

Appendix A: Test Results

APPENDIX A: TEST RESULTS	1
APPENDIX A.1: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS	2
30MHz - 1GHz (Worst case)	2
1GHz - 18GHz	4
APPENDIX A.2: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS	8

Appendix A.1: Test Results of Radiated Spurious Emissions

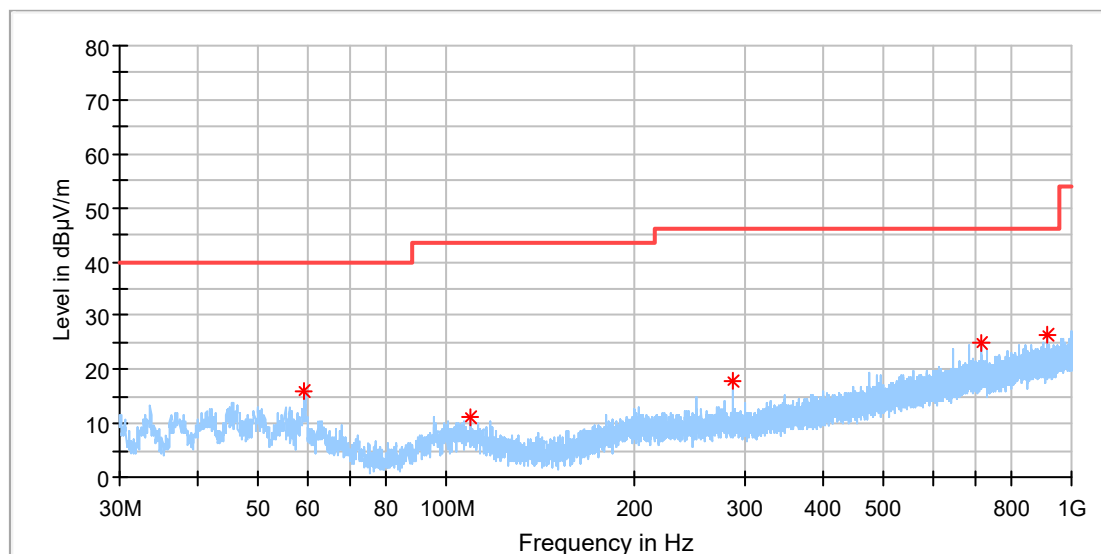
Note:

- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

30MHz - 1GHz (Worst case)

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	QR2PSL
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168467414/A003672389-002
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

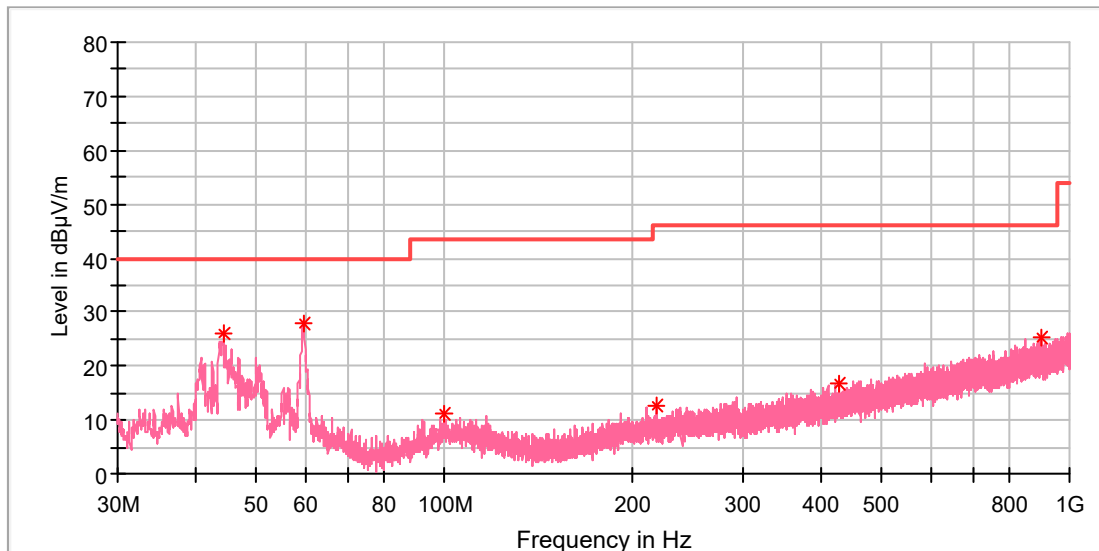
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
59.361154	15.87	40.00	24.13	100.0	H	235.0	-19.2
108.868462	11.07	43.50	32.43	100.0	H	169.0	-19.3
288.020000	17.86	46.00	28.14	100.0	H	28.0	-16.9
715.528846	24.81	46.00	21.19	100.0	H	276.0	-8.2
912.476154	26.55	46.00	19.45	100.0	H	0.0	-5.3

