

Appendix A: Test Results of 5.2G SDR

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

5.2GHz SDR, 10MHz BW

TestMode	Antenna	Channel	Result[dBm/MHz]	Limit[dBm/MHz]	Verdict
10MHz	Ant2	5157	-2.64	≤11.00	PASS
	Ant5	5157	-5.36	≤11.00	PASS
	total	5157	-0.78	≤11.00	PASS
	Ant2	5200	9.20	≤11.00	PASS
	Ant5	5200	6.03	≤11.00	PASS
	total	5200	10.91	≤11.00	PASS
	Ant2	5245	8.37	≤11.00	PASS
	Ant5	5245	6.77	≤11.00	PASS
	total	5245	10.65	≤11.00	PASS

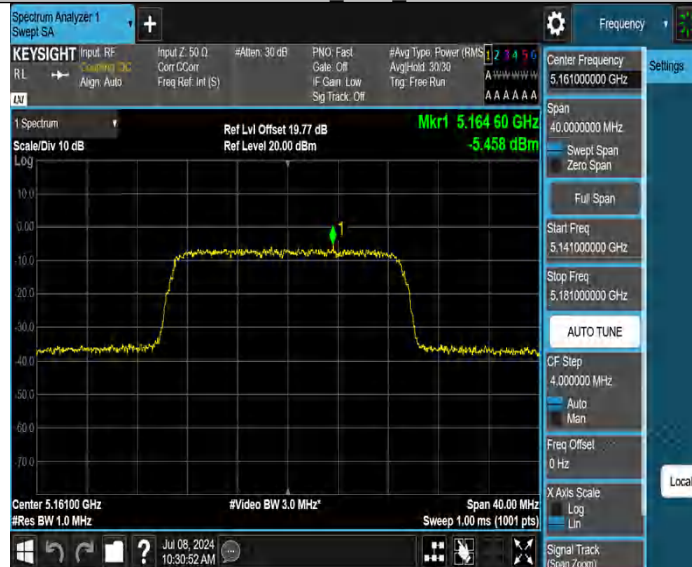




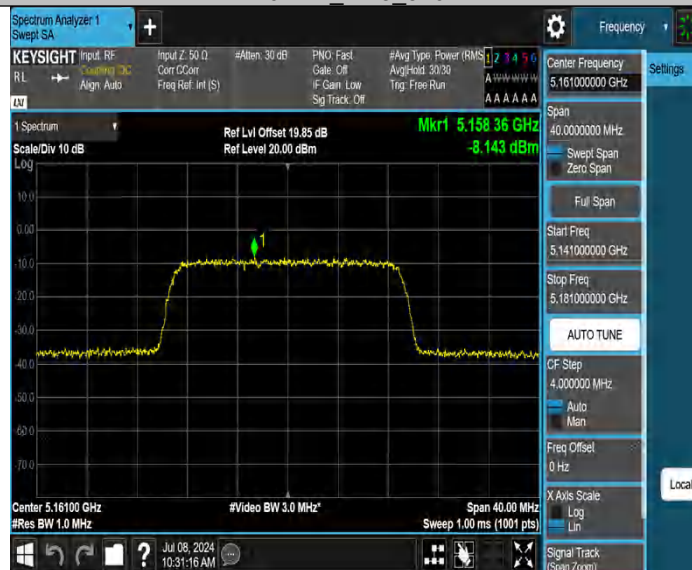
5.2GHz SDR, 20MHz BW

TestMode	Antenna	Channel	Result[dBm/MHz]	Limit[dBm/MHz]	Verdict
20MHz	Ant2	5161	-5.46	≤11.00	PASS
	Ant5	5161	-8.14	≤11.00	PASS
	total	5161	-3.59	≤11.00	PASS
	Ant2	5200	7.10	≤11.00	PASS
	Ant5	5200	3.53	≤11.00	PASS
	total	5200	8.68	≤11.00	PASS
	Ant2	5240	6.27	≤11.00	PASS
	Ant5	5240	4.38	≤11.00	PASS
	total	5240	8.44	≤11.00	PASS

20MHz_Ant2_5161



20MHz_Ant5_5161



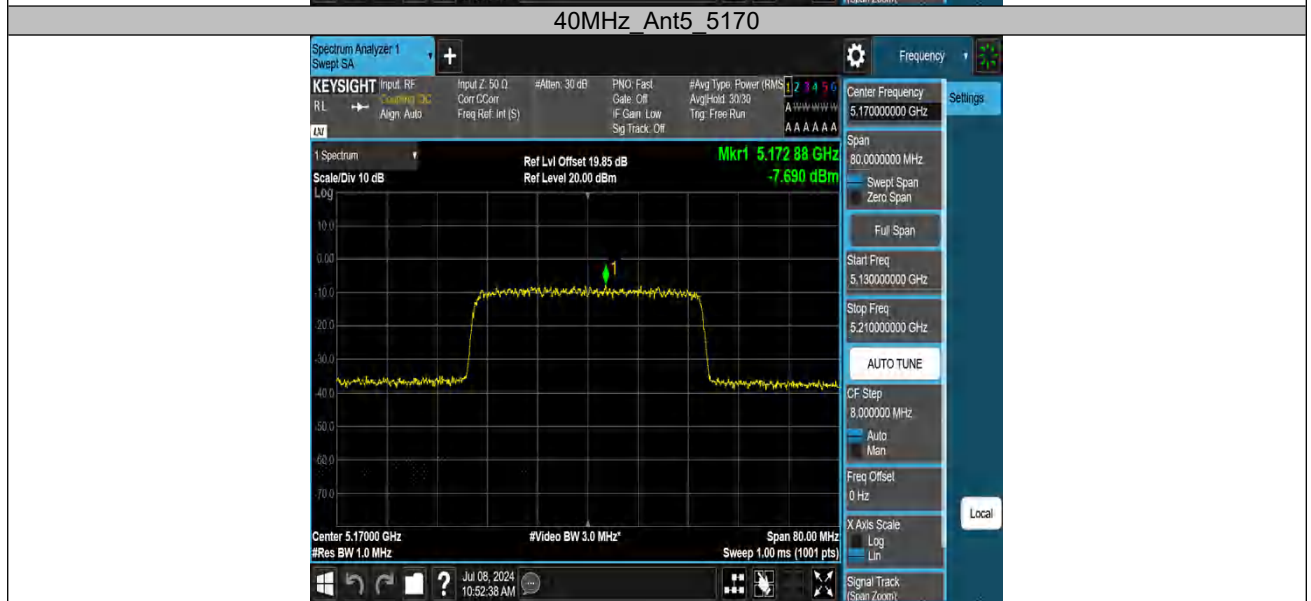
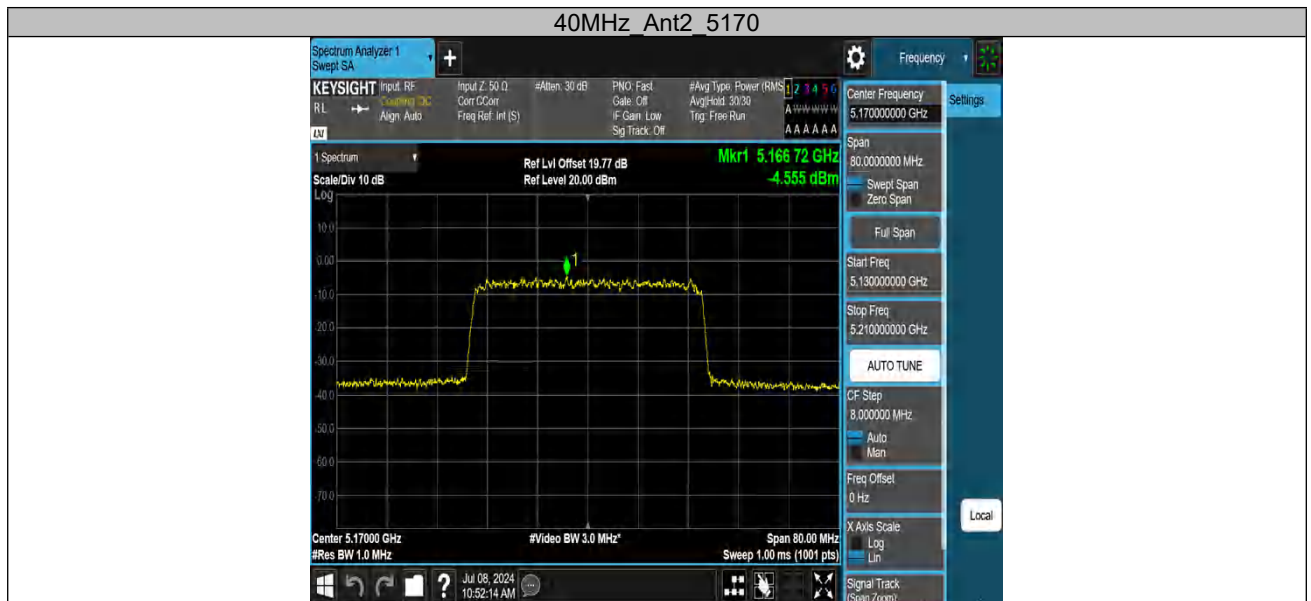
20MHz_Ant2_5200





5.2GHz SDR, 40MHz BW

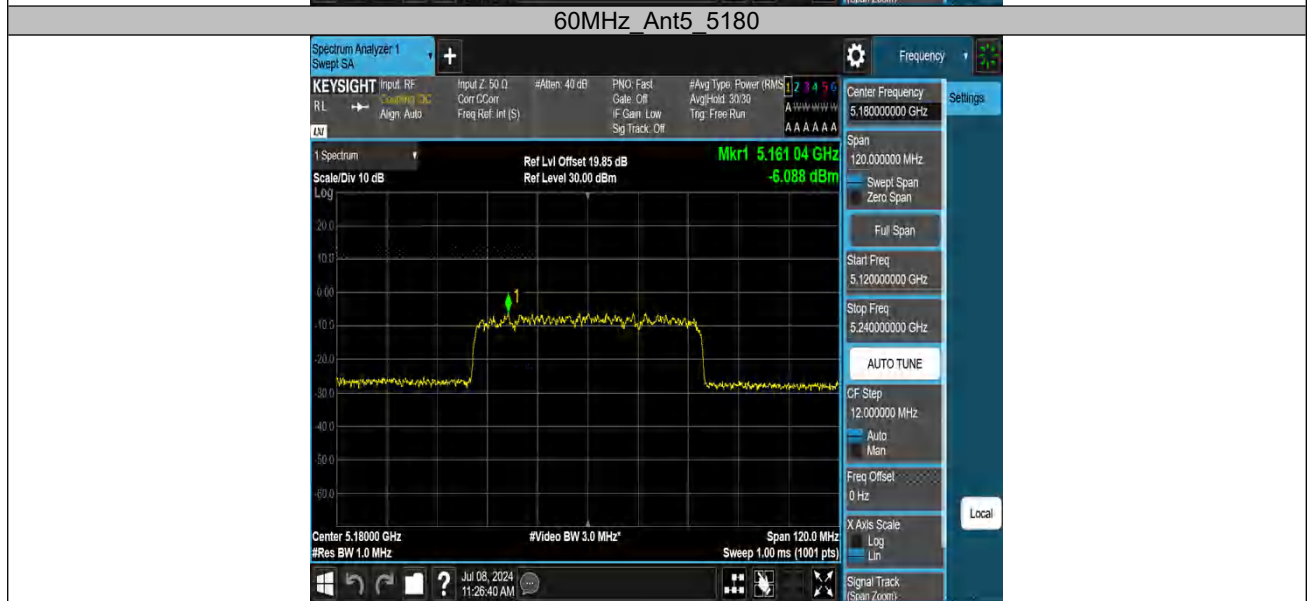
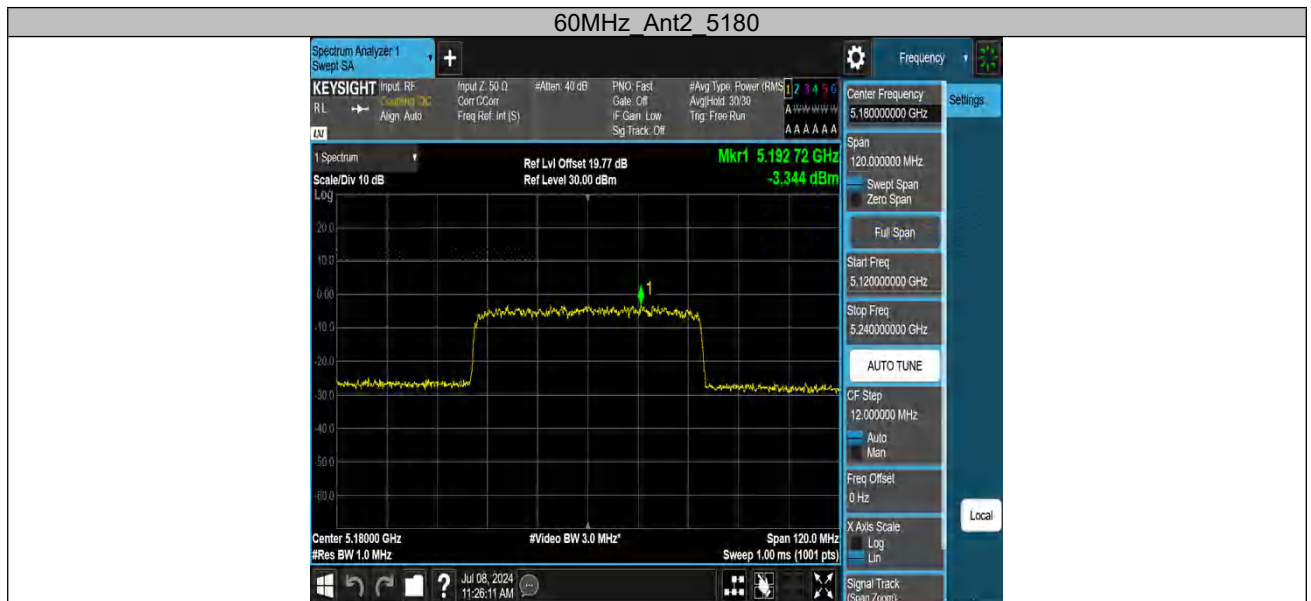
TestMode	Antenna	Channel	Result[dBm/MHz]	Limit[dBm/MHz]	Verdict
40MHz	Ant2	5170	-4.56	≤11.00	PASS
	Ant5	5170	-7.69	≤11.00	PASS
	total	5170	-2.84	≤11.00	PASS
	Ant2	5200	6.29	≤11.00	PASS
	Ant5	5200	2.61	≤11.00	PASS
	total	5200	7.84	≤11.00	PASS
	Ant2	5230	5.51	≤11.00	PASS
	Ant5	5230	4.95	≤11.00	PASS
	total	5230	8.25	≤11.00	PASS





5.2GHz SDR, 60MHz BW

TestMode	Antenna	Channel	Result[dBm/MHz]	Limit[dBm/MHz]	Verdict
60MHz	Ant2	5180	-3.34	≤11.00	PASS
	Ant5	5180	-6.09	≤11.00	PASS
	total	5180	-1.49	≤11.00	PASS
	Ant2	5200	3.86	≤11.00	PASS
	Ant5	5200	0.80	≤11.00	PASS
	total	5200	5.60	≤11.00	PASS
	Ant2	5220	1.47	≤11.00	PASS
	Ant5	5220	-1.42	≤11.00	PASS
	total	5220	3.27	≤11.00	PASS





5.2GHz SDR, 80MHz BW

TestMode	Antenna	Channel	Result[dBm/MHz]	Limit[dBm/MHz]	Verdict
80MHz	Ant2	5190	-3.97	≤11.00	PASS
	Ant5	5190	-6.82	≤11.00	PASS
	total	5190	-2.15	≤11.00	PASS
	Ant2	5200	-0.63	≤11.00	PASS
	Ant5	5200	-2.08	≤11.00	PASS
	total	5200	1.72	≤11.00	PASS
	Ant2	5210	3.96	≤11.00	PASS
	Ant5	5210	2.42	≤11.00	PASS
	total	5210	6.27	≤11.00	PASS





Appendix A.2: Test Results of Frequency Stability

Note: This testing was carried out on SISO mode and MIMO mode, but only the worst case (ANT2) was presented in this report.

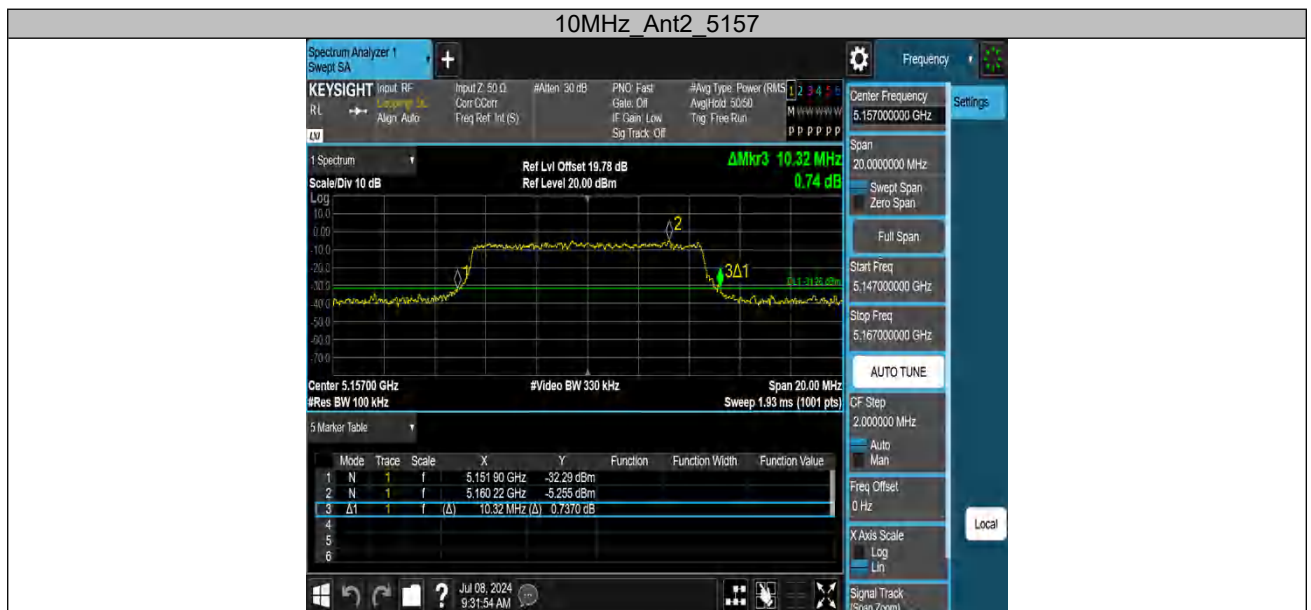
Voltage							
TestMode	Antenna	Channel	Voltage [Vdc]	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
10MHz	Ant2	5157	na	-6000.00	-1.163467	20	PASS
		5200	na	-6000.00	-1.153846	20	PASS
		5245	na	-6000.00	-1.143947	20	PASS
20MHz	Ant2	5161	na	-6000.00	-1.162565	20	PASS
		5200	na	-6000.00	-1.153846	20	PASS
		5240	na	-6000.00	-1.145038	20	PASS
40MHz	Ant2	5170	na	-7000.00	-1.353965	20	PASS
		5200	na	-6000.00	-1.153846	20	PASS
		5230	na	-6000.00	-1.147228	20	PASS
60MHz	Ant2	5180	na	-6000.00	-1.158301	20	PASS
		5200	na	-6000.00	-1.153846	20	PASS
		5220	na	-7000.00	-1.340996	20	PASS
80MHz	Ant2	5190	na	-6000.00	-1.156069	20	PASS
		5200	na	-6000.00	-1.153846	20	PASS
		5210	na	-6000.00	-1.151631	20	PASS

