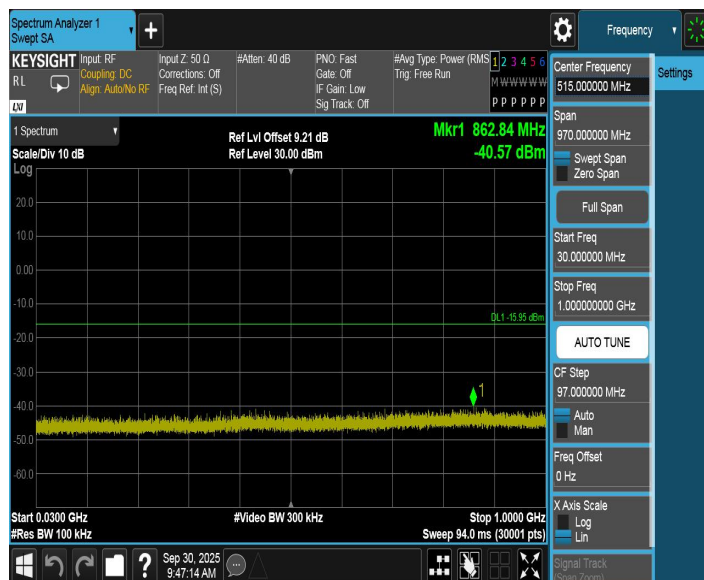




2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



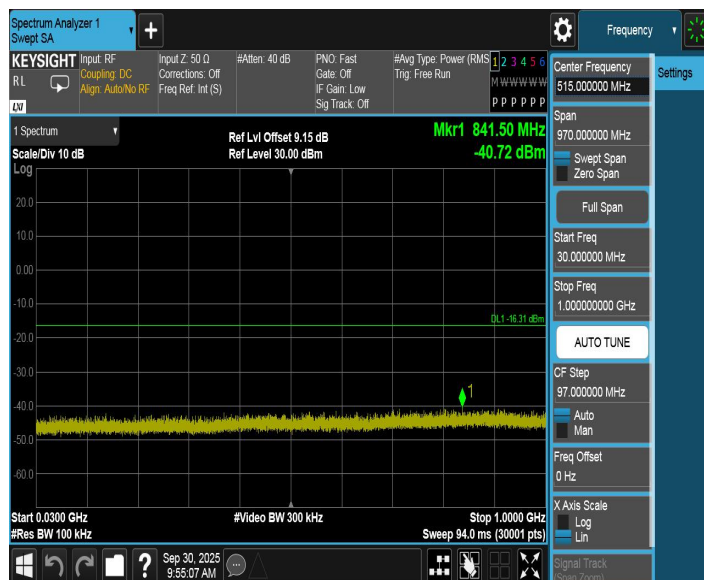
2DH5_Ant1_2441_1000~26500



2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000



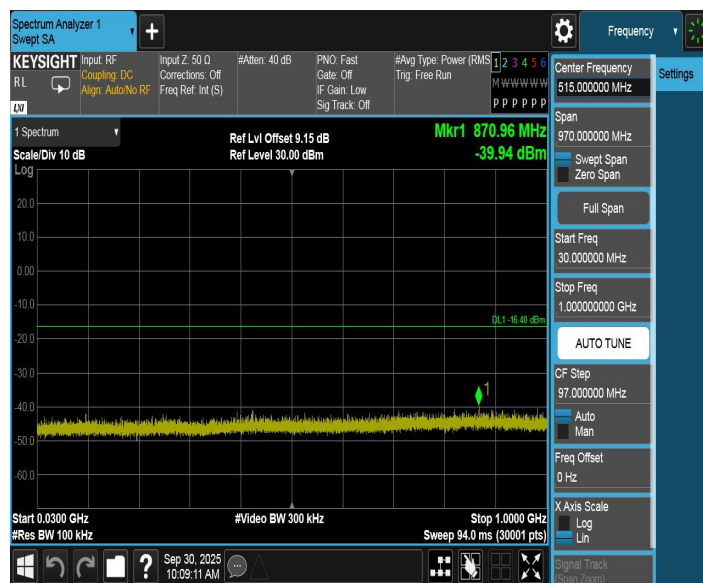
3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500



7.9. Radiated Spurious Emission Measurement

7.9.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

7.9.2. Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

ANSI C63.10 Section 6.4 (Standard test method below 30MHz)

ANSI C63.10 Section 6.5 (Standard test method above 30MHz to 1GHz)

ANSI C63.10 Section 6.6 (Standard test method above 1GHz)

7.9.3. Test Setting

Quasi-Peak Measurements below 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = as specified in Table 1
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

Table 1 - RBW as a function of frequency

Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

Peak Measurements above 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

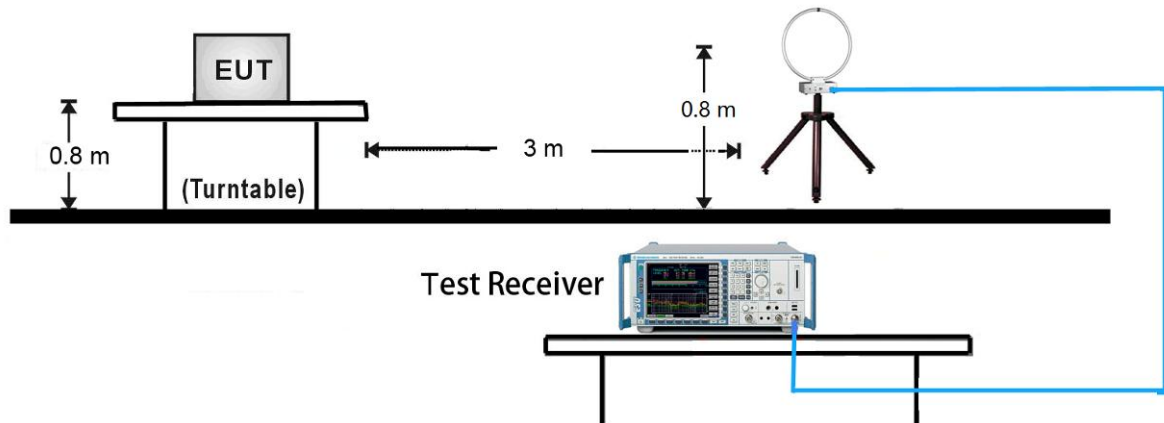
Average Measurements above 1GHz (Method VB)

