

FCC Test Report

Report No.: RF191231E04

FCC ID: JNZF00008

Test Model: F00008

Received Date: Dec. 31, 2019

Test Date: Jan. 10 to 15, 2020

Issued Date: Feb. 21, 2020

Applicant: LOGITECH FAR EAST LTD.

Address: #2 Creation Rd. 4, Science-Based Ind. Park Hsinchu Taiwan, R.O.C.

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

Lab Address: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,
Taiwan

Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,
Taiwan.

**FCC Registration /
Designation Number:** 723255 / TW2022



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Release Control Record

Issue No.	Description	Date Issued
RF191231E04	Original release.	Feb. 21, 2020

1 Certificate of Conformity

Product: Powered Wireless Charging Stand

Brand: Logitech

Test Model: F00008

Sample Status: ENGINEERING SAMPLE

Applicant: LOGITECH FAR EAST LTD.

Test Date: Jan. 10 to 15, 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 : Vivian Huang , **Date:** Feb. 21, 2020
Vivian Huang / Specialist

Approved by : Clark Lin , **Date:** Feb. 21, 2020
Clark Lin / Technical Manager

2 Summary of Test Results

47 CFR FCC Part 15, Subpart C (Section 15.209)

FCC Clause	Test Item	Result	Remarks
15.207	AC Power Conducted Emission	Pass	Meet the requirement of limit. Minimum passing margin is -3.70 dB at 0.15000MHz.
15.209	Radiated Emission Test	Pass	Meet the requirement of limit. Minimum passing margin is -7.95 dB at 0.999 MHz

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

2.1 Measurement Uncertainty

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

Measurement	Frequency	Expanded Uncertainty (k=2) ($\pm$)
Conducted Emissions at mains ports	150kHz ~ 30MHz	1.8 dB
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.0 dB
	30MHz ~ 1000MHz	4.8 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Powered Wireless Charging Stand
Brand	Logitech
Test Model	F00008
Sample Status	ENGINEERING SAMPLE
Rating	DC 19V from power adapter
Operating Frequency	127.795 kHz
Antenna Type	Coil Antenna
Field Strength	91.76 dBuV/m
Dimensions	85mm x 89mm x 111mm
Accessory Device	Adapter x1
Data Cable Supplied	NA
Maximum Power Output from the Charging Coil	10W

Note:

1. The EUT may have a lot of colors for marketing requirement.
2. The EUT could be supplied with a power adapter as the following table:

Brand	Model No.	Spec.
logi	AD2103320	Input: 100-240Vac, 50/60Hz, 0.7A Output: 19V, 1.32A DC cable: 1.5 m

3. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 Description of Test Modes

The following test frequency is provided to this EUT:

Operating Frequency (kHz)	Test Mode
127.795	Charging Mode
127.795	Standby Mode

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable To		Description
	RE<1G	PLC	
1	√	√	Charging Mode
2	√	√	Standby Mode

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

Radiated Emission Test (Below 1GHz):

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

Operating Frequency (kHz)	Tested Frequency (kHz)
127.795	127.795

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.

Operating Frequency (kHz)	Tested Frequency (kHz)
127.795	127.795

Test Condition:

Applicable To	Environmental Conditions	Input Power	Tested by
RE<1G	23 deg. C, 67% RH	120Vac, 60Hz	Andy Ho
PLC	25 deg. C, 75% RH	120Vac, 60Hz	Kevin Ko

3.3 Description of Support Units

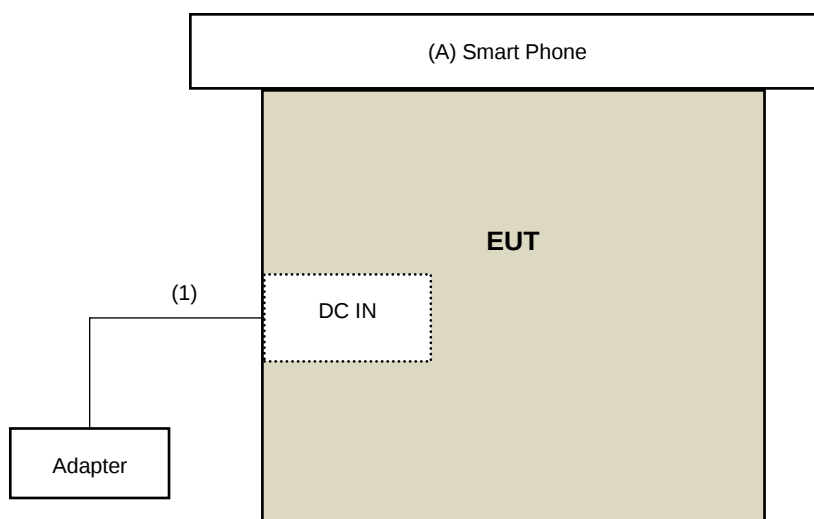
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Smart Phone	Apple	A2101	NA	NA	Supplied by client

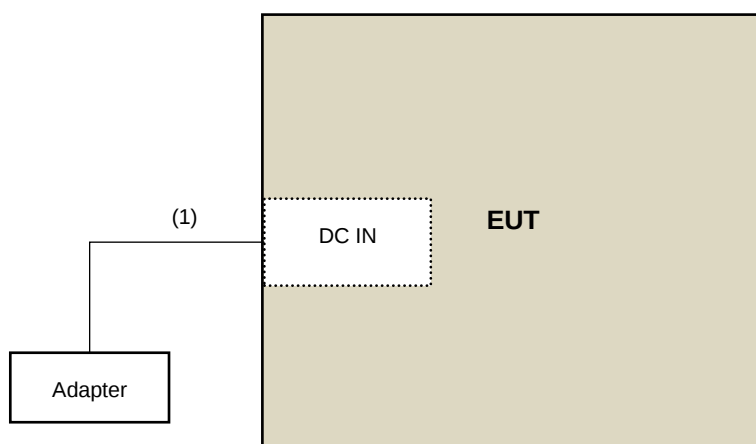
ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	DC Cable	1	1.5	No	0	Supplied by client

3.3.1 Configuration of System under Test

Charging Mode:



Standby Mode:



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:

47 CFR FCC Part 15, Subpart C (Section 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		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)	Field Strength		Measurement Distance (meters)
	uV/m	dBuV/m	
30-88	100	40.0	3
88-216	150	43.5	3
216-960	200	46.0	3
Above 960	500	54.0	3

4.1.2 Test Instruments

For 0.009 MHz ~ 30 MHz

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver ESR7 R&S	ESR7	102026	Apr. 24, 2019	Apr. 23, 2020
Spectrum Analyzer Keysight	N9030B	MY57141948	May 25, 2019	May 24, 2020
Pre-Amplifier EMCI	EMC001340	980142	May 30, 2019	May 29, 2020
Loop Antenna Electro-Metrics	EM-6879	269	Sep. 16, 2019	Sep. 15, 2020
RF Cable	NA	LOOPCAB-001	Jan. 08, 2020	Jan. 07, 2021
RF Cable	NA	LOOPCAB-002	Jan. 08, 2020	Jan. 07, 2021
Software	ADT_Radiated_V8.7.08	NA	NA	NA
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	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 966 Chamber No. 5.
3. Tested Date: Jan. 14 to 15, 2020

For 30 MHz ~ 1GHz

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver ESR7 R&S	ESR7	102026	Apr. 24, 2019	Apr. 23, 2020
Spectrum Analyzer Keysight	N9030B	MY57141948	May 25, 2019	May 24, 2020
Pre-Amplifier EMCI	EMC330N	980538	Apr. 30, 2019	Apr. 29, 2020
Trilog Broadband Antenna SCHWARZBECK	VULB9168	9168-0842	Nov. 08, 2019	Nov. 07, 2020
RF Cable	8D	966-5-1	May 03, 2019	May 02, 2020
RF Cable	8D	966-5-2	May 03, 2019	May 02, 2020
RF Cable	8D	966-5-3	May 03, 2019	May 02, 2020
Fixed attenuator Mini-Circuits	UNAT-5+	PAD-ATT5-02	Jan. 28, 2019	Jan. 27, 2020
Software	ADT_Radiated_V8.7.08	NA	NA	NA
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	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 966 Chamber No. 5.
3. Tested Date: Jan. 10, 2020

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

For Radiated emission above 30MHz

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

Note:

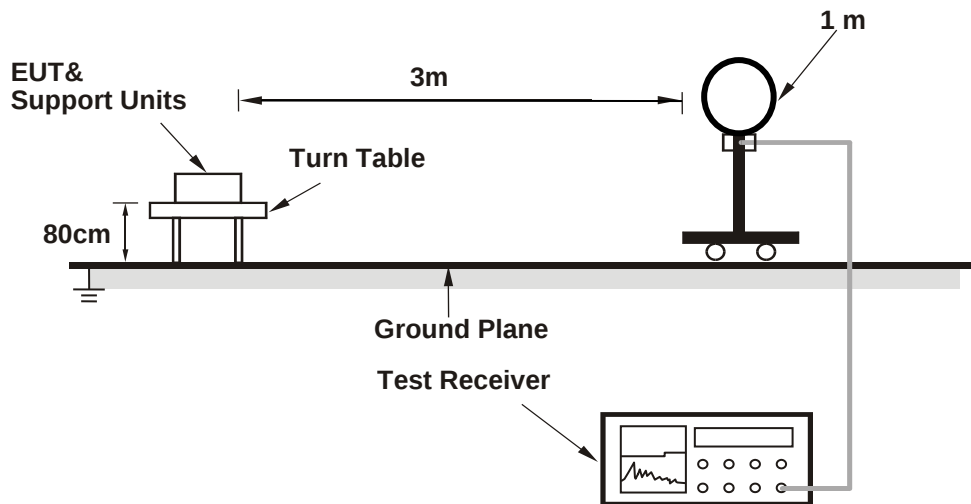
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (AV) at frequency below 1GHz.
2. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

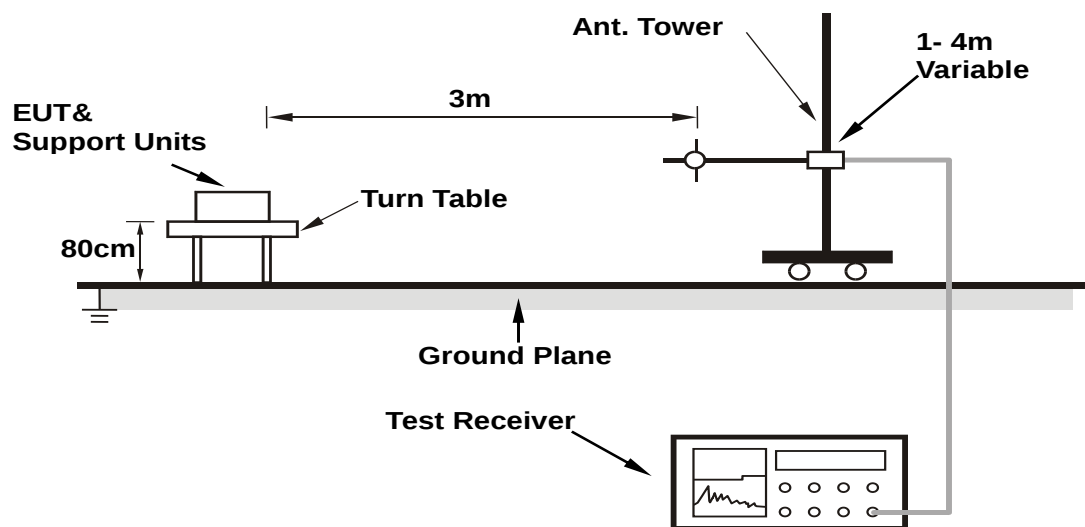
No deviation.

4.1.5 Test Set Up

For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



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

4.1.6 EUT Operating Conditions

Test Mode 1:

- The EUT powered by adapter.
- The EUT is under the test mode when turn on the power.

Test Mode 2:

- The EUT powered by adapter.
- Set the EUT under standby condition.