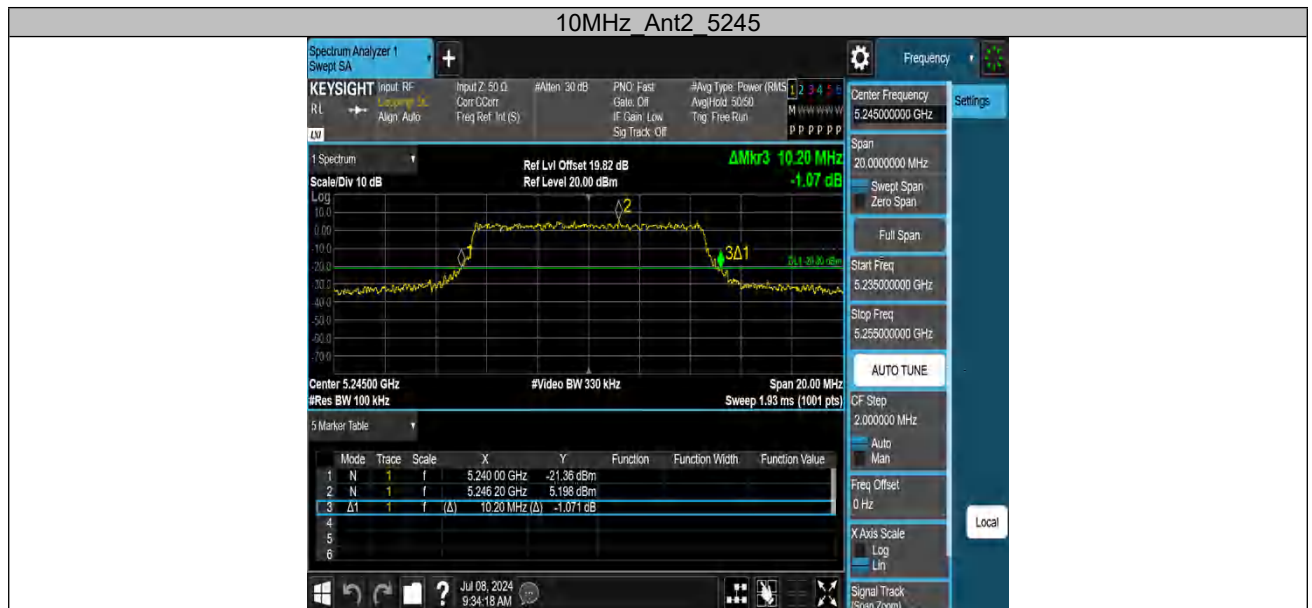
Appendix A.3: Test Results of 26dB Bandwidth

Note: This testing was carried out on SISO mode and MIMO mode, but only the worst case (ANT2) was presented in this report.

5.2GHz SDR, 10MHz BW

TestMode	Antenna	Channel	26Db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
10MHz	Ant2	5157	10.320	5151.900	5162.220	---	PASS
		5200	10.280	5194.880	5205.160	---	PASS
		5245	10.200	5240.000	5250.200	---	PASS





5.2GHz SDR, 20MHz BW

TestMode	Antenna	Channel	26Db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
20MHz	Ant2	5161	19.360	5151.440	5170.800	---	PASS
		5200	19.160	5190.360	5209.520	---	PASS
		5240	19.200	5230.480	5249.680	---	PASS





5.2GHz SDR, 40MHz BW

TestMode	Antenna	Channel	26Db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
40MHz	Ant2	5170	38.000	5151.120	5189.120	---	PASS
		5200	36.560	5181.760	5218.320	---	PASS
		5230	36.560	5211.760	5248.320	---	PASS

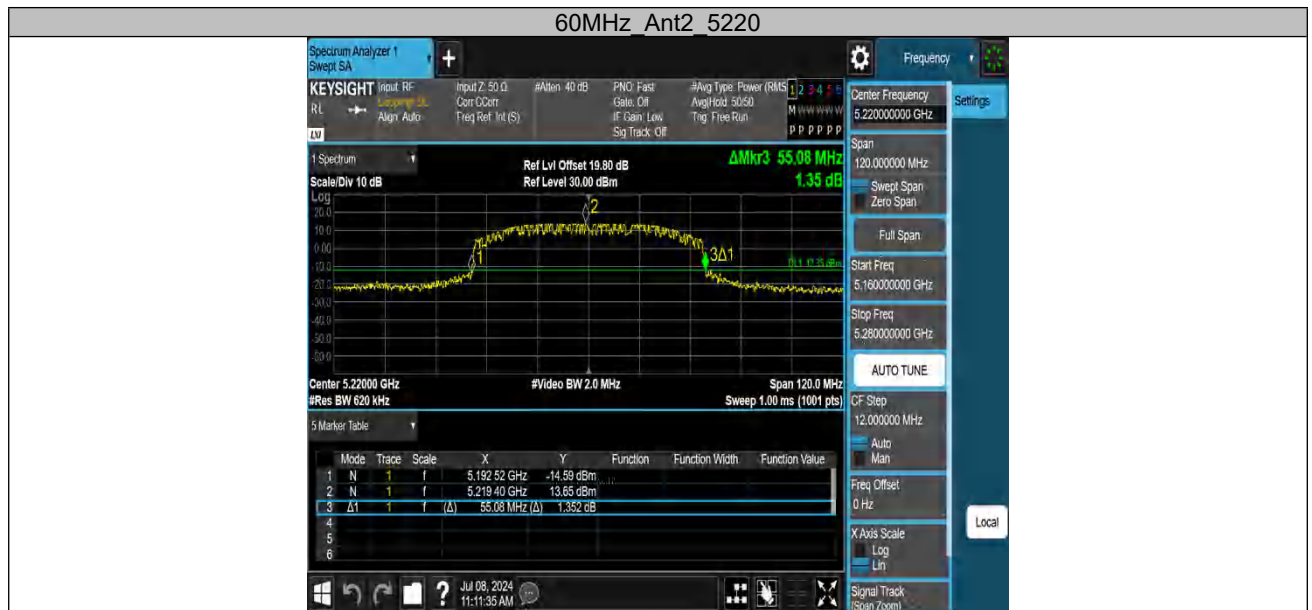




5.2GHz SDR, 60MHz BW

TestMode	Antenna	Channel	26Db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
60MHz	Ant2	5180	55.200	5152.520	5207.720	---	PASS
		5200	57.240	5171.320	5228.560	---	PASS
		5220	55.080	5192.520	5247.600	---	PASS





5.2GHz SDR, 80MHz BW

TestMode	Antenna	Channel	26Db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
80MHz	Ant2	5190	71.840	5154.000	5225.840	---	PASS
		5200	71.840	5164.160	5236.000	---	PASS
		5210	71.680	5174.320	5246.000	---	PASS



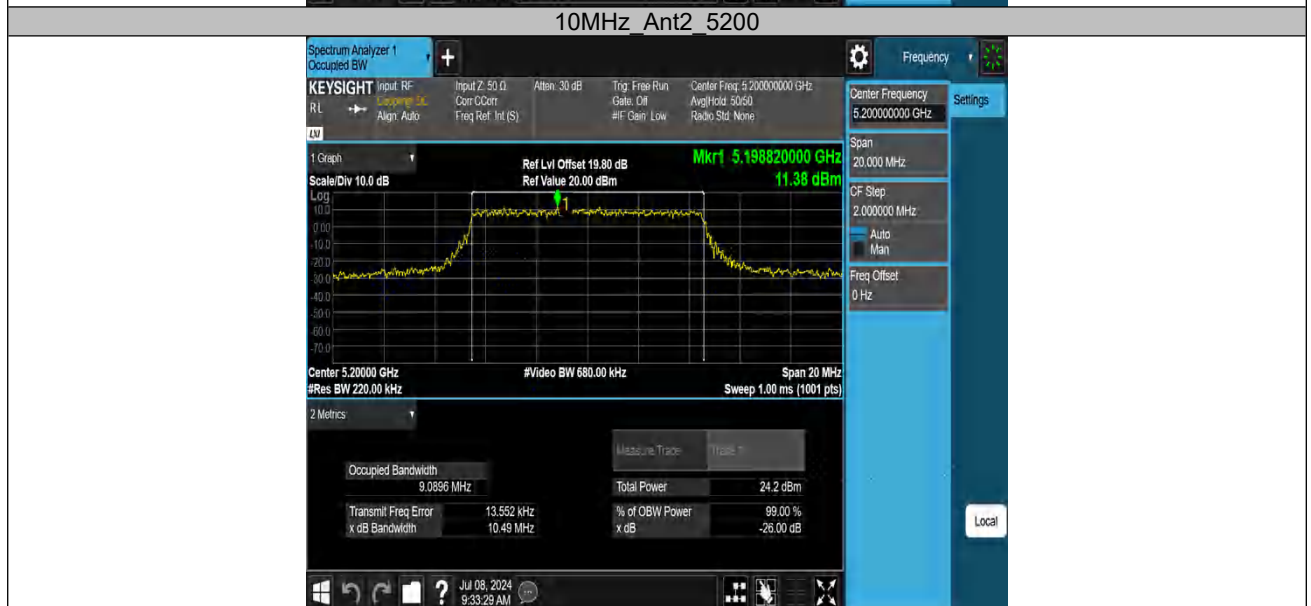
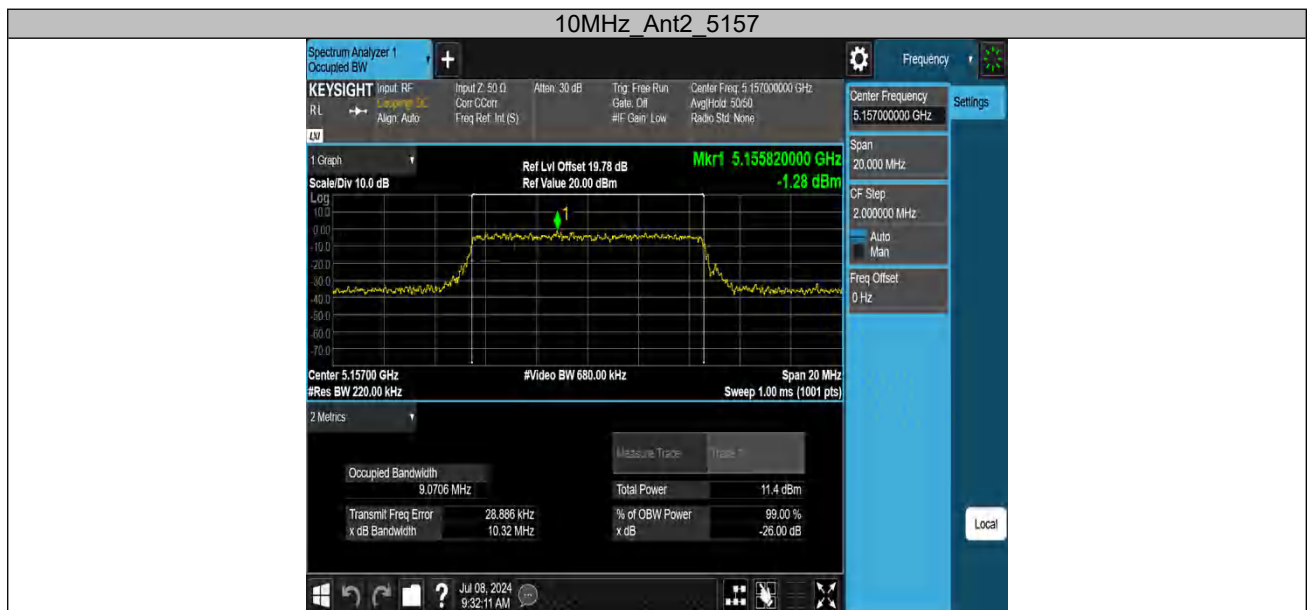


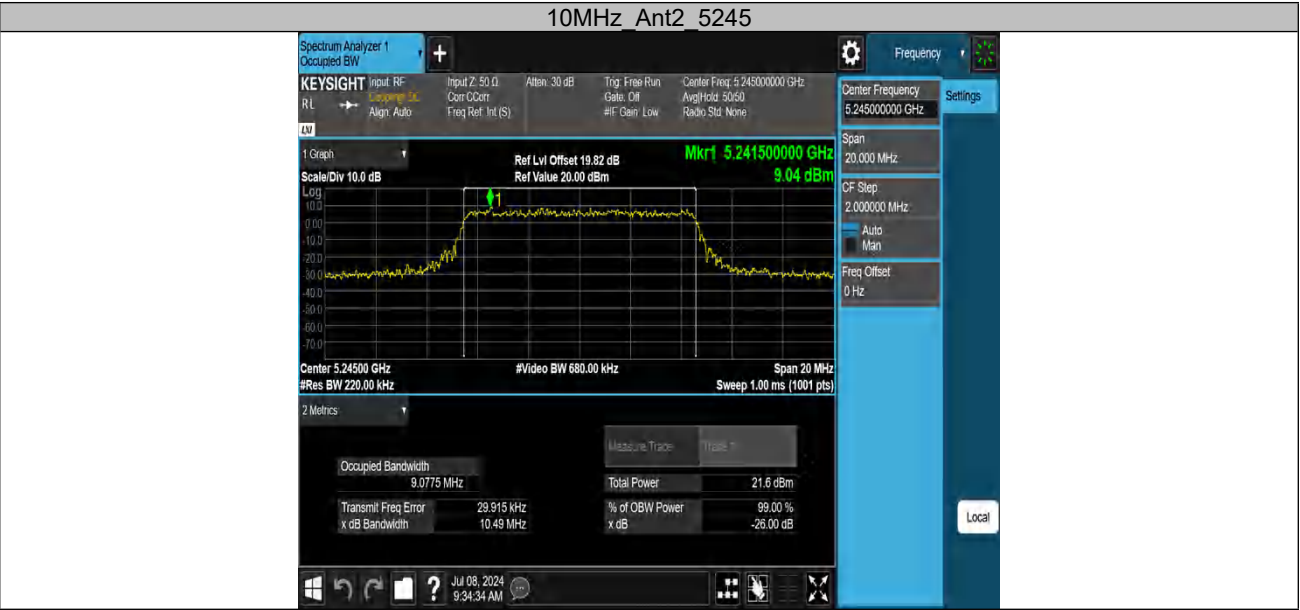
Appendix A.4: Test Results of 99% Bandwidth

Note: This testing was carried out on SISO mode and MIMO mode, but only the worst case (ANT2) was presented in this report.

5.2GHz SDR, 10MHz BW

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
10MHz	Ant2	5157	9.0706	5152.4936	5161.5642	---	PASS
		5200	9.0896	5195.4688	5204.5584	---	PASS
		5245	9.0775	5240.4912	5249.5687	---	PASS

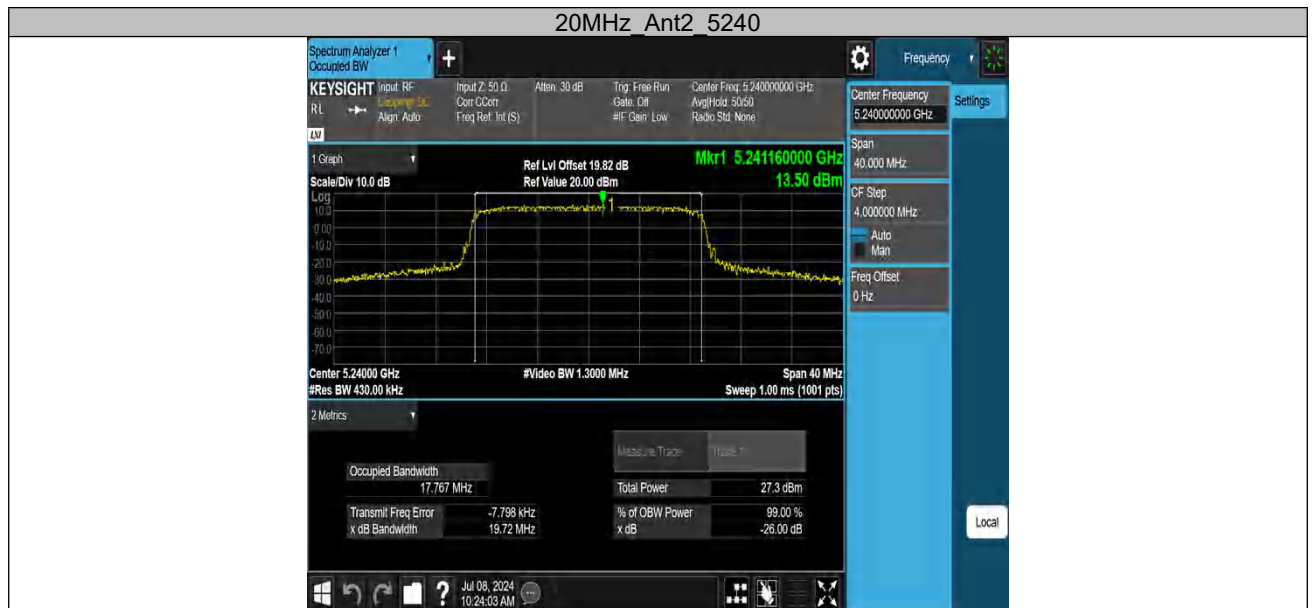




5.2GHz SDR, 20MHz BW

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
20MHz	Ant2	5161	17.985	5152.0127	5169.9977	---	PASS
		5200	17.801	5191.1078	5208.9088	---	PASS
		5240	17.767	5231.1087	5248.8757	---	PASS

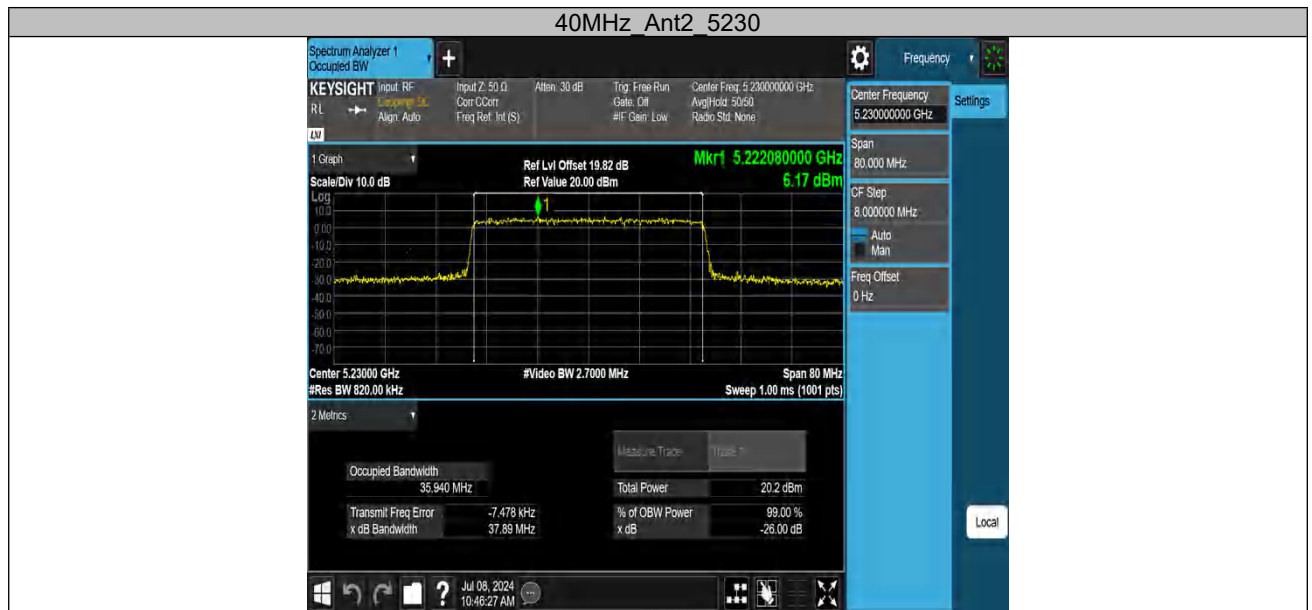




5.2GHz SDR, 40MHz BW

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
40MHz	Ant2	5170	35.961	5152.0703	5188.0313	---	PASS
		5200	35.888	5182.0617	5217.9497	---	PASS
		5230	35.940	5212.0225	5247.9625	---	PASS

