

Test Report No.10052206 10052424 001

Appendix D: Radiated and Mains Spurious Emission Data

(File: 10052206 10052424AppendixD)

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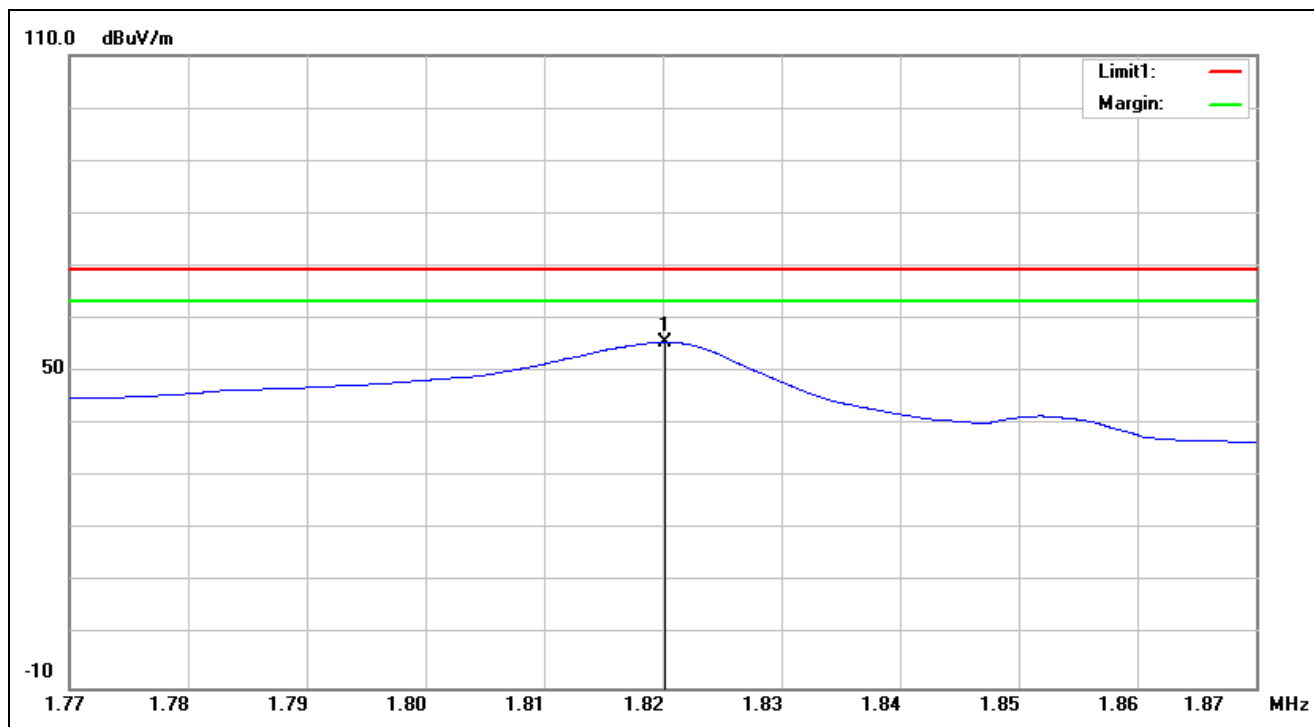
Emissions, Fundamental



TUV Taiwan

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Service No.:	114038311-NCC	Test Distance:	0m
Test Standard:	NCC2.8_9k-1G	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2015/7/22 16:08:55
Applicant:	Wacom	Test Rating:	DC 3V
Product:	HP Active Pen	Temp.(°C)/Hum.(%):	23.9(°C)/53%
Model No.:	HSTNN-W01P	Test Engineer:	Hugo Chang
Test Mode:	Fundamental field strength		
Remark:	1.8MHz		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1.8168	19.29	36.34	55.63	69.50	-13.87	QP		0	

