

Appendix B: Test Results of Wi-Fi operation for U-NII-1 Band

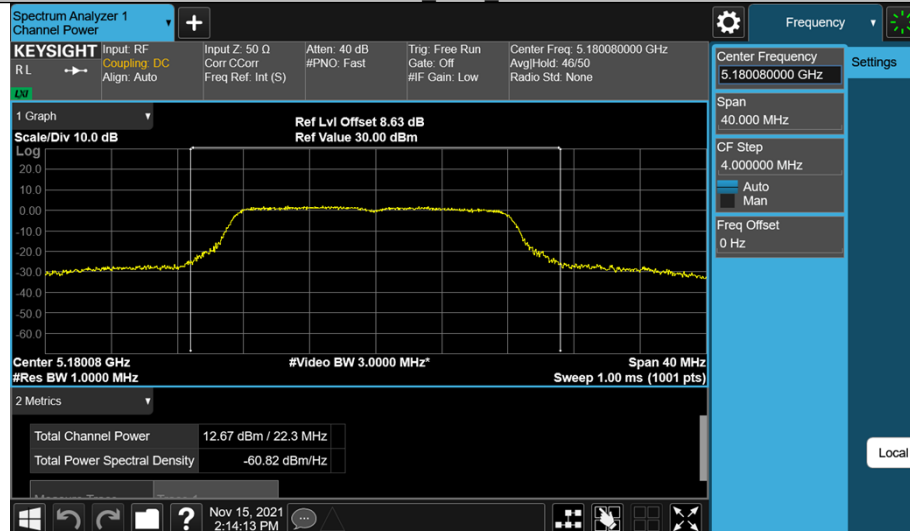
APPENDIX B: TEST RESULTS OF WI-FI OPERATION FOR U-NII-1 BAND	1
APPENDIX B.1: TEST RESULTS OF MAXIMUM CONDUCTED OUTPUT POWER.....	2
APPENDIX B.2: TEST RESULTS OF CONDUCTED POWER SPECTRAL DENSITY.....	5
APPENDIX B.3: TEST RESULTS OF FREQUENCY STABILITY	8
APPENDIX B.4: TEST RESULTS OF 26DB BANDWIDTH	9
APPENDIX B.5: TEST RESULTS OF 99% BANDWIDTH	12
APPENDIX B.6: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS	15
30MHz - 1GHz (Worst case).....	15
1GHz - 18GHz	17
APPENDIX B.7: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS.....	41
Wi-Fi 802.11 a mode.....	41
Wi-Fi 802.11 n(HT20) mode.....	45

Appendix B.1: Test Results of Maximum Conducted Output Power

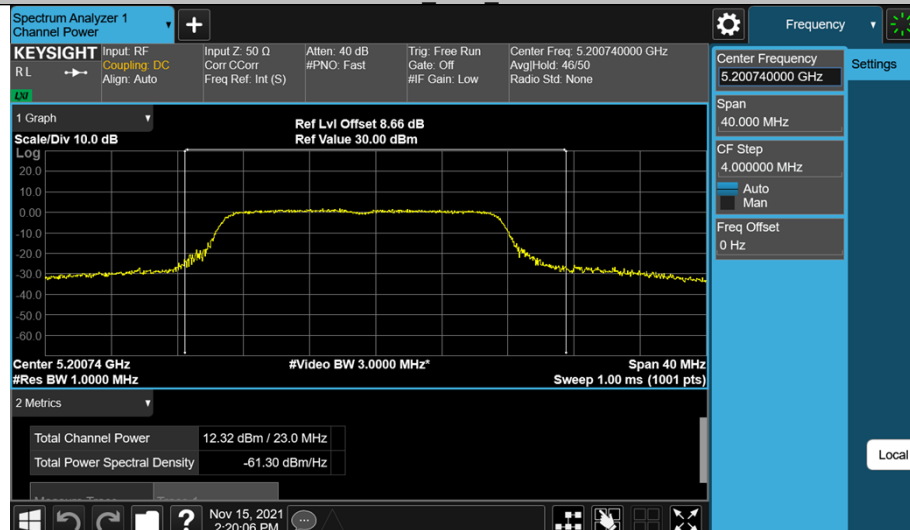
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	12.66	≤23.98	PASS
		5200	12.34	≤23.98	PASS
		5240	12.09	≤23.98	PASS
11N20SISO	Ant1	5180	13.35	≤23.98	PASS
		5200	12.75	≤23.98	PASS
		5240	12.57	≤23.98	PASS

Note: The Duty Cycle Factor is compensated in the graph.

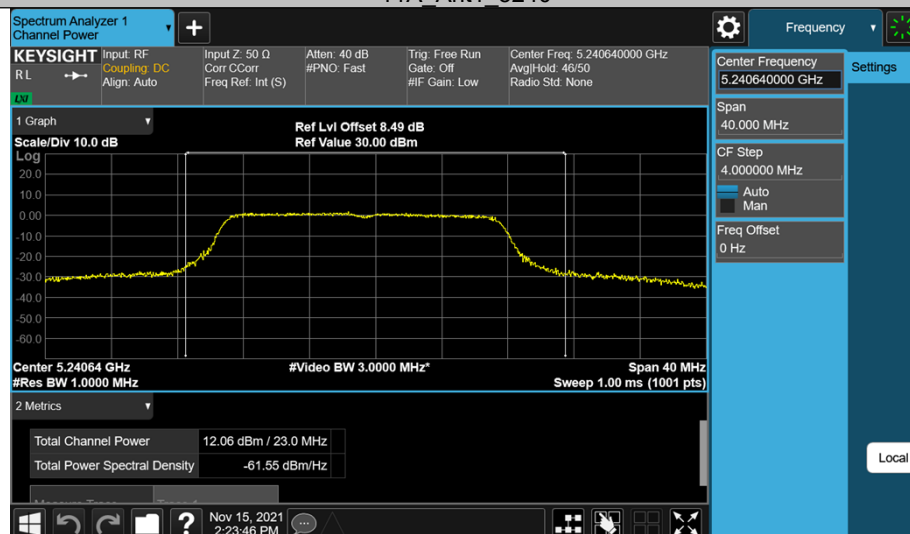
11A_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240





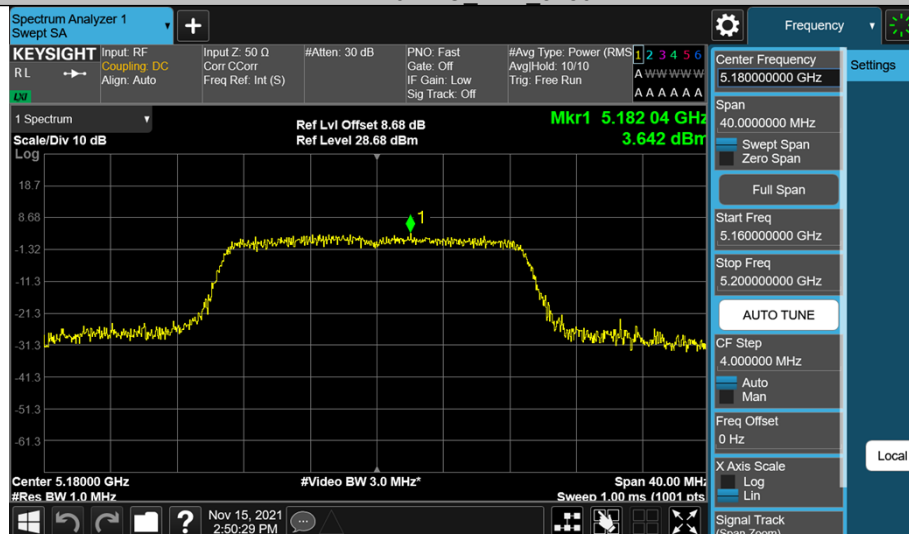
Appendix B.2: Test Results of Conducted Power Spectral Density

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	2.7	≤11	PASS
		5200	2.94	≤11	PASS
		5240	2.25	≤11	PASS
11N20SISO	Ant1	5180	3.64	≤11	PASS
		5200	2.57	≤11	PASS
		5240	3.2	≤11	PASS

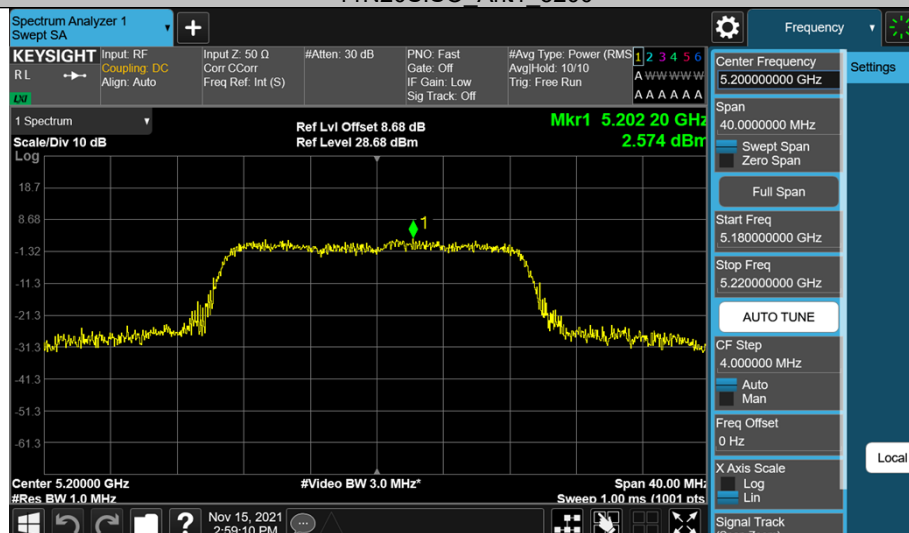
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.



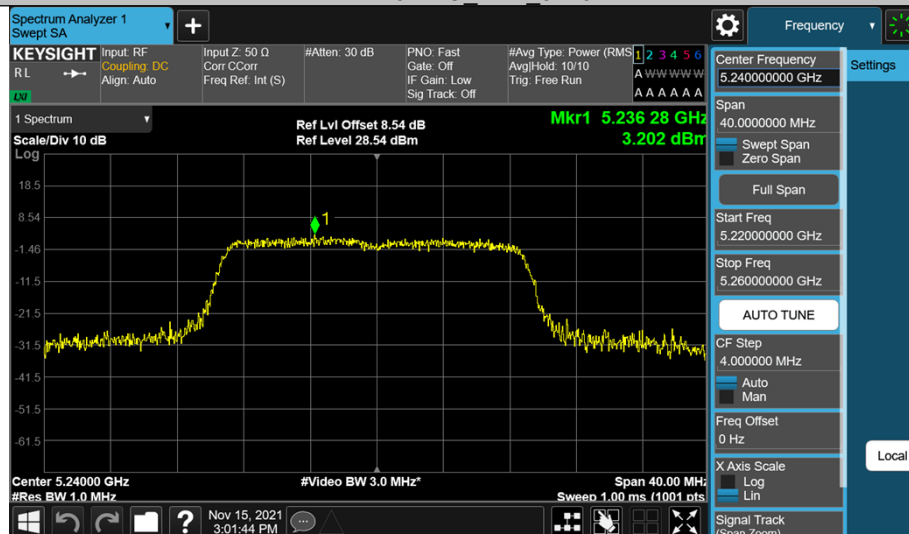
11N20SISO Ant1 5180



11N20SISO Ant1 5200



11N20SISO Ant1 5240



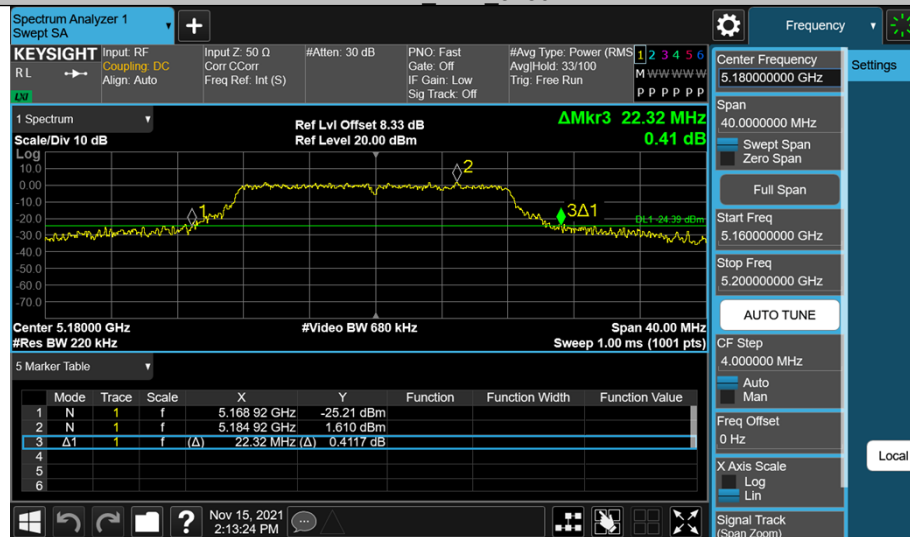
Appendix B.3: Test Results of Frequency Stability

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	9999	-90000	-17.374517	20	PASS
		5200	NV	9999	-90000	-17.307692	20	PASS
		5240	NV	9999	-91000	-17.366412	20	PASS
11N20SISO	Ant1	5180	NV	9999	-85000	-16.409266	20	PASS
		5200	NV	9999	-85000	-16.346154	20	PASS
		5240	NV	9999	-86000	-16.412214	20	PASS

