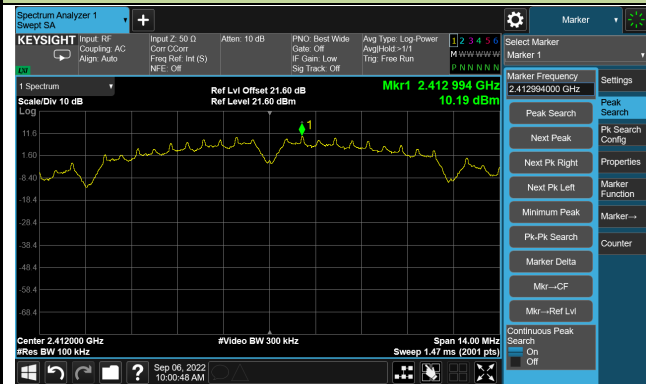


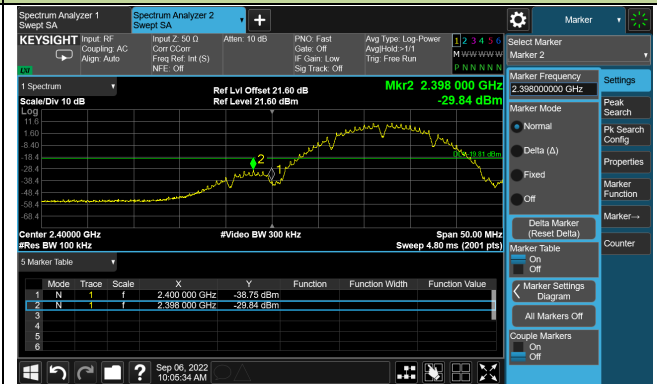
802.11b Out-of-Band Emissions

Channel 01 (2412MHz)

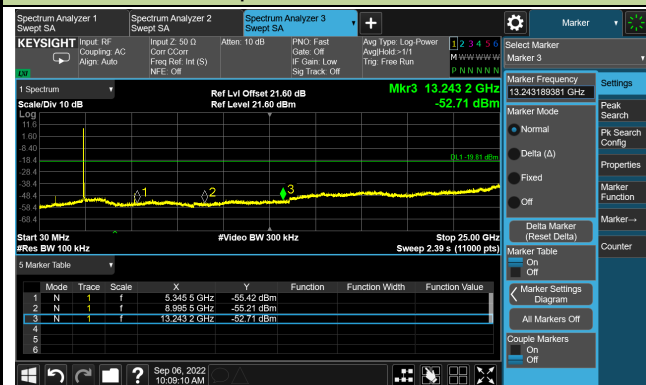
100kHz PSD Reference Level



Low Band Edge

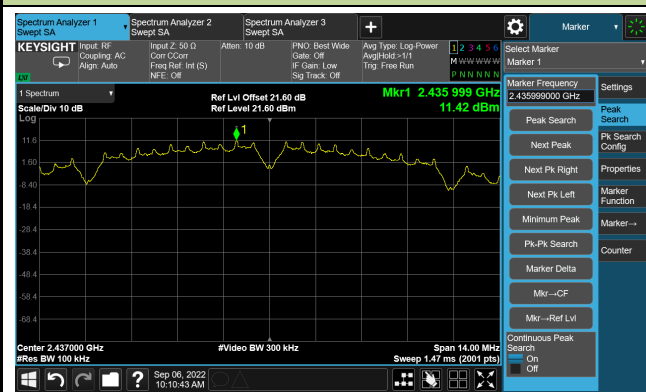


Spurious Emission



Channel 06 (2437MHz)

100kHz PSD Reference Level



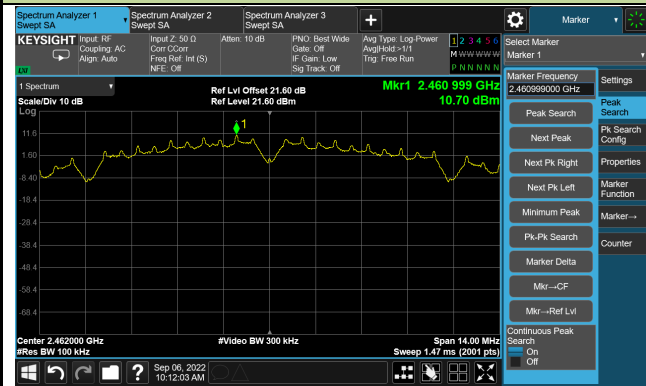
Spurious Emission



802.11b Out-of-Band Emissions

Channel 11 (2462MHz)

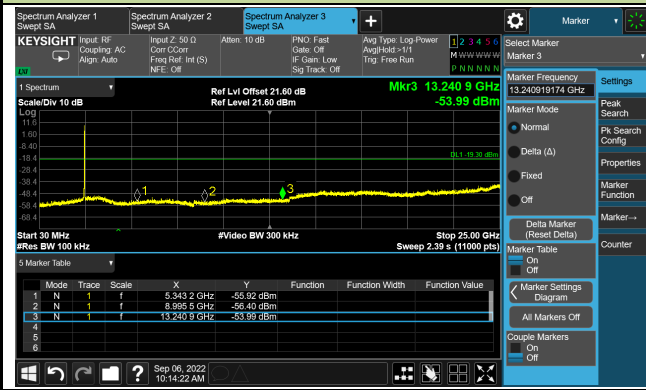
100kHz PSD Reference Level



High Band Edge



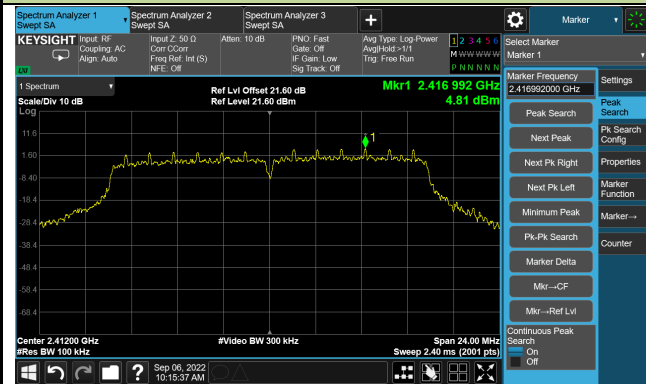
Spurious Emission



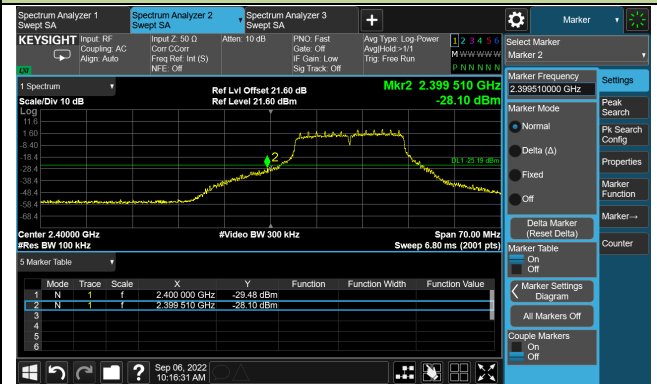
802.11g Out-of-Band Emissions

Channel 01 (2412MHz)

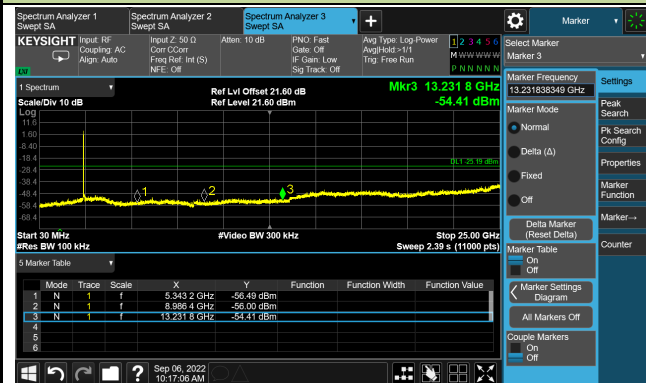
100kHz PSD Reference Level



Low Band Edge

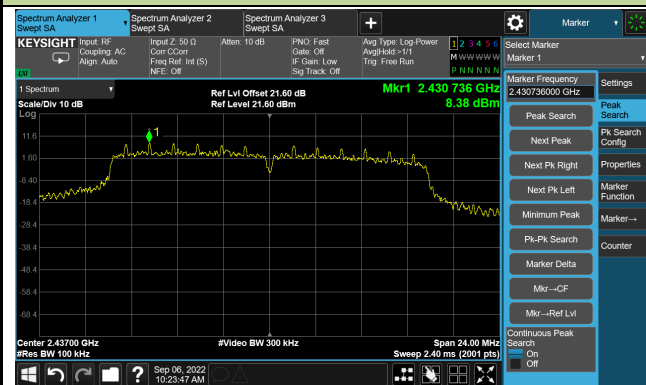


Spurious Emission



Channel 06 (2437MHz)

