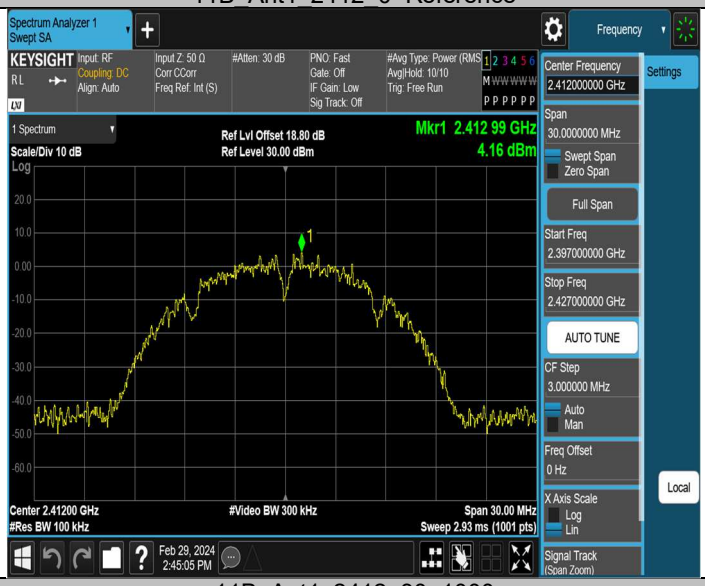
11N40SISO_Ant1_Low_2422

11N40SISO_Ant1_High_2452

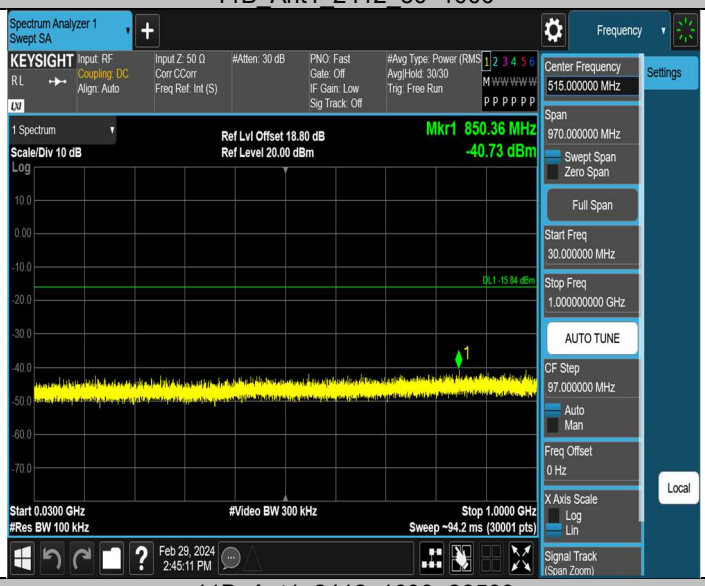
Conducted Spurious Emission

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	4.16	4.16	---	PASS
			30~1000	4.16	-40.73	≤-15.84	PASS
			1000~26500	4.16	-32.33	≤-15.84	PASS
		2437	Reference	2.63	2.63	---	PASS
			30~1000	2.63	-39.84	≤-17.37	PASS
			1000~26500	2.63	-30.06	≤-17.37	PASS
		2462	Reference	2.88	2.88	---	PASS
			30~1000	2.88	-41.64	≤-17.12	PASS
			1000~26500	2.88	-32.09	≤-17.12	PASS
11G	Ant1	2412	Reference	2.58	2.58	---	PASS
			30~1000	2.58	-40.56	≤-17.42	PASS
			1000~26500	2.58	-31.61	≤-17.42	PASS
		2437	Reference	1.87	1.87	---	PASS
			30~1000	1.87	-41.2	≤-18.13	PASS
			1000~26500	1.87	-32.21	≤-18.13	PASS
		2462	Reference	-1.44	-1.44	---	PASS
			30~1000	-1.44	-41.08	≤-21.44	PASS
			1000~26500	-1.44	-32.14	≤-21.44	PASS
11N20SISO	Ant1	2412	Reference	-0.17	-0.17	---	PASS
			30~1000	-0.17	-41.02	≤-20.17	PASS
			1000~26500	-0.17	-31.65	≤-20.17	PASS
		2437	Reference	1.42	1.42	---	PASS
			30~1000	1.42	-41.2	≤-18.58	PASS
			1000~26500	1.42	-31.94	≤-18.58	PASS
		2462	Reference	0.56	0.56	---	PASS
			30~1000	0.56	-40.78	≤-19.44	PASS
			1000~26500	0.56	-32.23	≤-19.44	PASS
11N40SISO	Ant1	2422	Reference	-0.30	-0.30	---	PASS
			30~1000	-0.30	-41.29	≤-20.3	PASS
			1000~26500	-0.30	-31.72	≤-20.3	PASS
		2437	Reference	-1.44	-1.44	---	PASS
			30~1000	-1.44	-41.51	≤-21.44	PASS
			1000~26500	-1.44	-31.59	≤-21.44	PASS
		2452	Reference	-1.14	-1.14	---	PASS
			30~1000	-1.14	-41.37	≤-21.14	PASS
			1000~26500	-1.14	-32.11	≤-21.14	PASS

11B_Ant1_2412_0~Reference

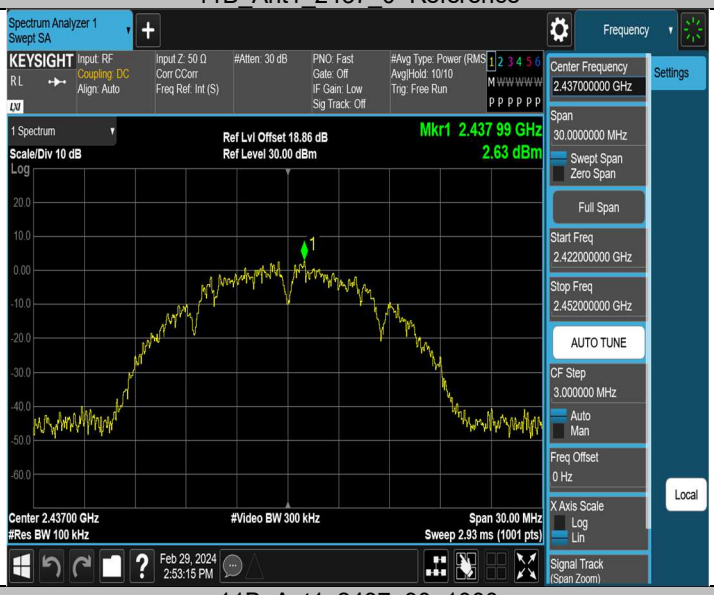


11B_Ant1_2412_30~1000

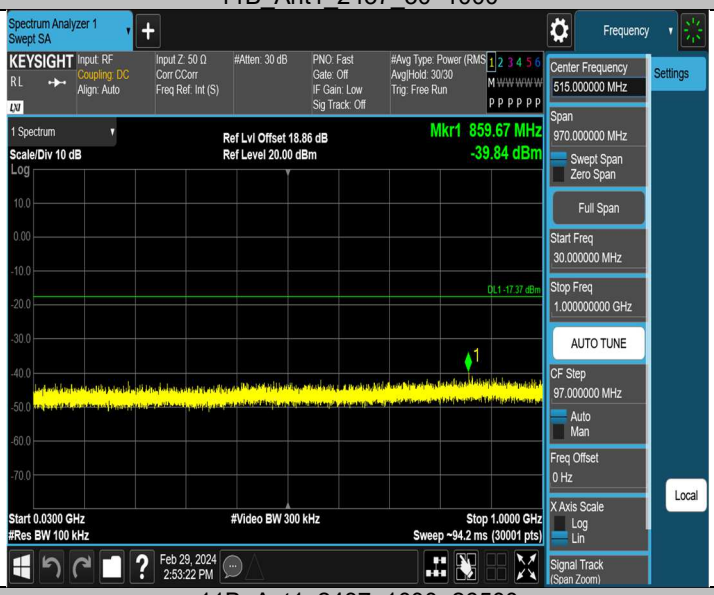


11B_Ant1_2412_1000~26500

11B_Ant1_2437_0~Reference



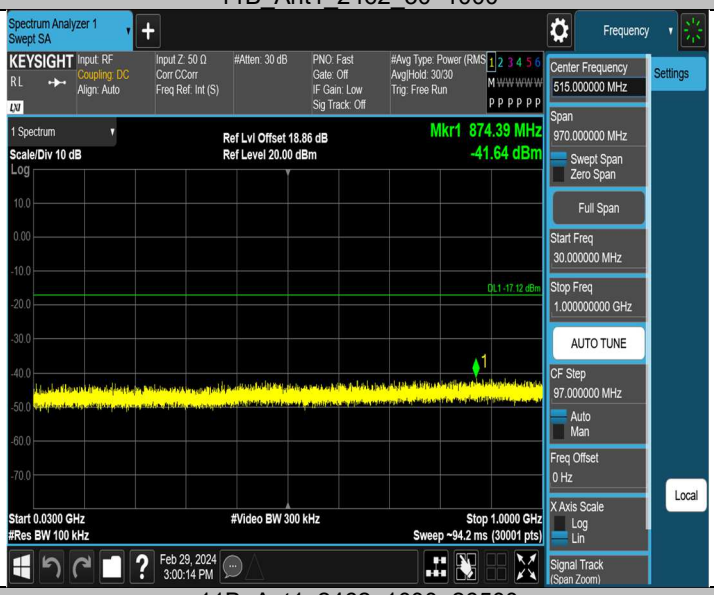
11B_Ant1_2437_30~1000



11B_Ant1_2437_1000~26500

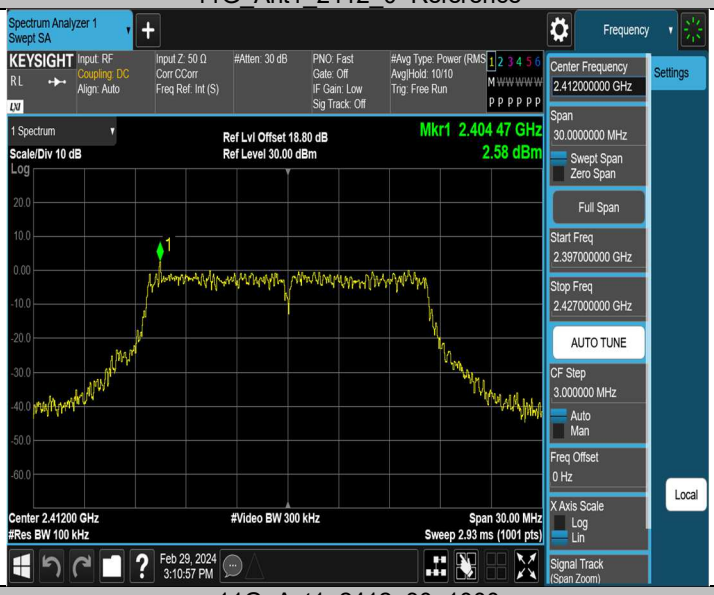
11B_Ant1_2462_0~Reference

11B_Ant1_2462_30~1000



11B_Ant1_2462_1000~26500

11G_Ant1_2412_0~Reference



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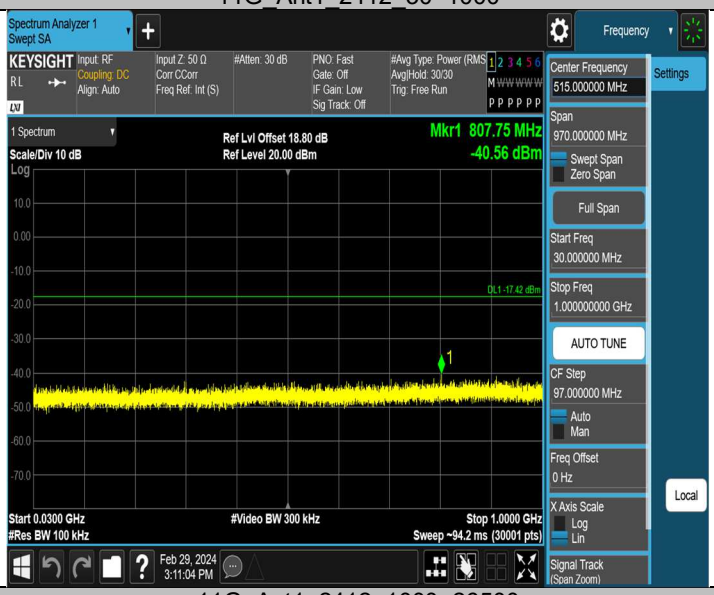
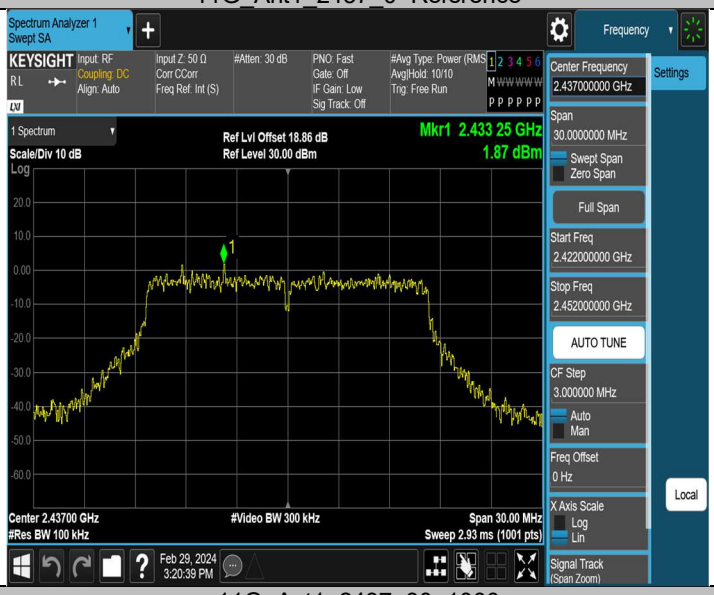
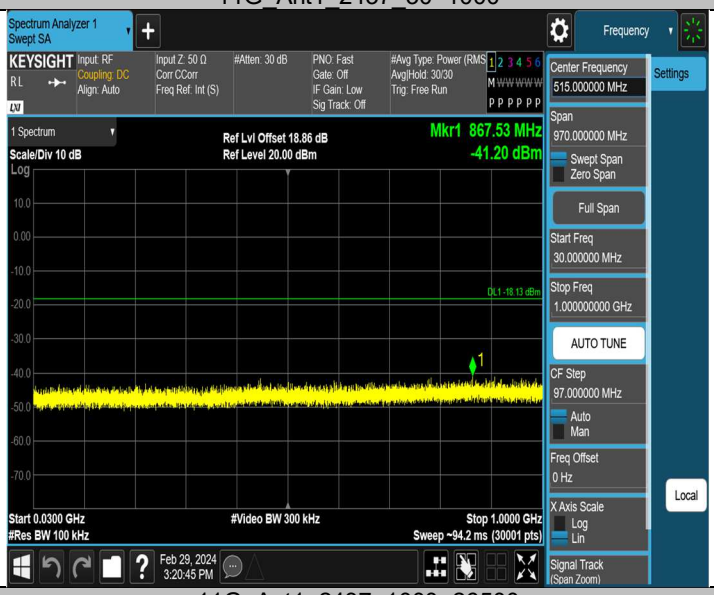


