

## FCC Test Report

**Report No.:** RFBEBU-WTW-P23070062

**FCC ID:** E8HWBS23B5LUB

**Test Model:** WBS23B5LUB

**Series Model:** WBS23B5LUBXXXXX (where X may be 0-9, a-z, A-Z, ".", "-" or blank)

**Received Date:** 2023/7/4

**Test Date:** 2023/7/10 ~ 2023/7/11

**Issued Date:** 2023/9/11

**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-P23070062	Original release	2023/9/11

## 1 Certificate of Conformity

**Product:** USI Rechargeable Active Pen

**Brand:** Chicony

**Test Model:** WBS23B5LUB

**Series Model:** WBS23B5LUBXXXXX (where X may be 0-9, a-z, A-Z, ".", "-" or blank)

**Sample Status:** Engineering sample

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

**Test Date:** 2023/7/10 ~ 2023/7/11

**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:** 2023/9/11  
Annie Chang / Senior Specialist

**Approved by :** Jeremy Lin , **Date:** 2023/9/11  
Jeremy Lin / Project Engineer

## 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	Pass	Meet the requirement of limit. Minimum passing margin is -9.47dB at 0.49808MHz
15.209	Radiated Emission Test	Pass	Meet the requirement of limit. Minimum passing margin is -18.2dB at 559.09MHz
15.215 (c)	Emission Bandwidth	Pass	Reference only

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) ( $\pm$ )
Conducted Emissions at mains ports	150kHz ~ 30MHz	3.00 dB
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	2.38 dB
	30MHz ~ 1GHz	5.70 dB

### 2.2 Modification Record

There were no modifications required for compliance.

### 3 General Information

#### 3.1 General Description of EUT

Product	USI Rechargeable Active Pen
Brand	Chicony
Test Model	WBS23B5LUB
Series Model	WBS23B5LUBXXXXX (where X may be 0-9, a-z, A-Z, ".", "-" or blank)
Model Difference	Marketing purpose
Sample Status	Engineering sample
Power Supply Rating	3.7Vdc from battery or 5Vdc via USB interface
Modulation Type	PSK
Operating Frequency	111-494kHz
Number of Channel	385
Antenna Type	Loop antenna
Field Strength	-33.6dBuV/m @300m
Accessory Device	N/A
Data Cable Supplied	Shielded USB Type C cable (0.15m)

Note:

1. Due to radiated measurements are made and the antenna gain is already accounted for this device, so provide an antenna datasheet and/or antenna measurement report is not required. The antenna dimensions and pictures (include antenna wire length if have) are stated in EUT photo exhibit.
2. 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

385 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	310
2	112	52	162	102	212	152	262	202	311
3	113	53	163	103	213	153	263	203	312
4	114	54	164	104	214	154	264	204	313
5	115	55	165	105	215	155	265	205	314
6	116	56	166	106	216	156	266	206	315
7	117	57	167	107	217	157	267	207	316
8	118	58	168	108	218	158	268	208	317
9	119	59	169	109	219	159	269	209	318
10	120	60	170	110	220	160	270	210	319
11	121	61	171	111	221	161	271	211	320
12	122	62	172	112	222	162	272	212	321
13	123	63	173	113	223	163	273	213	322
14	124	64	174	114	224	164	274	214	323
15	125	65	175	115	225	165	275	215	324
16	126	66	176	116	226	166	276	216	325
17	127	67	177	117	227	167	277	217	326
18	128	68	178	118	228	168	278	218	327
19	129	69	179	119	229	169	279	219	328
20	130	70	180	120	230	170	280	220	329
21	131	71	181	121	231	171	281	221	330
22	132	72	182	122	232	172	282	222	331
23	133	73	183	123	233	173	283	223	332
24	134	74	184	124	234	174	284	224	333
25	135	75	185	125	235	175	285	225	334
26	136	76	186	126	236	176	285.7	226	335
27	137	77	187	127	237	177	286	227	336
28	138	78	188	128	238	178	287	228	337
29	139	79	189	129	239	179	288	229	338
30	140	80	190	130	240	180	289	230	339
31	141	81	191	131	241	181	290	231	340
32	142	82	192	132	242	182	291	232	341
33	143	83	193	133	243	183	292	233	342
34	144	84	194	134	244	184	293	234	343
35	145	85	195	135	245	185	294	235	344
36	146	86	196	136	246	186	295	236	345
37	147	87	197	137	247	187	296	237	346
38	148	88	198	138	248	188	297	238	347
39	149	89	199	139	249	189	298	239	348
40	150	90	200	140	250	190	299	240	349
41	151	91	201	141	251	191	300	241	350
42	152	92	202	142	252	192	301	242	351
43	153	93	203	143	253	193	302	243	352
44	154	94	204	144	254	194	303	244	353
45	155	95	205	145	255	195	304	245	354
46	156	96	206	146	256	196	305	246	355
47	157	97	207	147	257	197	306	247	356
48	158	98	208	148	258	198	307	248	357
49	159	99	209	149	259	199	308	249	358
50	160	100	210	150	260	200	309	250	359

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



### 3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable To			Description
	RE<1G	PLC	EB	
A	√	√	√	EUT Operating Mode
B	√	√	-	EUT Charging Mode (Powered from Notebook)
C	√	√	-	EUT Charging Mode (Powered from Adapter)

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

**EB**: Emission Bandwidth

**NOTE:** The EUT had been pre-tested on the positioned of each 3 axis. 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
A	111-494	285.7	PSK
B & C	-	-	-

#### Power Line Conducted Emission Test:

- 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
A	111-494	285.7	PSK
B & C	-	-	-

#### Emission Bandwidth t:

- 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
A	111-494	285.7	PSK

#### Test Condition:

Applicable To	EUT Configure Mode	Environmental Conditions	Input Power	Tested by
<b>RE&lt;1G</b>	A	22 deg. C, 65% RH	3.7Vdc	Jed Wu
	B	22 deg. C, 65% RH	120Vac, 60Hz (System)	Jed Wu
	C	22 deg. C, 65% RH	120Vac, 60Hz (Adapter)	Jed Wu
<b>PLC</b>	A	25 deg. C, 75% RH	120Vac, 60Hz (System)	Jed Wu
	B	25 deg. C, 75% RH	120Vac, 60Hz (System)	Jed Wu
	C	25 deg. C, 75% RH	120Vac, 60Hz (Adapter)	Jed Wu
<b>EB</b>	A	25 deg. C, 75% RH	120Vac, 60Hz (Adapter)	Dalen Dai

### 3.3 Description of Support Units

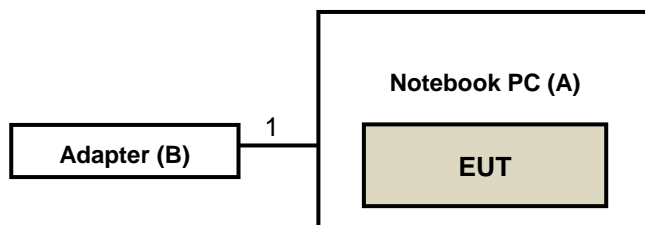
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Notebook PC	Lenovo	IP Duet3 Chrome 11Q727	YX05CDA6	N/A	Supplied by applicant
B.	Adapter	Belkin	WCB007dq	N/A	N/A	Provided by Lab

