

FCC Test Report

Report No.: RFBEKS-WTW-P20100558

FCC ID: GV3M01513

Test Model: M01513

Series Model: M01509, M01550, M01551 (refer to item 3.1 for more details)

Received Date: Oct. 23, 2020

Test Date: Nov. 04 ~ Nov. 06, 2020

Issued Date: Nov. 12, 2020

Applicant: ACCO Brands, Inc.

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

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FCC Registration / 788550 / TW0003
Designation Number:



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Release Control Record

Issue No.	Description	Date Issued
RFBEKS-WTW-P20100558	Original release	Nov. 12, 2020

1 Certificate of Conformity

Product: StudioDock

Brand: Kensington

Test Model: M01513

Series Model: M01509, M01550, M01551 (refer to item 3.1 for more details)

Sample Status: Identical Prototype

Applicant: ACCO Brands, Inc.

Test Date: Nov. 04 ~ Nov. 06, 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:** Nov. 12, 2020
Celine Chou / Senior Specialist

Approved by : Bruce Chen , **Date:** Nov. 12, 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 -17.57dB at 0.39633MHz.
15.209	Radiated Emission Test	Pass	Meet the requirement of limit. Minimum passing margin is -3.6dB at 30.00MHz

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

2.1 Measurement Uncertainty

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

Measurement	Frequency	Expanded Uncertainty (k=2) ($\pm$)
Conducted Emissions at mains ports	150kHz ~ 30MHz	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	StudioDock
Brand	Kensington
Test Model	M01513
Series Model	M01509, M01550, M01551
Model Difference	Refer to note
Sample Status	Identical Prototype
Power Supply Rating	20Vdc (adapter)
Modulation Type	ASK
Operating Frequency	127.7kHz 133.0kHz
Antenna Type	Coil antenna (The Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible)
Field Strength	127.7kHz: 1.50dBuV/m 133.0kHz: 0.40dBuV/m
Dimension for iPhone charging coil	19.20cm ² (Length = 48mm, width = 40mm)
Dimension for AirPods charging coil	13.85cm ² (diameter = 42mm)
Accessory Device	Refer to Note as below
Data Cable Supplied	Refer to Note as below
Maximum Power Output for iPhone charging coil	10W
Maximum Power Output for AirPods charging coil	5W

Note:

1. All models are listed as below. Model M01513 is the representative for final test.

Brand	Model	Description
Kensington	M01513	12.9" Main set
	M01550	
	M01509	11" Main set
	M01551	

2. The EUT contains following accessory devices.

Product	Brand	Model	Description
Adapter	LITEON	PA-1131-72	I/P: 100-240Vac, 50/60Hz, 2.5A, 135W O/P: 20Vdc, 6.75A 1.6m non-shielded DC cable with 1 core 0.9m non-shielded AC cable w/o core

3.2 Description of Test Modes

2 channels are provided to this EUT

Channel	Freq. (kHz)
1	127.7
2	133.0

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT configure mode	Applicable to		Description
	RE<1G	PLC	
A	√	√	Charging Mode (127.7kHz)
B	√	√	Charging Mode (133.0kHz)
C	√	√	Charging Mode (127.7kHz + 133.0kHz + 326.5kHz)
D	√	√	Standby Mode (127.7kHz + 133.0kHz + 326.5kHz)

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

PLC: Power Line Conducted Emission

Note: For test mode A to E, 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	1
B	1, 2	2
C	1, 2	1, 2
D	1, 2	1, 2

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	1
B	1, 2	2
C	1, 2	1, 2
D	1, 2	1, 2

Test Condition:

Applicable To	Environmental Conditions	Input Power	Tested by
RE<1G	23 deg. C, 66% RH	120Vac, 60Hz	Adair Peng
PLC	23 deg. C, 66% RH 23 deg. C, 67% RH	120Vac, 60Hz	Adair Peng

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	For 127.7kHz
B.	Load	NA	NA	NA	NA	For 133.0kHz
C.	Load	NA	NA	NA	NA	For 326.5kHz
D.	iPad Pro	Apple	A2229	NA	NA	Provided by manufacturer
E.	Earphone	Apple	MB770FE/B	NA	NA	-
F.	USB Flash	HP	v250W	05	NA	-
G.	USB Flash	HP	v250W	03	NA	-
H.	Load	NA	NA	NA	NA	-
I.	Watch Charger for StudioDock™	Kensington	M01552	NA	GV3M01552	Provided by manufacturer (326.5kHz)

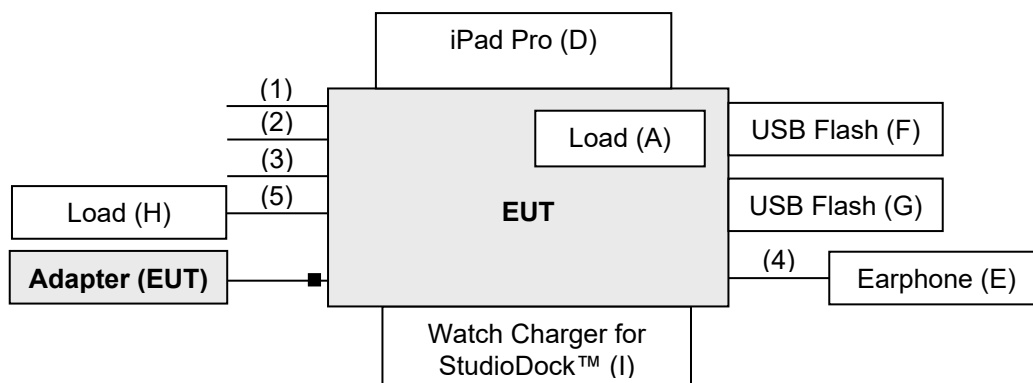
Note: All power cords of the above support units are non-shielded (1.8m).

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	HDMI Cable	1	1.0	Y	0	-
2.	USB Cable	1	1.8	Y	0	-
3.	Type C Cable	1	1.8	Y	0	-
4.	Earphone Cable	1	1.2	Y	0	-
5.	LAN Cable	1	1.5	N	0	RJ45, Cat5e

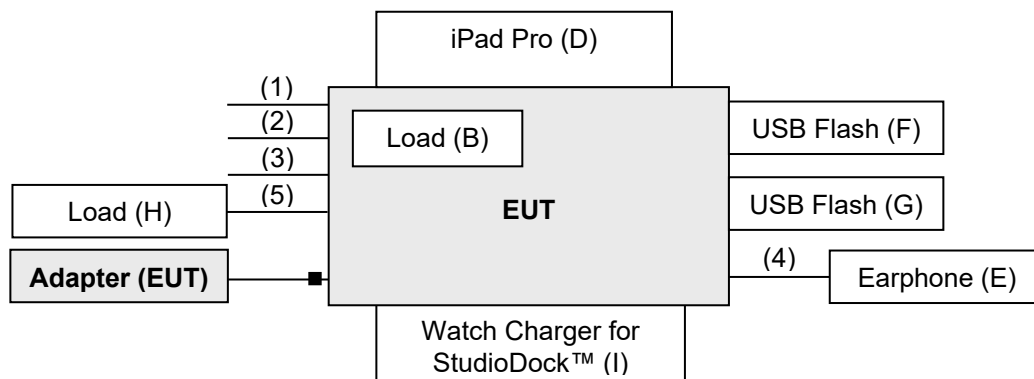
3.3.1 Configuration of System under Test

Charging Mode:

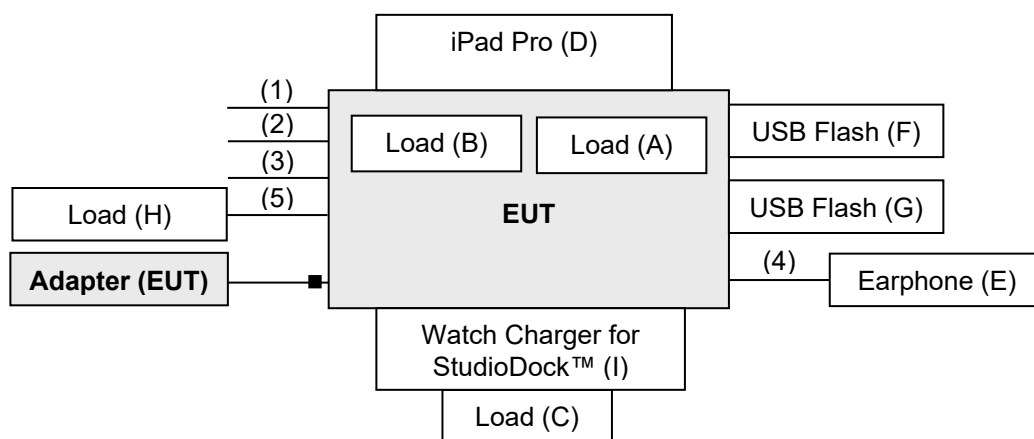
Test Mode A



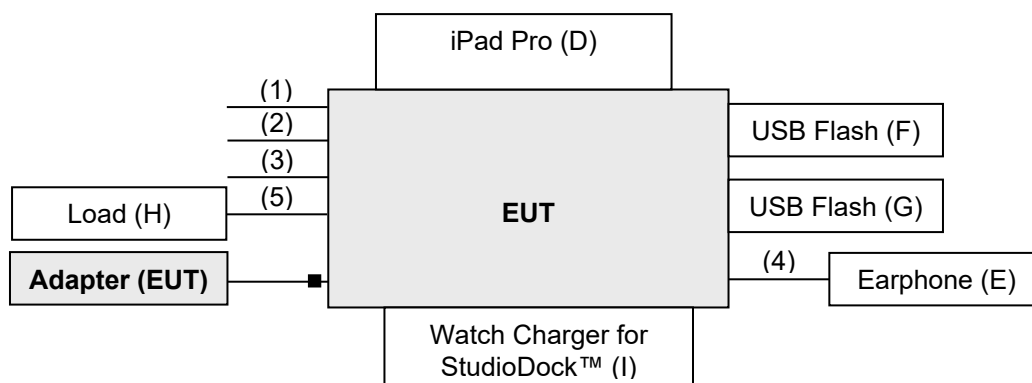
Test Mode B



Test Mode C



Standby Mode:
Test Mode D



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	ESR3	102579	Jul. 07, 2020	Jul. 06, 2021
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. 06, 2020	Jul. 05, 2021
Preamplifier Agilent (Below 1GHz)	8447D	2944A10738	Aug. 16, 2020	Aug. 15, 2021
Preamplifier Agilent (Above 1GHz)	8449B	3008A02465	Mar. 23, 2020	Mar. 22, 2021
RF Coaxial Cable WOKEN With 5dB PAD	8D-FB	Cable-CH3-01	Aug. 16, 2020	Aug. 15, 2021
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH3-03 (223653/4)	Aug. 16, 2020	Aug. 15, 2021
RF signal cable HUBER+SUHNER& EMCI	SUCOFLEX 104&EMC104-SM-S M-8000	Cable-CH3-03 (309224+170907)	Aug. 16, 2020	Aug. 15, 2021
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:

