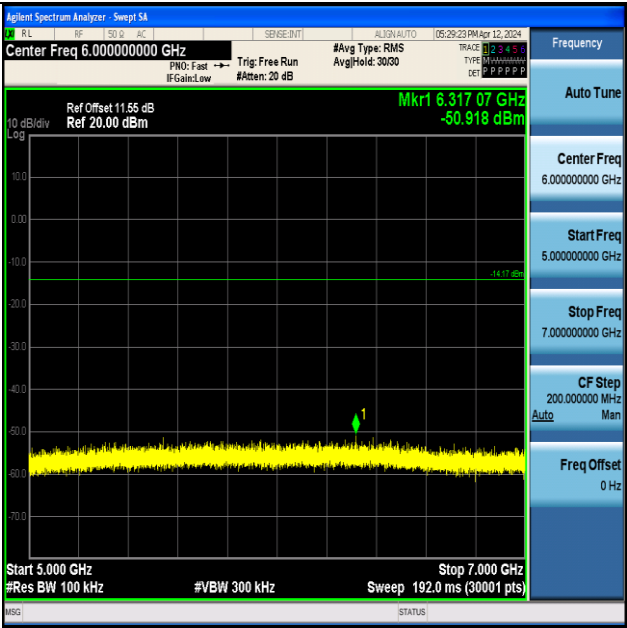
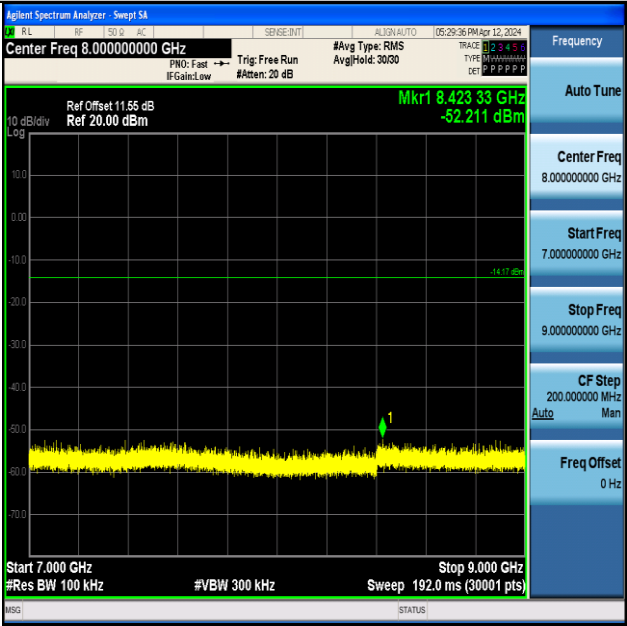
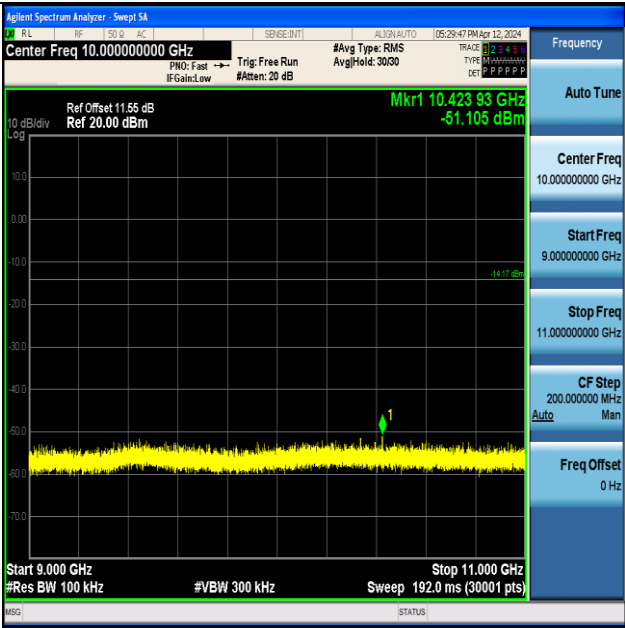




