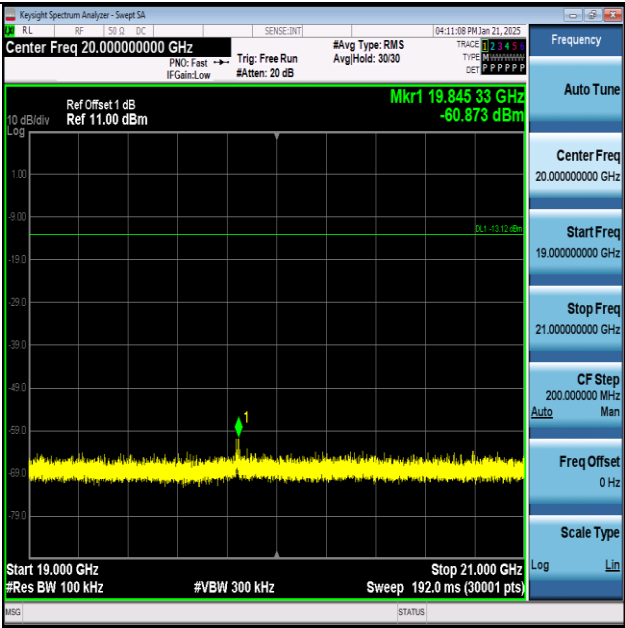
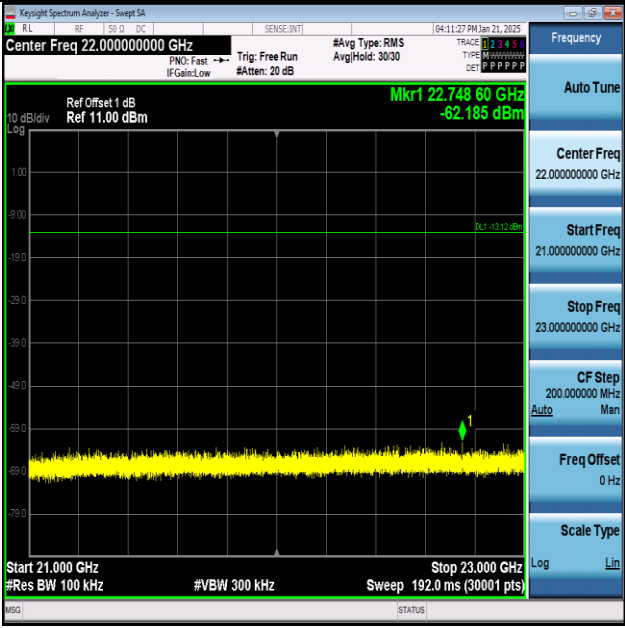
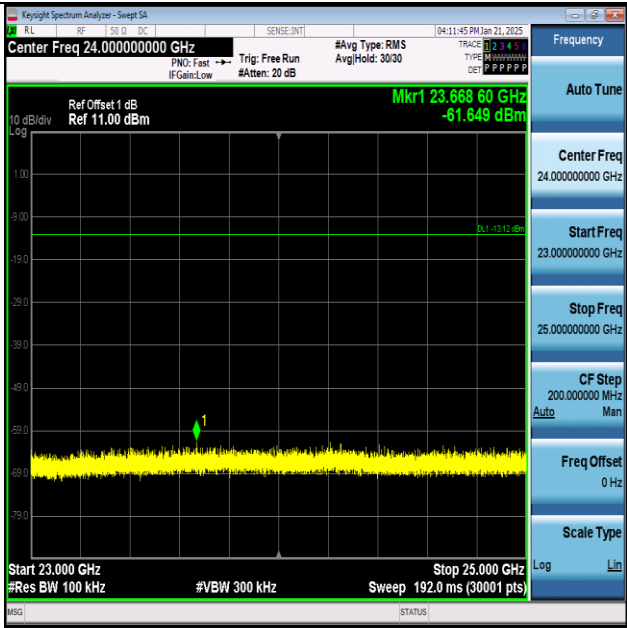




