

11.3. Limit

(1) FCC 15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.1772&4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.2072&4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

²Above 38.6

(2) FCC 15.209 Limit

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
0.009 ~ 0.490	300	2400/F(kHz)	67.6-20log(F)
0.490 ~ 1.705	30	24000/F(kHz)	87.6-20log(F)
1.705 ~ 30.0	30	30	29.54
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

Note:

(1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9 - 90 kHz, 110 - 490 kHz and above 1000 MHz. Radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30 MHz, measurement may be performed at a distance closer than that specified, and the limit at closer measurement distance can be extrapolated by below formula:

$$\text{Limit}_{3m}(\text{dBuV/m}) = \text{Limit}_{30m}(\text{dBuV/m}) + 40\text{Log}(30m/3m)$$

(3) Limit for this EUT

The emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20 dB below the fundamental emissions or comply with 15.209 limits.

11.4. Test Procedure

(1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber for below 1 G and 150 cm above the ground plane inside a semi-anechoic chamber for above 1 G.

(2) Test antenna was located 3 m from the EUT on an adjustable mast, and the antenna used as below table.

Test frequency range	Test antenna used	Test antenna distance
9 kHz - 30 MHz	Active Loop antenna	3 m
30 MHz - 1 GHz	Trilog Broadband Antenna	3 m
1 GHz - 18 GHz	Double Ridged Horn Antenna (1 GHz - 18 GHz)	3 m
18 GHz - 40 GHz	Horn Antenna (18 GHz - 40 GHz)	1 m

According ANSI C63.10:2013 clause 6.4.6 and 6.5.3, for measurements below 30 MHz, Antenna was located 3 m from EUT, the loop antenna was positioned in three antenna orientations (parallel, perpendicular, and round-parallel), for each measurement antenna alignment, the EUT shall be rotated through 0° to 360° on a turntable, and the lowest height of the magnetic antenna shall be 1 m above the ground. For measurement above 30 MHz, the Trilog Broadband Antenna or Horn Antenna was located 3 m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

(3) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9 kHz to 25 GHz:

(a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1 m to 4 m (Except loop antenna, it's fixed 1 m above ground.)

(b) Change work frequency or channel of device if practicable.

(c) Change modulation type of device if practicable.

(d) Change power supply range from 85% to 115% of the rated supply voltage

(e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions.

Spectrum frequency from 9 kHz to 25 GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 9 kHz to 30 MHz and 18 GHz to 25

GHz, so below final test was performed with frequency range from 30 MHz to 18 GHz.

(4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1 m and 4 m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10:2013 on Radiated Emission test.

(5) The emissions from 9 kHz to 1 GHz were measured based on CISPR QP detector except for the frequency bands 9 - 90 kHz, 110 - 490 kHz, for emissions from 9 kHz - 90 kHz, 110 kHz - 490 kHz and above 1 GHz were measured based on average detector, for emissions above 1 GHz, peak emissions also be measured and need comply with Peak limit.

(6) The emissions from 9 kHz to 1 GHz, QP or average values were measured with EMI receiver with below RBW

Frequency band	RBW
9 kHz - 150 kHz	200 Hz
150 kHz - 30 MHz	9 kHz
30 MHz - 1 GHz	120 kHz

(7) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1 MHz, VBW is set at 3 MHz for Peak measure; According ANSI C63.10:2013 clause 4.1.4.2.2 procedure for average measure.

(8) For portable device, X axis, Y axis, Z axis are tested, and worse setup is reported.

11.5. Test result

Pass. (See below detailed test result)

All the emissions except fundamental emission from 9 kHz to 25 GHz were comply with 15.209 limits.

Note1: According exploratory test, the emission levels are 20 dB below the limit detected from 9 kHz to 30 MHz and 18 GHz to 25 GHz, so the final test was performed with frequency range from 30 MHz to 18 GHz and recorded in below.

Note2: 30 MHz ~ 25 GHz: (Scan with GFSK 1M, the worst case is reported)

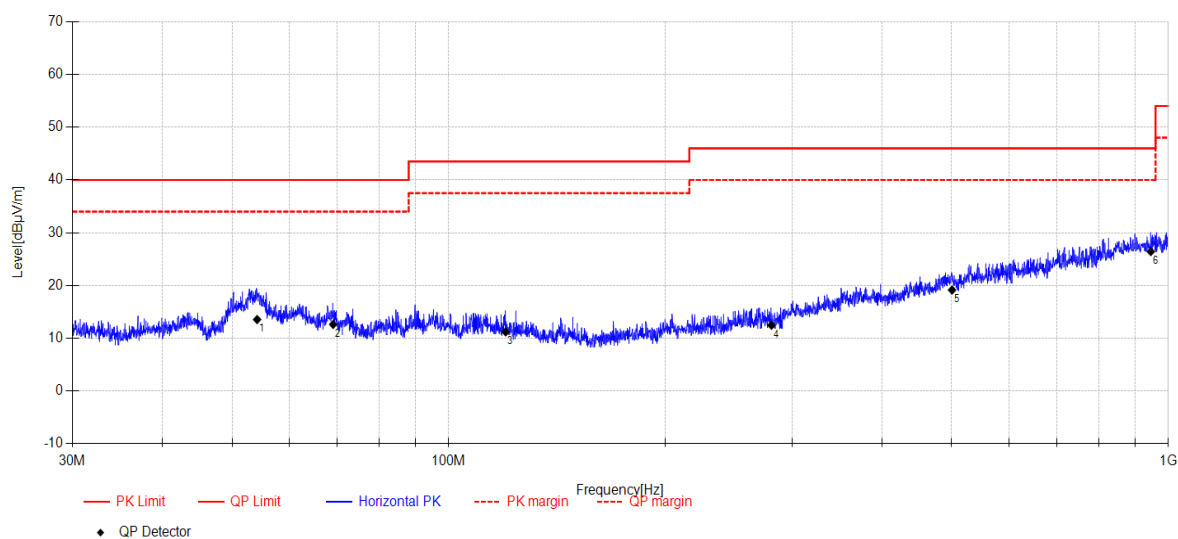
Note3: For emissions below 1 GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1 GHz, the final test was only performed with EUT working in GFSK 1M Tx 2440 MHz mode.

Note4: For emissions above 1 GHz. If peak results comply with AV limit, AV Result is deemed to comply with AV limit.

Radiated Emission test (below 1 GHz)

TR-4-E-009 Radiated Emission Test Result

Test Date: 2024-03-11 **Tested By:** Juchang Du
EUT: True Wireless Earphones **Model Number:** AMIRON 100
Test Mode: BLE 1M TX **Power Supply:** Battery
Condition: Temp:23.5°C;Humi:59.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24022619-2E AMIRON 100\FCC BELOW 1G\20240311-210857_H
Memo: Left Side Sample Number: S24022619-002



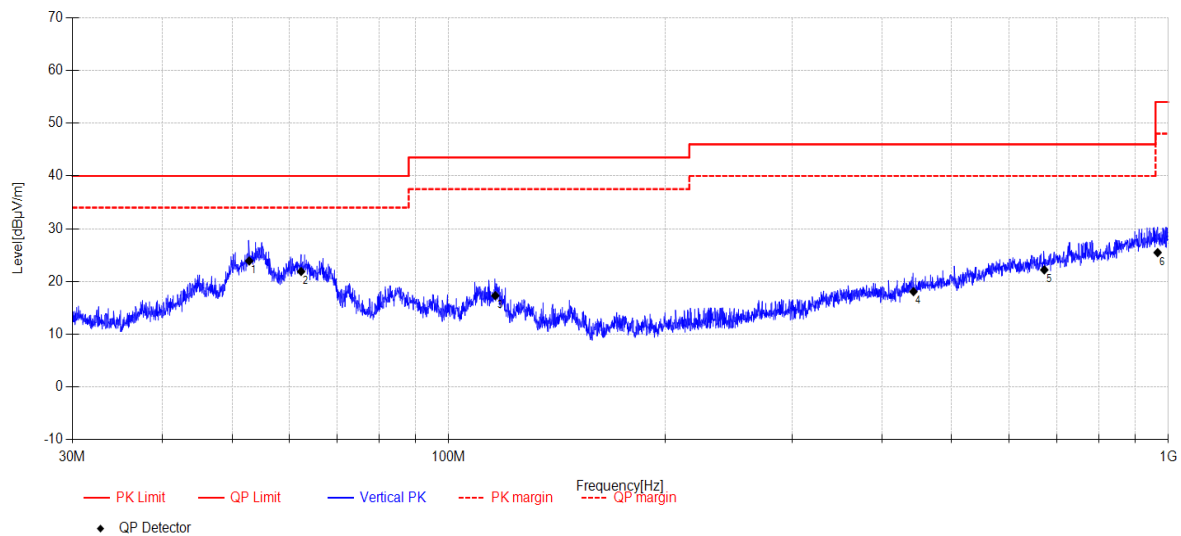
Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	54.18	27.11	12.37	4.74	-30.67	13.55	40.00	26.45	QP	Horizontal
2	69.10	27.97	10.43	4.79	-30.57	12.62	40.00	27.38	QP	Horizontal
3	119.99	26.88	10.00	5.17	-30.84	11.21	43.50	32.29	QP	Horizontal
4	280.88	24.4	12.36	6.07	-30.36	12.47	46.00	33.53	QP	Horizontal
5	500.55	25.05	17.06	6.93	-29.90	19.14	46.00	26.86	QP	Horizontal
6	945.45	24.91	21.61	8.50	-28.59	26.43	46.00	19.57	QP	Horizontal

Note:

1. Result Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2024-03-11
Tested By: Juchang Du
EUT: True Wireless Earphones
Model Number: AMIRON 100
Test Mode: Tx mode
Power Supply: Battery
Condition: Temp:23.5°C;Humi:59.7%
Test Site: DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24022619-2E AMIRON 100\FCC BELOW 1G\20240311-210951_V
Memo: Left Side Sample Number: S24022619-002



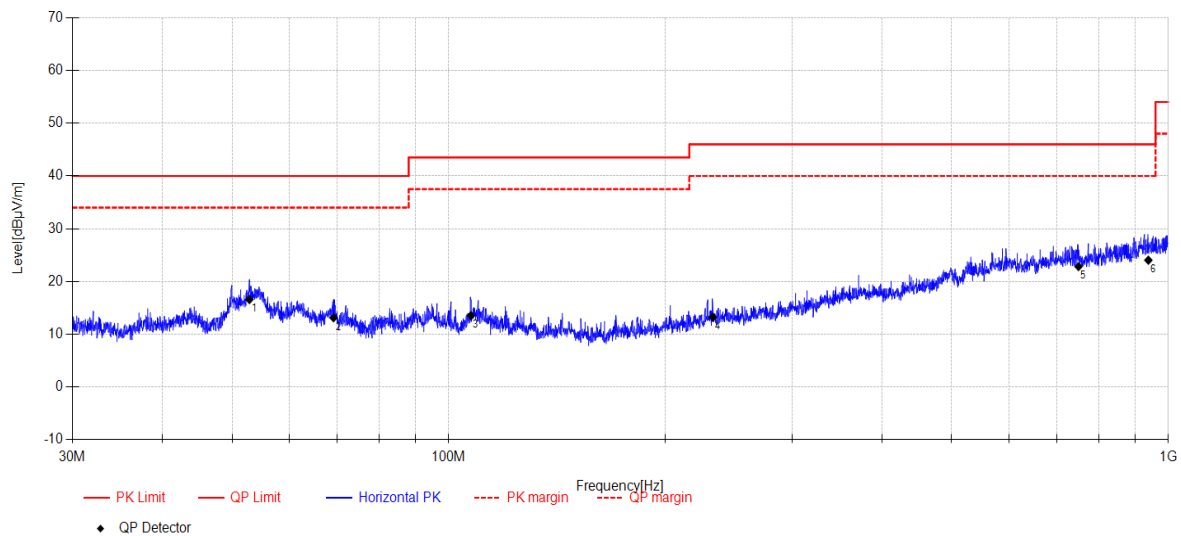
Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	52.83	36.35	13.48	4.74	-30.68	23.89	40.00	16.11	QP	Vertical
2	62.38	35.1	12.65	4.77	-30.62	21.90	40.00	18.10	QP	Vertical
3	116.10	32.09	10.93	5.15	-30.85	17.32	43.50	26.18	QP	Vertical
4	442.43	25.35	15.95	6.80	-30.02	18.08	46.00	27.92	QP	Vertical
5	672.43	25.26	19.20	7.64	-29.90	22.20	46.00	23.80	QP	Vertical
6	966.23	23.48	21.83	8.57	-28.40	25.48	54.00	28.52	QP	Vertical

Note:

- Result Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2024-03-11
Tested By: Juchang Du
EUT: True Wireless Earphones
Model Number: AMIRON 100
Test Mode: Tx mode
Power Supply: Battery
Condition: Temp:23.5°C;Humi:59.7%
Test Site: DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24022619-2E AMIRON 100\FCC BELOW 1G\20240311-211533_H
Memo: Right Side Sample Number: S24022619-002



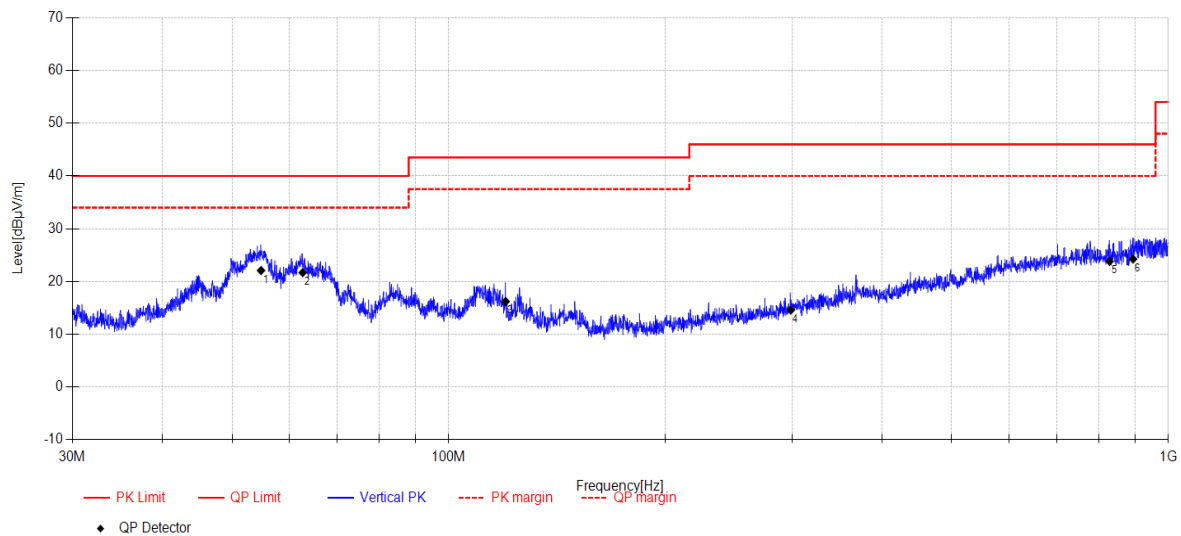
Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	52.87	29.01	13.51	4.74	-30.68	16.58	40.00	23.42	QP	Horizontal
2	69.20	28.55	10.36	4.79	-30.57	13.13	40.00	26.87	QP	Horizontal
3	107.41	27.98	11.34	5.11	-30.88	13.55	43.50	29.95	QP	Horizontal
4	232.93	26.3	11.57	5.87	-30.50	13.24	46.00	32.76	QP	Horizontal
5	750.15	24.78	20.08	7.87	-29.90	22.83	46.00	23.17	QP	Horizontal
6	938.19	22.83	21.40	8.47	-28.66	24.04	46.00	21.96	QP	Horizontal

Note:

- Result Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2024-03-11
Tested By: Juchang Du
EUT: True Wireless Earphones
Model Number: AMIRON 100
Test Mode: Tx mode
Power Supply: Battery
Condition: Temp:23.5°C;Humi:59.7%
Test Site: DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24022619-2E AMIRON 100\FCC BELOW 1G\20240311-211618_V
Memo: Right Side Sample Number: S24022619-002



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	54.87	35.36	12.65	4.74	-30.67	22.08	40.00	17.92	QP	Vertical
2	62.69	35	12.53	4.77	-30.62	21.68	40.00	18.32	QP	Vertical
3	119.99	31.88	10.00	5.17	-30.84	16.21	43.50	27.29	QP	Vertical
4	298.76	25.29	13.45	6.14	-30.30	14.58	46.00	31.42	QP	Vertical
5	828.69	25.2	20.18	8.08	-29.64	23.82	46.00	22.18	QP	Vertical
6	893.25	23.66	21.34	8.32	-29.06	24.26	46.00	21.74	QP	Vertical

Note:

- Result Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

Radiated Emission test (above 1 GHz)
TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-03-09

Tested By:

Juchang Du

EUT:

True Wireless Earphones

Model Number:

AMIRON 100

Test Mode:

Tx mode

Power Supply:

Battery

Condition:

Temp:23.5°C;Humi:59.7%

Test Site:

DDT 3# Chamber

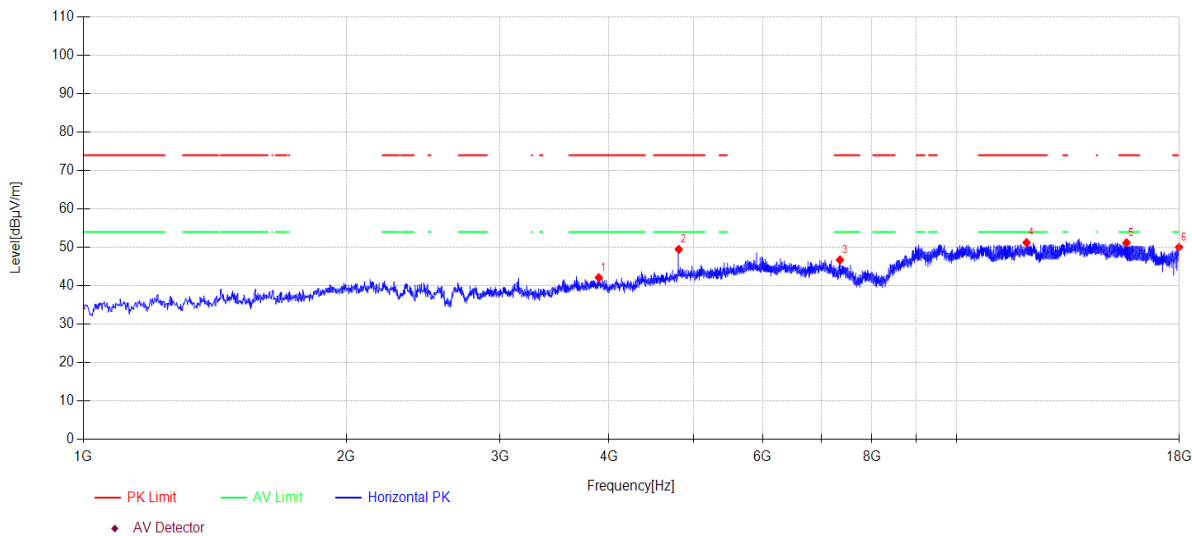
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Memo:

Left Side Sample Number: S24022619-002

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3893.40	45.53	31.16	5.83	-40.38	42.14	74.00	31.86	PK	Horizontal
2	4808.00	49.46	32.71	7.48	-40.15	49.50	74.00	24.50	PK	Horizontal
3	7354.60	43.90	36.79	7.63	-41.59	46.73	74.00	27.27	PK	Horizontal
4	12029.60	41.05	39.23	10.54	-39.57	51.25	74.00	22.75	PK	Horizontal
5	15659.10	37.49	38.54	14.34	-39.16	51.21	74.00	22.79	PK	Horizontal
6	17983.00	36.98	42.32	13.11	-42.36	50.05	74.00	23.95	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

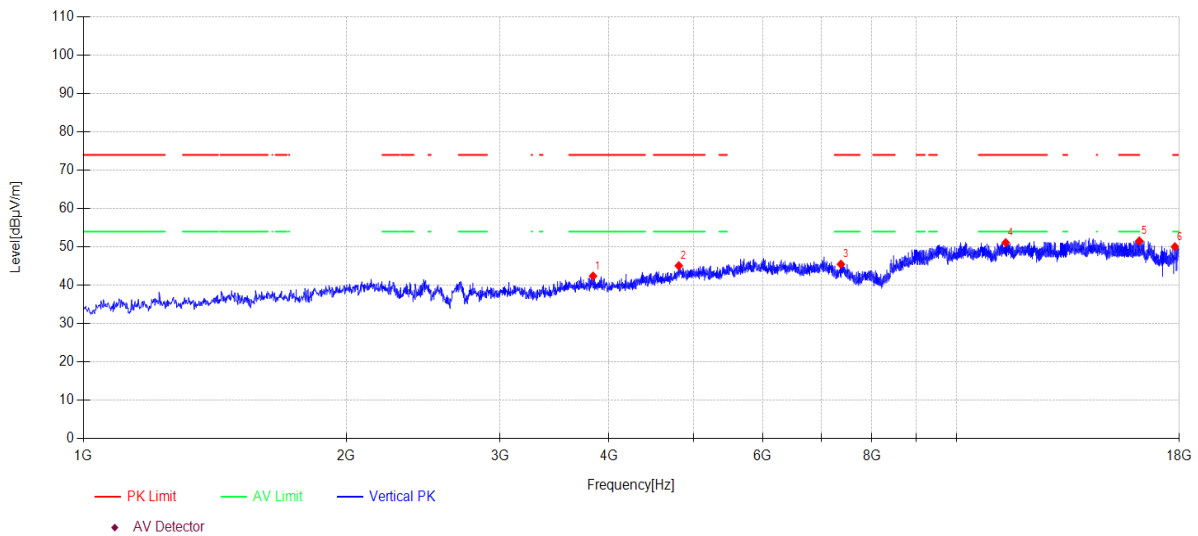
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2024-03-09 **Tested By:** Juchang Du
EUT: True Wireless Earphones **Model Number:** AMIRON 100
Test Mode: BLE 1M TX 2402MHz **Power Supply:** Battery
Condition: Temp:23.5°C;Humi:59.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24022619-2E AMIRON 100\FCC ABOVE 1G\8
Memo: Left Side Sample Number: S24022619-002

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3835.60	46.09	30.84	5.81	-40.35	42.39	74.00	31.61	PK	Vertical
2	4808.00	45.05	32.71	7.48	-40.15	45.09	74.00	28.91	PK	Vertical
3	7373.30	42.73	36.75	7.64	-41.63	45.49	74.00	28.51	PK	Vertical
4	11387.00	41.11	39.29	9.99	-39.27	51.12	74.00	22.88	PK	Vertical
5	16198.00	38.17	37.80	15.10	-39.52	51.55	74.00	22.45	PK	Vertical
6	17789.20	38.34	40.76	12.88	-41.93	50.05	74.00	23.95	PK	Vertical

Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-03-09

Tested By:

Juchang Du

EUT:

True Wireless Earphones

Model Number:

AMIRON 100

Test Mode:

BLE 1M TX 2440MHz

Power Supply:

Battery

Condition:

Temp:23.5°C;Humi:59.7%

Test Site:

DDT 3# Chamber

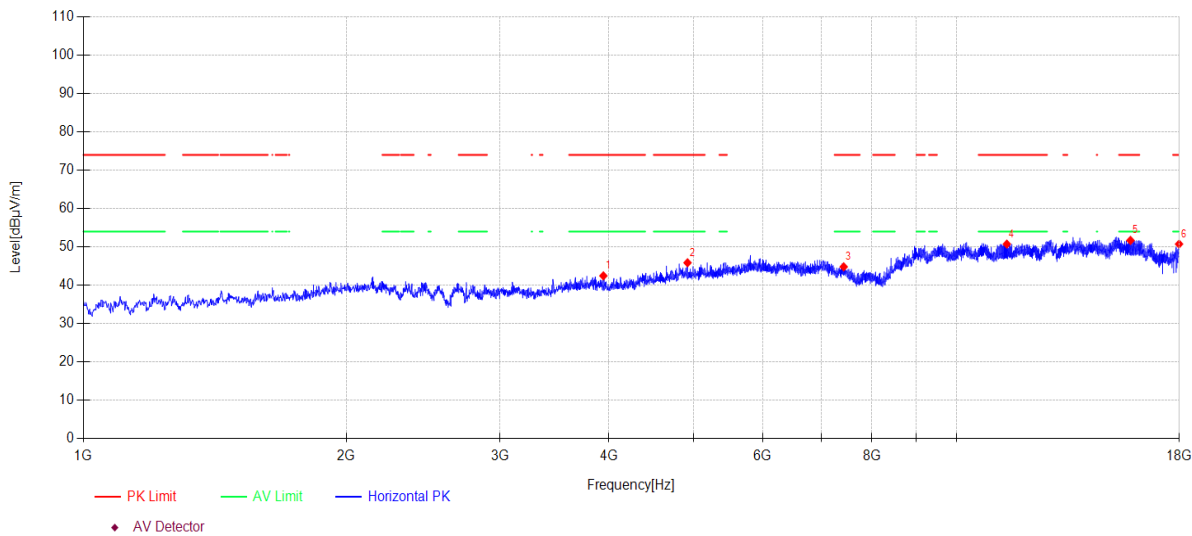
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Memo:

Left Side Sample Number: S24022619-002

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3941.00	45.92	31.12	5.84	-40.41	42.47	74.00	31.53	PK	Horizontal
2	4920.20	45.24	33.04	7.71	-40.11	45.88	74.00	28.12	PK	Horizontal
3	7427.70	42.31	36.64	7.64	-41.77	44.82	74.00	29.18	PK	Horizontal
4	11421.00	40.73	39.28	10.02	-39.29	50.74	74.00	23.26	PK	Horizontal
5	15822.30	37.61	38.26	15.08	-39.25	51.70	74.00	22.30	PK	Horizontal
6	17988.10	37.66	42.34	13.12	-42.37	50.75	74.00	23.25	PK	Horizontal

Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-03-09

Tested By:

Juchang Du

EUT:

True Wireless Earphones

Model Number:

AMIRON 100

Test Mode:

BLE 1M TX 2440MHz

Power Supply:

Battery

Condition:

Temp:23.5°C;Humi:59.7%

Test Site:

DDT 3# Chamber

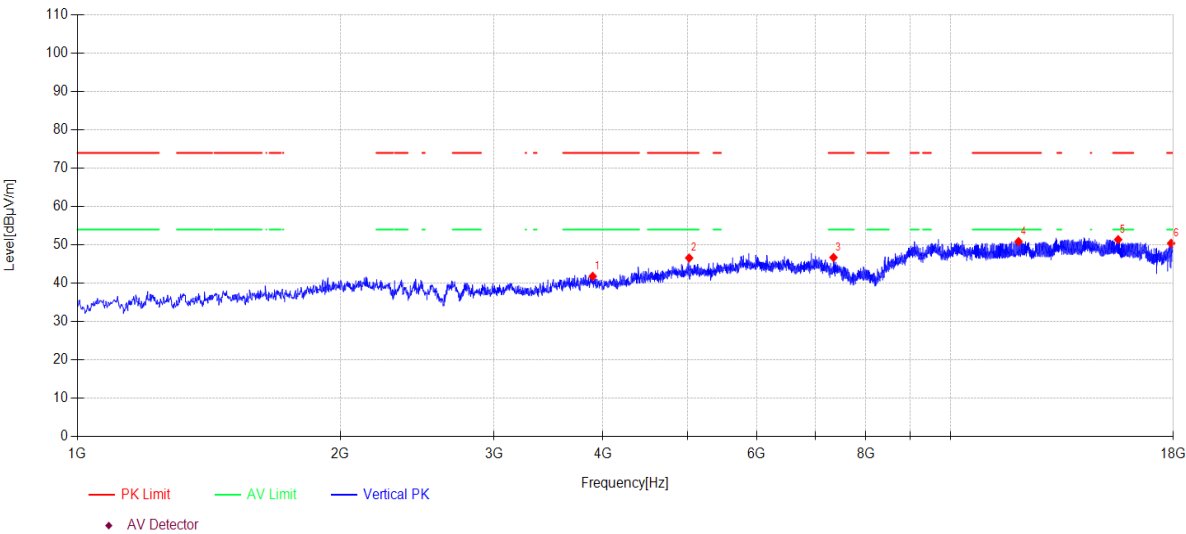
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Memo:

Left Side Sample Number: S24022619-002

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	3893.40	45.20	31.16	5.83	-40.38	41.81	74.00	32.19	PK	Vertical
2	5020.50	45.53	33.24	7.90	-40.08	46.59	74.00	27.41	PK	Vertical
3	7346.10	43.85	36.81	7.63	-41.57	46.72	74.00	27.28	PK	Vertical
4	11968.40	40.81	39.11	10.51	-39.55	50.88	74.00	23.12	PK	Vertical
5	15562.20	37.89	38.68	13.90	-39.10	51.37	74.00	22.63	PK	Vertical
6	17894.60	37.74	41.84	13.00	-42.16	50.42	74.00	23.58	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-03-09

Tested By:

Juchang Du

EUT:

True Wireless Earphones

Model Number:

AMIRON 100

Test Mode:

BLE 1M TX 2480MHz

Power Supply:

Battery

Condition:

Temp:23.5°C;Humi:59.7%

Test Site:

DDT 3# Chamber

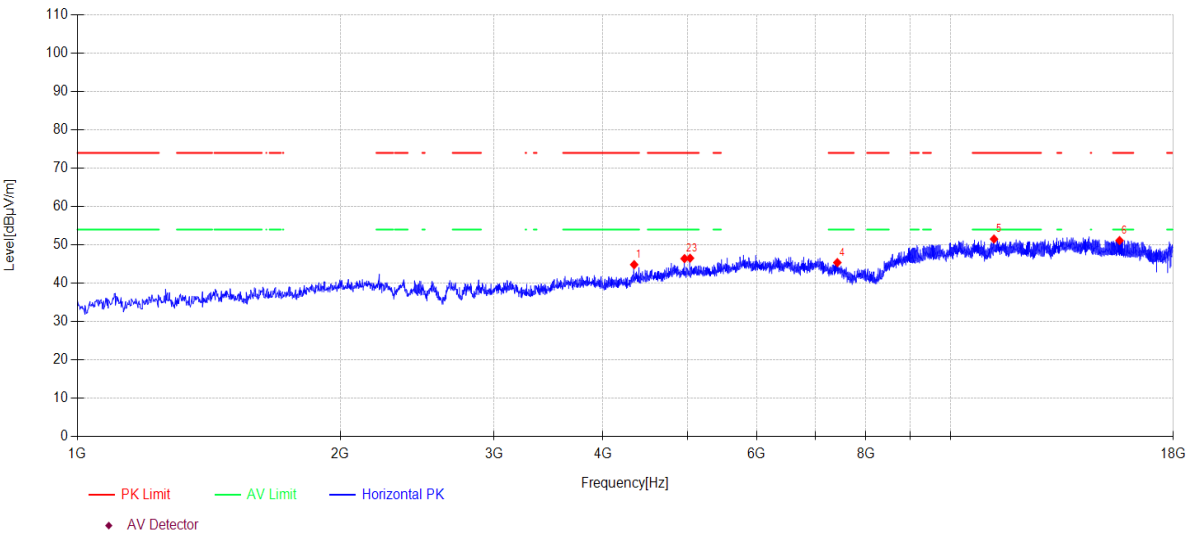
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Memo:

Left Side Sample Number: S24022619-002

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4342.20	47.04	31.60	6.54	-40.32	44.86	74.00	29.14	PK	Horizontal
2	4959.30	45.62	33.12	7.79	-40.10	46.43	74.00	27.57	PK	Horizontal
3	5032.40	45.44	33.26	7.92	-40.08	46.54	74.00	27.46	PK	Horizontal
4	7420.90	42.84	36.66	7.64	-41.75	45.39	74.00	28.61	PK	Horizontal
5	11217.00	41.68	39.20	9.84	-39.19	51.53	74.00	22.47	PK	Horizontal
6	15620.00	37.54	38.58	14.16	-39.13	51.15	74.00	22.85	PK	Horizontal

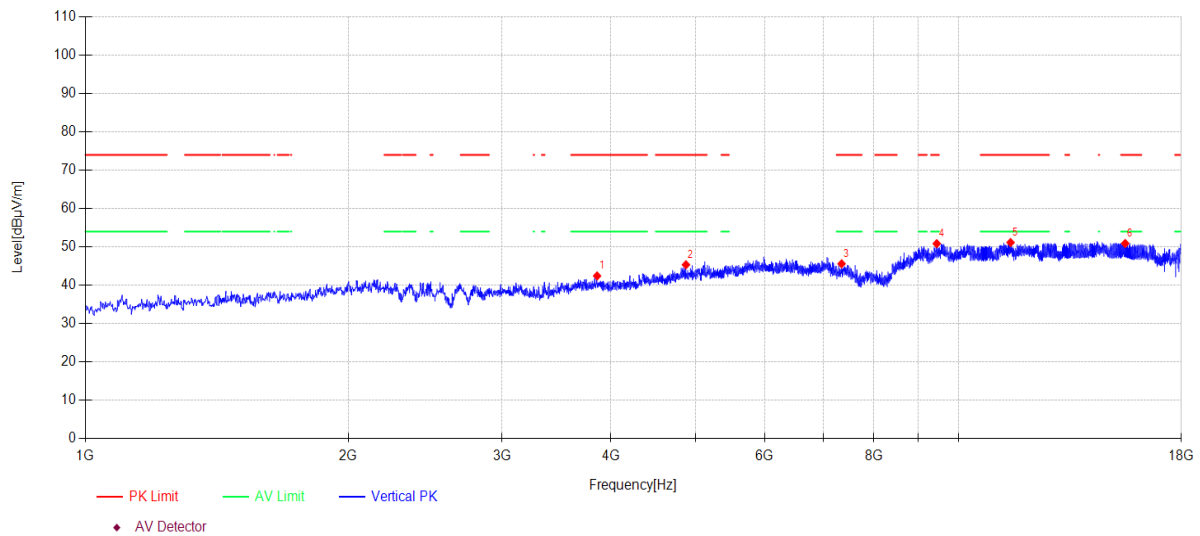
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2024-03-09 **Tested By:** Juchang Du
EUT: True Wireless Earphones **Model Number:** AMIRON 100
Test Mode: BLE 1M TX 2480MHz **Power Supply:** Battery
Condition: Temp:23.5°C;Humi:59.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24022619-2E AMIRON 100\FCC ABOVE 1G\12
Memo: Left Side Sample Number: S24022619-002

Test Graph



Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3856.00	46.04	30.94	5.82	-40.36	42.44	74.00	31.56	PK	Vertical
2	4874.30	44.45	33.41	7.62	-40.13	45.35	74.00	28.65	PK	Vertical
3	7347.80	42.75	36.80	7.63	-41.57	45.61	74.00	28.39	PK	Vertical
4	9443.90	42.10	38.70	8.82	-38.76	50.86	74.00	23.14	PK	Vertical
5	11473.70	41.16	39.23	10.07	-39.31	51.15	74.00	22.85	PK	Vertical
6	15523.10	37.50	38.75	13.72	-39.07	50.90	74.00	23.10	PK	Vertical

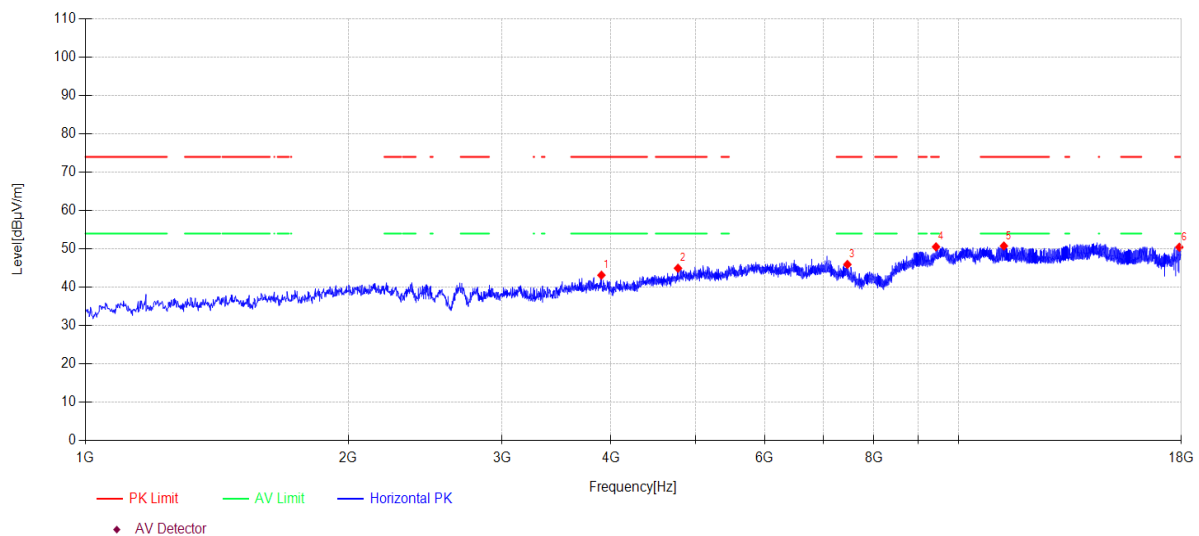
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2024-03-09 **Tested By:** Juchang Du
EUT: True Wireless Earphones **Model Number:** AMIRON 100
Test Mode: BLE 2M TX 2404MHz **Power Supply:** Battery
Condition: Temp:23.5°C;Humi:59.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24022619-2E AMIRON 100\FCC ABOVE 1G\13
Memo: Left Side Sample Number: S24022619-002

