

Appendix B: Test Results of 5.2GHz Wi-Fi

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

SISO mode (Worst case_ANT1)

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	10.06	≤11.00	PASS
		5200	10.32	≤11.00	PASS
		5240	10.07	≤11.00	PASS
11N20SISO	Ant1	5180	10.16	≤11.00	PASS
		5200	10.00	≤11.00	PASS
		5240	10.18	≤11.00	PASS
11N40SISO	Ant1	5190	8.58	≤11.00	PASS
		5230	8.31	≤11.00	PASS
11AC20SISO	Ant1	5180	10.29	≤11.00	PASS
		5200	10.30	≤11.00	PASS
		5240	10.04	≤11.00	PASS
11AC40SISO	Ant1	5190	8.42	≤11.00	PASS
		5230	8.50	≤11.00	PASS
11AC80SISO	Ant1	5210	6.08	≤11.00	PASS
11AX20SISO	Ant1	5180	10.25	≤11.00	PASS
		5200	10.33	≤11.00	PASS
		5240	10.06	≤11.00	PASS
11AX40SISO	Ant1	5190	8.18	≤11.00	PASS
		5230	8.83	≤11.00	PASS
11AX80SISO	Ant1	5210	6.02	≤11.00	PASS

11A_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240



11N20SISO Ant1 5180



11N20SISO Ant1 5200



11N20SISO Ant1 5240



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180

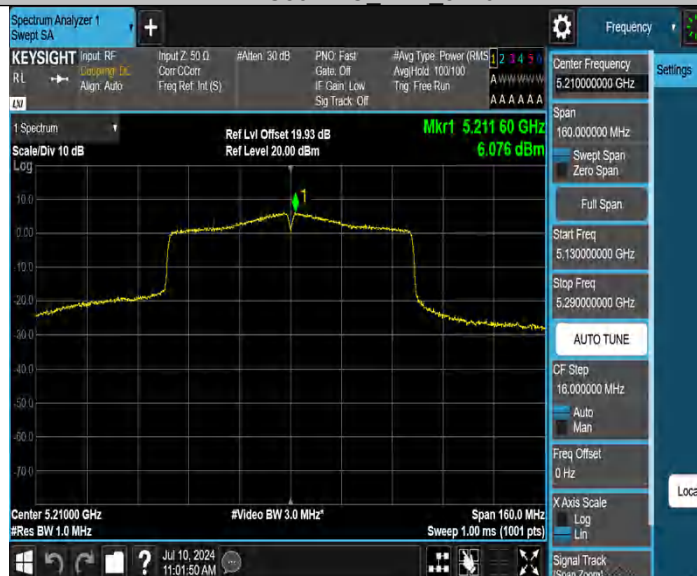




11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210



11AX20SISO_Ant1_5180



11AX20SISO_Ant1_5200



11AX20SISO_Ant1_5240



11AX40SISO_Ant1_5190





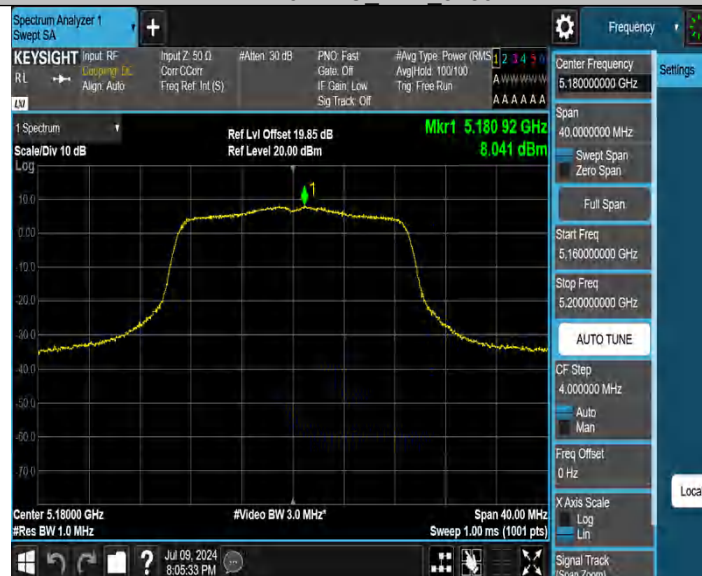
MIMO mode

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11N20MIMO	Ant0	5180	6.51	≤11.00	PASS
	Ant1	5180	8.04	≤11.00	PASS
	total	5180	10.35	≤11.00	PASS
	Ant0	5200	6.58	≤11.00	PASS
	Ant1	5200	7.97	≤11.00	PASS
	total	5200	10.34	≤11.00	PASS
	Ant0	5240	7.05	≤11.00	PASS
	Ant1	5240	7.32	≤11.00	PASS
	total	5240	10.20	≤11.00	PASS
11N40MIMO	Ant0	5190	5.03	≤11.00	PASS
	Ant1	5190	6.49	≤11.00	PASS
	total	5190	8.83	≤11.00	PASS
	Ant0	5230	5.41	≤11.00	PASS
	Ant1	5230	6.08	≤11.00	PASS
	total	5230	8.77	≤11.00	PASS
11AC20MIMO	Ant0	5180	6.46	≤11.00	PASS
	Ant1	5180	8.00	≤11.00	PASS
	total	5180	10.31	≤11.00	PASS
	Ant0	5200	6.53	≤11.00	PASS
	Ant1	5200	8.16	≤11.00	PASS
	total	5200	10.43	≤11.00	PASS
	Ant0	5240	6.68	≤11.00	PASS
	Ant1	5240	7.59	≤11.00	PASS
	total	5240	10.17	≤11.00	PASS
11AC40MIMO	Ant0	5190	5.07	≤11.00	PASS
	Ant1	5190	6.50	≤11.00	PASS
	total	5190	8.85	≤11.00	PASS
	Ant0	5230	5.34	≤11.00	PASS
	Ant1	5230	6.00	≤11.00	PASS
	total	5230	8.69	≤11.00	PASS
11AC80MIMO	Ant0	5210	1.85	≤11.00	PASS
	Ant1	5210	2.56	≤11.00	PASS
	total	5210	5.23	≤11.00	PASS
11AX20MIMO	Ant0	5180	6.46	≤11.00	PASS
	Ant1	5180	8.04	≤11.00	PASS
	total	5180	10.33	≤11.00	PASS
	Ant0	5200	6.70	≤11.00	PASS
	Ant1	5200	8.06	≤11.00	PASS
	total	5200	10.44	≤11.00	PASS
	Ant0	5240	6.57	≤11.00	PASS
	Ant1	5240	7.87	≤11.00	PASS
	total	5240	10.28	≤11.00	PASS
11AX40MIMO	Ant0	5190	3.51	≤11.00	PASS
	Ant1	5190	5.99	≤11.00	PASS
	total	5190	7.93	≤11.00	PASS
	Ant0	5230	4.71	≤11.00	PASS
	Ant1	5230	5.35	≤11.00	PASS
	total	5230	8.05	≤11.00	PASS
11AX80MIMO	Ant0	5210	2.01	≤11.00	PASS
	Ant1	5210	2.83	≤11.00	PASS
	total	5210	5.45	≤11.00	PASS

