

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	0.70	≤8.00	PASS
		2437	0.47	≤8.00	PASS
		2462	0.69	≤8.00	PASS
11G	Ant1	2412	-6.85	≤8.00	PASS
		2437	-5.61	≤8.00	PASS
		2462	-5.77	≤8.00	PASS
11N20SISO	Ant1	2412	-4.98	≤8.00	PASS
		2437	-6.77	≤8.00	PASS
		2462	-6.15	≤8.00	PASS
11N40SISO	Ant1	2422	-9.21	≤8.00	PASS
		2437	-9.75	≤8.00	PASS
		2452	-8.26	≤8.00	PASS

11B_Ant1_2412



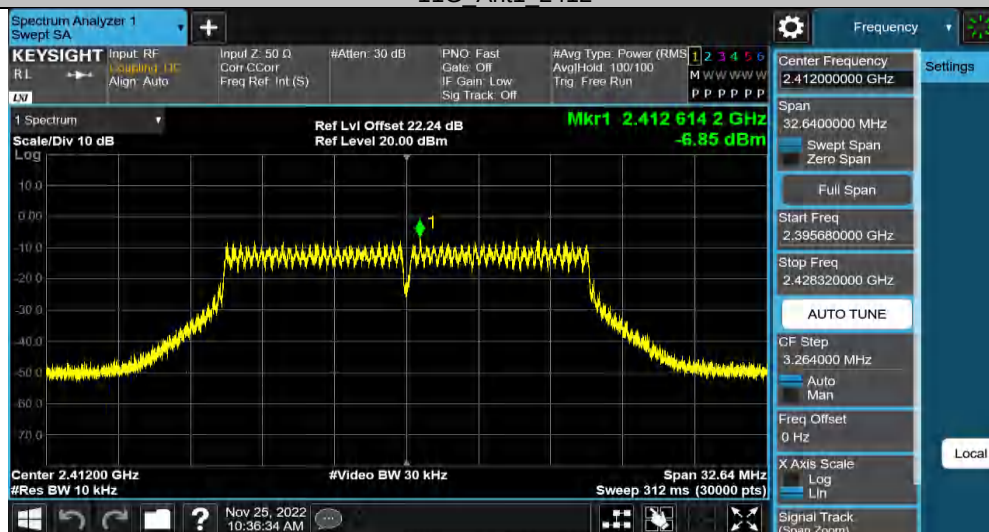
11B_Ant1_2437



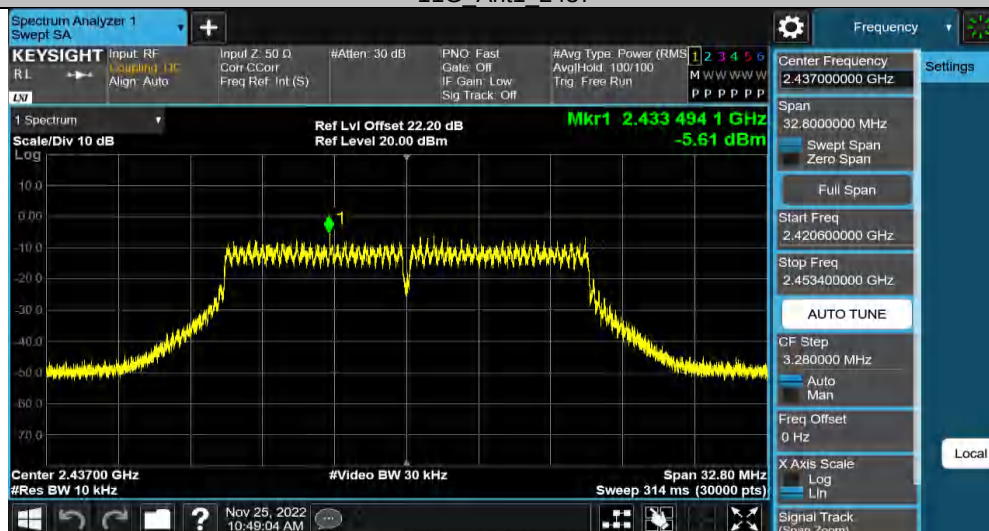
11B_Ant1_2462



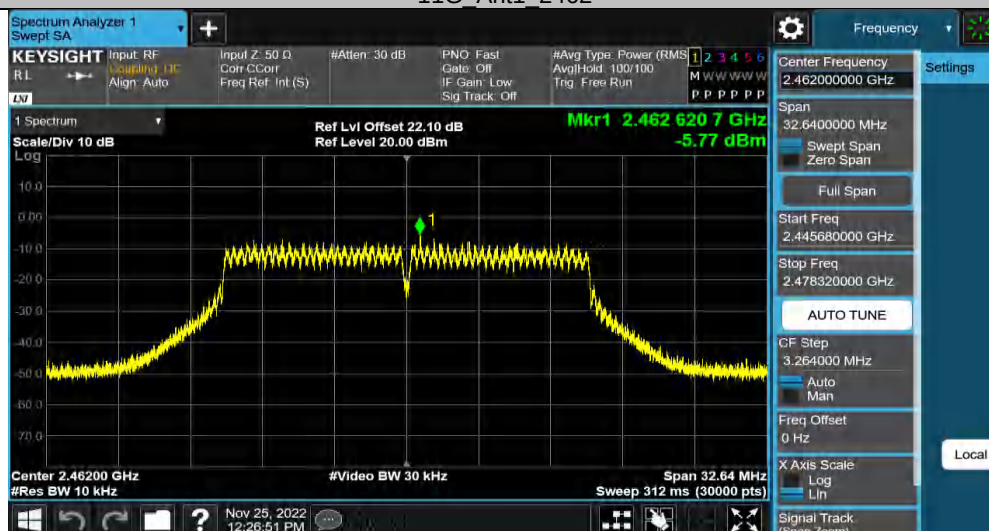
11G_Ant1_2412



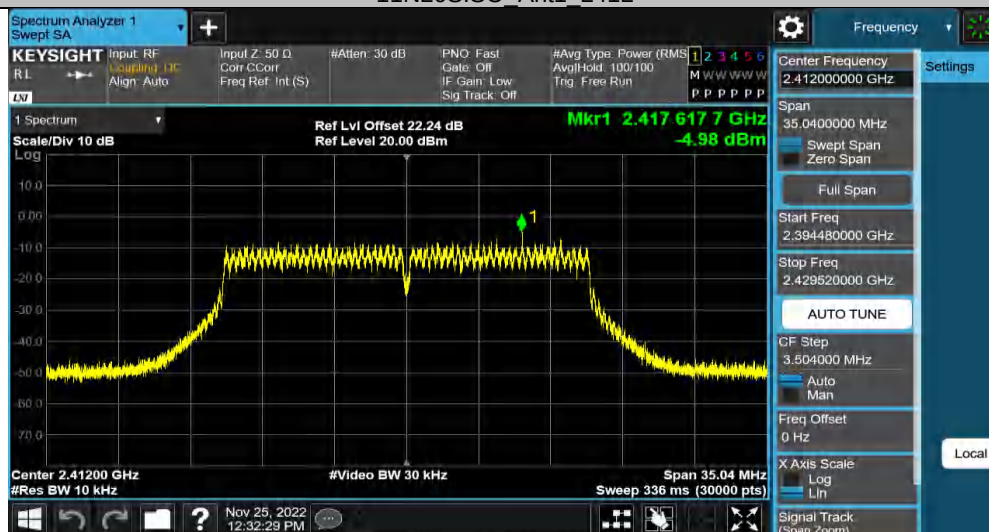
11G_Ant1_2437



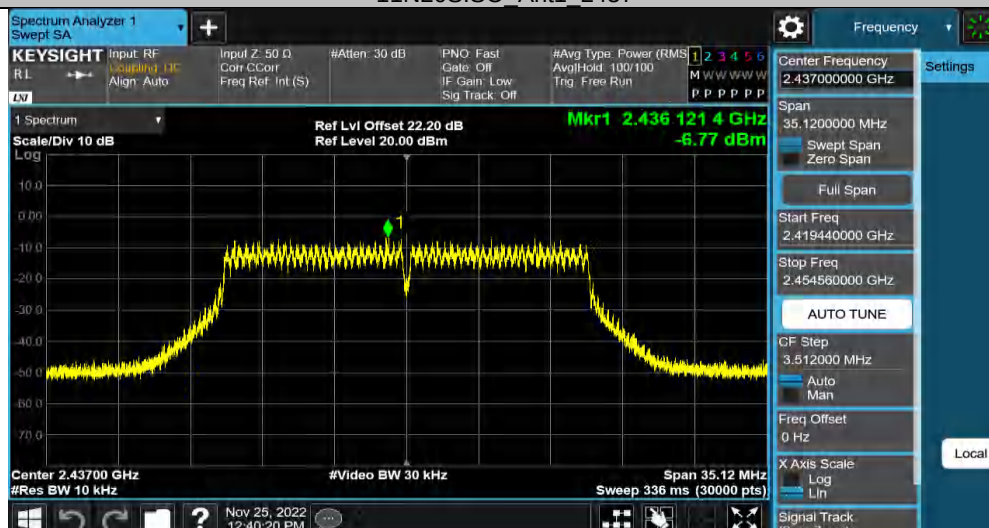
11G_Ant1_2462



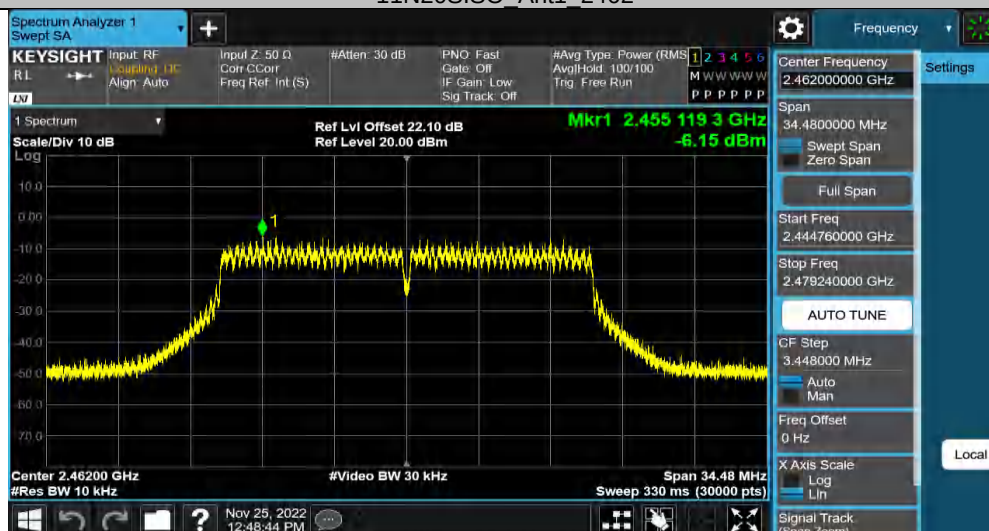
11N20SISO Ant1 2412



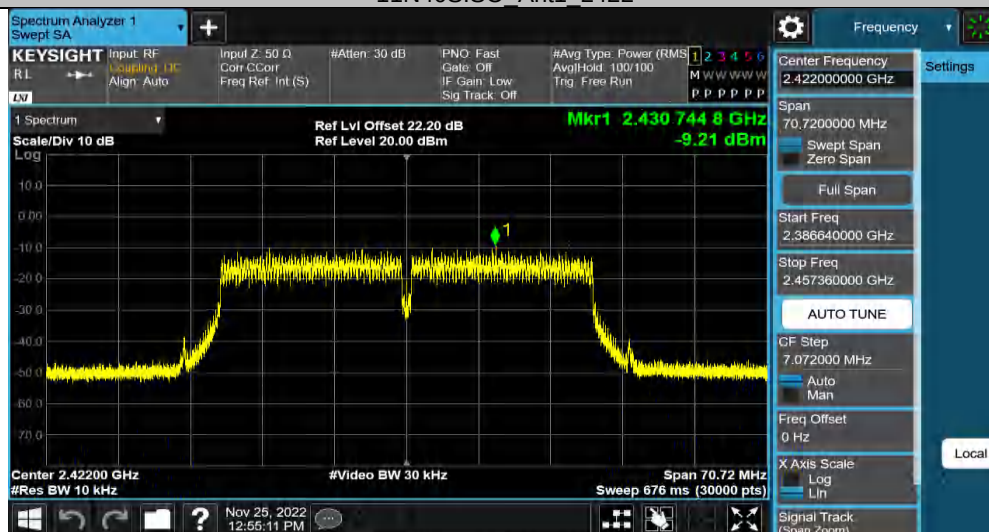
11N20SISO Ant1 2437



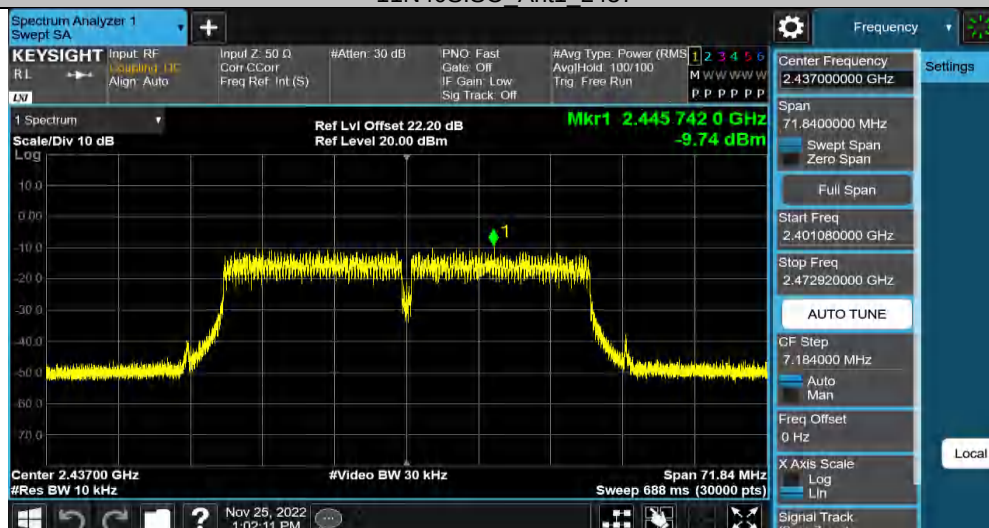
11N20SISO Ant1 2462



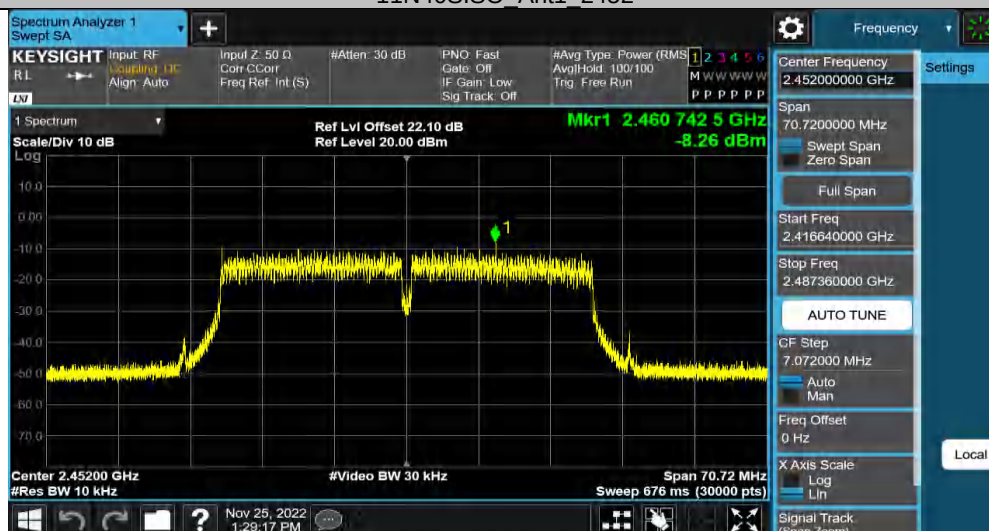
11N40SISO Ant1 2422



11N40SISO Ant1 2437



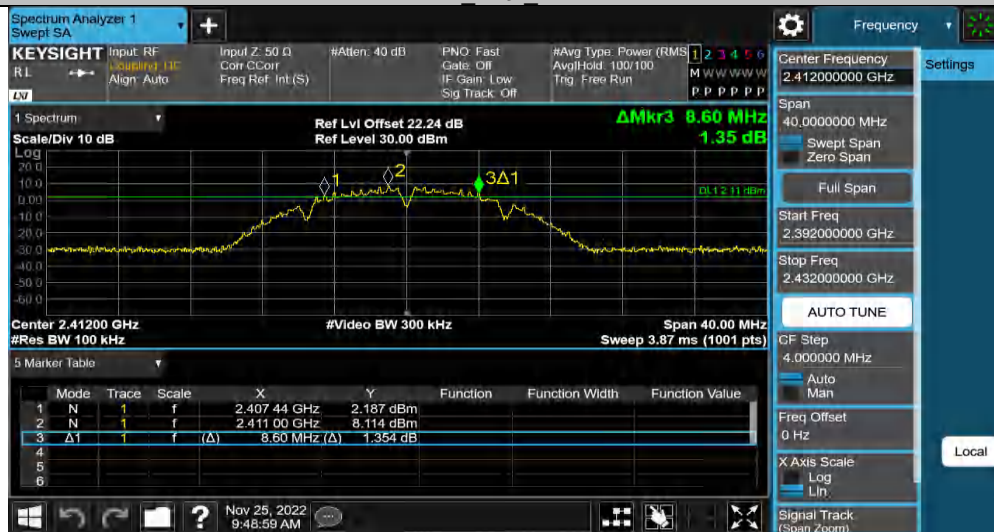
11N40SISO Ant1 2452



Appendix B.2: Test Results of 6dB Bandwidth

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.600	2407.440	2416.040	0.5	PASS
		2437	8.080	2432.960	2441.040	0.5	PASS
		2462	8.520	2457.520	2466.040	0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	0.5	PASS
		2437	16.400	2428.800	2445.200	0.5	PASS
		2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.520	2403.240	2420.760	0.5	PASS
		2437	17.560	2428.200	2445.760	0.5	PASS
		2462	17.240	2453.240	2470.480	0.5	PASS
11N40SISO	Ant1	2422	35.360	2404.480	2439.840	0.5	PASS
		2437	35.920	2418.840	2454.760	0.5	PASS
		2452	35.360	2434.160	2469.520	0.5	PASS

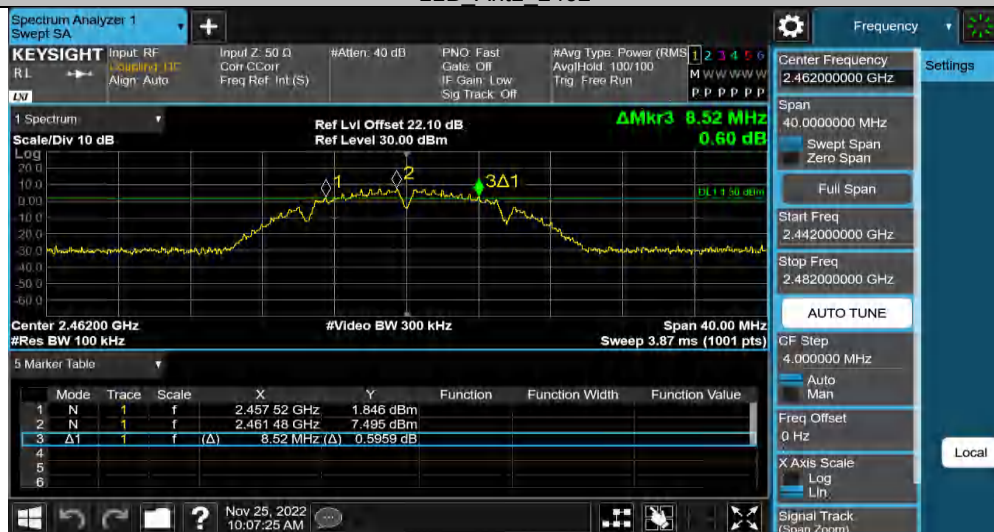
11B_Ant1_2412



11B_Ant1_2437



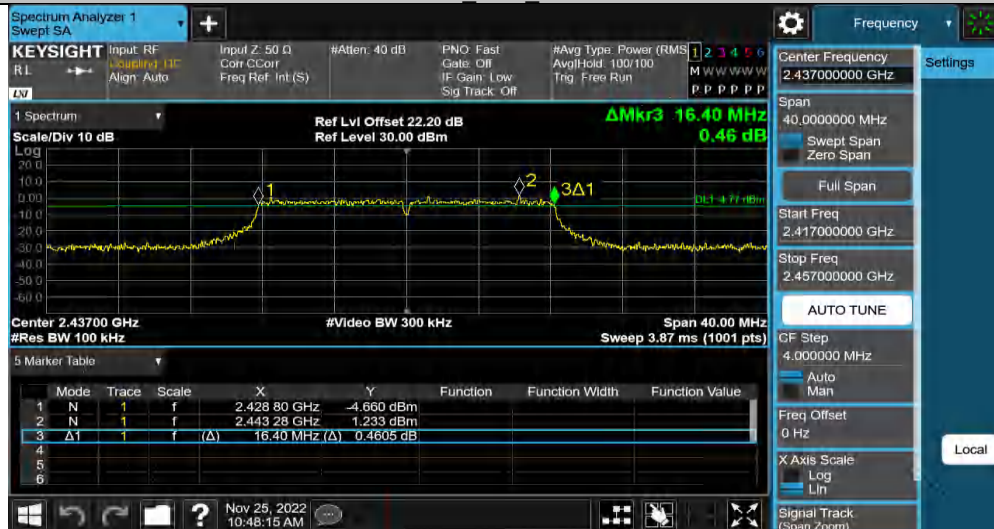
11B_Ant1_2462



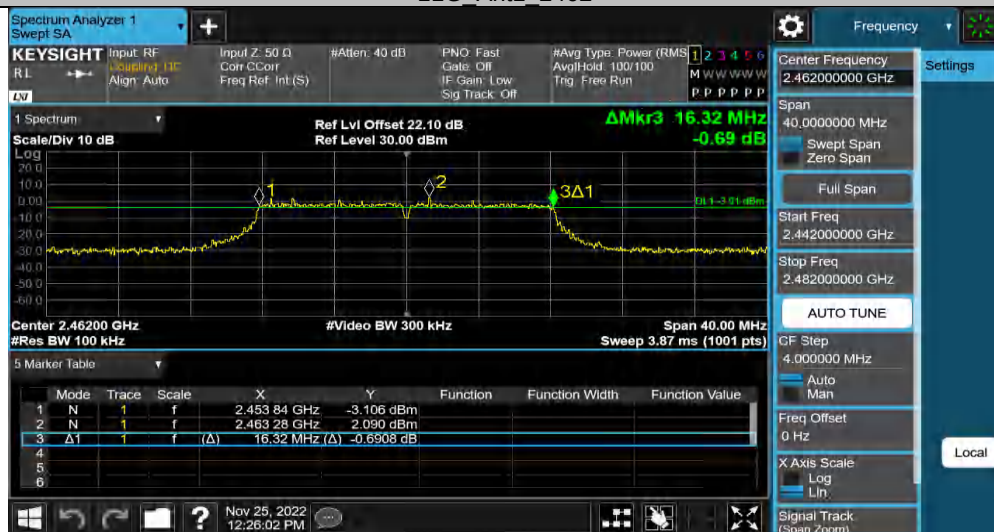
11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO Ant1 2412



