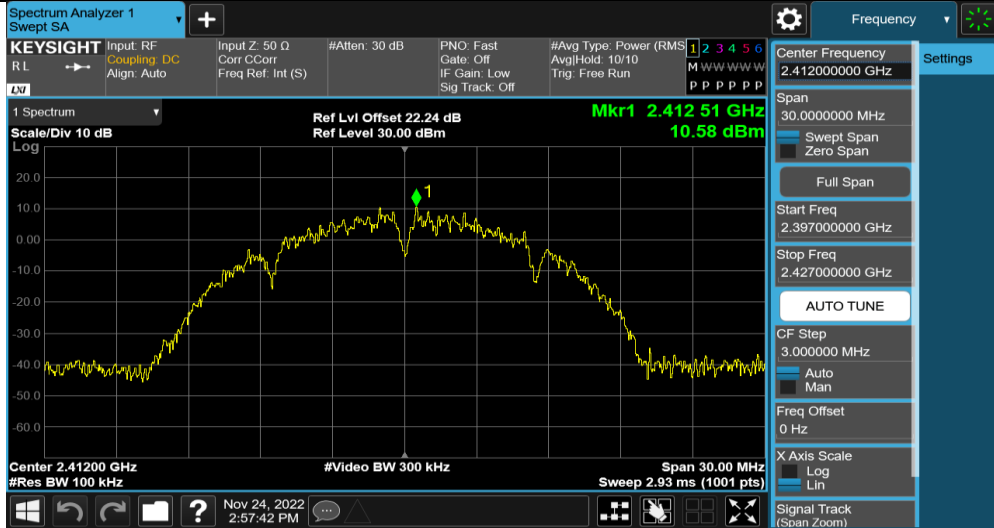


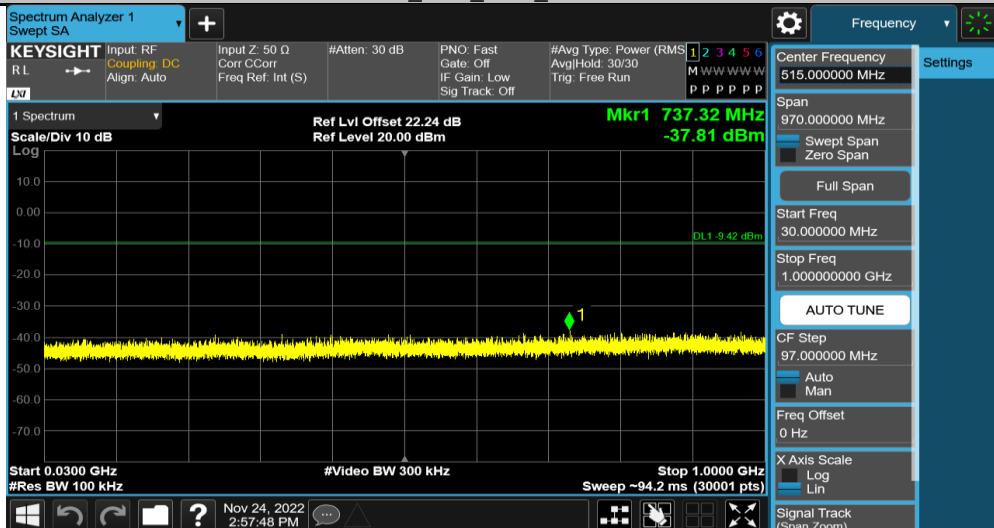
Conducted Spurious Emission

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

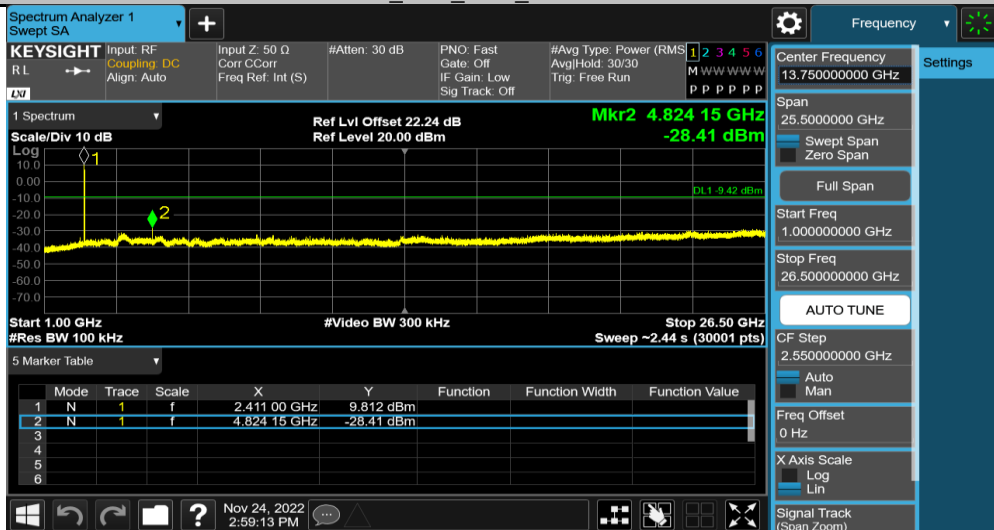
11B_Ant1_2412_0-Reference



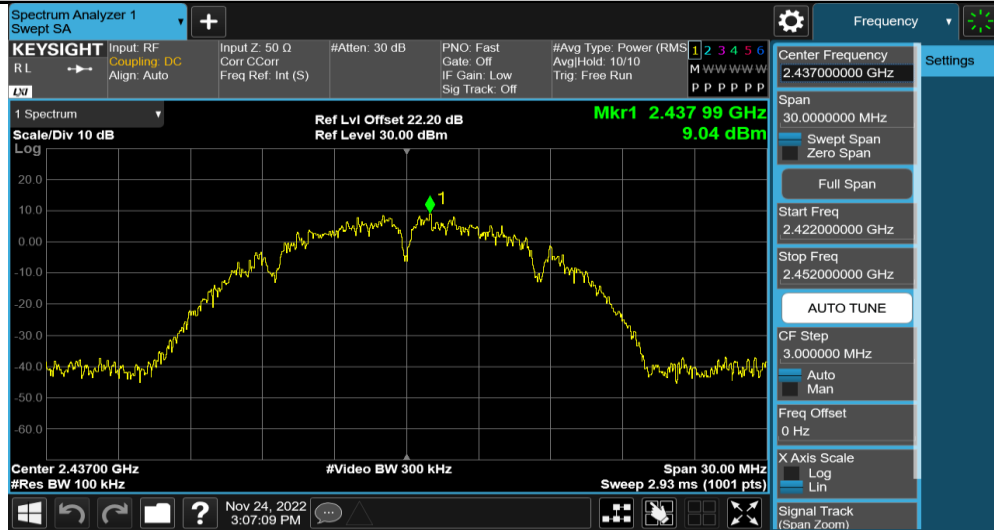
11B_Ant1_2412_30-1000



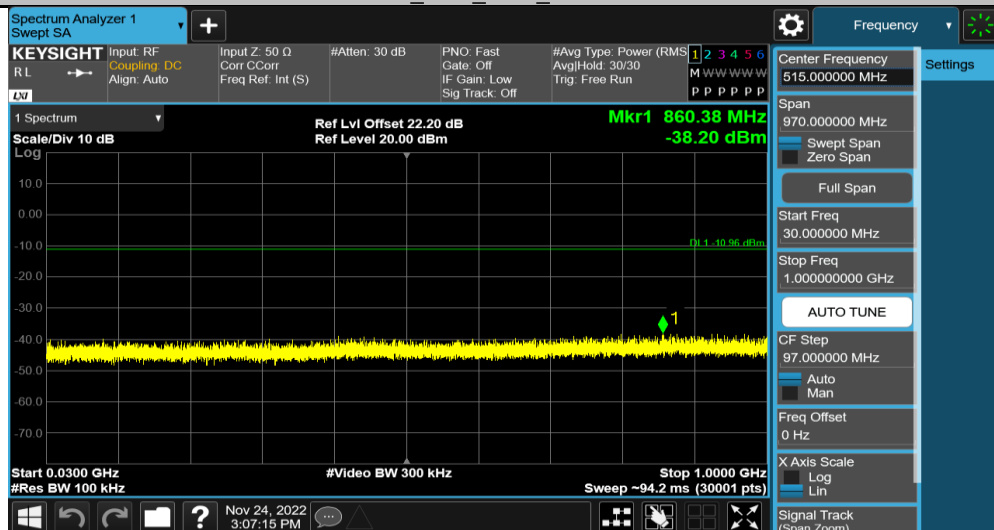
11B_Ant1_2412_1000-26500



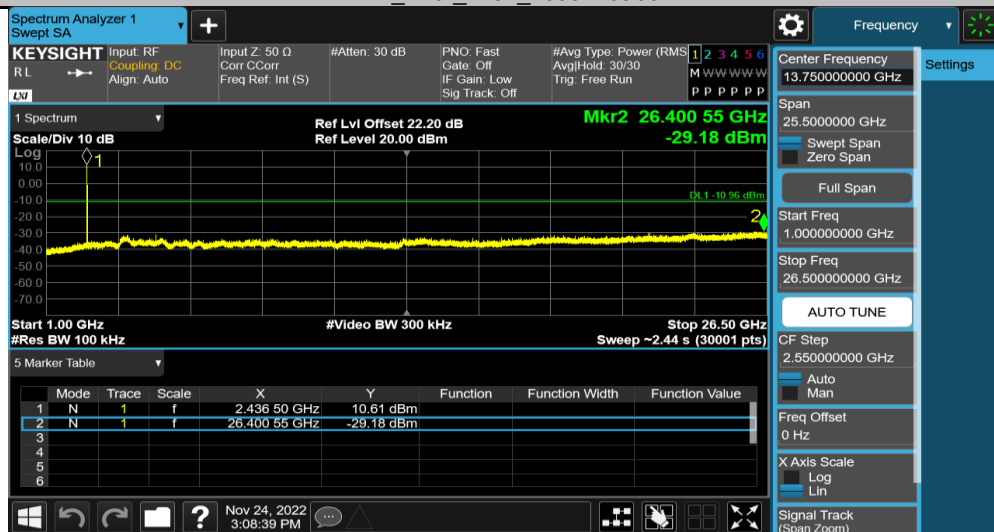
