

Appendix B: Test Results

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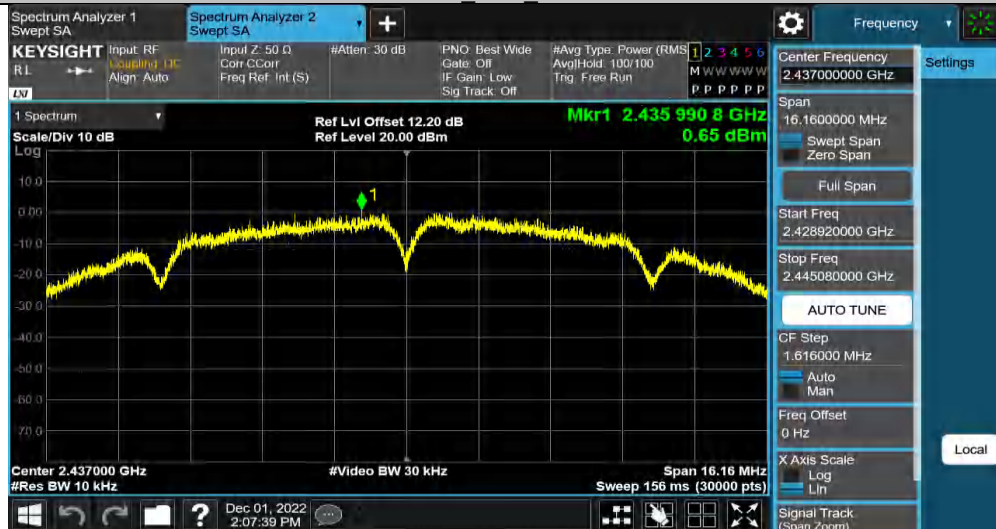
Appendix B.1: Test Results of Conducted Power Spectral Density

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-1.33	≤8.00	PASS
		2437	0.65	≤8.00	PASS
		2462	1.22	≤8.00	PASS
11G	Ant1	2412	-0.15	≤8.00	PASS
		2437	-1.19	≤8.00	PASS
		2462	-3.40	≤8.00	PASS
11N20SISO	Ant1	2412	-1.78	≤8.00	PASS
		2437	-0.60	≤8.00	PASS
		2462	-5.37	≤8.00	PASS
11N40SISO	Ant1	2422	-3.73	≤8.00	PASS
		2437	-5.18	≤8.00	PASS
		2452	-8.53	≤8.00	PASS

11B_Ant1_2412



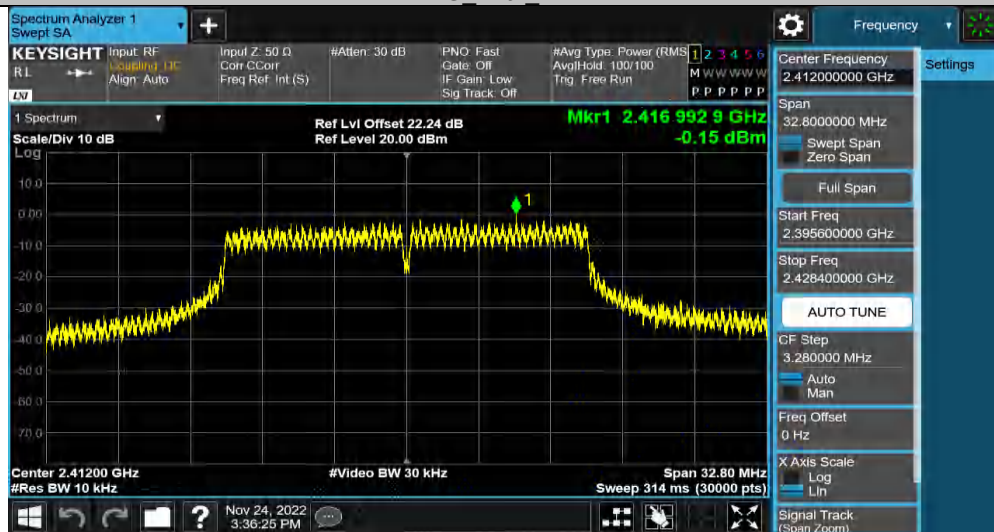
11B_Ant1_2437



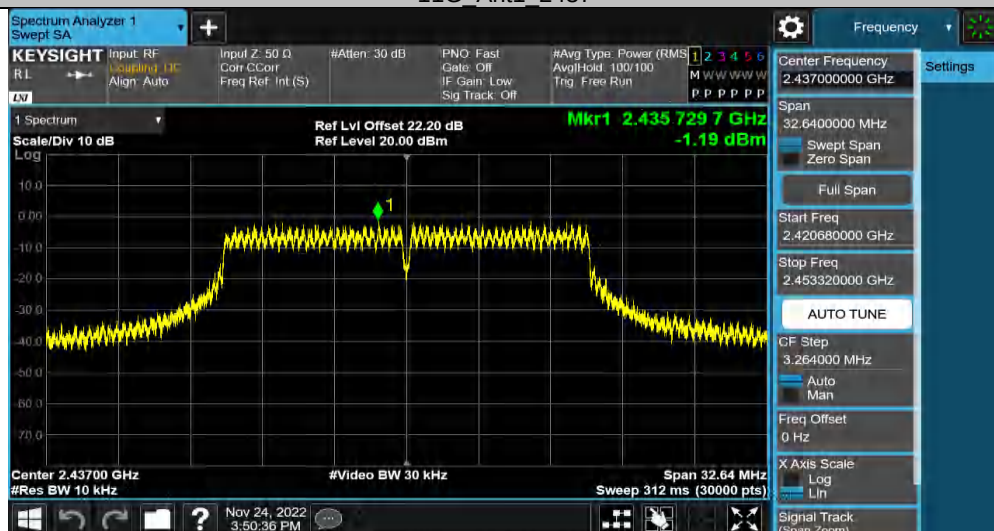
11B_Ant1_2462



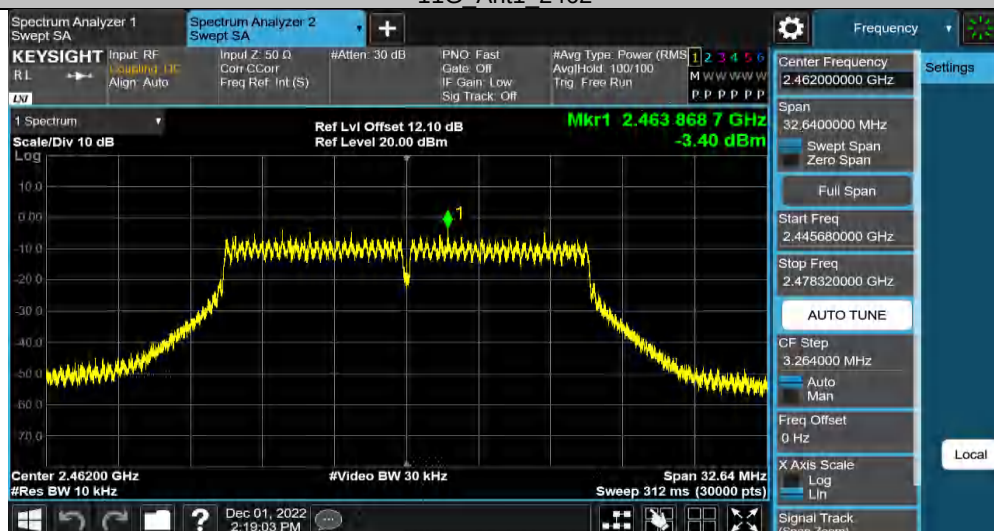
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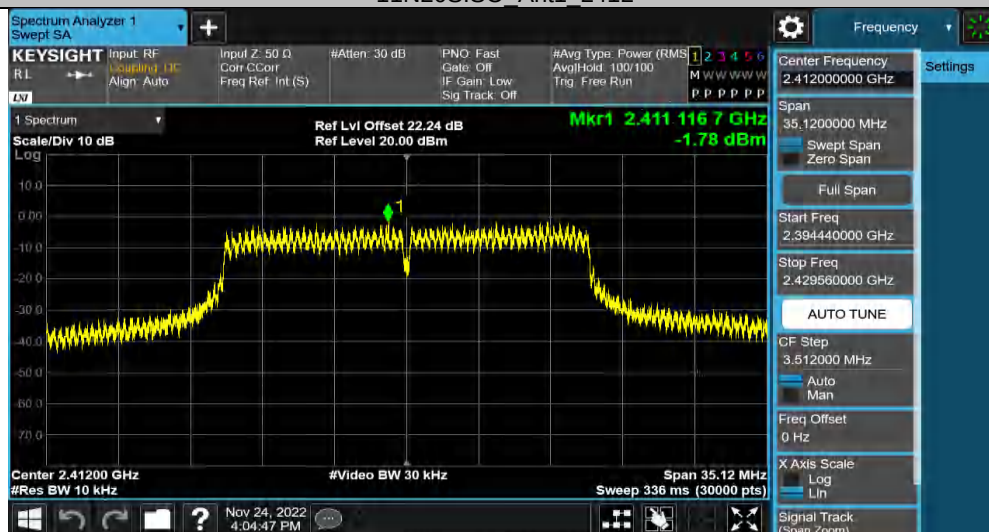
11G_Ant1_2437



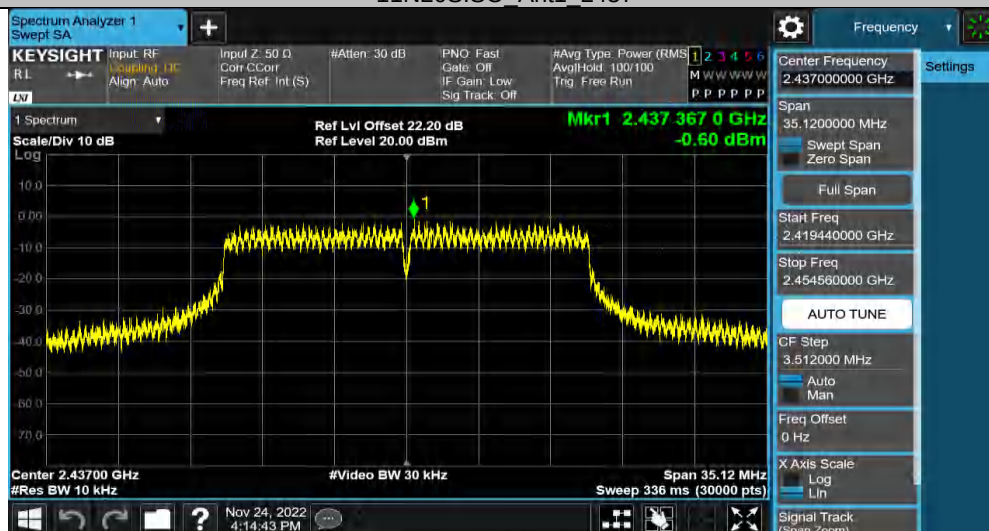
11G_Ant1_2462



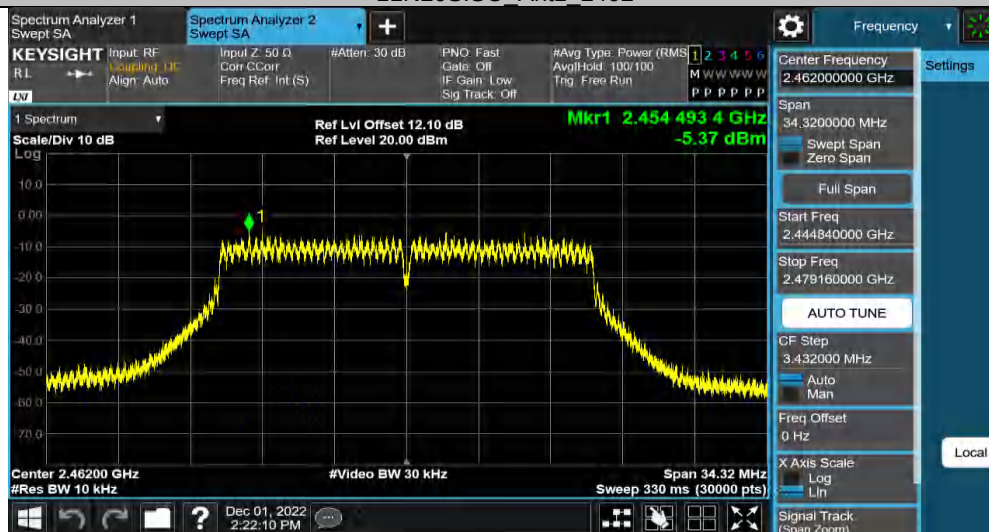
11N20SISO Ant1 2412

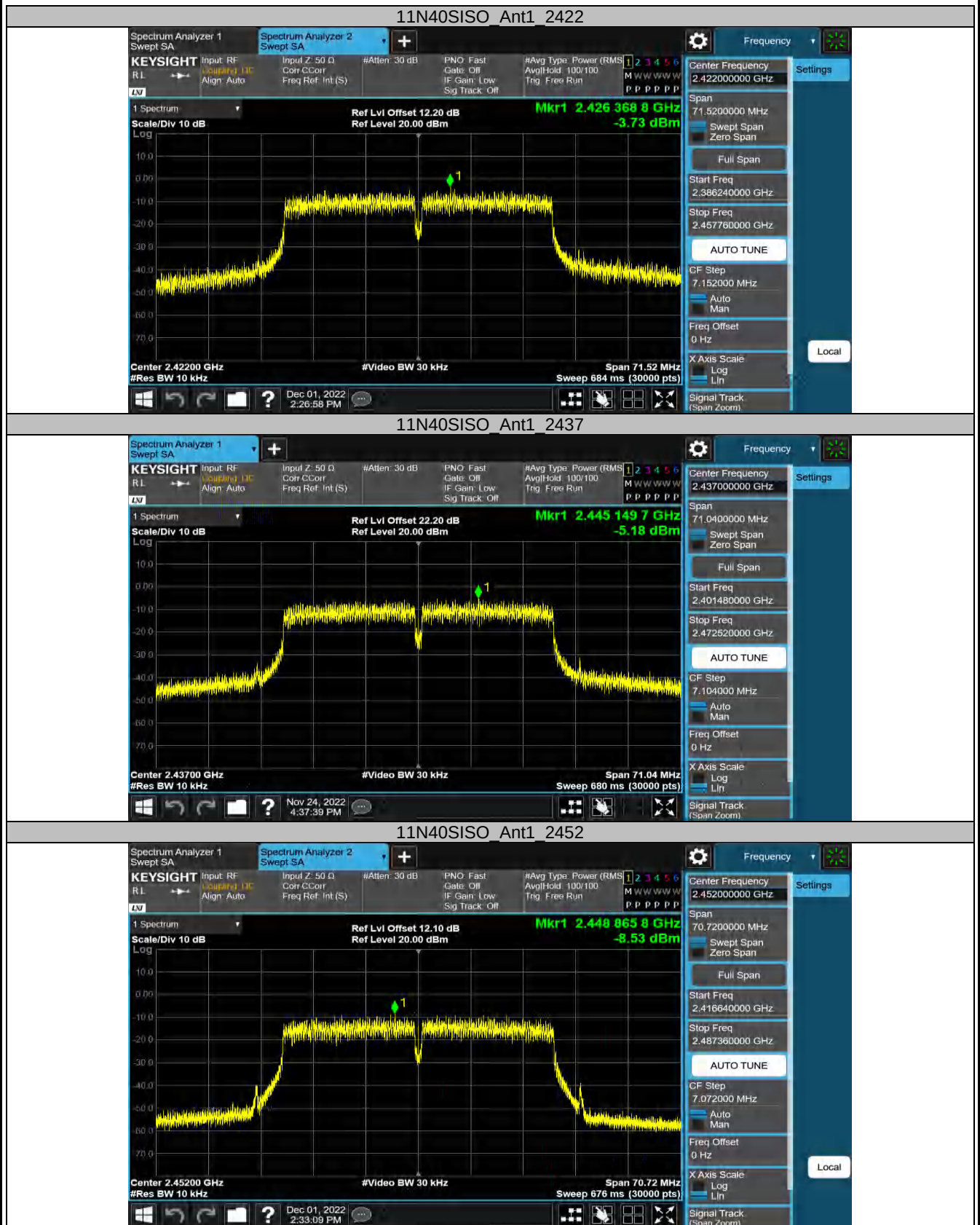


11N20SISO Ant1 2437



11N20SISO Ant1 2462





Appendix B.2: Test Results of 6dB Bandwidth

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.040	2407.480	2416.520	0.5	PASS
		2437	8.080	2432.480	2440.560	0.5	PASS
		2462	8.560	2457.960	2466.520	0.5	PASS
11G	Ant1	2412	16.400	2403.840	2420.240	0.5	PASS
		2437	16.320	2428.840	2445.160	0.5	PASS
		2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.240	2420.800	0.5	PASS
		2437	17.560	2428.240	2445.800	0.5	PASS
		2462	17.160	2453.240	2470.400	0.5	PASS
11N40SISO	Ant1	2422	35.760	2404.400	2440.160	0.5	PASS
		2437	35.520	2419.400	2454.920	0.5	PASS
		2452	35.360	2434.240	2469.600	0.5	PASS

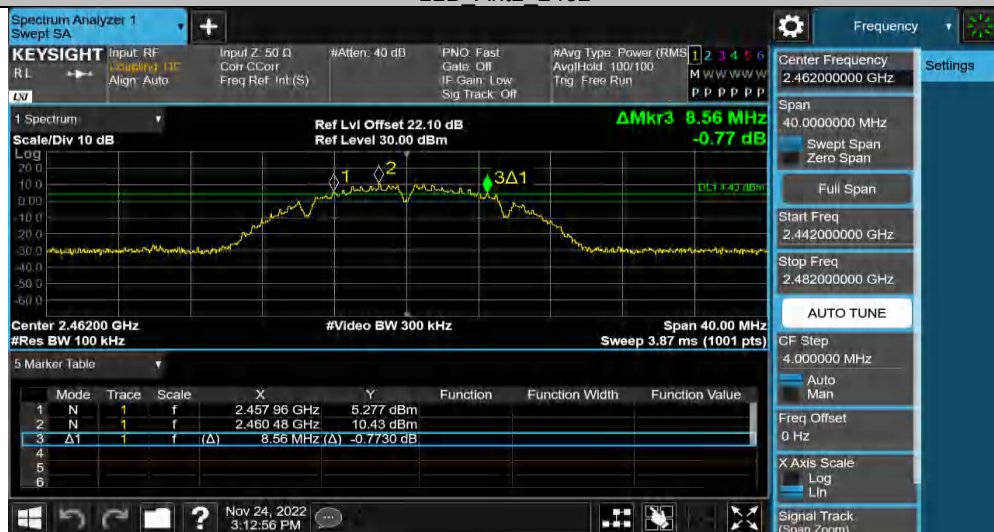
11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO Ant1 2412



11N20SISO Ant1 2437



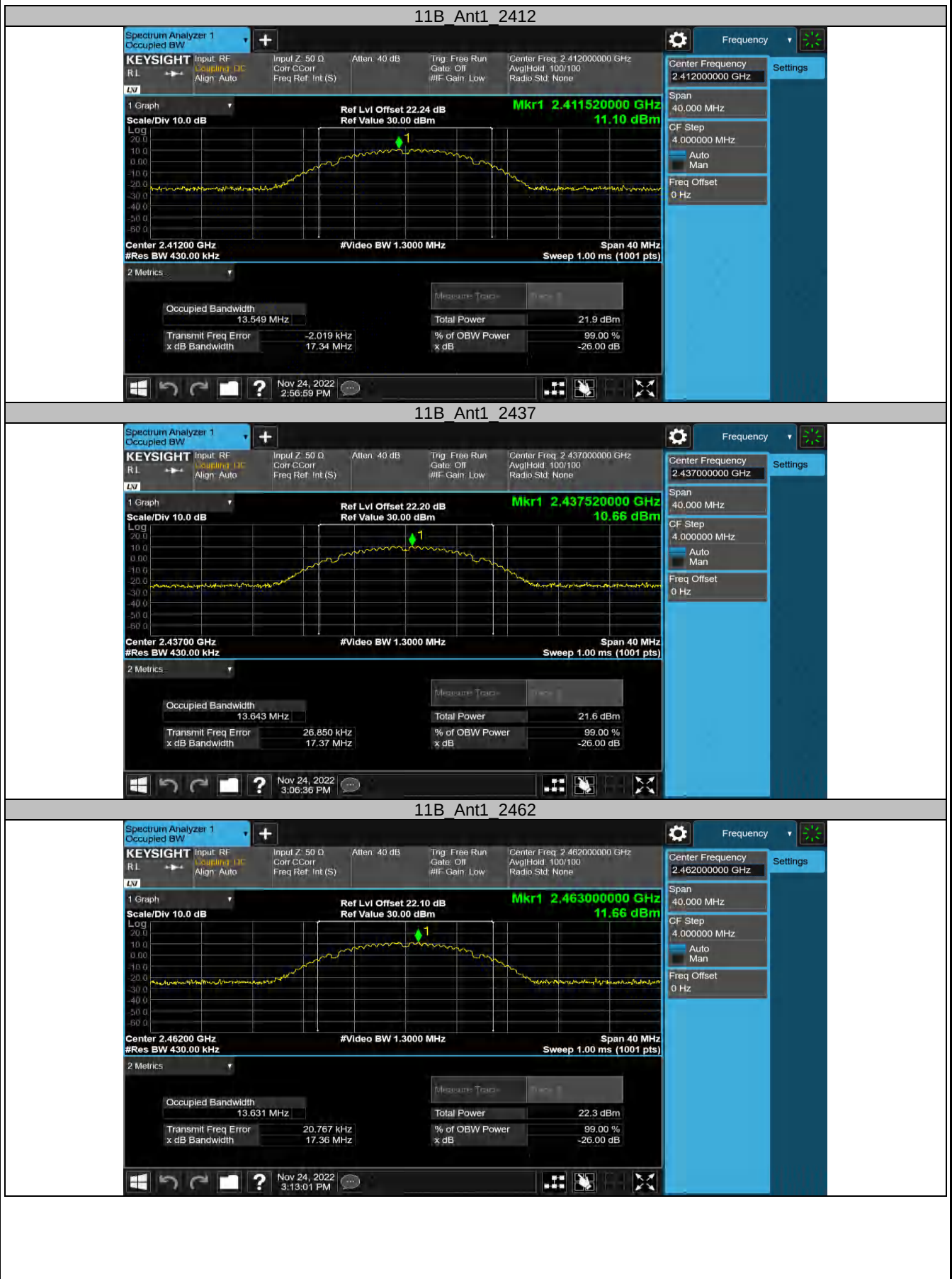
11N20SISO Ant1 2462





Appendix B.3: Test Results of 99% Bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.549	2405.2235	2418.7725	---	PASS
		2437	13.643	2430.2054	2443.8484	---	PASS
		2462	13.631	2455.2053	2468.8363	---	PASS
11G	Ant1	2412	18.072	2403.3761	2421.4481	---	PASS
		2437	17.788	2428.2478	2446.0358	---	PASS
		2462	17.243	2453.3366	2470.5796	---	PASS
11N20SISO	Ant1	2412	18.441	2402.9968	2421.4378	---	PASS
		2437	18.665	2427.7333	2446.3983	---	PASS
		2462	18.189	2452.9354	2471.1244	---	PASS
11N40SISO	Ant1	2422	37.566	2403.8987	2441.4647	---	PASS
		2437	36.567	2418.8517	2455.4187	---	PASS
		2452	36.345	2433.8500	2470.1950	---	PASS









