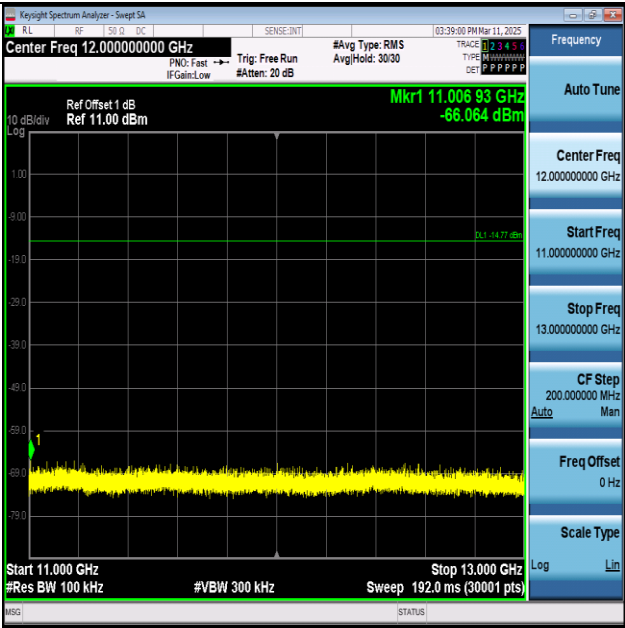
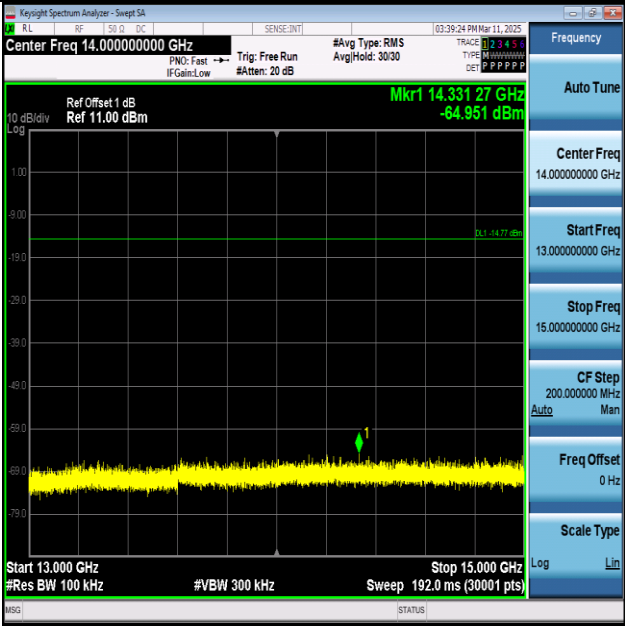
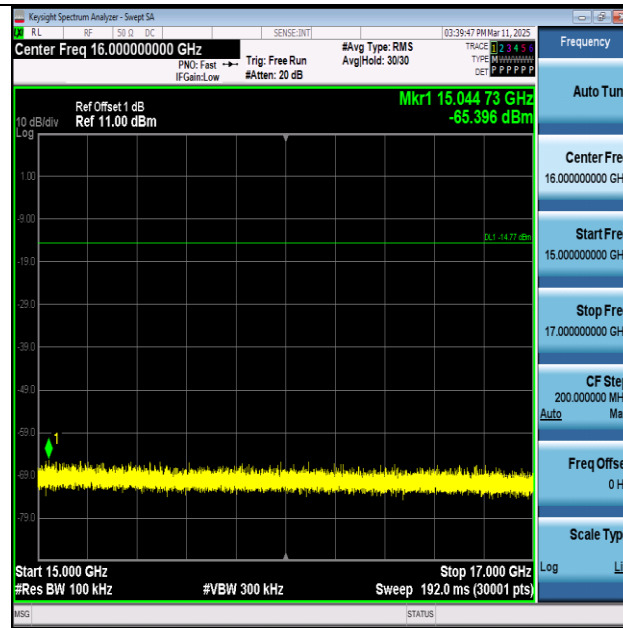




