

Prüfbericht-Nr.: <i>Test report no.:</i>	CN249DLP 001	Auftrags-Nr.: <i>Order no.:</i>	168513747	Seite 1 von 28 Page 1 of 28
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2024-11-14	
Auftraggeber: <i>Client:</i>	Shenzhen Aiper Intelligent Co., Ltd. Units 3201, 3203A and 3205, 32nd Floor, Block C, Phase 2 Galaxy World, Minle Community, Minzhi Street, Longhua District, Shenzhen, Guangdong, P.R. China			
Prüfgegenstand: <i>Test item:</i>	CORDLESS ROBOTIC POOL CLEANER			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	PRX9			
Auftrags-Inhalt: <i>Order content:</i>	Test Report			
Prüfgrundlage: <i>Test specification:</i>	EN 300 328 V2.2.2, EN 300 440 V2.1.1 EN IEC 62311: 2020 EN IEC 55014-1:2021, EN IEC 55014-2:2021 EN IEC 61000-3-2:2019 +A1 EN 61000-3-3:2013+A1+A2 EN 301 489-1 V2.2.3, EN 301 489-3 V2.3.2		EN 301 489-17 V3.2.4 EN 60335-1:2012+A11+A13+A14+A2+A15 EN IEC 60335-2-41:2021+A11:2021 EN 62233:2008, EN 62471:2008 EN 60825-1:2014+A11:2021	
Wareneingangsdatum: <i>Date of sample receipt:</i>	2024-11-20			
Prüfmuster-Nr.: <i>Test sample no.:</i>	A003867017-001~006 A003872682-001~006			
Prüfzeitraum: <i>Testing period:</i>	2024-12-05 - 2024-12-12			
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>	<input checked="" type="checkbox"/> <u>Breeze Jiang</u>	genehmigt von: <i>authorized by:</i>	<input checked="" type="checkbox"/> <u>Lin Lin</u>	
Datum: <i>Date:</i> 2025-01-03	Signed by: Breeze Jiang	Ausstellungsdatum: <i>Issue date:</i> 2025-01-03	Signed by: Lin Lin	
Stellung / Position:	Sachverständige(r)/Expert	Stellung / Position:	Sachverständige(r)/Expert	
Sonstiges / <i>Other:</i>	This report is for RED Article 3.2 Radio Spectrum of Bluetooth dual mode requirements. Refer to TÜV Rheinland report CN249DLP 002 for RED Article 3.2 Radio Spectrum of 2.4GHz Wi-Fi requirements. Refer to TÜV Rheinland report CN249DLP 003 for RED Article 3.2 Radio Spectrum of 2.4GHz SRD requirements. Refer to TÜV Rheinland report CN249DLP 004 for Article 3.1a Health requirements. Refer to TÜV Rheinland report CN24R323 001 and CN24O0AA 001 for Article 3.1b EMC requirements Refer to TÜV Rheinland report CN243AYZ 001, CN24MMBK 002 and CN241JMO 001 for details of Article 3.1a Electrical Safety requirements.			
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:	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
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Prüfbericht-Nr.: CN249DLP 001
Test report no.:

Seite 2 von 28
Page 2 of 28

Anmerkungen
Remarks

- | | |
|---|--|
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Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><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></p> |
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| 3 | <p>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.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.
Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p> |
| 4 | <p>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</p> <p><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 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i></p> |

Test Summary

5.1.1 RF OUTPUT POWER*RESULT: Pass***5.1.2 POWER SPECTRAL DENSITY***RESULT: Pass***5.1.3 DUTY CYCLE, TX-SEQUENCE, TX-GAP***RESULT: Not applicable***5.1.4 ACCUMULATED TRANSMIT TIME, FREQUENCY OCCUPATION AND HOPPING SEQUENCE***RESULT: Pass***5.1.5 HOPPING FREQUENCY SEPARATION***RESULT: Pass***5.1.6 MEDIUM UTILISATION (MU) FACTOR***RESULT: Not applicable***5.1.7 ADAPTIVITY***RESULT: Not applicable***5.1.8 OCCUPIED CHANNEL BANDWIDTH***RESULT: Pass***5.1.9 TRANSMITTER UNWANTED EMISSIONS IN THE OOB DOMAIN***RESULT: Pass***5.1.10 TRANSMITTER UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN***RESULT: Pass***5.2.1 RECEIVER SPURIOUS EMISSIONS***RESULT: Pass***5.2.2 RECEIVER BLOCKING***RESULT: Pass***5.2.3 GEO-LOCATION CAPABILITY***RESULT: Not applicable*

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	UNCERTAINTY OF MEASUREMENT	7
3	GENERAL PRODUCT INFORMATION.....	8
3.1	PRODUCT FUNCTION AND INTENDED USE.....	8
3.2	RATINGS AND SYSTEM DETAILS	8
3.3	INDEPENDENT OPERATION MODES	10
3.4	NOISE GENERATING AND NOISE SUPPRESSING PARTS	10
3.5	SUBMITTED DOCUMENTS.....	10
4	TEST SET-UP AND OPERATION MODES	11
4.1	PRINCIPLE OF CONFIGURATION SELECTION	11
4.2	TEST OPERATION AND TEST SOFTWARE	11
4.3	SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT	11
4.4	COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE	11
5	TEST RESULTS.....	12
5.1	TRANSMITTER REQUIREMENTS & TEST SUITES.....	12
5.1.1	<i>RF Output Power.....</i>	<i>12</i>
5.1.2	<i>Power Spectral Density</i>	<i>14</i>
5.1.3	<i>Duty Cycle, TX-sequence, TX-gap.....</i>	<i>15</i>
5.1.4	<i>Accumulated Transmit Time, Frequency Occupation and Hopping Sequence</i>	<i>16</i>
5.1.5	<i>Hopping Frequency Separation</i>	<i>17</i>
5.1.6	<i>Medium Utilisation (MU) Factor.....</i>	<i>18</i>
5.1.7	<i>Adaptivity</i>	<i>19</i>
5.1.8	<i>Occupied Channel Bandwidth.....</i>	<i>20</i>
5.1.9	<i>Transmitter Unwanted Emissions in the OOB Domain</i>	<i>21</i>
5.1.10	<i>Transmitter Unwanted Emissions in the Spurious Domain</i>	<i>22</i>
5.2	RECEIVER REQUIREMENT & TEST SUITES	23
5.2.1	<i>Receiver Spurious Emissions</i>	<i>23</i>
5.2.2	<i>Receiver Blocking.....</i>	<i>24</i>
5.2.3	<i>Geo-location Capability</i>	<i>25</i>
6	PHOTOGRAPHS OF THE TEST SET-UP.....	26
7	LIST OF TABLES	28
8	LIST OF PHOTOGRAPHS	28

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 BR & EDR

Appendix B: Test Results of Bluetooth LE

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

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

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radio Spectrum Testing (SRD-Tonscend)					
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. until
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY60241175	2024-09-26	2025-09-25
MXG X-Series RF Vector Signal Generator	Keysight	N5182B	MY61250137	2024-09-26	2025-09-25
EXG X-Series Microwave Analog Signal Generator	Keysight	N5173B	MY61250141	2024-09-26	2025-09-25
DC Power Supply	Keysight	E3642A	MY61276100	2024-09-26	2025-09-25
Wireless Connectivity Tester	R&S	CMW270	102505	2024-09-26	2025-09-25
Power Control Unit	Tonscend	JS0806-4ADC	N/A	2024-09-26	2025-09-25
Automation Control Unit	Tonscend	JS0806-2	21C8060396	2024-09-26	2025-09-25
Test Software	Tonscend	JS1120-3	N/A	N/A	N/A
Control PC	Lenovo	TianYi510S-071MB	YLX23JMF	N/A	N/A
OSP	R&S	OSP 150	101017	2024-10-31	2025-10-30
Humid & Temp Programmable Tester	BOST	NTH090-60	19040801	2024-03-01	2025-02-28
Shielding Room	Albatross	SR1	APC17151-SR1	2024-09-14	2027-09-13
Unwanted Emission Testing (TS8996)					
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. until
Signal Generator	R&S	SMB100A	180840	2024-09-29	2025-09-28
Wideband Radio Communication Tester	R&S	CMW500	165339	2024-09-29	2025-09-28
Signal Analyzer	R&S	FSV 40	101440	2024-09-29	2025-09-28
System Controller Interface	R&S	SCI-100	S10010036	N/A	N/A
OSP	R&S	OSP 120	102041	N/A	N/A
OSP	R&S	OSP 150	101385	2024-10-29	2025-10-28
Pre-amplifier	R&S	SCU08F1	08320030	2024-09-29	2025-09-28
Amplifier	R&S	SCU-18F	180079	2024-09-29	2025-09-28

Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	192	2024-10-07	2026-10-06
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218719	2024-10-07	2026-10-06
Wideband Ridged Horn Antenna (12-18 GHz)	Steatite	QMS-00208	18312	2024-10-07	2026-10-06
Biconical Broadband Antenna (30 MHz - 1 GHz)	Schwarzbeck	VUBA 9117	357	2024-10-07	2026-10-06
Double Ridged Broadband Horn Antenna (1 – 18 GHz)	Schwarzbeck	BBHA 9120 D	01760	2024-10-07	2026-10-06
Test software	R&S	EMC32 (V10.50.40)	N/A	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NW9P2	N/A	N/A
3m Fully Anechoic Chamber	Albatross	FAC-3m	APC17151-FAC	2024-09-14	2027-09-13

2.3 Uncertainty of Measurement

The value of the measurement uncertainty of each parameter is listed as below:

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
Radiated Emission of Transmitter, valid up to 26.5 GHz	± 3.68 dB
Radiated Emission of Receiver, valid up to 26.5 GHz	± 3.68 dB

3 General Product Information

3.1 Product Function and Intended Use

The EUTs are CORDLESS ROBOTIC POOL CLEANER, its supports bluetooth dual mode, 2.4GHz Wi-Fi and 2.4GHz SRD wireless technologies.

For details refer to the User Manual.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment:	CORDLESS ROBOTIC POOL CLEANER
Type Designation:	PRX9
Operating Voltage:	DC 25.2V input via internal rechargeable Li-ion battery
Test Voltage:	Fully charged battery
Operating Temperature Range:	0 °C ~ +40 °C
Technical Specification of Bluetooth (dual mode)	
Characteristic	Description
Operating Frequency:	2402 MHz to 2480 MHz
Type of Modulation:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Channel Number:	BR & EDR mode:79 channels; Low Energy mode:40 channels
Channel Separation:	BR & EDR mode: 1MHz; Low Energy mode: 2MHz
Data Rate:	BR & EDR mode: 1Mbps, 2Mbps, 3Mbps Low Energy mode: 1Mbps
Receiver category:	BR & EDR mode: Receiver category 2 Low Energy mode: Receiver category 2
Antenna Type:	External glue stick antenna
Antenna Gain:	3.02 dBi (Provided by the Client)

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 BR & EDR

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

Test frequencies are lowest channel: 2402 MHz, middle channel: 2441 MHz and highest channel: 2480 MHz for Bluetooth BR & EDR

Table 5: RF Channel and Frequency of Bluetooth LE

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

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Bluetooth wireless (BR & EDR mode)
 - 1 Transmitting (Low / Middle / High channel)
 - 2 Receiving (Low / Middle / High channel)
- B. On, Bluetooth wireless (Bluetooth LE mode)
 - 1 Transmitting (Low / Middle / High channel)
 - 2 Receiving (Low / Middle / High channel)
- C. On, Bluetooth Hopping mode
- D. Off

3.4 Noise Generating and Noise Suppressing Parts

For details refer to the Circuit Diagram.

3.5 Submitted Documents

- Application Form

- User Manual

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.

According to clause 3.1, all tests were performed on model *PRX9* in this report.

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.

5 Test Results

5.1 Transmitter Requirements & Test Suites

5.1.1 RF Output Power

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

Test standard	: EN 300 328 V2.2.2
Test requirement	: Clause 4.3.1.2 of EN 300 328 V2.2.2 Clause 4.3.2.2 of EN 300 328 V2.2.2
Limit	: Clause 4.3.1.2.3 of EN 300 328 V2.2.2 Clause 4.3.2.2.3 of EN 300 328 V2.2.2
Test suites	: Clause 5.4.2 of EN 300 328 V2.2.2
Kind of test site	: Shielding Room

Test Setup

Date of testing	: 2024-12-05 to 2024-12-12
Test voltage	: Fully charged battery
Test environment	: Normal and extreme temperature
Operation mode	: B.1, C
Ambient temperature	: 24.8 °C
Relative humidity	: 55 %
Atmospheric pressure	: 101 kPa

For details refer to following test result.

Table 7: Test Result of RF Output Power, Bluetooth BR & EDR

Test Mode	Test Conditions		Measured e.i.r.p. (dBm)
GFSK (BR)	Normal	+24.8 °C	7.86
	Extreme	0 °C	8.23
		+40 °C	7.55
	Maximum Measured Value		
8DPSK (EDR)	Normal	+24.8 °C	6.27
	Extreme	0 °C	6.63
		+40 °C	5.95
	Maximum Measured Value		
Limit			≤ 100mW (20dBm)

Table 8: Test Result of RF Output Power, Bluetooth LE

Test Mode	Test Conditions		Measured e.i.r.p. (dBm)		
			Low Channel	Middle Channel	High Channel
Bluetooth LE (1 Mbps)	Normal	+24.8 °C	8.67	8.51	8.03
	Extreme	0 °C	9.04	8.88	8.40
		+40 °C	8.36	8.20	7.72
	Maximum Measured Value			9.04	
Limit			≤ 100mW (20dBm)		

NOTE:

The RF Output Power (E.I.R.P.) should be calculated using the formula below:

 The RF Output Power (E.I.R.P.) = $A_{(RMS\ power)} + G + Y$

Antenna gain(G): 3.02 dBi

5.1.2 Power Spectral Density

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

Test standard	:	EN 300 328 V2.2.2
Test requirement	:	Clause 4.3.2.3 of EN 300 328 V2.2.2
Limit	:	Clause 4.3.2.3.3 of EN 300 328 V2.2.2
Test suites	:	Clause 5.4.3 of EN 300 328 V2.2.2
Kind of test site	:	Shielding Room

Test Setup

Date of testing	:	2024-12-12
Test voltage	:	Fully charged battery
Test environment	:	Normal temperature
Operation mode	:	B.1
Ambient temperature	:	24.8 °C
Relative humidity	:	55 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix B.

5.1.3 Duty Cycle, TX-sequence, TX-gap

RESULT:**Not applicable****Test Specification**

Test standard	:	EN 300 328 V2.2.2
Test requirement	:	Clause 4.3.1.3 of EN 300 328 V2.2.2 Clause 4.3.2.4 of EN 300 328 V2.2.2

Exemption Condition(s):

These requirements apply to non-adaptive equipment or to adaptive equipment when operating in non-adaptive mode. The equipment is using wide band modulations other than FHSS.

Conclusion:

The EUT is adaptive equipment and does not support non-adaptive mode, hence this requirement is not applicable.

5.1.4 Accumulated Transmit Time, Frequency Occupation and Hopping Sequence

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

Test standard	: EN 300 328 V2.2.2
Test requirement	: Clause 4.3.1.4 of EN 300 328 V2.2.2
Limit	: Clause 4.3.1.4.3 of EN 300 328 V2.2.2
Test suites	: Clause 5.4.4 of EN 300 328 V2.2.2
Kind of test site	: Shielding Room

Test Setup

Date of testing	: 2024-12-05
Test voltage	: Fully charged battery
Test environment	: Normal temperature
Operation mode	: C
Ambient temperature	: 24.8 °C
Relative humidity	: 55 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

5.1.5 Hopping Frequency Separation

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

Test standard	:	EN 300 328 V2.2.2
Test requirement	:	Clause 4.3.1.5 of EN 300 328 V2.2.2
Limit	:	Clause 4.3.1.5.3 of EN 300 328 V2.2.2
Test suites	:	Clause 5.4.5 of EN 300 328 V2.2.2
Kind of test site	:	Shielding Room

Test Setup

Date of testing	:	2024-12-05
Test voltage	:	Fully charged battery
Test environment	:	Normal temperature
Operation mode	:	C
Ambient temperature	:	24.8 °C
Relative humidity	:	55 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix A.

Prüfbericht - Nr.: **CN249DLP 001**
Test Report No.:Seite 18 von 28
Page 18 of 28

5.1.6 Medium Utilisation (MU) Factor

RESULT:**Not applicable****Test Specification**

Test standard : EN 300 328 V2.2.2
Test requirement : Clause 4.3.1.6 of EN 300 328 V2.2.2
Clause 4.3.2.5 of EN 300 328 V2.2.2

Exemption Condition(s):

These requirements apply to non-adaptive equipment or to adaptive equipment when operating in non-adaptive mode. The equipment is using wide band modulations other than FHSS.

Conclusion:

The EUT is adaptive equipment and does not support non-adaptive mode, hence this requirement is not applicable.

5.1.7 Adaptivity

RESULT:**Not applicable****Test Specification**

Test standard	:	EN 300 328 V2.2.2
Test requirement	:	Clause 4.3.1.7 of EN 300 328 V2.2.2 Clause 4.3.2.6 of EN 300 328 V2.2.2
Limit	:	Clause 4.3.1.7 of EN 300 328 V2.2.2 Clause 4.3.2.6 of EN 300 328 V2.2.2

Exemption Conditions:

These requirements do not apply for equipment with a maximum declared RF Output power of less than 10 dBm e.i.r.p. or for equipment when operating in a mode where the RF Output power is less than 10 dBm e.i.r.p.

Conclusion:

The EUT is adaptive equipment and does not support non-adaptive mode, the maximum declared RF output power is less than 10dBm e.i.r.p., hence this requirement is not applicable.

5.1.8 Occupied Channel Bandwidth

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

Test standard	:	EN 300 328 V2.2.2
Test requirement	:	Clause 4.3.1.8 of EN 300 328 V2.2.2 Clause 4.3.2.7 of EN 300 328 V2.2.2
Limit	:	Clause 4.3.1.8.3 of EN 300 328 V2.2.2 Clause 4.3.2.7.3 of EN 300 328 V2.2.2
Test suites	:	Clause 5.4.7 of EN 300 328 V2.2.2
Kind of test site	:	Shielding Room

Test Setup

Date of testing	:	2024-12-05 to 2024-12-12
Test voltage	:	Fully charged battery
Test environment	:	Normal temperature
Operation mode	:	A.1, B.1
Ambient temperature	:	24.8 °C
Relative humidity	:	55 %
Atmospheric pressure	:	101 kPa

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

5.1.9 Transmitter Unwanted Emissions in the OOB Domain

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

Test standard	:	EN 300 328 V2.2.2
Test requirement	:	Clause 4.3.1.9 of EN 300 328 V2.2.2 Clause 4.3.2.8 of EN 300 328 V2.2.2
Limit	:	Clause 4.3.1.9.3 of EN 300 328 V2.2.2 Clause 4.3.2.8.3 of EN 300 328 V2.2.2
Test suites	:	Clause 5.4.8 of EN 300 328 V2.2.2
Kind of test site	:	Shielding Room

Test Setup

Date of testing	:	2024-12-05 to 2024-12-12
Test voltage	:	Fully charged battery
Test environment	:	Normal temperature
Operation mode	:	B.1, C
Ambient temperature	:	24.8 °C
Relative humidity	:	55 %
Atmospheric pressure	:	101 kPa

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

5.1.10 Transmitter Unwanted Emissions in the Spurious Domain**RESULT:** **Pass****Test Specification**

Test standard	:	EN 300 328 V2.2.2
Test requirement	:	Clause 4.3.1.10 of EN 300 328 V2.2.2 Clause 4.3.2.9 of EN 300 328 V2.2.2
Limit	:	Clause 4.3.1.10.3 of EN 300 328 V2.2.2 Clause 4.3.2.9.3 of EN 300 328 V2.2.2
Test suites	:	Clause 5.4.9 of EN 300 328 V2.2.2
Kind of test site	:	3m Fully Anechoic Room

Test Setup

Date of testing	:	2024-12-09 to 2024-12-10
Test voltage	:	Fully charged battery
Test environment	:	Normal temperature
Operation mode	:	A.1, B.1
Ambient temperature	:	Refer to test results
Relative humidity	:	Refer to test results
Atmospheric pressure	:	101 kPa

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

5.2 Receiver Requirement & Test Suites

5.2.1 Receiver Spurious Emissions

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

Test standard	:	EN 300 328 V2.2.2
Test requirement	:	Clause 4.3.1.11 of EN 300 328 V2.2.2 Clause 4.3.2.10 of EN 300 328 V2.2.2
Limit	:	Clause 4.3.1.11.3 of EN 300 328 V2.2.2 Clause 4.3.2.10.3 of EN 300 328 V2.2.2
Test suites	:	Clause 5.4.10 of EN 300 328 V2.2.2
Kind of test site	:	3m Fully Anechoic Room

Test Setup

Date of testing	:	2024-12-09 to 2024-12-10
Test voltage	:	Fully charged battery
Test environment	:	Normal temperature
Operation mode	:	A.2, B.2
Ambient temperature	:	Refer to test results
Relative humidity	:	Refer to test results
Atmospheric pressure	:	101 kPa

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

5.2.2 Receiver Blocking

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

Test standard	:	EN 300 328 V2.2.2
Test requirement	:	Clause 4.3.1.12 of EN 300 328 V2.2.2 Clause 4.3.2.11 of EN 300 328 V2.2.2
Limit	:	Clause 4.3.1.12.4 of EN 300 328 V2.2.2 Clause 4.3.2.11.4 of EN 300 328 V2.2.2
Test suites	:	Clause 5.4.11 of EN 300 328 V2.2.2
Kind of test site	:	Shielding Room

Test Setup

Date of testing	:	2024-12-05 to 2024-12-12
Test voltage	:	Fully charged battery
Test environment	:	Normal temperature
Operation mode	:	A.2, B.2
Ambient temperature	:	24.8 °C
Relative humidity	:	55 %
Atmospheric pressure	:	101 kPa

Receiver category

Adaptive equipment with a maximum RF output power greater than 0 dBm e.i.r.p. and less than or equal to 10dBm e.i.r.p. shall be considered as receiver category 2 equipment.