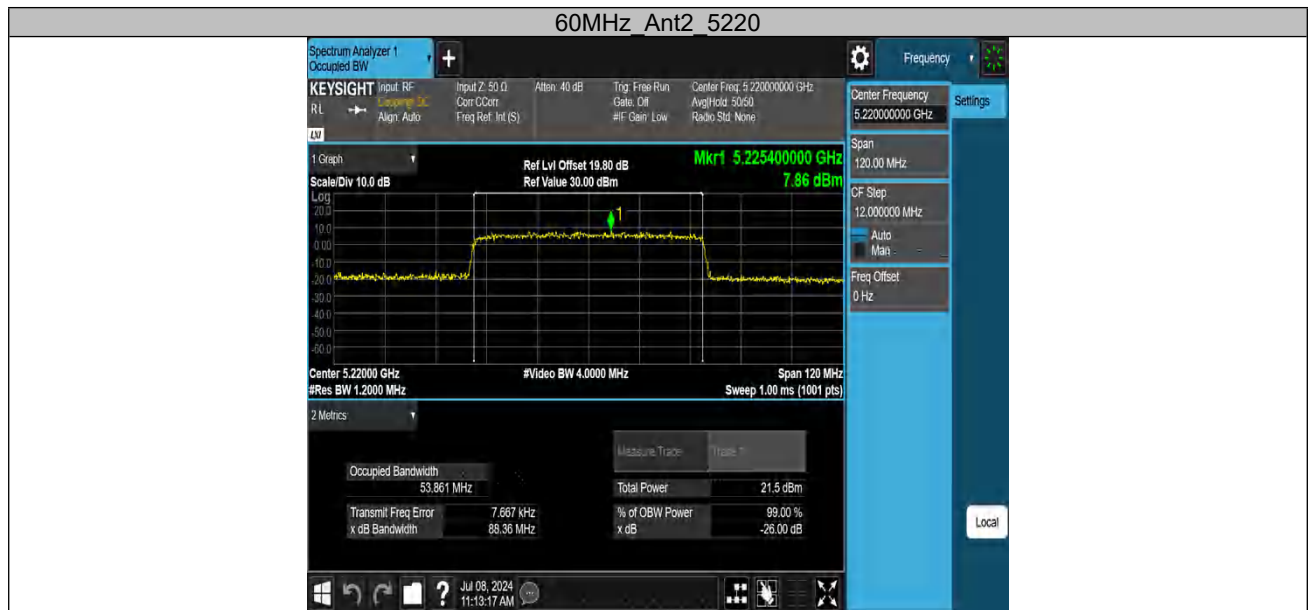




5.2GHz SDR, 60MHz BW

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
60MHz	Ant2	5180	53.983	5152.9937	5206.9767	---	PASS
		5200	54.049	5172.9675	5227.0165	---	PASS
		5220	53.861	5193.0772	5246.9382	---	PASS

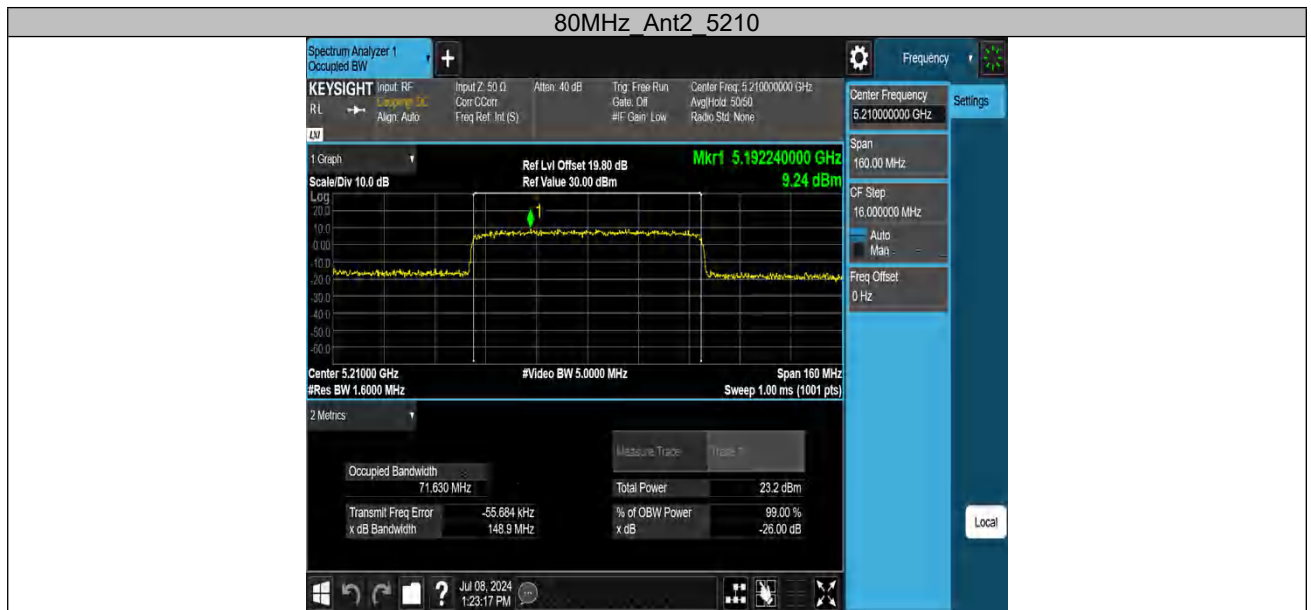




5.2GHz SDR, 80MHz BW

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
80MHz	Ant2	5190	71.571	5154.1171	5225.6881	---	PASS
		5200	71.823	5163.9587	5235.7817	---	PASS
		5210	71.630	5174.1293	5245.7593	---	PASS





Appendix A.5: Test Results of Radiated Spurious Emissions

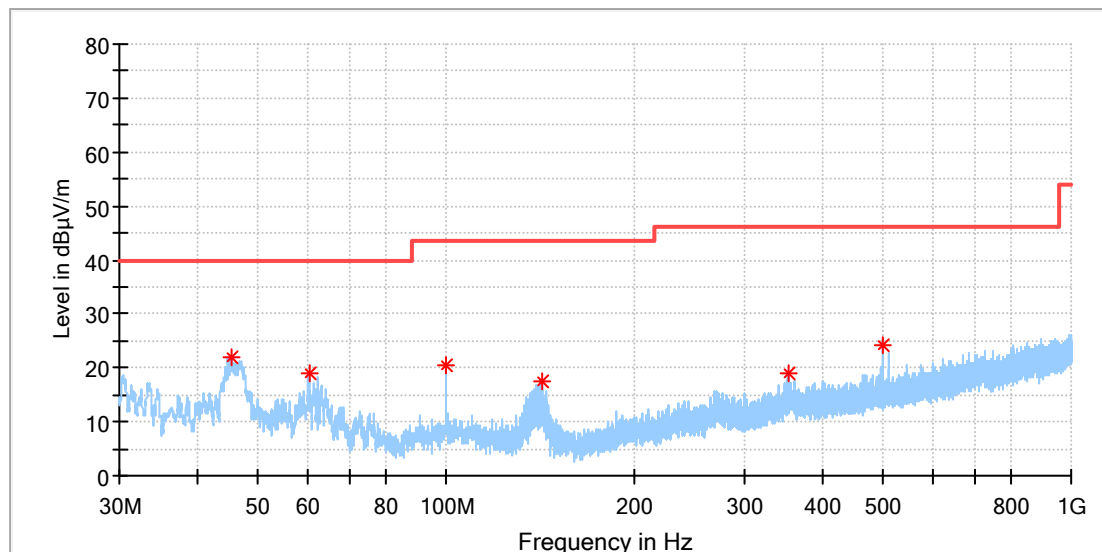
Note:

- 1) This testing was carried out on SISO mode and MIMO mode, but only the worst case (MIMO) was presented in this report.
- 2) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 3) 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:	SDR 5.2G_10M_5200MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

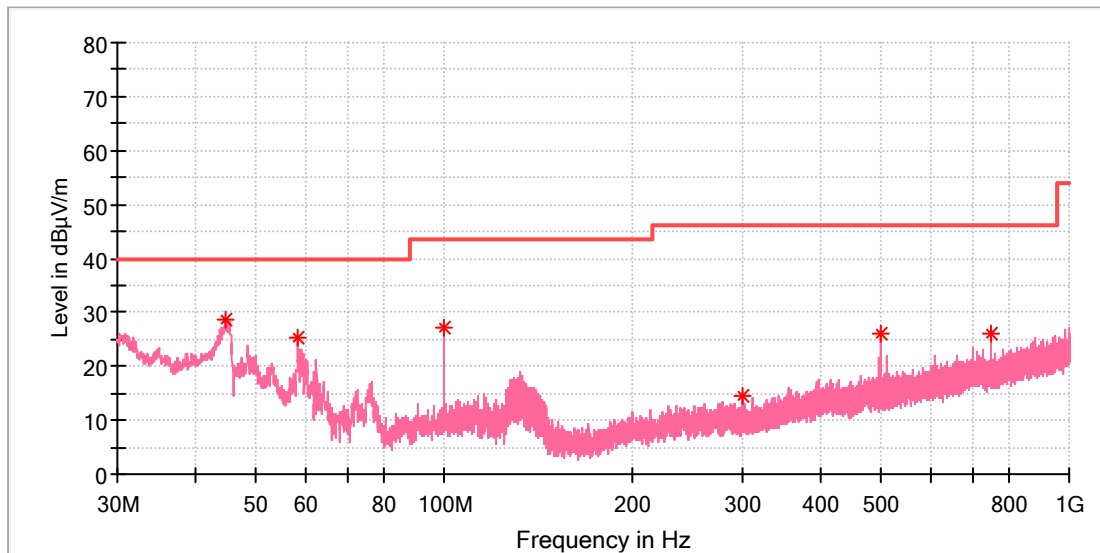
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.221539	22.05	40.00	17.95	100.0	H	81.0	-19.1
60.293846	18.90	40.00	21.10	100.0	H	0.0	-19.4
99.989231	20.36	43.50	23.14	100.0	H	0.0	-19.3
141.960385	17.45	43.50	26.05	100.0	H	269.0	-22.6
351.853462	19.16	46.00	26.84	100.0	H	269.0	-15.1
500.039615	24.28	46.00	21.72	100.0	H	58.0	-12.2

Final_Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	SDR 5.2G_10M_5200MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
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)
44.811154	28.79	40.00	11.21	100.0	V	174.0	-19.2
58.391154	25.34	40.00	14.66	100.0	V	114.0	-19.1
99.989231	27.02	43.50	16.48	100.0	V	114.0	-19.3
299.995769	14.69	46.00	31.31	100.0	V	4.0	-16.6
500.002308	26.04	46.00	19.96	100.0	V	197.0	-12.2
750.038462	26.08	46.00	19.92	100.0	V	355.0	-7.6

Final Result

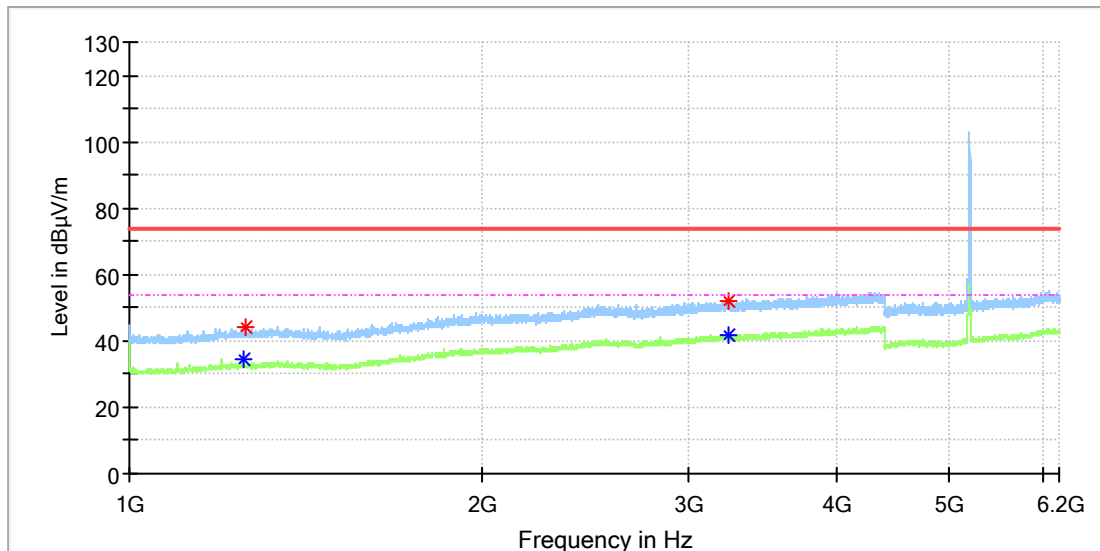
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

1GHz - 18GHz

Note: The highest waveform in the figure is 5.2GHz SDR Fundamental.

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	SDR 5.2G_10M_5200MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

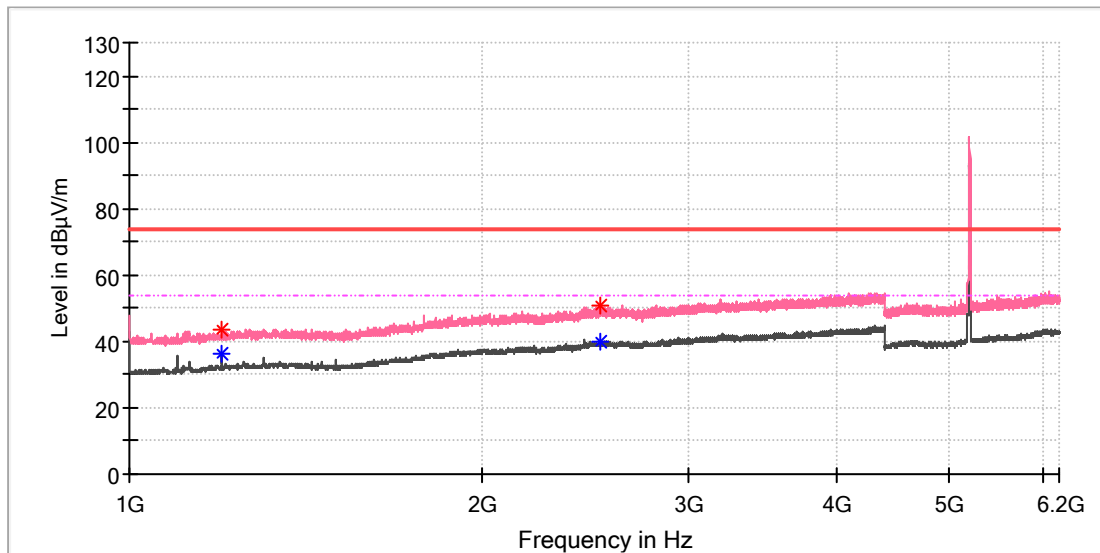
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1249.500000	---	34.20	54.00	19.80	150.0	H	190.0	1.9
1256.000000	44.29	---	74.00	29.71	150.0	H	342.0	1.9
3234.500000	51.99	---	74.00	22.02	150.0	H	166.0	8.5
3240.000000	---	41.55	54.00	12.45	150.0	H	234.0	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:	SDR 5.2G_10M_5200MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

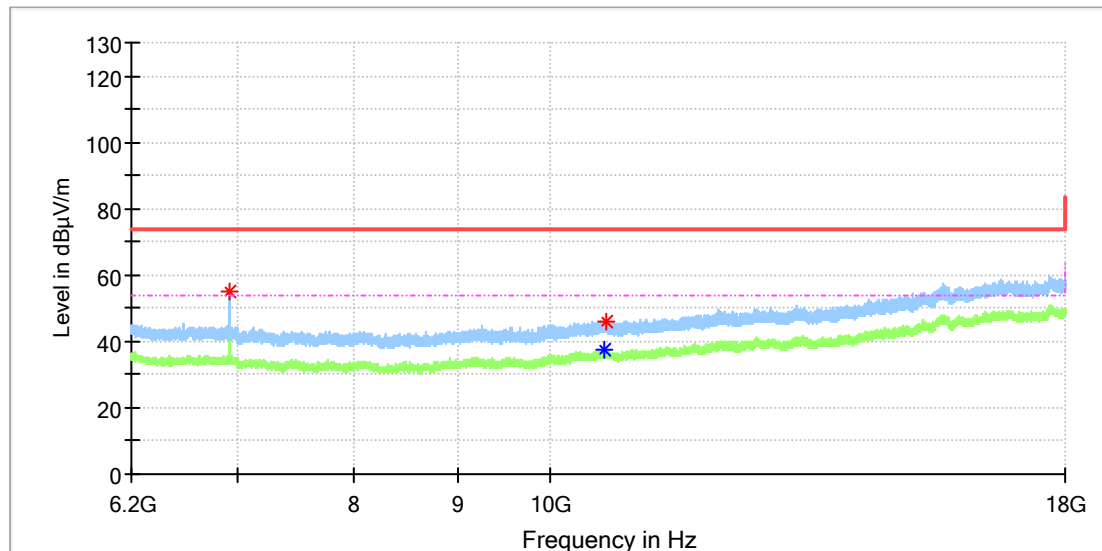
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1200.000000	43.52	---	74.00	30.48	150.0	V	321.0	1.1
1200.000000	---	36.23	54.00	17.77	150.0	V	321.0	1.1
2515.000000	---	39.81	54.00	14.19	150.0	V	265.0	7.4
2520.500000	50.90	---	74.00	23.10	150.0	V	297.0	7.5

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:	SDR 5.2G_10M_5200MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

