

Radiated Emissions Test Results Above 1GHz

EUT Name	Smart Diagnostic System	Model Name	F530
Temperature	20.6°C	Relative Humidity	51.1%
Pressure	960hPa	Test Voltage	DC 3.6V by battery
Operation Frequency	U-NII 2A: 5250MHz~5350MHz	Antenna	Horizontal/Vertical
Test Mode	802.11a_5320MHz	Battery Model 1	XBL18650-3150

Radiated Emission Above 1GHz–Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10640.00	47.48	9.14	56.62	68.20	-11.58	peak
15960.00	43.56	10.22	53.78	74.00	-20.22	peak
15960.00	33.41	10.22	43.63	54.00	-10.37	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
10640.00	46.33	9.14	55.47	68.20	-12.73	peak
15960.00	42.65	10.22	52.87	74.00	-21.13	peak
15960.00	32.48	10.22	42.70	54.00	-11.30	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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Temperature	20.6°C	Relative Humidity	51.1%
Pressure	960hPa	Test Voltage	DC 3.6V by battery
Operation Frequency	U-NII 2A: 5250MHz~5350MHz	Antenna	Horizontal/Vertical
Test Mode	802.11a_5260MHz	Battery Model 2	01DQ0180-03

Radiated Emission Above 1GHz–Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10520.00	45.26	9.14	54.40	68.20	-13.80	peak
15780.00	41.25	10.22	51.47	74.00	-22.53	peak
15780.00	32.87	10.22	43.09	54.00	-10.91	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
10520.00	45.57	9.14	54.71	68.20	-13.49	peak
15780.00	41.10	10.22	51.32	74.00	-22.68	peak
15780.00	32.19	10.22	42.41	54.00	-11.59	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT Name	Smart Diagnostic System	Model Name	F530
Temperature	20.6°C	Relative Humidity	51.1%
Pressure	960hPa	Test Voltage	DC 3.6V by battery
Operation Frequency	U-NII 2A: 5250MHz~5350MHz	Antenna	Horizontal/Vertical
Test Mode	802.11a_5300MHz	Battery Model 2	01DQ0180-03

Radiated Emission Above 1GHz–Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10600.00	45.07	9.14	54.21	68.20	-13.99	peak
15900.00	41.11	10.22	51.33	74.00	-22.67	peak
15900.00	32.53	10.22	42.75	54.00	-11.25	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
10600.00	44.46	9.14	53.60	68.20	-14.60	peak
15900.00	39.32	10.22	49.54	74.00	-24.46	peak
15900.00	30.41	10.22	40.63	54.00	-13.37	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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Radiated Emissions Test Results Above 1GHz

EUT Name	Smart Diagnostic System	Model Name	F530
Temperature	20.6°C	Relative Humidity	51.1%
Pressure	960hPa	Test Voltage	DC 3.6V by battery
Operation Frequency	U-NII 2A: 5250MHz~5350MHz	Antenna	Horizontal/Vertical
Test Mode	802.11a_5320MHz	Battery Model 2	01DQ0180-03

Radiated Emission Above 1GHz–Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10640.00	46.59	9.14	55.73	68.20	-12.47	peak
15960.00	42.47	10.22	52.69	74.00	-21.31	peak
15960.00	32.58	10.22	42.80	54.00	-11.20	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
10640.00	45.91	9.14	55.05	68.20	-13.15	peak
15960.00	41.47	10.22	51.69	74.00	-22.31	peak
15960.00	31.65	10.22	41.87	54.00	-12.13	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Result: Pass

Note:

1. The amplitude of other spurious emissions from 1GHz to 25 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	Smart Diagnostic System	Model Name	F530
Temperature	24.4°C	Relative Humidity	40.0%
Pressure	960hPa	Test Voltage	DC 3.6V by battery
Battery Model 1	XBL18650-3150		

802.11a_TX CH36_5180 MHz

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	5150	54.06	29.99	30.21	10.35	64.19	74	-9.81	Peak	Horizontal
2	5150	38.22	29.99	30.21	10.35	48.345	54	-5.66	AV	Horizontal
3	5150	51.87	29.99	30.21	10.35	62.002	74	-12.00	Peak	Vertical
4	5150	36.29	29.99	30.21	10.35	46.42	54	-7.58	AV	Vertical