4.1.7 Test Results

Below 30MHz Data:

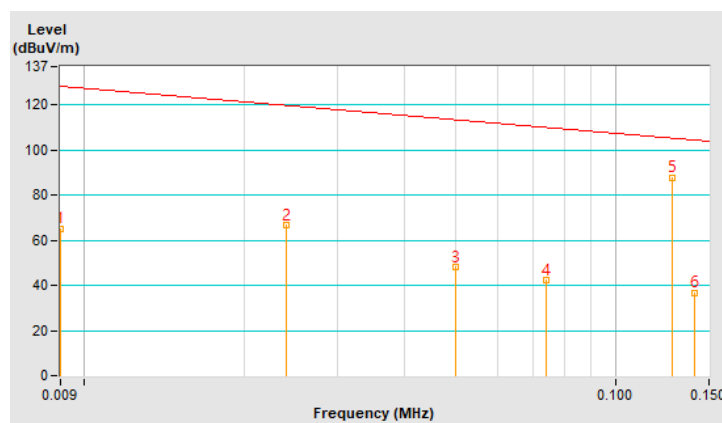
Charging Mode

TEST FREQUENCY	127.795 kHz	DETECTOR FUNCTION	Average (AV)
FREQUENCY RANGE	9kHz ~ 150kHz		

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PARALLEL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	0.009	64.97 AV	128.50	-63.53	1	119	27.14	37.83
2	0.024	66.64 AV	119.99	-53.35	1	0	36.20	30.44
3	0.050	47.93 AV	113.62	-65.69	1	116	24.79	23.14
4	0.074	42.10 AV	110.21	-68.11	1	147	22.14	19.96
5	*0.128	87.72 AV	105.46	-17.74	1	264	72.30	15.42
6	0.141	36.59 AV	104.62	-68.03	1	147	21.71	14.88

REMARKS:

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

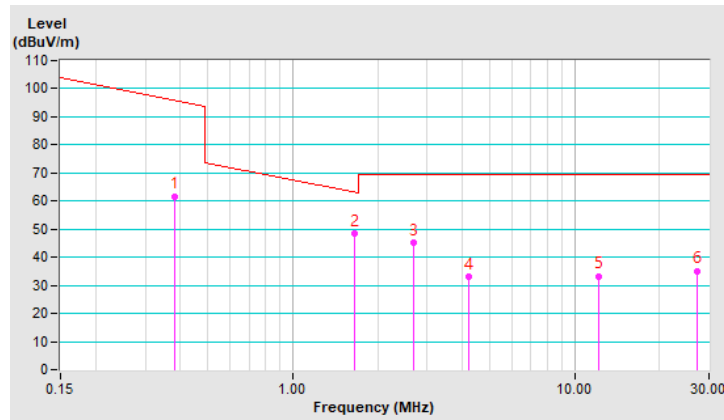


TEST FREQUENCY	127.795 kHz	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	150kHz ~ 30MHz		

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PARALLEL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	0.383	61.51 QP	95.94	-34.43	1	310	54.58	6.93
2	1.660	48.27 QP	63.20	-14.93	1	149	48.63	-0.36
3	2.683	45.06 QP	69.50	-24.44	1	265	47.68	-2.62
4	4.217	32.90 QP	69.50	-36.60	1	173	36.30	-3.40
5	12.201	33.08 QP	69.50	-36.42	1	211	36.08	-3.00
6	27.161	35.08 QP	69.50	-34.42	1	149	38.34	-3.26

REMARKS:

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

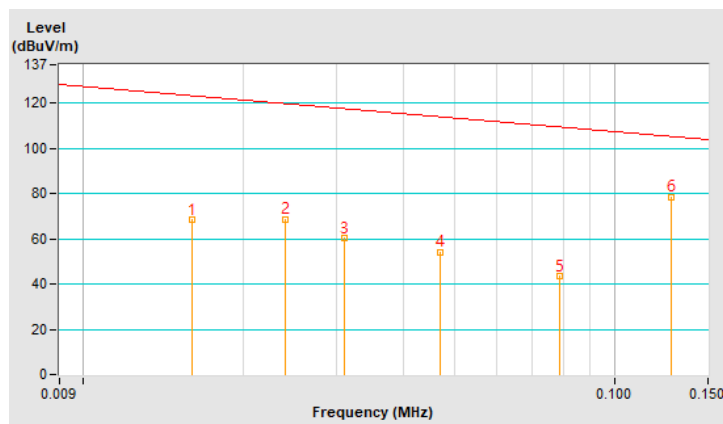


TEST FREQUENCY	127.795 kHz	DETECTOR FUNCTION	Average (AV)
FREQUENCY RANGE	9kHz ~ 150kHz		

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PERPENDICULAR AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	0.016	68.31 AV	123.51	-55.20	1	102	34.17	34.14
2	0.024	68.59 AV	119.99	-51.40	1	311	38.15	30.44
3	0.031	60.19 AV	117.77	-57.58	1	314	32.62	27.57
4	0.047	54.16 AV	114.15	-59.99	1	256	30.33	23.83
5	0.079	43.39 AV	109.65	-66.26	1	291	24.08	19.31
6	*0.128	78.32 AV	105.46	-27.14	1	305	62.90	15.42

REMARKS:

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

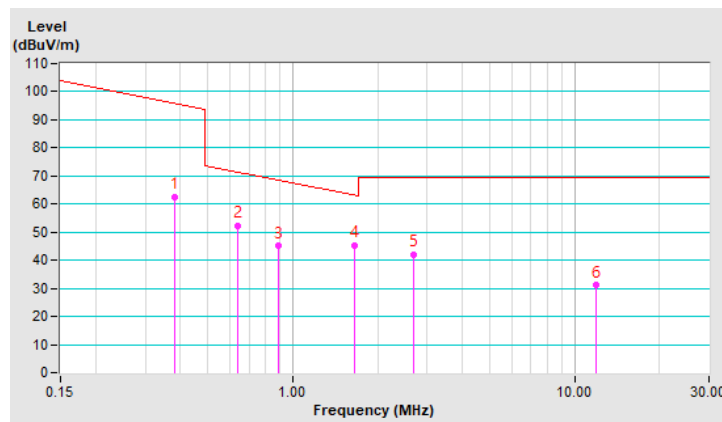


TEST FREQUENCY	127.795 kHz	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	150kHz ~ 30MHz		

