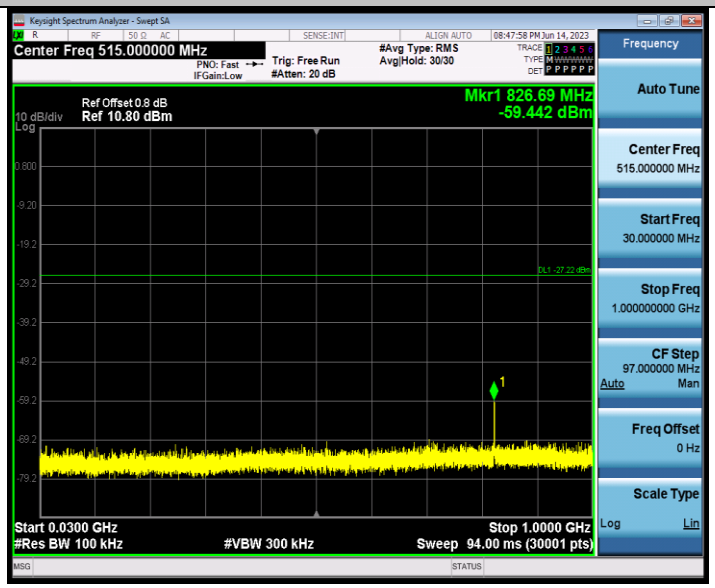
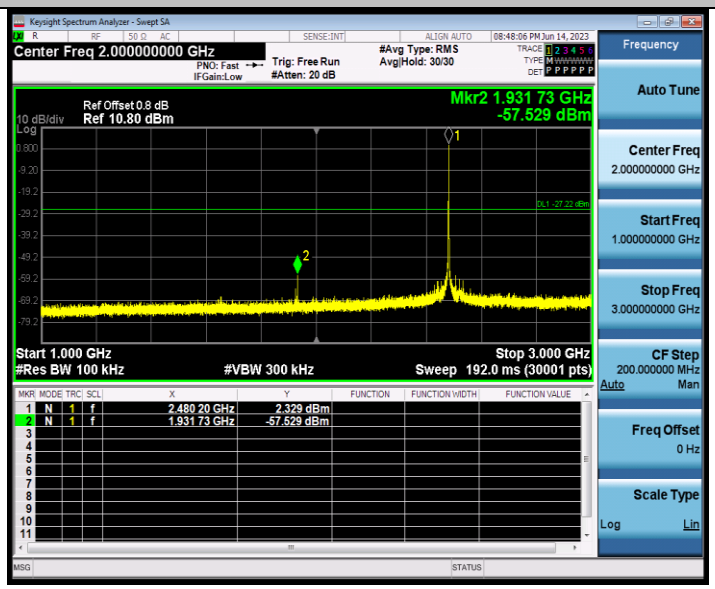
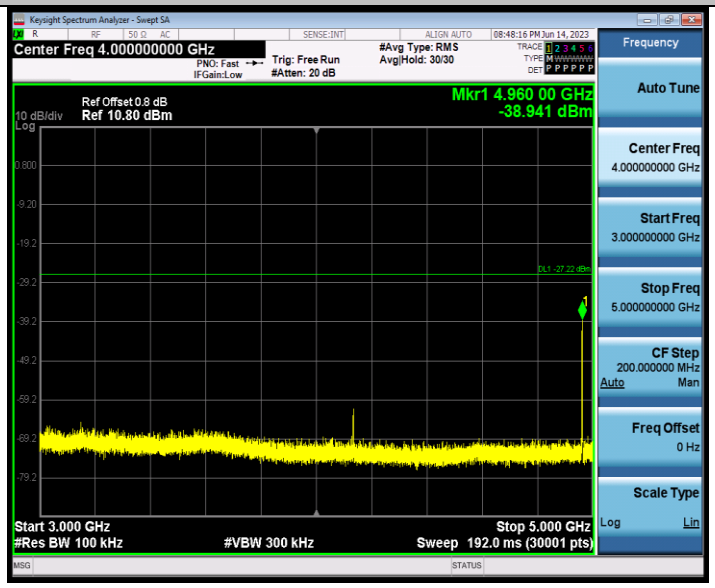
3DH5_Ant1_2480_30~1000