ZIGB-Ant1-2480-19000~21000-PASS



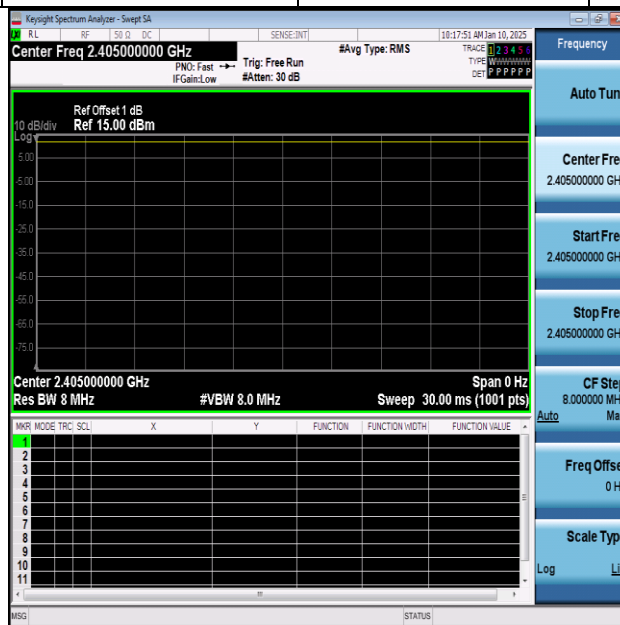
ZIGB-Ant1-2480-21000~23000-PASS



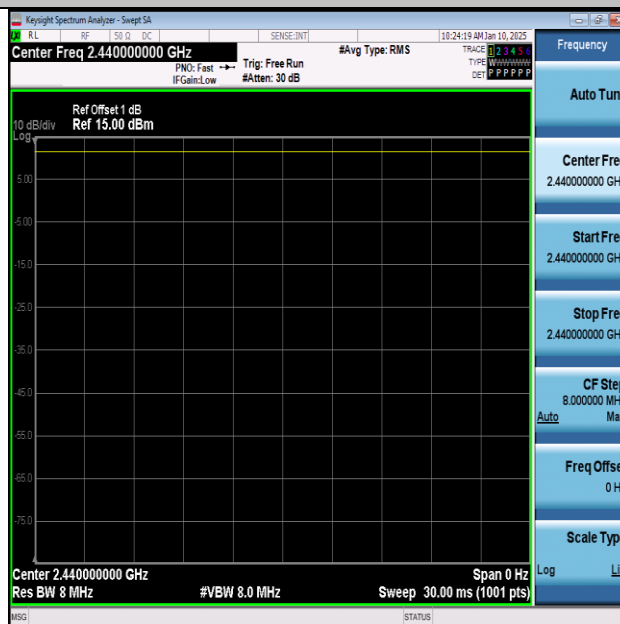
ZIGB-Ant1-2480-23000~25000-PASS

Appendix G: Duty Cycle

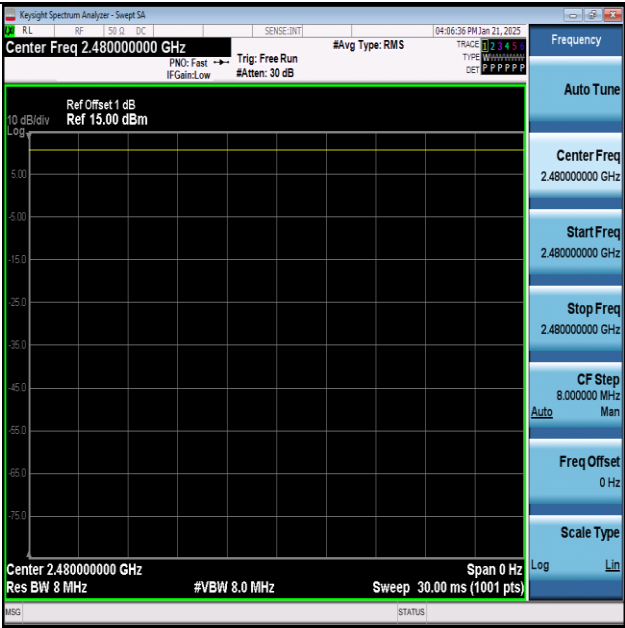
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
ZIGB	Ant1	2405	30.00	0.00	100
ZIGB	Ant1	2440	30.00	0.00	100
ZIGB	Ant1	2480	30.00	0.00	100