802.11n40_TX CH38_5190 MHz

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	5150	51.51	29.99	30.21	10.35	61.643	74	-12.36	Peak	Horizontal
2	5150	38.56	29.99	30.21	10.35	48.692	54	-5.31	AV	Horizontal
3	5150	48.13	29.99	30.21	10.35	58.263	74	-15.74	Peak	Vertical
4	5150	35.79	29.99	30.21	10.35	45.923	54	-8.08	AV	Vertical

802.11ac80_TX 42_5210 MHz

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	5150	49.39	29.99	30.21	10.35	59.52	74	-14.48	Peak	Horizontal
2	5150	38.56	29.99	30.21	10.35	48.69	54	-5.31	AV	Horizontal
3	5150	45.75	29.99	30.21	10.35	55.882	74	-18.12	Peak	Vertical
4	5150	35.73	29.99	30.21	10.35	45.862	54	-8.14	AV	Vertical

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802.11a_TX CH52_ 5320 MHz										
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	5350	53.15	29.99	30.21	10.65	63.578	74	-10.42	Peak	Horizontal
2	5350	35.76	29.99	30.21	10.65	46.185	54	-7.82	AV	Horizontal
3	5350	48.79	29.99	30.21	10.65	59.221	74	-14.78	Peak	Vertical
4	5350	30.73	29.99	30.21	10.65	41.16	54	-12.84	AV	Vertical
802.11n40_TX CH54_ 5310 MHz										
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	5350	47.91	29.99	30.21	10.65	58.342	74	-15.66	Peak	Horizontal
2	5350	34.67	29.99	30.21	10.65	45.101	54	-8.90	AV	Horizontal
3	5350	45.62	29.99	30.21	10.65	56.05	74	-17.95	Peak	Vertical
4	5350	32.61	29.99	30.21	10.65	43.04	54	-10.96	AV	Vertical
802.11ac80_TX 58_ 5290 MHz										
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	5350	43.49	29.99	30.21	10.65	53.922	74	-20.08	Peak	Horizontal
2	5350	31.67	29.99	30.21	10.65	42.1	54	-11.90	AV	Horizontal
3	5350	40.59	29.99	30.21	10.65	51.023	74	-22.98	Peak	Vertical
4	5350	29.18	29.99	30.21	10.65	39.609	54	-14.39	AV	Vertical

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802.11a_TX CH100_5500 MHz										
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	5460	50.28	29.99	30.21	10.95	61.008	74	-12.99	Peak	Horizontal
2	5460	31.37	29.99	30.21	10.95	42.102	54	-11.90	AV	Horizontal
3	5460	47.18	29.99	30.21	10.95	57.913	74	-16.09	Peak	Vertical
4	5460	27.82	29.99	30.21	10.95	38.549	54	-15.45	AV	Vertical
802.11n40_TX CH102_5510 MHz										
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	5460	48.03	29.99	30.21	10.95	58.757	74	-15.24	Peak	Horizontal
2	5460	34.37	29.99	30.21	10.95	45.098	54	-8.90	AV	Horizontal
3	5460	44.96	29.99	30.21	10.95	55.687	74	-18.31	Peak	Vertical
4	5460	30.50	29.99	30.21	10.95	41.228	54	-12.77	AV	Vertical
802.11ac80_TX 106_5530 MHz										
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	5460	50.84	29.99	30.21	10.95	61.573	74	-12.43	Peak	Horizontal
2	5460	38.43	29.99	30.21	10.95	49.162	54	-4.84	AV	Horizontal
3	5460	49.56	29.99	30.21	10.95	60.292	74	-13.71	Peak	Vertical
4	5460	37.58	29.99	30.21	10.95	48.307	54	-5.69	AV	Vertical

Result: Pass

Note:

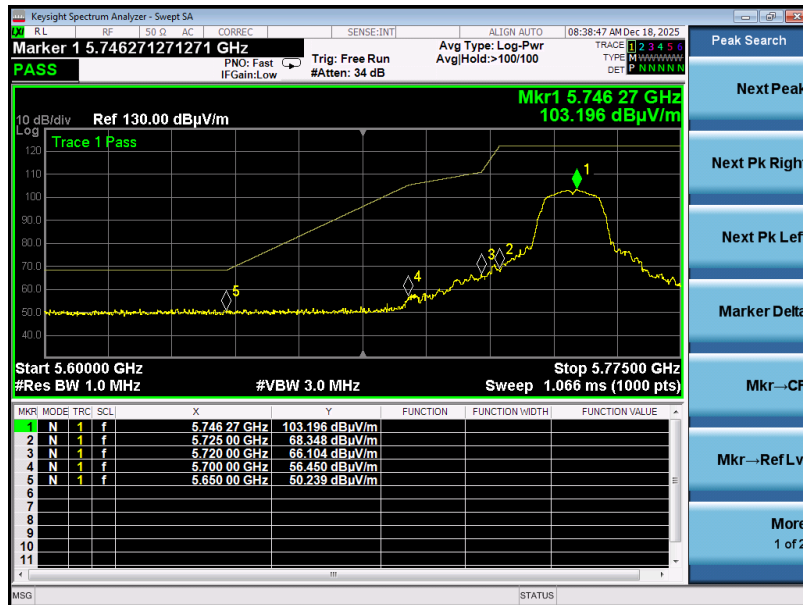
1. The factor had been edited in the "Input Correction" of the Spectrum Analyzer.
2. All test modes had been pre-tested, Refer to Chapter 5 of the report for details.

