4	
2466.10	---	28.55	53.98	25.43	1000.0	1000.0	262.0	H	260.0	8.4	
2543.90	41.87	---	73.98	32.11	1000.0	1000.0	314.0	H	-2.0	8.8	
2543.90	---	28.26	53.98	25.72	1000.0	1000.0	314.0	H	-2.0	8.8	

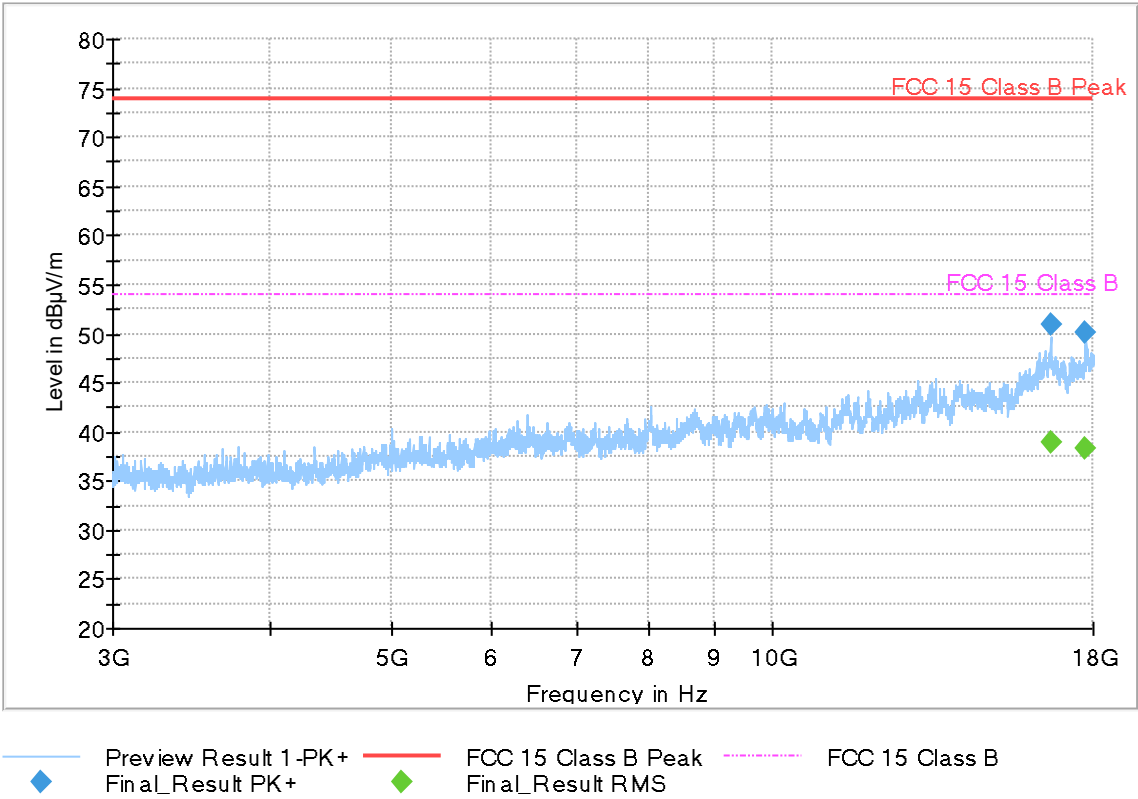


Preview Result 1-PK+ Final_Result PK+ FCC 15 Class B Peak Final_Result RMS FCC 15 Class B

Plot # 6 Radiated Emissions: 3 – 18 GHz

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	RMS (dBμV/m)	Limit (dBμV/m)	Margin	Meas. Time (ms)	Bandwidth (h)	Height (t)	Pol	Azimuth (h)	Corr. (dB/m)	Comment
16646.54	50.84	---	73.98	23.13	1000.0	1000.0	291.0	V	10.0	14.4	
16646.54	---	38.89	53.98	15.09	1000.0	1000.0	291.0	V	10.0	14.4	
17771.54	50.07	---	73.98	23.91	1000.0	1000.0	238.0	H	276.0	16.2	
17771.54	---	38.36	53.98	15.62	1000.0	1000.0	238.0	H	276.0	16.2	



