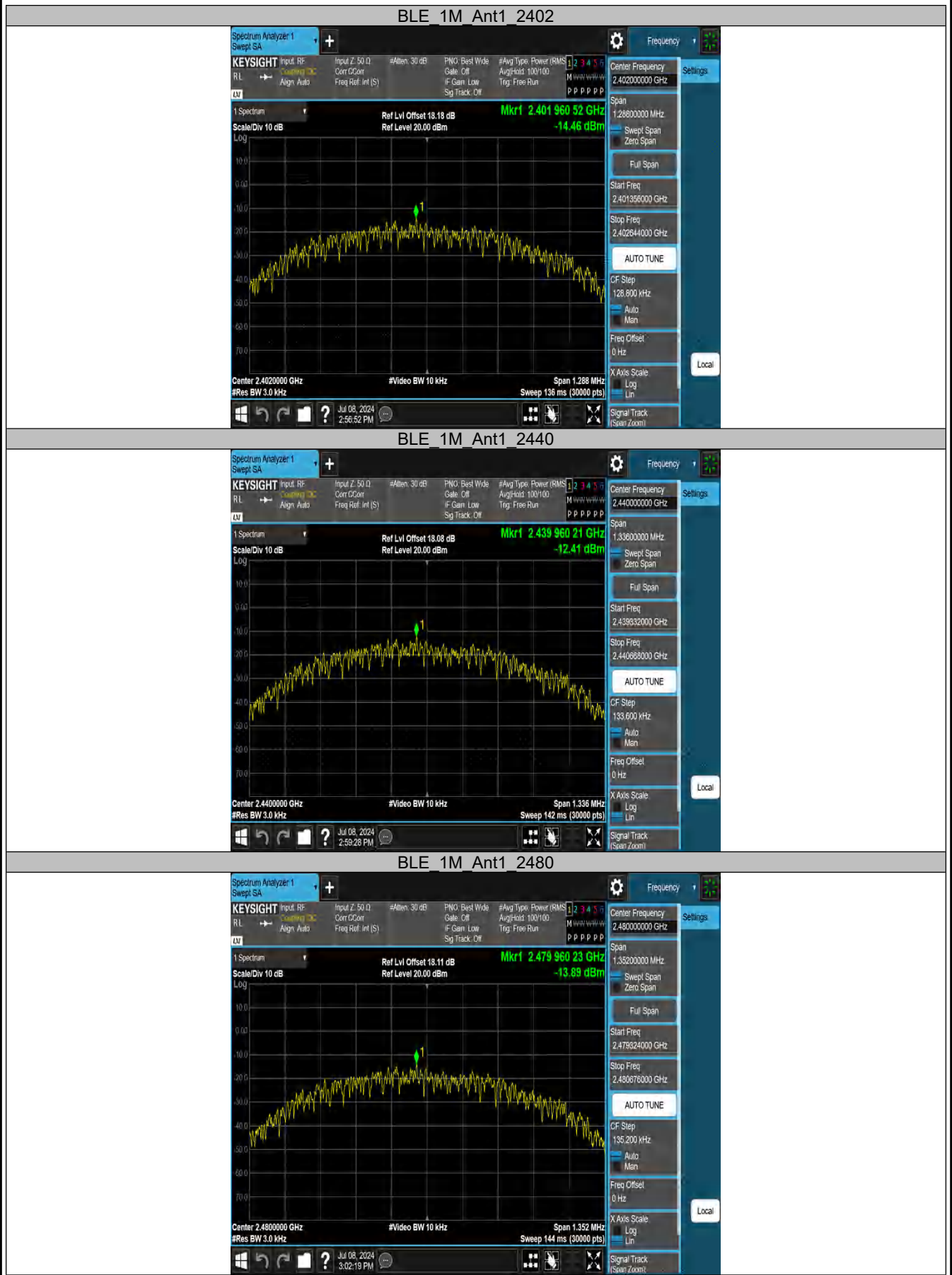


Appendix B: Test Results of Bluetooth Low Energy

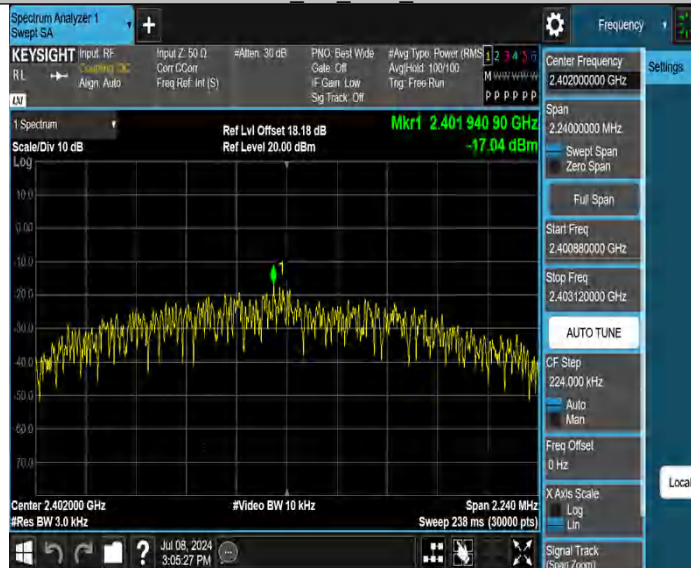
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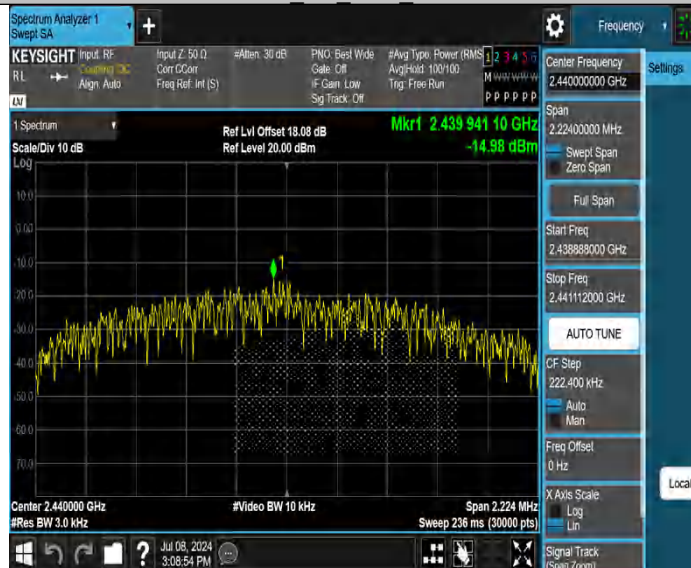
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.46	≤8.00	PASS
		2440	-12.41	≤8.00	PASS
		2480	-13.90	≤8.00	PASS
BLE_2M	Ant1	2402	-17.04	≤8.00	PASS
		2440	-14.98	≤8.00	PASS
		2480	-16.53	≤8.00	PASS



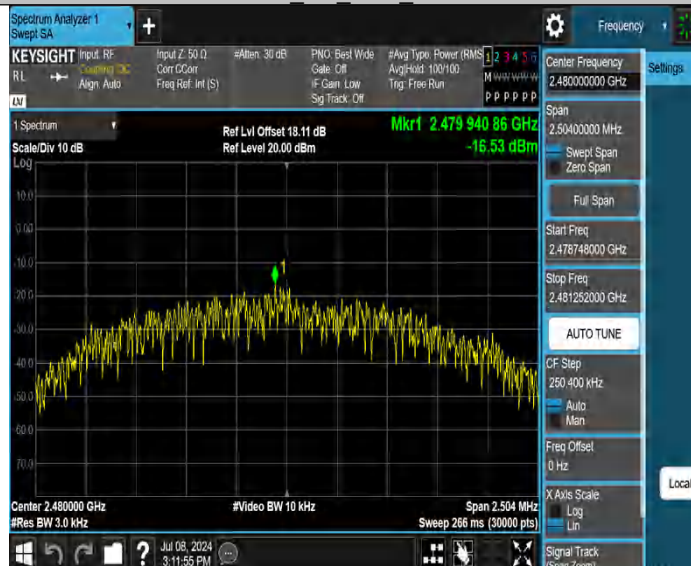
BLE 2M Ant1 2402



BLE 2M Ant1 2440



BLE 2M Ant1 2480



Appendix B.2: Test Results of 6dB Bandwidth

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.644	2401.656	2402.300	0.5	PASS
		2440	0.668	2439.644	2440.312	0.5	PASS
		2480	0.676	2479.636	2480.312	0.5	PASS
BLE_2M	Ant1	2402	1.120	2401.428	2402.548	0.5	PASS
		2440	1.112	2439.412	2440.524	0.5	PASS
		2480	1.252	2479.312	2480.564	0.5	PASS