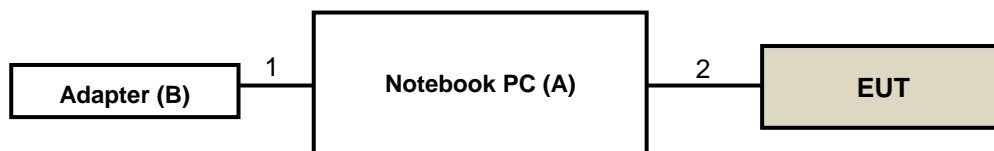
ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	USB Type C cable	1	1	Y	0	Provided by Lab
2	USB Type C cable	1	0.15	Y	0	Supplied by applicant

#### 3.3.1 Configuration of System under Test

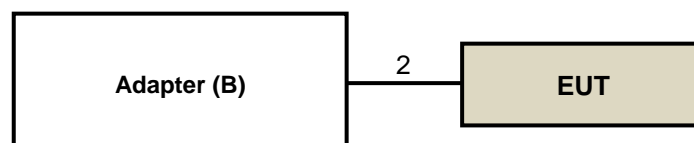
##### Mode A:



##### Mode B:



##### Mode C:



### 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)	uV/m (at 3m)	dBuV/m (at 3m)
30-88	100	40.0
88-216	150	43.5
216-960	200	46.0
Above 960	500	54.0

#### 4.1.2 Test Instruments

Description & Manufacturer	Model no.	Serial No.	Calibrated Date	Calibrated Until
MXE EMI Receiver Agilent	N9038A	MY51210129	2023/3/24	2024/3/23
MXE EMI Receiver Agilent	N9038A	MY51210137	2023/6/5	2024/6/4
Signal Analyzer R&S	FSV40	101544	2023/5/9	2024/5/8
Preamplifier EMCI	EMC001340	980269	2023/6/27	2024/6/26
Loop Antenna EMCI	LPA600	270	2021/9/2	2023/9/1
RF Coaxial Cable Pacific	8D-FB	Cable-CH6-02	2023/6/27	2024/6/26
Turn Table ADT	TT100	0306	NA	NA
Tower ADT	AT100	0306	NA	NA
Software BVADT	Radiated_V8.7.08	NA	NA	NA
Preamplifier HP	8447D	2432A03504	2023/2/16	2024/2/15
Bi_Log Antenna Schwarzbeck	VULB 9168	137	2022/10/21	2023/10/20
Coupling / Decoupling Network Schwarzbeck	CDNE-M2	00097	2023/5/25	2024/5/24
Coupling / Decoupling Network Schwarzbeck	CDNE-M3	00091	2023/5/25	2024/5/24

- 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 test was performed in Linkou 966 Chamber 6 (CH 6) , The test site validated date: 2022/10/29 (NSA)
  3. Tested Date: 2023/7/10 ~ 2023/7/11

### 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, except for the frequency band (9kHz-90kHz, 110kHz-490kHz) set to average detect function and peak detect function.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 200Hz at frequency range 9kHz to 150kHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency range 150kHz to 30MHz.

#### For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for below 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.

Note:

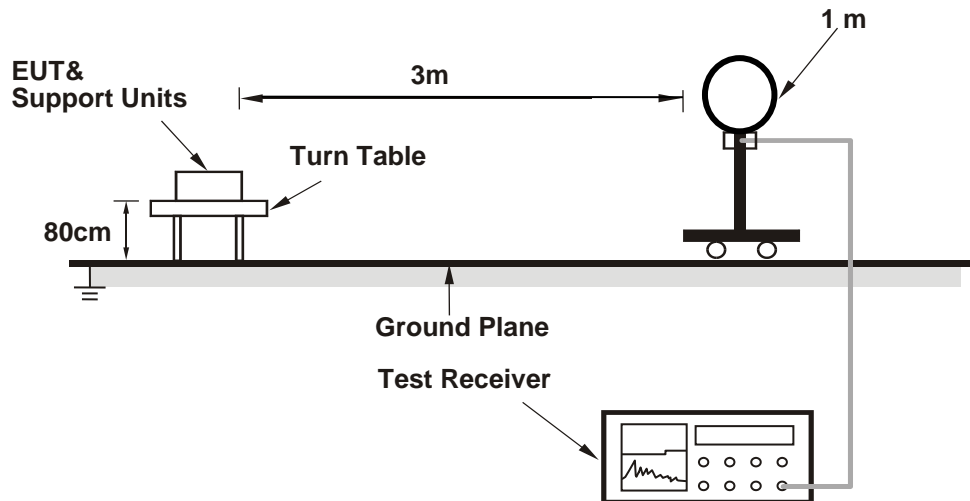
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. All modes of operation were investigated and the worst-case emissions are reported.

### 4.1.4 Deviation from Test Standard

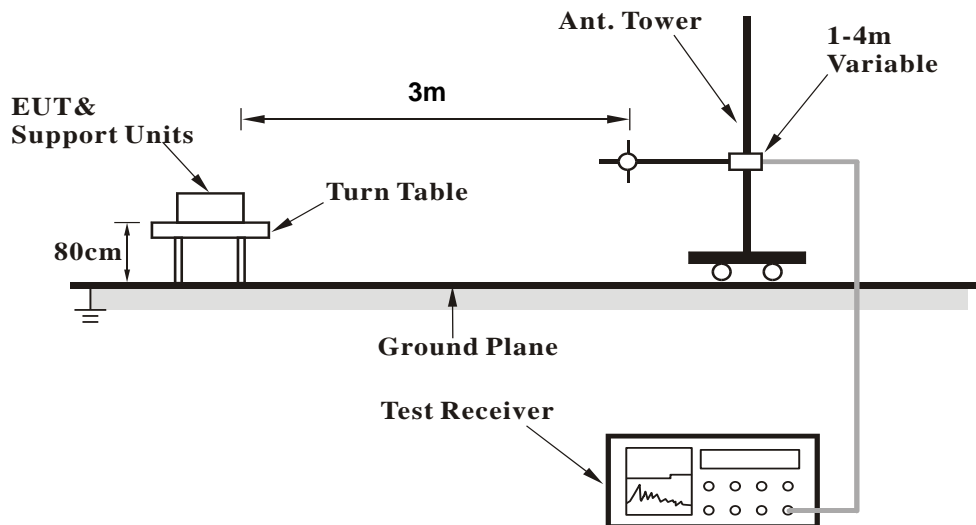
No deviation.

#### 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

Mode A:

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

Mode B & C:

- Connect the EUT to Notebook or Adapter.
- Set the EUT under charging condition.