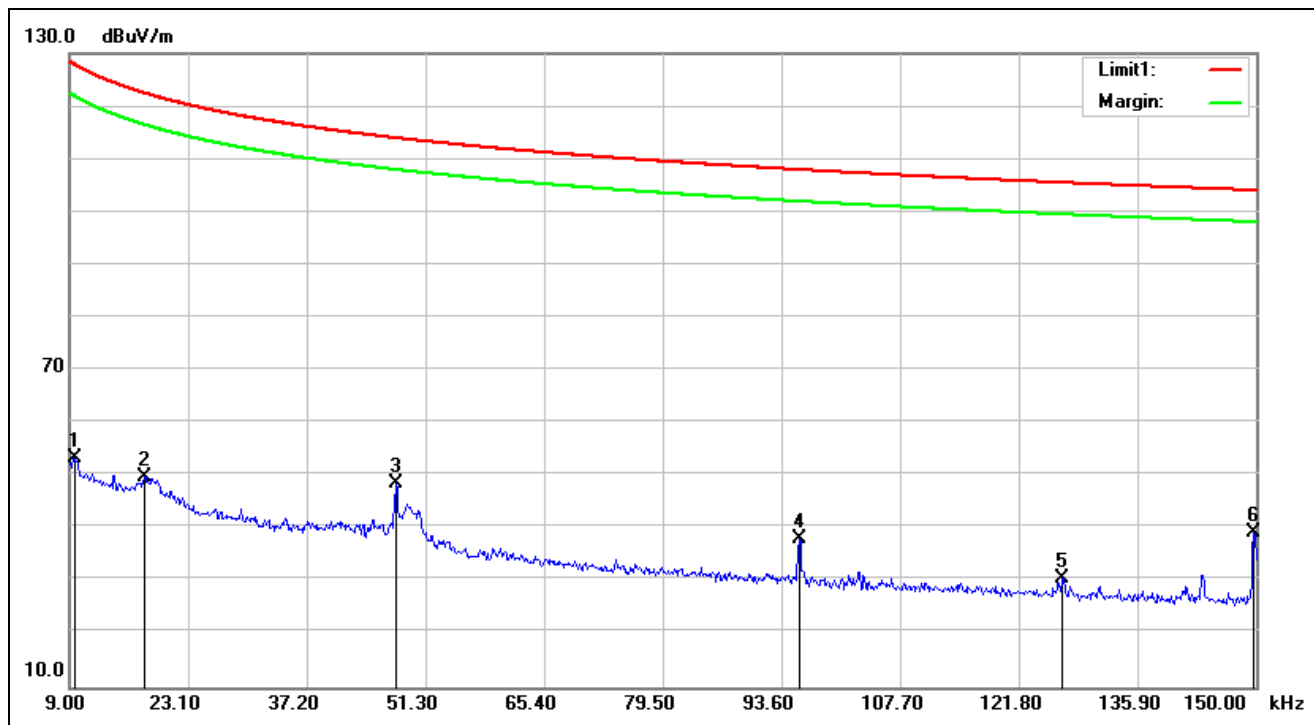
Spurious Emissions, TX Mode, 9-150k



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Service No.:	114038311-NCC	Test Distance:	3m
Test Standard:	NCC2.8_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2015/7/22 15:53:30
Applicant:	Wacom	Test Rating:	DC 3V
Product:	HP Active Pen	Temp.(°C)/Hum.(%):	23.9(°C)/53%
Model No.:	HSTNN-W01P	Test Engineer:	Hugo Chang
Test Mode:	TX		
Remark:	1.8MHz		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.0096	20.31	33.07	53.38	127.84	-74.46	QP		0	
2	0.0179	20.49	29.22	49.71	122.45	-72.74	QP		0	
3	0.0478	19.71	28.71	48.42	113.95	-65.53	QP		0	
4	0.0957	19.27	18.91	38.18	107.94	-69.76	QP		0	
5	0.1270	19.24	11.42	30.66	105.49	-74.83	QP		0	
6	0.1497	19.25	19.99	39.24	104.06	-64.82	QP		0	

