

Prüfbericht-Nr.: Test report no.:	CN23QG53 002	Auftrags-Nr.: Order no.:	168428354 P01070601	Seite 1 von 16 Page 1 of 16
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2023-05-25	
Auftraggeber: Client:	ELSYS EQUIPAMENTOS ELETRONICOS LTD RUA DOUTOR ALCIDES GOMES MIRANDA, 251, Valinhos, Brazil			
Prüfgegenstand: Test item:	Amplimax Ultra			
Bezeichnung / Typ-Nr.: Identification / Type no.:	EPRL30			
Auftrags-Inhalt: Order content:	Test Report			
Prüfgrundlage: Test specification:	47 CFR Part 15 Subpart C 15.247 47 CFR Part 15 Subpart C 15.207 47 CFR Part 15 Subpart C 15.209			
Wareneingangsdatum: Date of sample receipt:	2023-08-17			
Prüfmuster-Nr.: Test sample no:	A003541536-003			
Prüfzeitraum: Testing period:	2023-09-07 – 2024-01-31			
Ort der Prüfung: Place of testing:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:	<u>X  Hardy Suo</u>		genehmigt von: authorized by:	<u>X  Lin Lin</u>
Datum: Date:	2024-04-07		Ausstellungsdatum: Issue date:	2024-04-07
Stellung / Position:	Sachverständige(r)/Expert		Stellung / Position:	Sachverständige(r)/Expert
Sonstiges / Other:	FCC ID:2AZC5-02			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:		Prüfmuster vollständig und unbeschädigt Test item complete and undamaged		
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet			
* Legend:	P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested			
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

Anmerkungen

Remarks

- | | |
|----------|---|
| 1 | <p>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system.</p> <p>Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</p> <p><i>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben.</i></p> <p><i>Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</i></p> |
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| 3 | <p>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report. Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</p> <p><i>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</i></p> |
| 4 | <p>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</p> <p><i>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezueglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</i></p> |

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TEST SUMMARY

5.1.1 RADIATED SPURIOUS EMISSIONS

RESULT: Pass

5.1.2 CONDUCTED EMISSION

RESULT: Pass

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1. GENERAL REMARKS

1.1 COMPLEMENTARY MATERIALS

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Results of Bluetooth and Wi-Fi Operation

Appendix B: Photographs of the Test Set-Up

1.2 TEST STANDARD(S)

Applied Rules: 47 CFR Part 15 Subpart C Section 15.247
47 CFR Part 15 Subpart C Section 15.207
47 CFR Part 15 Subpart C Section 15.209

Test Method: ANSI C63.10:2013
KDB 558074 D01 15.247 Meas Guidance v05r02

1.3 List of Document Change

No.	Report No.	Description
1	CN23QG53 002	First release.

2. TEST SITES

2.1 TEST FACILITIES

TÜV Rheinland (Shenzhen) Co., Ltd.

(FCC Registration No.: 694916 & IC Registration Number: 25069)

Address: No. 362 Huanguan Road Middle, Longhua District, Shenzhen 518110, P.R. China

2.2 TEST DATE

Date of test: 2023-09-07 to 2024-01-31

2.3 LIST OF TEST AND MEASUREMENT INSTRUMENTS

Table 1: List of Test and Measurement Equipment

Description	Manufacturer	Model	Serial No.	Calibrated until (DD.MM.YYYY)
Field Strength of Spurious Radiation				
EMI Test Receiver	R&S	ESR 7	102021	25.07.2024
Signal Analyzer	R&S	FSV 40	101439	25.07.2024
System Controller Interface	R&S	SCI-100	S10010038	N/A
Filterbank	R&S	Wlan	100759	25.07.2024
OSP	R&S	OSP 120	102040	N/A
Pre-amplifier	R&S	SCU08F1	08320031	25.07.2024
Amplifier	R&S	SCU-18F	180070	25.07.2024
Amplifier	R&S	SCU40A	100475	25.07.2024
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	06.08.2024
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	06.08.2024
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	27.08.2024
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	06.08.2024
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A

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3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	22.06.2024
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2.4 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

2.5 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. facility located at No. 362 Huanguan Road Middle, Longhua District, Shenzhen 518110, P.R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3. GENERAL PRODUCT INFORMATION

3.1 GENERAL DESCRIPTION

The EUT is outdoor CPE with embedded directional antenna for fixed wireless access used for internet access. It transmits data over 4G and 5G cellular network. It supports Bluetooth and Wi-Fi wireless function.

The pre-certified Bluetooth and Wi-Fi modules were integrated into EUT.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 RATING AND SYSTEM DETAILS

Table 2: Rating of EUT

General Information of EUT	Description
Kind of Equipment:	Amplimax Ultra
Type Designation:	EPRL30
FCC ID:	2AZC5-02
Type of Equipment:	End device
Antenna Type:	Integrated Antenna
Operating Voltage:	DC 24V via AC/DC power supply or PoE supply

Table 3: Technical Specification of EUT

Characteristic	Description
Operated Modes:	Bluetooth Classic Mode, Bluetooth Low Energy Wi-Fi 2.4GHz Band
Certified Transmitter Module:	Integrated module (FCC ID: 2AC7Z-ESP32MINII)
Operational Frequency Band(s):	2402 – 2480 MHz for Bluetooth 2412 – 2462 MHz for Wi-Fi
Max. RF output power (Conducted):	11.86 dBm for Bluetooth Classic Mode 16.52 dBm for Wi-Fi 2.4GHz band 7.98 dBm for Bluetooth Low Energy
Channel Number:	79 channels for Bluetooth Classic Mode 11 channels for Wi-Fi 2.4GHz band 802.11b/g/n(HT20) 7 channels for Wi-Fi 2.4GHz band 802.11n(HT40) 40 channels for Bluetooth Low Energy
Channel Bandwidth:	1MHz & 2 MHz for Bluetooth 20 MHz & 40 MHz for Wi-Fi 2.4GHz
Modulation Type:	GFSK, pi/4DQPSK, 8DPSK DSSS(DBPSK/DQPSK/CCK) OFDM(BPSK/QPSK/16QAM/64QAM)
Antenna Type:	Integrated Antenna, IPEX antenna
Antenna Gain:	2.33 dBi (declared by the manufacturer)

Operation mode:	Stand-alone
-----------------	-------------

Table 4: Operating Frequency Range for Bluetooth operation

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	2402.00	20	2422.00	40	2442.00	60	2462.00
1	2403.00	21	2423.00	41	2443.00	61	2463.00
2	2404.00	22	2424.00	42	2444.00	62	2464.00
3	2405.00	23	2425.00	43	2445.00	63	2465.00
4	2406.00	24	2426.00	44	2446.00	64	2466.00
5	2407.00	25	2427.00	45	2447.00	65	2467.00
6	2408.00	26	2428.00	46	2448.00	66	2468.00
7	2409.00	27	2429.00	47	2449.00	67	2469.00
8	2410.00	28	2430.00	48	2450.00	68	2470.00
9	2411.00	29	2431.00	49	2451.00	69	2471.00
10	2412.00	30	2432.00	50	2452.00	70	2472.00
11	2413.00	31	2433.00	51	2453.00	71	2473.00
12	2414.00	32	2434.00	52	2454.00	72	2474.00
13	2415.00	33	2435.00	53	2455.00	73	2475.00
14	2416.00	34	2436.00	54	2456.00	74	2476.00
15	2417.00	35	2437.00	55	2457.00	75	2477.00
16	2418.00	36	2438.00	56	2458.00	76	2478.00
17	2419.00	37	2439.00	57	2459.00	77	2479.00
18	2420.00	38	2440.00	58	2460.00	78	2480.00
19	2421.00	39	2441.00	59	2461.00		

Table 5: Operating Frequency Range for Wi-Fi operation

RF Channel	802.11 b/g/n(HT20)	802.11 n(HT40)
	Frequency (MHz)	Frequency (MHz)
01	2412	/
02	2417	/
03	2422	2422
04	2427	2427
05	2432	2432
06	2437	2437
07	2442	2442
08	2447	2447
09	2452	2452
10	2457	/
11	2462	/

3.3 INDEPENDENT OPERATION MODES

The basic operation modes are:

- A. On, Transmitting mode
 - 1) Bluetooth
 - i. Low channel
 - ii. Middle channel
 - iii. High channel
 - 2) Wi-Fi
 - i. Low channel
 - ii. Middle channel
 - iii. High channel
- B. On, normal data link established
- C. Standby/Idle
- D. Off

3.4 NOISE GENERATING AND NOISE SUPPRESSING PARTS

Refer to the Circuit Diagram.

3.5 SUBMITTED DOCUMENTS

- | | |
|---|--|
| ☒ User Manual | ☒ Rating Label |
| ☒ Circuit Diagram | ☒ PCB Layout |
| ☒ Block Diagram | ☒ Photo Document |
| ☒ Schematics | ☒ Parts List |
| ☐ Model Difference Letter | |

4. TEST SET-UP AND OPERATION MODES

4.1 PRINCIPLE OF CONFIGURATION SELECTION

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 TEST OPERATION AND TEST SOFTWARE

Test operation refers to test setup in chapter 5. All testing were performed according to the procedure in ANSI C63.10: 2013.

According to description in clause 3.1, only radiated spurious emissions was applied because the pre-certified module was integrated into the EUT.

The manufacturer declared that they has built in the pre-certified module according to the integration guides and has no modified either hardware and software provided by the grantee of module, hence the original test report accurately represent test results under the new conditions.

Below exhibits for uploaded original test reports represent this device in its entirety.

