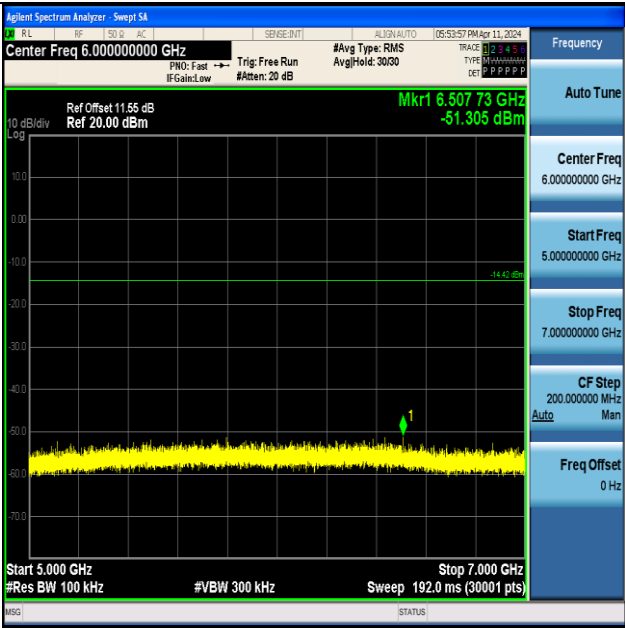
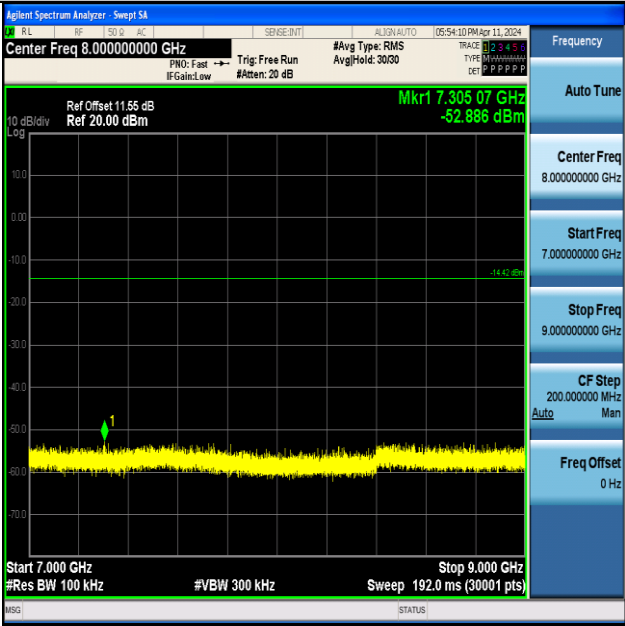
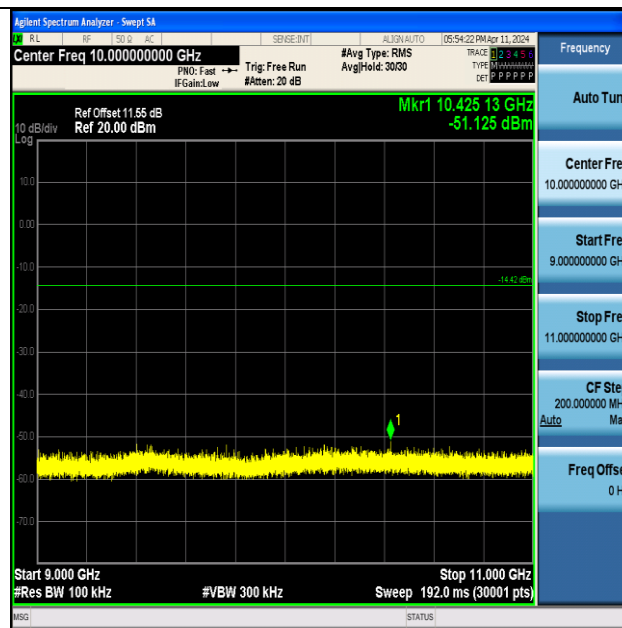




