

FCC Test Report

Report No.: RF150105C16A

FCC ID: A8J-SP935

Test Model: SP-935 (refer to item 3.1 for more detail)

Received Date: Oct. 16, 2015

Test Date: Oct. 23 ~ Oct. 28, 2015

Issued Date: Nov. 03, 2015

Applicant: EnGenius Technologies

Address: 1580 Scenic Avenue, Costa Mesa, CA92626

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

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

Test Location: No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City
33383, TAIWAN (R.O.C.)



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Release Control Record

Issue No.	Description	Date Issued
RF150105C16A	Original release.	Nov. 03, 2015

1 Certificate of Conformity

Product: Long Range Cordless SIP Phone System

Brand: EnGenius

Test Model: SP-935 (refer to item 3.1 for more detail)

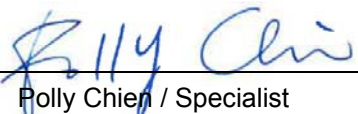
Sample Status: Engineering sample

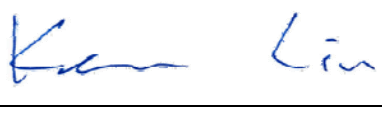
Applicant: EnGenius Technologies

Test Date: Oct. 23 ~ Oct. 28, 2015

Standards: 47 CFR FCC Part 15, Subpart C (Section 15.247)
ANSI C63.10:2013

This report is issued as a supplementary report of RF150105C16. This report shall be used combined together with its original report.

Prepared by : , **Date:** Nov. 03, 2015
Polly Chien / Specialist

Approved by : , **Date:** Nov. 03, 2015
Ken Liu / Senior Manager

Note: Radiated emission below 1GHz and conducted emission items are performed for the addendum. Refer to original report for the other test data.

2 Summary of Test Results

47 CFR FCC Part 15, Subpart C (SECTION 15.247)			
FCC Clause	Test Item	Result	Remarks
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -3.99dB at 11.12109MHz.
15.205 / 15.209 / 15.247(d)	Radiated Emissions and Band Edge Measurement	PASS	Meet the requirement of limit. Minimum passing margin is -2.2dB at 895.11MHz.
15.247(d)	Antenna Port Emission	N/A	Refer to Note
15.247(a)(2)	6dB bandwidth	N/A	Refer to Note
15.247(b)	Conducted power	N/A	Refer to Note
15.247(e)	Power Spectral Density	N/A	Refer to Note
15.203	Antenna Requirement	N/A	Refer to Note

Note: Radiated emission below 1GHz and conducted emission items are performed for the addendum. Refer to original report for the other test data.

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	2.44 dB
Radiated Emissions up to 1 GHz	30MHz ~ 200MHz	3.86 dB
	200MHz ~ 1000MHz	3.87 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Long Range Cordless SIP Phone System
Brand	EnGenius
Test Model	SP-935 (refer to note as below)
Status of EUT	Engineering sample
Power Supply Rating	12Vdc (Adapter)
Modulation Type	MSK
Operating Frequency	902.3840 ~ 927.4656MHz
Number of Channel	50
Channel Spacing	202.272kHz
Output Power	859.014mW
Antenna Type	Dipole antenna with 2dBi gain
Antenna Connector	Reversed TNC
Data Cable	1.8m non-shielded RJ11 cable W/O core 1.8m non-shielded audio cable W/O core 1m non-shielded RJ45 cable W/O core 1m non-shielded ground cable W/O core
I/O Ports	Refer to user's manual
Accessory Device	Adapter

NOTE:

1. This report is issued as a supplementary report of BVADT report no.: RF150105C16. This report shall be combined together with its original report.
2. This report is prepared for FCC class I permissive change. Differences compared with the original report are adding two adapters. Therefore, we re-tested radiated emission below 1GHz and conducted emission tests and presented in the test report.
3. All models are electrically identical, different model names are for marketing purpose.

Brand	Model	Remark
EnGenius	SP-935	marketing purpose
EnGenius	DuraFon-SIP	

* The model of the SP-935 was chosen for final test.

4. The EUT uses following adapters. (The New adapters are adapter 2 and 3).

Adapter 1	
Brand	DVE
Model	DSA-12G-12 FUS 120120
Input Power	100-240V~50/60Hz 0.3A
Output Power	12Vdc, 1A
Power Line	1.45m power cable w/o core attached on adapter

Adapter 2	
Brand	DVE
Model	DSA-12PFT-12 FUS 120100
Input Power	100-240Vac~50/60Hz 0.5A
Output Power	+12Vdc / 1A
Poewr Line	1.45m power cable w/o core attached on adapter

Adapter 3	
Brand	Atech OEM
Model	A0126PU-120010
Input Power	100-240Vac~50-60Hz 0.5A
Output Power	12Vdc / 1.0A
Poewr Line	1.5m power cable w/o core attached on adapter

5. The above EUT information was declared by the manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

3.2 Description of Test Modes

50 channels are provided to this EUT:

Ch.	Freq. (MHz)	Ch.	Freq. (MHz)	Ch.	Freq. (MHz)	Ch.	Freq. (MHz)	Ch.	Freq. (MHz)
1	902.3840	11	907.6430	21	912.4975	31	918.1611	41	923.0157
2	902.7885	12	908.0476	22	912.9021	32	918.9702	42	923.8247
3	903.1930	13	908.4521	23	913.3066	33	919.3748	43	924.2293
4	903.5976	14	909.2612	24	914.1157	34	919.7793	44	924.6338
5	904.4067	15	909.6657	25	914.9248	35	920.1839	45	925.0384
6	904.8112	16	910.0703	26	915.3293	36	920.5884	46	925.4429
7	905.2158	17	910.4748	27	915.7339	37	921.3975	47	926.2520
8	905.6203	18	910.8797	28	916.5430	38	921.8020	48	926.6566
9	906.0248	19	911.6885	29	917.3521	39	922.2066	49	927.0611
10	906.8339	20	912.0930	30	917.7566	40	922.6111	50	927.4656

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT CONFIGURE MODE	APPLICABLE TO		DESCRIPTION
	RE<1G	PLC	
A	√	√	EUT with adapter 1
B	√	√	EUT with adapter 2

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

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	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE	AXIS
A	1 to 50	1, 25, 50	MSK	X
B	1 to 50	1, 25, 50	MSK	X

