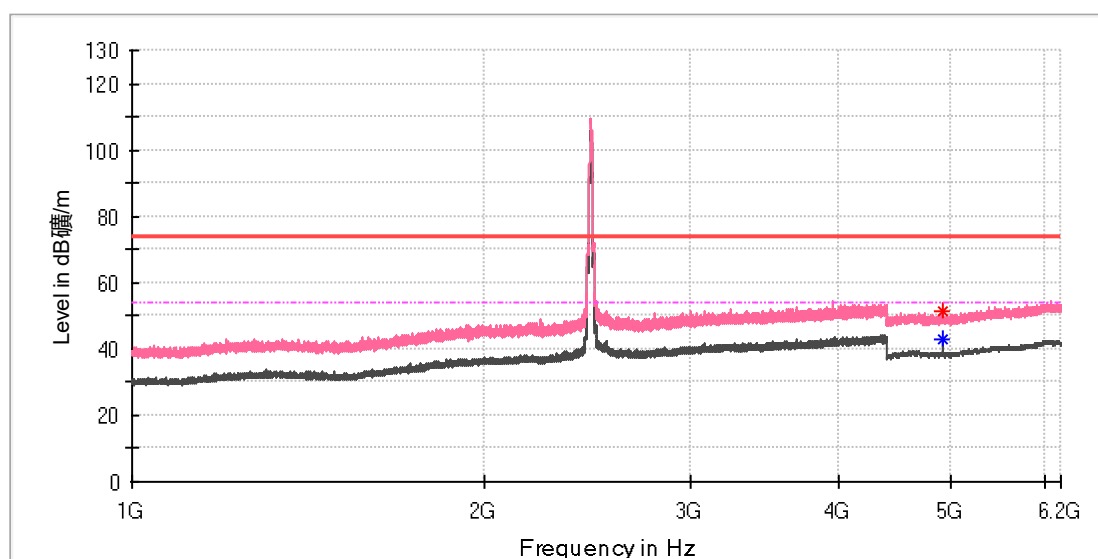


EUT Information

EUT Name:	Control Extender
Model:	EL-IO-200
Test Mode:	Wi-Fi 2.4G 11b_High Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:49%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

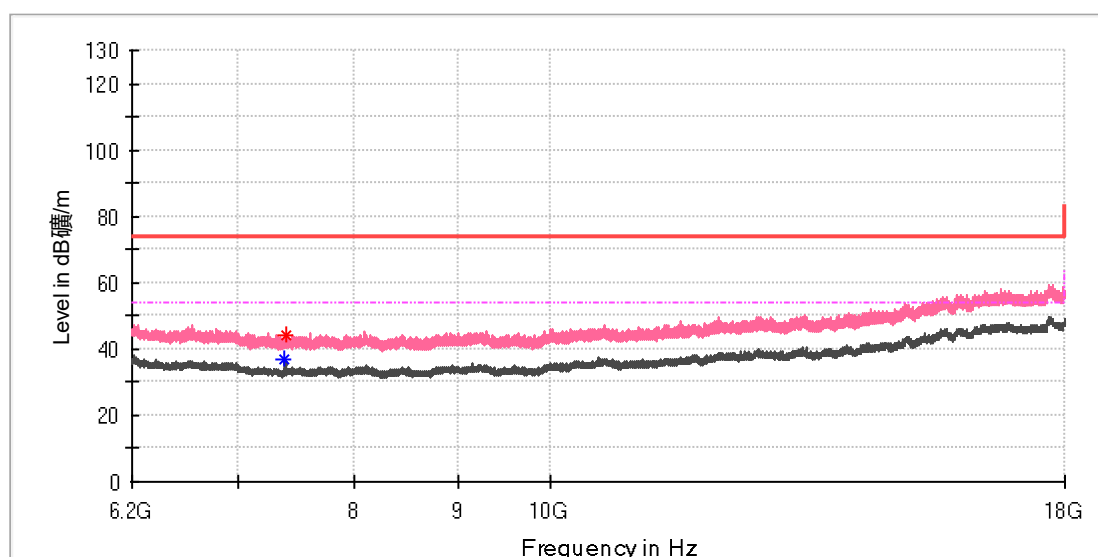
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4924.000000	51.39	---	74.00	22.61	100.0	V	286.0	11.8
4924.000000	---	43.11	54.00	10.89	100.0	V	286.0	11.8

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.0	100.0	100.0	100.0	0.0	0.0		0.0	0.0

EUT Information

EUT Name:	Control Extender
Model:	EL-IO-200
Test Mode:	Wi-Fi 2.4G 11b_High Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:48%
Test Standard:	FCC 15.247
Tested By:	Alano Qu
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)
7384.425000	---	36.76	54.00	17.24	100.0	V	323.0	8.2
7387.375000	43.99	---	74.00	30.01	100.0	V	70.0	8.2

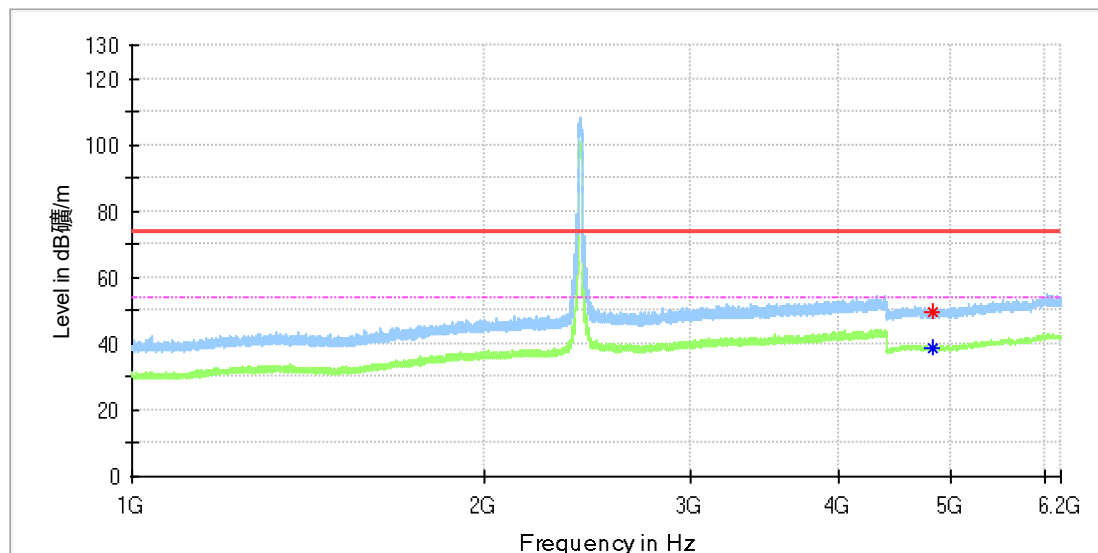
Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.5	100.0	100.0	100.0	0.0	100.0		0.0	

Wi-Fi 802.11 g mode, 6 Mbps

EUT Information

EUT Name:	Control Extender
Model:	EL-IO-200
Test Mode:	Wi-Fi 2.4G 11g_Low Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:48%
Test Standard:	FCC 15.247
Tested By:	Alano Qu
Reviewed By:	Terry Yin



Critical_Freqs

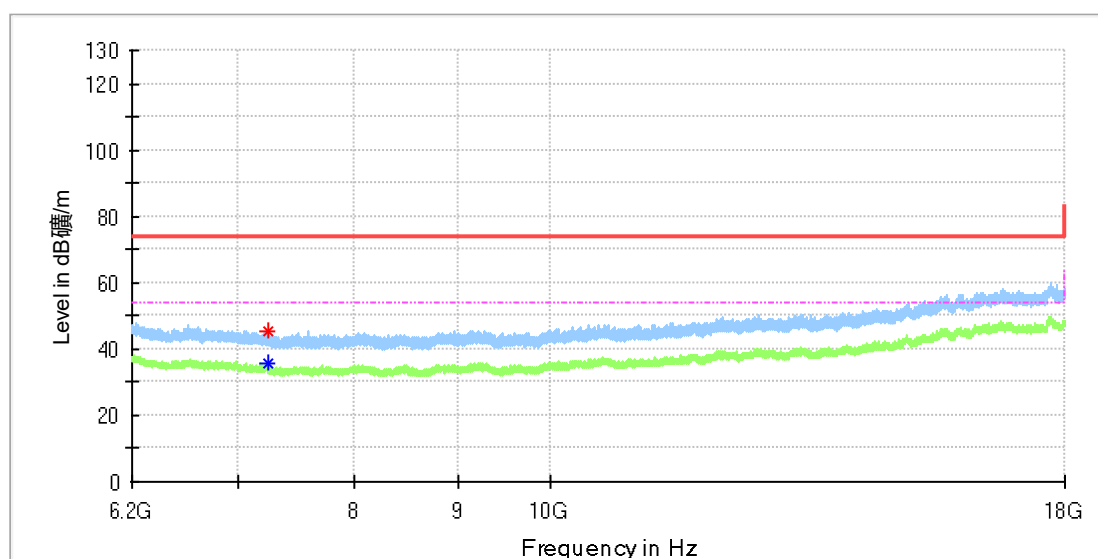
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4822.000000	---	38.97	54.00	15.03	100.0	H	242.0	11.8
4823.000000	49.65	---	74.00	24.35	100.0	H	307.0	11.8

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.5	118.0	120.0	120.0	0.0	3.0	V	180	0.0

EUT Information

EUT Name:	Control Extender
Model:	EL-IO-200
Test Mode:	Wi-Fi 2.4G 11g_Low Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Alano Qu
Reviewed By:	Terry Yin



Critical_Freqs

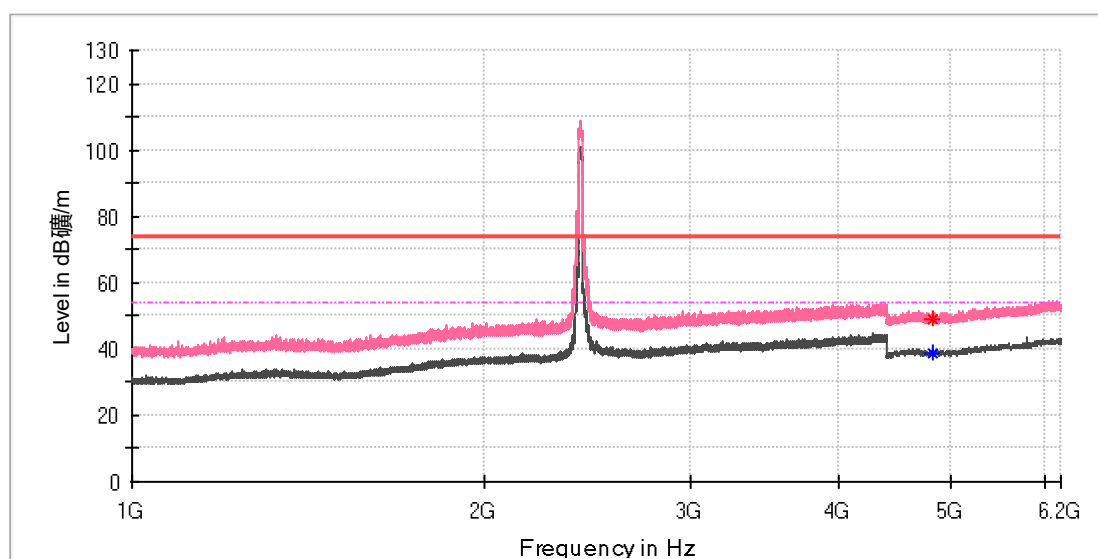
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7236.433333	---	35.90	54.00	18.10	100.0	H	292.0	8.6
7241.350000	45.49	---	74.00	28.51	100.0	H	250.0	8.6

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.5	118.5	120.5	120.5	0.0	1.0	h	135	0.0

EUT Information

EUT Name:	Control Extender
Model:	EL-IO-200
Test Mode:	Wi-Fi 2.4G 11g_Low Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:48%
Test Standard:	FCC 15.247
Tested By:	Alano Qu
Reviewed By:	Terry Yin



