

TEST REPORT

Test Items: Radiation 18-25GHz

Applicant: Qihan Technology Co.,LTD

Address of applicant: China National Offshore Oil Building, No.3168 Houhaibin
Road, Nanshan District, Shenzhen, China

Product Description: Intelligent Robot

Tested Model: T1-A1-L

Tested Date: October 18, 2017

Tested By: Peng Shiqing / Engineer

Approved & Authorized By: Andy Yeh / Technical Director

Prepared By:

Peng Shiqing
Andy Yeh

Shenzhen Morlab Communications Technology Co., Ltd.
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Block 67, BanAn District, Shenzhen, GuangDong Province, P.R. China

Shenzhen Morlab Communications Technology Co., Ltd. Test Firm Registration Number is CN1192 which compliance with ANSI C63.10-2013 and ANSI/TIA-603-D:2010.

Test Equipment List

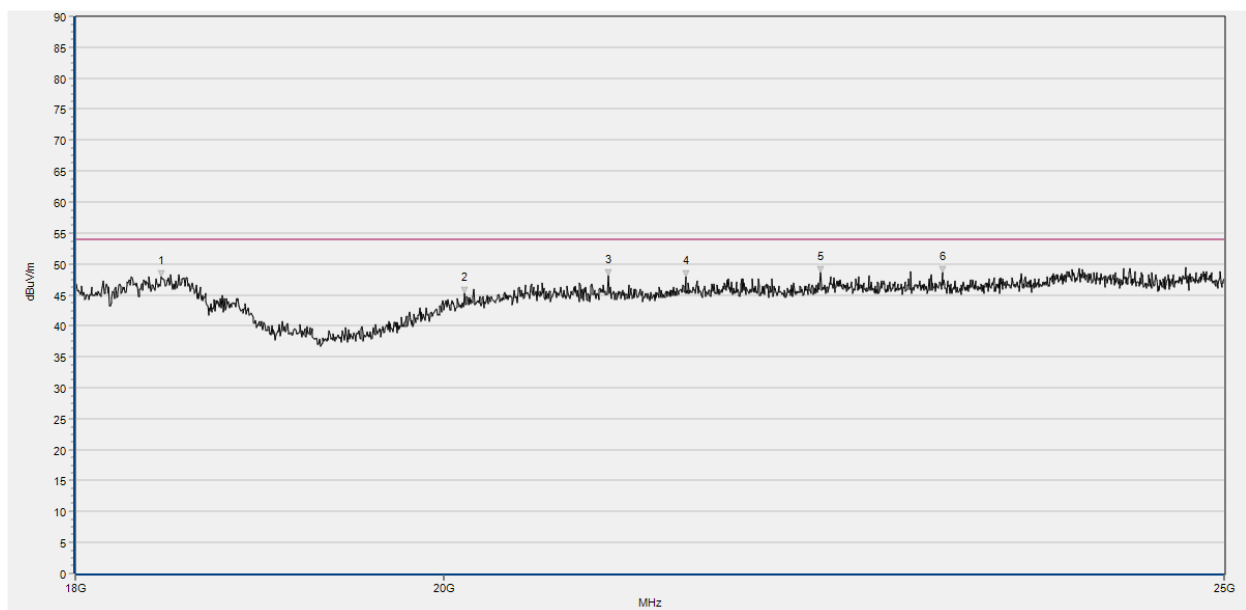
Description	Manufacturer	Model	Serial No.	Cal. Date	Due. Date
MXE EMI Receiver	Agilent	N9038A	MY54130016	2017.05.17	2018.05.16
Semi-Anechoic Chamber	Changning	9m*6m*6m	N/A	2017.01.11	2018.01.10
Test Antenna - Bi-Log	Schwarzbeck	VULB 9163	9163-274	2016.12.09	2017.12.08
Test Antenna - Horn	Schwarzbeck	BBHA9120 C	9120C-384	2017.03.30	2018.03.29
Test Antenna - Horn	Schwarzbeck	BBHA9170	BBHA9170#773	2017.09.13	2018.09.12

