

Prüfbericht-Nr.: Test report no.:	CN264ONQ 003	Auftrags-Nr.: Order no.:	27231945	Seite 1 von 24 Page 1 of 24
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2026-04-27	
Auftraggeber: Client:	Shenzhen PICEA Robotics Co., Ltd. 101&201&301&401&501 of bldg.C6, bldg.C1&C2, No.5 of Bldg.C1&C2&C3, No.145 of Yuhu Road, Yulu Subdistrict, Yutang st., Guangming Dist., ShenZhen Guangdong P.R. China			
Prüfgegenstand: Test item:	Dyson R3 nurovi Spot+Scrub UV			
Bezeichnung / Typ-Nr.: Identification / Type no.:	RB05-B (Trademark: Dyson)			
Auftrags-Inhalt: Order content:	Test Report			
Prüfgrundlage: Test specification:	CFR Title 47 FCC Part 15: Subpart C Section 15.247 RSS-247 Issue 4 July 2025 RSS-Gen Issue 5 February 2021			
Wareneingangsdatum: Date of sample receipt:	2026-05-13	Please refer to Photo Document		
Prüfmuster-Nr.: Test sample no.:	A004277333-001~003 A004301666-001			
Prüfzeitraum: Testing period:	2026-05-22 - 2026-07-08			
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</u> <i>Bell Hu</i> Bell Hu	genehmigt von: authorized by:	<u>X</u> <i>Hardy</i> Hardy <u>Suo</u> Suo	
Datum: Date:	2026-07-10	Ausstellungsdatum: Issue date:	2026-07-10	
Stellung / Position:	Sachverständige(r)/Expert	Stellung / Position:	Sachverständige(r)/Expert	
Sonstiges / Other:	FCC ID: 2BS3VRB05B01 IC: 34846-RB05B01 HVIN: RB05-B This report is for Bluetooth LE and 2.4GHz Wi-Fi.			
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 above mentioned 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>				

Prüfbericht-Nr.: CN264ONQ 003
Test report no.:

Seite 2 von 24
Page 2 of 24

Anmerkungen
Remarks

1	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. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden. <i>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. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i>
2	Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben. Informationen zur Verifizierung der Authentizität unserer Dokumente erhalten Sie auf folgender Webseite: go.tuv.com/digital-signature <i>As contractually agreed, this document has been signed digitally only. TUV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TUV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged. For information on verifying the authenticity of our documents, please visit the following website: go.tuv.com/digital-signature</i>
3	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>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i>
4	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 115:2023, 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 bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. <i>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 115:2023, 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.</i>

Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 MAXIMUM CONDUCTED OUTPUT POWER

RESULT: Pass

5.1.3 CONDUCTED POWER SPECTRAL DENSITY

RESULT: Pass

5.1.4 6dB BANDWIDTH

RESULT: Pass

5.1.5 99% 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

Contents

1	GENERAL REMARKS	5
1.1	COMPLEMENTARY MATERIALS	5
2	TEST SITES	6
2.1	TEST FACILITIES.....	6
2.2	LIST OF TEST AND MEASUREMENT INSTRUMENTS	6
2.3	TRACEABILITY.....	7
2.4	CALIBRATION.....	7
2.5	MEASUREMENT UNCERTAINTY	7
2.6	LOCATION OF ORIGINAL DATA	8
2.7	STATUS OF FACILITY USED FOR TESTING	8
3	GENERAL PRODUCT INFORMATION.....	9
3.1	PRODUCT FUNCTION AND INTENDED USE.....	9
3.2	RATINGS AND SYSTEM DETAILS	9
3.3	INDEPENDENT OPERATION MODES.....	11
3.4	NOISE GENERATING AND NOISE SUPPRESSING PARTS.....	11
3.5	SUBMITTED DOCUMENTS	11
4	TEST SET-UP AND OPERATION MODES.....	12
4.1	PRINCIPLE OF CONFIGURATION SELECTION.....	12
4.2	TEST OPERATION AND TEST SOFTWARE.....	12
4.3	SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT	12
4.4	COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE	12
4.5	TEST SETUP DIAGRAM	13
5	TEST RESULTS.....	15
5.1	TRANSMITTER REQUIREMENT & TEST SUITES.....	15
5.1.1	<i>Antenna Requirement.....</i>	<i>15</i>
5.1.2	<i>Maximum Conducted Output Power.....</i>	<i>16</i>
5.1.3	<i>Conducted Power Spectral Density</i>	<i>18</i>
5.1.4	<i>6dB Bandwidth.....</i>	<i>19</i>
5.1.5	<i>99% Bandwidth.....</i>	<i>20</i>
5.1.6	<i>Conducted Spurious Emissions Measured in 100 kHz Bandwidth</i>	<i>21</i>
5.1.7	<i>Radiated Spurious Emission</i>	<i>22</i>
5.1.8	<i>Conducted Emission on AC Mains</i>	<i>23</i>
6	PHOTOGRAPHS OF THE TEST SET-UP	24
7	LIST OF TABLES	24

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 LE;

Appendix B: Test Results of 2.4GHz Wi-Fi;

Appendix C: Photographs of Test Set-up.

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, People's Republic of China

FCC Accreditation Designation No.: 694916

ISED wireless device testing laboratory: 25069

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radio Spectrum Testing (SRD-Tonscend 1)					
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. until
Wireless Connectivity Tester	R&S	CMW270	102505	2025-09-23	2026-09-22
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY60241175	2025-09-23	2026-09-22
MXG X-Series RF Vector Signal Generator	Keysight	N5182B	MY61250137	2025-09-23	2026-09-22
EXG X-Series Microwave Analog Signal Generator	Keysight	N5173B	MY61250141	2025-09-23	2026-09-22
DC power supply	Keysight	E3642A	MY61276100	2025-09-23	2026-09-22
Power Control Unit	Tonscend	JS0806-4ADC	N/A	2025-09-23	2026-09-22
Automation Control Unit	Tonscend	JS0806-2	21C8060396	2025-09-23	2026-09-22
Test Software	Tonscend	JS1120-3	N/A	N/A	N/A
Control PC	Lenovo	TianYi510S-071MB	Y LX23JMF	N/A	N/A
Shielding Room	Albatross	SR1	APC17151-SR1	2024-09-14	2027-09-13
Unwanted Emission Testing (TS9975)					
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. until
EMI Test Receiver	R&S	ESR 7	102021	2025-09-22	2026-09-21
Signal Analyzer	R&S	FSV 40	101439	2025-09-22	2026-09-21
System Controller Interface	R&S	SCI-100	S10010038	N/A	N/A
Filterbank	R&S	Wlan	100759	2025-09-22	2026-09-21
OSP	R&S	OSP 120	102040	N/A	N/A
Pre-amplifier	R&S	SCU08F1	08320031	2025-09-22	2026-09-21
Amplifier	R&S	SCU-18F	180070	2025-09-22	2026-09-21
Amplifier	R&S	SCU40A	100475	2025-09-22	2026-09-21
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	2024-09-28	2026-09-27

Prüfbericht - Nr.: CN264ONQ 003
Test Report No.:

Seite 7 von 24

Page 7 of 24

Double-Ridged Antenna (1-18 GHz)	ETS-LINDGREN	3117	00218717	2024-09-28	2026-09-27
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	2024-09-28	2026-09-27
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	2024-09-28	2026-09-27
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	2024-09-14	2027-09-13

Conducted Emission				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
EMI Test Receiver	R&S	ESR3	102680	2027-02-03
Artificial Mains Network	R&S	ENV216	102333	2026-07-18
Artificial Mains Network	R&S	ENV216	101445	2027-02-03
EMC32 Test Software	R&S	EMC32(Ver.10.60.20)	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.

Table 2: Measurement Uncertainty

Parameter	Uncertainty (k=2)
RF output power, conducted	± 0.99 dB
Occupied Channel Bandwidth	± 2.08 %
RF power density, conducted	± 0.99 dB
Unwanted Emissions, conducted	± 0.89 dB
All emissions, radiated	± 4.17 dB
Conducted Emission, (9kHz to 150kHz)/(150kHz to 30MHz)	± 3.24 dB / ± 3.24 dB

Prüfbericht - Nr.: CN264ONQ 003
*Test Report No.:*Seite 8 von 24
Page 8 of 24

2.6 Location of Original Data

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

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at 2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, 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 products are Robot Vacuum Cleaner & Docking Station. Robot Vacuum Cleaner supports Bluetooth dual mode, 2.4GHz Wi-Fi and 5GHz Wi-Fi wireless technologies.

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

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment:	Dyson R3 nurovi Spot+Scrub UV (Robot Vacuum Cleaner)
Type Designation:	RB05-B
Trademark:	Dyson
FCC ID:	2BS3VRB05B01
IC:	34846-RB05B01
HVIN:	RB05-B
Operating Voltage:	Internal battery operated
Testing Voltage:	Fully charged battery or AC 120V, 60Hz
Operating Temperature Range:	+5 °C ~ +40 °C
Docking Station:	Model: RB05-B-DOCK Input: AC 110-127V, 50-60Hz Output: 20V, 1.8A
Technical Specification of Bluetooth LE	
Operating Frequency:	2402-2480MHz
Type of Modulation:	GFSK
Channel Number:	40 channels
Data Rate:	1Mbps
Channel Separation:	2 MHz
Antenna Type:	Integral Antenna
Antenna Gain:	Max. 2.52 dBi (Provided by the Client)
Technical Specification of 2.4GHz Wi-Fi	
Operating Frequency:	2412 - 2462MHz for 802.11b/g/n(HT20) 2422 - 2452MHz for 802.11n(HT40)
Type of Modulation:	DSSS(DBPSK/DQPSK/CCK) OFDM(BPSK/QPSK/16QAM/64QAM)
Data Rate:	1/2/5.5/11 Mbps for 802.11b 6/9/12/18/24/36/48/54 Mbps for 802.11g MCS0 ~ MCS7 for 802.11n(HT20)/n(HT40)
Channel Number:	11 channels for 802.11b/g/n(HT20) 7 channels for 802.11n(HT40)
Channel Separation:	5 MHz
Antenna Type:	Integral Antenna
Antenna Number:	1Tx1Rx
Antenna Gain:	Max. 2.52 dBi (Provided by the Client)

Prüfbericht - Nr.: CN264ONQ 003
Test Report No.:

Seite 10 von 24

Page 10 of 24

Note: The correctness of all data provided by customer in the test report is ensured and responsible of the customer. Any misjudgment of the test results caused by the use of incorrect data provided by customer shall be borne by the customer.

Table 4: RF Channel and Frequency of Bluetooth LE

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

Test frequencies are lowest channel: 2402 MHz, middle channel: 2440 MHz and highest channel: 2480 MHz for Bluetooth LE

Table 5: RF Channel and Frequency of 2.4GHz Wi-Fi

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	/

Test frequencies are lowest channel: 2412 MHz, middle channel: 2437 MHz and highest channel: 2462 MHz for 802.11b/g/n(HT20)

Test frequencies are lowest channel: 2422 MHz, middle channel: 2437 MHz and highest channel: 2452 MHz for 802.11n(HT40)

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Bluetooth wireless transmitting mode
 - 1) Low Channel
 - 2) Middle Channel
 - 3) High Channel
- B. On, 2.4GHz Wi-Fi wireless transmitting mode
 - 1) Low Channel
 - 2) Middle Channel
 - 3) High Channel
- C. On, Charging
- D. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- | | |
|-------------------------|----------------------------------|
| - Application Form | - User Manual |
| - Operation Description | - FCC/IC Label and Location Info |

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 tests were performed according to the procedures in ANSI C63.10:2020, ANSI C63.10:2020+ Cor. 1:2023+ C63.10a:2024.

According to clause 3.1, all tests were performed on model *RB05-B* in this report.

Power Level Code Configuration: BLE: Default, 802.11b: 40, 802.11g/n(HT20): 50, 802.11n(HT40): 47

4.3 Special Accessories and Auxiliary Equipment

Table 6: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N
Laptop	Lenovo	T480	PF-16A6N8

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 1GHz)

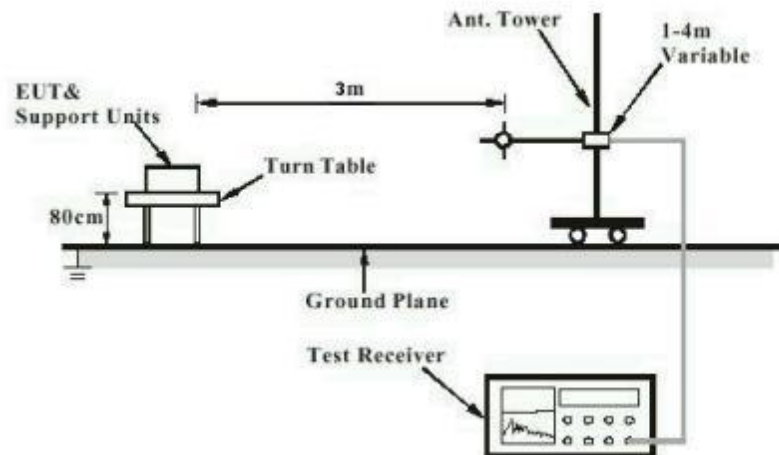


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

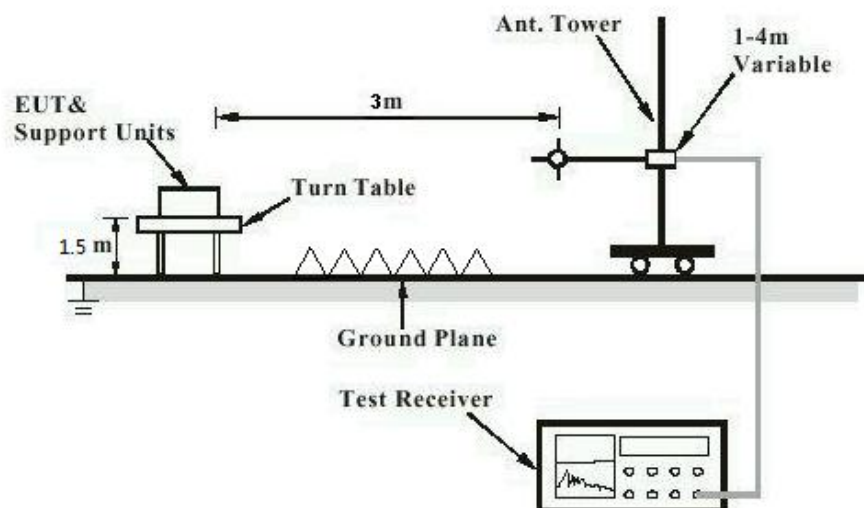


Diagram of Measurement Configuration for Mains Conduction Measurement

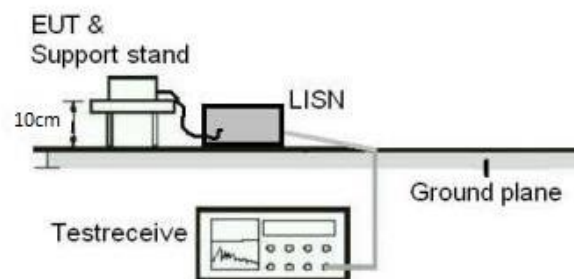
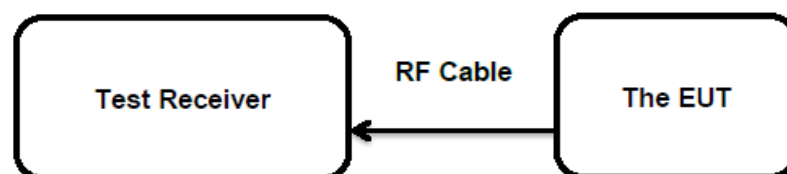


Diagram of Measurement Configuration for Conducted Transmitter Measurement



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 6.8

According to the manufacturer declared, the EUT has Integral Antenna, permanent attachment and no consideration of replacement, refer to section 3.2 for details.

Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

Prüfbericht - Nr.: CN264ONQ 003

Test Report No.:

Seite 16 von 24

Page 16 of 24

5.1.2 Maximum Conducted Output Power

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

Test standard	: FCC Part 15.247(b)(3) RSS-247 Clause 6.3.2
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+ Cor. 1:2023+ C63.10a:2024
Limits	: 1.0 Watts
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2026-05-26 to 2026-07-07
Input voltage	: Fully charged battery
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: 24.8 °C
Relative humidity	: 55 %
Atmospheric pressure	: 101 kPa

For details refer to following test result.

Table 7: Test Result of Maximum Conducted Output Power, Bluetooth LE

Test Mode	Test Channel (MHz)	Measured Peak Power		Limit (W)
		(dBm)	(W)	
Bluetooth LE (1 Mbps)	2402	6.13	0.0041	< 1.0
	2440	5.95	0.0039	
	2480	4.91	0.0031	
Max. Measured Value		6.13	0.0041	

Max. e.i.r.p.=6.13dBm+2.52dBi=8.65dBm, which is less than 36dBm=4W.

Table 8: Test Result of Maximum Conducted Output Power, 2.4GHz Wi-Fi

Test Mode	Data Rate	Test Channel (MHz)	Measured Peak Power		Limit (W)
			(dBm)	(W)	
802.11b	1 Mbps	2412	17.25	0.0531	< 1.0
		2437	16.49	0.0446	
		2462	15.96	0.0394	
802.11g	6 Mbps	2412	20.97	0.1250	
		2437	20.39	0.1094	
		2462	19.88	0.0973	
802.11n (HT20)	MCS0	2412	21.22	0.1324	
		2437	20.63	0.1156	
		2462	20.06	0.1014	
802.11n (HT40)	MCS0	2422	19.56	0.0904	
		2437	20.54	0.1132	
		2452	20.21	0.1050	
Maximum Measured Value			21.22	0.1324	

Max. e.i.r.p.=21.22dBm+2.52dBi=23.74dBm, which is less than 36dBm=4W.

Note:

- 1) The cable loss is taken into account in results.
- 2) Antenna gain(G): 2.52dBi for Bluetooth LE & 2.4GHz Wi-Fi
e.i.r.p.=P_(Conducted power)+ G, which is far below the 4 W

Prüfbericht - Nr.: CN264ONQ 003

Test Report No.:

Seite 18 von 24

Page 18 of 24

5.1.3 Conducted Power Spectral Density

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

Test standard	: FCC Part 15.247(e) RSS-247 Clause 6.3.1
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+ Cor. 1:2023+ C63.10a:2024
Limits	: < 8 dBm / 3kHz
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2026-05-26 to 2026-07-07
Input voltage	: Fully charged battery
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: 24.8 °C
Relative humidity	: 55 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A, B.

Prüfbericht - Nr.: CN264ONQ 003
Test Report No.:Seite 19 von 24
Page 19 of 24

5.1.4 6dB Bandwidth

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

Test standard	: FCC Part 15.247(a)(2) RSS-247 Clause 6.3.1
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+ Cor. 1:2023+ C63.10a:2024
Limits	: > 500 kHz
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2026-05-26 to 2026-07-08
Input voltage	: Fully charged battery
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: 24.8 °C
Relative humidity	: 55 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A, B.

Prüfbericht - Nr.: CN264ONQ 003

Test Report No.:

Seite 20 von 24

Page 20 of 24

5.1.5 99% Bandwidth**RESULT:****Pass****Test Specification**

Test standard	: FCC Part 15.247(a) RSS-Gen Clause 6.7
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+ Cor. 1:2023+ C63.10a:2024
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2026-05-26 to 2026-07-07
Input voltage	: Fully charged battery
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: 24.8 °C
Relative humidity	: 55 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A, B.

