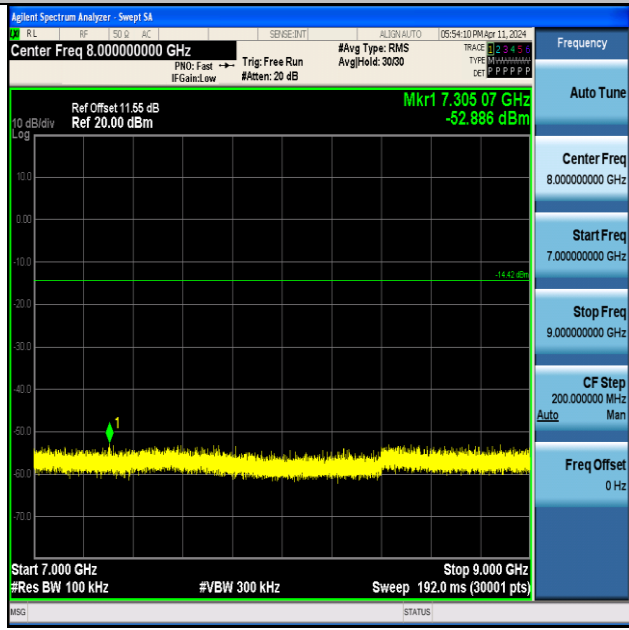
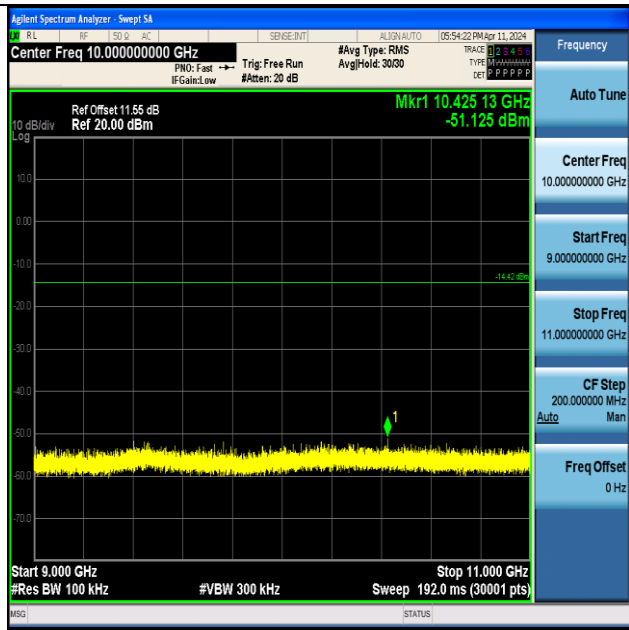


