

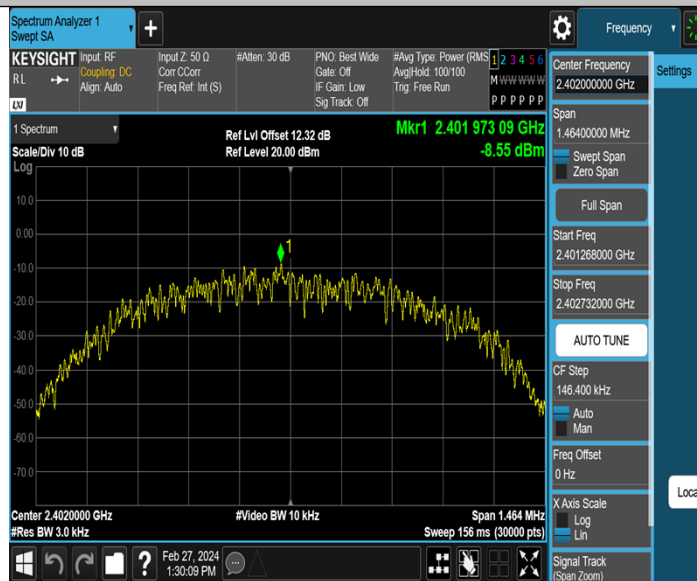
Appendix B: Test Results of Bluetooth LE & Conducted Emission

APPENDIX B: TEST RESULTS OF BLUETOOTH LE & CONDUCTED EMISSION.....	1
APPENDIX B.1: TEST RESULTS OF CONDUCTED POWER SPECTRAL DENSITY.....	2
APPENDIX B.2: TEST RESULTS OF 6dB BANDWIDTH	4
APPENDIX B.3: TEST RESULTS OF 99% BANDWIDTH	6
APPENDIX B.4: TEST RESULTS OF CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 kHz BANDWIDTH	8
<i>Band Edge</i>	8
<i>Conducted Spurious Emission</i>	9
APPENDIX B.5: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS	13
30 MHz - 1GHz	13
1GHz - 18GHz	15
APPENDIX B.6: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS.....	27
APPENDIX B.7: TEST RESULTS OF CONDUCTED EMISSION ON AC MAINS	31

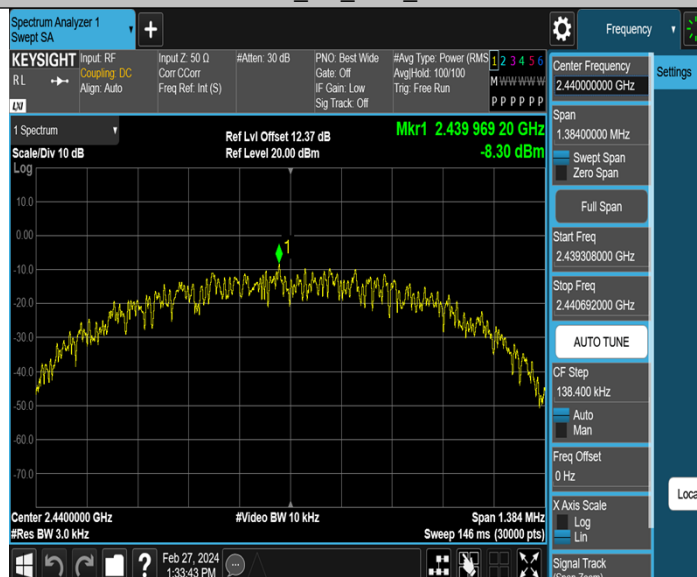
Appendix B.1: Test Results of Conducted Power Spectral Density

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-8.55	≤8.00	PASS
		2440	-8.30	≤8.00	PASS
		2480	-8.63	≤8.00	PASS

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440





Appendix B.2: Test Results of 6dB Bandwidth

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.732	2401.624	2402.356	0.5	PASS
		2440	0.692	2439.652	2440.344	0.5	PASS
		2480	0.708	2479.640	2480.348	0.5	PASS

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440

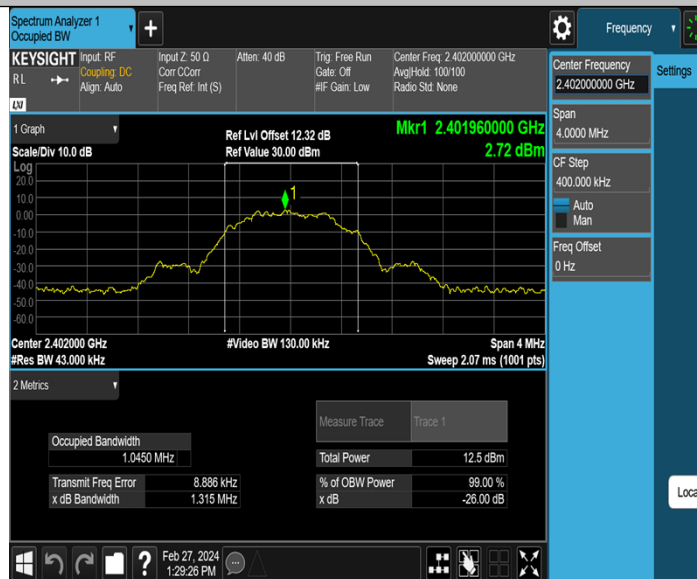




Appendix B.3: Test Results of 99% Bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0450	2401.4864	2402.5314	---	PASS
		2440	1.0420	2439.4861	2440.5281	---	PASS
		2480	1.0447	2479.4845	2480.5292	---	PASS

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440





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

Band Edge

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	5.581	-48.89	≤-14.42	PASS
		High	2480	6.236	-50.08	≤-13.76	PASS

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



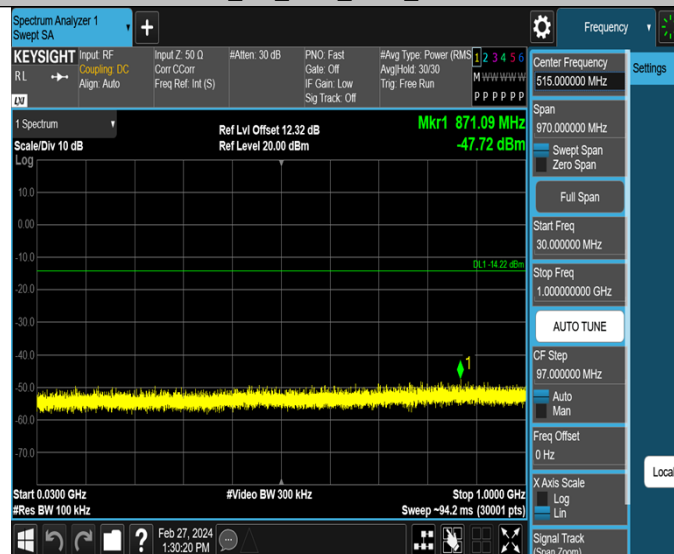
Conducted Spurious Emission

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	5.78	5.78	---	PASS
			30~1000	5.78	-47.72	≤-14.22	PASS
			1000~26500	5.78	-38.09	≤-14.22	PASS
		2440	Reference	5.89	5.89	---	PASS
			30~1000	5.89	-48.36	≤-14.11	PASS
			1000~26500	5.89	-38.61	≤-14.11	PASS
		2480	Reference	6.32	6.32	---	PASS
			30~1000	6.32	-47.95	≤-13.68	PASS
			1000~26500	6.32	-38.28	≤-13.68	PASS

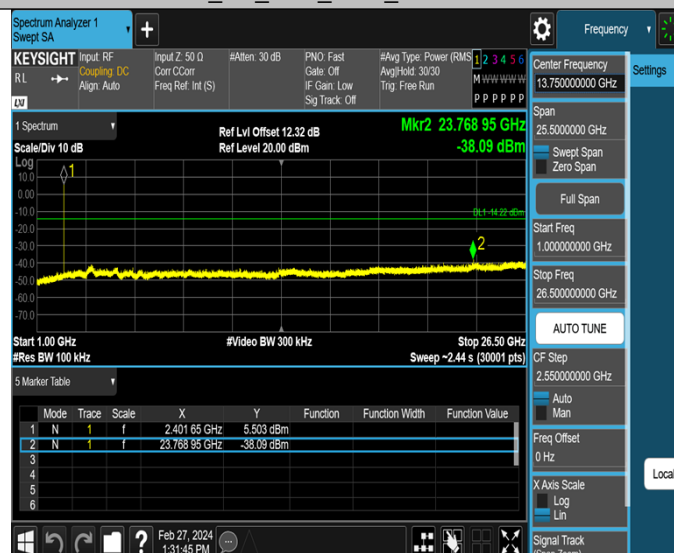
BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