DH5-Ant1-2480-11000~13000-PASS



DH5-Ant1-2480-13000~15000-PASS



DH5-Ant1-2480-15000~17000-PASS



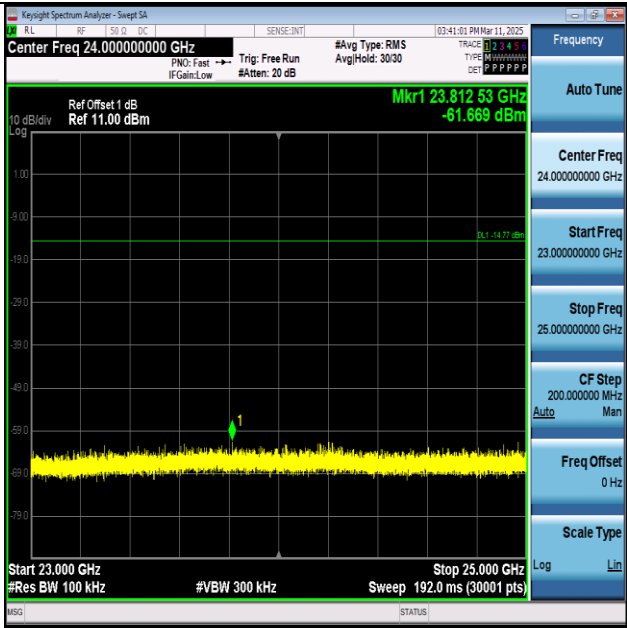
DH5-Ant1-2480-17000~19000-PASS



DH5-Ant1-2480-19000~21000-PASS



DH5-Ant1-2480-21000~23000-PASS

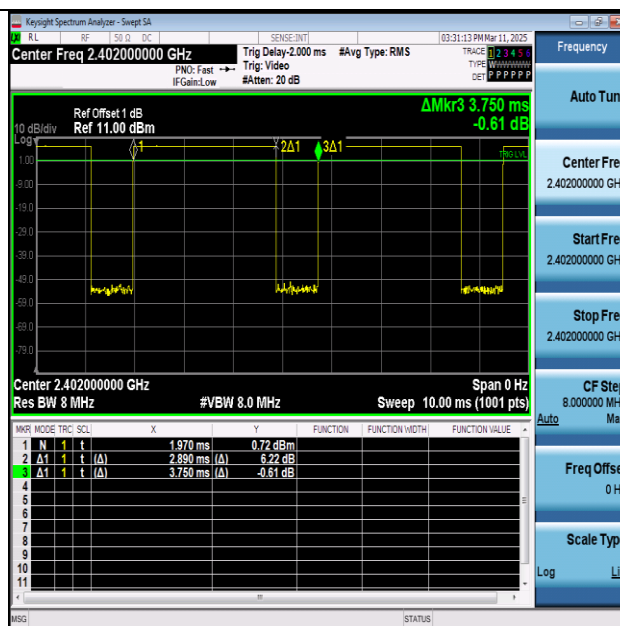


DH5-Ant1-2480-23000~25000-PASS

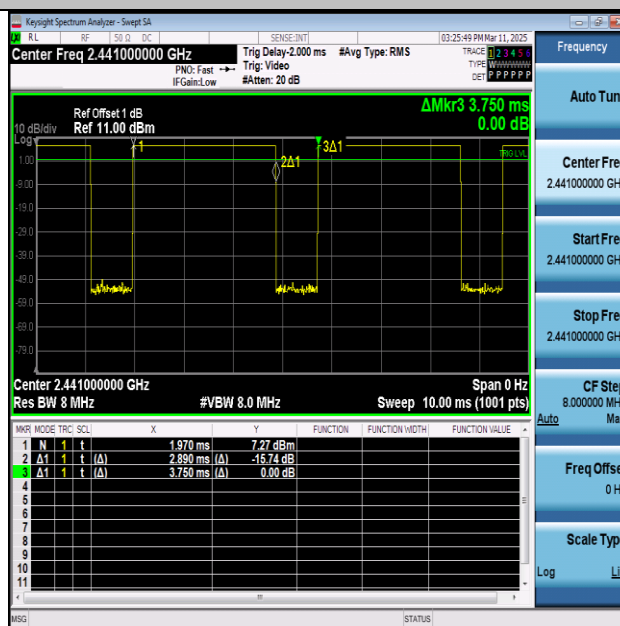
Appendix I: Duty Cycle

TestMode	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	2402	2.89	3.75	77.07	1.13
DH5	2441	2.89	3.75	77.07	1.13
DH5	2480	2.89	3.75	77.07	1.13