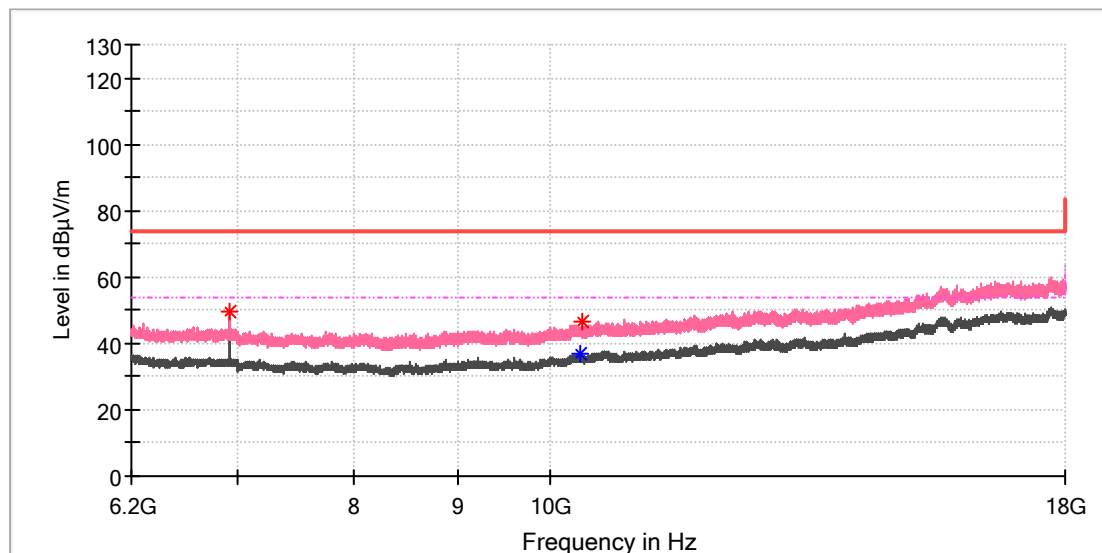
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
6933.075000	55.06	---	68.20	13.14	150.0	H	58.0	8.6
10643.683333	---	37.44	54.00	16.56	150.0	H	355.0	12.0
10660.400000	46.13	---	74.00	27.87	150.0	H	155.0	12.0

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:	SDR 5.2G_10M_5200MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

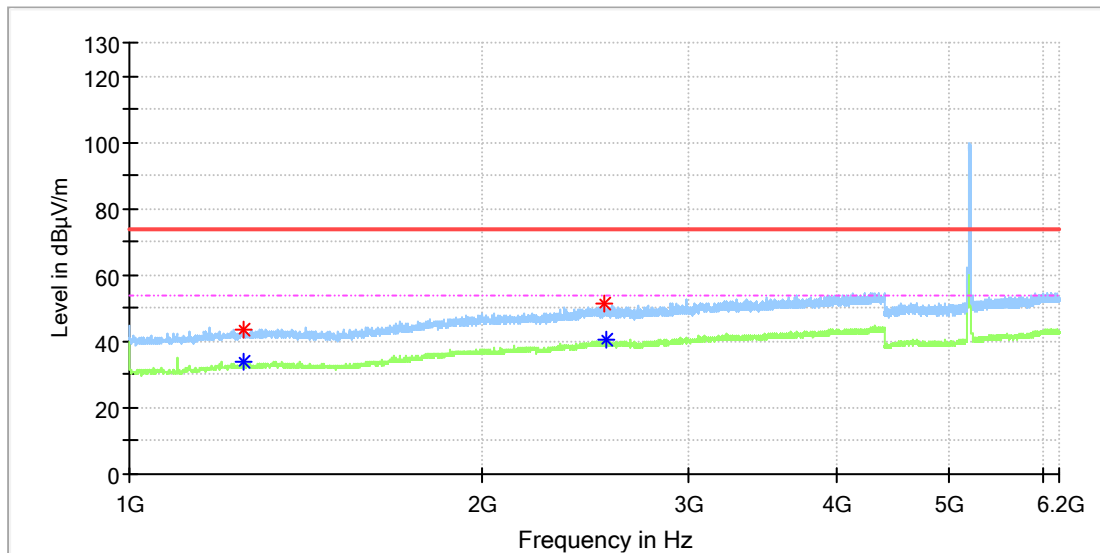
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
6933.075000	49.62	---	68.20	18.58	150.0	V	141.0	8.6
10349.175000	---	36.89	54.00	17.11	150.0	V	0.0	11.8
10378.183333	46.40	---	74.00	27.60	150.0	V	0.0	11.9

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:	SDR 5.2G_20M_5200MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

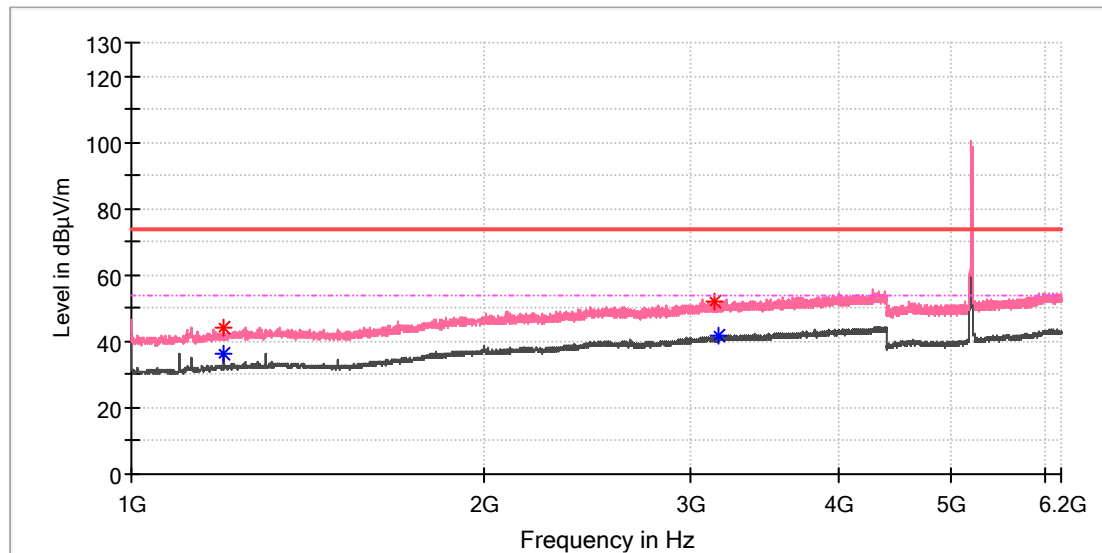
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1249.500000	43.64	---	74.00	30.36	150.0	H	89.0	1.9
1249.500000	---	34.03	54.00	19.97	150.0	H	89.0	1.9
2542.500000	51.23	---	74.00	22.77	150.0	H	350.0	7.6
2554.000000	---	40.63	54.00	13.37	150.0	H	77.0	7.6

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:	SDR 5.2G_20M_5200MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

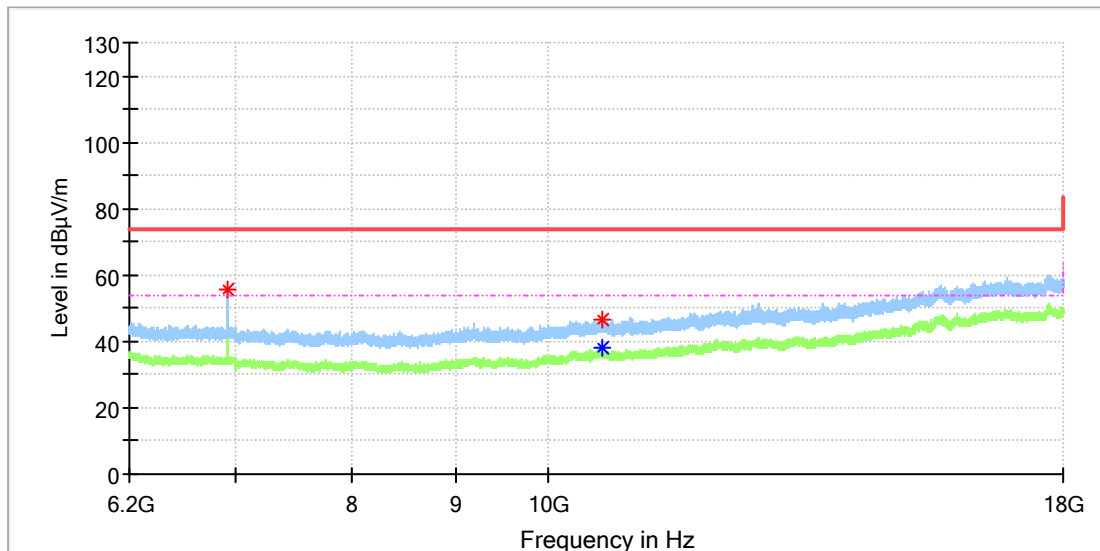
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1200.000000	44.19	---	74.00	29.81	150.0	V	17.0	1.1
1200.000000	---	36.55	54.00	17.45	150.0	V	17.0	1.1
3137.000000	51.75	---	74.00	22.25	150.0	V	249.0	8.6
3164.000000	---	41.90	54.00	12.10	150.0	V	171.0	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:	SDR 5.2G_20M_5200MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

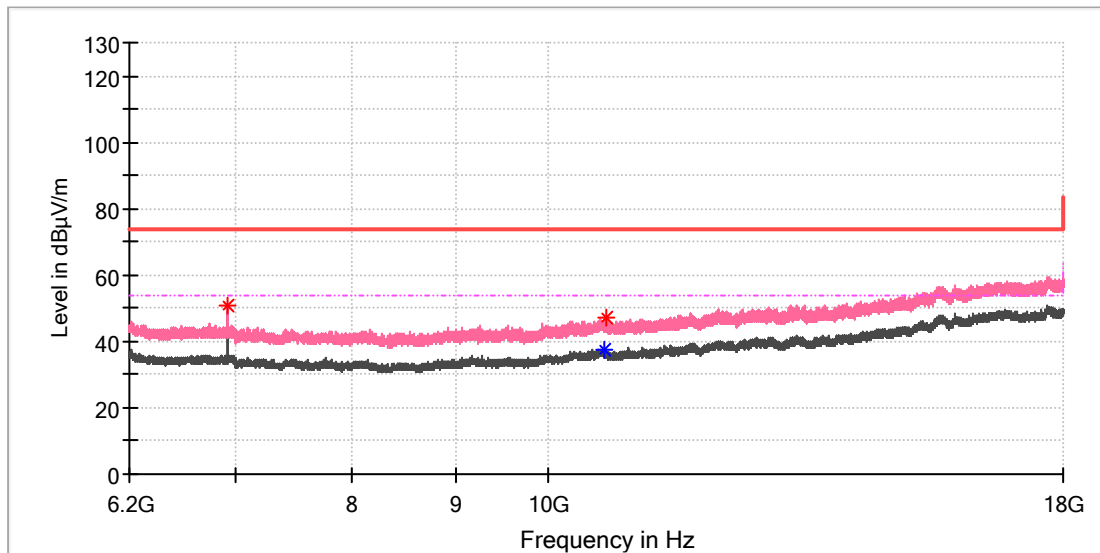
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
6933.075000	55.60	---	68.20	12.60	150.0	H	66.0	8.6
10628.933333	---	37.84	54.00	16.16	150.0	H	29.0	12.0
10637.291667	46.75	---	74.00	27.25	150.0	H	103.0	12.0

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:	SDR 5.2G_20M_5200MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

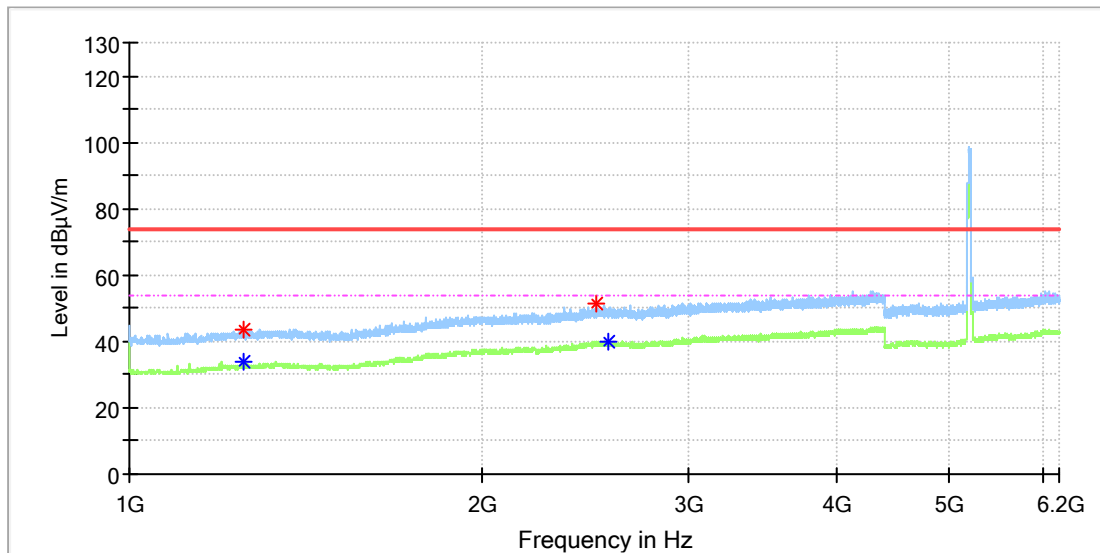
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
6933.075000	50.93	---	68.20	17.27	150.0	V	95.0	8.6
10652.533333	---	37.61	54.00	16.39	150.0	V	272.0	12.0
10686.950000	47.22	---	74.00	26.78	150.0	V	296.0	11.9

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:	SDR 5.2G_40M_5200MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

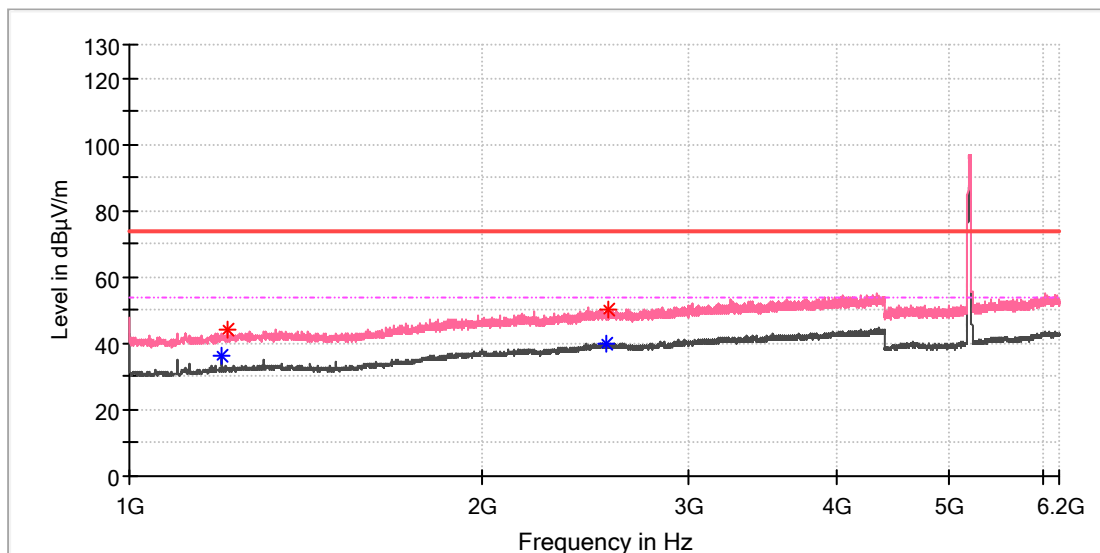
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1249.500000	---	33.90	54.00	20.10	150.0	H	342.0	1.9
1250.000000	43.51	---	74.00	30.49	150.0	H	44.0	1.9
2498.500000	51.24	---	74.00	22.76	150.0	H	299.0	7.4
2557.000000	---	39.67	54.00	14.33	150.0	H	93.0	7.6

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:	SDR 5.2G_40M_5200MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

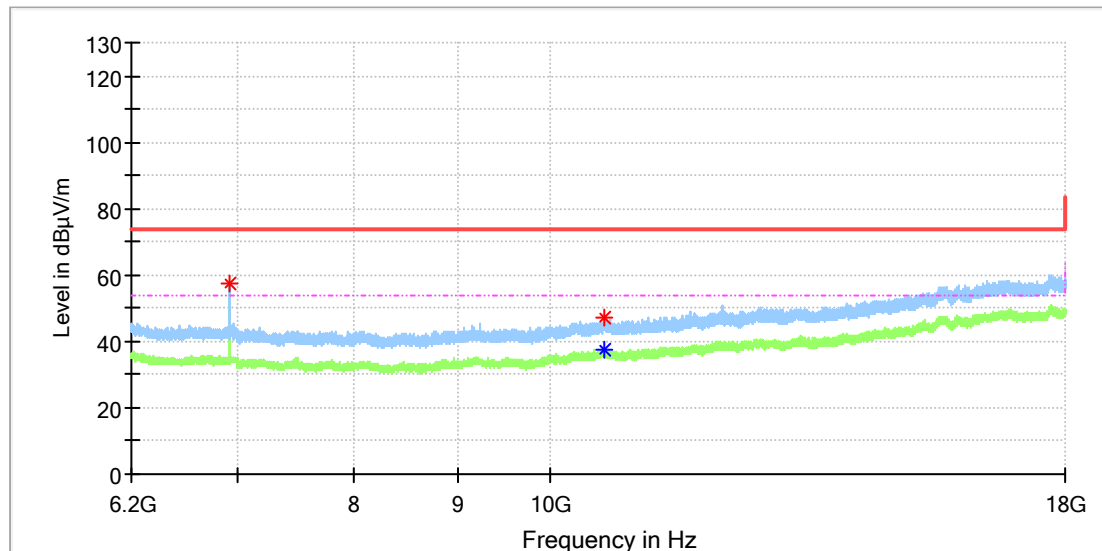
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1199.500000	---	36.19	54.00	17.81	150.0	V	113.0	1.1
1213.500000	44.09	---	74.00	29.91	150.0	V	280.0	1.3
2547.500000	---	40.17	54.00	13.83	150.0	V	218.0	7.6
2558.500000	50.10	---	74.00	23.90	150.0	V	293.0	7.6

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:	SDR 5.2G_40M_5200MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

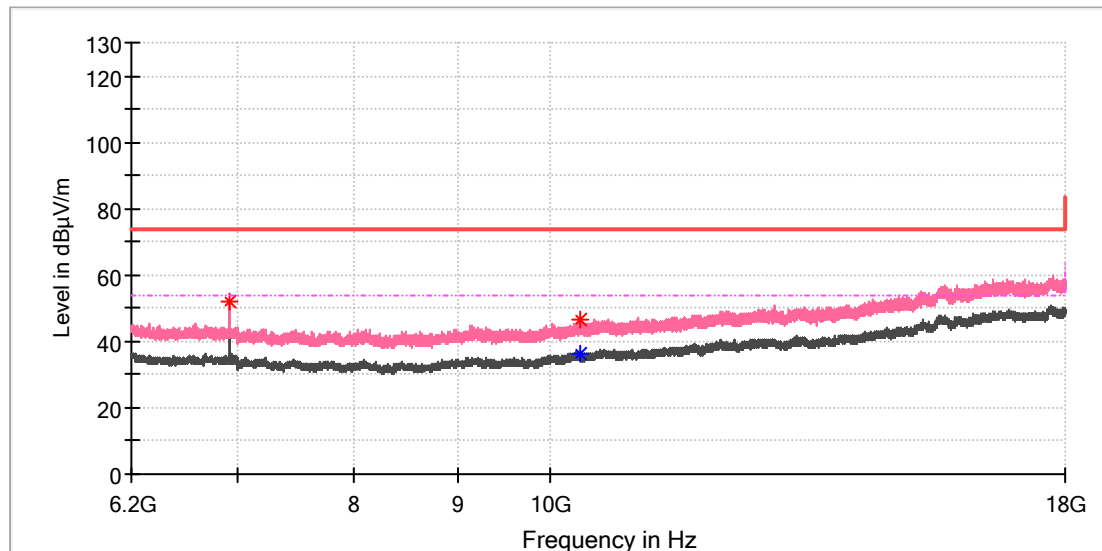
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
6933.075000	57.41	---	68.20	10.79	150.0	H	225.0	8.6
10630.408333	---	37.62	54.00	16.38	150.0	H	237.0	12.0
10645.650000	47.15	---	74.00	26.85	150.0	H	272.0	12.0