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PERPENDICULAR AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	0.383	62.41 QP	95.94	-33.53	1	206	55.48	6.93
2	0.638	52.13 QP	71.51	-19.38	1	265	48.25	3.88
3	0.893	44.98 QP	68.59	-23.61	1	149	43.08	1.90
4	1.660	45.34 QP	63.20	-17.86	1	30	45.70	-0.36
5	2.681	41.91 QP	69.50	-27.59	1	267	44.52	-2.61
6	11.955	31.02 QP	69.50	-38.48	1	159	33.97	-2.95

REMARKS:

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

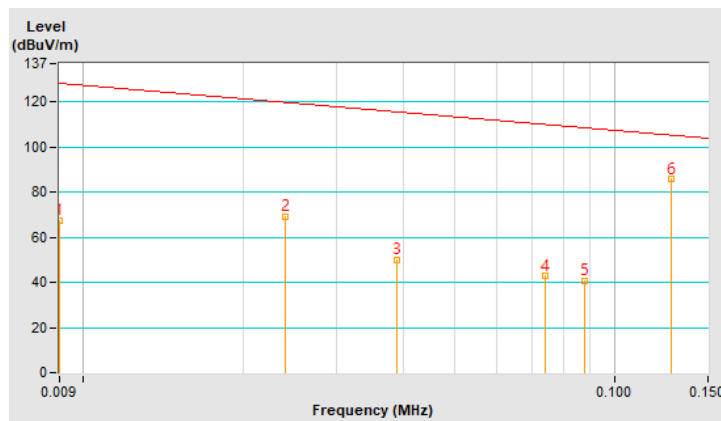


TEST FREQUENCY	127.795 kHz	DETECTOR FUNCTION	Average (AV)
FREQUENCY RANGE	9kHz ~ 150kHz		

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA GROUND-PARALLEL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	0.009	67.60 AV	128.50	-60.90	1	105	29.77	37.83
2	0.024	69.13 AV	119.99	-50.86	1	264	38.69	30.44
3	0.039	50.08 AV	115.77	-65.69	1	213	24.40	25.68
4	0.074	42.80 AV	110.21	-67.41	1	265	22.84	19.96
5	0.088	40.62 AV	108.71	-68.09	1	302	22.48	18.14
6	*0.128	85.64 AV	105.46	-19.82	1	233	70.22	15.42

REMARKS:

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

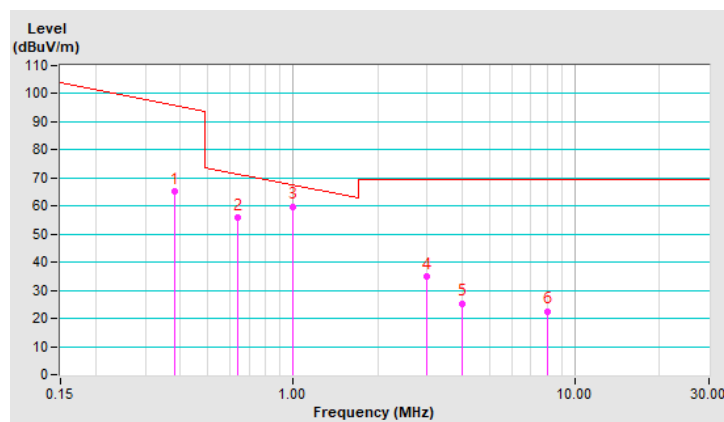


TEST FREQUENCY	127.795 kHz	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	150kHz ~ 30MHz		

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA GROUND-PARALLEL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	0.383	65.03 QP	95.94	-30.91	1	331	58.10	6.93
2	0.638	55.73 QP	71.51	-15.78	1	145	51.85	3.88
3	0.999	59.66 QP	67.61	-7.95	1	262	58.57	1.09
4	2.999	34.76 QP	69.50	-34.74	1	141	38.08	-3.32
5	3.999	25.39 QP	69.50	-44.11	1	179	28.77	-3.38
6	7.999	22.57 QP	69.50	-46.93	1	224	25.52	-2.95

REMARKS:

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



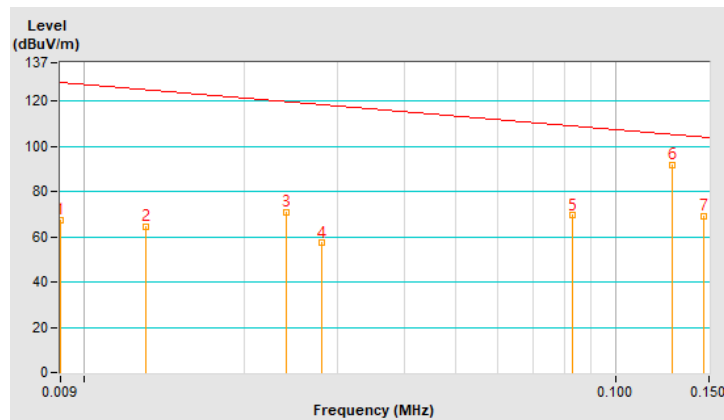
Standby Mode

TEST FREQUENCY	127.795 kHz	DETECTOR FUNCTION	Average (AV)
FREQUENCY RANGE	9kHz ~ 150kHz		

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PARALLEL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	0.009	67.31 AV	128.50	-61.19	1	264	29.48	37.83
2	0.013	64.69 AV	125.31	-60.62	1	132	29.09	35.60
3	0.024	70.76 AV	119.99	-49.23	1	265	40.32	30.44
4	0.028	57.29 AV	118.65	-61.36	1	113	28.60	28.69
5	0.083	69.42 AV	109.22	-39.80	1	163	50.63	18.79
6	*0.128	91.76 AV	105.46	-13.70	1	145	76.34	15.42

REMARKS:

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

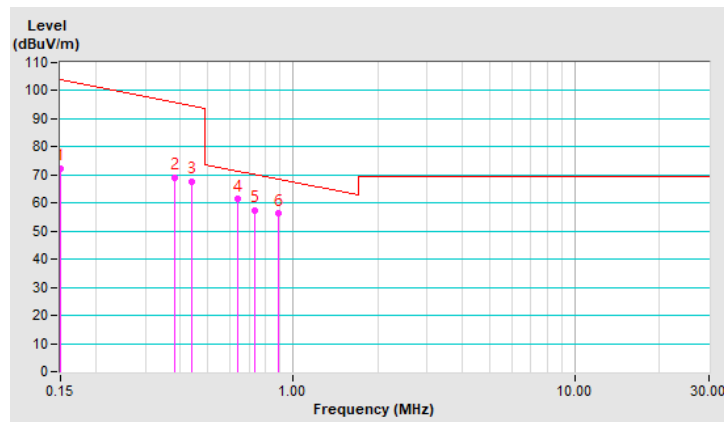


TEST FREQUENCY	127.795 kHz	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	150kHz ~ 30MHz		