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Test Result for Band edge Emission at Restricted bands

EUT Name	Smart Diagnostic System	Model Name	F530
Temperature	25.2°C	Relative Humidity	45.1%
Pressure	960hPa	Test Voltage	DC 3.6V by battery
Test Mode	802.11a_5745MHz	Antenna	Horizontal
Battery Model 1	XBL18650-3150		

Test Graph for Peak Measurement

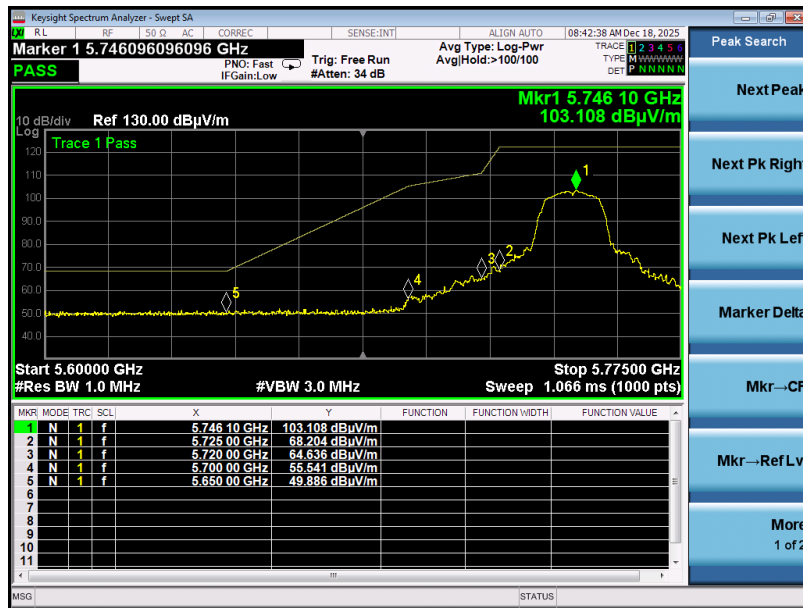


Result: Pass

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EUT Name	Smart Diagnostic System	Model Name	F530
Temperature	24.4°C	Relative Humidity	40.0%
Pressure	960hPa	Test Voltage	DC 3.6V by battery
Test Mode	802.11a_5745MHz	Antenna	Vertical
Battery Model 1	XBL18650-3150		

Test Graph for Peak Measurement



Result: Pass

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EUT Name	Smart Diagnostic System	Model Name	F530
Temperature	24.4°C	Relative Humidity	40.0%
Pressure	960hPa	Test Voltage	DC 3.6V by battery
Test Mode	802.11a_5825MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Result: Pass

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EUT Name	Smart Diagnostic System	Model Name	F530
Temperature	24.4°C	Relative Humidity	40.0%
Pressure	960hPa	Test Voltage	DC 3.6V by battery
Test Mode	802.11a_5825MHz	Antenna	Vertical

Test Graph for Peak Measurement



Result: Pass

Note:

1. The factor had been edited in the “Input Correction” of the Spectrum Analyzer.
2. All test modes had been pre-tested, Refer to Chapter 5 of the report for details.