Final Result

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

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	QR2PSL
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168467414/A003672389-002
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
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)
44.363462	26.01	40.00	13.99	100.0	V	65.0	-19.3
59.398462	27.86	40.00	12.14	100.0	V	264.0	-19.2
99.802692	11.11	43.50	32.39	100.0	V	291.0	-19.3
218.553077	12.81	46.00	33.19	100.0	V	2.0	-18.9
427.662692	16.58	46.00	29.42	100.0	V	131.0	-13.6
900.313846	25.31	46.00	20.69	100.0	V	122.0	-5.4

Final_Result

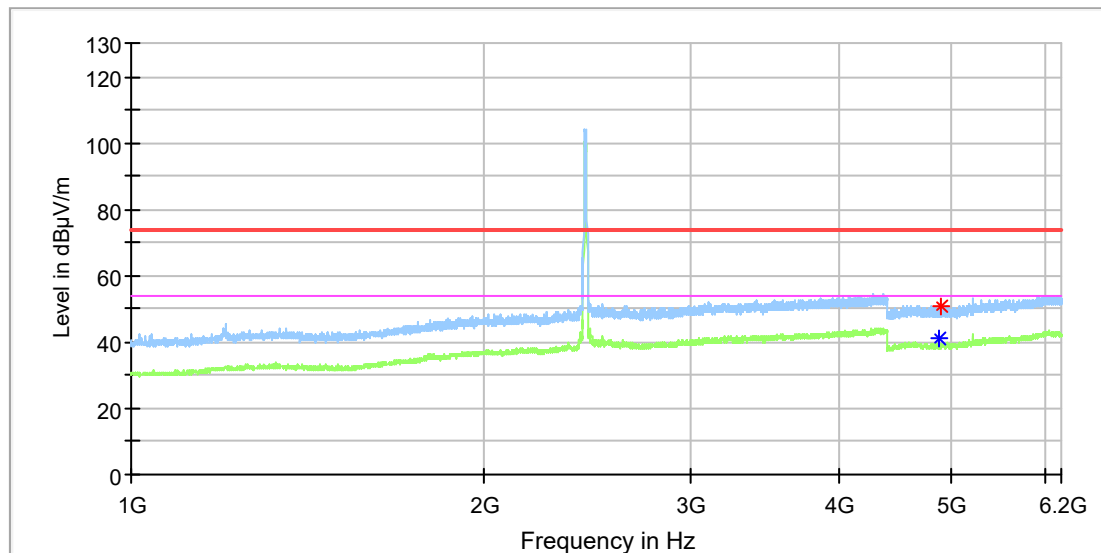
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

1GHz - 18GHz

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

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	QR2PSL
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168467414/A003672389-002
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