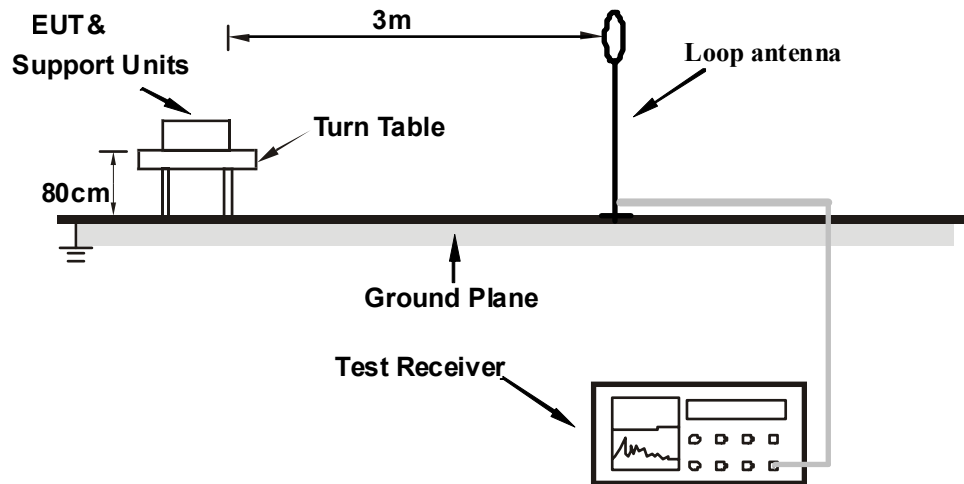
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.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

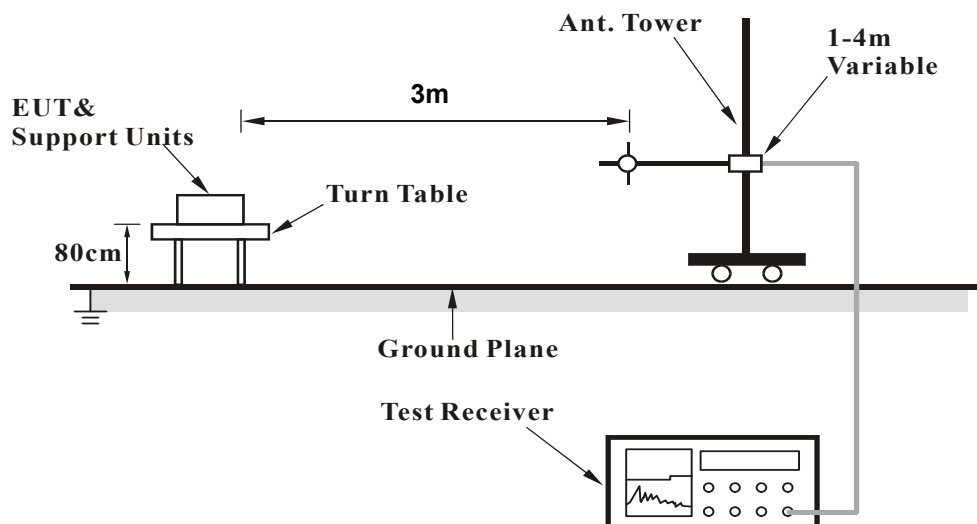
No deviation.

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, B ,C

- a. The EUT powered by adapter.
- b. The iPad Pro charged by EUT.
- c. Put the Load on the EUT (wireless charging) during the test.

Standby Mode:

Test Mode D

- a. The EUT powered by adapter.
- b. The iPad Pro charged by EUT.

4.1.7 Test Results

Below 30MHz Data:

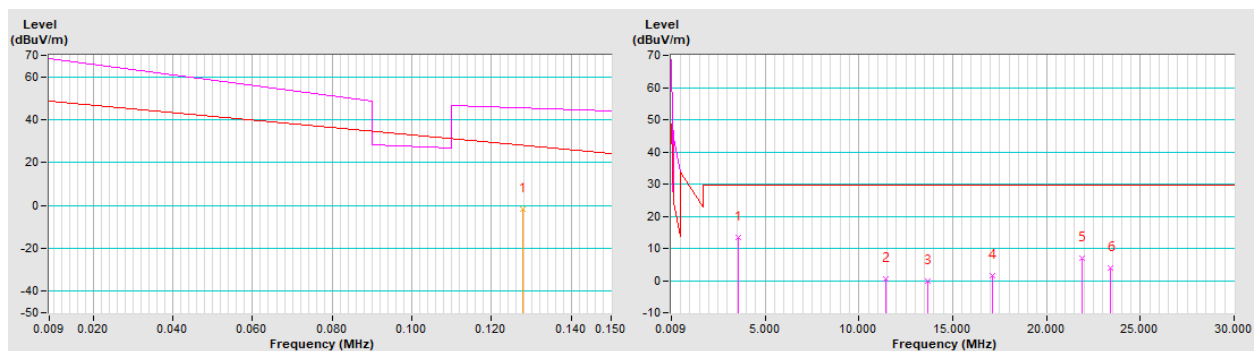
Charging Mode

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	*0.1277	-1.80 AV	25.50	-27.30	1.00	43	58.80	-60.60
2	3.5700	13.40 QP	29.50	-16.10	1.00	316	33.90	-20.50
3	11.4400	0.50 QP	29.50	-29.00	1.00	275	19.20	-18.70
4	13.6600	-0.30 QP	29.50	-29.80	1.00	316	18.40	-18.70
5	17.1300	1.40 QP	29.50	-28.10	1.00	78	19.90	-18.50
6	21.9200	6.90 QP	29.50	-22.60	1.00	352	25.30	-18.40
7	23.4400	3.80 QP	29.50	-25.70	1.00	149	22.10	-18.30

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
5. “ * ”: Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. 0.009 ~ 0.49MHz, the measured field strength was extrapolated to distance 300 meters Distance factor@3m = $40 \cdot \log(3/300) = -80\text{dB}$
For 0.49 ~ 30MHz, the measured field strength was extrapolated to distance 30 meters Distance factor@3m = $40 \cdot \log(3/30) = -40\text{dB}$

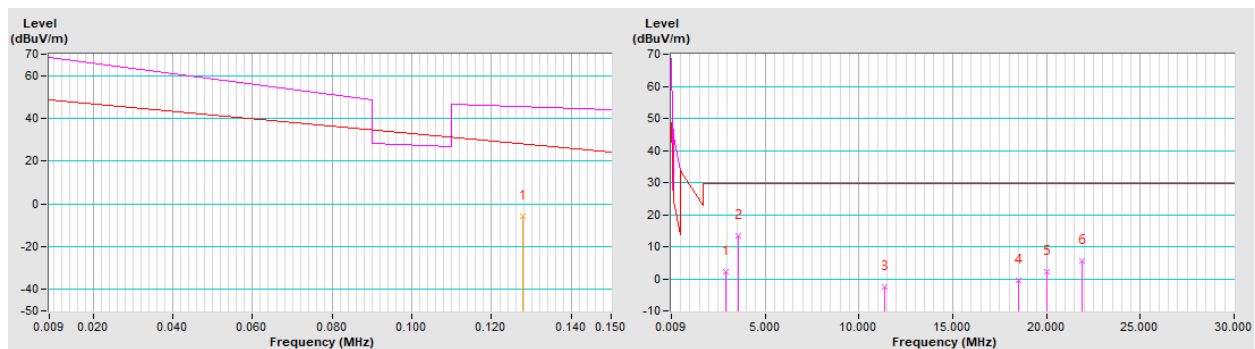


Channel	TX Channel 1	Detector Function	Average (AV) Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	A		

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	*0.1277	-5.60 AV	25.50	-31.10	1.00	331	55.00	-60.60
2	2.9200	2.30 QP	29.50	-27.20	1.00	191	23.00	-20.70
3	3.5700	13.30 QP	29.50	-16.20	1.00	3	33.80	-20.50
4	11.4000	-2.60 QP	29.50	-32.10	1.00	293	16.10	-18.70
5	18.5300	-0.40 QP	29.50	-29.90	1.00	246	18.10	-18.50
6	20.0000	2.20 QP	29.50	-27.30	1.00	217	20.60	-18.40
7	21.9200	5.50 QP	29.50	-24.00	1.00	138	23.90	-18.40

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. 0.009 ~ 0.49MHz, the measured field strength was extrapolated to distance 300 meters Distance factor@3m = $40 \cdot \log(3/300) = -80\text{dB}$
For 0.49 ~ 30MHz, the measured field strength was extrapolated to distance 30 meters Distance factor@3m = $40 \cdot \log(3/30) = -40\text{dB}$

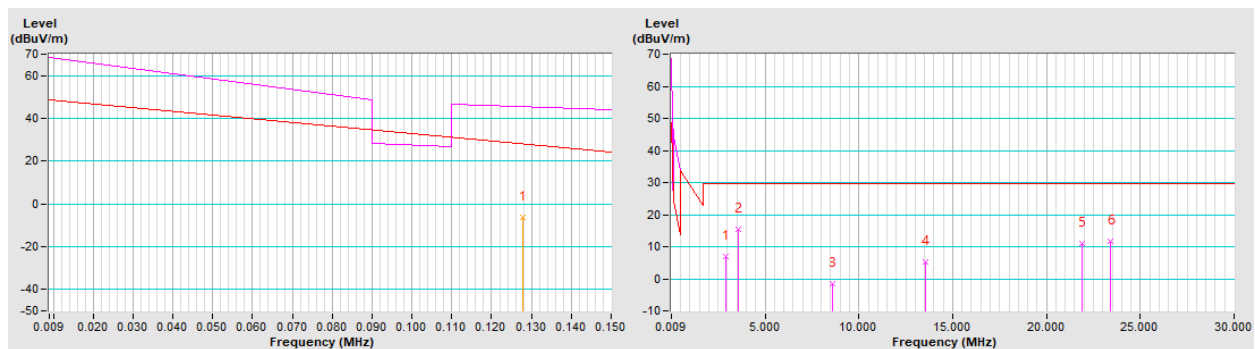


Channel	TX Channel 1	Detector Function	Average (AV) Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	A		