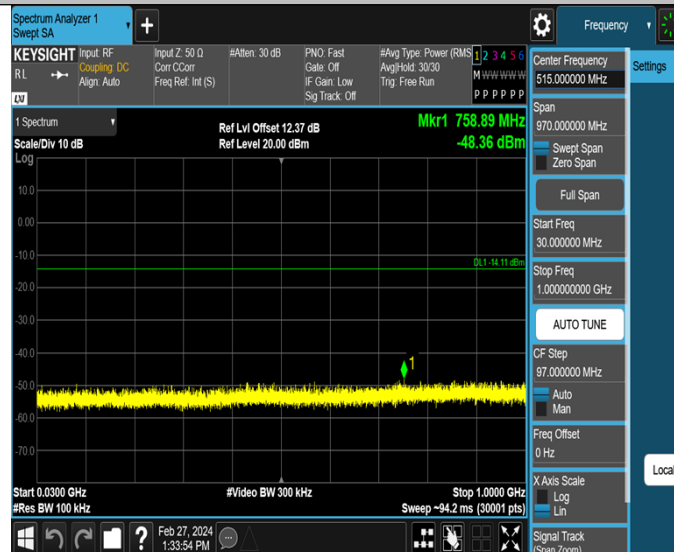
BLE_1M_Ant1_2402_1000~26500



BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



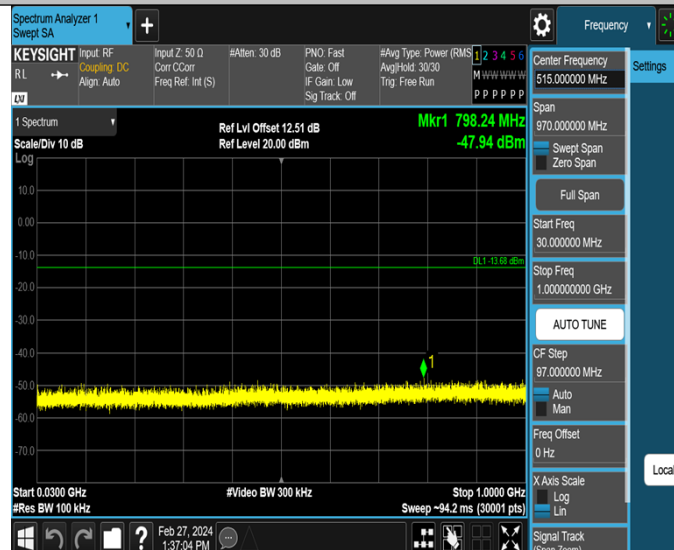
BLE_1M_Ant1_2440_1000~26500



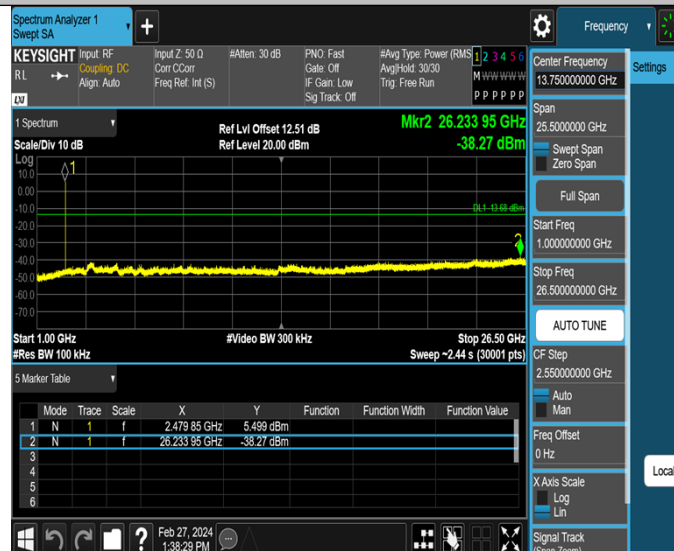
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



Appendix B.5: Test Results of Radiated Spurious Emissions

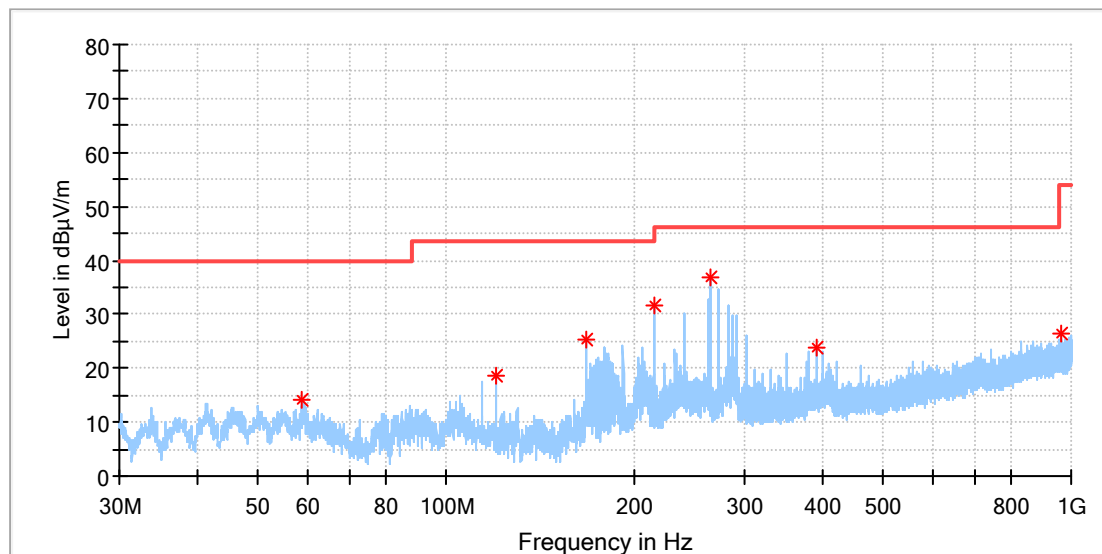
Note:

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

30 MHz - 1GHz

EUT Information

EUT Name: Lawn Mowing Robot
Model: MPB14
Test Mode: BLE 1M_Mid channel
Order No/Sample No: 168459797/A003634855-001
Test Voltage: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

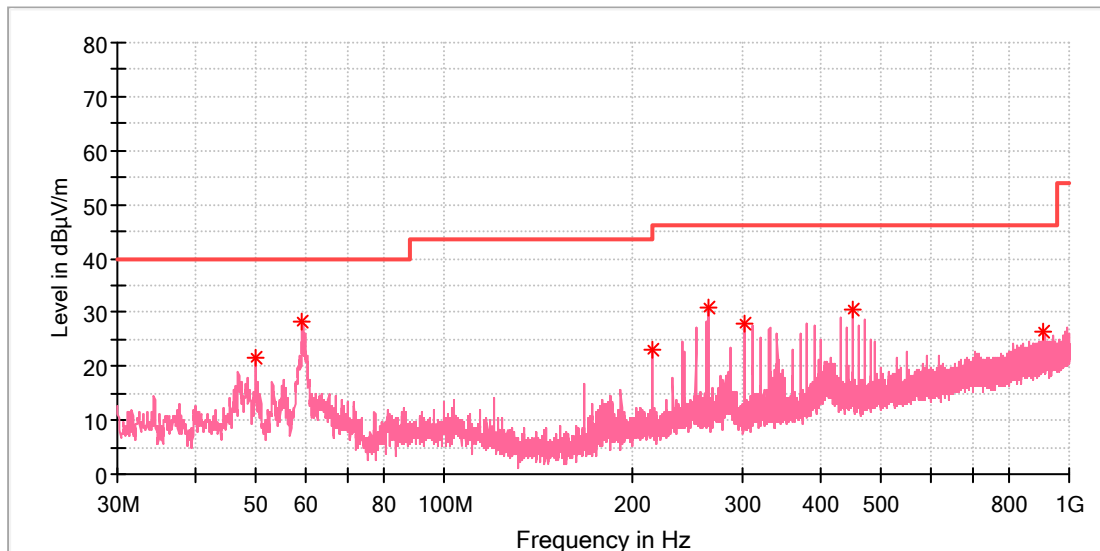
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
58.913462	14.26	40.00	25.74	100.0	H	225.0	-19.2
119.986154	18.76	43.50	24.74	100.0	H	184.0	-21.1
168.001154	25.44	43.50	18.06	100.0	H	184.0	-21.7
216.016154	31.60	46.00	14.40	100.0	H	35.0	-19.0
263.993846	36.89	46.00	9.11	100.0	H	209.0	-17.4
391.063846	23.79	46.00	22.21	100.0	H	0.0	-14.3
961.088077	26.28	54.00	27.72	100.0	H	4.0	-4.7