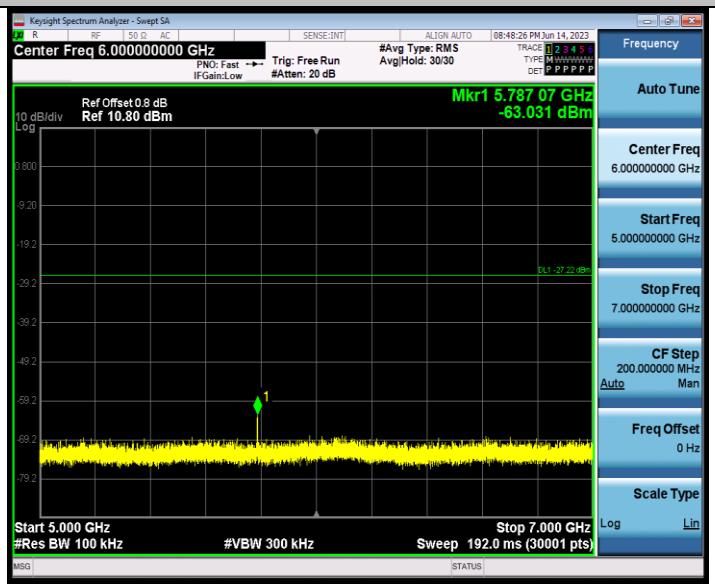


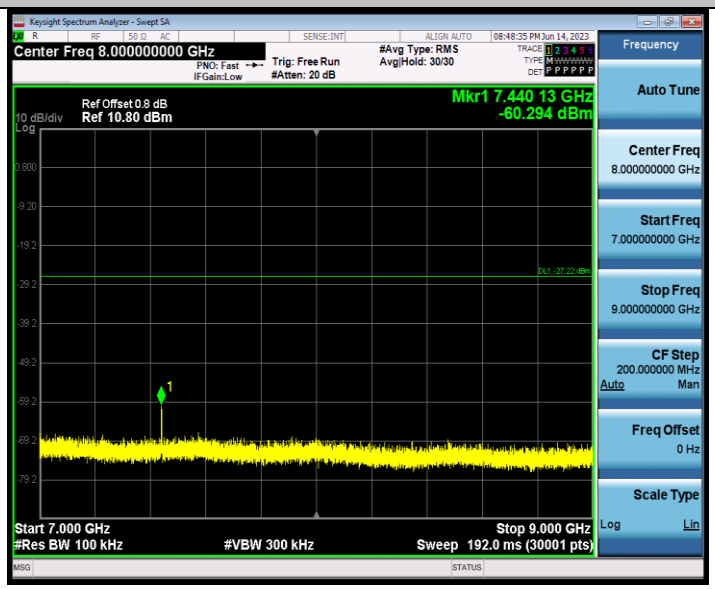
3DH5_Ant1_2480_1000~3000

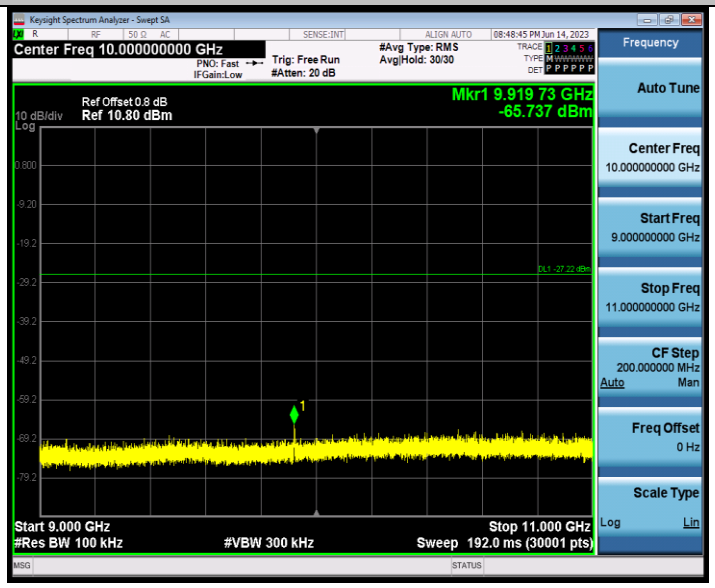


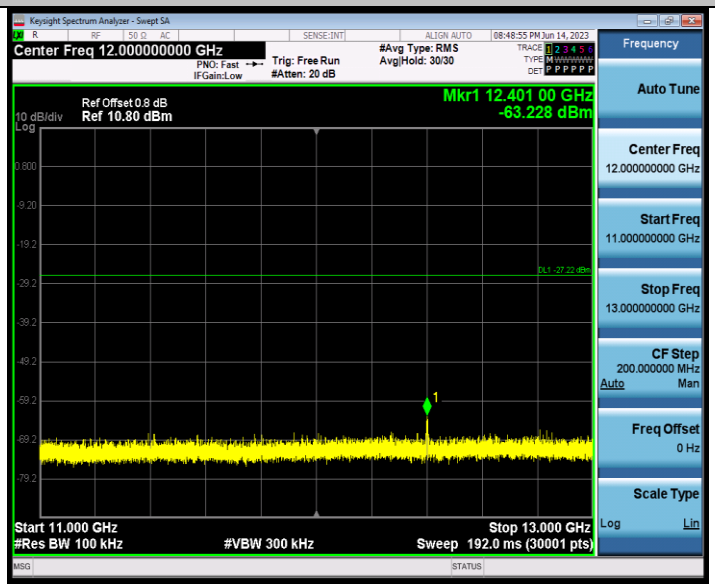
3DH5_Ant1_2480_3000~5000

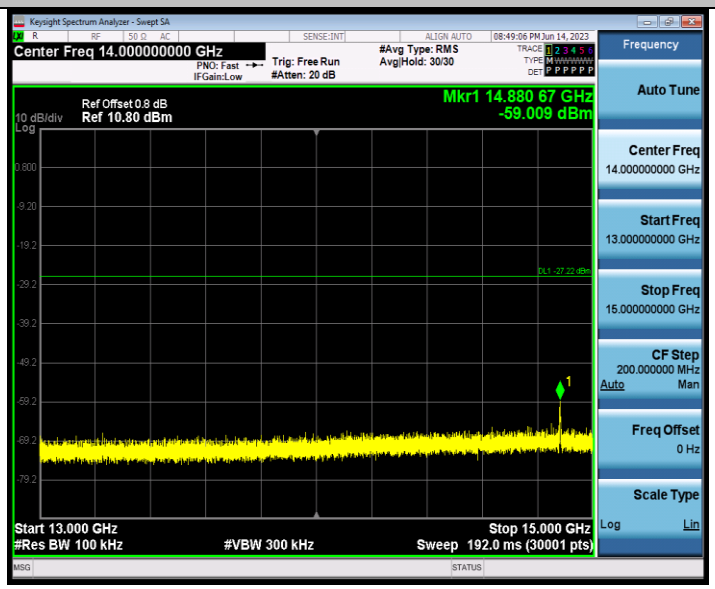


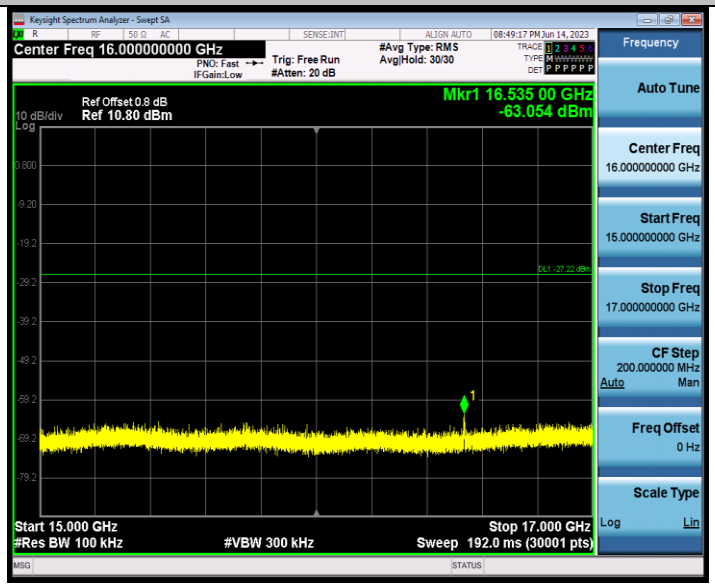
3DH5_Ant1_2480_5000~7000


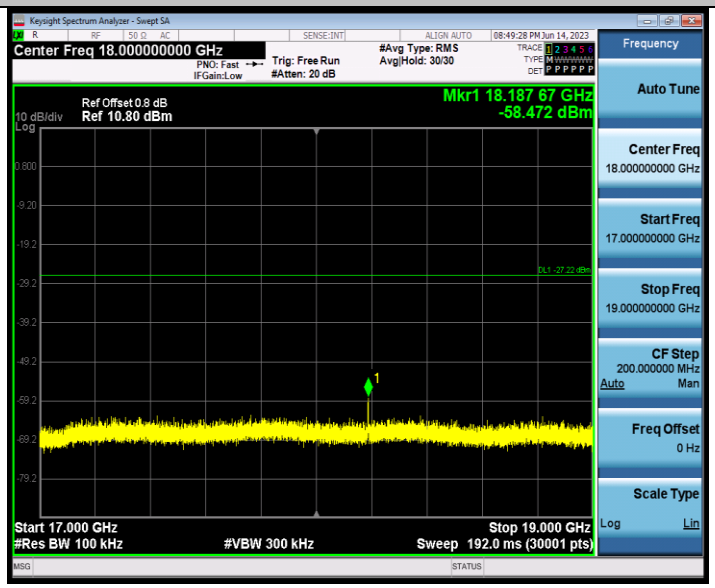
3DH5_Ant1_2480_7000~9000


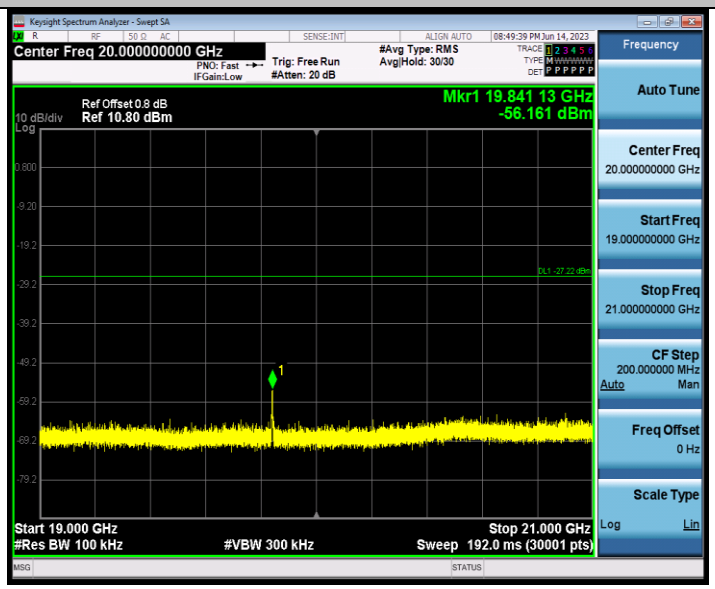
3DH5_Ant1_2480_9000~11000


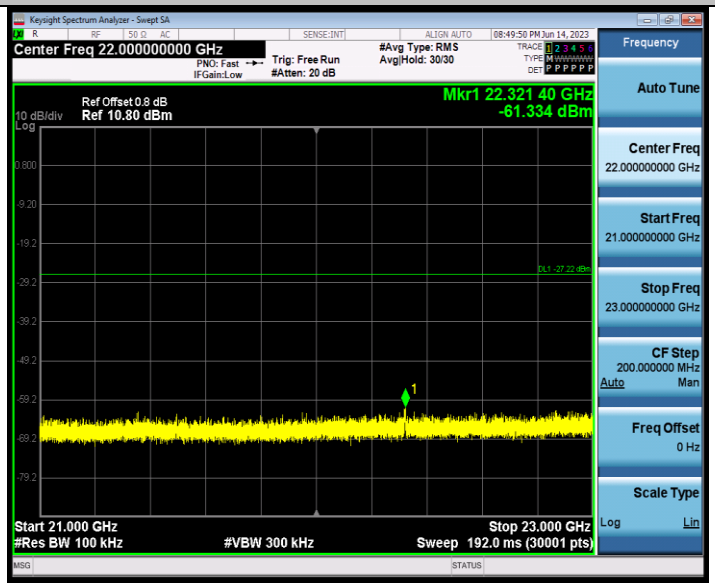
3DH5_Ant1_2480_11000~13000


3DH5_Ant1_2480_13000~15000


3DH5_Ant1_2480_15000~17000


3DH5_Ant1_2480_17000~19000


3DH5_Ant1_2480_19000~21000


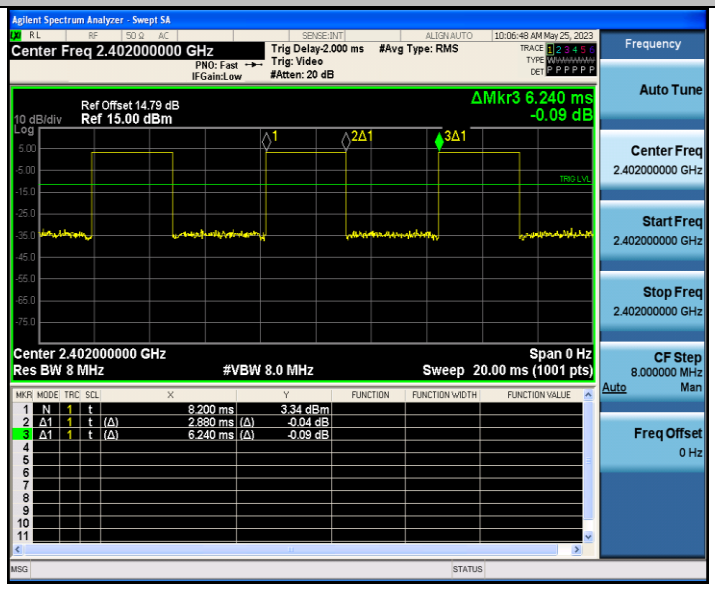
3DH5_Ant1_2480_21000~23000


3DH5_Ant1_2480_23000~25000

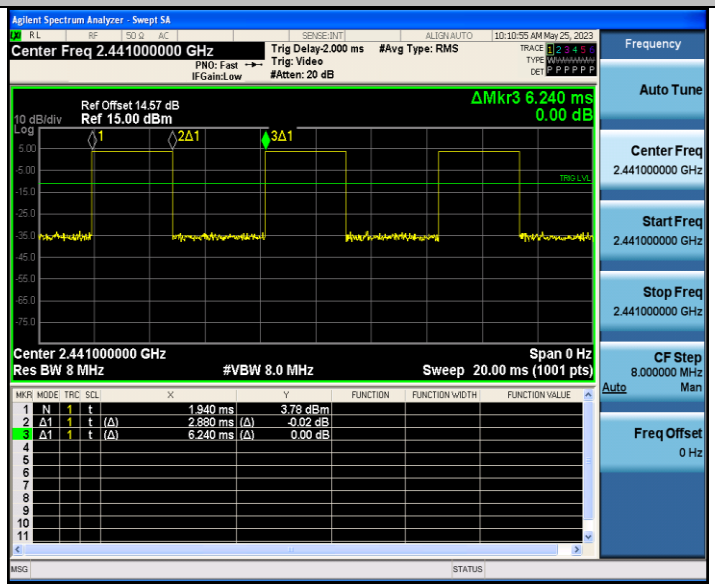

Appendix I: Duty Cycle

TestMode	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	2402	2.88	6.24	46.15	3.36
	2441	2.88	6.24	46.15	3.36
	2480	2.88	6.24	46.15	3.36
2DH5	2402	2.88	6.24	46.15	3.36
	2441	2.90	6.26	46.33	3.34
	2480	2.90	6.26	46.33	3.34
3DH5	2402	2.88	6.24	46.15	3.36
	2441	2.90	6.26	46.33	3.34
	2480	2.88	6.24	46.15	3.36