11G_Ant1_2412_1000~26500

11G_Ant1_2437_0~Reference

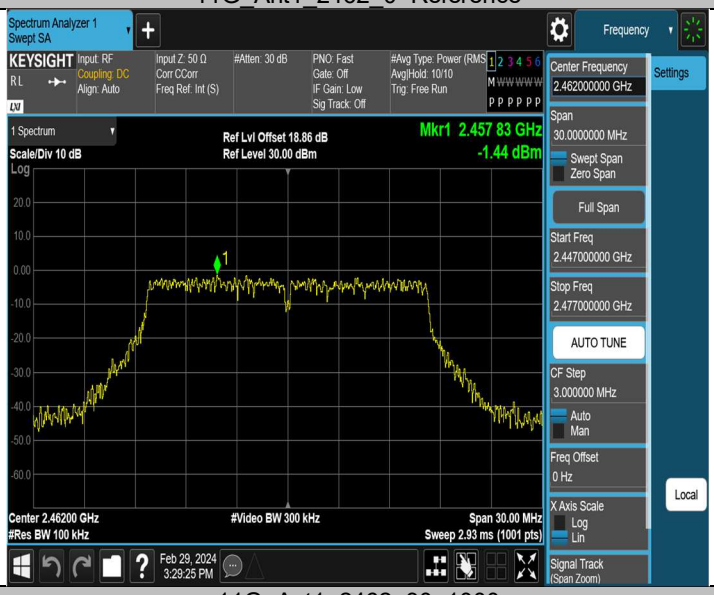


11G_Ant1_2437_30~1000

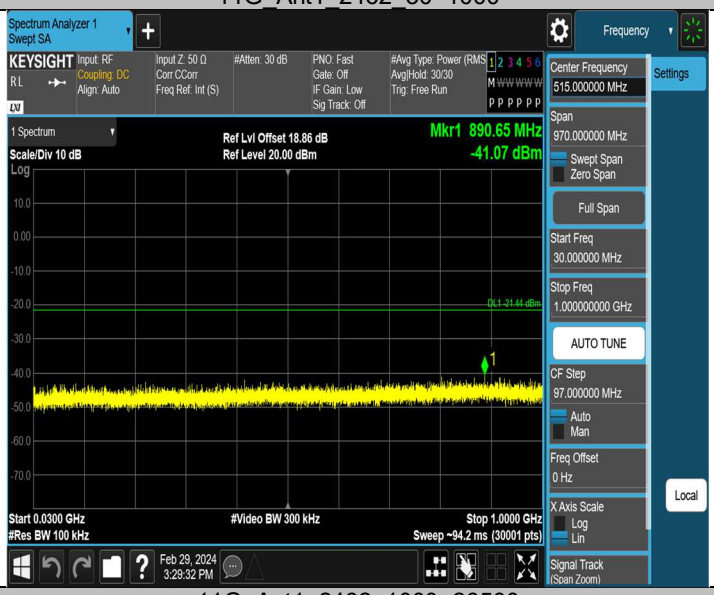


11G_Ant1_2437_1000~26500

11G_Ant1_2462_0~Reference

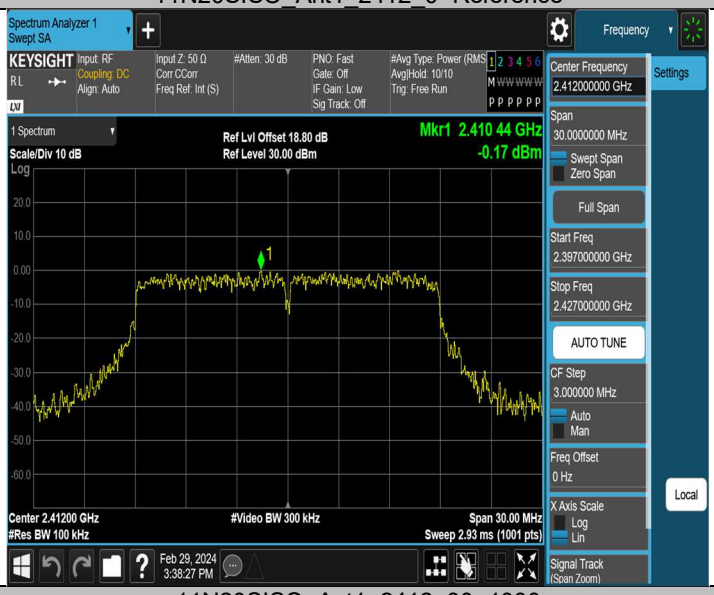


11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500

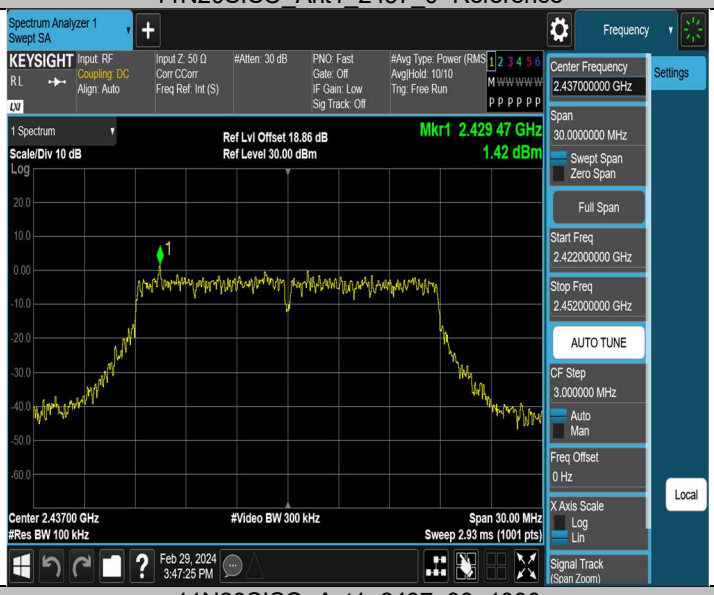
11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

11N20SISO_Ant1_2412_1000~26500

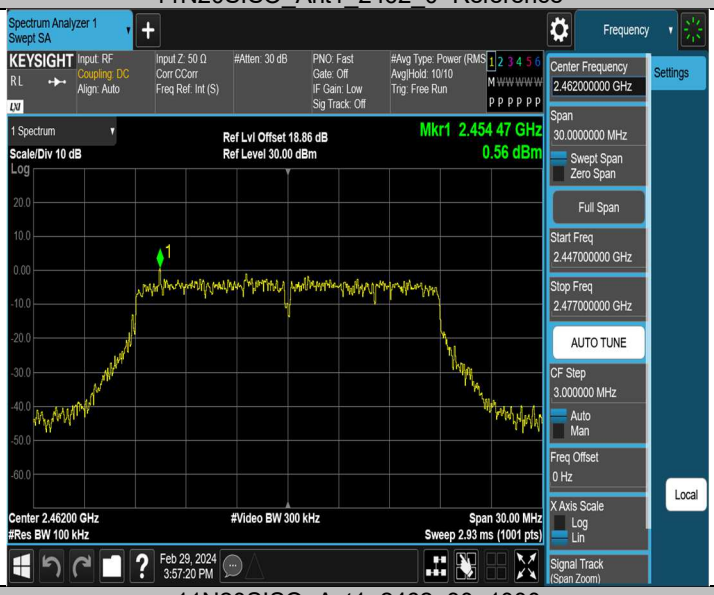
11N20SISO_Ant1_2437_0~Reference



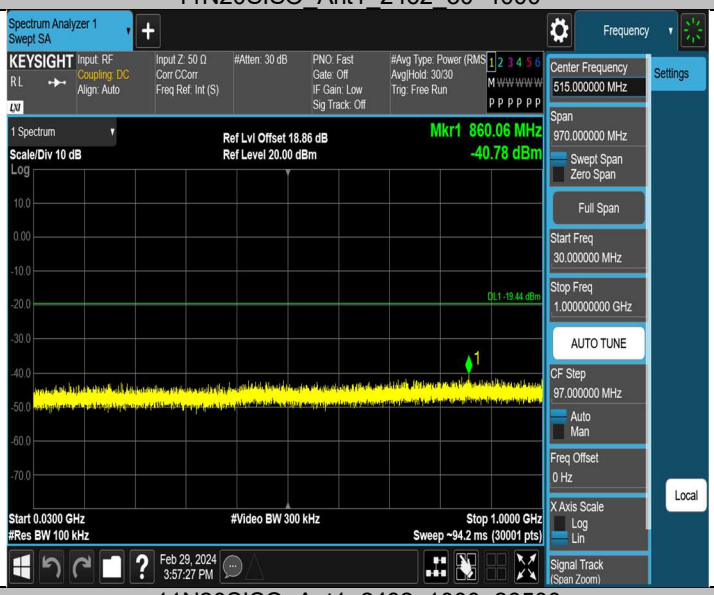
11N20SISO_Ant1_2437_30~1000

11N20SISO_Ant1_2437_1000~26500

11N20SISO_Ant1_2462_0~Reference

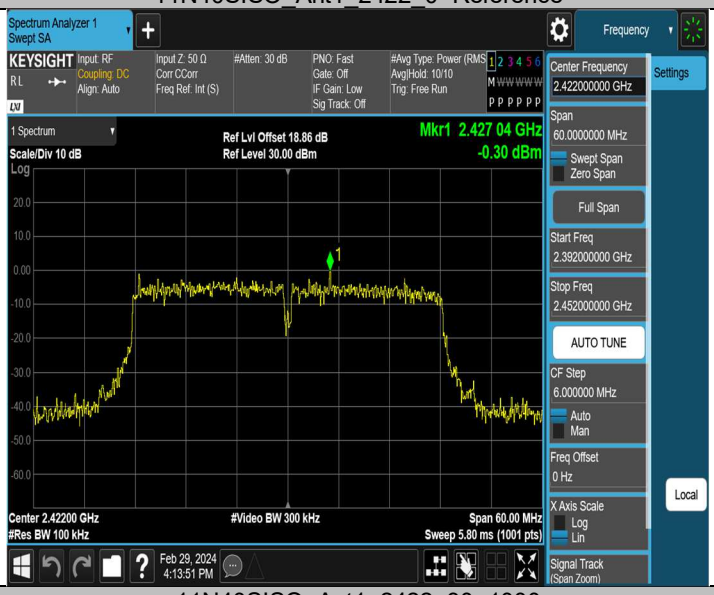


11N20SISO_Ant1_2462_30~1000

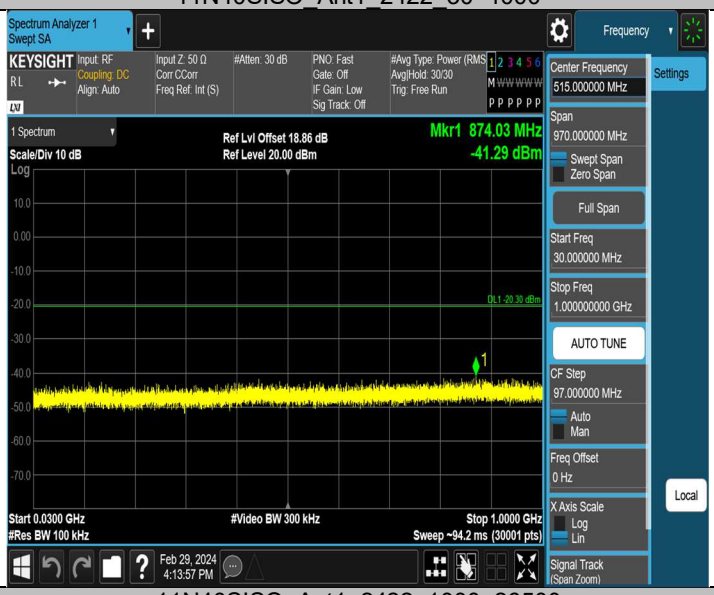


11N20SISO_Ant1_2462_1000~26500

11N40SISO_Ant1_2422_0~Reference

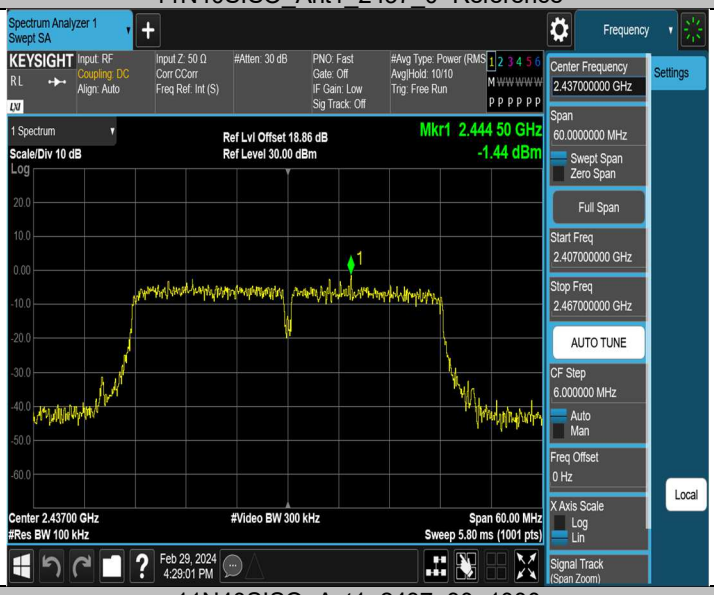


11N40SISO_Ant1_2422_30~1000

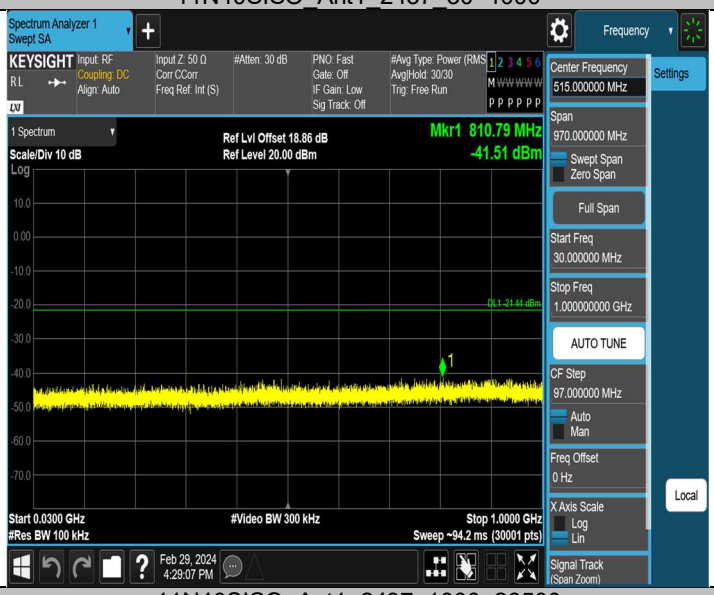


11N40SISO_Ant1_2422_1000~26500

11N40SISO_Ant1_2437_0~Reference

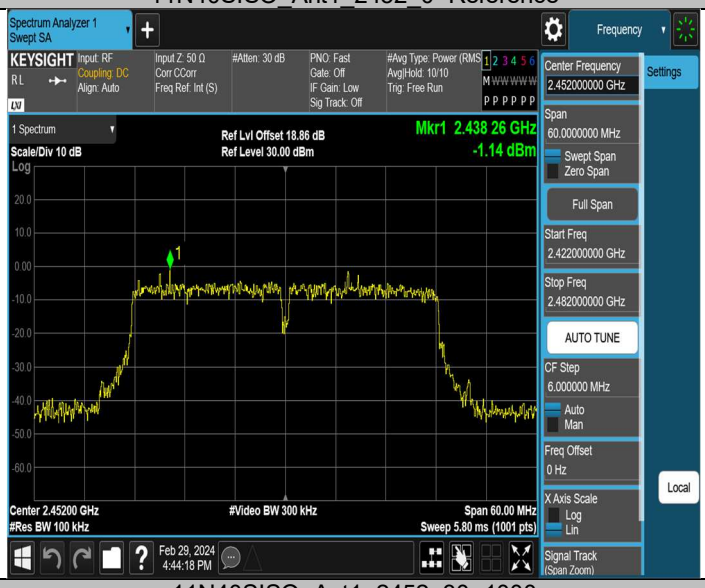


11N40SISO_Ant1_2437_30~1000

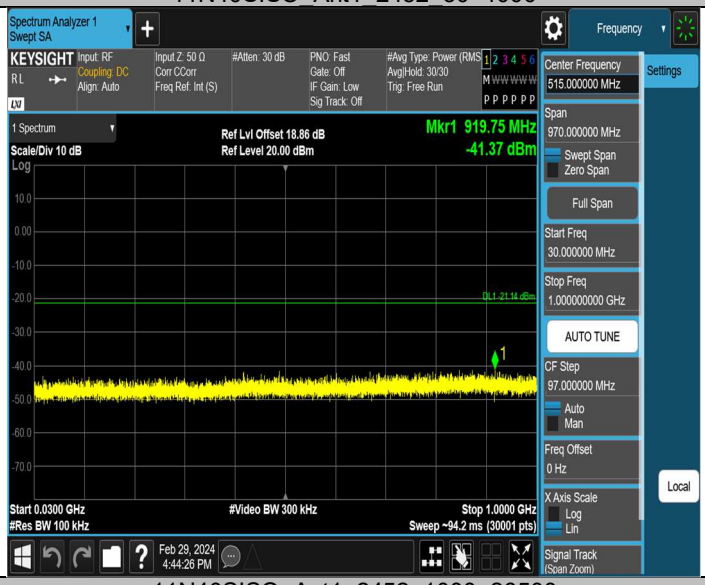


11N40SISO_Ant1_2437_1000~26500

11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000



11N40SISO_Ant1_2452_1000~26500

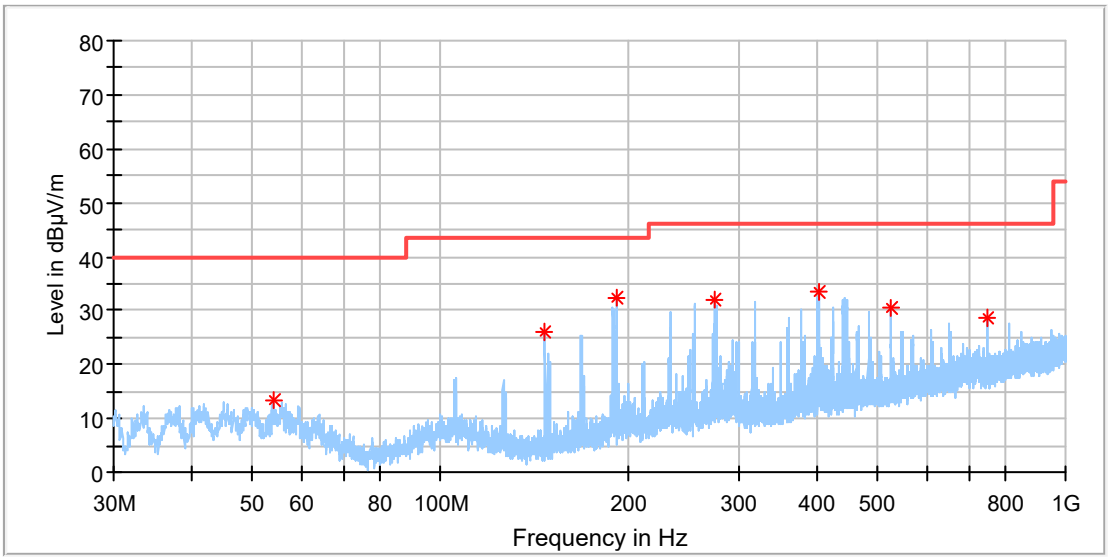
Appendix A.6: Test Results of Radiated Spurious Emissions

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.