Final Result

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

EUT Information

EUT Name: Lawn Mowing Robot
Model: MPB14
Test Mode: BLE 1M_Mid channel
Order No/Sample No: 168459797/A003634855-001
Test Voltage: Battery
Remark: Temp 24 Humi:50%
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)
49.996923	21.60	40.00	18.40	100.0	V	146.0	-18.6
59.361154	28.21	40.00	11.79	100.0	V	74.0	-19.2
216.016154	23.23	46.00	22.77	100.0	V	198.0	-19.0
263.993846	30.71	46.00	15.29	100.0	V	253.0	-17.4
301.973077	27.86	46.00	18.14	100.0	V	253.0	-16.6
450.457692	30.40	46.00	15.60	100.0	V	11.0	-13.3
910.685385	26.37	46.00	19.63	100.0	V	171.0	-5.3

Final Result

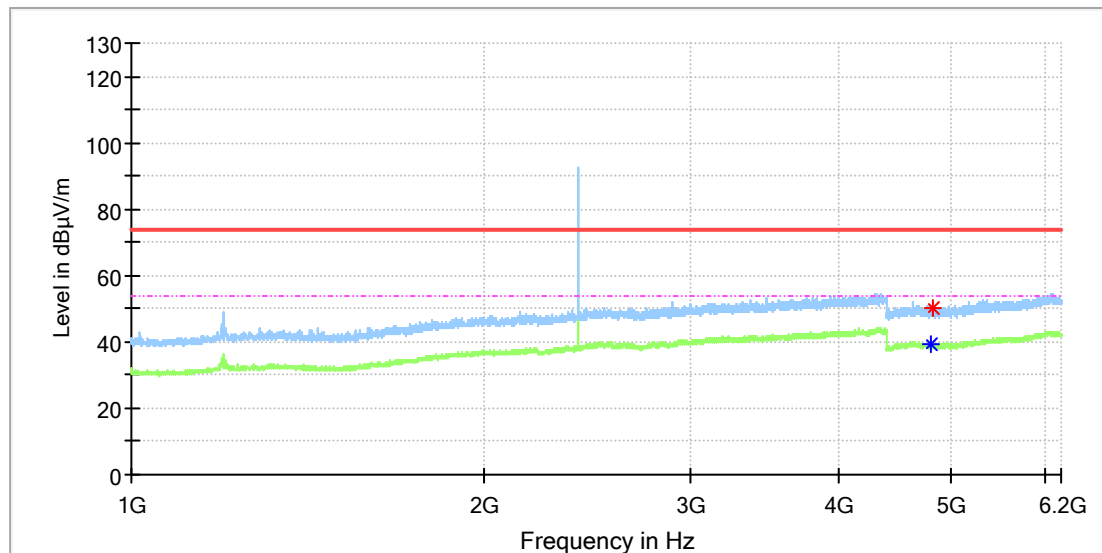
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

1GHz - 18GHz

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

EUT Information

EUT Name:	Lawn Mowing Robot
Model:	MPB14
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168459797/A003634855-001
Test Voltage:	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

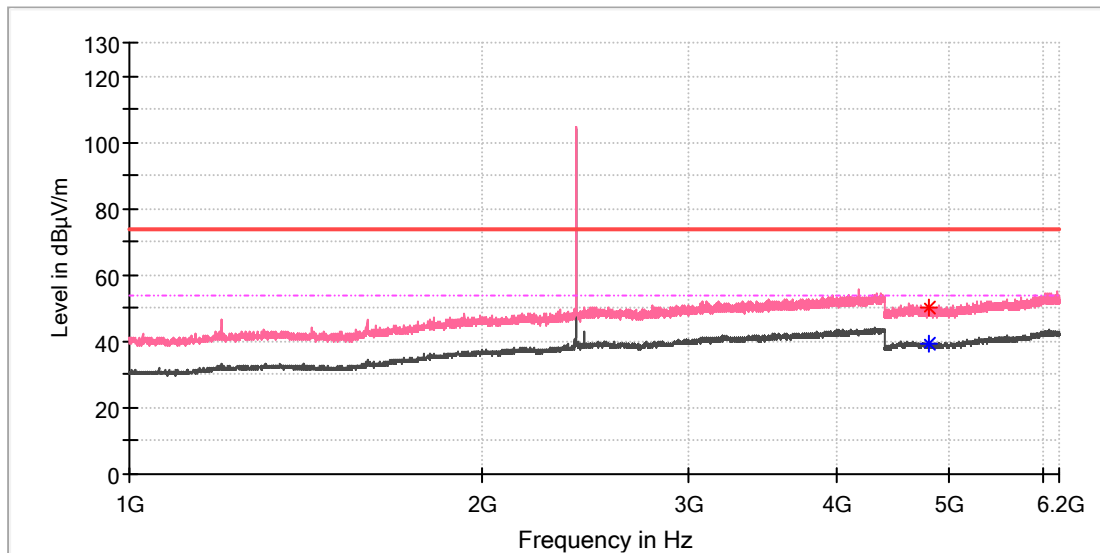
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4802.000000	---	39.49	54.00	14.51	150.0	H	117.0	11.8
4816.000000	50.19	---	74.00	23.81	150.0	H	135.0	11.8

Final_Result

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

EUT Information

EUT Name: Lawn Mowing Robot
Model: MPB14
Test Mode: BLE 1M_Low channel
Order No/Sample No: 168459797/A003634855-001
Test Voltage: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

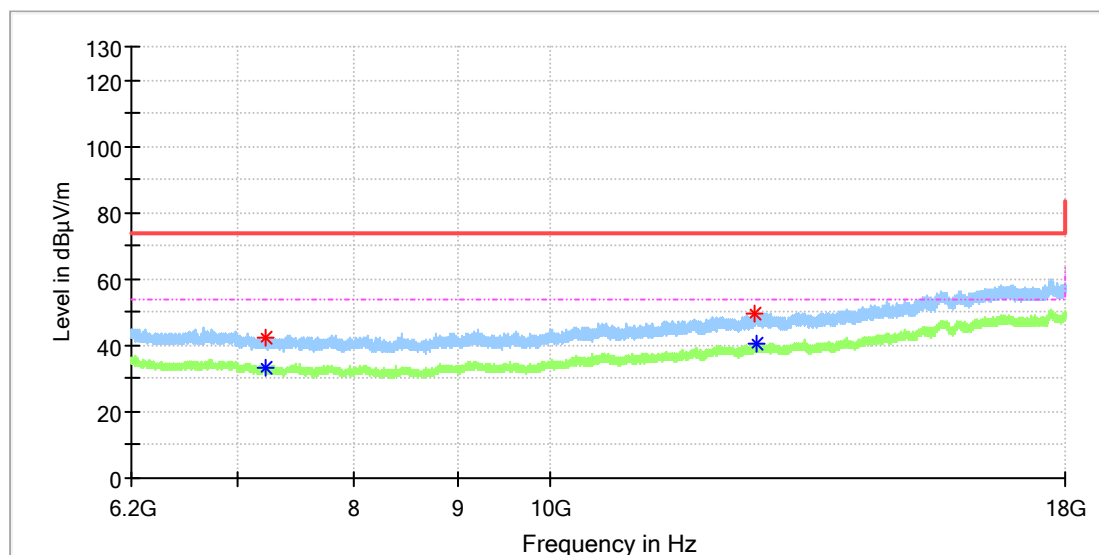
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4803.000000	50.39	---	74.00	23.61	150.0	V	296.0	11.8
4810.500000	---	39.28	54.00	14.72	150.0	V	193.0	11.8

