Appendix B: Test Results

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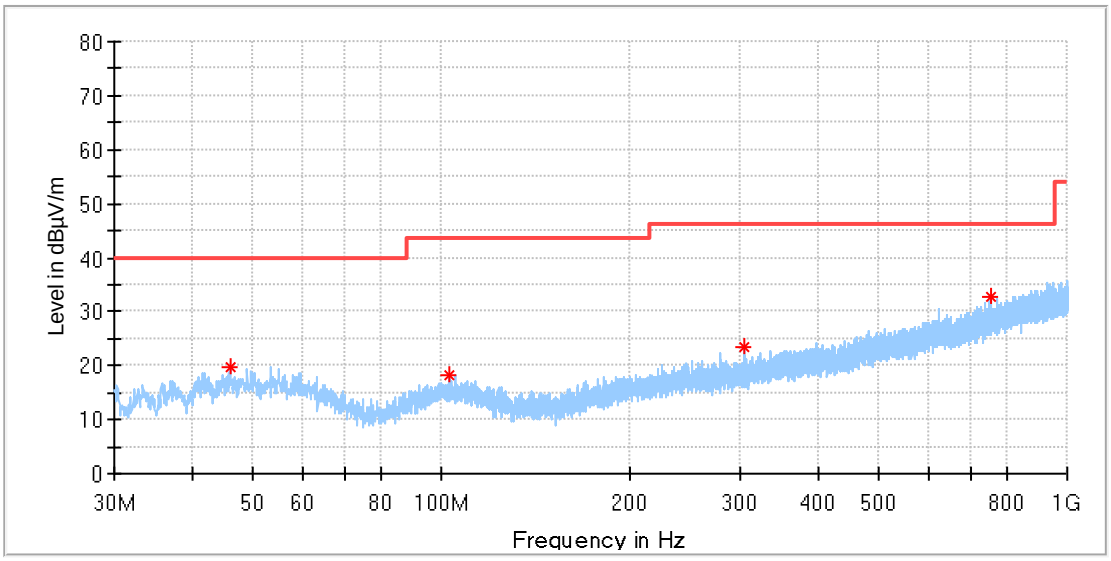
Note: Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

Appendix B.1: Test Results of Radiated Spurious Emissions

30MHz - 1GHz (Worst case)

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	Q380RR
Test Mode:	WiFi 2.4G_11b_Ch1
Order No/Sample No:	168364227/A003231951-001
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

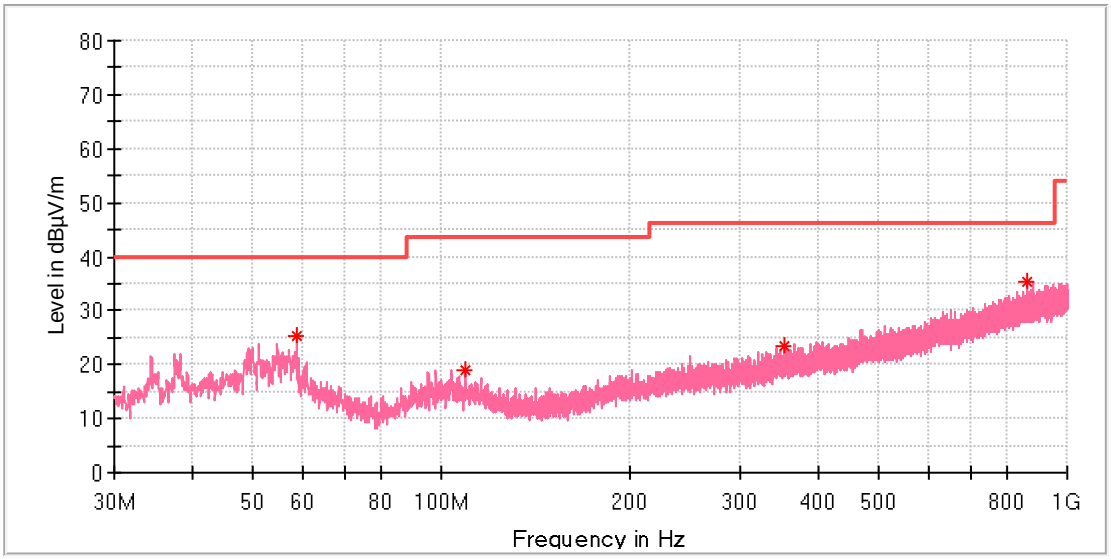
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
46.005000	19.65	40.00	20.35	100.0	H	68.0	-18.6
103.089500	18.35	43.50	25.15	100.0	H	257.0	-18.8
304.025000	23.42	46.00	22.58	100.0	H	347.0	-16.2
756.287500	32.86	46.00	13.14	100.0	H	32.0	-7.1

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:	Q380RR
Test Mode:	WiFi 2.4G_11b_Ch1
Order No/Sample No:	168364227/A003231951-001
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
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)
58.663500	25.44	40.00	14.56	100.0	V	56.0	-18.8
109.346000	18.95	43.50	24.55	100.0	V	354.0	-19.0
352.573500	23.43	46.00	22.57	100.0	V	270.0	-14.7
859.980500	35.46	46.00	10.54	100.0	V	1.0	-5.3

Final_Result

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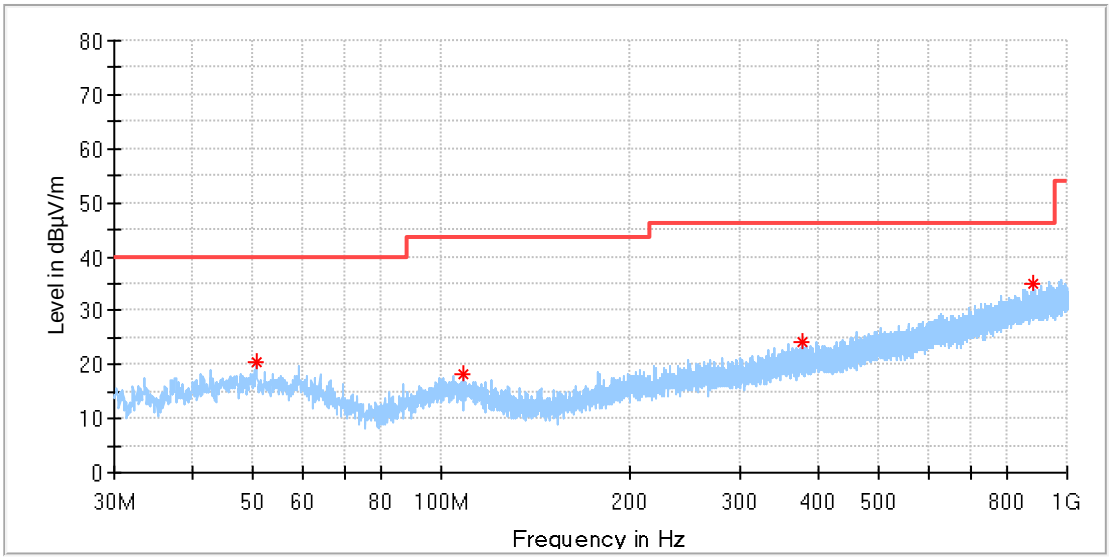
EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	Q380RR
Test Mode:	WiFi 2.4G_11b_Ch11
Order No/Sample No:	168364227/A003231951-001
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

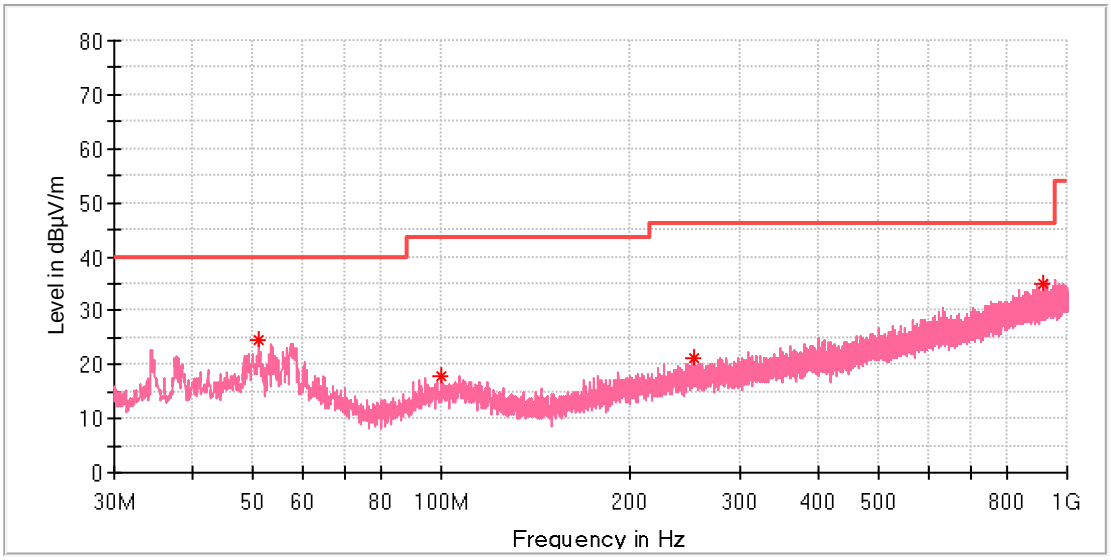
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
50.515500	20.53	40.00	19.47	100.0	H	68.0	-18.3
108.521500	18.14	43.50	25.36	100.0	H	32.0	-19.0
378.521000	24.14	46.00	21.86	100.0	H	89.0	-14.3
883.163500	35.04	46.00	10.96	100.0	H	245.0	-5.1

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:	Q380RR
Test Mode:	WiFi 2.4G_11b_Ch11
Order No/Sample No:	168364227/A003231951-001
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
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)
51.000500	24.47	40.00	15.53	100.0	V	272.0	-18.3
99.743000	17.71	43.50	25.79	100.0	V	160.0	-19.0
253.003000	21.06	46.00	24.94	100.0	V	0.0	-17.3
914.397500	35.15	46.00	10.85	100.0	V	30.0	-4.9

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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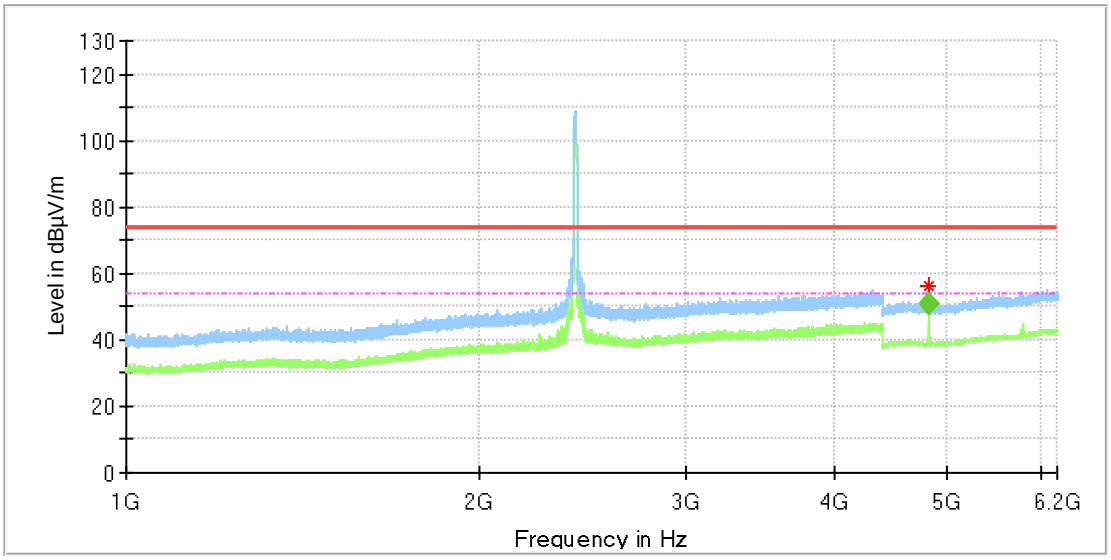
1GHz - 18GHz