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	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE
A	1 to 50	1, 25, 50	MSK
B	1 to 50	1, 25, 50	MSK

Test Condition:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE<1G	18deg. C, 70%RH	120Vac, 60Hz	Nick Hsu, Jones Chang
PLC	18deg. C, 70%RH	120Vac, 60Hz	Nick Hsu

3.3 Description of Support Units

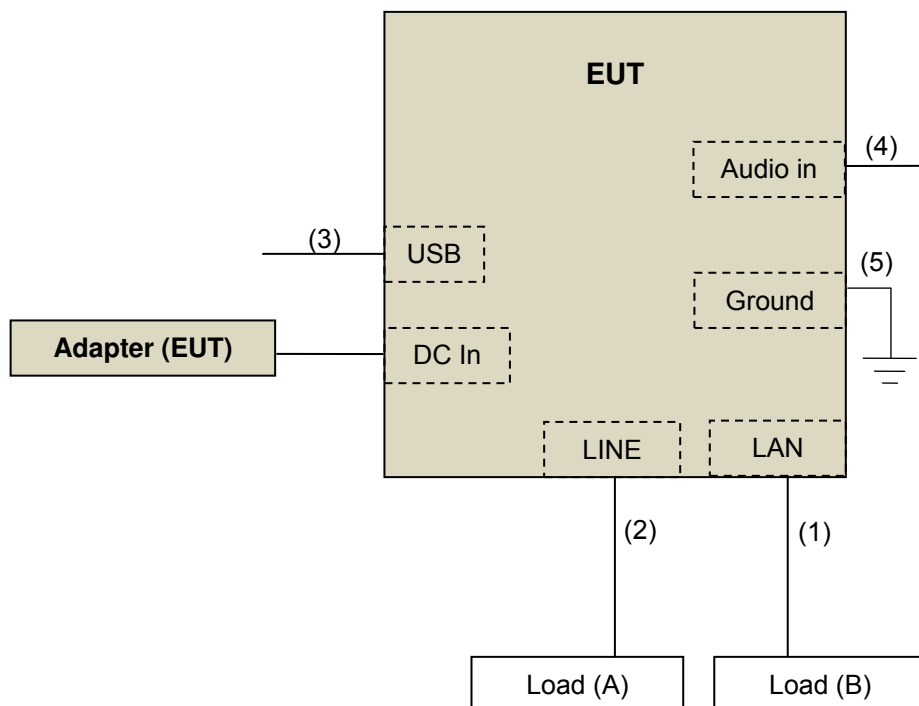
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Load	NA	NA	NA	NA	-
B.	Load	NA	NA	NA	NA	-

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

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	LAN cable	1	5	N	0	Cat5e
2.	RJ11 cable	1	1.8	N	0	Accessory of the EUT
3.	USB cable	1	1.5	Y	0	Connected with EUT
4.	Audio cable	1	1.8	N	0	Accessory of the EUT
5.	Ground cable	1	1	N	0	Accessory of the EUT

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 (15.247)
558074 D01 DTS Meas Guidance v03r03
662911 D01 Multiple Transmitter Output v02r01
ANSI C63.10-2009

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

NOTE: The EUT has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power:

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESIB7	100187	Apr. 10, 2015	Apr. 09, 2016
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100041	Sep. 02, 2015	Sep. 01, 2016
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	Feb. 05, 2015	Feb. 04, 2016
HORN Antenna SCHWARZBECK	9120D	209	Feb. 09, 2015	Feb. 08, 2016
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Feb. 09, 2015	Feb. 08, 2016
Preamplifier Agilent	8447D	2944A10738	Oct.18, 2015	Oct. 17, 2016
Preamplifier Agilent	8449B	3008A01964	Aug. 22, 2015	Aug. 21, 2016
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH3-03(214 378)	Aug. 22, 2015	Aug. 21, 2016
RF signal cable HUBER+SUHNER	SUCOFLEX 106	Cable-CH3-03(309 224+12738)	Aug. 22, 2015	Aug. 21, 2016
Software BV ADT	ADT_Radiated_ V7.6.15.9.4	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA	NA
Antenna Tower Controller BV ADT	AT100	AT93021702	NA	NA
Turn Table BV ADT	TT100	TT93021702	NA	NA
Turn Table Controller BV ADT	SC100	SC93021702	NA	NA
Turn Table Controller BV ADT	SC100	SC93021705	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 HwaYa Chamber 3.

3. The horn antenna and preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.

4. The FCC Site Registration No. is 988962.

5. The IC Site Registration No. is IC 7450F-3.

4.1.3 Test Procedures

- a. The EUT was placed on the top of a rotating table 0.8 meters 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:

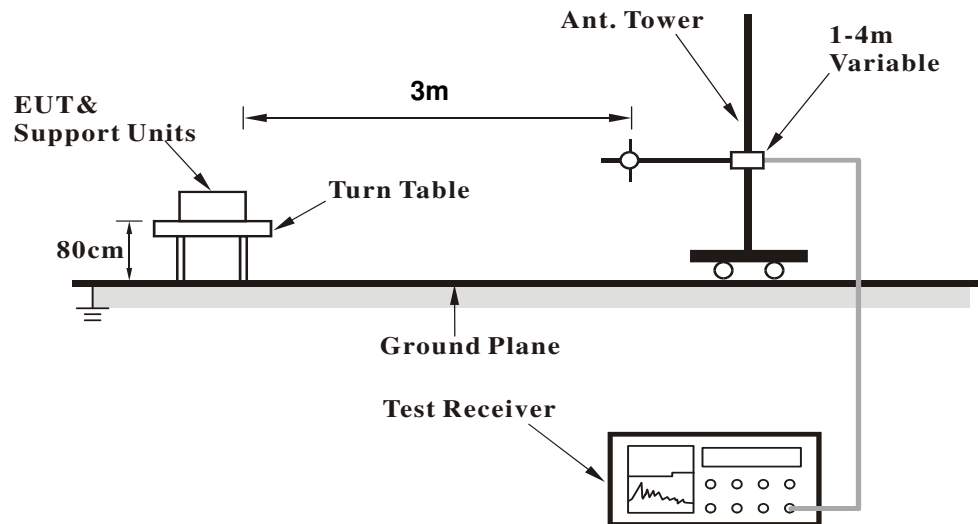
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. 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

<Frequency Range below 1GHz>



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

4.1.6 EUT Operating Conditions

- Placed the EUT on a testing table.
- Set the EUT under transmission condition continuously at specific channel frequency.
- The necessary accessories enable the system in full functions.

