

Prüfbericht-Nr.: <i>Test report no.:</i>	CN21H74P 001	Auftrags-Nr.: <i>Order no.:</i>	168325940	Seite 1 von 23 <i>Page 1 of 23</i>
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2021-07-06	
Auftraggeber: <i>Client:</i>	Dongguan LIFAair Technology Limited 2nd floor in the 6th district plant, No. 2 East Industrial Road, Songshan Lake High-Tech Industrial Development Zone, Dongguan, 523808, Guangdong, P. R. China			
Prüfgegenstand: <i>Test item:</i>	Smart Air Purifier			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	LA350, LA352, LA352C, LA352T, LA333, LA333T, LA330V, LA330VC, LA330VT, LA313V, LA313VT, LA500, LA502, LA502C, LA502T, LA503, LA500V, LA500VC, LA500VT, LA503V, LA503VT (Trademark: LIFAair)			
Auftrags-Inhalt: <i>Order content:</i>	FCC and IC approval			
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart C Section 15.209 CFR47 FCC Part 2.1093 RSS-247 Issue 2 February 2017 RSS-Gen Issue 5 February 2021 RSS-102 Issue 5 February 2021			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2021-07-09	Please refer to photo documents		
Prüfmuster-Nr.: <i>Test sample no.:</i>	A003088725-003,006,010			
Prüfzeitraum: <i>Testing period:</i>	2021-07-09 – 2021-07-27			
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>	genehmigt von: <i>authorized by:</i>			
Datum: <i>Date:</i> 2021-08-16	Ausstellungsdatum: <i>Issue date:</i> 2021-08-16			
	Signed by: Alex Lan		Signed by: Lin Lin	
Stellung / Position	Senior Project Engineer	Stellung / Position	Reviewer	
Sonstiges / Other: FCC ID: 2A2LR-LF03 IC: 27494-LF03 HVIN: LA503				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged:</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specifications(s) F(ail) = failed a.m. test specifications(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>				

Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER

RESULT: Pass

5.1.3 CONDUCTED POWER SPECTRAL DENSITY

RESULT: Pass

5.1.4 99%dB BANDWIDTH

RESULT: Pass

5.1.5 6dB BANDWIDTH

RESULT: Pass

5.1.6 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHz BANDWIDTH

RESULT: Pass

5.1.7 RADIATED SPURIOUS EMISSION

RESULT: Pass

5.1.8 CONDUCTED EMISSION ON AC MAINS

RESULT: Pass

6.1.1 ELECTROMAGNETIC FIELDS

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: Photographs of the Test Set-up

Appendix B: Test Results of Conducted & Radiated Testing

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

No. 362 Huanguan Road Middle, Longhua District, Shenzhen 518110, People's Republic of China

FCC Registration No.: 694916

IC Registration No.: 25069

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radio Spectrum Testing				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
Wireless Connectivity Tester	R&S	CMW270	101375	10.08.2021
Signal Analyzer	R&S	FSV 40	101441	10.08.2021
Vector Signal Generator	R&S	SMBV100A	263301	10.08.2021
Signal Generator	R&S	SMB100A	115186	10.08.2021
OSP	R&S	OSP 150	101017	10.12.2021
Control PC	DELL	OptiPlex 7050	FTJZ9P2	N/A
Test Software	R&S	WMS32 (V11.00.00)	N/A	N/A
Power Meter	R&S	NRP2	107105	10.12.2021
Power Sensor	R&S	NRP-Z81	105677	10.09.2021
Shielding Room 8#	Albatross	SR8	APC17151-SR8	22.06.2024
Unwanted Emission Testing				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
EMI Test Receiver	R&S	ESR 7	102021	11.08.2021
Signal Analyzer	R&S	FSV 40	101439	10.08.2021
System Controller Interface	R&S	SCI-100	S10010038	N/A
Filterbank	R&S	Wlan	100759	10.08.2021
OSP	R&S	OSP 120	102040	N/A
Pre-amplifier	R&S	SCU08F1	08320031	10.08.2021
Amplifier	R&S	SCU-18F	180070	10.08.2021
Amplifier	R&S	SCU40A	100475	10.09.2021
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	08.08.2022
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	08.08.2022
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	08.08.2022
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	13.09.2022
Wideband Ridged Horn Antenna (12-18 GHz)	Steatite	QMS-00208	18313	02.09.2021
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	06.22.2024
Conducted Emissions testing				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
EMI Test Receiver	R&S	ESR3	102428	16.08.2021
Artificial Mains Network	R&S	ENV216	102333	16.08.2021
EMC32 test software	R&S	EMC32(Ver.10.50.01)	N/A	N/A

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 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.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

Item		Extended Uncertainty
Conducted Emission		± 2.74 dB
Radiated Emission (30-1000MHz)	Field strength (dBμV/m)	4.27dB
Radiated Emission (above 1000MHz)	Field strength (dBμV/m)	4.46dB
Radio Spectrum		± 1.5 dB

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B 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. Test facility located at No. 362 Huanguan Road Middle, Longhua District, Shenzhen 518110, People's Republic of China. is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The EUTs are smart air purifier for household or similar used, they operate at 2.4GHz ISM frequency band. they support Bluetooth Low Energy wireless technology.

Models in each row are identical respectively, except model name and differences as below:

The model difference as below:

Model	Rating	Size	Motor	Electric circuit	Filter elements	Remark
LA350, LA352, LA352C, LA352T, LA333, LA333T	DC 24V 45W	High: 505mm; Diameter: 250mm;	Same	Same	Carbon barrels and Filter element	Their main units are the same, only different on inner filtering parts.
LA330V, LA330VC, LA330VT, LA313V, LA313VT	DC 24V 45W				Filter element	
LA500, LA502, LA502C, LA502T, LA503	DC 24V 60W	High: 800mm; Diameter: 300mm;			Carbon barrels and Filter element	Their main units are the same, only different on inner filtering parts.
LA500V, LA500VC, LA500VT, LA503V, LA503VT	DC 24V 60W				Filter element	

For details refer to the User Manual and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment	Smart Air Purifier
Type Designation	LA350, LA352, LA352C, LA352T, LA333, LA333T, LA330V, LA330VC, LA330VT, LA313V, LA313VT, LA500, LA502, LA502C, LA502T, LA503, LA500V, LA500VC, LA500VT, LA503V, LA503VT
Trade Mark	LIFAir
FCC ID	2A2LR-LF03
IC	27494-LF03
HVIN	LA503
Operating Voltage	DC 24V (via marketed AC/DC adapter)
Adapter information	Model: ADT-60240 C Input: 100-240VAC, 50/60Hz, 1.5A Output: DC 24V, 2.6A

Technical Specification of Bluetooth Low Energy	
Operating Frequency	2402 – 2480 MHz
Bluetooth Core Version	Bluetooth 4.2, single mode
Data rate	1Mbps
Channel Number	40 channels
Channel separation	2MHz
Modulation	GFSK
Antenna Type	Integral Antenna
Number of Antenna	1
Antenna Gain	1.5 dBi

Table 3: RF Channel and Frequency of Bluetooth Low Energy

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
00	2402.00	10	2422.00	20	2442.00	30	2462.00
01	2404.00	11	2424.00	21	2444.00	31	2464.00
02	2406.00	12	2426.00	22	2446.00	32	2466.00
03	2408.00	13	2428.00	23	2448.00	33	2468.00
04	2410.00	14	2430.00	24	2450.00	34	2470.00
05	2412.00	15	2432.00	25	2452.00	35	2472.00
06	2414.00	16	2434.00	26	2454.00	36	2474.00
07	2416.00	17	2436.00	27	2456.00	37	2476.00
08	2418.00	18	2438.00	28	2458.00	38	2478.00
09	2420.00	19	2440.00	29	2460.00	39	2480.00

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, transmitting mode
 - 1. Low channel
 - 2. Middle channel
 - 3. High channel
- B. On, Operating
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- | | |
|----------------------------------|------------------|
| - Application Form | - Photo Document |
| - Block Diagram | - Schematics |
| - FCC/IC Label and Location Info | - User Manual |
| - Operation Description | |

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 procedures in ANSI C63.10: 2013.

According to clause 3.1, all test were applied on model LA503 and additional test (Radiated Spurious Emissions and AC main conducted emission) were applied on model LA333.

4.3 Special Accessories and Auxiliary Equipment

Table 4: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N
Notebook	Lenovo	ThinkPad X260	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 Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 30MHz)

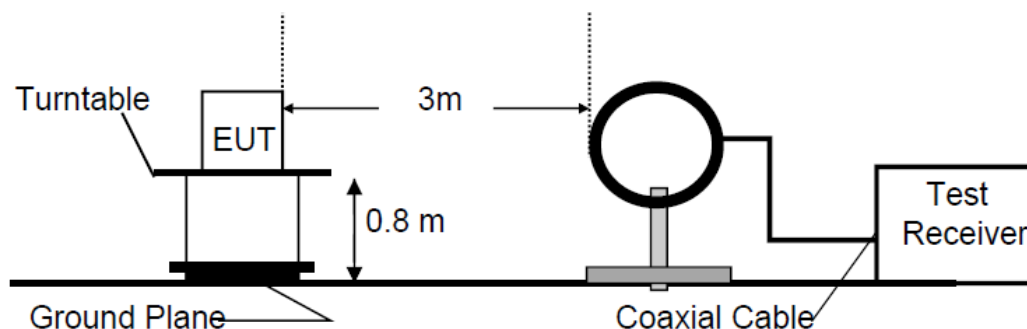


Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

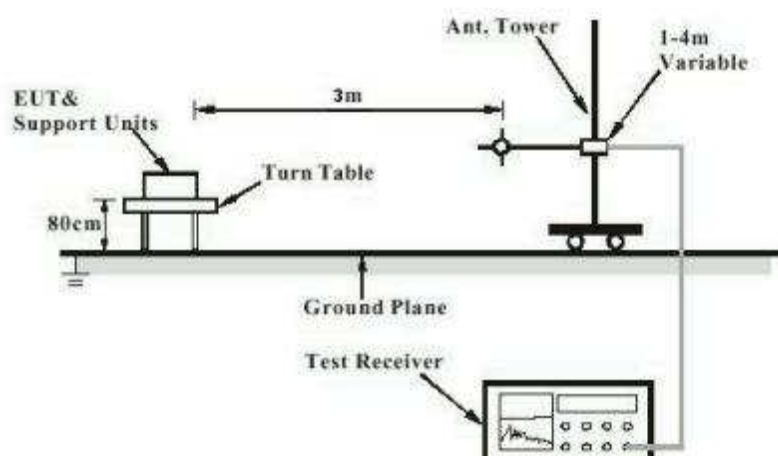


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

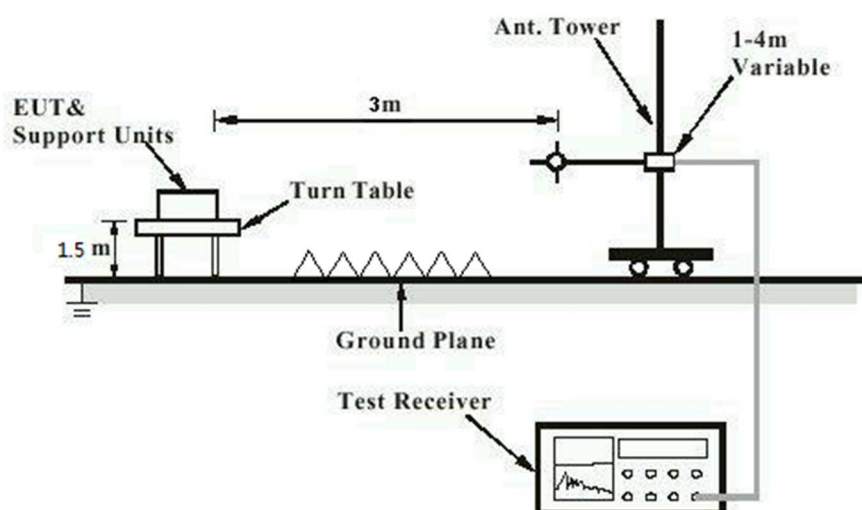


Diagram of Measurement Configuration for Mains Conduction Measurement

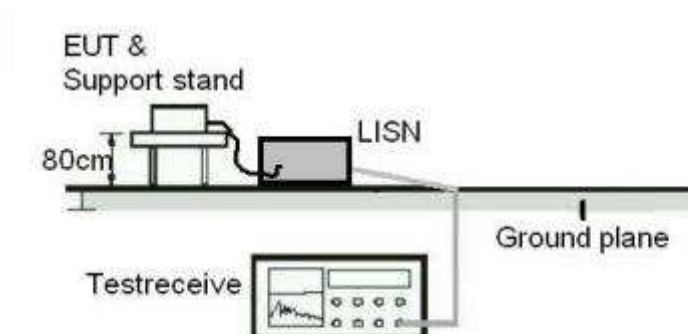
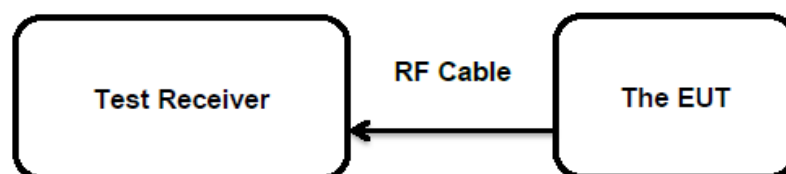


Diagram of Measurement Configuration for Conducted Transmitter Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:**Pass****Test Specification**

Test standard	:	FCC Part 15.247(b)(4) and Part 15.203
	:	RSS-Gen Clause 6.7
Limit	:	the use of antennas with directional gains that do not exceed 6 dBi

According to the manufacturer declared, the EUT has an Integral antenna, the directional gain of antenna is 1.5 dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

5.1.2 Maximum Peak Conducted Output Power

RESULT:
Pass
Test Specification

Test standard	:	FCC Part 15.247(b)(3)
	:	RSS-247 Clause 5.4(d)
Basic standard	:	ANSI C63.10: 2013
Limits	:	< 1 Watt (Maximum Conducted Peak Power)
	:	e.i.r.p. <4W
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2021-07-22
Input voltage	:	DC 24V
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	24.8 °C
Relative humidity	:	53 %
Atmospheric pressure	:	101 kPa

For details refer to following test result.

Table 5: Test Result of Maximum Peak Conducted Output Power, 1Mbps

Channel	Channel Frequency (MHz)	Peak Output Power		Limit
		(dBm)	(W)	(W)
Low Channel	2402	-2.8	0.00052	1
Middle Channel	2440	-1.8	0.00066	1
High Channel	2480	-1.0	0.00079	1

Note: The cable loss is taken into account in results and the e.i.r.p. is 0.5 dBm less than 4W (36 dBm).

5.1.3 Conducted Power Spectral Density

RESULT:**Pass****Test Specification**

Test standard	:	FCC Part 15.247(e)
	:	RSS-247 Clause 5.2(b)
Basic standard	:	ANSI C63.10: 2013
Limits	:	8 dBm / 3kHz
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2021-07-22
Input voltage	:	DC 24V
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	24.8 °C
Relative humidity	:	53 %
Atmospheric pressure	:	101 kPa

For details refer to following test result.

Table 6: Test Result of Power Spectral Density, 1Mbps

Channel	Channel Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
Low Channel	2402	-18.80	8
Middle Channel	2440	-18.76	8
High Channel	2480	-15.98	8

Note: The cable loss is taken into account in results.

For the measurement records, refer to the appendix B.

5.1.4 99%dB Bandwidth

RESULT:**Pass****Test Specification**

Test standard : RSS-Gen clause 6.7
Basic standard : ANSI C63.10: 2013
Kind of test site : Shielded Room

Test Setup

Date of testing : 2021-07-22
Input voltage : DC 24V
Operation mode : A
Test channel : Low / Middle / High
Ambient temperature : 24.8 °C
Relative humidity : 53 %
Atmospheric pressure : 101 kPa

Table 7: Test Result of 99% Bandwidth, 1Mbps

Channel	Channel Frequency (MHz)	99% Bandwidth (kHz)	Limit (MHz)	Result
Low Channel	2402	1.025	/	Pass
Mid Channel	2440	1.025	/	Pass
High Channel	2480	1.020	/	Pass

For the measurement records, refer to the appendix B.

5.1.5 6dB Bandwidth

RESULT:**Pass****Test Specification**

Test standard : FCC Part 15.247(a)(2)
RSS-247 Clause 5.2(a)
Basic standard : ANSI C63.10: 2013
Kind of test site : Shielded Room

Test Setup

Date of testing : 2021-07-22
Input voltage : DC 24V
Operation mode : A
Test channel : Low / Middle / High
Ambient temperature : 24.8 °C
Relative humidity : 53 %
Atmospheric pressure : 101 kPa

Table 8: Test Result of 6dB Bandwidth, 1Mbps

Channel	Channel Frequency (MHz)	-6dB Bandwidth (kHz)	Limit (kHz)	Result
Low Channel	2402	693.070	500	Pass
Mid Channel	2440	712.872	500	Pass
High Channel	2480	732.674	500	Pass

For the measurement records, refer to the appendix B.

5.1.6 Conducted Spurious Emissions Measured in 100 kHz Bandwidth

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.247(d) RSS-247 Clause 5.5
Basic standard	: ANSI C63.10: 2013
Limits	: 20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power); In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2021-07-22
Input voltage	: DC 24V
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 24.8 °C
Relative humidity	: 53 %
Atmospheric pressure	: 101 kPa

Test results of 100kHz Bandwidth of Frequency Band Edge by Conducted method refer to test plots, and compliance is achieved as well.

For the measurement records, refer to the appendix B.

5.1.7 Radiated Spurious Emission

RESULT:**Pass****Test Specification**

Test standard	:	FCC Part 15.247(d) & FCC Part 15.205 RSS-247 Clause 3.3 & 5.5
Basic standard	:	ANSI C63.10: 2013
Limits	:	Refer to 15.209(a) of FCC part 15.247(d) RSS-Gen Table 4 & Table 5
Kind of test site	:	3m Semi-anechoic Chamber

Test Setup

Date of testing	:	2021-07-22
Input voltage	:	DC 24V
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	24 °C
Relative humidity	:	47 %
Atmospheric pressure	:	101 kPa

Remark:

Testing was carried out within frequency range 9kHz to the tenth harmonics. Only the worst case spurious emissions configuration of the each mode were reported.

For the measurement records, refer to the appendix B.

5.1.8 Conducted Emission on AC Mains

RESULT:**Pass****Test Specification**

Test standard	:	FCC Part 15.207(a) RSS-Gen Clause 8.8
Basic standard	:	ANSI C63.10: 2013
Frequency range	:	0.15 – 30MHz
Limits	:	FCC Part 15.207(a) RSS-Gen Table 4
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2021-07-23
Input voltage	:	AC 120V/60Hz
Operation mode	:	B
Earthing	:	Not connected
Ambient temperature	:	24.8 °C
Relative humidity	:	53 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix B.

6 Safety Human Exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT:**Pass****Test Specification**

Test standard : FCC KDB Publication 447498 v06
CFR47 FCC Part 2: Section 2.1093
CFR47 FCC Part 1: Section 1.1310
RSS-102 Issue 5 March 2015

Measurement Record:

The measured maximum conducted output power of the EUT is -1.0dBm $\approx$ 0.794mW, which is far below the SAR exclusion threshold level 10mW (SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and $\leq$ 50 mm), hence the EUT is excluded from SAR evaluation according to FCC KDB publication 447498 D01: Mobile and Portable RF Exposure. Guidance v06.

The measured maximum specified e.i.r.p of the EUT is 0.5dBm $\approx$ 1.122mW, which is far below the SAR exclusion threshold level 4mW, hence the EUT is excluded from SAR evaluation according to RSS-102 Issue 5 section 2.5.1.

7 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix A.