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:	SDR 5.2G_40M_5200MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

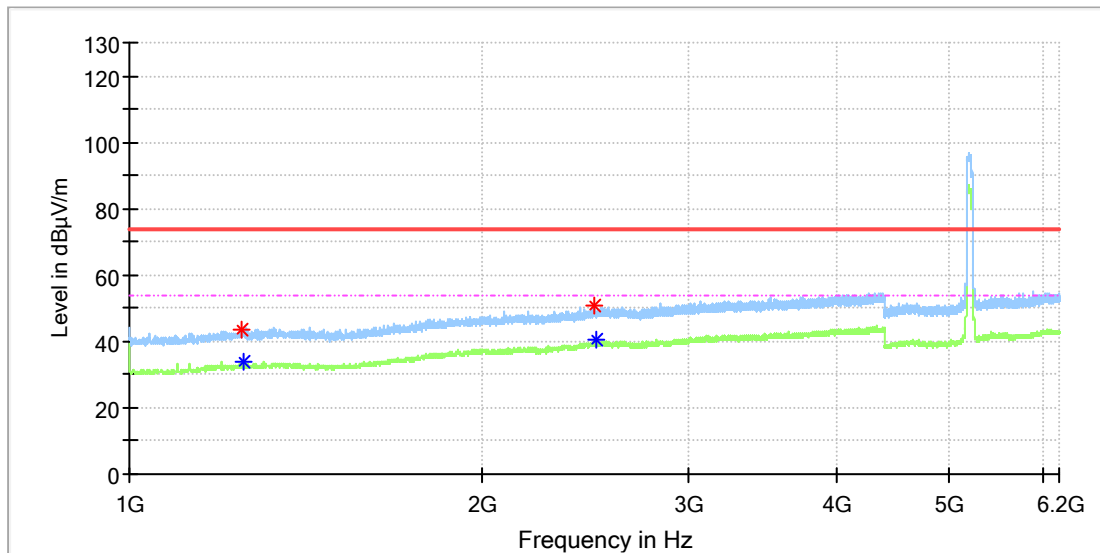
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
6933.075000	51.92	---	68.20	16.28	150.0	V	219.0	8.6
10343.275000	---	36.56	54.00	17.44	150.0	V	0.0	11.7
10343.766667	46.38	---	74.00	27.62	150.0	V	265.0	11.7

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	SDR 5.2G_60M_5200MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

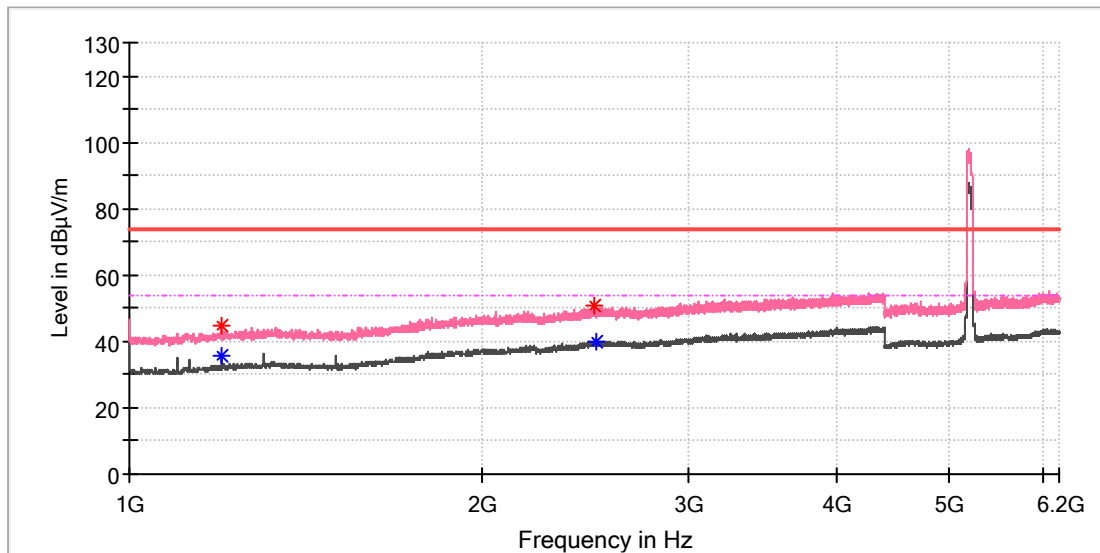
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1248.500000	43.78	---	74.00	30.22	150.0	H	356.0	1.9
1250.000000	---	34.07	54.00	19.93	150.0	H	332.0	1.9
2491.000000	50.63	---	74.00	23.37	150.0	H	308.0	7.4
2500.000000	---	40.48	54.00	13.52	150.0	H	172.0	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:	Controller
Model:	RC520
Test Mode:	SDR 5.2G_60M_5200MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

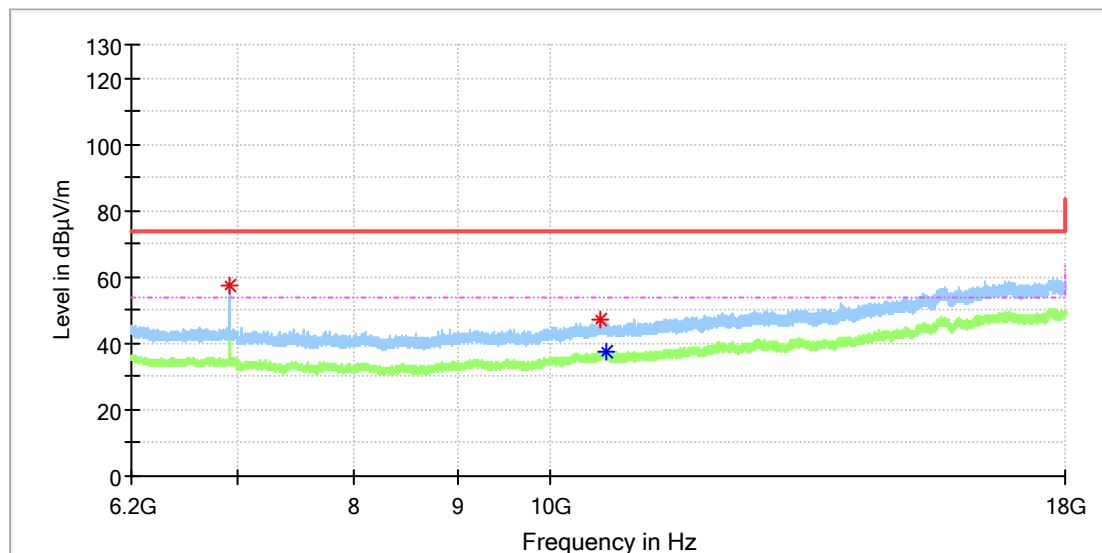
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1200.000000	44.61	---	74.00	29.39	150.0	V	260.0	1.1
1200.000000	---	35.40	54.00	18.60	150.0	V	260.0	1.1
2491.500000	50.74	---	74.00	23.26	150.0	V	234.0	7.4
2503.000000	---	40.16	54.00	13.84	150.0	V	241.0	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:	Controller
Model:	RC520
Test Mode:	SDR 5.2G_60M_5200MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

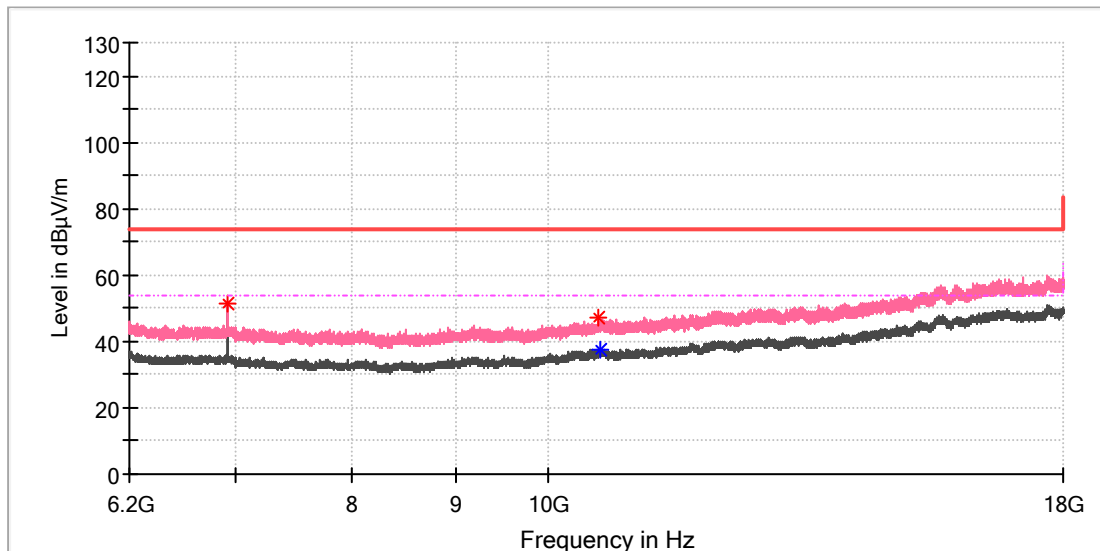
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
6933.075000	57.27	---	68.20	10.93	150.0	H	35.0	8.6
10592.058333	47.15	---	74.00	26.85	150.0	H	96.0	12.1
10652.533333	---	37.76	54.00	16.24	150.0	H	228.0	12.0

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:	SDR 5.2G_60M_5200MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

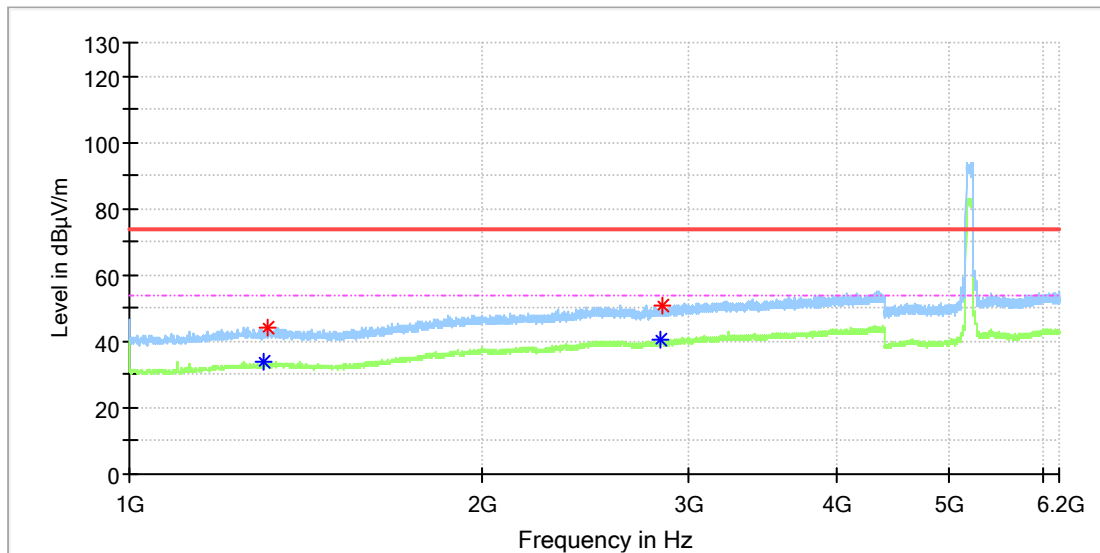
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
6933.075000	51.65	---	68.20	16.55	150.0	V	57.0	8.6
10590.583333	47.17	---	74.00	26.83	150.0	V	357.0	12.1
10608.775000	---	37.55	54.00	16.45	150.0	V	31.0	12.1

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:	SDR 5.2G_80M_5200MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

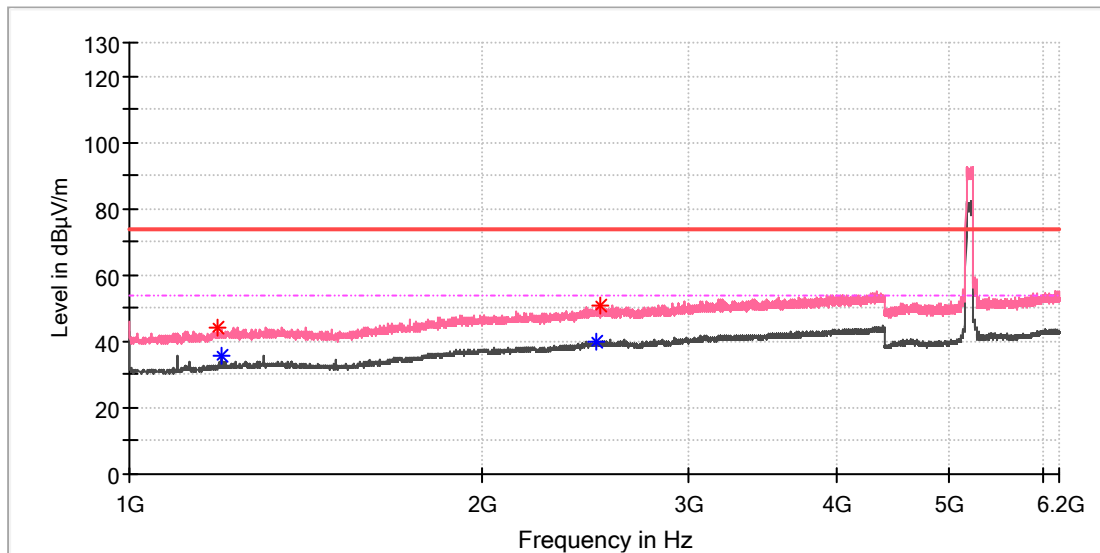
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1300.000000	---	33.96	54.00	20.04	150.0	H	252.0	1.9
1314.000000	44.25	---	74.00	29.75	150.0	H	0.0	2.0
2835.500000	---	40.21	54.00	13.79	150.0	H	227.0	8.1
2850.000000	50.88	---	74.00	23.12	150.0	H	266.0	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:	Controller
Model:	RC520
Test Mode:	SDR 5.2G_80M_5200MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

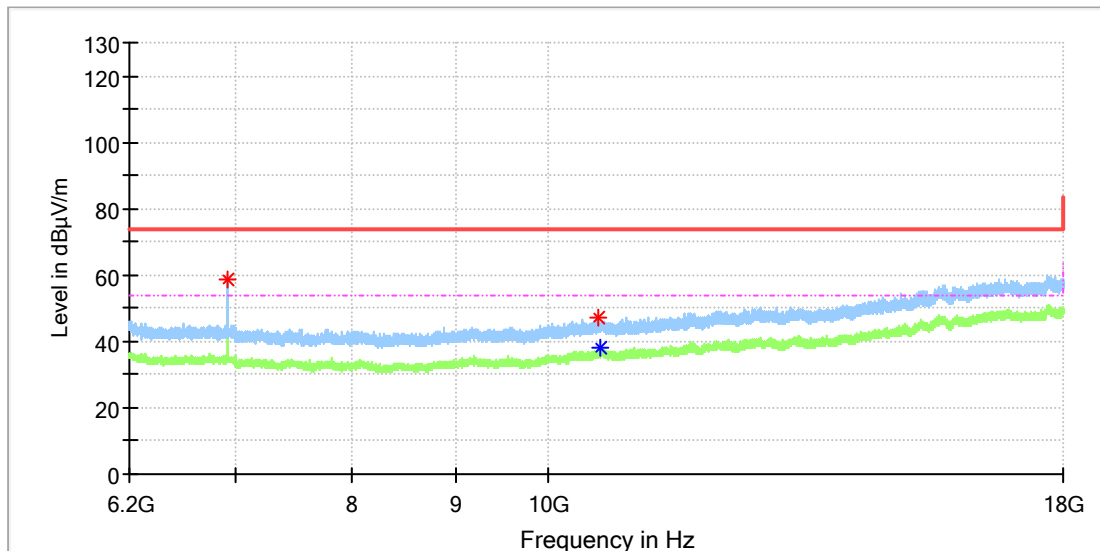
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1189.500000	44.41	---	74.00	29.59	150.0	V	322.0	1.1
1199.500000	---	35.92	54.00	18.08	150.0	V	354.0	1.1
2503.500000	---	40.08	54.00	13.92	150.0	V	74.0	7.4
2520.000000	50.99	---	74.00	23.01	150.0	V	293.0	7.5

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:	SDR 5.2G_80M_5200MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

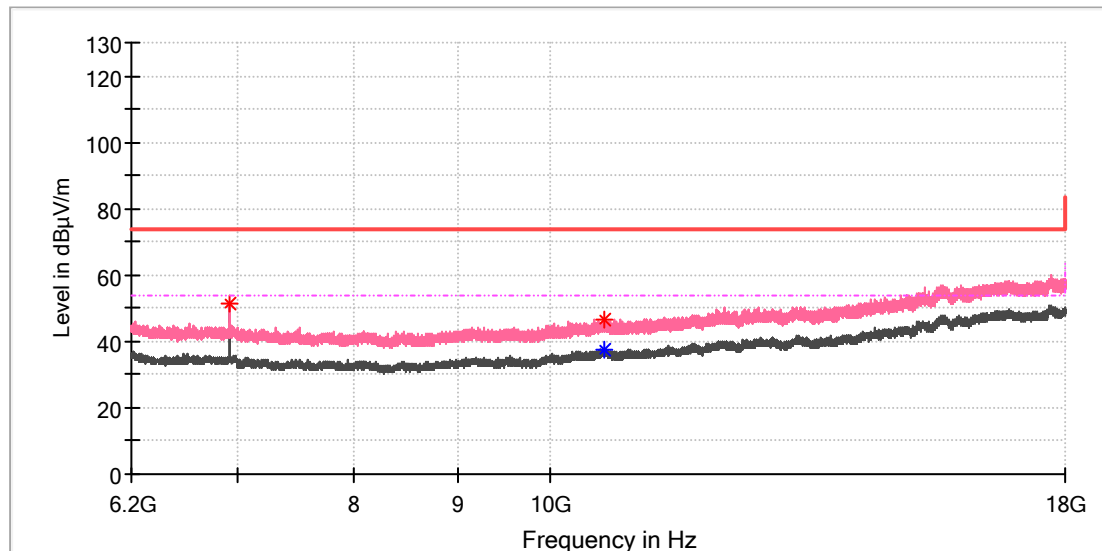
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
6933.075000	58.44	---	68.20	9.76	150.0	H	60.0	8.6
10589.108333	47.21	---	74.00	26.79	150.0	H	303.0	12.0
10602.383333	---	37.93	54.00	16.07	150.0	H	0.0	12.1

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:	SDR 5.2G_80M_5200MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
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)
6933.075000	51.58	---	68.20	16.62	150.0	V	115.0	8.6
10625.983333	46.29	---	74.00	27.71	150.0	V	0.0	12.0
10629.425000	---	37.66	54.00	16.34	150.0	V	54.0	12.0