Prüfbericht - Nr.: CN264ONQ 003

Test Report No.:

Seite 21 von 24

Page 21 of 24

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 6.6
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+ Cor. 1:2023+ C63.10a:2024
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	: 2026-05-26 to 2026-07-07
Input voltage	: Fully charged battery
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: 24.8 °C
Relative humidity	: 55 %
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 A, B.

Prüfbericht - Nr.: CN264ONQ 003

Test Report No.:

Seite 22 von 24

Page 22 of 24

5.1.7 Radiated Spurious Emission

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

Test standard	: FCC Part 15.247(d) & FCC Part 15.205 RSS-247 Clause 2.4
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+ Cor. 1:2023+ C63.10a:2024
Limits	: Refer to 15.209(a) of FCC part 15.247(d) RSS-Gen Section 8.9 & 8.10
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 2026-05-22 to 2026-07-04
Input voltage	: Fully charged battery
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: Refer to test result
Relative humidity	: Refer to test result
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 A, B.

Prüfbericht - Nr.: CN264ONQ 003

Test Report No.:

Seite 23 von 24

Page 23 of 24

5.1.8 Conducted Emission on AC Mains

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

Test standard	: FCC Part 15.207 RSS-Gen Section 8.8
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+ Cor. 1:2023+ C63.10a:2024
Frequency range	: 0.15 – 30MHz
Classification	: Class B
Limits	: FCC Part 15.207(a) RSS-Gen Table 4
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2026-06-29 to 2026-07-07
Input voltage	: AC 120V, 60Hz
Operation mode	: C
Ambient temperature	: Refer to test result
Relative humidity	: Refer to test result
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A, B.

6 Photographs of the Test Set-Up

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

7 List of Tables

Table 1: List of Test and Measurement Equipment	6
Table 2: Measurement Uncertainty.....	7
Table 3: Technical Specification of EUT	9
Table 4: RF Channel and Frequency of Bluetooth LE.....	10
Table 5: RF Channel and Frequency of 2.4GHz Wi-Fi.....	10
Table 6: List of Accessories and Auxiliary Equipment.....	12
Table 7: Test Result of Maximum Conducted Output Power, Bluetooth LE	17
Table 8: Test Result of Maximum Conducted Output Power, 2.4GHz Wi-Fi.....	17

Appendix A: Test Results of Bluetooth LE

APPENDIX A: TEST RESULTS OF BLUETOOTH LE	1
APPENDIX A.1: TEST RESULTS OF 6dB BANDWIDTH	2
Test Result.....	2
Test Graphs.....	3
APPENDIX A.2: TEST RESULTS OF 99% BANDWIDTH	4
Test Result.....	4
Test Graphs.....	5
APPENDIX A.3: TEST RESULTS OF CONDUCTED POWER SPECTRAL DENSITY	6
Test Result.....	6
Test Graphs.....	7
APPENDIX A.4: TEST RESULTS OF BAND EDGE MEASUREMENTS	8
Test Result.....	8
Test Graphs.....	8
APPENDIX A.5: TEST RESULTS OF CONDUCTED SPURIOUS EMISSION	9
Test Result.....	9
Test Graphs.....	10
APPENDIX A.6: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS.....	13
30MHz - 1GHz.....	13
1GHz - 18GHz.....	15
APPENDIX A.7: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS.....	19
APPENDIX A.8: TEST RESULTS OF CONDUCTED EMISSION ON AC MAINS.....	23

Appendix A.1: Test Results of 6dB Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.504	2401.744	2402.248	0.5	PASS
		2440	0.508	2439.740	2440.248	0.5	PASS
		2480	0.504	2479.740	2480.244	0.5	PASS

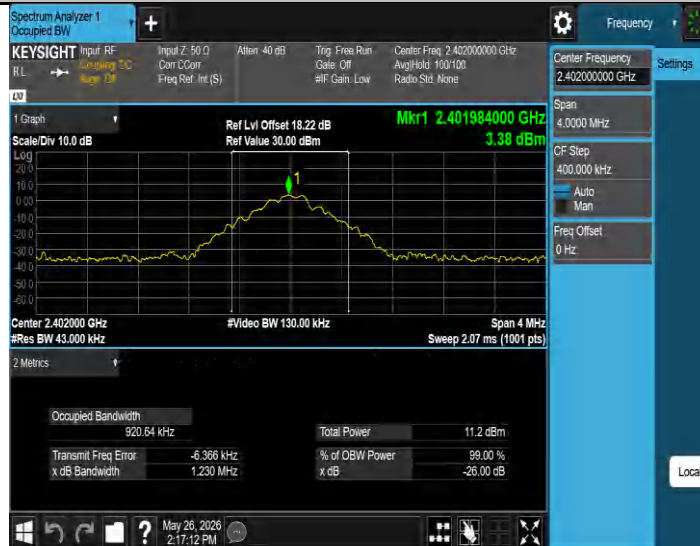
Appendix A.2: Test Results of 99% Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.92064	2401.5333	2402.4540	---	PASS
		2440	0.92140	2439.5330	2440.4544	---	PASS
		2480	0.93985	2479.5241	2480.4640	---	PASS

Test Graphs

BLE_1M_Ant1_2402



Appendix A.3: Test Results of Conducted Power Spectral Density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-3.67	≤8.00	PASS
		2440	-4.03	≤8.00	PASS
		2480	-5.19	≤8.00	PASS

Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



Appendix A.4: Test Results of Band Edge Measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	5.68	-40.33	≤-14.32	PASS
		High	2480	4.21	-41.98	≤-15.79	PASS

Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480

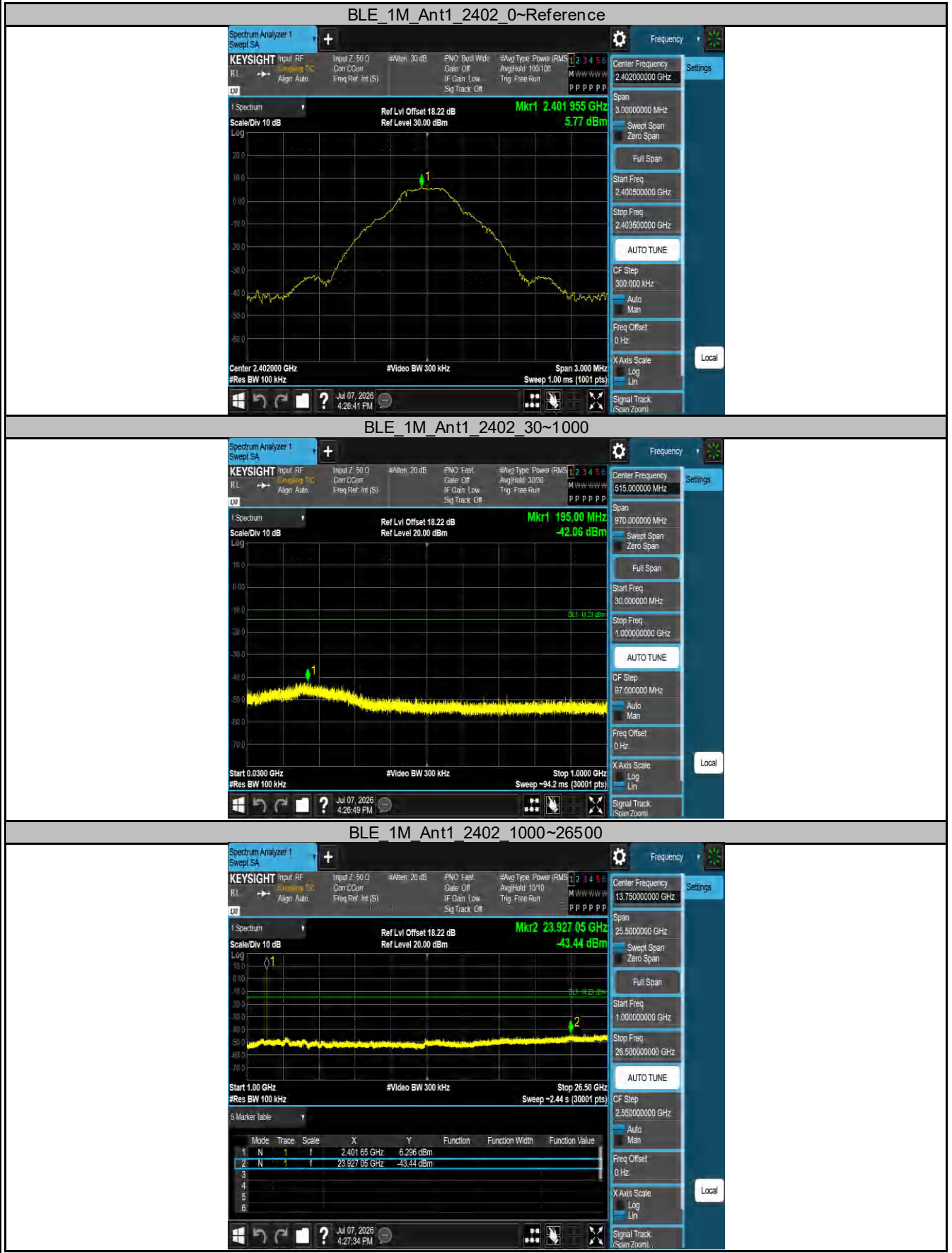


Appendix A.5: Test Results of Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	5.77	5.77	---	PASS
			30~1000	5.77	-42.06	≤-14.23	PASS
			1000~26500	5.77	-43.44	≤-14.23	PASS
		2440	Reference	5.41	5.41	---	PASS
			30~1000	5.41	-42.11	≤-14.59	PASS
			1000~26500	5.41	-43.2	≤-14.59	PASS
		2480	Reference	4.20	4.20	---	PASS
			30~1000	4.20	-41.88	≤-15.8	PASS
			1000~26500	4.20	-43.52	≤-15.8	PASS

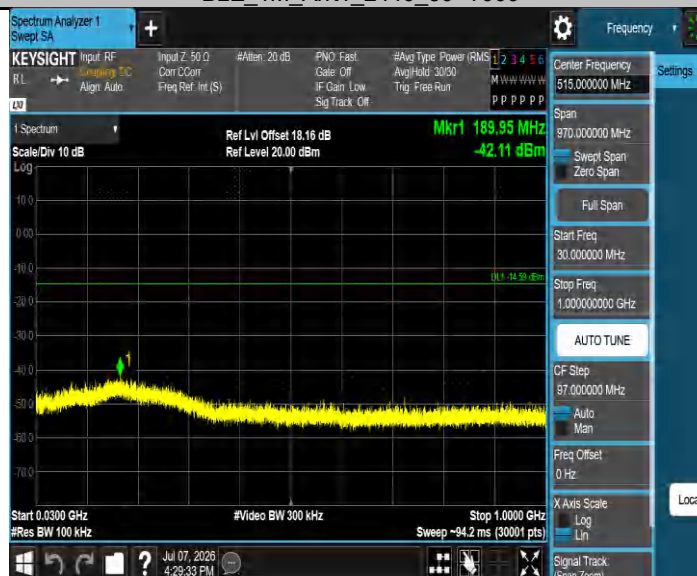
Test Graphs



BLE 1M Ant1 2440 0~Reference



BLE 1M Ant1 2440 30~1000



BLE 1M Ant1 2440 1000~26500



BLE 1M Ant1 2480 0~Reference



BLE 1M Ant1 2480 30~1000



BLE 1M Ant1 2480 1000~26500



Appendix A.6: Test Results of Radiated Spurious Emissions

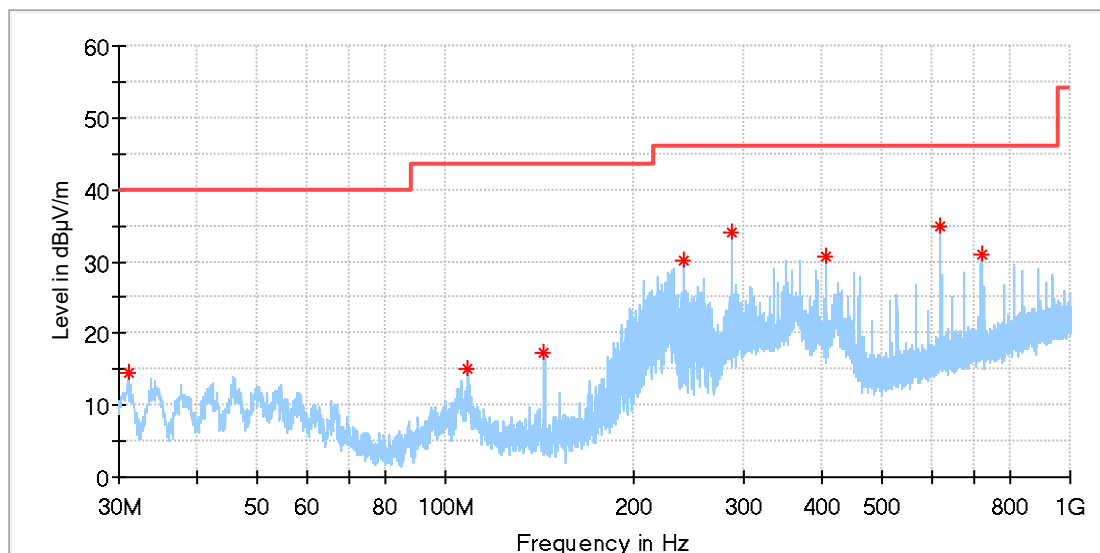
Note:

- 1) This testing was carried out on different modulations, but 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.

30MHz - 1GHz

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	RB05-B
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	27231945/A004277333-001
Test Voltage:	Battery
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

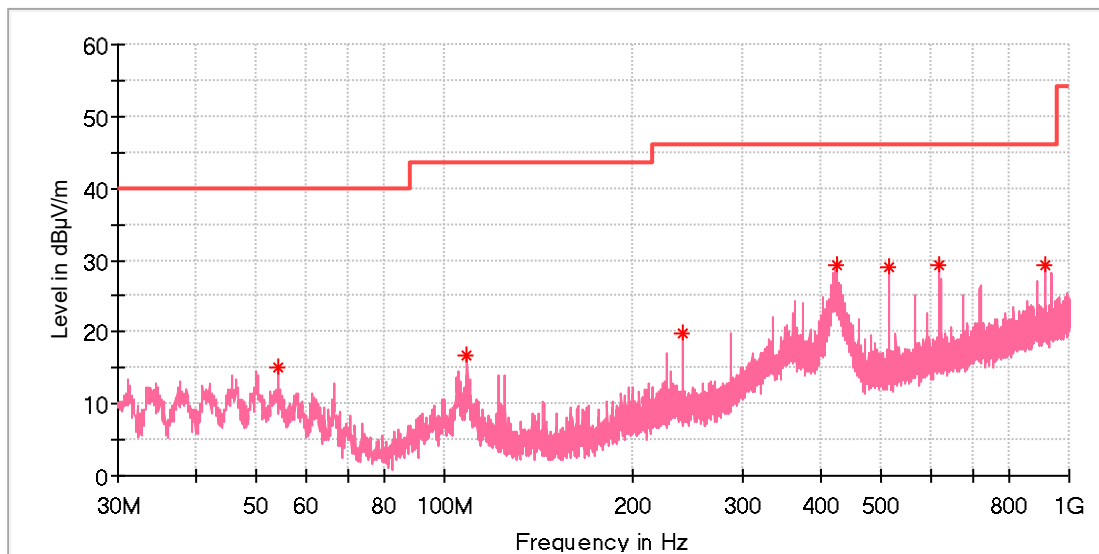
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
31.023889	14.46	40.00	25.54	100.0	H	187.0	-22.9
108.785556	15.16	43.50	28.34	100.0	H	259.0	-19.1
143.975000	17.34	43.50	26.16	100.0	H	71.0	-22.4
240.005000	30.12	46.00	15.88	100.0	H	33.0	-17.7
288.020000	34.18	46.00	11.82	100.0	H	13.0	-16.6
405.012778	30.79	46.00	15.21	100.0	H	210.0	-13.6
621.053333	34.94	46.00	11.06	100.0	H	79.0	-9.3
720.047222	30.96	46.00	15.04	100.0	H	0.0	-7.6

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

EUT Information

EUT Name: Robot Vacuum Cleaner
Model: RB05-B
Test Mode: BLE 1M_Mid channel
Order No/Sample No: 27231945/A004277333-001
Test Voltage: Battery
Remark: Temp 23.2°C Humi:51%
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)
54.142222	14.97	40.00	25.03	100.0	V	218.0	-18.5
108.731667	16.77	43.50	26.73	100.0	V	108.0	-19.1
240.005000	19.90	46.00	26.10	100.0	V	178.0	-17.7
424.358889	29.37	46.00	16.63	100.0	V	162.0	-13.2
513.006111	29.07	46.00	16.93	100.0	V	72.0	-11.6
621.053333	29.22	46.00	16.78	100.0	V	171.0	-9.3
912.053333	29.18	46.00	16.82	100.0	V	280.0	-4.7

Final Result

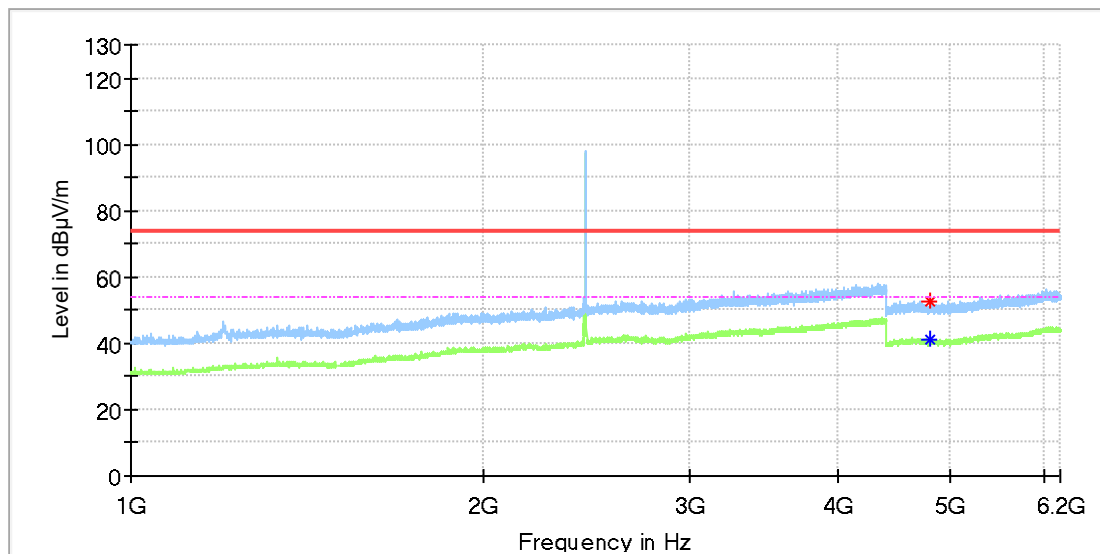
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

1GHz - 18GHz

Note: The highest waveform in the figure is Bluetooth Fundamental.