Final Result

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

EUT Information

EUT Name: Lawn Mowing Robot
Model: MPB14
Test Mode: BLE 1M_Low channel
Order No/Sample No: 168459797/A003634855-001
Test Voltage: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

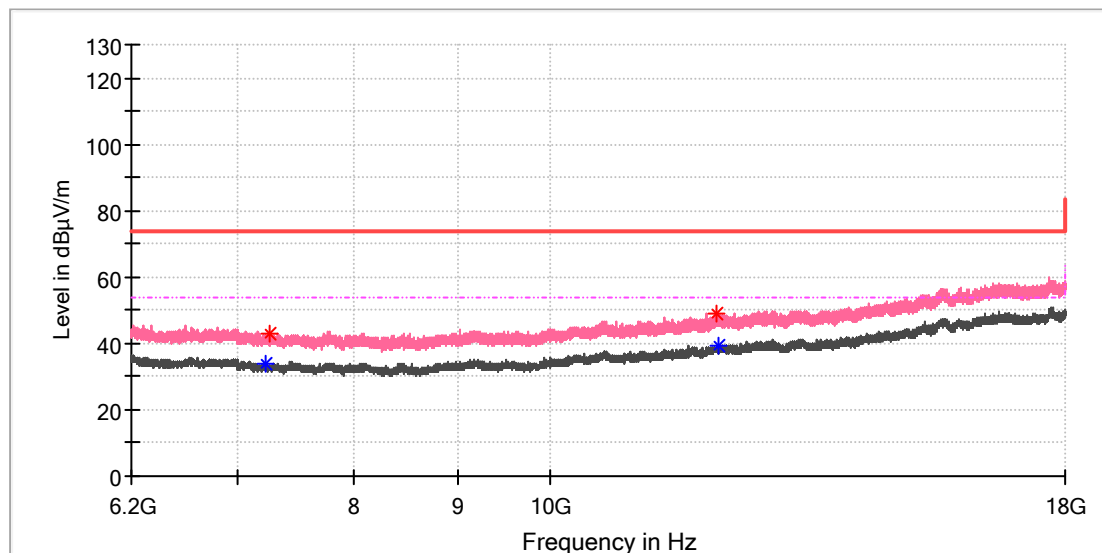
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7224.633333	42.18	---	74.00	31.82	150.0	H	255.0	8.7
7233.483333	---	33.46	54.00	20.54	150.0	H	113.0	8.6
12634.933333	49.76	---	74.00	24.24	150.0	H	208.0	15.0
12666.891667	---	40.26	54.00	13.74	150.0	H	342.0	15.1

Final Result

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

EUT Information

EUT Name: Lawn Mowing Robot
Model: MPB14
Test Mode: BLE 1M_Low channel
Order No/Sample No: 168459797/A003634855-001
Test Voltage: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

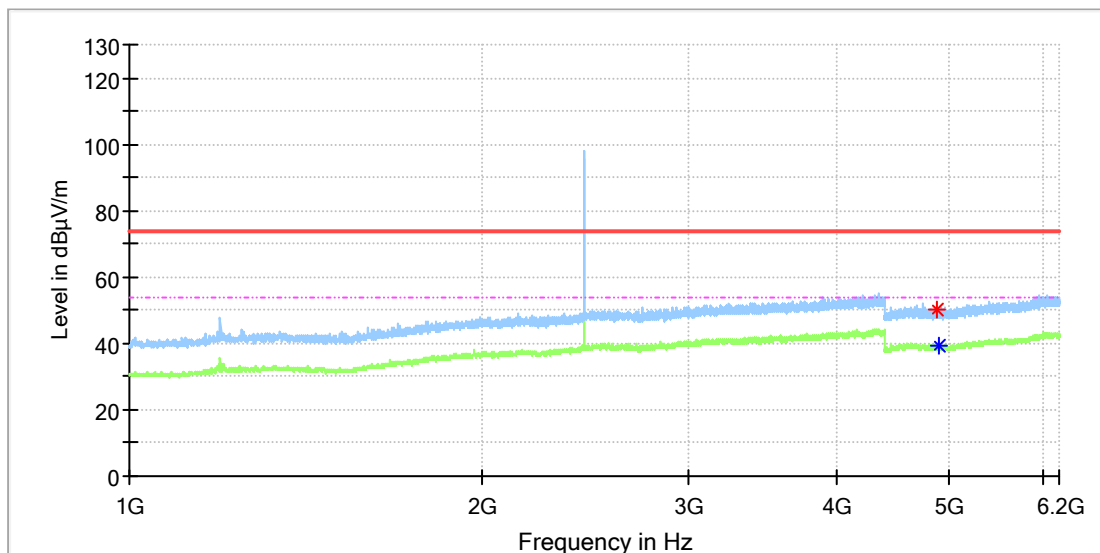
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7229.550000	---	33.69	54.00	20.31	150.0	V	214.0	8.6
7255.116667	42.94	---	74.00	31.06	150.0	V	2.0	8.5
12078.366667	48.72	---	74.00	25.28	150.0	V	263.0	14.1
12129.008333	---	39.47	54.00	14.53	150.0	V	251.0	14.3

Final Result

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

EUT Information

EUT Name: Lawn Mowing Robot
Model: MPB14
Test Mode: BLE 1M_Mid channel
Order No/Sample No: 168459797/A003634855-001
Test Voltage: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

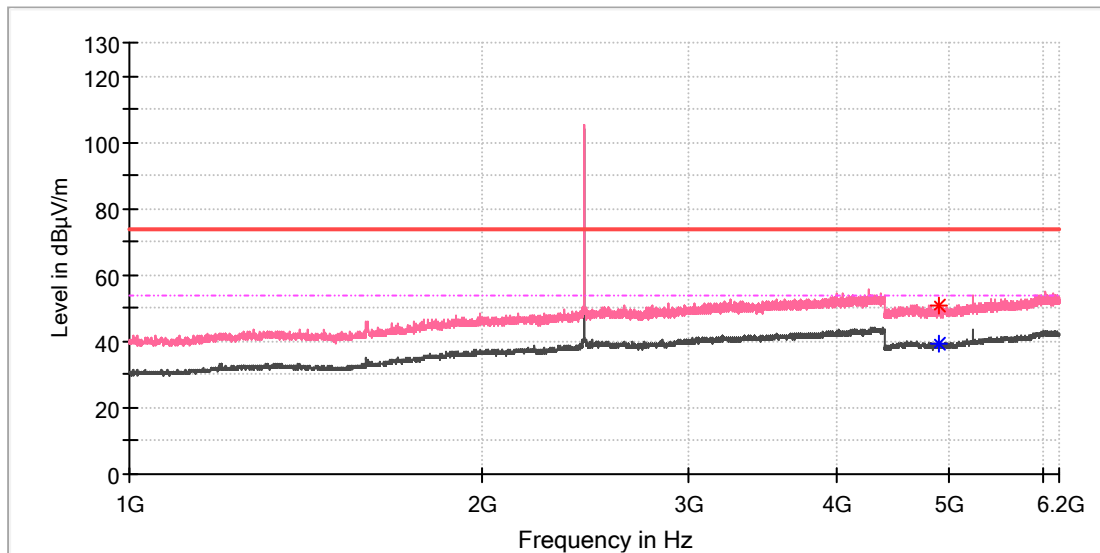
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4870.500000	50.10	---	74.00	23.90	150.0	H	1.0	11.8
4895.000000	---	39.35	54.00	14.65	150.0	H	50.0	11.8

Final Result

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

EUT Information

EUT Name: Lawn Mowing Robot
Model: MPB14
Test Mode: BLE 1M_Mid channel
Order No/Sample No: 168459797/A003634855-001
Test Voltage: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

