

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-05-14

Tested By:

Genliu

EUT:

BLUETOOTH HEADSET

Model Number:

WAVE BEAM 2

Test Mode:

BLE 2M TX 2404MHz

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:62.3%

Test Site:

DDT 3# Chamber

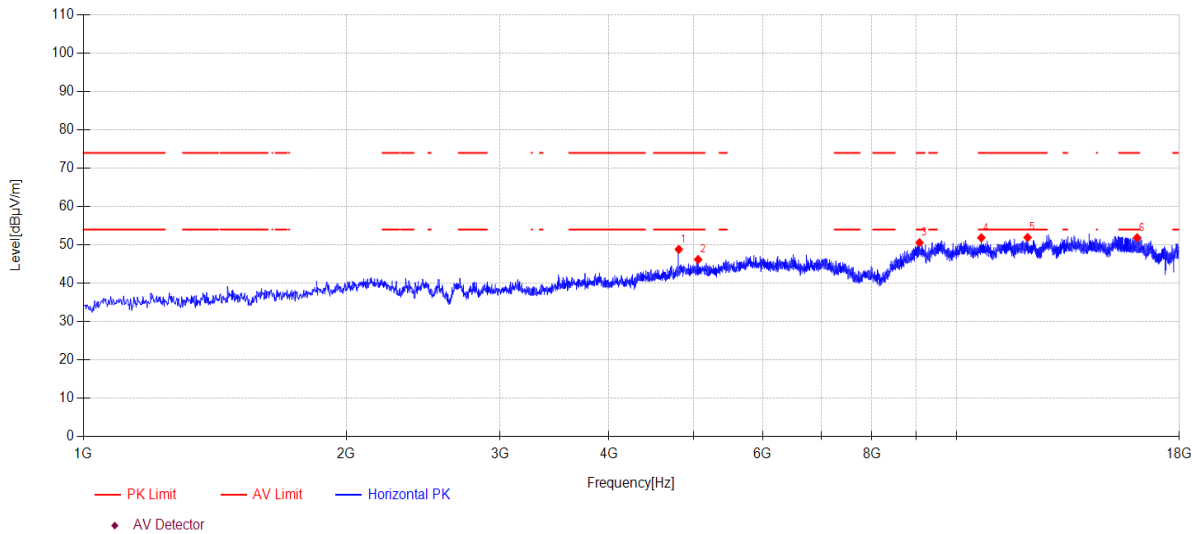
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Memo:

Left side Sample Number: S24020411-002

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	4808.000	48.80	32.71	7.48	-40.15	48.84	74.00	25.16	PK	Horizontal
2	5059.600	45.00	33.32	7.95	-40.07	46.20	74.00	27.80	PK	Horizontal
3	9073.300	42.17	38.45	8.75	-38.78	50.59	74.00	23.41	PK	Horizontal
4	10678.100	42.06	39.36	9.42	-38.97	51.87	74.00	22.13	PK	Horizontal
5	12065.300	41.71	39.27	10.54	-39.59	51.93	74.00	22.07	PK	Horizontal
6	16104.500	37.96	37.90	15.47	-39.44	51.89	74.00	22.11	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:

2024-05-14

Tested By:

Genliu

EUT:

BLUETOOTH HEADSET

Model Number:

WAVE BEAM 2

Test Mode:

BLE 2M TX 2404MHz

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:62.3%

Test Site:

DDT 3# Chamber

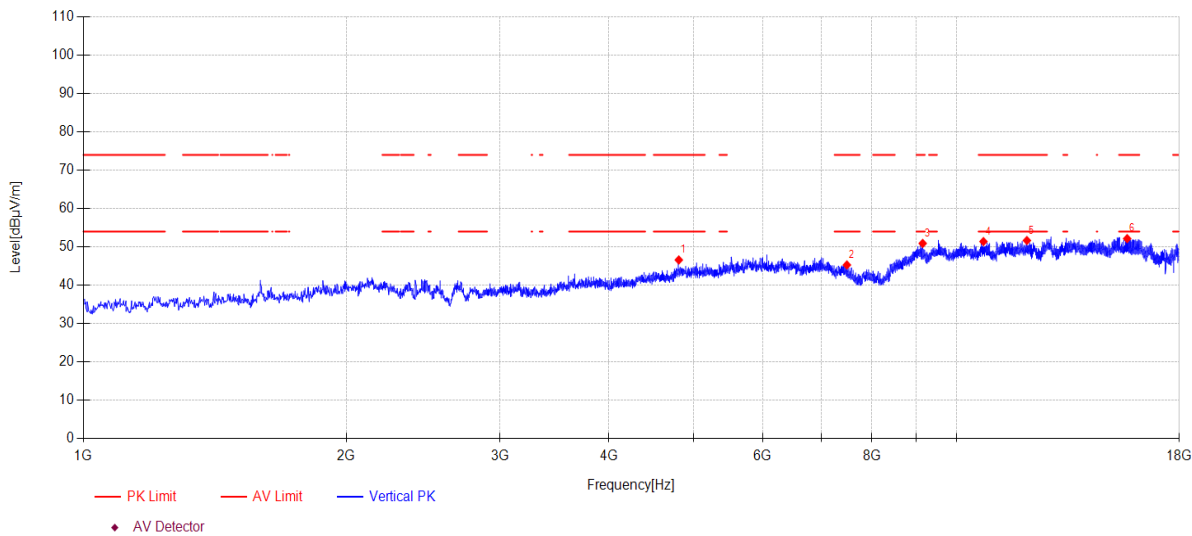
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Memo:

Left side Sample Number: S24020411-002

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	4808.000	46.56	32.71	7.48	-40.15	46.60	74.00	27.40	PK	Vertical
2	7490.600	43.07	36.52	7.64	-41.93	45.30	74.00	28.70	PK	Vertical
3	9148.100	42.43	38.50	8.76	-38.78	50.91	74.00	23.09	PK	Vertical
4	10737.600	41.54	39.40	9.46	-38.99	51.41	74.00	22.59	PK	Vertical
5	12041.500	41.47	39.24	10.54	-39.58	51.67	74.00	22.33	PK	Vertical
6	15686.300	38.36	38.51	14.46	-39.17	52.16	74.00	21.84	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:

2024-05-14

Tested By:

Genliu

EUT:

BLUETOOTH HEADSET

Model Number:

WAVE BEAM 2

Test Mode:

BLE 2M TX 2440MHz

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:62.3%

Test Site:

DDT 3# Chamber

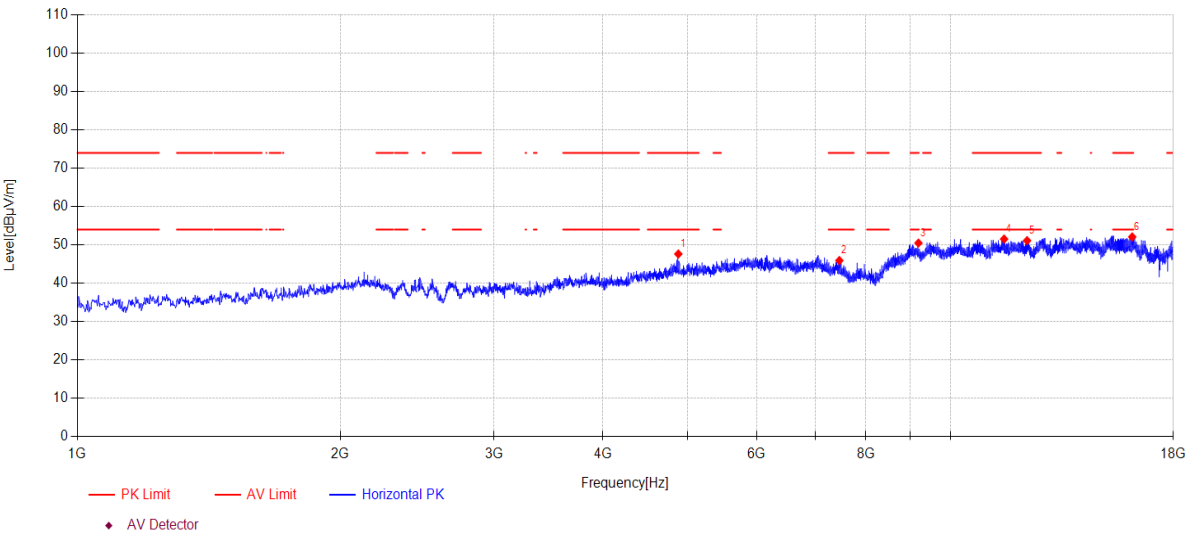
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Memo:

Left side Sample Number: S24020411-002

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	4879.400	46.79	33.33	7.63	-40.12	47.63	74.00	26.37	PK	Horizontal
2	7460.000	43.56	36.58	7.64	-41.85	45.93	74.00	28.07	PK	Horizontal
3	9190.600	41.92	38.58	8.77	-38.78	50.49	74.00	23.51	PK	Horizontal
4	11519.600	41.59	39.16	10.11	-39.33	51.53	74.00	22.47	PK	Horizontal
5	12238.700	40.92	39.30	10.54	-39.65	51.11	74.00	22.89	PK	Horizontal
6	16150.400	38.43	37.85	15.29	-39.48	52.09	74.00	21.91	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:

2024-05-14

Tested By:

Genliu

EUT:

BLUETOOTH HEADSET

Model Number:

WAVE BEAM 2

Test Mode:

BLE 2M TX 2440MHz

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:62.3%

Test Site:

DDT 3# Chamber

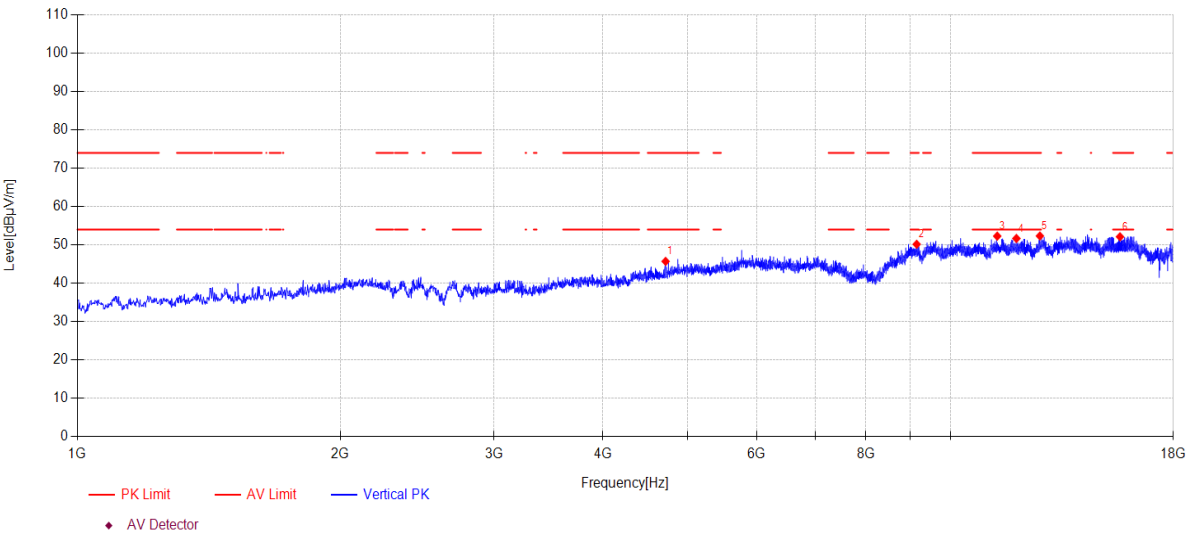
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Memo:

Left side Sample Number: S24020411-002

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	4717.900	46.35	32.24	7.30	-40.18	45.71	74.00	28.29	PK	Vertical
2	9148.100	41.69	38.50	8.76	-38.78	50.17	74.00	23.83	PK	Vertical
3	11312.200	42.39	39.21	9.93	-39.24	52.29	74.00	21.71	PK	Vertical
4	11898.700	41.84	38.90	10.45	-39.51	51.68	74.00	22.32	PK	Vertical
5	12660.300	42.09	39.52	10.54	-39.82	52.33	74.00	21.67	PK	Vertical
6	15638.700	38.46	38.56	14.24	-39.14	52.12	74.00	21.88	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:

2024-05-14

Tested By:

Genliu

EUT:

BLUETOOTH HEADSET

Model Number:

WAVE BEAM 2

Test Mode:

BLE 2M TX 2478MHz

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:62.3%

Test Site:

DDT 3# Chamber

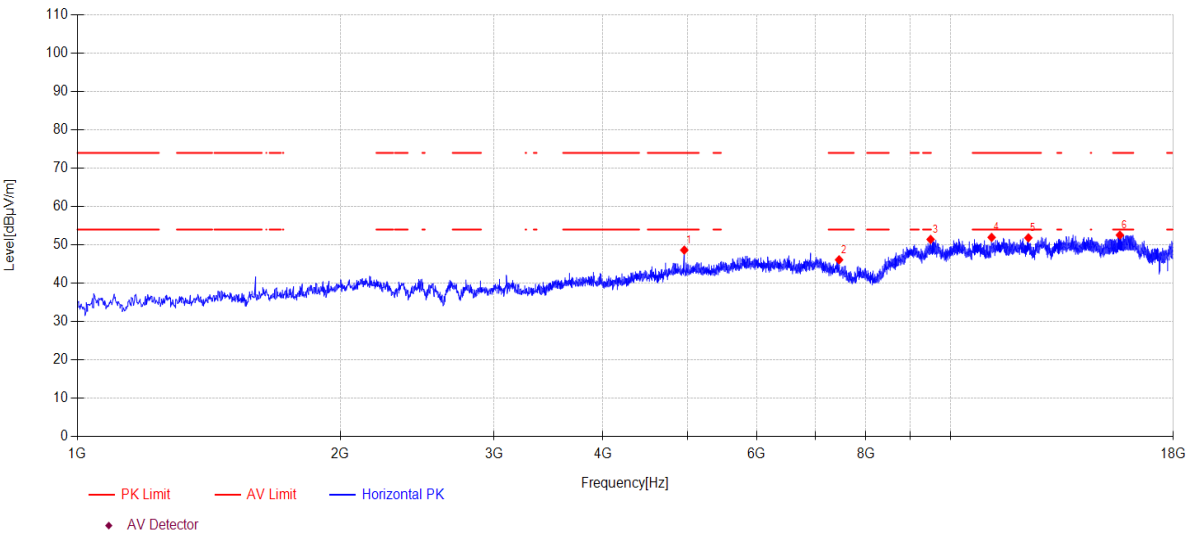
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Memo:

Left side Sample Number: S24020411-002

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	4955.900	47.86	33.11	7.78	-40.10	48.65	74.00	25.35	PK	Horizontal
2	7454.900	43.73	36.59	7.64	-41.84	46.12	74.00	27.88	PK	Horizontal
3	9489.800	42.66	38.70	8.83	-38.76	51.43	74.00	22.57	PK	Horizontal
4	11147.300	42.09	39.25	9.78	-39.16	51.96	74.00	22.04	PK	Horizontal
5	12281.200	41.68	39.30	10.54	-39.67	51.85	74.00	22.15	PK	Horizontal
6	15633.600	38.91	38.57	14.22	-39.14	52.56	74.00	21.44	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:

2024-05-14

Tested By:

Genliu

EUT:

BLUETOOTH HEADSET

Model Number:

WAVE BEAM 2

Test Mode:

BLE 2M TX 2478MHz

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:62.3%

Test Site:

DDT 3# Chamber

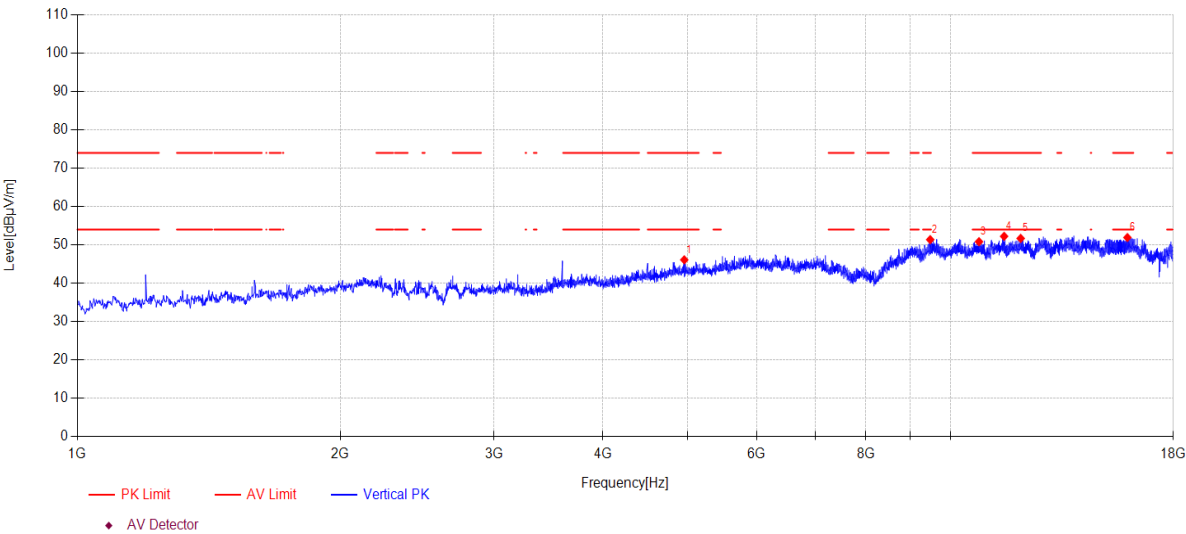
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Memo:

Left side Sample Number: S24020411-002

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	4955.900	45.32	33.11	7.78	-40.10	46.11	74.00	27.89	PK	Vertical
2	9479.600	42.60	38.70	8.83	-38.76	51.37	74.00	22.63	PK	Vertical
3	10781.800	40.95	39.40	9.50	-39.01	50.84	74.00	23.16	PK	Vertical
4	11519.600	42.30	39.16	10.11	-39.33	52.24	74.00	21.76	PK	Vertical
5	12034.700	41.50	39.23	10.54	-39.57	51.70	74.00	22.30	PK	Vertical
6	15946.400	37.57	38.05	15.64	-39.33	51.93	74.00	22.07	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:

2024-05-22

Tested By:

Genliu

EUT:

BLUETOOTH HEADSET

Model Number:

WAVE BEAM 2

Test Mode:

BLE 1M TX 2402MHz

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:62.3%

Test Site:

DDT 3# Chamber

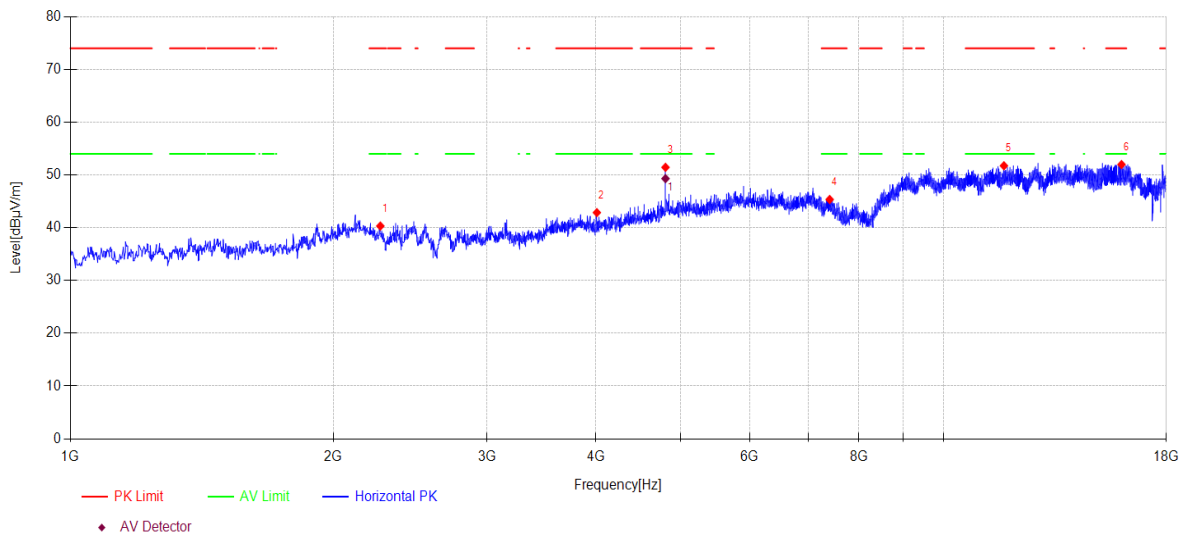
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Memo:

Right side Sample Number: S24020411-002

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	2264.800	44.98	27.15	5.95	-37.76	40.32	74.00	33.68	PK	Horizontal
2	4009.000	46.53	30.92	5.87	-40.45	42.87	74.00	31.13	PK	Horizontal
3	4804.600	51.50	32.62	7.48	-40.15	51.45	74.00	22.55	PK	Horizontal
4	7407.300	42.74	36.69	7.64	-41.72	45.35	74.00	28.65	PK	Horizontal
5	11728.700	41.90	38.97	10.30	-39.43	51.74	74.00	22.26	PK	Horizontal
6	15992.300	37.48	38.01	15.85	-39.36	51.98	74.00	22.02	PK	Horizontal

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	4804.060	49.36	32.62	7.48	-40.15	49.31	54.0	4.69	AV	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:

2024-05-22

Tested By:

Genliu

EUT:

BLUETOOTH HEADSET

Model Number:

WAVE BEAM 2

Test Mode:

BLE 1M TX 2402MHz

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:62.3%

Test Site:

DDT 3# Chamber

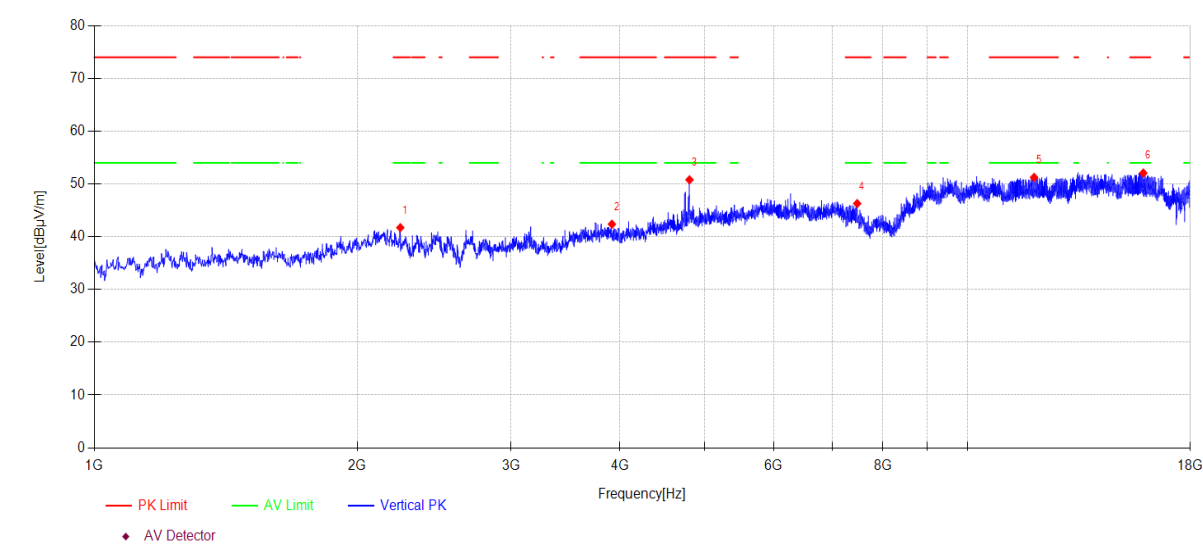
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Memo:

Right side Sample Number: S24020411-002

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	2241.000	46.07	27.39	5.96	-37.69	41.73	74.00	32.27	PK	Vertical
2	3915.500	45.78	31.17	5.83	-40.40	42.38	74.00	31.62	PK	Vertical
3	4804.600	50.84	32.62	7.48	-40.15	50.79	74.00	23.21	PK	Vertical
4	7477.000	43.99	36.55	7.64	-41.89	46.29	74.00	27.71	PK	Vertical
5	11920.800	41.33	38.96	10.47	-39.52	51.24	74.00	22.76	PK	Vertical
6	15902.200	37.83	38.10	15.44	-39.30	52.07	74.00	21.93	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:

2024-05-22

Tested By:

Genliu

EUT:

BLUETOOTH HEADSET

Model Number:

WAVE BEAM 2

Test Mode:

BLE 1M TX 2440MHz

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:62.3%

Test Site:

DDT 3# Chamber

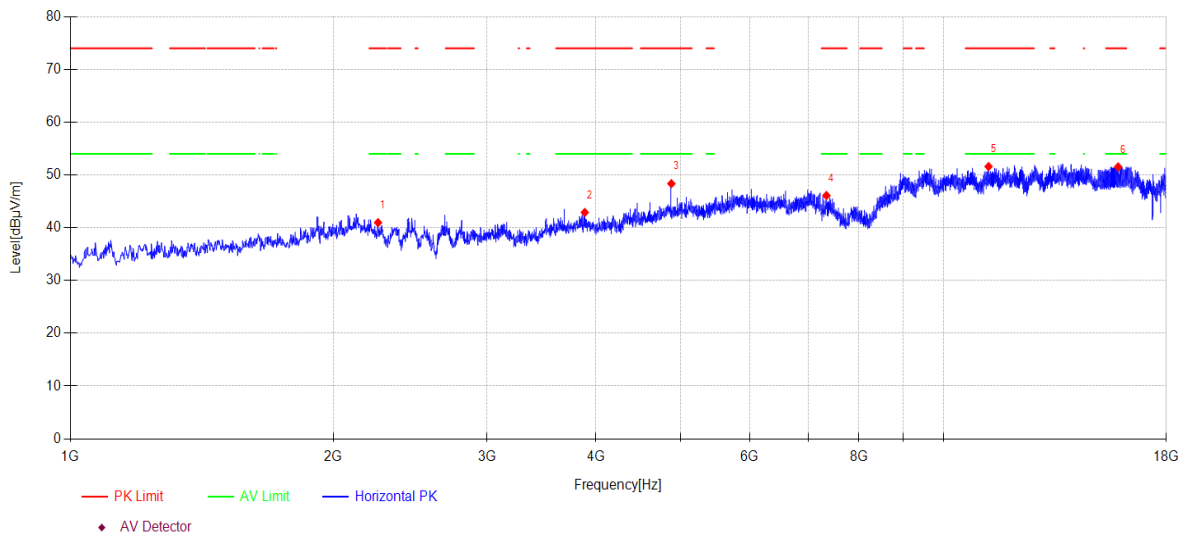
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Memo:

Right side Sample Number: S24020411-002

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	2251.200	45.44	27.29	5.96	-37.72	40.97	74.00	33.03	PK	Horizontal
2	3883.200	46.36	31.10	5.82	-40.38	42.90	74.00	31.10	PK	Horizontal
3	4879.400	47.51	33.33	7.63	-40.12	48.35	74.00	25.65	PK	Horizontal
4	7344.400	43.23	36.81	7.63	-41.56	46.11	74.00	27.89	PK	Horizontal
5	11262.900	41.73	39.20	9.88	-39.21	51.60	74.00	22.40	PK	Horizontal
6	15849.500	37.40	38.20	15.20	-39.27	51.53	74.00	22.47	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:

2024-05-22

Tested By:

Genliu

EUT:

BLUETOOTH HEADSET

Model Number:

WAVE BEAM 2

Test Mode:

BLE 1M TX 2440MHz

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:62.3%

Test Site:

DDT 3# Chamber

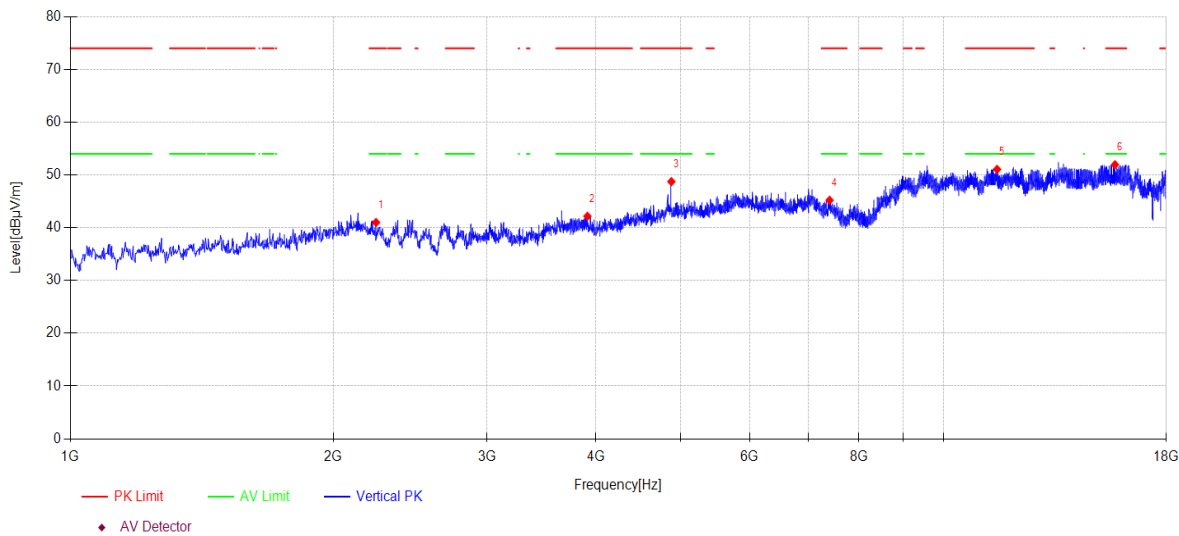
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Memo:

Right side Sample Number: S24020411-002

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	2239.300	45.32	27.41	5.96	-37.69	41.00	74.00	33.00	PK	Vertical
2	3910.400	45.57	31.18	5.83	-40.40	42.18	74.00	31.82	PK	Vertical
3	4879.400	47.90	33.33	7.63	-40.12	48.74	74.00	25.26	PK	Vertical
4	7405.600	42.60	36.69	7.64	-41.71	45.22	74.00	28.78	PK	Vertical
5	11517.900	41.12	39.16	10.11	-39.33	51.06	74.00	22.94	PK	Vertical
6	15720.300	38.06	38.46	14.61	-39.19	51.94	74.00	22.06	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:

2024-05-22

Tested By:

Genliu

EUT:

BLUETOOTH HEADSET

Model Number:

WAVE BEAM 2

Test Mode:

BLE 1M TX 2480MHz

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:62.3%

Test Site:

DDT 3# Chamber

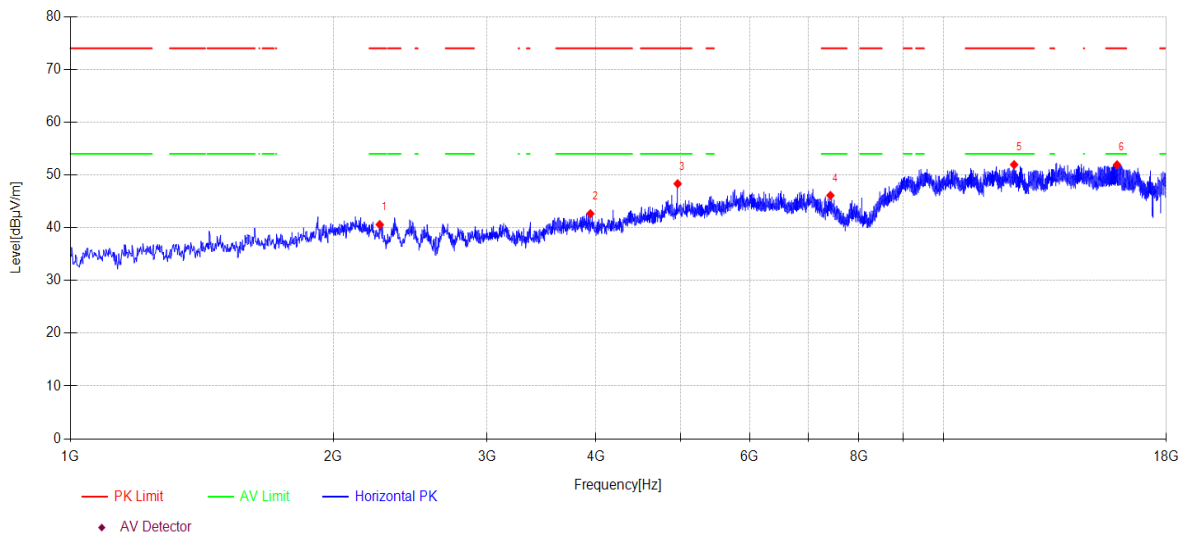
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Memo:

Right side Sample Number: S24020411-002

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	2261.400	45.21	27.19	5.95	-37.75	40.60	74.00	33.40	PK	Horizontal
2	3941.000	46.11	31.12	5.84	-40.41	42.66	74.00	31.34	PK	Horizontal
3	4961.000	47.51	33.12	7.79	-40.09	48.33	74.00	25.67	PK	Horizontal
4	7422.600	43.59	36.65	7.64	-41.76	46.12	74.00	27.88	PK	Horizontal
5	12048.300	41.74	39.25	10.54	-39.58	51.95	74.00	22.05	PK	Horizontal
6	15805.300	37.88	38.29	15.00	-39.24	51.93	74.00	22.07	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:

2024-05-22

Tested By:

Genliu

EUT:

BLUETOOTH HEADSET

Model Number:

WAVE BEAM 2

Test Mode:

BLE 1M TX 2480MHz

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:62.3%

Test Site:

DDT 3# Chamber

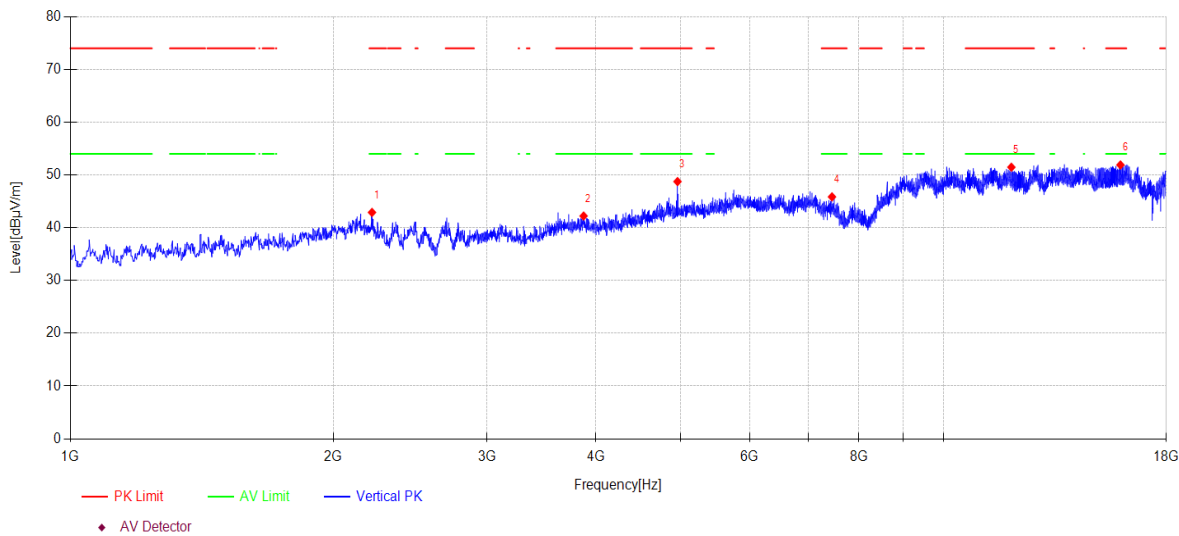
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Memo:

Right side Sample Number: S24020411-002

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	2215.500	46.89	27.65	5.98	-37.62	42.90	74.00	31.10	PK	Vertical
2	3871.300	45.74	31.03	5.82	-40.37	42.22	74.00	31.78	PK	Vertical
3	4959.300	47.94	33.12	7.79	-40.10	48.75	74.00	25.25	PK	Vertical
4	7453.200	43.45	36.59	7.64	-41.83	45.85	74.00	28.15	PK	Vertical
5	11961.600	41.42	39.08	10.51	-39.54	51.47	74.00	22.53	PK	Vertical
6	15949.800	37.53	38.05	15.65	-39.33	51.90	74.00	22.10	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:

2024-05-22

Tested By:

Genliu

EUT:

BLUETOOTH HEADSET

Model Number:

WAVE BEAM 2

Test Mode:

BLE 2M TX 2404MHz

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:62.3%

Test Site:

DDT 3# Chamber

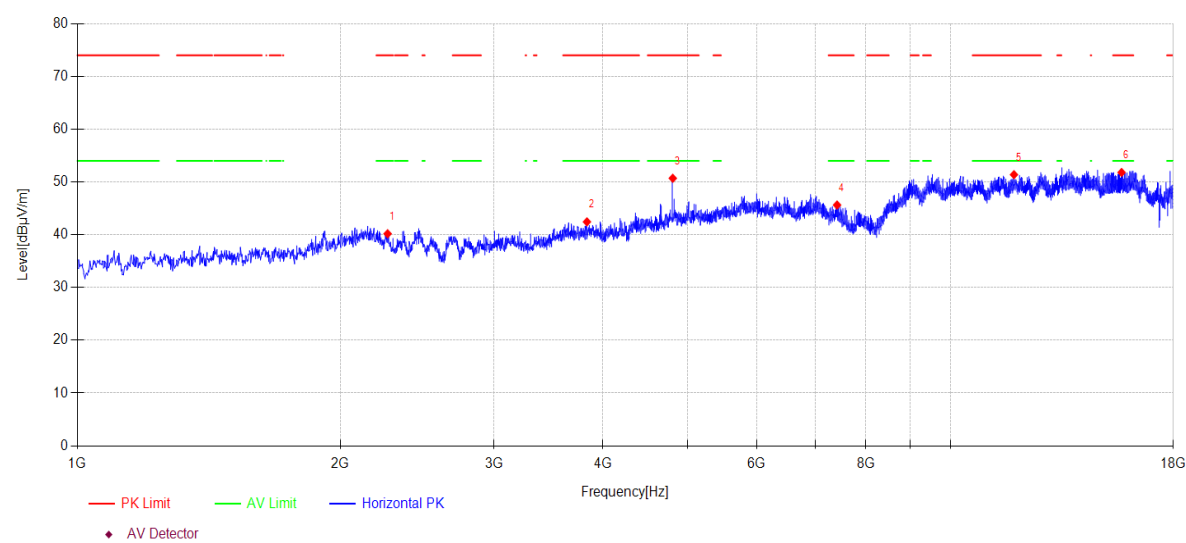
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Memo:

Right side Sample Number: S24020411-002

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	2266.500	44.85	27.14	5.95	-37.76	40.18	74.00	33.82	PK	Horizontal
2	3833.900	46.14	30.84	5.81	-40.35	42.44	74.00	31.56	PK	Horizontal
3	4808.000	50.66	32.71	7.48	-40.15	50.70	74.00	23.30	PK	Horizontal
4	7415.800	43.06	36.67	7.64	-41.74	45.63	74.00	28.37	PK	Horizontal
5	11823.900	41.58	38.90	10.38	-39.48	51.38	74.00	22.62	PK	Horizontal
6	15703.300	37.95	38.49	14.54	-39.18	51.80	74.00	22.20	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:

2024-05-22

Tested By:

Genliu

EUT:

BLUETOOTH HEADSET

Model Number:

WAVE BEAM 2

Test Mode:

BLE 2M TX 2404MHz

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:62.3%

Test Site:

DDT 3# Chamber

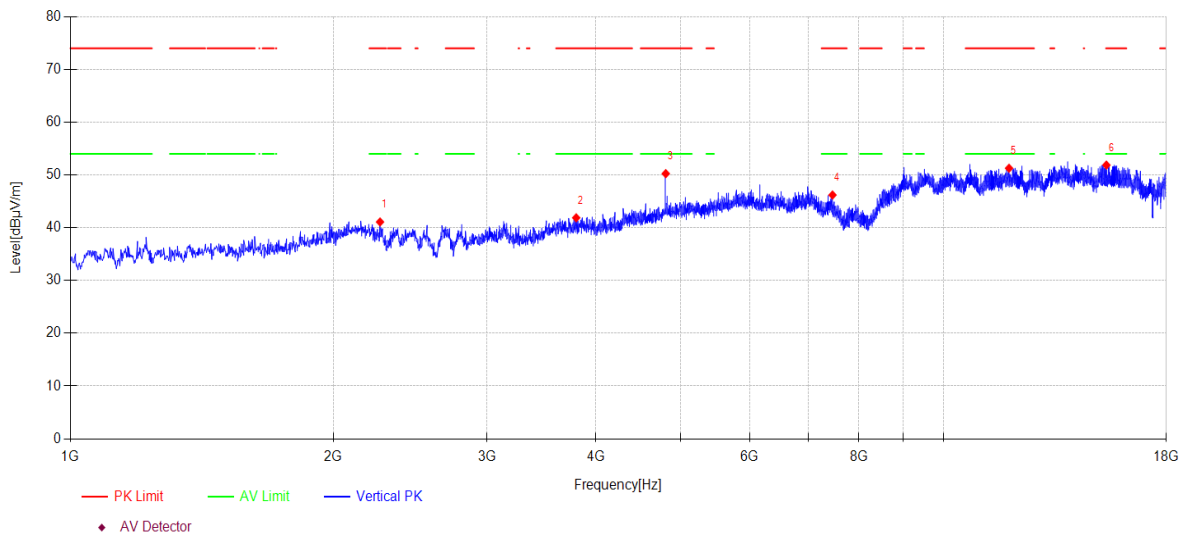
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Memo:

Right side Sample Number: S24020411-002

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	2263.100	45.72	27.17	5.95	-37.75	41.09	74.00	32.91	PK	Vertical
2	3796.500	45.72	30.69	5.81	-40.33	41.89	74.00	32.11	PK	Vertical
3	4808.000	50.21	32.71	7.48	-40.15	50.25	74.00	23.75	PK	Vertical
4	7463.400	43.85	36.57	7.64	-41.86	46.20	74.00	27.80	PK	Vertical
5	11888.500	41.45	38.90	10.44	-39.51	51.28	74.00	22.72	PK	Vertical
6	15368.400	38.58	39.25	13.02	-38.98	51.87	74.00	22.13	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:

2024-05-22

Tested By:

Genliu

EUT:

BLUETOOTH HEADSET

Model Number:

WAVE BEAM 2

Test Mode:

BLE 2M TX 2440MHz

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:62.3%

Test Site:

DDT 3# Chamber

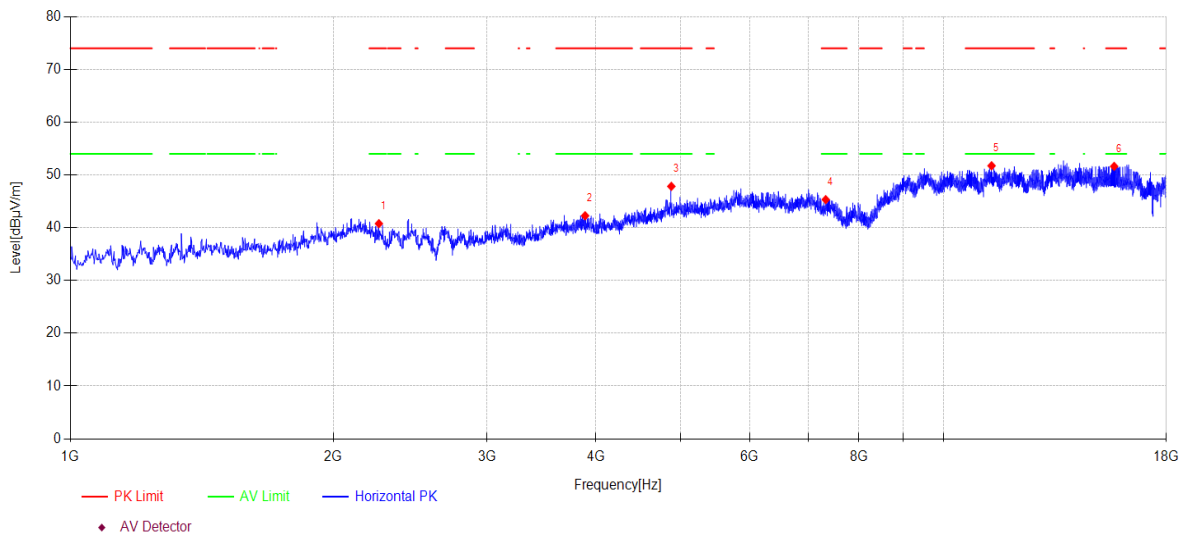
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Memo:

Right side Sample Number: S24020411-002

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	2256.300	45.32	27.24	5.96	-37.74	40.78	74.00	33.22	PK	Horizontal
2	3886.600	45.70	31.12	5.83	-40.38	42.27	74.00	31.73	PK	Horizontal
3	4879.400	47.00	33.33	7.63	-40.12	47.84	74.00	26.16	PK	Horizontal
4	7330.800	42.39	36.84	7.63	-41.53	45.33	74.00	28.67	PK	Horizontal
5	11353.000	41.79	39.25	9.96	-39.26	51.74	74.00	22.26	PK	Horizontal
6	15684.600	37.83	38.52	14.45	-39.17	51.63	74.00	22.37	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:

2024-05-22

Tested By:

Genliu

EUT:

BLUETOOTH HEADSET

Model Number:

WAVE BEAM 2

Test Mode:

BLE 2M TX 2440MHz

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:62.3%

Test Site:

DDT 3# Chamber

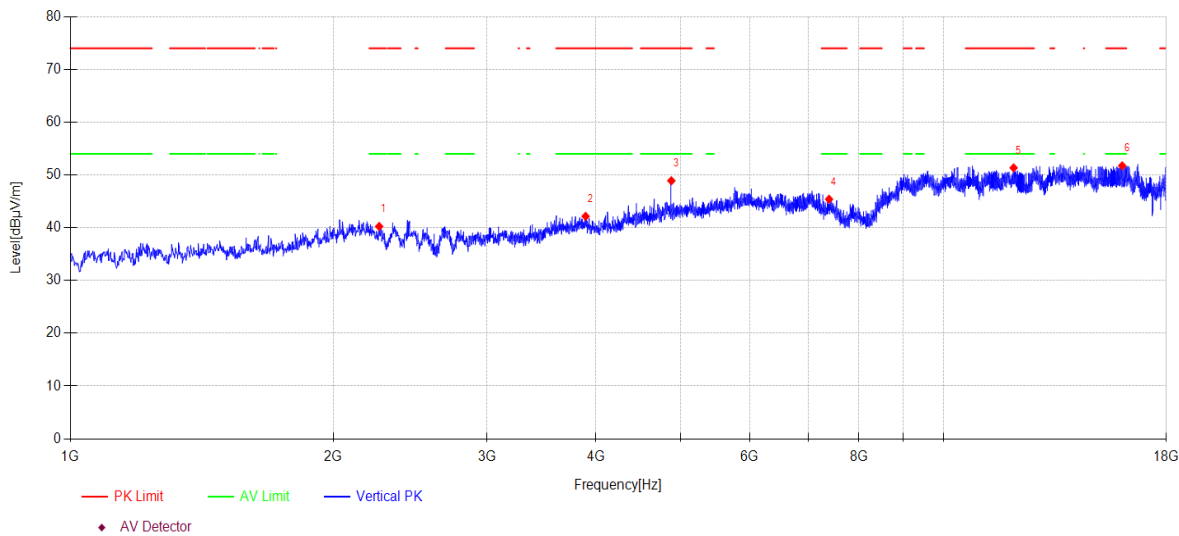
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Memo:

Right side Sample Number: S24020411-002

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	2258.000	44.80	27.22	5.96	-37.74	40.24	74.00	33.76	PK	Vertical
2	3891.700	45.56	31.15	5.83	-40.38	42.16	74.00	31.84	PK	Vertical
3	4879.400	48.06	33.33	7.63	-40.12	48.90	74.00	25.10	PK	Vertical
4	7395.400	42.75	36.71	7.64	-41.69	45.41	74.00	28.59	PK	Vertical
5	12033.000	41.15	39.23	10.54	-39.57	51.35	74.00	22.65	PK	Vertical
6	16022.900	37.35	37.98	15.79	-39.38	51.74	74.00	22.26	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:

2024-05-22

Tested By:

Genliu

EUT:

BLUETOOTH HEADSET

Model Number:

WAVE BEAM 2

Test Mode:

BLE 2M TX 2478MHz

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:62.3%

Test Site:

DDT 3# Chamber

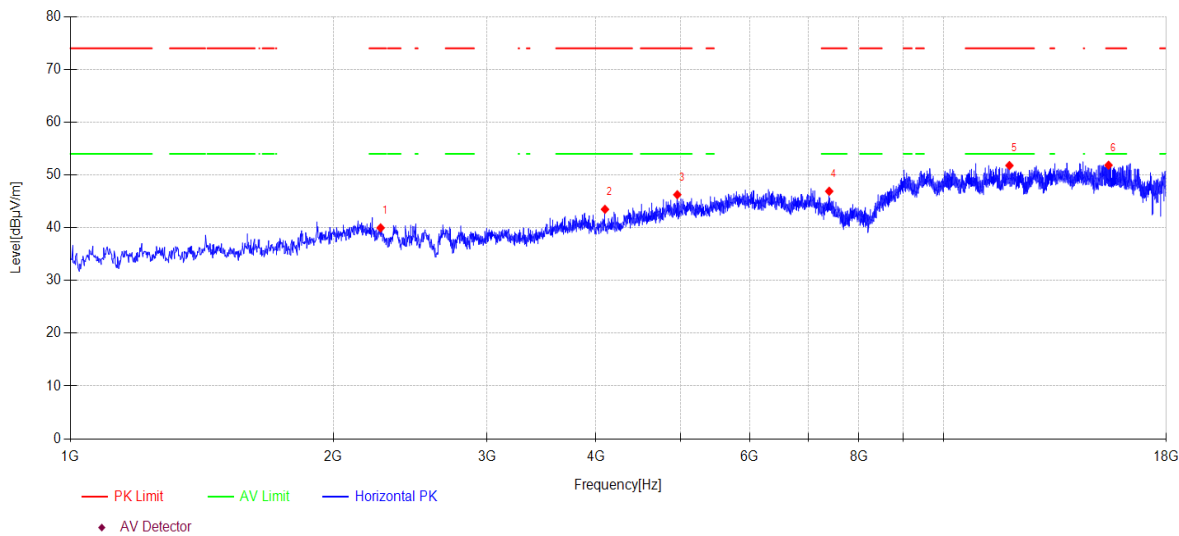
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Memo:

Right side Sample Number: S24020411-002

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	2266.500	44.64	27.14	5.95	-37.76	39.97	74.00	34.03	PK	Horizontal
2	4095.700	46.77	31.09	6.04	-40.41	43.49	74.00	30.51	PK	Horizontal
3	4955.900	45.47	33.11	7.78	-40.10	46.26	74.00	27.74	PK	Horizontal
4	7398.800	44.27	36.70	7.64	-41.70	46.91	74.00	27.09	PK	Horizontal
5	11900.400	41.95	38.90	10.45	-39.51	51.79	74.00	22.21	PK	Horizontal
6	15455.100	38.58	38.89	13.41	-39.03	51.85	74.00	22.15	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:

2024-05-22

Tested By:

Genliu

EUT:

BLUETOOTH HEADSET

Model Number:

WAVE BEAM 2

Test Mode:

BLE 2M TX 2478MHz

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:62.3%

Test Site:

DDT 3# Chamber

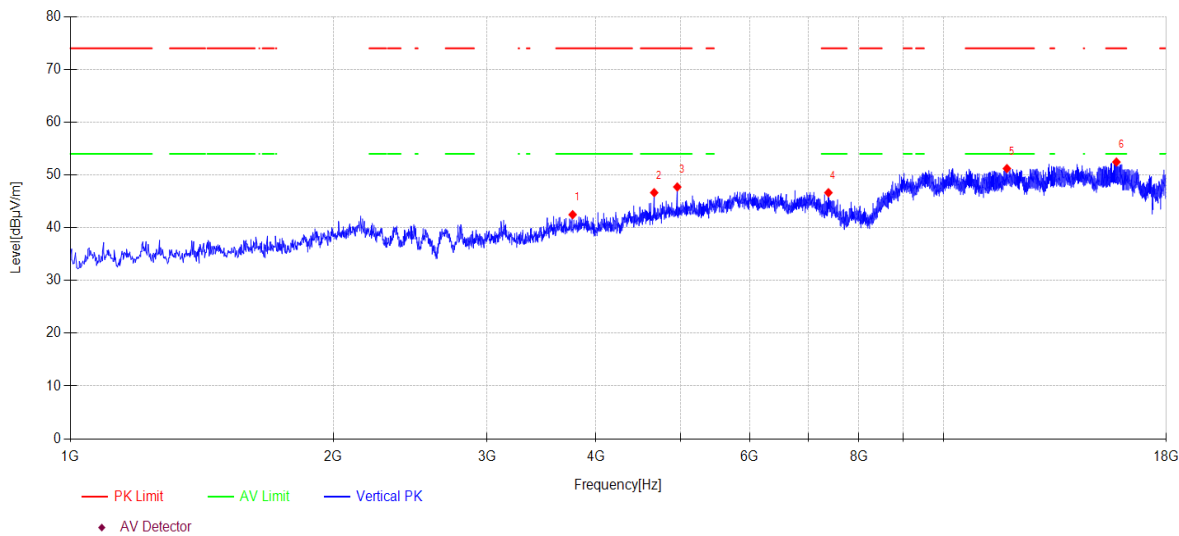
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Memo:

Right side Sample Number: S24020411-002

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	3760.800	46.44	30.54	5.80	-40.30	42.48	74.00	31.52	PK	Vertical
2	4663.500	47.61	32.05	7.19	-40.20	46.65	74.00	27.35	PK	Vertical
3	4955.900	46.94	33.11	7.78	-40.10	47.73	74.00	26.27	PK	Vertical
4	7383.500	43.93	36.73	7.64	-41.66	46.64	74.00	27.36	PK	Vertical
5	11822.200	41.41	38.90	10.38	-39.48	51.21	74.00	22.79	PK	Vertical
6	15779.800	38.46	38.34	14.88	-39.23	52.45	74.00	21.55	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.