30MHz - 1GHz (Worst case)

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	NER J20 Ultra
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168468654/A003649235-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

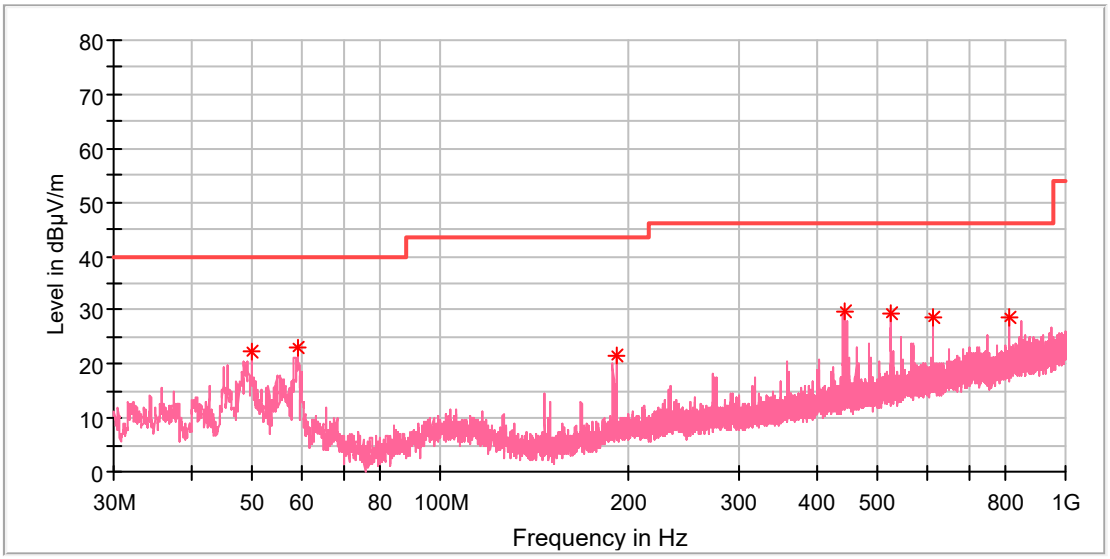


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
53.951539	13.40	40.00	26.60	100.0	H	173.0	-18.7
147.183462	25.99	43.50	17.51	100.0	H	239.0	-22.6
191.169231	32.55	43.50	10.95	100.0	H	248.0	-19.8
275.298077	31.90	46.00	14.10	100.0	H	204.0	-17.2
403.524615	33.61	46.00	12.39	100.0	H	1.0	-14.0
525.520769	30.56	46.00	15.44	100.0	H	12.0	-11.7
750.075769	28.79	46.00	17.21	100.0	H	274.0	-7.6

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	NER J20 Ultra
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168468654/A003649235-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

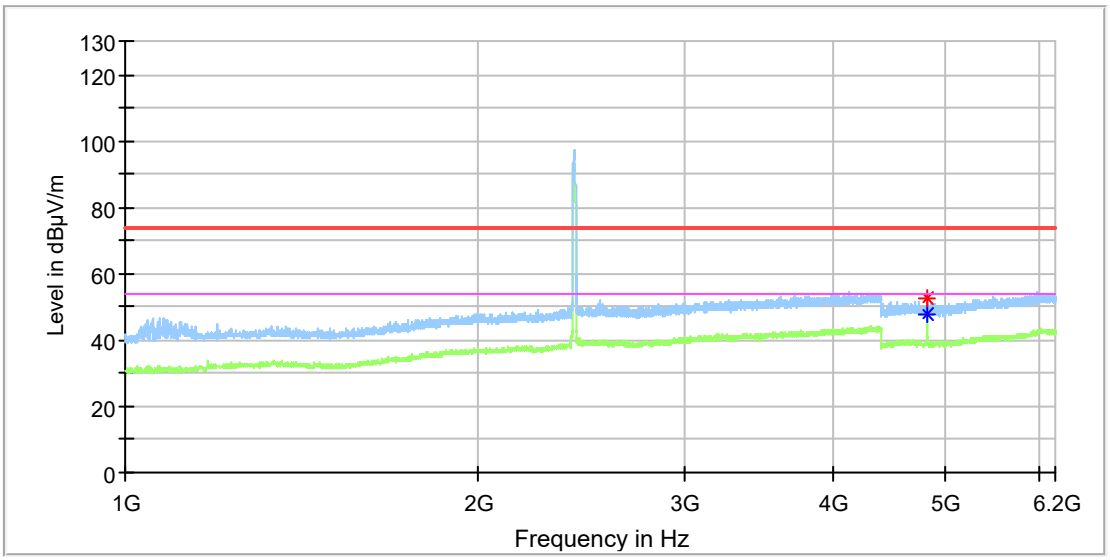
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.996923	22.35	40.00	17.65	100.0	V	0.0	-18.6
59.211923	22.95	40.00	17.05	100.0	V	106.0	-19.2
191.131923	21.52	43.50	21.98	100.0	V	3.0	-19.8
444.637692	29.74	46.00	16.26	100.0	V	284.0	-13.4
525.446154	29.53	46.00	16.47	100.0	V	284.0	-11.8
614.051923	28.81	46.00	17.19	100.0	V	138.0	-10.0
816.035769	28.79	46.00	17.21	100.0	V	300.0	-6.4

1GHz - 18GHz

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

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	NER J20 Ultra
Test Mode:	WIFI 2.4G_11b_Ch1
Order No/Sample No:	168468654/A003649235-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

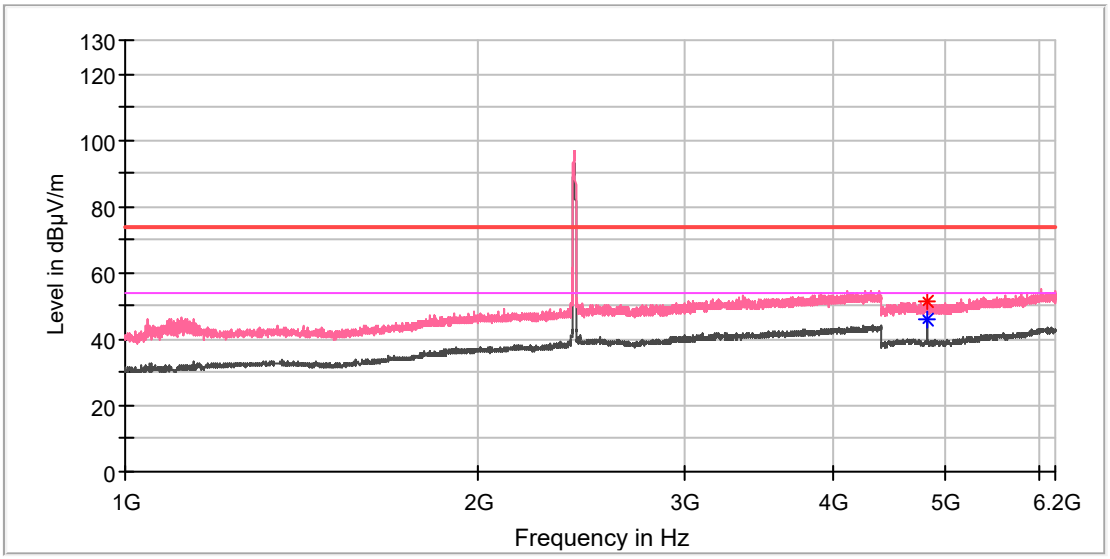
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4824.000000	52.42	---	74.00	21.58	150.0	H	131.0	11.8
4824.000000	---	47.58	54.00	6.42	150.0	H	131.0	11.8

Final_Result

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

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	NER J20 Ultra
Test Mode:	WIFI 2.4G_11b_Ch1
Order No/Sample No:	168468654/A003649235-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

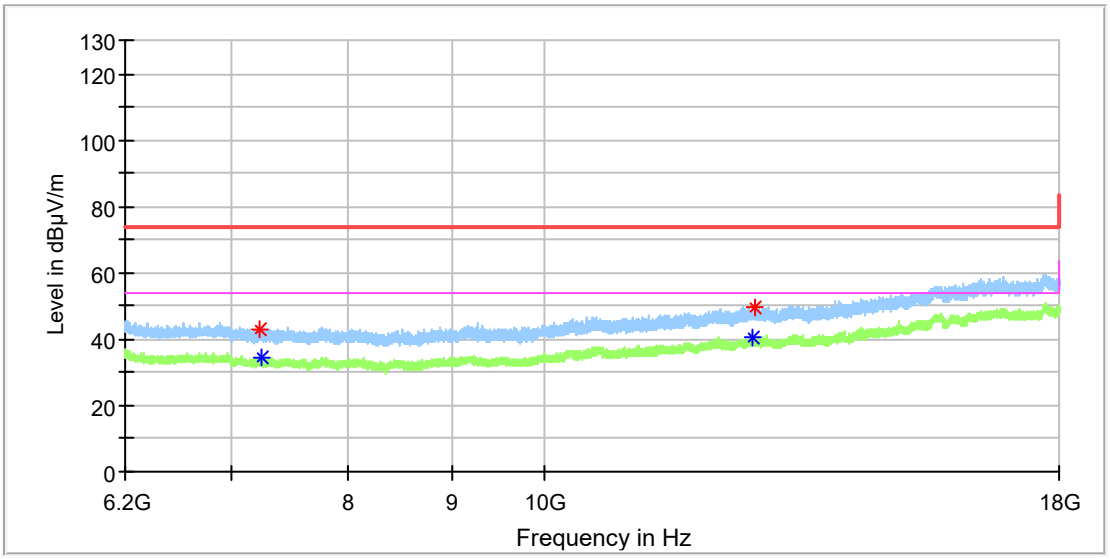
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4824.000000	51.16	---	74.00	22.84	150.0	V	7.0	11.8
4824.000000	---	45.67	54.00	8.33	150.0	V	7.0	11.8

Final_Result

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

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	NER J20 Ultra
Test Mode:	WIFI 2.4G_11b_Ch1
Order No/Sample No:	168468654/A003649235-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

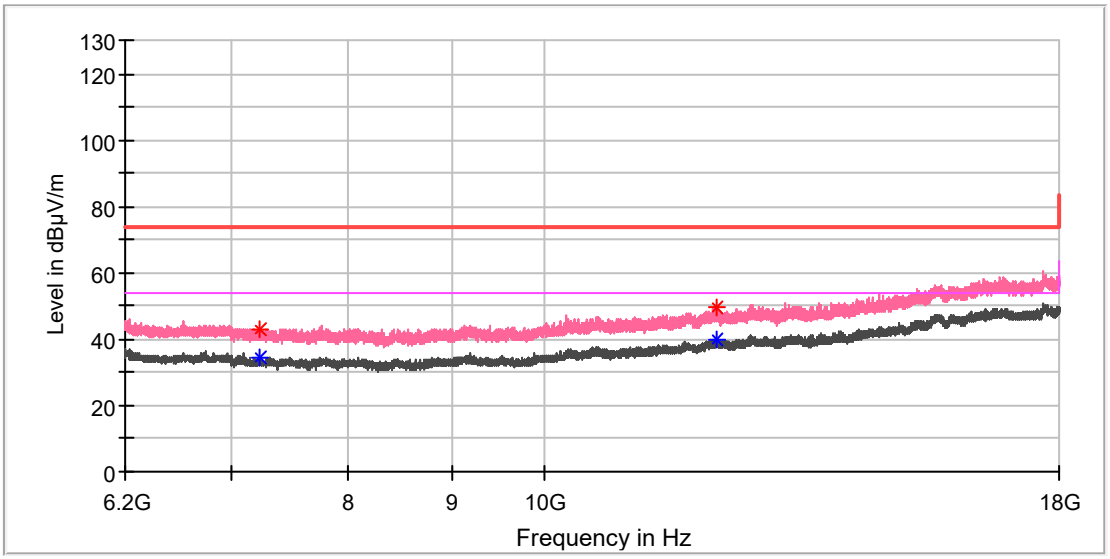
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7232.008333	42.96	---	74.00	31.04	150.0	H	35.0	8.6
7236.433333	---	34.42	54.00	19.58	150.0	H	48.0	8.6
12681.641667	---	40.55	54.00	13.45	150.0	H	156.0	15.1
12705.241667	49.75	---	74.00	24.25	150.0	H	23.0	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:	Robot Vacuum Cleaner
Model:	NER J20 Ultra
Test Mode:	WIFI 2.4G_11b_Ch1
Order No/Sample No:	168468654/A003649235-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

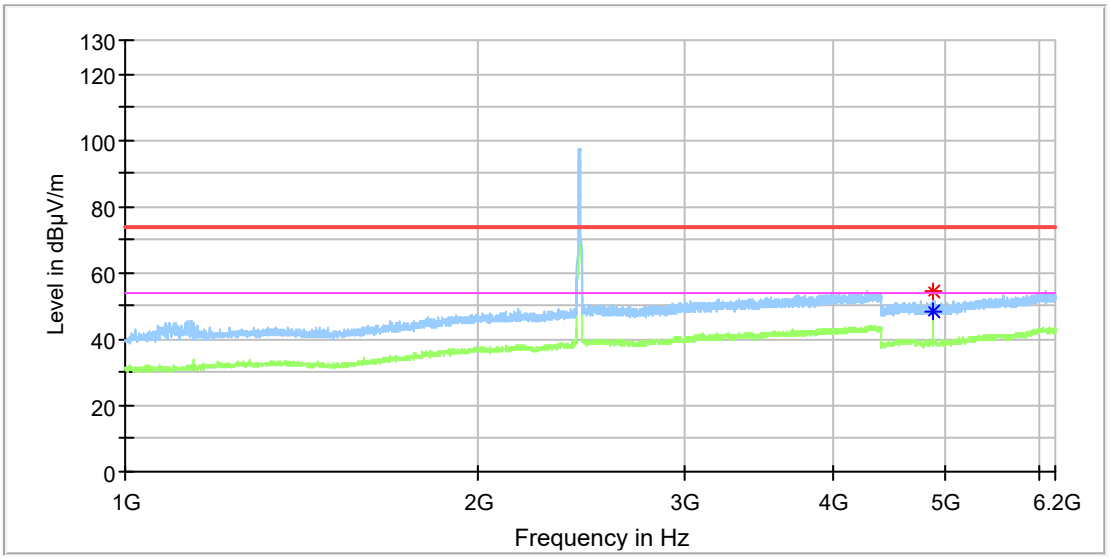
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7229.058333	43.22	---	74.00	30.78	150.0	V	352.0	8.6
7233.975000	---	34.66	54.00	19.34	150.0	V	221.0	8.6
12167.358333	49.37	---	74.00	24.63	150.0	V	221.0	14.5
12181.125000	---	40.20	54.00	13.80	150.0	V	221.0	14.6

Final_Result

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

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	NER J20 Ultra
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168468654/A003649235-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

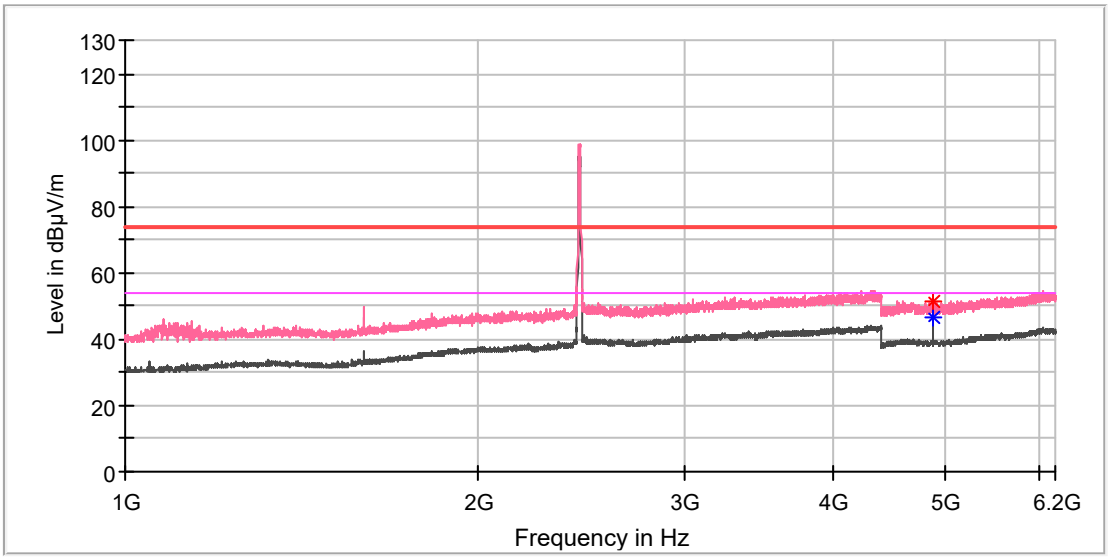
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4874.000000	54.16	---	74.00	19.84	150.0	H	146.0	11.8
4874.000000	---	48.51	54.00	5.49	150.0	H	146.0	11.8

Final_Result

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

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	NER J20 Ultra
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168468654/A003649235-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