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

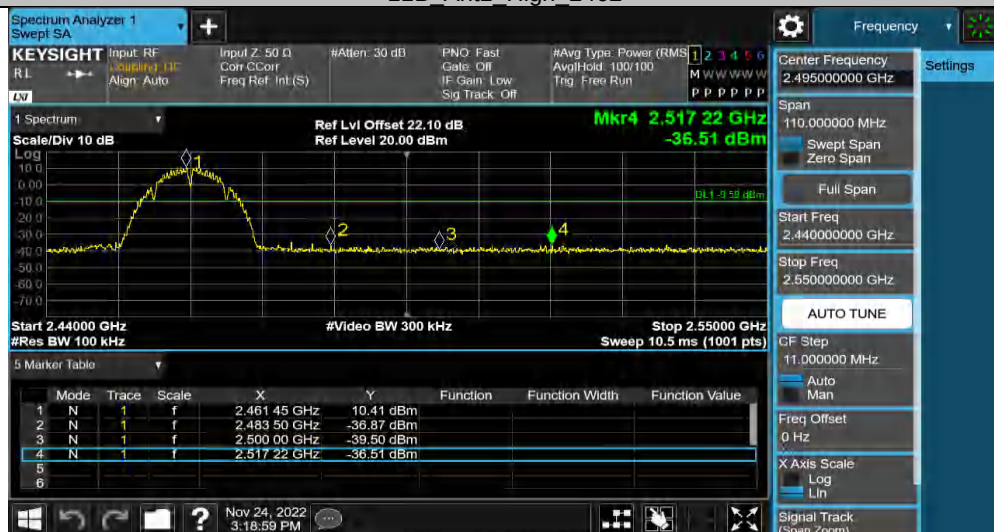
Band Edge

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	11.07	-36.14	≤-8.93	PASS
		High	2462	10.41	-36.51	≤-9.59	PASS
11G	Ant1	Low	2412	5.77	-21.42	≤-14.23	PASS
		High	2462	6.91	-35.22	≤-13.09	PASS
11N20SISO	Ant1	Low	2412	7.65	-22.06	≤-12.35	PASS
		High	2462	7.85	-30.29	≤-12.15	PASS
11N40SISO	Ant1	Low	2422	4.55	-23.04	≤-15.45	PASS
		High	2452	4.28	-28.38	≤-15.72	PASS

11B Ant1 Low 2412



11B Ant1 High 2462



11G Ant1 Low 2412



11G Ant1 High 2462



11N20SISO Ant1 Low 2412



11N20SISO Ant1 High 2462



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	10.58	10.58	---	PASS
			30~1000	10.58	-37.81	≤-9.42	PASS
			1000~26500	10.58	-28.41	≤-9.42	PASS
		2437	Reference	9.04	9.04	---	PASS
			30~1000	9.04	-38.2	≤-10.96	PASS
			1000~26500	9.04	-29.18	≤-10.96	PASS
		2462	Reference	9.38	9.38	---	PASS
			30~1000	9.38	-37.99	≤-10.62	PASS
			1000~26500	9.38	-28.86	≤-10.62	PASS
11G	Ant1	2412	Reference	4.03	4.03	---	PASS
			30~1000	4.03	-38.22	≤-15.97	PASS
			1000~26500	4.03	-28.89	≤-15.97	PASS
		2437	Reference	6.08	6.08	---	PASS
			30~1000	6.08	-37.7	≤-13.92	PASS
			1000~26500	6.08	-28.72	≤-13.92	PASS
		2462	Reference	6.22	6.22	---	PASS
			30~1000	6.22	-37.03	≤-13.78	PASS
			1000~26500	6.22	-28.55	≤-13.78	PASS
11N20SISO	Ant1	2412	Reference	3.78	3.78	---	PASS
			30~1000	3.78	-38.07	≤-16.22	PASS
			1000~26500	3.78	-28.4	≤-16.22	PASS
		2437	Reference	7.24	7.24	---	PASS
			30~1000	7.24	-37.72	≤-12.76	PASS
			1000~26500	7.24	-28.88	≤-12.76	PASS
		2462	Reference	7.82	7.82	---	PASS
			30~1000	7.82	-38.07	≤-12.18	PASS
			1000~26500	7.82	-28.74	≤-12.18	PASS
11N40SISO	Ant1	2422	Reference	5.08	5.08	---	PASS
			30~1000	5.08	-37.46	≤-14.92	PASS
			1000~26500	5.08	-28.43	≤-14.92	PASS
		2437	Reference	1.46	1.46	---	PASS
			30~1000	1.46	-37.85	≤-18.54	PASS
			1000~26500	1.46	-29.12	≤-18.54	PASS
		2452	Reference	3.04	3.04	---	PASS
			30~1000	3.04	-37.46	≤-16.96	PASS
			1000~26500	3.04	-29.3	≤-16.96	PASS

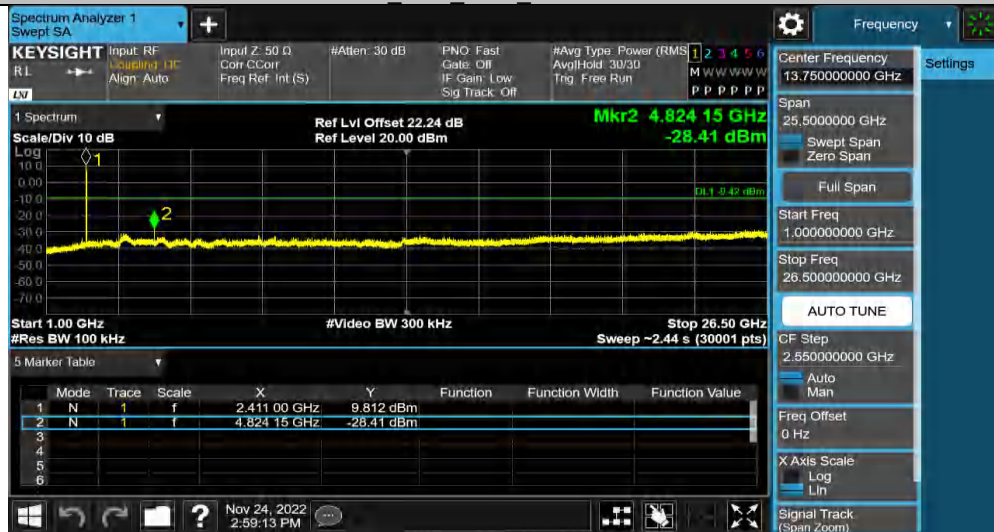
11B_Ant1_2412_0-Reference



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



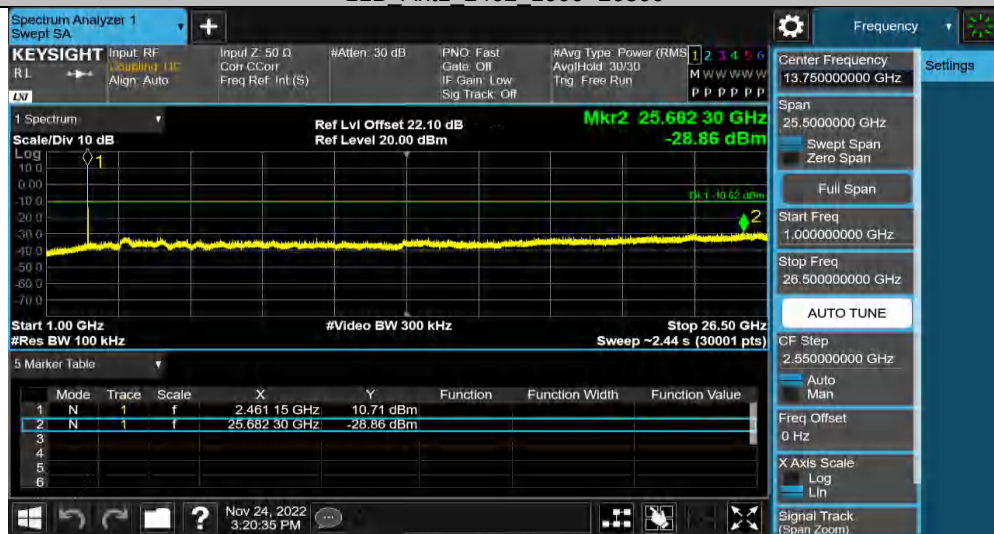
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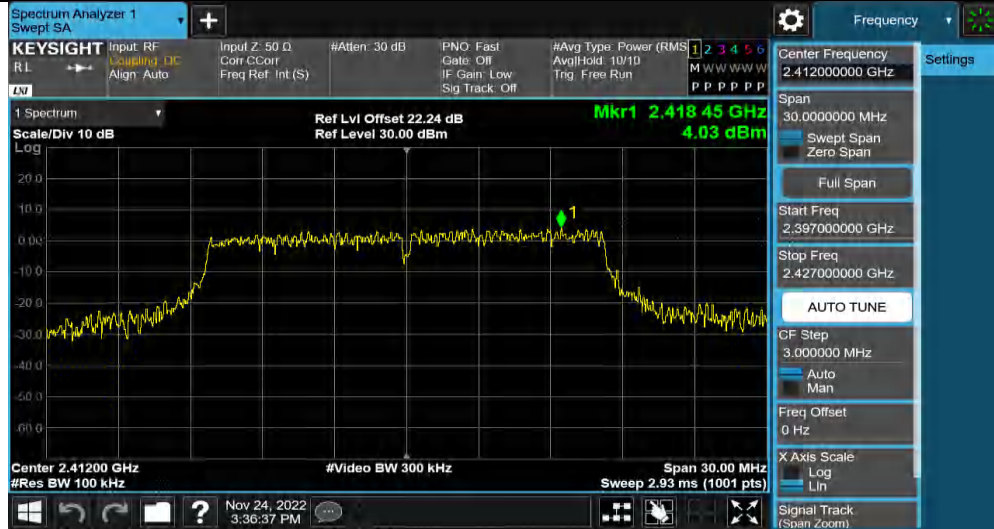
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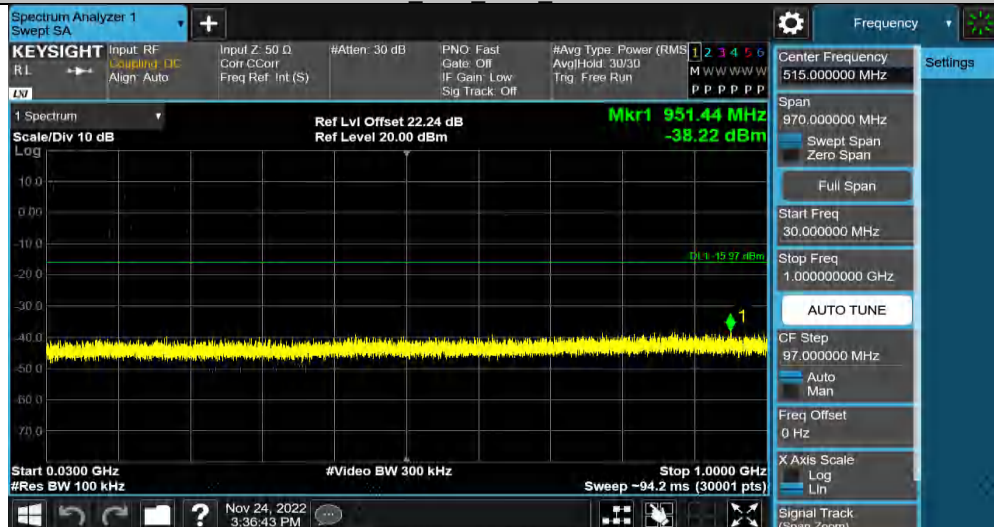
11B_Ant1_2462_1000-26500



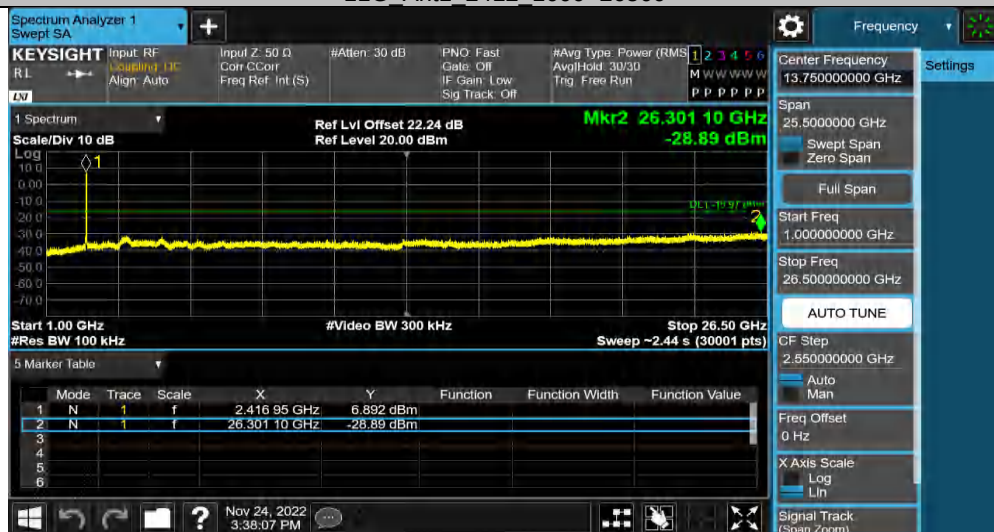
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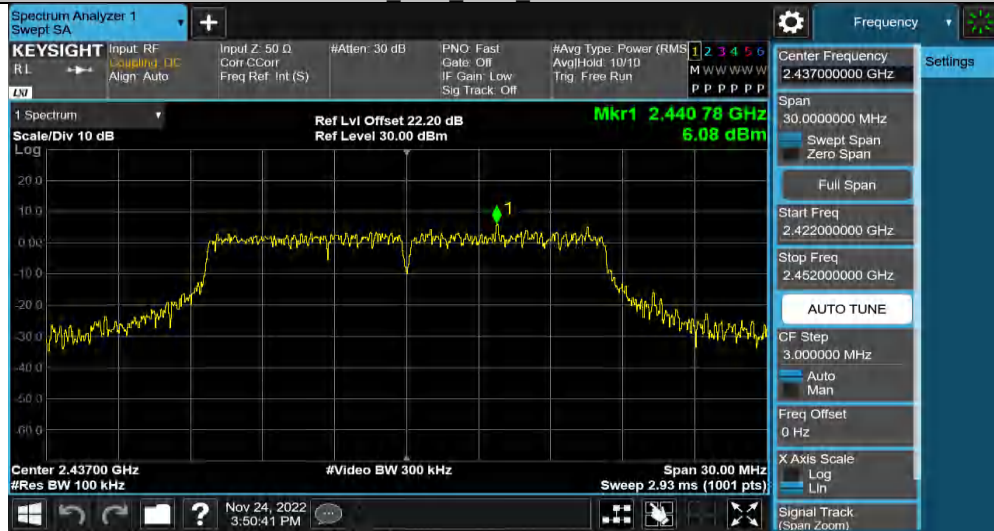
11G_Ant1_2412_30-1000



11G_Ant1_2412_1000-26500



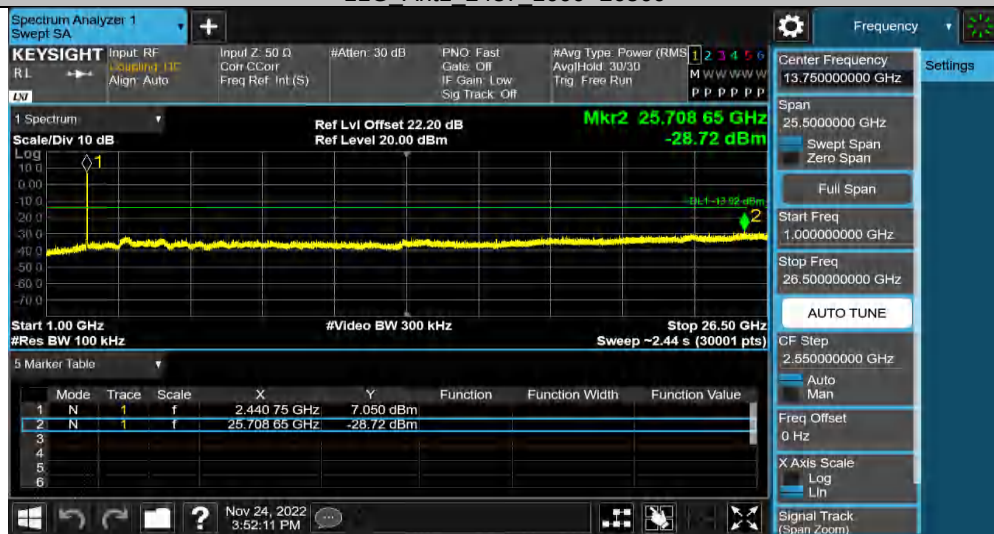
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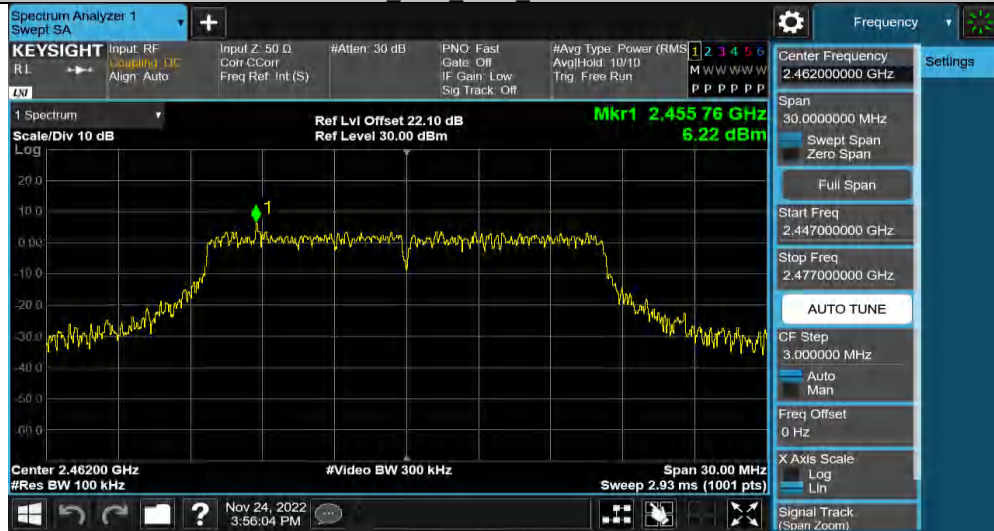
11G_Ant1_2437_30-1000