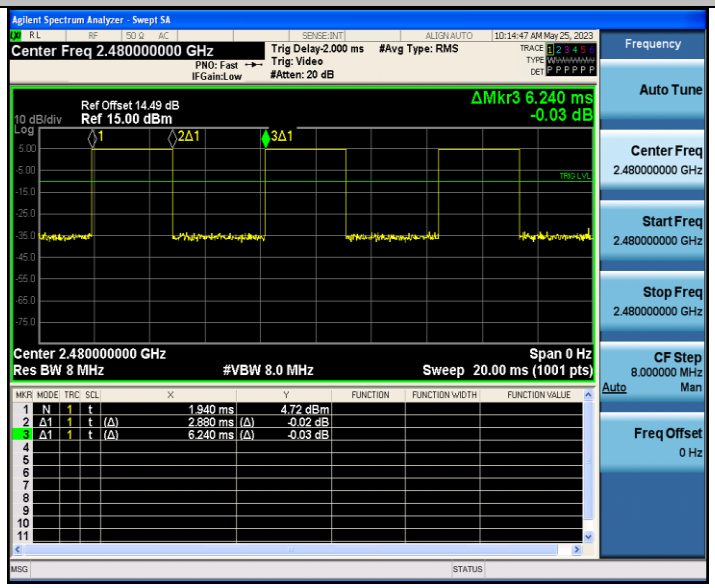
DH5_Ant1_2402



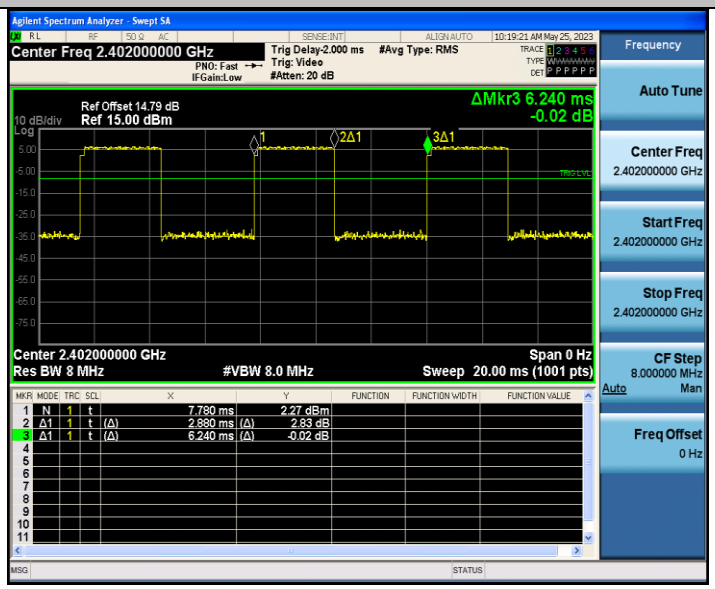
DH5_Ant1_2441



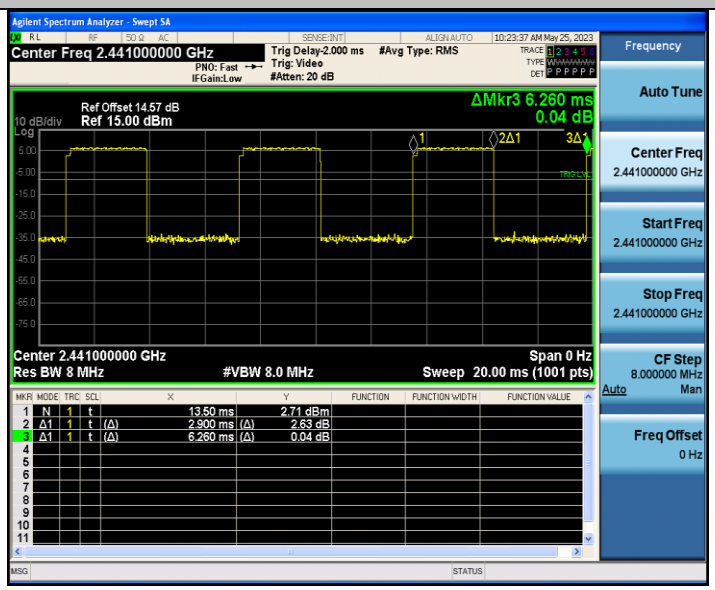
DH5_Ant1_2480



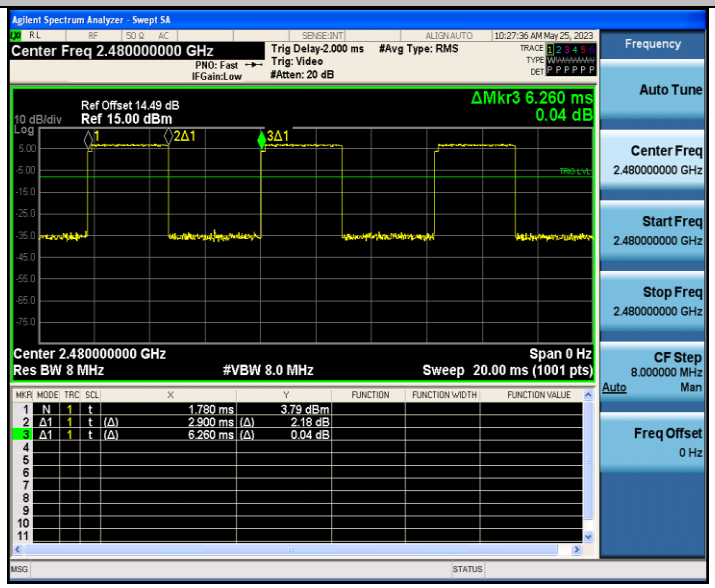
2DH5_Ant1_2402



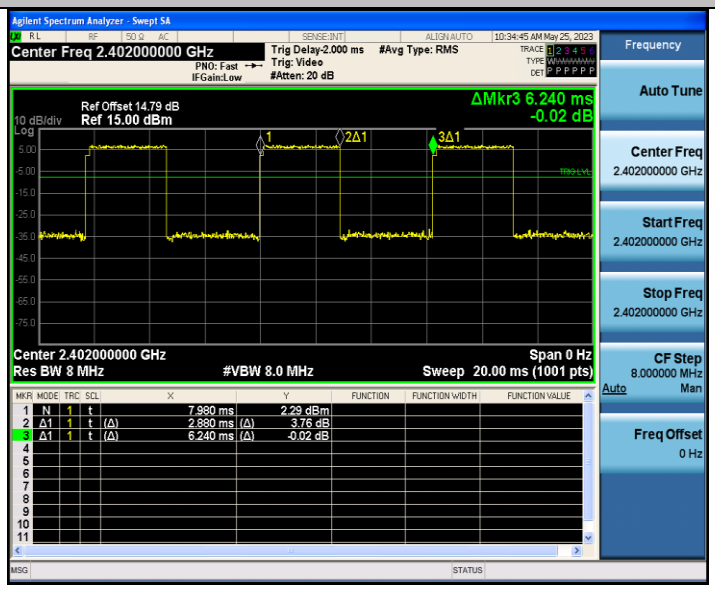
2DH5_Ant1_2441



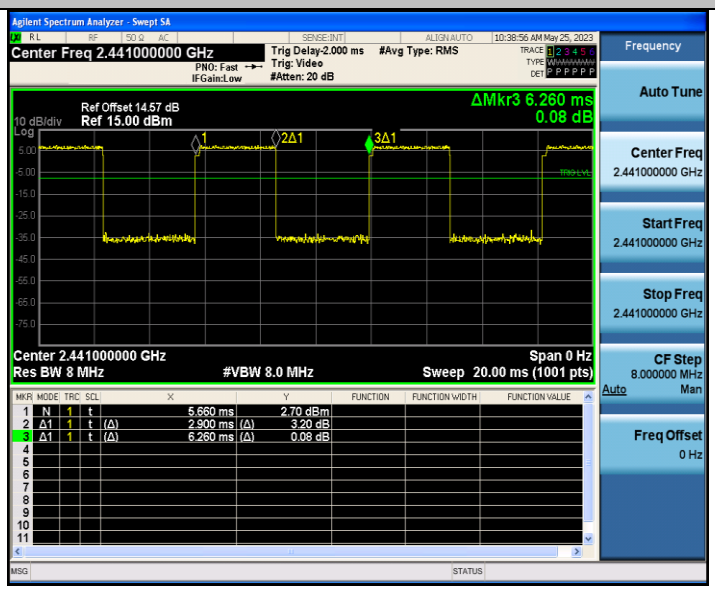
2DH5_Ant1_2480

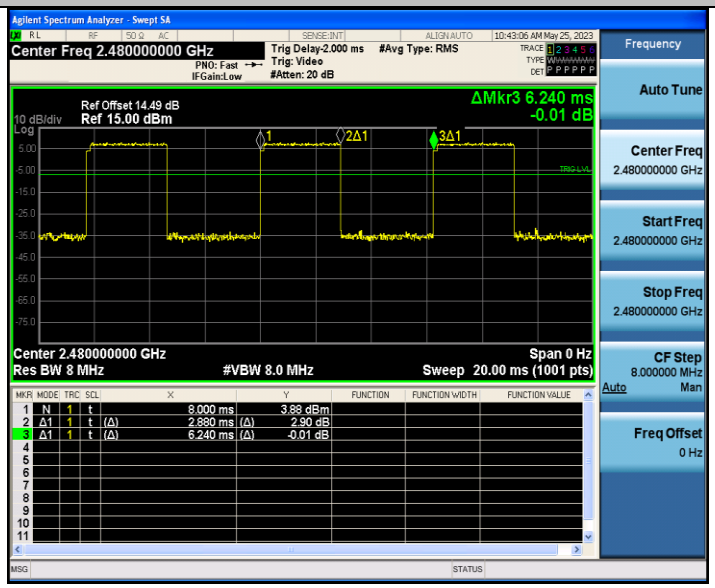


3DH5_Ant1_2402



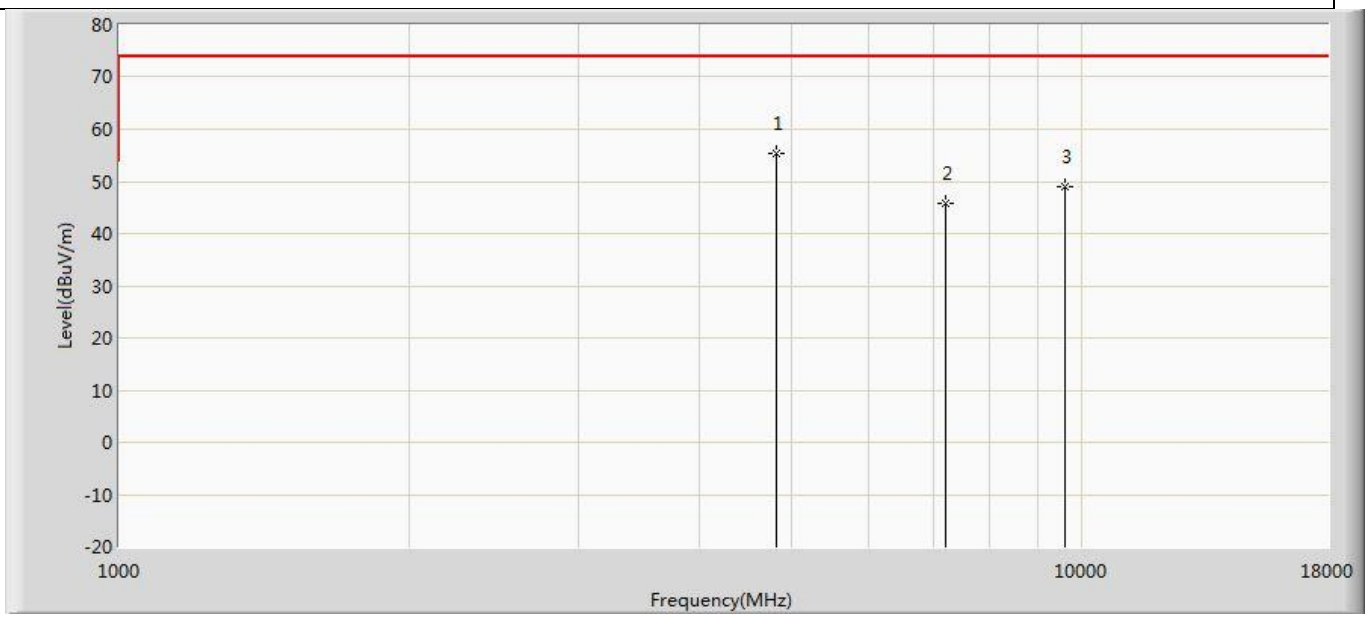
3DH5_Ant1_2441



3DH5_Ant1_2480


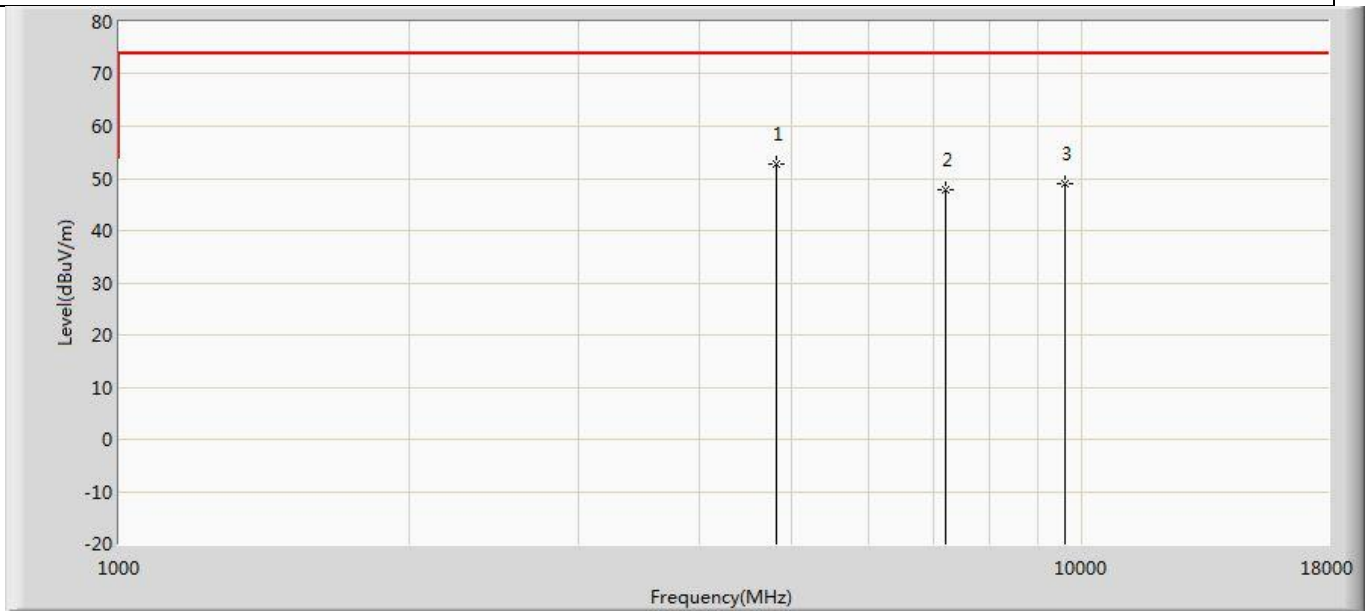
Appendix J: Emissions in Restricted Band

Profile: 2350171R	Page No.: 19
Engineer: Yuliu	
Site: AC5	Time: 2023/05/26 - 01:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Charge Base	Power: 120 Vac / 60 Hz
Note: Mode 1：Transmit at 2402MHz by DH5	



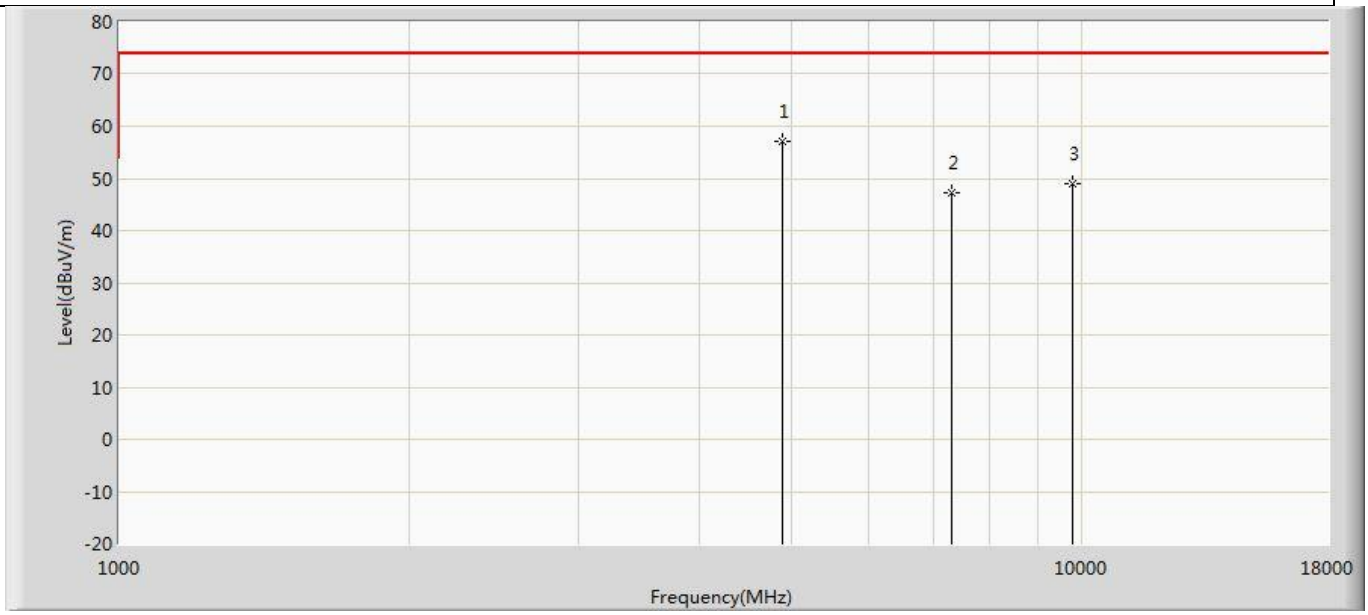
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4808.000	55.272	69.919	-18.728	74.000	-14.647	PK
2		7206.000	45.926	55.642	-28.074	74.000	-9.716	PK
3		9608.000	49.011	54.646	-24.989	74.000	-5.635	PK