11N20SISO Ant1 2437



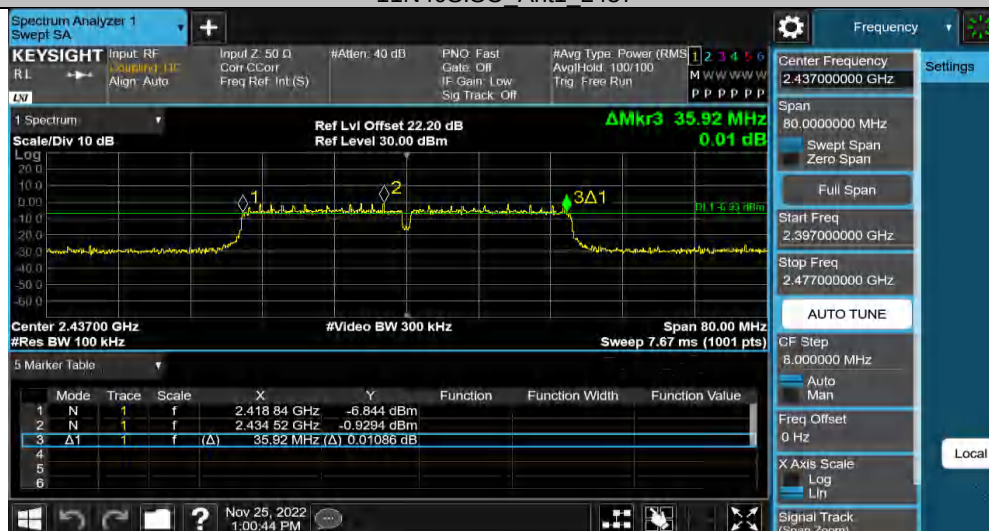
11N20SISO Ant1 2462



11N40SISO Ant1 2422



11N40SISO Ant1 2437

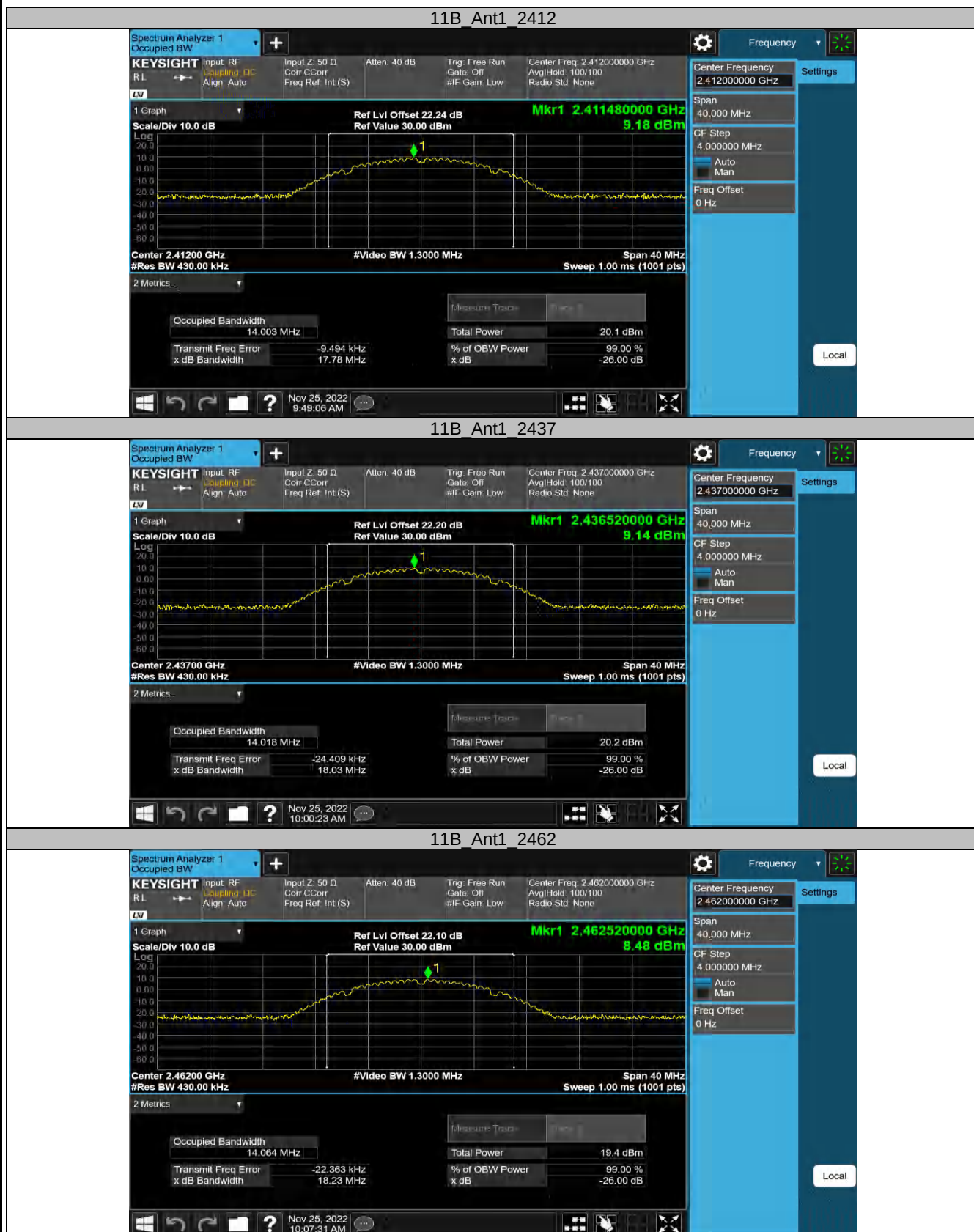


11N40SISO Ant1 2452



Appendix B.3: Test Results of 99% Bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.003	2404.9890	2418.9920	---	PASS
		2437	14.018	2429.9666	2443.9846	---	PASS
		2462	14.064	2454.9456	2469.0096	---	PASS
11G	Ant1	2412	17.389	2403.3414	2420.7304	---	PASS
		2437	17.209	2428.3518	2445.5608	---	PASS
		2462	17.264	2453.3059	2470.5699	---	PASS
11N20SISO	Ant1	2412	18.217	2402.8916	2421.1086	---	PASS
		2437	18.203	2427.8637	2446.0667	---	PASS
		2462	18.146	2452.8260	2470.9720	---	PASS
11N40SISO	Ant1	2422	36.735	2403.6203	2440.3553	---	PASS
		2437	36.719	2418.6817	2455.4007	---	PASS
		2452	36.640	2433.6350	2470.2750	---	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	8.89	-36.37	≤-11.11	PASS
		High	2462	8.16	-36.76	≤-11.84	PASS
11G	Ant1	Low	2412	1.07	-35.05	≤-18.93	PASS
		High	2462	1.91	-35.5	≤-18.09	PASS
11N20SISO	Ant1	Low	2412	1.36	-35.27	≤-18.64	PASS
		High	2462	1.68	-36.43	≤-18.32	PASS
11N40SISO	Ant1	Low	2422	-1.41	-34.67	≤-21.41	PASS
		High	2452	0.07	-36.19	≤-19.93	PASS

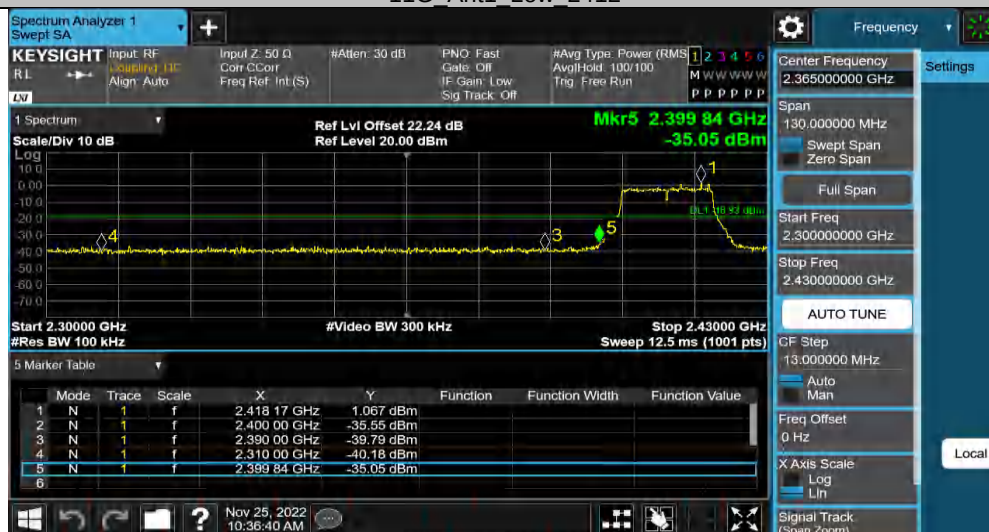
11B Ant1 Low 2412



11B Ant1 High 2462



11G Ant1 Low 2412



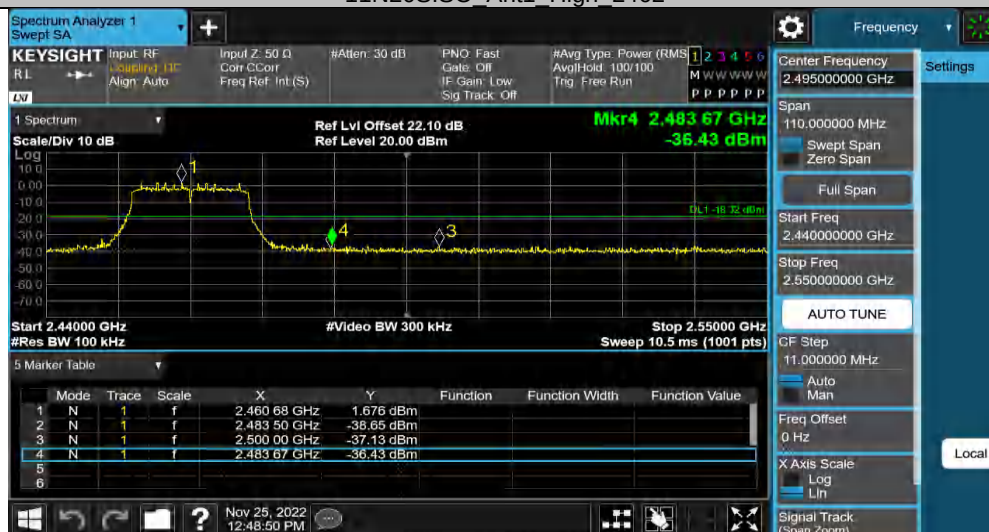
11G Ant1 High 2462



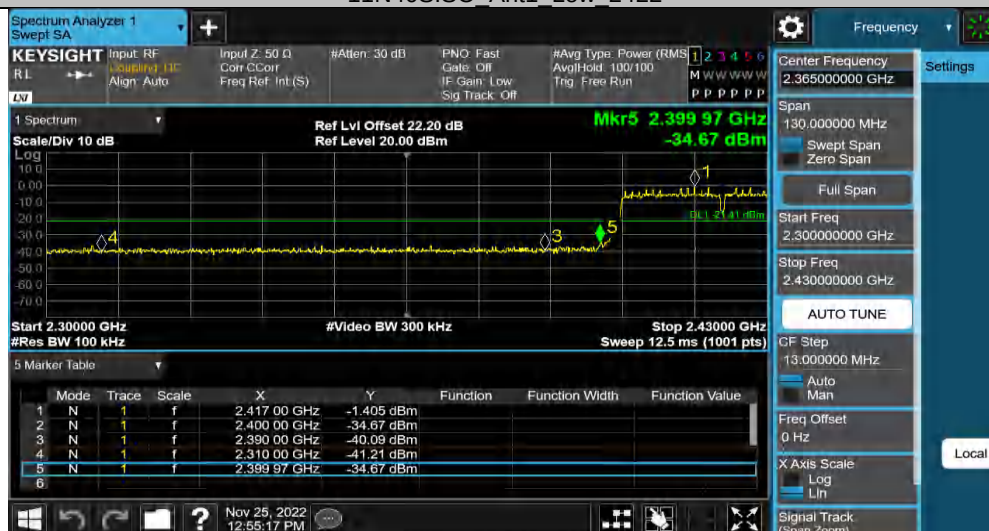
11N20SISO Ant1 Low 2412



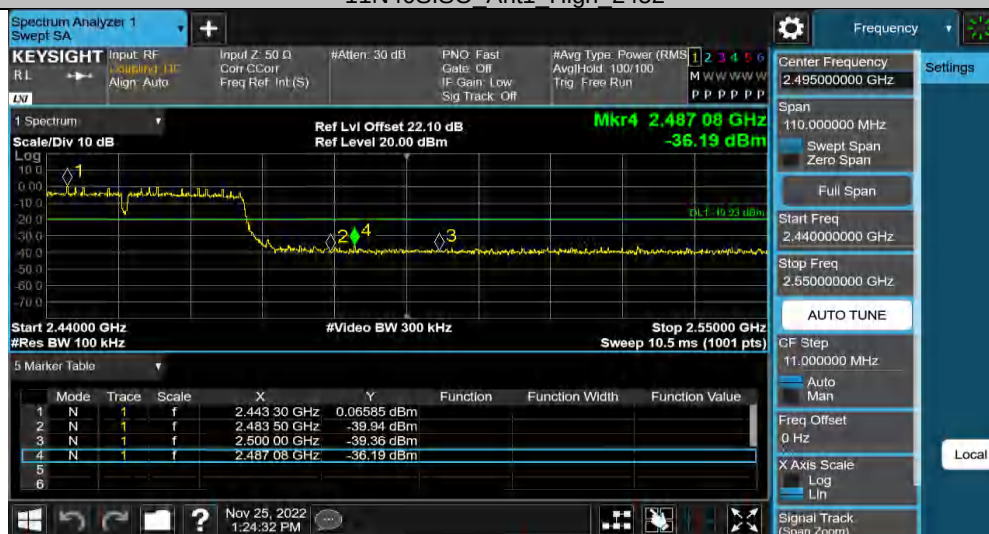
11N20SISO Ant1 High 2462



11N40SISO Ant1 Low 2422



11N40SISO Ant1 High 2452



Conducted Spurious Emission

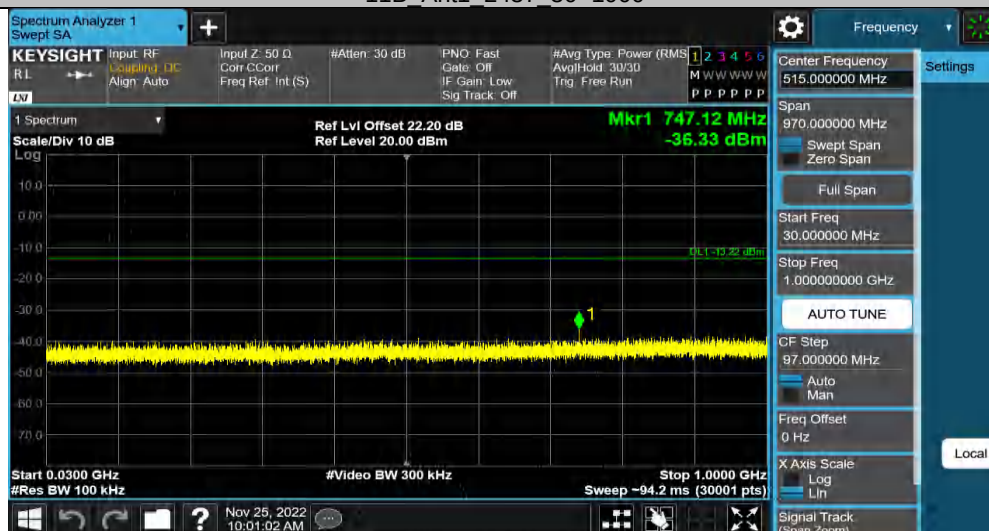
TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	8.34	8.34	---	PASS
			30~1000	8.34	-37.97	≤-11.66	PASS
			1000~26500	8.34	-28.45	≤-11.66	PASS
		2437	Reference	6.78	6.78	---	PASS
			30~1000	6.78	-36.33	≤-13.22	PASS
			1000~26500	6.78	-28.31	≤-13.22	PASS
		2462	Reference	7.89	7.89	---	PASS
			30~1000	7.89	-37.82	≤-12.11	PASS
			1000~26500	7.89	-28.72	≤-12.11	PASS
11G	Ant1	2412	Reference	-0.97	-0.97	---	PASS
			30~1000	-0.97	-37.8	≤-20.97	PASS
			1000~26500	-0.97	-28.44	≤-20.97	PASS
		2437	Reference	-1.30	-1.30	---	PASS
			30~1000	-1.30	-37.7	≤-21.3	PASS
			1000~26500	-1.30	-29.05	≤-21.3	PASS
		2462	Reference	-1.35	-1.35	---	PASS
			30~1000	-1.35	-37.66	≤-21.35	PASS
			1000~26500	-1.35	-28.71	≤-21.35	PASS
11N20SISO	Ant1	2412	Reference	-2.18	-2.18	---	PASS
			30~1000	-2.18	-37.59	≤-22.18	PASS
			1000~26500	-2.18	-28.6	≤-22.18	PASS
		2437	Reference	1.01	1.01	---	PASS
			30~1000	1.01	-37.95	≤-18.99	PASS
			1000~26500	1.01	-28.67	≤-18.99	PASS
		2462	Reference	2.15	2.15	---	PASS
			30~1000	2.15	-38.09	≤-17.85	PASS
			1000~26500	2.15	-28.6	≤-17.85	PASS
11N40SISO	Ant1	2422	Reference	-1.22	-1.22	---	PASS
			30~1000	-1.22	-37.49	≤-21.22	PASS
			1000~26500	-1.22	-28.91	≤-21.22	PASS
		2437	Reference	-2.74	-2.74	---	PASS
			30~1000	-2.74	-37.73	≤-22.74	PASS
			1000~26500	-2.74	-28.76	≤-22.74	PASS
		2452	Reference	-1.99	-1.99	---	PASS
			30~1000	-1.99	-38.18	≤-21.99	PASS
			1000~26500	-1.99	-29.09	≤-21.99	PASS