NTNV-ZIGB-Ant1-2405



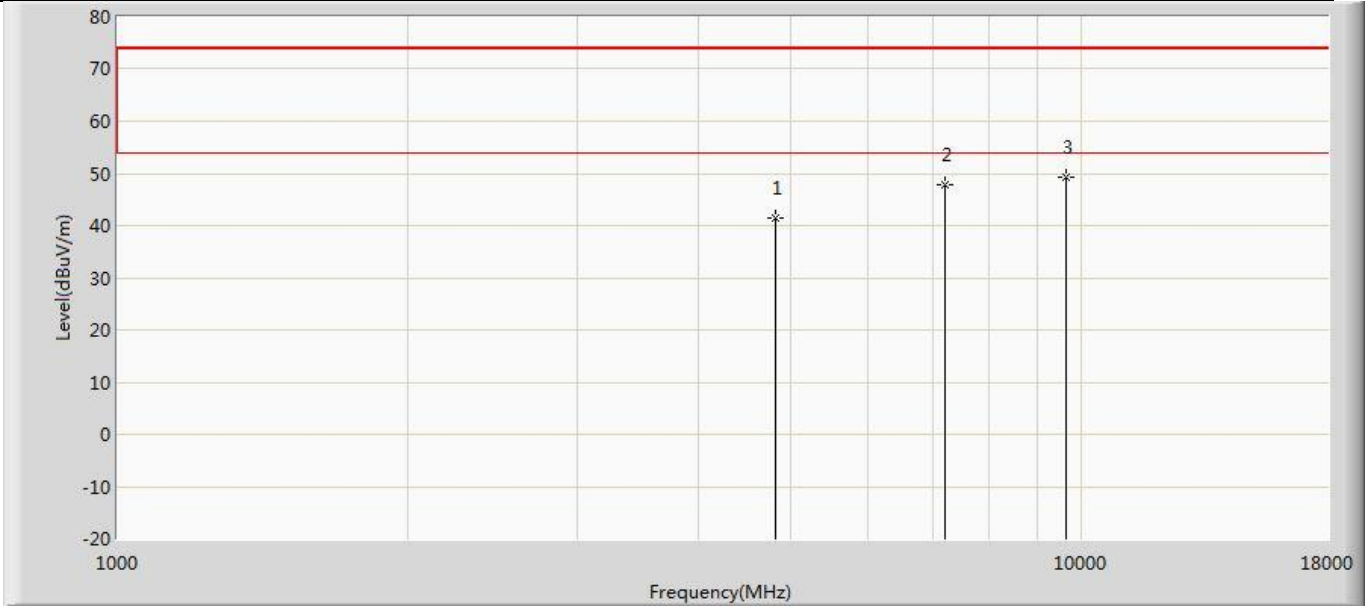
NTNV-ZIGB-Ant1-2440



NTNV-ZIGB-Ant1-2480

Appendix H: Emissions in Restricted Bands

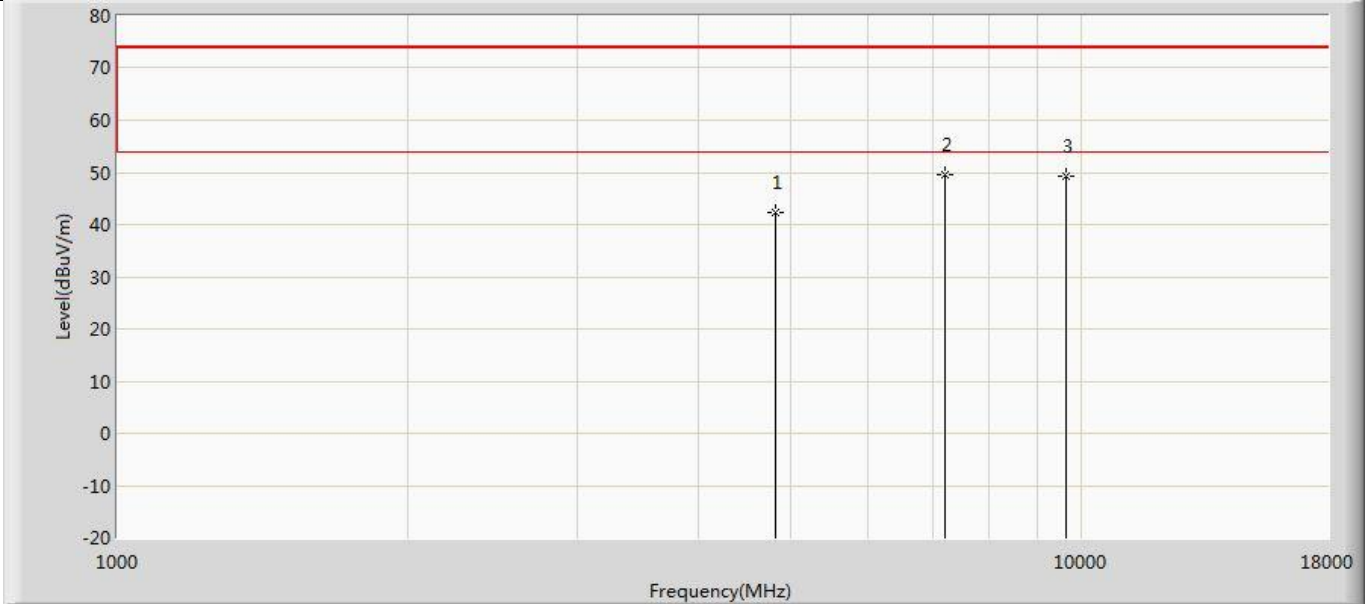
Profile: 2510003R	Page No.: 55
Engineer: Yu Liu	
Site: AC5	Time: 2025/01/16 - 19:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LED Lamp	Power: 120Vac/60Hz
Note: Mode 1 : Transmit at 2405MHz by Zigbee	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4810.000	41.462	53.502	-32.538	74.000	-12.040	PK
2		7215.000	47.923	54.623	-26.077	74.000	-6.699	PK
3	*	9620.000	49.228	52.931	-24.772	74.000	-3.703	PK



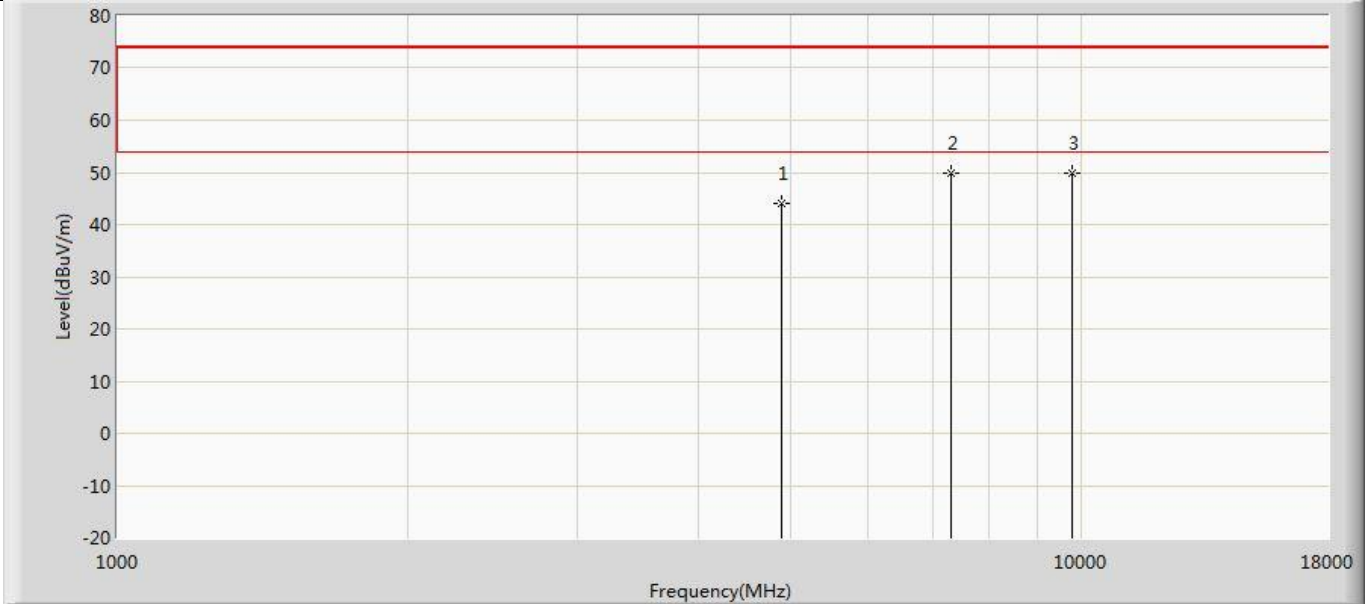
Profile: 2510003R	Page No.: 56
Engineer: Yu Liu	
Site: AC5	Time: 2025/01/16 - 19:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LED Lamp	Power: 120Vac/60Hz
Note: Mode 1 : Transmit at 2405MHz by Zigbee	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4810.000	42.209	54.249	-31.791	74.000	-12.040	PK
2	*	7205.000	49.653	56.197	-24.347	74.000	-6.544	PK
3		9620.000	49.234	52.937	-24.766	74.000	-3.703	PK

