

7.8. Conducted Spurious Emissions Measurement

7.8.1. Test Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

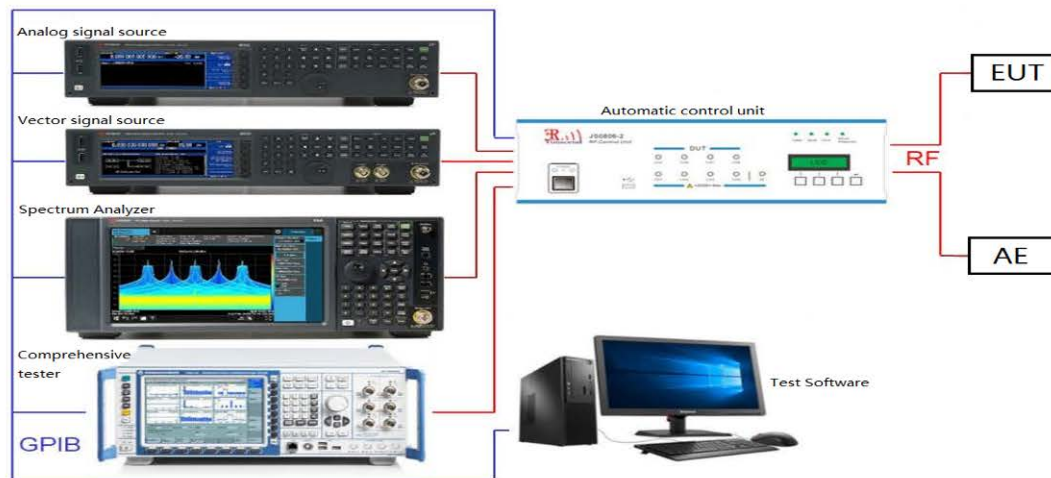
7.8.2. Test Procedure Used

ANSI C63.10-2013 - Section 7.8.8

7.8.3. Test Setting

1. Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.
2. RBW = 100 KHz
3. VBW $\geq$ RBW
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize
8. Set the marker on the peak of any spurious emission recorded. The level displayed must comply with the limit specified in this section.

7.8.4.Test Setup



7.8.5.Test Result

Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	6.83	6.83	---	PASS
			30~1000	6.83	-61.6	≤-13.17	PASS
			1000~26500	6.83	-47.61	≤-13.17	PASS
		2441	Reference	6.16	6.16	---	PASS
			30~1000	6.16	-61.41	≤-13.84	PASS
			1000~26500	6.16	-48.55	≤-13.84	PASS
		2480	Reference	6.90	6.90	---	PASS
			30~1000	6.90	-61.23	≤-13.1	PASS
			1000~26500	6.90	-48.68	≤-13.1	PASS
2DH5	Ant1	2402	Reference	5.78	5.78	---	PASS
			30~1000	5.78	-61.34	≤-14.22	PASS
			1000~26500	5.78	-46.46	≤-14.22	PASS
		2441	Reference	5.24	5.24	---	PASS
			30~1000	5.24	-61.49	≤-14.76	PASS
			1000~26500	5.24	-47.01	≤-14.76	PASS
		2480	Reference	5.35	5.35	---	PASS
			30~1000	5.35	-61.19	≤-14.65	PASS
			1000~26500	5.35	-47.37	≤-14.65	PASS
3DH5	Ant1	2402	Reference	5.79	5.79	---	PASS
			30~1000	5.79	-61.25	≤-14.21	PASS
			1000~26500	5.79	-46.38	≤-14.21	PASS
		2441	Reference	5.41	5.41	---	PASS
			30~1000	5.41	-61.47	≤-14.59	PASS
			1000~26500	5.41	-47.38	≤-14.59	PASS
		2480	Reference	5.49	5.49	---	PASS
			30~1000	5.49	-61.48	≤-14.51	PASS
			1000~26500	5.49	-47.24	≤-14.51	PASS

DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



DH5_Ant1_2402_1000~26500



DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



2DH5_Ant1_2402_1000~26500



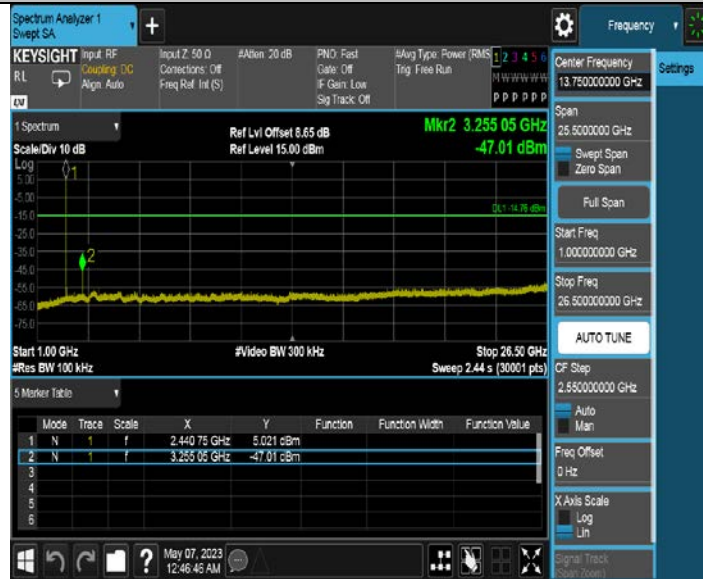
2DH5_Ant1_2441_0~Reference



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

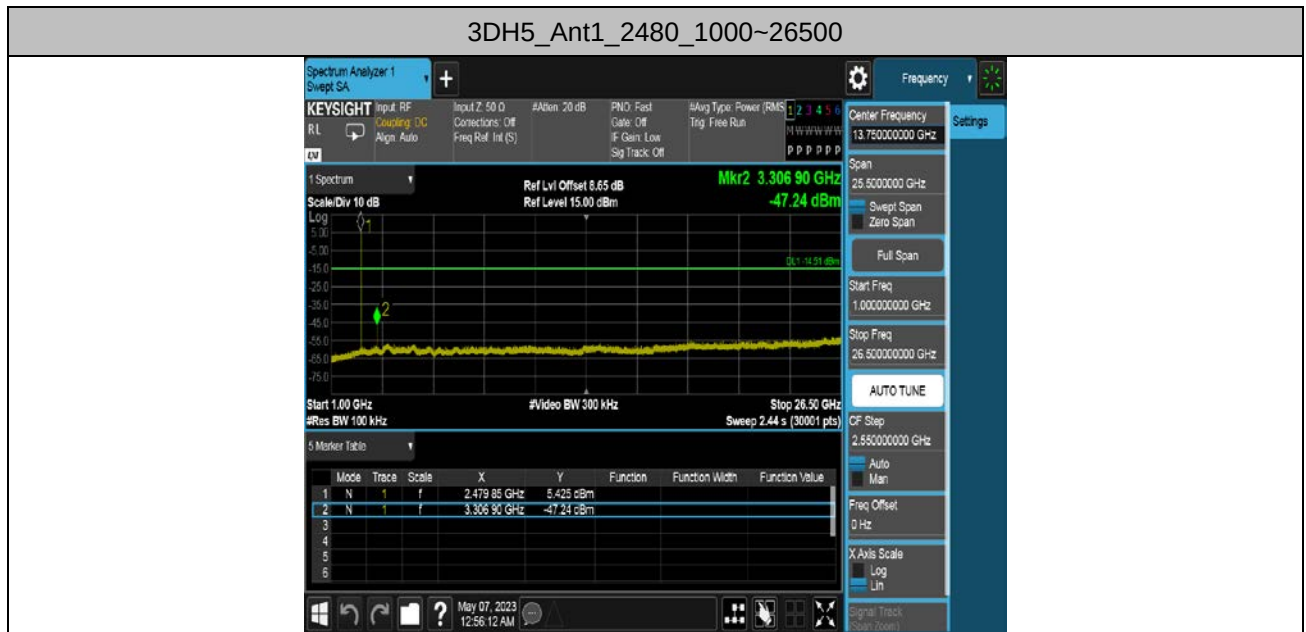


3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000





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

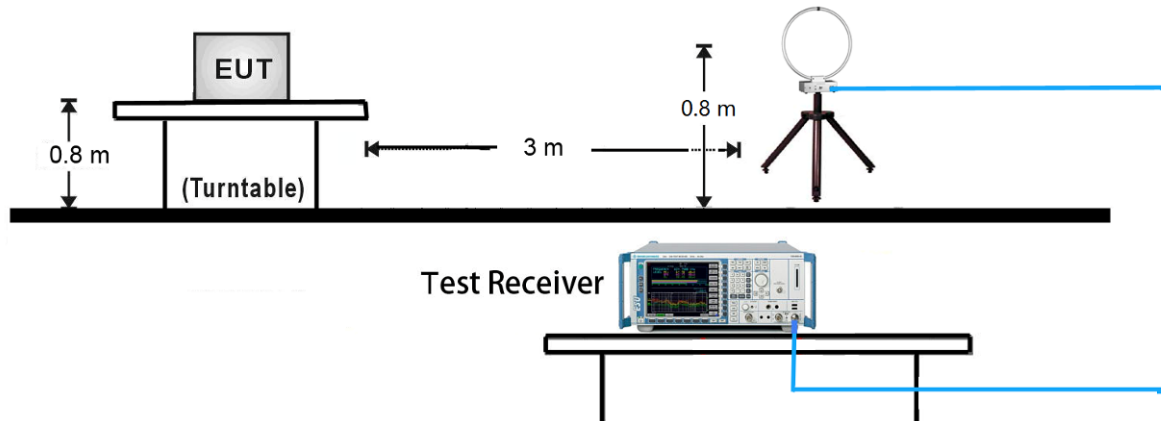
Average Measurements above 1GHz (Method VB)