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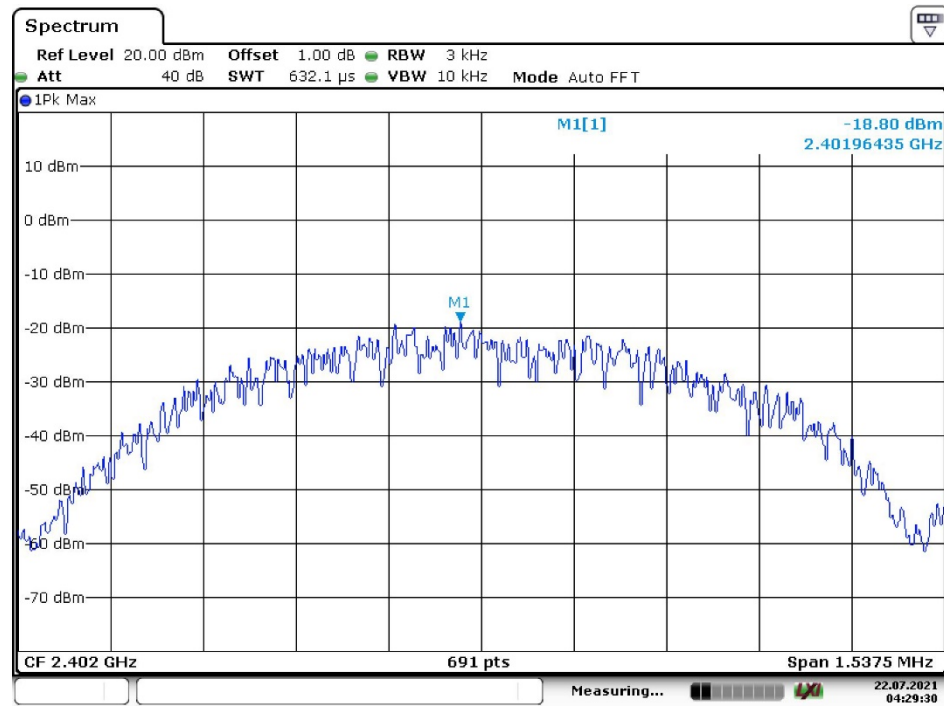
Appendix B: Test Results