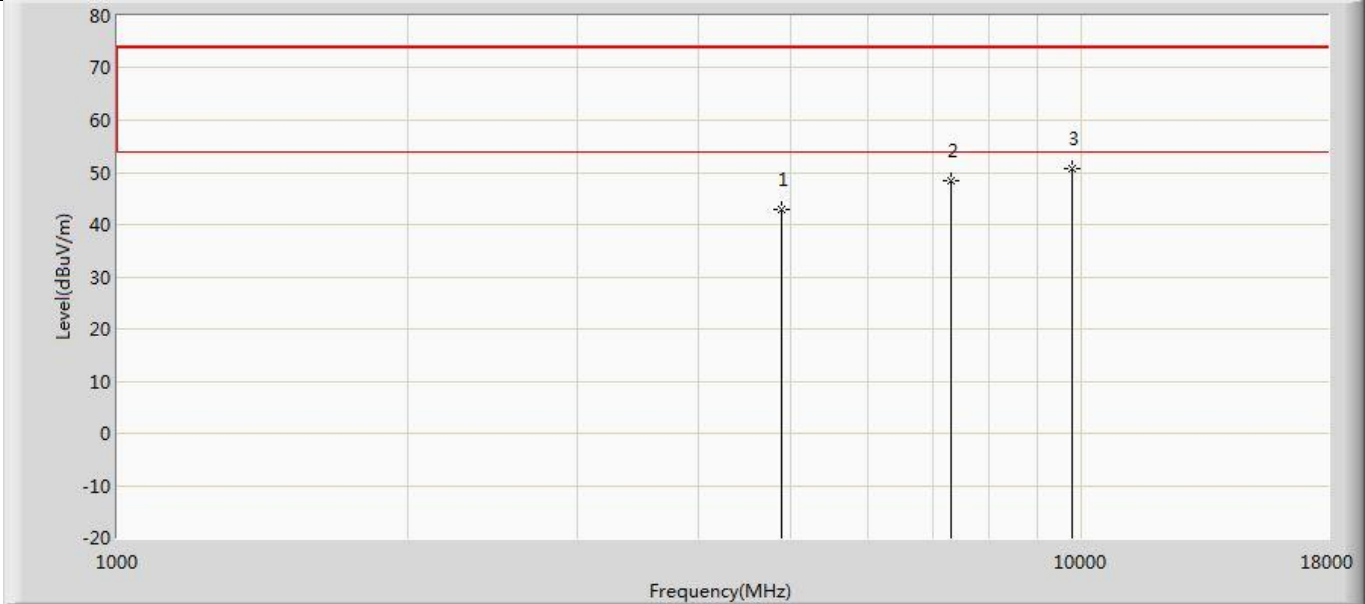


Profile: 2510003R	Page No.: 57
Engineer: Yu Liu	
Site: AC5	Time: 2025/01/16 - 19:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LED Lamp	Power: 120Vac/60Hz
Note: Mode 1 : Transmit at 2440MHz by Zigbee	