Profile: 2350171R	Page No.: 20
Engineer: Yuliu	
Site: AC5	Time: 2023/05/26 - 01:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Charge Base	Power: 120 Vac / 60 Hz
Note: Mode 1：Transmit at 2402MHz by DH5	



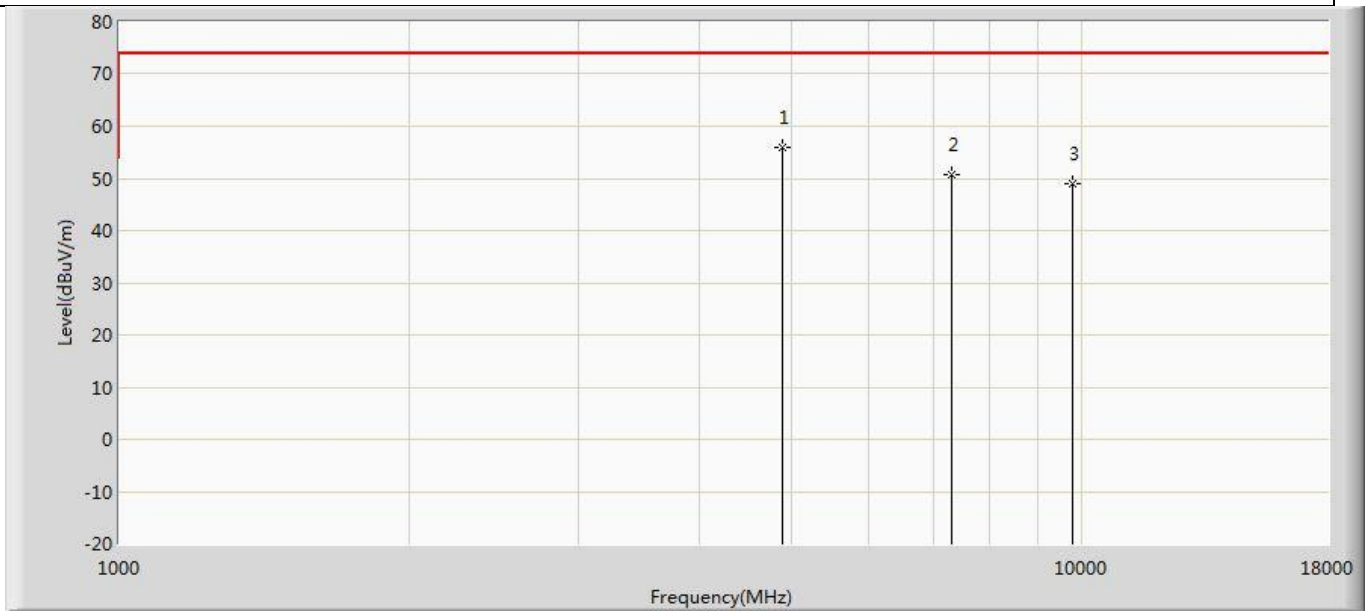
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4808.000	52.744	67.391	-21.256	74.000	-14.647	PK
2		7205.000	47.767	57.477	-26.233	74.000	-9.710	PK
3		9608.000	48.905	54.540	-25.095	74.000	-5.635	PK

Profile: 2350171R	Page No.: 21
Engineer: Yuliu	
Site: AC5	Time: 2023/05/26 - 01:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Charge Base	Power: 120 Vac / 60 Hz
Note: Mode 1：Transmit at 2441MHz by DH5	



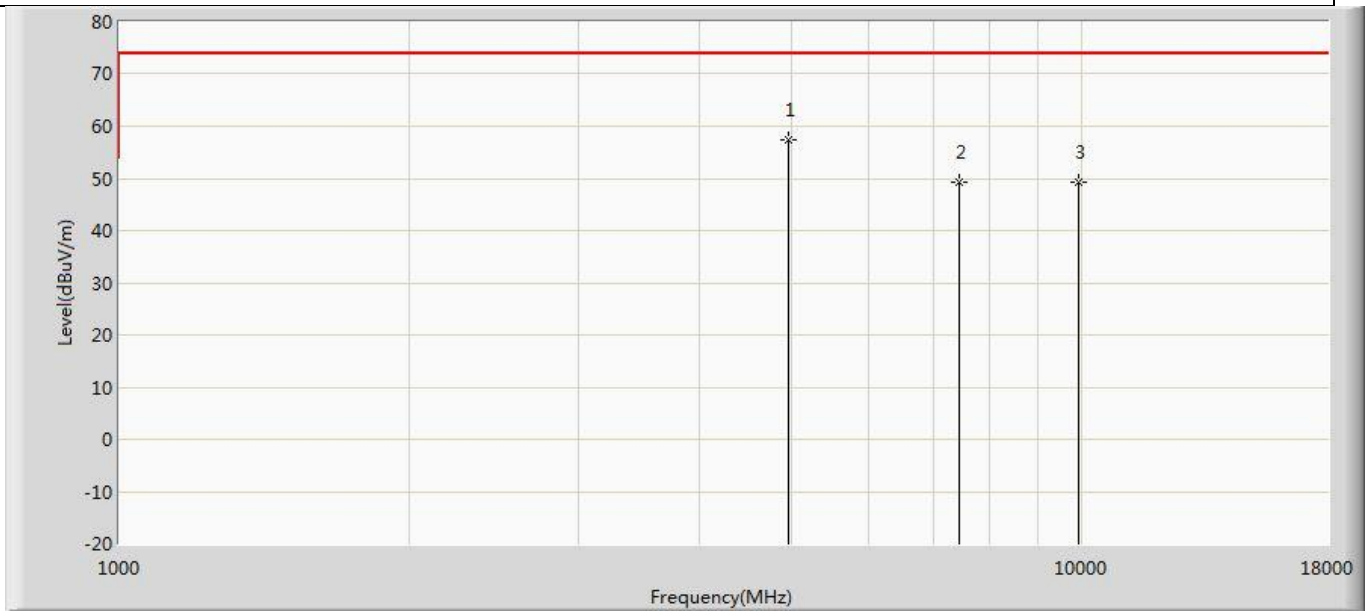
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4876.000	56.991	71.287	-17.009	74.000	-14.297	PK
2		7324.000	47.263	56.989	-26.737	74.000	-9.726	PK
3		9764.000	48.862	54.482	-25.138	74.000	-5.620	PK

Profile: 2350171R	Page No.: 22
Engineer: Yuliu	
Site: AC5	Time: 2023/05/26 - 01:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Charge Base	Power: 120 Vac / 60 Hz
Note: Mode 1：Transmit at 2441MHz by DH5	



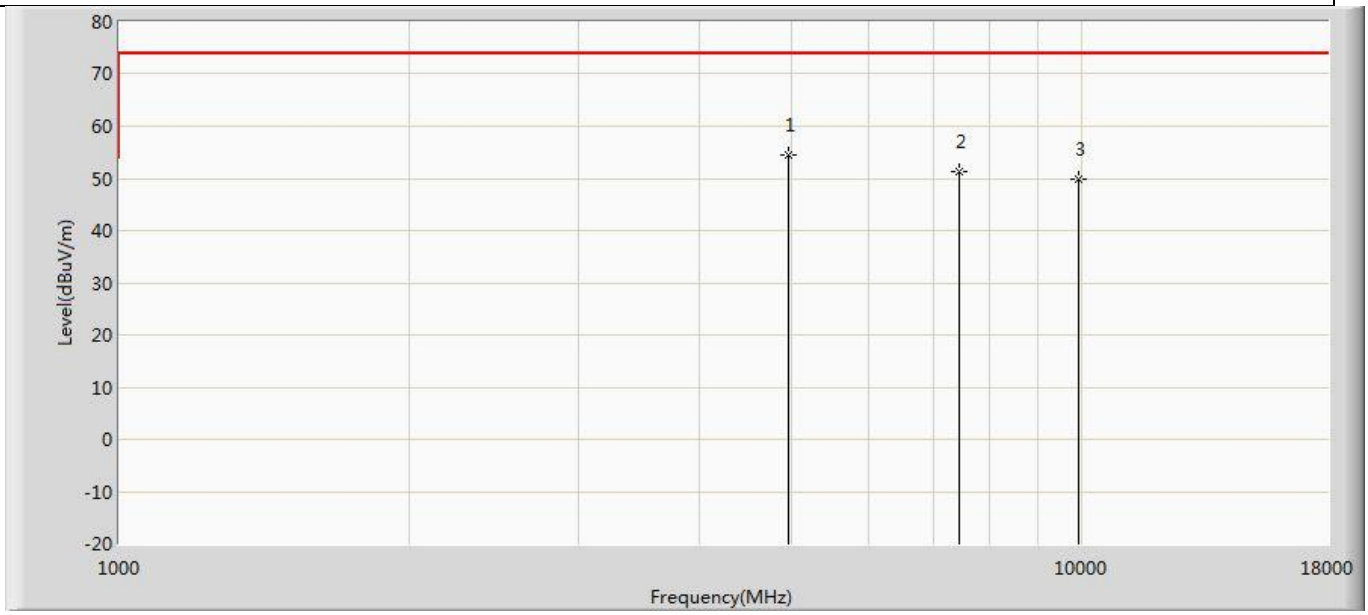
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4876.000	55.870	70.166	-18.130	74.000	-14.297	PK
2		7324.000	50.594	60.320	-23.406	74.000	-9.726	PK
3		9764.000	49.031	54.651	-24.969	74.000	-5.620	PK

Profile: 2350171R	Page No.: 23
Engineer: Yuliu	
Site: AC5	Time: 2023/05/26 - 01:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Charge Base	Power: 120 Vac / 60 Hz
Note: Mode 1：Transmit at 2480MHz by DH5	



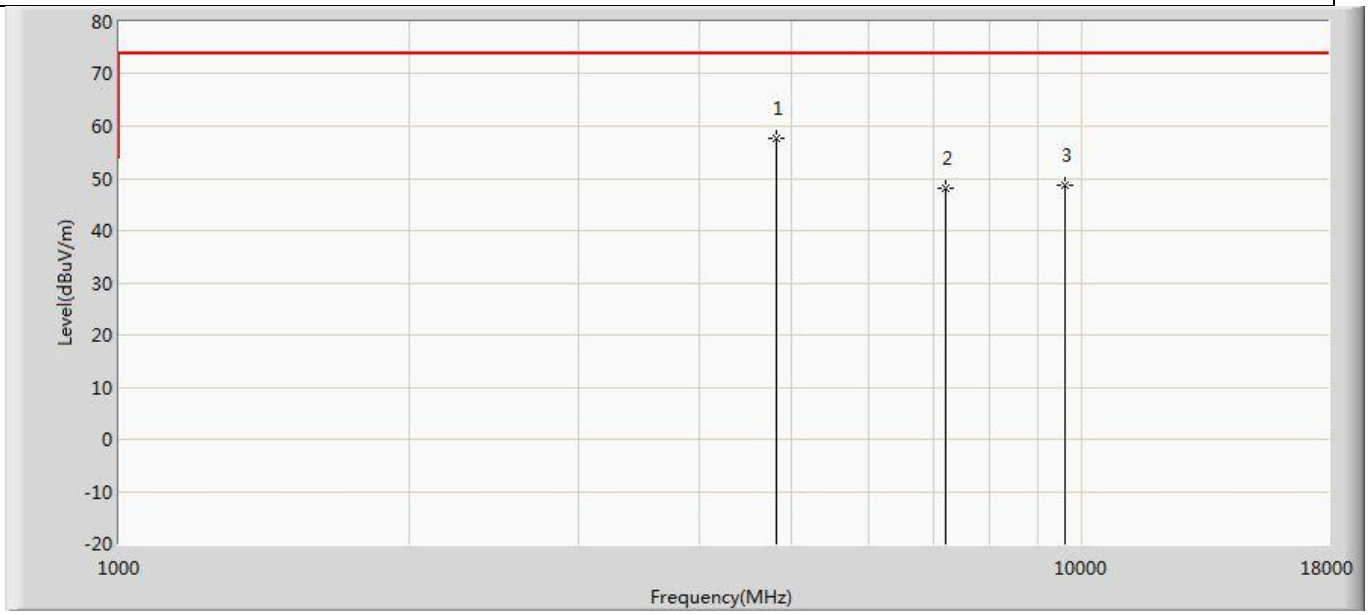
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4961.000	57.409	71.542	-16.591	74.000	-14.133	PK
2		7443.000	49.251	58.672	-24.749	74.000	-9.421	PK
3		9920.000	49.283	54.195	-24.717	74.000	-4.912	PK