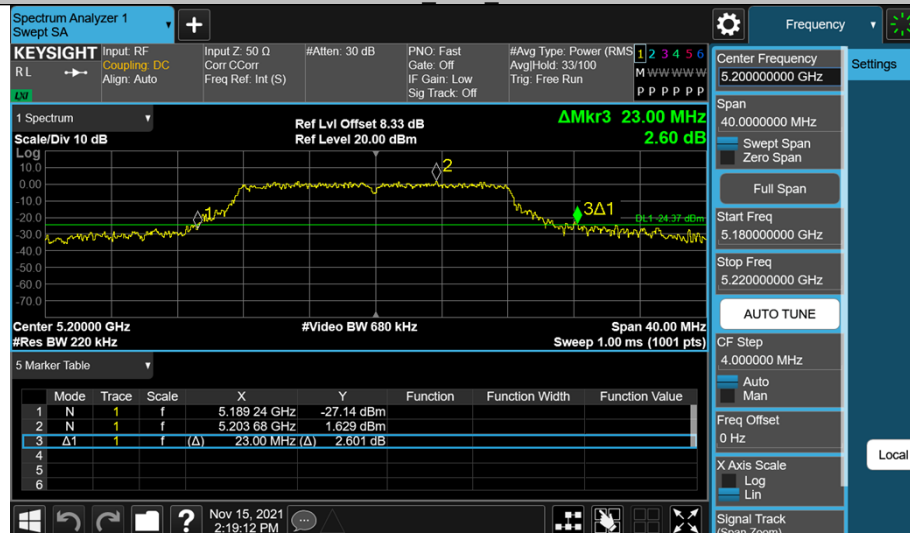
Appendix B.4: Test Results of 26dB Bandwidth

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	22.320	5168.920	5191.240	---	PASS
		5200	23.000	5189.240	5212.240	---	PASS
		5240	22.960	5229.160	5252.120	---	PASS
11N20SISO	Ant1	5180	23.320	5167.920	5191.240	---	PASS
		5200	21.440	5189.080	5210.520	---	PASS
		5240	24.120	5229.480	5253.600	---	PASS

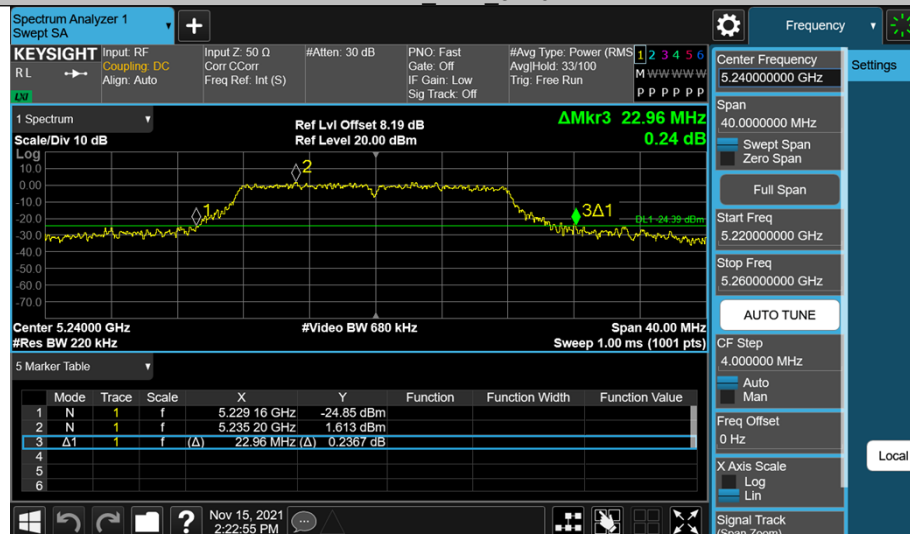
11A_Ant1_5180



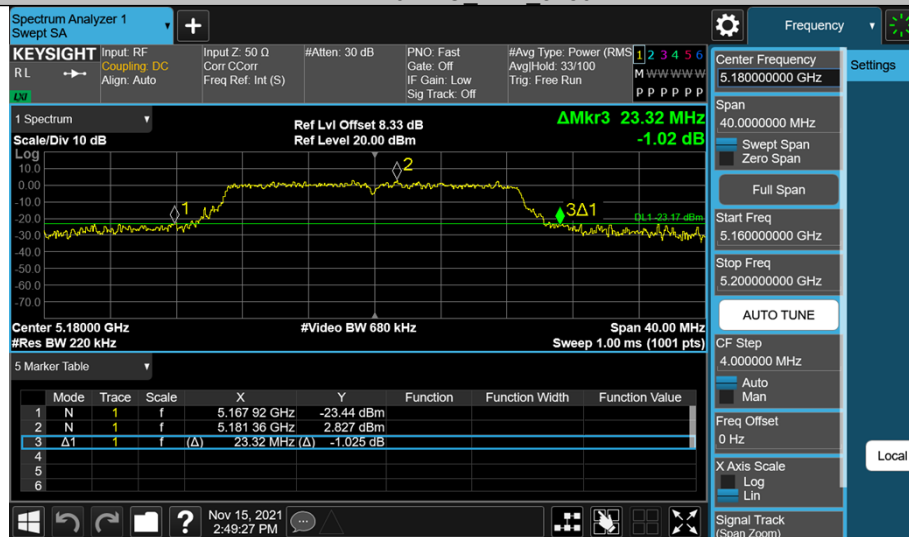
11A_Ant1_5200



11A_Ant1_5240



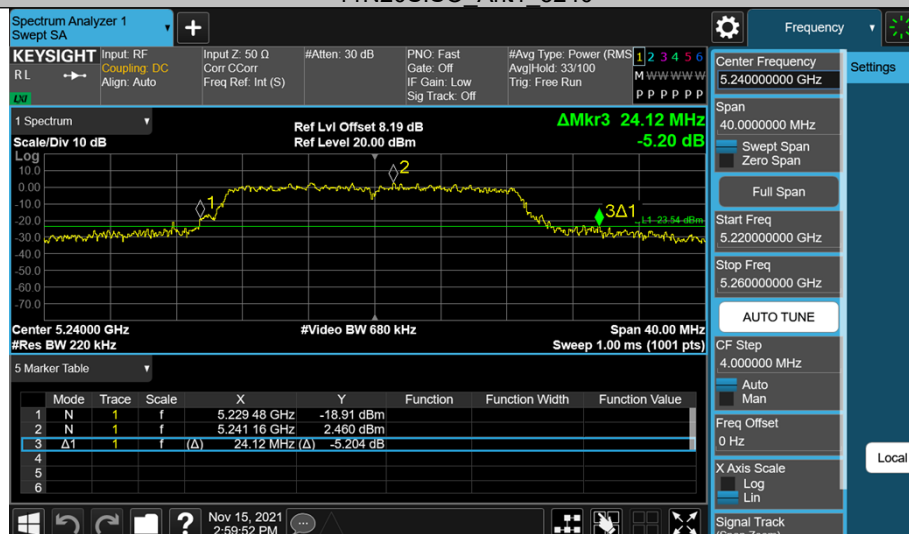
11N20SISO Ant1 5180



11N20SISO Ant1 5200



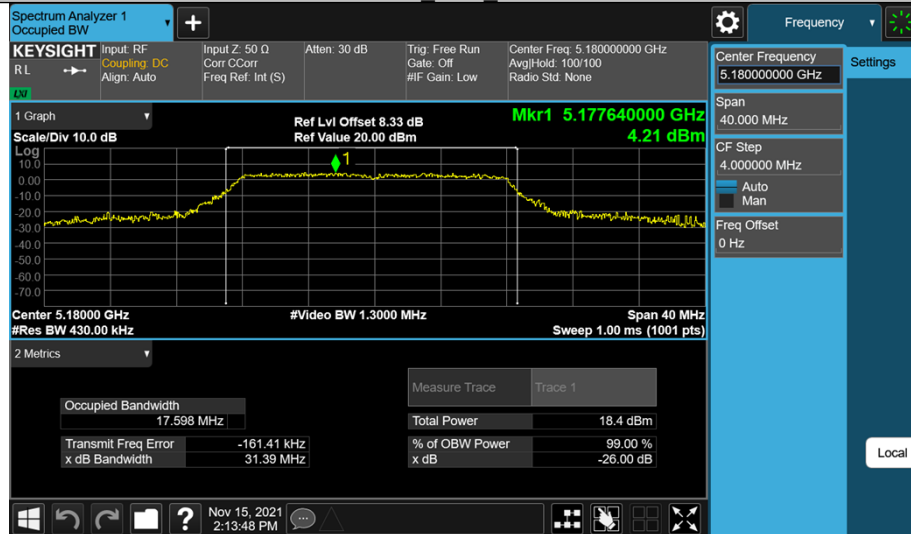
11N20SISO Ant1 5240



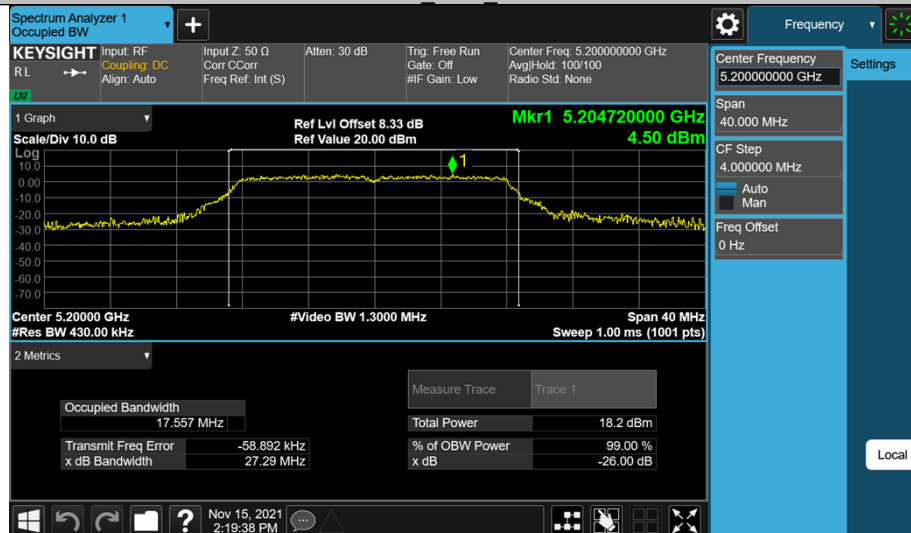
Appendix B.5: Test Results of 99% Bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.598	5171.040	5188.638	---	PASS
		5200	17.557	5191.163	5208.720	---	PASS
		5240	17.706	5230.965	5248.671	---	PASS
11N20SISO	Ant1	5180	18.547	5170.656	5189.203	---	PASS
		5200	18.573	5190.651	5209.224	---	PASS
		5240	18.532	5230.616	5249.148	---	PASS

