

FCC Test Report

Report No.: RF200131C05 R1

FCC ID: K7SWIZ001

Test Model: WIZ001, WIZ004 (refer to item 3.1 for more details)

Received Date: Jan. 31, 2020

Test Date: Feb. 07 ~ Feb. 27, 2020

Issued Date: May 14, 2020

Applicant: Belkin International, Inc.

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FCC Registration / 788550 / TW0003
Designation Number:



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Release Control Record

Issue No.	Description	Date Issued
RF200131C05	Original release	Mar. 05, 2020
RF200131C05 R1	Revised product name	May 14, 2020

1 Certificate of Conformity

Product: BOOST↑CHARGE™ 3-1 Wireless Charger for iPhone + Apple Watch + AirPods,
BOOST↑CHARGE™ 3-1 Wireless Charger Special Edition for iPhone + Apple Watch
+ AirPods (refer to item 3.1 for more details)

Brand: belkin

Test Model: WIZ001, WIZ004 (refer to item 3.1 for more details)

Sample Status: Engineering sample

Applicant: Belkin International, Inc.

Test Date: Feb. 07 ~ Feb. 27, 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 : Celine Chou , **Date:** May 14, 2020
Celine Chou / Senior Specialist

Approved by : Bruce Chen , **Date:** May 14, 2020
Bruce Chen / Senior 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 -9.48dB at 0.43543MHz.
15.209	Radiated Emission Test	Pass	Meet the requirement of limit. Minimum passing margin is -6.30dB at 536.1400MHz

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) (±)
Conducted Emissions at mains ports	150kHz ~ 30MHz	2.94 dB
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.04 dB
	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	BOOST↑CHARGE™ 3-1 Wireless Charger for iPhone + Apple Watch + AirPods, BOOST↑CHARGE™ 3-1 Wireless Charger Special Edition for iPhone + Apple Watch + AirPods
Brand	belkin
Test Model	WIZ001, WIZ004
Sample Status	Engineering sample
Power Supply Rating	15Vdc (adapter)
Modulation Type	FSK
Operating Frequency	127.8 kHz for iPhone 111-148 kHz for AirPods 326.5 kHz for Apple watch
Antenna Type	Coil antenna
Field Strength	127.8 kHz: 71.06dBuV/m 147.5 kHz: 65.95dBuV/m 326.5 kHz: 41.30dBuV/m
Dimension for iPhone charging coil	19.20cm ² (Length = 48mm, width = 40mm)
Dimension for AirPods charging coil	13.85cm ² (diameter = 42mm)
Dimension for Apple watch inductive coil	3.80cm ² (diameter = 22mm)
Accessory Device	Adapter
Data Cable Supplied	NA
Maximum Power Output for Phone charging coil	10W
Maximum Power Output for AirPods charging coil	5W
Maximum Power Output for Apple watch charging coil	5W

Note:

1. The following models are provided to this EUT.

Brand	Model	Difference
belkin	WIZ001	1. oval-shaped 2. plastics base and stem 3. BOOST↑CHARGE™ 3-1 Wireless Charger for iPhone + Apple Watch + AirPods
	WIZ004	1. full-moon shaped 2. metal base and stem 3. BOOST↑CHARGE™ 3-1 Wireless Charger Special Edition for iPhone + Apple Watch + AirPods

* After pre-test, the model of the WIZ004 was chosen for final test.

2. The EUT uses following adapter.

Brand	belkin
Model	2ADH023H NJ
Input Power	100-240Vac, 50/60Hz, 0.7A Max
Output Power	15Vdc, 1.5A
Power Line	1.5m DC cable without core attached on adapter

3. 326.5kHz mode is for Apple watch charging. Metal band is the worst case for final tests after pretesting plastic band and metal band.

3.2 Description of Test Modes

3 channels are provided to this EUT

Channel	Freq. (kHz)
1	127.8
2	147.5
3	326.5

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT CONFIGURE MODE	APPLICABLE TO		DESCRIPTION
	RE<1G	PLC	
A	√	√	Charging Mode (EUT wireless charging to iPhone)
B	√	√	Charging Mode (EUT wireless charging to AirPods)
C	√	√	Charging Mode (EUT wireless charging to Apple Watch)
D	√	√	Charging Mode (EUT wireless charging to iPhone, Apple Watch and AirPods)
E	√	√	Standby Mode

Where **RE<1G**: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission

Note: The EUT is designed to be positioned on the **X-plane** only.

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
A	1, 2, 3	1
B	1, 2, 3	2
C	1, 2, 3	3
D	1, 2, 3	1, 2, 3
E	1, 2, 3	1, 2, 3

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
A	1, 2, 3	1
B	1, 2, 3	2
C	1, 2, 3	3
D	1, 2, 3	1, 2, 3
E	1, 2, 3	1, 2, 3

Test Condition:

Applicable To	Environmental Conditions	Input Power	Tested by
RE<1G	23 deg. C, 66% RH	120Vac, 60Hz	Jones Chang Titan Hsu
PLC	23 deg. C, 68% RH	120Vac, 60Hz	Jones Chang

3.3 Description of Support Units

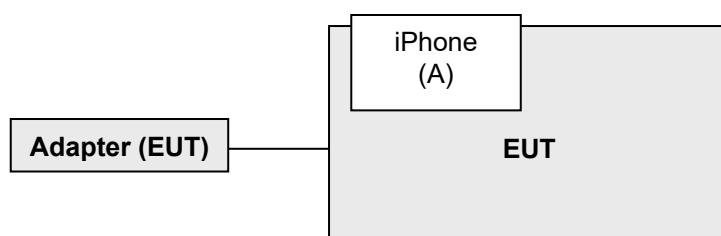
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	iPhone	APPLE	A2215	NA	NA	-
B.	AirPods	APPLE	A2031, A2032, A1938	NA	NA	-
C.	Apple Watch	APPLE	A1977	NA	NA	-

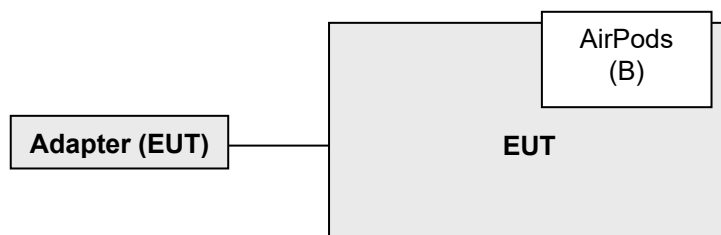
3.3.1 Configuration of System under Test

Charging Mode:

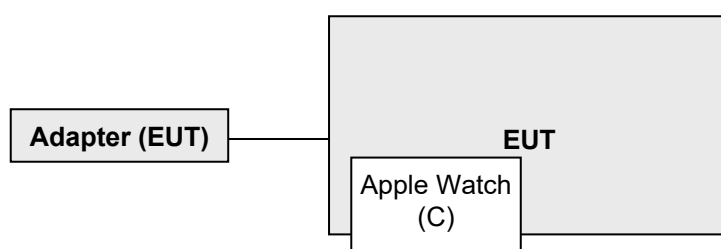
Test Mode A



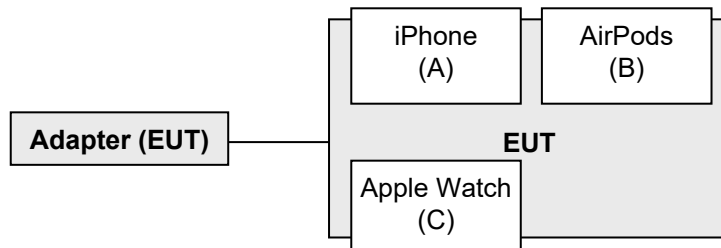
Test Mode B



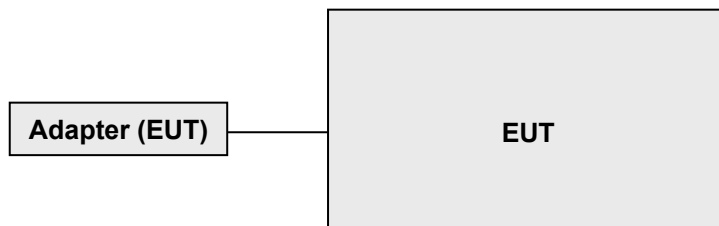
Test Mode C



Test Mode D



Standby Mode:
Test Mode E



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.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESIB7	100187	May 30, 2019	May 29, 2020
BILOG Antenna SCHWARZBECK	VULB9168	9168-171	Nov. 11, 2019	Nov. 10, 2020
HORN Antenna SCHWARZBECK	9120D	209	Nov. 24, 2019	Nov. 23, 2020
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Nov. 24, 2019	Nov. 23, 2020
Loop Antenna TESEQ	HLA 6121	45745	Jul. 01, 2019	Jun. 30, 2020
Preamplifier Agilent (Below 1GHz)	8447D	2944A10738	Aug. 20, 2019	Aug. 19, 2020
Preamplifier Agilent (Above 1GHz)	8449B	3008A02465	Mar. 27, 2019	Mar. 26, 2020
RF Coaxial Cable WOKEN With 5dB PAD	8D-FB	Cable-CH3-01	Aug. 20, 2019	Aug. 19, 2020
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH3-03 (223653/4)	Aug. 20, 2019	Aug. 19, 2020
RF signal cable HUBER+SUHNER& EMCI	SUCOFLEX 104&EMC104-SM-S M-8000	Cable-CH3-03 (309224+170907)	Aug. 20, 2019	Aug. 19, 2020
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	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
Boresight Antenna Fixture	FBA-01	FBA-SIP01	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.