4.1.7 Test Results

Below 1GHz Worst-Case Data

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
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	131.00	34.2 QP	43.5	-9.3	2.00 H	84	49.80	-15.60
2	304.04	28.7 QP	46.0	-17.3	1.01 H	73	41.10	-12.40
3	442.09	28.2 QP	46.0	-17.8	1.01 H	17	37.70	-9.50
4	589.86	31.2 QP	46.0	-14.8	1.51 H	205	37.50	-6.30
5	786.23	35.8 QP	46.0	-10.2	1.01 H	202	38.20	-2.40
6	928.16	39.0 QP	46.0	-7.0	1.51 H	103	39.00	0.00
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
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	70.73	35.1 QP	40.0	-4.9	1.99 V	278	51.40	-16.30
2	131.00	34.3 QP	43.5	-9.2	1.49 V	18	49.90	-15.60
3	533.47	32.4 QP	46.0	-13.6	1.00 V	105	40.30	-7.90
4	589.86	33.2 QP	46.0	-12.8	1.00 V	168	39.50	-6.30
5	875.67	39.7 QP	46.0	-6.3	1.00 V	112	40.60	-0.90
6	941.77	39.3 QP	46.0	-6.7	1.00 V	280	39.10	0.20

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

Channel	Channel 25	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz	Test Mode	A

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
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	131.00	33.6 QP	43.5	-9.9	1.49 H	79	49.20	-15.60
2	304.04	28.4 QP	46.0	-17.6	1.00 H	91	40.80	-12.40
3	335.15	27.0 QP	46.0	-19.0	1.00 H	180	38.80	-11.80
4	442.09	27.5 QP	46.0	-18.5	1.00 H	2	37.00	-9.50
5	589.86	30.9 QP	46.0	-15.1	1.49 H	199	37.20	-6.30
6	786.23	35.2 QP	46.0	-10.8	1.00 H	211	37.60	-2.40
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
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	68.79	29.0 QP	40.0	-11.0	2.00 V	272	45.00	-16.00
2	131.00	33.9 QP	43.5	-9.6	1.00 V	151	49.50	-15.60
3	335.15	25.0 QP	46.0	-21.0	1.51 V	87	36.80	-11.80
4	533.47	32.6 QP	46.0	-13.4	1.00 V	109	40.50	-7.90
5	729.84	32.1 QP	46.0	-13.9	1.00 V	128	35.70	-3.60
6	937.88	42.1 QP	46.0	-3.9	1.00 V	244	42.10	0.00

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

Channel	Channel 50	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz	Test Mode	A

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
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	123.23	35.3 QP	43.5	-8.2	1.50 H	91	51.30	-16.00
2	304.04	28.2 QP	46.0	-17.8	1.00 H	58	40.60	-12.40
3	442.09	27.8 QP	46.0	-18.2	1.00 H	354	37.30	-9.50
4	696.79	32.2 QP	46.0	-13.8	1.00 H	153	36.50	-4.30
5	786.23	36.0 QP	46.0	-10.0	1.00 H	145	38.40	-2.40
6	906.77	41.6 QP	46.0	-4.4	1.50 H	6	42.00	-0.40
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
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	61.01	30.0 QP	40.0	-10.0	1.01 V	205	45.20	-15.20
2	131.00	34.1 QP	43.5	-9.4	1.01 V	174	49.70	-15.60
3	335.15	26.6 QP	46.0	-19.4	1.50 V	126	38.40	-11.80
4	533.47	32.3 QP	46.0	-13.7	1.01 V	110	40.20	-7.90
5	696.79	34.0 QP	46.0	-12.0	1.01 V	169	38.30	-4.30
6	895.11	43.8 QP	46.0	-2.2	1.01 V	145	44.60	-0.80

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
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	265.16	27.4 QP	46.0	-18.6	1.50 H	212	41.20	-13.80
2	368.21	31.5 QP	46.0	-14.5	1.00 H	215	42.70	-11.20
3	533.47	34.4 QP	46.0	-11.6	1.50 H	113	42.30	-7.90
4	564.58	33.4 QP	46.0	-12.6	1.50 H	166	40.60	-7.20
5	805.67	35.0 QP	46.0	-11.0	1.00 H	165	37.10	-2.10
6	961.21	35.4 QP	54.0	-18.6	1.50 H	190	34.80	0.60
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
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	39.62	28.5 QP	40.0	-11.5	1.00 V	17	43.70	-15.20
2	66.84	27.0 QP	40.0	-13.0	1.00 V	174	42.70	-15.70
3	368.21	30.7 QP	46.0	-15.3	1.49 V	102	41.90	-11.20
4	500.42	34.4 QP	46.0	-11.6	1.00 V	155	42.80	-8.40
5	533.47	34.4 QP	46.0	-11.6	1.00 V	110	42.30	-7.90
6	654.02	32.9 QP	46.0	-13.1	1.00 V	15	38.10	-5.20
7	786.23	34.1 QP	46.0	-11.9	1.99 V	176	36.50	-2.40
8	968.99	34.6 QP	54.0	-19.4	1.00 V	157	33.80	0.80

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

Channel	Channel 25	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz	Test Mode	B

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
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	261.27	26.3 QP	46.0	-19.7	1.49 H	213	40.30	-14.00
2	368.21	30.8 QP	46.0	-15.2	1.00 H	204	42.00	-11.20
3	533.47	33.5 QP	46.0	-12.5	1.49 H	109	41.40	-7.90
4	786.23	34.0 QP	46.0	-12.0	1.00 H	142	36.40	-2.40
5	817.34	36.1 QP	46.0	-9.9	1.00 H	147	38.00	-1.90
6	965.10	38.0 QP	54.0	-16.0	1.49 H	150	37.30	0.70
7	980.66	40.3 QP	54.0	-13.7	1.49 H	138	39.40	0.90
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
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	39.62	30.0 QP	40.0	-10.0	1.00 V	6	45.20	-15.20
2	368.21	29.6 QP	46.0	-16.4	1.50 V	100	40.80	-11.20
3	533.47	32.3 QP	46.0	-13.7	1.00 V	104	40.20	-7.90
4	589.86	31.1 QP	46.0	-14.9	1.50 V	199	37.40	-6.30
5	786.23	33.6 QP	46.0	-12.4	1.50 V	350	36.00	-2.40
6	879.55	37.9 QP	46.0	-8.1	1.00 V	278	38.80	-0.90
7	972.88	36.3 QP	54.0	-17.7	1.00 V	159	35.40	0.90