Wireless Technology	Test Item	Rule Part	Report No.
Wi-Fi	Conducted signal measurement	47 CFR Part 15 Subpart C Section 15.247	R2105A0435-R2
Bluetooth	Conducted signal measurement		R2105A0435-R1 R2105A0435-R2

4.3 SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT

Table 6: Auxiliary Equipment used during test

Name	Model	Manufacturer	S/N
Switching Power Supply	S024AMU2400100	TEN PAO INDUSTRIAL CO LTD.	N/A
PoE Adapter	Amplimax Ultra POE adapter	ELSYS	N/A

4.4 COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE

The test sample, which has been tested, contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

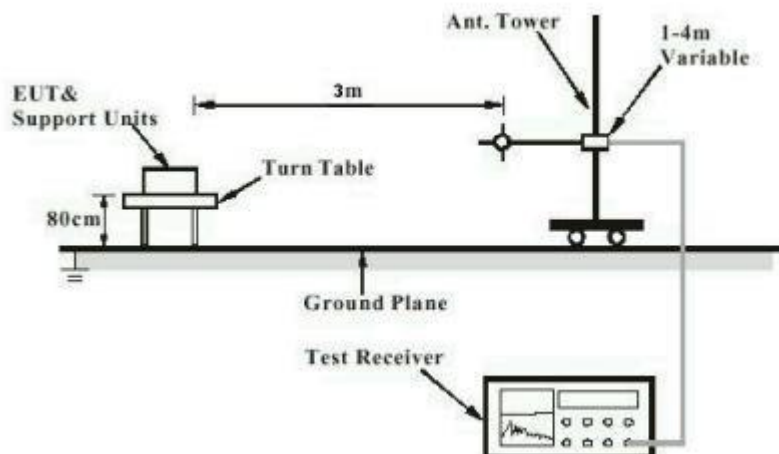
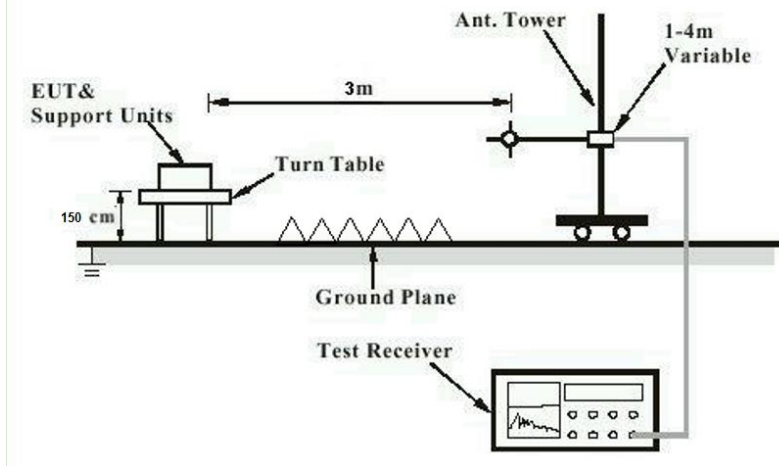


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)



5. TEST RESULTS

5.1 ESSENTIAL REQUIREMENTS OF STANDARD

5.1.1 RADIATED SPURIOUS EMISSIONS

RESULT: **Pass**

Test standard : 47 CFR Part 15 Subpart C Section 15.247
47 CFR Part 15 Subpart C Section 15.209

Limits : Refer to 15.209(c) of FCC Part 15.247(d)
Test procedure : ANSI C63.10:2013
Kind of test site : 3m Semi Anechoic Room

Test Setup

Date of testing : 2023-09-07 to 2024-01-31
Input voltage : DC 24V via AC/DC power supply
(AC 120V @ 60Hz via AC/DC power supply)
Test environment : ☒ Normal test conditions
☐ Extreme test conditions
Operation mode : A, B
Ambient temperature : Refer to test result
Relative humidity : Refer to test result
Atmospheric pressure : 101.0 kPa

Refer to attached Appendix for details of test results.

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5.1.2 Conducted Emission

RESULT:**Pass**

Test standard	:	47 CFR Part 15 Subpart C Section 15.207
Basic standard	:	ANSI C63.10:2013
Frequency range	:	0.15 – 30 MHz
Limits	:	47 CFR 15.207(a)
Test procedure	:	Clause 6.2 of ANSI C63.10:2013
Kind of test site	:	Shielding Room

Test Setup

Date of testing	:	2023-09-07 to 2024-01-31
Input voltage	:	DC 24V via AC/DC power supply (AC 120V @ 60Hz via AC/DC power supply)
Test environment	:	☒ Normal test conditions ☐ Extreme test conditions
Operation mode	:	B
Ambient temperature	:	Refer to test result
Relative humidity	:	Refer to test result
Atmospheric pressure	:	101.0 kPa

Refer to attached Appendix A for details of test results.

6. SYSTEM MEASUREMENT UNCERTAINTY

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

Table 7: System Measurement Uncertainty

Items		Extended Uncertainty
Radiated Spurious Emissions	Radiated emission below 1 GHz	±3.60 dB
	Radiated emission above 1 GHz	±4.60 dB
Conducted Emissions	9kHz to 150kHz	± 3.70 dB
	150kHz to 30MHz	± 3.30 dB
Remark: 95% Confidence Levels, k=2.		

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===== END OF REPORT =====

APPENDIX A: TEST RESULTS OF BLUETOOTH AND WI-FI OPERATION

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APPENDIX A.1: RADIATED SPURIOUS EMISSIONS	2
TRANSMITTING MODE	2
<i>Bluetooth operation mode</i>	<i>2</i>
Horizontal	2
Vertical	5
<i>Wi-Fi operation mode</i>	<i>8</i>
802.11b - Horizontal	8
802.11b - Vertical	11
802.11b Band edge	14
CO-LOCATION OPERATION MODE	17
<i>LTE Band 26 with Bluetooth</i>	<i>17</i>
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<i>Wi-Fi operation</i>	<i>29</i>
Live	29
Neutral	30

APPENDIX A.1: RADIATED SPURIOUS EMISSIONS

Note:

- 1) This testing was carried out on different operation mode, only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

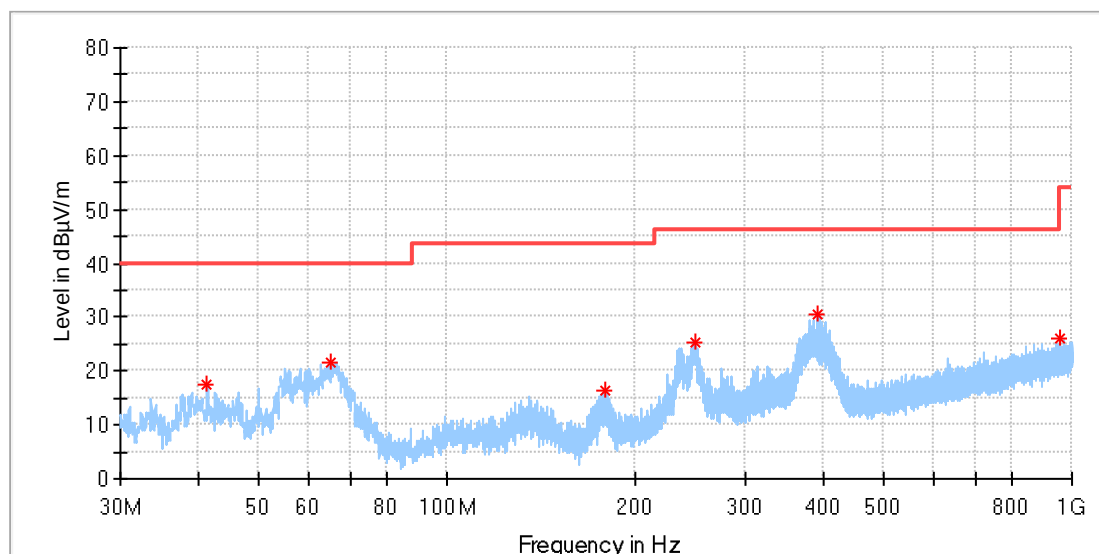
TRANSMITTING MODE

Bluetooth operation mode

Horizontal

EUT Information

EUT Name:	Amplimax Ultra
Model:	EPRL30
Test Mode:	Bluetooth transmitting
Order No/Sample No:	168428354/A003541536-003
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC Part 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

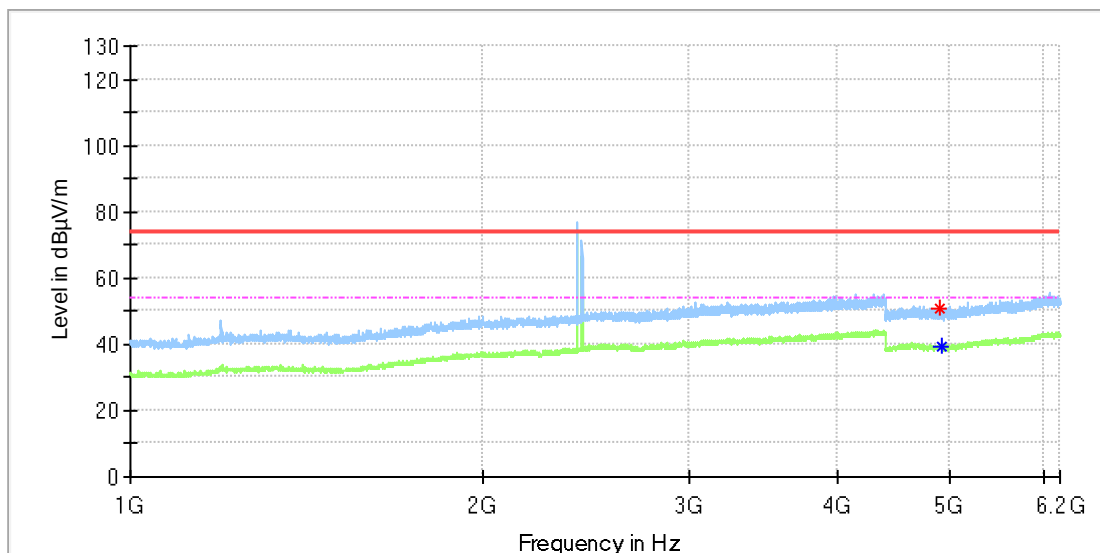


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
41.341539	17.51	40.00	22.49	100.0	H	30.0	-20.1
65.069231	21.42	40.00	18.58	100.0	H	38.0	-20.4
179.305385	16.42	43.50	27.08	100.0	H	38.0	-20.9
249.033462	25.47	46.00	20.53	100.0	H	347.0	-17.7
392.630769	30.58	46.00	15.42	100.0	H	120.0	-14.3
959.968846	26.06	46.00	19.94	100.0	H	274.0	-4.7

EUT Information

EUT Name:	Amplimax Ultra
Model:	EPRL30
Test Mode:	Bluetooth transmitting
Order No/Sample No:	168428354/A003541536-003
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC Part 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

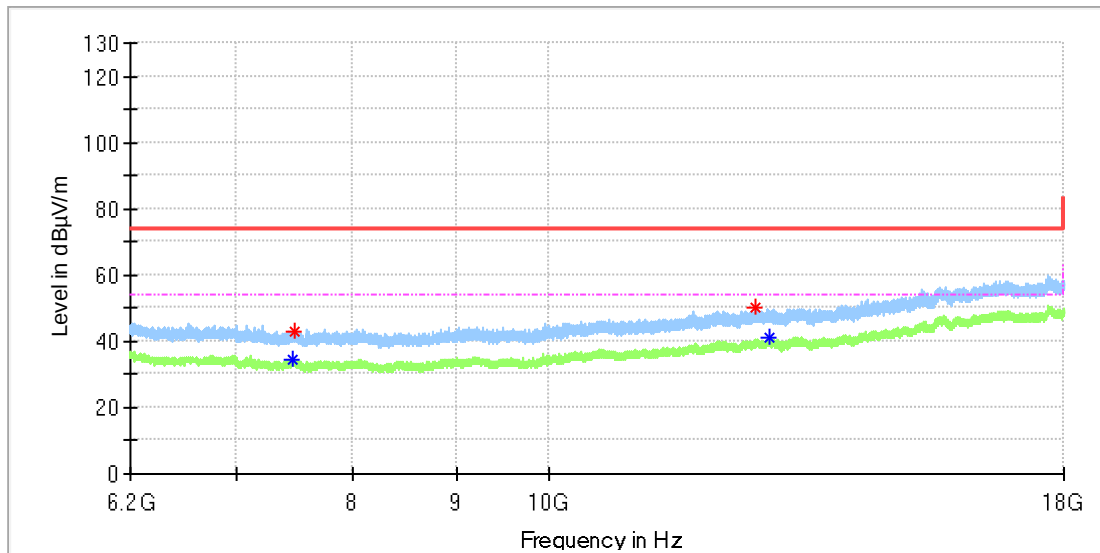


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4905.500000	50.81	---	74.00	23.19	150.	H	33.0
4916.500000	---	39.58	54.00	14.42	150.	H	293.0