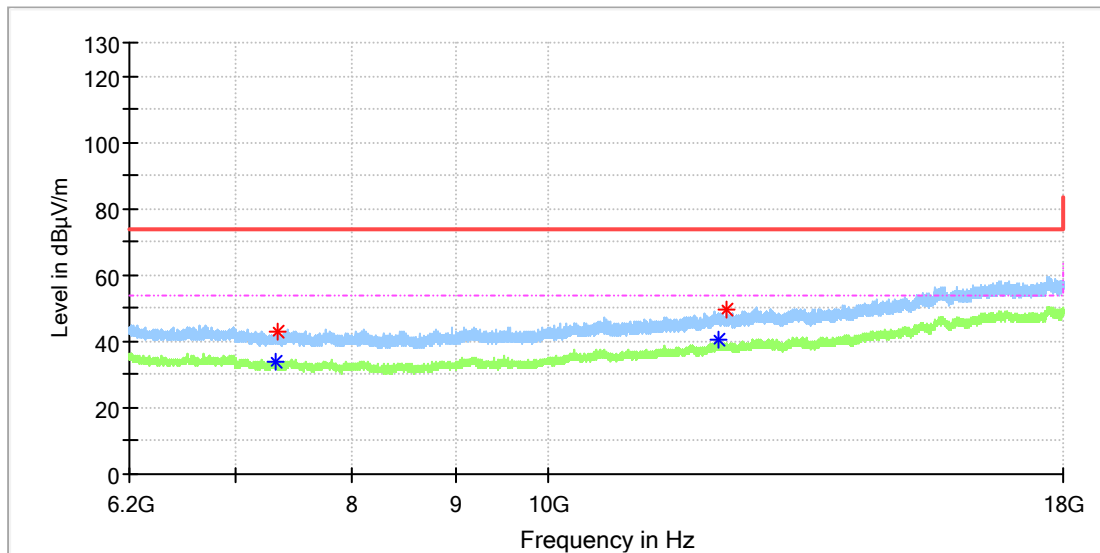
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4899.500000	---	39.46	54.00	14.54	150.0	V	269.0	11.8
4900.500000	50.55	---	74.00	23.45	150.0	V	20.0	11.8

Final Result

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

EUT Information

EUT Name: Lawn Mowing Robot
Model: MPB14
Test Mode: BLE 1M_Mid channel
Order No/Sample No: 168459797/A003634855-001
Test Voltage: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

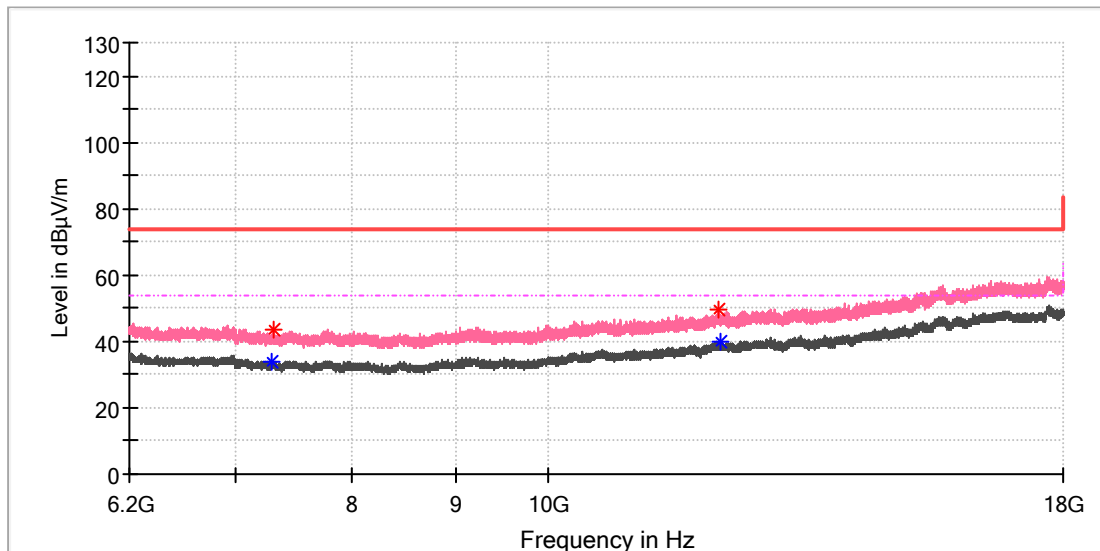
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7330.833333	---	33.74	54.00	20.26	150.0	H	324.0	8.1
7343.125000	43.18	---	74.00	30.82	150.0	H	0.0	8.1
12144.741667	---	40.22	54.00	13.78	150.0	H	74.0	14.4
12255.366667	49.43	---	74.00	24.57	150.0	H	324.0	14.8

Final Result

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

EUT Information

EUT Name: Lawn Mowing Robot
Model: MPB14
Test Mode: BLE 1M_Mid channel
Order No/Sample No: 168459797/A003634855-001
Test Voltage: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

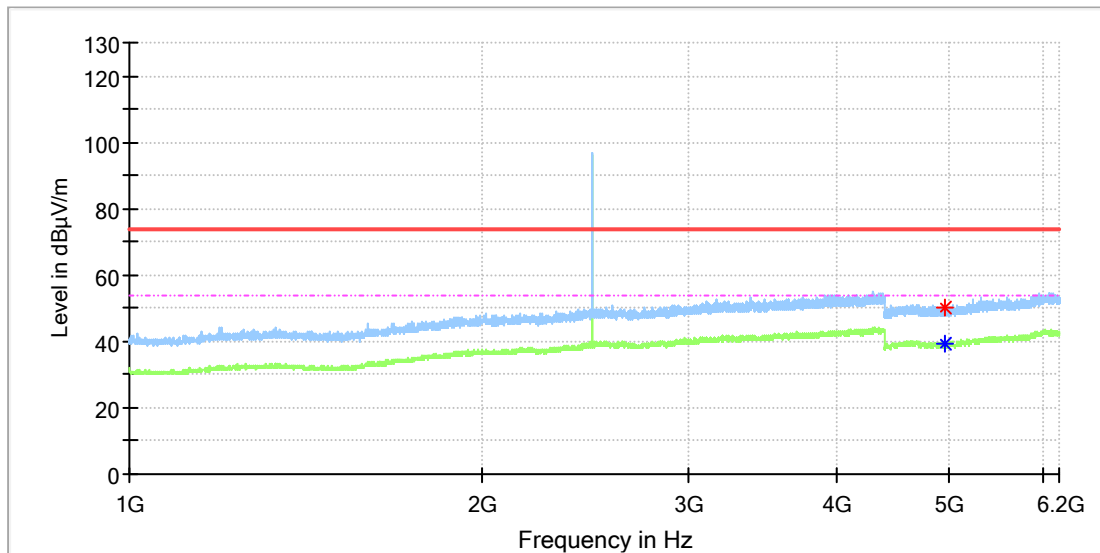
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7300.350000	---	33.91	54.00	20.09	150.0	V	145.0	8.3
7306.250000	43.73	---	74.00	30.27	150.0	V	181.0	8.3
12143.266667	49.32	---	74.00	24.68	150.0	V	0.0	14.4
12161.458333	---	40.17	54.00	13.83	150.0	V	62.0	14.5

Final Result

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

EUT Information

EUT Name: Lawn Mowing Robot
Model: MPB14
Test Mode: BLE 1M_High channel
Order No/Sample No: 168459797/A003634855-001
Test Voltage: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