BLE 1M Ant1 2402



BLE 1M Ant1 2440



BLE 1M Ant1 2480



BLE 2M Ant1 2402



BLE 2M Ant1 2440



BLE 2M Ant1 2480

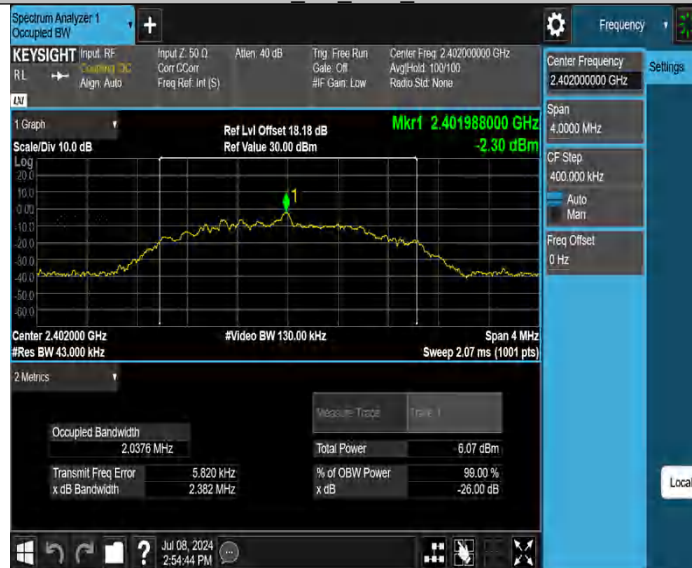


Appendix B.3: Test Results of 99% Bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0473	2401.4643	2402.5116	---	PASS
		2440	1.0376	2439.4734	2440.5110	---	PASS
		2480	1.0447	2479.4681	2480.5128	---	PASS
BLE_2M	Ant1	2402	2.0376	2400.9870	2403.0246	---	PASS
		2440	2.0341	2438.9909	2441.0250	---	PASS
		2480	2.0351	2478.9850	2481.0201	---	PASS



BLE 2M Ant1 2402



BLE 2M Ant1 2440



BLE 2M Ant1 2480



Appendix B.4: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

Band Edge

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.21	-45.44	≤-19.79	PASS
		High	2480	0.65	-42.21	≤-19.32	PASS
BLE_2M	Ant1	Low	2402	0.20	-44.67	≤-19.80	PASS
		High	2480	-0.27	-43.25	≤-20.27	PASS



BLE 2M Ant1 Low 2402



BLE 2M Ant1 High 2480



Conducted Spurious Emission

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-0.41	-0.41	---	PASS
			30~1000	-0.41	-41.71	≤-20.41	PASS
			1000~26500	-0.41	-32.44	≤-20.41	PASS
		2440	Reference	1.74	1.74	---	PASS
			30~1000	1.74	-41.23	≤-18.26	PASS
			1000~26500	1.74	-32.45	≤-18.26	PASS
		2480	Reference	0.40	0.40	---	PASS
			30~1000	0.40	-41.22	≤-19.6	PASS
			1000~26500	0.40	-31.74	≤-19.6	PASS
BLE_2M	Ant1	2402	Reference	-0.95	-0.95	---	PASS
			30~1000	-0.95	-41.89	≤-20.95	PASS
			1000~26500	-0.95	-31.32	≤-20.95	PASS
		2440	Reference	2.11	2.11	---	PASS
			30~1000	2.11	-41.03	≤-17.89	PASS
			1000~26500	2.11	-32.6	≤-17.89	PASS
		2480	Reference	0.17	0.17	---	PASS
			30~1000	0.17	-41.99	≤-19.83	PASS
			1000~26500	0.17	-32.57	≤-19.83	PASS

BLE 1M Ant1 2402 0~Reference



BLE 1M Ant1 2402 30~1000



BLE 1M Ant1 2402 1000~26500



BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



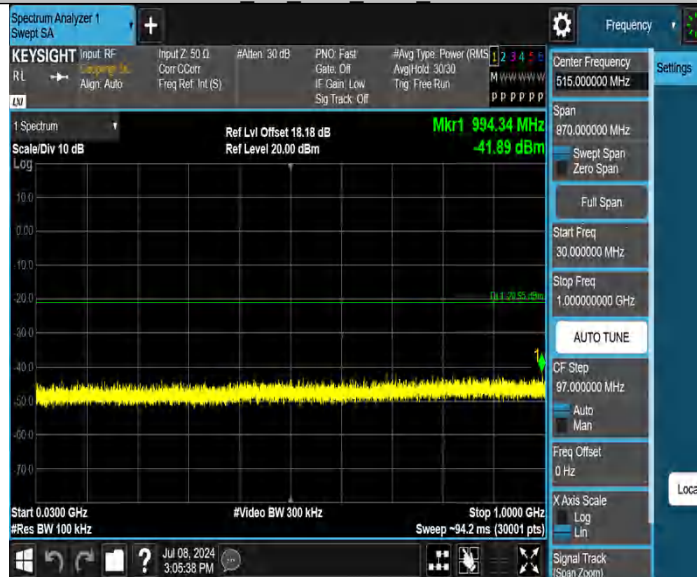
BLE_1M_Ant1_2480_1000~26500



BLE 2M Ant1 2402 0~Reference



BLE 2M Ant1 2402 30~1000



BLE 2M Ant1 2402 1000~26500



BLE 2M Ant1 2440 0~Reference



BLE 2M Ant1 2440 30~1000



BLE 2M Ant1 2440 1000~26500



BLE 2M Ant1 2480 0~Reference



BLE 2M Ant1 2480 30~1000



BLE 2M Ant1 2480 1000~26500



Appendix B.5: Test Results of Radiated Spurious Emissions

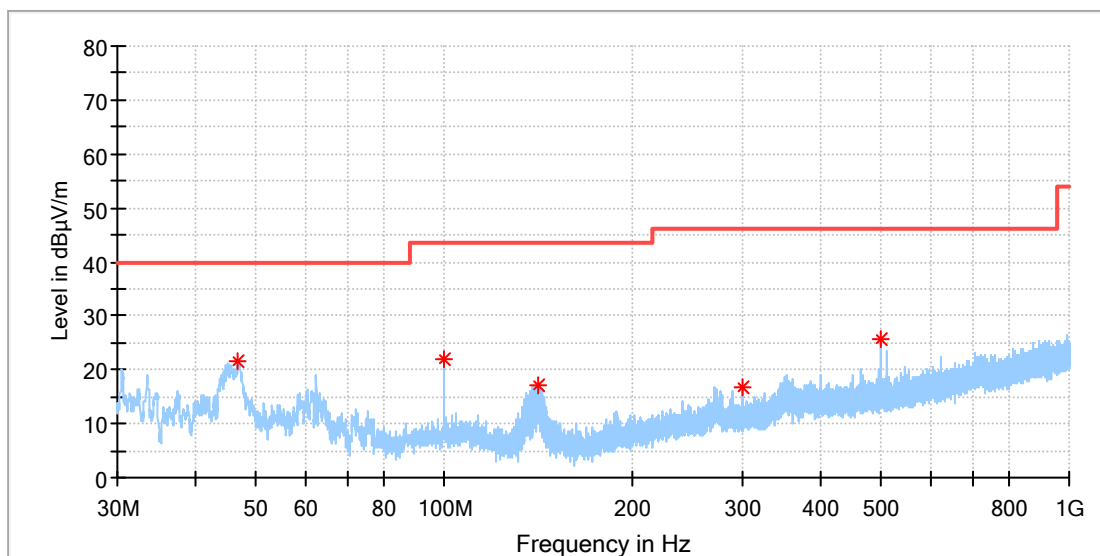
Note:

- 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.