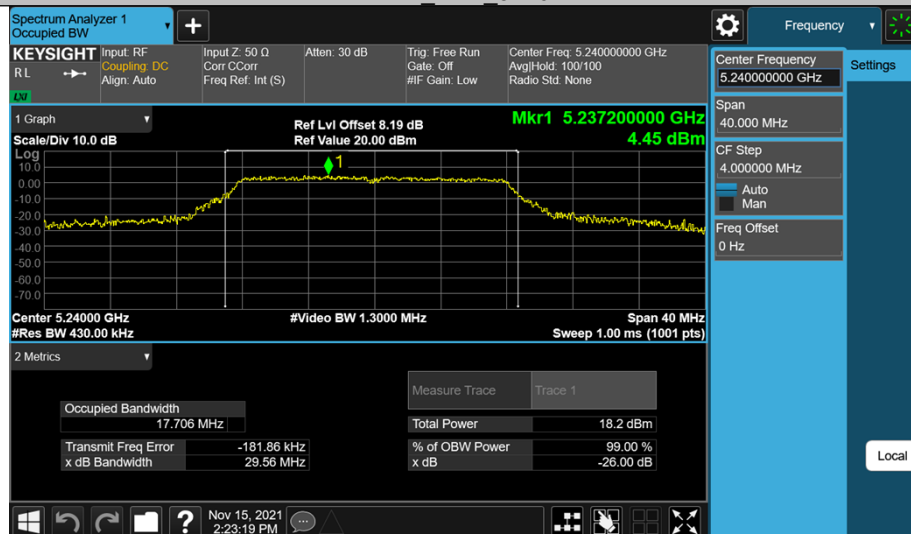
11A_Ant1_5180



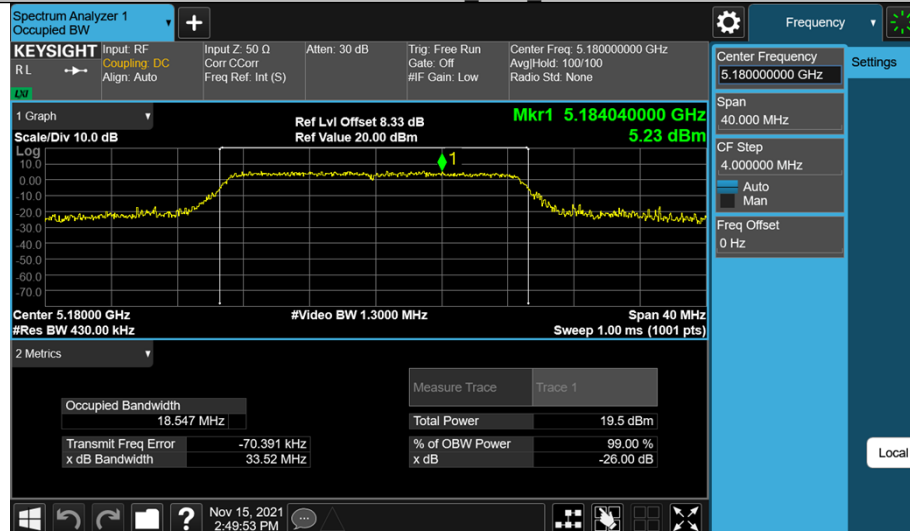
11A_Ant1_5200



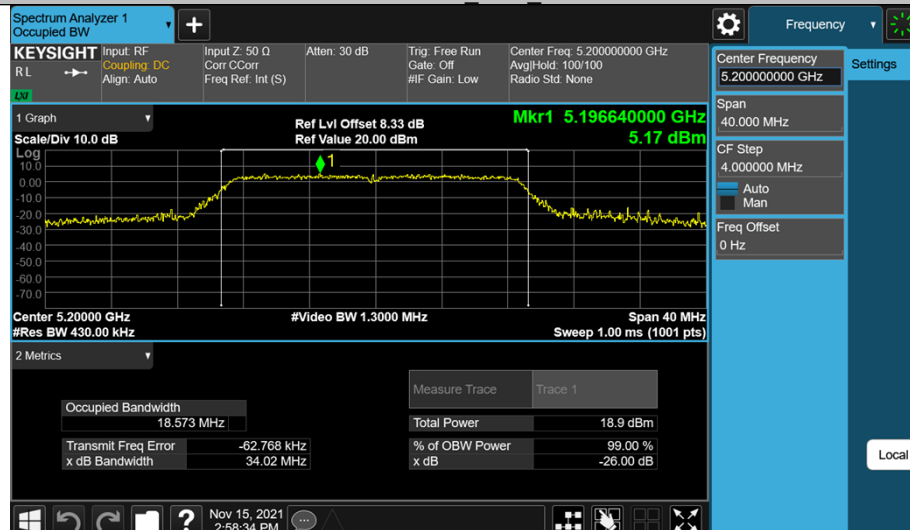
11A_Ant1_5240



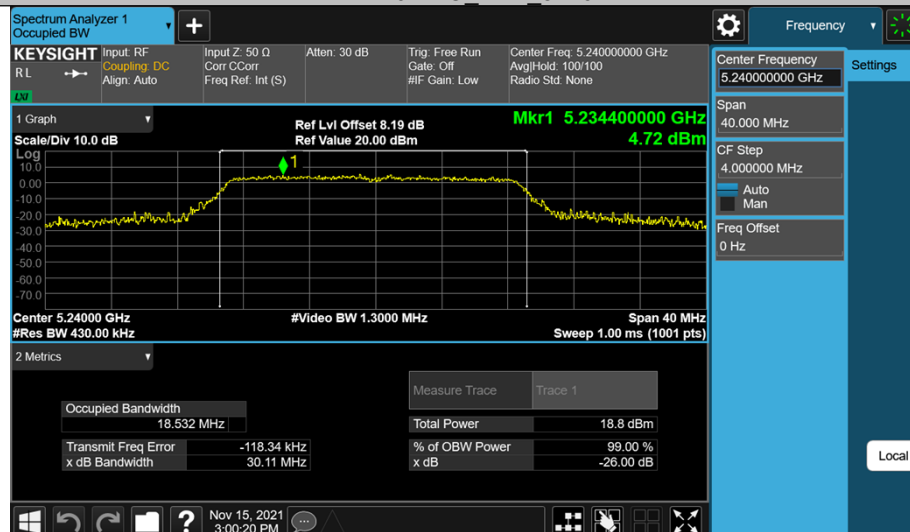
11N20SISO Ant1 5180



11N20SISO Ant1 5200



11N20SISO Ant1 5240

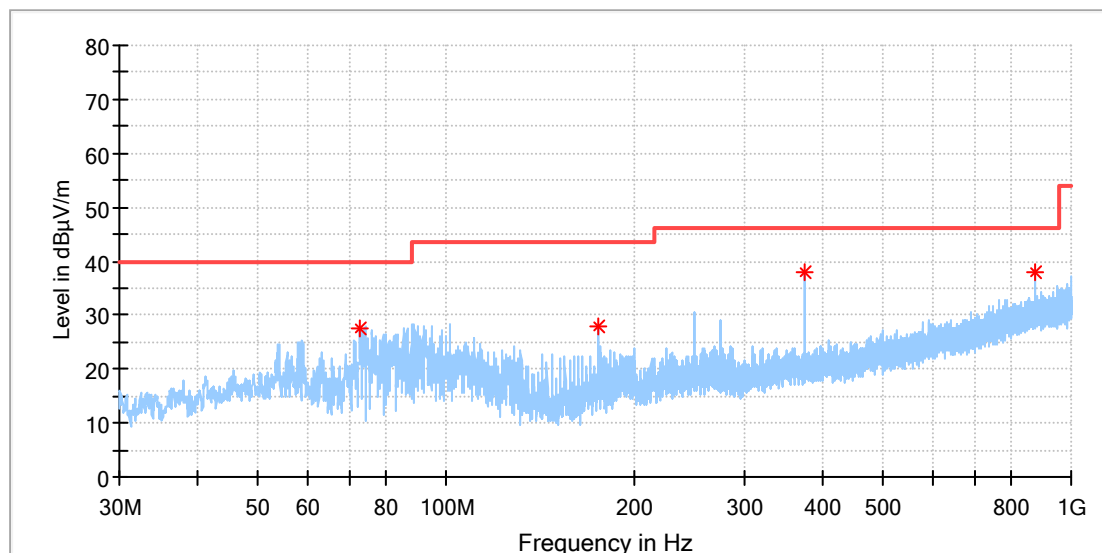


Note: Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and above 18GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

Appendix B.6: Test Results of Radiated Spurious Emissions 30MHz - 1GHz (Worst case)

EUT Information

EUT Name:	System Controller
Model:	EL-SC-300
Test Mode:	WIFI 5G_11a_Ch36
Order No/Sample No:	168339134/A003148741-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

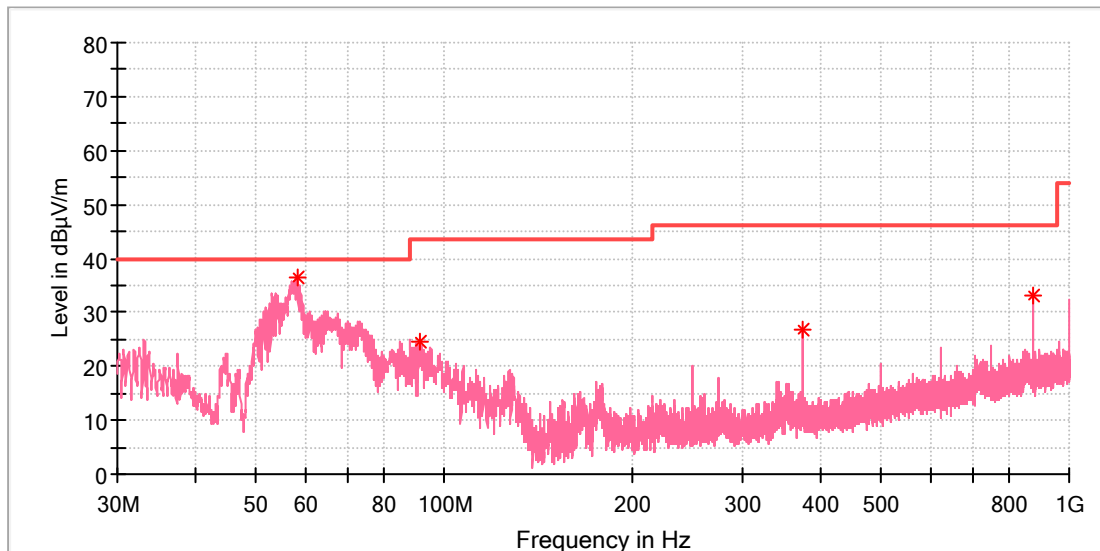
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
72.971000	27.50	40.00	12.50	100.0	H	112.0	-22.8
174.966500	28.01	43.50	15.49	100.0	H	6.0	-20.9
374.980500	37.96	46.00	8.04	100.0	H	179.0	-14.3
875.064000	37.93	46.00	8.07	100.0	H	304.0	-5.2

Final_Result

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

EUT Information

EUT Name:	System Controller
Model:	EL-SC-300
Test Mode:	WIFI 5G_11a_Ch36
Order No/Sample No:	168339134/A003148741-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.407
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)
58.316539	36.45	40.00	3.55	100.0	V	174.0	-19.1
91.333846	24.70	43.50	18.80	100.0	V	359.0	-21.0
374.984231	26.87	46.00	19.13	100.0	V	174.0	-14.7
875.019231	33.22	46.00	12.78	100.0	V	215.0	-5.6

Final Result

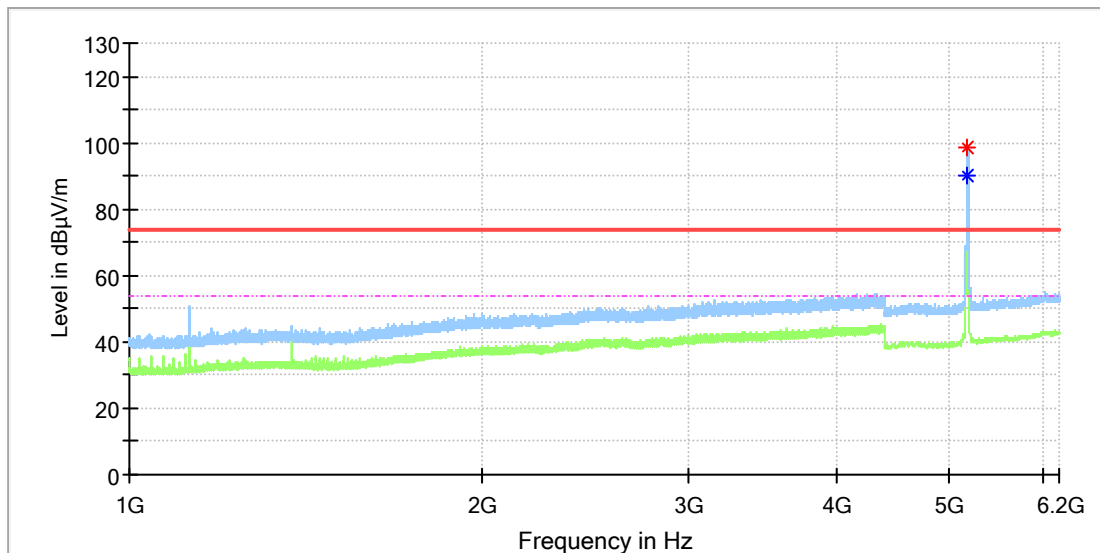
Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

1GHz - 18GHz

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

EUT Information

EUT Name:	System Controller
Model:	EL-SC-300
Test Mode:	WIFI 5G_11a_Ch36
Order No/Sample No:	168339134/A003148741-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

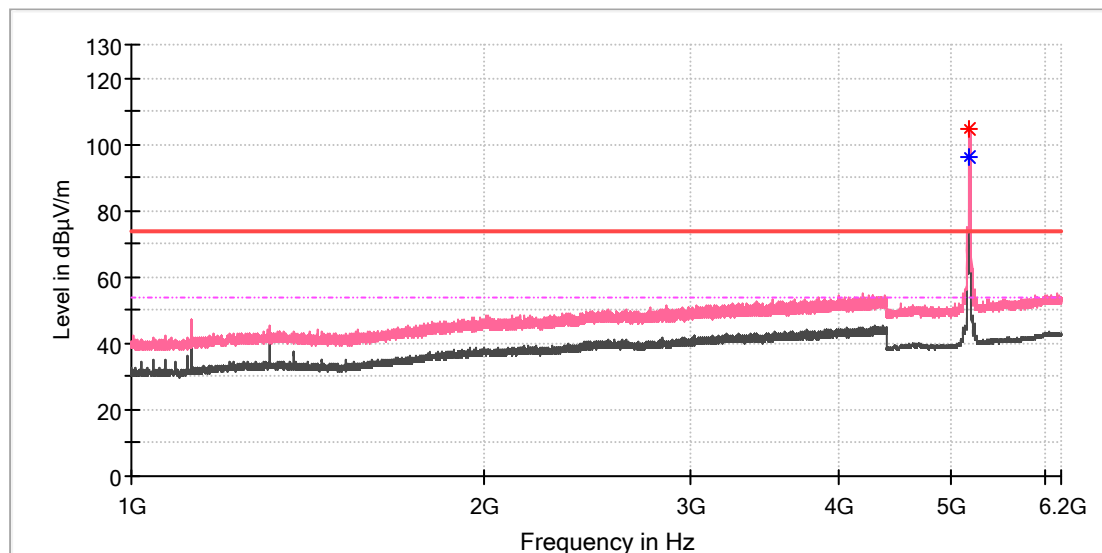
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5175.000000	98.86	---			100.0	H	152.0	12.5
5176.000000	---	89.86			100.0	H	285.0	12.5

Final_Result

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

EUT Information

EUT Name:	System Controller
Model:	EL-SC-300
Test Mode:	WIFI 5G_11a_Ch36
Order No/Sample No:	168339134/A003148741-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

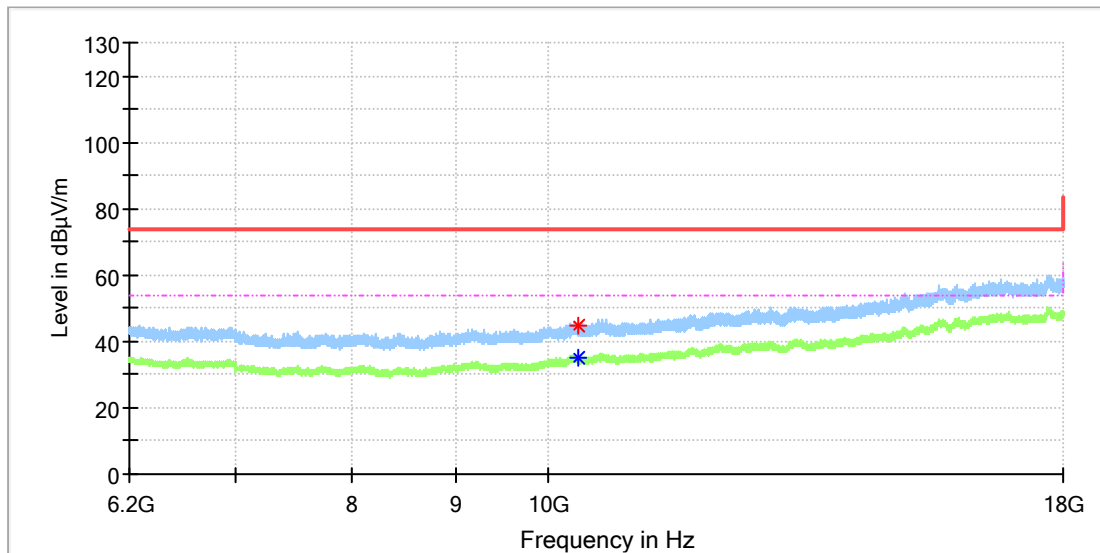
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5175.000000	---	95.91			100.0	V	50.0	12.5
5175.500000	104.61	---			100.0	V	50.0	12.5