11B_Ant1_2437_0-Reference



11B_Ant1_2437_30-1000



11B_Ant1_2437_1000-26500



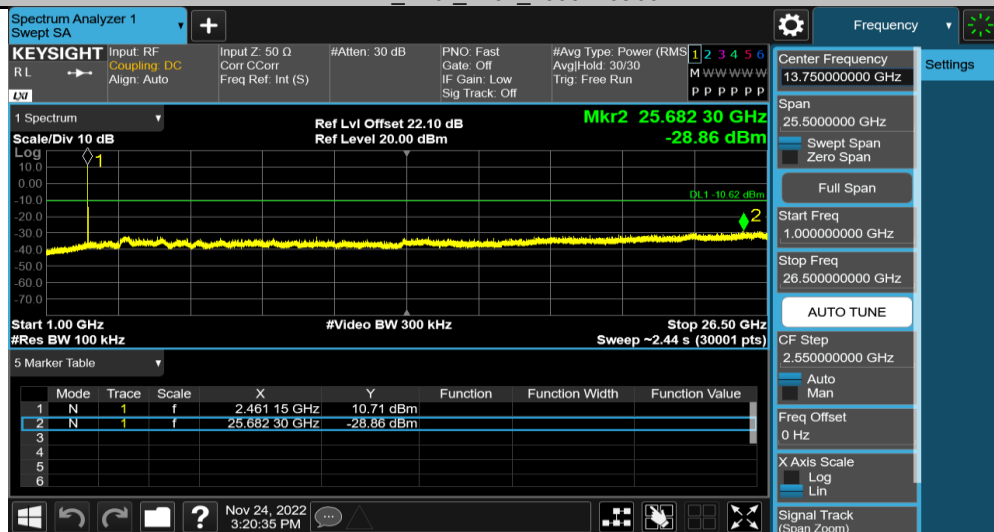
11B_Ant1_2462_0-Reference



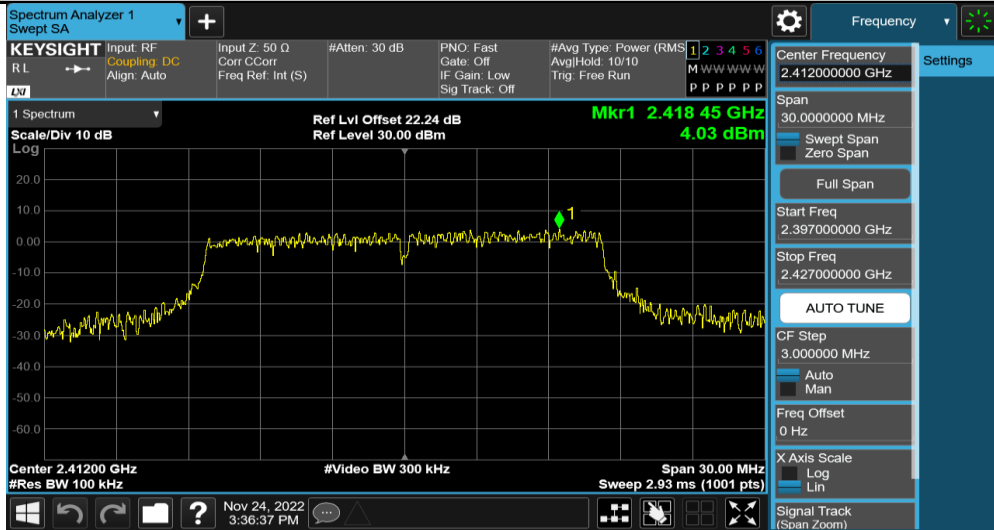
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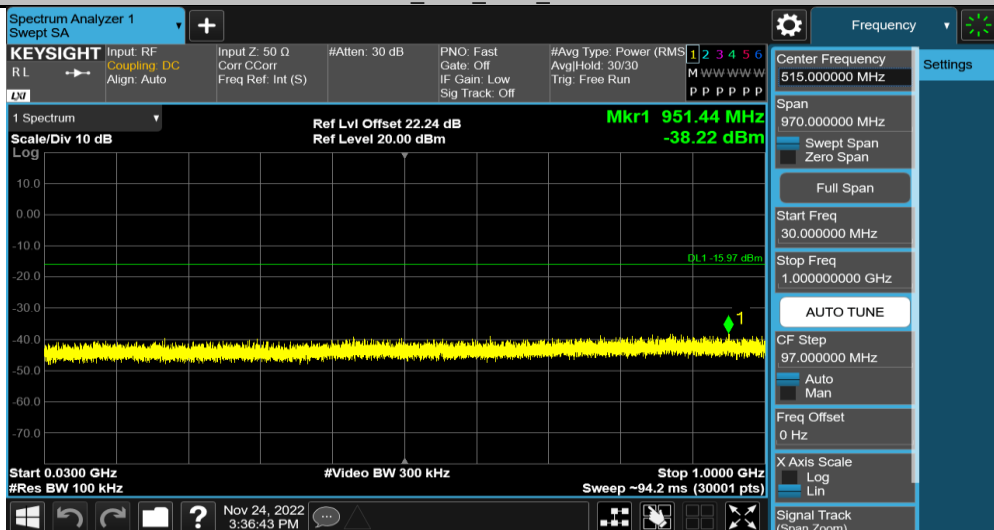
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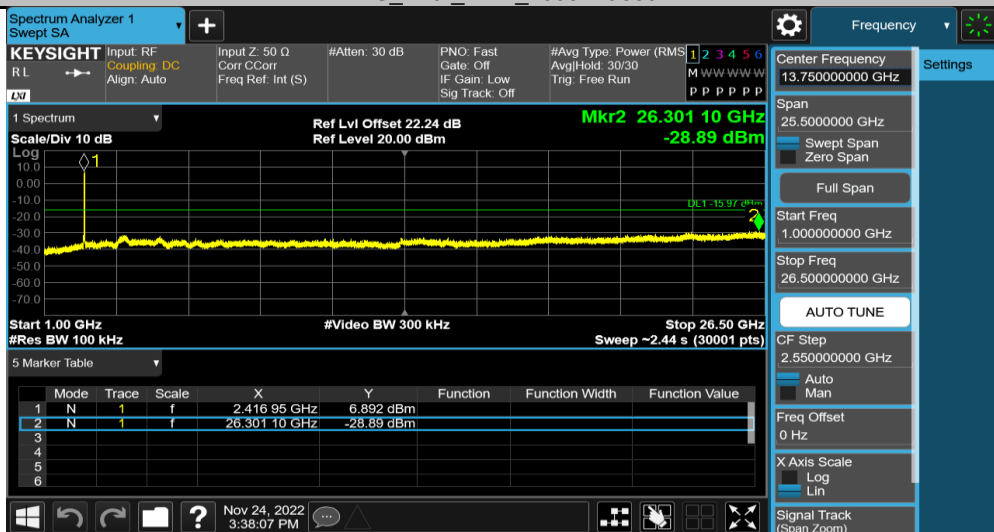
11G_Ant1_2412_0-Reference