ZIGB-Ant1-2440-5000~7000-PASS



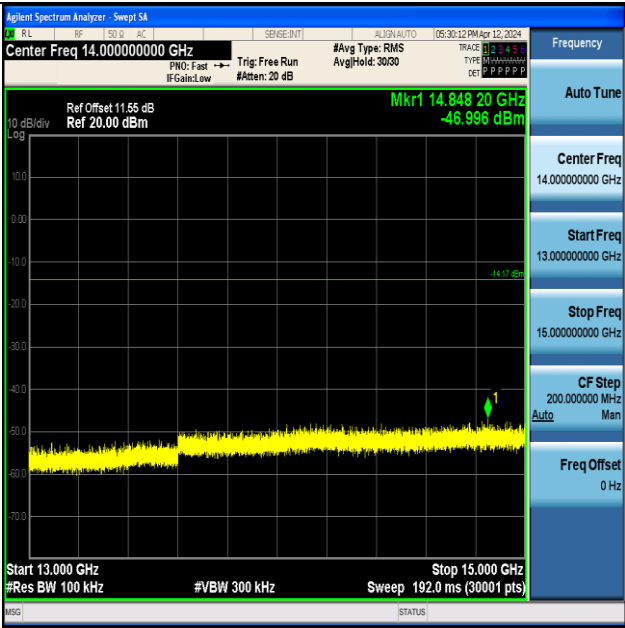
ZIGB-Ant1-2440-7000~9000-PASS



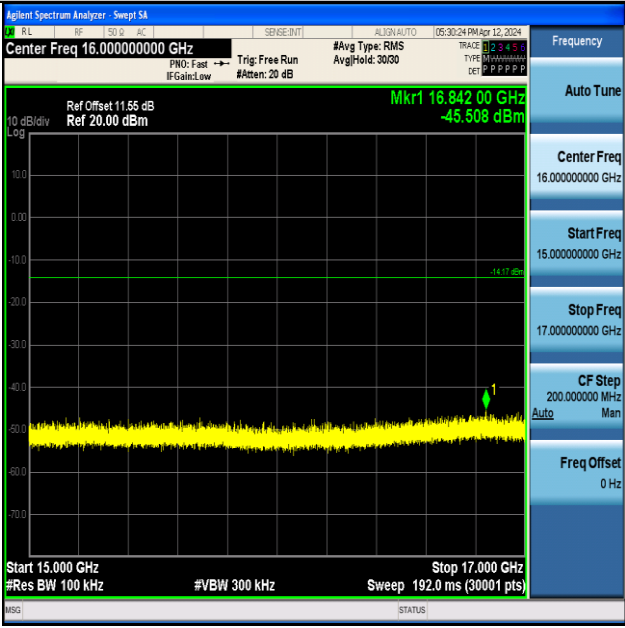
ZIGB-Ant1-2440-9000~11000-PASS



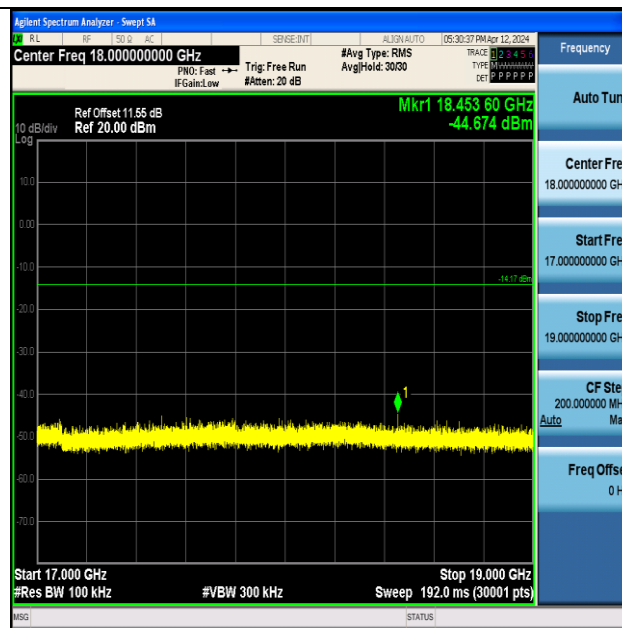
ZIGB-Ant1-2440-11000~13000-PASS



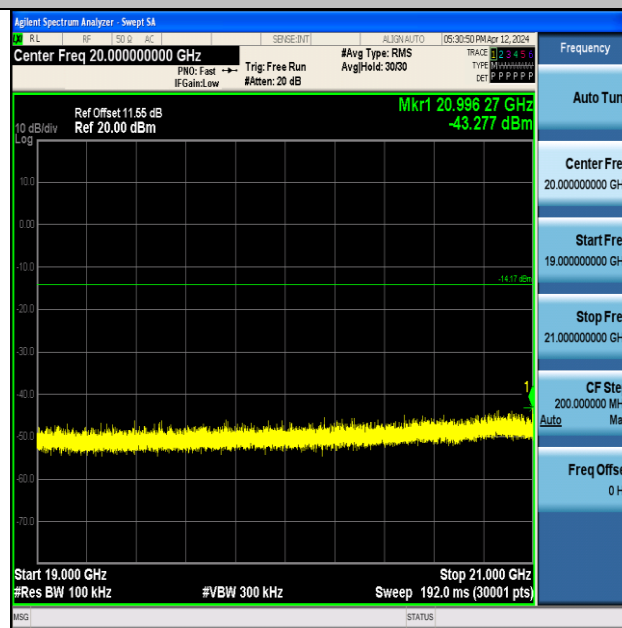
ZIGB-Ant1-2440-13000~15000-PASS



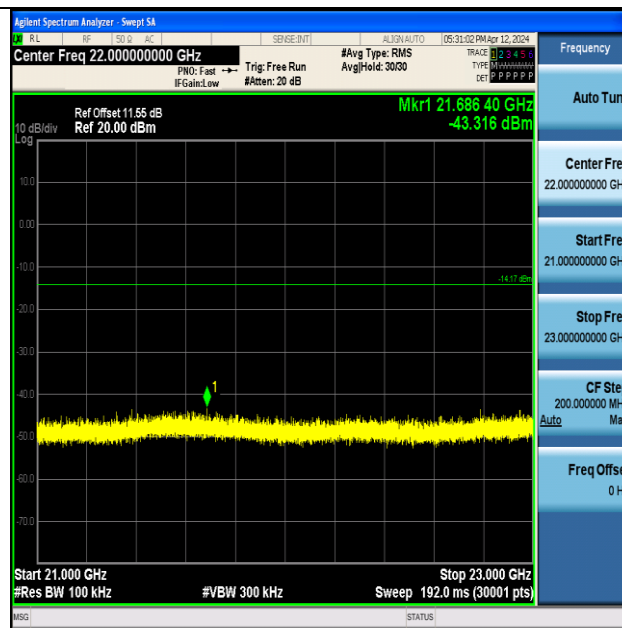
ZIGB-Ant1-2440-15000~17000-PASS



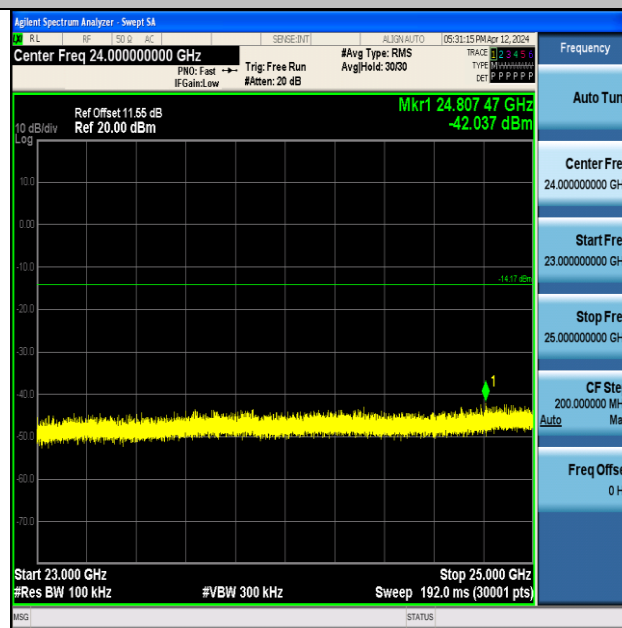
ZIGB-Ant1-2440-17000~19000-PASS



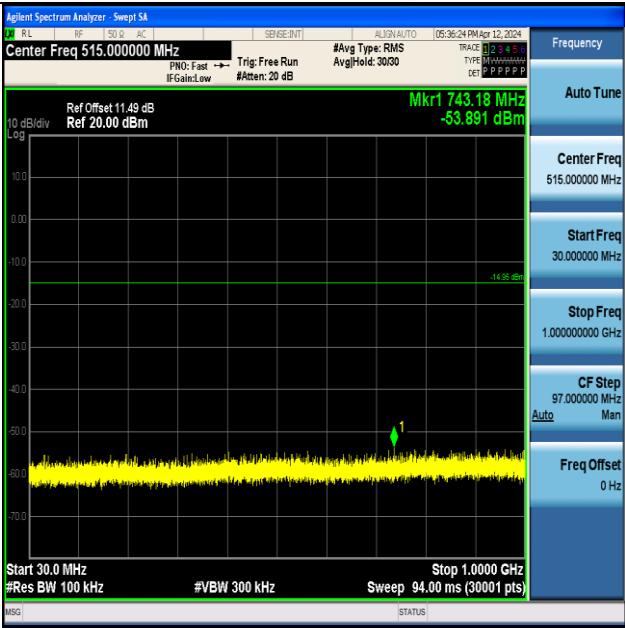
ZIGB-Ant1-2440-19000~21000-PASS



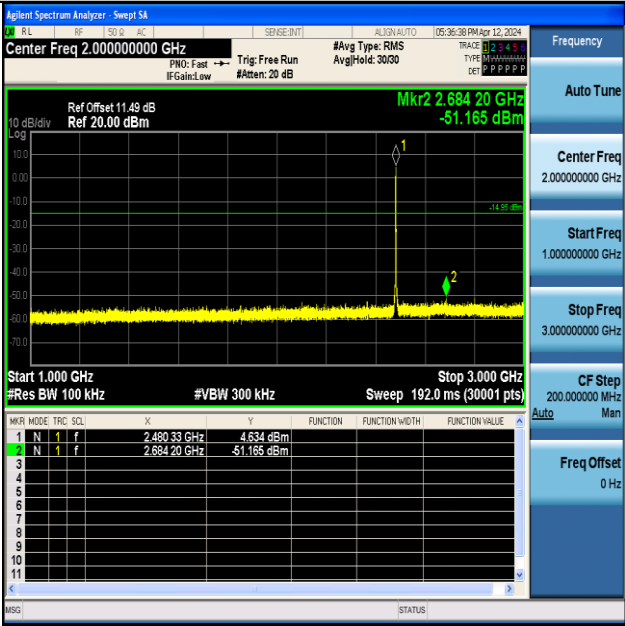
ZIGB-Ant1-2440-21000~23000-PASS



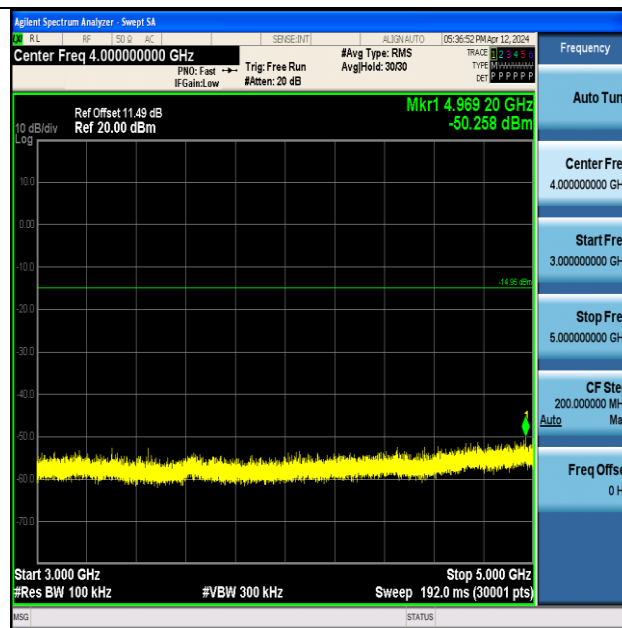