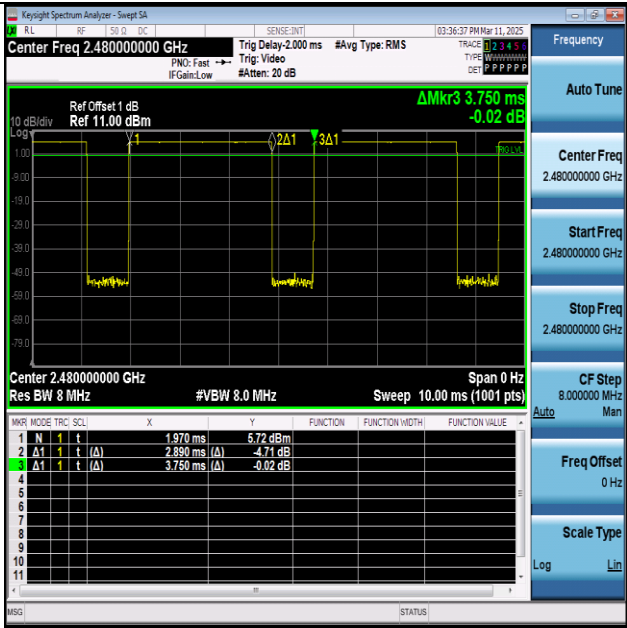
Test Graphs



NTNV-DH5-Ant1-2402



NTNV-DH5-Ant1-2441



NTNV-DH5-Ant1-2480

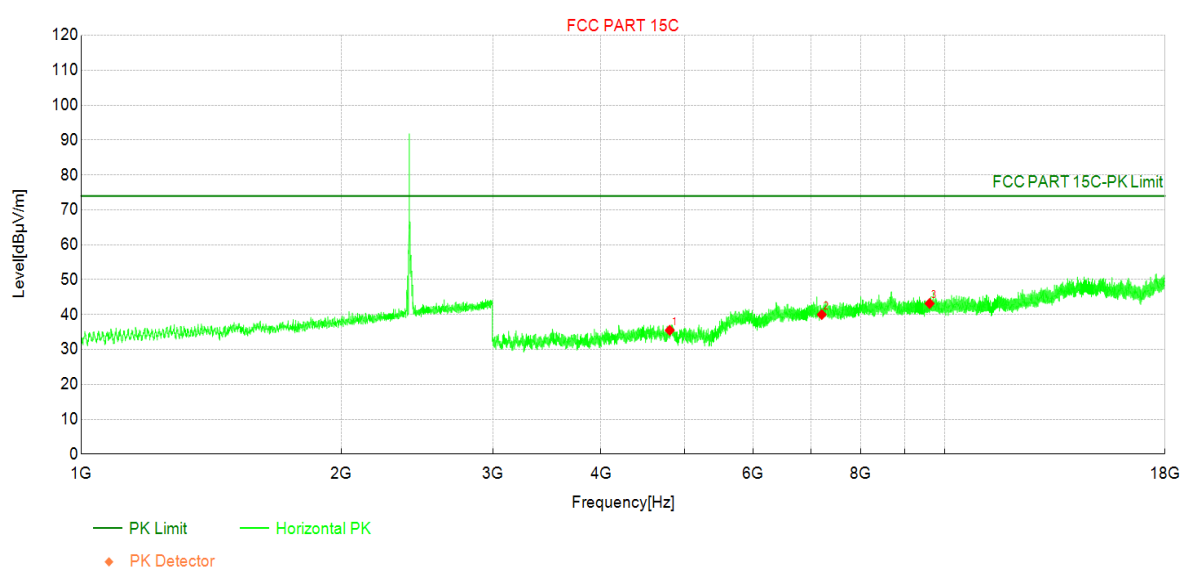
Appendix J: Emissions in Restricted Bands

Test Report

Project Information

Profile:	2520983R	EUT:	Smart Controller
Mode:	Mode1:Transmit at 2402MHz by DH5	Volta	120 Vac / 60 Hz
Environment:	Temp: 25°C ; Humi:60%	Engi	Reyn Chen
Test Standard:	FCC PART 15C		

Test Graph



Suspected Data List

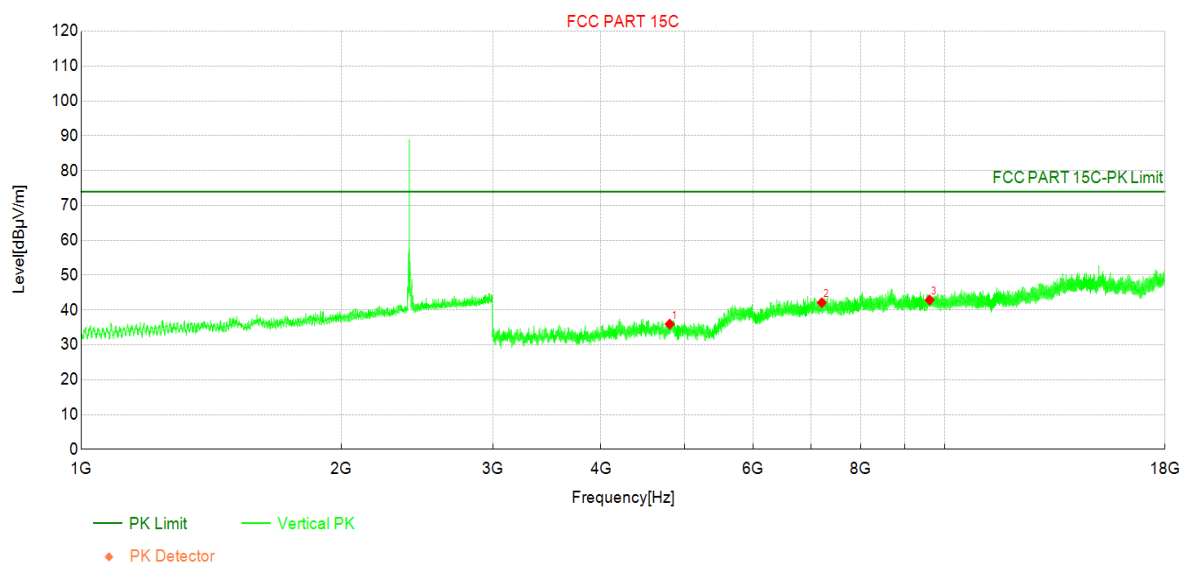
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4804.00	41.51	35.48	-6.03	74.00	38.52	PK	Horizo	PASS
	4804.00	-	10.72	-	54.00	43.28	AV	Horizo	PASS
2	7206.00	37.02	39.99	2.97	74.00	34.01	PK	Horizo	PASS
	7206.00	-	15.23	-	54.00	38.77	AV	Horizo	PASS
3	9608.00	37.23	43.17	5.94	74.00	30.83	PK	Horizo	PASS
	9608.00	-	18.41	-	54.00	35.59	AV	Horizo	PASS

Test Report

Project Information

Profile:	2520983R	EUT:	Smart Controller
Mode:	Mode1:Transmit at 2402MHz by DH5	Volta	120 Vac / 60 Hz
Environment:	Temp: 25°C ; Humi:60%	Engi	Reyn Chen
Test Standard:	FCC PART 15C		

