

Test Report No.50201690 001

Appendix D: Radiated Spurious Emission Data

(File: 50201690AppendixD)

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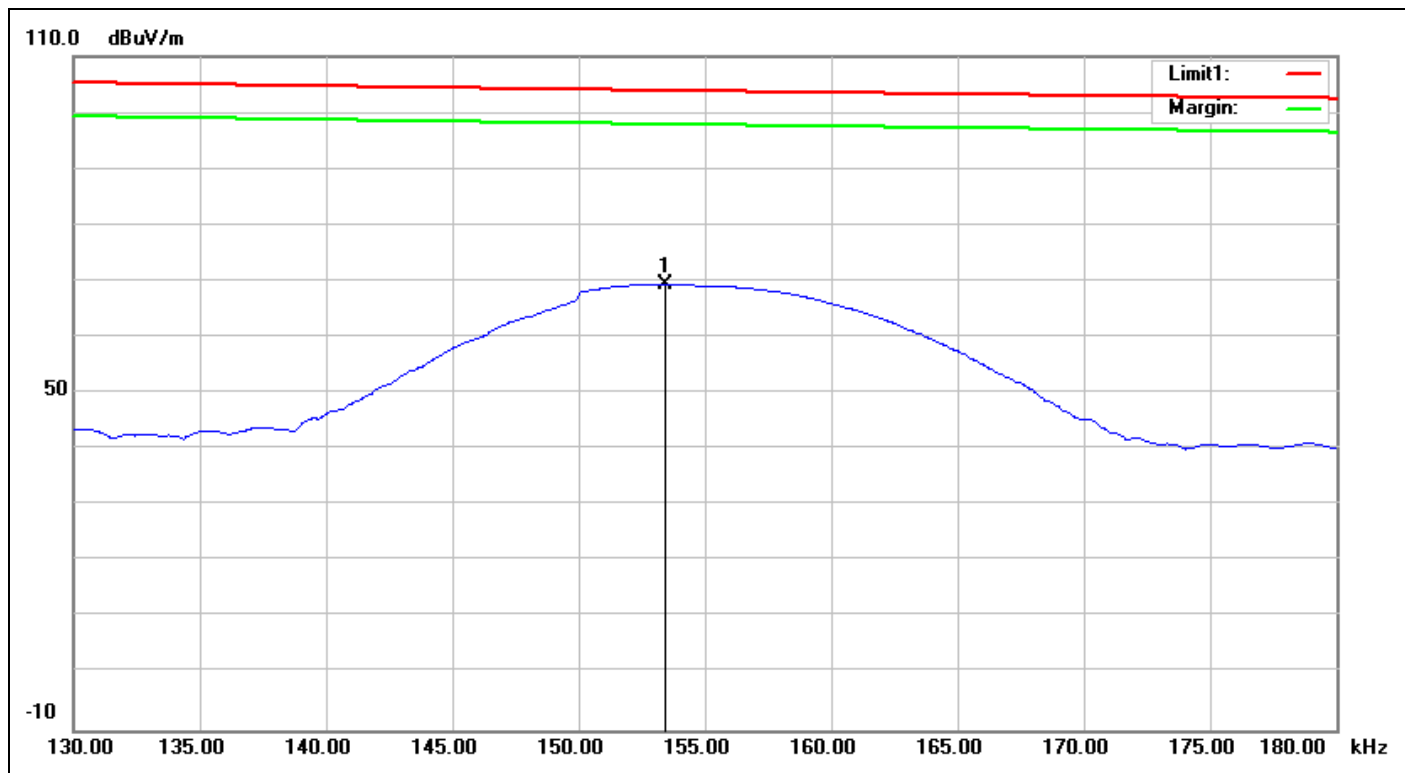
Spurious Emissions, Fundamental



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Service No.:	114082658	Test Distance:	3m
Test Standard:	NCC2.8_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2018/11/19 18:42:08
Applicant:	嘉偉利股份有限公司	Test Rating:	AC 110V/60Hz
Product:	Bluetooth Speaker with alarm clock and wireless charging function	Temp.(°C)/Hum.(%):	20(°C)/55%
Model No.:	HS1-qi	Test Engineer:	Curry Chen
Test Mode:	TX+RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.1534	18.36	51.04	69.40	103.88	-34.48	QP	100	348	