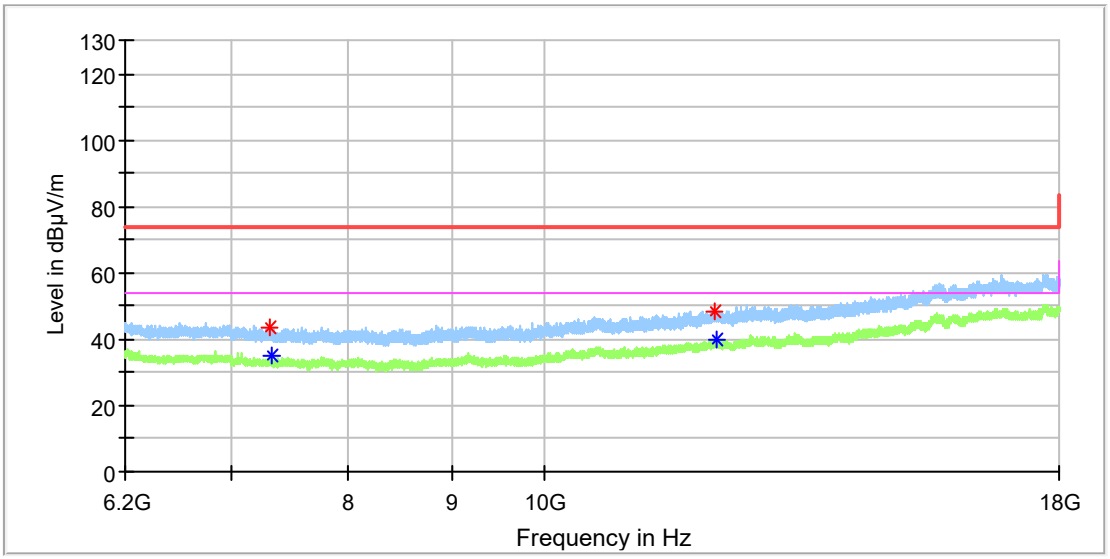
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4874.000000	51.63	---	74.00	22.37	150.0	V	17.0	11.8
4874.000000	---	46.63	54.00	7.37	150.0	V	17.0	11.8

Final_Result

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

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	NER J20 Ultra
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168468654/A003649235-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

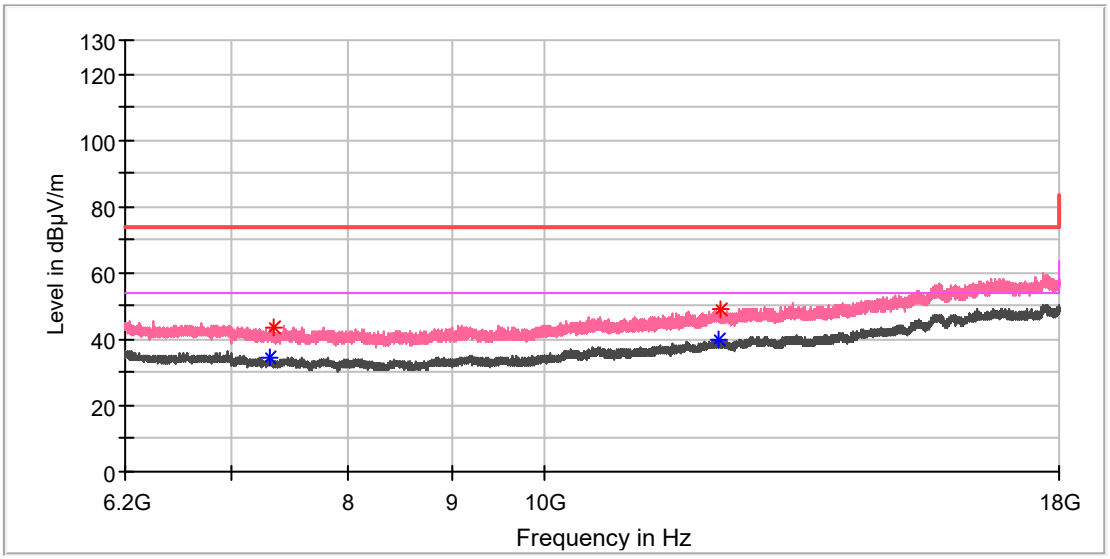
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7316.083333	43.64	---	74.00	30.36	150.0	H	208.0	8.2
7319.033333	---	34.88	54.00	19.12	150.0	H	220.0	8.2
12136.875000	48.64	---	74.00	25.36	150.0	H	359.0	14.3
12177.683333	---	39.74	54.00	14.26	150.0	H	329.0	14.6

Final_Result

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

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	NER J20 Ultra
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168468654/A003649235-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
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)
7313.625000	---	34.55	54.00	19.45	150.0	V	48.0	8.2
7340.666667	43.47	---	74.00	30.53	150.0	V	109.0	8.1
12189.975000	---	39.85	54.00	14.15	150.0	V	11.0	14.6
12242.583333	48.97	---	74.00	25.03	150.0	V	265.0	14.7

Final_Result

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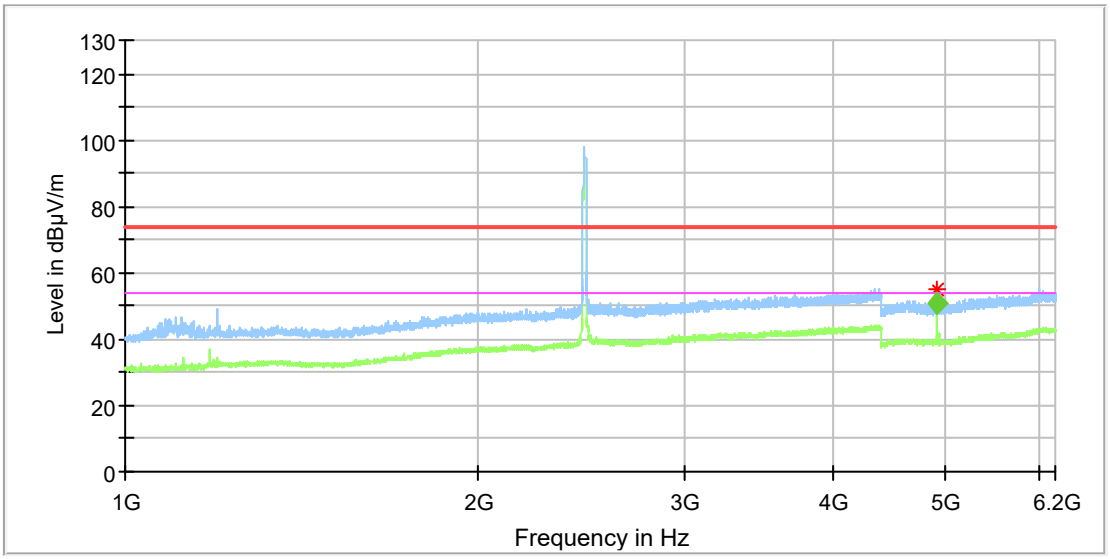
EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	NER J20 Ultra
Test Mode:	WIFI 2.4G_11b_Ch11
Order No/Sample No:	168468654/A003649235-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

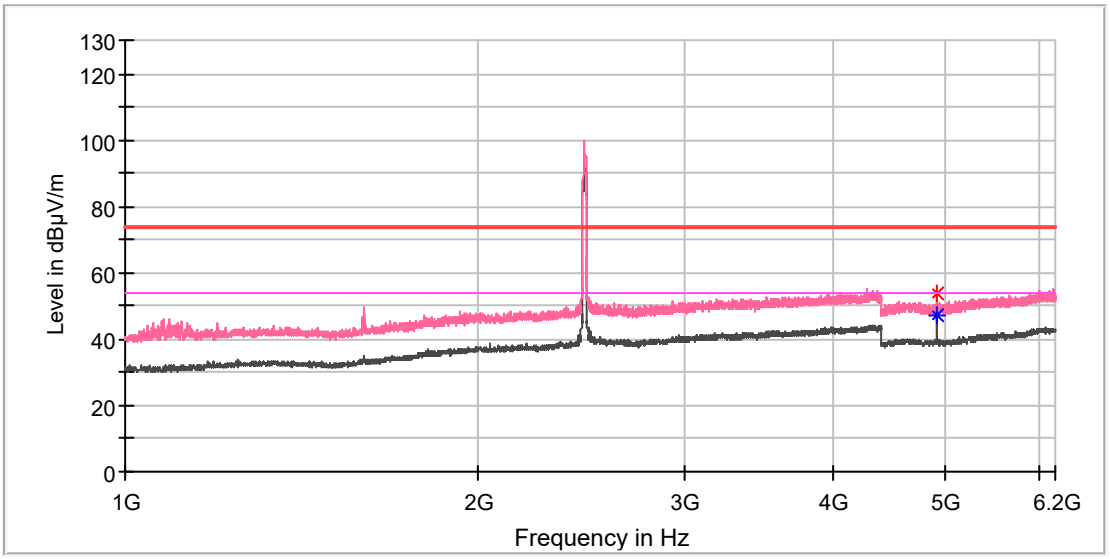
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4924.000000	55.13	---	74.00	18.87	150.0	H	127.0	11.8

Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4923.941667	50.81	54.00	3.19	150.0	H	125.0	11.8

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	NER J20 Ultra
Test Mode:	WIFI 2.4G_11b_Ch11
Order No/Sample No:	168468654/A003649235-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
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	54.06	---	74.00	19.94	150.0	V	16.0	11.8
4924.000000	---	47.05	54.00	6.95	150.0	V	16.0	11.8

Final_Result

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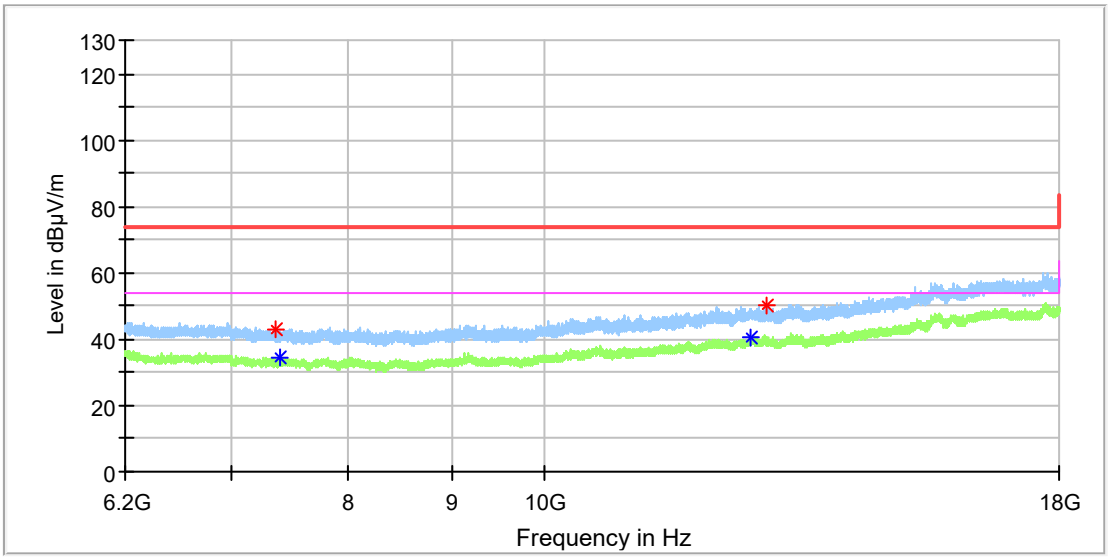
EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	NER J20 Ultra
Test Mode:	WIFI 2.4G_11b_Ch11
Order No/Sample No:	168468654/A003649235-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

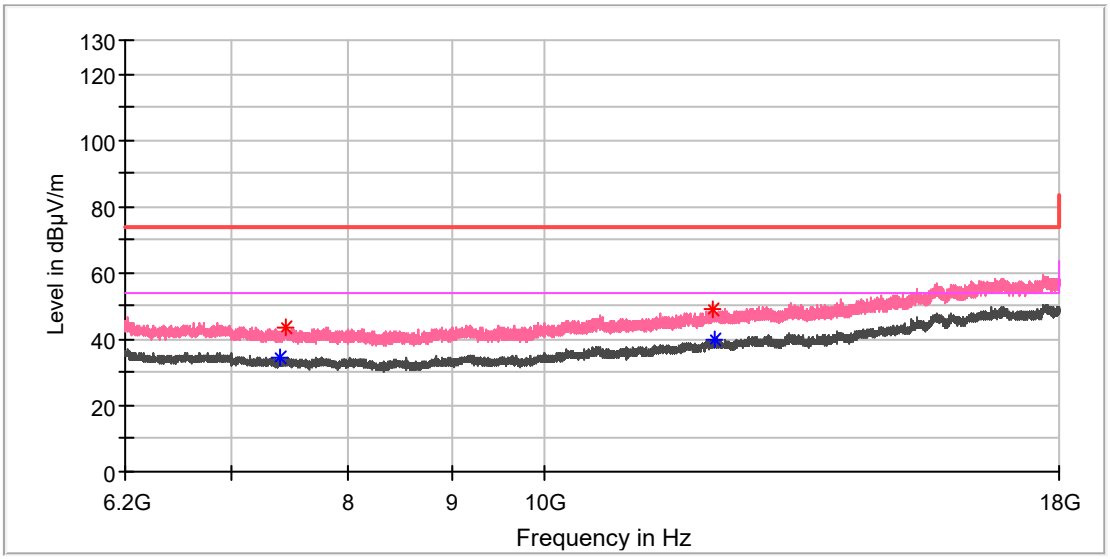
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7358.366667	42.83	---	74.00	31.17	150.0	H	216.0	8.1
7387.375000	---	34.64	54.00	19.36	150.0	H	86.0	8.2
12657.058333	---	40.58	54.00	13.42	150.0	H	170.0	15.0
12891.583333	50.39	---	74.00	23.61	150.0	H	27.0	15.5

Final_Result

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

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	NER J20 Ultra
Test Mode:	WIFI 2.4G_11b_Ch11
Order No/Sample No:	168468654/A003649235-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
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)
7386.883333	---	34.64	54.00	19.36	150.0	V	85.0	8.2
7443.425000	43.33	---	74.00	30.67	150.0	V	348.0	8.5
12120.158333	48.95	---	74.00	25.05	150.0	V	170.0	14.3
12141.791667	---	40.13	54.00	13.87	150.0	V	264.0	14.4

Final_Result

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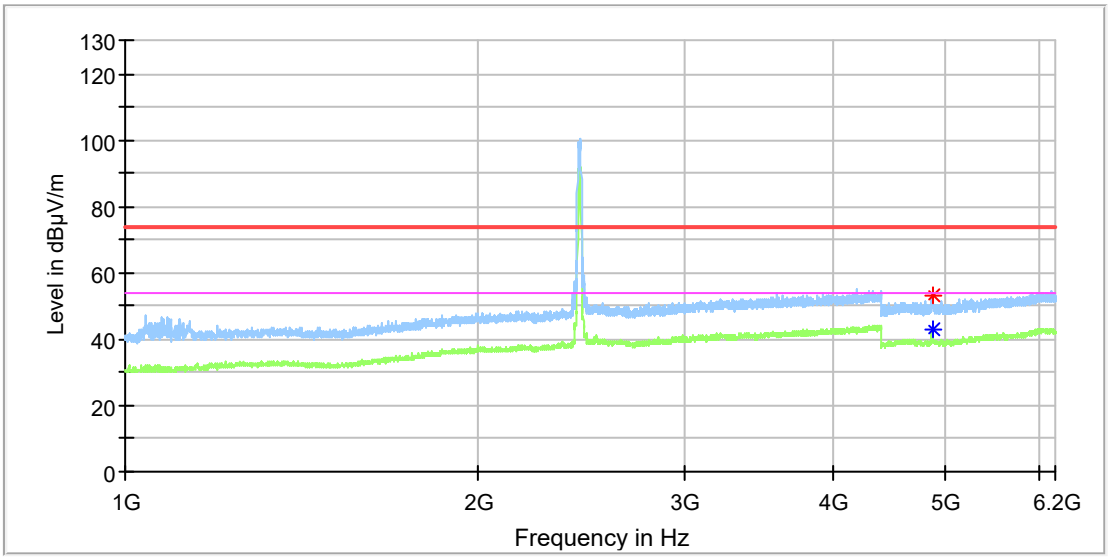
EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	NER J20 Ultra
Test Mode:	WIFI 2.4G_11g_Ch6
Order No/Sample No:	168468654/A003649235-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
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)
4872.500000	53.48	---	74.00	20.52	150.0	H	0.0	11.8
4873.500000	---	43.07	54.00	10.93	150.0	H	172.0	11.8