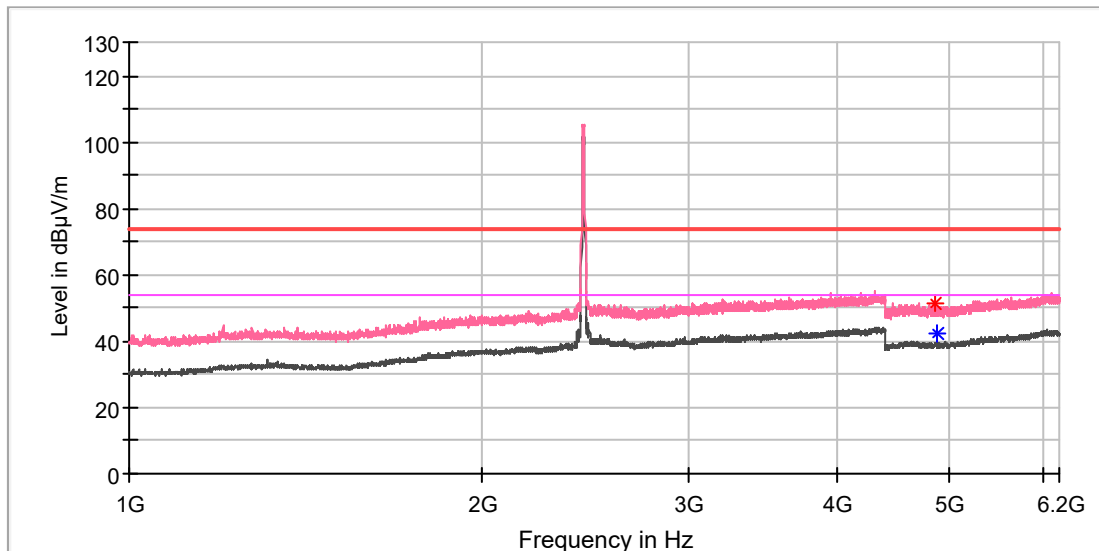
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4874.000000	---	41.36	54.00	12.64	150.0	H	196.0	11.8
4895.000000	50.83	---	74.00	23.17	150.0	H	277.0	11.8

Final_Result

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

EUT Information

EUT Name: Robotic Vacuum Cleaner
Model: QR2PSL
Test Mode: WIFI 2.4G_11b_Ch6
Order No/Sample No: 168467414/A003672389-002
Test Voltage: Battery
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

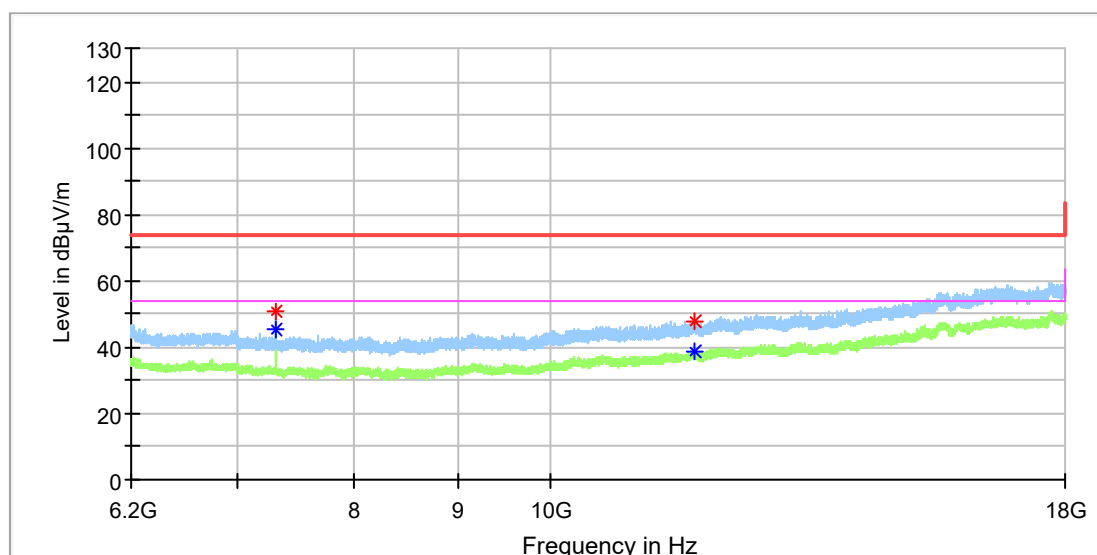
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4867.500000	51.12	---	74.00	22.88	150.0	V	96.0	11.8
4874.000000	---	42.60	54.00	11.40	150.0	V	143.0	11.8

Final_Result

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

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	QR2PSL
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168467414/A003672389-002
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