Spurious Emissions Above 18GHz

FCC Part 15.205, 15.209 and 15.247 standards

EUT: *Intelligent Robot*
Tested Model: *T1-A1-L*
Operating Condition: *Worst case WIFI 802.11b Low Channel (2412MHz)*
Comment: *DC 14.8V*

Test Specification: *Vertical*

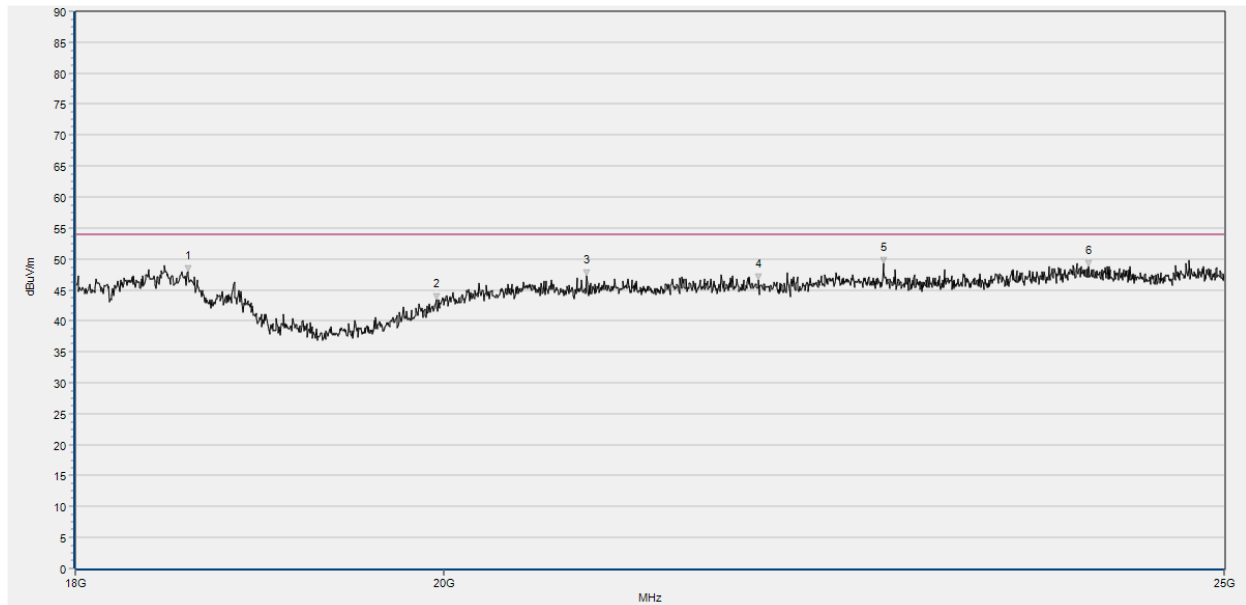


Num	Freq(MHz)	PK	limit AV	Degree	Antenna	Verdict
1	18445.790	47.86	54.00	9.8	V	PASS
2	20119.985	45.21	54.00	30.1	V	PASS
3	20963.193	48.12	54.00	156.4	V	PASS
4	21431.642	47.89	54.00	263.9	V	PASS
5	22274.850	48.56	54.00	137.2	V	PASS
6	23065.103	48.61	54.00	166.3	V	PASS

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Tested Model: *T1-A1-L*
Operating Condition: *Worst case WIFI 802.11b Low Channel (2412MHz)*
Comment: *DC 14.8V*

