Appendix A: Test Results of Bluetooth LE

APPENDIX A: TEST RESULTS OF BLUETOOTH LE 1

APPENDIX A.1: TEST RESULTS OF 6DB BANDWIDTH 2
Test Result 2
Test Graphs 3
APPENDIX A.2: TEST RESULTS OF 99% BANDWIDTH 6
Test Result 6
Test Graphs 7
APPENDIX A.3: TEST RESULTS OF CONDUCTED POWER SPECTRAL DENSITY 10
Test Result 10
Test Graphs 11
APPENDIX A.4: TEST RESULTS OF BAND EDGE MEASUREMENTS 14
Test Result 14
Test Graphs 15
APPENDIX A.5: TEST RESULTS OF CONDUCTED SPURIOUS EMISSION 17
Test Result 17
Test Graphs 18
APPENDIX A.6: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS 25
30 MHz - 1GHz 25
1GHz - 18GHz 27
APPENDIX A.7: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS 39
APPENDIX A.8: TEST RESULTS OF CONDUCTED EMISSION ON AC MAINS 47

Appendix A.1: Test Results of 6dB Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.664	2401.652	2402.316	0.5	PASS
		2440	0.660	2439.656	2440.316	0.5	PASS
		2480	0.660	2479.644	2480.304	0.5	PASS
BLE_2M	Ant1	2402	1.340	2401.292	2402.632	0.5	PASS
		2440	1.336	2439.304	2440.640	0.5	PASS
		2480	1.348	2479.292	2480.640	0.5	PASS

Test Graphs

BLE_1M_Ant1_2402

BLE_1M_Ant1_2440

BLE_1M_Ant1_2480

BLE_2M_Ant1_2402

BLE_2M_Ant1_2440

BLE_2M_Ant1_2480

Spectrum Analyzer 1
Swept SA
KEYSIGHT
Frequency
Center Frequency
2.480000000 GHz
Settings
Span
4.00000000 MHz
Swept Span
Zero Span
Full Span
Start Freq
2.478000000 GHz
Stop Freq
2.482000000 GHz
AUTO TUNE
CF Step
400.000 kHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
Local
1 Spectrum
Ref Lvl Offset 18.16 dB
Ref Level 30.00 dBm
ΔMkr3 1.348 MHz
0.05 dB
Scale/Div 10 dB
Log
Center 2.480000 GHz
#Res BW 100 kHz
#Video BW 300 kHz
Span 4.000 MHz
Sweep 1.00 ms (1001 pts)
5 Marker Table
Mode Trace Scale X Y Function Function Width Function Value
1 N 1 f 2.479 292 GHz 0.9471 dBm
2 N 1 f 2.479 472 GHz 6.835 dBm
3 Δ1 1 f (Δ) 1.348 MHz (Δ) 0.04510 dB
Nov 04, 2025
10:48:37 AM

Appendix A.2: Test Results of 99% Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.94308	2401.5101	2402.4532	---	PASS
		2440	0.92883	2439.5156	2440.4445	---	PASS
		2480	0.95329	2479.4937	2480.4470	---	PASS
BLE_2M	Ant1	2402	1.8923	2401.0491	2402.9414	---	PASS
		2440	1.8873	2439.0342	2440.9215	---	PASS
		2480	1.8954	2479.0387	2480.9341	---	PASS

Test Graphs

BLE_1M_Ant1_2402

BLE_1M_Ant1_2440

BLE_1M_Ant1_2480

BLE_2M_Ant1_2402

BLE_2M_Ant1_2440

BLE_2M_Ant1_2480

Spectrum Analyzer 1
Occupied BW
KEYSIGHT
Frequency
Center Frequency
2.480000000 GHz
Settings
Span
4.0000 MHz
CF Step
400.000 kHz
Auto
Man
Freq Offset
0 Hz
1 Graph
Ref Lvl Offset 18.16 dB
Ref Value 30.00 dBm
Mkr1 2.480460000 GHz
5.07 dBm
Scale/Div 10.0 dB
Log
Center 2.480000 GHz
#Res BW 43.000 kHz
#Video BW 130.00 kHz
Span 4 MHz
Sweep 2.07 ms (1001 pts)
2 Metrics
Occupied Bandwidth
1.8954 MHz
Total Power
15.7 dBm
Transmit Freq Error
-13.607 kHz
% of OBW Power
99.00 %
x dB Bandwidth
2.550 MHz
x dB
-26.00 dB
Local
Nov 04, 2025
10:48:44 AM

Appendix A.3: Test Results of Conducted Power Spectral Density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-4.74	≤8.00	PASS
		2440	-5.22	≤8.00	PASS
		2480	-5.41	≤8.00	PASS
BLE_2M	Ant1	2402	-8.91	≤8.00	PASS
		2440	-9.37	≤8.00	PASS
		2480	-9.42	≤8.00	PASS

Test Graphs

BLE_1M_Ant1_2402

BLE_1M_Ant1_2440

BLE_1M_Ant1_2480

BLE_2M_Ant1_2402

BLE_2M_Ant1_2440

BLE_2M_Ant1_2480

Spectrum Analyzer 1
Swept SA
KEYSIGHT
Frequency
Center Frequency
2.480000000 GHz
Settings
Span
2.69600000 MHz
Swept Span
Zero Span
Full Span
Start Freq
2.478652000 GHz
Stop Freq
2.481348000 GHz
AUTO TUNE
CF Step
269.600 kHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
Local
1 Spectrum
Ref Lvl Offset 18.16 dB
Ref Level 20.00 dBm
Mkr1 2.480 338 76 GHz
-9.42 dBm
Scale/Div 10 dB
Log
Center 2.480000 GHz
#Res BW 3.0 kHz
#Video BW 10 kHz
Span 2.696 MHz
Sweep 286 ms (30000 pts)
Nov 04, 2025
10:49:52 AM

Appendix A.4: Test Results of Band Edge Measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	9.22	-32.85	≤-10.78	PASS
		High	2480	8.84	-41.53	≤-11.16	PASS
BLE_2M	Ant1	Low	2402	7.77	-29.02	≤-12.23	PASS
		High	2480	7.35	-41.47	≤-12.65	PASS

Test Graphs

BLE_1M_Ant1_Low_2402

BLE_1M_Ant1_High_2480

BLE_2M_Ant1_Low_2402

BLE_2M_Ant1_High_2480

Appendix A.5: Test Results of Conducted Spurious Emission

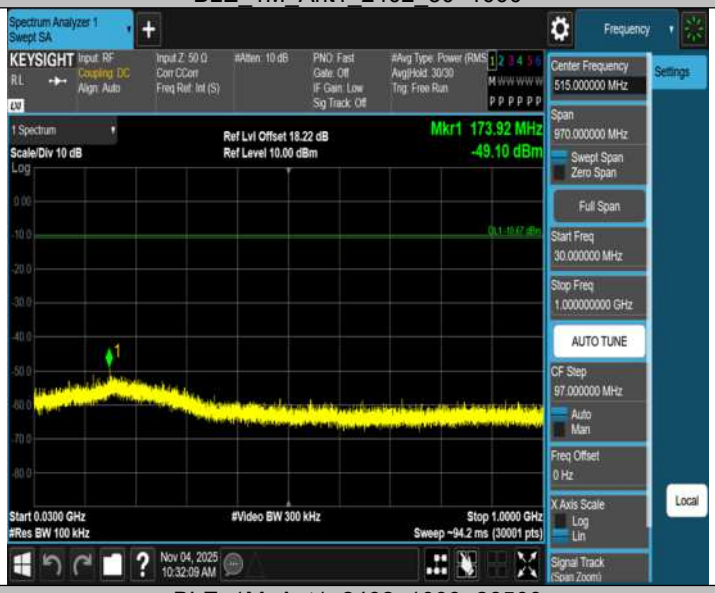
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	9.33	9.33	---	PASS
			30~1000	9.33	-49.1	≤-10.67	PASS
			1000~26500	9.33	-53.03	≤-10.67	PASS
		2440	Reference	8.71	8.71	---	PASS
			30~1000	8.71	-51.06	≤-11.29	PASS
			1000~26500	8.71	-53.16	≤-11.29	PASS
		2480	Reference	8.52	8.52	---	PASS
			30~1000	8.52	-51.49	≤-11.48	PASS
			1000~26500	8.52	-52.45	≤-11.48	PASS
BLE_2M	Ant1	2402	Reference	9.11	9.11	---	PASS
			30~1000	9.11	-51.28	≤-10.89	PASS
			1000~26500	9.11	-50.75	≤-10.89	PASS
		2440	Reference	8.69	8.69	---	PASS
			30~1000	8.69	-51.44	≤-11.31	PASS
			1000~26500	8.69	-52	≤-11.31	PASS
		2480	Reference	7.54	7.54	---	PASS
			30~1000	7.54	-50.6	≤-12.46	PASS
			1000~26500	7.54	-52.91	≤-12.46	PASS