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	*0.1277	-6.10 AV	25.50	-31.60	1.00	46	54.50	-60.60
2	2.9200	7.00 QP	29.50	-22.50	1.00	96	27.70	-20.70
3	3.5700	15.30 QP	29.50	-14.20	1.00	12	35.80	-20.50
4	8.5700	-1.40 QP	29.50	-30.90	1.00	215	17.70	-19.10
5	13.5700	5.40 QP	29.50	-24.10	1.00	119	24.10	-18.70
6	21.9200	10.90 QP	29.50	-18.60	1.00	87	29.30	-18.40
7	23.4400	11.70 QP	29.50	-17.80	1.00	227	30.00	-18.30

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
5. “ * “: Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. 0.009 ~ 0.49MHz, the measured field strength was extrapolated to distance 300 meters Distance factor@3m = $40 \cdot \log(3/300) = -80\text{dB}$
For 0.49 ~ 30MHz, the measured field strength was extrapolated to distance 30 meters Distance factor@3m = $40 \cdot \log(3/30) = -40\text{dB}$

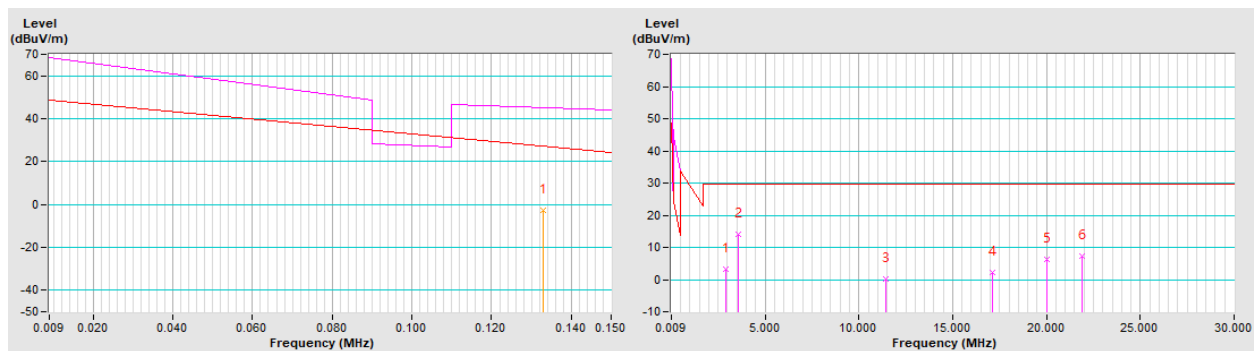


Channel	TX Channel 2	Detector Function	Average (AV) Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	B		

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	*0.1330	-2.80 AV	25.10	-27.90	1.00	245	57.80	-60.60
2	2.9200	3.20 QP	29.50	-26.30	1.00	264	23.90	-20.70
3	3.5700	14.00 QP	29.50	-15.50	1.00	348	34.50	-20.50
4	11.4400	0.10 QP	29.50	-29.40	1.00	264	18.80	-18.70
5	17.1300	2.30 QP	29.50	-27.20	1.00	295	20.80	-18.50
6	20.0000	6.20 QP	29.50	-23.30	1.00	239	24.60	-18.40
7	21.9200	7.40 QP	29.50	-22.10	1.00	147	25.80	-18.40

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. 0.009 ~ 0.49MHz, the measured field strength was extrapolated to distance 300 meters Distance factor@3m = $40 \cdot \log(3/300) = -80\text{dB}$
For 0.49 ~ 30MHz, the measured field strength was extrapolated to distance 30 meters Distance factor@3m = $40 \cdot \log(3/30) = -40\text{dB}$

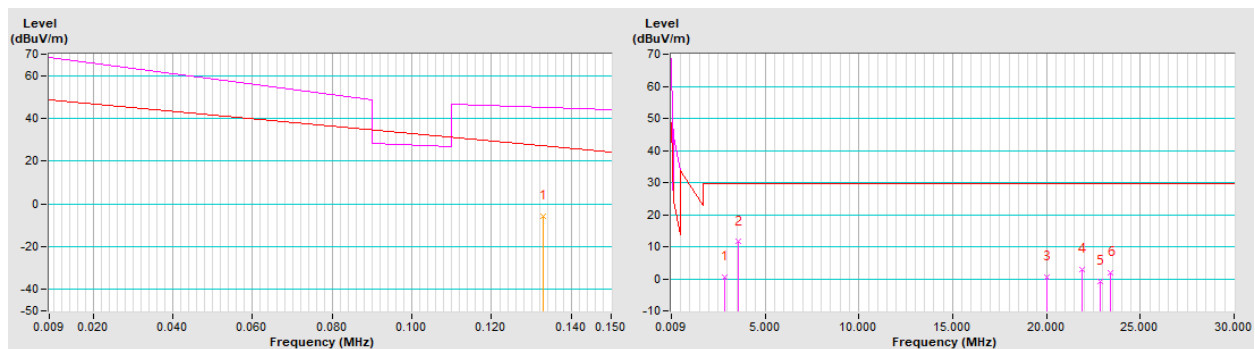


Channel	TX Channel 2	Detector Function	Average (AV) Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	B		

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	*0.1330	-5.90 AV	25.10	-31.00	1.00	305	54.70	-60.60
2	2.8300	0.50 QP	29.50	-29.00	1.00	38	21.20	-20.70
3	3.5700	11.50 QP	29.50	-18.00	1.00	173	32.00	-20.50
4	20.0000	0.50 QP	29.50	-29.00	1.00	309	18.90	-18.40
5	21.9200	3.00 QP	29.50	-26.50	1.00	27	21.40	-18.40
6	22.8700	-0.90 QP	29.50	-30.40	1.00	182	17.40	-18.30
7	23.4400	1.90 QP	29.50	-27.60	1.00	270	20.20	-18.30

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
5. “ * “: Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. 0.009 ~ 0.49MHz, the measured field strength was extrapolated to distance 300 meters Distance factor@3m = $40 \cdot \log(3/300) = -80\text{dB}$
For 0.49 ~ 30MHz, the measured field strength was extrapolated to distance 30 meters Distance factor@3m = $40 \cdot \log(3/30) = -40\text{dB}$

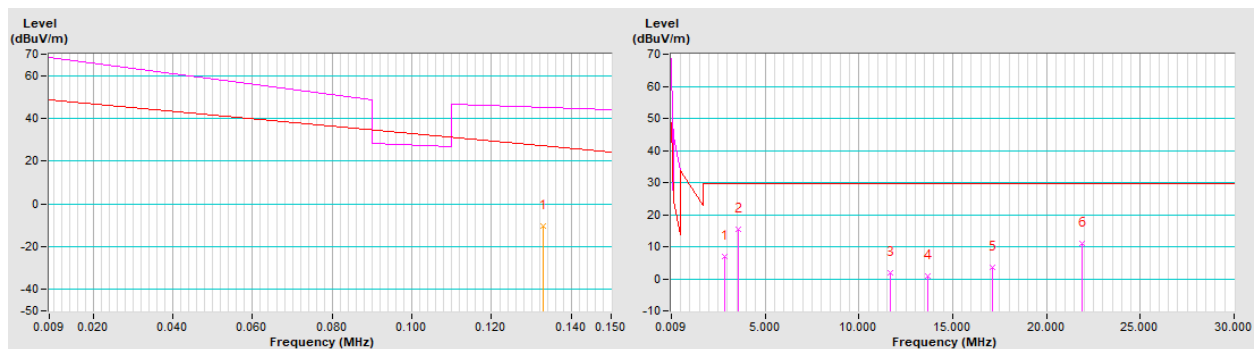


Channel	TX Channel 2	Detector Function	Average (AV) Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	B		

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	*0.1330	-10.10 AV	25.10	-35.20	1.00	46	50.50	-60.60
2	2.8300	6.90 QP	29.50	-22.60	1.00	111	27.60	-20.70
3	3.5700	15.50 QP	29.50	-14.00	1.00	168	36.00	-20.50
4	11.7000	1.90 QP	29.50	-27.60	1.00	181	20.60	-18.70
5	13.6600	0.90 QP	29.50	-28.60	1.00	290	19.60	-18.70
6	17.1300	3.70 QP	29.50	-25.80	1.00	34	22.20	-18.50
7	21.9200	10.90 QP	29.50	-18.60	1.00	340	29.30	-18.40

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. 0.009 ~ 0.49MHz, the measured field strength was extrapolated to distance 300 meters Distance factor@3m = $40 \cdot \log(3/300) = -80\text{dB}$
For 0.49 ~ 30MHz, the measured field strength was extrapolated to distance 30 meters Distance factor@3m = $40 \cdot \log(3/30) = -40\text{dB}$