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

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	Q380RR
Test Mode:	WiFi 2.4G_11b_Ch1
Order No/Sample No:	168364227/A003231951-001
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

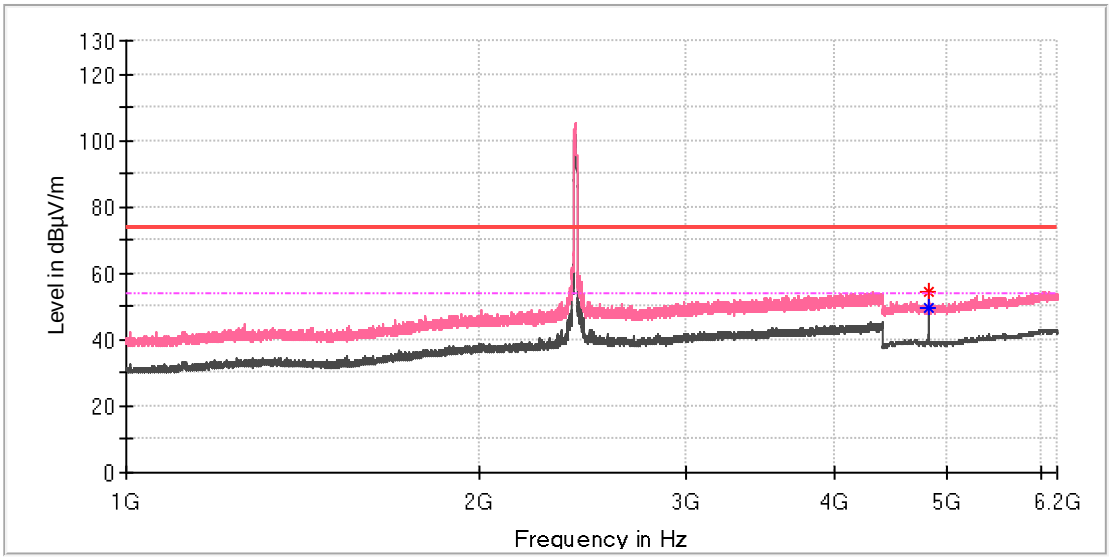
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4823.500000	56.50	---	74.00	17.50	100.0	H	130.0	11.8

Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4823.975000	50.62	54.00	3.38	100.0	H	114.0	11.8

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	Q380RR
Test Mode:	WiFi 2.4G_11b_Ch1
Order No/Sample No:	168364227/A003231951-001
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

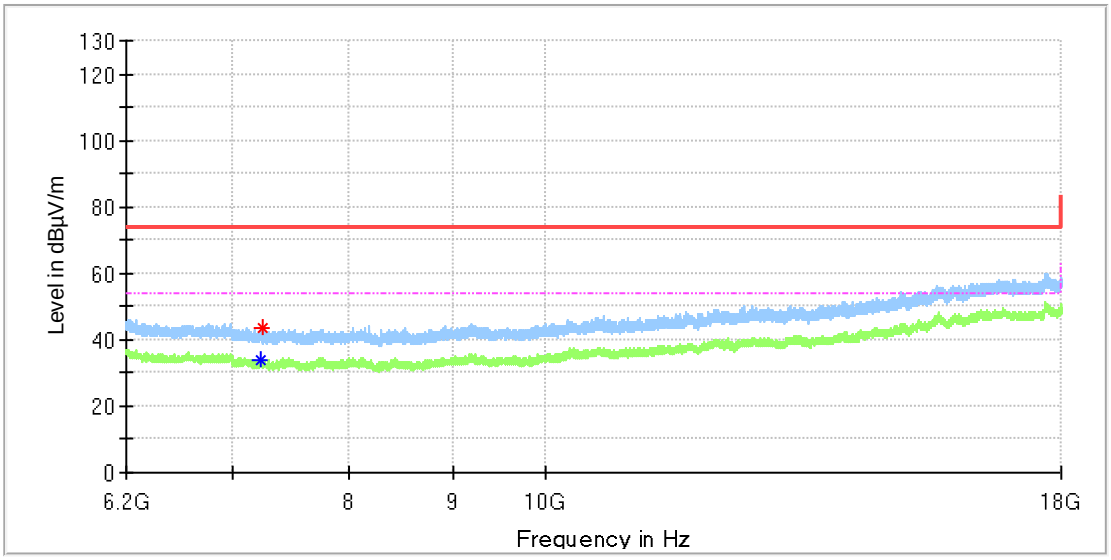
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4824.000000	---	49.67	54.00	4.33	100.0	V	291.0	11.8
4824.000000	54.68	---	74.00	19.32	100.0	V	291.0	11.8

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:	Q380RR
Test Mode:	WiFi 2.4G_11b_Ch1
Order No/Sample No:	168364227/A003231951-001
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
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)
7233.483333	---	34.10	54.00	19.90	100.0	H	324.0	8.6
7235.941667	43.27	---	74.00	30.73	100.0	H	249.0	8.6

Final_Result

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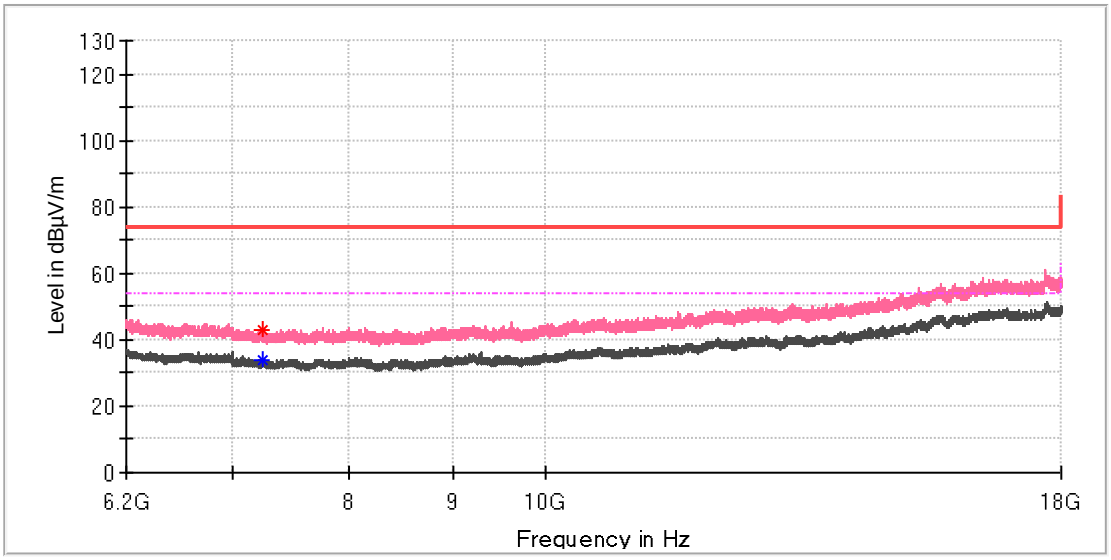
EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	Q380RR
Test Mode:	WiFi 2.4G_11b_Ch1
Order No/Sample No:	168364227/A003231951-001
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
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)
7241.841667	43.08	---	74.00	30.92	100.0	V	9.0	8.6
7248.725000	---	33.85	54.00	20.15	100.0	V	276.0	8.5

Final_Result

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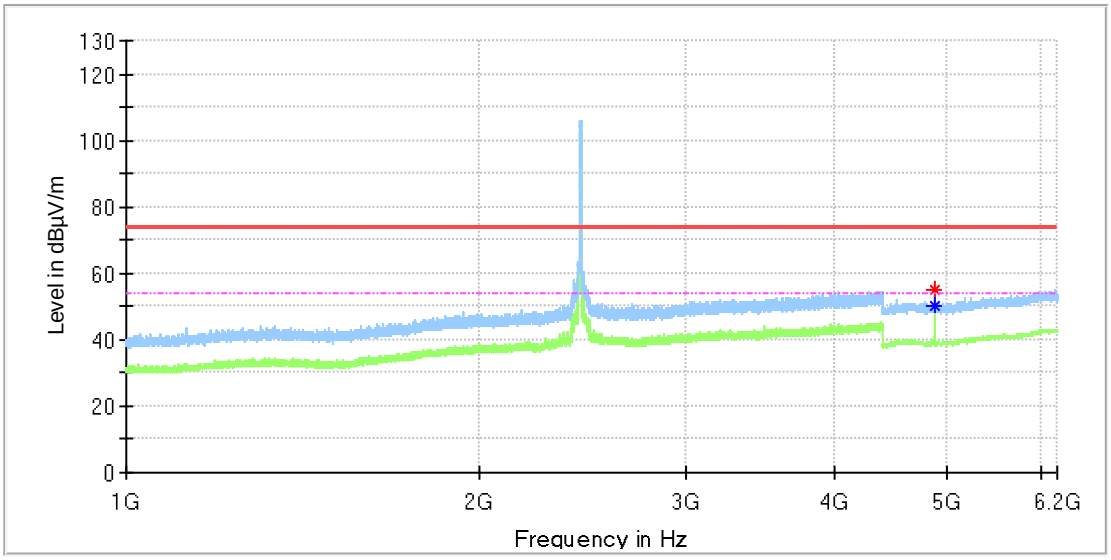
EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	Q380RR
Test Mode:	WiFi 2.4G_11b_Ch6
Order No/Sample No:	168364227/A003231951-001
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