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10 Hz.
If the EUT duty cycle is $< 98\%$, set VBW $\geq 1/T$. T is the minimum transmission duration.
4. Detector = Peak
5. Sweep time = auto

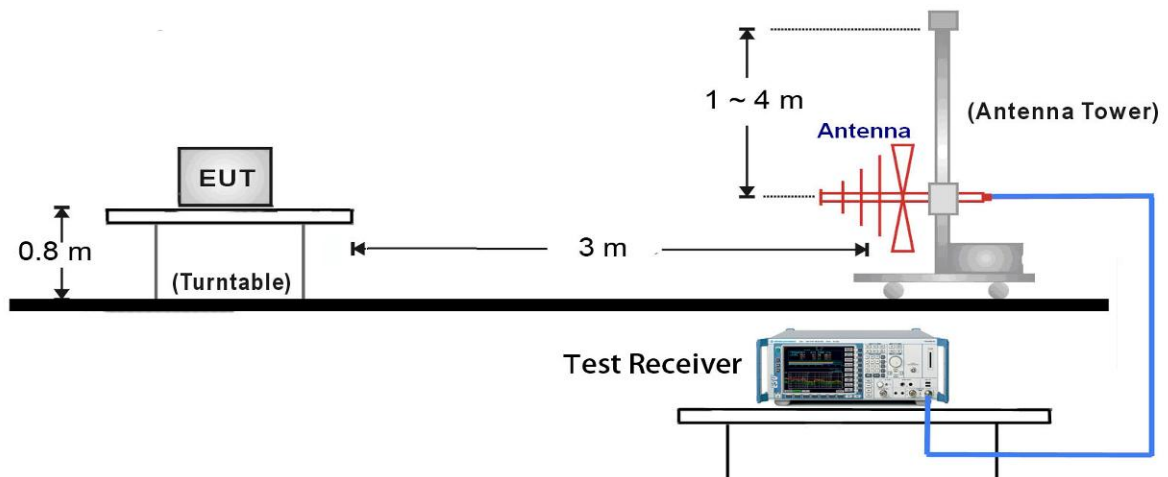
6. Trace mode = max hold
7. Trace was allowed to stabilize

7.9.4. Test Setup

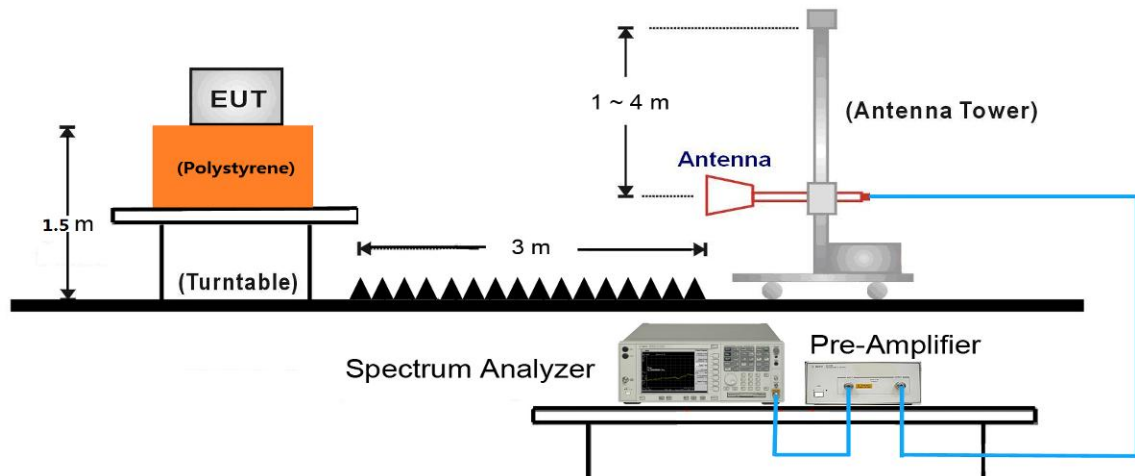
9kHz ~ 30MHz Test Setup:



30MHz ~ 1GHz Test Setup:



1GHz ~ 25GHz Test Setup:



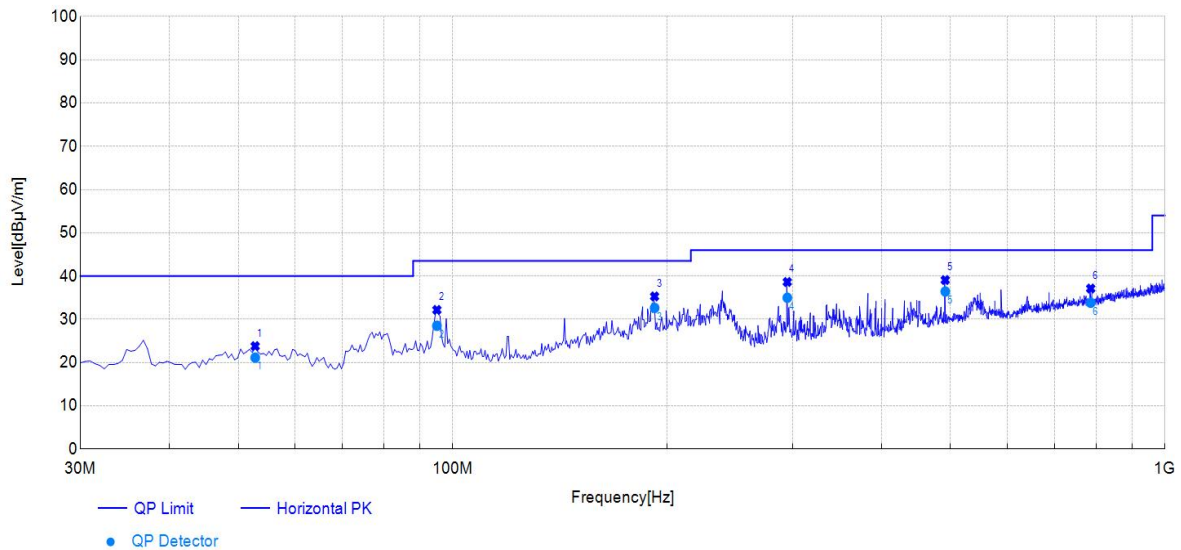
7.9.5. Test Result

The worst case of Radiated Emission below 1GHz:

30MHz – 1GHz Test Data

EUT:	DIGITAL PIANO	Polarity:	Horizontal
Model:	DDP-200	Test Engineer:	Chuang Li
Mode:	Transmit at DH5 Channel 00	Voltage:	AC 120V
Environment:	Temp: 22.1℃; Humi: 52%	Test Date:	2025-09-30

Test Graph

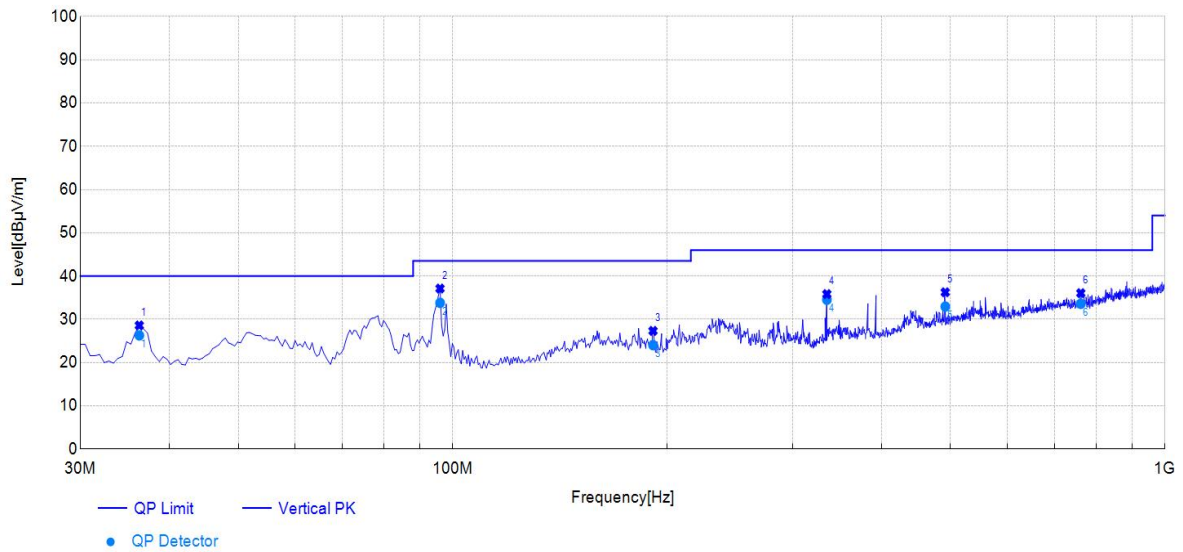


Final Data List										
NO.	Frequency [MHz]	Factor [dB/m]	QP Reading [dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	52.81	13.18	7.96	21.14	40.00	18.86	150	153	Horizontal	PASS
2	95.02	11.68	16.84	28.52	43.50	14.98	150	214	Horizontal	PASS
3	192.07	15.39	17.25	32.64	43.50	10.86	100	192	Horizontal	PASS
4	294.94	16.58	18.4	34.98	46.00	11.02	150	198	Horizontal	PASS
5	491.47	21.84	14.59	36.43	46.00	9.57	100	66	Horizontal	PASS
6	786.49	26.34	7.49	33.83	46.00	12.17	150	211	Horizontal	PASS

Note 1: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 26.5GHz), therefore no data appear in the report.