Spurious Emissions, TX Mode, 1-10G

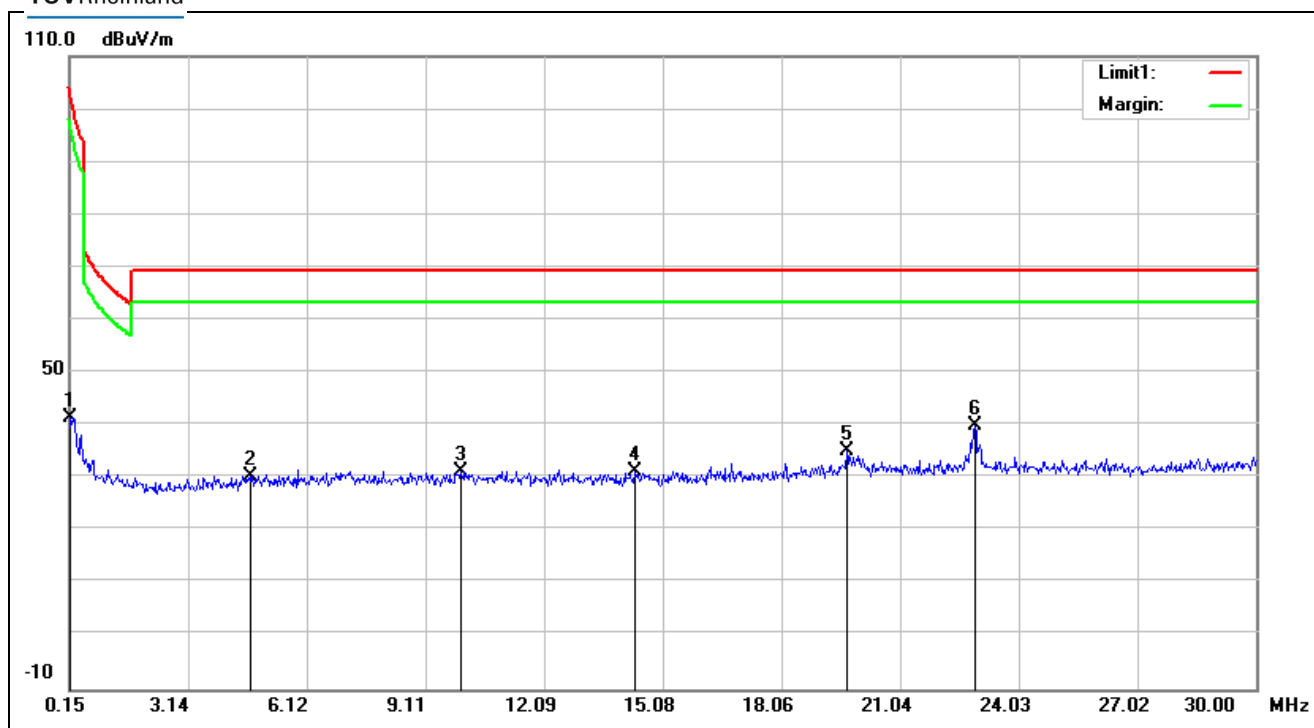
Spurious Emissions, TX Mode, 150k-30M



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Service No.:	114038311-NCC	Test Distance:	3m
Test Standard:	NCC2.8_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2015/7/22 15:55:31
Applicant:	Wacom	Test Rating:	DC 3V
Product:	HP Active Pen	Temp.(°C)/Hum.(%)	23.9(°C)/53%
Model No.:	HSTNN-W01P	Test Engineer:	Hugo Chang
Test Mode:	TX		
Remark:	1.8MHz		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.1500	19.25	22.21	41.46	104.02	-62.56	QP			
2	4.7171	19.62	10.87	30.49	69.50	-39.01	QP			
3	10.0004	20.49	10.88	31.37	69.50	-38.13	QP			
4	14.3586	21.04	10.36	31.40	69.50	-38.10	QP			
5	19.7018	21.71	13.50	35.21	69.50	-34.29	QP			
6	22.9255	21.91	18.02	39.93	69.50	-29.57	QP			