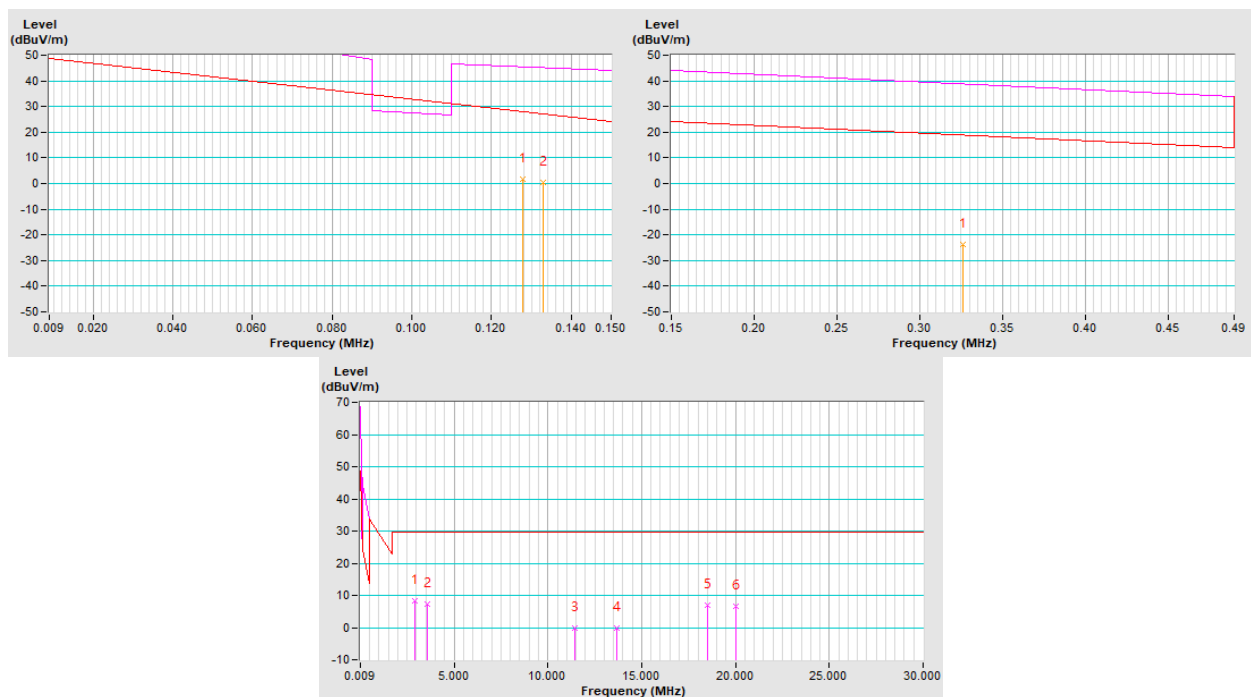


Channel	TX Channel 1 + 2	Detector Function	Average (AV) Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	C		

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	*0.1277	1.50 AV	25.50	-24.00	1.00	73	62.10	-60.60
2	*0.1330	0.40 AV	25.10	-24.70	1.00	246	61.00	-60.60
3	*0.3265	-23.70 AV	17.30	-41.00	1.00	178	36.50	-60.20
4	2.9200	8.20 QP	29.50	-21.30	1.00	296	28.90	-20.70
5	3.5700	7.40 QP	29.50	-22.10	1.00	9	27.90	-20.50
6	11.4400	0.00 QP	29.50	-29.50	1.00	222	18.70	-18.70
7	13.6600	-0.10 QP	29.50	-29.60	1.00	80	18.60	-18.70
8	18.5300	6.90 QP	29.50	-22.60	1.00	217	25.40	-18.50
9	20.0000	6.50 QP	29.50	-23.00	1.00	289	24.90	-18.40

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. 0.009 ~ 0.49MHz, the measured field strength was extrapolated to distance 300 meters Distance factor@3m = $40 \cdot \log(3/300) = -80\text{dB}$
For 0.49 ~ 30MHz, the measured field strength was extrapolated to distance 30 meters Distance factor@3m = $40 \cdot \log(3/30) = -40\text{dB}$

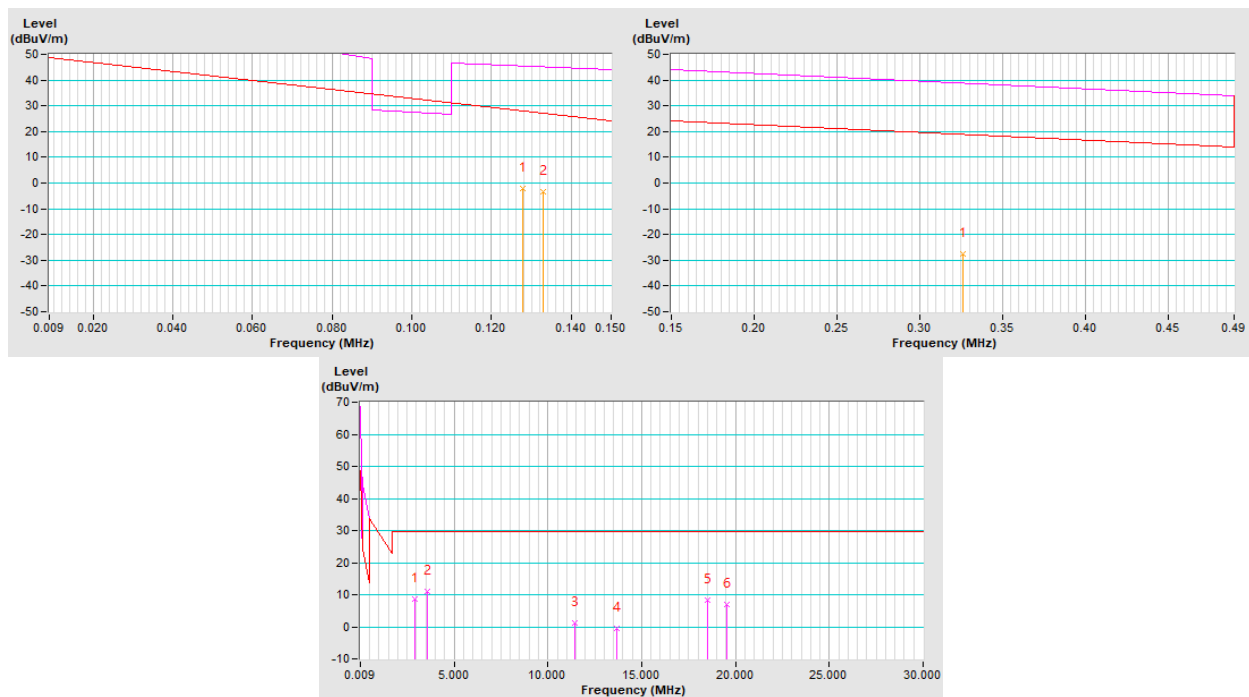


Channel	TX Channel 1 + 2	Detector Function	Average (AV) Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	C		

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	*0.1277	-2.30 AV	25.50	-27.80	1.00	0	58.30	-60.60
2	*0.1330	-3.60 AV	25.10	-28.70	1.00	311	57.00	-60.60
3	*0.3265	-27.70 AV	17.30	-45.00	1.00	77	32.50	-60.20
4	2.9200	8.60 QP	29.50	-20.90	1.00	10	29.30	-20.70
5	3.5700	11.00 QP	29.50	-18.50	1.00	3	31.50	-20.50
6	11.4400	1.30 QP	29.50	-28.20	1.00	119	20.00	-18.70
7	13.6600	-0.40 QP	29.50	-29.90	1.00	133	18.30	-18.70
8	18.5300	8.40 QP	29.50	-21.10	1.00	85	26.90	-18.50
9	19.5200	6.80 QP	29.50	-22.70	1.00	15	25.20	-18.40

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. 0.009 ~ 0.49MHz, the measured field strength was extrapolated to distance 300 meters Distance factor@3m = $40 \cdot \log(3/300) = -80\text{dB}$
For 0.49 ~ 30MHz, the measured field strength was extrapolated to distance 30 meters Distance factor@3m = $40 \cdot \log(3/30) = -40\text{dB}$

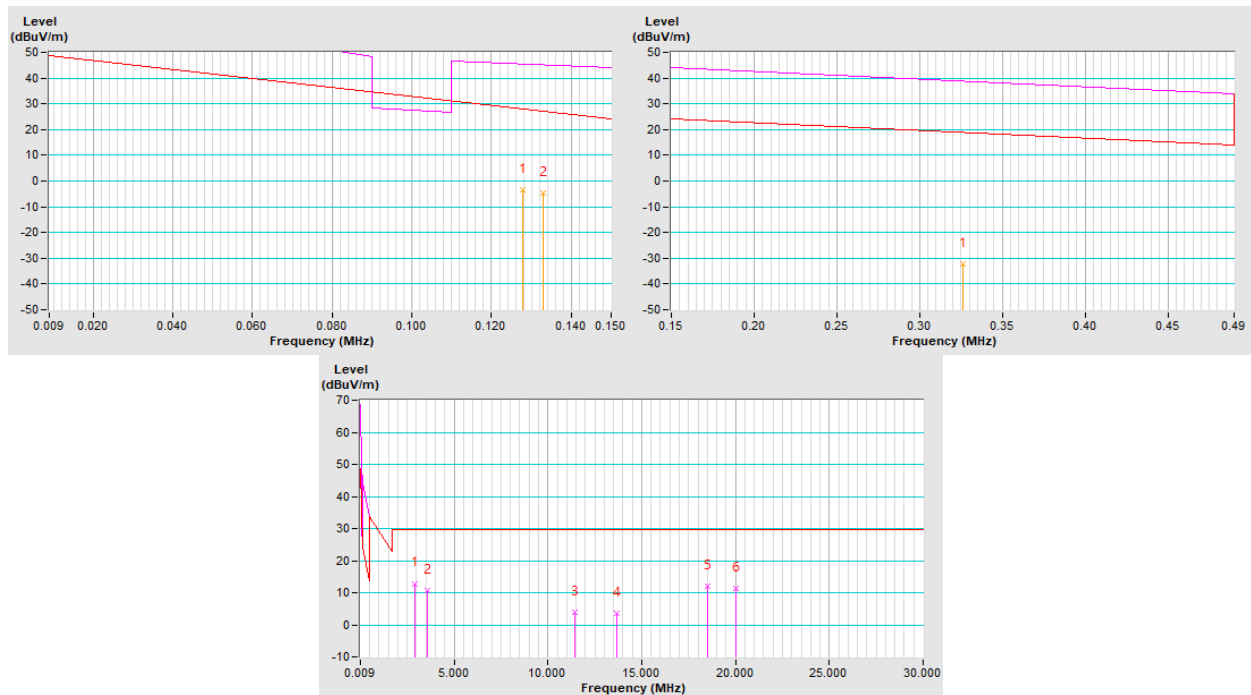


Channel	TX Channel 1 + 2	Detector Function	Average (AV) Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	C		

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	*0.1277	-3.30 AV	25.50	-28.80	1.00	82	57.30	-60.60
2	*0.1330	-4.60 AV	25.10	-29.70	1.00	46	56.00	-60.60
3	*0.3265	-32.30 AV	17.30	-49.60	1.00	210	27.90	-60.20
4	2.9200	12.90 QP	29.50	-16.60	1.00	141	33.60	-20.70
5	3.5700	10.70 QP	29.50	-18.80	1.00	270	31.20	-20.50
6	11.4400	3.80 QP	29.50	-25.70	1.00	12	22.50	-18.70
7	13.6600	3.40 QP	29.50	-26.10	1.00	265	22.10	-18.70
8	18.5300	12.00 QP	29.50	-17.50	1.00	25	30.50	-18.50
9	20.0000	11.50 QP	29.50	-18.00	1.00	214	29.90	-18.40