EUT Information

EUT Name:	Amplimax Ultra
Model:	EPRL30
Test Mode:	Bluetooth transmitting
Order No/Sample No:	168428354/A003541536-003
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC Part 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



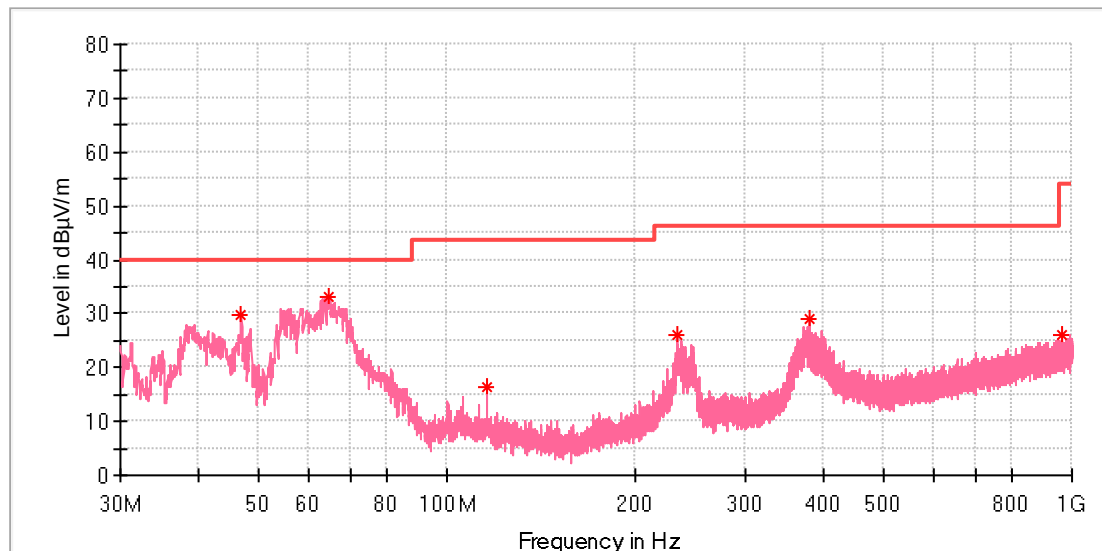
Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
7468.500000	---	34.66	54.00	19.34	150.	H	0.0
7470.466667	43.20	---	74.00	30.80	150.	H	35.0
12660.500000	50.03	---	74.00	23.97	150.	H	109.0
12867.983333	---	41.24	54.00	12.76	150.	H	207.0

Vertical

EUT Information

EUT Name:	Amplimax Ultra
Model:	EPRL30
Test Mode:	Bluetooth transmitting
Order No/Sample No:	168428354/A003541536-003
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC Part 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

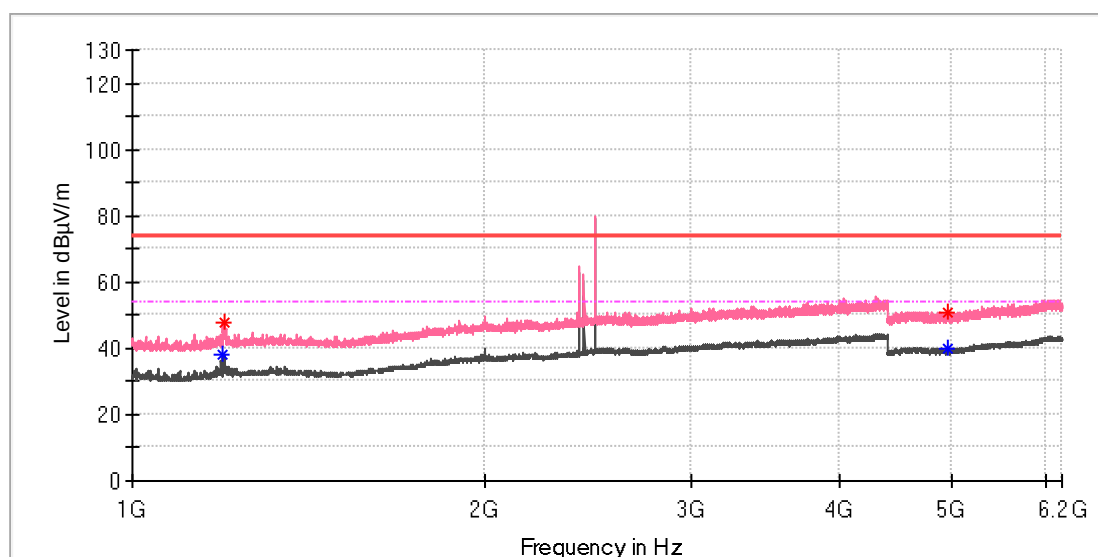


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
46.825769	29.94	40.00	10.06	100.0	V	125.0	-18.9
64.621539	33.11	40.00	6.89	100.0	V	67.0	-20.3
115.621154	16.25	43.50	27.25	100.0	V	148.0	-20.2
234.073077	25.94	46.00	20.06	100.0	V	252.0	-18.3
380.916154	28.86	46.00	17.14	100.0	V	355.0	-14.5
960.565769	25.88	54.00	28.12	100.0	V	320.0	-4.7

EUT Information

EUT Name:	Amplimax Ultra
Model:	EPRL30
Test Mode:	Bluetooth transmitting
Order No/Sample No:	168428354/A003541536-003
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC Part 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

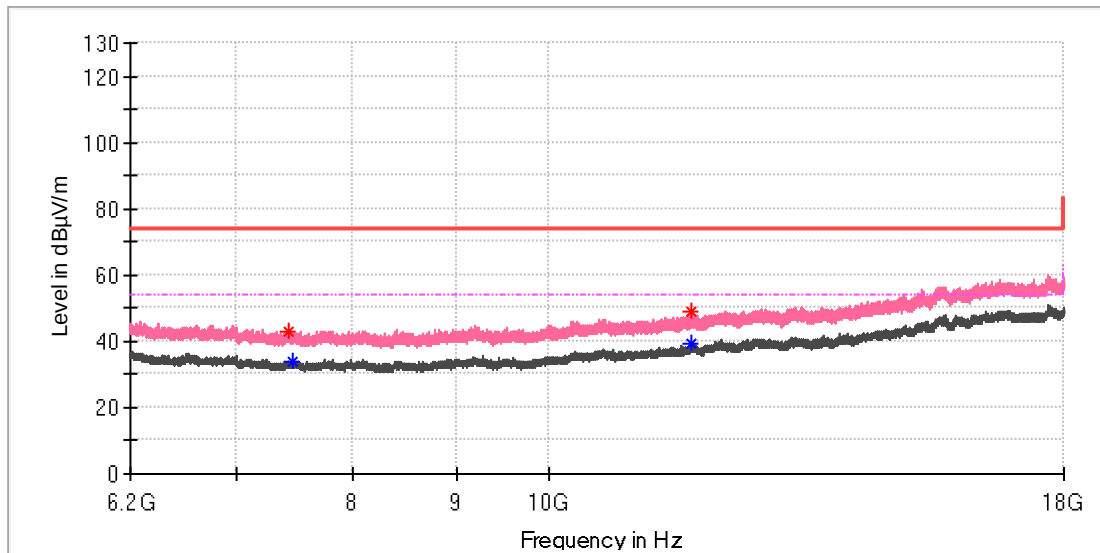


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1194.500000	---	38.19	54.00	15.81	150.0	V	248.0	1.1
1196.000000	47.75	---	74.00	26.25	150.0	V	277.0	1.1
4946.500000	---	39.88	54.00	14.12	150.0	V	282.0	11.8
4952.500000	50.63	---	74.00	23.37	150.0	V	123.0	11.8

EUT Information

EUT Name:	Amplimax Ultra
Model:	EPRL30
Test Mode:	Bluetooth transmitting
Order No/Sample No:	168428354/A003541536-003
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC Part 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



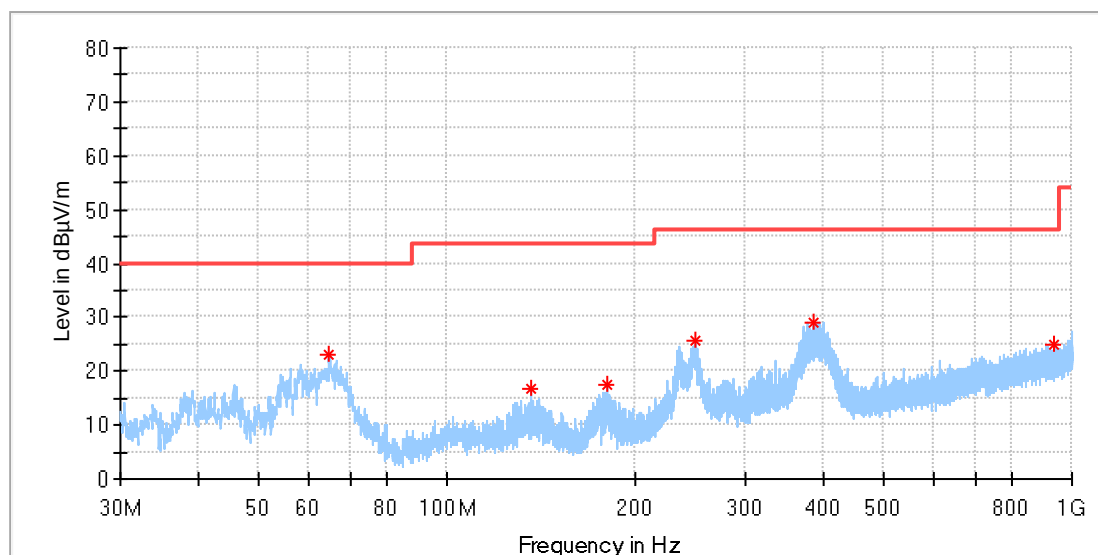
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7422.283333	43.14	---	74.00	30.86	150.0	V	348.0	8.4
7469.975000	---	34.00	54.00	20.00	150.0	V	85.0	8.6
11764.191667	---	39.32	54.00	14.68	150.0	V	241.0	13.4
11774.516667	48.80	---	74.00	25.20	150.0	V	324.0	13.4

Wi-Fi operation mode
802.11b - Horizontal

EUT Information

EUT Name:	Amplimax Ultra
Model:	EPRL30
Test Mode:	Wi-Fi transmitting, 11b mode, Low channel
Order No/Sample No:	168428354/A003541536-003
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC Part 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