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PARALLEL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	0.150	72.27 QP	104.08	-31.81	1	216	57.77	14.50
2	0.383	69.02 QP	95.94	-26.92	1	176	62.09	6.93
3	0.438	67.77 QP	94.77	-27.00	1	202	61.77	6.00
4	0.638	61.39 QP	71.51	-10.12	1	231	57.51	3.88
5	0.732	57.28 QP	70.31	-13.03	1	247	54.13	3.15
6	0.893	56.20 QP	68.59	-12.39	1	141	54.30	1.90

REMARKS:

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

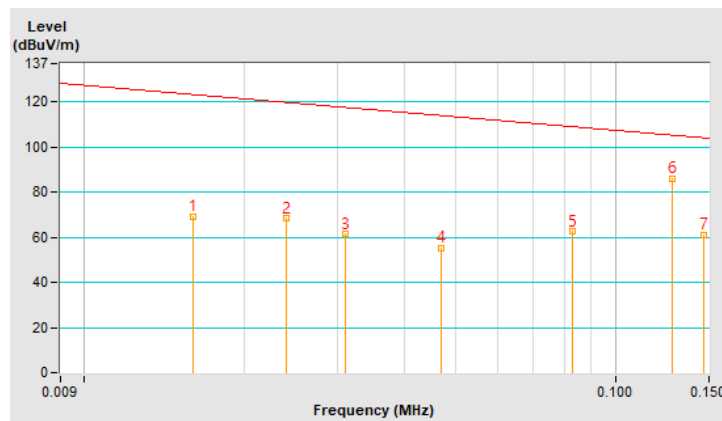


TEST FREQUENCY	127.795 kHz	DETECTOR FUNCTION	Average (AV)
FREQUENCY RANGE	9kHz ~ 150kHz		

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PERPENDICULAR AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	0.016	69.17 AV	123.51	-54.34	1	241	35.03	34.14
2	0.024	68.23 AV	119.99	-51.76	1	265	37.79	30.44
3	0.031	61.43 AV	117.77	-56.34	1	262	33.86	27.57
4	0.047	55.18 AV	114.15	-58.97	1	233	31.35	23.83
5	0.083	62.61 AV	109.22	-46.61	1	134	43.82	18.79
6	*0.128	85.99 AV	105.46	-19.47	1	226	70.57	15.42
7	0.147	61.12 AV	104.26	-43.14	1	301	46.49	14.63

REMARKS:

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

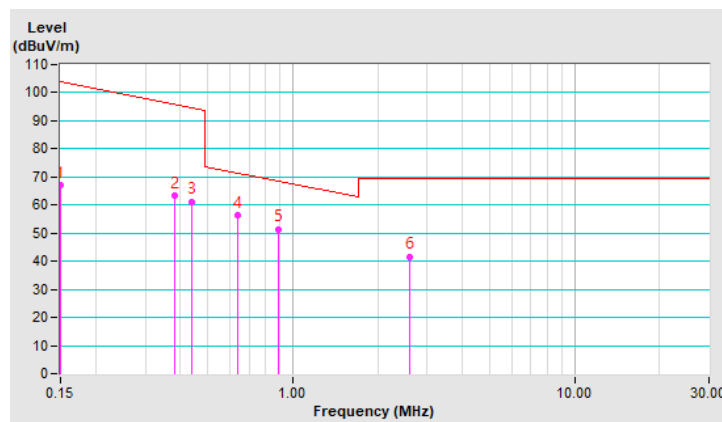


TEST FREQUENCY	127.795 kHz	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	150kHz ~ 30MHz		

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PERPENDICULAR AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	0.150	66.94 QP	104.08	-37.14	1	145	52.44	14.50
2	0.383	63.21 QP	95.94	-32.73	1	129	56.28	6.93
3	0.438	61.23 QP	94.77	-33.54	1	264	55.23	6.00
4	0.638	56.21 QP	71.51	-15.30	1	138	52.33	3.88
5	0.893	51.24 QP	68.59	-17.35	1	214	49.34	1.90
6	2.608	41.44 QP	69.50	-28.06	1	118	43.90	-2.46

REMARKS:

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

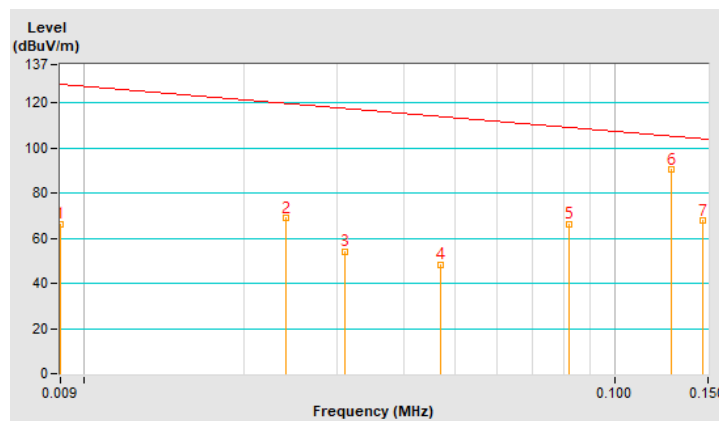


TEST FREQUENCY	127.795 kHz	DETECTOR FUNCTION	Average (AV)
FREQUENCY RANGE	9kHz ~ 150kHz		

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA GROUND-PARALLEL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	0.009	66.41 AV	128.50	-62.09	1	263	28.58	37.83
2	0.024	68.94 AV	119.99	-51.05	1	311	38.50	30.44
3	0.031	54.09 AV	117.77	-63.68	1	265	26.52	27.57
4	0.047	48.44 AV	114.15	-65.71	1	302	24.61	23.83
5	0.082	66.22 AV	109.32	-43.10	1	269	47.30	18.92
6	*0.128	90.31 AV	105.46	-15.15	1	117	74.89	15.42
7	0.147	67.66 AV	104.26	-36.60	1	301	53.03	14.63