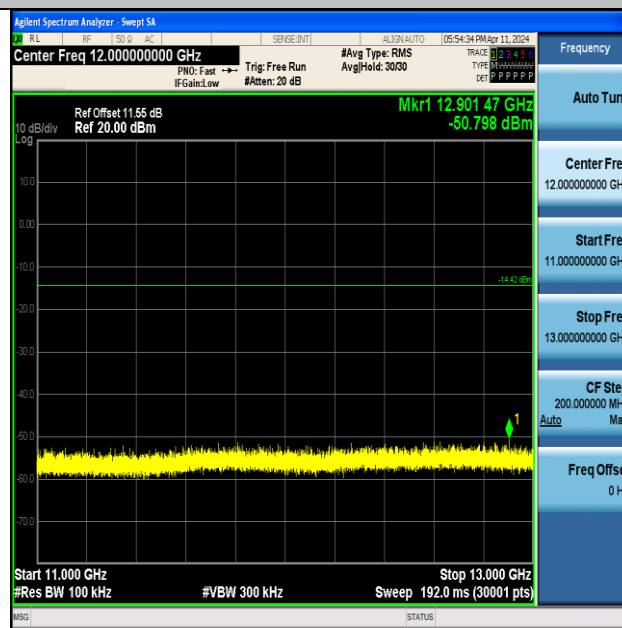
ZIGB-Ant1-2440-5000~7000-PASS



ZIGB-Ant1-2440-7000~9000-PASS



ZIGB-Ant1-2440-9000~11000-PASS



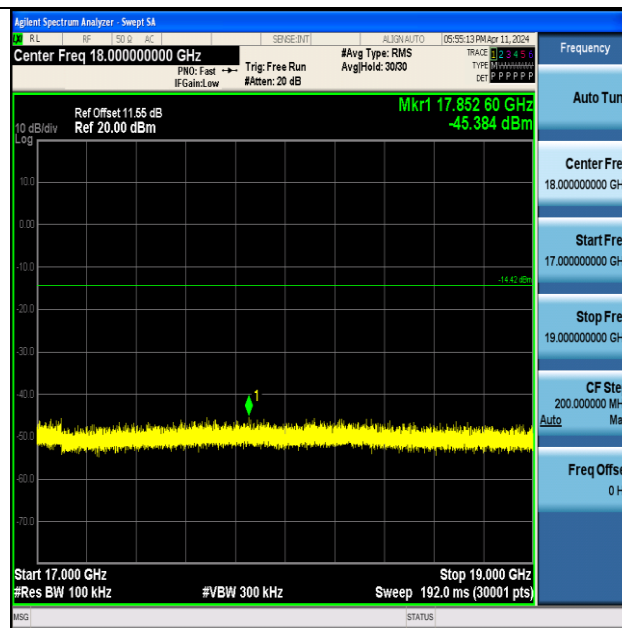
ZIGB-Ant1-2440-11000~13000-PASS



ZIGB-Ant1-2440-13000~15000-PASS



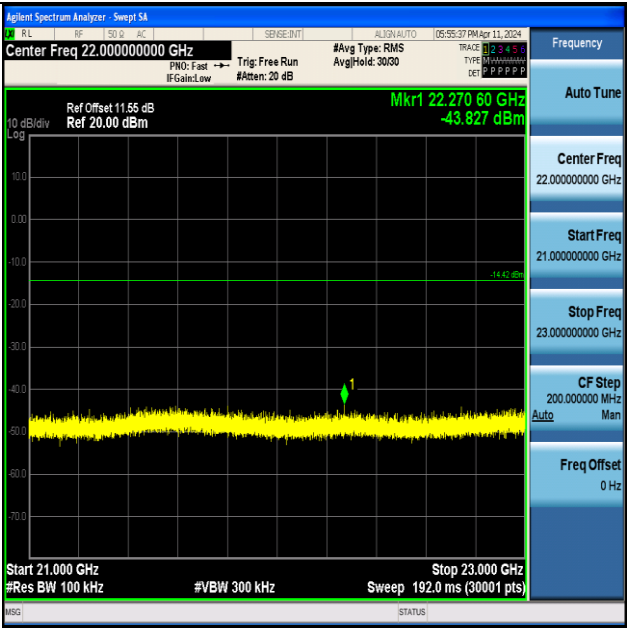
ZIGB-Ant1-2440-15000~17000-PASS



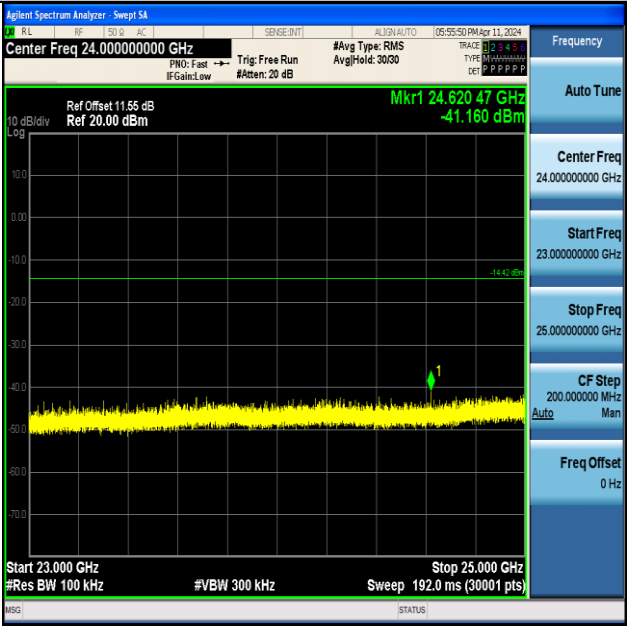
ZIGB-Ant1-2440-17000~19000-PASS



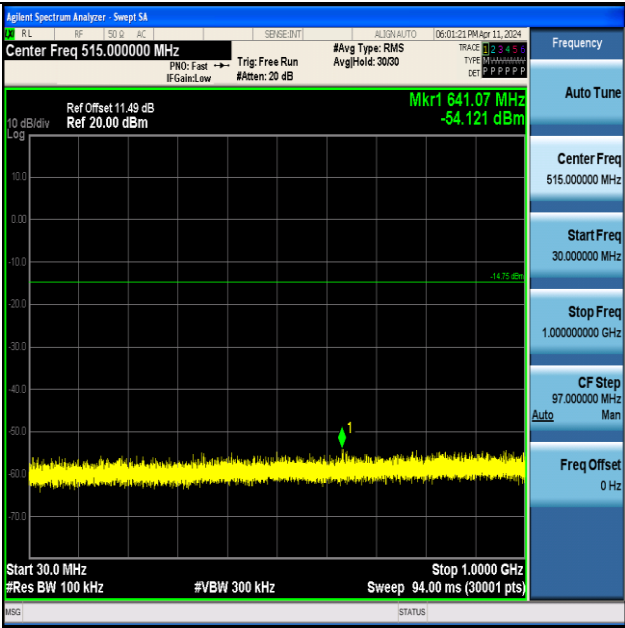
ZIGB-Ant1-2440-19000~21000-PASS



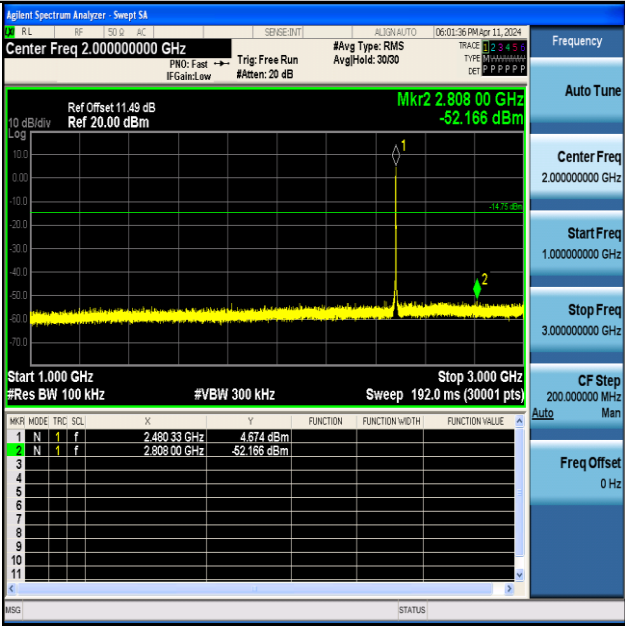
ZIGB-Ant1-2440-21000~23000-PASS



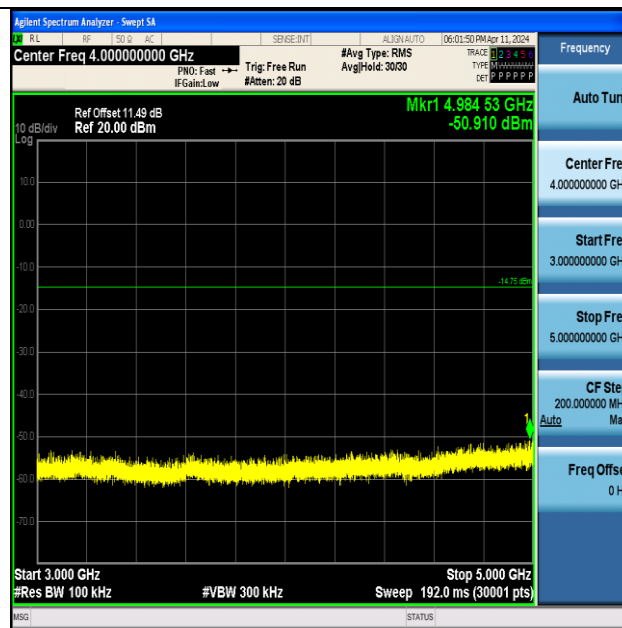
ZIGB-Ant1-2440-23000~25000-PASS



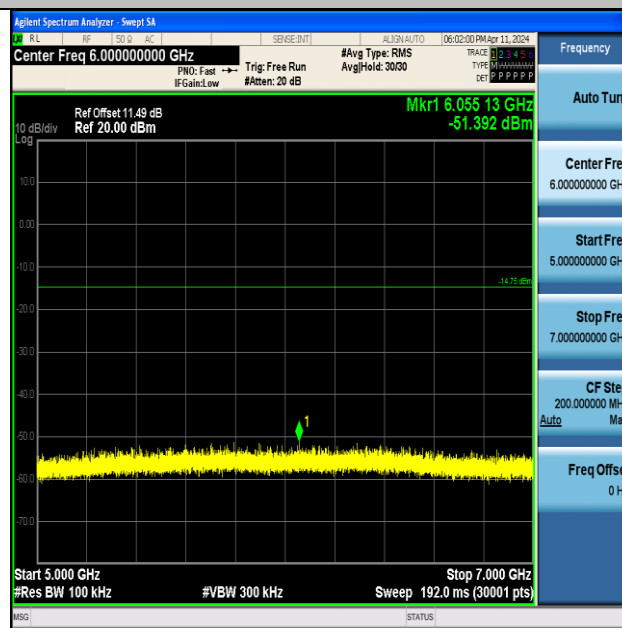
