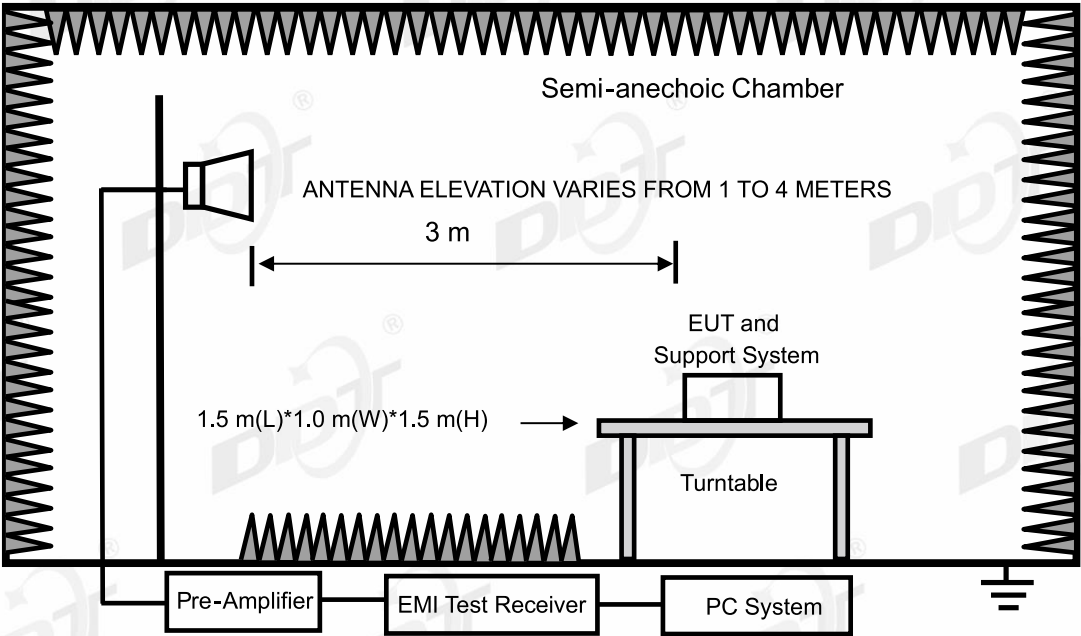


15.2. Block diagram of test setup



15.3. Limits

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

15.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
/	/	/	/	/

15.5. Test procedure

Same with Radiated Emission except change investigated frequency range.
Remark: All restriction band have been tested, and only the worst case is shown in report.

15.6. Test result

PASS. (See below detailed test result)

15.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-05-06

Tested By:

Genliu

EUT:

JLAB True Wireless Earbuds

Model Number:

JBuds Sport ANC 4

Test Mode:

DH5 TX 2402MHz

Power Supply:

Battery

Condition:

Temp:22.5°C;Humi:56.3%

Test Site:

DDT 3# Chamber

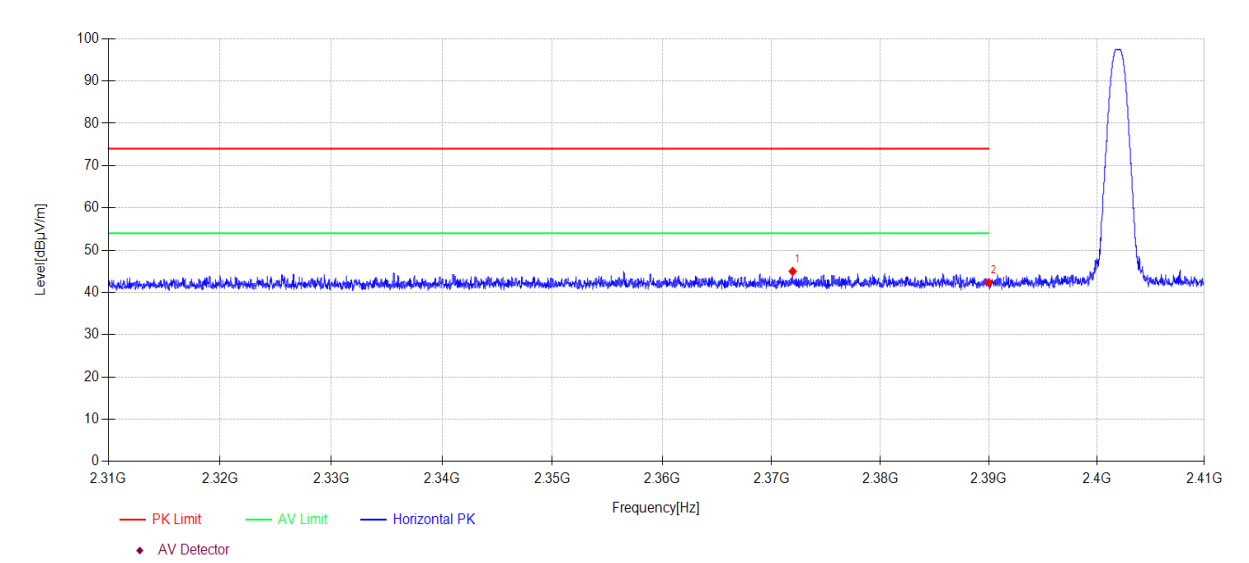
File Path:

d:\ts\2024 report data\Q24031401-1E\FCC ABOVE 1G\19

Memo:

Right side Sample Number:S24031401-002 Power Setting:5

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	2371.940	13.95	27.19	3.85	0.00	44.99	74.00	29.01	PK	Horizontal
2	2390.000	11.21	27.26	3.87	0.00	42.34	74.00	31.66	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:

2024-05-06

Tested By:

Genliu

EUT:

JLAB True Wireless Earbuds

Model Number:

JBuds Sport ANC 4

Test Mode:

DH5 TX 2402MHz

Power Supply:

Battery

Condition:

Temp:22.5°C;Humi:56.3%

Test Site:

DDT 3# Chamber

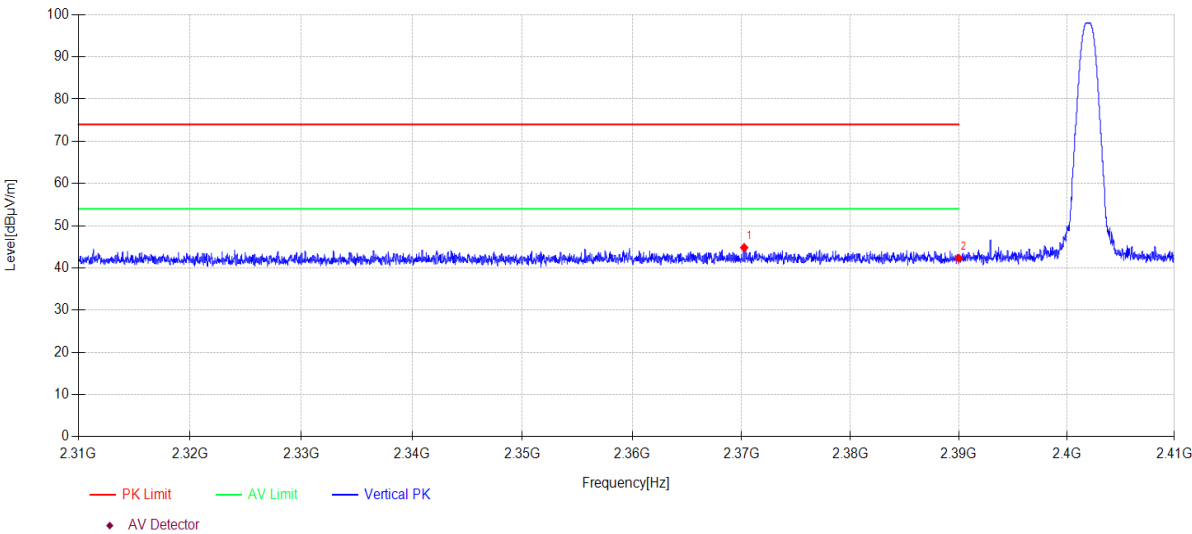
File Path:

d:\ts\2024 report data\Q24031401-1E\FCC ABOVE 1G\20

Memo:

Right side Sample Number:S24031401-002 Power Setting:5

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	2370.250	13.79	27.18	3.85	0.00	44.82	74.00	29.18	PK	Vertical
2	2390.000	11.16	27.26	3.87	0.00	42.29	74.00	31.71	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:

2024-05-06

Tested By:

Genliu

EUT:

JLAB True Wireless Earbuds

Model Number:

JBuds Sport ANC 4

Test Mode:

2DH5 TX 2402MHz

Power Supply:

Battery

Condition:

Temp:22.5°C;Humi:56.3%

Test Site:

DDT 3# Chamber

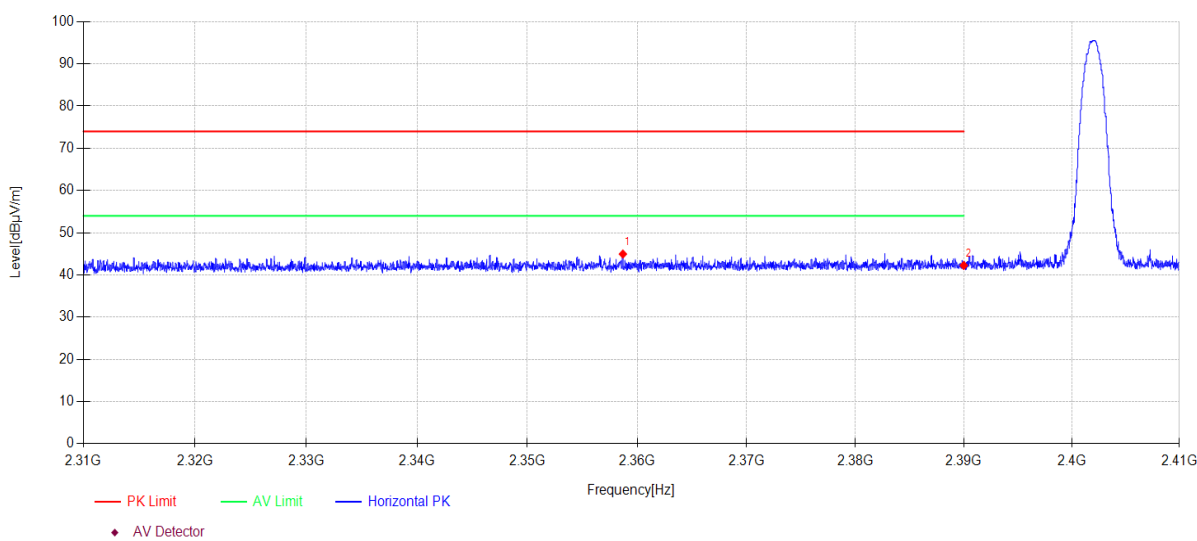
File Path:

d:\ts\2024 report data\Q24031401-1E\FCC ABOVE 1G\21

Memo:

Right side Sample Number:S24031401-002 Power Setting:5

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	2358.700	13.98	27.13	3.84	0.00	44.95	74.00	29.05	PK	Horizontal
2	2390.000	11.12	27.26	3.87	0.00	42.25	74.00	31.75	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:

2024-05-06

Tested By:

Genliu

EUT:

JLAB True Wireless Earbuds

Model Number:

JBuds Sport ANC 4

Test Mode:

2DH5 TX 2402MHz

Power Supply:

Battery

Condition:

Temp:22.5°C;Humi:56.3%

Test Site:

DDT 3# Chamber

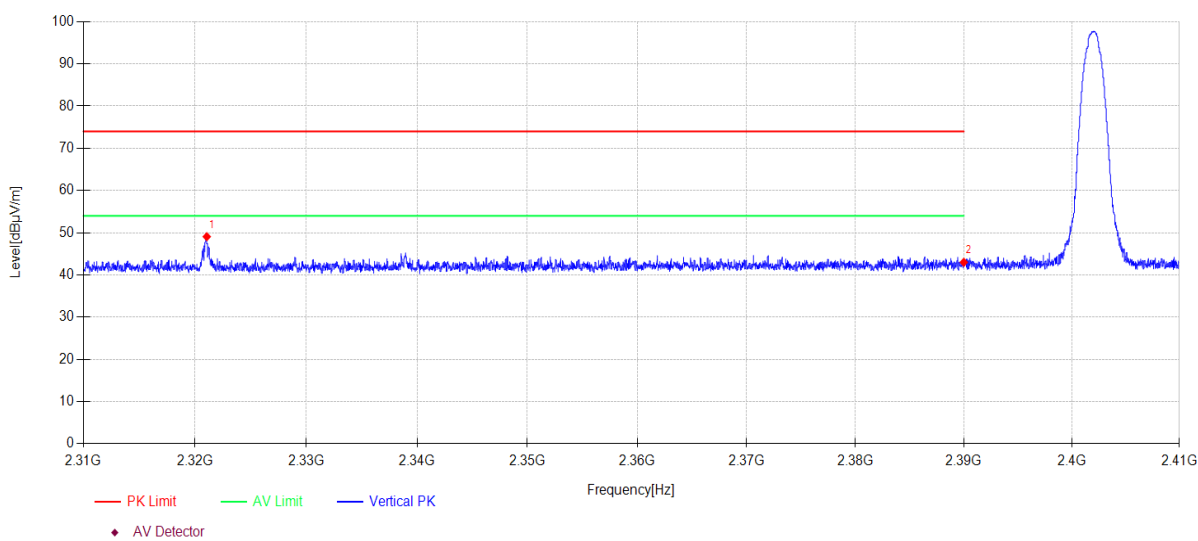
File Path:

d:\ts\2024 report data\Q24031401-1E\FCC ABOVE 1G\22

Memo:

Right side Sample Number:S24031401-002 Power Setting:5

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	2321.050	18.33	26.93	3.81	0.00	49.07	74.00	24.93	PK	Vertical
2	2390.000	11.87	27.26	3.87	0.00	43.00	74.00	31.00	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:

2024-05-06

Tested By:

Genliu

EUT:

JLAB True Wireless Earbuds

Model Number:

JBuds Sport ANC 4

Test Mode:

3DH5 TX 2402MHz

Power Supply:

Battery

Condition:

Temp:22.5°C;Humi:56.3%

Test Site:

DDT 3# Chamber

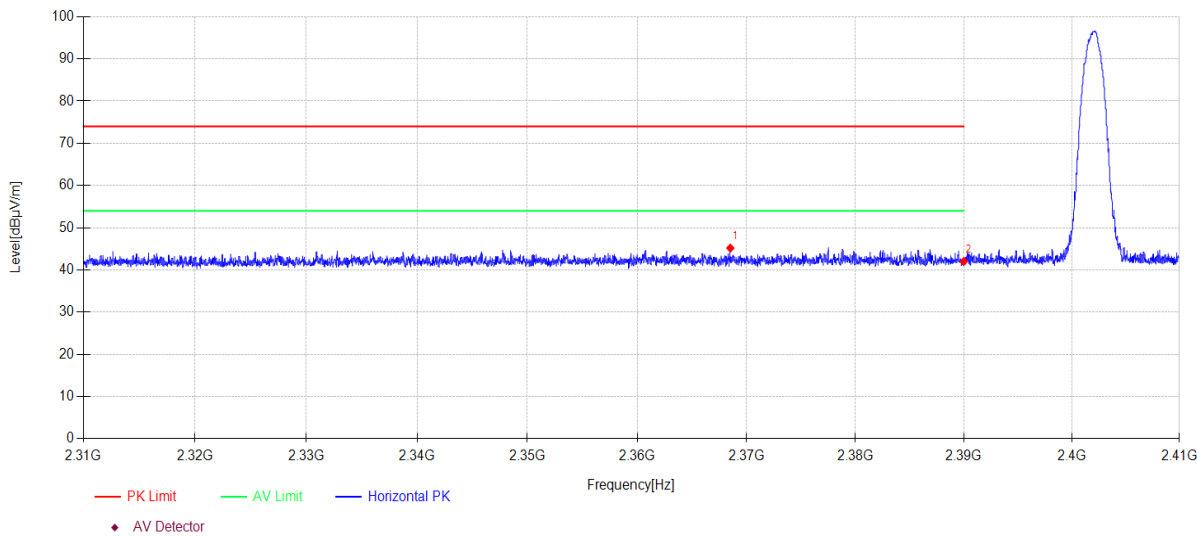
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d:\ts\2024 report data\Q24031401-1E\FCC ABOVE 1G\23

Memo:

Right side Sample Number:S24031401-002 Power Setting:5

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	2368.520	14.16	27.17	3.85	0.00	45.18	74.00	28.82	PK	Horizontal
2	2390.000	10.88	27.26	3.87	0.00	42.01	74.00	31.99	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:

2024-05-06

Tested By:

Genliu

EUT:

JLAB True Wireless Earbuds

Model Number:

JBuds Sport ANC 4

Test Mode:

3DH5 TX 2402MHz

Power Supply:

Battery

Condition:

Temp:22.5°C;Humi:56.3%

Test Site:

DDT 3# Chamber

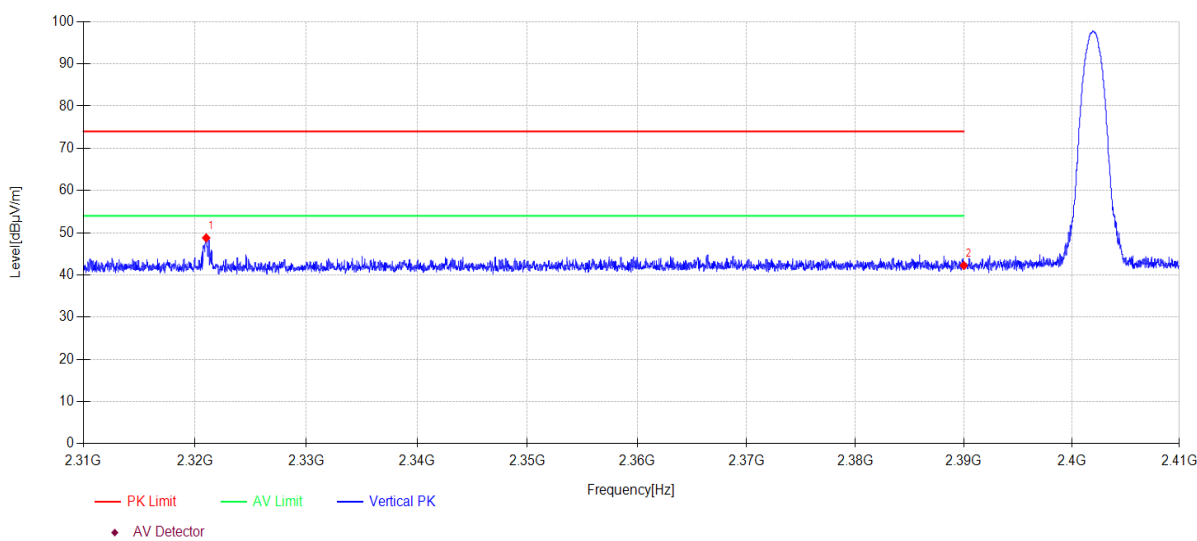
File Path:

d:\ts\2024 report data\Q24031401-1E\FCC ABOVE 1G\24

Memo:

Right side Sample Number:S24031401-002 Power Setting:5

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	2321.000	18.04	26.93	3.81	0.00	48.78	74.00	25.22	PK	Vertical
2	2390.000	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:

2024-05-06

Tested By:

Genliu

EUT:

JLAB True Wireless Earbuds

Model Number:

JBuds Sport ANC 4

Test Mode:

DH5 TX 2480MHz

Power Supply:

Battery

Condition:

Temp:22.5°C;Humi:56.3%

Test Site:

DDT 3# Chamber

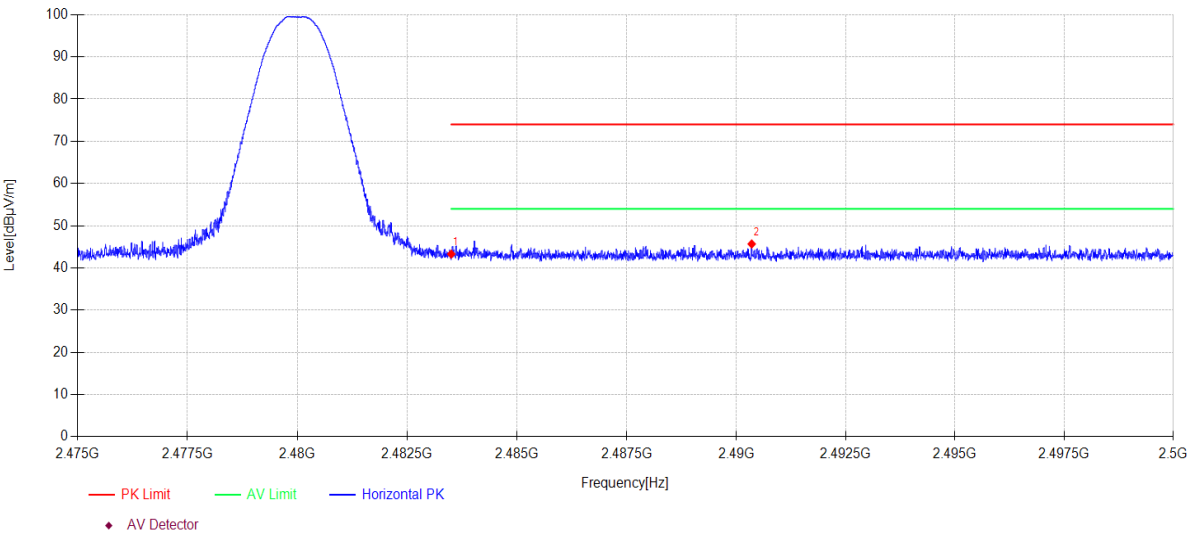
File Path:

d:\ts\2024 report data\Q24031401-1E\FCC ABOVE 1G\29

Memo:

Right side Sample Number:S24031401-002 Power Setting:5

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	2483.500	11.82	27.53	3.94	0.00	43.29	74.00	30.71	PK	Horizontal
2	2490.353	14.18	27.56	3.94	0.00	45.68	74.00	28.32	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:

2024-05-06

Tested By:

Genliu

EUT:

JLAB True Wireless Earbuds

Model Number:

JBuds Sport ANC 4

Test Mode:

DH5 TX 2480MHz

Power Supply:

Battery

Condition:

Temp:22.5°C;Humi:56.3%

Test Site:

DDT 3# Chamber

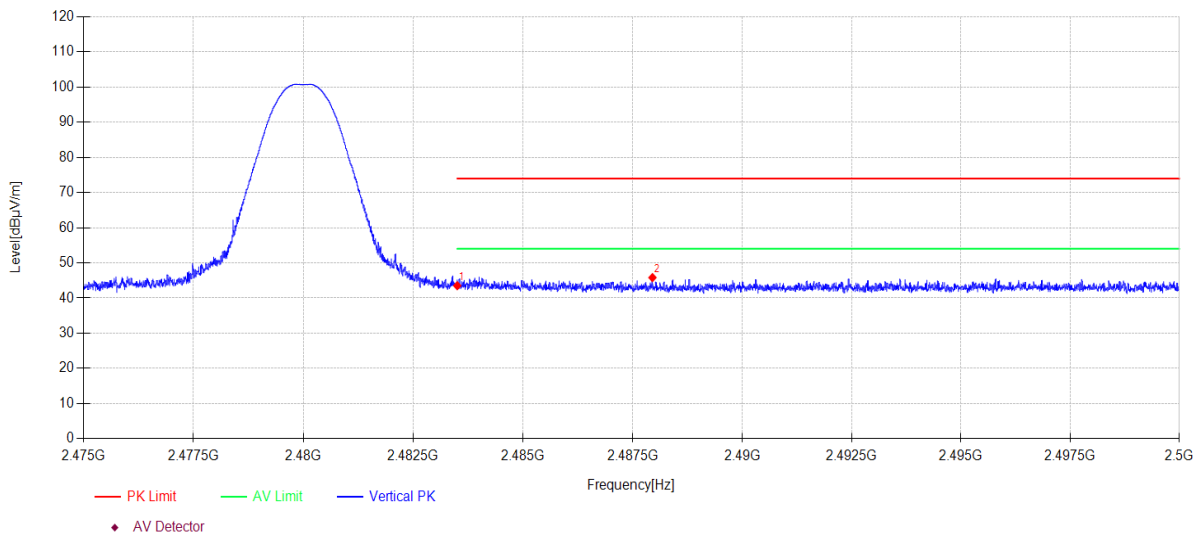
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d:\ts\2024 report data\Q24031401-1E\FCC ABOVE 1G\30

Memo:

Right side Sample Number:S24031401-002 Power Setting:5

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	2483.500	12.05	27.53	3.94	0.00	43.52	74.00	30.48	PK	Vertical
2	2487.950	14.33	27.55	3.94	0.00	45.82	74.00	28.18	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:

2024-05-06

Tested By:

Genliu

EUT:

JLAB True Wireless Earbuds

Model Number:

JBuds Sport ANC 4

Test Mode:

2DH5 TX 2480MHz

Power Supply:

Battery

Condition:

Temp:22.5°C;Humi:56.3%

Test Site:

DDT 3# Chamber

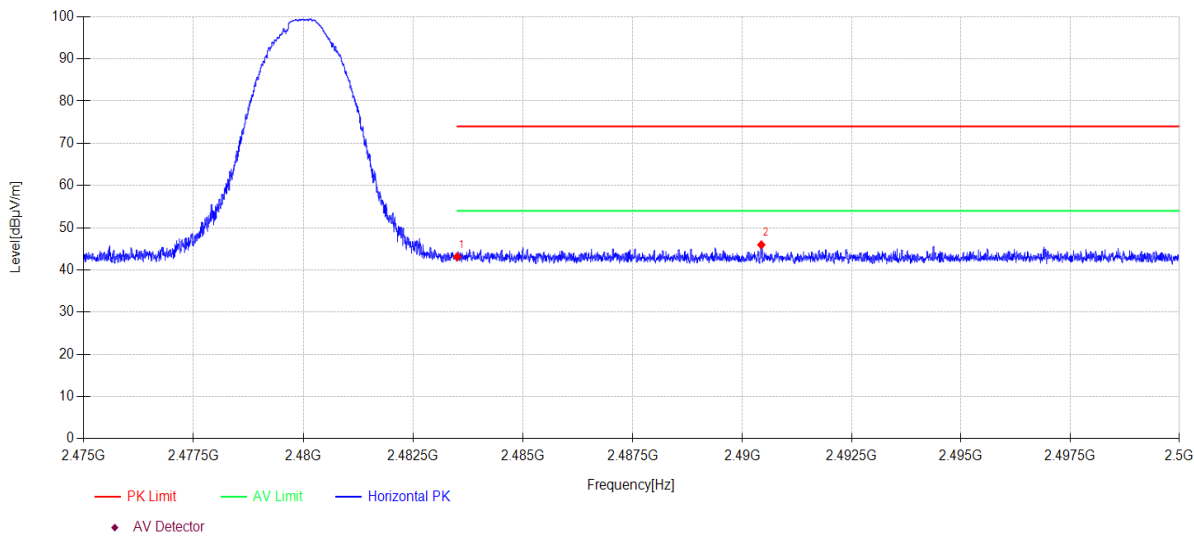
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d:\ts\2024 report data\Q24031401-1E\FCC ABOVE 1G\31

Memo:

Right side Sample Number:S24031401-002 Power Setting:5

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	2483.500	11.65	27.53	3.94	0.00	43.12	74.00	30.88	PK	Horizontal
2	2490.435	14.46	27.56	3.94	0.00	45.96	74.00	28.04	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:

2024-05-06

Tested By:

Genliu

EUT:

JLAB True Wireless Earbuds

Model Number:

JBuds Sport ANC 4

Test Mode:

2DH5 TX 2480MHz

Power Supply:

Battery

Condition:

Temp:22.5°C;Humi:56.3%

Test Site:

DDT 3# Chamber

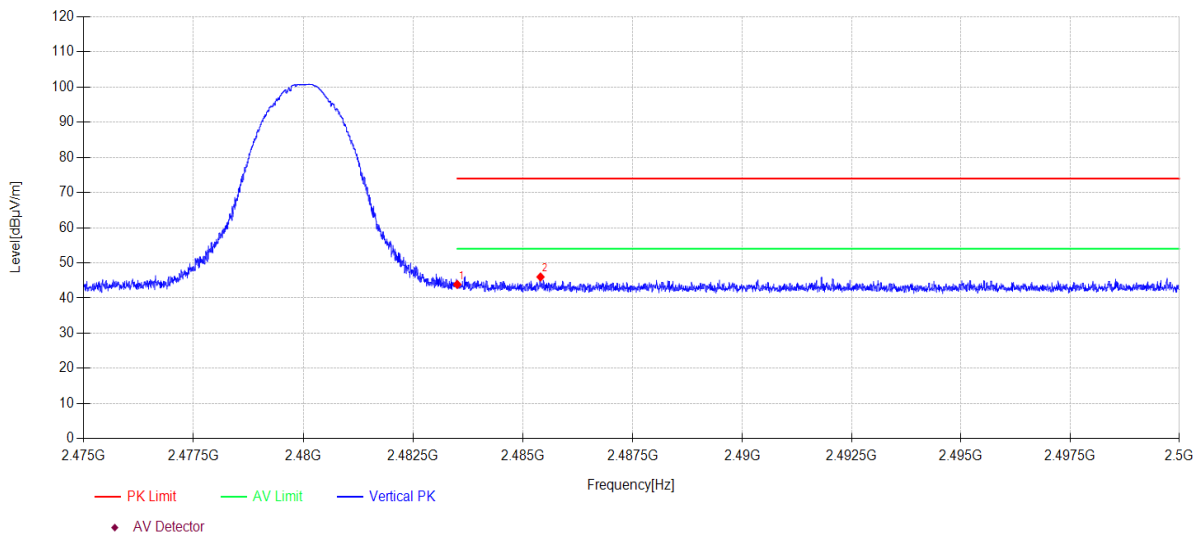
File Path:

d:\ts\2024 report data\Q24031401-1E\FCC ABOVE 1G\32

Memo:

Right side Sample Number:S24031401-002 Power Setting:5

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	2483.500	12.40	27.53	3.94	0.00	43.87	74.00	30.13	PK	Vertical
2	2485.398	14.53	27.54	3.94	0.00	46.01	74.00	27.99	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:

2024-05-06

Tested By:

Genliu

EUT:

JLAB True Wireless Earbuds

Model Number:

JBuds Sport ANC 4

Test Mode:

3DH5 TX 2480MHz

Power Supply:

Battery

Condition:

Temp:22.5°C;Humi:56.3%

Test Site:

DDT 3# Chamber

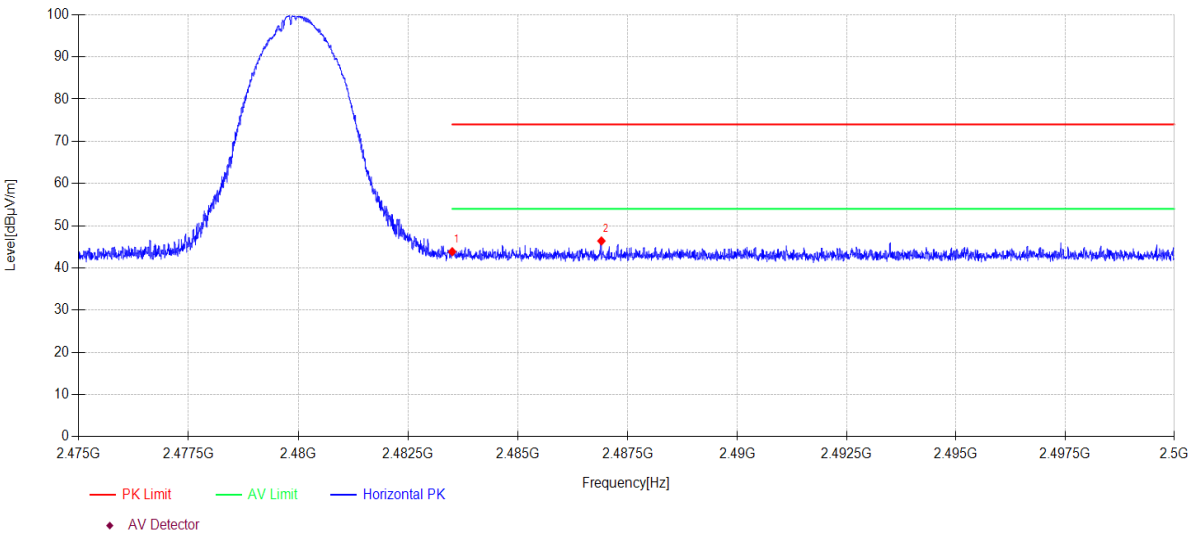
File Path:

d:\ts\2024 report data\Q24031401-1E\FCC ABOVE 1G\33

Memo:

Right side Sample Number:S24031401-002 Power Setting:5

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	2483.500	12.38	27.53	3.94	0.00	43.85	74.00	30.15	PK	Horizontal
2	2486.900	14.90	27.55	3.94	0.00	46.39	74.00	27.61	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:

2024-05-06

Tested By:

Genliu

EUT:

JLAB True Wireless Earbuds

Model Number:

JBuds Sport ANC 4

Test Mode:

3DH5 TX 2480MHz

Power Supply:

Battery

Condition:

Temp:22.5°C;Humi:56.3%

Test Site:

DDT 3# Chamber

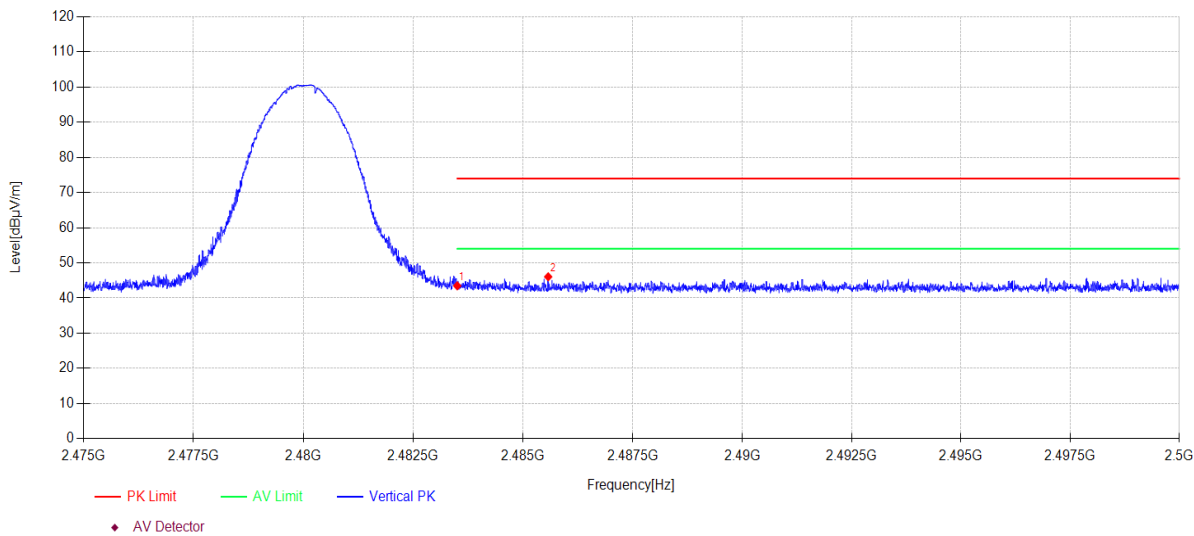
File Path:

d:\ts\2024 report data\Q24031401-1E\FCC ABOVE 1G\34

Memo:

Right side Sample Number:S24031401-002 Power Setting:5

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	2483.500	12.02	27.53	3.94	0.00	43.49	74.00	30.51	PK	Vertical
2	2485.573	14.57	27.54	3.94	0.00	46.05	74.00	27.95	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:

2024-05-07

Tested By:

Genliu

EUT:

JLAB True Wireless Earbuds

Model Number:

JBuds Sport ANC 4

Test Mode:

DH5 TX 2402MHz

Power Supply:

Battery

Condition:

Temp:22.5°C;Humi:56.3%

Test Site:

DDT 3# Chamber

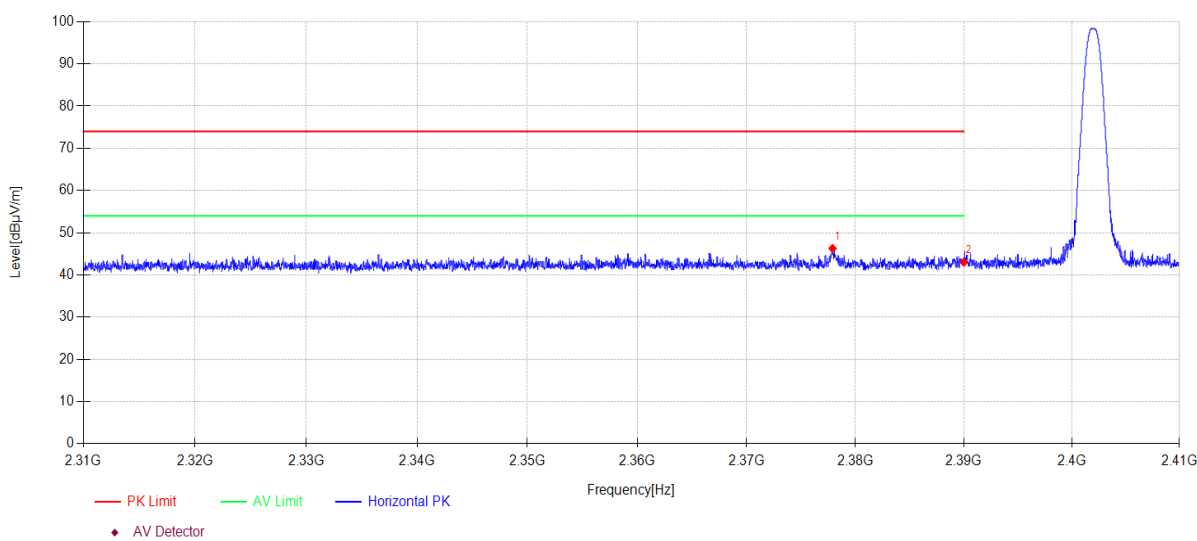
File Path:

d:\ts\2024 report data\Q24031401-1E\FCC ABOVE 1G\57

Memo:

Left side Sample Number:S24031401-002 Power Setting:5

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	2377.900	15.19	27.21	3.86	0.00	46.26	74.00	27.74	PK	Horizontal
2	2390.000	11.87	27.26	3.87	0.00	43.00	74.00	31.00	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:

2024-05-07

Tested By:

Genliu

EUT:

JLAB True Wireless Earbuds

Model Number:

JBuds Sport ANC 4

Test Mode:

DH5 TX 2402MHz

Power Supply:

Battery

Condition:

Temp:22.5°C;Humi:56.3%

Test Site:

DDT 3# Chamber

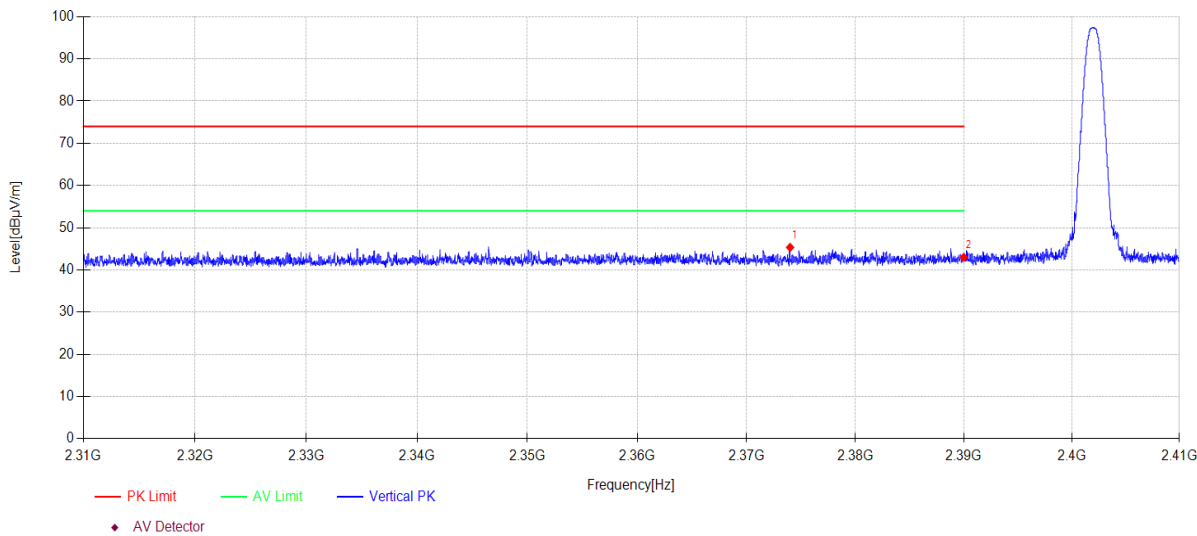
File Path:

d:\ts\2024 report data\Q24031401-1E\FCC ABOVE 1G\58

Memo:

Left side Sample Number:S24031401-002 Power Setting:5

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	2374.000	14.29	27.20	3.85	0.00	45.34	74.00	28.66	PK	Vertical
2	2390.000	11.85	27.26	3.87	0.00	42.98	74.00	31.02	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:

2024-05-07

Tested By:

Genliu

EUT:

JLAB True Wireless Earbuds

Model Number:

JBuds Sport ANC 4

Test Mode:

2DH5 TX 2402MHz

Power Supply:

Battery

Condition:

Temp:22.5°C;Humi:56.3%

Test Site:

DDT 3# Chamber

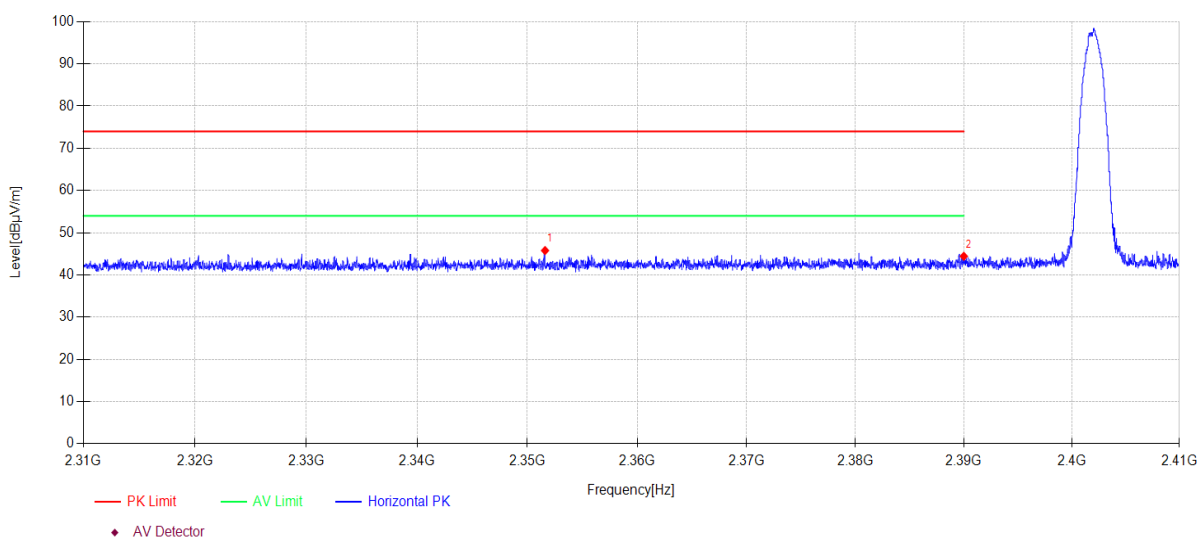
File Path:

d:\ts\2024 report data\Q24031401-1E\FCC ABOVE 1G\59

Memo:

Left side Sample Number:S24031401-002 Power Setting:5

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	2351.610	14.83	27.11	3.84	0.00	45.78	74.00	28.22	PK	Horizontal
2	2390.000	13.29	27.26	3.87	0.00	44.42	74.00	29.58	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:2024-05-07

Tested By:Genliu

EUT:JLAB True Wireless Earbuds

Model Number:JBuds Sport ANC 4

Test Mode:2DH5 TX 2402MHz

Power Supply:Battery

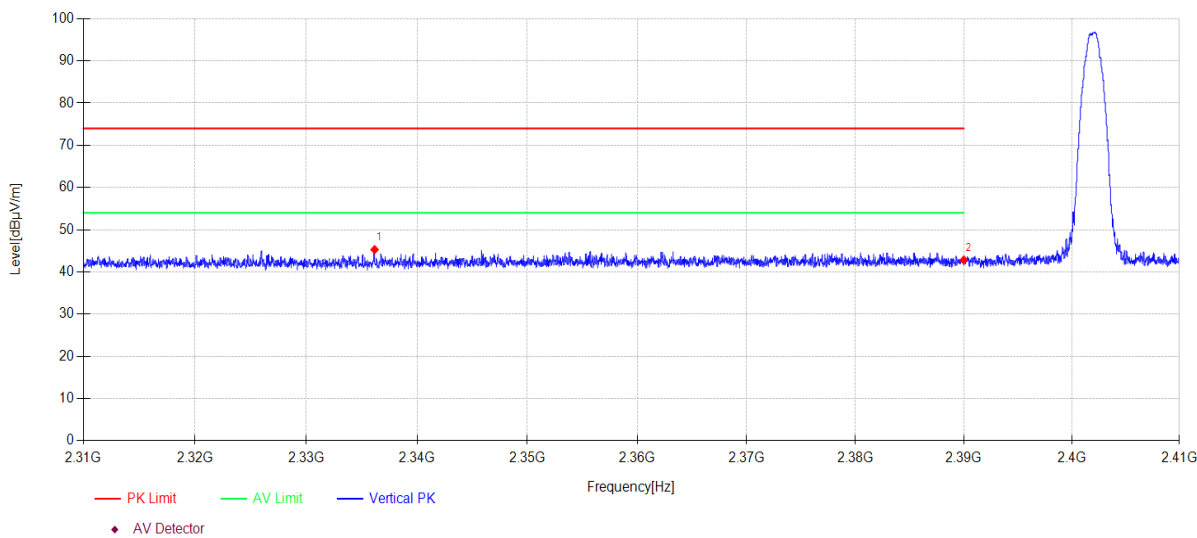
Condition:Temp:22.5°C;Humi:56.3%

Test Site:DDT 3# Chamber

File Path:d:\ts\2024 report data\Q24031401-1E\FCC ABOVE 1G\60

Memo:Left side Sample Number:S24031401-002 Power Setting:5

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	2336.160	14.44	27.02	3.83	0.00	45.29	74.00	28.71	PK	Vertical
2	2390.000	11.69	27.26	3.87	0.00	42.82	74.00	31.18	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:

2024-05-07

Tested By:

Genliu

EUT:

JLAB True Wireless Earbuds

Model Number:

JBuds Sport ANC 4

Test Mode:

3DH5 TX 2402MHz

Power Supply:

Battery

Condition:

Temp:22.5°C;Humi:56.3%

Test Site:

DDT 3# Chamber

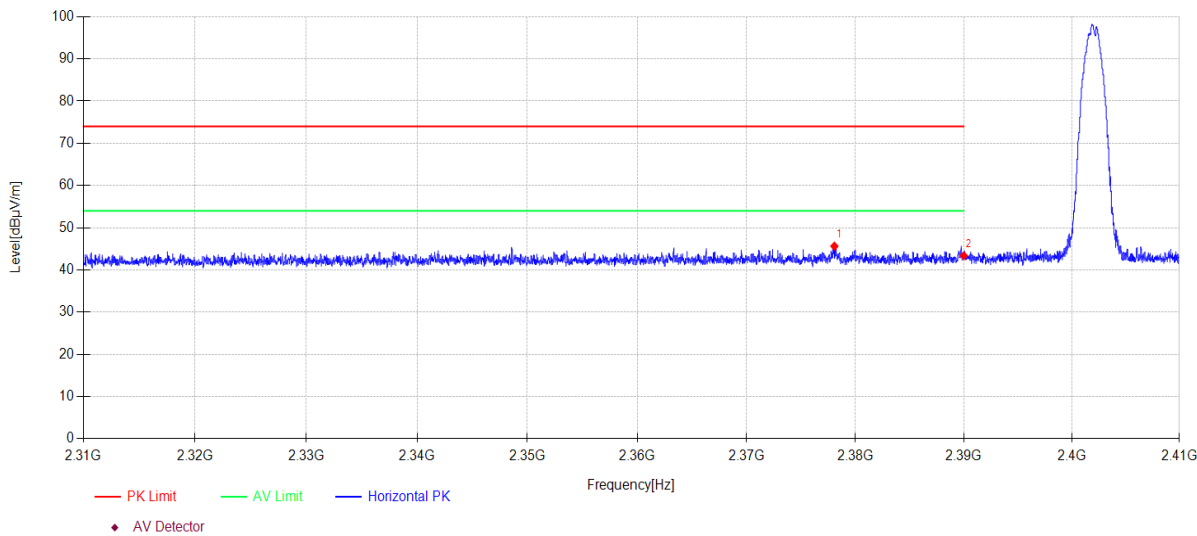
File Path:

d:\ts\2024 report data\Q24031401-1E\FCC ABOVE 1G\61

Memo:

Left side Sample Number:S24031401-002 Power Setting:5

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	2378.070	14.56	27.21	3.86	0.00	45.63	74.00	28.37	PK	Horizontal
2	2390.000	12.24	27.26	3.87	0.00	43.37	74.00	30.63	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:

2024-05-07

Tested By:

Genliu

EUT:

JLAB True Wireless Earbuds

Model Number:

JBuds Sport ANC 4

Test Mode:

3DH5 TX 2402MHz

Power Supply:

Battery

Condition:

Temp:22.5°C;Humi:56.3%

Test Site:

DDT 3# Chamber

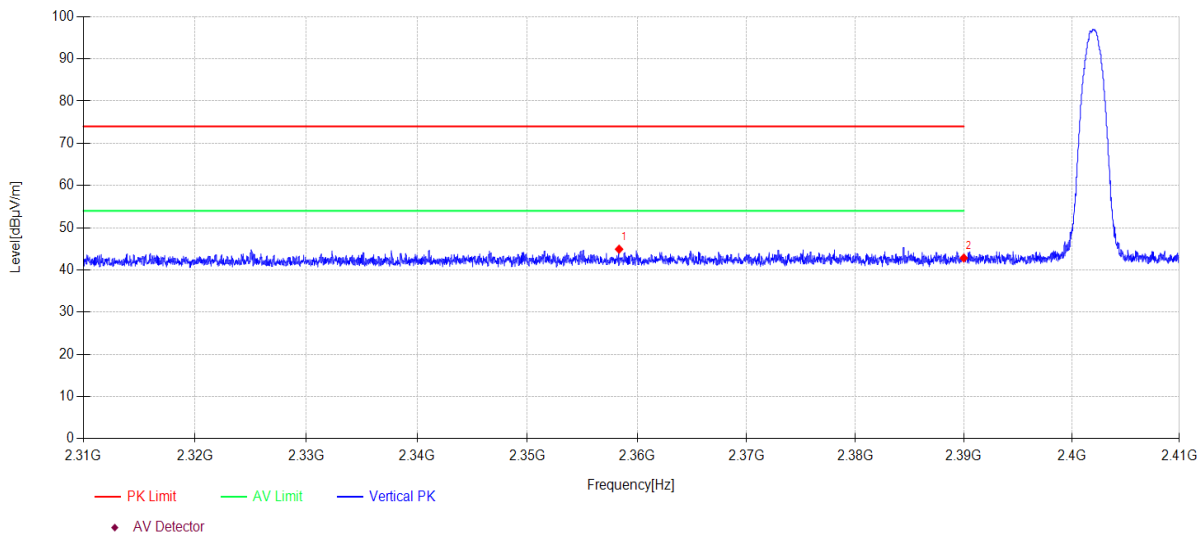
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Memo:

Left side Sample Number:S24031401-002 Power Setting:5

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	2358.350	13.94	27.13	3.84	0.00	44.91	74.00	29.09	PK	Vertical
2	2390.000	11.68	27.26	3.87	0.00	42.81	74.00	31.19	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:

2024-05-07

Tested By:

Genliu

EUT:

JLAB True Wireless Earbuds

Model Number:

JBuds Sport ANC 4

Test Mode:

DH5 TX 2480MHz

Power Supply:

Battery

Condition:

Temp:22.5°C;Humi:56.3%

Test Site:

DDT 3# Chamber

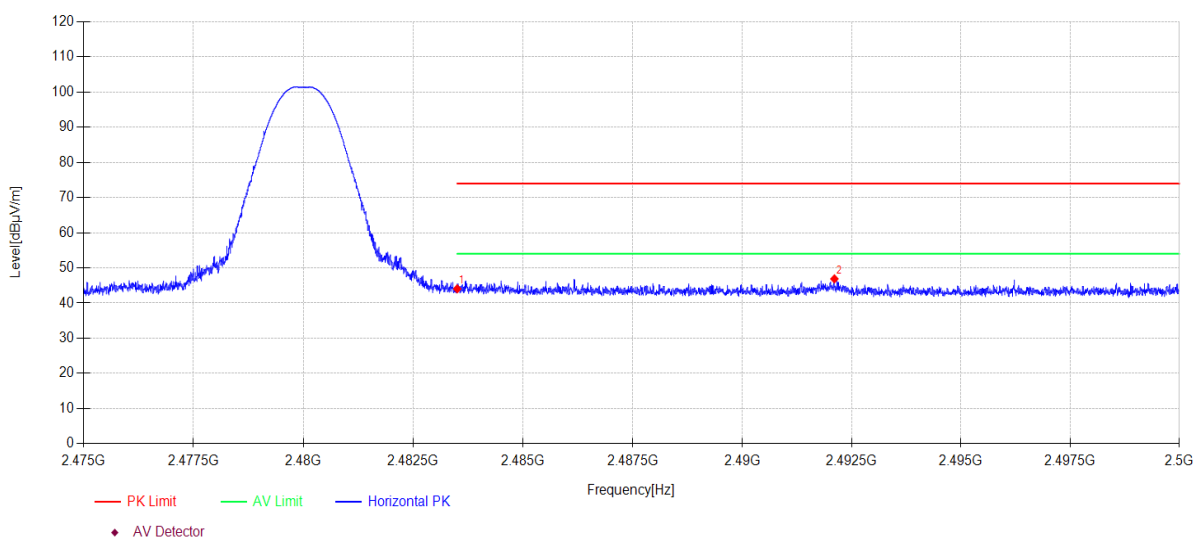
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Memo:

Left side Sample Number:S24031401-002 Power Setting:5

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	2483.500	12.58	27.53	3.94	0.00	44.05	74.00	29.95	PK	Horizontal
2	2492.105	15.38	27.57	3.94	0.00	46.89	74.00	27.11	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:

2024-05-07

Tested By:

Genliu

EUT:

JLAB True Wireless Earbuds

Model Number:

JBuds Sport ANC 4

Test Mode:

DH5 TX 2480MHz

Power Supply:

Battery

Condition:

Temp:22.5°C;Humi:56.3%

Test Site:

DDT 3# Chamber

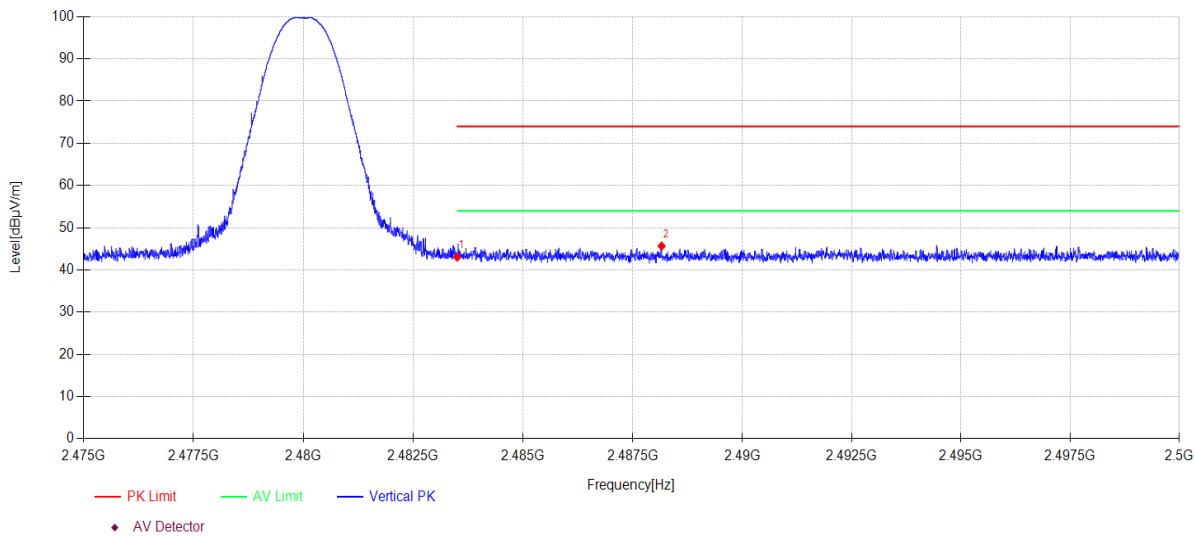
File Path:

d:\ts\2024 report data\Q24031401-1E\FCC ABOVE 1G\68

Memo:

Left side Sample Number:S24031401-002 Power Setting:5

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	2483.500	11.55	27.53	3.94	0.00	43.02	74.00	30.98	PK	Vertical
2	2488.160	14.17	27.55	3.94	0.00	45.66	74.00	28.34	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:

2024-05-07

Tested By:

Genliu

EUT:

JLAB True Wireless Earbuds

Model Number:

JBuds Sport ANC 4

Test Mode:

2DH5 TX 2480MHz

Power Supply:

Battery

Condition:

Temp:22.5°C;Humi:56.3%

Test Site:

DDT 3# Chamber

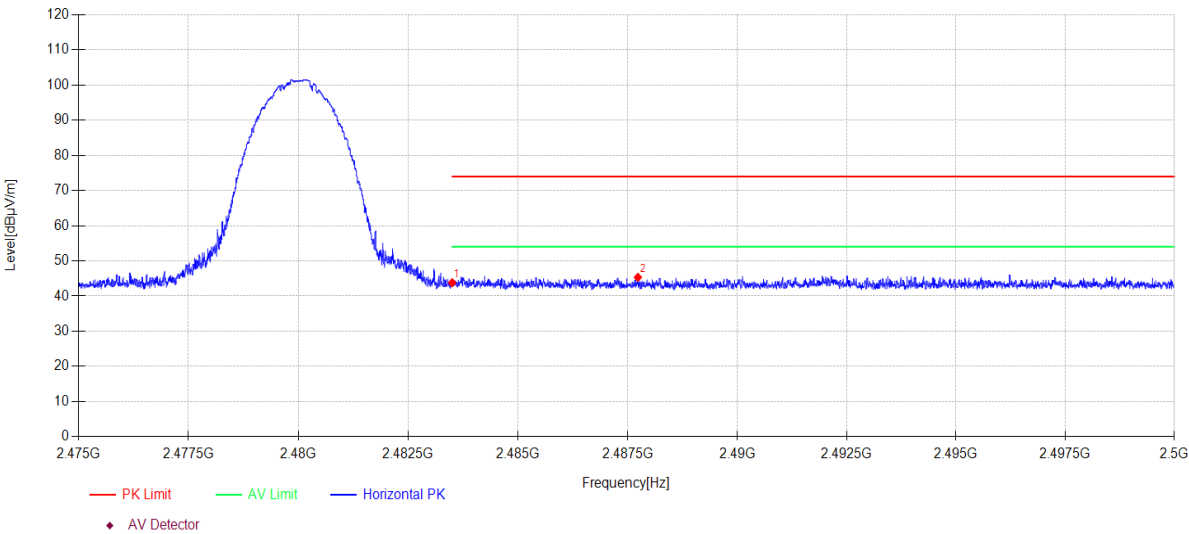
File Path:

d:\ts\2024 report data\Q24031401-1E\FCC ABOVE 1G\69

Memo:

Left side Sample Number:S24031401-002 Power Setting:5

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	2483.500	12.32	27.53	3.94	0.00	43.79	74.00	30.21	PK	Horizontal
2	2487.733	13.85	27.55	3.94	0.00	45.34	74.00	28.66	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:

2024-05-07

Tested By:

Genliu

EUT:

JLAB True Wireless Earbuds

Model Number:

JBuds Sport ANC 4

Test Mode:

2DH5 TX 2480MHz

Power Supply:

Battery

Condition:

Temp:22.5°C;Humi:56.3%

Test Site:

DDT 3# Chamber

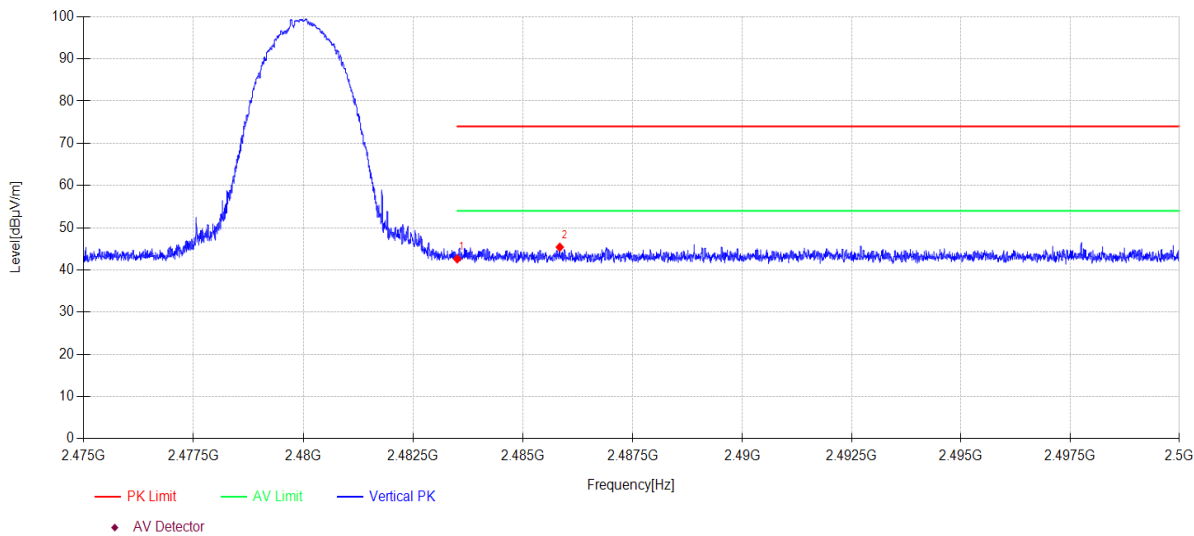
File Path:

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Memo:

Left side Sample Number:S24031401-002 Power Setting:5

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	2483.500	11.14	27.53	3.94	0.00	42.61	74.00	31.39	PK	Vertical
2	2485.838	13.92	27.54	3.94	0.00	45.40	74.00	28.60	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:

2024-05-07

Tested By:

Genliu

EUT:

JLAB True Wireless Earbuds

Model Number:

JBuds Sport ANC 4

Test Mode:

3DH5 TX 2480MHz

Power Supply:

Battery

Condition:

Temp:22.5°C;Humi:56.3%

Test Site:

DDT 3# Chamber

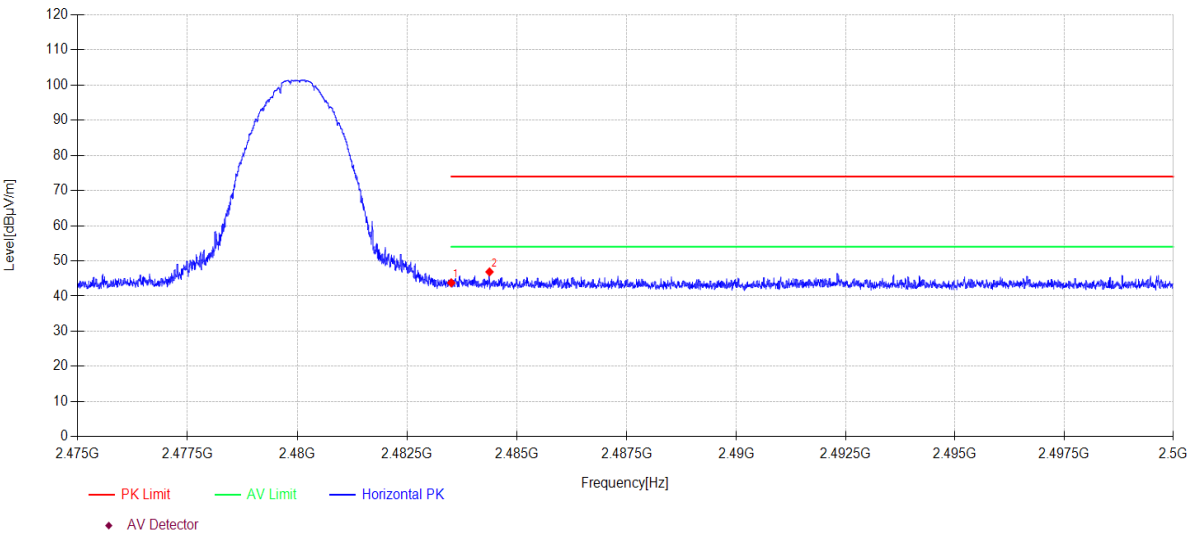
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d:\ts\2024 report data\Q24031401-1E\FCC ABOVE 1G\71

Memo:

Left side Sample Number:S24031401-002 Power Setting:5

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	2483.500	12.31	27.53	3.94	0.00	43.78	74.00	30.22	PK	Horizontal
2	2484.373	15.39	27.54	3.94	0.00	46.87	74.00	27.13	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:

2024-05-07

Tested By:

Genliu

EUT:

JLAB True Wireless Earbuds

Model Number:

JBuds Sport ANC 4

Test Mode:

3DH5 TX 2480MHz

Power Supply:

Battery

Condition:

Temp:22.5°C;Humi:56.3%

Test Site:

DDT 3# Chamber

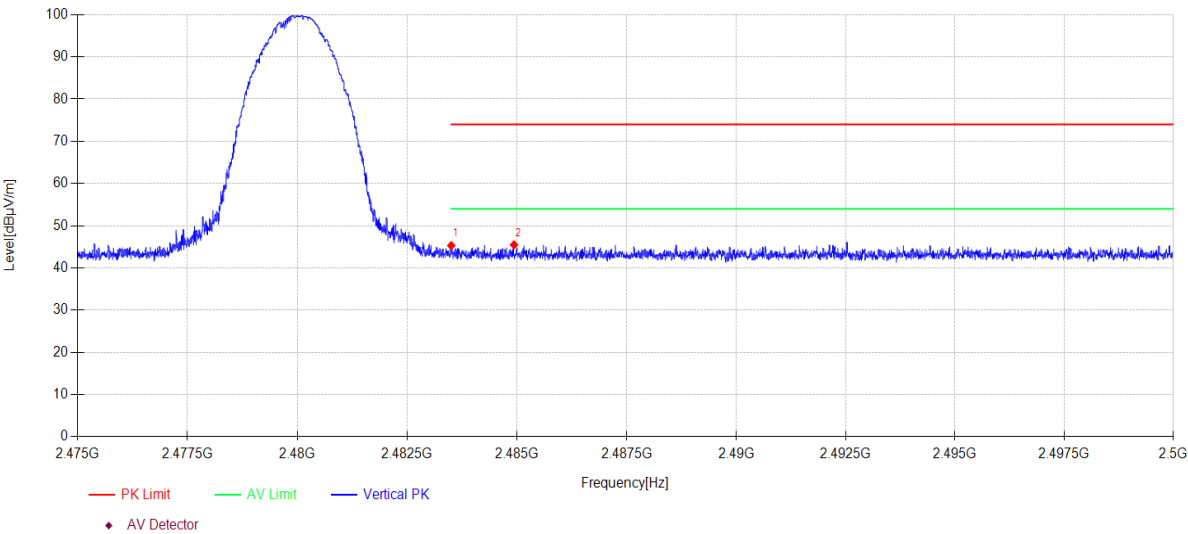
File Path:

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Memo:

Left side Sample Number:S24031401-002 Power Setting:5

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	2483.500	13.83	27.53	3.94	0.00	45.30	74.00	28.70	PK	Vertical
2	2484.930	14.00	27.54	3.94	0.00	45.48	74.00	28.52	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.