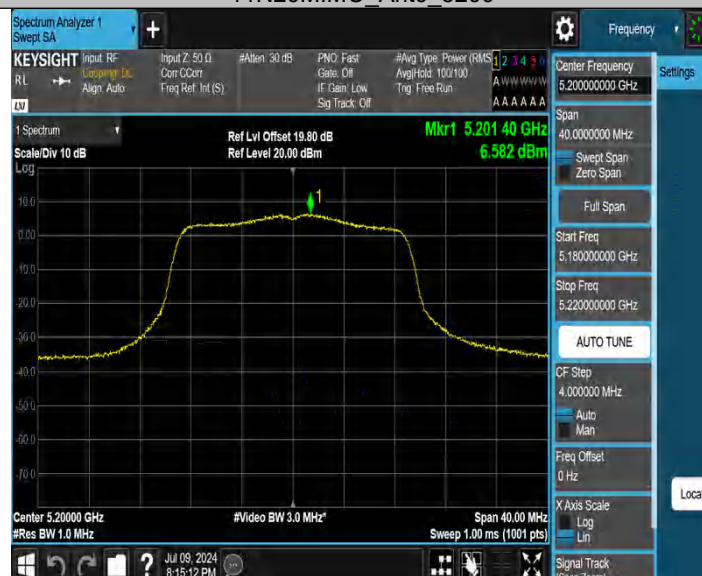
11N20MIMO_Ant0_5180



11N20MIMO_Ant1_5180



11N20MIMO_Ant0_5200



11N20MIMO_Ant1_5200

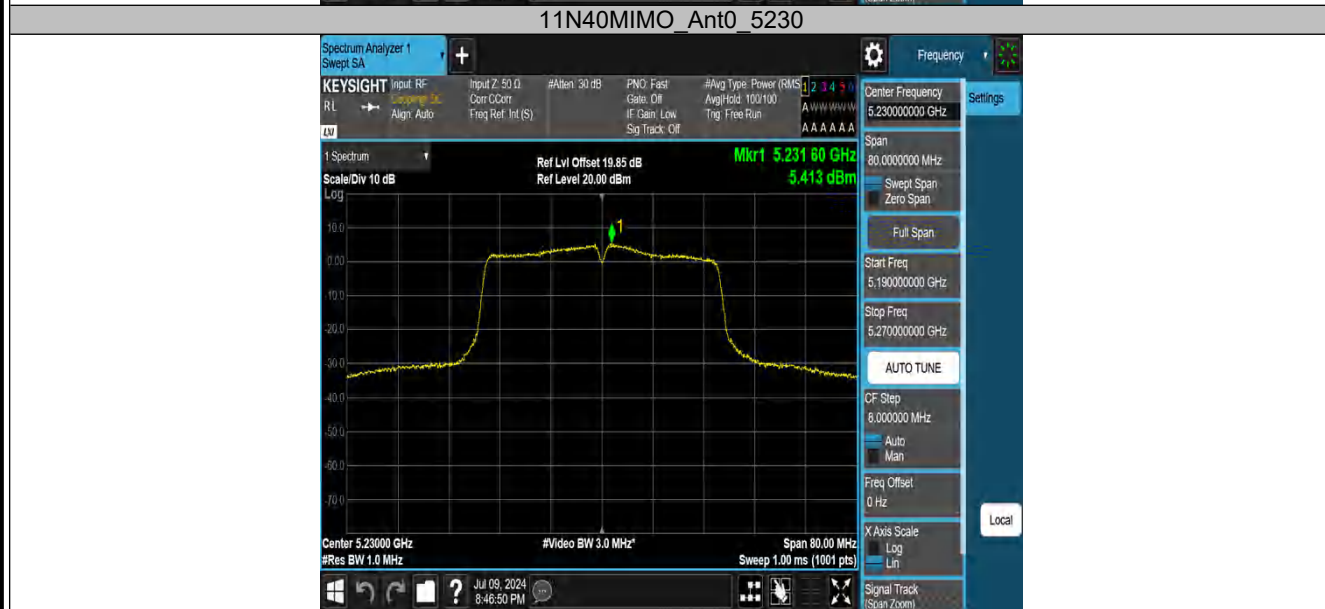


11N20MIMO_Ant0_5240



11N20MIMO_Ant1_5240

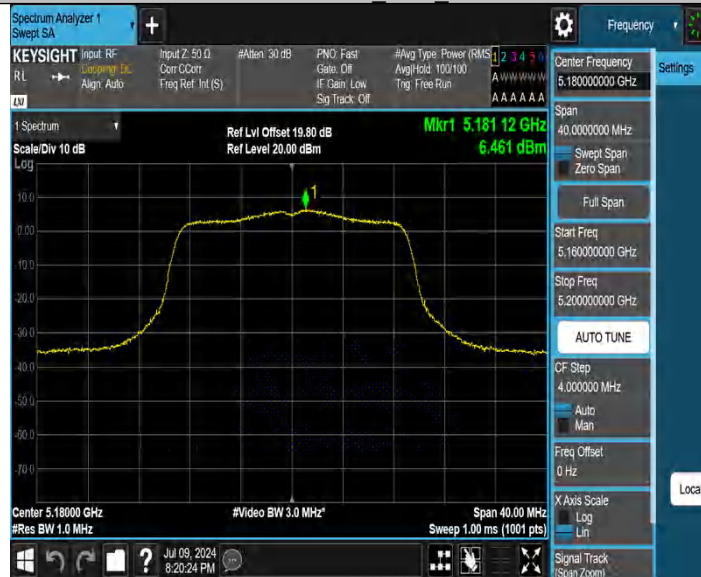




11N40MIMO_Ant1_5230



11AC20MIMO_Ant0_5180



11AC20MIMO_Ant1_5180



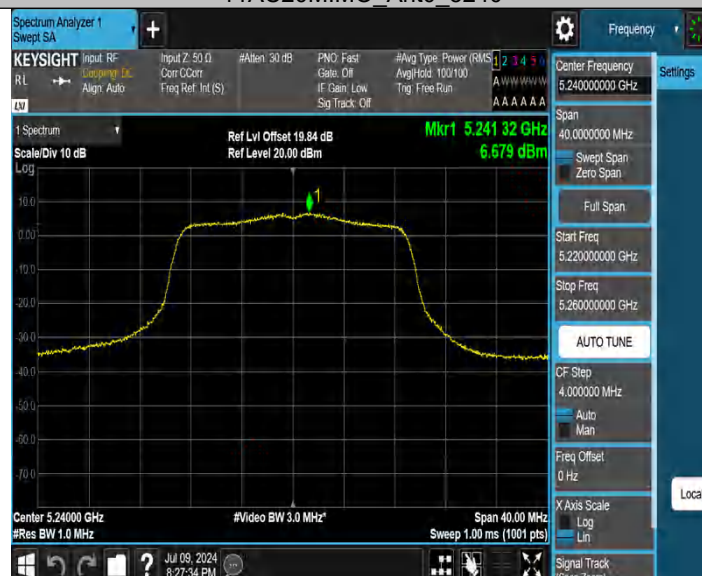
11AC20MIMO_Ant0_5200



11AC20MIMO_Ant1_5200



11AC20MIMO_Ant0_5240



11AC20MIMO_Ant1_5240



11AC40MIMO_Ant0_5190



11AC40MIMO_Ant1_5190



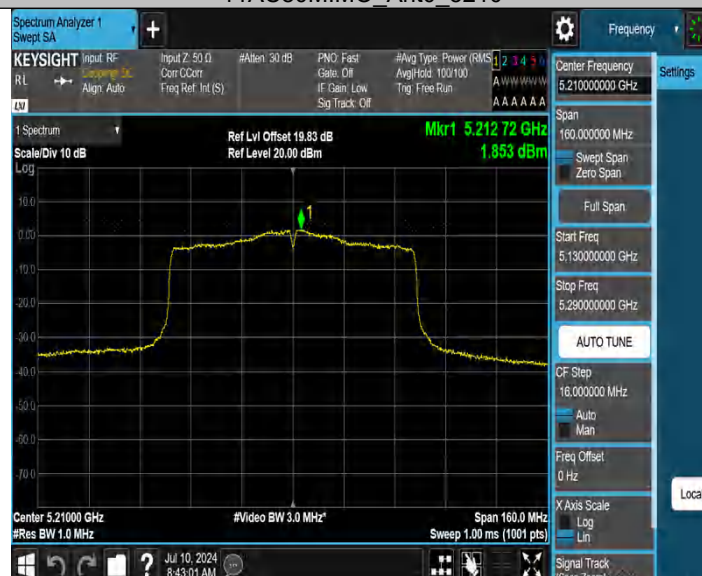
11AC40MIMO_Ant0_5230



11AC40MIMO_Ant1_5230



11AC80MIMO_Ant0_5210



11AC80MIMO_Ant1_5210



11AX20MIMO_Ant0_5180



11AX20MIMO_Ant1_5180



11AX20MIMO_Ant0_5200



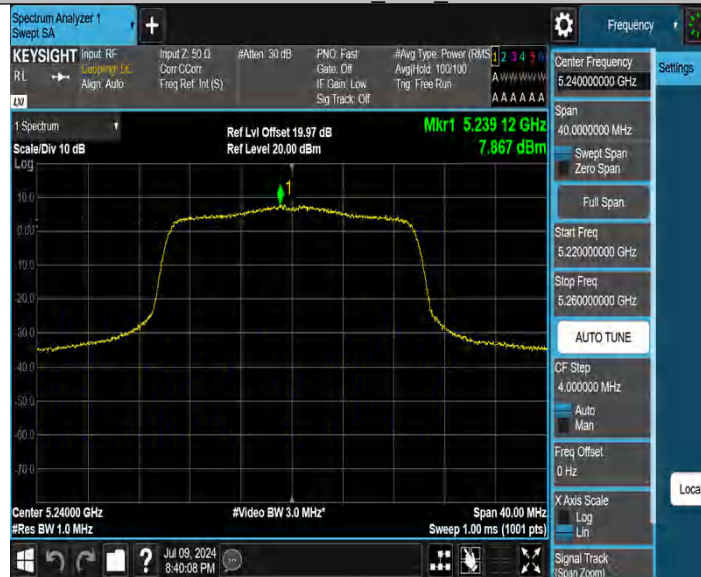
11AX20MIMO_Ant1_5200



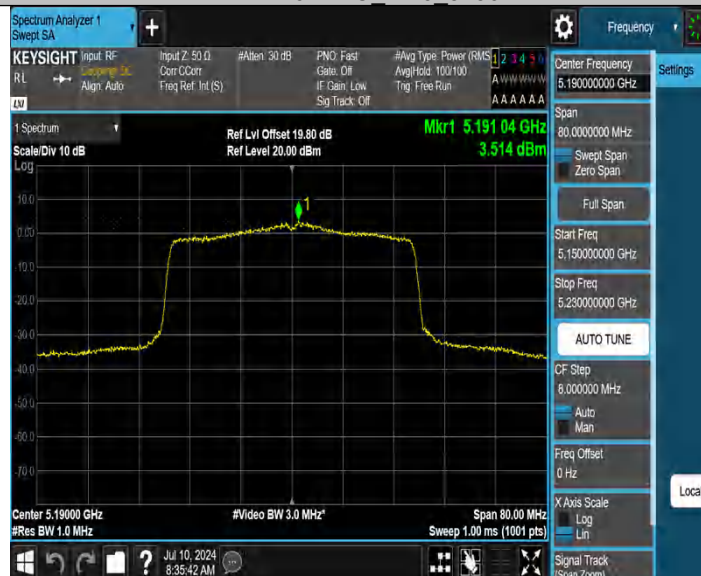
11AX20MIMO_Ant0_5240



11AX20MIMO_Ant1_5240



11AX40MIMO_Ant0_5190



11AX40MIMO_Ant1_5190



11AX40MIMO_Ant0_5230

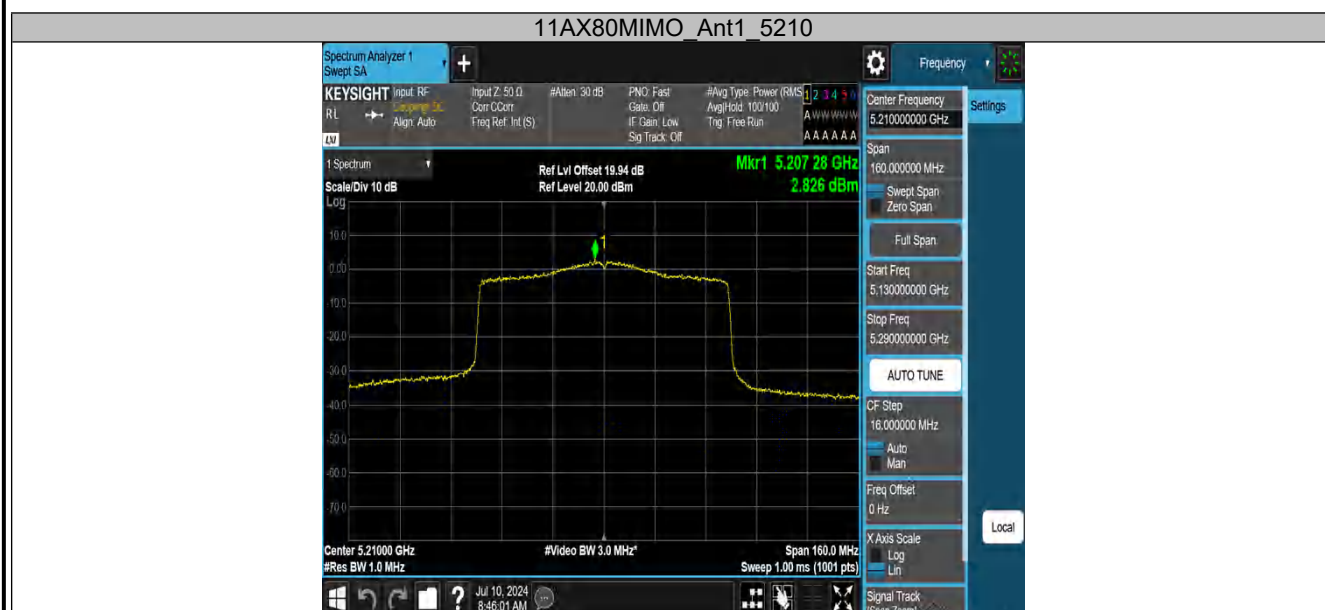


11AX40MIMO_Ant1_5230



11AX80MIMO_Ant0_5210





Appendix B.2: Test Results of Frequency Stability

Note: This testing was carried out on SISO mode and MIMO mode, but only the worst case (SISO mode ANT1) was presented in this report.

Voltage								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AX20SISO	Ant1	5180	NV	NT	30000.00	5.791506	20	PASS
		5200	NV	NT	15000.00	2.884615	20	PASS
		5240	NV	NT	15000.00	2.862595	20	PASS
11AX40SISO	Ant1	5190	NV	NT	30000.00	5.780347	20	PASS
		5230	NV	NT	0.00	0.000000	20	PASS
11AX80SISO	Ant1	5210	NV	NT	60000.00	11.516315	20	PASS

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AX20SISO	Ant1	5180	NV	0	30000.00	5.791506	20	PASS
			NV	40	15000.00	2.895753	20	PASS
		5200	NV	0	15000.00	2.884615	20	PASS
			NV	40	15000.00	2.884615	20	PASS
		5240	NV	0	15000.00	2.862595	20	PASS
			NV	40	30000.00	5.725191	20	PASS
11AX40SISO	Ant1	5190	NV	0	-30000.00	-5.780347	20	PASS
			NV	40	60000.00	11.560694	20	PASS
		5230	NV	0	0.00	0.000000	20	PASS
			NV	40	30000.00	5.736138	20	PASS
11AX80SISO	Ant1	5210	NV	0	60000.00	11.516315	20	PASS
			NV	40	60000.00	11.516315	20	PASS

Appendix B.3: Test Results of 26dB Bandwidth

Note: This testing was carried out on SISO mode and MIMO mode, but only the worst case (SISO mode ANT1) was presented in this report.

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	18.400	5170.880	5189.280	---	PASS
		5200	18.800	5190.520	5209.320	---	PASS
		5240	19.560	5229.800	5249.360	---	PASS
11N20SISO	Ant1	5180	19.640	5170.200	5189.840	---	PASS
		5200	19.960	5190.040	5210.000	---	PASS
		5240	19.640	5230.320	5249.960	---	PASS
11N40SISO	Ant1	5190	39.200	5170.320	5209.520	---	PASS
		5230	39.200	5210.480	5249.680	---	PASS
11AC20SISO	Ant1	5180	20.000	5170.080	5190.080	---	PASS
		5200	20.240	5190.240	5210.480	---	PASS
		5240	20.240	5229.640	5249.880	---	PASS
11AC40SISO	Ant1	5190	39.360	5170.560	5209.920	---	PASS
		5230	38.880	5210.480	5249.360	---	PASS
11AC80SISO	Ant1	5210	80.640	5169.680	5250.320	---	PASS
11AX20SISO	Ant1	5180	20.600	5169.520	5190.120	---	PASS
		5200	20.520	5189.880	5210.400	---	PASS
		5240	20.480	5229.760	5250.240	---	PASS
11AX40SISO	Ant1	5190	39.680	5170.160	5209.840	---	PASS
		5230	39.840	5210.000	5249.840	---	PASS
11AX80SISO	Ant1	5210	80.480	5169.840	5250.320	---	PASS

11A_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240





11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210



11AX20SISO_Ant1_5180



11AX20SISO_Ant1_5200



11AX20SISO_Ant1_5240



11AX40SISO_Ant1_5190



11AX40SISO_Ant1_5230



11AX80SISO_Ant1_5210

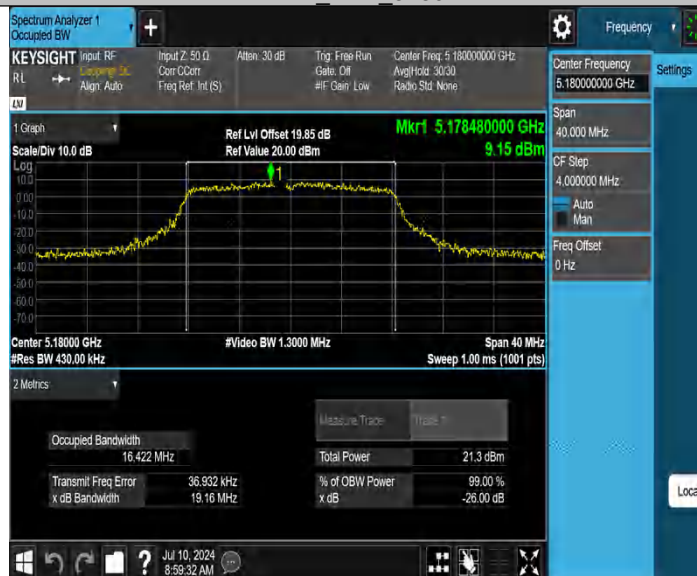


Appendix B.4: Test Results of 99% Bandwidth

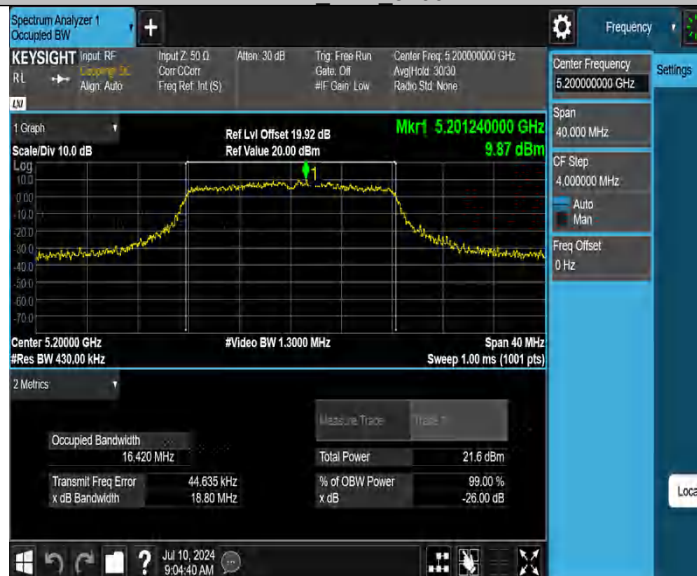
Note: This testing was carried out on SISO mode and MIMO mode, but only the worst case (SISO mode ANT1) was presented in this report.

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.422	5171.8259	5188.2479	---	PASS
		5200	16.420	5191.8346	5208.2546	---	PASS
		5240	16.363	5231.8630	5248.2260	---	PASS
11N20SISO	Ant1	5180	17.610	5171.2344	5188.8444	---	PASS
		5200	17.601	5191.2243	5208.8253	---	PASS
		5240	17.600	5231.2331	5248.8331	---	PASS
11N40SISO	Ant1	5190	36.008	5172.0230	5208.0310	---	PASS
		5230	36.003	5212.0251	5248.0281	---	PASS
11AC20SISO	Ant1	5180	17.604	5171.2370	5188.8410	---	PASS
		5200	17.599	5191.2608	5208.8598	---	PASS
		5240	17.618	5231.2370	5248.8550	---	PASS
11AC40SISO	Ant1	5190	36.006	5172.0371	5208.0431	---	PASS
		5230	36.002	5212.0112	5248.0132	---	PASS
11AC80SISO	Ant1	5210	75.151	5172.4954	5247.6464	---	PASS
11AX20SISO	Ant1	5180	18.862	5170.5904	5189.4524	---	PASS
		5200	18.901	5190.5607	5209.4617	---	PASS
		5240	18.888	5230.5585	5249.4465	---	PASS
11AX40SISO	Ant1	5190	37.612	5171.2676	5208.8796	---	PASS
		5230	37.622	5211.1742	5248.7962	---	PASS
11AX80SISO	Ant1	5210	76.564	5171.7185	5248.2825	---	PASS