Spurious Emissions, TX Mode, 30M-1G

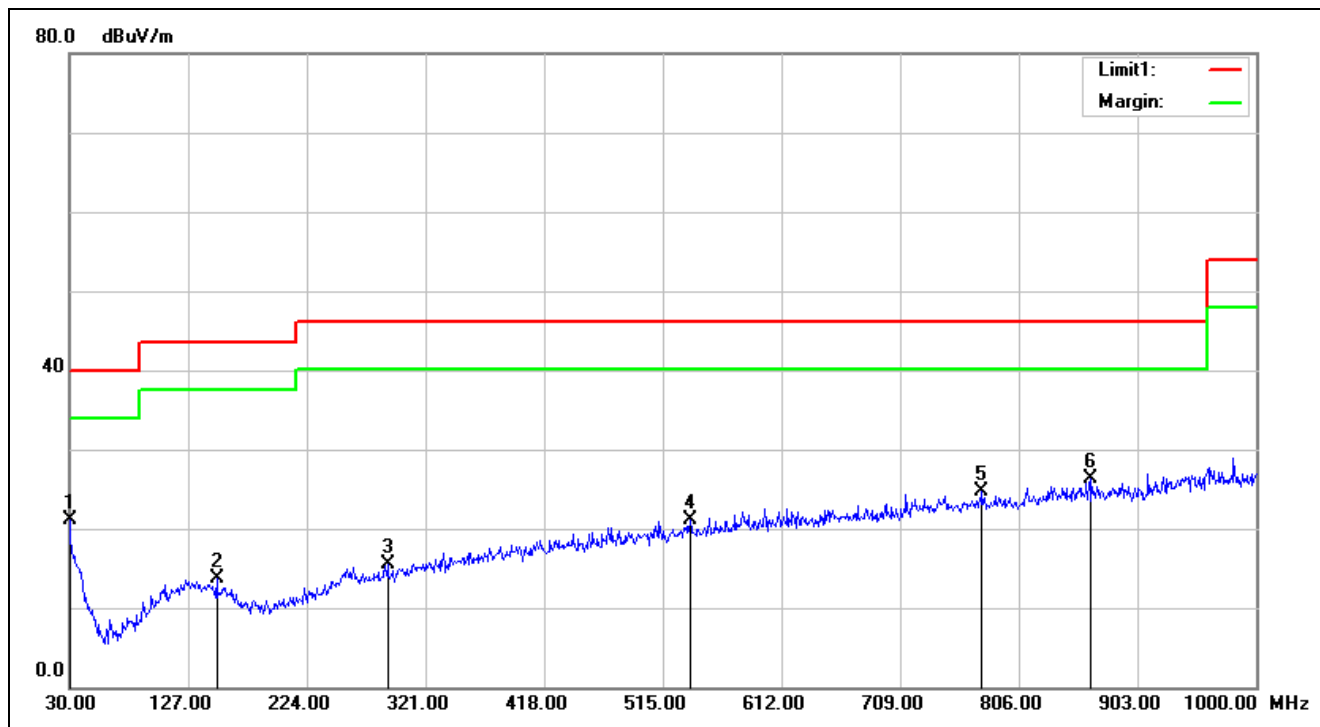
Spurious Emissions, TX Mode, 30M-1G



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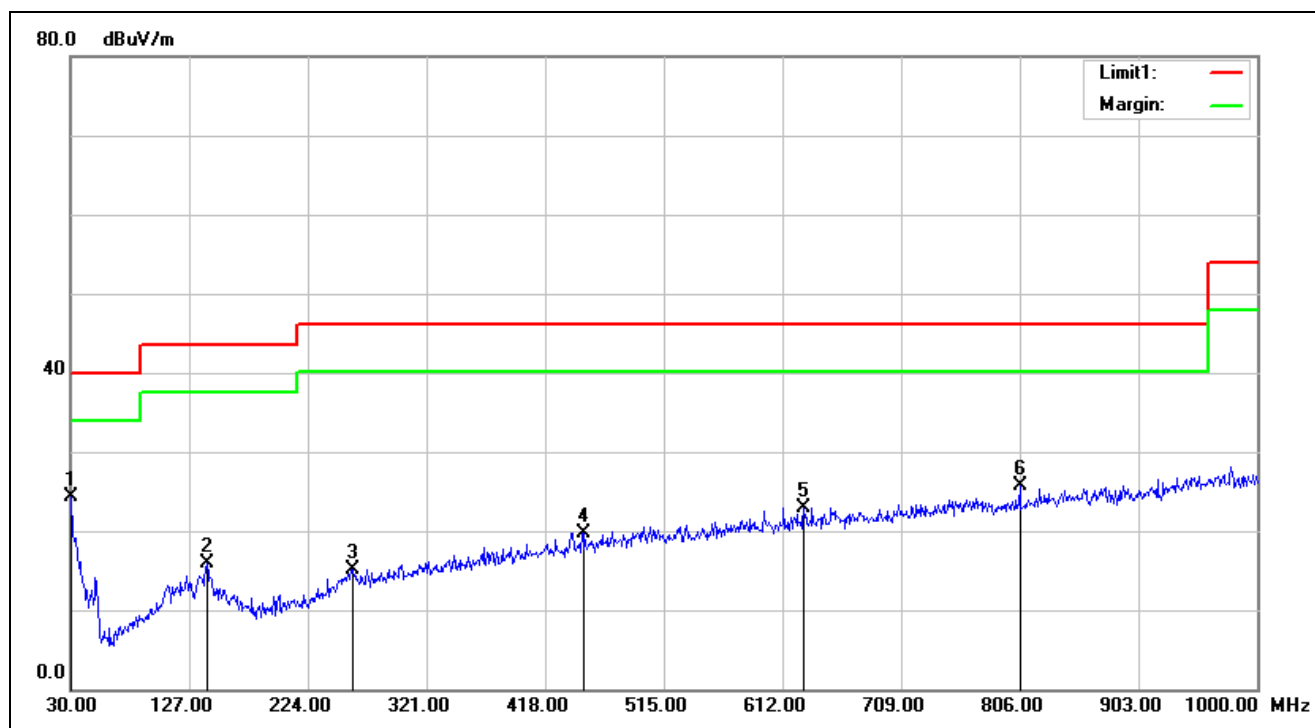
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Service No.:	114038311-NCC	Test Distance:	3m
Test Standard:	FCC 15.209_30M-40G_3m	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/7/21 22:22:03
Applicant:	Wacom	Test Rating:	DC 3V
Product:	HP Active Pen	Temp.(°C)/Hum.(%)	24.5(°C)/51%
Model No.:	HSTNN-W01P	Test Engineer:	Hugo Chang
Test Mode:	TX		
Remark:	1.8MHz		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.0000	-6.03	27.13	21.10	40.00	-18.90	peak	100	307	
2	150.2800	-13.10	26.78	13.68	43.52	-29.84	peak	100	43	
3	289.9599	-10.64	26.11	15.47	46.02	-30.55	peak	100	187	
4	537.3099	-6.89	28.06	21.17	46.02	-24.85	peak	100	115	
5	775.9299	-3.49	28.28	24.79	46.02	-21.23	peak	100	14	
6	864.2000	-2.21	28.60	26.39	46.02	-19.63	peak	100	253	