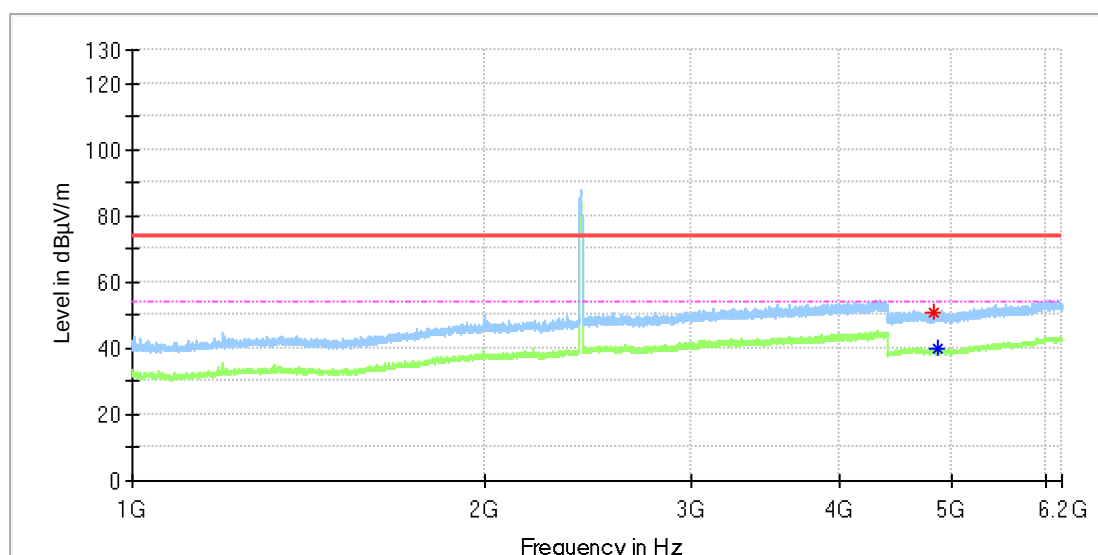


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
64.845385	23.23	40.00	16.77	100.0	H	45.0	-20.4
136.289615	16.92	43.50	26.58	100.0	H	286.0	-22.4
179.902308	17.48	43.50	26.02	100.0	H	37.0	-20.8
248.846923	25.50	46.00	20.50	100.0	H	329.0	-17.7
386.698846	29.20	46.00	16.80	100.0	H	312.0	-14.4
939.151154	24.78	46.00	21.22	100.0	H	294.0	-5.0

EUT Information

EUT Name:	Amplimax Ultra
Model:	EPRL30
Test Mode:	Wi-Fi transmitting, 11b mode, Low channel
Order No/Sample No:	168428354/A003541536-003
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC Part 24
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

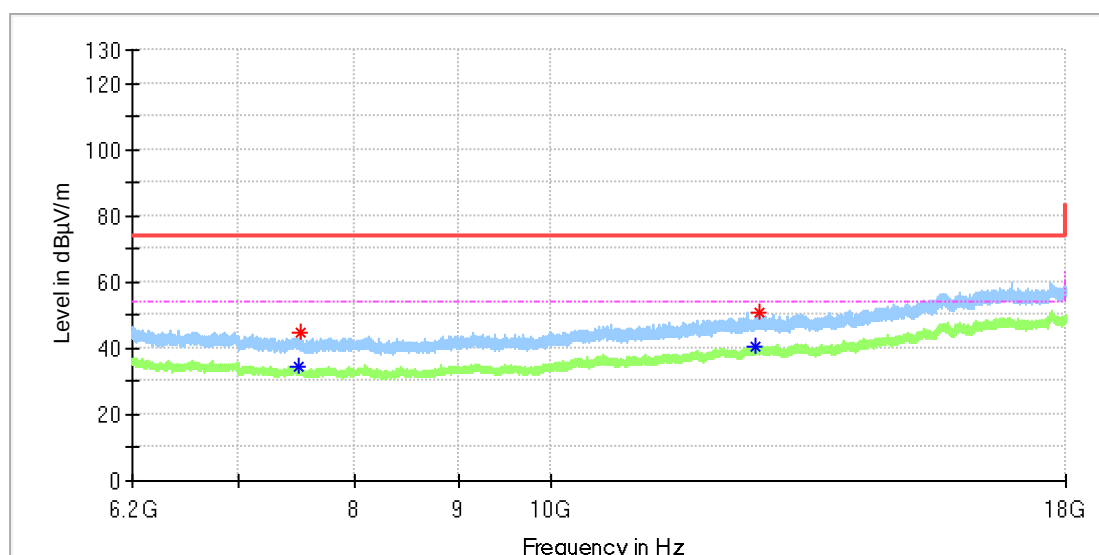


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4823.000000	50.64	---	74.00	23.36	150.0	H	307.0	11.8
4850.000000	---	39.65	54.00	14.35	150.0	H	142.0	11.8

EUT Information

EUT Name:	Amplimax Ultra
Model:	EPRL30
Test Mode:	Wi-Fi transmitting, 11b mode, Low channel
Order No./Sample No:	168428354/A003541536-003
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC Part 24
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



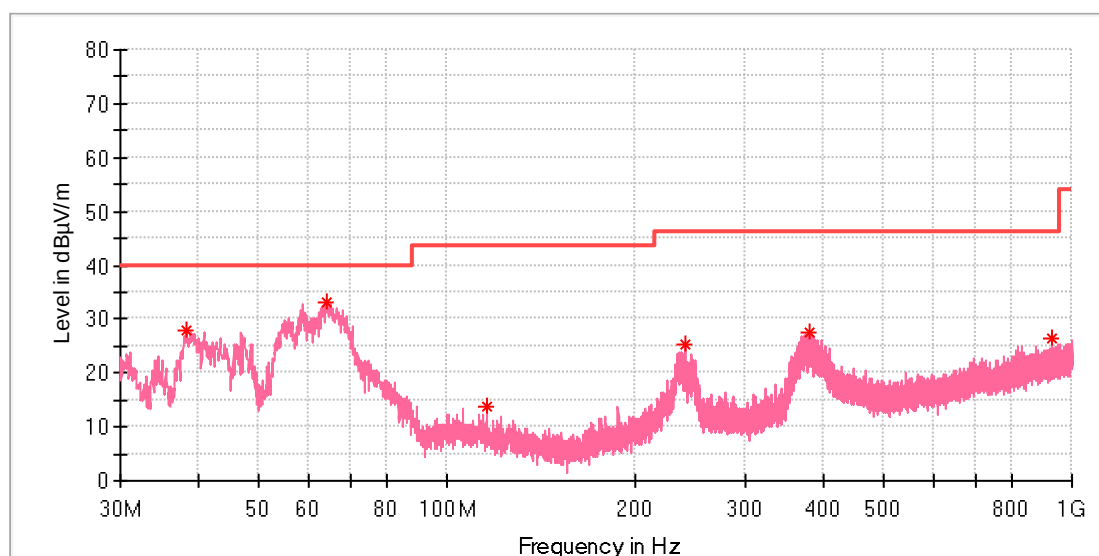
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7492.591667	---	34.75	54.00	19.25	150.0	H	266.0	8.7
7512.258333	44.65	---	74.00	29.35	150.0	H	279.0	8.7
12627.558333	---	40.61	54.00	13.39	150.0	H	103.0	14.9
12679.183333	50.68	---	74.00	23.32	150.0	H	20.0	15.1

802.11b - Vertical

EUT Information

EUT Name:	Amplimax Ultra
Model:	EPRL30
Test Mode:	Wi-Fi transmitting, 11b mode, Low channel
Order No/Sample No:	168428354/A003541536-003
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC Part 24
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

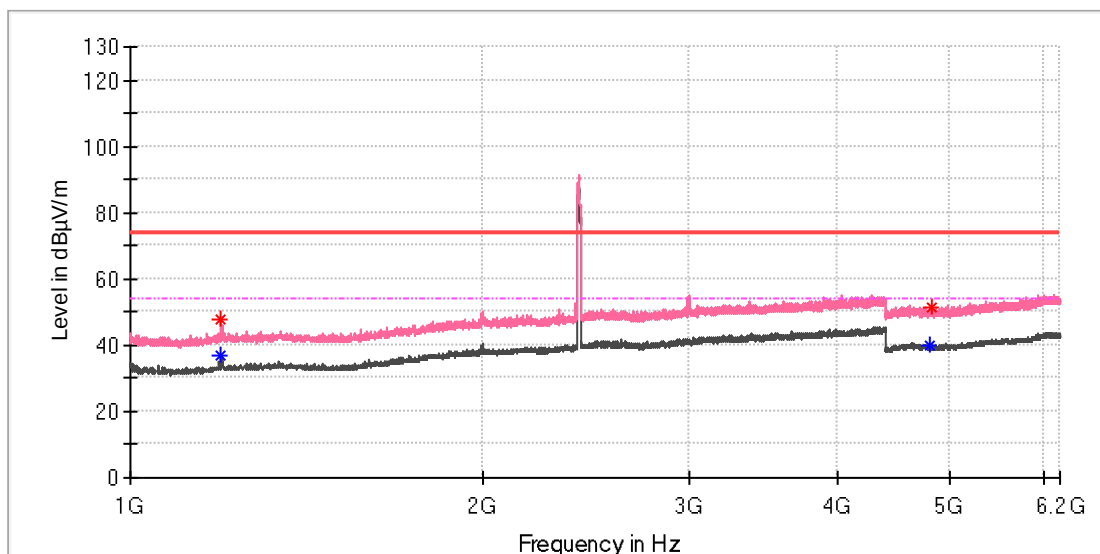


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
38.282308	27.75	40.00	12.25	100.0	V	0.0	-21.0
64.099231	33.16	40.00	6.84	100.0	V	53.0	-20.2
115.621154	13.78	43.50	29.72	100.0	V	100.0	-20.2
240.005000	25.26	46.00	20.74	100.0	V	254.0	-18.0
378.976154	27.63	46.00	18.37	100.0	V	339.0	-14.6
929.786923	26.26	46.00	19.74	100.0	V	180.0	-5.1

EUT Information

EUT Name:	Amplimax Ultra
Model:	EPRL30
Test Mode:	Wi-Fi transmitting, 11b mode, Low channel
Order No/Sample No:	168428354/A003541536-003
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC Part 24
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