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

5.2.3 Geo-location Capability

RESULT:

Not applicable

Test Specification

Test standard : EN 300 328 V2.2.2
Test requirement : Clause 4.3.1.13 of EN 300 328 V2.2.2
Clause 4.3.2.12 of EN 300 328 V2.2.2

Exemption Condition(s):

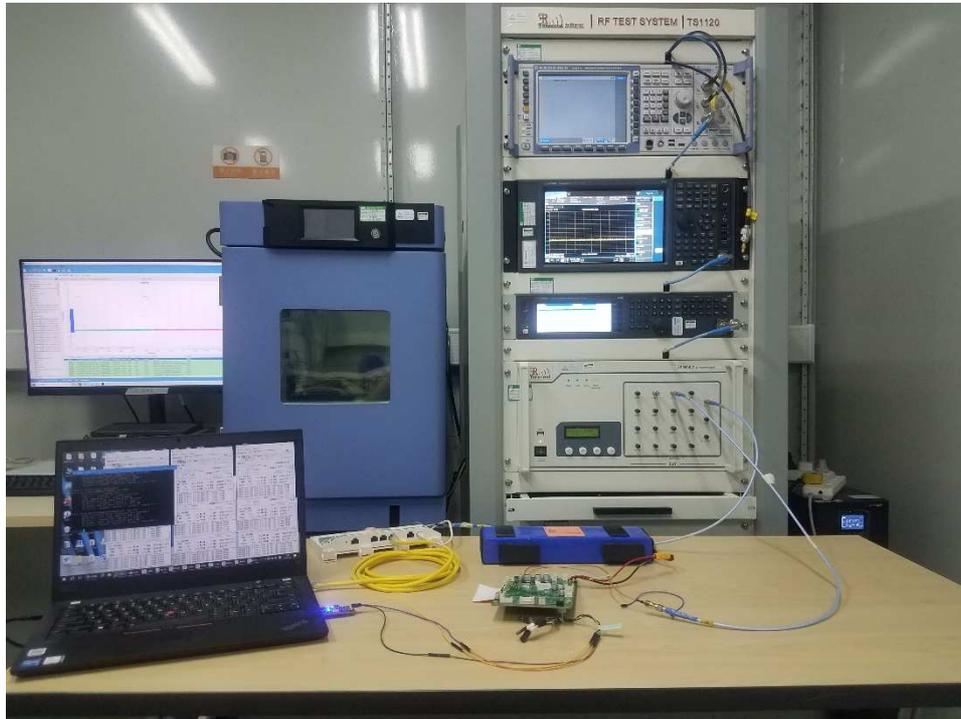
This requirement only applies to equipment with geo-location capability as defined in clause 4.3.1.13.1 and 4.3.2.12.2.

Conclusion:

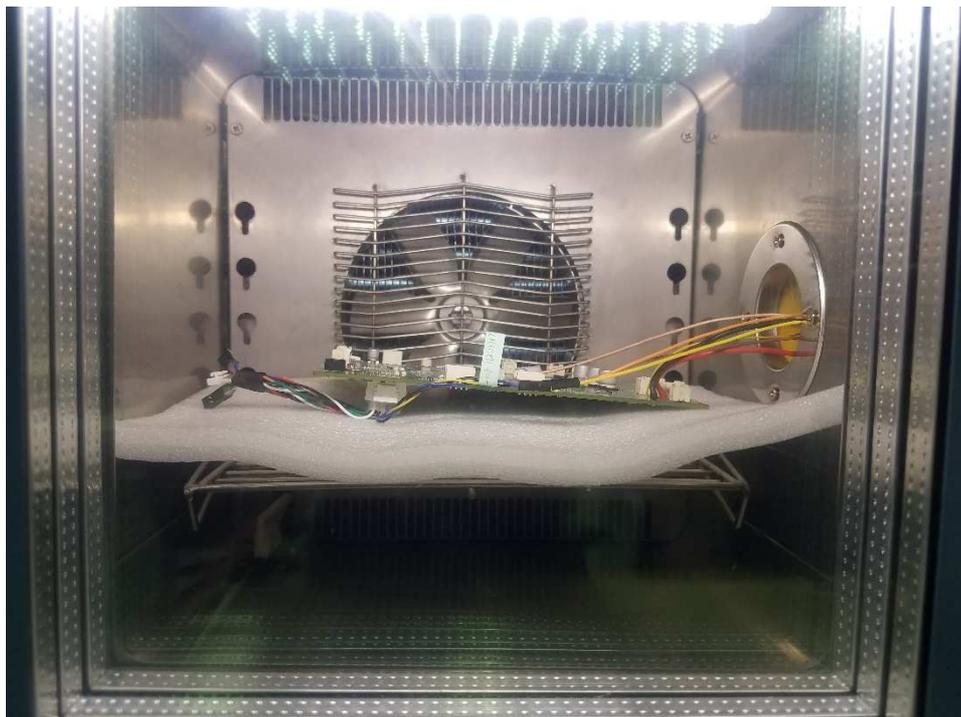
The EUT is adaptive equipment and does not support geo-location capability, hence this requirement is not applicable.

6 Photographs of the Test Set-Up

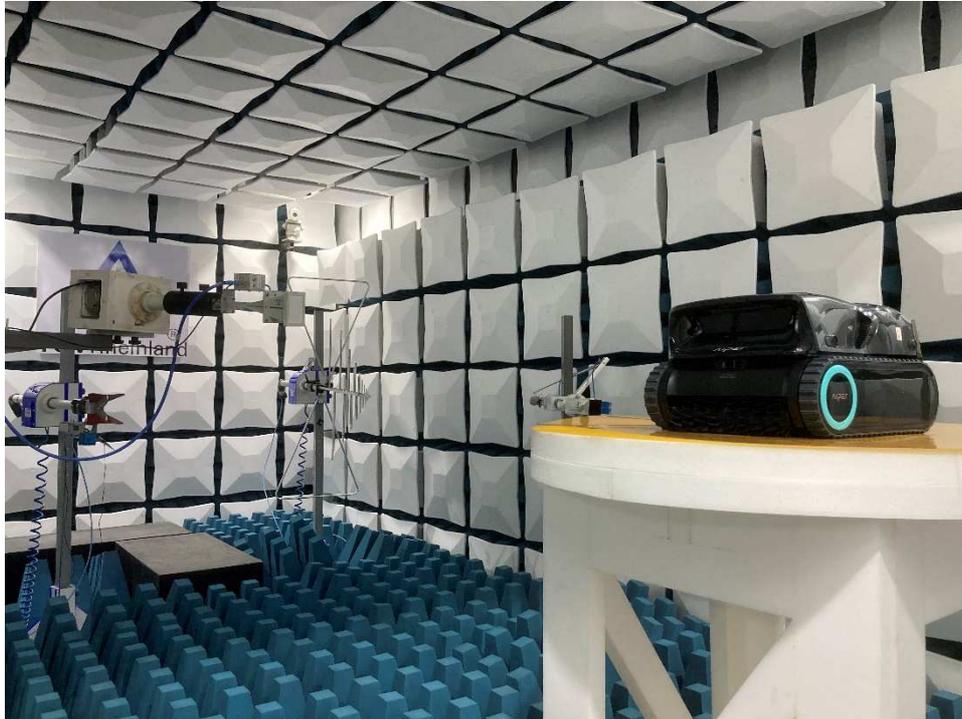
Photograph 1: Set-up for Radio Spectrum Testing, Normal Condition



Photograph 2: Set-up for Radio Spectrum Testing, Extreme Condition



Photograph 3: Set-up for Transmitter & Receiver Spurious Emissions, Below & Above 1GHz



7 List of Tables

Table 1: List of Test and Measurement Equipment.....	6
Table 2: Measurement Uncertainty.....	7
Table 3: Technical Specification of EUT	8
Table 4: RF Channel and Frequency of Bluetooth BR & EDR.....	9
Table 5: RF Channel and Frequency of Bluetooth LE.....	9
Table 6: List of Accessories and Auxiliary Equipment.....	11
Table 7: Test Result of RF Output Power, Bluetooth BR & EDR.....	13
Table 8: Test Result of RF Output Power, Bluetooth LE	13

8 List of Photographs

Photograph 1: Set-up for Radio Spectrum Testing, Normal Condition	26
Photograph 2: Set-up for Radio Spectrum Testing, Extreme Condition.....	26
Photograph 3: Set-up for Transmitter & Receiver Spurious Emissions, Below & Above 1GHz ..	27

Appendix A: Test Results of Bluetooth BR & EDR

APPENDIX A: TEST RESULTS OF BLUETOOTH BR & EDR	1
APPENDIX A.1: TEST RESULTS OF ACCUMULATED TRANSMIT TIME AND FREQUENCY OCCUPATION	2
<i>Accumulated Transmit Time</i>	2
<i>Frequency Occupation</i>	5
<i>Hopping Sequence</i>	9
APPENDIX A.2: TEST RESULTS OF HOPPING FREQUENCY SEPARATION	12
APPENDIX A.3: TEST RESULTS OF OCCUPIED CHANNEL BANDWIDTH	14
APPENDIX A.4: TEST RESULTS OF TRANSMITTER UNWANTED EMISSIONS IN THE OUT-OF-BAND DOMAIN	17
<i>Normal Operation (Hopping)</i>	17
APPENDIX A.5: TEST RESULTS OF TRANSMITTER UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN	20
<i>FHSS, Below 1GHz</i>	20
<i>FHSS, Above 1GHz</i>	24
APPENDIX A.6: TEST RESULTS OF RECEIVER SPURIOUS EMISSIONS	28
<i>FHSS, Below 1GHz</i>	28
<i>FHSS, Above 1GHz</i>	32
APPENDIX A.7: TEST RESULTS OF RECEIVER BLOCKING OF FHSS	36
<i>BR Mode (Worst-case)</i>	36

Appendix A.1: Test Results of Accumulated Transmit Time and Frequency Occupation

Accumulated Transmit Time

TestMode	Antenna	Channel	Result [ms]	Limit [ms]	Verdict
DH5	Ant1	Hop_2402	270.724	400	PASS
		Hop_2480	334.981	400	PASS
3DH5	Ant1	Hop_2402	316.020	400	PASS
		Hop_2480	272.831	400	PASS

DH5 Ant1 Hop 2402



DH5 Ant1 Hop 2480



3DH5 Ant1 Hop 2402





Frequency Occupation

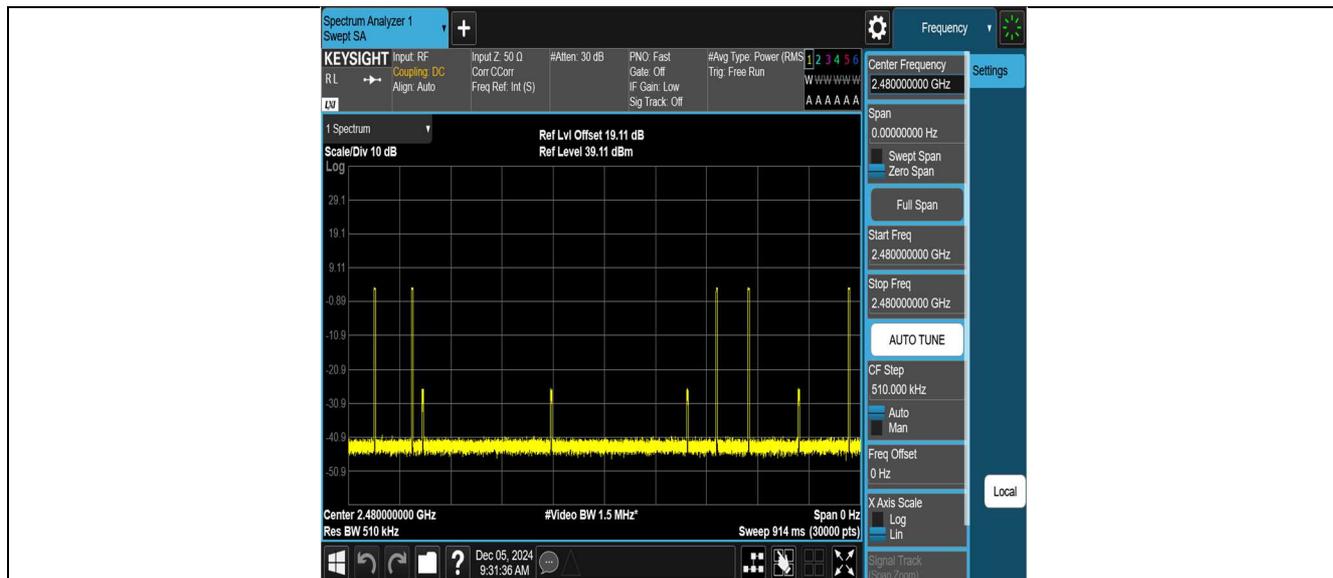
TestMode	Antenna	Channel	Result [Num.]	Limit [Num.]	Verdict
DH5	Ant1	Hop_2402	5	1	PASS
		Hop_2480	5	1	PASS
3DH5	Ant1	Hop_2402	4	1	PASS
		Hop_2480	5	1	PASS

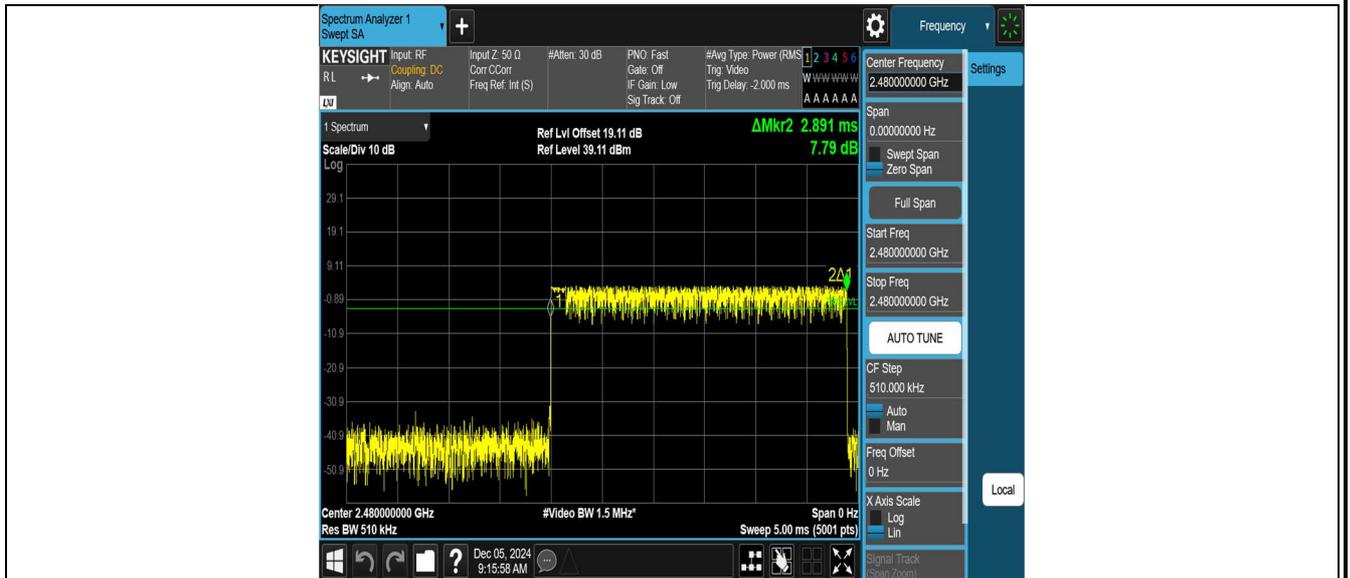
DH5 Ant1 Hop 2402



DH5 Ant1 Hop 2480



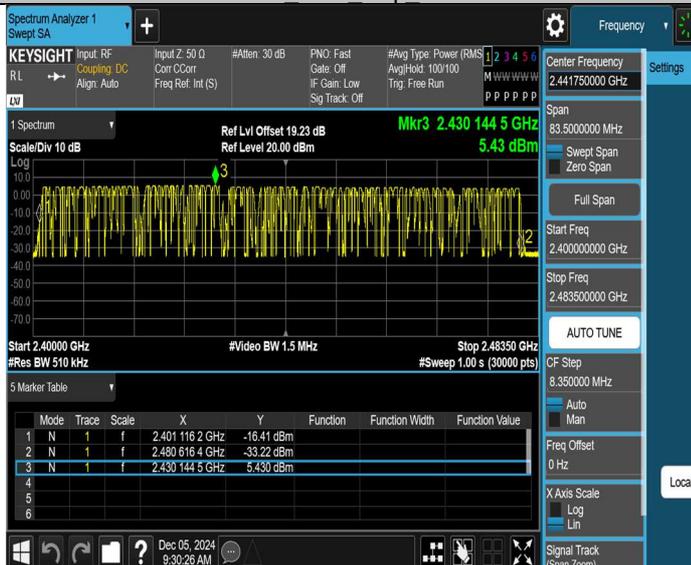




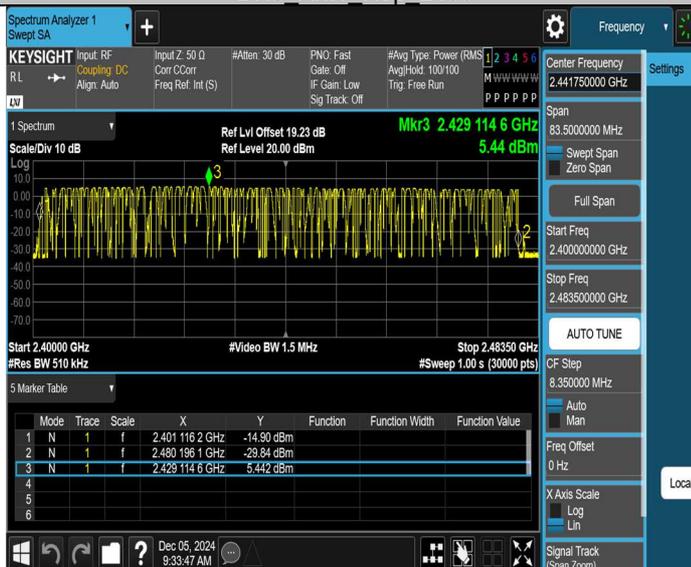
Hopping Sequence

TestMode	Antenna	Channel	Hop. [Num.]	Limit [Num.]	Band Use [%]	Limit [%]	Verdict
DH5	Ant1	Hop_2402	79	15	95.21	70	PASS
		Hop_2480	79	15	94.71	70	PASS
3DH5	Ant1	Hop_2402	79	15	95.99	70	PASS
		Hop_2480	79	15	95.78	70	PASS