Profile: 2350171R	Page No.: 24
Engineer: Yuliu	
Site: AC5	Time: 2023/05/26 - 01:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Charge Base	Power: 120 Vac / 60 Hz
Note: Mode 1：Transmit at 2480MHz by DH5	



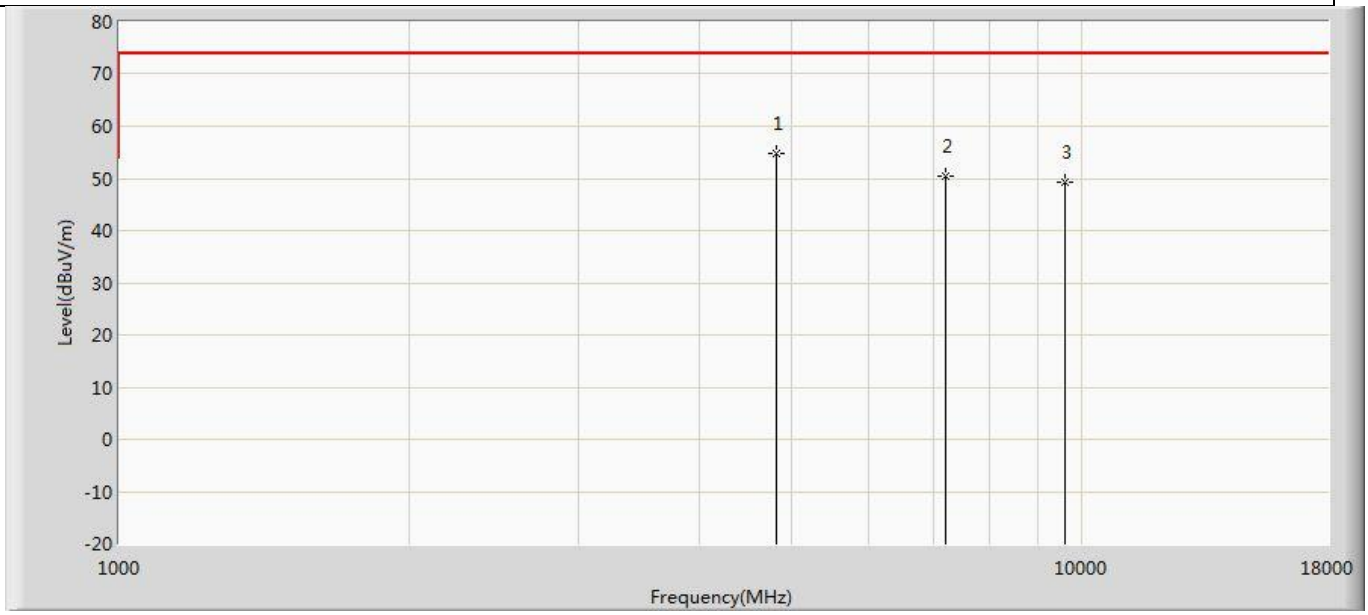
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4961.000	54.353	68.486	-19.647	74.000	-14.133	PK
2		7443.000	51.277	60.698	-22.723	74.000	-9.421	PK
3		9920.000	49.763	54.675	-24.237	74.000	-4.912	PK

Profile: 2350171R	Page No.: 25
Engineer: Yuliu	
Site: AC5	Time: 2023/05/26 - 01:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Charge Base	Power: 120 Vac / 60 Hz
Note: Mode 2：Transmit at 2402MHz by 2DH5	



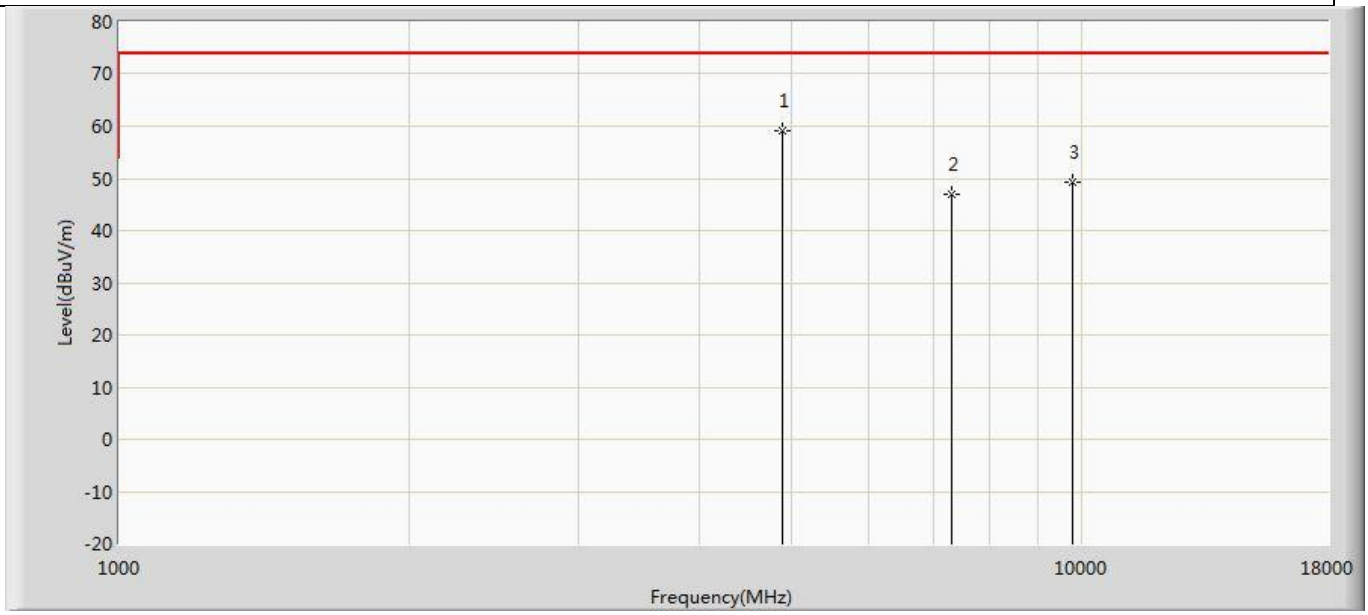
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4808.000	57.687	72.334	-16.313	74.000	-14.647	PK
2		7205.000	48.218	57.928	-25.782	74.000	-9.710	PK
3		9608.000	48.838	54.473	-25.162	74.000	-5.635	PK

Profile: 2350171R	Page No.: 26
Engineer: Yuliu	
Site: AC5	Time: 2023/05/26 - 01:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Charge Base	Power: 120 Vac / 60 Hz
Note: Mode 2：Transmit at 2402MHz by 2DH5	



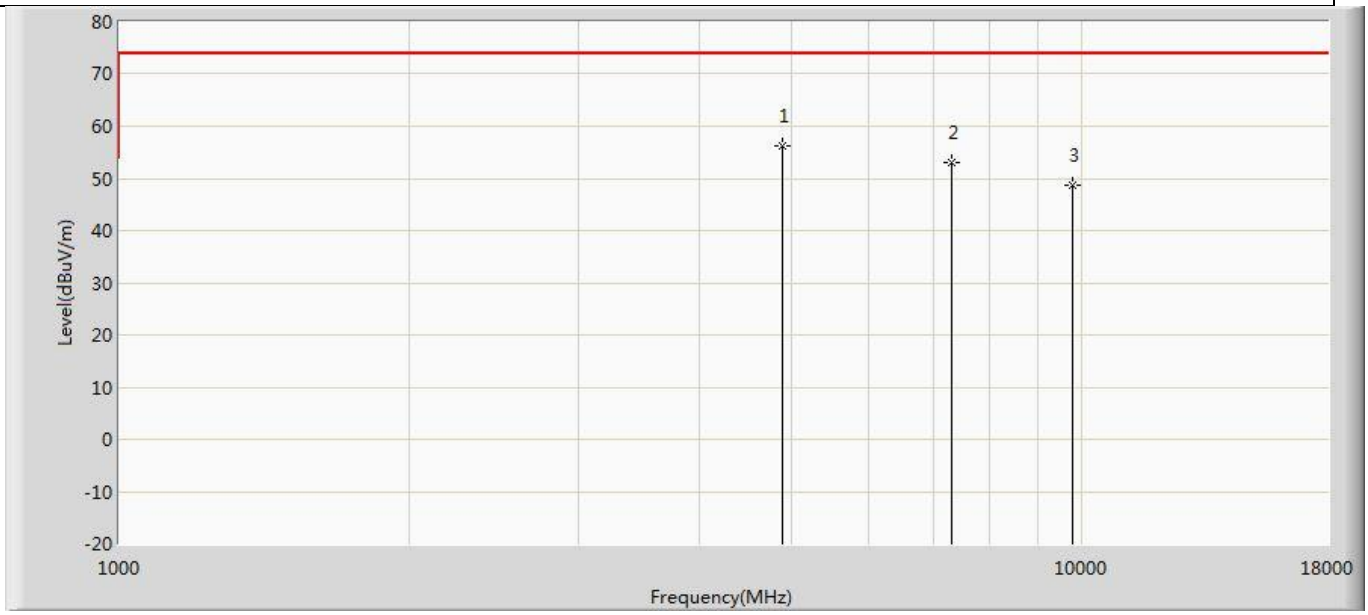
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4808.000	54.846	69.493	-19.154	74.000	-14.647	PK
2		7205.000	50.316	60.026	-23.684	74.000	-9.710	PK
3		9608.000	49.345	54.980	-24.655	74.000	-5.635	PK

Profile: 2350171R	Page No.: 27
Engineer: Yuliu	
Site: AC5	Time: 2023/05/26 - 01:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Charge Base	Power: 120 Vac / 60 Hz
Note: Mode 2：Transmit at 2441MHz by 2DH5	



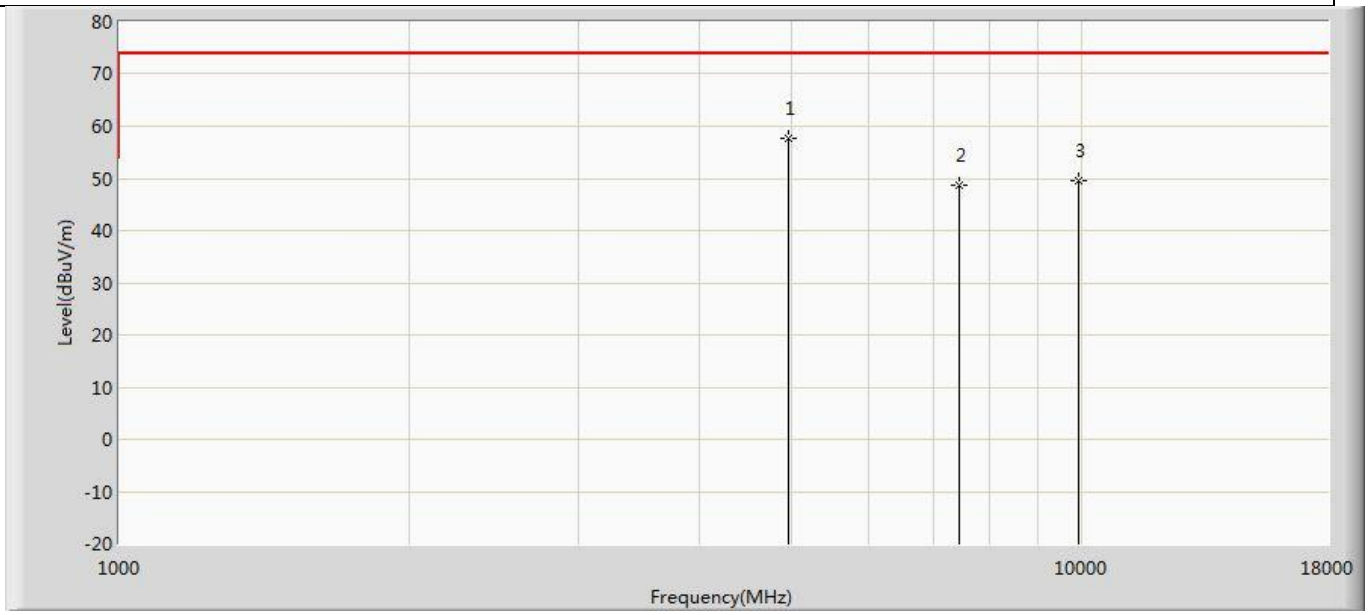
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4876.000	59.029	73.325	-14.971	74.000	-14.297	PK
2		7324.000	46.946	56.672	-27.054	74.000	-9.726	PK
3		9764.000	49.264	54.884	-24.736	74.000	-5.620	PK

Profile: 2350171R	Page No.: 28
Engineer: Yuliu	
Site: AC5	Time: 2023/05/26 - 01:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Charge Base	Power: 120 Vac / 60 Hz
Note: Mode 2：Transmit at 2441MHz by 2DH5	



