

Appendix B: Test Results of FCC 15B

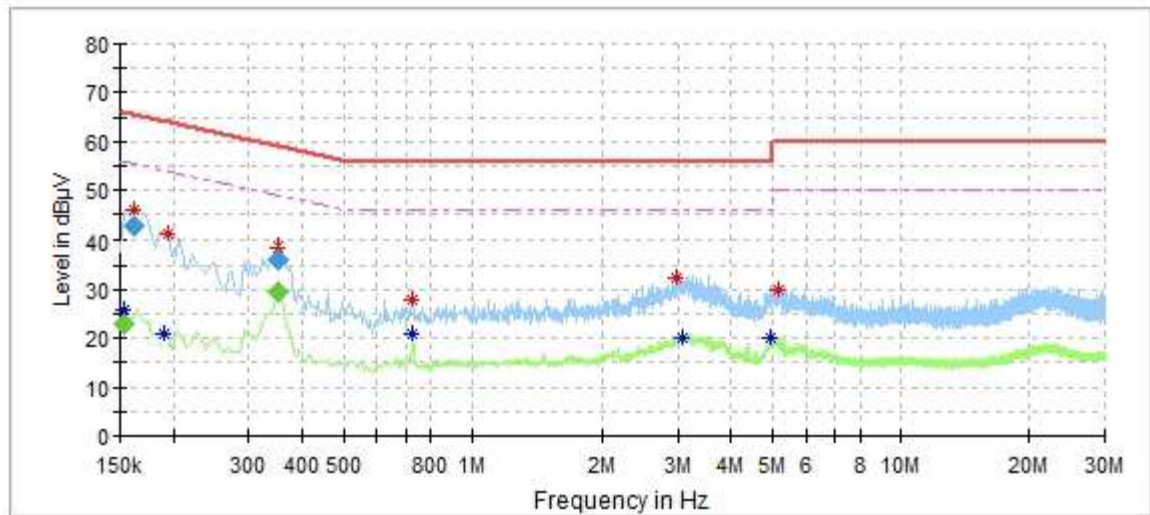
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Appendix B.1: Test Plots of Conducted Emission on AC Mains

AC port

EUT Information

EUT Name:	Data Terminal
Order No.:	168313547
Model:	eCube-CP-AU
Test Mode:	ON
Test Voltage:	AC 120V/60Hz
Test By:	Jianhua Lu
Review By:	Gary Chen
Remark:	SR1



Critical Freqs

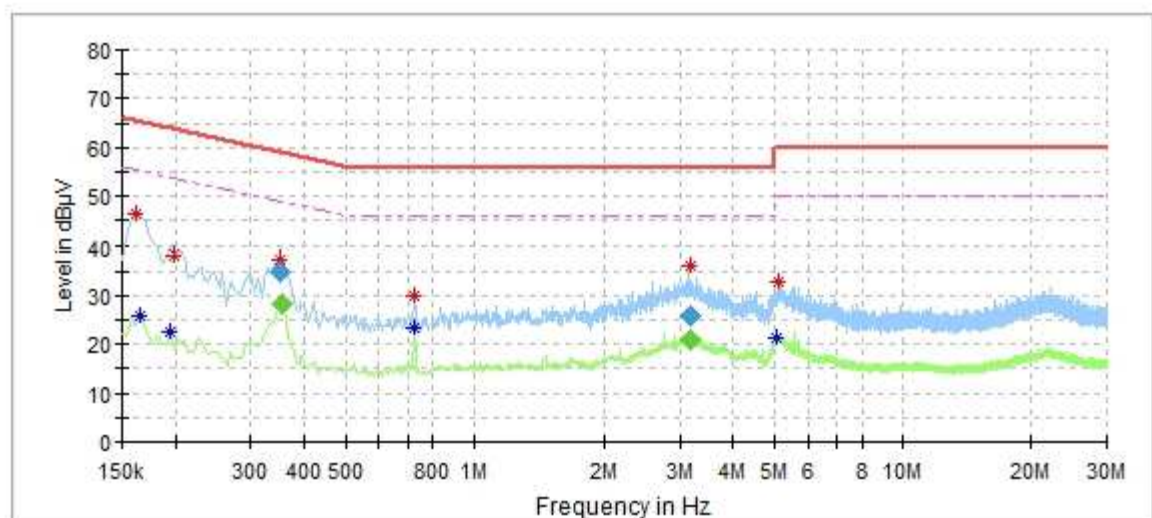
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.152500	---	25.86	55.16	29.30	L1	9.6
0.162000	45.99	---	65.36	19.37	L1	9.6
0.190000	---	20.84	54.04	33.20	L1	9.6
0.194000	41.21	---	63.86	22.66	L1	9.6
0.352500	38.41	---	58.87	20.46	L1	9.7
0.352500	---	29.63	48.87	19.24	L1	9.7
0.728000	---	20.98	46.00	25.02	L1	9.7
0.728000	27.73	---	56.00	28.27	L1	9.7
2.992000	32.40	---	56.00	23.60	L1	9.8
3.084000	---	20.05	46.00	25.95	L1	9.8
4.932000	---	20.11	46.00	25.89	L1	9.9
5.144000	30.14	---	60.00	29.86	L1	10.0

Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.152500	---	22.82	55.86	33.04	200.0	9.000	L1	9.6
0.162000	42.61	---	65.36	22.75	200.0	9.000	L1	9.6
0.352500	---	29.71	48.90	19.20	200.0	9.000	L1	9.7
0.352500	35.93	---	58.90	22.98	200.0	9.000	L1	9.7

EUT Information

EUT Name: Data Terminal
Order No.: 168313547
Model: eCube-CP-AU
Test Mode: ON
Test Voltage: AC 120V/60Hz
Test By: Jianhua Lu
Review By: Gary Chen
Remark: SR1



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.162000	46.55	---	65.36	18.81	N	9.6
0.166000	---	25.67	55.16	29.48	N	9.6
0.194000	---	22.68	53.86	31.18	N	9.6
0.198000	38.21	---	63.69	25.48	N	9.6
0.352500	37.32	---	58.96	21.65	N	9.7
0.356500	---	28.47	48.87	20.40	N	9.7
0.728000	---	23.26	46.00	22.74	N	9.7
0.728000	30.13	---	56.00	25.87	N	9.7
3.169500	36.28	---	56.00	19.72	N	9.8
3.170500	---	21.44	46.00	24.56	N	9.8
5.052000	---	21.42	50.00	28.58	N	9.9
5.104000	32.97	---	60.00	27.03	N	9.9

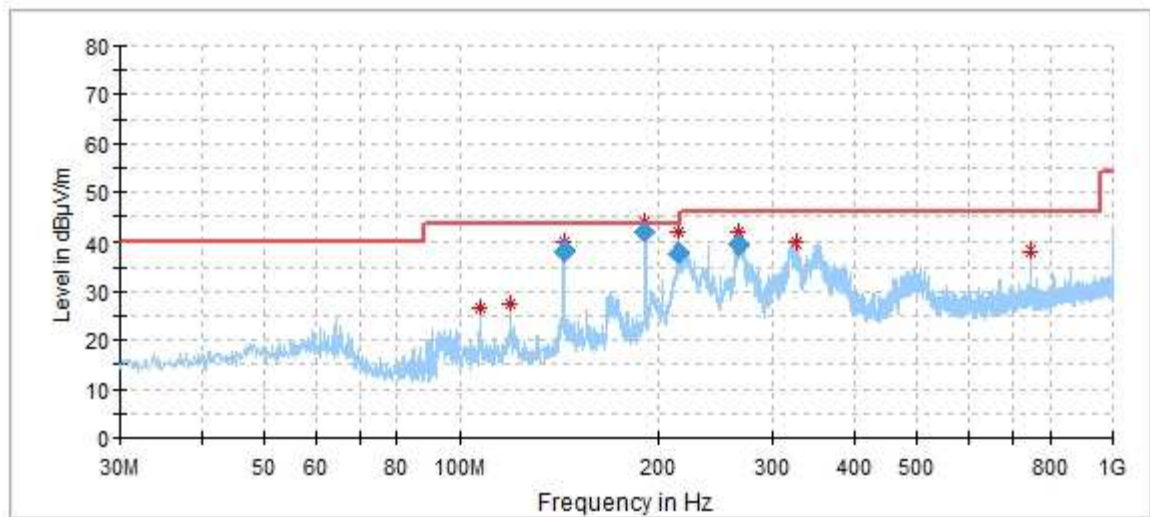
Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.352500	34.85	---	58.90	24.05	200.0	9.000	N	9.7
0.356500	---	28.34	48.81	20.47	200.0	9.000	N	9.7
3.169500	25.90	---	56.00	30.10	200.0	9.000	N	9.8
3.170500	---	20.85	46.00	25.15	200.0	9.000	N	9.8