DH5 Ant1 Hop 2402

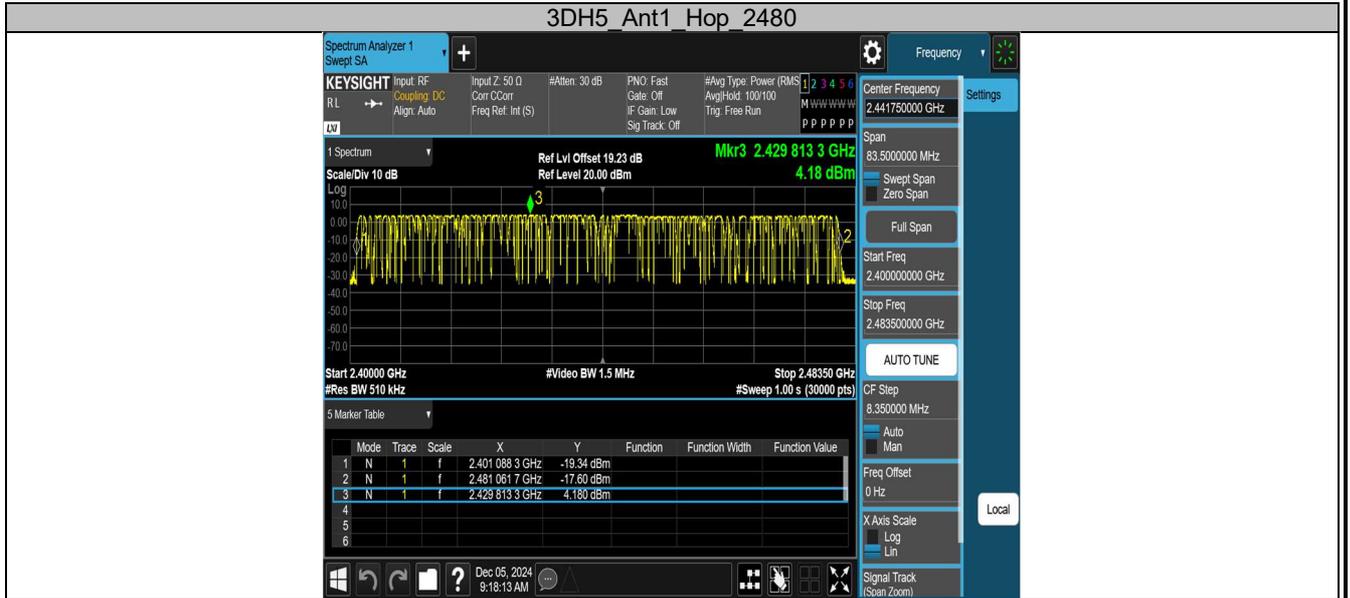


DH5 Ant1 Hop 2480



3DH5 Ant1 Hop 2402





Appendix A.2: Test Results of Hopping Frequency Separation

TestMode	Antenna	Channel	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	0.996	0.100	PASS
3DH5	Ant1	Hop	0.842	0.100	PASS

DH5 Ant1 Hop



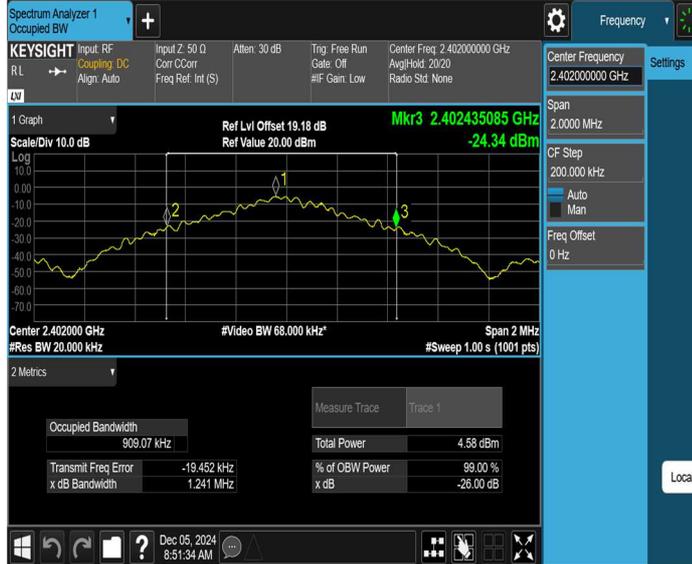
3DH5 Ant1 Hop



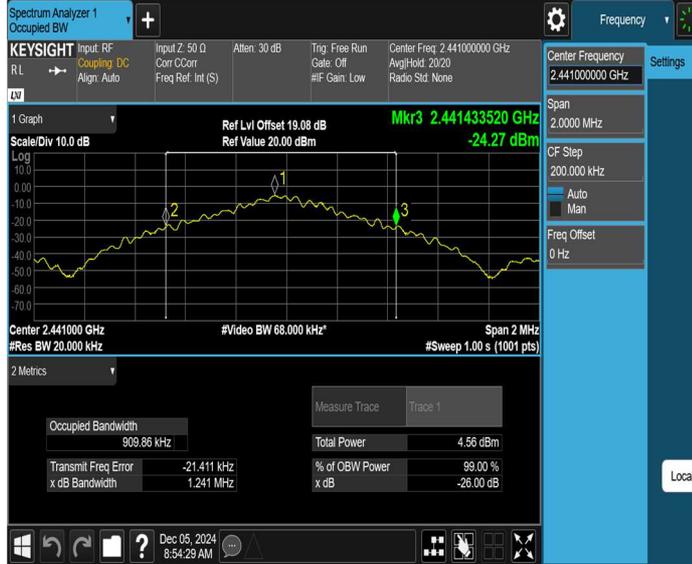
Appendix A.3: Test Results of Occupied Channel Bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.90907	2401.5260	2402.4351	2400 to 2483.5	PASS
		2441	0.90986	2440.5237	2441.4335	2400 to 2483.5	PASS
		2480	0.91032	2479.5210	2480.4313	2400 to 2483.5	PASS
3DH5	Ant1	2402	1.2278	2401.3608	2402.5886	2400 to 2483.5	PASS
		2441	1.2287	2440.3583	2441.5870	2400 to 2483.5	PASS
		2480	1.2345	2479.3536	2480.5881	2400 to 2483.5	PASS

DH5 Ant1 2402



DH5 Ant1 2441



DH5 Ant1 2480



3DH5 Ant1 2402



3DH5 Ant1 2441



3DH5 Ant1 2480

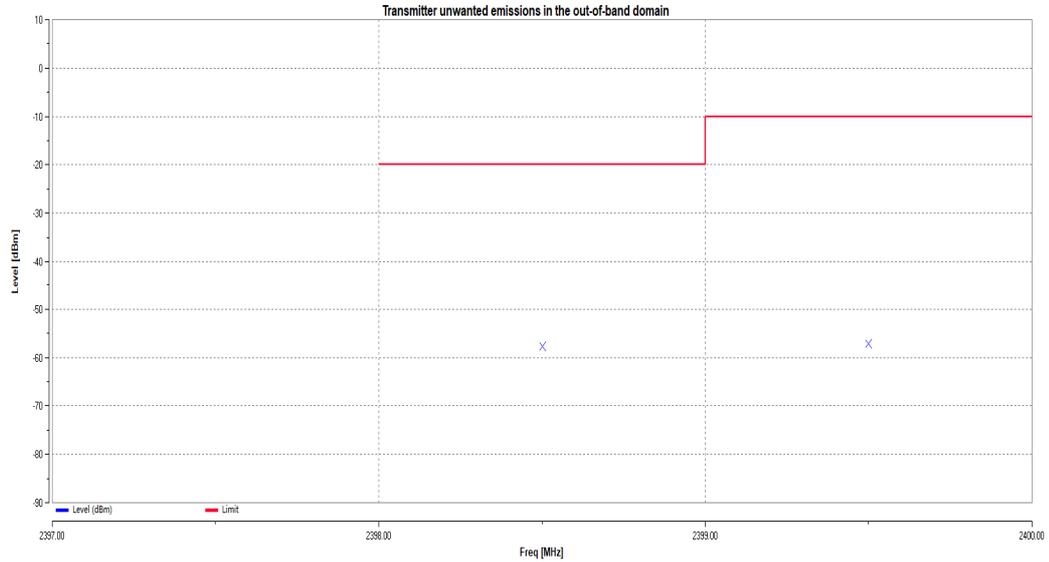


Appendix A.4: Test Results of Transmitter Unwanted Emissions in the Out-of-band Domain

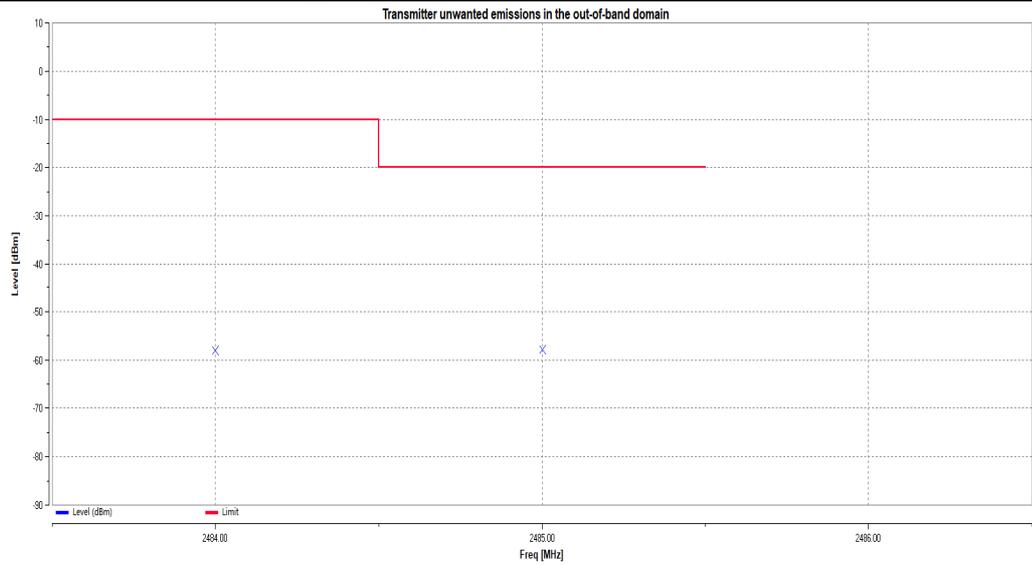
Normal Operation (Hopping)

TestMode	Antenna	Channel	Freq. [MHz]	Level [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Hop	2398.5	-57.73	-20.00	PASS
			2399.5	-57.19	-10.00	PASS
			2484	-57.98	-10.00	PASS
			2485	-57.82	-20.00	PASS
3DH5	Ant1	Hop	2398.031	-57.87	-20.00	PASS
			2398.2655	-57.79	-20.00	PASS
			2399.2655	-57.85	-10.00	PASS
			2399.5	-57.63	-10.00	PASS
			2484	-57.80	-10.00	PASS
			2484.2345	-57.83	-10.00	PASS
			2485.2345	-57.72	-20.00	PASS
			2485.469	-57.81	-20.00	PASS

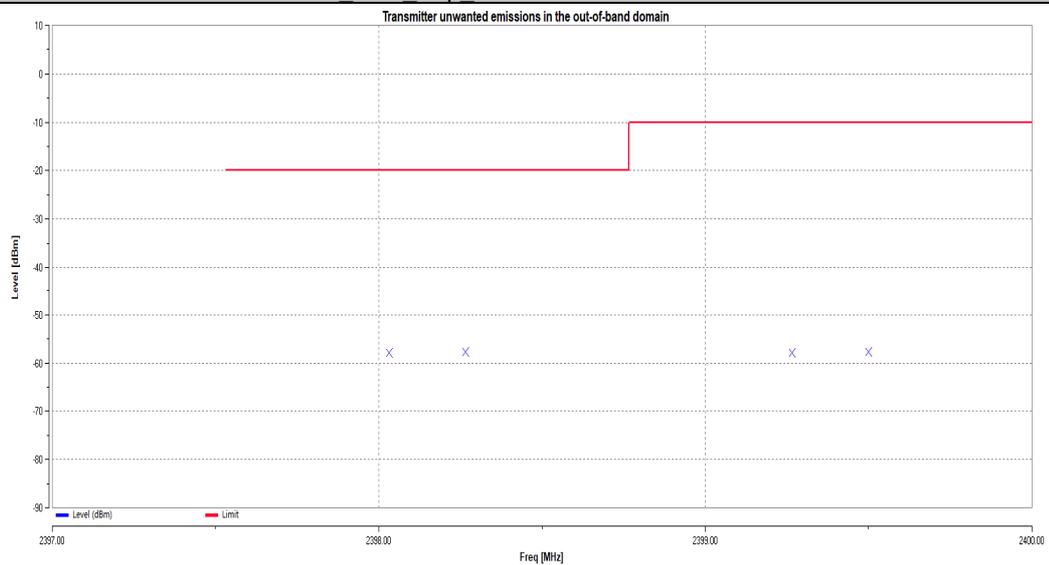
DH5_Ant1_Hop_2400MHz-2BW to 2400MHz



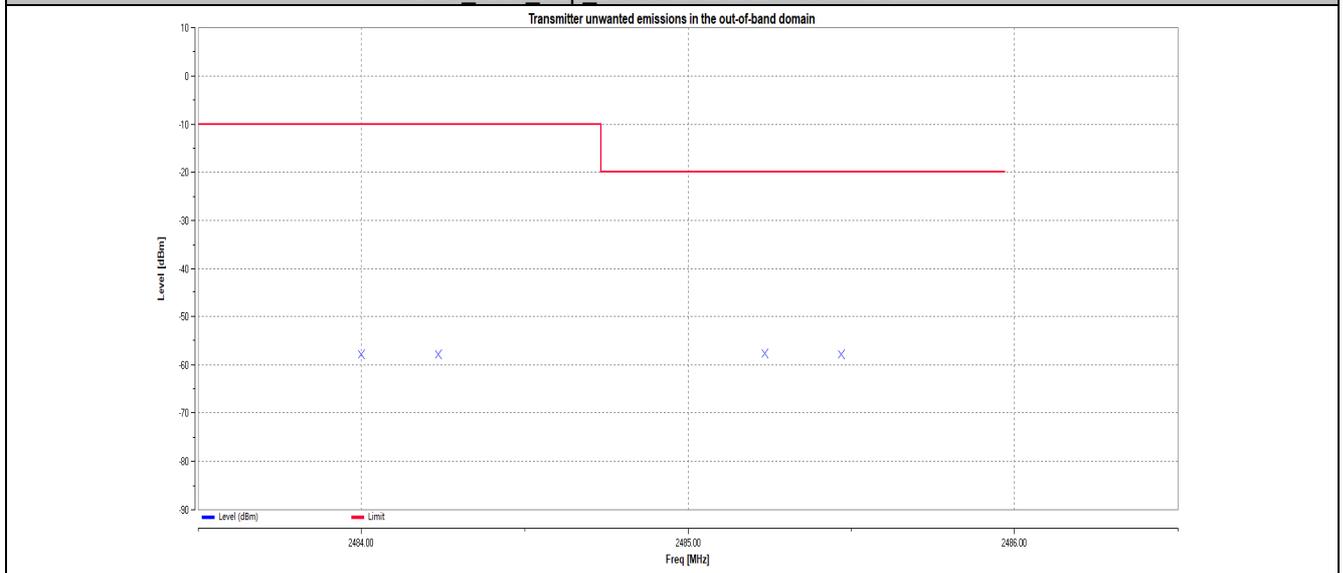
DH5_Ant1_Hop_2483.5MHz to 2483.5MHz+2BW



3DH5_Ant1_Hop_2400MHz-2BW to 2400MHz



3DH5 Ant1 Hop 2483.5MHz to 2483.5MHz+2BW



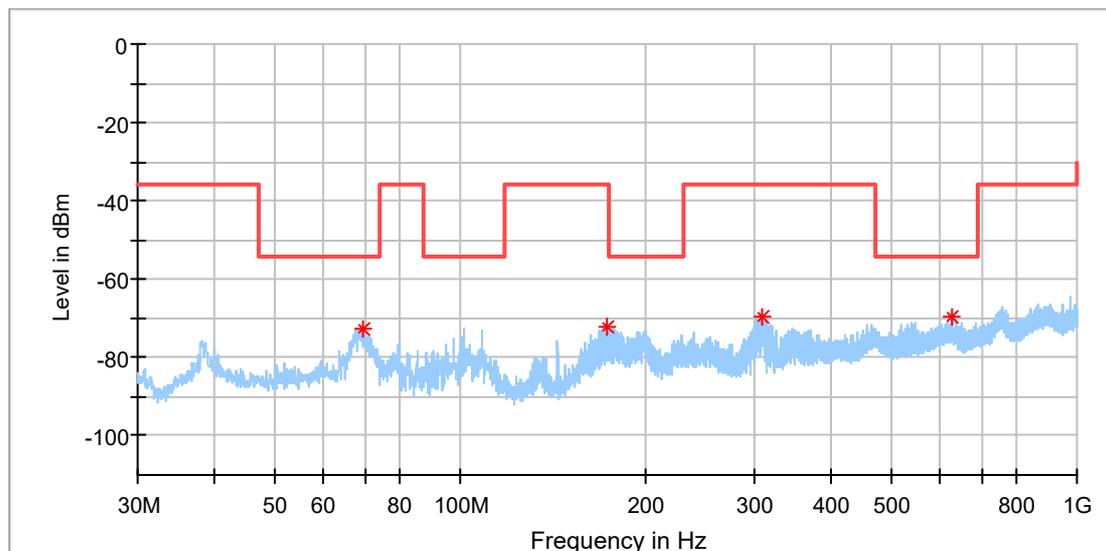
Appendix A.5: Test Results of Transmitter Unwanted Emissions in the Spurious Domain

Note: 1. Testing was carried out within frequency range 25 MHz to the tenth harmonics. The measurement results below 30MHz and above 12.75GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 12.75GHz were reported. 2. This testing was carried out on different modulations, but only the worst case was presented in this report.