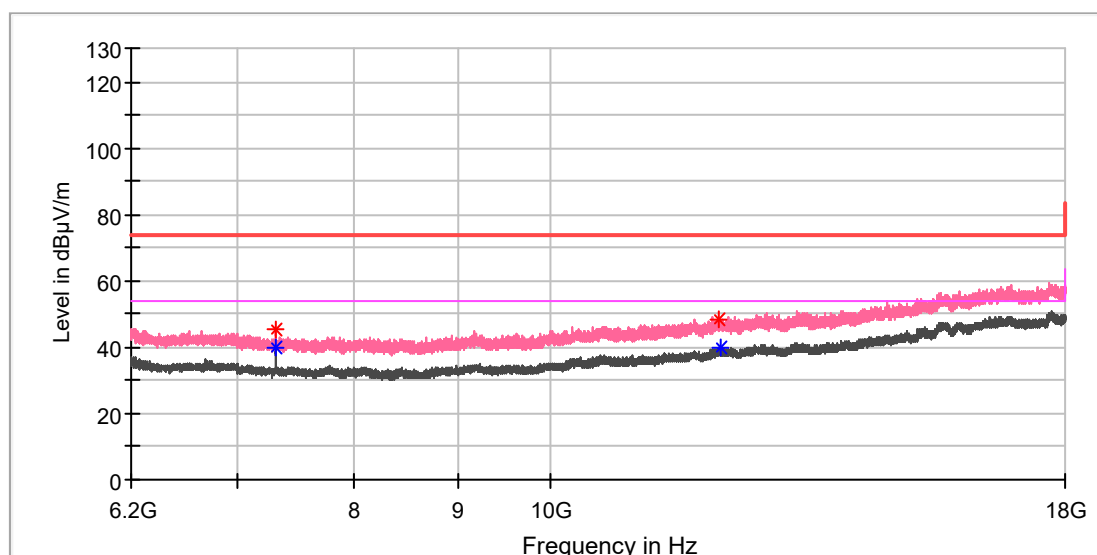
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7309.200000	50.83	---	74.00	23.17	150.0	H	0.0	8.2
7309.691667	---	45.57	54.00	8.43	150.0	H	0.0	8.2
11780.416667	47.95	---	74.00	26.05	150.0	H	265.0	13.4
11796.641667	---	38.81	54.00	15.19	150.0	H	326.0	13.4

Final_Result

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

EUT Information

EUT Name: Robotic Vacuum Cleaner
Model: QR2PSL
Test Mode: WIFI 2.4G_11b_Ch6
Order No/Sample No: 168467414/A003672389-002
Test Voltage: Battery
Remark: Temp 23 Humi:53%
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)
7311.166667	45.53	---	74.00	28.47	150.0	V	332.0	8.2
7312.150000	---	40.10	54.00	13.90	150.0	V	308.0	8.2
12117.700000	48.54	---	74.00	25.46	150.0	V	260.0	14.2
12143.266667	---	39.85	54.00	14.15	150.0	V	165.0	14.4