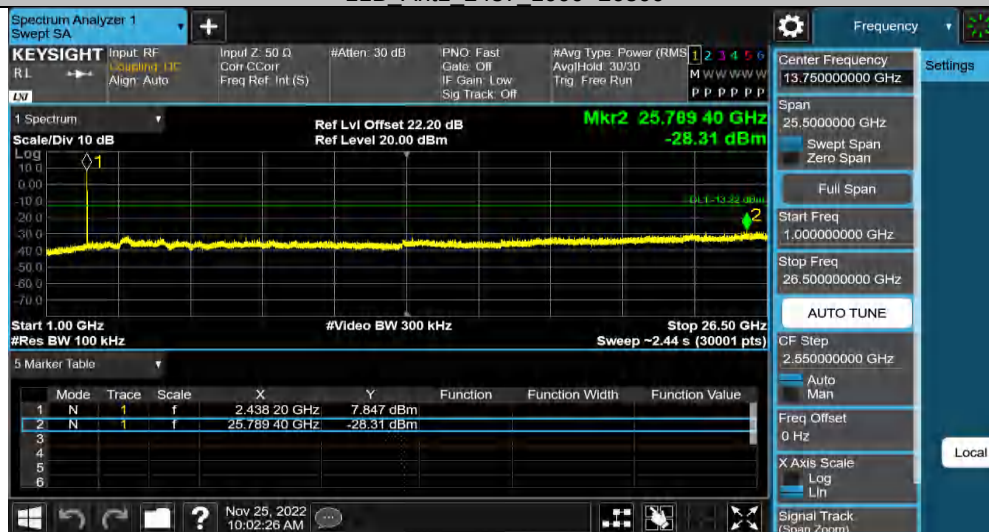
11B_Ant1_2437_0-Reference



11B_Ant1_2437_30-1000



11B_Ant1_2437_1000-26500



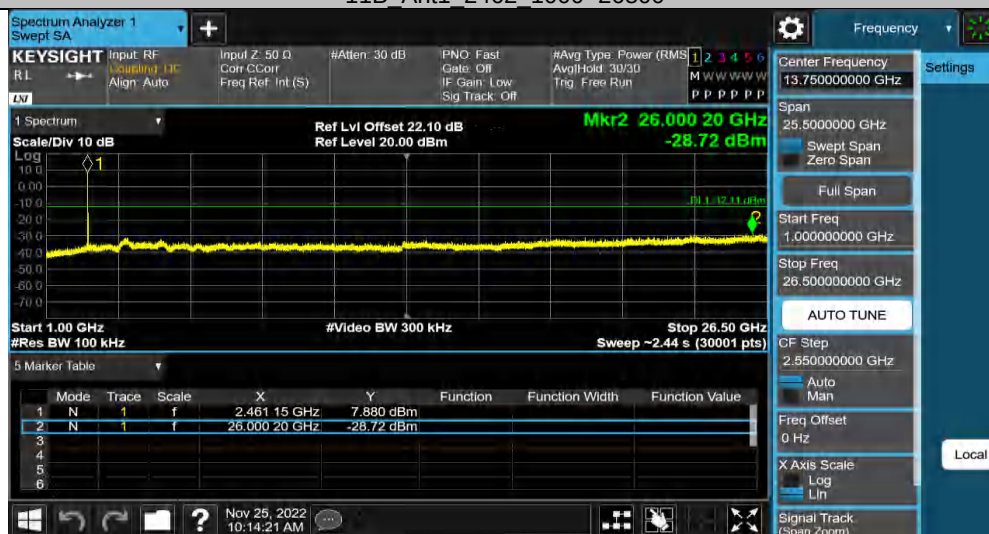
11B_Ant1_2462_0-Reference



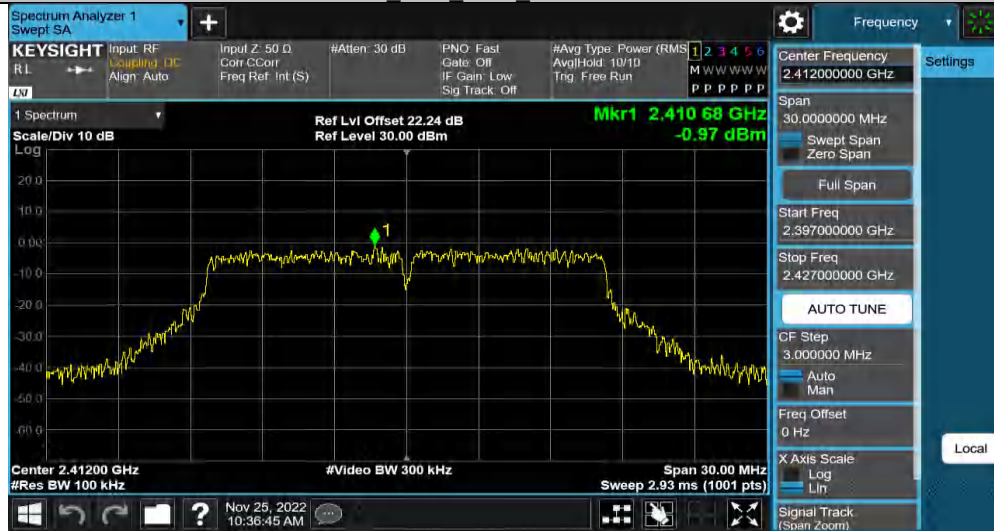
11B_Ant1_2462_30-1000



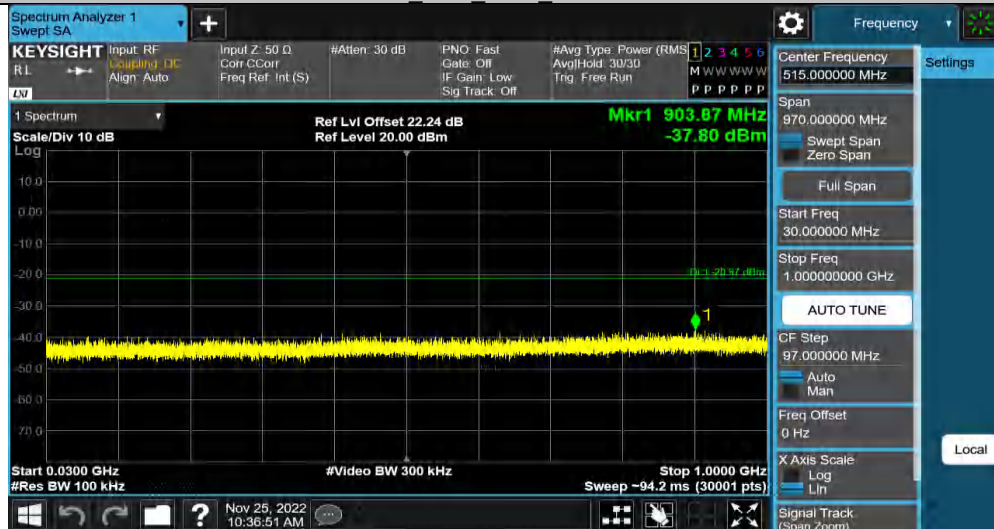
11B_Ant1_2462_1000-26500



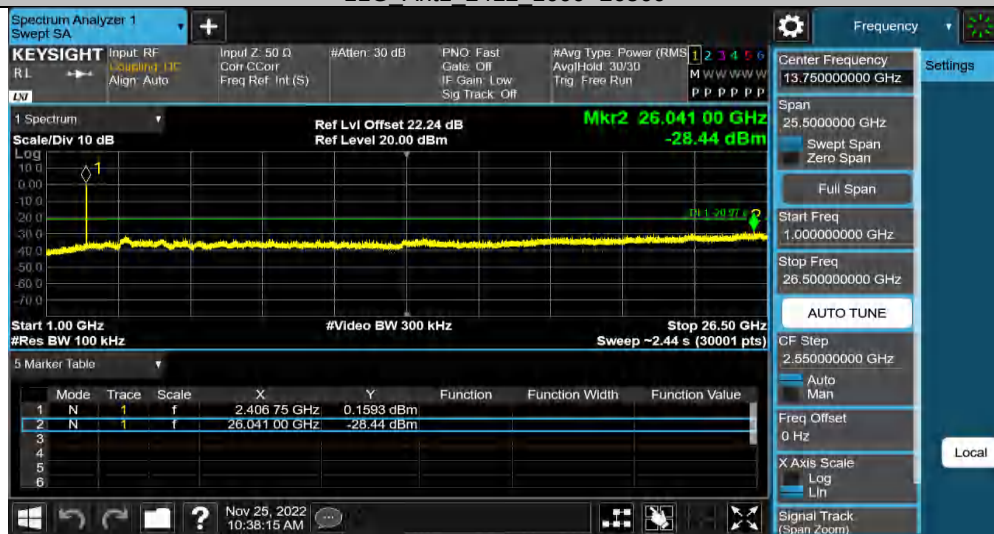
11G_Ant1_2412_0-Reference



11G_Ant1_2412_30-1000



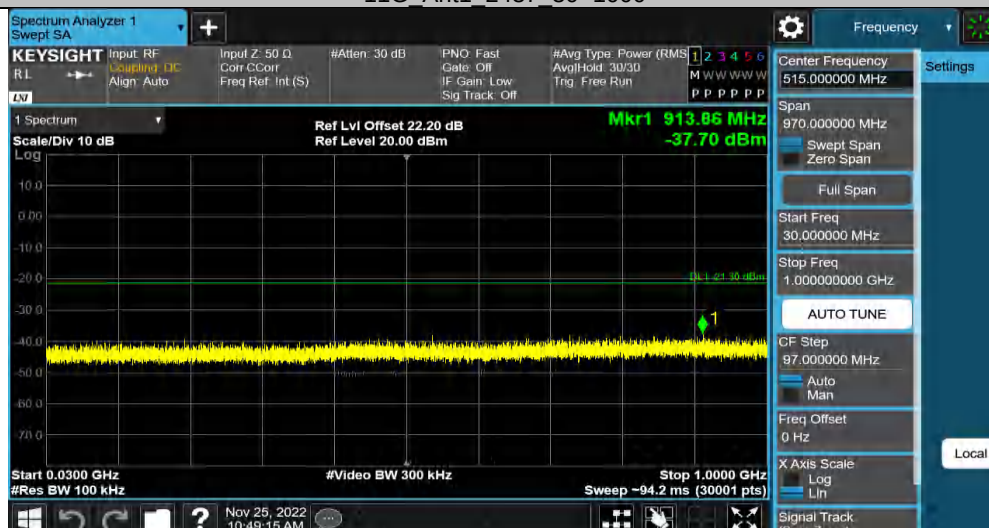
11G_Ant1_2412_1000-26500



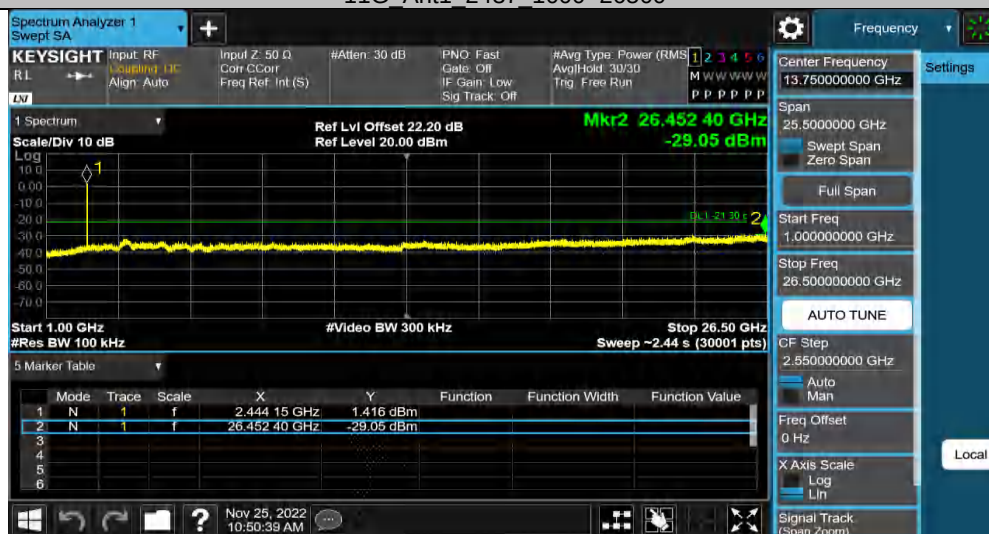
11G_Ant1_2437_0-Reference



11G_Ant1_2437_30-1000



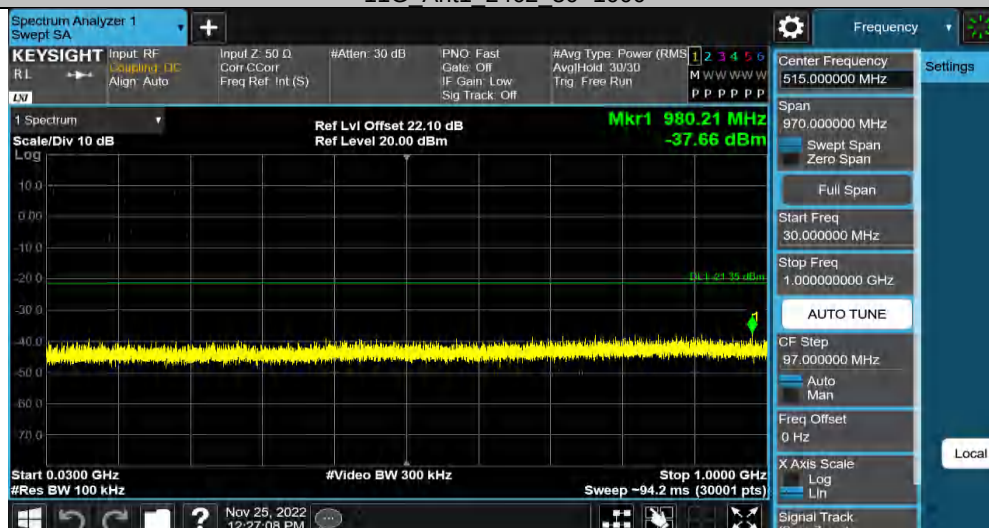
11G_Ant1_2437_1000-26500



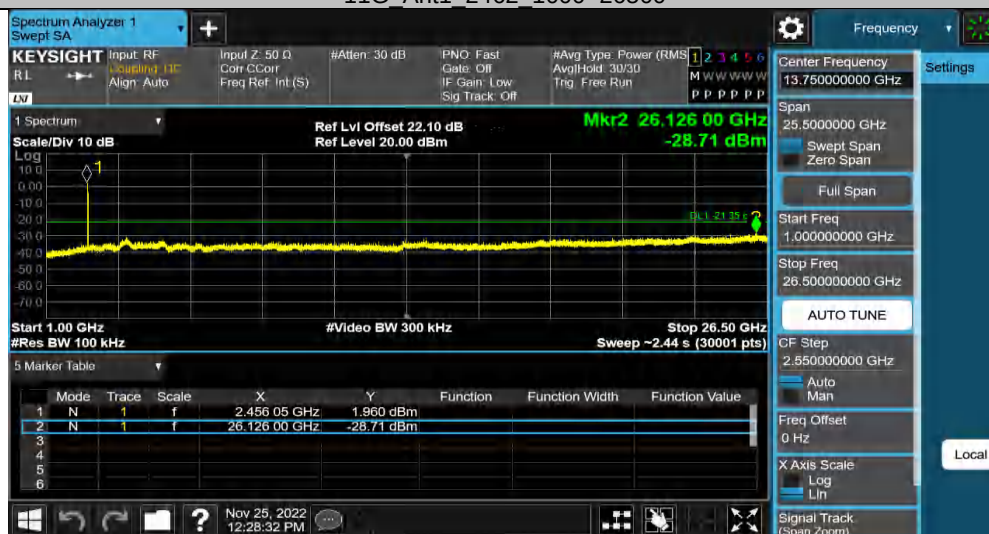
11G_Ant1_2462_0-Reference



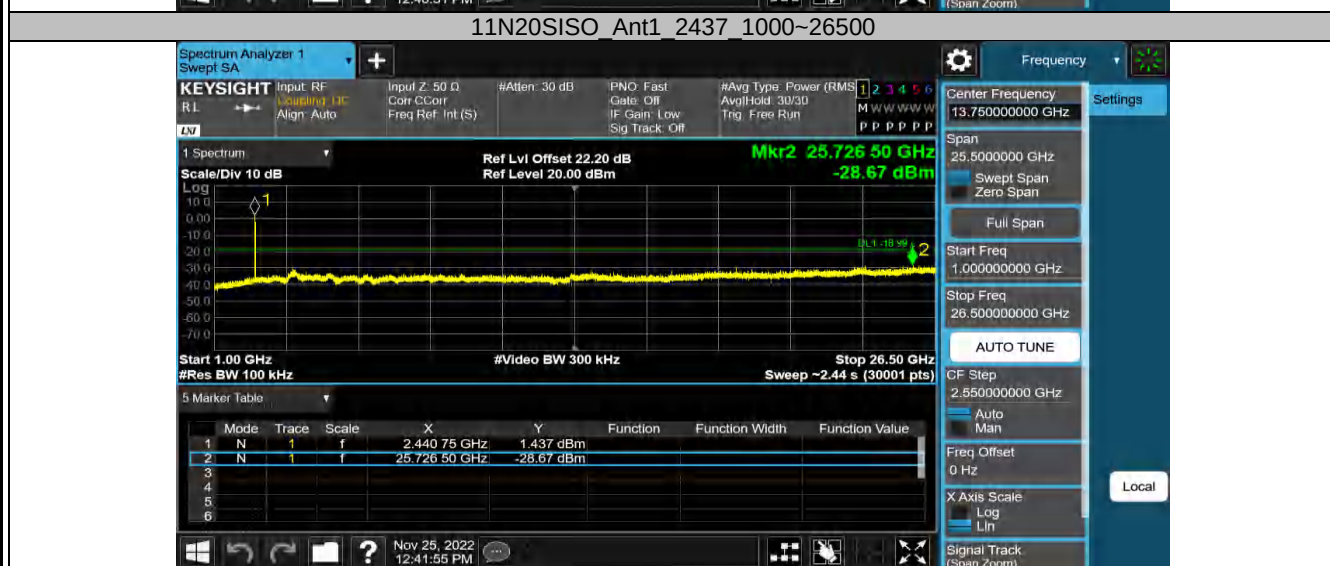
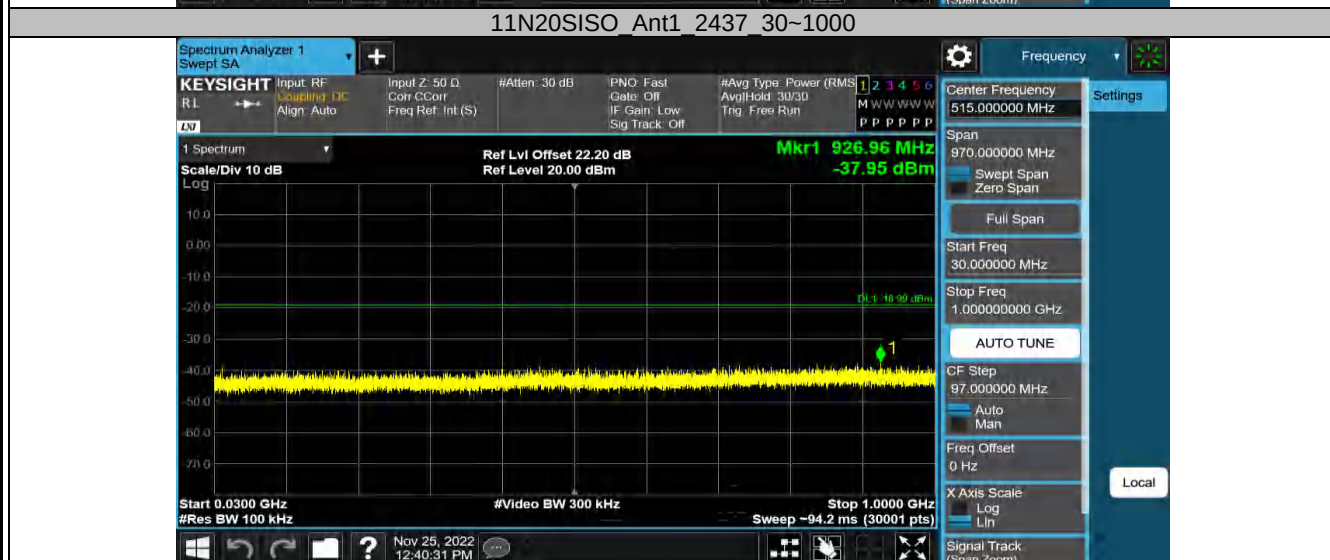
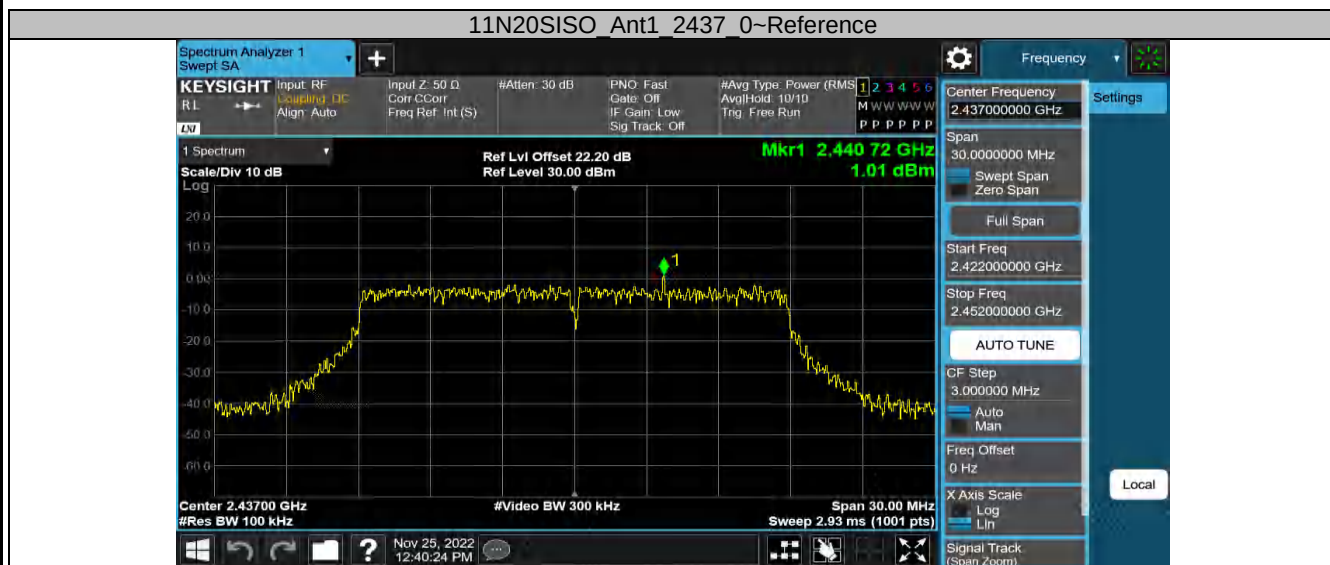
11G_Ant1_2462_30-1000