Critical_Freqs

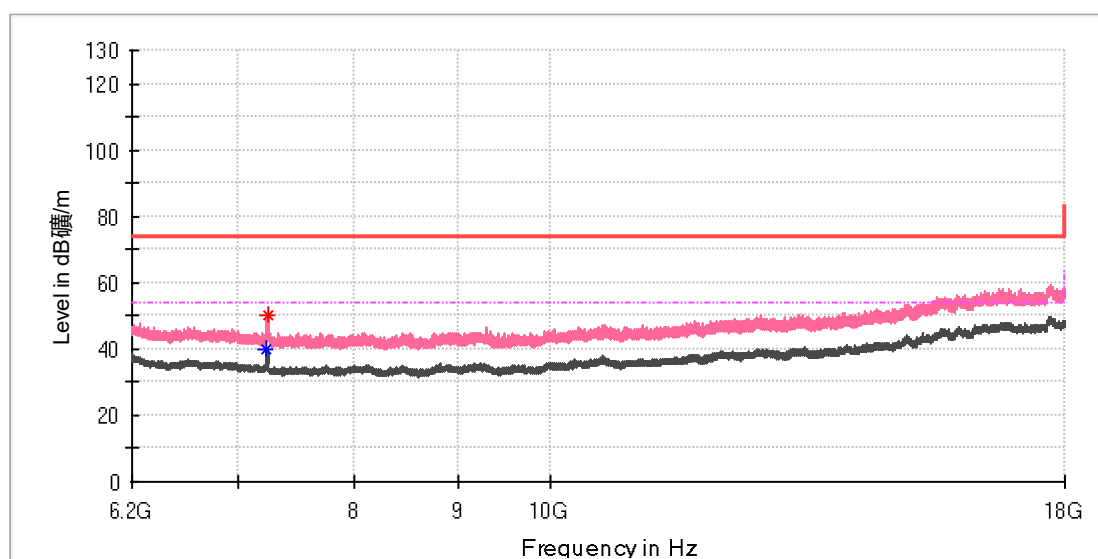
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4824.000000	49.22	---	74.00	24.78	100.0	V	254.0	11.8
4824.500000	---	38.73	54.00	15.27	100.0	V	356.0	11.8

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.0	100.0	100.0	100.0	0.0	0.0		0.0	0.0

EUT Information

EUT Name:	Control Extender
Model:	EL-IO-200
Test Mode:	Wi-Fi 2.4G 11g_Low Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Alano Qu
Reviewed By:	Terry Yin



Critical_Freqs

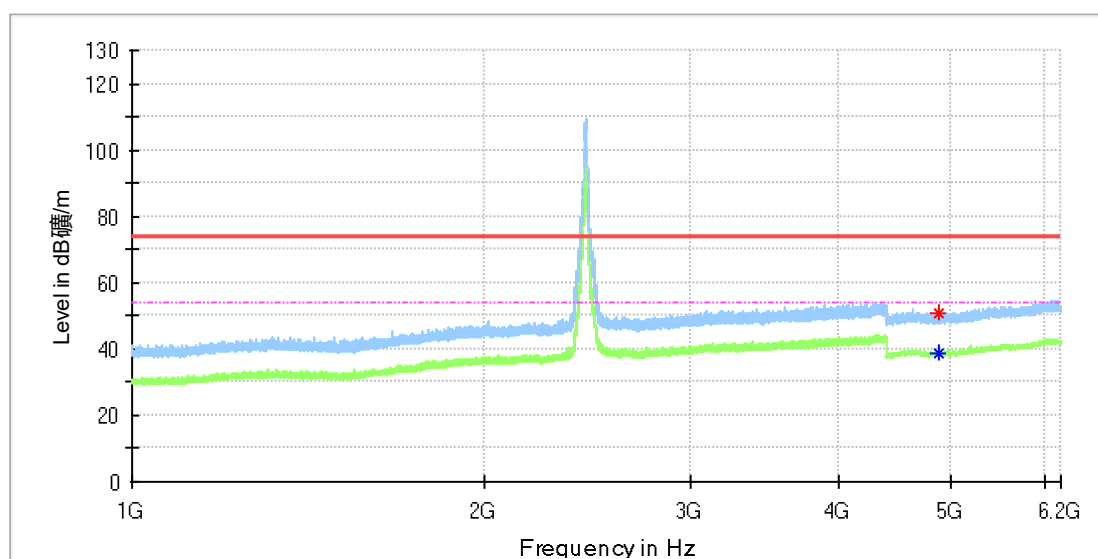
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7233.975000	---	40.08	54.00	13.92	100.0	V	151.0	8.6
7237.908333	50.03	---	74.00	23.97	100.0	V	193.0	8.6

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.0	100.0	100.0	100.0	0.0	0.0		0.0	0.0

EUT Information

EUT Name:	Control Extender
Model:	EL-IO-200
Test Mode:	Wi-Fi 2.4G 11g_Mid Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:49%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

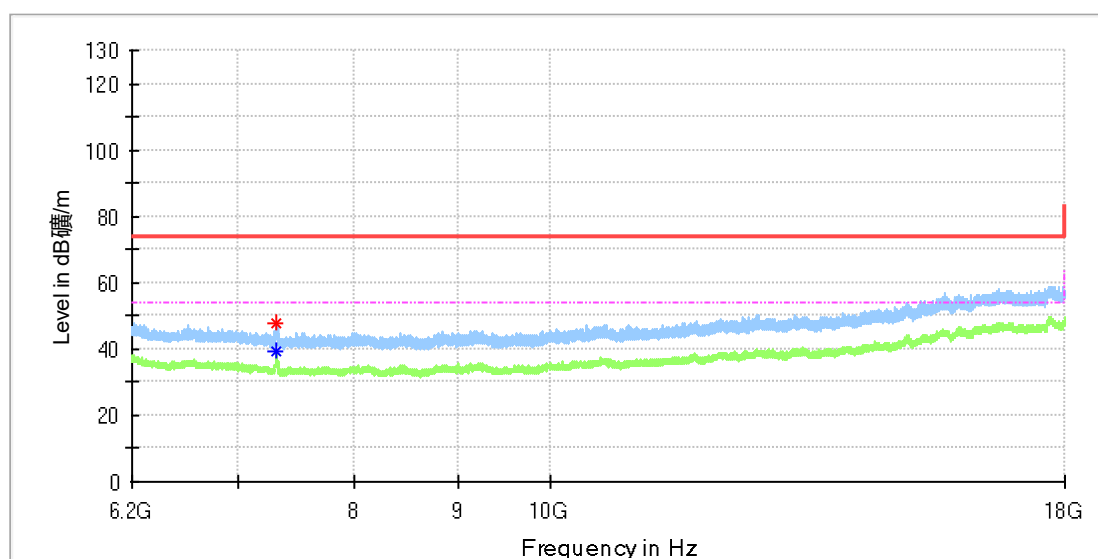
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4875.000000	---	38.89	54.00	15.11	100.0	H	282.0	11.8
4876.000000	50.52	---	74.00	23.48	100.0	H	246.0	11.8

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.0	100.0	100.0	100.0	0.0	0.0		0.0	0.0

EUT Information

EUT Name:	Control Extender
Model:	EL-IO-200
Test Mode:	Wi-Fi 2.4G 11g_Mid Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Alano Qu
Reviewed By:	Terry Yin



Critical_Freqs

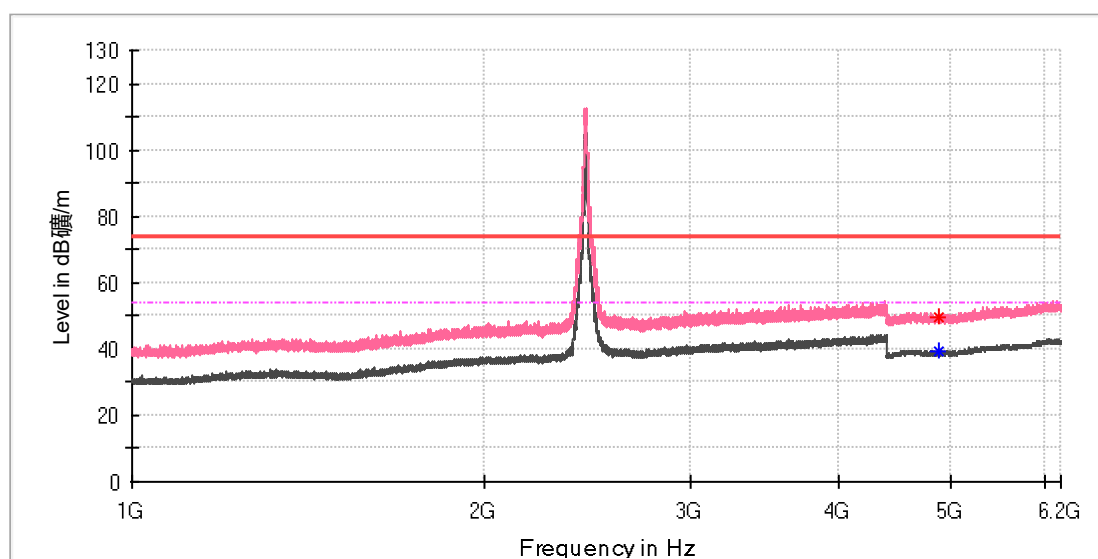
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7312.150000	47.77	---	74.00	26.23	100.0	H	250.0	8.2
7312.150000	---	39.29	54.00	14.71	100.0	H	250.0	8.2

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.5	118.0	120.0	115.0	3.0	1.5	V	135	0.0

EUT Information

EUT Name:	Control Extender
Model:	EL-IO-200
Test Mode:	Wi-Fi 2.4G 11g_Mid Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:49%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

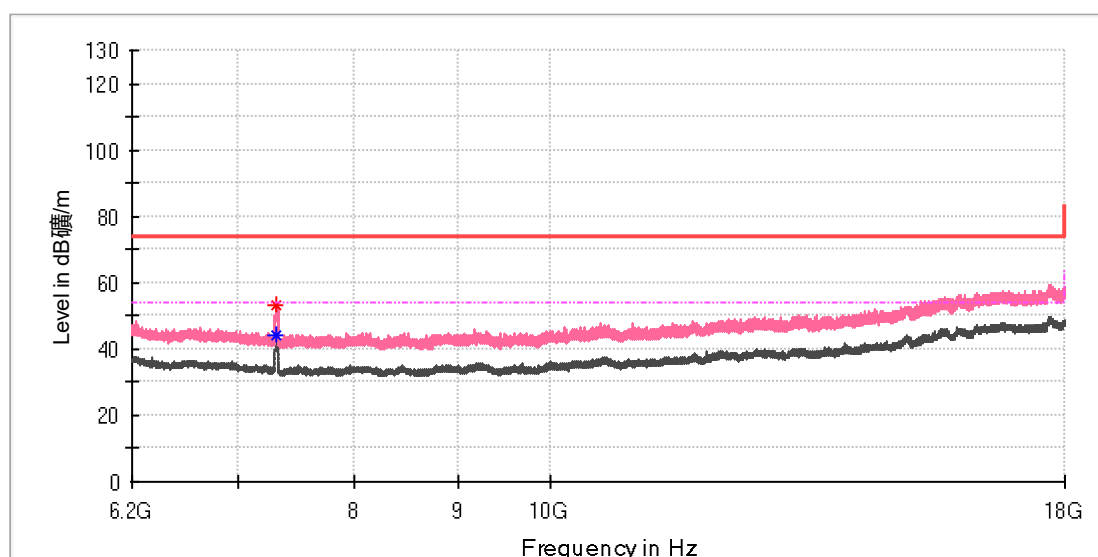
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4874.500000	49.64	---	74.00	24.36	100.0	V	239.0	11.8
4875.000000	---	39.35	54.00	14.65	100.0	V	247.0	11.8

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	118.0	120.0	115.0	3.0	0.5	V	135	0.0