Final Result

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

EUT Information

EUT Name:	System Controller
Model:	EL-SC-300
Test Mode:	WIFI 5G_11a_Ch36
Order No/Sample No:	168339134/A003148741-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

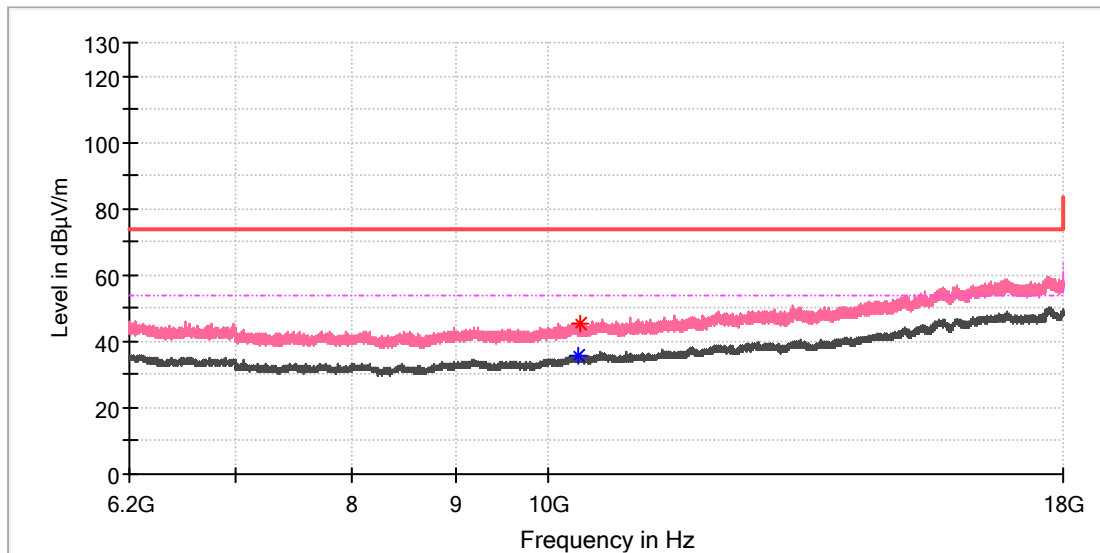
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10339.833333	45.00	---	74.00	29.00	100.0	H	109.0	11.7
10355.566667	---	35.35	54.00	18.65	100.0	H	210.0	11.8

Final Result

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

EUT Information

EUT Name:	System Controller
Model:	EL-SC-300
Test Mode:	WIFI 5G_11a_Ch36
Order No/Sample No:	168339134/A003148741-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

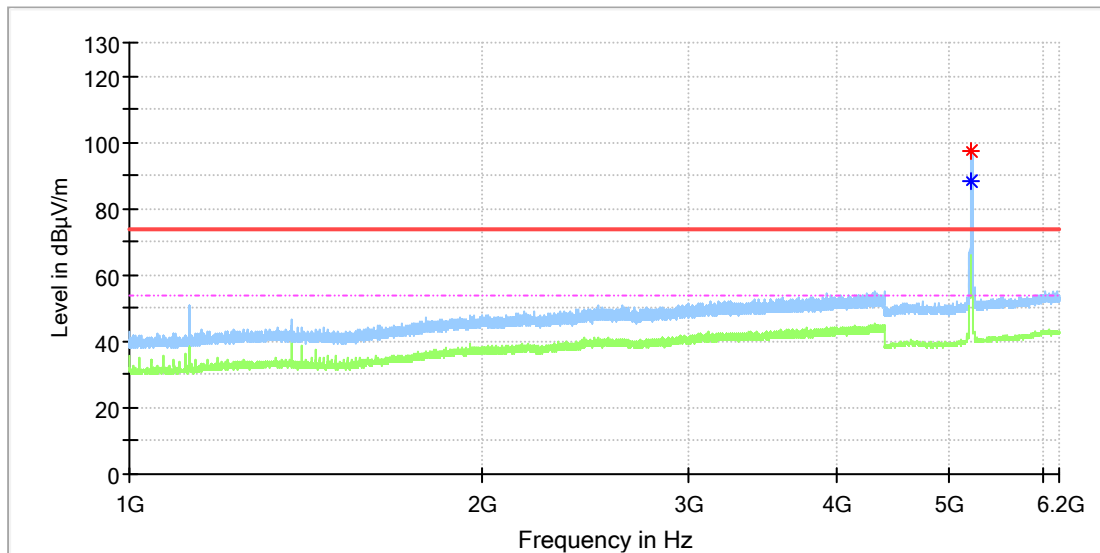
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10355.075000	---	35.62	54.00	18.38	100.0	V	225.0	11.8
10367.858333	45.59	---	74.00	28.41	100.0	V	0.0	11.8

Final Result

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

EUT Information

EUT Name:	System Controller
Model:	EL-SC-300
Test Mode:	WIFI 5G_11a_Ch44
Order No/Sample No:	168339134/A003148741-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

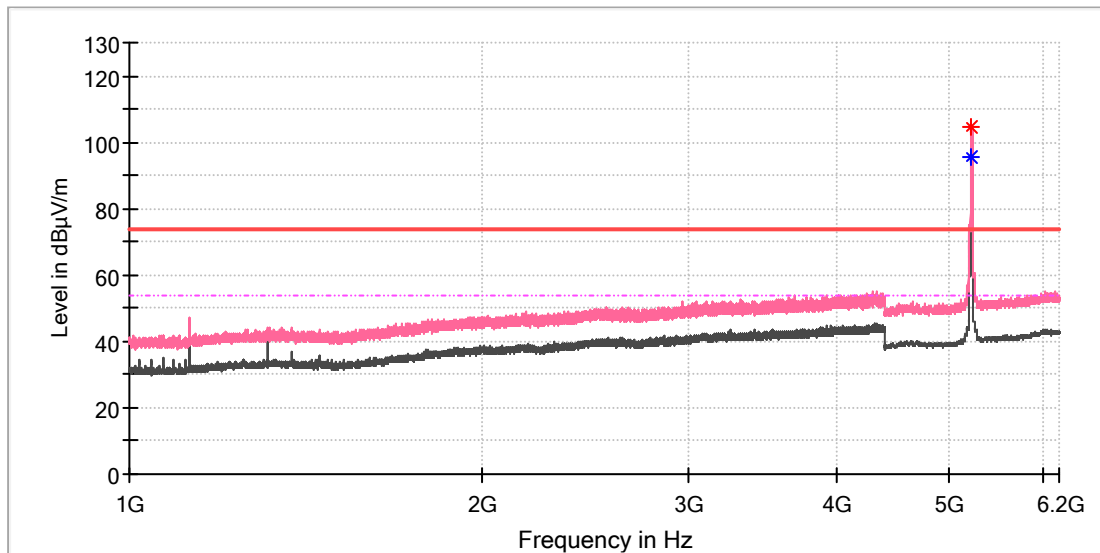
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5222.000000	---	88.35			100.0	H	155.0	12.7
5223.500000	97.16	---			100.0	H	90.0	12.7

Final Result

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

EUT Information

EUT Name:	System Controller
Model:	EL-SC-300
Test Mode:	WIFI 5G_11a_Ch44
Order No/Sample No:	168339134/A003148741-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

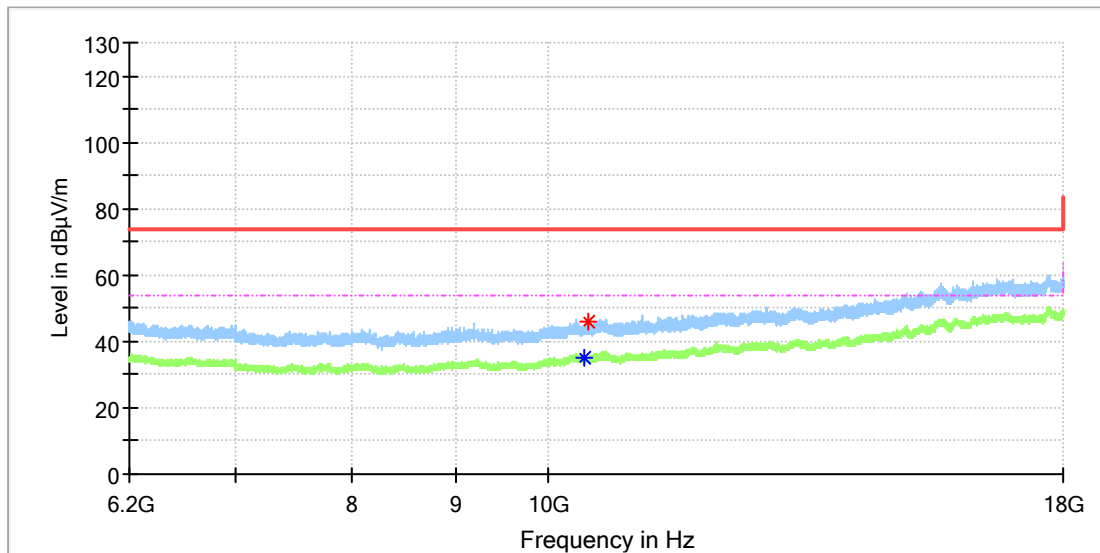
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5221.000000	---	95.69			100.0	V	53.0	12.7
5224.500000	104.49	---			100.0	V	53.0	12.7

Final Result

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

EUT Information

EUT Name:	System Controller
Model:	EL-SC-300
Test Mode:	WIFI 5G_11a_Ch44
Order No/Sample No:	168339134/A003148741-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

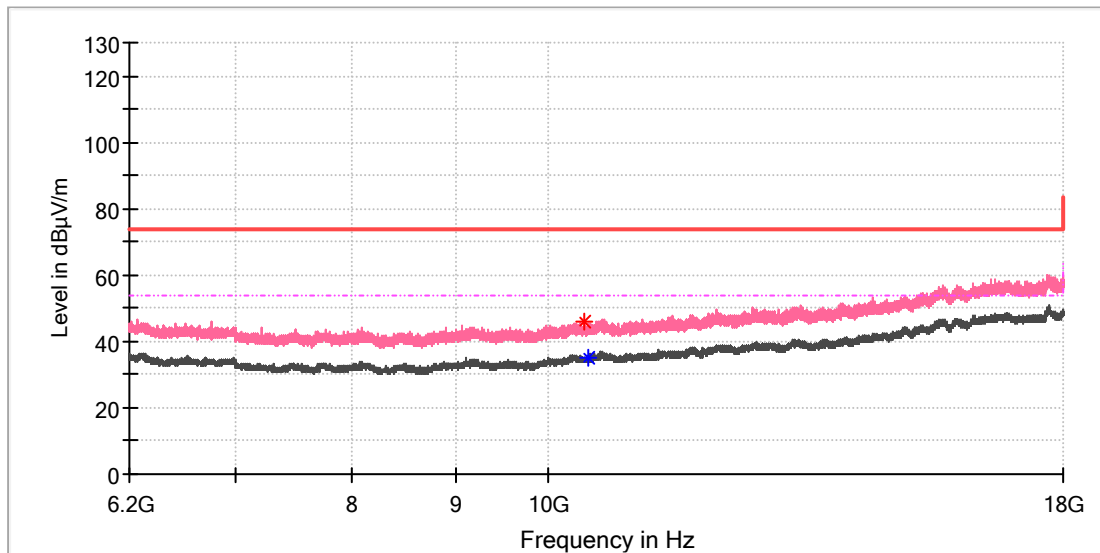
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10431.283333	---	35.13	54.00	18.87	100.0	H	301.0	11.9
10465.700000	45.95	---	74.00	28.05	100.0	H	259.0	12.0

Final Result

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

EUT Information

EUT Name:	System Controller
Model:	EL-SC-300
Test Mode:	WIFI 5G_11a_Ch44
Order No/Sample No:	168339134/A003148741-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