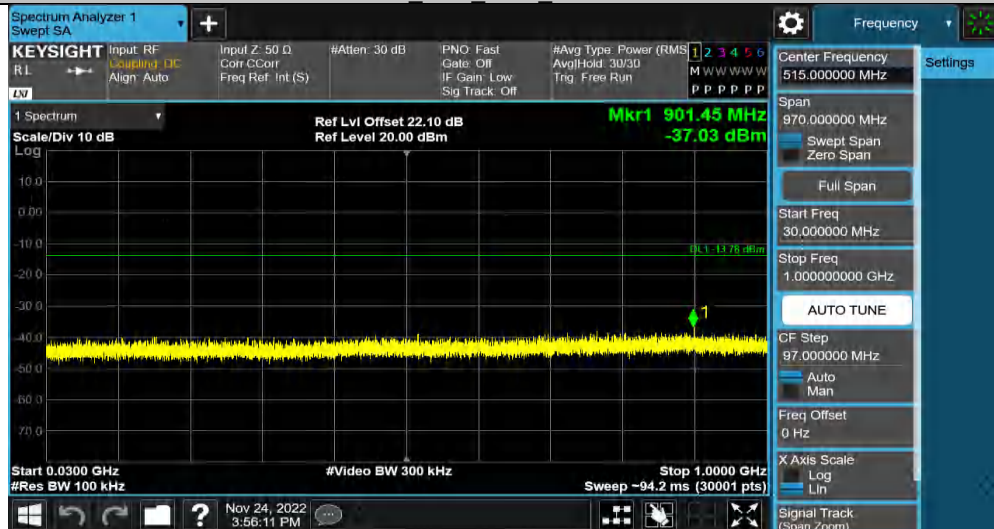
11G_Ant1_2437_1000-26500



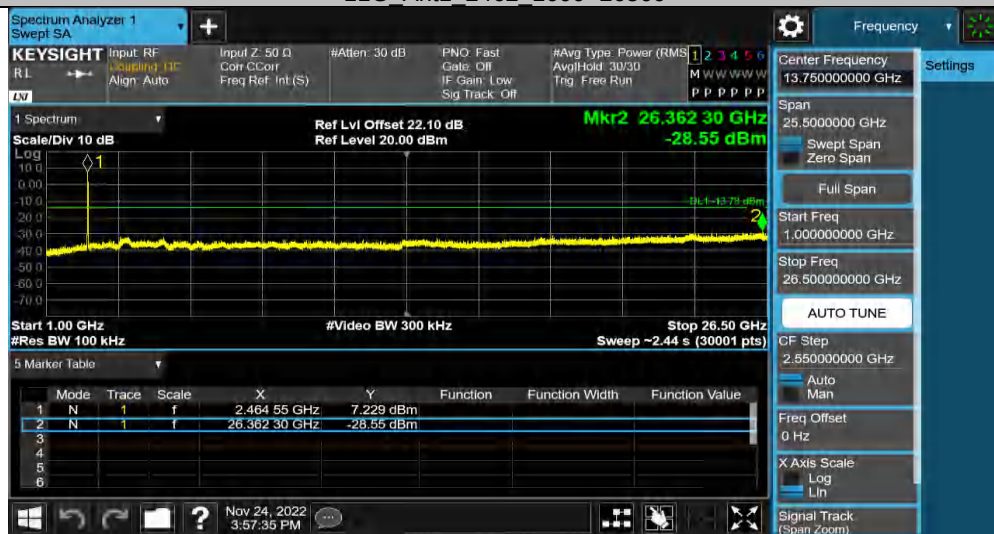
11G_Ant1_2462_0-Reference



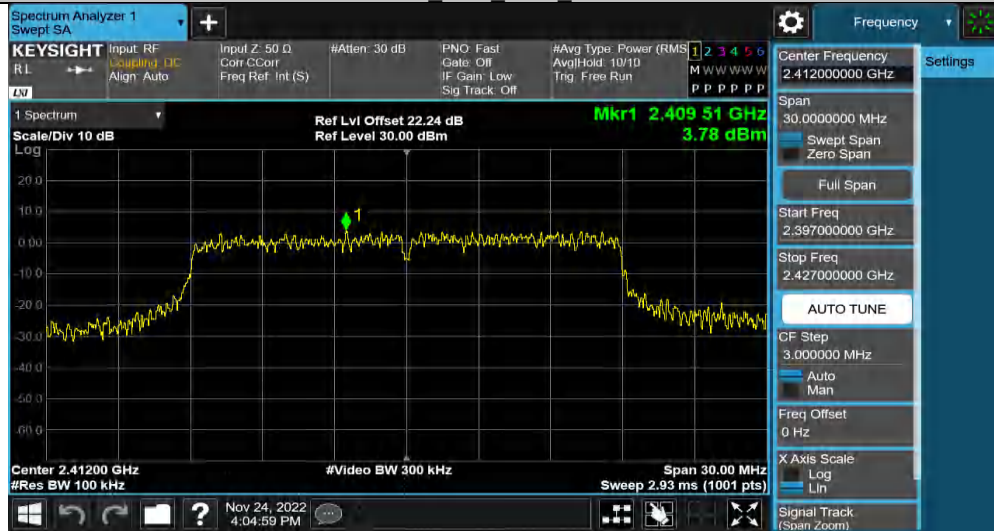
11G_Ant1_2462_30-1000



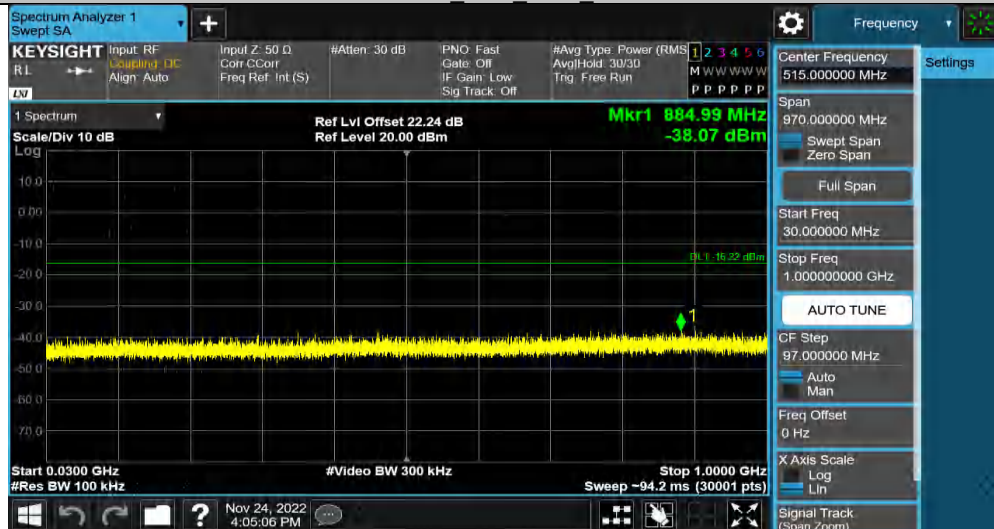
11G_Ant1_2462_1000-26500



11N20SISO_Ant1_2412_0~Reference

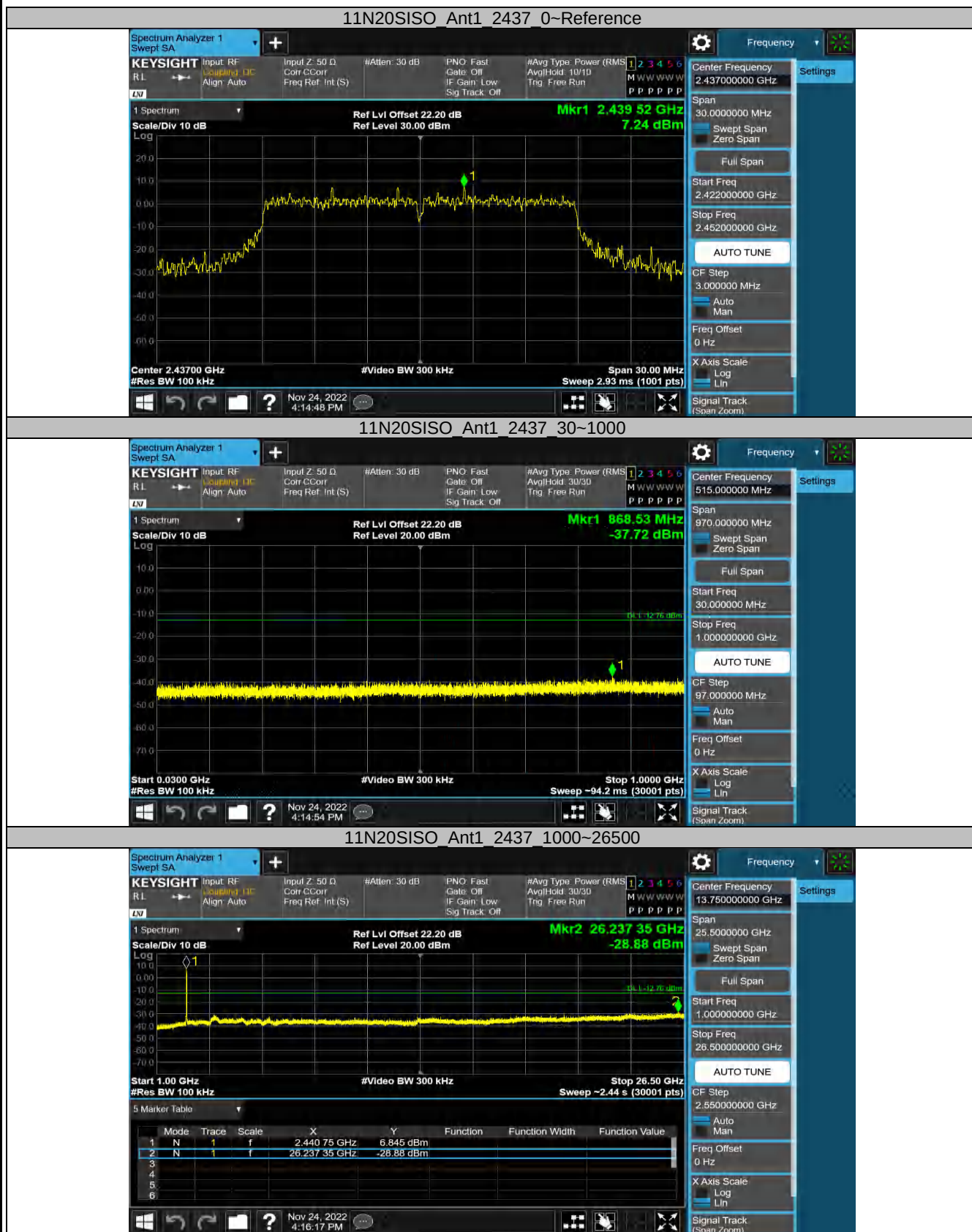


11N20SISO_Ant1_2412_30~1000

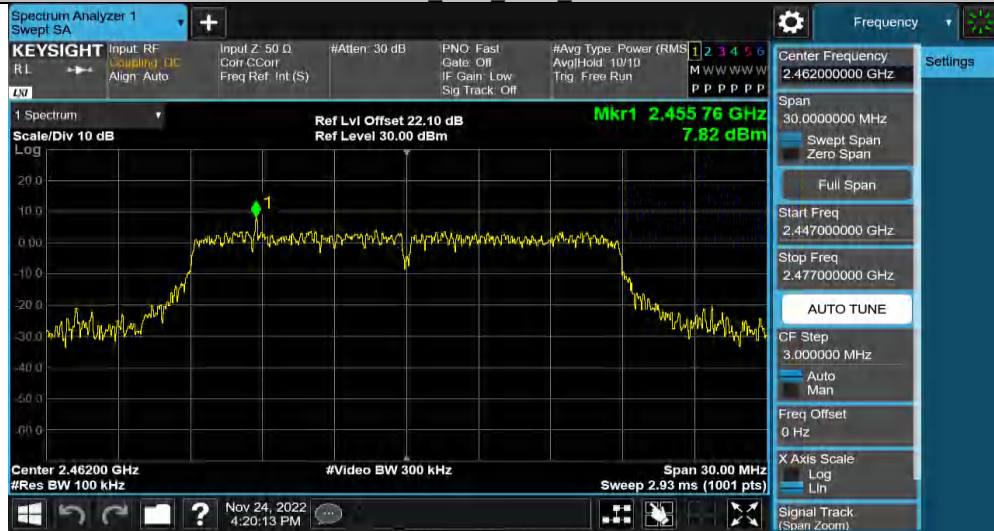


11N20SISO_Ant1_2412_1000~26500

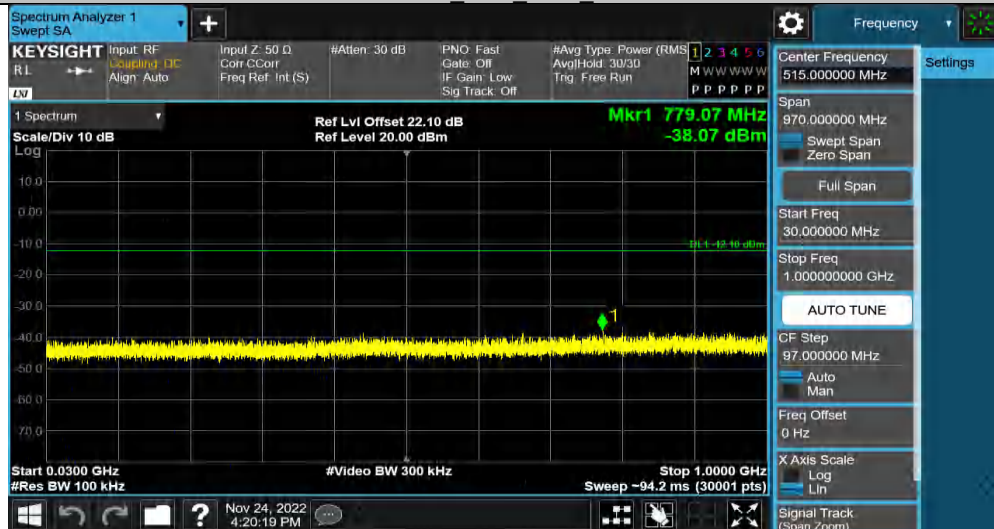




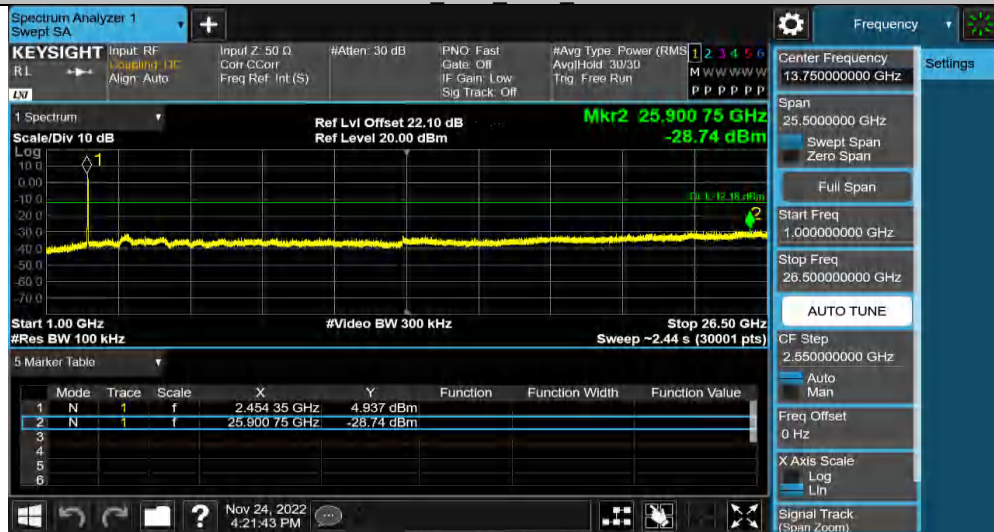
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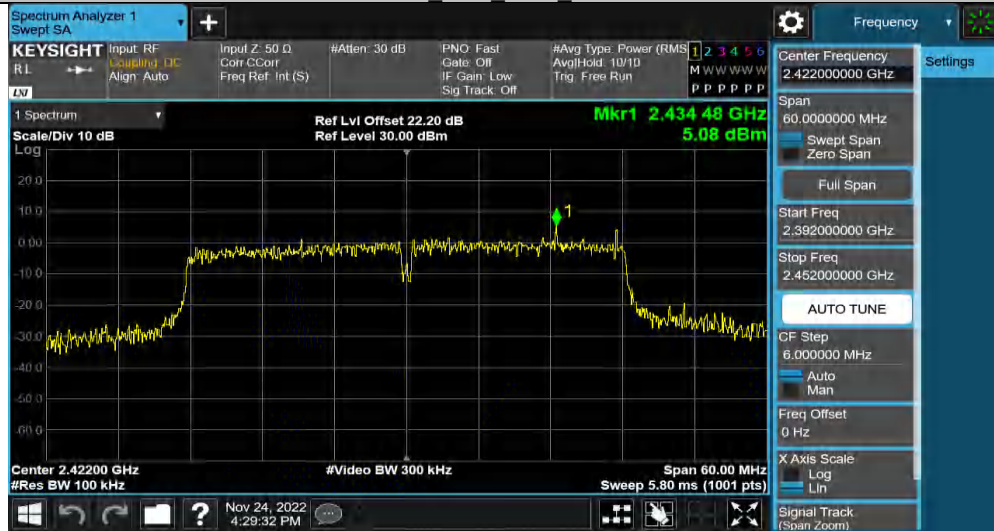
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11N20SISO_Ant1_2462_1000~26500



11N40SISO_Ant1_2422_0~Reference



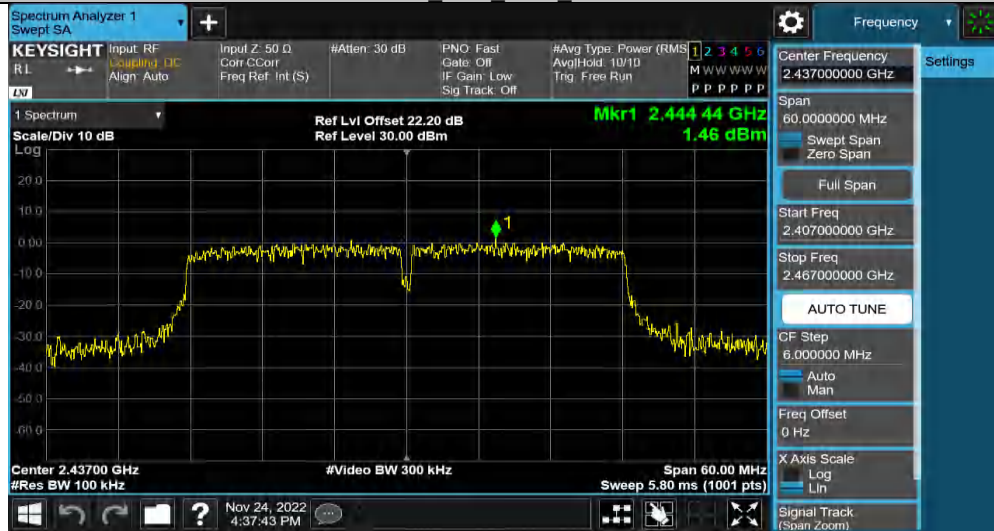
11N40SISO_Ant1_2422_30~1000



11N40SISO_Ant1_2422_1000~26500



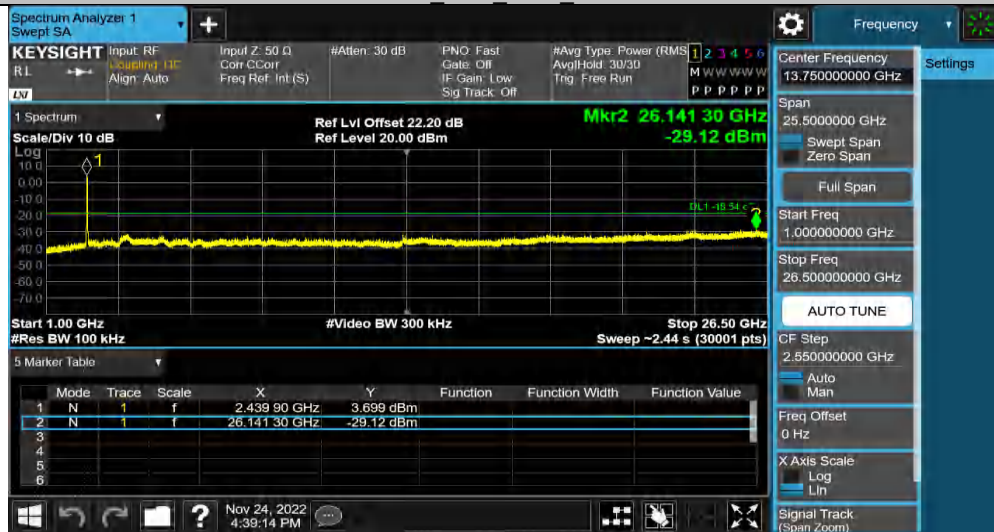
11N40SISO_Ant1_2437_0~Reference



11N40SISO_Ant1_2437_30~1000



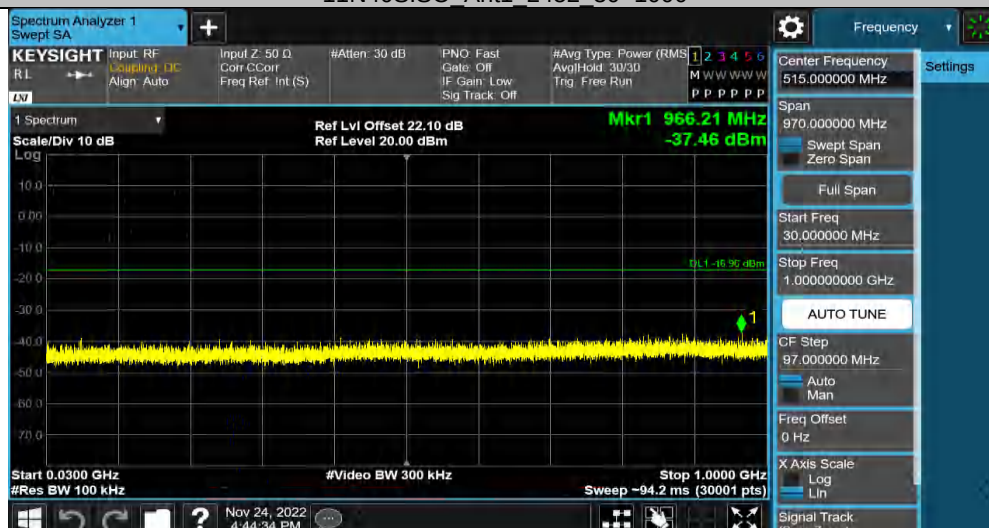
11N40SISO_Ant1_2437_1000~26500



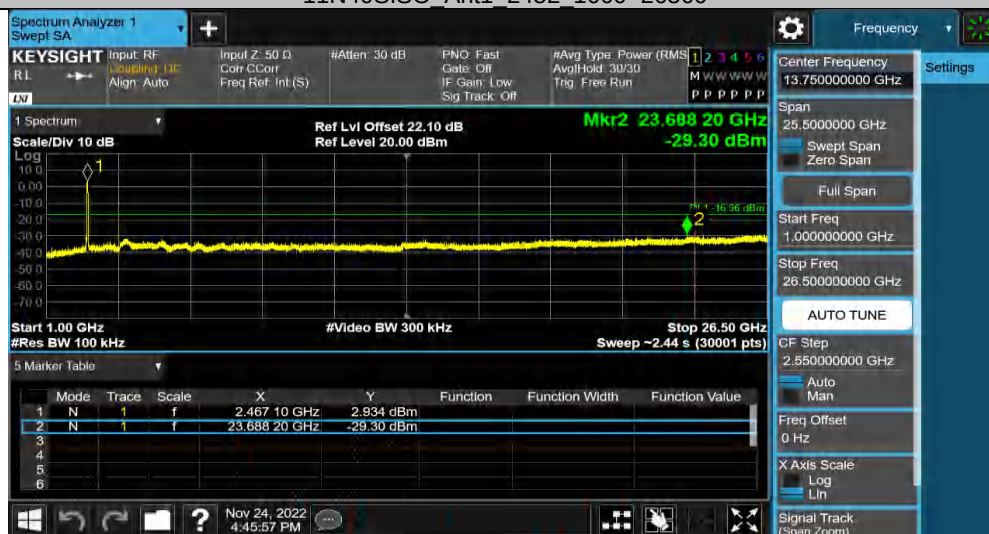
11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000