Test Graphs

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

BLE_2M_Ant1_2402_0~Reference

BLE_2M_Ant1_2402_30~1000

BLE_2M_Ant1_2402_1000~26500

BLE_2M_Ant1_2440_0~Reference

BLE_2M_Ant1_2440_30~1000

BLE_2M_Ant1_2440_1000~26500

BLE_2M_Ant1_2480_0~Reference

BLE_2M_Ant1_2480_30~1000

BLE_2M_Ant1_2480_1000~26500

Spectrum Analyzer 1
Swept SA
KEYSIGHT
Frequency
Center Frequency
13.750000000 GHz
Settings
Span
25.5000000 GHz
Swept Span
Zero Span
Full Span
Start Freq
1.000000000 GHz
Stop Freq
26.500000000 GHz
AUTO TUNE
CF Step
2.550000000 GHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
Local
1 Spectrum
Ref Lvl Offset 18.16 dB
Ref Level 10.00 dBm
Mkr2 25.741 80 GHz
-52.91 dBm
Scale/Div 10 dB
Start 1.00 GHz
#Res BW 100 kHz
#Video BW 300 kHz
Stop 26.50 GHz
Sweep ~2.44 s (30001 pts)
5 Marker Table
Mode Trace Scale X Y Function Function Width Function Value
1 N 1 f 2.479 85 GHz 7.189 dBm
2 N 1 f 25.741 80 GHz -52.91 dBm
Nov 04, 2025
10:51:15 AM

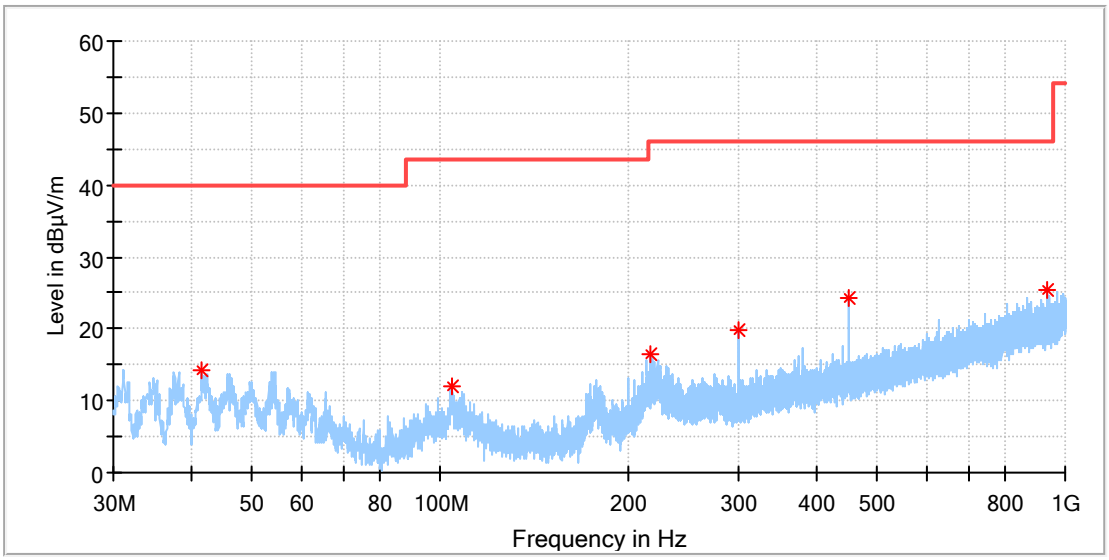
Appendix A.6: Test Results of Radiated Spurious Emissions

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.

30 MHz - 1GHz

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	RRE0VES
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168580092/A004126573-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

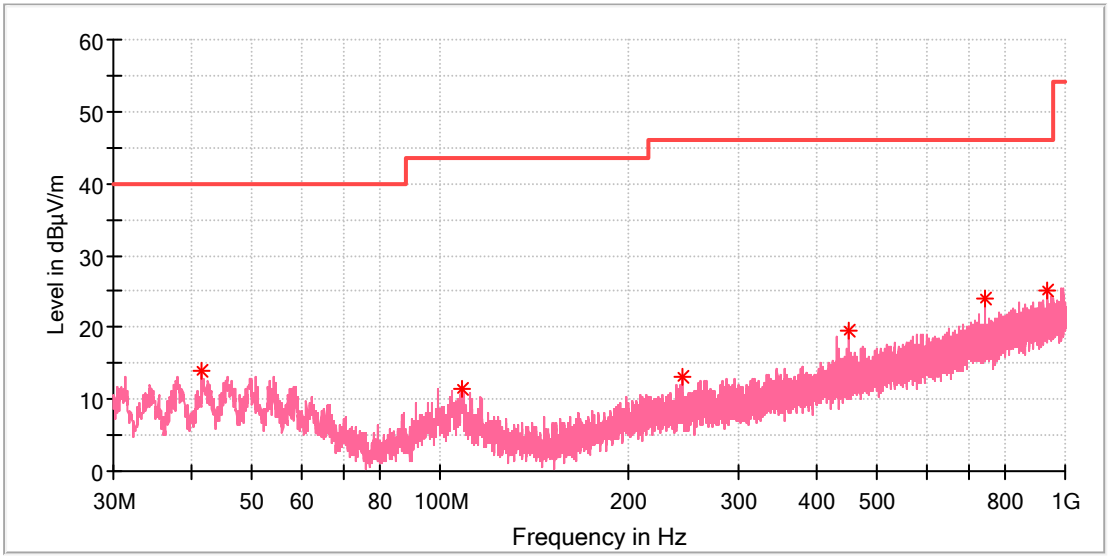
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
41.565385	14.26	40.00	25.74	100.0	H	14.0	-19.8
104.801923	11.94	43.50	31.56	100.0	H	24.0	-18.9
217.657692	16.39	46.00	29.61	100.0	H	257.0	-18.7
299.995769	19.90	46.00	26.10	100.0	H	296.0	-16.3
449.972692	24.25	46.00	21.75	100.0	H	279.0	-12.8
938.442308	25.49	46.00	20.51	100.0	H	248.0	-4.4

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:	RRE0VES
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168580092/A004126573-001
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)
41.528077	14.07	40.00	25.93	100.0	V	221.0	-19.8
108.420769	11.55	43.50	31.95	100.0	V	321.0	-19.1
243.847692	13.16	46.00	32.84	100.0	V	353.0	-17.6
450.010000	19.60	46.00	26.40	100.0	V	273.0	-12.8
742.502308	24.07	46.00	21.93	100.0	V	273.0	-7.2
938.442308	25.23	46.00	20.77	100.0	V	338.0	-4.4

Final_Result

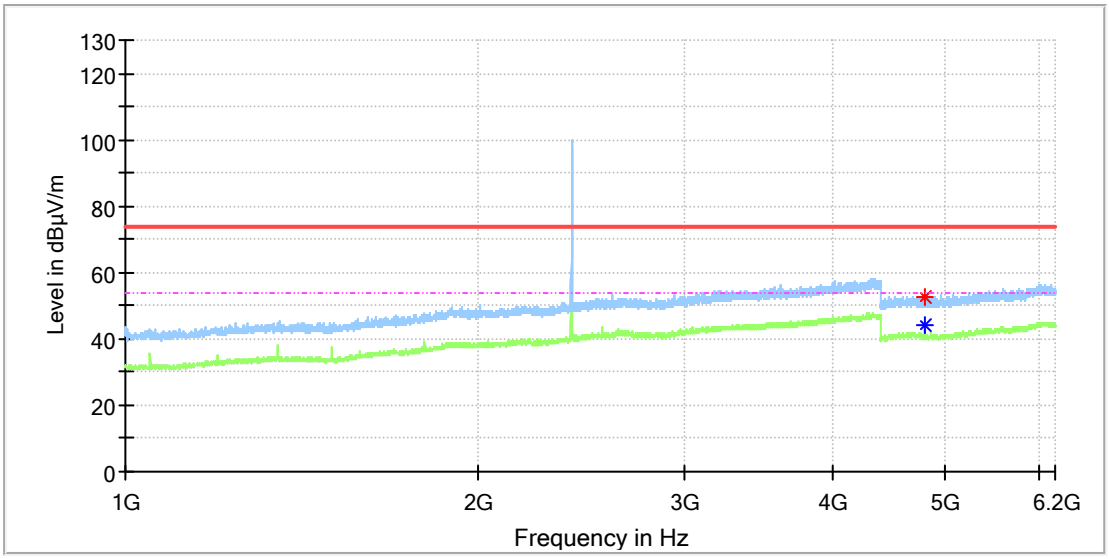
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

