

## FCC Test Report

**Report No.:** RFBEBU-WTW-P20100580

**FCC ID:** E8HTPA-C001P

**Test Model:** TPA-C001P

**Received Date:** Oct. 26, 2020

**Test Date:** Nov. 9 to 16, 2020

**Issued Date:** Nov. 19, 2020

**Applicant:** Chicony Electronics Co., Ltd.

**Address:** No.69, Sec. 2, Guangfu Rd., Sanchong Dist., New Taipei City 241,  
Taiwan(R.O.C.)

**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
Lin Kou Laboratories

**Lab Address:** No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

**FCC Registration /  
Designation Number:** 198487 / TW2021



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### Release Control Record

Issue No.	Description	Date Issued
RFBEBU-WTW-P20100580	Original release	Nov. 19, 2020

## 1 Certificate of Conformity

**Product:** HP USI Garaged Pen

**Brand:** hp

**Test Model:** TPA-C001P

**Sample Status:** Engineering sample

**Applicant:** Chicony Electronics Co., Ltd.

**Test Date:** Nov. 9 to 16, 2020

**Standards:** 47 CFR FCC Part 15, Subpart C (Section 15.209)  
ANSI C63.10: 2013

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

**Prepared by :** Annie Chang, **Date:** Nov. 19, 2020  
Annie Chang / Senior Specialist

**Approved by :** Rex Lai, **Date:** Nov. 19, 2020  
Rex Lai / Associate Technical Manager

## 2 Summary of Test Results

47 CFR FCC Part 15, Subpart C (Section 15.209)			
FCC Clause	Test Item	Result	Remarks
15.207	AC Power Conducted Emission	N/A	Power supply is 2.7Vdc from Supercap.
15.209	Radiated Emission Test	Pass	Meet the requirement of limit. Minimum passing margin is -10.69 dB at 40.91 MHz

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty

### 2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Expanded Uncertainty (k=2) ( $\pm$ )
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	2.61 dB
	30MHz ~ 1GHz	5.43 dB

### 2.2 Modification Record

There were no modifications required for compliance.

### 3 General Information

#### 3.1 General Description of EUT

Product	HP USI Garaged Pen
Brand	hp
Test Model	TPA-C001P
Sample Status	Engineering sample
Power Supply Rating	2.7Vdc from Supercap or 5Vdc from host equipment
Modulation Type	PSK
Operating Frequency	111-494kHz
Number of Channel	384
Antenna Type	Loop antenna
Field Strength	-46.58dBuV/m @300m
Accessory Device	N/A
Data Cable Supplied	N/A

Note:

1. The EUT uses following Supercap.

Manufacturer	KORCHIP
Model	SR2R7205
Rating	2.7Vdc

2. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.
3. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

### 3.2 Description of Test Modes

384 channels are provided for EUT:

Channel	Freq. (kHz)	Channel	Freq. (kHz)	Channel	Freq. (kHz)	Channel	Freq. (kHz)	Channel	Freq. (kHz)
1	111	51	161	101	211	151	261	201	311
2	112	52	162	102	212	152	262	202	312
3	113	53	163	103	213	153	263	203	313
4	114	54	164	104	214	154	264	204	314
5	115	55	165	105	215	155	265	205	315
6	116	56	166	106	216	156	266	206	316
7	117	57	167	107	217	157	267	207	317
8	118	58	168	108	218	158	268	208	318
9	119	59	169	109	219	159	269	209	319
10	120	60	170	110	220	160	270	210	320
11	121	61	171	111	221	161	271	211	321
12	122	62	172	112	222	162	272	212	322
13	123	63	173	113	223	163	273	213	323
14	124	64	174	114	224	164	274	214	324
15	125	65	175	115	225	165	275	215	325
16	126	66	176	116	226	166	276	216	326
17	127	67	177	117	227	167	277	217	327
18	128	68	178	118	228	168	278	218	328
19	129	69	179	119	229	169	279	219	329
20	130	70	180	120	230	170	280	220	330
21	131	71	181	121	231	171	281	221	331
22	132	72	182	122	232	172	282	222	332
23	133	73	183	123	233	173	283	223	333
24	134	74	184	124	234	174	284	224	334
25	135	75	185	125	235	175	285	225	335
26	136	76	186	126	236	176	286	226	336
27	137	77	187	127	237	177	287	227	337
28	138	78	188	128	238	178	288	228	338
29	139	79	189	129	239	179	289	229	339
30	140	80	190	130	240	180	290	230	340
31	141	81	191	131	241	181	291	231	341
32	142	82	192	132	242	182	292	232	342
33	143	83	193	133	243	183	293	233	343
34	144	84	194	134	244	184	294	234	344
35	145	85	195	135	245	185	295	235	345
36	146	86	196	136	246	186	296	236	346
37	147	87	197	137	247	187	297	237	347
38	148	88	198	138	248	188	298	238	348
39	149	89	199	139	249	189	299	239	349
40	150	90	200	140	250	190	300	240	350
41	151	91	201	141	251	191	301	241	351
42	152	92	202	142	252	192	302	242	352
43	153	93	203	143	253	193	303	243	353
44	154	94	204	144	254	194	304	244	354
45	155	95	205	145	255	195	305	245	355
46	156	96	206	146	256	196	306	246	356
47	157	97	207	147	257	197	307	247	357
48	158	98	208	148	258	198	308	248	358
49	159	99	209	149	259	199	309	249	359
50	160	100	210	150	260	200	310	250	360

Channel	Freq. (kHz)	Channel	Freq. (kHz)	Channel	Freq. (kHz)	Channel	Freq. (kHz)	Channel	Freq. (kHz)
251	361	281	391	311	421	341	451	371	481
252	362	282	392	312	422	342	452	372	482
253	363	283	393	313	423	343	453	373	483
254	364	284	394	314	424	344	454	374	484
255	365	285	395	315	425	345	455	375	485
256	366	286	396	316	426	346	456	376	486
257	367	287	397	317	427	347	457	377	487
258	368	288	398	318	428	348	458	378	488
259	369	289	399	319	429	349	459	379	489
260	370	290	400	320	430	350	460	380	490
261	371	291	401	321	431	351	461	381	491
262	372	292	402	322	432	352	462	382	492
263	373	293	403	323	433	353	463	383	493
264	374	294	404	324	434	354	464	384	494
265	375	295	405	325	435	355	465		
266	376	296	406	326	436	356	466		
267	377	297	407	327	437	357	467		
268	378	298	408	328	438	358	468		
269	379	299	409	329	439	359	469		
270	380	300	410	330	440	360	470		
271	381	301	411	331	441	361	471		
272	382	302	412	332	442	362	472		
273	383	303	413	333	443	363	473		
274	384	304	414	334	444	364	474		
275	385	305	415	335	445	365	475		
276	386	306	416	336	446	366	476		
277	387	307	417	337	447	367	477		
278	388	308	418	338	448	368	478		
279	389	309	419	339	449	369	479		
280	390	310	420	340	450	370	480		



### 3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable To		Description
	RE<1G	PLC	
-	√	Note 1	-

Where **RE<1G**: Radiated Emission below 1GHz **PLC**: Power Line Conducted Emission

**NOTE:**

1. No need to concern of Conducted Emission due to the EUT is powered by Supercap.
2. The EUT had been pre-tested on the positioned of each 2 axis (X.Z). The worst case was found when positioned on **Z-plane**

**Radiated Emission Test (Below 1GHz):**

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Operating Frequency (kHz)	Tested Frequency (kHz)	Modulation Type
-	111-494	333	PSK

**Test Condition:**

Applicable To	Environmental Conditions	Input Power	Tested by
RE<1G	25 deg. C, 76% RH	2.7Vdc	Ian Chang

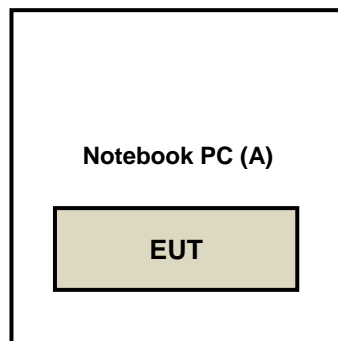
### 3.3 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Notebook PC	HP	HP Notebook	N/A	N/A	Supplied by client

Note: All power cords of the above support units are non-shielded (1.8m).

