

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-02-10

Tested By:

Guoyuan Lin

EUT:

Multi-Channel Soundbar with wireless subwoofer

Model Number:

BAR 500MK2

Test Mode:

ANT1 11G 2462 MHz TX

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.8°C;Humi:47.2%

Test Site:

DDT 3# Chamber

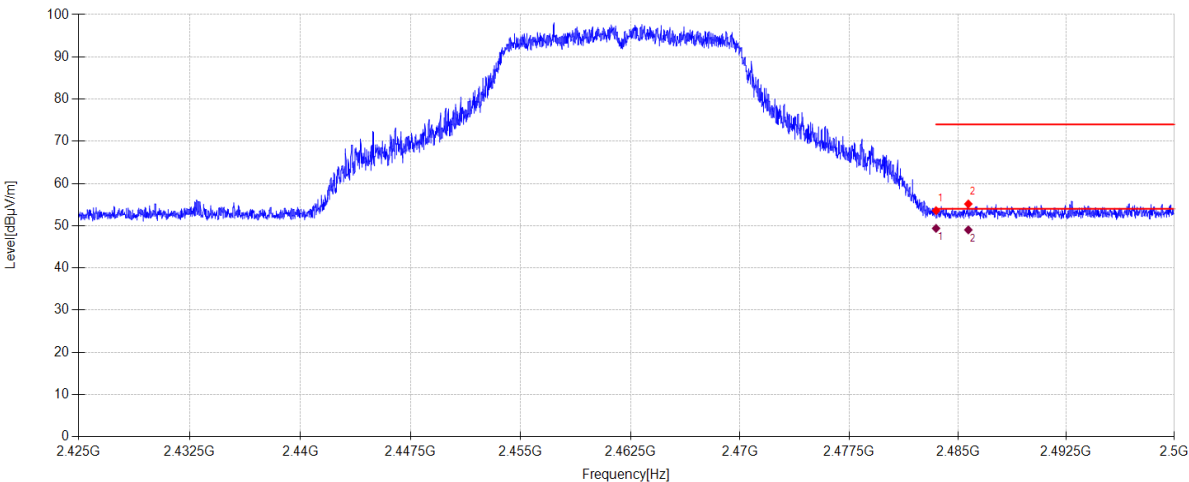
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Memo:

Sample Number: S24111413-008

Test Graph



Data List										
NO.	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	22.42	27.53	3.62	0.00	53.57	74.00	20.43	PK	Vertical
2	2485.728	24.00	27.54	3.62	0.00	55.16	74.00	18.84	PK	Vertical

Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	
1	2483.500	18.23	27.53	3.62	49.38	54.00	4.62	AV	Vertical	
2	2485.728	17.86	27.54	3.62	49.02	54.00	4.98	AV	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:

2025-02-10

Tested By:

Guoyuan Lin

EUT:

Multi-Channel Soundbar with wireless subwoofer

Model Number:

BAR 500MK2

Test Mode:

ANT2 11G 2462 MHz TX

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.8°C;Humi:47.2%

Test Site:

DDT 3# Chamber

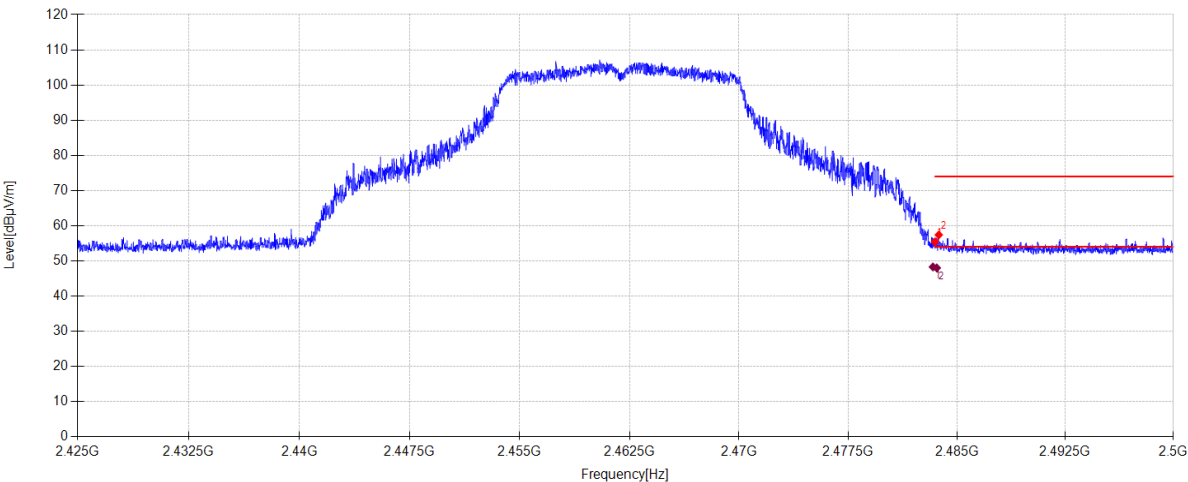
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Memo:

Sample Number: S24111413-008

Test Graph



Data List										
NO.	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	24.29	27.53	3.62	0.00	55.44	74.00	18.56	PK	Horizontal
2	2483.755	26.23	27.54	3.62	0.00	57.39	74.00	16.61	PK	Horizontal

Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	
1	2483.353	17.14	27.53	3.62	48.29	54.00	5.71	AV	Horizontal	
2	2483.613	16.85	27.54	3.62	48.01	54.00	5.99	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:

2025-02-10

Tested By:

Guoyuan Lin

EUT:

Multi-Channel Soundbar with wireless subwoofer

Model Number:

BAR 500MK2

Test Mode:

ANT2 11G 2462 MHz TX

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.8°C;Humi:47.2%

Test Site:

DDT 3# Chamber

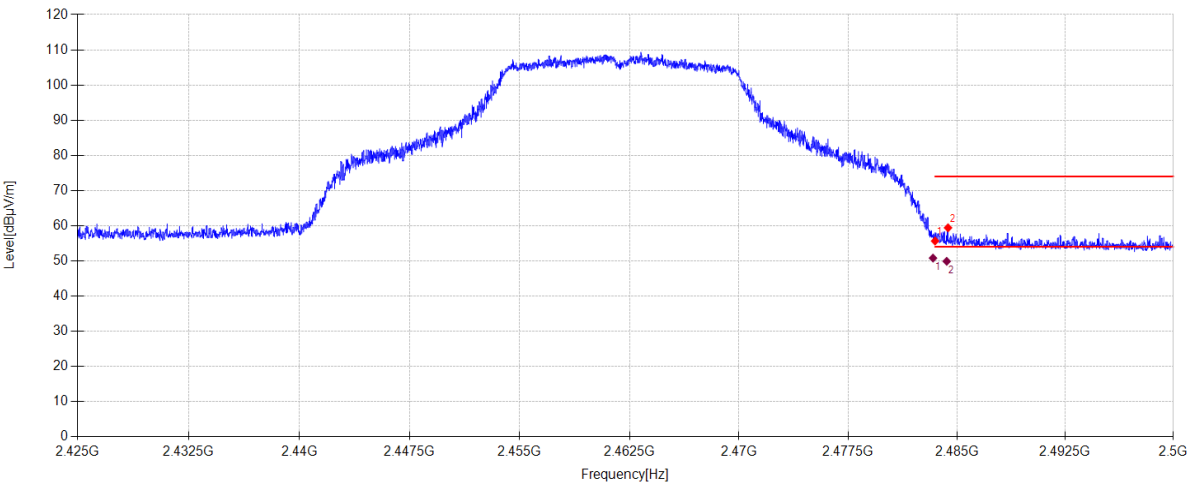
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Memo:

Sample Number: S24111413-008

Test Graph



Data List										
NO.	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	24.51	27.53	3.62	0.00	55.66	74.00	18.34	PK	Vertical
2	2484.393	28.25	27.54	3.62	0.00	59.41	74.00	14.59	PK	Vertical

Data List									
NO .	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.357	19.65	27.53	3.62	50.80	54.00	3.20	AV	Vertical
2	2484.303	18.73	27.54	3.62	49.89	54.00	4.11	AV	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:

2025-02-10

Tested By:

Guoyuan Lin

EUT:

Multi-Channel Soundbar with wireless subwoofer

Model Number:

BAR 500MK2

Test Mode:

11N20 MIMO 2412 MHz TX

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.8°C;Humi:47.2%

Test Site:

DDT 3# Chamber

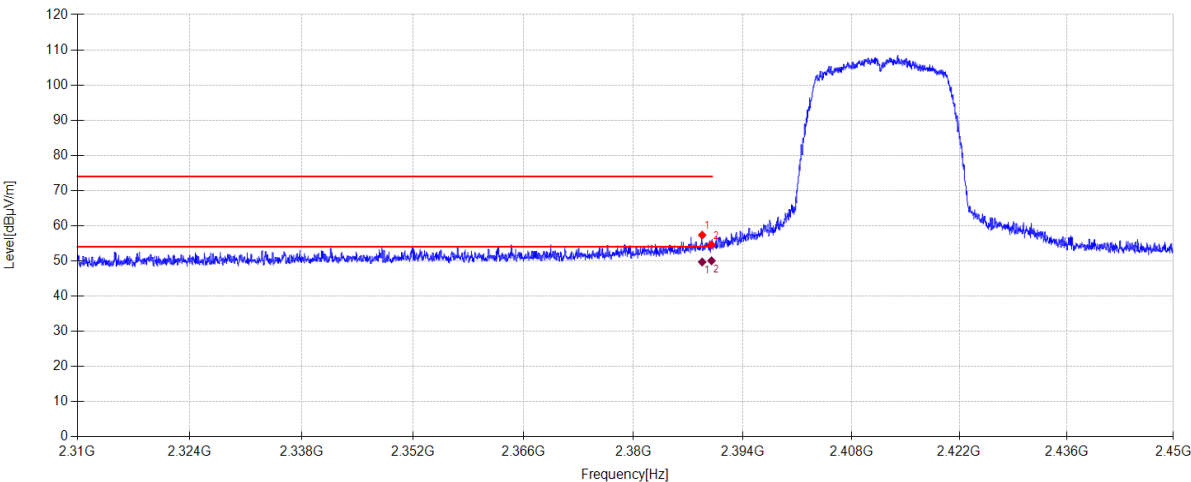
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Memo:

Sample Number: S24111413-008

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2388.806	26.51	27.26	3.57	0.00	57.34	74.00	16.66	PK	Horizontal
2	2390.000	23.76	27.26	3.57	0.00	54.59	74.00	19.41	PK	Horizontal

Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	
1	2388.806	18.86	27.26	3.57	49.69	54.00	4.31	AV	Horizontal	
2	2390.000	19.20	27.26	3.57	50.03	54.00	3.97	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:

2025-02-10

Tested By:

Guoyuan Lin

EUT:

Multi-Channel Soundbar with wireless subwoofer

Model Number:

BAR 500MK2

Test Mode:

11N20 MIMO 2412 MHz TX

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.8°C;Humi:47.2%

Test Site:

DDT 3# Chamber

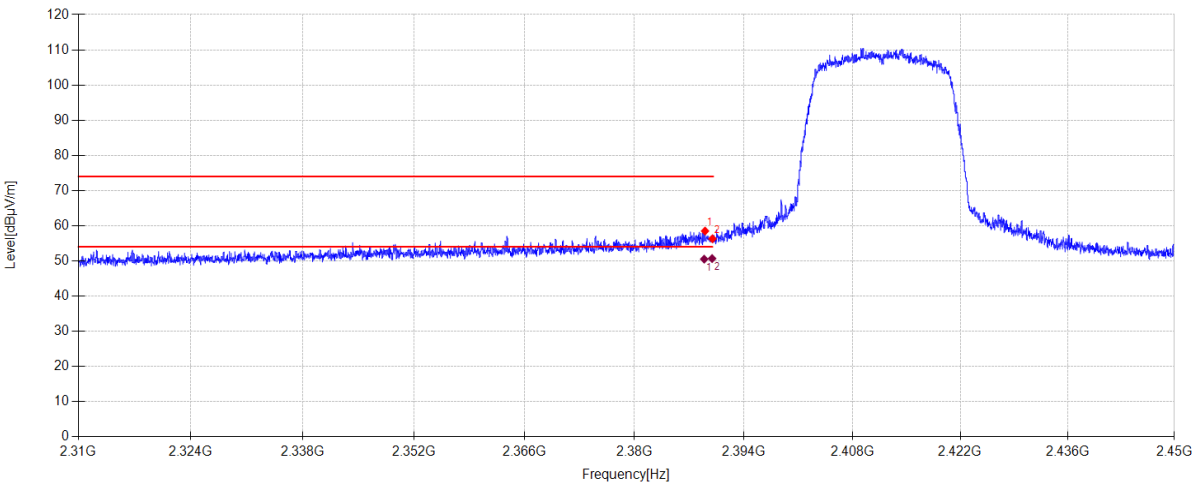
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Memo:

Sample Number: S24111413-008

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2389.044	27.67	27.26	3.57	0.00	58.50	74.00	15.50	PK	Vertical
2	2390.000	25.46	27.26	3.57	0.00	56.29	74.00	17.71	PK	Vertical

Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	
1	2388.933	19.67	27.26	3.57	50.50	54.00	3.50	AV	Vertical	
2	2389.946	19.84	27.26	3.57	50.67	54.00	3.33	AV	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:

2025-02-11

Tested By:

Guoyuan Lin

EUT:

Multi-Channel Soundbar with wireless subwoofer

Model Number:

BAR 500MK2

Test Mode:

11N20 MIMO 2462 MHz TX

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.8°C;Humi:47.2%

Test Site:

DDT 3# Chamber

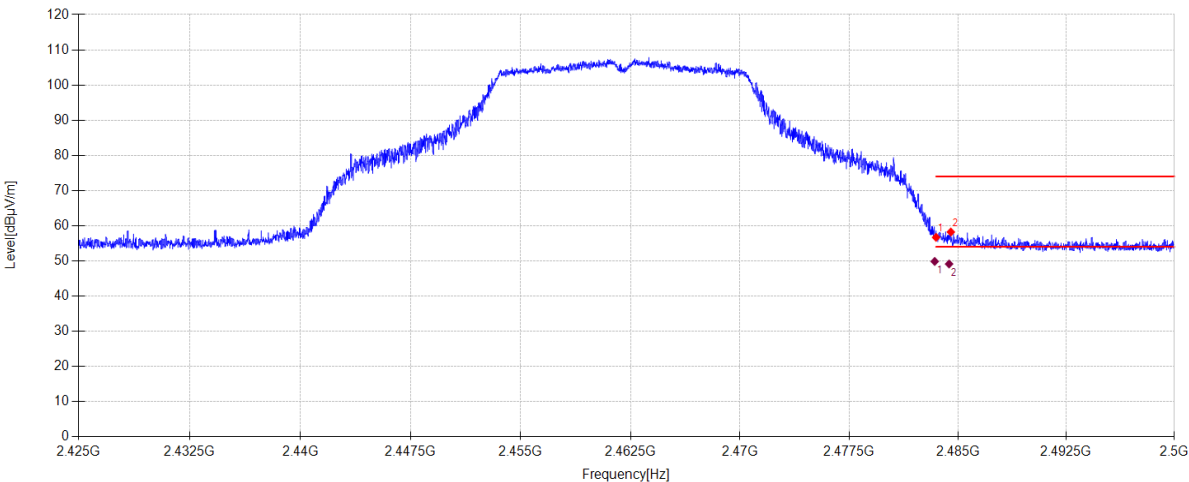
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Memo:

Sample Number: S24111413-008

Test Graph



Data List										
NO.	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	25.54	27.53	3.62	0.00	56.69	74.00	17.31	PK	Horizontal
2	2484.520	27.05	27.54	3.62	0.00	58.21	74.00	15.79	PK	Horizontal

Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	
1	2483.405	18.70	27.53	3.62	49.85	54.00	4.15	AV	Horizontal	
2	2484.400	17.97	27.54	3.62	49.13	54.00	4.87	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:

2025-02-11

Tested By:

Guoyuan Lin

EUT:

Multi-Channel Soundbar with wireless subwoofer

Model Number:

BAR 500MK2

Test Mode:

11N20 MIMO 2462 MHz TX

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.8°C;Humi:47.2%

Test Site:

DDT 3# Chamber

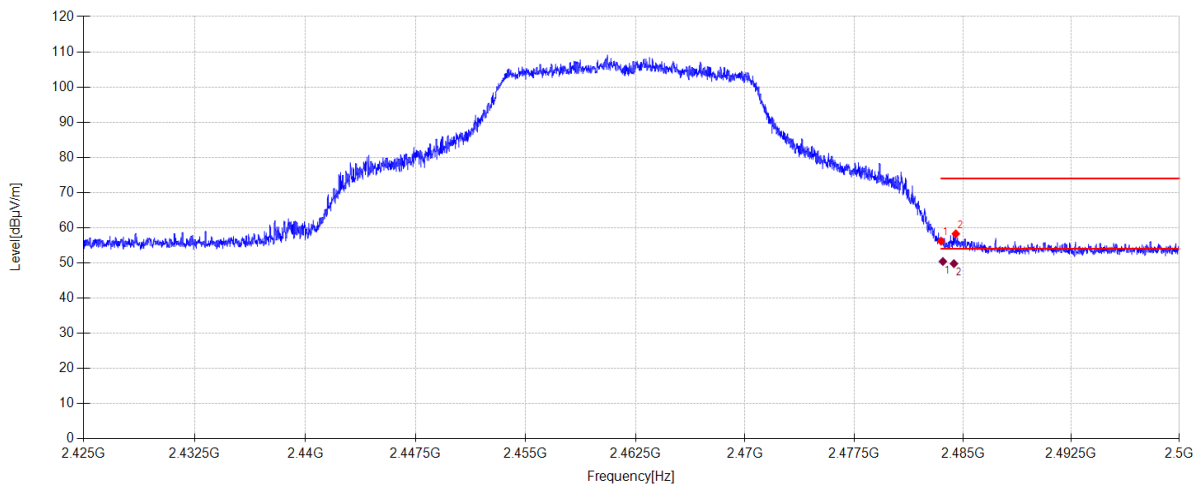
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Memo:

Sample Number: S24111413-008

Test Graph



Data List										
NO	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	25.04	27.53	3.62	0.00	56.19	74.00	17.81	PK	Vertical
2	2484.520	27.11	27.54	3.62	0.00	58.27	74.00	15.73	PK	Vertical

Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	
1	2483.628	19.25	27.53	3.62	50.40	54.00	3.60	AV	Vertical	
2	2484.385	18.63	27.54	3.62	49.79	54.00	4.21	AV	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:

2025-02-10

Tested By:

Guoyuan Lin

EUT:

Multi-Channel Soundbar with wireless subwoofer

Model Number:

BAR 500MK2

Test Mode:

11N40 MIMO 2422 MHz TX

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.8°C;Humi:47.2%

Test Site:

DDT 3# Chamber

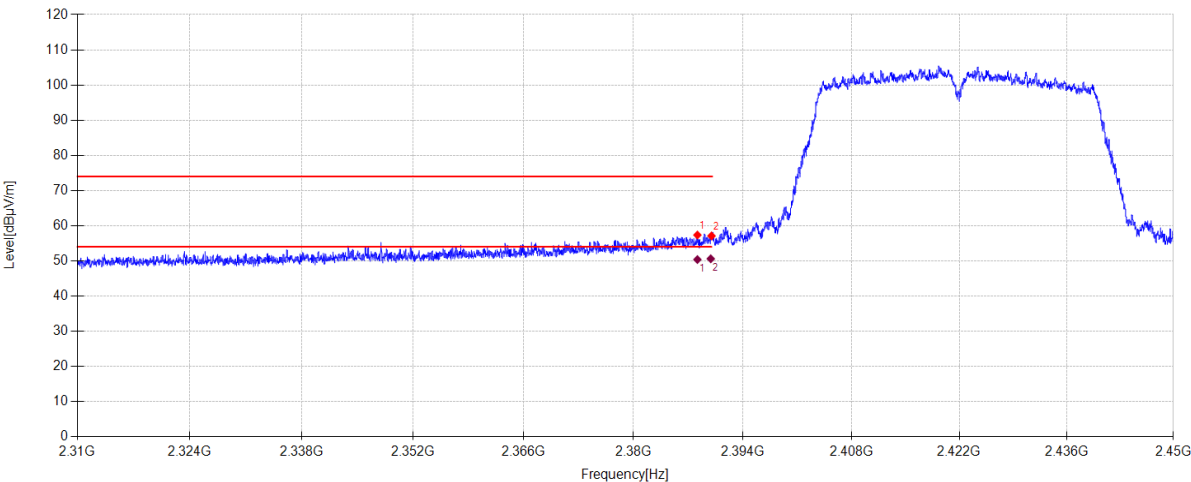
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Memo:

Sample Number: S24111413-008

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2388.190	26.54	27.25	3.57	0.00	57.36	74.00	16.64	PK	Vertical
2	2390.000	26.27	27.26	3.57	0.00	57.10	74.00	16.90	PK	Vertical

Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	
1	2388.190	19.56	27.25	3.57	50.38	54.00	3.62	AV	Vertical	
2	2389.906	19.78	27.26	3.57	50.61	54.00	3.39	AV	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:

2025-02-10

Tested By:

Guoyuan Lin

EUT:

Multi-Channel Soundbar with wireless subwoofer

Model Number:

BAR 500MK2

Test Mode:

11N40 MIMO 2422 MHz TX

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.8°C;Humi:47.2%

Test Site:

DDT 3# Chamber

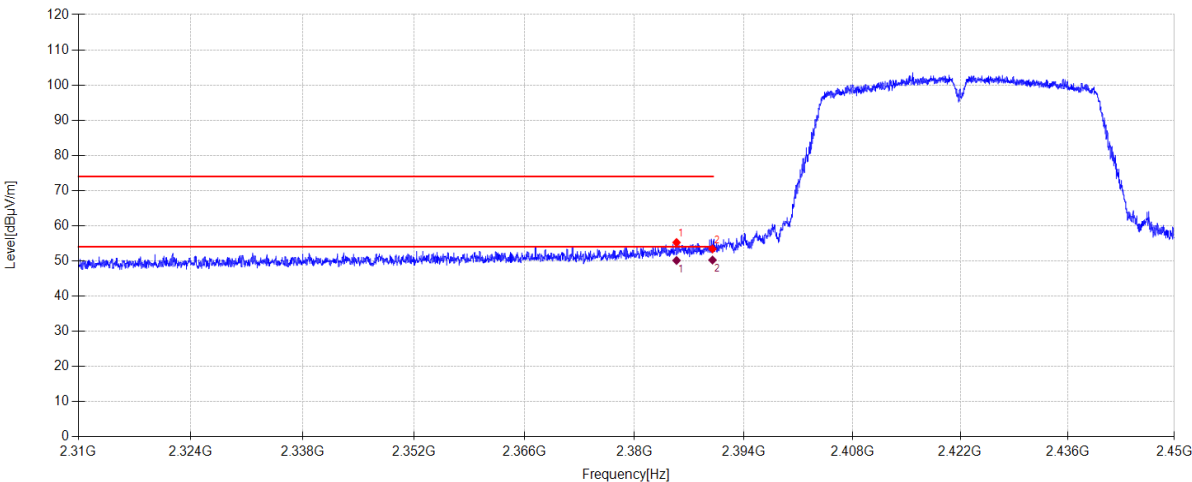
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Memo:

Sample Number: S24111413-008

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2385.390	24.43	27.24	3.57	0.00	55.24	74.00	18.76	PK	Horizontal
2	2390.000	22.57	27.26	3.57	0.00	53.40	74.00	20.60	PK	Horizontal

Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	
1	2385.390	19.32	27.24	3.57	50.13	54.00	3.87	AV	Horizontal	
2	2390.000	19.42	27.26	3.57	50.25	54.00	3.75	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:

2025-02-10

Tested By:

Guoyuan Lin

EUT:

Multi-Channel Soundbar with wireless subwoofer

Model Number:

BAR 500MK2

Test Mode:

11N40 MIMO 2452 MHz TX

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.8°C;Humi:47.2%

Test Site:

DDT 3# Chamber

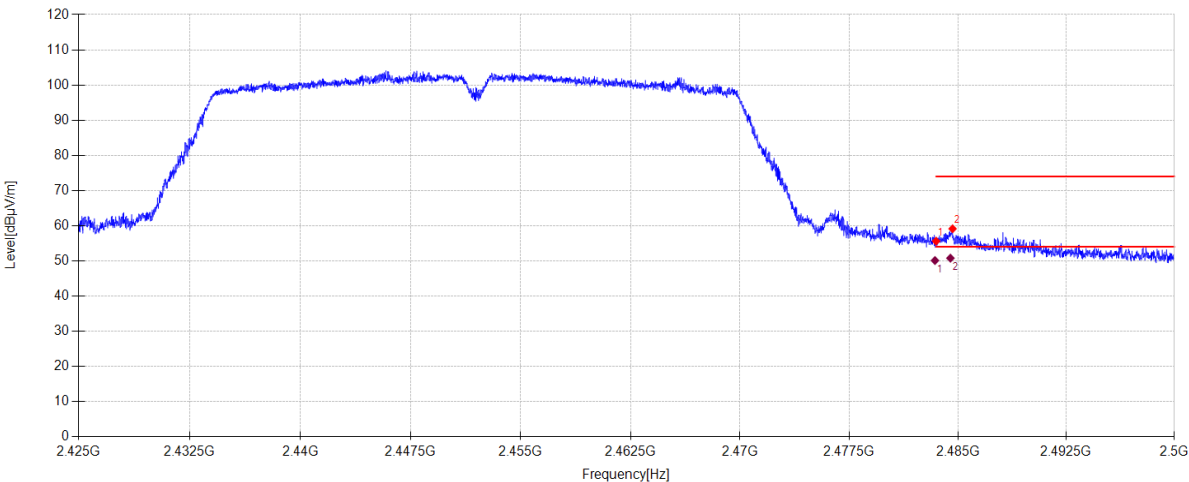
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Memo:

Sample Number: S24111413-008

Test Graph



Data List										
NO.	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	24.47	27.53	3.62	0.00	55.62	74.00	18.38	PK	Horizontal
2	2484.640	27.97	27.54	3.62	0.00	59.13	74.00	14.87	PK	Horizontal

Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	
1	2483.424	18.96	27.53	3.62	50.11	54.00	3.89	AV	Horizontal	
2	2484.493	19.62	27.54	3.62	50.78	54.00	3.22	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:

2025-02-10

Tested By:

Guoyuan Lin

EUT:

Multi-Channel Soundbar with wireless subwoofer

Model Number:

BAR 500MK2

Test Mode:

11N40 MIMO 2452 MHz TX

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.8°C;Humi:47.2%

Test Site:

DDT 3# Chamber

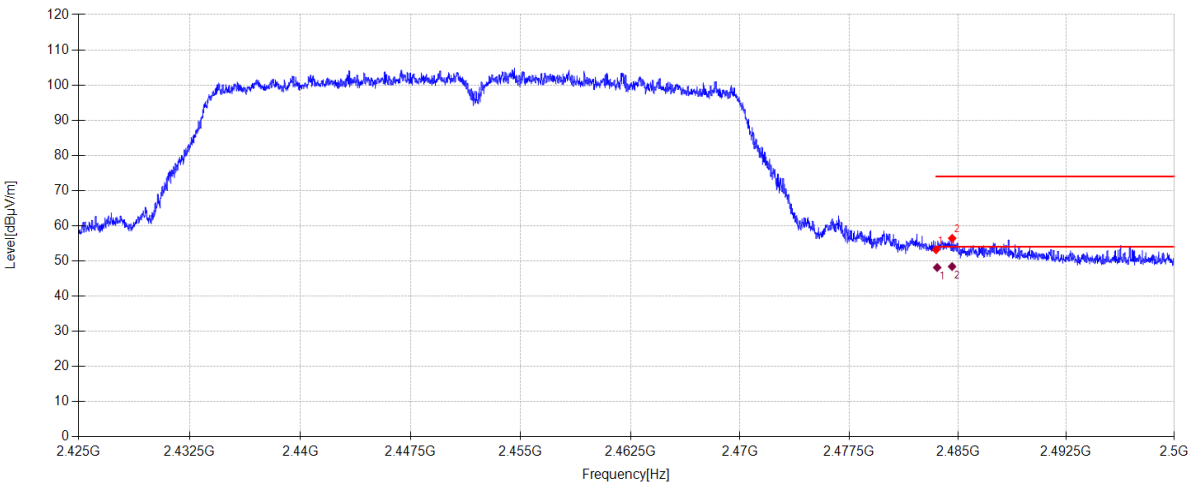
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Memo:

Sample Number: S24111413-008

Test Graph



Data List										
NO.	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	22.03	27.53	3.62	0.00	53.18	74.00	20.82	PK	Vertical
2	2484.610	25.25	27.54	3.62	0.00	56.41	74.00	17.59	PK	Vertical

Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	
1	2483.576	16.96	27.53	3.62	48.11	54.00	5.89	AV	Vertical	
2	2484.610	17.23	27.54	3.62	48.39	54.00	5.61	AV	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:

2024-11-19

Tested By:

Guoyuan Lin

EUT:

Multi-Channel Soundbar with wireless subwoofer

Model Number:

BAR 500MK2

Test Mode:

11AX20 MIMO 2412 MHz TX

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.8°C;Humi:47.2%

Test Site:

DDT 3# Chamber

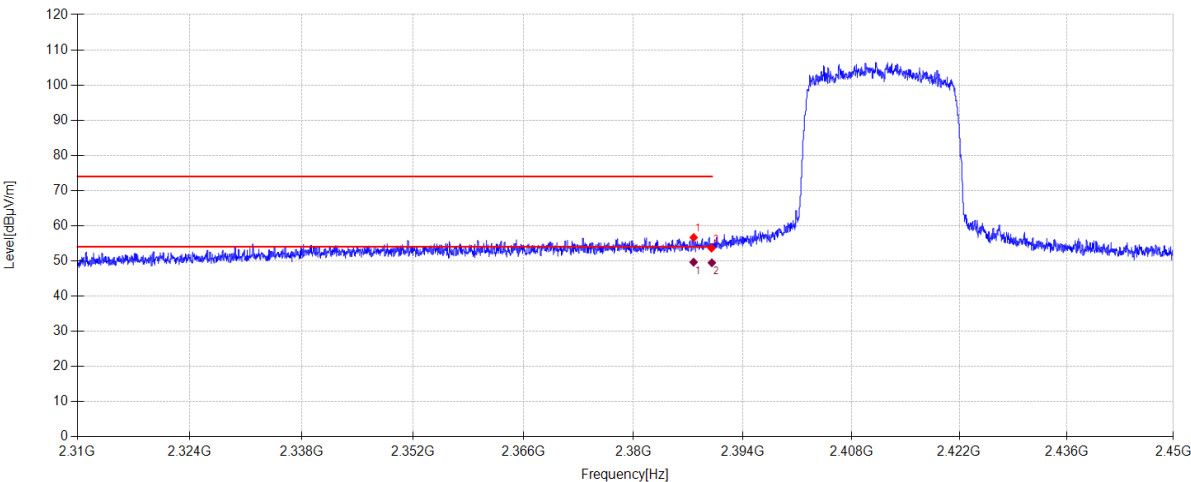
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Memo:

Sample Number: S24111413-008

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2387.714	25.84	27.25	3.57	0.00	56.66	74.00	17.34	PK	Horizontal
2	2390.000	22.80	27.26	3.57	0.00	53.63	74.00	20.37	PK	Horizontal

Data List									
NO .	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2387.703	18.82	27.25	3.57	49.64	54.00	4.36	AV	Horizontal
2	2390.046	18.63	27.26	3.57	49.46	54.00	4.54	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:

2024-11-19

Tested By:

Guoyuan Lin

EUT:

Multi-Channel Soundbar with wireless subwoofer

Model Number:

BAR 500MK2

Test Mode:

11AX20 MIMO 2412 MHz TX

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.8°C;Humi:47.2%

Test Site:

DDT 3# Chamber

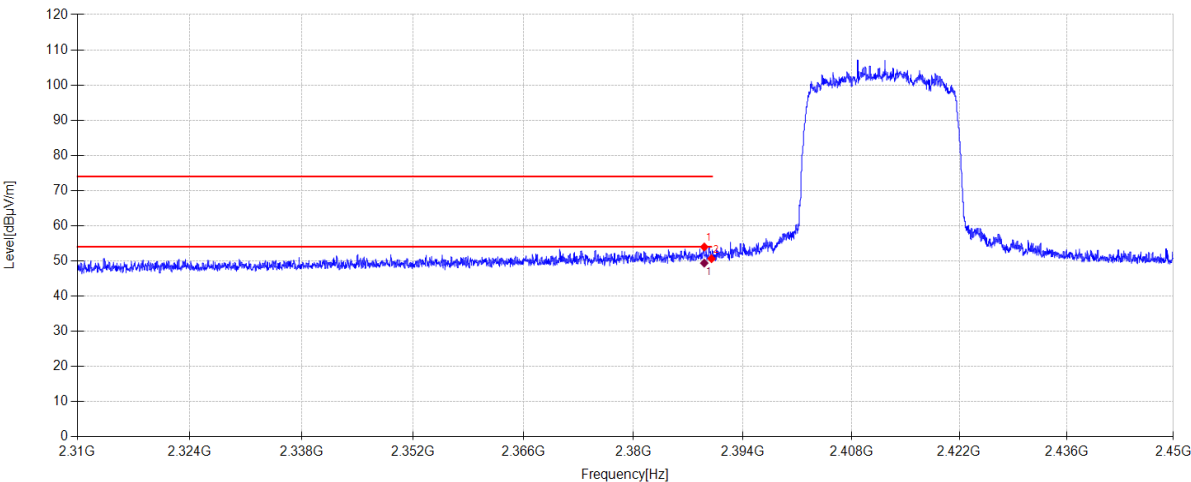
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Memo:

Sample Number: S24111413-008

Test Graph



Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2389.072	23.13	27.26	3.57	0.00	53.96	74.00	20.04	PK	Vertical
2	2390.000	19.80	27.26	3.57	0.00	50.63	74.00	23.37	PK	Vertical

Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	
1	2389.072	18.54	27.26	3.57	49.37	54.00	4.63	AV	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:

2024-11-19

Tested By:

Guoyuan Lin

EUT:

Multi-Channel Soundbar with wireless subwoofer

Model Number:

BAR 500MK2

Test Mode:

11AX20 MIMO 2462 MHz TX

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.8°C;Humi:47.2%

Test Site:

DDT 3# Chamber

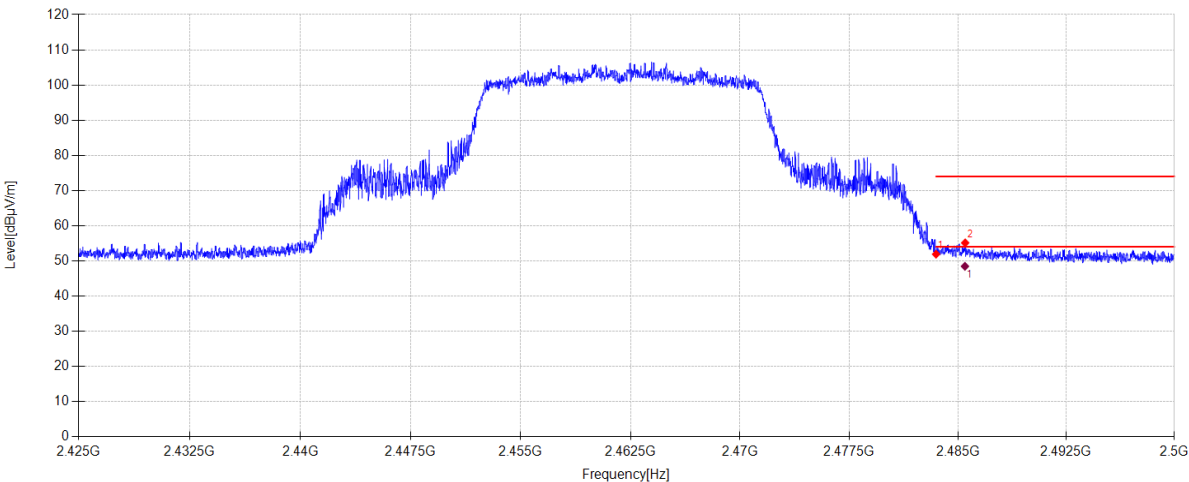
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Memo:

Sample Number: S24111413-008

Test Graph



Data List										
NO	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	20.76	27.53	3.62	0.00	51.91	74.00	22.09	PK	Horizontal
2	2485.510	23.96	27.54	3.62	0.00	55.12	74.00	18.88	PK	Horizontal

Data List									
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2485.494	17.31	27.54	3.62	48.47	54.00	5.53	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:

2024-11-19

Tested By:

Guoyuan Lin

EUT:

Multi-Channel Soundbar with wireless subwoofer

Model Number:

BAR 500MK2

Test Mode:

11AX20 MIMO 2462 MHz TX

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.8°C;Humi:47.2%

Test Site:

DDT 3# Chamber

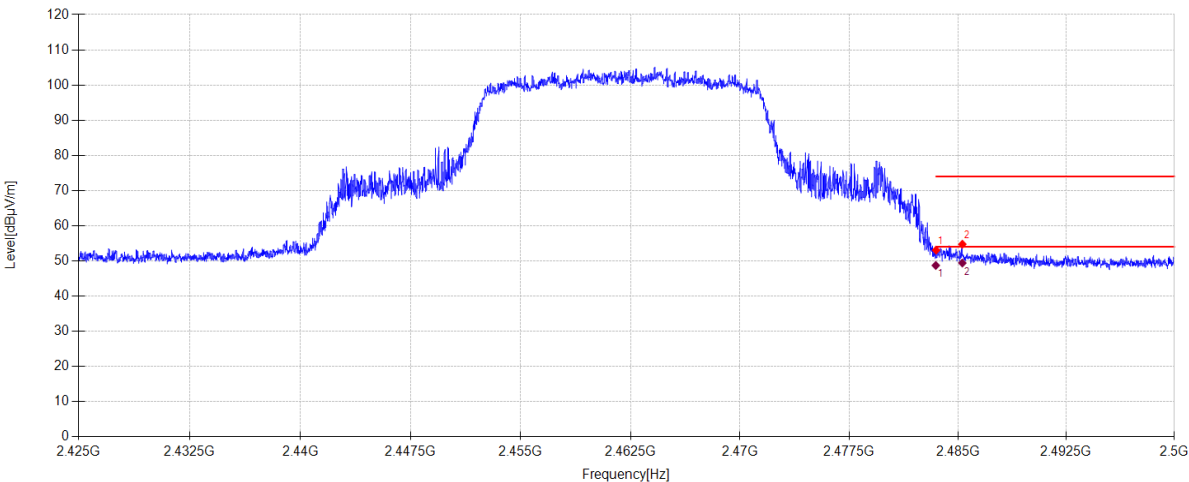
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Memo:

Sample Number: S24111413-008

Test Graph



Data List										
NO	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	21.91	27.53	3.62	0.00	53.06	74.00	20.94	PK	Vertical
2	2485.315	23.59	27.54	3.62	0.00	54.75	74.00	19.25	PK	Vertical

Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	
1	2483.480	17.56	27.53	3.62	48.71	54.00	5.29	AV	Vertical	
2	2485.315	18.24	27.54	3.62	49.40	54.00	4.60	AV	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:

2024-11-19

Tested By:

Guoyuan Lin

EUT:

Multi-Channel Soundbar with wireless subwoofer

Model Number:

BAR 500MK2

Test Mode:

11AX40 MIMO 2422 MHz TX

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.8°C;Humi:47.2%

Test Site:

DDT 3# Chamber

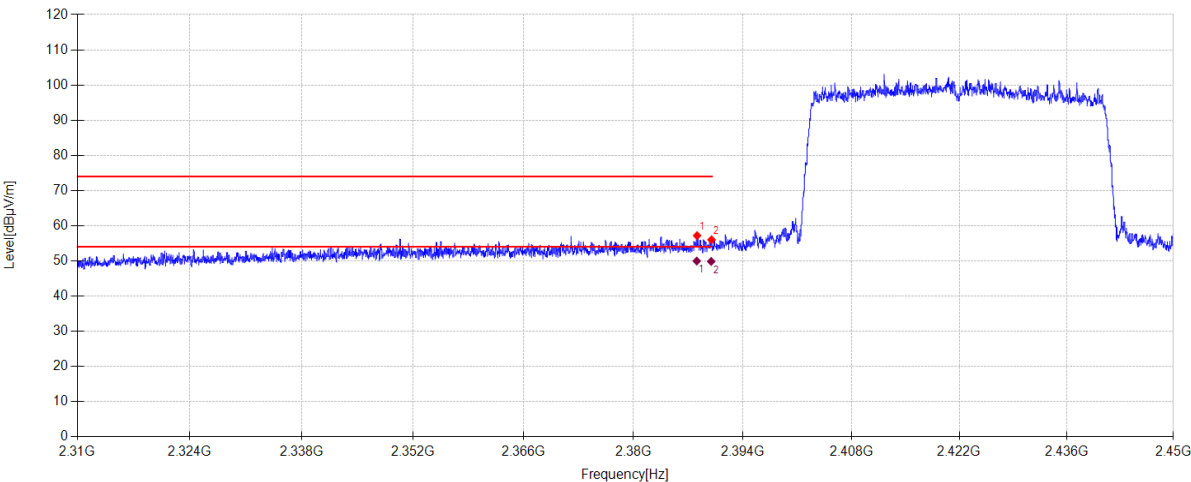
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d:\ts\2024 report data\BAR500\FCC RE Above 1G 2.4G\47

Memo:

Sample Number: S24111413-008

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2388.148	26.38	27.25	3.57	0.00	57.20	74.00	16.80	PK	Horizontal
2	2390.000	25.17	27.26	3.57	0.00	56.00	74.00	18.00	PK	Horizontal

Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	
1	2388.109	19.14	27.25	3.57	49.96	54.00	4.04	AV	Horizontal	
2	2389.964	19.02	27.26	3.57	49.85	54.00	4.15	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:

2024-11-19

Tested By:

Guoyuan Lin

EUT:

Multi-Channel Soundbar with wireless subwoofer

Model Number:

BAR 500MK2

Test Mode:

11AX40 MIMO 2422 MHz TX

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.8°C;Humi:47.2%

Test Site:

DDT 3# Chamber

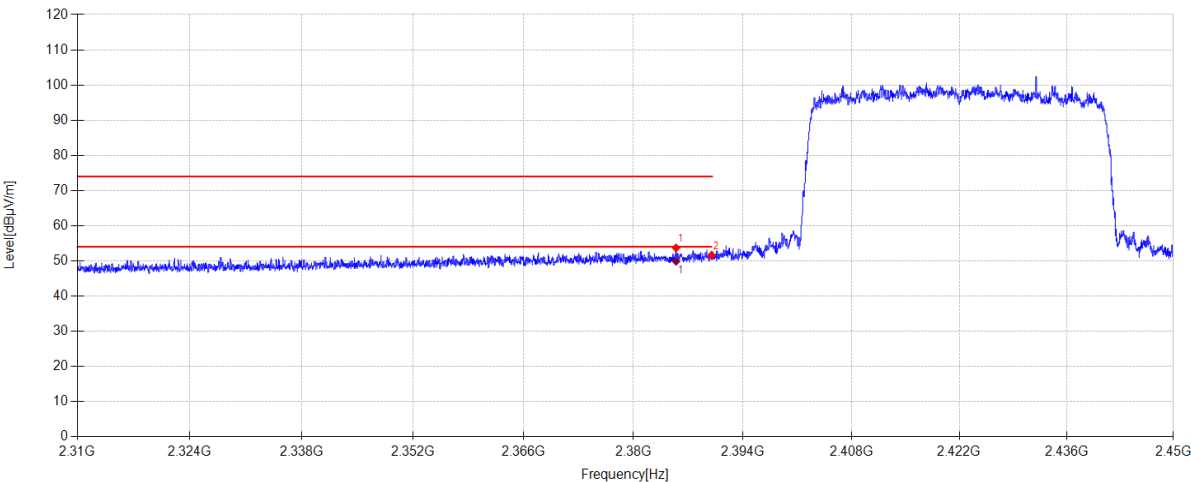
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Memo:

Sample Number: S24111413-008

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2385.460	22.88	27.24	3.57	0.00	53.69	74.00	20.31	PK	Vertical
2	2390.000	20.76	27.26	3.57	0.00	51.59	74.00	22.41	PK	Vertical

Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	
1	2385.460	19.08	27.24	3.57	49.89	54.00	4.11	AV	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:

2024-11-19

Tested By:

Guoyuan Lin

EUT:

Multi-Channel Soundbar with wireless subwoofer

Model Number:

BAR 500MK2

Test Mode:

11AX40 MIMO 2452 MHz TX

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.8°C;Humi:47.2%

Test Site:

DDT 3# Chamber

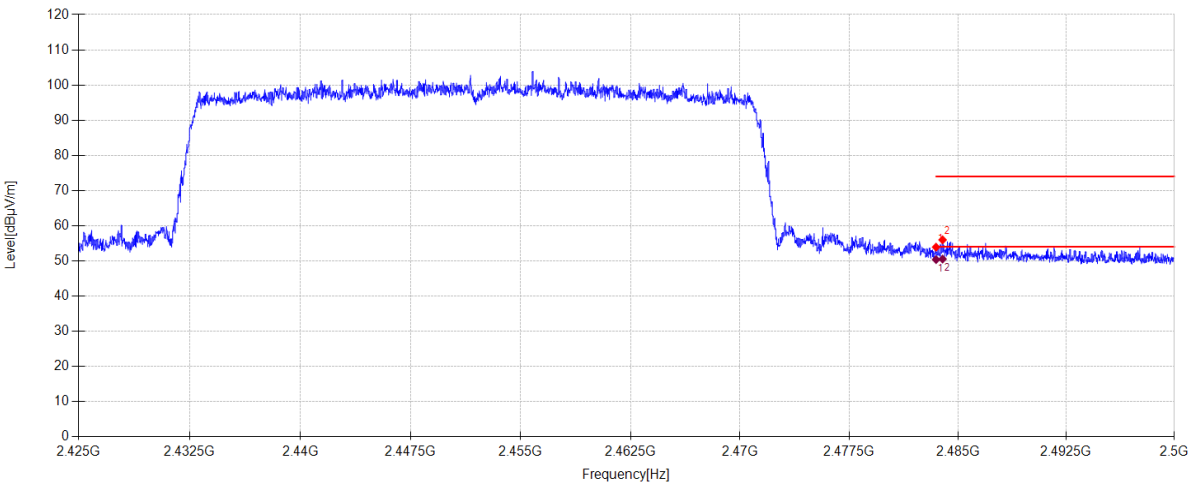
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Memo:

Sample Number: S24111413-008

Test Graph



Data List										
NO.	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	22.76	27.53	3.62	0.00	53.91	74.00	20.09	PK	Horizontal
2	2483.950	24.83	27.54	3.62	0.00	55.99	74.00	18.01	PK	Horizontal

Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	
1	2483.500	19.23	27.53	3.62	50.38	54.00	3.62	AV	Horizontal	
2	2483.951	19.37	27.54	3.62	50.53	54.00	3.47	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:

2024-11-19

Tested By:

Guoyuan Lin

EUT:

Multi-Channel Soundbar with wireless subwoofer

Model Number:

BAR 500MK2

Test Mode:

11AX40 MIMO 2452 MHz TX

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.8°C;Humi:47.2%

Test Site:

DDT 3# Chamber

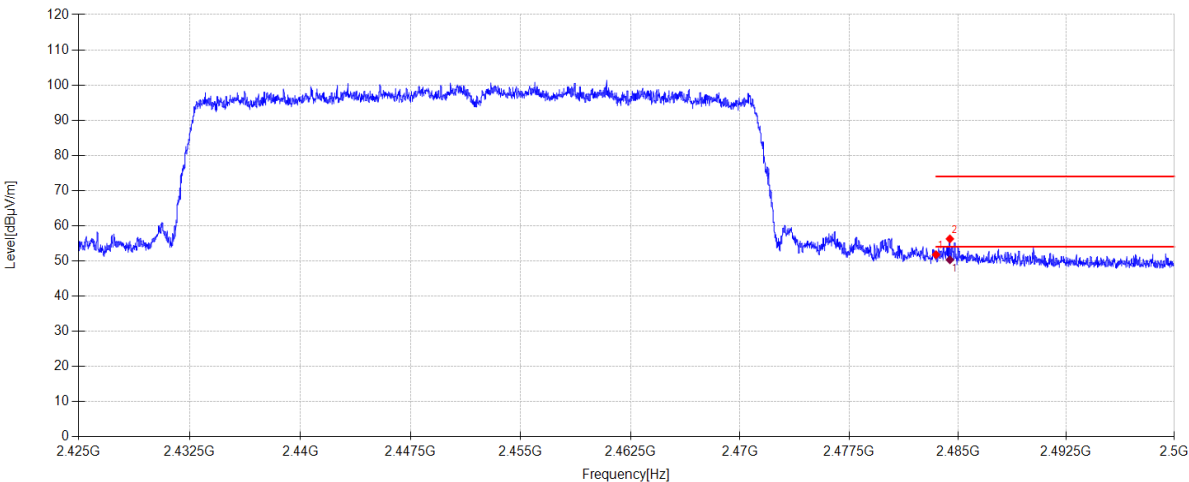
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Memo:

Sample Number: S24111413-008

Test Graph



Data List										
NO.	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	20.62	27.53	3.62	0.00	51.77	74.00	22.23	PK	Vertical
2	2484.453	25.10	27.54	3.62	0.00	56.26	74.00	17.74	PK	Vertical

Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	
1	2484.453	19.16	27.54	3.62	50.32	54.00	3.68	AV	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:

2024-11-21

Tested By:

Guoyuan Lin

EUT:

Multi-Channel Soundbar with wireless subwoofer

Model Number:

BAR 500MK2

Test Mode:

11AX20 MIMO RU0 2412 MHz TX

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.8°C;Humi:47.2%

Test Site:

DDT 3# Chamber

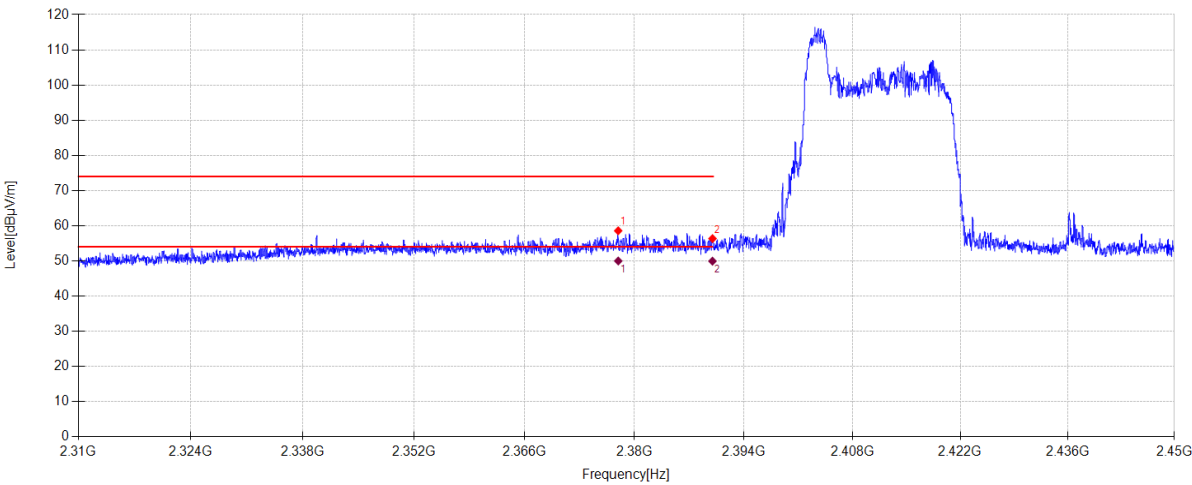
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Memo:

Sample Number: S24111413-008

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2377.928	27.79	27.21	3.56	0.00	58.56	74.00	15.44	PK	Horizontal
2	2390.000	25.51	27.26	3.57	0.00	56.34	74.00	17.66	PK	Horizontal

Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	
1	2377.935	19.21	27.21	3.56	49.98	54.00	4.02	AV	Horizontal	
2	2389.996	19.10	27.26	3.57	49.93	54.00	4.07	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:

2024-11-21

Tested By:

Guoyuan Lin

EUT:

Multi-Channel Soundbar with wireless subwoofer

Model Number:

BAR 500MK2

Test Mode:

11AX20 MIMO RU0 2412 MHz TX

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.8°C;Humi:47.2%

Test Site:

DDT 3# Chamber

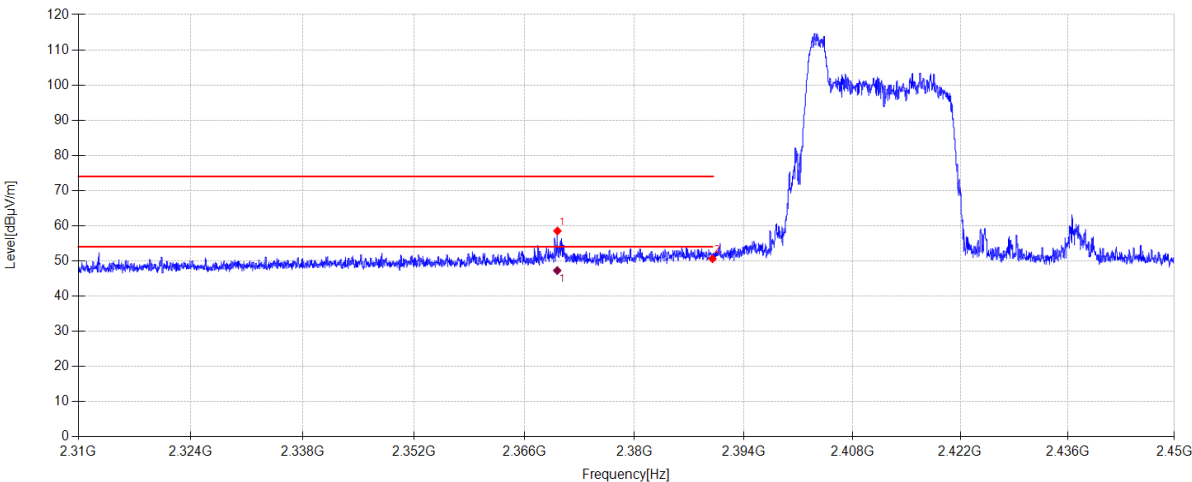
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Memo:

Sample Number: S24111413-008

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2370.186	27.77	27.18	3.56	0.00	58.51	74.00	15.49	PK	Vertical
2	2390.000	19.77	27.26	3.57	0.00	50.60	74.00	23.40	PK	Vertical

Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	
1	2370.156	16.53	27.18	3.56	47.27	54.00	6.73	AV	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:

2024-11-21

Tested By:

Guoyuan Lin

EUT:

Multi-Channel Soundbar with wireless subwoofer

Model Number:

BAR 500MK2

Test Mode:

11AX20 MIMO RU8 2462 MHz TX

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.8°C;Humi:47.2%

Test Site:

DDT 3# Chamber

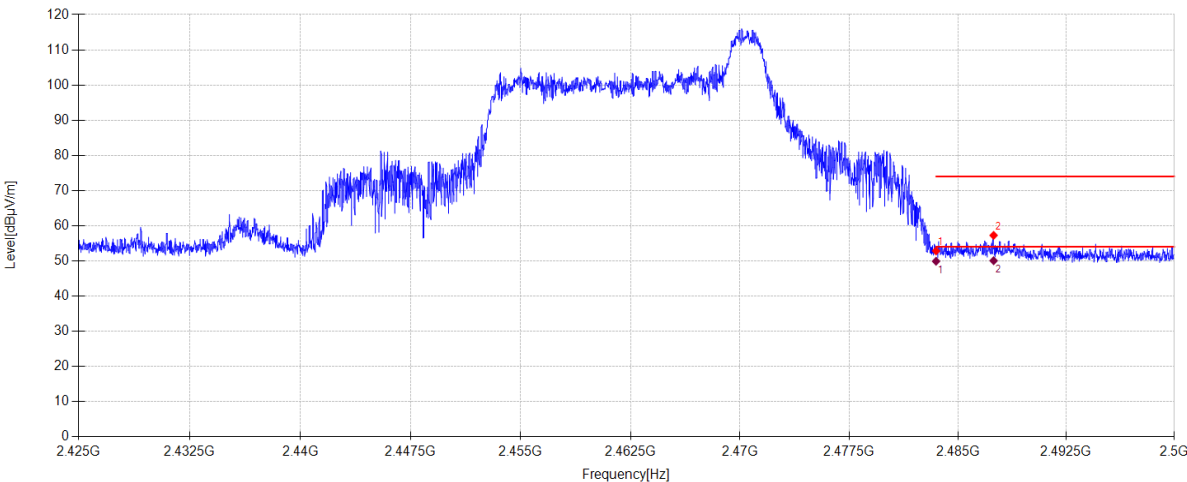
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Memo:

Sample Number: S24111413-008

Test Graph



Data List										
NO	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	21.69	27.53	3.62	0.00	52.84	74.00	21.16	PK	Horizontal
2	2487.475	26.09	27.55	3.62	0.00	57.26	74.00	16.74	PK	Horizontal

Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	
1	2483.500	18.76	27.53	3.62	49.91	54.00	4.09	AV	Horizontal	
2	2487.475	18.89	27.55	3.62	50.06	54.00	3.94	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:

2024-11-21

Tested By:

Guoyuan Lin

EUT:

Multi-Channel Soundbar with wireless subwoofer

Model Number:

BAR 500MK2

Test Mode:

11AX20 MIMO RU8 2462 MHz TX

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.8°C;Humi:47.2%

Test Site:

DDT 3# Chamber

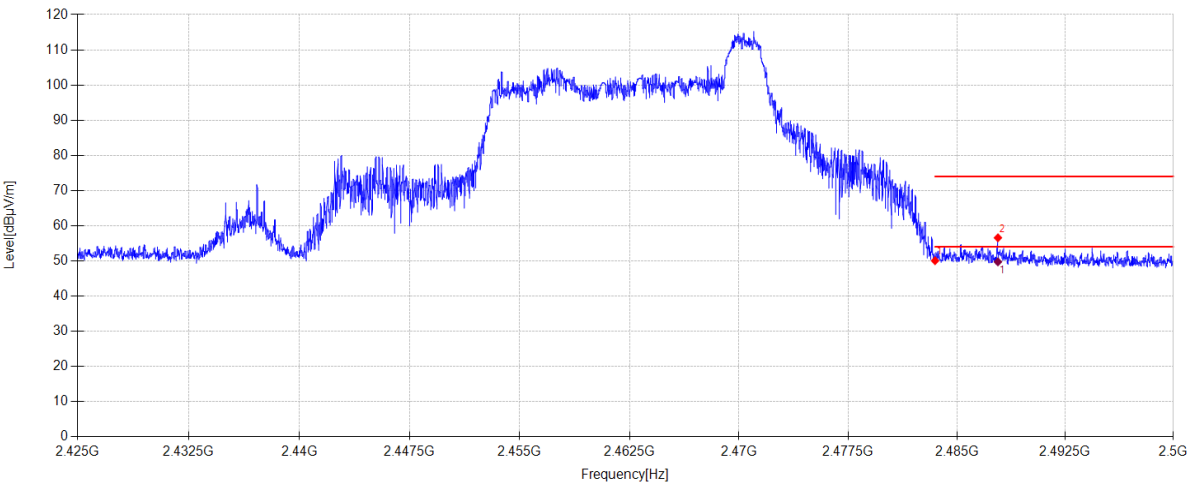
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Memo:

Sample Number: S24111413-008

Test Graph



Data List										
NO	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	18.91	27.53	3.62	0.00	50.06	74.00	23.94	PK	Vertical
2	2487.843	25.40	27.55	3.62	0.00	56.57	74.00	17.43	PK	Vertical

Data List									
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2487.843	18.56	27.55	3.62	49.73	54.00	4.27	AV	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.