11N40SISO_Ant1_2452_1000~26500



Appendix B.5: Test Results of Radiated Spurious Emissions

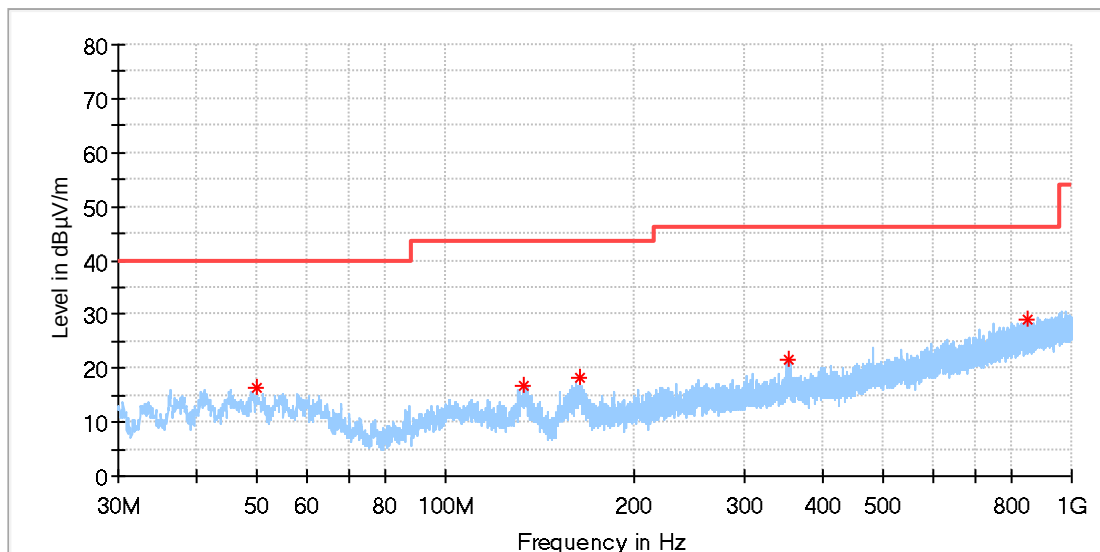
Note: 1. Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and above 18GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported. 2. This testing was carried out on different modulations,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

30MHz - 1GHz (Worst case)

Old Charging IC

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	S81USP
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168397766/A003376067-008
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

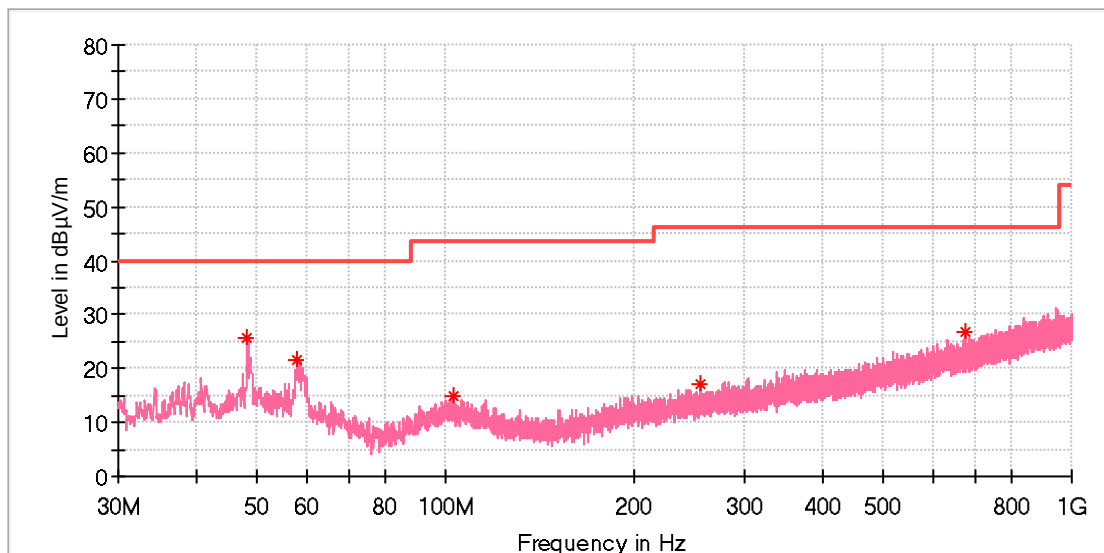
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.885000	16.21	40.00	23.79	100.0	H	75.0	-18.3
133.596000	16.85	43.50	26.65	100.0	H	61.0	-22.0
164.151000	18.16	43.50	25.34	100.0	H	274.0	-21.5
351.894500	21.76	46.00	24.24	100.0	H	206.0	-14.7
848.777000	28.84	46.00	17.16	100.0	H	240.0	-5.5

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:	S81USP
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168397766/A003376067-008
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
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)
48.284500	25.73	40.00	14.27	100.0	V	132.0	-18.4
57.984500	21.68	40.00	18.32	100.0	V	260.0	-18.8
103.041000	14.76	43.50	28.74	100.0	V	324.0	-18.8
255.816000	17.27	46.00	28.73	100.0	V	57.0	-17.1
674.904500	26.85	46.00	19.15	100.0	V	199.0	-8.5

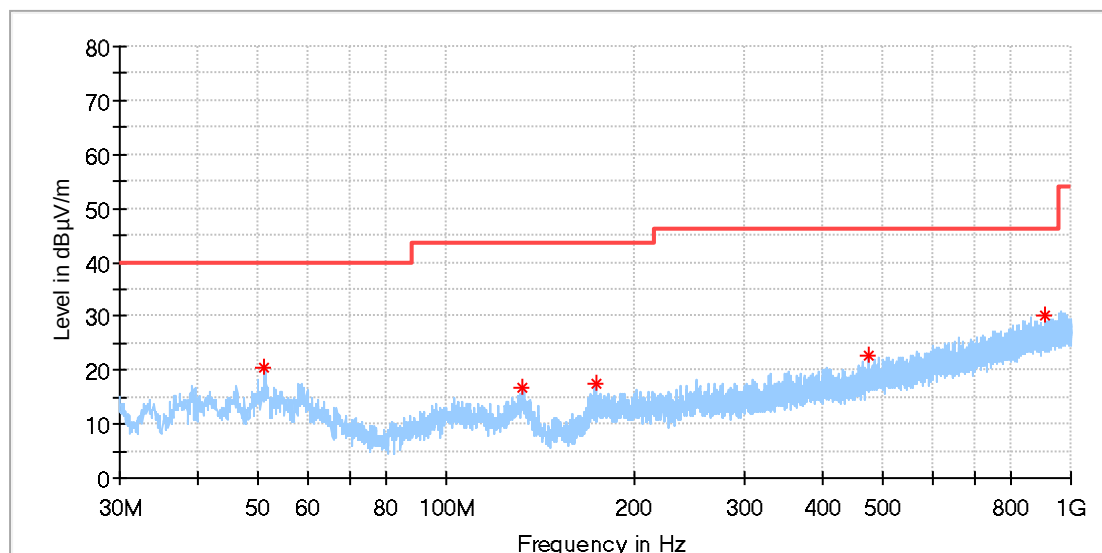
Final Result

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

EUT Information

EUT Name: Robotic Vacuum Cleaner
Model: S81USP
Test Mode: WIFI 2.4G_11b_Ch6
Order No/Sample No: 168416013/A003417505-001
Test Voltage:: Battery
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

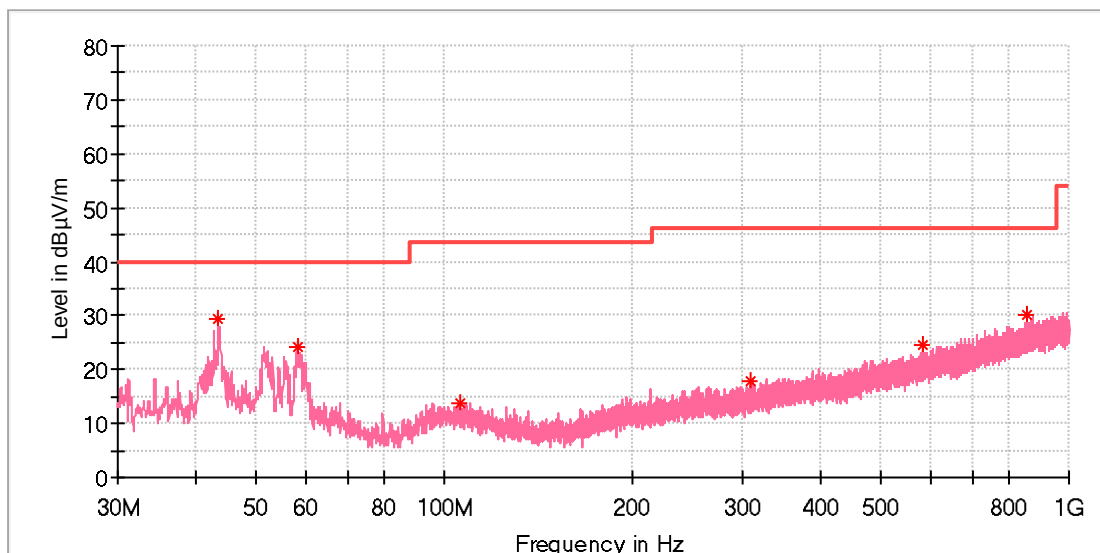
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
51.194500	20.37	40.00	19.63	100.0	H	166.0	-18.3
132.238000	16.84	43.50	26.66	100.0	H	39.0	-22.0
173.220500	17.55	43.50	25.95	100.0	H	300.0	-21.0
474.987500	22.86	46.00	23.14	100.0	H	0.0	-12.3
908.626000	30.09	46.00	15.91	100.0	H	46.0	-4.9

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: S81USP
Test Mode: WIFI 2.4G_11b_Ch6
Order No/Sample No: 168416013/A003417505-001
Test Voltage:: Battery
Remark: Temp 23 Humi:58%
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)
43.386000	29.44	40.00	10.56	100.0	V	124.0	-19.2
58.178500	24.07	40.00	15.93	100.0	V	157.0	-18.8
105.805500	13.88	43.50	29.62	100.0	V	210.0	-18.8
308.875000	18.03	46.00	27.97	100.0	V	92.0	-16.0
583.482000	24.46	46.00	21.54	100.0	V	282.0	-10.2
858.186000	30.21	46.00	15.79	100.0	V	194.0	-5.4

Final Result

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

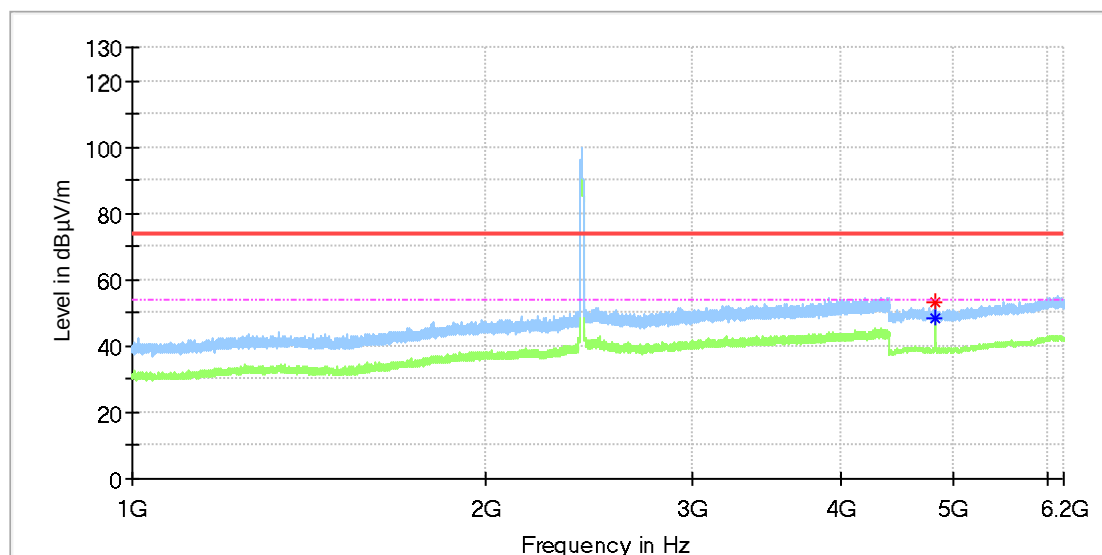
1GHz - 18GHz

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

Old Charging IC

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	S81USP
Test Mode:	WIFI 2.4G_11b_Ch1
Order No/Sample No:	168397766/A003376067-008
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

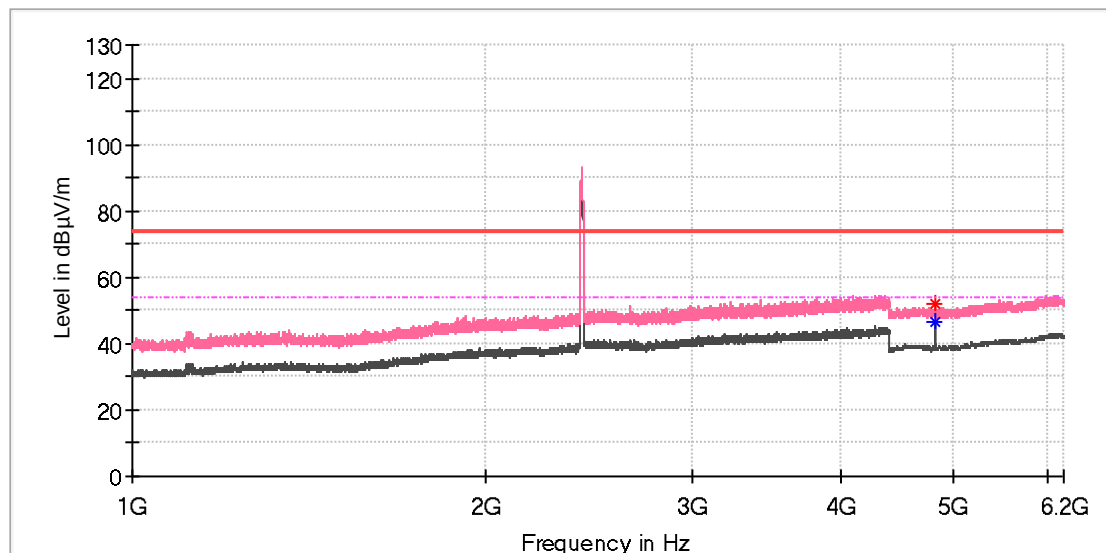
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4824.000000	---	48.12	54.00	5.88	100.0	H	219.0	11.8
4824.000000	53.46	---	74.00	20.54	100.0	H	219.0	11.8

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: S81USP
Test Mode: WIFI 2.4G_11b_Ch1
Order No/Sample No: 168397766/A003376067-008
Test Voltage: Battery
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

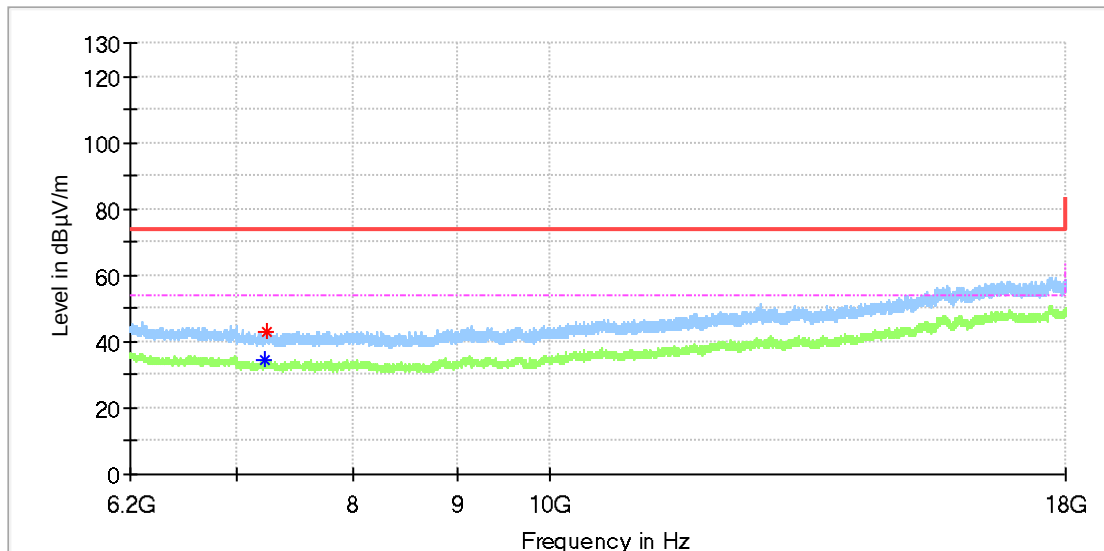
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4824.000000	52.11	---	74.00	21.89	100.0	V	124.0	11.8
4824.000000	---	46.64	54.00	7.36	100.0	V	124.0	11.8

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:	S81USP
Test Mode:	WIFI 2.4G_11b_Ch1
Order No/Sample No:	168397766/A003376067-008
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

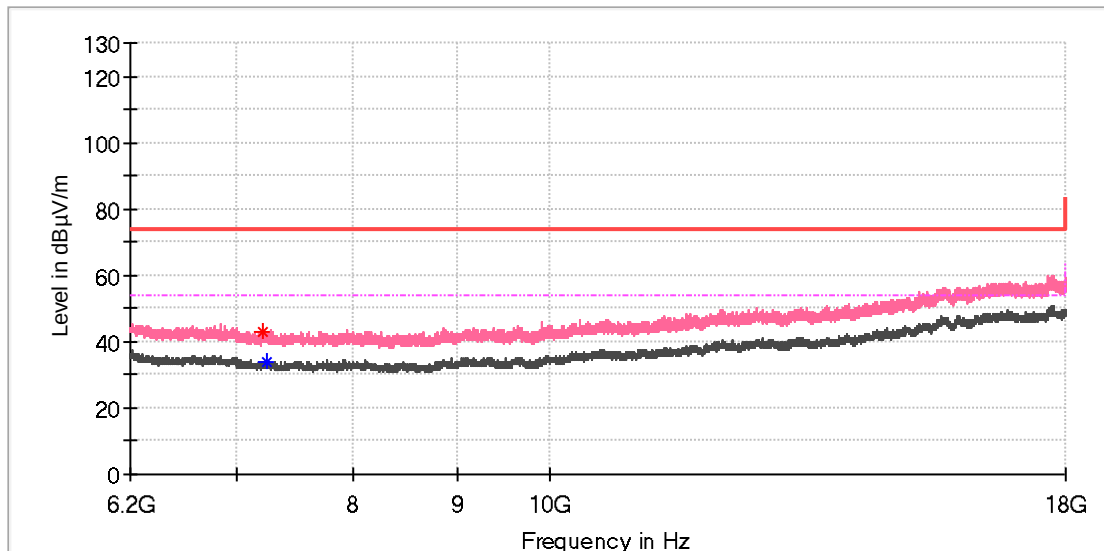
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7220.700000	---	34.18	54.00	19.82	100.0	H	0.0	8.7
7237.416667	42.84	---	74.00	31.16	100.0	H	132.0	8.6

Final Result

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

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	S81USP
Test Mode:	WIFI 2.4G_11b_Ch1
Order No/Sample No:	168397766/A003376067-008
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

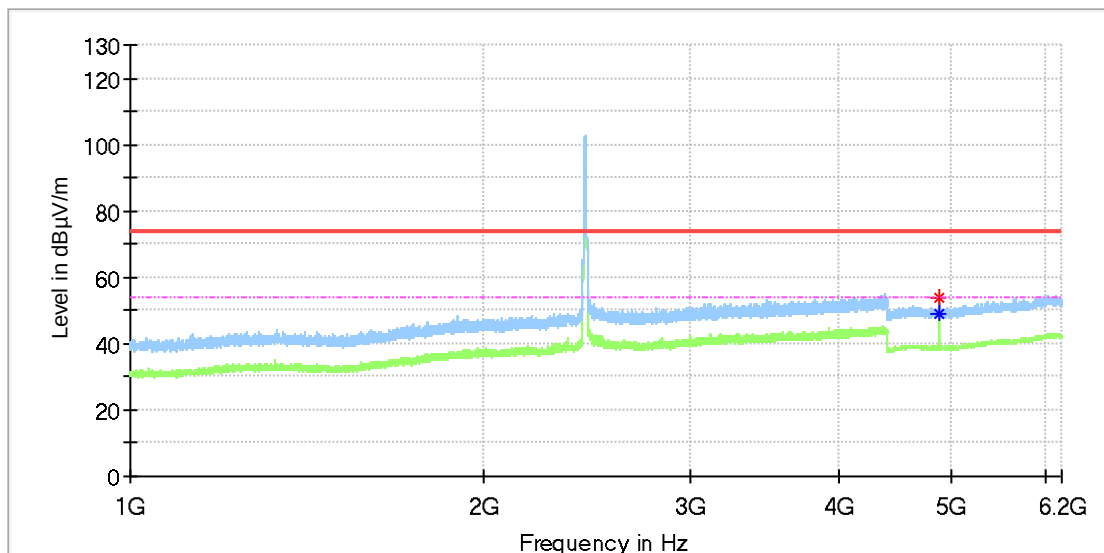
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7211.850000	42.98	---	74.00	31.02	100.0	V	233.0	8.7
7236.433333	---	33.89	54.00	20.11	100.0	V	0.0	8.6