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

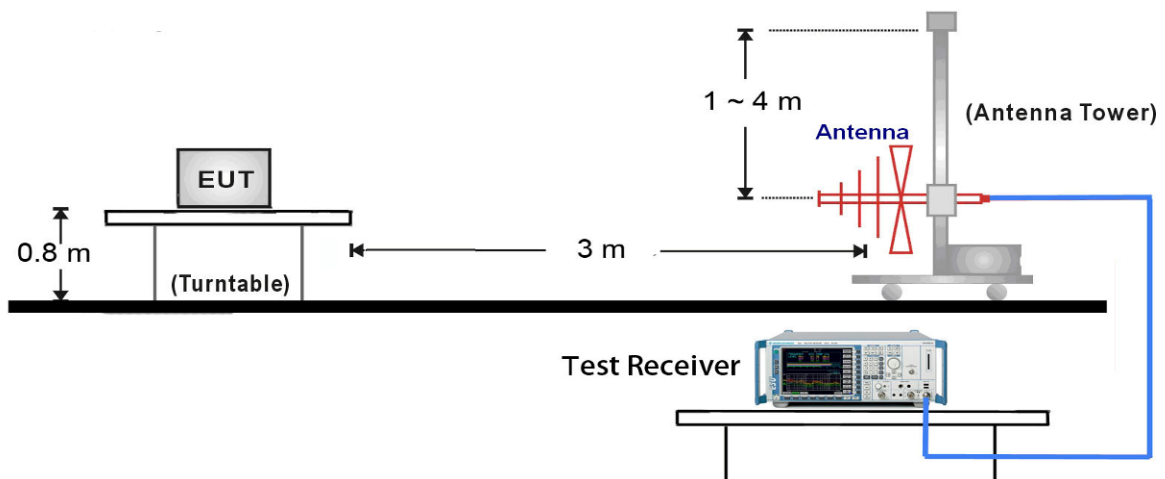
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

7.9.4. Test Setup

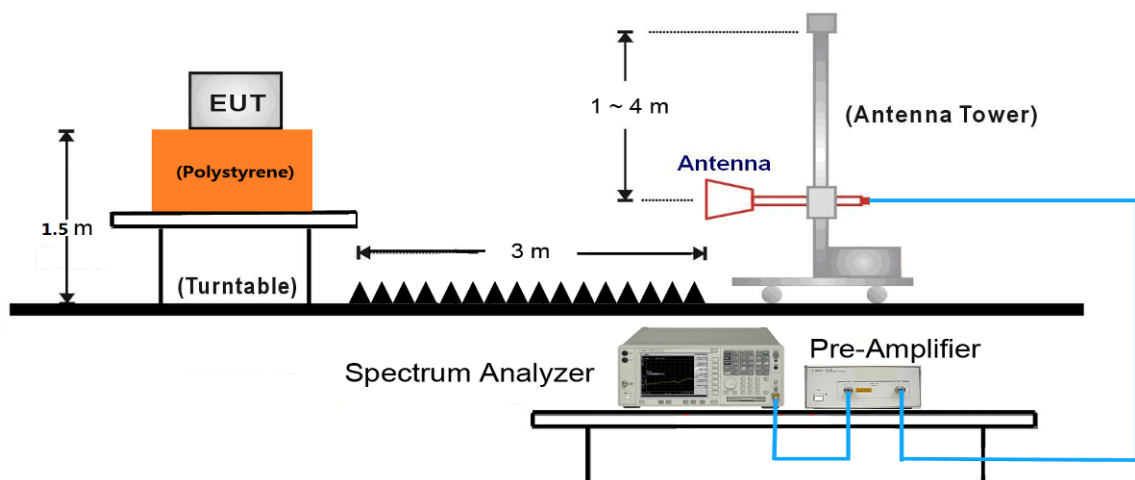
9kHz ~ 30MHz Test Setup:



30MHz ~ 1GHz Test Setup:



1GHz ~ 25GHz Test Setup:

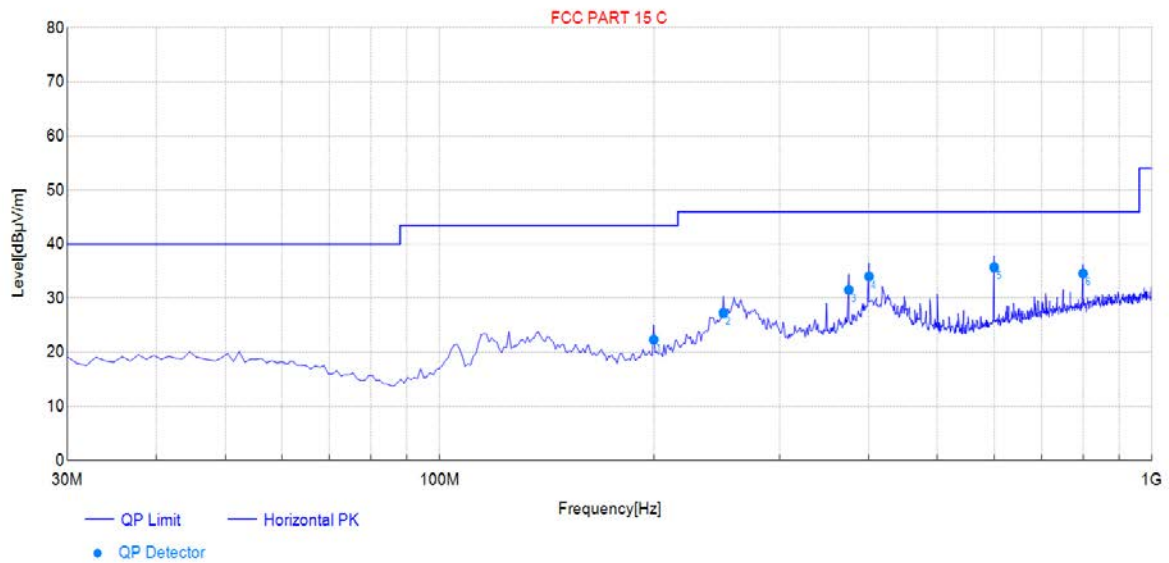


7.9.5.Test Result

The worst case of Radiated Emission below 1GHz:

30MHz – 1GHz Test Data

EUT:	LED Playback Control Processor	Polarity:	Horizontal
Model:	TU40 Pro	SN:	N/A
Mode:	Transmit at BT_DH5 Channel 00	Voltage:	AC 120V 60Hz
Environment:	Temp: 27.1℃; Humi:51%	Engineer:	Stone Zhang



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 [°]	Pol	Verdict
1	199.75	11.78	12.41	24.19	43.50	19.31	100	108	Horizontal	PASS
2	250.19	13.73	15.78	29.51	46.00	16.49	100	118	Horizontal	PASS
3	375.32	16.93	16.66	33.59	46.00	12.41	100	170	Horizontal	PASS
4	400.54	17.41	18.59	36.00	46.00	10.00	100	167	Horizontal	PASS
5	600.36	21.67	15.66	37.33	46.00	8.67	100	124	Horizontal	PASS
6	800.18	24.51	11.17	35.68	46.00	10.32	100	147	Horizontal	PASS

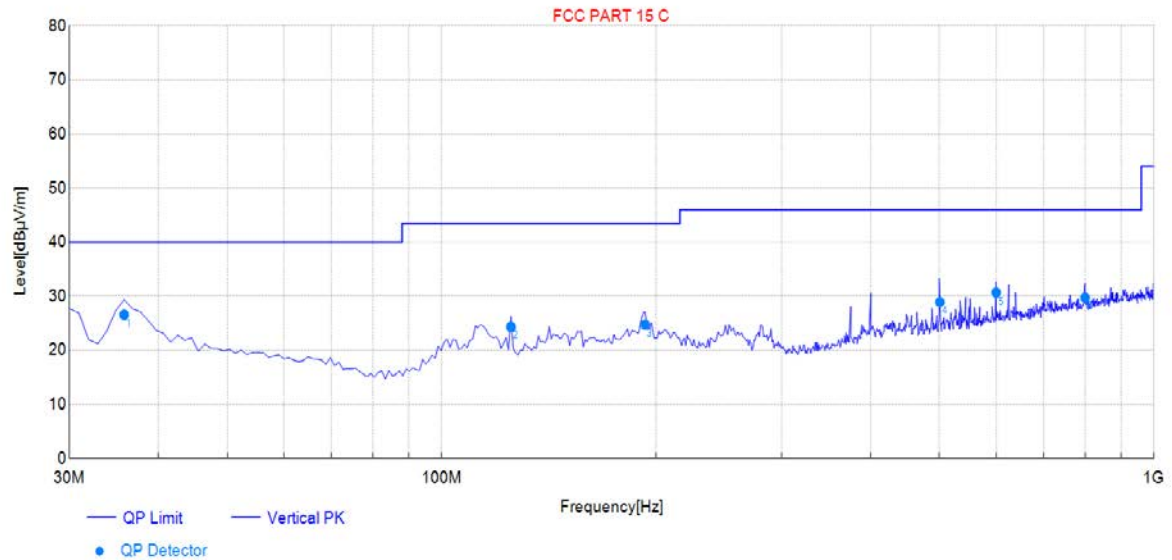
Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

(3) 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.