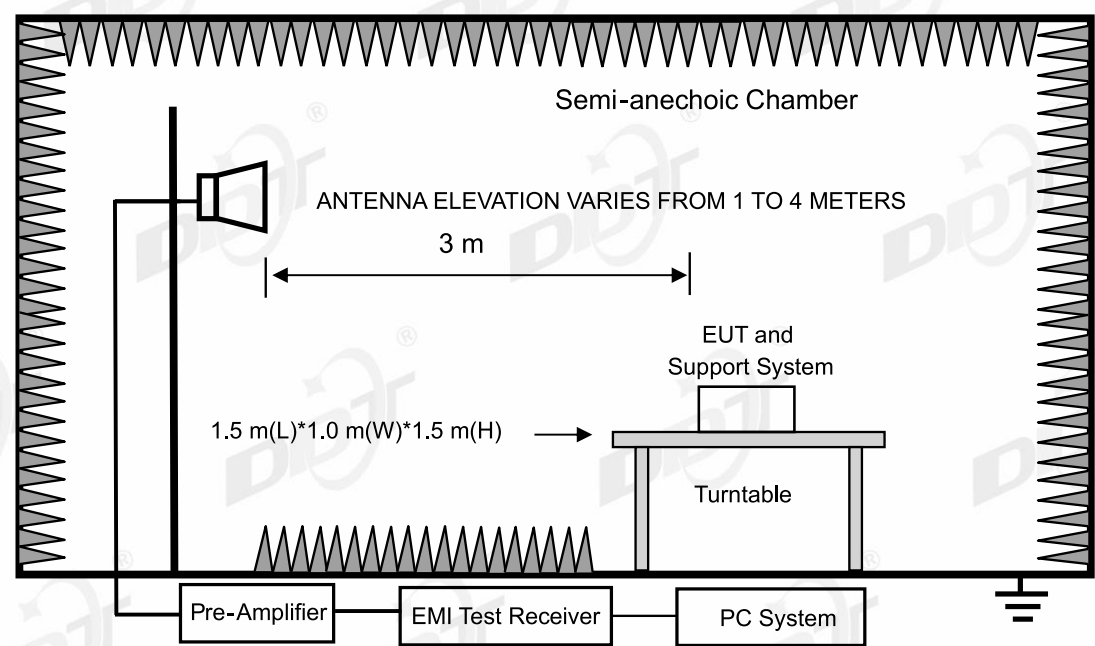
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

13.Band Edge Compliance

13.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
EMI TEST RECEIVER	R&S	ESU26	100472	2025/03/31
PSA Series Spectrum Analyzer	Agilent	E4447A	MY50180031	2025/03/31
Active Loop Antenna	Schwarzbeck	FMZB-1519	1519-038	2025/09/10
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	01429	2025/07/11
Double Ridged Horn Antenna	Schwarzbeck	BBHA 9120 D	02468	2024/09/17
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	790	2025/04/25
Pre-amplifier	COM-POWER	PAM-118A	18040084	2024/07/14
Pre-amplifier	COM-POWER	PAM-840A	461369	2025/03/31
RE Cable	N/A	W23.02 CP1-X2 + W23.09 AP1-X8+ JCT26S-NJ-NJ-1.5M	4.5M+8M+1.5M	2025/03/31
RF Cable	Yuhu	JCTB810-NJ-NJ-9M+ ZT26S-SMAJ-SMAJ-1M	21123964	2025/03/31
Band Reject Filter(2400-2500 MHz)	REBES	BRM50702	G555	N/A
Band Reject Filter(5150-5880 MHz)	REBES	BRM50716	G392	N/A
High Pass Filter(8000-25000 MHz)	XB	XBLBQ-GTA67	210820-2-3	N/A
Test Software	Tonscend	JS32-RE	V 5.0.0.1	N/A
RF cable	Zhongke Junchuang	JCT26S-NJ-NJ-1.5M	DDT-ZC02762	2025/04/01
Micro-Tronics filters	REBES	BRM50716	DDT-ZC03240	/
High pass filter	Micro-Tronics	HPM50108	DDT-ZC00560	2025/04/22

13.2. Block diagram of test setup



13.3. Limits

All restriction band should comply with 15.209 and RSS-Gen section 8.9 limits, other emission should be at least 20 dB below the fundamental.

13.4. Assistant equipment used for test

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

13.5. 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.

13.6. Test result

PASS. (See below detailed test result)

13.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-05-18

Tested By:

Genliu

EUT:

BLUETOOTH HEADSET

Model Number:

WAVE BEAM 2

Test Mode:

BLE 1M TX 2402MHz

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:62.3%

Test Site:

DDT 3# Chamber

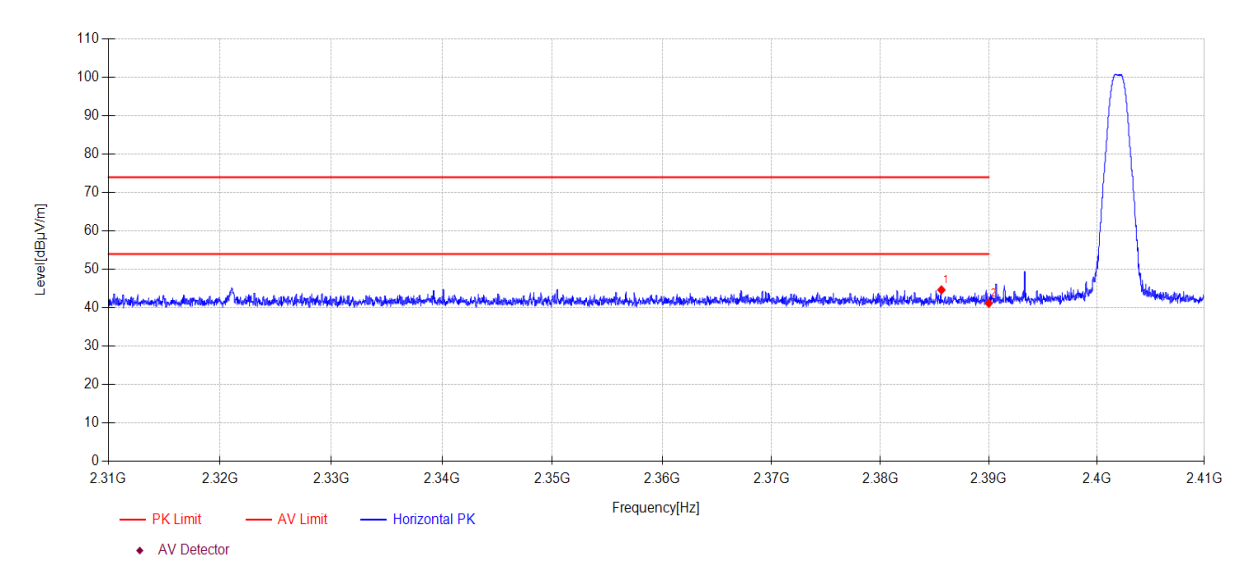
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Memo:

Left side Sample Number: S24020411-002

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	2385.620	13.57	27.24	3.86	0.00	44.67	74.00	29.33	PK	Horizontal
2	2390.000	10.06	27.26	3.87	0.00	41.19	74.00	32.81	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:

2024-05-18

Tested By:

Genliu

EUT:

BLUETOOTH HEADSET

Model Number:

WAVE BEAM 2

Test Mode:

BLE 1M TX 2402MHz

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:62.3%

Test Site:

DDT 3# Chamber

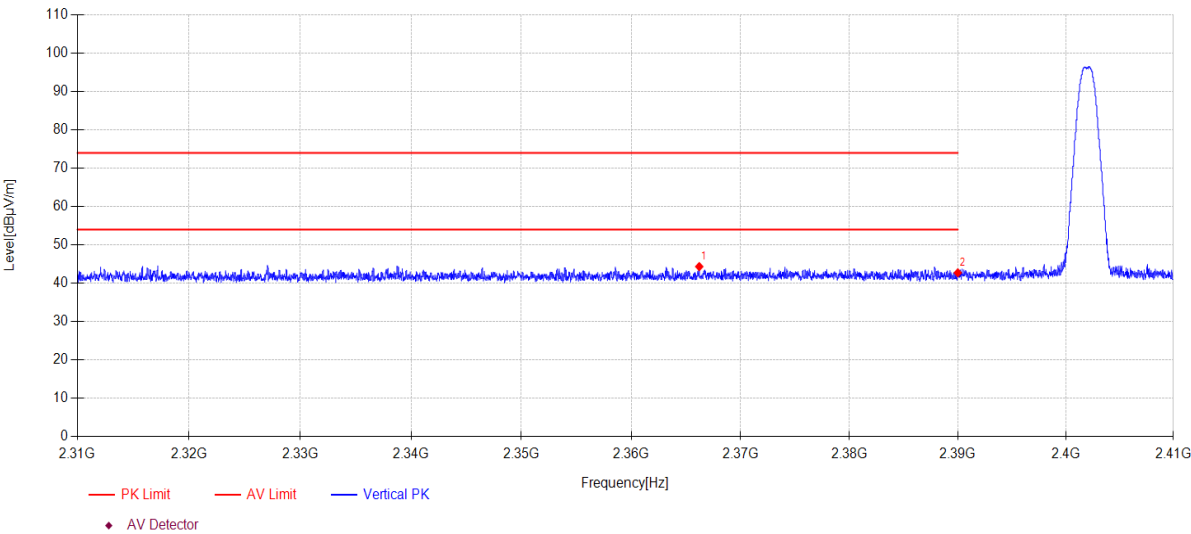
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Memo:

Left side Sample Number: S24020411-002

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	2366.220	13.34	27.16	3.85	0.00	44.35	74.00	29.65	PK	Vertical
2	2390.000	11.61	27.26	3.87	0.00	42.74	74.00	31.26	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:

2024-05-18

Tested By:

Genliu

EUT:

BLUETOOTH HEADSET

Model Number:

WAVE BEAM 2

Test Mode:

BLE 2M TX 2404MHz

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:62.3%

Test Site:

DDT 3# Chamber

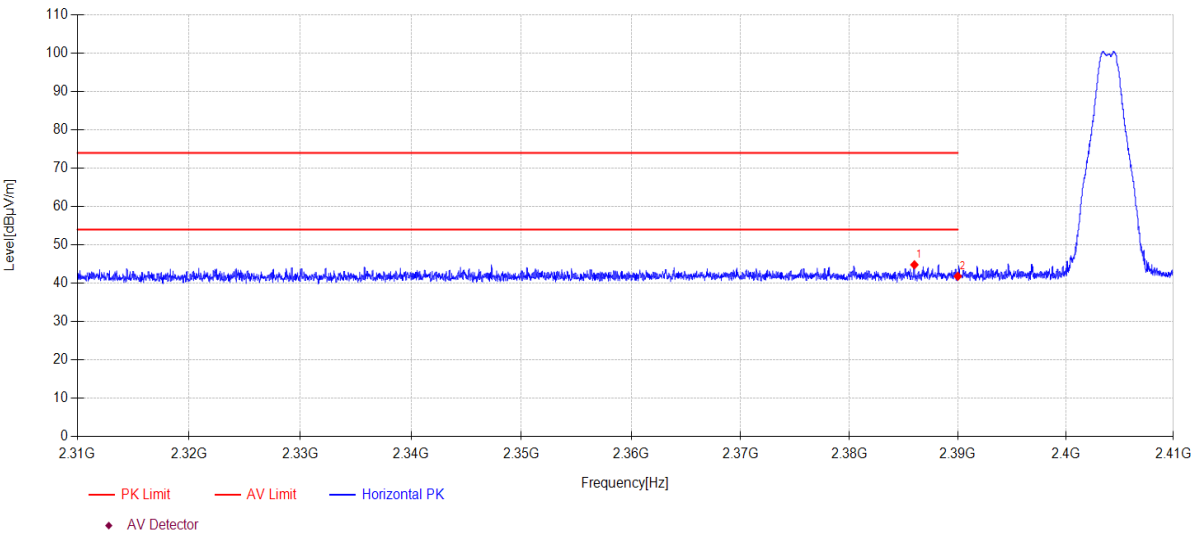
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Memo:

Left side Sample Number: S24020411-002

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	2385.990	13.72	27.24	3.86	0.00	44.82	74.00	29.18	PK	Horizontal
2	2390.000	10.69	27.26	3.87	0.00	41.82	74.00	32.18	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:

2024-05-18

Tested By:

Genliu

EUT:

BLUETOOTH HEADSET

Model Number:

WAVE BEAM 2

Test Mode:

BLE 2M TX 2404MHz

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:62.3%

Test Site:

DDT 3# Chamber

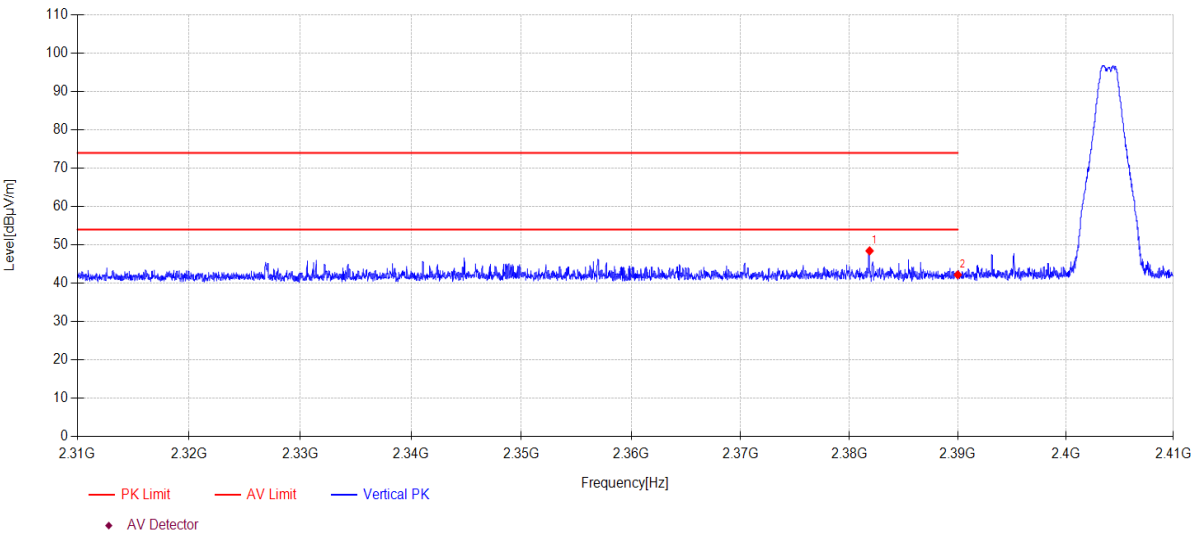
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Memo:

Left side Sample Number: S24020411-002

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	2381.860	17.36	27.23	3.86	0.00	48.45	74.00	25.55	PK	Vertical
2	2390.000	11.09	27.26	3.87	0.00	42.22	74.00	31.78	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:

2024-05-18

Tested By:

Genliu

EUT:

BLUETOOTH HEADSET

Model Number:

WAVE BEAM 2

Test Mode:

BLE 1M TX 2480MHz

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:62.3%

Test Site:

DDT 3# Chamber

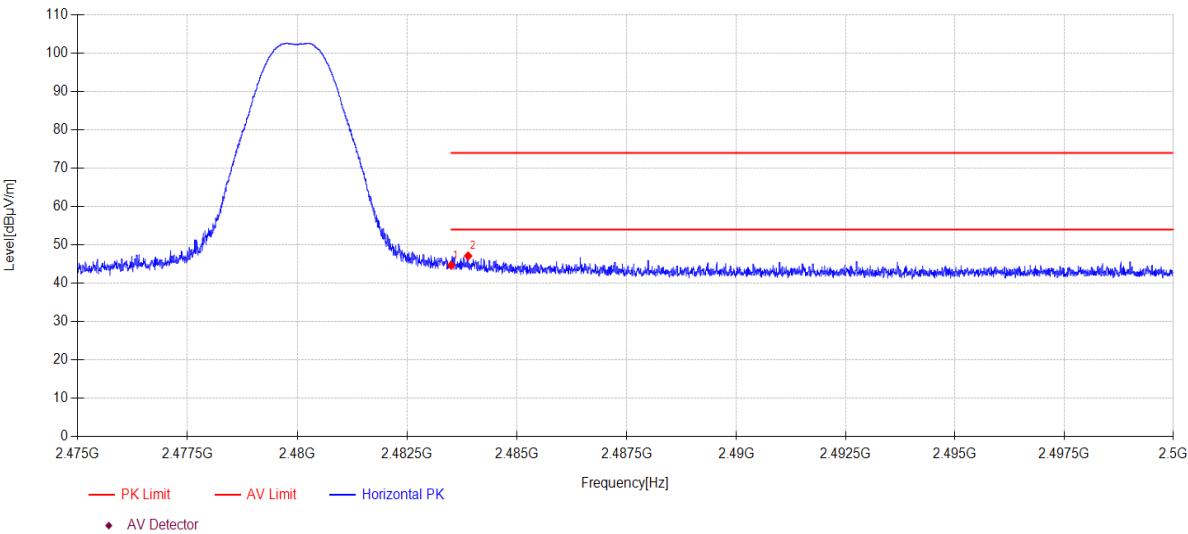
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Memo:

Left side Sample Number: S24020411-002

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	2483.500	13.22	27.53	3.94	0.00	44.69	74.00	29.31	PK	Horizontal
2	2483.885	15.65	27.54	3.94	0.00	47.13	74.00	26.87	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:

2024-05-18

Tested By:

Genliu

EUT:

BLUETOOTH HEADSET

Model Number:

WAVE BEAM 2

Test Mode:

BLE 1M TX 2480MHz

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:62.3%

Test Site:

DDT 3# Chamber

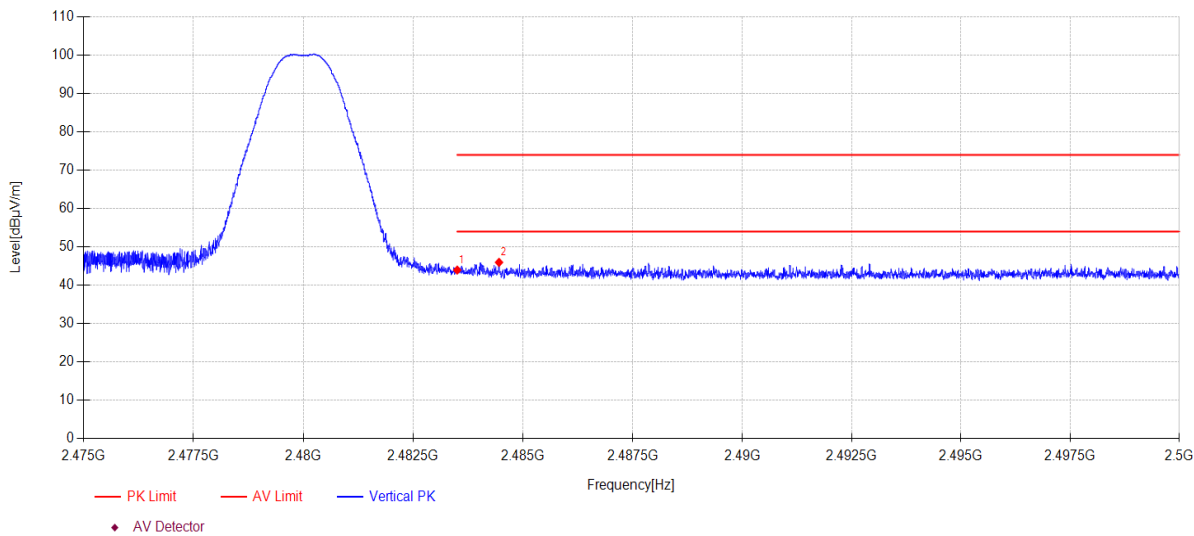
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Memo:

Left side Sample Number: S24020411-002

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	2483.500	12.50	27.53	3.94	0.00	43.97	74.00	30.03	PK	Vertical
2	2484.453	14.50	27.54	3.94	0.00	45.98	74.00	28.02	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:

2024-05-18

Tested By:

Genliu

EUT:

BLUETOOTH HEADSET

Model Number:

WAVE BEAM 2

Test Mode:

BLE 2M TX 2478MHz

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:62.3%

Test Site:

DDT 3# Chamber

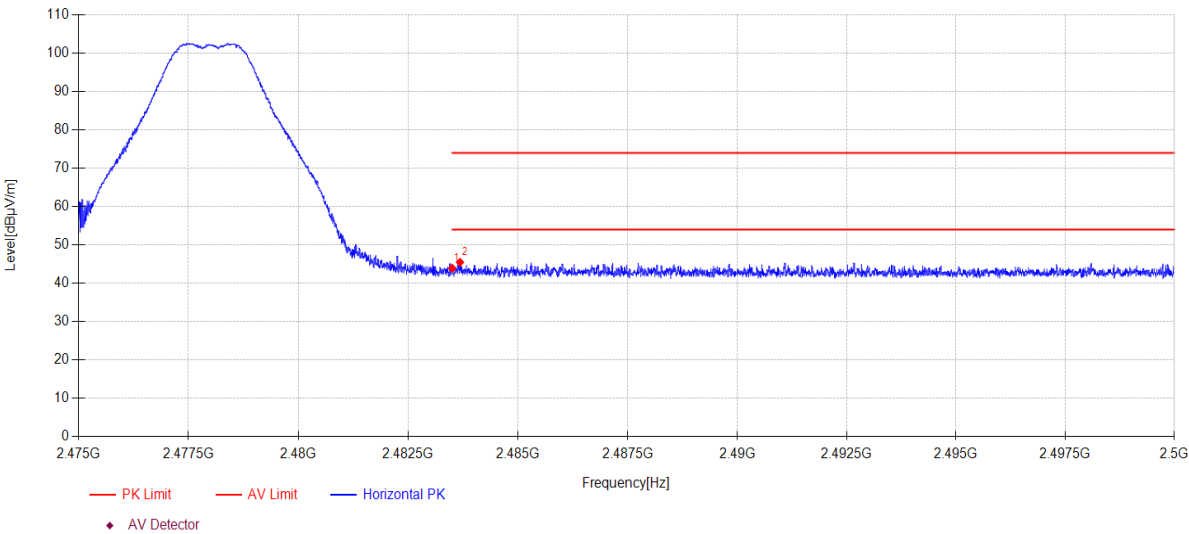
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Memo:

Left side Sample Number: S24020411-002

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	2483.500	12.43	27.53	3.94	0.00	43.90	74.00	30.10	PK	Horizontal
2	2483.678	14.00	27.53	3.94	0.00	45.47	74.00	28.53	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:

2024-05-18

Tested By:

Genliu

EUT:

BLUETOOTH HEADSET

Model Number:

WAVE BEAM 2

Test Mode:

BLE 2M TX 2478MHz

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:62.3%

Test Site:

DDT 3# Chamber

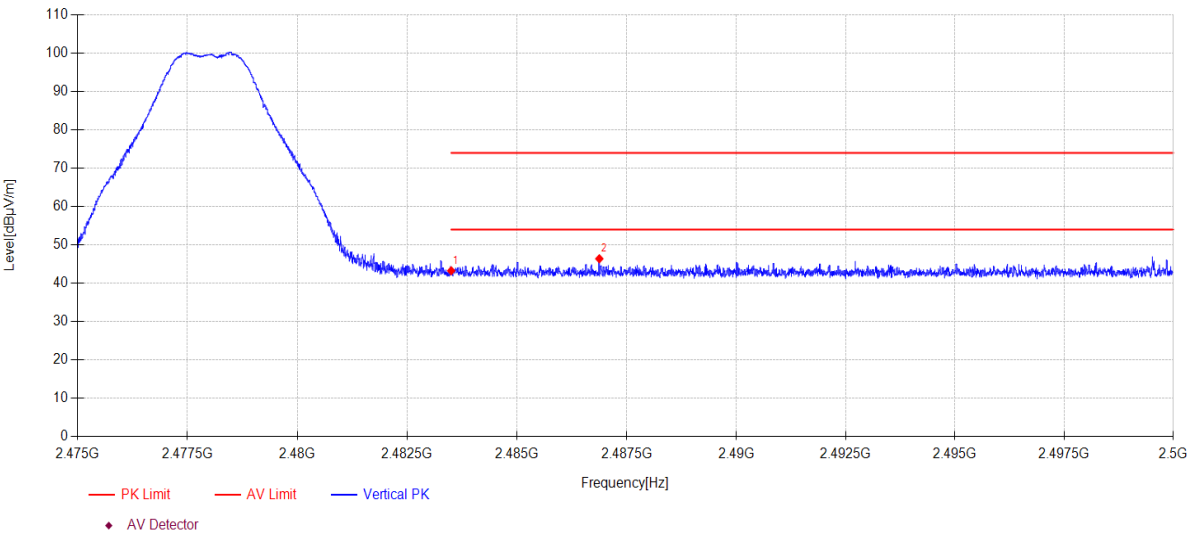
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Memo:

Left side Sample Number: S24020411-002

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	2483.500	11.80	27.53	3.94	0.00	43.27	74.00	30.73	PK	Vertical
2	2486.875	14.90	27.55	3.94	0.00	46.39	74.00	27.61	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:

2024-05-22

Tested By:

Genliu

EUT:

BLUETOOTH HEADSET

Model Number:

WAVE BEAM 2

Test Mode:

BLE 1M TX 2402MHz

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:62.3%

Test Site:

DDT 3# Chamber

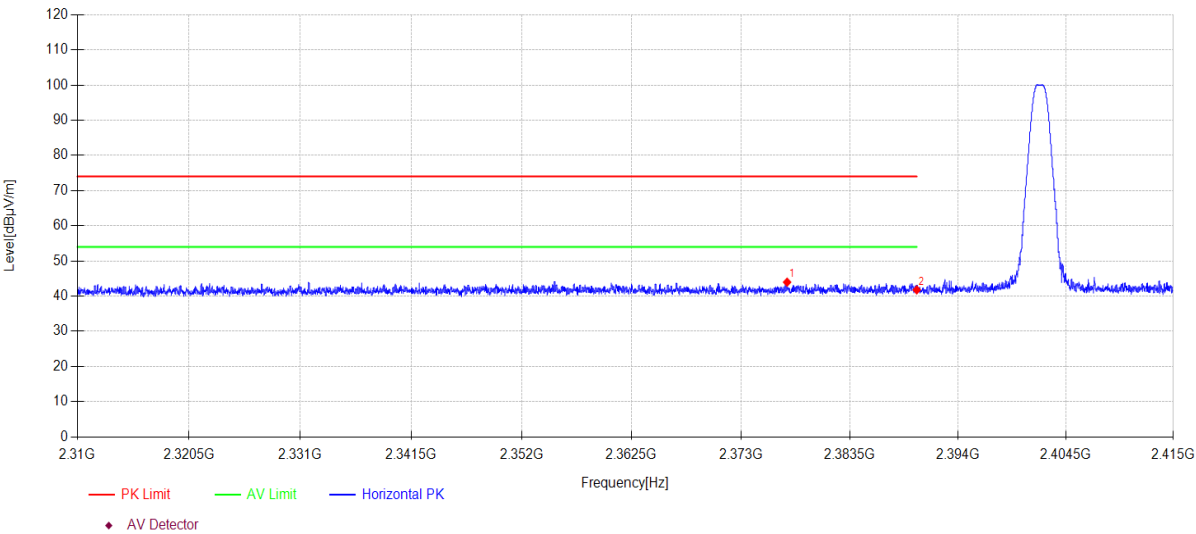
File Path:

d:\ts\2024 report data\Q24020411-2E\FCC ABOVE 1G\63

Memo:

Right side Sample Number: S24020411-002

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	2377.463	12.89	27.21	3.86	0.00	43.96	74.00	30.04	PK	Horizontal
2	2390.000	10.63	27.26	3.87	0.00	41.76	-	-	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:

2024-05-22

Tested By:

Genliu

EUT:

BLUETOOTH HEADSET

Model Number:

WAVE BEAM 2

Test Mode:

BLE 1M TX 2402MHz

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:62.3%

Test Site:

DDT 3# Chamber

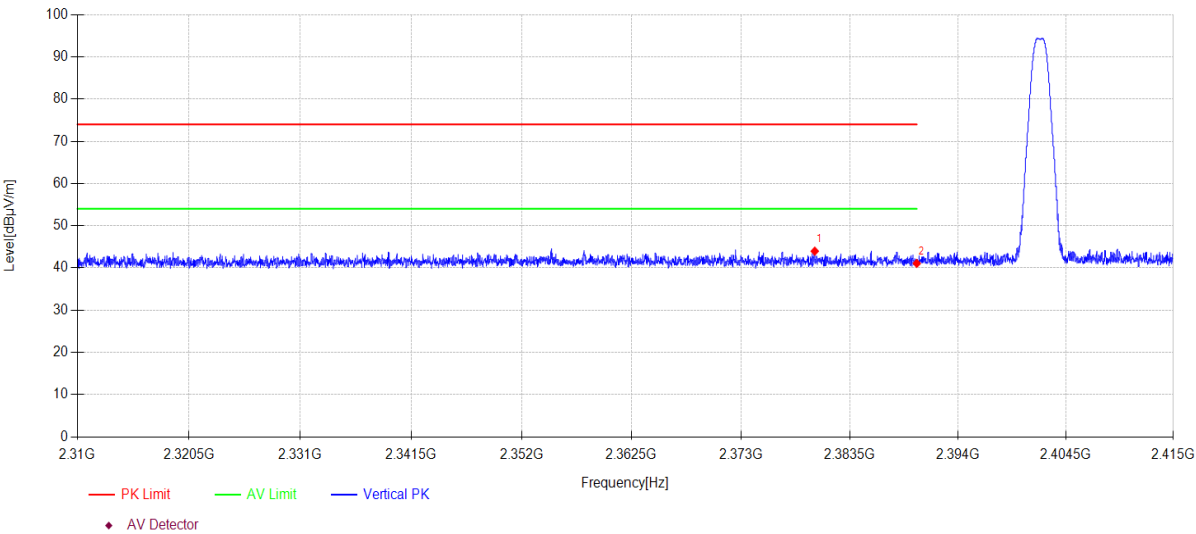
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Memo:

Right side Sample Number: S24020411-002

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	2380.130	12.89	27.22	3.86	0.00	43.97	74.00	30.03	PK	Vertical
2	2390.000	9.95	27.26	3.87	0.00	41.08	-	-	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:

2024-05-22

Tested By:

Genliu

EUT:

BLUETOOTH HEADSET

Model Number:

WAVE BEAM 2

Test Mode:

BLE 2M TX 2404MHz

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:62.3%

Test Site:

DDT 3# Chamber

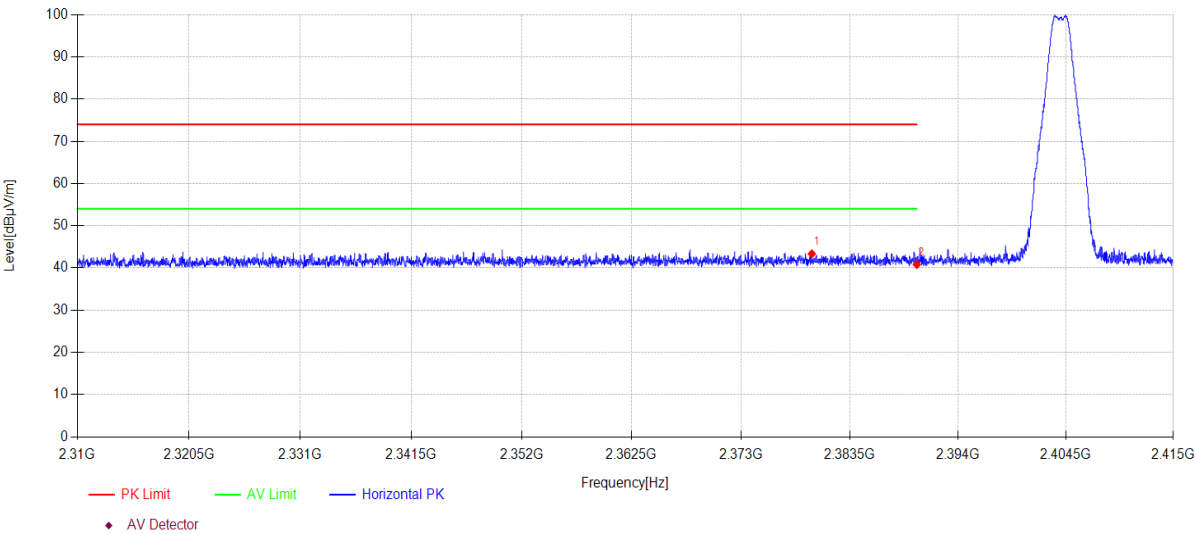
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d:\ts\2024 report data\Q24020411-2E\FCC ABOVE 1G\65

Memo:

Right side Sample Number: S24020411-002

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	2379.846	12.26	27.22	3.86	0.00	43.34	74.00	30.66	PK	Horizontal
2	2390.000	9.69	27.26	3.87	0.00	40.82	-	-	PK	Horizontal

Note:

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

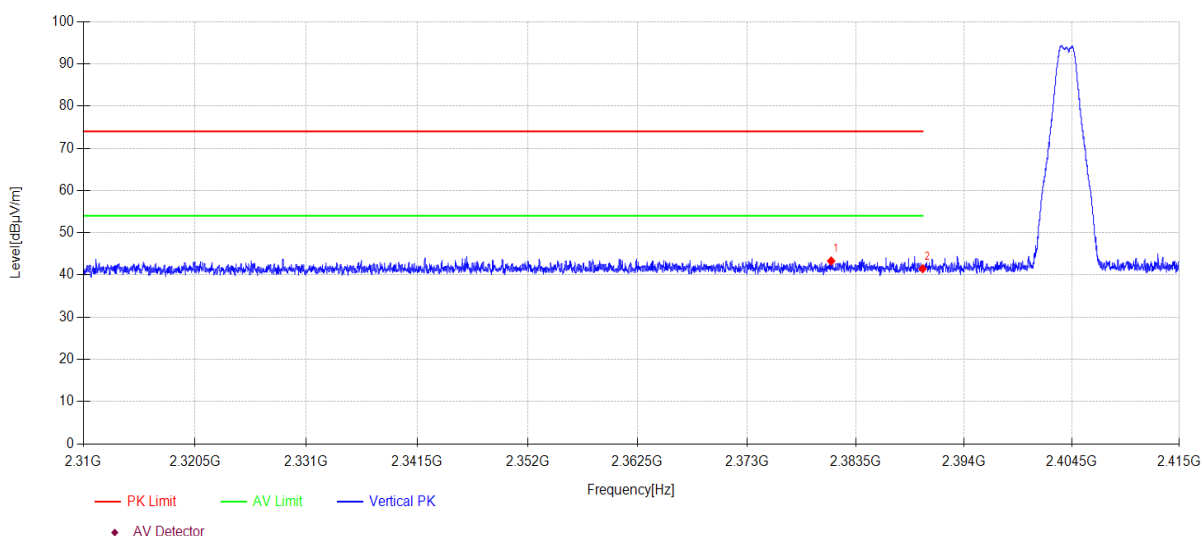
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

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

TR-4-E-009 Radiated Emission Test Result

Test Date: 2024-05-22 **Tested By:** Genliu
EUT: BLUETOOTH HEADSET **Model Number:** WAVE BEAM 2
Test Mode: BLE 2M TX 2404MHz **Power Supply:** Battery
Condition: Temp:23.4°C;Humi:62.3% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24020411-2E\FCC ABOVE 1G\66
Memo: Right side Sample Number: S24020411-002

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	2381.138	12.22	27.22	3.86	0.00	43.30	74.00	30.70	PK	Vertical
2	2390.000	10.36	27.26	3.87	0.00	41.49	-	-	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:

2024-05-22

Tested By:

Genliu

EUT:

BLUETOOTH HEADSET

Model Number:

WAVE BEAM 2

Test Mode:

BLE 1M TX 2480MHz

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:62.3%

Test Site:

DDT 3# Chamber

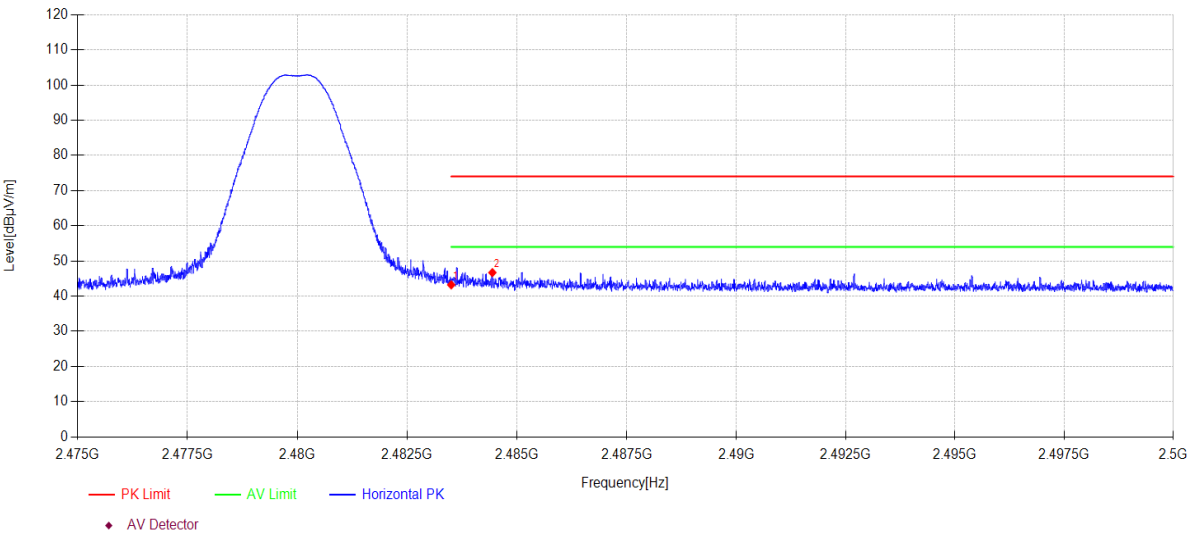
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d:\ts\2024 report data\Q24020411-2E\FCC ABOVE 1G\69

Memo:

Right side Sample Number: S24020411-002

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	2483.500	11.73	27.53	3.94	0.00	43.20	74.00	30.80	PK	Horizontal
2	2484.438	15.20	27.54	3.94	0.00	46.68	74.00	27.32	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:

2024-05-22

Tested By:

Genliu

EUT:

BLUETOOTH HEADSET

Model Number:

WAVE BEAM 2

Test Mode:

BLE 1M TX 2480MHz

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:62.3%

Test Site:

DDT 3# Chamber

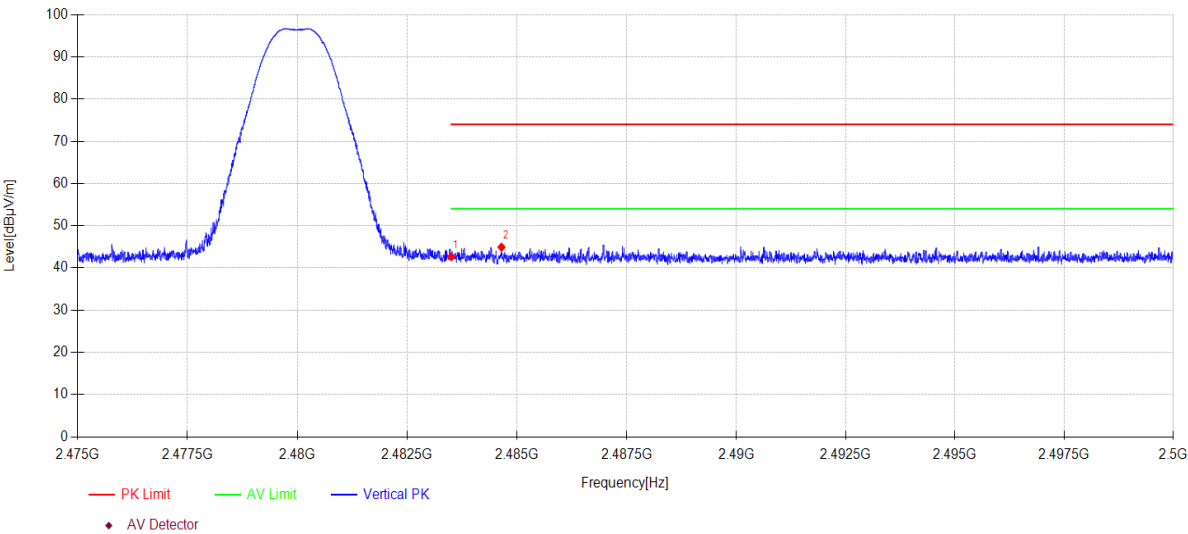
File Path:

d:\ts\2024 report data\Q24020411-2E\FCC ABOVE 1G\70

Memo:

Right side Sample Number: S24020411-002

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	2483.500	11.17	27.53	3.94	0.00	42.64	74.00	31.36	PK	Vertical
2	2484.645	13.45	27.54	3.94	0.00	44.93	74.00	29.07	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:

2024-05-22

Tested By:

Genliu

EUT:

BLUETOOTH HEADSET

Model Number:

WAVE BEAM 2

Test Mode:

BLE 2M TX 2478MHz

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:62.3%

Test Site:

DDT 3# Chamber

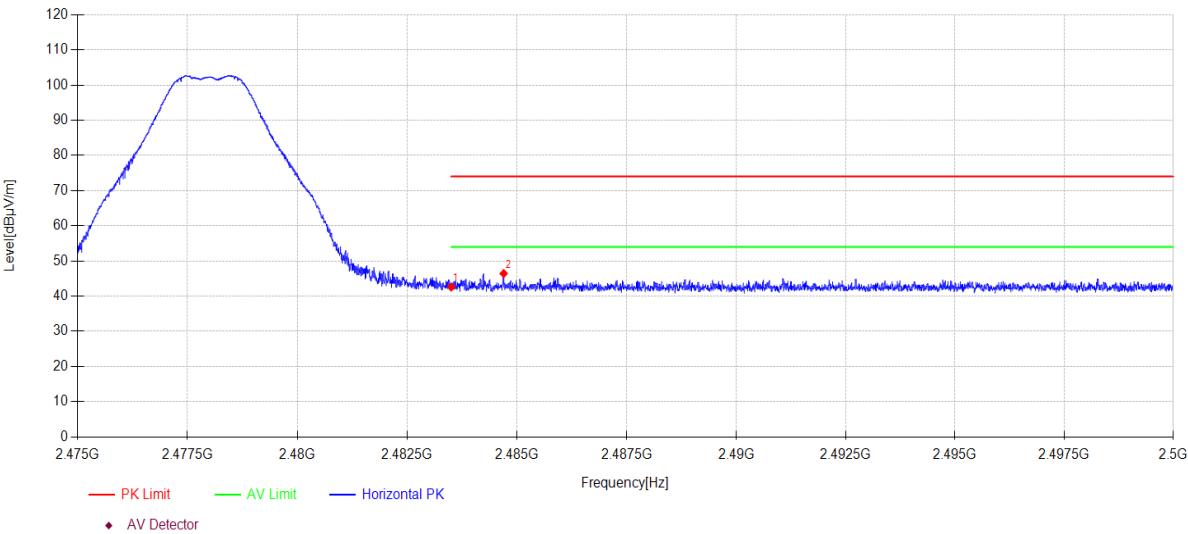
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Memo:

Right side Sample Number: S24020411-002

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	2483.500	11.12	27.53	3.94	0.00	42.59	74.00	31.41	PK	Horizontal
2	2484.695	14.93	27.54	3.94	0.00	46.41	74.00	27.59	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:

2024-05-22

Tested By:

Genliu

EUT:

BLUETOOTH HEADSET

Model Number:

WAVE BEAM 2

Test Mode:

BLE 2M TX 2478MHz

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:62.3%

Test Site:

DDT 3# Chamber

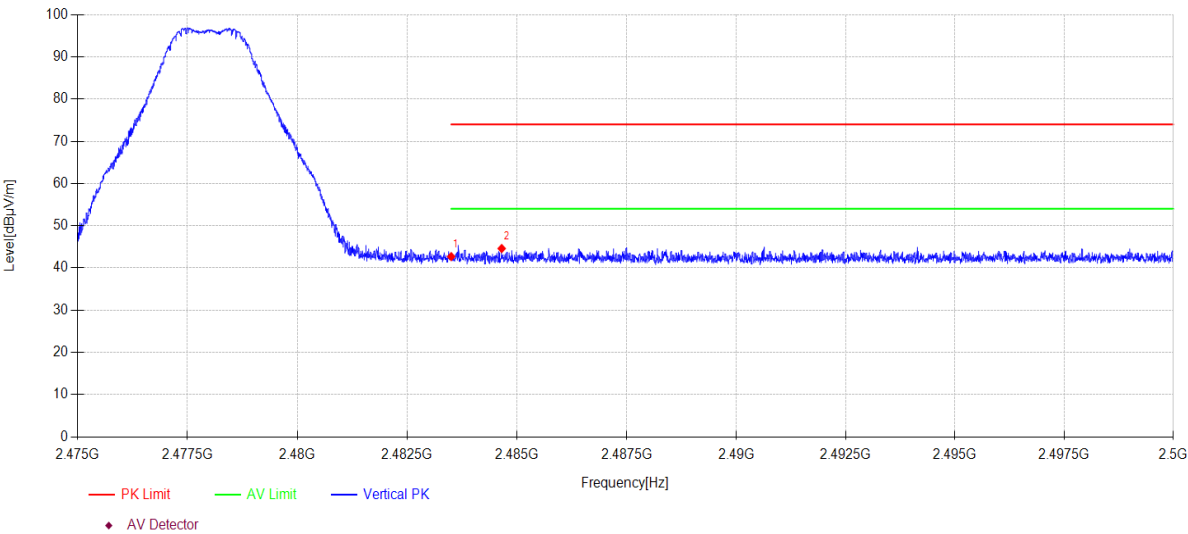
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Memo:

Right side Sample Number: S24020411-002

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	2483.500	11.22	27.53	3.94	0.00	42.69	74.00	31.31	PK	Vertical
2	2484.650	13.12	27.54	3.94	0.00	44.60	74.00	29.40	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.

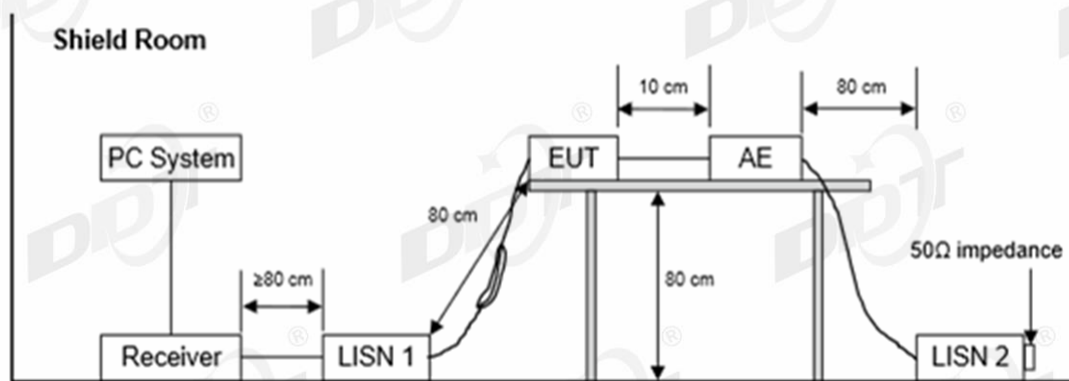
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

14.Power Line Conducted Emissions

14.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
EMI Test Receiver	R&S	ESCI/E3	DDT-ZC01297	2024/07/12
Three-phase artificial power network	SCHWARZBEC K	NSLK 8163	DDT-ZC01572	2024/07/12
Two Line V-Network	R&S	ENV216	DDT-ZC02059	2024/07/12
Pulse Limiter	SCHWARZBEC K	VTSD 9561	DDT-ZC02128	2024/07/15
Conducted Radiated Software	Audix	E3	DDT-ZC00562	/
RF Cable	Yuhu Technology	Z806-NJ-NJ-6M	DDT-ZC02004	2024/07/15
Δ -shaped artificial power network	SCHWARZBEC K	PVDC 8301	DDT-ZC03939	2025/04/01
Two Line V-Network	R&S	ENV216	DDT-ZC02056	2024/07/12

14.2. Block diagram of test setup



14.3. 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.

14.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
Adapter	HUAWEI	HW-100400C01	Huawei Fast Charge 2 #	Input: 100-240V~50/60Hz, Output: 5V/2A or 9V/2A or 10V/4A MAX

14.5. 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.

14.6. 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.

14.7. Test data

TR-4-E-010 Conducted Emission Test Result

Test Site

: DDT 6# Shield Room

Test Date

: 2024-05-24

EUT

: BLUETOOTH HEADSET

Power Supply

: AC 120V/60Hz

Condition

: Temp:21.8°C,Humi:51.9%

Tested By

: Antony Zeng

Model Number

: WAVE BEAM 2

Test Mode

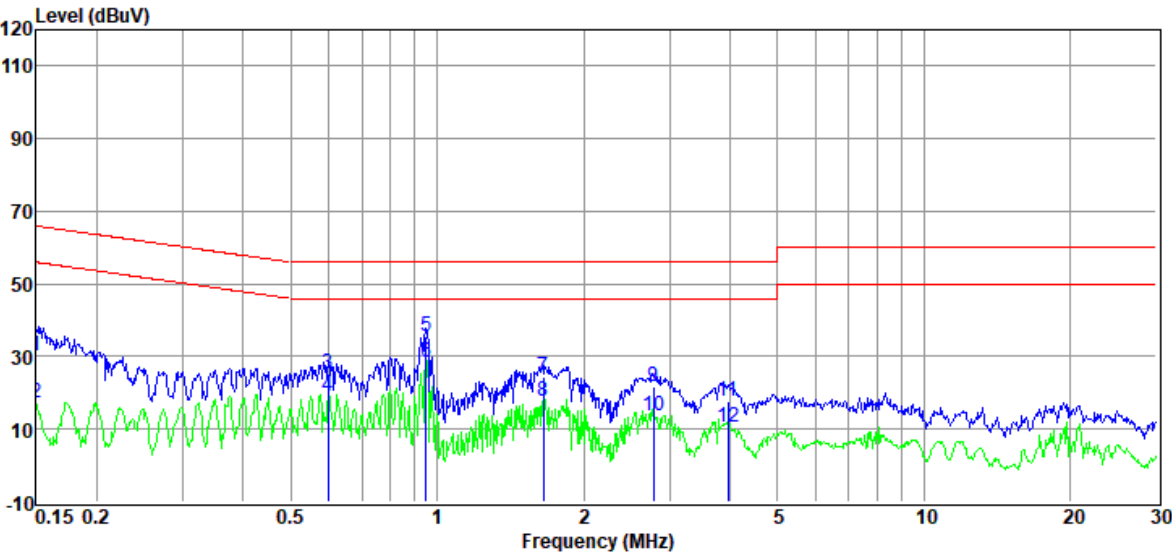
: Tx mode

LISN

: 2023 ENV 216 3#/LINE

Memo :

Data: 6



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	10.40	9.90	0.10	9.94	30.34	66.00	-35.66	QP	LINE
2	0.15	-2.72	9.90	0.10	9.94	17.22	56.00	-38.78	Average	LINE
3	0.60	5.46	9.73	0.14	9.96	25.29	56.00	-30.71	QP	LINE
4	0.60	-0.84	9.73	0.14	9.96	18.99	46.00	-27.01	Average	LINE
5	0.95	15.73	9.69	0.23	9.97	35.62	56.00	-20.38	QP	LINE
6	0.95	8.69	9.69	0.23	9.97	28.58	46.00	-17.42	Average	LINE
7	1.65	4.38	9.60	0.26	9.99	24.23	56.00	-31.77	QP	LINE
8	1.65	-2.19	9.60	0.26	9.99	17.66	46.00	-28.34	Average	LINE
9	2.78	1.81	9.64	0.26	10.00	21.71	56.00	-34.29	QP	LINE
10	2.78	-6.31	9.64	0.26	10.00	13.59	46.00	-32.41	Average	LINE
11	3.96	-2.16	9.78	0.27	10.01	17.90	56.00	-38.10	QP	LINE
12	3.96	-9.30	9.78	0.27	10.01	10.76	46.00	-35.24	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.

TR-4-E-010 Conducted Emission Test Result

Test Site

: DDT 6# Shield Room

Test Date

: 2024-05-24

EUT

: BLUETOOTH HEADSET

Power Supply

: AC 120V/60Hz

Condition

: Temp:21.8°C,Humi:51.9%

D:\2024 Report Date\Q24020411-2E\0524

CE.EM6

Tested By

: Antony Zeng

Model Number

: WAVE BEAM 2

Test Mode

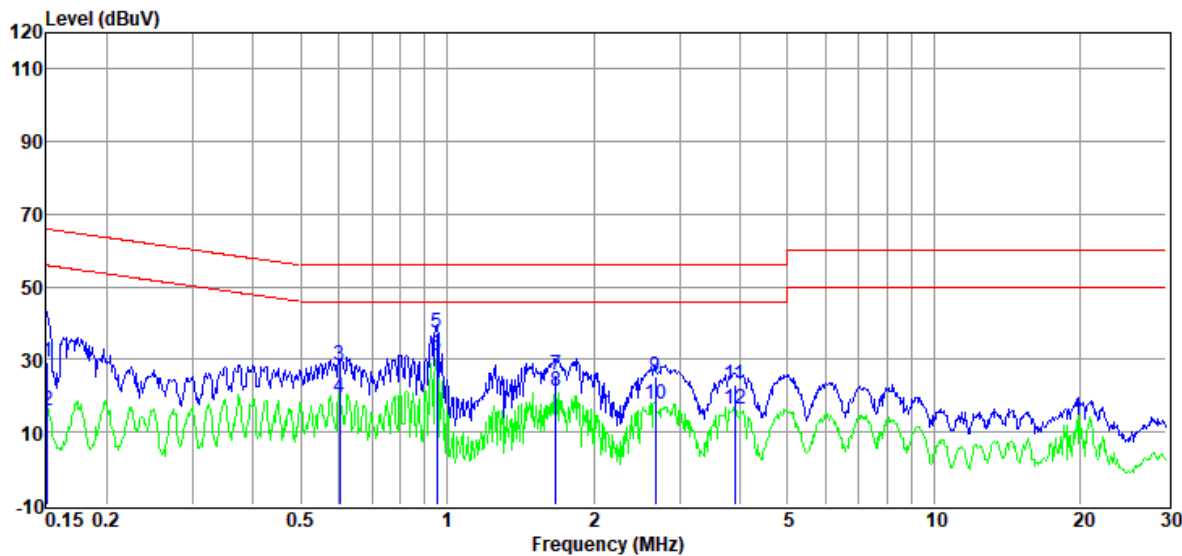
: Tx mode

LISN

: 2023 ENV 216 3#/NEUTRAL

Memo :

Data: 8



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	9.34	9.81	0.10	9.94	29.19	65.96	-36.77	QP	NEUTRAL
2	0.15	-4.04	9.81	0.10	9.94	15.81	55.96	-40.15	Average	NEUTRAL
3	0.60	8.54	9.75	0.14	9.96	28.39	56.00	-27.61	QP	NEUTRAL
4	0.60	-0.41	9.75	0.14	9.96	19.44	46.00	-26.56	Average	NEUTRAL
5	0.95	17.49	9.87	0.24	9.97	37.57	56.00	-18.43	QP	NEUTRAL
6	0.95	11.11	9.87	0.24	9.97	31.19	46.00	-14.81	Average	NEUTRAL
7	1.67	5.44	10.01	0.26	9.99	25.70	56.00	-30.30	QP	NEUTRAL
8	1.67	1.21	10.01	0.26	9.99	21.47	46.00	-24.53	Average	NEUTRAL
9	2.68	5.19	9.64	0.26	10.00	25.09	56.00	-30.91	QP	NEUTRAL
10	2.68	-2.41	9.64	0.26	10.00	17.49	46.00	-28.51	Average	NEUTRAL
11	3.90	3.44	9.50	0.27	10.01	23.22	56.00	-32.78	QP	NEUTRAL
12	3.90	-3.62	9.50	0.27	10.01	16.16	46.00	-29.84	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.

16. Photos of the EUT

Please refer to DDT-Q24020411-1E appendix I

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