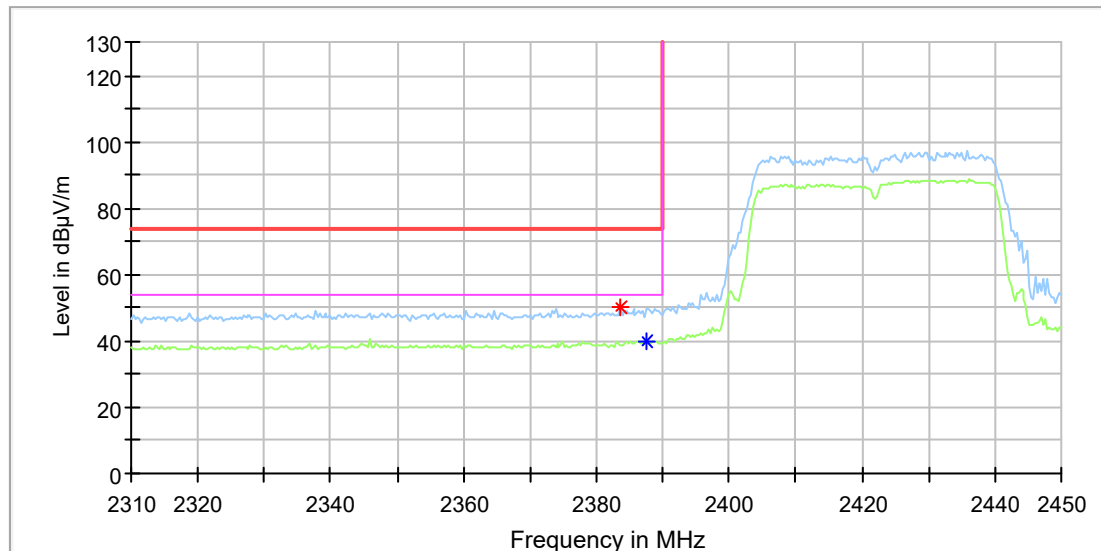
Final_Result

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

Appendix A.2: Test Results of Radiated Emissions in Restricted Bands

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	QR2PSL
Test Mode:	WIFI 2.4G_11n40_Ch3
Order No/Sample No:	168467414/A003672389-002
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

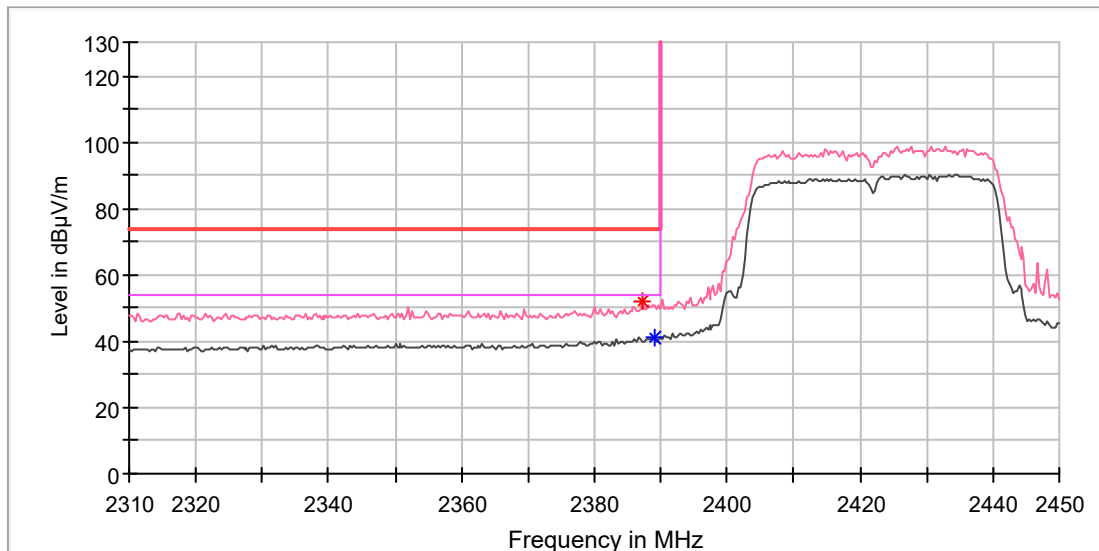
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2383.529412	50.02	---	74.00	23.98	150.0	H	312.0	7.0
2387.647059	---	40.17	54.00	13.83	150.0	H	165.0	7.0

Final Result

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

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	QR2PSL
Test Mode:	WIFI 2.4G_11n40_Ch3
Order No/Sample No:	168467414/A003672389-002
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