FHSS, Below 1GHz

EUT Information

EUT Name:	CORDLESS ROBOTIC POOL CLEANER
Model:	PRX9
Sample No:	A003867017-001
Test Mode:	TX_DH5 L CH
Test Voltage:	Battery
Remark:	Temp:23.4;Humi:50%
Test standard:	EN 300328
Tested By:	Lich Chen
Reviewed by:	Terry Yin

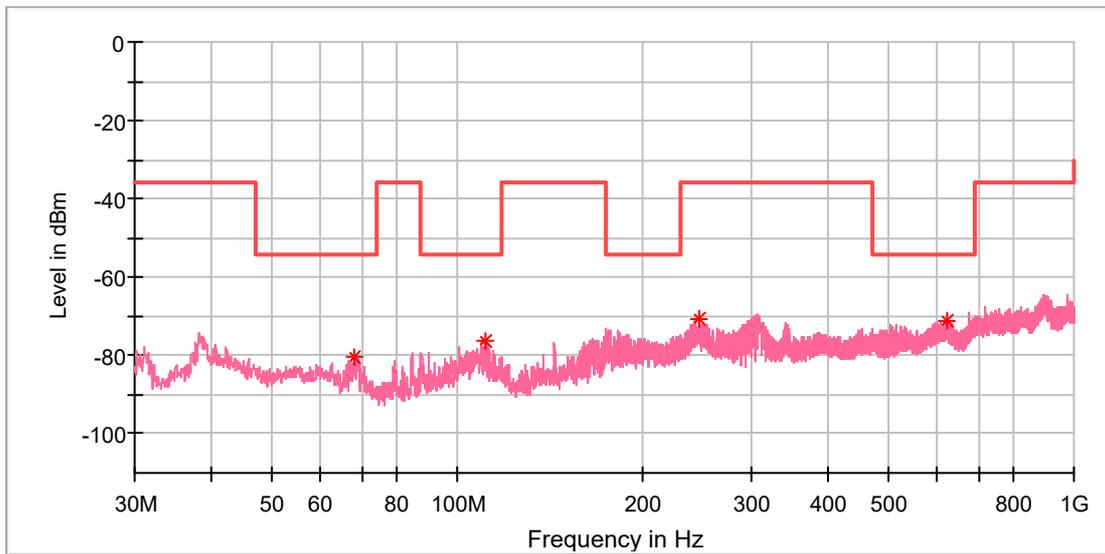


Critical Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
69.430500	-72.46	-54.00	18.46	150.0	H	115.0	-122.9
173.705500	-71.96	-36.00	35.96	150.0	H	0.0	-119.5
309.554000	-69.73	-36.00	33.73	150.0	H	58.0	-117.0
625.434500	-69.42	-54.00	15.42	150.0	H	312.0	-109.8

EUT Information

EUT Name: CORDLESS ROBOTIC POOL CLEANER
 Model: PRX9
 Sample No: A003867017-001
 Test Mode: TX_DH5 L CH
 Test Voltage: Battery
 Remark: Temp:23.4;Humi:50%
 Test standard: EN 300328
 Tested By: Lich Chen
 Reviewed by: Terry Yin

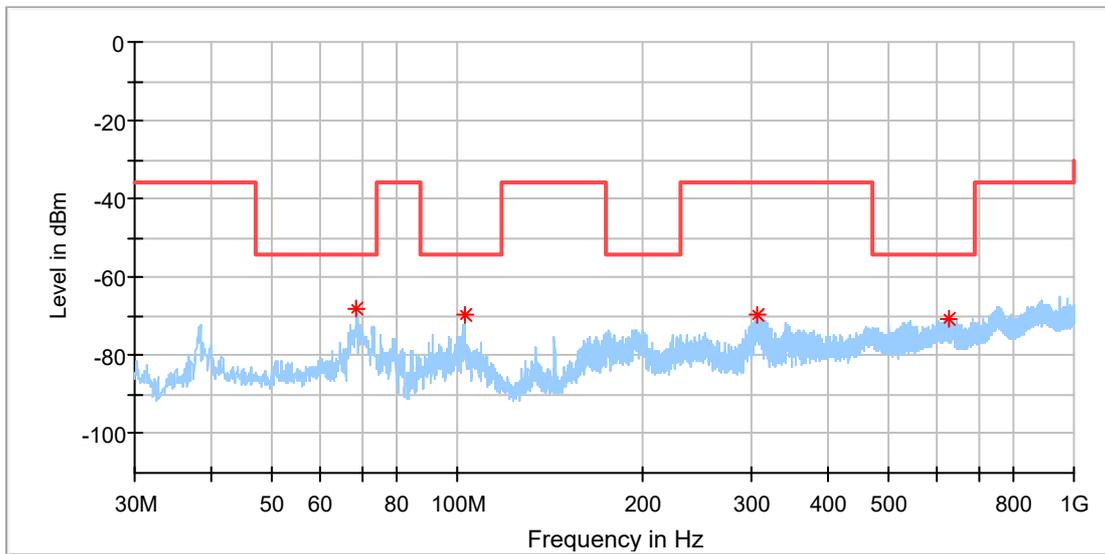


Critical Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
68.363500	-80.16	-54.00	26.16	150.0	V	0.0	-122.9
111.383000	-76.09	-54.00	22.09	150.0	V	209.0	-120.3
247.086000	-70.55	-36.00	34.55	150.0	V	74.0	-117.4
624.755500	-70.93	-54.00	16.93	150.0	V	156.0	-110.2

EUT Information

EUT Name: CORDLESS ROBOTIC POOL CLEANER
 Model: PRX9
 Sample No: A003867017-001
 Test Mode: TX_DH5 H CH
 Test Voltage: Battery
 Remark: Temp:23.4;Humi:50%
 Test standard: EN 300328
 Tested By: Lich Chen
 Reviewed by: Terry Yin

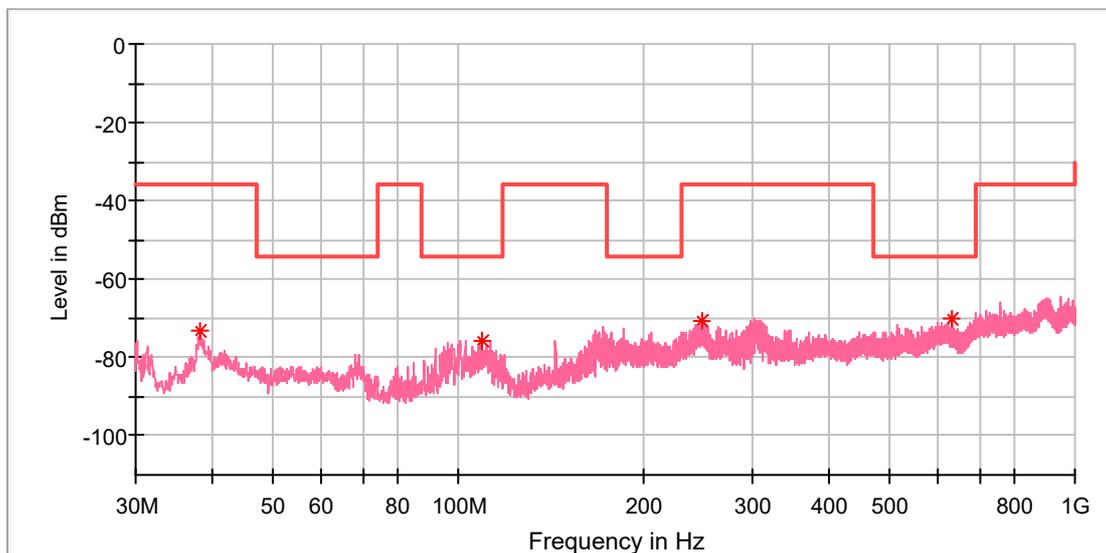


Critical Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
68.848500	-67.82	-54.00	13.82	150.0	H	132.0	-122.5
102.847000	-69.68	-54.00	15.68	150.0	H	67.0	-120.9
306.886500	-69.42	-36.00	33.42	150.0	H	58.0	-117.0
626.986500	-70.44	-54.00	16.44	150.0	H	304.0	-110.0

EUT Information

EUT Name: CORDLESS ROBOTIC POOL CLEANER
 Model: PRX9
 Sample No: A003867017-001
 Test Mode: TX_DH5 H CH
 Test Voltage: Battery
 Remark: Temp:23.4;Humi:50%
 Test standard: EN 300328
 Tested By: Lich Chen
 Reviewed by: Terry Yin



Critical Freqs

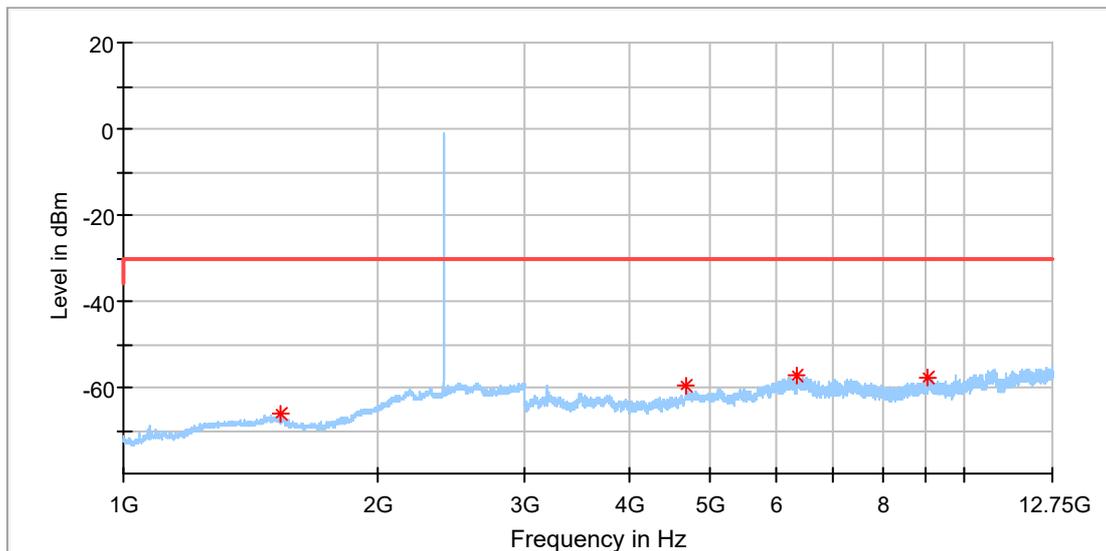
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
38.245000	-72.92	-36.00	36.92	150.0	V	175.0	-119.0
109.637000	-75.67	-54.00	21.67	150.0	V	30.0	-120.5
248.832000	-70.79	-36.00	34.79	150.0	V	0.0	-117.5
631.109000	-70.31	-54.00	16.31	150.0	V	24.0	-111.2

FHSS, Above 1GHz

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

EUT Information

EUT Name:	CORDLESS ROBOTIC POOL CLEANER
Model:	PRX9
Sample No:	A003867017-001
Test Mode:	TX_DH5 L CH
Test Voltage:	Battery
Remark:	Temp:23.4;Humi:50%
Test standard:	EN 300328
Tested By:	Lich Chen
Reviewed by	Terry Yin

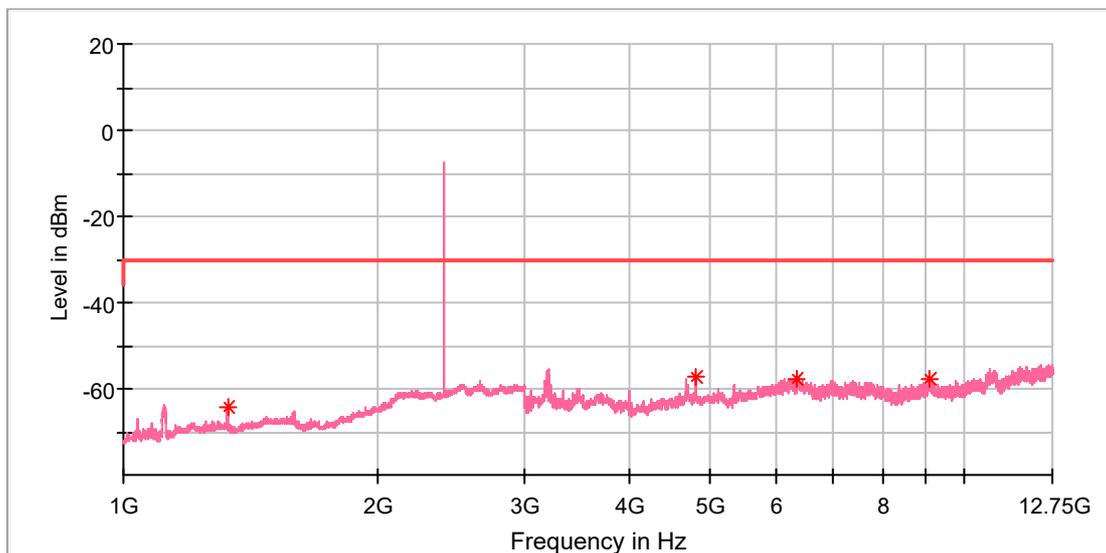


Critical Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1542.000000	-66.23	-30.00	36.23	150.0	H	238.0	-98.7
4662.000000	-59.62	-30.00	29.62	150.0	H	60.0	-92.9
6338.464286	-57.30	-30.00	27.30	150.0	H	206.0	-89.6
9073.178572	-57.68	-30.00	27.68	150.0	H	103.0	-87.5

EUT Information

EUT Name: CORDLESS ROBOTIC POOL CLEANER
 Model: PRX9
 Sample No: A003867017-001
 Test Mode: TX_DH5 L CH
 Test Voltage: Battery
 Remark: Temp:23.4;Humi:50%
 Test standard: EN 300328
 Tested By: Lich Chen
 Reviewed by: Terry Yin

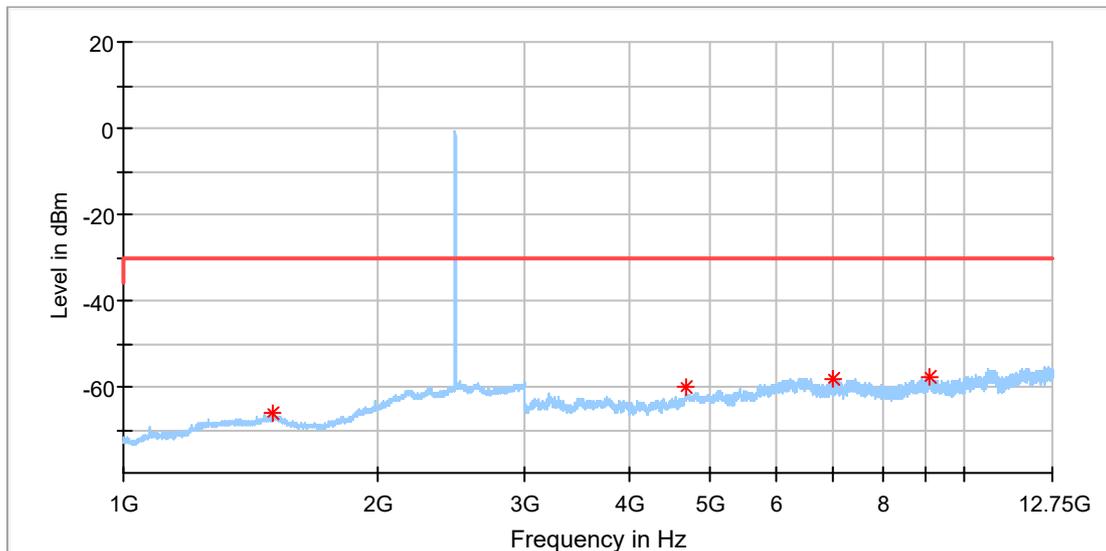


Critical Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1329.500000	-64.41	-30.00	34.41	150.0	V	185.0	-101.1
4790.500000	-57.24	-30.00	27.24	150.0	V	297.0	-93.1
6336.535714	-57.45	-30.00	27.45	150.0	V	170.0	-89.7
9127.178572	-57.86	-30.00	27.86	150.0	V	256.0	-87.4

EUT Information

EUT Name: CORDLESS ROBOTIC POOL CLEANER
 Model: PRX9
 Sample No: A003867017-001
 Test Mode: TX_DH5 H CH
 Test Voltage: Battery
 Remark: Temp:23.4;Humi:50%
 Test standard: EN 300328
 Tested By: Lich Chen
 Reviewed by: Terry Yin

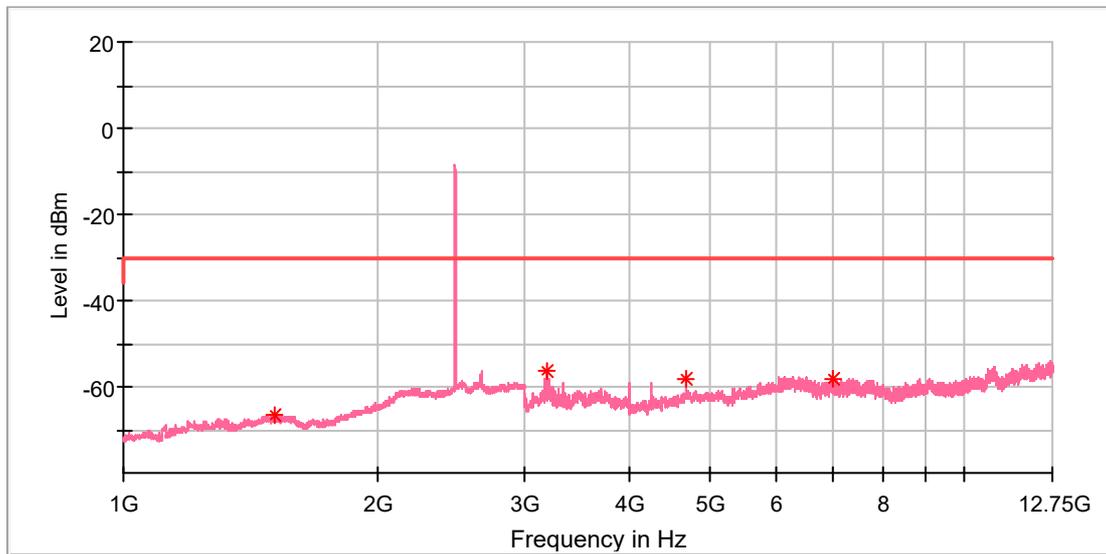


Critical Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1504.500000	-66.18	-30.00	36.18	150.0	H	292.0	-98.9
4662.000000	-60.21	-30.00	30.21	150.0	H	7.0	-92.9
6994.660714	-58.24	-30.00	28.24	150.0	H	130.0	-89.3
9093.910714	-57.48	-30.00	27.48	150.0	H	356.0	-87.3

EUT Information

EUT Name: CORDLESS ROBOTIC POOL CLEANER
 Model: PRX9
 Sample No: A003867017-001
 Test Mode: TX_DH5 H CH
 Test Voltage: Battery
 Remark: Temp:23.4;Humi:50%
 Test standard: EN 300328
 Tested By: Lich Chen
 Reviewed by: Terry Yin



Critical Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1515.500000	-66.30	-30.00	36.30	150.0	V	140.0	-98.9
3185.500000	-56.32	-30.00	26.32	150.0	V	156.0	-94.9
4662.000000	-58.12	-30.00	28.12	150.0	V	232.0	-92.7
7000.446429	-58.03	-30.00	28.03	150.0	V	351.0	-89.0

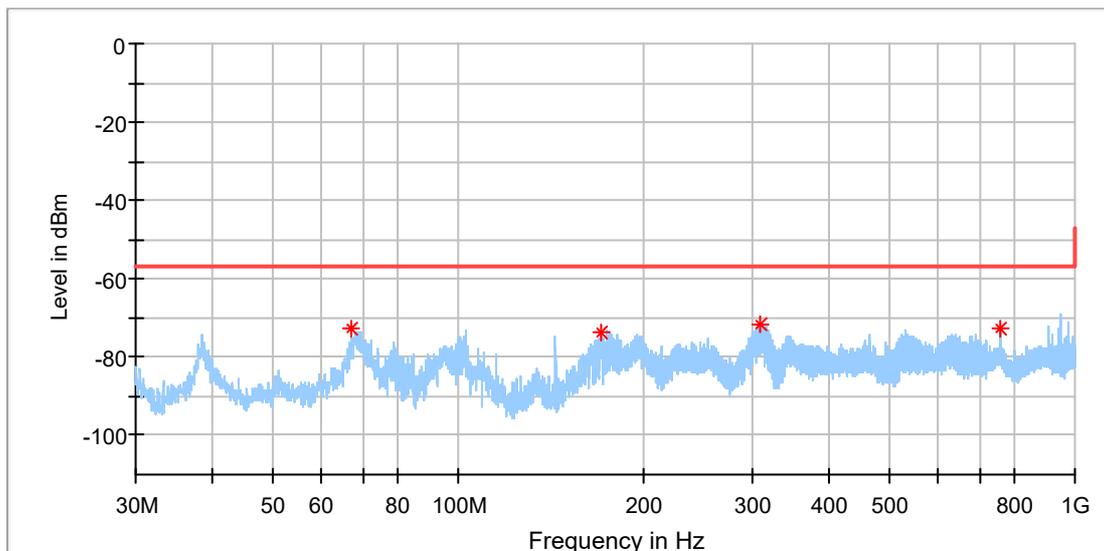
Appendix A.6: Test Results of Receiver Spurious Emissions

Note: 1. Testing was carried out within frequency range 25 MHz to the tenth harmonics. The measurement results below 30MHz and above 12.75GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 12.75GHz were reported. 2. This testing was carried out on different modulations, but only the worst case was presented in this report.