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. 0.009 ~ 0.49MHz, the measured field strength was extrapolated to distance 300 meters Distance factor@3m = $40 \cdot \log(3/300) = -80\text{dB}$
For 0.49 ~ 30MHz, the measured field strength was extrapolated to distance 30 meters Distance factor@3m = $40 \cdot \log(3/30) = -40\text{dB}$



Standby Mode

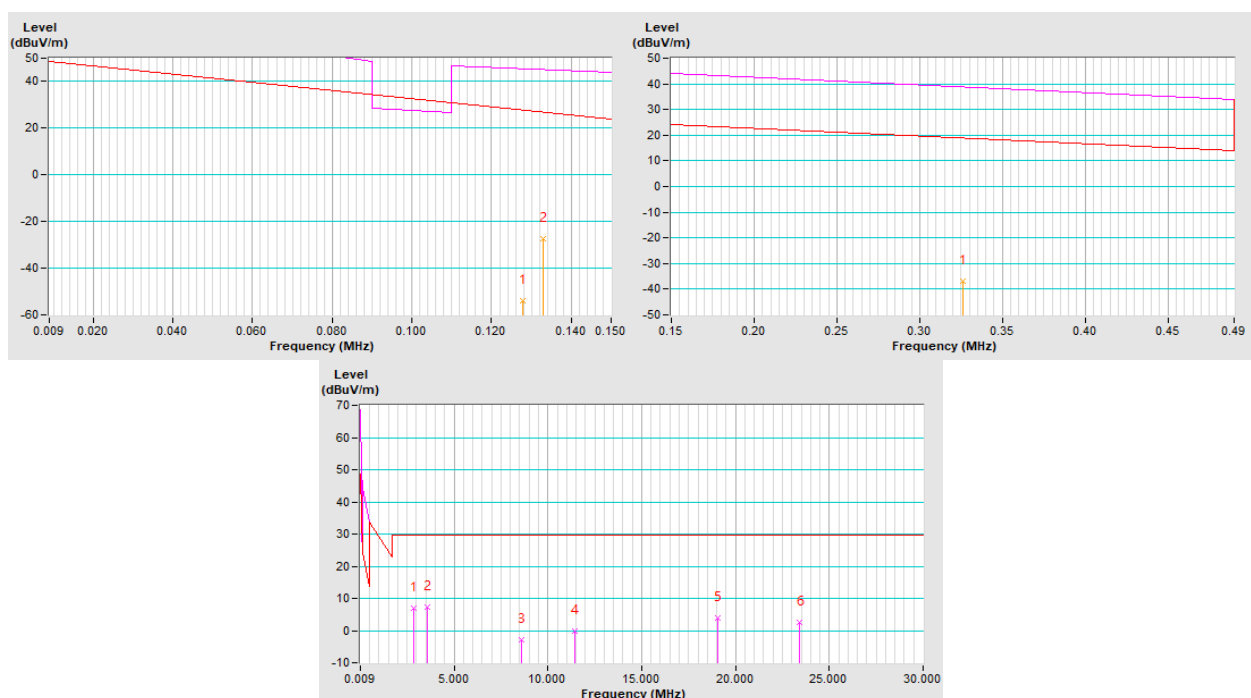
Channel	TX Channel 1 + 2	Detector Function	Average (AV)
Frequency Range	9 kHz ~ 30 MHz		Quasi-Peak (QP)
Test Mode	D		

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	*0.1277	-54.00 AV	25.50	-79.50	1.00	301	6.60	-60.60
2	*0.1330	-27.30 AV	25.10	-52.40	1.00	117	33.30	-60.60
3	*0.3265	-36.70 AV	17.30	-54.00	1.00	22	23.50	-60.20
4	2.8300	7.10 QP	29.50	-22.40	1.00	101	27.80	-20.70
5	3.5700	7.40 QP	29.50	-22.10	1.00	6	27.90	-20.50
6	8.5700	-2.90 QP	29.50	-32.40	1.00	300	16.20	-19.10
7	11.4400	-0.10 QP	29.50	-29.60	1.00	304	18.60	-18.70
8	19.0500	4.00 QP	29.50	-25.50	1.00	304	22.40	-18.40
9	23.4400	2.50 QP	29.50	-27.00	1.00	146	20.80	-18.30

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
5. “ * “: Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. 0.009 ~ 0.49MHz, the measured field strength was extrapolated to distance 300 meters Distance factor@3m = $40 \cdot \log(3/300) = -80\text{dB}$
For 0.49 ~ 30MHz, the measured field strength was extrapolated to distance 30 meters Distance factor@3m = $40 \cdot \log(3/30) = -40\text{dB}$

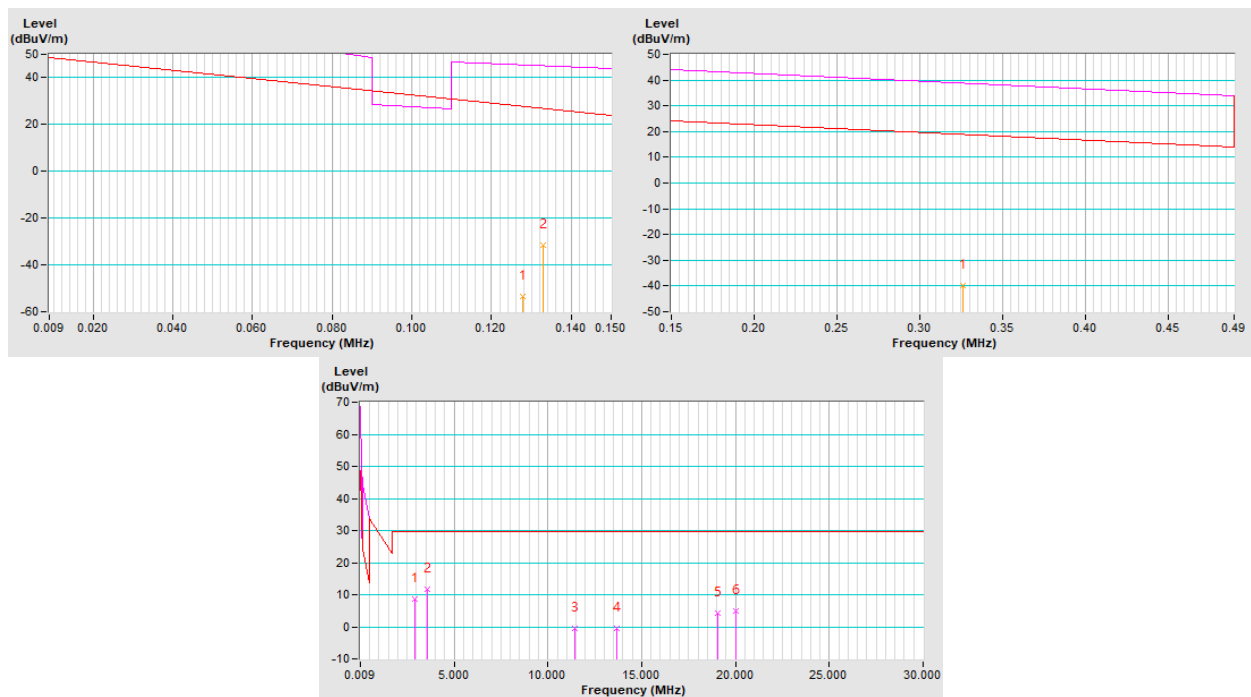


Channel	TX Channel 1 + 2	Detector Function	Average (AV) Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	D		

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	*0.1277	-53.30 AV	25.50	-78.80	1.00	226	7.30	-60.60
2	*0.1330	-31.40 AV	25.10	-56.50	1.00	339	29.20	-60.60
3	*0.3265	-39.70 AV	17.30	-57.00	1.00	57	20.50	-60.20
4	2.9200	8.70 QP	29.50	-20.80	1.00	68	29.40	-20.70
5	3.5700	11.60 QP	29.50	-17.90	1.00	295	32.10	-20.50
6	11.4400	-0.50 QP	29.50	-30.00	1.00	262	18.20	-18.70
7	13.6600	-0.50 QP	29.50	-30.00	1.00	39	18.20	-18.70
8	19.0500	4.20 QP	29.50	-25.30	1.00	3	22.60	-18.40
9	20.0000	5.00 QP	29.50	-24.50	1.00	290	23.40	-18.40

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. 0.009 ~ 0.49MHz, the measured field strength was extrapolated to distance 300 meters Distance factor@3m = $40 \cdot \log(3/300) = -80\text{dB}$
For 0.49 ~ 30MHz, the measured field strength was extrapolated to distance 30 meters Distance factor@3m = $40 \cdot \log(3/30) = -40\text{dB}$

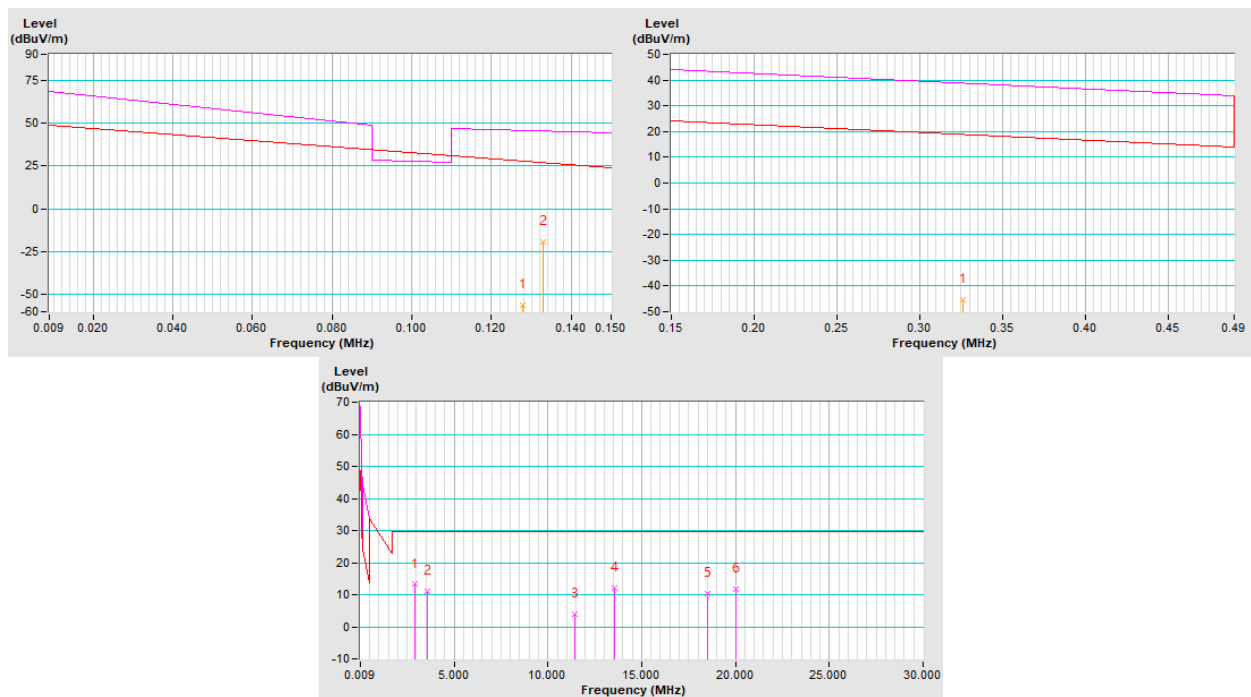


Channel	TX Channel 1 + 2	Detector Function	Average (AV) Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	D		