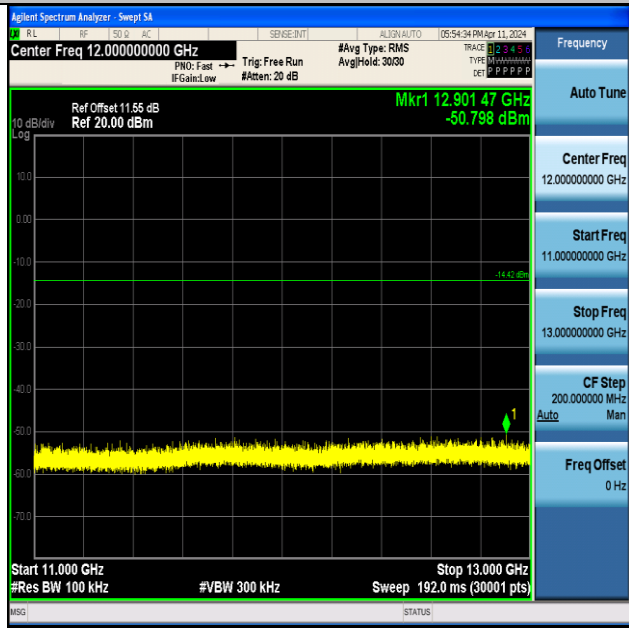
ZIGB-Ant1-2440-5000~7000-PASS



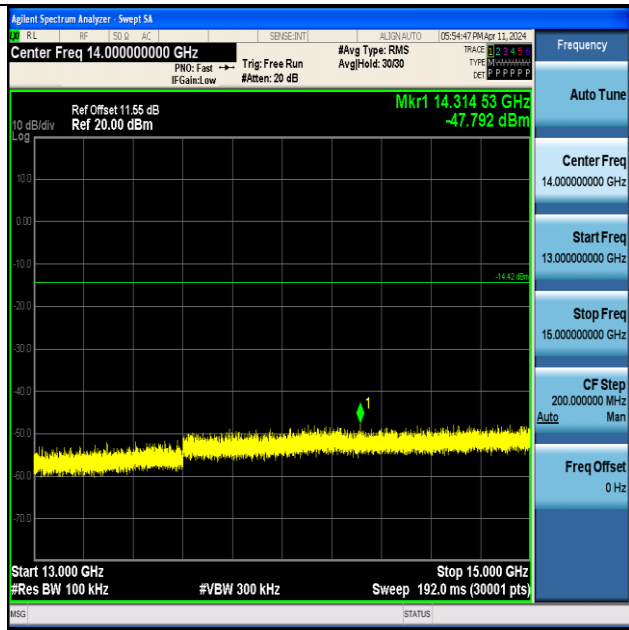
ZIGB-Ant1-2440-7000~9000-PASS



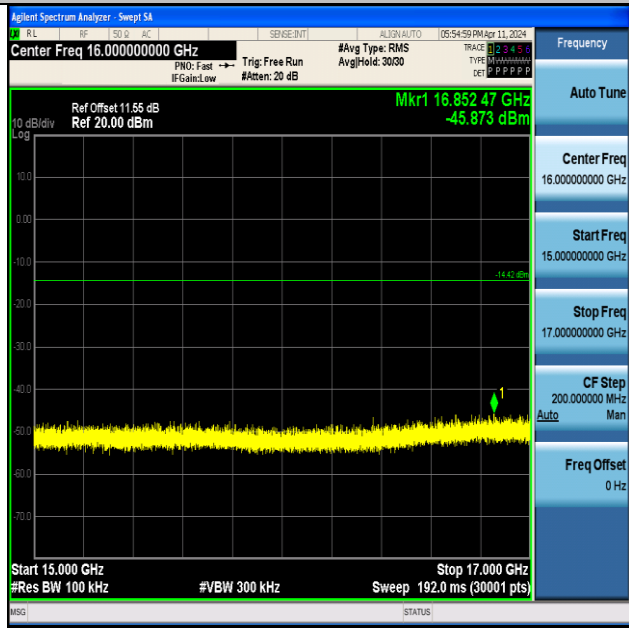
ZIGB-Ant1-2440-9000~11000-PASS



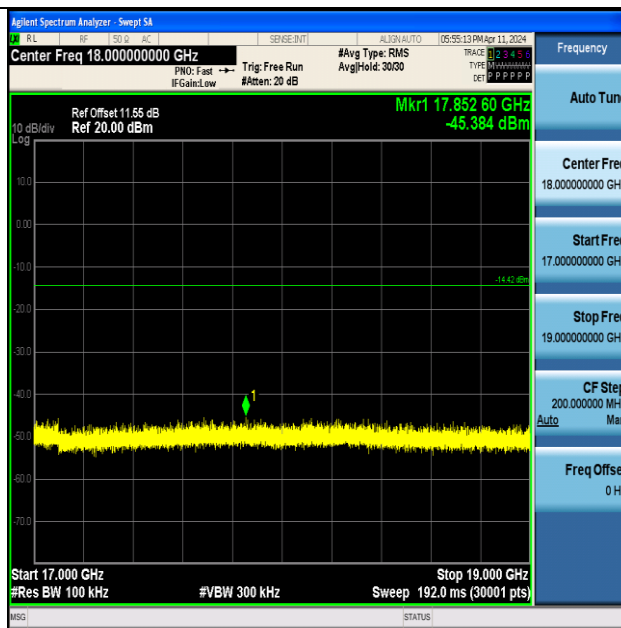
ZIGB-Ant1-2440-11000~13000-PASS



ZIGB-Ant1-2440-13000~15000-PASS



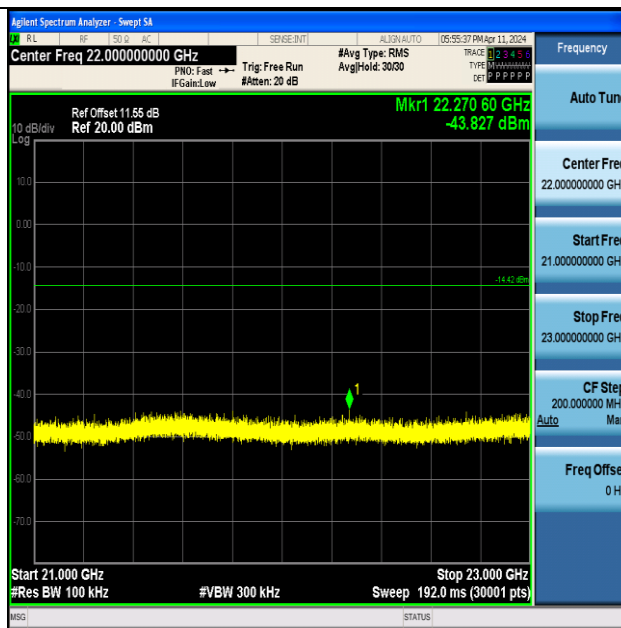
ZIGB-Ant1-2440-15000~17000-PASS



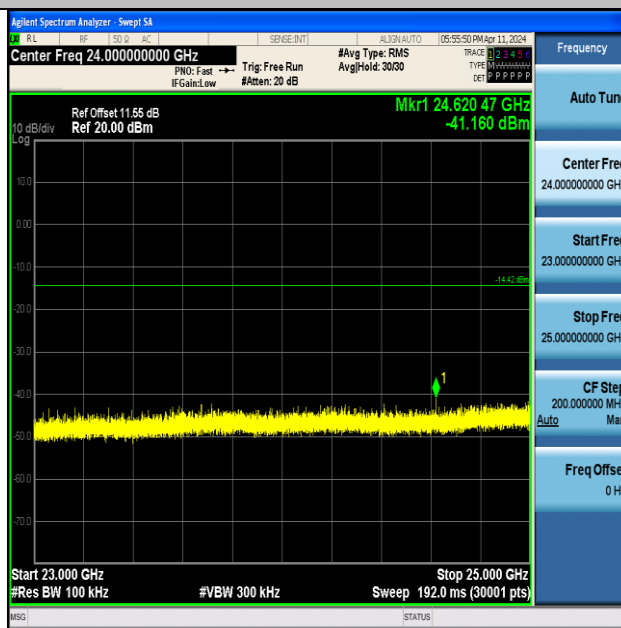