#### 3.3.1 Configuration of System under Test



### 3.4 General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

#### **FCC Part 15, Subpart C (15.209)**

ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

## 4 Test Types and Results

### 4.1 Radiated Emission and Bandedge Measurement

#### 4.1.1 Limits of Radiated Emission and Bandedge Measurement

##### For Frequency Below 30MHz

Frequency (MHz)	Field Strength (dBuV/m)		Measurement Distance (meters)
	uV/m	dBuV/m	
0.009 – 0.490	2400 / F (kHz)	48.52-13.80	300
0.490 – 1.705	24000 / F (kHz)	33.80-22.97	30
1.705 – 30.0	30	29.54	30

##### For Frequency Between 30-1000MHz

Frequency (MHz)	Class A (at 10m)		Class B (at 3m)	
	uV/m	dBuV/m	uV/m	dBuV/m
30-88	90	39.1	100	40.0
88-216	150	43.5	150	43.5
216-960	210	46.4	200	46.0
Above 960	300	49.5	500	54.0

#### 4.1.2 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
HP Preamplifier	8447D	2432A03504	Feb. 19, 2020	Feb. 18, 2021
HP Preamplifier	8449B	3008A01201	Feb. 20, 2020	Feb. 19, 2021
MITEQ Preamplifier	AMF-6F-260400-33-8P	892164	Feb. 19, 2020	Feb. 18, 2021
Agilent TEST RECEIVER	N9038A	MY51210129	Mar. 18, 2020	Mar. 17, 2021
Schwarzbeck Antenna	VULB 9168	139	Nov. 6, 2020	Nov. 5, 2021
Schwarzbeck Antenna	VHBA 9123	480	Jun. 3, 2019	Jun. 2, 2021
Schwarzbeck Horn Antenna	BBHA-9170	212	Nov. 24, 2019	Nov. 23, 2020
Schwarzbeck Horn Antenna	BBHA 9120-D1	D130	Nov. 24, 2019	Nov. 23, 2020
ADT. Turn Table	TT100	0306	NA	NA
ADT. Tower	AT100	0306	NA	NA
Software	Radiated_V7.6.15.9.5	NA	NA	NA
SUHNER RF cable With 4dB PAD	SF102	Cable-CH6-01	Jul. 9, 2020	Jul. 8, 2021
EMEC RF cable With 3/4dB PAD	EM102-KMKM	01	Aug. 21, 2020	Aug. 20, 2021
KEYSIGHT MIMO Powermeasurement Test set	U2021XA	U2021XA-001	Jun. 16, 2020	Jun. 15, 2021
KEYSIGHT Spectrum Analyzer	N9030A	MY54490260	Jul. 22, 2020	Jul. 21, 2021
Loop Antenna EMCI	LPA600	270	Aug. 23, 2019	Aug. 22, 2021
EMCO Horn Antenna	3115	00028257	Nov. 24, 2019	Nov. 23, 2020
Highpass filter Wainwright Instruments	WHK 3.1/18G-10SS	SN 8	NA	NA
ROHDE & SCHWARZ Spectrum Analyzer	FSV40	101042	Sep. 8, 2020	Sep. 7, 2021

- NOTE:**
1. The calibration interval of the above test instruments is 12/24 months. And the calibrations are traceable to NML/ROC and NIST/USA.
  2. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
  3. The test was performed in Chamber No. 6.