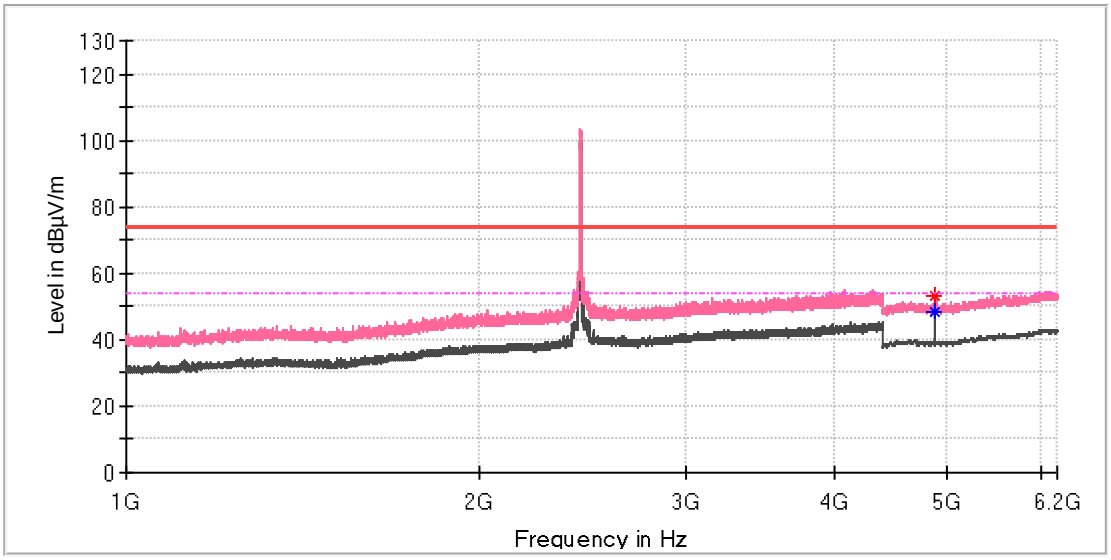
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4874.000000	---	49.92	54.00	4.08	100.0	H	106.0	11.8
4874.000000	54.78	---	74.00	19.22	100.0	H	106.0	11.8

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:	Q380RR
Test Mode:	WiFi 2.4G_11b_Ch6
Order No/Sample No:	168364227/A003231951-001
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

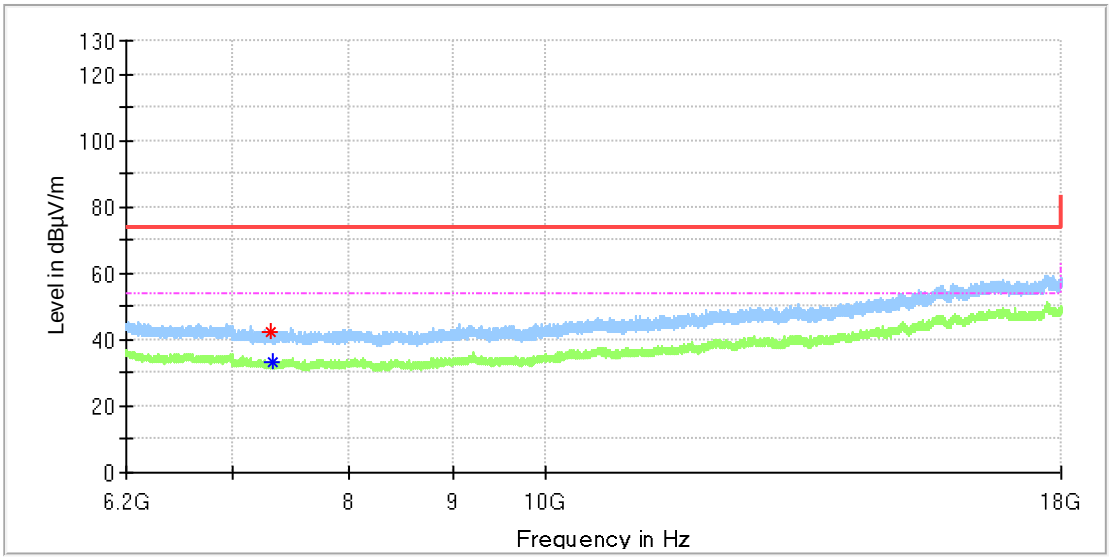
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4873.500000	53.22	---	74.00	20.78	100.0	V	291.0	11.8
4874.000000	---	48.17	54.00	5.83	100.0	V	69.0	11.8

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:	Q380RR
Test Mode:	WiFi 2.4G_11b_Ch6
Order No/Sample No:	168364227/A003231951-001
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

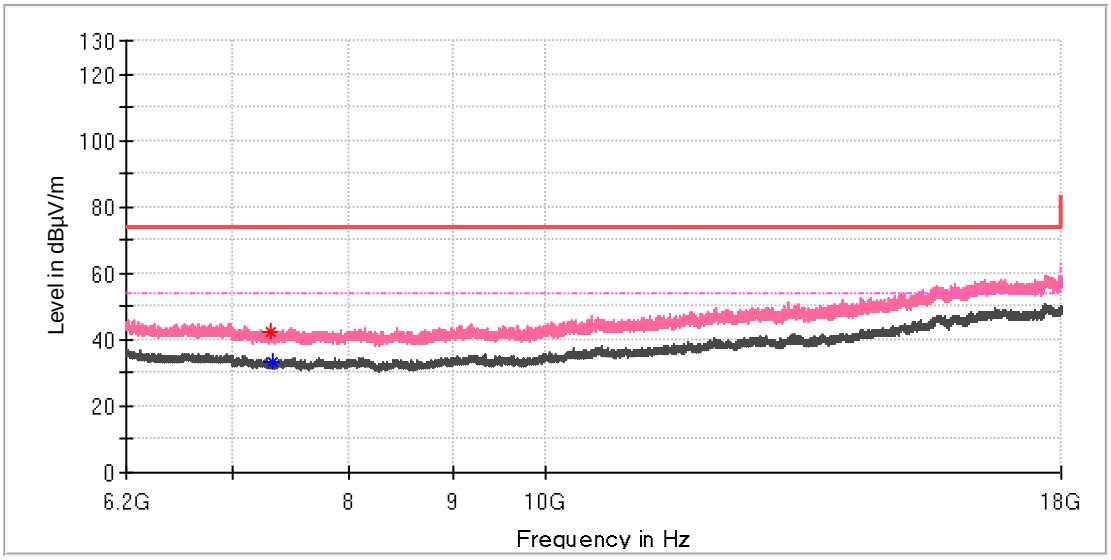
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7311.166667	42.13	---	74.00	31.87	100.0	H	280.0	8.2
7323.950000	---	33.06	54.00	20.94	100.0	H	6.0	8.2

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:	Q380RR
Test Mode:	WiFi 2.4G_11b_Ch6
Order No/Sample No:	168364227/A003231951-001
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

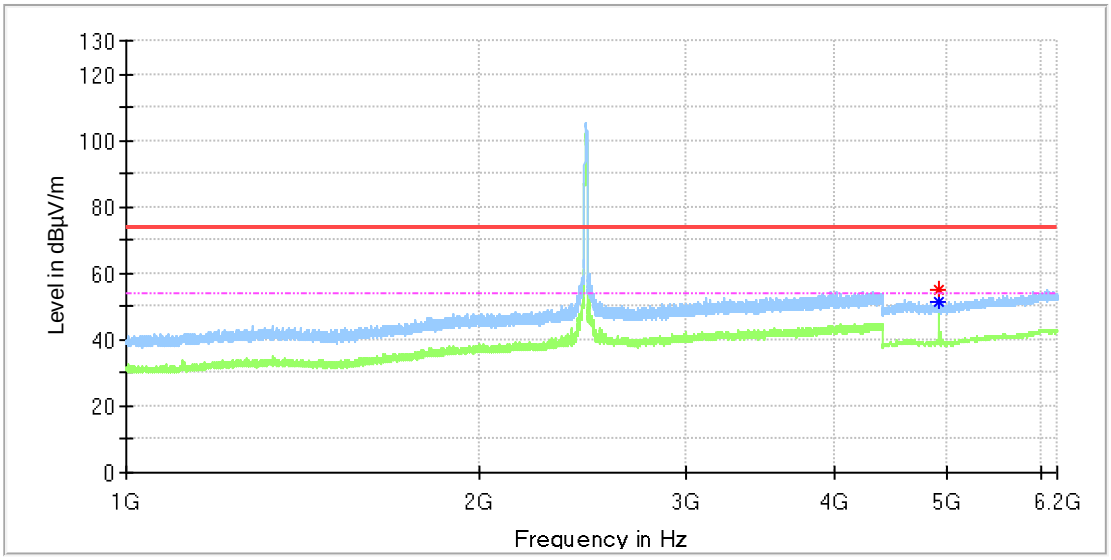
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7316.575000	42.22	---	74.00	31.78	100.0	V	130.0	8.2
7325.425000	---	33.35	54.00	20.65	100.0	V	356.0	8.2

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:	Q380RR
Test Mode:	WiFi 2.4G_11b_Ch11
Order No/Sample No:	168364227/A003231951-001
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

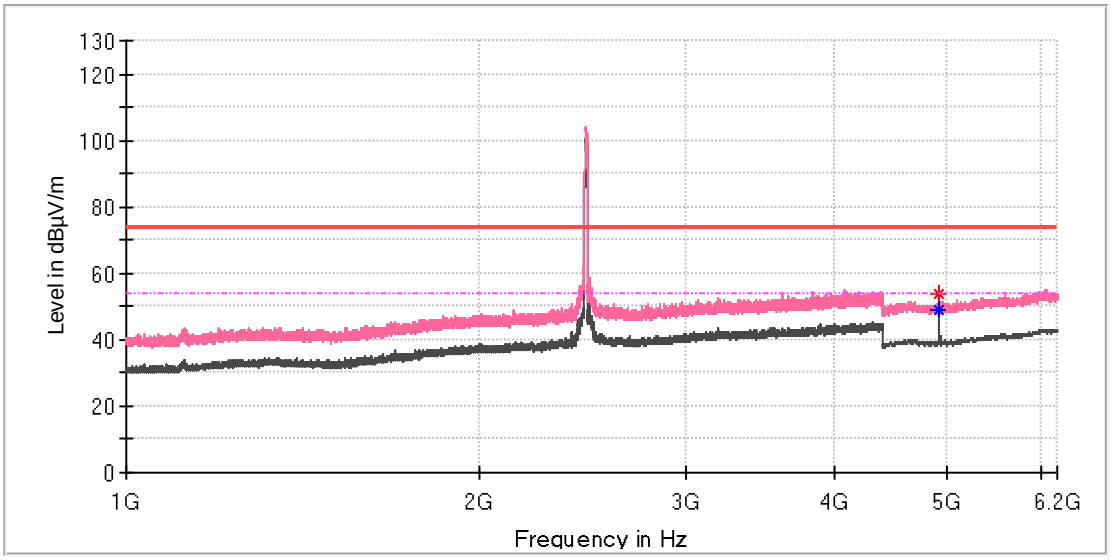
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4924.000000	---	50.92	54.00	3.08	100.0	H	313.0	11.8
4924.000000	55.07	---	74.00	18.93	100.0	H	313.0	11.8

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:	Q380RR
Test Mode:	WiFi 2.4G_11b_Ch11
Order No/Sample No:	168364227/A003231951-001
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