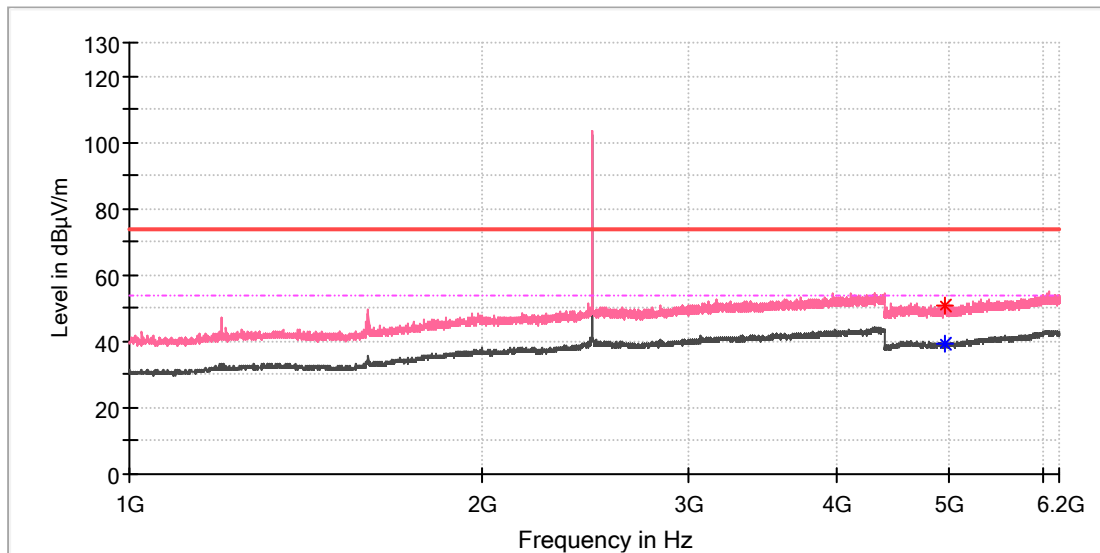
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4948.000000	---	39.50	54.00	14.50	150.0	H	208.0	11.8
4958.500000	50.30	---	74.00	23.70	150.0	H	90.0	11.8

Final Result

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

EUT Information

EUT Name: Lawn Mowing Robot
Model: MPB14
Test Mode: BLE 1M_High channel
Order No/Sample No: 168459797/A003634855-001
Test Voltage: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

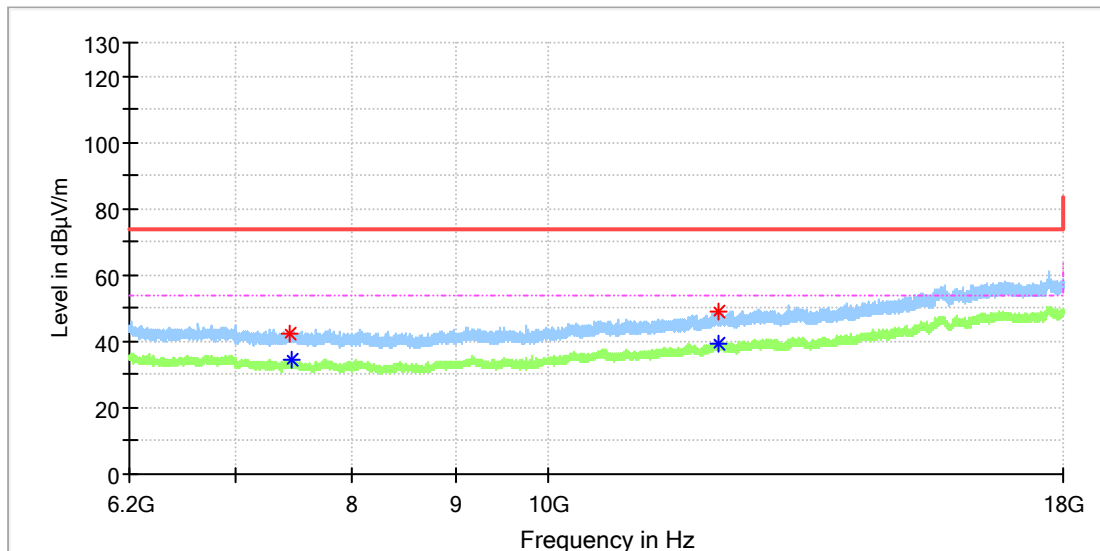
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4956.500000	---	39.51	54.00	14.49	150.0	V	133.0	11.8
4957.000000	50.62	---	74.00	23.38	150.0	V	53.0	11.8

Final Result

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

EUT Information

EUT Name: Lawn Mowing Robot
Model: MPB14
Test Mode: BLE 1M_High channel
Order No/Sample No: 168459797/A003634855-001
Test Voltage: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

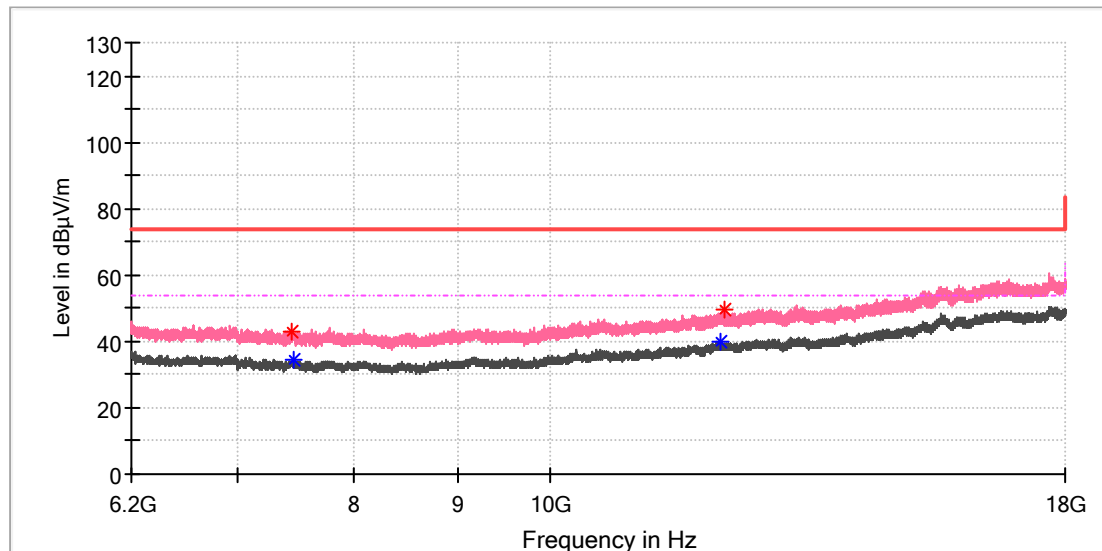
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7450.800000	42.51	---	74.00	31.49	150.0	H	154.0	8.5
7463.583333	---	34.57	54.00	19.43	150.0	H	130.0	8.6
12139.825000	49.00	---	74.00	25.00	150.0	H	95.0	14.4
12148.675000	---	39.29	54.00	14.71	150.0	H	0.0	14.4

Final Result

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

EUT Information

EUT Name: Lawn Mowing Robot
Model: MPB14
Test Mode: BLE 1M_High channel
Order No/Sample No: 168459797/A003634855-001
Test Voltage: Battery
Remark: Temp 24 Humi:50%
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)
7442.441667	43.02	---	74.00	30.98	150.0	V	293.0	8.4
7469.483333	---	34.23	54.00	19.77	150.0	V	282.0	8.6
12132.941667	---	39.70	54.00	14.30	150.0	V	124.0	14.3
12193.908333	49.40	---	74.00	24.60	150.0	V	209.0	14.6

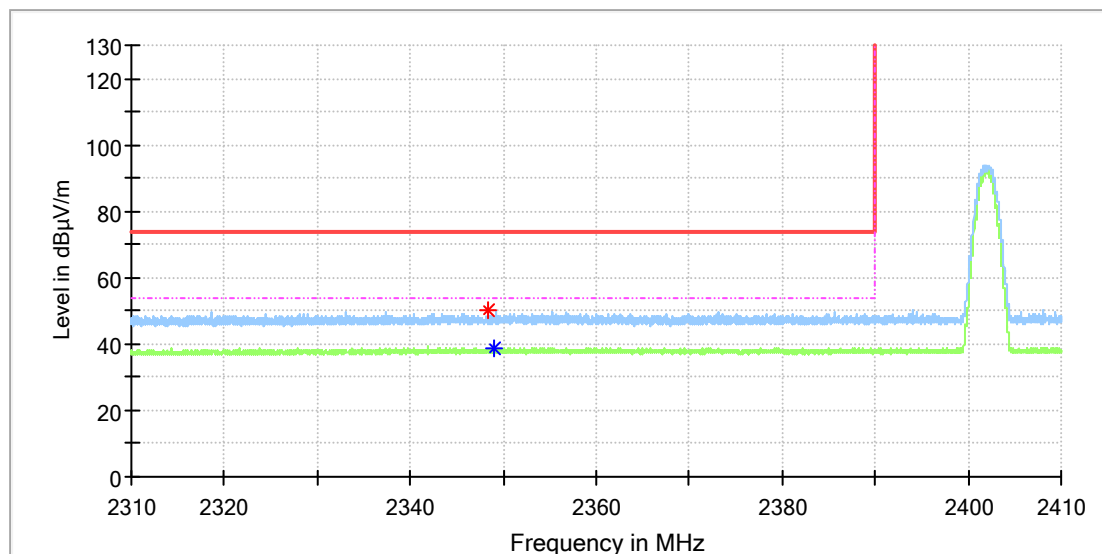
Final Result

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

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

EUT Information

EUT Name:	Lawn Mowing Robot
Model:	MPB14
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168459797/A003634855-001
Test Voltage:	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