### 4.1.3 Test Procedures

#### For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

#### For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for below 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

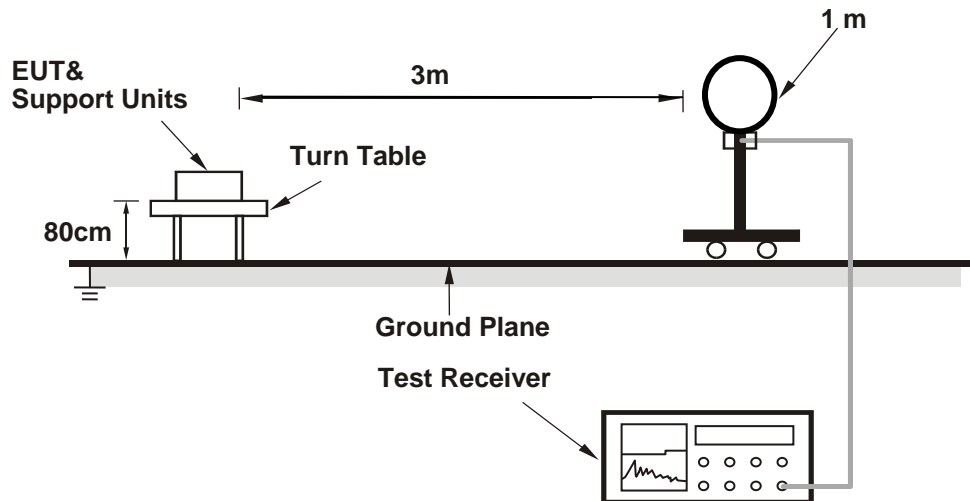
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is  $\geq 1/T$  (Duty cycle < 98%) or 10Hz (Duty cycle  $\geq 98\%$ ) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

### 4.1.4 Deviation from Test Standard

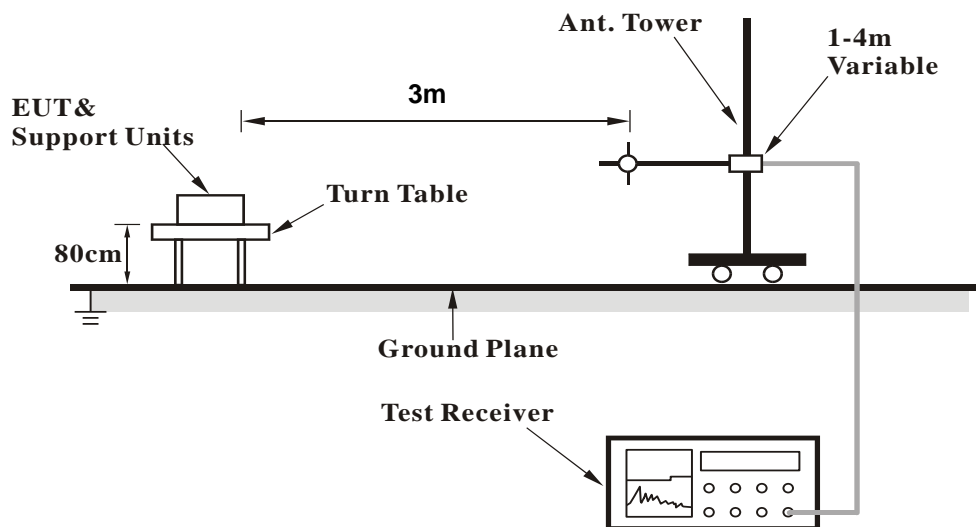
No deviation.

#### 4.1.5 Test Set Up

##### For Radiated emission below 30MHz



##### For Radiated emission 30MHz to 1GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

#### 4.1.6 EUT Operating Conditions

- Put the EUT on the Notebook.
- Set the EUT under transmission condition continuously at specific channel frequency.

