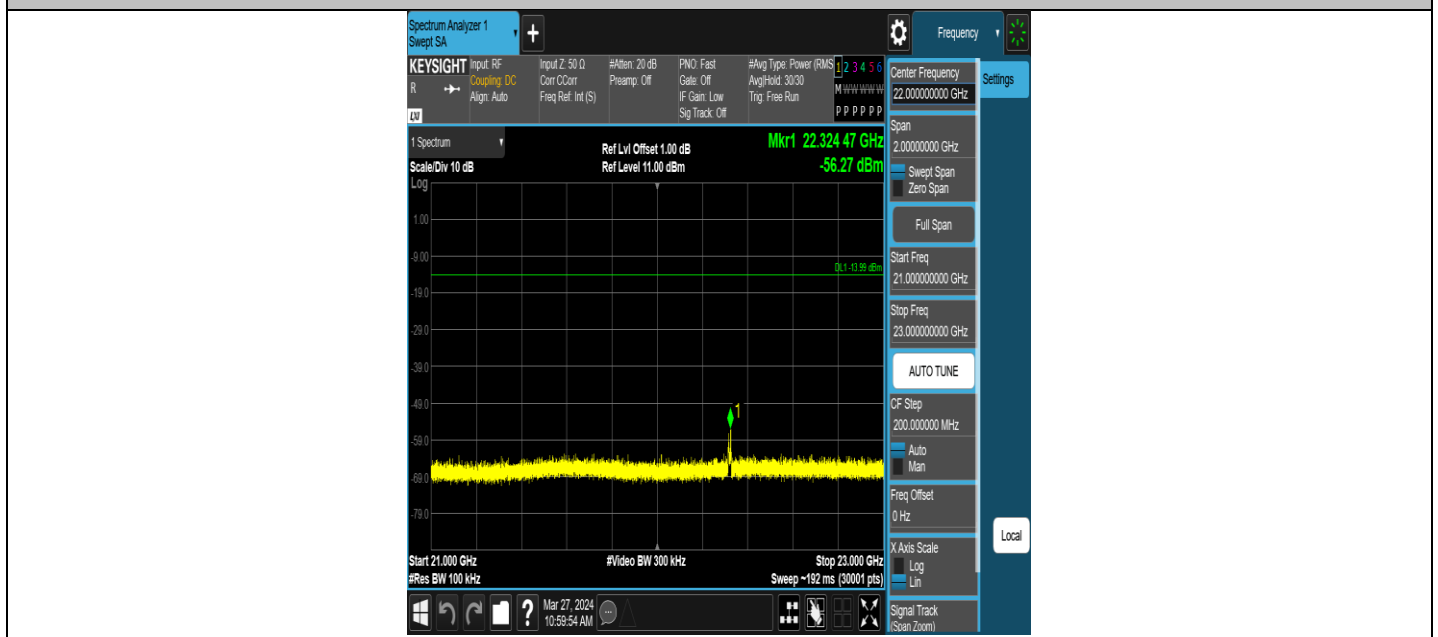
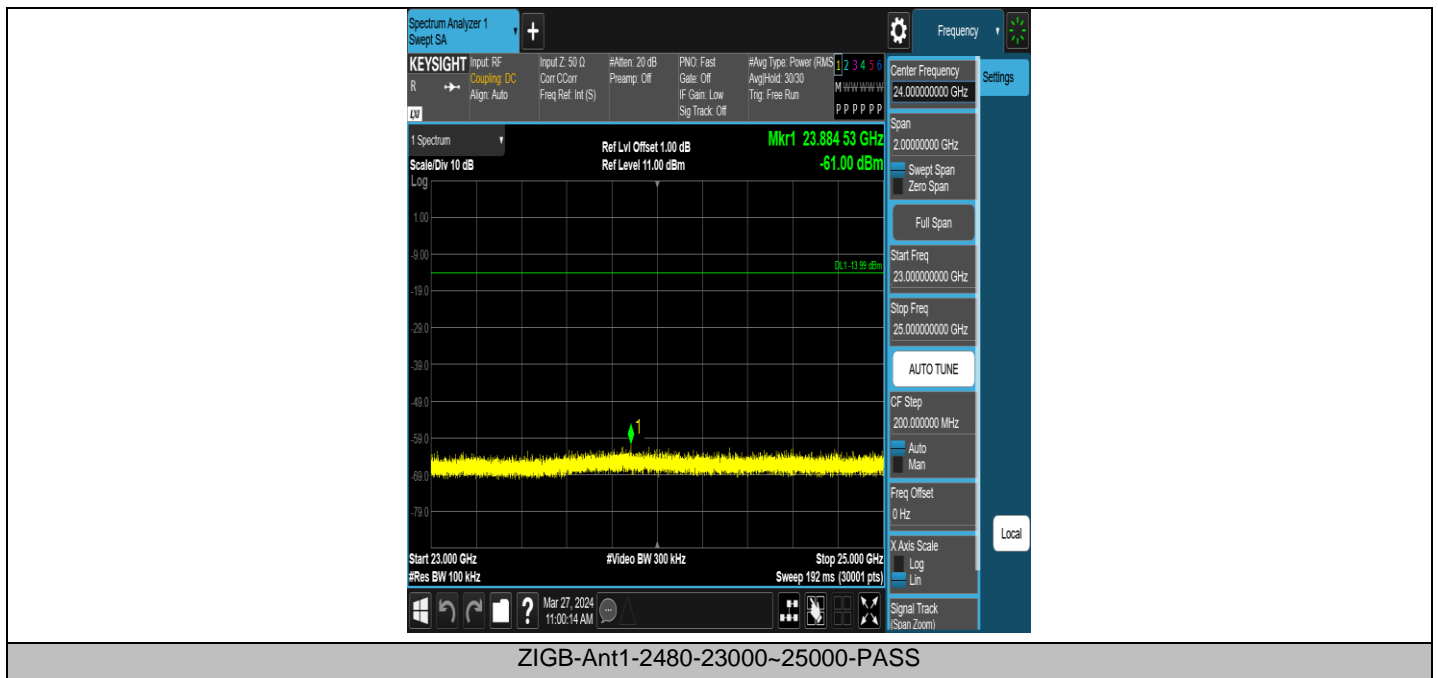