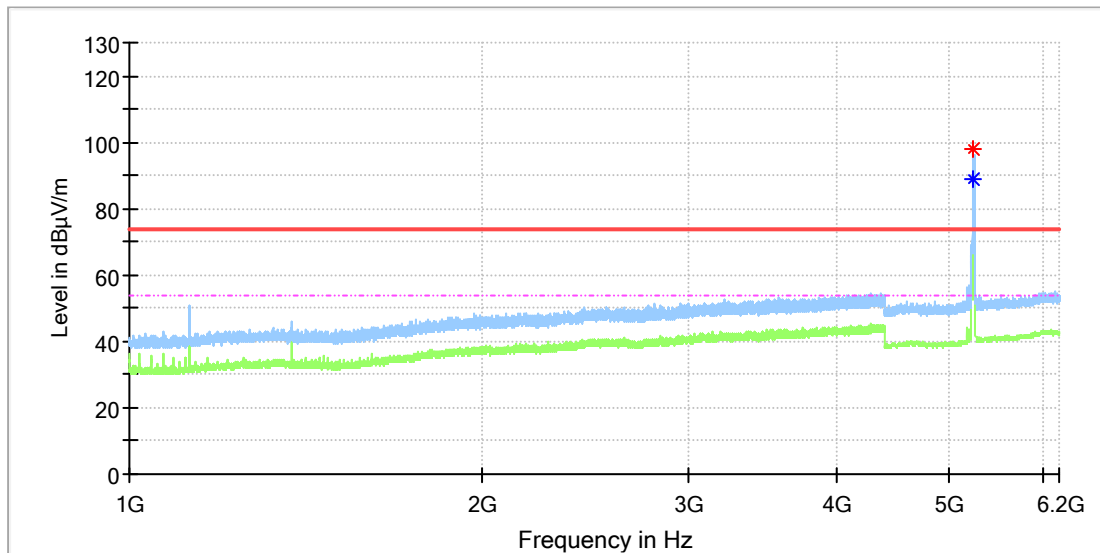
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10426.366667	45.88	---	74.00	28.12	100.0	V	209.0	11.9
10458.816667	---	35.32	54.00	18.68	100.0	V	1.0	12.0

Final Result

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

EUT Information

EUT Name:	System Controller
Model:	EL-SC-300
Test Mode:	WIFI 5G_11a_Ch48
Order No/Sample No:	168339134/A003148741-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

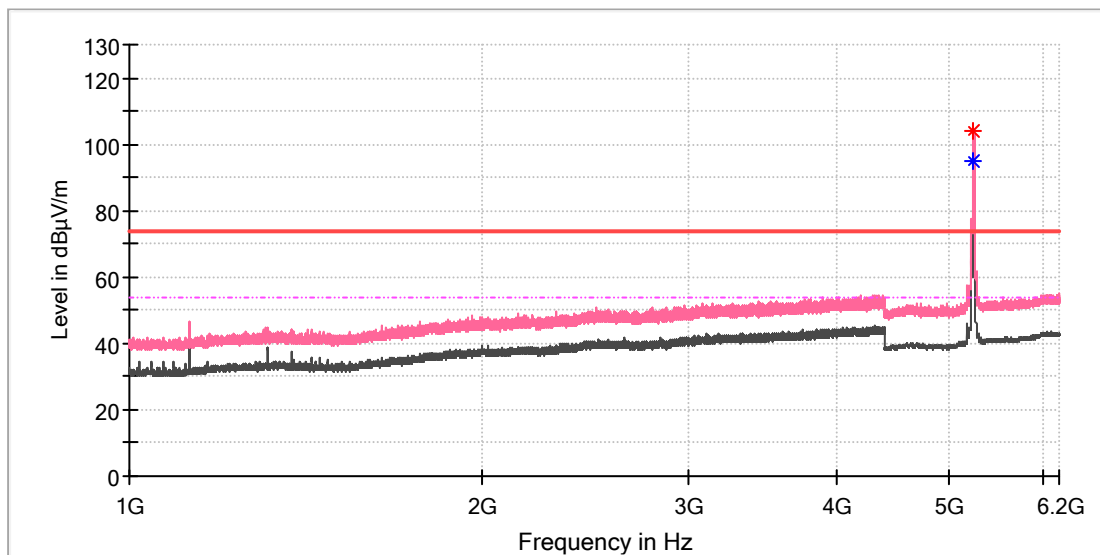
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5236.000000	97.96	---			100.0	H	91.0	12.8
5237.000000	---	89.07			100.0	H	91.0	12.8

Final Result

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

EUT Information

EUT Name:	System Controller
Model:	EL-SC-300
Test Mode:	WIFI 5G_11a_Ch48
Order No/Sample No:	168339134/A003148741-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

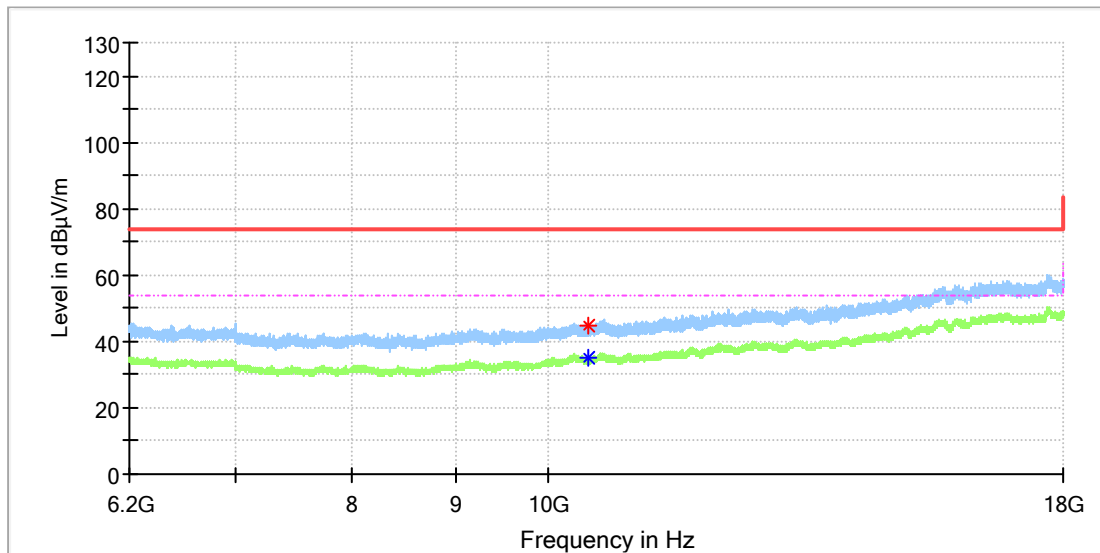
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5235.500000	103.87	---			100.0	V	64.0	12.8
5236.000000	---	95.12			100.0	V	57.0	12.8

Final Result

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

EUT Information

EUT Name:	System Controller
Model:	EL-SC-300
Test Mode:	WIFI 5G_11a_Ch48
Order No/Sample No:	168339134/A003148741-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

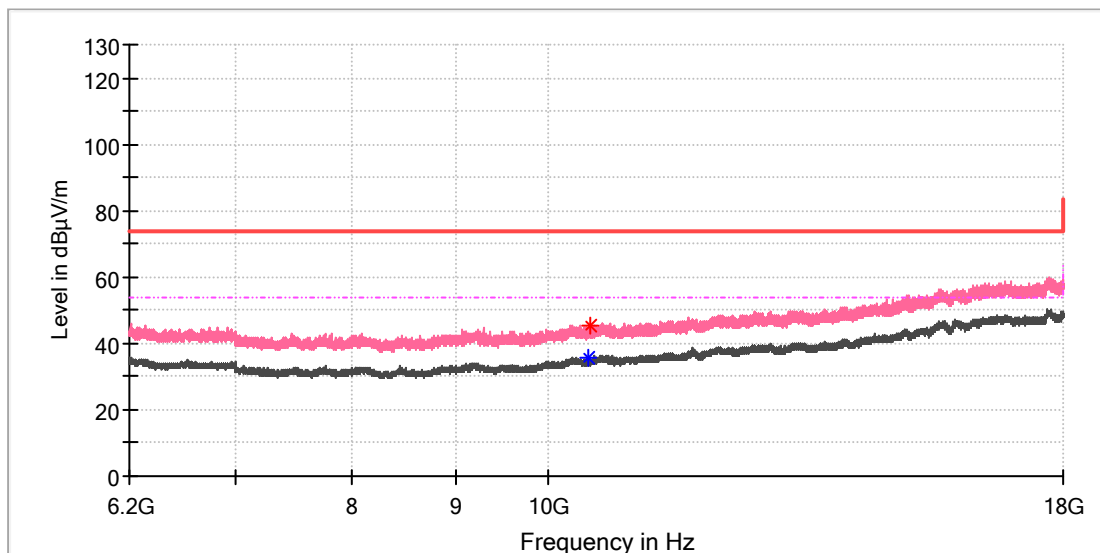
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10465.208333	44.77	---	74.00	29.23	100.0	H	4.0	12.0
10478.483333	---	35.02	54.00	18.98	100.0	H	17.0	12.0

Final Result

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

EUT Information

EUT Name:	System Controller
Model:	EL-SC-300
Test Mode:	WIFI 5G_11a_Ch48
Order No/Sample No:	168339134/A003148741-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

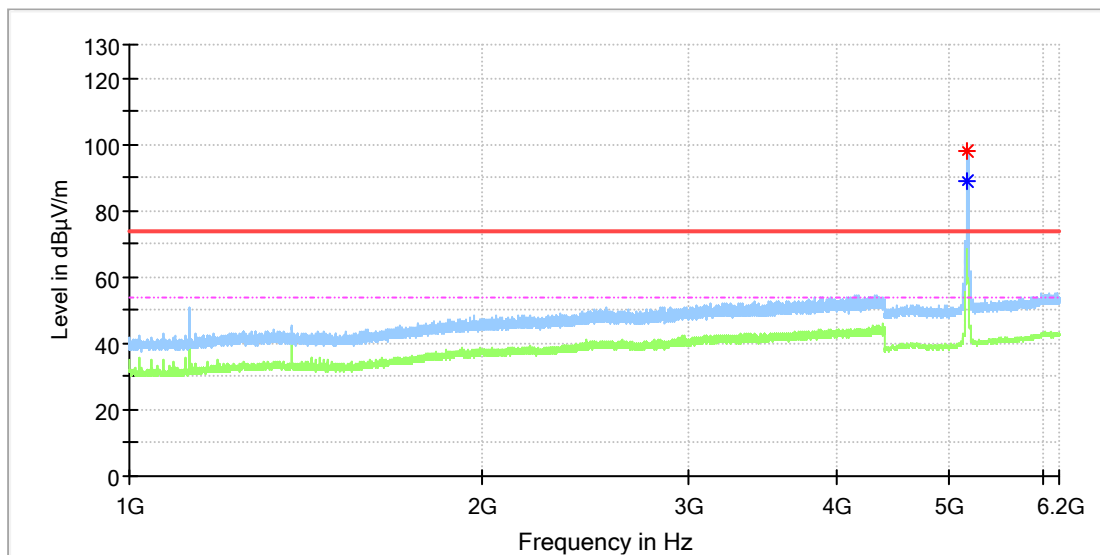
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10473.075000	---	35.84	54.00	18.16	100.0	V	339.0	12.0
10488.808333	45.10	---	74.00	28.90	100.0	V	282.0	12.0

Final Result

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

EUT Information

EUT Name:	System Controller
Model:	EL-SC-300
Test Mode:	WIFI 5G_11n_Ch36
Order No/Sample No:	168339134/A003148741-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

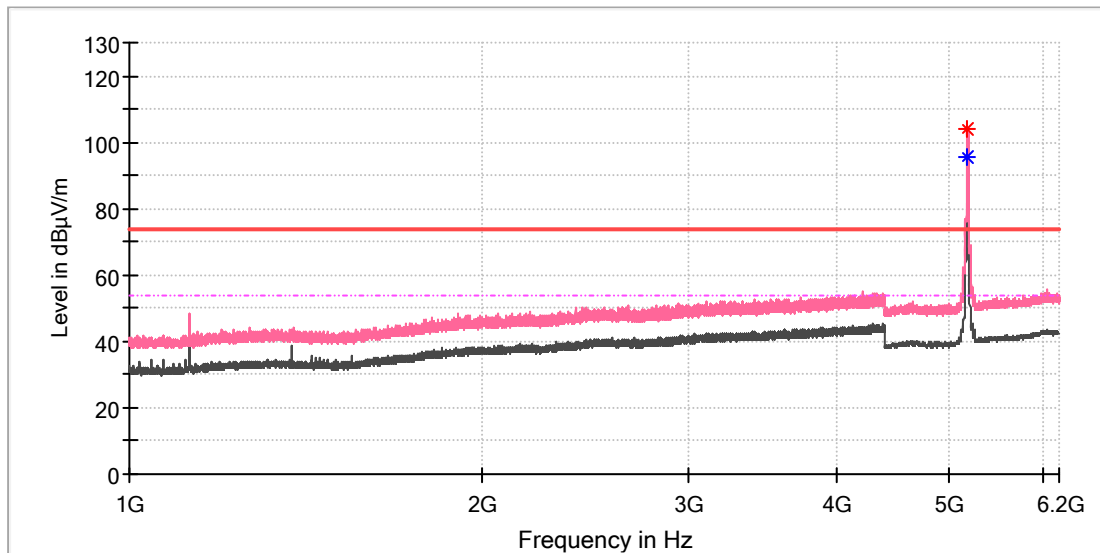
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5174.500000	98.10	---			100.0	H	153.0	12.5
5179.000000	---	88.89			100.0	H	153.0	12.6

Final Result

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

EUT Information

EUT Name:	System Controller
Model:	EL-SC-300
Test Mode:	WIFI 5G_11n_Ch36
Order No/Sample No:	168339134/A003148741-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