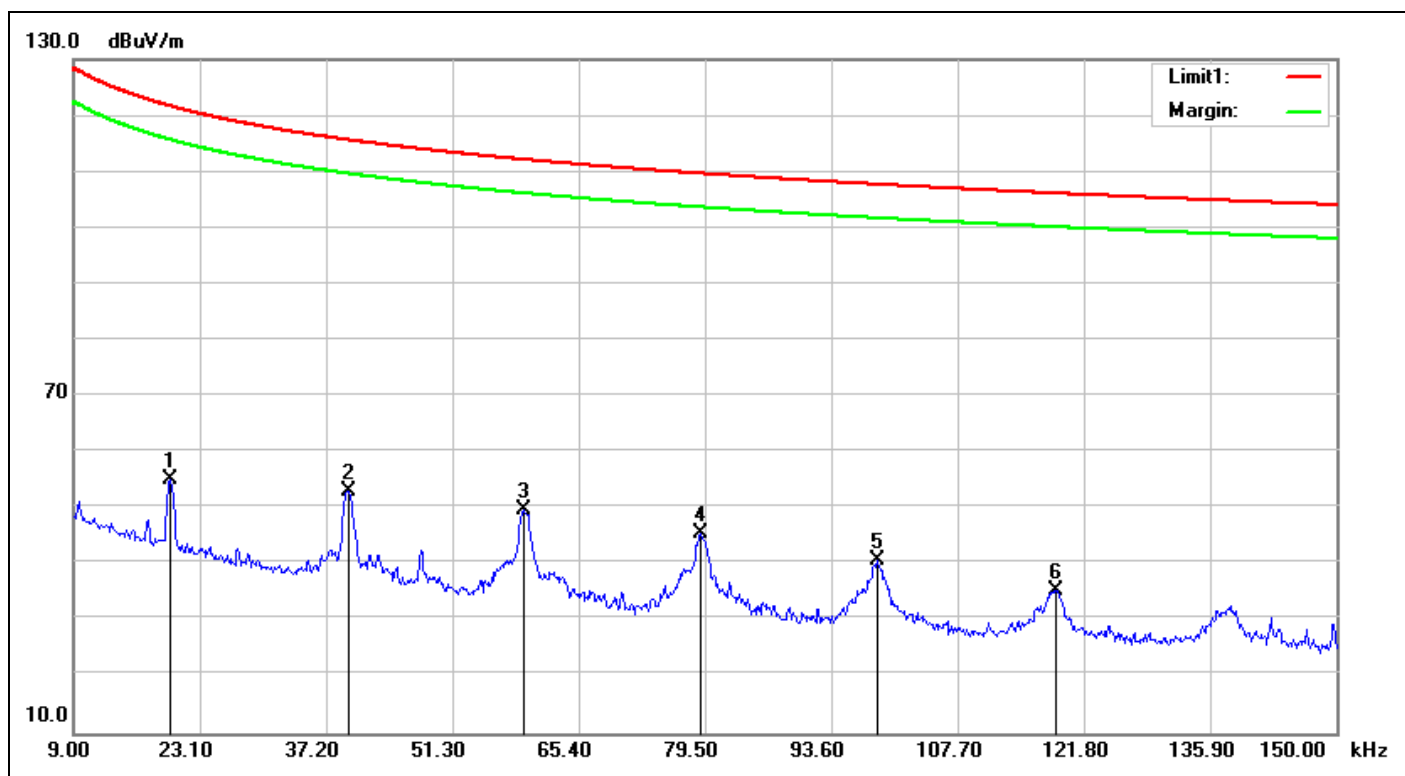
Spurious Emissions, TX Mode, 9kHz – 30MHz