ZIGB-Ant1-2480-19000~21000-PASS

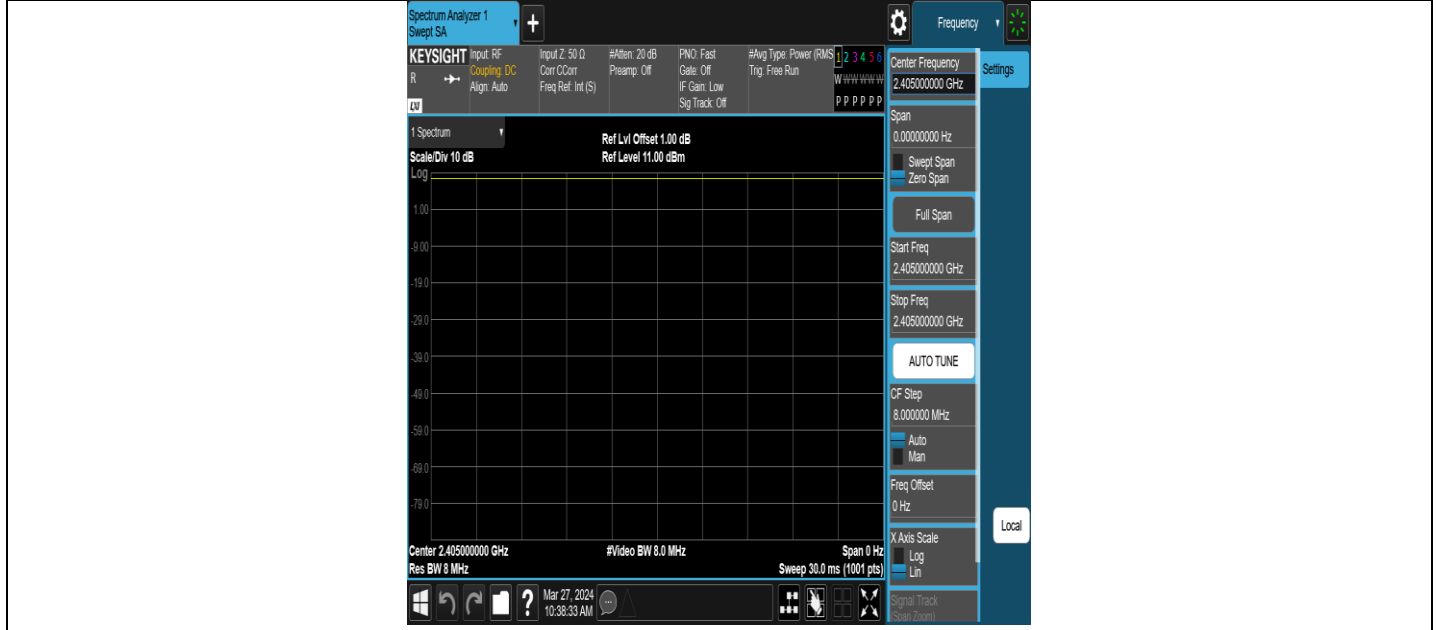


ZIGB-Ant1-2480-21000~23000-PASS

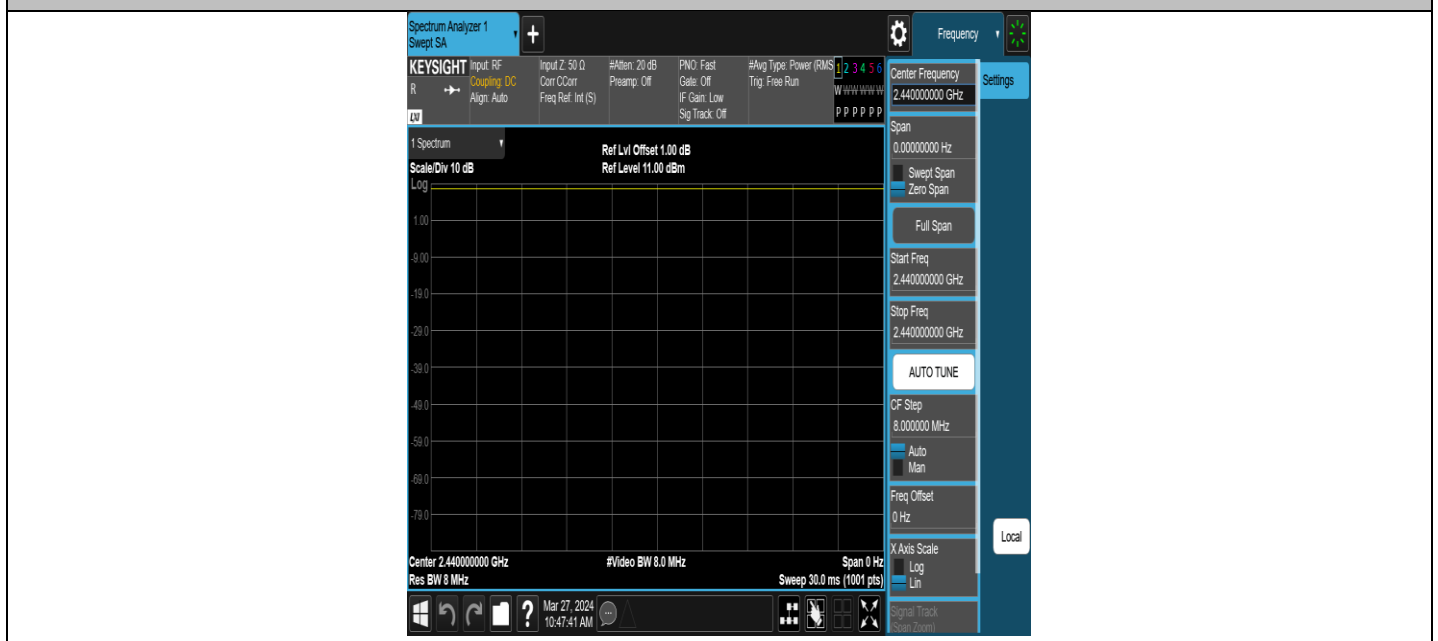


Appendix G: Duty Cycle

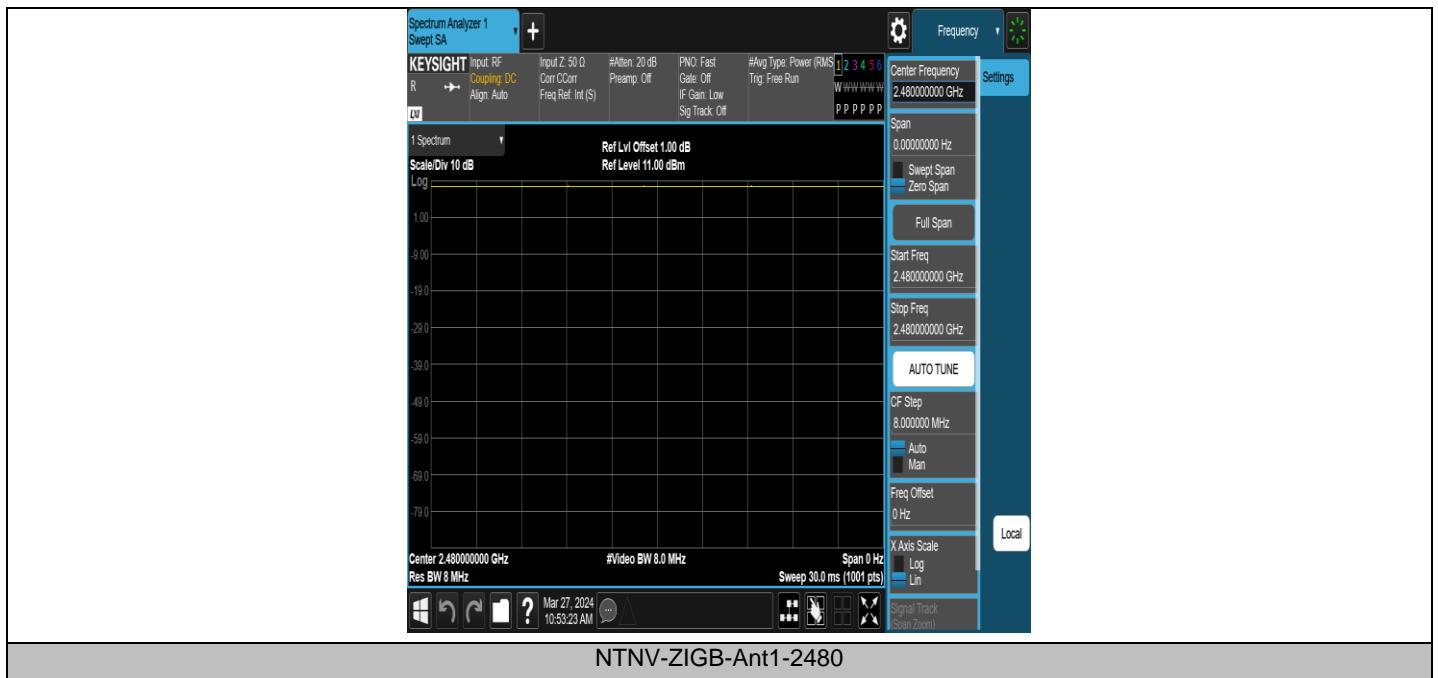
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit
ZIGB	Ant1	2405	0.00	0.00	100	N/A
ZIGB	Ant1	2440	0.00	0.00	100	N/A
ZIGB	Ant1	2480	0.00	0.00	100	N/A