Test Graph



Suspected Data List

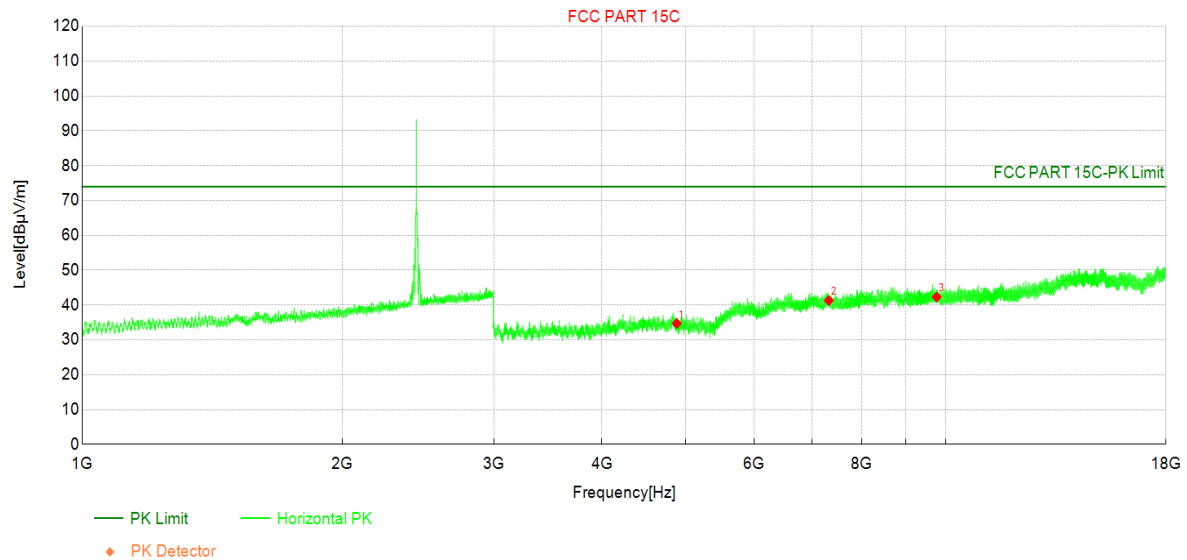
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4804.00	41.98	35.95	-6.03	74.00	38.05	PK	Vertic	PASS
	4804.00	-	11.19	-	54.00	42.81	AV	Vertic	PASS
2	7206.00	39.13	42.10	2.97	74.00	31.90	PK	Vertic	PASS
	7206.00	-	17.34	-	54.00	36.66	AV	Vertic	PASS
3	9608.00	36.94	42.88	5.94	74.00	31.12	PK	Vertic	PASS
	9608.00	-	18.12	-	54.00	35.88	AV	Vertic	PASS

Test Report

Project Information

Profile:	2520983R	EUT:	Smart Controller
Mode:	Mode1:Transmit at 2441MHz by DH5	Volta	120 Vac / 60 Hz
Environment:	Temp: 25°C ; Humi:60%	Engi	Reyn Chen
Test Standard:	FCC PART 15C		

Test Graph



Suspected Data List

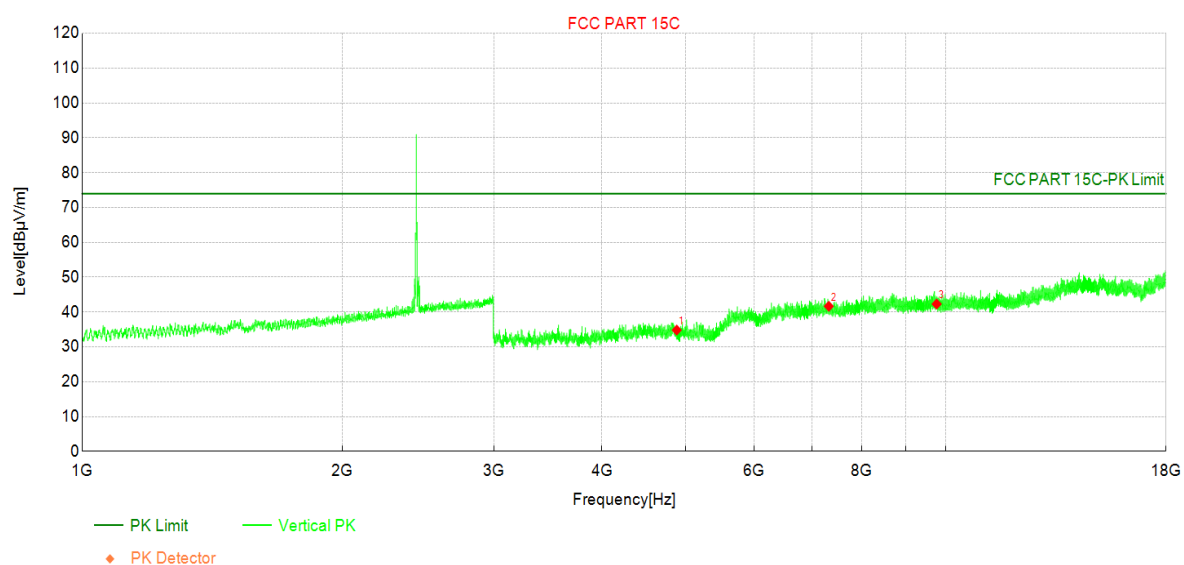
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4882.00	40.80	34.72	-6.08	74.00	39.28	PK	Horizo	PASS
	4882.00	-	9.96	-	54.00	44.04	AV	Horizo	PASS
2	7323.00	38.52	41.30	2.78	74.00	32.70	PK	Horizo	PASS
	7323.00	-	16.54	-	54.00	37.46	AV	Horizo	PASS
3	9764.00	36.18	42.30	6.12	74.00	31.70	PK	Horizo	PASS
	9764.00	-	17.54	-	54.00	36.46	AV	Horizo	PASS

Test Report

Project Information

Profile:	2520983R	EUT:	Smart Controller
Mode:	Mode1:Transmit at 2441MHz by DH5	Volta	120 Vac / 60 Hz
Environment:	Temp: 25°C ; Humi:60%	Engi	Reyn Chen
Test Standard:	FCC PART 15C		