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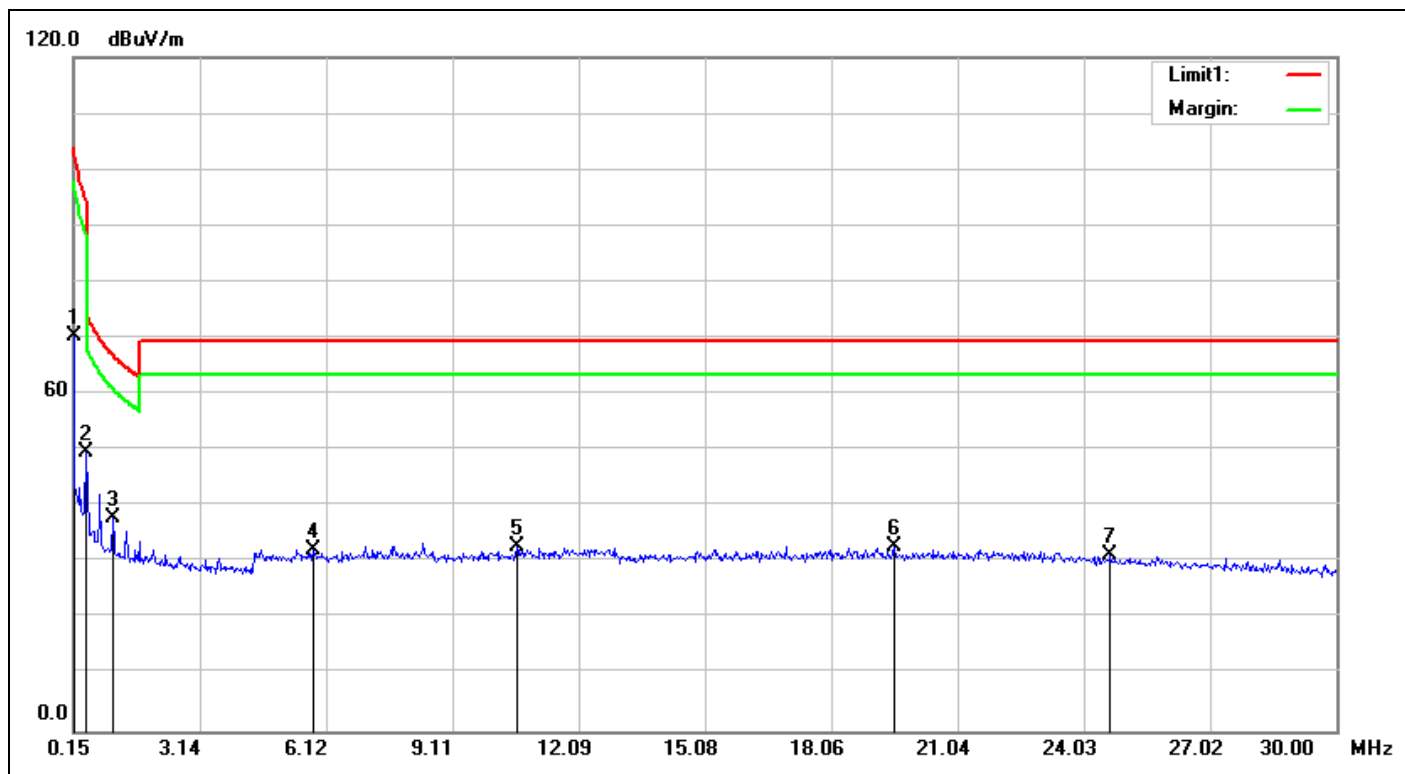
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Service No.:	114082658	Test Distance:	3m
Test Standard:	NCC2.8_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2018/11/1 20:22:14
Applicant:	嘉偉利股份有限公司	Test Rating:	AC 110V/60Hz
Product:	Bluetooth Speaker with alarm clock and wireless charging function	Temp.(°C)/Hum.(%)	23(°C)/55%
Model No.:	HS1-qi	Test Engineer:	Kevin Kuo
Test Mode:	TX+RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.0197	18.91	36.22	55.13	121.70	-66.57	QP	100	62	
2	0.0397	19.13	34.02	53.15	115.62	-62.47	QP	100	110	
3	0.0592	18.81	30.84	49.65	112.15	-62.50	QP	100	272	
4	0.0789	18.57	26.92	45.49	109.65	-64.16	QP	100	301	
5	0.0987	18.35	22.40	40.75	107.71	-66.96	QP	100	93	
6	0.1187	18.34	17.10	35.44	106.11	-70.67	QP	100	93	