FHSS, Below 1GHz

EUT Information

EUT Name:	CORDLESS ROBOTIC POOL CLEANER
Model:	PRX9
Sample No:	A003867017-001
Test Mode:	RX_DH5 L CH
Test Voltage:	Battery
Remark:	Temp:23.4;Humi:50%
Test standard:	EN 300328
Tested By:	Lich Chen
Reviewed by	Terry Yin

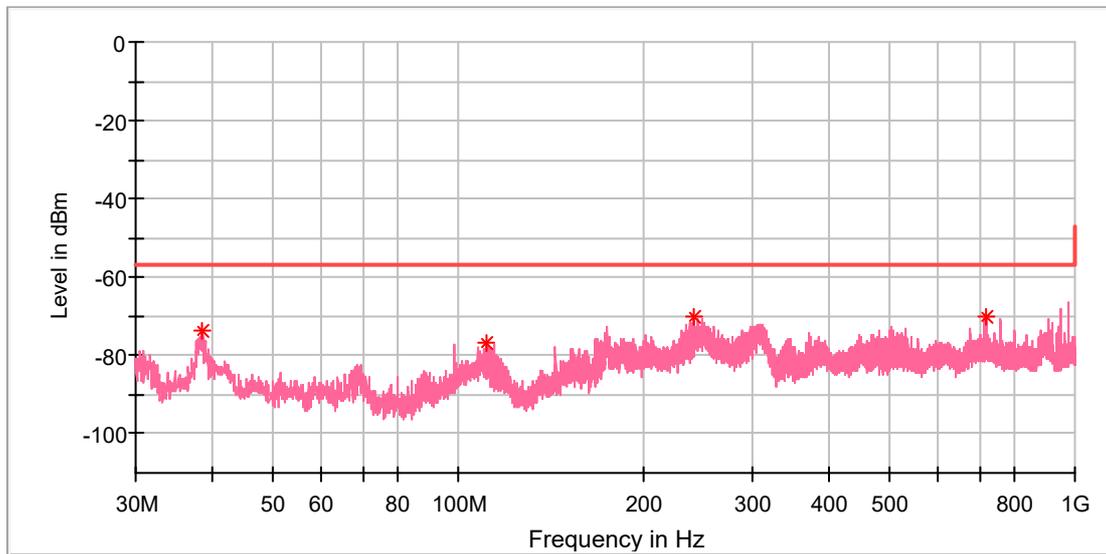


Critical Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
67.054000	-72.77	-57.00	15.77	150.0	H	0.0	-121.6
170.407500	-73.89	-57.00	16.89	150.0	H	5.0	-120.1
308.050500	-71.62	-57.00	14.62	150.0	H	53.0	-117.0
755.899500	-72.52	-57.00	15.52	150.0	H	1.0	-105.7

EUT Information

EUT Name: CORDLESS ROBOTIC POOL CLEANER
 Model: PRX9
 Sample No: A003867017-001
 Test Mode: RX_DH5 L CH
 Test Voltage: Battery
 Remark: Temp:23.4;Humi:50%
 Test standard: EN 300328
 Tested By: Lich Chen
 Reviewed by: Terry Yin

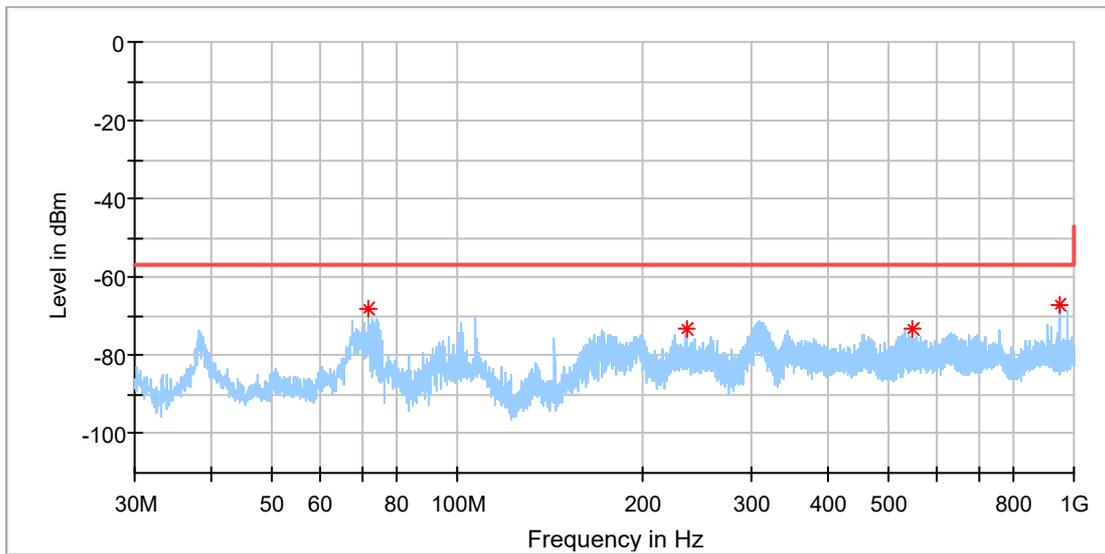


Critical Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
38.584500	-73.52	-57.00	16.52	150.0	V	289.0	-118.6
111.140500	-76.88	-57.00	19.89	150.0	V	301.0	-120.3
241.460000	-70.21	-57.00	13.21	150.0	V	347.0	-117.5
716.226500	-70.28	-57.00	13.28	150.0	V	255.0	-107.9

EUT Information

EUT Name: CORDLESS ROBOTIC POOL CLEANER
 Model: PRX9
 Sample No: A003867017-001
 Test Mode: RX_DH5 H CH
 Test Voltage: Battery
 Remark: Temp:23.4;Humi:50%
 Test standard: EN 300328
 Tested By: Lich Chen
 Reviewed by: Terry Yin

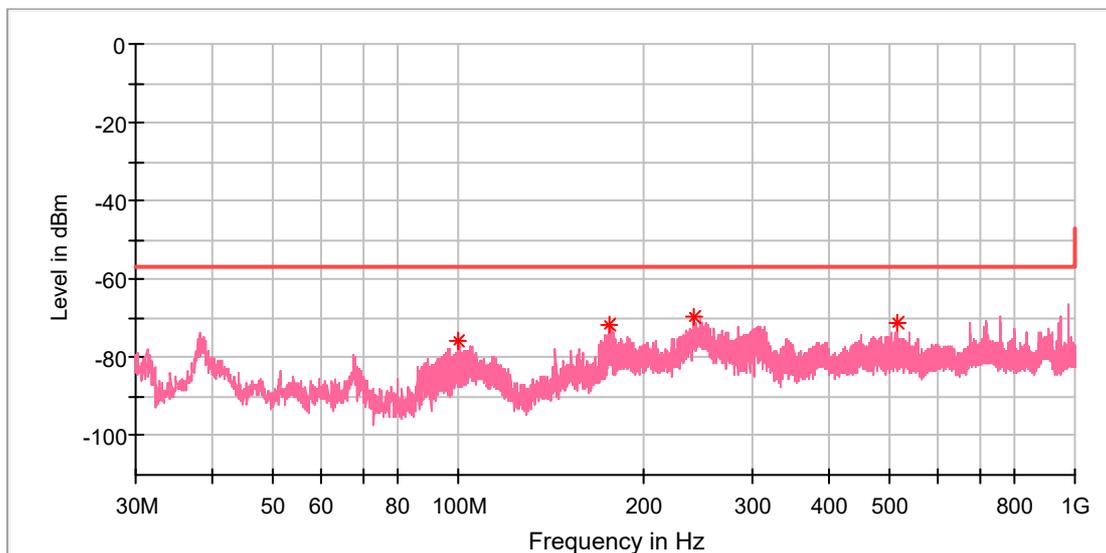


Critical Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
71.613000	-68.01	-57.00	11.01	150.0	H	101.0	-124.6
234.961000	-73.31	-57.00	16.31	150.0	H	60.0	-117.5
547.834500	-73.17	-57.00	16.17	150.0	H	331.0	-112.8
948.396000	-66.92	-57.00	9.92	150.0	H	214.0	-106.8

EUT Information

EUT Name: CORDLESS ROBOTIC POOL CLEANER
 Model: PRX9
 Sample No: A003867017-001
 Test Mode: RX_DH5 H CH
 Test Voltage: Battery
 Remark: Temp:23.4;Humi:50%
 Test standard: EN 300328
 Tested By: Lich Chen
 Reviewed by: Terry Yin



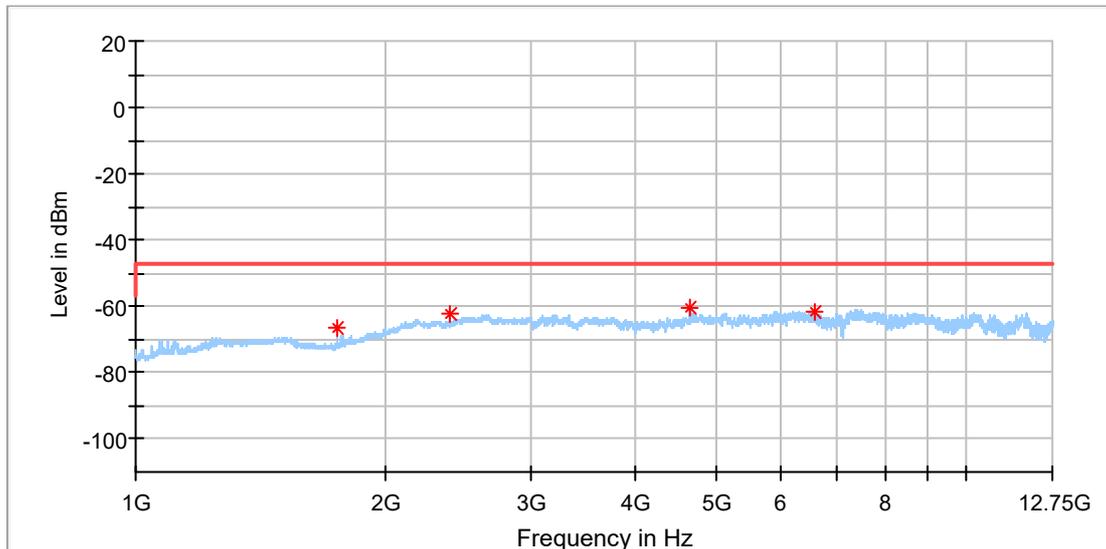
Critical Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
99.985500	-75.81	-57.00	18.81	150.0	V	308.0	-120.8
176.276000	-71.60	-57.00	14.60	150.0	V	162.0	-120.7
241.217500	-69.52	-57.00	12.52	150.0	V	345.0	-117.5
514.369500	-71.27	-57.00	14.27	150.0	V	191.0	-113.2

FHSS, Above 1GHz

EUT Information

EUT Name:	CORDLESS ROBOTIC POOL CLEANER
Model:	PRX9
Sample No:	A003867017-001
Test Mode:	RX_DH5 L CH
Test Voltage:	Battery
Remark:	Temp:23.4;Humi:50%
Test standard:	EN 300328
Tested By:	Lich Chen
Reviewed by	Terry Yin

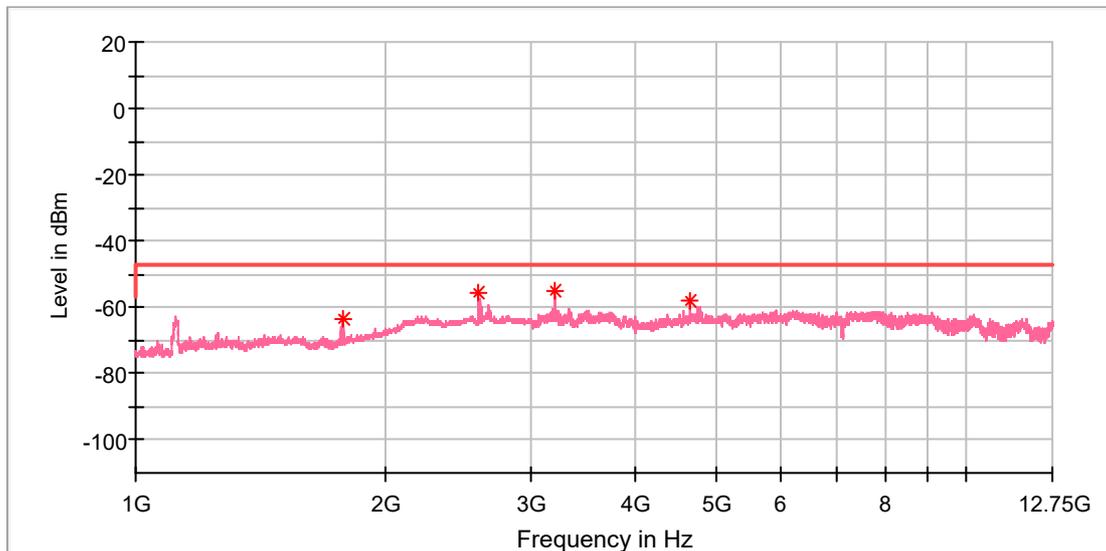


Critical Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1750.000000	-66.44	-47.00	19.44	150.0	H	118.0	-99.4
2397.000000	-62.53	-47.00	15.53	150.0	H	320.0	-93.9
4661.833333	-60.57	-47.00	13.57	150.0	H	188.0	-92.9
6579.875000	-61.52	-47.00	14.52	150.0	H	339.0	-89.0

EUT Information

EUT Name: CORDLESS ROBOTIC POOL CLEANER
 Model: PRX9
 Sample No: A003867017-001
 Test Mode: RX_DH5 L CH
 Test Voltage: Battery
 Remark: Temp:23.4;Humi:50%
 Test standard: EN 300328
 Tested By: Lich Chen
 Reviewed by: Terry Yin

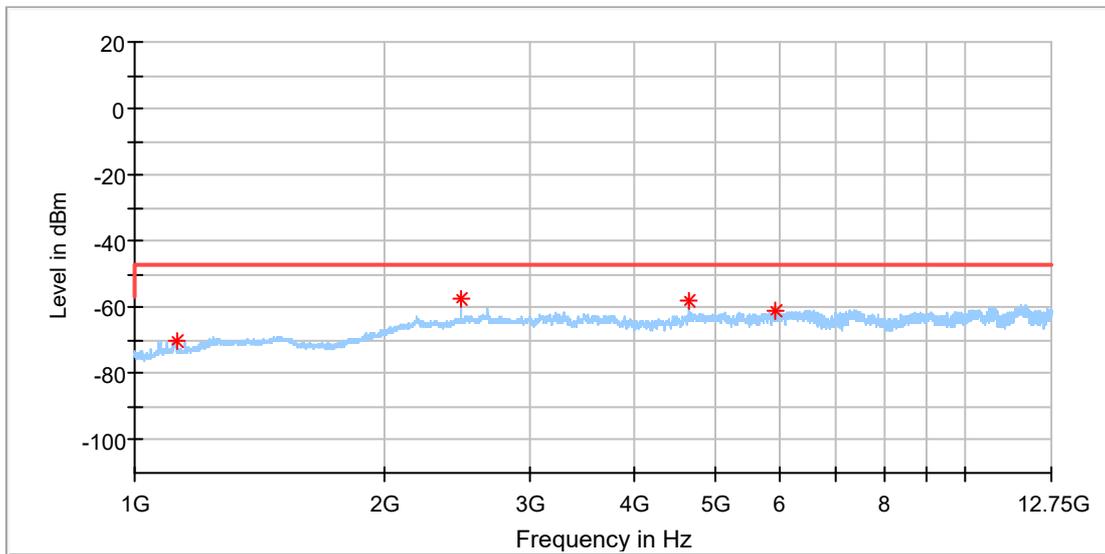


Critical Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1784.000000	-63.71	-47.00	16.71	150.0	V	156.0	-97.6
2591.500000	-55.52	-47.00	8.52	150.0	V	15.0	-92.9
3198.250000	-55.04	-47.00	8.04	150.0	V	186.0	-94.6
4661.833333	-58.28	-47.00	11.28	150.0	V	243.0	-92.7

EUT Information

EUT Name: CORDLESS ROBOTIC POOL CLEANER
 Model: PRX9
 Sample No: A003867017-001
 Test Mode: RX_DH5 H CH
 Test Voltage: Battery
 Remark: Temp:23.4;Humi:50%
 Test standard: EN 300328
 Tested By: Lich Chen
 Reviewed by: Terry Yin

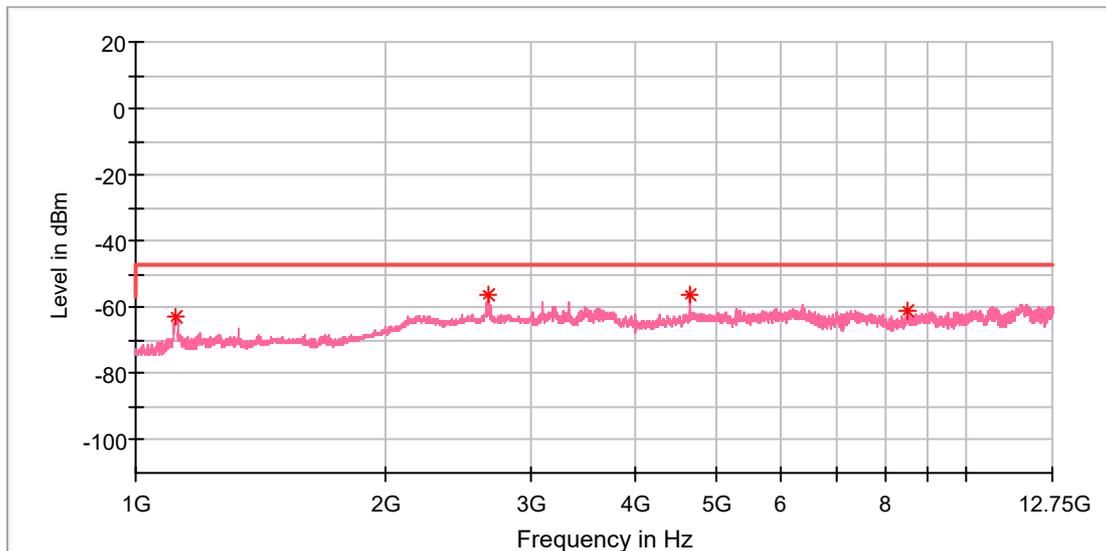


Critical Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1122.000000	-69.99	-47.00	22.99	150.0	H	243.0	-103.2
2475.000000	-57.52	-47.00	10.52	150.0	H	303.0	-92.6
4661.833333	-58.26	-47.00	11.26	150.0	H	1.0	-92.9
5920.666667	-60.73	-47.00	13.73	150.0	H	338.0	-89.8

EUT Information

EUT Name:	CORDLESS ROBOTIC POOL CLEANER
Model:	PRX9
Sample No:	A003867017-001
Test Mode:	RX_DH5 H CH
Test Voltage:	Battery
Remark:	Temp:23.4;Humi:50%
Test standard:	EN 300328
Tested By:	Lich Chen
Reviewed by	Terry Yin



Critical Freqs

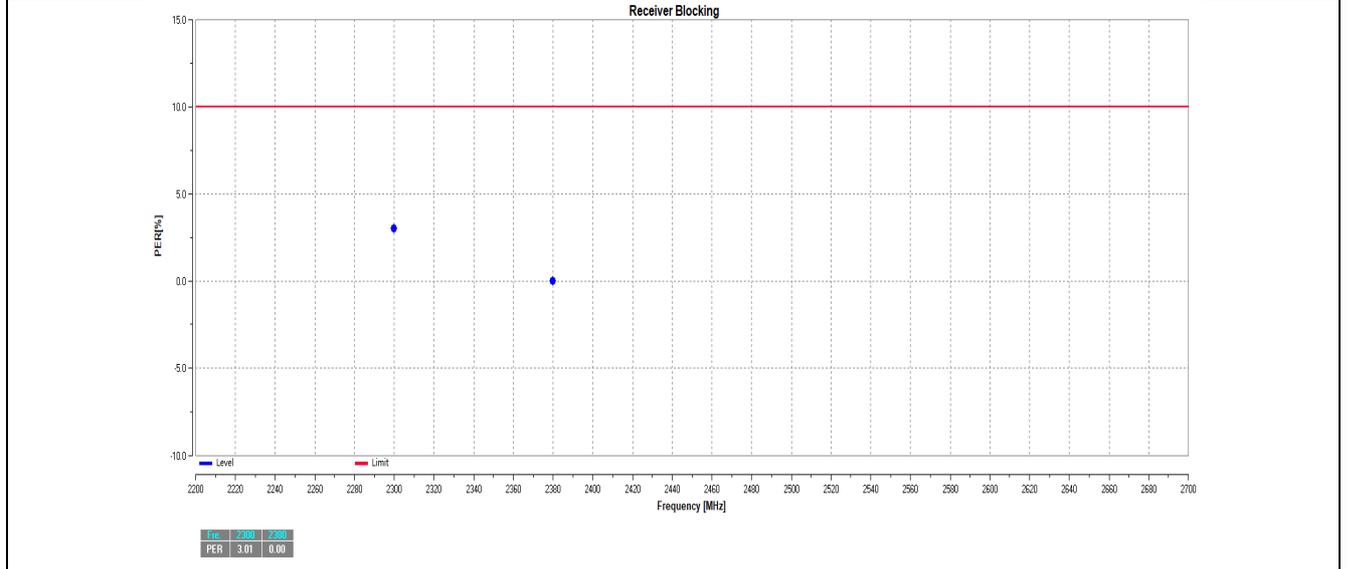
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1121.000000	-63.05	-47.00	16.05	150.0	V	205.0	-103.5
2659.500000	-56.17	-47.00	9.17	150.0	V	118.0	-91.8
4661.833333	-56.39	-47.00	9.39	150.0	V	231.0	-92.7
8513.625000	-60.73	-47.00	13.73	150.0	V	315.0	-89.2