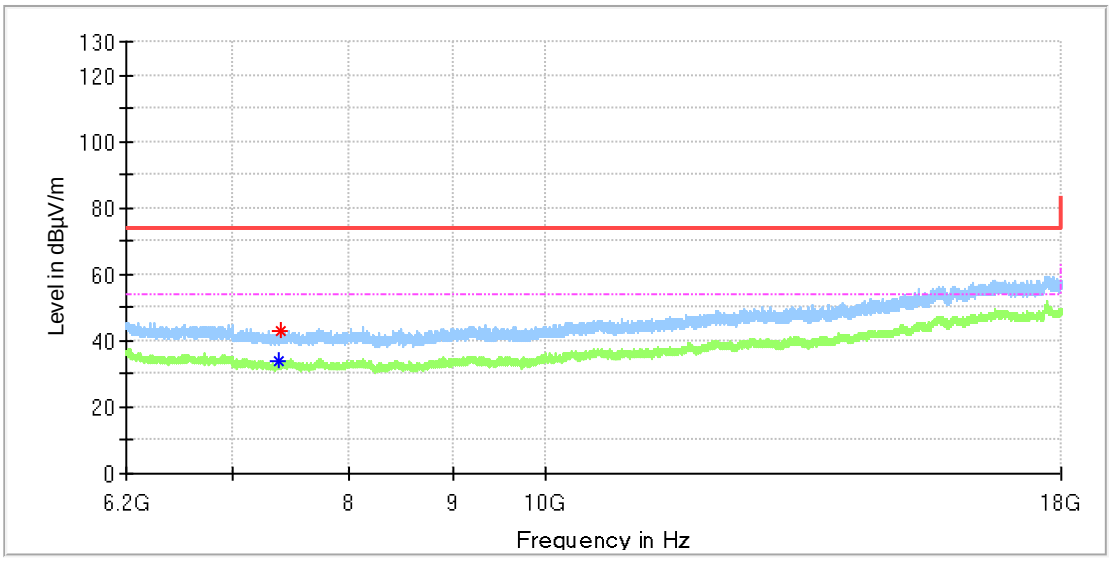
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4924.000000	53.55	---	74.00	20.45	100.0	V	286.0	11.8
4924.000000	---	49.16	54.00	4.84	100.0	V	286.0	11.8

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:	Q380RR
Test Mode:	WiFi 2.4G_11b_Ch11
Order No/Sample No:	168364227/A003231951-001
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
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)
7374.591667	---	33.97	54.00	20.03	100.0	H	224.0	8.2
7394.258333	42.82	---	74.00	31.18	100.0	H	0.0	8.3

Final_Result

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

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	Q380RR
Test Mode:	WiFi 2.4G_11b_Ch11
Order No/Sample No:	168364227/A003231951-001
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
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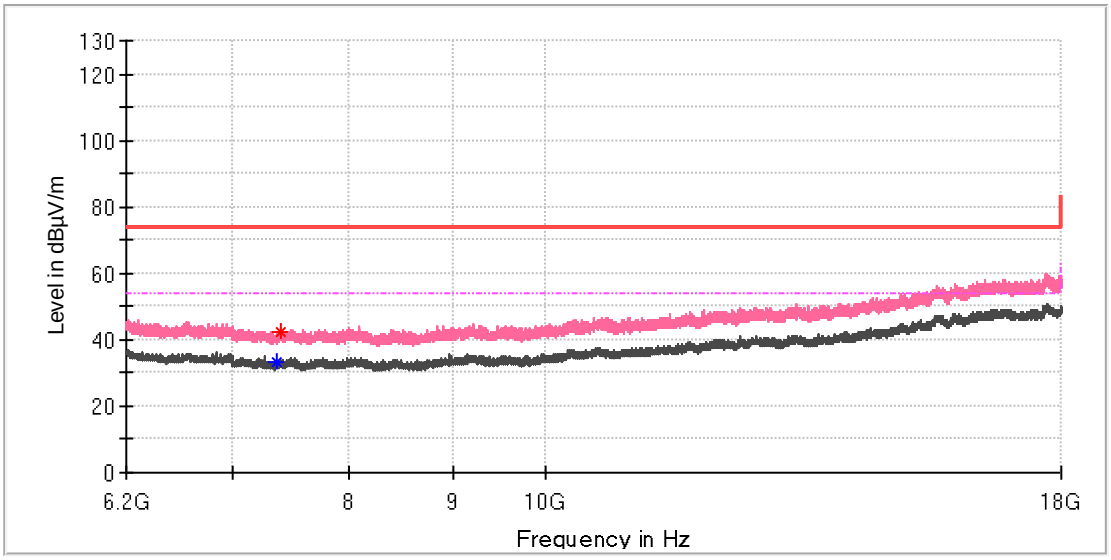


Critical_Freqs

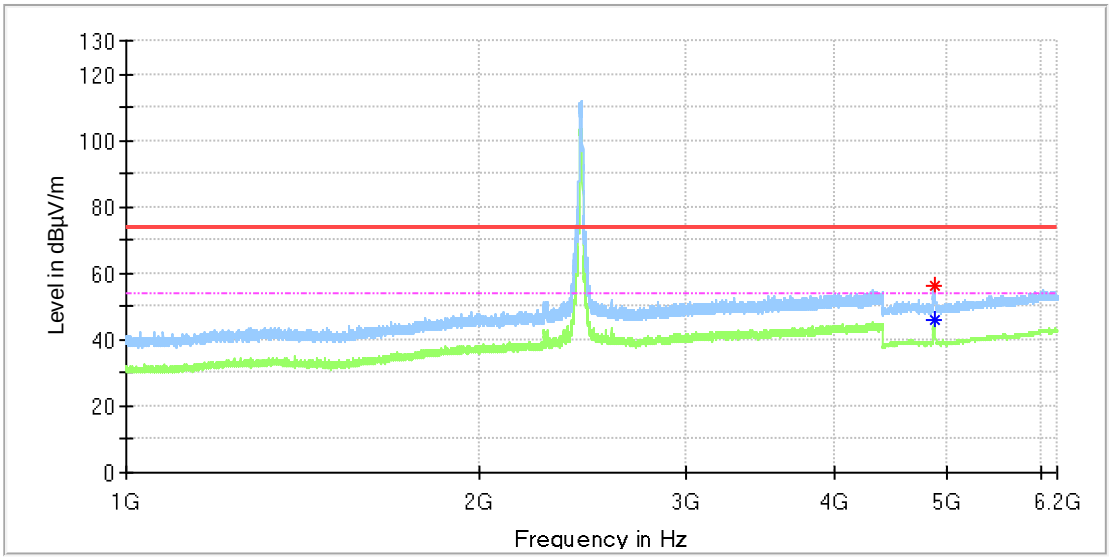
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7362.300000	---	33.38	54.00	20.62	100.0	V	265.0	8.2
7397.700000	42.39	---	74.00	31.61	100.0	V	230.0	8.3

Final_Result

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

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	Q380RR
Test Mode:	WiFi 2.4G_11g_Ch6
Order No/Sample No:	168364227/A003231951-001
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

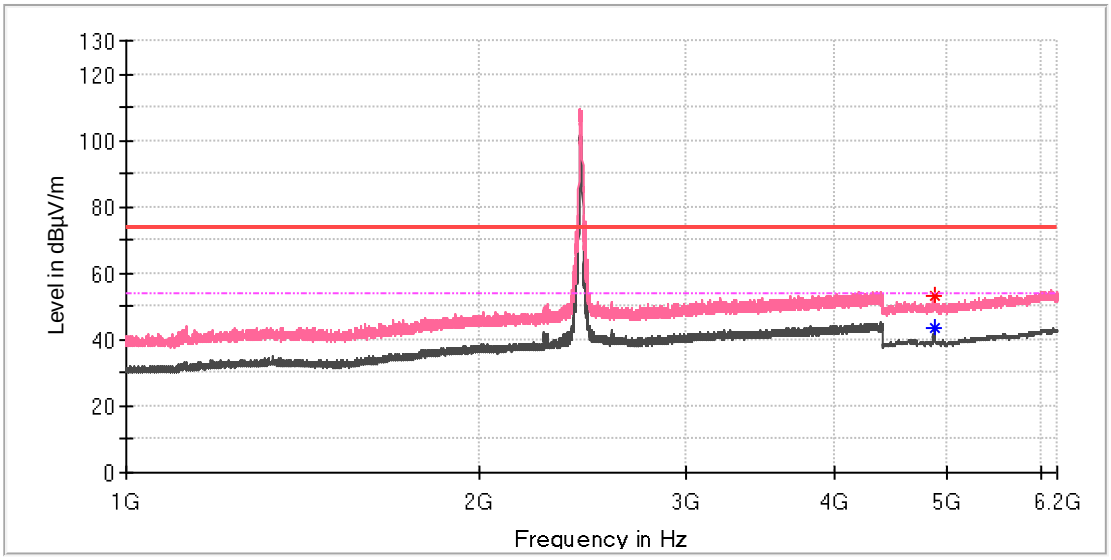
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4874.000000	---	45.68	54.00	8.32	100.0	H	125.0	11.8
4876.000000	56.50	---	74.00	17.50	100.0	H	125.0	11.8

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:	Q380RR
Test Mode:	WiFi 2.4G_11g_Ch6
Order No/Sample No:	168364227/A003231951-001
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

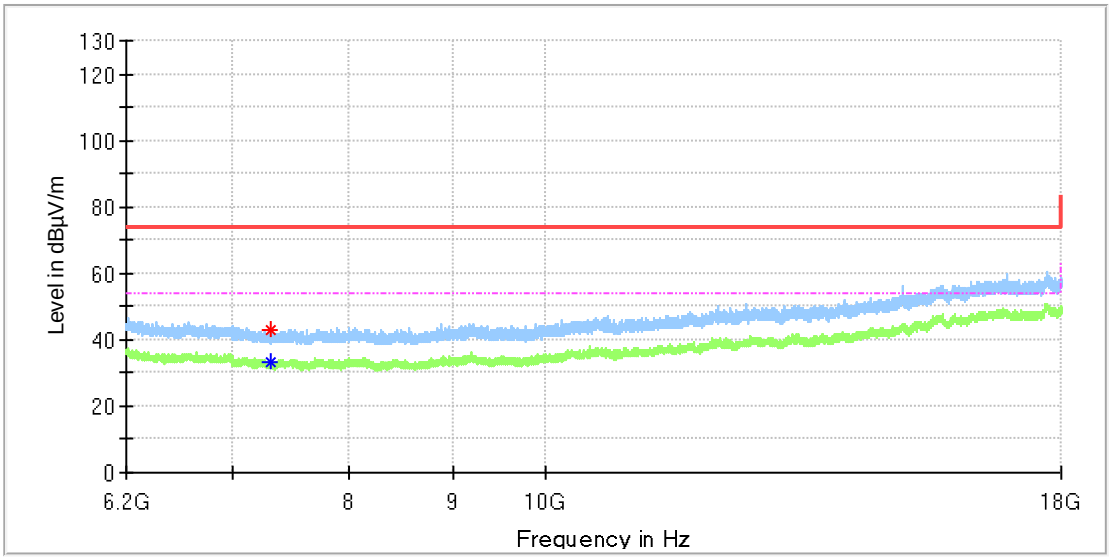
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4872.000000	---	43.37	54.00	10.63	100.0	V	75.0	11.8
4877.000000	53.48	---	74.00	20.52	100.0	V	60.0	11.8

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:	Q380RR
Test Mode:	WiFi 2.4G_11g_Ch6
Order No/Sample No:	168364227/A003231951-001
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