1GHz - 18GHz

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

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	RRE0VES
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168580092/A004126573-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

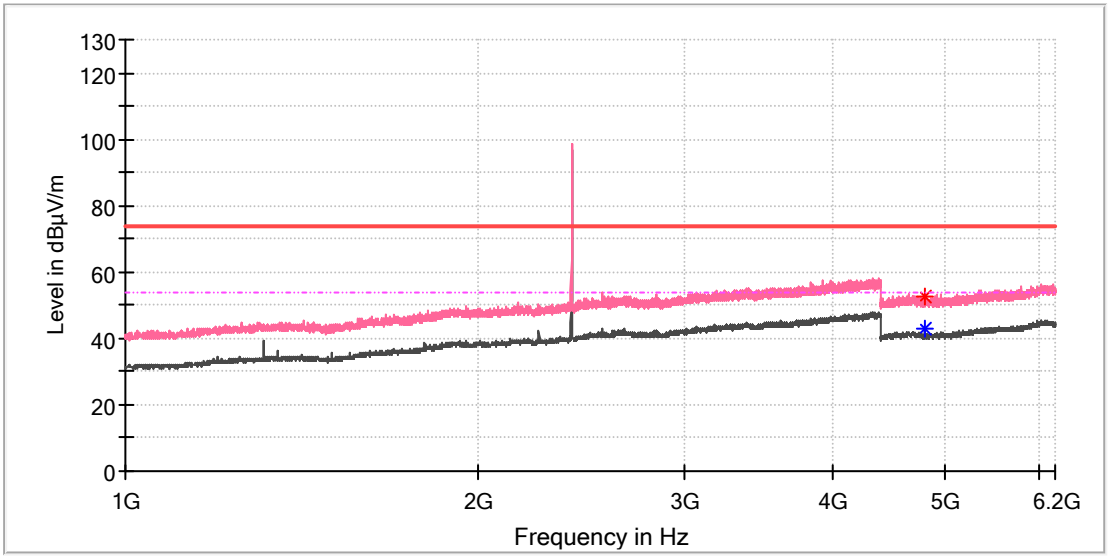
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4803.000000	---	43.99	54.00	10.01	150.0	H	210.0	13.3
4804.500000	52.56	---	74.00	21.44	150.0	H	233.0	13.3

Final_Result

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

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	RRE0VES
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168580092/A004126573-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

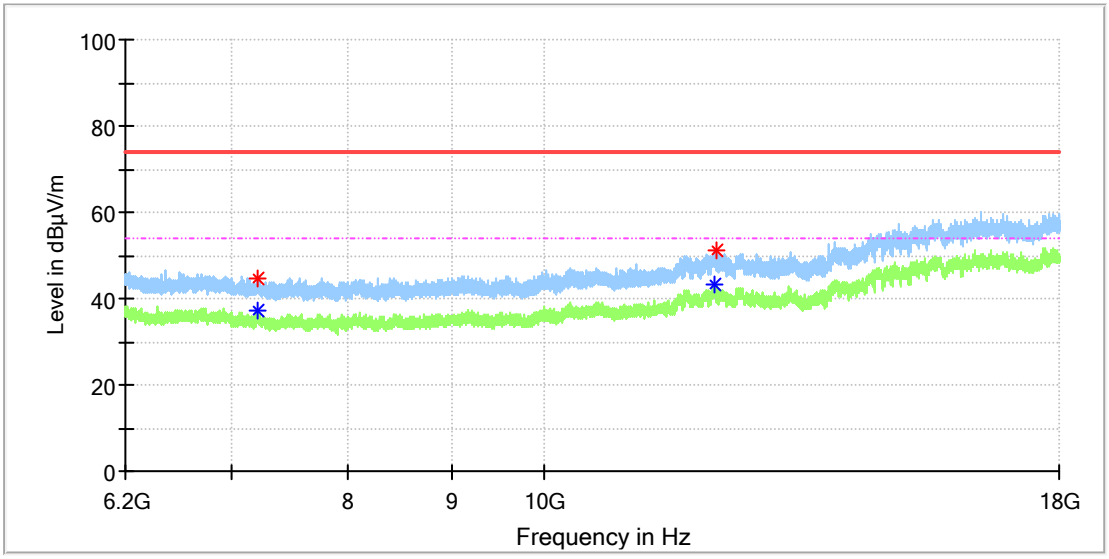
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4802.000000	52.60	---	74.00	21.40	150.0	V	79.0	13.3
4803.000000	---	43.21	54.00	10.79	150.0	V	72.0	13.3

Final_Result

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

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	RRE0VES
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168580092/A004126573-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

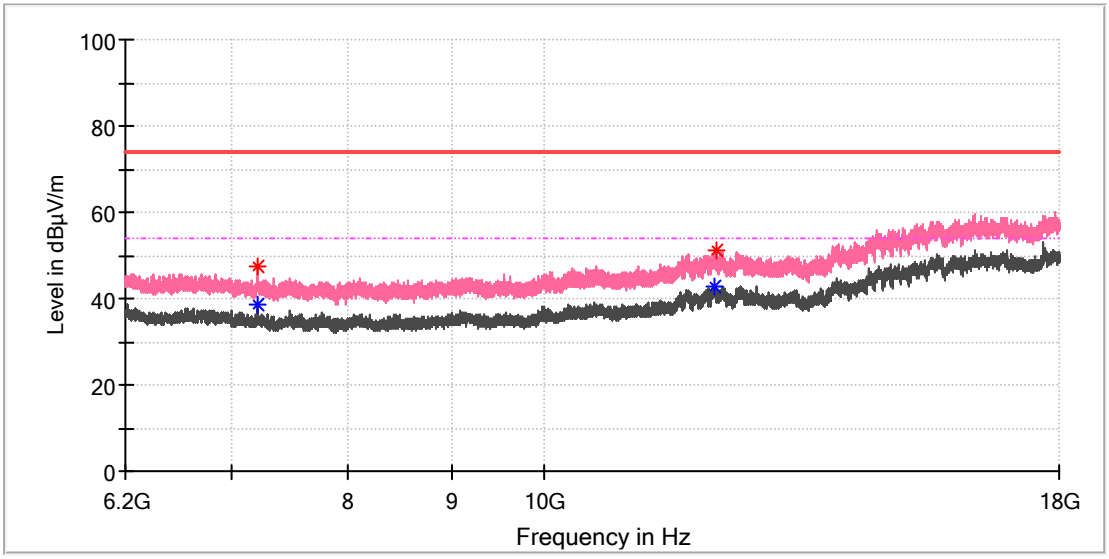
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7204.475000	---	37.12	54.00	16.88	150.0	H	258.0	8.8
7205.950000	44.87	---	74.00	29.13	150.0	H	293.0	8.8
12146.708333	---	43.29	54.00	10.71	150.0	H	358.0	16.6
12176.208333	50.99	---	74.00	23.01	150.0	H	168.0	15.4

Final_Result

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

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	RRE0VES
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168580092/A004126573-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