NTNV-ZIGB-Ant1-2405



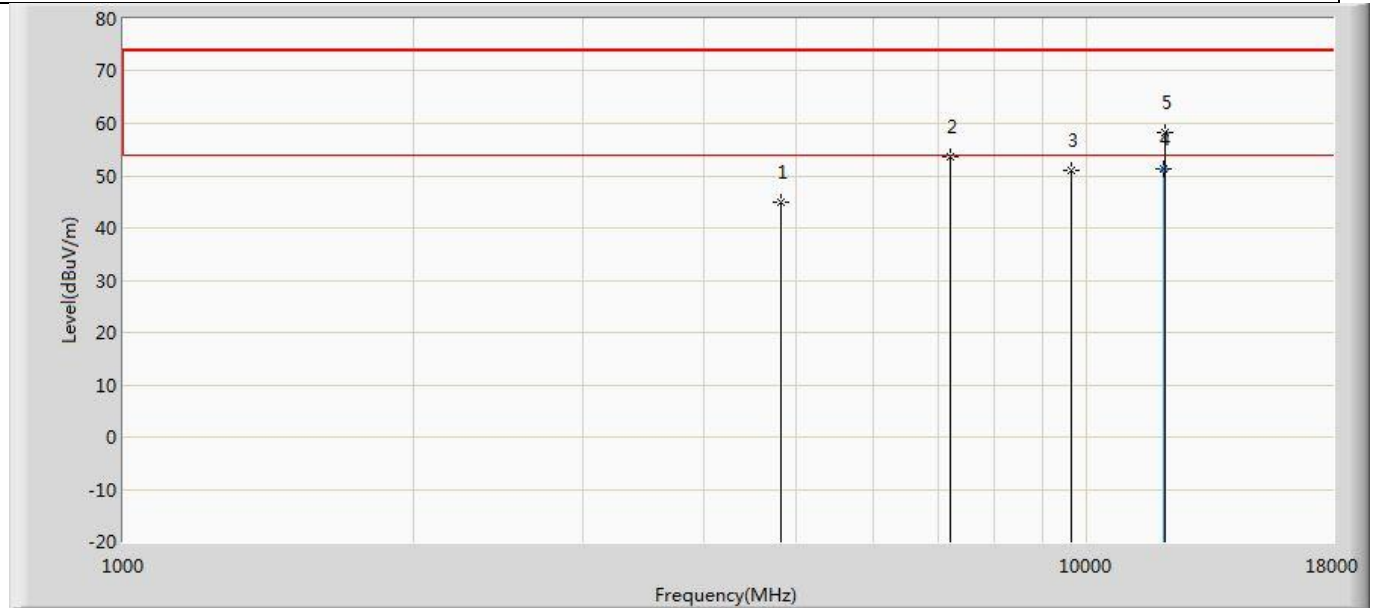
NTNV-ZIGB-Ant1-2440



NTNV-ZIGB-Ant1-2480

Appendix H: Emissions in Restricted Bands

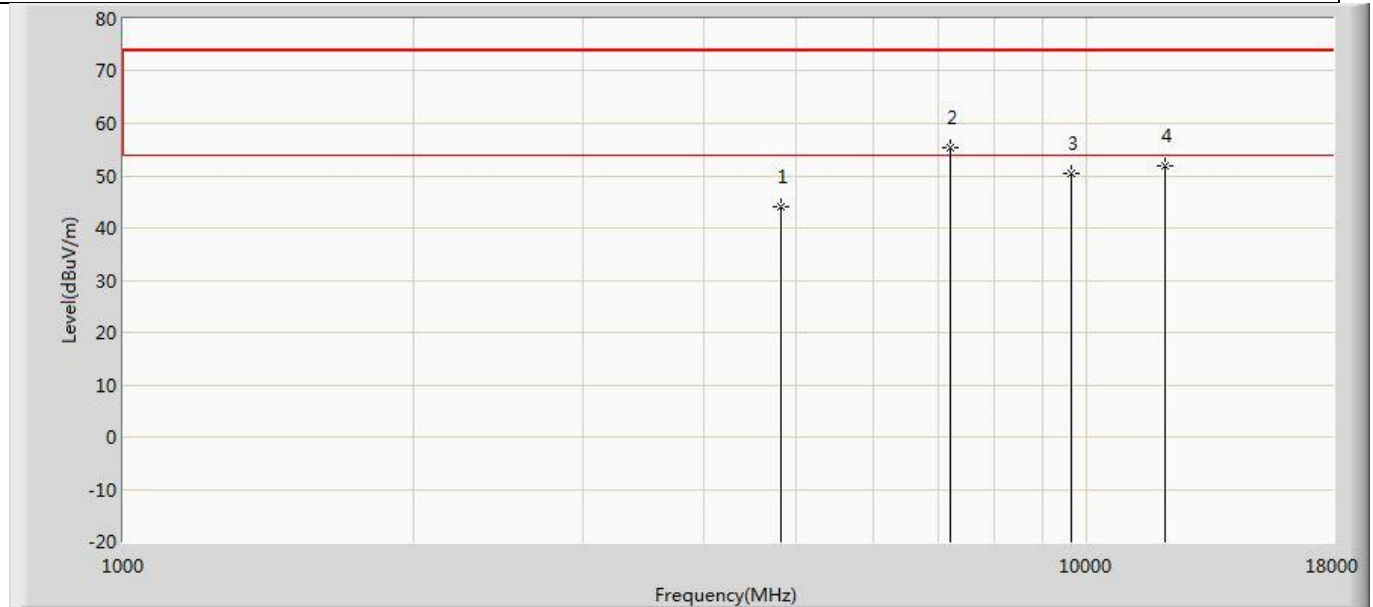
Profile: 2430635R	Page No.: 55
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/04/10 - 07:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: LED lamp	Power: 120 Vac / 60 Hz
Note: Mode 1 : Transmit at 2405MHz by Zigbee	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4810.000	44.954	56.826	-29.046	74.000	-11.873	PK
2		7205.000	53.503	59.653	N/A	N/A	-6.150	PK
3		9620.000	51.052	54.807	-22.948	74.000	-3.755	PK
4	*	12022.280	51.370	50.550	-2.630	54.000	0.821	AV
5		12033.000	58.359	56.525	-15.641	74.000	1.834	PK