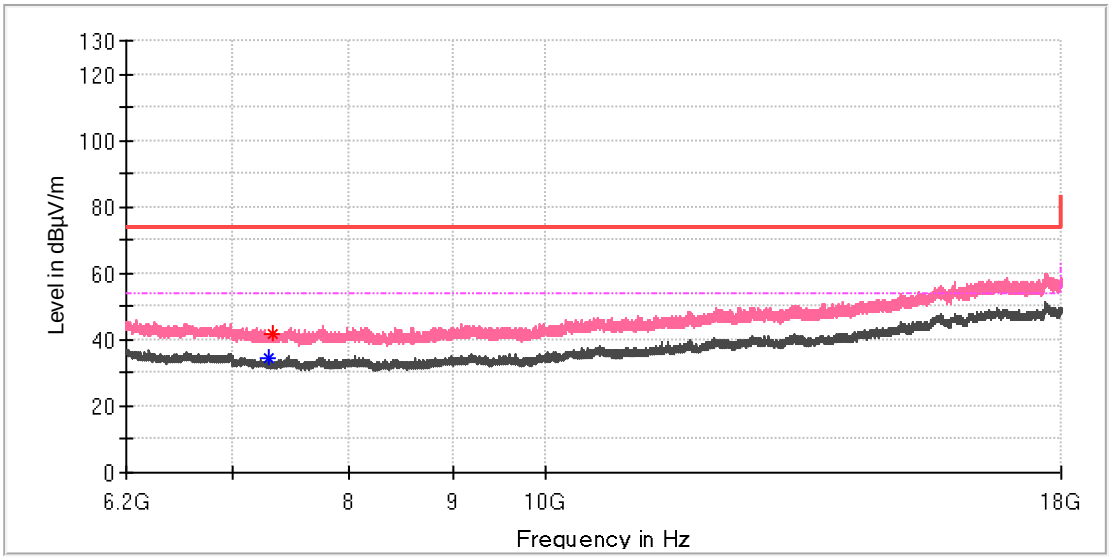
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7308.216667	---	33.28	54.00	20.72	100.0	H	125.0	8.2
7313.625000	43.05	---	74.00	30.95	100.0	H	357.0	8.2

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:	Q380RR
Test Mode:	WiFi 2.4G_11g_Ch6
Order No/Sample No:	168364227/A003231951-001
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

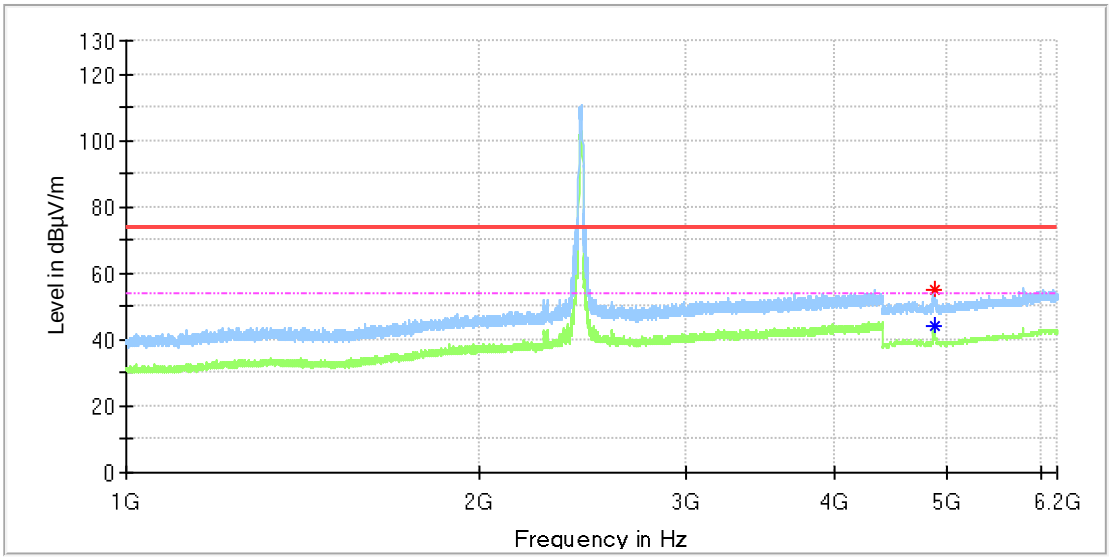
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7286.091667	---	34.50	54.00	19.50	100.0	V	0.0	8.4
7324.933333	41.87	---	74.00	32.13	100.0	V	66.0	8.2

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:	Q380RR
Test Mode:	WiFi 2.4G_11n_Ch6
Order No/Sample No:	168364227/A003231951-001
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

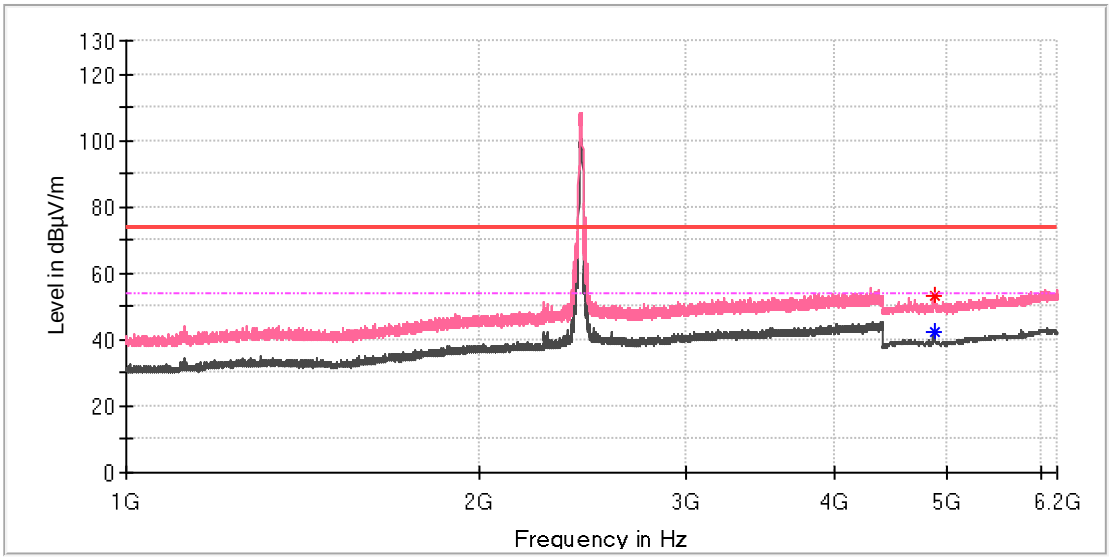
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4869.500000	---	44.37	54.00	9.63	100.0	H	123.0	11.8
4877.000000	55.12	---	74.00	18.88	100.0	H	123.0	11.8

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:	Q380RR
Test Mode:	WiFi 2.4G_11n_Ch6
Order No/Sample No:	168364227/A003231951-001
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

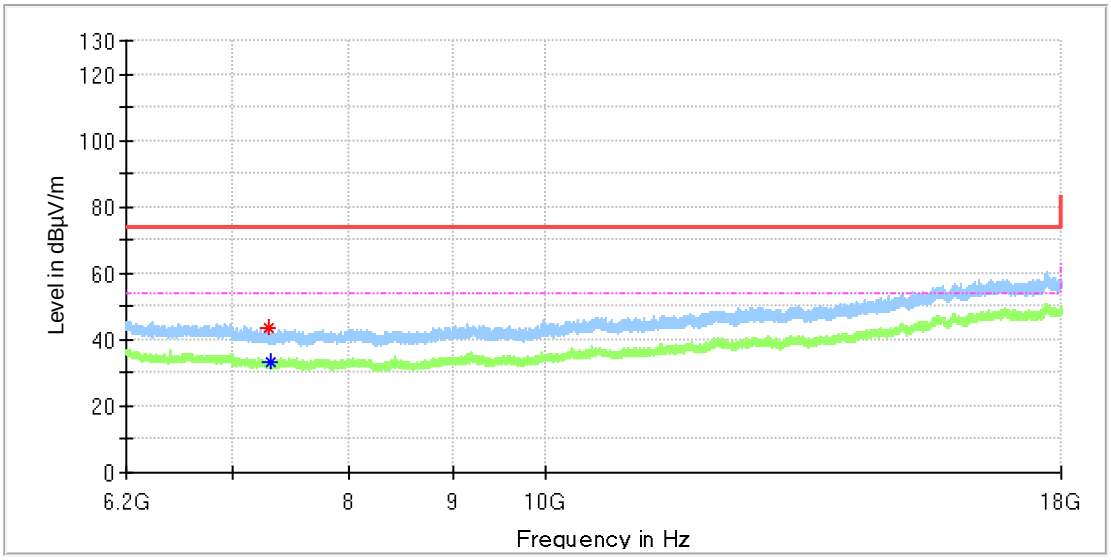
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4876.500000	---	42.61	54.00	11.39	100.0	V	288.0	11.8
4878.000000	53.41	---	74.00	20.59	100.0	V	88.0	11.8

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:	Q380RR
Test Mode:	WiFi 2.4G_11n_Ch6
Order No/Sample No:	168364227/A003231951-001
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

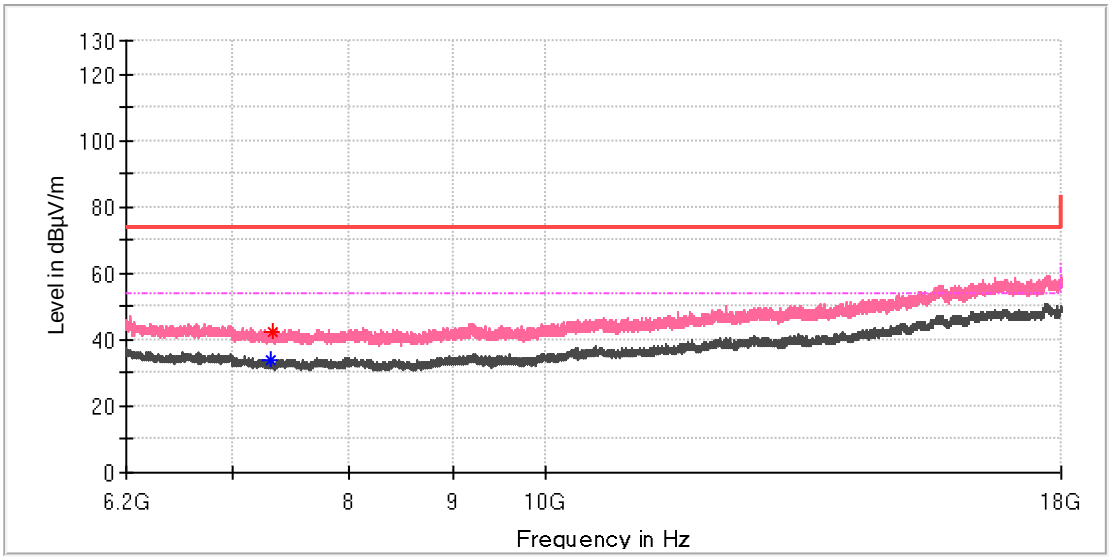
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7293.466667	43.62	---	74.00	30.38	100.0	H	11.0	8.3
7305.758333	---	33.48	54.00	20.52	100.0	H	142.0	8.3

Final_Result

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

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	Q380RR
Test Mode:	WiFi 2.4G_11n_Ch6
Order No/Sample No:	168364227/A003231951-001
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
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)
7302.808333	---	33.58	54.00	20.42	100.0	V	86.0	8.3
7319.033333	42.14	---	74.00	31.86	100.0	V	61.0	8.2