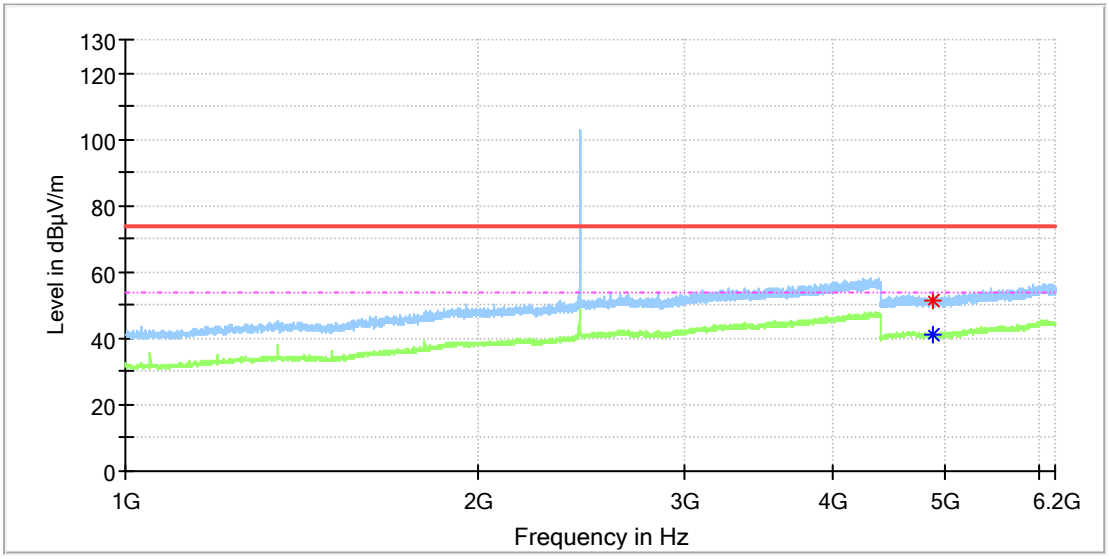
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7204.475000	47.25	---	74.00	26.75	150.0	V	206.0	8.8
7206.933333	---	38.83	54.00	15.17	150.0	V	206.0	8.8
12145.725000	---	42.65	54.00	11.35	150.0	V	14.0	16.6
12167.850000	51.00	---	74.00	23.00	150.0	V	36.0	15.8

Final_Result

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

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	RRE0VES
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168580092/A004126573-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

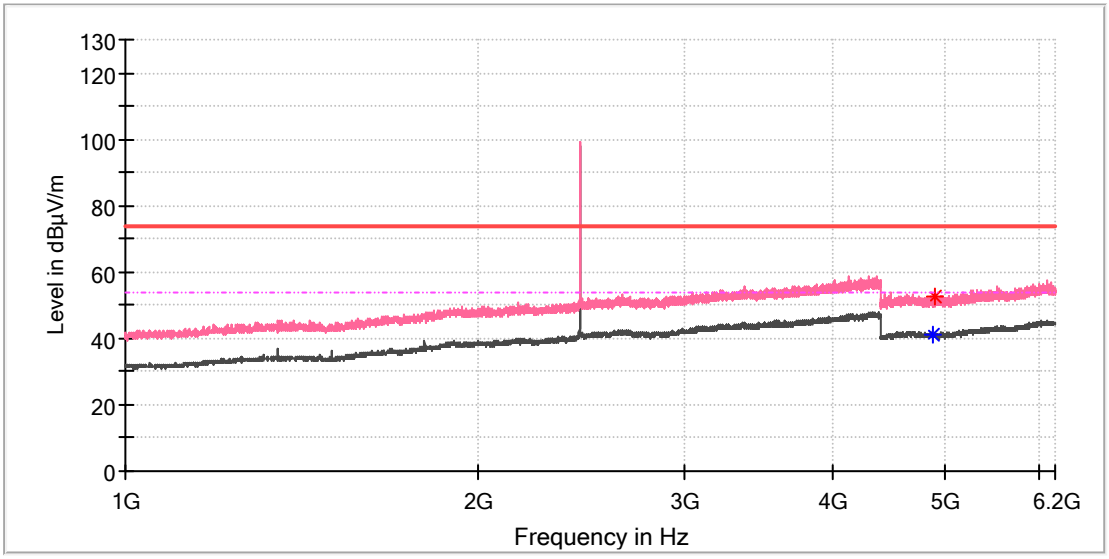
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4878.000000	51.65	---	74.00	22.35	150.0	H	19.0	13.3
4881.000000	---	41.27	54.00	12.73	150.0	H	121.0	13.3

Final_Result

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

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	RRE0VES
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168580092/A004126573-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

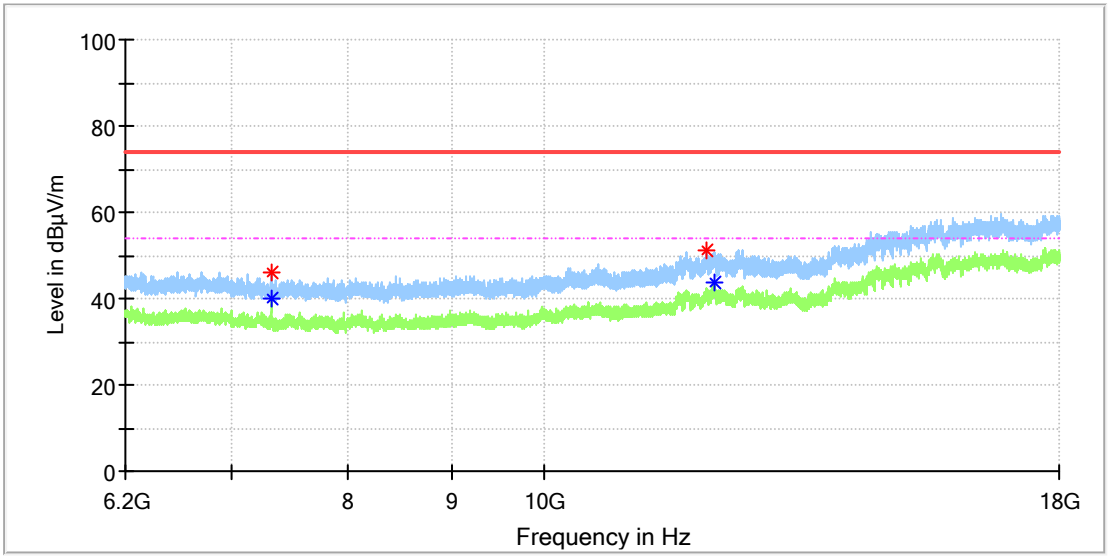
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4881.500000	---	41.14	54.00	12.86	150.0	V	101.0	13.3
4888.000000	52.36	---	74.00	21.64	150.0	V	176.0	13.3

Final_Result

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

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	RRE0VES
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168580092/A004126573-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

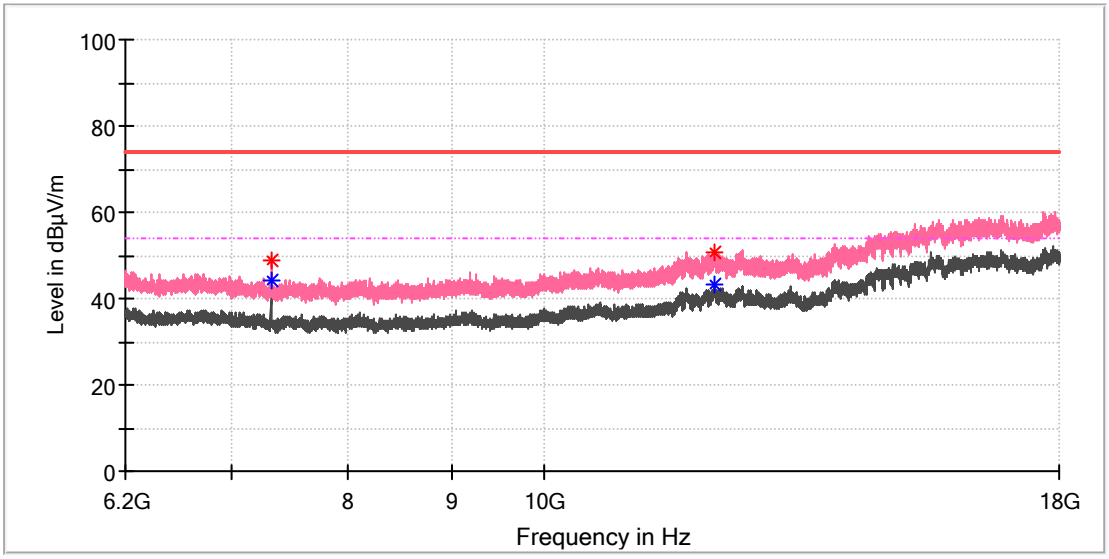
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7319.033333	---	39.91	54.00	14.09	150.0	H	246.0	8.2
7320.016667	46.24	---	74.00	27.76	150.0	H	246.0	8.2
12044.441667	51.28	---	74.00	22.72	150.0	H	120.0	16.3
12148.675000	---	43.84	54.00	10.16	150.0	H	200.0	16.7