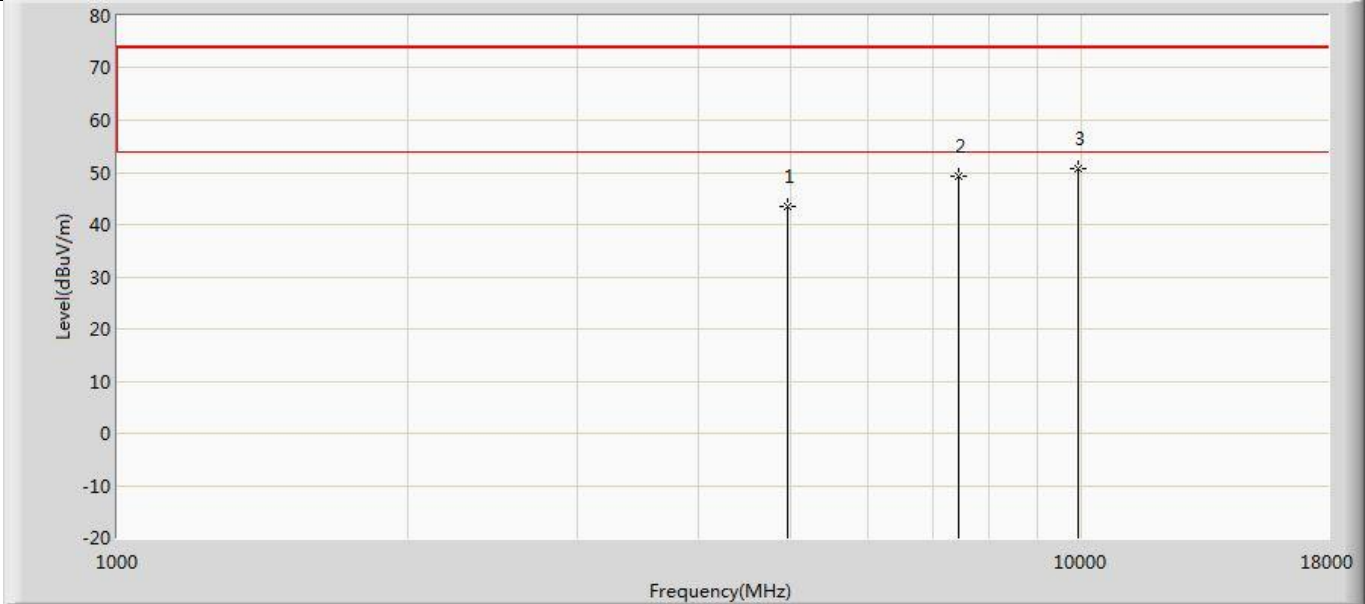
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4880.000	44.039	54.816	-29.961	74.000	-10.777	PK
2	*	7324.000	49.979	57.177	-24.021	74.000	-7.198	PK
3		9760.000	49.816	52.683	-24.184	74.000	-2.867	PK

Profile: 2510003R	Page No.: 58
Engineer: Yu Liu	
Site: AC5	Time: 2025/01/16 - 19:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LED Lamp	Power: 120Vac/60Hz
Note: Mode 1 : Transmit at 2440MHz by Zigbee	



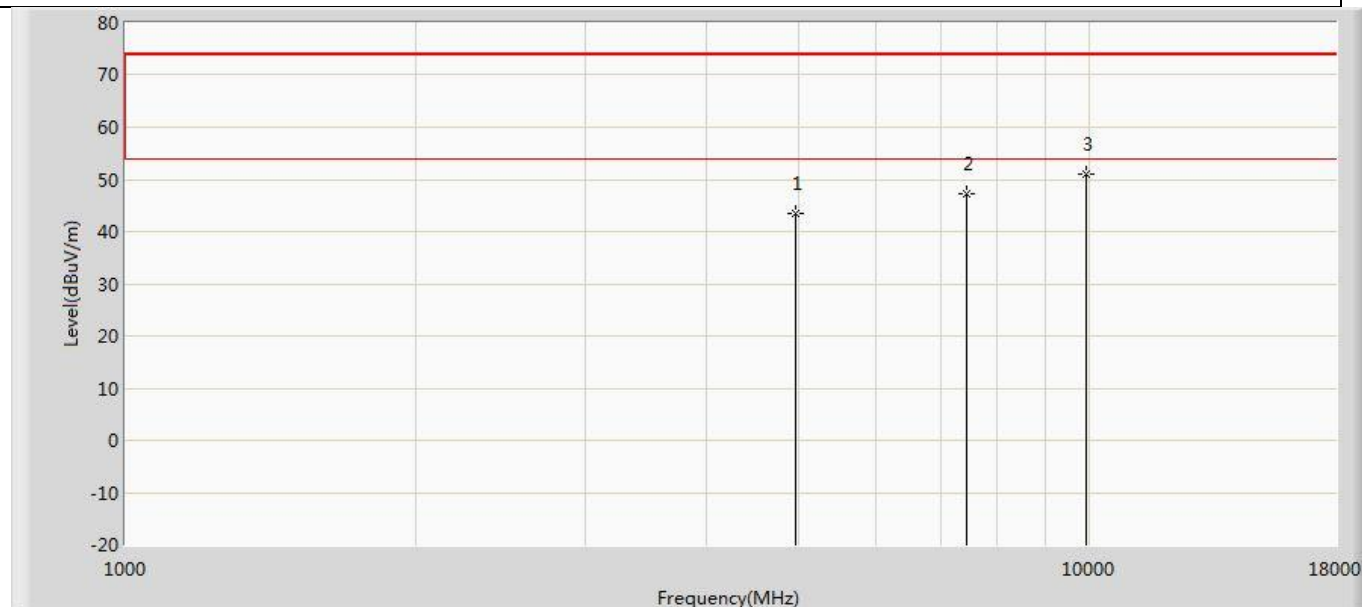
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4880.000	42.825	53.602	-31.175	74.000	-10.777	PK
2		7324.000	48.309	55.507	-25.691	74.000	-7.198	PK
3	*	9760.000	50.812	53.679	-23.188	74.000	-2.867	PK

Profile: 2510003R	Page No.: 59
Engineer: Yu Liu	
Site: AC5	Time: 2025/01/16 - 19:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LED Lamp	Power: 120Vac/60Hz
Note: Mode 1 : Transmit at 2480MHz by Zigbee	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4960.000	43.478	54.365	-30.522	74.000	-10.888	PK
2		7443.000	49.379	56.467	-24.621	74.000	-7.088	PK
3	*	9920.000	50.642	52.507	-23.358	74.000	-1.865	PK