Final_Result

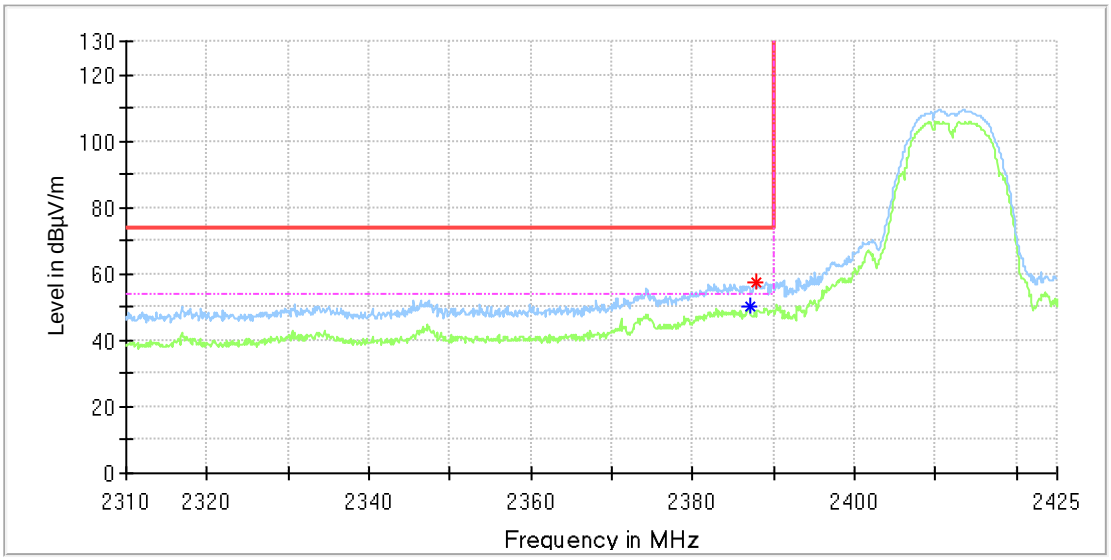
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

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

Wi-Fi 802.11 b mode, 1 Mbps

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	Q380RR
Test Mode:	WiFi 2.4G_11b_Ch1
Order No/Sample No:	168364227/A003231951-001
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

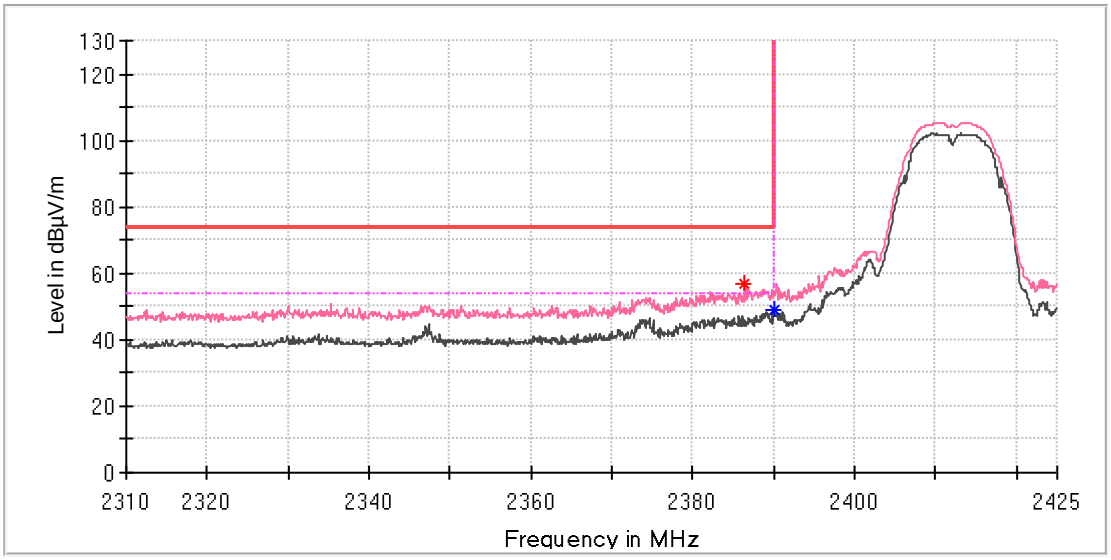
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2387.000000	---	50.30	54.00	3.70	100.0	H	110.0	7.0
2387.900000	57.52	---	74.00	16.48	100.0	H	110.0	7.0

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:	Q380RR
Test Mode:	WiFi 2.4G_11b_Ch1
Order No/Sample No:	168364227/A003231951-001
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

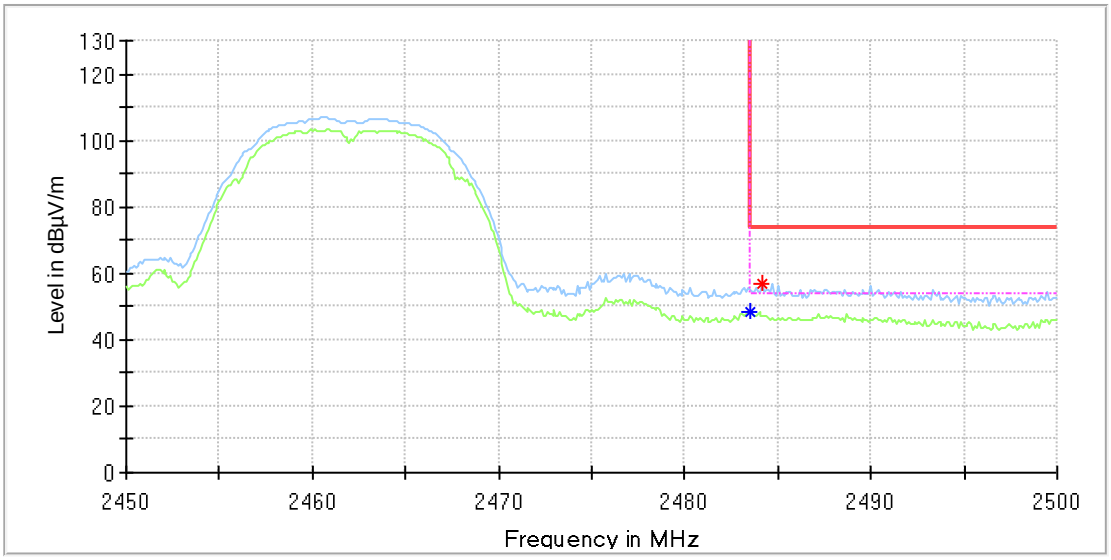
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2386.400000	56.99	---	74.00	17.01	100.0	V	134.0	7.0
2390.000000	---	48.94	54.00	5.06	100.0	V	134.0	7.0

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:	Q380RR
Test Mode:	WiFi 2.4G_11b_Ch11
Order No/Sample No:	168364227/A003231951-001
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

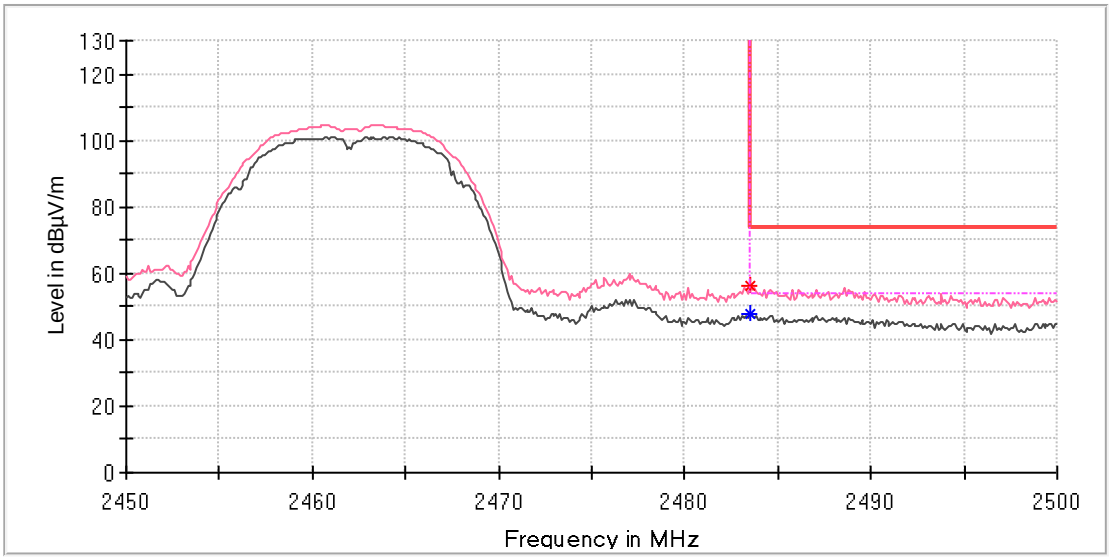
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.500000	---	48.57	54.00	5.43	100.0	H	108.0	7.4
2484.200000	57.00	---	74.00	17.00	100.0	H	108.0	7.4

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:	Q380RR
Test Mode:	WiFi 2.4G_11b_Ch11
Order No/Sample No:	168364227/A003231951-001
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.500000	56.41	---	74.00	17.59	100.0	V	198.0	7.4
2483.500000	---	48.04	54.00	5.96	100.0	V	198.0	7.4

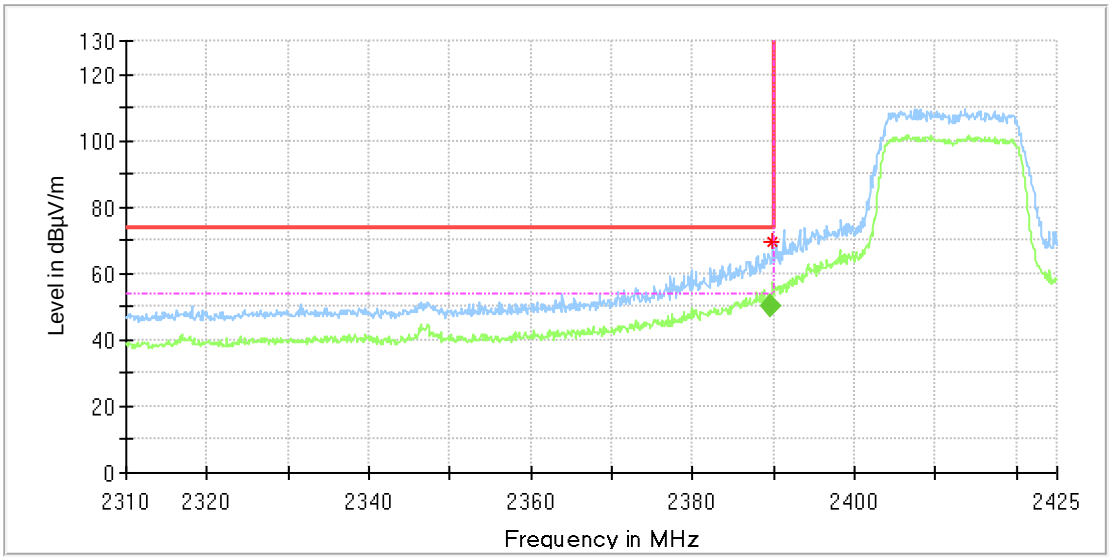
Final_Result

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

Wi-Fi 802.11 g mode, 6 Mbps

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	Q380RR
Test Mode:	WiFi 2.4G_11g_Ch1
Order No/Sample No:	168364227/A003231951-001
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