Appendix A.7: Test Results of Receiver Blocking of FHSS

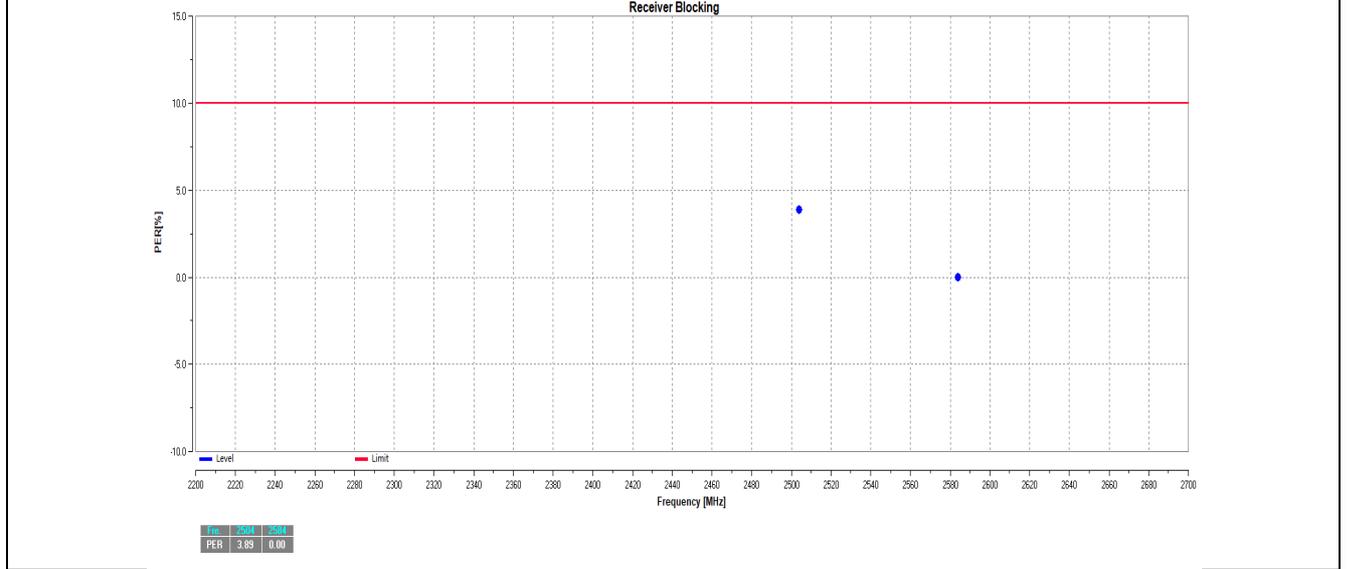
BR Mode (Worst-case)

TestMode	Antenna	Channel	Pmin [dBm]	Wanted signal [dBm]	Freq. [MHz]	CW [dBm]	PER [%]	Limit [%]	Verdict
DH5	Ant1	2402	---	-66.39	2300	-30.98	3.01	≤10	PASS
			---	-66.39	2380	-30.98	0.00	≤10	PASS
		2480	---	-66.39	2504	-30.98	3.89	≤10	PASS
			---	-66.39	2584	-30.98	0.00	≤10	PASS

DH5_Ant1_2402



DH5_Ant1_2480



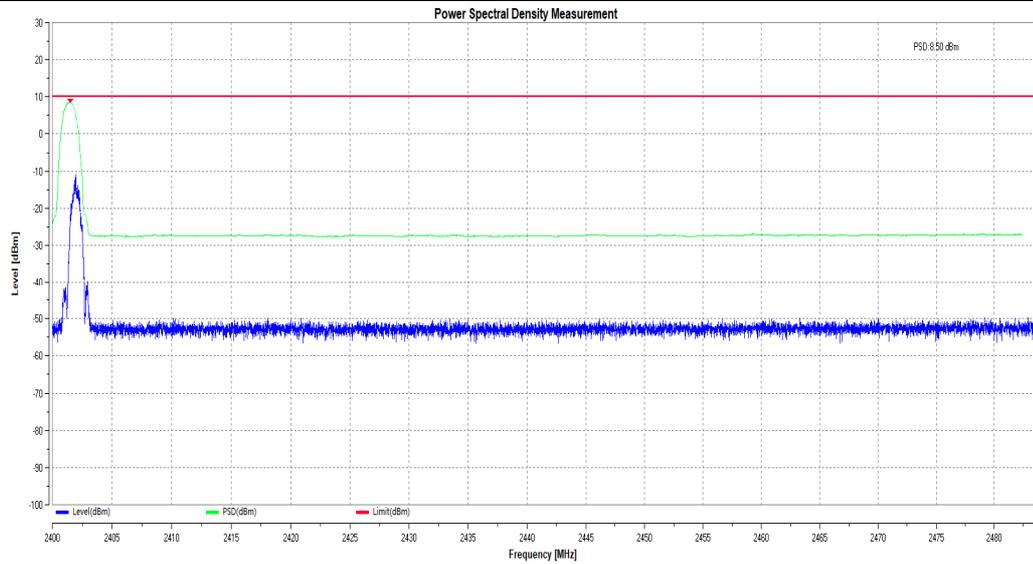
Appendix B: Test Results of Bluetooth LE

APPENDIX B: TEST RESULTS OF BLUETOOTH LE	1
APPENDIX B.1: TEST RESULTS OF POWER SPECTRAL DENSITY	2
APPENDIX B.2: TEST RESULTS OF OCCUPIED CHANNEL BANDWIDTH	4
APPENDIX B.3: TEST RESULTS OF TRANSMITTER UNWANTED EMISSIONS IN THE OUT-OF-BAND DOMAIN	6
APPENDIX B.4: TEST RESULTS OF TRANSMITTER UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN	8
<i>Below 1GHz</i>	8
<i>Above 1GHz</i>	12
APPENDIX B.5: TEST RESULTS OF RECEIVER SPURIOUS EMISSIONS	16
<i>Below 1GHz</i>	16
<i>Above 1GHz</i>	20
APPENDIX B.6: TEST RESULTS OF RECEIVER BLOCKING	24

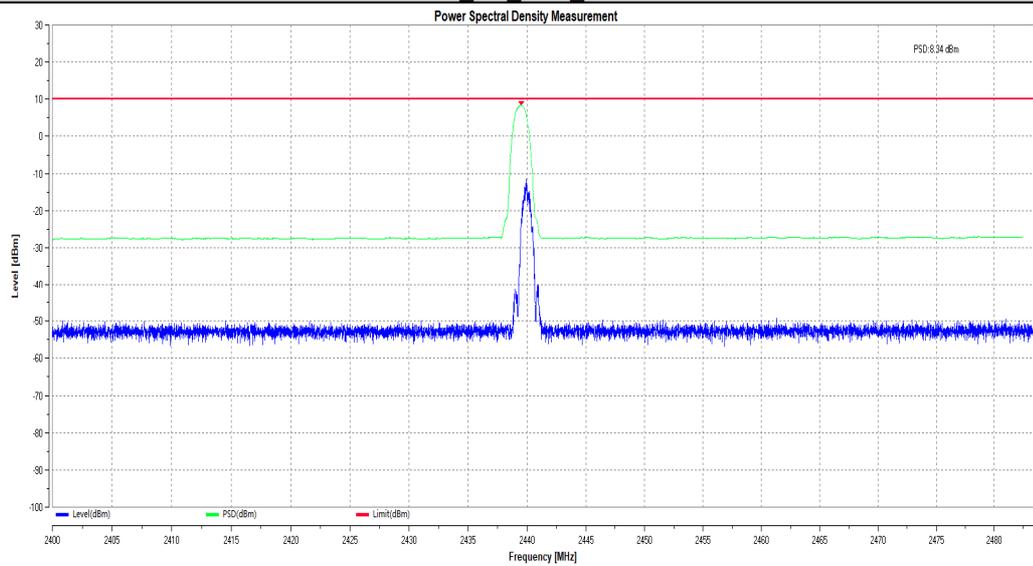
Appendix B.1: Test Results of Power Spectral Density

TestMode	Antenna	Channel	PSD [dBm/MHz]	Limit [dBm/MHz]	Verdict
BLE_1M	Ant1	2402	8.50	10	PASS
		2440	8.34	10	PASS
		2480	7.85	10	PASS

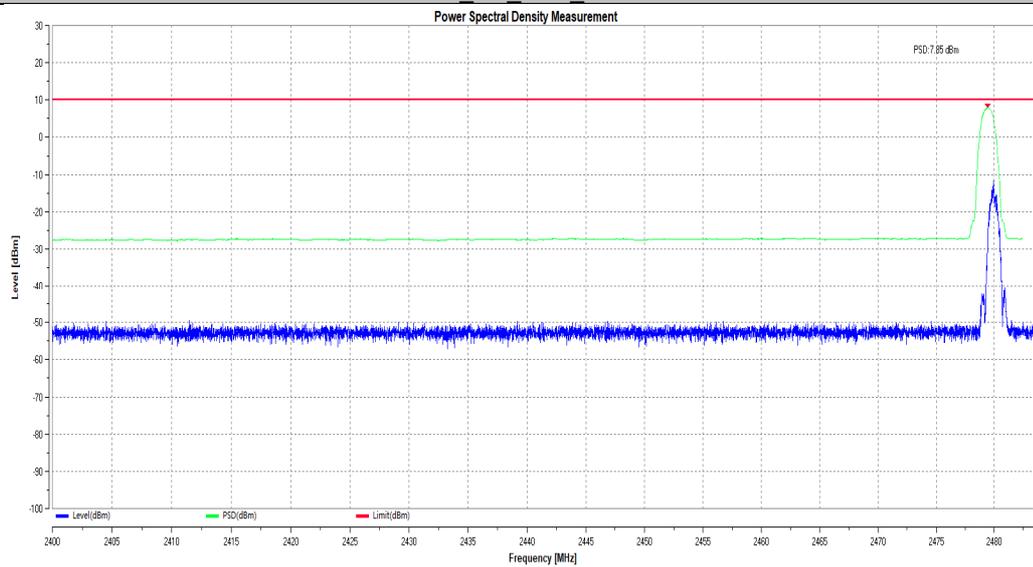
BLE 1M Ant1 2402



BLE 1M Ant1 2440

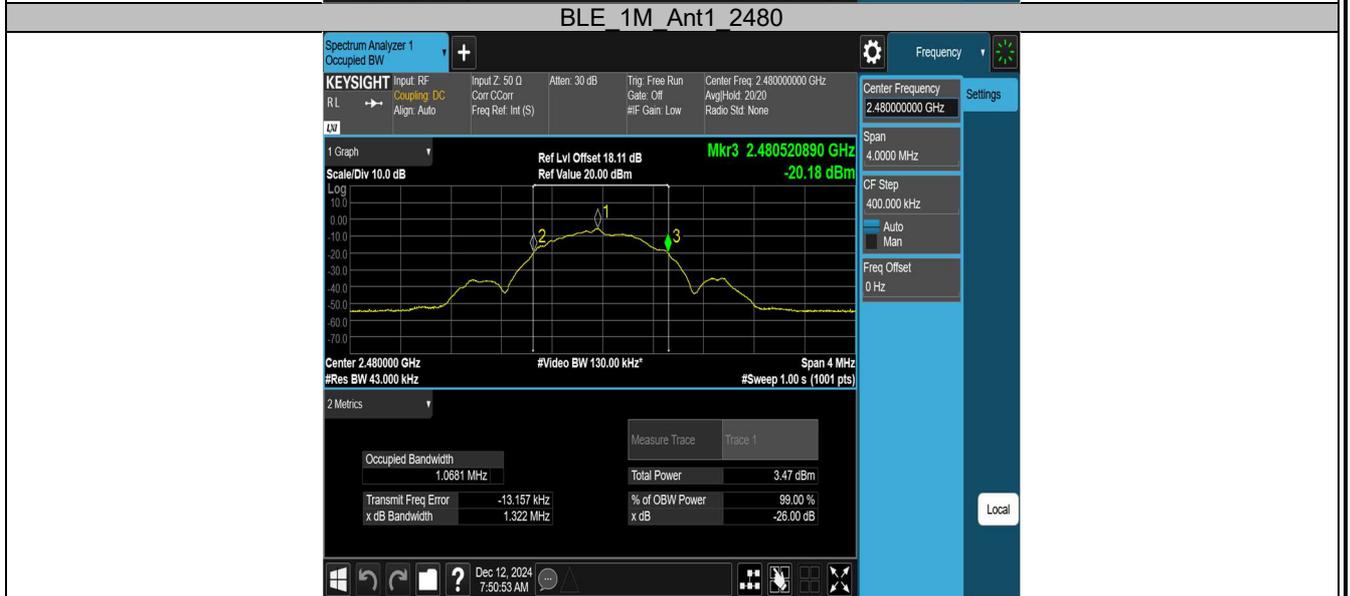


BLE 1M Ant1 2480



Appendix B.2: Test Results of Occupied Channel Bandwidth

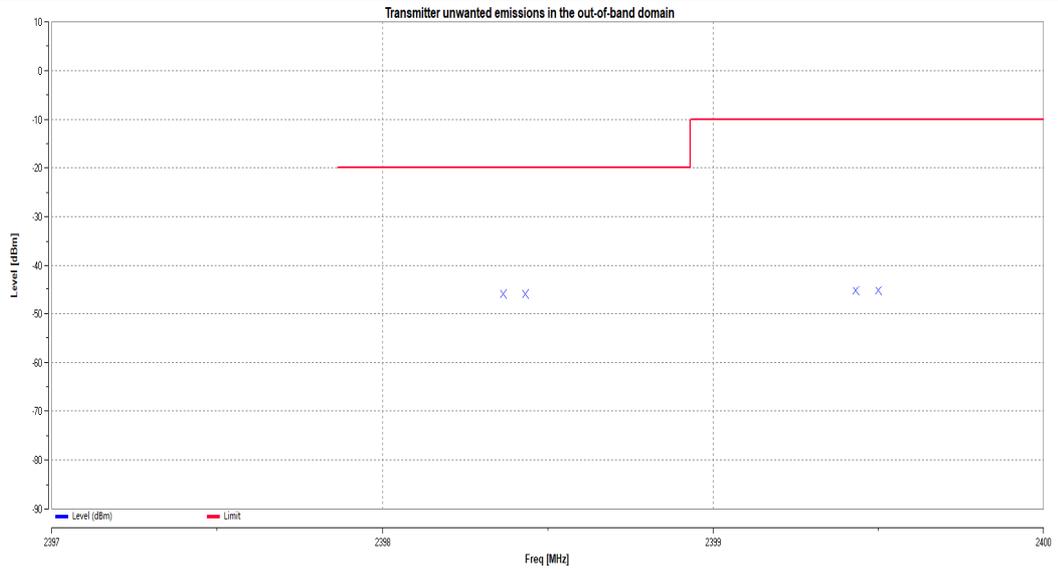
TestMode	Antenna	Channel	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	1.0678	2401.4588	2402.5266	2400 to 2483.5	PASS
		2440	1.0680	2439.4556	2440.5236	2400 to 2483.5	PASS
		2480	1.0681	2479.4528	2480.5209	2400 to 2483.5	PASS



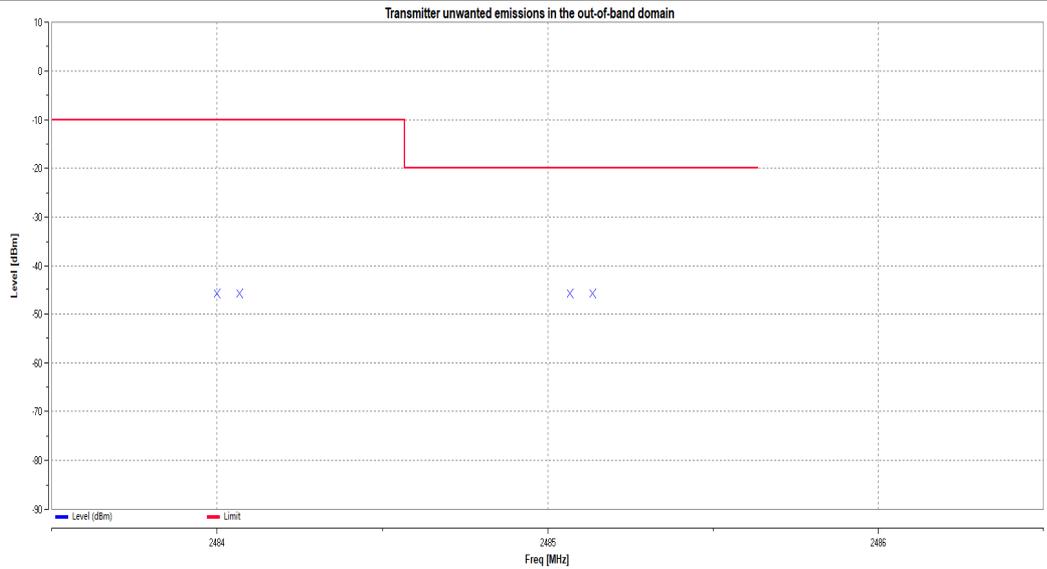
Appendix B.3: Test Results of Transmitter Unwanted Emissions in the Out-of-band Domain

TestMode	Antenna	Channel	Freq. [MHz]	Level [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	2398.3644	-45.99	-20.00	PASS
			2398.4322	-45.96	-20.00	PASS
			2399.4322	-45.37	-10.00	PASS
			2399.5	-45.23	-10.00	PASS
		2480	2484	-45.81	-10.00	PASS
			2484.0681	-45.84	-10.00	PASS
			2485.0681	-45.89	-20.00	PASS
			2485.1362	-45.91	-20.00	PASS

BLE 1M Ant1 2402 2400MHz-2BW to 2400MHz



BLE 1M Ant1 2480 2483.5MHz to 2483.5MHz+2BW



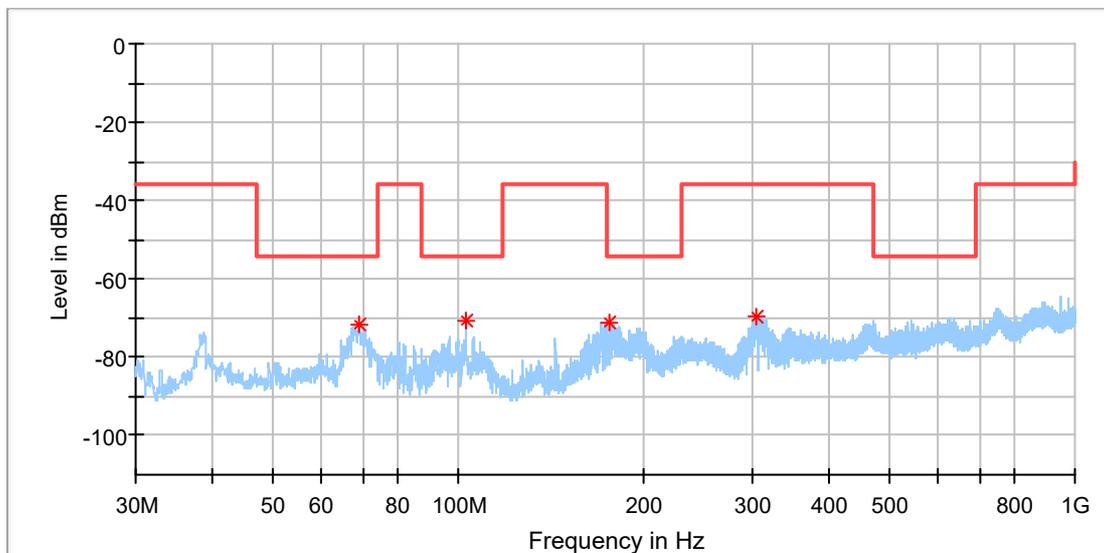
Appendix B.4: Test Results of Transmitter Unwanted Emissions in the Spurious Domain

Note: Testing was carried out within frequency range 25 MHz to the tenth harmonics. The measurement results below 30MHz and above 12.75GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 12.75GHz were reported.