Final_Result

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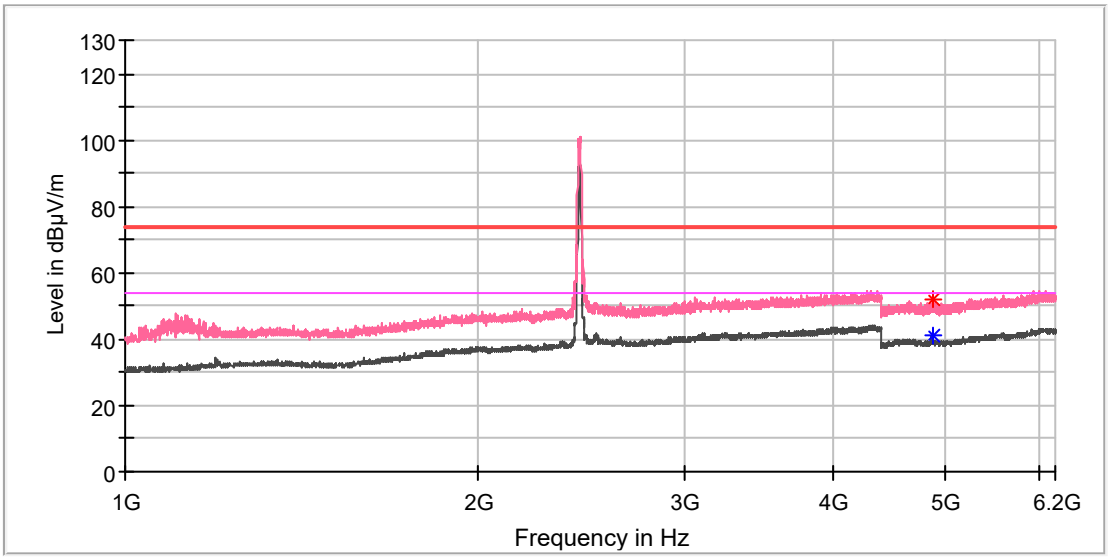
EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	NER J20 Ultra
Test Mode:	WIFI 2.4G_11g_Ch6
Order No/Sample No:	168468654/A003649235-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
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)
4870.000000	---	41.15	54.00	12.85	150.0	V	18.0	11.8
4874.000000	52.15	---	74.00	21.85	150.0	V	6.0	11.8

Final_Result

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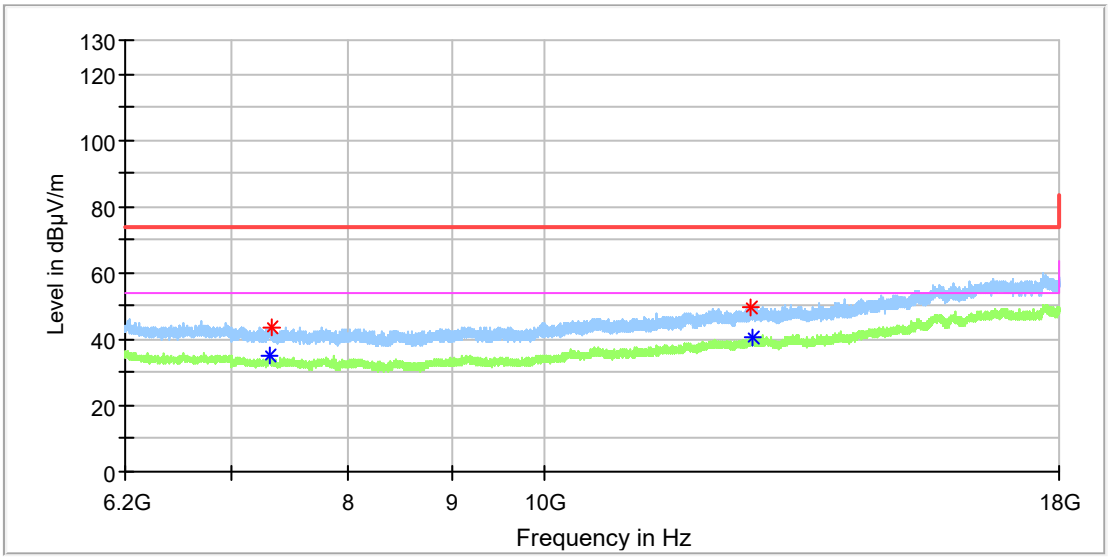
EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	NER J20 Ultra
Test Mode:	WIFI 2.4G_11g_Ch6
Order No/Sample No:	168468654/A003649235-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

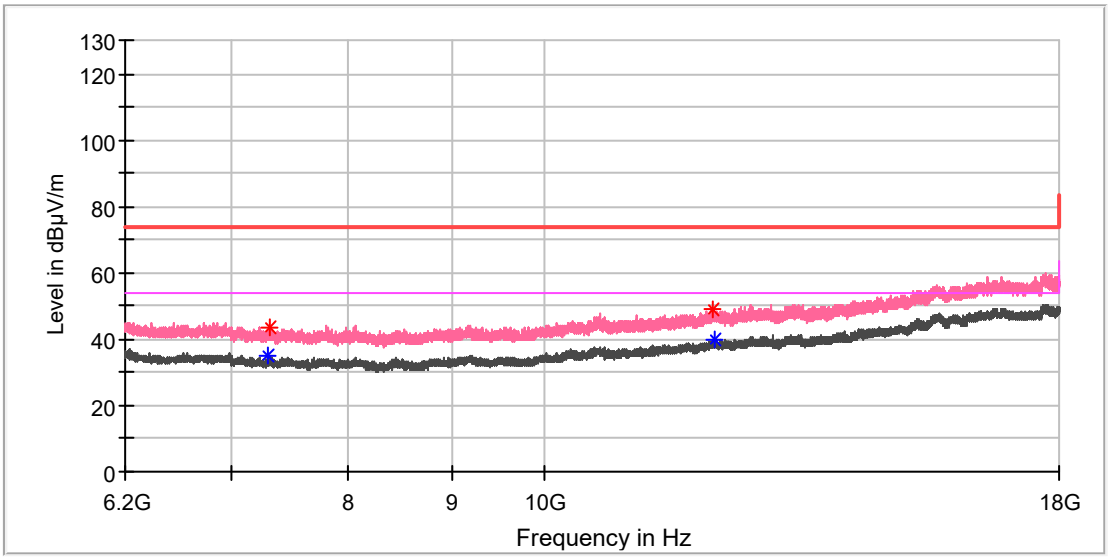
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7316.083333	---	35.06	54.00	18.94	150.0	H	208.0	8.2
7321.983333	43.24	---	74.00	30.76	150.0	H	359.0	8.2
12654.600000	49.84	---	74.00	24.16	150.0	H	359.0	15.0
12683.116667	---	40.50	54.00	13.50	150.0	H	352.0	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:	Robot Vacuum Cleaner
Model:	NER J20 Ultra
Test Mode:	WIFI 2.4G_11g_Ch6
Order No/Sample No:	168468654/A003649235-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
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)
7298.875000	---	35.10	54.00	18.90	150.0	V	0.0	8.3
7309.691667	43.39	---	74.00	30.61	150.0	V	342.0	8.2
12121.141667	48.75	---	74.00	25.25	150.0	V	277.0	14.3
12135.400000	---	39.84	54.00	14.16	150.0	V	107.0	14.3

Final_Result

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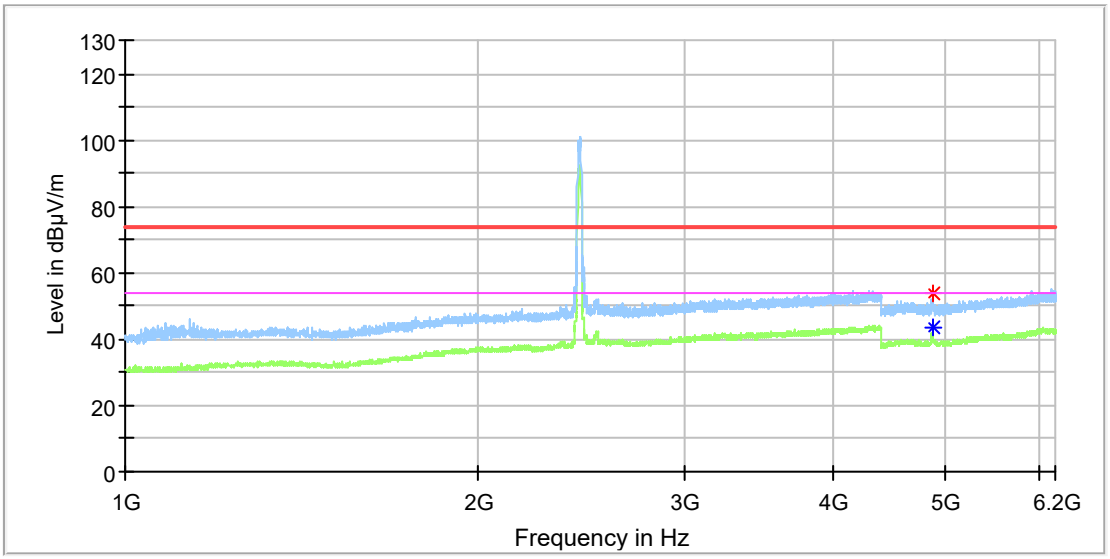
EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	NER J20 Ultra
Test Mode:	WIFI 2.4G_11n20_Ch6
Order No/Sample No:	168468654/A003649235-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

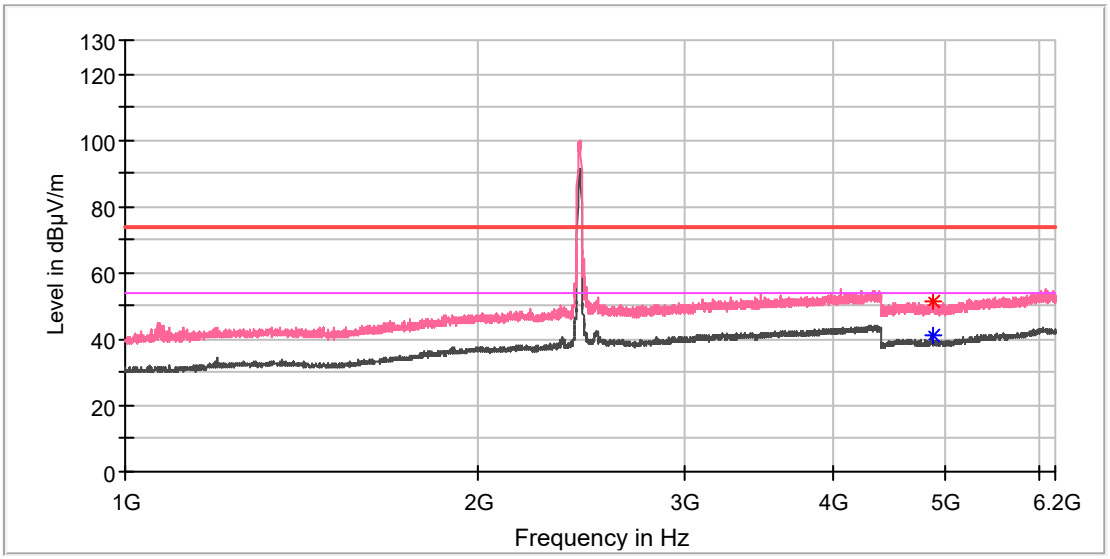
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4869.000000	---	43.26	54.00	10.74	150.0	H	13.0	11.8
4880.500000	53.73	---	74.00	20.27	150.0	H	184.0	11.8

Final_Result

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

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	NER J20 Ultra
Test Mode:	WIFI 2.4G_11n20_Ch6
Order No/Sample No:	168468654/A003649235-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
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)
4874.500000	---	41.00	54.00	13.00	150.0	V	15.0	11.8
4875.000000	51.14	---	74.00	22.86	150.0	V	10.0	11.8

Final_Result

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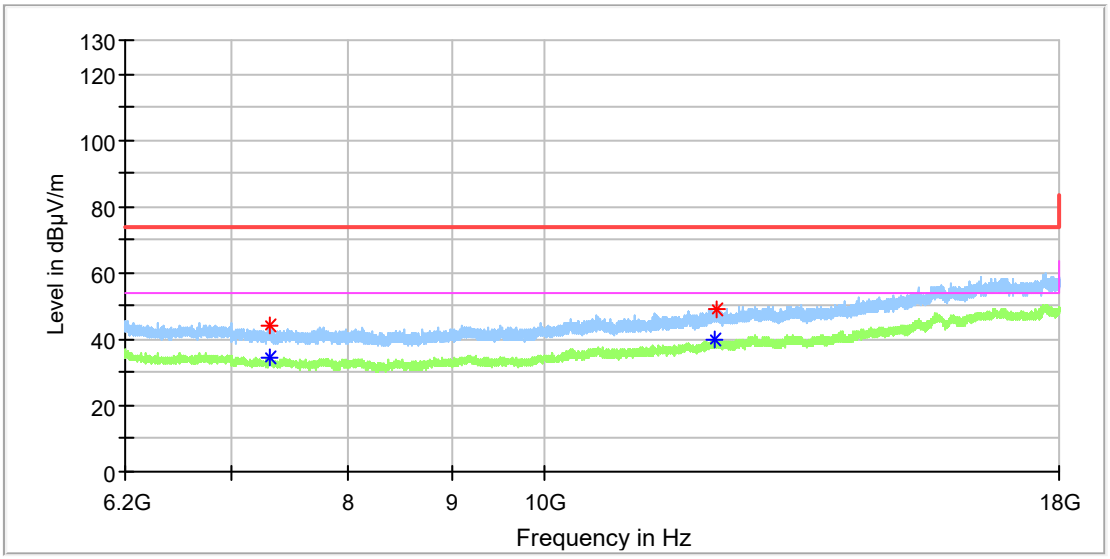
EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	NER J20 Ultra
Test Mode:	WIFI 2.4G_11n20_Ch6
Order No/Sample No:	168468654/A003649235-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
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)
7312.641667	---	34.76	54.00	19.24	150.0	H	265.0	8.2
7316.083333	43.99	---	74.00	30.01	150.0	H	204.0	8.2
12140.316667	---	39.70	54.00	14.30	150.0	H	358.0	14.4
12170.800000	49.13	---	74.00	24.87	150.0	H	327.0	14.5

Final_Result

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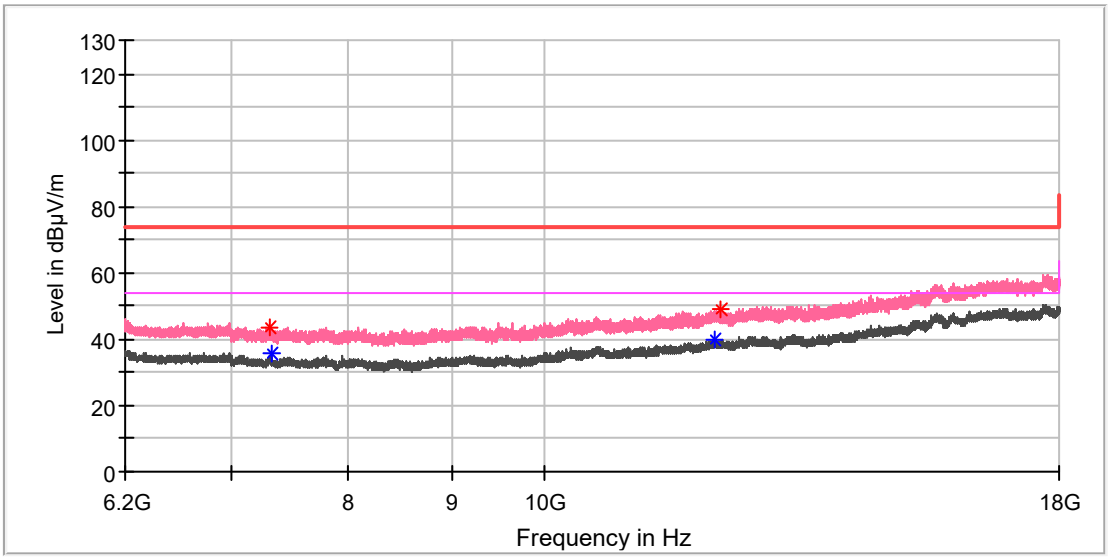
EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	NER J20 Ultra
Test Mode:	WIFI 2.4G_11n20_Ch6
Order No/Sample No:	168468654/A003649235-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
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)
7310.183333	43.70	---	74.00	30.30	150.0	V	106.0	8.2
7318.541667	---	35.68	54.00	18.32	150.0	V	58.0	8.2
12150.641667	---	39.89	54.00	14.11	150.0	V	203.0	14.4
12222.425000	49.08	---	74.00	24.92	150.0	V	71.0	14.7

Final_Result

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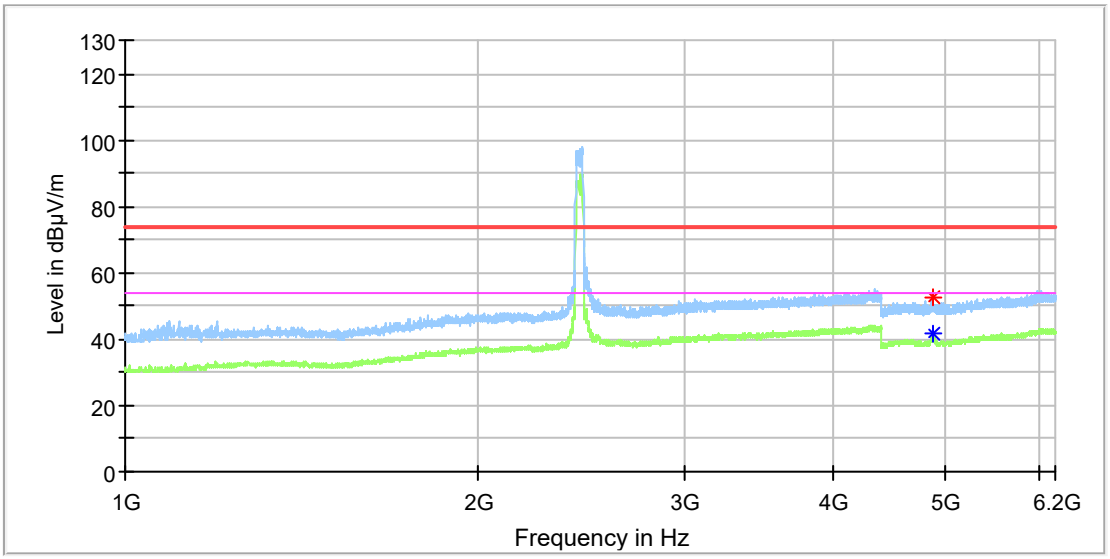
EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	NER J20 Ultra
Test Mode:	WIFI 2.4G_11n40_Ch6
Order No/Sample No:	168468654/A003649235-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