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	*0.1277	-56.00 AV	25.50	-81.50	1.00	77	4.60	-60.60
2	*0.1330	-19.40 AV	25.10	-44.50	1.00	119	41.20	-60.60
3	*0.3265	-45.50 AV	17.30	-62.80	1.00	36	14.70	-60.20
4	2.9200	13.20 QP	29.50	-16.30	1.00	231	33.90	-20.70
5	3.5700	11.00 QP	29.50	-18.50	1.00	287	31.50	-20.50
6	11.4400	3.90 QP	29.50	-25.60	1.00	13	22.60	-18.70
7	13.5700	12.10 QP	29.50	-17.40	1.00	106	30.80	-18.70
8	18.5300	10.30 QP	29.50	-19.20	1.00	92	28.80	-18.50
9	20.0000	11.60 QP	29.50	-17.90	1.00	348	30.00	-18.40

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. 0.009 ~ 0.49MHz, the measured field strength was extrapolated to distance 300 meters Distance factor@3m = $40 \cdot \log(3/300) = -80\text{dB}$
For 0.49 ~ 30MHz, the measured field strength was extrapolated to distance 30 meters Distance factor@3m = $40 \cdot \log(3/30) = -40\text{dB}$



Below 1GHz Data:

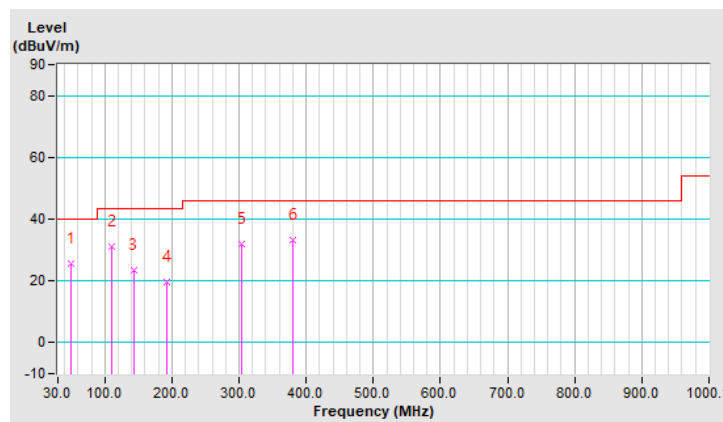
Charging Mode

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	49.68	25.7 QP	40.0	-14.3	1.99 H	238	34.8	-9.1
2	110.13	31.2 QP	43.5	-12.3	1.49 H	153	43.0	-11.8
3	142.46	23.5 QP	43.5	-20.0	1.00 H	154	32.3	-8.8
4	191.67	19.8 QP	43.5	-23.7	1.99 H	45	30.7	-10.9
5	304.13	31.9 QP	46.0	-14.1	1.00 H	128	38.5	-6.6
6	380.04	33.2 QP	46.0	-12.8	1.99 H	156	38.1	-4.9

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

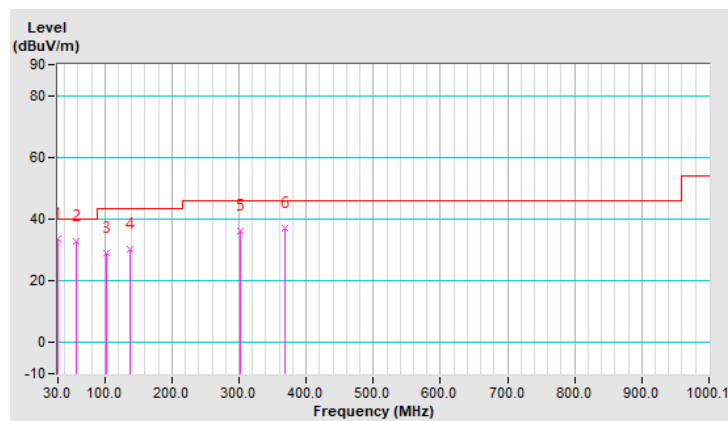


Channel	TX Channel 1	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	A		

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	30.00	33.7 QP	40.0	-6.3	1.51 V	6	44.3	-10.6
2	56.71	32.8 QP	40.0	-7.2	1.01 V	114	42.1	-9.3
3	103.10	28.9 QP	43.5	-14.6	1.01 V	172	41.6	-12.7
4	138.25	30.4 QP	43.5	-13.1	1.01 V	113	39.5	-9.1
5	301.32	36.1 QP	46.0	-9.9	1.51 V	321	42.8	-6.7
6	367.39	37.2 QP	46.0	-8.8	1.01 V	16	42.4	-5.2

Remarks:

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

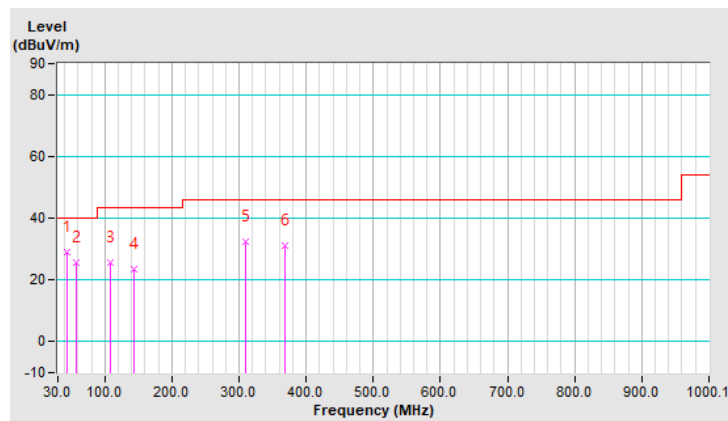


Channel	TX Channel 2	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	B		

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	44.06	28.8 QP	40.0	-11.2	1.51 H	24	38.0	-9.2
2	56.71	25.8 QP	40.0	-14.2	1.99 H	298	35.1	-9.3
3	107.32	25.7 QP	43.5	-17.8	1.51 H	191	37.8	-12.1
4	143.87	23.6 QP	43.5	-19.9	1.51 H	144	32.3	-8.7
5	309.75	32.4 QP	46.0	-13.6	1.01 H	140	38.9	-6.5
6	368.80	30.9 QP	46.0	-15.1	1.01 H	150	36.1	-5.2

Remarks:

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

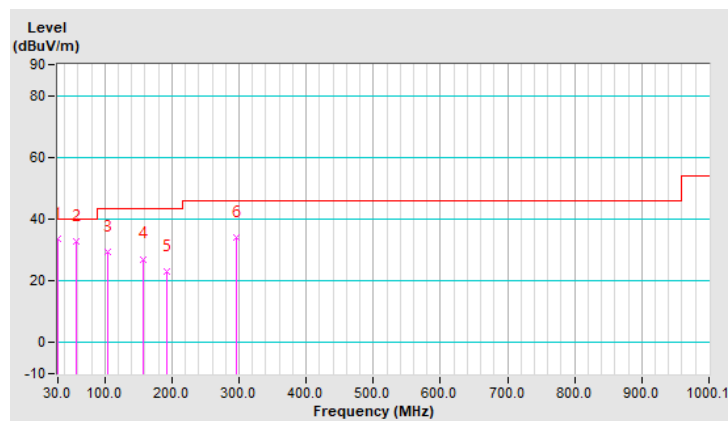


Channel	TX Channel 2	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	B		

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	30.00	33.8 QP	40.0	-6.2	1.49 V	292	44.4	-10.6
2	56.71	32.7 QP	40.0	-7.3	1.00 V	123	42.0	-9.3
3	104.51	29.5 QP	43.5	-14.0	1.00 V	52	41.9	-12.4
4	157.93	27.1 QP	43.5	-16.4	1.00 V	53	35.4	-8.3
5	191.67	22.9 QP	43.5	-20.6	1.00 V	67	33.8	-10.9
6	295.70	33.9 QP	46.0	-12.1	1.49 V	277	40.7	-6.8

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

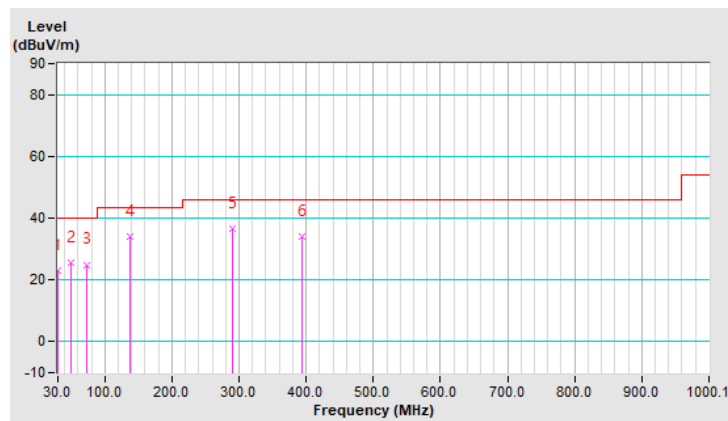


Channel	TX Channel 1 + 2	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	C		

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	30.00	22.9 QP	40.0	-17.1	1.99 H	4	33.5	-10.6
2	49.68	25.4 QP	40.0	-14.6	1.99 H	332	34.5	-9.1
3	72.17	25.0 QP	40.0	-15.0	1.51 H	214	36.4	-11.4
4	136.84	34.1 QP	43.5	-9.4	1.99 H	152	43.4	-9.3
5	290.07	36.4 QP	46.0	-9.6	1.01 H	18	43.3	-6.9
6	394.10	34.2 QP	46.0	-11.8	1.99 H	161	38.9	-4.7