30 MHz - 1GHz

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168484699/A003743309-003
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

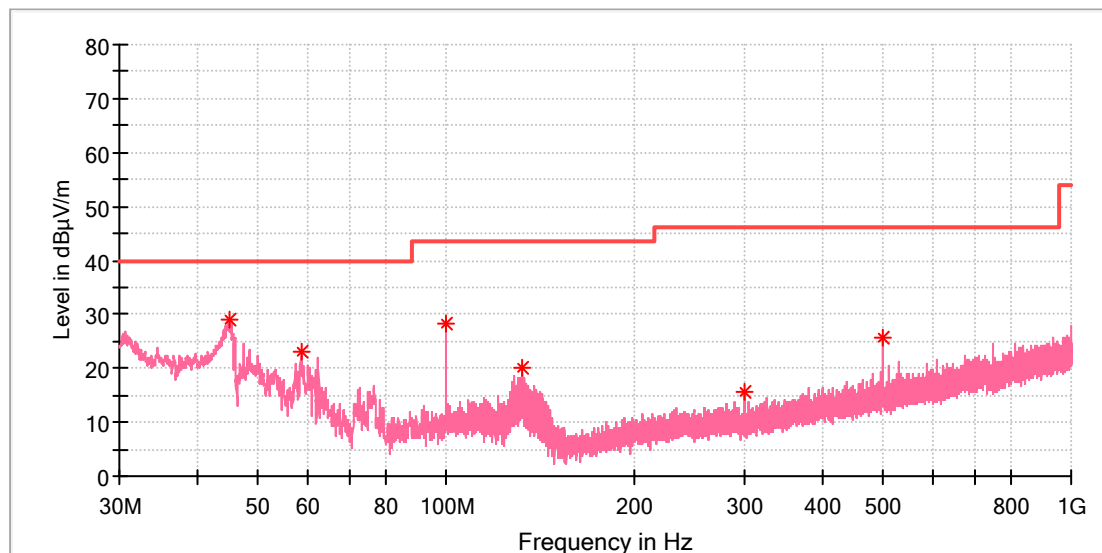
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
46.863077	21.69	40.00	18.31	100.0	H	50.0	-18.9
99.989231	22.14	43.50	21.36	100.0	H	4.0	-19.3
141.102308	17.18	43.50	26.32	100.0	H	149.0	-22.6
299.995769	16.86	46.00	29.14	100.0	H	88.0	-16.6
500.002308	25.74	46.00	20.26	100.0	H	133.0	-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:	BLE 1M_Mid channel
Order No/Sample No:	168484699/A003743309-003
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
44.885769	29.14	40.00	10.86	100.0	V	82.0	-19.2
58.615000	23.05	40.00	16.95	100.0	V	44.0	-19.1
99.989231	28.42	43.50	15.08	100.0	V	195.0	-19.3
132.521539	20.23	43.50	23.27	100.0	V	172.0	-22.3
299.995769	15.51	46.00	30.49	100.0	V	217.0	-16.6
500.002308	25.67	46.00	20.33	100.0	V	67.0	-12.2

Final Result

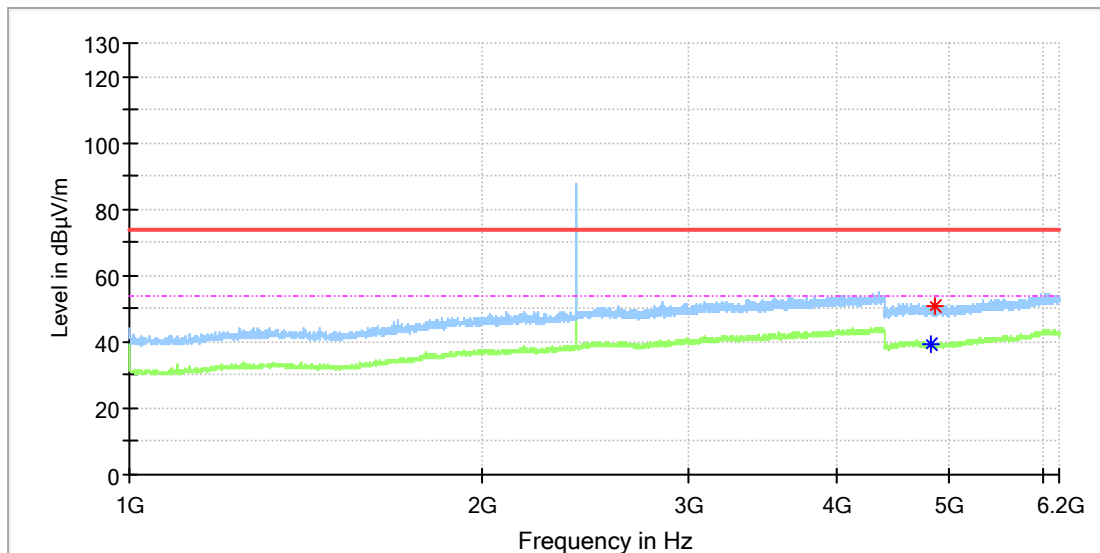
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

1GHz - 18GHz

Note: The highest waveform in the figure is Bluetooth Fundamental.

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168484699/A003743309-003
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

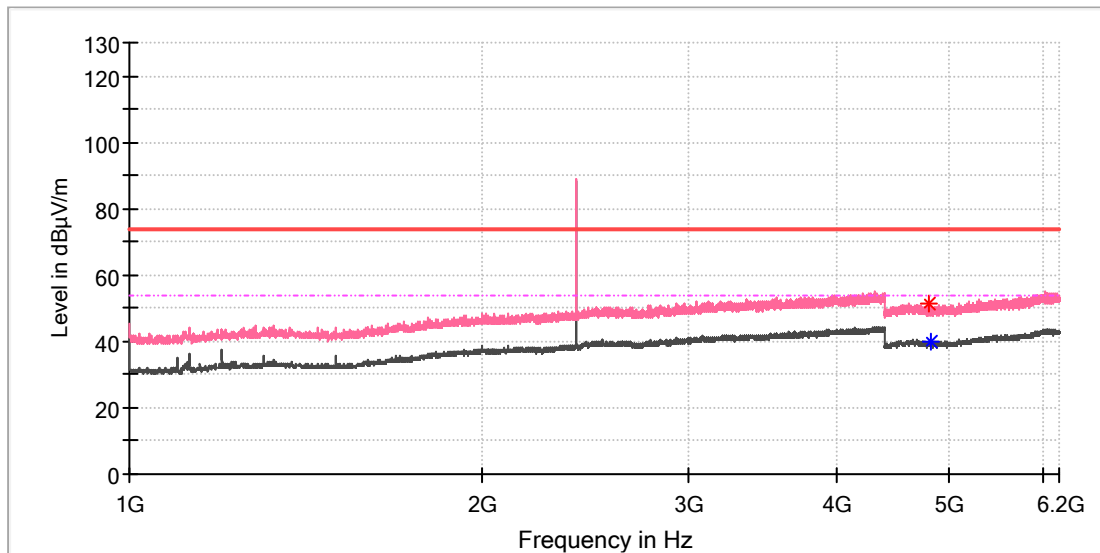
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4816.000000	---	39.42	54.00	14.58	150.0	H	312.0	11.8
4850.500000	50.83	---	74.00	23.17	150.0	H	342.0	11.8

Final_Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168484699/A003743309-003
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

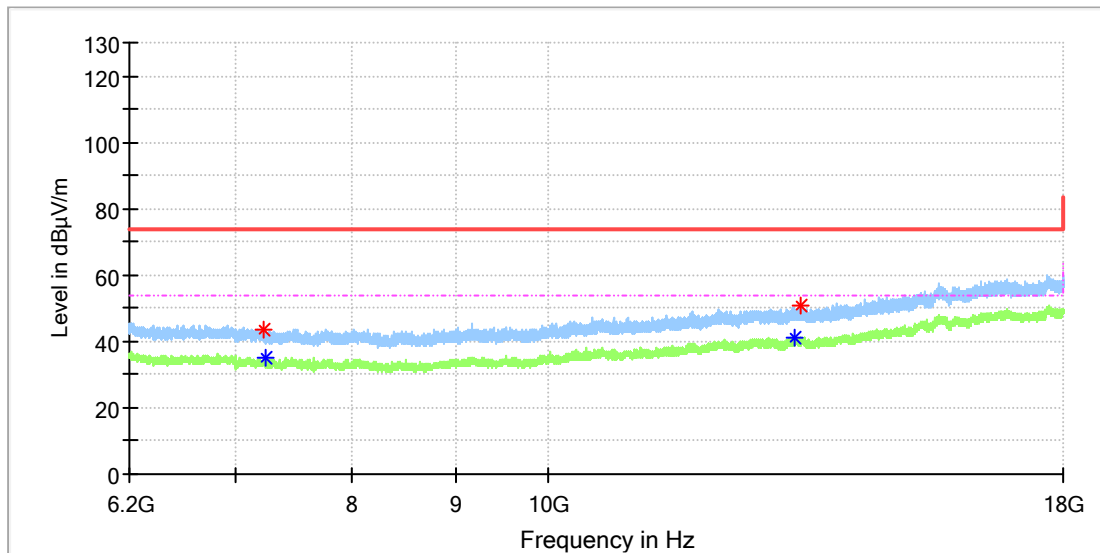
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4803.500000	51.26	---	74.00	22.74	150.0	V	107.0	11.8
4819.000000	---	39.78	54.00	14.22	150.0	V	322.0	11.8