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	RB05-B
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	27231945/A004277333-001
Test Voltage:	Battery
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

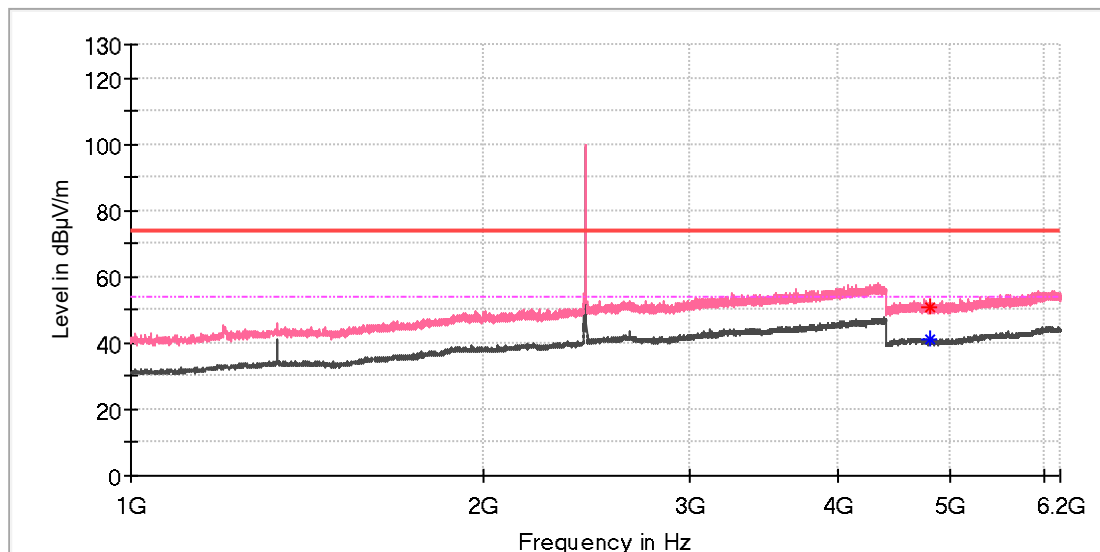
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4801.500000	---	40.85	54.00	13.15	150.0	H	0.0	13.3
4808.000000	52.43	---	74.00	21.57	150.0	H	147.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.5-94.5	93.5-94.5	93.5-94.5	93.5-94.5	93.5-94.5	93.5-94.5		93.5-94.5	

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	RB05-B
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	27231945/A004277333-001
Test Voltage:	Battery
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

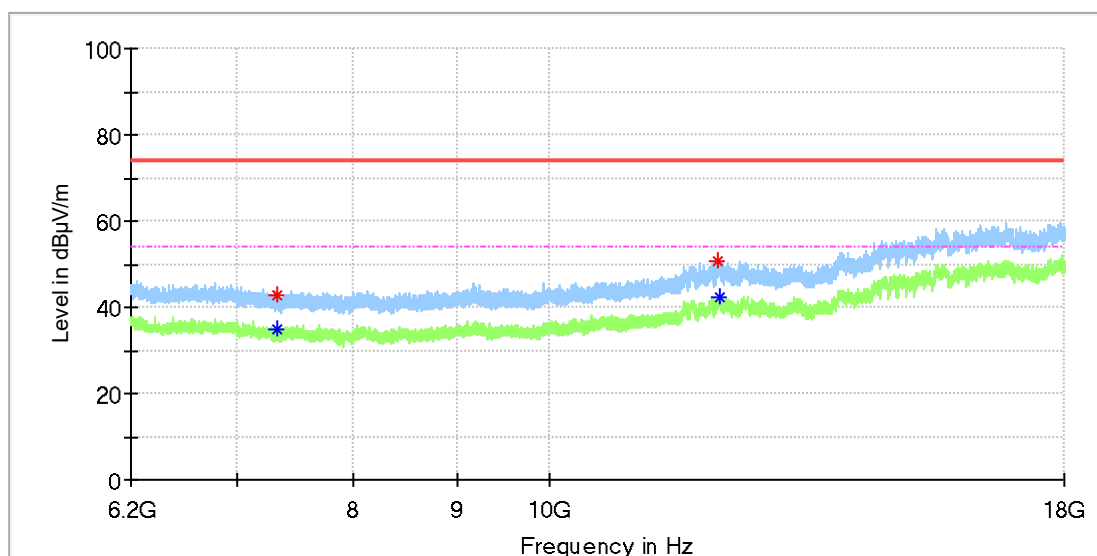
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4799.000000	---	40.96	54.00	13.04	150.0	V	222.0	13.3
4799.500000	50.85	---	74.00	23.15	150.0	V	234.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.750000	93.750000	93.750000	93.750000	93.750000	93.750000		93.750000	93.750000

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	RB05-B
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	27231945/A004277333-001
Test Voltage:	Battery
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

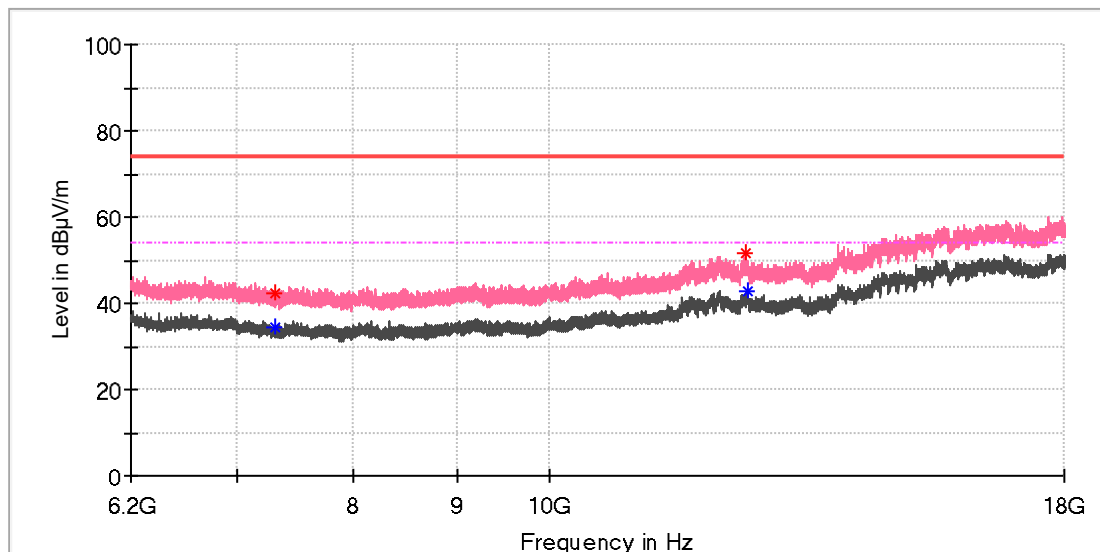
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7320.508333	---	35.04	54.00	18.96	150.0	H	201.0	8.2
7321.491667	42.85	---	74.00	31.15	150.0	H	190.0	8.2
1209.833333	50.57	---	74.00	23.43	150.0	H	23.0	15.7
12137.858333	---	42.27	54.00	11.73	150.0	H	112.0	16.4

Final_Result

[illegible]

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	RB05-B
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	27231945/A004277333-001
Test Voltage:	Battery
Remark:	Temp 23.2°C 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)
7317.066667	---	34.59	54.00	19.41	150.0	V	142.0	8.2
7317.558333	42.38	---	74.00	31.62	150.0	V	345.0	8.2
12513.000000	51.72	---	74.00	22.28	150.0	V	220.0	16.1
12532.175000	---	42.89	54.00	11.11	150.0	V	243.0	16.4

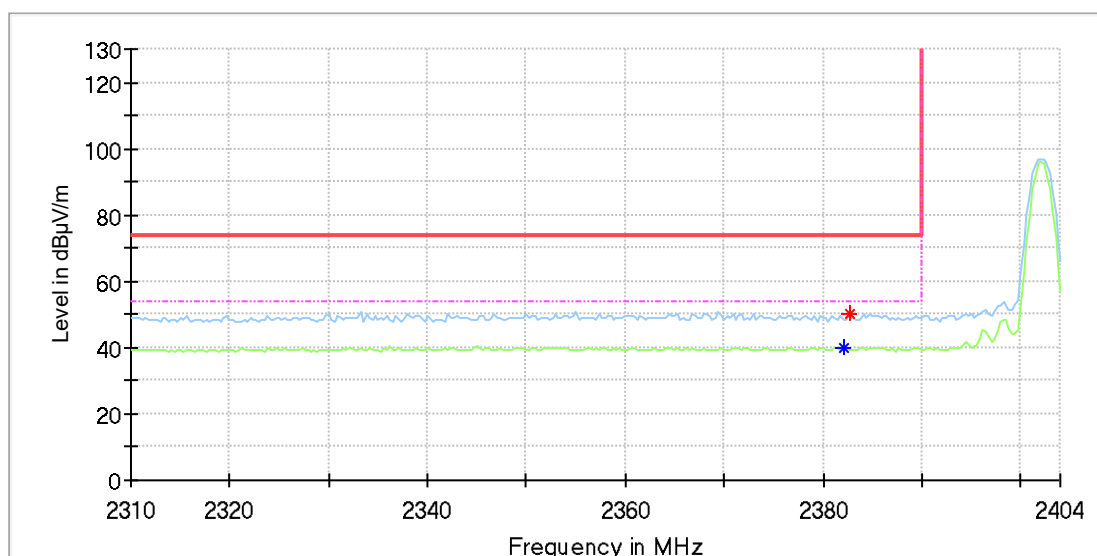
Final_Result

[illegible]

Appendix A.7: Test Results of Radiated Emissions in Restricted Bands

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	RB05-B
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	27231945/A004277333-001
Test Voltage:	Battery
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

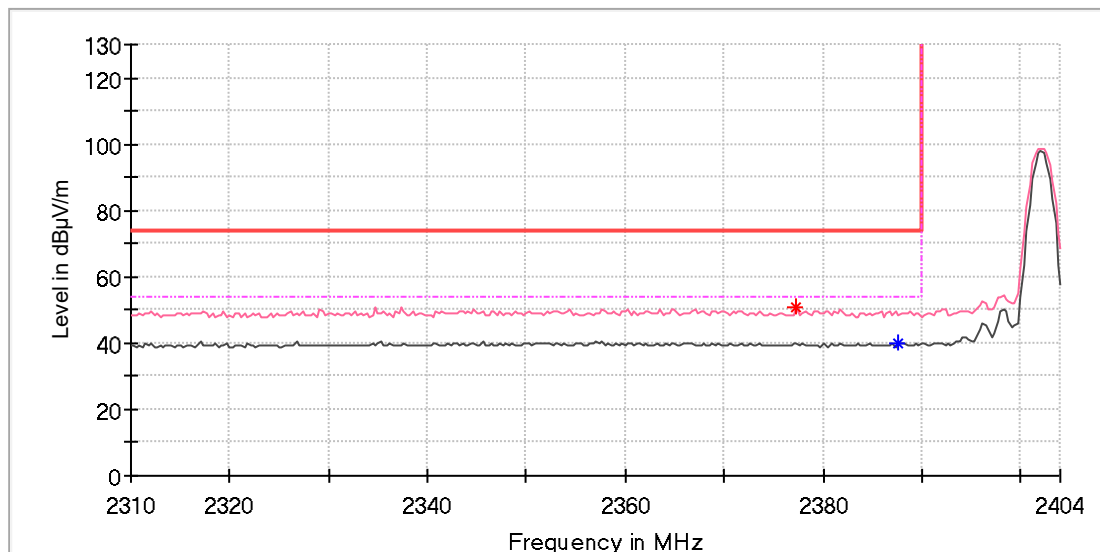
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2382.058824	---	40.20	54.00	13.80	150.0	H	43.0	8.5
2382.647059	50.38	---	74.00	23.62	150.0	H	271.0	8.5

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	RB05-B
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	27231945/A004277333-001
Test Voltage:	Battery
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

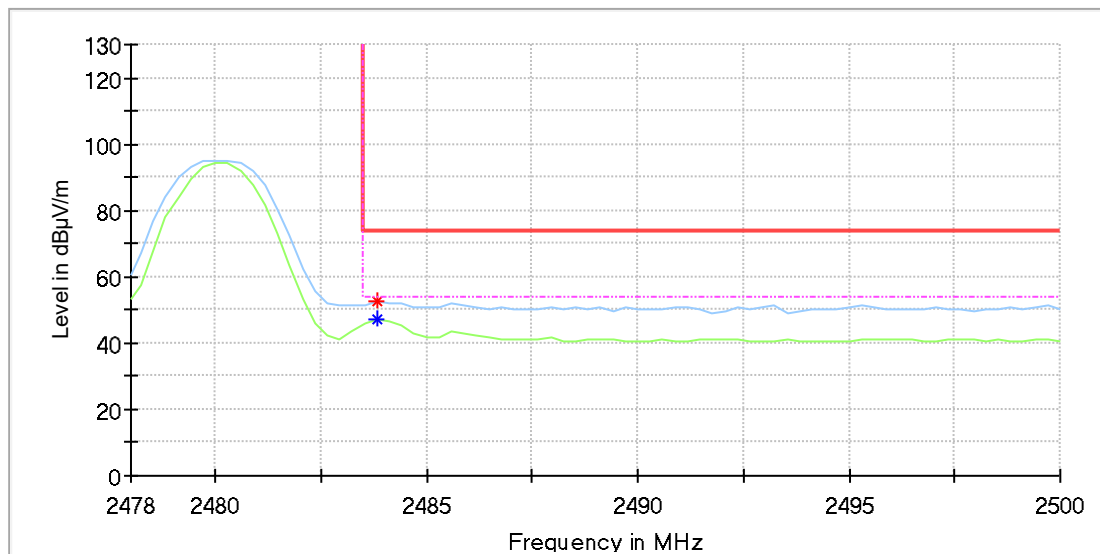
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2377.352941	50.76	---	74.00	23.24	150.0	V	278.0	8.5
2387.647059	---	40.01	54.00	13.99	150.0	V	311.0	8.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.750000	93.750000	93.750000	93.750000	93.750000	93.750000		93.750000	93.750000

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	RB05-B
Test Mode:	BLE 1M_High channel
Order No/Sample No:	27231945/A004277333-001
Test Voltage:	Battery
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

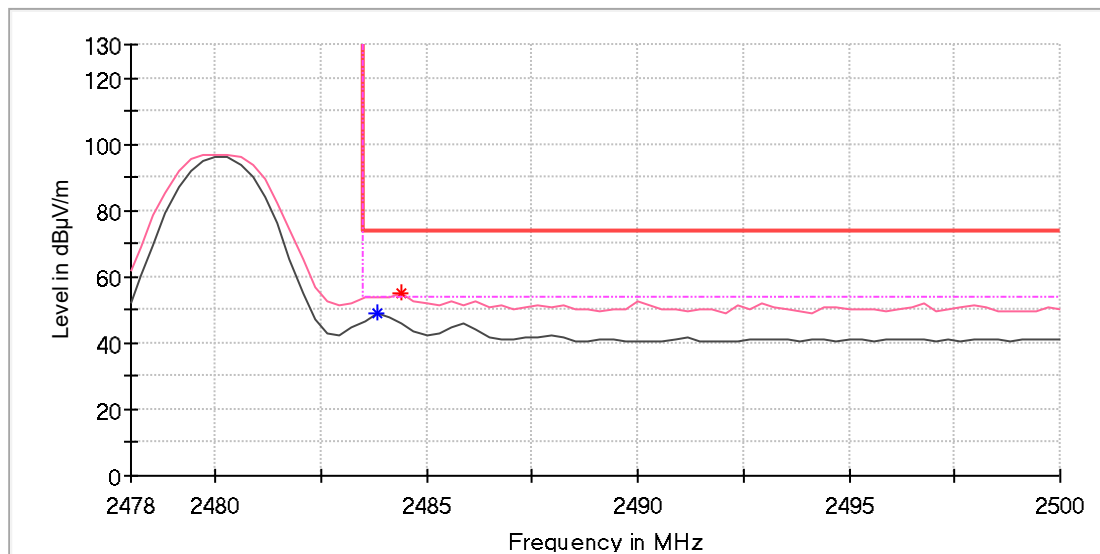
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.823529	52.89	---	74.00	21.11	150.0	H	243.0	9.0
2483.823529	---	46.93	54.00	7.07	150.0	H	243.0	9.0

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.5-93.6	93.5-93.6	93.5-93.6	93.5-93.6	93.5-93.6	93.5-93.6		93.5-93.6	

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	RB05-B
Test Mode:	BLE 1M_High channel
Order No/Sample No:	27231945/A004277333-001
Test Voltage:	Battery
Remark:	Temp 23.2°C 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)
2483.823529	---	48.69	54.00	5.31	150.0	V	16.0	9.0
2484.411765	54.77	---	74.00	19.23	150.0	V	11.0	9.0

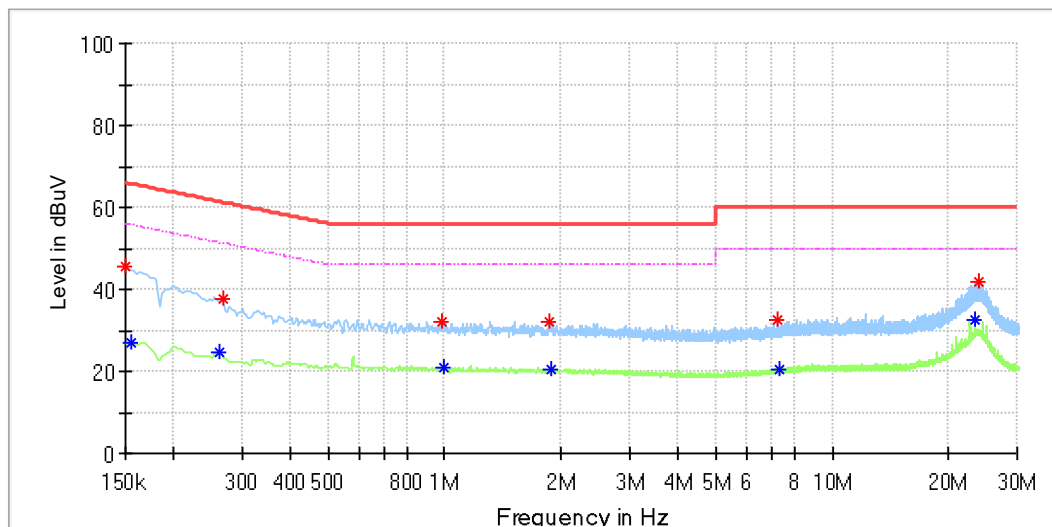
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.75 MHz	93.75 dBμV/m	93.75 dBμV/m	93.75 dBμV/m	93.75 dB	93.75 cm		93.75 deg	93.75 dB/m

Appendix A.8: Test Results of Conducted Emission on AC Mains

EUT Information

EUT Name: Robot Vacuum Cleaner
Model: RB05-B
Sample No: A004301666-001
Test Mode: Charging
Test Voltage: AC 120V/60Hz
Remark: Temp:23.4 ; Humi:50%
Test standard: FCC PART 15
Tested By: Charron Chen
Reviewed by: Charlie Zha