Test Graph



Suspected Data List

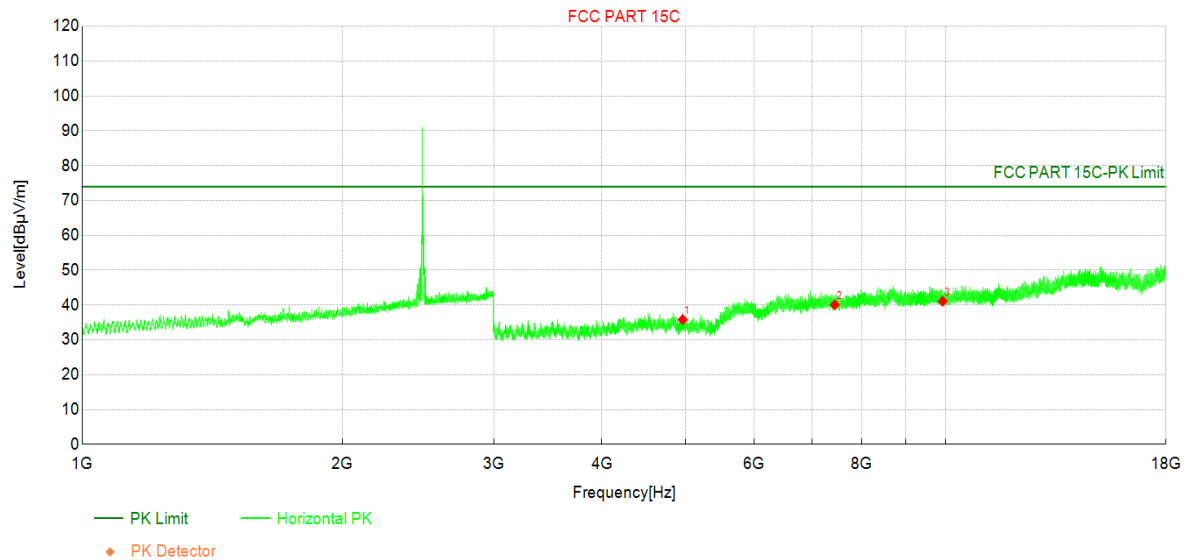
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4882.00	40.90	34.82	-6.08	74.00	39.18	PK	Vertic	PASS
	4882.00	-	10.06	-	54.00	43.94	AV	Vertic	PASS
2	7323.00	38.87	41.65	2.78	74.00	32.35	PK	Vertic	PASS
	7323.00	-	16.89	-	54.00	37.11	AV	Vertic	PASS
3	9764.00	36.17	42.29	6.12	74.00	31.71	PK	Vertic	PASS
	9764.00	-	17.53	-	54.00	36.47	AV	Vertic	PASS

Test Report

Project Information

Profile:	2520983R	EUT:	Smart Controller
Mode:	Mode1:Transmit at 2480MHz by DH5	Volta	120 Vac / 60 Hz
Environment:	Temp: 25°C ; Humi:60%	Engi	Reyn Chen
Test Standard:	FCC PART 15C		

Test Graph



Suspected Data List

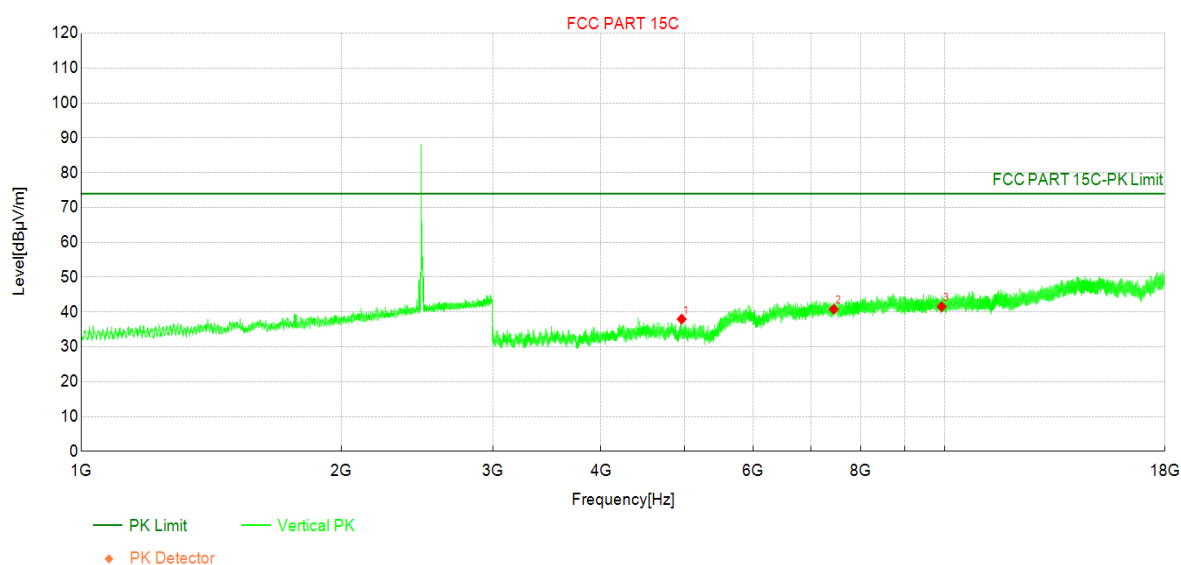
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4960.00	41.07	35.80	-5.27	74.00	38.20	PK	Horizo	PASS
	4960.00	-	11.04	-	54.00	42.96	AV	Horizo	PASS
2	7440.00	37.50	40.06	2.56	74.00	33.94	PK	Horizo	PASS
	7440.00	-	15.30	-	54.00	38.70	AV	Horizo	PASS
3	9920.00	35.46	41.08	5.62	74.00	32.92	PK	Horizo	PASS
	9920.00	-	16.32	-	54.00	37.68	AV	Horizo	PASS