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168484699/A003743309-003
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

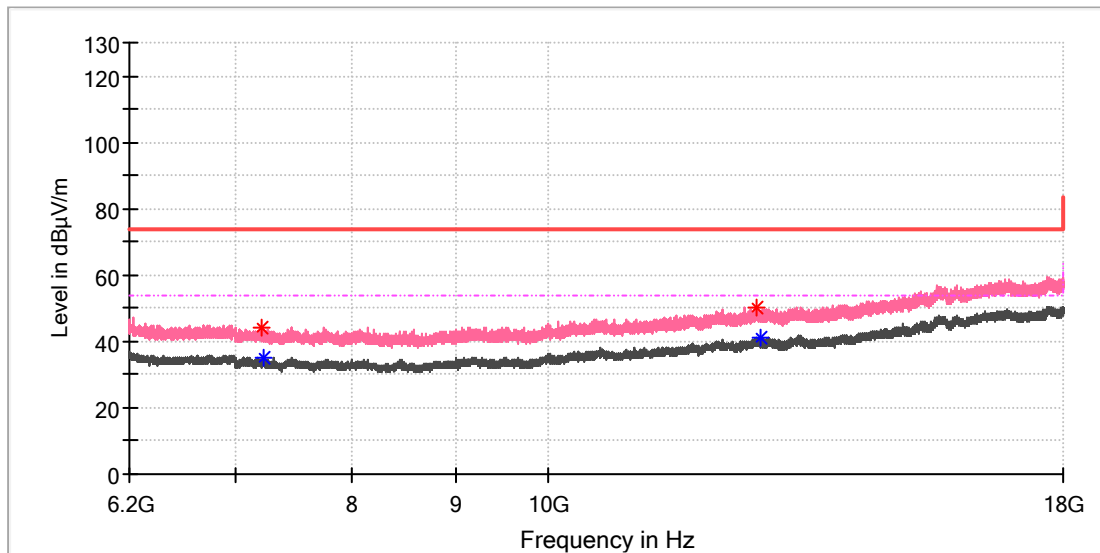
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7232.991667	43.37	---	74.00	30.63	150.0	H	91.0	8.6
7246.266667	---	35.14	54.00	18.86	150.0	H	150.0	8.6
13258.366667	---	41.06	54.00	12.94	150.0	H	31.0	15.5
13334.083333	50.69	---	74.00	23.31	150.0	H	0.0	15.5

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:	BLE 1M_Low channel
Order No/Sample No:	168484699/A003743309-003
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

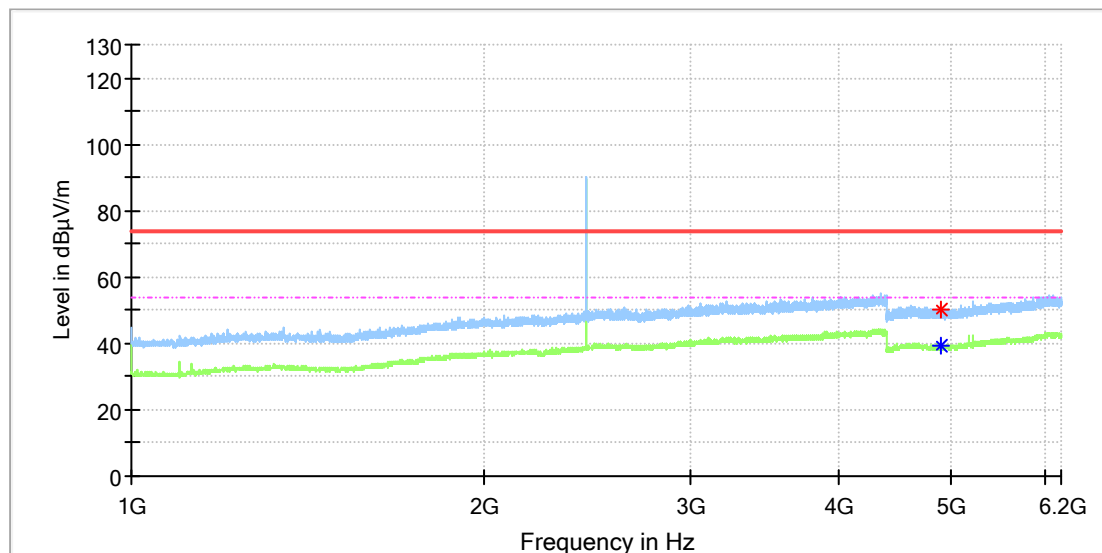
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7205.950000	43.89	---	74.00	30.11	150.0	V	166.0	8.8
7221.683333	---	34.96	54.00	19.04	150.0	V	247.0	8.7
12679.183333	49.97	---	74.00	24.03	150.0	V	194.0	15.1
12737.691667	---	40.98	54.00	13.02	150.0	V	346.0	15.2

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168484699/A003743309-003
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

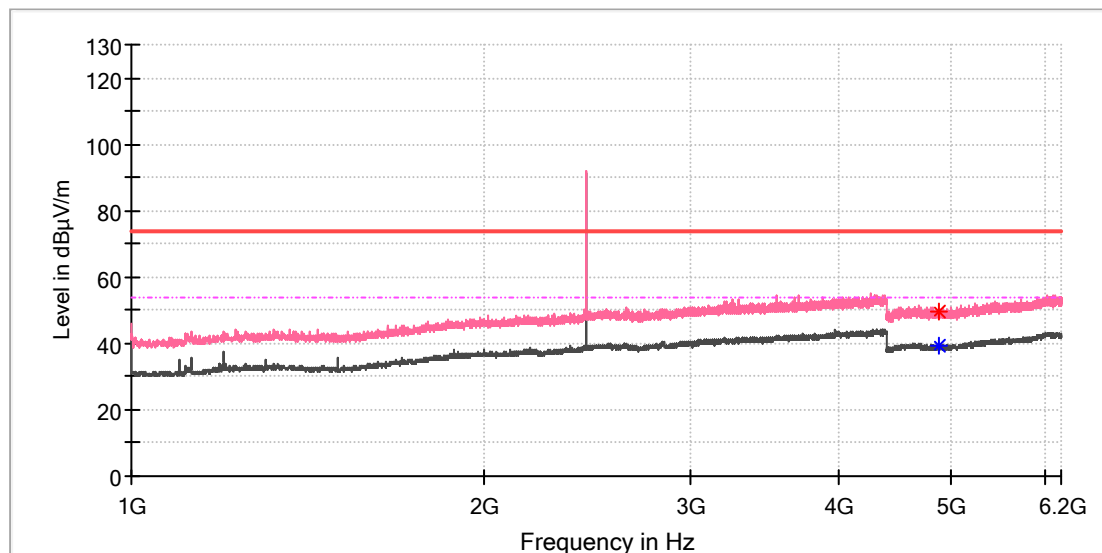
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4892.500000	50.10	---	74.00	23.90	150.0	H	228.0	11.8
4897.000000	---	39.49	54.00	14.51	150.0	H	335.0	11.8

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168484699/A003743309-003
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

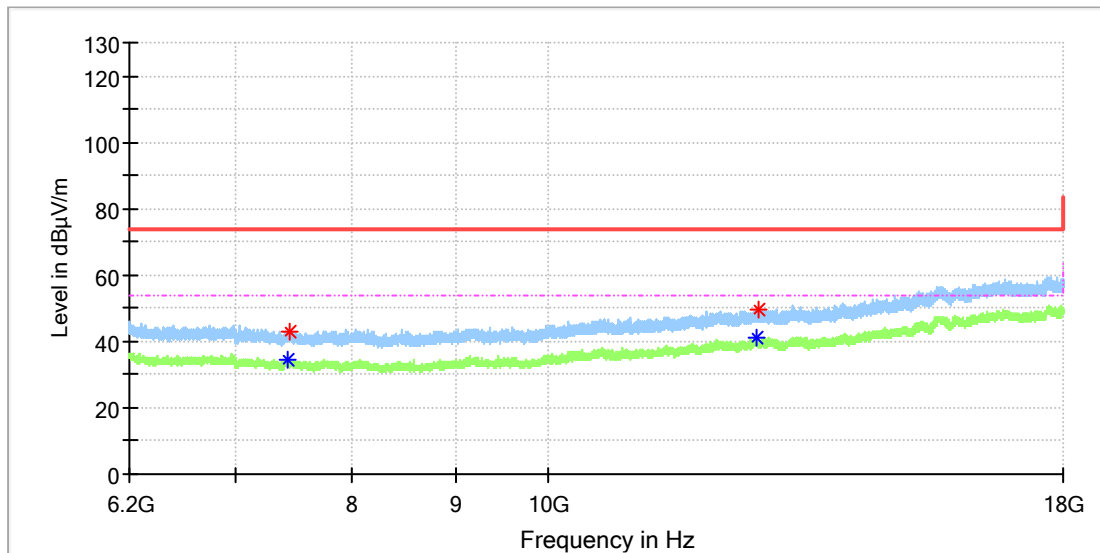
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4869.500000	---	39.51	54.00	14.49	150.0	V	189.0	11.8
4884.500000	49.76	---	74.00	24.24	150.0	V	195.0	11.8