REMARKS:

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

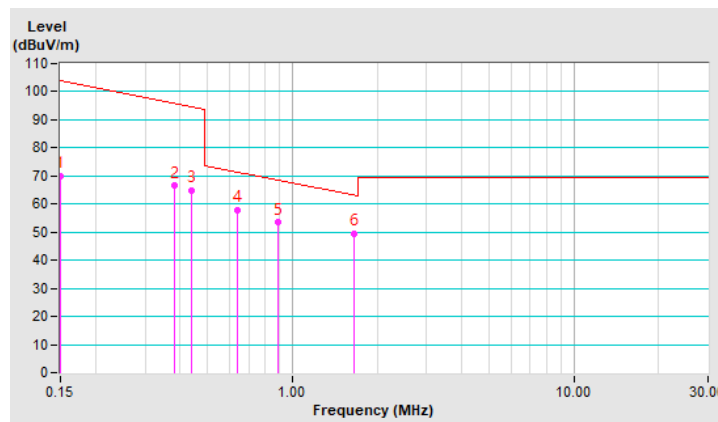


TEST FREQUENCY	127.795 kHz	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	150kHz ~ 30MHz		

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA GROUND-PARALLEL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	0.150	69.83 QP	104.08	-34.25	1	241	55.33	14.50
2	0.383	66.45 QP	95.94	-29.49	1	132	59.52	6.93
3	0.438	64.93 QP	94.77	-29.84	1	165	58.93	6.00
4	0.638	57.81 QP	71.51	-13.70	1	249	53.93	3.88
5	0.893	53.48 QP	68.59	-15.11	1	133	51.58	1.90
6	1.660	49.34 QP	63.20	-13.86	1	302	49.70	-0.36

REMARKS:

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



Above 30MHz Data:

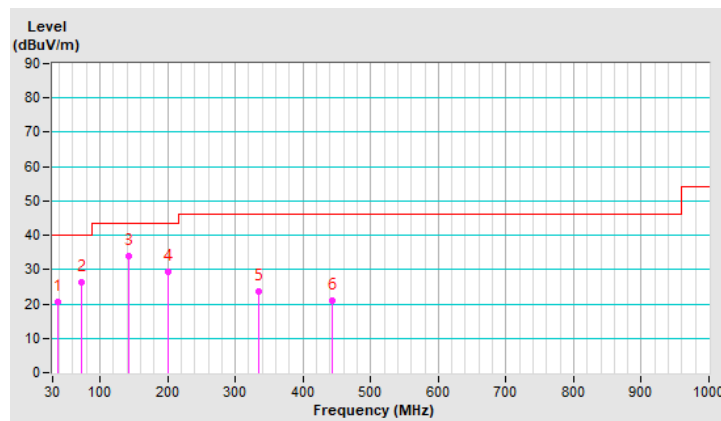
Charging Mode

TEST FREQUENCY	127.795 kHz	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	36.89	20.5 QP	40.0	-19.5	1.00 H	57	39.0	-18.5
2	72.97	26.4 QP	40.0	-13.6	3.00 H	146	47.1	-20.7
3	141.90	33.8 QP	43.5	-9.7	1.50 H	253	51.7	-17.9
4	199.95	29.3 QP	43.5	-14.2	1.50 H	217	50.4	-21.1
5	334.40	23.6 QP	46.0	-22.4	1.00 H	43	39.8	-16.2
6	443.73	21.1 QP	46.0	-24.9	2.00 H	189	34.4	-13.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.

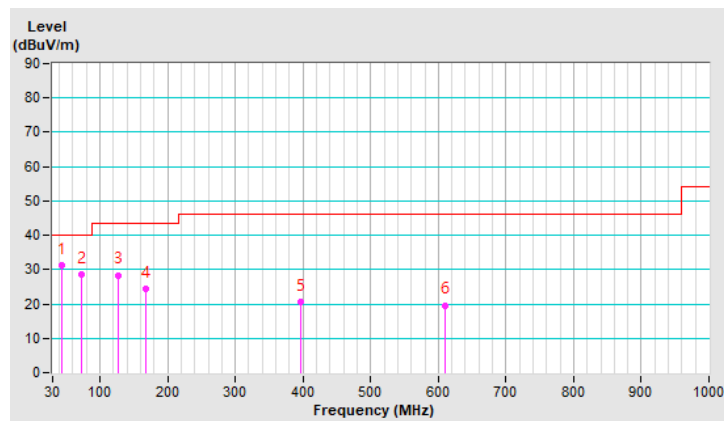


TEST FREQUENCY	127.795 kHz	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	43.92	31.4 QP	40.0	-8.6	1.00 V	120	49.2	-17.8
2	71.95	28.5 QP	40.0	-11.5	1.00 V	165	49.0	-20.5
3	126.76	28.4 QP	43.5	-15.1	1.00 V	208	47.7	-19.3
4	168.18	24.3 QP	43.5	-19.2	1.00 V	230	42.4	-18.1
5	397.26	20.7 QP	46.0	-25.3	1.00 V	360	35.6	-14.9
6	609.12	19.6 QP	46.0	-26.4	1.50 V	320	29.4	-9.8

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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.



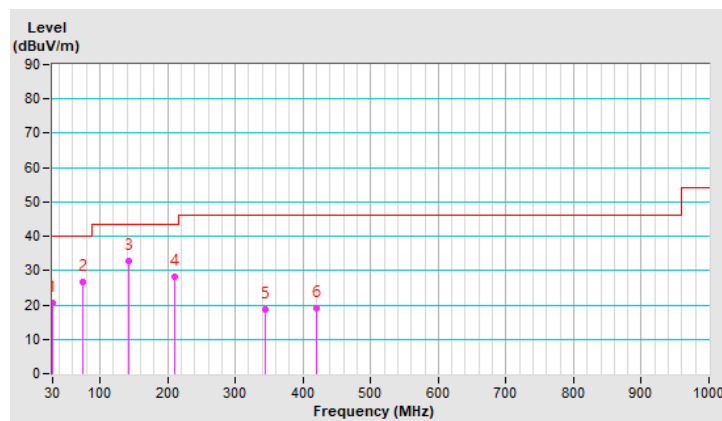
Standby Mode

TEST FREQUENCY	127.795 kHz	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	30.58	20.6 QP	40.0	-19.4	1.00 H	6	39.8	-19.2
2	75.40	26.6 QP	40.0	-13.4	2.00 H	1	47.9	-21.3
3	142.62	32.7 QP	43.5	-10.8	1.50 H	257	50.6	-17.9
4	209.60	28.3 QP	43.5	-15.2	1.50 H	111	49.4	-21.1
5	343.81	18.7 QP	46.0	-27.3	1.00 H	37	34.9	-16.2
6	420.78	19.1 QP	46.0	-26.9	2.00 H	1	33.4	-14.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.