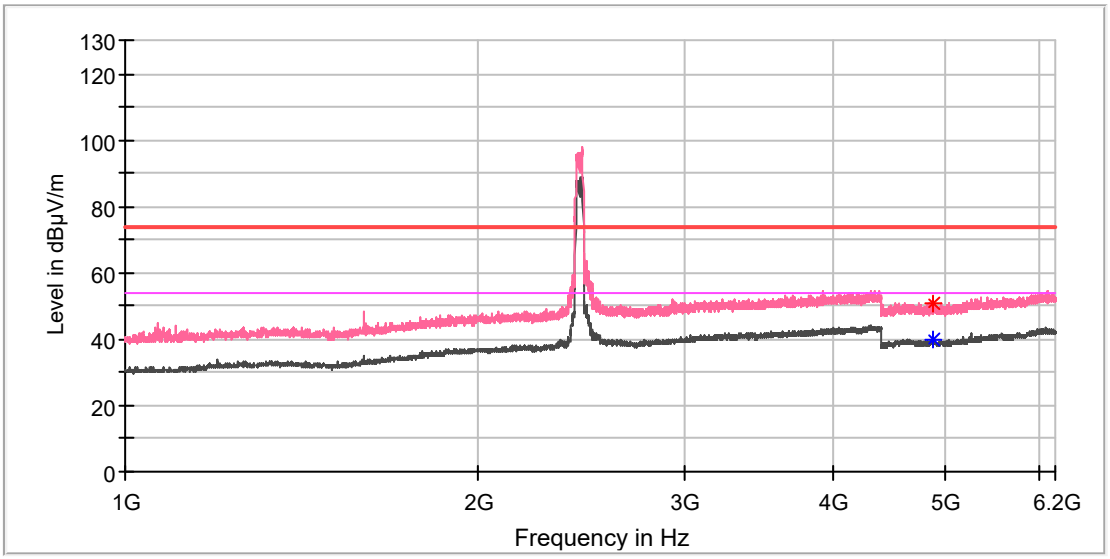
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4870.500000	---	41.81	54.00	12.19	150.0	H	130.0	11.8
4876.000000	52.84	---	74.00	21.16	150.0	H	12.0	11.8

Final_Result

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

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	NER J20 Ultra
Test Mode:	WIFI 2.4G_11n40_Ch6
Order No/Sample No:	168468654/A003649235-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

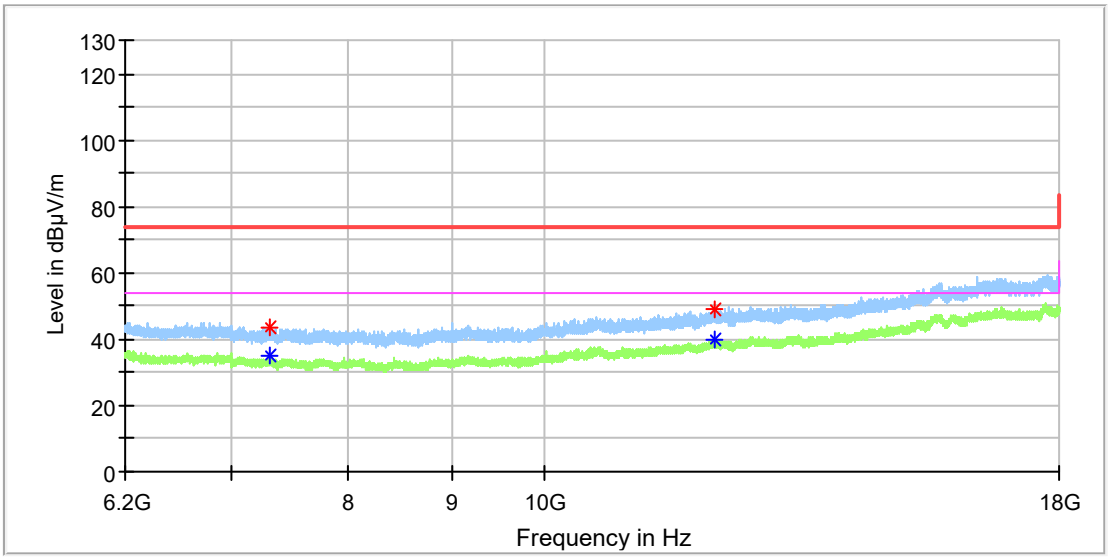
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4871.000000	---	39.91	54.00	14.09	150.0	V	17.0	11.8
4872.000000	51.06	---	74.00	22.94	150.0	V	43.0	11.8

Final_Result

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

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	NER J20 Ultra
Test Mode:	WIFI 2.4G_11n40_Ch6
Order No/Sample No:	168468654/A003649235-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

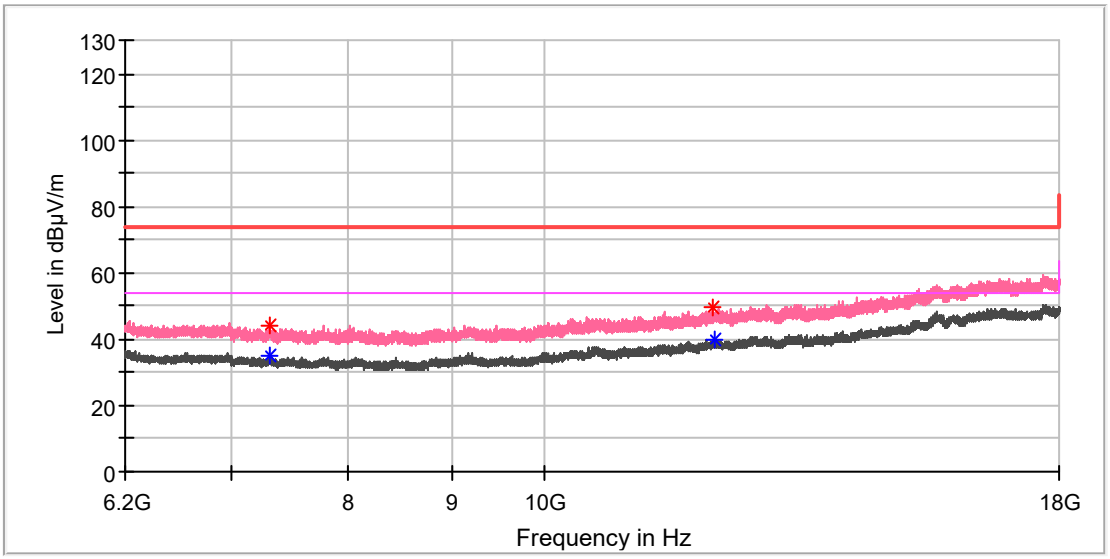
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7301.825000	---	34.77	54.00	19.23	150.0	H	133.0	8.3
7304.775000	43.38	---	74.00	30.62	150.0	H	24.0	8.3
12138.841667	---	40.07	54.00	13.93	150.0	H	2.0	14.4
12147.200000	48.97	---	74.00	25.03	150.0	H	24.0	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:	Robot Vacuum Cleaner
Model:	NER J20 Ultra
Test Mode:	WIFI 2.4G_11n40_Ch6
Order No/Sample No:	168468654/A003649235-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
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)
7304.283333	---	34.96	54.00	19.04	150.0	V	315.0	8.3
7310.675000	43.91	---	74.00	30.09	150.0	V	107.0	8.2
12128.516667	49.66	---	74.00	24.34	150.0	V	338.0	14.3
12133.433333	---	39.87	54.00	14.13	150.0	V	338.0	14.3

Final_Result

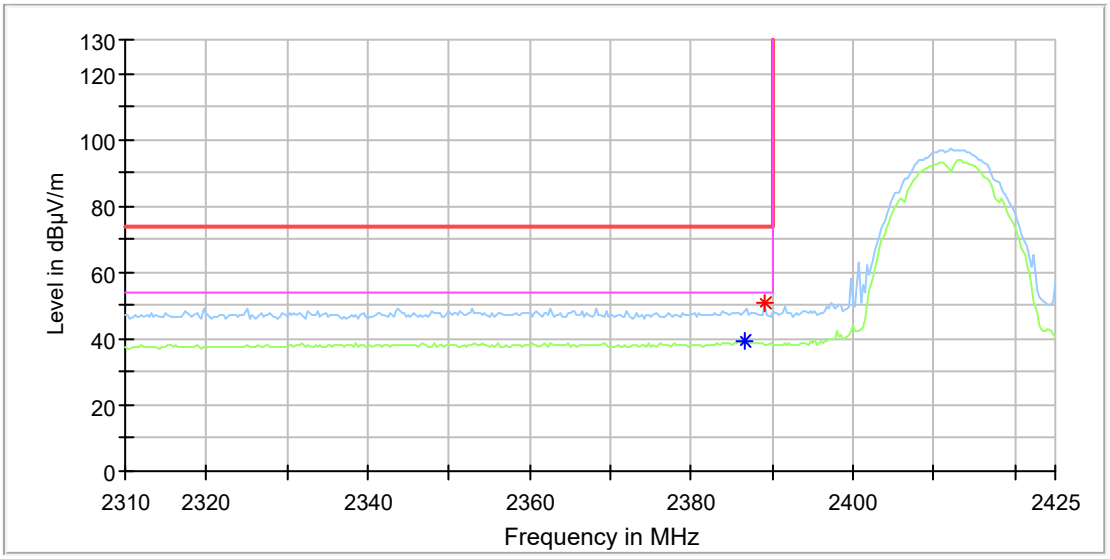
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

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

Wi-Fi 802.11 b mode

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	NER J20 Ultra
Test Mode:	WIFI 2.4G_11b_Ch1
Order No/Sample No:	168468654/A003649235-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

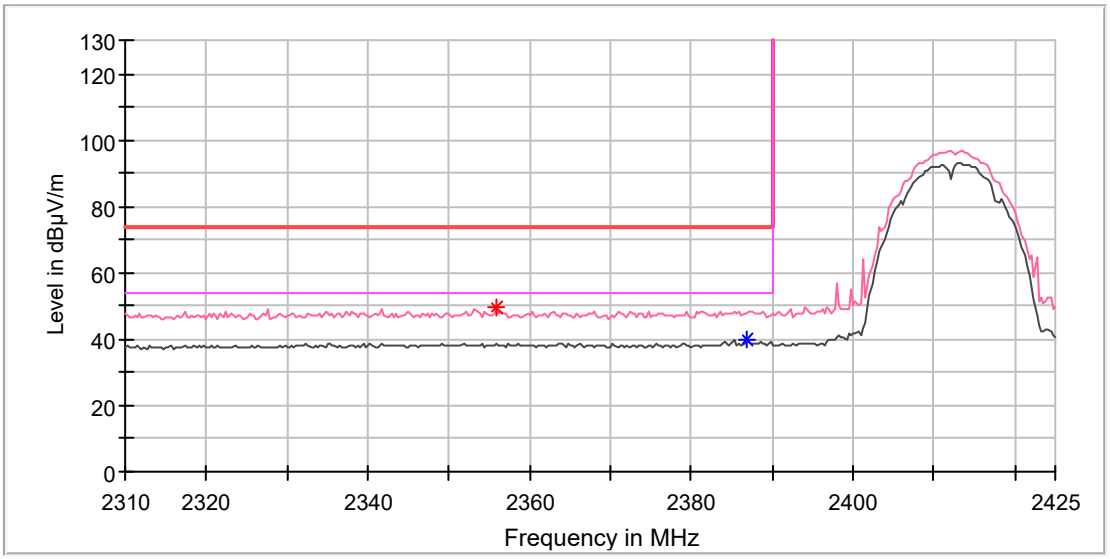
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2386.470588	---	39.59	54.00	14.41	150.0	H	108.0	7.0
2389.117647	50.63	---	74.00	23.37	150.0	H	134.0	7.0

Final_Result

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

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	NER J20 Ultra
Test Mode:	WIFI 2.4G_11b_Ch1
Order No/Sample No:	168468654/A003649235-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

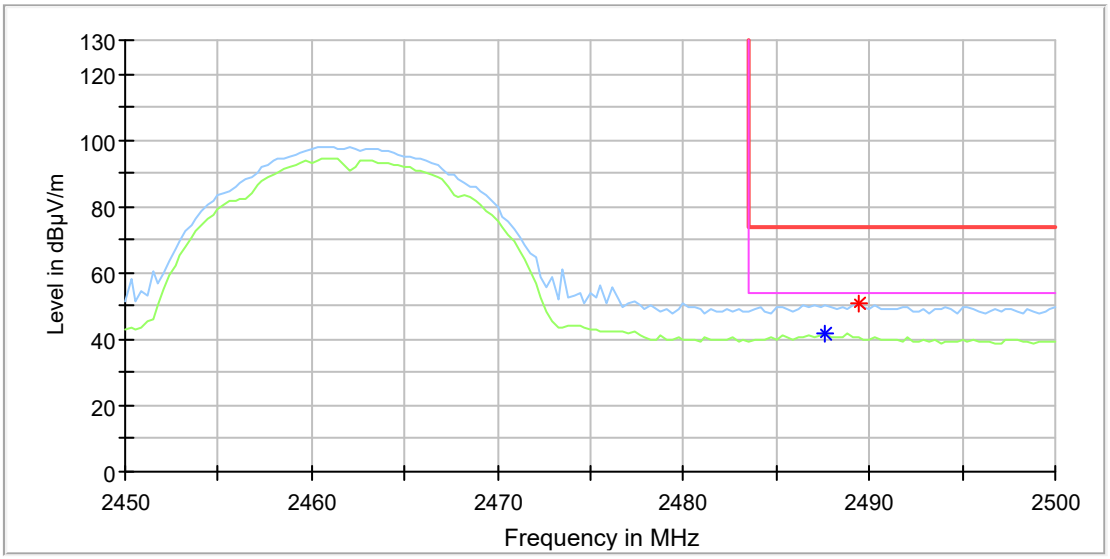
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2355.882353	49.46	---	74.00	24.54	150.0	V	342.0	6.9
2386.764706	---	40.02	54.00	13.98	150.0	V	31.0	7.0

Final_Result

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

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	NER J20 Ultra
Test Mode:	WIFI 2.4G_11b_Ch11
Order No/Sample No:	168468654/A003649235-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

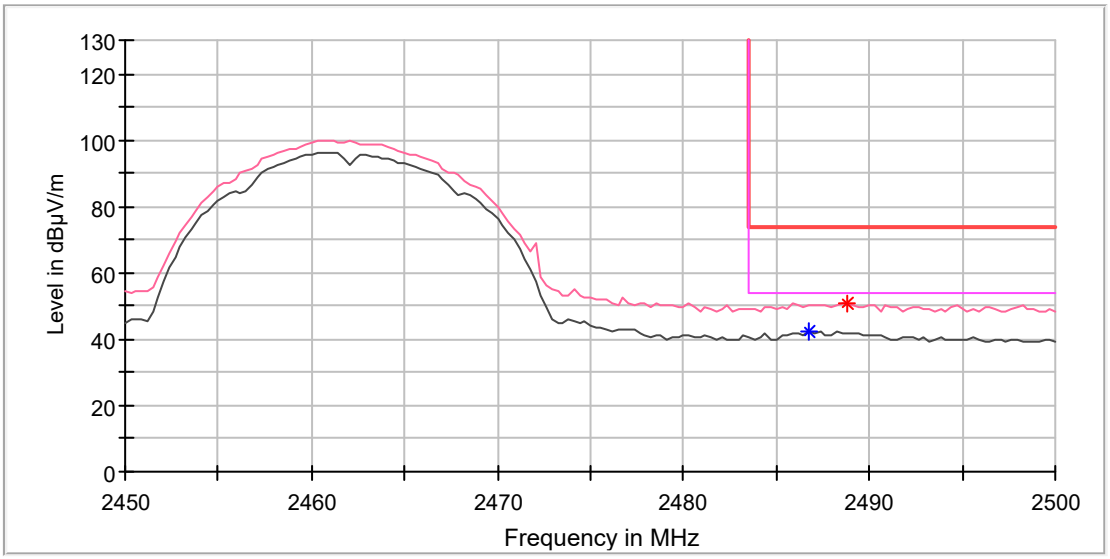
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2487.647059	---	41.61	54.00	12.39	150.0	H	118.0	7.4
2489.411765	50.55	---	74.00	23.45	150.0	H	118.0	7.4