ZIGB-Ant1-2480-30~1000-PASS



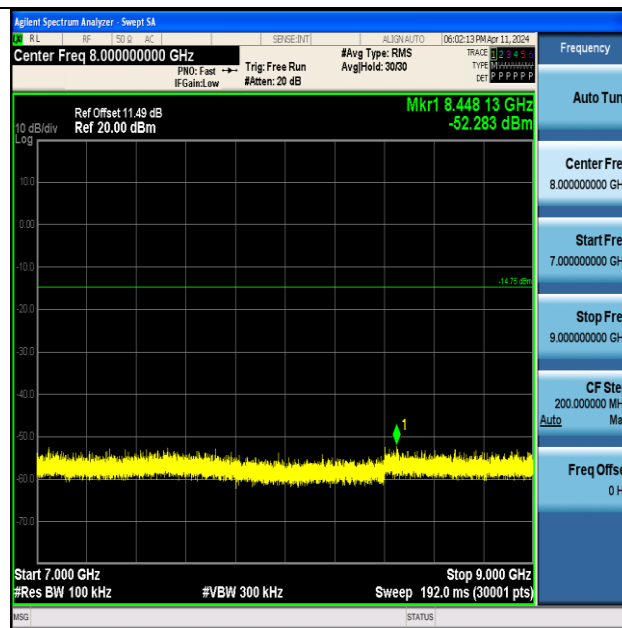
ZIGB-Ant1-2480-1000~3000-PASS



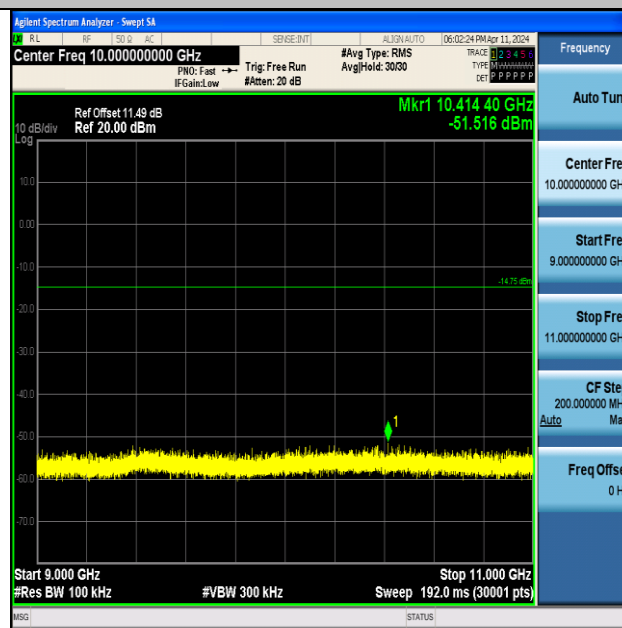
ZIGB-Ant1-2480-3000~5000-PASS



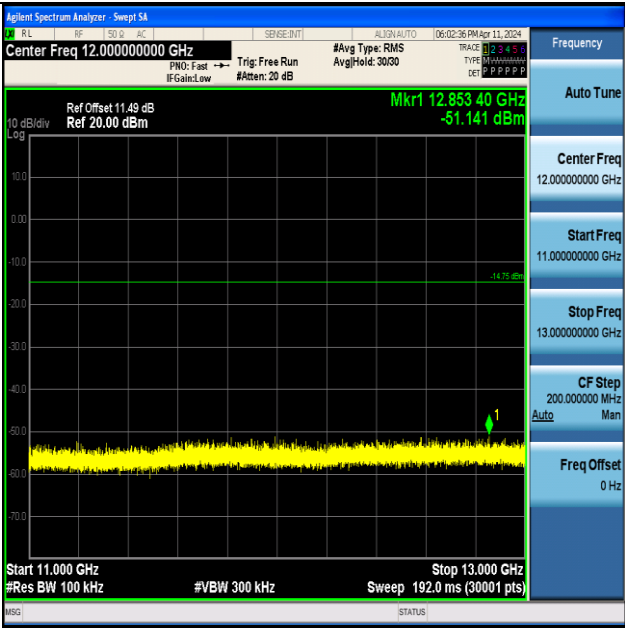
ZIGB-Ant1-2480-5000~7000-PASS



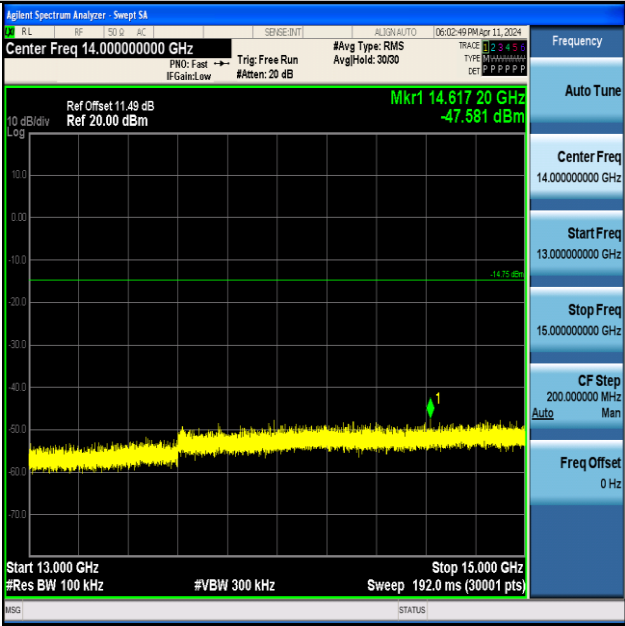
ZIGB-Ant1-2480-7000~9000-PASS



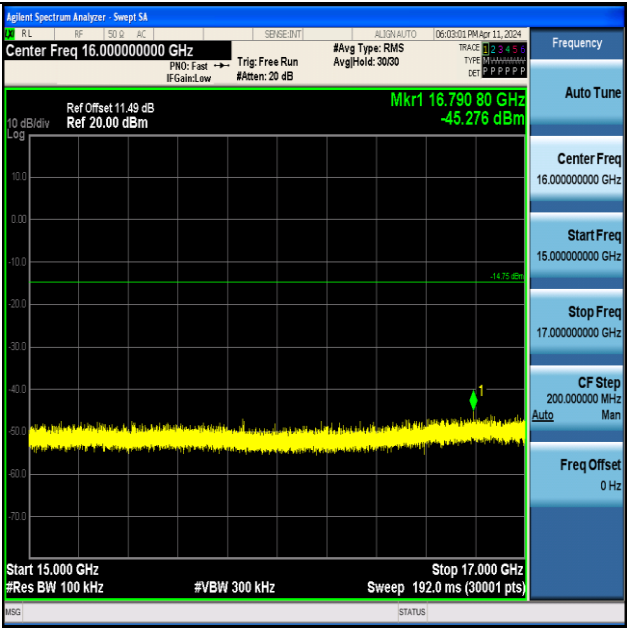
ZIGB-Ant1-2480-9000~11000-PASS



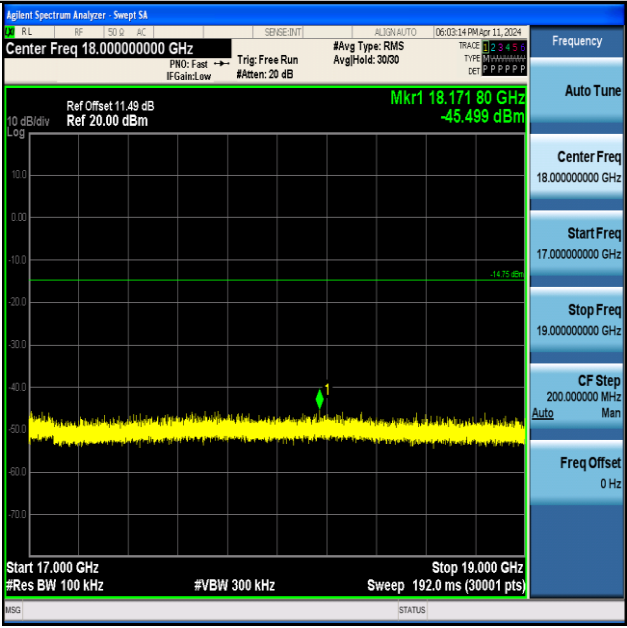
ZIGB-Ant1-2480-11000~13000-PASS



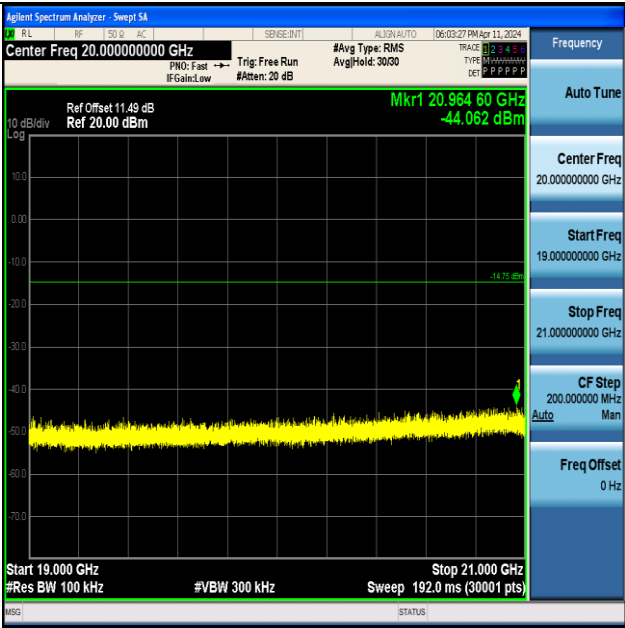
ZIGB-Ant1-2480-13000~15000-PASS



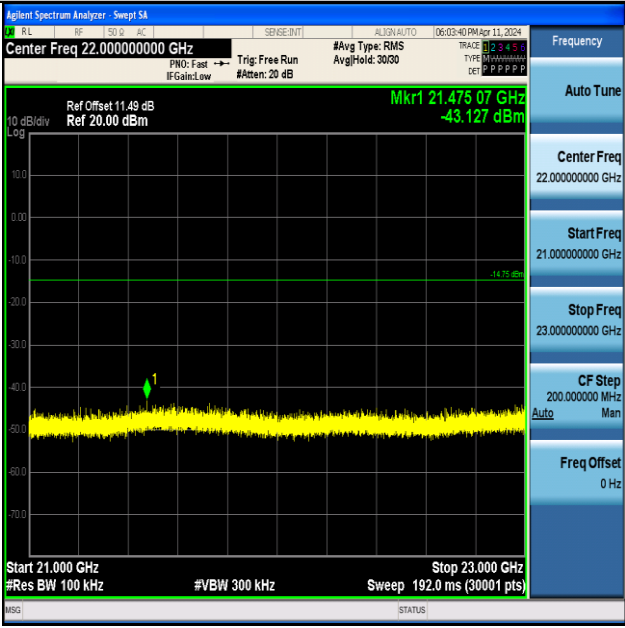
ZIGB-Ant1-2480-15000~17000-PASS



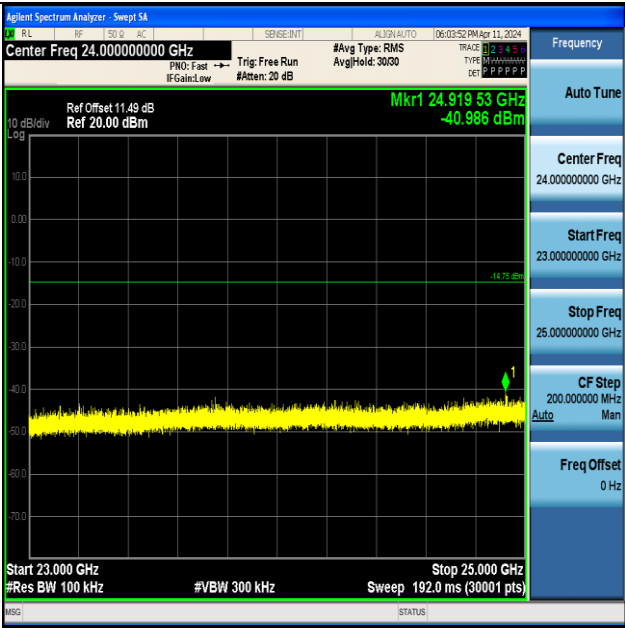