#### 4.1.7 Test Results

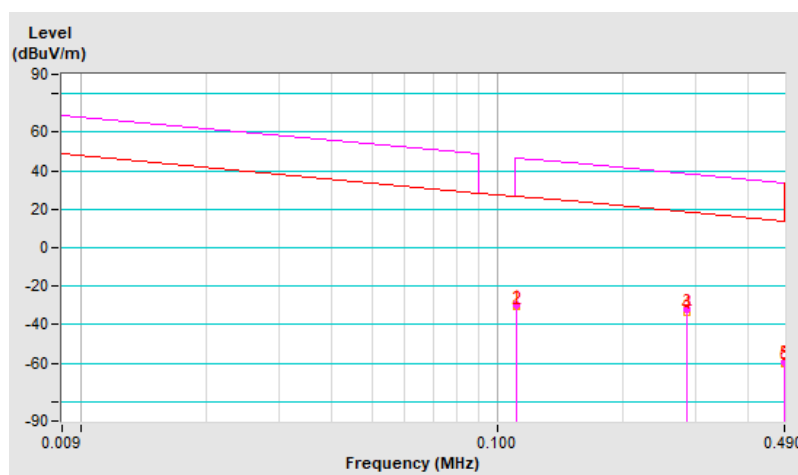
##### 9kHz~490kHz Data:

Test Frequency	285.7kHz	Detector Function	Peak (PK) Average (AV)
Frequency Range	9kHz ~ 490kHz		
Test Mode	A		

Antenna Polarity : Parallel								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	0.1110	-29.9 PK	46.7	-76.6	1.00	115	34.7	-64.6
2	0.1110	-30.8 AV	26.7	-57.5	1.00	115	33.8	-64.6
3	*0.2857	-32.4 PK	38.5	-70.9	1.00	257	39.1	-71.5
4	*0.2857	-33.6 AV	18.5	-52.1	1.00	257	37.9	-71.5
5	0.4890	-59.3 PK	33.8	-93.1	1.00	269	16.1	-75.4
6	0.4890	-60.2 AV	13.8	-74.0	1.00	269	15.2	-75.4

##### 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) + Distance Factor
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. The test distance for below 0.49 MHz is 3 m, extrapolate the measured field strength to a distance of 300 meters.  
Distance factor@3m =  $40 \cdot \log(3/300) = -80\text{dB}$



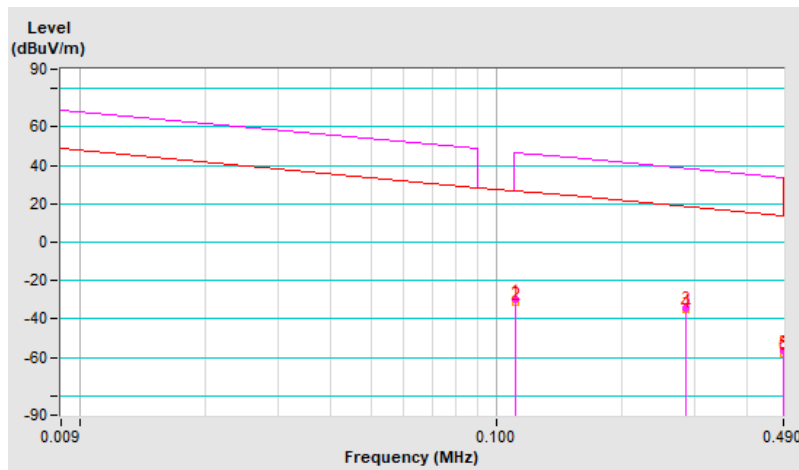
Test Frequency	285.7kHz	Detector Function	Peak (PK) Average (AV)
Frequency Range	9kHz ~ 490kHz		
Test Mode	A		

**Antenna Polarity : Perpendicular**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	0.1110	-30.1 PK	46.7	-76.8	1.00	333	34.5	-64.6
2	0.1110	-31.5 AV	26.7	-58.2	1.00	333	33.1	-64.6
3	*0.2857	-34.3 PK	38.5	-72.8	1.00	238	37.2	-71.5
4	*0.2857	-35.4 AV	18.5	-53.9	1.00	238	36.1	-71.5
5	0.4890	-56.8 PK	33.8	-90.6	1.00	239	18.6	-75.4
6	0.4890	-57.9 AV	13.8	-71.7	1.00	239	17.5	-75.4

**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) + Distance Factor
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. The test distance for below 0.49 MHz is 3 m, extrapolate the measured field strength to a distance of 300 meters.  
Distance factor@3m =  $40 \cdot \log(3/300) = -80\text{dB}$



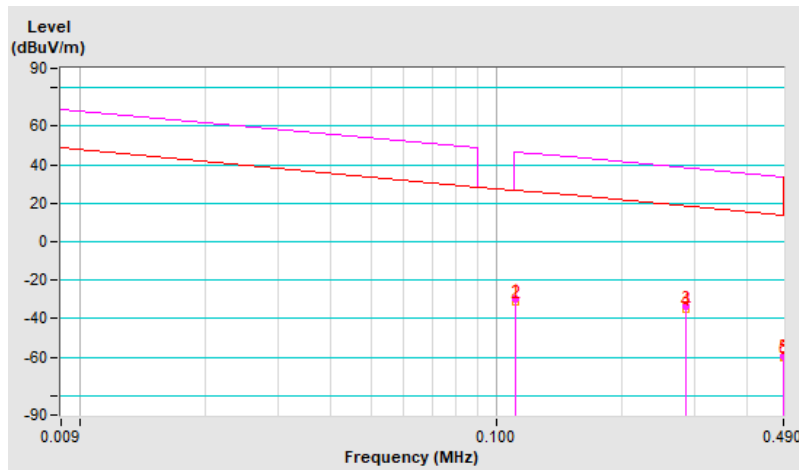


Test Frequency	285.7kHz	Detector Function	Peak (PK) Average (AV)
Frequency Range	9kHz ~ 490kHz		
Test Mode	A		

Antenna Polarity : Ground-parallel								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	0.1110	-30.1 PK	46.7	-76.8	1.00	143	34.5	-64.6
2	0.1110	-31.2 AV	26.7	-57.9	1.00	143	33.4	-64.6
3	*0.2857	-33.9 PK	38.5	-72.4	1.00	183	37.6	-71.5
4	*0.2857	-34.8 AV	18.5	-53.3	1.00	183	36.7	-71.5
5	0.4890	-59.3 PK	33.8	-93.1	1.00	269	16.1	-75.4
6	0.4890	-60.2 AV	13.8	-74.0	1.00	269	15.2	-75.4

**Remarks:**

- Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor
- Margin value = Emission Level – Limit value
- The other emission levels were very low against the limit.
- " \* ": Fundamental frequency.
- The test distance for below 0.49 MHz is 3 m, extrapolate the measured field strength to a distance of 300 meters.  
Distance factor@3m =  $40 \cdot \log(3/300) = -80\text{dB}$



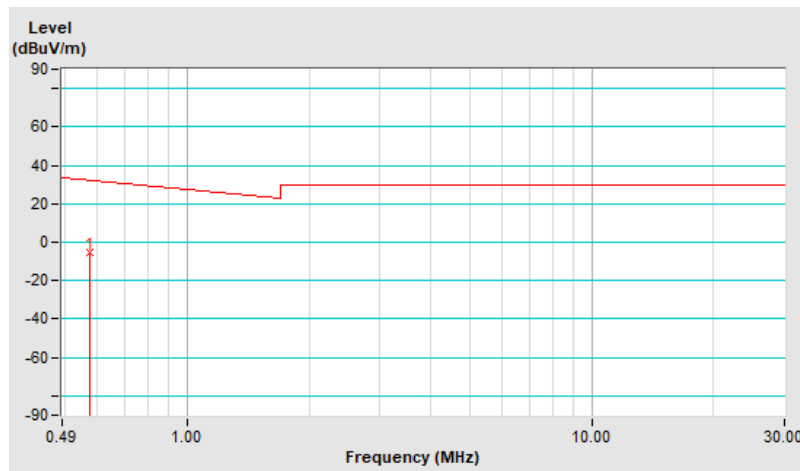
490kHz~30MHz Data:

Test Frequency	285.7kHz	Detector Function	Quasi-Peak (QP)
Frequency Range	490kHz ~ 30MHz		
Test Mode	A		

Antenna Polarity : Parallel								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	0.5714	-5.4 QP	32.5	-37.9	1.00	169	30.8	-36.2

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) + Distance Factor
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. The test distance for 0.49 ~ 30 MHz is 3 m, extrapolate the measured field strength to a distance of 30 meters.  
Distance factor@3m =  $40 \cdot \log(3/30) = -40\text{dB}$



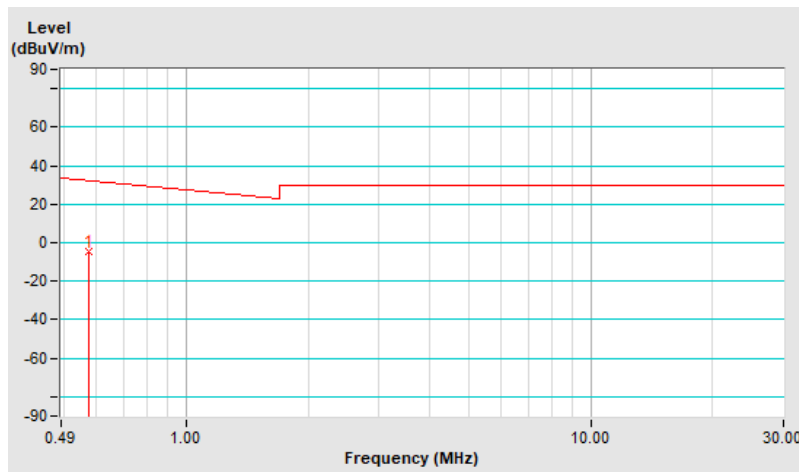
Test Frequency	285.7kHz	Detector Function	Quasi-Peak (QP)
Frequency Range	490kHz ~ 30MHz		
Test Mode	A		

Antenna Polarity : Perpendicular

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	0.5714	-4.3 QP	32.5	-36.8	1.00	219	31.9	-36.2

**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) + Distance Factor
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. The test distance for 0.49 ~ 30 MHz is 3 m, extrapolate the measured field strength to a distance of 30 meters.  
Distance factor@3m =  $40 \cdot \log(3/30) = -40\text{dB}$



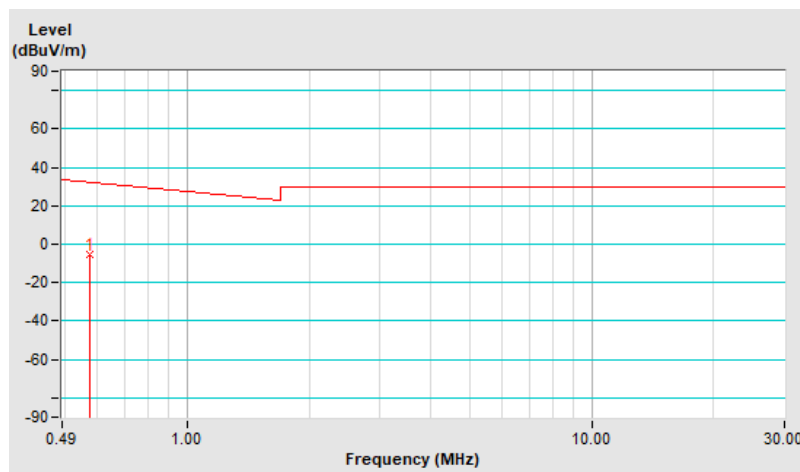
Test Frequency	285.7kHz	Detector Function	Quasi-Peak (QP)
Frequency Range	490kHz ~ 30MHz		
Test Mode	A		

**Antenna Polarity : Ground-parallel**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	0.5714	-5.2 QP	32.5	-37.7	1.00	306	31.0	-36.2

**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) + Distance Factor
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. The test distance for 0.49 ~ 30 MHz is 3 m, extrapolate the measured field strength to a distance of 30 meters.  
Distance factor@3m =  $40 \cdot \log(3/30) = -40\text{dB}$



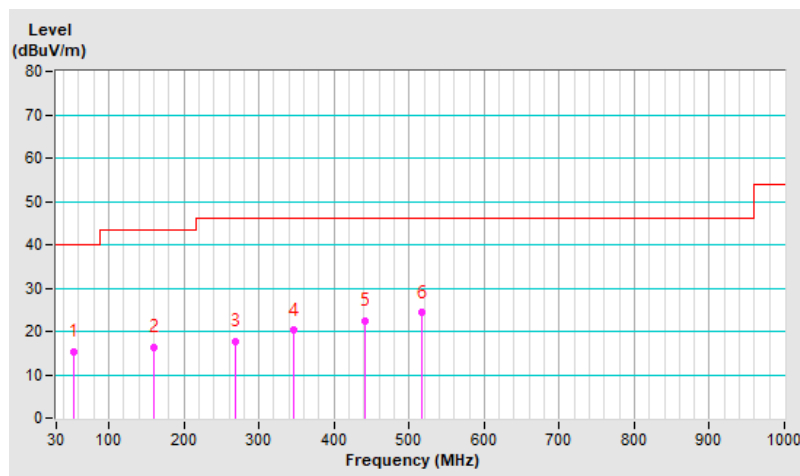
30MHz ~ 1GHz Data:

Test Frequency	285.7kHz	Detector Function	Quasi-Peak (QP)
Frequency Range	30 MHz ~ 1GHz		
Test Mode	A		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	53.33	15.2 QP	40.0	-24.8	1.83 H	98	23.7	-8.5
2	159.54	16.4 QP	43.5	-27.1	1.79 H	161	24.5	-8.1
3	269.40	17.7 QP	46.0	-28.3	1.94 H	178	24.8	-7.1
4	345.30	20.2 QP	46.0	-25.8	1.46 H	185	25.5	-5.3
5	440.89	22.4 QP	46.0	-23.6	1.58 H	79	25.2	-2.8
6	517.18	24.3 QP	46.0	-21.7	1.37 H	45	25.7	-1.4

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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.

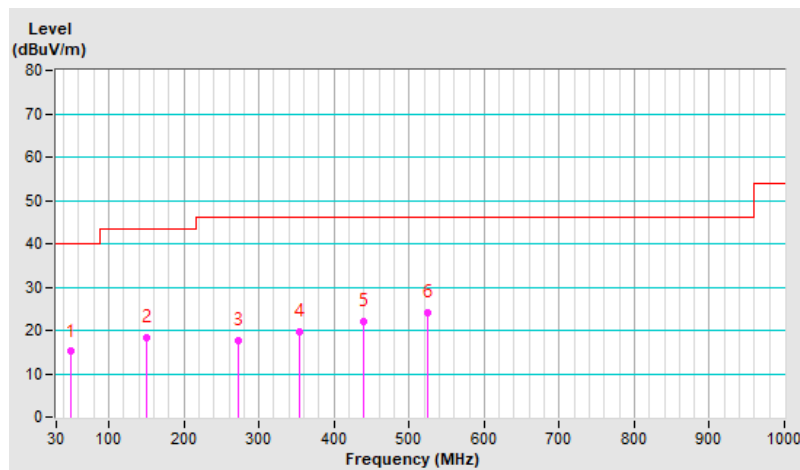


Test Frequency	285.7kHz	Detector Function	Quasi-Peak (QP)
Frequency Range	30 MHz ~ 1GHz		
Test Mode	A		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	50.03	15.1 QP	40.0	-24.9	1.27 V	0	23.5	-8.4
2	151.15	18.3 QP	43.5	-25.2	1.34 V	17	26.5	-8.2
3	271.97	17.6 QP	46.0	-28.4	1.58 V	55	24.6	-7.0
4	353.83	19.7 QP	46.0	-26.3	1.76 V	102	24.9	-5.2
5	438.81	22.2 QP	46.0	-23.8	1.61 V	14	25.0	-2.8
6	523.92	24.1 QP	46.0	-21.9	1.44 V	57	25.4	-1.3