EUT:	LED Playback Control Processor	Polarity:	Vertical
Model:	TU40 Pro	SN:	N/A
Mode:	Transmit at BT_DH5 Channel 00	Voltage:	AC 120V 60Hz
Environment:	Temp: 27.1°C; Humi:51%	Engineer:	Stone Zhang



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 [°]	Pol	Verdict
1	35.82	14.28	14.14	28.42	40.00	11.58	100	153	Vertical	PASS
2	125.06	14.08	11.59	25.67	43.50	17.83	100	111	Vertical	PASS
3	192.96	12.43	14.08	26.51	43.50	16.99	100	92	Vertical	PASS
4	500.45	19.51	13.08	32.59	46.00	13.41	100	72	Vertical	PASS
5	600.36	21.67	10.49	32.16	46.00	13.84	100	301	Vertical	PASS
6	800.18	24.51	7.14	31.65	46.00	14.35	100	81	Vertical	PASS

Note:

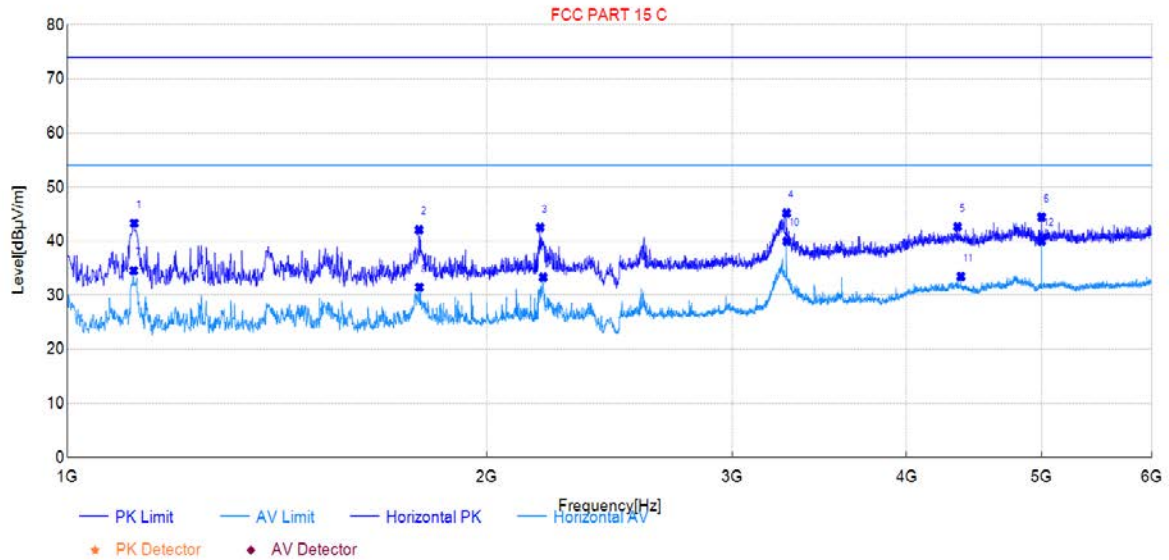
(1) Level=Reading + Factor

(2) Margin=Limit-Level

(3) 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.

1GHz-6GHz

Test Mode:	DH5	Test Date:	2024-08-29
Test Channel:	00	Test Engineer:	Stone Zhang



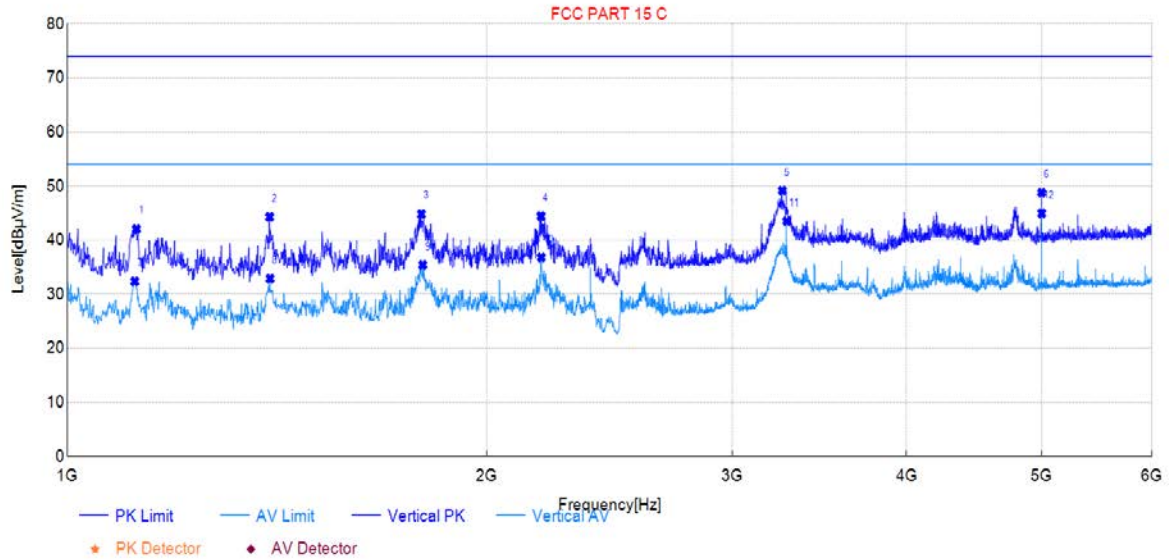
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1117.00	67.11	43.34	-23.77	74.00	30.66	150	139	PK	Horizontal	PASS
2	1788.00	61.68	42.10	-19.58	74.00	31.90	150	67	PK	Horizontal	PASS
3	2184.00	59.84	42.56	-17.28	74.00	31.44	150	321	PK	Horizontal	PASS
4	3281.00	58.42	45.20	-13.22	74.00	28.80	150	62	PK	Horizontal	PASS
5	4352.00	50.21	42.66	-7.55	74.00	31.34	150	276	PK	Horizontal	PASS
6	5000.00	50.49	44.47	-6.02	74.00	29.53	150	59	PK	Horizontal	PASS
7	1116.00	58.33	34.55	-23.78	54.00	19.45	150	139	AV	Horizontal	PASS
8	1789.00	51.08	31.50	-19.58	54.00	22.50	150	67	AV	Horizontal	PASS
9	2195.00	50.56	33.33	-17.23	54.00	20.67	150	330	AV	Horizontal	PASS
10	3282.00	53.18	39.98	-13.20	54.00	14.02	150	54	AV	Horizontal	PASS
11	4376.00	40.99	33.47	-7.52	54.00	20.53	150	339	AV	Horizontal	PASS
12	5001.00	46.00	39.98	-6.02	54.00	14.02	150	59	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	DH5	Test Date:	2024-08-29
Test Channel:	00	Test Engineer:	Stone Zhang



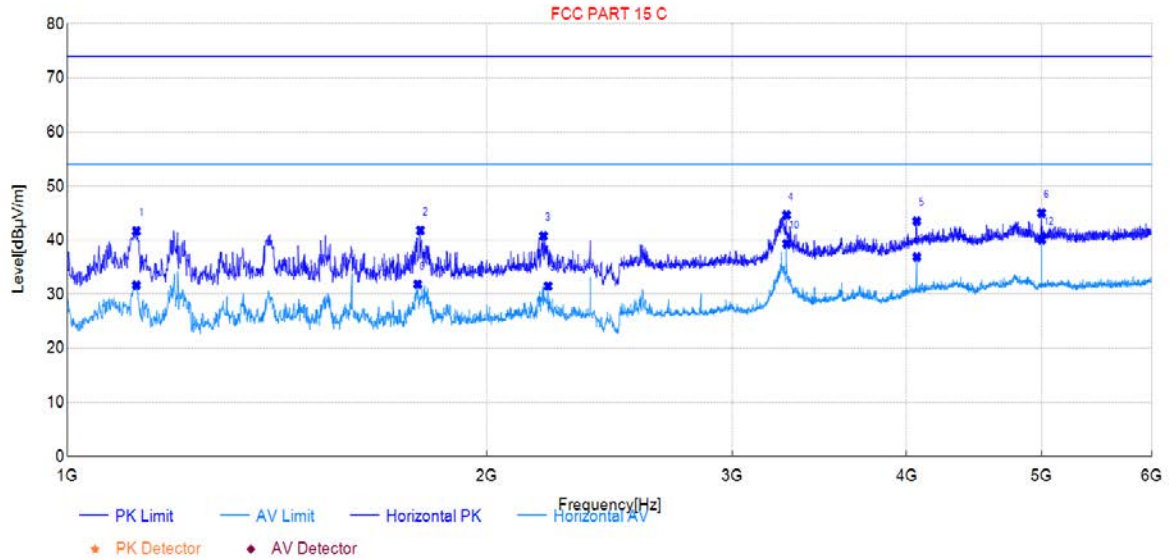
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1121.00	64.81	42.08	-22.73	74.00	31.92	150	135	PK	Vertical	PASS
2	1397.00	65.67	44.32	-21.35	74.00	29.68	150	93	PK	Vertical	PASS
3	1795.00	63.80	44.84	-18.96	74.00	29.16	150	67	PK	Vertical	PASS
4	2187.00	61.60	44.47	-17.13	74.00	29.53	150	55	PK	Vertical	PASS
5	3258.00	62.01	49.20	-12.81	74.00	24.80	150	131	PK	Vertical	PASS
6	5000.00	55.52	48.80	-6.72	74.00	25.20	150	135	PK	Vertical	PASS
7	1118.00	55.12	32.38	-22.74	54.00	21.62	150	131	AV	Vertical	PASS
8	1398.00	54.24	32.90	-21.34	54.00	21.10	150	93	AV	Vertical	PASS
9	1799.00	54.34	35.41	-18.93	54.00	18.59	150	58	AV	Vertical	PASS
10	2188.00	53.95	36.83	-17.12	54.00	17.17	150	55	AV	Vertical	PASS
11	3282.00	56.20	43.54	-12.66	54.00	10.46	150	122	AV	Vertical	PASS
12	5001.00	51.69	44.97	-6.72	54.00	9.03	150	135	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	DH5	Test Date:	2024-08-29
Test Channel:	39	Test Engineer:	Stone Zhang