ZIGB-Ant1-2440-17000~19000-PASS



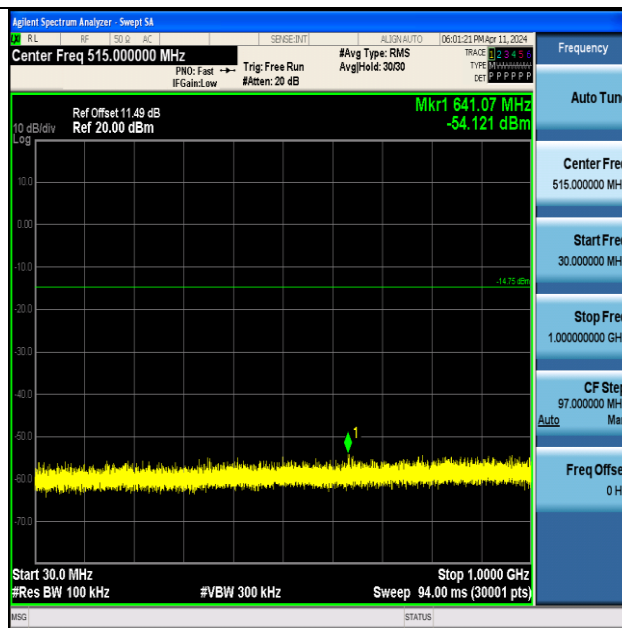
ZIGB-Ant1-2440-19000~21000-PASS



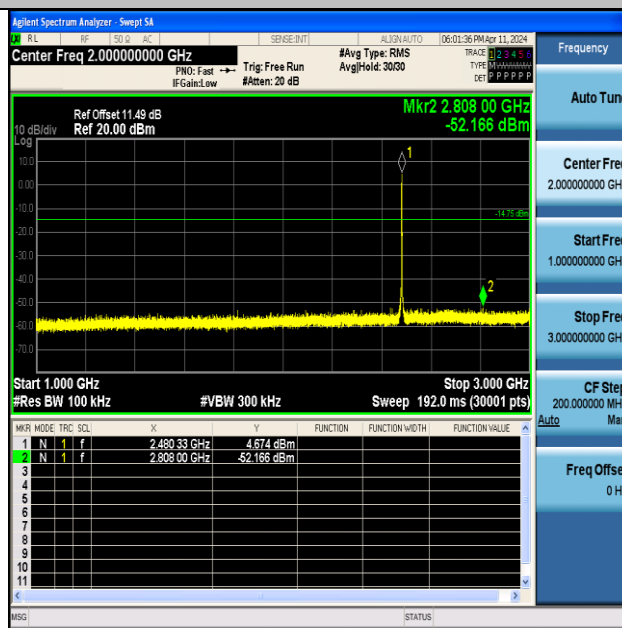
ZIGB-Ant1-2440-21000~23000-PASS



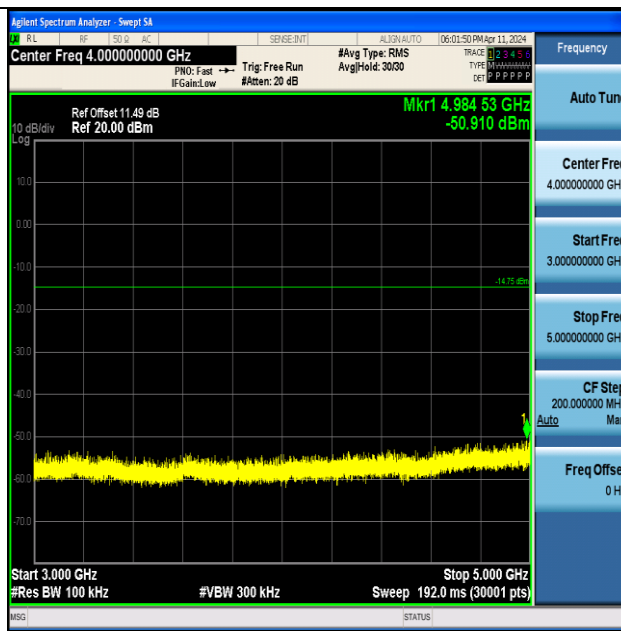
ZIGB-Ant1-2440-23000~25000-PASS



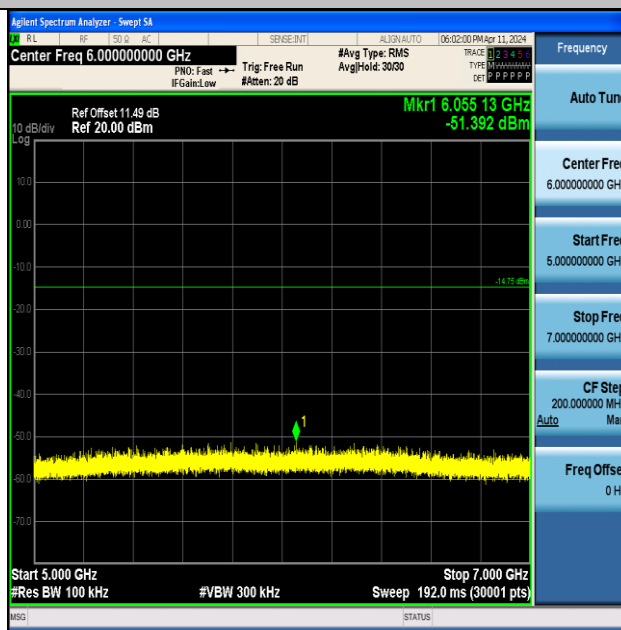
ZIGB-Ant1-2480-30~1000-PASS



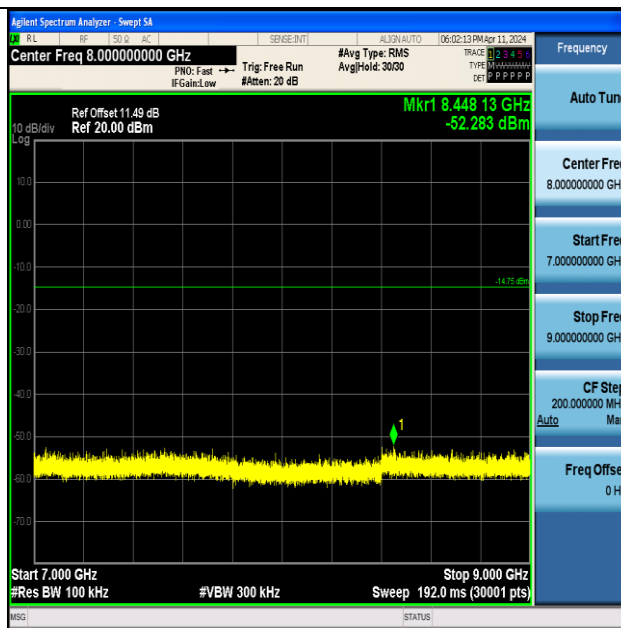
ZIGB-Ant1-2480-1000~3000-PASS



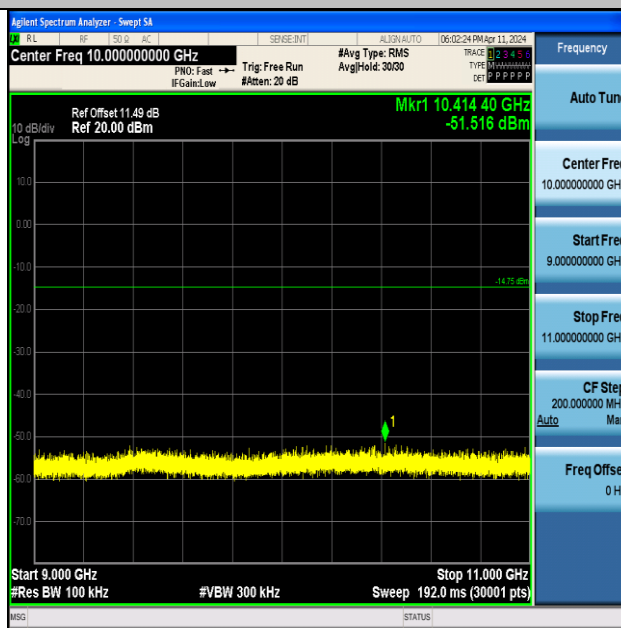