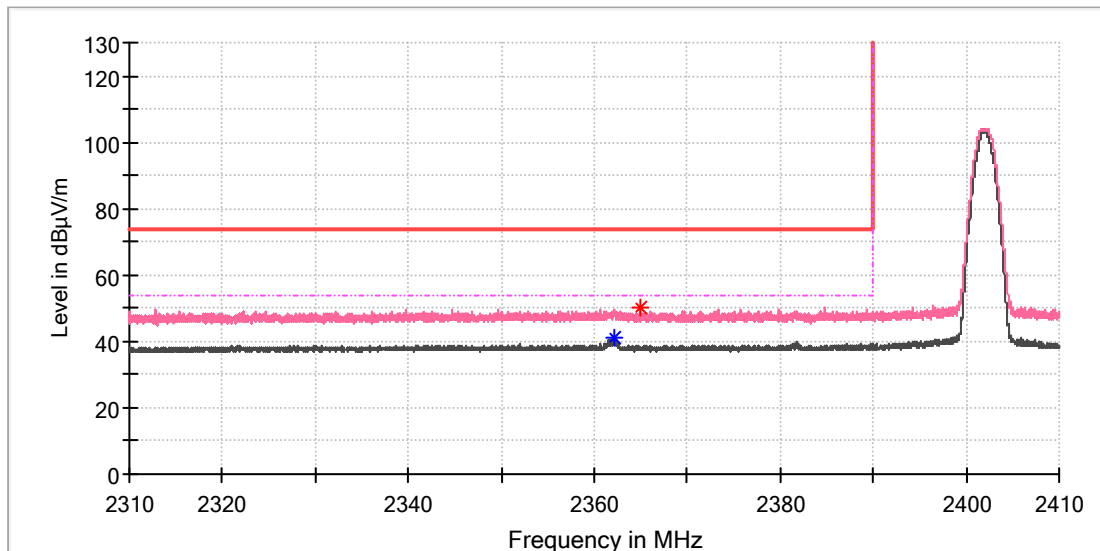
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2348.382353	50.32	---	74.00	23.68	150.0	H	95.0	6.9
2349.044118	---	38.69	54.00	15.31	150.0	H	61.0	6.9

Final_Result

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

EUT Information

EUT Name: Lawn Mowing Robot
Model: MPB14
Test Mode: BLE 1M_Low channel
Order No/Sample No: 168459797/A003634855-001
Test Voltage: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

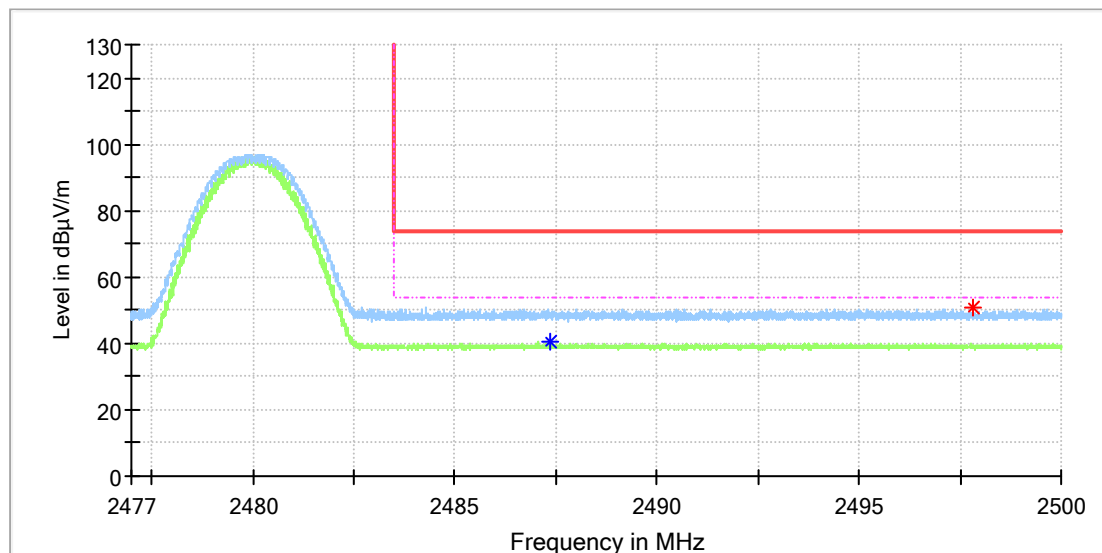
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2362.191177	---	40.91	54.00	13.09	150.0	V	291.0	6.9
2364.852941	49.91	---	74.00	24.09	150.0	V	285.0	6.9

Final Result

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

EUT Information

EUT Name: Lawn Mowing Robot
Model: MPB14
Test Mode: BLE 1M_High channel
Order No/Sample No: 168459797/A003634855-001
Test Voltage: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

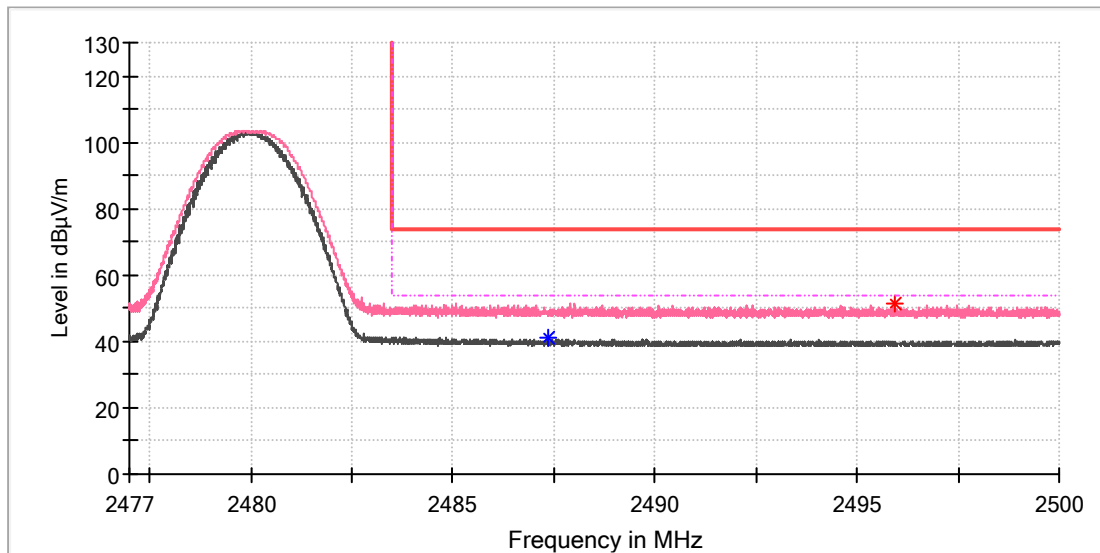
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2487.369118	---	40.34	54.00	13.66	150.0	H	332.0	7.4
2497.829412	51.08	---	74.00	22.92	150.0	H	64.0	7.4

Final Result

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

EUT Information

EUT Name: Lawn Mowing Robot
Model: MPB14
Test Mode: BLE 1M_High channel
Order No/Sample No: 168459797/A003634855-001
Test Voltage: Battery
Remark: Temp 24 Humi:50%
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)
2487.377941	---	40.98	54.00	13.02	150.0	V	45.0	7.4
2495.950000	51.19	---	74.00	22.81	150.0	V	336.0	7.4