ZIGB-Ant1-2480-17000~19000-PASS



ZIGB-Ant1-2480-19000~21000-PASS



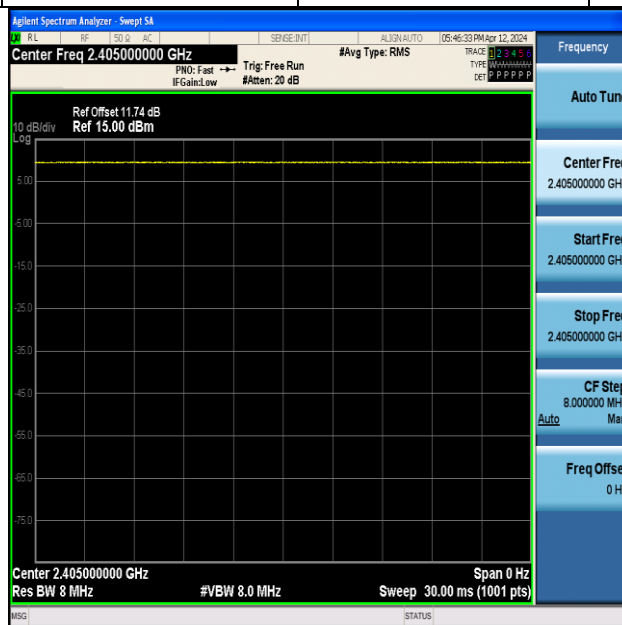
ZIGB-Ant1-2480-21000~23000-PASS



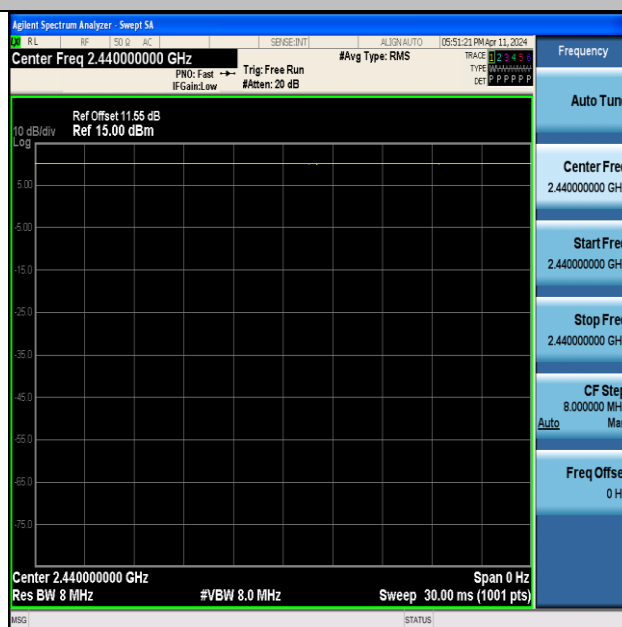
ZIGB-Ant1-2480-23000~25000-PASS

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



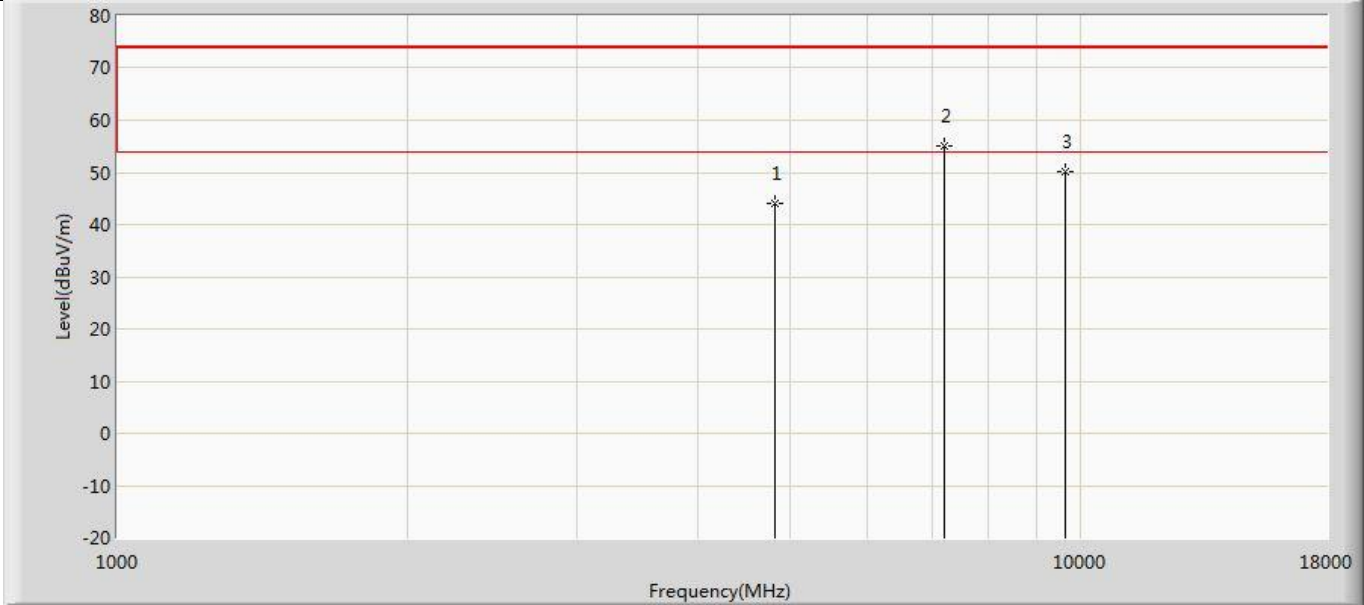
NTNV-ZIGB-Ant1-2440



NTNV-ZIGB-Ant1-2480

Appendix H: Emissions in Restricted Bands

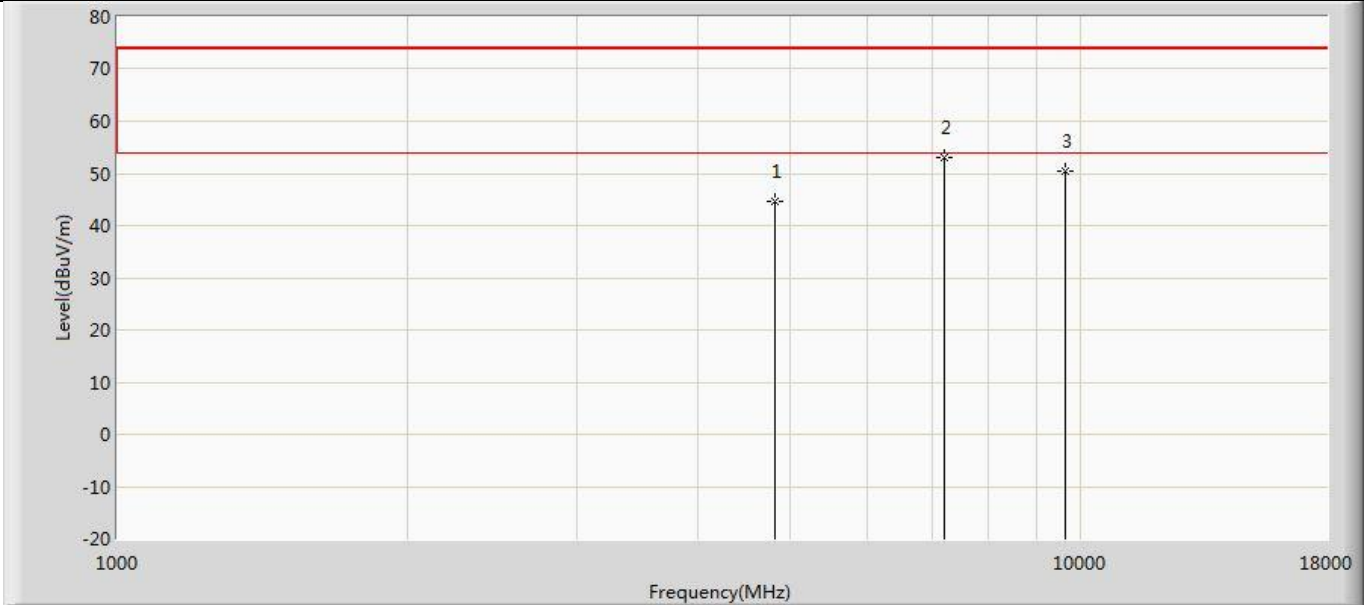
Profile: 2430175R	Page No.: 55
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/04/30 - 10:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: LED lamp	Power: AC 120V/60Hz