100kHz PSD Reference Level



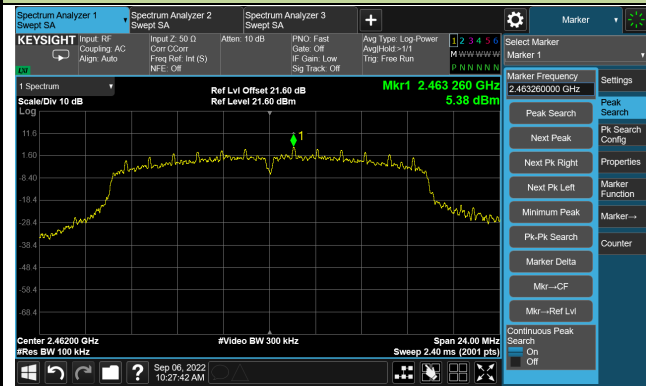
Spurious Emission



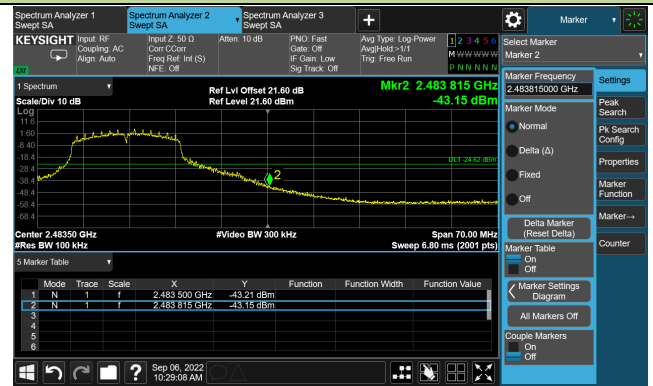
802.11g Out-of-Band Emissions

Channel 11 (2462MHz)

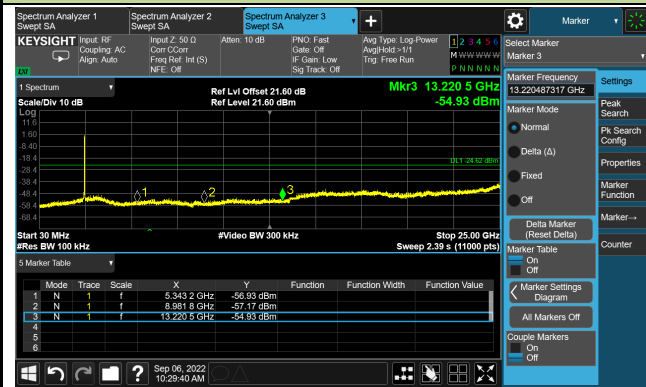
100kHz PSD Reference Level



High Band Edge



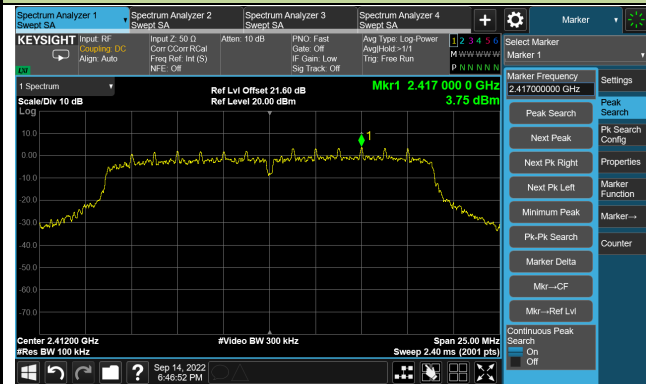
Spurious Emission



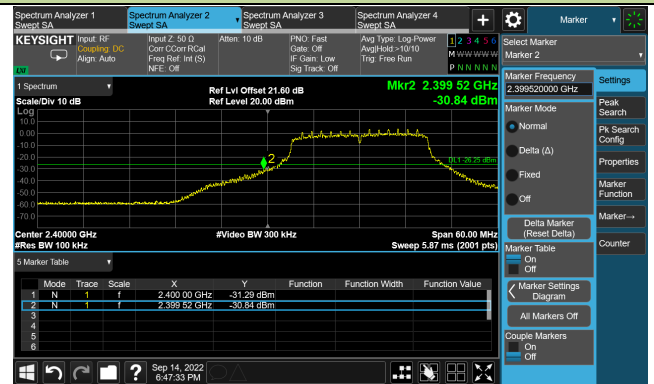
802.11n-HT20 Out-of-Band Emissions

Channel 01 (2412MHz)

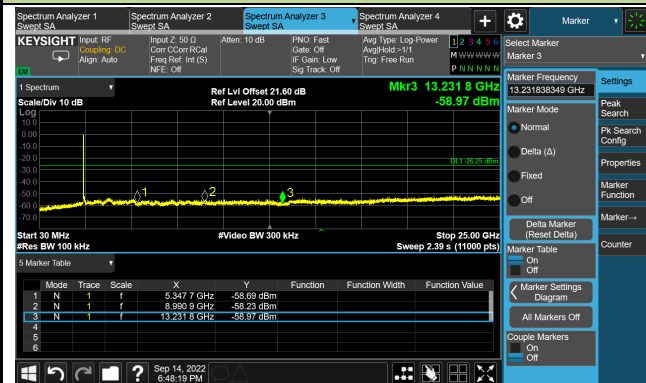
100kHz PSD Reference Level



Low Band Edge

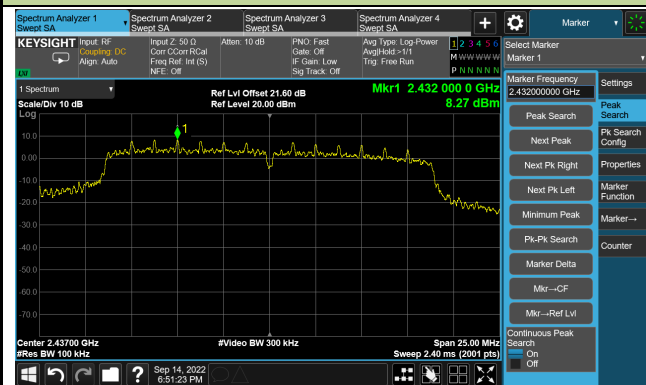


Spurious Emission

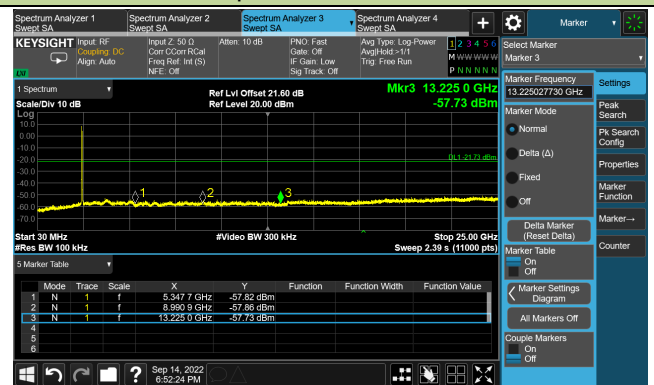


Channel 06 (2437MHz)