Final Result

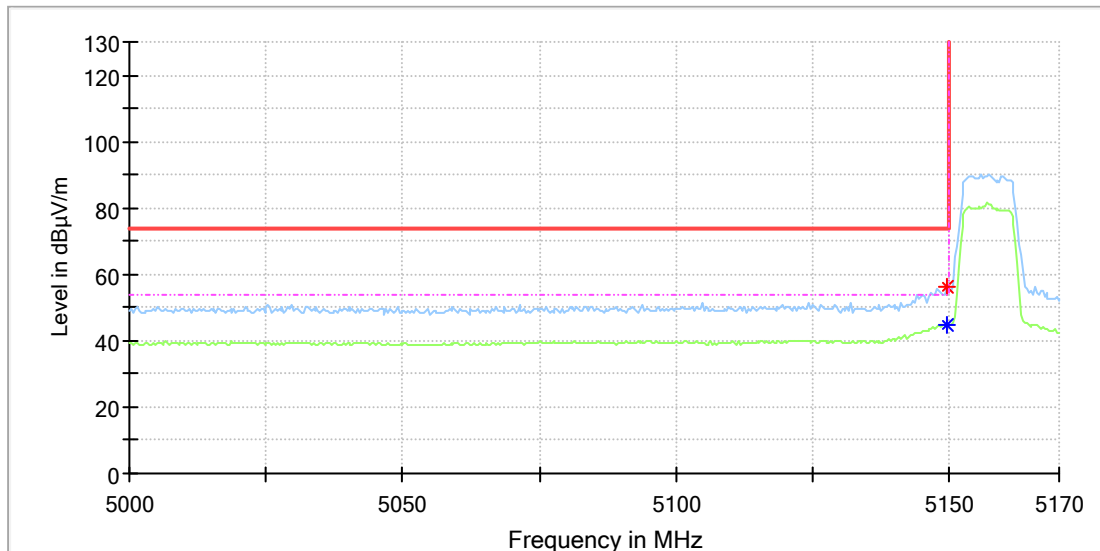
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

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

5.2GHz SDR, 10MHz BW

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	SDR 5.2G_10M_5157MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

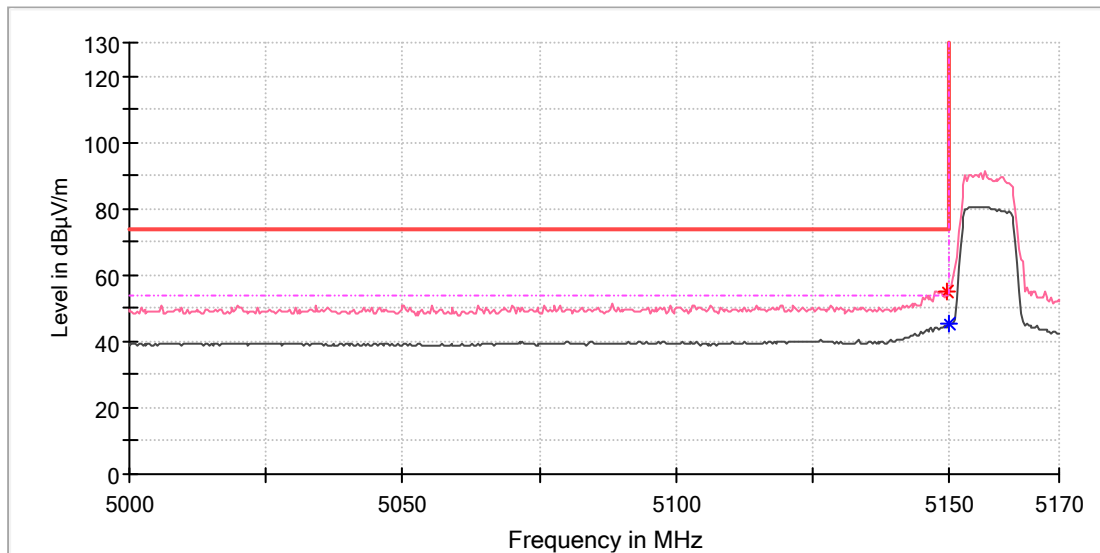
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5149.627778	56.11	---	74.00	17.89	150.0	H	146.0	12.4
5149.627778	---	45.02	54.00	8.98	150.0	H	146.0	12.4

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:	SDR 5.2G_10M_5157MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

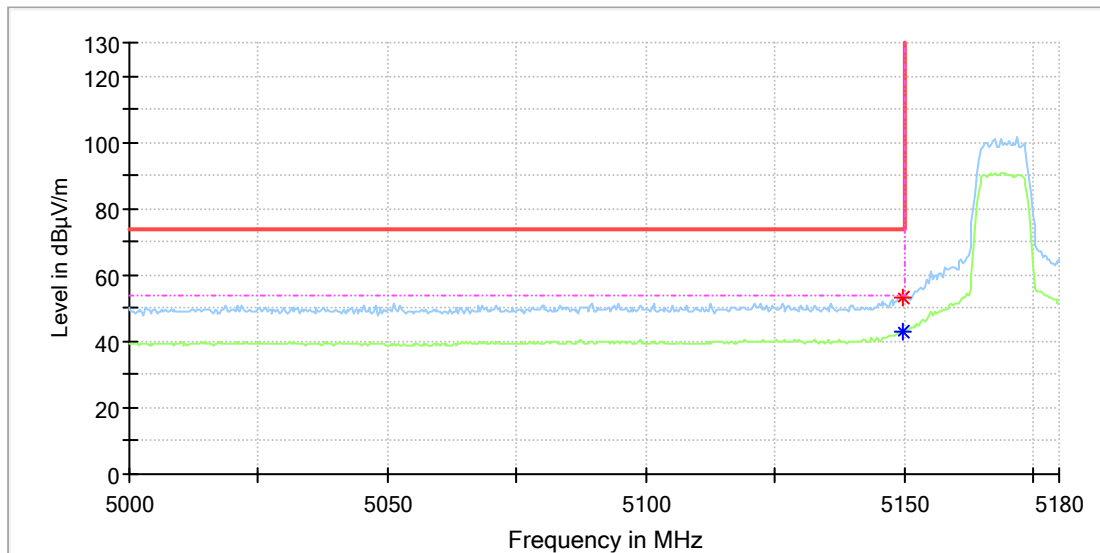
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5149.300000	54.90	---	74.00	19.10	150.0	V	193.0	12.4
5149.955556	---	45.18	54.00	8.82	150.0	V	187.0	12.4

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:	SDR 5.2G_10M_5169MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

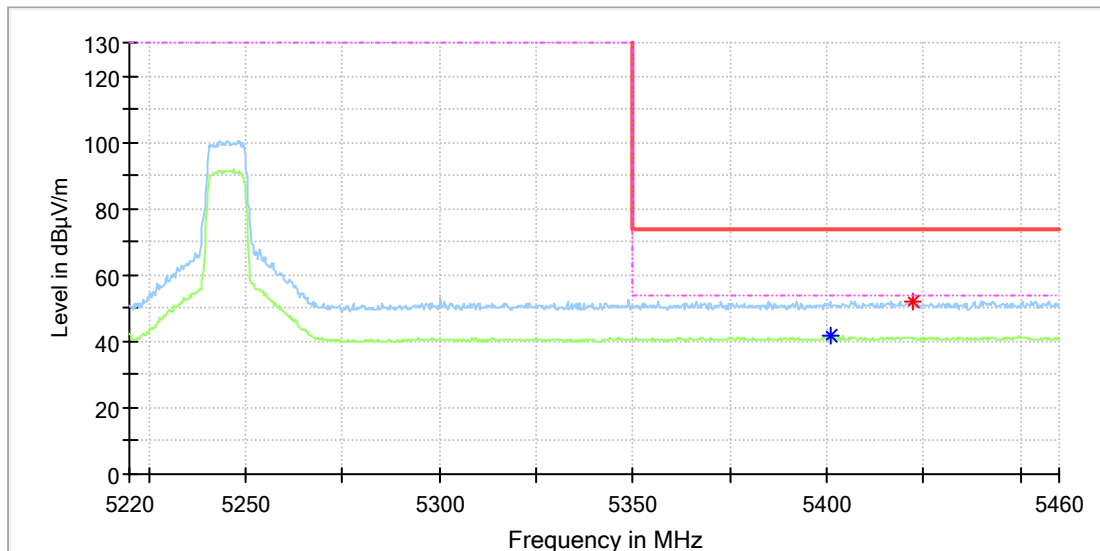
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5149.627778	53.24	---	74.00	20.76	150.0	H	175.0	12.4
5149.627778	---	42.94	54.00	11.06	150.0	H	175.0	12.4

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:	SDR 5.2G_10M_5245MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

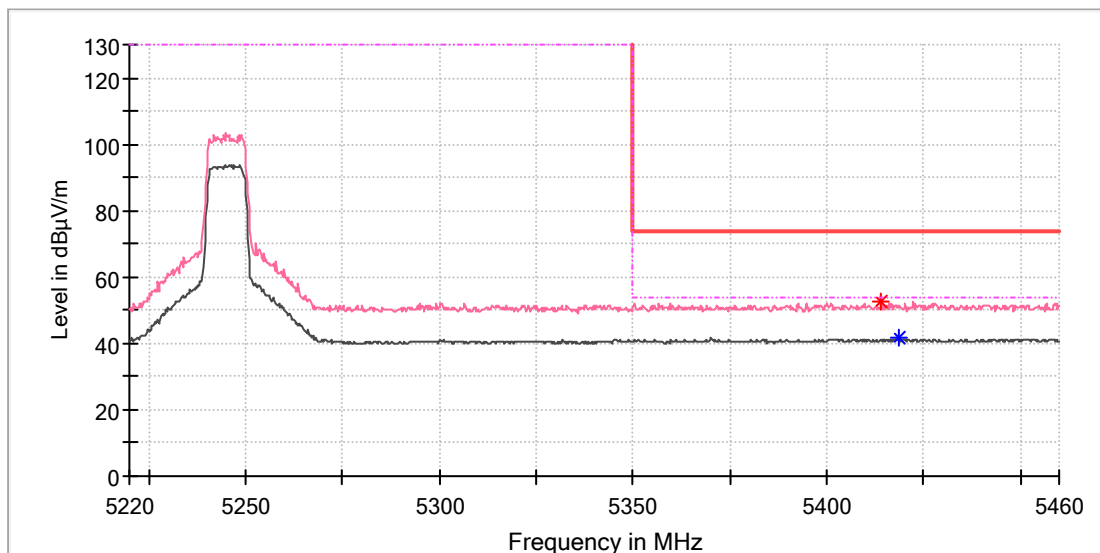
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5401.111111	---	42.00	54.00	12.00	150.0	H	226.0	13.5
5422.016667	52.22	---	74.00	21.78	150.0	H	356.0	13.5

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:	SDR 5.2G_10M_5245MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
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)
5414.066667	52.47	---	74.00	21.53	150.0	V	85.0	13.5
5418.777778	---	41.64	54.00	12.36	150.0	V	168.0	13.5

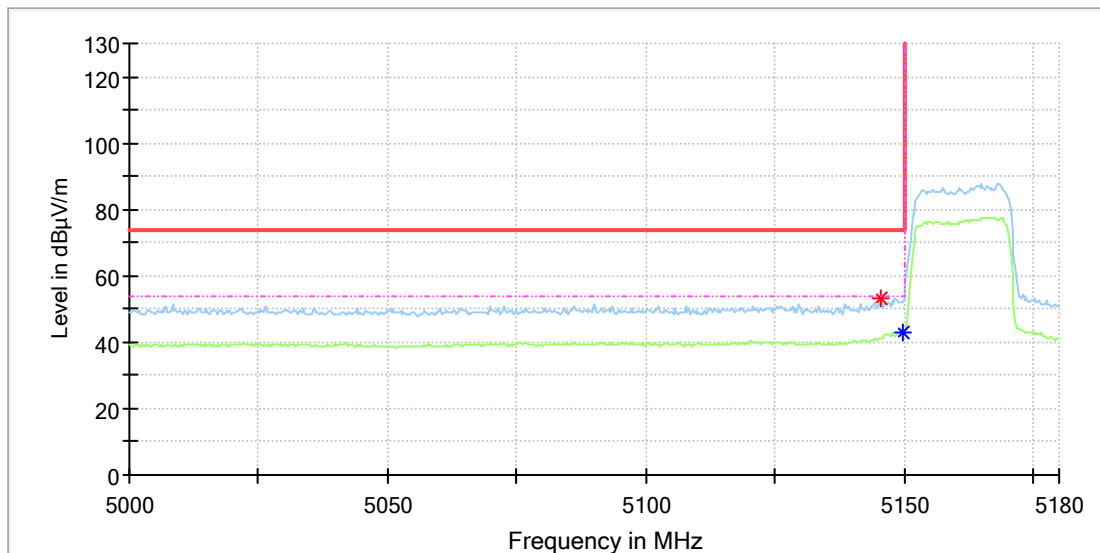
Final Result

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

5.2GHz SDR, 20MHz BW

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	SDR 5.2G_20M_5161MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

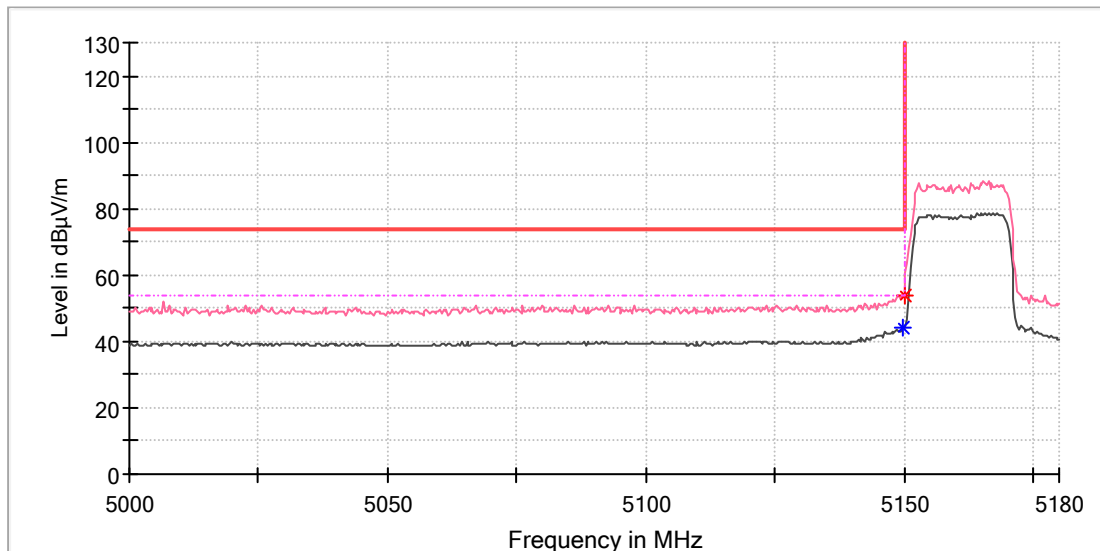
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5145.366667	53.45	---	74.00	20.55	150.0	H	164.0	12.4
5149.627778	---	43.08	54.00	10.92	150.0	H	343.0	12.4

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:	SDR 5.2G_20M_5161MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

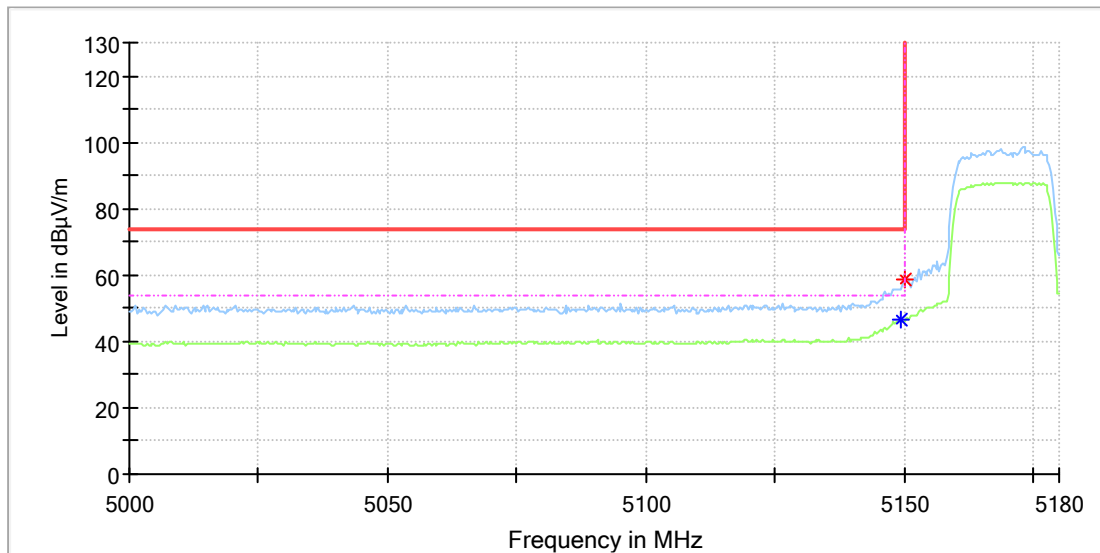
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5149.627778	---	43.94	54.00	10.06	150.0	V	180.0	12.4
5149.955556	53.86	---	74.00	20.14	150.0	V	186.0	12.4

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:	SDR 5.2G_20M_5169MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

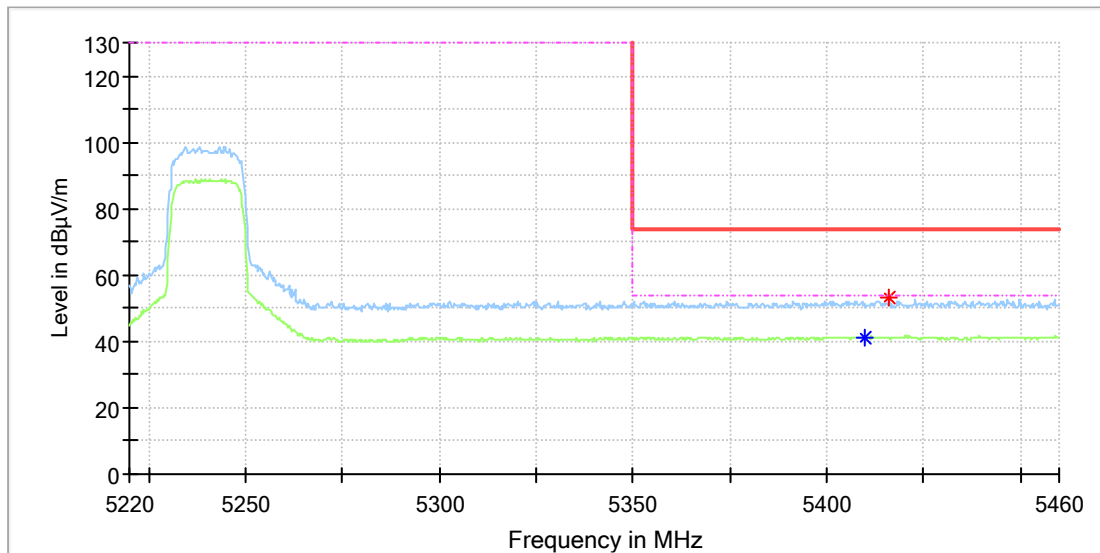
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5149.300000	---	46.29	54.00	7.71	150.0	H	33.0	12.4
5149.955556	58.64	---	74.00	15.36	150.0	H	146.0	12.4

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:	SDR 5.2G_20M_5240MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