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APPENDIX B.7: TEST RESULTS OF CONDUCTED EMISSIONS ON AC MAINS	52

Appendix B.1: Conducted Power Spectral Density

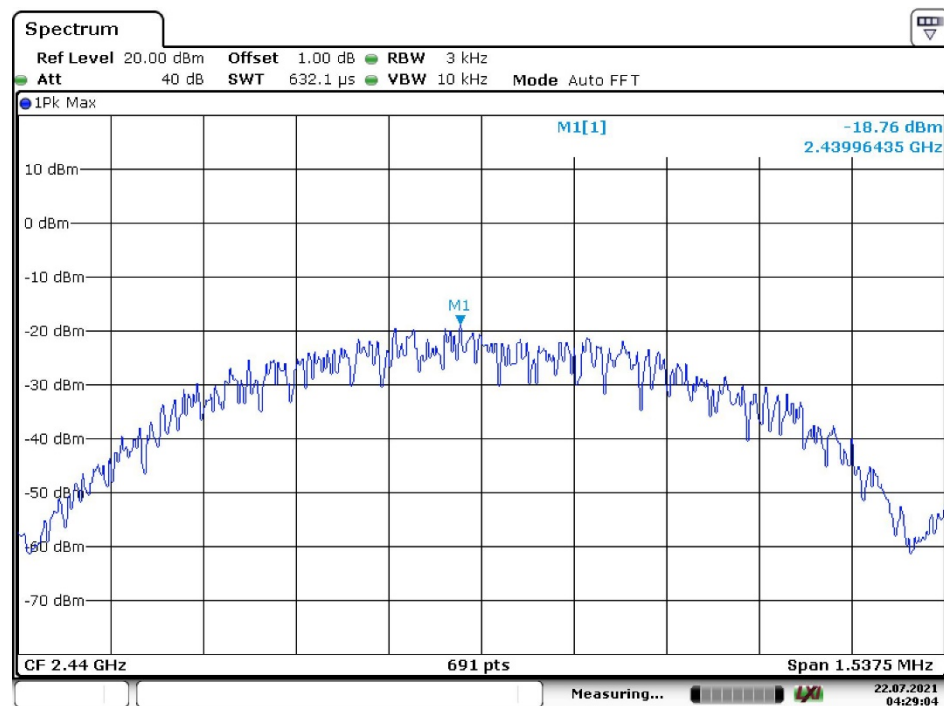
BLE, 1Mbps

Low Channel



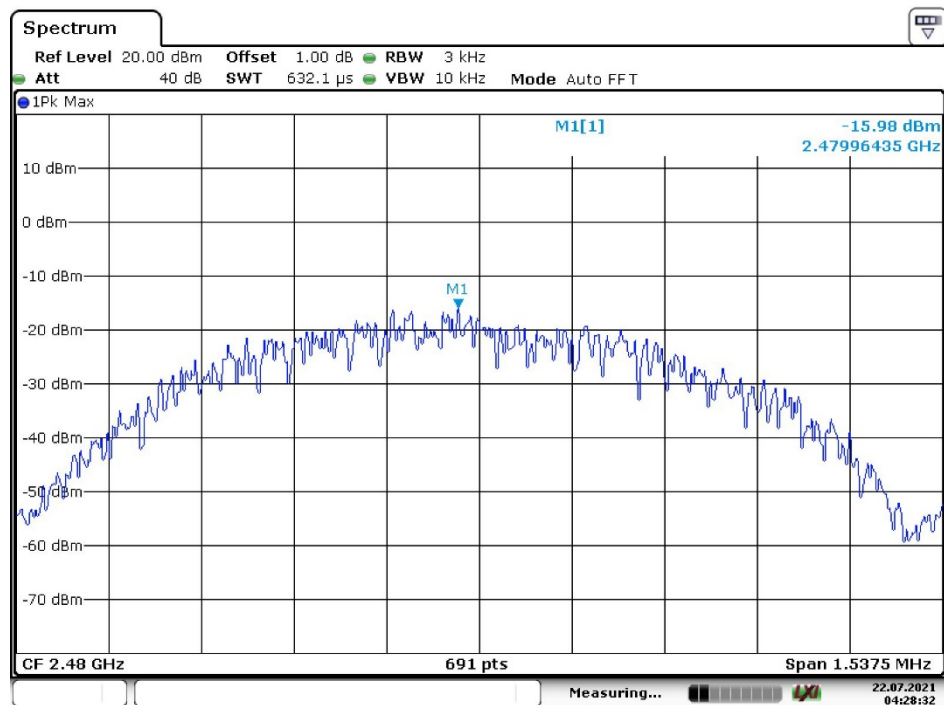
Date: 22.JUL.2021 04:29:30

Middle Channel



Date: 22.JUL.2021 04:29:04

High Channel



Date: 22.JUL.2021 04:28:32

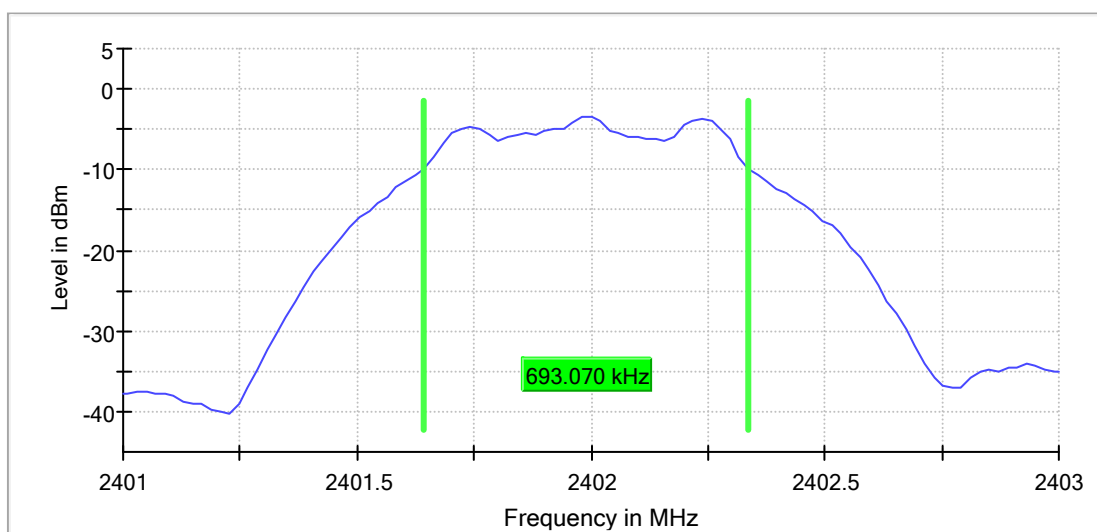
Appendix B.2: 6dB Bandwidth

BLE, 1Mbps

Low Channel

RBW=100kHz, VBW=300kHz

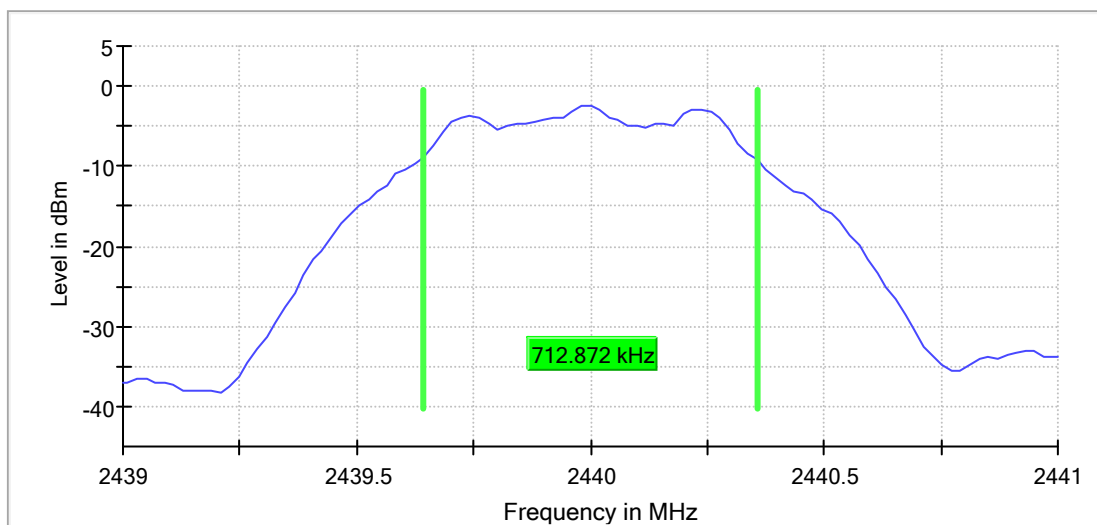
6 dB Bandwidth



Middle Channel

RBW=100kHz, VBW=300kHz

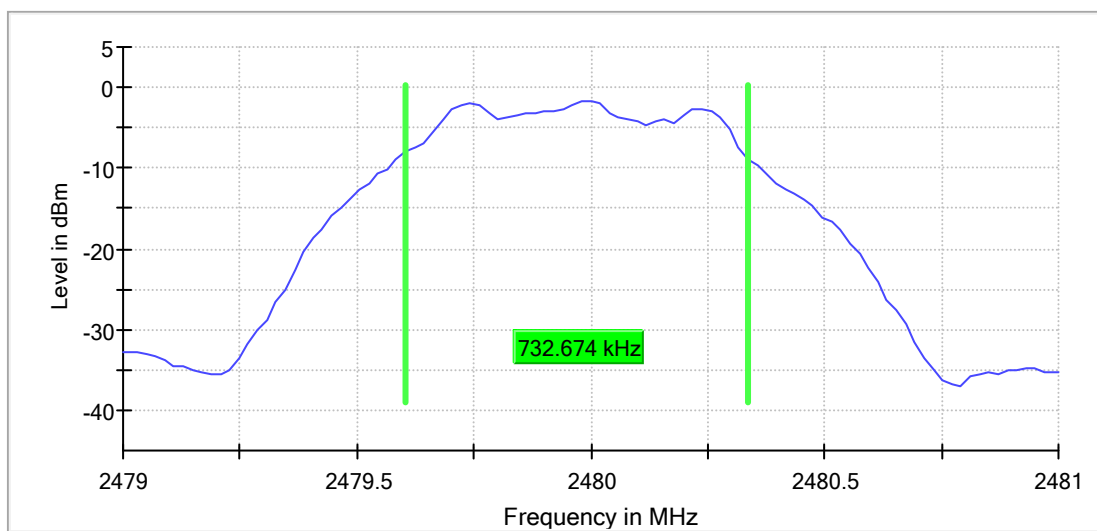
6 dB Bandwidth



High Channel

RBW=100kHz, VBW=300kHz

6 dB Bandwidth



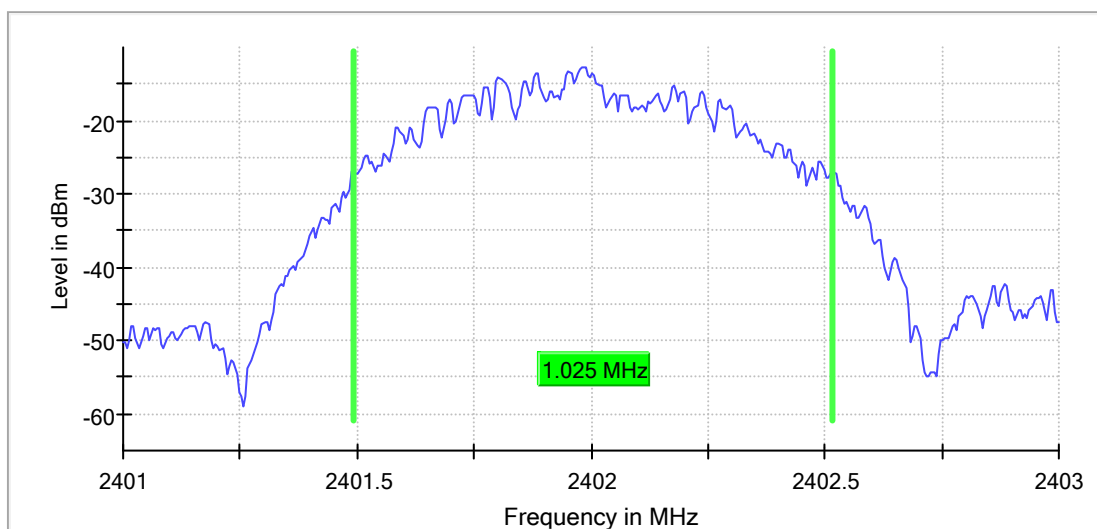
Appendix B.3: 99% Bandwidth

BLE, 1Mbps

Low Channel

RBW=30kHz, VBW=100kHz

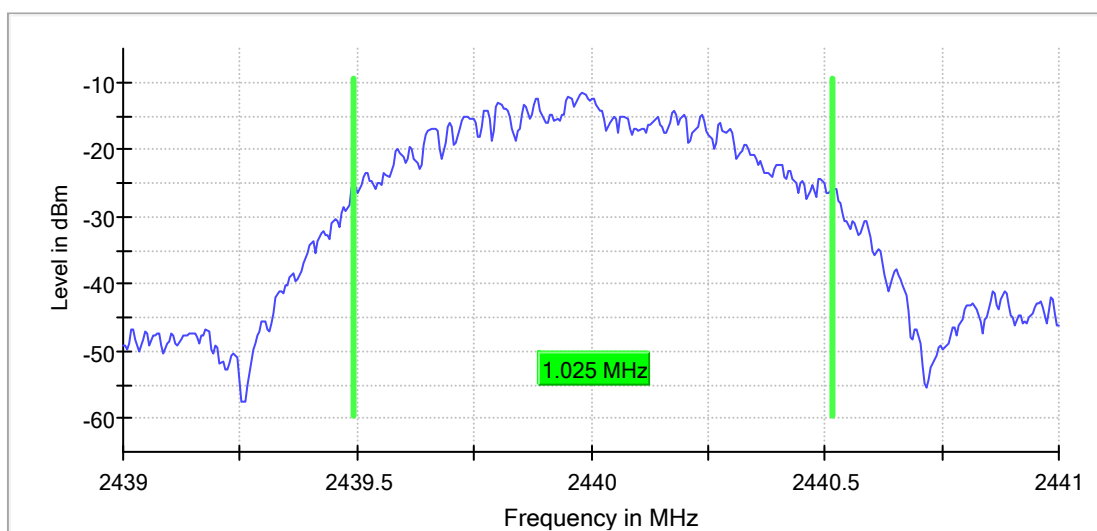
99 % Bandwidth



Middle Channel

RBW=30kHz, VBW=100kHz

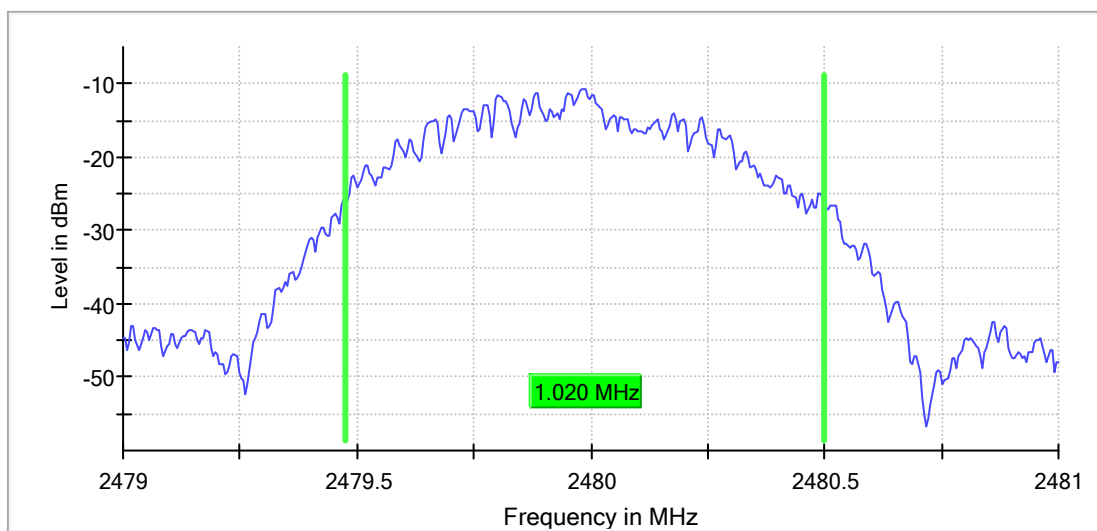
99 % Bandwidth



High Channel

RBW=30kHz, VBW=100kHz

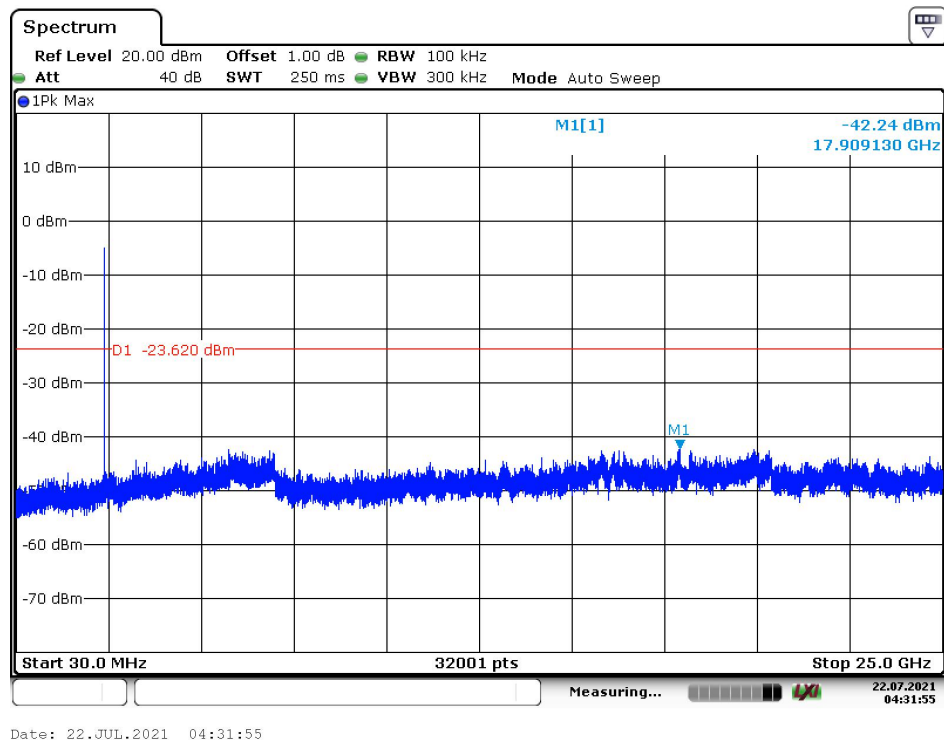
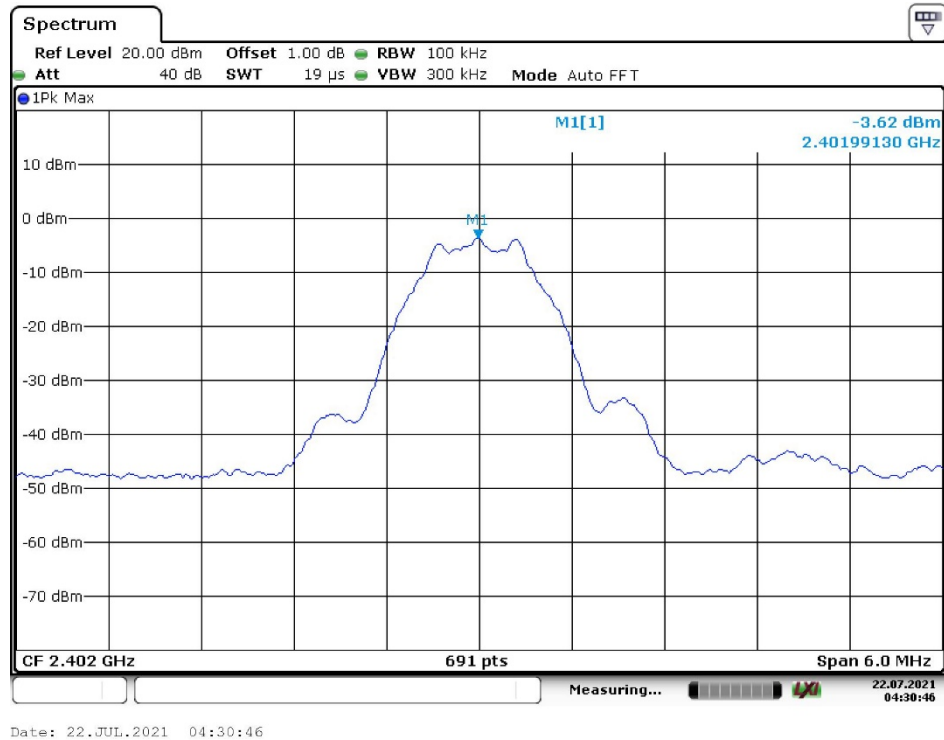
99 % Bandwidth



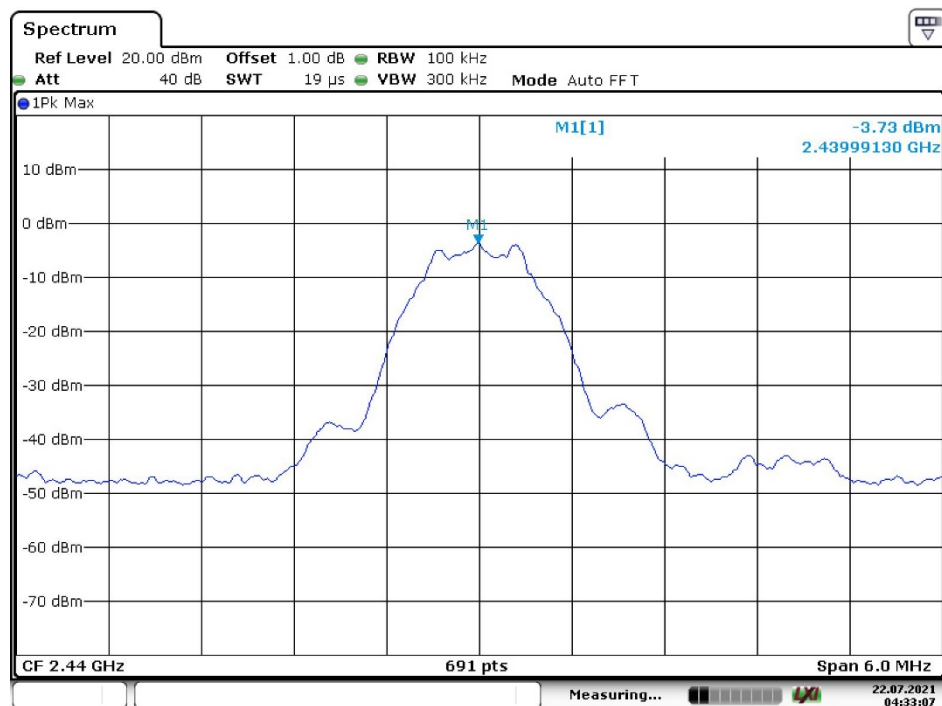
Appendix B.4: Conducted Spurious Emissions Measured in 100 kHz Bandwidth

BLE, 1Mbps

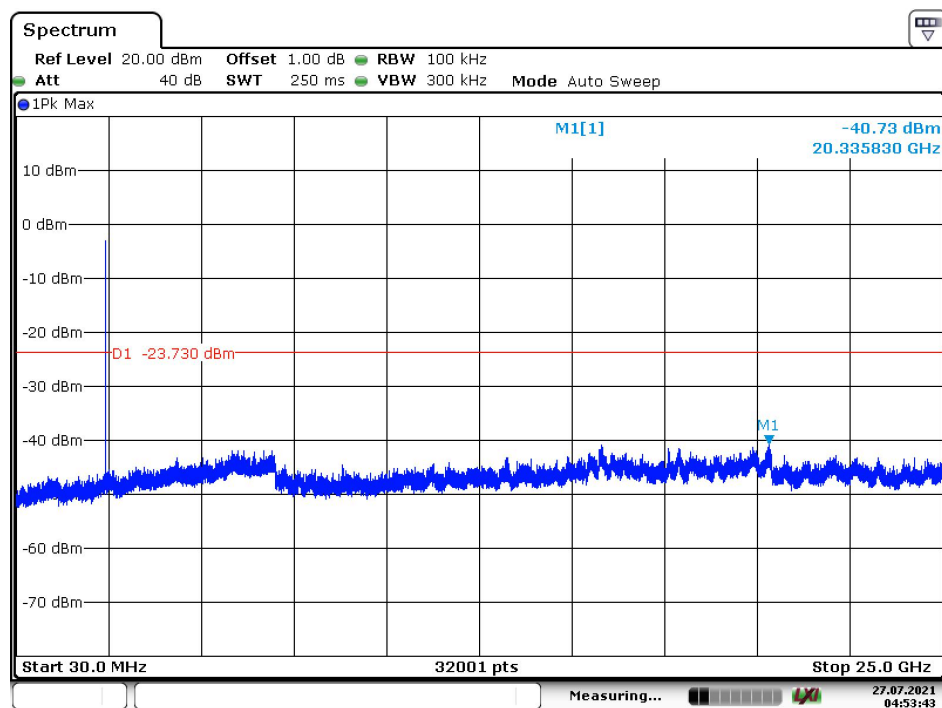
Low Channel



Middle Channel

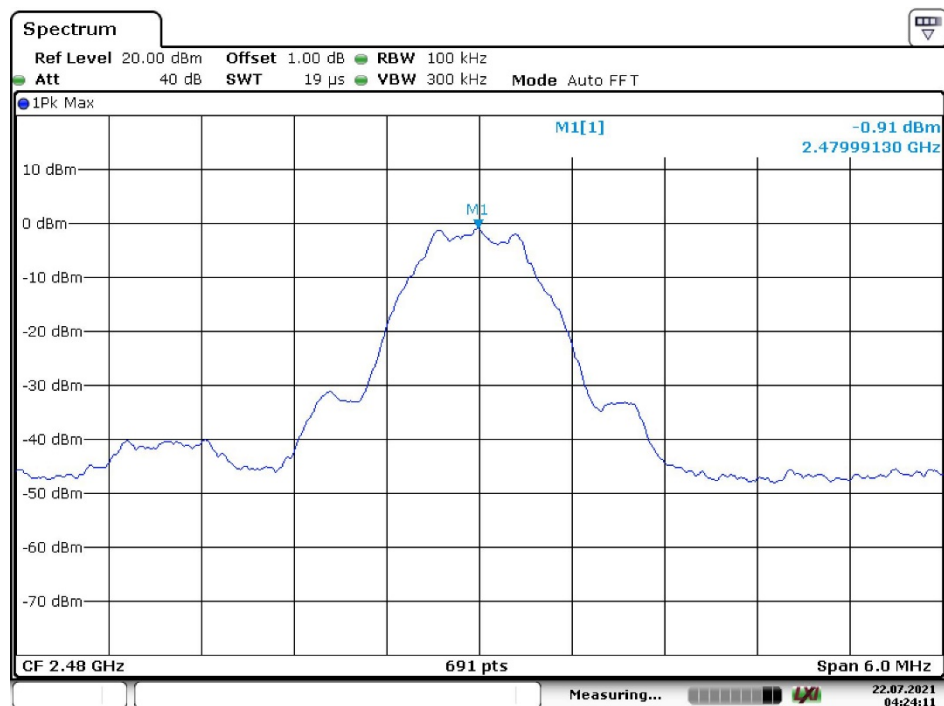


Date: 22.JUL.2021 04:33:07

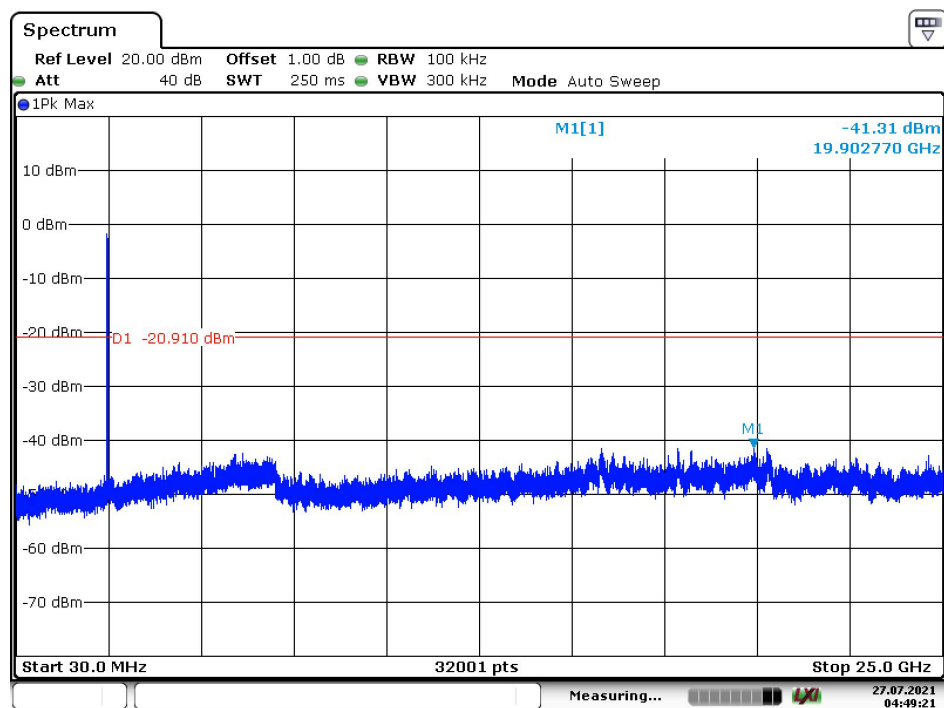


Date: 27.JUL.2021 04:53:43

High Channel

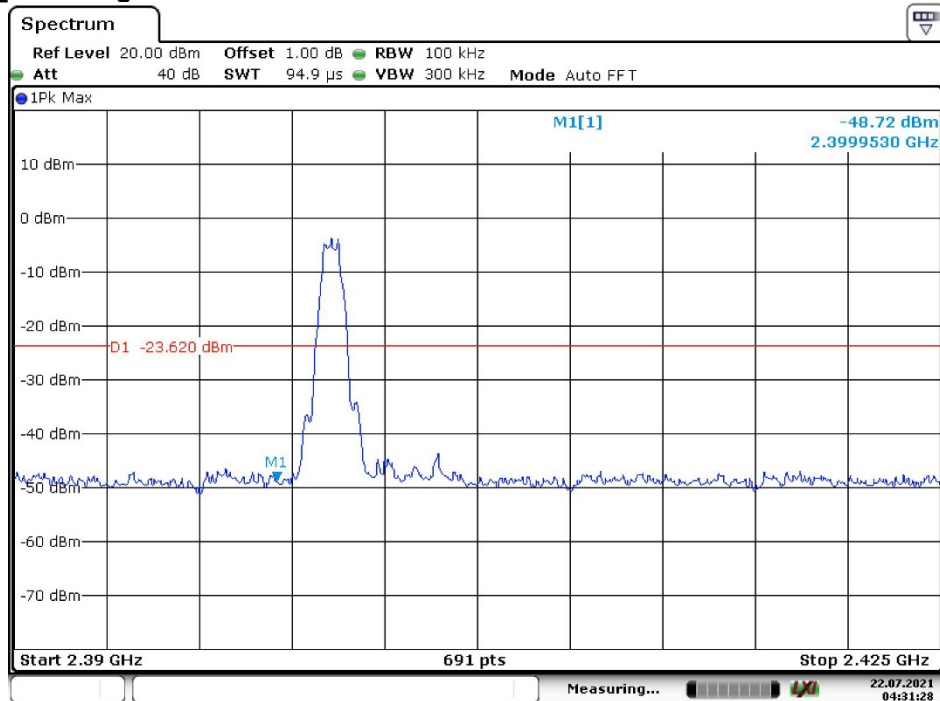


Date: 22.JUL.2021 04:24:11



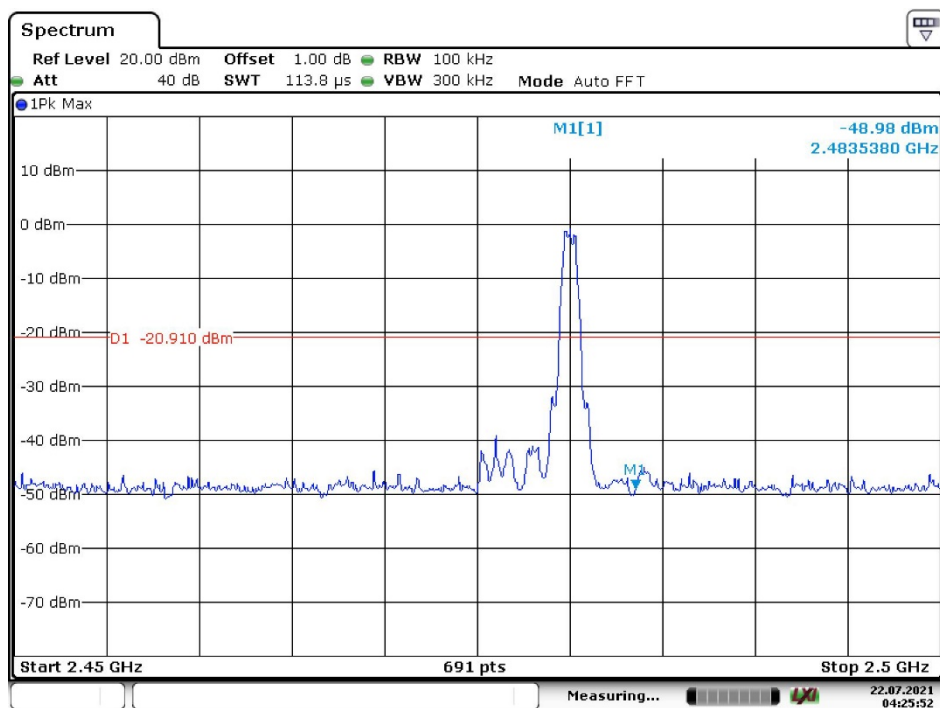
Date: 27.JUL.2021 04:49:22

Low Channel_Band Edge



Date: 22.JUL.2021 04:31:28

High Channel_Band Edge



Date: 22.JUL.2021 04:25:52

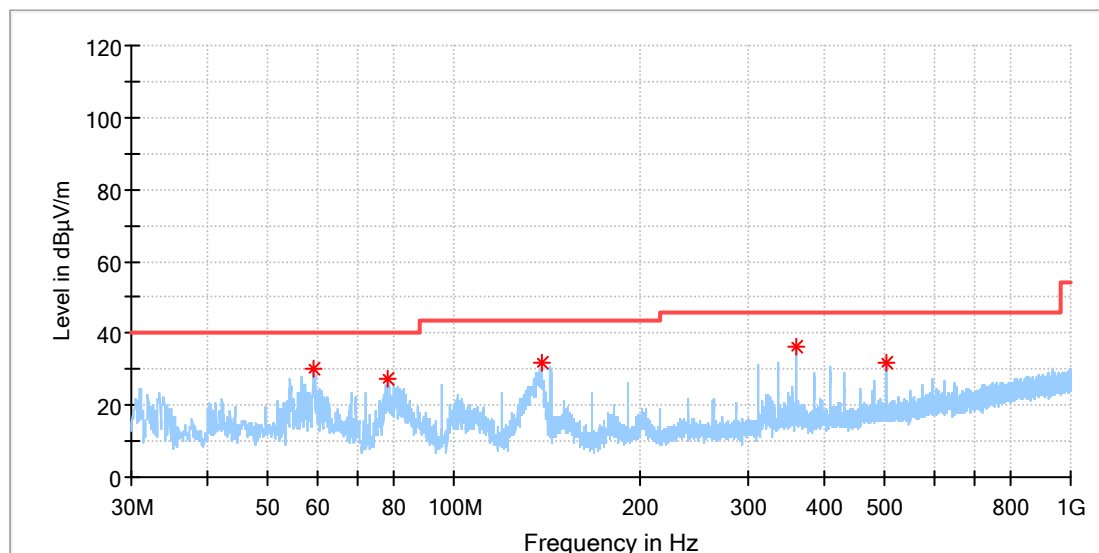
Appendix B.5: Test Results of Radiated Spurious Emissions

Note 1: Testing was carried out within frequency range 9 kHz to the tenth harmonics. The measurement results below 30MHz and above 18GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

BLE, 1Mbps(Model: LA503)

EUT Information

EUT Name:	Smart Air Purifier
Model:	LA503
Test Mode:	BLE_Low channel_H
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

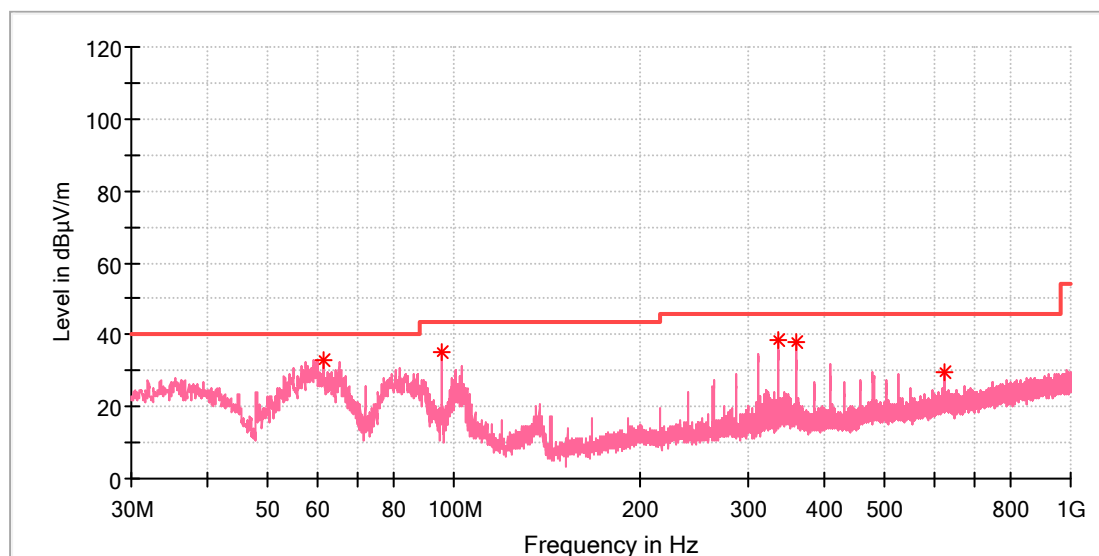


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
59.148500	30.06	40.00	9.94	100.0	H	0.0	-18.9
78.257500	27.57	40.00	12.43	100.0	H	0.0	-23.4
138.979500	31.77	43.50	11.73	100.0	H	3.0	-22.2
359.121000	36.30	46.00	9.70	100.0	H	6.0	-14.7
502.584000	31.67	46.00	14.33	100.0	H	0.0	-11.8