7.2 AC Power Line Conducted Emissions according to CFR 47 Part 15.107 and ICES-003 3.2.1

Spectrum Analyzer Setting	
Frequency band	150 kHz – 30 MHz
Resolution Bandwidth	9 kHz
Detector (Exploratory Measurements)	Peak, Average
Detector (Final Measurements)	Quasi-Peak, Average
Trace Mode	Max Hold
Step Size	4 kHz
Measurement Time	20 ms

7.2.1 Measurement Procedure:

- The EUT and accessories are placed on a non-conducting table 80 cm above the horizontal ground plane and 40 cm from the vertical ground plane.
- Cables that hang closer than 40 cm to the ground plane are gathered into a 30 cm to 40 cm long bundle.
- The power cable of the EUT is connected to the LISN.
- The 6 highest emissions within 20 dB of the limit are noted.

7.2.2 Limits:

Class A Limits		
Frequency of emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	79	66
0.5-30	73	60

Class B Limits		
Frequency of emission (MHz)	Conducted Limit (dB μ V)	
	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

7.2.3 Test Summary:

Environmental Conditions	
Ambient Temperature:	20.9°C
Relative Humidity:	32 %
Atmospheric Pressure:	1022 mbar

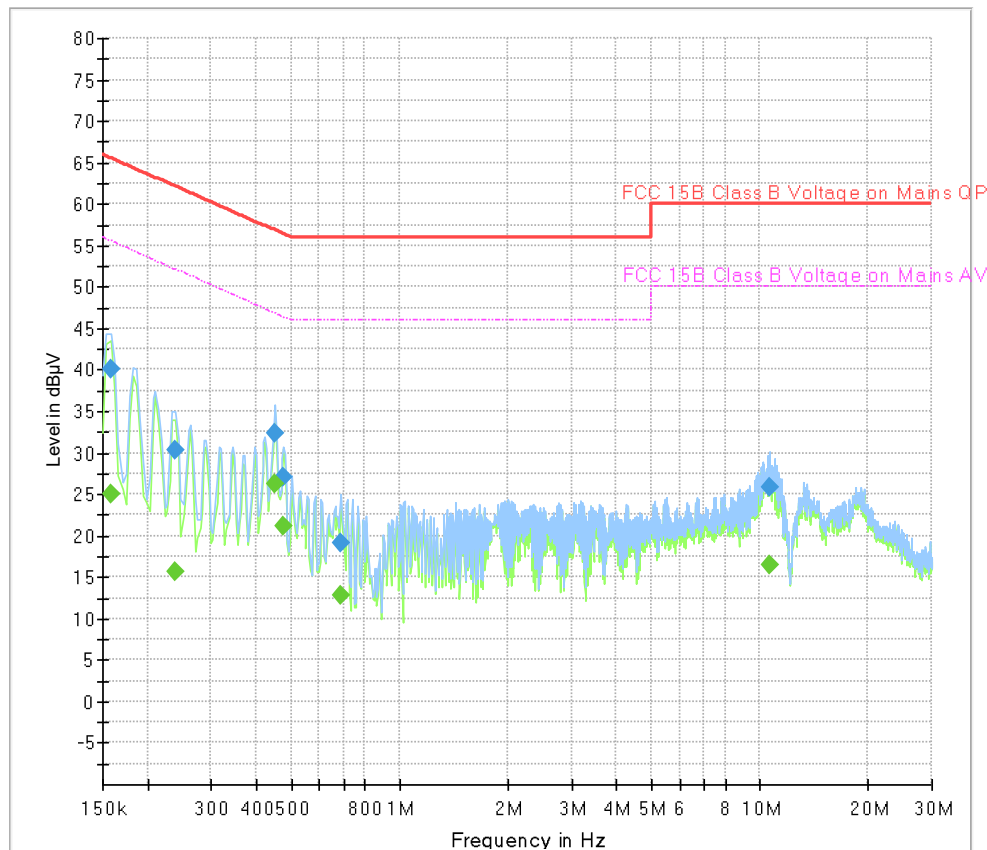
Test Results							
Plot #	EUT Set-Up #	EUT operating mode	Detector (Peak / AVG / QP)	Line Under Test	Power Supply Input	Comments	Result
7	1	RX Mode	Peak & AVG	Line & Neutral	120V AC	-	Pass
8	2	RX Mode	Peak & AVG	Line & Neutral	120V AC	-	Pass