Final_Result

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

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	RRE0VES
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168580092/A004126573-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

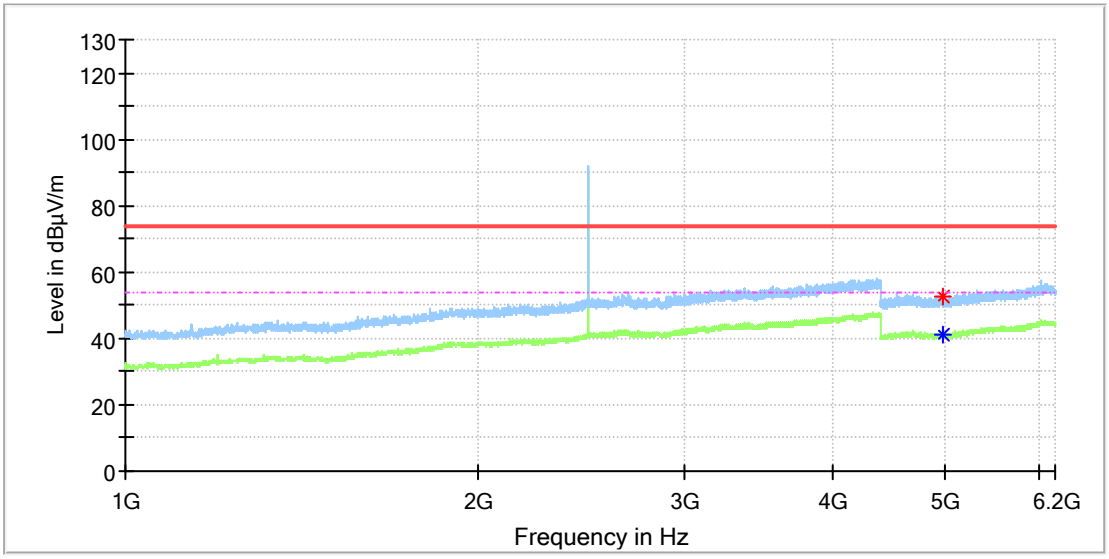
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7319.033333	48.80	---	74.00	25.20	150.0	V	236.0	8.2
7320.016667	---	44.30	54.00	9.70	150.0	V	236.0	8.2
12141.791667	---	43.36	54.00	10.64	150.0	V	67.0	16.5
12145.725000	50.88	---	74.00	23.12	150.0	V	67.0	16.6

Final_Result

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

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	RRE0VES
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168580092/A004126573-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

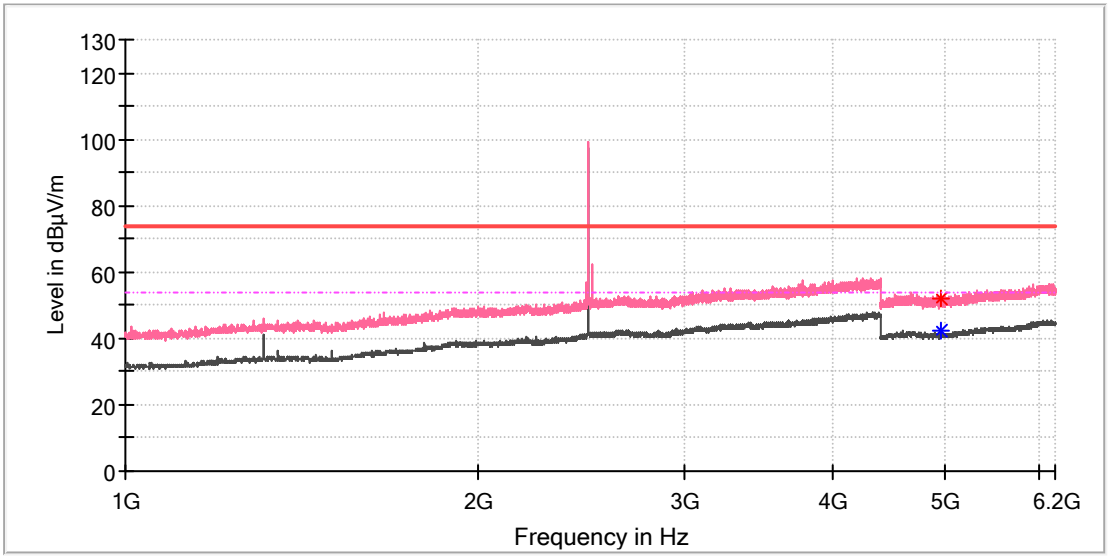
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4965.000000	52.32	---	74.00	21.68	150.0	H	60.0	13.3
4966.500000	---	41.19	54.00	12.81	150.0	H	20.0	13.3

Final_Result

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

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	RRE0VES
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168580092/A004126573-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

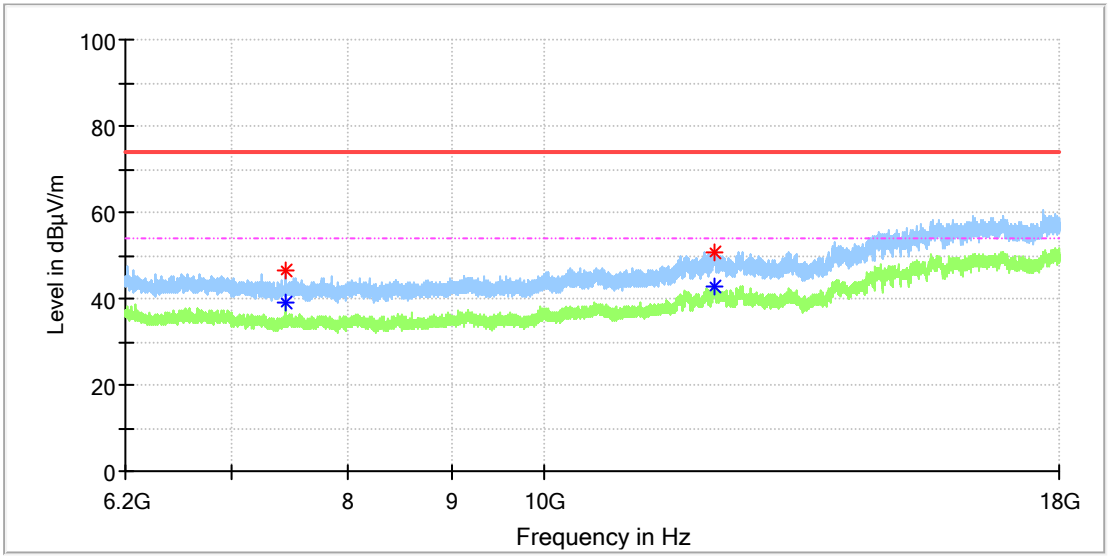
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4960.500000	---	42.57	54.00	11.43	150.0	V	161.0	13.3
4961.000000	51.74	---	74.00	22.26	150.0	V	184.0	13.3

Final_Result

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

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	RRE0VES
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168580092/A004126573-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

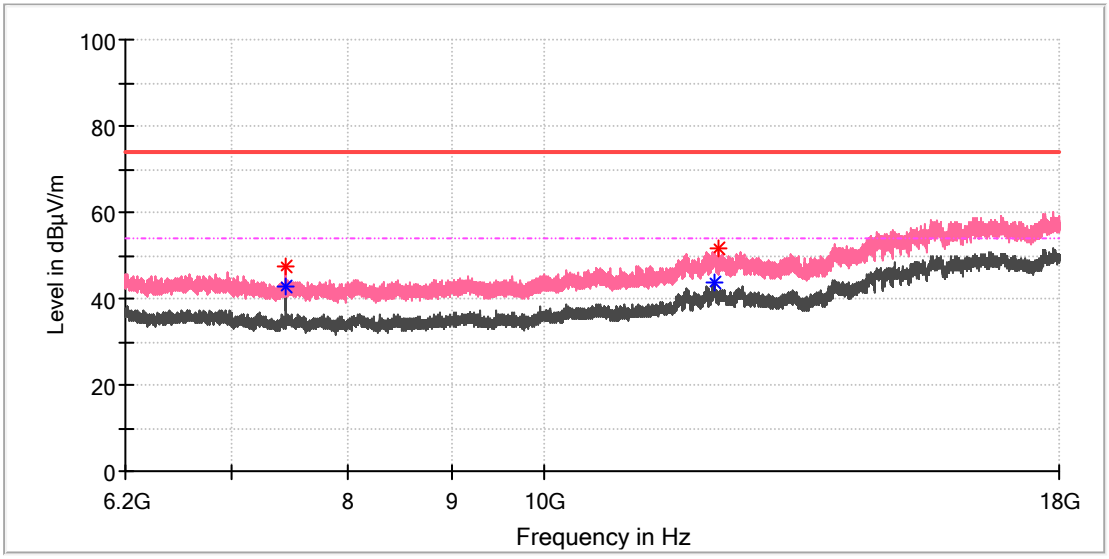
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7441.458333	---	38.97	54.00	15.03	150.0	H	217.0	8.4
7441.458333	46.65	---	74.00	27.35	150.0	H	217.0	8.4
12146.216667	---	42.86	54.00	11.14	150.0	H	206.0	16.6
12149.658333	50.71	---	74.00	23.29	150.0	H	307.0	16.7