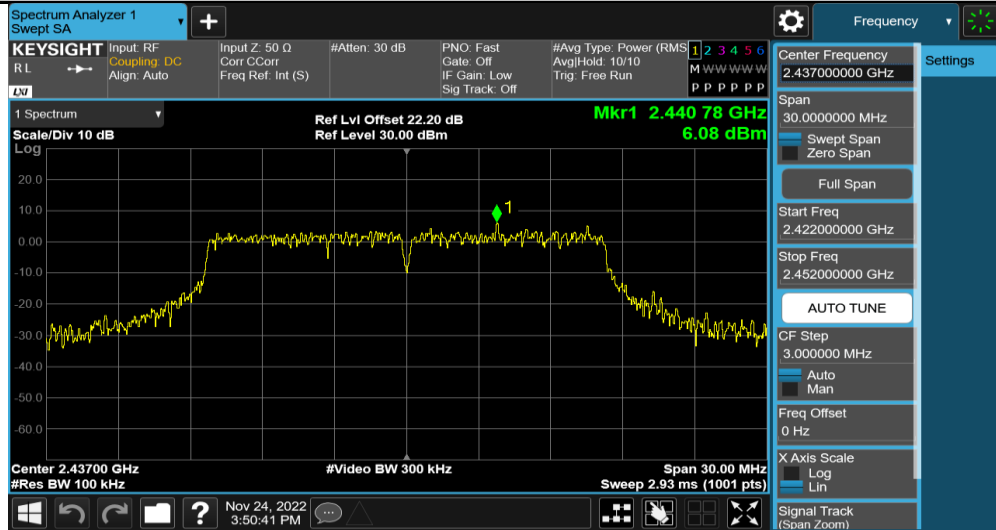
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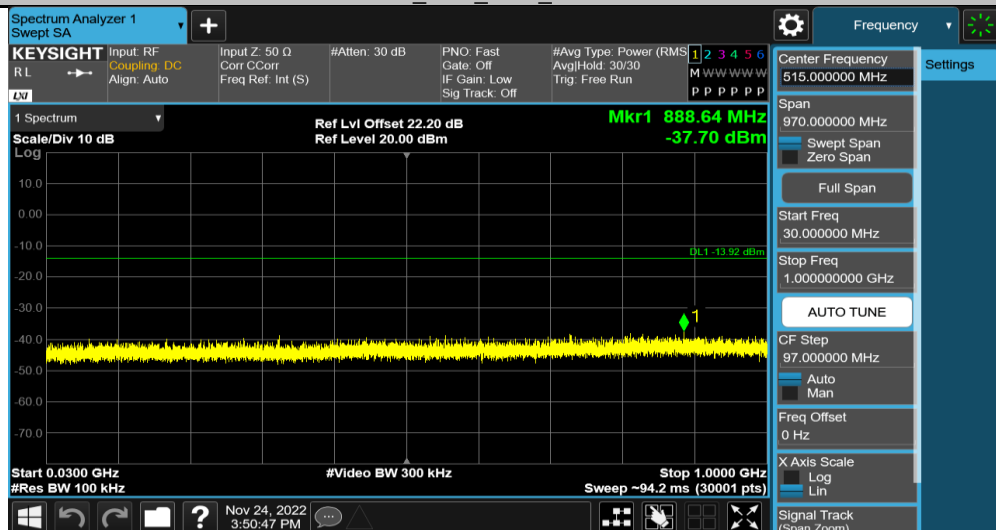
11G_Ant1_2412_1000-26500