Profile: 2510003R	Page No.: 60
Engineer: Yu Liu	
Site: AC5	Time: 2025/01/16 - 19:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LED Lamp	Power: 120Vac/60Hz
Note: Mode 1 : Transmit at 2480MHz by Zigbee	



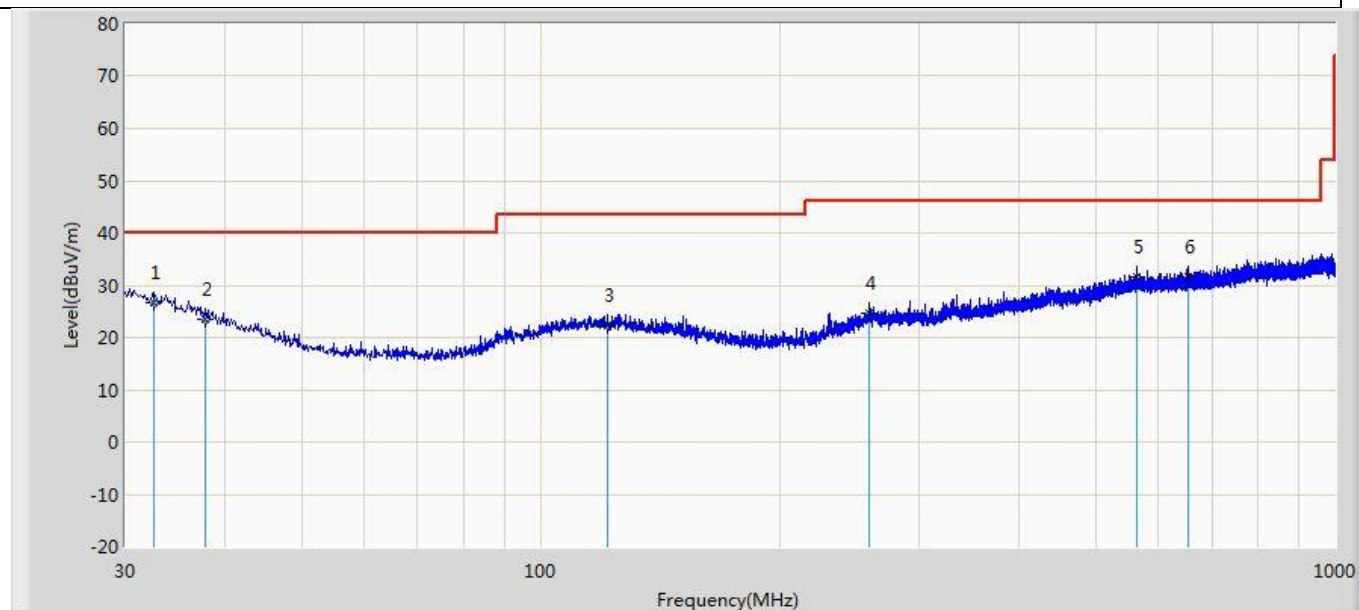
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4960.000	43.411	54.298	-30.589	74.000	-10.888	PK
2		7443.000	47.243	54.331	-26.757	74.000	-7.088	PK
3	*	9920.000	51.157	53.022	-22.843	74.000	-1.865	PK

Note:

1. Measured Level = Reading Level + Factor.
2. The test frequency range, 9kHz~30MHz, worst case are at least 20dB below the limits, therefore no data appear in the report.
3. The test frequency range, 18GHz~26GHz test result on peak is lower than average limit, all is the noise base, therefore no data appear in the report.
4. If the test result on peak is lower than average limit, then average measurement needn't be performed.

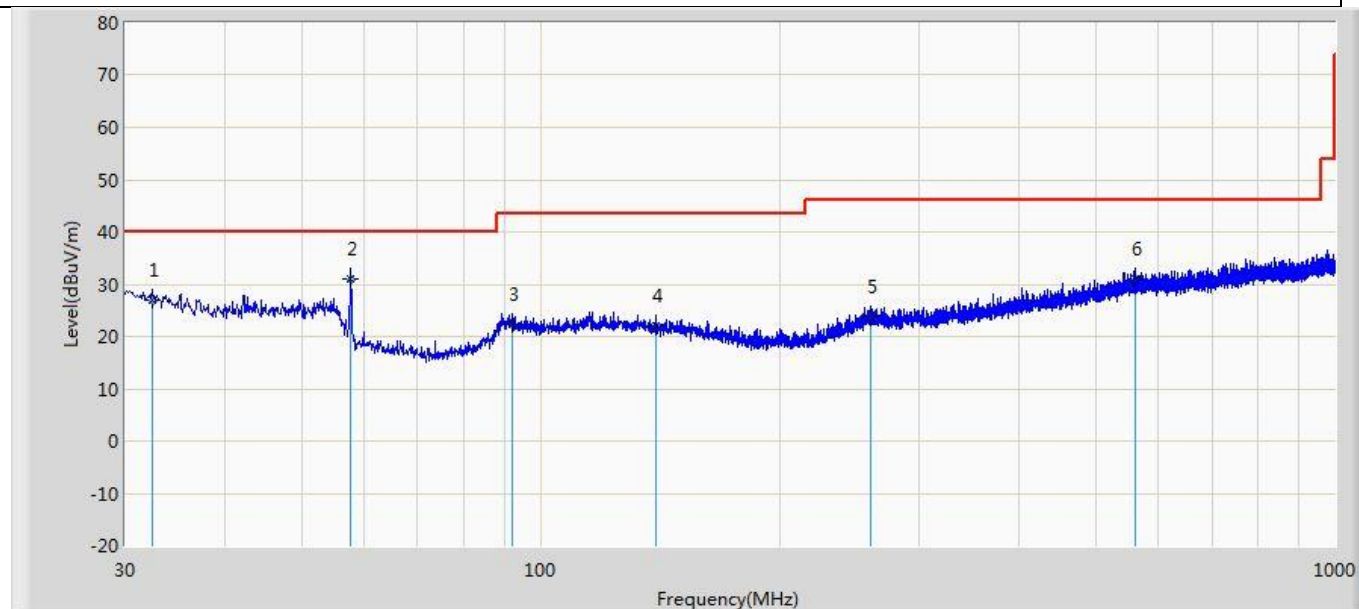
The worst case of Radiated Emission below 1GHz :