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

Channel	Channel 50	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz	Test Mode	B

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
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	368.21	30.7 QP	46.0	-15.3	1.00 H	219	41.90	-11.20
2	533.47	34.2 QP	46.0	-11.8	1.50 H	117	42.10	-7.90
3	729.84	39.2 QP	46.0	-6.8	1.99 H	353	42.80	-3.60
4	829.00	35.6 QP	46.0	-10.4	1.00 H	161	37.30	-1.70
5	895.11	41.6 QP	46.0	-4.4	1.50 H	195	42.40	-0.80
6	968.99	38.8 QP	54.0	-15.2	1.50 H	206	38.00	0.80
7	986.49	40.6 QP	54.0	-13.4	1.50 H	160	39.70	0.90
8	994.27	40.5 QP	54.0	-13.5	1.00 H	196	39.50	1.00
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
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	39.62	28.7 QP	40.0	-11.3	1.00 V	13	43.90	-15.20
2	66.84	27.4 QP	40.0	-12.6	1.49 V	190	43.10	-15.70
3	368.21	29.6 QP	46.0	-16.4	1.49 V	114	40.80	-11.20
4	533.47	32.3 QP	46.0	-13.7	1.00 V	108	40.20	-7.90
5	679.29	32.9 QP	46.0	-13.1	1.49 V	258	37.60	-4.70
6	786.23	33.0 QP	46.0	-13.0	1.49 V	6	35.40	-2.40
7	976.77	37.9 QP	54.0	-16.1	1.00 V	179	37.10	0.80
8	986.49	39.9 QP	54.0	-14.1	1.00 V	175	39.00	0.90

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

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.	Date Of Calibration	Due Date Of Calibration
Test Receiver ROHDE & SCHWARZ	ESCS 30	100288	Apr. 27, 2015	Apr. 26, 2016
RF signal cable (with 10dB PAD) Woken	5D-FB	Cable-cond2-01	Dec. 26, 2014	Dec. 25, 2015
LISN ROHDE & SCHWARZ (EUT)	ESH2-Z5	100100	Dec. 30, 2014	Dec. 29, 2015
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100312	Jul. 21, 2015	Jul. 20, 2016
Software ADT	BV ADT_Conc_ V7.3.7.3	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 HwaYa Shielded Room 2.

3. The VCCI Site Registration No. is C-2047.

4.2.3 Test Procedures

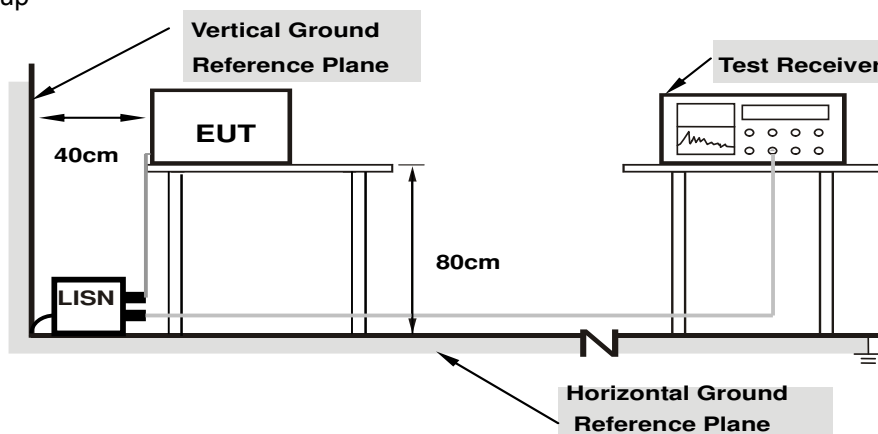
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance 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 4.1.6.

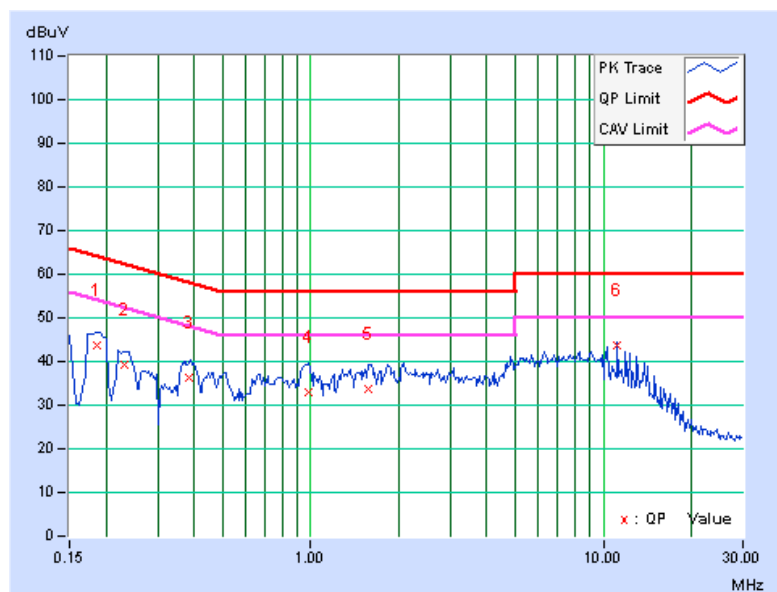
4.2.7 Test Results

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Channel	Channel 1	Test Mode	A

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18516	9.94	33.83	23.54	43.77	33.48	64.25	54.25	-20.48	-20.77
2	0.23203	9.95	29.18	17.81	39.13	27.76	62.38	52.38	-23.25	-24.62
3	0.38319	9.95	26.27	15.09	36.22	25.04	58.21	48.21	-21.99	-23.17
4	0.98203	10.06	22.73	14.55	32.79	24.61	56.00	46.00	-23.21	-21.39
5	1.58203	10.12	23.73	15.44	33.85	25.56	56.00	46.00	-22.15	-20.44
6	11.11854	10.45	33.24	31.96	43.69	42.41	60.00	50.00	-16.31	-7.59

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.