EUT Information

EUT Name:	Control Extender
Model:	EL-IO-200
Test Mode:	Wi-Fi 2.4G 11g_Mid Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Alano Qu
Reviewed By:	Terry Yin



Critical_Freqs

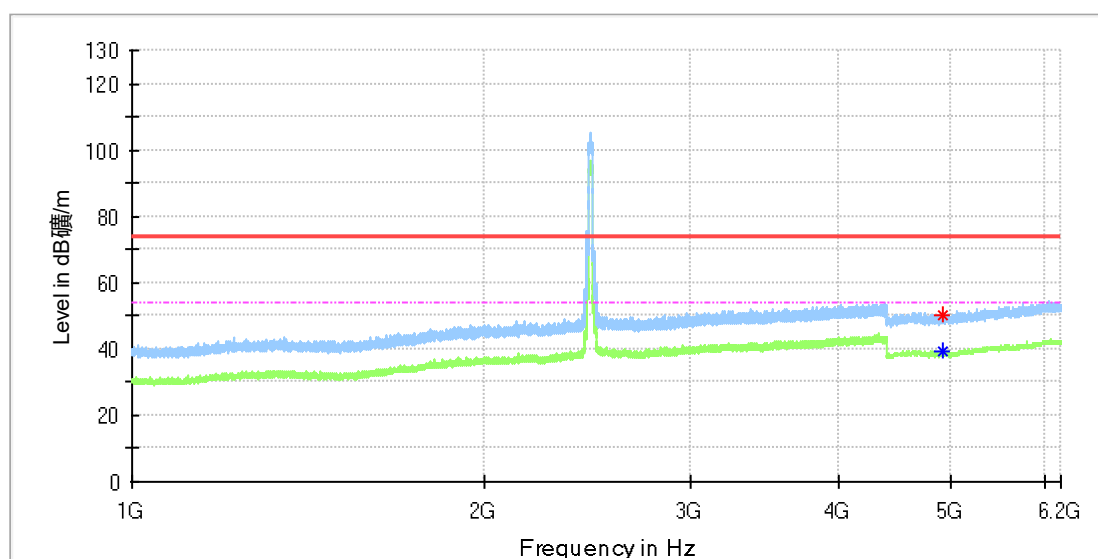
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7309.200000	---	43.98	54.00	10.02	100.0	V	265.0	8.2
7310.675000	53.01	---	74.00	20.99	100.0	V	265.0	8.2

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.5	118.0	120.0	120.0	0.0	30.0		0.0	

EUT Information

EUT Name:	Control Extender
Model:	EL-IO-200
Test Mode:	Wi-Fi 2.4G 11g_High Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:48%
Test Standard:	FCC 15.247
Tested By:	Alano Qu
Reviewed By:	Terry Yin



Critical_Freqs

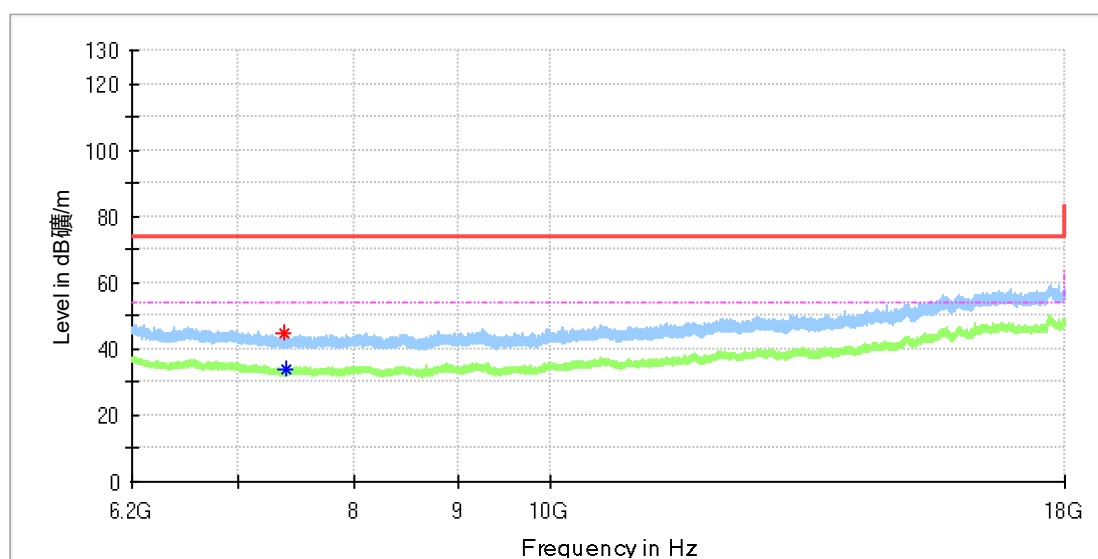
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4923.500000	50.19	---	74.00	23.81	100.0	H	261.0	11.8
4923.500000	---	39.02	54.00	14.98	100.0	H	261.0	11.8

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.5	118.0	120.0	115.0	3.0	1.0	V	135	0.0

EUT Information

EUT Name:	Control Extender
Model:	EL-IO-200
Test Mode:	Wi-Fi 2.4G 11g_High Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Alano Qu
Reviewed By:	Terry Yin



Critical_Freqs

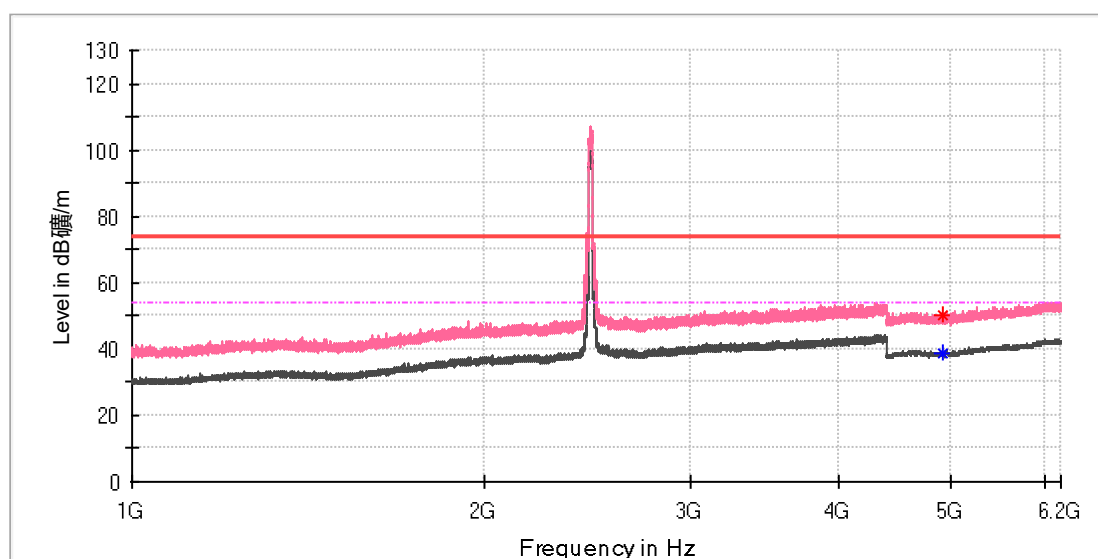
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7372.625000	44.45	---	74.00	29.55	100.0	H	330.0	8.2
7388.850000	---	33.96	54.00	20.04	100.0	H	249.0	8.2

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.5	118.5	120.5	120.0	0.5	0.5		0	0

EUT Information

EUT Name:	Control Extender
Model:	EL-IO-200
Test Mode:	Wi-Fi 2.4G 11g_High Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:48%
Test Standard:	FCC 15.247
Tested By:	Alano Qu
Reviewed By:	Terry Yin



Critical_Freqs

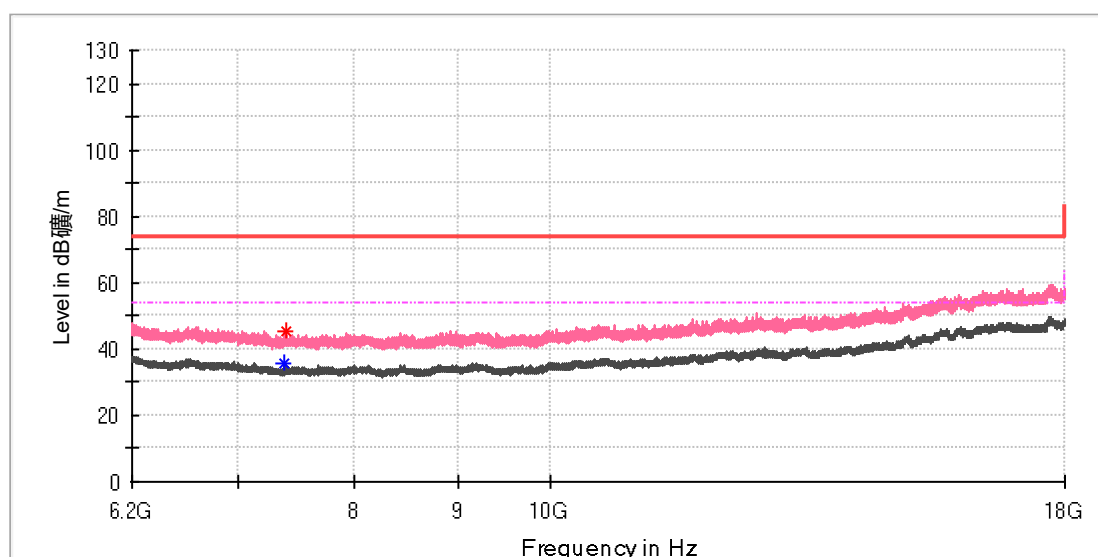
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4922.000000	50.46	---	74.00	23.54	100.0	V	237.0	11.8
4923.500000	---	38.91	54.00	15.09	100.0	V	330.0	11.8

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.0	100.0	100.0	100.0	0.0	0.0		0.0	0.0

EUT Information

EUT Name:	Control Extender
Model:	EL-IO-200
Test Mode:	Wi-Fi 2.4G 11g_High Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Alano Qu
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)
7381.966667	---	35.51	54.00	18.49	100.0	V	263.0	8.2
7386.391667	45.46	---	74.00	28.54	100.0	V	141.0	8.2

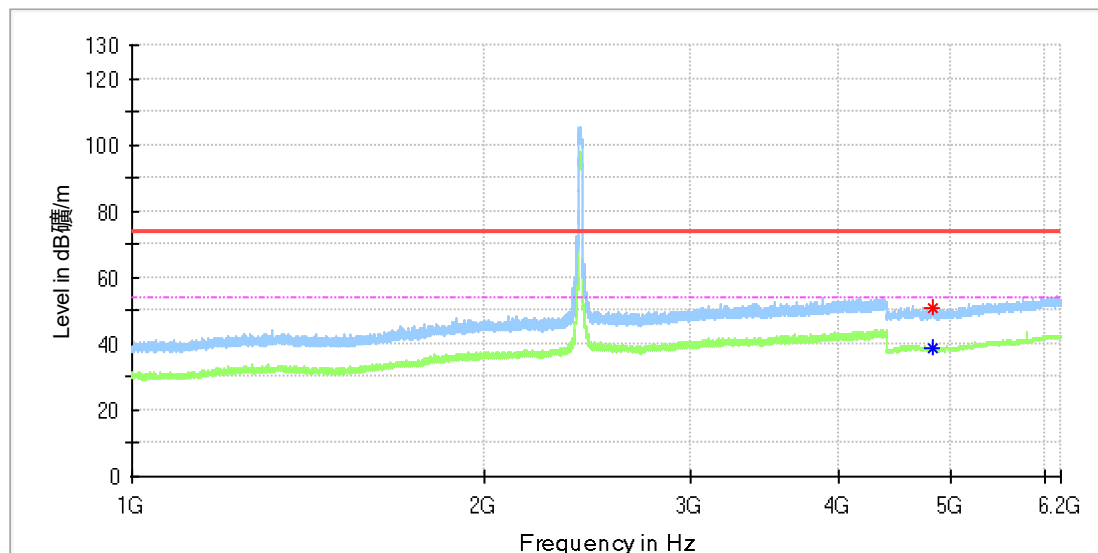
Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.5	118.0	120.0	120.0	0.0	30.0		0.0	