100kHz PSD Reference Level



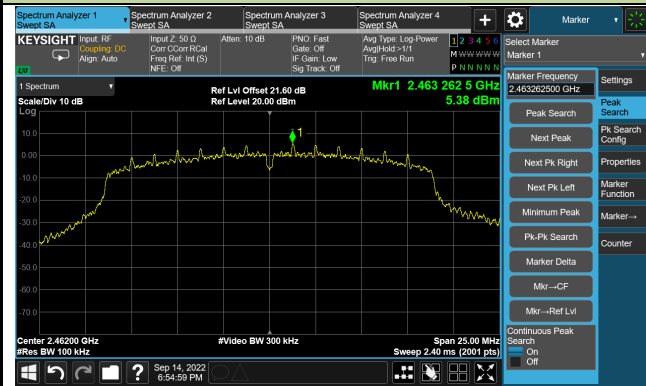
Spurious Emission



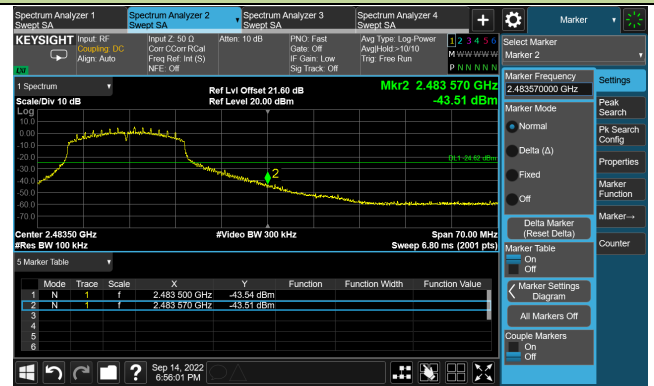
802.11n-HT20 Out-of-Band Emissions

Channel 11 (2462MHz)

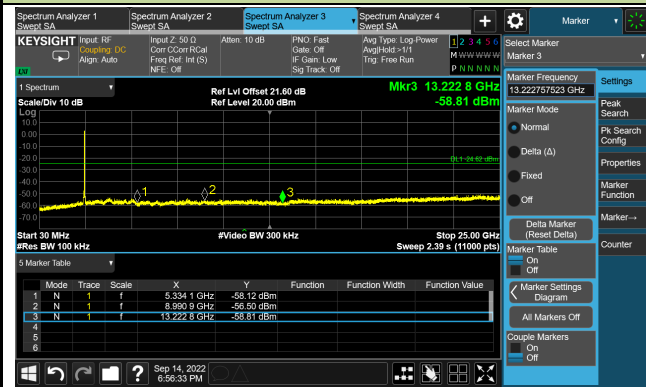
100kHz PSD Reference Level



High Band Edge



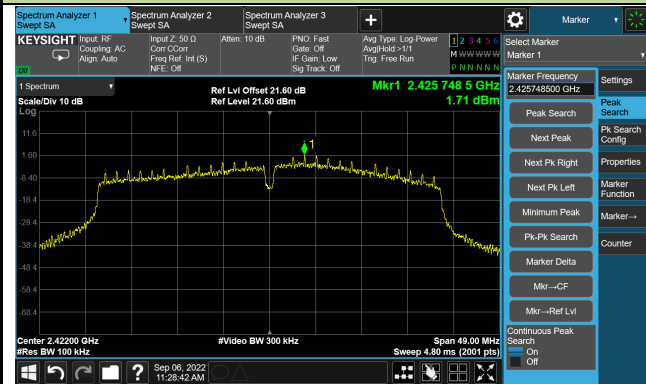
Spurious Emission



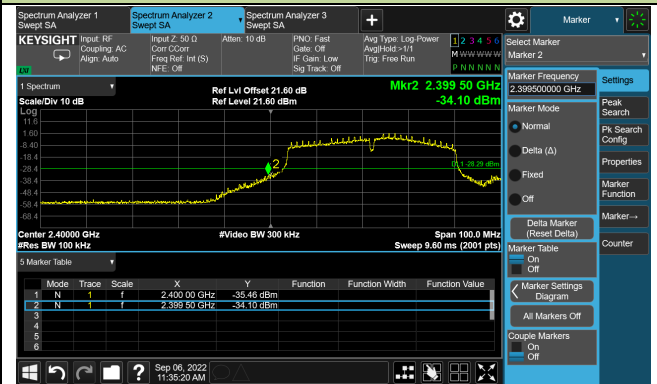
802.11n-HT40 Out-of-Band Emissions

Channel 03 (2422MHz)

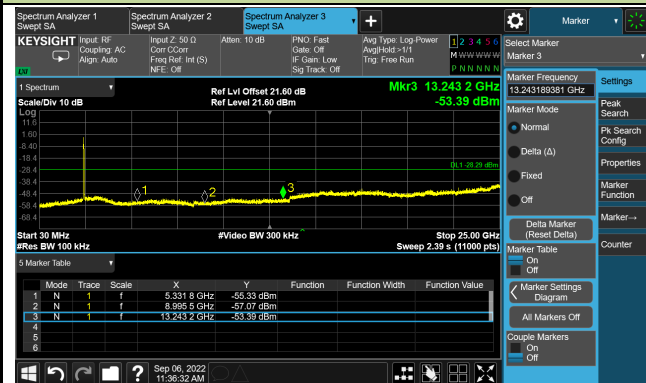
100kHz PSD Reference Level



Low Band Edge

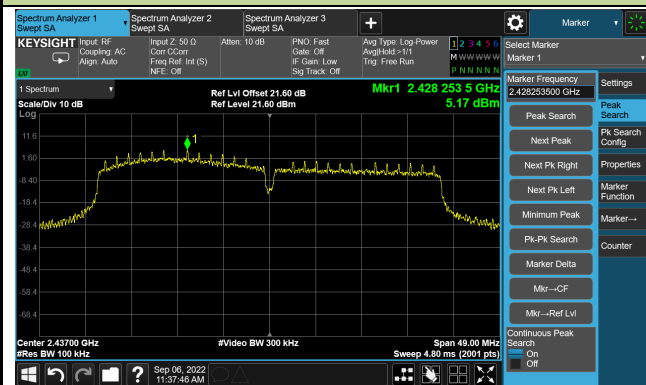


Spurious Emission

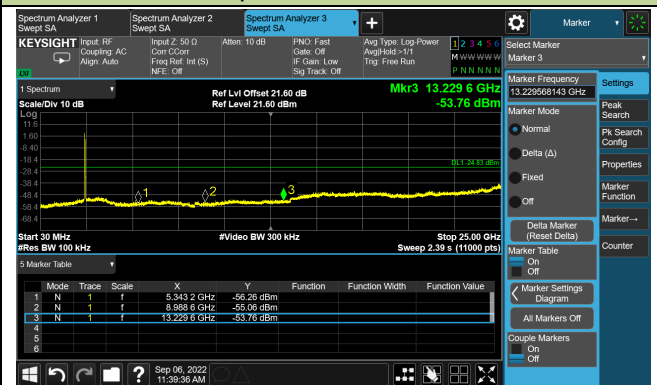


Channel 06 (2437MHz)

100kHz PSD Reference Level

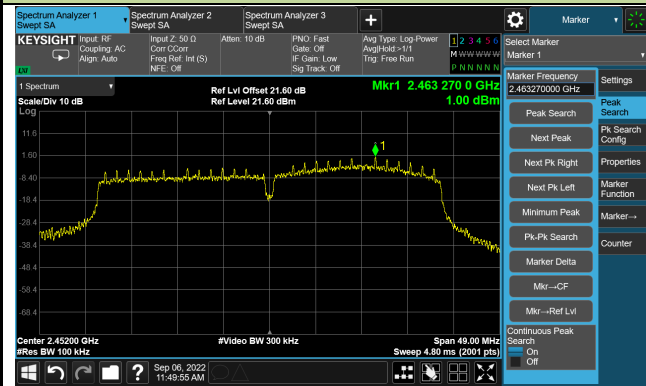


Spurious Emission

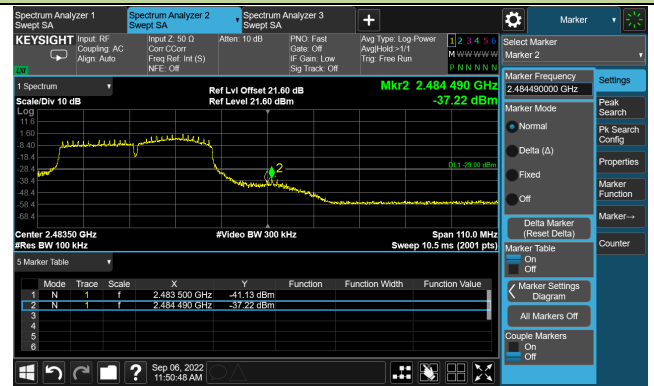


802.11n-HT40 Out-of-Band Emissions Channel 09 (2452MHz)