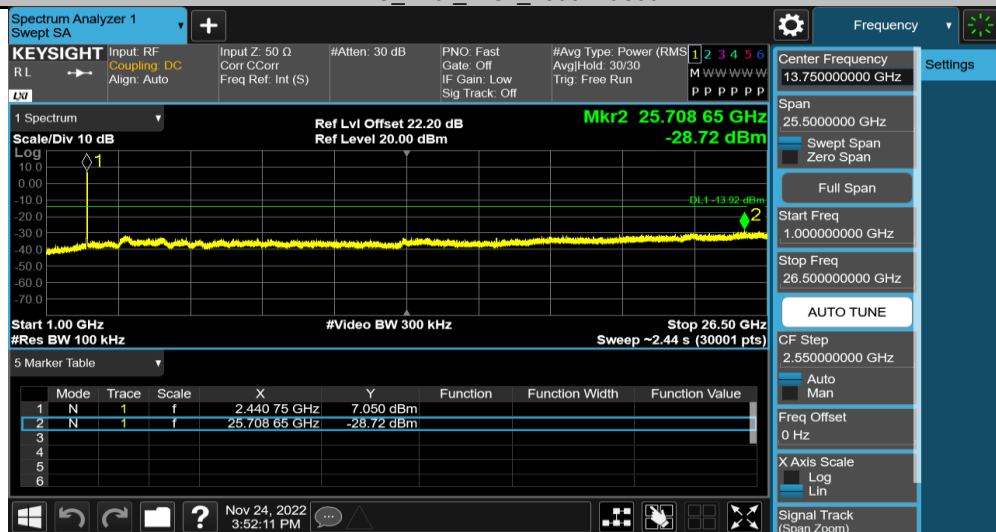
11G_Ant1_2437_0-Reference



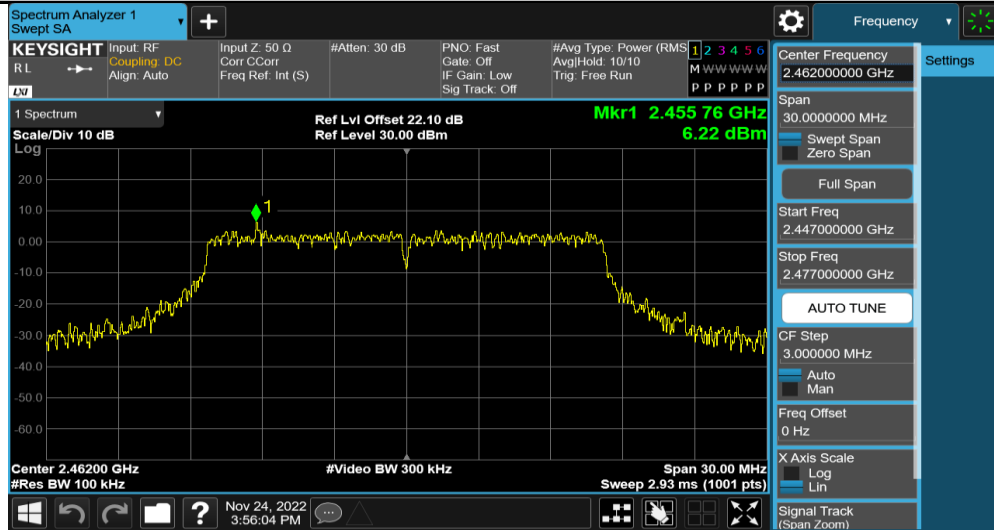
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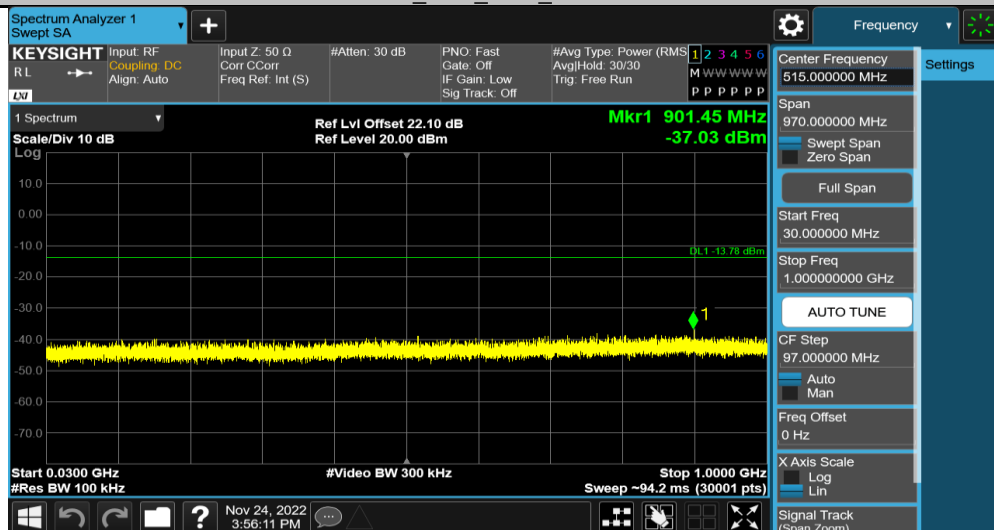
11G_Ant1_2437_1000-26500