Test Specification: *Horizontal*

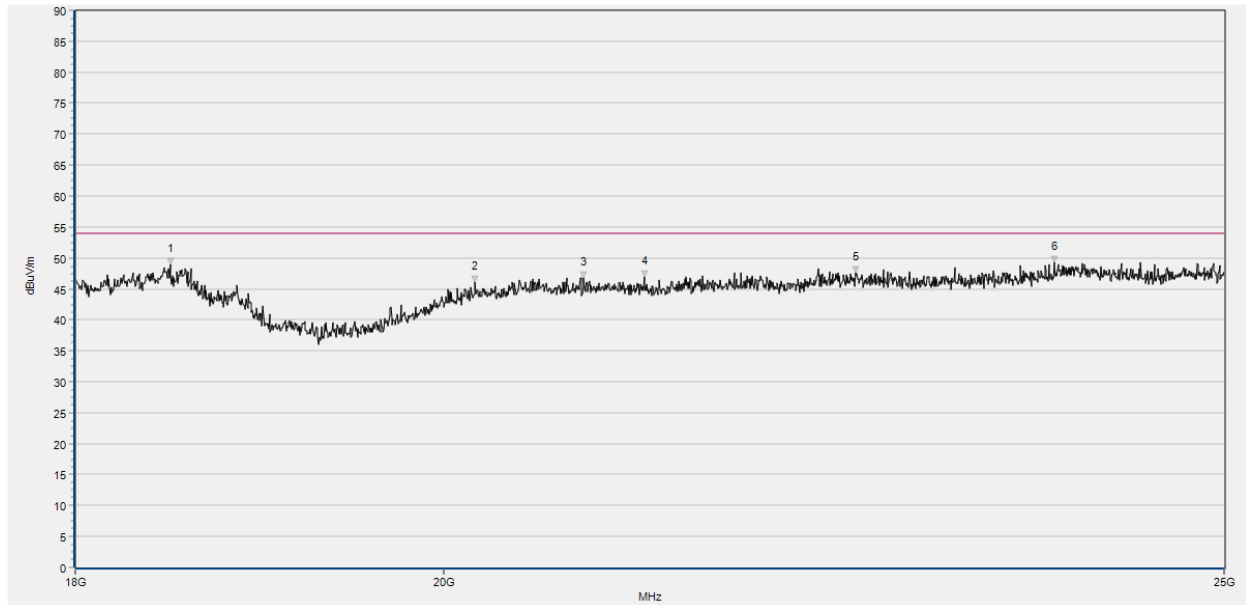


Num	Freq(MHz)	PK	limit AV	Degree	Antenna	Verdict
1	18588.362	47.88	54.00	0.0	H	PASS
2	19957.047	43.48	54.00	107.4	H	PASS
3	20832.842	47.32	54.00	213.8	H	PASS
4	21883.797	46.61	54.00	107.4	H	PASS
5	22678.123	49.29	54.00	145.6	H	PASS
6	24050.882	48.78	54.00	145.6	H	PASS

Shenzhen Morlab Communications Technology Co., Ltd.

EUT: Intelligent Robot
Tested Model: T1-A1-L
Operating Condition: Worst case BT DH5 Low Channel (2402MHz)
Comment: DC 14.8V