EUT Information

EUT Name: Smart Air Purifier
Model: LA503
Test Mode: BLE_Low channel_V
Test Voltage:: 120V/60Hz
Remark: Temp 24 Humi:47%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

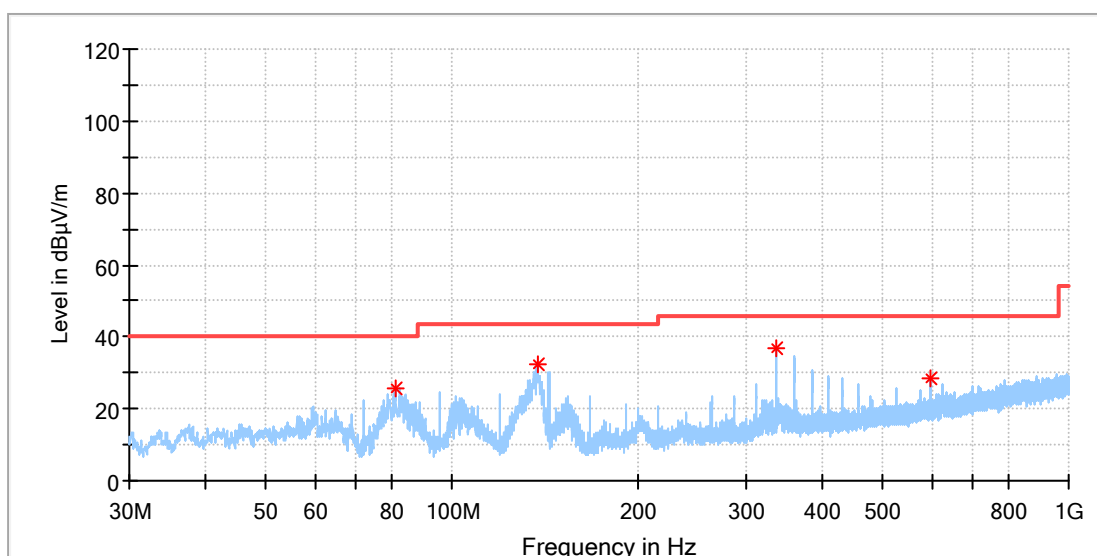


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
61.573500	32.72	40.00	7.28	100.0	V	344.0	-19.3
95.717500	34.93	43.50	8.57	100.0	V	105.0	-19.7
335.065000	38.40	46.00	7.60	100.0	V	174.0	-15.2
358.975500	37.91	46.00	8.09	100.0	V	356.0	-14.7
622.476000	29.55	46.00	16.45	100.0	V	313.0	-9.5

EUT Information

EUT Name: Smart Air Purifier
Model: LA503
Test Mode: BLE_High channel_H
Test Voltage:: 120V/60Hz
Remark: Temp 24 Humi:47%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

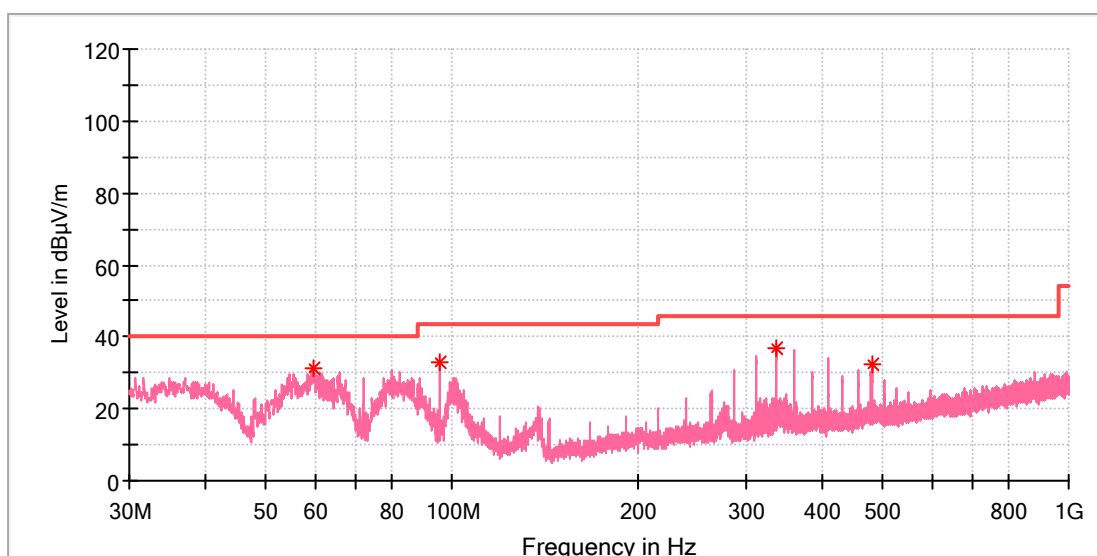


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
80.925000	25.83	40.00	14.17	100.0	H	111.0	-23.3
137.767000	32.25	43.50	11.25	100.0	H	0.0	-22.2
335.210500	36.62	46.00	9.38	100.0	H	304.0	-15.2
598.371500	28.44	46.00	17.56	100.0	H	261.0	-9.9

EUT Information

EUT Name: Smart Air Purifier
Model: LA503
Test Mode: BLE_High channel_V
Test Voltage:: 120V/60Hz
Remark: Temp 24 Humi:47%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

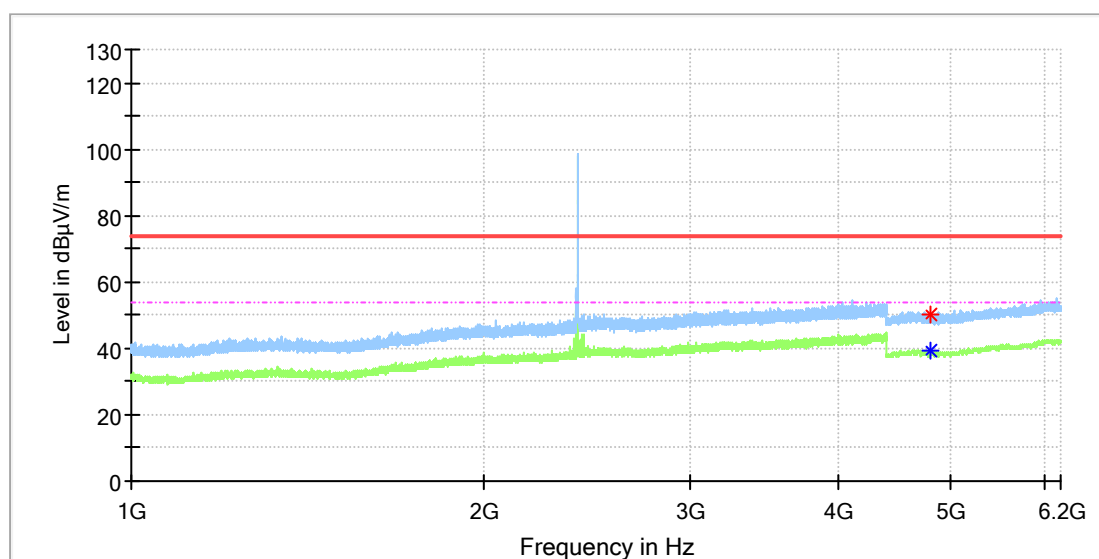


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
59.730500	31.13	40.00	8.87	100.0	V	6.0	-18.9
95.766000	32.85	43.50	10.65	100.0	V	238.0	-19.7
335.259000	36.84	46.00	9.16	100.0	V	348.0	-15.2
478.916000	32.49	46.00	13.51	100.0	V	183.0	-12.2

EUT Information

EUT Name: Smart Air Purifier
Model: LA503
Test Mode: BLE_Low channel_H
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:51%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

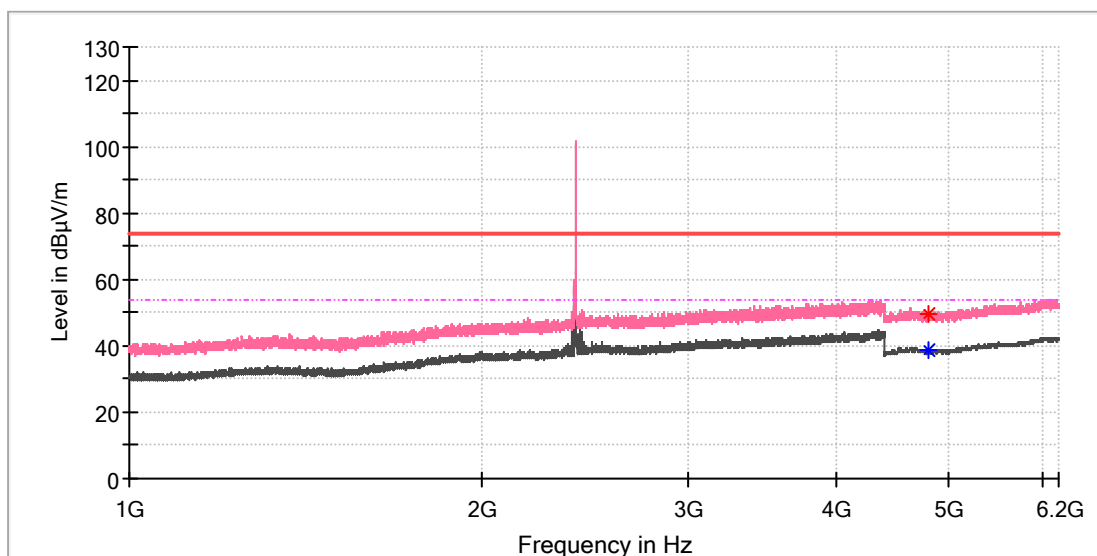


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4806.500000	50.37	---	74.00	23.63	150.0	H	136.0	11.8
4807.000000	---	39.03	54.00	14.97	150.0	H	167.0	11.8

EUT Information

EUT Name: Smart Air Purifier
Model: LA503
Test Mode: BLE_Low channel_V
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:51%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

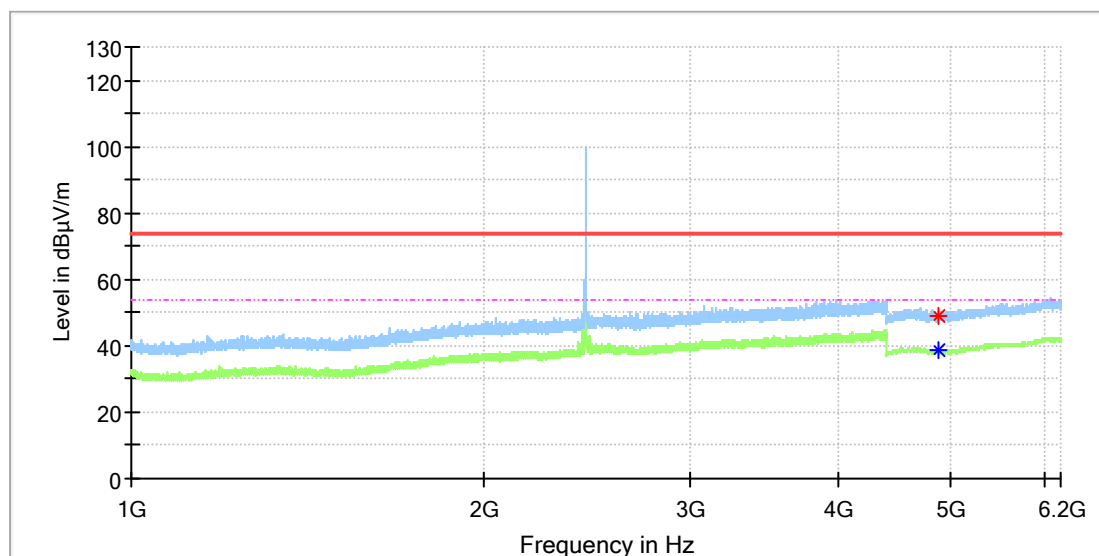


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4804.000000	49.81	---	74.00	24.19	150.0	V	6.0	11.8
4808.500000	---	38.83	54.00	15.17	150.0	V	155.0	11.8

EUT Information

EUT Name: Smart Air Purifier
Model: LA503
Test Mode: BLE_Middle channel_H
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:51%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

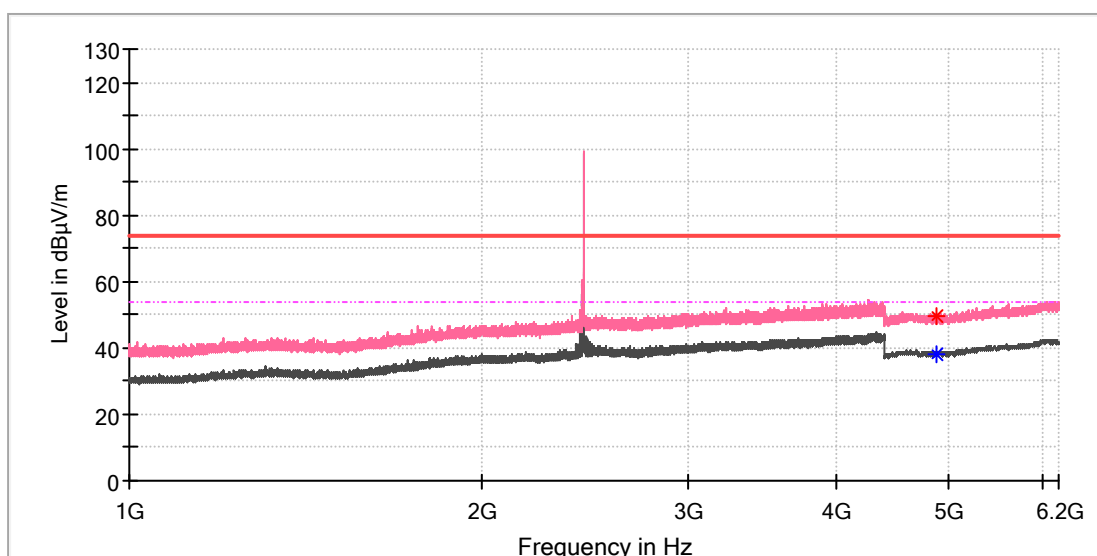


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4879.000000	49.26	---	74.00	24.74	150.0	H	143.0	11.8
4880.000000	---	38.56	54.00	15.44	150.0	H	194.0	11.8

EUT Information

EUT Name: Smart Air Purifier
Model: LA503
Test Mode: BLE_Middle channel_V
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:51%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

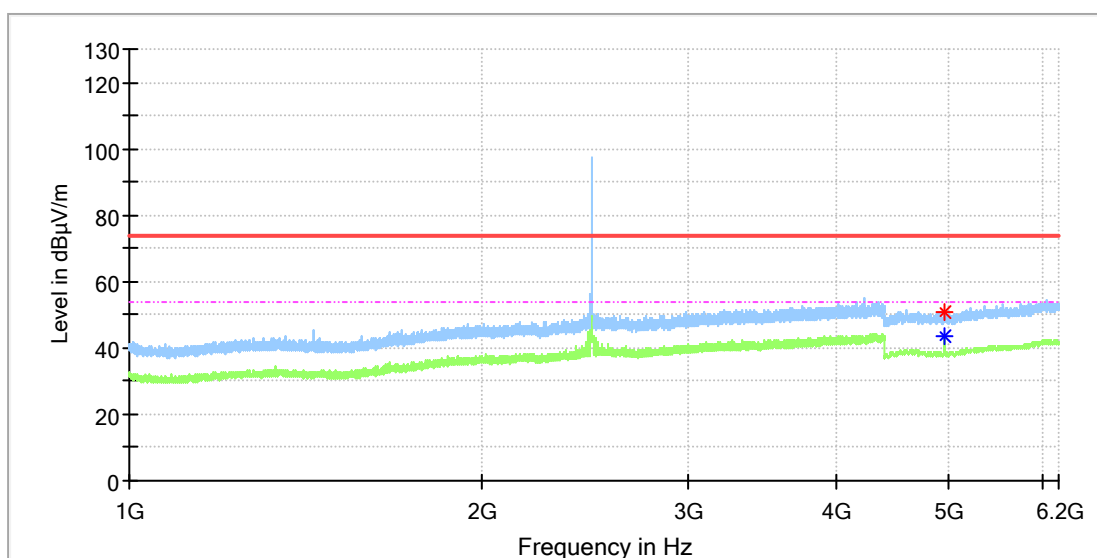


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4876.500000	---	38.27	54.00	15.73	150.0	V	59.0	11.8
4879.000000	49.31	---	74.00	24.69	150.0	V	149.0	11.8

EUT Information

EUT Name: Smart Air Purifier
Model: LA503
Test Mode: BLE_High channel_H
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:51%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

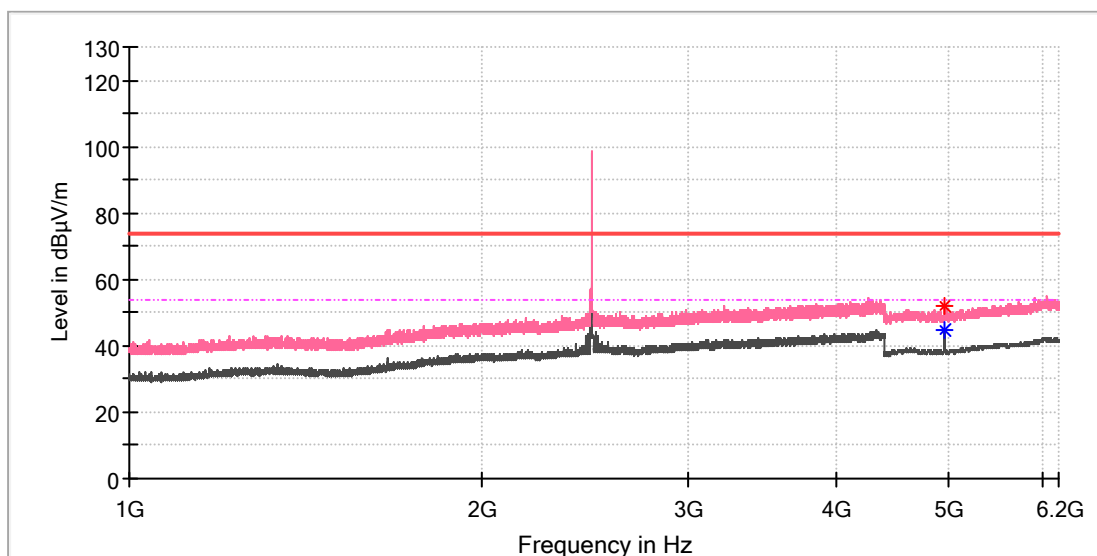


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4959.500000	50.86	---	74.00	23.14	150.0	H	15.0	11.8
4960.000000	---	43.43	54.00	10.57	150.0	H	339.0	11.8

EUT Information

EUT Name: Smart Air Purifier
Model: LA503
Test Mode: BLE_High channel_V
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:51%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