Appendix B.2: Test Plots of Radiated Emission, Below 1GHz

EUT Information

EUT Name:	Data Terminal
Model	eCube-CP-AU
Order No:	168313547
Test Mode:	On
Test Voltage:	AC 120V60Hz
Test By:	Jianhua Lu
Review By:	Gary Chen
Adapter:	3m Chamber



Critical_Freqs

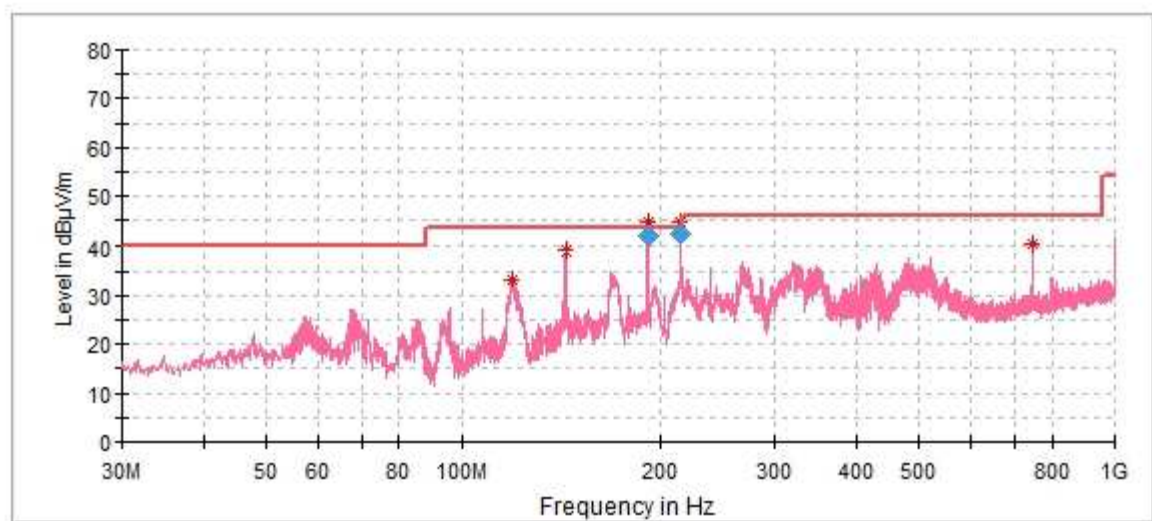
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
107.309000	26.62	43.50	16.88	200.0	H	192.0	17.6
119.143000	27.64	43.50	15.86	200.0	H	0.0	19.2
143.219000	39.92	43.50	3.58	197.0	H	325.0	20.2
190.846000	43.78	43.50	-0.28	175.0	H	199.0	17.4
215.307000	41.72	43.50	1.78	187.0	H	72.0	18.3
266.523000	41.77	46.00	4.23	100.0	H	218.0	20.4
326.238000	39.82	46.00	6.18	100.0	H	171.0	21.6
750.031000	38.04	46.00	7.96	100.0	H	348.0	30.6

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
143.219000	37.96	43.50	5.54	1000.0	120.000	197.0	H	325.0	20.2
190.846000	41.82	43.50	1.68	1000.0	120.000	175.0	H	199.0	17.4
215.307000	37.87	43.50	5.63	1000.0	120.000	187.0	H	72.0	18.3
266.523000	39.45	46.00	6.55	1000.0	120.000	100.0	H	218.0	20.4

EUT Information

EUT Name:	Data Terminal
Model	eCube-CP-AU
Order No:	168313547
Test Mode:	On
Test Voltage:	AC 120V60Hz
Test By:	Jianhua Lu
Review By:	Gary Chen
Adapter:	3m Chamber