ZIGB-Ant1-2440-23000~25000-PASS



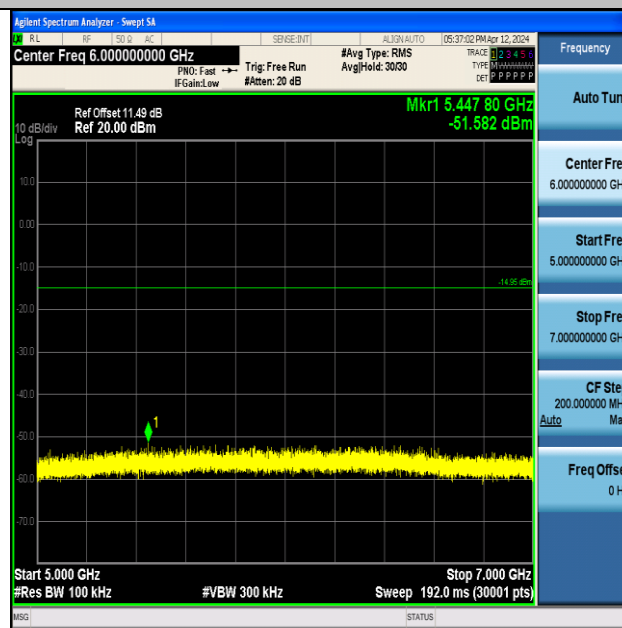
ZIGB-Ant1-2480-30~1000-PASS



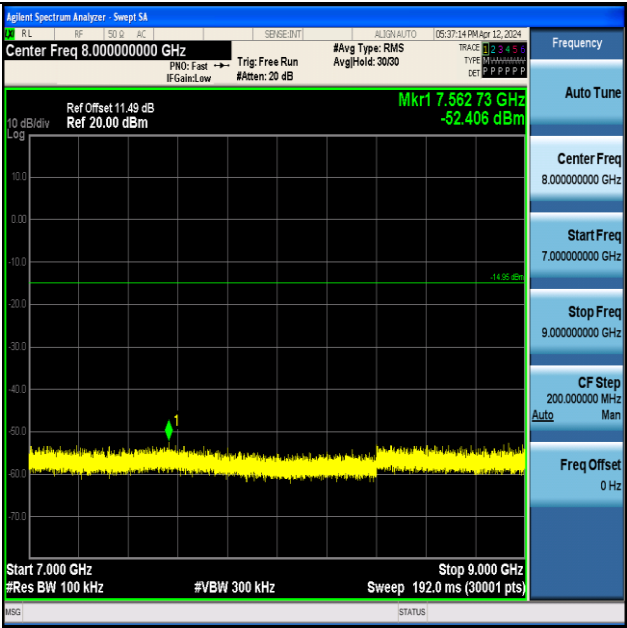
ZIGB-Ant1-2480-1000~3000-PASS



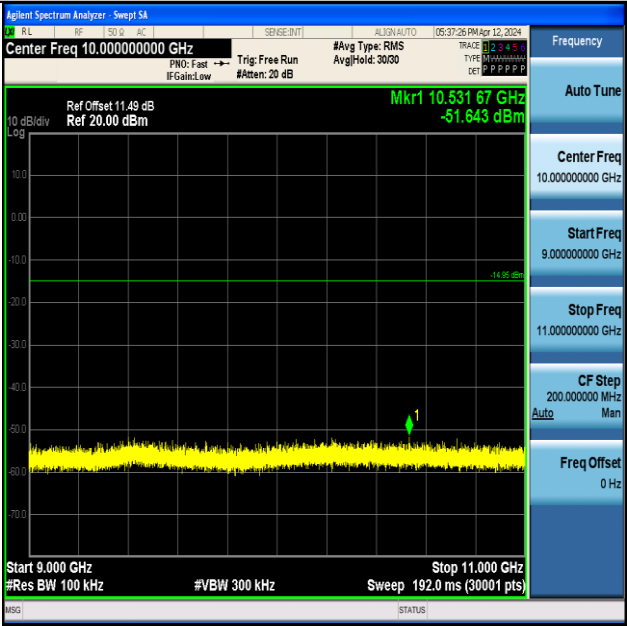
ZIGB-Ant1-2480-3000~5000-PASS



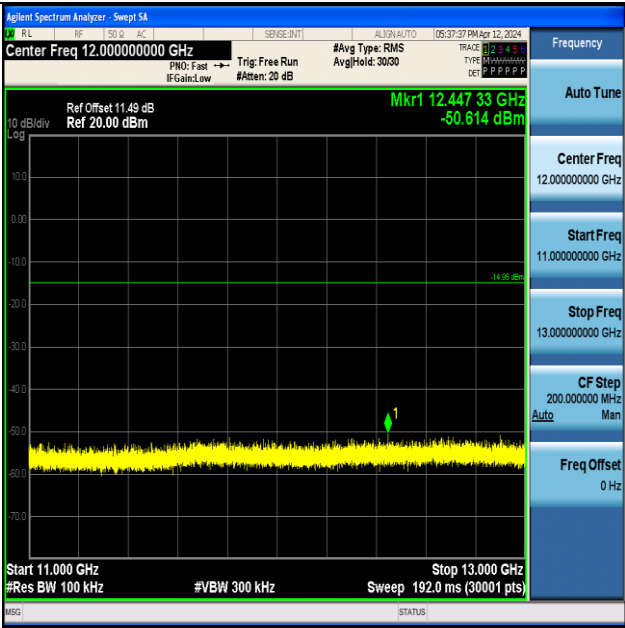
ZIGB-Ant1-2480-5000~7000-PASS



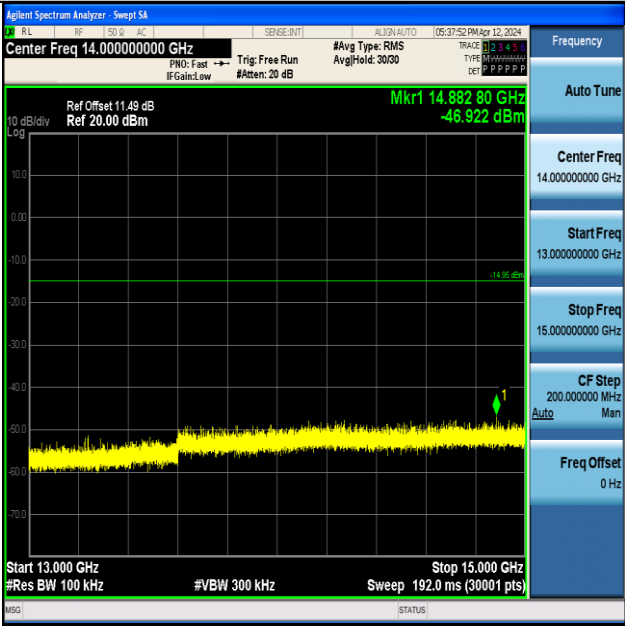
ZIGB-Ant1-2480-7000~9000-PASS



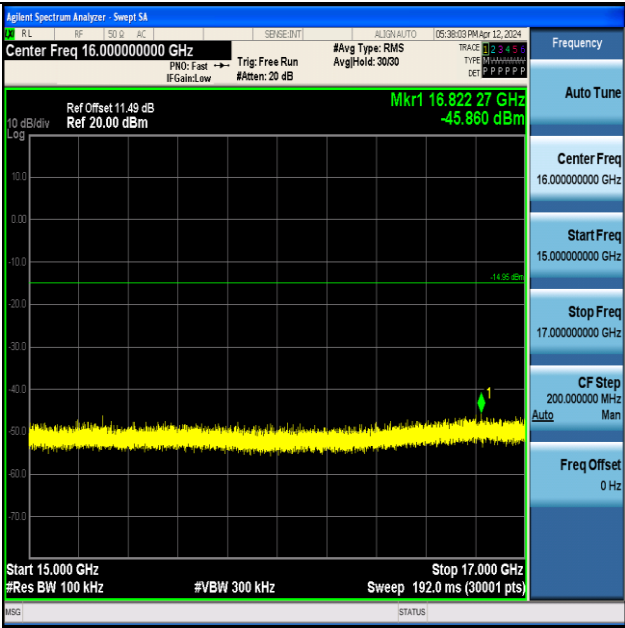
ZIGB-Ant1-2480-9000~11000-PASS



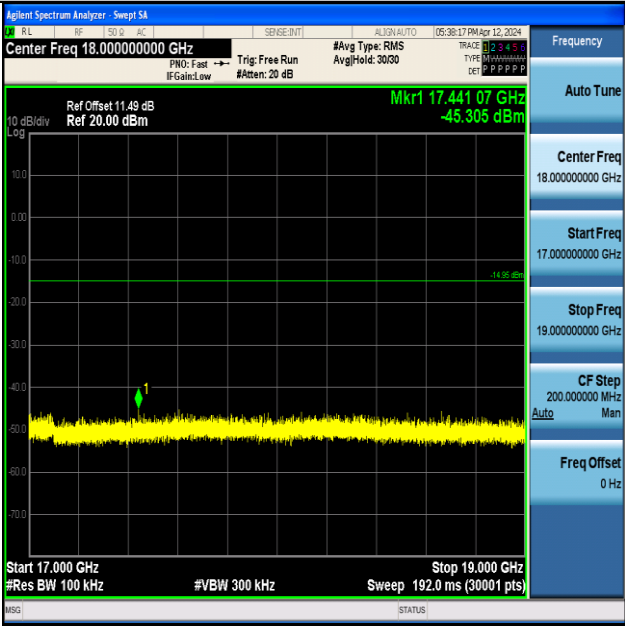
ZIGB-Ant1-2480-11000~13000-PASS



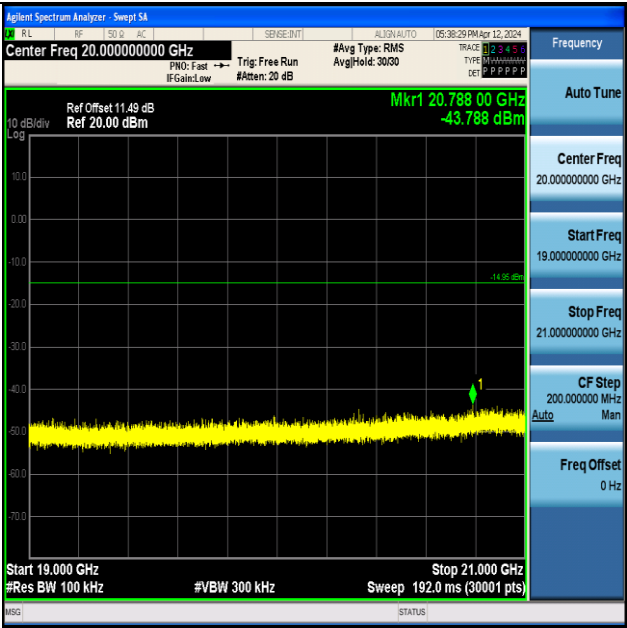
ZIGB-Ant1-2480-13000~15000-PASS



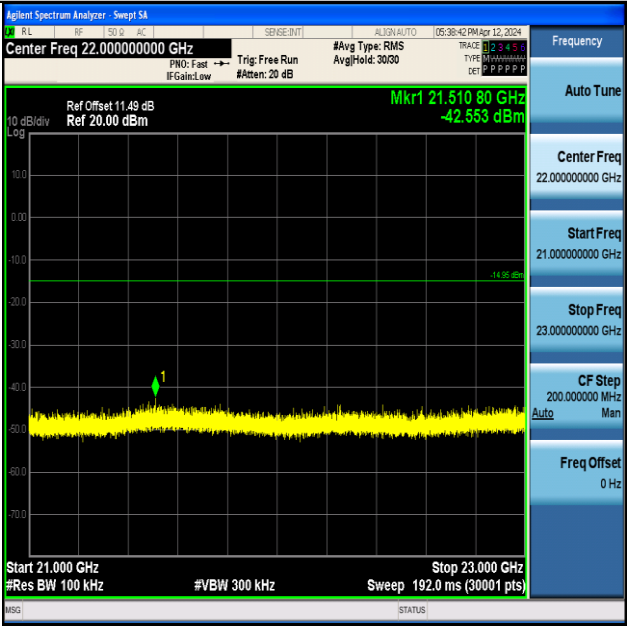
ZIGB-Ant1-2480-15000~17000-PASS