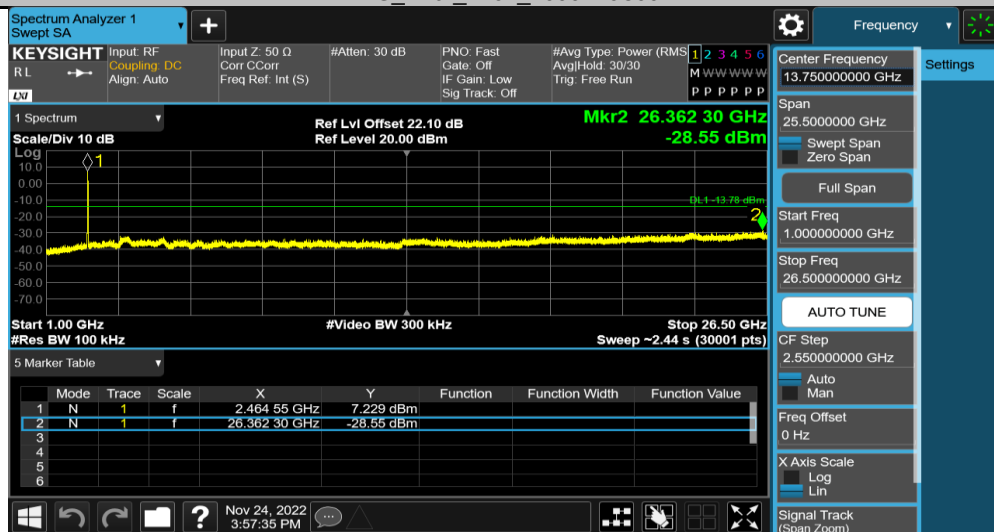
11G_Ant1_2462_0-Reference

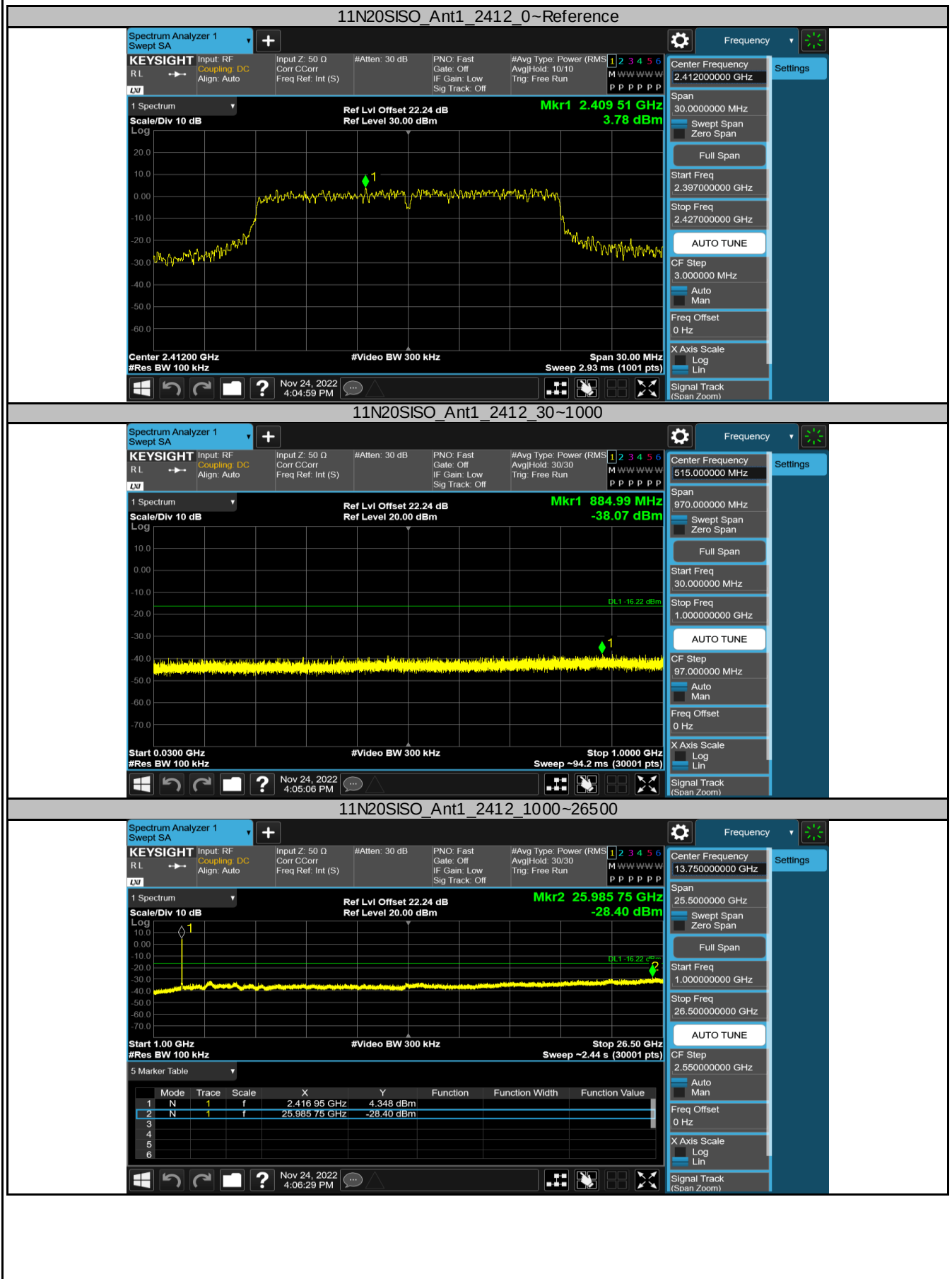


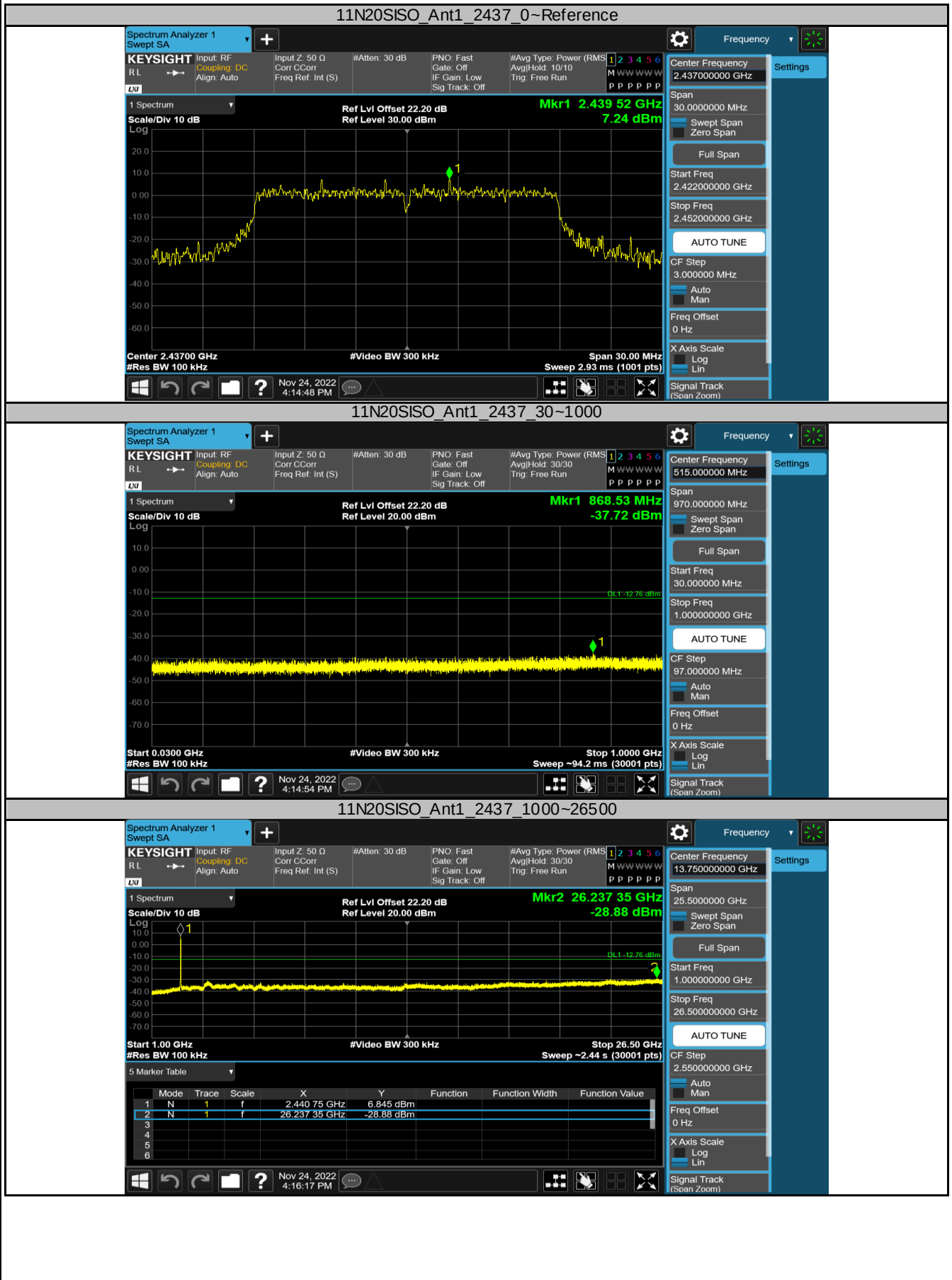
11G_Ant1_2462_30-1000

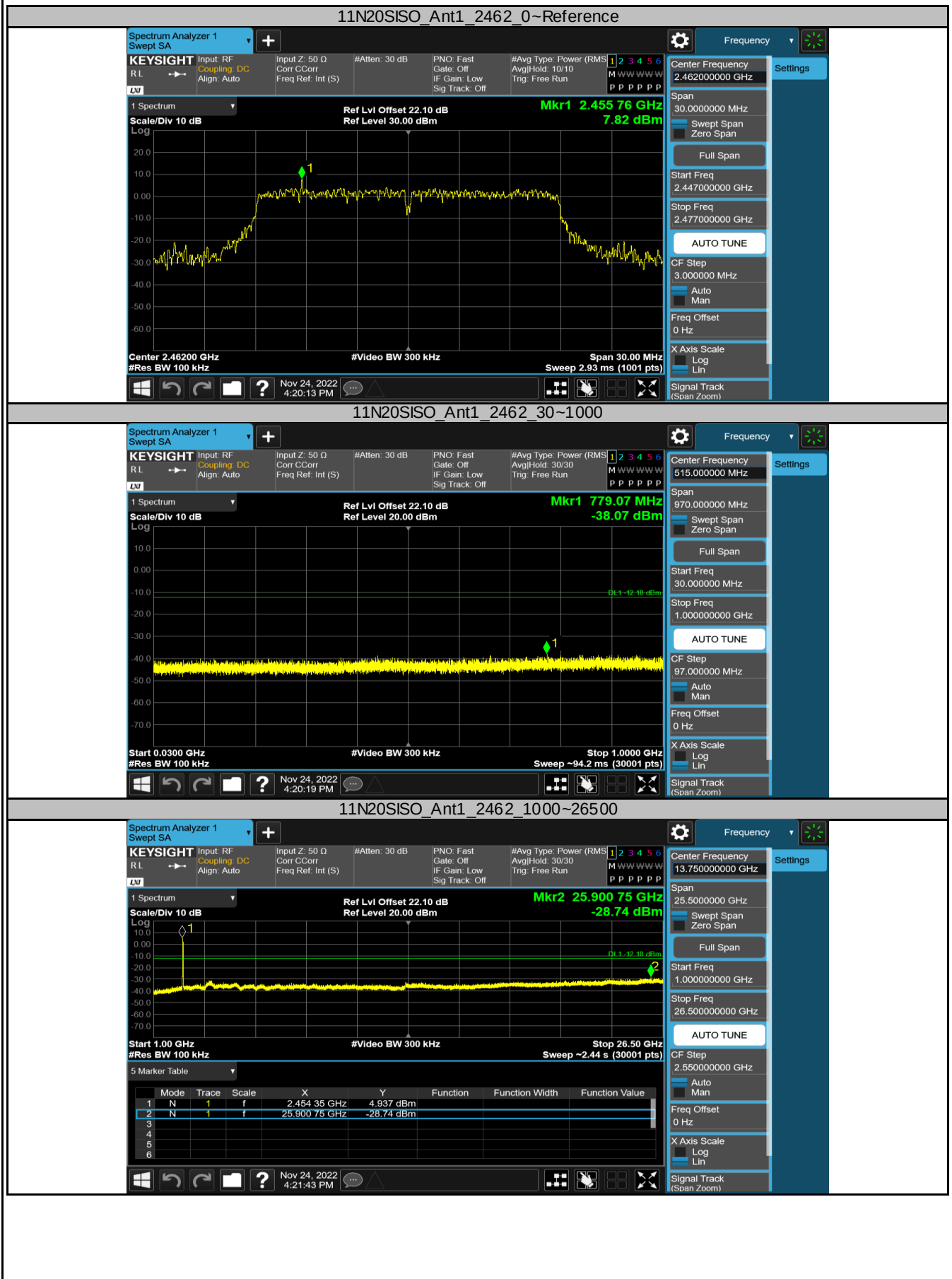


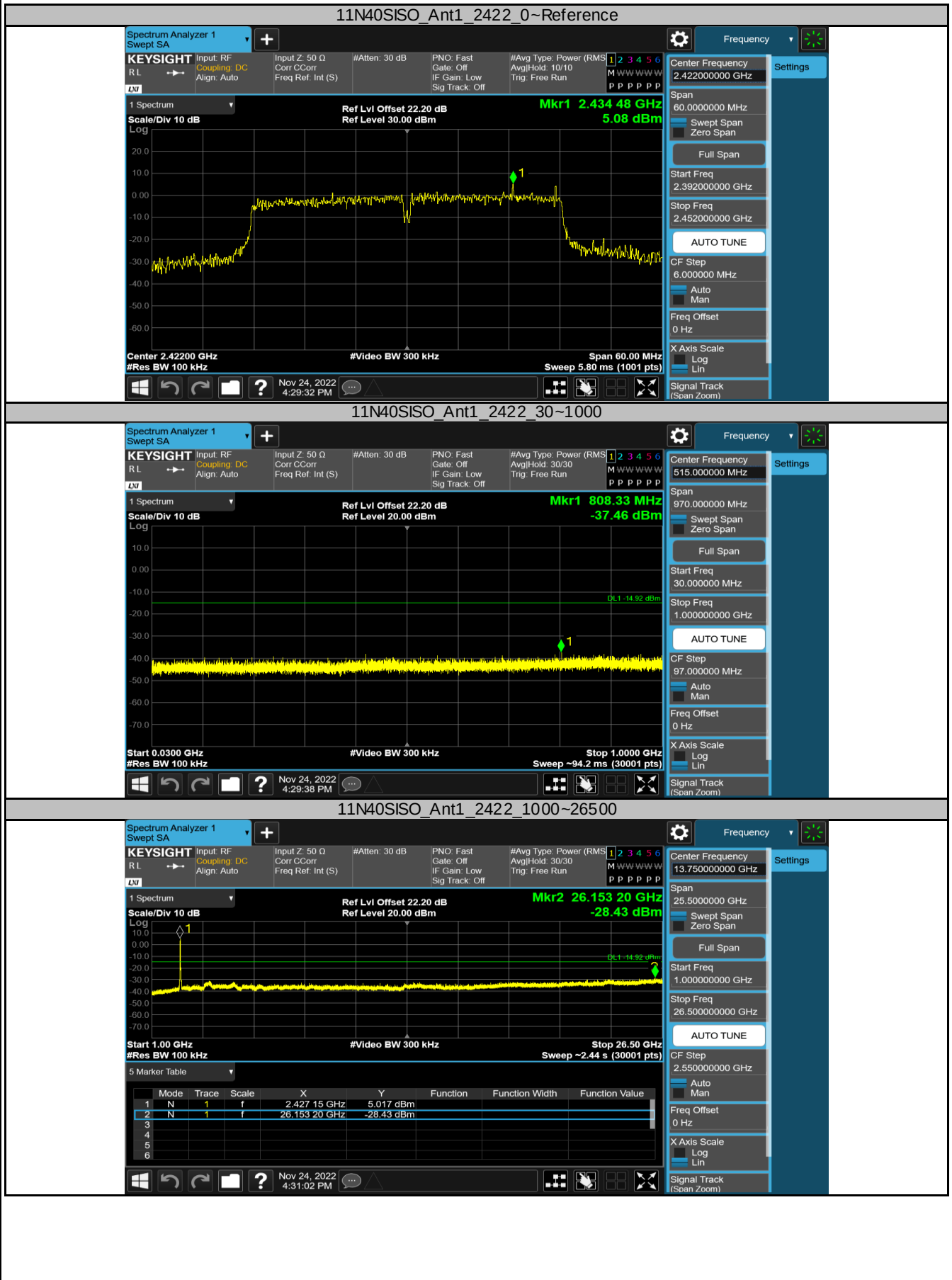
11G_Ant1_2462_1000-26500

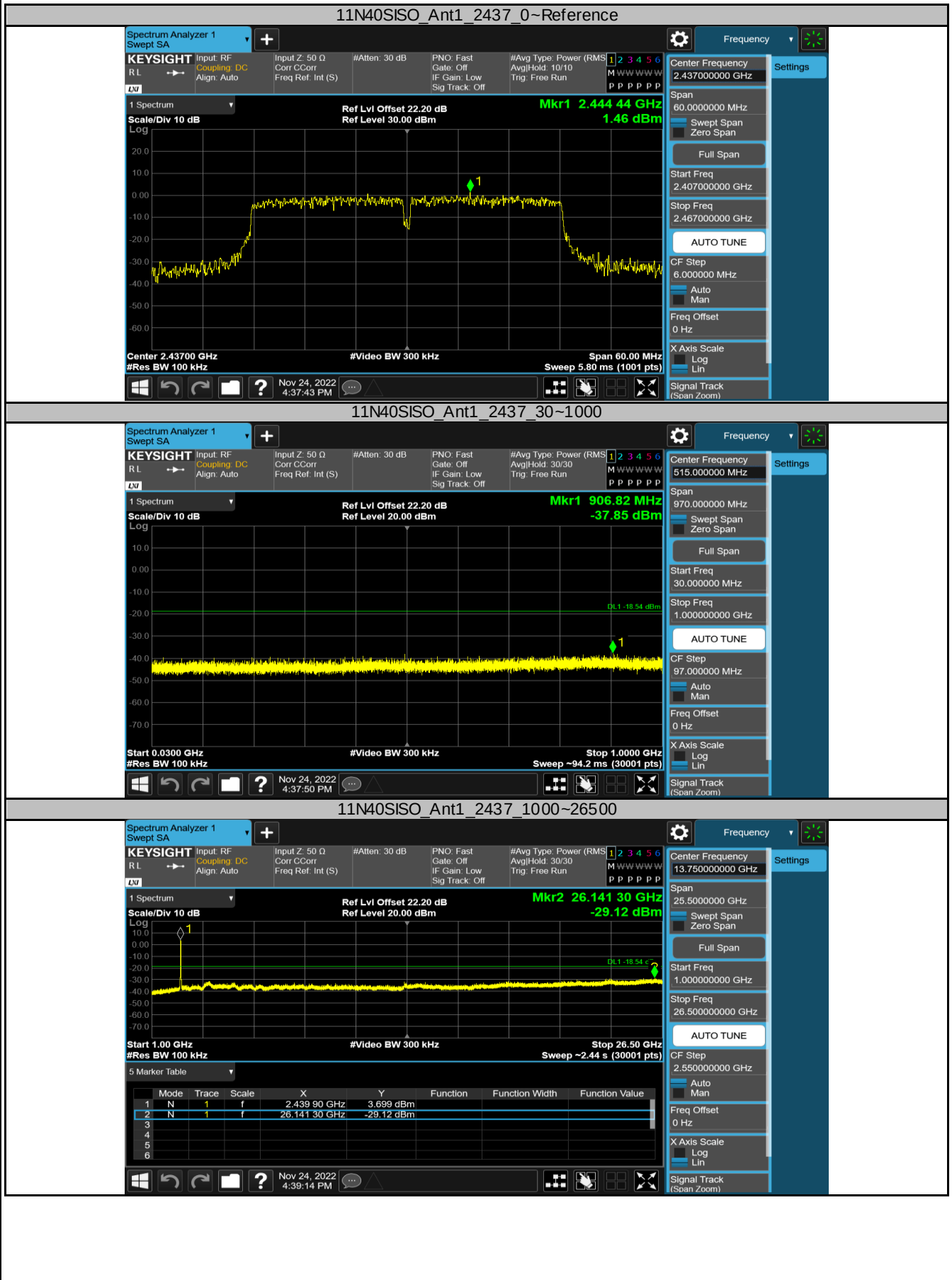