Spurious Emissions, TX Mode, 30M-1G



Service No.:	114038311-NCC	Test Distance:	3m
Test Standard:	FCC 15.209_30M-40G_3m	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/7/21 22:23:06
Applicant:	Wacom	Test Rating:	DC 3V
Product:	HP Active Pen	Temp.(°C)/Hum.(%):	24.5(°C)/51%
Model No.:	HSTNN-W01P	Test Engineer:	Hugo Chang
Test Mode:	TX		
Remark:	1.8MHz		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.9699	-6.59	30.83	24.24	40.00	-15.76	peak	100	243	
2	141.5500	-12.80	28.73	15.93	43.52	-27.59	peak	100	89	
3	260.8599	-10.91	26.10	15.19	46.02	-30.83	peak	100	293	
4	450.0099	-7.90	27.68	19.78	46.02	-26.24	peak	100	330	
5	629.4600	-5.59	28.42	22.83	46.02	-23.19	peak	100	243	
6	806.0000	-3.18	28.98	25.80	46.02	-20.22	peak	100	147	

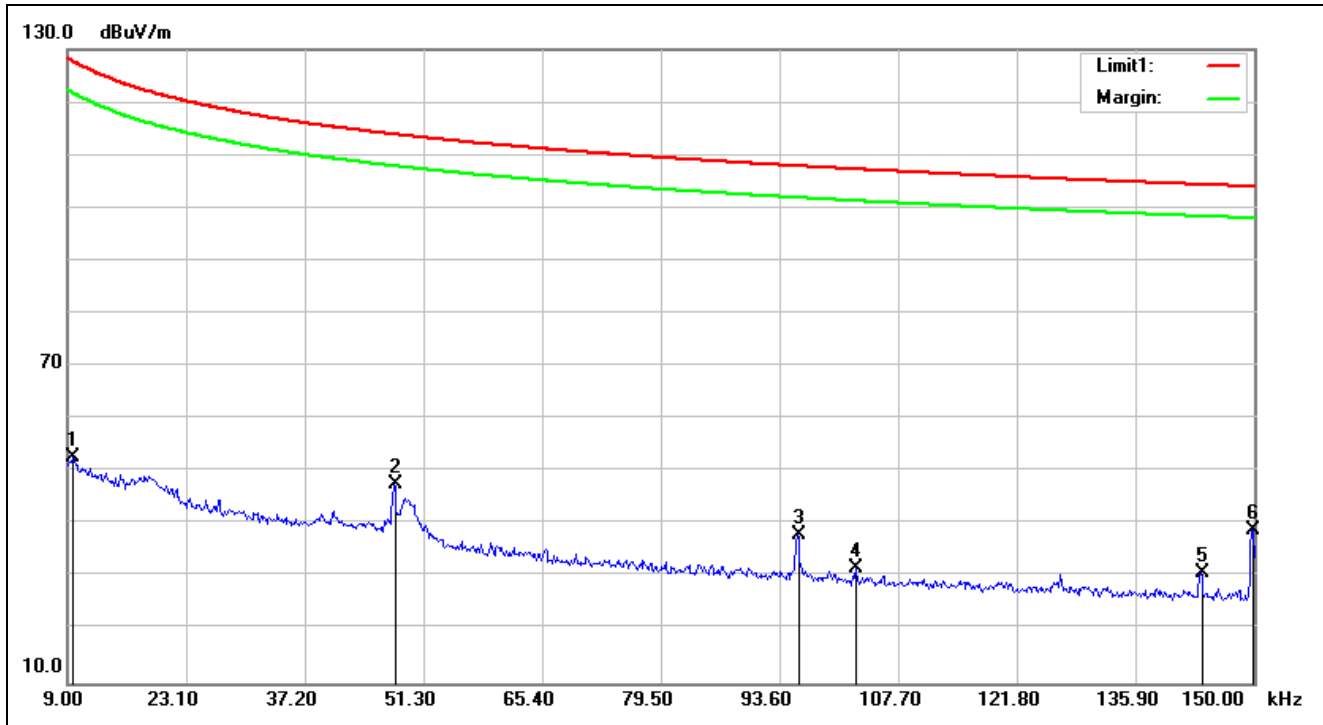
Spurious Emissions, RX Mode, 9k-30M