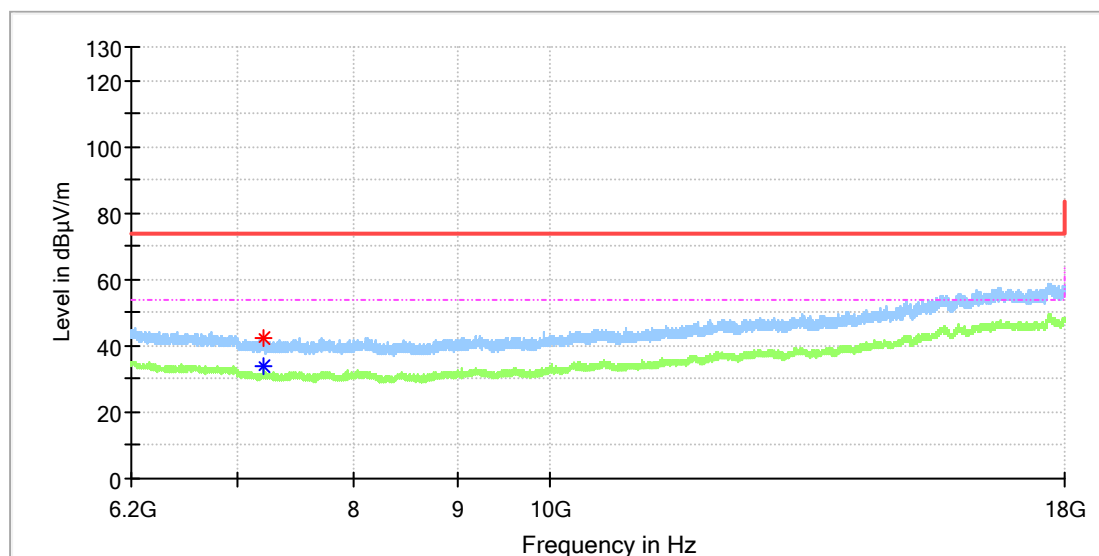


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4959.500000	51.92	---	74.00	22.08	150.0	V	312.0	11.8
4960.000000	---	44.48	54.00	9.52	150.0	V	312.0	11.8

EUT Information

EUT Name: Smart Air Purifier
Model: LA503
Test Mode: BLE_Low channel_H
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:51%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

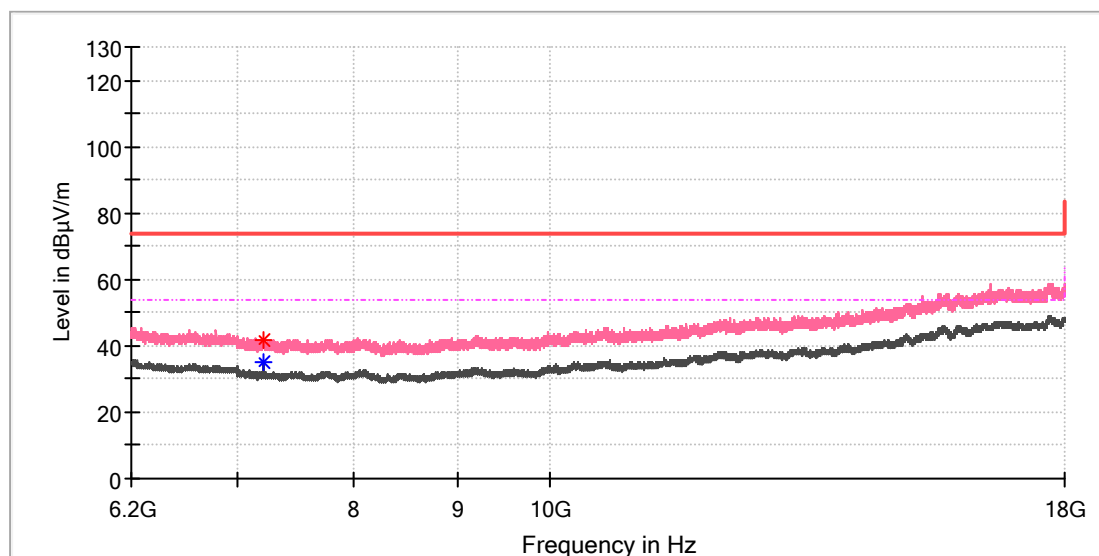


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7206.441667	42.23	---	74.00	31.77	150.0	H	259.0	8.8
7206.441667	---	34.11	54.00	19.89	150.0	H	259.0	8.8

EUT Information

EUT Name: Smart Air Purifier
Model: LA503
Test Mode: BLE_Low channel_V
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:51%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

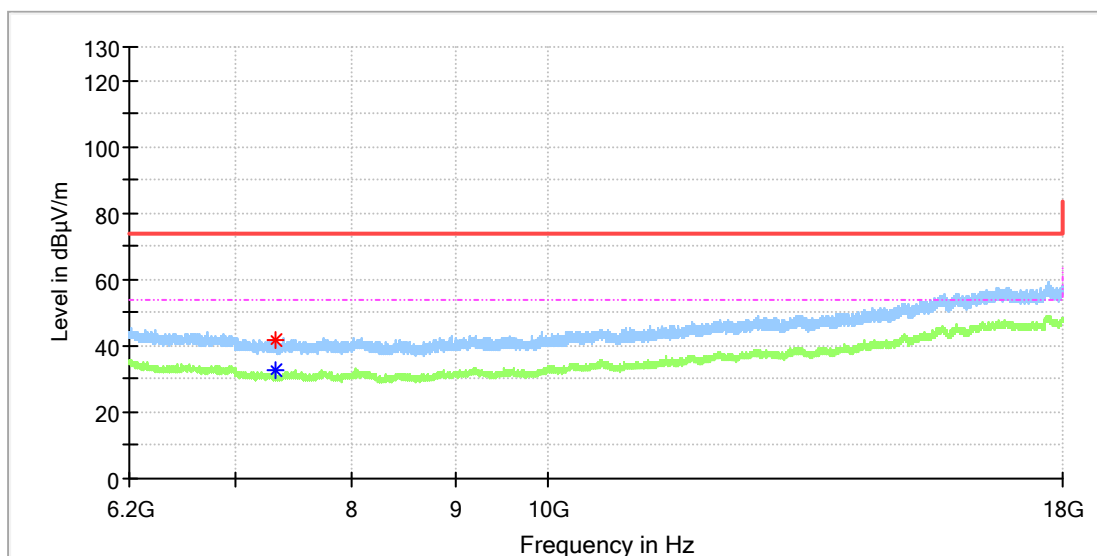


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7204.475000	41.54	---	74.00	32.46	150.0	V	97.0	8.8
7206.441667	---	34.98	54.00	19.02	150.0	V	342.0	8.8

EUT Information

EUT Name: Smart Air Purifier
Model: LA503
Test Mode: BLE_Middle channel_H
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:51%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

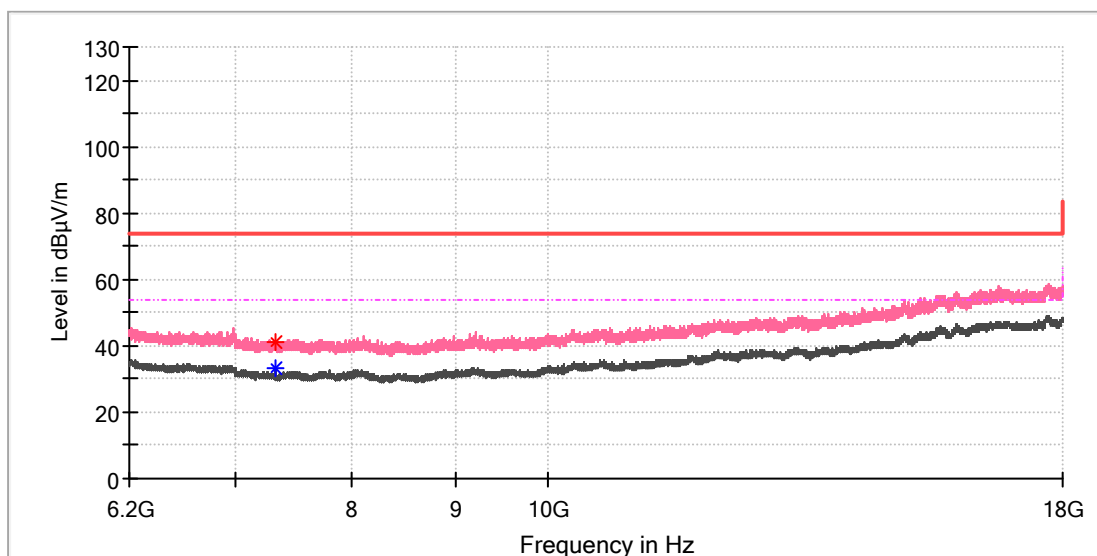


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7318.541667	41.84	---	74.00	32.16	150.0	H	321.0	8.2
7319.525000	---	32.78	54.00	21.22	150.0	H	277.0	8.2

EUT Information

EUT Name: Smart Air Purifier
Model: LA503
Test Mode: BLE_Middle channel_V
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:51%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

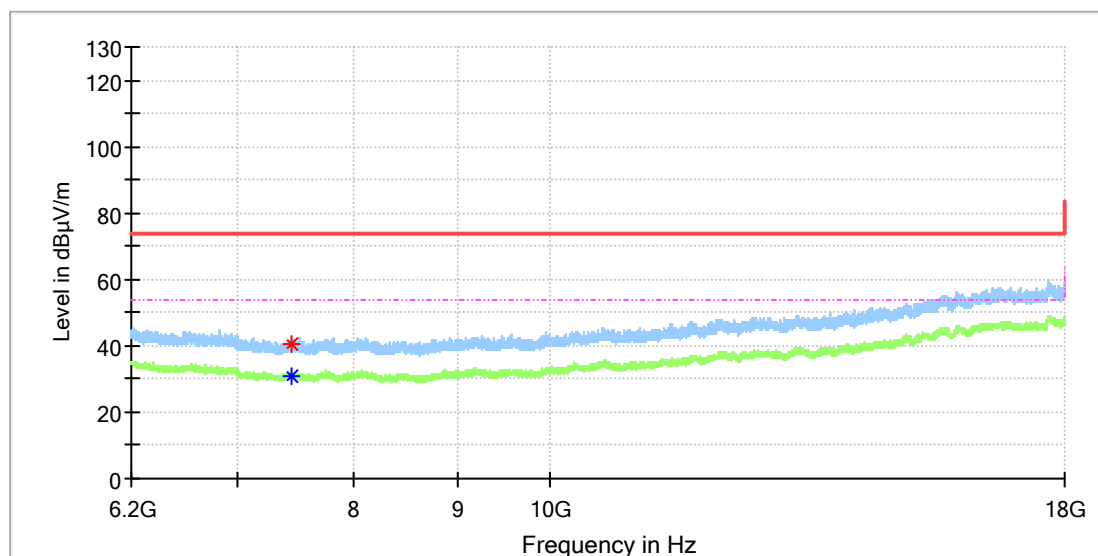


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7320.508333	---	33.02	54.00	20.98	150.0	V	288.0	8.2
7325.425000	41.27	---	74.00	32.73	150.0	V	331.0	8.2

EUT Information

EUT Name: Smart Air Purifier
Model: LA503
Test Mode: BLE_High channel_V
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:51%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

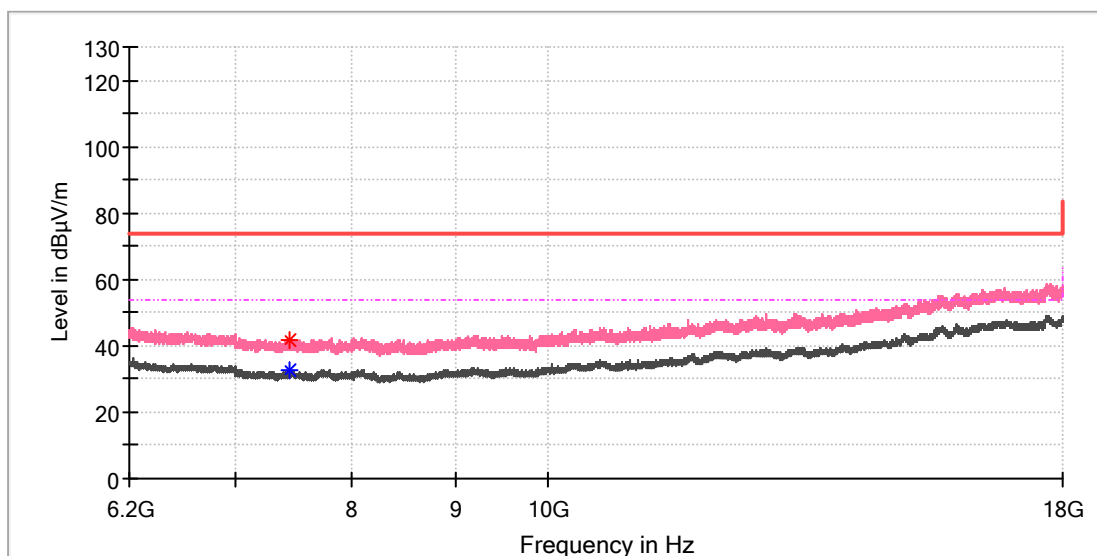


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7439.983333	---	31.11	54.00	22.89	150.0	H	300.0	8.4
7444.900000	40.70	---	74.00	33.30	150.0	H	231.0	8.5

EUT Information

EUT Name: Smart Air Purifier
Model: LA503
Test Mode: BLE_High channel_V
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:51%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



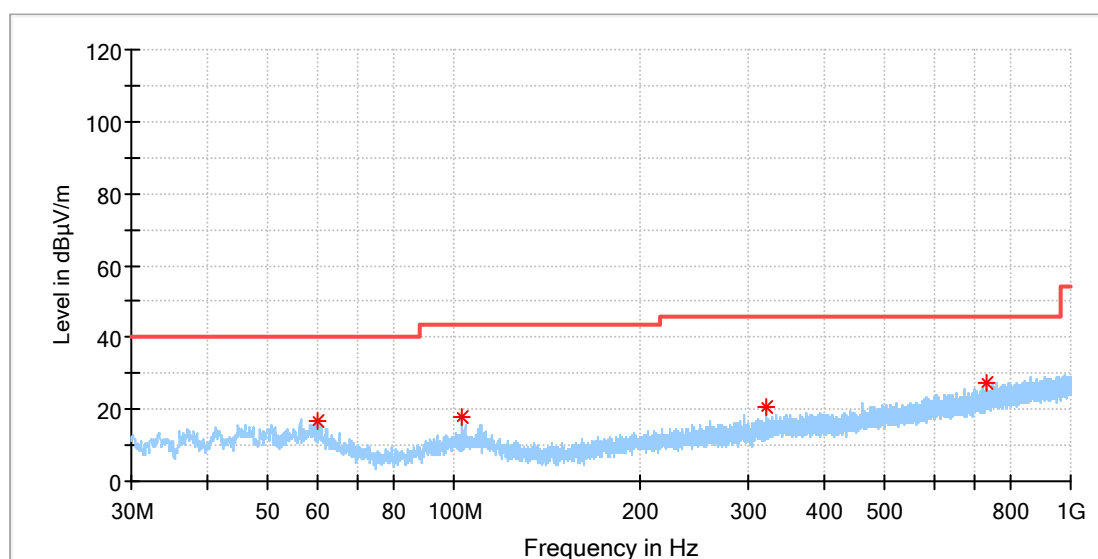
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7438.508333	41.53	---	74.00	32.47	150.0	V	112.0	8.4
7439.000000	---	32.49	54.00	21.51	150.0	V	99.0	8.4

BLE, 1Mbps (Model: LA333)

EUT Information

EUT Name: Smart Air Purifier
Model: LA333
Test Mode: BLE_Low channel_H
Test Voltage: 120V/60Hz
Remark: Temp 24 Humi:47%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

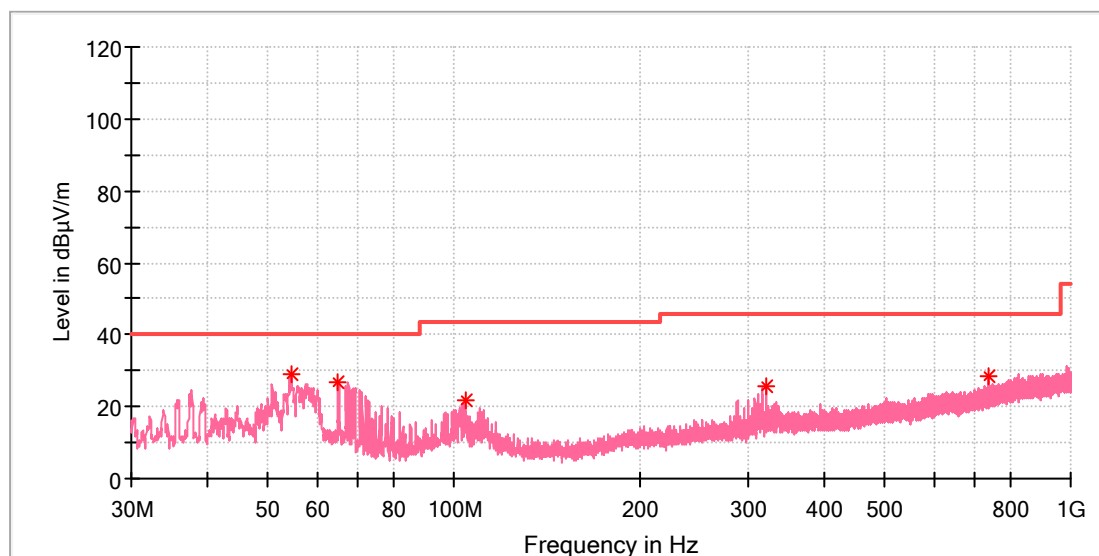


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
59.973000	16.97	40.00	23.03	100.0	H	13.0	-19.0
102.944000	17.73	43.50	25.77	100.0	H	85.0	-18.8
320.030000	20.73	46.00	25.27	100.0	H	349.0	-15.8
732.619500	27.07	46.00	18.93	100.0	H	184.0	-7.5

EUT Information

EUT Name: Smart Air Purifier
Model: LA333
Test Mode: BLE_Low channel_V
Test Voltage: 120V/60Hz
Remark: Temp 24 Humi:47%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

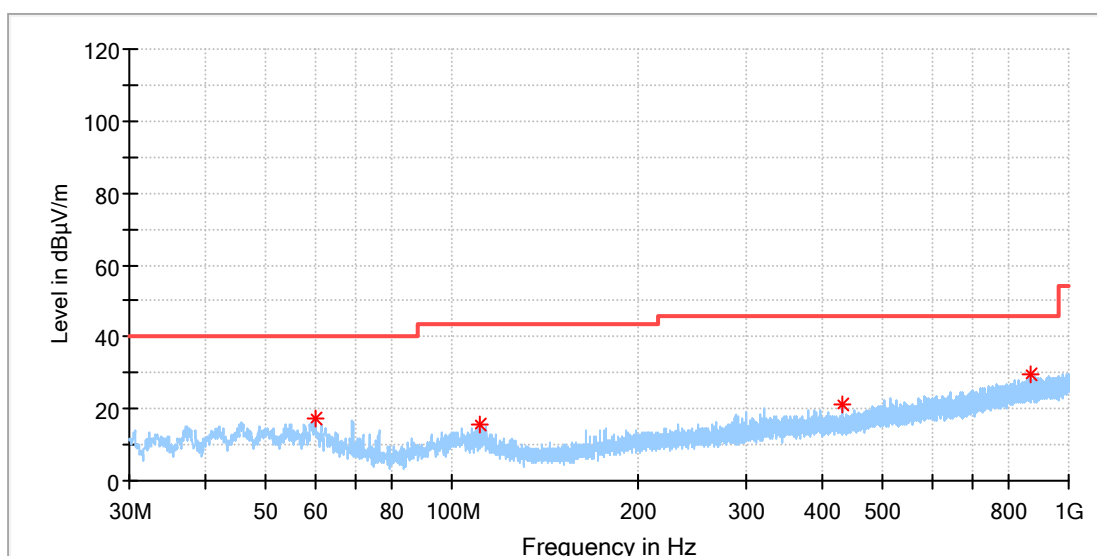


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
54.541000	28.86	40.00	11.14	100.0	V	263.0	-18.4
65.017000	26.62	40.00	13.38	100.0	V	10.0	-20.0
104.205000	21.52	43.50	21.98	100.0	V	229.0	-18.8
320.030000	25.88	46.00	20.12	100.0	V	299.0	-15.8
738.148500	28.34	46.00	17.66	100.0	V	162.0	-7.4