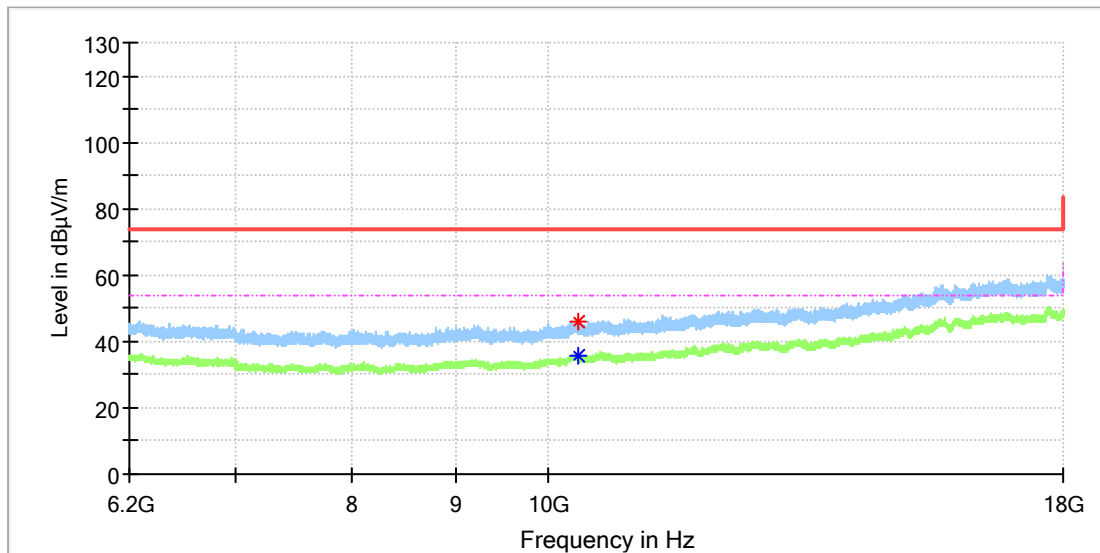
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5176.500000	---	95.40			100.0	V	51.0	12.5
5178.500000	104.18	---			100.0	V	51.0	12.6

Final Result

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

EUT Information

EUT Name:	System Controller
Model:	EL-SC-300
Test Mode:	WIFI 5G_11n_Ch36
Order No/Sample No:	168339134/A003148741-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

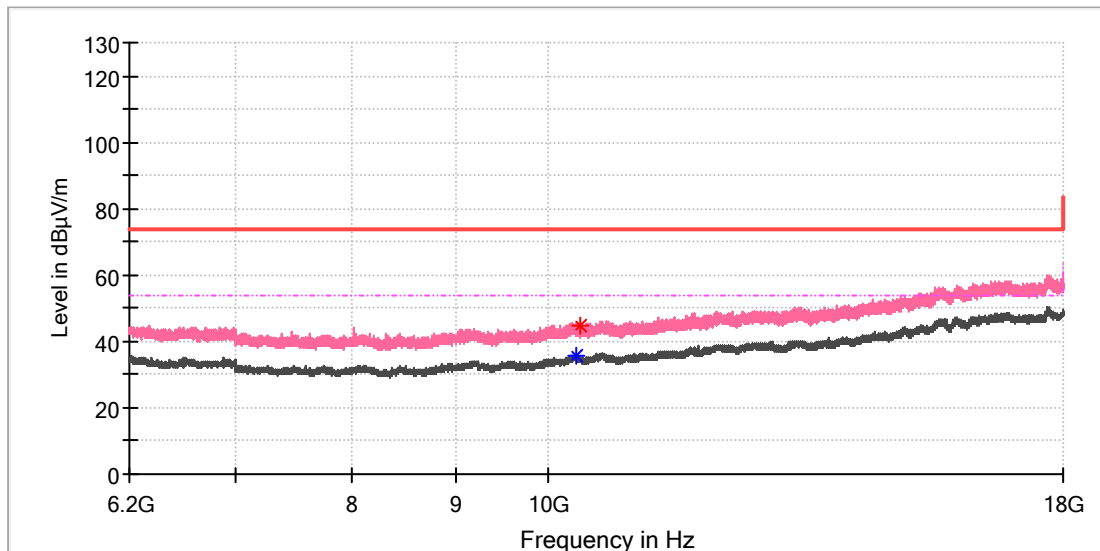
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10342.783333	---	35.60	54.00	18.40	100.0	H	207.0	11.7
10346.225000	45.90	---	74.00	28.10	100.0	H	0.0	11.7

Final Result

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

EUT Information

EUT Name:	System Controller
Model:	EL-SC-300
Test Mode:	WIFI 5G_11n_Ch36
Order No/Sample No:	168339134/A003148741-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

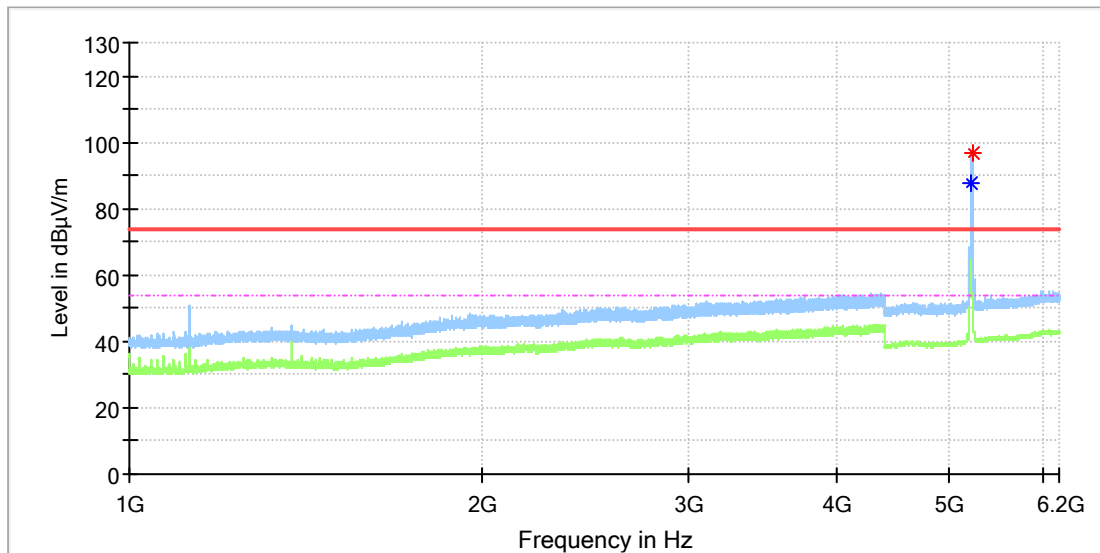
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10314.266667	---	35.76	54.00	18.24	100.0	V	354.0	11.6
10368.350000	44.88	---	74.00	29.12	100.0	V	56.0	11.8

Final Result

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

EUT Information

EUT Name:	System Controller
Model:	EL-SC-300
Test Mode:	WIFI 5G_11n_Ch44
Order No/Sample No:	168339134/A003148741-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

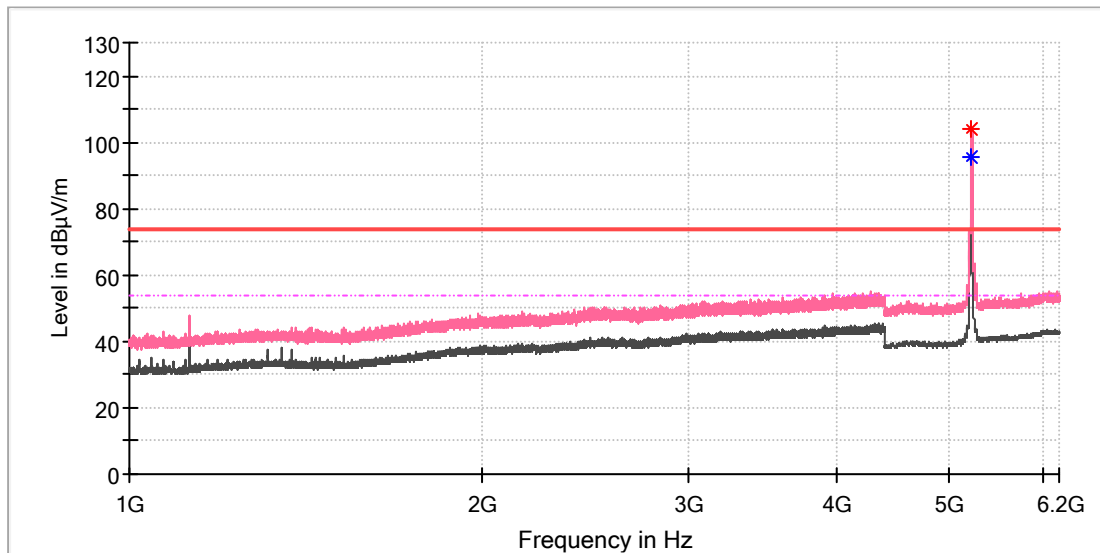
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5221.500000	---	87.66			100.0	H	89.0	12.7
5226.000000	96.55	---			100.0	H	95.0	12.8

Final Result

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

EUT Information

EUT Name:	System Controller
Model:	EL-SC-300
Test Mode:	WIFI 5G_11n_Ch44
Order No/Sample No:	168339134/A003148741-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

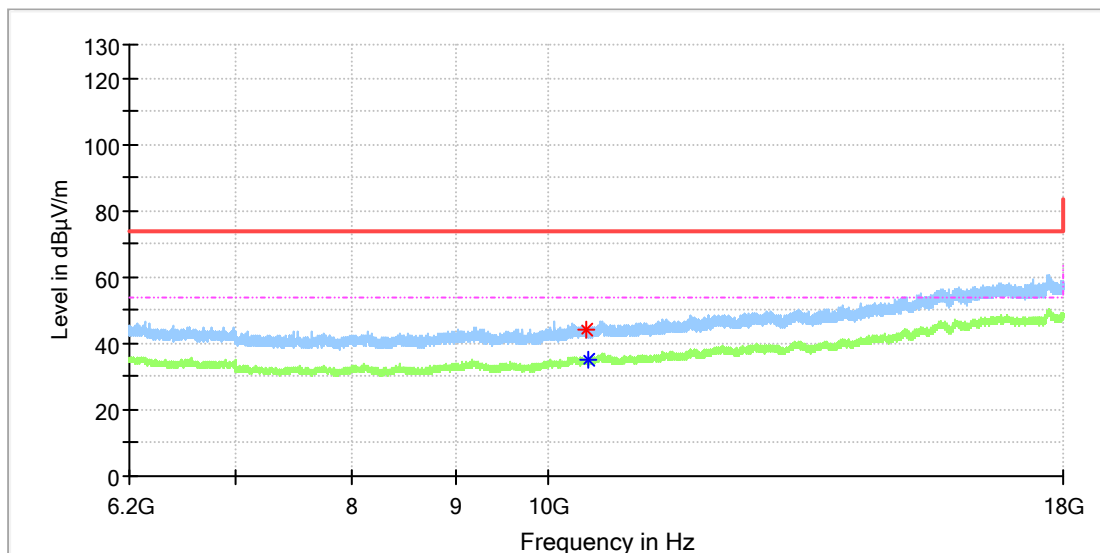
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5223.000000	---	95.39			100.0	V	52.0	12.7
5223.500000	104.16	---			100.0	V	52.0	12.7

Final Result

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

EUT Information

EUT Name:	System Controller
Model:	EL-SC-300
Test Mode:	WIFI 5G_11n_Ch44
Order No/Sample No:	168339134/A003148741-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

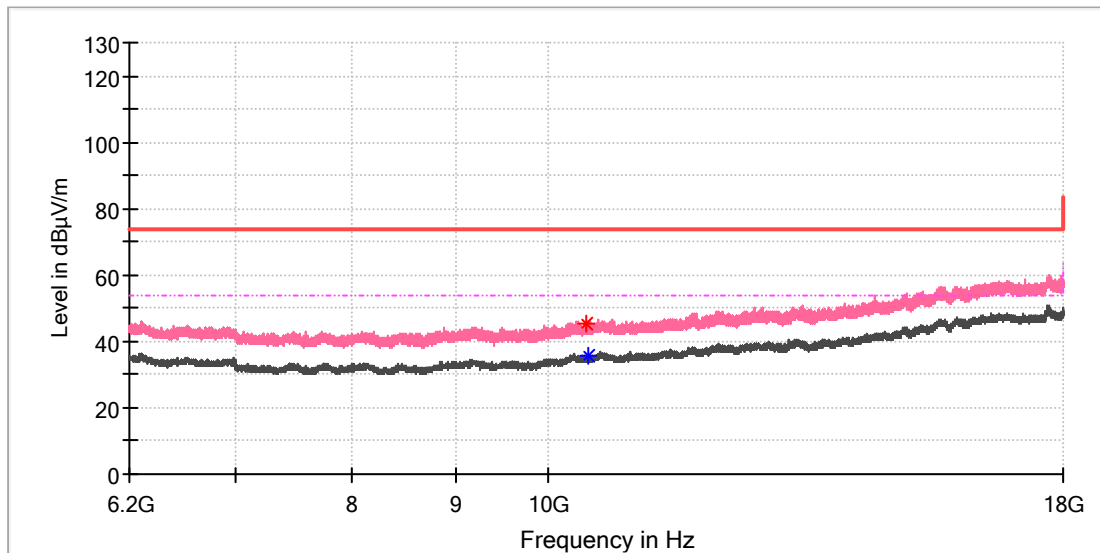
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10447.016667	44.43	---	74.00	29.57	100.0	H	28.0	11.9
10462.258333	---	35.23	54.00	18.77	100.0	H	192.0	12.0

Final Result

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

EUT Information

EUT Name:	System Controller
Model:	EL-SC-300
Test Mode:	WIFI 5G_11n_Ch44
Order No/Sample No:	168339134/A003148741-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