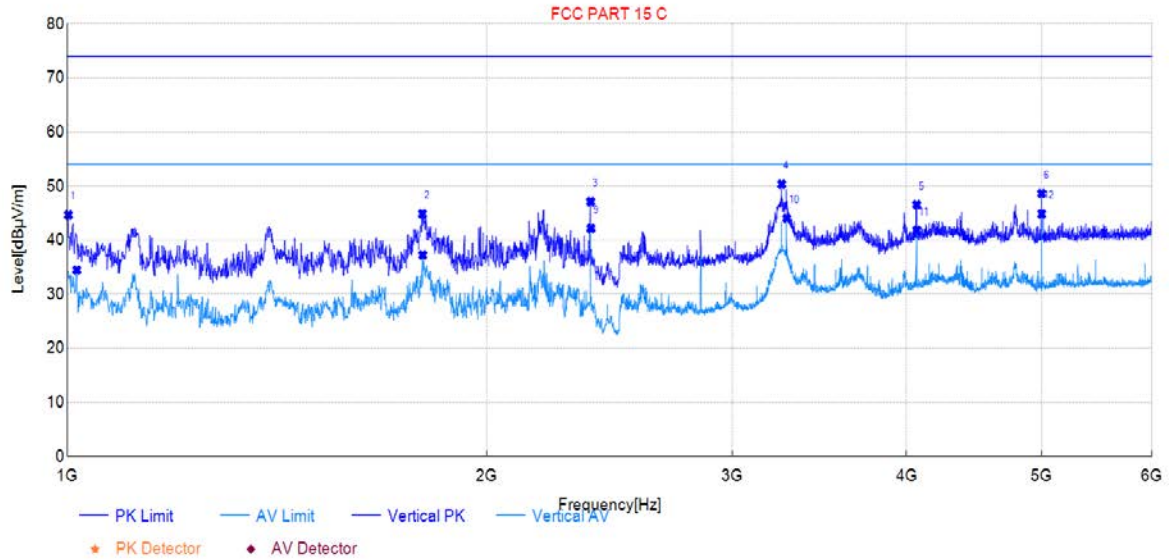
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1	1121.00	65.45	41.70	-23.75	74.00	32.30	150	119	PK	Horizontal	PASS
2	1792.00	61.36	41.81	-19.55	74.00	32.19	150	141	PK	Horizontal	PASS
3	2196.00	58.06	40.83	-17.23	74.00	33.17	150	88	PK	Horizontal	PASS
4	3281.00	57.88	44.66	-13.22	74.00	29.34	150	72	PK	Horizontal	PASS
5	4068.00	51.79	43.55	-8.24	74.00	30.45	150	38	PK	Horizontal	PASS
6	5000.00	51.06	45.04	-6.02	74.00	28.96	150	136	PK	Horizontal	PASS
7	1121.00	55.44	31.69	-23.75	54.00	22.31	150	51	AV	Horizontal	PASS
8	1784.00	51.47	31.85	-19.62	54.00	22.15	150	0	AV	Horizontal	PASS
9	2213.00	48.70	31.54	-17.16	54.00	22.46	150	331	AV	Horizontal	PASS
10	3282.00	52.54	39.34	-13.20	54.00	14.66	150	68	AV	Horizontal	PASS
11	4069.00	45.14	36.90	-8.24	54.00	17.10	150	38	AV	Horizontal	PASS
12	5001.00	46.07	40.05	-6.02	54.00	13.95	150	68	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	DH5	Test Date:	2024-08-29
Test Channel:	39	Test Engineer:	Stone Zhang



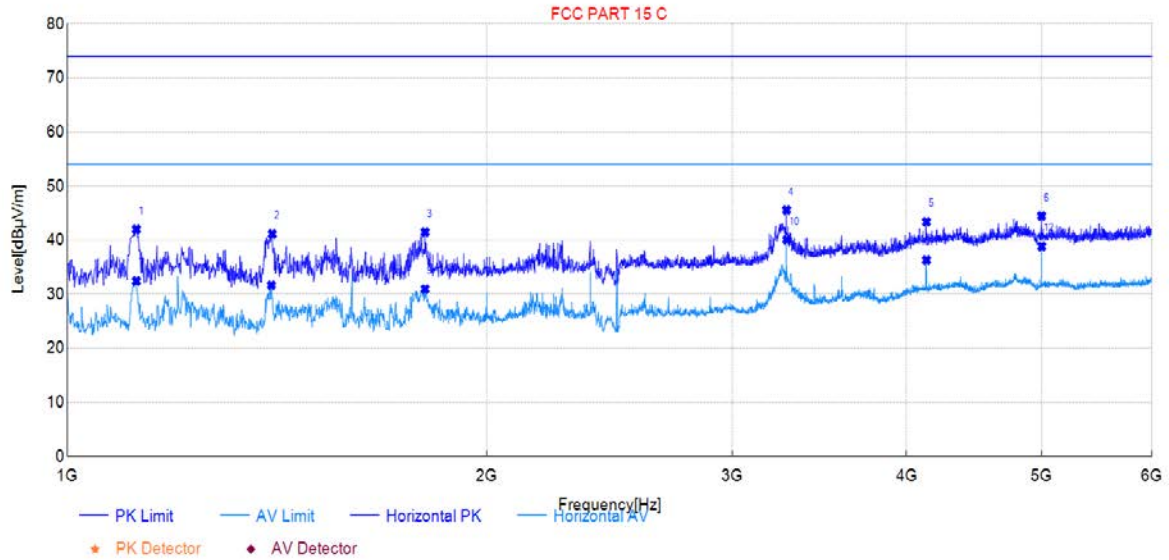
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1	1002.00	67.84	44.69	-23.15	74.00	29.31	150	105	PK	Vertical	PASS
2	1798.00	63.83	44.89	-18.94	74.00	29.11	150	75	PK	Vertical	PASS
3	2374.00	63.70	47.13	-16.57	74.00	26.87	150	172	PK	Vertical	PASS
4	3255.00	63.20	50.37	-12.83	74.00	23.63	150	105	PK	Vertical	PASS
5	4068.00	54.62	46.60	-8.02	74.00	27.40	150	24	PK	Vertical	PASS
6	5000.00	55.37	48.65	-6.72	74.00	25.35	150	118	PK	Vertical	PASS
7	1016.00	57.58	34.47	-23.11	54.00	19.53	150	109	AV	Vertical	PASS
8	1799.00	56.20	37.27	-18.93	54.00	16.73	150	75	AV	Vertical	PASS
9	2375.00	58.75	42.19	-16.56	54.00	11.81	150	168	AV	Vertical	PASS
10	3282.00	56.73	44.07	-12.66	54.00	9.93	150	113	AV	Vertical	PASS
11	4069.00	49.84	41.82	-8.02	54.00	12.18	150	143	AV	Vertical	PASS
12	5001.00	51.59	44.87	-6.72	54.00	9.13	150	118	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	DH5	Test Date:	2024-08-29
Test Channel:	78	Test Engineer:	Stone Zhang



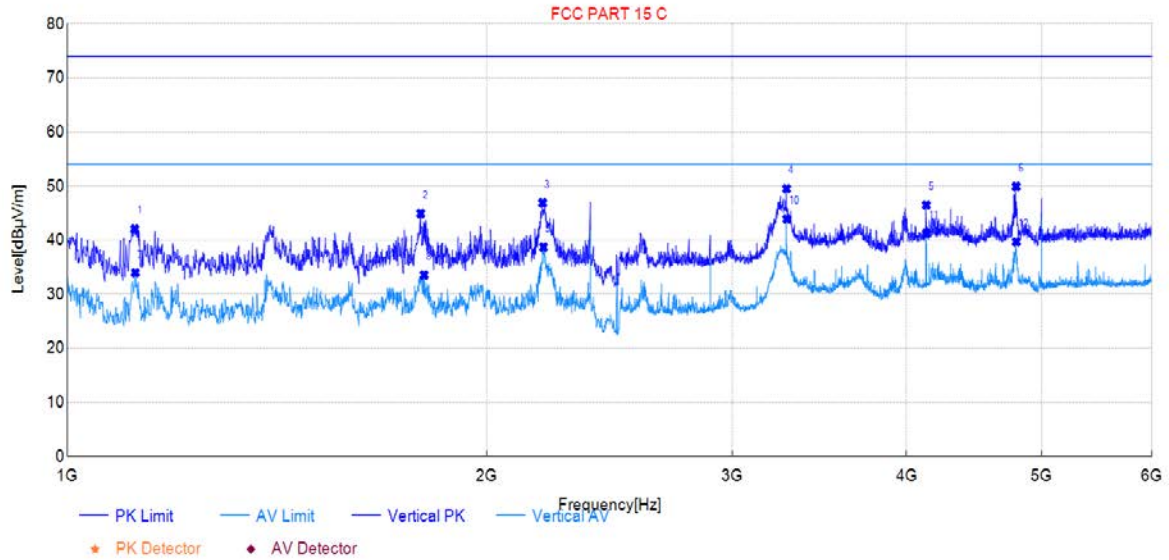
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1121.00	65.78	42.03	-23.75	74.00	31.97	150	145	PK	Horizontal	PASS
2	1403.00	63.32	41.14	-22.18	74.00	32.86	150	126	PK	Horizontal	PASS
3	1806.00	60.94	41.49	-19.45	74.00	32.51	150	1	PK	Horizontal	PASS
4	3281.00	58.82	45.60	-13.22	74.00	28.40	150	66	PK	Horizontal	PASS
5	4134.00	51.48	43.42	-8.06	74.00	30.58	150	54	PK	Horizontal	PASS
6	5000.00	50.51	44.49	-6.02	74.00	29.51	150	66	PK	Horizontal	PASS
7	1121.00	56.20	32.45	-23.75	54.00	21.55	150	163	AV	Horizontal	PASS
8	1401.00	53.88	31.69	-22.19	54.00	22.31	150	131	AV	Horizontal	PASS
9	1806.00	50.40	30.95	-19.45	54.00	23.05	150	1	AV	Horizontal	PASS
10	3282.00	53.27	40.07	-13.20	54.00	13.93	150	66	AV	Horizontal	PASS
11	4134.00	44.40	36.34	-8.06	54.00	17.66	150	44	AV	Horizontal	PASS
12	5001.00	44.86	38.84	-6.02	54.00	15.16	150	100	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	DH5	Test Date:	2024-08-29
Test Channel:	78	Test Engineer:	Stone Zhang