Note: Mode 5 : Transmit at 2405MHz by Zigbee	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4810.000	43.923	55.795	-30.077	74.000	-11.873	PK
2	*	7205.000	55.033	61.183	-18.967	74.000	-6.150	PK
3		9620.000	50.284	54.039	-23.716	74.000	-3.755	PK

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

Profile: 2430175R	Page No.: 56
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/04/30 - 10:36
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	

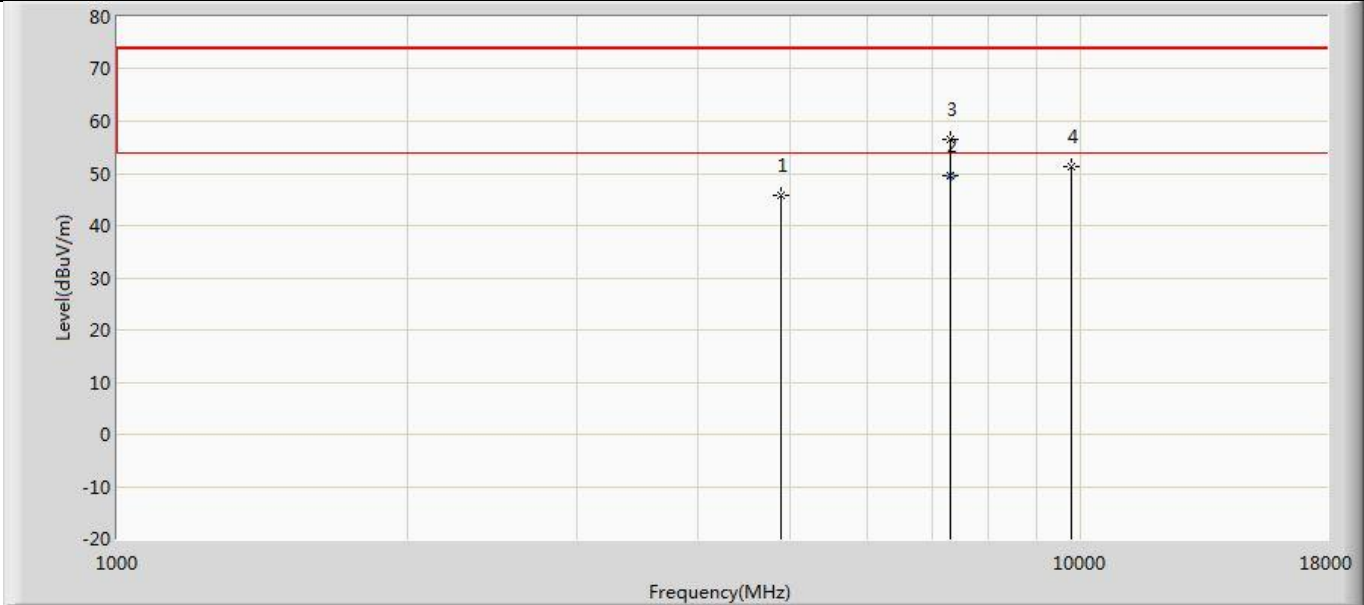


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4810.000	44.620	56.492	-29.380	74.000	-11.873	PK
2	*	7205.000	52.900	59.050	-21.100	74.000	-6.150	PK
3		9620.000	50.360	54.115	-23.640	74.000	-3.755	PK