Wi-Fi 802.11 n(HT20) mode, MCS0

EUT Information

EUT Name:	Control Extender
Model:	EL-IO-200
Test Mode:	Wi-Fi 2.4G 11n20_Low Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:48%
Test Standard:	FCC 15.247
Tested By:	Alano Qu
Reviewed By:	Terry Yin



Critical_Freqs

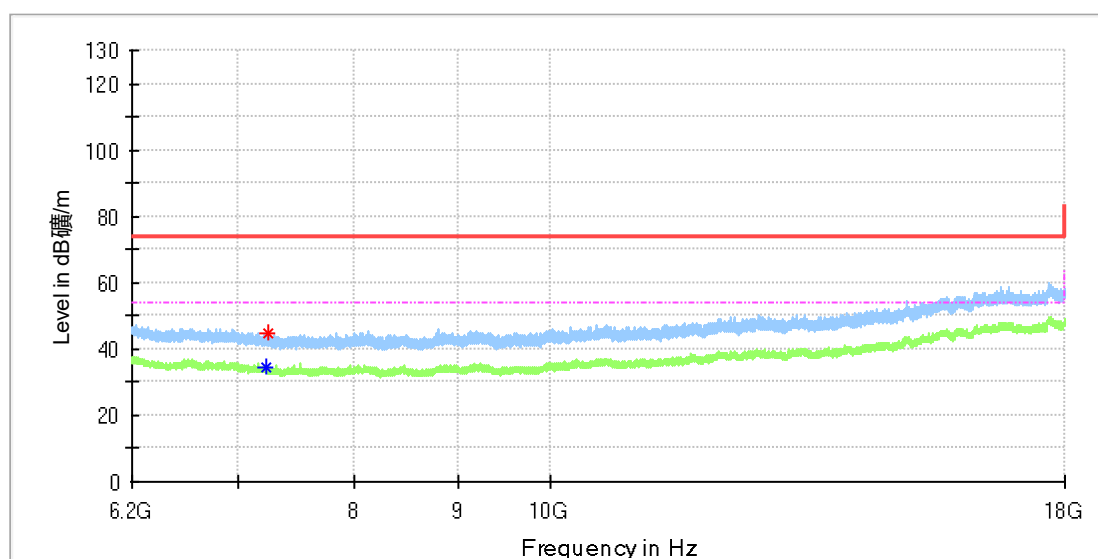
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4824.500000	---	38.41	54.00	15.59	100.0	H	176.0	11.8
4827.000000	50.71	---	74.00	23.29	100.0	H	306.0	11.8

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.5	118.0	120.0	120.0	0.0	1.0	V	0	0.0

EUT Information

EUT Name:	Control Extender
Model:	EL-IO-200
Test Mode:	Wi-Fi 2.4G 11n20_Low Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Alano Qu
Reviewed By:	Terry Yin



Critical_Freqs

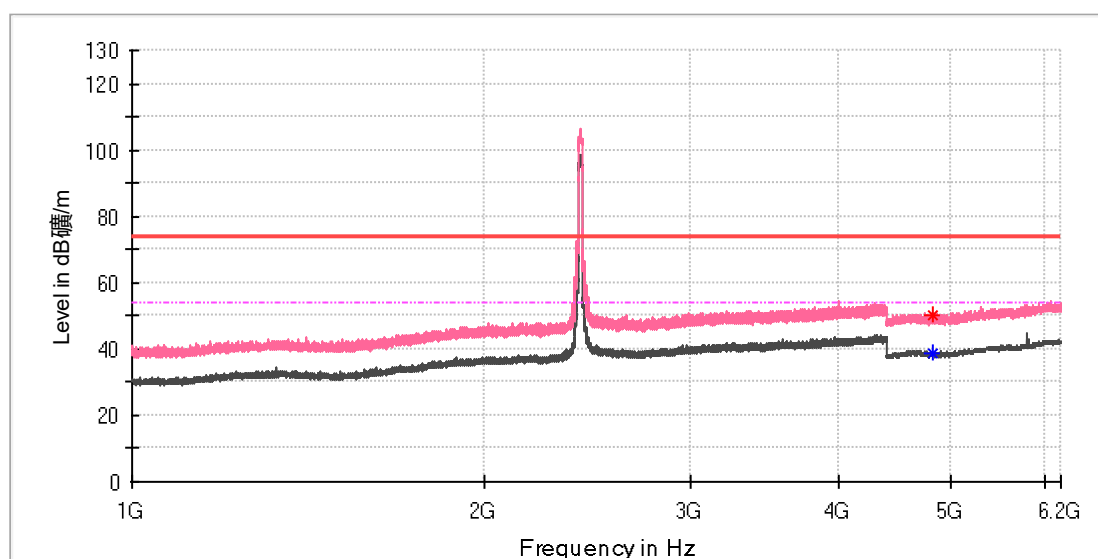
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7233.975000	---	34.69	54.00	19.31	100.0	H	153.0	8.6
7236.433333	44.76	---	74.00	29.24	100.0	H	139.0	8.6

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.0	100.0	100.0	100.0	0.0	0.0		0.0	0.0

EUT Information

EUT Name:	Control Extender
Model:	EL-IO-200
Test Mode:	Wi-Fi 2.4G 11n20_Low Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:48%
Test Standard:	FCC 15.247
Tested By:	Alano Qu
Reviewed By:	Terry Yin



Critical_Freqs

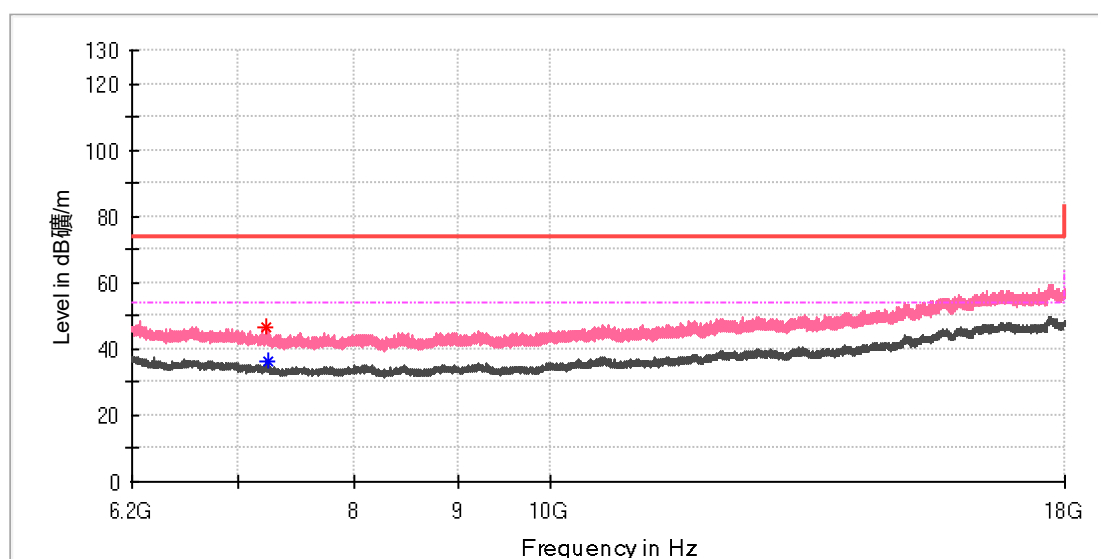
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4821.500000	50.07	---	74.00	23.93	100.0	V	93.0	11.8
4823.500000	---	38.55	54.00	15.45	100.0	V	242.0	11.8

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.0	100.0	100.0	100.0	0.0	0.0		0.0	0.0

EUT Information

EUT Name:	Control Extender
Model:	EL-IO-200
Test Mode:	Wi-Fi 2.4G 11n20_Low Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Alano Qu
Reviewed By:	Terry Yin



Critical_Freqs

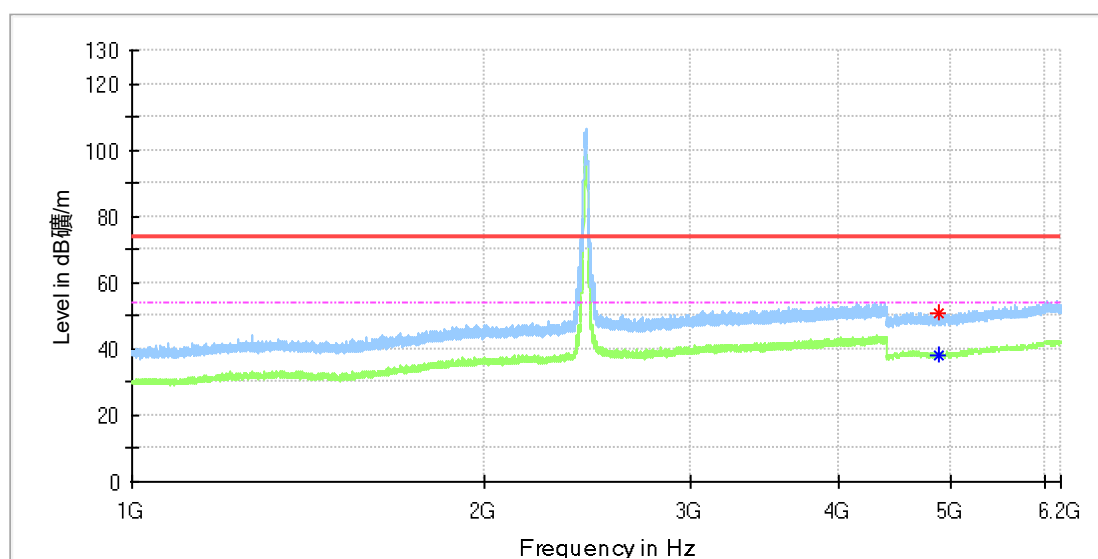
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7228.566667	46.73	---	74.00	27.27	100.0	V	165.0	8.6
7236.433333	---	36.38	54.00	17.62	100.0	V	249.0	8.6

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.0	100.0	100.0	100.0	0.0	0.0		0.0	0.0

EUT Information

EUT Name:	Control Extender
Model:	EL-IO-200
Test Mode:	Wi-Fi 2.4G 11n20_Mid Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:49%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

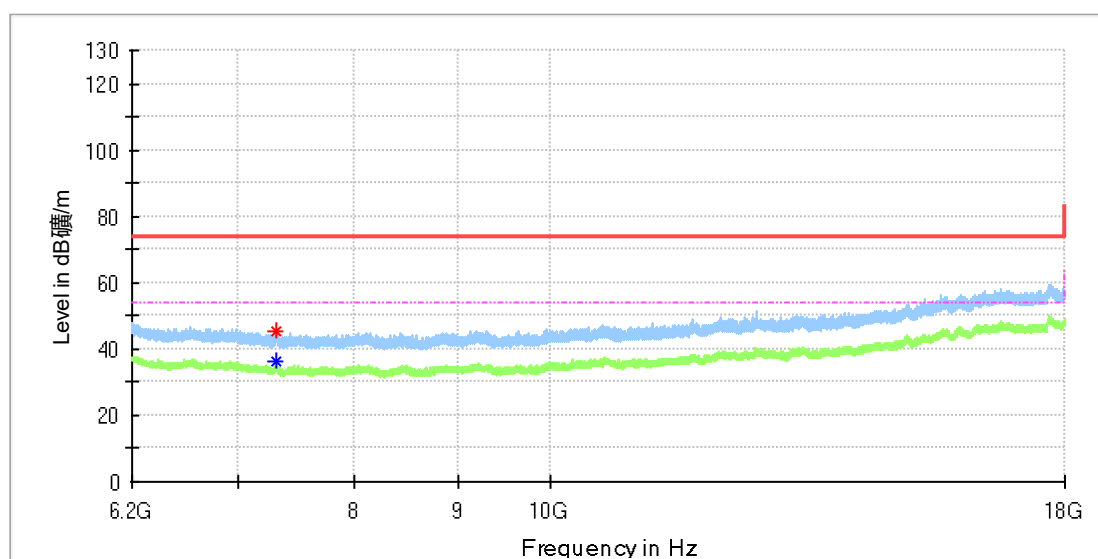
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4872.000000	51.07	---	74.00	22.93	100.0	H	170.0	11.8
4874.500000	---	38.25	54.00	15.75	100.0	H	347.0	11.8