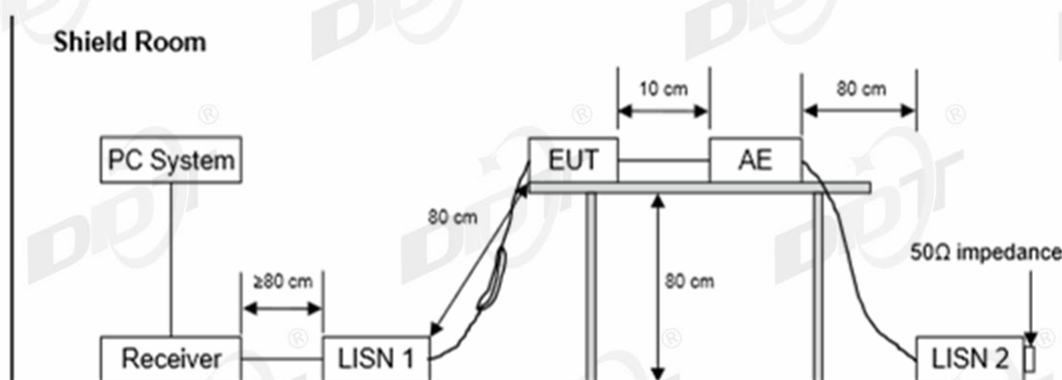
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

14.Power Line Conducted Emissions

14.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
Δ-shaped artificial power network	SCHWARZBEC K	PVDC 8301	DDT-ZC03939	2025/03/31
Two Line V-Network	R&S	ENV216	DDT-ZC02059	2025/07/08
RF Cable	Yuhu Technology	Z806-NJ-NJ-6M	DDT-ZC02004	2025/07/08
Conducted Radiated Software	Audix	E3	DDT-ZC00562	/
Three-phase artificial power network	SCHWARZBEC K	NSLK 8163	DDT-ZC01572	2025/07/08
Pulse Limiter	SCHWARZBEC K	VTSD 9561	DDT-ZC02128	2025/07/08
EMI Test Receiver	R&S	ESCI/E3	DDT-ZC01297	2025/07/08
Two Line V-Network	R&S	ENV216	DDT-ZC02056	2025/07/08

14.2. Block diagram of test setup



14.3. Limits

Frequency	Quasi-Peak Level dB(uV)	Average Level dB(uV)
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
/	/	/	/	/

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

: 2024-12-12

EUT

: Multi-Channel Soundbar with wireless subwoofer

Power Supply

: AC 120V/60Hz

Condition

: Temp:21.9°C,Humi:52.5%

Memo

: Sample Number: S24111413-008

D:\2024 Report Date\Q24111411-2E\1212 CE-1.EM6

Tested By

: Genliu

Model Number

: BAR 500MK2

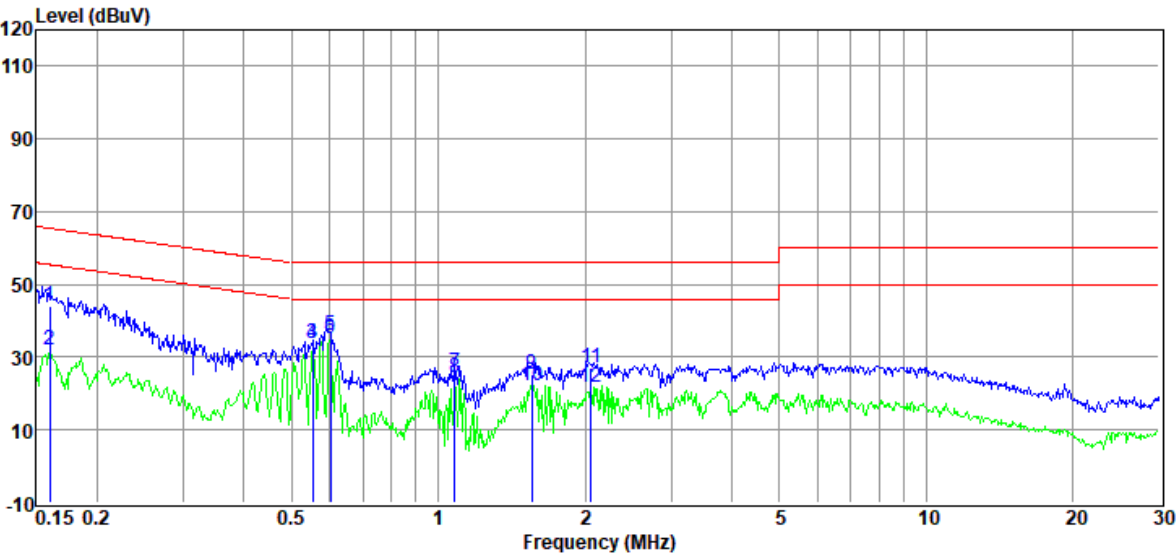
Test Mode

: Tx mode

LISN

: 2024 ENV216 3#/LINE

Data: 14



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	0.16	24.21	9.78	0.07	9.83	43.89	65.47	-21.58	QP	LINE
2	0.16	12.48	9.78	0.07	9.83	32.16	55.47	-23.31	Average	LINE
3	0.55	13.94	9.75	0.10	9.83	33.62	56.00	-22.38	QP	LINE
4	0.55	13.95	9.75	0.10	9.83	33.63	46.00	-12.37	Average	LINE
5	0.60	16.37	9.75	0.09	9.83	36.04	56.00	-19.96	QP	LINE
6	0.60	15.56	9.75	0.09	9.83	35.23	46.00	-10.77	Average	LINE
7	1.08	6.17	9.74	0.12	9.84	25.87	56.00	-30.13	QP	LINE
8	1.08	4.68	9.74	0.12	9.84	24.38	46.00	-21.62	Average	LINE
9	1.55	5.68	9.75	0.11	9.84	25.38	56.00	-30.62	QP	LINE
10	1.55	2.54	9.75	0.11	9.84	22.24	46.00	-23.76	Average	LINE
11	2.06	7.34	9.75	0.11	9.84	27.04	56.00	-28.96	QP	LINE
12	2.06	2.18	9.75	0.11	9.84	21.88	46.00	-24.12	Average	LINE

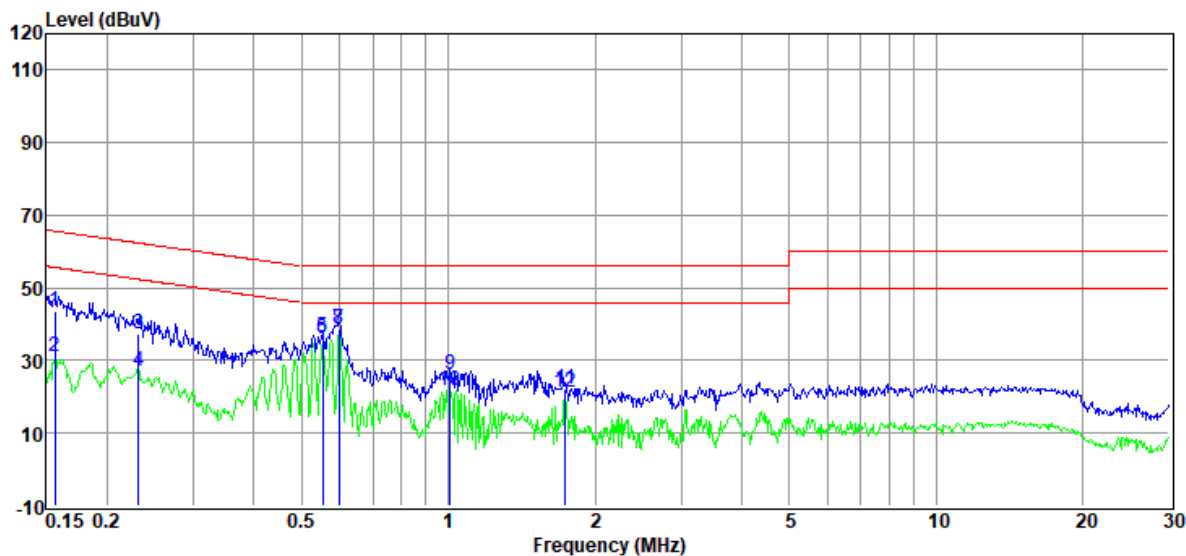
Note: 1. Result Level = Read Level +LISN Factor + Pulse Limiter Factor + Cable loss.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 6# Shield Room
Test Date : 2024-12-12
EUT : Multi-Channel Soundbar with wireless subwoofer
Power Supply : AC 120V/60Hz
Condition : Temp:21.9°C,Humi:52.5%
Memo : Sample Number: S24111413-008

D:\2024 Report Date\Q24111411-2E\1212 CE-1,EM6
Tested By : Genliu
Model Number : BAR 500MK2
Test Mode : Tx mode
LISN : 2024 ENV216 3#/NEUTRAL

Data: 16



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	0.16	23.71	9.78	0.07	9.83	43.39	65.65	-22.26	QP	NEUTRAL
2	0.16	11.37	9.78	0.07	9.83	31.05	55.65	-24.60	Average	NEUTRAL
3	0.23	17.84	9.76	0.06	9.83	37.49	62.39	-24.90	QP	NEUTRAL
4	0.23	7.21	9.76	0.06	9.83	26.86	52.39	-25.53	Average	NEUTRAL
5	0.55	16.60	9.76	0.10	9.83	36.29	56.00	-19.71	QP	NEUTRAL
6	0.55	16.51	9.76	0.10	9.83	36.20	46.00	-9.80	Average	NEUTRAL
7	0.60	19.00	9.75	0.09	9.83	38.67	56.00	-17.33	QP	NEUTRAL
8	0.60	19.10	9.75	0.09	9.83	38.77	46.00	-7.23	Average	NEUTRAL
9	1.01	6.57	9.76	0.12	9.84	26.29	56.00	-29.71	QP	NEUTRAL
10	1.01	2.08	9.76	0.12	9.84	21.80	46.00	-24.20	Average	NEUTRAL
11	1.73	2.37	9.77	0.11	9.84	22.09	56.00	-33.91	QP	NEUTRAL
12	1.73	1.58	9.77	0.11	9.84	21.30	46.00	-24.70	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-Q24111413-1E appendix I

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