ZIGB-Ant1-2480-3000~5000-PASS



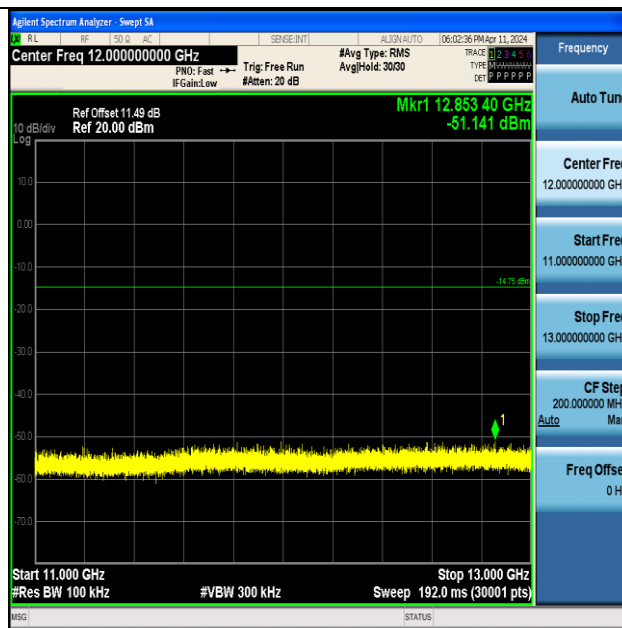
ZIGB-Ant1-2480-5000~7000-PASS



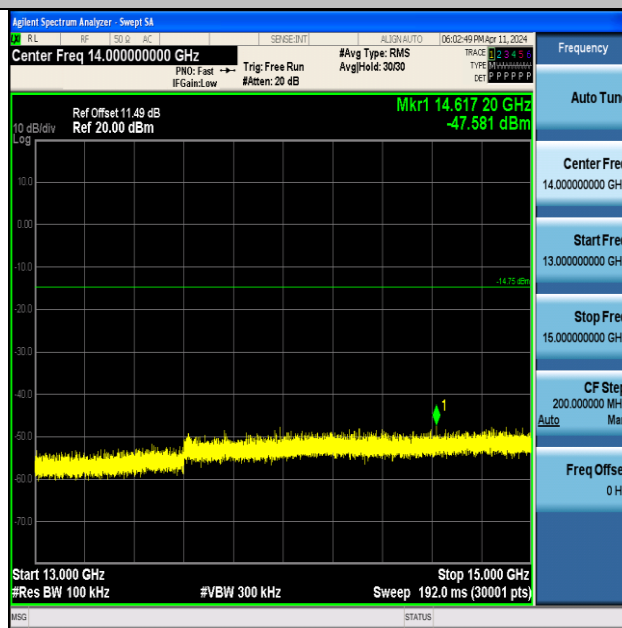
ZIGB-Ant1-2480-7000~9000-PASS



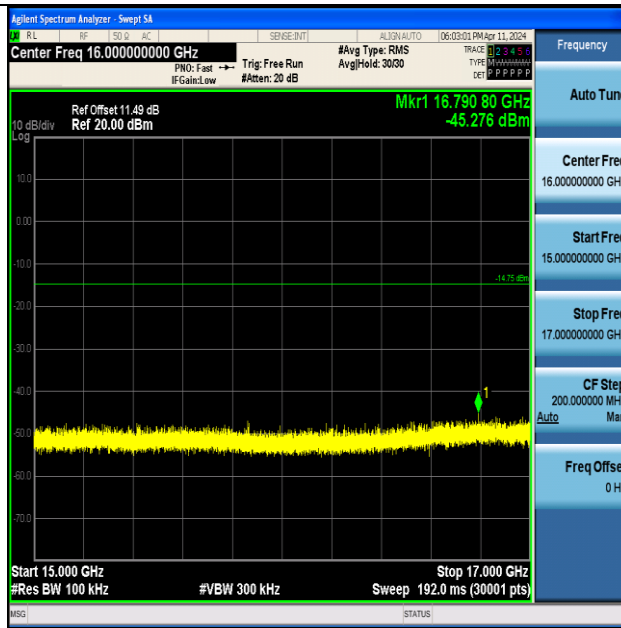
ZIGB-Ant1-2480-9000~11000-PASS



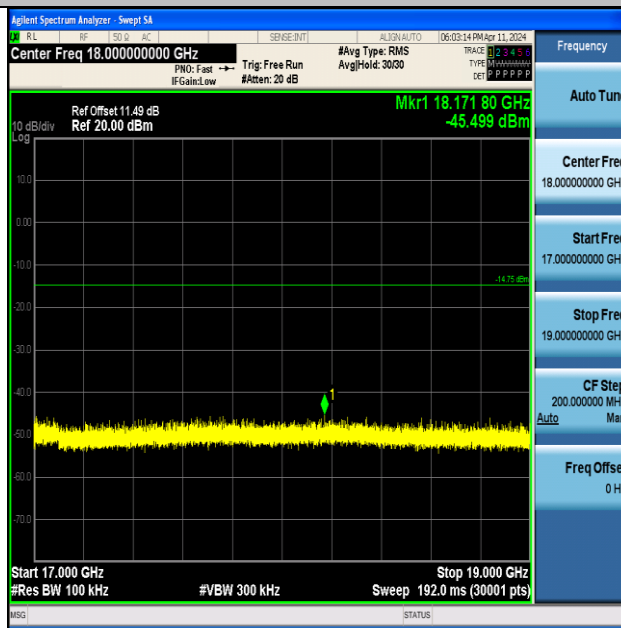
ZIGB-Ant1-2480-11000~13000-PASS



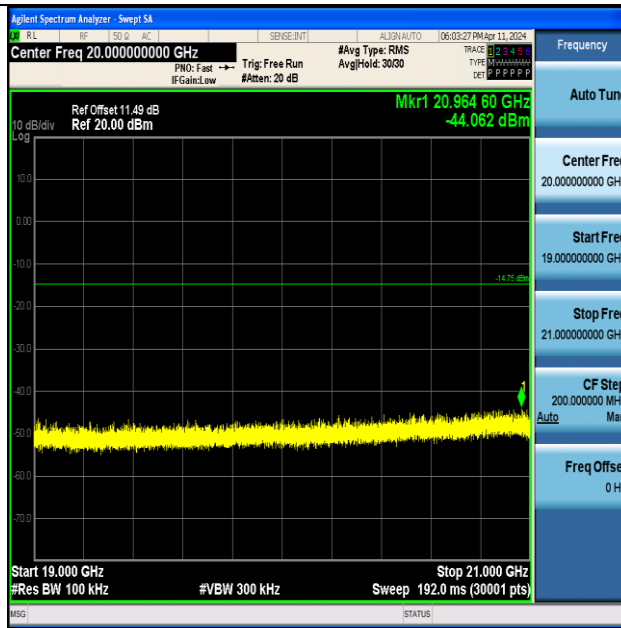
ZIGB-Ant1-2480-13000~15000-PASS



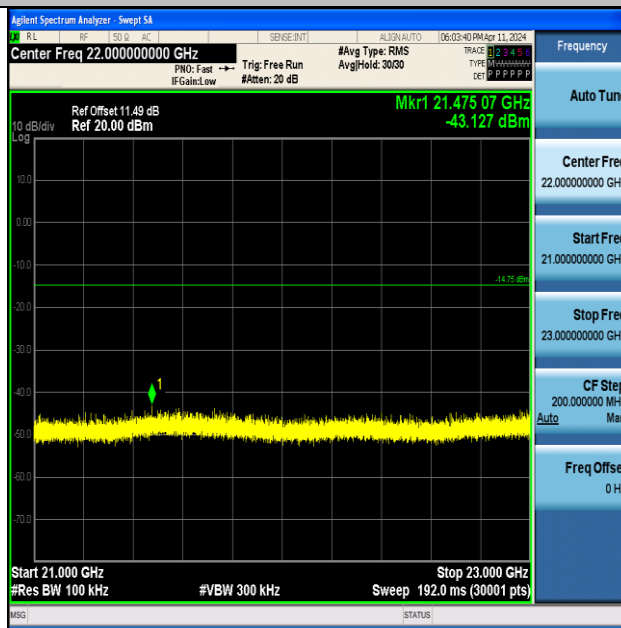