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1118.00	64.83	42.09	-22.74	74.00	31.91	150	113	PK	Vertical	PASS
2	1793.00	63.92	44.94	-18.98	74.00	29.06	150	118	PK	Vertical	PASS
3	2193.00	64.02	46.91	-17.11	74.00	27.09	150	118	PK	Vertical	PASS
4	3281.00	62.23	49.55	-12.68	74.00	24.45	150	113	PK	Vertical	PASS
5	4133.00	54.44	46.52	-7.92	74.00	27.48	150	160	PK	Vertical	PASS
6	4794.00	57.27	49.93	-7.34	74.00	24.07	150	79	PK	Vertical	PASS
7	1119.00	56.69	33.96	-22.73	54.00	20.04	150	138	AV	Vertical	PASS
8	1803.00	52.45	33.55	-18.90	54.00	20.45	150	71	AV	Vertical	PASS
9	2196.00	55.82	38.72	-17.10	54.00	15.28	150	118	AV	Vertical	PASS
10	3282.00	56.61	43.95	-12.66	54.00	10.05	150	105	AV	Vertical	PASS
11	4134.00	49.16	41.24	-7.92	54.00	12.76	150	143	AV	Vertical	PASS
12	4795.00	47.02	39.68	-7.34	54.00	14.32	150	79	AV	Vertical	PASS

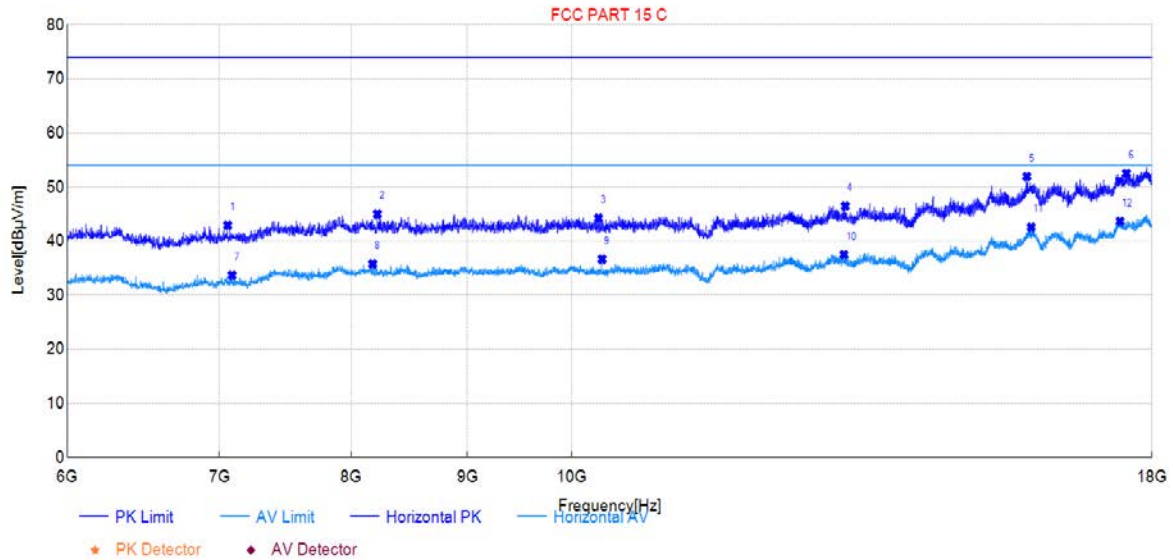
Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

6GHz-18GHz

Test Mode:	DH5	Test Date:	2024-08-29
Test Channel:	00	Test Engineer:	Stone Zhang



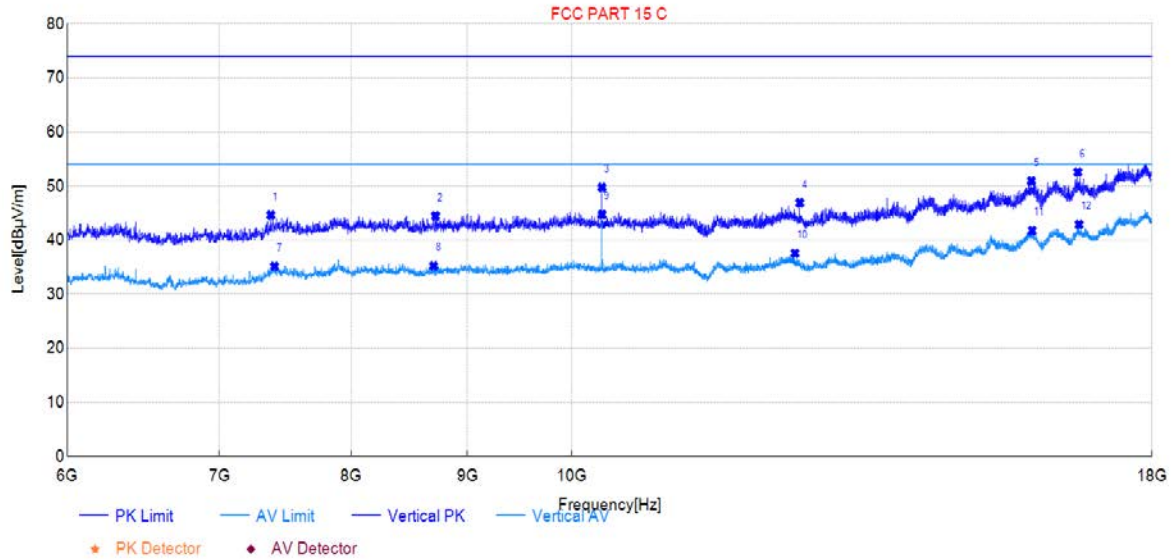
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	7059.00	47.43	42.95	-4.48	74.00	31.05	150	148	PK	Horizontal	PASS
2	8214.00	46.43	45.01	-1.42	74.00	28.99	150	148	PK	Horizontal	PASS
3	10276.50	44.22	44.25	0.03	74.00	29.75	150	134	PK	Horizontal	PASS
4	13194.00	43.11	46.53	3.42	74.00	27.47	150	250	PK	Horizontal	PASS
5	15858.00	42.98	51.96	8.98	74.00	22.04	150	60	PK	Horizontal	PASS
6	17539.50	39.15	52.56	13.41	74.00	21.44	150	27	PK	Horizontal	PASS
7	7090.50	37.97	33.70	-4.27	54.00	20.30	150	0	AV	Horizontal	PASS
8	8175.00	37.14	35.79	-1.35	54.00	18.21	150	293	AV	Horizontal	PASS
9	10314.00	36.62	36.69	0.07	54.00	17.31	150	56	AV	Horizontal	PASS
10	13176.00	34.20	37.51	3.31	54.00	16.49	150	148	AV	Horizontal	PASS
11	15928.50	32.81	42.59	9.78	54.00	11.41	150	202	AV	Horizontal	PASS
12	17427.00	30.92	43.69	12.77	54.00	10.31	150	99	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	DH5	Test Date:	2024-08-29
Test Channel:	00	Test Engineer:	Stone Zhang



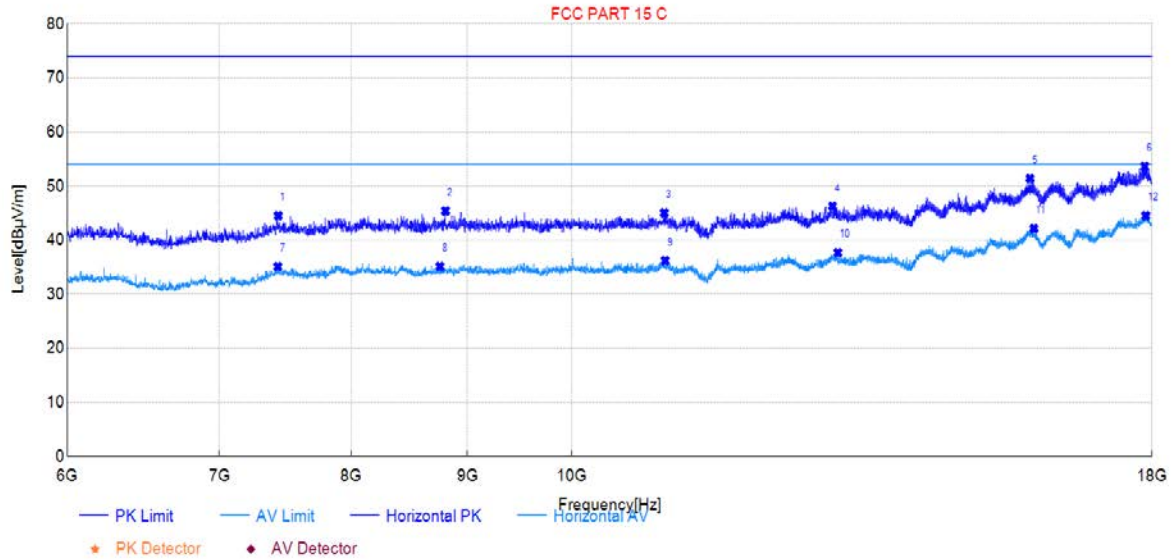
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	7374.00	47.59	44.66	-2.93	74.00	29.34	150	245	PK	Vertical	PASS
2	8712.00	45.60	44.49	-1.11	74.00	29.51	150	360	PK	Vertical	PASS
3	10312.50	49.33	49.77	0.44	74.00	24.23	150	82	PK	Vertical	PASS
4	12600.00	44.67	46.92	2.25	74.00	27.08	150	125	PK	Vertical	PASS
5	15931.50	41.67	50.97	9.30	74.00	23.03	150	264	PK	Vertical	PASS
6	16698.00	42.33	52.63	10.30	74.00	21.37	150	226	PK	Vertical	PASS
7	7401.00	37.94	35.21	-2.73	54.00	18.79	150	202	AV	Vertical	PASS
8	8695.50	36.39	35.27	-1.12	54.00	18.73	150	91	AV	Vertical	PASS
9	10314.00	44.32	44.77	0.45	54.00	9.23	150	86	AV	Vertical	PASS
10	12538.50	35.16	37.59	2.43	54.00	16.41	150	82	AV	Vertical	PASS
11	15943.50	32.48	41.77	9.29	54.00	12.23	150	77	AV	Vertical	PASS
12	16719.00	32.72	42.92	10.20	54.00	11.08	150	240	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	DH5	Test Date:	2024-08-29
Test Channel:	39	Test Engineer:	Stone Zhang