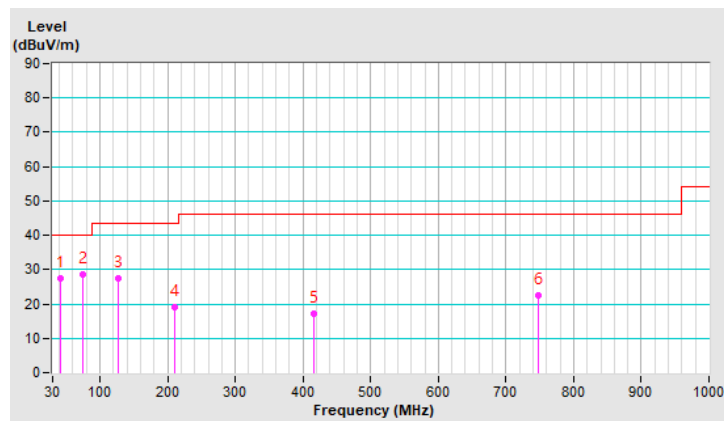


TEST FREQUENCY	127.795 kHz	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	42.32	27.4 QP	40.0	-12.6	1.50 V	1	45.4	-18.0
2	74.04	28.5 QP	40.0	-11.5	1.00 V	135	49.4	-20.9
3	127.93	27.5 QP	43.5	-16.0	1.00 V	99	46.6	-19.1
4	210.09	19.0 QP	43.5	-24.5	2.50 V	302	40.1	-21.1
5	415.21	17.3 QP	46.0	-28.7	2.50 V	244	31.8	-14.5
6	746.96	22.6 QP	46.0	-23.4	2.50 V	324	30.7	-8.1

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.



4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

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

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

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

4.2.2 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver R&S	ESCS 30	847124/029	Oct. 23, 2019	Oct. 22, 2020
Line-Impedance Stabilization Network (for EUT) R&S	ESH3-Z5	848773/004	Oct. 23, 2019	Oct. 22, 2020
Line-Impedance Stabilization Network (for Peripheral) R&S	ESH3-Z5	835239/001	Mar. 17, 2019	Mar. 16, 2020
50 ohms Terminator	50	3	Oct. 23, 2019	Oct. 22, 2020
RF Cable	5D-FB	COCCAB-001	Sep. 27, 2019	Sep. 26, 2020
Fixed attenuator EMCI	STI02-2200-10	003	Mar. 14, 2019	Mar. 13, 2020
Software BVADT	BVADT_Cond_V7.3.7.4	NA	NA	NA

Note:

1. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in Conduction 1.
- 3 Tested Date: Jan. 15, 2020

4.2.3 Test Procedures

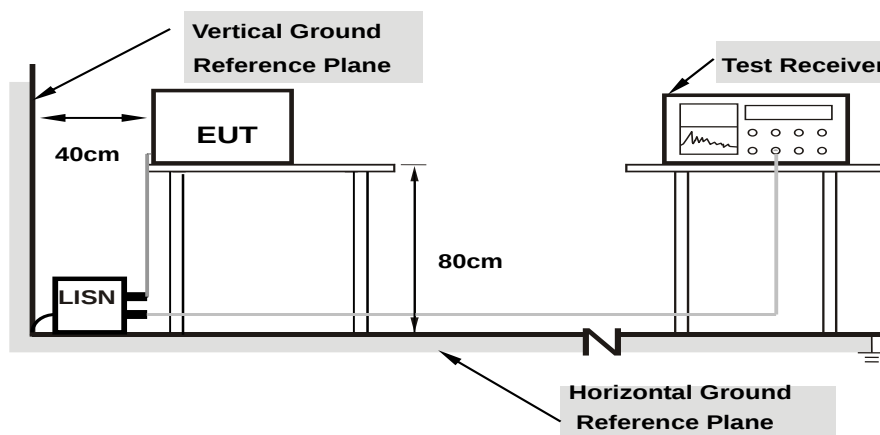
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance 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 (AV) and average detection (AV) at frequency 0.15MHz-30MHz.

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 Test Setup



Note: Support units were connected to second LISN.

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

4.2.6 EUT Operating Conditions

Same as item 4.1.6.

4.2.7 Test Results

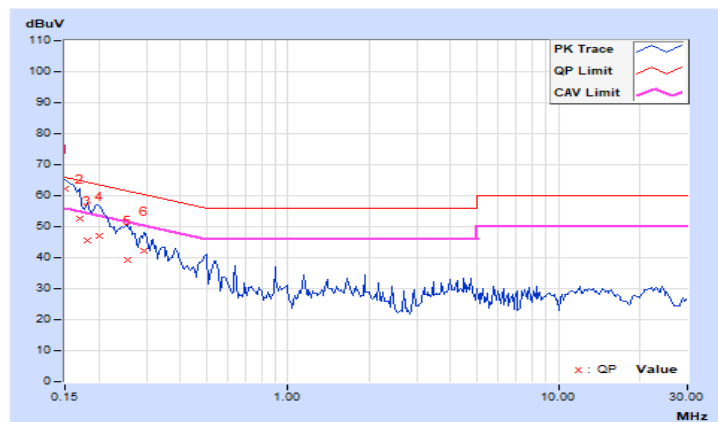
Charging Mode

Frequency Range	150kHz ~ 30MHz	Detector Function	Quasi-Peak (QP) / Average (AV)
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Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.99	52.31	41.84	62.30	51.83	66.00	56.00	-3.70	-4.17
2	0.16953	9.99	42.53	24.83	52.52	34.82	64.98	54.98	-12.46	-20.16
3	0.18125	9.99	35.52	17.86	45.51	27.85	64.43	54.43	-18.92	-26.58
4	0.20078	9.99	37.05	27.11	47.04	37.10	63.58	53.58	-16.54	-16.48
5	0.25547	9.99	29.26	17.84	39.25	27.83	61.58	51.58	-22.33	-23.75
6	0.29453	9.99	32.37	22.81	42.36	32.80	60.40	50.40	-18.04	-17.60