Test Report

Project Information

Profile:	2520983R	EUT:	Smart Controller
Mode:	Mode1:Transmit at 2480MHz by DH5	Volta	120 Vac / 60 Hz
Environment:	Temp: 25°C ; Humi:60%	Engi	Reyn Chen
Test Standard:	FCC PART 15C		

Test Graph



Suspected Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4960.00	43.23	37.96	-5.27	74.00	36.04	PK	Vertic	PASS
	4960.00	-	13.20	-	54.00	40.80	AV	Vertic	PASS
2	7440.00	38.24	40.80	2.56	74.00	33.20	PK	Vertic	PASS
	7440.00	-	16.04	-	54.00	37.96	AV	Vertic	PASS
3	9920.00	35.94	41.56	5.62	74.00	32.44	PK	Vertic	PASS
	9920.00	-	16.80	-	54.00	37.20	AV	Vertic	PASS

Note:

1. Level = Reading + Factor

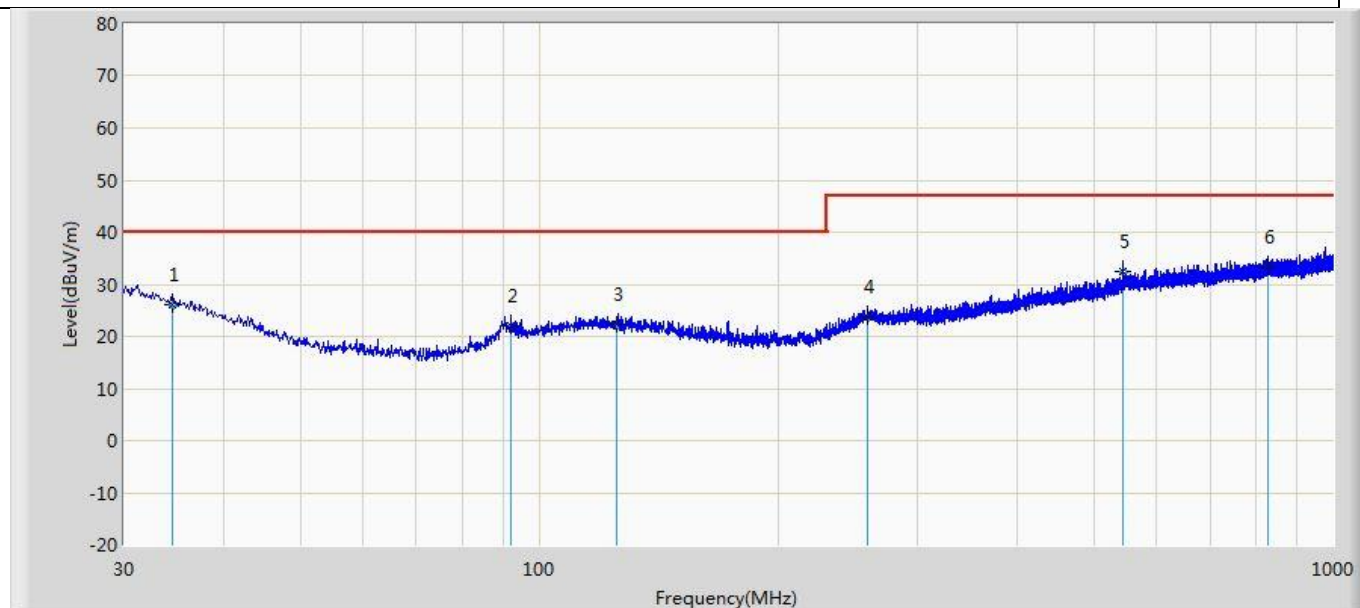
2. Margin = Limit - Level, AV Level = PK Level + Duty Cycle Factor.

3. The test frequency range, 9kHz~30MHz, worst case are at least 20dB below the limits, therefore no data appear in the report.

4. 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.

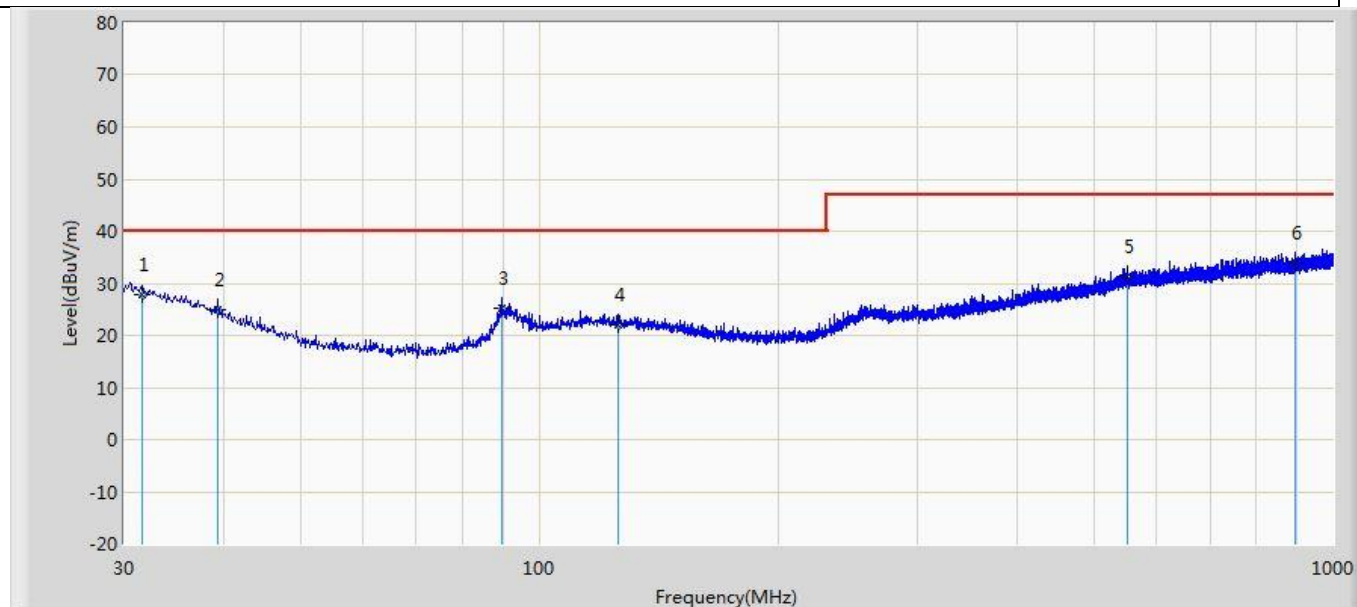
The worst case of Radiated Emission below 1GHz :