Test Graph



Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3900.20	46.51	31.20	5.83	-40.39	43.15	74.00	30.85	PK	Horizontal
2	4772.30	45.32	32.39	7.41	-40.16	44.96	74.00	29.04	PK	Horizontal
3	7461.70	43.58	36.58	7.64	-41.85	45.95	74.00	28.05	PK	Horizontal
4	9425.20	41.78	38.70	8.82	-38.76	50.54	74.00	23.46	PK	Horizontal
5	11273.10	40.89	39.20	9.89	-39.22	50.76	74.00	23.24	PK	Horizontal
6	17904.80	37.69	41.92	13.02	-42.19	50.44	74.00	23.56	PK	Horizontal

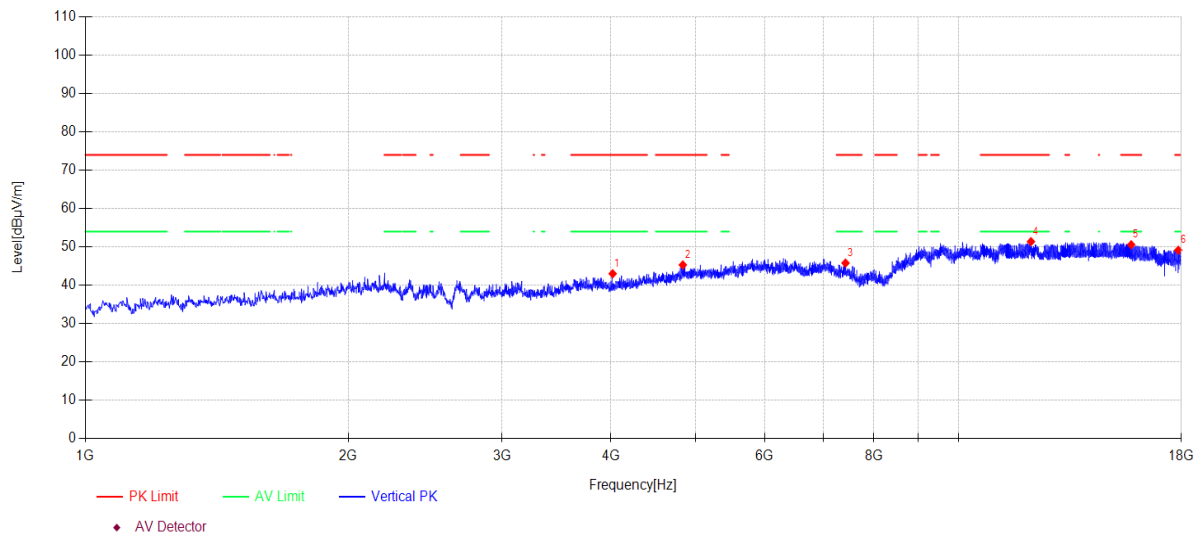
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2024-03-09 **Tested By:** Juchang Du
EUT: True Wireless Earphones **Model Number:** AMIRON 100
Test Mode: BLE 2M TX 2404MHz **Power Supply:** Battery
Condition: Temp:23.5°C;Humi:59.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24022619-2E AMIRON 100\FCC ABOVE 1G\14
Memo: Left Side Sample Number: S24022619-002

Test Graph



Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4017.50	46.63	30.94	5.89	-40.44	43.02	74.00	30.98	PK	Vertical
2	4833.50	44.55	33.37	7.53	-40.14	45.31	74.00	28.69	PK	Vertical
3	7424.30	43.26	36.65	7.64	-41.76	45.79	74.00	28.21	PK	Vertical
4	12107.80	41.14	39.30	10.54	-39.60	51.38	74.00	22.62	PK	Vertical
5	15771.30	36.60	38.36	14.84	-39.22	50.58	74.00	23.42	PK	Vertical
6	17855.50	36.86	41.41	12.96	-42.08	49.15	74.00	24.85	PK	Vertical

Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-03-09

Tested By:

Juchang Du

EUT:

True Wireless Earphones

Model Number:

AMIRON 100

Test Mode:

BLE 2M TX 2440MHz

Power Supply:

Battery

Condition:

Temp:23.5°C;Humi:59.7%

Test Site:

DDT 3# Chamber

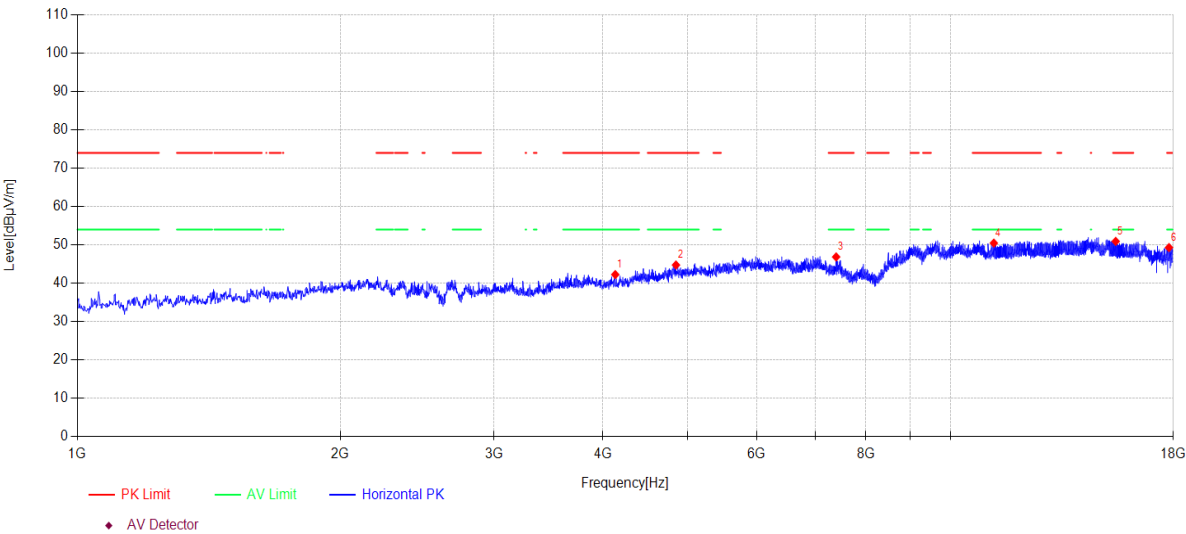
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d:\ts\2024 report data\Q24022619-2E AMIRON 100\FCC ABOVE 1G\15

Memo:

Left Side Sample Number: S24022619-002

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4131.40	45.39	31.16	6.12	-40.40	42.27	74.00	31.73	PK	Horizontal
2	4848.80	43.57	33.77	7.56	-40.14	44.76	74.00	29.24	PK	Horizontal
3	7397.10	44.21	36.71	7.64	-41.69	46.87	74.00	27.13	PK	Horizontal
4	11211.90	40.62	39.20	9.84	-39.19	50.47	74.00	23.53	PK	Horizontal
5	15461.90	37.65	38.88	13.44	-39.04	50.93	74.00	23.07	PK	Horizontal
6	17796.00	37.59	40.78	12.89	-41.95	49.31	74.00	24.69	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-03-09

Tested By:

Juchang Du

EUT:

True Wireless Earphones

Model Number:

AMIRON 100

Test Mode:

BLE 2M TX 2440MHz

Power Supply:

Battery

Condition:

Temp:23.5°C;Humi:59.7%

Test Site:

DDT 3# Chamber

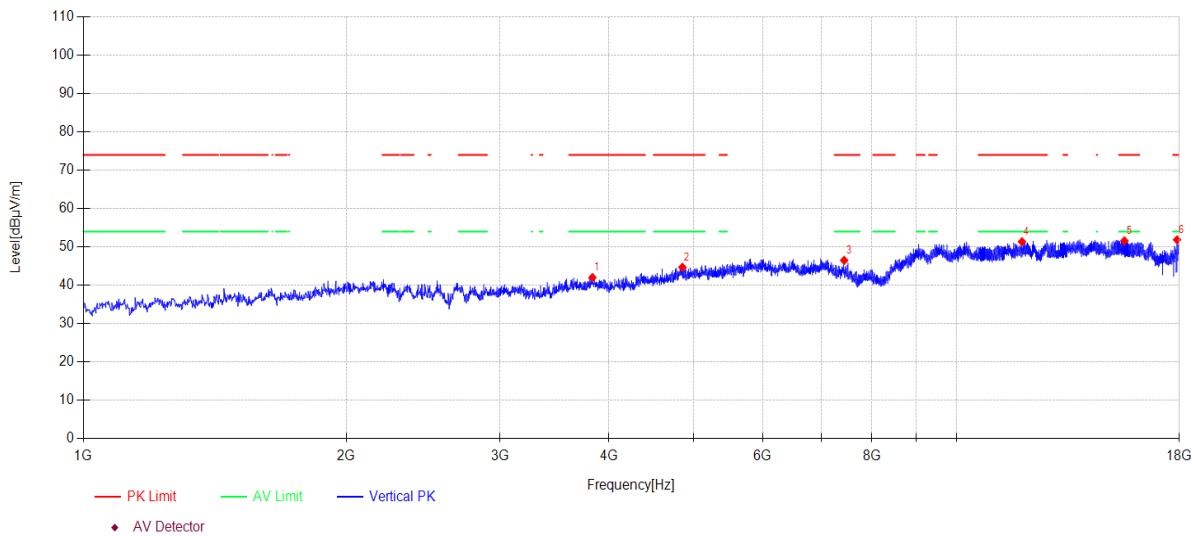
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d:\ts\2024 report data\Q24022619-2E AMIRON 100\FCC ABOVE 1G\16

Memo:

Left Side Sample Number: S24022619-002

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	3828.80	45.74	30.82	5.81	-40.35	42.02	74.00	31.98	PK	Vertical
2	4853.90	43.52	33.74	7.57	-40.13	44.70	74.00	29.30	PK	Vertical
3	7436.20	44.02	36.63	7.64	-41.79	46.50	74.00	27.50	PK	Vertical
4	11886.80	41.53	38.90	10.44	-39.51	51.36	74.00	22.64	PK	Vertical
5	15574.10	38.10	38.65	13.95	-39.10	51.60	74.00	22.40	PK	Vertical
6	17891.20	39.22	41.80	13.00	-42.16	51.86	74.00	22.14	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-03-09

Tested By:

Juchang Du

EUT:

True Wireless Earphones

Model Number:

AMIRON 100

Test Mode:

BLE 2M TX 2478MHz

Power Supply:

Battery

Condition:

Temp:23.5°C;Humi:59.7%

Test Site:

DDT 3# Chamber

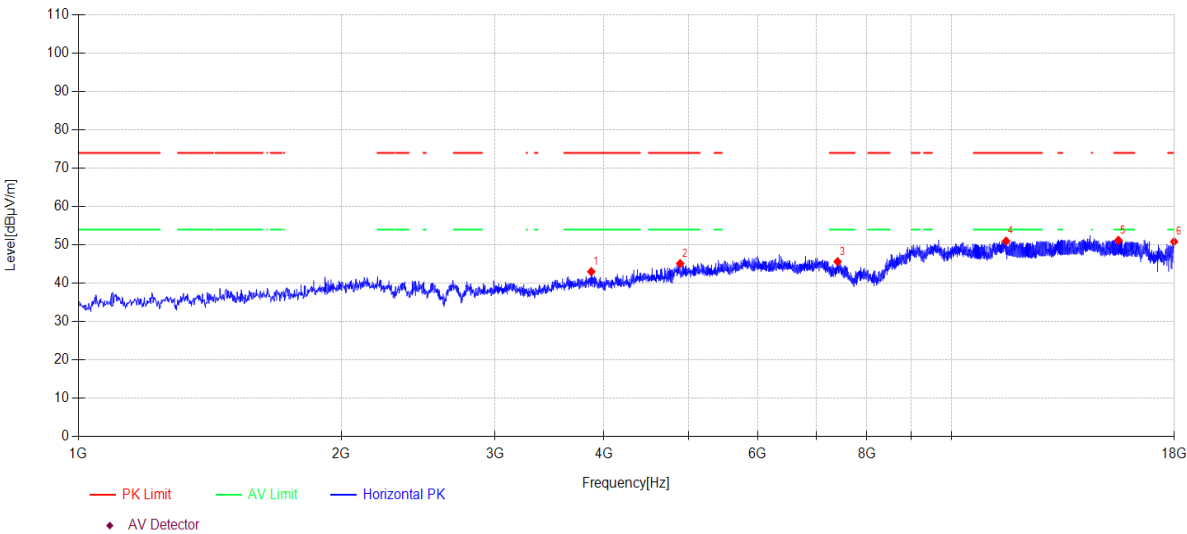
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d:\ts\2024 report data\Q24022619-2E AMIRON 100\FCC ABOVE 1G\17

Memo:

Left Side Sample Number: S24022619-002

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3867.90	46.57	31.01	5.82	-40.37	43.03	74.00	30.97	PK	Horizontal
2	4889.60	44.44	33.17	7.65	-40.12	45.14	74.00	28.86	PK	Horizontal
3	7405.60	43.03	36.69	7.64	-41.71	45.65	74.00	28.35	PK	Horizontal
4	11550.20	41.11	39.10	10.14	-39.35	51.00	74.00	23.00	PK	Horizontal
5	15531.60	37.77	38.74	13.76	-39.08	51.19	74.00	22.81	PK	Horizontal
6	17991.50	37.75	42.36	13.12	-42.38	50.85	74.00	23.15	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

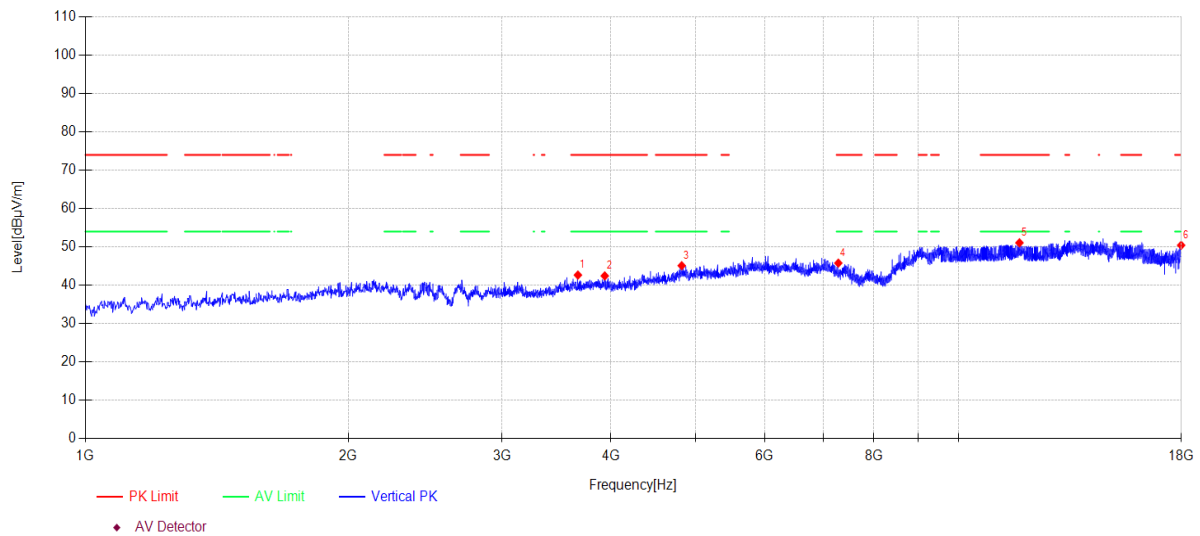
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2024-03-09 **Tested By:** Juchang Du
EUT: True Wireless Earphones **Model Number:** AMIRON 100
Test Mode: BLE 2M TX 2478MHz **Power Supply:** Battery
Condition: Temp:23.5°C;Humi:59.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24022619-2E AMIRON 100\FCC ABOVE 1G\18
Memo: Left Side Sample Number: S24022619-002

Test Graph



Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3665.60	46.87	30.26	5.78	-40.25	42.66	74.00	31.34	PK	Vertical
2	3934.20	45.89	31.13	5.84	-40.41	42.45	74.00	31.55	PK	Vertical
3	4819.90	44.73	33.02	7.51	-40.15	45.11	74.00	28.89	PK	Vertical
4	7284.90	42.70	36.87	7.63	-41.41	45.79	74.00	28.21	PK	Vertical
5	11745.70	41.25	38.95	10.31	-39.44	51.07	74.00	22.93	PK	Vertical
6	17991.50	37.33	42.36	13.12	-42.38	50.43	74.00	23.57	PK	Vertical

Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-03-11

Tested By:

Juchang Du

EUT:

True Wireless Earphones

Model Number:

AMIRON 100

Test Mode:

BLE 1M TX 2402MHz

Power Supply:

Battery

Condition:

Temp:23.5°C;Humi:59.7%

Test Site:

DDT 3# Chamber

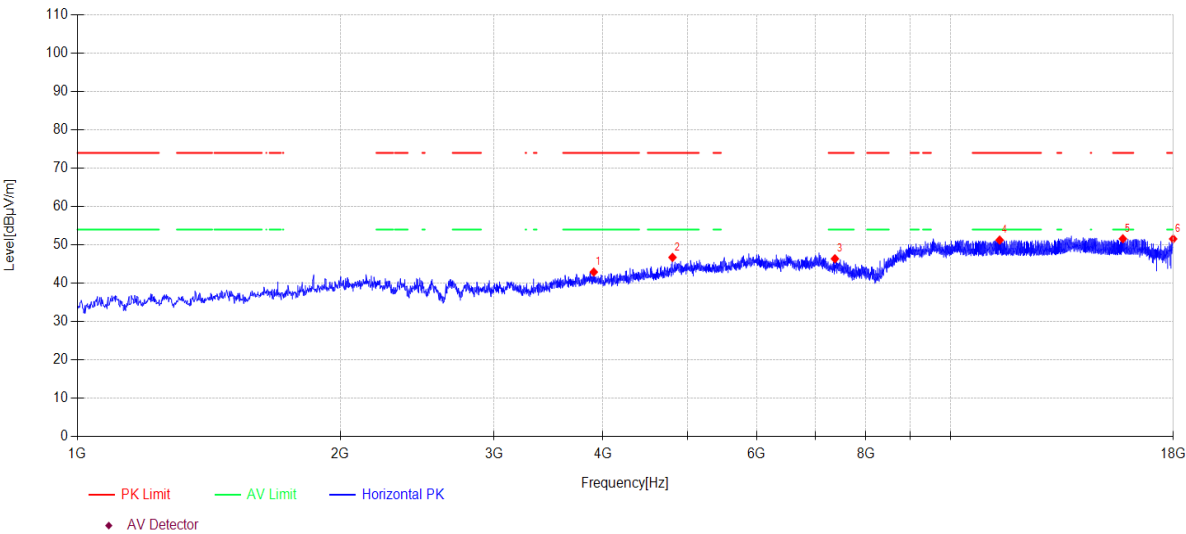
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d:\ts\2024 report data\Q24022619-2E AMIRON 100\FCC ABOVE 1G\45