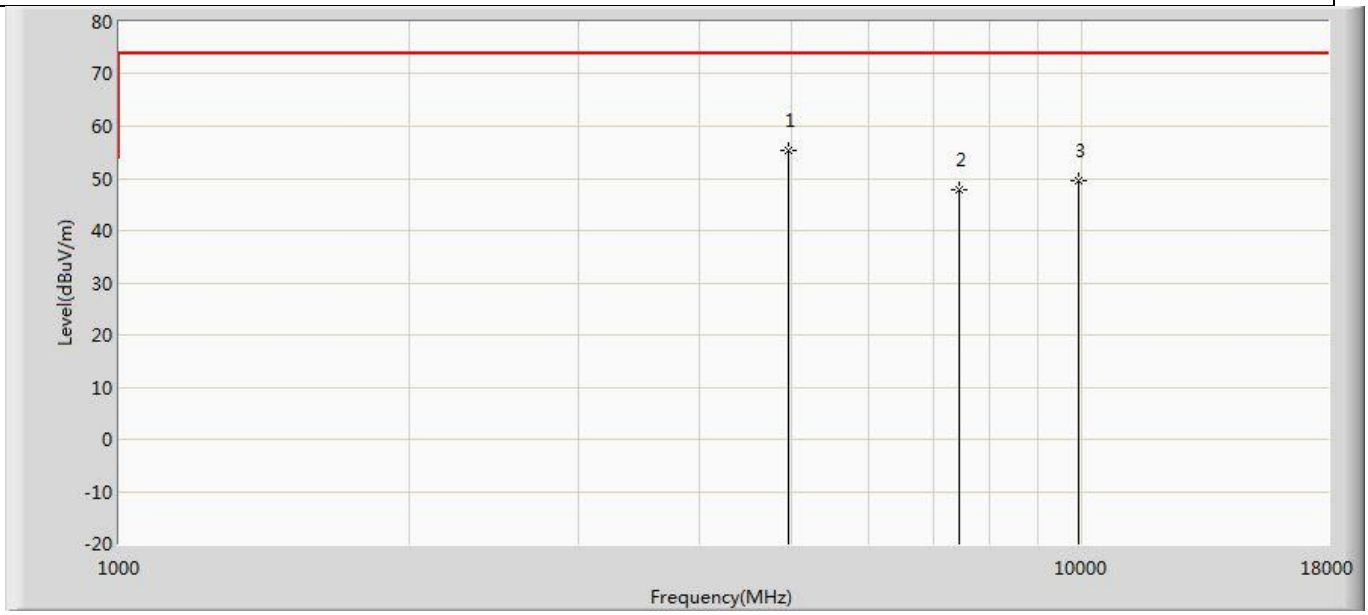
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4876.000	56.344	70.640	-17.656	74.000	-14.297	PK
2		7324.000	52.982	62.708	-21.018	74.000	-9.726	PK
3		9764.000	48.748	54.368	-25.252	74.000	-5.620	PK

Profile: 2350171R	Page No.: 29
Engineer: Yuliu	
Site: AC5	Time: 2023/05/26 - 01:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Charge Base	Power: 120 Vac / 60 Hz
Note: Mode 2：Transmit at 2480MHz by 2DH5	



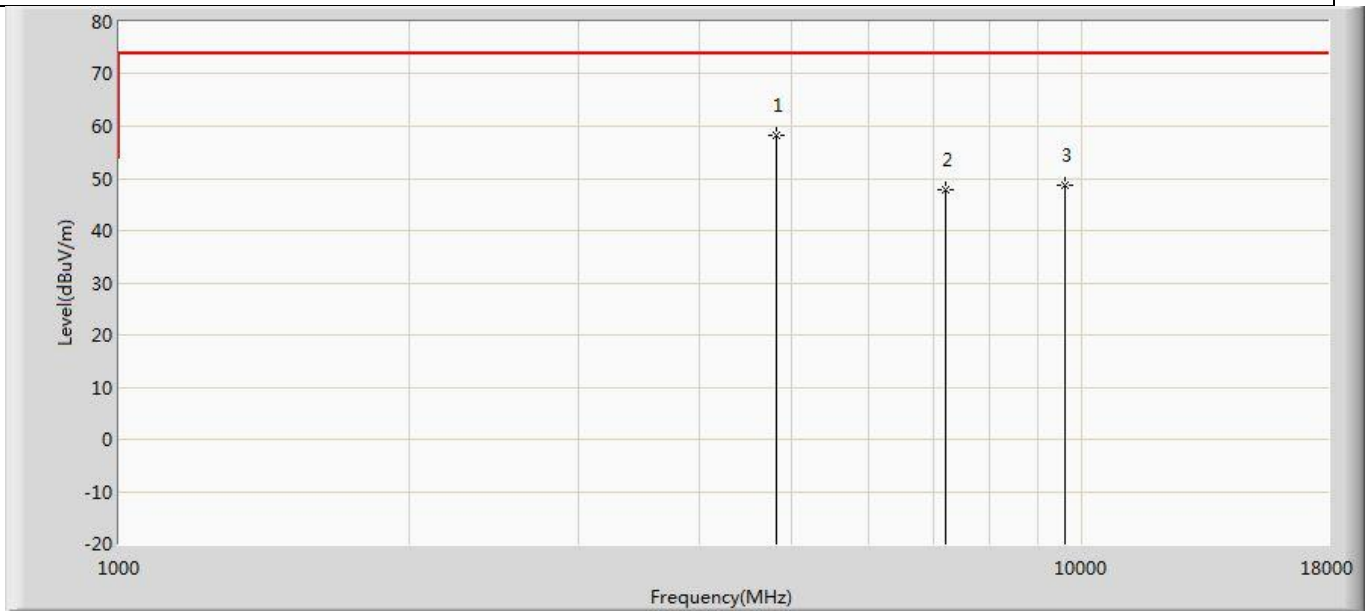
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4961.000	57.718	71.851	-16.282	74.000	-14.133	PK
2		7443.000	48.641	58.062	-25.359	74.000	-9.421	PK
3		9920.000	49.448	54.360	-24.552	74.000	-4.912	PK

Profile: 2350171R	Page No.: 30
Engineer: Yuliu	
Site: AC5	Time: 2023/05/26 - 01:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Charge Base	Power: 120 Vac / 60 Hz
Note: Mode 2：Transmit at 2480MHz by 2DH5	



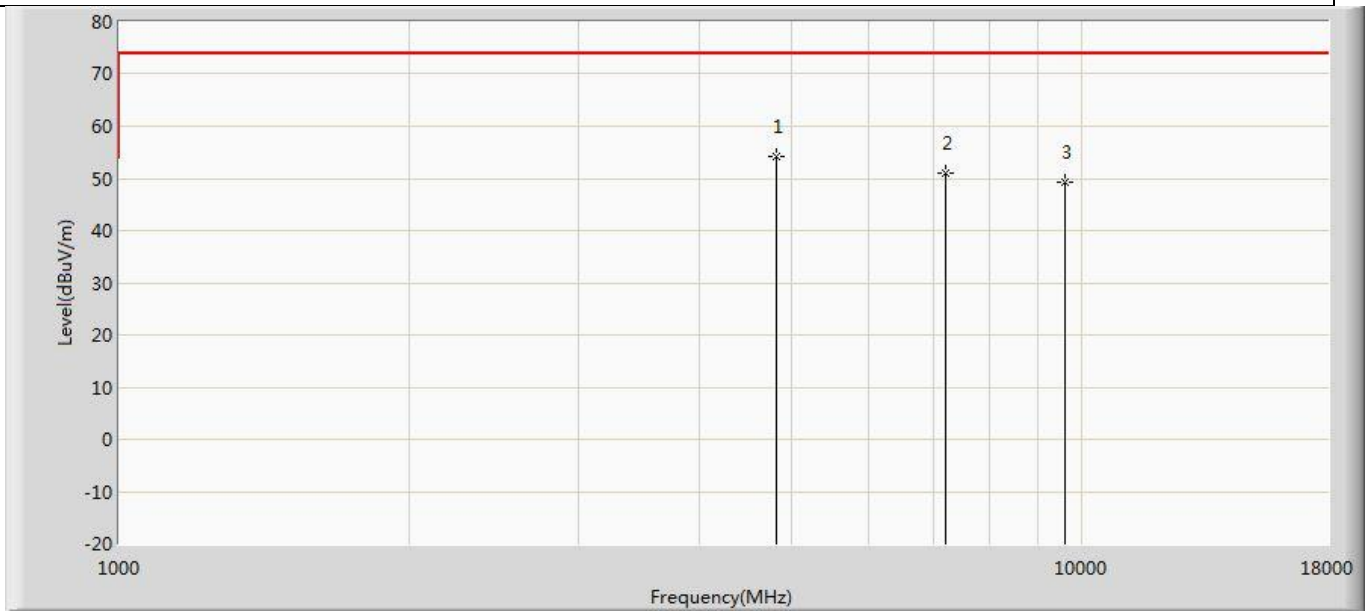
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4961.000	55.411	69.544	-18.589	74.000	-14.133	PK
2		7443.000	47.948	57.369	-26.052	74.000	-9.421	PK
3		9920.000	49.618	54.530	-24.382	74.000	-4.912	PK

Profile: 2350171R	Page No.: 31
Engineer: Yuliu	
Site: AC5	Time: 2023/05/26 - 01:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Charge Base	Power: 120 Vac / 60 Hz
Note: Mode 3：Transmit at 2402MHz by 3DH5	



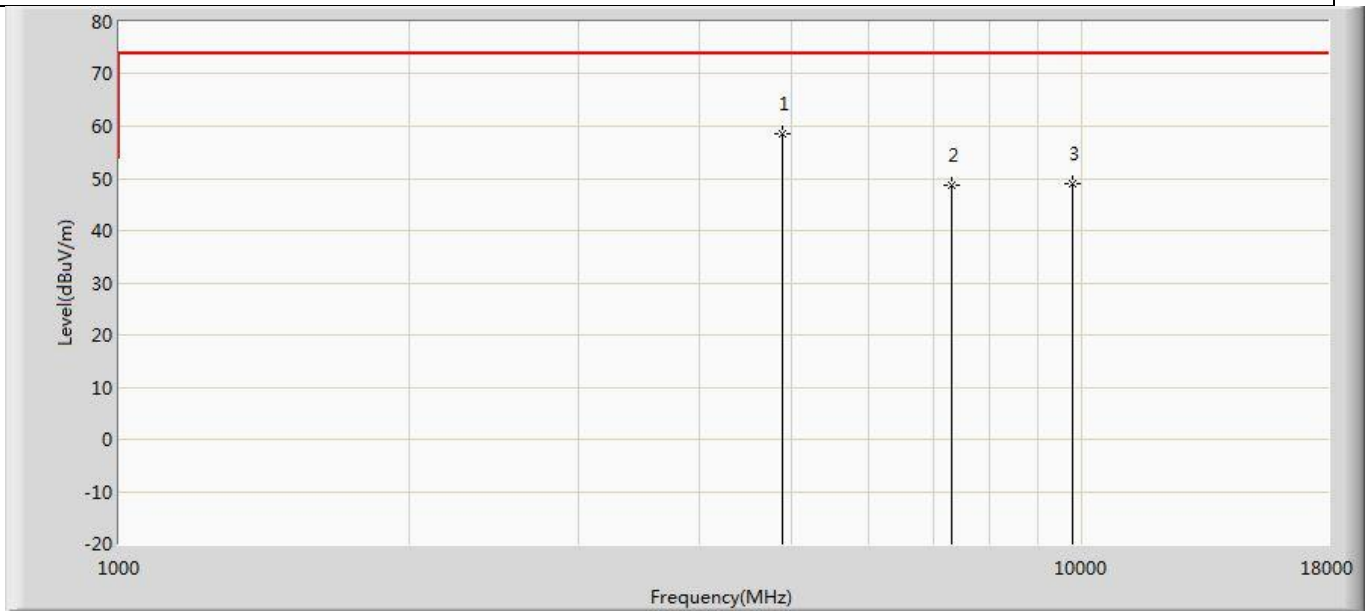
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4808.000	58.287	72.934	-15.713	74.000	-14.647	PK
2		7205.000	47.740	57.450	-26.260	74.000	-9.710	PK
3		9608.000	48.770	54.405	-25.230	74.000	-5.635	PK

Profile: 2350171R	Page No.: 32
Engineer: Yuliu	
Site: AC5	Time: 2023/05/26 - 01:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Charge Base	Power: 120 Vac / 60 Hz
Note: Mode 3：Transmit at 2402MHz by 3DH5	