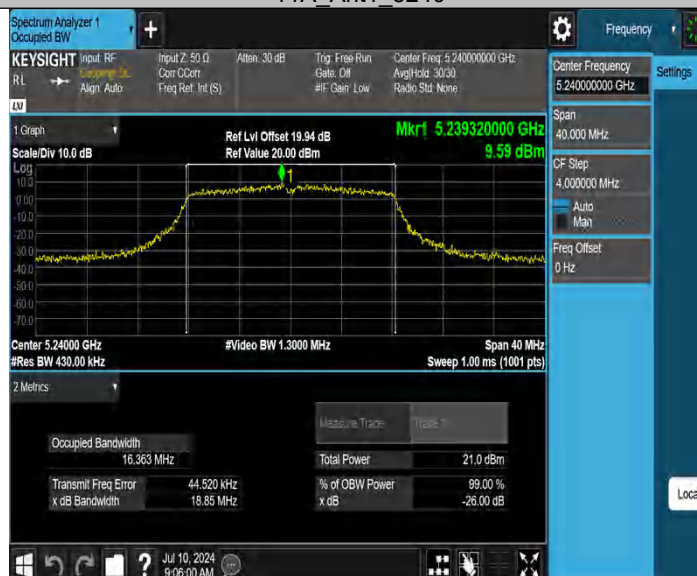
11A_Ant1_5180



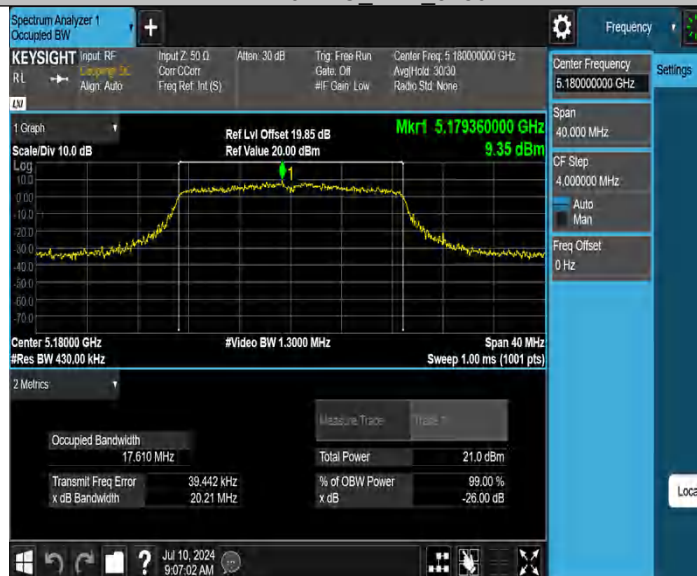
11A_Ant1_5200



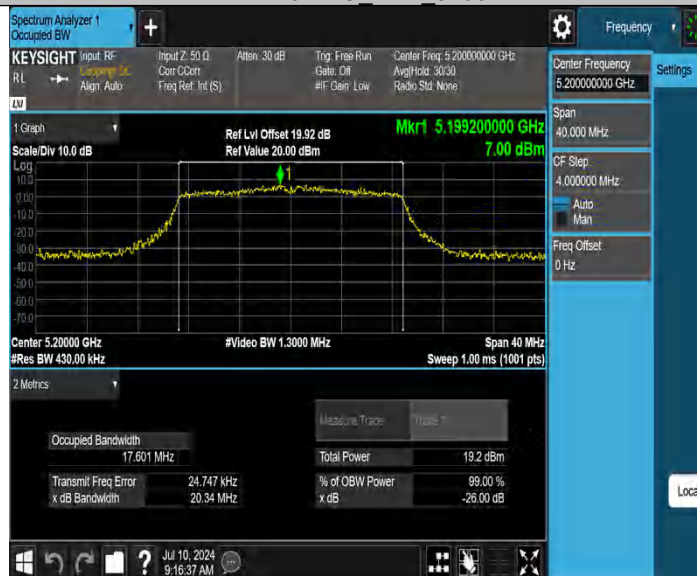
11A_Ant1_5240



11N20SISO Ant1 5180



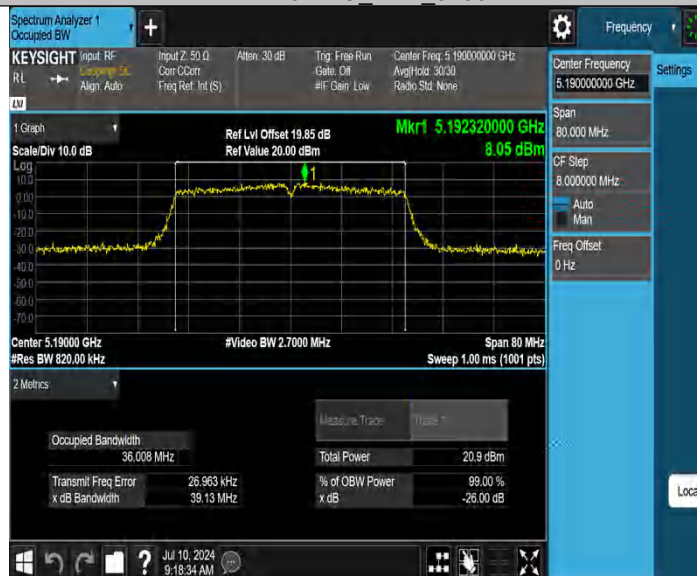
11N20SISO Ant1 5200



11N20SISO Ant1 5240



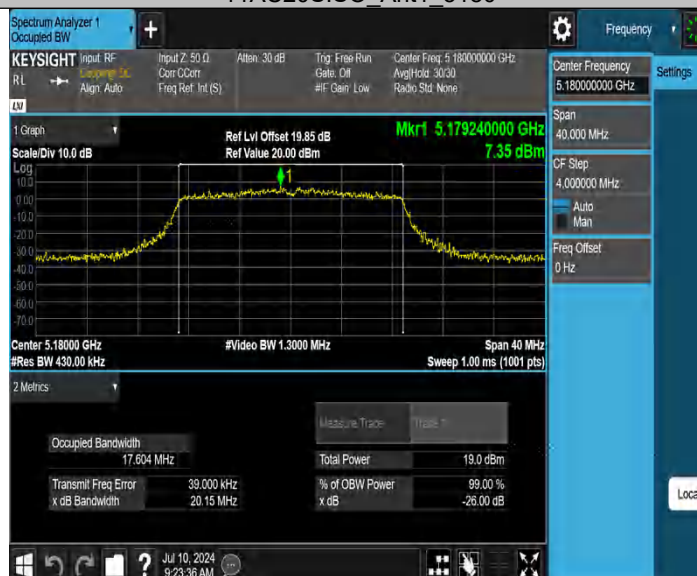
11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



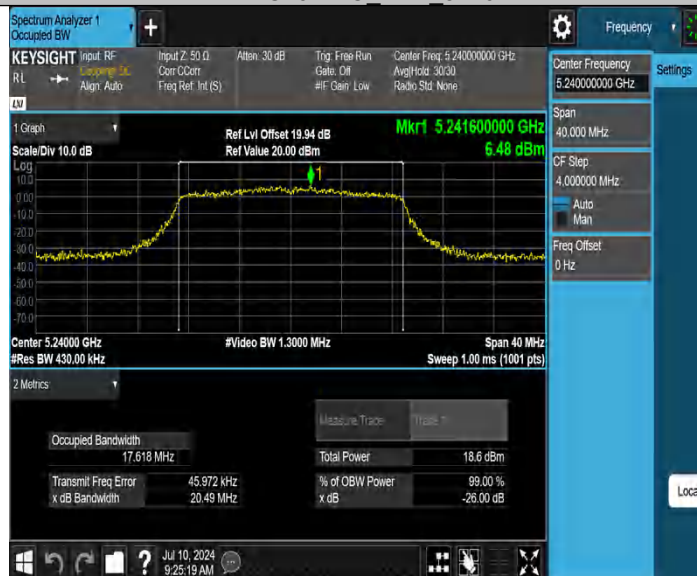
11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



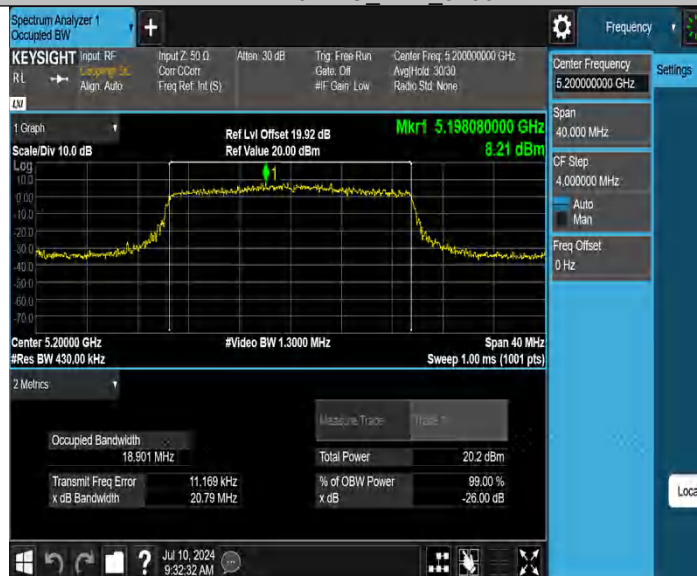
11AC80SISO_Ant1_5210



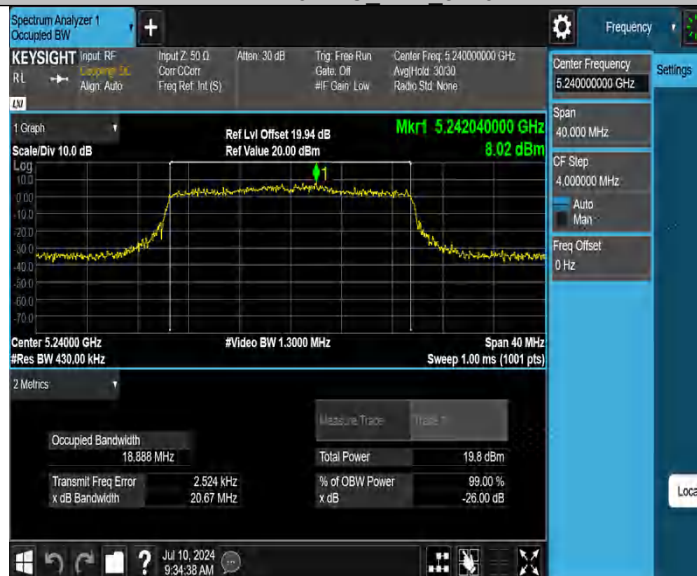
11AX20SISO_Ant1_5180



11AX20SISO_Ant1_5200



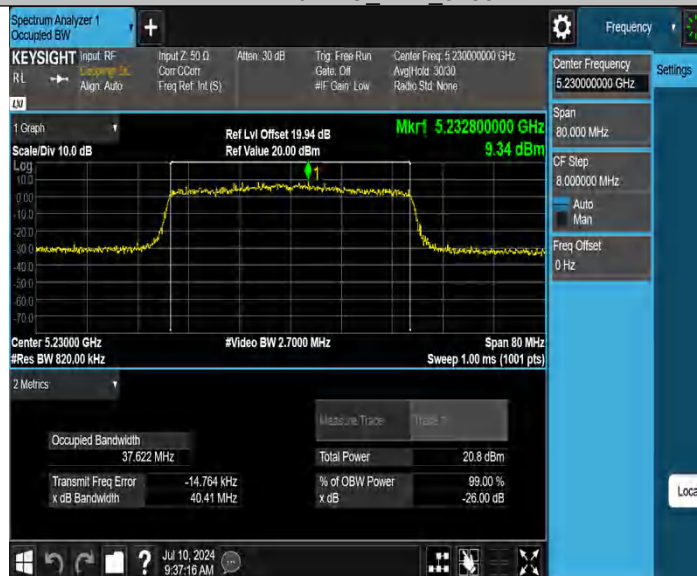
11AX20SISO_Ant1_5240



11AX40SISO_Ant1_5190



11AX40SISO_Ant1_5230



11AX80SISO_Ant1_5210



Appendix B.5: Test Results of Radiated Spurious Emissions

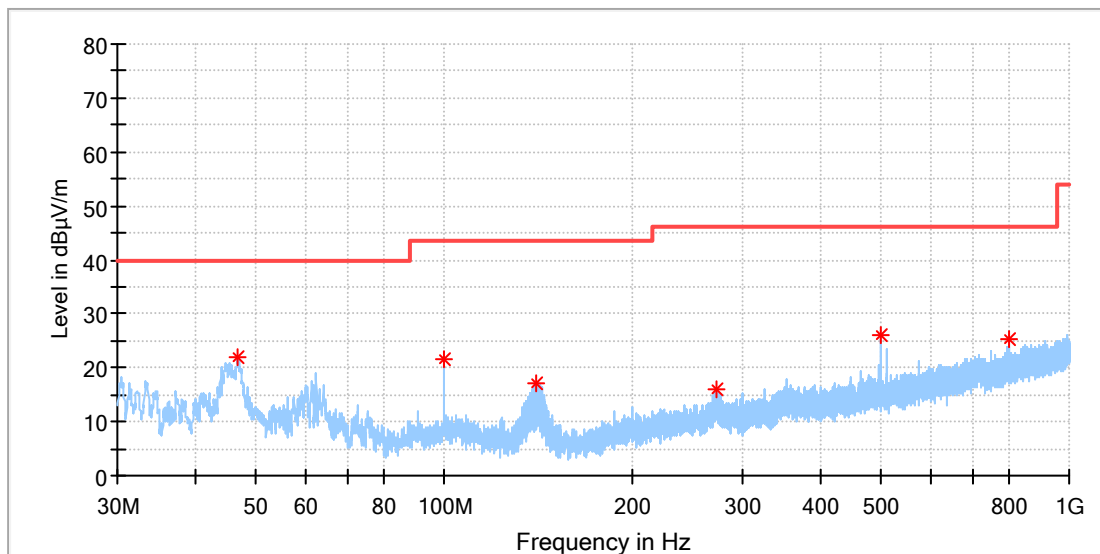
Note:

- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

30MHz - 1GHz (Worst case)

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11a_Ch40
Order No/Sample No:	168484699/A003743309-003
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

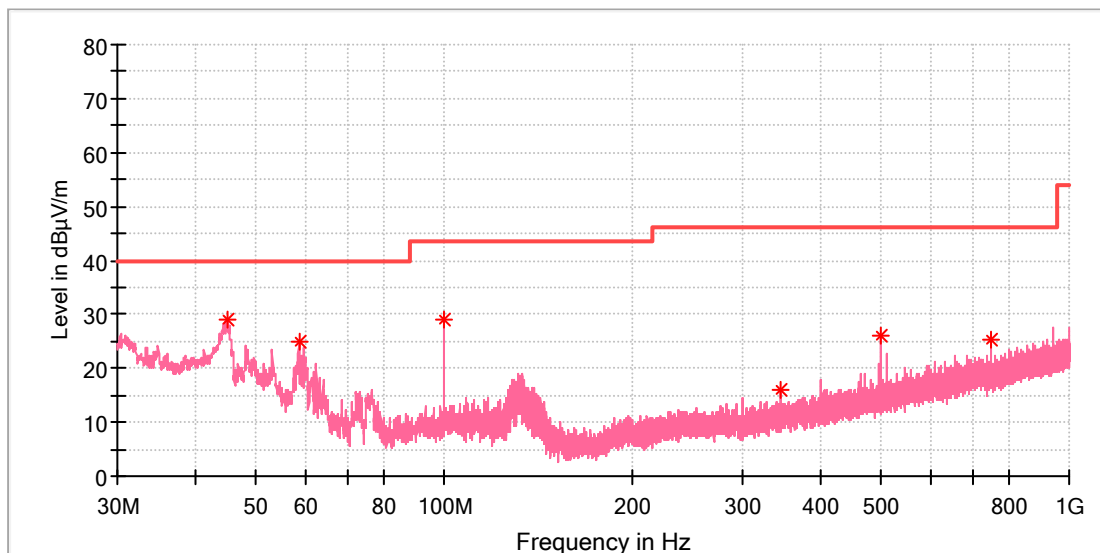
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
46.751154	22.13	40.00	17.87	100.0	H	171.0	-18.9
99.989231	21.59	43.50	21.91	100.0	H	331.0	-19.3
140.654615	17.17	43.50	26.33	100.0	H	43.0	-22.6
272.313462	15.85	46.00	30.15	100.0	H	0.0	-17.2
500.002308	25.94	46.00	20.06	100.0	H	0.0	-12.2
799.993462	25.28	46.00	20.72	100.0	H	111.0	-6.8