EUT Information

EUT Name: Smart Air Purifier
Model: LA333
Test Mode: BLE_High channel_H
Test Voltage:: 120V/60Hz
Remark: Temp 24 Humi:47%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

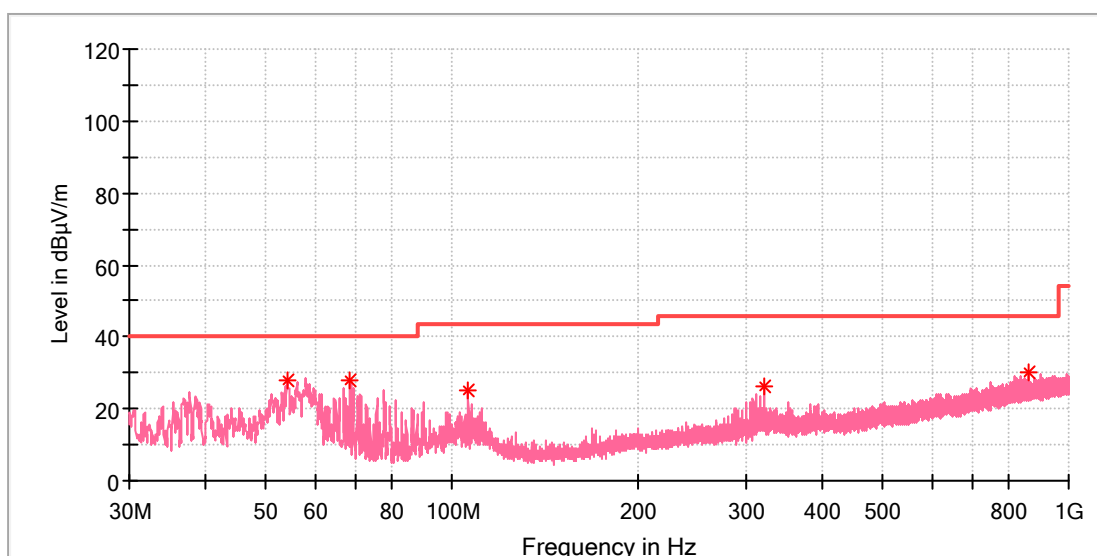


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
60.118500	17.35	40.00	22.65	100.0	H	119.0	-19.0
111.237500	15.72	43.50	27.78	100.0	H	309.0	-19.2
430.222000	21.17	46.00	24.83	100.0	H	119.0	-13.3
868.031500	29.32	46.00	16.68	100.0	H	257.0	-5.3

EUT Information

EUT Name: Smart Air Purifier
Model: LA333
Test Mode: BLE_High channel_V
Test Voltage: 120V/60Hz
Remark: Temp 24 Humi:47%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

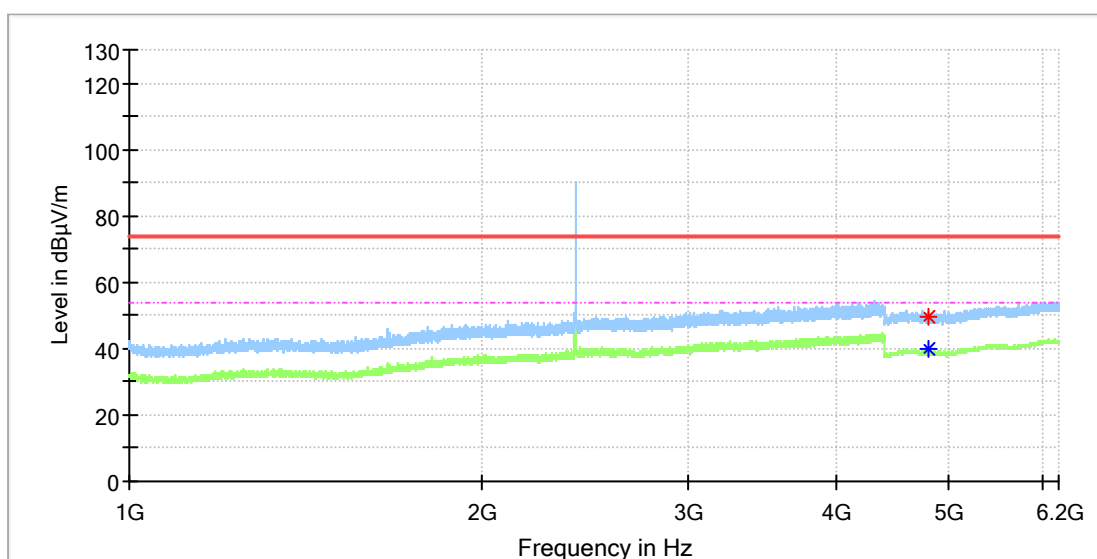


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
54.007500	27.92	40.00	12.08	100.0	V	257.0	-18.4
68.509000	27.85	40.00	12.15	100.0	V	167.0	-21.3
106.484500	24.98	43.50	18.52	100.0	V	345.0	-18.8
320.030000	26.09	46.00	19.91	100.0	V	288.0	-15.8
861.290000	30.08	46.00	15.92	100.0	V	0.0	-5.3

EUT Information

EUT Name: Smart Air Purifier
Model: LA333
Test Mode: BLE_Low channel_H
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:51%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

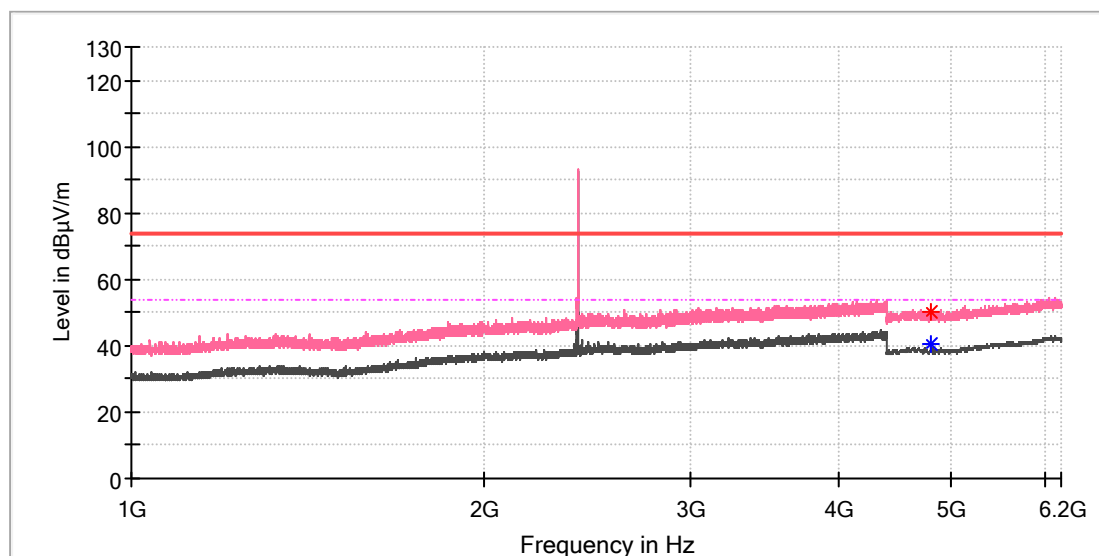


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4803.500000	49.72	---	74.00	24.28	150.0	H	201.0	11.8
4803.500000	---	39.82	54.00	14.18	150.0	H	201.0	11.8

EUT Information

EUT Name: Smart Air Purifier
Model: LA333
Test Mode: BLE_Low channel_V
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:51%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

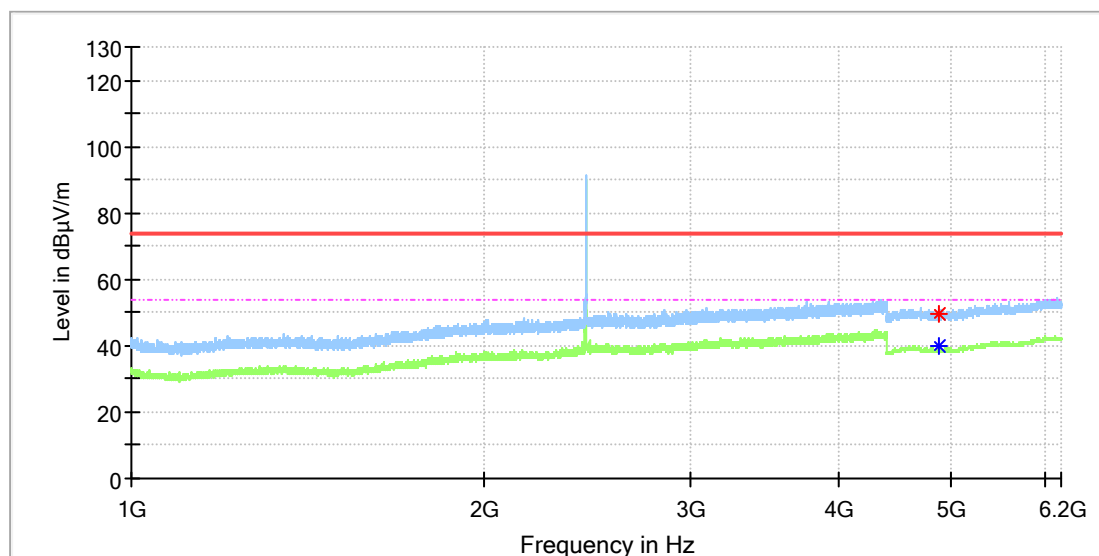


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4804.000000	---	40.25	54.00	13.75	150.0	V	325.0	11.8
4804.500000	50.39	---	74.00	23.61	150.0	V	291.0	11.8

EUT Information

EUT Name: Smart Air Purifier
Model: LA333
Test Mode: BLE_Middle channel_H
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:51%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

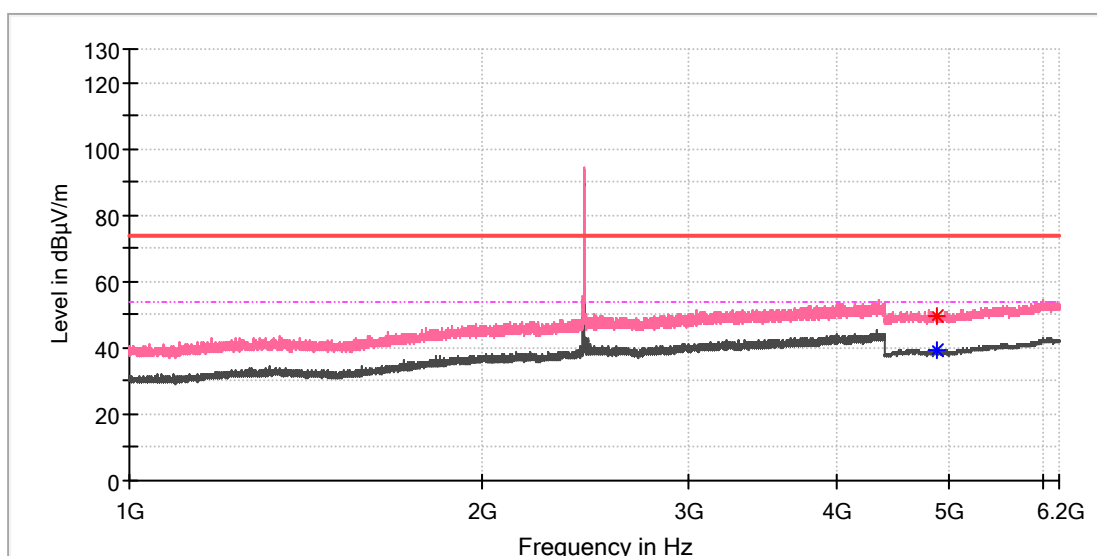


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4878.500000	49.40	---	74.00	24.60	150.0	H	76.0	11.8
4879.500000	---	39.64	54.00	14.36	150.0	H	4.0	11.8

EUT Information

EUT Name: Smart Air Purifier
Model: LA333
Test Mode: BLE_Middle channel_V
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:51%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

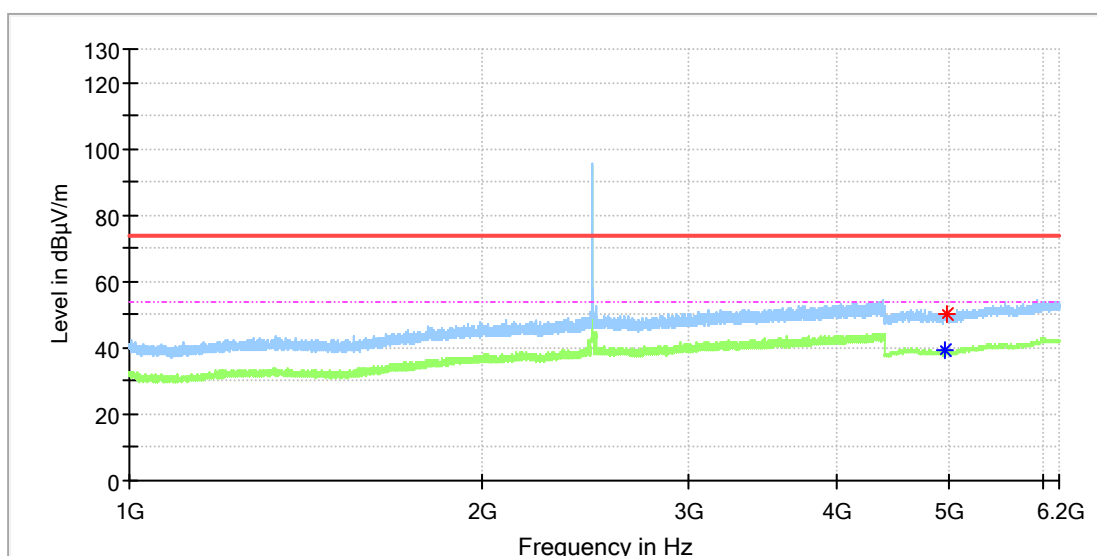


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4880.000000	---	39.15	54.00	14.85	150.0	V	195.0	11.8
4880.500000	49.64	---	74.00	24.36	150.0	V	42.0	11.8

EUT Information

EUT Name: Smart Air Purifier
Model: LA333
Test Mode: BLE_High channel_H
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:51%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

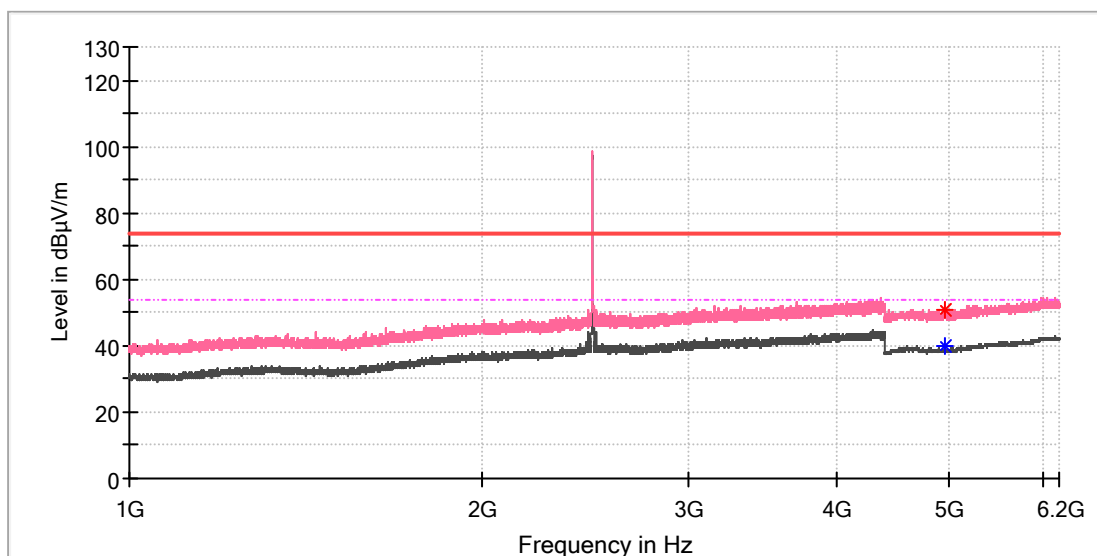


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4952.000000	---	39.06	54.00	14.94	150.0	H	274.0	11.8
4966.000000	50.11	---	74.00	23.89	150.0	H	223.0	11.8

EUT Information

EUT Name: Smart Air Purifier
Model: LA333
Test Mode: BLE_High channel_V
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:51%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

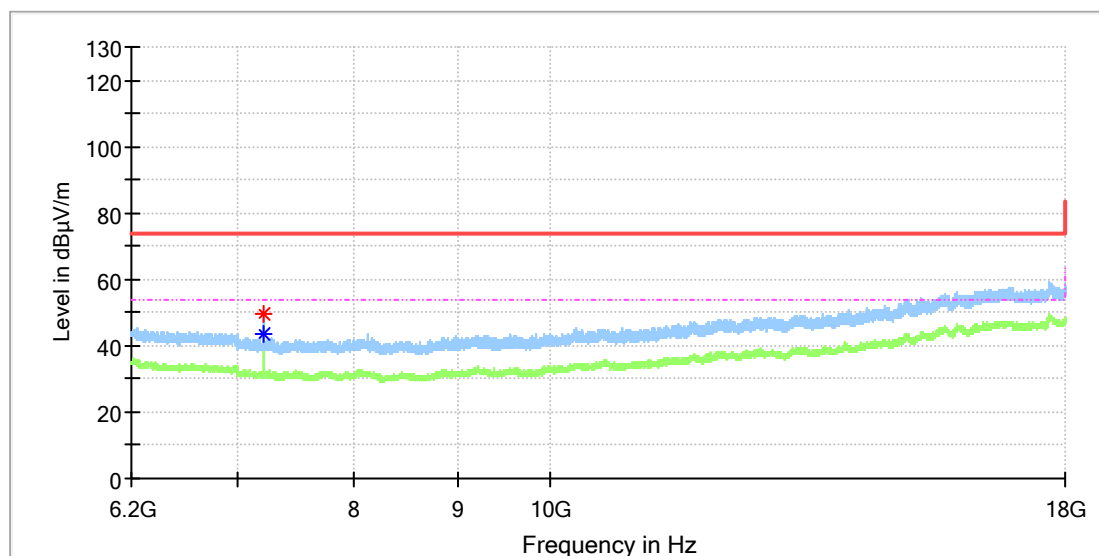


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4948.500000	50.87	---	74.00	23.13	150.0	V	125.0	11.8
4960.500000	---	39.70	54.00	14.30	150.0	V	343.0	11.8

EUT Information

EUT Name: Smart Air Purifier
Model: LA333
Test Mode: BLE_Low channel_H
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:51%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