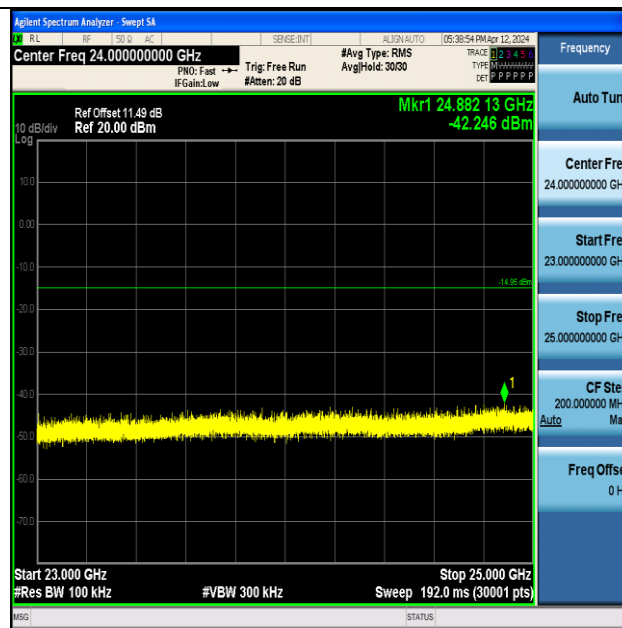
ZIGB-Ant1-2480-17000~19000-PASS



ZIGB-Ant1-2480-19000~21000-PASS



ZIGB-Ant1-2480-21000~23000-PASS



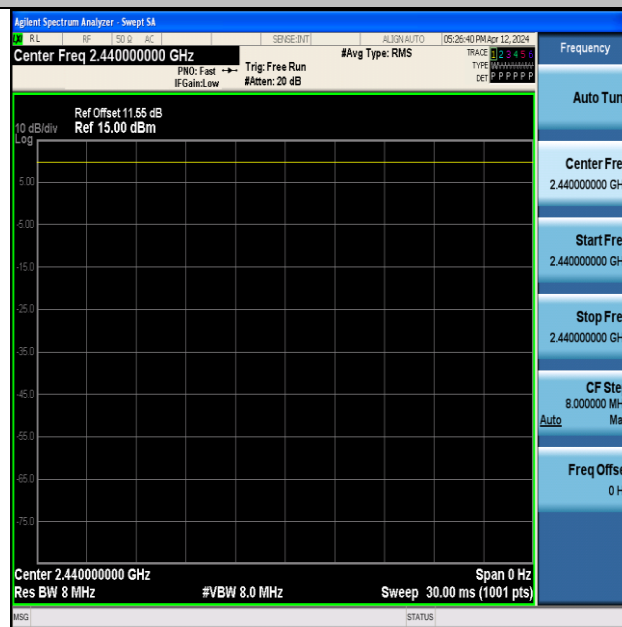
ZIGB-Ant1-2480-23000~25000-PASS

Appendix G: Duty Cycle

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



NTNV-ZIGB-Ant1-2405



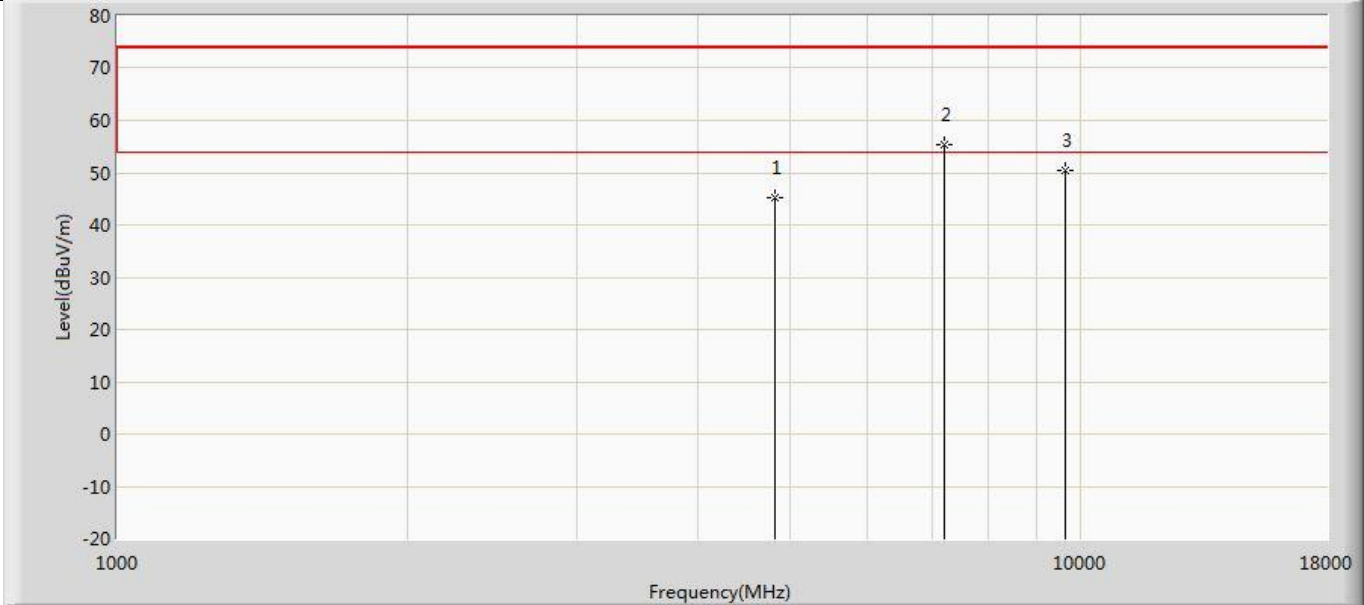
NTNV-ZIGB-Ant1-2440



NTNV-ZIGB-Ant1-2480

Appendix H: Emissions in Restricted Bands

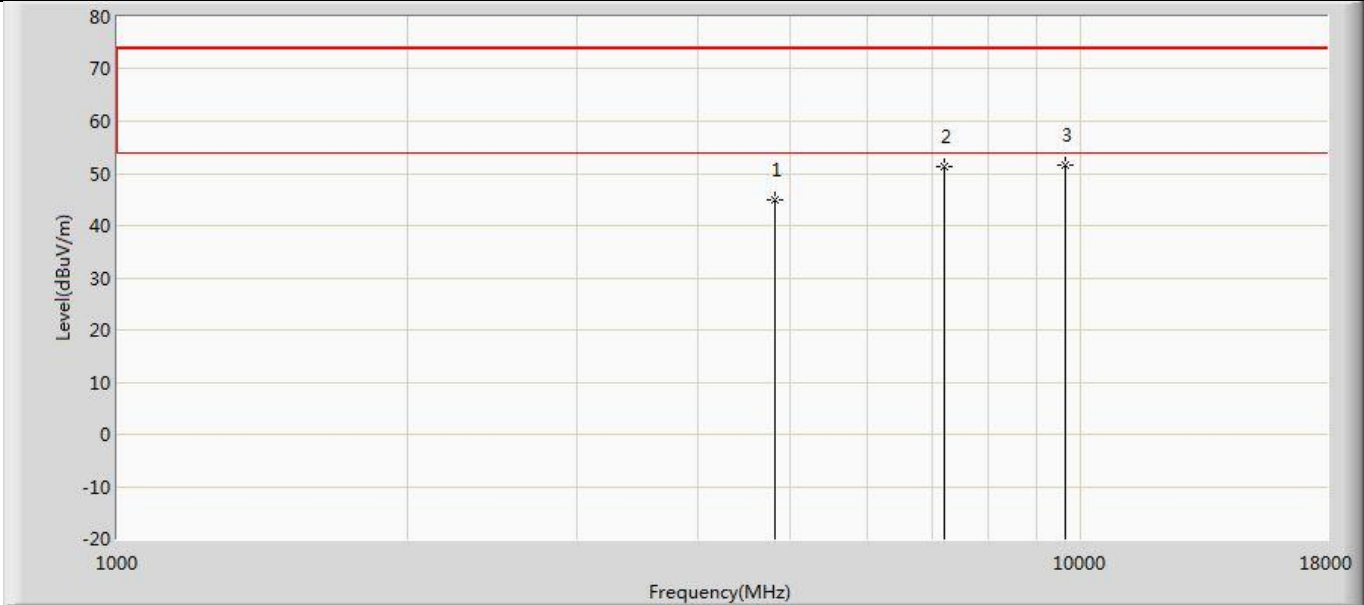
Profile: 2430177R	Page No.: 55
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/04/30 - 10:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: LED lamp	Power: AC 120V/60Hz