**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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.

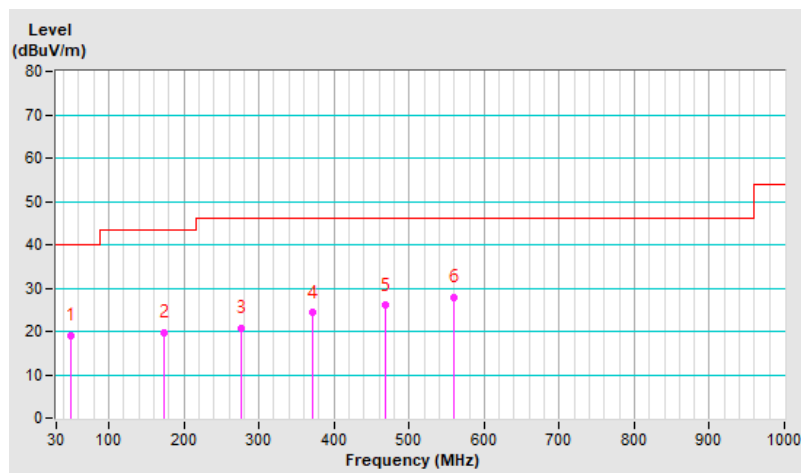


Frequency Range	30 MHz ~ 1GHz	Detector Function	Quasi-Peak (QP)
Test Mode	B		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	49.84	19.0 QP	40.0	-21.0	1.47 H	196	27.4	-8.4
2	173.90	19.7 QP	43.5	-23.8	1.58 H	254	28.6	-8.9
3	276.57	20.6 QP	46.0	-25.4	1.69 H	50	27.4	-6.8
4	371.29	24.3 QP	46.0	-21.7	1.73 H	331	28.9	-4.6
5	468.97	26.0 QP	46.0	-20.0	1.82 H	75	28.4	-2.4
<b>6</b>	<b>559.09</b>	<b>27.8 QP</b>	<b>46.0</b>	<b>-18.2</b>	<b>1.91 H</b>	<b>319</b>	<b>28.4</b>	<b>-0.6</b>

**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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.

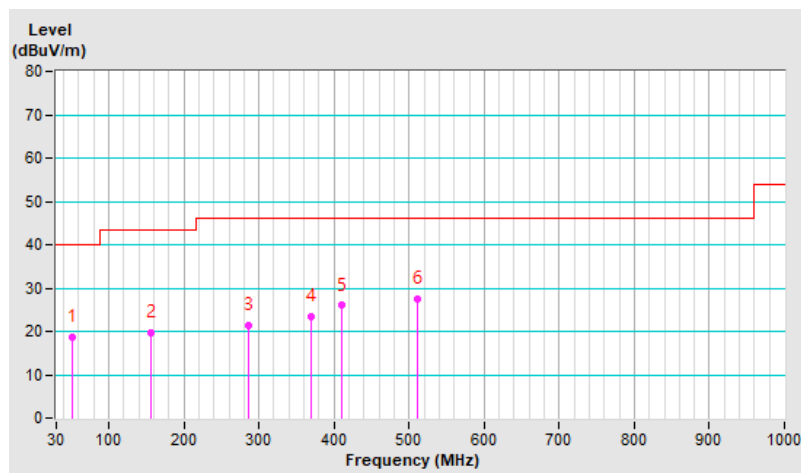


Frequency Range	30 MHz ~ 1GHz	Detector Function	Quasi-Peak (QP)
Test Mode	B		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	51.39	18.8 QP	40.0	-21.2	1.37 V	54	27.2	-8.4
2	155.47	19.6 QP	43.5	-23.9	1.25 V	15	27.7	-8.1
3	286.32	21.5 QP	46.0	-24.5	1.46 V	322	28.0	-6.5
4	368.58	23.4 QP	46.0	-22.6	1.89 V	167	28.1	-4.7
5	409.42	26.0 QP	46.0	-20.0	1.73 V	75	29.8	-3.8
6	511.90	27.5 QP	46.0	-18.5	1.18 V	304	28.9	-1.4

**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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.



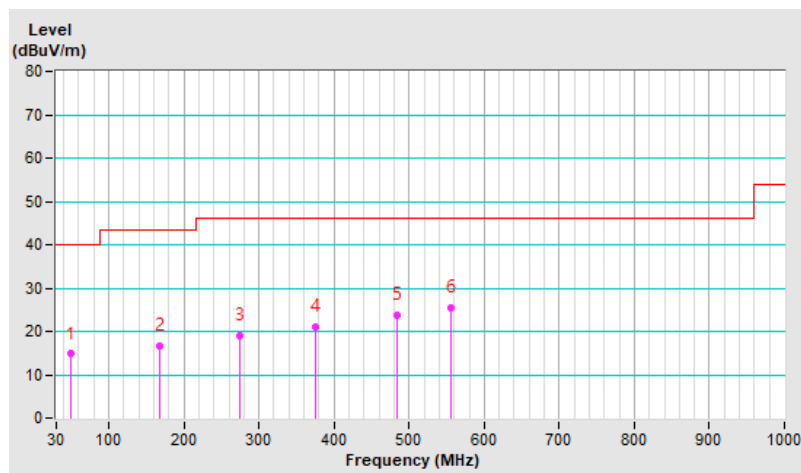


Frequency Range	30 MHz ~ 1GHz	Detector Function	Quasi-Peak (QP)
Test Mode	C		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	48.58	14.8 QP	40.0	-25.2	1.46 H	16	23.2	-8.4
2	167.35	16.6 QP	43.5	-26.9	1.23 H	120	24.9	-8.3
3	275.31	19.1 QP	46.0	-26.9	1.35 H	86	25.9	-6.8
4	375.47	21.0 QP	46.0	-25.0	1.68 H	279	25.5	-4.5
5	483.09	23.8 QP	46.0	-22.2	1.87 H	13	25.8	-2.0
6	554.82	25.4 QP	46.0	-20.6	1.93 H	103	26.1	-0.7