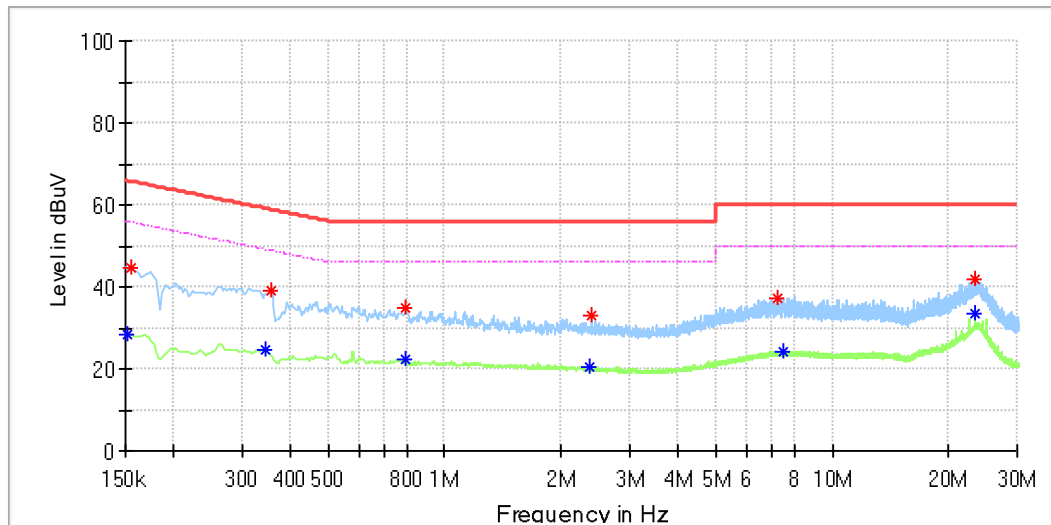


Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.150	45.8	---	66.00	20.20	L1	9.5
0.155	---	27.2	55.73	28.57	L1	9.6
0.262	---	24.7	51.37	26.65	L1	9.7
0.267	37.8	---	61.21	23.44	L1	9.6
0.986	32.2	---	56.00	23.76	L1	9.7
0.996	---	21.0	46.00	25.02	L1	9.7
1.869	32.2	---	56.00	23.78	L1	9.6
1.874	---	20.3	46.00	25.69	L1	9.6
7.219	32.7	---	60.00	27.32	L1	9.9
7.272	---	20.6	50.00	29.36	L1	9.9
23.261	---	32.7	50.00	17.34	L1	9.8
23.868	41.8	---	60.00	18.23	L1	9.8

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	RB05-B
Sample No:	A004301666-001
Test Mode:	Charging
Test Voltage:	AC 120V/60Hz
Remark:	Temp:23.4 ; Humi:50%
Test standard:	FCC PART 15
Tested By:	Charron Chen
Reviewed by	Charlie Zha



Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.152	---	28.4	55.86	27.47	N	9.7
0.155	44.8	---	65.73	20.95	N	9.8
0.344	---	24.8	49.11	24.32	N	9.9
0.356	39.0	---	58.81	19.82	N	9.9
0.789	---	22.5	46.00	23.51	N	9.8
0.794	34.8	---	56.00	21.25	N	9.8
2.366	---	20.4	46.00	25.64	N	9.9
2.396	32.9	---	56.00	23.09	N	9.9
7.185	37.4	---	60.00	22.62	N	9.9
7.513	---	24.3	50.00	25.66	N	9.8
23.246	41.9	---	60.00	18.11	N	9.8
23.251	---	33.5	50.00	16.47	N	9.8

Final Result

[illegible]

Appendix B: Test Results of 2.4GHz Wi-Fi

APPENDIX B: TEST RESULTS OF 2.4GHZ WI-FI	1
APPENDIX B.1: TEST RESULTS OF 6dB BANDWIDTH	2
Test Result	2
Test Graphs	3
APPENDIX B.2: TEST RESULTS OF 99% BANDWIDTH	7
Test Result	7
Test Graphs	8
APPENDIX B.3: TEST RESULTS OF CONDUCTED POWER SPECTRAL DENSITY	12
Test Result	12
Test Graphs	13
APPENDIX B.4: TEST RESULTS OF BAND EDGE MEASUREMENTS	17
Test Result	17
Test Graphs	18
APPENDIX B.5: TEST RESULTS OF CONDUCTED SPURIOUS EMISSIONS	21
Test Result	21
Test Graphs	22
APPENDIX B.6: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS	34
30MHz - 1GHz	34
1GHz - 18GHz	36
APPENDIX B.7: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS	40
Wi-Fi 802.11 b mode	40
Wi-Fi 802.11 g mode	44
Wi-Fi 802.11 n(HT20) mode	48
Wi-Fi 802.11 n(HT40) mode	52
APPENDIX B.8: TEST RESULTS OF CONDUCTED EMISSION ON AC MAINS	56

Appendix B.1: Test Results of 6dB Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.200	2406.880	2417.080	0.5	PASS
		2437	10.240	2431.880	2442.120	0.5	PASS
		2462	10.240	2456.880	2467.120	0.5	PASS
11G	Ant1	2412	16.400	2403.800	2420.200	0.5	PASS
		2437	16.320	2428.840	2445.160	0.5	PASS
		2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.480	2403.200	2420.680	0.5	PASS
		2437	17.400	2428.240	2445.640	0.5	PASS
		2462	17.440	2453.240	2470.680	0.5	PASS
11N40SISO	Ant1	2422	36.080	2404.000	2440.080	0.5	PASS
		2437	36.000	2419.000	2455.000	0.5	PASS
		2452	36.160	2433.920	2470.080	0.5	PASS

Test Graphs

11B Ant1 2412



11B Ant1 2437



11B Ant1 2462



11G Ant1 2412



11G Ant1 2437



11G Ant1 2462



11N20SISO Ant1 2412



11N20SISO Ant1 2437



11N20SISO Ant1 2462



11N40SISO Ant1 2422



11N40SISO Ant1 2437



11N40SISO Ant1 2452



Appendix B.2: Test Results of 99% Bandwidth

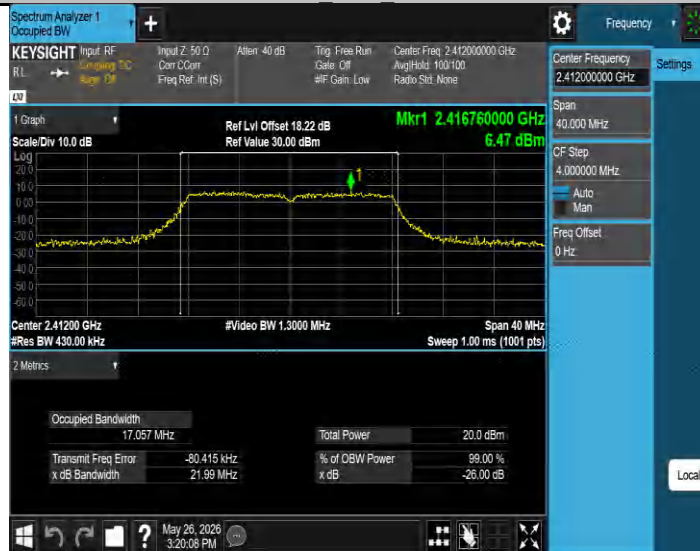
Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	15.652	2404.1031	2419.7551	---	PASS
		2437	15.704	2429.1017	2444.8057	---	PASS
		2462	15.816	2454.0679	2469.8839	---	PASS
11G	Ant1	2412	17.057	2403.3911	2420.4481	---	PASS
		2437	17.055	2428.3837	2445.4387	---	PASS
		2462	17.036	2453.4235	2470.4595	---	PASS
11N20SISO	Ant1	2412	18.019	2402.9516	2420.9706	---	PASS
		2437	18.000	2427.9561	2445.9561	---	PASS
		2462	18.014	2452.9424	2470.9564	---	PASS
11N40SISO	Ant1	2422	36.694	2403.5721	2440.2661	---	PASS
		2437	36.595	2418.6412	2455.2362	---	PASS
		2452	36.790	2433.5575	2470.3475	---	PASS

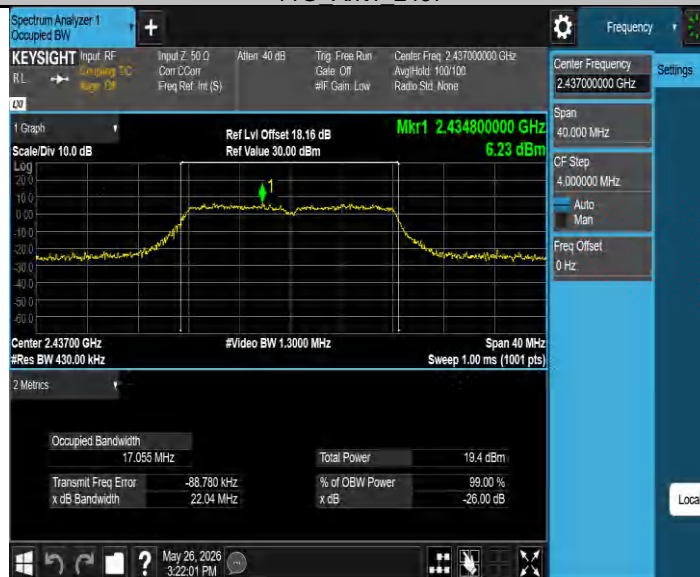
Test Graphs



11G Ant1 2412

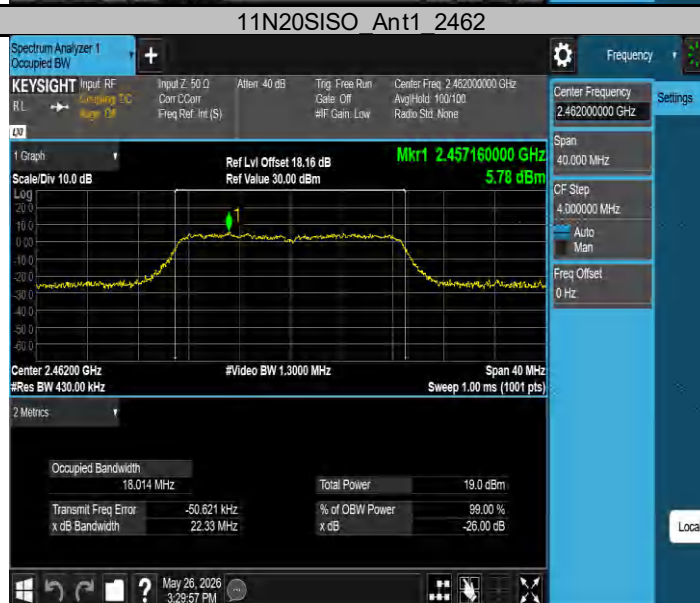
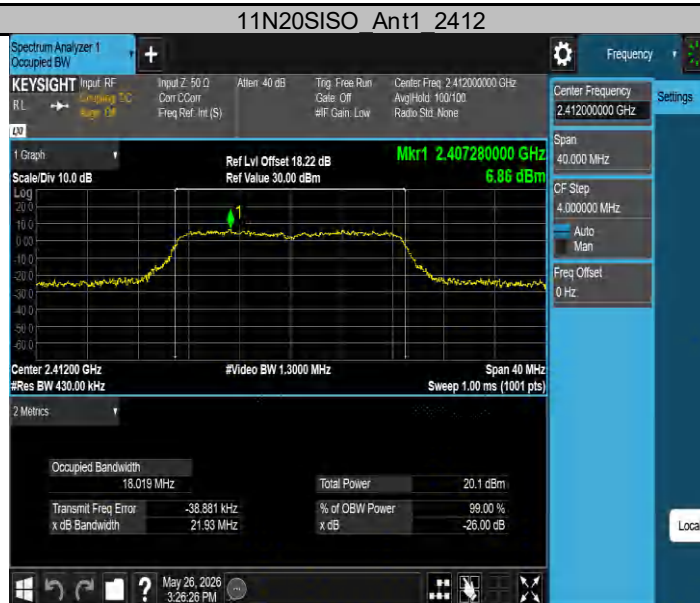


11G Ant1 2437



11G Ant1 2462







Appendix B.3: Test Results of Conducted Power Spectral Density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-14.41	≤8.00	PASS
		2437	-15.60	≤8.00	PASS
		2462	-16.22	≤8.00	PASS
11G	Ant1	2412	-12.74	≤8.00	PASS
		2437	-14.08	≤8.00	PASS
		2462	-14.46	≤8.00	PASS
11N20SISO	Ant1	2412	-12.37	≤8.00	PASS
		2437	-13.00	≤8.00	PASS
		2462	-13.20	≤8.00	PASS
11N40SISO	Ant1	2422	-15.85	≤8.00	PASS
		2437	-14.47	≤8.00	PASS
		2452	-15.99	≤8.00	PASS