Note: Mode 5 : Transmit at 2405MHz by Zigbee	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4810.000	45.173	57.045	-28.827	74.000	-11.873	PK
2	*	7222.000	55.312	61.730	-18.688	74.000	-6.418	PK
3		9620.000	50.356	54.111	-23.644	74.000	-3.755	PK



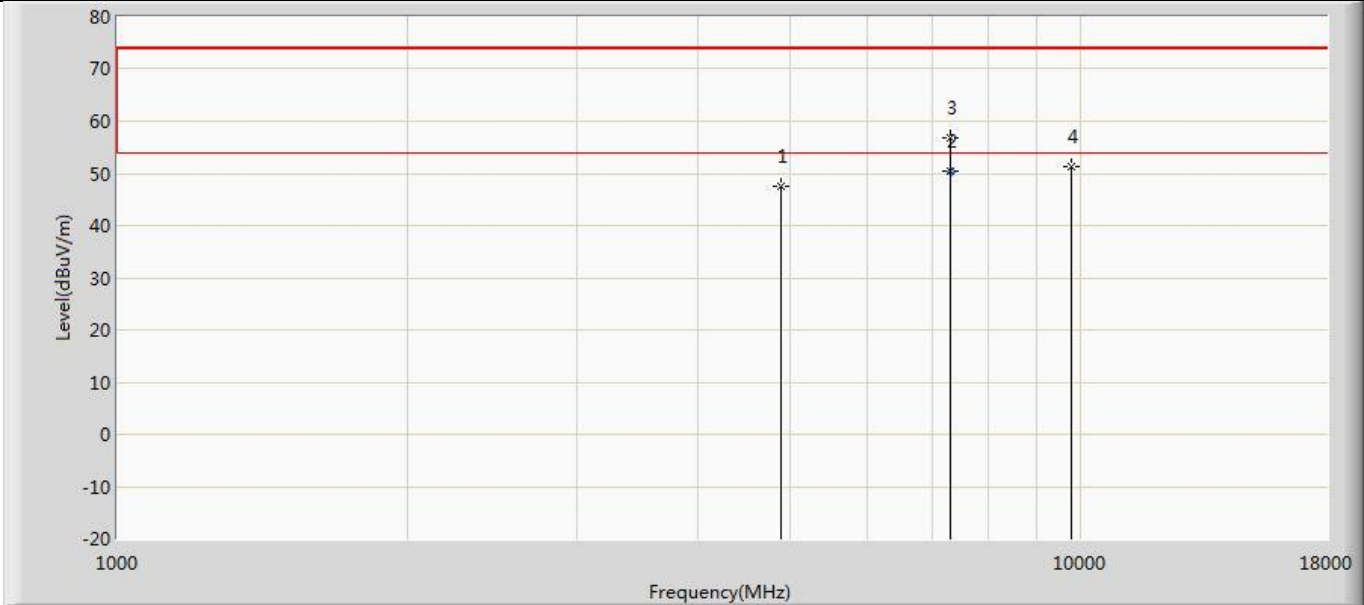
Profile: 2430177R	Page No.: 56
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/04/30 - 10:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: LED lamp	Power: AC 120V/60Hz
Note: Mode 5 : Transmit at 2405MHz by Zigbee	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4810.000	44.924	56.796	-29.076	74.000	-11.873	PK
2		7222.000	51.176	57.594	-22.824	74.000	-6.418	PK
3	*	9620.000	51.732	55.487	-22.268	74.000	-3.755	PK