Profile: 2520983R	Page No.: 1
Engineer: Yuliu	
Site: AC2	Time: 2025/03/26
Limit: EN 55032_RE (3m)_Class B	Margin: 0
Probe: CBL6112B_2933(30-1000MHz)	Polarity: Horizontal
EUT: Smart Controller	Power: 120 Vac / 60 Hz
Note: Transmit at DH5	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		34.486	25.978	2.951	-14.022	40.000	23.027	QP
2		92.201	22.169	5.688	-17.831	40.000	16.481	QP
3		125.030	22.463	3.357	-17.537	40.000	19.106	QP
4		259.647	23.688	2.419	-23.312	47.000	21.269	QP
5		544.100	32.362	5.164	-14.638	47.000	27.198	QP
6	*	829.523	33.341	3.513	-13.659	47.000	29.829	QP

Profile: 2520983R	Page No.: 2
Engineer: Yuliu	
Site: AC2	Time: 2025/03/26
Limit: EN 55032_RE (3m)_Class B	Margin: 0
Probe: CBL6112B_2933(30-1000MHz)	Polarity: Vertical
EUT: Smart Controller	Power: 120 Vac / 60 Hz
Note: Transmit at DH5	



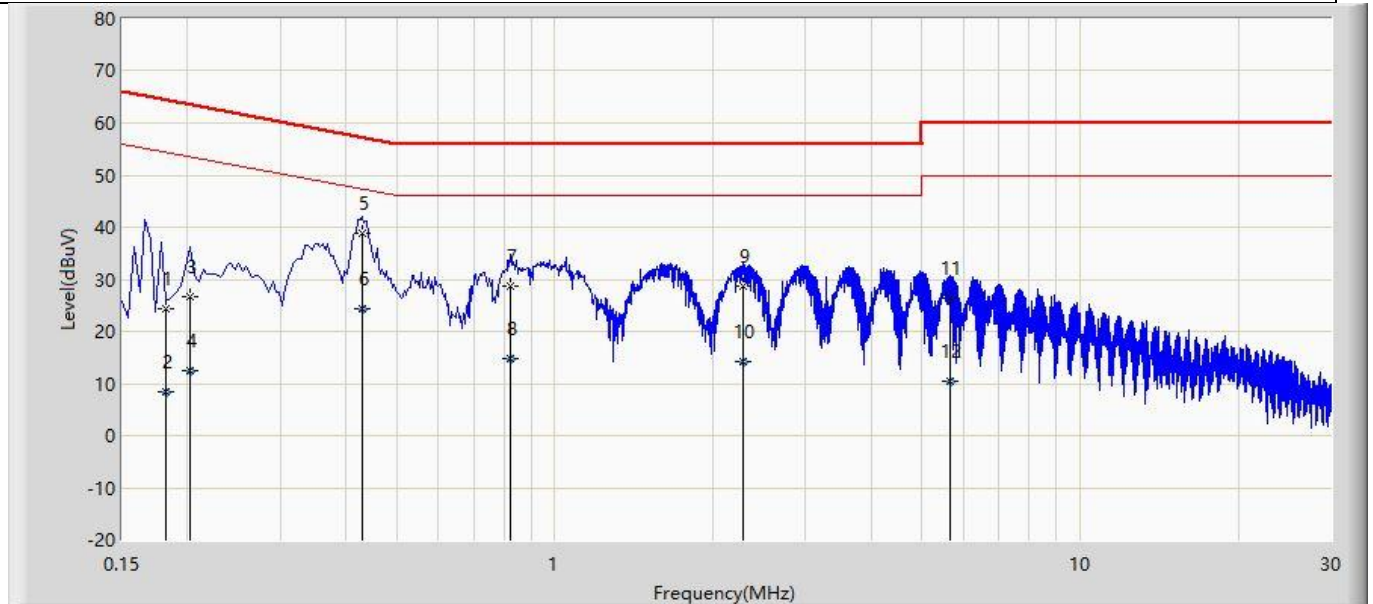
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	31.576	27.693	3.259	-12.307	40.000	24.435	QP
2		39.336	24.889	4.518	-15.111	40.000	20.372	QP
3		89.655	25.255	9.264	-14.745	40.000	15.991	QP
4		125.909	22.083	3.015	-17.917	40.000	19.069	QP
5		551.375	31.322	3.808	-15.678	47.000	27.514	QP
6		894.513	33.868	4.112	-13.132	47.000	29.756	QP