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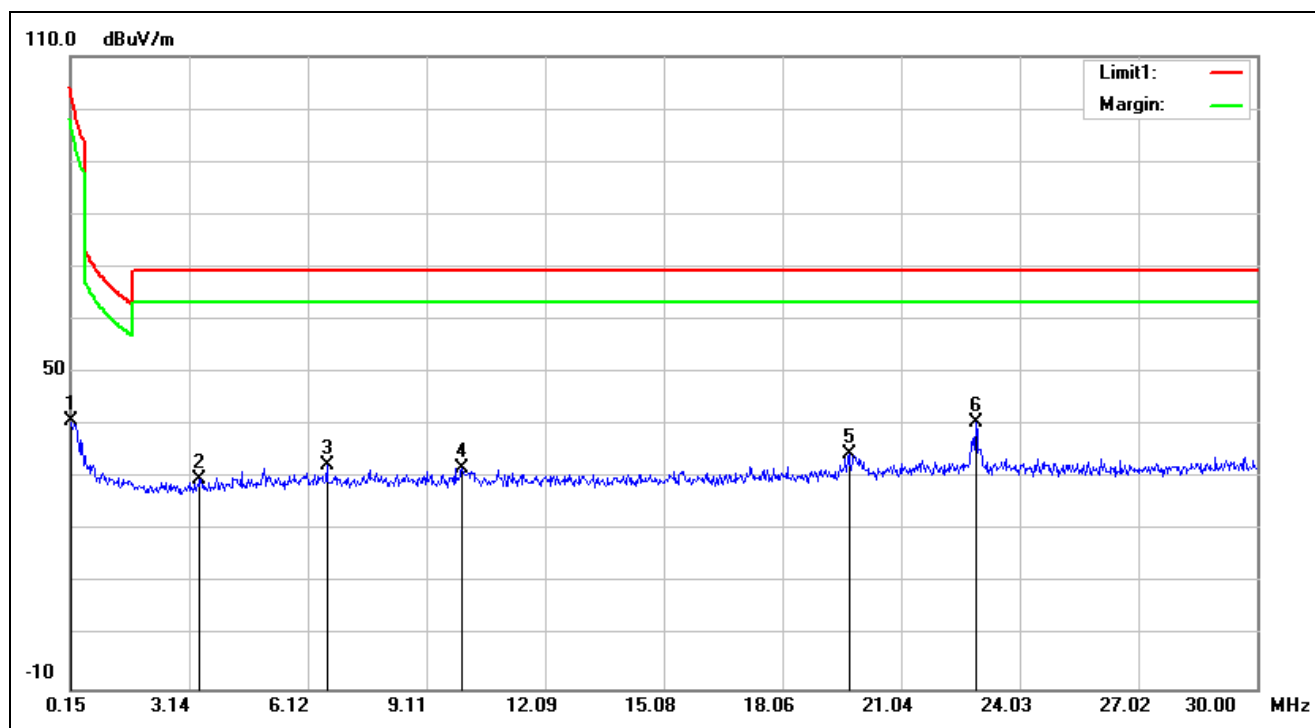
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Service No.:	114038311-NCC	Test Distance:	3m
Test Standard:	NCC2.8_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2015/7/22 15:56:47
Applicant:	Wacom	Test Rating:	DC 3V
Product:	HP Active Pen	Temp.(°C)/Hum.(%):	23.9(°C)/53%
Model No.:	HSTNN-W01P	Test Engineer:	Hugo Chang
Test Mode:	RX		
Remark:	1.8MHz		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.0096	20.33	32.55	52.88	127.75	-74.87	QP		0	
2	0.0478	19.71	27.94	47.65	113.89	-66.24	QP		0	
3	0.0957	19.27	18.82	38.09	107.90	-69.81	QP		0	
4	0.1026	19.24	12.56	31.80	107.30	-75.50	QP		0	
5	0.1437	19.25	11.65	30.90	104.39	-73.49	QP		0	
6	0.1497	19.25	19.69	38.94	104.03	-65.09	QP		0	