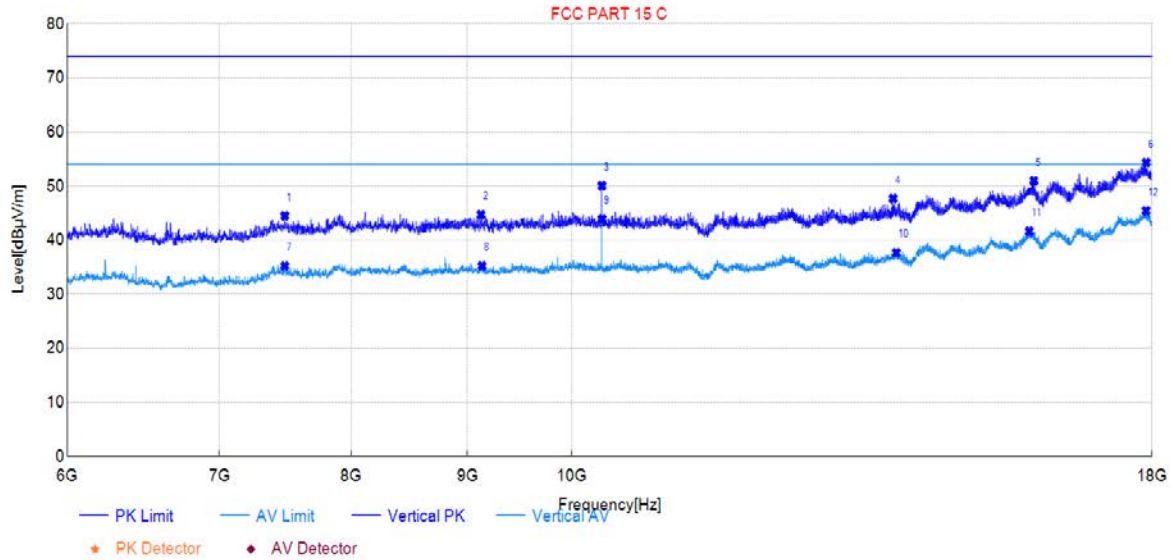
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	7429.50	47.34	44.53	-2.81	74.00	29.47	150	235	PK	Horizontal	PASS
2	8800.50	46.45	45.41	-1.04	74.00	28.59	150	200	PK	Horizontal	PASS
3	10983.00	43.80	45.05	1.25	74.00	28.95	150	1	PK	Horizontal	PASS
4	13024.50	43.52	46.29	2.77	74.00	27.71	150	74	PK	Horizontal	PASS
5	15907.50	41.63	51.41	9.78	74.00	22.59	150	342	PK	Horizontal	PASS
6	17868.00	39.39	53.64	14.25	74.00	20.36	150	103	PK	Horizontal	PASS
7	7426.50	37.95	35.15	-2.80	54.00	18.85	150	2	AV	Horizontal	PASS
8	8751.00	36.27	35.19	-1.08	54.00	18.81	150	113	AV	Horizontal	PASS
9	10993.50	34.92	36.21	1.29	54.00	17.79	150	98	AV	Horizontal	PASS
10	13095.00	34.84	37.72	2.88	54.00	16.28	150	245	AV	Horizontal	PASS
11	15970.50	32.38	42.16	9.78	54.00	11.84	150	327	AV	Horizontal	PASS
12	17887.50	30.18	44.53	14.35	54.00	9.47	150	133	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	DH5	Test Date:	2024-08-29
Test Channel:	39	Test Engineer:	Stone Zhang



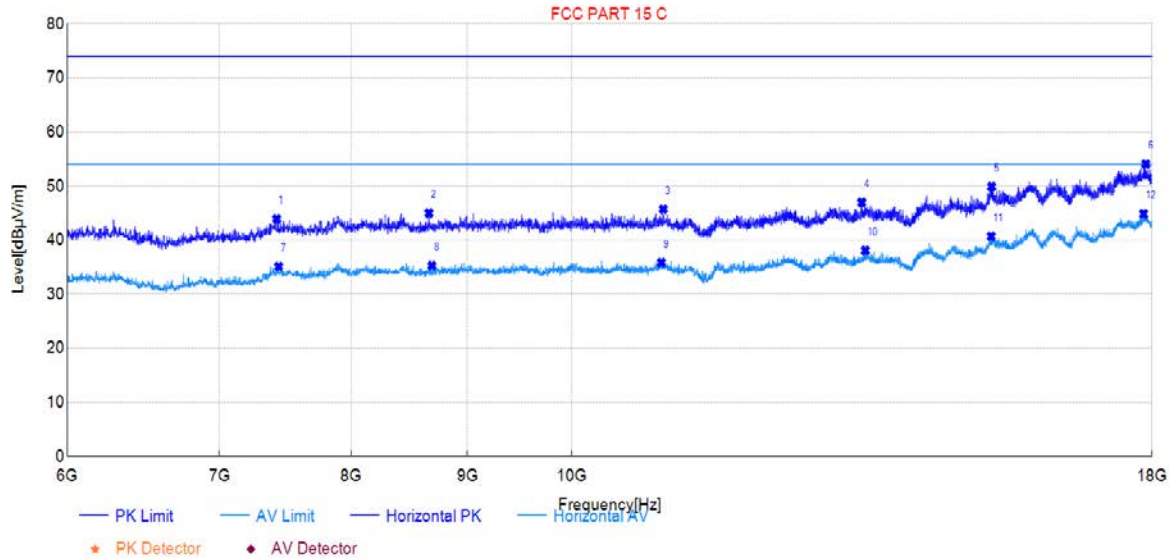
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	7479.00	47.46	44.51	-2.95	74.00	29.49	150	191	PK	Vertical	PASS
2	9123.00	45.59	44.72	-0.87	74.00	29.28	150	196	PK	Vertical	PASS
3	10312.50	49.65	50.09	0.44	74.00	23.91	150	68	PK	Vertical	PASS
4	13848.00	43.93	47.72	3.79	74.00	26.28	150	326	PK	Vertical	PASS
5	15970.50	41.70	50.99	9.29	74.00	23.01	150	79	PK	Vertical	PASS
6	17895.00	39.41	54.38	14.97	74.00	19.62	150	89	PK	Vertical	PASS
7	7479.00	38.22	35.27	-2.95	54.00	18.73	150	89	AV	Vertical	PASS
8	9132.00	36.18	35.28	-0.90	54.00	18.72	150	4	AV	Vertical	PASS
9	10314.00	43.51	43.96	0.45	54.00	10.04	150	83	AV	Vertical	PASS
10	13894.50	33.64	37.71	4.07	54.00	16.29	150	130	AV	Vertical	PASS
11	15895.50	32.44	41.66	9.22	54.00	12.34	150	94	AV	Vertical	PASS
12	17893.50	30.49	45.45	14.96	54.00	8.55	150	175	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	DH5	Test Date:	2024-08-29
Test Channel:	78	Test Engineer:	Stone Zhang