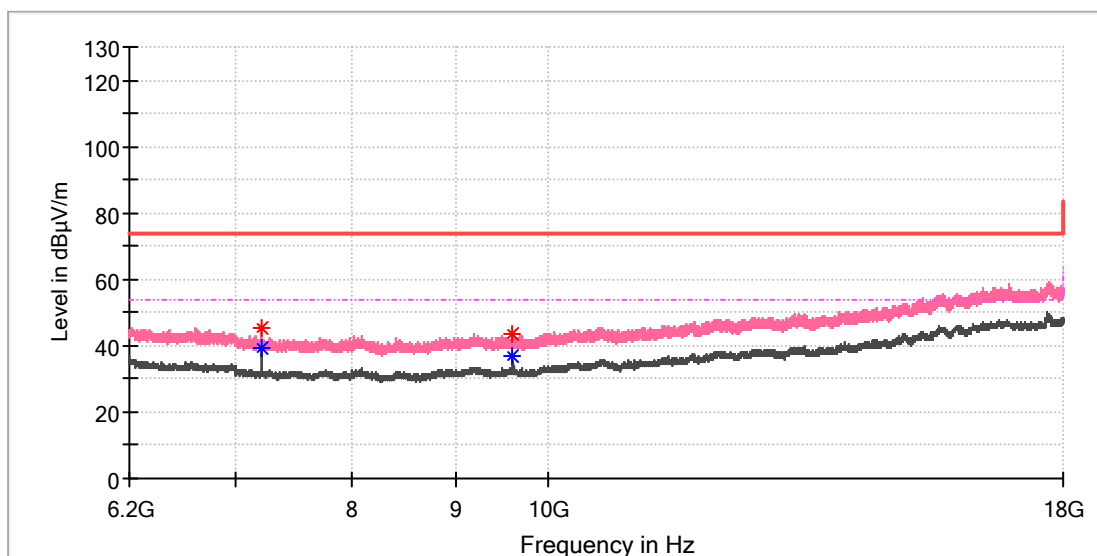


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7206.441667	49.48	---	74.00	24.52	150.0	H	205.0	8.8
7206.441667	---	43.44	54.00	10.56	150.0	H	205.0	8.8

EUT Information

EUT Name: Smart Air Purifier
Model: LA333
Test Mode: BLE_Low channel_V
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:51%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

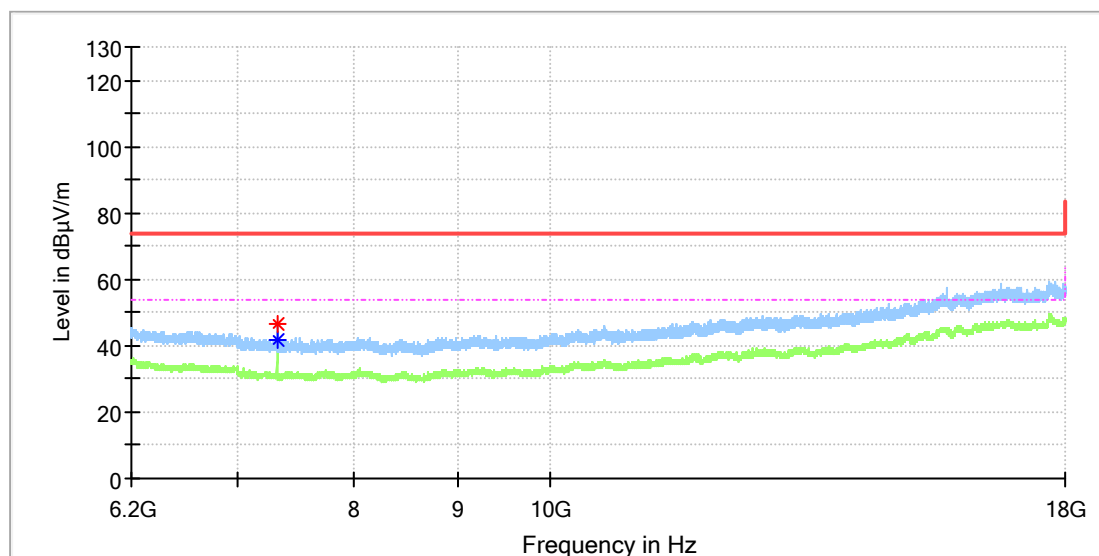


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7205.458333	---	39.53	54.00	14.47	150.0	V	238.0	8.8
7205.458333	45.40	---	74.00	28.60	150.0	V	238.0	8.8
9606.758333	43.72	---	74.00	30.28	150.0	V	309.0	10.4
9607.250000	---	36.74	54.00	17.26	150.0	V	309.0	10.4

EUT Information

EUT Name: Smart Air Purifier
Model: LA333
Test Mode: BLE_Middle channel_H
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:51%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

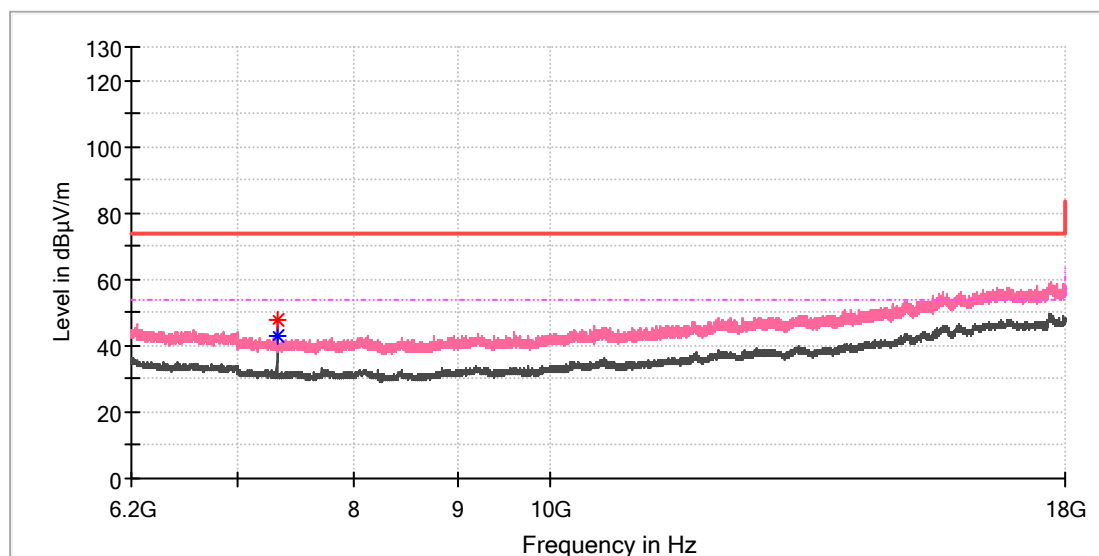


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7319.033333	---	41.83	54.00	12.17	150.0	H	193.0	8.2
7320.016667	46.62	---	74.00	27.38	150.0	H	193.0	8.2

EUT Information

EUT Name: Smart Air Purifier
Model: LA333
Test Mode: BLE_Middle channel_V
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:51%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

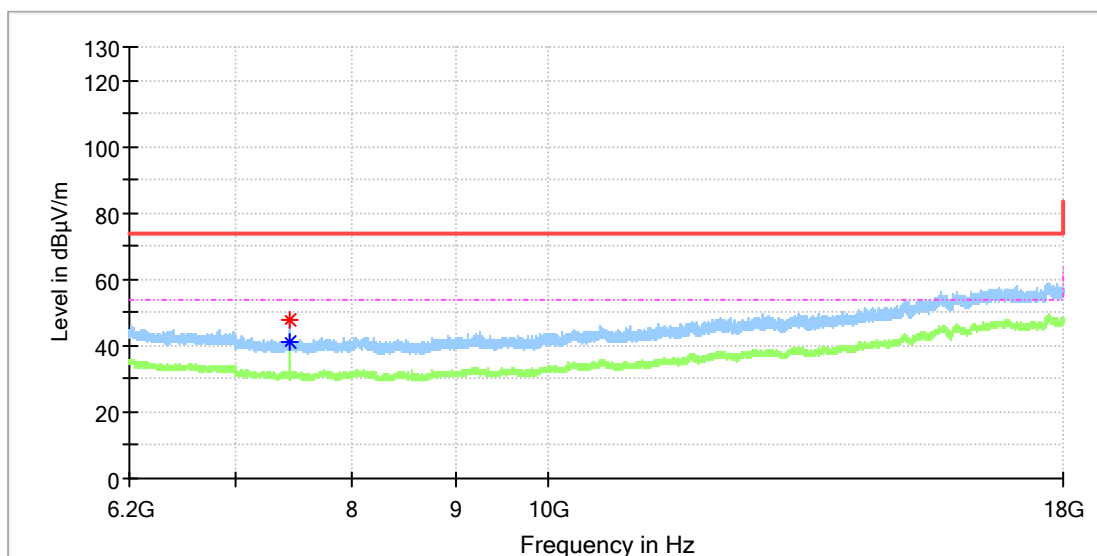


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7319.525000	---	42.91	54.00	11.09	100.0	V	327.0	8.2
7320.508333	47.91	---	74.00	26.09	100.0	V	327.0	8.2

EUT Information

EUT Name: Smart Air Purifier
Model: LA333
Test Mode: BLE_High channel_V
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:51%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

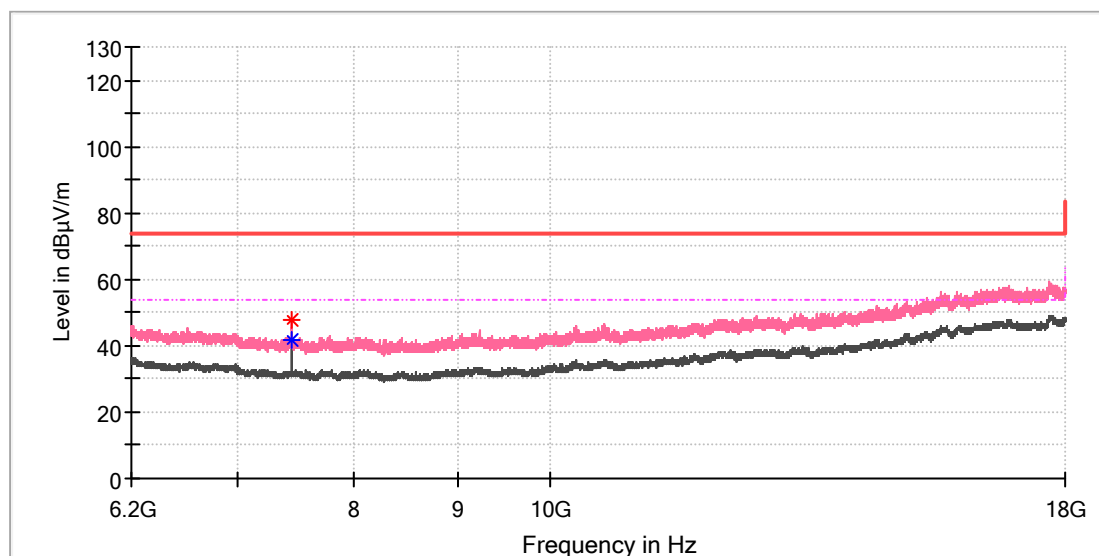


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7439.983333	47.56	---	74.00	26.44	150.0	H	327.0	8.4
7439.983333	---	40.99	54.00	13.01	150.0	H	327.0	8.4

EUT Information

EUT Name: Smart Air Purifier
Model: LA333
Test Mode: BLE_High channel_V
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:51%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

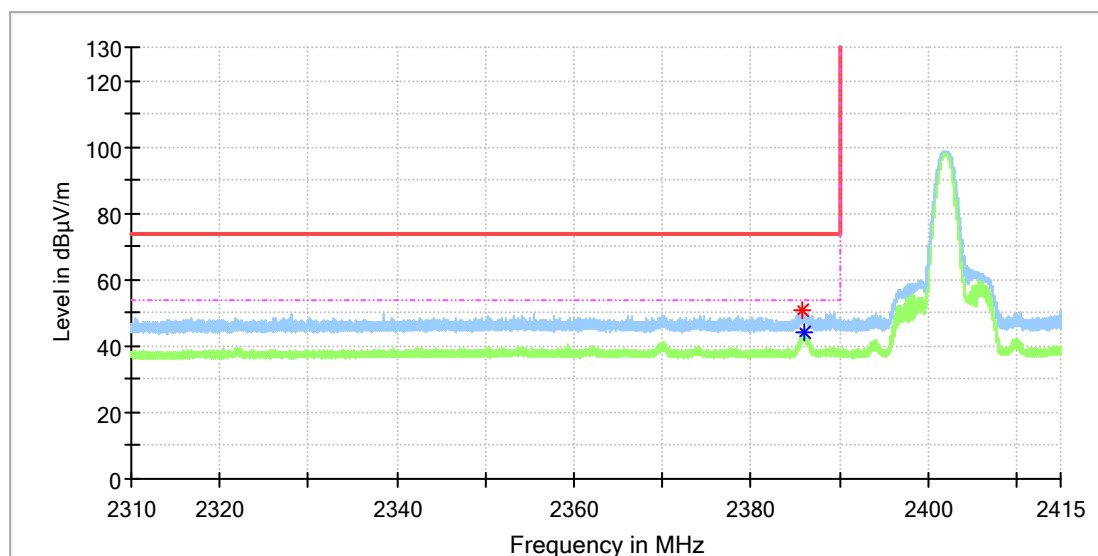
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7439.000000	---	41.98	54.00	12.02	150.0	V	325.0	8.4
7439.491667	47.62	---	74.00	26.38	150.0	V	325.0	8.4

Appendix B.6: Test Results of Radiated Emissions in Restricted Bands

BLE, 1Mbps (Model: LA503)

EUT Information

EUT Name: Smart Air Purifier
Model: LA503
Test Mode: BLE_Low channel_H
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:51%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

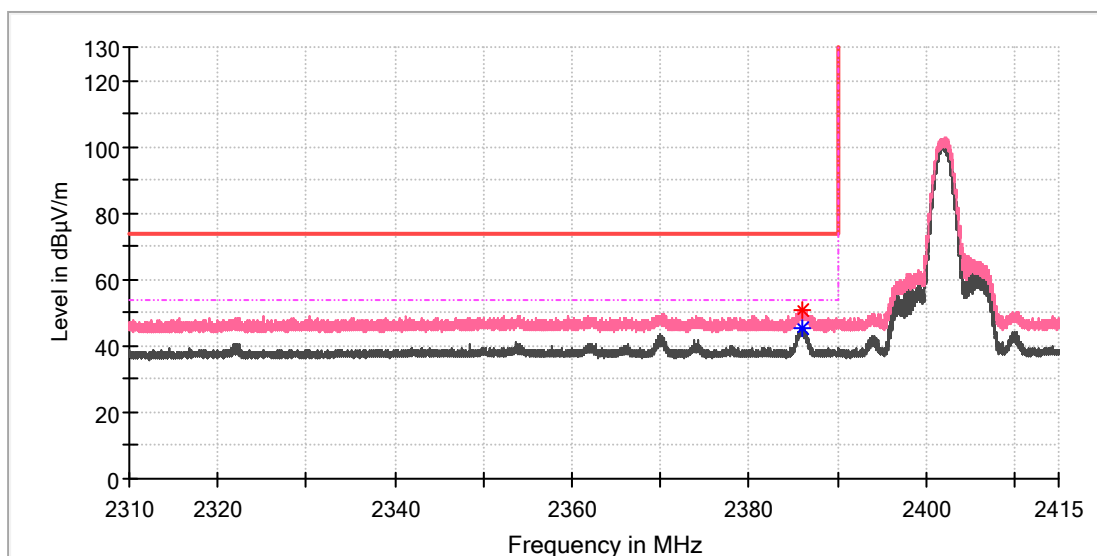


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2385.762750	50.49	---	74.00	23.51	150.0	H	0.0	7.0
2385.962250	---	44.01	54.00	9.99	150.0	H	12.0	7.0

EUT Information

EUT Name: Smart Air Purifier
Model: LA503
Test Mode: BLE_Low channel_V
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:51%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

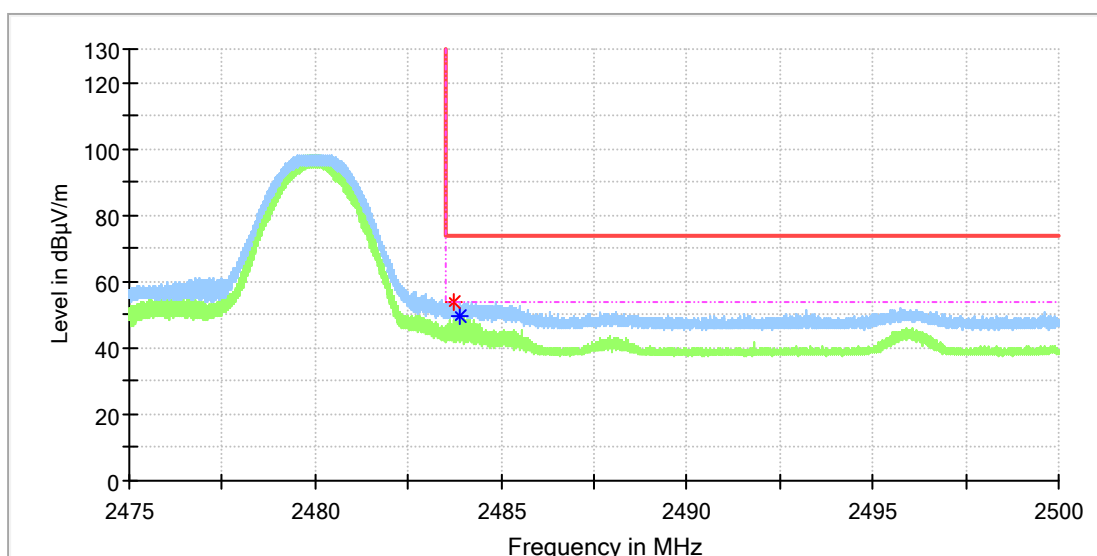


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2386.056750	---	45.61	54.00	8.39	150.0	V	332.0	7.0
2386.077750	50.70	---	74.00	23.30	150.0	V	332.0	7.0

EUT Information

EUT Name: Smart Air Purifier
Model: LA503
Test Mode: BLE_High channel_H
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:51%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

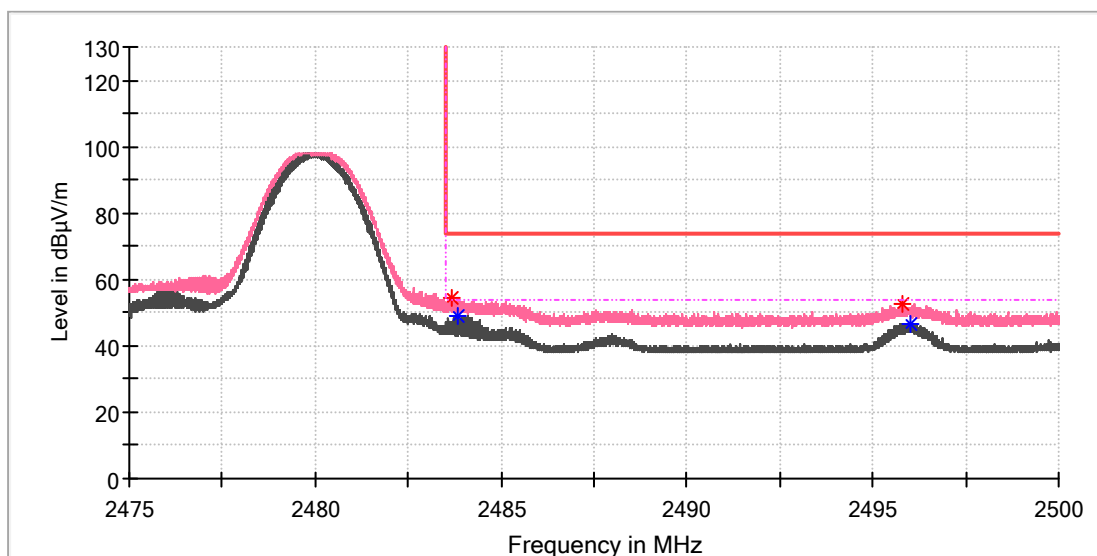


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.703750	53.74	---	74.00	20.26	100.0	H	32.0	7.4
2483.893750	---	49.56	54.00	4.44	100.0	H	10.0	7.4

EUT Information

EUT Name: Smart Air Purifier
Model: LA503
Test Mode: BLE_High channel_V
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:51%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