EUT:	DIGITAL PIANO	Polarity:	Vertical
Model:	DDP-200	Test Engineer:	Chuang Li
Mode:	Transmit at DH5 Channel 00	Voltage:	AC 120V
Environment:	Temp: 22.1°C; Humi: 52%	Test Date:	2025-09-30

Test Graph

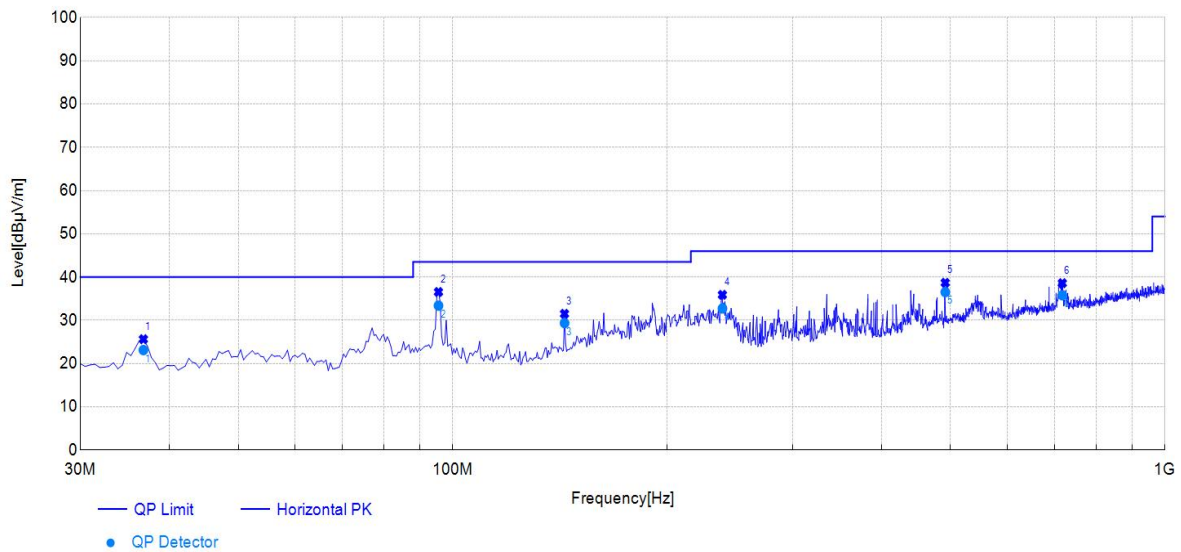


Final Data List										
NO.	Frequency [MHz]	Factor [dB/m]	QP Reading [dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	36.31	13.13	13.15	26.28	40.00	13.72	100	84	Vertical	PASS
2	95.99	11.81	22.01	33.82	43.50	9.68	100	189	Vertical	PASS
3	191.10	15.40	8.62	24.02	43.50	19.48	100	149	Vertical	PASS
4	335.22	17.54	16.99	34.53	46.00	11.47	100	162	Vertical	PASS
5	491.47	21.84	11.11	32.95	46.00	13.05	150	106	Vertical	PASS
6	761.75	26.09	7.5	33.59	46.00	12.41	100	116	Vertical	PASS

30MHz – 1GHz Test Data

EUT:	DIGITAL PIANO	Polarity:	Horizontal
Model:	DDP-200	Test Engineer:	Chuang Li
Mode:	Transmit at DH5 Channel 39	Voltage:	AC 120V
Environment:	Temp: 22.1°C; Humi: 52%	Test Date:	2025-09-30

Test Graph

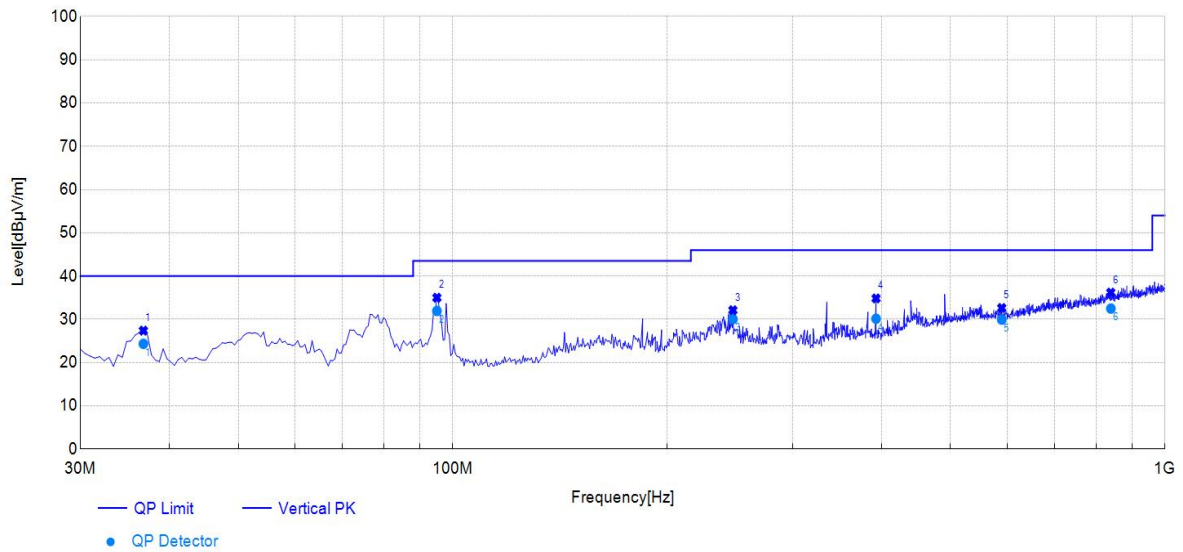


Final Data List										
NO.	Frequency [MHz]	Factor [dB/m]	QP Reading [dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	36.79	13.11	10.01	23.12	40.00	16.88	100	325	Horizontal	PASS
2	95.51	11.74	21.66	33.40	43.50	10.10	150	266	Horizontal	PASS
3	143.55	16.67	12.69	29.36	43.50	14.14	100	80	Horizontal	PASS
4	239.14	15.82	16.92	32.74	46.00	13.26	150	118	Horizontal	PASS
5	491.47	21.84	14.69	36.53	46.00	9.47	150	66	Horizontal	PASS
6	717.59	25.07	10.73	35.80	46.00	10.20	100	10	Horizontal	PASS

Note 1: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 26.5GHz), therefore no data appear in the report.