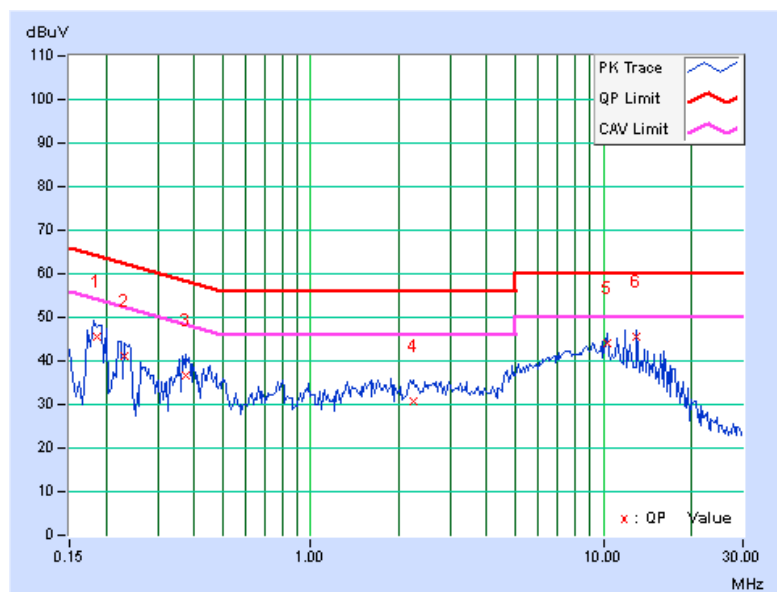


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Channel	Channel 1	Test Mode	A

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18507	9.96	35.49	22.71	45.45	32.67	64.25	54.25	-18.80	-21.58
2	0.23058	9.97	31.15	16.66	41.12	26.63	62.43	52.43	-21.31	-25.80
3	0.37656	10.00	26.76	14.06	36.76	24.06	58.35	48.35	-21.60	-24.30
4	2.24219	10.21	20.50	12.88	30.71	23.09	56.00	46.00	-25.29	-22.91
5	10.35156	10.51	33.68	30.56	44.19	41.07	60.00	50.00	-15.81	-8.93
6	13.03778	10.60	34.84	32.83	45.44	43.43	60.00	50.00	-14.56	-6.57

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.

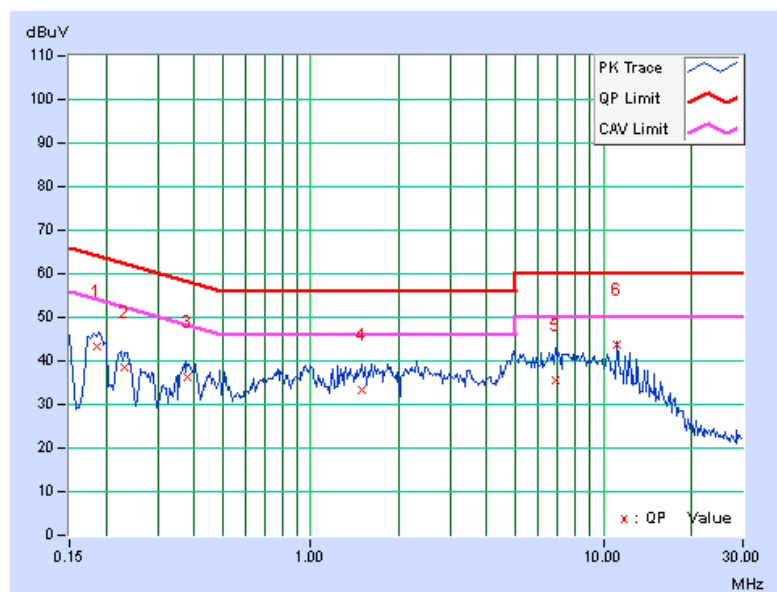


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Channel	Channel 25	Test Mode	A

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18524	9.94	33.48	23.27	43.42	33.21	64.25	54.25	-20.82	-21.03
2	0.23185	9.95	28.70	17.63	38.65	27.58	62.38	52.38	-23.74	-24.81
3	0.37804	9.95	26.18	15.79	36.13	25.74	58.32	48.32	-22.19	-22.58
4	1.48828	10.11	23.07	15.11	33.18	25.22	56.00	46.00	-22.82	-20.78
5	6.89063	10.35	25.39	19.58	35.74	29.93	60.00	50.00	-24.26	-20.07
6	11.12118	10.45	33.20	31.94	43.65	42.39	60.00	50.00	-16.35	-7.61

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.

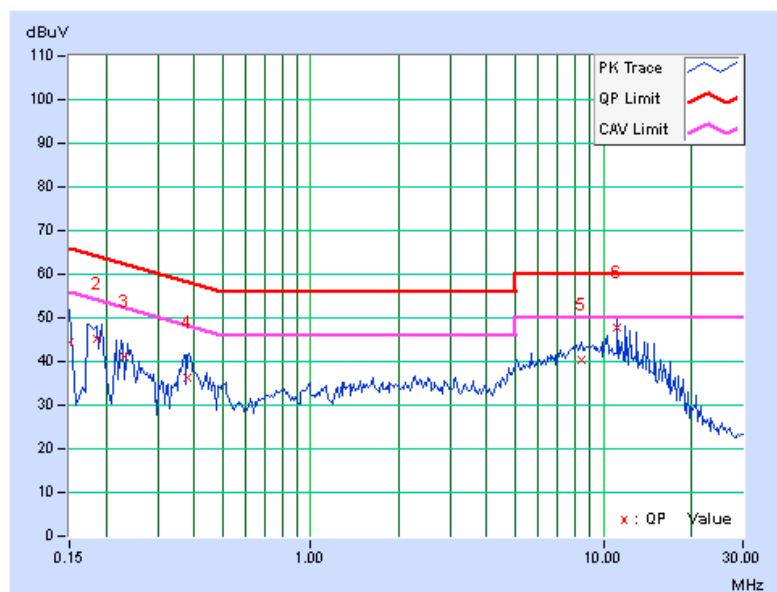


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Channel	Channel 25	Test Mode	A

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.95	34.48	14.85	44.43	24.80	66.00	56.00	-21.57	-31.20
2	0.18516	9.96	35.37	22.39	45.33	32.35	64.25	54.25	-18.92	-21.90
3	0.23058	9.97	31.03	16.62	41.00	26.59	62.43	52.43	-21.43	-25.84
4	0.37928	10.00	26.37	13.46	36.37	23.46	58.30	48.30	-21.93	-24.84
5	8.43750	10.45	30.04	24.59	40.49	35.04	60.00	50.00	-19.51	-14.96
6	11.12109	10.54	37.18	35.47	47.72	46.01	60.00	50.00	-12.28	-3.99

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.