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.0	100.0	100.0	100.0	0.0	0.0		0.0	0.0

EUT Information

EUT Name:	Control Extender
Model:	EL-IO-200
Test Mode:	Wi-Fi 2.4G 11n20_Mid Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Alano Qu
Reviewed By:	Terry Yin



Critical_Freqs

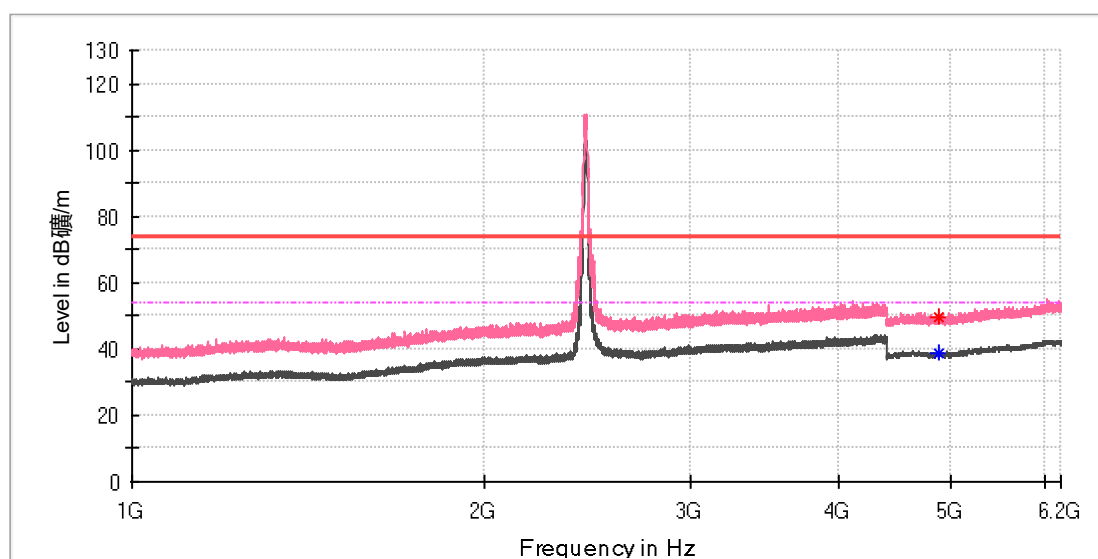
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7302.808333	45.21	---	74.00	28.79	100.0	H	248.0	8.3
7307.233333	---	36.15	54.00	17.85	100.0	H	248.0	8.3

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.5	118.0	120.0	120.0	0.0	30.0		0.0	

EUT Information

EUT Name:	Control Extender
Model:	EL-IO-200
Test Mode:	Wi-Fi 2.4G 11n20_Mid Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:49%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

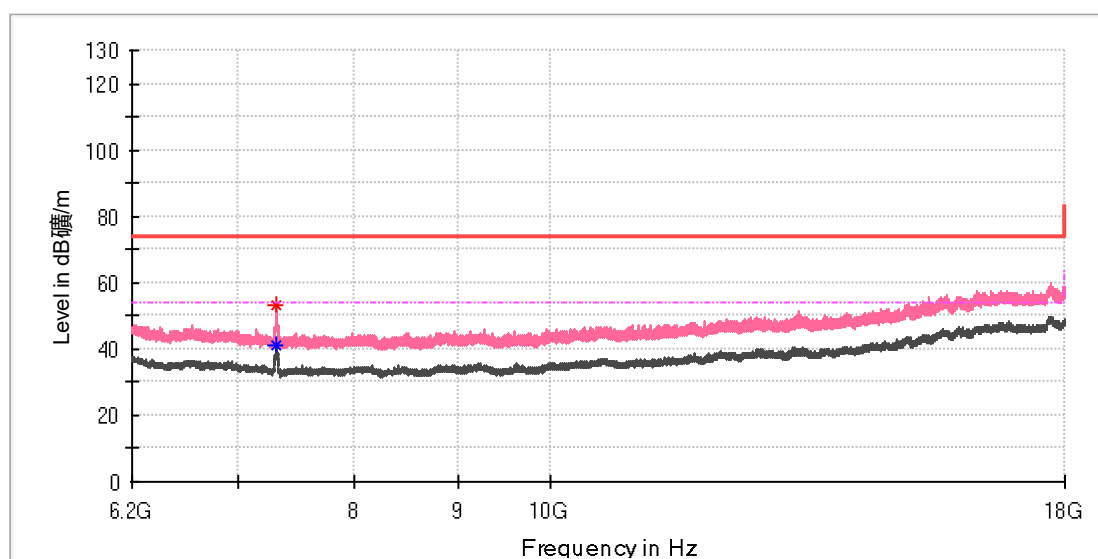
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4872.500000	---	38.43	54.00	15.57	100.0	V	254.0	11.8
4876.000000	49.73	---	74.00	24.27	100.0	V	194.0	11.8

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.0	100.0	100.0	100.0	0.0	0.0		0.0	0.0

EUT Information

EUT Name:	Control Extender
Model:	EL-IO-200
Test Mode:	Wi-Fi 2.4G 11n20_Mid Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Alano Qu
Reviewed By:	Terry Yin



Critical_Freqs

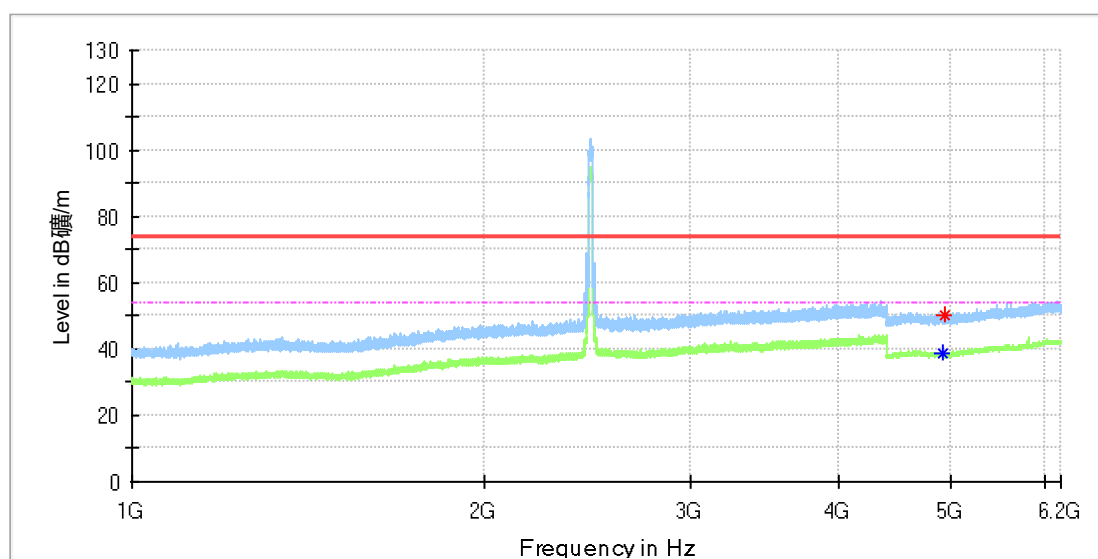
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7303.791667	53.05	---	74.00	20.95	100.0	V	266.0	8.3
7311.658333	---	41.08	54.00	12.92	100.0	V	150.0	8.2

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.0	100.0	100.0	100.0	0.0	0.0		0.0	0.0

EUT Information

EUT Name:	Control Extender
Model:	EL-IO-200
Test Mode:	Wi-Fi 2.4G 11n20_High Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:48%
Test Standard:	FCC 15.247
Tested By:	Alano Qu
Reviewed By:	Terry Yin



Critical_Freqs

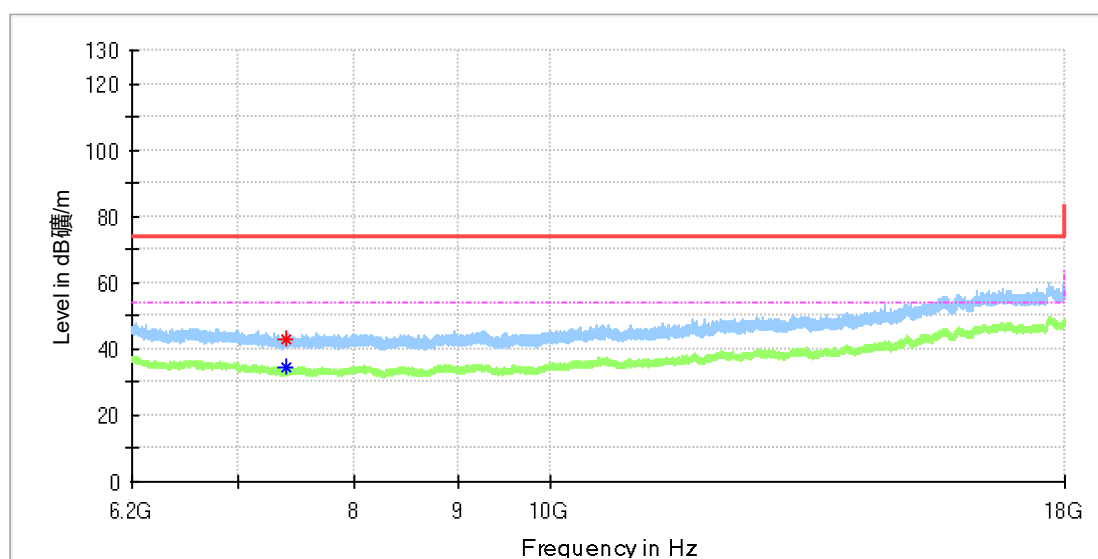
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4923.000000	---	38.62	54.00	15.38	100.0	H	207.0	11.8
4928.000000	50.11	---	74.00	23.89	100.0	H	157.0	11.8

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.5	118.0	120.0	120.0	0.0	30.0		0.0	

EUT Information

EUT Name:	Control Extender
Model:	EL-IO-200
Test Mode:	Wi-Fi 2.4G 11n20_High Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Alano Qu
Reviewed By:	Terry Yin



Critical_Freqs

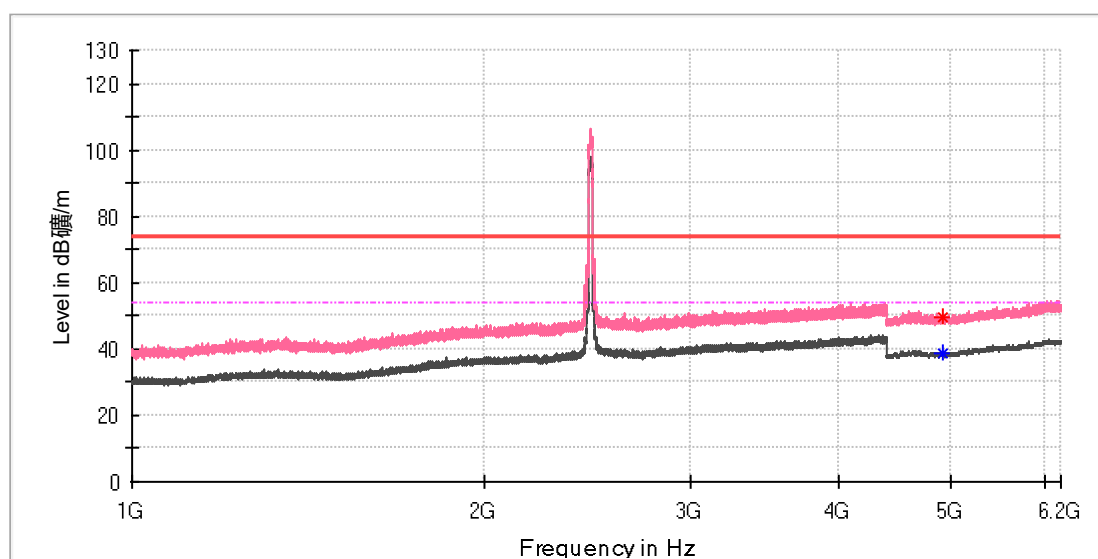
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7387.866667	42.91	---	74.00	31.09	100.0	H	354.0	8.2
7397.208333	---	34.73	54.00	19.27	100.0	H	181.0	8.3