ZIGB-Ant1-2480-15000~17000-PASS



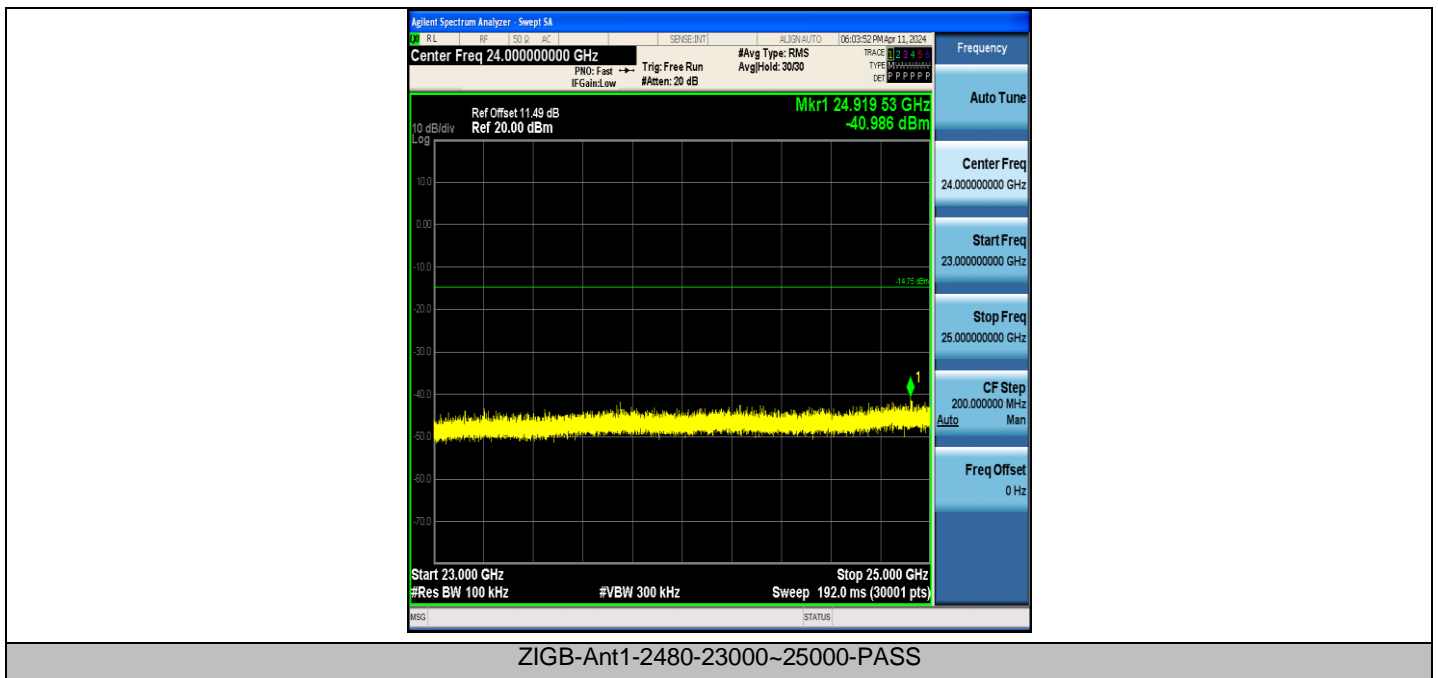
ZIGB-Ant1-2480-17000~19000-PASS



ZIGB-Ant1-2480-19000~21000-PASS

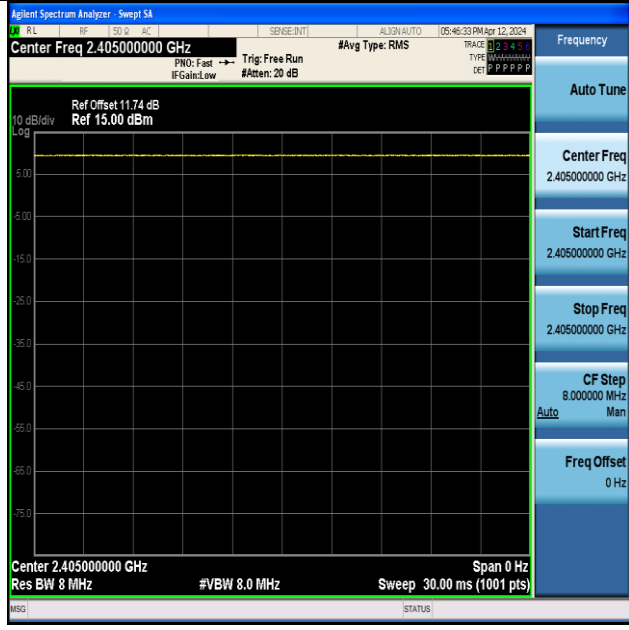


ZIGB-Ant1-2480-21000~23000-PASS

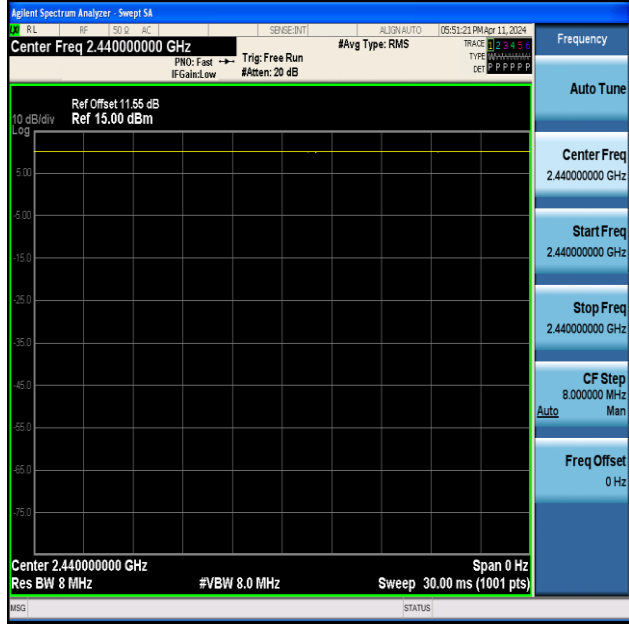


Appendix G: Duty Cycle

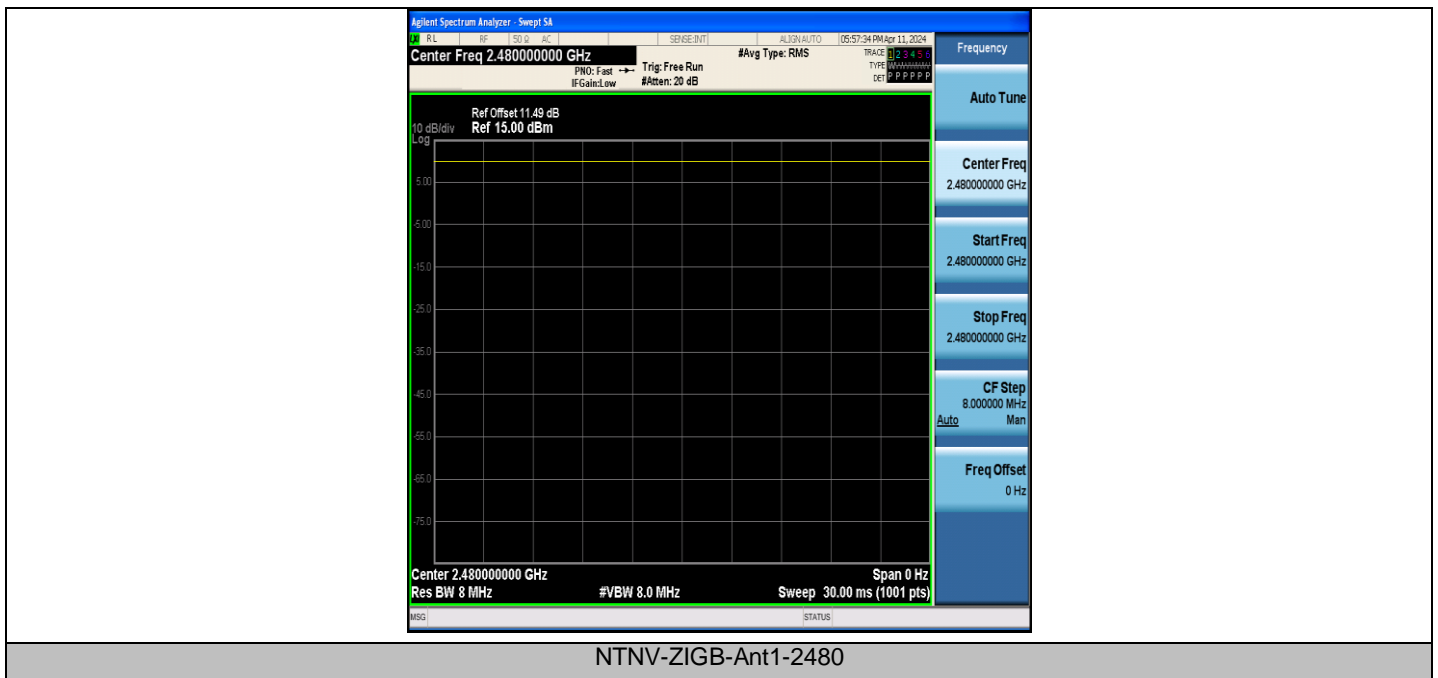
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
ZIGB	Ant1	2405	0.00	0.00	100
ZIGB	Ant1	2440	0.00	0.00	100
ZIGB	Ant1	2480	0.00	0.00	100