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11a_Ch40
Order No/Sample No:	168484699/A003743309-003
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
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)
44.885769	29.09	40.00	10.91	100.0	V	98.0	-19.2
58.577692	25.00	40.00	15.00	100.0	V	294.0	-19.1
99.989231	28.95	43.50	14.55	100.0	V	188.0	-19.3
345.809615	15.84	46.00	30.16	100.0	V	143.0	-15.3
500.002308	25.89	46.00	20.11	100.0	V	294.0	-12.2
750.038462	25.31	46.00	20.69	100.0	V	135.0	-7.6

Final Result

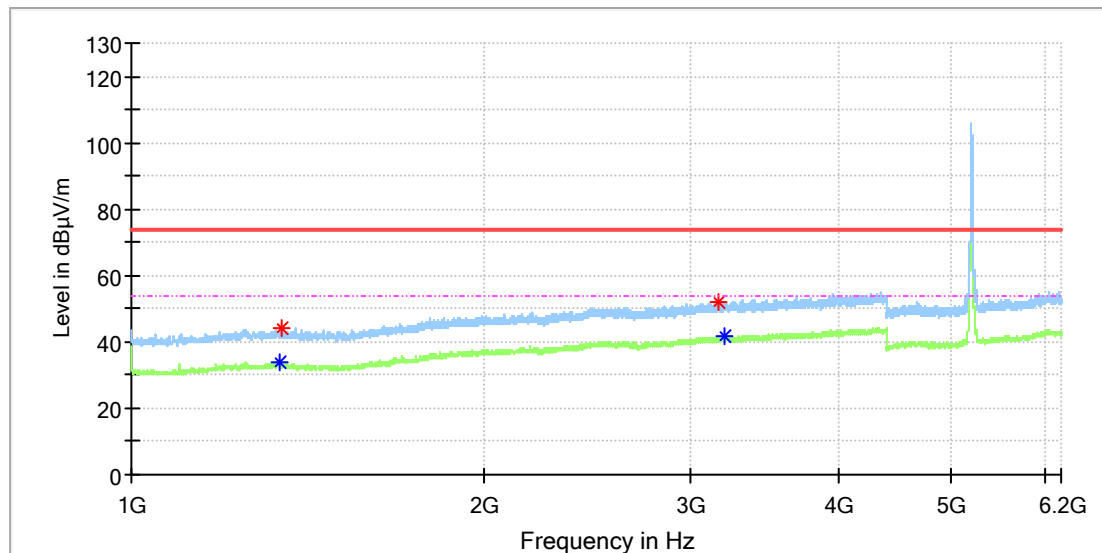
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

1GHz - 18GHz

Note: The highest waveform in the figure is 5GHz Wi-Fi Fundamental.

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11a_Ch40
Order No/Sample No:	168484699/A003743309-003
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

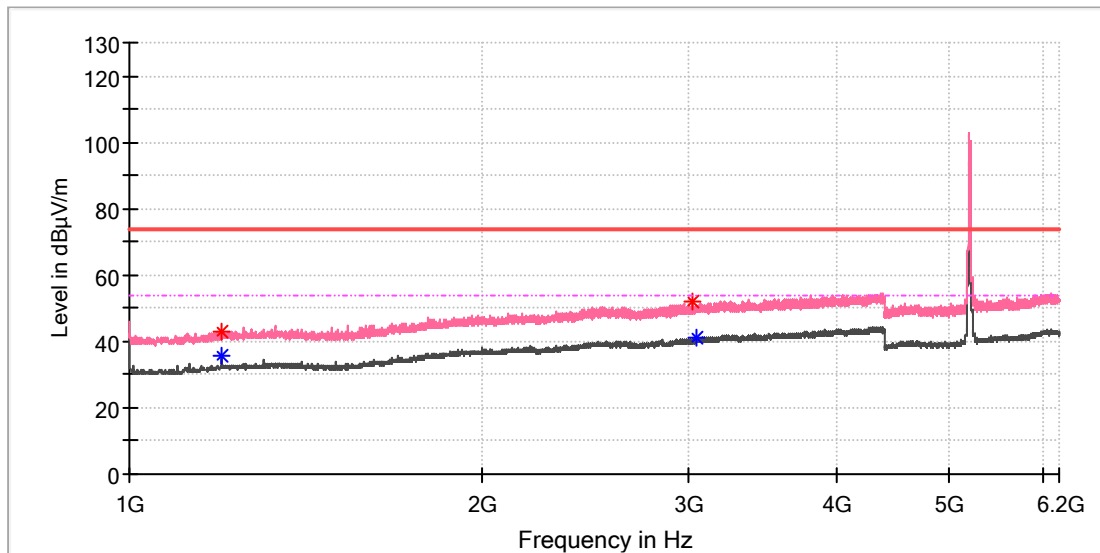
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1337.000000	---	33.59	54.00	20.41	150.0	H	0.0	2.1
1343.000000	44.12	---	74.00	29.88	150.0	H	290.0	2.1
3165.000000	51.84	---	74.00	22.16	150.0	H	99.0	8.6
3196.500000	---	41.74	54.00	12.26	150.0	H	13.0	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:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11a_Ch40
Order No/Sample No:	168484699/A003743309-003
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

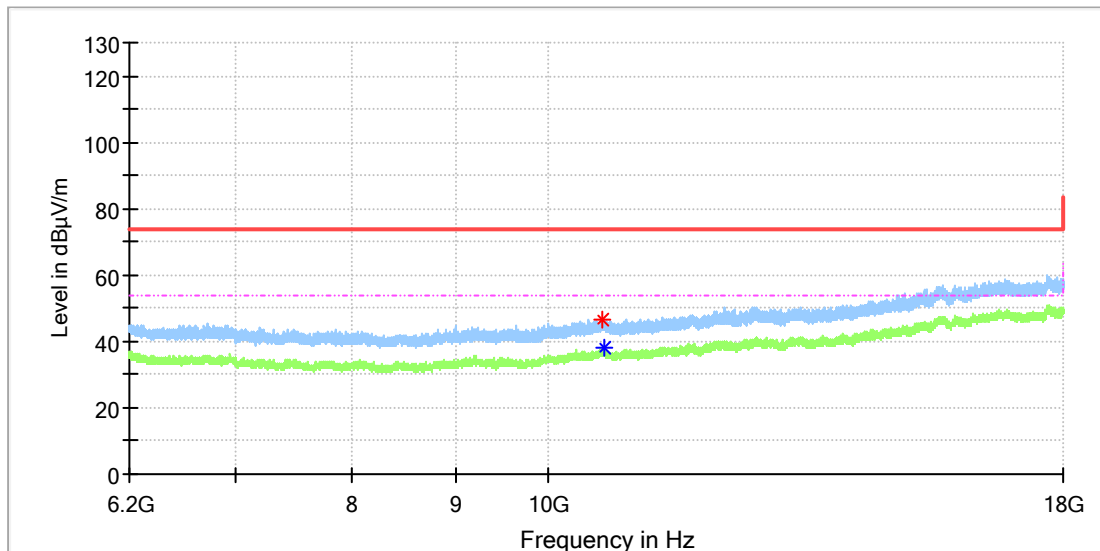
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1199.500000	42.92	---	74.00	31.08	150.0	V	84.0	1.1
1200.000000	---	35.43	54.00	18.57	150.0	V	340.0	1.1
3022.000000	51.80	---	74.00	22.20	150.0	V	92.0	8.5
3047.000000	---	41.20	54.00	12.81	150.0	V	255.0	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:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11a_Ch40
Order No/Sample No:	168484699/A003743309-003
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

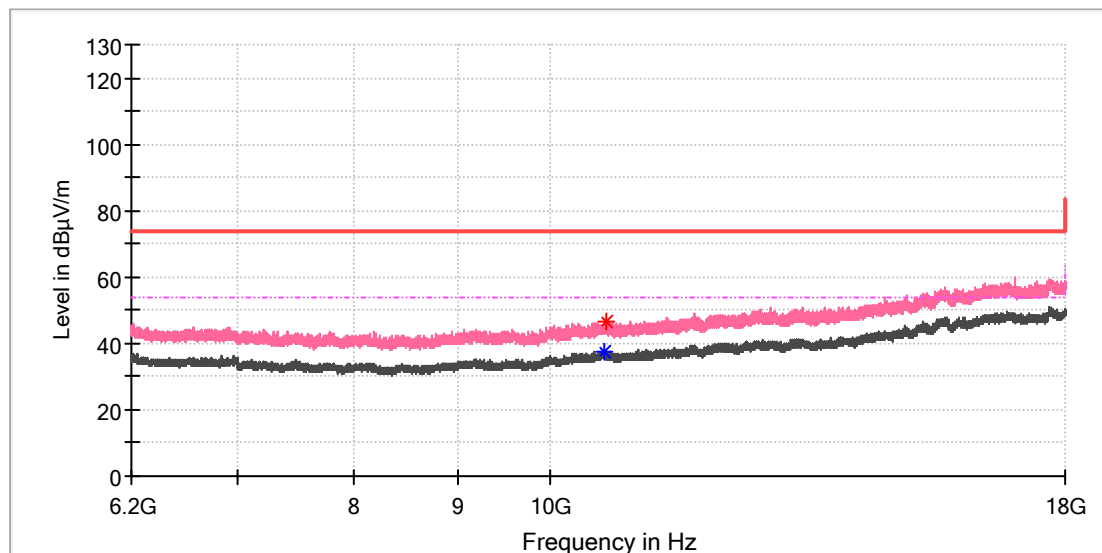
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10635.816667	46.53	---	74.00	27.47	150.0	H	256.0	12.0
10657.450000	---	38.02	54.00	15.98	150.0	H	158.0	12.0

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11a_Ch40
Order No/Sample No:	168484699/A003743309-003
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

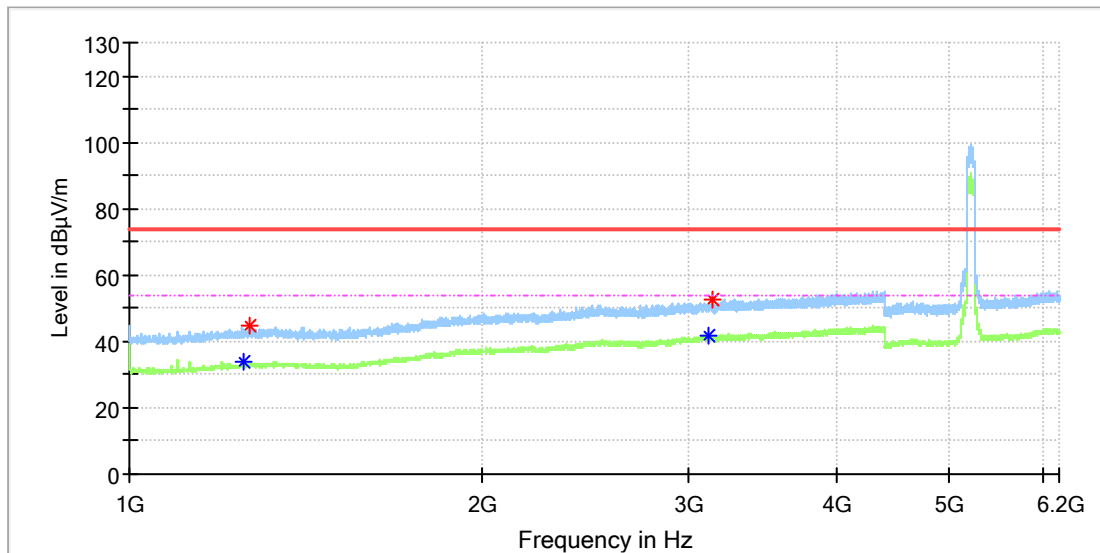
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10636.800000	---	37.62	54.00	16.38	150.0	V	305.0	12.0
10672.691667	46.51	---	74.00	27.49	150.0	V	194.0	11.9

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ac80_Ch42
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

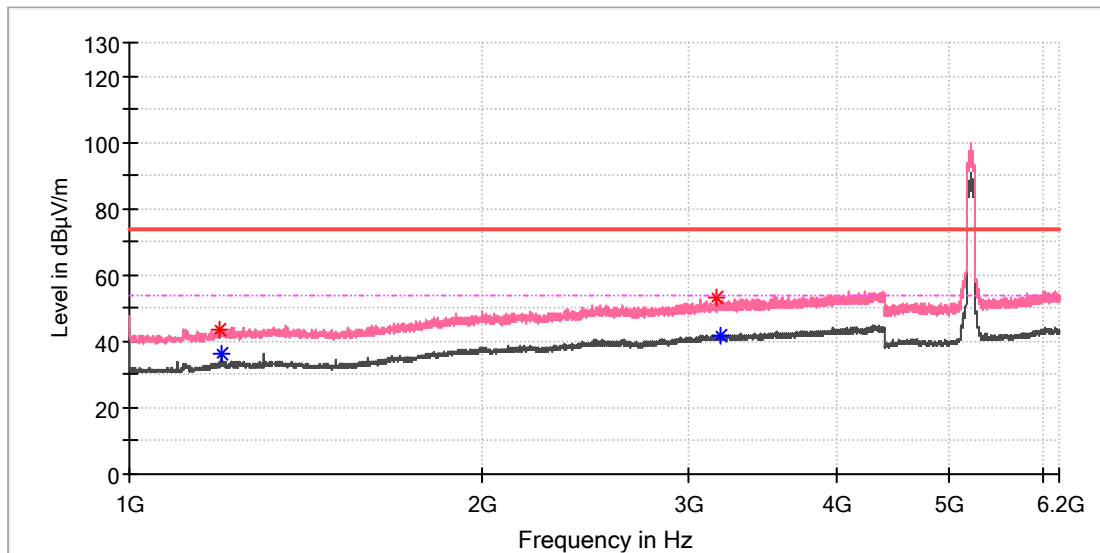
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1249.500000	---	34.11	54.00	19.89	150.0	H	117.0	1.9
1265.500000	44.92	---	74.00	29.08	150.0	H	185.0	1.9
3111.500000	---	41.82	54.00	12.18	150.0	H	27.0	8.6
3136.000000	52.43	---	74.00	21.57	150.0	H	241.0	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:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ac80_Ch42
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