EUT:	DIGITAL PIANO	Polarity:	Vertical
Model:	DDP-200	Test Engineer:	Chuang Li
Mode:	Transmit at DH5 Channel 39	Voltage:	AC 120V
Environment:	Temp: 22.1℃; Humi: 52%	Test Date:	2025-09-30

Test Graph



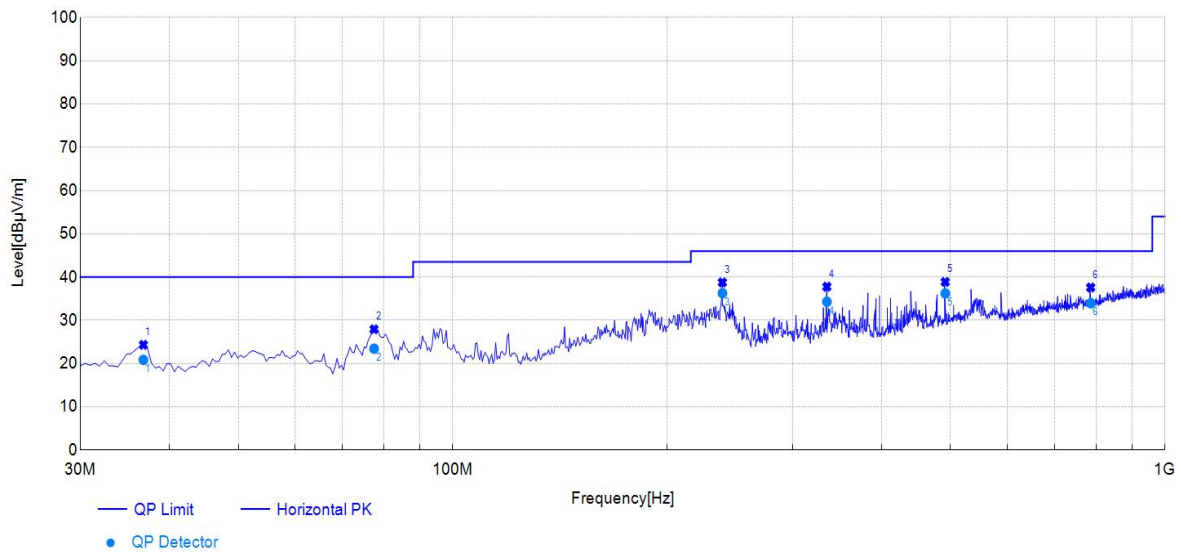
Final Data List										
NO.	Frequency [MHz]	Factor [dB/m]	QP Reading [dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	36.79	13.11	11.22	24.33	40.00	15.67	150	64	Vertical	PASS
2	95.02	11.68	20.26	31.94	43.50	11.56	150	204	Vertical	PASS
3	247.39	16.03	14.02	30.05	46.00	15.95	150	188	Vertical	PASS
4	392.96	19.09	11.05	30.14	46.00	15.86	100	240	Vertical	PASS
5	589.97	23.29	6.64	29.93	46.00	16.07	100	191	Vertical	PASS
6	839.38	27.30	5.19	32.49	46.00	13.51	100	80	Vertical	PASS

Note 1: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 26.5GHz), therefore no data appear in the report.

30MHz – 1GHz Test Data

EUT:	DIGITAL PIANO	Polarity:	Horizontal
Model:	DDP-200	Test Engineer:	Chuang Li
Mode:	Transmit at DH5 Channel 78	Voltage:	AC 120V
Environment:	Temp: 22.1°C; Humi: 52%	Test Date:	2025-09-30