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168484699/A003743309-003
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

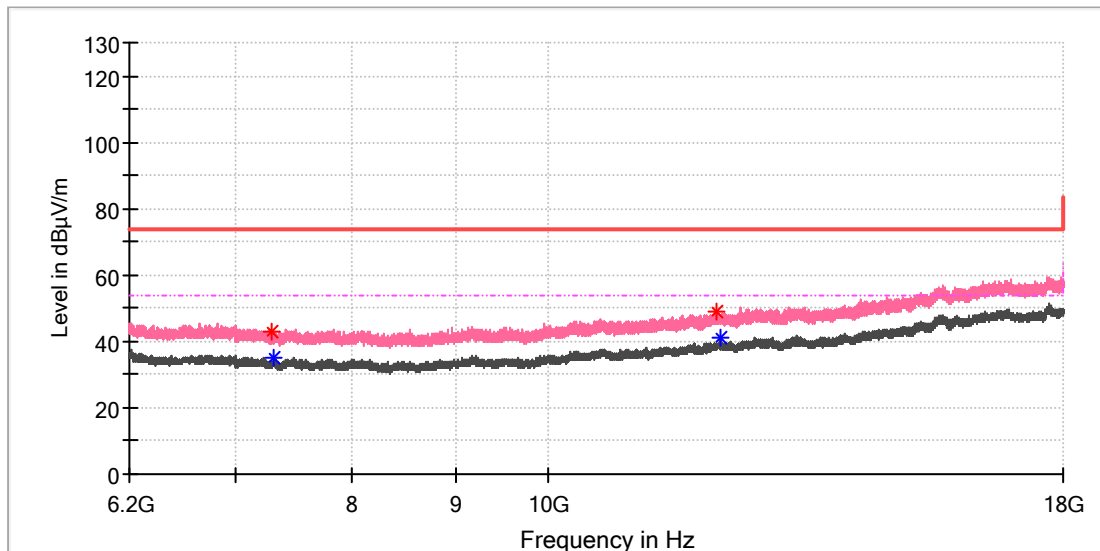
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7426.216667	---	34.48	54.00	19.52	150.0	H	305.0	8.4
7445.883333	43.23	---	74.00	30.77	150.0	H	257.0	8.5
12689.508333	---	41.24	54.00	12.76	150.0	H	171.0	15.1
12710.650000	49.81	---	74.00	24.19	150.0	H	159.0	15.1

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:	BLE 1M_Mid channel
Order No/Sample No:	168484699/A003743309-003
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

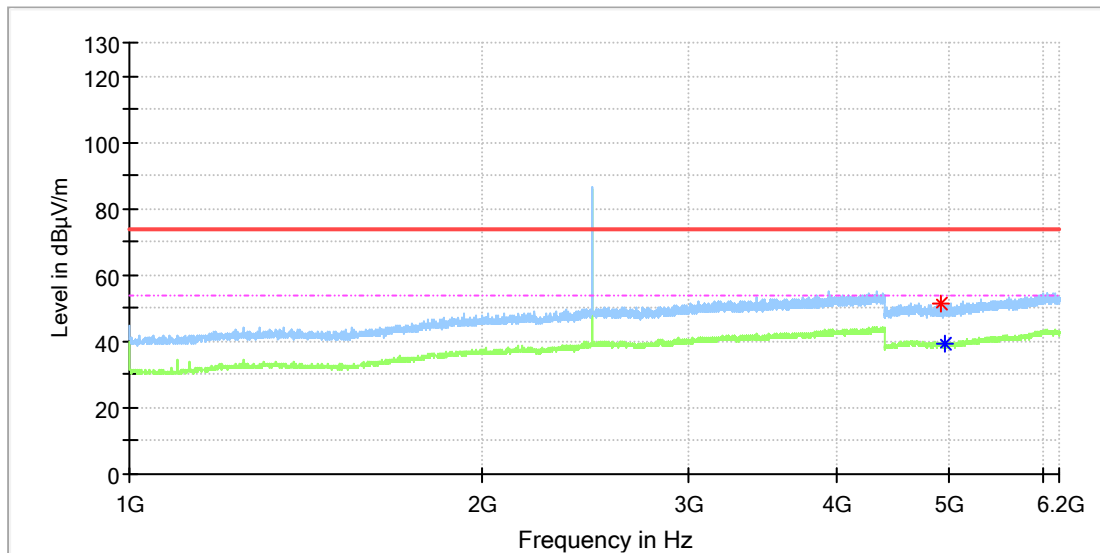
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7298.875000	43.20	---	74.00	30.80	150.0	V	154.0	8.3
7317.066667	---	34.79	54.00	19.21	150.0	V	341.0	8.2
12105.900000	49.22	---	74.00	24.78	150.0	V	154.0	14.2
12164.408333	---	41.01	54.00	12.99	150.0	V	34.0	14.5

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:	BLE 1M_High channel
Order No/Sample No:	168484699/A003743309-003
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

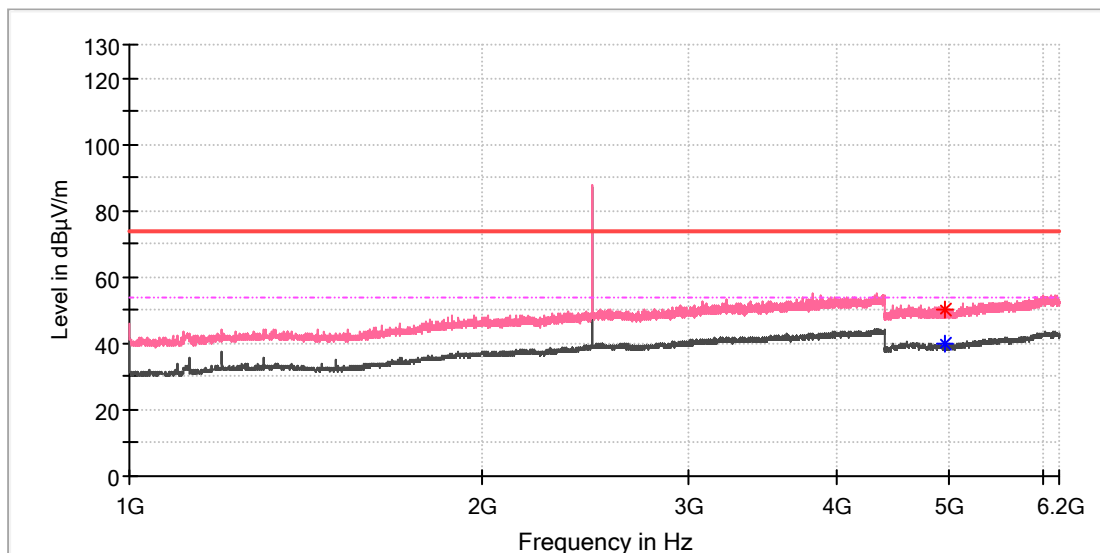
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4924.000000	51.21	---	74.00	22.79	150.0	H	186.0	11.8
4948.000000	---	39.27	54.00	14.73	150.0	H	98.0	11.8

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168484699/A003743309-003
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