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

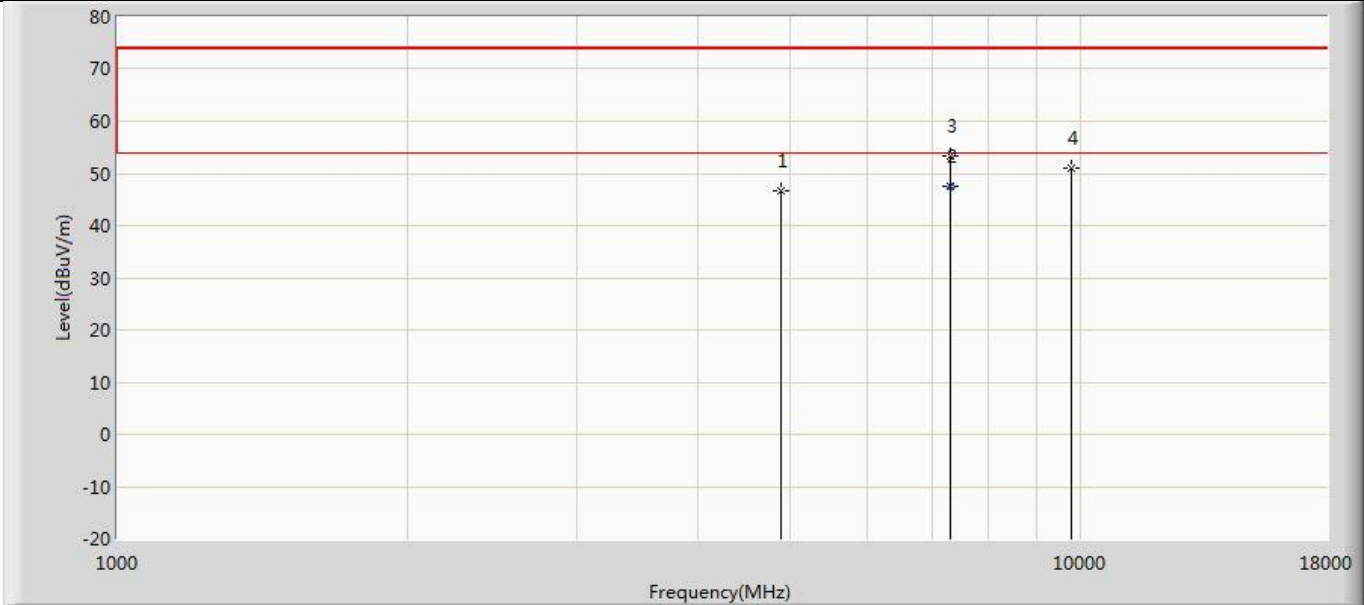


Profile: 2430175R	Page No.: 57
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/04/30 - 10:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: LED lamp	Power: AC 120V/60Hz
Note: Mode 5 : Transmit at 2440MHz by Zigbee	



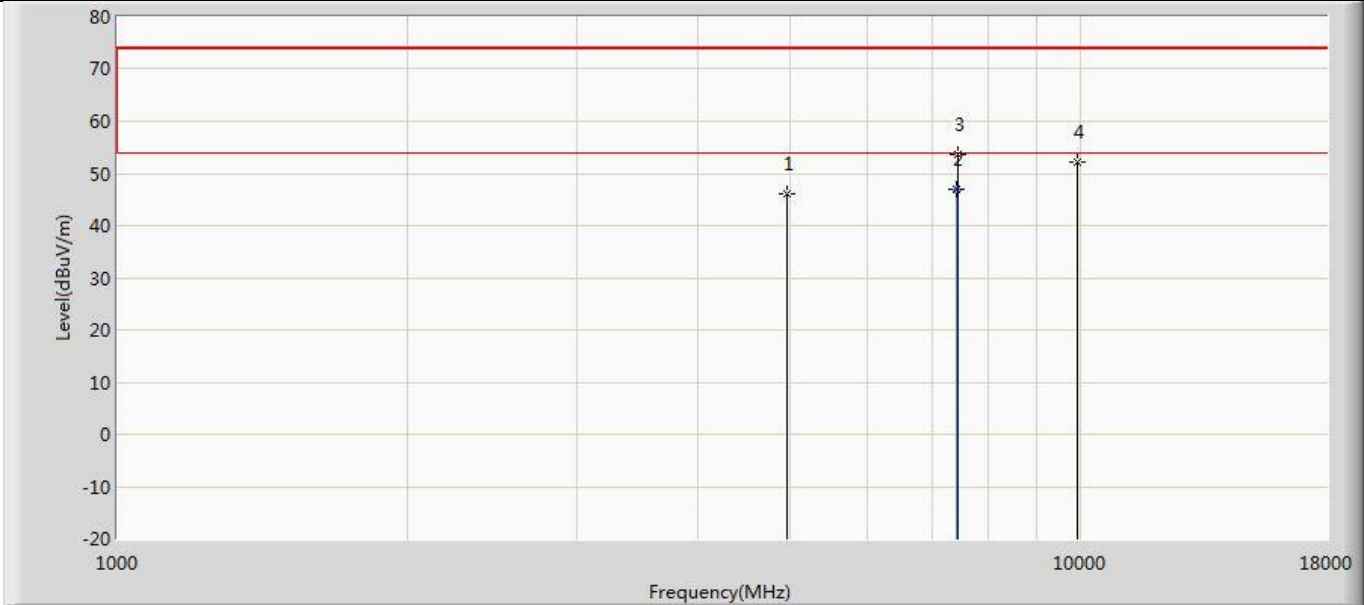
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4880.000	45.732	56.336	-28.268	74.000	-10.603	PK
2	*	7321.560	49.709	56.600	-4.291	54.000	-6.892	AV
3		7324.000	56.482	63.317	-17.518	74.000	-6.835	PK
4		9760.000	51.257	54.130	-22.743	74.000	-2.874	PK

Profile: 2430175R	Page No.: 58
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/04/30 - 10:36
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	



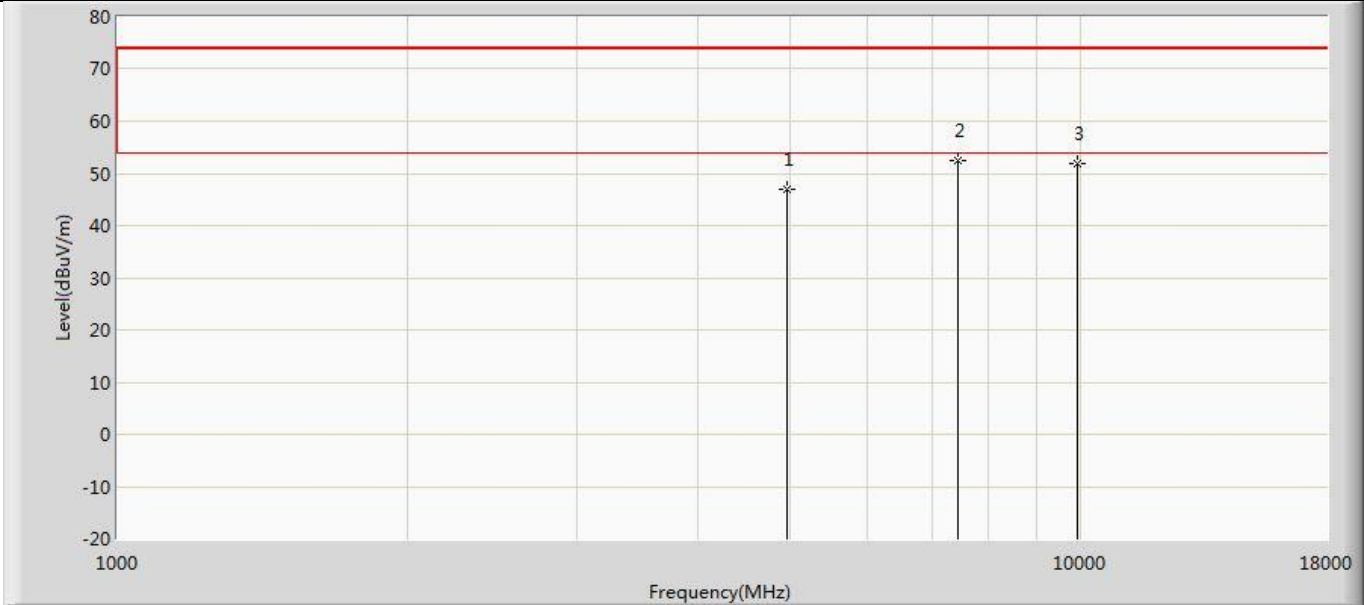
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4880.000	46.638	57.242	-27.362	74.000	-10.603	PK
2	*	7321.520	47.628	54.520	-6.372	54.000	-6.893	AV
3		7324.000	53.469	60.304	-20.531	74.000	-6.835	PK
4		9760.000	51.129	54.002	-22.871	74.000	-2.874	PK