### 4.1.7 Test Results

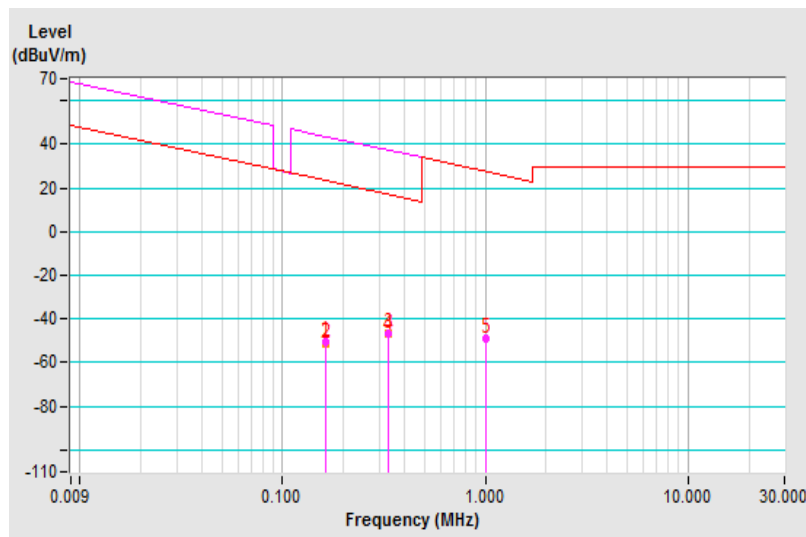
Below 30MHz Data:

Test Frequency	333kHz	Detector Function	Peak (PK)
Frequency Range	9 kHz ~ 30 MHz		Average (AV) Quasi-Peak (QP)

Antenna Polarity & Test Distance: Loop Antenna Parallel At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	0.1642	-50.51 PK	43.29	-93.80	1.00	237	65.84	-116.35
2	0.1642	-51.02 AV	23.29	-74.31	1.00	237	65.33	-116.35
3	*0.3330	-46.58 PK	37.15	-83.73	1.00	185	69.51	-116.09
4	*0.3330	-47.04 AV	17.15	-64.19	1.00	185	69.05	-116.09
5	0.9994	-48.74 QP	27.60	-76.34	1.00	304	-13.03	-35.71

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. “ \* “: Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. Test Result @300m= Emission Level @3m-40log(300 / 3)= Emission Level @3m-80
8. Test Result @30m= Emission Level @3m-40log(30 / 3)= Emission Level @3m-40

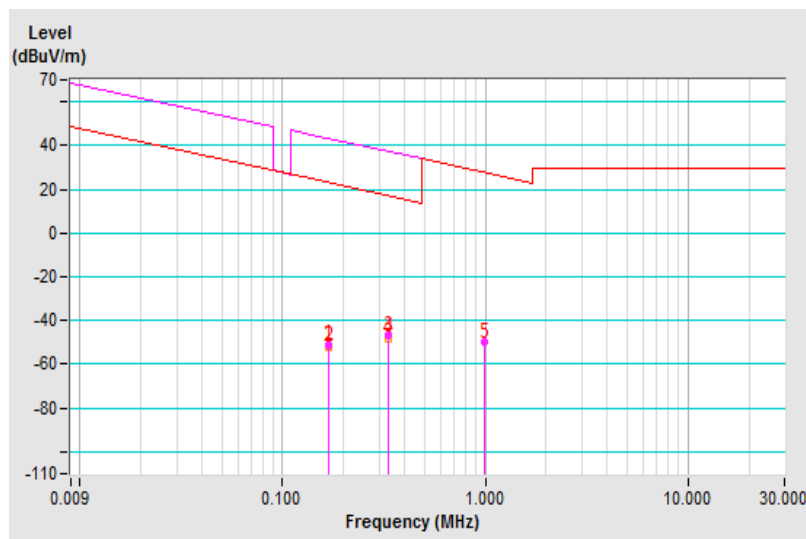


Test Frequency	333kHz	Detector Function	Peak (PK)
Frequency Range	9 kHz ~ 30 MHz		Average (AV)
			Quasi-Peak (QP)