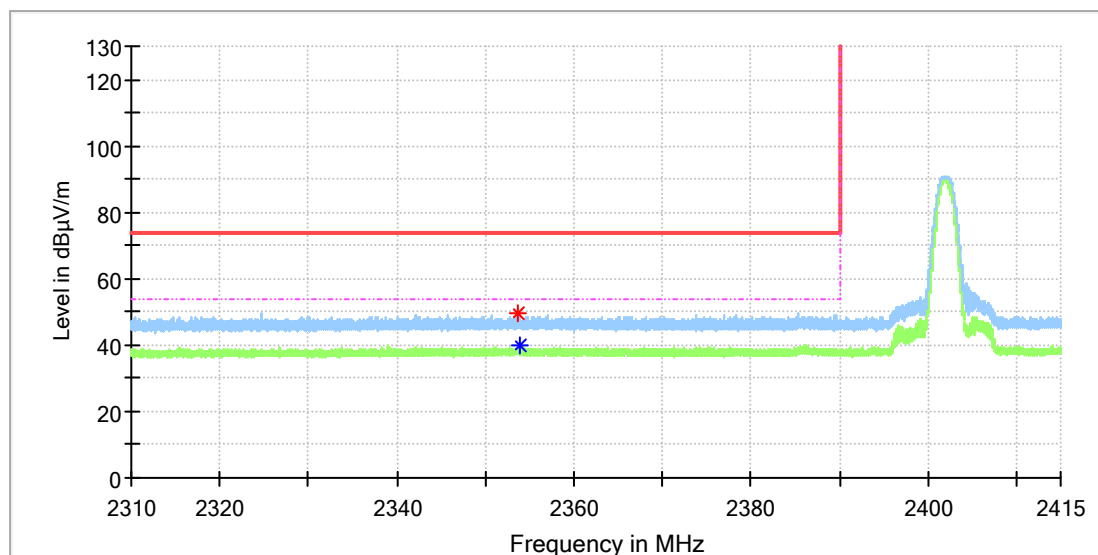
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.671250	54.49	---	74.00	19.51	150.0	V	350.0	7.4
2483.845000	---	49.23	54.00	4.77	150.0	V	350.0	7.4
2495.822500	52.41	---	74.00	21.59	150.0	V	294.0	7.4
2496.035000	---	46.68	54.00	7.32	150.0	V	316.0	7.4

BLE, 1Mbps (Model: LA333)

EUT Information

EUT Name:	Smart Air Purifier
Model:	LA333
Test Mode:	BLE_Low channel_H
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

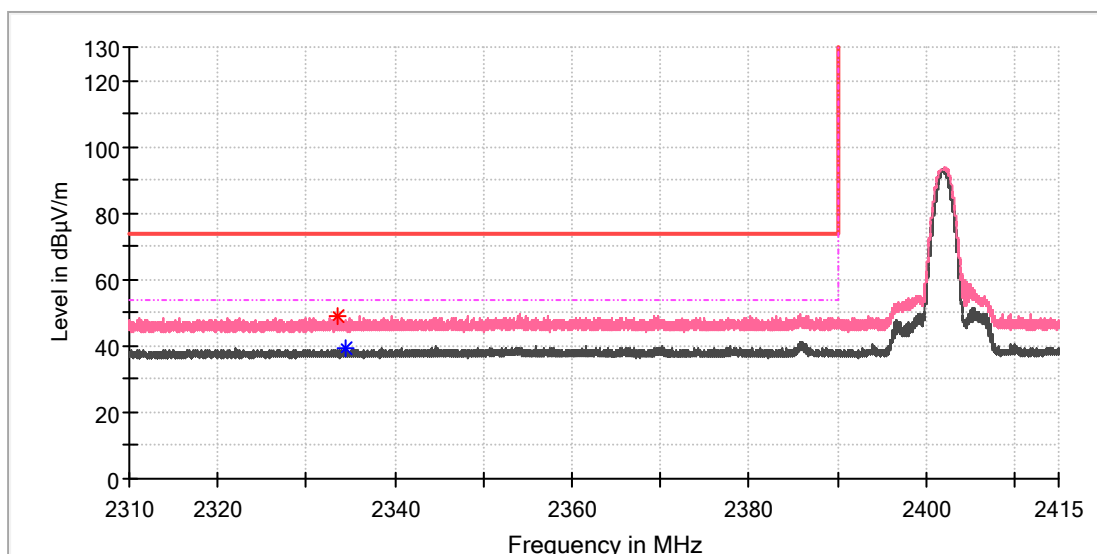


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2353.622250	49.37	---	74.00	24.63	150.0	H	103.0	6.9
2353.874250	---	39.93	54.00	14.07	150.0	H	11.0	6.9

EUT Information

EUT Name: Smart Air Purifier
Model: LA333
Test Mode: BLE_Low channel_V
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:51%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

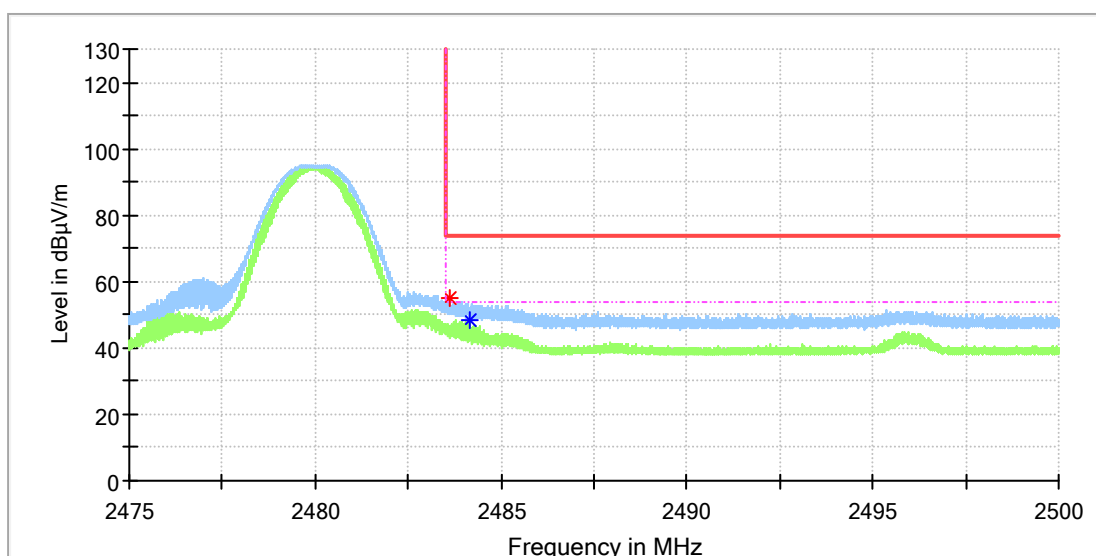


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2333.451750	48.96	---	74.00	25.04	150.0	V	0.0	6.7
2334.423000	---	39.11	54.00	14.89	150.0	V	212.0	6.8

EUT Information

EUT Name: Smart Air Purifier
Model: LA333
Test Mode: BLE_High channel_H
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:51%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

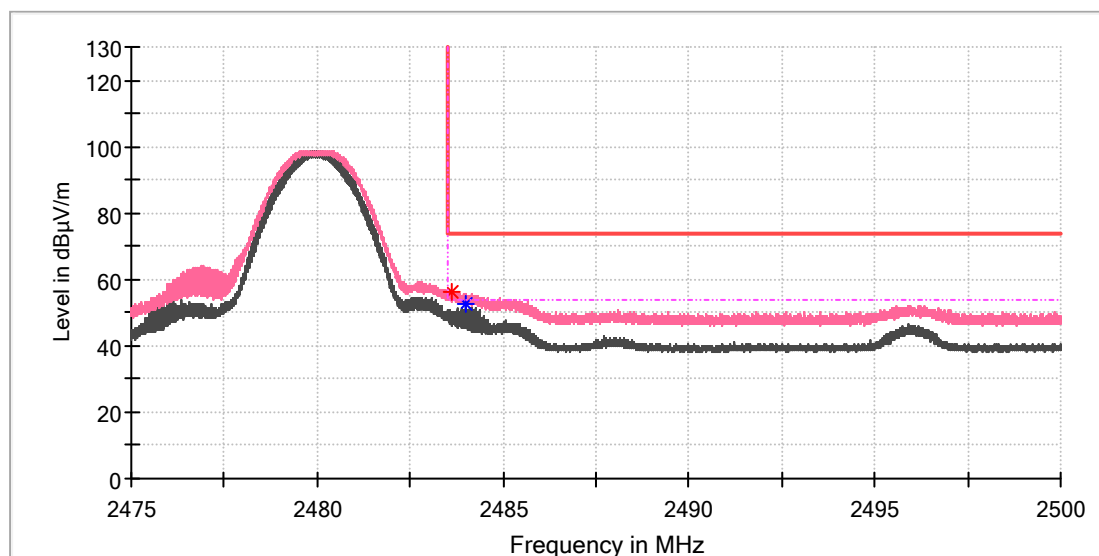


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.601250	54.77	---	74.00	19.23	150.0	H	267.0	7.4
2484.176250	---	48.47	54.00	5.53	150.0	H	236.0	7.4

EUT Information

EUT Name: Smart Air Purifier
Model: LA333
Test Mode: BLE_High channel_V
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:51%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



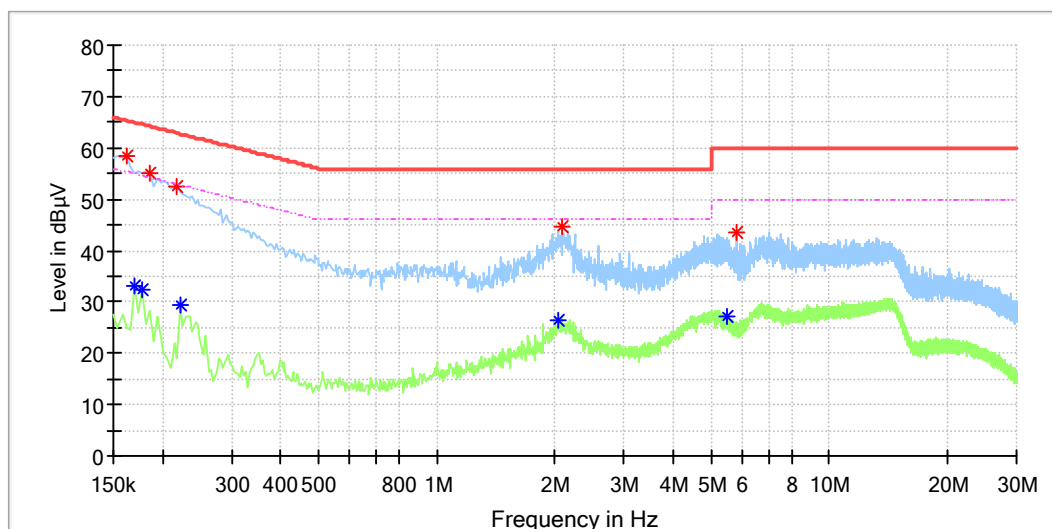
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.632500	56.00	---	74.00	18.00	150.0	V	222.0	7.4
2484.008750	---	52.47	54.00	1.53	150.0	V	222.0	7.4

Appendix B.7: Test Results of Conducted Emissions on AC Mains

EUT Information

EUT Name: Smart Air Purifier
Order No: 168325940
Model: LA503
Test mode: ON
Test Voltage: AC 120V/60Hz
Test By: Ouyang Wang
Review By: Gary Chen
Remark: SR2

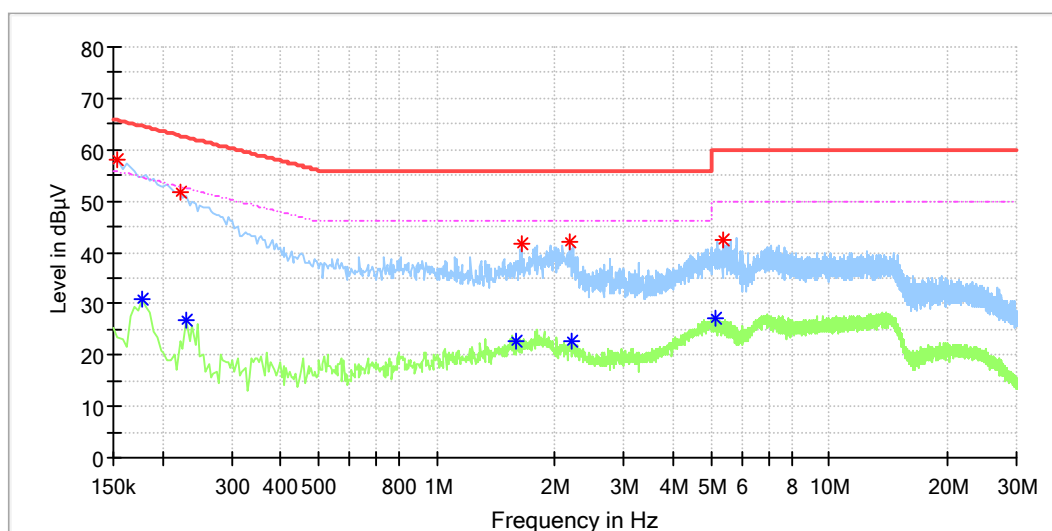


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.162000	58.28	---	65.36	7.08	L1	9.9
0.170000	---	33.01	54.96	21.95	L1	9.9
0.178000	---	32.45	54.58	22.13	L1	9.9
0.186000	55.20	---	64.21	9.02	L1	9.9
0.218000	52.41	---	62.90	10.48	L1	9.9
0.222000	---	29.40	52.74	23.34	L1	9.9
2.046000	---	26.49	46.00	19.51	L1	10.1
2.090000	44.57	---	56.00	11.43	L1	10.1
5.474000	---	27.33	50.00	22.67	L1	10.3
5.786000	43.62	---	60.00	16.38	L1	10.3

EUT Information

EUT Name: Smart Air Purifier
Order No: 168325940
Model: LA503
Test mode: ON
Test Voltage: AC 120V/60Hz
Test By: Ouyang Wang
Review By: Gary Chen
Remark: SR2

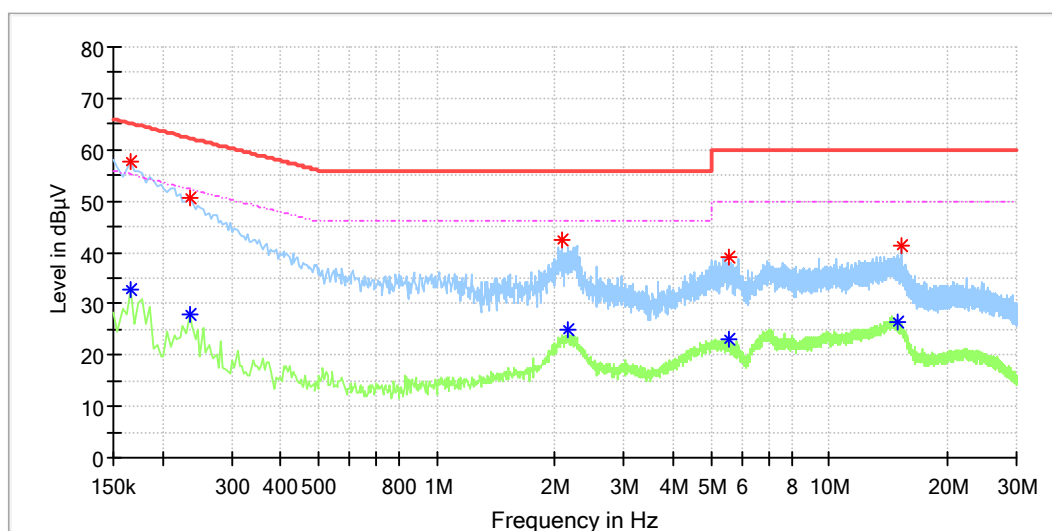


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.154000	57.95	---	65.78	7.84	N	9.8
0.178000	---	30.99	54.58	23.59	N	9.8
0.222000	51.87	---	62.74	10.87	N	9.8
0.230000	---	26.85	52.45	25.60	N	9.8
1.586000	---	22.80	46.00	23.20	N	9.8
1.646000	41.58	---	56.00	14.42	N	9.8
2.190000	42.01	---	56.00	13.99	N	9.9
2.202000	---	22.69	46.00	23.31	N	9.9
5.126000	---	26.99	50.00	23.01	N	9.9
5.342000	42.41	---	60.00	17.59	N	9.9

EUT Information

EUT Name: Smart Air Purifier
Order No: 168325940
Model: LA333
Test mode: ON
Test Voltage: AC 120V/60Hz
Test By: Ouyang Wang
Review By: Gary Chen
Remark: SR2

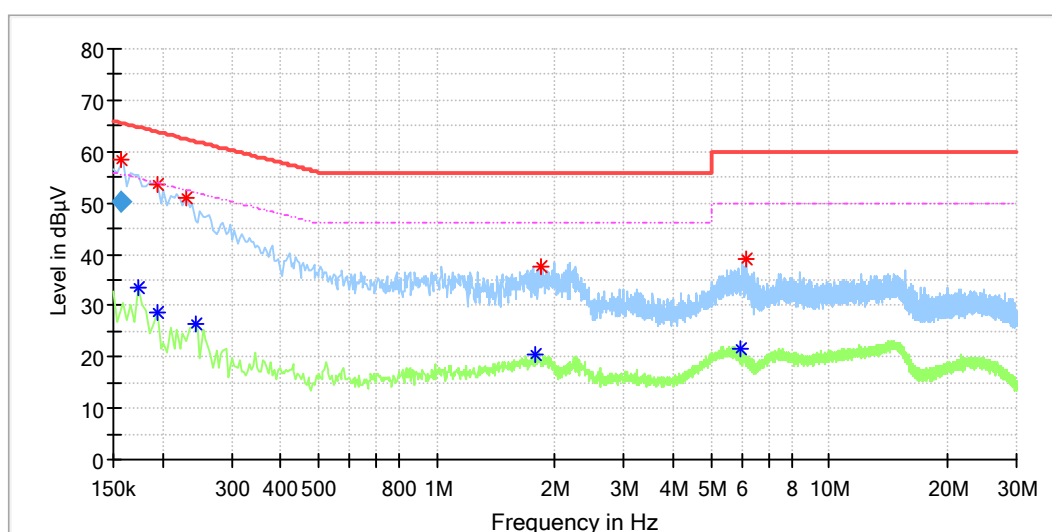


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.166000	---	32.68	55.16	22.47	L1	9.9
0.166000	57.65	---	65.16	7.51	L1	9.9
0.234000	50.56	---	62.31	11.74	L1	9.9
0.234000	---	28.06	52.31	24.24	L1	9.9
2.082000	42.37	---	56.00	13.63	L1	10.1
2.166000	---	24.95	46.00	21.05	L1	10.1
5.534000	---	23.02	50.00	26.98	L1	10.3
5.534000	39.02	---	60.00	20.98	L1	10.3
14.950000	---	26.37	50.00	23.63	L1	10.4
15.350000	41.16	---	60.00	18.84	L1	10.4

EUT Information

EUT Name: Smart Air Purifier
Order No: 168325940
Model: LA333
Test mode: ON
Test Voltage: AC 120V/60Hz
Test By: Ouyang Wang
Review By: Gary Chen
Remark: SR2



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.157500	58.58	---	65.57	6.99	N	9.8
0.174000	---	33.46	54.77	21.30	N	9.8
0.194000	53.51	---	63.86	10.35	N	9.8
0.194000	---	28.48	53.86	25.38	N	9.8
0.230000	51.04	---	62.45	11.41	N	9.8
0.242000	---	26.36	52.03	25.66	N	9.8
1.778000	---	20.43	46.00	25.57	N	9.8
1.846000	37.71	---	56.00	18.29	N	9.8
5.934000	---	21.43	50.00	28.57	N	9.9
6.174000	39.12	---	60.00	20.88	N	9.9

Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.157500	50.41	---	65.60	15.19	200.0	9.000	N	9.8