Final Result

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

EUT Information

EUT Name: Robotic Vacuum Cleaner
Model: S81USP
Test Mode: WIFI 2.4G_11b_Ch6
Order No/Sample No: 168397766/A003376067-008
Test Voltage: Battery
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

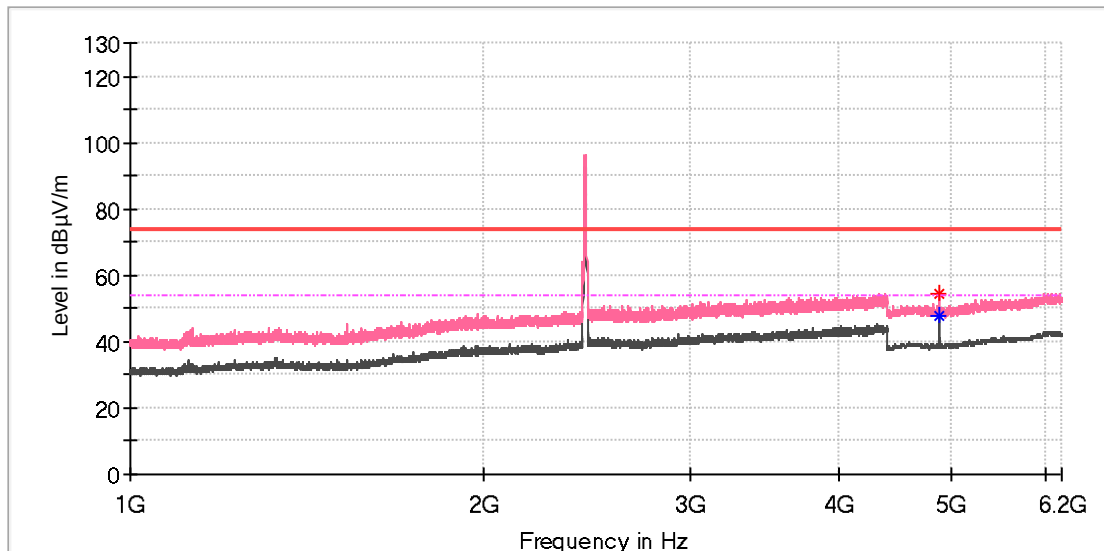
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4874.000000	---	48.86	54.00	5.14	100.0	H	227.0	11.8
4874.000000	53.78	---	74.00	20.22	100.0	H	227.0	11.8

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: S81USP
Test Mode: WIFI 2.4G_11b_Ch6
Order No/Sample No: 168397766/A003376067-008
Test Voltage: Battery
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

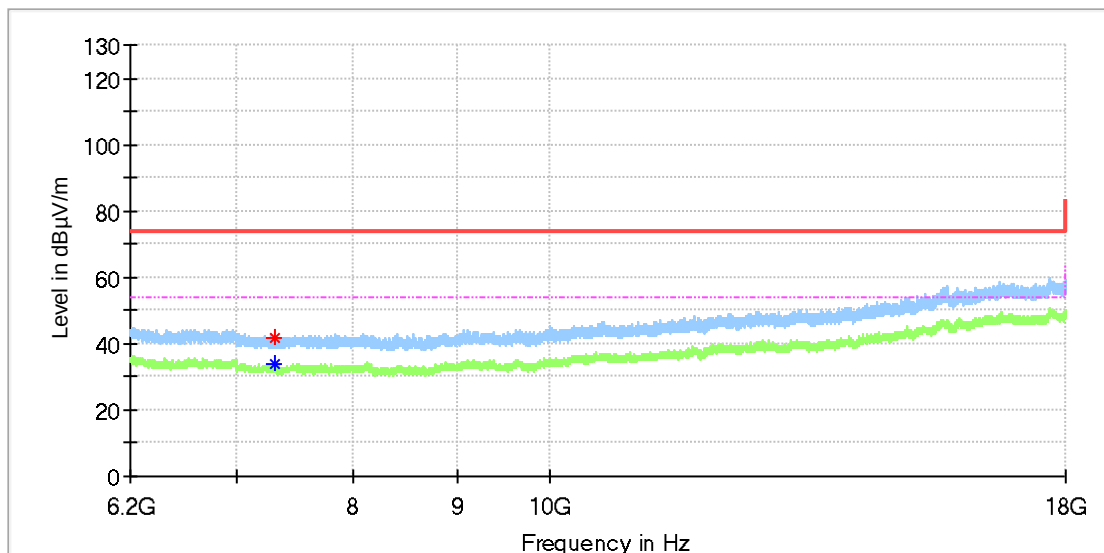
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4873.500000	---	48.05	54.00	5.95	100.0	V	120.0	11.8
4874.000000	54.29	---	74.00	19.71	100.0	V	127.0	11.8

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: S81USP
Test Mode: WIFI 2.4G_11b_Ch6
Order No/Sample No: 168397766/A003376067-008
Test Voltage: Battery
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

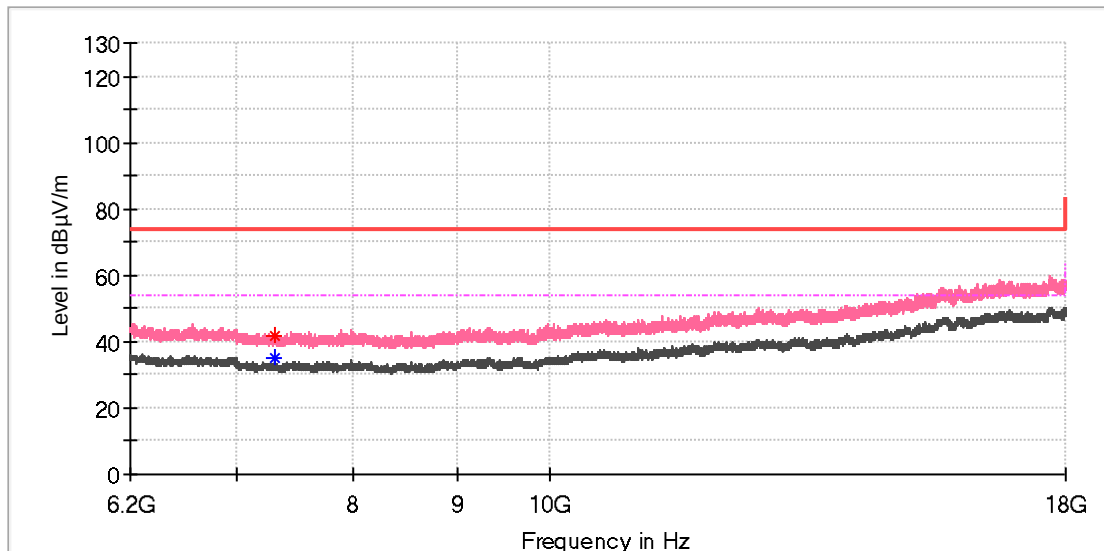
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7308.708333	41.57	---	74.00	32.43	100.0	H	18.0	8.2
7311.658333	---	33.57	54.00	20.43	100.0	H	275.0	8.2

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:	S81USP
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168397766/A003376067-008
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

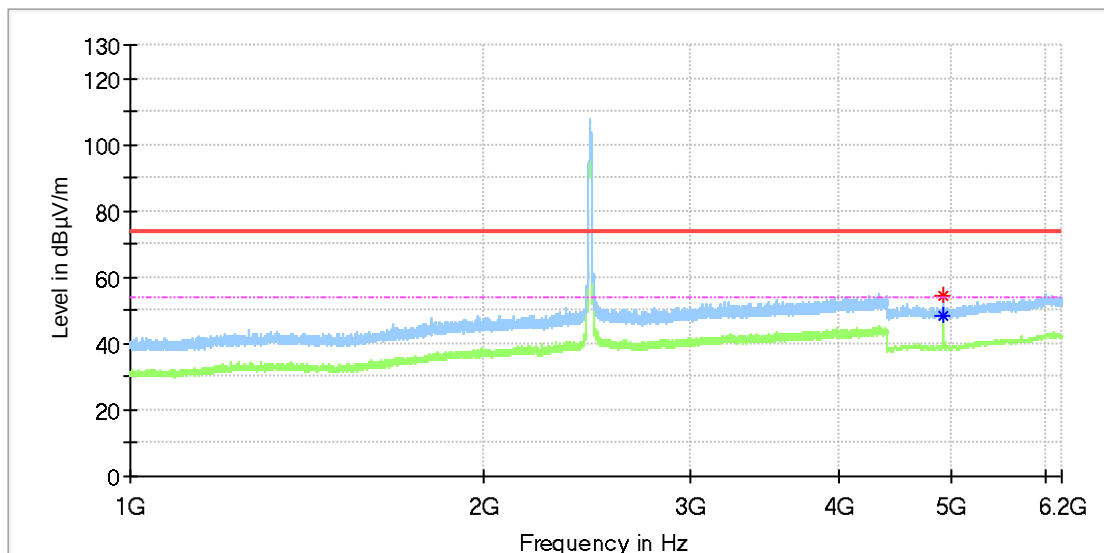
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7310.183333	41.96	---	74.00	32.04	100.0	V	0.0	8.2
7310.183333	---	34.98	54.00	19.02	100.0	V	0.0	8.2

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:	S81USP
Test Mode:	WIFI 2.4G_11b_Ch11
Order No/Sample No:	168397766/A003376067-008
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

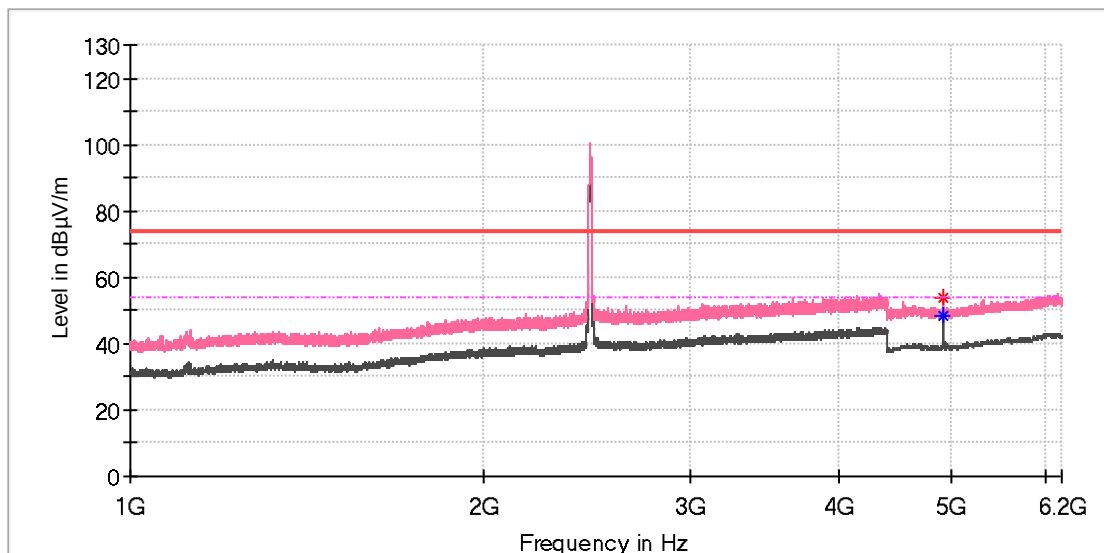
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4923.500000	54.52	---	74.00	19.48	100.0	H	289.0	11.8
4923.500000	---	48.36	54.00	5.64	100.0	H	289.0	11.8

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:	S81USP
Test Mode:	WIFI 2.4G_11b_Ch11
Order No/Sample No:	168397766/A003376067-008
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

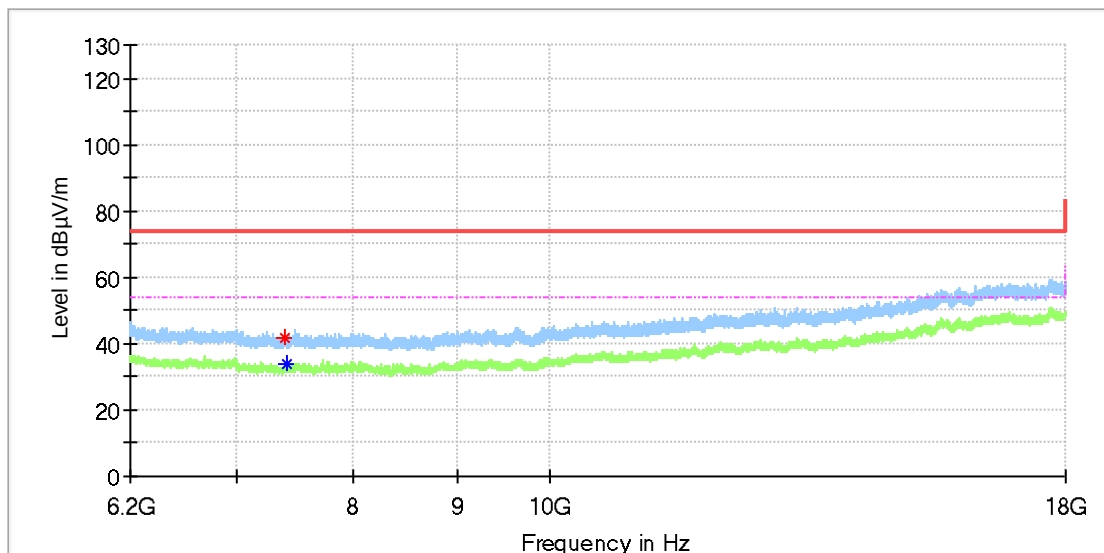
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4923.500000	---	48.09	54.00	5.91	100.0	V	120.0	11.8
4924.000000	53.78	---	74.00	20.22	100.0	V	120.0	11.8

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: S81USP
Test Mode: WIFI 2.4G_11b_Ch11
Order No/Sample No: 168397766/A003376067-008
Test Voltage: Battery
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

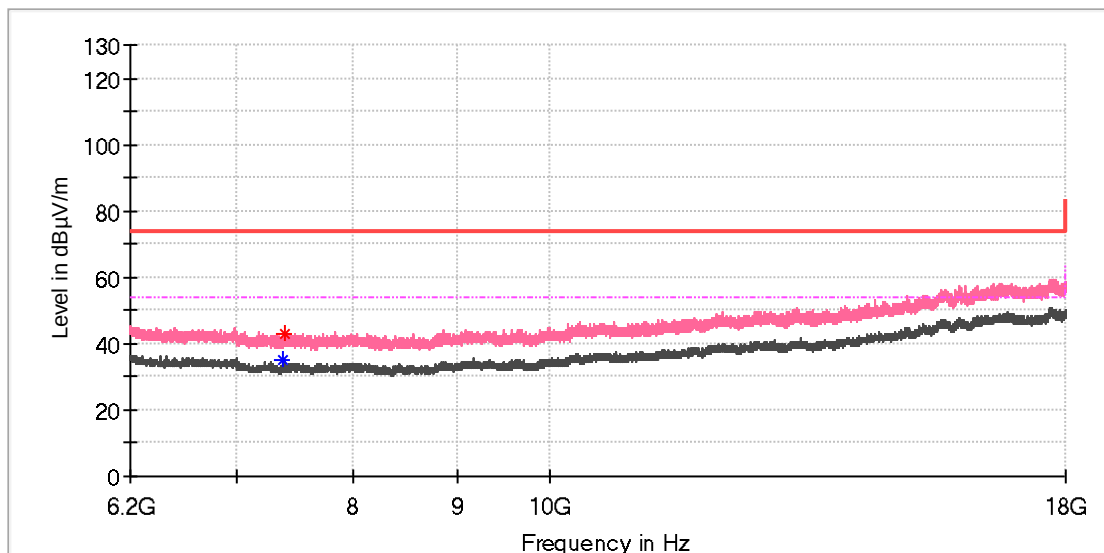
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7388.358333	41.61	---	74.00	32.39	100.0	H	23.0	8.2
7410.483333	---	33.83	54.00	20.17	100.0	H	95.0	8.3

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:	S81USP
Test Mode:	WIFI 2.4G_11b_Ch11
Order No/Sample No:	168397766/A003376067-008
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

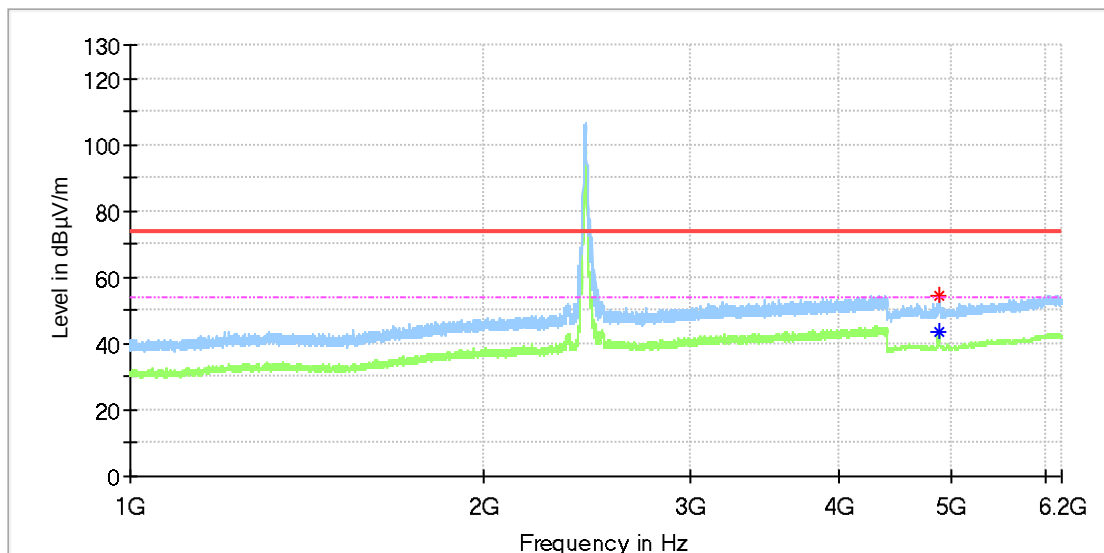
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7384.916667	---	34.93	54.00	19.07	100.0	V	341.0	8.2
7386.883333	42.85	---	74.00	31.15	100.0	V	0.0	8.2

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: S81USP
Test Mode: WIFI 2.4G_11g_Ch6
Order No/Sample No: 168397766/A003376067-008
Test Voltage: Battery
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

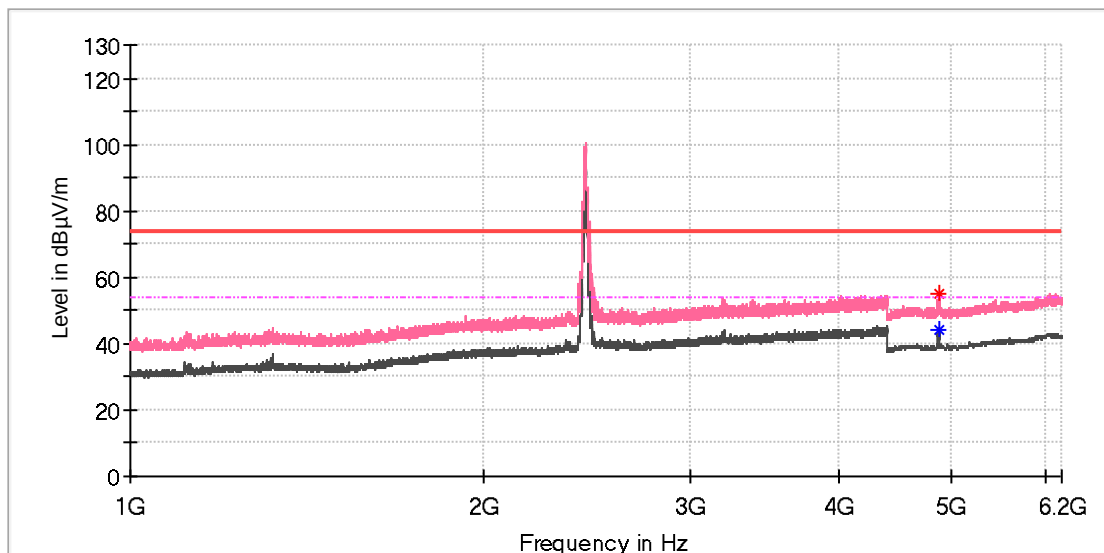
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4873.500000	---	43.48	54.00	10.52	100.0	H	225.0	11.8
4875.000000	54.46	---	74.00	19.54	100.0	H	225.0	11.8

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: S81USP
Test Mode: WIFI 2.4G_11g_Ch6
Order No/Sample No: 168397766/A003376067-008
Test Voltage: Battery
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