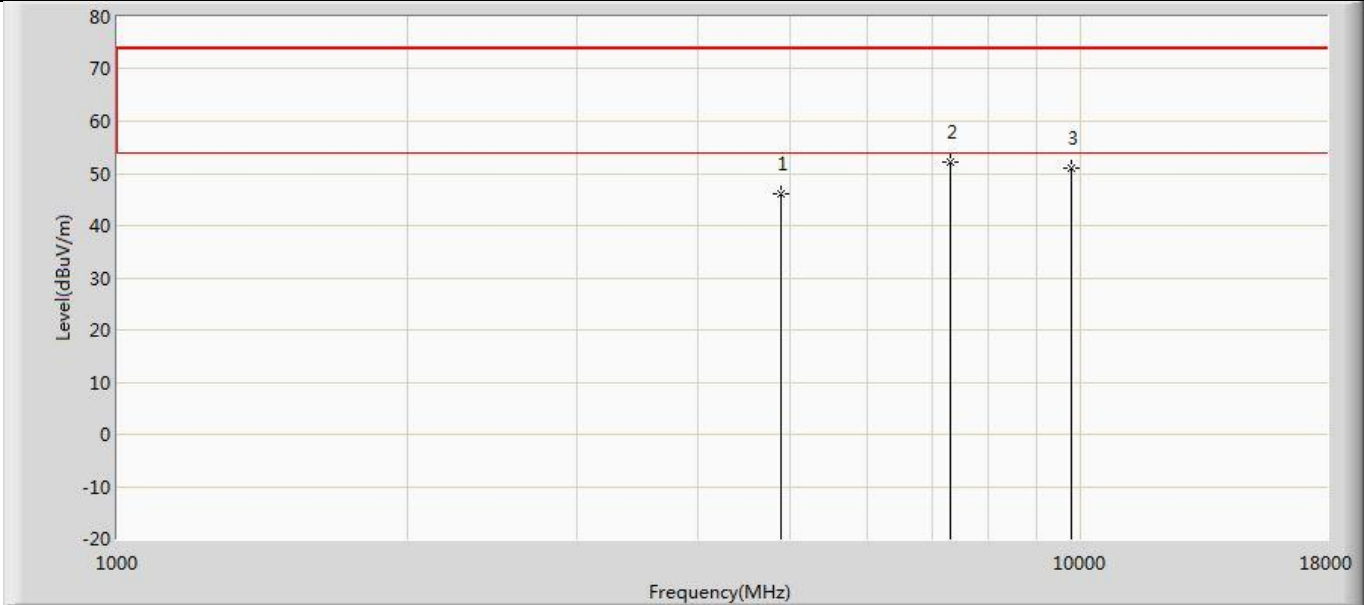


Profile: 2430177R	Page No.: 57
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/04/30 - 10:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: LED lamp	Power: AC 120V/60Hz
Note: Mode 5 : Transmit at 2440MHz by Zigbee	



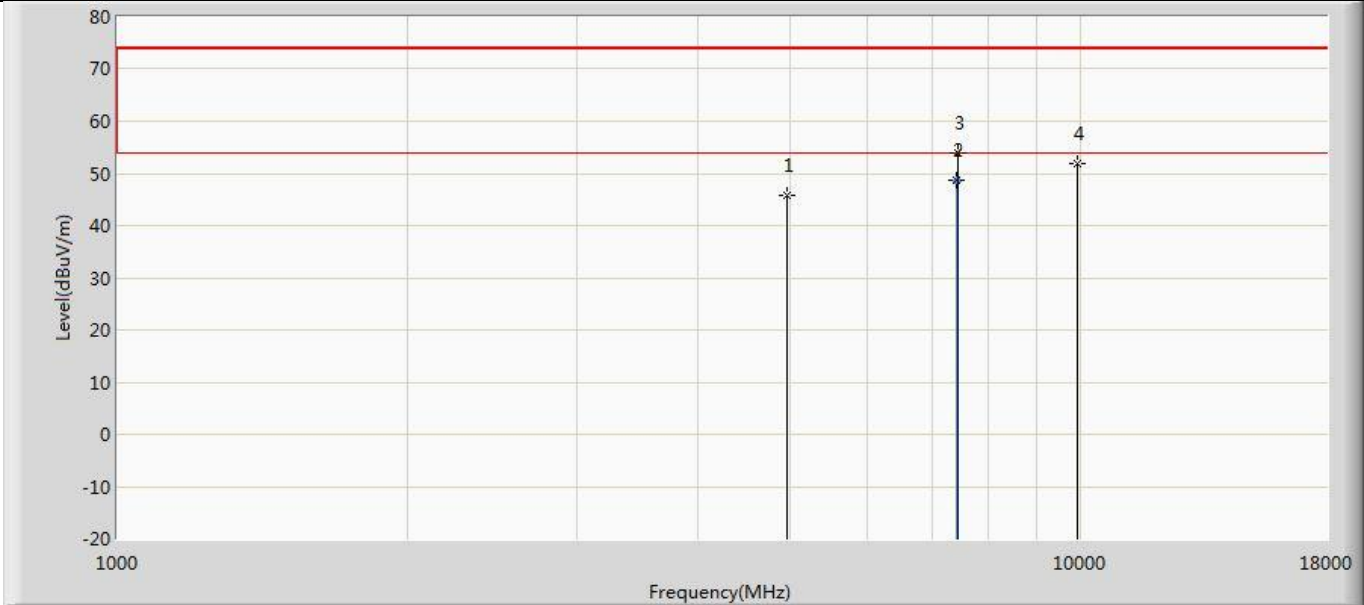
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4876.000	47.653	58.080	-26.347	74.000	-10.427	PK
2	*	7321.620	50.330	57.220	-3.670	54.000	-6.890	AV
3		7324.000	56.821	63.656	-17.179	74.000	-6.835	PK
4		9760.000	51.179	54.052	-22.821	74.000	-2.874	PK

Profile: 2430177R	Page No.: 58
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/04/30 - 10:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: LED lamp	Power: AC 120V/60Hz
Note: Mode 5 : Transmit at 2440MHz by Zigbee	



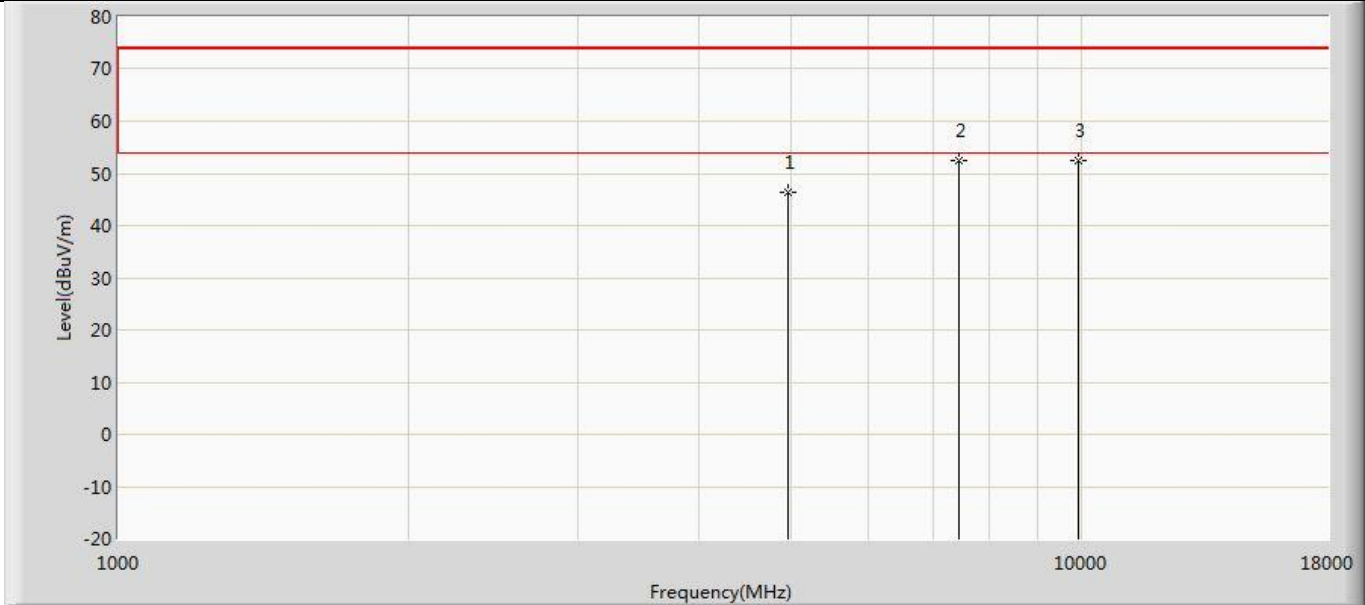
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4876.000	46.129	56.556	-27.871	74.000	-10.427	PK
2	*	7324.000	52.155	58.990	-21.845	74.000	-6.835	PK
3		9760.000	50.963	53.836	-23.037	74.000	-2.874	PK