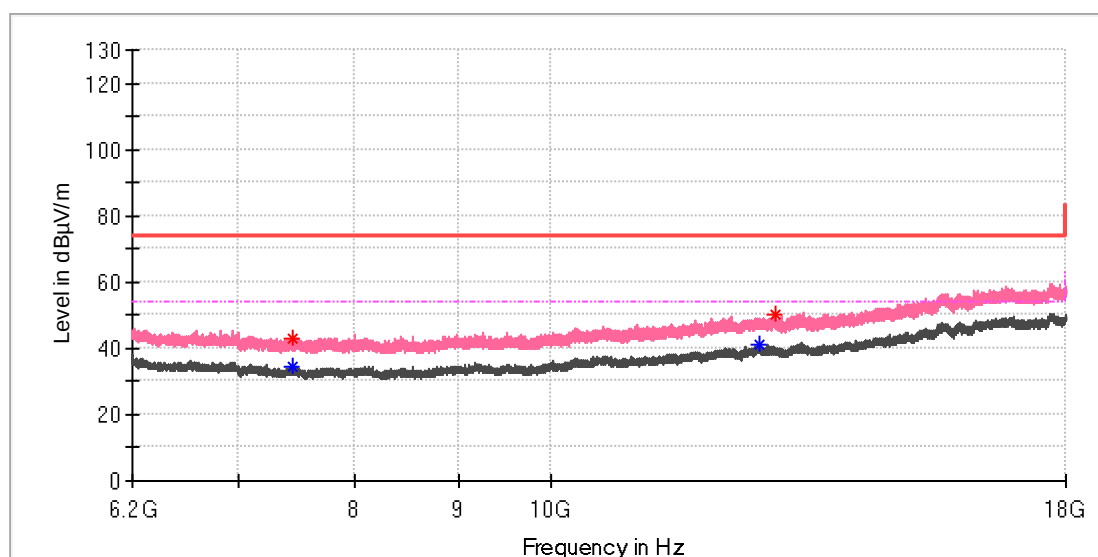


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1195.000000	47.79	---	74.00	26.21	150.0	V	98.0	1.1
1195.500000	---	36.79	54.00	17.21	150.0	V	321.0	1.1
4811.000000	---	40.13	54.00	13.87	150.0	V	293.0	11.8
4812.500000	51.28	---	74.00	22.72	150.0	V	300.0	11.8

EUT Information

EUT Name:	Amplimax Ultra
Model:	EPRL30
Test Mode:	Wi-Fi transmitting, 11b mode, Low channel
Order No/Sample No:	168428354/A003541536-003
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC Part 24
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



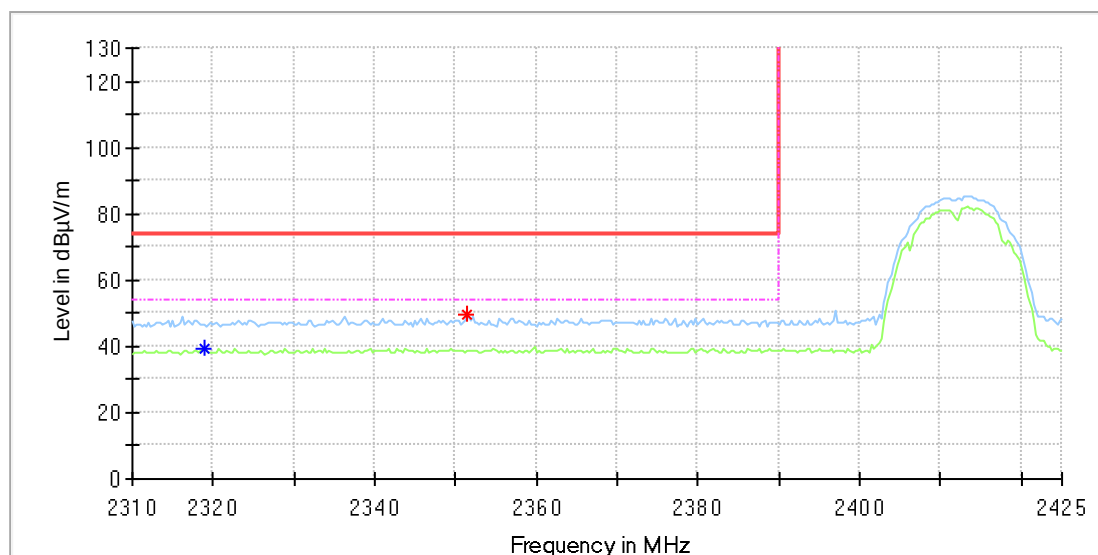
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7439.000000	---	34.36	54.00	19.64	150.0	V	59.0	8.4
7442.933333	42.89	---	74.00	31.11	150.0	V	83.0	8.4
12698.850000	---	41.29	54.00	12.71	150.0	V	238.0	15.1
12914.200000	50.06	---	74.00	23.94	150.0	V	35.0	15.5

802.11b Band edge

EUT Information

EUT Name:	Amplimax Ultra
Model:	EPRL30
Test Mode:	Wi-Fi transmitting, 11b mode, Low channel
Order No/Sample No:	168428354/A003541536-003
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

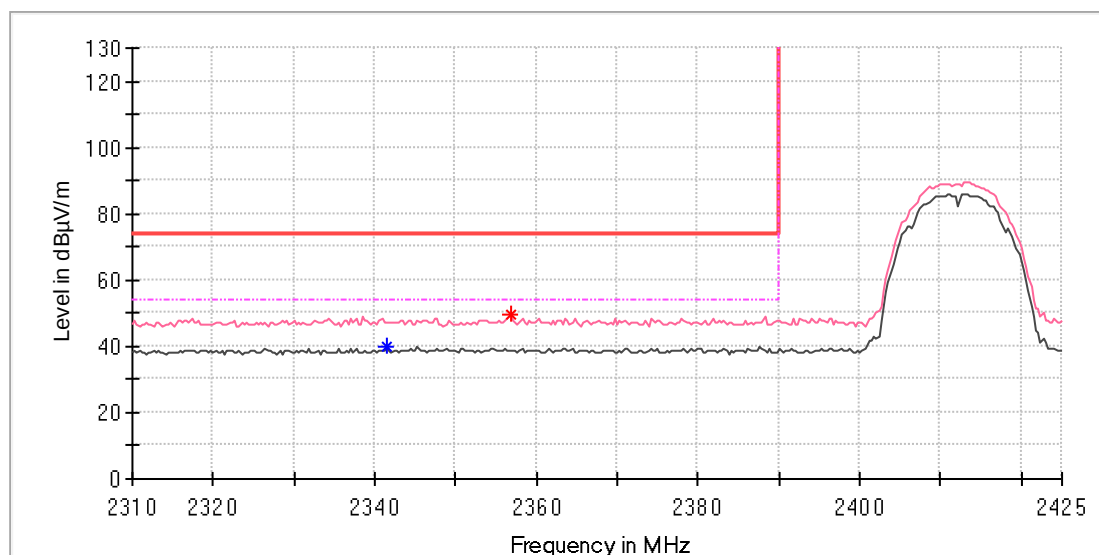


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2318.823529	---	39.50	54.00	14.50	150.0	H	0.0	6.6
2351.470588	49.35	---	74.00	24.65	150.0	H	174.0	6.9

EUT Information

EUT Name:	Amplimax Ultra
Model:	EPRL30
Test Mode:	Wi-Fi transmitting, 11b mode, Low channel
Order No/Sample No:	168428354/A003541536-003
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



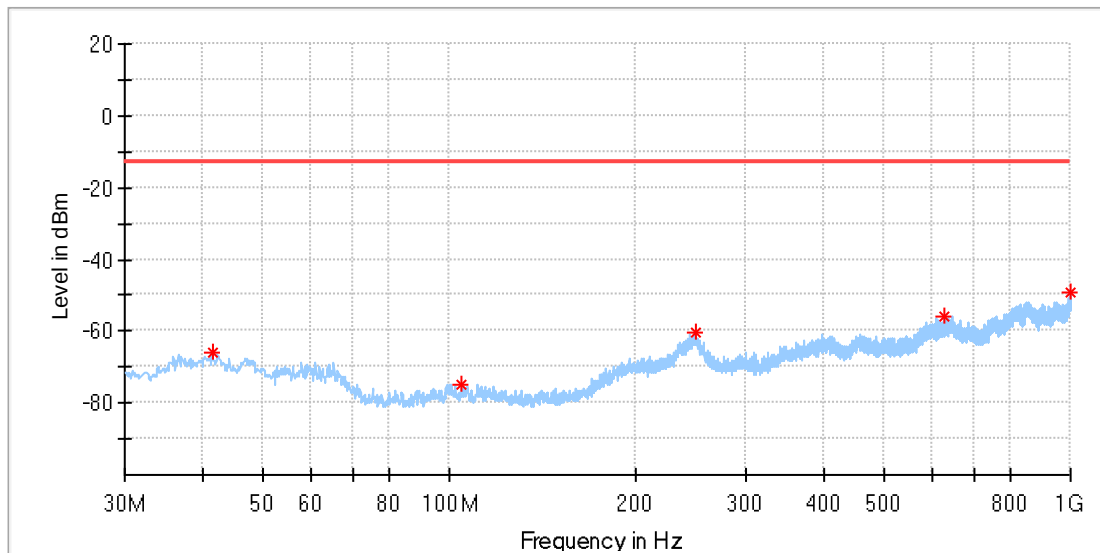
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2341.470588	---	39.87	54.00	14.13	150.0	V	16.0	6.8
2356.764706	49.51	---	74.00	24.49	150.0	V	238.0	6.9

CO-LOCATION OPERATION MODE
LTE Band 26 with Bluetooth

EUT Information

EUT Name:	Amplimax Ultra
Model:	EPRL30
Test Mode:	BT+LTE Band 26
Order No/Sample No:	168428354/A003541536-003
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

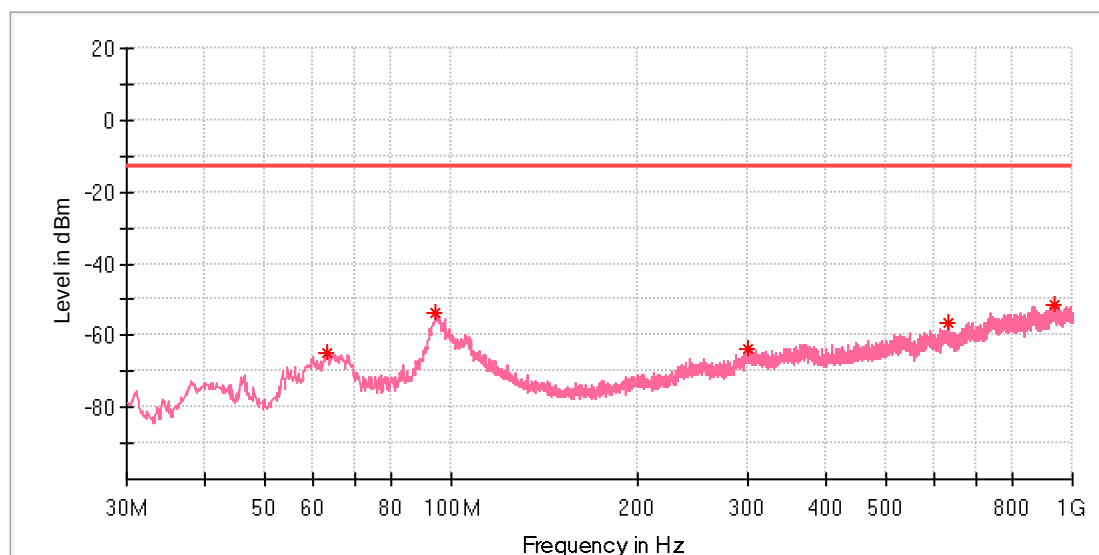


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
41.518750	-65.75	-13.00	52.75	100.0	H	168.0	-112.2
104.811250	-74.66	-13.00	61.66	100.0	H	321.0	-121.5
249.462500	-60.37	-13.00	47.37	100.0	H	210.0	-110.1
625.580000	-55.70	-13.00	42.70	100.0	H	238.0	-105.4
998.787500	-49.25	-13.00	36.25	100.0	H	214.0	-98.5