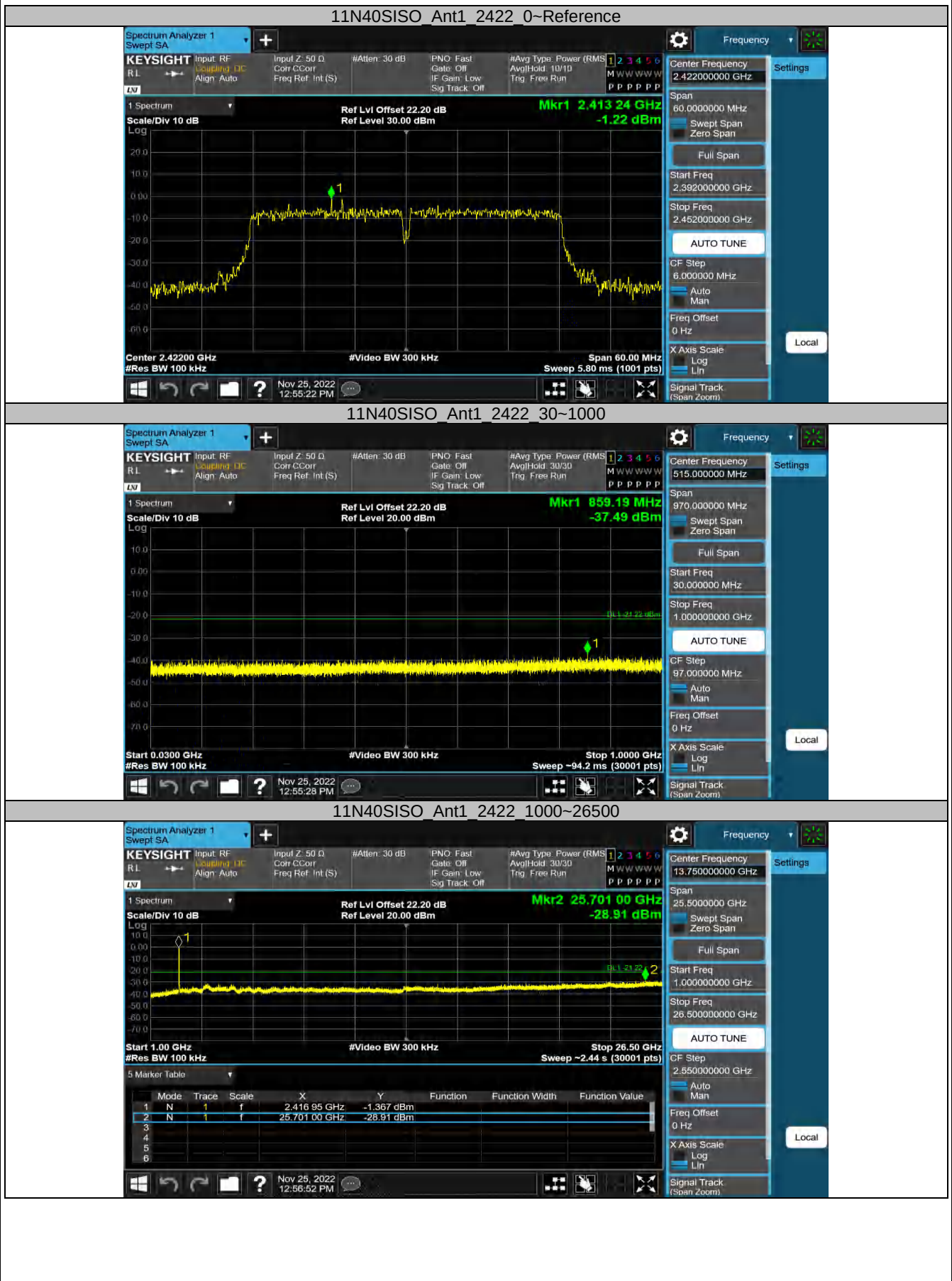
11G_Ant1_2462_1000-26500

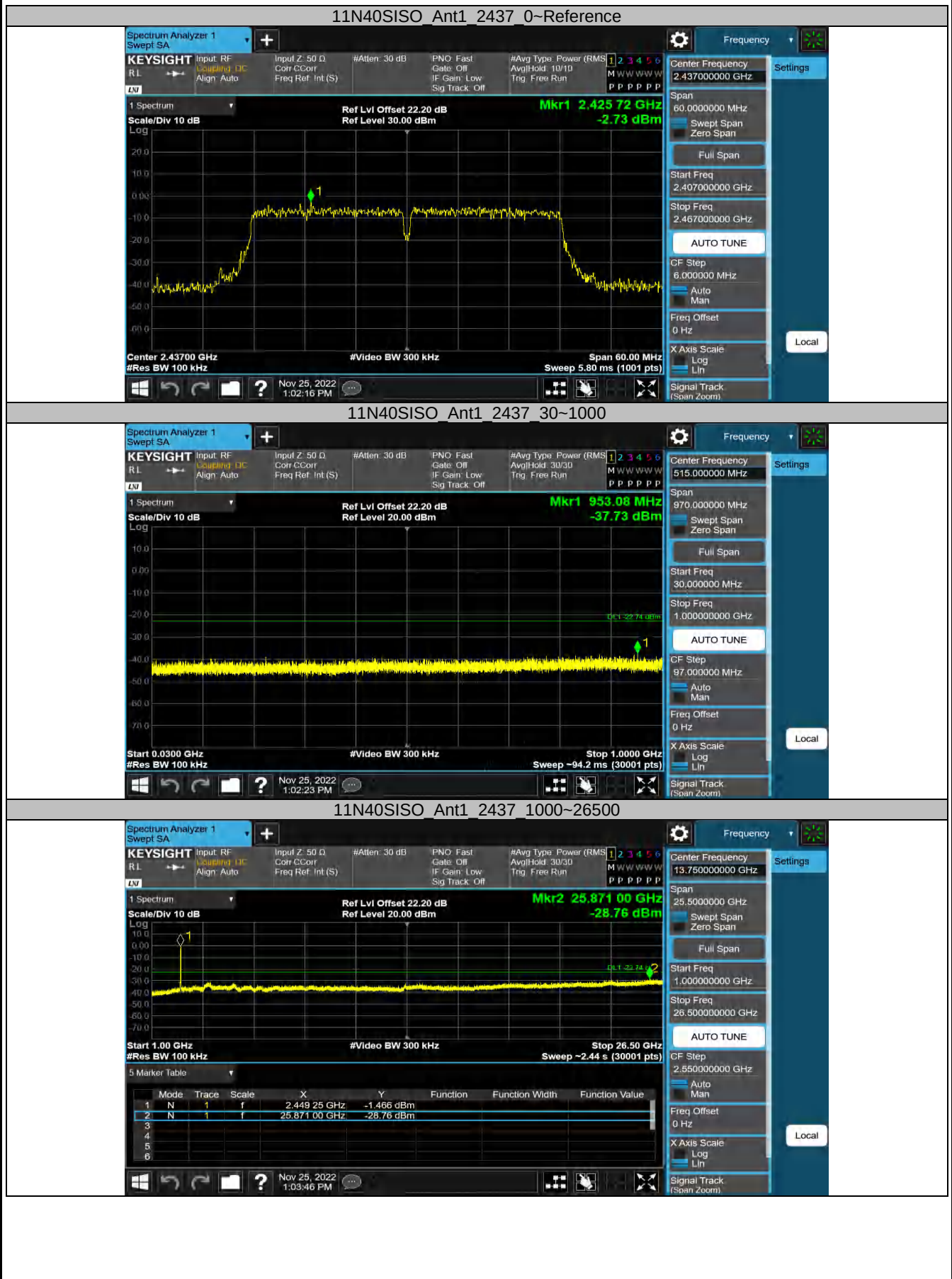








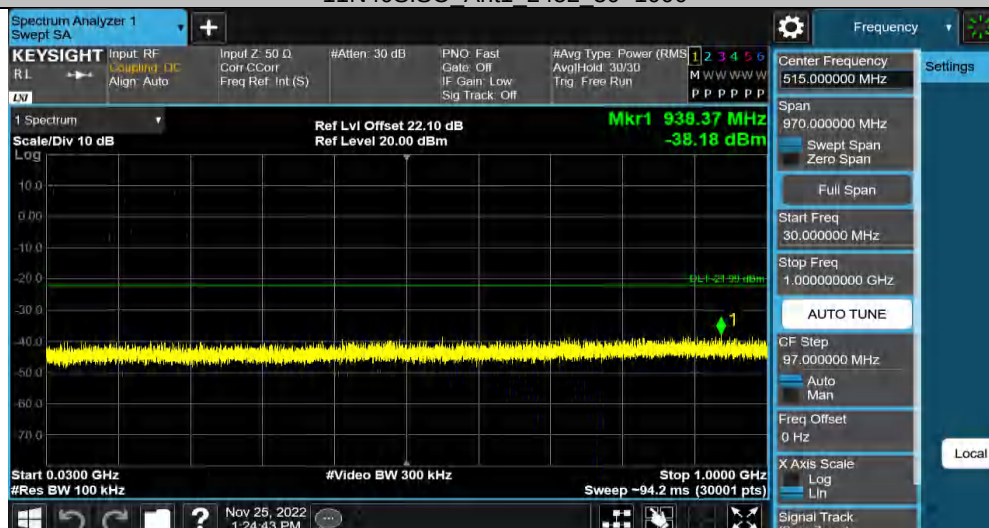




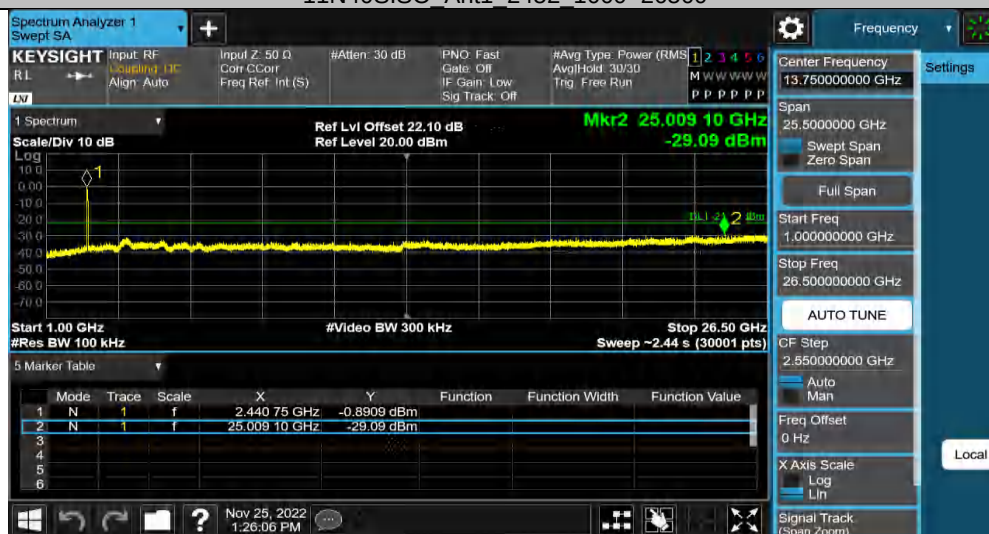
11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000



11N40SISO_Ant1_2452_1000~26500



Appendix B.5: Test Results of Radiated Spurious Emissions

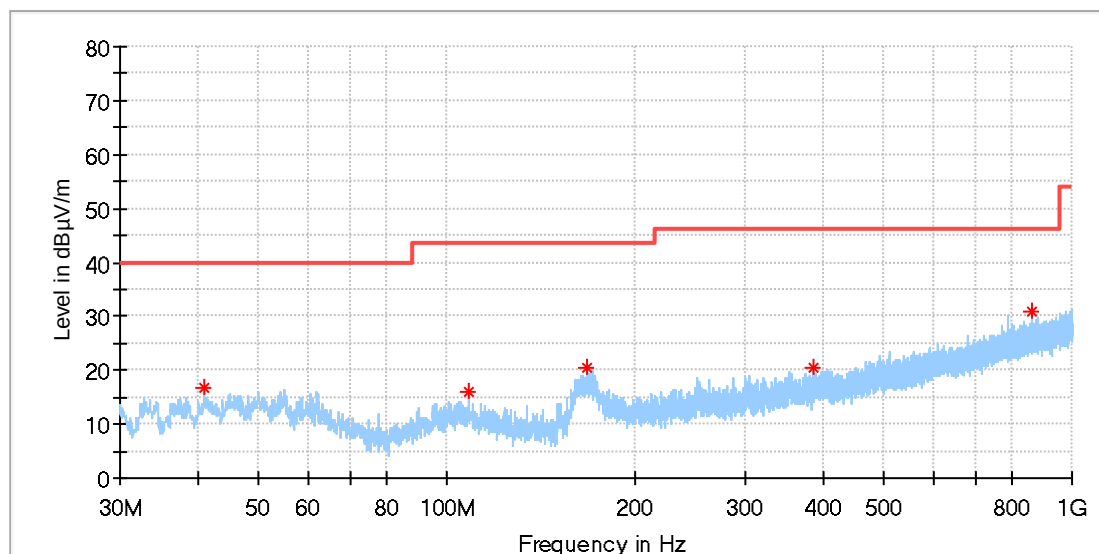
Note: 1. Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and above 18GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported. 2. This testing was carried out on different modulations, 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/A003376067-003
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

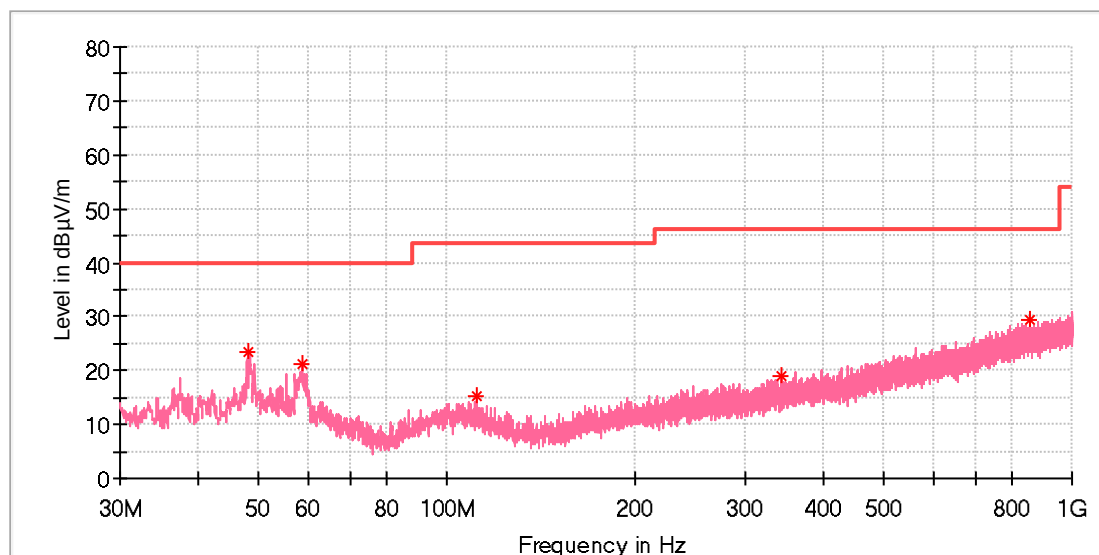
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
40.912500	16.61	40.00	23.39	100.0	H	207.0	-19.9
108.570000	16.03	43.50	27.47	100.0	H	229.0	-19.0
167.594500	20.29	43.50	23.21	100.0	H	236.0	-21.3
387.154000	20.43	46.00	25.57	100.0	H	2.0	-14.0
862.696500	30.75	46.00	15.25	100.0	H	0.0	-5.3

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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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/A003376067-003
 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	23.59	40.00	16.41	100.0	V	17.0	-18.4
58.566500	21.11	40.00	18.89	100.0	V	346.0	-18.8
111.528500	15.19	43.50	28.31	100.0	V	311.0	-19.3
342.825000	19.04	46.00	26.96	100.0	V	185.0	-14.9
858.525500	29.31	46.00	16.69	100.0	V	17.0	-5.4

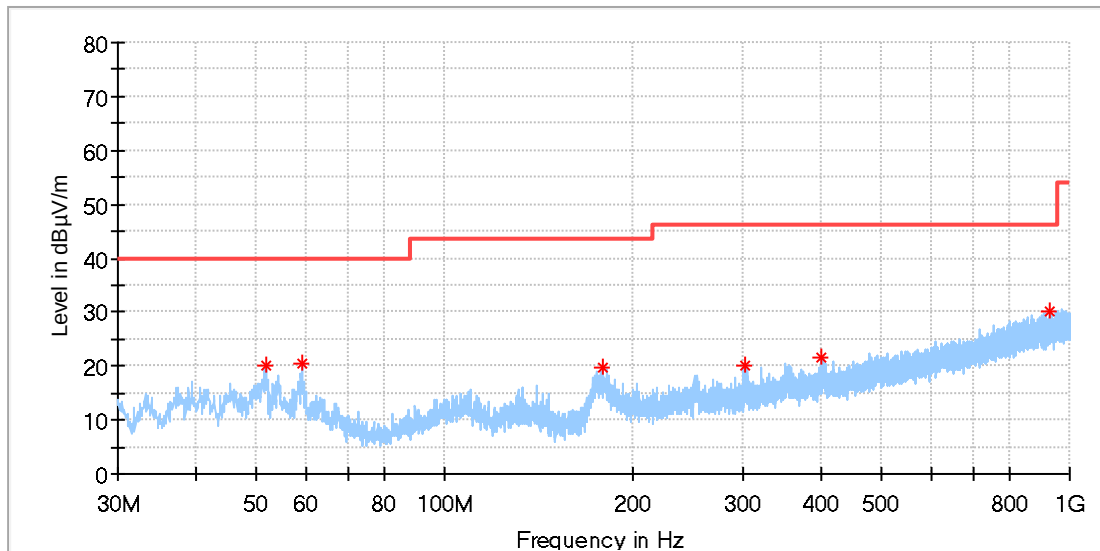
Final Result

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/A003417510-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

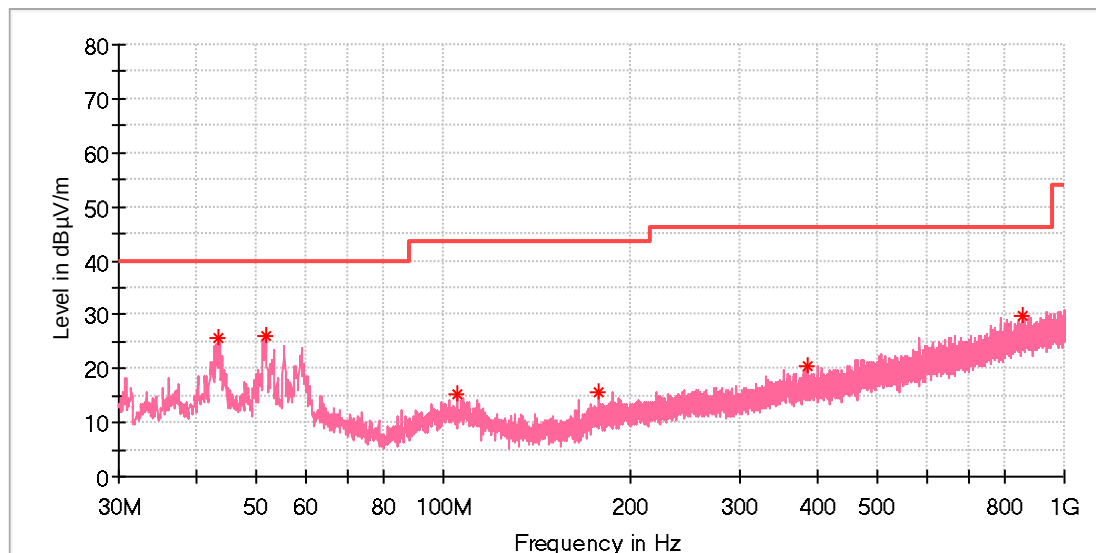
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
51.728000	20.18	40.00	19.82	100.0	H	180.0	-18.4
59.197000	20.44	40.00	19.56	100.0	H	279.0	-18.9
179.283000	19.74	43.50	23.76	100.0	H	103.0	-20.6
302.909500	20.21	46.00	25.79	100.0	H	124.0	-16.2
400.055000	21.65	46.00	24.35	100.0	H	349.0	-13.6
925.989000	30.14	46.00	15.86	100.0	H	30.0	-4.7

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/A003417510-001
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)
43.531500	25.53	40.00	14.47	100.0	V	192.0	-19.1
51.776500	26.00	40.00	14.00	100.0	V	199.0	-18.4
104.981000	15.43	43.50	28.07	100.0	V	71.0	-18.7
177.391500	15.67	43.50	27.83	100.0	V	343.0	-20.7
386.135500	20.48	46.00	25.52	100.0	V	323.0	-14.0
855.567000	29.70	46.00	16.30	100.0	V	80.0	-5.4

Final_Result

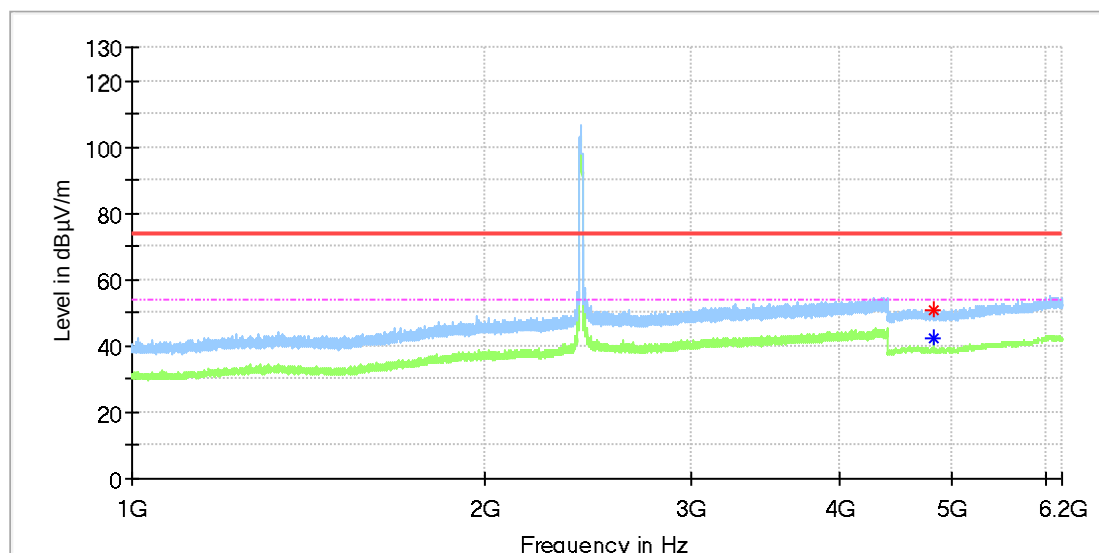
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

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/A003376067-003
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

**Critical_Freqs**

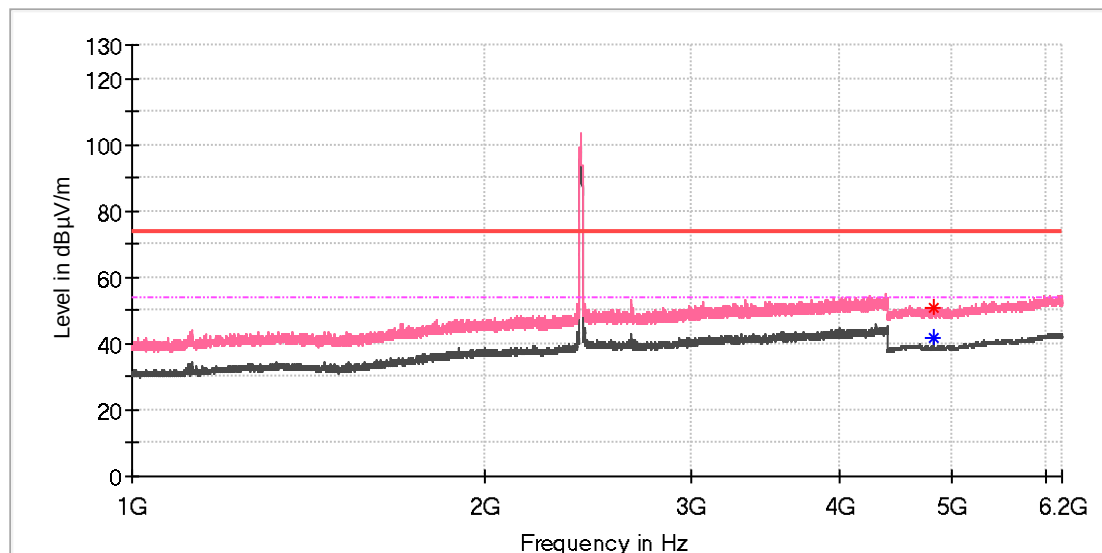
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4812.500000	50.63	---	74.00	23.37	100.0	H	271.0	11.8
4824.000000	---	42.52	54.00	11.48	100.0	H	194.0	11.8

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/A003376067-003
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

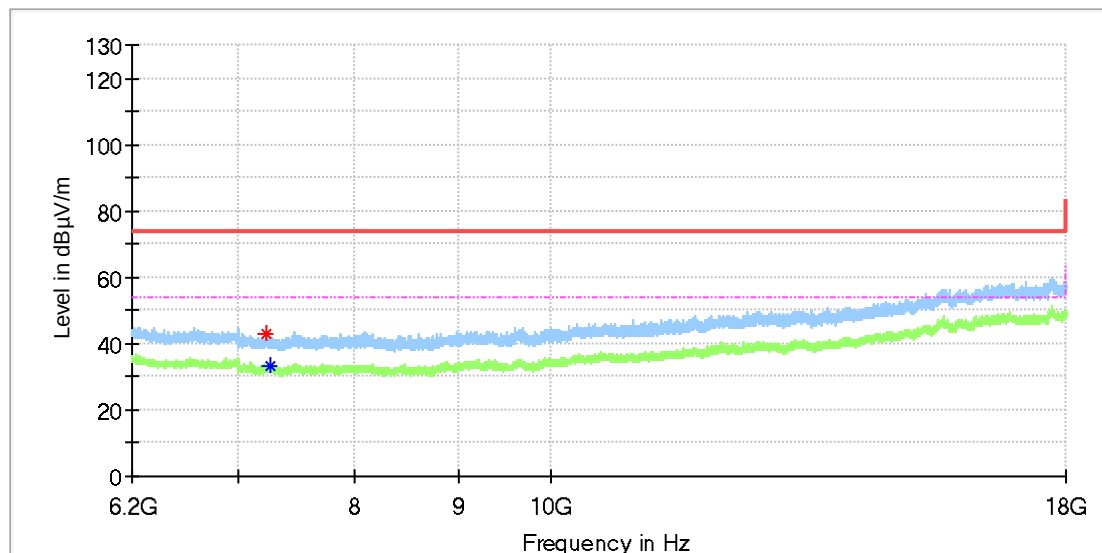
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4824.000000	50.49	---	74.00	23.51	100.0	V	269.0	11.8
4824.000000	---	41.45	54.00	12.55	100.0	V	269.0	11.8