Final_Result

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

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	RRE0VES
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168580092/A004126573-001
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)
7440.966667	47.39	---	74.00	26.61	150.0	V	217.0	8.4
7440.966667	---	42.60	54.00	11.40	150.0	V	217.0	8.4
12155.066667	---	43.82	54.00	10.18	150.0	V	317.0	16.5
12199.316667	51.46	---	74.00	22.54	150.0	V	107.0	15.6

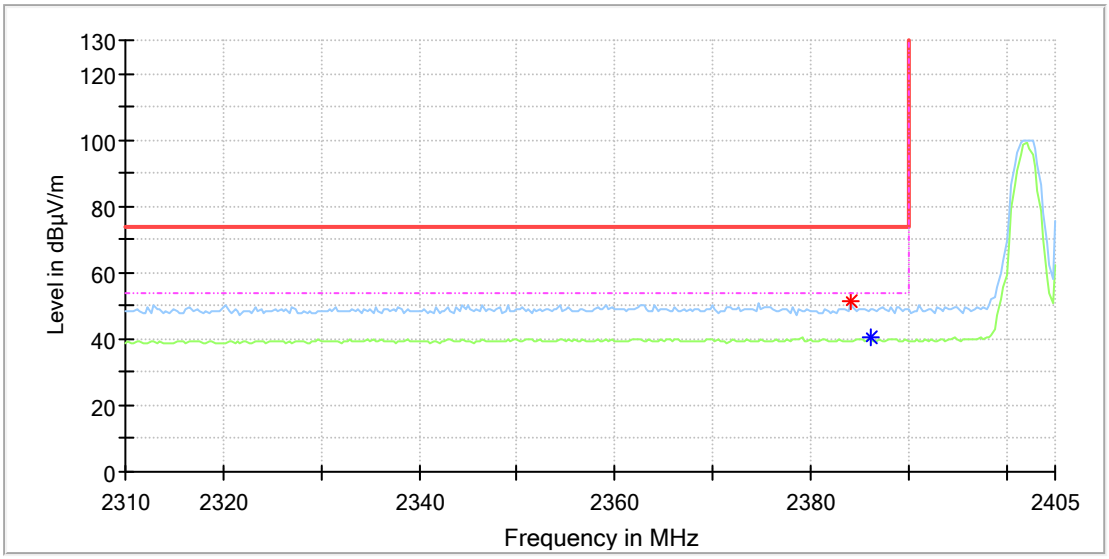
Final_Result

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

Appendix A.7: Test Results of Radiated Emissions in Restricted Bands

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	RRE0VES
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168580092/A004126573-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

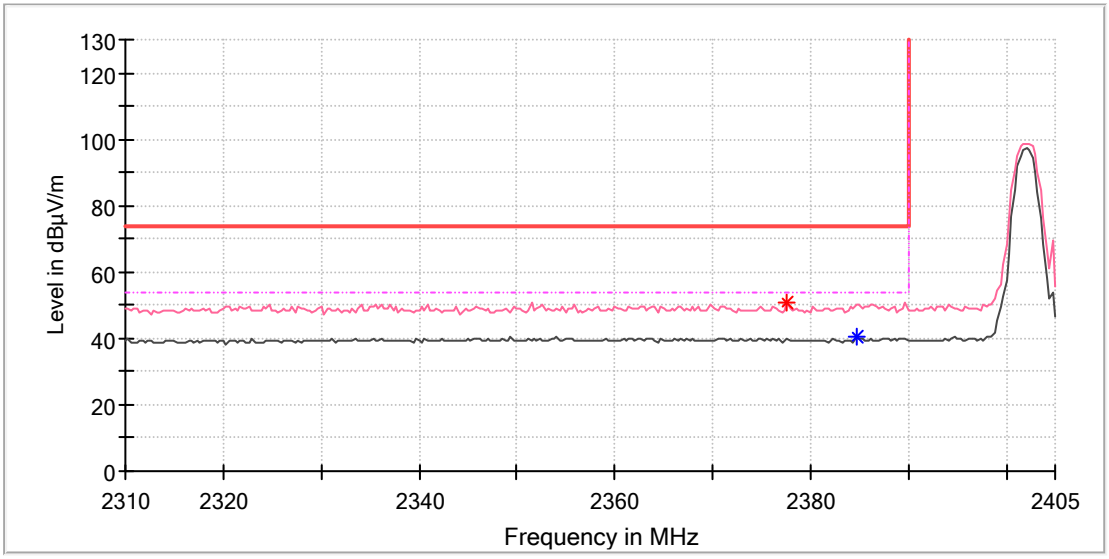
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2384.117647	51.28	---	74.00	22.72	150.0	H	259.0	8.5
2386.176471	---	40.33	54.00	13.67	150.0	H	0.0	8.5

Final_Result

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

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	RRE0VES
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168580092/A004126573-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

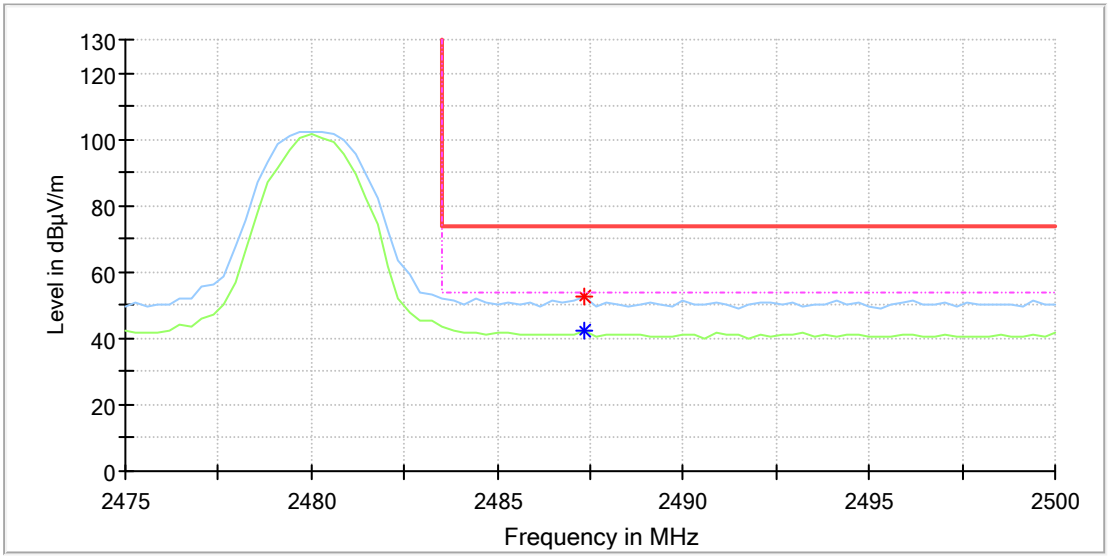
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2377.647059	51.08	---	74.00	22.92	150.0	V	89.0	8.5
2384.705882	---	40.33	54.00	13.67	150.0	V	172.0	8.5

Final_Result

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

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	RRE0VES
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168580092/A004126573-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