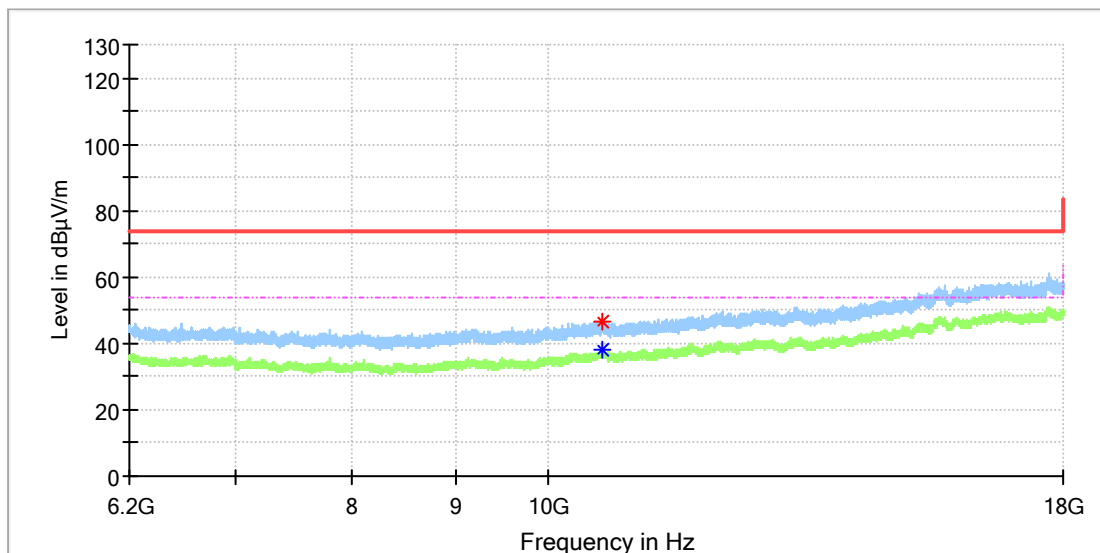
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1194.500000	43.59	---	74.00	30.41	150.0	V	277.0	1.1
1200.000000	---	36.43	54.00	17.57	150.0	V	165.0	1.1
3166.000000	53.33	---	74.00	20.67	150.0	V	74.0	8.6
3188.000000	---	41.89	54.00	12.11	150.0	V	232.0	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:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ac80_Ch42
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

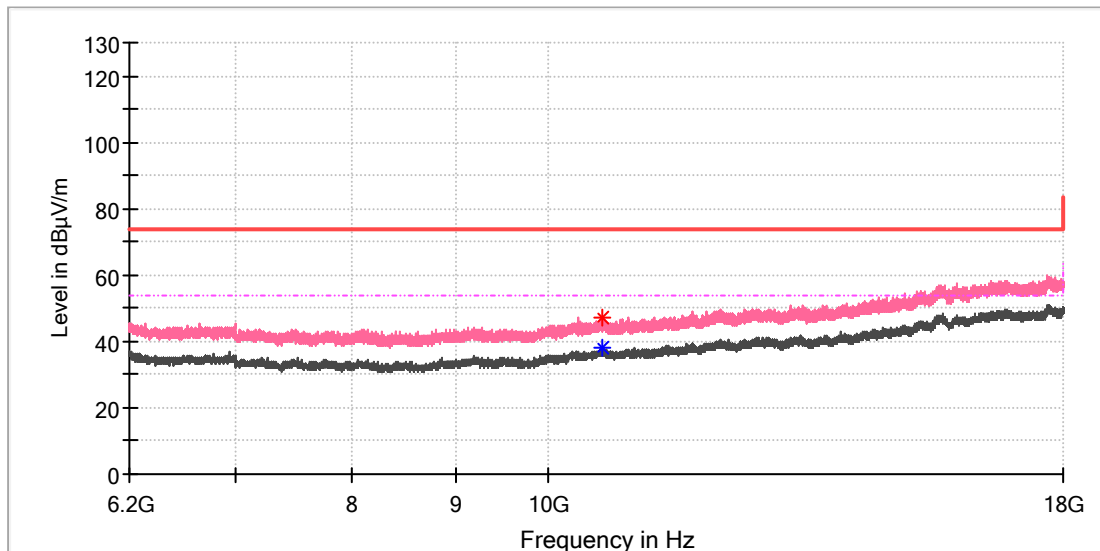
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10633.358333	---	37.89	54.00	16.11	150.0	H	58.0	12.0
10634.833333	46.63	---	74.00	27.37	150.0	H	156.0	12.0

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ac80_Ch42
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

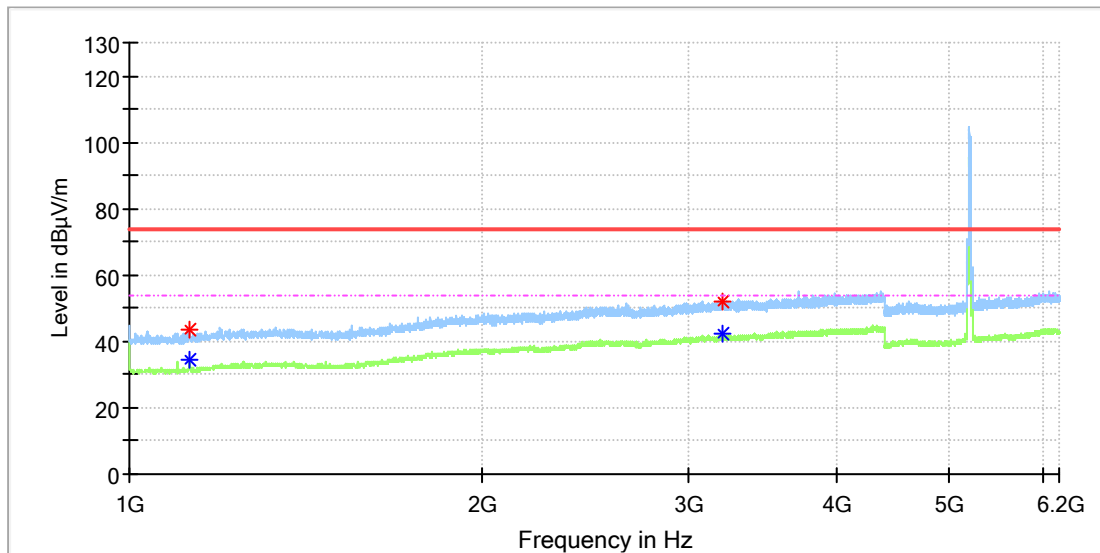
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10627.950000	---	38.26	54.00	15.74	150.0	V	88.0	12.0
10633.358333	47.06	---	74.00	26.94	150.0	V	111.0	12.0

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ax20_Ch40
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

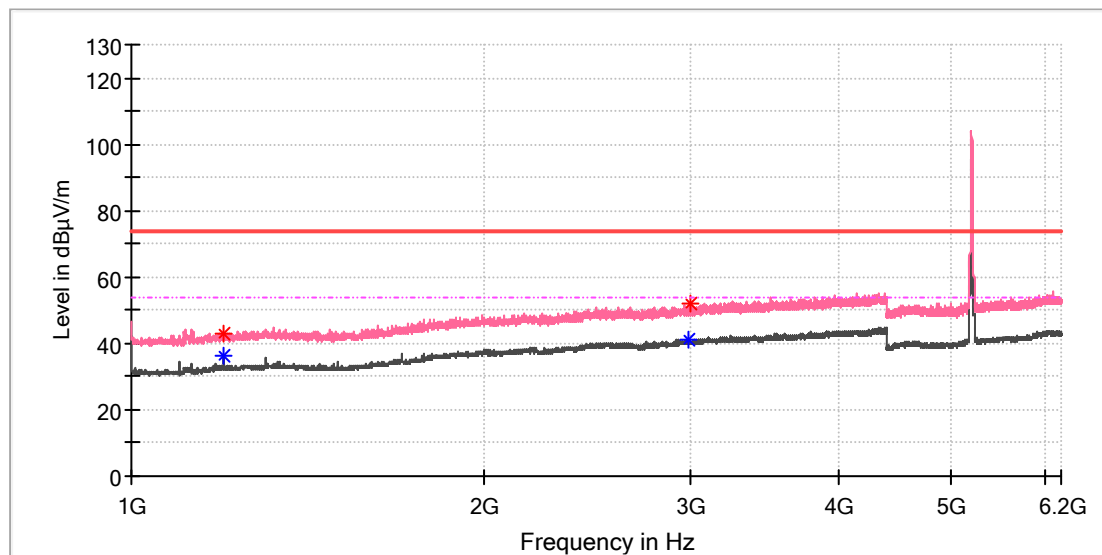
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1125.000000	43.67	---	74.00	30.33	150.0	H	186.0	0.3
1125.000000	---	34.33	54.00	19.67	150.0	H	186.0	0.3
3205.000000	---	42.19	54.00	11.81	150.0	H	158.0	8.6
3206.500000	52.02	---	74.00	21.98	150.0	H	0.0	8.6

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ax20_Ch40
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

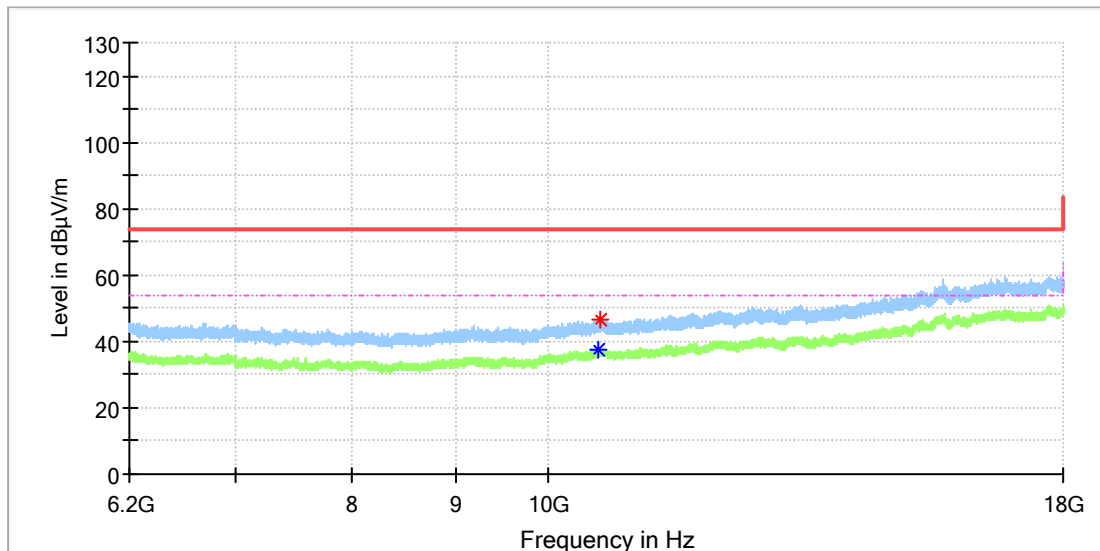
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1199.500000	43.23	---	74.00	30.77	150.0	V	55.0	1.1
1199.500000	---	35.98	54.00	18.02	150.0	V	55.0	1.1
2989.500000	---	41.30	54.00	12.70	150.0	V	236.0	8.5
2994.500000	52.01	---	74.00	21.99	150.0	V	60.0	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:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ax20_Ch40
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

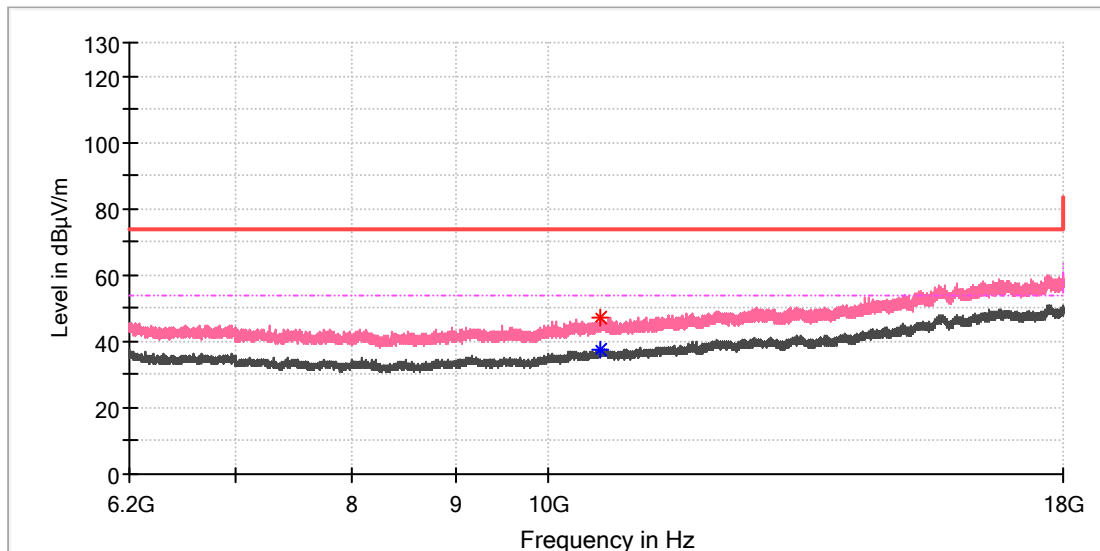
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10588.125000	---	37.42	54.00	16.58	150.0	H	249.0	12.0
10605.333333	46.28	---	74.00	27.72	150.0	H	316.0	12.1

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ax20_Ch40
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

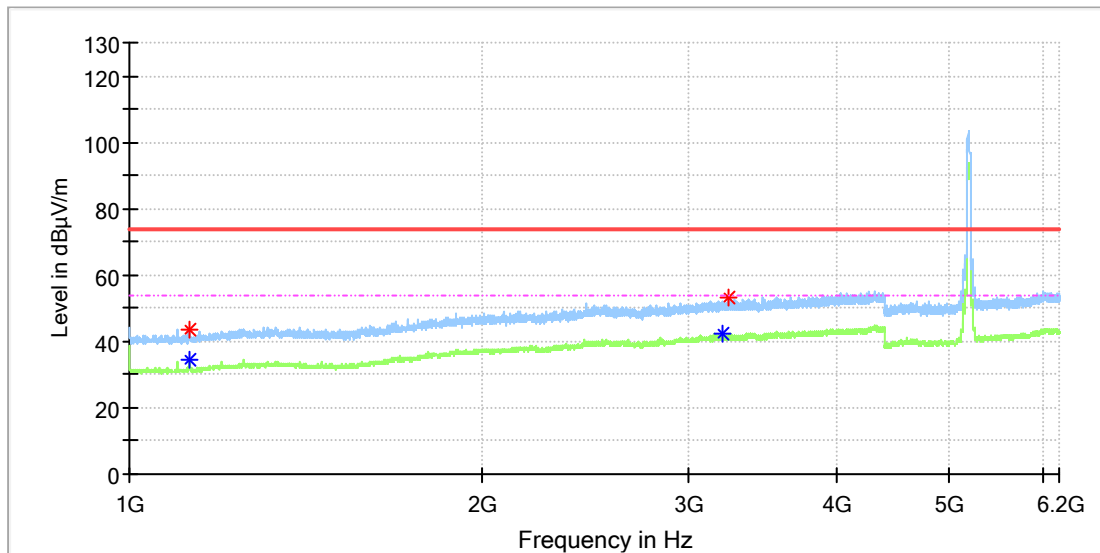
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10609.266667	46.93	---	74.00	27.07	150.0	V	21.0	12.1
10624.508333	---	37.40	54.00	16.60	150.0	V	32.0	12.0