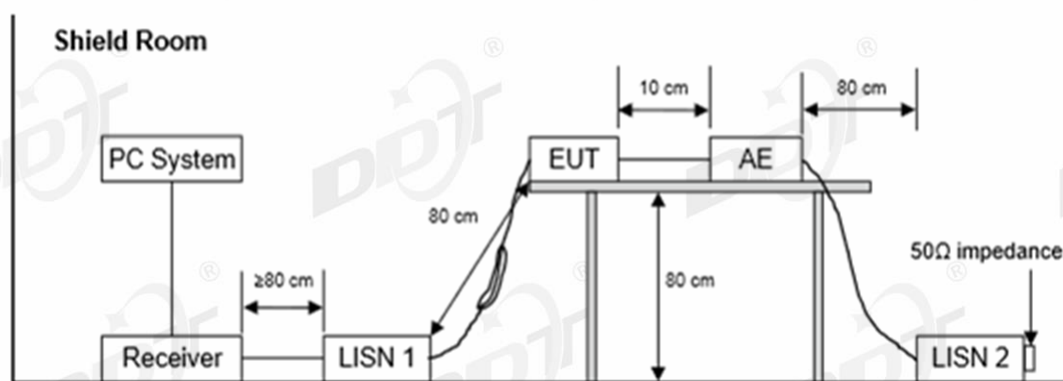
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

16. Power Line Conducted Emissions

16.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
Copper shaft signal cable	H&S	RG214-5	DDT-ZC01817	2025/04/01
Two Line V-Network	R&S	ENV216	DDT-ZC00586	2024/07/11
Two Line V-Network	R&S	ENV216	DDT-ZC01247	2024/07/11
EMI Test Receiver	R&S	ESCI	DDT-ZC01972	2025/04/01
Conducted Radiated Software	Audix	E3	DDT-ZC00562	/
Pulse Limiter	R&S	KH43101	DDT-ZC00747	2025/04/23

16.2. Block diagram of test setup



16.3. Limits

Frequency	Quasi-Peak Level dB(mV)	Average Level dB(mV)
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.

16.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
Adapter	SAMSUNG	EP-TA200	Input: 100-240~, 50/60Hz, 0.5A; Output: 9V/1.67A or 5V/2A	N/A

16.5. Test procedure

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

16.6. 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 the worst case.

16.7. Test data

TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 5# Shield Room

D:\2024 report data\Q24031401-1E\FCC CE.EM6

Test Date : 2024-05-07

Tested By : Junchang Du

EUT : JLAB True Wireless Earbuds

Model Number : JBuds Sport ANC 4

Power Supply : AC 120V/60Hz

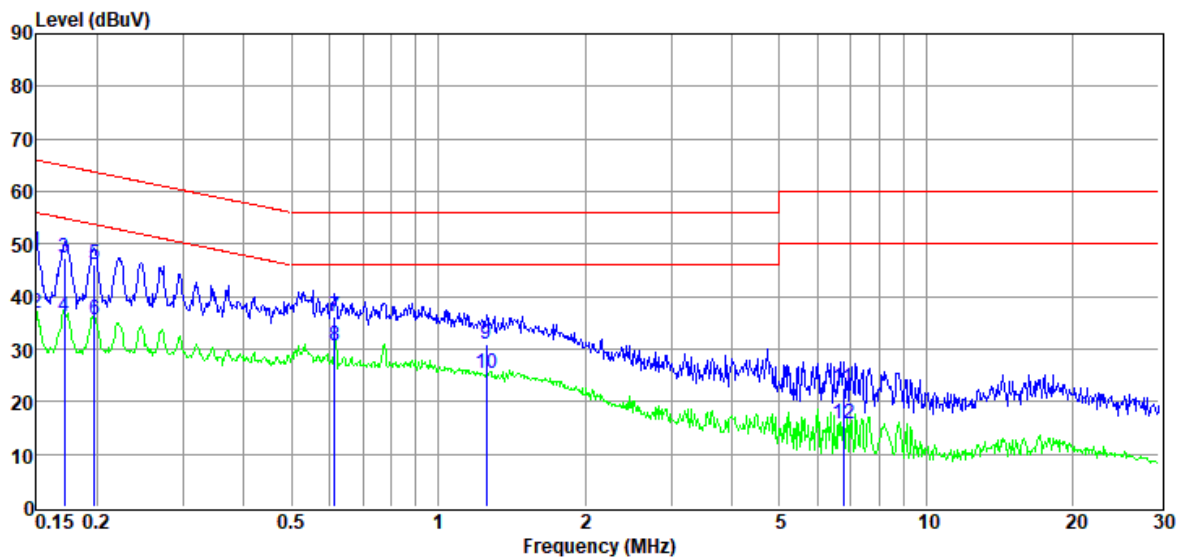
Test Mode : BT Mode

Condition : Temp:24.5°C,Humi:55.5%

LISN : 2023 ENV216 2#/NEUTRAL

Memo : Sample Number:S24031401-001

Data: 2



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Pulse Limiter Factor (dB)	Result Level (dBuV)	Limit Line (dBuV)	Over Limit (dB)	Detector	Phase
1	0.15	28.14	9.92	0.19	10.15	48.40	66.00	-17.60	QP	NEUTRAL
2	0.15	16.45	9.92	0.19	10.15	36.71	56.00	-19.29	Average	NEUTRAL
3	0.17	27.11	9.97	0.19	10.15	47.42	64.90	-17.48	QP	NEUTRAL
4	0.17	15.82	9.97	0.19	10.15	36.13	54.90	-18.77	Average	NEUTRAL
5	0.20	25.83	9.92	0.19	10.15	46.09	63.71	-17.62	QP	NEUTRAL
6	0.20	15.24	9.92	0.19	10.15	35.50	53.71	-18.21	Average	NEUTRAL
7	0.61	15.83	10.01	0.26	10.00	36.10	56.00	-19.90	QP	NEUTRAL
8	0.61	10.26	10.01	0.26	10.00	30.53	46.00	-15.47	Average	NEUTRAL
9	1.26	10.73	9.98	0.34	9.83	30.88	56.00	-25.12	QP	NEUTRAL
10	1.26	5.31	9.98	0.34	9.83	25.46	46.00	-20.54	Average	NEUTRAL
11	6.77	2.17	10.02	0.37	10.06	22.62	60.00	-37.38	QP	NEUTRAL
12	6.77	-4.53	10.02	0.37	10.06	15.92	50.00	-34.08	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

D:\2024 report data\Q24031401-1E\FCC CE.EM6

Test Date : 2024-05-07

Tested By : Junchang Du

EUT : JLAB True Wireless Earbuds

Model Number : JBuds Sport ANC 4

Power Supply : AC 120V/60Hz

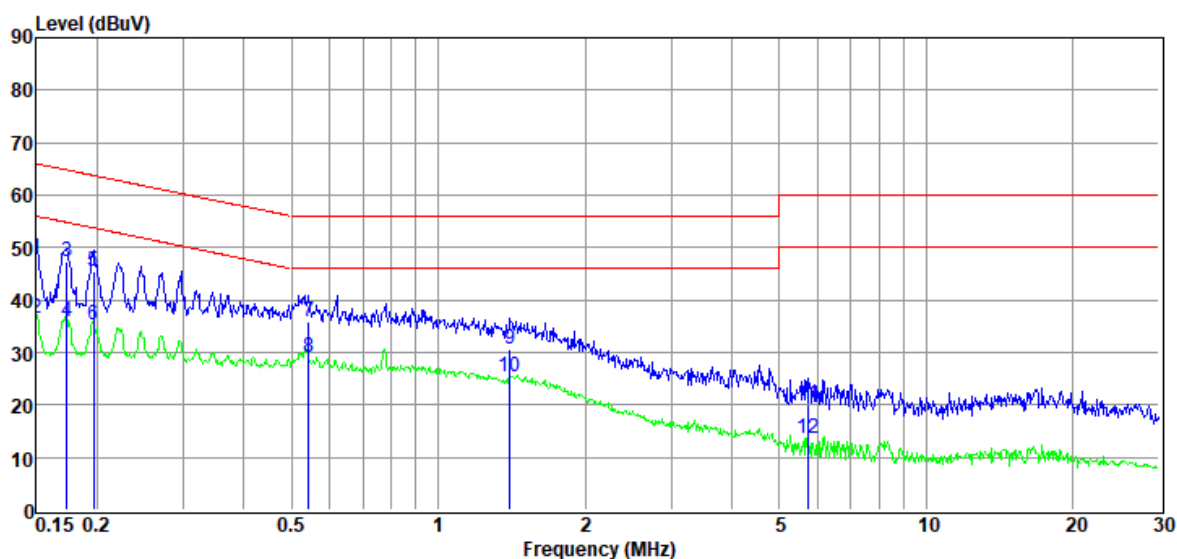
Test Mode : BT Mode

Condition : Temp:24.5°C,Humi:55.5%

LISN : 2023 ENV216 2#/LINE

Memo : Sample Number:S24031401-001

Data: 4



Item	Freq.	Read Level	LISN Factor	Cable Loss	Pulse Limiter Factor	Result Level	Limit Line	Over Limit	Detector	Phase
(Mark)	(MHz)	(dBμV)	(dB)	(dB)	(dB)	(dBμV)	(dBμV)	(dB)		
1	0.15	27.73	9.92	0.19	10.15	47.99	66.00	-18.01	QP	LINE
2	0.15	16.30	9.92	0.19	10.15	36.56	56.00	-19.44	Average	LINE
3	0.17	27.00	9.96	0.19	10.15	47.30	64.81	-17.51	QP	LINE
4	0.17	15.66	9.96	0.19	10.15	35.96	54.81	-18.85	Average	LINE
5	0.20	25.29	9.93	0.19	10.15	45.56	63.76	-18.20	QP	LINE
6	0.20	14.84	9.93	0.19	10.15	35.11	53.76	-18.65	Average	LINE
7	0.54	15.54	9.96	0.25	10.03	35.78	56.00	-20.22	QP	LINE
8	0.54	8.81	9.96	0.25	10.03	29.05	46.00	-16.95	Average	LINE
9	1.40	10.48	9.99	0.35	9.81	30.63	56.00	-25.37	QP	LINE
10	1.40	5.24	9.99	0.35	9.81	25.39	46.00	-20.61	Average	LINE
11	5.74	-0.08	9.89	0.37	10.02	20.20	60.00	-39.80	QP	LINE
12	5.74	-6.81	9.89	0.37	10.02	13.47	50.00	-36.53	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.

18. Photos of the EUT

Please refer to DDT-Q24031401-2E appendix I

-----End Report-----