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:

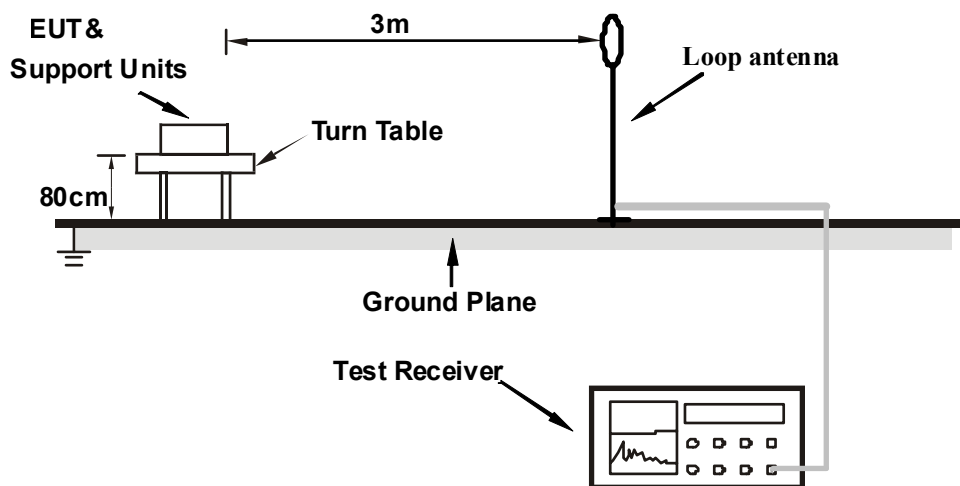
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.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

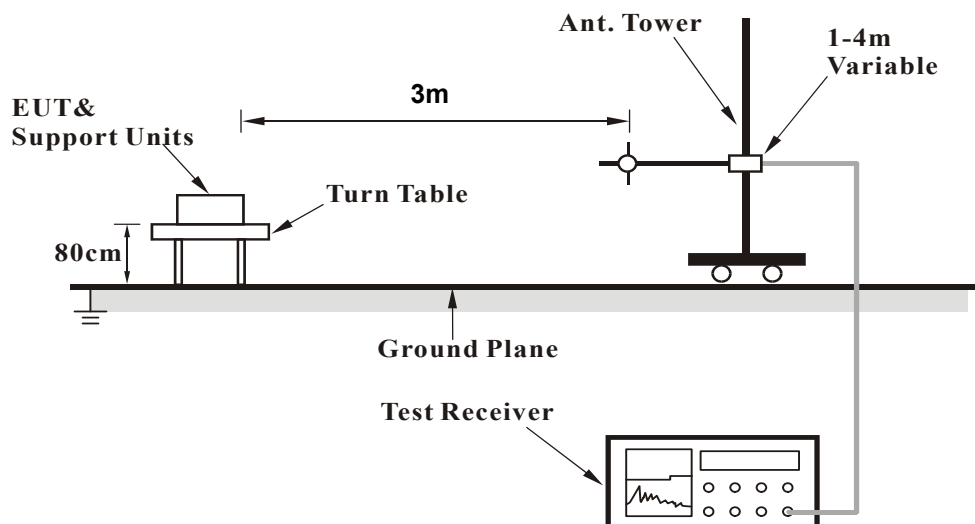
No deviation.

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

Charging Mode:

Test Mode A

- a. The EUT powered by adapter.
- b. Put the iPhone on the EUT (wireless charging) during the test.

Test Mode B

- a. The EUT powered by adapter.
- b. Put the AirPods on the EUT (wireless charging) during the test.

Test Mode C

- c. The EUT powered by adapter.
- d. Put the Apple Watch on the EUT (wireless charging) during the test.

Test Mode D

- a. The EUT powered by adapter.
- b. Put the iPhone, Apple Watch and AirPods on the EUT (wireless charging) during the test.

Standby Mode:

Test Mode E

- a. The EUT powered by adapter.

4.1.7 Test Results

Below 30MHz Data:

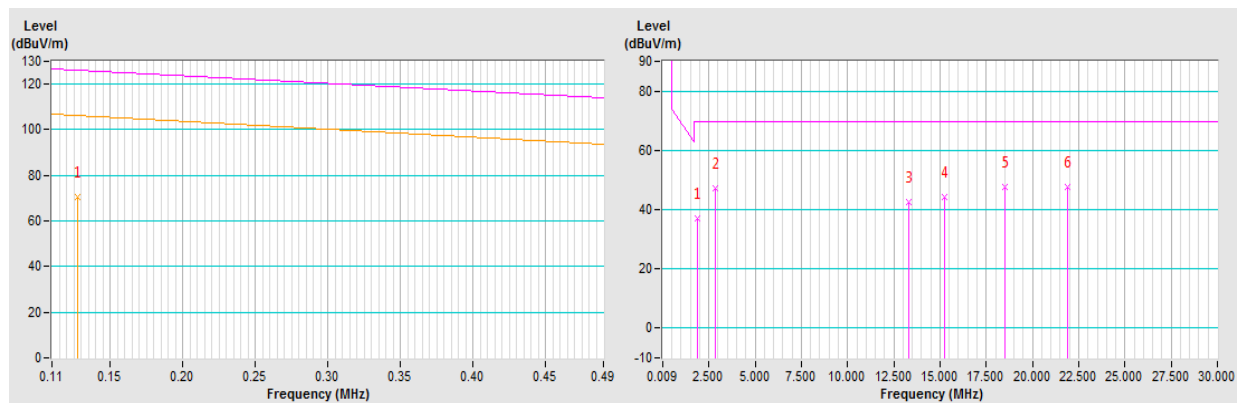
Charging Mode

Channel	TX Channel 1	Detector Function	Average (AV) Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	A		

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	*0.1278	70.71 AV	105.49	-34.78	1.00	219	51.66	19.05
2	1.8800	37.20 QP	69.50	-32.30	1.00	260	17.30	19.90
3	2.8300	47.00 QP	69.50	-22.50	1.00	7	27.10	19.90
4	13.3100	42.50 QP	69.50	-27.00	1.00	63	20.70	21.80
5	15.2200	44.30 QP	69.50	-25.20	1.00	316	22.40	21.90
6	18.5300	47.50 QP	69.50	-22.00	1.00	139	25.50	22.00
7	21.9200	47.70 QP	69.50	-21.80	1.00	30	25.60	22.10

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. Limit @3m=Limit@300m+40log(300 / 3)=Limit@300m+80
8. Limit @3m=Limit@30m+40log(30 / 3)=Limit@30m+40

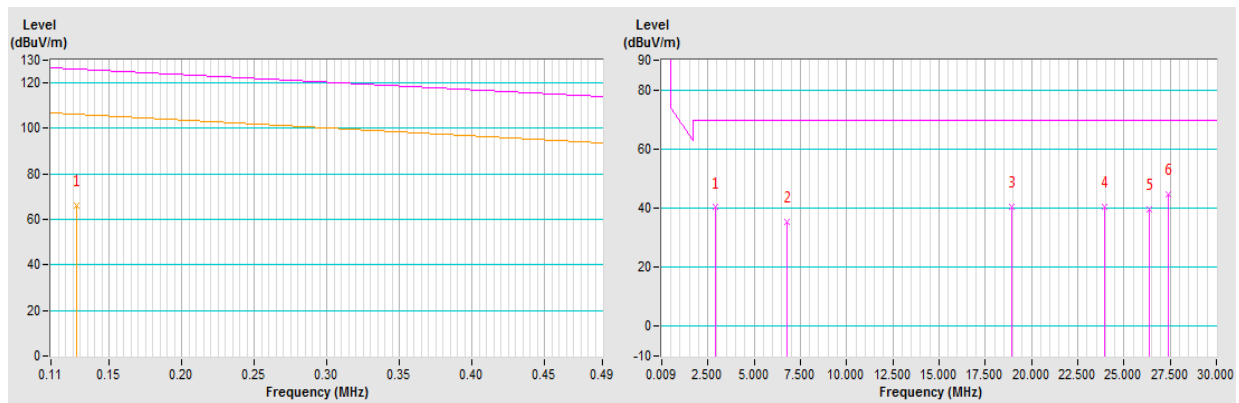


Channel	TX Channel 1	Detector Function	Average (AV) Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	A		

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	*0.1278	65.93 AV	105.49	-39.56	1.00	193	46.88	19.05
2	2.9400	40.20 QP	69.50	-29.30	1.00	91	20.30	19.90
3	6.7900	35.50 QP	69.50	-34.00	1.00	251	14.80	20.70
4	18.9500	40.50 QP	69.50	-29.00	1.00	34	18.50	22.00
5	23.9400	40.30 QP	69.50	-29.20	1.00	163	18.20	22.10
6	26.3500	39.40 QP	69.50	-30.10	1.00	254	17.30	22.10
7	27.4000	44.60 QP	69.50	-24.90	1.00	69	22.40	22.20

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) – 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. Limit @3m=Limit@300m+40log(300 / 3)=Limit@300m+80
8. Limit @3m=Limit@30m+40log(30 / 3)=Limit@30m+40



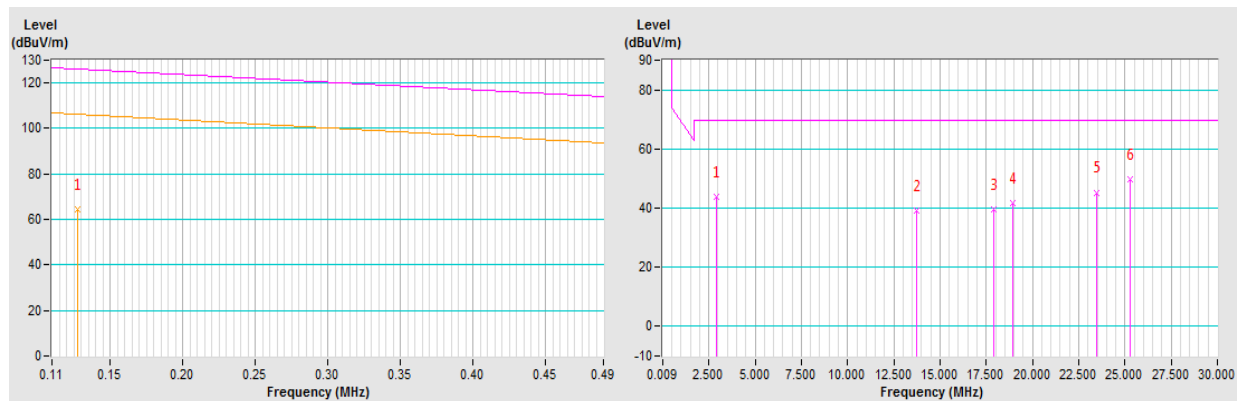
Channel	TX Channel 1	Detector Function	Average (AV) Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	A		

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	*0.1278	64.23 AV	105.49	-41.26	1.00	15	45.18	19.05
2	2.9400	43.90 QP	69.50	-25.60	1.00	205	24.00	19.90
3	13.7100	39.20 QP	69.50	-30.30	1.00	53	17.40	21.80
4	17.8900	39.40 QP	69.50	-30.10	1.00	130	17.40	22.00
5	18.9500	41.50 QP	69.50	-28.00	1.00	134	19.50	22.00
6	23.4600	45.30 QP	69.50	-24.20	1.00	318	23.20	22.10
7	25.2900	49.80 QP	69.50	-19.70	1.00	94	27.70	22.10

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. Limit @3m=Limit@300m+40log(300 / 3)=Limit@300m+80
8. Limit @3m=Limit@30m+40log(30 / 3)=Limit@30m+40