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.0	100.0	100.0	100.0	0.0	0.0		0.0	0.0

EUT Information

EUT Name:	Control Extender
Model:	EL-IO-200
Test Mode:	Wi-Fi 2.4G 11n20_High Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:48%
Test Standard:	FCC 15.247
Tested By:	Alano Qu
Reviewed By:	Terry Yin



Critical_Freqs

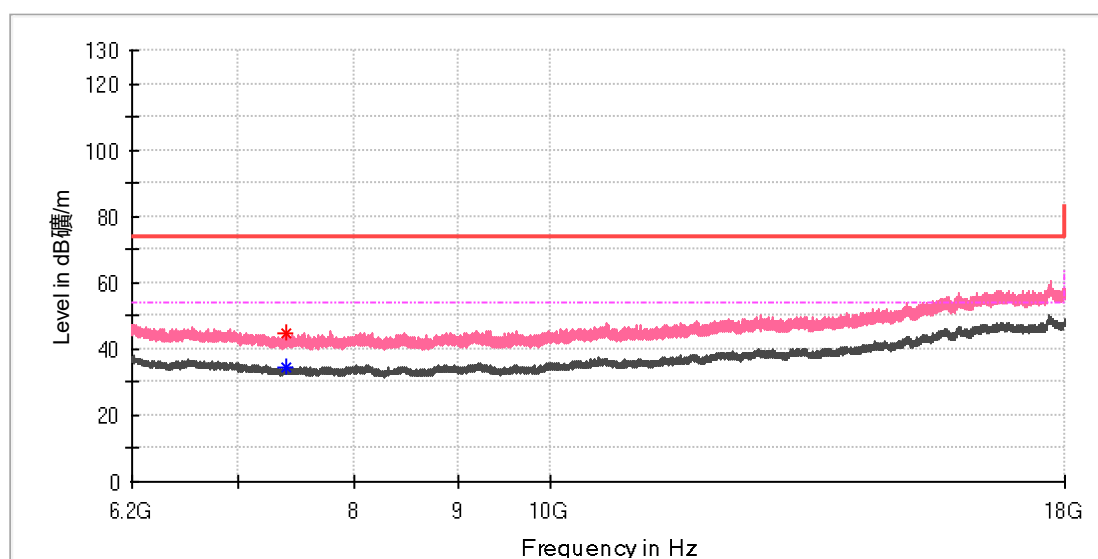
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4924.000000	---	38.68	54.00	15.32	100.0	V	251.0	11.8
4925.500000	49.33	---	74.00	24.67	100.0	V	243.0	11.8

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.0	100.0	100.0	100.0	0.0	0.0		0.0	0.0

EUT Information

EUT Name:	Control Extender
Model:	EL-IO-200
Test Mode:	Wi-Fi 2.4G 11n20_High Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Alano Qu
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)
7387.866667	---	34.68	54.00	19.32	100.0	V	260.0	8.2
7394.258333	44.86	---	74.00	29.14	100.0	V	314.0	8.3

Final Result

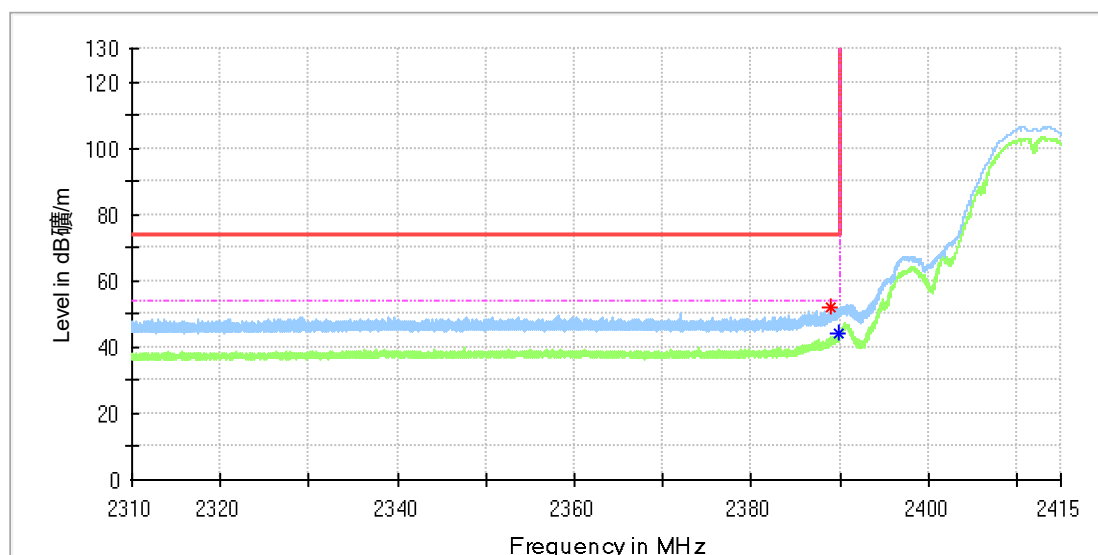
Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.5	118.0	120.0	120.0	0.0	30.0		0.0	

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

Wi-Fi 802.11 b mode, 1 Mbps

EUT Information

EUT Name:	Control Extender
Model:	EL-IO-200
Test Mode:	Wi-Fi 2.4G 11b_Low Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:49%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

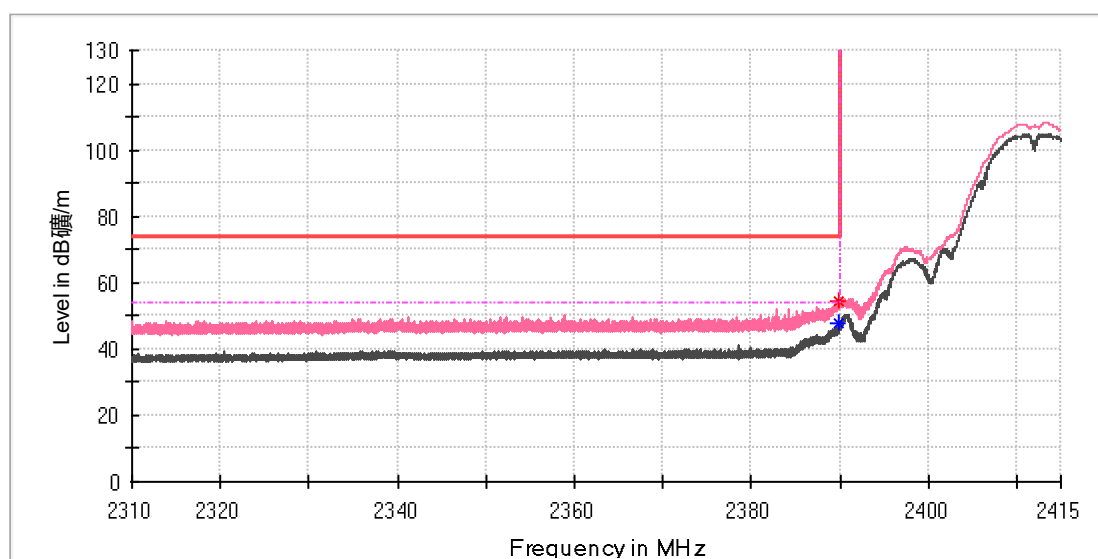
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2388.999375	52.06	---	74.00	21.94	100.0	H	128.0	7.0
2389.964063	---	44.07	54.00	9.93	100.0	H	140.0	7.0

Final Result

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

EUT Information

EUT Name:	Control Extender
Model:	EL-IO-200
Test Mode:	Wi-Fi 2.4G 11b_Low Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:49%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

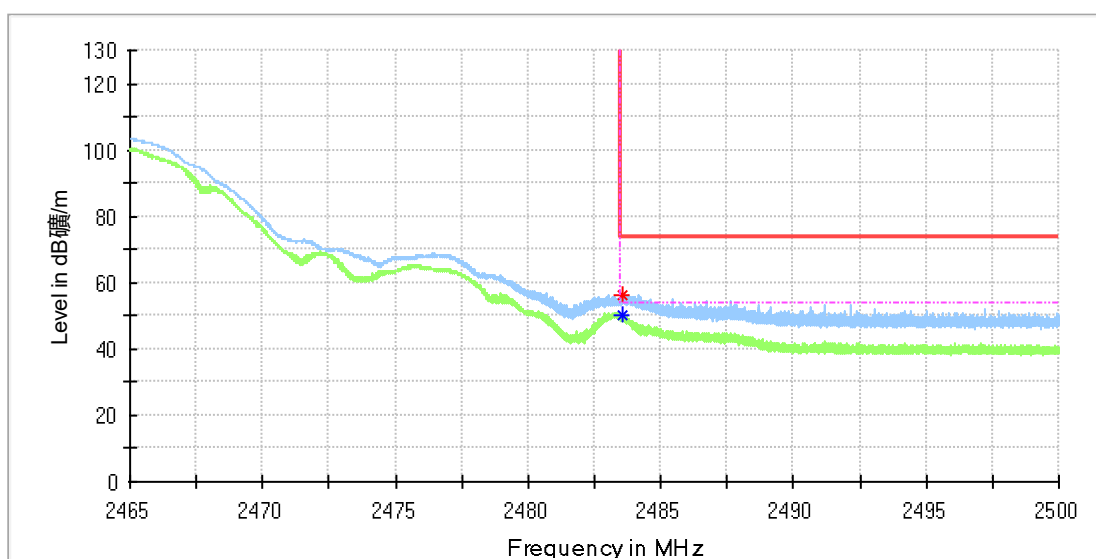
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.773750	54.23	---	74.00	19.77	100.0	V	158.0	7.0
2389.977188	---	47.55	54.00	6.45	100.0	V	158.0	7.0

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.0	100.0	100.0	100.0	0.0	0.0		0.0	0.0

EUT Information

EUT Name:	Control Extender
Model:	EL-IO-200
Test Mode:	Wi-Fi 2.4G 11b_High Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:49%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

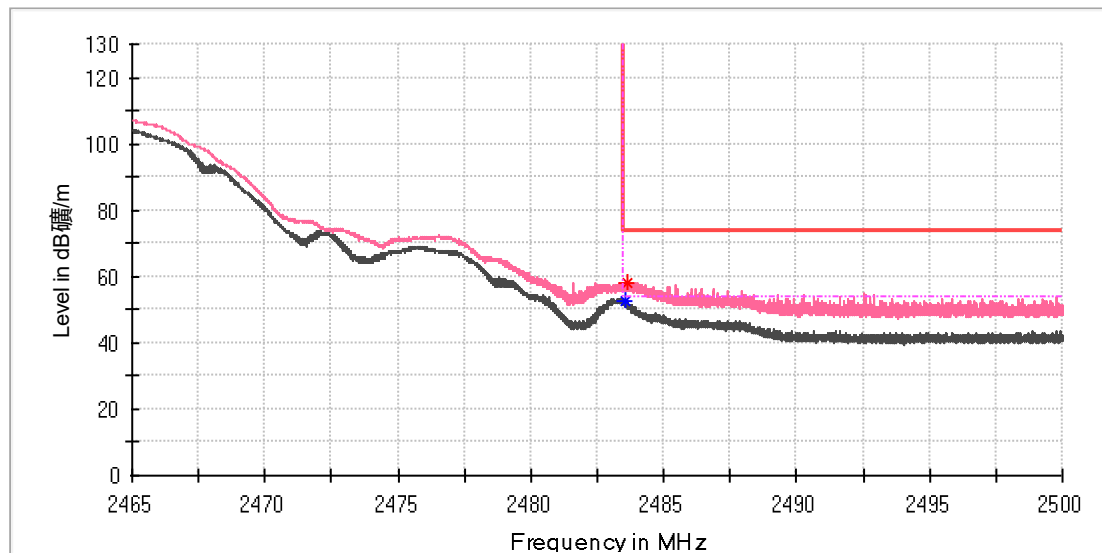
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.550000	---	50.15	54.00	3.85	100.0	H	153.0	7.4
2483.582813	55.98	---	74.00	18.02	100.0	H	165.0	7.4