7.2.4 Measurement Plots:

Plot # 7 AC/DC Conducted Emissions: 150 KHz – 30 MHz

Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin	Meas. Time (ms)	Bandwidth (Hz)	Line	PE	Corr. (dB)
0.16	---	25.00	55.57	30.57	1000.0	9.0	L1	GND	10.1
0.16	40.04	---	65.57	25.52	1000.0	9.0	L1	GND	10.1
0.24	---	15.74	52.14	36.40	1000.0	9.0	L1	GND	10.0
0.24	30.24	---	62.14	31.90	1000.0	9.0	L1	GND	10.0
0.45	---	26.34	46.83	20.49	1000.0	9.0	L1	GND	9.9
0.45	32.34	---	56.83	24.49	1000.0	9.0	L1	GND	9.9
0.48	27.09	---	56.40	29.30	1000.0	9.0	L1	GND	9.9
0.48	---	21.08	46.40	25.32	1000.0	9.0	L1	GND	9.9
0.69	19.21	---	56.00	36.79	1000.0	9.0	L1	GND	9.9
0.69	---	12.78	46.00	33.22	1000.0	9.0	L1	GND	9.9
10.60	---	16.47	50.00	33.53	1000.0	9.0	L1	GND	10.0
10.60	25.76	---	60.00	34.24	1000.0	9.0	L1	GND	10.0