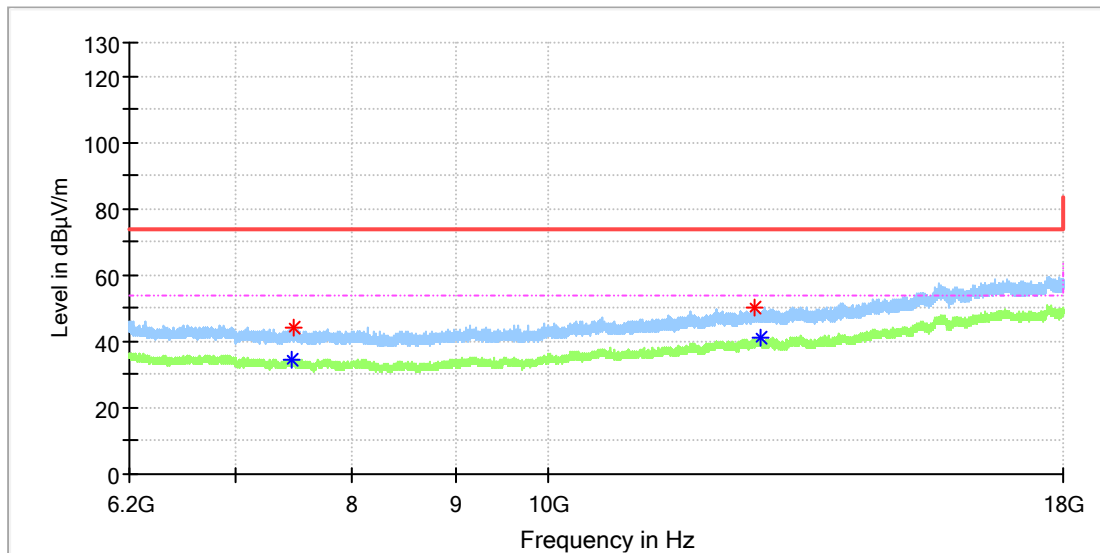
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4949.500000	50.34	---	74.00	23.66	150.0	V	123.0	11.8
4950.000000	---	39.76	54.00	14.24	150.0	V	359.0	11.8

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168484699/A003743309-003
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

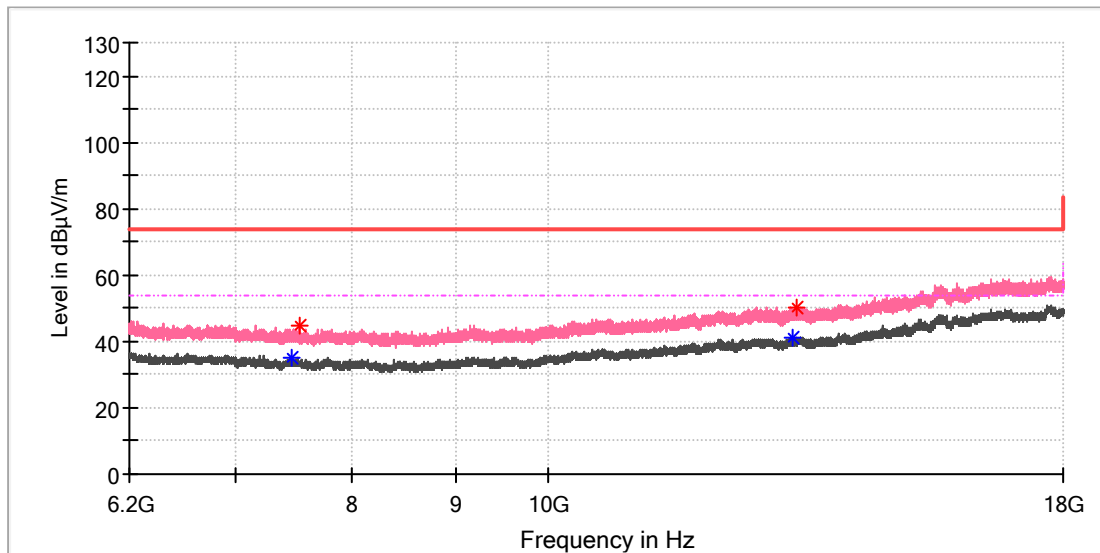
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7460.633333	---	34.58	54.00	19.42	150.0	H	94.0	8.5
7483.250000	44.00	---	74.00	30.00	150.0	H	0.0	8.7
12652.141667	49.97	---	74.00	24.03	150.0	H	272.0	15.0
12740.641667	---	41.17	54.00	12.83	150.0	H	71.0	15.2

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168484699/A003743309-003
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7468.008333	---	35.16	54.00	18.84	150.0	V	204.0	8.6
7522.091667	44.48	---	74.00	29.52	150.0	V	93.0	8.7
13232.308333	---	41.35	54.00	12.65	150.0	V	350.0	15.5
13264.758333	50.42	---	74.00	23.58	150.0	V	315.0	15.5

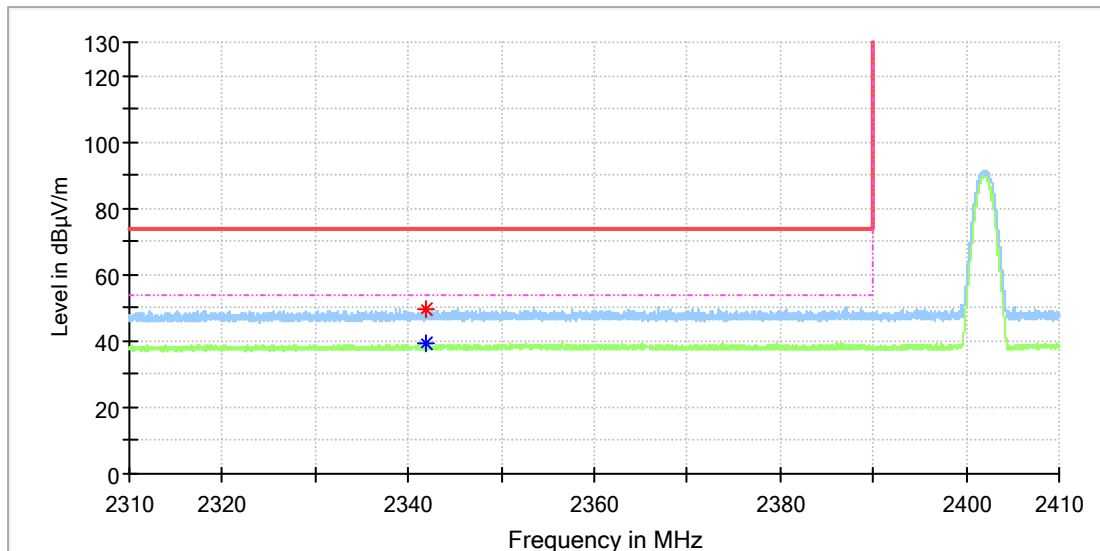
Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168484699/A003743309-003
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

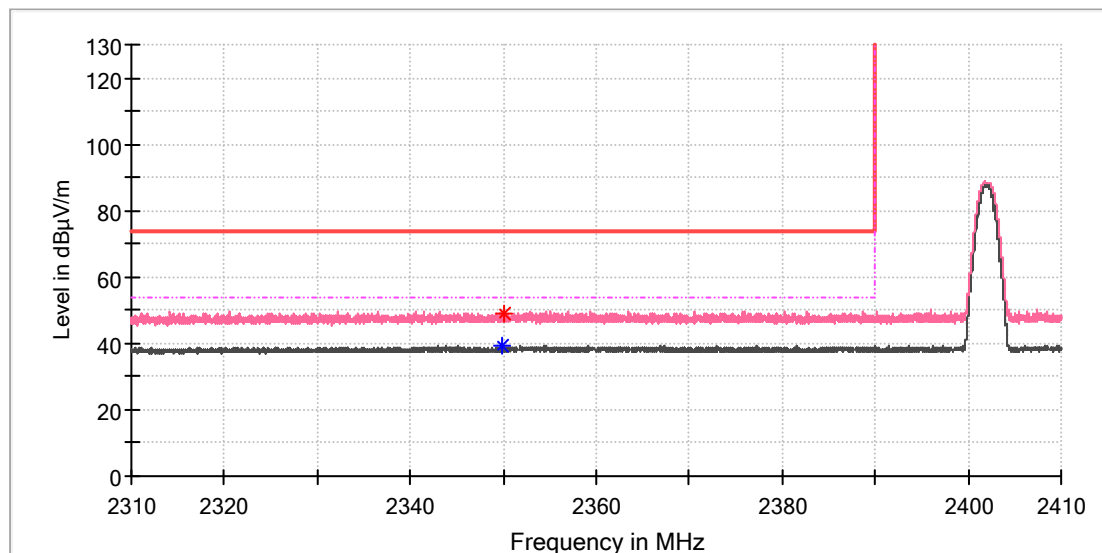
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2341.794118	49.71	---	74.00	24.29	150.0	H	282.0	6.8
2341.838235	---	39.42	54.00	14.58	150.0	H	149.0	6.8

Final_Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168484699/A003743309-003
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