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/A003376067-003
Test Voltage: Battery
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

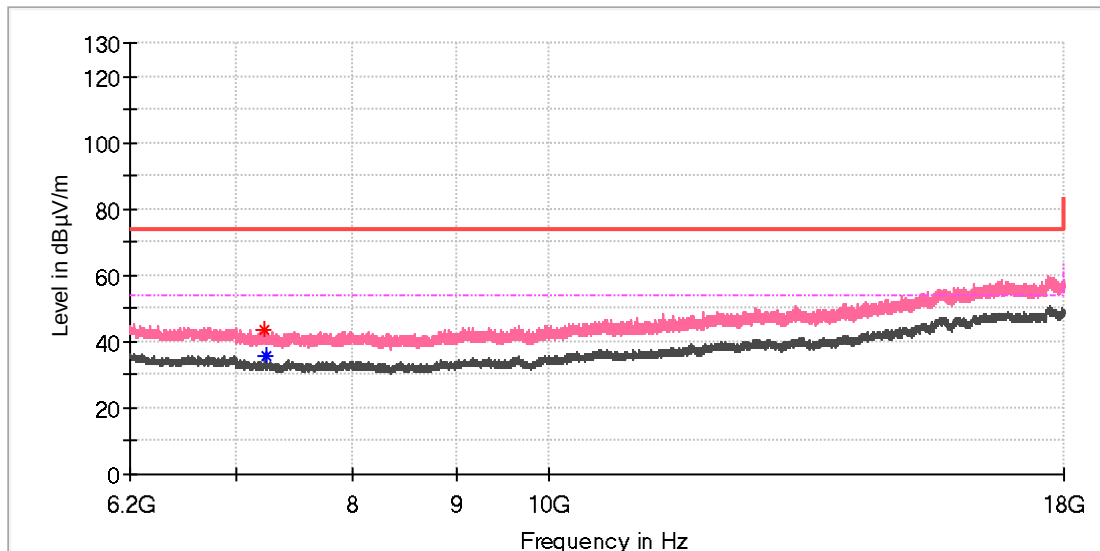
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7234.466667	43.11	---	74.00	30.89	100.0	H	34.0	8.6
7257.083333	---	33.48	54.00	20.52	100.0	H	0.0	8.5

Final Result

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

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	S81USP
Test Mode:	WIFI 2.4G_11b_Ch1
Order No/Sample No:	168397766/A003376067-003
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

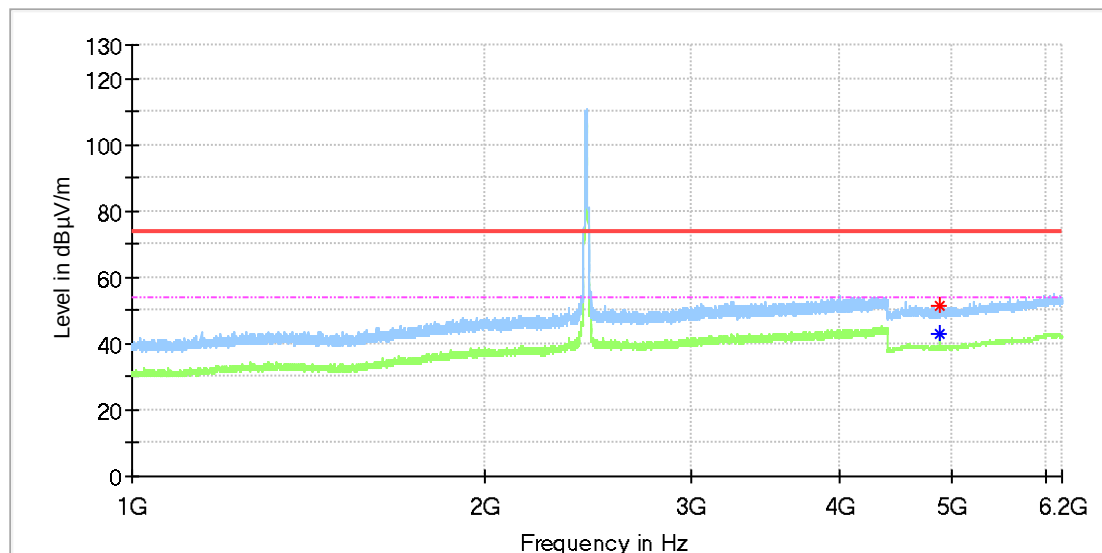
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7234.958333	43.76	---	74.00	30.24	100.0	V	21.0	8.6
7235.941667	---	35.83	54.00	18.17	100.0	V	34.0	8.6

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/A003376067-003
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

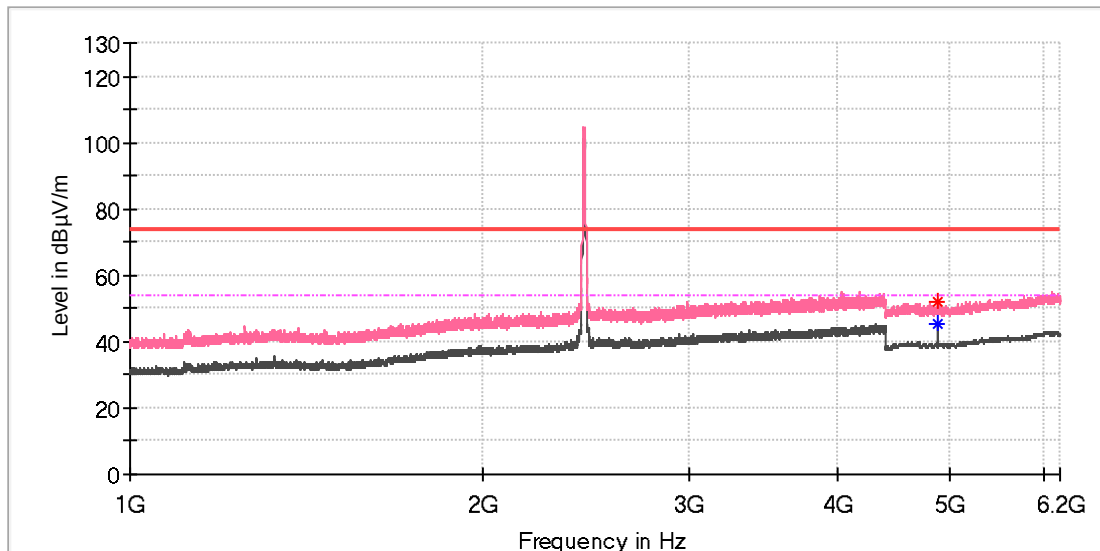
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4874.000000	---	43.15	54.00	10.85	100.0	H	198.0	11.8
4874.500000	51.45	---	74.00	22.55	100.0	H	198.0	11.8

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/A003376067-003
Test Voltage: Battery
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

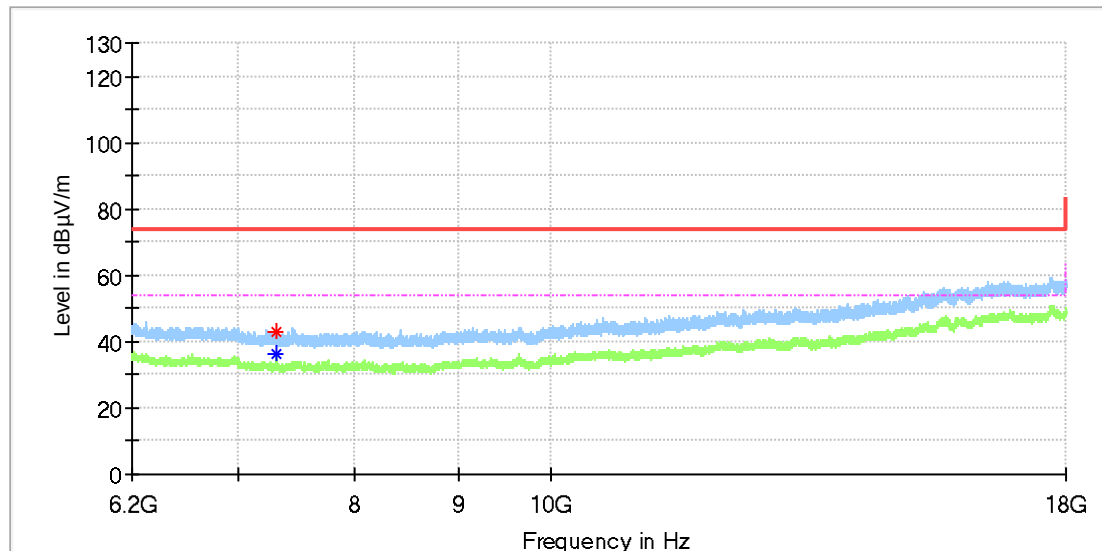
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4873.500000	51.85	---	74.00	22.15	100.0	V	67.0	11.8
4874.000000	---	45.23	54.00	8.77	100.0	V	6.0	11.8

Final Result

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

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	S81USP
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168397766/A003376067-003
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

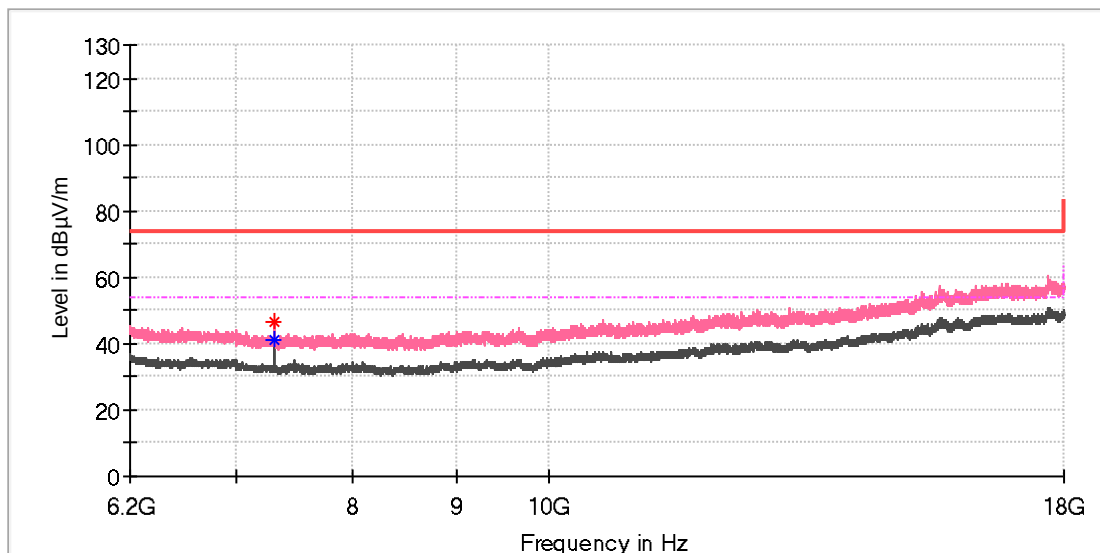
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7309.200000	42.70	---	74.00	31.30	100.0	H	117.0	8.2
7310.675000	---	36.14	54.00	17.86	100.0	H	117.0	8.2

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_11b_Ch6
Order No/Sample No: 168397766/A003376067-003
Test Voltage: Battery
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

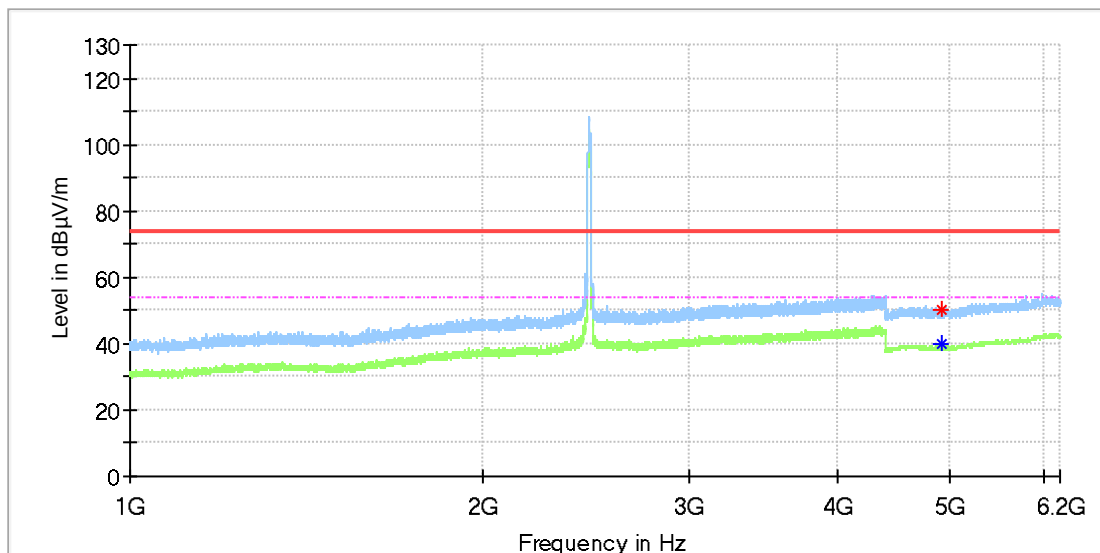
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7309.200000	46.65	---	74.00	27.35	100.0	V	356.0	8.2
7309.691667	---	41.28	54.00	12.72	100.0	V	356.0	8.2

Final Result

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

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	S81USP
Test Mode:	WIFI 2.4G_11b_Ch11
Order No/Sample No:	168397766/A003376067-003
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

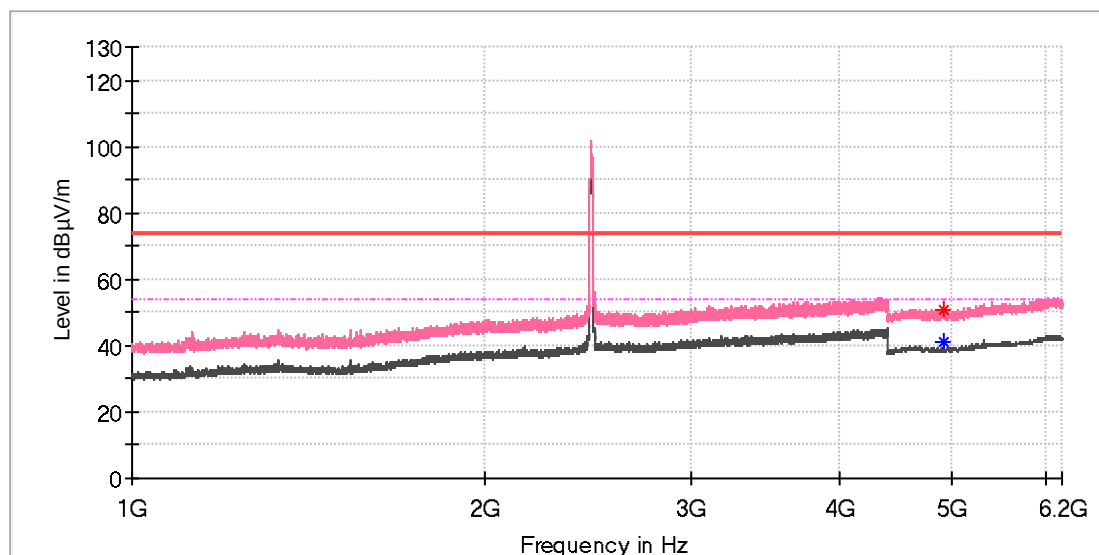
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4919.500000	50.38	---	74.00	23.62	100.0	H	333.0	11.8
4924.000000	---	40.05	54.00	13.95	100.0	H	141.0	11.8

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/A003376067-003
 Test Voltage: Battery
 Remark: Temp 23 Humi:58%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

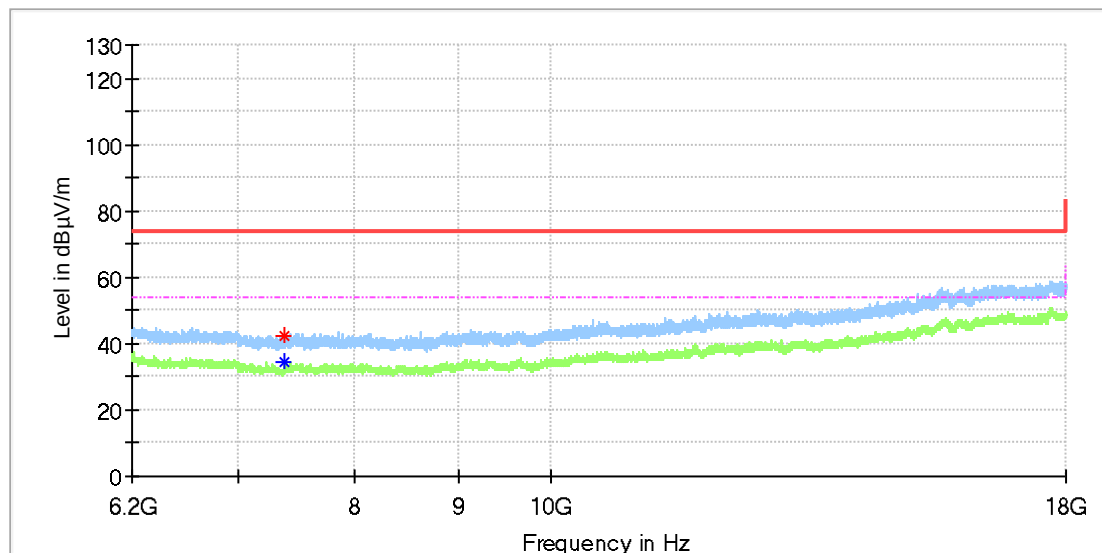
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4924.000000	50.62	---	74.00	23.38	100.0	V	6.0	11.8
4924.000000	---	41.26	54.00	12.74	100.0	V	6.0	11.8

Final Result

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

EUT Information

EUT Name: Robotic Vacuum Cleaner
Model: S81USP
Test Mode: WIFI 2.4G_11b_Ch11
Order No/Sample No: 168397766/A003376067-003
Test Voltage: Battery
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

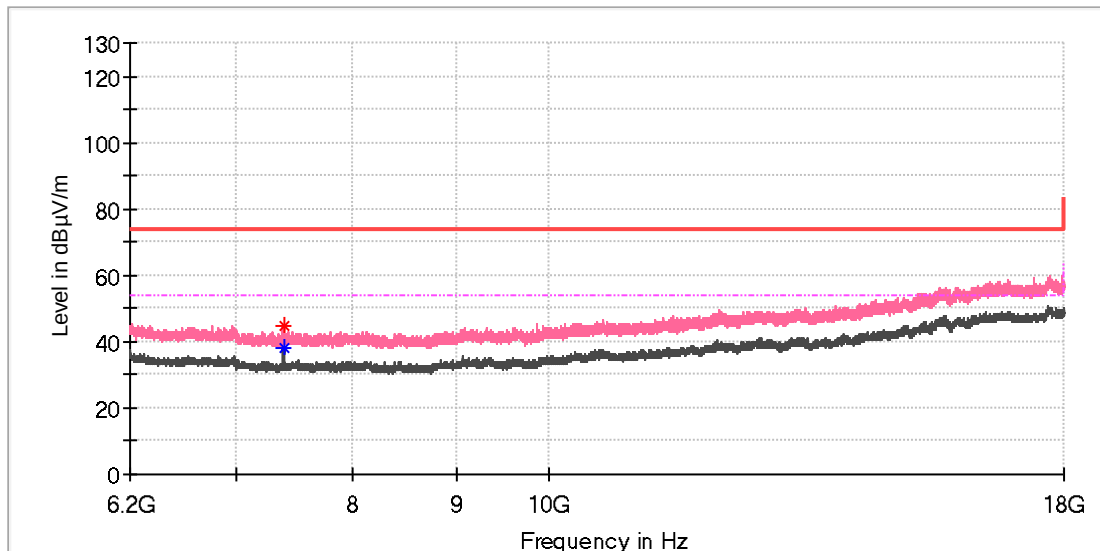
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7383.933333	42.09	---	74.00	31.91	100.0	H	160.0	8.2
7383.933333	---	34.57	54.00	19.43	100.0	H	160.0	8.2

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/A003376067-003
Test Voltage: Battery
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

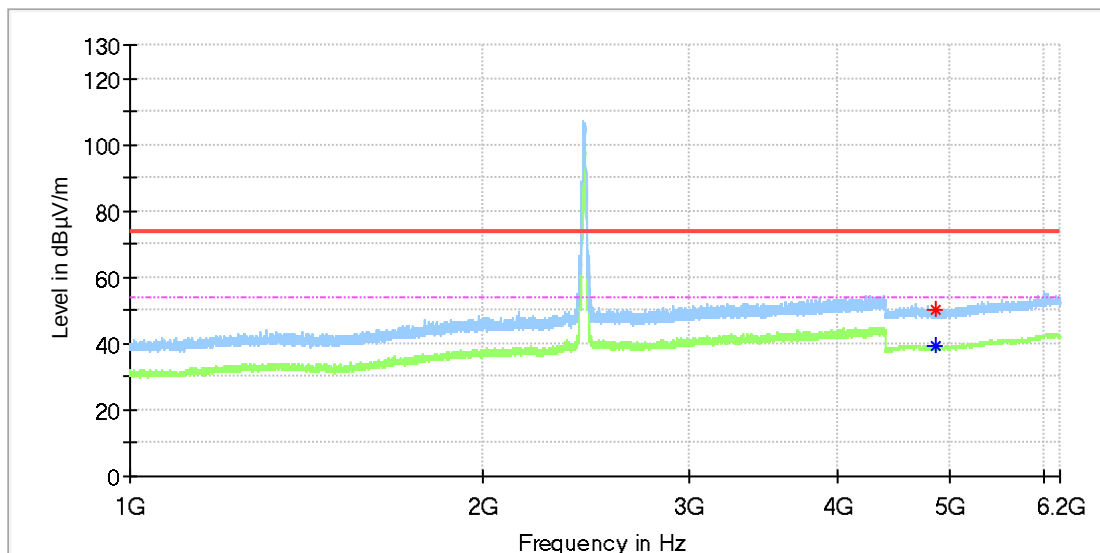
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7387.375000	44.50	---	74.00	29.50	100.0	V	348.0	8.2
7387.866667	---	38.01	54.00	15.99	100.0	V	323.0	8.2

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/A003376067-003
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