Note: The No. 2 is non-restricted bands, so the limit is Fundamental emission down 20dB, and then we evaluated each channel, it complies with the RSE requirements.

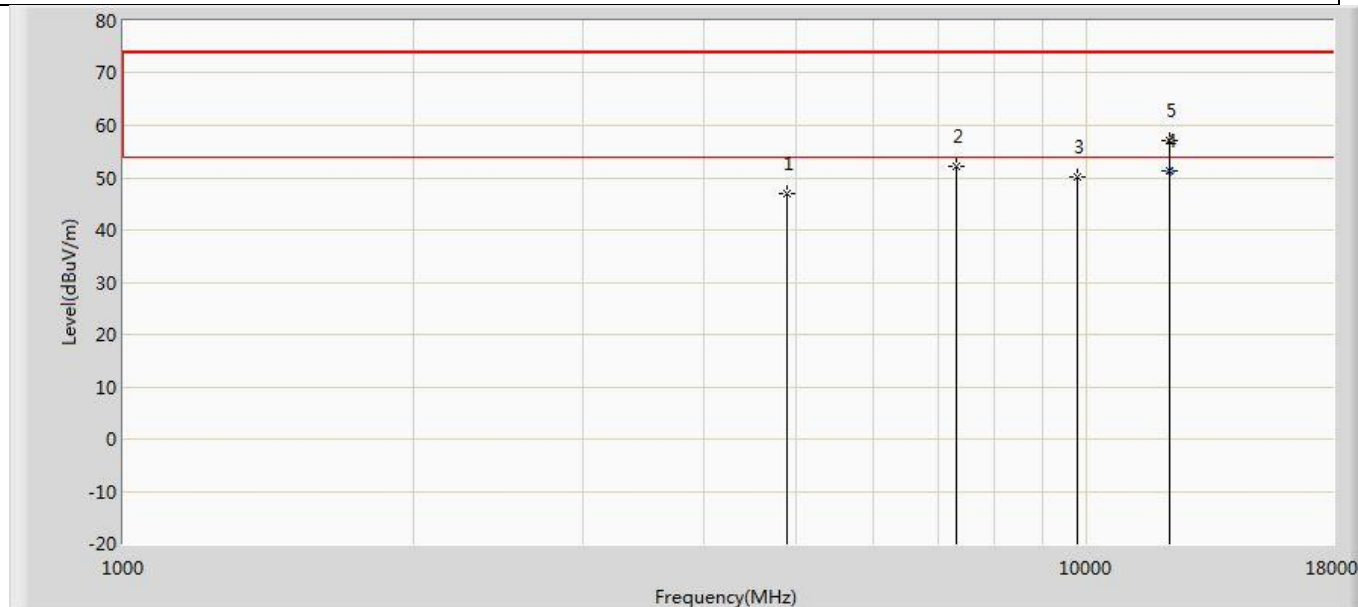
Profile: 2430635R	Page No.: 56
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/04/10 - 07:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: LED lamp	Power: 120 Vac / 60 Hz
Note: Mode 1 : Transmit at 2405MHz by Zigbee	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4810.000	44.083	55.955	-29.917	74.000	-11.873	PK
2	*	7205.000	55.374	61.524	N/A	N/A	-6.150	PK
3		9620.000	50.315	54.070	-23.685	74.000	-3.755	PK
4		12033.000	52.028	50.194	-21.972	74.000	1.834	PK