Below 1GHz

EUT Information

EUT Name:	CORDLESS ROBOTIC POOL CLEANER
Model:	PRX9
Sample No:	A003867017-001
Test Mode:	TX_BLE L CH
Test Voltage:	Battery
Remark:	Temp:23.4;Humi:50%
Test standard:	EN 300328
Tested By:	Lich Chen
Reviewed by	Terry Yin

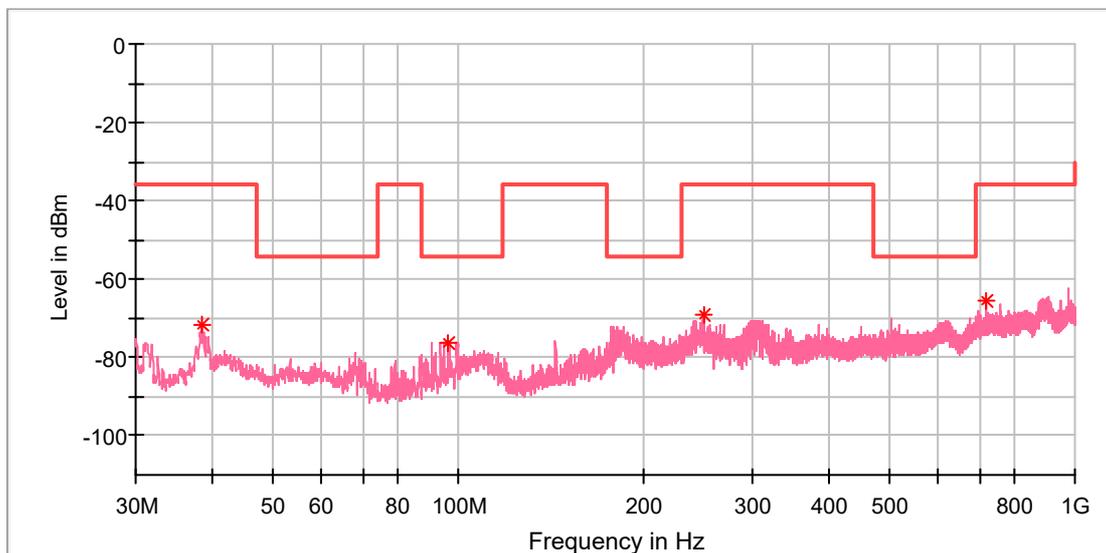


Critical_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
69.285000	-71.44	-54.00	17.44	150.0	H	314.0	-122.8
103.138000	-70.46	-54.00	16.46	150.0	H	48.0	-121.0
176.276000	-70.97	-54.00	16.97	150.0	H	5.0	-119.1
303.879500	-69.37	-36.00	33.37	150.0	H	55.0	-117.1

EUT Information

EUT Name: CORDLESS ROBOTIC POOL CLEANER
 Model: PRX9
 Sample No: A003867017-001
 Test Mode: TX_BLE L CH
 Test Voltage: Battery
 Remark: Temp:23.4;Humi:50%
 Test standard: EN 300328
 Tested By: Lich Chen
 Reviewed by: Terry Yin

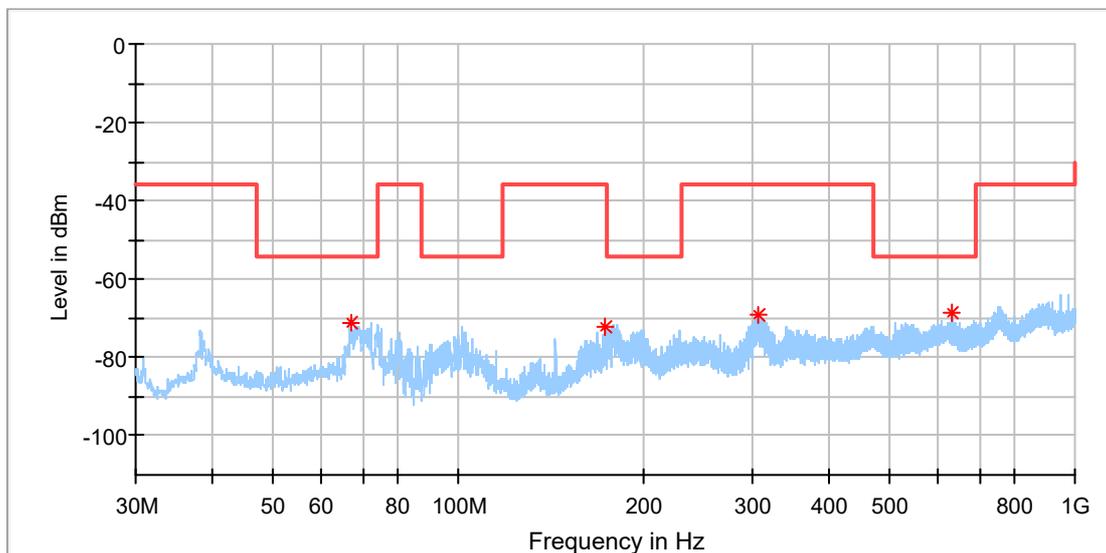


Critical Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
38.390500	-71.46	-36.00	35.46	150.0	V	236.0	-118.8
96.493500	-76.15	-54.00	22.15	150.0	V	158.0	-121.1
249.511000	-69.25	-36.00	33.25	150.0	V	96.0	-117.5
716.760000	-65.73	-36.00	29.73	150.0	V	0.0	-107.9

EUT Information

EUT Name:	CORDLESS ROBOTIC POOL CLEANER
Model:	PRX9
Sample No:	A003867017-001
Test Mode:	TX_BLE H CH
Test Voltage:	Battery
Remark:	Temp:23.4;Humi:50%
Test standard:	EN 300328
Tested By:	Lich Chen
Reviewed by	Terry Yin

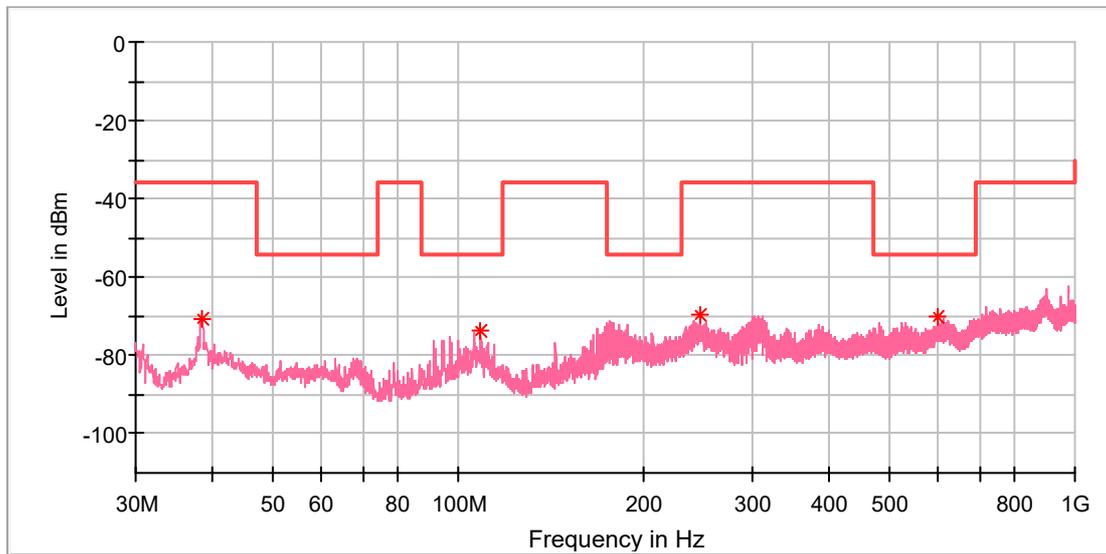


Critical Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
66.860000	-71.30	-54.00	17.30	150.0	H	290.0	-121.5
172.929500	-72.00	-36.00	36.00	150.0	H	358.0	-119.7
307.032000	-68.98	-36.00	32.98	150.0	H	54.0	-117.0
633.534000	-68.72	-54.00	14.72	150.0	H	314.0	-110.4

EUT Information

EUT Name: CORDLESS ROBOTIC POOL CLEANER
 Model: PRX9
 Sample No: A003867017-001
 Test Mode: TX_BLE H CH
 Test Voltage: Battery
 Remark: Temp:23.4;Humi:50%
 Test standard: EN 300328
 Tested By: Lich Chen
 Reviewed by: Terry Yin



Critical Freqs

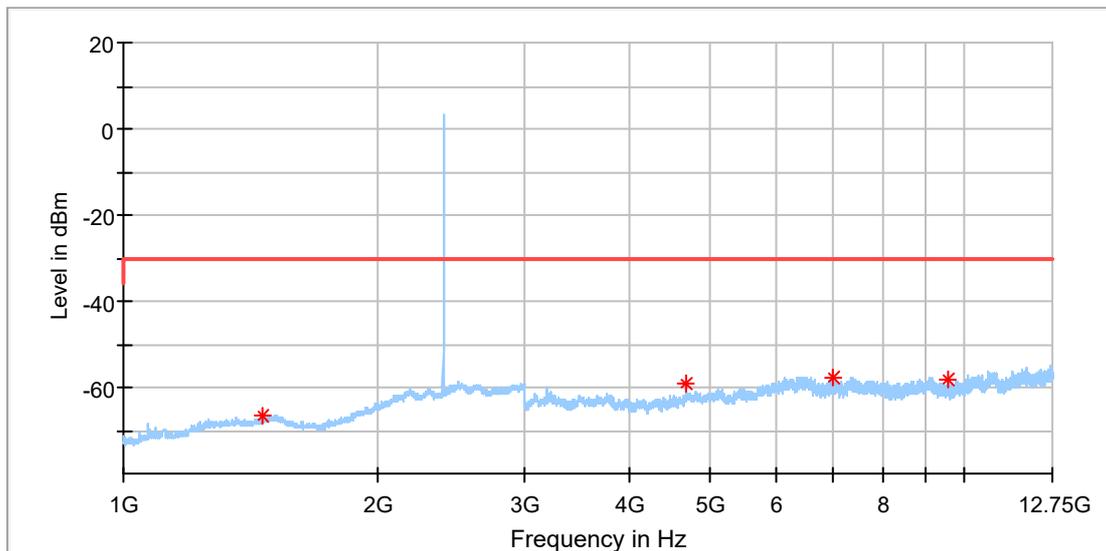
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
38.342000	-70.66	-36.00	34.66	150.0	V	217.0	-118.9
108.958000	-73.92	-54.00	19.92	150.0	V	310.0	-120.7
246.795000	-69.81	-36.00	33.81	150.0	V	328.0	-117.4
599.341500	-70.27	-54.00	16.27	150.0	V	179.0	-109.8

Above 1GHz

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

EUT Information

EUT Name:	CORDLESS ROBOTIC POOL CLEANER
Model:	PRX9
Sample No:	A003867017-001
Test Mode:	TX_BLE L CH
Test Voltage:	Battery
Remark:	Temp:23.4;Humi:50%
Test standard:	EN 300328
Tested By:	Lich Chen
Reviewed by	Terry Yin

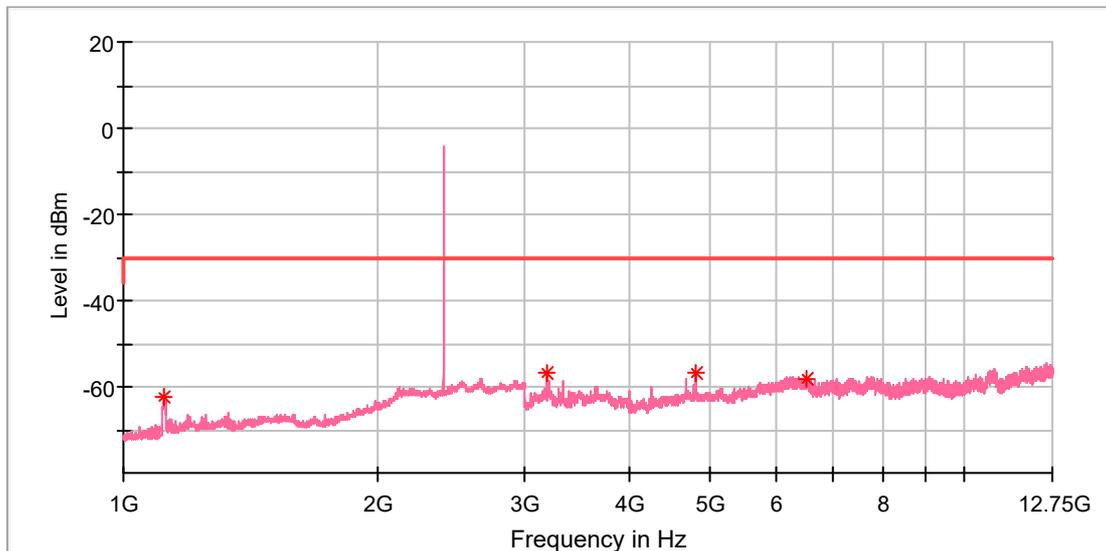


Critical Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1460.000000	-66.61	-30.00	36.61	150.0	H	8.0	-99.6
4662.000000	-59.26	-30.00	29.26	150.0	H	206.0	-92.9
6999.482143	-57.80	-30.00	27.80	150.0	H	270.0	-89.2
9543.750000	-58.01	-30.00	28.01	150.0	H	169.0	-88.0

EUT Information

EUT Name: CORDLESS ROBOTIC POOL CLEANER
 Model: PRX9
 Sample No: A003867017-001
 Test Mode: TX_BLE L CH
 Test Voltage: Battery
 Remark: Temp:23.4;Humi:50%
 Test standard: EN 300328
 Tested By: Lich Chen
 Reviewed by: Terry Yin

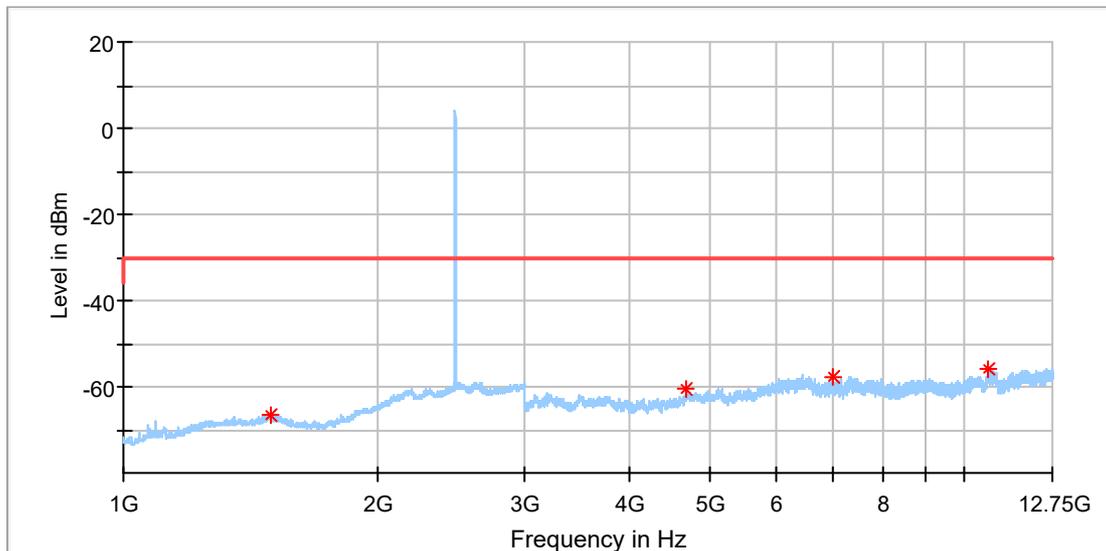


Critical Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1115.500000	-62.41	-30.00	32.41	150.0	V	219.0	-103.9
3187.000000	-56.58	-30.00	26.58	150.0	V	180.0	-94.9
4794.500000	-56.71	-30.00	26.71	150.0	V	293.0	-93.1
6505.285714	-58.02	-30.00	28.02	150.0	V	168.0	-89.7

EUT Information

EUT Name: CORDLESS ROBOTIC POOL CLEANER
 Model: PRX9
 Sample No: A003867017-001
 Test Mode: TX_BLE H CH
 Test Voltage: Battery
 Remark: Temp:23.4;Humi:50%
 Test standard: EN 300328
 Tested By: Lich Chen
 Reviewed by: Terry Yin

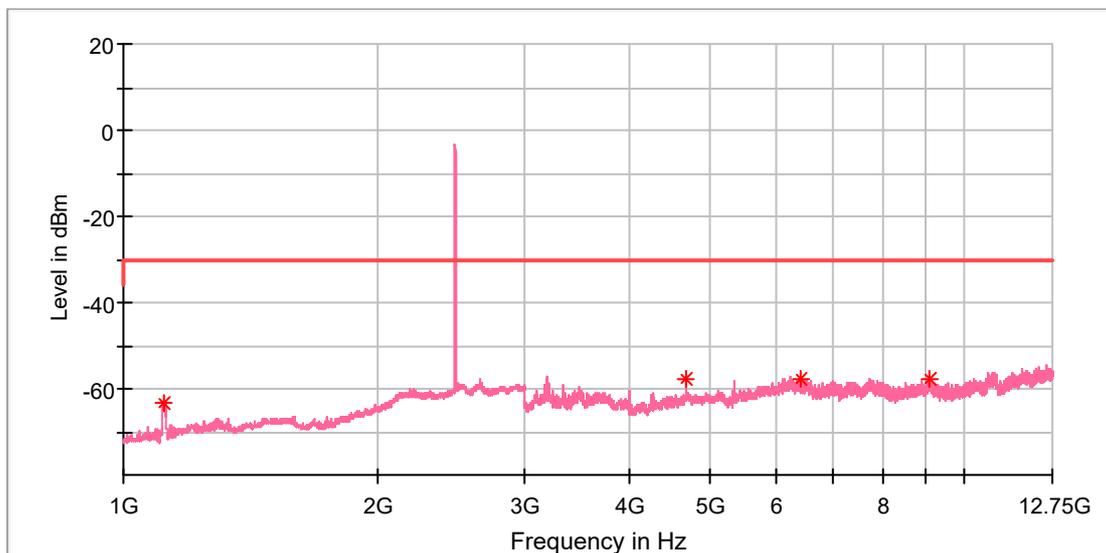


Critical Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1500.000000	-66.43	-30.00	36.43	150.0	H	347.0	-99.0
4662.000000	-60.31	-30.00	30.31	150.0	H	0.0	-92.9
6997.553572	-57.83	-30.00	27.83	150.0	H	17.0	-89.3
10699.446429	-55.94	-30.00	25.94	150.0	H	347.0	-85.6

EUT Information

EUT Name: CORDLESS ROBOTIC POOL CLEANER
 Model: PRX9
 Sample No: A003867017-001
 Test Mode: TX_BLE H CH
 Test Voltage: Battery
 Remark: Temp:23.4;Humi:50%
 Test standard: EN 300328
 Tested By: Lich Chen
 Reviewed by: Terry Yin



Critical Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1119.500000	-63.18	-30.00	33.18	150.0	V	221.0	-103.6
4662.000000	-57.45	-30.00	27.45	150.0	V	227.0	-92.7
6378.000000	-57.60	-30.00	27.60	150.0	V	185.0	-89.7
9115.607143	-57.86	-30.00	27.86	150.0	V	289.0	-87.2

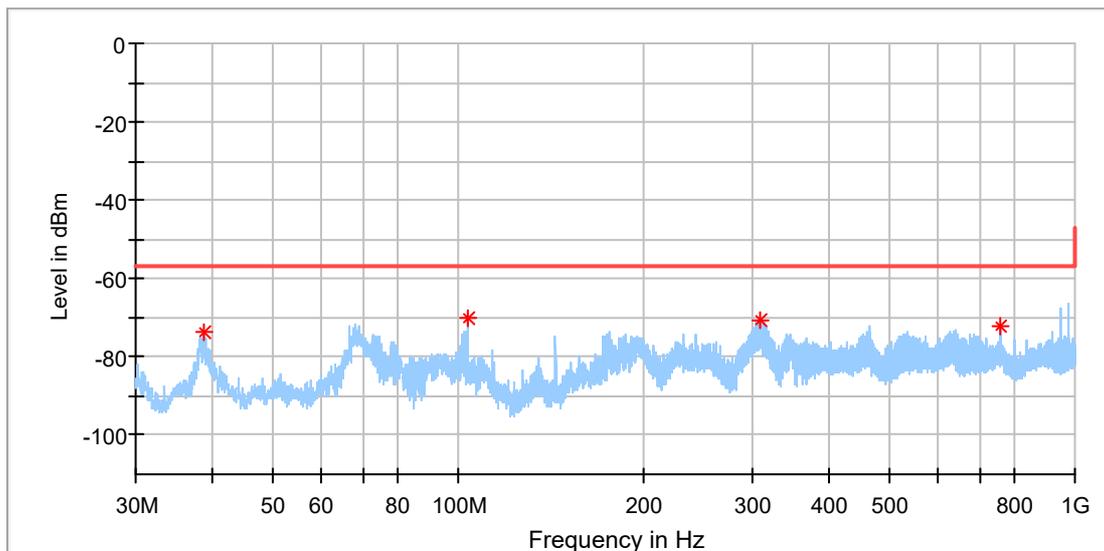
Appendix B.5: Test Results of Receiver Spurious Emissions

Note: Testing was carried out within frequency range 25 MHz to the tenth harmonics. The measurement results below 30MHz and above 12.75GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 12.75GHz were reported.