Test Graph

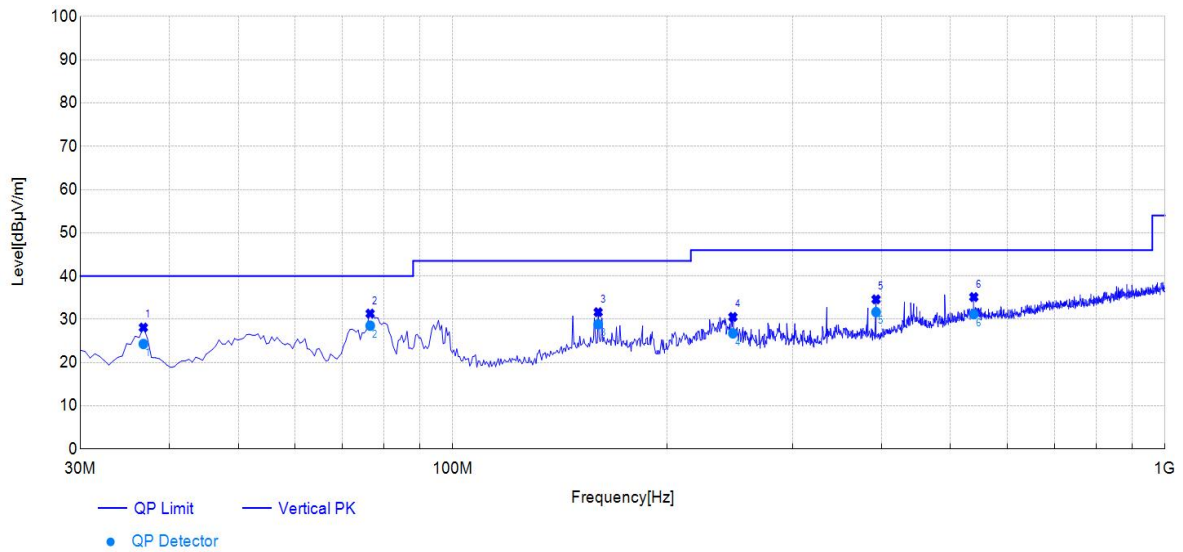


Final Data List										
NO.	Frequency [MHz]	Factor [dB/m]	QP Reading [dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	36.79	13.11	7.74	20.85	40.00	19.15	100	197	Horizontal	PASS
2	77.55	11.25	12.19	23.44	40.00	16.56	150	60	Horizontal	PASS
3	239.14	15.82	20.46	36.28	46.00	9.72	100	250	Horizontal	PASS
4	335.22	17.54	16.75	34.29	46.00	11.71	150	210	Horizontal	PASS
5	491.47	21.84	14.39	36.23	46.00	9.77	150	64	Horizontal	PASS
6	786.49	26.34	7.6	33.94	46.00	12.06	150	210	Horizontal	PASS

Note 1: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 26.5GHz), therefore no data appear in the report.

EUT:	DIGITAL PIANO	Polarity:	Vertical
Model:	DDP-200	Test Engineer:	Chuang Li
Mode:	Transmit at DH5 Channel 78	Voltage:	AC 120V
Environment:	Temp: 22.1°C; Humi: 52%	Test Date:	2025-09-30

Test Graph



Final Data List										
NO.	Frequency [MHz]	Factor [dB/m]	QP Reading [dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	36.79	13.11	11.2	24.31	40.00	15.69	100	97	Vertical	PASS
2	76.58	11.27	17.26	28.53	40.00	11.47	100	351	Vertical	PASS
3	160.05	17.87	10.98	28.85	43.50	14.65	150	208	Vertical	PASS
4	247.39	16.03	10.72	26.75	46.00	19.25	100	213	Vertical	PASS
5	392.96	19.09	12.57	31.66	46.00	14.34	100	240	Vertical	PASS
6	539.02	22.65	8.54	31.19	46.00	14.81	100	97	Vertical	PASS

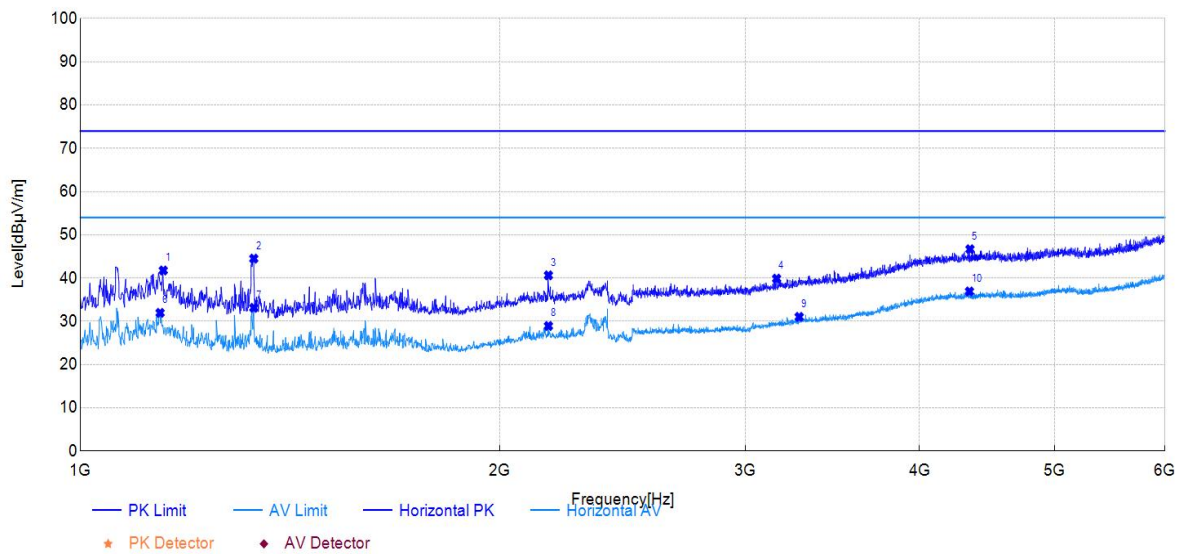
Note 1: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

The worst case of Radiated Emission above 1GHz:

1GHz – 6GHz Test Data

EUT:	DIGITAL PIANO	Polarity:	Horizontal
Model:	DDP-200	Test Engineer:	Chuang Li
Mode:	Transmit at DH5 Channel 00	Voltage:	AC 120V
Environment:	Temp: 22.1℃; Humi: 52%	Test Date:	2025-09-30