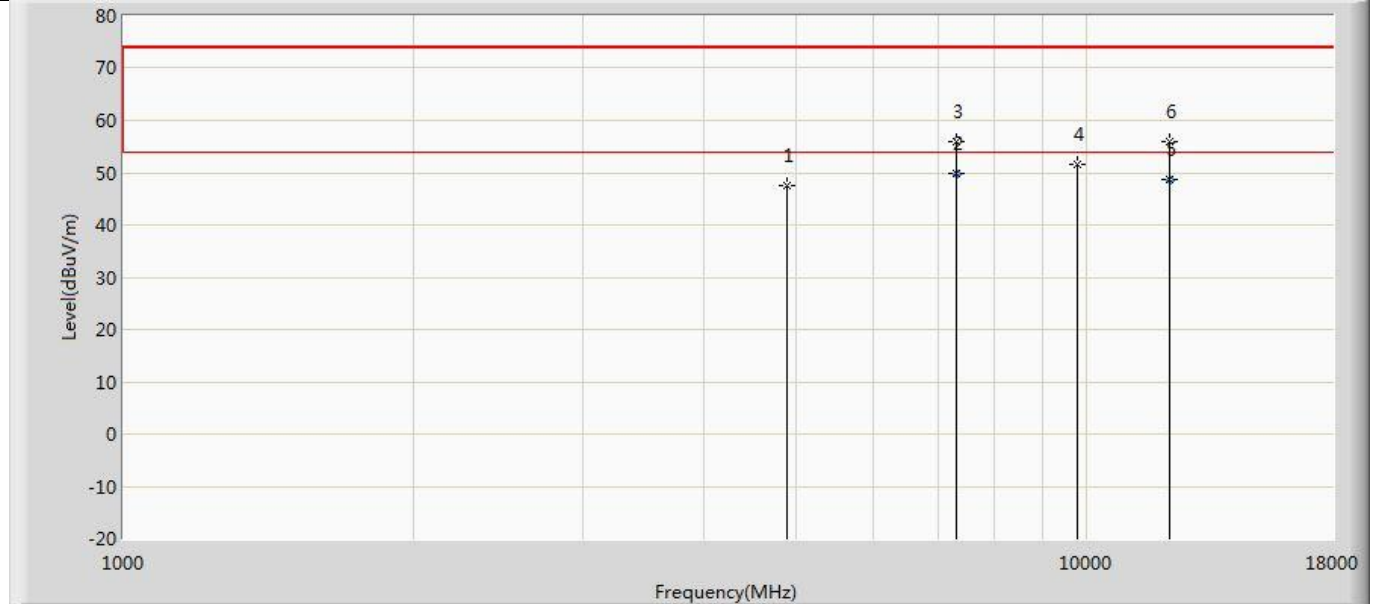
Note: The No. 2 is non-restricted bands, so the limit is Fundamental emission down 20dB, and then we evaluated each channel, it complies with the RSE requirements.

Profile: 2430635R	Page No.: 57
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/04/10 - 07:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: LED lamp	Power: 120 Vac / 60 Hz
Note: Mode 1 : Transmit at 2440MHz by Zigbee	



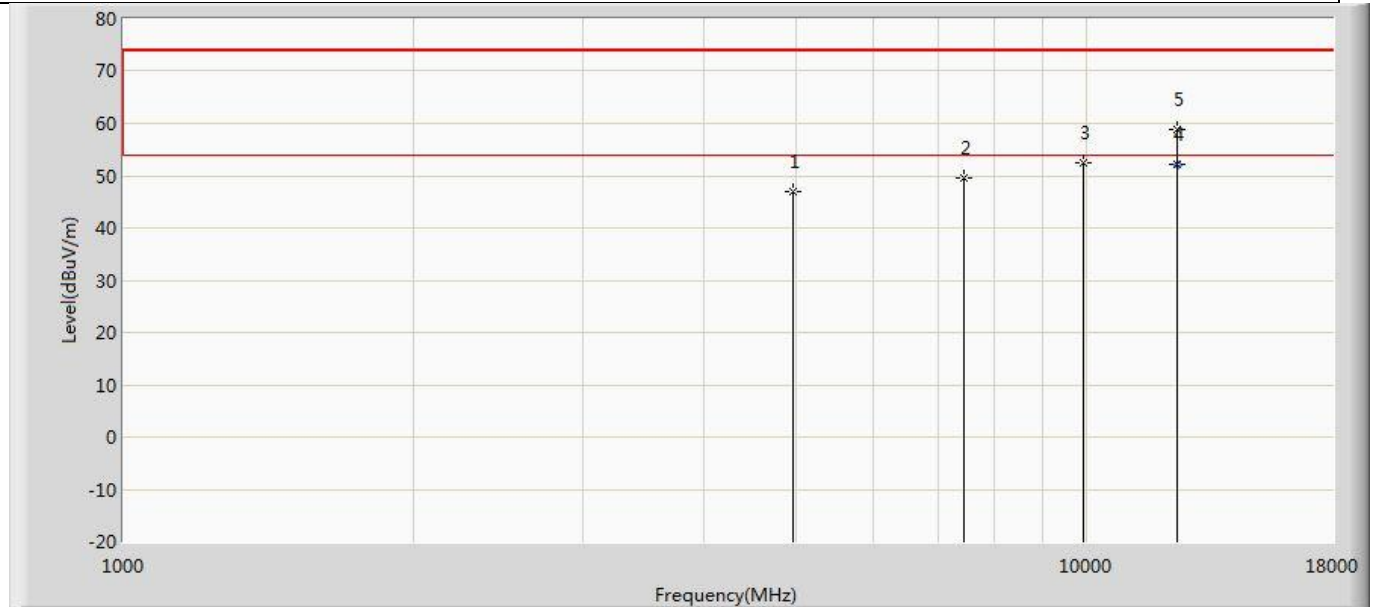
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4876.000	46.958	57.385	-27.042	74.000	-10.427	PK
2		7324.000	52.277	59.112	-21.723	74.000	-6.835	PK
3		9760.000	50.122	52.995	-23.878	74.000	-2.874	PK
4	*	12202.760	51.294	50.340	-2.706	54.000	0.954	AV
5		12203.000	57.118	56.161	-16.882	74.000	0.957	PK

Profile: 2430635R	Page No.: 58
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/04/10 - 07:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: LED lamp	Power: 120 Vac / 60 Hz
Note: Mode 1 : Transmit at 2440MHz by Zigbee	