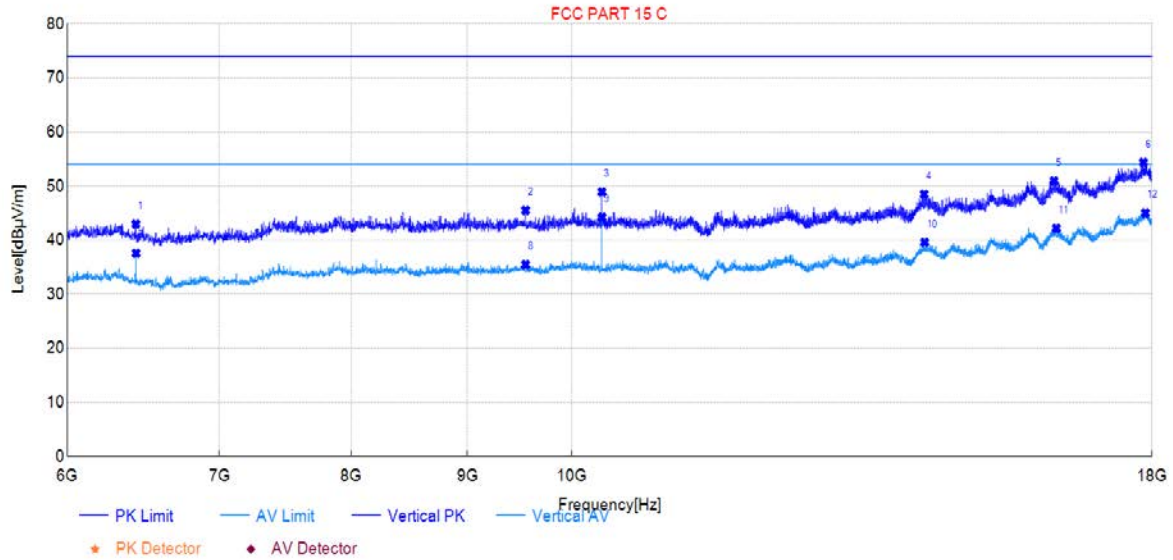
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	7417.50	46.76	43.98	-2.78	74.00	30.02	150	336	PK	Horizontal	PASS
2	8655.00	46.22	45.02	-1.20	74.00	28.98	150	170	PK	Horizontal	PASS
3	10972.50	44.52	45.73	1.21	74.00	28.27	150	0	PK	Horizontal	PASS
4	13416.00	44.05	47.00	2.95	74.00	27.00	150	184	PK	Horizontal	PASS
5	15301.50	42.63	49.91	7.28	74.00	24.09	150	301	PK	Horizontal	PASS
6	17887.50	39.75	54.10	14.35	74.00	19.90	150	189	PK	Horizontal	PASS
7	7432.50	37.99	35.17	-2.82	54.00	18.83	150	205	AV	Horizontal	PASS
8	8680.50	36.46	35.31	-1.15	54.00	18.69	150	116	AV	Horizontal	PASS
9	10951.50	34.72	35.86	1.14	54.00	18.14	150	111	AV	Horizontal	PASS
10	13464.00	34.92	38.09	3.17	54.00	15.91	150	38	AV	Horizontal	PASS
11	15295.50	33.54	40.75	7.21	54.00	13.25	150	331	AV	Horizontal	PASS
12	17847.00	30.74	44.88	14.14	54.00	9.12	150	230	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	DH5	Test Date:	2024-08-29
Test Channel:	78	Test Engineer:	Stone Zhang



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	6432.00	47.92	42.99	-4.93	74.00	31.01	150	136	PK	Vertical	PASS
2	9544.50	45.56	45.54	-0.02	74.00	28.46	150	257	PK	Vertical	PASS
3	10312.50	48.48	48.92	0.44	74.00	25.08	150	73	PK	Vertical	PASS
4	14290.50	43.26	48.49	5.23	74.00	25.51	150	360	PK	Vertical	PASS
5	16300.50	41.67	50.96	9.29	74.00	23.04	150	281	PK	Vertical	PASS
6	17844.00	39.71	54.41	14.70	74.00	19.59	150	180	PK	Vertical	PASS
7	6433.50	42.52	37.59	-4.93	54.00	16.41	150	136	AV	Vertical	PASS
8	9544.50	35.50	35.48	-0.02	54.00	18.52	150	296	AV	Vertical	PASS
9	10314.00	43.79	44.24	0.45	54.00	9.76	150	82	AV	Vertical	PASS
10	14298.00	34.29	39.59	5.30	54.00	14.41	150	155	AV	Vertical	PASS
11	16338.00	32.73	42.18	9.45	54.00	11.82	150	204	AV	Vertical	PASS
12	17881.50	30.13	45.03	14.90	54.00	8.97	150	0	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

7.10. Radiated Restricted Band Edge Measurement

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.25 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41	--	--	--

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR 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

7.10.1.Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

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

7.10.2.Test Setting

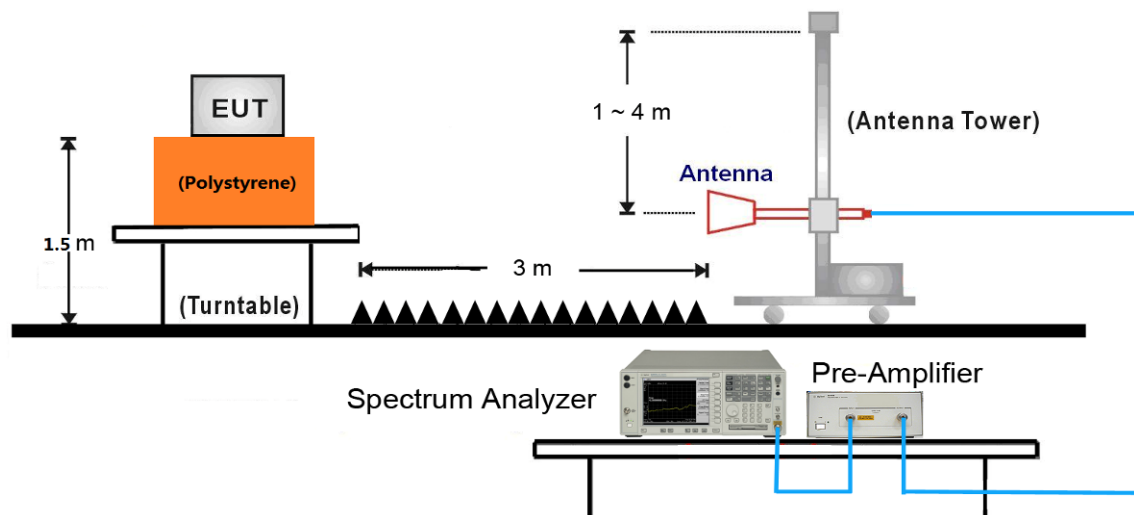
Peak Field Strength Measurements

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)

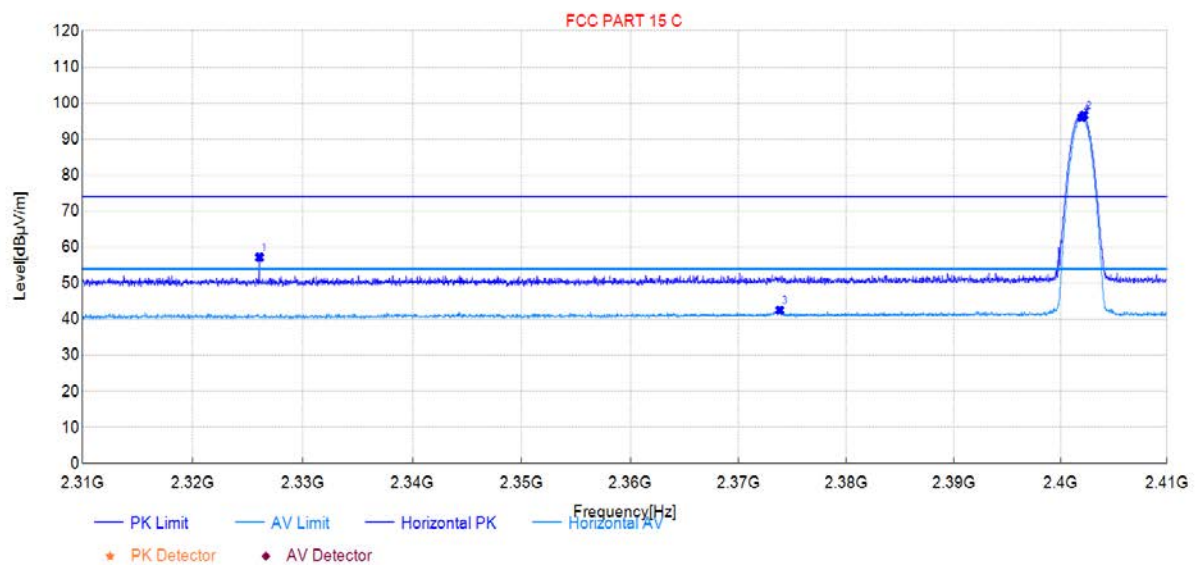
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10 Hz.
If the EUT duty cycle is $< 98\%$, set VBW $\geq 1/T$. T is the minimum transmission duration.
4.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

7.10.3.Test Setup



7.10.4.Test Result

Project Information			
EUT:	LED Playback Control Processor	Model:	TU40 Pro
Test Date:	2024-08-29	Voltage:	AC 120V 60Hz
Environment:	Temp: 27.1°C; Humi:51%	Engineer:	Stone Zhang
Remark:	Transmit by DH5 at Channel 2402MHz		

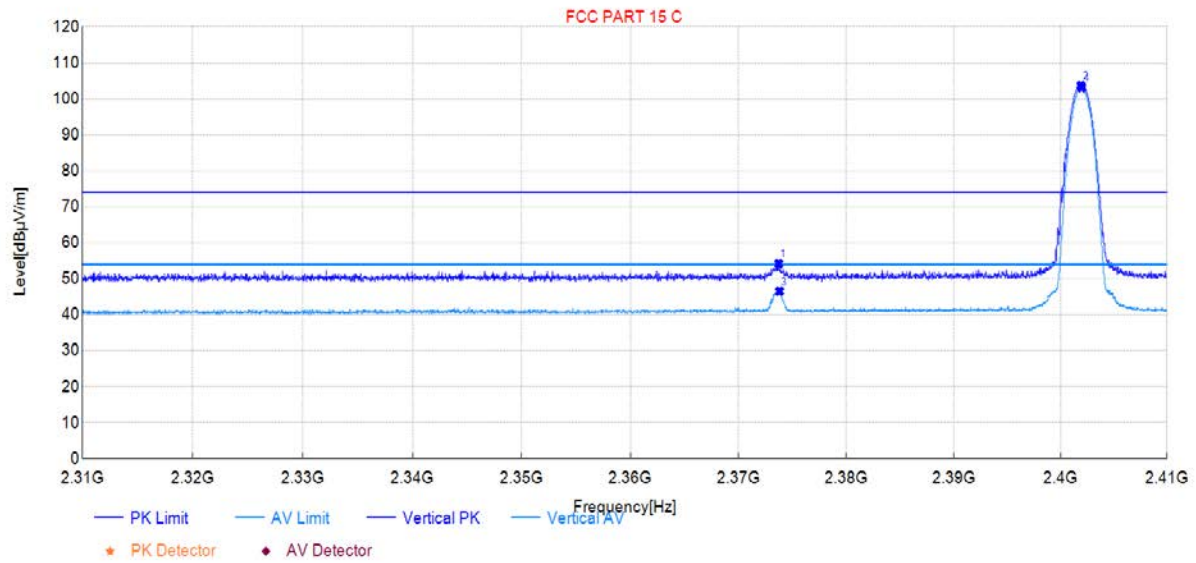


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2326.05	21.44	57.21	35.77	74.00	16.79	150	0	PK	Horizontal	PASS
2	2402.20	60.52	96.68	36.16	/	/	150	56	PK	Horizontal	PASS
3	2373.82	6.48	42.50	36.02	54.00	11.50	150	93	AV	Horizontal	PASS
4	2402.00	59.88	96.03	36.15	/	/	150	56	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level