Spurious Emissions, RX Mode, 1-10G



Service No.:	114038311-NCC	Test Distance:	3m
Test Standard:	NCC2.8_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2015/7/22 15:58:06
Applicant:	Wacom	Test Rating:	DC 3V
Product:	HP Active Pen	Temp.(°C)/Hum.(%)	23.9(°C)/53%
Model No.:	HSTNN-W01P	Test Engineer:	Hugo Chang
Test Mode:	RX		
Remark:	1.8MHz		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.1500	19.25	21.45	40.70	104.02	-63.32	QP			
2	3.4036	19.19	10.66	29.85	69.50	-39.65	QP			
3	6.5976	19.96	12.41	32.37	69.50	-37.13	QP			
4	10.0004	20.49	11.48	31.97	69.50	-37.53	QP			
5	19.7316	21.72	12.71	34.43	69.50	-35.07	QP			
6	22.9255	21.91	18.65	40.56	69.50	-28.94	QP			

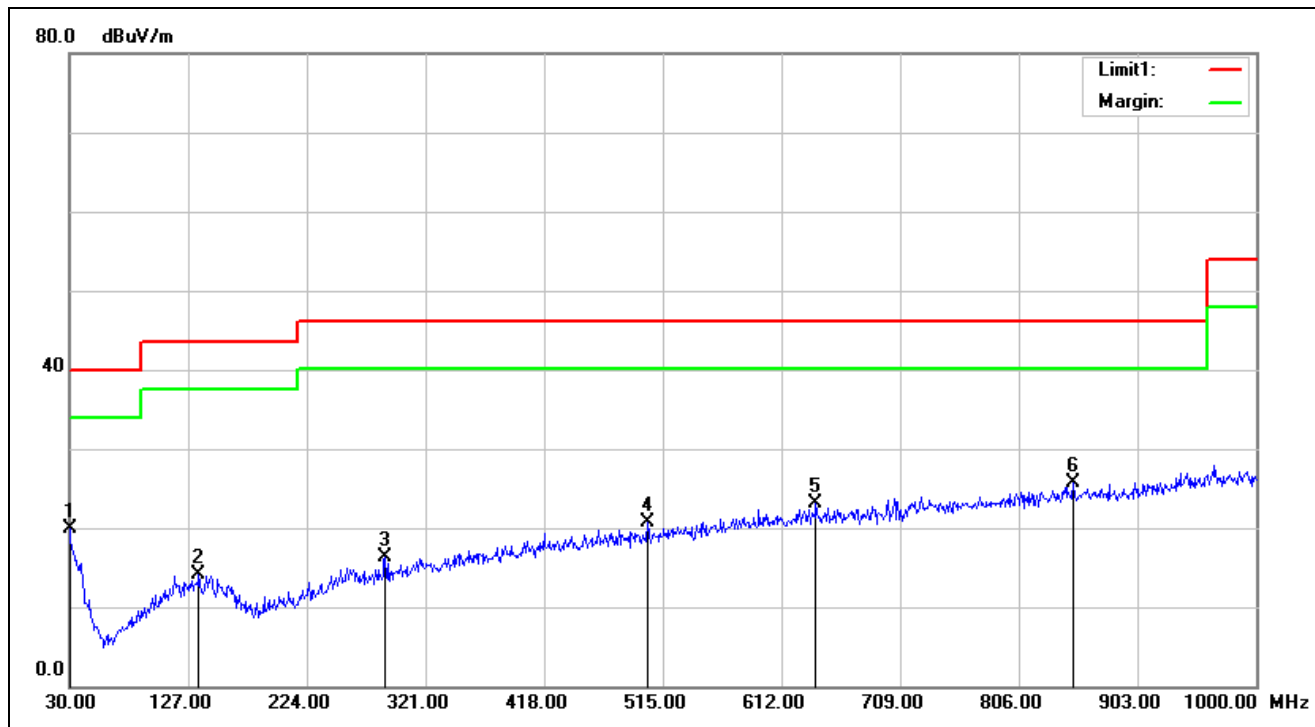
Spurious Emissions, RX Mode, 30M-1G



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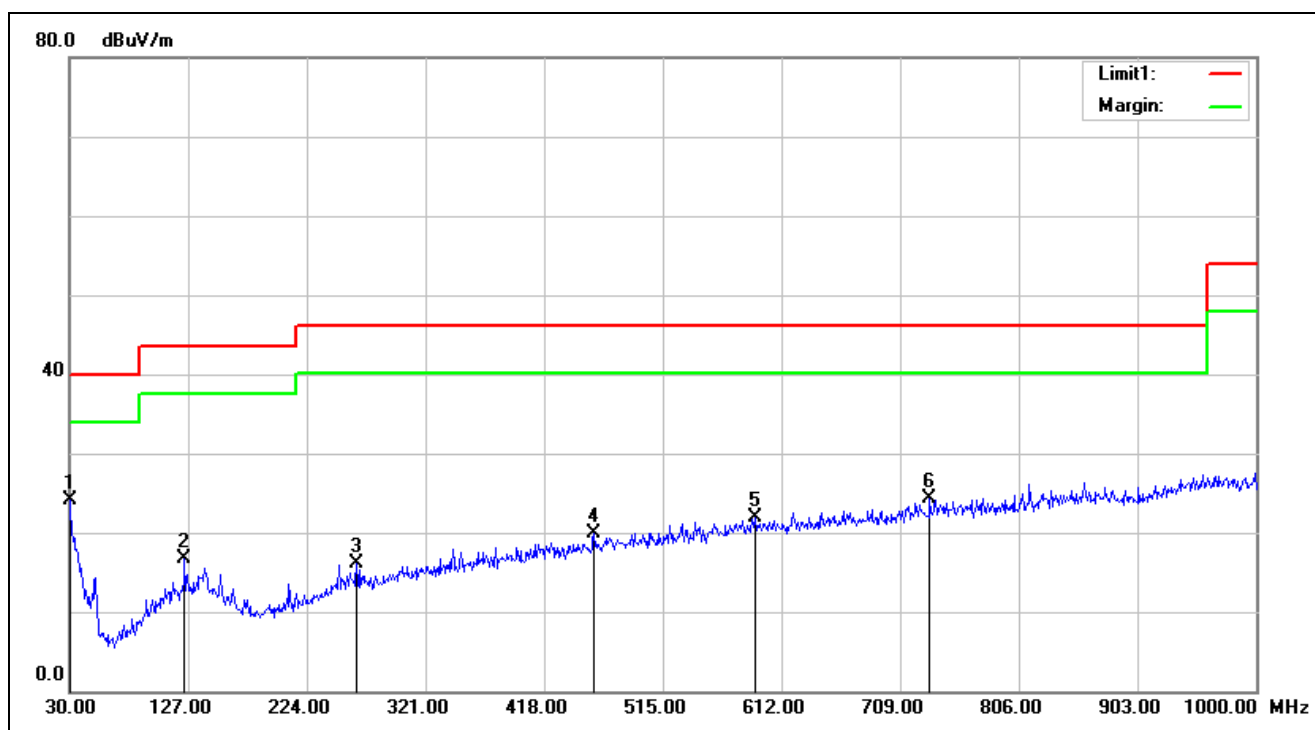
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Service No.:	114038311-NCC	Test Distance:	3m
Test Standard:	FCC 15.209_30M-40G_3m	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/7/21 22:25:41
Applicant:	Wacom	Test Rating:	DC 3V
Product:	HP Active Pen	Temp.(°C)/Hum.(%)	24.5(°C)/51%