Antenna Polarity & Test Distance: Loop Antenna Perpendicular At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	0.1672	-51.26 PK	43.14	-94.40	1.00	149	65.08	-116.34
2	0.1672	-51.97 AV	23.14	-75.11	1.00	149	64.37	-116.34
3	*0.3330	-47.07 PK	37.15	-84.22	1.00	261	69.02	-116.09
4	*0.3330	-47.98 AV	17.15	-65.13	1.00	261	68.11	-116.09
5	0.9989	-49.87 QP	27.61	-77.48	1.00	57	-14.16	-35.71

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. “ \* “: Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. Test Result @300m= Emission Level @3m-40log(300 / 3)= Emission Level @3m-80
8. Test Result @30m= Emission Level @3m-40log(30 / 3)= Emission Level @3m-40



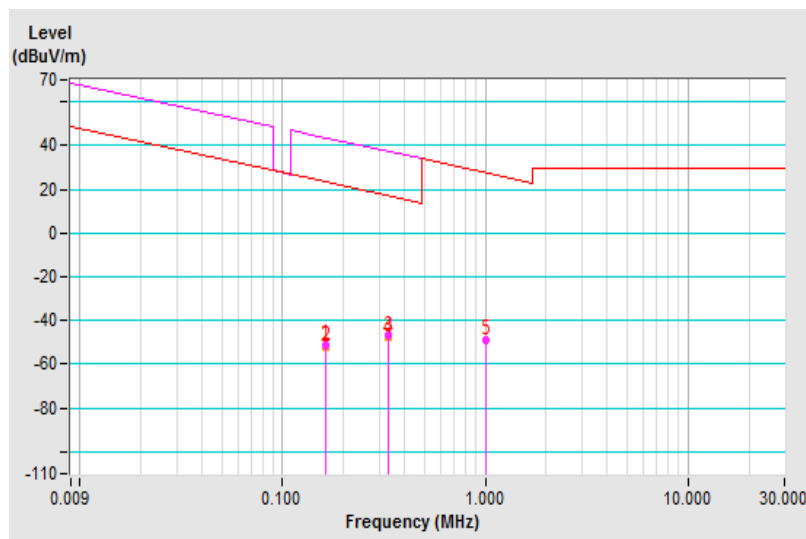


Test Frequency	333kHz	Detector Function	Peak (PK)
Frequency Range	9 kHz ~ 30 MHz		Average (AV)
			Quasi-Peak (QP)

Antenna Polarity & Test Distance: Loop Antenna Ground-parallel At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	0.1629	-51.04 PK	43.36	-94.40	1.00	34	65.31	-116.35
2	0.1629	-51.97 AV	23.36	-75.33	1.00	34	64.38	-116.35
3	*0.3330	-46.84 PK	37.15	-83.99	1.00	208	69.25	-116.09
4	*0.3330	-47.72 AV	17.15	-64.87	1.00	208	68.37	-116.09
5	0.9993	-48.95 QP	27.60	-76.55	1.00	155	-13.24	-35.71

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. “ \* “: Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. Test Result @300m= Emission Level @3m-40log(300 / 3)= Emission Level @3m-80
8. Test Result @30m= Emission Level @3m-40log(30 / 3)= Emission Level @3m-40