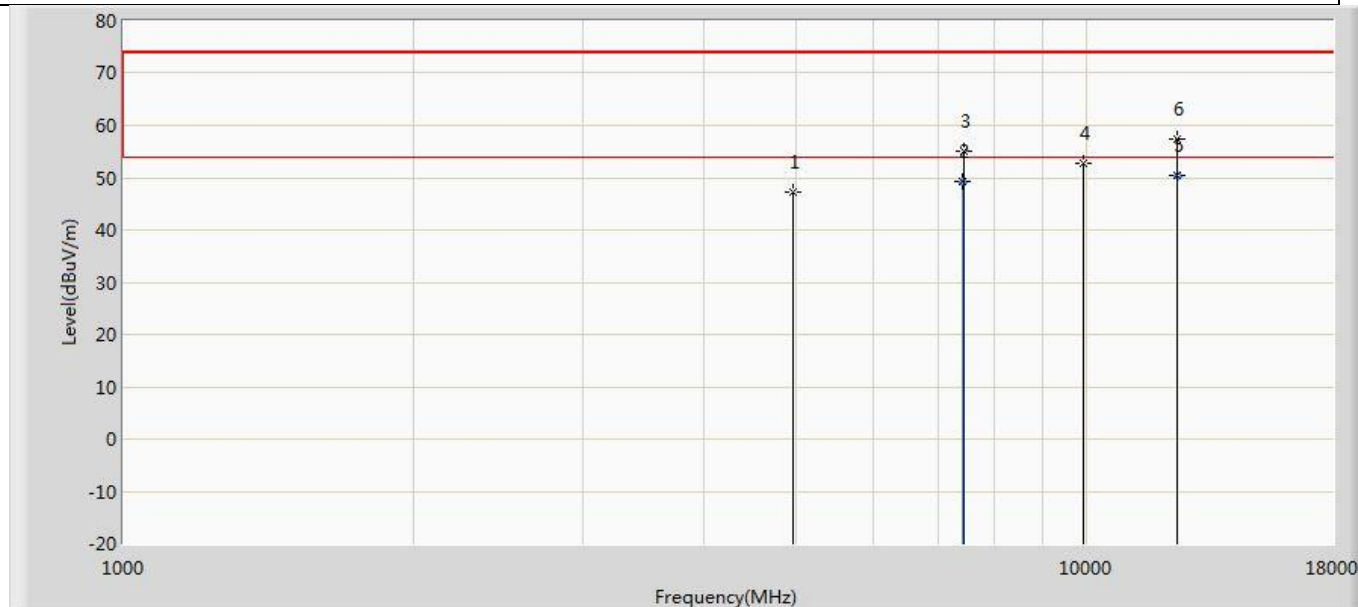
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4876.000	47.558	57.985	-26.442	74.000	-10.427	PK
2	*	7321.620	49.790	56.680	-4.210	54.000	-6.890	AV
3		7324.000	55.928	62.763	-18.072	74.000	-6.835	PK
4		9760.000	51.513	54.386	-22.487	74.000	-2.874	PK
5		12197.220	48.647	47.760	-5.353	54.000	0.887	AV
6		12203.000	55.864	54.907	-18.136	74.000	0.957	PK

Profile: 2430635R	Page No.: 59
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/04/10 - 07:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: LED lamp	Power: 120 Vac / 60 Hz
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		4961.000	46.827	57.498	-27.173	74.000	-10.671	PK
2		7443.000	49.617	56.374	-24.383	74.000	-6.757	PK
3		9920.000	52.363	54.185	-21.637	74.000	-1.821	PK
4	*	12402.660	52.138	49.360	-1.862	54.000	2.778	AV
5		12407.000	58.707	55.758	-15.293	74.000	2.949	PK

Profile: 2430635R	Page No.: 60
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/04/10 - 07:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: LED lamp	Power: 120 Vac / 60 Hz
Note: Mode 1 : Transmit at 2480MHz by Zigbee	



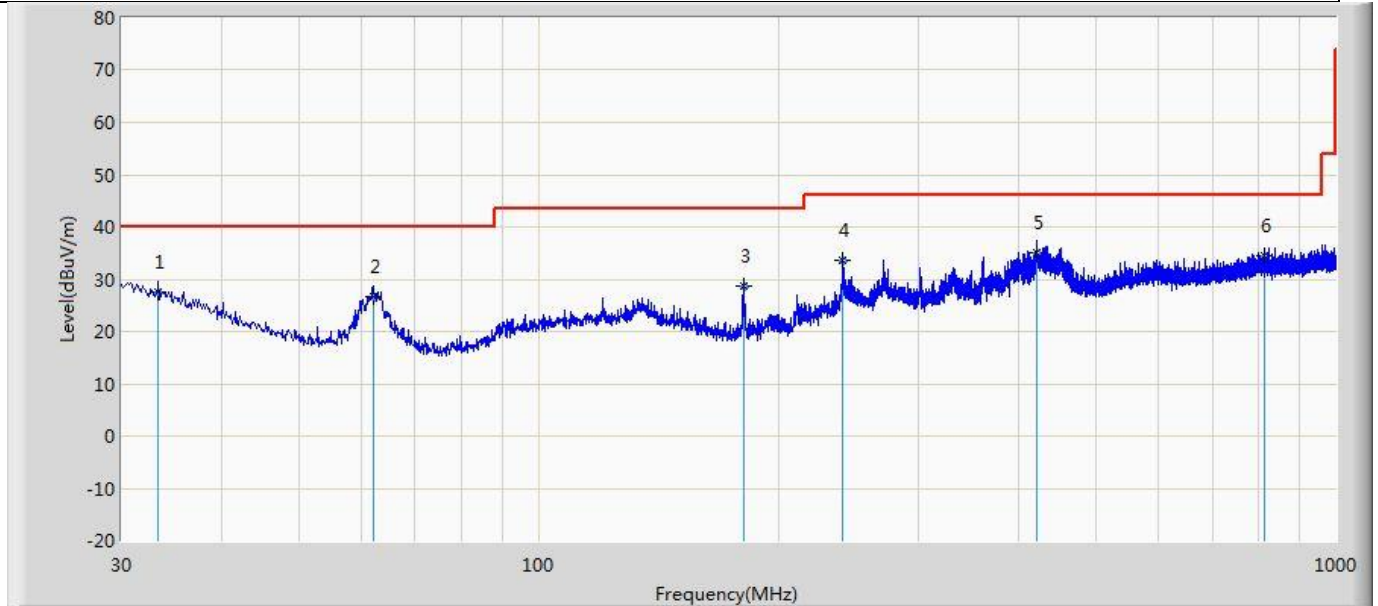
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4961.000	47.314	57.985	-26.686	74.000	-10.671	PK
2		7438.520	49.131	55.920	-4.869	54.000	-6.789	AV
3		7443.000	55.002	61.759	-18.998	74.000	-6.757	PK
4		9920.000	52.771	54.593	-21.229	74.000	-1.821	PK
5	*	12402.660	50.338	47.560	-3.662	54.000	2.778	AV
6		12407.000	57.450	54.501	-16.550	74.000	2.949	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.