Service No.:	114082658	Test Distance:	3m
Test Standard:	NCC2.8_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2018/11/1 20:24:15
Applicant:	嘉偉利股份有限公司	Test Rating:	AC 110V/60Hz
Product:	Bluetooth Speaker with alarm clock and wireless charging function	Temp.(°C)/Hum.(%)	23(°C)/55%
Model No.:	HS1-qi	Test Engineer:	Kevin Kuo
Test Mode:	TX+RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.1500	18.36	52.08	70.44	104.08	-33.64	peak	100	244	Fundamental
2	0.4485	18.60	31.12	49.72	94.57	-44.85	peak	100	36	
3	1.0754	18.67	19.15	37.82	66.99	-29.17	peak	100	108	
4	5.8215	19.63	12.70	32.33	69.50	-37.17	peak	100	27	
5	10.6274	20.51	12.24	32.75	69.50	-36.75	peak	100	30	
6	19.5525	21.55	11.36	32.91	69.50	-36.59	peak	100	225	
7	24.6569	21.78	9.51	31.29	69.50	-38.21	peak	100	13	

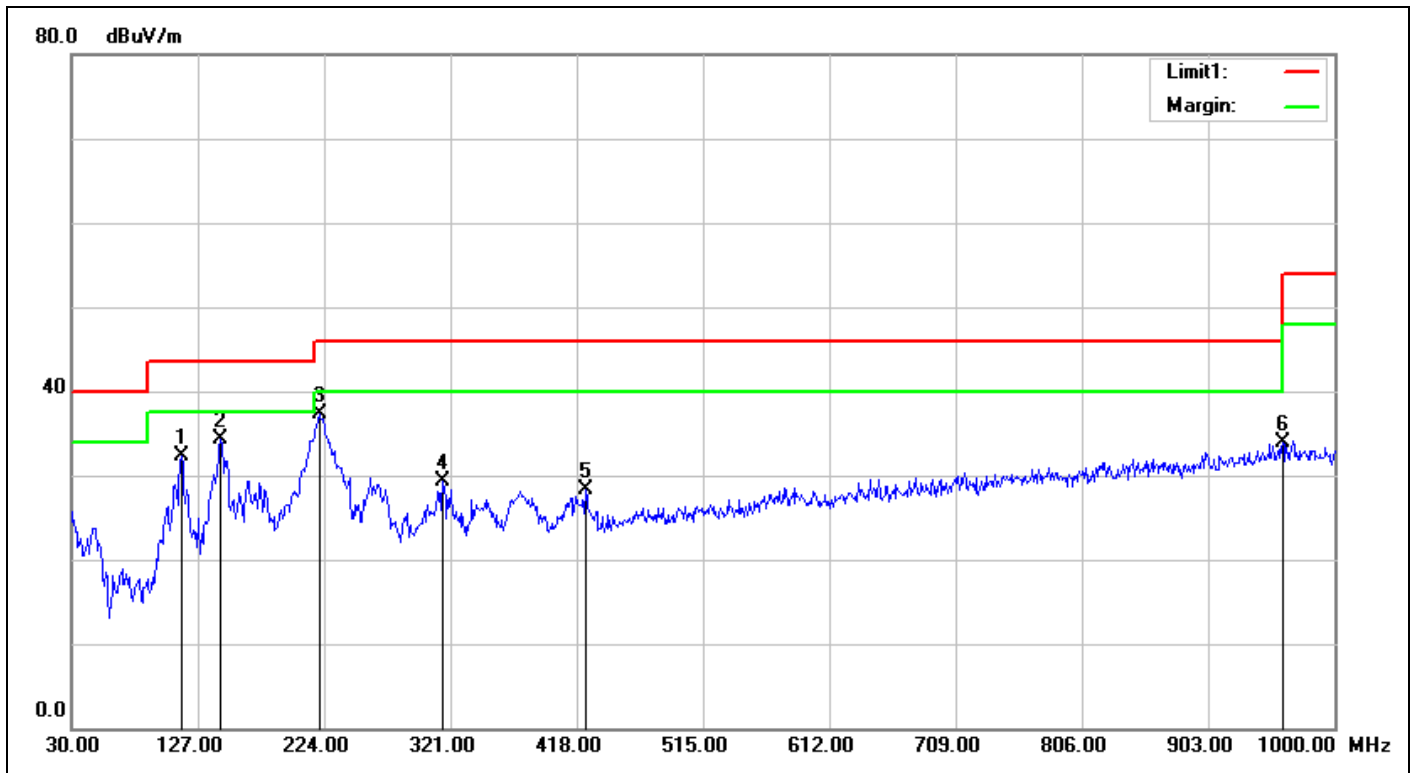
Spurious Emissions, TX Mode, 30MHz - 1GHz



TUV Rheinland Taiwan Ltd.