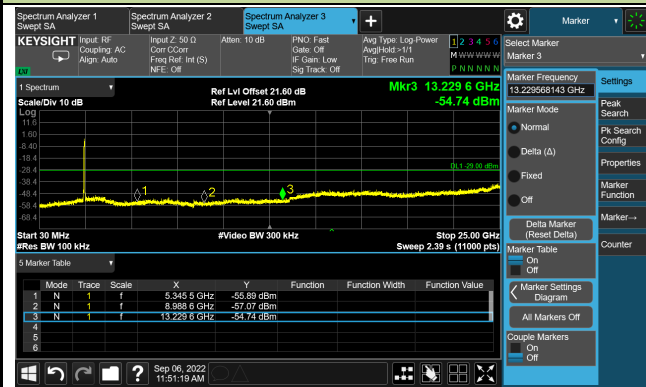
100kHz PSD Reference Level



High Band Edge



Spurious Emission



A.6 Radiated Spurious Emission Test Result

Test Site	WZ-AC2	Test Engineer	Lucas Wang
Test Date	2022-08-30~2022-08-31	Test Mode:	802.11b
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
01	4825.0	38.8	4.0	42.8	74.0	-31.2	Peak	Horizontal
	7307.0	32.9	11.1	44.0	74.0	-30.0	Peak	Horizontal
	10987.5	31.6	17.0	48.6	74.0	-25.4	Peak	Horizontal
	4825.0	39.2	4.0	43.2	74.0	-30.8	Peak	Vertical
	7468.5	31.2	11.3	42.5	74.0	-31.5	Peak	Vertical
	12254.0	32.0	18.1	50.1	74.0	-23.9	Peak	Vertical
06	4876.0	37.1	3.8	40.9	74.0	-33.1	Peak	Horizontal
	8165.5	33.7	11.8	45.5	74.0	-28.5	Peak	Horizontal
	10987.5	32.7	17.0	49.7	74.0	-24.3	Peak	Horizontal
	4876.0	38.0	3.8	41.8	74.0	-32.2	Peak	Vertical
	7307.0	34.5	11.1	45.6	74.0	-28.4	Peak	Vertical
	11574.0	31.2	18.1	49.3	74.0	-24.7	Peak	Vertical
11	4927.0	38.1	3.8	41.9	74.0	-32.1	Peak	Horizontal
	8131.5	33.3	11.9	45.2	74.0	-28.8	Peak	Horizontal
	11480.5	32.4	17.3	49.7	74.0	-24.3	Peak	Horizontal
	4799.5	36.9	4.2	41.1	74.0	-32.9	Peak	Vertical
	7519.5	32.8	11.4	44.2	74.0	-29.8	Peak	Vertical
	11659.0	31.1	17.9	49.0	74.0	-25.0	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	WZ-AC2	Test Engineer	Lucas Wang
Test Date	2022-08-30~2022-08-31	Test Mode:	802.11g
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
01	7375.0	33.8	11.5	45.3	74.0	-28.7	Peak	Horizontal
	8097.5	32.7	11.9	44.6	74.0	-29.4	Peak	Horizontal
	11531.5	32.0	17.5	49.5	74.0	-24.5	Peak	Horizontal
	7366.5	32.3	11.6	43.9	74.0	-30.1	Peak	Vertical
	8488.5	33.4	11.9	45.3	74.0	-28.7	Peak	Vertical
	11582.5	31.1	17.9	49.0	74.0	-25.0	Peak	Vertical
06	7502.5	30.4	11.5	41.9	74.0	-32.1	Peak	Horizontal
	8488.5	33.4	11.9	45.3	74.0	-28.7	Peak	Horizontal
	11650.5	31.7	17.9	49.6	74.0	-24.4	Peak	Horizontal
	7400.5	31.5	11.5	43.0	74.0	-31.0	Peak	Vertical
	8242.0	31.6	11.6	43.2	74.0	-30.8	Peak	Vertical
	11591.0	31.3	17.9	49.2	74.0	-24.8	Peak	Vertical
11	7434.5	32.2	11.7	43.9	74.0	-30.1	Peak	Horizontal
	8182.5	33.5	11.7	45.2	74.0	-28.8	Peak	Horizontal
	11157.5	32.0	17.2	49.2	74.0	-24.8	Peak	Horizontal
	7630.0	32.8	11.4	44.2	74.0	-29.8	Peak	Vertical
	8276.0	31.8	11.3	43.1	74.0	-30.9	Peak	Vertical
	10902.5	32.2	17.0	49.2	74.0	-24.8	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	WZ-AC2	Test Engineer	Lucas Wang
Test Date	2022-08-30~2022-08-31	Test Mode:	802.11n-HT20
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
01	7409.0	32.2	11.7	43.9	74.0	-30.1	Peak	Horizontal
	8165.5	32.5	11.8	44.3	74.0	-29.7	Peak	Horizontal
	11310.5	31.9	17.3	49.2	74.0	-24.8	Peak	Horizontal
	7400.5	32.5	11.5	44.0	74.0	-30.0	Peak	Vertical
	8352.5	31.0	11.5	42.5	74.0	-31.5	Peak	Vertical
	11429.5	31.6	17.7	49.3	74.0	-24.7	Peak	Vertical
06	7366.5	32.3	11.6	43.9	74.0	-30.1	Peak	Horizontal
	8242.0	33.0	11.6	44.6	74.0	-29.4	Peak	Horizontal
	10996.0	32.2	16.9	49.1	74.0	-24.9	Peak	Horizontal
	7315.5	33.8	11.2	45.0	74.0	-29.0	Peak	Vertical
	8310.0	31.8	11.4	43.2	74.0	-30.8	Peak	Vertical
	11659.0	31.6	17.9	49.5	74.0	-24.5	Peak	Vertical
11	7349.5	32.8	11.5	44.3	74.0	-29.7	Peak	Horizontal
	8148.5	33.2	12.0	45.2	74.0	-28.8	Peak	Horizontal
	10970.5	32.6	16.8	49.4	74.0	-24.6	Peak	Horizontal
	7383.5	32.6	11.5	44.1	74.0	-29.9	Peak	Vertical
	8148.5	32.8	12.0	44.8	74.0	-29.2	Peak	Vertical
	10987.5	32.4	17.0	49.4	74.0	-24.6	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	WZ-AC2	Test Engineer	Lucas Wang
Test Date	2022-08-30~2022-08-31	Test Mode:	802.11n-HT40
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