Profile: 2430177R	Page No.: 59
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/04/30 - 10:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: LED lamp	Power: AC 120V/60Hz
Note: Mode 5 : 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	45.763	56.469	-28.237	74.000	-10.707	PK
2	*	7438.440	48.610	55.400	-5.390	54.000	-6.789	AV
3		7443.000	53.850	60.607	-20.150	74.000	-6.757	PK
4		9920.000	51.978	53.800	-22.022	74.000	-1.821	PK

Profile: 2430177R	Page No.: 60
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/04/30 - 10:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: LED lamp	Power: AC 120V/60Hz
Note: Mode 5 : Transmit at 2480MHz by Zigbee	



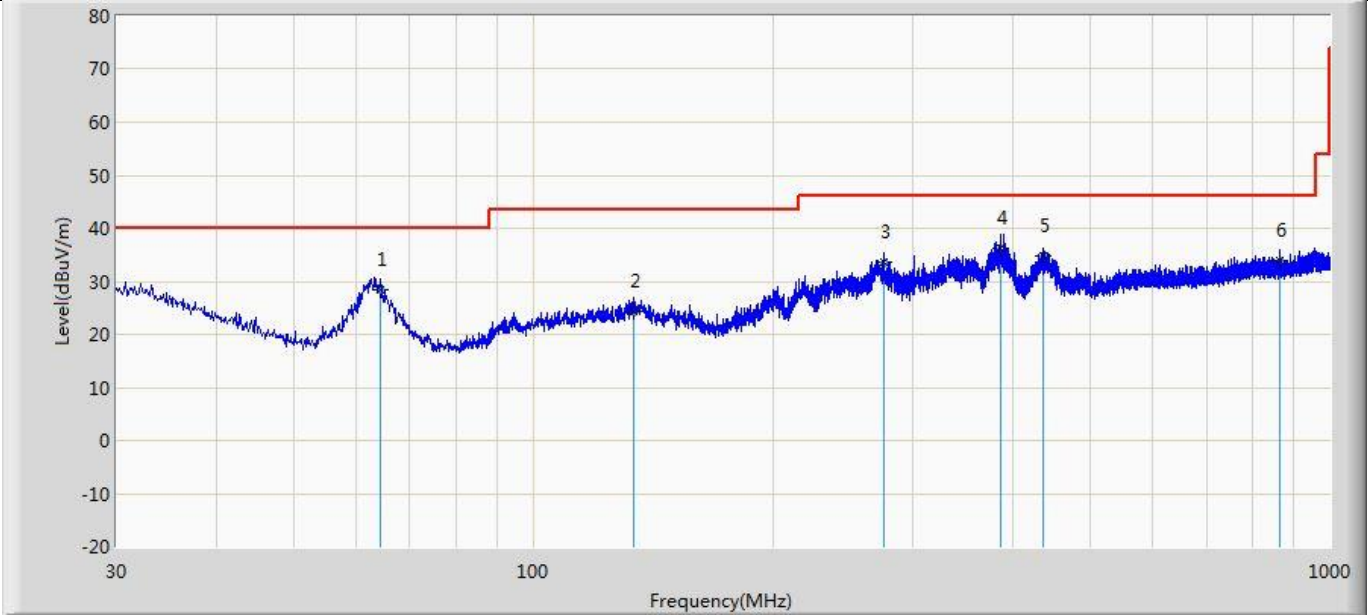
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4960.000	46.500	57.206	-27.500	74.000	-10.707	PK
2	*	7443.000	52.601	59.358	-21.399	74.000	-6.757	PK
3		9920.000	52.431	54.253	-21.569	74.000	-1.821	PK

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.

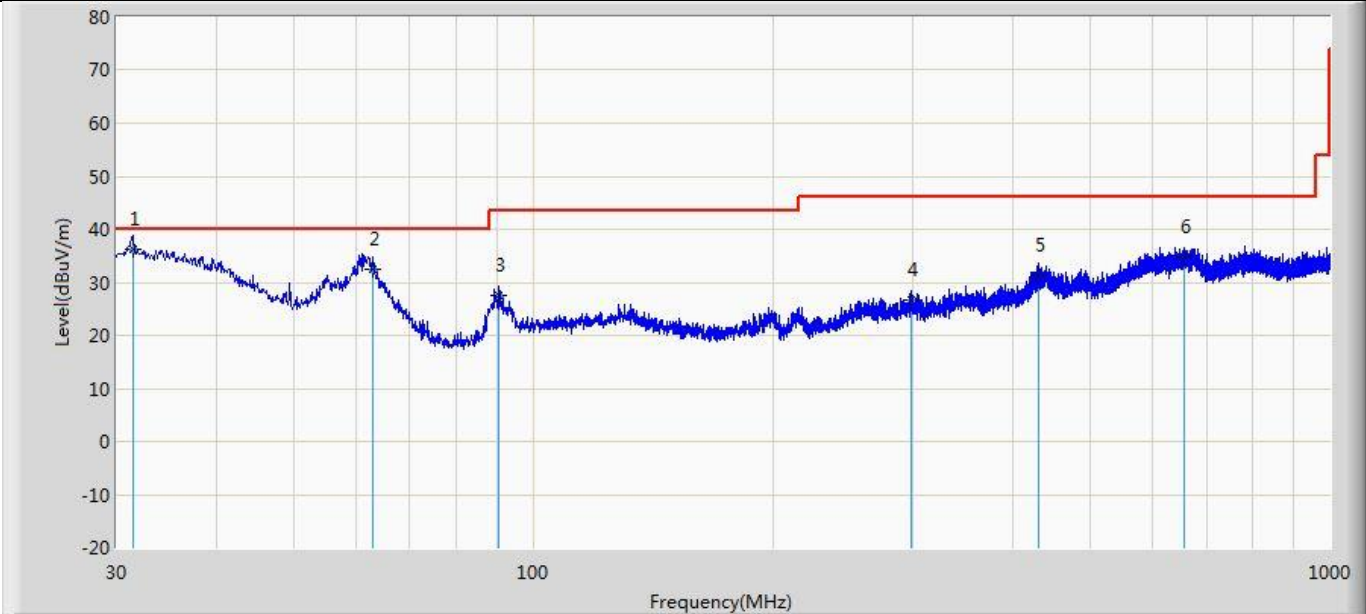
The worst case of Radiated Emission below 1GHz :

Profile: 2430177R	Page No.: 127
Engineer: Pengchengyang	
Site: AC2	Time: 2024/04/11 - 07:52
Limit: FCC_Part 15.209_RE (3m)_	Margin: 0
Probe: CBL6112D_27613(30-1000MHz)	Polarity: Horizontal
EUT: LED lamp	Power: AC 120V/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		64.435	28.375	15.411	-11.625	40.000	12.964	QP
2		133.548	24.359	5.580	-19.141	43.500	18.779	QP
3		275.168	33.549	13.216	-12.451	46.000	20.333	QP
4	*	385.990	36.319	13.204	-9.681	46.000	23.115	QP
5		437.521	34.661	10.275	-11.339	46.000	24.386	QP
6		865.291	33.980	4.597	-12.020	46.000	29.382	QP

Profile: 2430177R	Page No.: 128
Engineer: Pengchengyang	
Site: AC2	Time: 2024/04/11 - 07:55
Limit: FCC_Part 15.209_RE (3m)_	Margin: 0
Probe: CBL6112D_27613(30-1000MHz)	Polarity: Vertical
EUT: LED lamp	Power: AC 120V/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	*	31.455	36.268	12.069	-3.732	40.000	24.199	QP
2		62.980	32.547	19.561	-7.453	40.000	12.986	QP
3		90.625	27.637	11.605	-15.863	43.500	16.032	QP
4		298.326	26.753	5.938	-19.247	46.000	20.815	QP
5		431.944	31.265	6.989	-14.735	46.000	24.276	QP
6		657.590	34.731	7.240	-11.269	46.000	27.491	QP