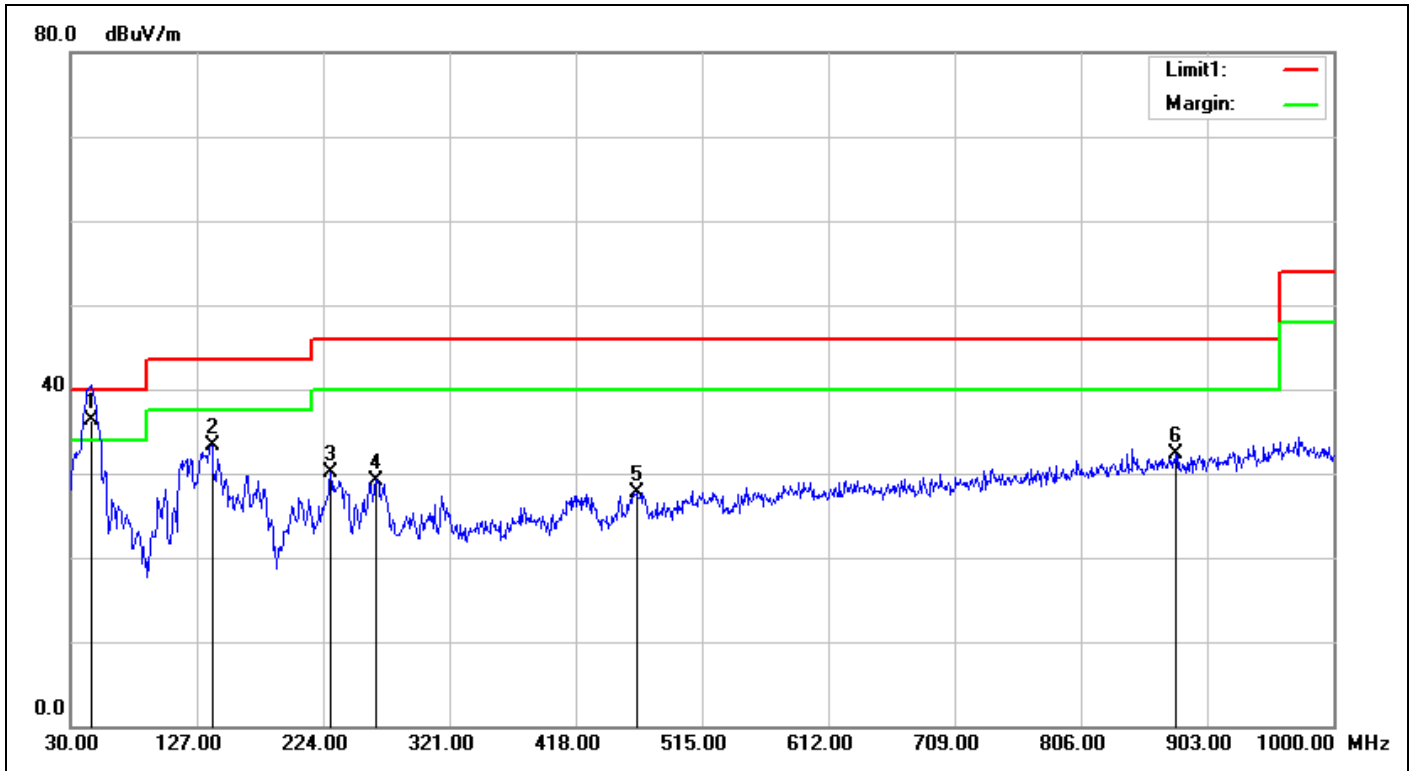
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Service No.:	114082658	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/11/1 20:10:38
Applicant:	嘉偉利股份有限公司	Test Rating:	AC 110V/60Hz
Product:	Bluetooth Speaker with alarm clock and wireless charging function	Temp.(°C)/Hum.(%):	23(°C)/55%
Model No.:	HS1-qi	Test Engineer:	Kevin Kuo
Test Mode:	TX+RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	114.3900	-7.76	40.15	32.39	43.50	-11.11	QP	100	272	
2	144.4600	-7.06	41.28	34.22	43.50	-9.28	QP	100	104	
3	220.1200	-8.23	45.52	37.29	46.00	-8.71	QP	100	258	
4	315.1800	-4.44	33.70	29.26	46.00	-16.74	QP	100	312	
5	424.7900	-2.03	30.29	28.26	46.00	-17.74	QP	100	272	
6	960.2300	5.94	27.91	33.85	54.00	-20.15	QP	100	56	