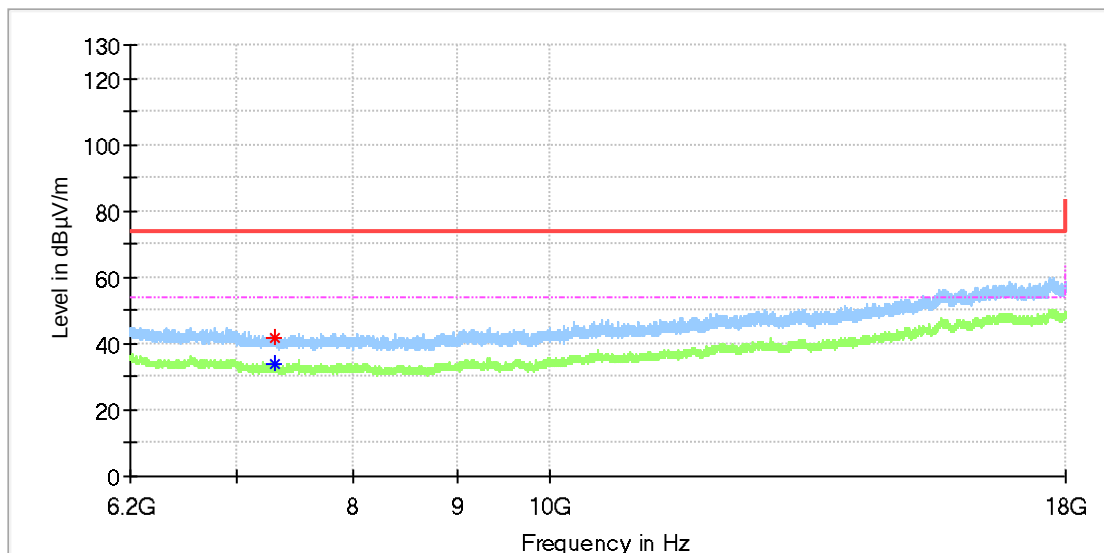
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4870.500000	---	44.29	54.00	9.71	100.0	V	122.0	11.8
4875.000000	54.78	---	74.00	19.22	100.0	V	122.0	11.8

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: S81USP
Test Mode: WIFI 2.4G_11g_Ch6
Order No/Sample No: 168397766/A003376067-008
Test Voltage: Battery
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

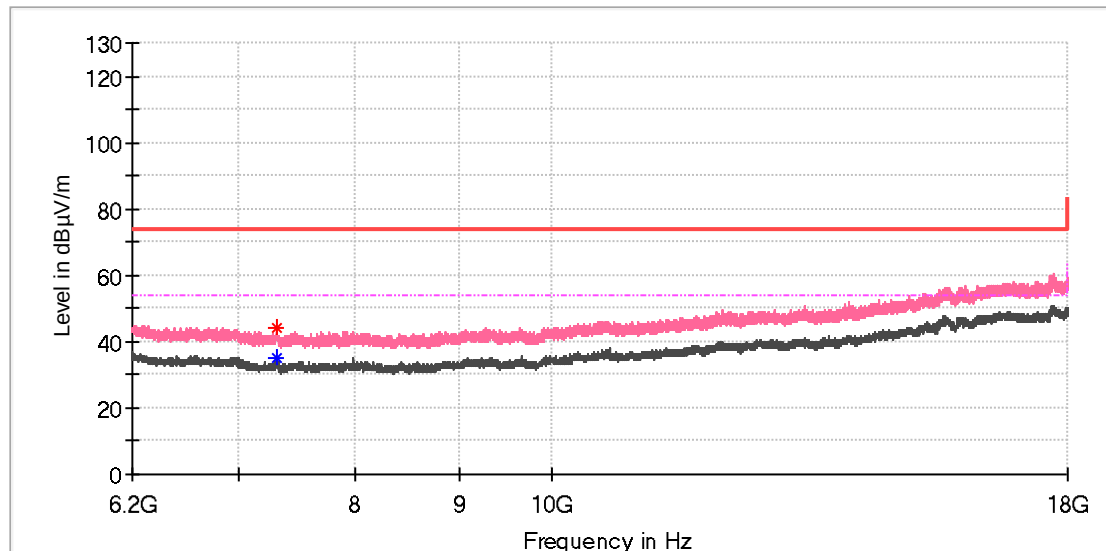
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7302.808333	---	34.08	54.00	19.92	100.0	H	4.0	8.3
7309.200000	41.67	---	74.00	32.33	100.0	H	4.0	8.2

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: S81USP
Test Mode: WIFI 2.4G_11g_Ch6
Order No/Sample No: 168397766/A003376067-008
Test Voltage: Battery
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

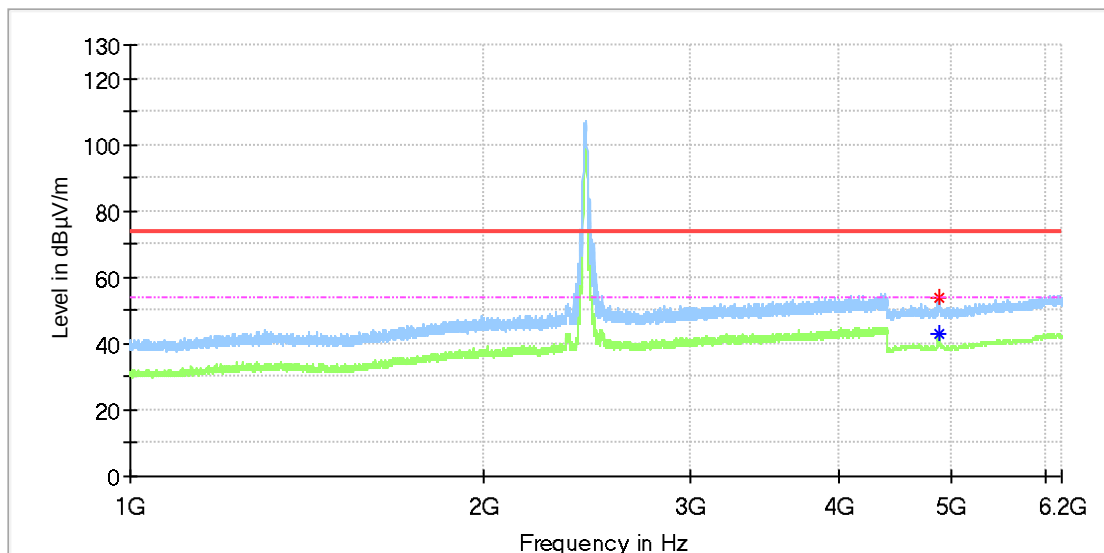
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7307.233333	---	34.80	54.00	19.20	100.0	V	0.0	8.3
7317.066667	44.39	---	74.00	29.61	100.0	V	359.0	8.2

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: S81USP
Test Mode: WIFI 2.4G_11n20_Ch6
Order No/Sample No: 168397766/A003376067-008
Test Voltage: Battery
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

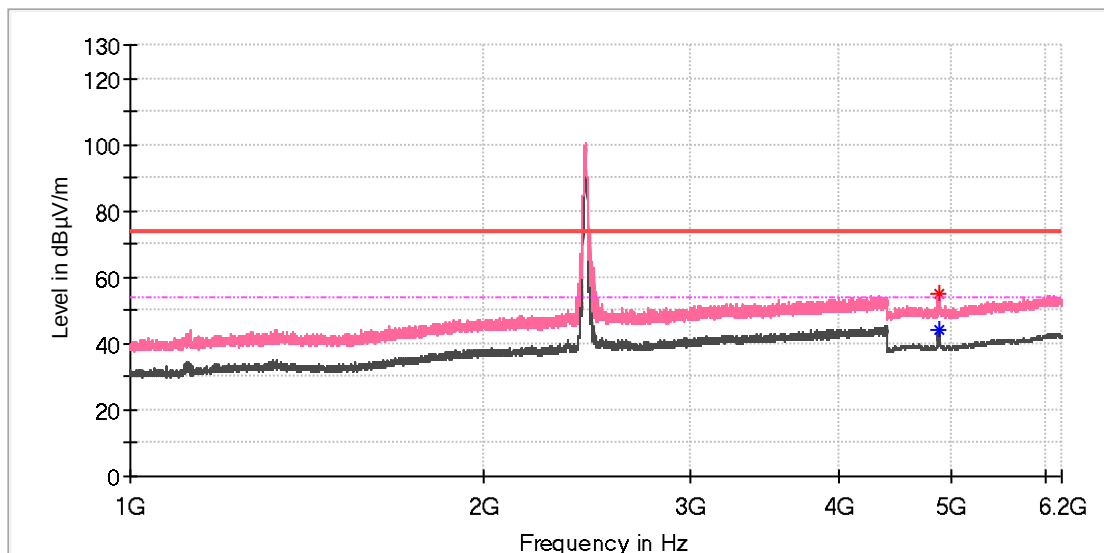
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4872.000000	---	42.94	54.00	11.06	100.0	H	228.0	11.8
4874.000000	53.82	---	74.00	20.18	100.0	H	228.0	11.8

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:	S81USP
Test Mode:	WIFI 2.4G_11n20_Ch6
Order No/Sample No:	168397766/A003376067-008
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

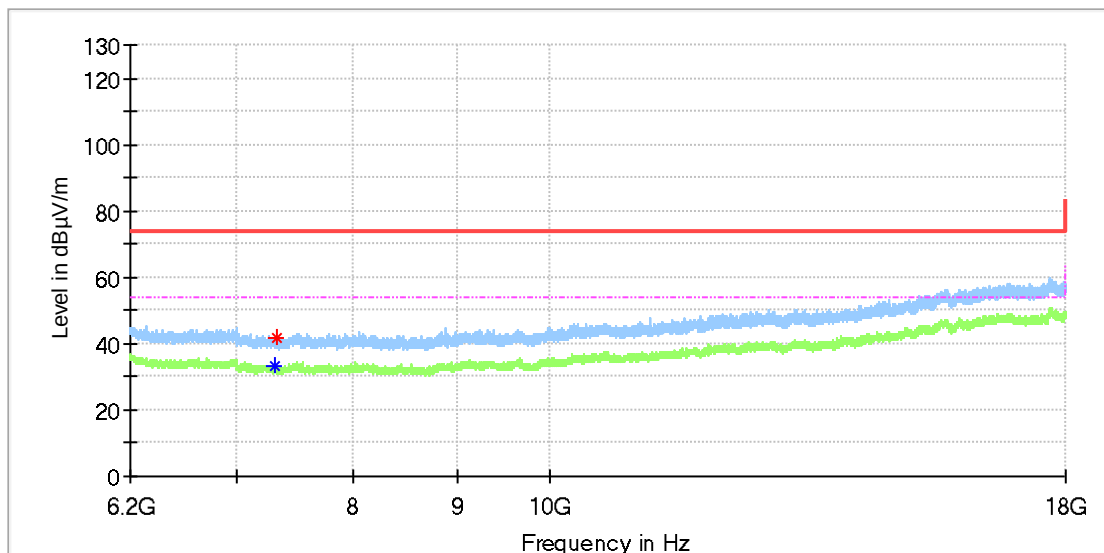
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4874.000000	---	44.13	54.00	9.87	100.0	V	125.0	11.8
4876.500000	54.97	---	74.00	19.03	100.0	V	125.0	11.8

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: S81USP
Test Mode: WIFI 2.4G_11n20_Ch6
Order No/Sample No: 168397766/A003376067-008
Test Voltage: Battery
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

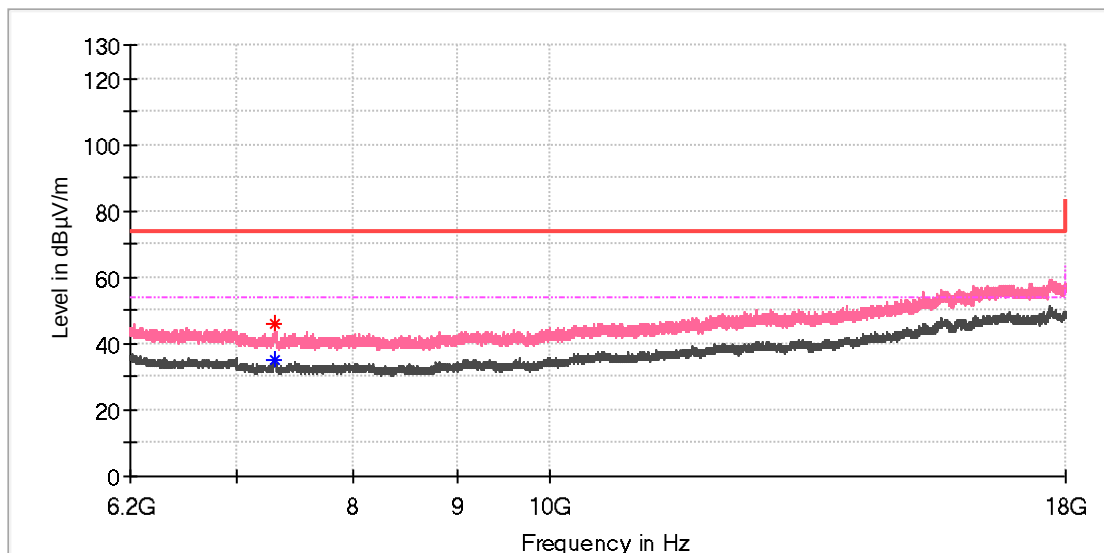
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7306.741667	---	33.53	54.00	20.47	100.0	H	90.0	8.3
7325.425000	41.74	---	74.00	32.26	100.0	H	341.0	8.2

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: S81USP
Test Mode: WIFI 2.4G_11n20_Ch6
Order No/Sample No: 168397766/A003376067-008
Test Voltage: Battery
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

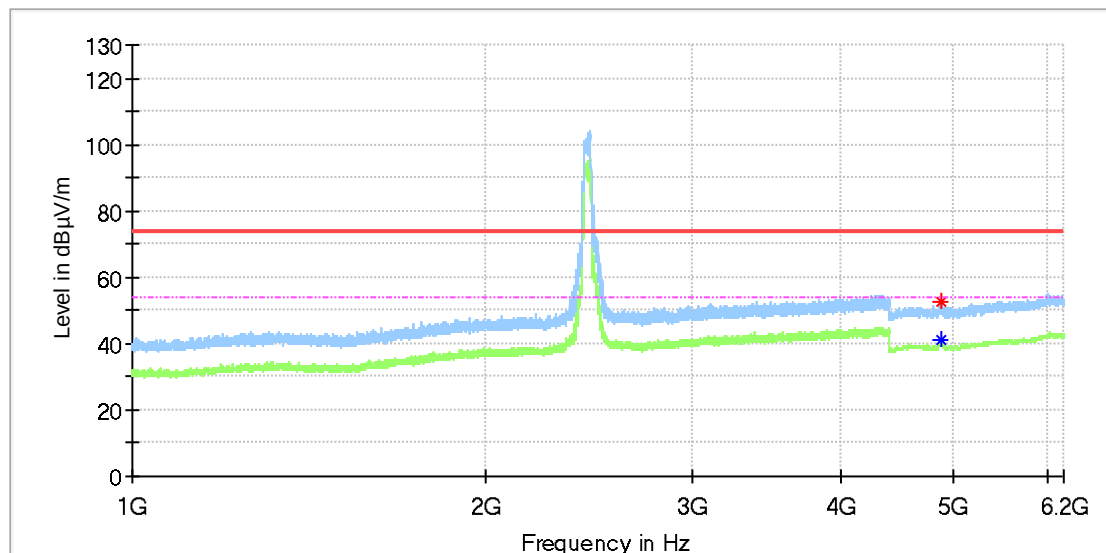
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7308.216667	45.81	---	74.00	28.19	100.0	V	357.0	8.2
7315.591667	---	35.24	54.00	18.76	100.0	V	0.0	8.2

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: S81USP
Test Mode: WIFI 2.4G_11n40_Ch6
Order No/Sample No: 168397766/A003376067-008
Test Voltage: Battery
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

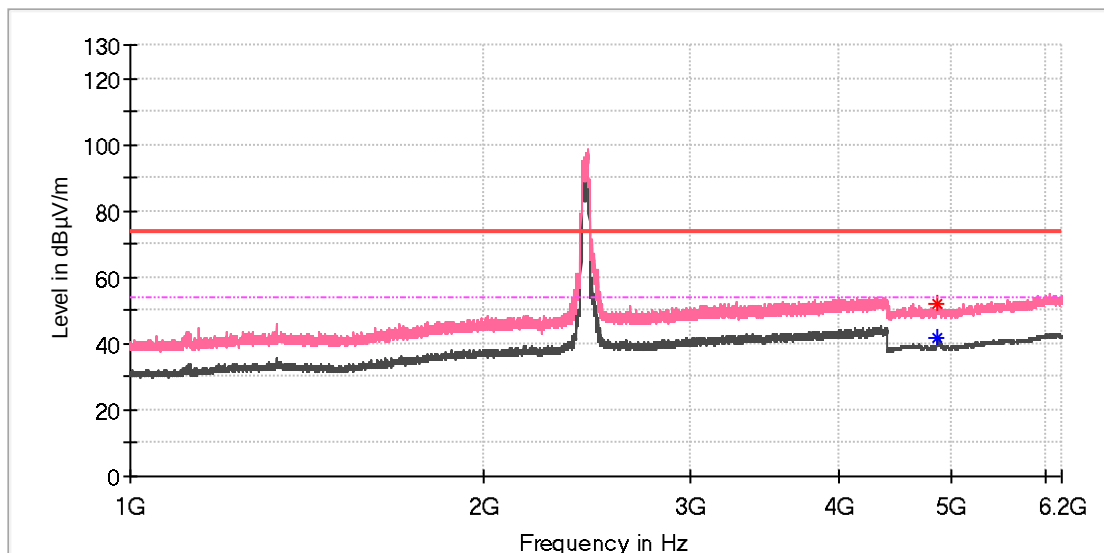
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4869.500000	52.69	---	74.00	21.31	100.0	H	305.0	11.8
4872.500000	---	41.19	54.00	12.81	100.0	H	113.0	11.8

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: S81USP
Test Mode: WIFI 2.4G_11n40_Ch6
Order No/Sample No: 168397766/A003376067-008
Test Voltage: Battery
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

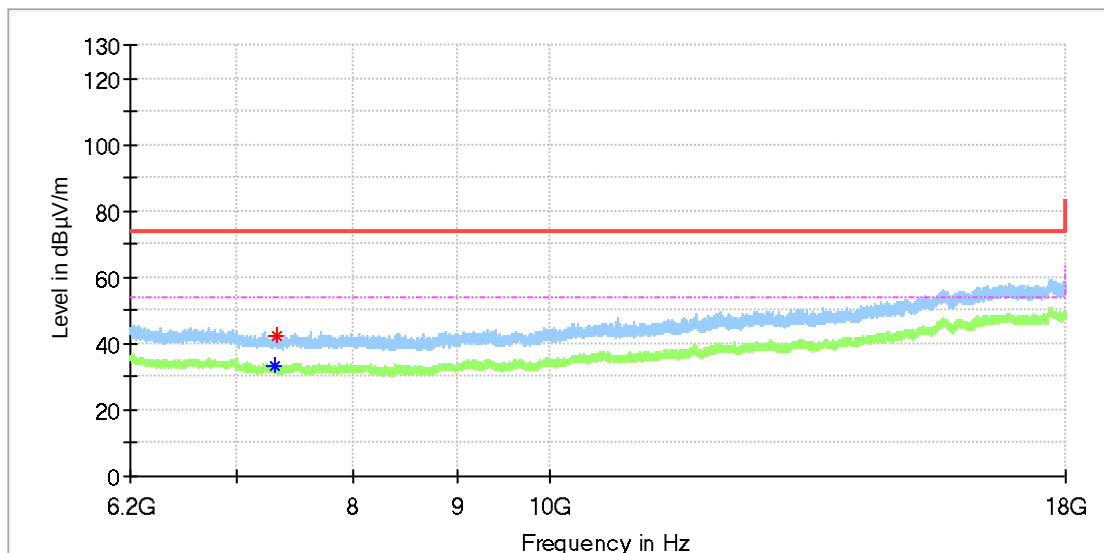
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4863.000000	51.85	---	74.00	22.15	100.0	V	123.0	11.8
4868.000000	---	41.75	54.00	12.25	100.0	V	123.0	11.8

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: S81USP
Test Mode: WIFI 2.4G_11n40_Ch6
Order No/Sample No: 168397766/A003376067-008
Test Voltage: Battery
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

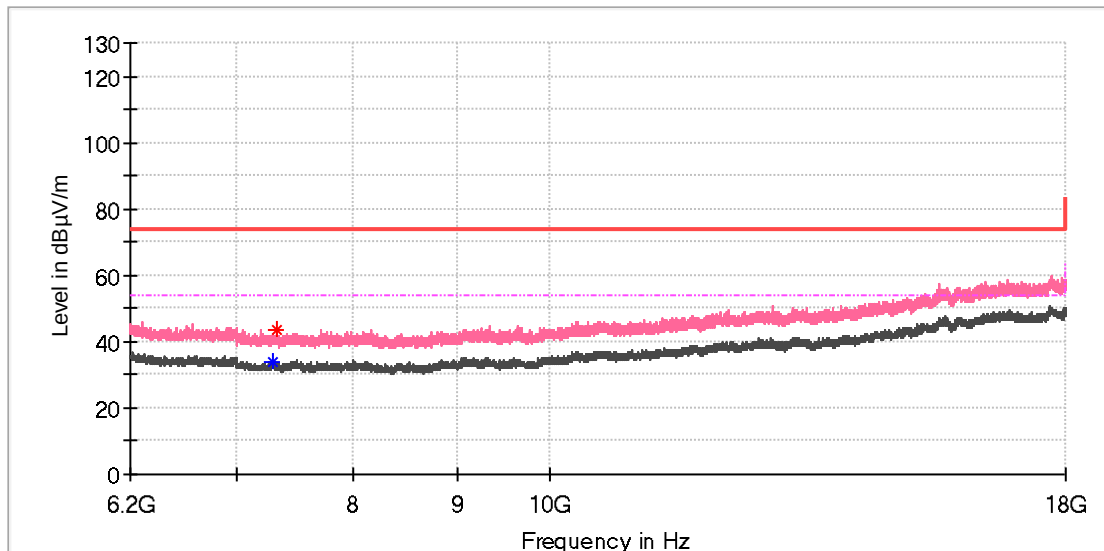
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7317.066667	---	33.18	54.00	20.82	100.0	H	358.0	8.2
7324.441667	42.35	---	74.00	31.65	100.0	H	117.0	8.2

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:	S81USP
Test Mode:	WIFI 2.4G_11n40_Ch6
Order No/Sample No:	168397766/A003376067-008
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
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)
7297.891667	---	34.03	54.00	19.97	100.0	V	0.0	8.3
7323.458333	43.33	---	74.00	30.67	100.0	V	0.0	8.2