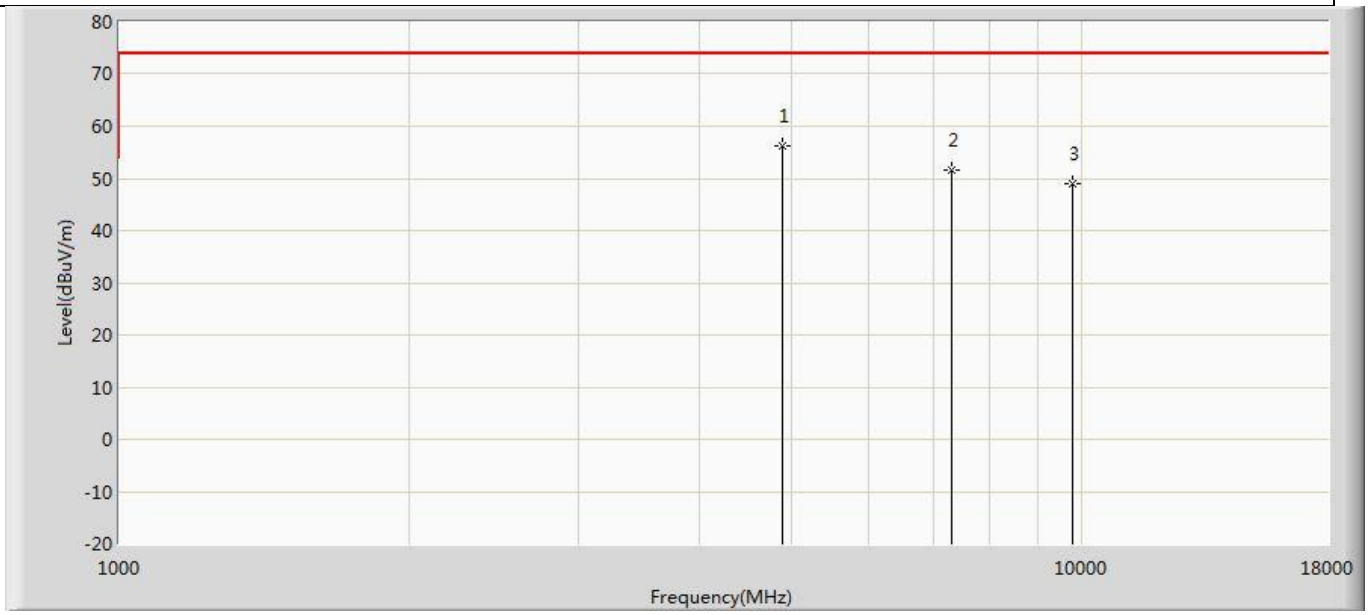
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4808.000	54.144	68.791	-19.856	74.000	-14.647	PK
2		7205.000	51.125	60.835	-22.875	74.000	-9.710	PK
3		9608.000	49.375	55.010	-24.625	74.000	-5.635	PK

Profile: 2350171R	Page No.: 33
Engineer: Yuliu	
Site: AC5	Time: 2023/05/26 - 01:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Charge Base	Power: 120 Vac / 60 Hz
Note: Mode 3：Transmit at 2441MHz by 3DH5	



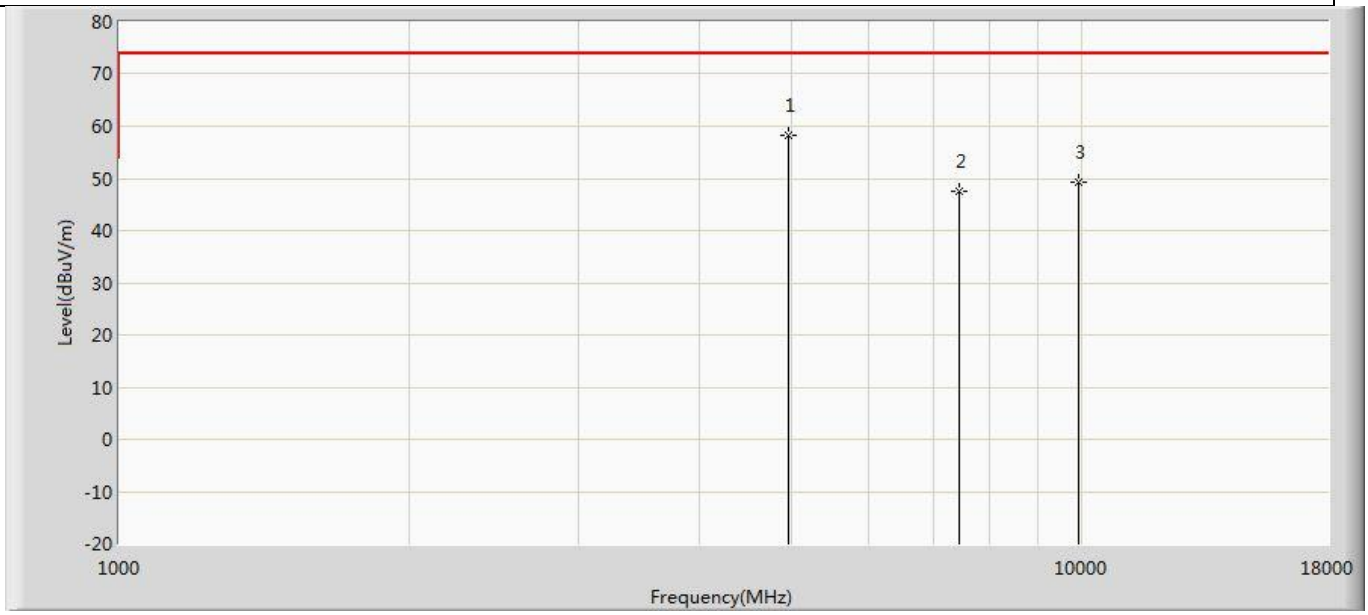
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4876.000	58.580	72.876	-15.420	74.000	-14.297	PK
2		7324.000	48.613	58.339	-25.387	74.000	-9.726	PK
3		9764.000	48.885	54.505	-25.115	74.000	-5.620	PK

Profile: 2350171R	Page No.: 34
Engineer: Yuliu	
Site: AC5	Time: 2023/05/26 - 01:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Charge Base	Power: 120 Vac / 60 Hz
Note: Mode 3：Transmit at 2441MHz by 3DH5	



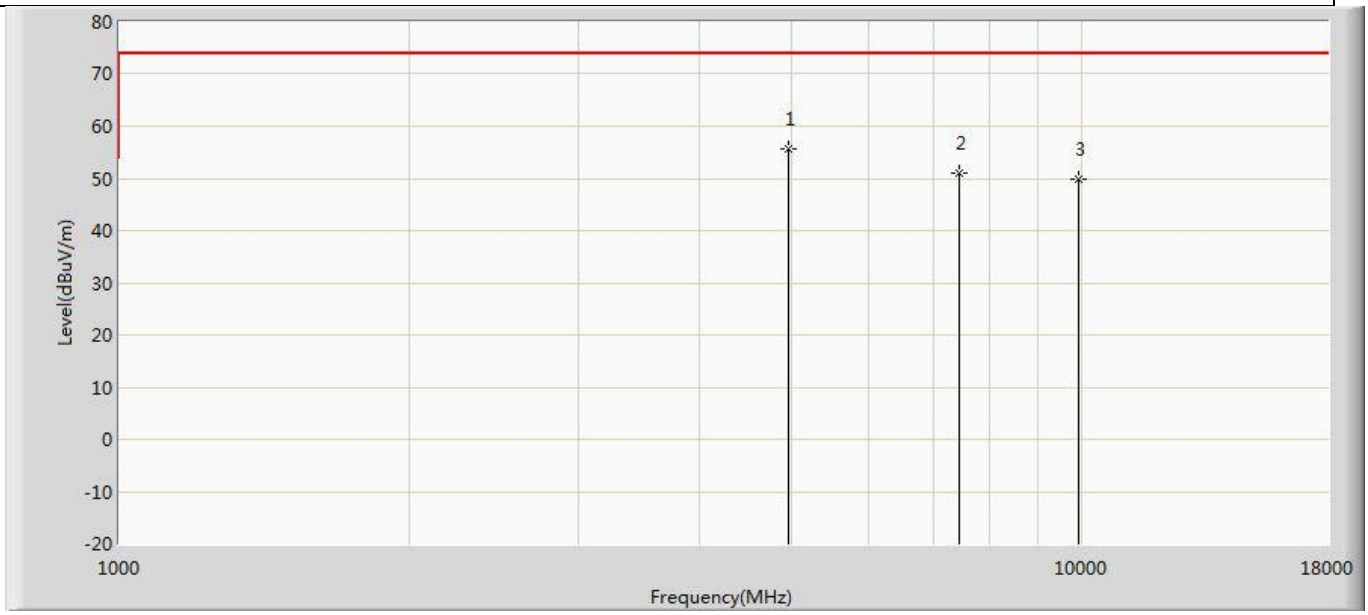
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4876.000	56.167	70.463	-17.833	74.000	-14.297	PK
2		7324.000	51.705	61.431	-22.295	74.000	-9.726	PK
3		9764.000	48.847	54.467	-25.153	74.000	-5.620	PK

Profile: 2350171R	Page No.: 35
Engineer: Yuliu	
Site: AC5	Time: 2023/05/26 - 01:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Charge Base	Power: 120 Vac / 60 Hz
Note: Mode 3：Transmit at 2480MHz by 3DH5	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4961.000	58.165	72.298	-15.835	74.000	-14.133	PK
2		7443.000	47.630	57.051	-26.370	74.000	-9.421	PK
3		9920.000	49.243	54.155	-24.757	74.000	-4.912	PK

Profile: 2350171R	Page No.: 36
Engineer: Yuliu	
Site: AC5	Time: 2023/05/26 - 01:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Charge Base	Power: 120 Vac / 60 Hz
Note: Mode 3：Transmit at 2480MHz by 3DH5	

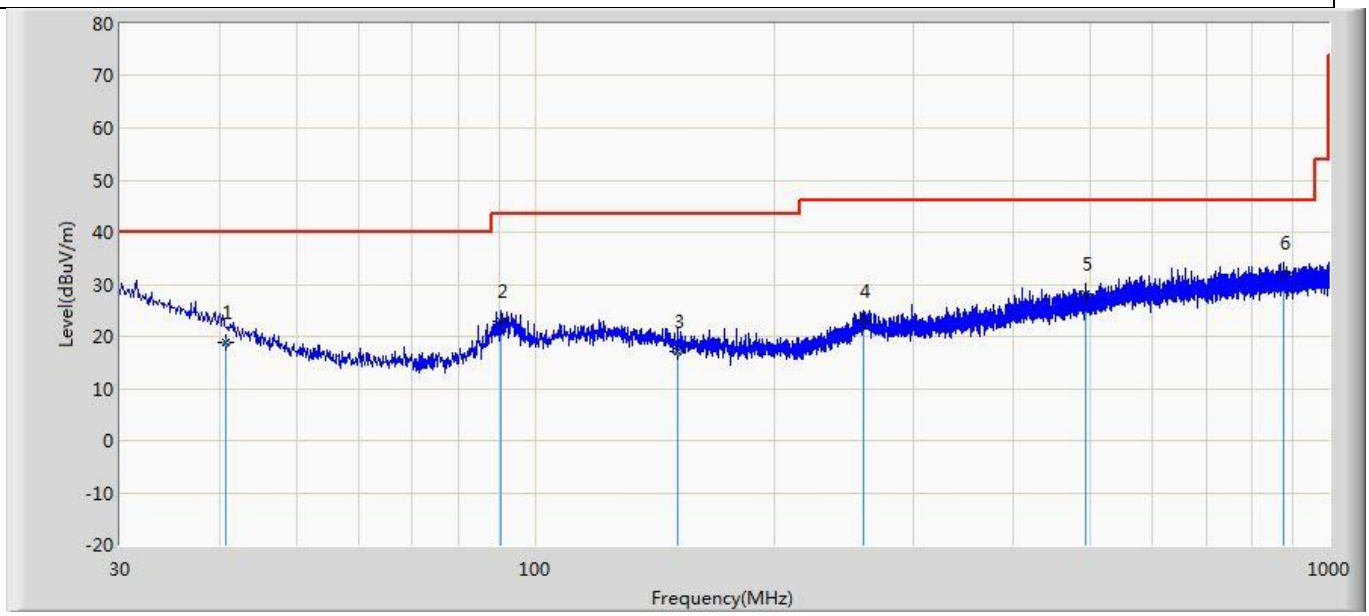


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4961.000	55.667	69.800	-18.333	74.000	-14.133	PK
2		7443.000	50.986	60.407	-23.014	74.000	-9.421	PK
3		9920.000	49.832	54.744	-24.168	74.000	-4.912	PK

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. According to FCC15.35(c), a duty cycle correction factor is applied here. For HFSS mode, maximum duty cycle will be 1.27%, which is 37.9dB. Hence this margn could cover the highest spurious above.