Test Specification: Vertical

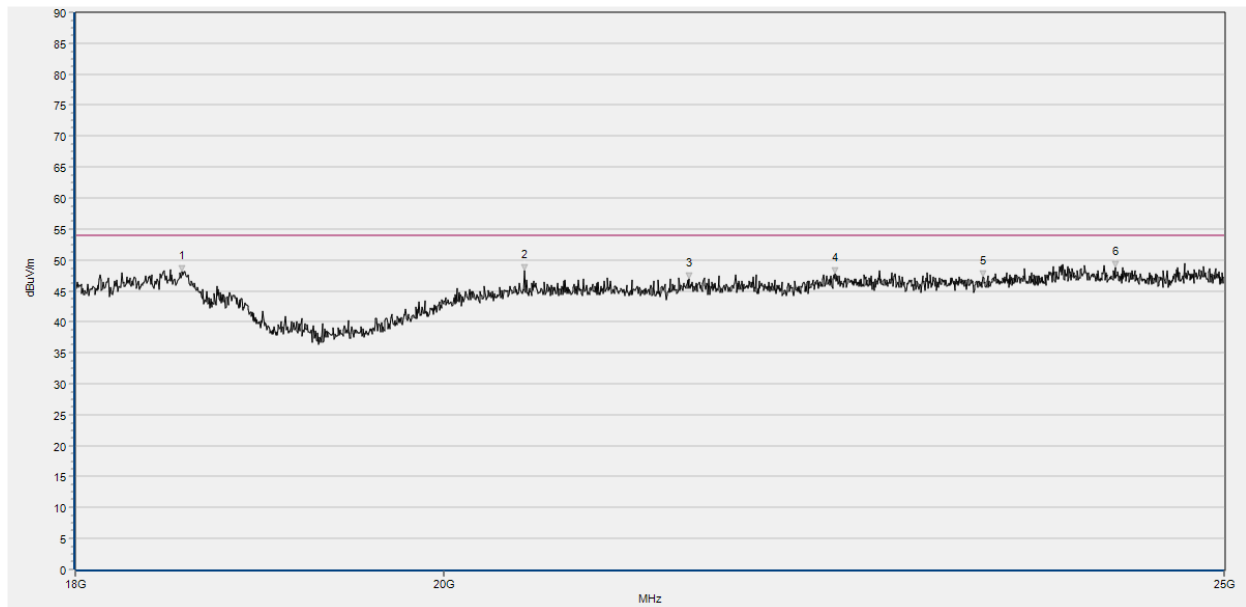


Num	Freq(MHz)	PK	limit AV	Degree	Antenna	Verdict
1	18494.672	48.90	54.00	250.2	V	PASS
2	20181.087	46.08	54.00	210.4	V	PASS
3	20816.548	46.69	54.00	288.4	V	PASS
4	21179.087	47.00	54.00	350.2	V	PASS
5	22498.891	47.59	54.00	309.4	V	PASS
6	23814.621	49.24	54.00	350.2	V	PASS

Shenzhen Morlab Communications Technology Co., Ltd.

EUT: *Intelligent Robot*
Tested Model: *T1-A1-L*
Operating Condition: *Worst case BT DH5 Low Channel (2402MHz)*
Comment: *DC 14.8V*