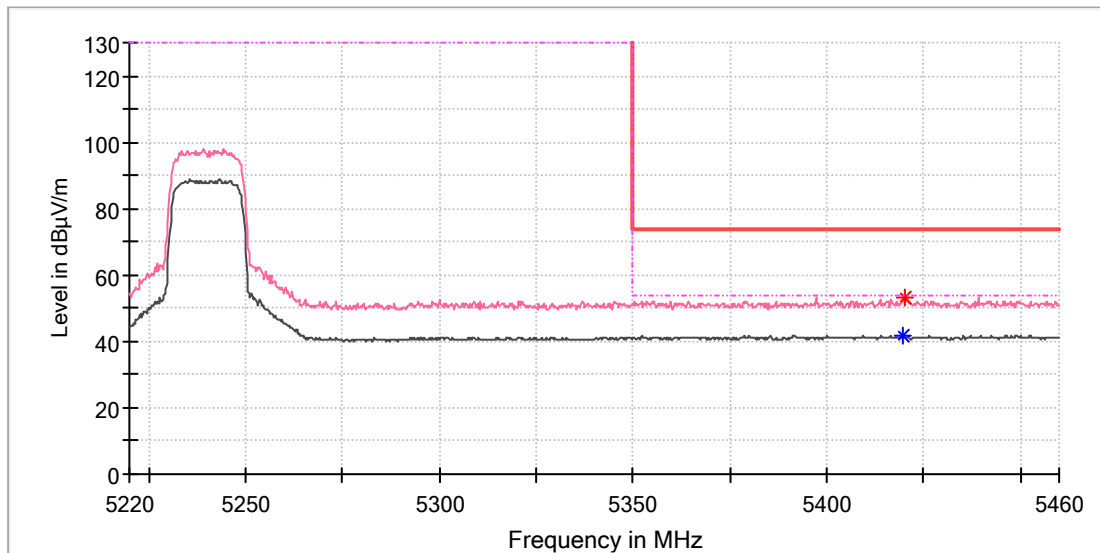
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5409.944444	---	41.32	54.00	12.68	150.0	H	44.0	13.5
5416.127778	52.91	---	74.00	21.09	150.0	H	158.0	13.5

Final Result

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

EUT Name:	Controller
Model:	RC520
Test Mode:	SDR 5.2G_20M_5240MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
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)
5419.661111	---	41.65	54.00	12.35	150.0	V	359.0	13.5
5419.955556	53.35	---	74.00	20.65	150.0	V	243.0	13.5

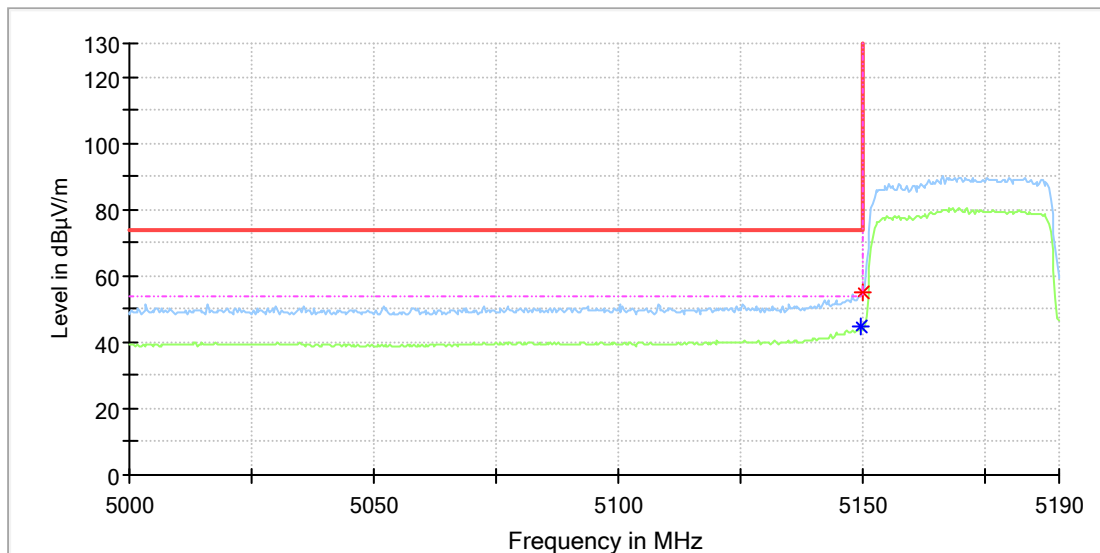
Final Result

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

5.2GHz SDR, 40MHz BW

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	SDR 5.2G_40M_5170MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

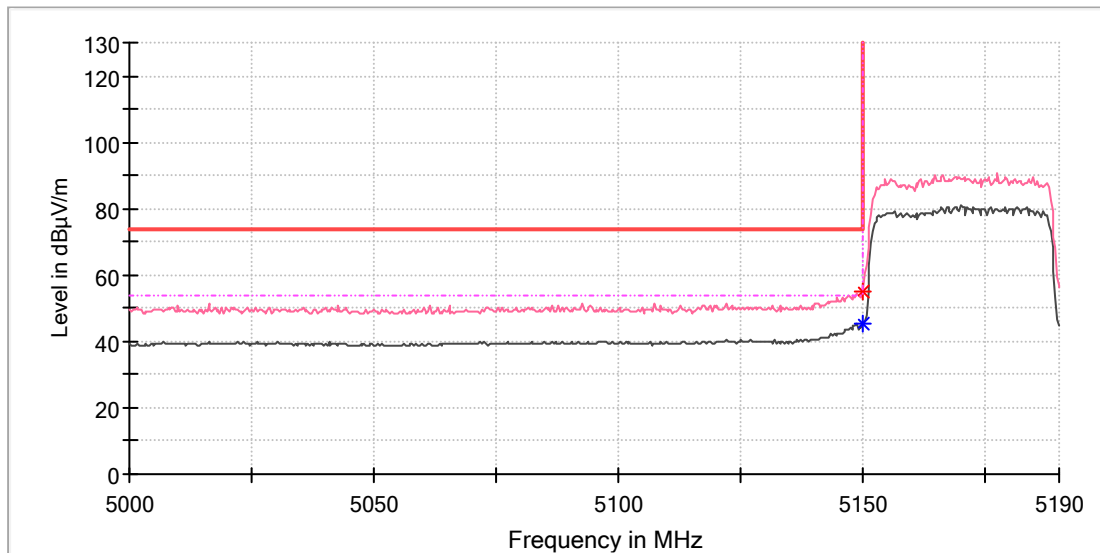
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5149.300000	---	44.50	54.00	9.50	150.0	H	34.0	12.4
5149.955556	55.22	---	74.00	18.78	150.0	H	34.0	12.4

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:	SDR 5.2G_40M_5170MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

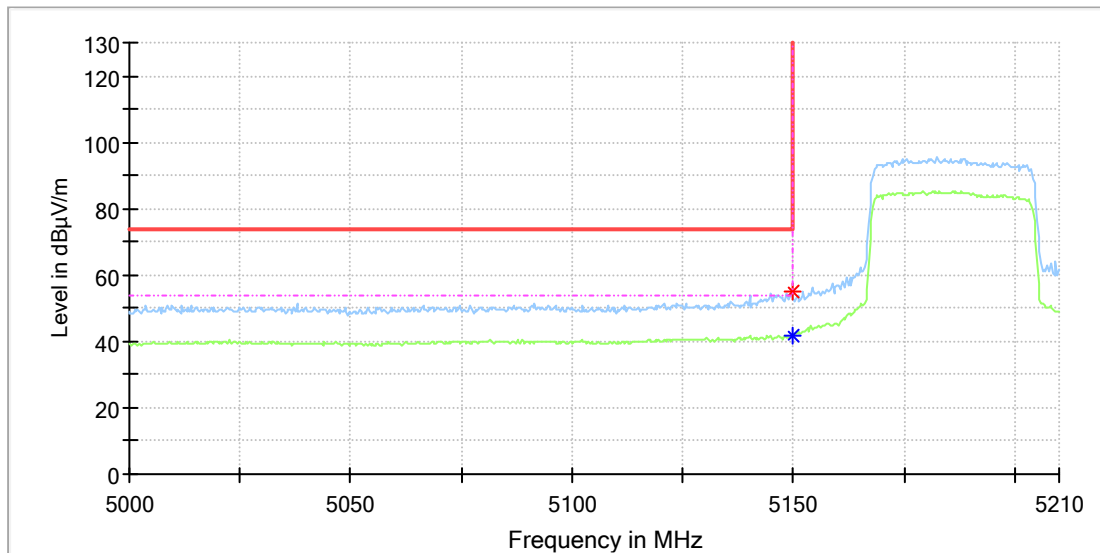
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5149.955556	---	45.43	54.00	8.57	150.0	V	183.0	12.4
5149.955556	54.86	---	74.00	19.14	150.0	V	183.0	12.4

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:	Controller
Model:	RC520
Test Mode:	SDR 5.2G_40M_5186MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

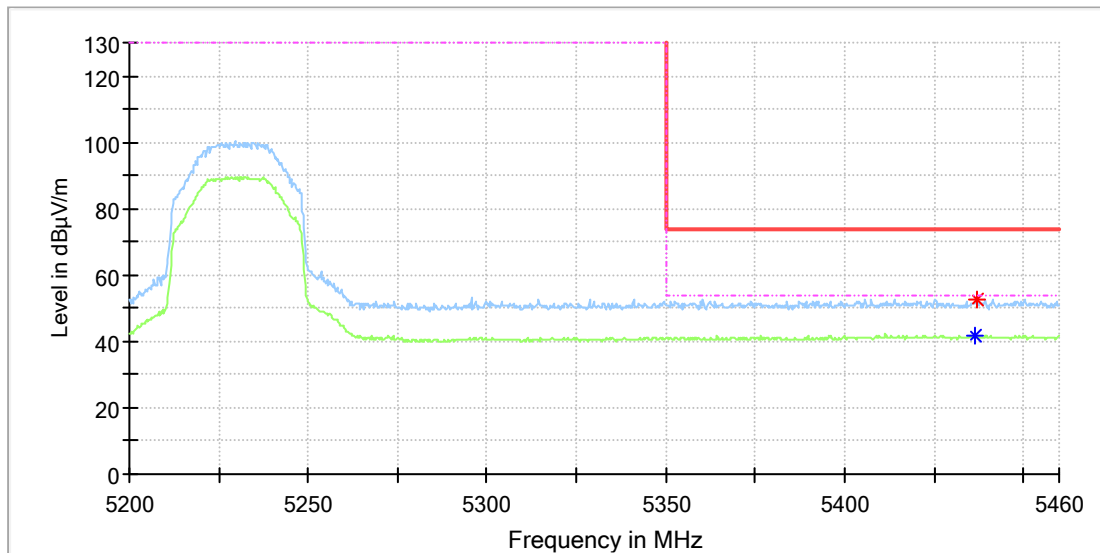
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5149.627778	54.97	---	74.00	19.03	150.0	H	184.0	12.4
5149.627778	---	41.87	54.00	12.13	150.0	H	184.0	12.4

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:	SDR 5.2G_40M_5230MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

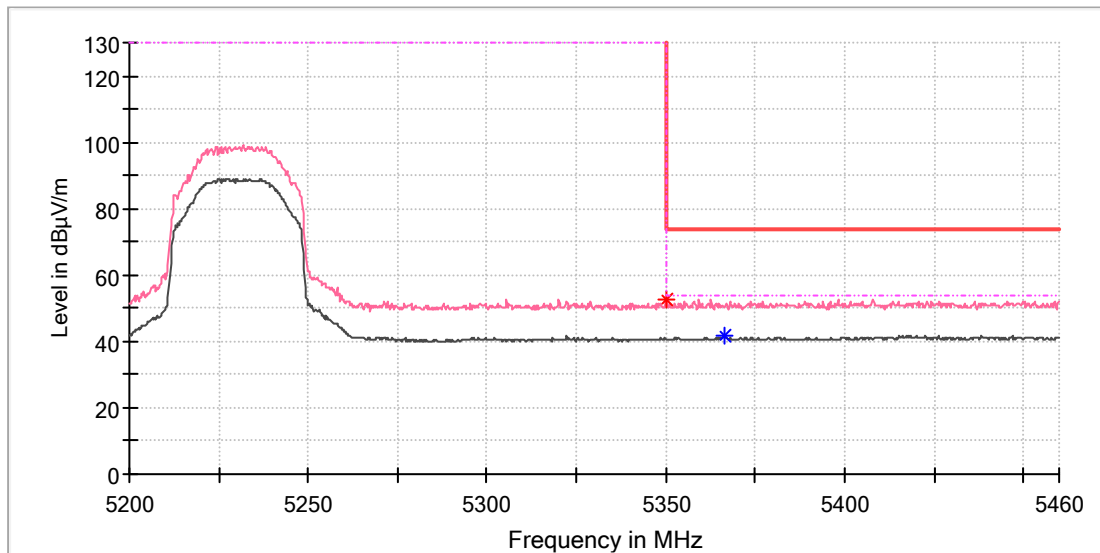
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5436.444444	---	41.68	54.00	12.32	150.0	H	338.0	13.5
5437.033333	52.89	---	74.00	21.11	150.0	H	242.0	13.5

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:	SDR 5.2G_40M_5230MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
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)
5350.172222	52.65	---	74.00	21.35	150.0	V	181.0	13.3
5366.366667	---	41.50	54.00	12.50	150.0	V	13.0	13.3

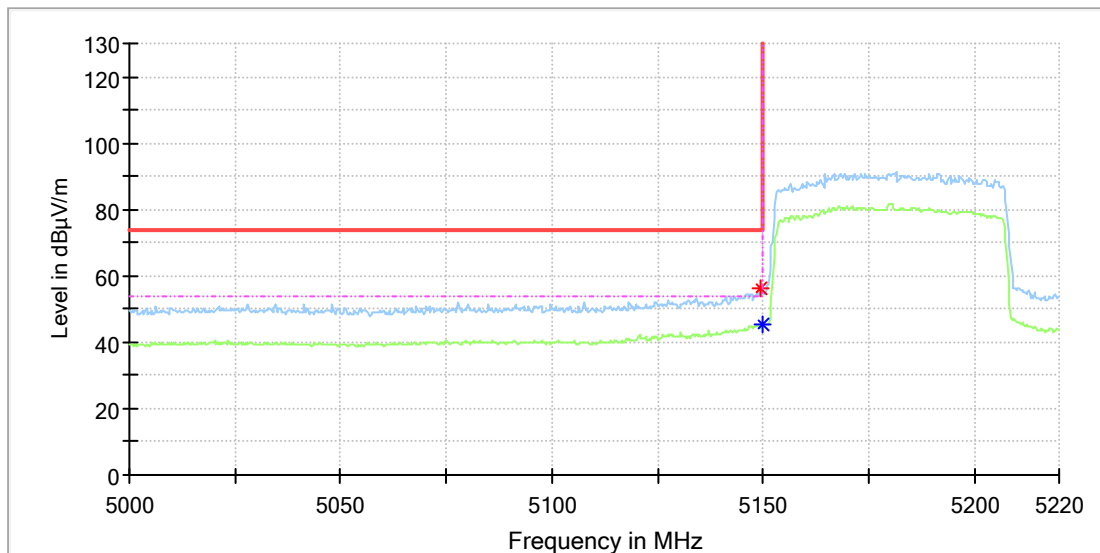
Final Result

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

5.2GHz SDR, 60MHz BW

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	SDR 5.2G_60M_5180MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

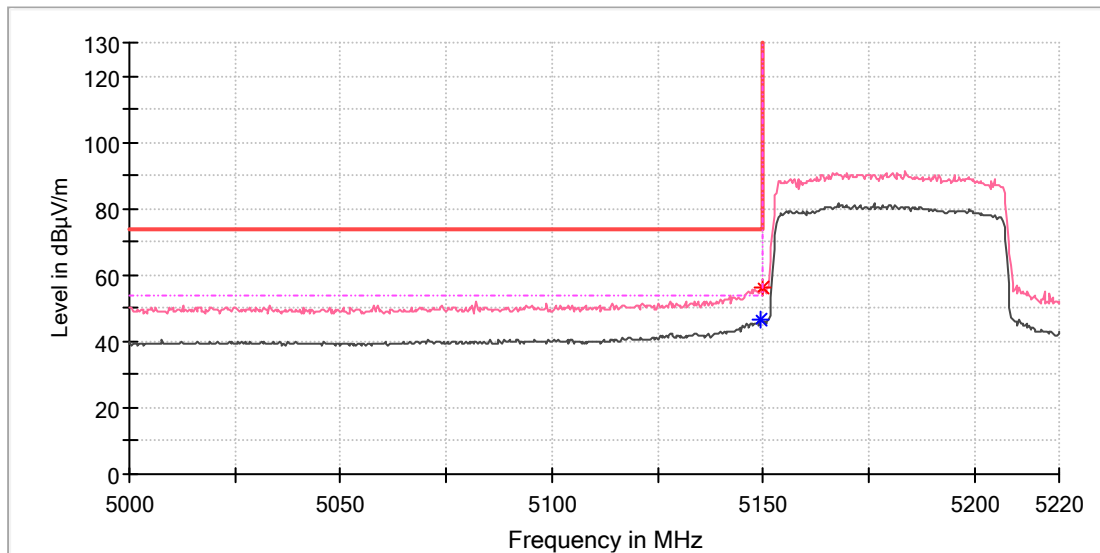
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5149.300000	56.42	---	74.00	17.58	150.0	H	337.0	12.4
5149.955556	---	45.25	54.00	8.75	150.0	H	29.0	12.4

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:	SDR 5.2G_60M_5180MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

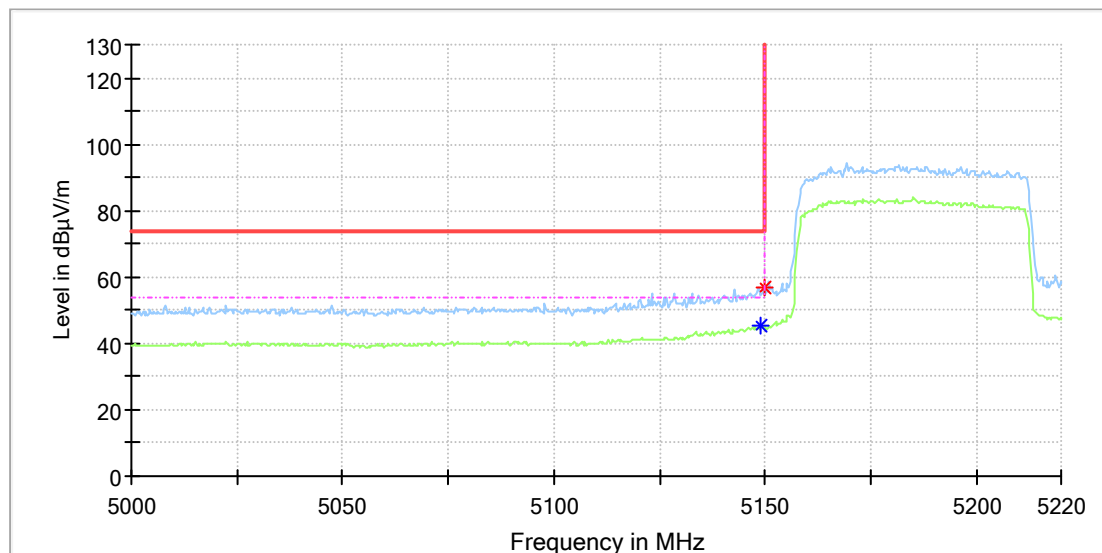
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5149.300000	---	46.51	54.00	7.49	150.0	V	186.0	12.4
5149.627778	56.07	---	74.00	17.93	150.0	V	186.0	12.4

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:	Controller
Model:	RC520
Test Mode:	SDR 5.2G_60M_5185MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