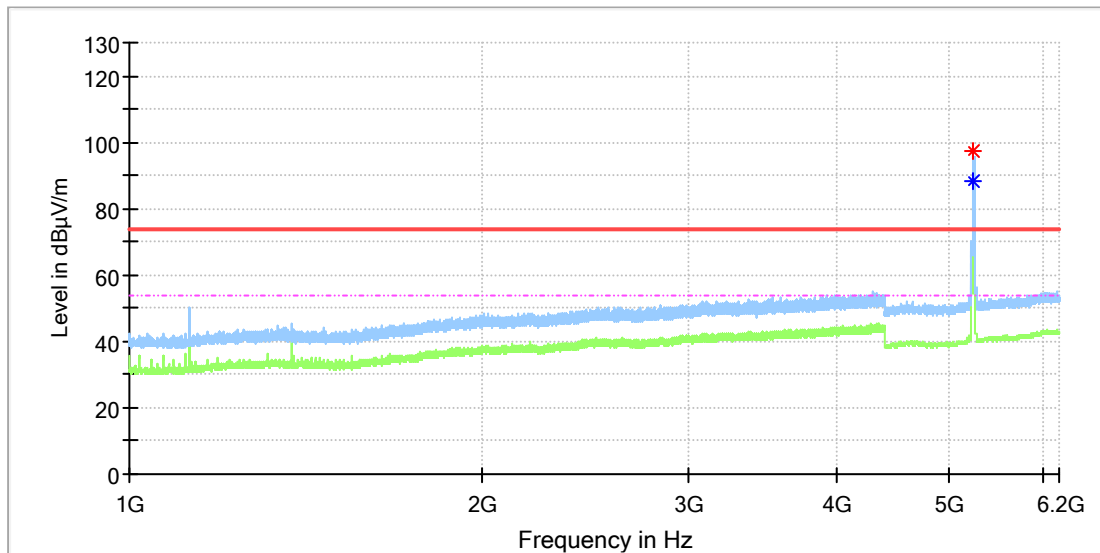
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10442.591667	45.20	---	74.00	28.80	100.0	V	110.0	11.9
10467.666667	---	35.44	54.00	18.56	100.0	V	207.0	12.0

Final Result

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

EUT Information

EUT Name:	System Controller
Model:	EL-SC-300
Test Mode:	WIFI 5G_11n_Ch48
Order No/Sample No:	168339134/A003148741-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

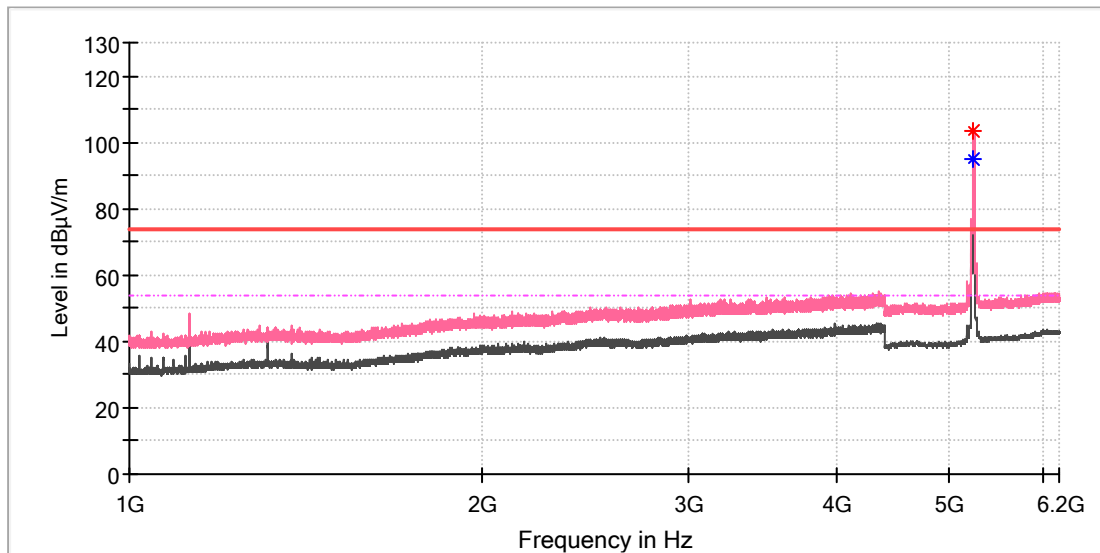
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5237.500000	---	88.48			100.0	H	151.0	12.8
5242.000000	97.27	---			100.0	H	151.0	12.8

Final Result

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

EUT Information

EUT Name:	System Controller
Model:	EL-SC-300
Test Mode:	WIFI 5G_11n_Ch48
Order No/Sample No:	168339134/A003148741-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

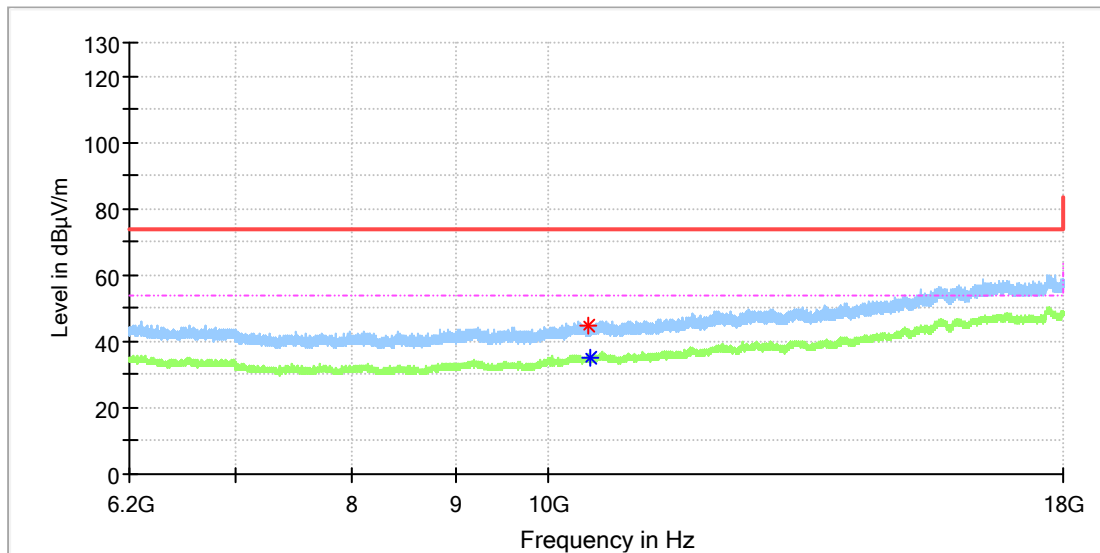
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5235.500000	103.36	---			100.0	V	53.0	12.8
5237.000000	---	94.73			100.0	V	68.0	12.8

Final Result

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

EUT Information

EUT Name:	System Controller
Model:	EL-SC-300
Test Mode:	WIFI 5G_11n_Ch48
Order No/Sample No:	168339134/A003148741-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

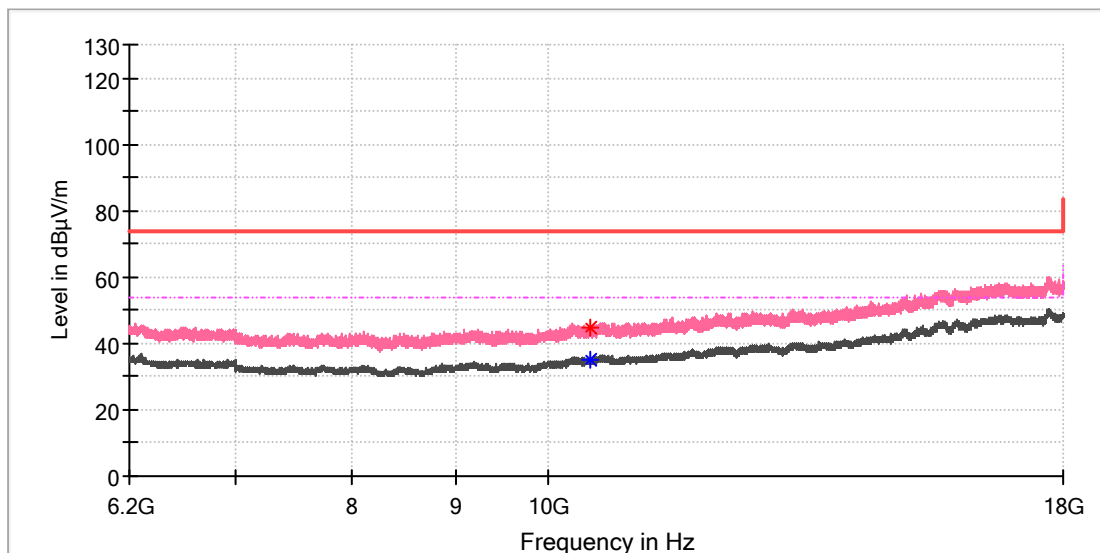
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10474.058333	44.88	---	74.00	29.12	100.0	H	0.0	12.0
10500.608333	---	35.11	54.00	18.89	100.0	H	0.0	12.0

Final Result

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

EUT Information

EUT Name:	System Controller
Model:	EL-SC-300
Test Mode:	WIFI 5G_11n_Ch48
Order No/Sample No:	168339134/A003148741-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.407
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)
10493.233333	44.71	---	74.00	29.29	100.0	V	280.0	12.0
10493.233333	---	35.34	54.00	18.66	100.0	V	280.0	12.0

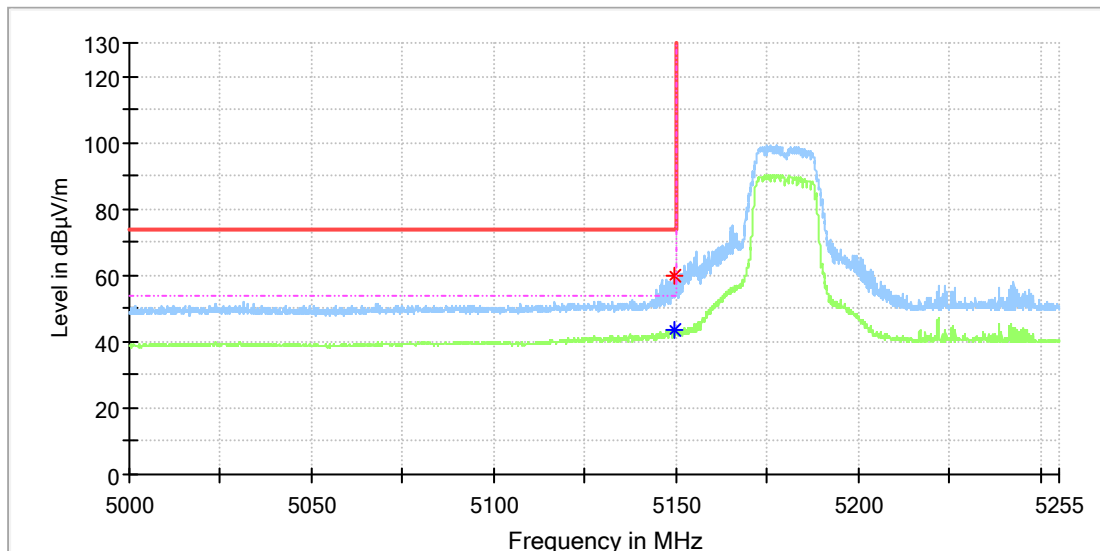
Final Result

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

Appendix B.7: Test Results of Radiated Emissions in Restricted Bands Wi-Fi 802.11 a mode

EUT Information

EUT Name:	System Controller
Model:	EL-SC-300
Test Mode:	WIFI 5G_11a_Ch36
Order No./Sample No:	168339134/A003148741-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

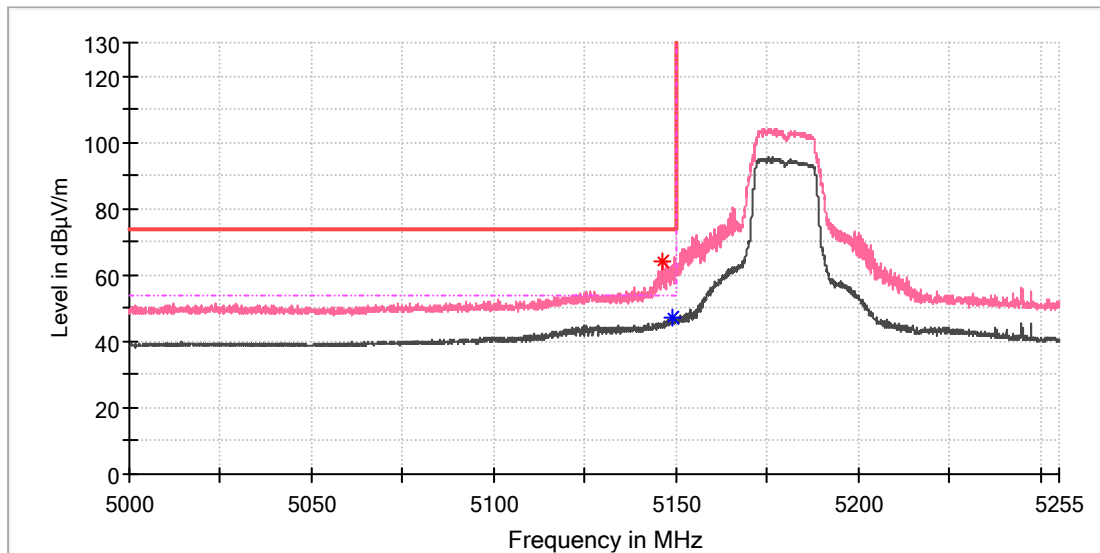
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5149.245833	---	43.37	54.00	10.63	100.0	H	95.0	12.4
5149.245833	59.71	---	74.00	14.29	100.0	H	95.0	12.4

Final_Result

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

EUT Information

EUT Name:	System Controller
Model:	EL-SC-300
Test Mode:	WIFI 5G_11a_Ch36
Order No/Sample No:	168339134/A003148741-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