Remarks:

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

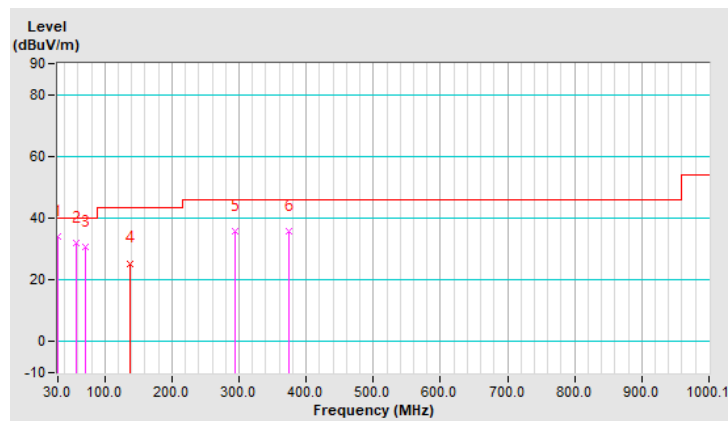


Channel	TX Channel 1 + 2	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	C		

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	30.00	34.0 QP	40.0	-6.0	1.49 V	270	44.6	-10.6
2	56.71	32.0 QP	40.0	-8.0	1.99 V	119	41.3	-9.3
3	70.77	30.6 QP	40.0	-9.4	1.00 V	5	41.6	-11.0
4	136.97	25.4 QP	43.5	-18.1	1.00 V	204	34.7	-9.3
5	294.29	35.6 QP	46.0	-10.4	1.49 V	276	42.4	-6.8
6	374.42	35.7 QP	46.0	-10.3	1.49 V	13	40.7	-5.0

Remarks:

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



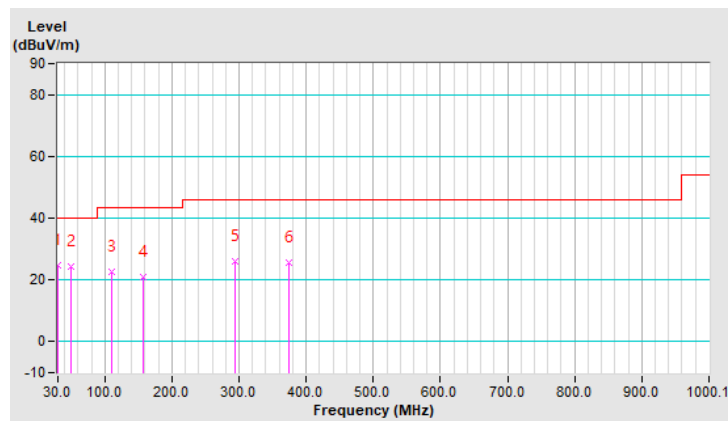
Standby Mode

Channel	TX Channel 1 + 2	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	30.00	24.8 QP	40.0	-15.2	1.01 H	195	35.4	-10.6
2	49.68	24.2 QP	40.0	-15.8	1.51 H	16	33.3	-9.1
3	110.13	22.6 QP	43.5	-20.9	1.51 H	10	34.4	-11.8
4	157.93	21.0 QP	43.5	-22.5	1.01 H	283	29.3	-8.3
5	294.29	26.1 QP	46.0	-19.9	1.01 H	145	32.9	-6.8
6	374.42	25.5 QP	46.0	-20.5	1.01 H	99	30.5	-5.0

Remarks:

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

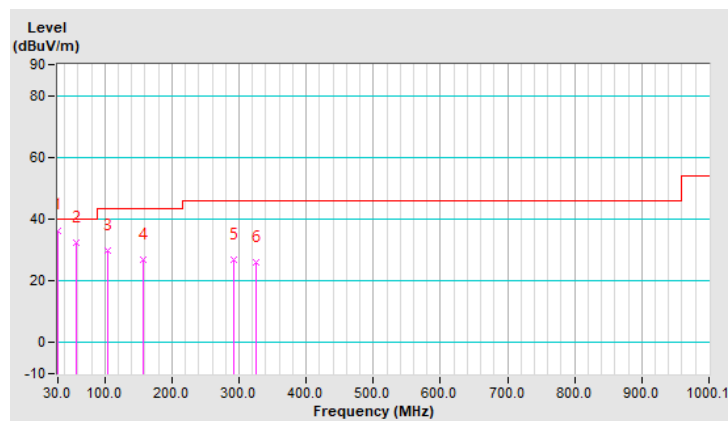


Channel	TX Channel 1 + 2	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	D		

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	30.00	36.4 QP	40.0	-3.6	1.49 V	237	47.0	-10.6
2	56.71	32.2 QP	40.0	-7.8	1.00 V	129	41.5	-9.3
3	104.51	29.9 QP	43.5	-13.6	1.00 V	163	42.3	-12.4
4	157.93	26.8 QP	43.5	-16.7	1.99 V	21	35.1	-8.3
5	291.48	26.9 QP	46.0	-19.1	1.99 V	194	33.8	-6.9
6	325.22	26.2 QP	46.0	-19.8	1.49 V	150	32.2	-6.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. 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. 04, 2020	Sep. 03, 2021
LISN ROHDE & SCHWARZ (EUT)	ENV216	101826	Feb. 20, 2020	Feb. 19, 2021
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Aug. 28, 2020	Aug. 27, 2021
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

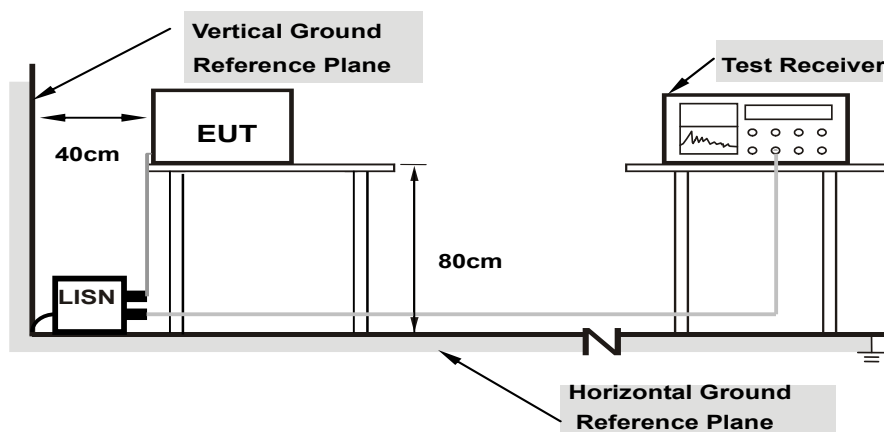
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance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

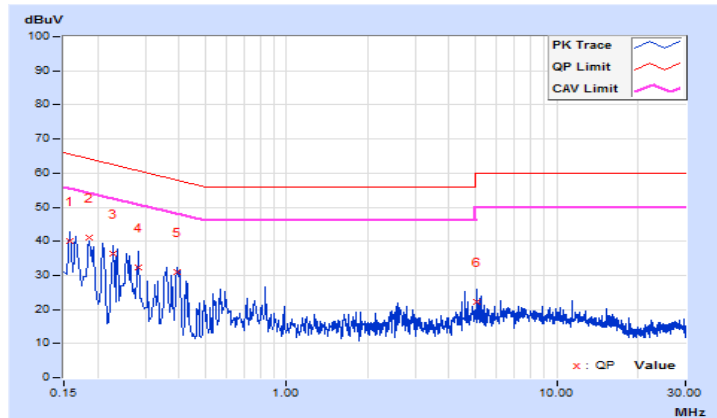
Charging Mode

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)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15782	9.65	30.34	13.22	39.99	22.87	65.58	55.58	-25.59	-32.71
2	0.18519	9.66	31.34	14.99	41.00	24.65	64.25	54.25	-23.25	-29.60
3	0.22820	9.66	26.87	8.46	36.53	18.12	62.51	52.51	-25.98	-34.39
4	0.28294	9.66	22.66	14.60	32.32	24.26	60.73	50.73	-28.41	-26.47
5	0.39633	9.66	21.44	20.70	31.10	30.36	57.93	47.93	-26.83	-17.57
6	5.08051	9.75	12.42	2.70	22.17	12.45	60.00	50.00	-37.83	-37.55

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.

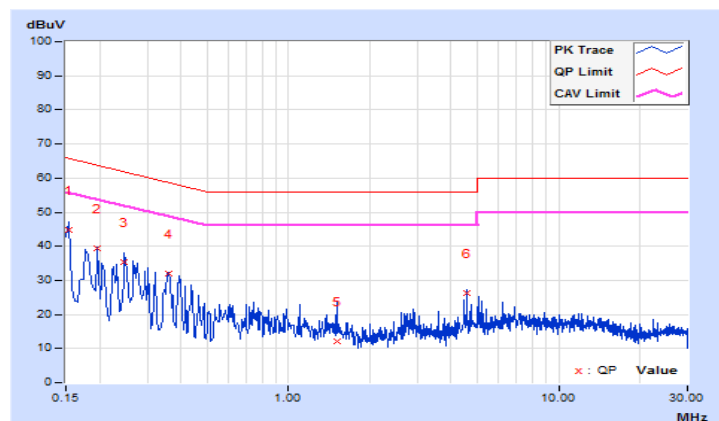


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	A		

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	0.15391	9.68	35.00	17.24	44.68	26.92	65.79	55.79	-21.11	-28.87
2	0.19692	9.68	29.78	10.25	39.46	19.93	63.74	53.74	-24.28	-33.81
3	0.24775	9.68	25.59	12.48	35.27	22.16	61.83	51.83	-26.56	-29.67
4	0.36048	9.68	22.28	19.71	31.96	29.39	58.72	48.72	-26.76	-19.33
5	1.50677	9.71	2.26	1.22	11.97	10.93	56.00	46.00	-44.03	-35.07
6	4.57221	9.78	16.45	2.99	26.23	12.77	56.00	46.00	-29.77	-33.23

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.