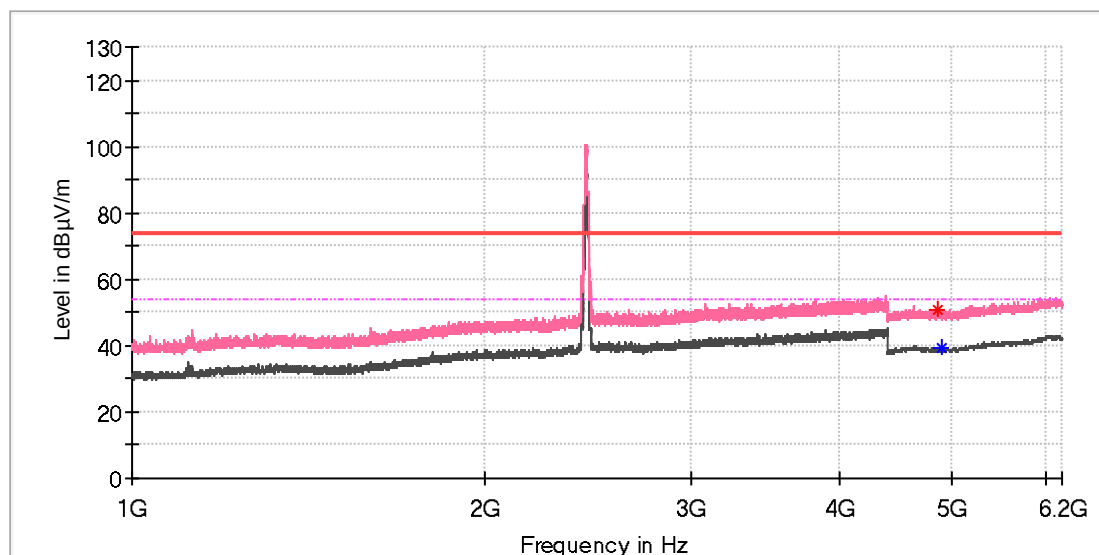
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4851.000000	---	39.17	54.00	14.83	100.0	H	252.0	11.8
4867.500000	50.14	---	74.00	23.86	100.0	H	340.0	11.8

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/A003376067-003
 Test Voltage: Battery
 Remark: Temp 23 Humi:58%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

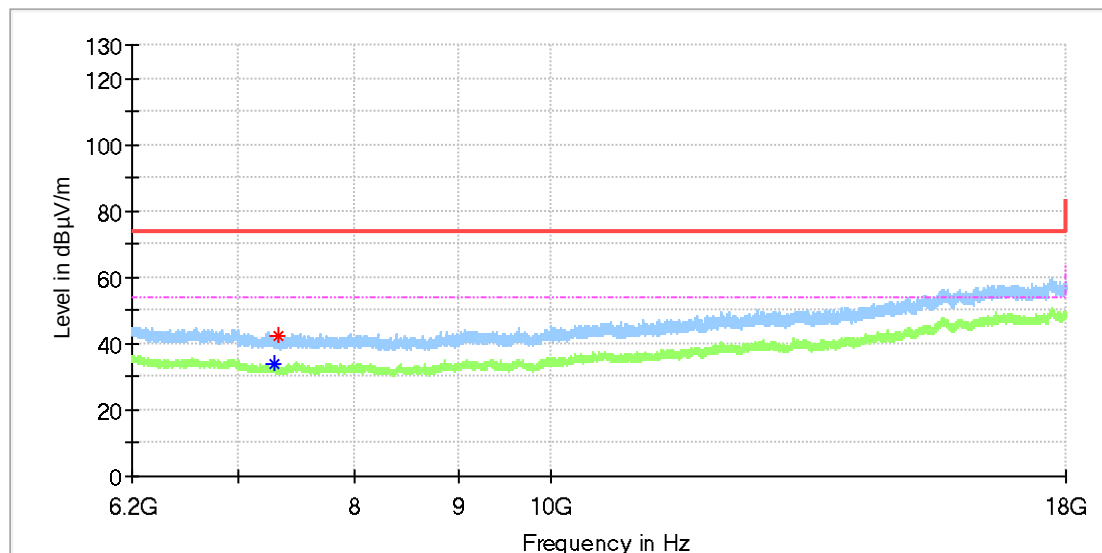
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4865.000000	50.73	---	74.00	23.27	100.0	V	329.0	11.8
4891.500000	---	39.21	54.00	14.79	100.0	V	205.0	11.8

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/A003376067-003
Test Voltage: Battery
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

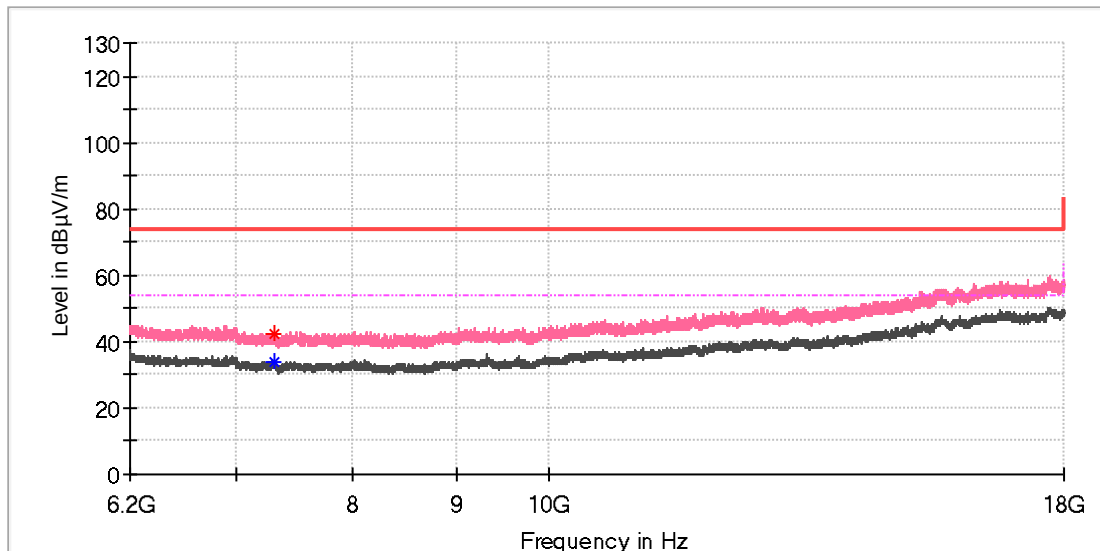
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7297.400000	---	33.90	54.00	20.10	100.0	H	257.0	8.3
7328.866667	42.05	---	74.00	31.95	100.0	H	22.0	8.1

Final_Result

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

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	S81USP
Test Mode:	WIFI 2.4G_11g_Ch6
Order No/Sample No:	168397766/A003376067-003
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

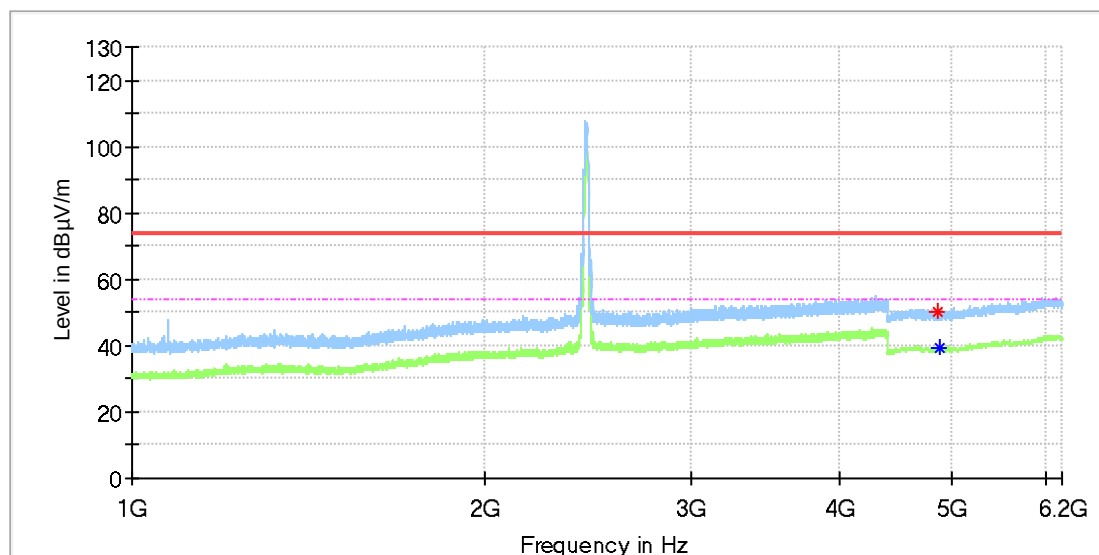
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7309.200000	42.52	---	74.00	31.48	100.0	V	0.0	8.2
7312.641667	---	34.06	54.00	19.94	100.0	V	278.0	8.2

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/A003376067-003
 Test Voltage: Battery
 Remark: Temp 23 Humi:58%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

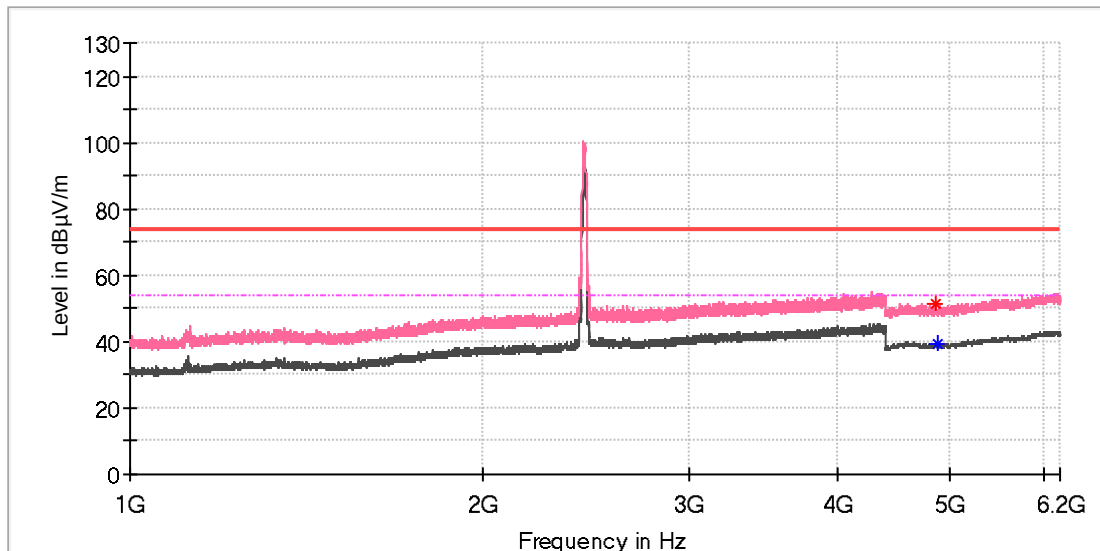
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4867.500000	50.13	---	74.00	23.87	100.0	H	222.0	11.8
4868.500000	---	39.29	54.00	14.71	100.0	H	174.0	11.8

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/A003376067-003
Test Voltage: Battery
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

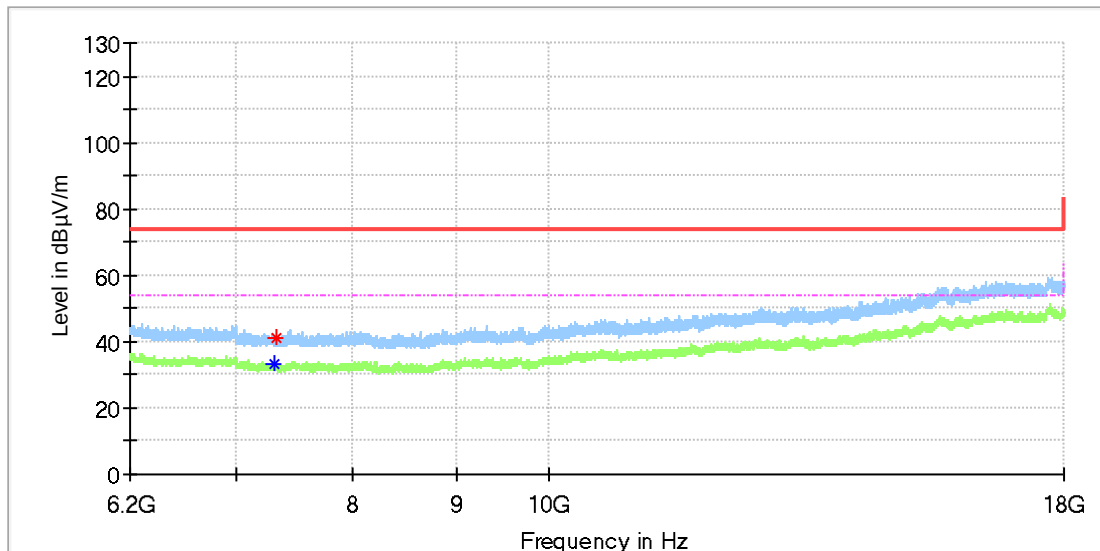
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4866.000000	51.13	---	74.00	22.87	100.0	V	357.0	11.8
4870.500000	---	39.03	54.00	14.97	100.0	V	138.0	11.8

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/A003376067-003
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

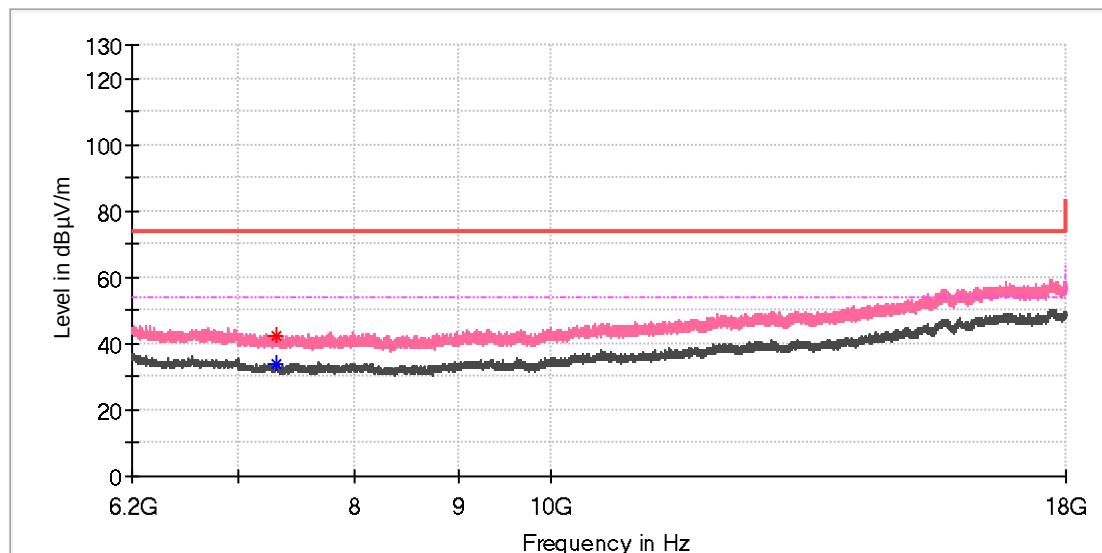
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7307.233333	---	33.15	54.00	20.85	100.0	H	310.0	8.3
7319.033333	41.38	---	74.00	32.62	100.0	H	127.0	8.2

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/A003376067-003
Test Voltage: Battery
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

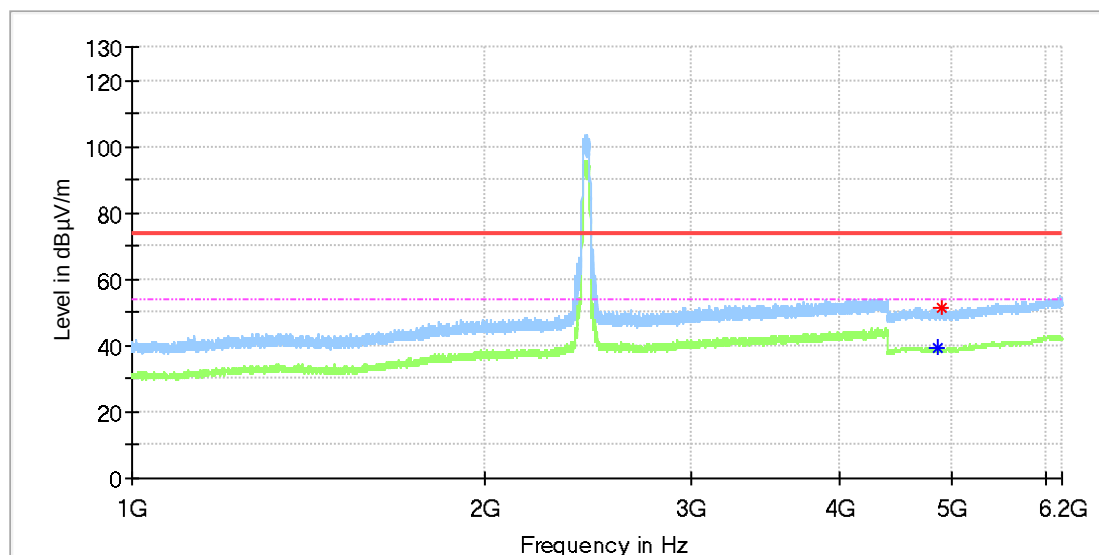
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7311.658333	42.59	---	74.00	31.41	100.0	V	0.0	8.2
7317.558333	---	33.84	54.00	20.16	100.0	V	17.0	8.2

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/A003376067-003
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

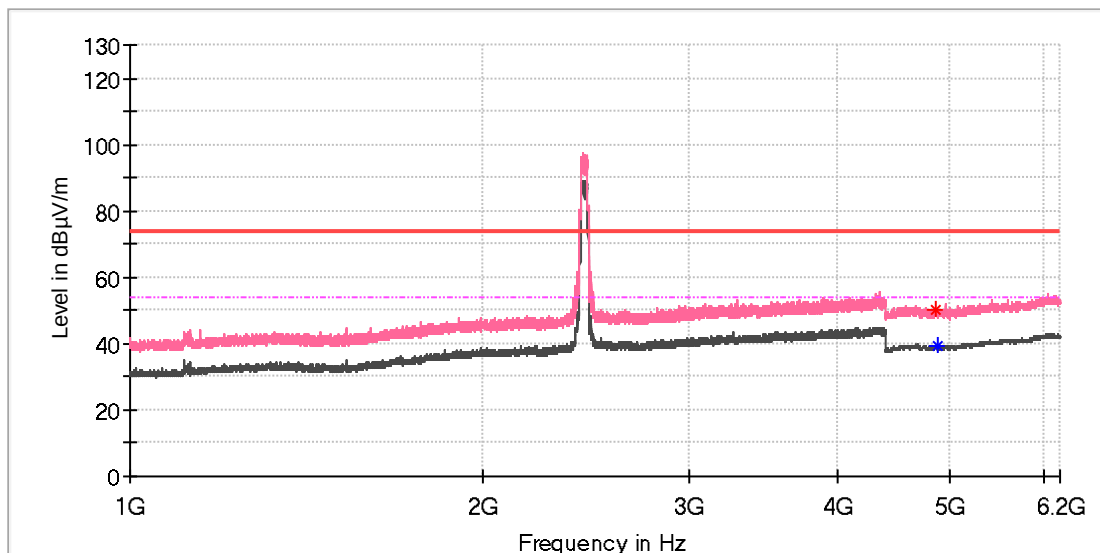
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4860.000000	---	39.12	54.00	14.88	100.0	H	293.0	11.8
4899.500000	51.32	---	74.00	22.68	100.0	H	155.0	11.8

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/A003376067-003
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

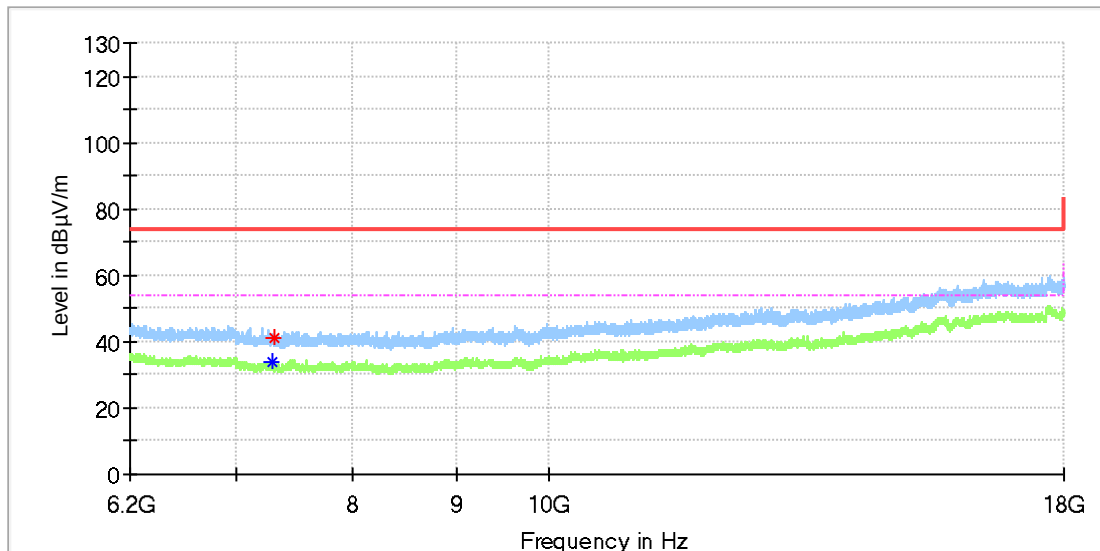
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4866.000000	50.16	---	74.00	23.84	100.0	V	358.0	11.8
4876.500000	---	39.06	54.00	14.94	100.0	V	326.0	11.8

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/A003376067-003
Test Voltage: Battery
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