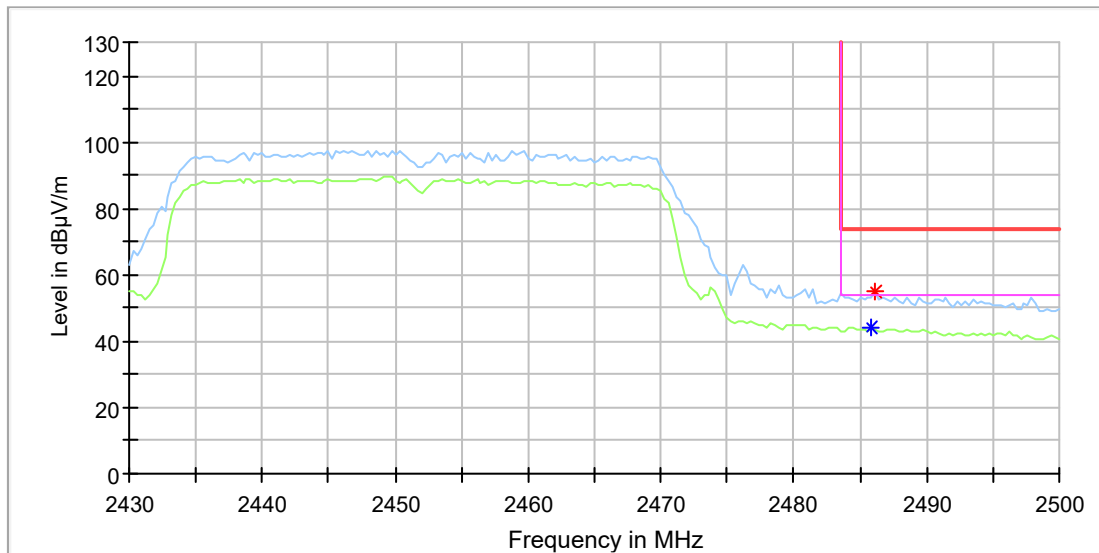
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2387.352941	51.94	---	74.00	22.06	150.0	V	62.0	7.0
2389.117647	---	41.40	54.00	12.60	150.0	V	288.0	7.0

Final_Result

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

EUT Information

EUT Name: Robotic Vacuum Cleaner
Model: QR2PSL
Test Mode: WIFI 2.4G_11n40_Ch9
Order No/Sample No: 168467414/A003672389-002
Test Voltage: Battery
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

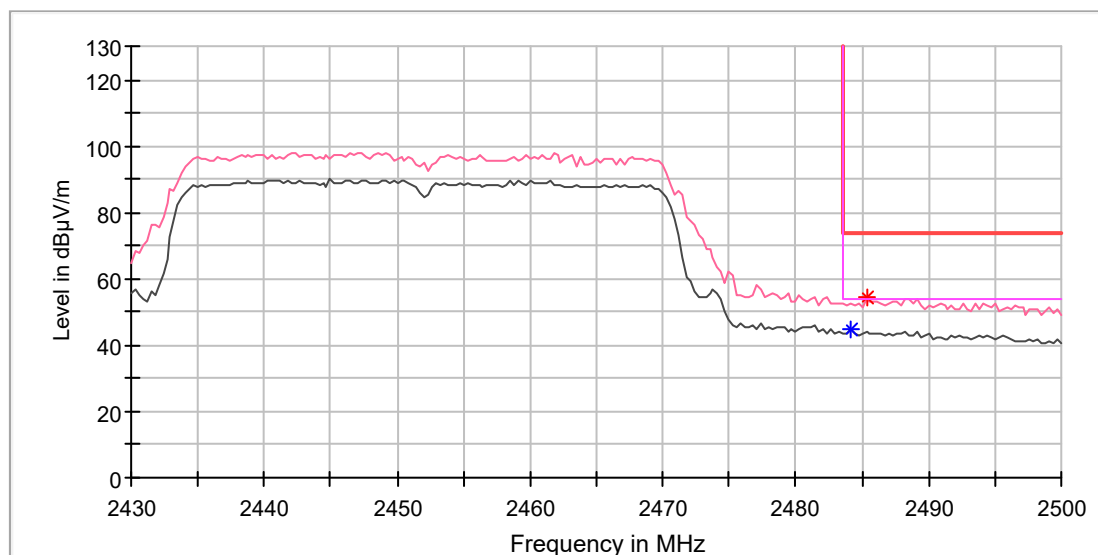
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2485.882353	---	44.17	54.00	9.83	150.0	H	167.0	7.4
2486.176471	54.80	---	74.00	19.20	150.0	H	167.0	7.4

Final_Result

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

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	QR2PSL
Test Mode:	WIFI 2.4G_11n40_Ch9
Order No/Sample No:	168467414/A003672389-002
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.117647	---	44.69	54.00	9.31	150.0	V	168.0	7.4
2485.294118	54.49	---	74.00	19.51	150.0	V	60.0	7.4

Final_Result

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