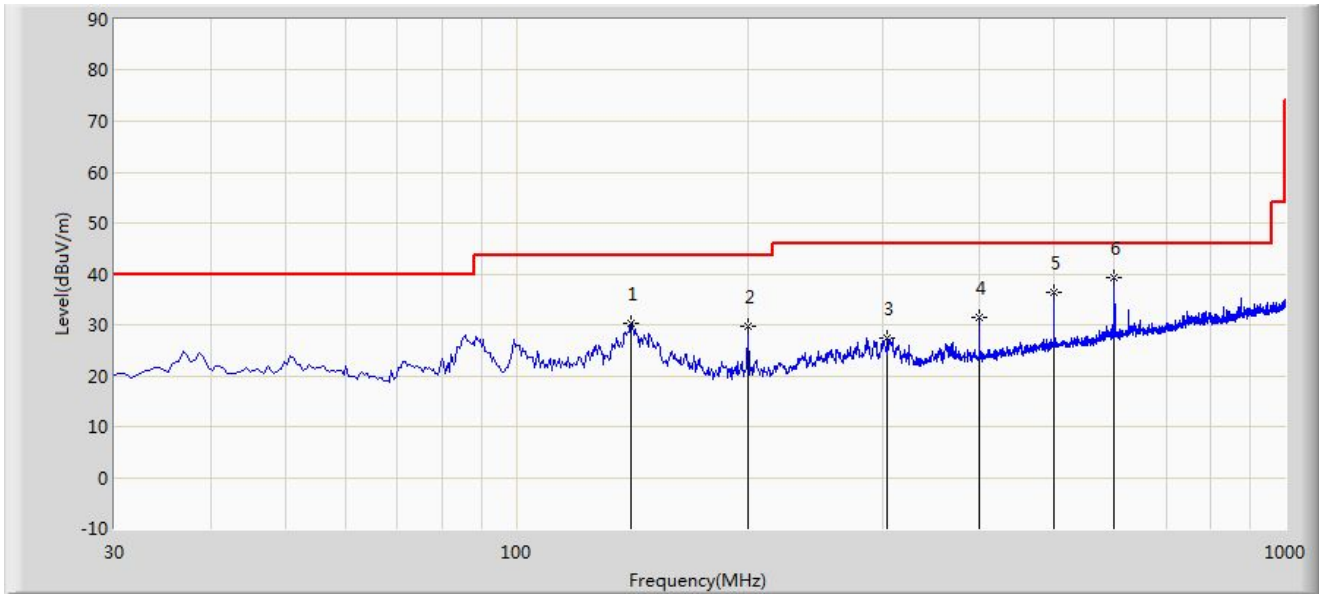
Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
03	7434.5	30.9	11.7	42.6	74.0	-31.4	Peak	Horizontal
	8242.0	31.9	11.6	43.5	74.0	-30.5	Peak	Horizontal
	10877.0	33.0	16.5	49.5	74.0	-24.5	Peak	Horizontal
	7570.5	31.2	11.6	42.8	74.0	-31.2	Peak	Vertical
	8429.0	32.1	11.8	43.9	74.0	-30.1	Peak	Vertical
	11072.5	33.0	16.9	49.9	74.0	-24.1	Peak	Vertical
06	7536.5	31.6	11.4	43.0	74.0	-31.0	Peak	Horizontal
	8310.0	32.1	11.4	43.5	74.0	-30.5	Peak	Horizontal
	10979.0	32.7	17.1	49.8	74.0	-24.2	Peak	Horizontal
	7536.5	31.6	11.4	43.0	74.0	-31.0	Peak	Vertical
	8242.0	30.9	11.6	42.5	74.0	-31.5	Peak	Vertical
	11497.5	31.0	17.6	48.6	74.0	-25.4	Peak	Vertical
09	7494.0	32.2	11.5	43.7	74.0	-30.3	Peak	Horizontal
	8310.0	32.3	11.4	43.7	74.0	-30.3	Peak	Horizontal
	10979.0	32.6	17.1	49.7	74.0	-24.3	Peak	Horizontal
	7672.5	32.8	11.2	44.0	74.0	-30.0	Peak	Vertical
	8191.0	33.6	11.6	45.2	74.0	-28.8	Peak	Vertical
	11208.5	31.6	17.6	49.2	74.0	-24.8	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Radiated Spurious Emission for below 1GHz:

Site: WZ-AC1	Test Date: 2022-09-08
Limit: FCC_Part15.209_RE(3m)	Engineer: Charles Zhang
Probe: VULB 9168_25-2000MHz	Polarity: Horizontal
EUT: Wireless Streaming Speaker	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2437MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		141.065	30.328	12.753	-13.172	43.500	17.576	PK
2		199.750	29.571	14.731	-13.929	43.500	14.840	PK
3		303.540	27.280	8.803	-18.720	46.000	18.477	PK
4		400.055	31.412	10.617	-14.588	46.000	20.795	PK
5		499.965	36.310	13.181	-9.690	46.000	23.129	PK
6	*	599.875	39.277	13.818	-6.723	46.000	25.459	PK

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

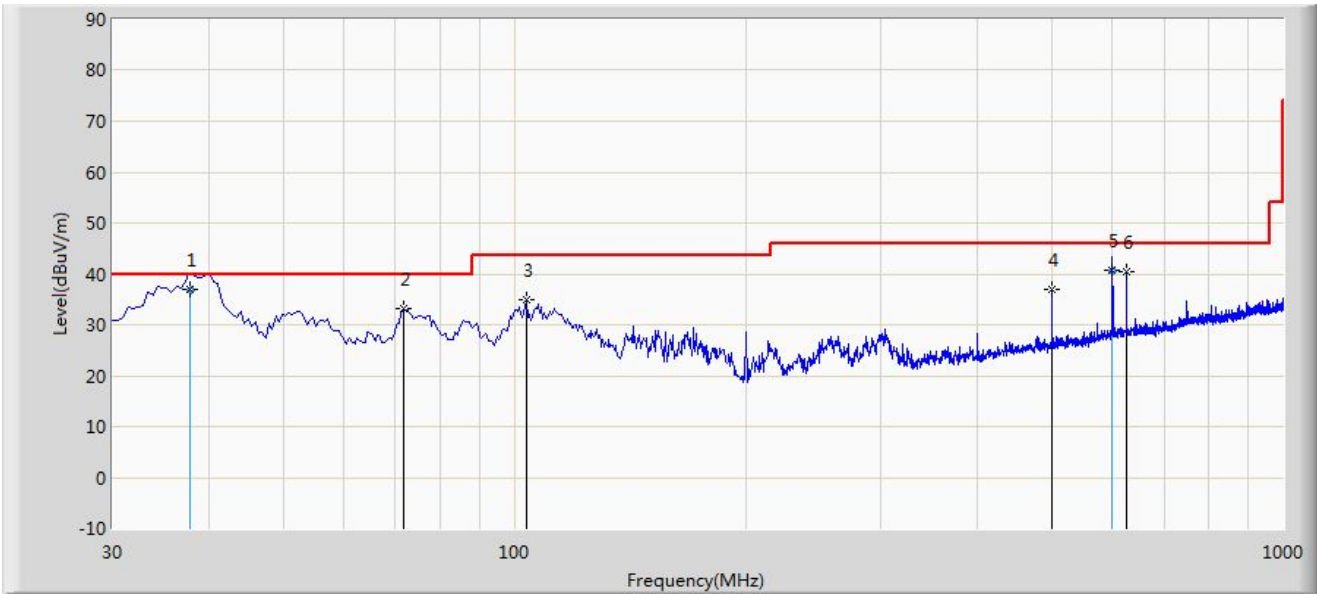
Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: QP measurement was not performed when peak measure level was lower than the QP limit.

Note 3: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value.

Therefore, the data is not presented in the report.

Site: WZ-AC1	Test Date: 2022-09-08
Limit: FCC_Part15.209_RE(3m)	Engineer: Charles Zhang
Probe: VULB 9168_25-2000MHz	Polarity: Vertical
EUT: Wireless Streaming Speaker	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2437MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	37.780	36.863	18.830	-3.137	40.000	18.033	QP
2		71.710	33.211	17.309	-6.789	40.000	15.902	PK
3		103.720	34.841	21.019	-8.659	43.500	13.822	PK
4		499.965	36.854	13.725	-9.146	46.000	23.129	PK
5		600.000	40.693	15.230	-5.307	46.000	25.463	QP
6		625.095	40.299	14.339	-5.701	46.000	25.959	PK