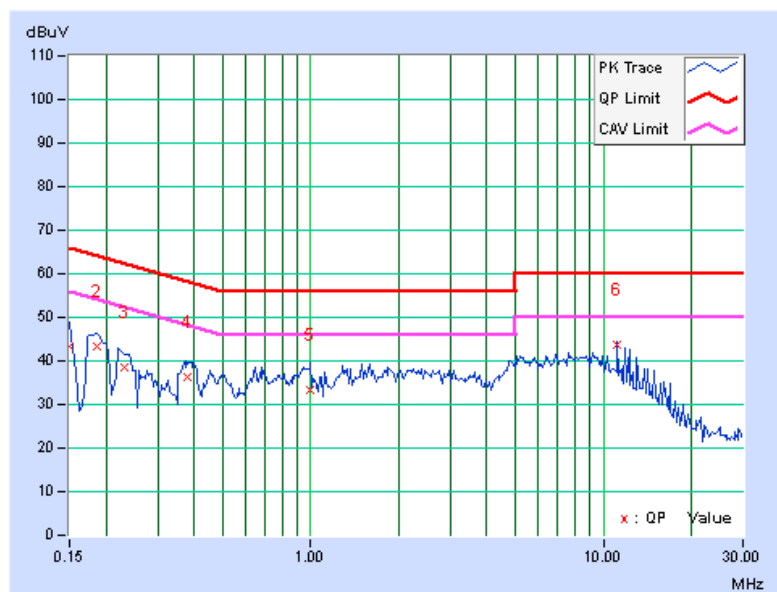


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Channel	Channel 50	Test Mode	A

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.94	33.36	19.18	43.30	29.12	66.00	56.00	-22.70	-26.88
2	0.18516	9.94	33.28	23.19	43.22	33.13	64.25	54.25	-21.03	-21.12
3	0.23048	9.95	28.55	17.49	38.50	27.44	62.43	52.43	-23.94	-25.00
4	0.38029	9.95	26.29	15.58	36.24	25.53	58.27	48.27	-22.03	-22.74
5	0.99766	10.07	23.13	14.95	33.20	25.02	56.00	46.00	-22.80	-20.98
6	11.12109	10.45	33.30	32.06	43.75	42.51	60.00	50.00	-16.25	-7.49

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.

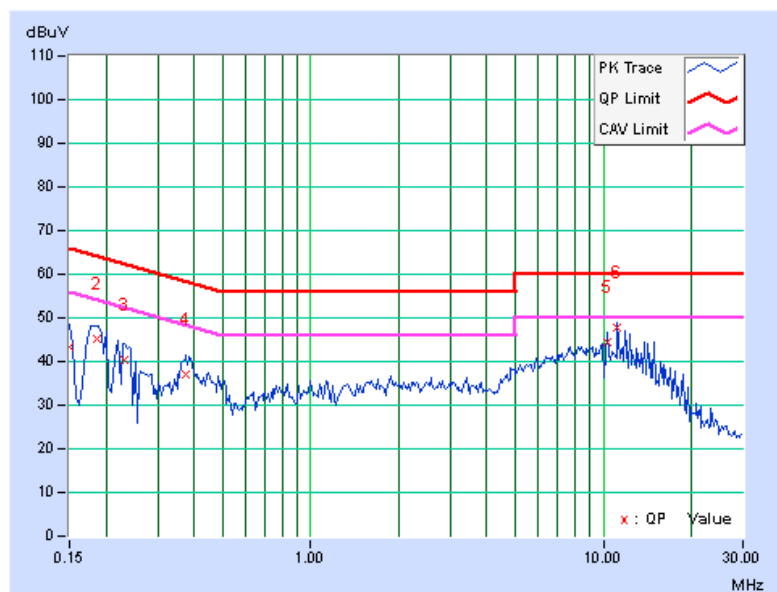


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Channel	Channel 50	Test Mode	A

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.95	33.36	15.96	43.31	25.91	66.00	56.00	-22.69	-30.09
2	0.18651	9.96	35.17	21.90	45.13	31.86	64.19	54.19	-19.06	-22.33
3	0.23203	9.97	30.57	16.40	40.54	26.37	62.38	52.38	-21.84	-26.01
4	0.37656	10.00	26.98	14.24	36.98	24.24	58.35	48.35	-21.38	-24.12
5	10.35411	10.51	33.89	30.98	44.40	41.49	60.00	50.00	-15.60	-8.51
6	11.12245	10.54	37.06	35.27	47.60	45.81	60.00	50.00	-12.40	-4.19

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.

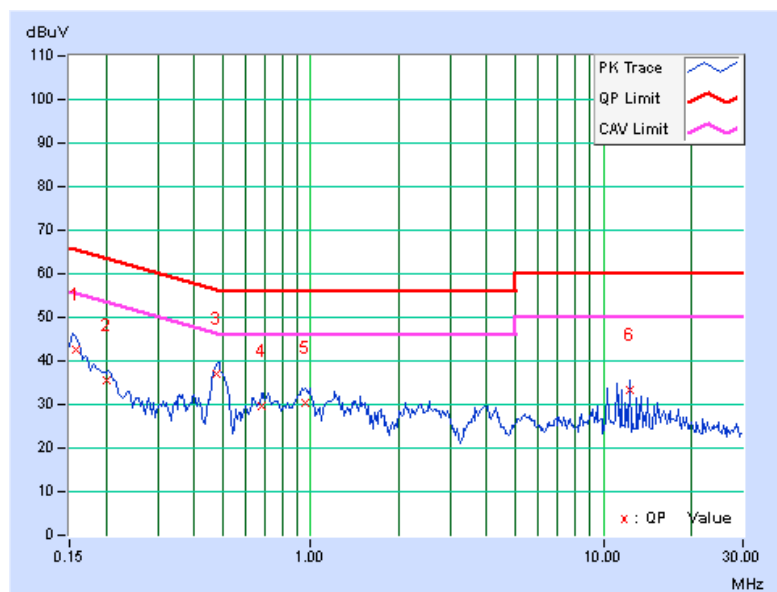


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Channel	Channel 1	Test Mode	B