Test Graph



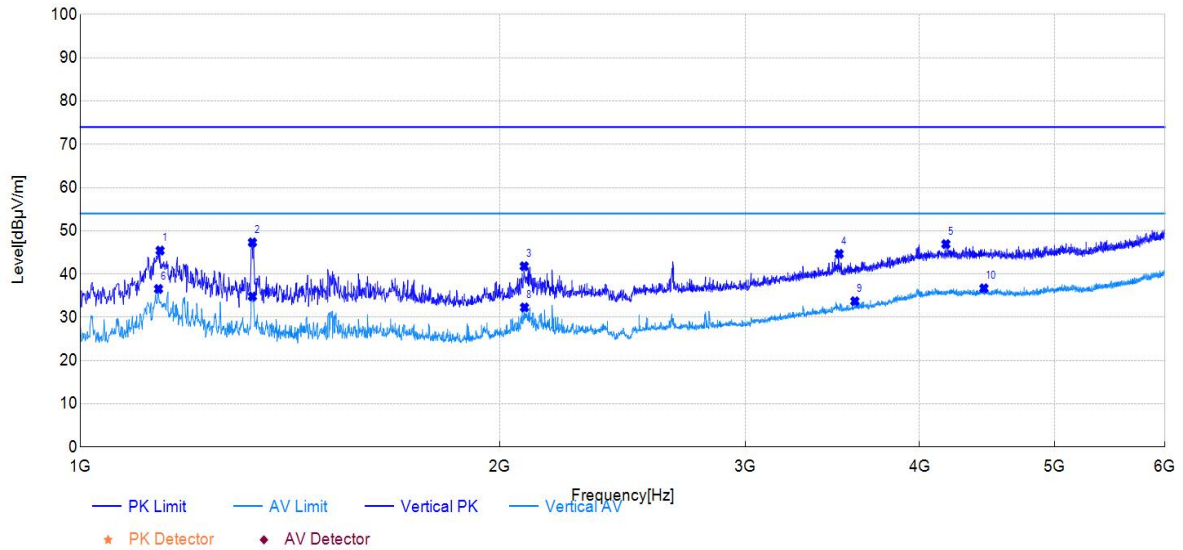
Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	1147.00	65.41	41.76	-23.65	74.00	32.24	150	191	PK	Horizontal	PASS
2	1332.00	67.16	44.50	-22.66	74.00	29.50	150	321	PK	Horizontal	PASS
3	2167.00	57.99	40.63	-17.36	74.00	33.37	150	236	PK	Horizontal	PASS
4	3159.00	53.67	39.87	-13.80	74.00	34.13	150	269	PK	Horizontal	PASS
5	4348.00	54.23	46.67	-7.56	74.00	27.33	150	191	PK	Horizontal	PASS
6	1141.00	55.63	31.95	-23.68	54.00	22.05	150	67	AV	Horizontal	PASS
7	1332.00	55.78	33.12	-22.66	54.00	20.88	150	321	AV	Horizontal	PASS
8	2167.00	46.28	28.92	-17.36	54.00	25.08	150	236	AV	Horizontal	PASS
9	3279.00	44.24	31.02	-13.22	54.00	22.98	150	57	AV	Horizontal	PASS
10	4344.00	44.47	36.90	-7.57	54.00	17.10	150	82	AV	Horizontal	PASS

Note 1: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 26.5GHz), therefore no data appear in the report.

EUT:	DIGITAL PIANO	Polarity:	Vertical
Model:	DDP-200	Test Engineer:	Chuang Li
Mode:	Transmit at DH5 Channel 00	Voltage:	AC 120V
Environment:	Temp: 22.1℃; Humi: 52%	Test Date:	2025-09-30

Test Graph



Suspected Data List

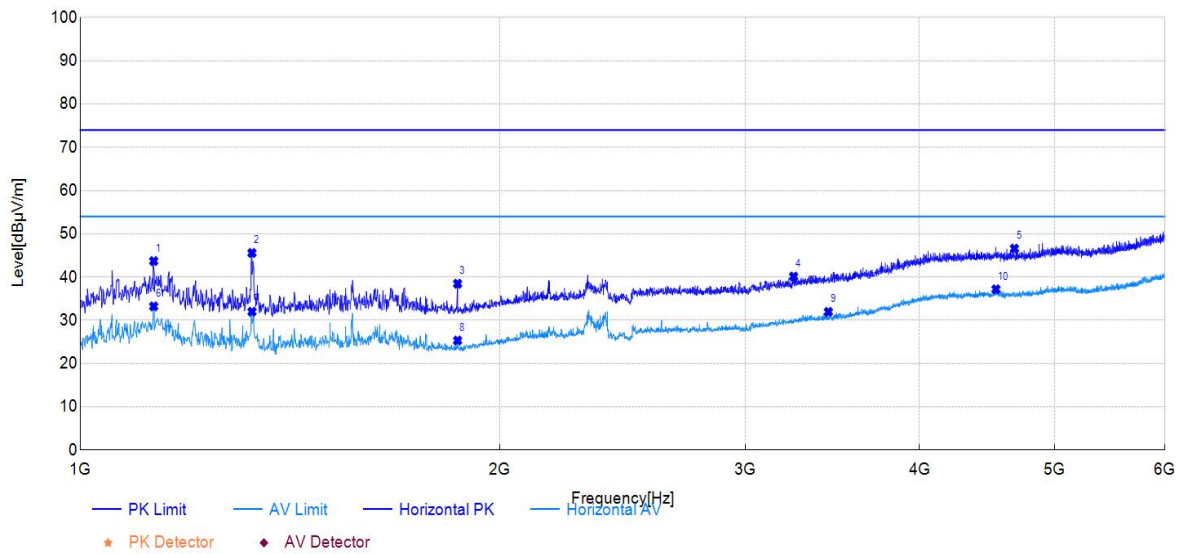
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	1141.00	68.10	45.43	-22.67	74.00	28.57	150	123	PK	Vertical	PASS
2	1329.00	69.09	47.31	-21.78	74.00	26.69	150	97	PK	Vertical	PASS
3	2082.00	59.26	41.80	-17.46	74.00	32.20	150	116	PK	Vertical	PASS
4	3503.00	56.20	44.66	-11.54	74.00	29.34	150	116	PK	Vertical	PASS
5	4178.00	54.85	46.92	-7.93	74.00	27.08	150	116	PK	Vertical	PASS
6	1138.00	59.23	36.55	-22.68	54.00	17.45	150	120	AV	Vertical	PASS
7	1329.00	56.62	34.84	-21.78	54.00	19.16	150	100	AV	Vertical	PASS
8	2083.00	49.74	32.28	-17.46	54.00	21.72	150	116	AV	Vertical	PASS
9	3595.00	44.56	33.72	-10.84	54.00	20.28	150	19	AV	Vertical	PASS
10	4449.00	44.33	36.70	-7.63	54.00	17.30	150	123	AV	Vertical	PASS

Note 1: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 26.5GHz), therefore no data appear in the report.