**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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.

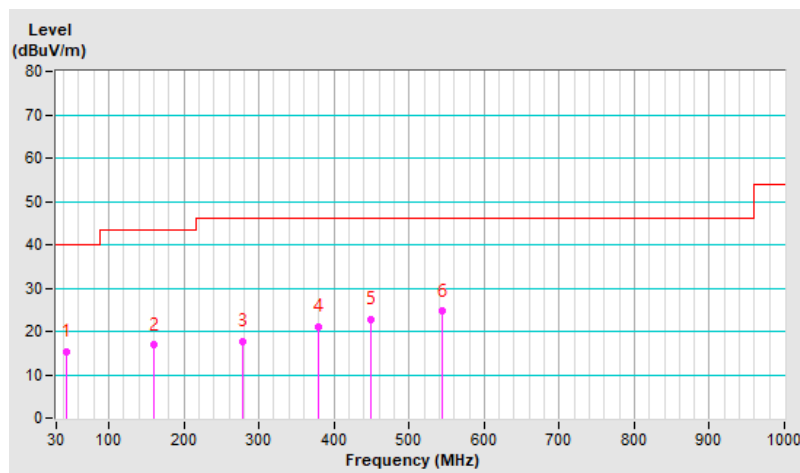


Frequency Range	30 MHz ~ 1GHz	Detector Function	Quasi-Peak (QP)
Test Mode	C		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	43.63	15.4 QP	40.0	-24.6	1.13 V	188	24.4	-9.0
2	159.01	16.8 QP	43.5	-26.7	1.24 V	300	24.9	-8.1
3	278.37	17.7 QP	46.0	-28.3	1.58 V	59	24.4	-6.7
4	379.10	21.0 QP	46.0	-25.0	1.73 V	317	25.4	-4.4
5	449.91	22.8 QP	46.0	-23.2	1.96 V	101	25.5	-2.7
6	543.86	24.6 QP	46.0	-21.4	1.88 V	181	25.6	-1.0

**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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.



## 4.2 Conducted Emission Measurement

### 4.2.1 Limits of Conducted Emission Measurement

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

### 4.2.2 Test Instruments

Description & Manufacturer	Model no.	Serial No.	Calibrated Date	Calibrated Until
EMI Test Receiver R&S	ESR3	102412	2022/12/21	2023/12/20
EMI Test Receiver R&S	ESCS 30	100276	2023/4/20	2024/4/19
LISN Schwarzbeck	NSLK 8128	8128-244	2022/11/8	2023/11/7
LISN Schwarzbeck	NNLK 8121	8121-808	2023/5/2	2024/5/1
LISN Schwarzbeck	NNLK 8121	8121-00759	2022/8/18	2023/8/17
LISN Schwarzbeck	NNLK 8121	8121-731	2023/6/9	2024/6/8
LISN Schwarzbeck	NNLK 8129	8129229	2023/6/27	2024/6/26
DC LISN R&S	ESH3-Z6	844950/018	2022/8/2	2023/8/1
DC LISN R&S	ESH3-Z6	100219	2022/8/2	2023/8/1
High Voltage Probe Schwarzbeck	TK9420	00982	2022/12/14	2023/12/13
RF Coaxial Cable PEWC	5D-FB	Cable-CO5-01	2023/1/19	2024/1/18
Fixed Attenuator STI	STI02-2200-10	NO.4	2022/9/2	2023/9/1
50 ohm terminal resistance LYNICS	0900510	E1-01-305	2023/2/13	2024/2/12
50 ohm terminal resistance LYNICS	0900510	E1-011286	2022/9/19	2023/9/18
50 ohm terminal resistance LYNICS	0900510	E1-011285	2022/9/19	2023/9/18
Isolation Transformer Erika Fiedler	D-65396	017	2022/9/8	2023/9/7
Software BVADT	Cond_V7.3.7.4	NA	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in Linkou Conduction 5.

3. Tested Date: 2023/7/11

#### 4.2.3 Test Procedures

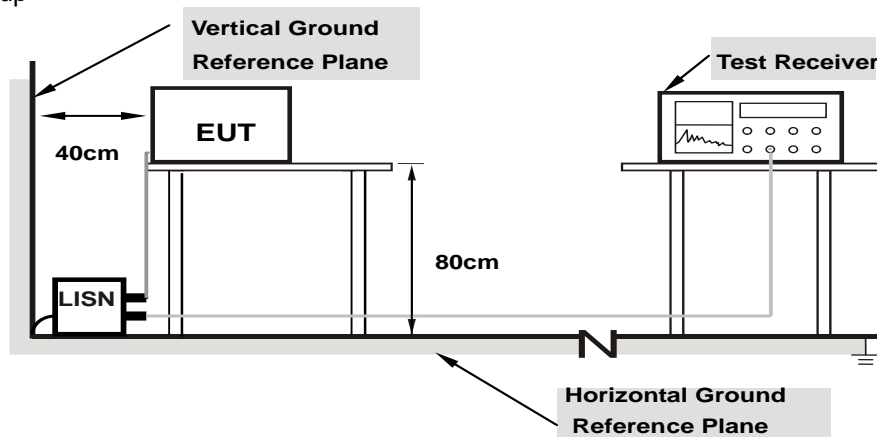
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

**NOTE:** The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

#### 4.2.4 Deviation from Test Standard

No deviation.

#### 4.2.5 Test Setup



**Note: 1. Support units were connected to second LISN.**

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

#### 4.2.6 EUT Operating Conditions

Same as item 4.1.6.

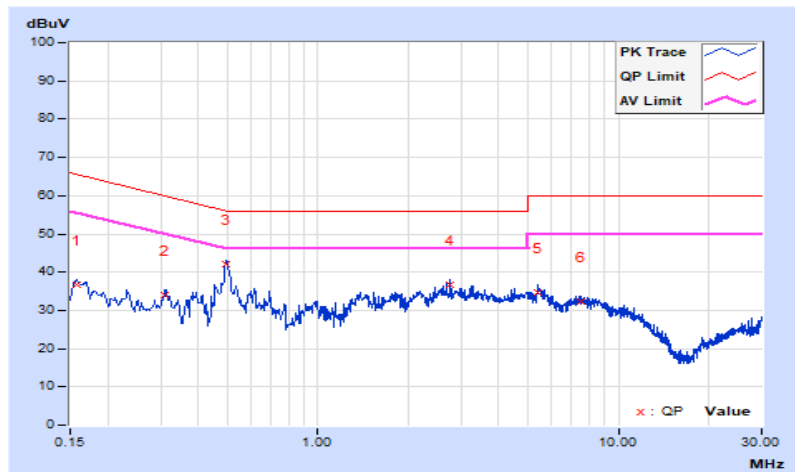
#### 4.2.7 Test Results

Test Frequency	285.7kHz	Detector Function	Quasi-Peak (QP) / Average (AV)
Frequency Range	150kHz ~ 30MHz	Test Mode	A

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15760	10.09	26.74	19.50	36.83	29.59	65.59	55.59	-28.76	-26.00
2	0.31104	10.21	23.96	17.17	34.17	27.38	59.94	49.94	-25.77	-22.56
3	0.49417	10.27	31.87	22.77	42.14	33.04	56.10	46.10	-13.96	-13.06
4	2.76838	10.47	26.16	18.27	36.63	28.74	56.00	46.00	-19.37	-17.26
5	5.40283	10.58	24.03	17.86	34.61	28.44	60.00	50.00	-25.39	-21.56
6	7.47957	10.63	21.66	15.45	32.29	26.08	60.00	50.00	-27.71	-23.92