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
119.434000	33.19	43.50	10.31	100.0	V	292.0	19.2
143.102000	39.05	43.50	4.45	100.0	V	21.0	20.2
191.331000	44.64	43.50	-1.14	105.0	V	322.0	17.4
215.330000	44.64	43.50	-1.14	100.0	V	323.0	18.3
750.031000	40.34	46.00	5.66	100.0	V	174.0	30.6

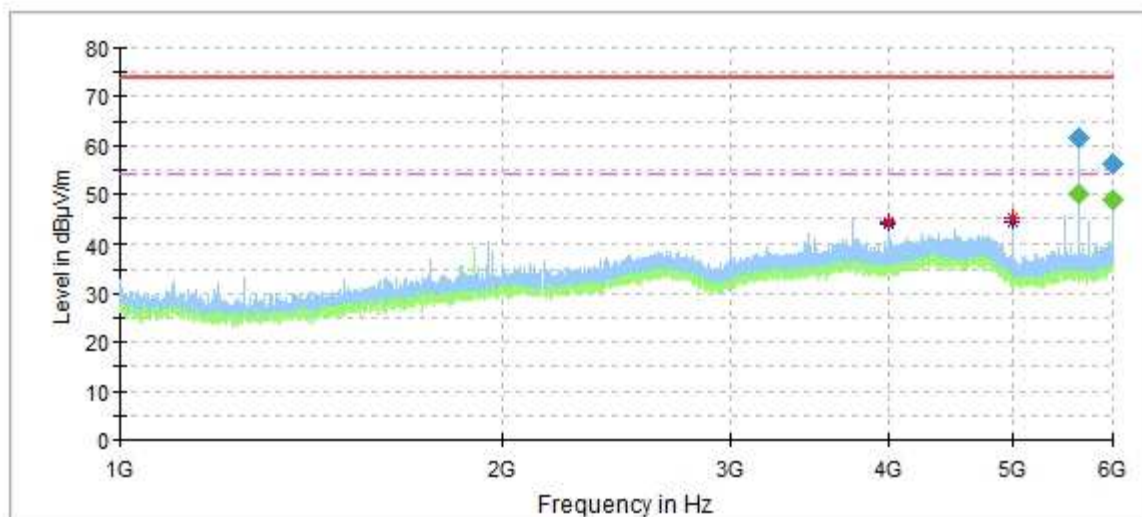
Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
191.331000	41.95	43.50	1.55	1000.0	120.000	105.0	V	322.0	17.4
215.330000	42.31	43.50	1.19	1000.0	120.000	100.0	V	323.0	18.3

Appendix B.3: Test Plots of Radiated Emission, Above 1GHz

EUT Information

EUT Name:	Data Terminal
Model	eCube-CP-AU
Order No:	168313547
Test Mode:	On
Test Voltage:	AC 120V60Hz
Test By:	Jianhua Lu
Review By:	Gary Chen
Adapter:	3m Chamber



Critical_Freqs

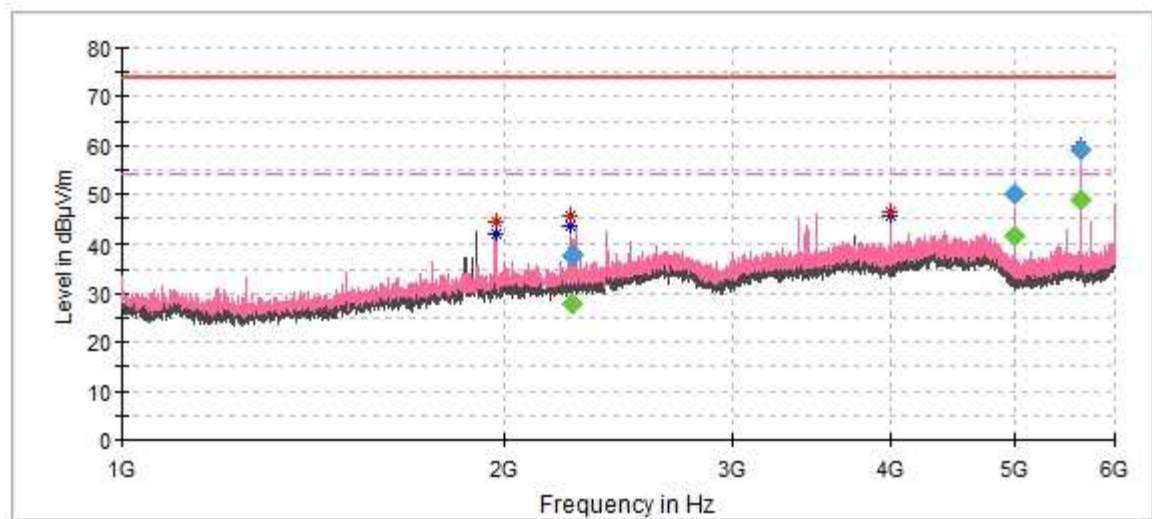
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4000.500000	---	43.75	54.00	10.25	100.0	H	222.0	-0.1
4000.500000	44.37	---	74.00	29.63	100.0	H	222.0	-0.1
5000.500000	---	44.32	54.00	9.68	100.0	H	342.0	-0.8
5000.500000	44.93	---	74.00	29.07	100.0	H	342.0	-0.8
5639.600000	---	50.55	54.00	3.45	100.0	H	230.0	0.7
5640.000000	61.08	---	74.00	12.92	100.0	H	228.0	0.7
6000.000000	56.24	---	74.00	17.76	100.0	H	229.0	2.5
6000.000000	---	49.16	54.00	4.84	100.0	H	231.0	2.5