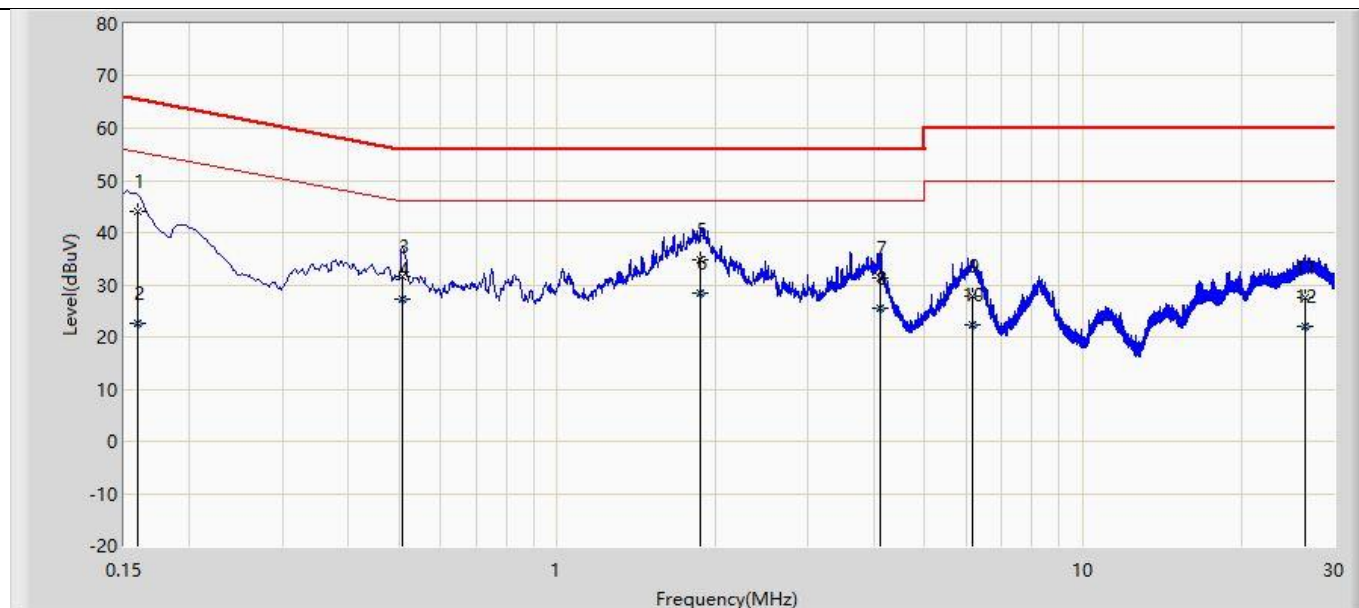
Note:

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

2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp)

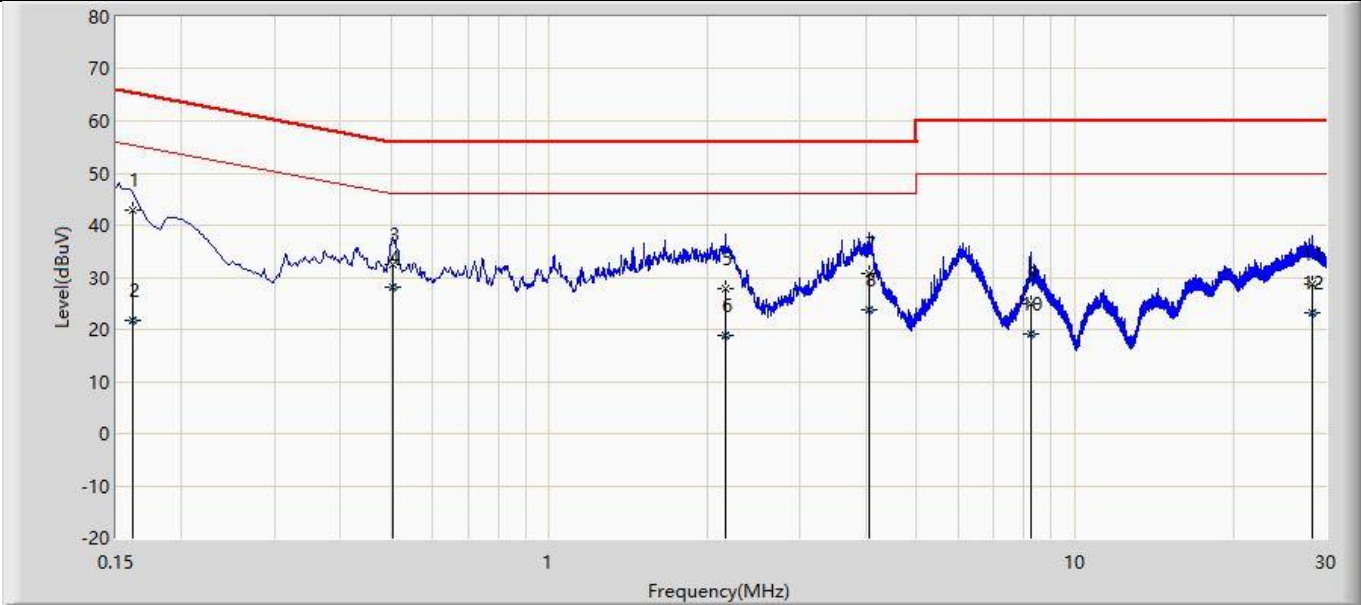
Appendix I: AC Power Line Conducted Emission

Profile: 2430177R	Page No.: 51
Engineer: Pengchengyang	
Site: TR1	Time: 2024/04/10 - 08:36
Limit: FCC_Part 15.207_CE_AC Power	Margin: 0
Probe: ENV216_101189(0.009-30MHz)	Polarity: Line
EUT: LED lamp	Power: AC 120V/60Hz
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		0.159	44.014	34.390	-21.502	65.516	9.624	QP
2		0.159	22.629	13.005	-32.887	55.516	9.624	AV
3		0.508	31.559	21.922	-24.441	56.000	9.637	QP
4		0.508	27.184	17.547	-18.816	46.000	9.637	AV
5		1.876	34.677	24.985	-21.323	56.000	9.692	QP
6	*	1.876	28.307	18.615	-17.693	46.000	9.692	AV
7		4.123	31.423	21.680	-24.577	56.000	9.743	QP
8		4.123	25.473	15.730	-20.527	46.000	9.743	AV
9		6.173	27.944	18.150	-32.056	60.000	9.794	QP
10		6.173	22.238	12.445	-27.762	50.000	9.794	AV
11		26.531	27.468	17.390	-32.532	60.000	10.078	QP
12		26.531	21.926	11.848	-28.074	50.000	10.078	AV

Profile: 2430177R	Page No.: 52
Engineer: Pengchengyang	
Site: TR1	Time: 2024/04/10 - 08:37
Limit: FCC_Part 15.207_CE_AC Power	Margin: 0
Probe: ENV216_101189(0.009-30MHz)	Polarity: Neutral
EUT: LED lamp	Power: AC 120V/60Hz
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		0.161	42.951	33.320	-22.449	65.399	9.630	QP
2		0.161	21.794	12.163	-33.605	55.399	9.630	AV
3		0.505	32.420	22.773	-23.580	56.000	9.647	QP
4	*	0.505	27.998	18.352	-18.002	46.000	9.647	AV
5		2.166	27.697	17.996	-28.303	56.000	9.701	QP
6		2.166	18.918	9.217	-27.082	46.000	9.701	AV
7		4.069	30.742	20.991	-25.258	56.000	9.751	QP
8		4.069	23.820	14.069	-22.180	46.000	9.751	AV
9		8.223	25.037	15.192	-34.963	60.000	9.845	QP
10		8.223	19.088	9.242	-30.912	50.000	9.845	AV
11		28.320	28.753	18.634	-31.247	60.000	10.119	QP
12		28.320	23.077	12.958	-26.923	50.000	10.119	AV

Note:

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

2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp)

The End