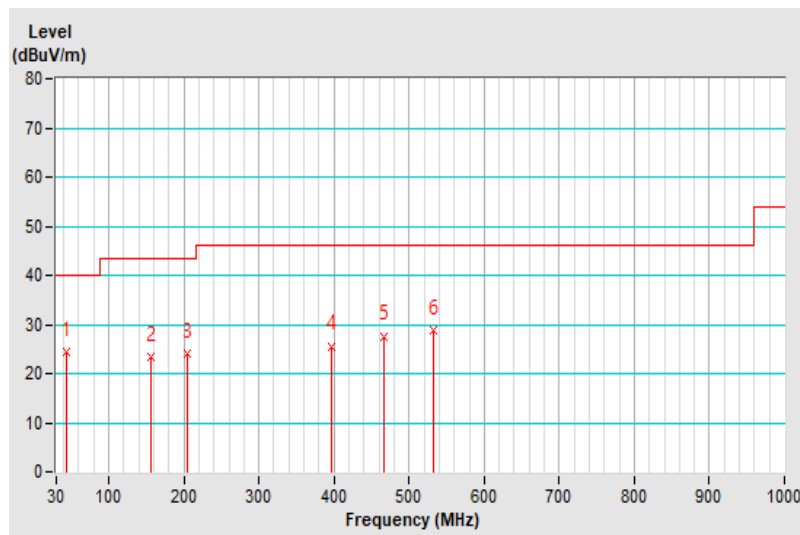
Below 1GHz Data:

Test Frequency	333kHz	Detector Function	Quasi-Peak
Frequency Range	30 MHz ~ 1GHz		

Antenna Polarity & Test Distance: Horizontal At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	43.24	24.29 QP	40.00	-15.71	1.36 H	315	31.80	-7.51
2	155.81	23.25 QP	43.50	-20.25	1.81 H	130	29.84	-6.59
3	205.47	23.97 QP	43.50	-19.53	1.35 H	180	33.08	-9.11
4	396.71	25.36 QP	46.00	-20.64	1.70 H	275	27.73	-2.37
5	466.84	27.39 QP	46.00	-18.61	2.17 H	244	27.86	-0.47
6	533.14	28.67 QP	46.00	-17.33	1.92 H	12	28.19	0.48

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

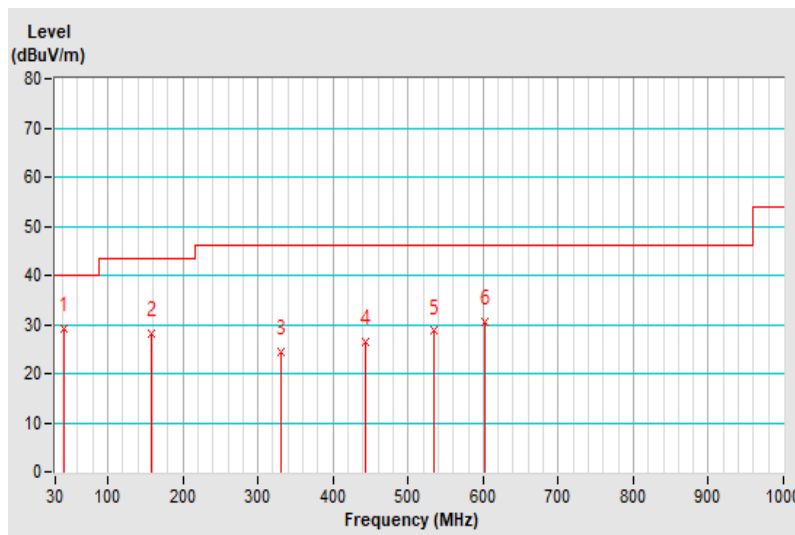


Test Frequency	333kHz	Detector Function	Quasi-Peak
Frequency Range	30 MHz ~ 1GHz		

Antenna Polarity & Test Distance: Vertical At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	40.91	29.31 QP	40.00	-10.69	1.53 V	47	37.02	-7.71
2	157.26	28.06 QP	43.50	-15.44	1.42 V	195	34.53	-6.47
3	330.94	24.38 QP	46.00	-21.62	1.89 V	313	27.71	-3.33
4	444.04	26.50 QP	46.00	-19.50	1.64 V	318	27.47	-0.97
5	533.77	28.71 QP	46.00	-17.29	1.08 V	313	28.23	0.48
6	602.45	30.65 QP	46.00	-15.35	1.97 V	40	28.35	2.30

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



## 5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

## Appendix – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited and approved according to ISO/IEC 17025.

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The address and road map of all our labs can be found in our web site also.

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