NTNV-ZIGB-Ant1-2405

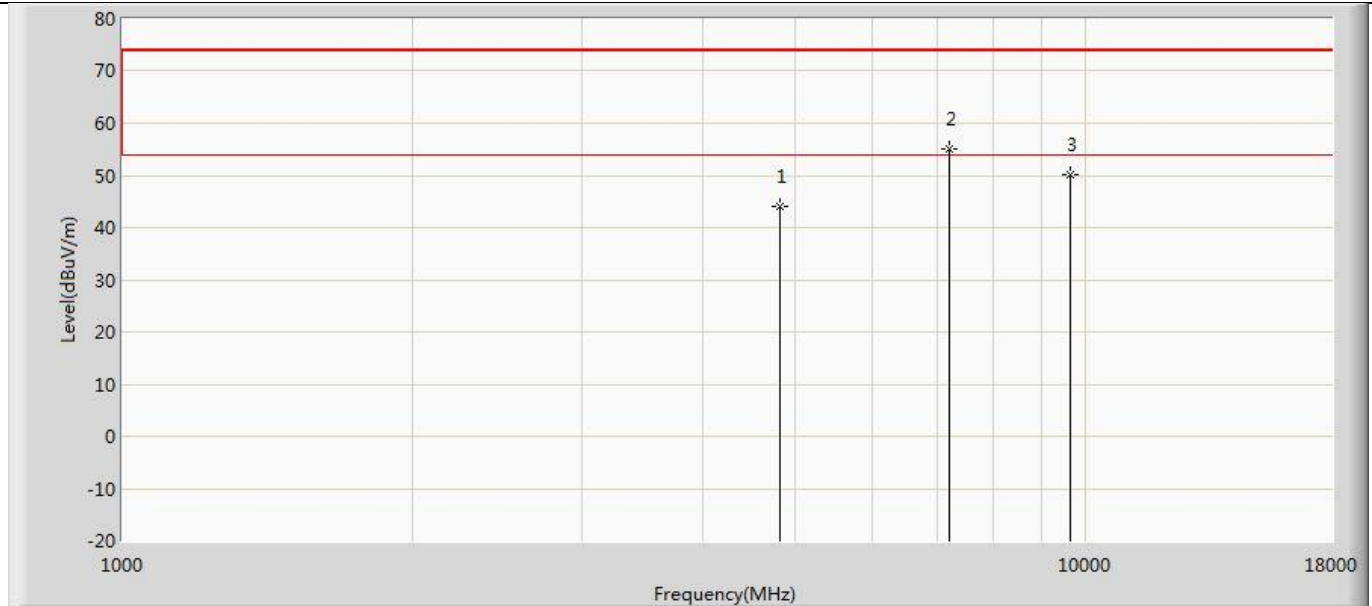


NTNV-ZIGB-Ant1-2440



Appendix H: Emissions in Restricted Bands

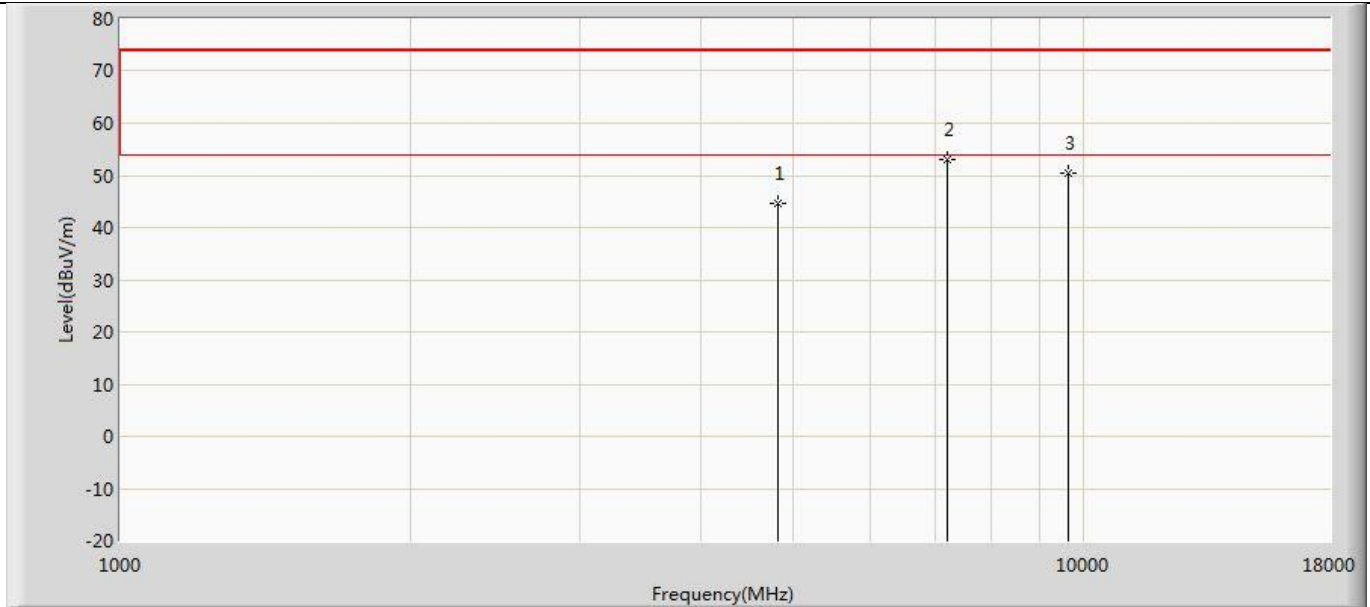
Profile: 2430175R	Page No.: 55
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/04/30 - 10:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: LED lamp	Power: AC 120V/60Hz
Note: Mode 5 : Transmit at 2405MHz by Zigbee	



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 complies with the RSE requirements.

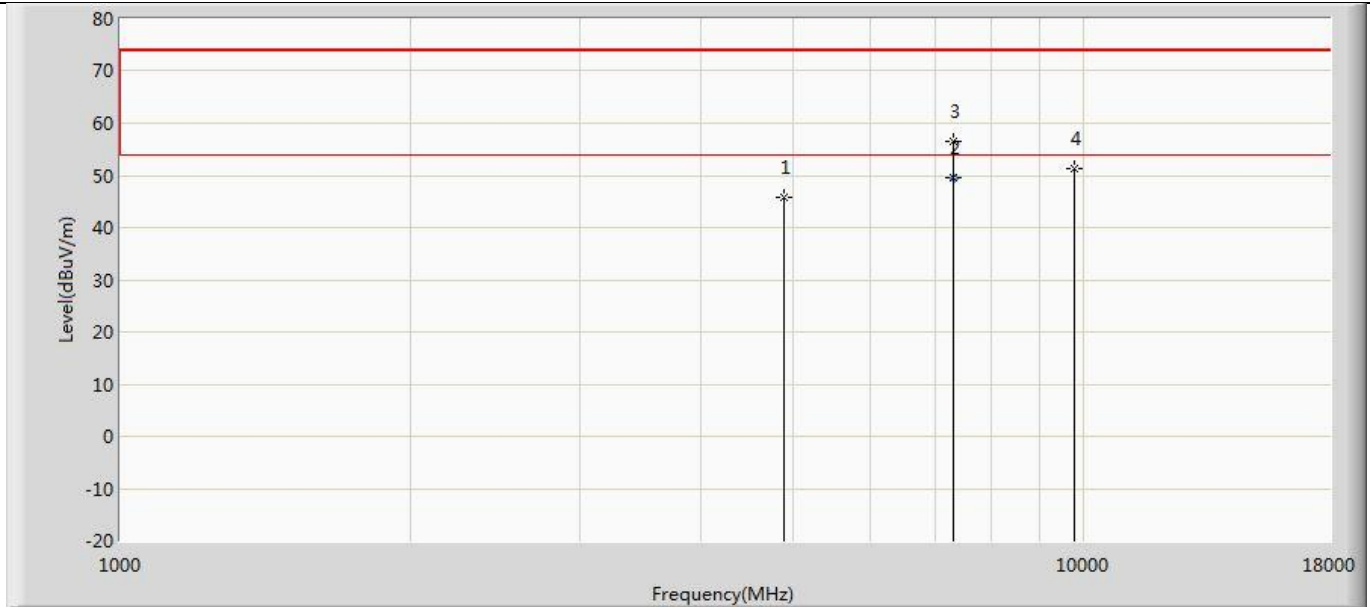
Profile: 2430175R	Page No.: 56
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/04/30 - 10:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: LED lamp	Power: AC 120V/60Hz
Note: Mode 5 : Transmit at 2405MHz by Zigbee	



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

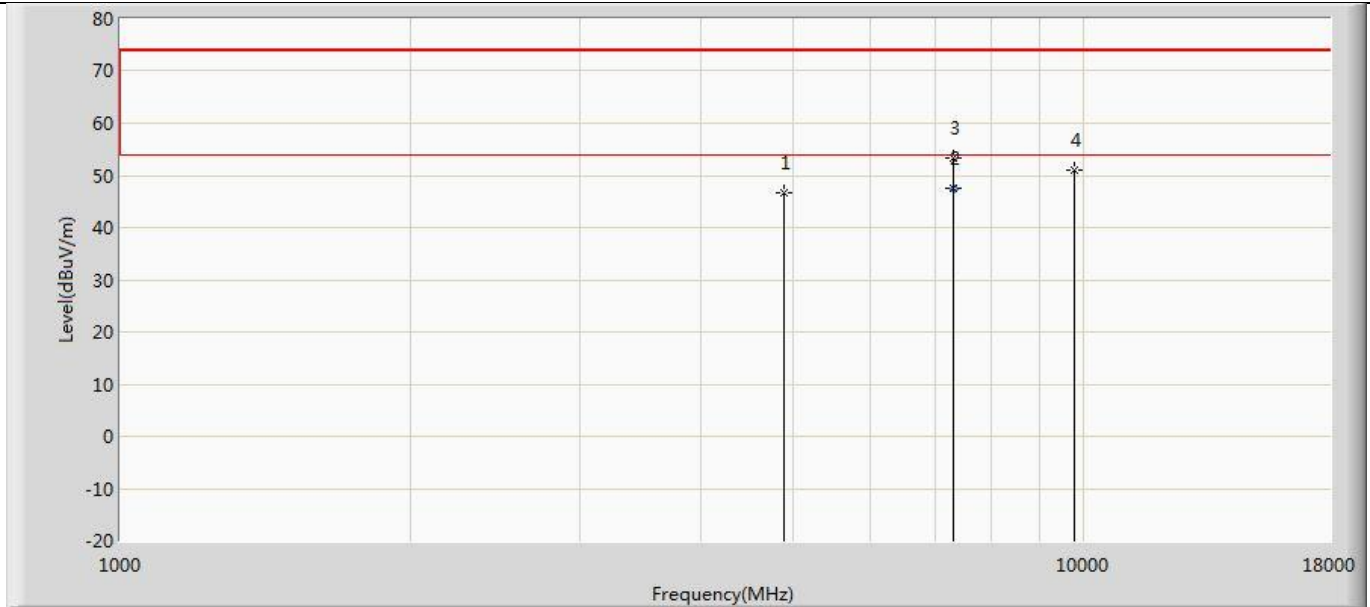
Note: The No. 2 is non-restricted bands, so the limit is Fundamental emission down 20dB, and then we evaluated each channel, it is complies with the RSE requirements.