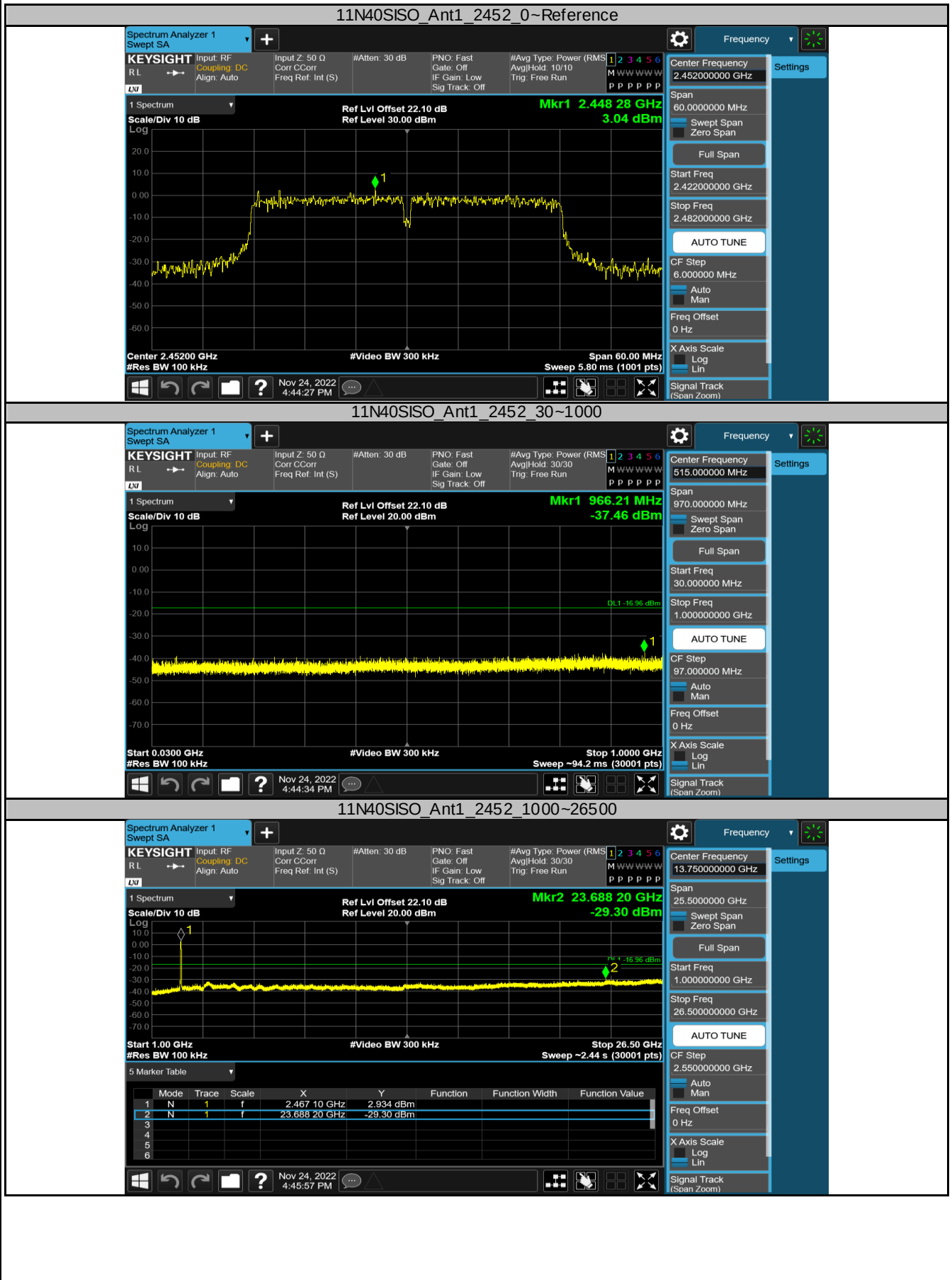












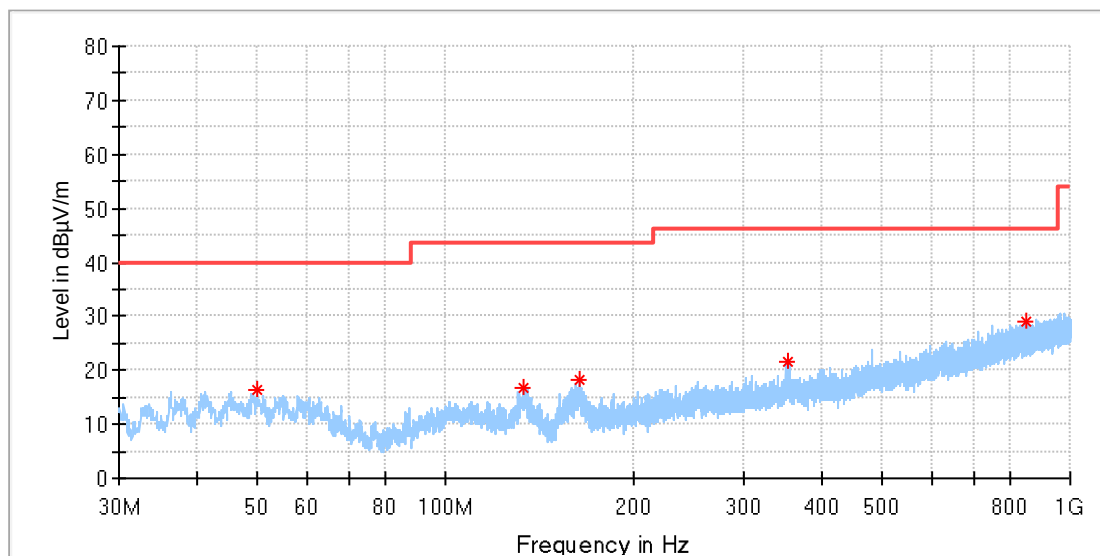
Appendix B.5: Test Results of Radiated Spurious Emissions

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)

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

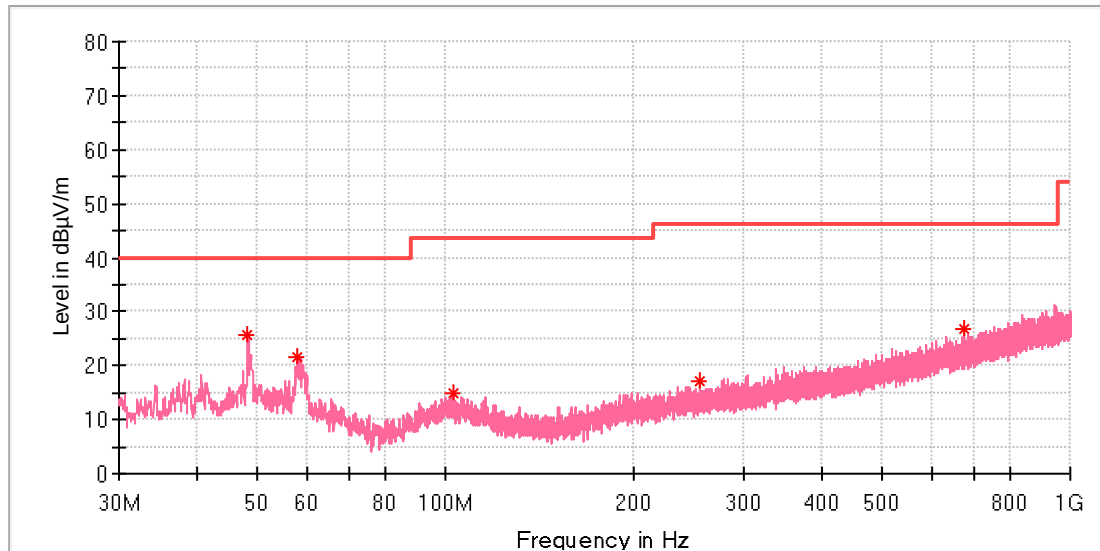
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.885000	16.21	40.00	23.79	100.0	H	75.0	-18.3
133.596000	16.85	43.50	26.65	100.0	H	61.0	-22.0
164.151000	18.16	43.50	25.34	100.0	H	274.0	-21.5
351.894500	21.76	46.00	24.24	100.0	H	206.0	-14.7
848.777000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