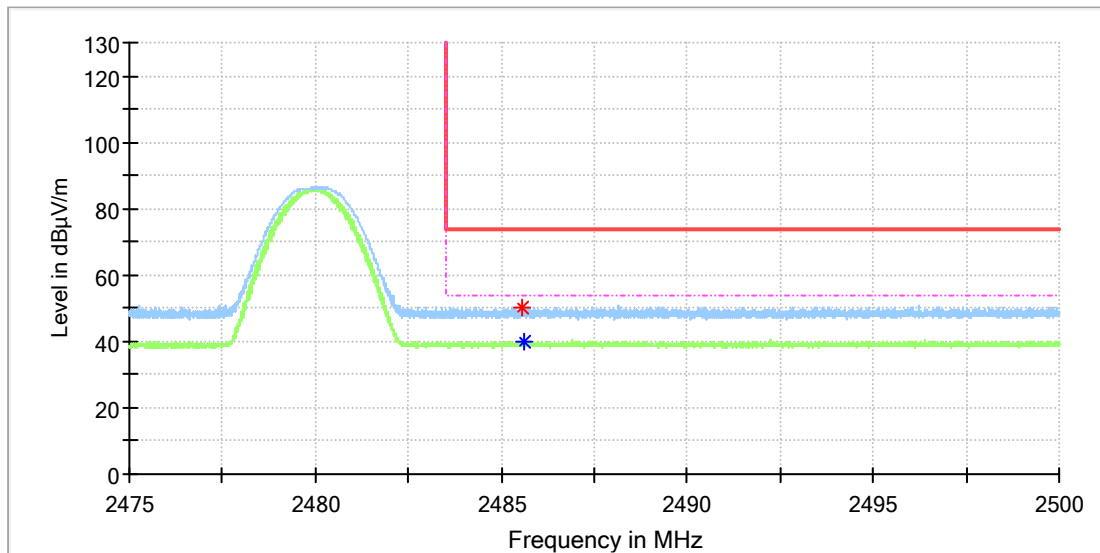
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2349.897059	---	39.37	54.00	14.63	150.0	V	66.0	6.9
2350.132353	48.96	---	74.00	25.04	150.0	V	45.0	6.9

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168484699/A003743309-003
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

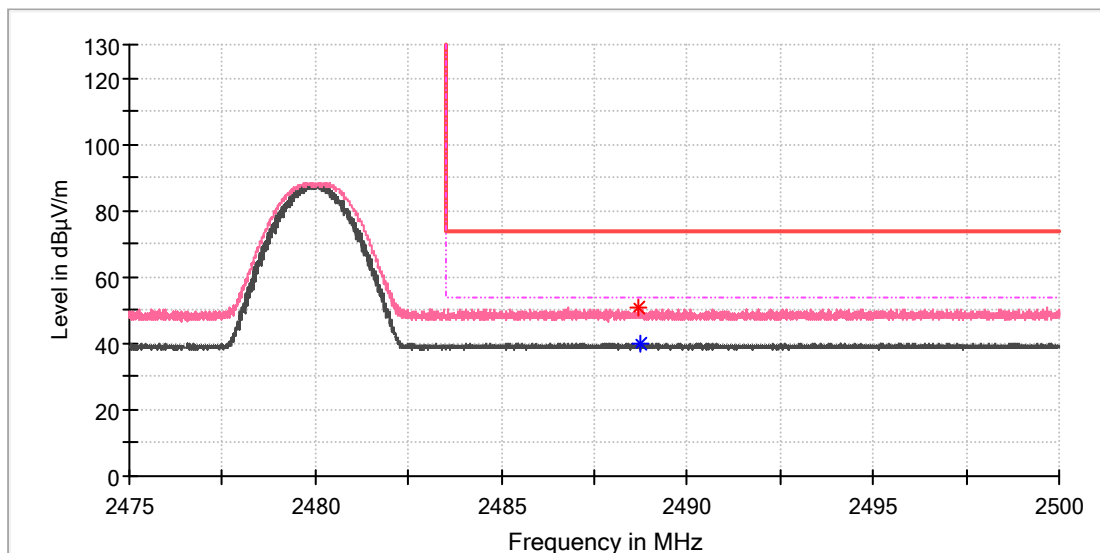
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2485.573530	50.41	---	74.00	23.59	150.0	H	138.0	7.4
2485.602941	---	39.68	54.00	14.32	150.0	H	33.0	7.4

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:	BLE 1M_High channel
Order No/Sample No:	168484699/A003743309-003
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

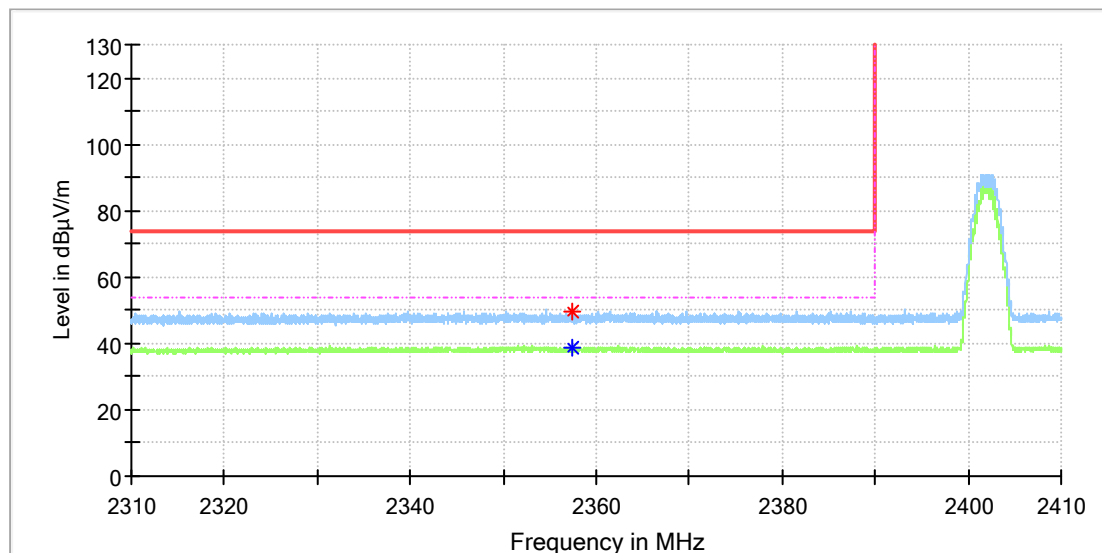
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2488.702206	50.93	---	74.00	23.07	150.0	V	243.0	7.4
2488.746324	---	39.65	54.00	14.35	150.0	V	0.0	7.4

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:	BLE 2M_Low channel
Order No/Sample No:	168484699/A003743309-003
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

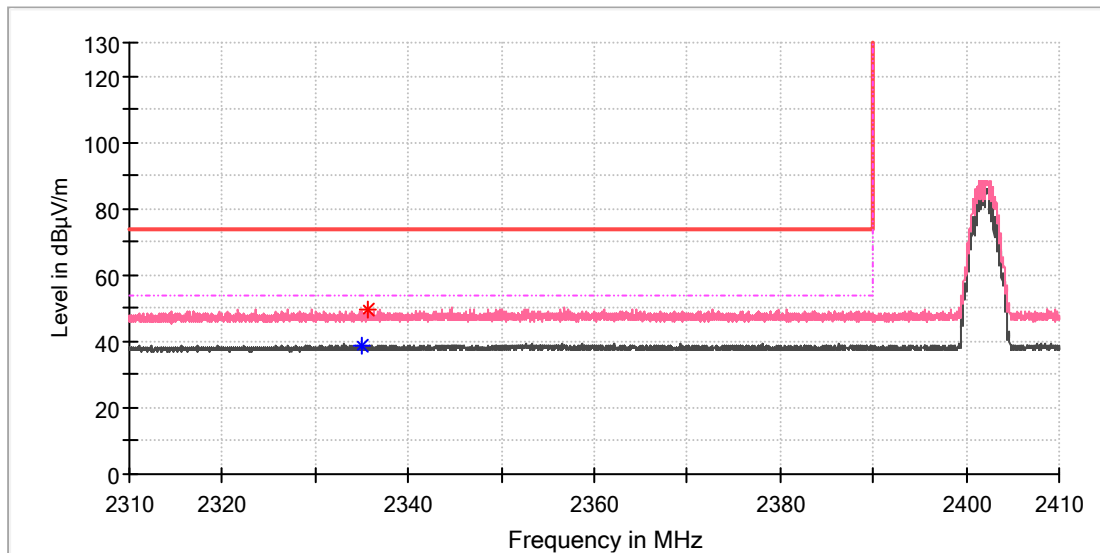
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2357.397059	---	38.47	54.00	15.53	150.0	H	53.0	6.9
2357.426471	49.58	---	74.00	24.42	150.0	H	271.0	6.9

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	BLE 2M_Low channel
Order No/Sample No:	168484699/A003743309-003
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