**Remarks:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

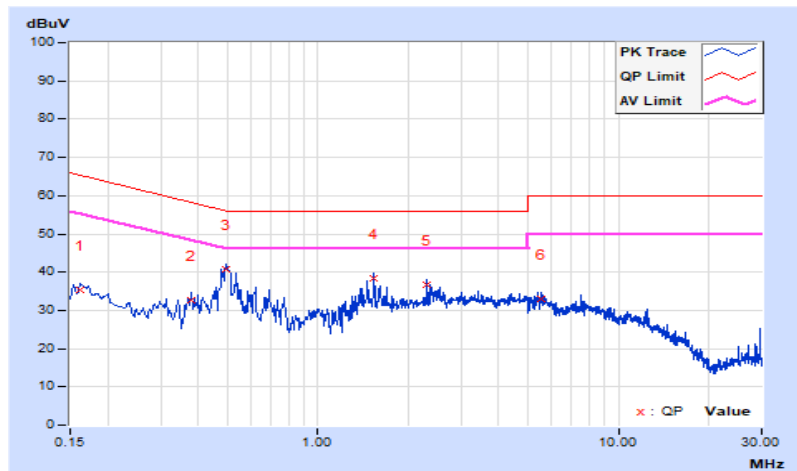


Test Frequency	285.7kHz	Detector Function	Quasi-Peak (QP) / Average (AV)
Frequency Range	150kHz ~ 30MHz	Test Mode	A

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16173	10.12	25.16	20.36	35.28	30.48	65.37	55.37	-30.09	-24.89
2	0.38075	10.23	22.48	10.55	32.71	20.78	58.26	48.26	-25.55	-27.48
<b>3</b>	<b>0.49808</b>	<b>10.24</b>	<b>30.39</b>	<b>26.32</b>	<b>40.63</b>	<b>36.56</b>	<b>56.03</b>	<b>46.03</b>	<b>-15.40</b>	<b>-9.47</b>
4	1.54033	10.31	28.06	13.30	38.37	23.61	56.00	46.00	-17.63	-22.39
5	2.31079	10.33	26.28	16.48	36.61	26.81	56.00	46.00	-19.39	-19.19
6	5.52407	10.52	22.40	15.84	32.92	26.36	60.00	50.00	-27.08	-23.64

**Remarks:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

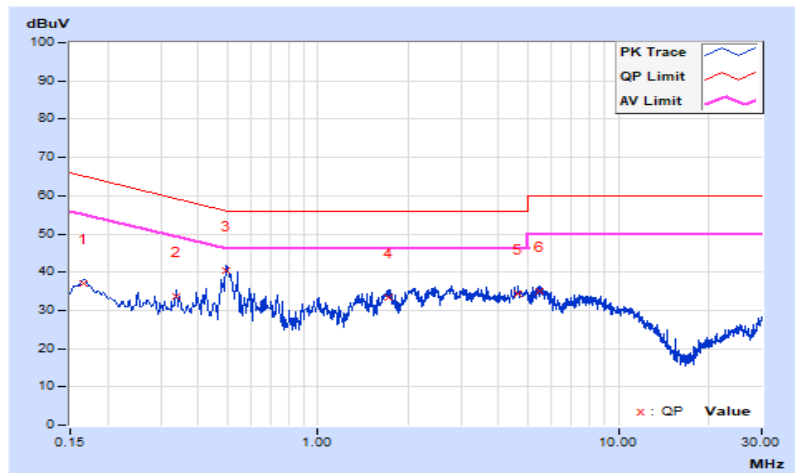


Frequency Range	150kHz ~ 30MHz	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16526	10.10	27.02	20.21	37.12	30.31	65.20	55.20	-28.08	-24.89
2	0.33773	10.22	23.38	11.26	33.60	21.48	59.26	49.26	-25.66	-27.78
3	0.49808	10.27	30.28	20.13	40.55	30.40	56.03	46.03	-15.48	-15.63
4	1.71632	10.42	22.97	16.40	33.39	26.82	56.00	46.00	-22.61	-19.18
5	4.65348	10.56	23.92	14.35	34.48	24.91	56.00	46.00	-21.52	-21.09
6	5.46932	10.58	24.49	18.00	35.07	28.58	60.00	50.00	-24.93	-21.42

**Remarks:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

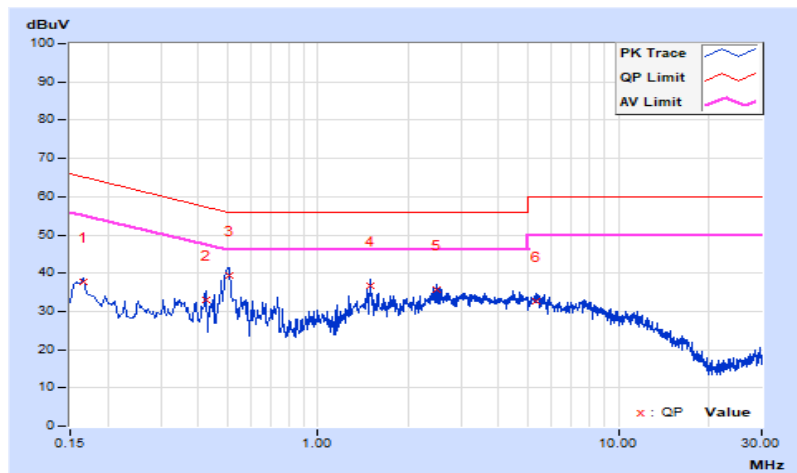


Frequency Range	150kHz ~ 30MHz	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16564	10.13	27.58	15.75	37.71	25.88	65.18	55.18	-27.47	-29.30
2	0.42335	10.23	22.83	14.24	33.06	24.47	57.38	47.38	-24.32	-22.91
3	0.50776	10.24	29.06	18.71	39.30	28.95	56.00	46.00	-16.70	-17.05
4	1.49339	10.30	26.44	13.04	36.74	23.34	56.00	46.00	-19.26	-22.66
5	2.49852	10.35	25.33	17.38	35.68	27.73	56.00	46.00	-20.32	-18.27
6	5.30506	10.51	22.24	15.38	32.75	25.89	60.00	50.00	-27.25	-24.11

**Remarks:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



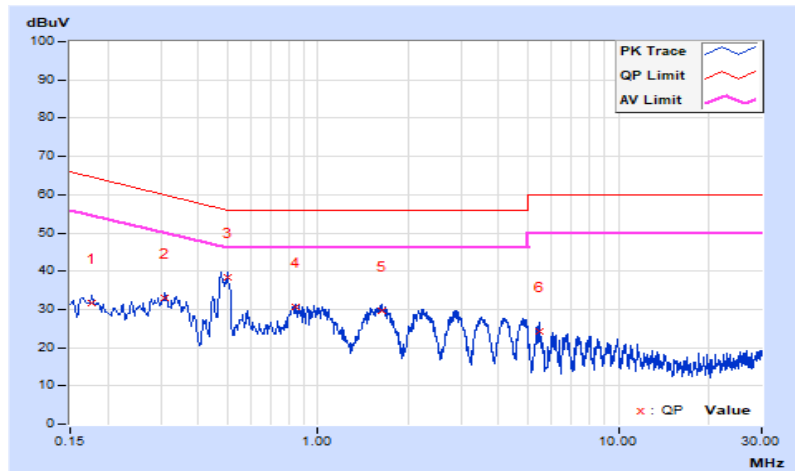


Frequency Range	150kHz ~ 30MHz	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	C		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17738	10.12	21.43	11.80	31.55	21.92	64.61	54.61	-33.06	-32.69
2	0.31035	10.21	22.77	9.05	32.98	19.26	59.96	49.96	-26.98	-30.70
3	0.50000	10.28	28.23	13.49	38.51	23.77	56.00	46.00	-17.49	-22.23
4	0.84417	10.36	20.33	9.70	30.69	20.06	56.00	46.00	-25.31	-25.94
5	1.62637	10.42	19.14	5.05	29.56	15.47	56.00	46.00	-26.44	-30.53
6	5.43803	10.58	13.66	4.83	24.24	15.41	60.00	50.00	-35.76	-34.59