Memo:

Right Side Sample Number: S24022619-002

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3903.60	46.30	31.19	5.83	-40.39	42.93	74.00	31.07	PK	Horizontal
2	4804.60	46.79	32.62	7.48	-40.15	46.74	74.00	27.26	PK	Horizontal
3	7373.30	43.64	36.75	7.64	-41.63	46.40	74.00	27.60	PK	Horizontal
4	11385.30	41.25	39.29	9.99	-39.27	51.26	74.00	22.74	PK	Horizontal
5	15757.70	37.65	38.38	14.78	-39.21	51.60	74.00	22.40	PK	Horizontal
6	17991.50	38.46	42.36	13.12	-42.38	51.56	74.00	22.44	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-03-11

Tested By:

Juchang Du

EUT:

True Wireless Earphones

Model Number:

AMIRON 100

Test Mode:

BLE 1M TX 2402MHz

Power Supply:

Battery

Condition:

Temp:23.5°C;Humi:59.7%

Test Site:

DDT 3# Chamber

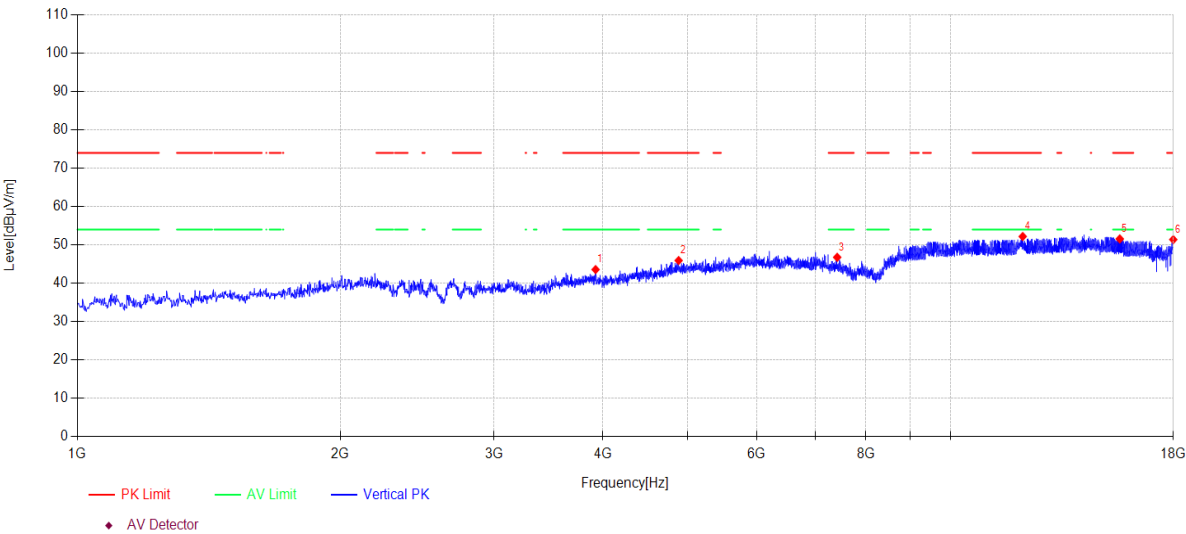
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d:\ts\2024 report data\Q24022619-2E AMIRON 100\FCC ABOVE 1G\46

Memo:

Right Side Sample Number: S24022619-002

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3922.30	46.99	31.16	5.83	-40.40	43.58	74.00	30.42	PK	Vertical
2	4882.80	45.14	33.28	7.63	-40.12	45.93	74.00	28.07	PK	Vertical
3	7417.50	44.20	36.67	7.64	-41.74	46.77	74.00	27.23	PK	Vertical
4	12099.30	41.96	39.30	10.54	-39.60	52.20	74.00	21.80	PK	Vertical
5	15628.50	37.93	38.57	14.20	-39.14	51.56	74.00	22.44	PK	Vertical
6	17996.60	38.28	42.38	13.13	-42.39	51.40	74.00	22.60	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

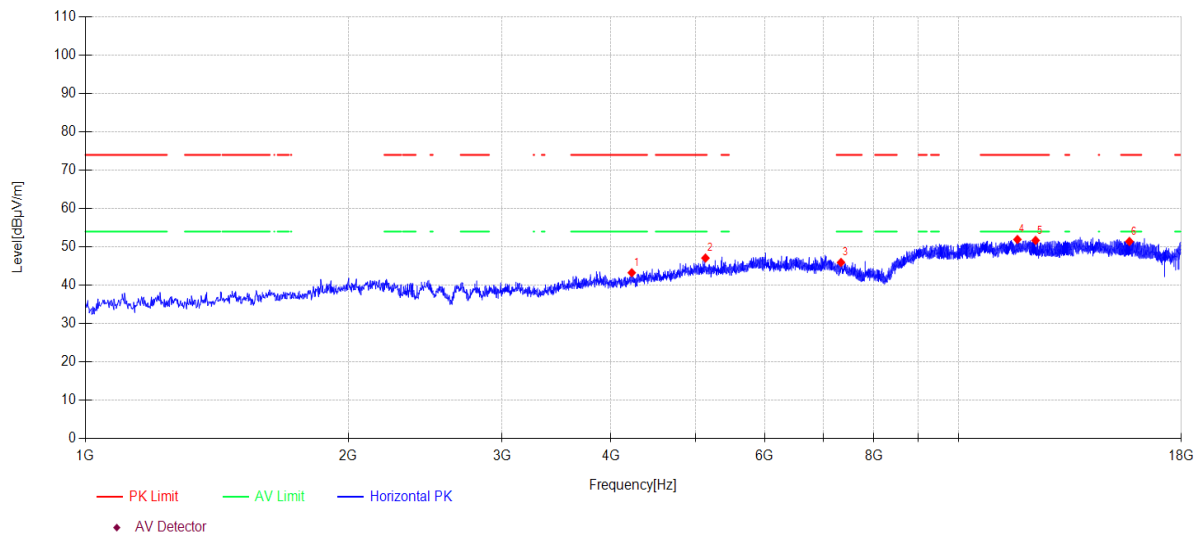
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2024-03-11 **Tested By:** Juchang Du
EUT: True Wireless Earphones **Model Number:** AMIRON 100
Test Mode: BLE 1M TX 2440MHz **Power Supply:** Battery
Condition: Temp:23.5°C;Humi:59.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24022619-2E AMIRON 100\FCC ABOVE 1G\47
Memo: Right Side Sample Number: S24022619-002

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4224.90	46.04	31.30	6.30	-40.37	43.27	74.00	30.73	PK	Horizontal
2	5131.00	45.69	33.40	8.06	-40.06	47.09	74.00	26.91	PK	Horizontal
3	7335.90	43.03	36.83	7.63	-41.54	45.95	74.00	28.05	PK	Horizontal
4	11682.80	42.09	39.00	10.26	-39.41	51.94	74.00	22.06	PK	Horizontal
5	12255.70	41.51	39.30	10.54	-39.66	51.69	74.00	22.31	PK	Horizontal
6	15698.20	37.59	38.50	14.51	-39.18	51.42	74.00	22.58	PK	Horizontal

Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-03-11

Tested By:

Juchang Du

EUT:

True Wireless Earphones

Model Number:

AMIRON 100

Test Mode:

BLE 1M TX 2440MHz

Power Supply:

Battery

Condition:

Temp:23.5°C;Humi:59.7%

Test Site:

DDT 3# Chamber

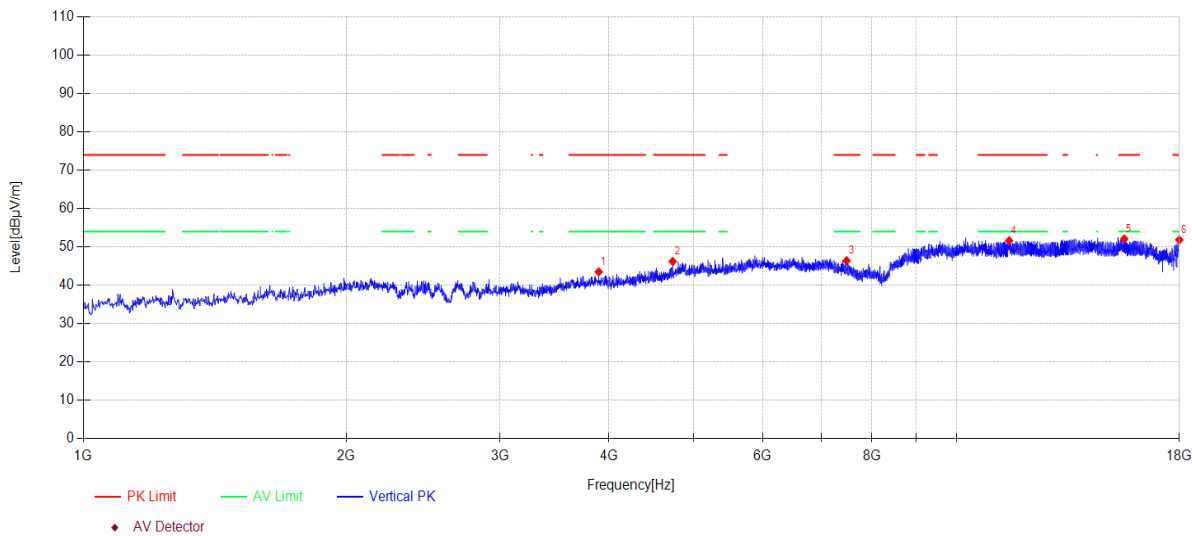
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Memo:

Right Side Sample Number: S24022619-002

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3893.40	46.89	31.16	5.83	-40.38	43.50	74.00	30.50	PK	Vertical
2	4731.50	46.81	32.26	7.33	-40.18	46.22	74.00	27.78	PK	Vertical
3	7485.50	44.15	36.53	7.64	-41.91	46.41	74.00	27.59	PK	Vertical
4	11490.70	41.66	39.21	10.09	-39.32	51.64	74.00	22.36	PK	Vertical
5	15567.30	38.58	38.67	13.92	-39.10	52.07	74.00	21.93	PK	Vertical
6	17998.30	38.72	42.39	13.13	-42.40	51.84	74.00	22.16	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-03-11

Tested By:

Juchang Du

EUT:

True Wireless Earphones

Model Number:

AMIRON 100

Test Mode:

BLE 1M TX 2480MHz

Power Supply:

Battery

Condition:

Temp:23.5°C;Humi:59.7%

Test Site:

DDT 3# Chamber

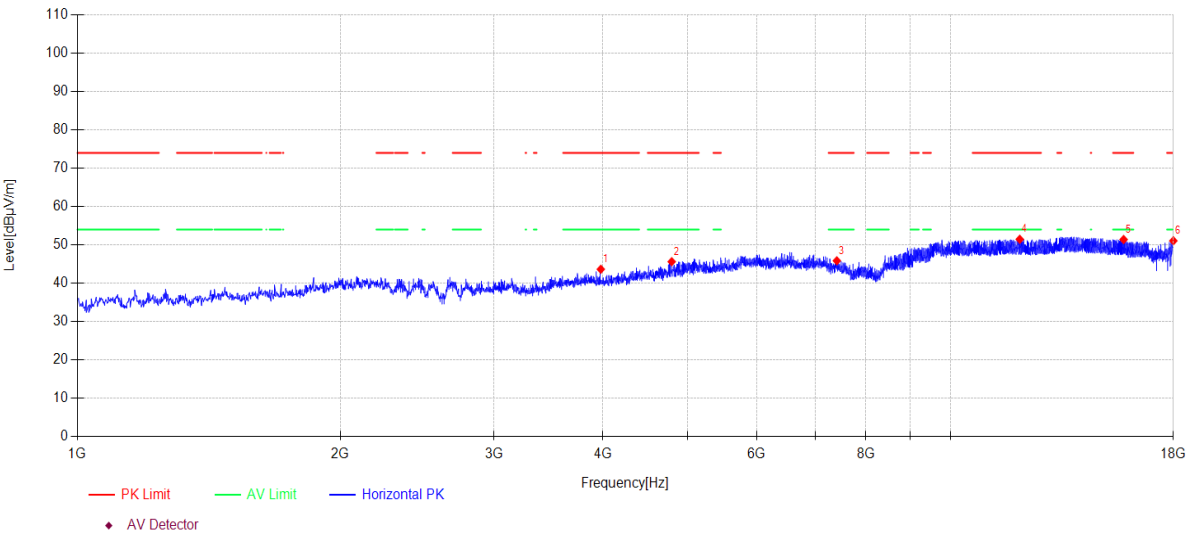
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d:\ts\2024 report data\Q24022619-2E AMIRON 100\FCC ABOVE 1G\49

Memo:

Right Side Sample Number: S24022619-002

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3976.70	47.27	30.99	5.84	-40.44	43.66	74.00	30.34	PK	Horizontal
2	4794.40	45.87	32.48	7.45	-40.16	45.64	74.00	28.36	PK	Horizontal
3	7410.70	43.28	36.68	7.64	-41.73	45.87	74.00	28.13	PK	Horizontal
4	12005.80	41.28	39.21	10.54	-39.56	51.47	74.00	22.53	PK	Horizontal
5	15788.30	37.39	38.32	14.92	-39.23	51.40	74.00	22.60	PK	Horizontal
6	18000.00	37.94	42.40	13.13	-42.40	51.07	74.00	22.93	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-03-11

Tested By:

Juchang Du

EUT:

True Wireless Earphones

Model Number:

AMIRON 100

Test Mode:

BLE 1M TX 2480MHz

Power Supply:

Battery

Condition:

Temp:23.5°C;Humi:59.7%

Test Site:

DDT 3# Chamber

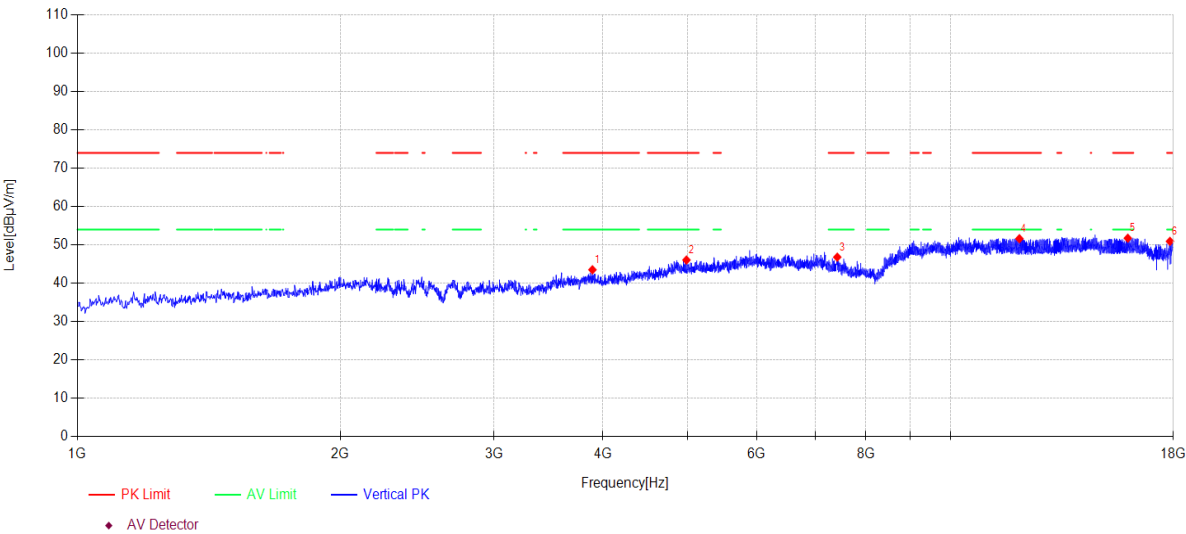
File Path:

d:\ts\2024 report data\Q24022619-2E AMIRON 100\FCC ABOVE 1G\50

Memo:

Right Side Sample Number: S24022619-002

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3890.00	46.93	31.14	5.83	-40.38	43.52	74.00	30.48	PK	Vertical
2	4984.80	45.14	33.17	7.84	-40.09	46.06	74.00	27.94	PK	Vertical
3	7419.20	44.26	36.66	7.64	-41.75	46.81	74.00	27.19	PK	Vertical
4	11993.90	41.48	39.18	10.53	-39.56	51.63	74.00	22.37	PK	Vertical
5	15963.40	37.34	38.04	15.71	-39.34	51.75	74.00	22.25	PK	Vertical
6	17840.20	38.79	41.24	12.94	-42.04	50.93	74.00	23.07	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-03-11

Tested By:

Juchang Du

EUT:

True Wireless Earphones

Model Number:

AMIRON 100

Test Mode:

BLE 2M TX 2404MHz

Power Supply:

Battery

Condition:

Temp:23.5°C;Humi:59.7%

Test Site:

DDT 3# Chamber

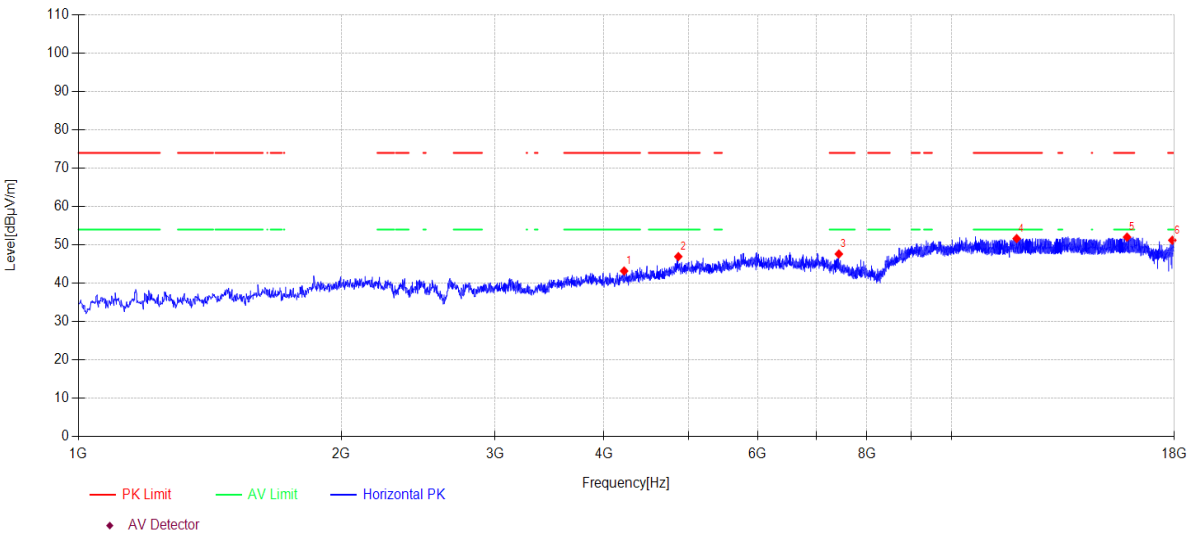
File Path:

d:\ts\2024 report data\Q24022619-2E AMIRON 100\FCC ABOVE 1G\51

Memo:

Right Side Sample Number: S24022619-002

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4218.10	46.01	31.27	6.29	-40.37	43.20	74.00	30.80	PK	Horizontal
2	4865.80	45.94	33.55	7.60	-40.13	46.96	74.00	27.04	PK	Horizontal
3	7431.10	45.13	36.64	7.64	-41.78	47.63	74.00	26.37	PK	Horizontal
4	11876.60	41.82	38.90	10.43	-39.50	51.65	74.00	22.35	PK	Horizontal
5	15888.60	37.82	38.12	15.38	-39.29	52.03	74.00	21.97	PK	Horizontal
6	17903.10	38.47	41.92	13.01	-42.18	51.22	74.00	22.78	PK	Horizontal

- Note:
1. Level = Reading + Cable loss + Antenna Factor + AMP

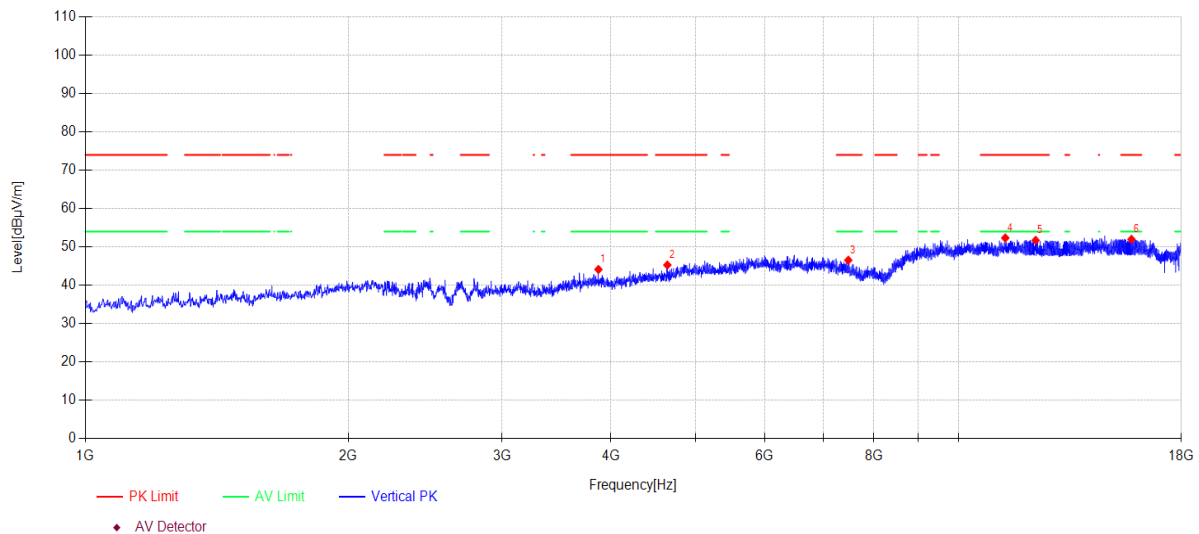
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2024-03-11 **Tested By:** Juchang Du
EUT: True Wireless Earphones **Model Number:** AMIRON 100
Test Mode: BLE 2M TX 2404MHz **Power Supply:** Battery
Condition: Temp:23.5°C;Humi:59.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24022619-2E AMIRON 100\FCC ABOVE 1G\52
Memo: Right Side Sample Number: S24022619-002

Test Graph



Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3869.60	47.65	31.02	5.82	-40.37	44.12	74.00	29.88	PK	Vertical
2	4641.40	46.36	31.98	7.15	-40.21	45.28	74.00	28.72	PK	Vertical
3	7478.70	44.26	36.54	7.64	-41.90	46.54	74.00	27.46	PK	Vertical
4	11313.90	42.43	39.21	9.93	-39.24	52.33	74.00	21.67	PK	Vertical
5	12257.40	41.55	39.30	10.54	-39.66	51.73	74.00	22.27	PK	Vertical
6	15783.20	37.98	38.33	14.90	-39.23	51.98	74.00	22.02	PK	Vertical

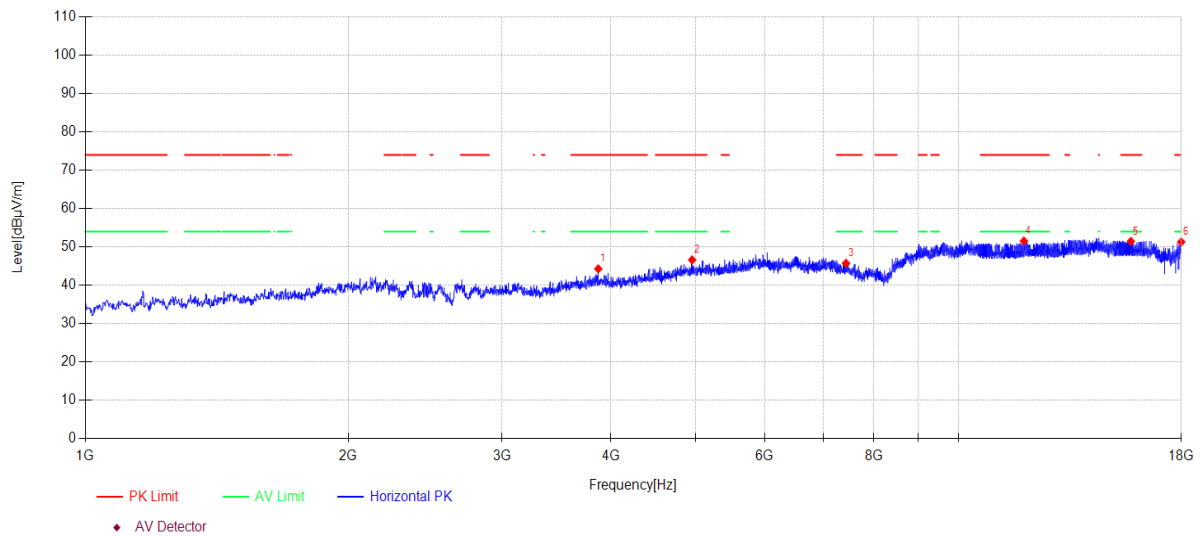
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2024-03-11 **Tested By:** Juchang Du
EUT: True Wireless Earphones **Model Number:** AMIRON 100
Test Mode: BLE 2M TX 2440MHz **Power Supply:** Battery
Condition: Temp:23.5°C;Humi:59.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24022619-2E AMIRON 100\FCC ABOVE 1G\53
Memo: Right Side Sample Number: S24022619-002

Test Graph



Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3867.90	47.82	31.01	5.82	-40.37	44.28	74.00	29.72	PK	Horizontal
2	4954.20	45.83	33.11	7.78	-40.10	46.62	74.00	27.38	PK	Horizontal
3	7434.50	43.25	36.63	7.64	-41.79	45.73	74.00	28.27	PK	Horizontal
4	11885.10	41.70	38.90	10.44	-39.51	51.53	74.00	22.47	PK	Horizontal
5	15756.00	37.51	38.39	14.77	-39.21	51.46	74.00	22.54	PK	Horizontal
6	17994.90	38.18	42.37	13.12	-42.39	51.28	74.00	22.72	PK	Horizontal

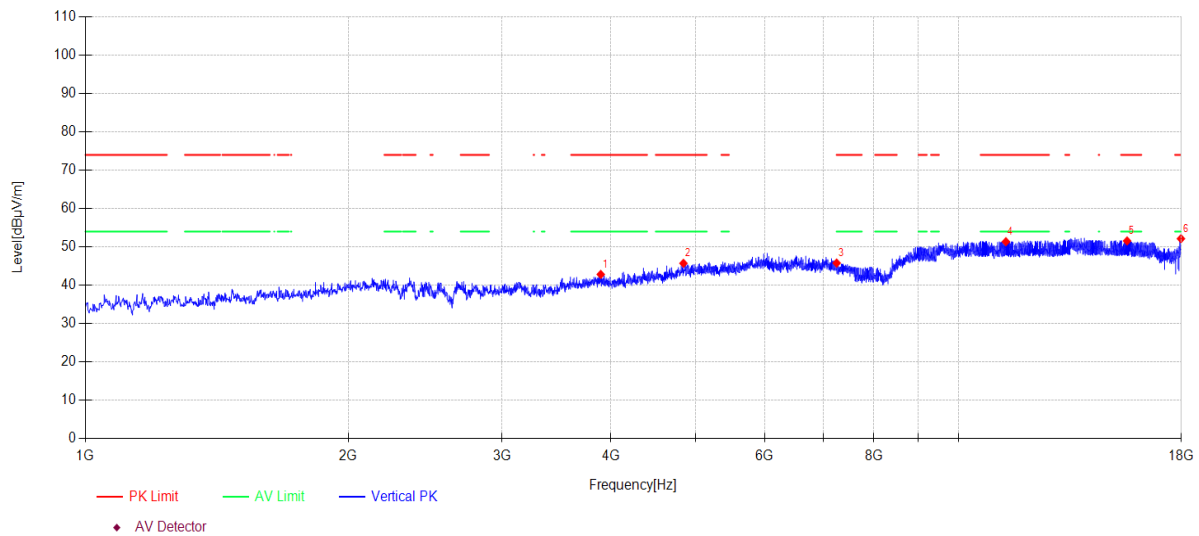
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2024-03-11 **Tested By:** Juchang Du
EUT: True Wireless Earphones **Model Number:** AMIRON 100
Test Mode: BLE 2M TX 2440MHz **Power Supply:** Battery
Condition: Temp:23.5°C;Humi:59.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24022619-2E AMIRON 100\FCC ABOVE 1G\54
Memo: Right Side Sample Number: S24022619-002

Test Graph



Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3893.40	46.22	31.16	5.83	-40.38	42.83	74.00	31.17	PK	Vertical
2	4842.00	44.73	33.59	7.55	-40.14	45.73	74.00	28.27	PK	Vertical
3	7252.60	42.69	36.81	7.63	-41.33	45.80	74.00	28.20	PK	Vertical
4	11332.60	41.43	39.23	9.95	-39.25	51.36	74.00	22.64	PK	Vertical
5	15601.30	38.01	38.60	14.07	-39.12	51.56	74.00	22.44	PK	Vertical
6	17981.30	39.08	42.31	13.11	-42.36	52.14	74.00	21.86	PK	Vertical

Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-03-11

Tested By:

Juchang Du

EUT:

True Wireless Earphones

Model Number:

AMIRON 100

Test Mode:

BLE 2M TX 2478MHz

Power Supply:

Battery

Condition:

Temp:23.5°C;Humi:59.7%

Test Site:

DDT 3# Chamber

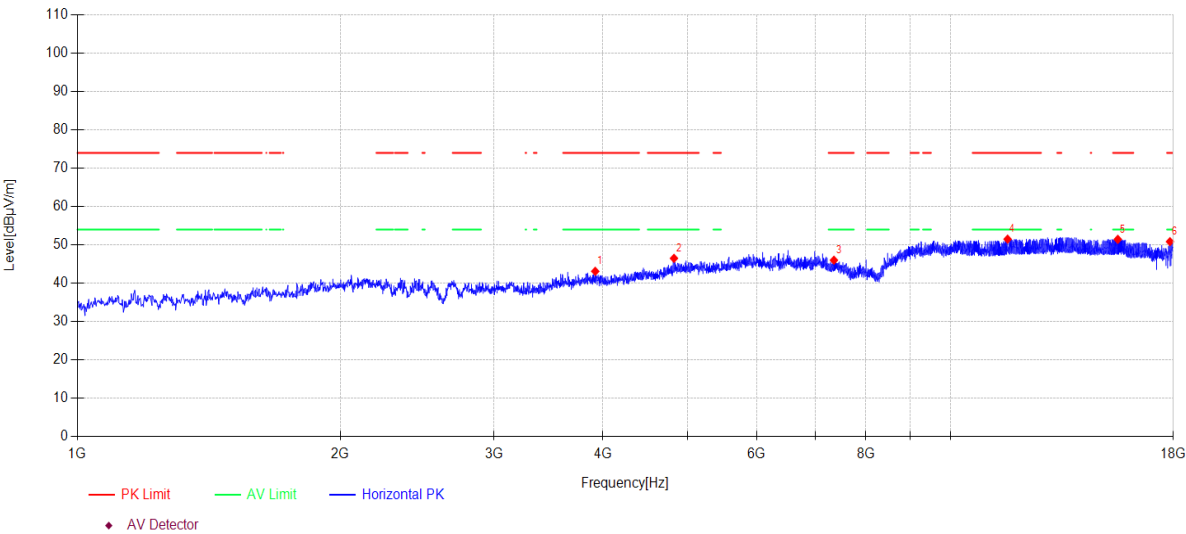
File Path:

d:\ts\2024 report data\Q24022619-2E AMIRON 100\FCC ABOVE 1G\55

Memo:

Right Side Sample Number: S24022619-002

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3918.90	46.53	31.16	5.83	-40.40	43.12	74.00	30.88	PK	Horizontal
2	4823.30	46.04	33.11	7.51	-40.15	46.51	74.00	27.49	PK	Horizontal
3	7354.60	43.19	36.79	7.63	-41.59	46.02	74.00	27.98	PK	Horizontal
4	11626.70	41.67	39.00	10.21	-39.38	51.50	74.00	22.50	PK	Horizontal
5	15546.90	38.00	38.71	13.83	-39.09	51.45	74.00	22.55	PK	Horizontal
6	17840.20	38.71	41.24	12.94	-42.04	50.85	74.00	23.15	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

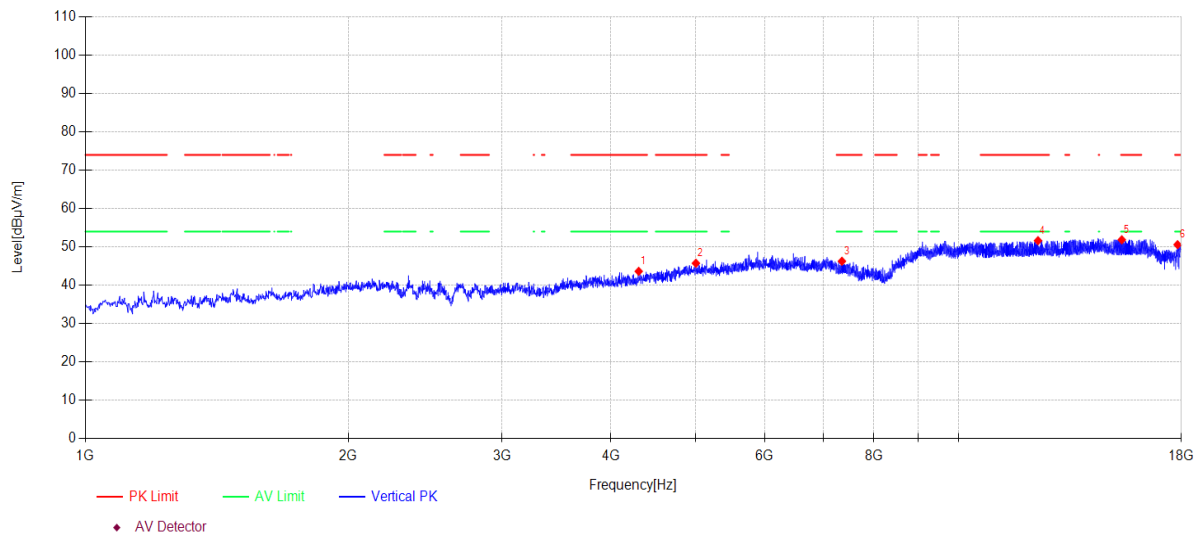
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2024-03-11 **Tested By:** Juchang Du
EUT: True Wireless Earphones **Model Number:** AMIRON 100
Test Mode: BLE 2M TX 2478MHz **Power Supply:** Battery
Condition: Temp:23.5°C;Humi:59.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24022619-2E AMIRON 100\FCC ABOVE 1G\56
Memo: Right Side Sample Number: S24022619-002

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4303.10	45.92	31.60	6.46	-40.34	43.64	74.00	30.36	PK	Vertical
2	5003.50	44.75	33.21	7.87	-40.08	45.75	74.00	28.25	PK	Vertical
3	7354.60	43.43	36.79	7.63	-41.59	46.26	74.00	27.74	PK	Vertical
4	12333.90	41.48	39.30	10.54	-39.69	51.63	74.00	22.37	PK	Vertical
5	15383.70	38.63	39.13	13.09	-38.99	51.86	74.00	22.14	PK	Vertical
6	17821.50	38.62	41.04	12.92	-42.00	50.58	74.00	23.42	PK	Vertical

Note:

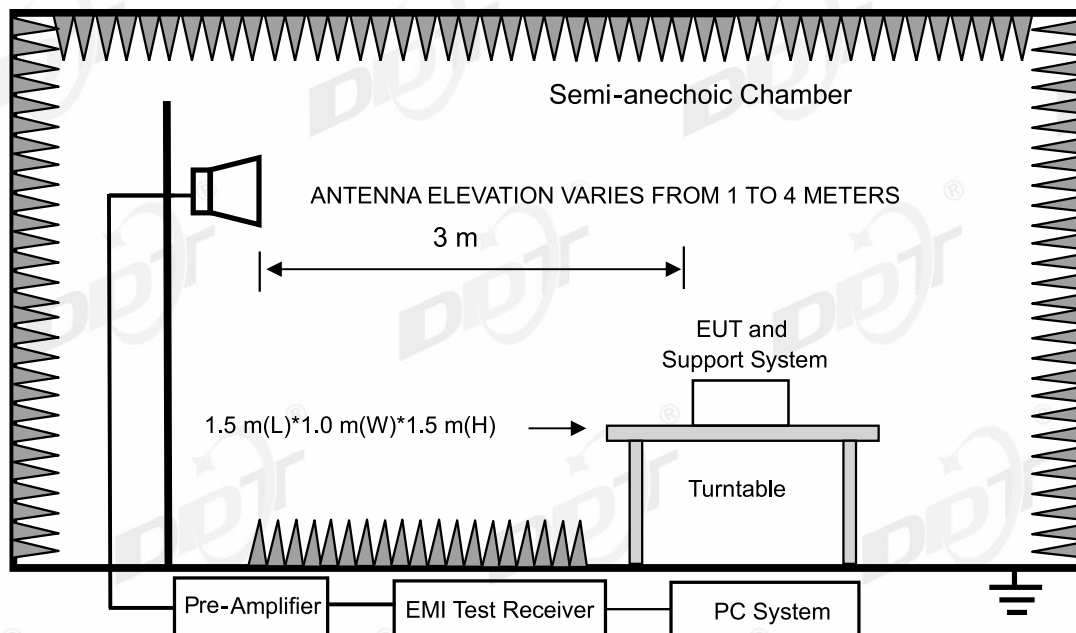
- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

12. Emissions in Restricted Frequency Bands

12.1. Test equipment

Equipment	Manufacturer	Model No.	Serial Number	Due Date
☑Radiation 3#Chamber				
EMI TEST RECEIVER	R&S	ESU26	100472	2024/04/22
Double Ridged Horn Antenna	Schwarzbeck	BBHA 9120 D	02468	2024/09/17
Pre-amplifier	COM-POWER	PAM-118A	18040084	2024/07/14
RF Cable	Yuhu	JCTB810-NJ-NJ-9M+ZT26S-SMAJ-SMAJ-1M	21123964	2024/04/22
Test Software	Tonscend	JS32-RE	V 5.0.0.1	N/A

12.2. Block diagram of test setup



12.3. Limit

All restriction band should comply with 15.209 limits, other emission should be at least 20 dB below the fundamental.