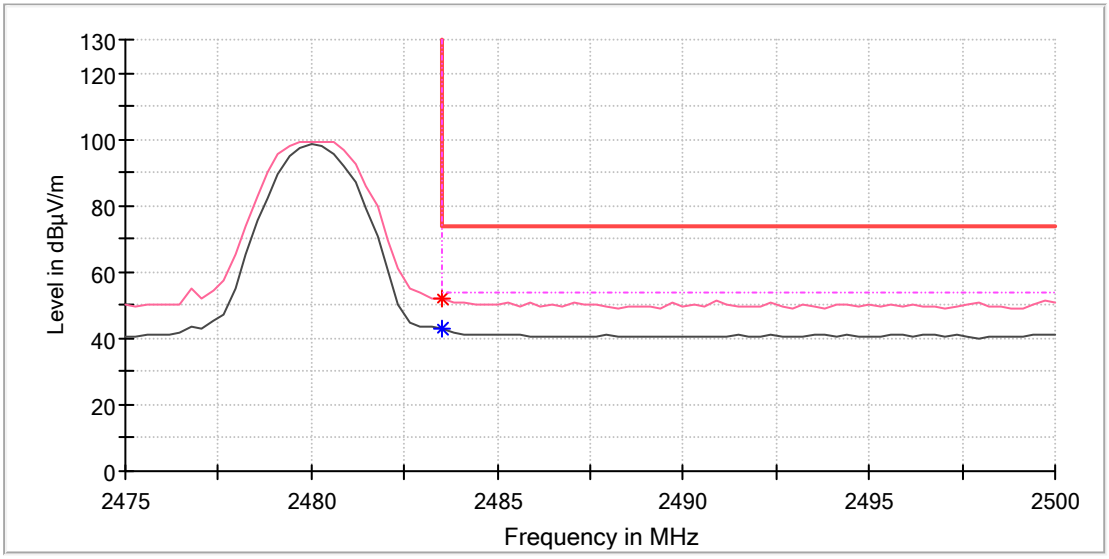
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2487.352941	---	42.03	54.00	11.97	150.0	H	193.0	9.0
2487.352941	52.53	---	74.00	21.47	150.0	H	193.0	9.0

Final_Result

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

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	RRE0VES
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168580092/A004126573-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

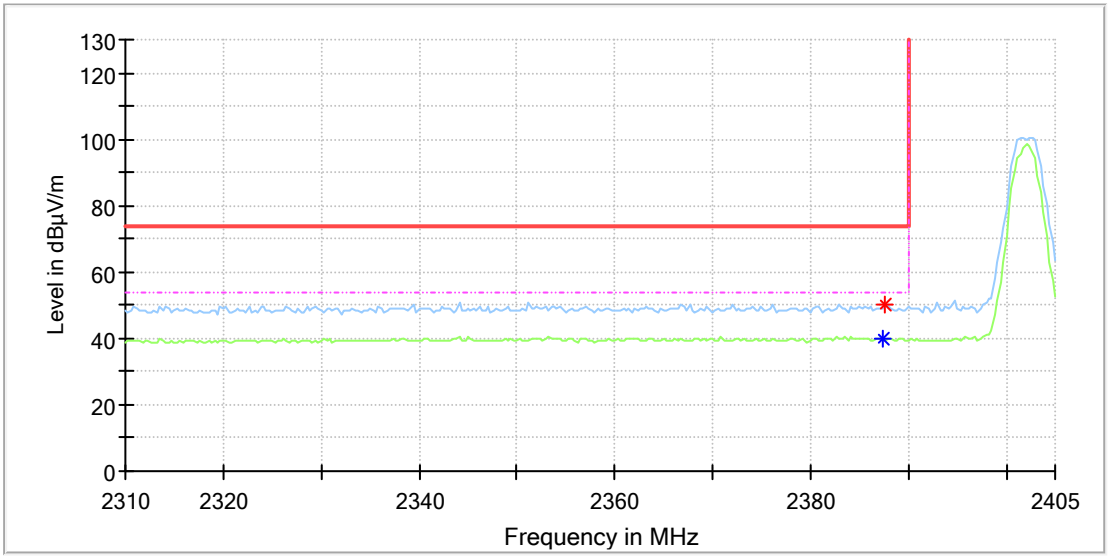
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	---	42.75	54.00	11.25	150.0	V	172.0	9.0
2483.529412	52.23	---	74.00	21.77	150.0	V	172.0	9.0

Final_Result

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

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	RRE0VES
Test Mode:	BLE 2M_Low channel
Order No/Sample No:	168580092/A004126573-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

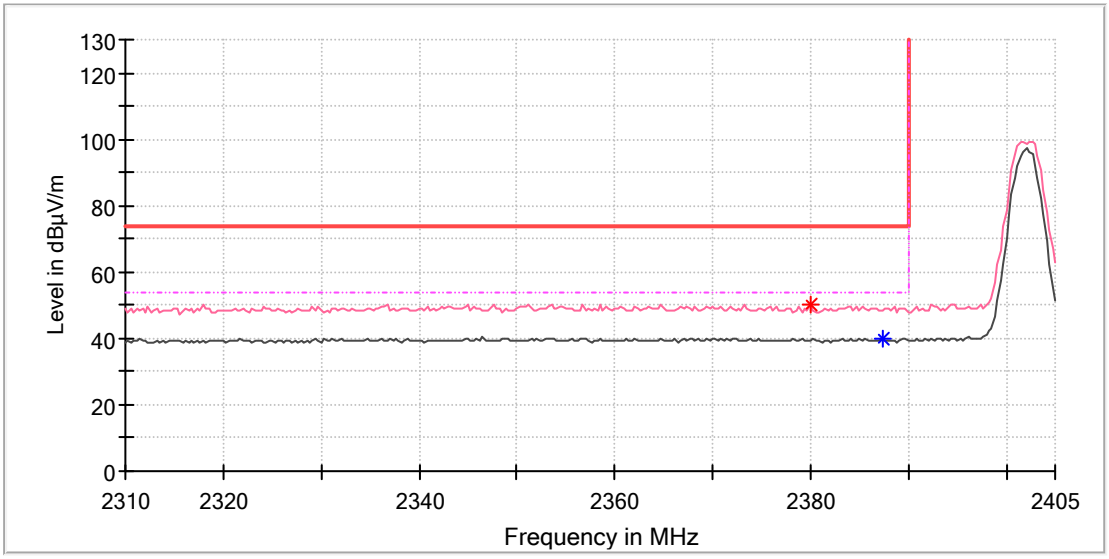
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2387.352941	---	39.76	54.00	14.24	150.0	H	276.0	8.5
2387.647059	50.32	---	74.00	23.68	150.0	H	125.0	8.5

Final_Result

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

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	RRE0VES
Test Mode:	BLE 2M_Low channel
Order No/Sample No:	168580092/A004126573-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

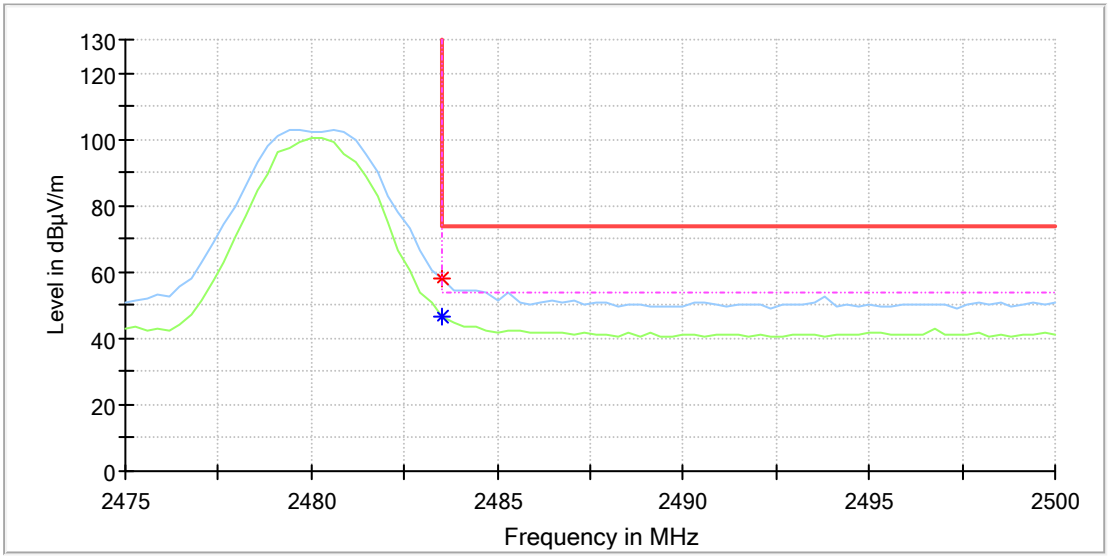
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2380.000000	50.07	---	74.00	23.93	150.0	V	52.0	8.5
2387.352941	---	39.89	54.00	14.11	150.0	V	102.0	8.5