**Remarks:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

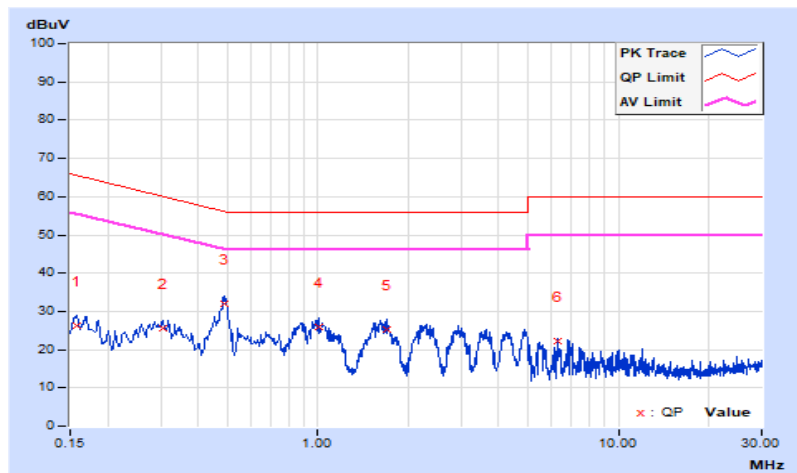


Frequency Range	150kHz ~ 30MHz	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	C		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15719	10.11	16.01	4.03	26.12	14.14	65.61	55.61	-39.49	-41.47
2	0.30616	10.22	15.38	5.80	25.60	16.02	60.07	50.07	-34.47	-34.05
3	0.48635	10.24	21.76	6.06	32.00	16.30	56.23	46.23	-24.23	-29.93
4	1.00452	10.30	15.61	1.95	25.91	12.25	56.00	46.00	-30.09	-33.75
5	1.68842	10.31	14.78	1.64	25.09	11.95	56.00	46.00	-30.91	-34.05
6	6.31410	10.54	11.66	4.58	22.20	15.12	60.00	50.00	-37.80	-34.88

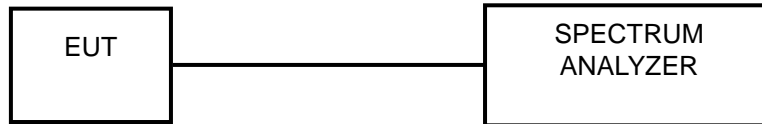
**Remarks:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



### 4.3 Emission Bandwidth

#### 4.3.1 Test Setup



#### 4.3.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

#### 4.3.3 Test Procedures

RBW=approximately 1~5% of the emission bandwidth and VBW  $\geq$  3 RBW.

#### 4.3.4 Deviation from Test Standard

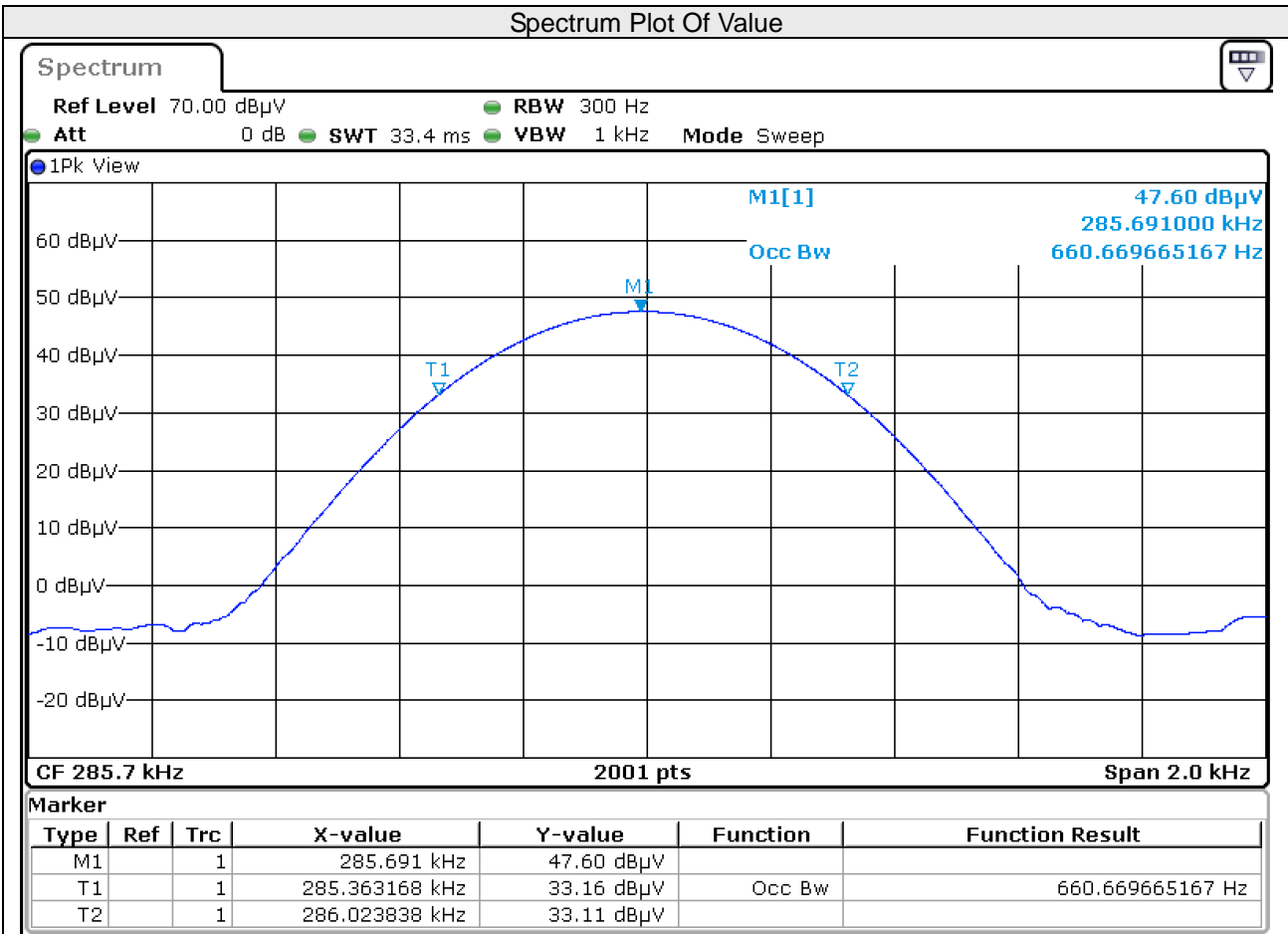
No deviation.

#### 4.3.5 EUT Operating Conditions

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

### 4.3.6 Test Results

OCP Point (T1)	OCP Point (T2)	Operating Frequency Band (kHz)
285.363168 kHz	286.023838 kHz	110 ~495



Note: The signal look like CW signal, so RBW can't be match 1~5 % OBW.

## 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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