EUT Information

EUT Name:	Amplimax Ultra
Model:	EPRL30
Test Mode:	BT+LTE Band 26
Order No/Sample No:	168428354/A003541536-003
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

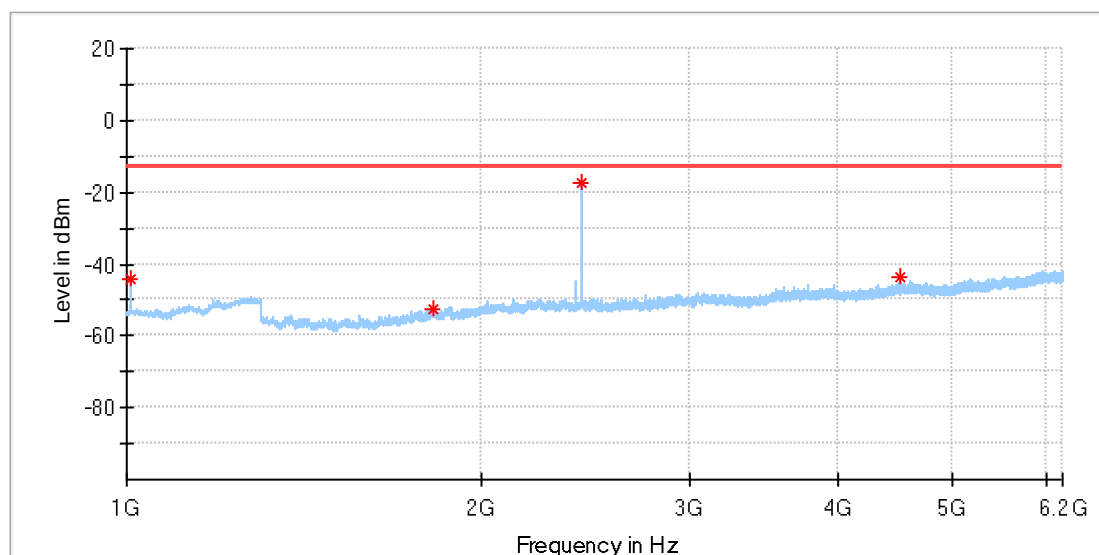


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
62.858750	-64.59	-13.00	51.59	100.0	V	64.0	-120.9
94.262500	-53.90	-13.00	40.90	100.0	V	342.0	-99.6
300.266250	-63.52	-13.00	50.52	100.0	V	172.0	-111.2
630.308750	-56.47	-13.00	43.47	100.0	V	270.0	-106.7
931.857500	-51.58	-13.00	38.58	100.0	V	172.0	-100.5

EUT Information

EUT Name:	Amplimax Ultra
Model:	EPRL30
Test Mode:	BT+LTE Band 26
Order No/Sample No:	168428354/A003541536-003
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin
Note:	The highest frequency which exceeds the limit is the fundament frequency of Bluetooth operation.

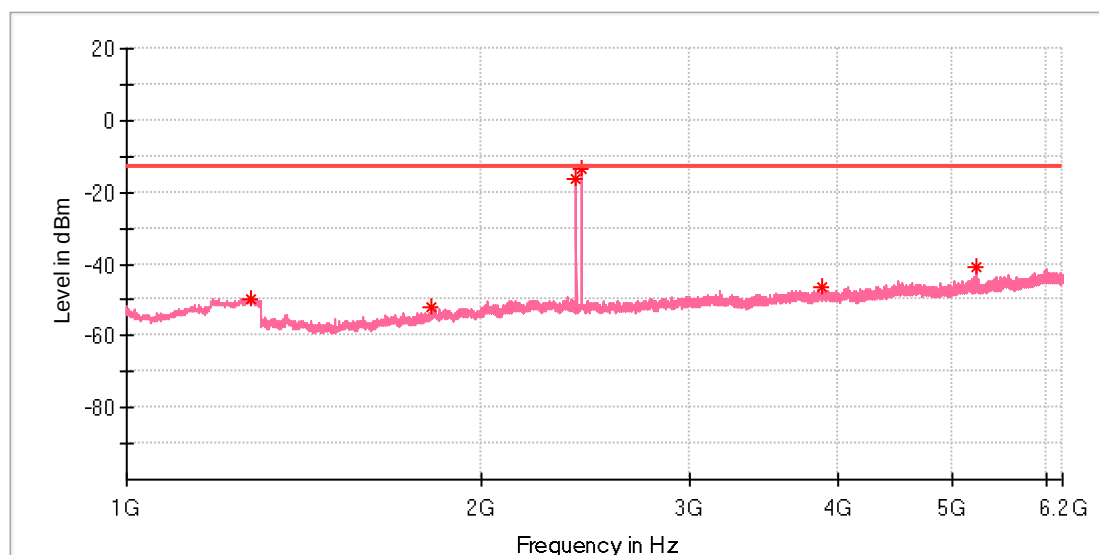


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1007.000000	-44.40	-13.00	31.40	150.0	H	77.0	-94.8
1815.500000	-52.61	-13.00	39.61	150.0	H	181.0	-90.1
2426.000000	-17.44	-13.00	4.44	150.0	H	214.0	-87.5
4524.000000	-43.51	-13.00	30.51	150.0	H	45.0	-83.6

EUT Information

EUT Name:	Amplimax Ultra
Model:	EPRL30
Test Mode:	BT+LTE Band 26
Order No/Sample No:	168428354/A003541536-003
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin
Note:	The highest frequency which exceeds the limit is the fundament frequency of Bluetooth operation.

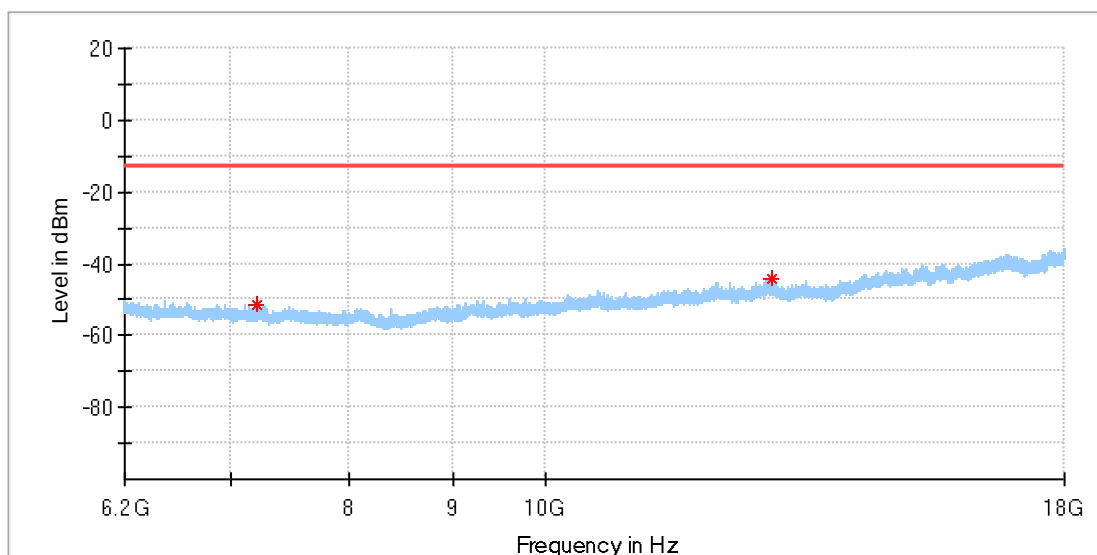


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1272.000000	-49.53	-13.00	36.53	150.0	V	83.0	-92.1
1814.000000	-51.90	-13.00	38.90	150.0	V	338.0	-90.0
2402.000000	-16.31	-13.00	3.31	150.0	V	74.0	-88.2
2425.500000	-13.76	-13.00	0.76	150.0	V	266.0	-87.9
3874.000000	-46.65	-13.00	33.65	150.0	V	0.0	-85.1
5234.000000	-40.81	-13.00	27.81	150.0	V	103.0	-83.1

EUT Information

EUT Name:	Amplimax Ultra
Model:	EPRL30
Test Mode:	BT+LTE Band 26
Order No/Sample No:	168428354/A003541536-003
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

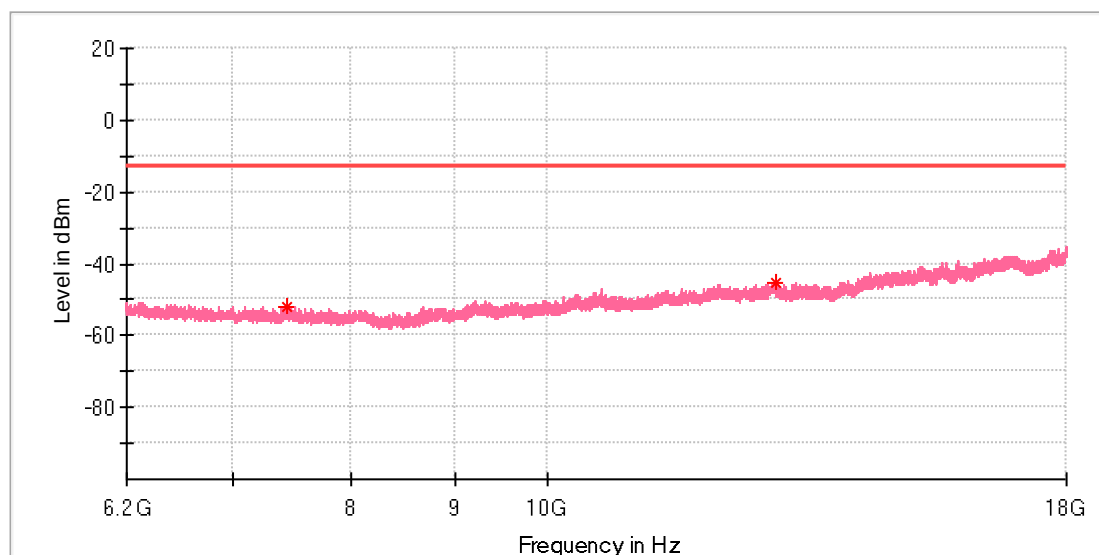


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
7201.033333	-51.29	-13.00	38.29	150.0	H	336.0	-86.4
12908.300000	-44.03	-13.00	31.03	150.0	H	182.0	-78.6

EUT Information

EUT Name:	Amplimax Ultra
Model:	EPRL30
Test Mode:	BT+LTE Band 26
Order No/Sample No:	168428354/A003541536-003
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