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5639.600000	---	49.97	54.00	4.03	100.0	H	230.0	0.7
5640.000000	61.67	---	74.00	12.33	100.0	H	228.0	0.7
6000.000000	---	48.84	54.00	5.16	100.0	H	231.0	2.5
6000.000000	56.26	---	74.00	17.74	100.0	H	229.0	2.5

EUT Information

EUT Name:	Data Terminal
Model	eCube-CP-AU
Order No:	168313547
Test Mode:	On
Test Voltage:	AC 120V60Hz
Test By:	Jianhua Lu
Review By:	Gary Chen
Adapter:	3m Chamber



Critical Freqs

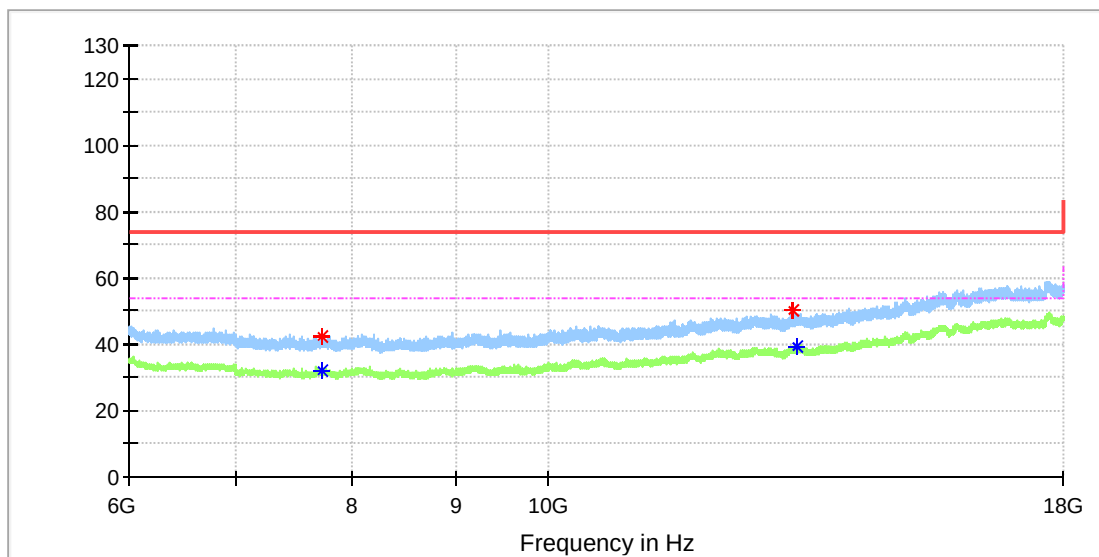
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1964.500000	---	41.99	54.00	12.01	100.0	V	132.0	-7.9
1964.500000	44.36	---	74.00	29.64	100.0	V	132.0	-7.9
2249.800000	---	43.44	54.00	10.56	100.0	V	132.0	-7.0
2252.200000	45.71	---	74.00	28.29	100.0	V	132.0	-7.0
4000.000000	---	45.60	54.00	8.40	100.0	V	205.0	-0.1
4000.000000	46.35	---	74.00	27.65	100.0	V	205.0	-0.1
5000.100000	50.63	---	74.00	23.37	200.0	V	343.0	-0.8
5000.100000	---	41.39	54.00	12.61	200.0	V	343.0	-0.8
5639.600000	---	49.36	54.00	4.64	200.0	V	222.0	0.7
5640.000000	59.86	---	74.00	14.14	200.0	V	222.0	0.7