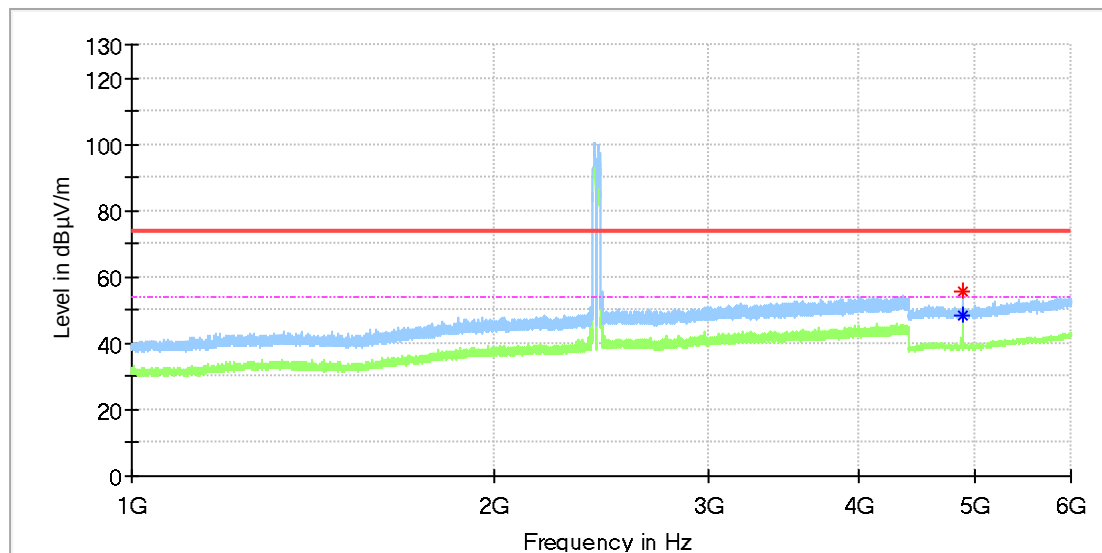
Final Result

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

New Charging IC

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	S81USP
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168416013/A003417505-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

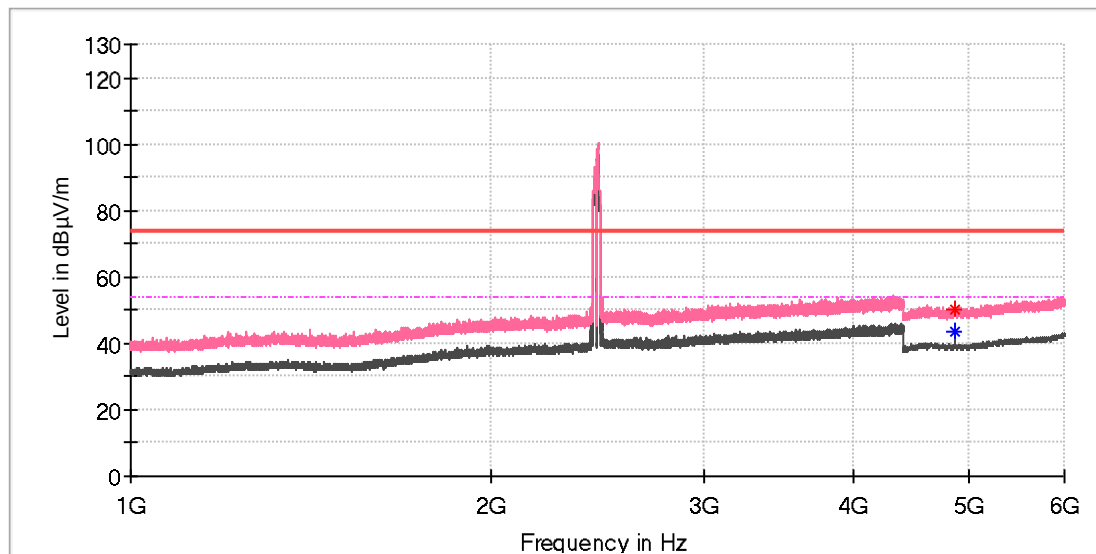
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4874.000000	55.68	---	74.00	18.32	100.0	H	67.0	11.8
4874.500000	---	48.44	54.00	5.56	100.0	H	67.0	11.8

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: S81USP
Test Mode: WIFI 2.4G_11b_Ch6
Order No/Sample No: 168416013/A003417505-001
Test Voltage:: Battery
Remark: Temp 23 Humi:58%
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)
4870.666667	---	43.43	54.00	10.57	100.0	V	30.0	11.8
4871.111111	49.99	---	74.00	24.01	100.0	V	30.0	11.8

Final Result

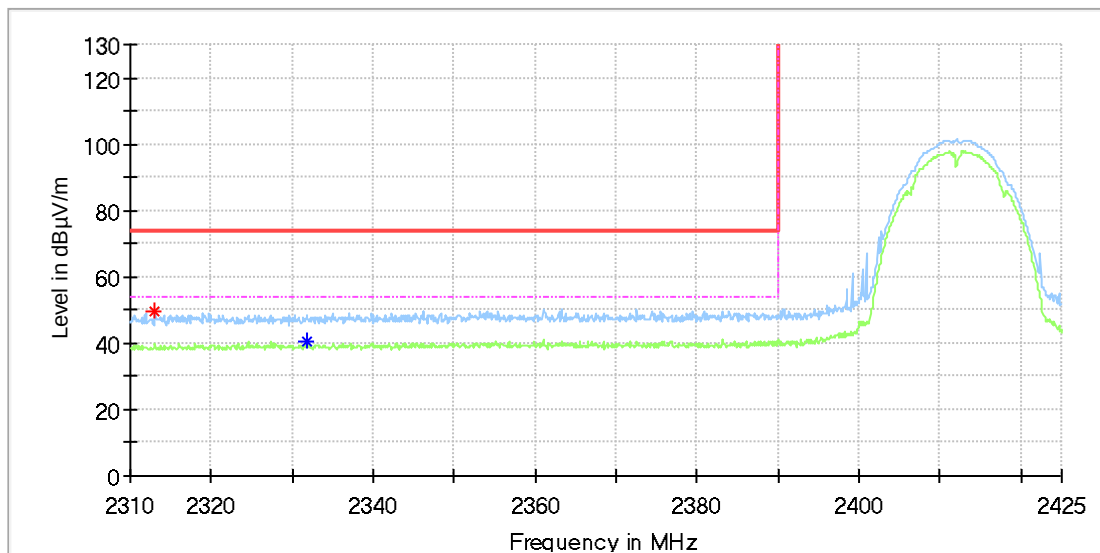
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

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

Wi-Fi 802.11 b mode, 1 Mbps

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	S81USP
Test Mode:	WIFI 2.4G_11b_Ch1
Order No/Sample No:	168397766/A003376067-008
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

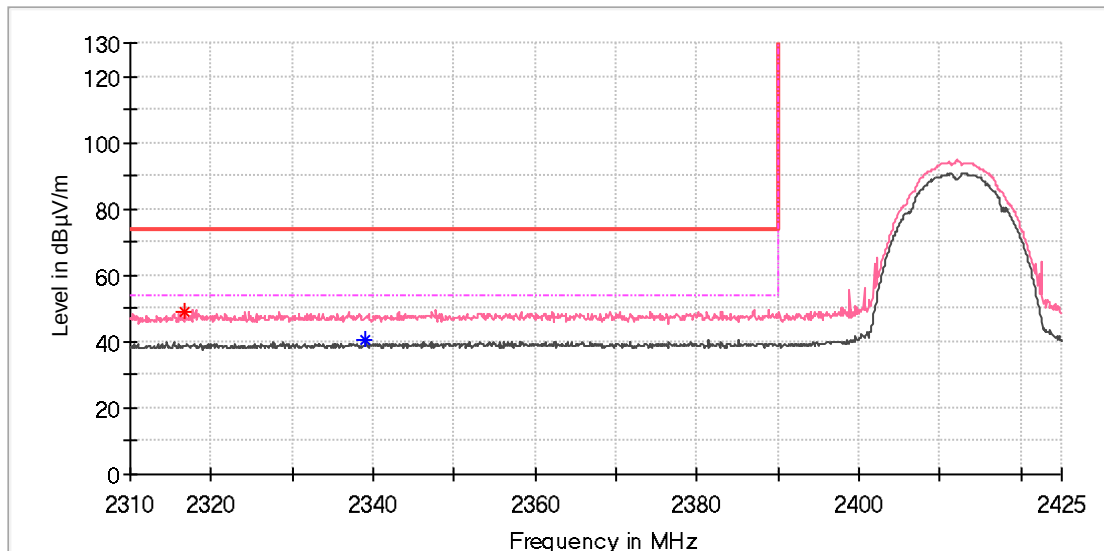
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2313.000000	49.61	---	74.00	24.39	100.0	H	320.0	6.5
2331.700000	---	40.55	54.00	13.46	100.0	H	120.0	6.7

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:	S81USP
Test Mode:	WIFI 2.4G_11b_Ch1
Order No/Sample No:	168397766/A003376067-008
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

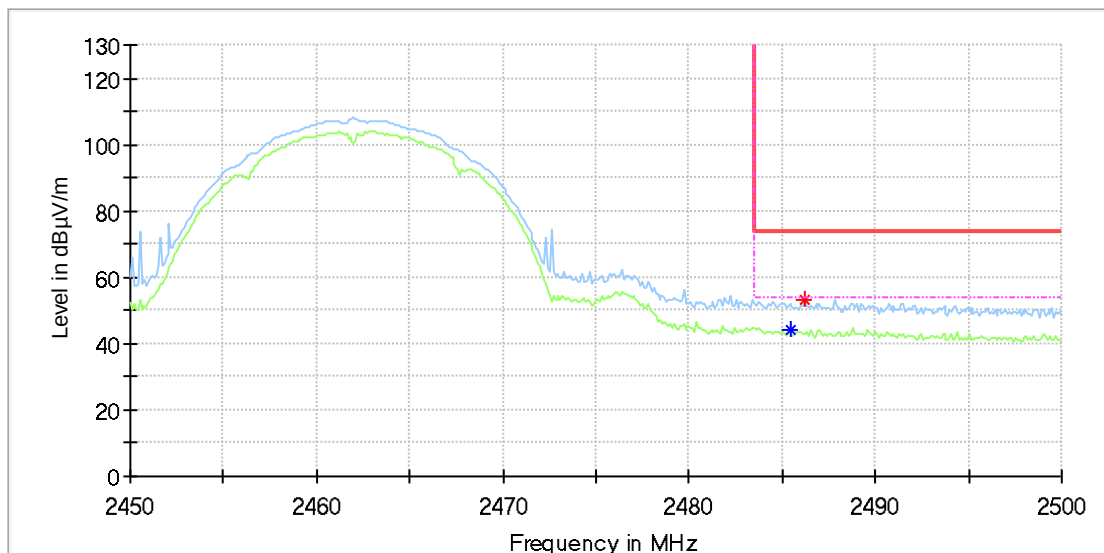
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2316.800000	48.92	---	74.00	25.08	100.0	V	7.0	6.6
2339.100000	---	40.23	54.00	13.77	100.0	V	205.0	6.8

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:	S81USP
Test Mode:	WIFI 2.4G_11b_Ch11
Order No/Sample No:	168397766/A003376067-008
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

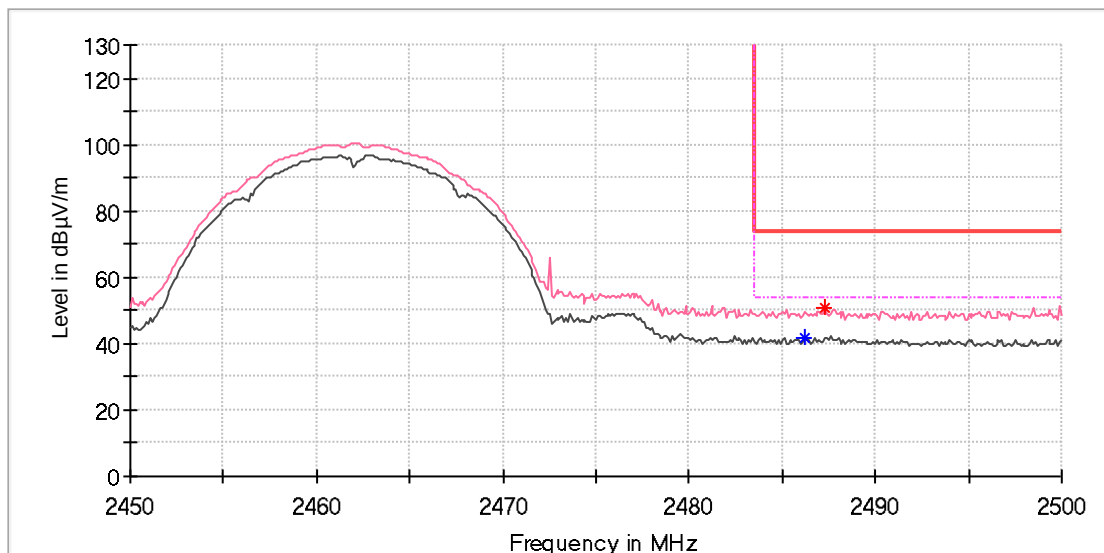
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2485.400000	---	44.42	54.00	9.58	100.0	H	289.0	7.4
2486.200000	53.28	---	74.00	20.72	100.0	H	162.0	7.4

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: S81USP
Test Mode: WIFI 2.4G_11b_Ch11
Order No/Sample No: 168397766/A003376067-008
Test Voltage: Battery
Remark: Temp 23 Humi:58%
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)
2486.200000	---	41.90	54.00	12.10	100.0	V	149.0	7.4
2487.300000	50.81	---	74.00	23.19	100.0	V	157.0	7.4

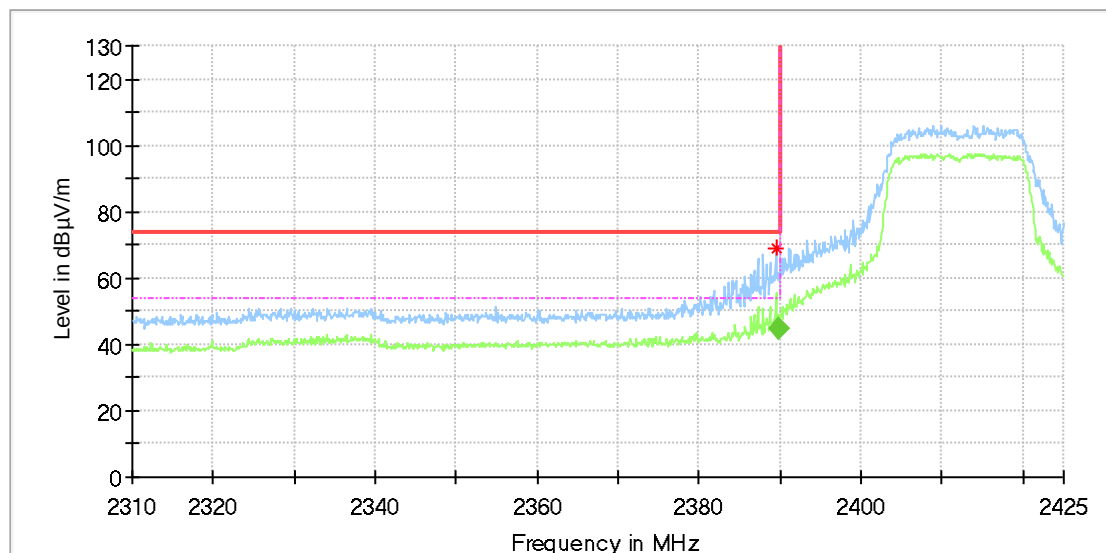
Final Result

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:	S81USP
Test Mode:	WIFI 2.4G_11g_Ch1
Order No/Sample No:	168397766/A003376067-008
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

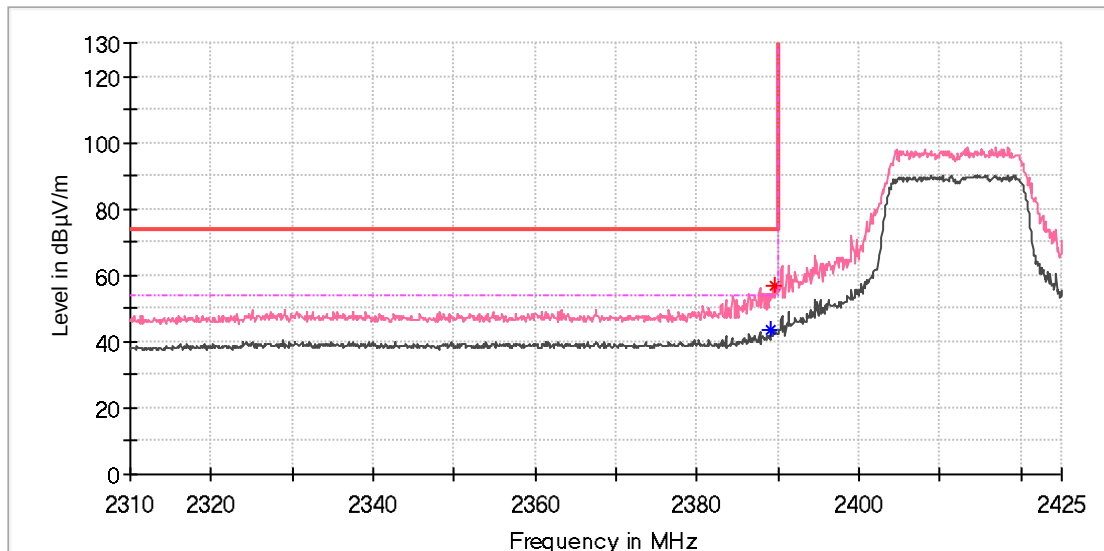
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.500000	68.67	---	74.00	5.33	100.0	H	162.0	7.0

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.874400	44.66	54.00	9.34	100.0	H	160.0	7.0

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	S81USP
Test Mode:	WIFI 2.4G_11g_Ch1
Order No/Sample No:	168397766/A003376067-008
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

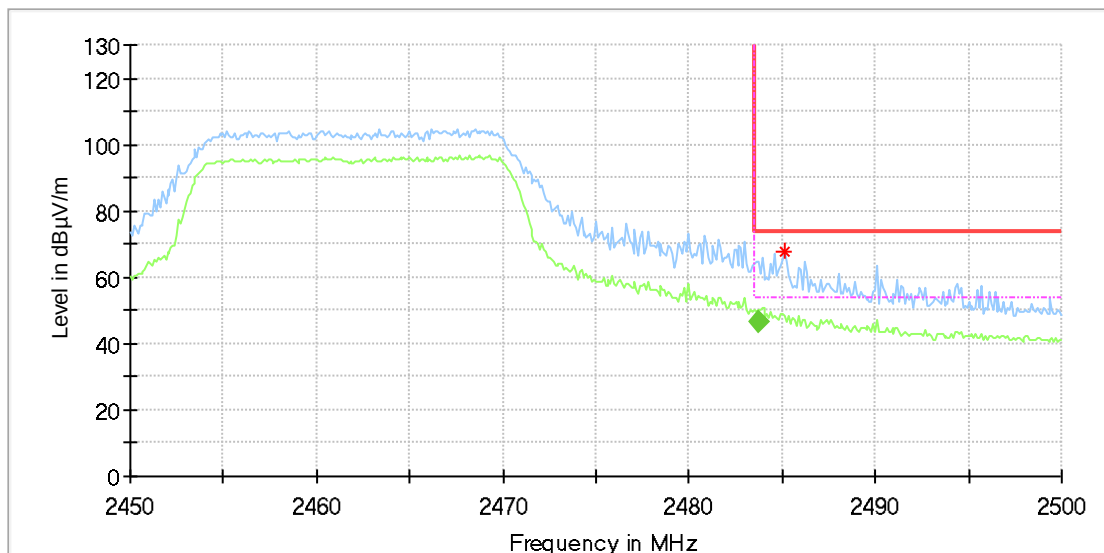
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.100000	---	43.57	54.00	10.43	100.0	V	324.0	7.0
2389.600000	56.89	---	74.00	17.11	100.0	V	324.0	7.0

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: S81USP
Test Mode: WIFI 2.4G_11g_Ch11
Order No/Sample No: 168397766/A003376067-008
Test Voltage: Battery
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

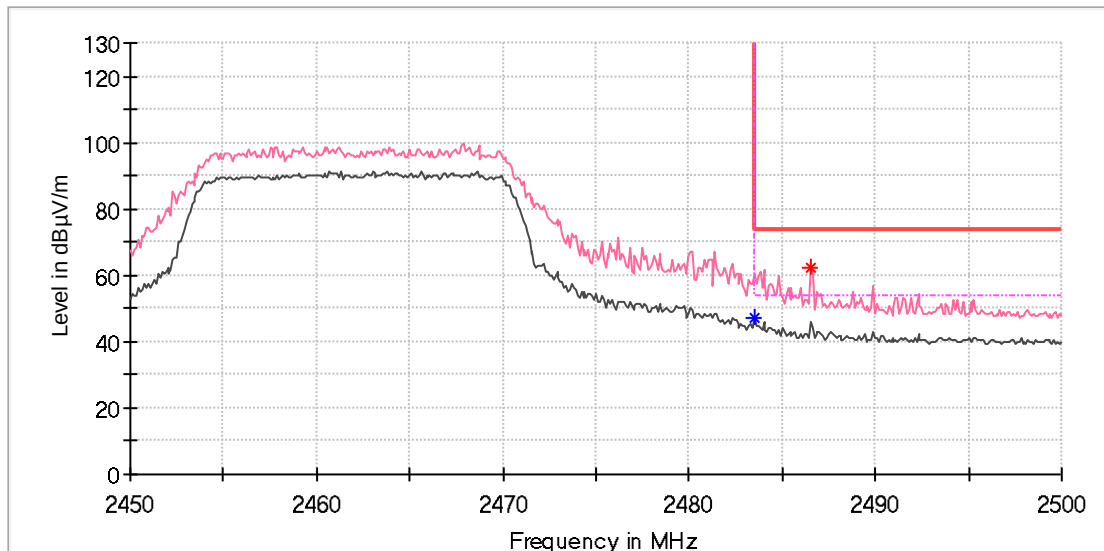
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2485.100000	67.82	---	74.00	6.18	100.0	H	293.0	7.4