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ax40_Ch38
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

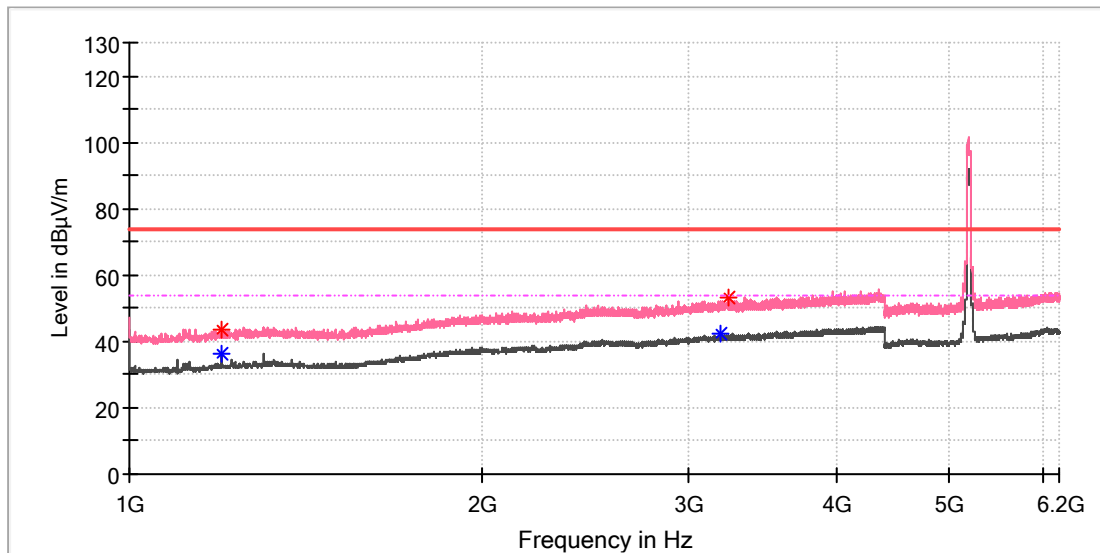
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1124.500000	43.53	---	74.00	30.47	150.0	H	159.0	0.3
1125.000000	---	34.25	54.00	19.75	150.0	H	277.0	0.3
3198.500000	---	42.06	54.00	11.94	150.0	H	233.0	8.6
3244.000000	52.95	---	74.00	21.05	150.0	H	306.0	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:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ax40_Ch38
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

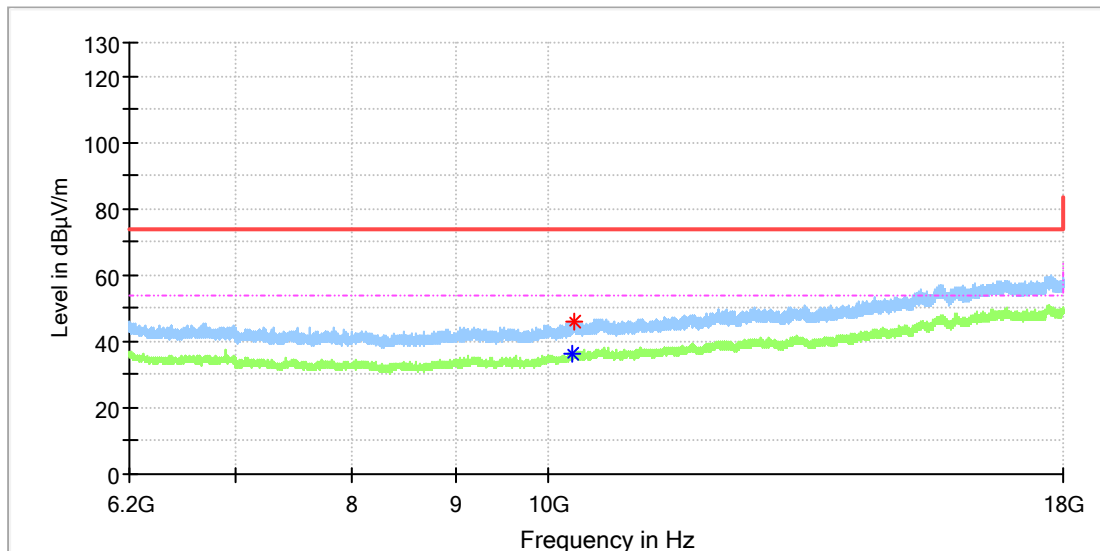
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1199.500000	---	36.46	54.00	17.54	150.0	V	163.0	1.1
1200.000000	43.47	---	74.00	30.53	150.0	V	185.0	1.1
3191.000000	---	42.08	54.00	11.92	150.0	V	281.0	8.6
3237.500000	52.94	---	74.00	21.06	150.0	V	358.0	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:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ax40_Ch38
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

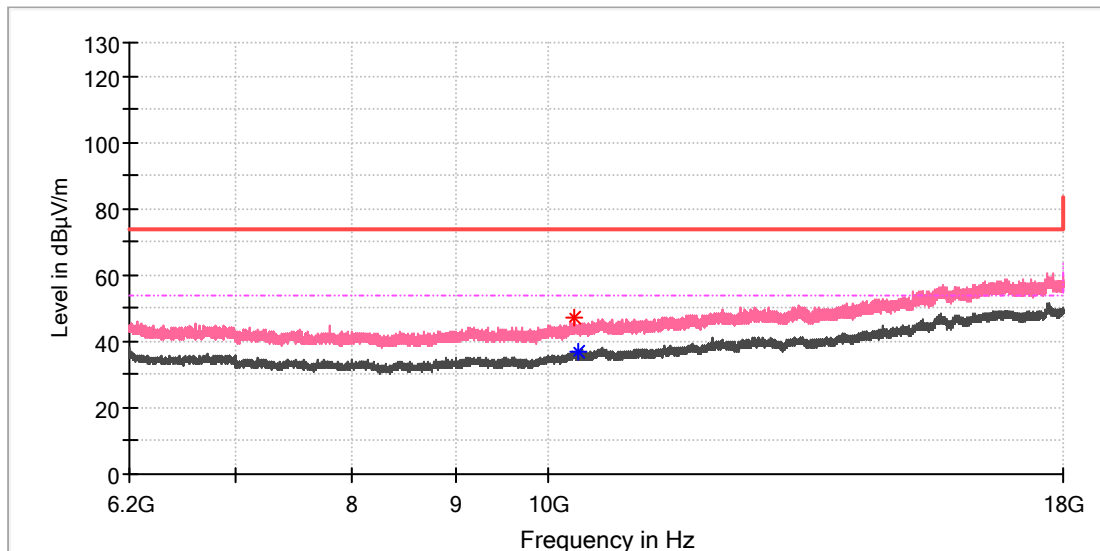
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10284.275000	---	36.55	54.00	17.45	150.0	H	88.0	11.5
10292.633333	45.65	---	74.00	28.35	150.0	H	41.0	11.6

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ax40_Ch38
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
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)
10306.891667	46.97	---	74.00	27.03	150.0	V	274.0	11.6
10352.616667	---	37.08	54.00	16.92	150.0	V	351.0	11.8

Final Result

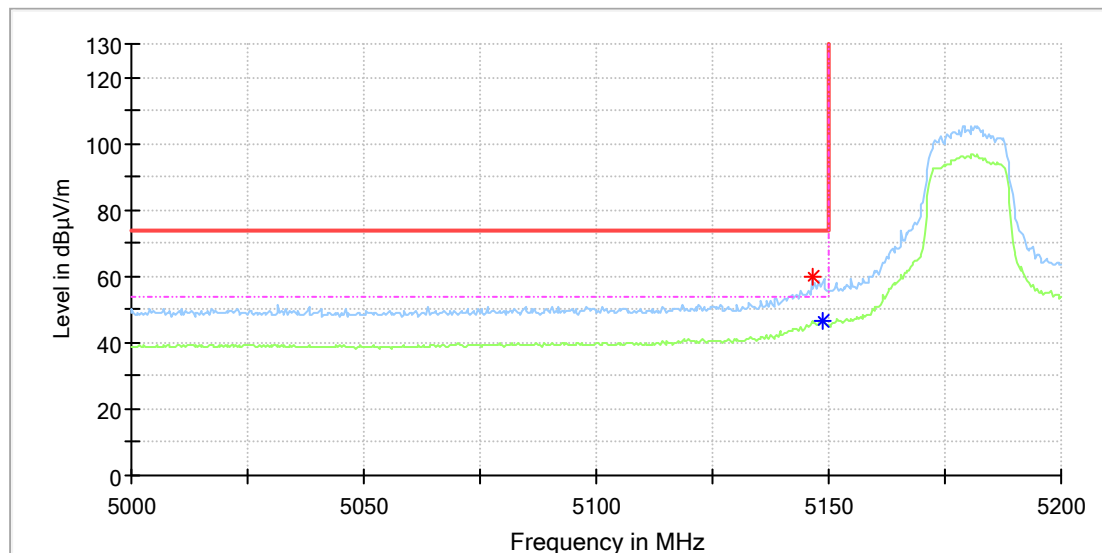
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

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

Wi-Fi 802.11 a mode

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11a_Ch36
Order No/Sample No:	168484699/A003743309-003
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

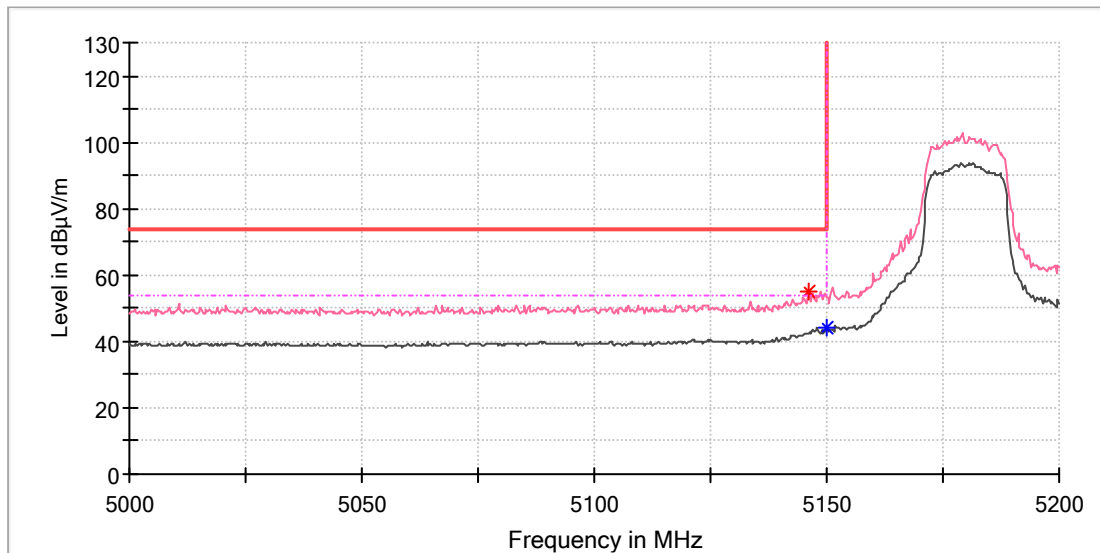
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5146.350000	59.62	---	74.00	14.38	150.0	H	114.0	12.4
5148.644445	---	46.55	54.00	7.45	150.0	H	122.0	12.4

Final_Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11a_Ch36
Order No/Sample No:	168484699/A003743309-003
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

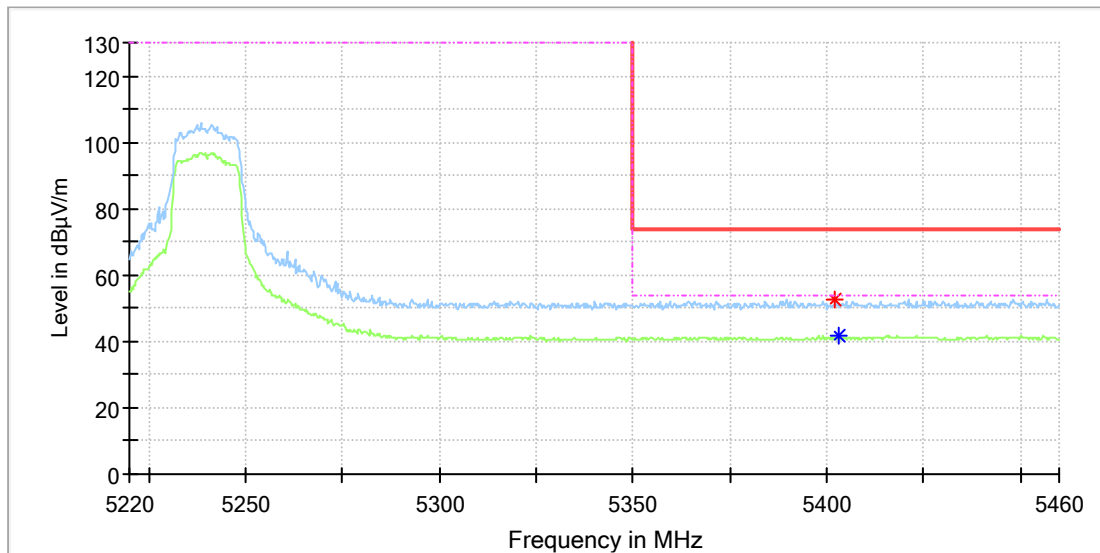
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5146.022222	55.31	---	74.00	18.69	150.0	V	94.0	12.4
5149.955556	---	44.11	54.00	9.89	150.0	V	333.0	12.4

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11a_Ch48
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