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	



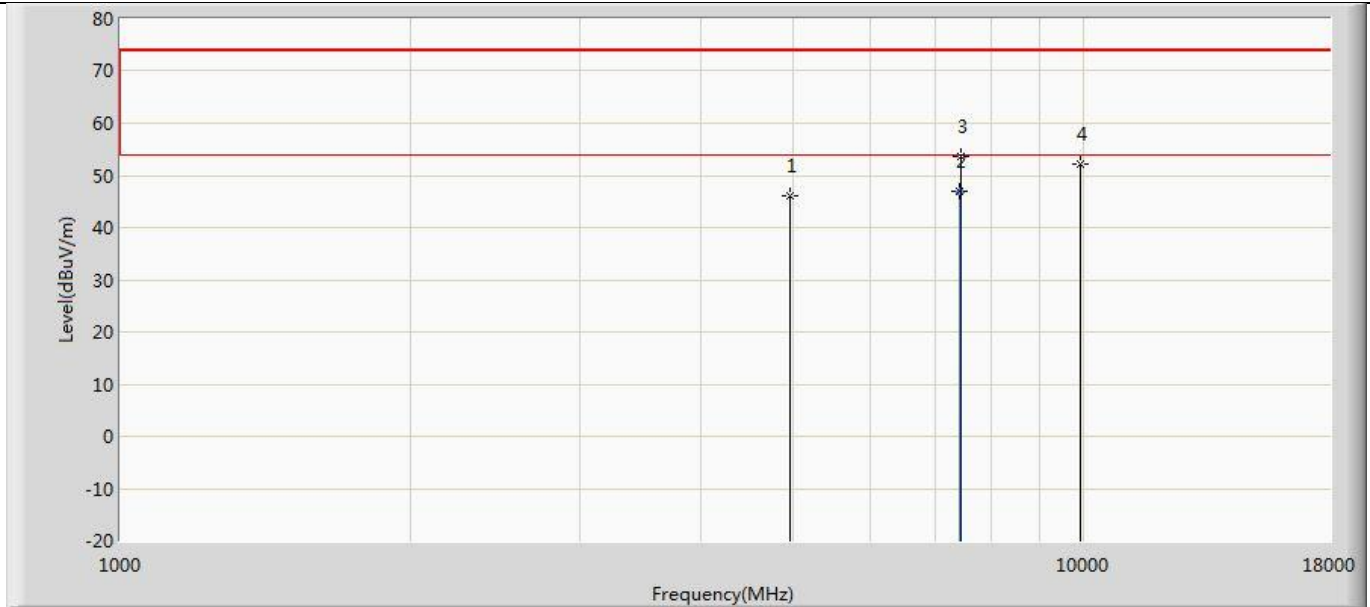
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4880.000	45.732	56.336	-28.268	74.000	-10.603	PK
2	*	7321.560	49.709	56.600	-4.291	54.000	-6.892	AV
3		7324.000	56.482	63.317	-17.518	74.000	-6.835	PK
4		9760.000	51.257	54.130	-22.743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



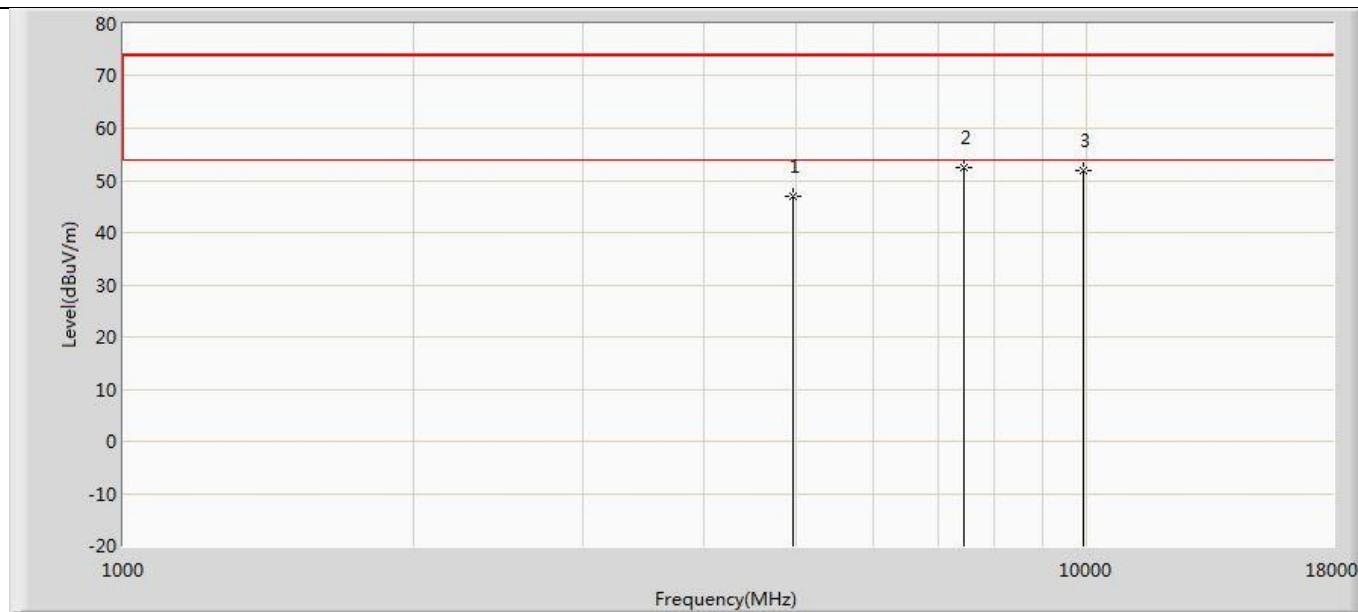
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4880.000	46.638	57.242	-27.362	74.000	-10.603	PK
2	*	7321.520	47.628	54.520	-6.372	54.000	-6.893	AV
3		7324.000	53.469	60.304	-20.531	74.000	-6.835	PK
4		9760.000	51.129	54.002	-22.871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



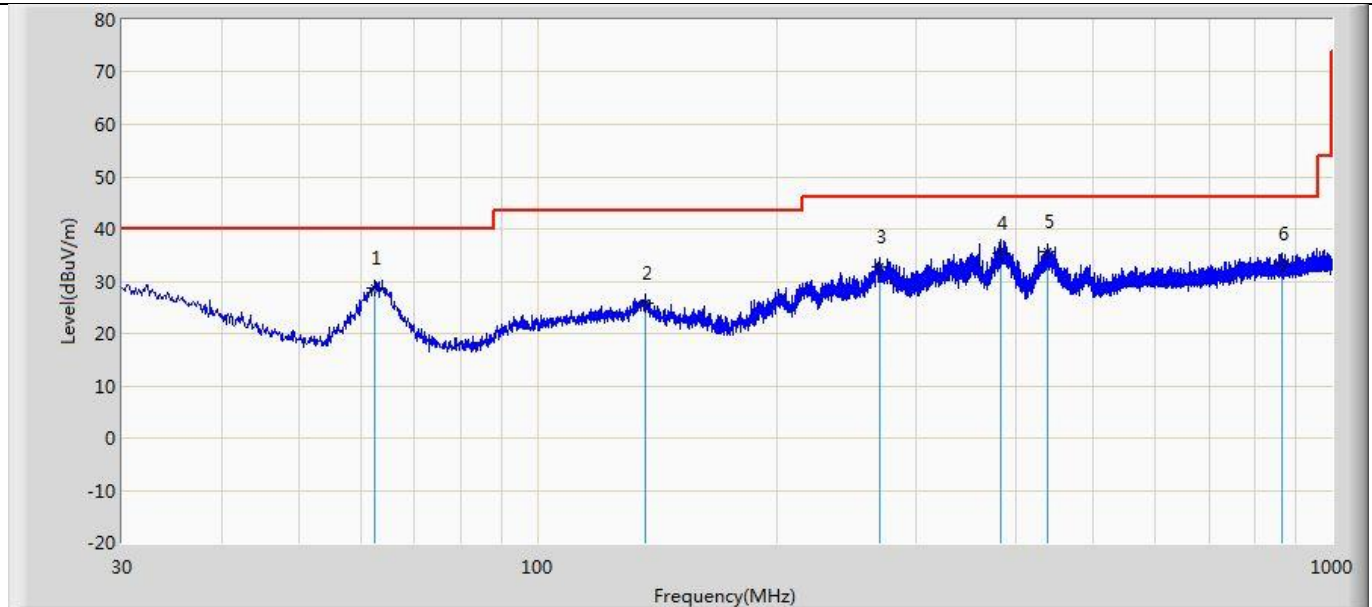
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4961.000	46.816	57.487	-27.184	74.000	-10.671	PK
2	*	7443.000	52.594	59.351	-21.406	74.000	-6.757	PK
3		9920.000	52.007	53.829	-21.993	74.000	-1.821	PK

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.