Service No.:	114082658	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/11/1 20:11:41
Applicant:	嘉偉利股份有限公司	Test Rating:	AC 110V/60Hz
Product:	Bluetooth Speaker with alarm clock and wireless charging function	Temp.(°C)/Hum.(%)	23(°C)/55%
Model No.:	HS1-qi	Test Engineer:	Kevin Kuo
Test Mode:	TX+RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	45.5200	-8.85	45.25	36.40	40.00	-3.60	QP	100	0	
2	138.6400	-6.97	40.33	33.36	43.50	-10.14	QP	100	101	
3	229.8200	-7.60	37.80	30.20	46.00	-15.80	QP	100	101	
4	264.7400	-5.10	34.30	29.20	46.00	-16.80	QP	100	136	
5	464.5600	-1.75	29.54	27.79	46.00	-18.21	QP	100	264	
6	878.7500	4.08	28.31	32.39	46.00	-13.61	QP	100	224	

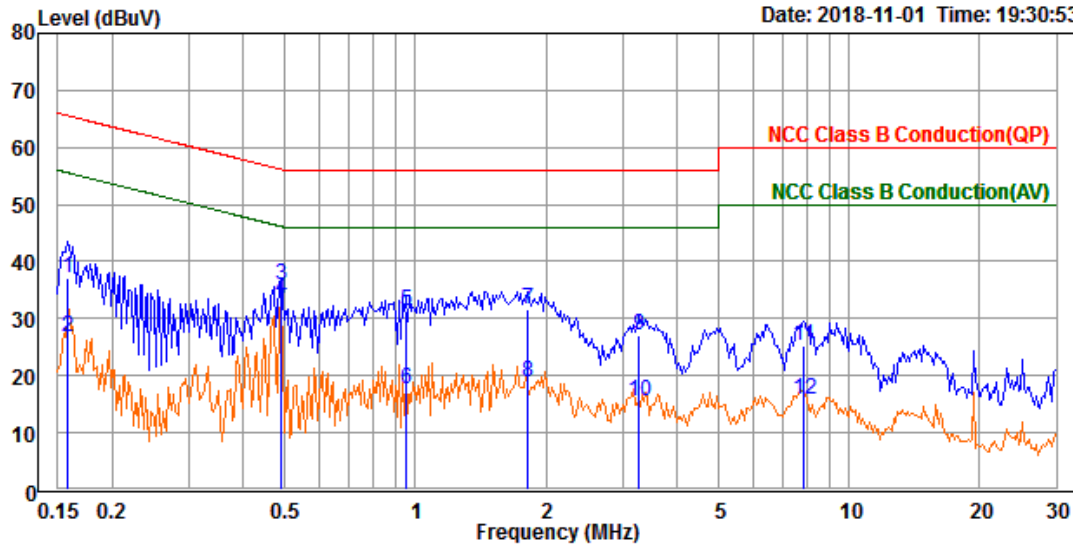
Spurious Emissions, AC Mains



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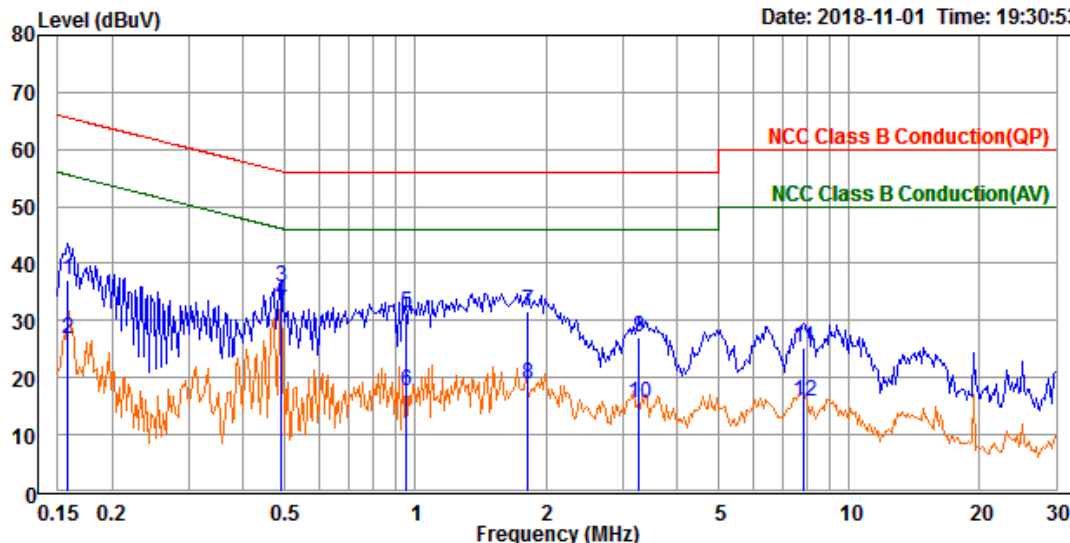
Trace: 1

Site : Conduction room
Condition : NCC Class B Conduction(QP) line1
Test Engineer: Kevin Kuo
Applicant :
Product : Bluetooth Speaker with alarm clock and
Product : wireless charging function
Model No. : HS1-qi
Test Rating : 110Vac/60Hz
Tmp/Hum : 21.8°C / 51%
Memo : AC Mains

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.158	27.41	9.68	37.09	65.59	-28.50	QP
2	0.158	17.21	9.68	26.89	55.59	-28.70	Average
3	0.490	26.26	9.69	35.95	56.17	-20.22	QP