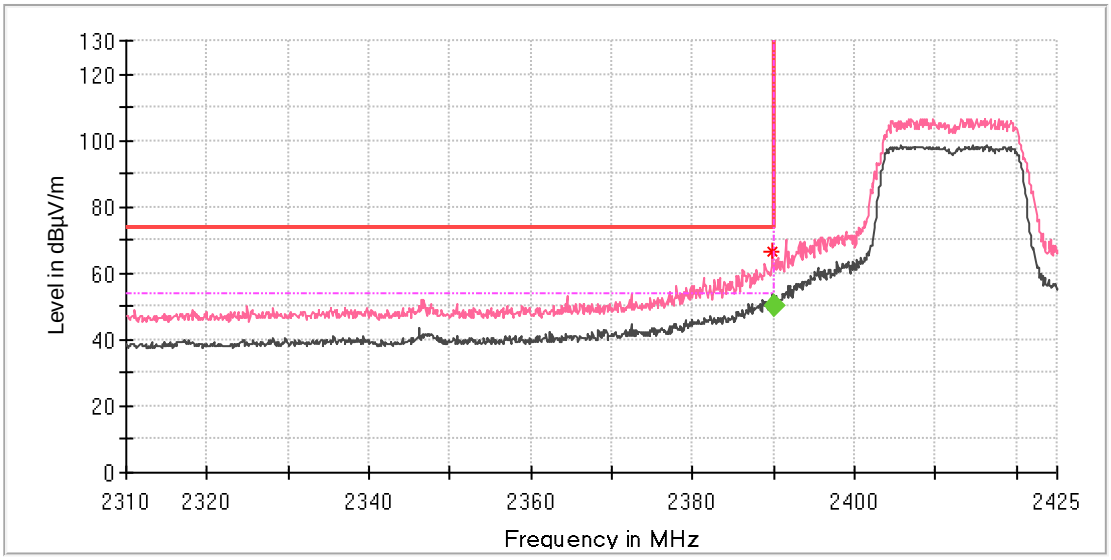
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.900000	69.35	---	74.00	4.65	100.0	H	92.0	7.0

Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.630850	50.28	54.00	3.72	105.0	H	47.0	7.0

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	Q380RR
Test Mode:	WiFi 2.4G_11g_Ch1
Order No/Sample No:	168364227/A003231951-001
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

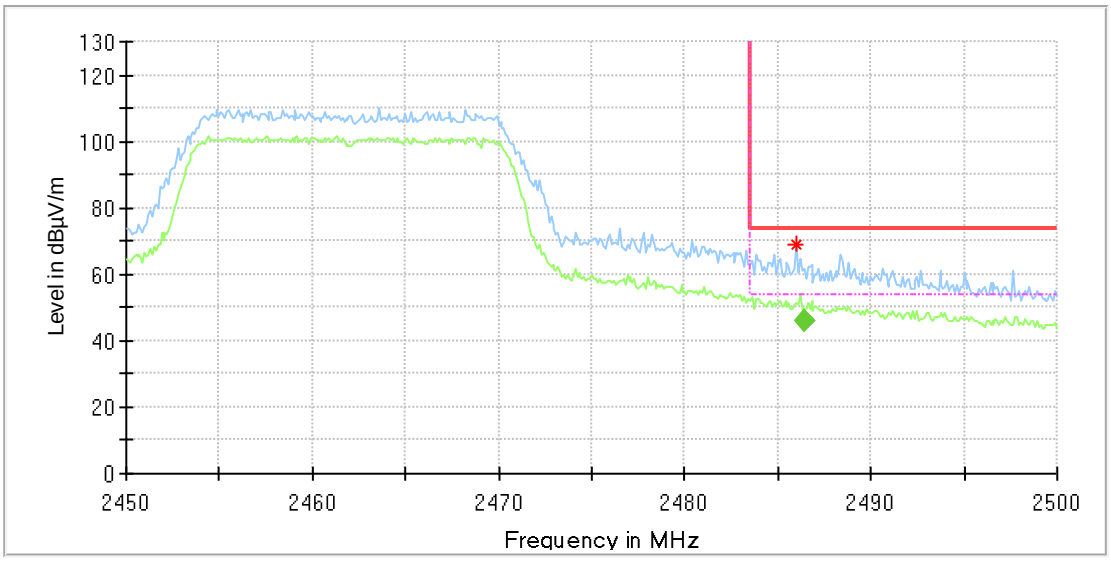
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.800000	66.62	---	74.00	7.38	100.0	V	129.0	7.0

Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.984150	49.99	54.00	4.01	105.0	V	127.0	7.0

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	Q380RR
Test Mode:	WiFi 2.4G_11g_Ch11
Order No/Sample No:	168364227/A003231951-001
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

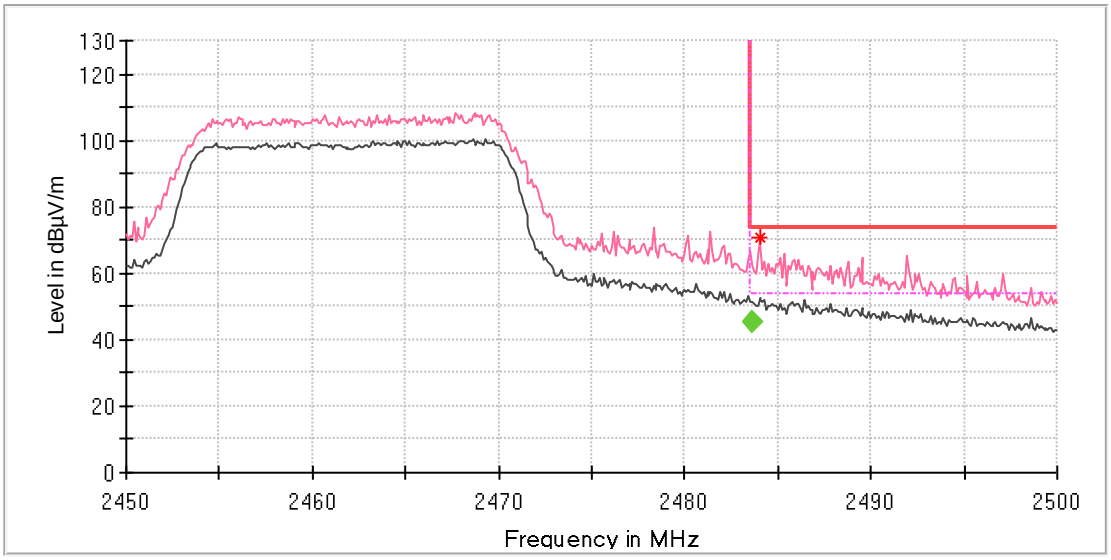
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2486.000000	68.63	---	74.00	5.37	100.0	H	236.0	7.4

Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2486.371900	45.85	54.00	8.15	100.0	H	104.0	7.4

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	Q380RR
Test Mode:	WiFi 2.4G_11g_Ch11
Order No/Sample No:	168364227/A003231951-001
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
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)
2484.000000	70.83	---	74.00	3.17	100.0	V	214.0	7.4

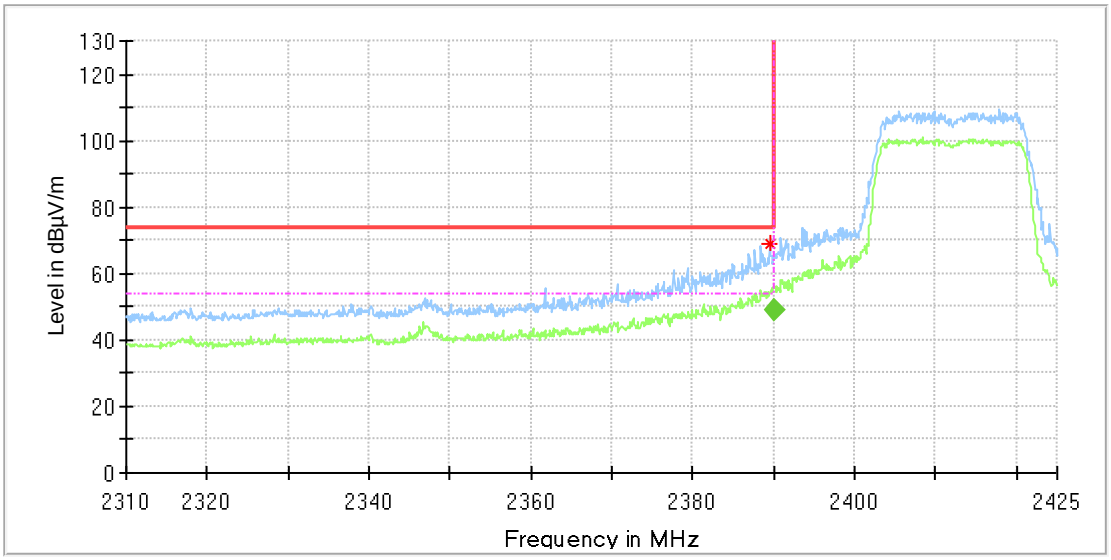
Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.574700	45.33	54.00	8.67	100.0	V	209.0	7.4

Wi-Fi 802.11 n(HT20) mode, MCS0

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	Q380RR
Test Mode:	WiFi 2.4G_11n_Ch1
Order No/Sample No:	168364227/A003231951-001
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

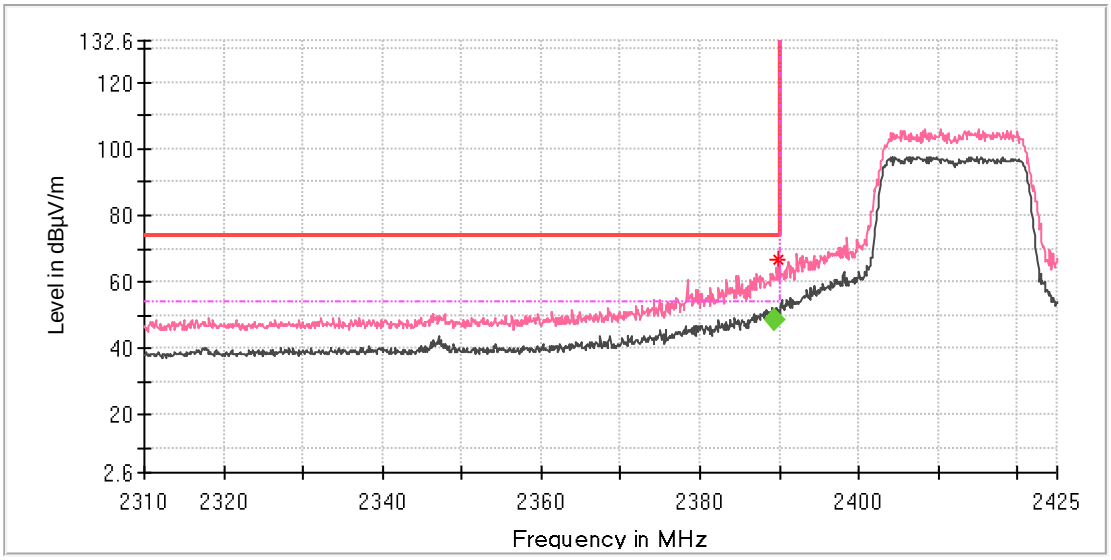
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.500000	68.81	---	74.00	5.19	100.0	H	93.0	7.0

Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.955400	49.25	54.00	4.75	100.0	H	91.0	7.0

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	Q380RR
Test Mode:	WiFi 2.4G_11n_Ch1
Order No/Sample No:	168364227/A003231951-001
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

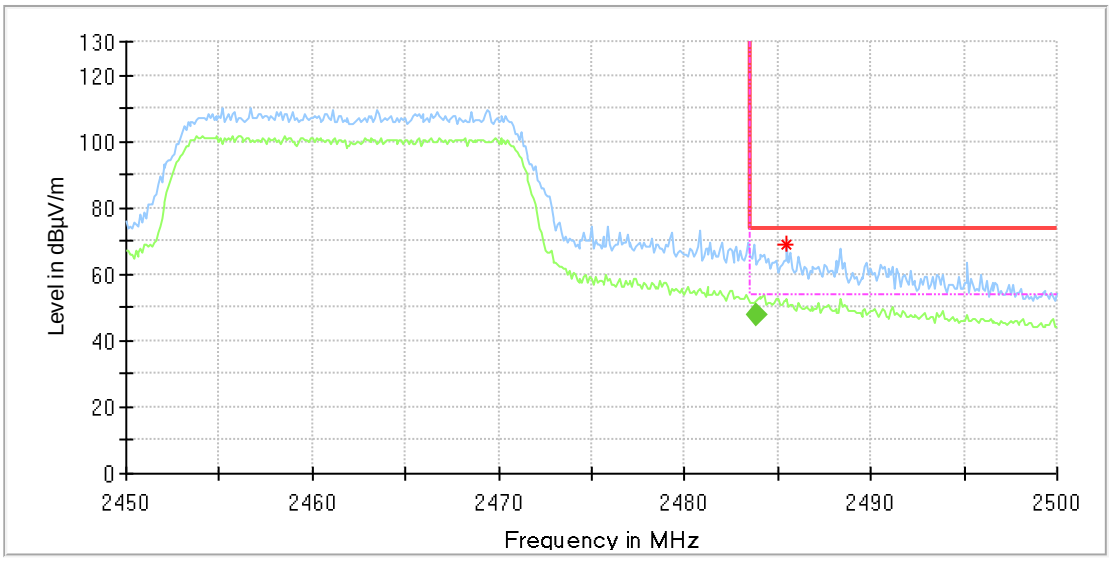
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.900000	66.78	---	74.00	7.22	100.0	V	192.0	7.0

Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.349300	48.66	54.00	5.34	100.0	V	121.0	7.0

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	Q380RR
Test Mode:	WiFi 2.4G_11n_Ch11
Order No/Sample No:	168364227/A003231951-001
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

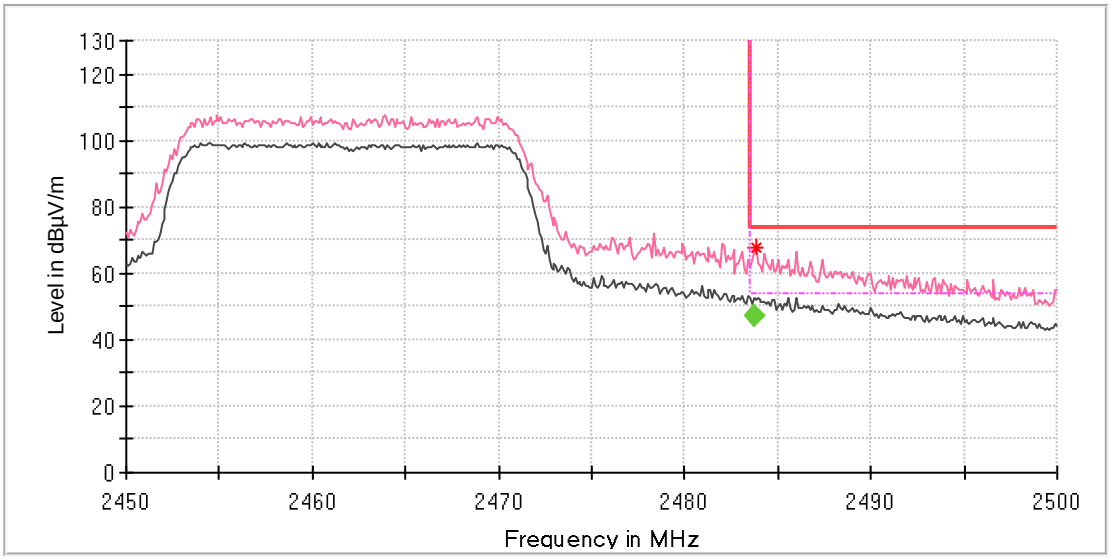
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2485.500000	68.82	---	74.00	5.18	100.0	H	54.0	7.4

Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.808000	47.97	54.00	6.03	100.0	H	288.0	7.4

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	Q380RR
Test Mode:	WiFi 2.4G_11n_Ch11
Order No/Sample No:	168364227/A003231951-001
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.800000	67.73	---	74.00	6.27	100.0	V	195.0	7.4

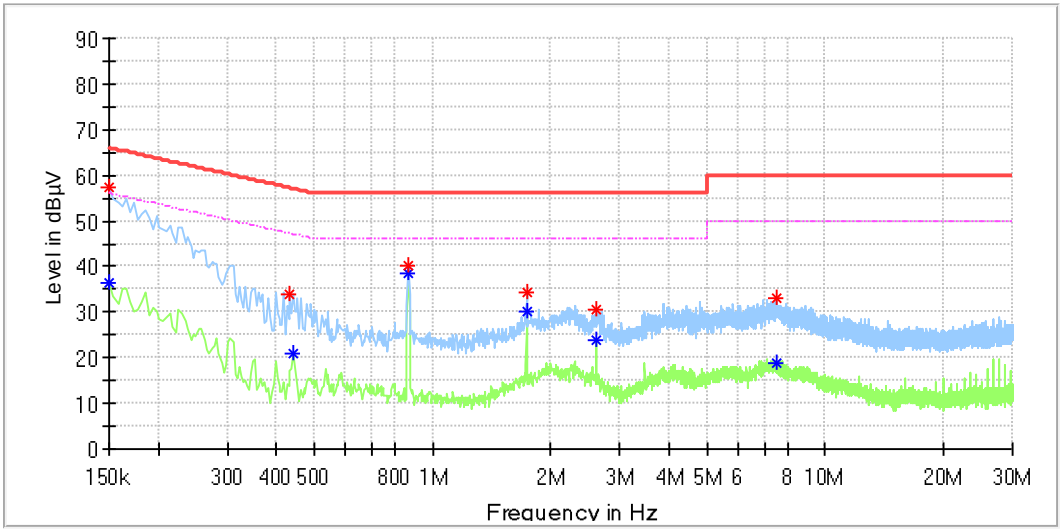
Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.700400	47.19	54.00	6.81	105.0	V	184.0	7.4

Appendix B.3: Test Results of Conducted Emission

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Order No:	168364227
Model:	Q380RR
Test mode:	Charging+Wifi link
Test Voltage:	AC 120V/60Hz
Test By:	William Wang
Review By:	Terry Yin
Tem./Hum./Pressure:	23.5'C/56%/101kPa



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150000	57.30	---	66.00	8.70	L1	9.9
0.150000	---	36.53	56.00	19.47	L1	9.9
0.434000	34.00	---	57.18	23.18	L1	9.9
0.442000	---	21.08	47.02	25.95	L1	9.9
0.870000	---	38.61	46.00	7.39	L1	10.0
0.870000	40.12	---	56.00	15.88	L1	10.0
1.738000	---	29.93	46.00	16.07	L1	10.1
1.738000	34.20	---	56.00	21.80	L1	10.1
2.602000	30.70	---	56.00	25.30	L1	10.2
2.606000	---	23.94	46.00	22.06	L1	10.2
7.502000	---	18.64	50.00	31.36	L1	10.3
7.514000	33.07	---	60.00	26.93	L1	10.3

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
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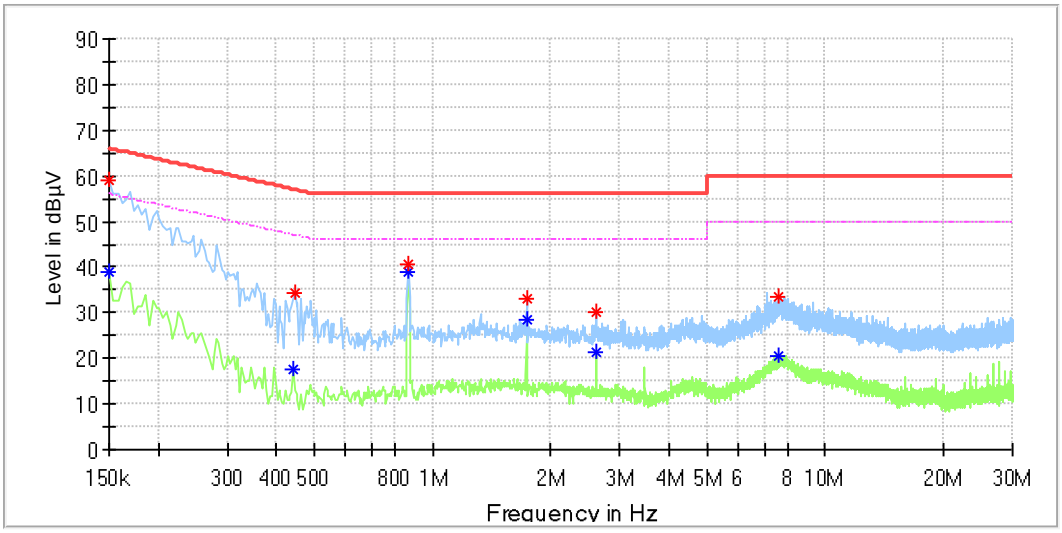
EUT Information

EUT Name:	Robotic Vacuum Cleaner
Order No:	168364227
Model:	Q380RR
Test mode:	Charging+Wifi link
Test Voltage:	AC 120V/60Hz
Test By:	William Wang
Review By:	Terry Yin
Tem./Hum./Pressure:	23.5'C/56%/101kPa



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150000	---	38.78	56.00	17.22	N	9.8
0.150000	59.17	---	66.00	6.83	N	9.8
0.442000	---	17.68	47.02	29.34	N	9.8
0.446000	34.29	---	56.95	22.66	N	9.8
0.870000	---	38.98	46.00	7.02	N	9.8
0.870000	40.68	---	56.00	15.32	N	9.8
1.738000	---	28.63	46.00	17.37	N	9.8
1.738000	33.02	---	56.00	22.98	N	9.8
2.606000	---	21.55	46.00	24.45	N	9.9
2.606000	30.35	---	56.00	25.65	N	9.9
7.614000	33.46	---	60.00	26.54	N	10.0
7.634000	---	20.42	50.00	29.58	N	10.0

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
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