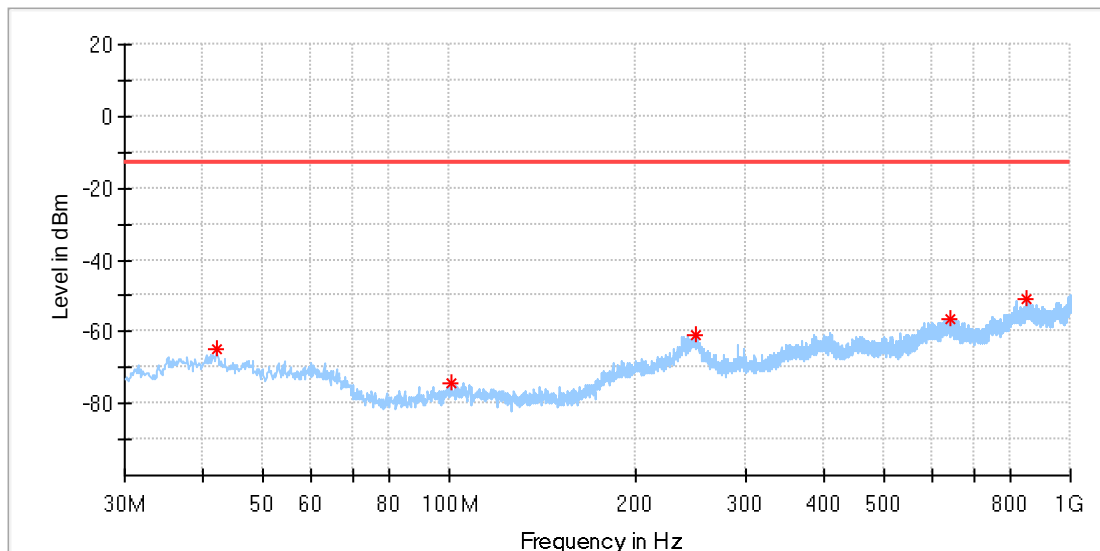
Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
7437.525000	-51.88	-13.00	38.88	150.0	V	106.0	-86.9
12942.716667	-45.15	-13.00	32.15	150.0	V	293.0	-78.5

NR Band n5 with Wi-Fi

EUT Information

EUT Name:	Amplimax Ultra
Model:	EPRL30
Test Mode:	WIFI 2.4G_+5G NR n5
Order No/Sample No:	168428354/A003541536-001
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

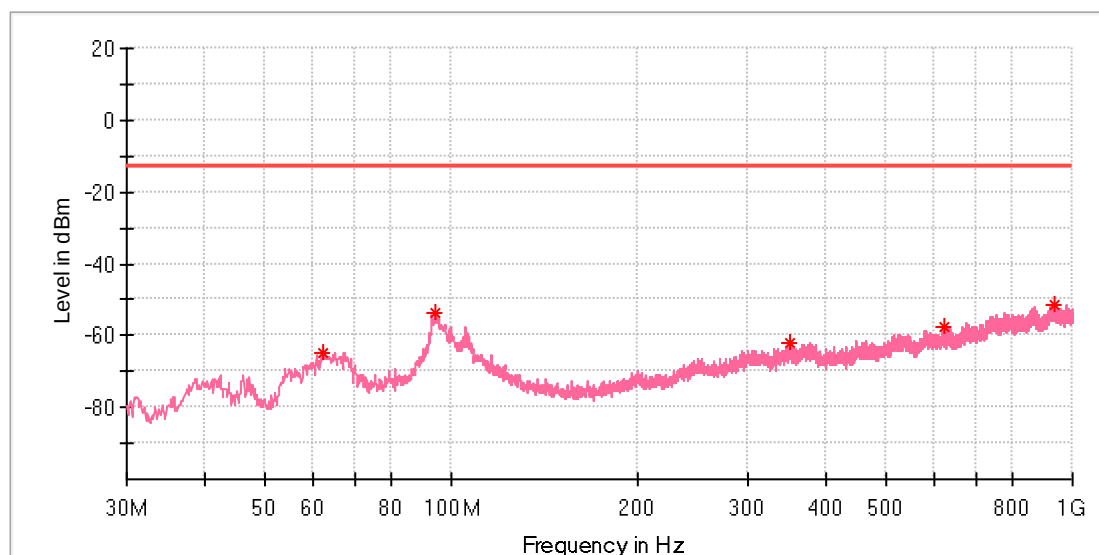


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
42.125000	-64.83	-13.00	51.83	100.0	H	62.0	-112.3
100.446250	-74.05	-13.00	61.05	100.0	H	87.0	-120.8
249.947500	-60.67	-13.00	47.67	100.0	H	0.0	-110.1
641.221250	-56.29	-13.00	43.29	100.0	H	173.0	-104.7
851.347500	-51.12	-13.00	38.12	100.0	H	293.0	-100.1

EUT Information

EUT Name:	Amplimax Ultra
Model:	EPRL30
Test Mode:	WIFI 2.4G_+5G NR n5
Order No/Sample No:	168428354/A003541536-001
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

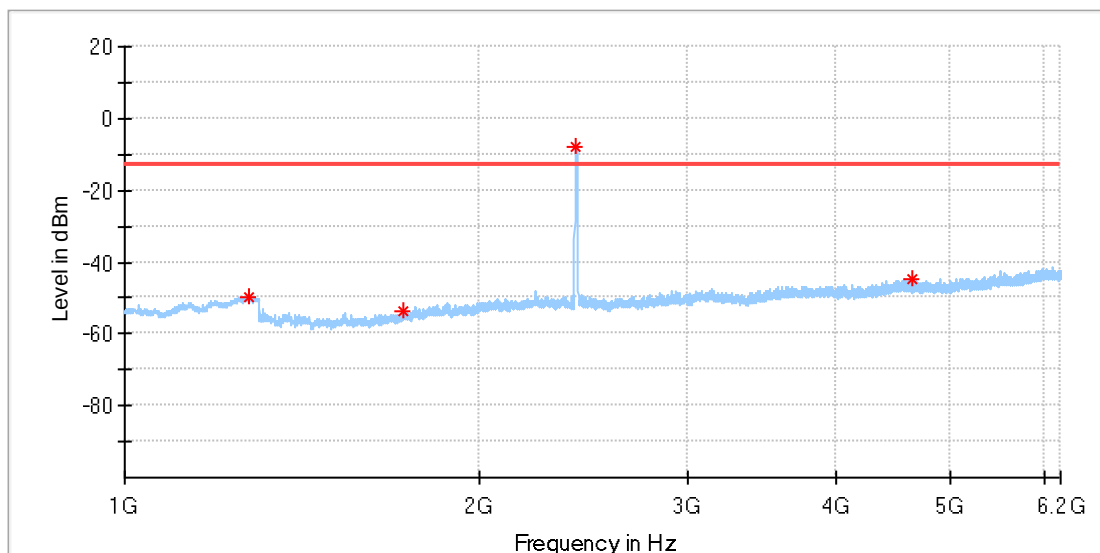


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
62.252500	-64.69	-13.00	51.69	100.0	V	43.0	-120.6
94.262500	-53.60	-13.00	40.60	100.0	V	332.0	-99.6
351.797500	-62.31	-13.00	49.31	100.0	V	279.0	-111.0
621.336250	-57.59	-13.00	44.59	100.0	V	164.0	-106.6
932.706250	-51.45	-13.00	38.45	100.0	V	218.0	-100.5

EUT Information

EUT Name:	Amplimax Ultra
Model:	EPRL30
Test Mode:	WIFI 2.4G_+5G NR n5
Order No/Sample No:	168428354/A003541536-001
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin
Note:	The highest frequency which exceeds the limit is the fundament frequency of Wi-Fi operation.

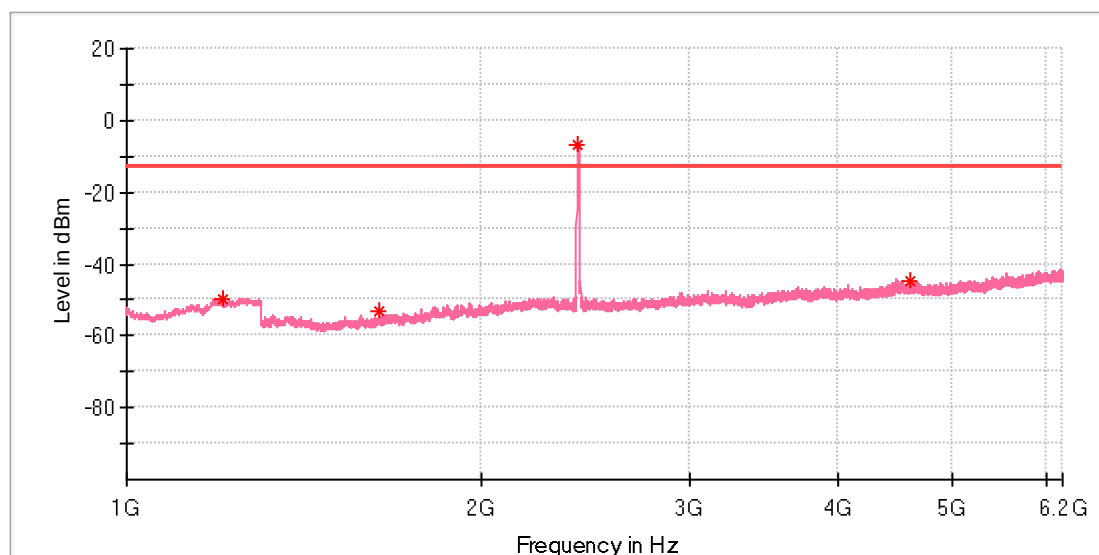


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1275.000000	-49.52	-13.00	36.52	150.0	H	4.0	-92.0
1724.000000	-53.41	-13.00	40.41	150.0	H	309.0	-91.6
2410.500000	-7.94	-13.00	-5.06	150.0	H	236.0	-87.7
4635.500000	-44.76	-13.00	31.76	150.0	H	177.0	-83.7

EUT Information

EUT Name:	Amplimax Ultra
Model:	EPRL30
Test Mode:	WIFI 2.4G_+5G NR n5
Order No/Sample No:	168428354/A003541536-001
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin
Note:	The highest frequency which exceeds the limit is the fundament frequency of Wi-Fi operation.