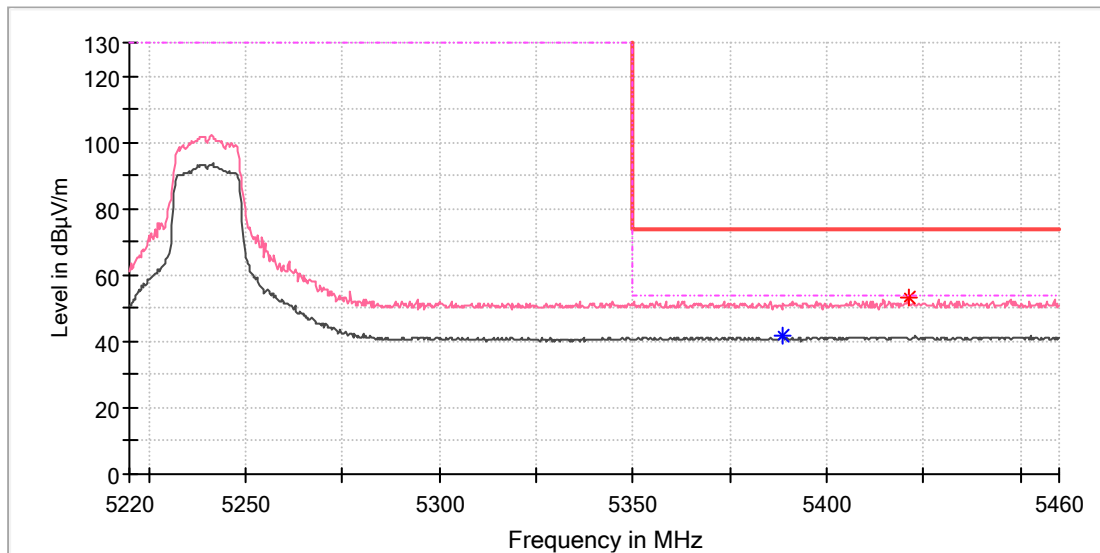
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5402.288889	52.77	---	74.00	21.23	150.0	H	304.0	13.5
5402.877778	---	41.42	54.00	12.58	150.0	H	287.0	13.5

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11a_Ch48
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
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)
5388.450000	---	41.77	54.00	12.23	150.0	V	42.0	13.4
5421.133333	52.95	---	74.00	21.05	150.0	V	4.0	13.5

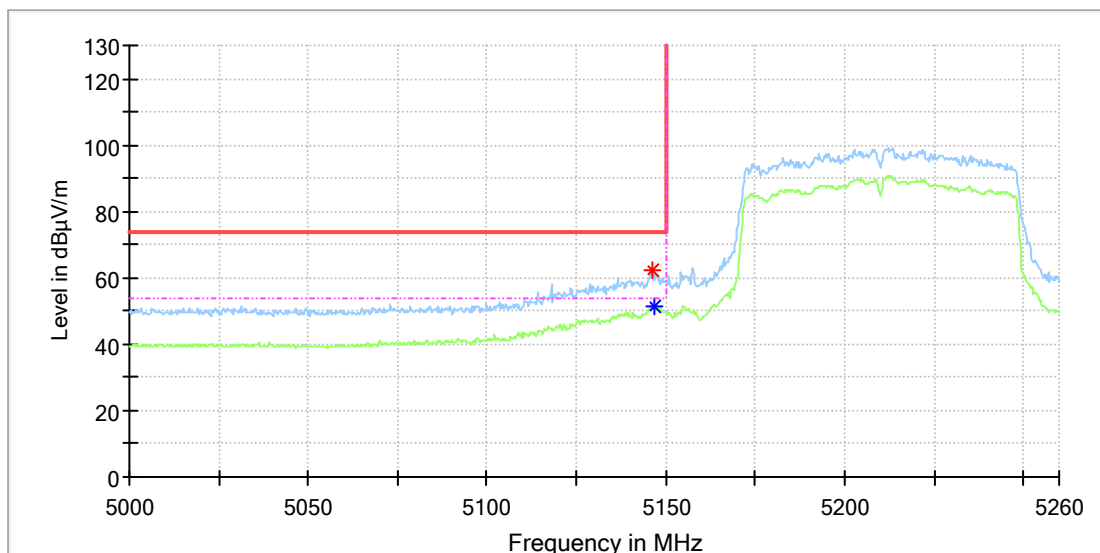
Final Result

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

Wi-Fi 802.11 ac(VHT80) mode

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ac80_Ch42
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

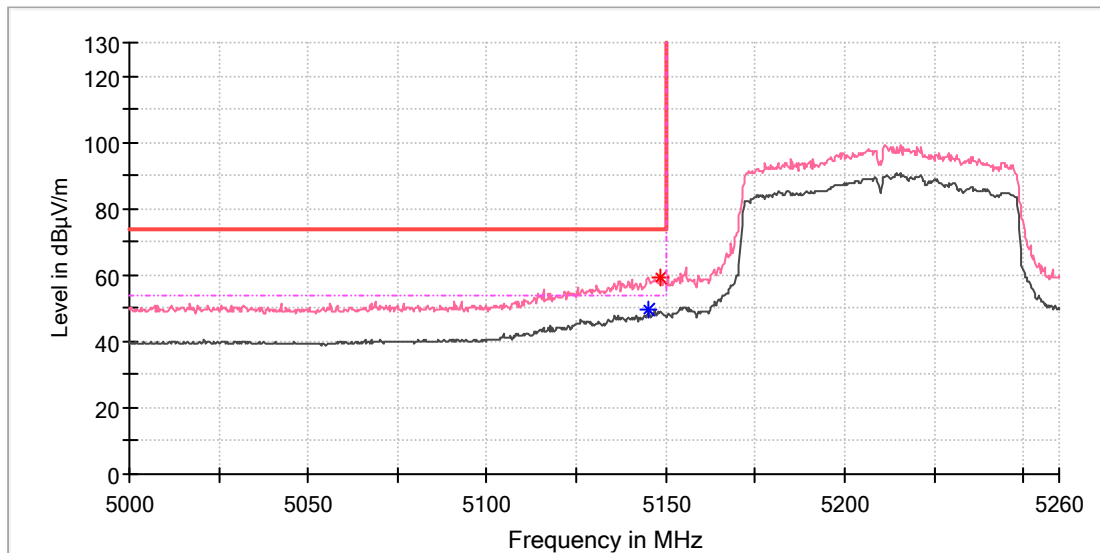
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5146.022222	62.07	---	74.00	11.93	150.0	H	110.0	12.4
5147.005556	---	51.34	54.00	2.66	150.0	H	115.0	12.4

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ac80_Ch42
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
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)
5145.366667	---	49.67	54.00	4.33	150.0	V	115.0	12.4
5148.316667	59.46	---	74.00	14.54	150.0	V	115.0	12.4

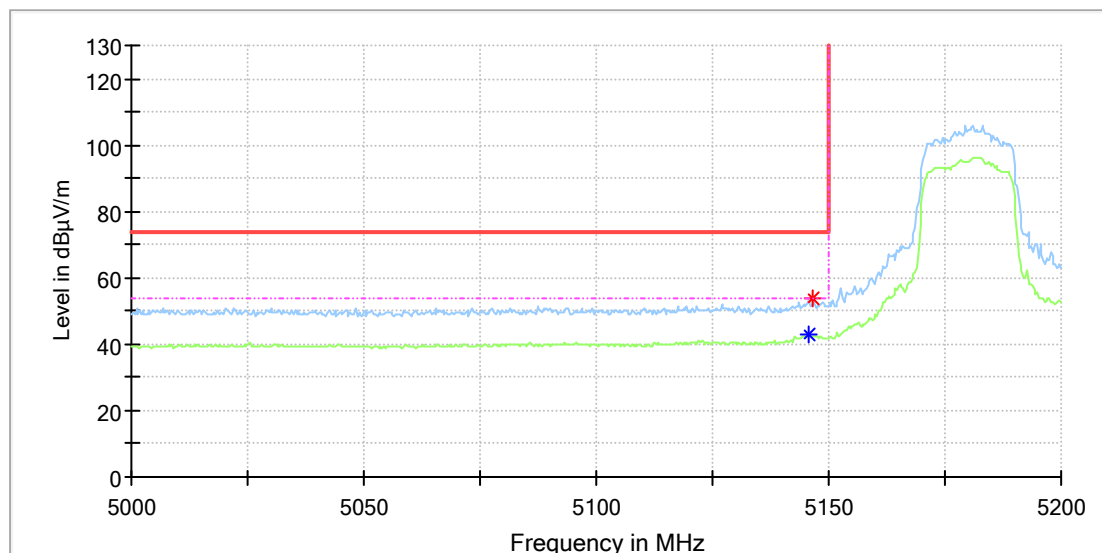
Final Result

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

Wi-Fi 802.11 ax(HE20) mode

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ax20_Ch36
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

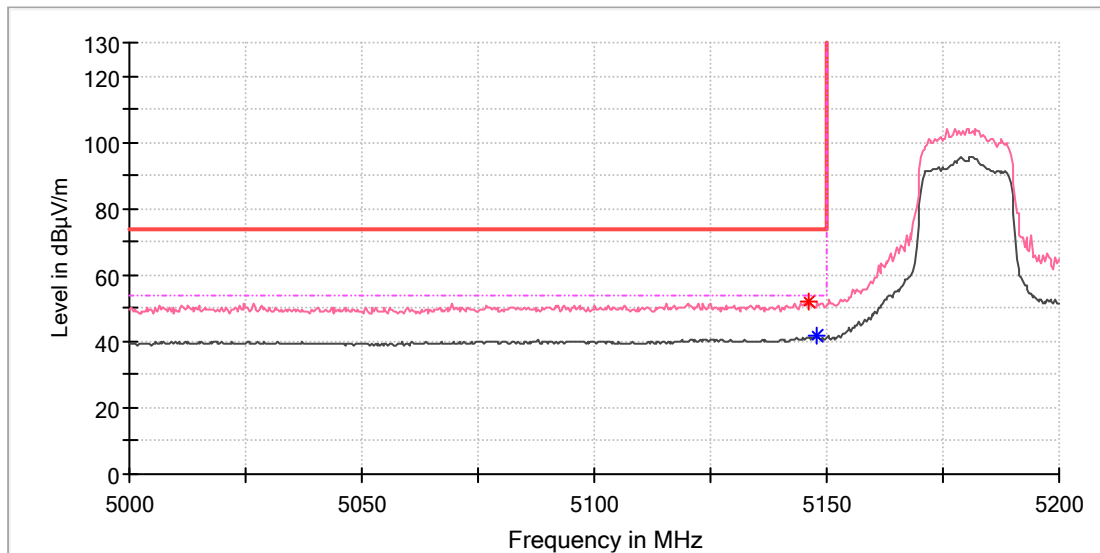
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5145.694445	---	42.94	54.00	11.06	150.0	H	109.0	12.4
5146.677778	53.59	---	74.00	20.41	150.0	H	109.0	12.4

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ax20_Ch36
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

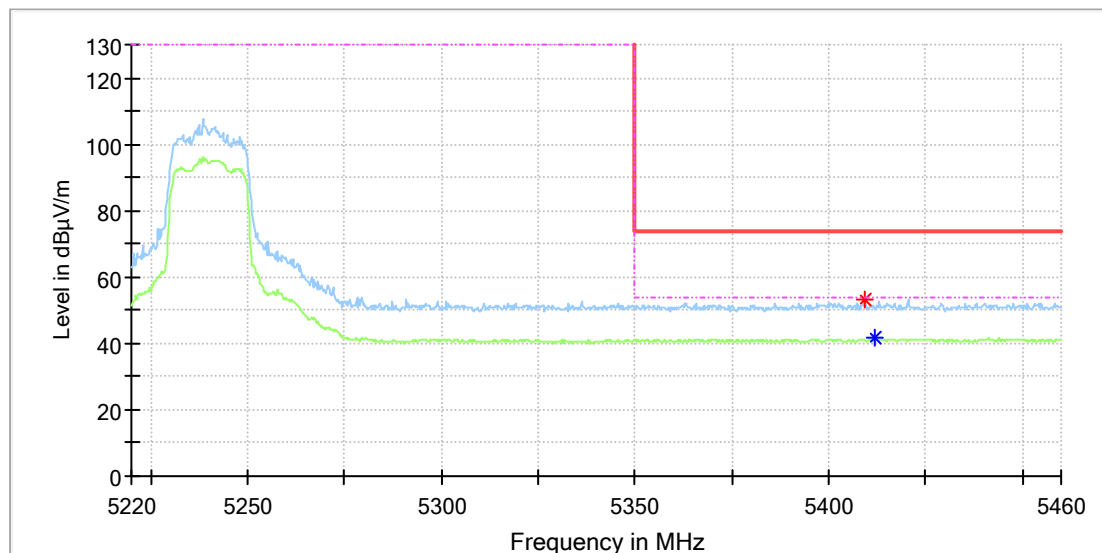
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5146.022222	52.10	---	74.00	21.90	150.0	V	26.0	12.4
5147.661111	---	41.48	54.00	12.52	150.0	V	60.0	12.4

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ax20_Ch48
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

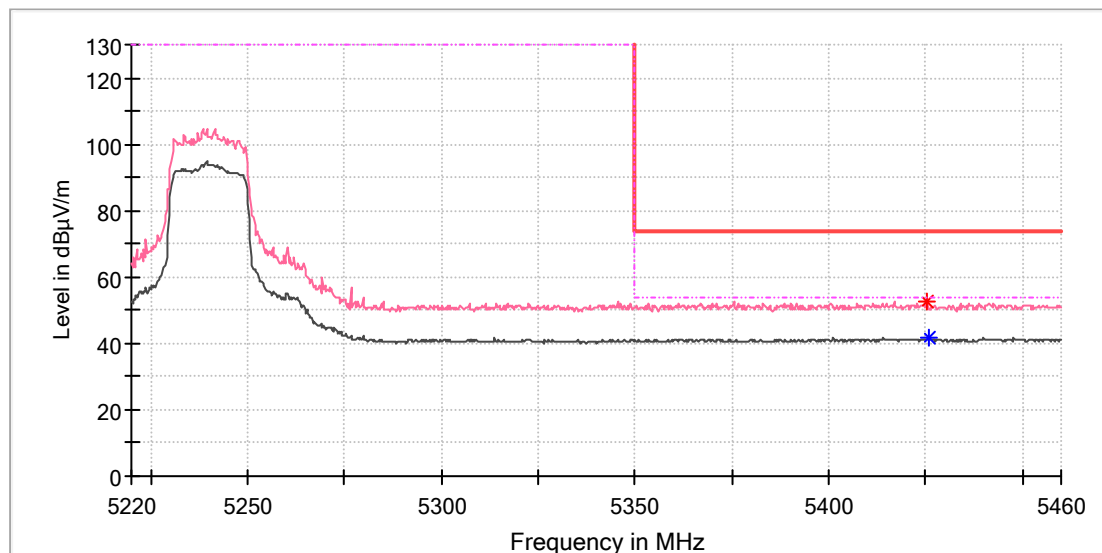
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5409.061111	53.20	---	74.00	20.80	150.0	H	106.0	13.5
5411.711111	---	41.53	54.00	12.47	150.0	H	112.0	13.5

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ax20_Ch48
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
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)
5425.550000	52.77	---	74.00	21.23	150.0	V	178.0	13.5
5425.844444	---	41.50	54.00	12.50	150.0	V	211.0	13.5