12.4. Test procedure

Same with Radiated Emission except change investigated frequency range from 2310 MHz to 2410 MHz and 2475 MHz to 2500 MHz.

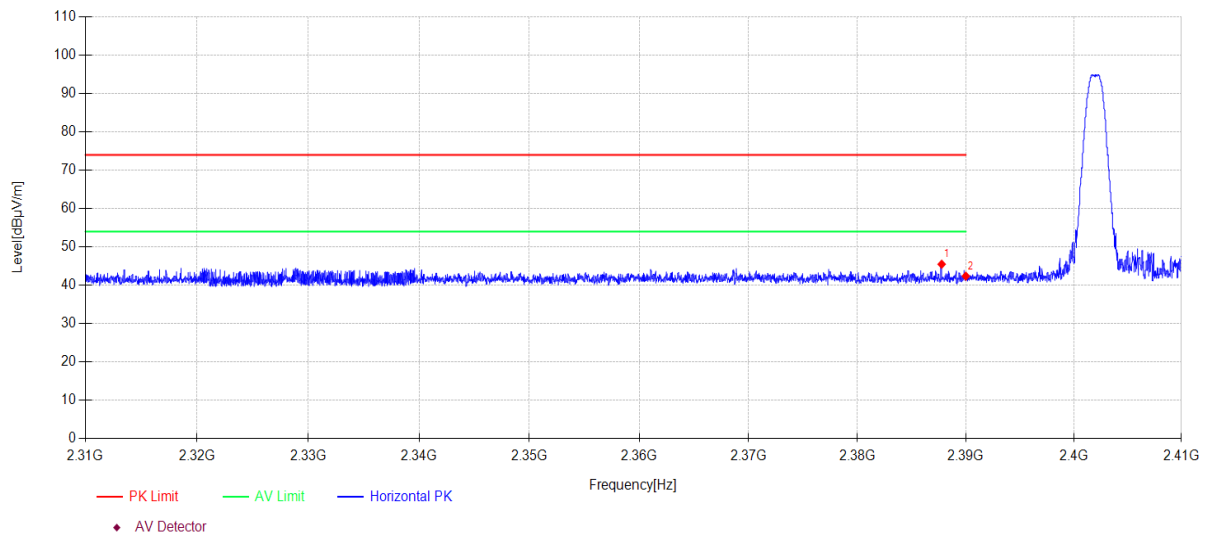
12.5. Test result

Pass. (See below detailed test result)

TR-4-E-009 Radiated Emission Test Result

Test Date: 2024-03-11 **Tested By:** Juchang Du
EUT: True Wireless Earphones **Model Number:** AMIRON 100
Test Mode: BLE 1M TX 2402MHz **Power Supply:** Battery
Condition: Temp:23.5°C;Humi:59.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24022619-2E AMIRON 100\FCC ABOVE 1G\31
Memo: Left Side Sample Number: S24022619-002

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2387.77	14.38	27.25	3.86	0.00	45.49	74.00	28.51	PK	Horizontal
2	2390.00	11.24	27.26	3.87	0.00	42.37	74.00	31.63	PK	Horizontal

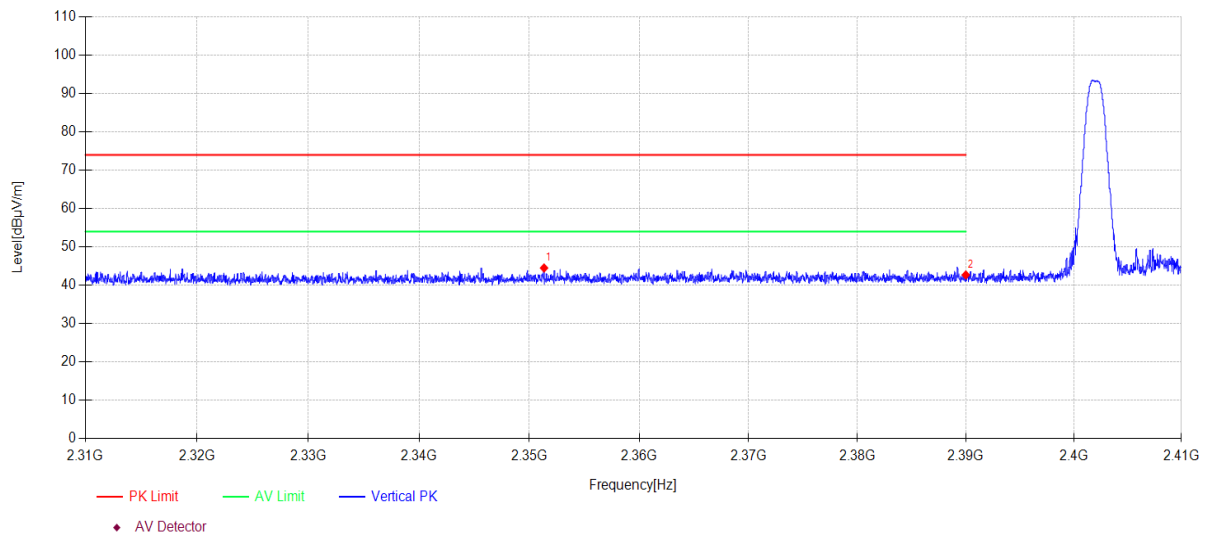
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2024-03-11 **Tested By:** Juchang Du
EUT: True Wireless Earphones **Model Number:** AMIRON 100
Test Mode: BLE 1M TX 2402MHz **Power Supply:** Battery
Condition: Temp:23.5°C;Humi:59.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24022619-2E AMIRON 100\FCC ABOVE 1G\32
Memo: Left Side Sample Number: S24022619-002

Test Graph



Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2351.34	13.56	27.11	3.84	0.00	44.51	74.00	29.49	PK	Vertical
2	2390.00	11.56	27.26	3.87	0.00	42.69	74.00	31.31	PK	Vertical

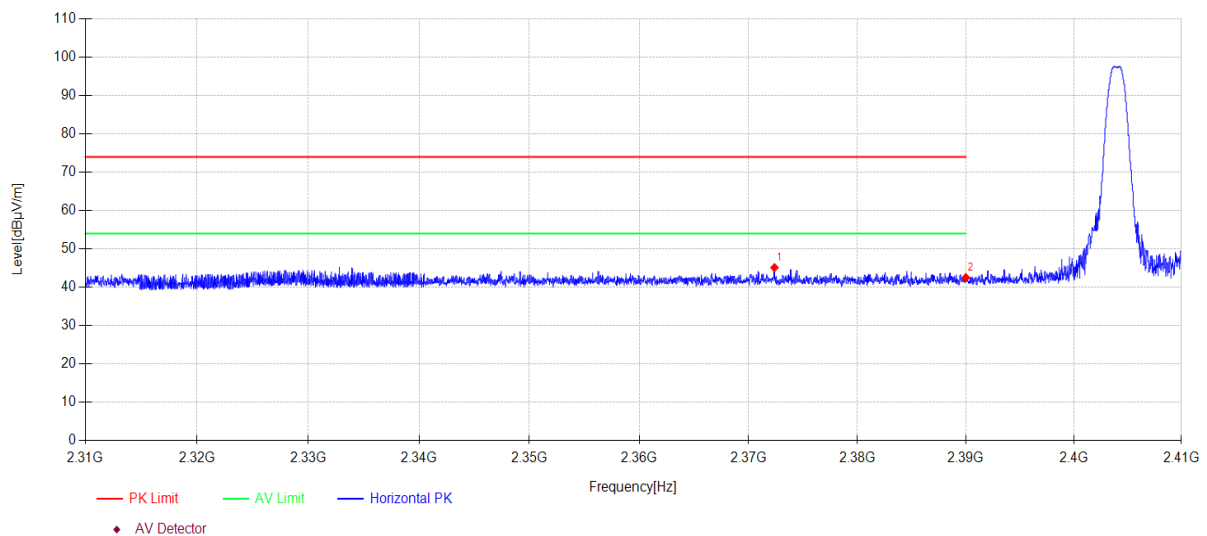
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2024-03-11 **Tested By:** Juchang Du
EUT: True Wireless Earphones **Model Number:** AMIRON 100
Test Mode: BLE 2M TX 2404MHz **Power Supply:** Battery
Condition: Temp:23.5°C;Humi:59.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24022619-2E AMIRON 100\FCC ABOVE 1G\33
Memo: Left Side Sample Number: S24022619-002

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2372.38	14.09	27.19	3.85	0.00	45.13	74.00	28.87	PK	Horizontal
2	2390.00	11.39	27.26	3.87	0.00	42.52	74.00	31.48	PK	Horizontal

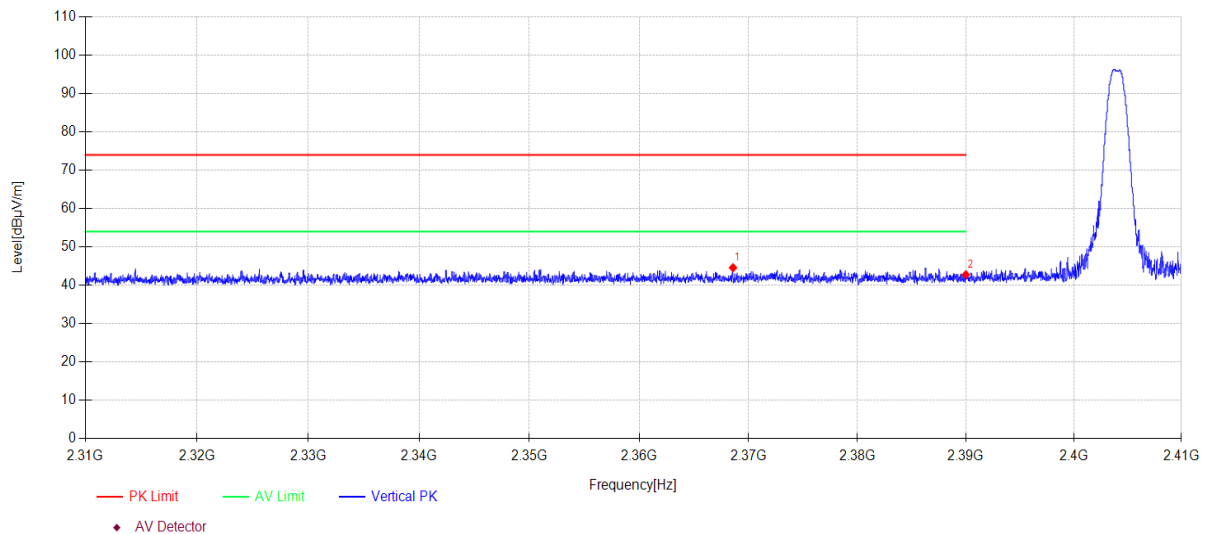
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2024-03-11 **Tested By:** Juchang Du
EUT: True Wireless Earphones **Model Number:** AMIRON 100
Test Mode: BLE 2M TX 2404MHz **Power Supply:** Battery
Condition: Temp:23.5°C;Humi:59.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24022619-2E AMIRON 100\FCC ABOVE 1G\34
Memo: Left Side Sample Number: S24022619-002

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2368.58	13.56	27.17	3.85	0.00	44.58	74.00	29.42	PK	Vertical
2	2390.00	11.64	27.26	3.87	0.00	42.77	74.00	31.23	PK	Vertical

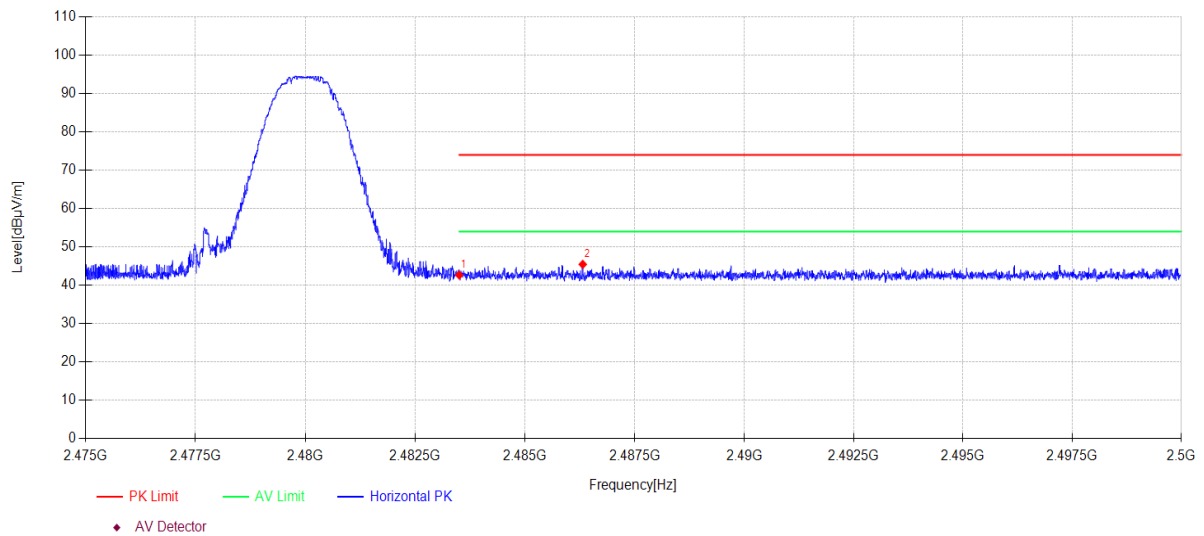
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2024-03-11 **Tested By:** Juchang Du
EUT: True Wireless Earphones **Model Number:** AMIRON 100
Test Mode: BLE 1M TX 2480MHz **Power Supply:** Battery
Condition: Temp:23.5°C;Humi:59.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24022619-2E AMIRON 100\FCC ABOVE 1G\35
Memo: Left Side Sample Number: S24022619-002

Test Graph



Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.50	11.20	27.53	3.94	0.00	42.67	74.00	31.33	PK	Horizontal
2	2486.32	13.97	27.55	3.94	0.00	45.46	74.00	28.54	PK	Horizontal

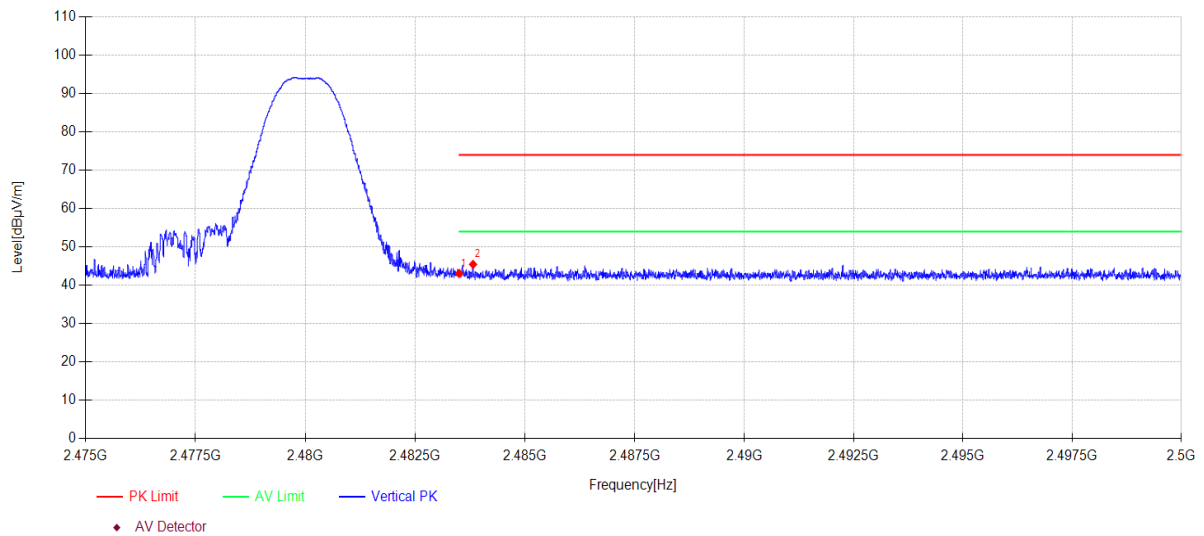
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2024-03-11 **Tested By:** Juchang Du
EUT: True Wireless Earphones **Model Number:** AMIRON 100
Test Mode: BLE 1M TX 2480MHz **Power Supply:** Battery
Condition: Temp:23.5°C;Humi:59.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24022619-2E AMIRON 100\FCC ABOVE 1G\36
Memo: Left Side Sample Number: S24022619-002

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.50	11.60	27.53	3.94	0.00	43.07	74.00	30.93	PK	Vertical
2	2483.82	13.97	27.54	3.94	0.00	45.45	74.00	28.55	PK	Vertical

Note:

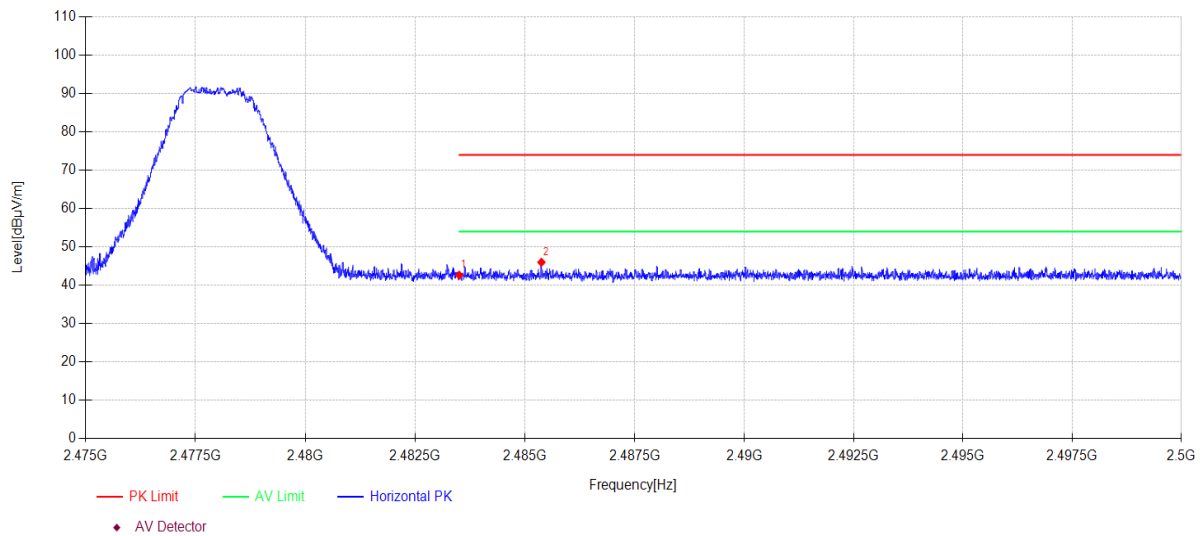
- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2024-03-11
EUT: True Wireless Earphones
Test Mode: BLE 2M TX 2478MHz
Condition: Temp:23.5°C;Humi:59.7%
File Path: d:\ts\2024 report data\Q24022619-2E AMIRON 100\FCC ABOVE 1G\37
Memo: Left Side Sample Number: S24022619-002

Tested By: Juchang Du
Model Number: AMIRON 100
Power Supply: Battery
Test Site: DDT 3# Chamber

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.50	11.17	27.53	3.94	0.00	42.64	74.00	31.36	PK	Horizontal
2	2485.37	14.53	27.54	3.94	0.00	46.01	74.00	27.99	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-03-11

Tested By:

Juchang Du

EUT:

True Wireless Earphones

Model Number:

AMIRON 100

Test Mode:

BLE 2M TX 2478MHz

Power Supply:

Battery

Condition:

Temp:23.5°C;Humi:59.7%

Test Site:

DDT 3# Chamber

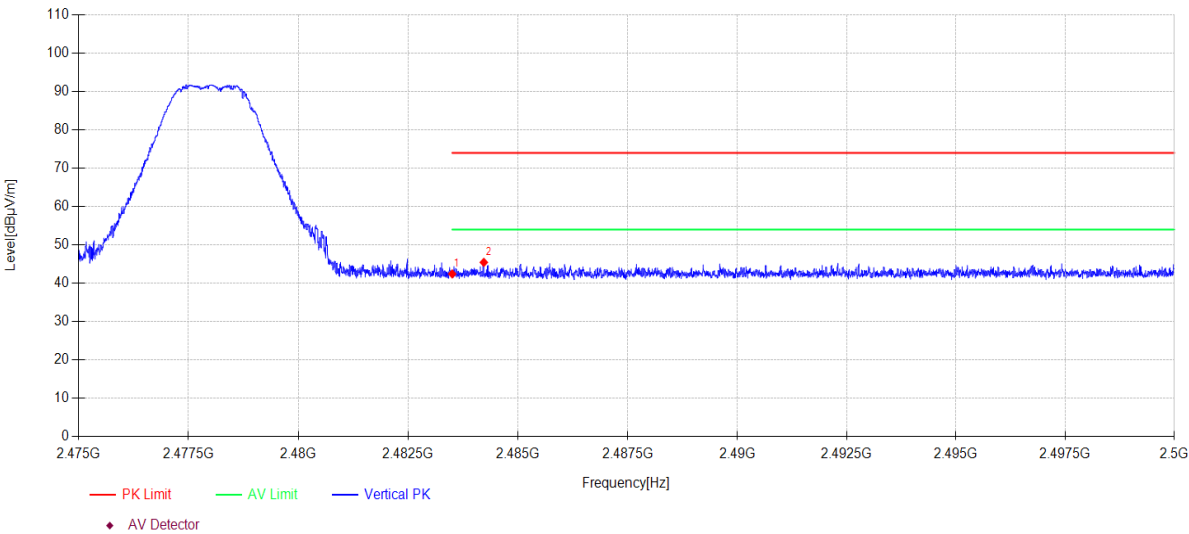
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d:\ts\2024 report data\Q24022619-2E AMIRON 100\FCC ABOVE 1G\38

Memo:

Left Side Sample Number: S24022619-002

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.50	10.97	27.53	3.94	0.00	42.44	74.00	31.56	PK	Vertical
2	2484.22	13.97	27.54	3.94	0.00	45.45	74.00	28.55	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

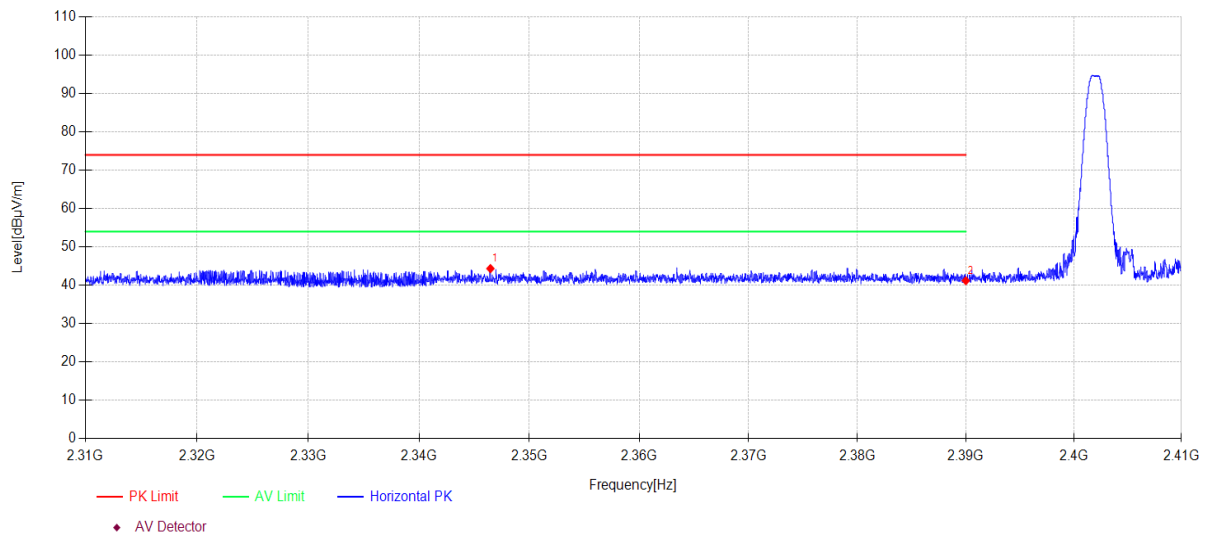
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2024-03-11 **Tested By:** Juchang Du
EUT: True Wireless Earphones **Model Number:** AMIRON 100
Test Mode: BLE 1M TX 2402MHz **Power Supply:** Battery
Condition: Temp:23.5°C;Humi:59.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24022619-2E AMIRON 100\FCC ABOVE 1G\69
Memo: Right Side Sample Number: S24022619-002

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2346.47	13.44	27.08	3.83	0.00	44.35	74.00	29.65	PK	Horizontal
2	2390.00	10.07	27.26	3.87	0.00	41.20	74.00	32.80	PK	Horizontal

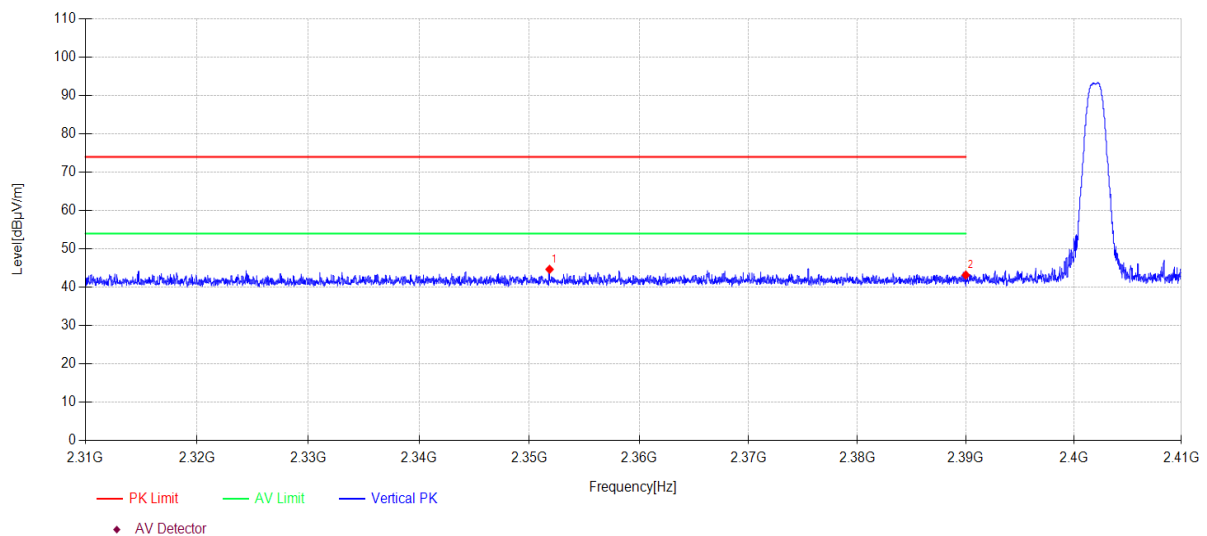
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2024-03-11 **Tested By:** Juchang Du
EUT: True Wireless Earphones **Model Number:** AMIRON 100
Test Mode: BLE 1M TX 2402MHz **Power Supply:** Battery
Condition: Temp:23.5°C;Humi:59.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24022619-2E AMIRON 100\FCC ABOVE 1G\70
Memo: Right Side Sample Number: S24022619-002

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2351.84	13.72	27.11	3.84	0.00	44.67	74.00	29.33	PK	Vertical
2	2390.00	12.06	27.26	3.87	0.00	43.19	74.00	30.81	PK	Vertical

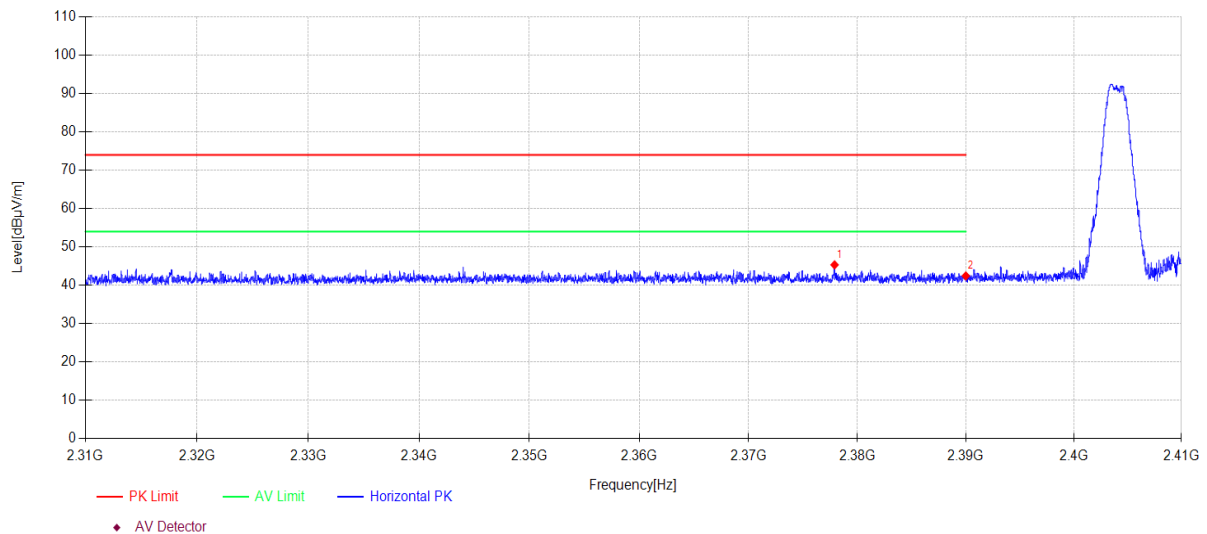
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2024-03-11 **Tested By:** Juchang Du
EUT: True Wireless Earphones **Model Number:** AMIRON 100
Test Mode: BLE 2M TX 2404MHz **Power Supply:** Battery
Condition: Temp:23.5°C;Humi:59.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24022619-2E AMIRON 100\FCC ABOVE 1G\71
Memo: Right Side Sample Number: S24022619-002

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2377.90	14.26	27.21	3.86	0.00	45.33	74.00	28.67	PK	Horizontal
2	2390.00	11.30	27.26	3.87	0.00	42.43	74.00	31.57	PK	Horizontal

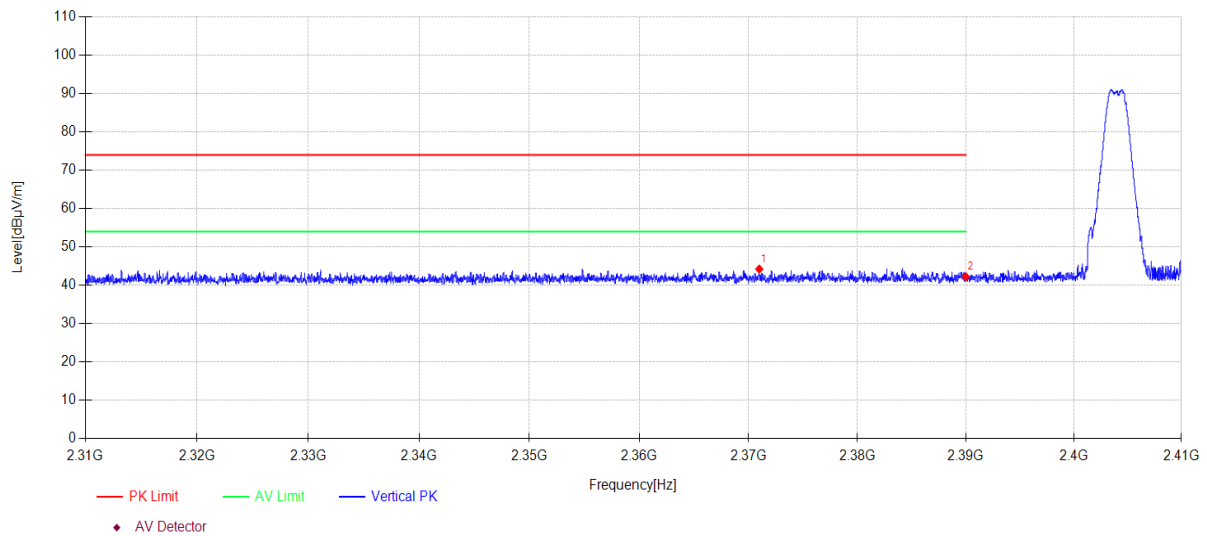
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2024-03-11 **Tested By:** Juchang Du
EUT: True Wireless Earphones **Model Number:** AMIRON 100
Test Mode: BLE 2M TX 2404MHz **Power Supply:** Battery
Condition: Temp:23.5°C;Humi:59.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24022619-2E AMIRON 100\FCC ABOVE 1G\72
Memo: Right Side Sample Number: S24022619-002

Test Graph



Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2370.99	13.19	27.18	3.85	0.00	44.22	74.00	29.78	PK	Vertical
2	2390.00	11.10	27.26	3.87	0.00	42.23	74.00	31.77	PK	Vertical

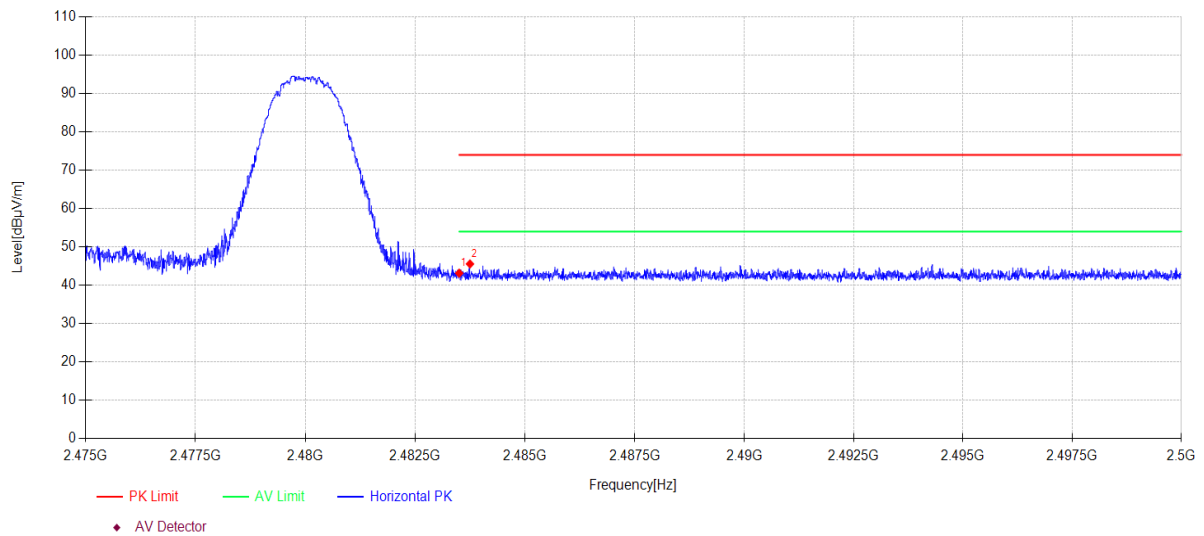
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2024-03-11 **Tested By:** Juchang Du
EUT: True Wireless Earphones **Model Number:** AMIRON 100
Test Mode: BLE 1M TX 2480MHz **Power Supply:** Battery
Condition: Temp:23.5°C;Humi:59.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24022619-2E AMIRON 100\FCC ABOVE 1G\73
Memo: Right Side Sample Number: S24022619-002

Test Graph



Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.50	11.69	27.53	3.94	0.00	43.16	74.00	30.84	PK	Horizontal
2	2483.75	14.09	27.53	3.94	0.00	45.56	74.00	28.44	PK	Horizontal