Note:

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

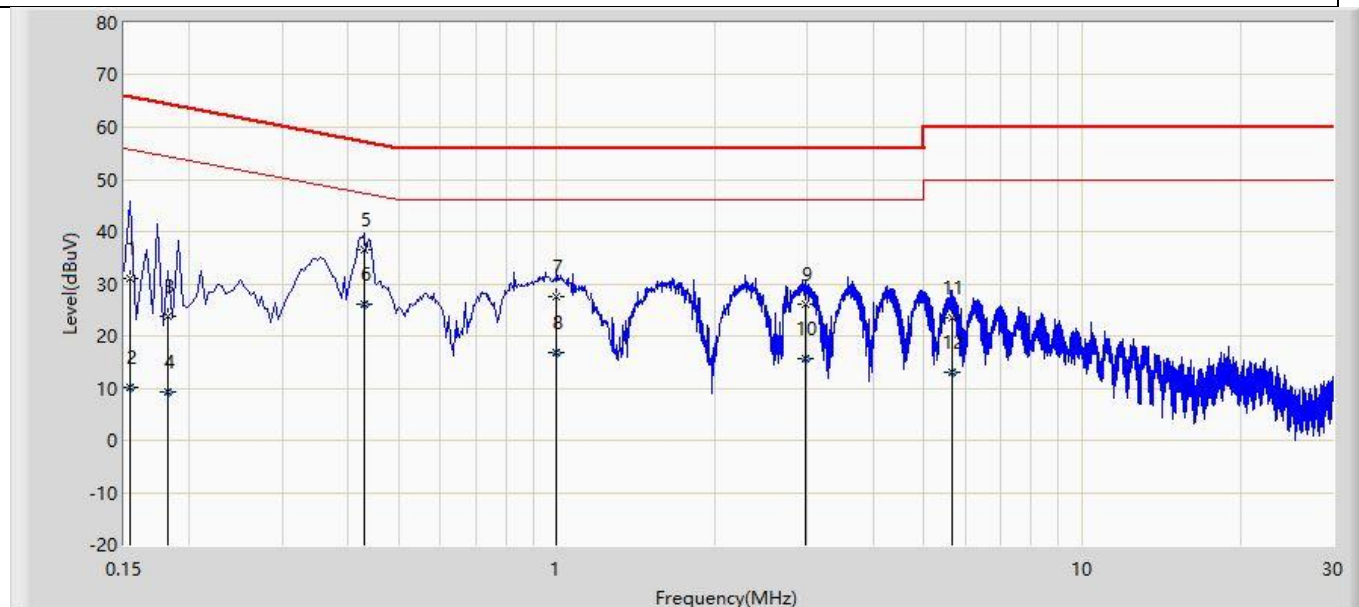
Appendix K: AC Power Line Conducted Emission

Profile: 2520983R	Page No.: 1
Engineer: Yu Liu	
Site: TR1	Time: 2025/03/26
Limit: FCC_Part 15.207	Margin: 0
Probe: ENV216_101189(0.009-30MHz)	Polarity: Line
EUT: Smart Controller	Power: 120 Vac / 60 Hz
Note: Transmit at DH5	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.182	24.456	14.758	-39.960	64.416	9.698	QP
2		0.182	8.513	-1.185	-45.903	54.416	9.698	AV
3		0.202	26.689	16.993	-36.839	63.528	9.696	QP
4		0.202	12.543	2.847	-40.985	53.528	9.696	AV
5	*	0.430	38.822	29.087	-18.431	57.253	9.734	QP
6		0.430	24.265	14.530	-22.988	47.253	9.734	AV
7		0.822	28.690	18.966	-27.310	56.000	9.724	QP
8		0.822	14.702	4.978	-31.298	46.000	9.724	AV
9		2.282	28.770	18.959	-27.230	56.000	9.811	QP
10		2.282	14.299	4.488	-31.701	46.000	9.811	AV
11		5.666	26.435	16.566	-33.565	60.000	9.869	QP
12		5.666	10.322	0.453	-39.678	50.000	9.869	AV

Profile: 2520983R	Page No.: 2
Engineer: Yu Liu	
Site: TR1	Time: 2025/03/26
Limit: FCC_Part 15.207	Margin: 0
Probe: ENV216_101189(0.009-30MHz)	Polarity: Neutral
EUT: Smart Controller	Power: 120 Vac / 60 Hz
Note: Transmit at DH5	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.154	31.154	21.427	-34.627	65.781	9.727	QP
2		0.154	10.087	0.360	-45.694	55.781	9.727	AV
3		0.182	23.799	14.096	-40.617	64.416	9.703	QP
4		0.182	9.188	-0.515	-45.228	54.416	9.703	AV
5	*	0.430	36.441	26.794	-20.812	57.253	9.647	QP
6		0.430	25.983	16.336	-21.270	47.253	9.647	AV
7		0.998	27.427	17.698	-28.573	56.000	9.729	QP
8		0.998	16.828	7.098	-29.172	46.000	9.729	AV
9		2.966	26.144	16.369	-29.856	56.000	9.775	QP
10		2.966	15.747	5.972	-30.253	46.000	9.775	AV
11		5.646	23.563	13.689	-36.437	60.000	9.875	QP
12		5.646	13.183	3.308	-36.817	50.000	9.875	AV

Note:

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

The End