Final Result

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

EUT Information

EUT Name:	Control Extender
Model:	EL-IO-200
Test Mode:	Wi-Fi 2.4G 11b_High Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:49%
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)
2483.560938	---	51.48	54.00	2.52	100.0	V	202.0	7.4
2483.630938	58.21	---	74.00	15.79	100.0	V	153.0	7.4

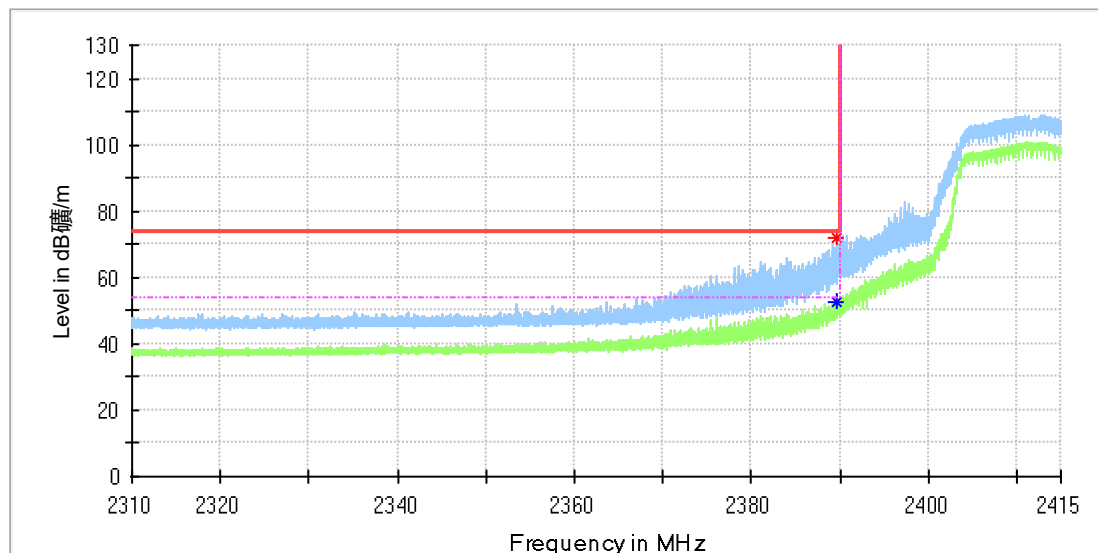
Final_Result

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

Wi-Fi 802.11 g mode, 6 Mbps

EUT Information

EUT Name:	Control Extender
Model:	EL-IO-200
Test Mode:	Wi-Fi 2.4G 11g_Low Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:48%
Test Standard:	FCC 15.247
Tested By:	Alano Qu
Reviewed By:	Terry Yin



Critical_Freqs

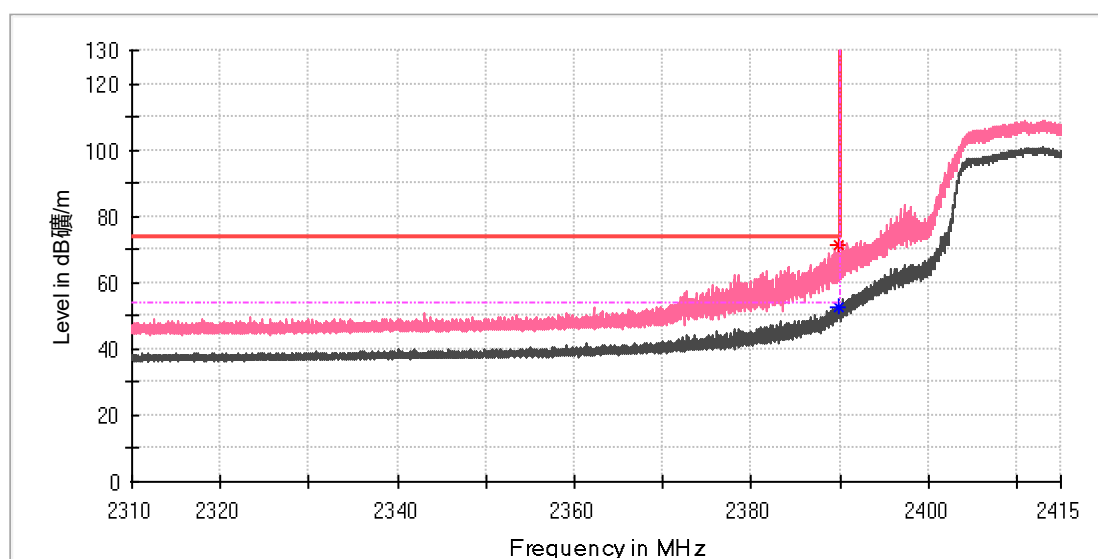
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.754063	72.13	---	74.00	1.87	100.0	H	305.0	7.0
2389.760625	---	52.91	54.00	1.09	100.0	H	305.0	7.0

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	122.0	118.0	120.0	2.0	300	V	135	0.0

EUT Information

EUT Name:	Control Extender
Model:	EL-IO-200
Test Mode:	Wi-Fi 2.4G 11g_Low Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:48%
Test Standard:	FCC 15.247
Tested By:	Alano Qu
Reviewed By:	Terry Yin



Critical_Freqs

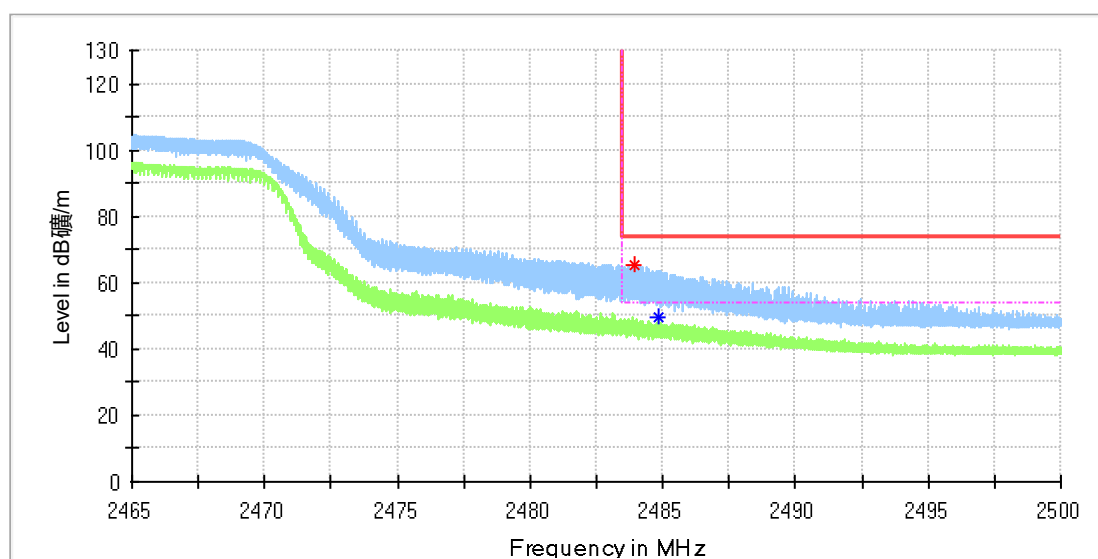
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.859063	---	52.86	54.00	1.14	100.0	V	313.0	7.0
2389.878750	71.40	---	74.00	2.60	100.0	V	313.0	7.0

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.0	100.0	100.0	100.0	0.0	0.0		0.0	0.0

EUT Information

EUT Name:	Control Extender
Model:	EL-IO-200
Test Mode:	Wi-Fi 2.4G 11g_High Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:48%
Test Standard:	FCC 15.247
Tested By:	Alano Qu
Reviewed By:	Terry Yin



Critical_Freqs

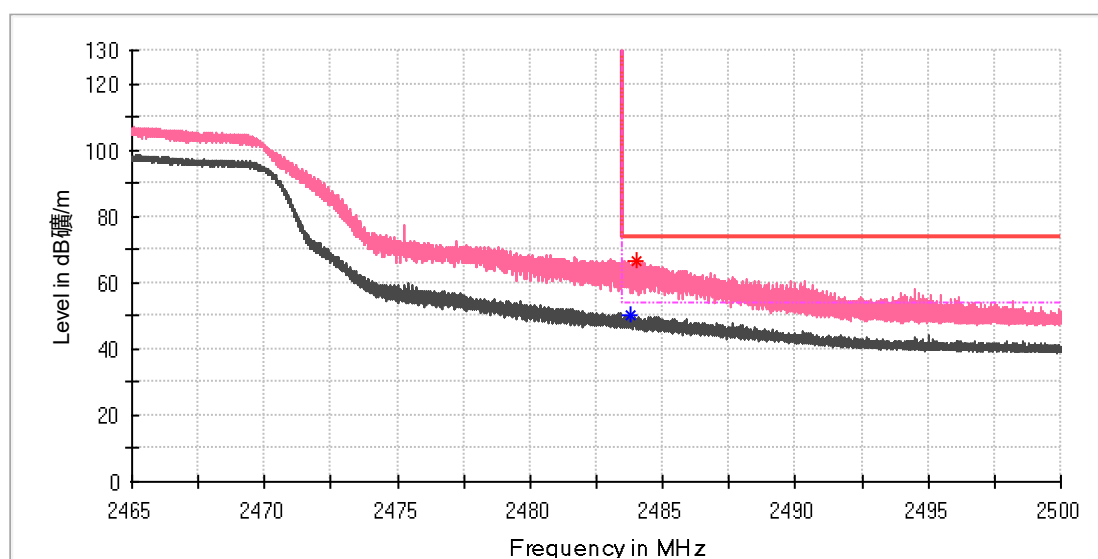
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.904375	65.19	---	74.00	8.81	100.0	H	305.0	7.4
2484.825313	---	49.37	54.00	4.63	100.0	H	305.0	7.4

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	122.5	122.5	122.5	0	100	V	135	0

EUT Information

EUT Name:	Control Extender
Model:	EL-IO-200
Test Mode:	Wi-Fi 2.4G 11g_High Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:48%
Test Standard:	FCC 15.247
Tested By:	Alano Qu
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)
2483.764375	---	50.05	54.00	3.95	100.0	V	320.0	7.4
2483.974375	66.44	---	74.00	7.56	100.0	V	320.0	7.4