Final_Result

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

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	NER J20 Ultra
Test Mode:	WIFI 2.4G_11b_Ch11
Order No/Sample No:	168468654/A003649235-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
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)
2486.764706	---	42.15	54.00	11.86	150.0	V	0.0	7.4
2488.823529	50.97	---	74.00	23.03	150.0	V	261.0	7.4

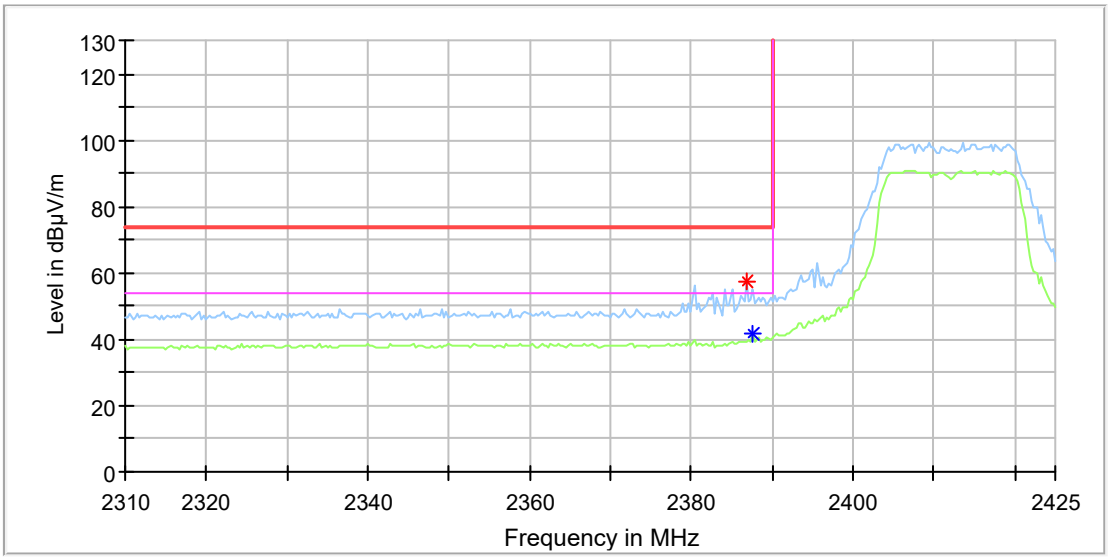
Final_Result

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

Wi-Fi 802.11 g mode

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	NER J20 Ultra
Test Mode:	WIFI 2.4G_11g_Ch1
Order No/Sample No:	168468654/A003649235-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

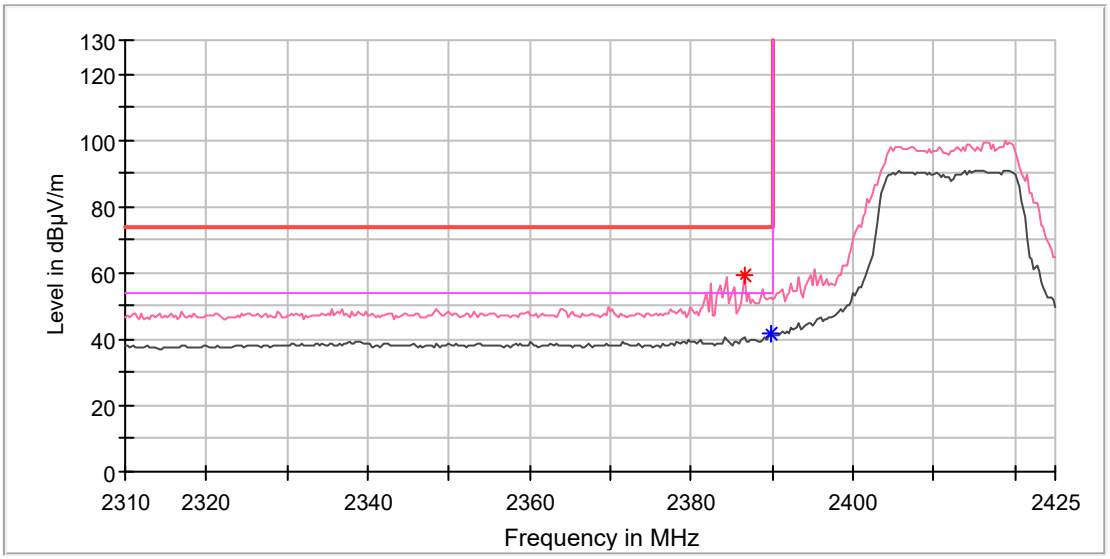
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2386.764706	57.30	---	74.00	16.70	150.0	H	158.0	7.0
2387.647059	---	41.82	54.00	12.18	150.0	H	111.0	7.0

Final_Result

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

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	NER J20 Ultra
Test Mode:	WIFI 2.4G_11g_Ch1
Order No/Sample No:	168468654/A003649235-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

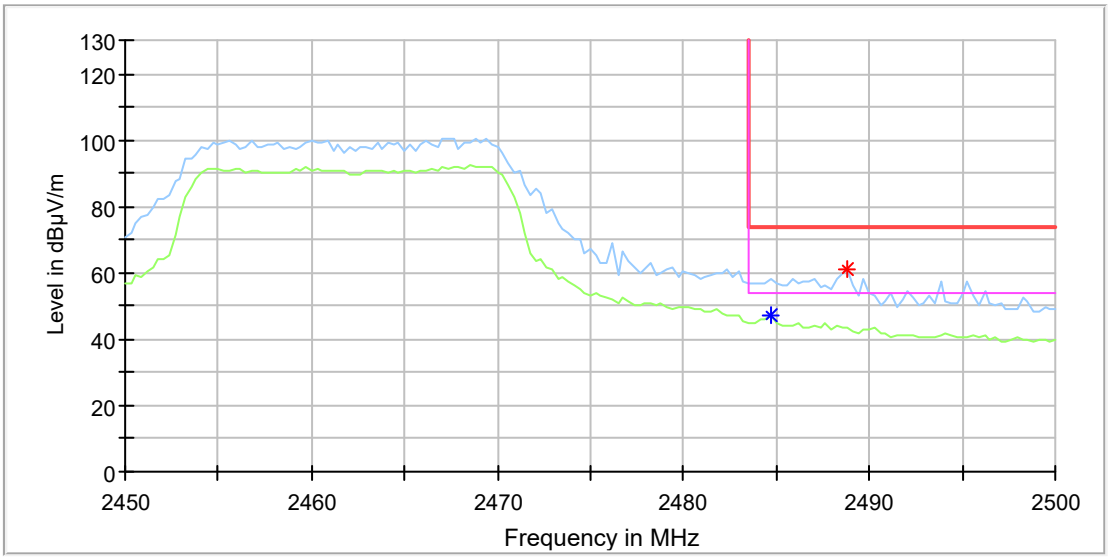
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2386.470588	59.20	---	74.00	14.80	150.0	V	106.0	7.0
2389.705882	---	41.74	54.00	12.26	150.0	V	119.0	7.0

Final_Result

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

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	NER J20 Ultra
Test Mode:	WIFI 2.4G_11g_Ch11
Order No/Sample No:	168468654/A003649235-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

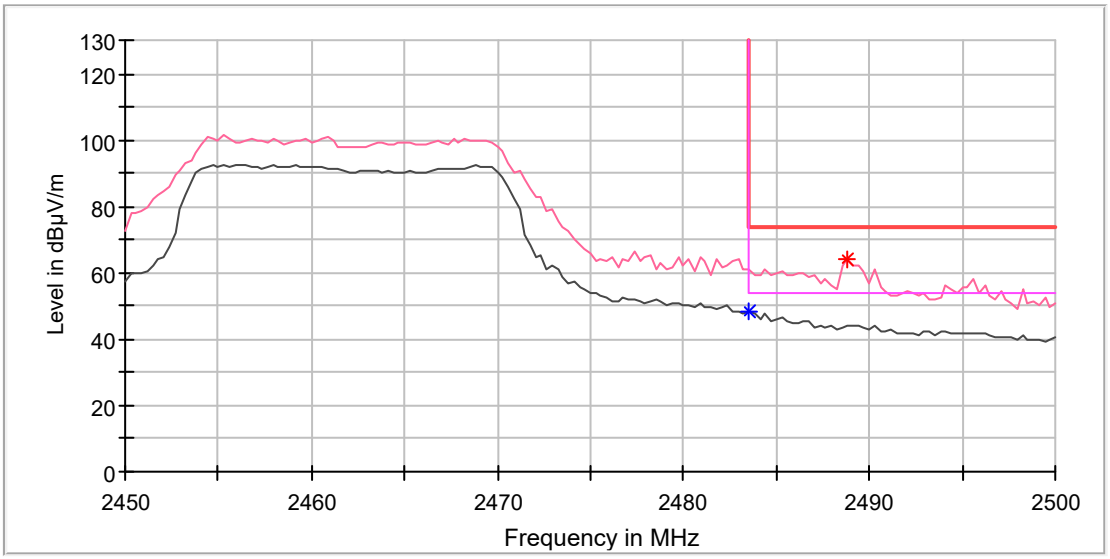
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.705882	---	47.19	54.00	6.81	150.0	H	126.0	7.4
2488.823529	60.94	---	74.00	13.06	150.0	H	119.0	7.4

Final_Result

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

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	NER J20 Ultra
Test Mode:	WIFI 2.4G_11g_Ch11
Order No/Sample No:	168468654/A003649235-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
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	---	48.13	54.00	5.87	150.0	V	101.0	7.4
2488.823529	63.86	---	74.00	10.14	150.0	V	128.0	7.4

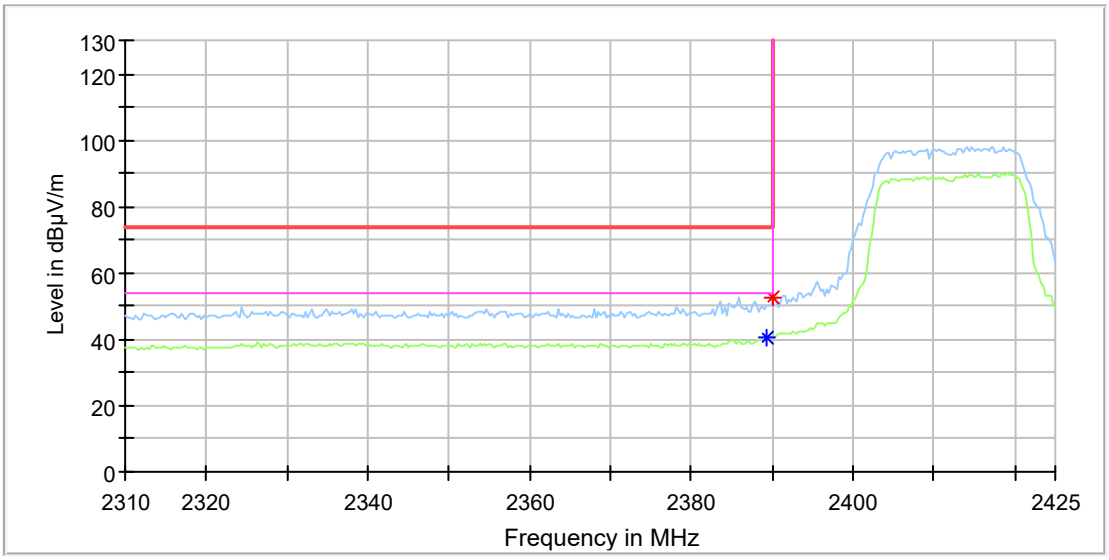
Final_Result

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

Wi-Fi 802.11 n(HT20) mode

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	NER J20 Ultra
Test Mode:	WIFI 2.4G_11n20_Ch1
Order No/Sample No:	168468654/A003649235-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

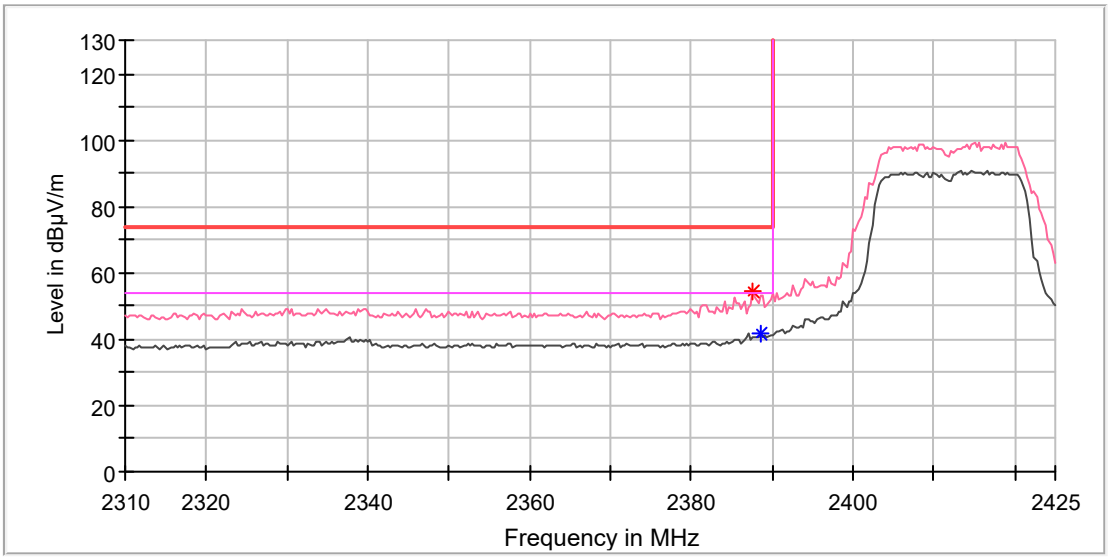
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.411765	---	40.72	54.00	13.28	150.0	H	87.0	7.0
2390.000000	52.34	---	74.00	21.66	150.0	H	127.0	7.0

Final_Result

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

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	NER J20 Ultra
Test Mode:	WIFI 2.4G_11n20_Ch1
Order No/Sample No:	168468654/A003649235-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

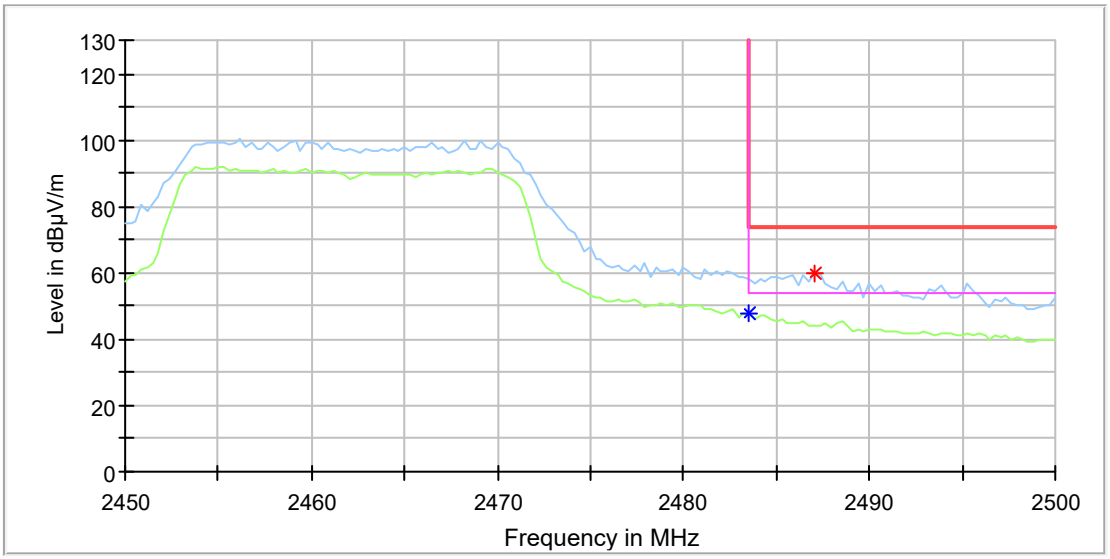
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2387.647059	54.48	---	74.00	19.52	150.0	V	119.0	7.0
2388.529412	---	41.60	54.00	12.40	150.0	V	119.0	7.0

Final_Result

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

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	NER J20 Ultra
Test Mode:	WIFI 2.4G_11n20_Ch11
Order No/Sample No:	168468654/A003649235-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

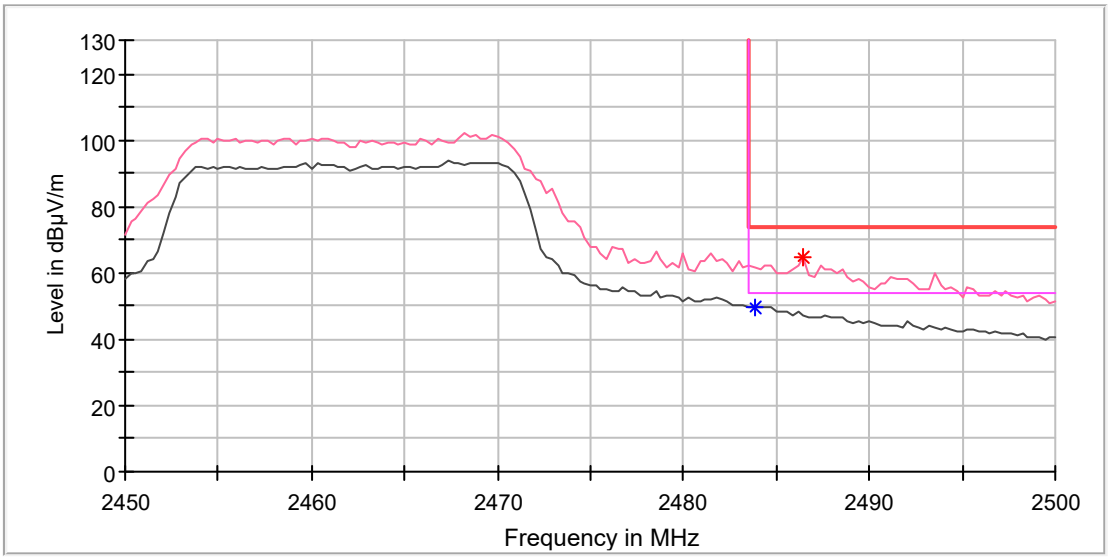
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	---	48.03	54.00	5.97	150.0	H	26.0	7.4
2487.058824	59.75	---	74.00	14.25	150.0	H	108.0	7.4