Test Graphs

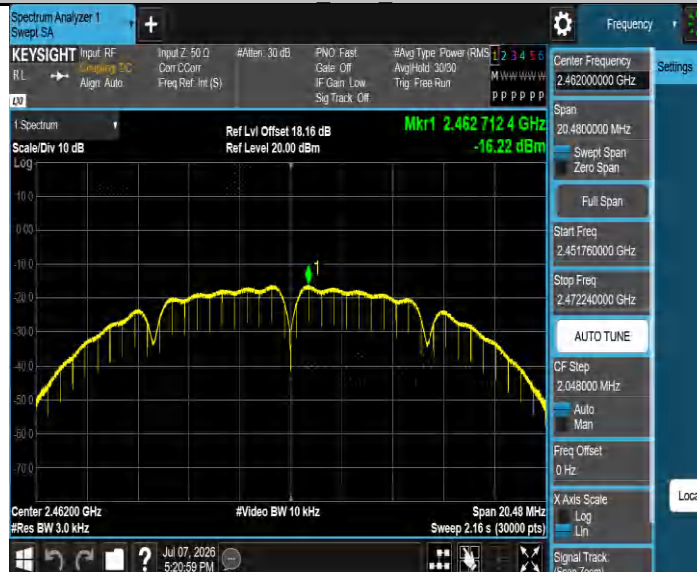
11B Ant1 2412



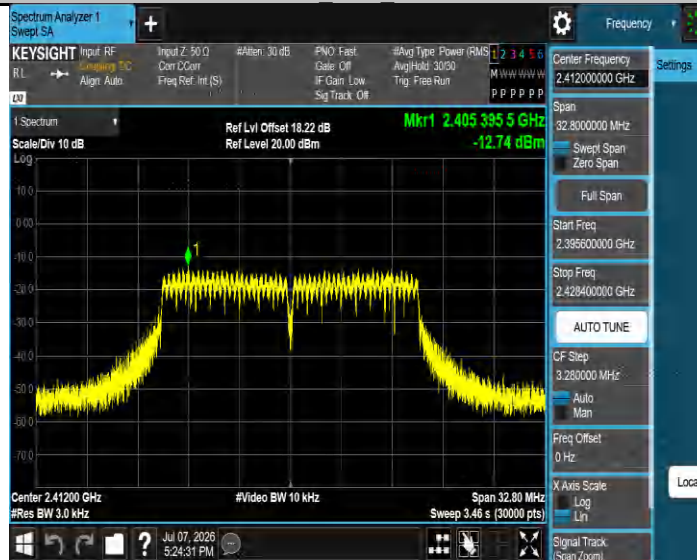
11B Ant1 2437



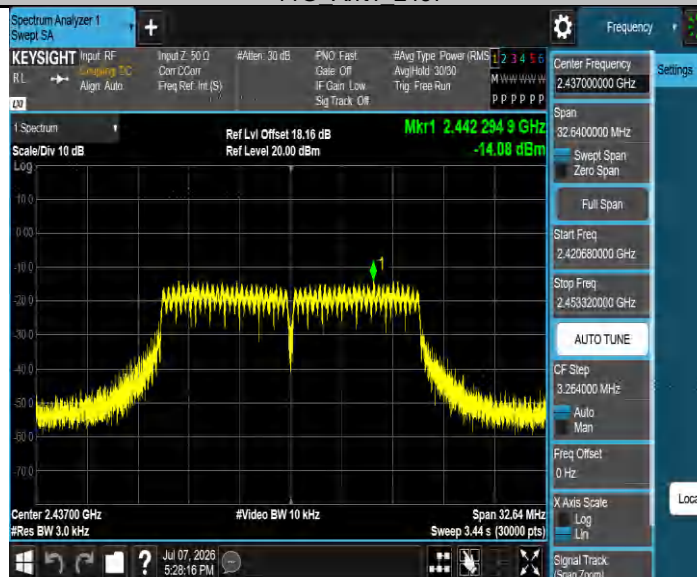
11B Ant1 2462



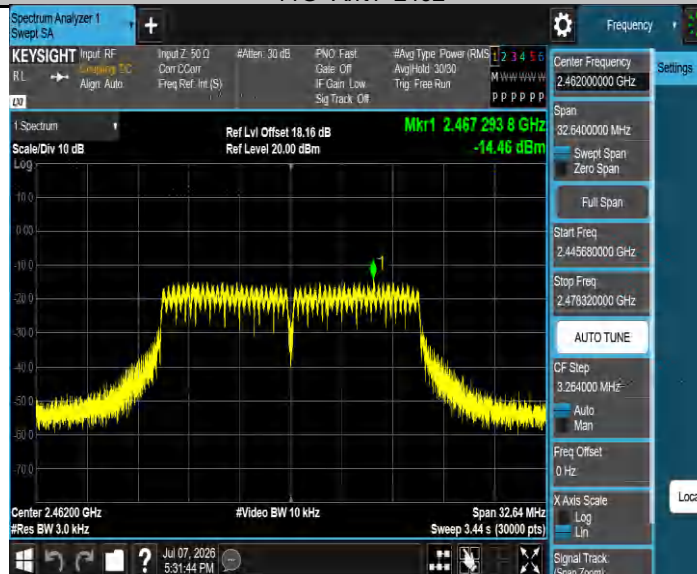
11G Ant1 2412



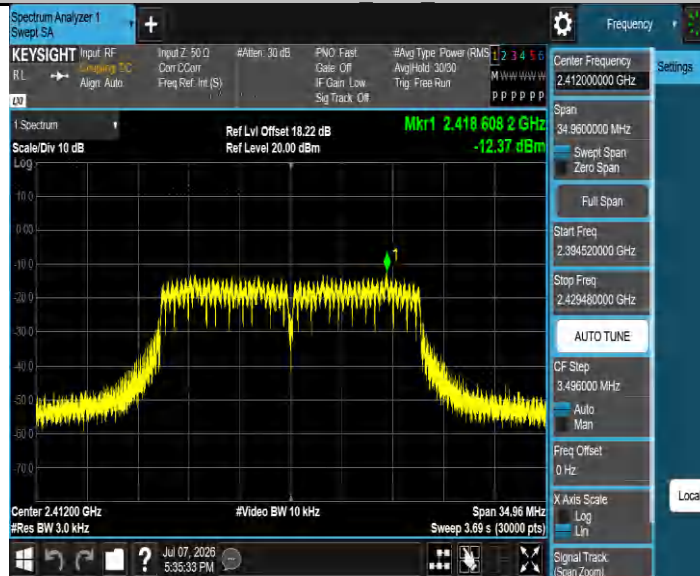
11G Ant1 2437



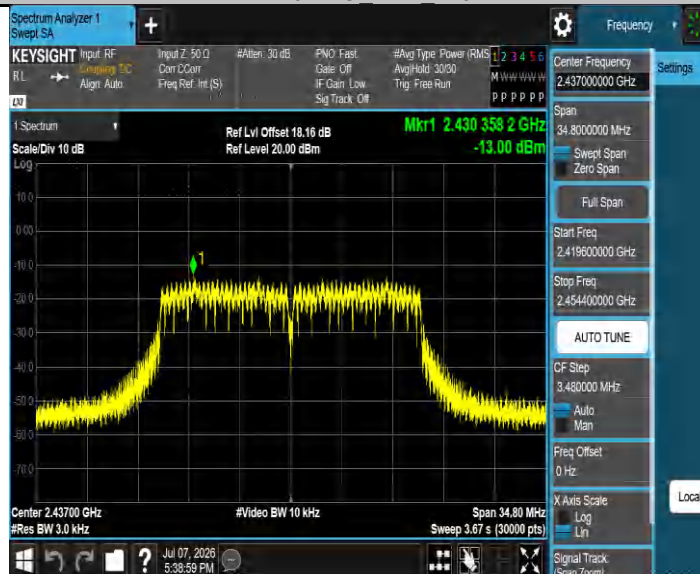
11G Ant1 2462



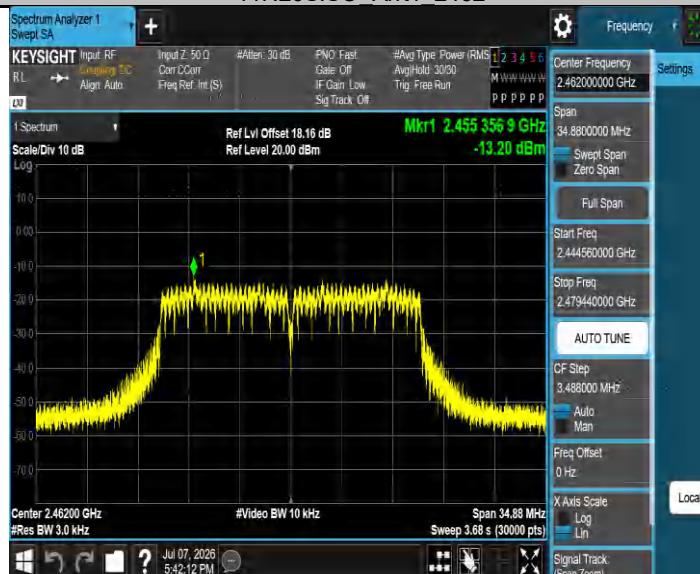
11N20SISO Ant1 2412



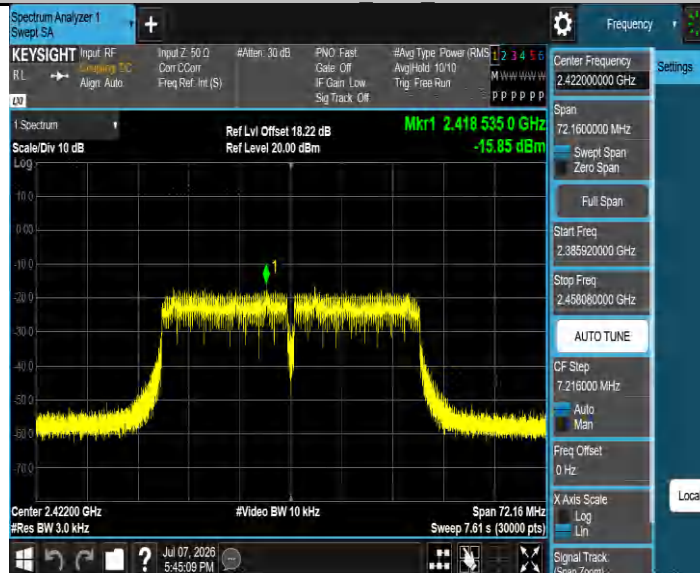
11N20SISO Ant1 2437



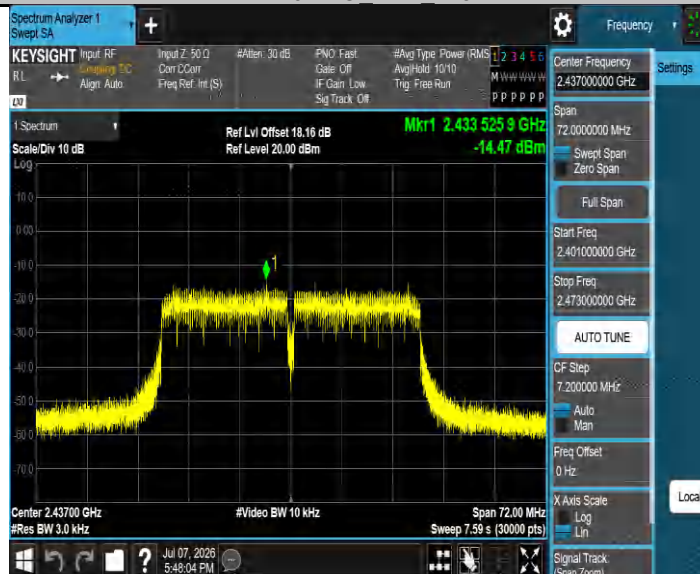
11N20SISO Ant1 2462



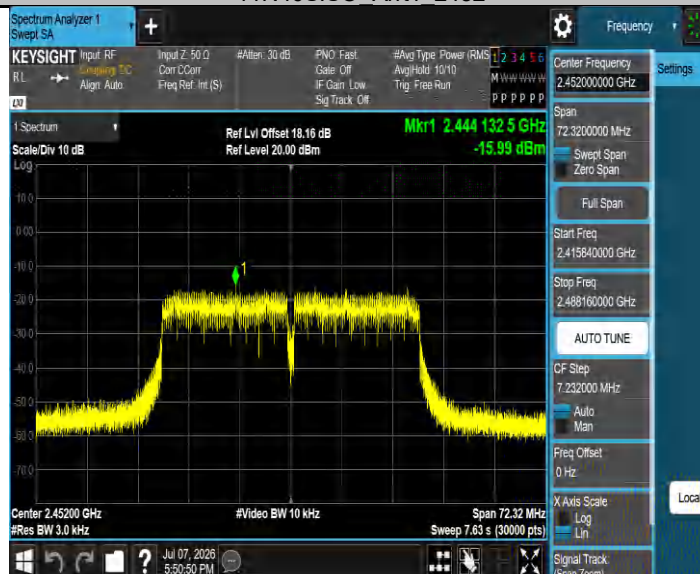
11N40SISO Ant1 2422



11N40SISO Ant1 2437



11N40SISO Ant1 2452



Appendix B.4: Test Results of Band Edge Measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	5.07	-34.12	≤-14.93	PASS
		High	2462	3.81	-37.59	≤-16.2	PASS
11G	Ant1	Low	2412	0.73	-28.38	≤-19.27	PASS
		High	2462	-0.39	-37.17	≤-20.39	PASS
11N20SISO	Ant1	Low	2412	1.07	-30.52	≤-18.93	PASS
		High	2462	-0.40	-37.4	≤-20.4	PASS
11N40SISO	Ant1	Low	2422	-4.02	-35.79	≤-24.02	PASS
		High	2452	-3.36	-37.61	≤-23.36	PASS

Test Graphs

11B Ant1 Low 2412



11B Ant1 High 2462



11G Ant1 Low 2412



11G Ant1 High 2462

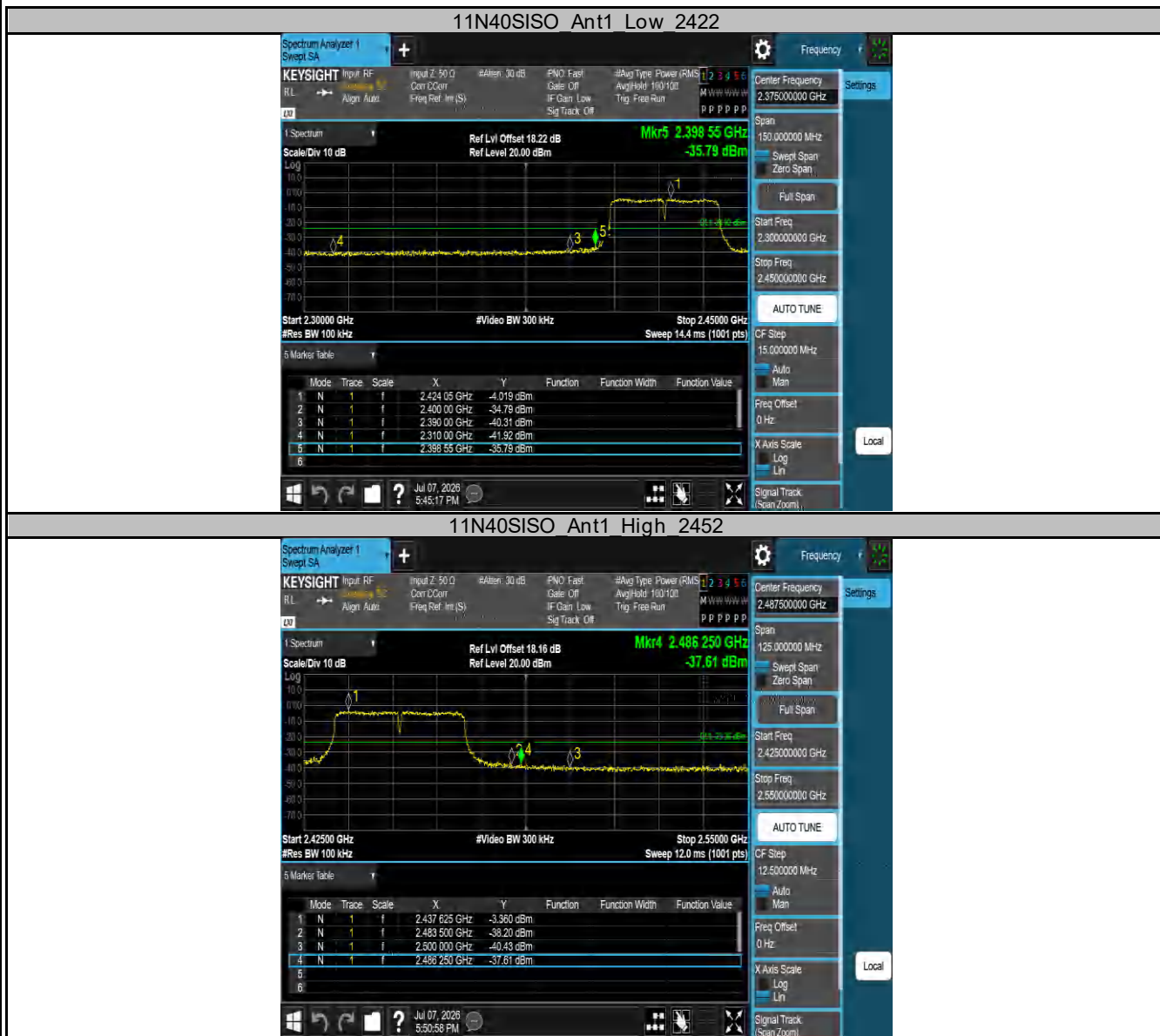


11N20SISO Ant1 Low 2412



11N20SISO Ant1 High 2462





Appendix B.5: Test Results of Conducted Spurious Emissions

Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	5.04	5.04	---	PASS
			30~1000	5.04	-41.96	≤-14.96	PASS
			1000~26500	5.04	-43.12	≤-14.96	PASS
		2437	Reference	4.32	4.32	---	PASS
			30~1000	4.32	-41.49	≤-15.68	PASS
			1000~26500	4.32	-43.59	≤-15.68	PASS
		2462	Reference	3.70	3.70	---	PASS
			30~1000	3.70	-42.18	≤-16.3	PASS
			1000~26500	3.70	-43.84	≤-16.3	PASS
11G	Ant1	2412	Reference	0.68	0.68	---	PASS
			30~1000	0.68	-41.62	≤-19.32	PASS
			1000~26500	0.68	-43.25	≤-19.32	PASS
		2437	Reference	-0.47	-0.47	---	PASS
			30~1000	-0.47	-41.13	≤-20.47	PASS
			1000~26500	-0.47	-43.24	≤-20.47	PASS
		2462	Reference	-1.02	-1.02	---	PASS
			30~1000	-1.02	-41.44	≤-21.02	PASS
			1000~26500	-1.02	-43.63	≤-21.02	PASS
11N20SISO	Ant1	2412	Reference	0.06	0.06	---	PASS
			30~1000	0.06	-41.99	≤-19.94	PASS
			1000~26500	0.06	-43.2	≤-19.94	PASS
		2437	Reference	-0.45	-0.45	---	PASS
			30~1000	-0.45	-40.89	≤-20.45	PASS
			1000~26500	-0.45	-43.17	≤-20.45	PASS
		2462	Reference	-0.97	-0.97	---	PASS
			30~1000	-0.97	-41.78	≤-20.97	PASS
			1000~26500	-0.97	-43.6	≤-20.97	PASS
11N40SISO	Ant1	2422	Reference	-4.69	-4.69	---	PASS
			30~1000	-4.69	-41.8	≤-24.69	PASS
			1000~26500	-4.69	-43.32	≤-24.69	PASS
		2437	Reference	-3.19	-3.19	---	PASS
			30~1000	-3.19	-41.47	≤-23.19	PASS
			1000~26500	-3.19	-43.47	≤-23.19	PASS
		2452	Reference	-4.13	-4.13	---	PASS
			30~1000	-4.13	-41.63	≤-24.13	PASS
			1000~26500	-4.13	-43.32	≤-24.13	PASS