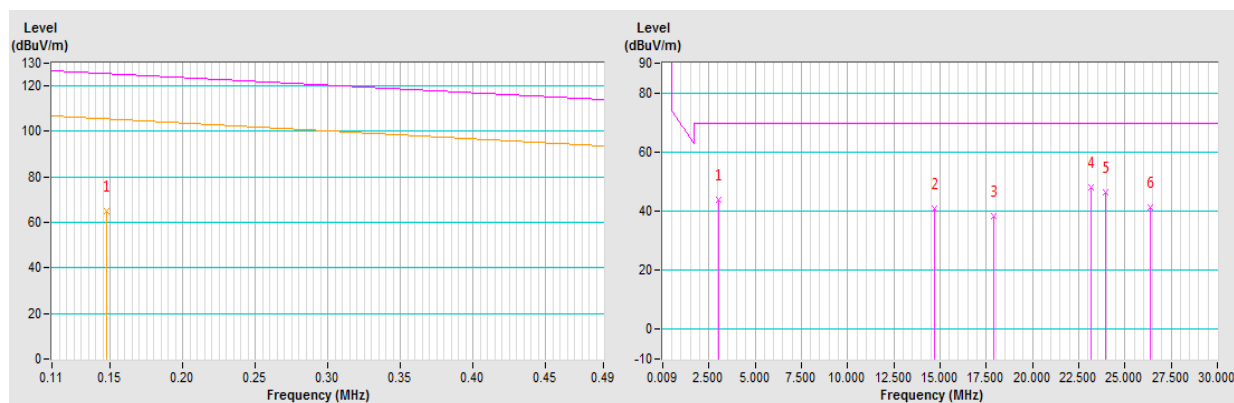


Channel	TX Channel 2	Detector Function	Average (AV) Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	B		

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	*0.1475	65.24 AV	104.25	-39.01	1.00	270	46.11	19.13
2	3.0400	44.00 QP	69.50	-25.50	1.00	312	24.10	19.90
3	14.7200	40.80 QP	69.50	-28.70	1.00	13	18.90	21.90
4	17.8900	38.20 QP	69.50	-31.30	1.00	5	16.20	22.00
5	23.1800	47.90 QP	69.50	-21.60	1.00	310	25.80	22.10
6	23.9400	46.40 QP	69.50	-23.10	1.00	224	24.30	22.10
7	26.3500	41.20 QP	69.50	-28.30	1.00	57	19.10	22.10

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. Limit @3m=Limit@300m+40log(300 / 3)=Limit@300m+80
8. Limit @3m=Limit@30m+40log(30 / 3)=Limit@30m+40

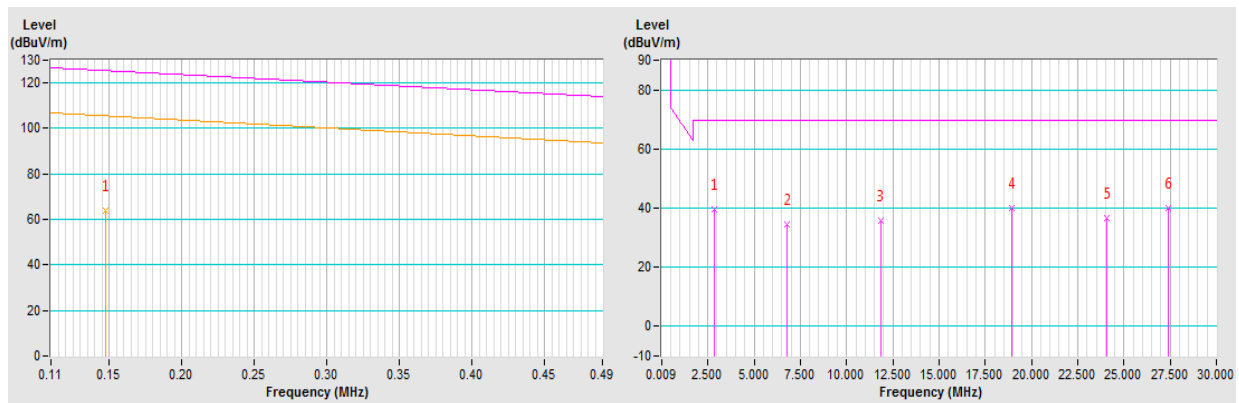


Channel	TX Channel 2	Detector Function	Average (AV) Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	B		

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	*0.1475	63.88 AV	104.25	-40.37	1.00	333	44.75	19.13
2	2.8400	39.50 QP	69.50	-30.00	1.00	119	19.60	19.90
3	6.7900	34.30 QP	69.50	-35.20	1.00	200	13.60	20.70
4	11.8300	35.60 QP	69.50	-33.90	1.00	204	13.90	21.70
5	18.9500	39.80 QP	69.50	-29.70	1.00	82	17.80	22.00
6	24.0900	36.60 QP	69.50	-32.90	1.00	64	14.50	22.10
7	27.4000	39.80 QP	69.50	-29.70	1.00	81	17.60	22.20

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) – 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. Limit @3m=Limit@300m+40log(300 / 3)=Limit@300m+80
8. Limit @3m=Limit@30m+40log(30 / 3)=Limit@30m+40



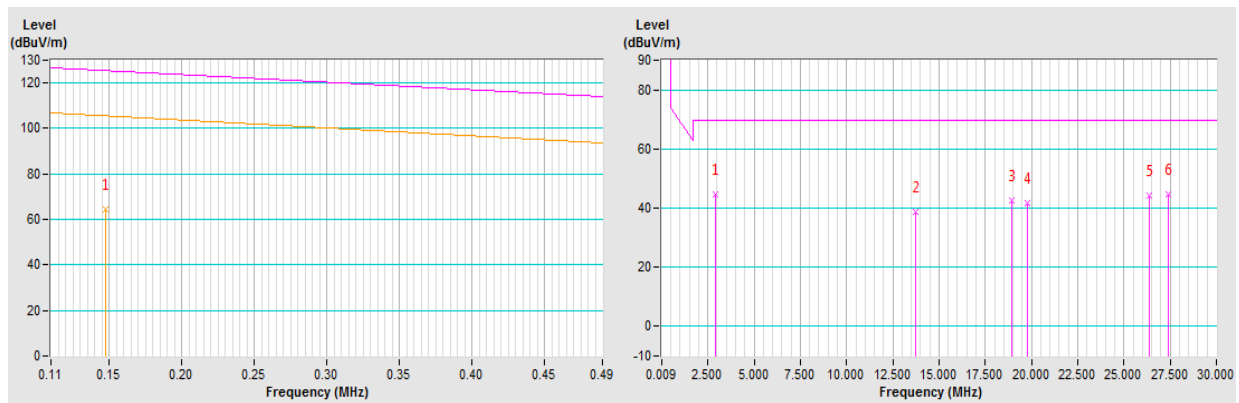
Channel	TX Channel 2	Detector Function	Average (AV) Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	B		

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	*0.1475	64.36 AV	104.25	-39.89	1.00	222	45.23	19.13
2	2.8900	44.70 QP	69.50	-24.80	1.00	108	24.80	19.90
3	13.7100	38.60 QP	69.50	-30.90	1.00	283	16.80	21.80
4	18.9500	42.70 QP	69.50	-26.80	1.00	331	20.70	22.00
5	19.7600	41.80 QP	69.50	-27.70	1.00	133	19.70	22.10
6	26.3500	44.10 QP	69.50	-25.40	1.00	78	22.00	22.10
7	27.4000	44.50 QP	69.50	-25.00	1.00	39	22.30	22.20

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) – 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. Limit @3m=Limit@300m+40log(300 / 3)=Limit@300m+80
8. Limit @3m=Limit@30m+40log(30 / 3)=Limit@30m+40



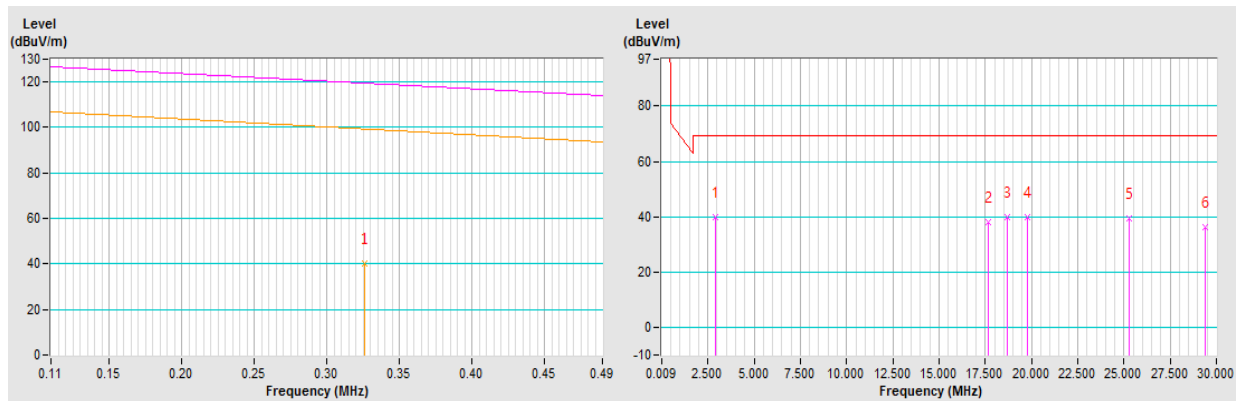
Channel	TX Channel 3	Detector Function	Average (AV) Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	C		

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	*0.3265	40.05 AV	97.33	-57.28	1.00	51	20.30	19.75
2	2.8900	39.70 QP	69.50	-29.80	1.00	33	19.80	19.90
3	17.6500	38.10 QP	69.50	-31.40	1.00	182	16.10	22.00
4	18.7100	40.00 QP	69.50	-29.50	1.00	22	18.00	22.00
5	19.7600	40.00 QP	69.50	-29.50	1.00	319	17.90	22.10
6	25.2900	39.50 QP	69.50	-30.00	1.00	276	17.40	22.10
7	29.3800	36.40 QP	69.50	-33.10	1.00	318	14.20	22.20

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) – 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. Limit @3m=Limit@300m+40log(300 / 3)=Limit@300m+80
8. Limit @3m=Limit@30m+40log(30 / 3)=Limit@30m+40

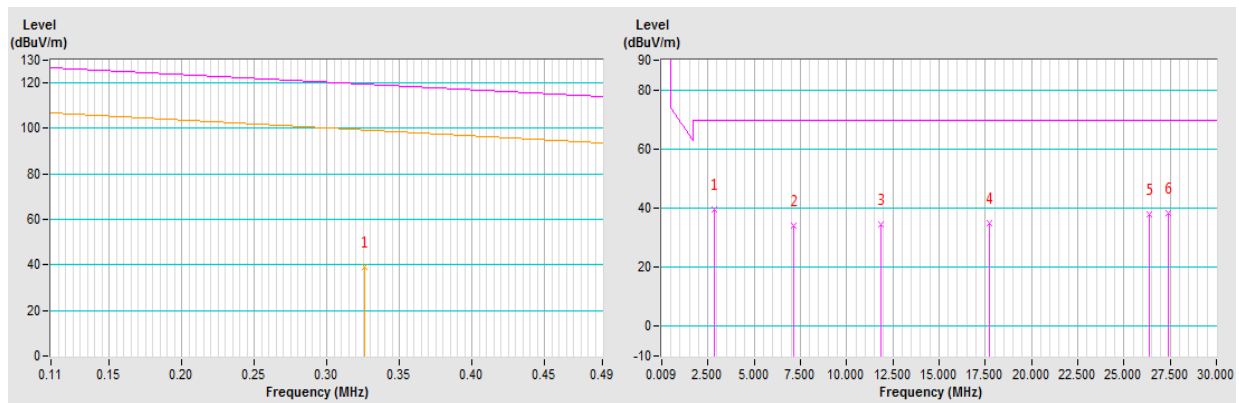


Channel	TX Channel 3	Detector Function	Average (AV) Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	C		