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

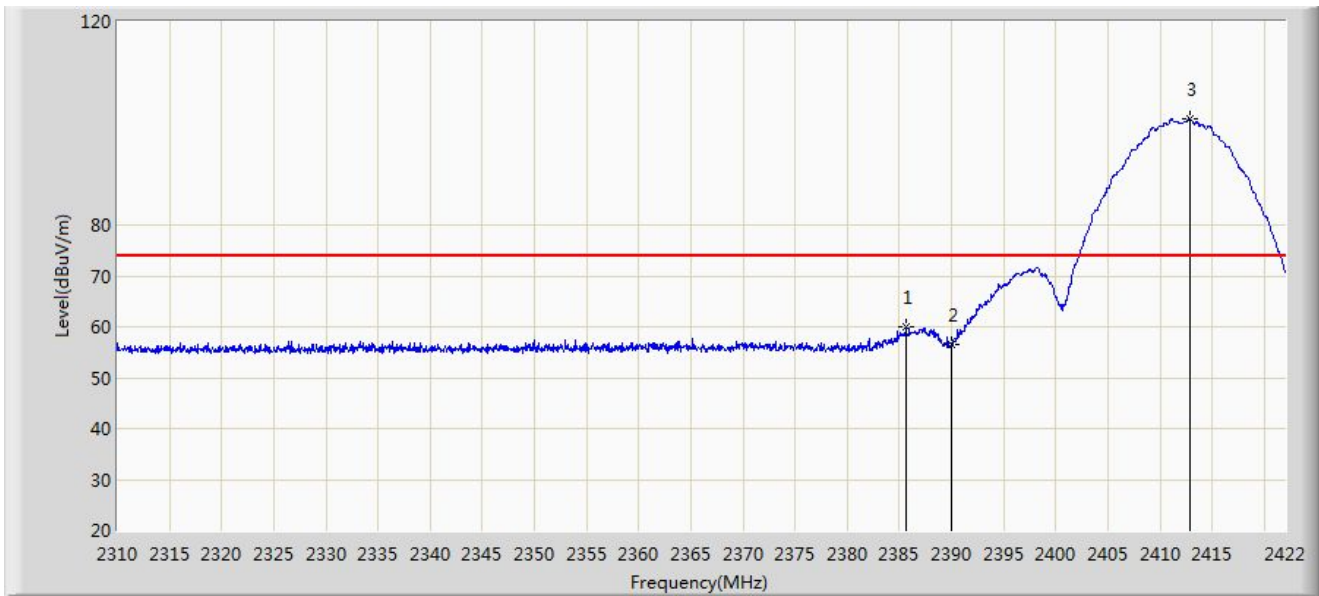
Note 2: QP measurement was not performed when peak measure level was lower than the QP limit.

Note 3: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value.

Therefore, the data is not presented in the report.

A.7 Radiated Restricted Band Edge Test Result

Site: WZ-AC2	Test Date: 2022-08-30
Limit: FCC_Part15.209_RE(3m)	Engineer: Lucas Wang
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: Wireless Streaming Speaker	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



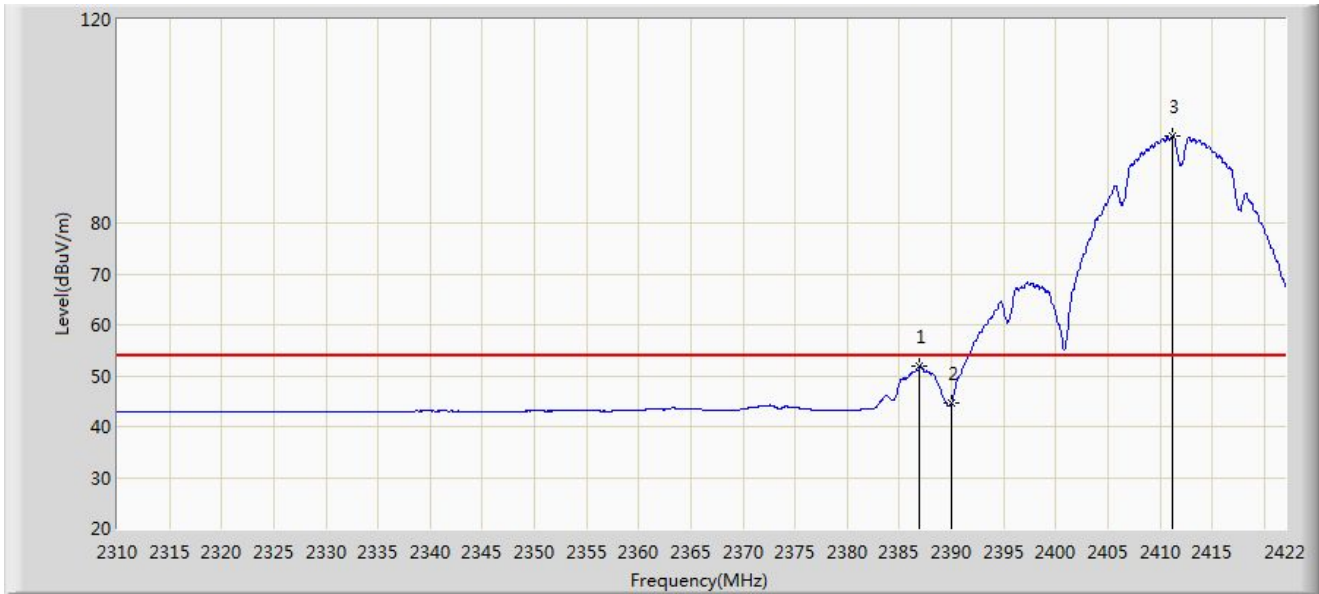
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1	*	2385.656	60.067	28.612	-13.933	74.000	31.454	PK
2		2390.000	56.545	25.112	-17.455	74.000	31.433	PK
3		2412.872	100.840	69.483	N/A	N/A	31.356	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC2	Test Date: 2022-08-30
Limit: FCC_Part15.209_RE(3m)	Engineer: Lucas Wang
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: Wireless Streaming Speaker	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



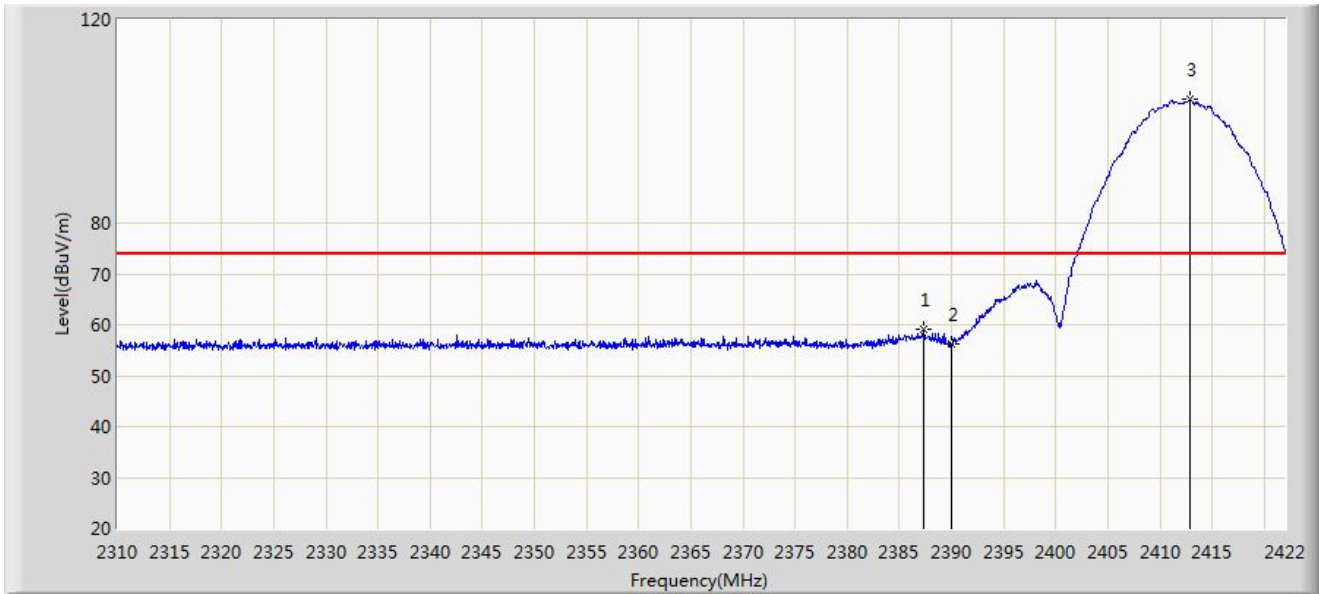
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1	*	2386.944	51.843	20.395	-2.157	54.000	31.448	AV
2		2390.000	44.610	13.177	-9.390	54.000	31.433	AV
3		2411.192	97.227	65.866	N/A	N/A	31.361	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC2	Test Date: 2022-08-30
Limit: FCC_Part15.209_RE(3m)	Engineer: Lucas Wang
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: Wireless Streaming Speaker	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