Test Graphs

11B Ant1 2412 0~Reference



11B Ant1 2412 30~1000



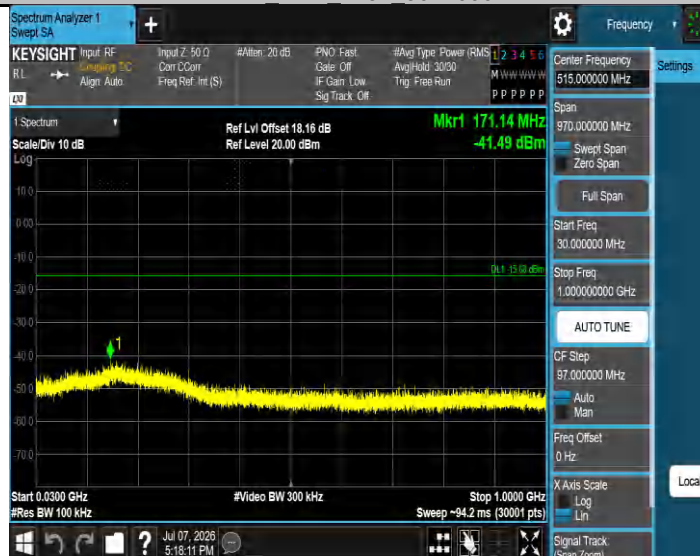
11B Ant1 2412 1000~26500



11B Ant1 2437 0~Reference

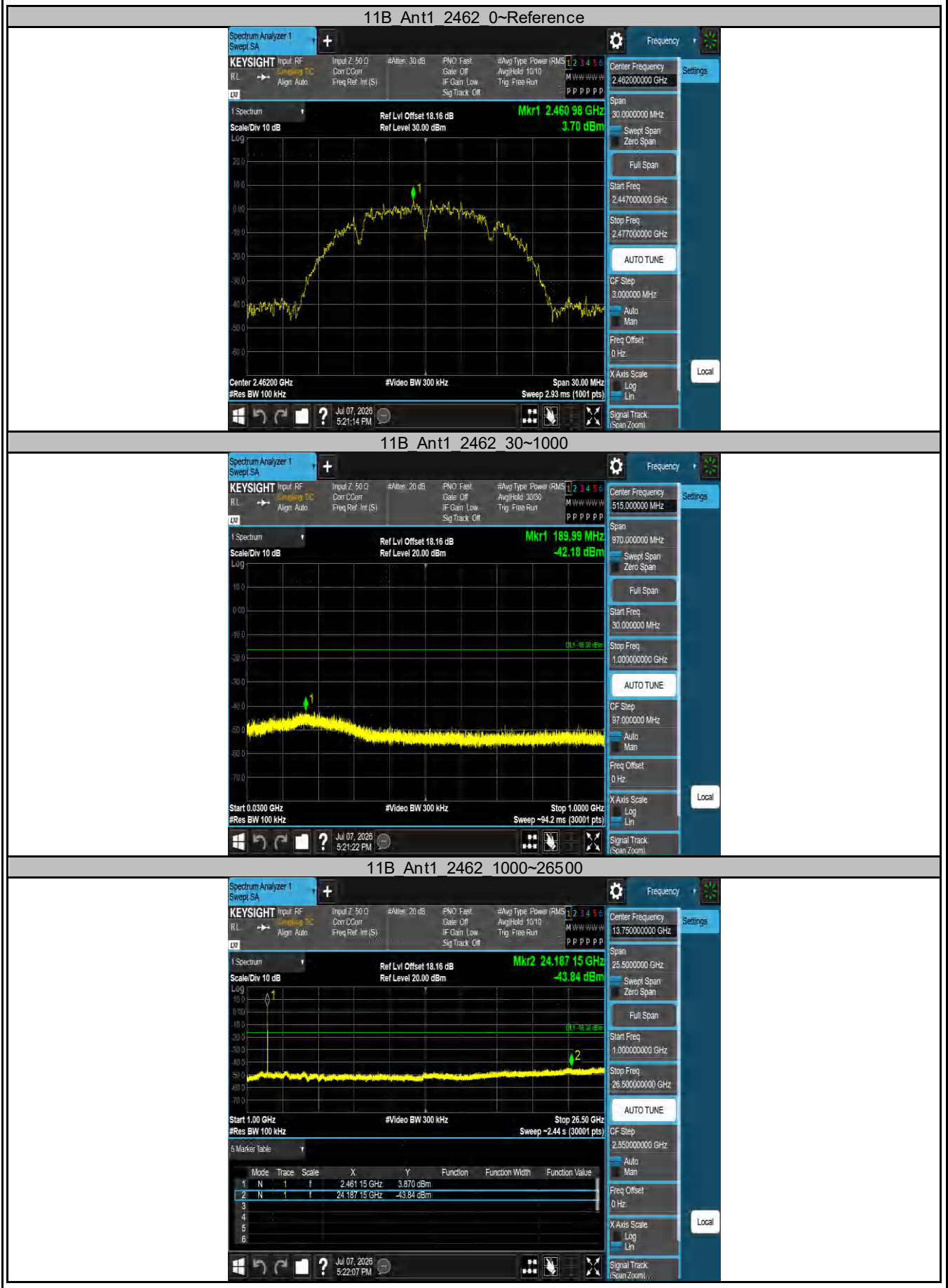


11B Ant1 2437 30~1000



11B Ant1 2437 1000~26500











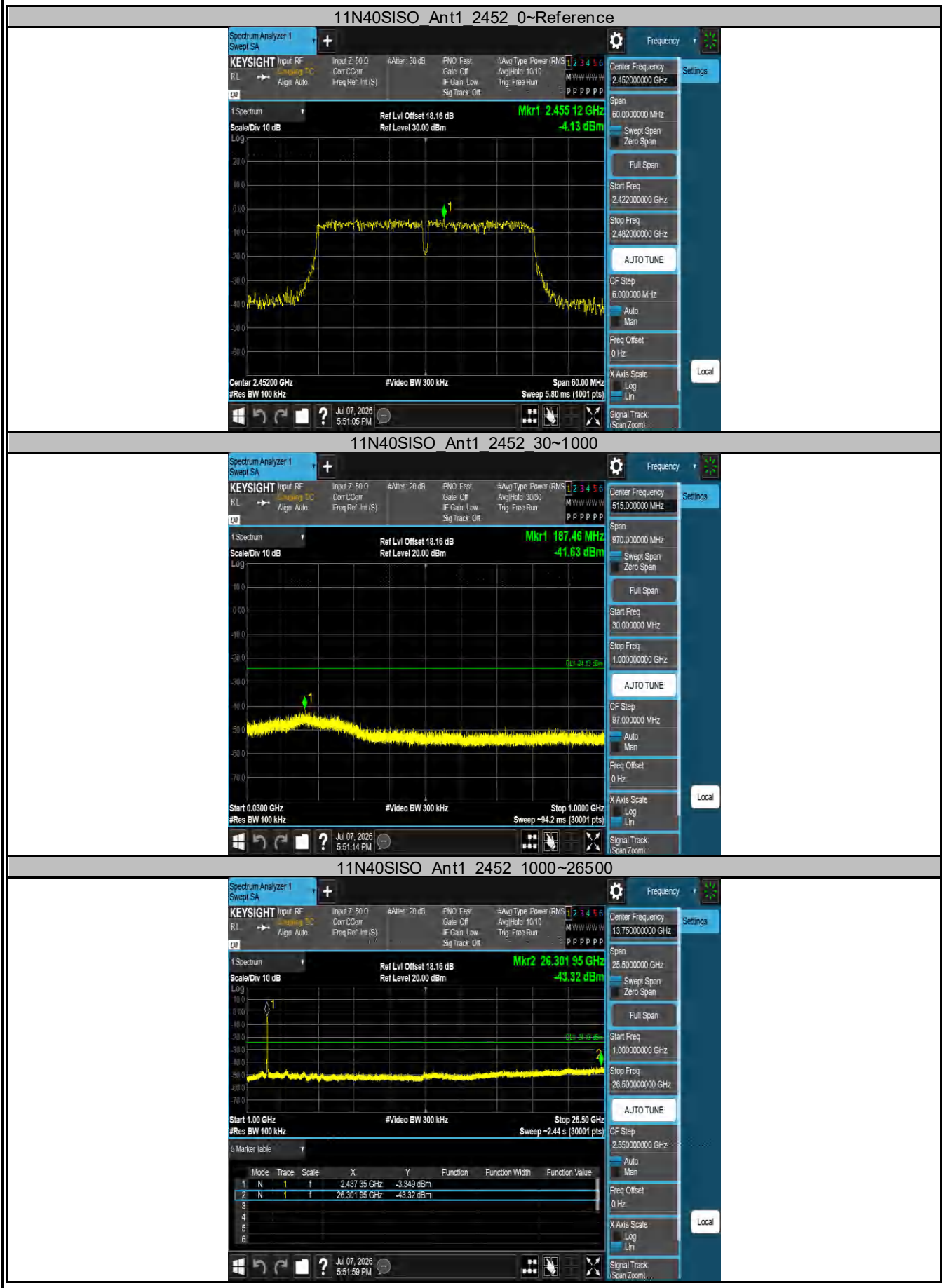












Appendix B.6: Test Results of Radiated Spurious Emissions

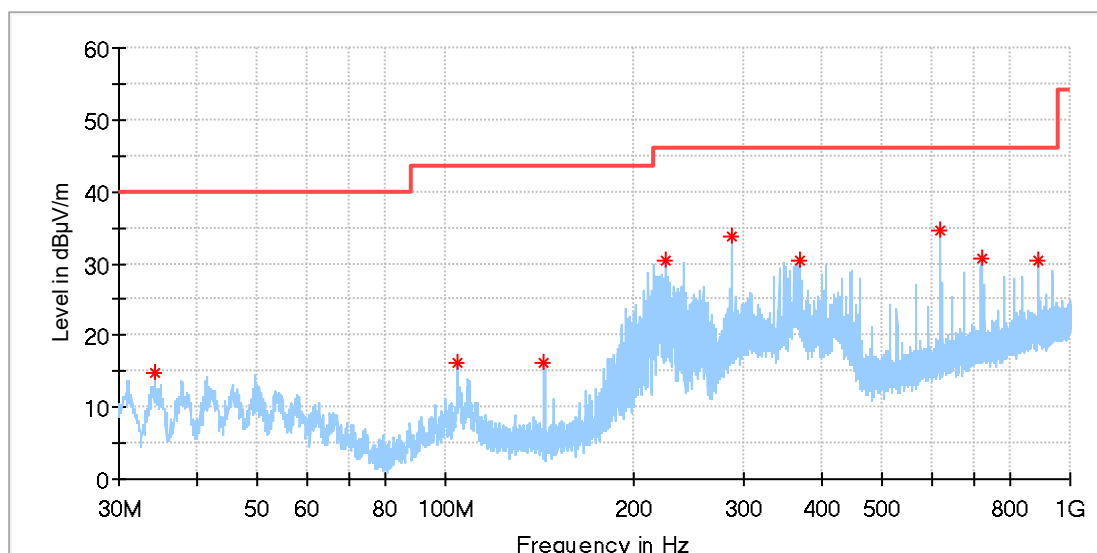
Note:

- 1) This testing was carried out on different modulations, but 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.

30MHz - 1GHz

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	RB05-B
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	27231945/A004277333-001
Test Voltage:	Battery
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

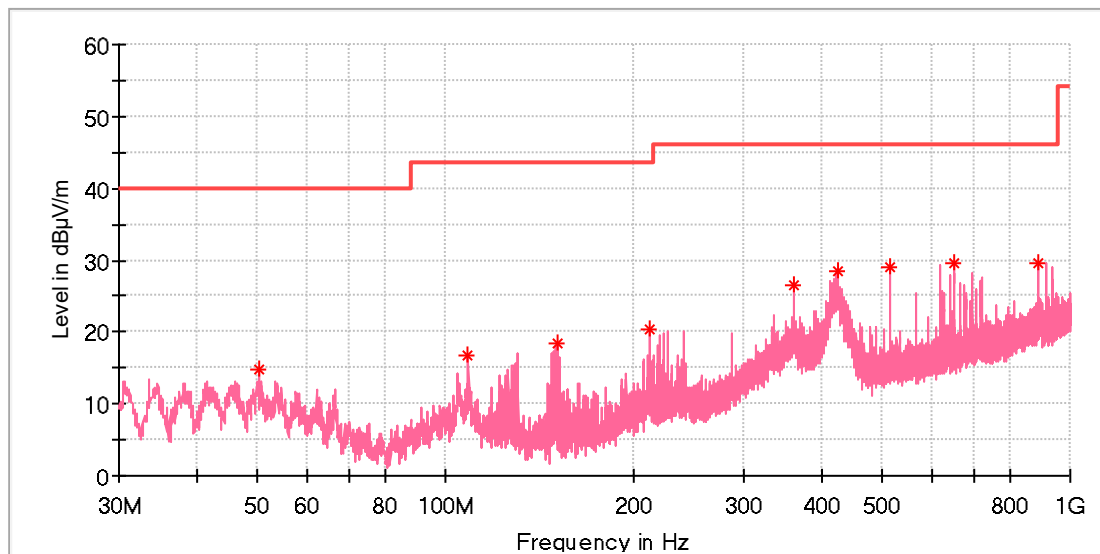
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
34.257222	14.71	40.00	25.29	100.0	H	338.0	-22.2
104.743889	16.19	43.50	27.31	100.0	H	225.0	-18.9
143.975000	16.18	43.50	27.32	100.0	H	47.0	-22.4
225.239444	30.34	46.00	15.66	100.0	H	30.0	-18.4
288.020000	33.72	46.00	12.28	100.0	H	346.0	-16.6
367.937222	30.29	46.00	15.71	100.0	H	301.0	-14.5
621.053333	34.68	46.00	11.32	100.0	H	69.0	-9.3
720.047222	30.71	46.00	15.29	100.0	H	4.0	-7.6
891.036667	30.45	46.00	15.55	100.0	H	172.0	-4.9

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

EUT Information

EUT Name: Robot Vacuum Cleaner
Model: RB05-B
Test Mode: WIFI 2.4G_11b_Ch6
Order No/Sample No: 27231945/A004277333-001
Test Voltage: Battery
Remark: Temp 23.2°C Humi:51%
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)
50.423889	14.79	40.00	25.21	100.0	V	345.0	-18.4
108.785556	16.63	43.50	26.87	100.0	V	223.0	-19.1
151.303889	18.53	43.50	24.97	100.0	V	307.0	-22.2
212.629444	20.40	43.50	23.10	100.0	V	337.0	-18.8
360.231111	26.49	46.00	19.51	100.0	V	223.0	-14.6
423.658333	28.34	46.00	17.66	100.0	V	184.0	-13.2
513.006111	29.14	46.00	16.86	100.0	V	71.0	-11.6
653.332778	29.58	46.00	16.42	100.0	V	175.0	-8.8
890.982778	29.53	46.00	16.47	100.0	V	104.0	-4.9

Final_Result

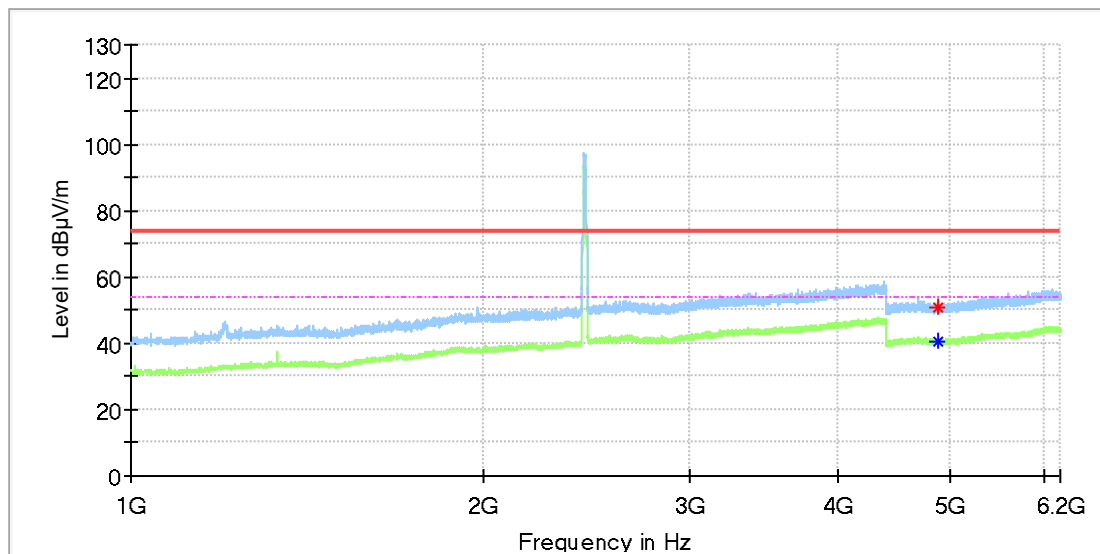
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

1GHz - 18GHz

Note: The highest waveform in the figure is Wi-Fi Fundamental.

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	RB05-B
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	27231945/A004277333-001
Test Voltage:	Battery
Remark:	Temp 23.2°C 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)
4873.500000	---	40.74	54.00	13.26	150.0	H	3.0	13.3
4876.000000	50.91	---	74.00	23.09	150.0	H	199.0	13.3

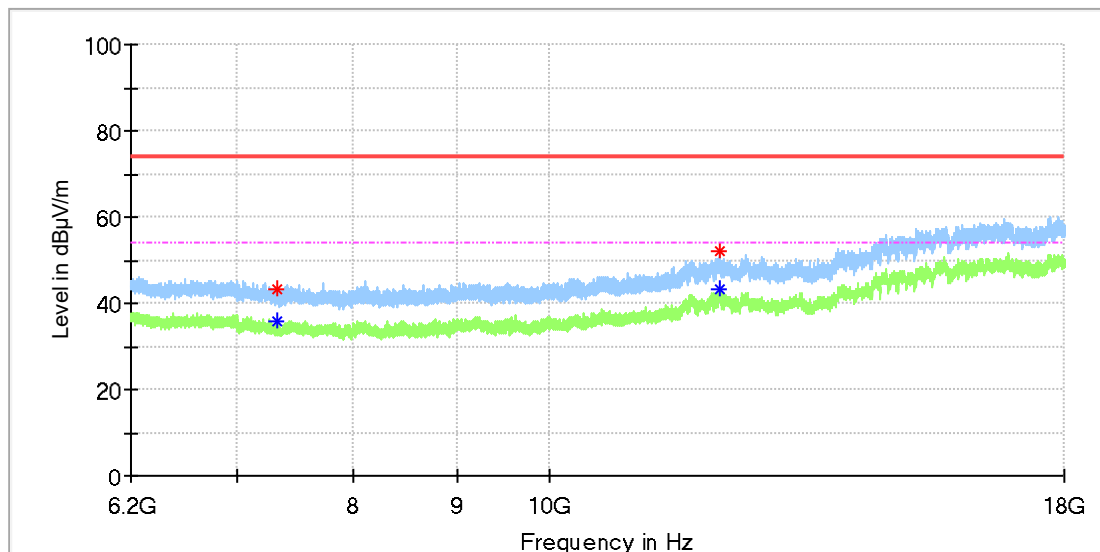
Final Result

[illegible]

EUT Information

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	RB05-B
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	27231945/A004277333-001
Test Voltage:	Battery
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

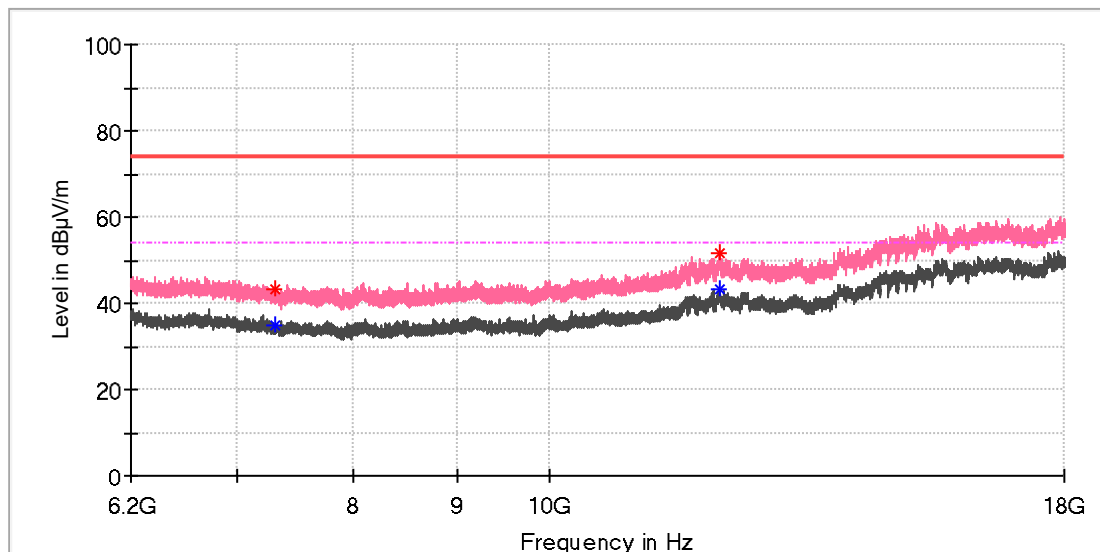
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7329.358333	---	35.68	54.00	18.32	150.0	H	12.0	8.1
7331.816667	43.32	---	74.00	30.68	150.0	H	285.0	8.1
12144.250000	52.30	---	74.00	21.70	150.0	H	344.0	16.6
12145.725000	---	43.19	54.00	10.81	150.0	H	91.0	16.6

Final_Result

[illegible]

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	RB05-B
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	27231945/A004277333-001
Test Voltage:	Battery
Remark:	Temp 23.2°C 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)
7308.708333	43.07	---	74.00	30.93	150.0	V	0.0	8.2
7313.133333	---	35.03	54.00	18.97	150.0	V	170.0	8.2
12132.941667	---	43.31	54.00	10.69	150.0	V	315.0	16.3
12149.658333	51.58	---	74.00	22.42	150.0	V	227.0	16.7

Final_Result

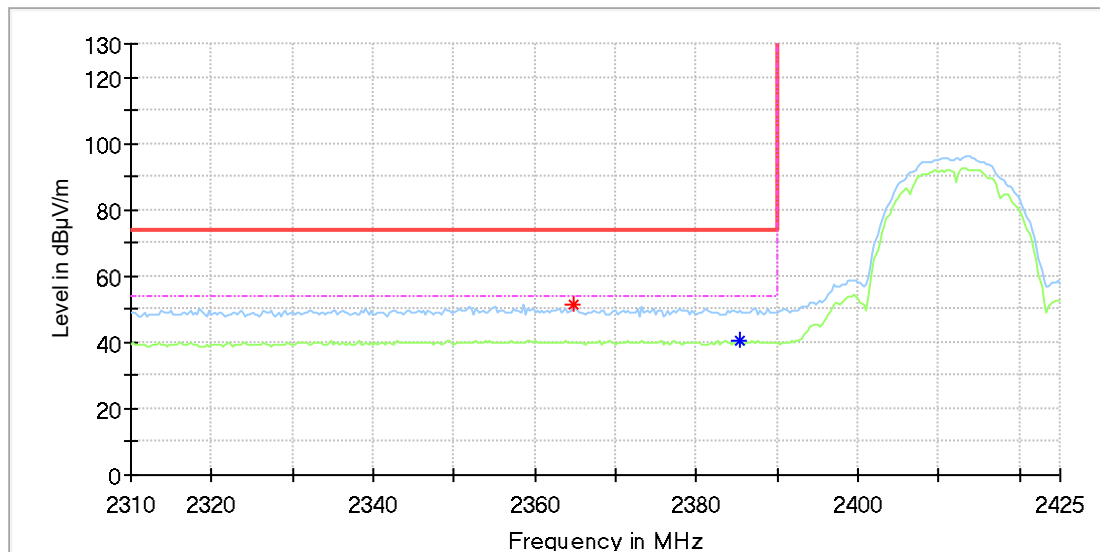
[illegible]

Appendix B.7: Test Results of Radiated Emissions in Restricted Bands

Wi-Fi 802.11 b mode

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	RB05-B
Test Mode:	WIFI 2.4G_11b_Ch1
Order No/Sample No:	27231945/A004277333-001
Test Voltage:	Battery
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

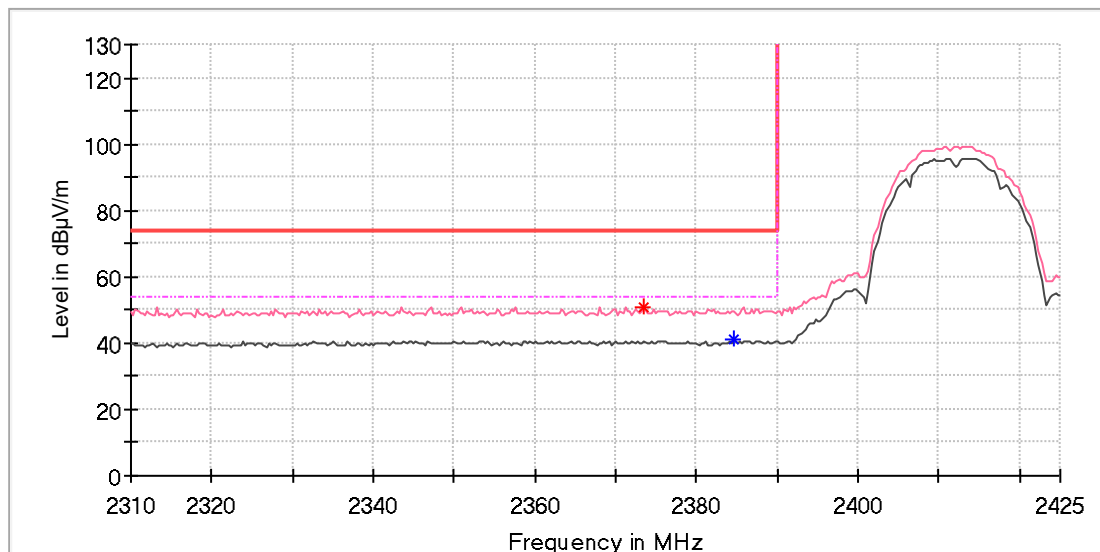
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2364.705882	51.48	---	74.00	22.52	150.0	H	255.0	8.5
2385.294118	---	40.81	54.00	13.19	150.0	H	235.0	8.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
90.0000	90.0000	90.0000	90.0000	90.0000	90.0000		90.0000	90.0000