Below 1GHz

EUT Information

EUT Name:	CORDLESS ROBOTIC POOL CLEANER
Model:	PRX9
Sample No:	A003867017-001
Test Mode:	RX_BLE L CH
Test Voltage:	Battery
Remark:	Temp:23.4;Humi:50%
Test standard:	EN 300328
Tested By:	Lich Chen
Reviewed by	Terry Yin

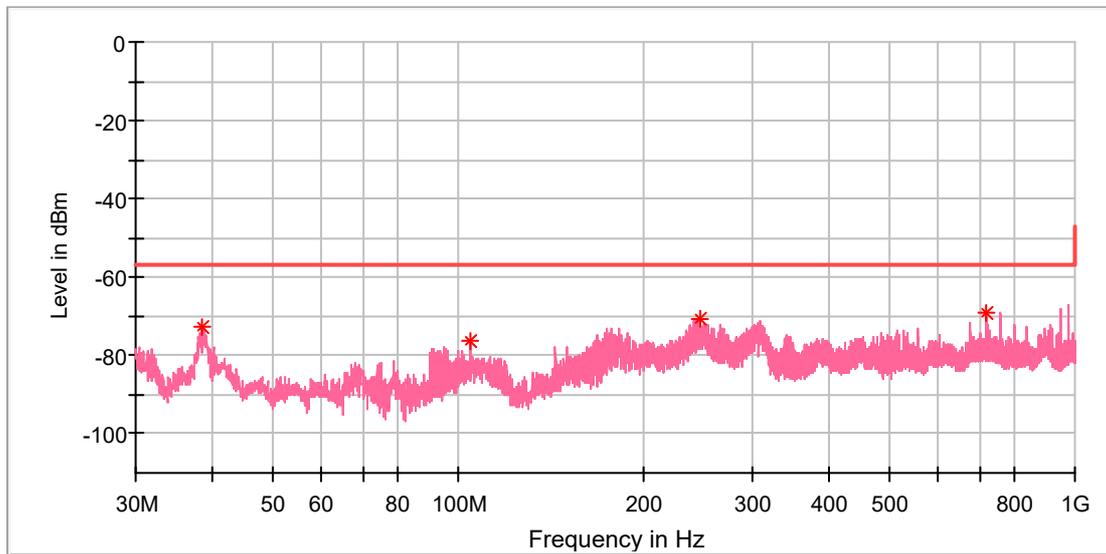


Critical Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
38.778500	-73.59	-57.00	16.59	150.0	H	100.0	-120.8
103.720000	-70.06	-57.00	13.06	150.0	H	89.0	-121.2
308.681000	-70.85	-57.00	13.85	150.0	H	52.0	-117.0
756.433000	-72.00	-57.00	15.00	150.0	H	355.0	-105.7

EUT Information

EUT Name:	CORDLESS ROBOTIC POOL CLEANER
Model:	PRX9
Sample No:	A003867017-001
Test Mode:	RX_BLE L CH
Test Voltage:	Battery
Remark:	Temp:23.4;Humi:50%
Test standard:	EN 300328
Tested By:	Lich Chen
Reviewed by	Terry Yin

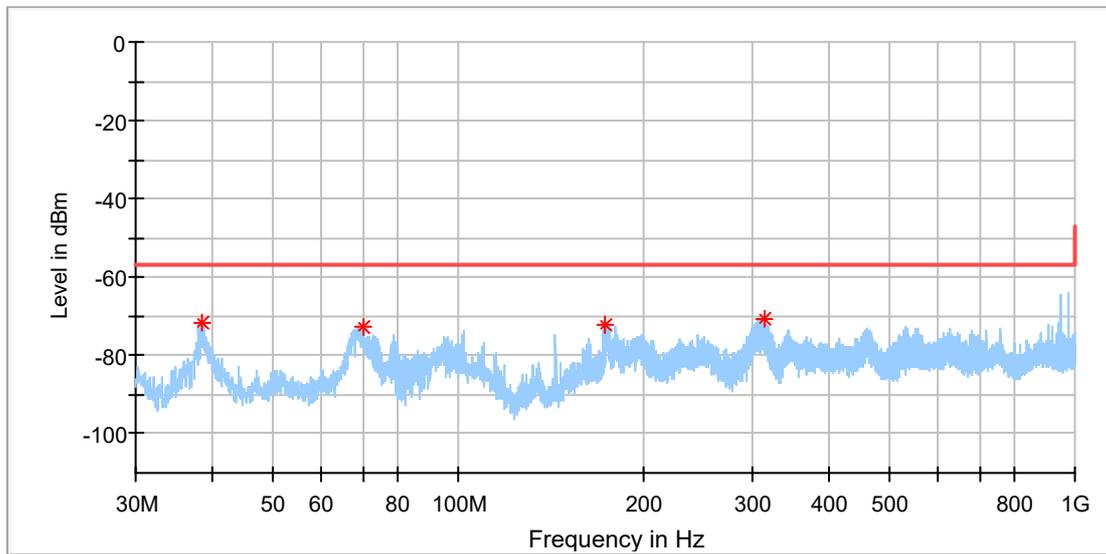


Critical Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
38.487500	-72.41	-57.00	15.41	150.0	V	259.0	-118.7
104.884000	-76.19	-57.00	19.19	150.0	V	148.0	-121.3
247.474000	-70.76	-57.00	13.76	150.0	V	343.0	-117.4
716.275000	-69.13	-57.00	12.13	150.0	V	252.0	-107.9

EUT Information

EUT Name:	CORDLESS ROBOTIC POOL CLEANER
Model:	PRX9
Sample No:	A003867017-001
Test Mode:	RX_BLE H CH
Test Voltage:	Battery
Remark:	Temp:23.4;Humi:50%
Test standard:	EN 300328
Tested By:	Lich Chen
Reviewed by	Terry Yin

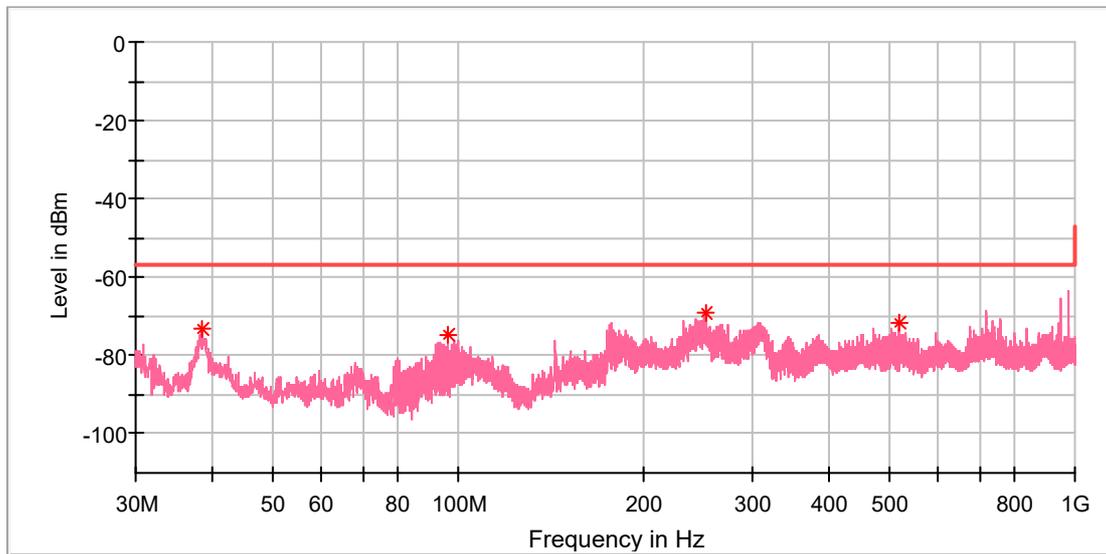


Critical Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
38.342000	-71.85	-57.00	14.85	150.0	H	118.0	-121.1
70.061000	-72.40	-57.00	15.40	150.0	H	64.0	-123.4
173.269000	-71.97	-57.00	14.97	150.0	H	82.0	-119.6
312.900500	-70.79	-57.00	13.79	150.0	H	68.0	-116.9

EUT Information

EUT Name: CORDLESS ROBOTIC POOL CLEANER
 Model: PRX9
 Sample No: A003867017-001
 Test Mode: RX_BLE H CH
 Test Voltage: Battery
 Remark: Temp:23.4;Humi:50%
 Test standard: EN 300328
 Tested By: Lich Chen
 Reviewed by: Terry Yin



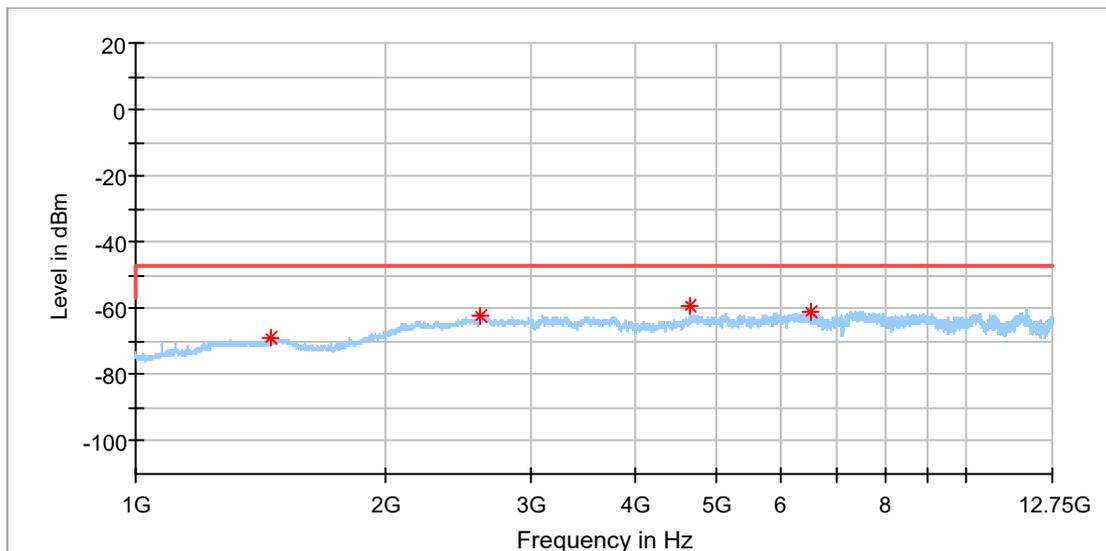
Critical Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
38.536000	-72.92	-57.00	15.92	150.0	V	305.0	-118.7
96.493500	-74.67	-57.00	17.67	150.0	V	114.0	-121.1
251.984500	-68.88	-57.00	11.88	150.0	V	2.0	-117.7
520.092500	-71.78	-57.00	14.78	150.0	V	203.0	-112.6

Above 1GHz

EUT Information

EUT Name:	CORDLESS ROBOTIC POOL CLEANER
Model:	PRX9
Sample No:	A003867017-001
Test Mode:	RX_BLE L CH
Test Voltage:	Battery
Remark:	Temp:23.4;Humi:50%
Test standard:	EN 300328
Tested By:	Lich Chen
Reviewed by	Terry Yin

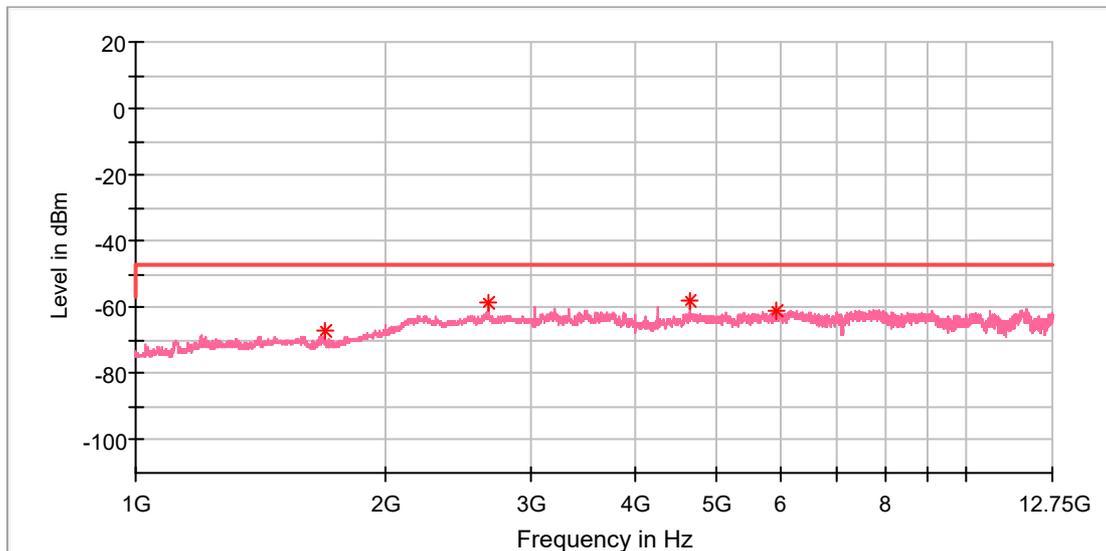


Critical Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1455.500000	-68.77	-47.00	21.77	150.0	H	243.0	-99.7
2599.500000	-62.50	-47.00	15.50	150.0	H	20.0	-92.6
4662.375000	-59.16	-47.00	12.16	150.0	H	0.0	-92.9
6499.708333	-61.27	-47.00	14.27	150.0	H	278.0	-89.2

EUT Information

EUT Name: CORDLESS ROBOTIC POOL CLEANER
 Model: PRX9
 Sample No: A003867017-001
 Test Mode: RX_BLE L CH
 Test Voltage: Battery
 Remark: Temp:23.4;Humi:50%
 Test standard: EN 300328
 Tested By: Lich Chen
 Reviewed by: Terry Yin

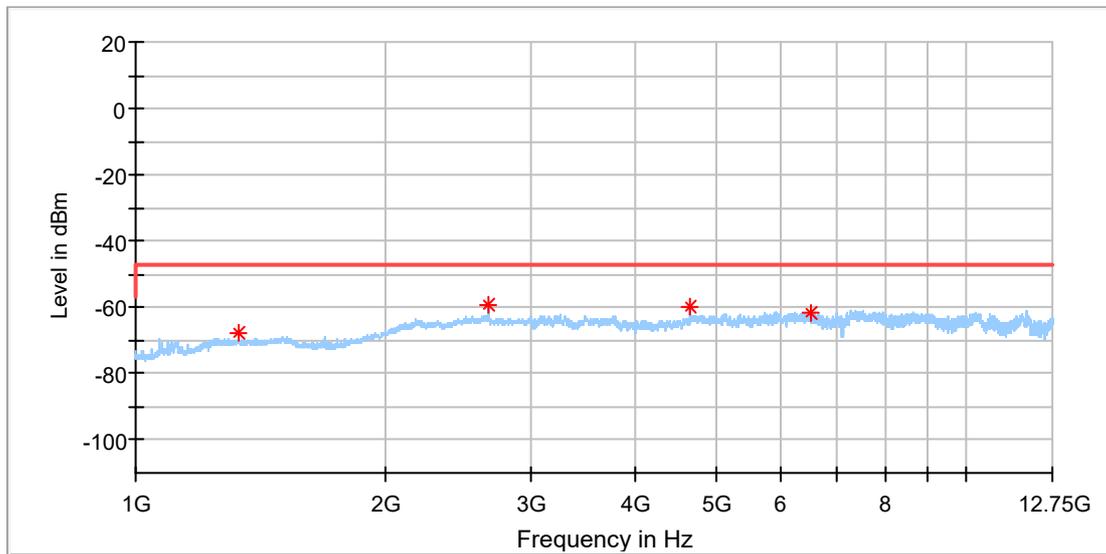


Critical Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1689.500000	-67.28	-47.00	20.28	150.0	V	206.0	-97.6
2665.500000	-58.66	-47.00	11.66	150.0	V	183.0	-91.7
4661.833333	-57.87	-47.00	10.87	150.0	V	243.0	-92.7
5919.583333	-60.97	-47.00	13.97	150.0	V	354.0	-89.8

EUT Information

EUT Name: CORDLESS ROBOTIC POOL CLEANER
 Model: PRX9
 Sample No: A003867017-001
 Test Mode: RX_BLE H CH
 Test Voltage: Battery
 Remark: Temp:23.4;Humi:50%
 Test standard: EN 300328
 Tested By: Lich Chen
 Reviewed by: Terry Yin

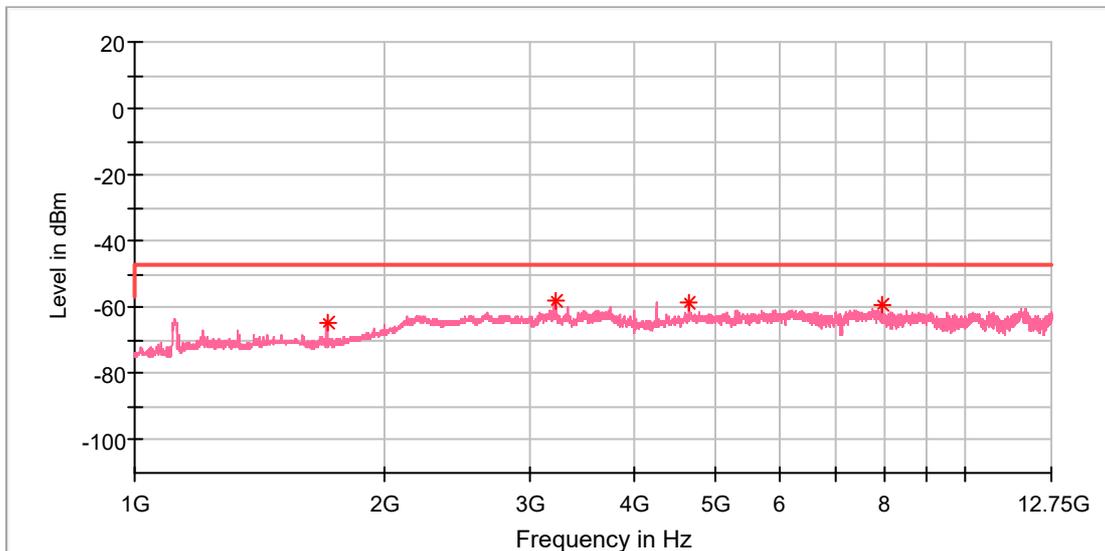


Critical Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1331.500000	-67.85	-47.00	20.85	150.0	H	234.0	-100.1
2656.000000	-59.11	-47.00	12.11	150.0	H	203.0	-92.1
4661.833333	-59.52	-47.00	12.52	150.0	H	3.0	-92.9
6504.041667	-61.44	-47.00	14.44	150.0	H	88.0	-89.2

EUT Information

EUT Name:	CORDLESS ROBOTIC POOL CLEANER
Model:	PRX9
Sample No:	A003867017-001
Test Mode:	RX_BLE H CH
Test Voltage:	Battery
Remark:	Temp:23.4;Humi:50%
Test standard:	EN 300328
Tested By:	Lich Chen
Reviewed by	Terry Yin



Critical Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1706.500000	-64.58	-47.00	17.58	150.0	V	194.0	-98.1
3217.750000	-58.09	-47.00	11.09	150.0	V	165.0	-94.9
4661.833333	-58.65	-47.00	11.65	150.0	V	236.0	-92.7
7957.875000	-59.47	-47.00	12.47	150.0	V	308.0	-88.6

Appendix B.6: Test Results of Receiver Blocking

TestMode	Antenna	Frequency [MHz]	Pmin [dBm]	Wanted signal [dBm]	Freq. [MHz]	CW [dBm]	PER [%]	Limit [%]	Verdict
BLE_1M	Ant1	2402	---	-65.7	2300	-30.98	0.10	≤10	PASS
			---	-65.7	2380	-30.98	0.00	≤10	PASS
		2480	---	-65.69	2504	-30.98	0.00	≤10	PASS
			---	-65.69	2584	-30.98	0.20	≤10	PASS