1GHz – 6GHz Test Data

EUT:	DIGITAL PIANO	Polarity:	Horizontal
Model:	DDP-200	Test Engineer:	Chuang Li
Mode:	Transmit at DH5 Channel 39	Voltage:	AC 120V
Environment:	Temp: 22.1°C; Humi: 52%	Test Date:	2025-09-30

Test Graph



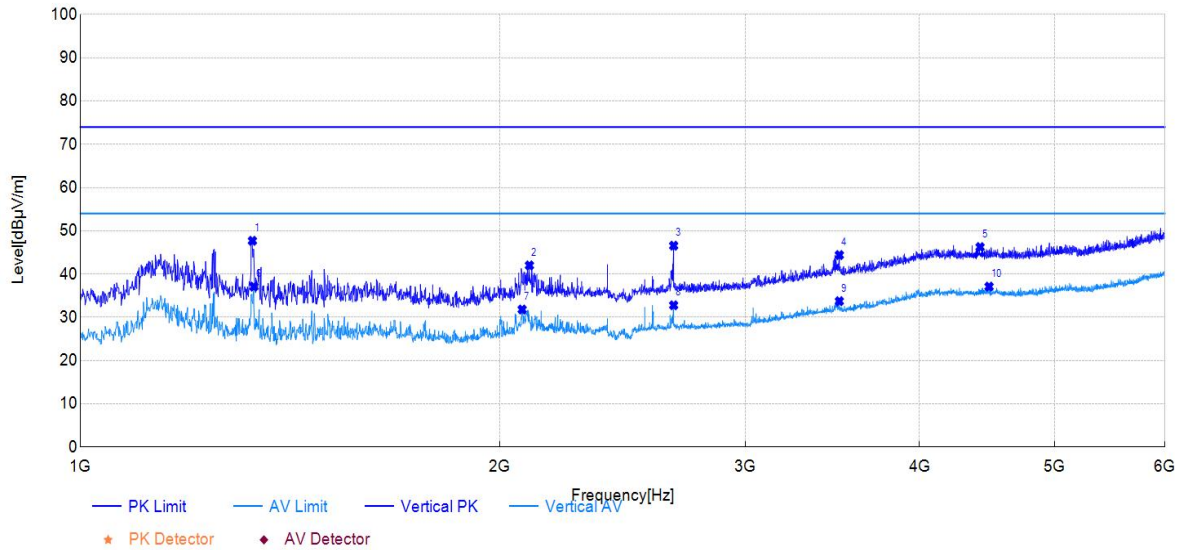
Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	1129.00	67.43	43.70	-23.73	74.00	30.30	150	190	PK	Horizontal	PASS
2	1328.00	68.26	45.57	-22.69	74.00	28.43	150	325	PK	Horizontal	PASS
3	1865.00	57.65	38.46	-19.19	74.00	35.54	150	59	PK	Horizontal	PASS
4	3249.00	53.48	40.12	-13.36	74.00	33.88	150	163	PK	Horizontal	PASS
5	4679.00	53.59	46.58	-7.01	74.00	27.42	150	360	PK	Horizontal	PASS
6	1129.00	56.95	33.22	-23.73	54.00	20.78	150	190	AV	Horizontal	PASS
7	1328.00	54.68	31.99	-22.69	54.00	22.01	150	325	AV	Horizontal	PASS
8	1865.00	44.52	25.33	-19.19	54.00	28.67	150	59	AV	Horizontal	PASS
9	3441.00	44.57	31.96	-12.61	54.00	22.04	150	360	AV	Horizontal	PASS
10	4538.00	44.34	37.17	-7.17	54.00	16.83	150	115	AV	Horizontal	PASS

Note 1: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 26.5GHz), therefore no data appear in the report.

EUT:	DIGITAL PIANO	Polarity:	Vertical
Model:	DDP-200	Test Engineer:	Chuang Li
Mode:	Transmit at DH5 Channel 39	Voltage:	AC 120V
Environment:	Temp: 22.1°C; Humi: 52%	Test Date:	2025-09-30

Test Graph



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	1329.00	69.47	47.69	-21.78	74.00	26.31	150	120	PK	Vertical	PASS
2	2100.00	59.39	42.00	-17.39	74.00	32.00	150	102	PK	Vertical	PASS
3	2665.00	62.01	46.56	-15.45	74.00	27.44	150	283	PK	Vertical	PASS
4	3504.00	55.93	44.39	-11.54	74.00	29.61	150	116	PK	Vertical	PASS
5	4421.00	53.89	46.24	-7.65	74.00	27.76	150	72	PK	Vertical	PASS
6	1332.00	58.85	37.09	-21.76	54.00	16.91	150	82	AV	Vertical	PASS
7	2075.00	49.28	31.80	-17.48	54.00	22.20	150	91	AV	Vertical	PASS
8	2665.00	48.23	32.78	-15.45	54.00	21.22	150	283	AV	Vertical	PASS
9	3504.00	45.27	33.73	-11.54	54.00	20.27	150	116	AV	Vertical	PASS
10	4487.00	44.69	37.09	-7.60	54.00	16.91	150	354	AV	Vertical	PASS

Note 1: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 26.5GHz), therefore no data appear in the report.