Test Specification: *Horizontal*

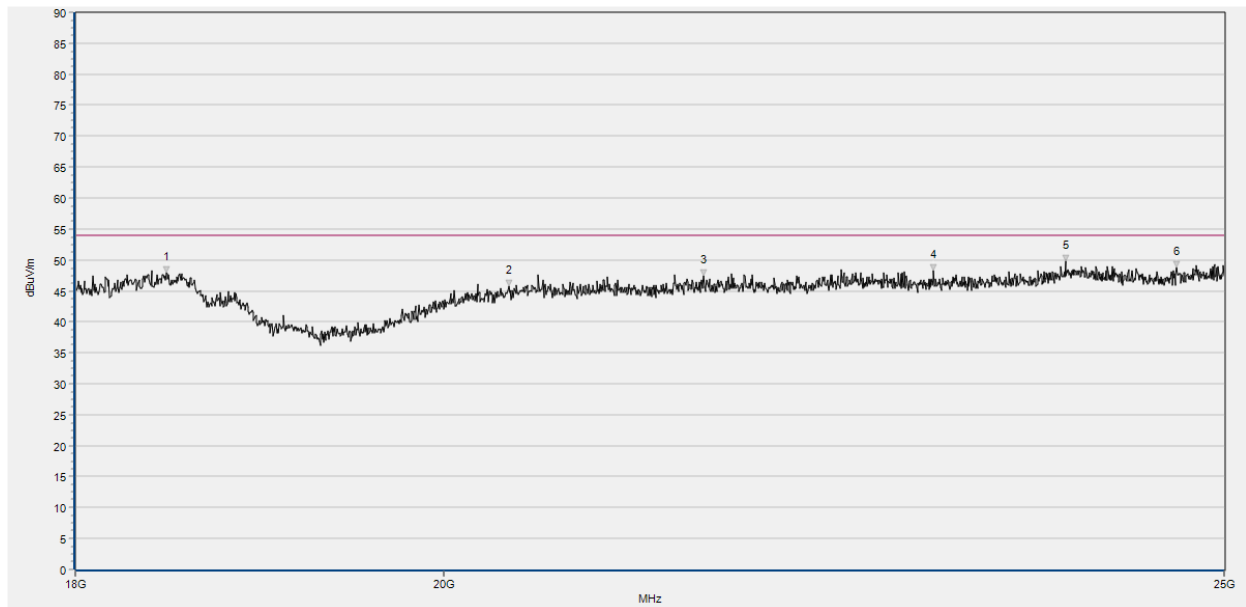


Num	Freq(MHz)	PK	limit AV	Degree	Antenna	Verdict
1	18559.847	48.07	54.00	107.8	H	PASS
2	20466.230	48.22	54.00	253.3	H	PASS
3	21452.009	46.85	54.00	117.7	H	PASS
4	22368.540	47.73	54.00	127.4	H	PASS
5	23333.952	47.22	54.00	263.2	H	PASS
6	24234.188	48.77	54.00	137.0	H	PASS

Shenzhen Morlab Communications Technology Co., Ltd.

EUT: Intelligent Robot
Tested Model: T1-A1-L
Operating Condition: Worst case BT BLE Low Channel (2402MHz)
Comment: DC 14.8V