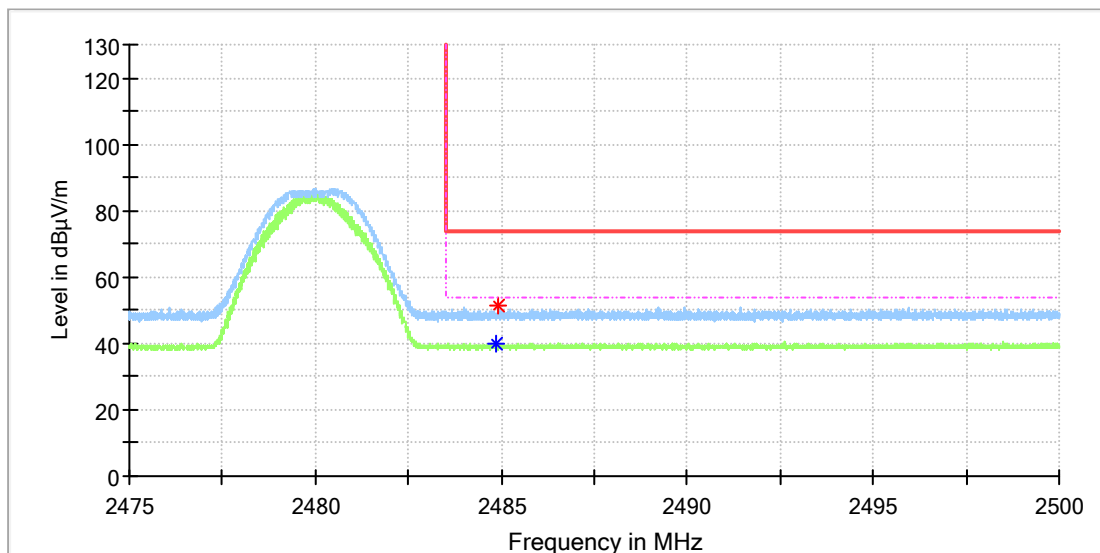
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2334.941177	---	38.66	54.00	15.34	150.0	V	355.0	6.8
2335.705882	49.88	---	74.00	24.12	150.0	V	146.0	6.8

Final Result

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

EUT Information

EUT Name:	Controller
Model:	RC520
Test Mode:	BLE 2M_High channel
Order No/Sample No:	168484699/A003743309-003
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

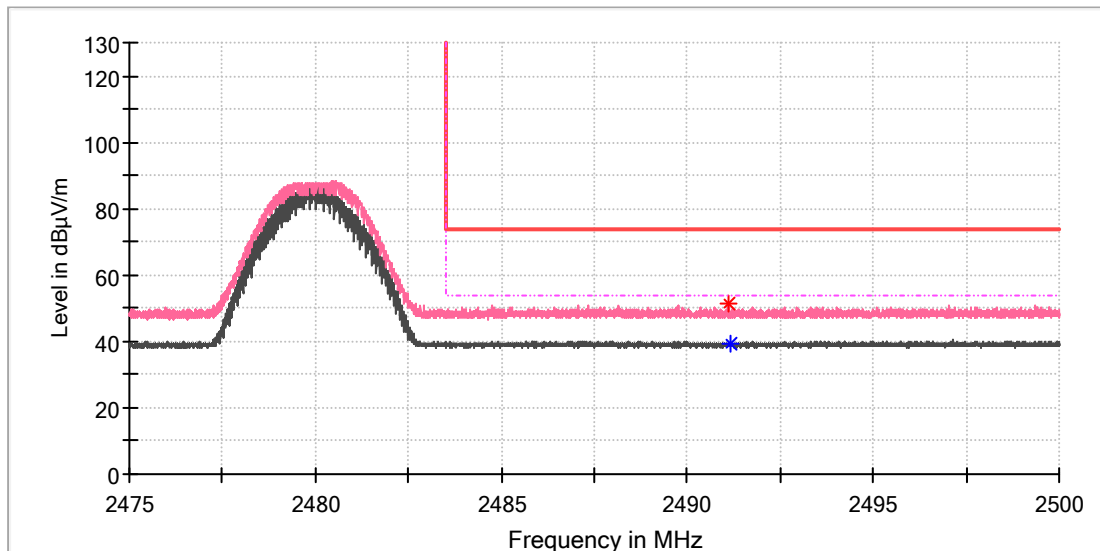
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.886030	---	39.83	54.00	14.17	150.0	H	126.0	7.4
2484.900735	51.11	---	74.00	22.89	150.0	H	151.0	7.4

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:	BLE 2M_High channel
Order No/Sample No:	168484699/A003743309-003
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2491.113971	51.14	---	74.00	22.86	150.0	V	68.0	7.4
2491.143382	---	39.56	54.00	14.44	150.0	V	25.0	7.4

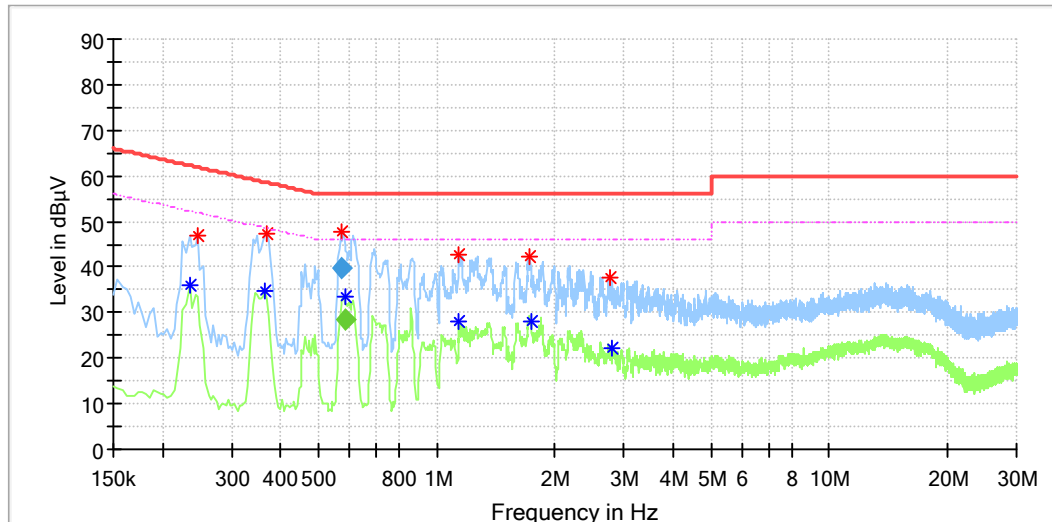
Final Result

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

Appendix B.7: Test Results of Conducted Emission on AC Mains

EUT Information

EUT Name:	Controller
Order Number:	168484699
Model:	RC520
Test Mode:	BT 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

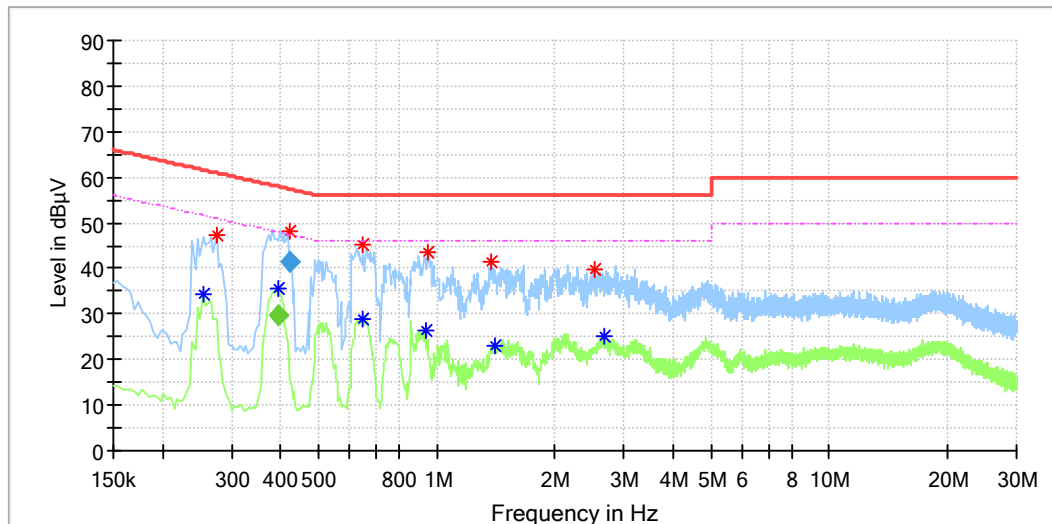
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.234000	---	36.19	52.31	16.11	L1	9.9
0.246000	46.90	---	61.89	14.99	L1	9.9
0.366000	---	34.87	48.59	13.72	L1	9.9
0.370000	47.44	---	58.50	11.06	L1	9.9
0.573500	47.72	---	56.00	8.28	L1	10.0
0.582500	---	33.29	46.00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