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	RB05-B
Test Mode:	WIFI 2.4G_11b_Ch1
Order No/Sample No:	27231945/A004277333-001
Test Voltage:	Battery
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

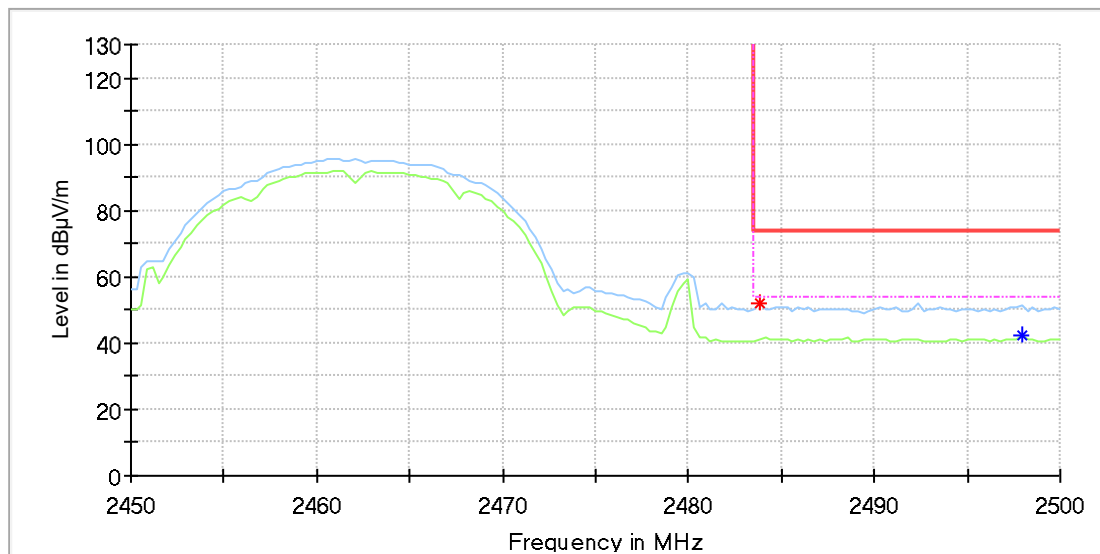
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2373.529412	50.83	---	74.00	23.17	150.0	V	209.0	8.5
2384.705882	---	40.89	54.00	13.11	150.0	V	204.0	8.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.5-93.7	93.5-93.7	93.5-93.7	93.5-93.7	93.5-93.7	93.5-93.7		93.5-93.7	

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	RB05-B
Test Mode:	WIFI 2.4G_11b_Ch11
Order No/Sample No:	27231945/A004277333-001
Test Voltage:	Battery
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

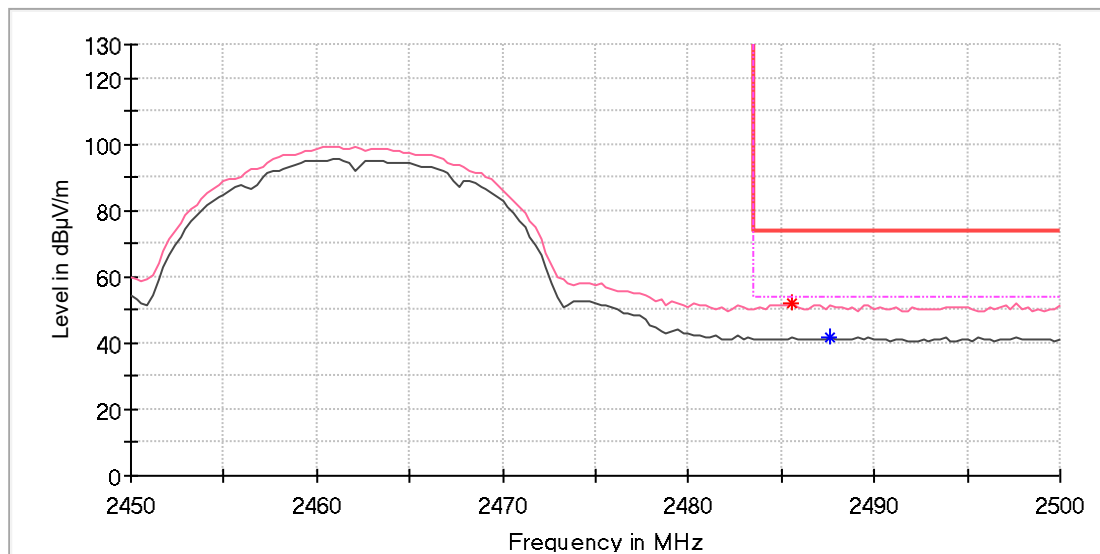
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.823529	51.94	---	74.00	22.06	150.0	H	112.0	9.0
2497.941177	---	42.04	54.00	11.96	150.0	H	31.0	9.0

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.75 MHz	93.75 dBμV/m	93.75 dBμV/m	93.75 dBμV/m	93.75 dB	93.75 cm		93.75 deg	93.75 dB/m

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	RB05-B
Test Mode:	WIFI 2.4G_11b_Ch11
Order No/Sample No:	27231945/A004277333-001
Test Voltage:	Battery
Remark:	Temp 23.2°C 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)
2485.588235	51.74	---	74.00	22.26	150.0	V	136.0	9.0
2487.647059	---	41.75	54.00	12.25	150.0	V	174.0	9.0

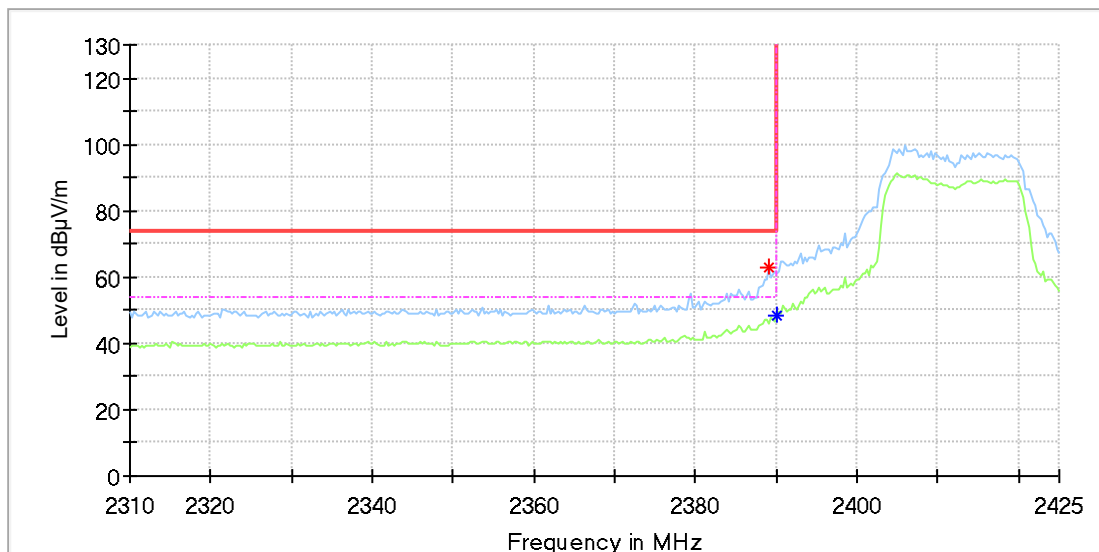
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.750000	93.750000	93.750000	93.750000	93.750000	93.750000		93.750000	93.750000

Wi-Fi 802.11 g mode

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	RB05-B
Test Mode:	WIFI 2.4G_11g_Ch1
Order No/Sample No:	27231945/A004277333-001
Test Voltage:	Battery
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

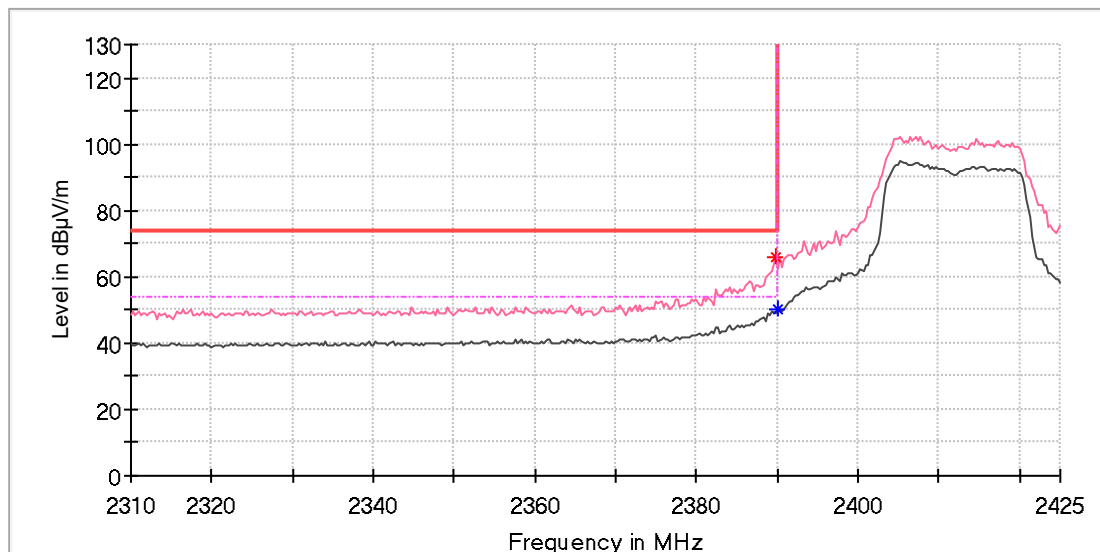
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.117647	62.64	---	74.00	11.36	150.0	H	241.0	8.5
2390.000000	---	48.08	54.00	5.92	150.0	H	0.0	8.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.75 MHz	128.00 dBμV/m	126.00 dBμV/m	120.00 dBμV/m	6.00 dB	30.00 cm	0	0	0.00 dB/m

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	RB05-B
Test Mode:	WIFI 2.4G_11g_Ch1
Order No/Sample No:	27231945/A004277333-001
Test Voltage:	Battery
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

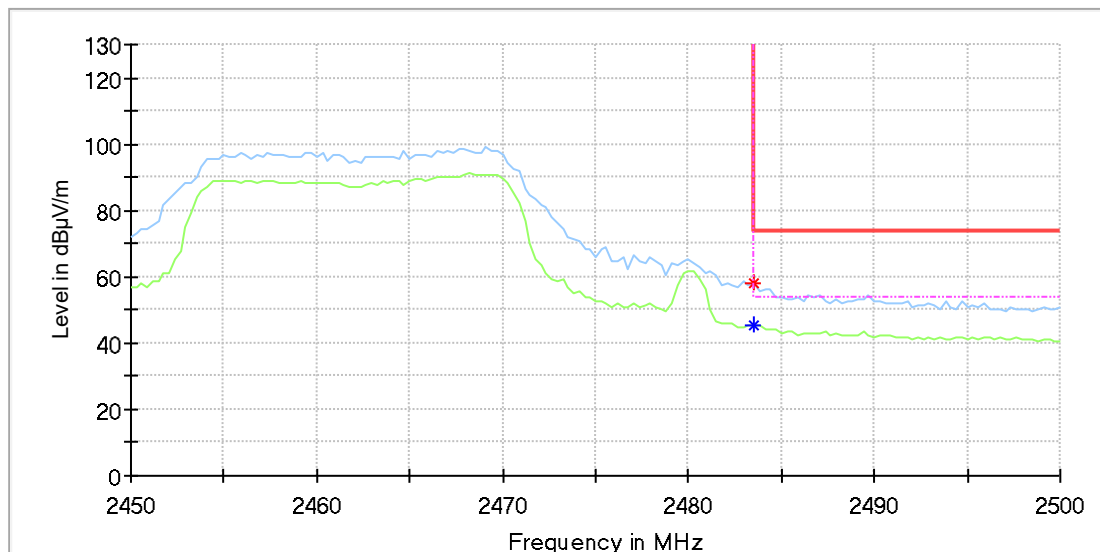
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.705882	66.03	---	74.00	7.97	150.0	V	202.0	8.5
2390.000000	---	49.99	54.00	4.01	150.0	V	202.0	8.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.750000	93.750000	93.750000	93.750000	93.750000	93.750000		93.750000	93.750000

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	RB05-B
Test Mode:	WIFI 2.4G_11g_Ch11
Order No/Sample No:	27231945/A004277333-001
Test Voltage:	Battery
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

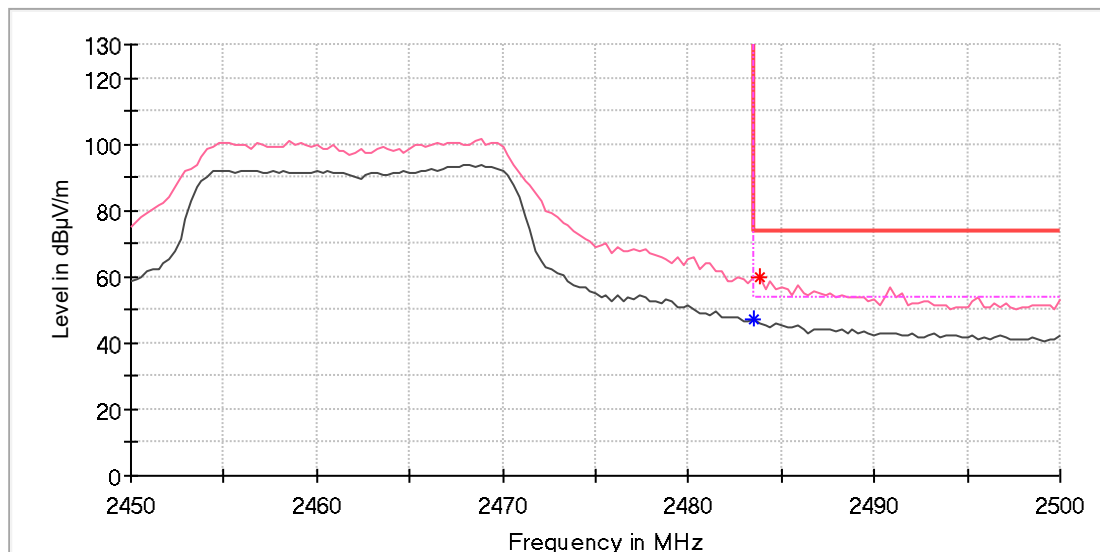
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	57.77	---	74.00	16.23	150.0	H	245.0	9.0
2483.529412	---	45.22	54.00	8.78	150.0	H	245.0	9.0

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.750000	93.750000	93.750000	93.750000	93.750000	93.750000		93.750000	93.750000

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	RB05-B
Test Mode:	WIFI 2.4G_11g_Ch11
Order No/Sample No:	27231945/A004277333-001
Test Voltage:	Battery
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

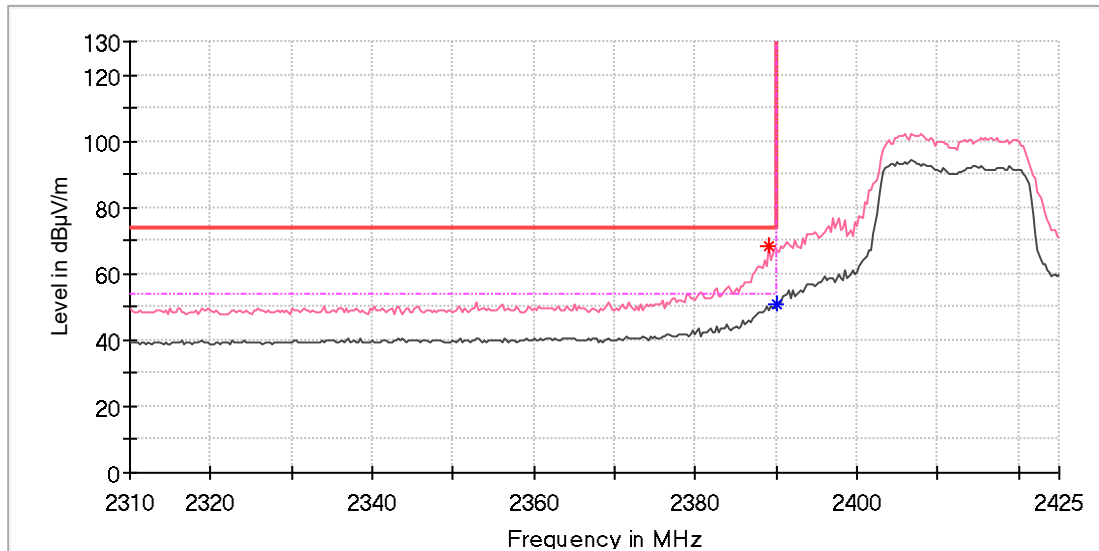
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	---	47.04	54.00	6.96	150.0	V	14.0	9.0
2483.823529	60.13	---	74.00	13.87	150.0	V	126.0	9.0

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.5-93.7	93.5-93.7	93.5-93.7	93.5-93.7	93.5-93.7	93.5-93.7		93.5-93.7	

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	RB05-B
Test Mode:	WIFI 2.4G_11n20_Ch1
Order No/Sample No:	27231945/A004277333-001
Test Voltage:	Battery
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

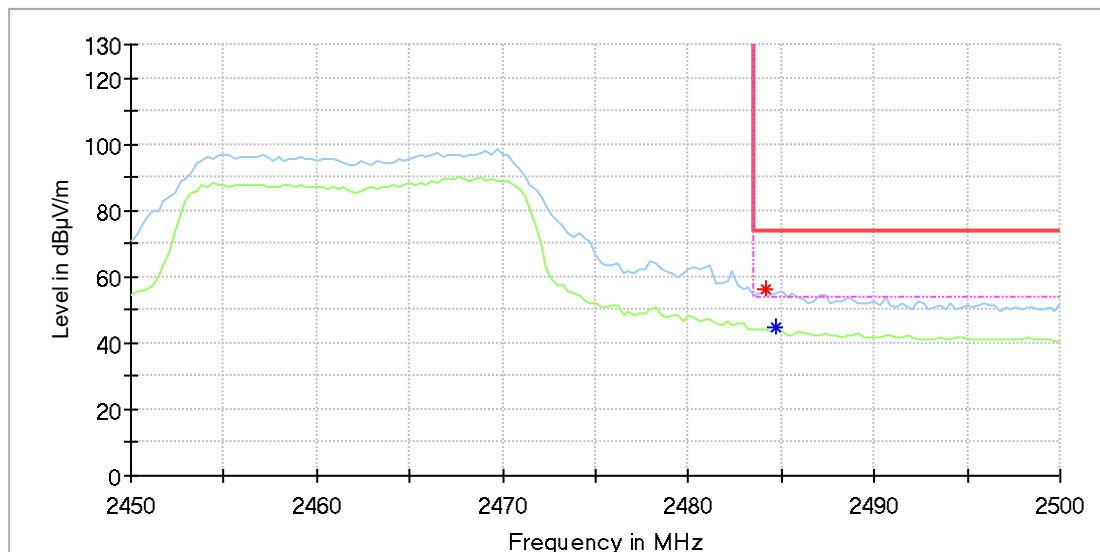
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.117647	68.52	---	74.00	5.48	150.0	V	181.0	8.5
2390.000000	---	50.78	54.00	3.22	150.0	V	208.0	8.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.75 MHz	93.75 dBμV/m	93.75 dBμV/m	93.75 dBμV/m	93.75 dB	93.75 cm		93.75 deg	93.75 dB/m