Profile: 2510003R	Page No.: 3
Engineer: Yu Liu	
Site: AC2	Time: 2025/01/16 - 19:29
Limit: FCC_Part 15.209	Margin: 0
Probe: CBL6112D_27613(30-1000MHz)	Polarity: Horizontal
EUT: LED Lamp	Power: 120Vac/60Hz
Note: Mode 1 : Transmit at 2405MHz by Zigbee	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	32.546	26.737	3.024	-13.263	40.000	23.713	QP
2		37.881	23.515	2.779	-16.485	40.000	20.736	QP
3		121.301	22.437	3.110	-21.063	43.500	19.327	QP
4		259.647	24.745	3.902	-21.255	46.000	20.843	QP
5		562.166	31.571	4.434	-14.429	46.000	27.137	QP
6		652.619	31.600	4.140	-14.400	46.000	27.461	QP

Profile: 2510003R	Page No.: 4
Engineer: Yu Liu	
Site: AC2	Time: 2025/01/16 - 19:29
Limit: FCC_Part 15.209	Margin: 0
Probe: CBL6112D_27613(30-1000MHz)	Polarity: Vertical
EUT: LED Lamp	Power: 120Vac/60Hz
Note: Mode 1 : Transmit at 2405MHz by Zigbee	



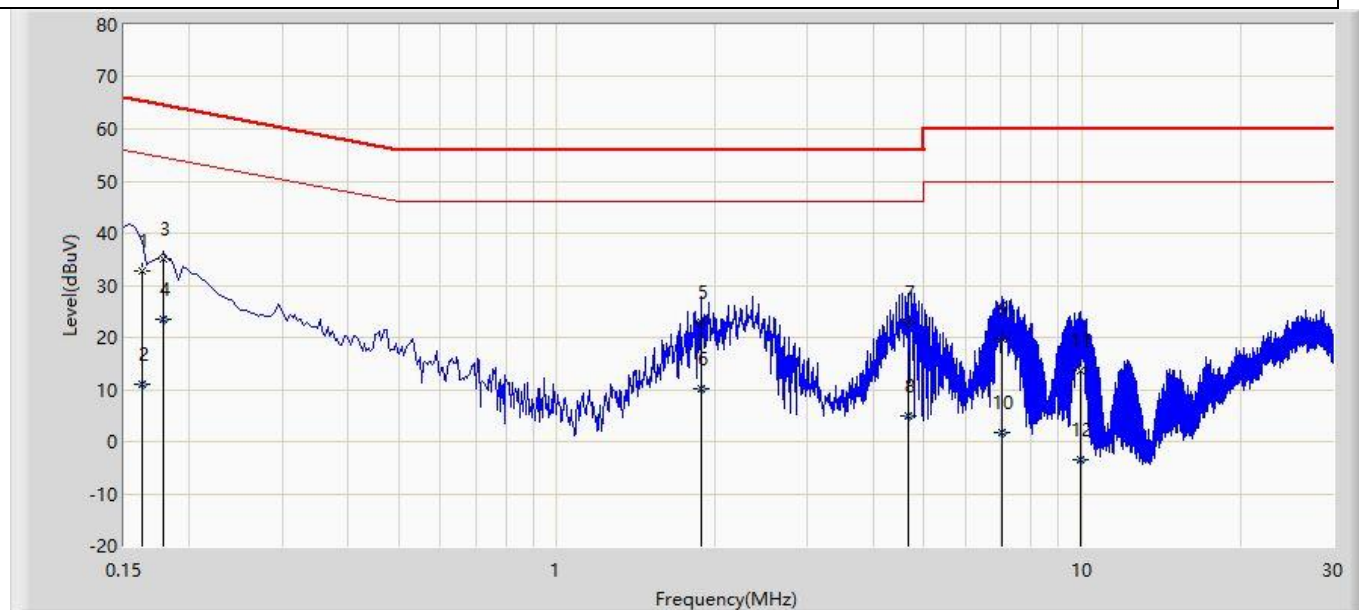
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		32.425	26.886	3.118	-13.114	40.000	23.768	QP
2	*	57.645	31.134	17.825	-8.866	40.000	13.309	QP
3		92.201	22.314	5.915	-21.186	43.500	16.399	QP
4		139.731	22.101	3.809	-21.399	43.500	18.292	QP
5		260.011	23.664	2.800	-22.336	46.000	20.864	QP
6		559.620	30.989	3.853	-15.011	46.000	27.136	QP