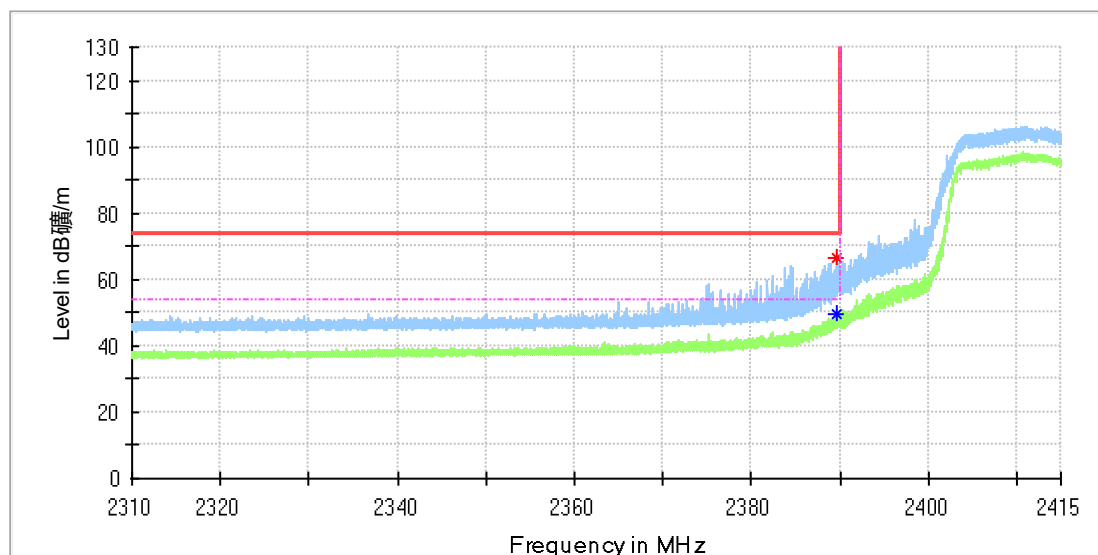
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.000000	100.000000	100.000000	100.000000	100.000000	100.000000		100.000000	100.000000

Wi-Fi 802.11 n(HT20) mode, MCS0

EUT Information

EUT Name:	Control Extender
Model:	EL-IO-200
Test Mode:	Wi-Fi 2.4G 11n20_Low Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:48%
Test Standard:	FCC 15.247
Tested By:	Alano Qu
Reviewed By:	Terry Yin



Critical_Freqs

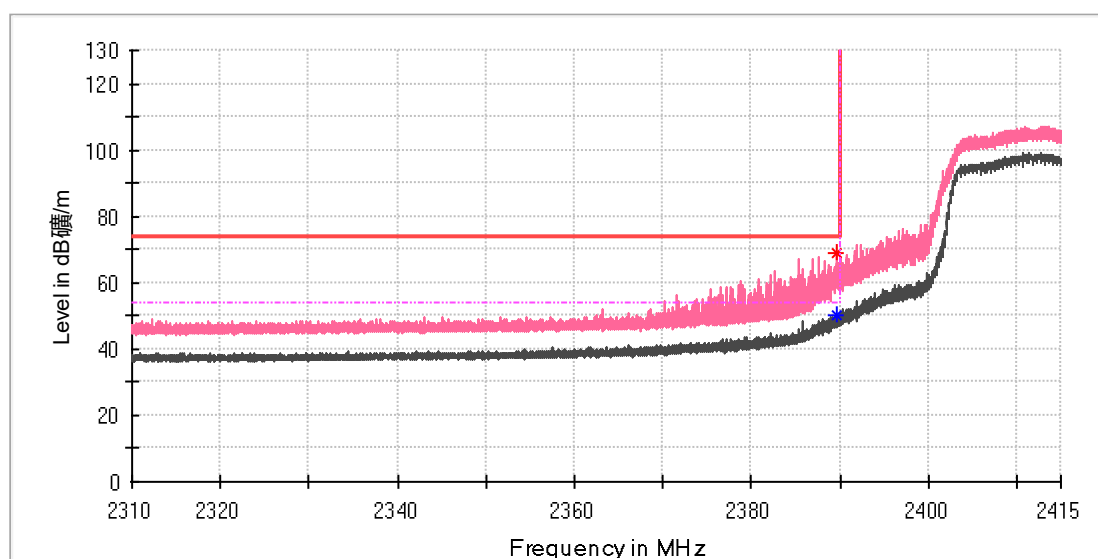
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.695000	66.25	---	74.00	7.75	100.0	H	308.0	7.0
2389.727813	---	49.40	54.00	4.60	100.0	H	308.0	7.0

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.750000	122.00	122.00	122.00	0.00	300.00	000	000	0.00

EUT Information

EUT Name:	Control Extender
Model:	EL-IO-200
Test Mode:	Wi-Fi 2.4G 11n20_Low Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:48%
Test Standard:	FCC 15.247
Tested By:	Alano Qu
Reviewed By:	Terry Yin



Critical_Freqs

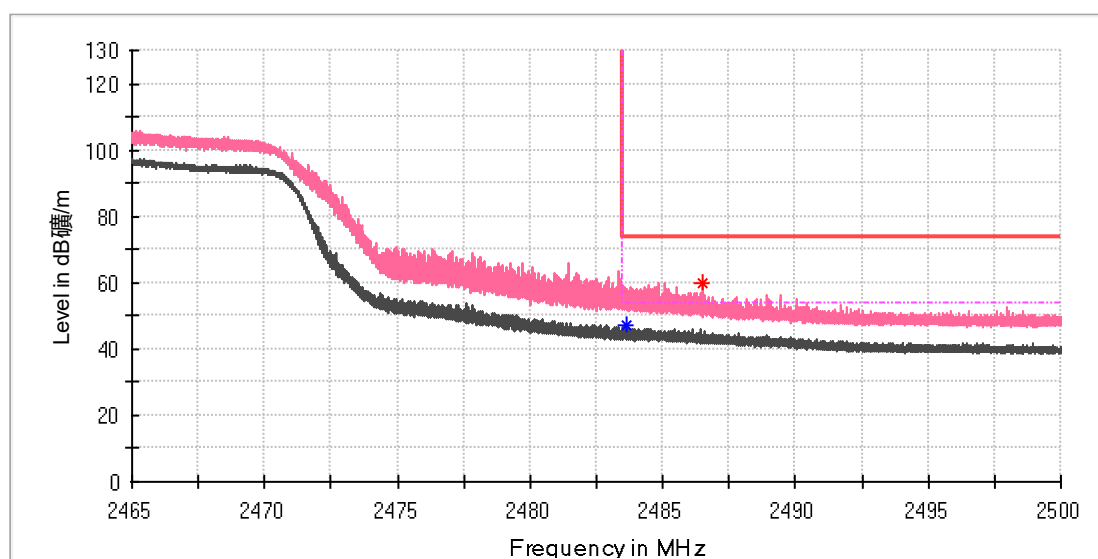
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.681875	---	50.45	54.00	3.55	100.0	V	320.0	7.0
2389.629375	68.92	---	74.00	5.08	100.0	V	331.0	7.0

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.75	100.00	100.00	100.00	0.00	0.00		0.00	

EUT Information

EUT Name:	Control Extender
Model:	EL-IO-200
Test Mode:	Wi-Fi 2.4G 11n20_High Channel
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:48%
Test Standard:	FCC 15.247
Tested By:	Alano Qu
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)
2483.602500	---	47.14	54.00	6.86	100.0	V	327.0	7.4
2486.463750	59.92	---	74.00	14.08	100.0	V	327.0	7.4

Final Result

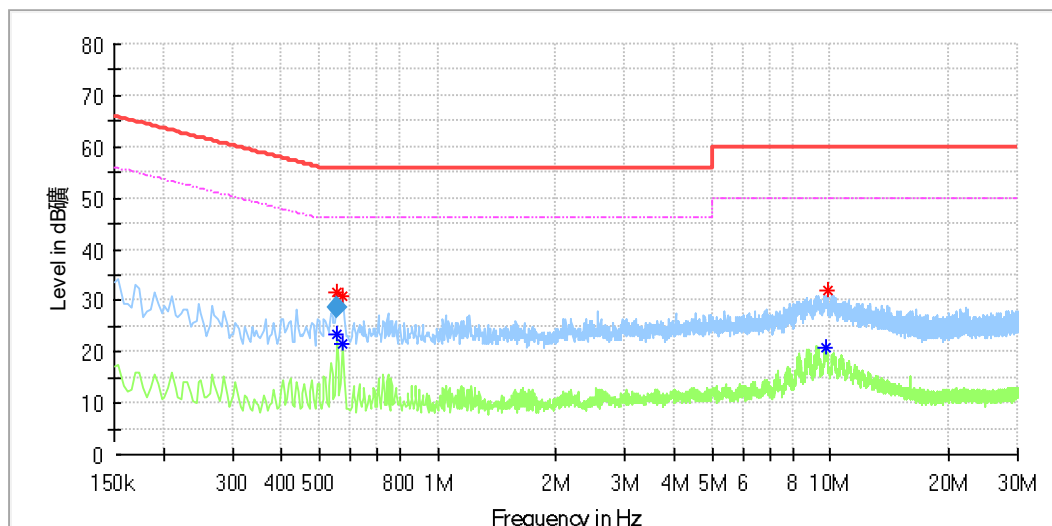
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.000	100.000	100.000	100.000	100.000	100.000		100.000	100.000

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

Wi-Fi 802.11 b/g/n connecting mode

EUT Information

EUT Name:	Control Extender
Model:	EL-IO-200
Sample No	A002938509-003
Test Mode:	WIFI2.4G connected
Test Voltage:	120V/60Hz
Remark:	Temp:23.1;Humi:52%
Test standard:	FCC 15C
Tested By:	Xlqiang Ma
Reviewed by	Terry Yin



Critical_Freqs

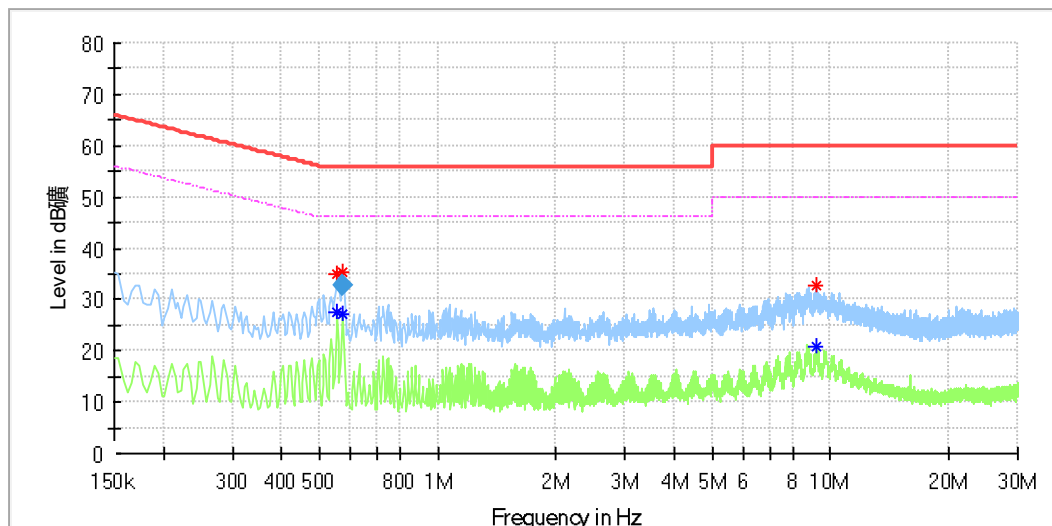
Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line
0.553500	31.72	---	56.00	24.28	---	L1
0.554000	---	23.26	46.00	22.74	---	L1
0.574000	---	21.69	46.00	24.31	---	L1
0.574000	30.71	---	56.00	25.29	---	L1
9.718000	---	20.97	50.00	29.03	---	L1
9.894000	31.84	---	60.00	28.16	---	L1

Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.553500	28.49	---	56.00	27.51	1000.0	9.000	L1

EUT Information

EUT Name: Control Extender
Model: EL-IO-200
Sample No: A002938509-003
Test Mode: WIFI2.4G connected
Test Voltage: 120V/60Hz
Remark: Temp:23.1;Humi:52%
Test standard: FCC 15C
Tested By: Xlqiang Ma
Reviewed by: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line
0.554000	---	27.51	46.00	18.49	---	N
0.554000	34.92	---	56.00	21.08	---	N
0.573500	35.52	---	56.00	20.48	---	N
0.574000	---	27.01	46.00	18.99	---	N
9.182000	---	20.66	50.00	29.34	---	N
9.202000	32.77	---	60.00	27.23	---	N

Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.573500	32.70	---	56.00	23.30	1000.0	9.000	N