Test Specification: Vertical

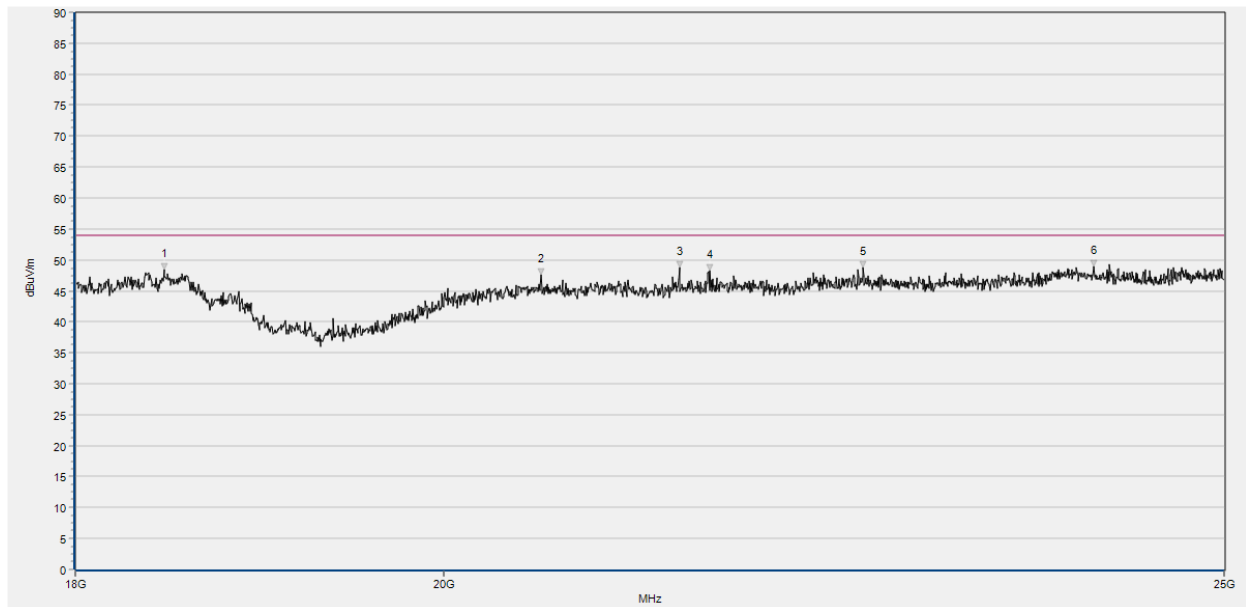


Num	Freq(MHz)	PK	limit AV	Degree	Antenna	Verdict
1	18474.304	47.87	54.00	34.1	V	PASS
2	20376.614	45.77	54.00	0.4	V	PASS
3	21541.626	47.42	54.00	100.8	V	PASS
4	23008.074	48.21	54.00	43.4	V	PASS
5	23892.017	49.72	54.00	110.4	V	PASS
6	24661.902	48.78	54.00	177.6	V	PASS

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EUT: *Intelligent Robot*
Tested Model: *T1-A1-L*
Operating Condition: *Worst case BT BLE Low Channel (2402MHz)*
Comment: *DC 14.8V*

Test Specification: *Horizontal*

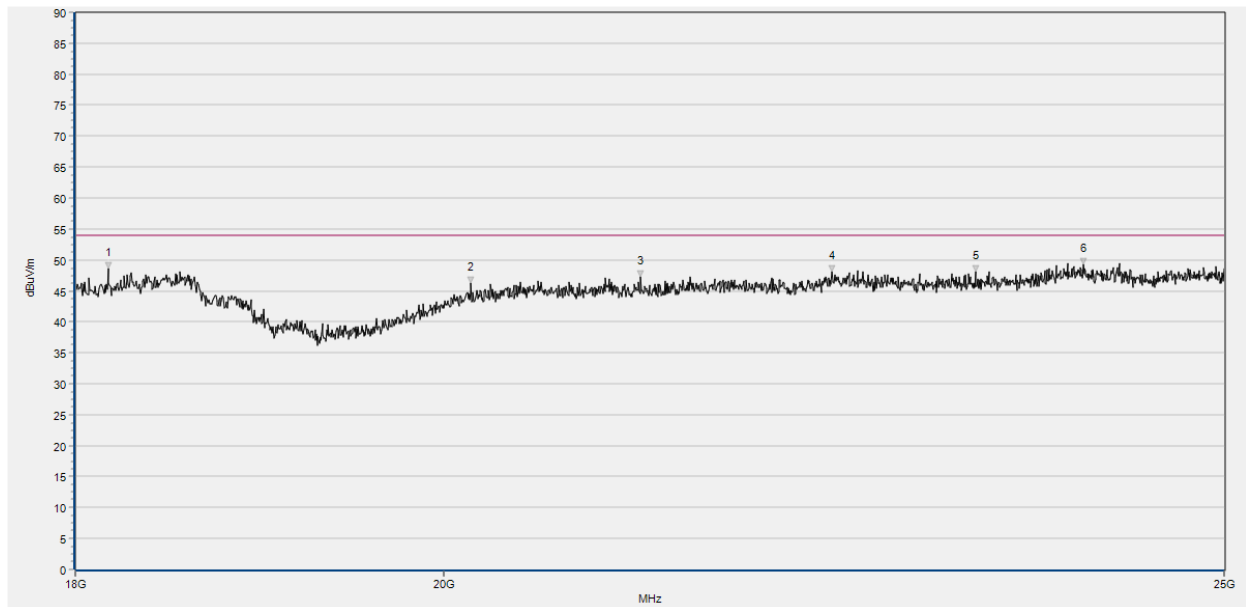


Num	Freq(MHz)	PK	limit AV	Degree	Antenna	Verdict
1	18462.084	48.41	54.00	38.5	H	PASS
2	20563.993	47.57	54.00	318.0	H	PASS
3	21394.981	48.82	54.00	279.7	H	PASS
4	21582.360	48.21	54.00	192.8	H	PASS
5	22547.772	48.73	54.00	115.5	H	PASS
6	24087.543	48.94	54.00	28.6	H	PASS

Shenzhen Morlab Communications Technology Co., Ltd.