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp)

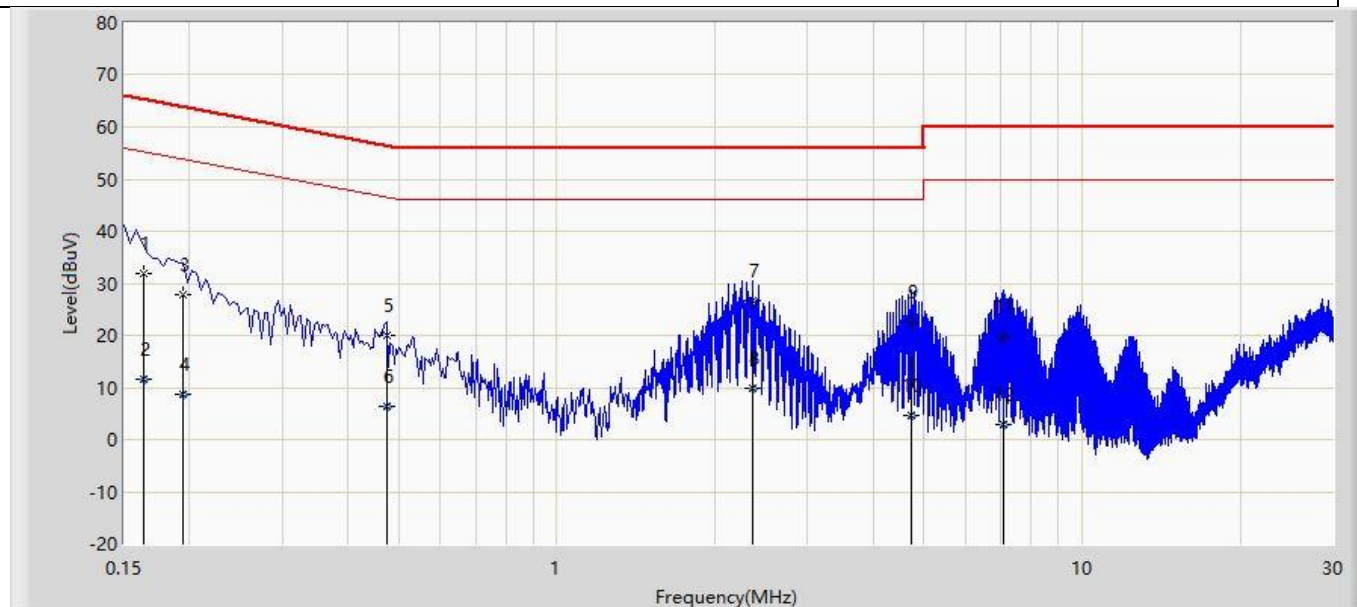
Appendix I: AC Power Line Conducted Emission

Profile: 2510003R	Page No.: 1
Engineer: Yu Liu	
Site: TR1	Time: 2025/01/16 - 19:40
Limit: FCC_Part 15.207	Margin: 0
Probe: ENV216_101189(0.009-30MHz)	Polarity: Line
EUT: LED Lamp	Power: 120Vac/60Hz
Note: Mode 1 : Transmit at 2405MHz by Zigbee	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.162	32.674	23.050	-32.706	65.380	9.624	QP
2		0.162	11.066	1.441	-44.315	55.380	9.624	AV
3	*	0.178	34.947	25.324	-29.632	64.578	9.623	QP
4		0.178	23.342	13.719	-31.236	54.578	9.623	AV
5		1.886	22.939	13.247	-33.061	56.000	9.692	QP
6		1.886	10.025	0.333	-35.975	46.000	9.692	AV
7		4.662	22.901	13.148	-33.099	56.000	9.753	QP
8		4.662	5.046	-4.707	-40.954	46.000	9.753	AV
9		7.022	19.663	9.846	-40.337	60.000	9.817	QP
10		7.022	1.732	-8.085	-48.268	50.000	9.817	AV
11		9.918	13.662	3.793	-46.338	60.000	9.869	QP
12		9.918	-3.346	-13.215	-53.346	50.000	9.869	AV

Profile: 2510003R	Page No.: 2
Engineer: Yu Liu	
Site: TR1	Time: 2025/01/16 - 19:43
Limit: FCC_Part 15.207	Margin: 0
Probe: ENV216_101189(0.009-30MHz)	Polarity: Neutral
EUT: LED Lamp	Power: 120Vac/60Hz
Note: Mode 1 : Transmit at 2405MHz by Zigbee	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.163	31.914	22.284	-33.397	65.311	9.630	QP
2		0.163	11.697	2.066	-43.615	55.311	9.630	AV
3		0.194	27.777	18.145	-36.086	63.864	9.632	QP
4		0.194	8.570	-1.062	-45.294	53.864	9.632	AV
5		0.474	20.054	10.409	-36.390	56.444	9.645	QP
6		0.474	6.345	-3.300	-40.098	46.444	9.645	AV
7	*	2.362	26.534	16.826	-29.466	56.000	9.707	QP
8		2.362	9.744	0.036	-36.256	46.000	9.707	AV
9		4.726	22.675	12.910	-33.325	56.000	9.765	QP
10		4.726	4.695	-5.070	-41.305	46.000	9.765	AV
11		7.090	19.581	9.762	-40.419	60.000	9.819	QP
12		7.090	2.805	-7.014	-47.195	50.000	9.819	AV

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp)

The End