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15823	9.94	32.70	23.20	42.64	33.14	65.56	55.56	-22.92	-22.42
2	0.20031	9.95	25.62	16.33	35.57	26.28	63.60	53.60	-28.03	-27.32
3	0.47940	9.97	26.97	23.21	36.94	33.18	56.35	46.35	-19.41	-13.17
4	0.68134	10.01	19.67	15.32	29.68	25.33	56.00	46.00	-26.32	-20.67
5	0.95939	10.06	20.49	13.94	30.55	24.00	56.00	46.00	-25.45	-22.00
6	12.26953	10.48	22.80	22.08	33.28	32.56	60.00	50.00	-26.72	-17.44

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.

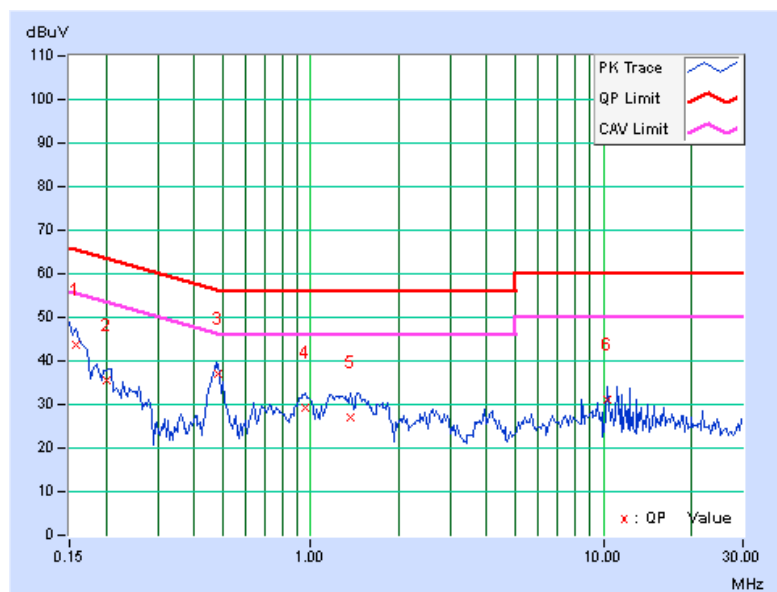


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Channel	Channel 1	Test Mode	B

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15813	9.95	33.78	24.23	43.73	34.18	65.56	55.56	-21.83	-21.38
2	0.20168	9.97	25.66	14.15	35.63	24.12	63.54	53.54	-27.91	-29.42
3	0.48058	10.01	26.95	23.23	36.96	33.24	56.33	46.33	-19.37	-13.09
4	0.96250	10.07	19.34	12.89	29.41	22.96	56.00	46.00	-26.59	-23.04
5	1.36719	10.12	16.83	9.93	26.95	20.05	56.00	46.00	-29.05	-25.95
6	10.35156	10.51	20.59	19.91	31.10	30.42	60.00	50.00	-28.90	-19.58

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.

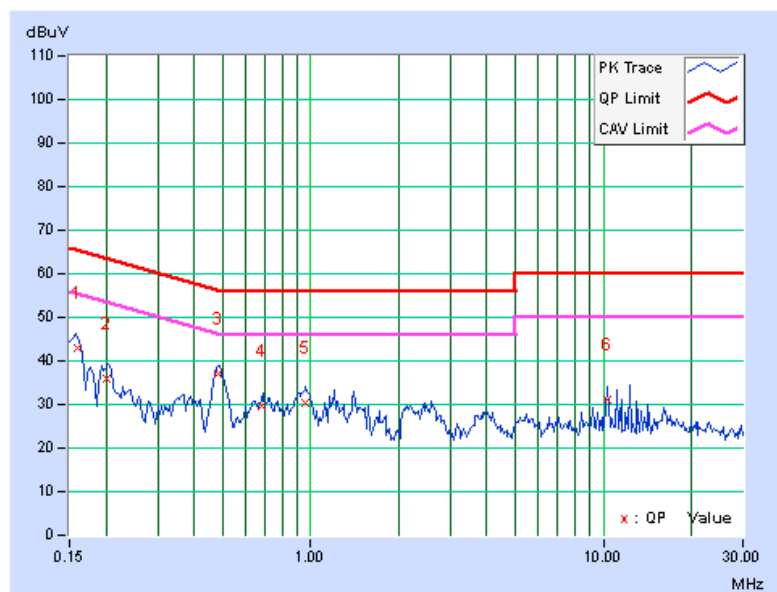


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Channel	Channel 25	Test Mode	B

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15909	9.94	32.98	23.34	42.92	33.28	65.51	55.51	-22.59	-22.23
2	0.20072	9.95	25.94	16.25	35.89	26.20	63.58	53.58	-27.69	-27.38
3	0.48085	9.97	27.03	23.29	37.00	33.26	56.32	46.32	-19.33	-13.07
4	0.68261	10.01	19.69	15.24	29.70	25.25	56.00	46.00	-26.30	-20.75
5	0.95859	10.06	20.41	13.88	30.47	23.94	56.00	46.00	-25.53	-22.06
6	10.35021	10.44	20.67	20.19	31.11	30.63	60.00	50.00	-28.89	-19.37

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.