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.718250	46.49	54.00	7.51	100.0	H	162.0	7.4

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	S81USP
Test Mode:	WIFI 2.4G_11g_Ch11
Order No/Sample No:	168397766/A003376067-008
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
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	---	47.03	54.00	6.97	100.0	V	158.0	7.4
2486.500000	62.01	---	74.00	11.99	100.0	V	158.0	7.4

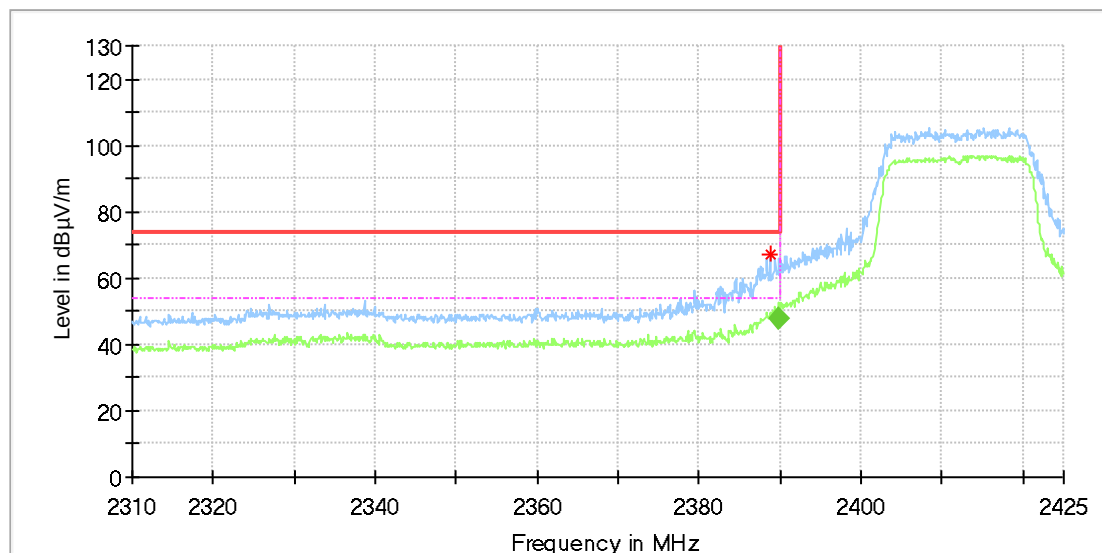
Final Result

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, MCS0

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	S81USP
Test Mode:	WIFI 2.4G_11n20_Ch1
Order No/Sample No:	168397766/A003376067-008
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

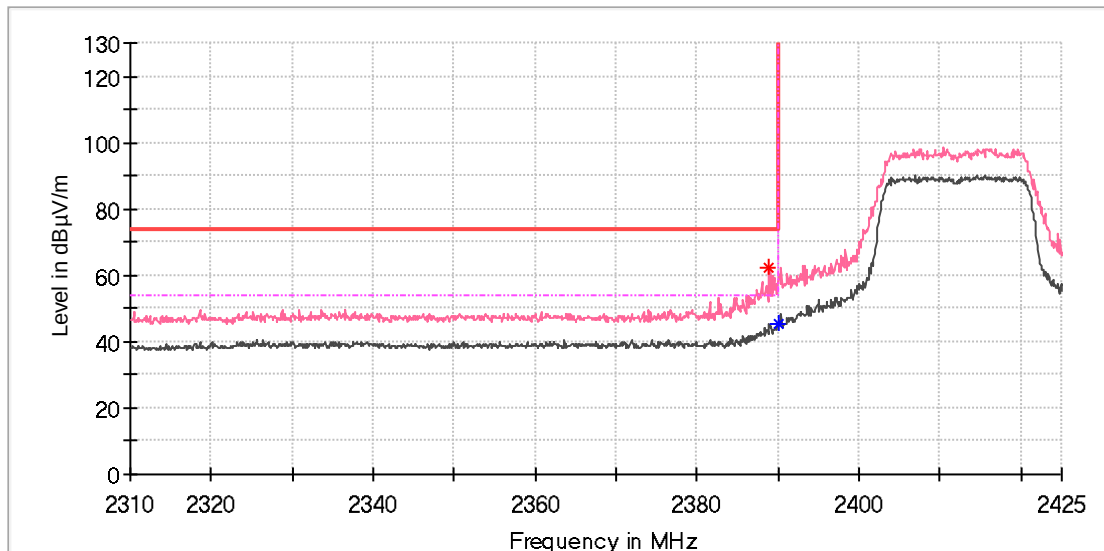
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2388.700000	67.36	---	74.00	6.64	100.0	H	309.0	7.0

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.896350	48.05	54.00	5.95	105.0	H	119.0	7.0

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	S81USP
Test Mode:	WIFI 2.4G_11n20_Ch1
Order No/Sample No:	168397766/A003376067-008
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

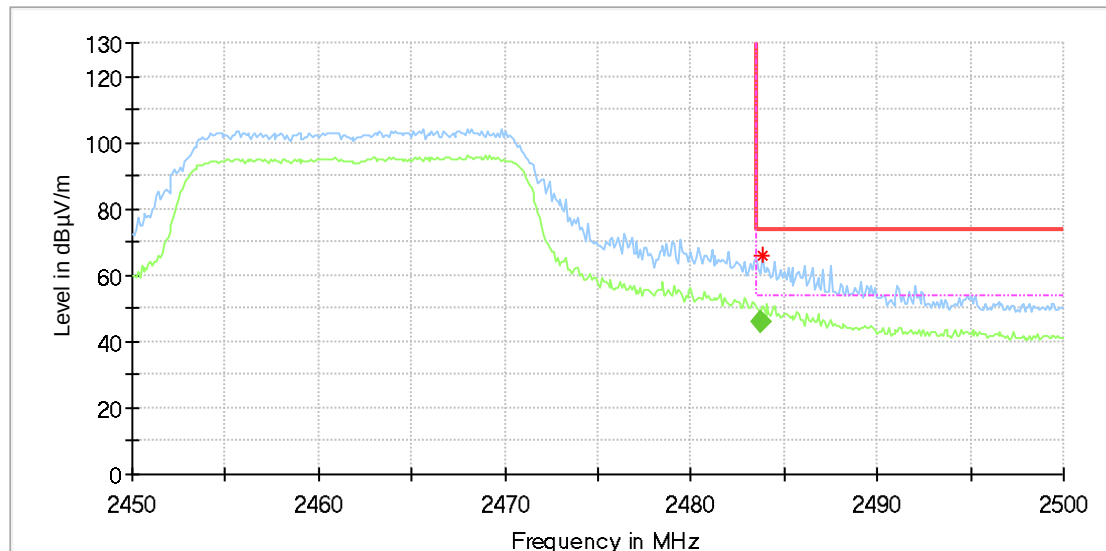
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2388.900000	62.37	---	74.00	11.63	100.0	V	57.0	7.0
2390.000000	---	45.48	54.00	8.52	100.0	V	323.0	7.0

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:	S81USP
Test Mode:	WIFI 2.4G_11n20_Ch11
Order No/Sample No:	168397766/A003376067-008
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

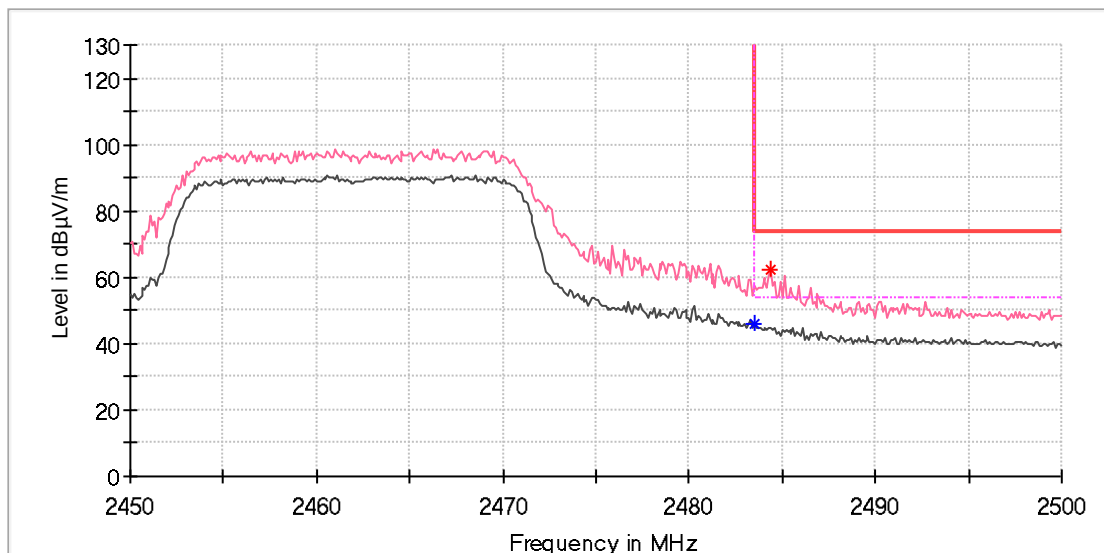
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.800000	65.76	---	74.00	8.24	100.0	H	140.0	7.4

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.721900	45.75	54.00	8.25	100.0	H	125.0	7.4

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	S81USP
Test Mode:	WIFI 2.4G_11n20_Ch11
Order No/Sample No:	168397766/A003376067-008
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
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	---	45.70	54.00	8.30	100.0	V	114.0	7.4
2484.400000	62.55	---	74.00	11.45	100.0	V	150.0	7.4

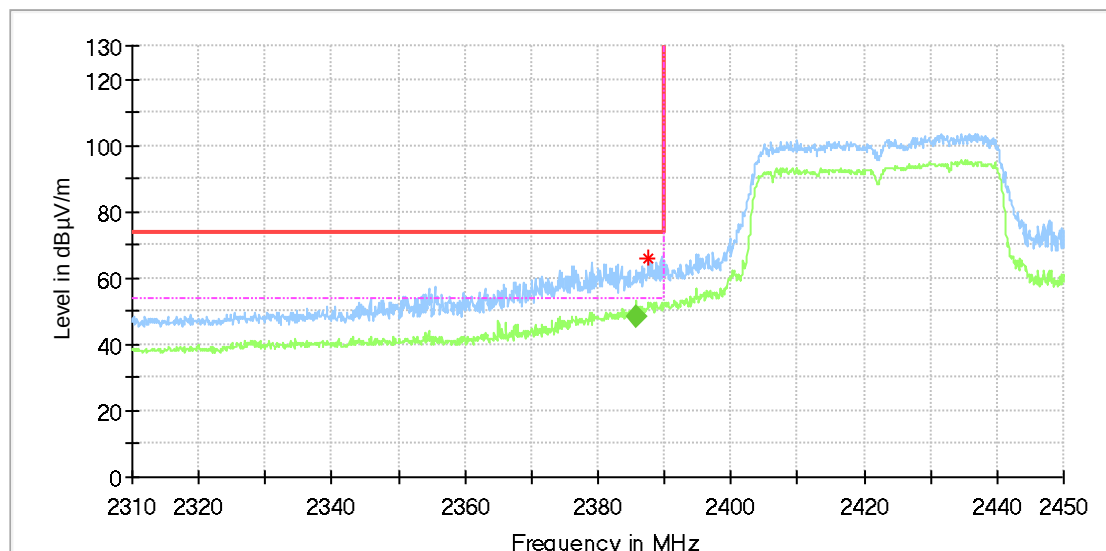
Final Result

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, MCS0

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	S81USP
Test Mode:	WIFI 2.4G_11n40_Ch3
Order No/Sample No:	168397766/A003376067-008
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

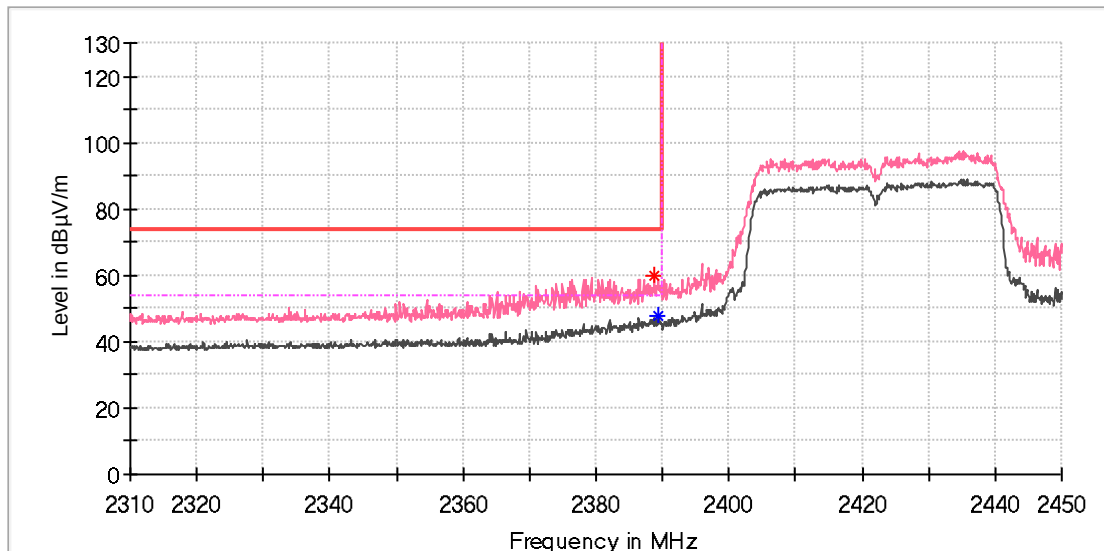
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2387.500000	66.17	---	74.00	7.83	100.0	H	159.0	7.0

Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2385.589450	48.11	54.00	5.89	100.0	H	164.0	7.0

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	S81USP
Test Mode:	WIFI 2.4G_11n40_Ch3
Order No/Sample No:	168397766/A003376067-008
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

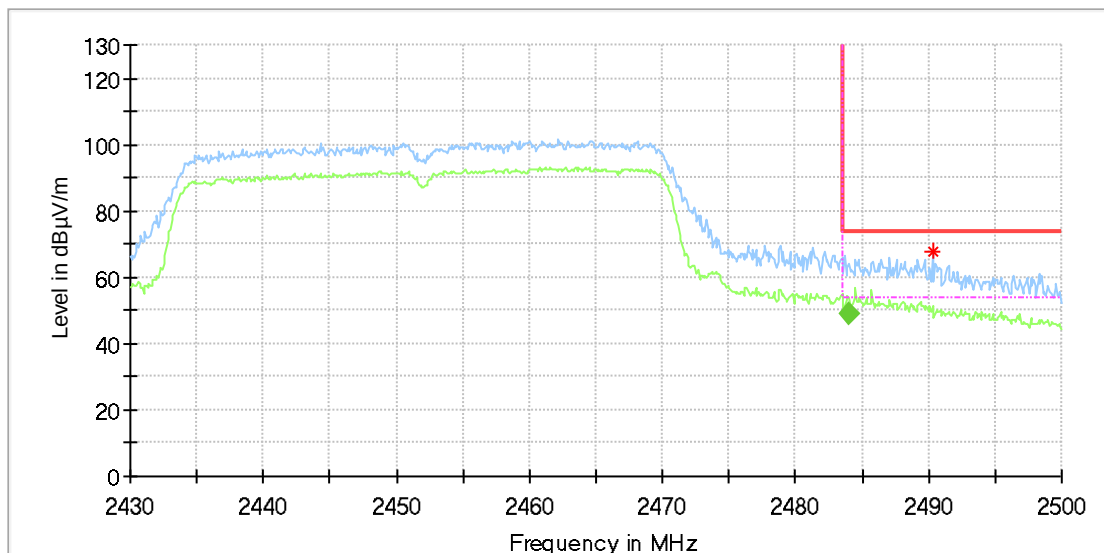
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2388.800000	59.66	---	74.00	14.34	100.0	V	53.0	7.0
2389.500000	---	47.57	54.00	6.43	100.0	V	324.0	7.0

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: S81USP
Test Mode: WIFI 2.4G_11n40_Ch9
Order No/Sample No: 168397766/A003376067-008
Test Voltage: Battery
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

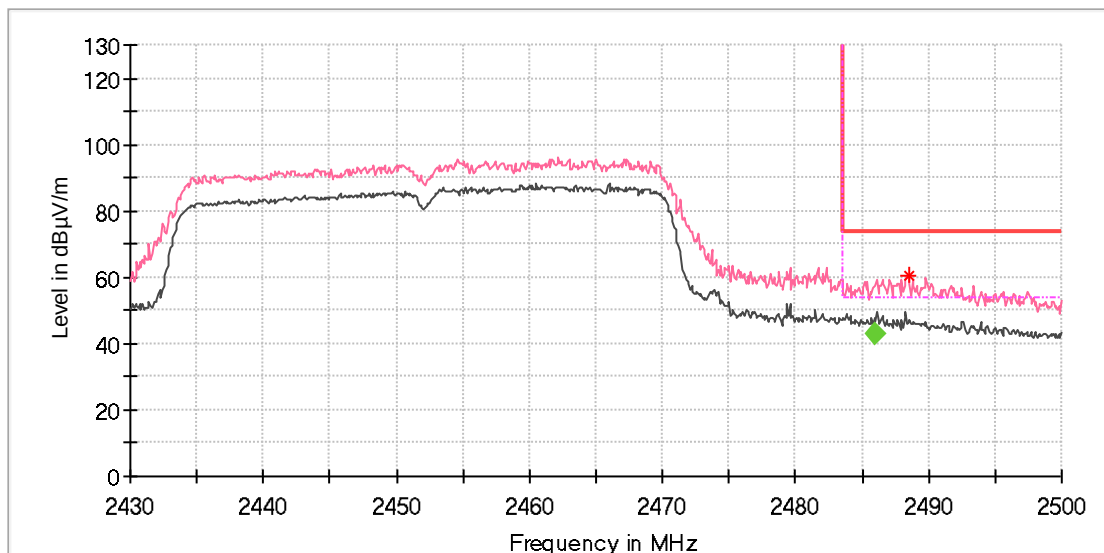
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2490.300000	67.75	---	74.00	6.25	100.0	H	159.0	7.4

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.036350	48.86	54.00	5.14	100.0	H	157.0	7.4

EUT Information

EUT Name: Robotic Vacuum Cleaner
Model: S81USP
Test Mode: WIFI 2.4G_11n40_Ch9
Order No/Sample No: 168397766/A003376067-008
Test Voltage: Battery
Remark: Temp 23 Humi:58%
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)
2488.500000	60.68	---	74.00	13.32	100.0	V	151.0	7.4

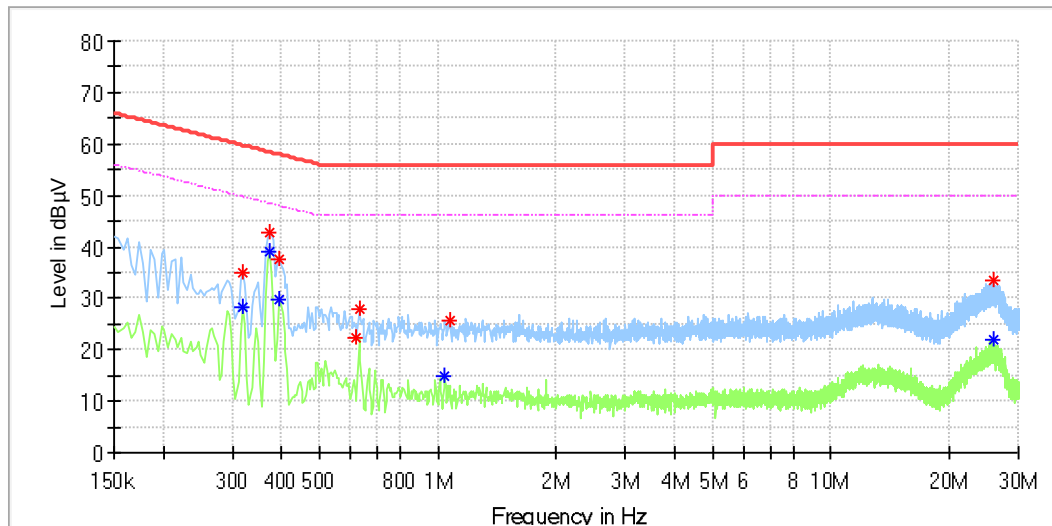
Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2485.948450	43.02	54.00	10.98	100.0	V	160.0	7.4

[illegible]

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	S81USP
Test Mode:	WIFI Link+Charging
Order No/Sample No:	168397766/A003376067-003
Test Voltage:	AC 120V/60Hz
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15C
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.318000	---	28.34	49.76	21.42	N	9.8
0.318000	34.90	---	59.76	24.86	N	9.8
0.374000	---	38.99	48.41	9.42	N	9.8
0.374000	42.88	---	58.41	15.54	N	9.8
0.394000	---	29.79	47.98	18.19	N	9.8
0.394000	37.60	---	57.98	20.38	N	9.8
0.622000	22.31	---	56.00	33.69	N	9.8
0.630000	28.09	---	56.00	27.91	N	9.8
1.038000	---	14.94	46.00	31.06	N	9.8
1.074000	25.85	---	56.00	30.15	N	9.8
25.834000	---	21.91	50.00	28.09	N	10.3
25.898000	33.62	---	60.00	26.38	N	10.3

Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
90.0	58.0	55.0	58.0	0.0	1000	9	1	0.0