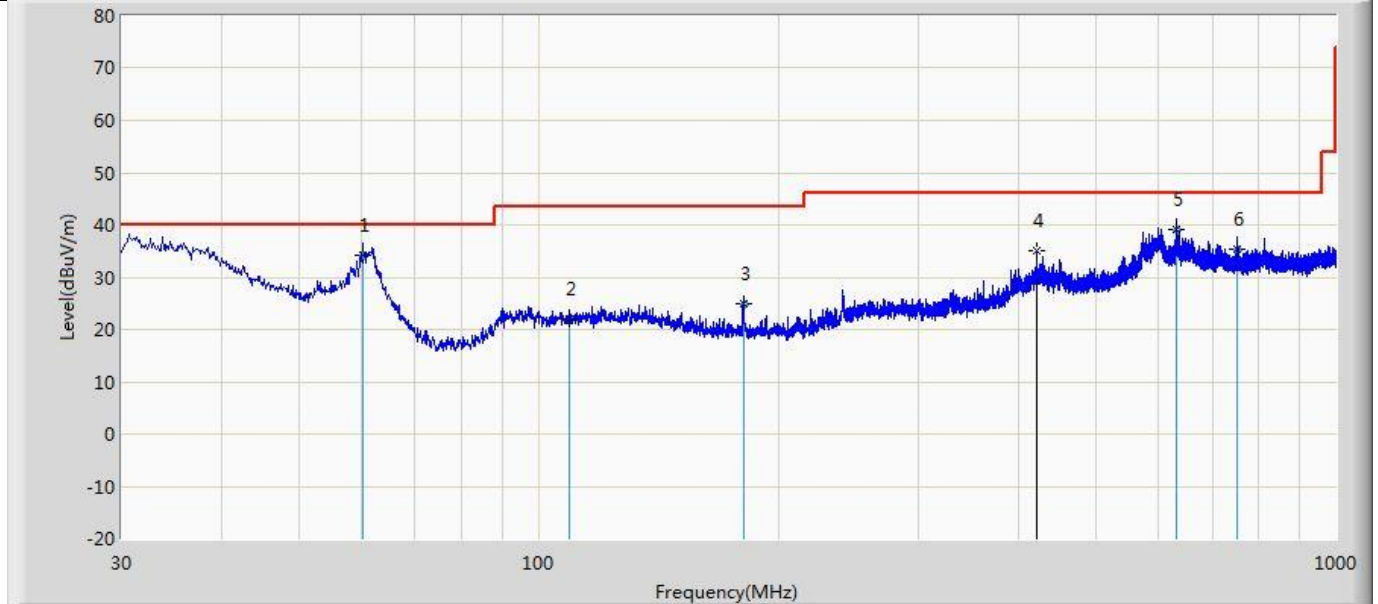
The worst case of Radiated Emission below 1GHz :

Profile: 2430635R	Page No.: 115
Engineer: Pengchengyang	
Site: AC2	Time: 2024/03/27 - 08:00
Limit: FCC_Part 15.209	Margin: 0
Probe: CBL6112D_27613(30-1000MHz)	Polarity: Horizontal
EUT: LED lamp	Power: 120 Vac / 60 Hz
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		33.395	27.587	4.299	-12.413	40.000	23.288	QP
2		62.010	26.680	13.650	-13.320	40.000	13.030	QP
3		180.714	28.742	12.331	-14.758	43.500	16.411	QP
4		240.975	33.761	14.951	-12.239	46.000	18.810	QP
5	*	422.244	35.134	11.052	-10.866	46.000	24.082	QP
6		814.730	34.420	5.036	-11.580	46.000	29.384	QP

Profile: 2430635R	Page No.: 116
Engineer: Pengchengyang	
Site: AC2	Time: 2024/03/27 - 08:00
Limit: FCC_Part 15.209	Margin: 0
Probe: CBL6112D_27613(30-1000MHz)	Polarity: Vertical
EUT: LED lamp	Power: 120 Vac / 60 Hz
Note: Mode 1 : Transmit at 2440MHz by Zigbee	



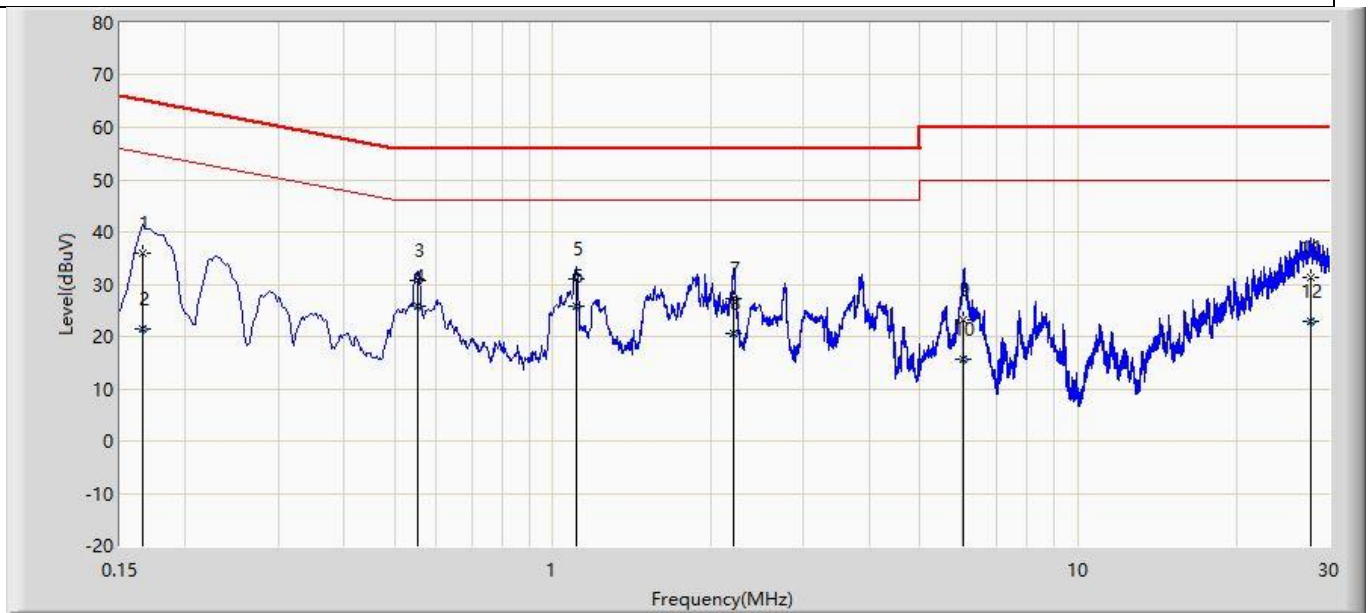
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	60.191	34.240	21.131	-5.760	40.000	13.110	QP
2		109.298	21.966	2.981	-21.534	43.500	18.985	QP
3		180.714	24.920	8.509	-18.580	43.500	16.411	QP
4		422.244	35.048	10.966	-10.952	46.000	24.082	PK
5		631.036	39.130	11.793	-6.870	46.000	27.337	QP
6		753.135	35.366	6.846	-10.634	46.000	28.520	QP