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	*0.3265	39.22 AV	97.33	-58.11	1.00	251	19.47	19.75
2	2.8400	39.50 QP	69.50	-30.00	1.00	156	19.60	19.90
3	7.1200	34.00 QP	69.50	-35.50	1.00	162	13.20	20.80
4	11.8800	34.60 QP	69.50	-34.90	1.00	71	12.90	21.70
5	17.7000	35.10 QP	69.50	-34.40	1.00	244	13.10	22.00
6	26.3500	38.00 QP	69.50	-31.50	1.00	65	15.90	22.10
7	27.4000	38.30 QP	69.50	-31.20	1.00	259	16.10	22.20

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) – 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. Limit @3m=Limit@300m+40log(300 / 3)=Limit@300m+80
8. Limit @3m=Limit@30m+40log(30 / 3)=Limit@30m+40



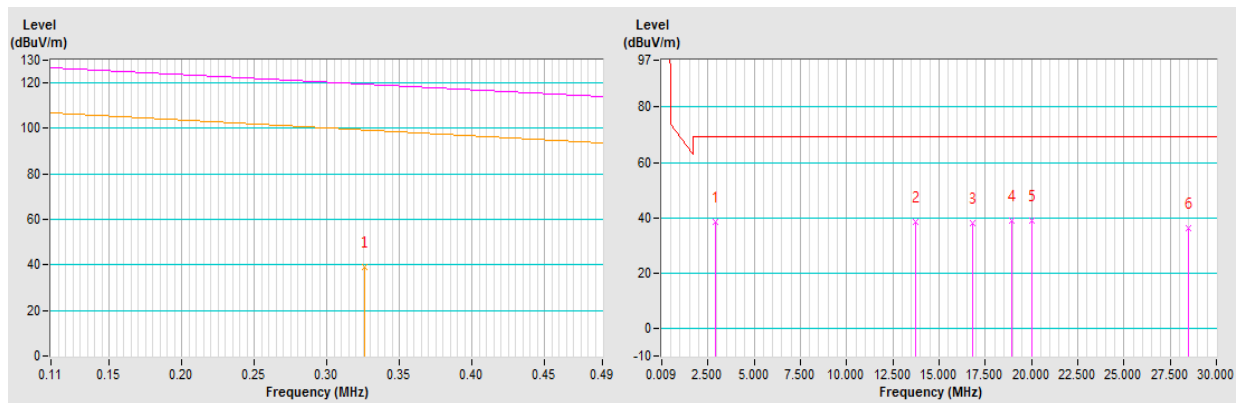
Channel	TX Channel 3	Detector Function	Average (AV) Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	C		

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	*0.3265	39.03 AV	97.33	-58.30	1.00	21	19.28	19.75
2	2.9400	38.60 QP	69.50	-30.90	1.00	266	18.70	19.90
3	13.7100	38.60 QP	69.50	-30.90	1.00	174	16.80	21.80
4	16.8300	38.00 QP	69.50	-31.50	1.00	152	16.00	22.00
5	18.9500	38.80 QP	69.50	-30.70	1.00	87	16.80	22.00
6	20.0000	38.90 QP	69.50	-30.60	1.00	4	16.80	22.10
7	28.4600	36.10 QP	69.50	-33.40	1.00	223	13.90	22.20

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) – 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. Limit @3m=Limit@300m+40log(300 / 3)=Limit@300m+80
8. Limit @3m=Limit@30m+40log(30 / 3)=Limit@30m+40

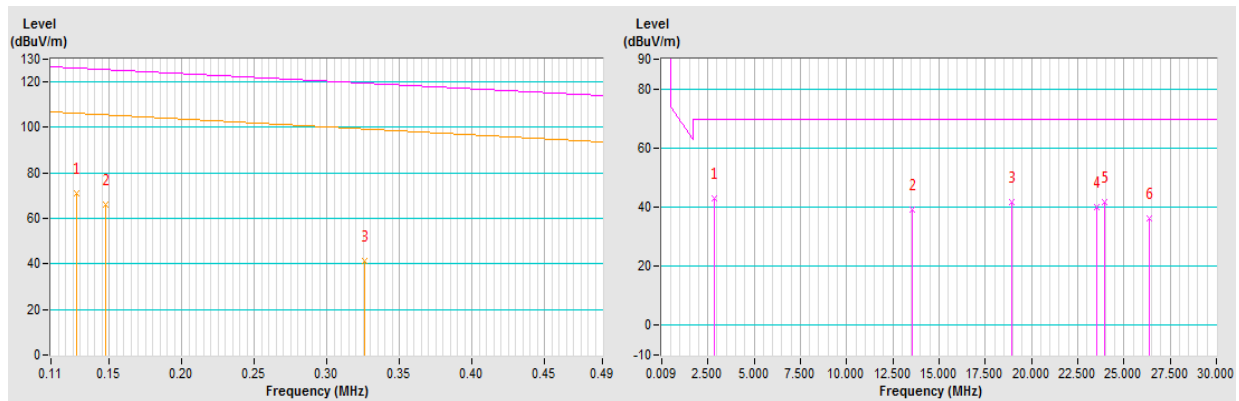


Channel	TX Channel 1 + 2 + 3	Detector Function	Average (AV) Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	D		

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	*0.1278	71.06 AV	105.49	-34.43	1.00	311	52.01	19.05
2	*0.1475	65.95 AV	104.25	-38.30	1.00	279	46.82	19.13
3	*0.3265	41.30 AV	97.33	-56.03	1.00	50	21.55	19.75
4	2.8400	42.90 QP	69.50	-26.60	1.00	133	23.00	19.90
5	13.5600	39.20 QP	69.50	-30.30	1.00	252	17.40	21.80
6	18.9500	41.70 QP	69.50	-27.80	1.00	79	19.70	22.00
7	23.5100	39.90 QP	69.50	-29.60	1.00	357	17.80	22.10
8	23.9400	41.80 QP	69.50	-27.70	1.00	1	19.70	22.10
9	26.3500	36.20 QP	69.50	-33.30	1.00	38	14.10	22.10

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. Limit @3m=Limit@300m+40log(300 / 3)=Limit@300m+80
8. Limit @3m=Limit@30m+40log(30 / 3)=Limit@30m+40

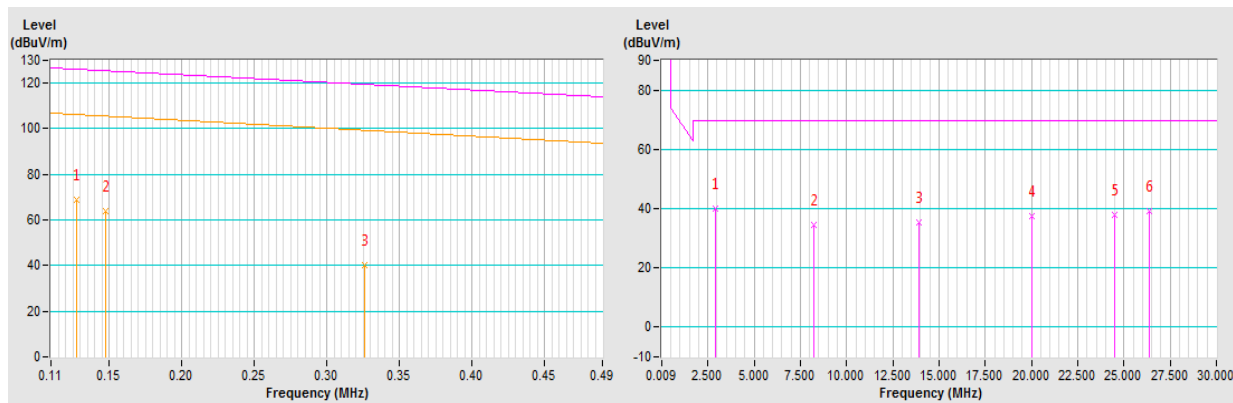


Channel	TX Channel 1 + 2 + 3	Detector Function	Average (AV) Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	D		

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	*0.1278	68.77 AV	105.49	-36.72	1.00	202	49.72	19.05
2	*0.1475	63.66 AV	104.25	-40.59	1.00	293	44.53	19.13
3	*0.3265	40.22 AV	97.33	-57.11	1.00	233	20.47	19.75
4	2.8900	39.90 QP	69.50	-29.60	1.00	216	20.00	19.90
5	8.2300	34.50 QP	69.50	-35.00	1.00	6	13.40	21.10
6	13.9000	35.50 QP	69.50	-34.00	1.00	5	13.70	21.80
7	20.0000	37.30 QP	69.50	-32.20	1.00	115	15.20	22.10
8	24.4700	37.70 QP	69.50	-31.80	1.00	189	15.60	22.10
9	26.3500	39.10 QP	69.50	-30.40	1.00	314	17.00	22.10

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. Limit @3m=Limit@300m+40log(300 / 3)=Limit@300m+80
8. Limit @3m=Limit@30m+40log(30 / 3)=Limit@30m+40



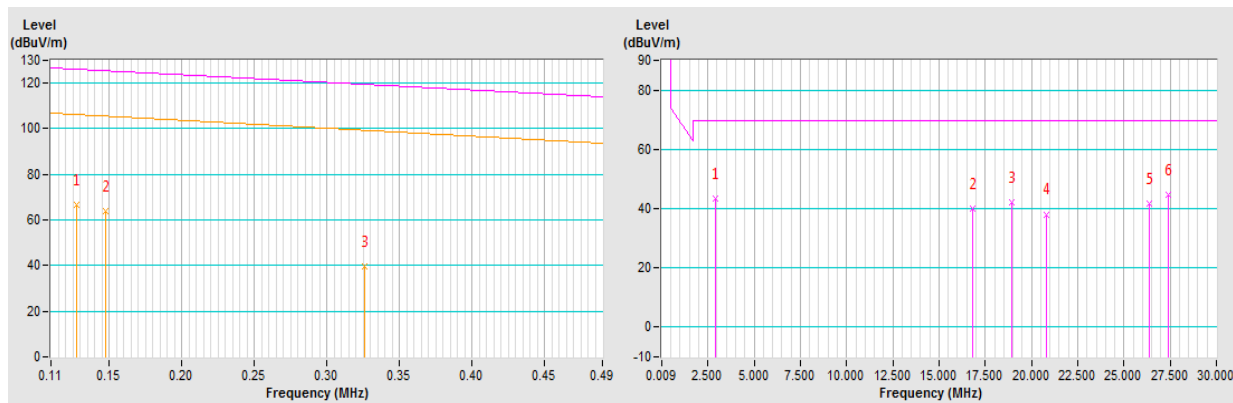
Channel	TX Channel 1 + 2 + 3	Detector Function	Average (AV) Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	D		