Final Result

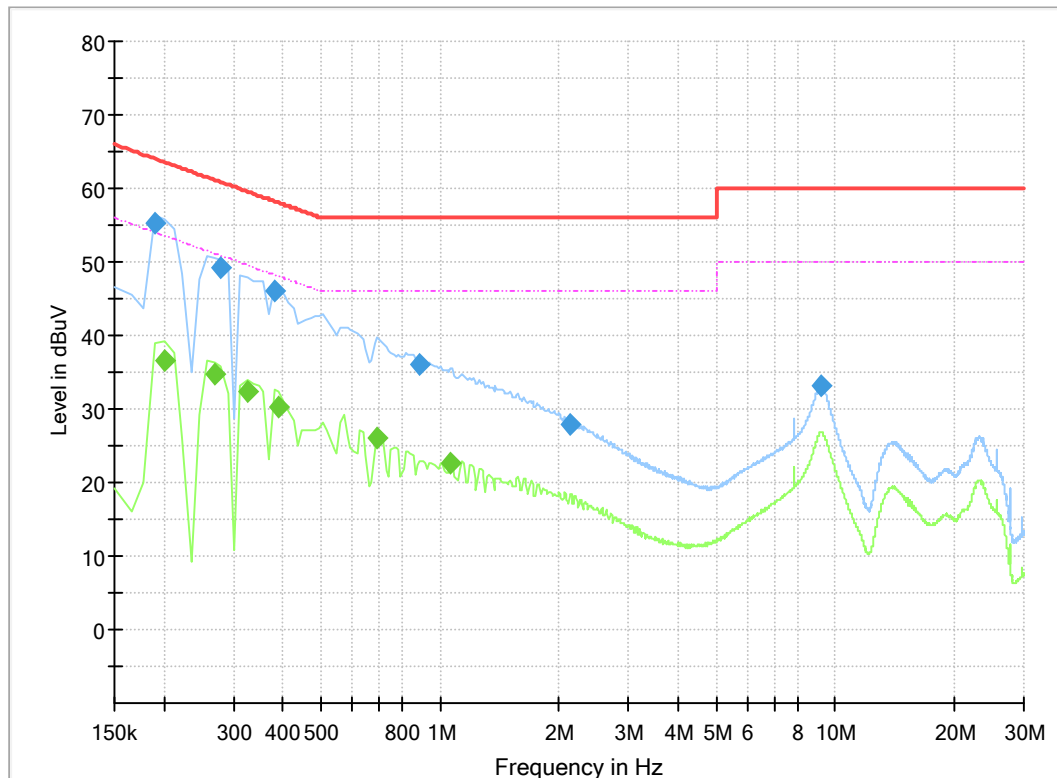
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

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

Common Information

EUT Name:	Lawn Mowing Robot
Order Number:	168459797
Model:	MPB14
Test Mode:	Charging by Base with Wireless communicating
Test Voltage:	AC 120V/60Hz
Test Standard:	FCC Part 15
Test By:/Review By:	Junhua Sun/ Gary Chen
Tem./Hum./Pressure:	25.0°C/51.2%/101kPa
Remark:	SR1

Full Spectrum



Final Result QPK

Frequency (MHz)	QuasiPeak (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Comment
0.189375	55.27	64.06	8.79	1000.0	9.000	L1	10.4	
0.279375	49.27	60.83	11.57	1000.0	9.000	L1	10.4	
0.380625	46.02	58.27	12.25	1000.0	9.000	L1	10.5	
0.886875	35.96	56.00	20.04	1000.0	9.000	L1	10.7	
2.135625	27.95	56.00	28.05	1000.0	9.000	L1	10.3	
9.200625	33.10	60.00	26.90	1000.0	9.000	L1	11.0	

Final Result CAV

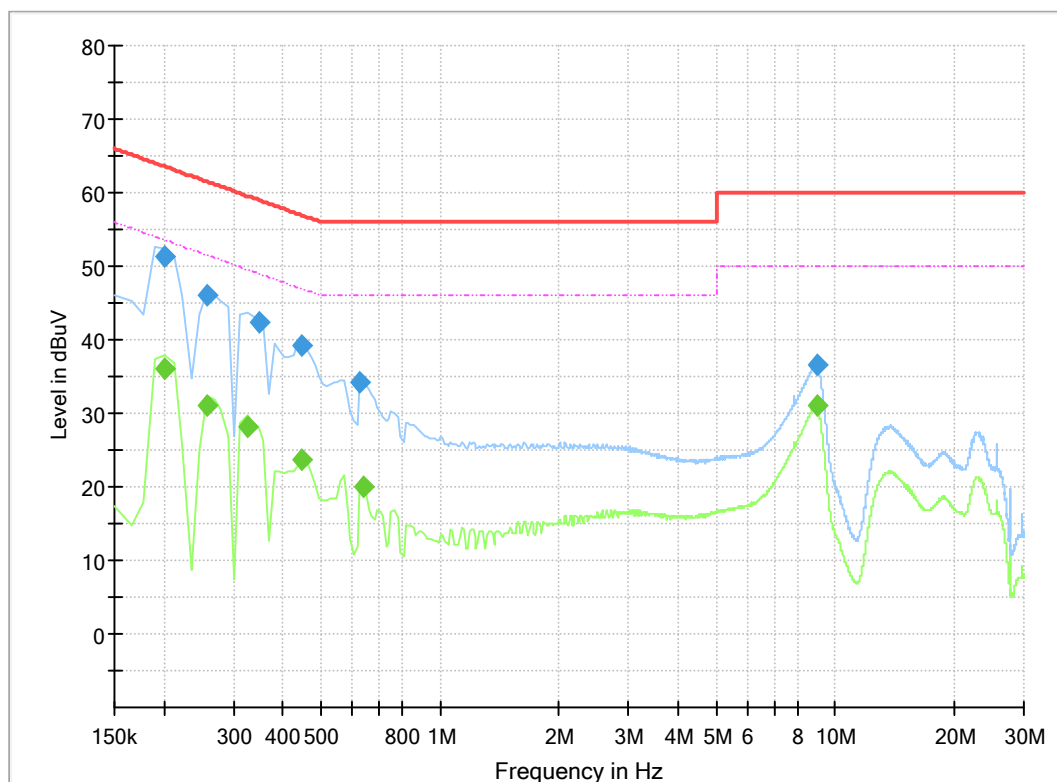
Frequency (MHz)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Comment
0.200625	36.62	53.59	16.96	1000.0	9.000	L1	10.4	

0.268125	34.65	51.18	16.53	1000.0	9.000	L1	10.4	
0.324375	32.41	49.59	17.18	1000.0	9.000	L1	10.5	
0.391875	30.31	48.02	17.71	1000.0	9.000	L1	10.5	
0.695625	26.03	46.00	19.97	1000.0	9.000	L1	10.4	
1.066875	22.68	46.00	23.32	1000.0	9.000	L1	10.9	

Common Information

EUT Name:	Lawn Mowing Robot
Order Number:	168459797
Model:	MPB14
Test Mode:	Charging by Base with Wireless communicating
Test Voltage:	AC 120V/60Hz
Test Standard:	FCC Part 15B
Test By:/Review By:	Junhua Sun/ Gary Chen
Tem./Hum./Pressure:	25.0°C/51.2%/101kPa
Remark:	SR1

Full Spectrum



Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Comment
0.200625	51.26	63.59	12.33	1000.0	9.000	N	11.0	
0.256875	46.13	61.53	15.40	1000.0	9.000	N	10.8	
0.346875	42.34	59.04	16.70	1000.0	9.000	N	10.6	
0.448125	39.23	56.91	17.68	1000.0	9.000	N	10.4	
0.628125	34.30	56.00	21.70	1000.0	9.000	N	10.5	
8.964375	36.61	60.00	23.39	1000.0	9.000	N	11.1	

Final_Result_CAV

Frequency (MHz)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Comment
0.200625	36.12	53.59	17.47	1000.0	9.000	N	11.0	
0.256875	30.93	51.53	20.60	1000.0	9.000	N	10.8	
0.324375	28.17	49.59	21.42	1000.0	9.000	N	10.6	
0.448125	23.63	46.91	23.28	1000.0	9.000	N	10.4	
0.639375	19.88	46.00	26.12	1000.0	9.000	N	10.5	
8.953125	31.09	50.00	18.91	1000.0	9.000	N	11.1	