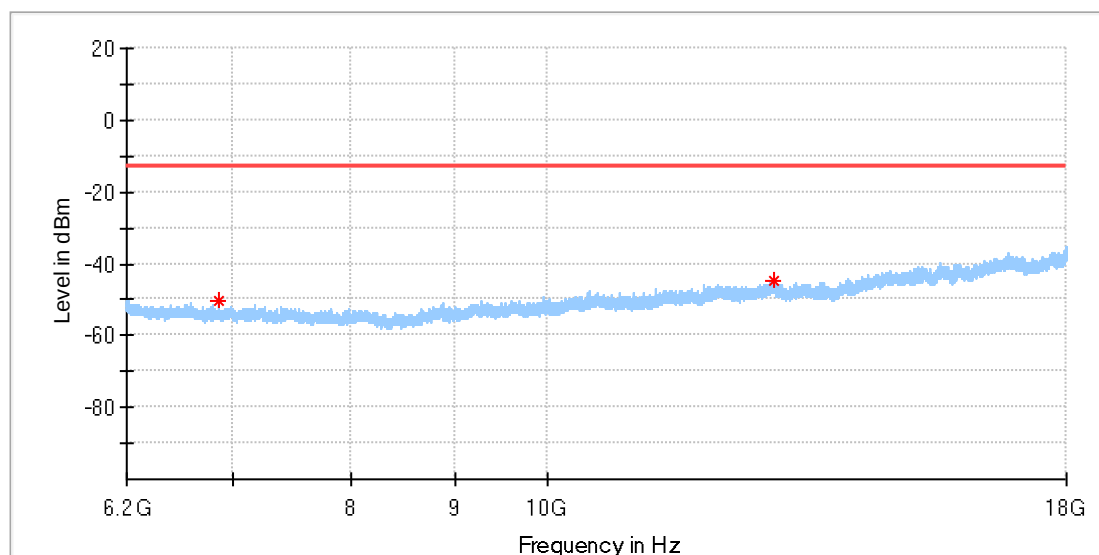


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1205.500000	-49.50	-13.00	36.50	150.0	V	220.0	-92.8
1636.000000	-53.02	-13.00	40.02	150.0	V	288.0	-92.5
2410.500000	-6.88	-13.00	-6.12	150.0	V	110.0	-88.1
4609.000000	-44.49	-13.00	31.49	150.0	V	152.0	-83.8

EUT Information

EUT Name:	Amplimax Ultra
Model:	EPRL30
Test Mode:	WIFI 2.4G_+5G NR n5
Order No/Sample No:	168428354/A003541536-001
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

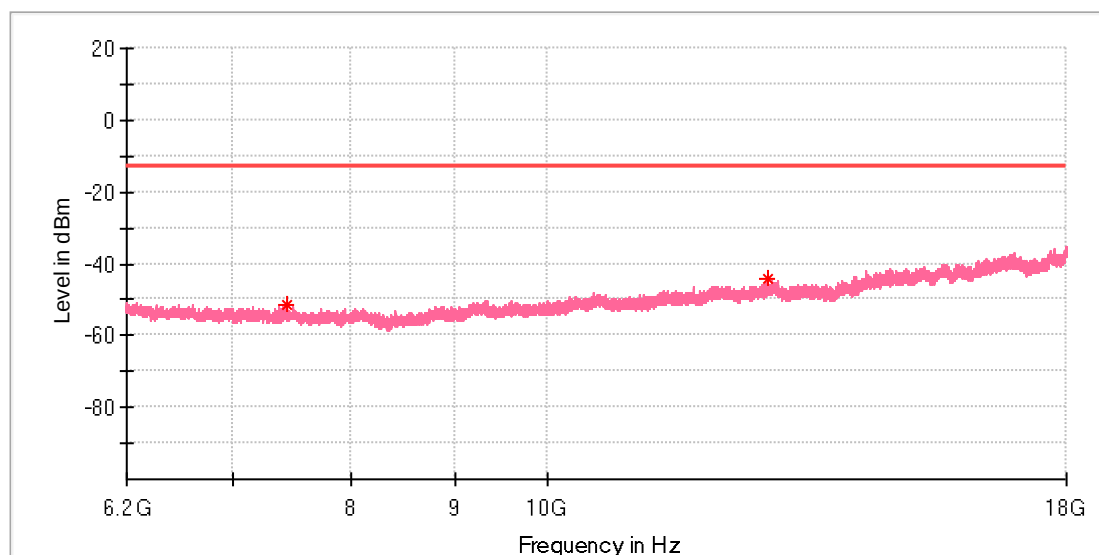


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
6879.975000	-50.28	-13.00	37.28	150.0	H	284.0	-87.6
12906.333333	-44.79	-13.00	31.79	150.0	H	237.0	-78.6

EUT Information

EUT Name:	Amplimax Ultra
Model:	EPRL30
Test Mode:	WIFI 2.4G_+5G NR n5
Order No/Sample No:	168428354/A003541536-001
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
7439.000000	-51.55	-13.00	38.55	150.0	V	118.0	-86.9
12841.433333	-43.95	-13.00	30.95	150.0	V	134.0	-79.1

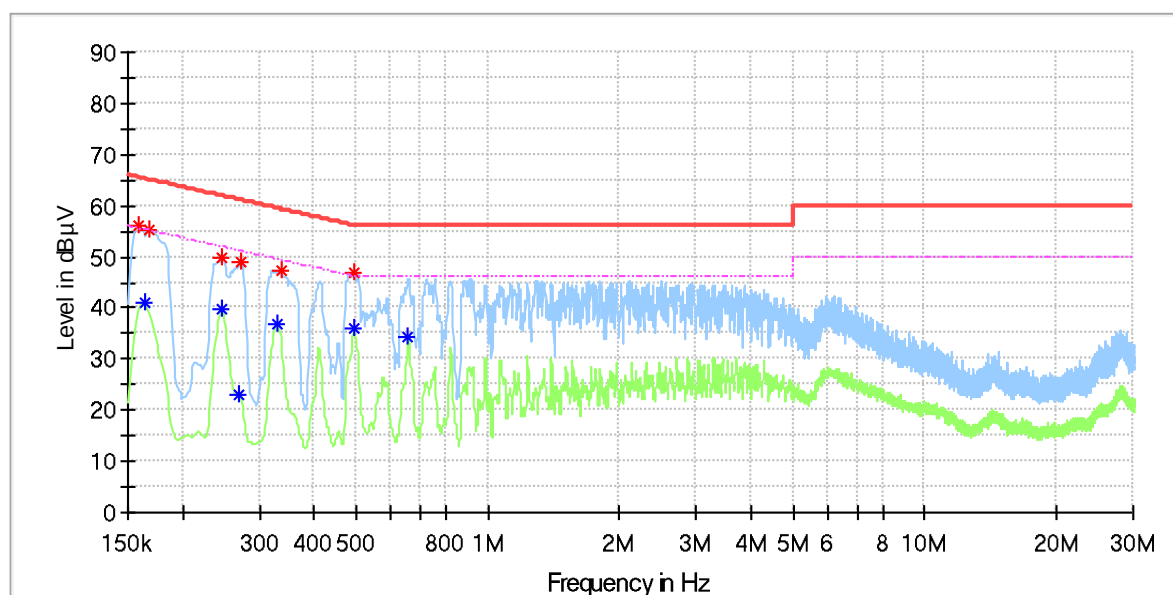
APPENDIX A.2: CONDUCTED EMISSIONS

Wi-Fi operation

Live

EUT Information

EUT Name	Amplimax Ultra
Order Number:	168428354
Model:	EPRL30
Test Mode:	B
Test Voltage:	AC 120V/60Hz
Test Standard:	FCC Part 15C
Test By:/Review By:	Eric Guo / Gary Chen
Tem./Hum./Pressure:	25.0°C/51.2%/101kPa
Remark:	SR1



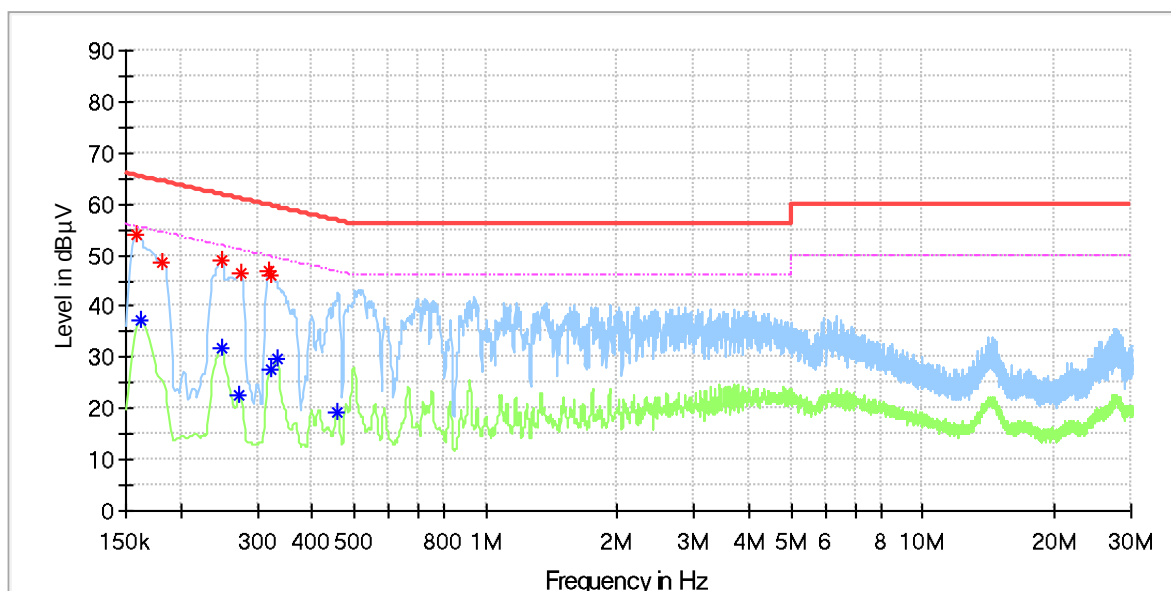
Critical Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.158292	56.07	---	65.55	9.49	L1	9.6
0.163267	---	41.11	55.30	14.19	L1	9.7
0.168242	55.44	---	65.05	9.61	L1	9.7
0.246183	49.76	---	61.89	12.13	L1	9.8
0.246183	---	39.58	51.89	12.30	L1	9.8
0.269400	---	23.22	51.14	27.91	L1	9.8
0.271058	48.83	---	61.09	12.25	L1	9.8
0.329100	---	37.01	49.47	12.46	L1	9.9
0.335733	47.47	---	59.31	11.84	L1	9.9
0.493275	---	35.87	46.11	10.24	L1	9.9
0.496592	46.79	---	56.06	9.26	L1	9.9
0.657450	---	34.31	46.00	11.69	L1	9.8

Neutral

EUT Information

EUT Name	Amplimax Ultra
Order Number:	168428354
Model:	EPRL30
Test Mode:	B
Test Voltage:	AC 120V/60Hz
Test Standard:	FCC Part 15C
Test By:/Review By:	Eric Guo / Gary Chen
Tem./Hum./Pressure:	25.0°C/51.2%/101kPa
Remark:	SR1



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.158292	54.13	---	65.55	11.42	N	9.8
0.161608	---	37.46	55.38	17.92	N	9.8
0.181508	48.74	---	64.42	15.68	N	9.7
0.247842	48.95	---	61.83	12.88	N	9.7
0.247842	---	31.63	51.83	20.20	N	9.7
0.272717	---	22.72	51.04	28.32	N	9.7
0.274375	46.32	---	60.98	14.66	N	9.7
0.317492	46.91	---	59.77	12.87	N	9.7
0.320808	---	27.64	49.69	22.04	N	9.7
0.324125	46.17	---	59.60	13.43	N	9.7
0.332417	---	29.73	49.39	19.66	N	9.7
0.456792	---	19.35	46.75	27.40	N	9.7

===== END OF APPENDIX =====