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	*0.1278	66.56 AV	105.49	-38.93	1.00	255	47.51	19.05
2	*0.1475	63.66 AV	104.25	-40.59	1.00	293	44.53	19.13
3	*0.3265	39.89 AV	97.33	-57.44	1.00	166	20.14	19.75
4	2.9400	43.30 QP	69.50	-26.20	1.00	111	23.40	19.90
5	16.8300	40.00 QP	69.50	-29.50	1.00	341	18.00	22.00
6	18.9500	42.20 QP	69.50	-27.30	1.00	203	20.20	22.00
7	20.8200	38.10 QP	69.50	-31.40	1.00	78	16.00	22.10
8	26.3500	41.90 QP	69.50	-27.60	1.00	253	19.80	22.10
9	27.4000	44.70 QP	69.50	-24.80	1.00	348	22.50	22.20

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) – 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. Limit @3m=Limit@300m+40log(300 / 3)=Limit@300m+80
8. Limit @3m=Limit@30m+40log(30 / 3)=Limit@30m+40



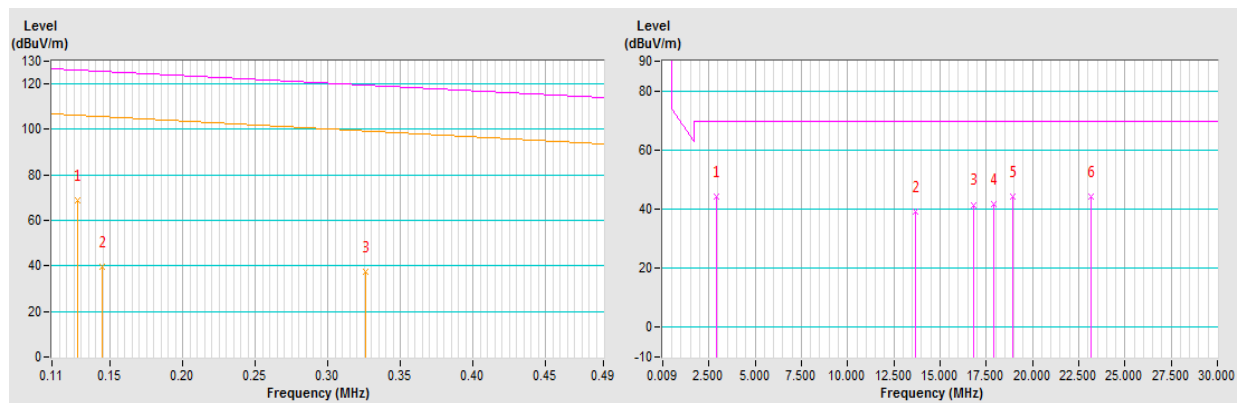
Standby Mode

Channel	TX Channel 1 + 2 + 3	Detector Function	Average (AV)
Frequency Range	9 kHz ~ 30 MHz		Quasi-Peak (QP)
Test Mode	E		

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	*0.1278	68.59 AV	105.49	-36.90	1.00	353	49.54	19.05
2	*0.1475	39.46 AV	104.41	-64.95	1.00	206	20.34	19.12
3	*0.3265	37.48 AV	97.33	-59.85	1.00	1	17.73	19.75
4	2.9400	44.30 QP	69.50	-25.20	1.00	69	24.40	19.90
5	13.6600	39.20 QP	69.50	-30.30	1.00	252	17.40	21.80
6	16.8300	41.50 QP	69.50	-28.00	1.00	213	19.50	22.00
7	17.8900	41.60 QP	69.50	-27.90	1.00	274	19.60	22.00
8	18.9500	44.10 QP	69.50	-25.40	1.00	102	22.10	22.00
9	23.1800	44.30 QP	69.50	-25.20	1.00	17	22.20	22.10

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. Limit @3m=Limit@300m+40log(300 / 3)=Limit@300m+80
8. Limit @3m=Limit@30m+40log(30 / 3)=Limit@30m+40

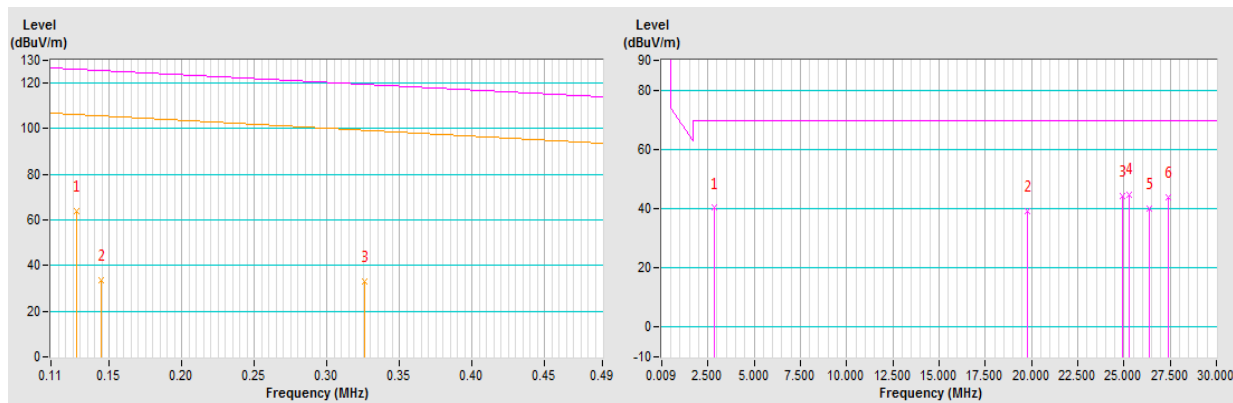


Channel	TX Channel 1 + 2 + 3	Detector Function	Average (AV) Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	E		

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	*0.1278	64.11 AV	105.49	-41.38	1.00	200	45.06	19.05
2	*0.1475	33.75 AV	104.41	-70.66	1.00	339	14.63	19.12
3	*0.3260	33.15 AV	97.33	-64.18	1.00	53	13.40	19.75
4	2.8400	40.20 QP	69.50	-29.30	1.00	245	20.30	19.90
5	19.7600	39.10 QP	69.50	-30.40	1.00	91	17.00	22.10
6	24.9100	44.10 QP	69.50	-25.40	1.00	43	22.00	22.10
7	25.2900	44.90 QP	69.50	-24.60	1.00	146	22.80	22.10
8	26.3500	40.10 QP	69.50	-29.40	1.00	310	18.00	22.10
9	27.4000	43.90 QP	69.50	-25.60	1.00	280	21.70	22.20

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) – 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. Limit @3m=Limit@300m+40log(300 / 3)=Limit@300m+80
8. Limit @3m=Limit@30m+40log(30 / 3)=Limit@30m+40



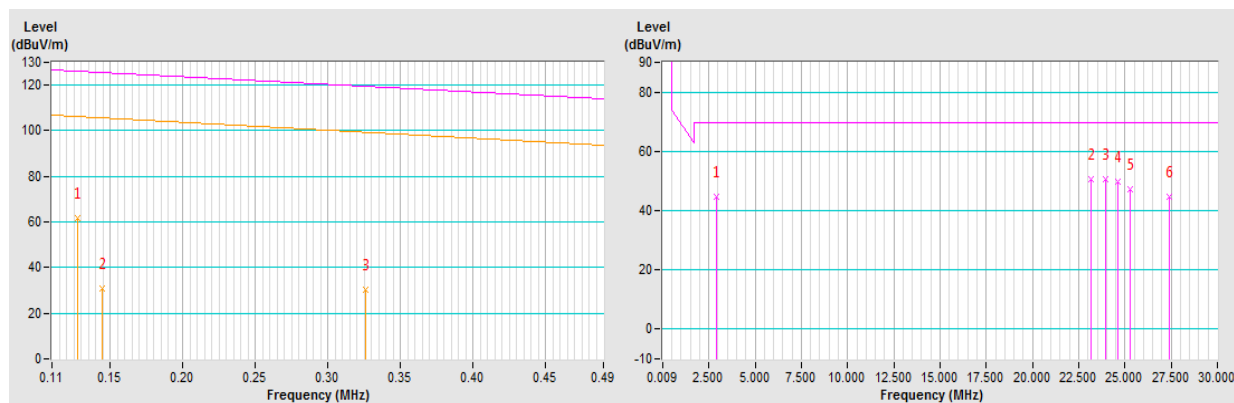
Channel	TX Channel 1 + 2 + 3	Detector Function	Average (AV) Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	E		

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	*0.1278	61.88 AV	105.49	-43.61	1.00	199	42.83	19.05
2	*0.1475	30.96 AV	104.41	-73.45	1.00	26	11.84	19.12
3	*0.3265	30.22 AV	97.33	-67.11	1.00	347	10.47	19.75
4	2.8900	44.50 QP	69.50	-25.00	1.00	232	24.60	19.90
5	23.1800	50.80 QP	69.50	-18.70	1.00	275	28.70	22.10
6	23.9400	50.40 QP	69.50	-19.10	1.00	271	28.30	22.10
7	24.6200	49.70 QP	69.50	-19.80	1.00	136	27.60	22.10
8	25.2900	47.30 QP	69.50	-22.20	1.00	68	25.20	22.10
9	27.4000	44.60 QP	69.50	-24.90	1.00	30	22.40	22.20

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) – 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. Limit @3m=Limit@300m+40log(300 / 3)=Limit@300m+80
8. Limit @3m=Limit@30m+40log(30 / 3)=Limit@30m+40



Below 1GHz Data:

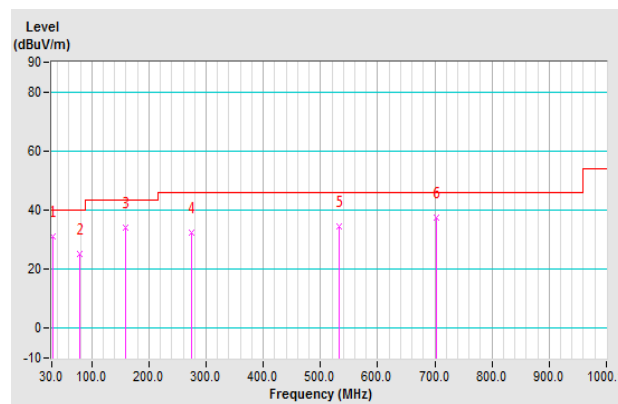
Charging Mode

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

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	31.4100	31.30 QP	40.00	-8.70	2.00 H	62	42.00	-10.70
2	79.2100	25.10 QP	40.00	-14.90	2.00 H	298	38.10	-13.00
3	159.3500	33.90 QP	43.50	-9.60	1.51 H	280	42.40	-8.50
4	274.6300	32.40 QP	46.00	-13.60	1.00 H	148	40.60	-8.20
5	533.3300	34.50 QP	46.00	-11.50	1.51 H	156	35.30	-0.80
6	703.4500	37.60 QP	46.00	-8.40	1.00 H	12	35.60	2.00