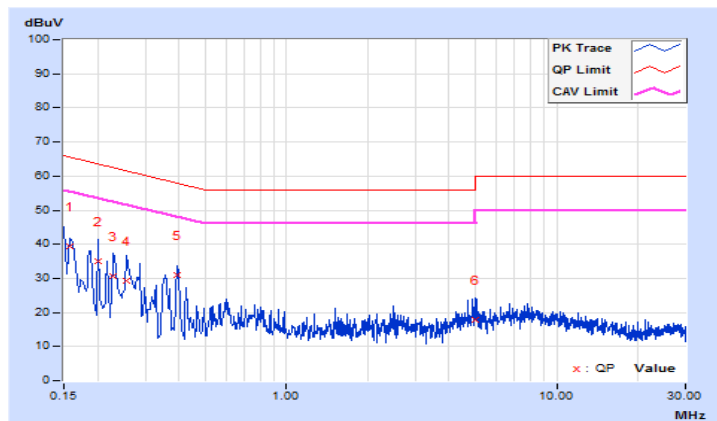


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
	[MHz]		[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15782	9.65	29.82	16.68	39.47	26.33	65.58	55.58	-26.11	-29.25
2	0.20083	9.66	25.32	14.15	34.98	23.81	63.58	53.58	-28.60	-29.77
3	0.22820	9.66	20.86	8.01	30.52	17.67	62.51	52.51	-31.99	-34.84
4	0.25557	9.66	19.56	5.96	29.22	15.62	61.57	51.57	-32.35	-35.95
5	0.39633	9.66	21.15	20.47	30.81	30.13	57.93	47.93	-27.12	-17.80
6	4.98276	9.75	8.06	1.33	17.81	11.08	56.00	46.00	-38.19	-34.92

Remarks:

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

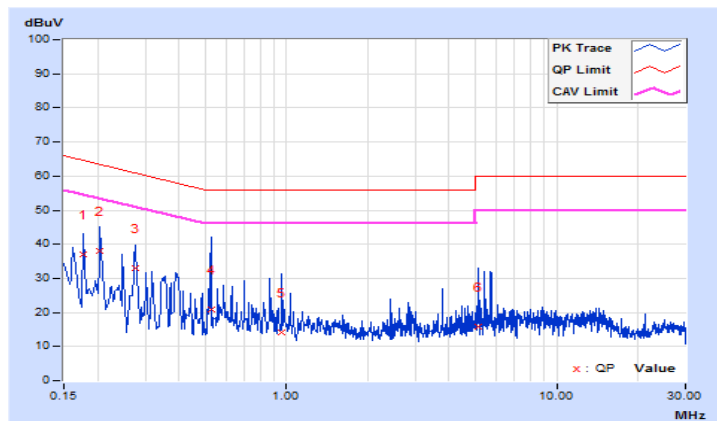


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

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	0.17737	9.68	27.52	11.85	37.20	21.53	64.61	54.61	-27.41	-33.08
2	0.20474	9.68	28.29	11.90	37.97	21.58	63.42	53.42	-25.45	-31.84
3	0.27512	9.68	23.33	15.50	33.01	25.18	60.96	50.96	-27.95	-25.78
4	0.52536	9.68	11.07	2.01	20.75	11.69	56.00	46.00	-35.25	-34.31
5	0.96328	9.69	4.41	1.39	14.10	11.08	56.00	46.00	-41.90	-34.92
6	5.11961	9.78	5.99	1.11	15.77	10.89	60.00	50.00	-44.23	-39.11

Remarks:

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

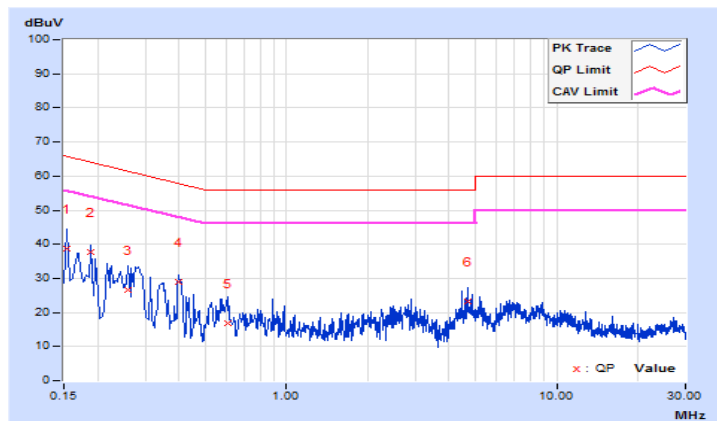


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	C		

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	9.65	29.01	15.12	38.66	24.77	65.79	55.79	-27.13	-31.02
2	0.18910	9.66	27.89	13.67	37.55	23.33	64.08	54.08	-26.53	-30.75
3	0.25948	9.66	17.09	7.92	26.75	17.58	61.45	51.45	-34.70	-33.87
4	0.40024	9.66	19.35	16.86	29.01	26.52	57.85	47.85	-28.84	-21.33
5	0.60356	9.66	7.16	1.58	16.82	11.24	56.00	46.00	-39.18	-34.76
6	4.67387	9.75	13.34	2.96	23.09	12.71	56.00	46.00	-32.91	-33.29

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.

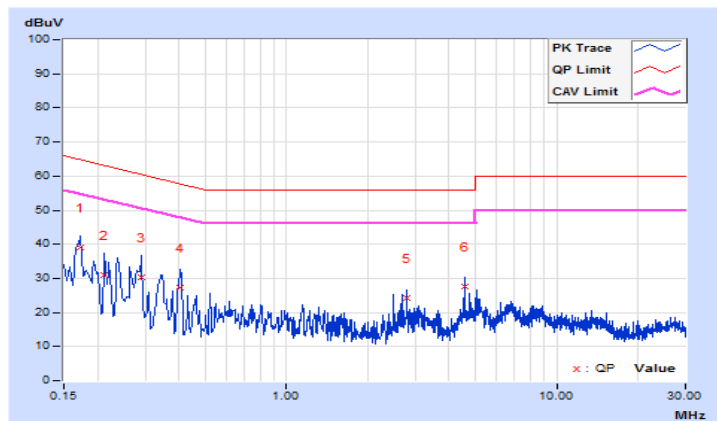


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	C		

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	0.17328	9.68	29.36	18.81	39.04	28.49	64.80	54.80	-25.76	-26.31
2	0.21256	9.68	21.14	8.35	30.82	18.03	63.10	53.10	-32.28	-35.07
3	0.29076	9.68	20.51	11.61	30.19	21.29	60.50	50.50	-30.31	-29.21
4	0.40415	9.68	17.57	14.68	27.25	24.36	57.77	47.77	-30.52	-23.41
5	2.79316	9.75	14.47	2.36	24.22	12.11	56.00	46.00	-31.78	-33.89
6	4.56830	9.78	17.70	4.51	27.48	14.29	56.00	46.00	-28.52	-31.71

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.



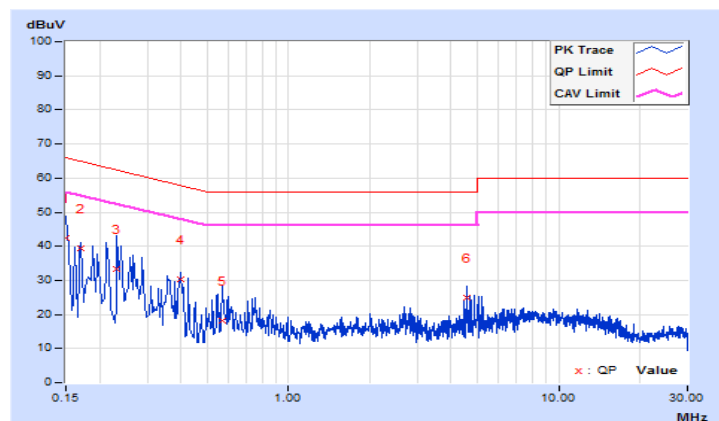
Standby Mode

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

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.65	32.83	16.11	42.48	25.76	66.00	56.00	-23.52	-30.24
2	0.16955	9.65	29.86	4.58	39.51	14.23	64.98	54.98	-25.47	-40.75
3	0.23211	9.66	23.56	1.57	33.22	11.23	62.37	52.37	-29.15	-41.14
4	0.40024	9.66	20.78	13.55	30.44	23.21	57.85	47.85	-27.41	-24.64
5	0.56837	9.66	8.42	1.38	18.08	11.04	56.00	46.00	-37.92	-34.96
6	4.57221	9.74	15.32	1.85	25.06	11.59	56.00	46.00	-30.94	-34.41

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.

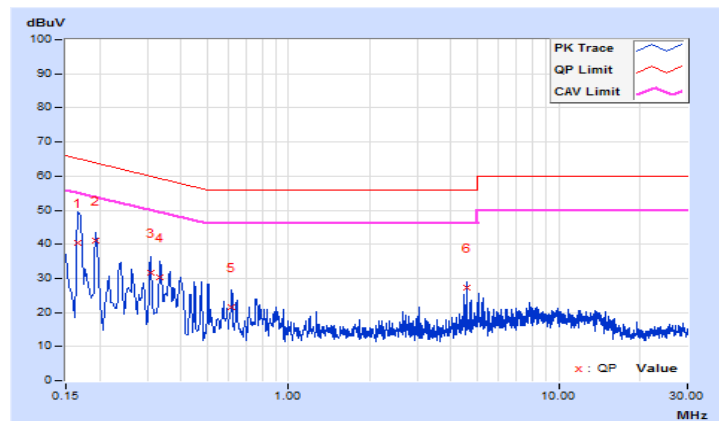


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	D		

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	0.16564	9.68	30.74	5.08	40.42	14.76	65.18	55.18	-24.76	-40.42
2	0.19301	9.68	31.29	6.93	40.97	16.61	63.91	53.91	-22.94	-37.30
3	0.31021	9.68	21.93	1.13	31.61	10.81	59.96	49.96	-28.35	-39.15
4	0.33377	9.68	20.56	1.39	30.24	11.07	59.36	49.36	-29.12	-38.29
5	0.61529	9.68	11.71	3.04	21.39	12.72	56.00	46.00	-34.61	-33.28
6	4.56830	9.78	17.54	3.59	27.32	13.37	56.00	46.00	-28.68	-32.63

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.

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

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

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