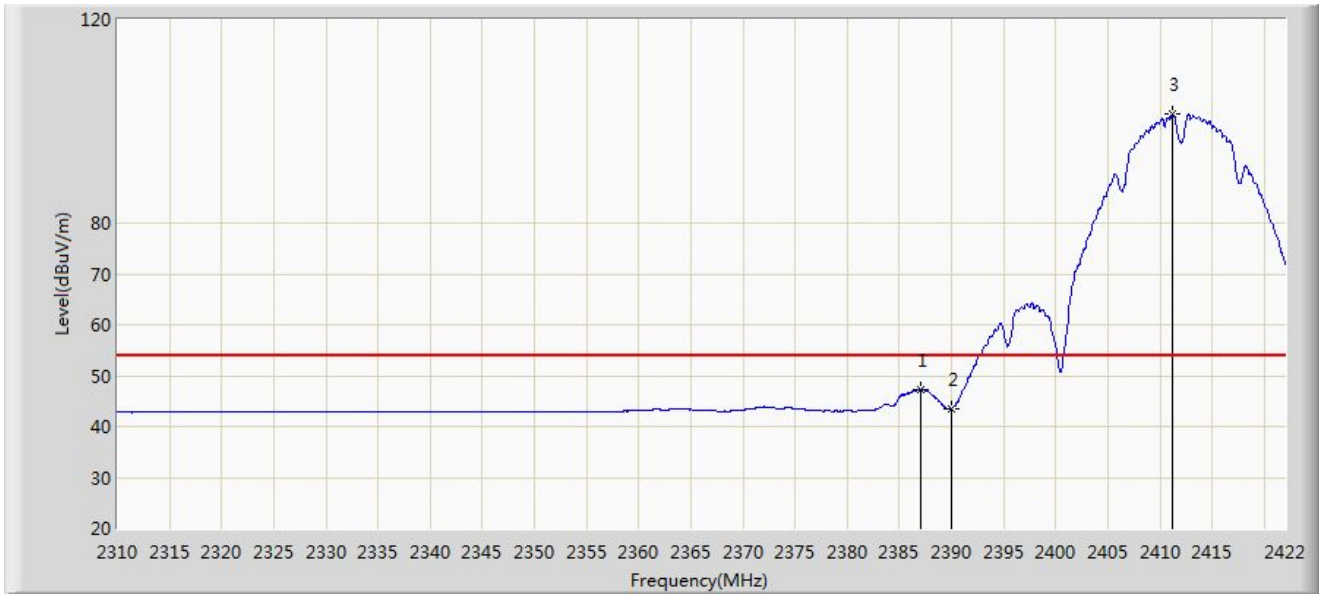
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2387.336	59.068	27.622	-14.932	74.000	31.447	PK
2		2390.000	56.250	24.817	-17.750	74.000	31.433	PK
3		2412.872	104.281	72.924	N/A	N/A	31.356	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC2	Test Date: 2022-08-30
Limit: FCC_Part15.209_RE(3m)	Engineer: Lucas Wang
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: Wireless Streaming Speaker	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



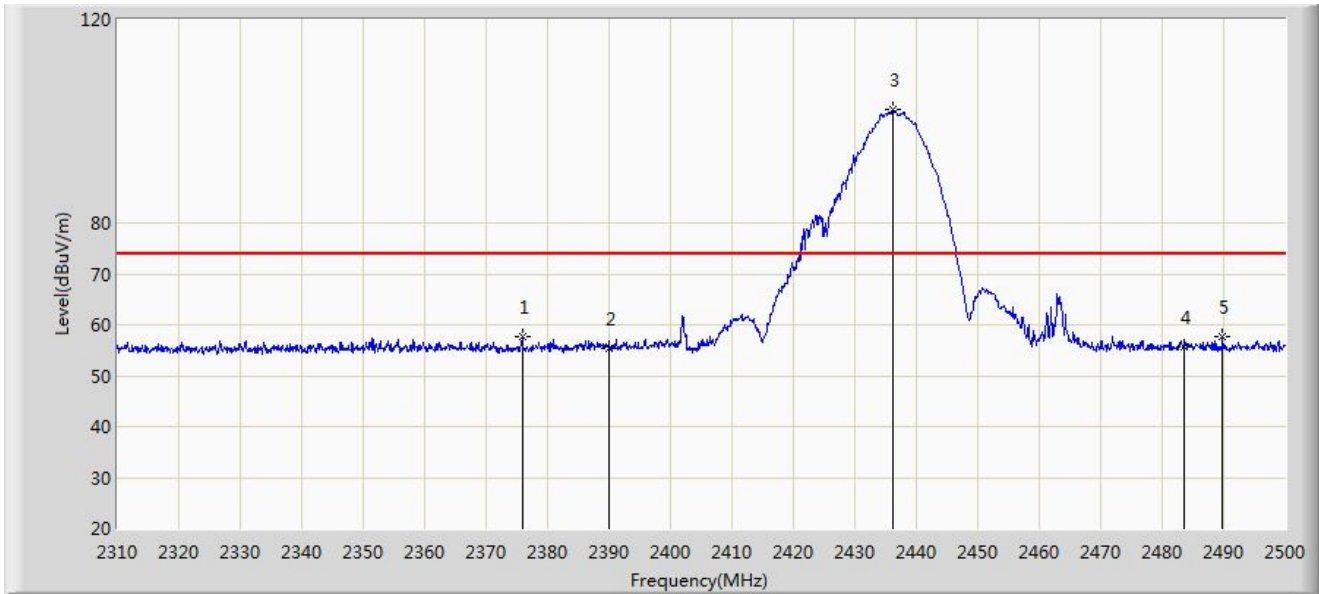
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1	*	2387.112	47.260	15.812	-6.740	54.000	31.448	AV
2		2390.000	43.579	12.146	-10.421	54.000	31.433	AV
3		2411.248	101.351	69.990	N/A	N/A	31.361	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC2	Test Date: 2022-08-30
Limit: FCC_Part15.209_RE(3m)	Engineer: Lucas Wang
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: Wireless Streaming Speaker	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2437MHz	



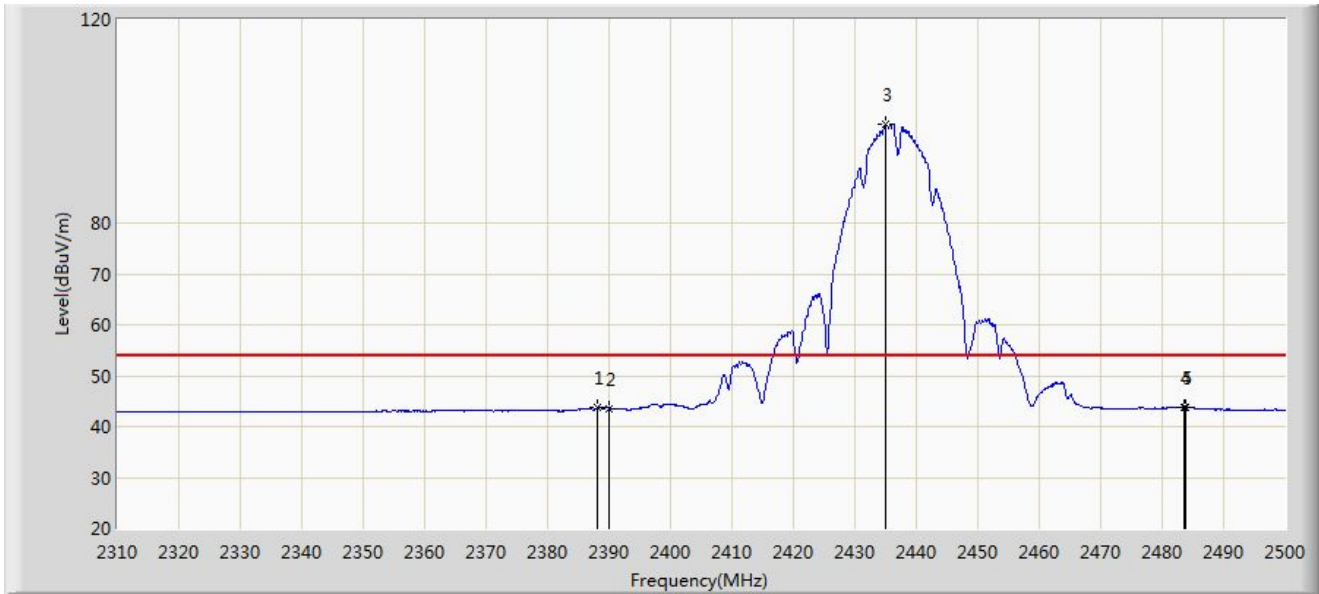
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1	*	2375.930	57.818	26.330	-16.182	74.000	31.489	PK
2		2390.000	55.423	23.990	-18.577	74.000	31.433	PK
3		2436.255	102.295	70.978	N/A	N/A	31.317	PK
4		2483.500	55.576	24.261	-18.424	74.000	31.315	PK
5		2489.740	57.687	26.361	-16.313	74.000	31.326	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC2	Test Date: 2022-08-30
Limit: FCC_Part15.209_RE(3m)	Engineer: Lucas Wang
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: Wireless Streaming Speaker	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2437MHz	