Remarks:

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

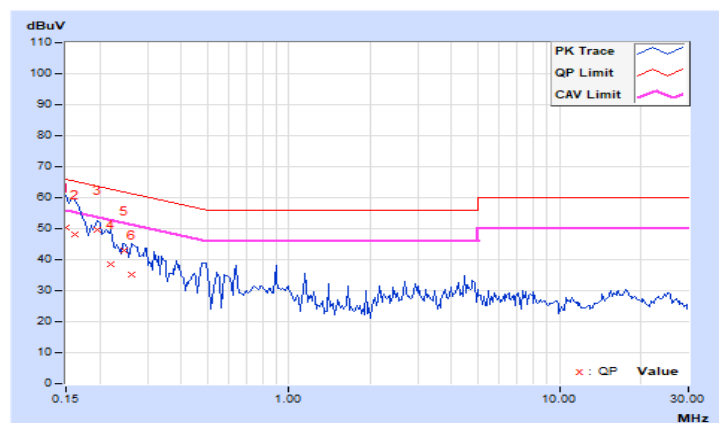


Frequency Range	150kHz ~ 30MHz	Detector Function	Quasi-Peak (QP) / Average (AV)
-----------------	----------------	-------------------	--------------------------------

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.99	40.53	31.82	50.52	41.81	66.00	56.00	-15.48	-14.19
2	0.16172	9.99	38.31	20.97	48.30	30.96	65.38	55.38	-17.08	-24.42
3	0.19687	9.99	39.61	28.11	49.60	38.10	63.74	53.74	-14.14	-15.64
4	0.22031	9.99	28.69	15.61	38.68	25.60	62.81	52.81	-24.13	-27.21
5	0.24766	9.99	32.95	24.70	42.94	34.69	61.84	51.84	-18.90	-17.15
6	0.26328	10.00	25.07	14.99	35.07	24.99	61.33	51.33	-26.26	-26.34

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



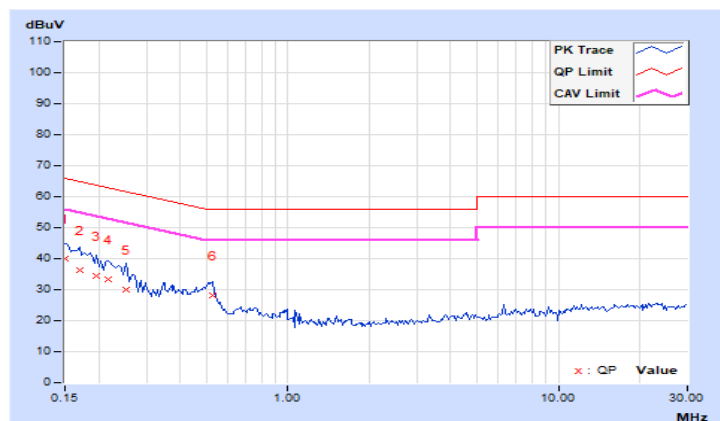
Standby Mode

Frequency Range	150kHz ~ 30MHz	Detector Function	Quasi-Peak (QP) / Average (AV)
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Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.99	29.84	12.97	39.83	22.96	66.00	56.00	-26.17	-33.04
2	0.16953	9.99	26.48	8.56	36.47	18.55	64.98	54.98	-28.51	-36.43
3	0.19687	9.99	24.55	9.81	34.54	19.80	63.74	53.74	-29.20	-33.94
4	0.21641	9.99	23.44	10.25	33.43	20.24	62.96	52.96	-29.53	-32.72
5	0.25156	9.99	20.01	6.77	30.00	16.76	61.71	51.71	-31.71	-34.95
6	0.52500	10.01	18.32	10.00	28.33	20.01	56.00	46.00	-27.67	-25.99

Remarks:

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

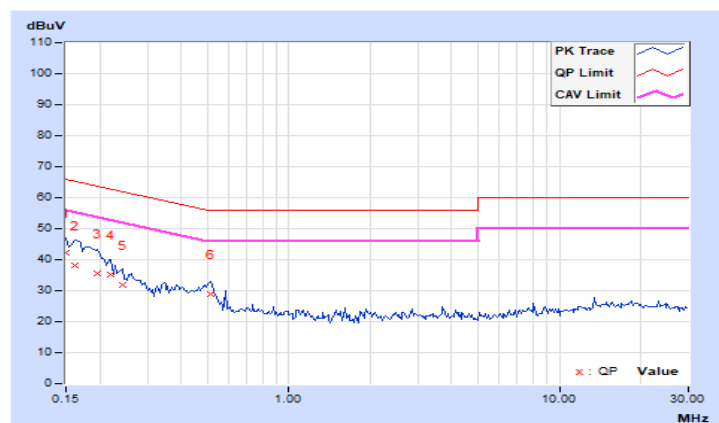


Frequency Range	150kHz ~ 30MHz	Detector Function	Quasi-Peak (QP) / Average (AV)
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Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.99	32.19	9.75	42.18	19.74	66.00	56.00	-23.82	-36.26
2	0.16172	9.99	28.19	9.49	38.18	19.48	65.38	55.38	-27.20	-35.90
3	0.19687	9.99	25.56	15.13	35.55	25.12	63.74	53.74	-28.19	-28.62
4	0.22031	9.99	25.38	11.38	35.37	21.37	62.81	52.81	-27.44	-31.44
5	0.24375	9.99	21.75	10.03	31.74	20.02	61.97	51.97	-30.23	-31.95
6	0.51328	10.02	18.90	11.34	28.92	21.36	56.00	46.00	-27.08	-24.64

Remarks:

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



5 Pictures of Test Arrangements

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

Appendix – Information of the Testing Laboratories

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

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

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