Final_Result

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

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	NER J20 Ultra
Test Mode:	WIFI 2.4G_11n20_Ch11
Order No/Sample No:	168468654/A003649235-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
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)
2483.823529	---	49.85	54.00	4.15	150.0	V	260.0	7.4
2486.470588	64.53	---	74.00	9.47	150.0	V	260.0	7.4

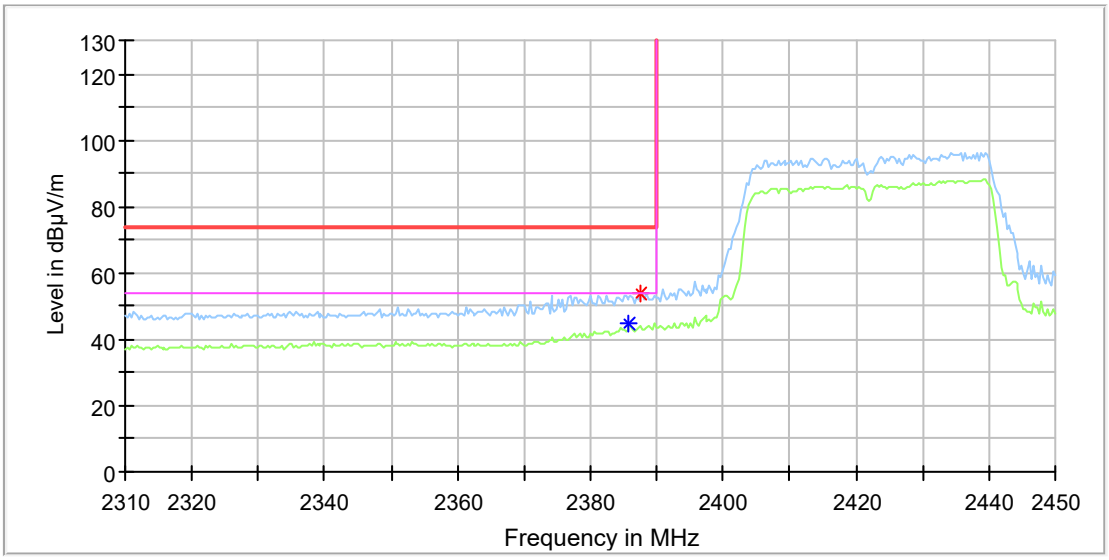
Final_Result

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

Wi-Fi 802.11 n(HT40) mode

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	NER J20 Ultra
Test Mode:	WIFI 2.4G_11n40_Ch3
Order No/Sample No:	168468654/A003649235-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

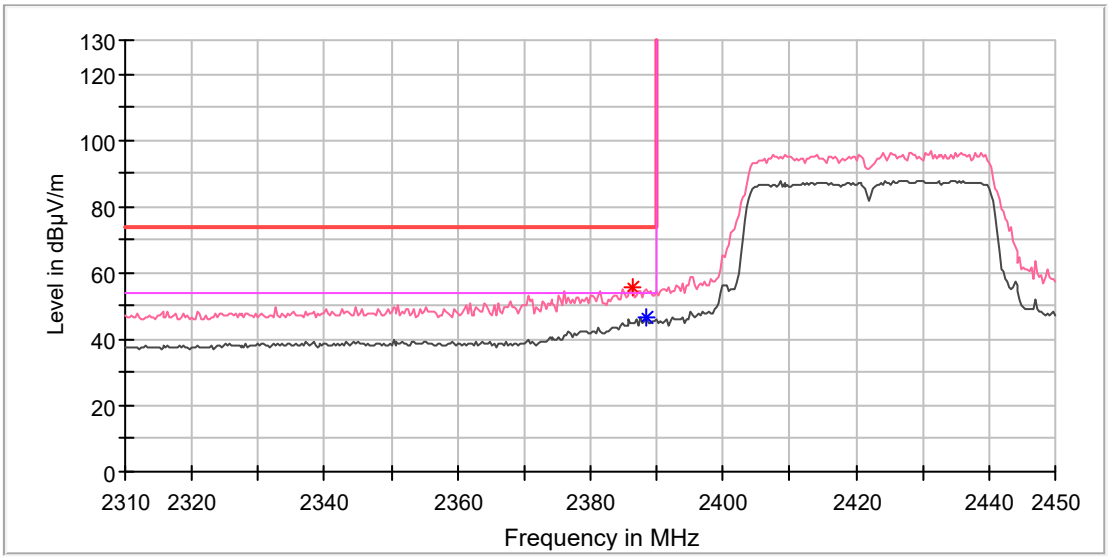
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2385.882353	---	44.72	54.00	9.28	150.0	H	128.0	7.0
2387.647059	53.77	---	74.00	20.23	150.0	H	100.0	7.0

Final_Result

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

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	NER J20 Ultra
Test Mode:	WIFI 2.4G_11n40_Ch3
Order No/Sample No:	168468654/A003649235-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

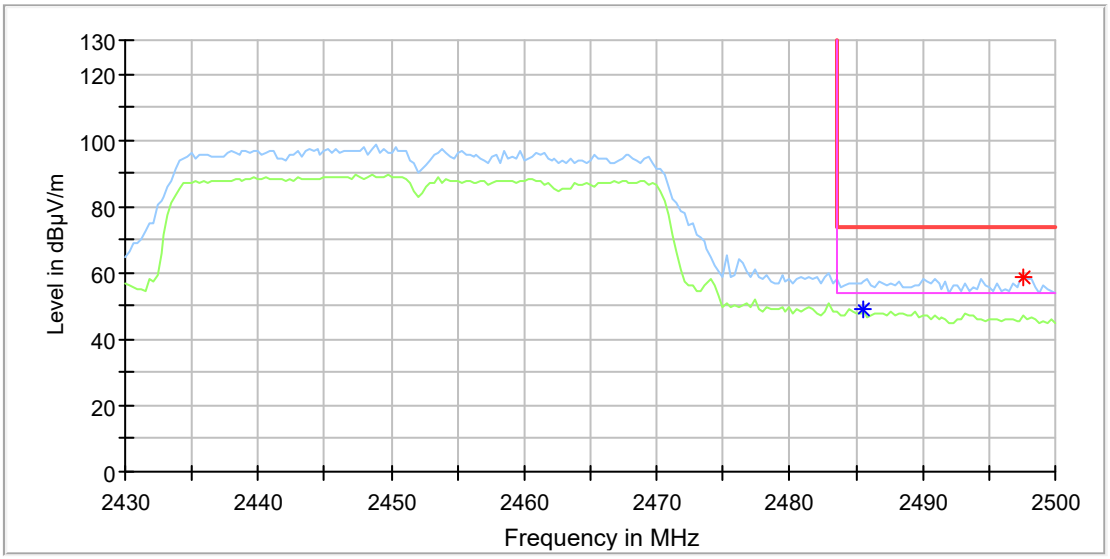
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2386.470588	55.39	---	74.00	18.61	150.0	V	290.0	7.0
2388.529412	---	46.52	54.00	7.48	150.0	V	110.0	7.0

Final_Result

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

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	NER J20 Ultra
Test Mode:	WIFI 2.4G_11n40_Ch9
Order No/Sample No:	168468654/A003649235-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

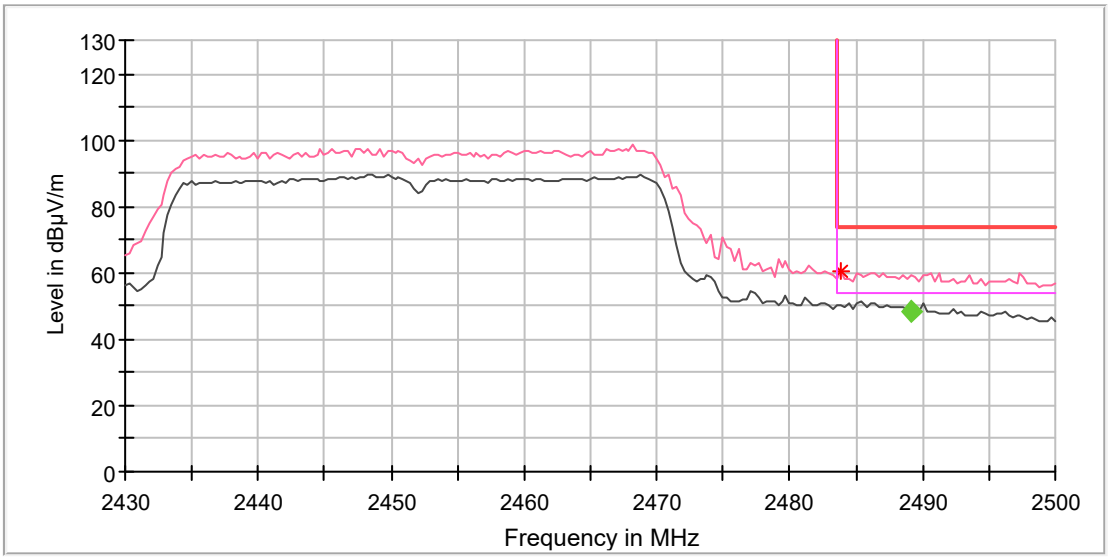
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2485.588235	---	48.78	54.00	5.22	150.0	H	176.0	7.4
2497.647059	58.49	---	74.00	15.51	150.0	H	118.0	7.4

Final_Result

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

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	NER J20 Ultra
Test Mode:	WIFI 2.4G_11n40_Ch9
Order No/Sample No:	168468654/A003649235-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
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)
2483.823529	60.34	---	74.00	13.66	150.0	V	262.0	7.4

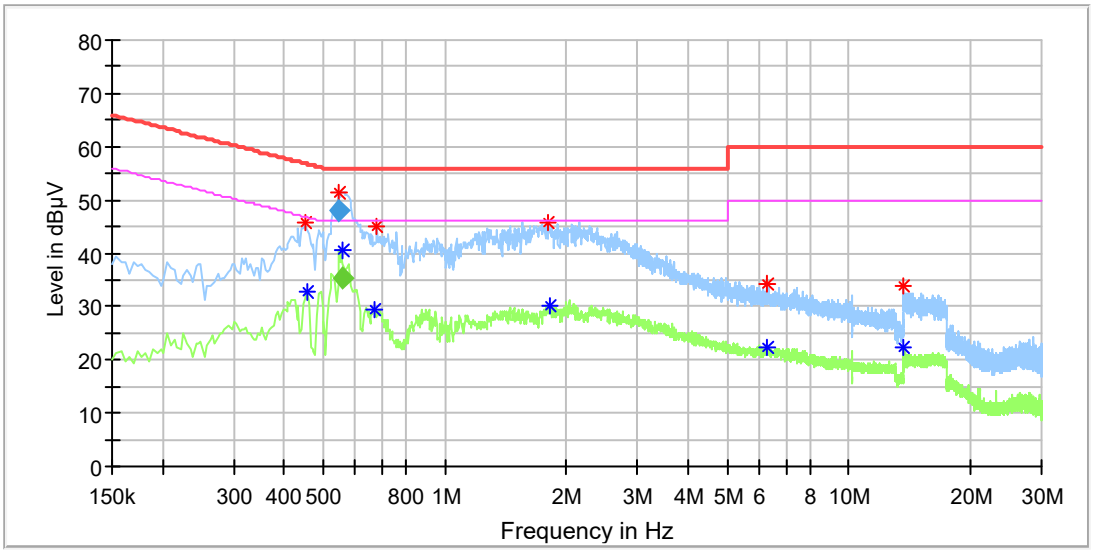
Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2489.117647	48.41	54.00	5.59	145.0	V	-5.0	7.4

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

EUT Information

EUT Name	Robot Vacuum Cleaner
Order Number:	168468660
Model:	NER J20 Ultra
Test Mode:	Charging + 2.4GHz Wi-Fi Link
Test Voltage:	AC 120V/60Hz
Test Standard:	FCC Part 15
Test By:/Review By:	Junhua Sun/ Gary Chen
Tem./Hum./Pressure:	23.3°C/54.8%/101kPa
Remark:	SR1



Critical_Freqs

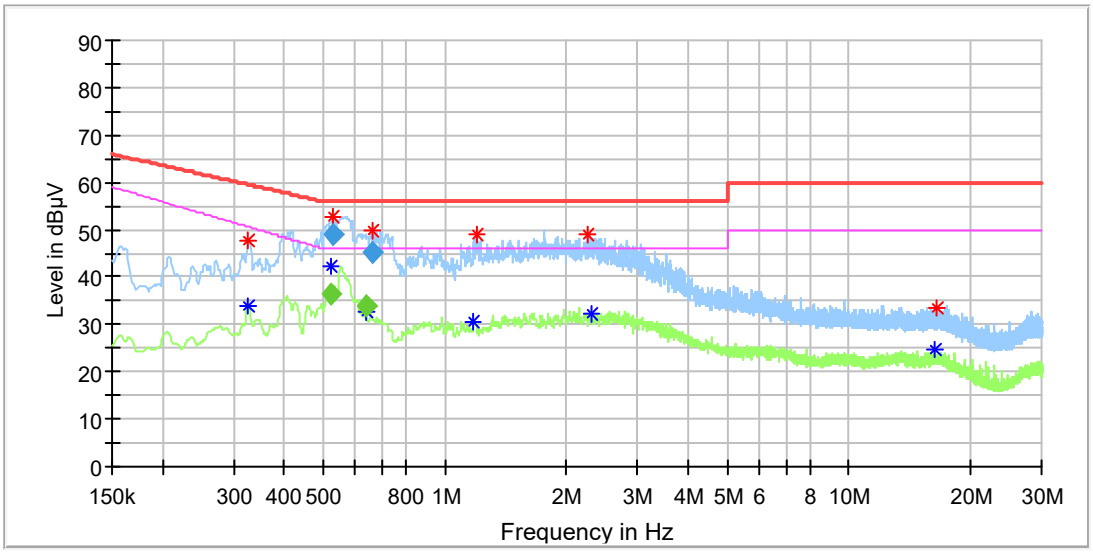
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.450000	45.91	---	56.88	10.97	L1	9.9
0.458000	---	32.62	46.73	14.10	L1	9.9
0.546500	51.42	---	56.00	4.58	L1	9.9
0.561500	---	40.41	46.00	5.59	L1	9.9
0.672000	---	29.58	46.00	16.42	L1	9.8
0.680000	44.85	---	56.00	11.15	L1	9.8
1.792000	45.76	---	56.00	10.24	L1	9.8
1.820000	---	30.32	46.00	15.68	L1	9.8
6.256000	---	22.40	50.00	27.60	L1	9.9
6.292000	34.05	---	60.00	25.95	L1	9.9
13.688000	---	22.39	50.00	27.61	L1	10.1
13.688000	33.86	---	60.00	26.14	L1	10.1

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.546500	47.86	---	56.00	8.14	1000.0	9.000	L1	9.9
0.561500	---	35.35	46.00	10.65	1000.0	9.000	L1	9.9

EUT Information

EUT Name	Robot Vacuum Cleaner
Order Number:	168468660
Model:	NER J20 Ultra
Test Mode:	Charging + 2.4GHz Wi-Fi Link
Test Voltage:	AC 120V/60Hz
Test Standard:	FCC Part 15
Test By:/Review By:	Junhua Sun/ Gary Chen
Tem./Hum./Pressure:	23.3°C/54.8%/101kPa
Remark:	SR1



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.325783	---	33.77	50.63	16.86	N	9.7
0.327442	47.64	---	59.52	11.88	N	9.7
0.525633	---	42.14	46.00	3.86	N	9.7
0.529925	52.68	---	56.00	3.32	N	9.7
0.642792	---	32.70	46.00	13.30	N	9.8
0.662592	49.78	---	56.00	6.22	N	9.8
1.181483	---	30.64	46.00	15.36	N	9.7
1.204700	49.17	---	56.00	6.83	N	9.7
2.252767	49.14	---	56.00	6.86	N	10.0
2.304175	---	32.43	46.00	13.57	N	10.0
16.348600	---	24.85	50.00	25.15	N	10.2
16.537650	33.54	---	60.00	26.46	N	10.2

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.525633	---	36.43	46.00	9.57	1000.0	9.000	N	9.7
0.529925	49.16	---	56.00	6.84	1000.0	9.000	N	9.7
0.642792	---	34.08	46.00	11.92	1000.0	9.000	N	9.8
0.662592	45.21	---	56.00	10.79	1000.0	9.000	N	9.8