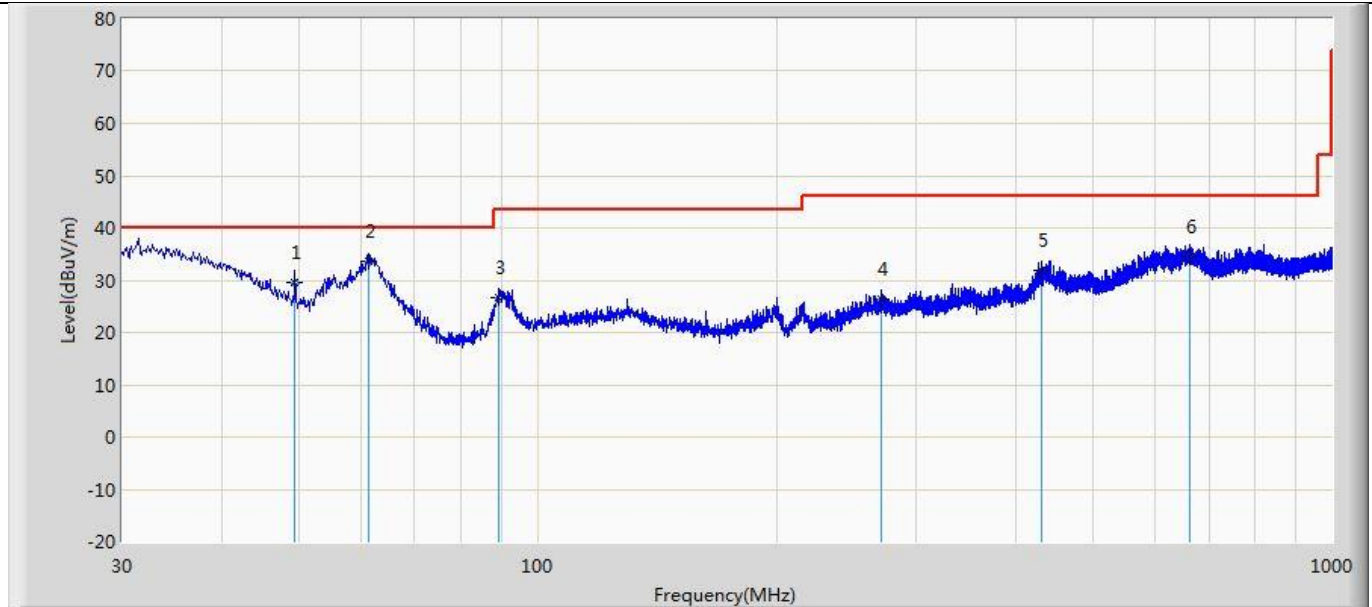
The worst case of Radiated Emission below 1GHz :

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	



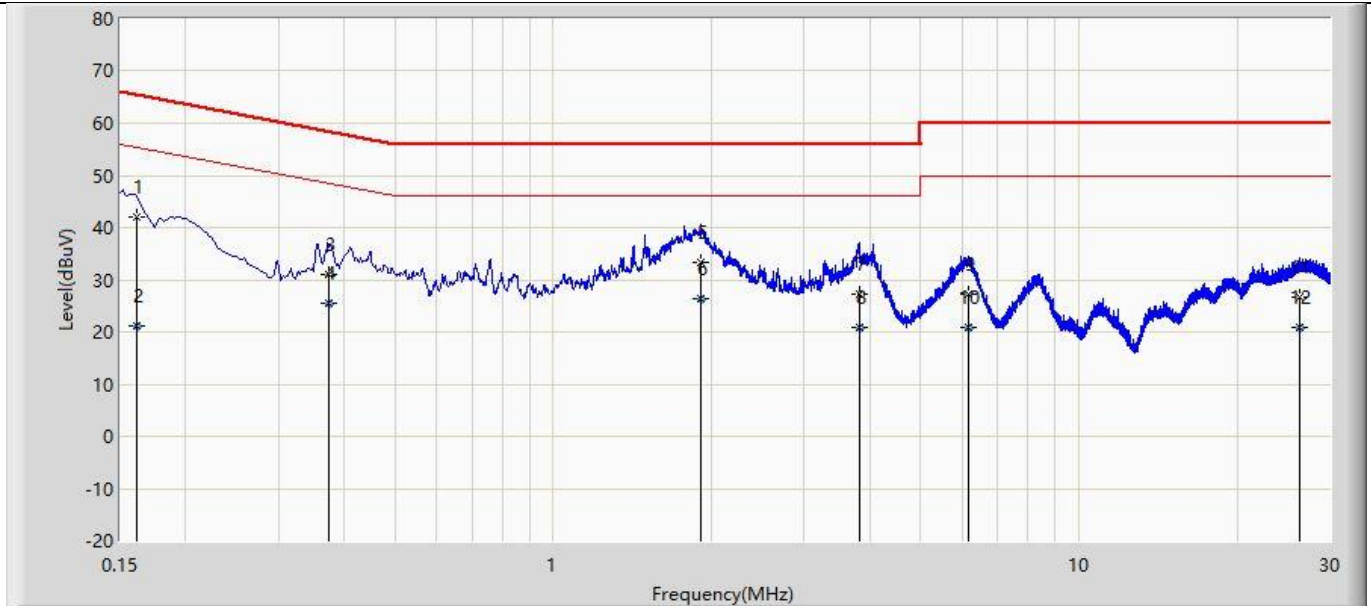
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		49.521	29.670	14.581	-10.330	40.000	15.089	QP
2	*	61.161	33.600	20.541	-6.400	40.000	13.059	QP
3		89.534	26.739	10.959	-16.761	43.500	15.779	QP
4		270.802	26.460	6.142	-19.540	46.000	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:

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

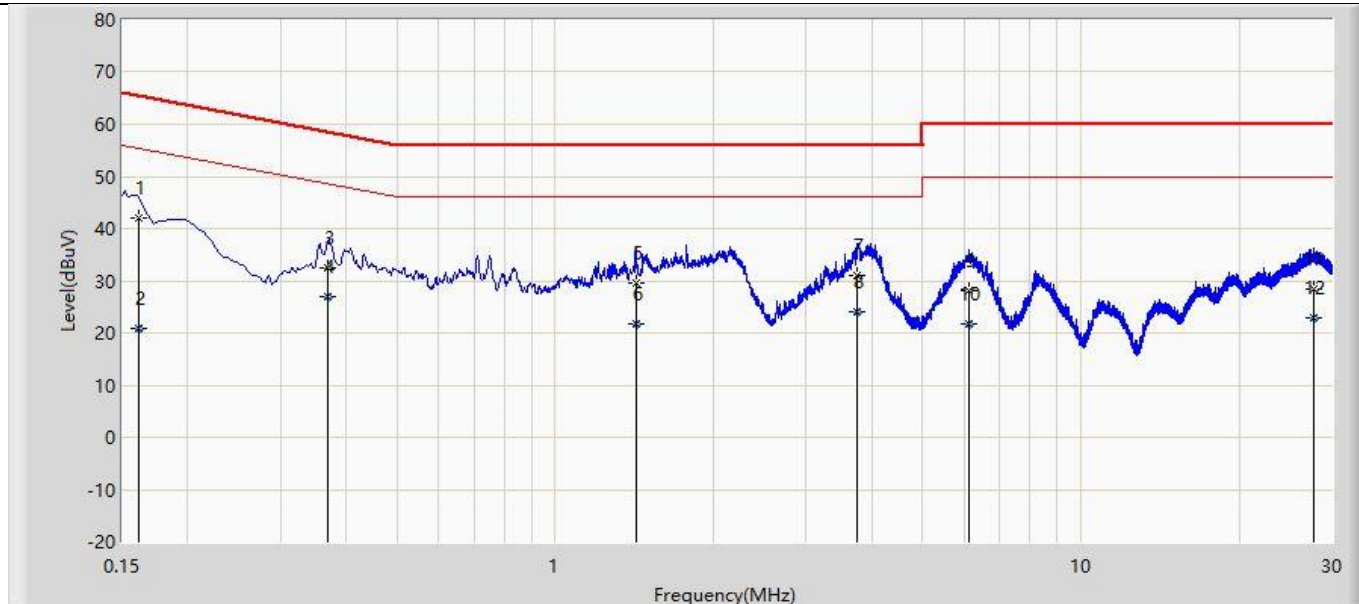
Appendix I: AC Power Line Conducted Emission

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