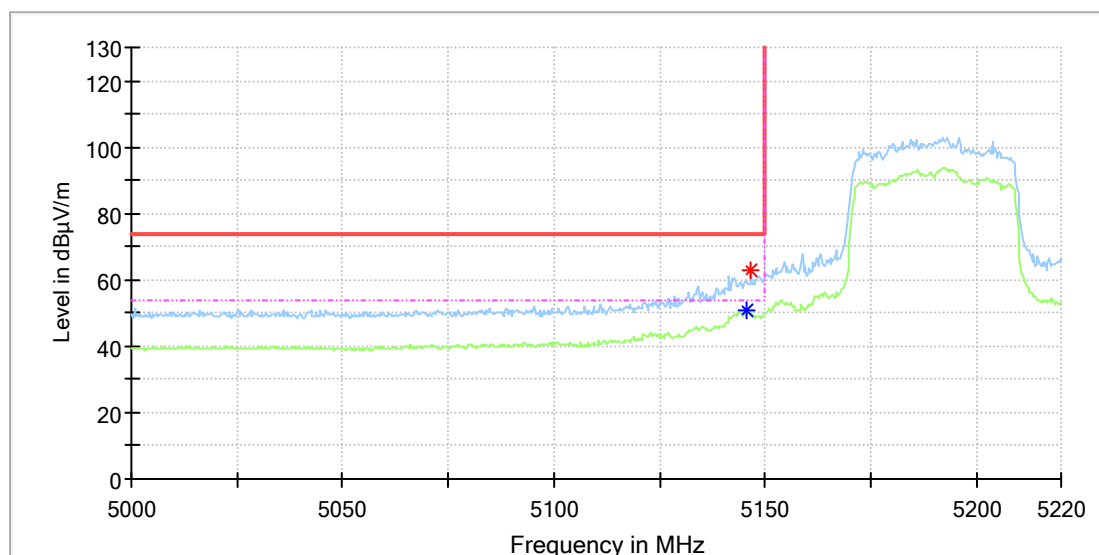
Final Result

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

Wi-Fi 802.11 ax(HE40) mode

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ax40_Ch38
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

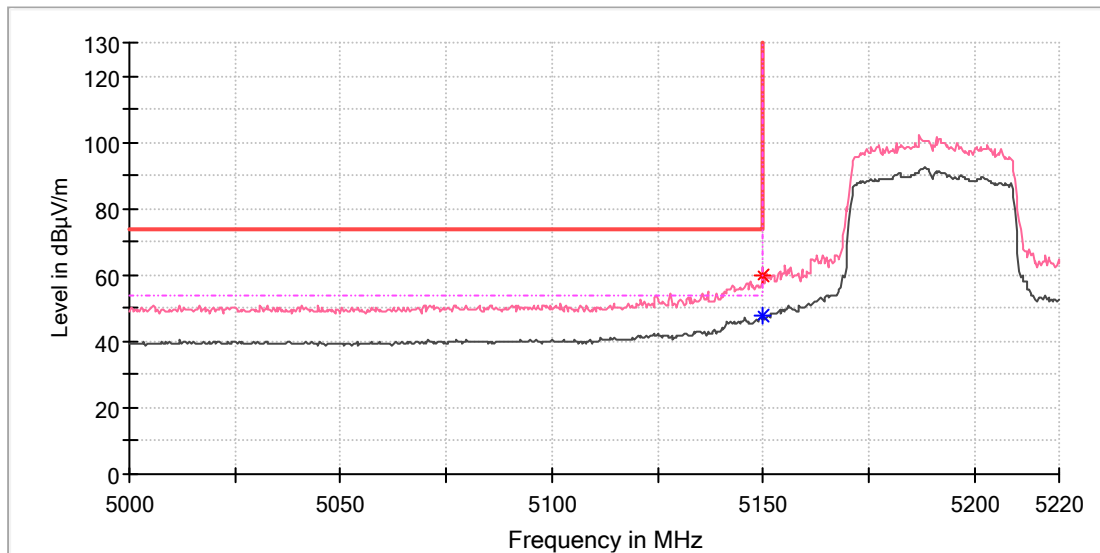
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5145.366667	---	50.55	54.00	3.45	150.0	H	110.0	12.4
5146.677778	62.71	---	74.00	11.29	150.0	H	110.0	12.4

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ax40_Ch38
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

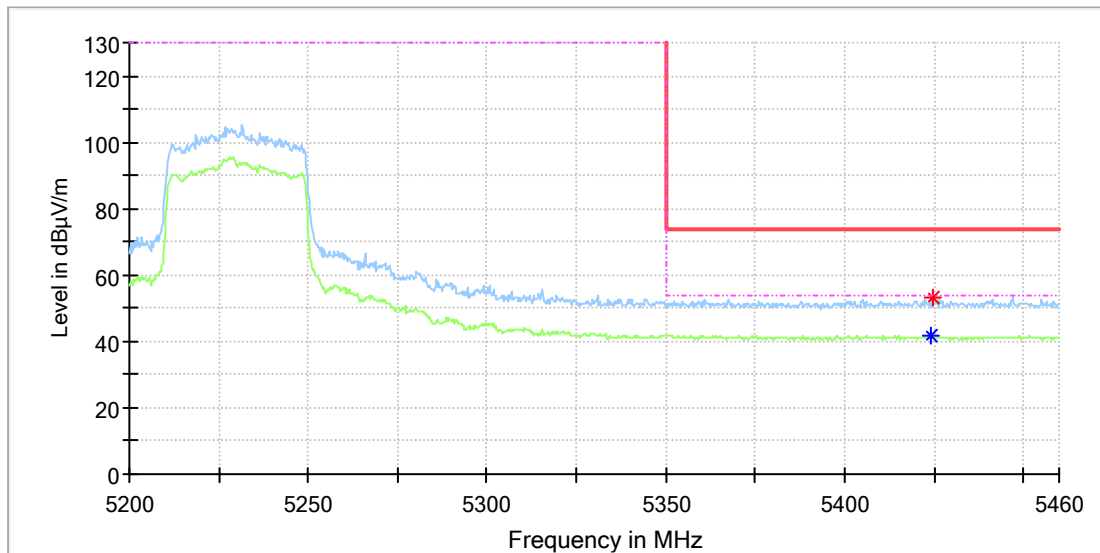
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5149.955556	59.60	---	74.00	14.40	150.0	V	229.0	12.4
5149.955556	---	47.69	54.00	6.31	150.0	V	229.0	12.4

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ax40_Ch46
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

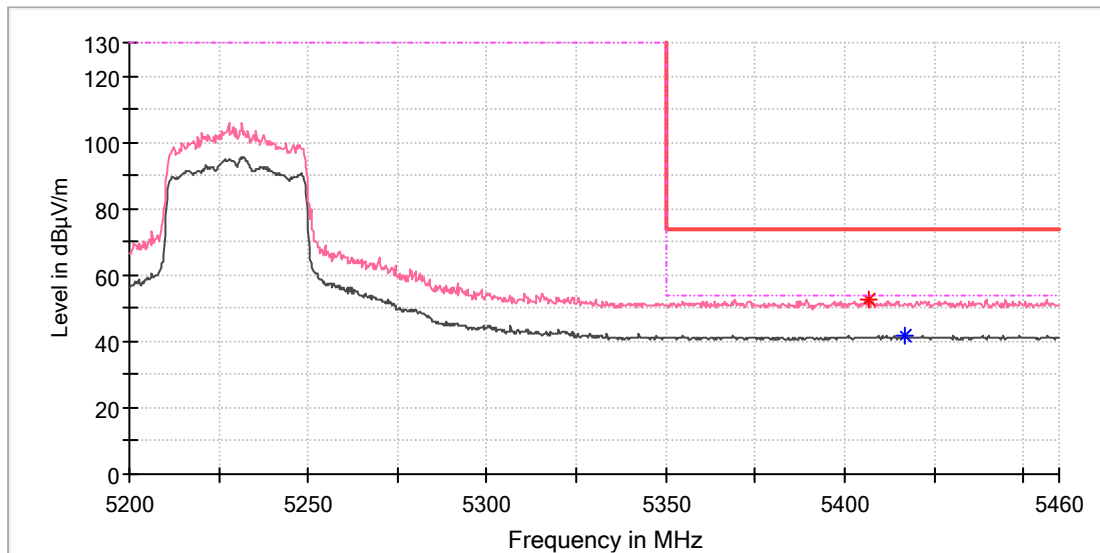
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5424.372222	---	41.88	54.00	12.12	150.0	H	348.0	13.5
5424.666667	53.43	---	74.00	20.57	150.0	H	193.0	13.5

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	WIFI 5G_11ax40_Ch46
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
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)
5406.705556	52.85	---	74.00	21.15	150.0	V	87.0	13.5
5417.011111	---	41.89	54.00	12.11	150.0	V	259.0	13.5

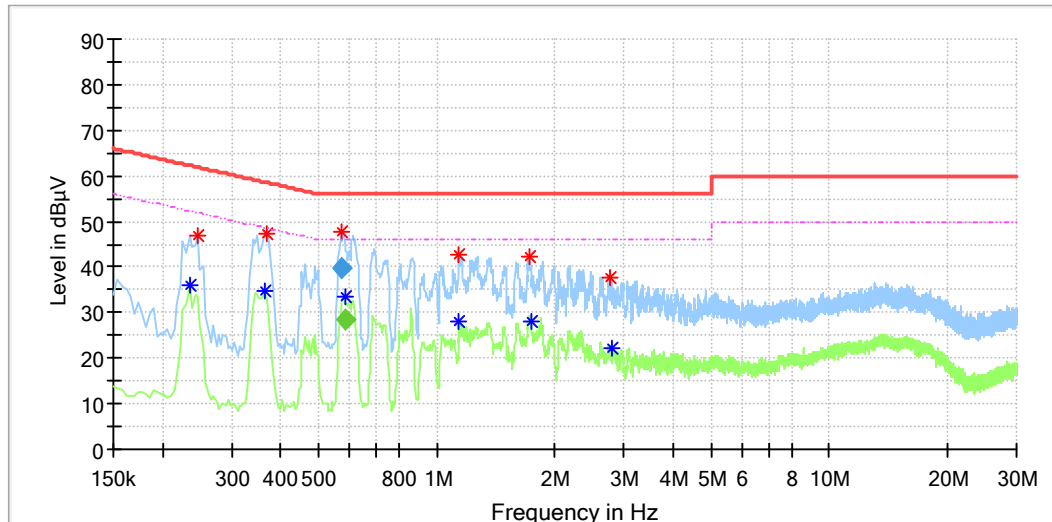
Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Appendix B.7: Test Results of Conducted Emission on AC Mains

EUT Information

EUT Name:	Controller
Order Number:	168484699
Model:	RC520
Test Mode:	Wi-Fi connecting
Test Voltage:	AC 120V/60Hz
Test Standard:	FCC Part 15
Test By:/Review By:	Steve Lan/ Shower Dai
Tem./Hum./Pressure:	23.4°C/51.2%/101kPa
Remark:	SR2



Critical Freqs

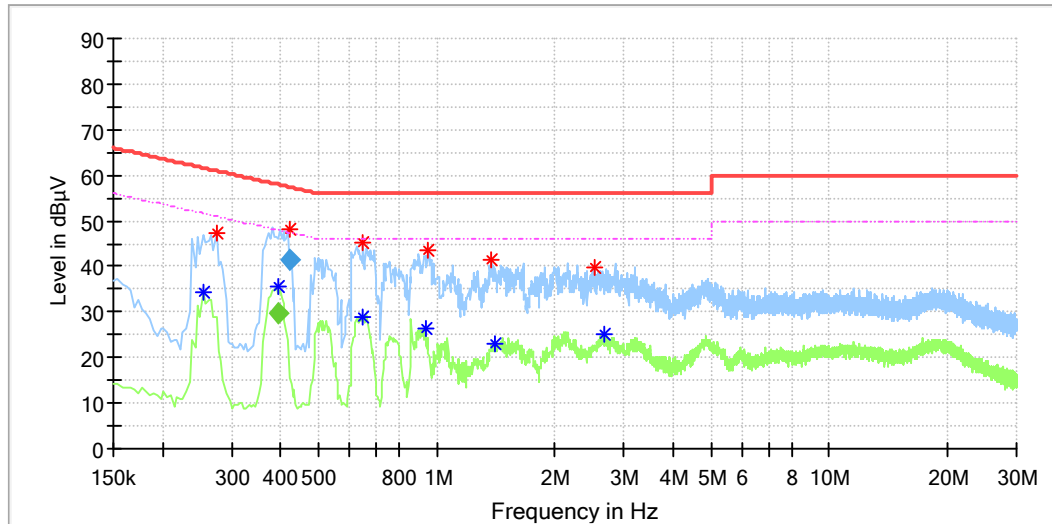
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.234000	---	36.19	52.31	16.11	L1	9.9
0.246000	46.90	---	61.89	14.99	L1	9.9
0.366000	---	34.87	48.59	13.72	L1	9.9
0.370000	47.44	---	58.50	11.06	L1	9.9
0.573500	47.72	---	56.00	8.28	L1	10.0
0.582500	---	33.29	46.00	12.71	L1	10.0
1.142000	---	28.04	46.00	17.96	L1	10.1
1.142000	42.52	---	56.00	13.48	L1	10.1
1.722000	42.30	---	56.00	13.70	L1	10.1
1.738000	---	27.91	46.00	18.09	L1	10.1
2.766000	37.79	---	56.00	18.21	L1	10.2
2.810000	---	22.21	46.00	23.79	L1	10.2

Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.573500	39.89	---	56.00	16.11	1000.0	9.000	L1	10.0
0.582500	---	28.32	46.00	17.68	1000.0	9.000	L1	10.0

EUT Information

EUT Name: Controller
Order Number: 168484699
Model: RC520
Test Mode: Wi-Fi connecting
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15
Test By:/Review By: Steve Lan/ Shower Dai
Tem./Hum./Pressure: 23.4°C/51.2%/101kPa
Remark: SR2



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.254000	---	34.16	51.63	17.46	N	9.8
0.274000	47.22	---	61.00	13.78	N	9.8
0.394500	---	35.51	48.06	12.55	N	9.8
0.422500	48.23	---	57.49	9.26	N	9.8
0.650000	---	28.76	46.00	17.24	N	9.8
0.650000	45.18	---	56.00	10.82	N	9.8
0.934000	---	26.43	46.00	19.58	N	9.8
0.954000	43.39	---	56.00	12.61	N	9.8
1.374000	41.27	---	56.00	14.73	N	9.8
1.414000	---	23.18	46.00	22.82	N	9.8
2.526000	39.84	---	56.00	16.16	N	9.9
2.674000	---	25.08	46.00	20.92	N	9.9

Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.394500	---	29.67	47.97	18.29	1000.0	9.000	N	9.8
0.422500	41.58	---	57.40	15.82	1000.0	9.000	N	9.8