Model No.:	HSTNN-W01P	Test Engineer:	Hugo Chang
Test Mode:	RX		
Remark:	1.8MHz		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.0000	-6.03	26.02	19.99	40.00	-20.01	QP	100	315	
2	135.7298	-12.74	26.92	14.18	43.52	-29.34	QP	100	123	
3	288.0199	-10.71	27.09	16.38	46.02	-29.64	QP	100	232	
4	502.3899	-7.23	27.94	20.71	46.02	-25.31	QP	100	139	
5	640.1299	-5.48	28.49	23.01	46.02	-23.01	QP	100	126	
6	850.6200	-2.24	27.87	25.63	46.02	-20.39	QP	100	354	

Spurious Emissions, RX Mode, 30M-1G



Service No.:	114038311-NCC	Test Distance:	3m
Test Standard:	FCC 15.209_30M-40G_3m	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/7/21 22:26:44
Applicant:	Wacom	Test Rating:	DC 3V
Product:	HP Active Pen	Temp.(°C)/Hum.(%)	24.5(°C)/51%
Model No.:	HSTNN-W01P	Test Engineer:	Hugo Chang
Test Mode:	RX		
Remark:	1.8MHz		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.0000	-6.03	30.18	24.15	40.00	-15.85	QP	100	146	
2	124.0900	-12.87	29.60	16.73	43.52	-26.79	QP	100	27	
3	264.7400	-11.05	27.09	16.04	46.02	-29.98	QP	100	279	
4	458.7400	-7.79	27.73	19.94	46.02	-26.08	QP	100	240	
5	590.6599	-6.04	27.97	21.93	46.02	-24.09	QP	100	83	
6	733.2500	-4.10	28.41	24.31	46.02	-21.71	QP	100	199	