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12. AC Power Line Conducted Emission Test

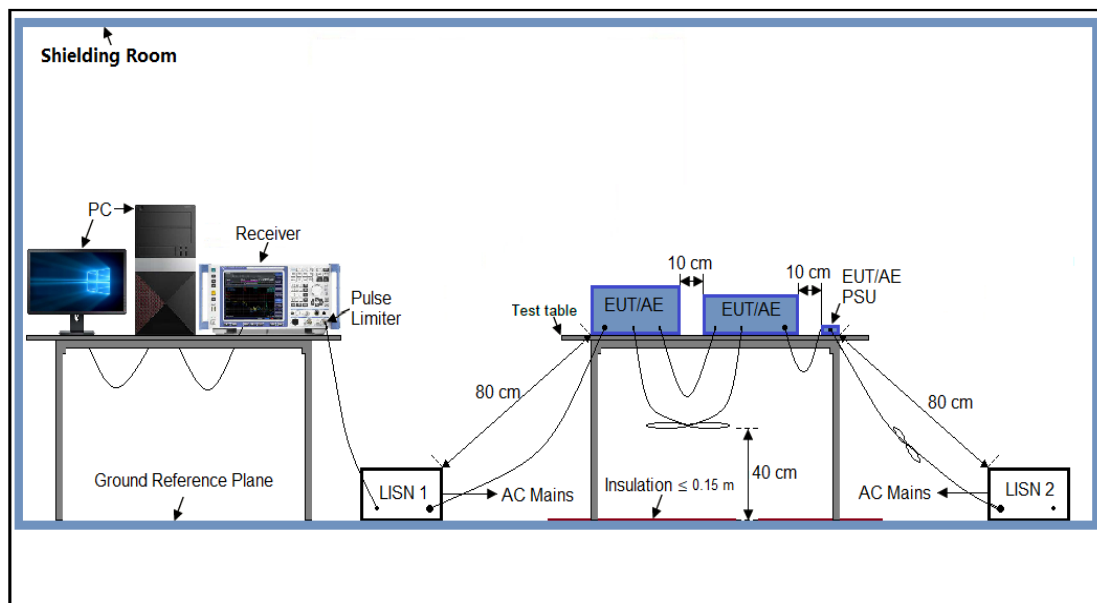
12.1 Measurement limit

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 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 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.

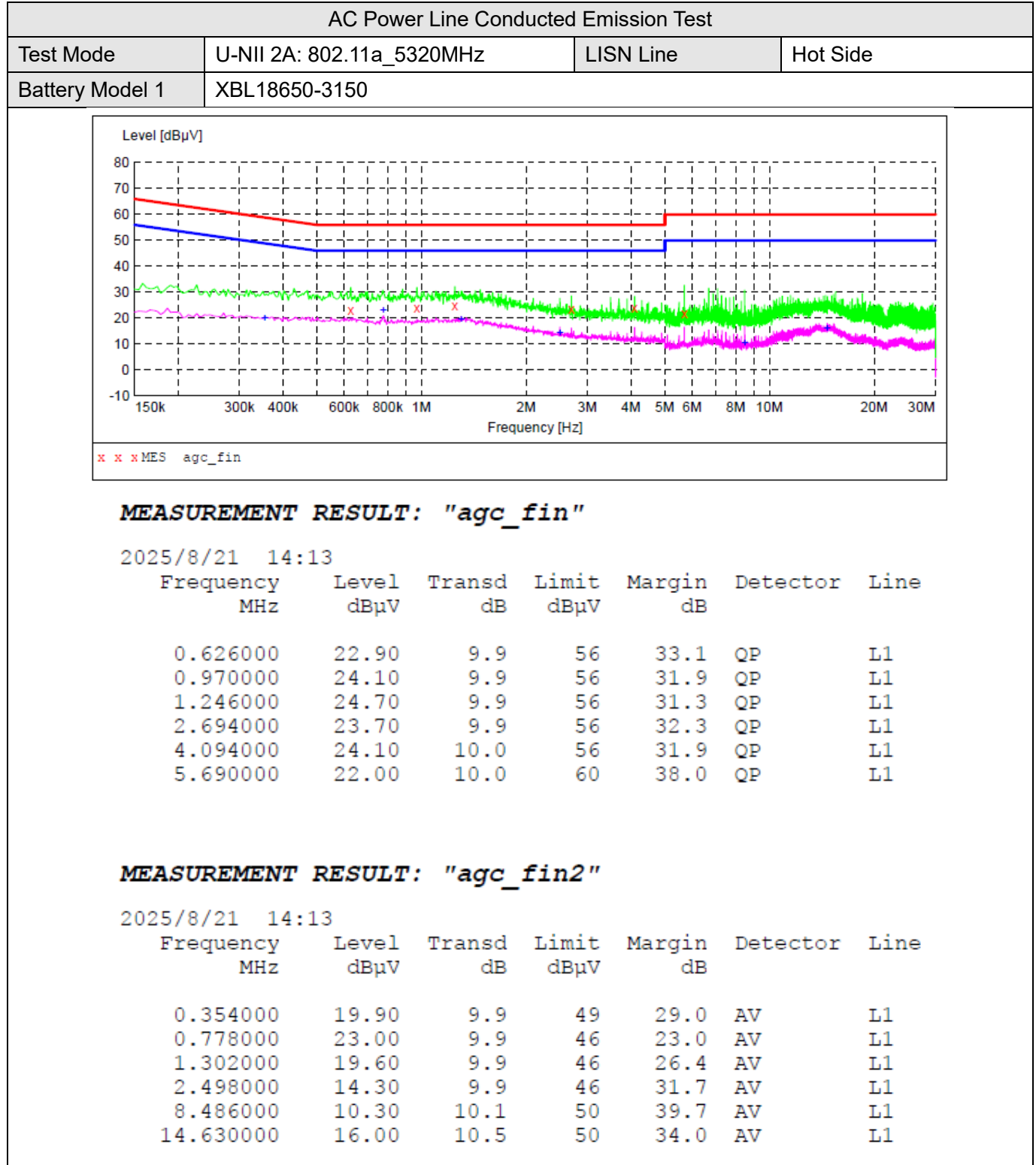
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