Final_Result

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

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	RRE0VES
Test Mode:	BLE 2M_High channel
Order No/Sample No:	168580092/A004126573-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

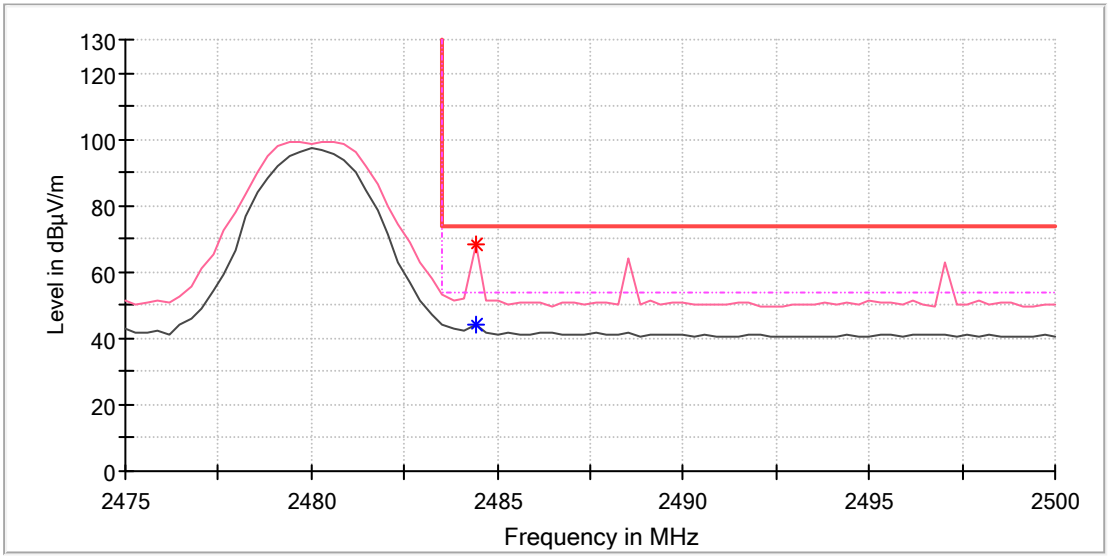
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	---	46.59	54.00	7.41	150.0	H	188.0	9.0
2483.529412	57.80	---	74.00	16.20	150.0	H	188.0	9.0

Final_Result

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

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	RRE0VES
Test Mode:	BLE 2M_High channel
Order No/Sample No:	168580092/A004126573-001
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)
2484.411765	---	43.92	54.00	10.08	150.0	V	0.0	9.0
2484.411765	68.20	---	74.00	5.80	150.0	V	0.0	9.0

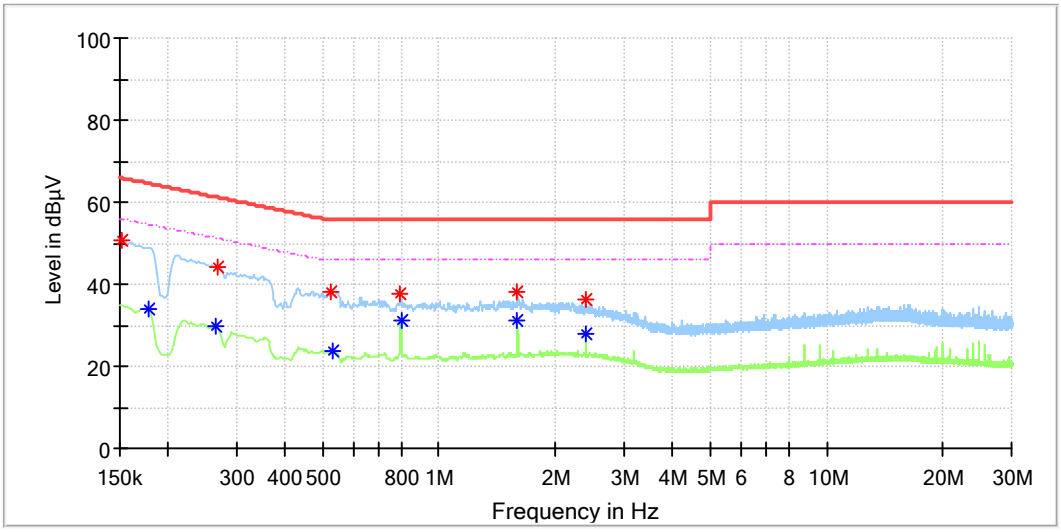
Final_Result

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

Appendix A.8: Test Results of Conducted Emission on AC Mains

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Order Number:	P02094262
Model:	RRE0VES
Test Mode:	Charging + working
Test Voltage:	AC 120V/ 60Hz
Test Standard:	FCC PART 15
Test By:/Review By:	Simon Feng / Murphy Chen
Tem./Hum./Pressure:	24.0°C/52.1%/101kPa
Remark:	SR 3



Critical_Freqs

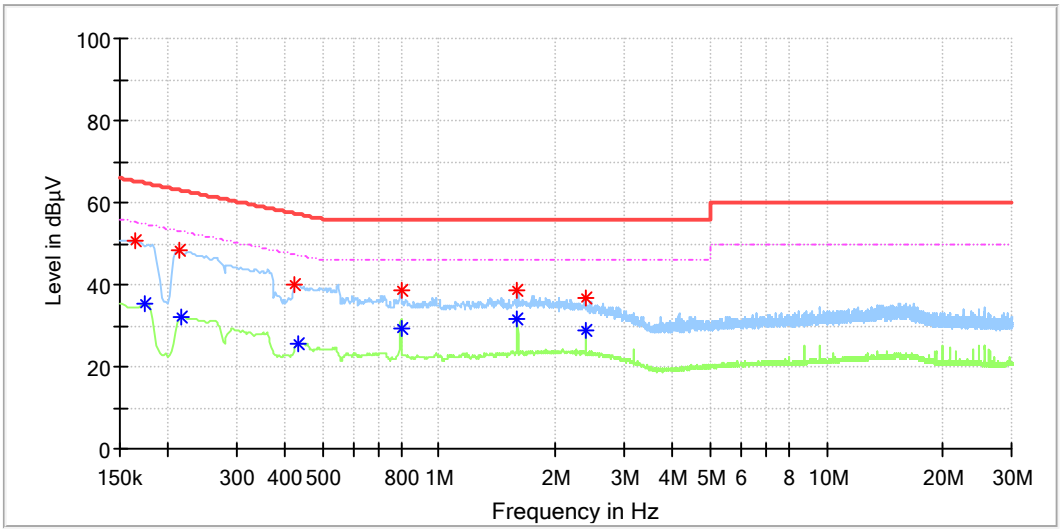
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.152	50.7	---	65.86	15.20	L1	9.5
0.177	---	33.8	54.61	20.76	L1	9.7
0.264	---	29.8	51.29	21.45	L1	9.7
0.269	44.3	---	61.14	16.82	L1	9.6
0.528	38.3	---	56.00	17.68	L1	9.5
0.533	---	23.6	46.00	22.39	L1	9.5
0.794	37.9	---	56.00	18.10	L1	9.7
0.797	---	31.1	46.00	14.91	L1	9.7
1.593	38.4	---	56.00	17.64	L1	9.6
1.593	---	31.1	46.00	14.86	L1	9.6
2.391	---	28.1	46.00	17.94	L1	9.6
2.391	36.5	---	56.00	19.51	L1	9.6

Final_Result

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

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Order Number:	P02094262
Model:	RRE0VES
Test Mode:	Charging + working
Test Voltage:	AC 120V/ 60Hz
Test Standard:	FCC PART 15
Test By:/Review By:	Simon Feng / Murphy Chen
Tem./Hum./Pressure:	24.0°C/52.1%/101kPa
Remark:	SR 3



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.165	50.5	---	65.21	14.70	N	9.8
0.175	---	35.3	54.73	19.38	N	9.8
0.215	48.2	---	63.02	14.82	N	9.9
0.217	---	32.3	52.93	20.68	N	9.9
0.424	40.2	---	57.38	17.22	N	9.9
0.431	---	25.8	47.23	21.47	N	9.9
0.797	38.7	---	56.00	17.31	N	9.8
0.799	---	29.3	46.00	16.75	N	9.8
1.593	---	31.6	46.00	14.37	N	9.9
1.593	38.7	---	56.00	17.26	N	9.9
2.391	---	28.9	46.00	17.09	N	9.9
2.391	36.9	---	56.00	19.12	N	9.9

Final_Result

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