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

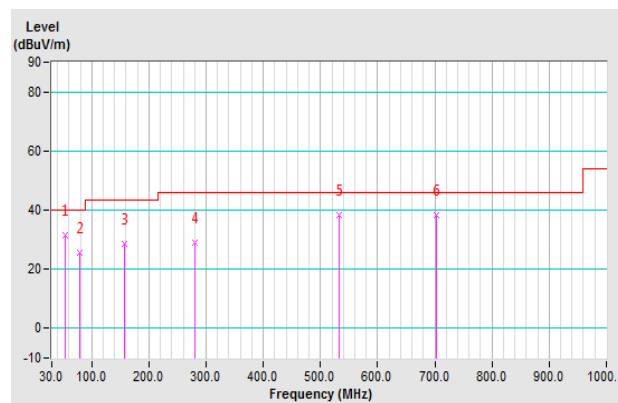


Channel	TX Channel 1	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	A		

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	53.9000	31.50 QP	40.00	-8.50	1.00 V	301	40.40	-8.90
2	79.2100	25.70 QP	40.00	-14.30	1.99 V	97	38.70	-13.00
3	156.5300	28.50 QP	43.50	-15.00	1.00 V	277	37.10	-8.60
4	280.2600	29.00 QP	46.00	-17.00	1.50 V	16	37.00	-8.00
5	531.9200	38.50 QP	46.00	-7.50	1.00 V	5	39.30	-0.80
6	703.4500	38.20 QP	46.00	-7.80	1.99 V	3	36.20	2.00

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

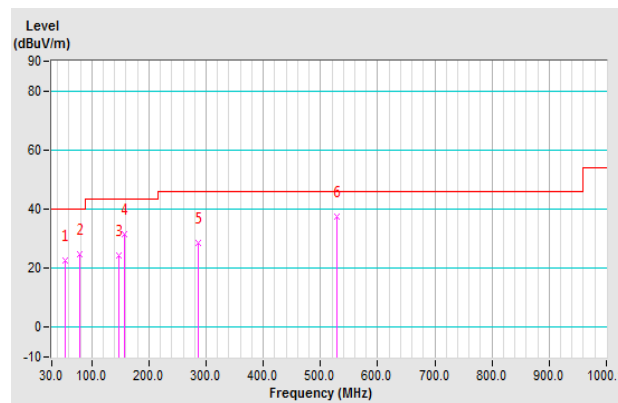


Channel	TX Channel 2	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	B		

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	53.9000	22.70 QP	40.00	-17.30	2.00 H	93	31.60	-8.90
2	79.2100	24.70 QP	40.00	-15.30	2.00 H	172	37.70	-13.00
3	148.1000	24.30 QP	43.50	-19.20	2.00 H	109	33.00	-8.70
4	156.5300	31.70 QP	43.50	-11.80	2.00 H	109	40.30	-8.60
5	285.8800	28.40 QP	46.00	-17.60	1.00 H	148	36.30	-7.90
6	529.1100	37.30 QP	46.00	-8.70	1.49 H	167	38.10	-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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

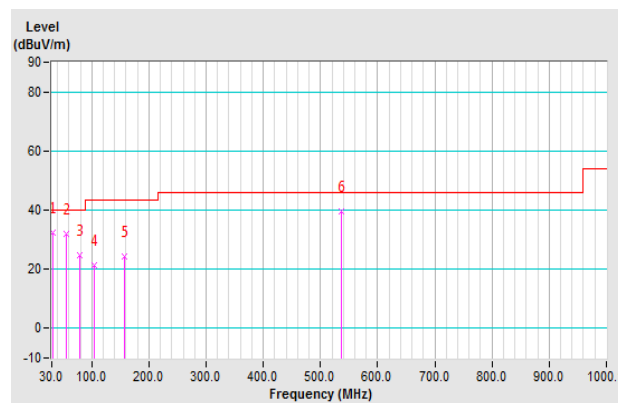


Channel	TX Channel 2	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	B		

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	31.4100	32.50 QP	40.00	-7.50	1.00 V	204	43.20	-10.70
2	55.3100	32.10 QP	40.00	-7.90	1.00 V	16	41.00	-8.90
3	79.2100	24.70 QP	40.00	-15.30	1.00 V	212	37.70	-13.00
4	104.5100	21.30 QP	43.50	-22.20	1.00 V	16	33.70	-12.40
5	157.9400	24.50 QP	43.50	-19.00	1.00 V	282	33.00	-8.50
6	536.1400	39.70 QP	46.00	-6.30	1.00 V	6	40.50	-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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

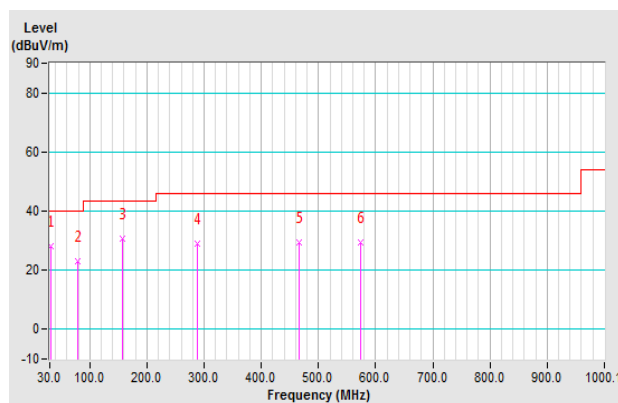


Channel	TX Channel 3	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	C		

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	31.4100	28.00 QP	40.00	-12.00	2.00 H	58	38.70	-10.70
2	79.2100	23.10 QP	40.00	-16.90	1.00 H	119	36.10	-13.00
3	156.5300	30.70 QP	43.50	-12.80	2.00 H	267	39.30	-8.60
4	287.2900	28.80 QP	46.00	-17.20	1.00 H	168	36.50	-7.70
5	465.8400	29.60 QP	46.00	-16.40	2.00 H	152	31.80	-2.20
6	574.1000	29.30 QP	46.00	-16.70	1.51 H	152	29.00	0.30

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

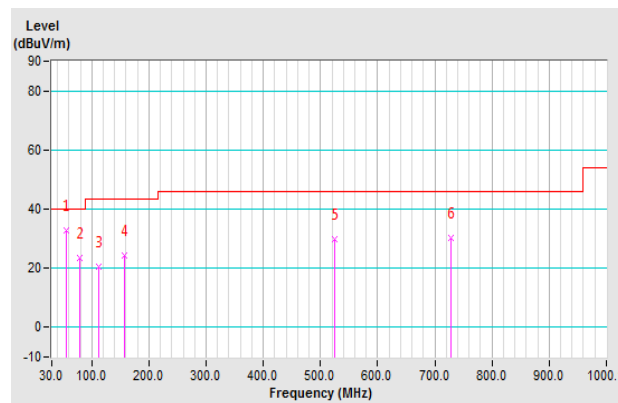


Channel	TX Channel 3	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	C		

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	55.3100	32.70 QP	40.00	-7.30	1.49 V	38	41.60	-8.90
2	79.2100	23.30 QP	40.00	-16.70	1.00 V	89	36.30	-13.00
3	111.5400	20.70 QP	43.50	-22.80	1.49 V	204	32.50	-11.80
4	156.5300	24.50 QP	43.50	-19.00	1.00 V	277	33.10	-8.60
5	524.8900	29.80 QP	46.00	-16.20	1.00 V	322	30.70	-0.90
6	728.7500	30.30 QP	46.00	-15.70	2.00 V	150	27.80	2.50

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

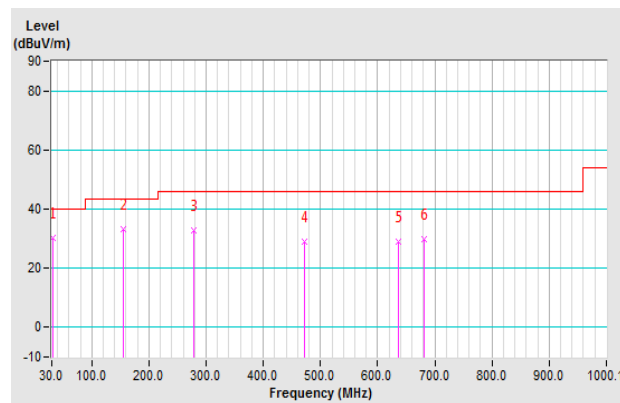


Channel	TX Channel 1 + 2 + 3	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	D		

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	31.4100	30.10 QP	40.00	-9.90	2.00 H	144	40.80	-10.70
2	155.1300	33.30 QP	43.50	-10.20	2.00 H	267	41.90	-8.60
3	278.8500	32.60 QP	46.00	-13.40	1.00 H	154	40.60	-8.00
4	472.8700	28.80 QP	46.00	-17.20	2.00 H	163	30.90	-2.10
5	635.9600	29.10 QP	46.00	-16.90	1.49 H	10	27.60	1.50
6	680.9500	30.00 QP	46.00	-16.00	2.00 H	97	28.00	2.00

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

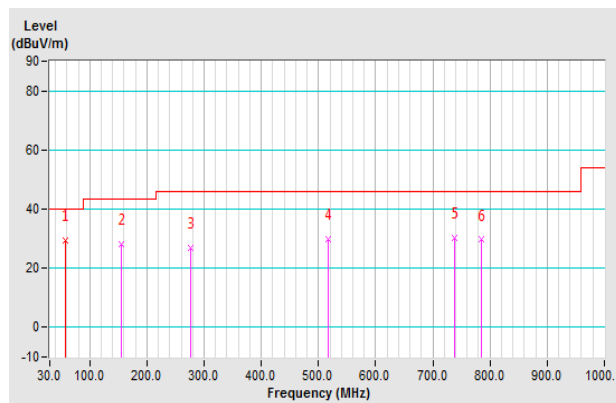


Channel	TX Channel 1 + 2 + 3	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	D		

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	56.6100	29.50 QP	40.00	-10.50	1.50 V	1	38.50	-9.00
2	155.1300	28.20 QP	43.50	-15.30	1.00 V	268	36.80	-8.60
3	276.0400	26.70 QP	46.00	-19.30	1.50 V	90	34.80	-8.10
4	517.8600	29.70 QP	46.00	-16.30	1.00 V	15	30.60	-0.90
5	737.1900	30.30 QP	46.00	-15.70	1.99 V	12	27.50	2.80
6	784.9900	29.60 QP	46.00	-16.40	1.99 V	12	26.50	3.10