Note:

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

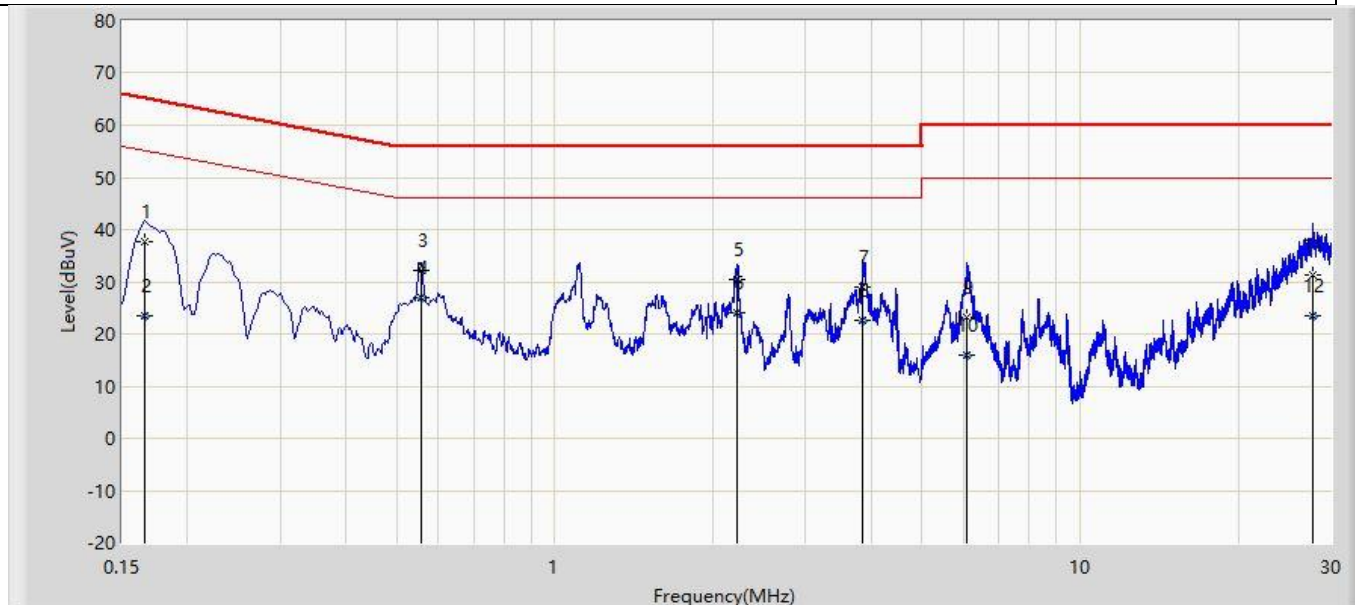
Appendix I: AC Power Line Conducted Emission

Profile: 2430635R	Page No.: 43
Engineer: Pengchengyang	
Site: TR1	Time: 2024/03/27 - 07:37
Limit: FCC_Part 15.207	Margin: 0
Probe: ENV216_101189(0.009-30MHz)	Polarity: Line
EUT: LED lamp	Power: 120 Vac / 60 Hz
Note: Mode 1 : Transmit at 2440MHz by Zigbee	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.166	35.905	26.281	-29.265	65.171	9.624	QP
2		0.166	21.592	11.968	-33.579	55.171	9.624	AV
3		0.553	30.752	21.113	-25.248	56.000	9.639	QP
4	*	0.553	25.837	16.198	-20.163	46.000	9.639	AV
5		1.109	30.956	21.283	-25.044	56.000	9.673	QP
6		1.109	25.722	16.049	-20.278	46.000	9.673	AV
7		2.213	27.294	17.594	-28.706	56.000	9.700	QP
8		2.213	20.575	10.875	-25.425	46.000	9.700	AV
9		6.059	23.144	13.354	-36.856	60.000	9.790	QP
10		6.059	15.533	5.743	-34.467	50.000	9.790	AV
11		27.634	31.227	21.150	-28.773	60.000	10.077	QP
12		27.634	22.974	12.898	-27.026	50.000	10.077	AV

Profile: 2430635R	Page No.: 44
Engineer: Pengchengyang	
Site: TR1	Time: 2024/03/27 - 07:37
Limit: FCC_Part 15.207	Margin: 0
Probe: ENV216_101189(0.009-30MHz)	Polarity: Neutral
EUT: LED lamp	Power: 120 Vac / 60 Hz
Note: Mode 1 : Transmit at 2440MHz by Zigbee	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.166	37.606	27.975	-27.565	65.171	9.631	QP
2		0.166	23.564	13.933	-31.607	55.171	9.631	AV
3		0.557	32.092	22.442	-23.908	56.000	9.649	QP
4	*	0.557	27.006	17.356	-18.994	46.000	9.649	AV
5		2.227	30.381	20.678	-25.619	56.000	9.703	QP
6		2.227	24.004	14.302	-21.996	46.000	9.703	AV
7		3.856	28.893	19.146	-27.107	56.000	9.747	QP
8		3.856	22.529	12.782	-23.471	46.000	9.747	AV
9		6.092	23.125	13.329	-36.875	60.000	9.796	QP
10		6.092	15.815	6.019	-34.185	50.000	9.796	AV
11		27.715	31.205	21.088	-28.795	60.000	10.117	QP
12		27.715	23.561	13.444	-26.439	50.000	10.117	AV

Note:

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

The End