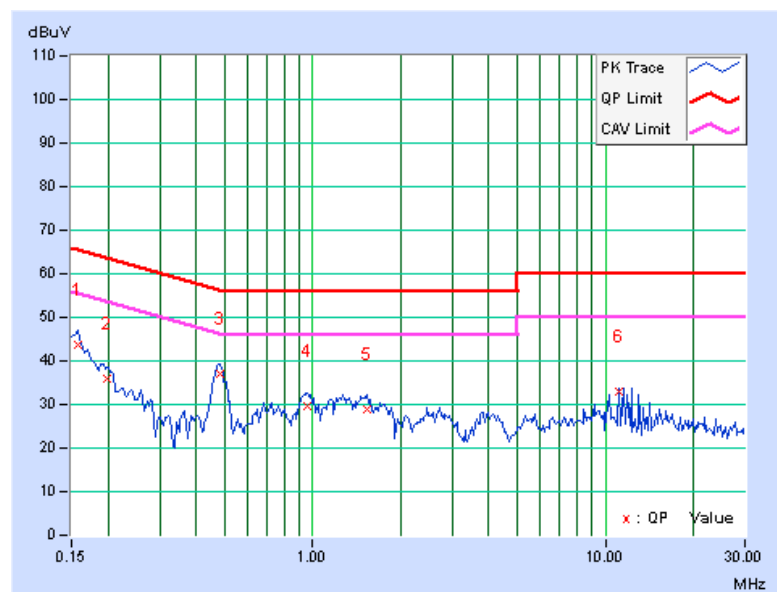


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Channel	Channel 25	Test Mode	B

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15781	9.95	33.73	24.11	43.68	34.06	65.58	55.58	-21.90	-21.52
2	0.19806	9.97	25.82	13.70	35.79	23.67	63.69	53.69	-27.91	-30.03
3	0.48068	10.01	26.99	23.17	37.00	33.18	56.33	46.33	-19.33	-13.15
4	0.95695	10.07	19.39	12.31	29.46	22.38	56.00	46.00	-26.54	-23.62
5	1.53516	10.14	18.90	9.60	29.04	19.74	56.00	46.00	-26.96	-26.26
6	11.11719	10.53	22.59	22.28	33.12	32.81	60.00	50.00	-26.88	-17.19

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.

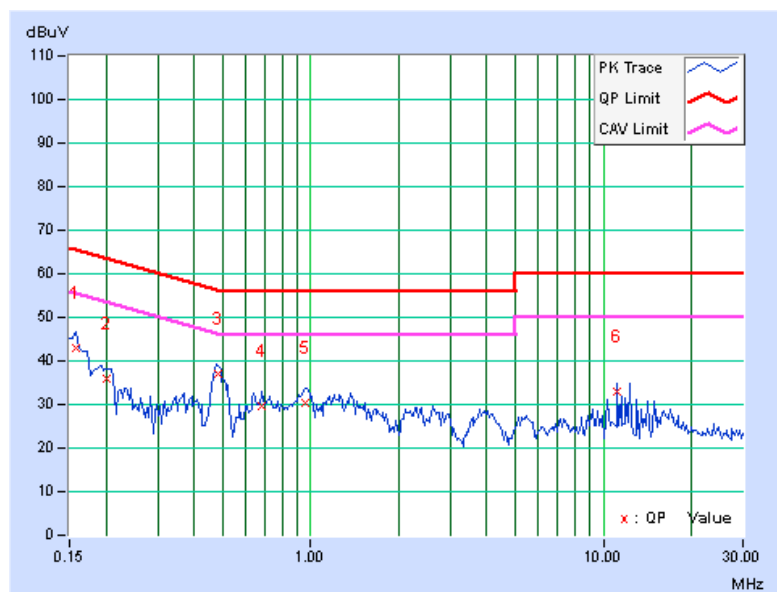


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Channel	Channel 50	Test Mode	B

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
	[MHz]		[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15781	9.94	33.06	22.72	43.00	32.66	65.58	55.58	-22.58	-22.92
2	0.20060	9.95	26.09	16.29	36.04	26.24	63.59	53.59	-27.55	-27.35
3	0.48068	9.97	27.07	23.38	37.04	33.35	56.33	46.33	-19.29	-12.98
4	0.68125	10.01	19.59	15.49	29.60	25.50	56.00	46.00	-26.40	-20.50
5	0.96250	10.06	20.45	14.45	30.51	24.51	56.00	46.00	-25.49	-21.49
6	11.11472	10.45	22.60	22.37	33.05	32.82	60.00	50.00	-26.95	-17.18

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.

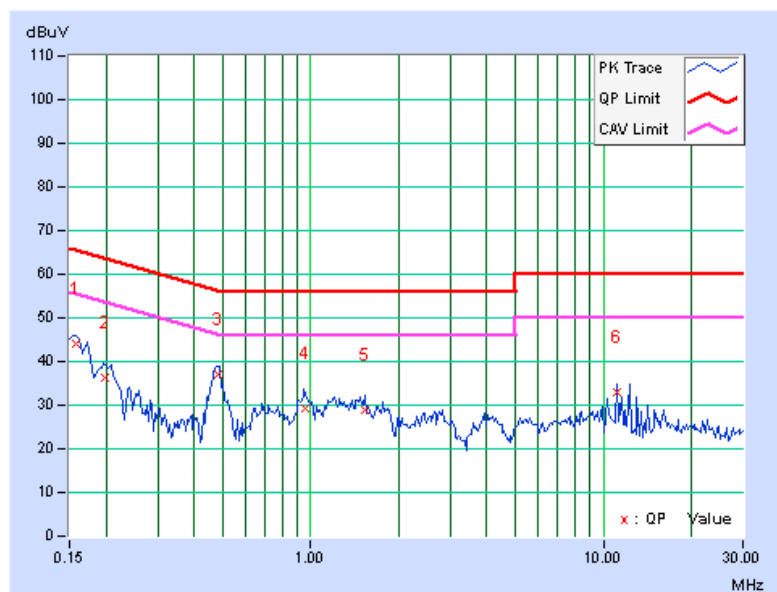


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Channel	Channel 50	Test Mode	B

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15781	9.95	33.96	23.65	43.91	33.60	65.58	55.58	-21.67	-21.98
2	0.19942	9.97	26.43	14.25	36.40	24.22	63.63	53.63	-27.24	-29.42
3	0.48068	10.01	26.97	23.36	36.98	33.37	56.33	46.33	-19.35	-12.96
4	0.96086	10.07	19.24	13.11	29.31	23.18	56.00	46.00	-26.69	-22.82
5	1.52734	10.14	18.79	11.51	28.93	21.65	56.00	46.00	-27.07	-24.35
6	11.11328	10.53	22.36	22.21	32.89	32.74	60.00	50.00	-27.11	-17.26

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.



5 Pictures of Test Arrangements

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

Appendix – Information on 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 accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-5935343

Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

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

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