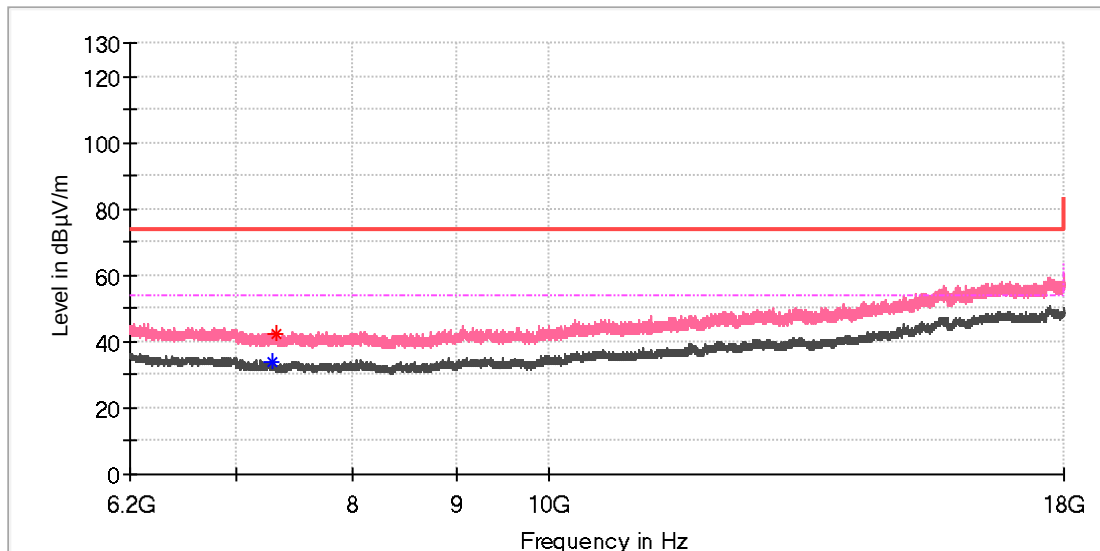
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7285.600000	---	33.56	54.00	20.44	100.0	H	194.0	8.4
7313.625000	41.38	---	74.00	32.62	100.0	H	96.0	8.2

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/A003376067-003
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)
7296.416667	---	33.68	54.00	20.32	100.0	V	229.0	8.3
7319.033333	42.10	---	74.00	31.90	100.0	V	0.0	8.2

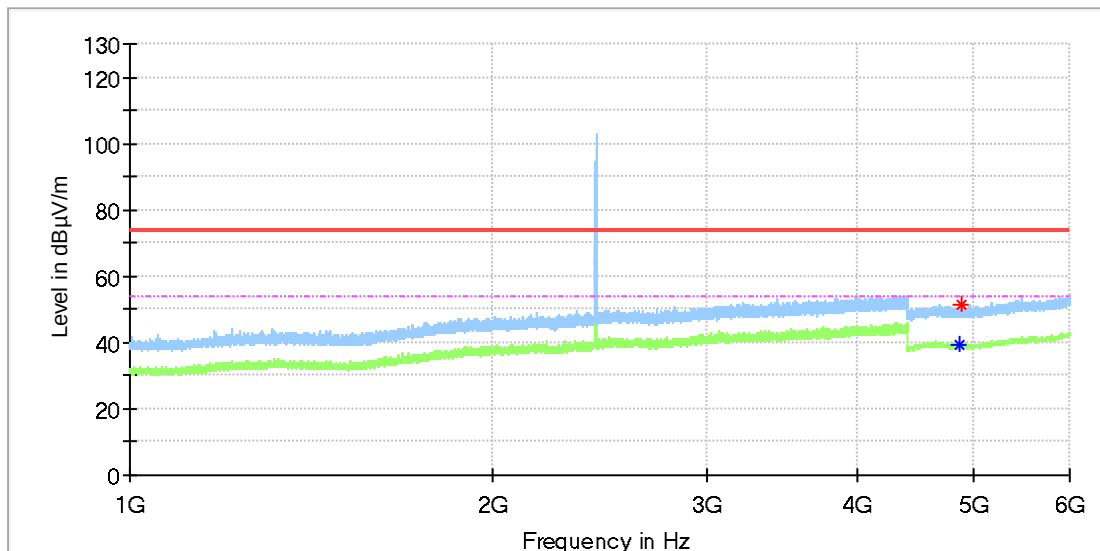
Final_Result

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/A003417510-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

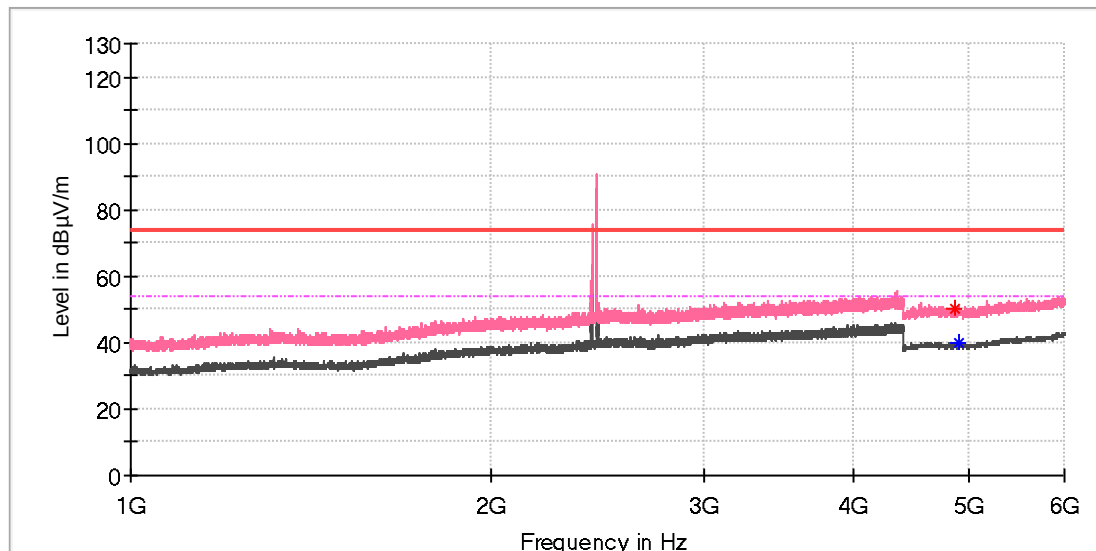
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4861.777778	---	39.33	54.00	14.67	100.0	H	55.0	11.8
4872.444445	51.13	---	74.00	22.87	100.0	H	250.0	11.8

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/A003417510-001
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)
4858.222222	50.08	---	74.00	23.92	100.0	V	221.0	11.8
4892.000000	---	39.69	54.00	14.31	100.0	V	0.0	11.8

Final Result

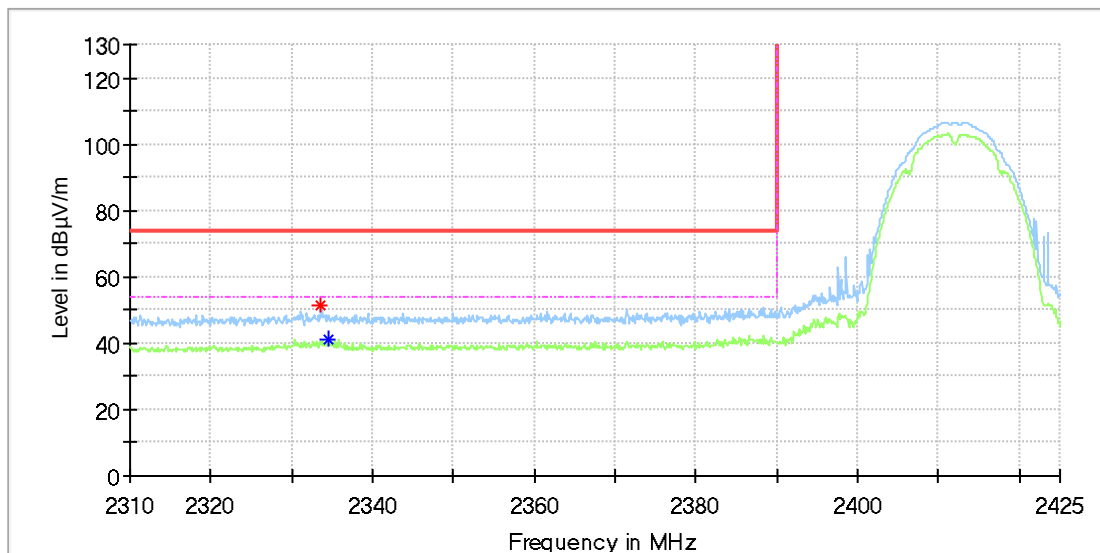
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

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/A003376067-003
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

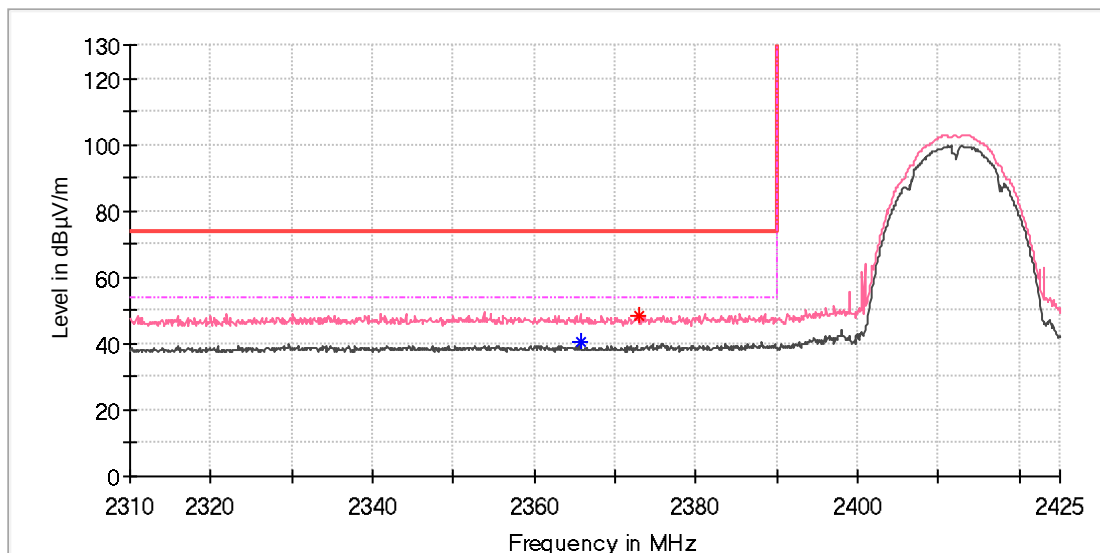
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2333.600000	51.33	---	74.00	22.67	100.0	H	256.0	6.7
2334.600000	---	41.31	54.00	12.69	100.0	H	127.0	6.8

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_Ch1
Order No/Sample No: 168397766/A003376067-003
Test Voltage: Battery
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

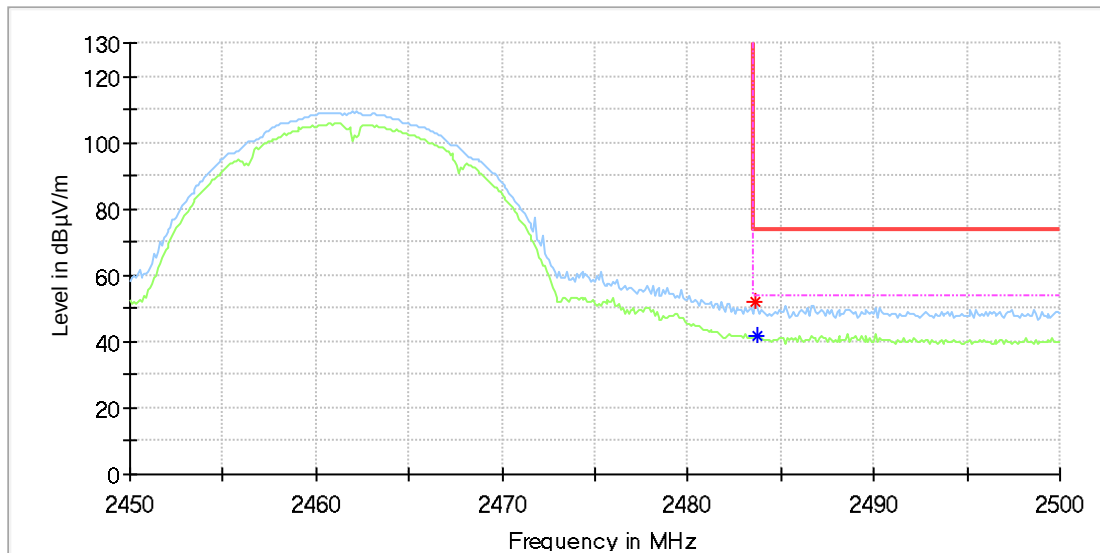
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2365.700000	---	40.25	54.00	13.75	100.0	V	0.0	6.9
2372.900000	48.67	---	74.00	25.33	100.0	V	88.0	6.9

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/A003376067-003
Test Voltage: Battery
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

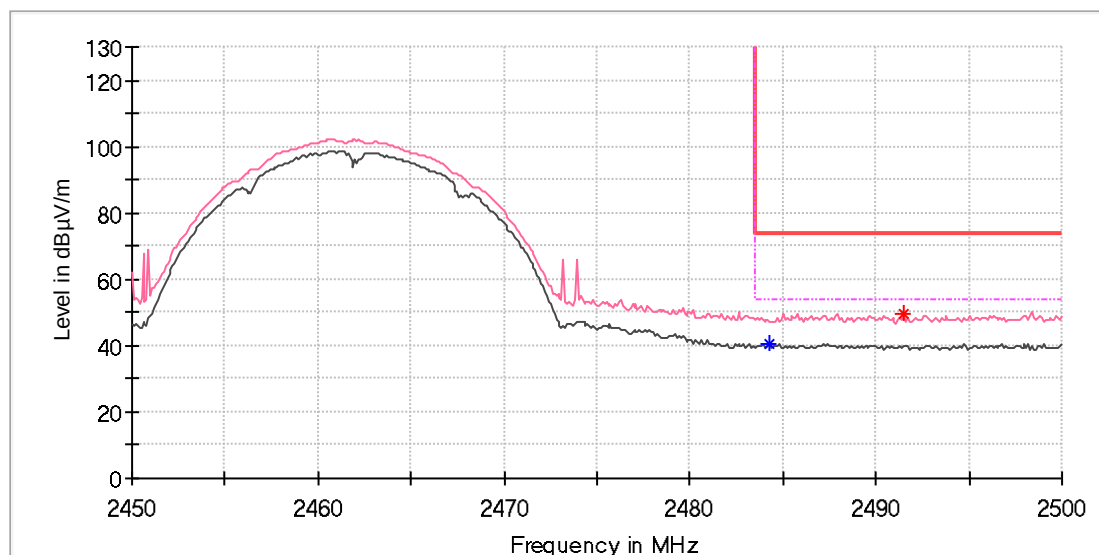
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.600000	51.84	---	74.00	22.16	100.0	H	129.0	7.4
2483.700000	---	41.77	54.00	12.23	100.0	H	311.0	7.4

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/A003376067-003
 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)
2484.300000	---	40.76	54.00	13.24	100.0	V	208.0	7.4
2491.500000	49.64	---	74.00	24.36	100.0	V	8.0	7.4

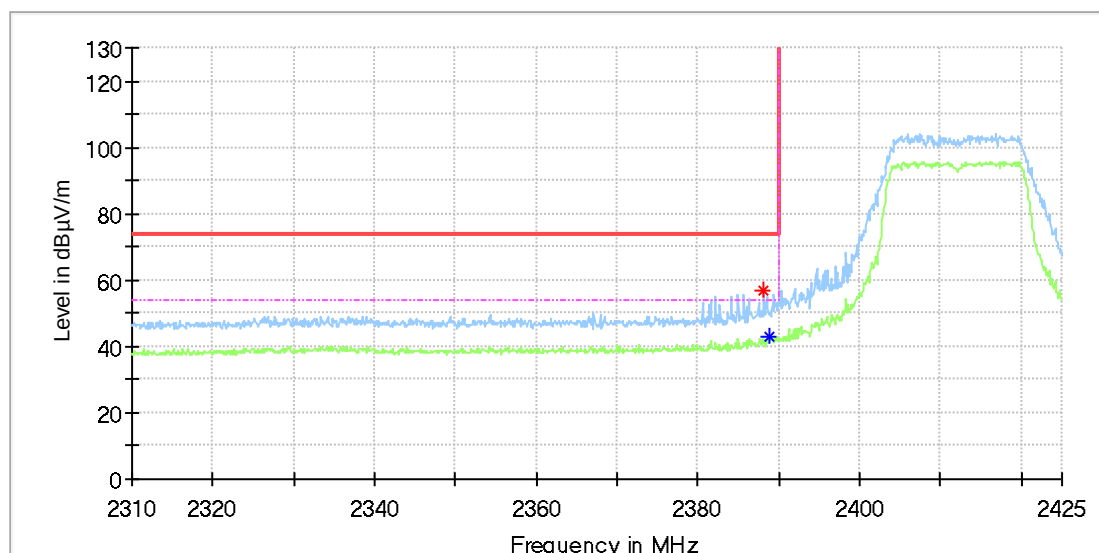
Final Result

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/A003376067-003
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

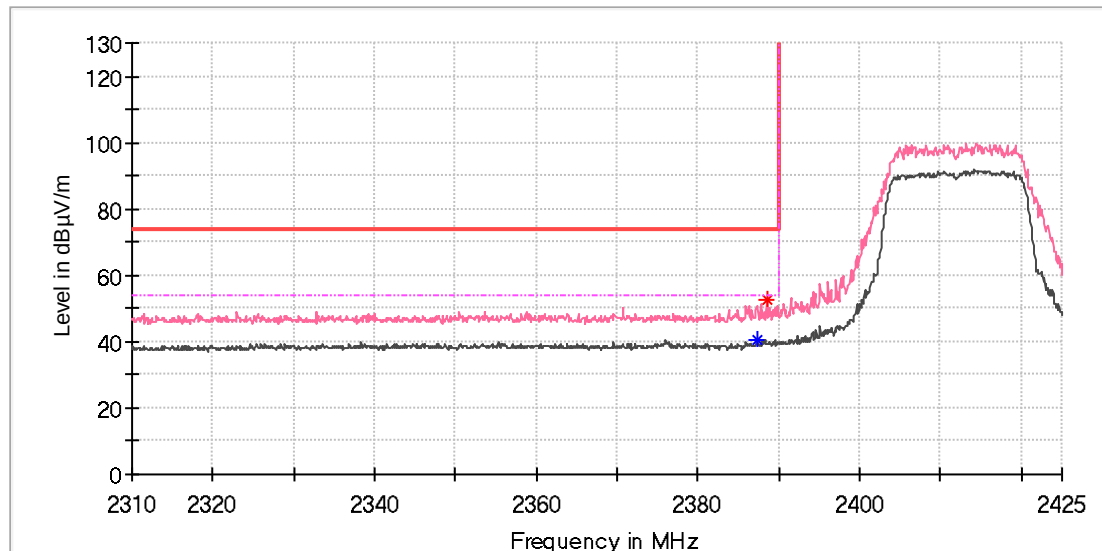
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2388.100000	56.96	---	74.00	17.04	100.0	H	133.0	7.0
2388.700000	---	42.65	54.00	11.35	100.0	H	143.0	7.0

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_Ch1
Order No/Sample No: 168397766/A003376067-003
Test Voltage: Battery
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

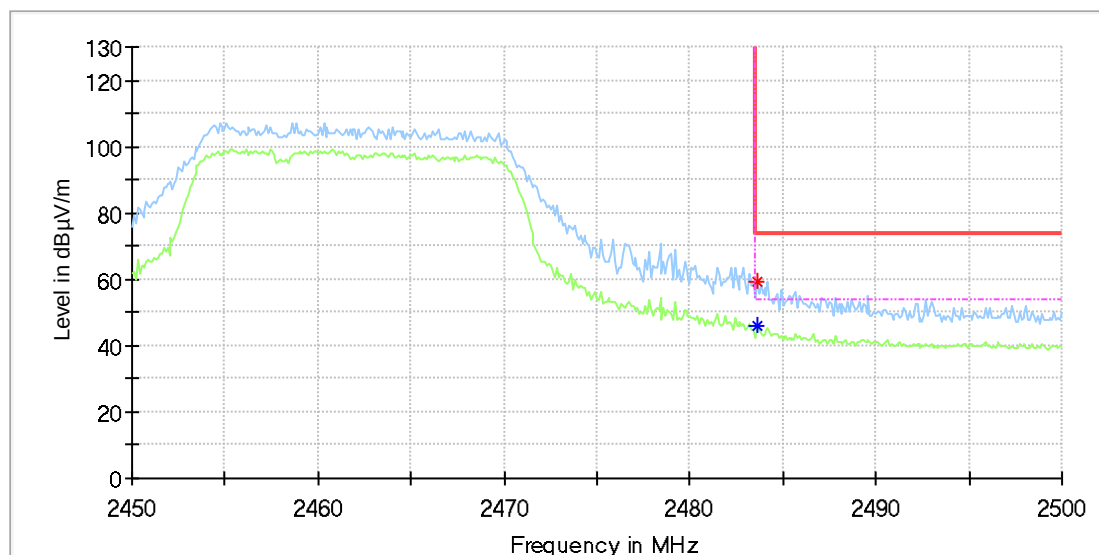
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2387.300000	---	40.79	54.00	13.21	100.0	V	319.0	7.0
2388.500000	52.47	---	74.00	21.53	100.0	V	312.0	7.0

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/A003376067-003
 Test Voltage: Battery
 Remark: Temp 23 Humi:58%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

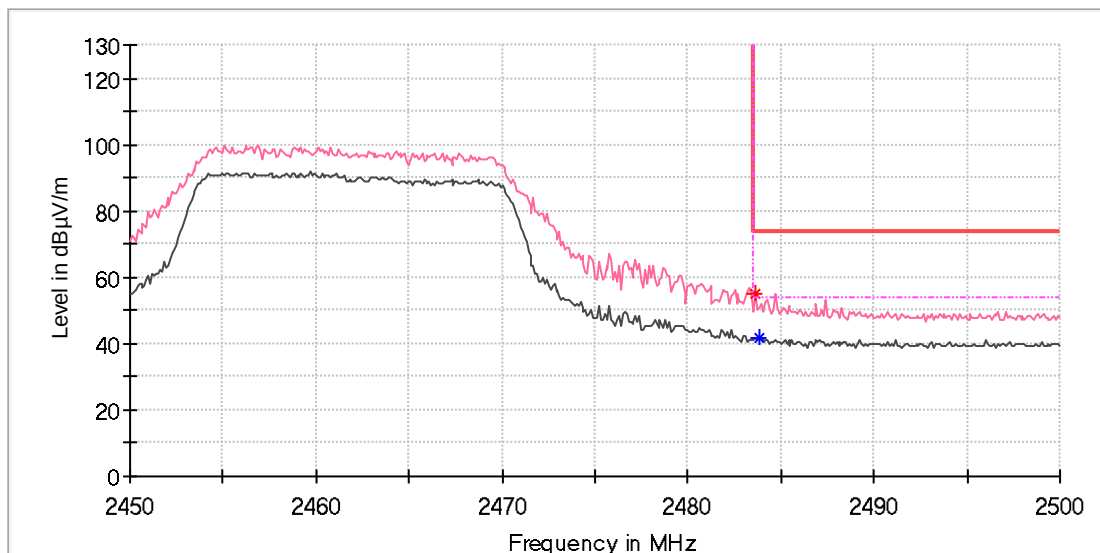
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.600000	---	46.18	54.00	7.82	100.0	H	118.0	7.4
2483.600000	59.34	---	74.00	14.66	100.0	H	118.0	7.4