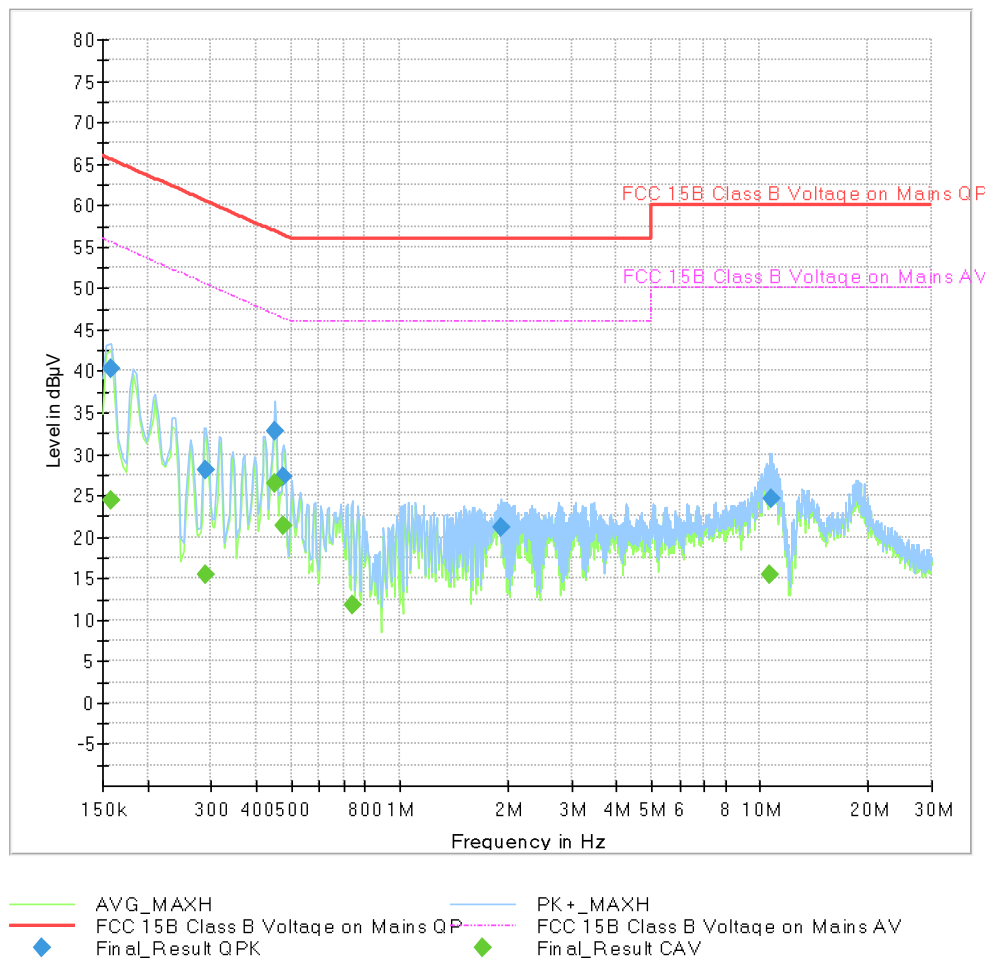


— AVG_MAXH — PK+_MAXH
— FCC 15B Class B Voltage on Mains QP — FCC 15B Class B Voltage on Mains AV
◆ Final_Result QPK ◆ Final_Result CAV

Plot # 8 AC/DC Conducted Emissions: 150 KHz – 30 MHz

Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin	Meas. Time (ms)	Bandwidth (Hz)	Line	PE	Corr. (dB)
0.16	40.20	---	65.57	25.37	1000.0	9.0	N	GND	10.2
0.16	---	24.48	55.57	31.09	1000.0	9.0	N	GND	10.2
0.29	---	15.47	50.49	35.03	1000.0	9.0	N	GND	10.0
0.29	27.99	---	60.49	32.50	1000.0	9.0	N	GND	10.0
0.45	---	26.47	46.83	20.36	1000.0	9.0	N	GND	9.9
0.45	32.66	---	56.83	24.17	1000.0	9.0	N	GND	9.9
0.48	27.26	---	56.40	29.13	1000.0	9.0	L1	GND	9.9
0.48	---	21.34	46.40	25.06	1000.0	9.0	L1	GND	9.9
0.74	---	11.87	46.00	34.13	1000.0	9.0	L1	GND	9.9
1.90	21.06	---	56.00	34.94	1000.0	9.0	N	GND	9.9
10.68	---	15.50	50.00	34.50	1000.0	9.0	N	GND	10.0
10.71	24.63	---	60.00	35.37	1000.0	9.0	N	GND	10.0



8 Test setup photos

Setup photos are included in supporting file name: "EMC_RSEME_041_25001_FCC_15B_Setup_Photos"

9 Test Equipment and Ancillaries Used For Testing

EMC Lab 1

Equipment Type	Manufacturer	Model	Serial #	Calibration Cycle	Last Calibration Date
BILOG ANTENNA	ETS.LINDGREN	3142E	166067	3 Years	08/01/2024
HORN ANTENNA	EMCO	3115	00035114	3 Years	09/17/2025
HORN ANTENNA	ETS.LINDGREN	3117	00215984	3 Years	09/22/2025
TEST RECEIVER	R&S	ESW44	103143	2 Years	09/12/2024
DIGITAL THERMOMETER	CONTROL COMPANY	4410,90080-03	230713059	3 Years	10/18/2023
PULSE LIMITER	R&S	ESH3-Z2	102473	3 Years	09/08/2025
LISN	FCC	FCC-LISN-50-25-2-08	08014	2 Years	09/08/2025
Multimeter	Fluke	115	56090717MV	3 Years	09/25/2025
Software	EMC32	Version 11.40.00	-	-	-

Note: Equipment used meets the measurement uncertainty requirements as required per applicable standards for 95% confidence levels.

Calibration due dates, unless defined specifically, falls on the last day of the month. Items indicated "N/A" for cal status either do not specifically require calibration or is internally characterized before use.

10 Revision History

Date	Report Name	Changes to report	Prepared by
2026-06-10	EMC_RSEME_041_25001_FCC15B	Initial Version	Art Thammanavarat
2026-07-28	EMC_RSEME_041_25001_FCC15B_Rev1	Updated Product Description. Updated IC Section 3.3: Added Serial Number and Added note. Section 3.4: Added AC adaptor.	Art Thammanavarat
2026-08-07	EMC_RSEME_041_25001_FCC15B_Rev2	Section 1: Removed Responsible party for the report.	Art Thammanavarat

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