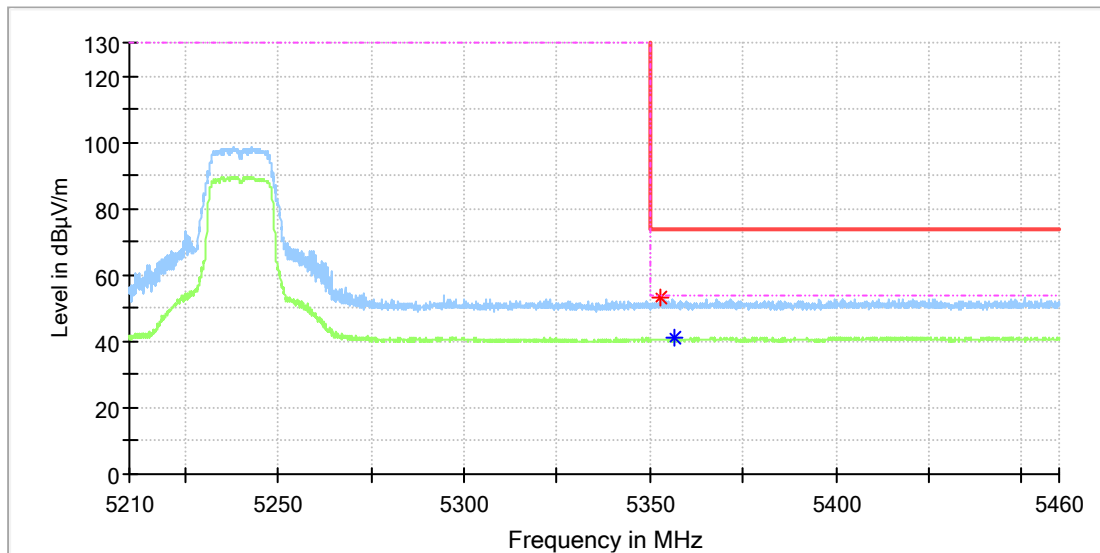
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5146.058333	64.20	---	74.00	9.80	100.0	V	63.0	12.4
5149.175000	---	46.94	54.00	7.06	100.0	V	50.0	12.4

Final Result

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

EUT Information

EUT Name:	System Controller
Model:	EL-SC-300
Test Mode:	WIFI 5G_11a_Ch48
Order No/Sample No:	168339134/A003148741-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

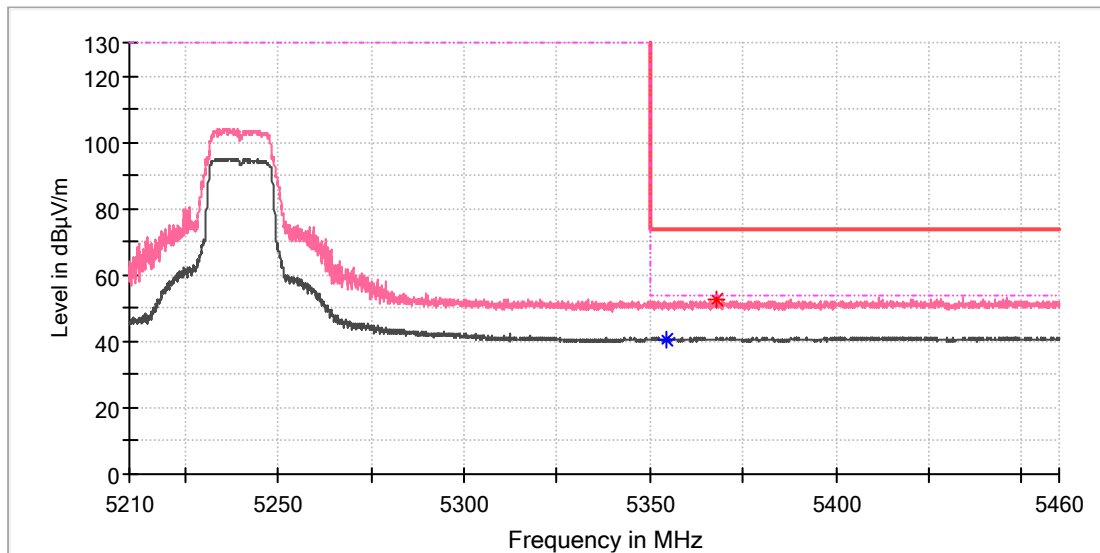
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5352.777778	53.04	---	74.00	20.96	100.0	H	180.0	13.3
5356.736111	---	40.83	54.00	13.17	100.0	H	106.0	13.3

Final Result

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

EUT Information

EUT Name:	System Controller
Model:	EL-SC-300
Test Mode:	WIFI 5G_11a_Ch48
Order No/Sample No:	168339134/A003148741-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.407
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)
5354.166667	---	40.78	54.00	13.22	100.0	V	0.0	13.3
5367.847222	52.69	---	74.00	21.31	100.0	V	110.0	13.3

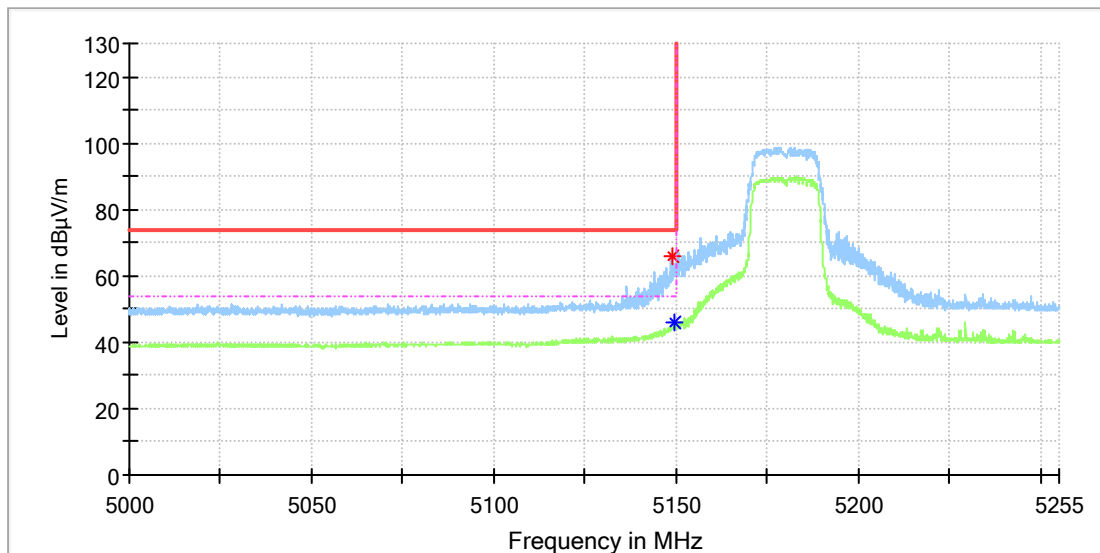
Final Result

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

Wi-Fi 802.11 n(HT20) mode

EUT Information

EUT Name:	System Controller
Model:	EL-SC-300
Test Mode:	WIFI 5G_11n_Ch36
Order No/Sample No:	168339134/A003148741-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

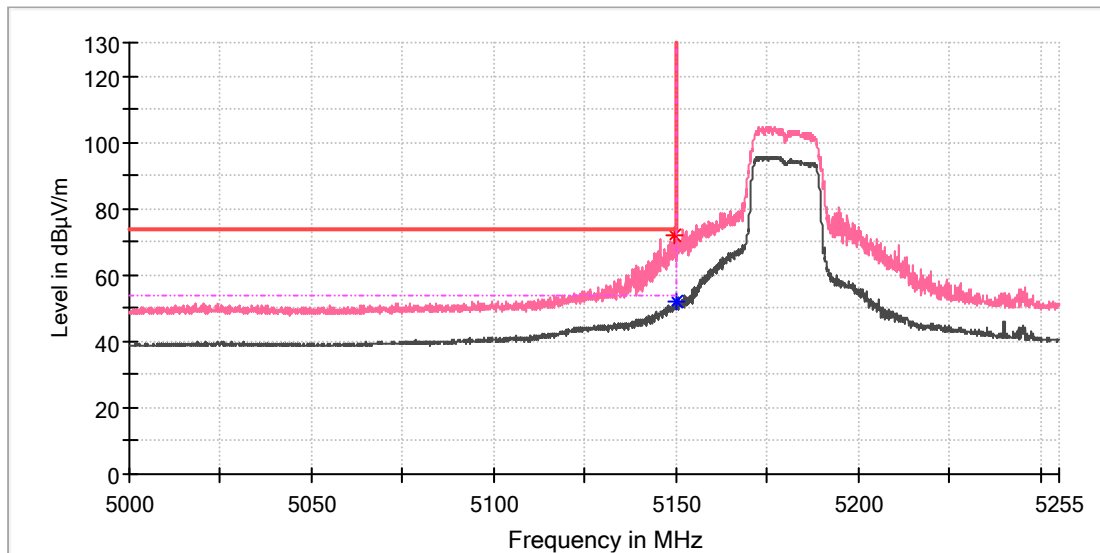
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5148.679167	65.66	---	74.00	8.34	100.0	H	289.0	12.4
5149.600000	---	45.98	54.00	8.02	100.0	H	98.0	12.4

Final Result

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

EUT Information

EUT Name:	System Controller
Model:	EL-SC-300
Test Mode:	WIFI 5G_11n_Ch36
Order No/Sample No:	168339134/A003148741-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

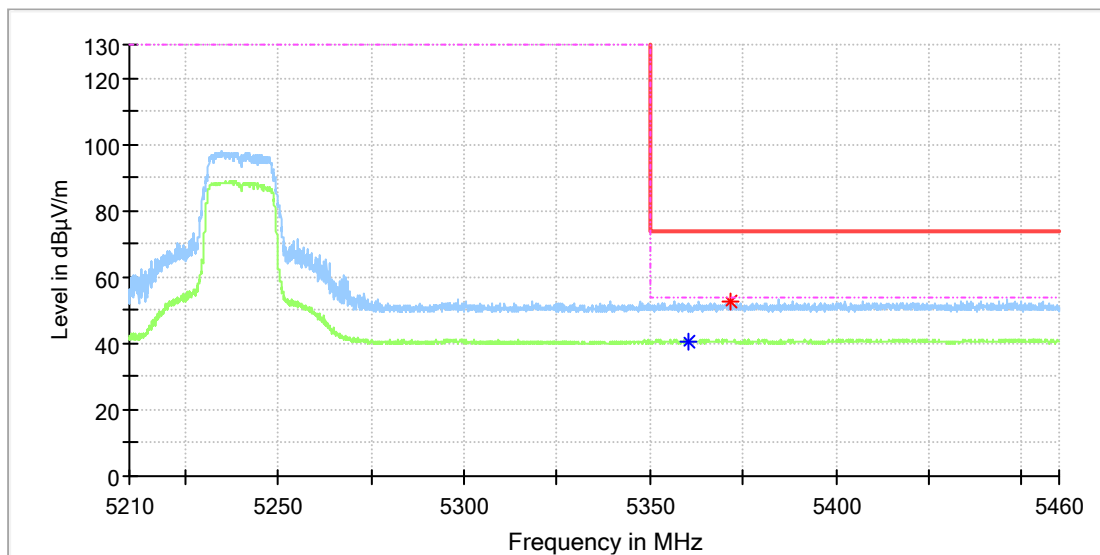
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5149.883333	---	51.90	54.00	2.10	100.0	V	55.0	12.4
5149.670833	71.86	---	74.00	2.14	100.0	V	65.0	12.4

Final Result

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

EUT Information

EUT Name:	System Controller
Model:	EL-SC-300
Test Mode:	WIFI 5G_11n_Ch48
Order No/Sample No:	168339134/A003148741-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

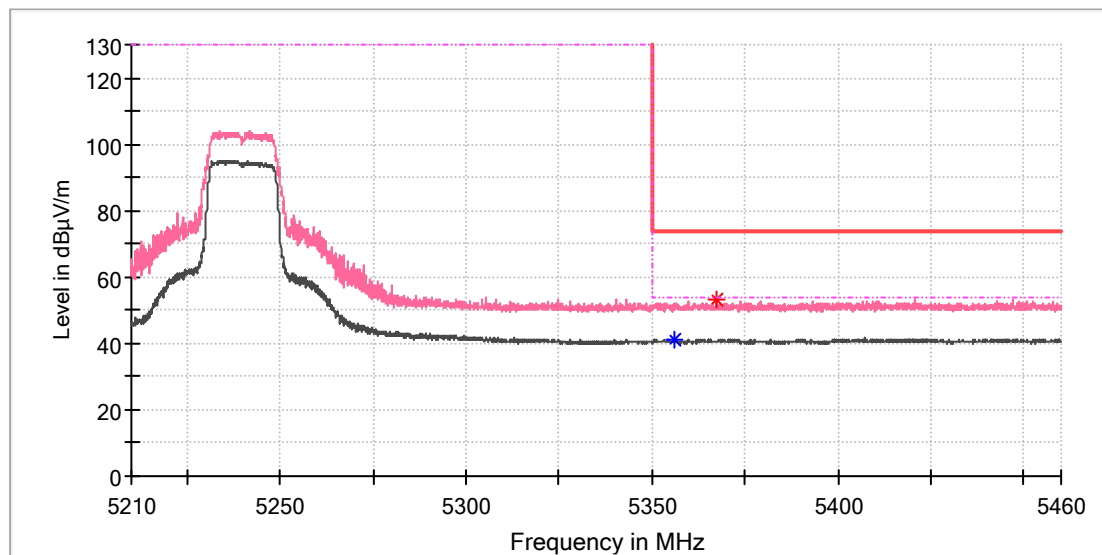
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5360.347222	---	40.49	54.00	13.51	100.0	H	276.0	13.3
5371.458333	52.72	---	74.00	21.28	100.0	H	258.0	13.3

Final Result

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

EUT Name:	System Controller
Model:	EL-SC-300
Test Mode:	WIFI 5G_11n_Ch48
Order No/Sample No:	168339134/A003148741-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.407
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)
5356.111111	---	40.87	54.00	13.13	100.0	V	280.0	13.3
5367.500000	53.15	---	74.00	20.85	100.0	V	318.0	13.3

Final Result

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