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



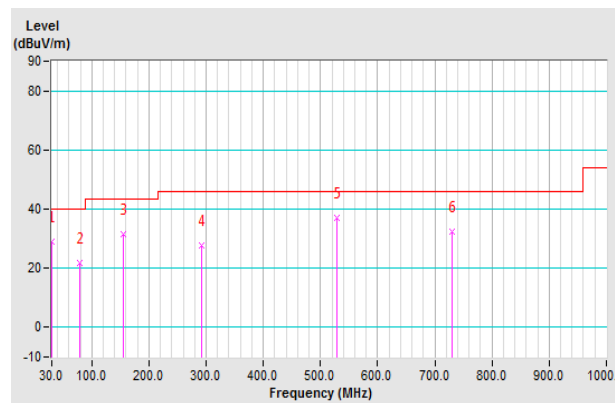
Standby Mode

Channel	TX Channel 1 + 2 + 3	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	E		

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	30.0000	29.00 QP	40.00	-11.00	2.00 H	275	39.40	-10.40
2	79.2100	21.90 QP	40.00	-18.10	1.51 H	88	34.90	-13.00
3	155.1300	31.70 QP	43.50	-11.80	2.00 H	133	40.30	-8.60
4	291.5100	27.90 QP	46.00	-18.10	1.00 H	149	35.60	-7.70
5	529.1100	36.90 QP	46.00	-9.10	1.51 H	175	37.70	-0.80
6	730.1600	32.20 QP	46.00	-13.80	1.51 H	256	29.70	2.50

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

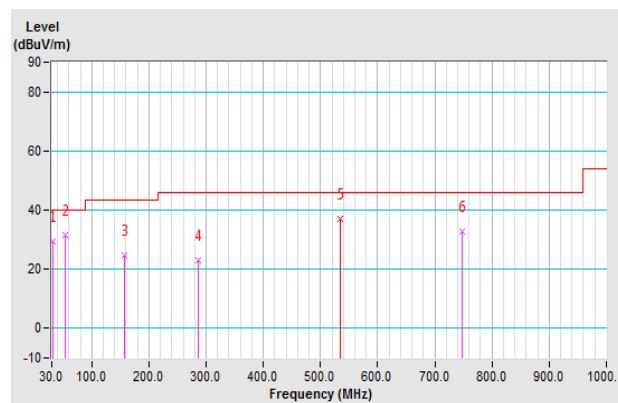


Channel	TX Channel 1 + 2 + 3	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	E		

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	31.4100	29.50 QP	40.00	-10.50	1.00 V	94	40.20	-10.70
2	52.5000	31.50 QP	40.00	-8.50	1.00 V	15	40.30	-8.80
3	156.5300	24.60 QP	43.50	-18.90	1.00 V	259	33.20	-8.60
4	285.8800	23.20 QP	46.00	-22.80	1.49 V	1	31.10	-7.90
5	535.0500	37.20 QP	46.00	-8.80	1.00 V	2	38.00	-0.80
6	747.0300	32.70 QP	46.00	-13.30	1.99 V	306	29.90	2.80

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) – Pre-Amplifier 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.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCI	100613	Dec. 11, 2019	Dec. 10, 2020
RF signal cable Woken	5D-FB	Cable-cond1-01	Sep. 05, 2019	Sep. 04, 2020
LISN ROHDE & SCHWARZ (EUT)	ENV216	101826	Feb. 21, 2019	Feb. 20, 2020
			Feb. 20, 2020	Feb. 19, 2021
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Aug. 22, 2019	Aug. 21, 2020
Software ADT	BV ADT_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 HwaYa Shielded Room 1.

3. The VCCI Site Registration No. is C-12040.

4.2.3 Test Procedures

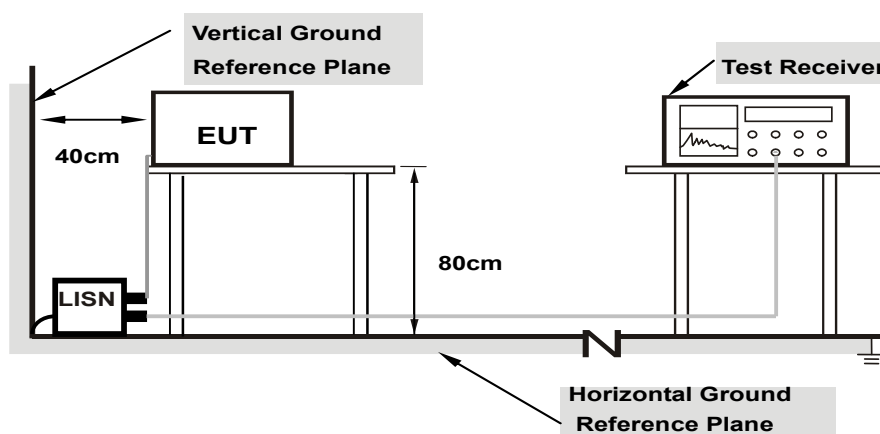
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance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

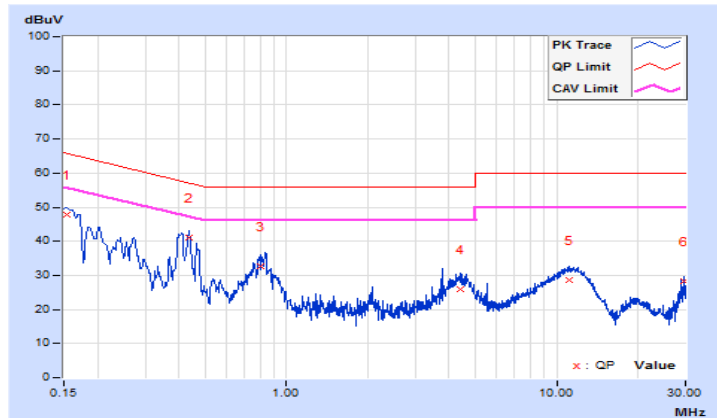
Charging Mode

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

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
	[MHz]		[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	10.15	37.79	24.40	47.94	34.55	65.79	55.79	-17.85	-21.24
2	0.43543	10.18	30.77	27.49	40.95	37.67	57.15	47.15	-16.20	-9.48
3	0.79885	10.24	22.26	14.12	32.50	24.36	56.00	46.00	-23.50	-21.64
4	4.39626	10.48	15.43	6.01	25.91	16.49	56.00	46.00	-30.09	-29.51
5	11.15274	10.57	18.17	13.72	28.74	24.29	60.00	50.00	-31.26	-25.71
6	29.77216	10.88	17.32	14.91	28.20	25.79	60.00	50.00	-31.80	-24.21

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.

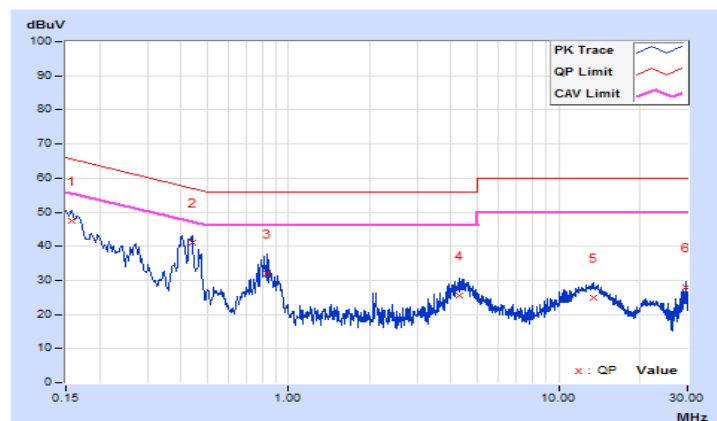


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	A		

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	0.15782	10.13	37.49	24.56	47.62	34.69	65.58	55.58	-17.96	-20.89
2	0.43924	10.18	31.06	26.38	41.24	36.56	57.08	47.08	-15.84	-10.52
3	0.83425	10.23	21.70	14.06	31.93	24.29	56.00	46.00	-24.07	-21.71
4	4.30242	10.46	15.18	6.73	25.64	17.19	56.00	46.00	-30.36	-28.81
5	13.42445	10.63	14.28	9.80	24.91	20.43	60.00	50.00	-35.09	-29.57
6	29.77216	10.91	16.94	14.58	27.85	25.49	60.00	50.00	-32.15	-24.51

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.

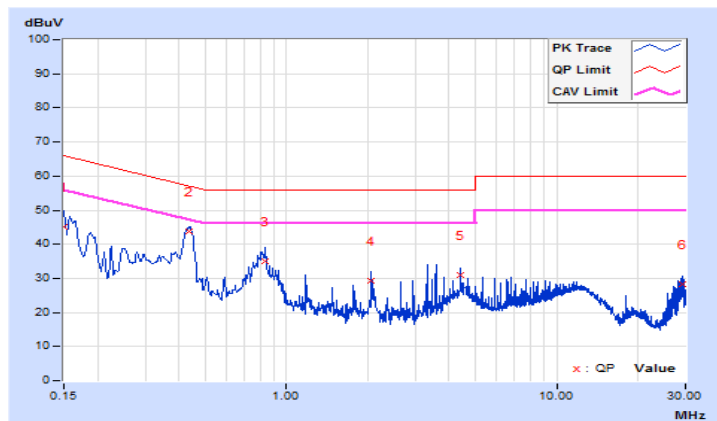


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
	[MHz]		[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.15	34.86	22.37	45.01	32.52	66.00	56.00	-20.99	-23.48
2	0.43579	10.18	33.62	27.14	43.80	37.32	57.14	47.14	-13.34	-9.82
3	0.83425	10.24	24.81	15.69	35.05	25.93	56.00	46.00	-20.95	-20.07
4	2.06263	10.36	18.85	17.71	29.21	28.07	56.00	46.00	-26.79	-17.93
5	4.42363	10.48	20.45	18.66	30.93	29.14	56.00	46.00	-25.07	-16.86
6	29.34597	10.87	17.56	14.25	28.43	25.12	60.00	50.00	-31.57	-24.88

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.

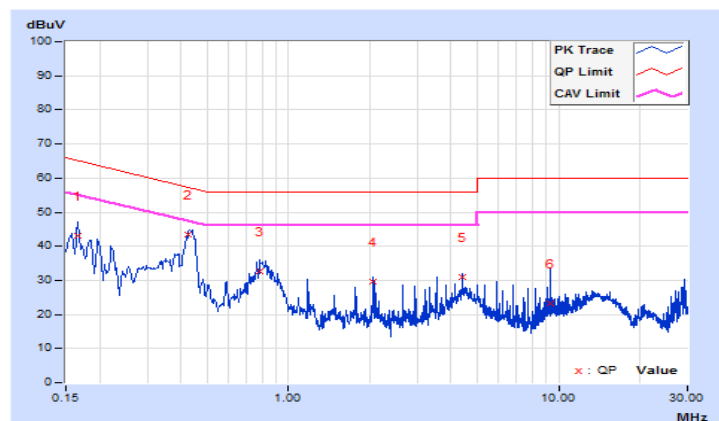


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

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	0.16564	10.13	32.99	19.35	43.12	29.48	65.18	55.18	-22.06	-25.70
2	0.42782	10.17	33.37	27.09	43.54	37.26	57.29	47.29	-13.75	-10.03
3	0.78342	10.22	22.54	14.28	32.76	24.50	56.00	46.00	-23.24	-21.50
4	2.06590	10.36	19.21	18.66	29.57	29.02	56.00	46.00	-26.43	-16.98
5	4.42363	10.46	20.55	18.56	31.01	29.02	56.00	46.00	-24.99	-16.98
6	9.32677	10.52	12.71	3.16	23.23	13.68	60.00	50.00	-36.77	-36.32

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.