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

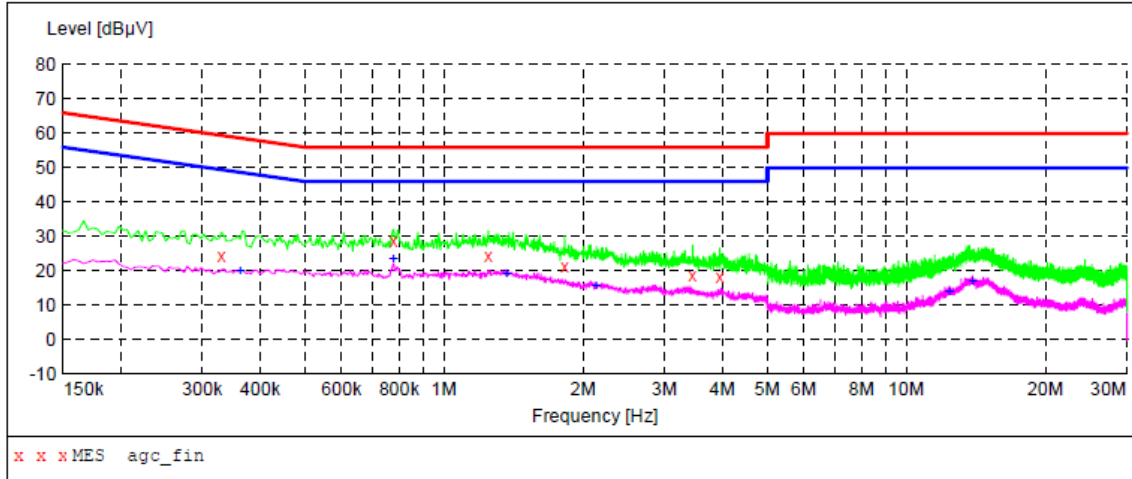


Result: Pass

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AC POWER LINE CONDUCTED EMISSION TEST

Test Mode	U-NII 2A: 802.11a_5320MHz	LISN Line	Neutral Side
Battery Model 1	XBL18650-3150		



MEASUREMENT RESULT: "agc_fin"

2025/8/21 14:26

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.330000	24.40	9.9	60	35.1	QP	N
0.778000	28.70	9.9	56	27.3	QP	N
1.246000	24.60	9.9	56	31.4	QP	N
1.822000	21.50	9.9	56	34.5	QP	N
3.450000	18.80	10.0	56	37.2	QP	N
3.950000	18.40	10.0	56	37.6	QP	N

MEASUREMENT RESULT: "agc_fin2"

2025/8/21 14:26

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.362000	20.00	9.9	49	28.7	AV	N
0.778000	23.50	9.9	46	22.5	AV	N
1.366000	19.10	9.9	46	26.9	AV	N
2.134000	15.70	9.9	46	30.3	AV	N
12.374000	14.10	10.4	50	35.9	AV	N
13.902000	16.90	10.5	50	33.1	AV	N

Result: Pass

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC16626250804AP02

Appendix II: Photographs of EUT

Refer to the Report No.: AGC16626250804AP03

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Attestation of Global Compliance(Shenzhen)Co., Ltd

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Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").
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----

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

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