EUT: Intelligent Robot
Tested Model: T1-A1-L
Operating Condition: Worst case Zigbee Low Channel (2405MHz)
Comment: DC 14.8V

Test Specification: Vertical

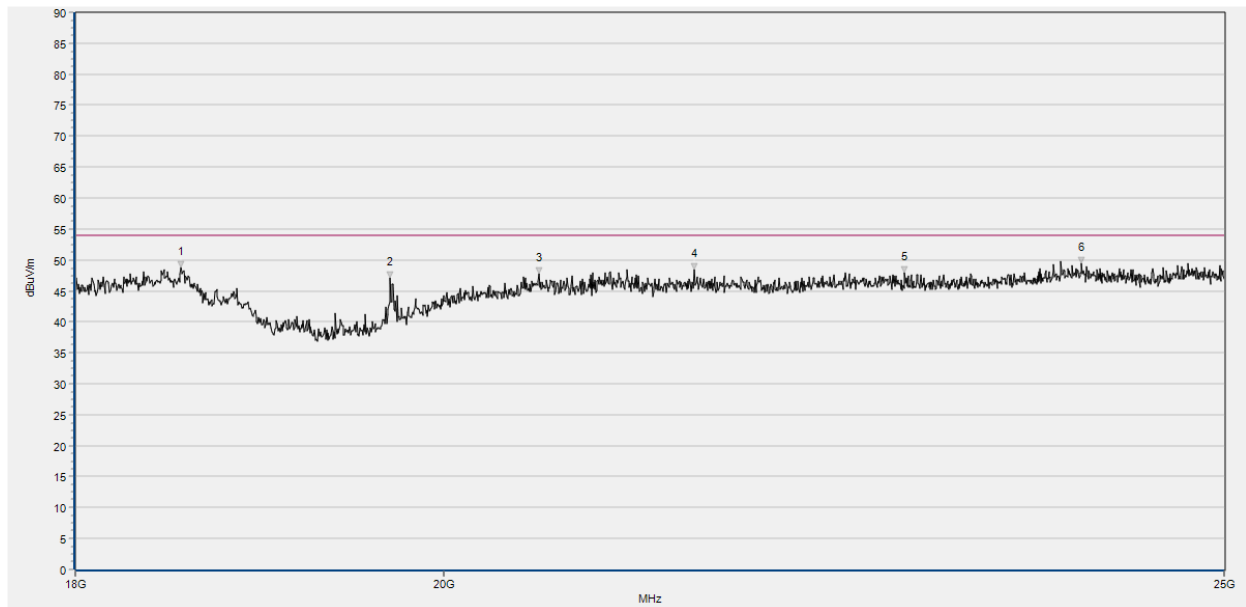


Num	Freq(MHz)	PK	limit AV	Degree	Antenna	Verdict
1	18168.794	48.55	54.00	201.9	V	PASS
2	20156.647	46.19	54.00	77.0	V	PASS
3	21158.720	47.18	54.00	2.0	V	PASS
4	22348.172	48.05	54.00	336.9	V	PASS
5	23285.070	48.13	54.00	124.7	V	PASS
6	24014.221	49.24	54.00	18.7	V	PASS

Shenzhen Morlab Communications Technology Co., Ltd.

EUT: *Intelligent Robot*
Tested Model: *T1-A1-L*
Operating Condition: *Worst case Zigbee Low Channel (2405MHz)*
Comment: *DC 14.8V*

Test Specification: *Horizontal*



Num	Freq(MHz)	PK	limit AV	Degree	Antenna	Verdict
1	18551.700	48.78	54.00	70.4	H	PASS
2	19696.345	47.05	54.00	292.9	H	PASS
3	20551.773	47.77	54.00	118.3	H	PASS
4	21484.597	48.44	54.00	108.6	H	PASS
5	22816.621	47.97	54.00	321.7	H	PASS
6	24002.000	49.41	54.00	195.8	H	PASS

Test Setup Photographs



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