Profile: 2430175R	Page No.: 59
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/04/30 - 10:36
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	46.084	56.790	-27.916	74.000	-10.707	PK
2	*	7438.440	47.000	53.790	-7.000	54.000	-6.789	AV
3		7443.000	53.503	60.260	-20.497	74.000	-6.757	PK
4		9920.000	52.048	53.870	-21.952	74.000	-1.821	PK

Profile: 2430175R	Page No.: 60
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/04/30 - 10:36
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	

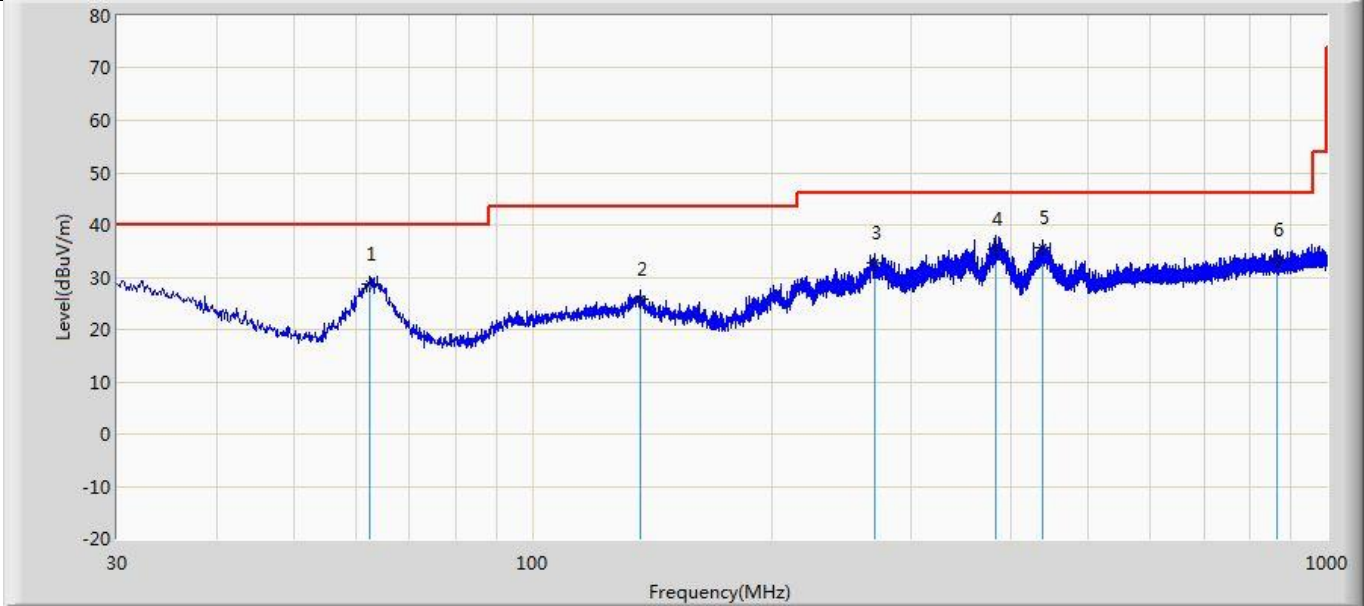


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4961.000	46.816	57.487	-27.184	74.000	-10.671	PK
2	*	7443.000	52.594	59.351	-21.406	74.000	-6.757	PK
3		9920.000	52.007	53.829	-21.993	74.000	-1.821	PK

- 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.

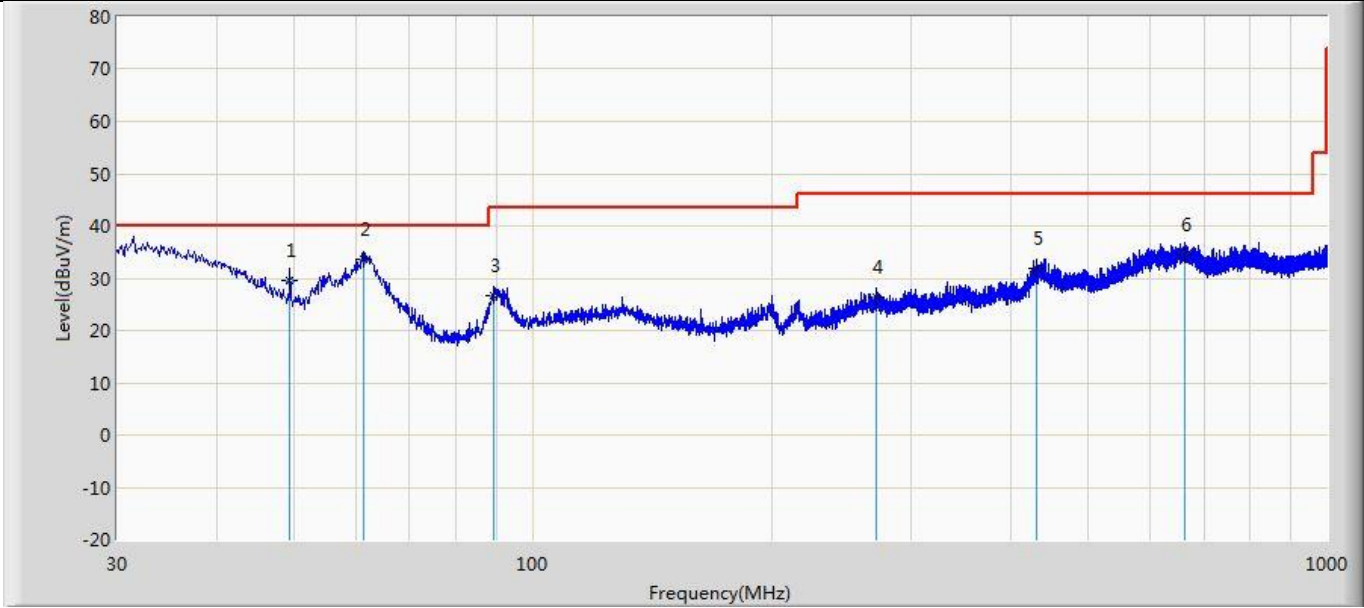
The worst case of Radiated Emission below 1GHz :

Profile: 2430175R	Page No.: 123
Engineer: Pengchengyang	
Site: AC2	Time: 2024/04/11 - 07:49
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 2480MHz by Zigbee	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		62.495	28.718	15.710	-11.282	40.000	13.007	QP
2		136.458	25.855	7.296	-17.645	43.500	18.559	QP
3		269.105	32.723	12.357	-13.277	46.000	20.366	QP
4		383.565	35.458	12.435	-10.542	46.000	23.023	QP
5	*	438.370	35.511	11.108	-10.489	46.000	24.403	QP
6		864.564	33.354	3.975	-12.646	46.000	29.379	QP