4	0.490	23.76	9.69	33.45	46.17	-12.72	Average
5	0.953	21.50	9.70	31.20	56.00	-24.80	QP
6	0.953	7.90	9.70	17.60	46.00	-28.40	Average
7	1.818	21.94	9.72	31.66	56.00	-24.34	QP
8	1.818	9.00	9.72	18.72	46.00	-27.28	Average
9	3.269	17.47	9.74	27.21	56.00	-28.79	QP
10	3.269	5.89	9.74	15.63	46.00	-30.37	Average
11	7.840	15.57	9.81	25.38	60.00	-34.62	QP
12	7.840	5.92	9.81	15.73	50.00	-34.27	Average

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Trace: 1

Site : Conduction room
Condition : NCC Class B Conduction(QP) line1
Test Engineer: Kevin Kuo
Applicant :
Product : Bluetooth Speaker with alarm clock and
Product : wireless charging function
Model No. : HS1-qi
Test Rating : 110Vac/60Hz
Tmp/Hum : 21.8°C / 51%
Memo : AC Mains

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.158	27.41	9.68	37.09	65.59	-28.50	QP
2	0.158	17.21	9.68	26.89	55.59	-28.70	Average
3	0.490	26.26	9.69	35.95	56.17	-20.22	QP
4	0.490	23.76	9.69	33.45	46.17	-12.72	Average
5	0.953	21.50	9.70	31.20	56.00	-24.80	QP
6	0.953	7.90	9.70	17.60	46.00	-28.40	Average
7	1.818	21.94	9.72	31.66	56.00	-24.34	QP
8	1.818	9.00	9.72	18.72	46.00	-27.28	Average
9	3.269	17.47	9.74	27.21	56.00	-28.79	QP
10	3.269	5.89	9.74	15.63	46.00	-30.37	Average
11	7.840	15.57	9.81	25.38	60.00	-34.62	QP
12	7.840	5.92	9.81	15.73	50.00	-34.27	Average