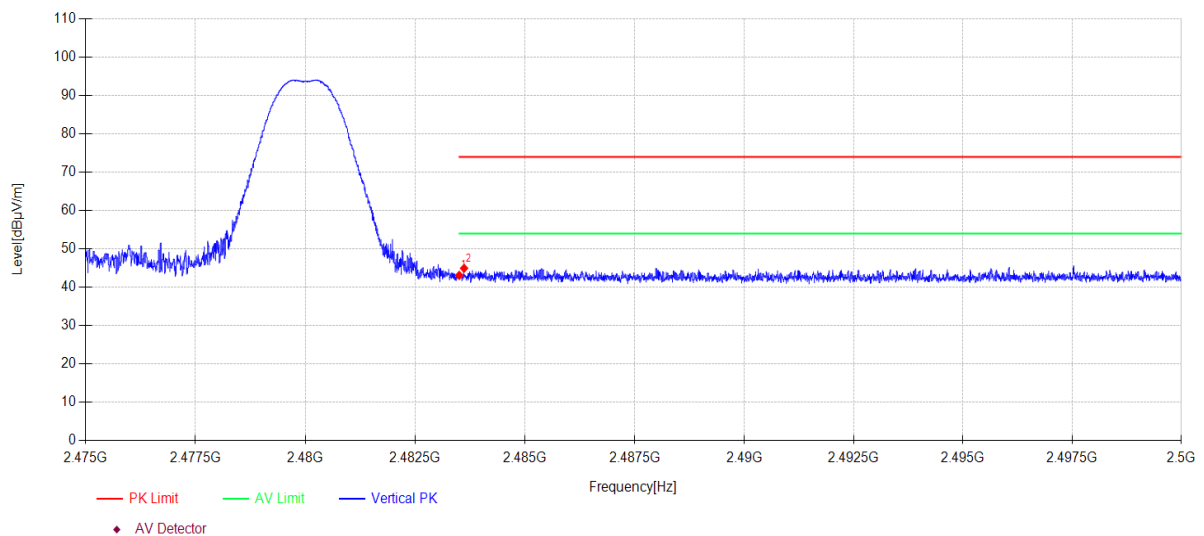
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2024-03-11 **Tested By:** Juchang Du
EUT: True Wireless Earphones **Model Number:** AMIRON 100
Test Mode: BLE 1M TX 2480MHz **Power Supply:** Battery
Condition: Temp:23.5°C;Humi:59.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24022619-2E AMIRON 100\FCC ABOVE 1G\74
Memo: Right Side Sample Number: S24022619-002

Test Graph



Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.50	11.65	27.53	3.94	0.00	43.12	74.00	30.88	PK	Vertical
2	2483.61	13.48	27.53	3.94	0.00	44.95	74.00	29.05	PK	Vertical

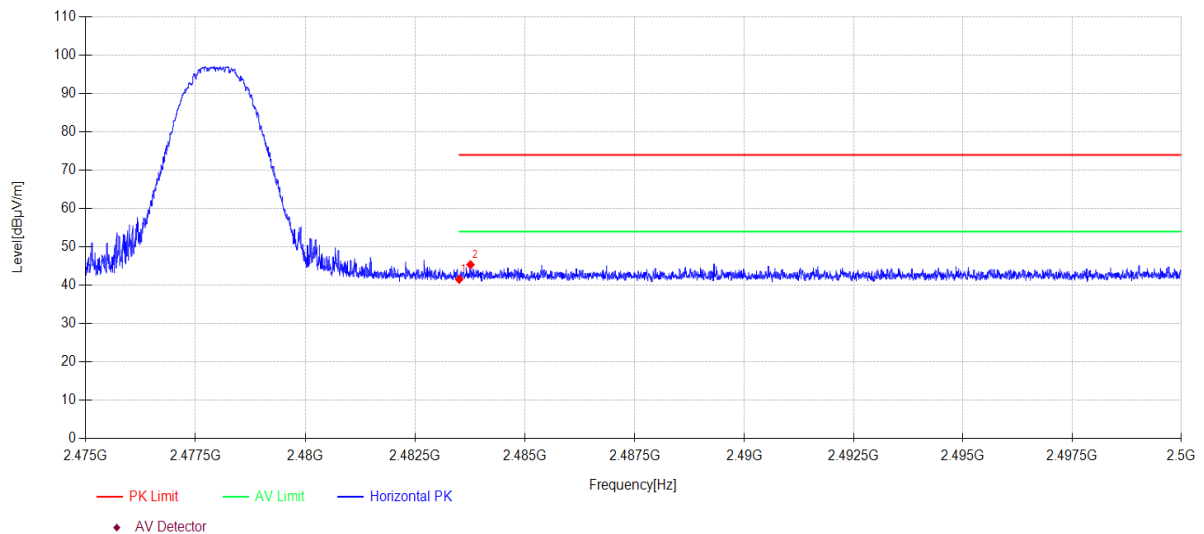
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2024-03-11 **Tested By:** Juchang Du
EUT: True Wireless Earphones **Model Number:** AMIRON 100
Test Mode: BLE 2M TX 2478MHz **Power Supply:** Battery
Condition: Temp:23.5°C;Humi:59.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24022619-2E AMIRON 100\FCC ABOVE 1G\75
Memo: Right Side Sample Number: S24022619-002

Test Graph



Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.50	10.09	27.53	3.94	0.00	41.56	74.00	32.44	PK	Horizontal
2	2483.76	13.88	27.54	3.94	0.00	45.36	74.00	28.64	PK	Horizontal

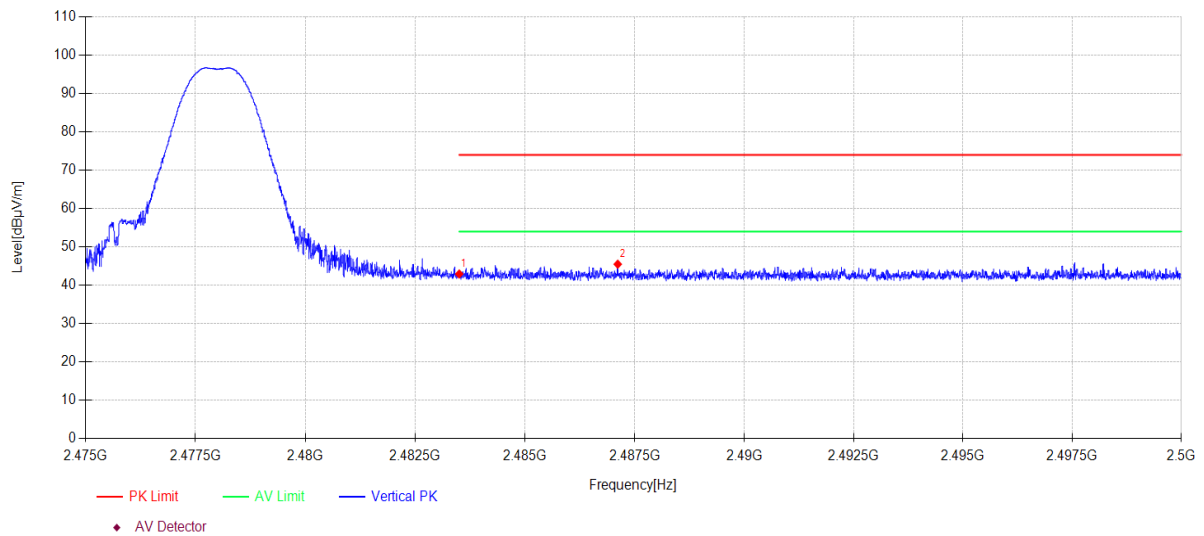
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2024-03-11 **Tested By:** Juchang Du
EUT: True Wireless Earphones **Model Number:** AMIRON 100
Test Mode: BLE 2M TX 2478MHz **Power Supply:** Battery
Condition: Temp:23.5°C;Humi:59.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24022619-2E AMIRON 100\FCC ABOVE 1G\76
Memo: Right Side Sample Number: S24022619-002

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.50	11.48	27.53	3.94	0.00	42.95	74.00	31.05	PK	Vertical
2	2487.11	14.00	27.55	3.94	0.00	45.49	74.00	28.51	PK	Vertical

Note:

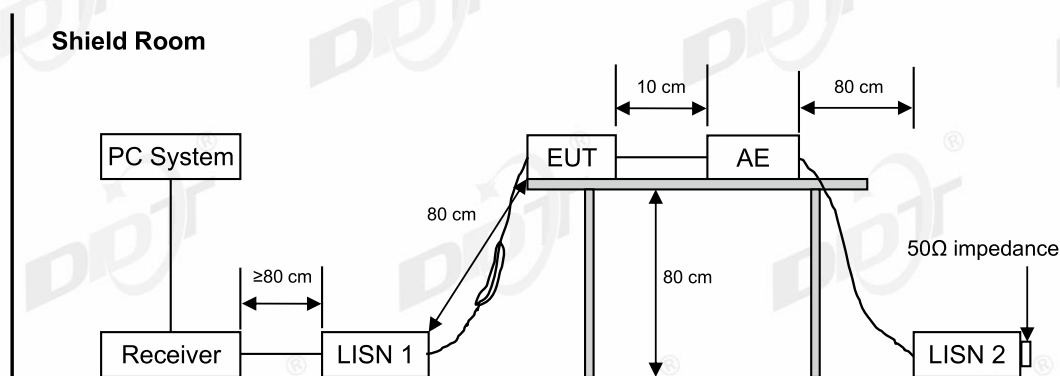
- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

13. Power Line Conducted Emission

13.1. Test equipment

Equipment	Manufacturer	Model No.	Serial Number	Due Date
☑Power Line Conducted Emissions Test 2#				
Test Receiver	R&S	ESCI	101032	2024/04/22
LISN 1	R&S	ENV216	101170	2024/07/11
LISN 2	R&S	ENV216	101209	2024/07/11
Pulse Limiter	R&S	KH43101	431011801568-12#	2024/05/04
CE Cable 2	HUBSER	RG214-5	N/A	2024/04/26
Test software	Audix	E3	V 6.11111b	N/A

13.2. Block diagram of test setup



13.3. Power line conducted emission limits

Frequency	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150 kHz ~ 500 kHz	66 ~ 56*	56 ~ 46*
500 kHz ~ 5 MHz	56	46
5 MHz ~ 30 MHz	60	50

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

13.4. Test procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80 cm above the ground plane.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver

connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

13.5. Test result

Pass. (See below detailed test result)

Note1: All emissions not reported below are too low against the prescribed limits.

Note2: “-----” means Peak detection; “-----” means Average detection.

Note3: Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/50Hz, recorded worse case.

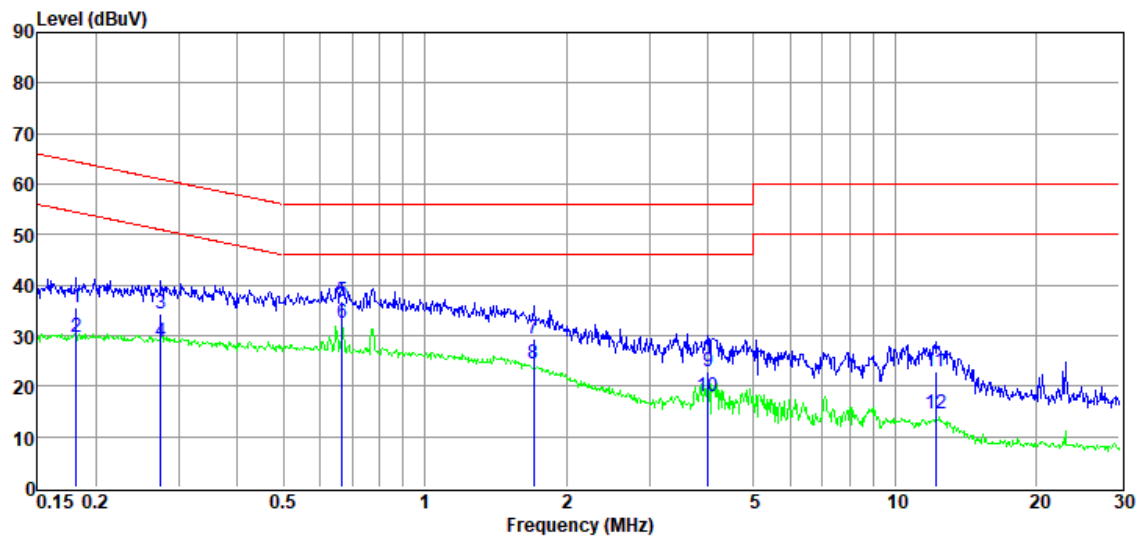
TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 5# Shield Room**Test Date** : 2024-03-12**EUT** : True Wireless Earphones**Power Supply** : AC 120V/60Hz**Condition** : Temp:24.5°C,Humi:55.5%**Memo** : Sample Number:S24022619-002

D:\2024 report data\Q24022619-2E True Wireless Earphones\FCC CF FM6

Tested By : Junchang Du**Model Number** : AMIRON 100**Test Mode** : Tx mode**LISN** : 2023 ENV216 2#/NEUTRAL

Data: 6



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	LISN Factor (dB)	Cable Loss (dB)	Pulse Limiter Factor (dB)	Result Level (dBμV)	Limit Line (dBμV)	Over Limit (dB)	Detector	Phase
1	0.18	15.16	9.95	0.19	10.15	35.45	64.42	-28.97	QP	NEUTRAL
2	0.18	9.45	9.95	0.19	10.15	29.74	54.42	-24.68	Average	NEUTRAL
3	0.27	13.90	9.97	0.23	10.12	34.22	60.98	-26.76	QP	NEUTRAL
4	0.27	8.57	9.97	0.23	10.12	28.89	50.98	-22.09	Average	NEUTRAL
5	0.67	16.60	9.94	0.26	9.98	36.78	56.00	-19.22	QP	NEUTRAL
6	0.67	12.15	9.94	0.26	9.98	32.33	46.00	-13.67	Average	NEUTRAL
7	1.71	9.44	9.98	0.35	9.76	29.53	56.00	-26.47	QP	NEUTRAL
8	1.71	4.22	9.98	0.35	9.76	24.31	46.00	-21.69	Average	NEUTRAL
9	4.01	2.54	10.06	0.36	9.93	22.89	56.00	-33.11	QP	NEUTRAL
10	4.01	-2.55	10.06	0.36	9.93	17.80	46.00	-28.20	Average	NEUTRAL
11	12.19	2.19	10.04	0.39	10.14	22.76	60.00	-37.24	QP	NEUTRAL
12	12.19	-6.00	10.04	0.39	10.14	14.57	50.00	-35.43	Average	NEUTRAL

Note: 1. Result Level = Read Level + LISN Factor + Pulse Limiter Factor + Cable loss.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

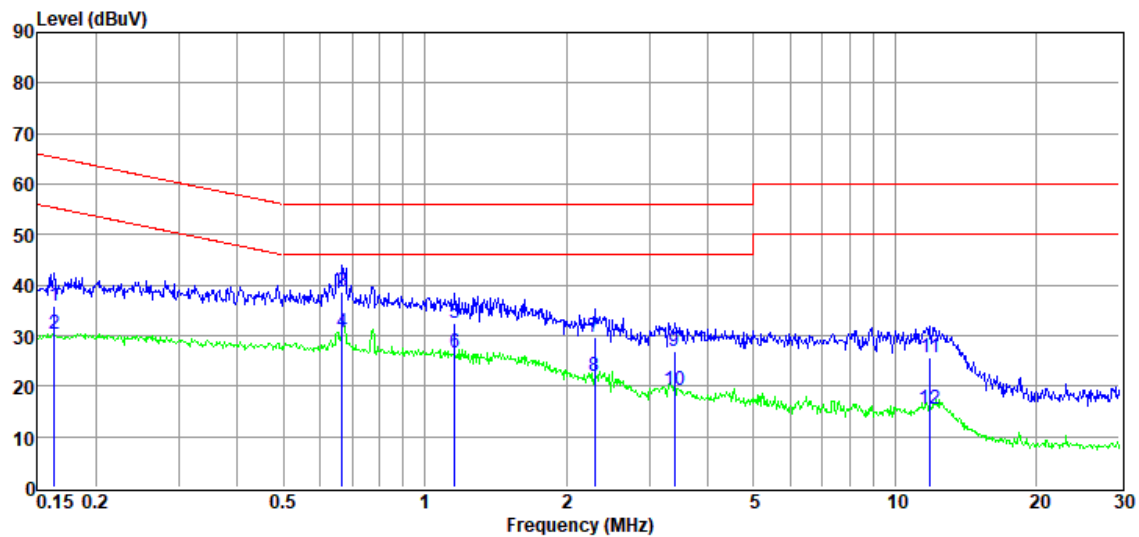
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).

4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 5# Shield Room**Test Date** : 2024-03-12**EUT** : True Wireless Earphones**Power Supply** : AC 120V/60Hz**Condition** : Temp:24.5°C,Humi:55.5%**Memo** : Sample Number:S24022619-002D:\2024 report data\Q24022619-2E AMIRON 100\FCC
CF FM6**Tested By** : Junchang Du**Model Number** : AMIRON 100**Test Mode** : Tx mode**LISN** : 2023 ENV216 2#/LINE

Data: 8



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	LISN Factor (dB)	Cable Loss (dB)	Pulse Limiter Factor (dB)	Result Level (dBμV)	Limit Line (dBμV)	Over Limit (dB)	Detector	Phase
1	0.16	15.50	9.95	0.19	10.15	35.79	65.30	-29.51	QP	LINE
2	0.16	9.91	9.95	0.19	10.15	30.20	55.30	-25.10	Average	LINE
3	0.67	18.40	9.90	0.26	9.98	38.54	56.00	-17.46	QP	LINE
4	0.67	10.60	9.90	0.26	9.98	30.74	46.00	-15.26	Average	LINE
5	1.16	12.24	10.02	0.34	9.85	32.45	56.00	-23.55	QP	LINE
6	1.16	6.34	10.02	0.34	9.85	26.55	46.00	-19.45	Average	LINE
7	2.30	9.56	10.02	0.35	9.77	29.70	56.00	-26.30	QP	LINE
8	2.30	1.68	10.02	0.35	9.77	21.82	46.00	-24.18	Average	LINE
9	3.40	6.70	9.96	0.36	9.88	26.90	56.00	-29.10	QP	LINE
10	3.40	-1.10	9.96	0.36	9.88	19.10	46.00	-26.90	Average	LINE
11	11.87	5.01	10.03	0.39	10.14	25.57	60.00	-34.43	QP	LINE
12	11.87	-5.04	10.03	0.39	10.14	15.52	50.00	-34.48	Average	LINE

Note: 1. Result Level = Read Level + LISN Factor + Pulse Limiter Factor + Cable loss.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).

4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

14. Antenna Requirements

14.1. Limit

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

14.2. Result

The antenna used for this product is monopole antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the left side transmit antenna is -6.5 dBi and right side is -6.8 dBi.

16. Photos of the EUT

Please refer to DDT-Q24032904-1E appendix I.

END OF REPORT