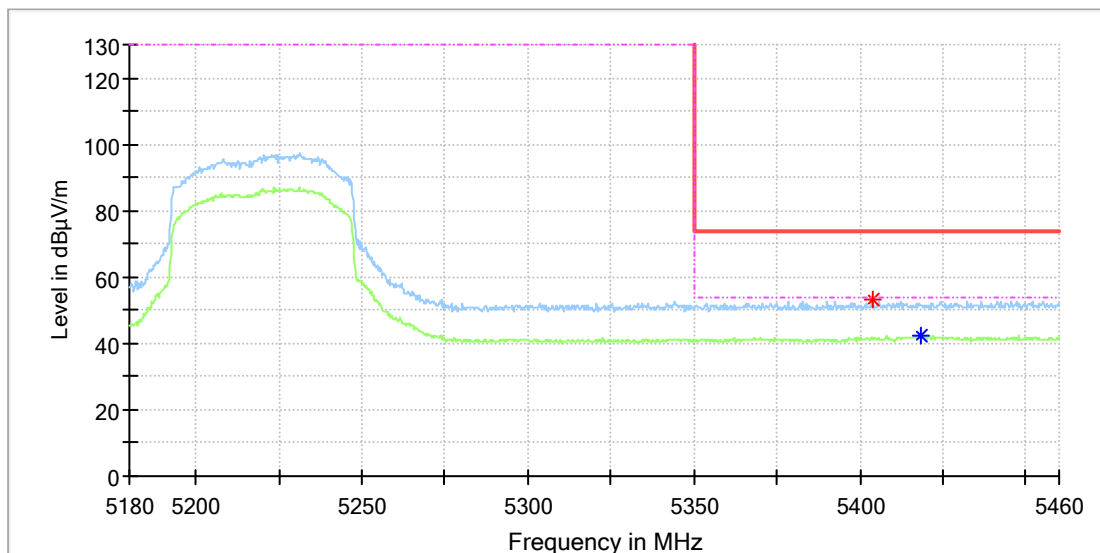
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5148.972222	---	45.30	54.00	8.70	150.0	H	155.0	12.4
5149.627778	57.11	---	74.00	16.89	150.0	H	26.0	12.4

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:	Controller
Model:	RC520
Test Mode:	SDR 5.2G_60M_5220MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

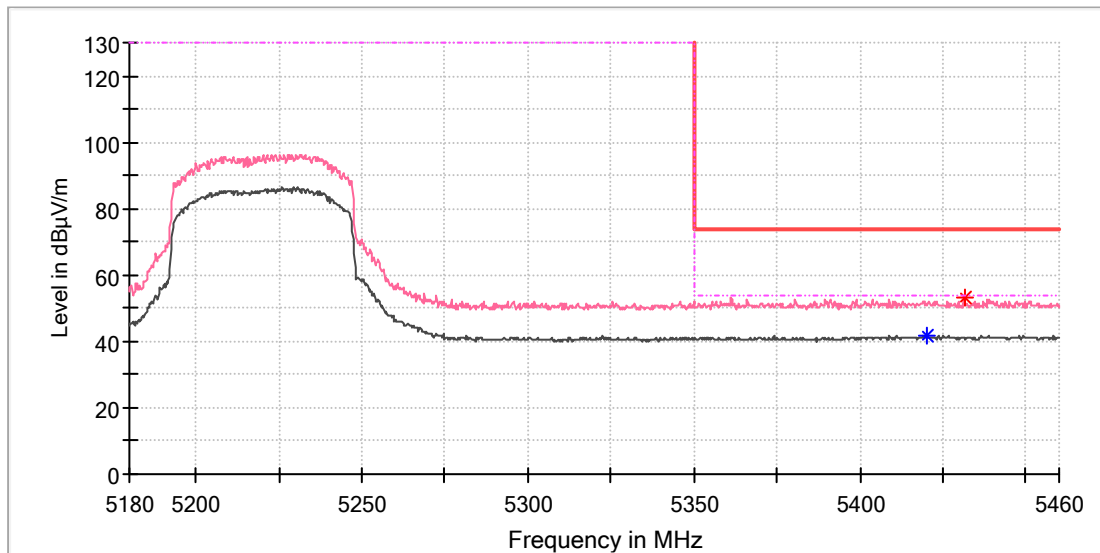
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5403.761111	53.19	---	74.00	20.81	150.0	H	61.0	13.5
5418.483333	---	42.45	54.00	11.55	150.0	H	61.0	13.5

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:	SDR 5.2G_60M_5220MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
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)
5419.955556	---	41.71	54.00	12.29	150.0	V	24.0	13.5
5431.438889	53.42	---	74.00	20.58	150.0	V	350.0	13.5

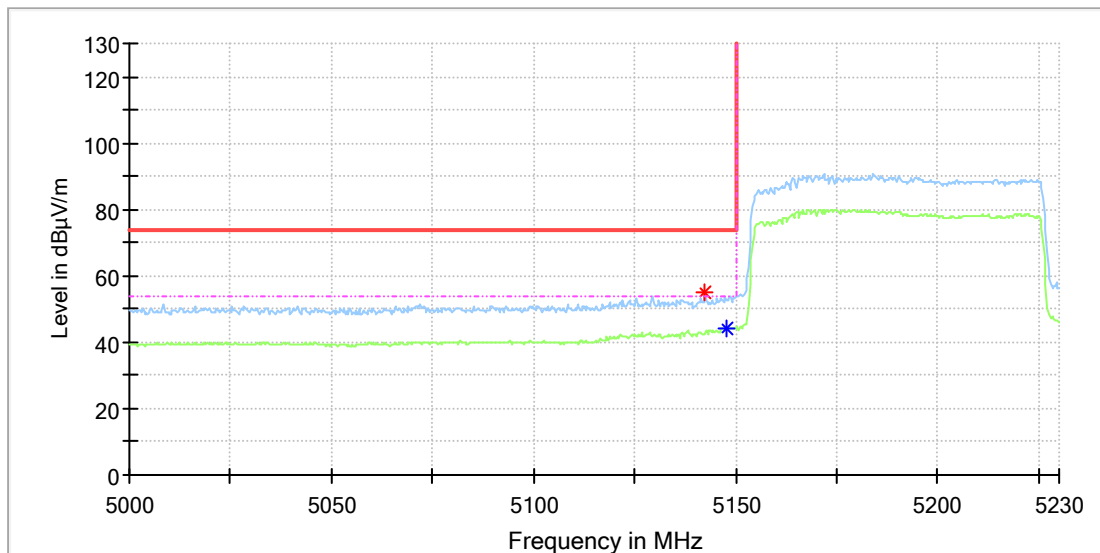
Final Result

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

5.2GHz SDR, 80MHz BW

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	SDR 5.2G_80M_5190MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

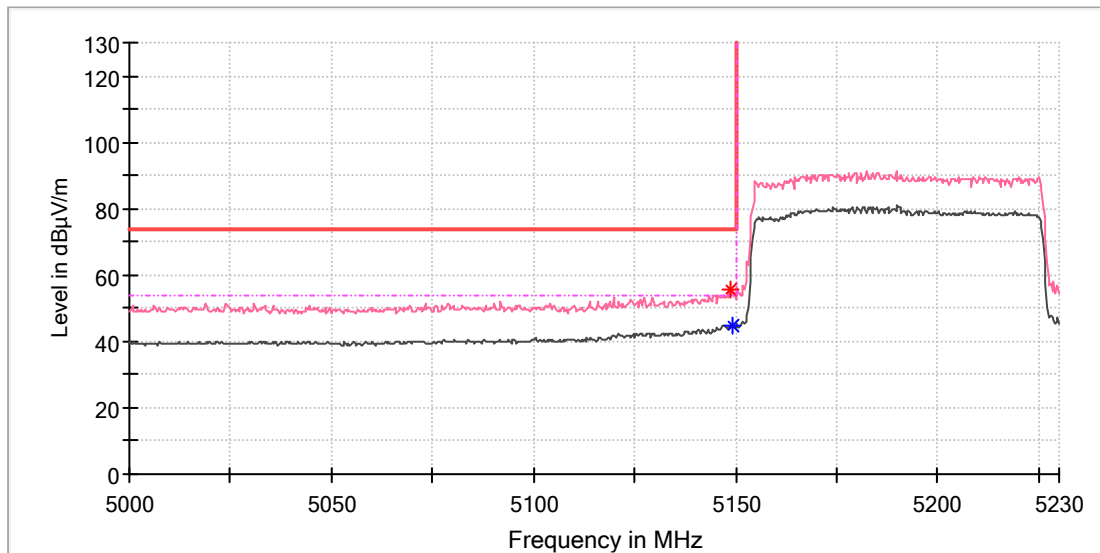
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5142.416667	55.07	---	74.00	18.93	150.0	H	66.0	12.4
5147.661111	---	44.39	54.00	9.61	150.0	H	162.0	12.4

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:	SDR 5.2G_80M_5190MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

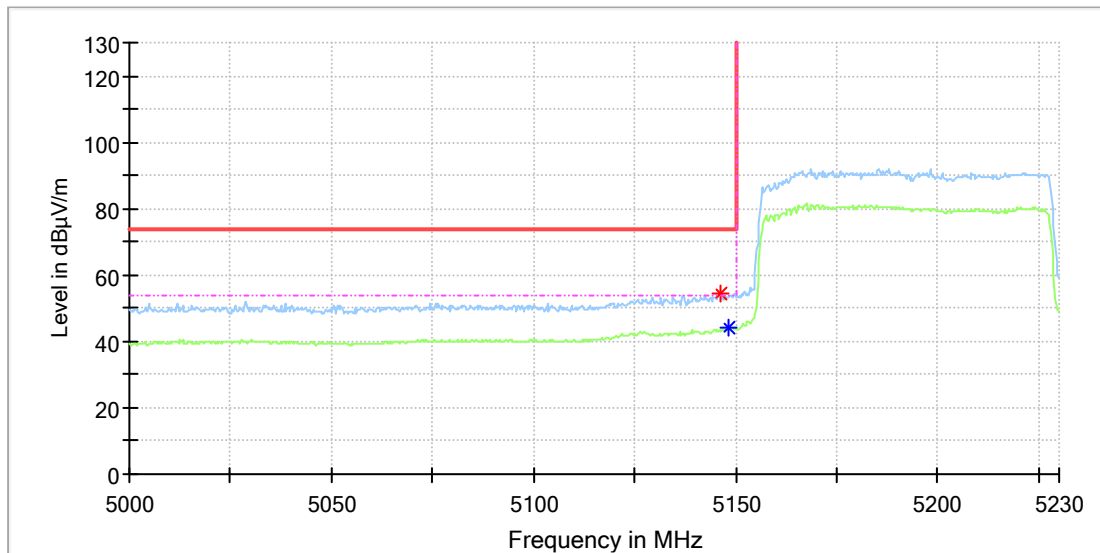
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5148.644445	55.41	---	74.00	18.59	150.0	V	185.0	12.4
5148.972222	---	44.73	54.00	9.27	150.0	V	185.0	12.4

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:	SDR 5.2G_80M_5192MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

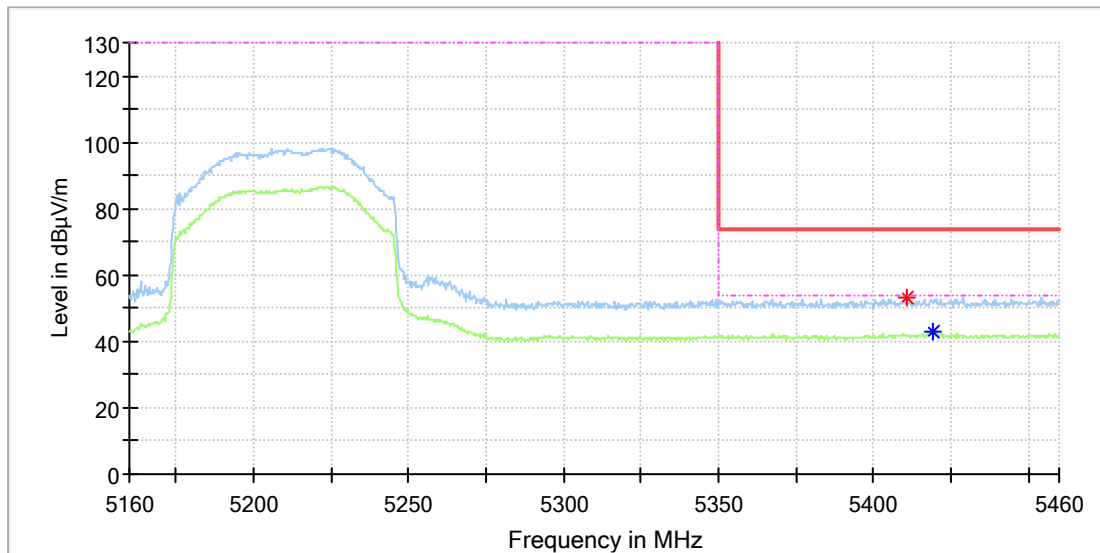
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5146.022222	54.40	---	74.00	19.60	150.0	H	341.0	12.4
5148.316667	---	44.21	54.00	9.79	150.0	H	333.0	12.4

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:	SDR 5.2G_80M_5210MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

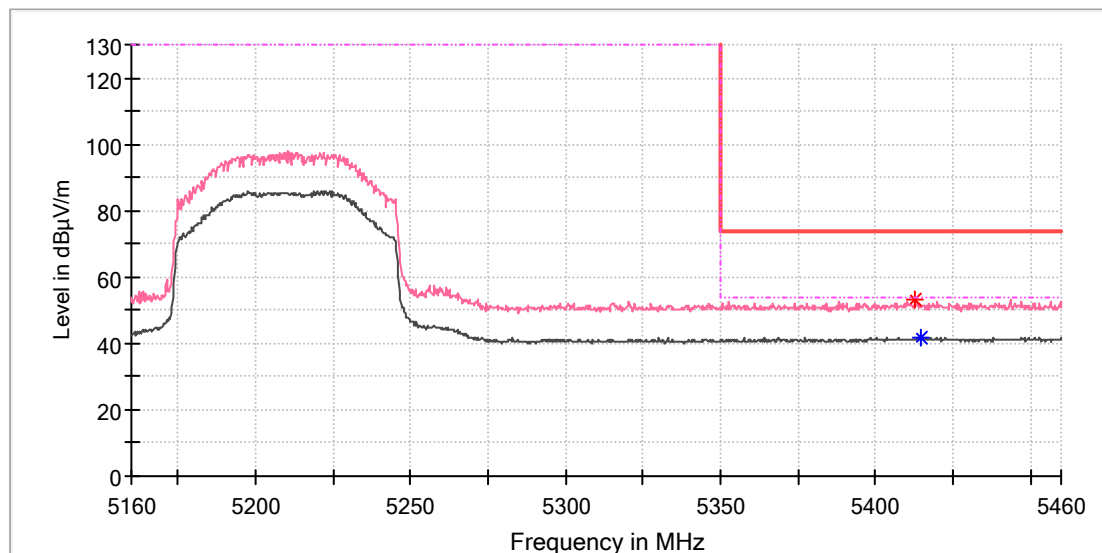
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5411.122222	53.28	---	74.00	20.72	150.0	H	31.0	13.5
5419.072222	---	42.88	54.00	11.12	150.0	H	56.0	13.5

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:	SDR 5.2G_80M_5210MHz
Order No/Sample No:	168484699/A003743309-004
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
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)
5412.888889	53.20	---	74.00	20.80	150.0	V	129.0	13.5
5414.655556	---	41.97	54.00	12.03	150.0	V	135.0	13.5

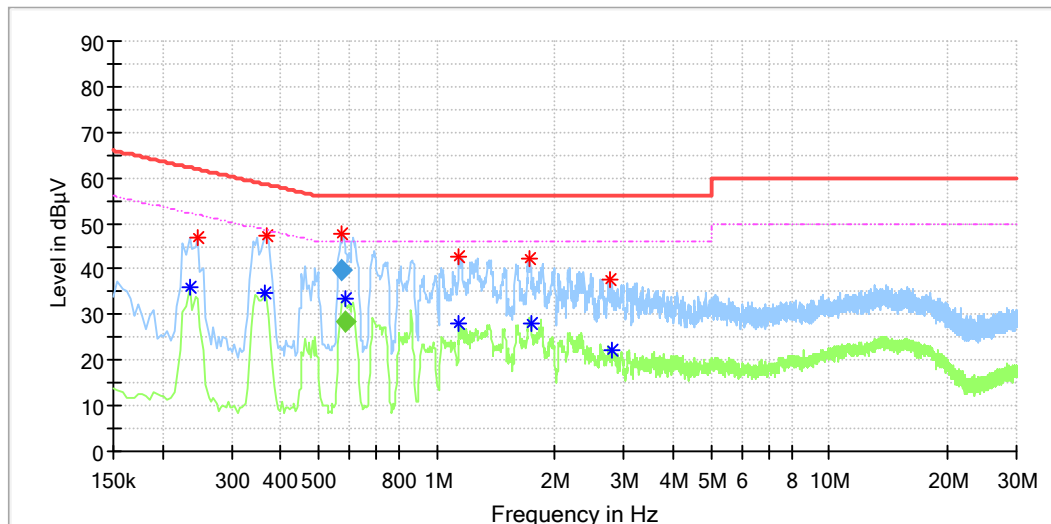
Final Result

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

EUT Information

EUT Name:	Controller
Order Number:	168484699
Model:	RC520
Test Mode:	5G SDR 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

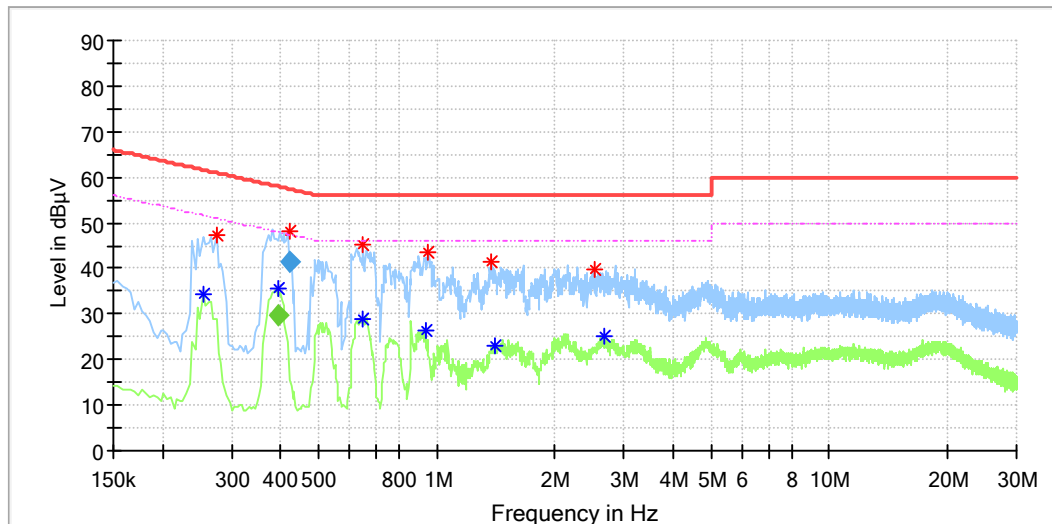
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.234000	---	36.19	52.31	16.11	L1	9.9
0.246000	46.90	---	61.89	14.99	L1	9.9
0.366000	---	34.87	48.59	13.72	L1	9.9
0.370000	47.44	---	58.50	11.06	L1	9.9
0.573500	47.72	---	56.00	8.28	L1	10.0
0.582500	---	33.29	46.00	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: 5G SDR 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