Profile: 2430175R	Page No.: 124
Engineer: Pengchengyang	
Site: AC2	Time: 2024/04/11 - 07:50
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 2480MHz by Zigbee	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		49.521	29.670	14.581	-10.330	40.000	15.089	QP
2	*	61.161	33.600	20.541	-6.400	40.000	13.059	QP
3		89.534	26.739	10.959	-16.761	43.500	15.779	QP
4		270.802	26.460	6.142	-19.540	46.000	20.318	QP
5		430.489	31.753	7.506	-14.247	46.000	24.247	QP
6		661.591	34.577	7.061	-11.423	46.000	27.515	QP

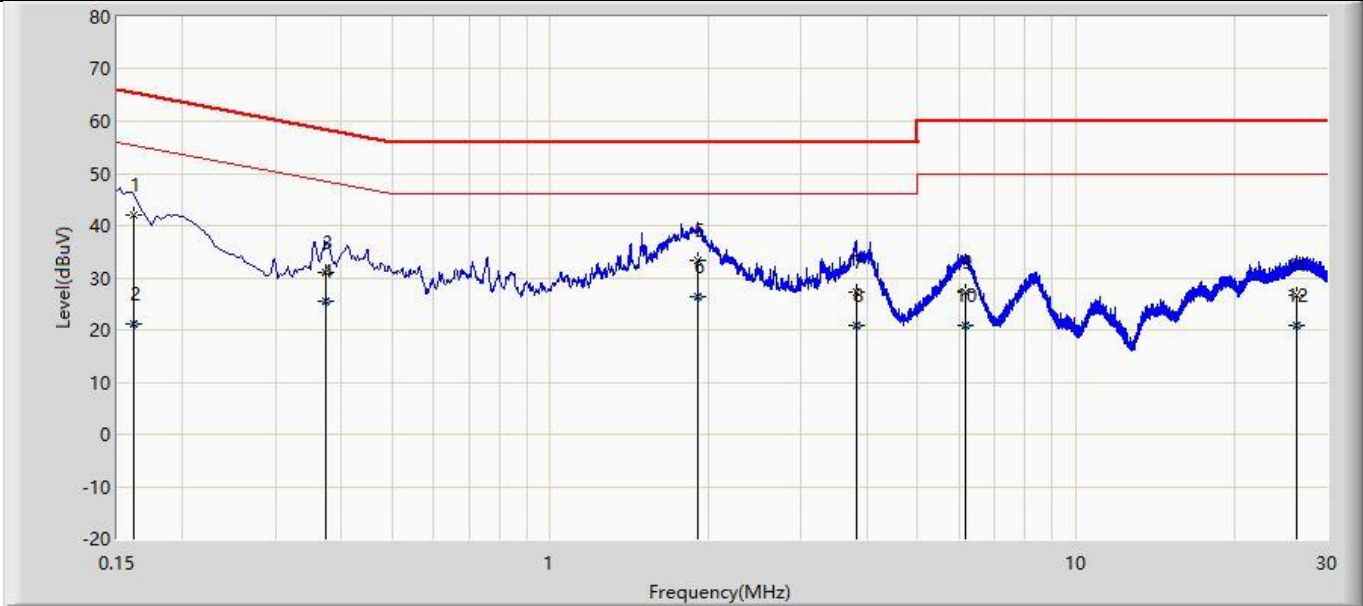
Note:

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

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

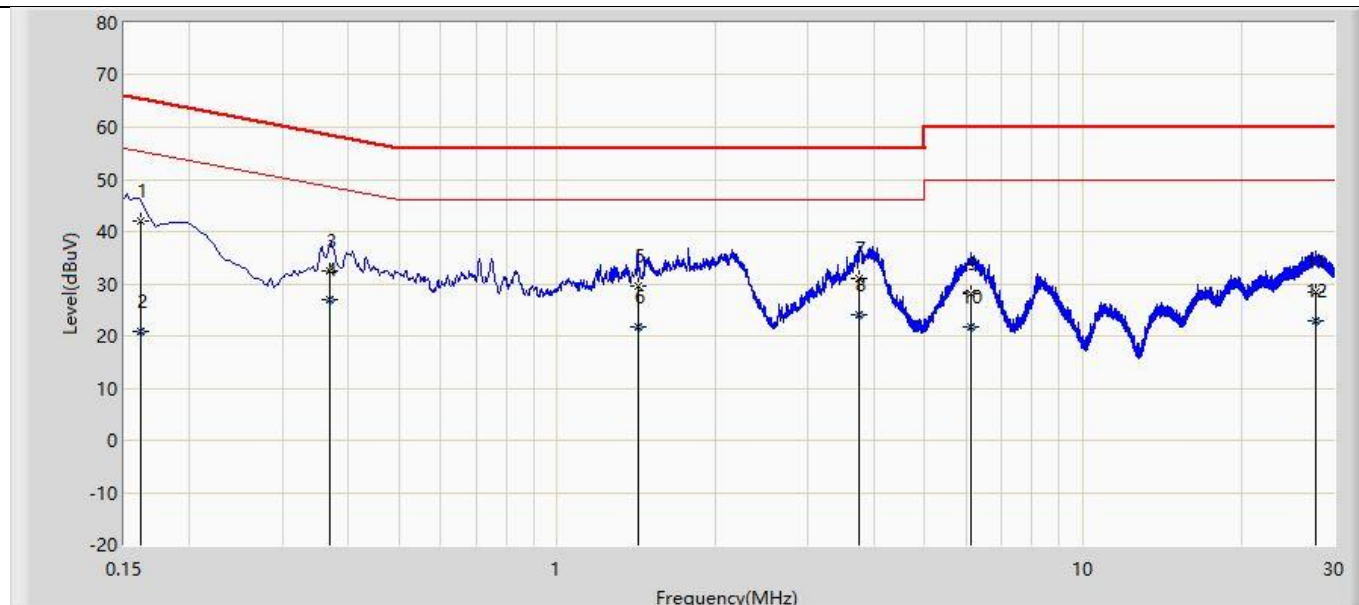
Appendix I: AC Power Line Conducted Emission

Profile: 2430175R	Page No.: 55
Engineer: Pengchengyang	
Site: TR1	Time: 2024/04/10 - 08:41
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: Transmit at 2480MHz by Zigbee	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.161	42.121	32.497	-23.278	65.399	9.624	QP
2		0.161	21.093	11.469	-34.306	55.399	9.624	AV
3		0.373	31.027	21.396	-27.413	58.439	9.630	QP
4		0.373	25.458	15.827	-22.982	48.439	9.630	AV
5		1.912	33.358	23.665	-22.642	56.000	9.693	QP
6	*	1.912	26.330	16.637	-19.670	46.000	9.693	AV
7		3.826	27.169	17.432	-28.831	56.000	9.736	QP
8		3.826	20.772	11.036	-25.228	46.000	9.736	AV
9		6.153	27.164	17.372	-32.836	60.000	9.792	QP
10		6.153	20.787	10.995	-29.213	50.000	9.792	AV
11		26.356	26.553	16.475	-33.447	60.000	10.078	QP
12		26.356	20.944	10.866	-29.056	50.000	10.078	AV

Profile: 2430175R	Page No.: 56
Engineer: Pengchengyang	
Site: TR1	Time: 2024/04/10 - 08:43
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: Transmit at 2480MHz by Zigbee	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.161	41.943	32.313	-23.456	65.399	9.630	QP
2		0.161	20.962	11.332	-34.437	55.399	9.630	AV
3		0.370	32.335	22.695	-26.154	58.490	9.640	QP
4	*	0.370	26.914	17.274	-21.576	48.490	9.640	AV
5		1.421	29.458	19.778	-26.542	56.000	9.681	QP
6		1.421	21.612	11.931	-24.388	46.000	9.681	AV
7		3.761	31.115	21.370	-24.885	56.000	9.745	QP
8		3.761	23.989	14.244	-22.011	46.000	9.745	AV
9		6.122	28.044	18.248	-31.956	60.000	9.796	QP
10		6.122	21.663	11.867	-28.337	50.000	9.796	AV
11		27.649	28.546	18.429	-31.454	60.000	10.117	QP
12		27.649	22.833	12.716	-27.167	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 _____