The worst case of Radiated Emission below 1GHz :

Profile: 2350171R	Page No.: 199
Engineer: Yuliu	
Site: AC3	Time: 2023/05/29 - 22:13
Limit: FCC_Part 15.209_RE (3m)	Margin: 0
Probe: AC3_3M(30-1000M)-0050-2933	Polarity: Horizontal
EUT: Charge Base	Power: 120 Vac / 60 Hz
Note: Mode 1：Transmit at 2402MHz by DH5	

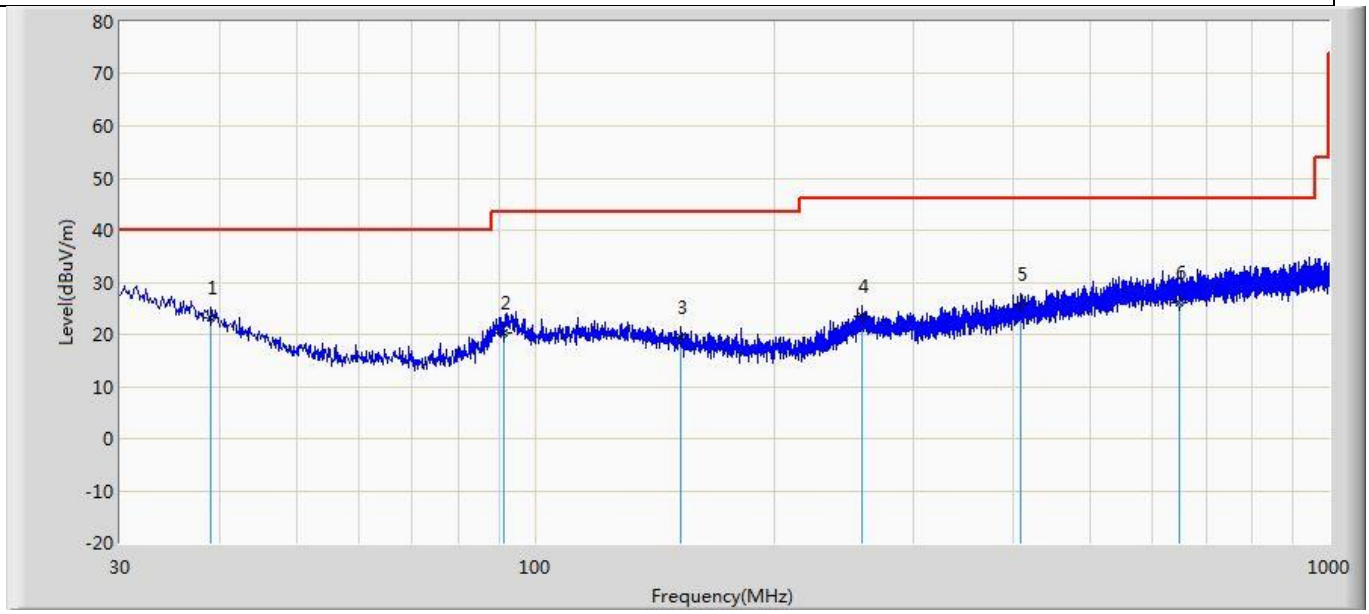


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		40.791	18.870	-0.979	-21.130	40.000	19.849	QP
2		90.625	22.835	6.582	-20.665	43.500	16.253	QP
3		151.008	17.168	-0.237	-26.332	43.500	17.405	QP
4		259.769	22.897	1.782	-23.103	46.000	21.115	QP
5		492.811	28.117	2.731	-17.883	46.000	25.385	QP
6	*	875.719	32.280	3.109	-13.720	46.000	29.171	QP

Note:

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

Profile: 2350171R	Page No.: 200
Engineer: Yuliu	
Site: AC3	Time: 2023/05/29 - 22:16
Limit: FCC_Part 15.209_RE (3m)	Margin: 0
Probe: AC3_3M(30-1000M)-0050-2933	Polarity: Vertical
EUT: Charge Base	Power: 120 Vac / 60 Hz
Note: Mode 1：Transmit at 2402MHz by DH5	

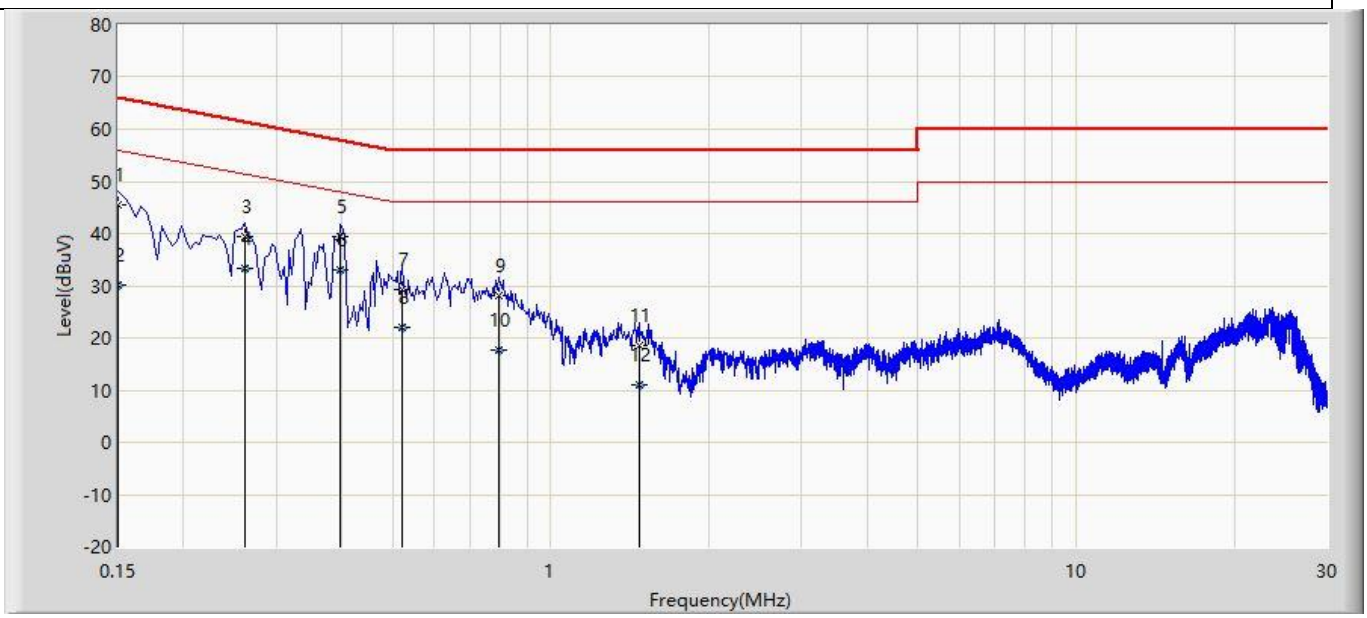


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	39.094	23.114	1.965	-16.886	40.000	21.149	QP
2		91.231	20.297	3.901	-23.203	43.500	16.396	QP
3		152.705	19.556	2.175	-23.944	43.500	17.381	QP
4		257.829	23.475	2.486	-22.525	46.000	20.989	QP
5		408.785	25.747	1.586	-20.253	46.000	24.161	QP
6		646.556	26.038	-1.426	-19.962	46.000	27.464	QP

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

Appendix J: AC Power Line Conducted Emission

Profile: 2350171R	Page No.: 5
Engineer: Yuliu	
Site: TR1	Time: 2023/05/28 - 15:10
Limit: FCC_Part 15.207	Margin: 0
Probe: ENV216_101190(0.009-30MHz)	Polarity: Line
EUT: Charge Base	Power: 120 Vac / 60 Hz
Note: Mode 1：Transmit at 2402MHz by DH5	



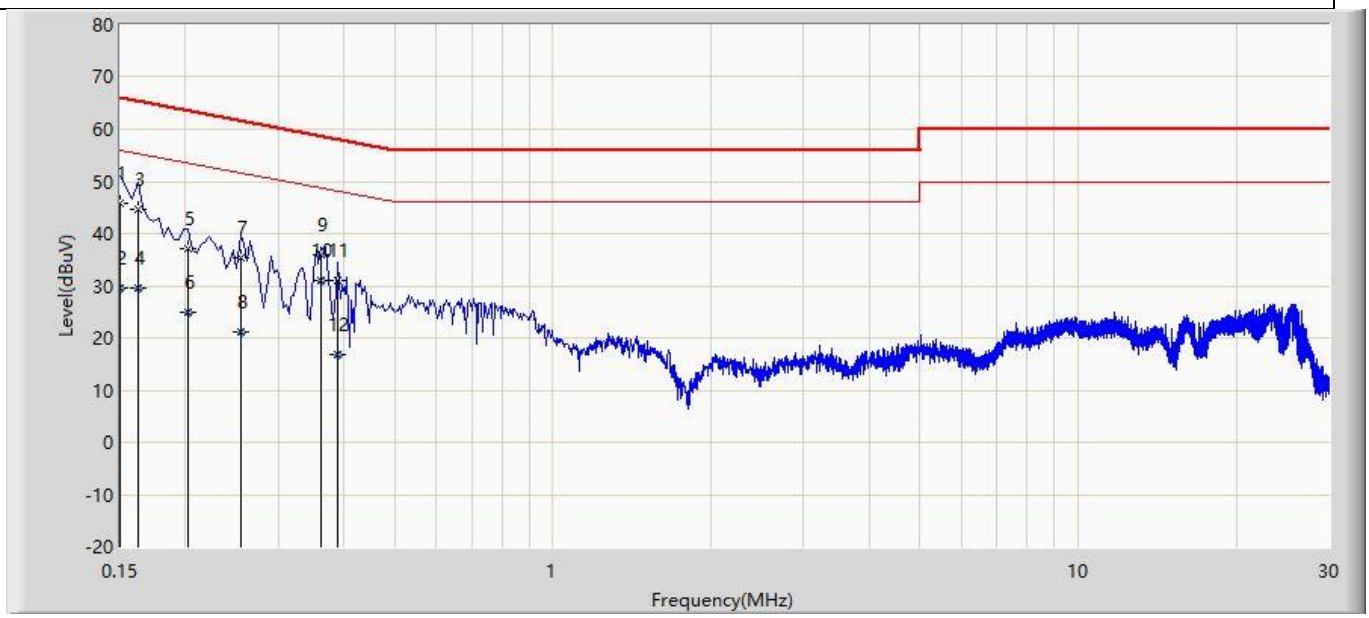
No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1		0.150	45.419	35.842	-20.581	66.000	9.549	0.028	0.000	QP
2		0.150	30.162	20.585	-25.838	56.000	9.549	0.028	0.000	AV
3		0.262	39.407	29.811	-21.961	61.368	9.564	0.032	0.000	QP
4		0.262	33.256	23.660	-18.111	51.368	9.564	0.032	0.000	AV
5		0.398	39.452	29.837	-18.443	57.895	9.573	0.042	0.000	QP
6	*	0.398	33.157	23.542	-14.738	47.895	9.573	0.042	0.000	AV
7		0.522	29.173	19.548	-26.827	56.000	9.581	0.045	0.000	QP
8		0.522	22.074	12.448	-23.926	46.000	9.581	0.045	0.000	AV
9		0.798	28.186	18.542	-27.814	56.000	9.590	0.054	0.000	QP
10		0.798	17.649	8.006	-28.351	46.000	9.590	0.054	0.000	AV
11		1.470	18.652	8.989	-37.348	56.000	9.590	0.073	0.000	QP
12		1.470	11.127	1.464	-34.873	46.000	9.590	0.073	0.000	AV

Note:

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

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

Profile: 2350171R	Page No.: 6
Engineer: Yuliu	
Site: TR1	Time: 2023/05/28 - 15:13
Limit: FCC_Part 15.207	Margin: 0
Probe: ENV216_101190(0.009-30MHz)	Polarity: Neutral
EUT: Charge Base	Power: 120 Vac / 60 Hz
Note: Mode 1：Transmit at 2402MHz by DH5	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1		0.150	45.727	36.161	-20.273	66.000	9.539	0.028	0.000	QP
2		0.150	29.550	19.983	-26.450	56.000	9.539	0.028	0.000	AV
3		0.162	44.499	34.928	-20.862	65.361	9.543	0.029	0.000	QP
4		0.162	29.592	20.021	-25.768	55.361	9.543	0.029	0.000	AV
5		0.202	37.040	27.463	-26.488	63.528	9.550	0.027	0.000	QP
6		0.202	24.875	15.298	-28.653	53.528	9.550	0.027	0.000	AV
7		0.254	35.243	25.656	-26.382	61.625	9.556	0.032	0.000	QP
8		0.254	21.104	11.516	-30.522	51.625	9.556	0.032	0.000	AV
9		0.362	35.979	26.386	-22.704	58.682	9.566	0.026	0.000	QP
10	*	0.362	30.880	21.287	-17.803	48.682	9.566	0.026	0.000	AV
11		0.390	31.000	21.391	-27.063	58.064	9.569	0.040	0.000	QP
12		0.390	16.831	7.222	-31.233	48.064	9.569	0.040	0.000	AV

Note:

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

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

The End