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

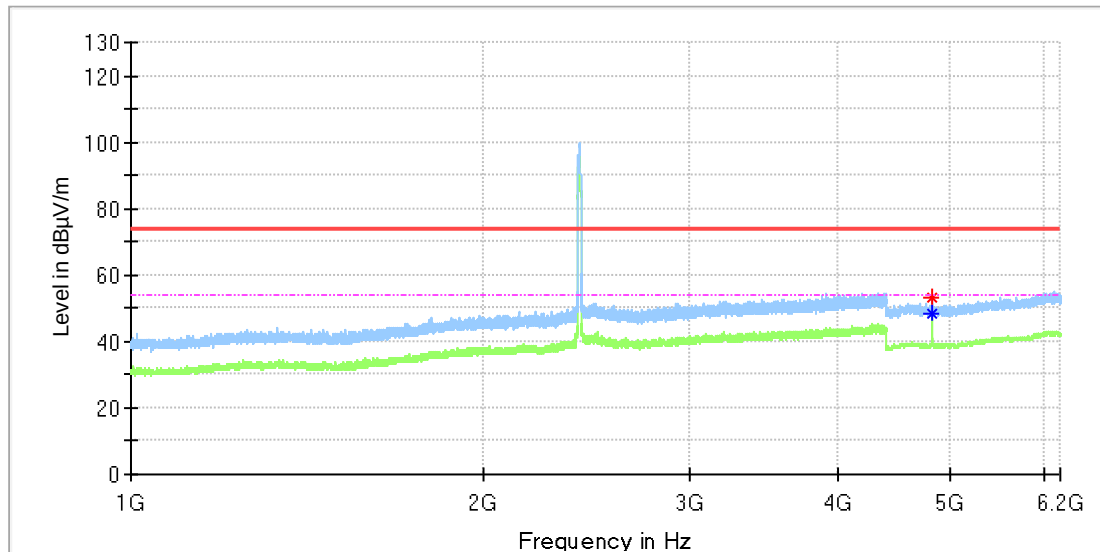
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

1GHz - 18GHz

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

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

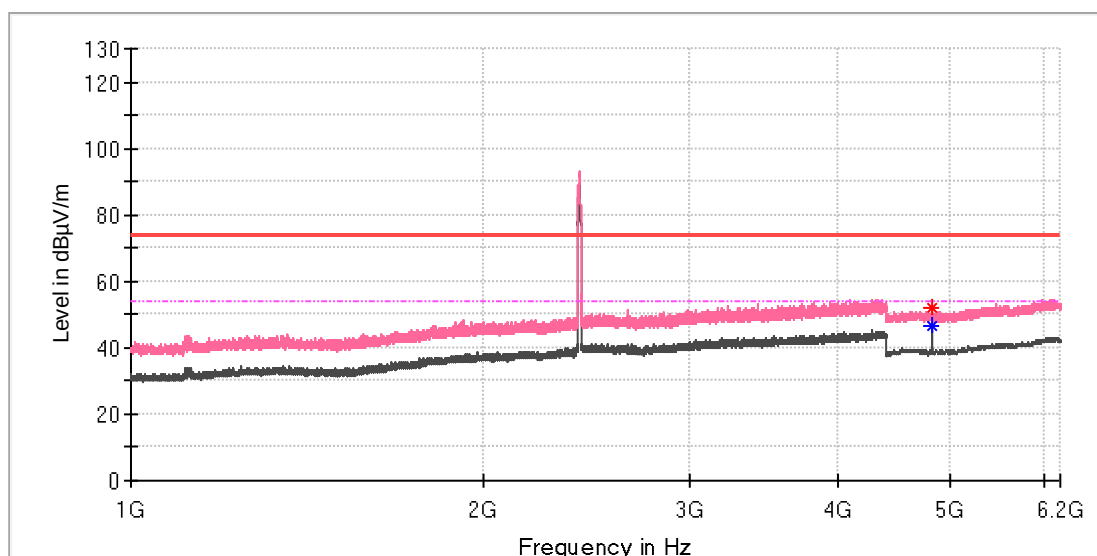
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4824.000000	---	48.12	54.00	5.88	100.0	H	219.0	11.8
4824.000000	53.46	---	74.00	20.54	100.0	H	219.0	11.8

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

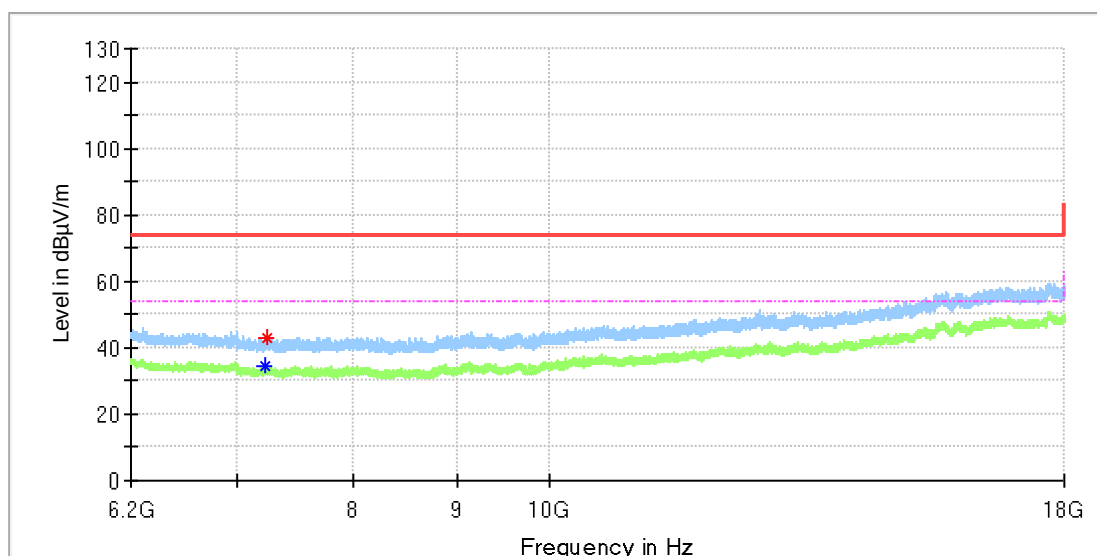
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4824.000000	52.11	---	74.00	21.89	100.0	V	124.0	11.8
4824.000000	---	46.64	54.00	7.36	100.0	V	124.0	11.8

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

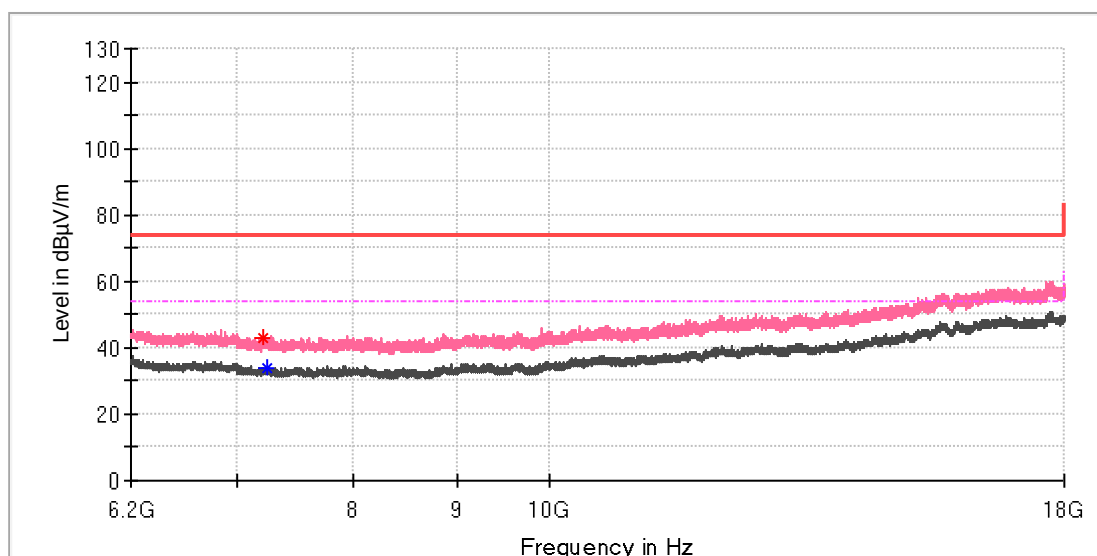
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7220.700000	---	34.18	54.00	19.82	100.0	H	0.0	8.7
7237.416667	42.84	---	74.00	31.16	100.0	H	132.0	8.6

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)
---	---	---	---	---		---	---