Final Result

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

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	S81USP
Test Mode:	WIFI 2.4G_11g_Ch11
Order No/Sample No:	168397766/A003376067-003
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)
2483.600000	55.19	---	74.00	18.81	100.0	V	194.0	7.4
2483.800000	---	42.02	54.00	11.98	100.0	V	335.0	7.4

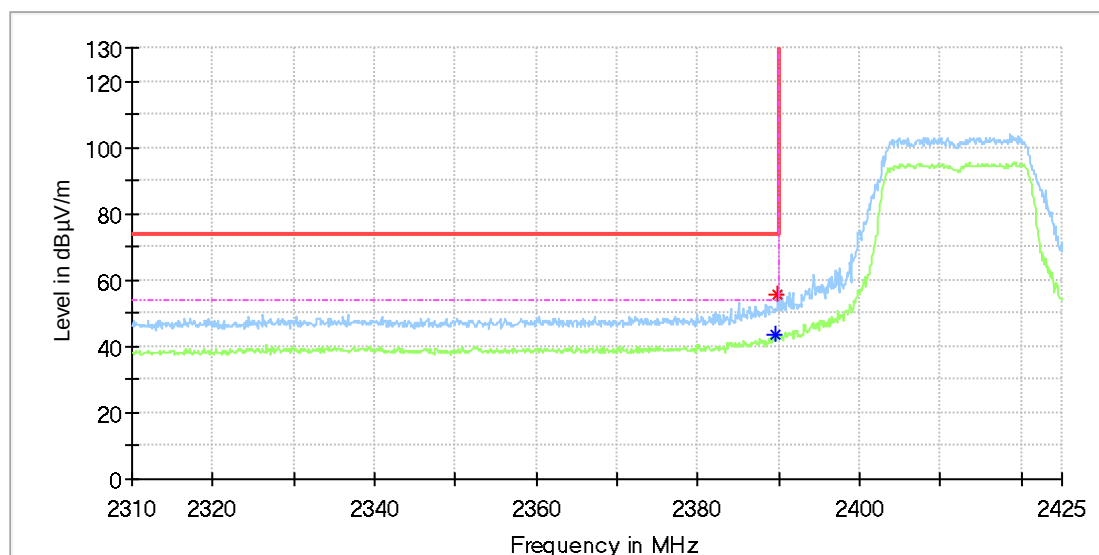
Final Result

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/A003376067-003
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

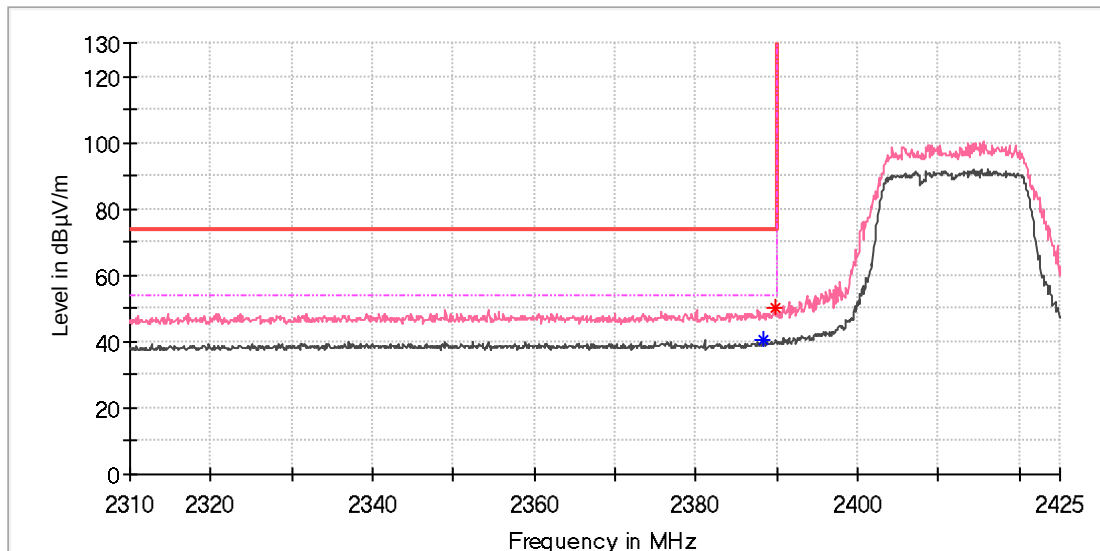
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.500000	---	43.52	54.00	10.48	100.0	H	140.0	7.0
2389.900000	55.85	---	74.00	18.15	100.0	H	140.0	7.0

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_Ch1
Order No/Sample No: 168397766/A003376067-003
Test Voltage: Battery
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

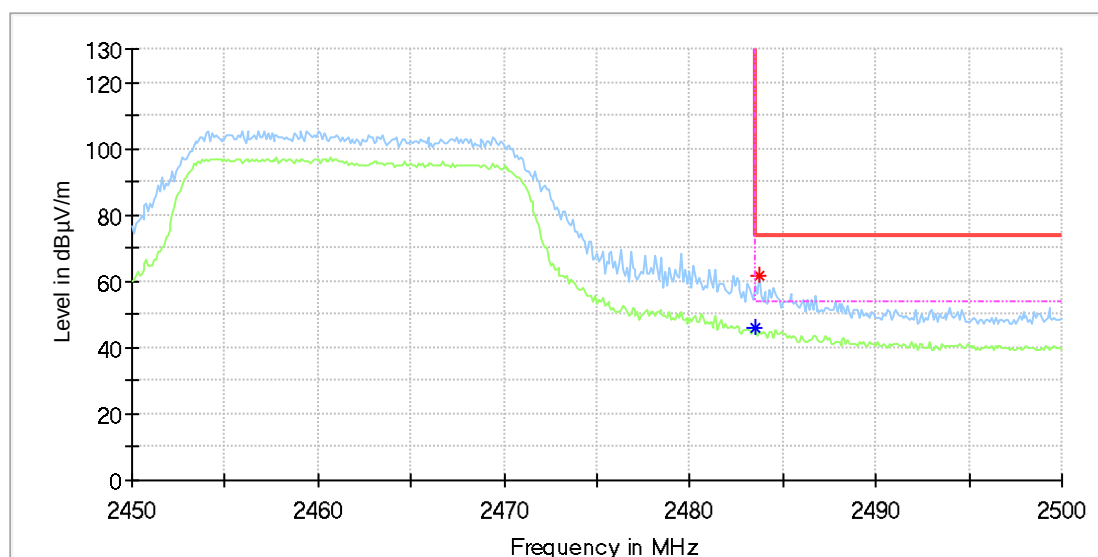
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2388.200000	---	40.30	54.00	13.70	100.0	V	332.0	7.0
2389.800000	50.05	---	74.00	23.95	100.0	V	93.0	7.0

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/A003376067-003
 Test Voltage: Battery
 Remark: Temp 23 Humi:58%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

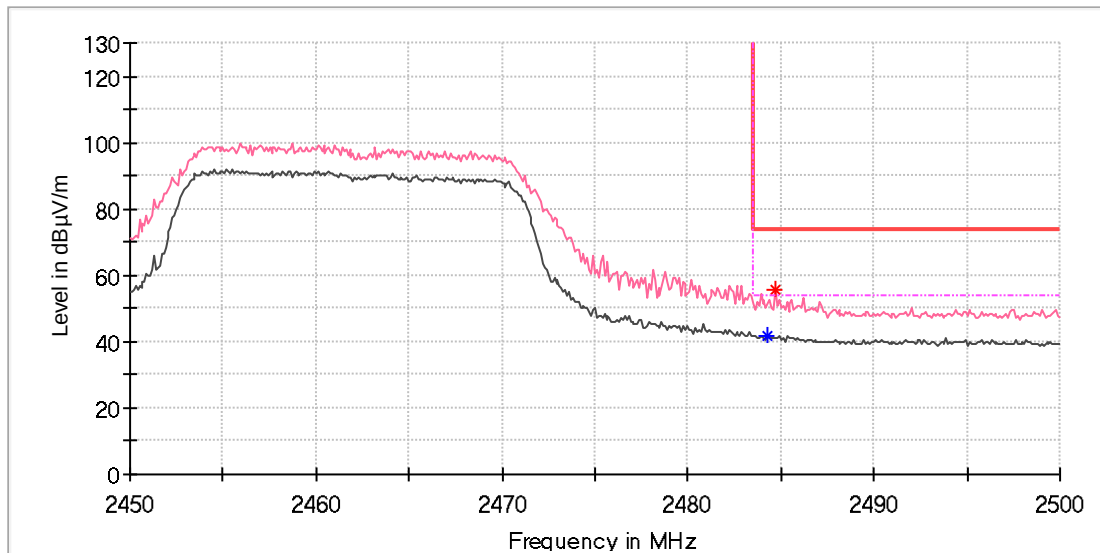
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.500000	---	45.89	54.00	8.11	100.0	H	235.0	7.4
2483.700000	61.93	---	74.00	12.07	100.0	H	145.0	7.4

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_11n20_Ch11
Order No/Sample No:	168397766/A003376067-003
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)
2484.300000	---	41.88	54.00	12.12	100.0	V	332.0	7.4
2484.700000	55.36	---	74.00	18.64	100.0	V	332.0	7.4

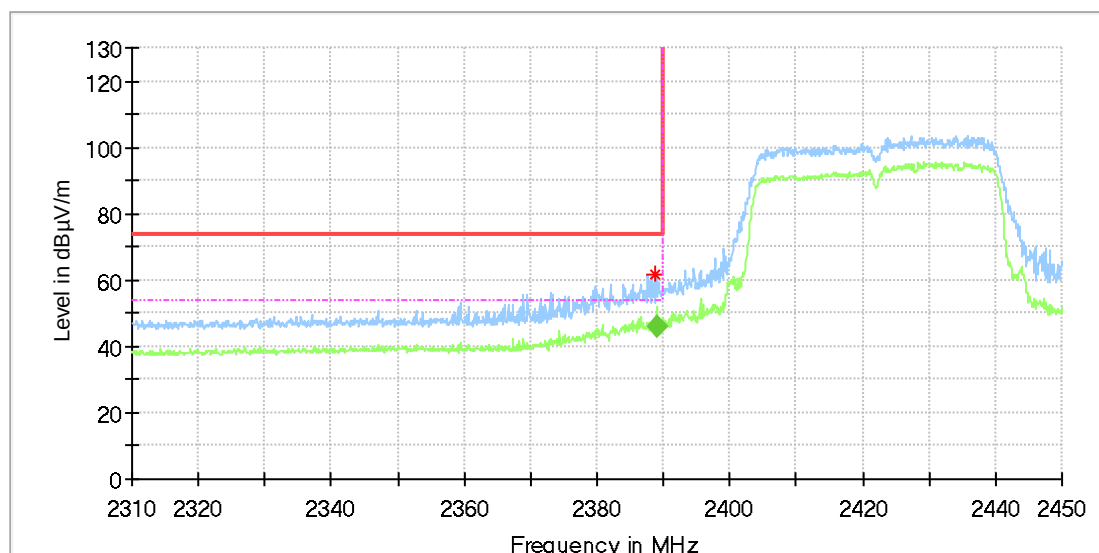
Final Result

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/A003376067-003
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

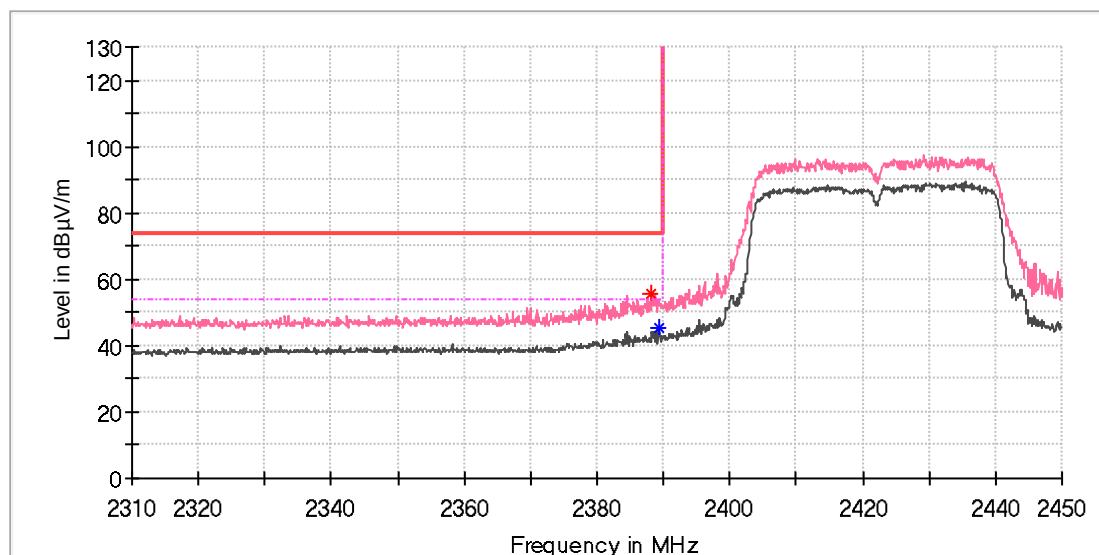
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2388.800000	61.77	---	74.00	12.23	100.0	H	130.0	7.0

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.030500	45.88	54.00	8.12	100.0	H	135.0	7.0

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	S81USP
Test Mode:	WIFI 2.4G_11n40_Ch3
Order No/Sample No:	168397766/A003376067-003
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

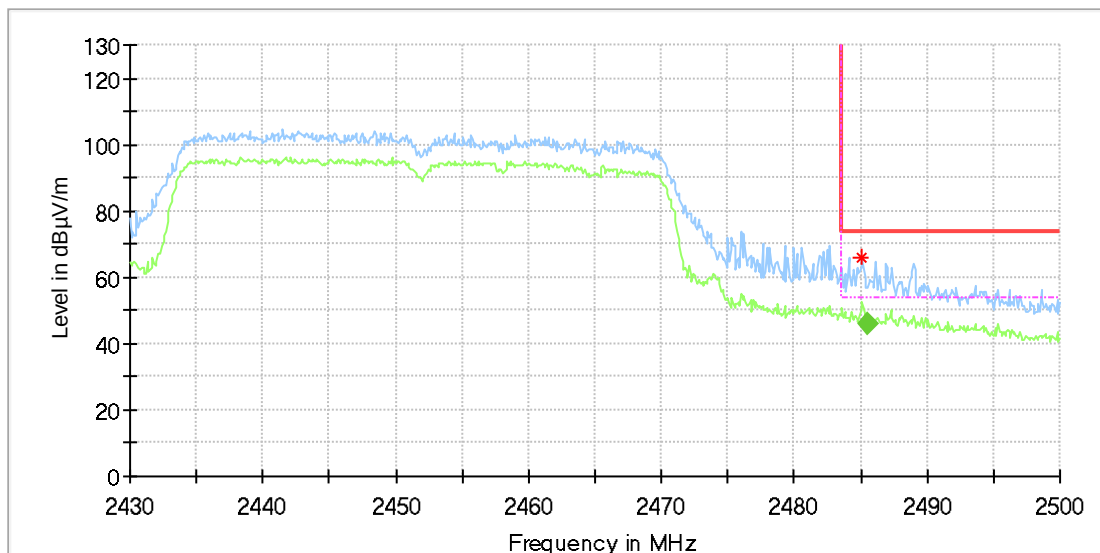
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2388.200000	55.84	---	74.00	18.16	100.0	V	335.0	7.0
2389.300000	---	45.11	54.00	8.89	100.0	V	320.0	7.0

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/A003376067-003
Test Voltage: Battery
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

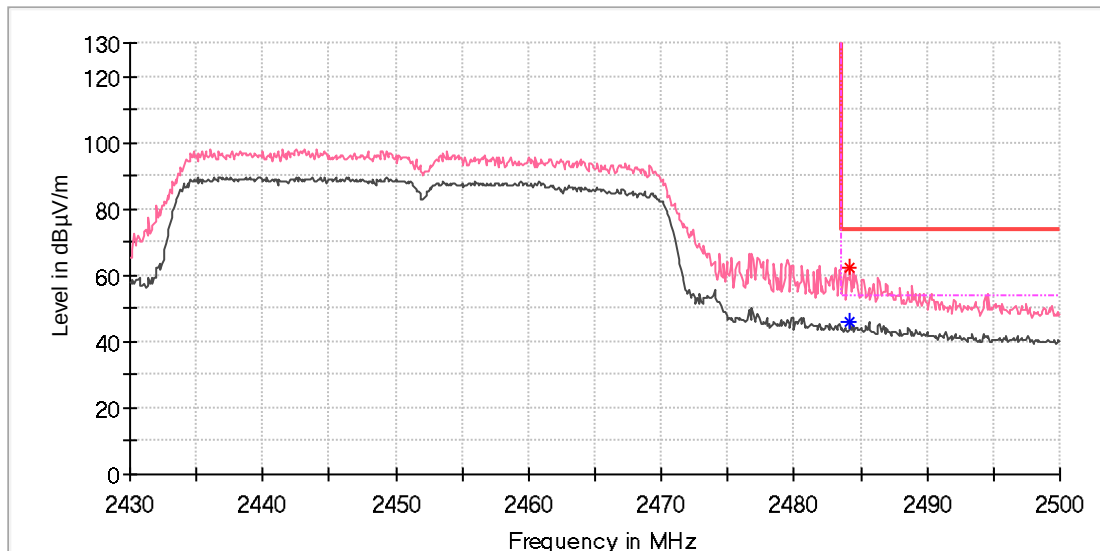
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2485.100000	65.72	---	74.00	8.28	100.0	H	140.0	7.4

Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2485.472000	46.18	54.00	7.82	100.0	H	135.0	7.4

EUT Information

EUT Name: Robotic Vacuum Cleaner
Model: S81USP
Test Mode: WIFI 2.4G_11n40_Ch9
Order No/Sample No: 168397766/A003376067-003
Test Voltage: Battery
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

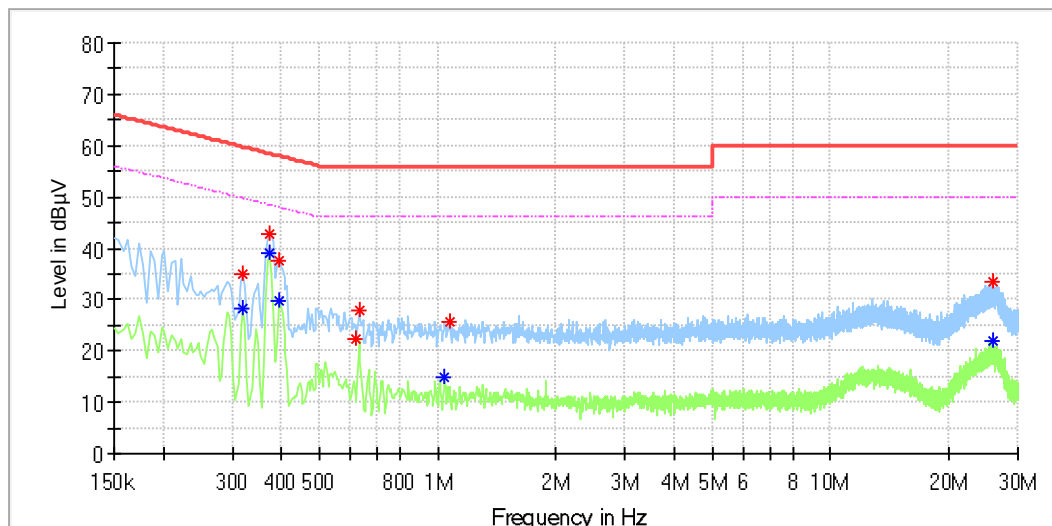
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.200000	---	46.08	54.00	7.92	100.0	V	94.0	7.4
2484.200000	62.04	---	74.00	11.96	100.0	V	94.0	7.4

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:	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

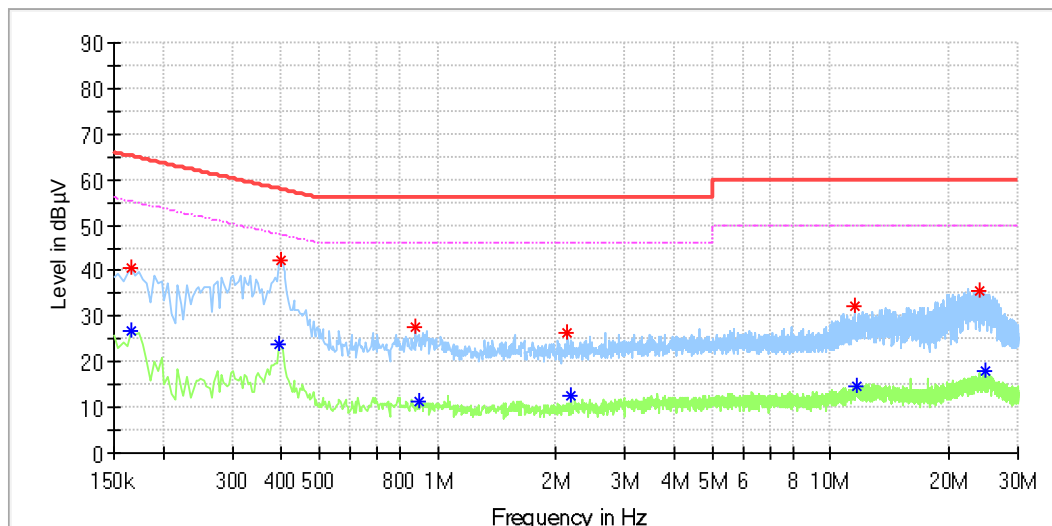
Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.318000	---	28.34	49.76	21.42	N	9.8
0.318000	34.90	---	59.76	24.86	N	9.8
0.374000	---	38.99	48.41	9.42	N	9.8
0.374000	42.88	---	58.41	15.54	N	9.8
0.394000	---	29.79	47.98	18.19	N	9.8
0.394000	37.60	---	57.98	20.38	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)
100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	100.0

EUT Information

EUT Name:	Robotic Vacuum Cleaner
Model:	S81USP
Test Mode:	WIFI Link+Charging
Order No/Sample No:	168416013/A003417510-001
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)
0.166000	40.54	---	65.16	24.62	N	9.8
0.166000	---	26.60	55.16	28.56	N	9.8
0.394000	---	23.89	47.98	24.09	N	9.8
0.398000	42.15	---	57.90	15.75	N	9.8
0.878000	27.54	---	56.00	28.46	N	9.8
0.894000	---	11.40	46.00	34.60	N	9.8
2.142000	26.42	---	56.00	29.58	N	9.9
2.190000	---	12.49	46.00	33.51	N	9.9
11.506000	32.35	---	60.00	27.65	N	10.1
11.650000	---	14.73	50.00	35.27	N	10.1
23.854000	35.77	---	60.00	24.23	N	10.3
24.906000	---	18.00	50.00	32.00	N	10.3

Final Result

[illegible]