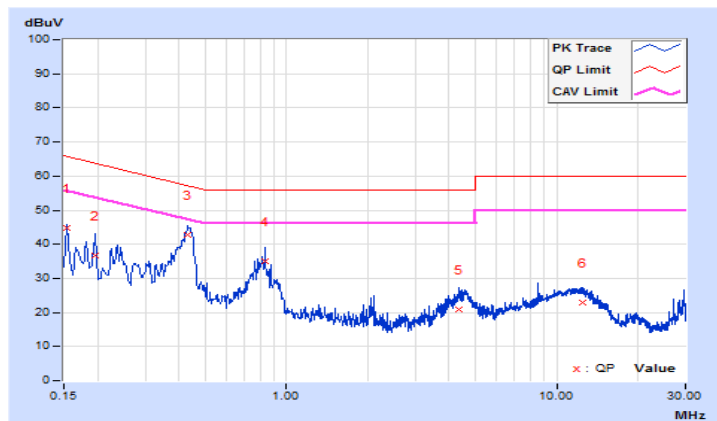


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	C		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
	[MHz]		[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	10.15	34.49	19.37	44.64	29.52	65.79	55.79	-21.15	-26.27
2	0.19692	10.16	26.42	13.27	36.58	23.43	63.74	53.74	-27.16	-30.31
3	0.43152	10.18	32.44	23.78	42.62	33.96	57.22	47.22	-14.60	-13.26
4	0.83034	10.24	24.93	15.42	35.17	25.66	56.00	46.00	-20.83	-20.34
5	4.32588	10.47	10.35	2.20	20.82	12.67	56.00	46.00	-35.18	-33.33
6	12.43522	10.58	12.47	6.59	23.05	17.17	60.00	50.00	-36.95	-32.83

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.

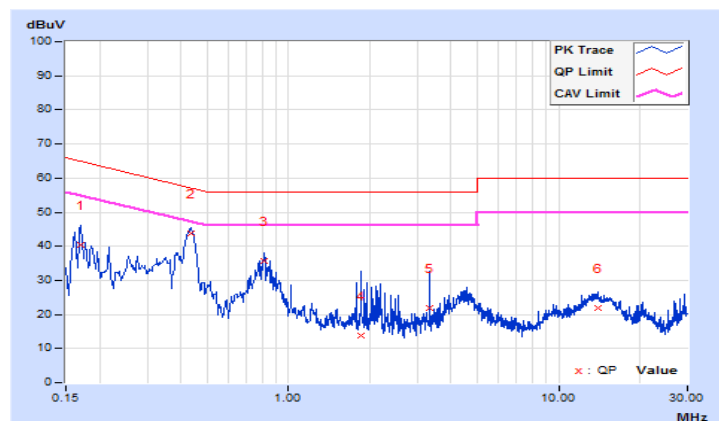


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	C		

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	0.16955	10.13	30.29	15.78	40.42	25.91	64.98	54.98	-24.56	-29.07
2	0.43543	10.17	33.74	27.42	43.91	37.59	57.15	47.15	-13.24	-9.56
3	0.81470	10.23	25.32	15.30	35.55	25.53	56.00	46.00	-20.45	-20.47
4	1.85476	10.34	3.38	0.73	13.72	11.07	56.00	46.00	-42.28	-34.93
5	3.32492	10.43	11.59	1.61	22.02	12.04	56.00	46.00	-33.98	-33.96
6	13.97576	10.65	11.22	6.60	21.87	17.25	60.00	50.00	-38.13	-32.75

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.

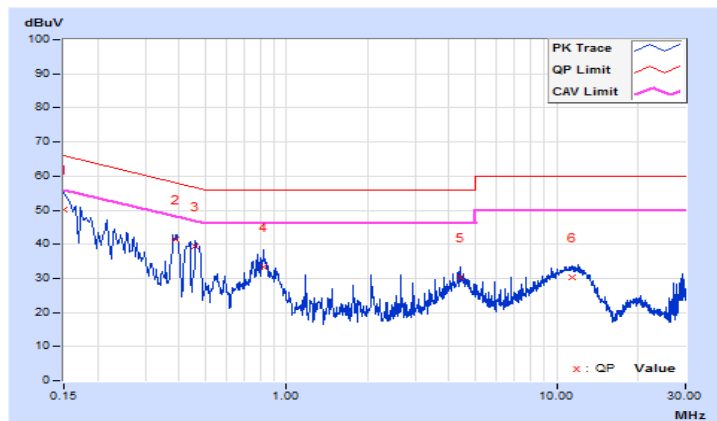


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	D		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
	[MHz]		[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.15	40.11	27.80	50.26	37.95	66.00	56.00	-15.74	-18.05
2	0.38851	10.17	31.19	27.45	41.36	37.62	58.10	48.10	-16.74	-10.48
3	0.45889	10.18	29.07	17.09	39.25	27.27	56.71	46.71	-17.46	-19.44
4	0.81861	10.24	23.22	15.11	33.46	25.35	56.00	46.00	-22.54	-20.65
5	4.41972	10.48	19.69	16.11	30.17	26.59	56.00	46.00	-25.83	-19.41
6	11.37470	10.57	19.63	14.98	30.20	25.55	60.00	50.00	-29.80	-24.45

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.

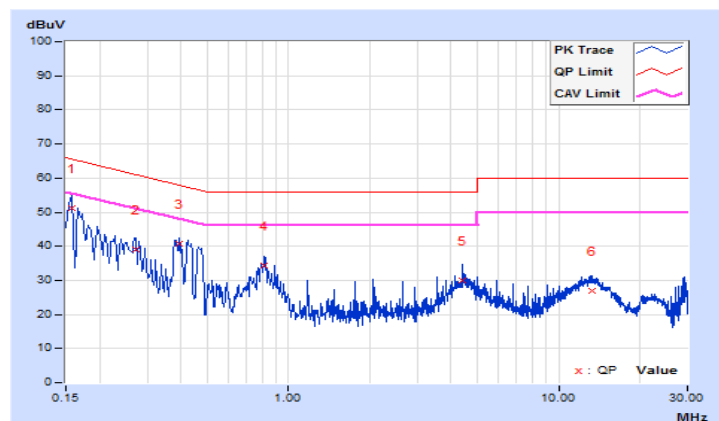


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	D		

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	0.15760	10.13	40.93	27.64	51.06	37.77	65.59	55.59	-14.53	-17.82
2	0.27120	10.14	28.79	20.99	38.93	31.13	61.08	51.08	-22.15	-19.95
3	0.39633	10.17	30.53	22.21	40.70	32.38	57.93	47.93	-17.23	-15.55
4	0.81079	10.22	24.00	16.19	34.22	26.41	56.00	46.00	-21.78	-19.59
5	4.42754	10.46	19.41	15.53	29.87	25.99	56.00	46.00	-26.13	-20.01
6	13.23677	10.63	16.16	11.41	26.79	22.04	60.00	50.00	-33.21	-27.96

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.



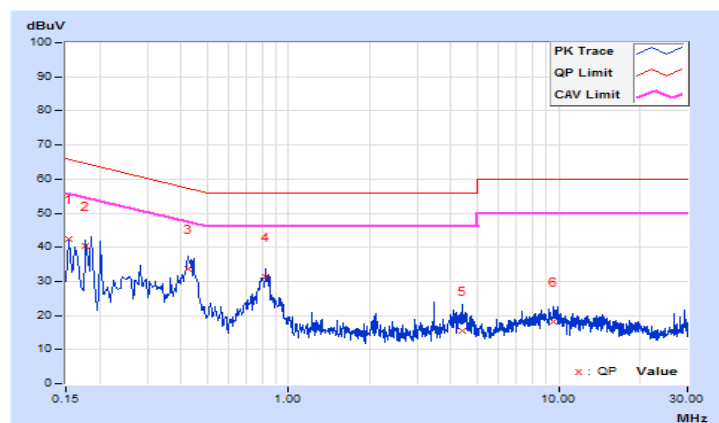
Standby Mode

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

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	0.15400	10.15	32.34	12.55	42.49	22.70	65.78	55.78	-23.29	-33.08
2	0.17800	10.16	30.31	9.50	40.47	19.66	64.58	54.58	-24.11	-34.92
3	0.42577	10.17	23.35	10.72	33.52	20.89	57.33	47.33	-23.81	-26.44
4	0.82200	10.24	21.02	12.32	31.26	22.56	56.00	46.00	-24.74	-23.44
5	4.38200	10.48	5.16	2.77	15.64	13.25	56.00	46.00	-40.36	-32.75
6	9.58200	10.54	7.54	1.70	18.08	12.24	60.00	50.00	-41.92	-37.76

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.

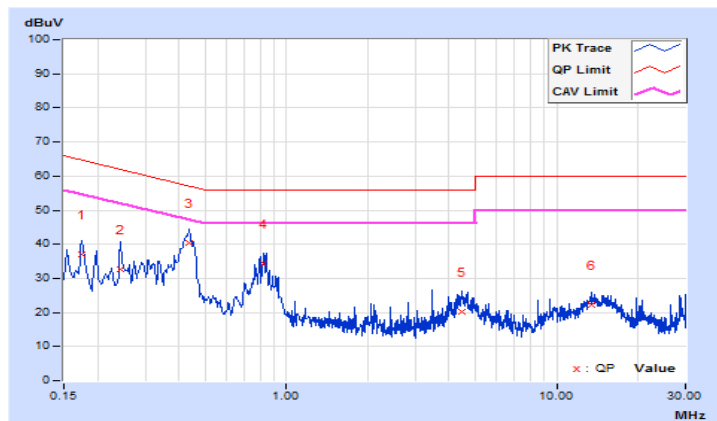


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	E		

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	0.17400	10.13	26.89	8.51	37.02	18.64	64.77	54.77	-27.75	-36.13
2	0.24200	10.14	22.66	8.10	32.80	18.24	62.03	52.03	-29.23	-33.79
3	0.43800	10.18	30.34	17.22	40.52	27.40	57.10	47.10	-16.58	-19.70
4	0.82200	10.23	24.04	15.44	34.27	25.67	56.00	46.00	-21.73	-20.33
5	4.46600	10.47	9.64	0.48	20.11	10.95	56.00	46.00	-35.89	-35.05
6	13.41800	10.63	11.45	5.43	22.08	16.06	60.00	50.00	-37.92	-33.94

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 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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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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