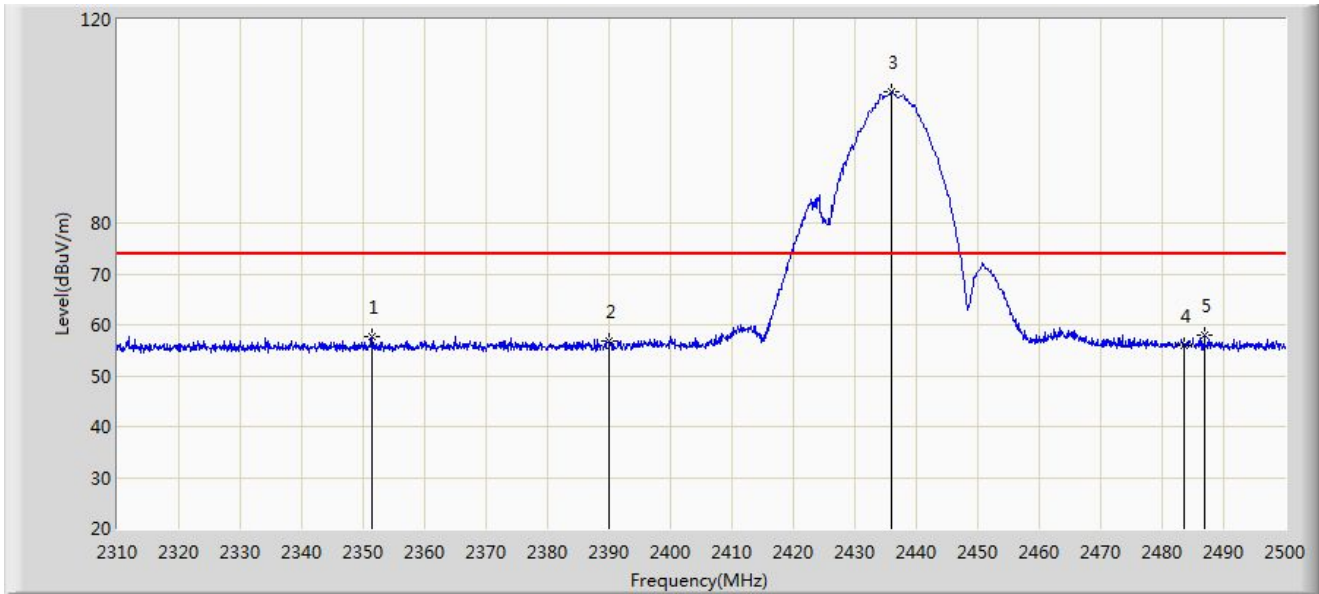
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1	*	2388.185	43.794	12.352	-10.206	54.000	31.442	AV
2		2390.000	43.620	12.187	-10.380	54.000	31.433	AV
3		2434.925	99.497	68.179	N/A	N/A	31.318	AV
4		2483.500	43.751	12.436	-10.249	54.000	31.315	AV
5		2483.850	43.775	12.460	-10.225	54.000	31.315	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC2	Test Date: 2022-08-30
Limit: FCC_Part15.209_RE(3m)	Engineer: Lucas Wang
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: Wireless Streaming Speaker	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2437MHz	



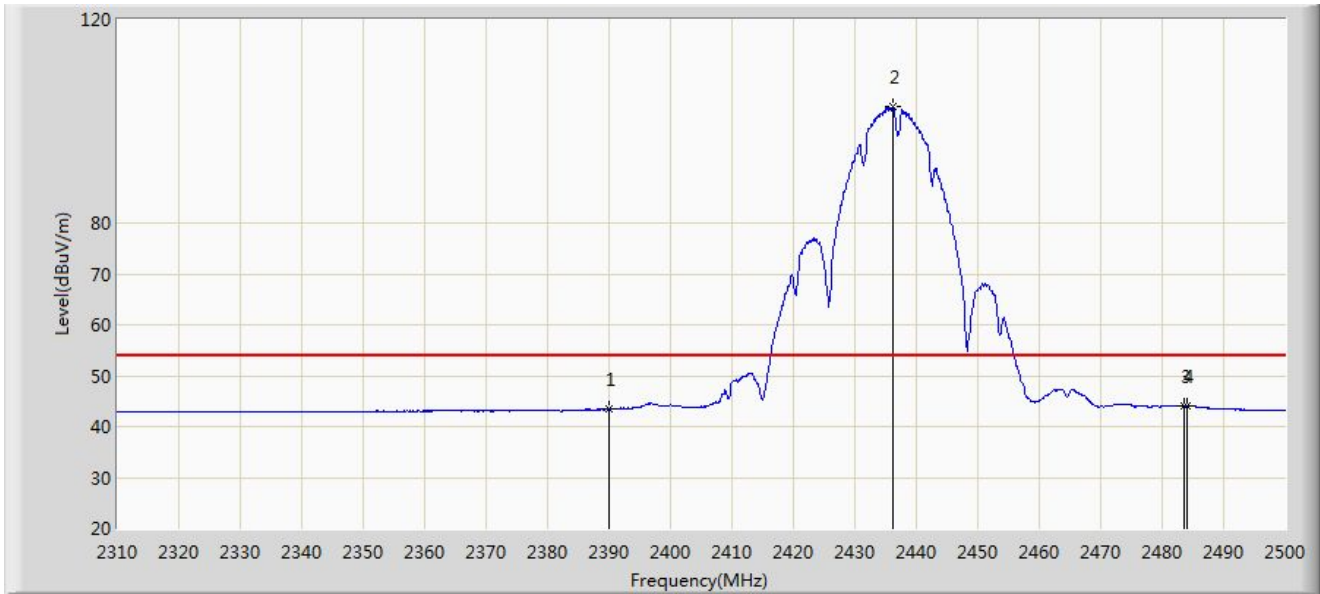
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2351.325	57.807	26.297	-16.193	74.000	31.509	PK
2		2390.000	56.691	25.258	-17.309	74.000	31.433	PK
3		2436.065	105.818	74.501	N/A	N/A	31.317	PK
4		2483.500	55.864	24.549	-18.136	74.000	31.315	PK
5	*	2486.890	57.922	26.601	-16.078	74.000	31.321	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC2	Test Date: 2022-08-30
Limit: FCC_Part15.209_RE(3m)	Engineer: Lucas Wang
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: Wireless Streaming Speaker	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2437MHz	



No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1		2390.000	43.393	11.960	-10.607	54.000	31.433	AV
2		2436.160	102.846	71.529	N/A	N/A	31.317	AV
3		2483.500	44.178	12.863	-9.822	54.000	31.315	AV
4	*	2484.040	44.193	12.877	-9.807	54.000	31.316	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).