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	RB05-B
Test Mode:	WIFI 2.4G_11n20_Ch11
Order No/Sample No:	27231945/A004277333-001
Test Voltage:	Battery
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

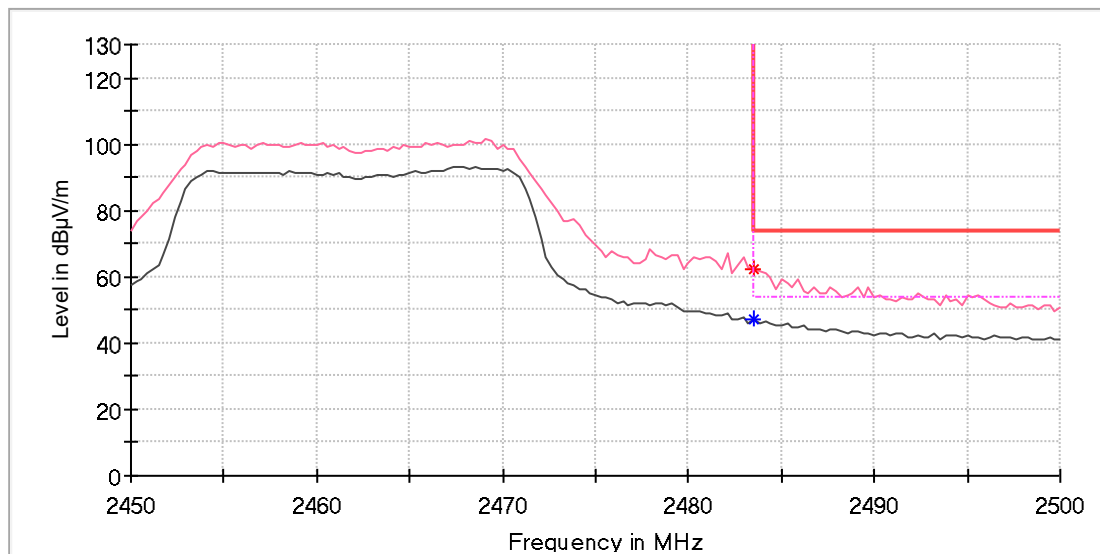
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.117647	56.00	---	74.00	18.00	150.0	H	318.0	9.0
2484.705882	---	44.61	54.00	9.39	150.0	H	249.0	9.0

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.5-93.7	93.5-93.7	93.5-93.7	93.5-93.7	93.5-93.7	93.5-93.7		93.5-93.7	

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	RB05-B
Test Mode:	WIFI 2.4G_11n20_Ch11
Order No/Sample No:	27231945/A004277333-001
Test Voltage:	Battery
Remark:	Temp 23.2°C 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)
2483.529412	62.38	---	74.00	11.62	150.0	V	339.0	9.0
2483.529412	---	46.98	54.00	7.02	150.0	V	339.0	9.0

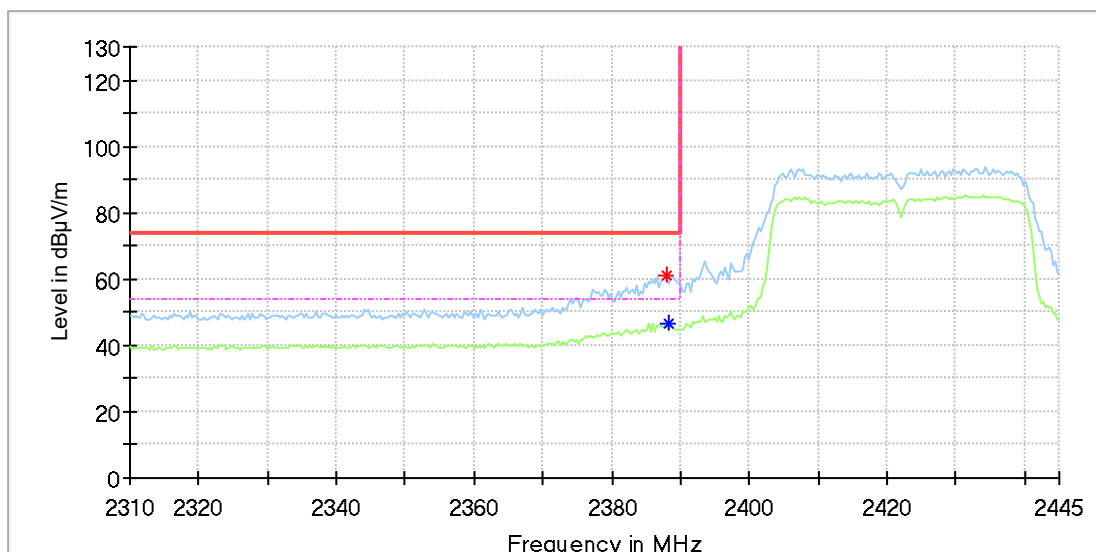
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.750000	93.750000	93.750000	93.750000	93.750000	93.750000		93.750000	93.750000

Wi-Fi 802.11 n(HT40) mode

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	RB05-B
Test Mode:	WIFI 2.4G_11n40_Ch3
Order No/Sample No:	27231945/A004277333-001
Test Voltage:	Battery
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

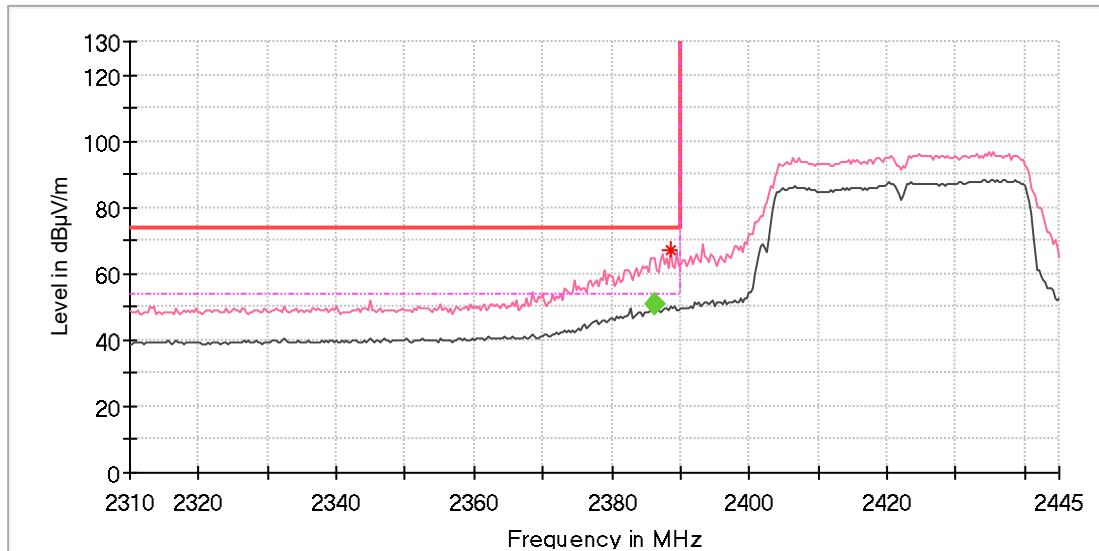
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2387.941177	60.95	---	74.00	13.05	150.0	H	37.0	8.5
2388.235294	---	46.54	54.00	7.46	150.0	H	144.0	8.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.75 MHz	128.00 dBμV/m	126.00 dBμV/m	120.00 dBμV/m	6.00 dB	30.00 cm			

EUT Information

EUT Name: Robot Vacuum Cleaner
Model: RB05-B
Test Mode: WIFI 2.4G_11n40_Ch3
Order No/Sample No: 27231945/A004277333-001
Test Voltage: Battery
Remark: Temp 23.2°C Humi:51%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

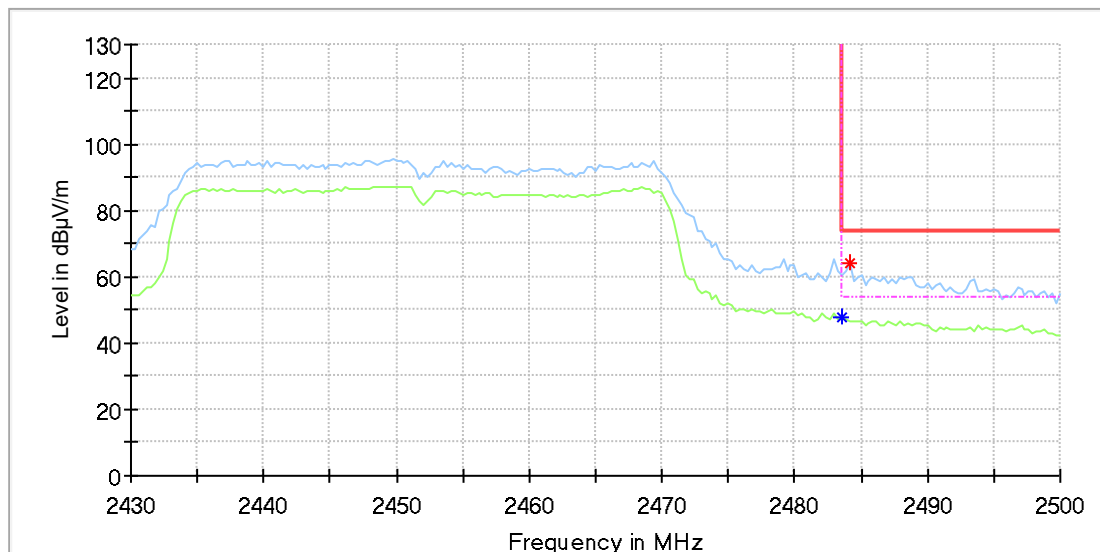
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2388.529412	67.32	---	74.00	6.68	150.0	V	0.0	8.5

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2386.176471	---	50.50	54.00	3.50	150.0	V	0.0	8.5

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	RB05-B
Test Mode:	WIFI 2.4G_11n40_Ch9
Order No/Sample No:	27231945/A004277333-001
Test Voltage:	Battery
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

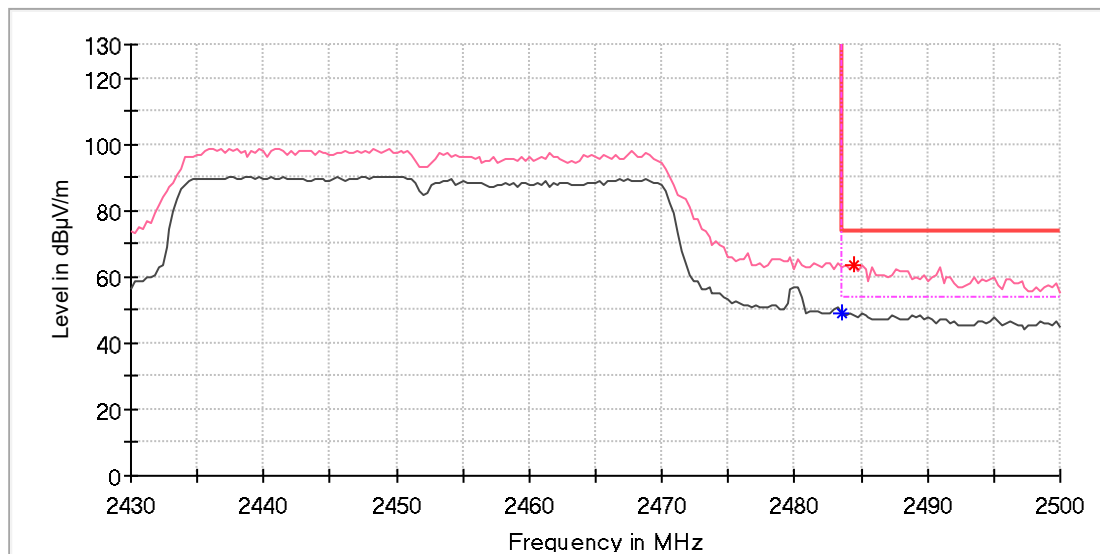
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	---	47.64	54.00	6.36	150.0	H	240.0	9.0
2484.117647	64.14	---	74.00	9.86	150.0	H	245.0	9.0

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.5-94.5	93.5-94.5	93.5-94.5	93.5-94.5	93.5-94.5	93.5-94.5		93.5-94.5	

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	RB05-B
Test Mode:	WIFI 2.4G_11n40_Ch9
Order No/Sample No:	27231945/A004277333-001
Test Voltage:	Battery
Remark:	Temp 23.2°C 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)
2483.529412	---	49.08	54.00	4.92	150.0	V	131.0	9.0
2484.411765	63.41	---	74.00	10.59	150.0	V	167.0	9.0

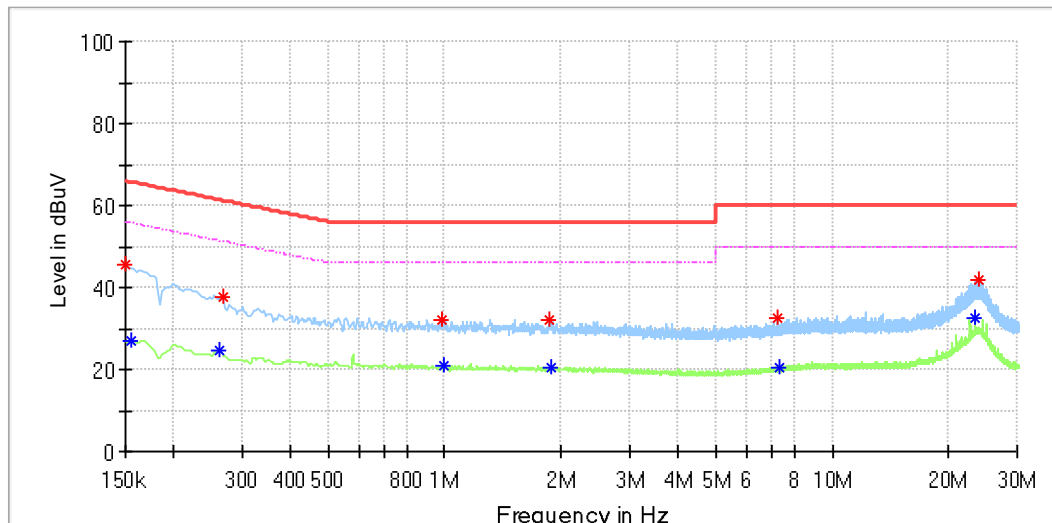
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.750000	93.750000	93.750000	93.750000	93.750000	93.750000		93.750000	93.750000

Appendix B.8: Test Results of Conducted Emission on AC Mains

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	RB05-B
Sample No:	A004301666-001
Test Mode:	Charging
Test Voltage:	AC 120V/60Hz
Remark:	Temp:23.4 ; Humi:50%
Test standard:	FCC PART 15
Tested By:	Charron Chen
Reviewed by:	Charlie Zha

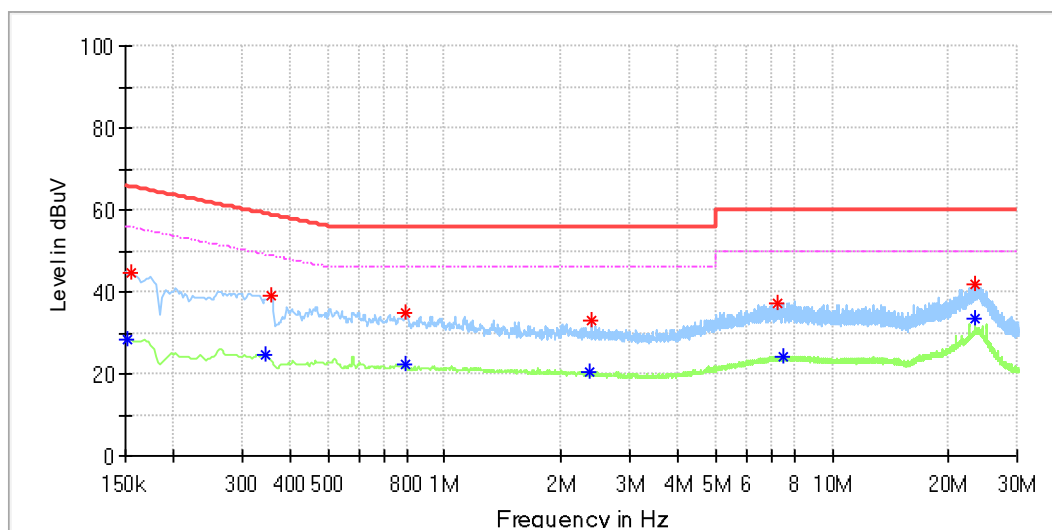


Critical Freqs

Frequency (MHz)	MaxPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.150	45.8	---	66.00	20.20	L1	9.5
0.155	---	27.2	55.73	28.57	L1	9.6
0.262	---	24.7	51.37	26.65	L1	9.7
0.267	37.8	---	61.21	23.44	L1	9.6
0.986	32.2	---	56.00	23.76	L1	9.7
0.996	---	21.0	46.00	25.02	L1	9.7
1.869	32.2	---	56.00	23.78	L1	9.6
1.874	---	20.3	46.00	25.69	L1	9.6
7.219	32.7	---	60.00	27.32	L1	9.9
7.272	---	20.6	50.00	29.36	L1	9.9
23.261	---	32.7	50.00	17.34	L1	9.8
23.868	41.8	---	60.00	18.23	L1	9.8

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	RB05-B
Sample No:	A004301666-001
Test Mode:	Charging
Test Voltage:	AC 120V/60Hz
Remark:	Temp:23.4 ; Humi:50%
Test standard:	FCC PART 15
Tested By:	Charron Chen
Reviewed by	Charlie Zha



Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.152	---	28.4	55.86	27.47	N	9.7
0.155	44.8	---	65.73	20.95	N	9.8
0.344	---	24.8	49.11	24.32	N	9.9
0.356	39.0	---	58.81	19.82	N	9.9
0.789	---	22.5	46.00	23.51	N	9.8
0.794	34.8	---	56.00	21.25	N	9.8
2.366	---	20.4	46.00	25.64	N	9.9
2.396	32.9	---	56.00	23.09	N	9.9
7.185	37.4	---	60.00	22.62	N	9.9
7.513	---	24.3	50.00	25.66	N	9.8
23.246	41.9	---	60.00	18.11	N	9.8
23.251	---	33.5	50.00	16.47	N	9.8

Final Result

Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
90.0	58.0	56.0	58.0	0.0	1000	9	1	0.0