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2249.800000	---	27.99	54.00	26.01	100.0	V	91.0	-7.0
2252.200000	37.91	---	74.00	36.09	100.0	V	90.0	-7.0
5000.100000	---	41.35	54.00	12.65	200.0	V	343.0	-0.8
5000.100000	50.01	---	74.00	23.99	200.0	V	343.0	-0.8
5639.600000	---	48.64	54.00	5.36	200.0	V	222.0	0.7
5640.000000	59.12	---	74.00	14.88	200.0	V	222.0	0.7

EUT Information

EUT Name:	Data Terminal
Model:	eCube-CP-AU
Test Mode:	On
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:55%
Test Standard:	FCC Part 15B
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



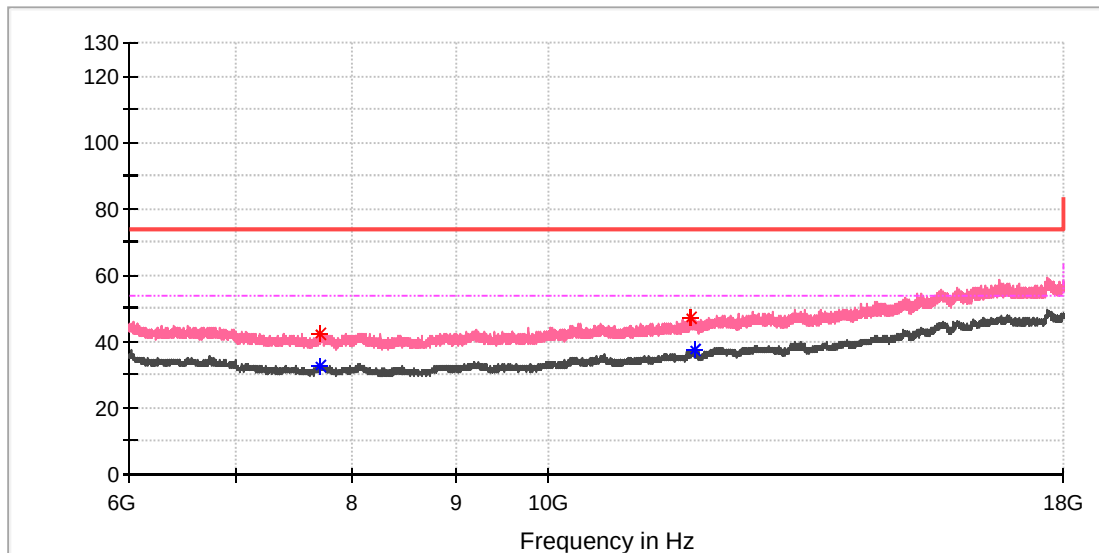
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7716.300000	---	32.33	54.00	21.67	100.0	H	138.0	8.7
7728.591667	42.45	---	74.00	31.55	100.0	H	262.0	8.7
13222.966667	50.48	---	74.00	23.52	100.0	H	193.0	15.5
13285.900000	---	39.55	54.00	14.45	100.0	H	81.0	15.5

Test Report

EUT Information

EUT Name:	Data Terminal
Model:	eCube-CP-AU
Test Mode:	On
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:55%
Test Standard:	FCC Part 15B
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)
7706.958333	42.49	---	74.00	31.51	100.0	V	192.0	8.7
7710.400000	---	32.69	54.00	21.31	100.0	V	234.0	8.7
11774.025000	47.38	---	74.00	26.62	100.0	V	263.0	13.4
11809.425000	---	37.47	54.00	16.53	100.0	V	80.0	13.5