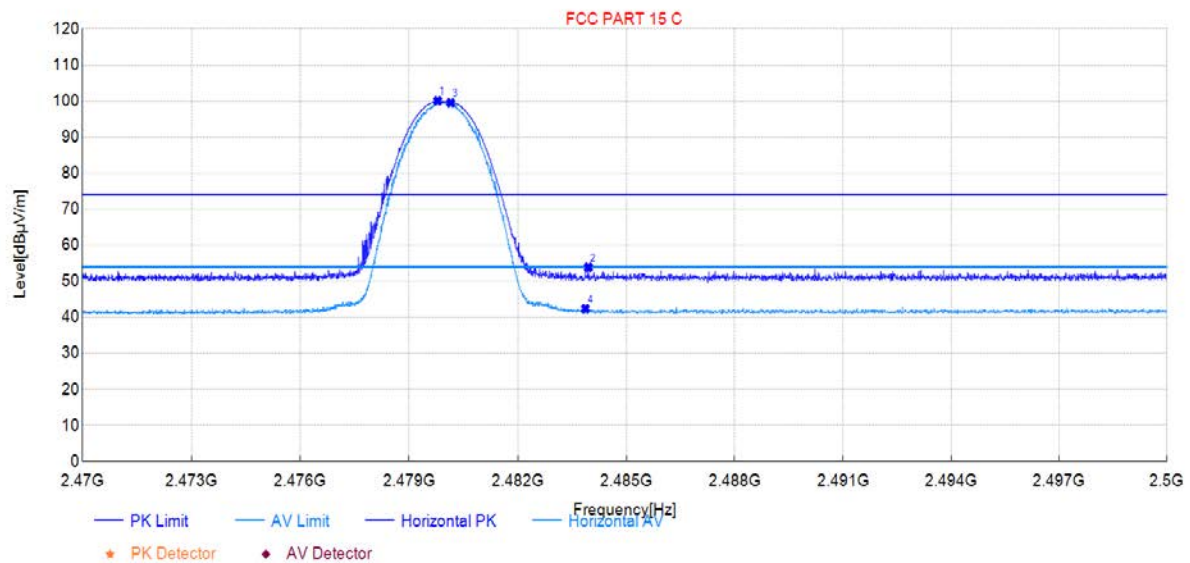
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2373.72	18.29	54.18	35.89	74.00	19.82	150	69	PK	Vertical	PASS
2	2401.92	67.74	103.73	35.99	/	/	150	171	PK	Vertical	PASS
3	2373.79	10.65	46.54	35.89	54.00	7.46	150	162	AV	Vertical	PASS
4	2401.97	67.18	103.17	35.99	/	/	150	171	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Project Information			
EUT:	LED Playback Control Processor	Model:	TU40 Pro
Test Date:	2024-08-29	Voltage:	AC 120V 60Hz
Environment:	Temp: 27.1°C; Humi:51%	Engineer:	Stone Zhang
Remark:	Transmit by DH5 at Channel 2480MHz		

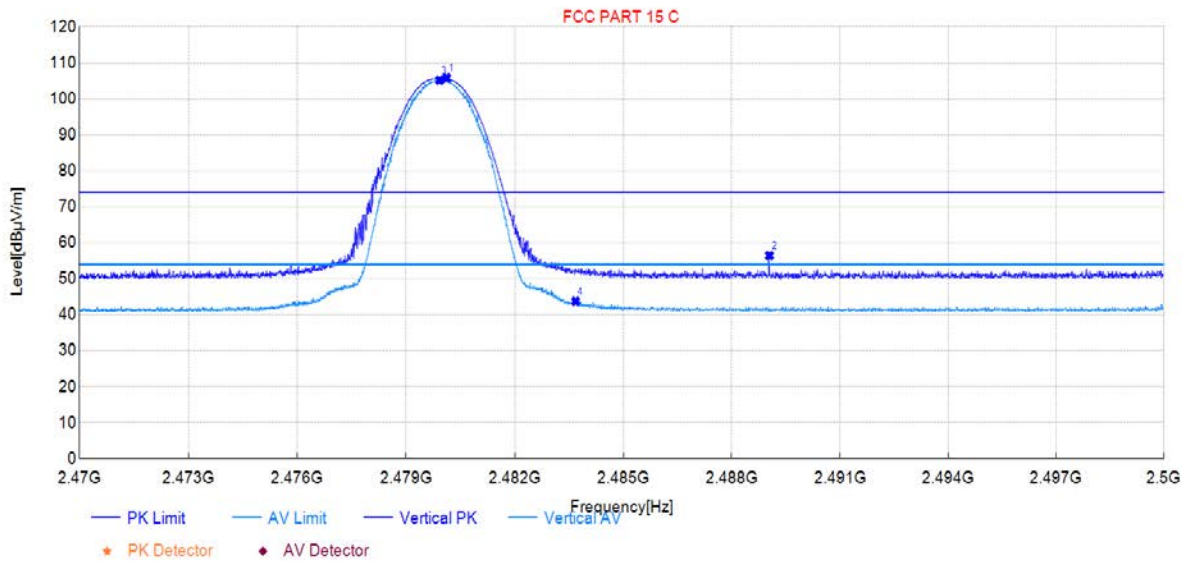


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2479.79	63.73	100.08	36.35	/	/	150	40	PK	Horizontal	PASS
2	2483.95	17.52	53.88	36.36	74.00	20.12	150	0	PK	Horizontal	PASS
3	2480.15	63.17	99.52	36.35	/	/	150	40	AV	Horizontal	PASS
4	2483.87	6.01	42.37	36.36	54.00	11.63	150	6	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level



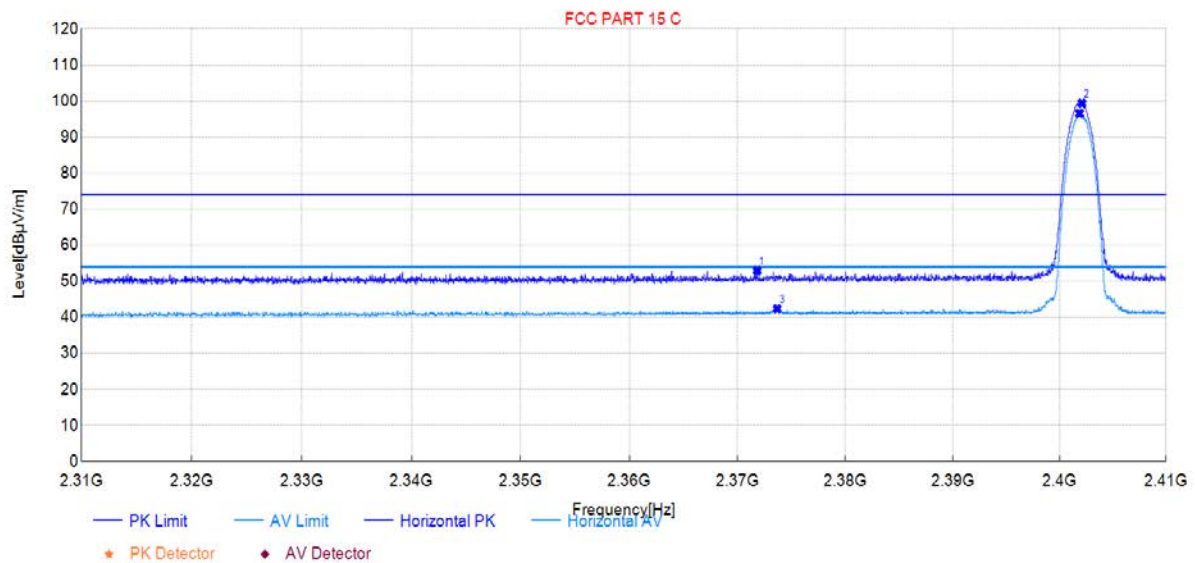
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2480.12	69.73	105.81	36.08	/	/	150	170	PK	Vertical	PASS
2	2489.05	20.36	56.45	36.09	74.00	17.55	150	337	PK	Vertical	PASS
3	2479.92	69.11	105.19	36.08	/	/	150	170	AV	Vertical	PASS
4	2483.68	7.67	43.75	36.08	54.00	10.25	150	268	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Project Information			
EUT:	LED Playback Control Processor	Model:	TU40 Pro
Test Date:	2024-08-29	Voltage:	AC 120V 60Hz
Environment:	Temp: 27.1°C; Humi:51%	Engineer:	Stone Zhang
Remark:	Transmit by 2DH5 at Channel 2402MHz		

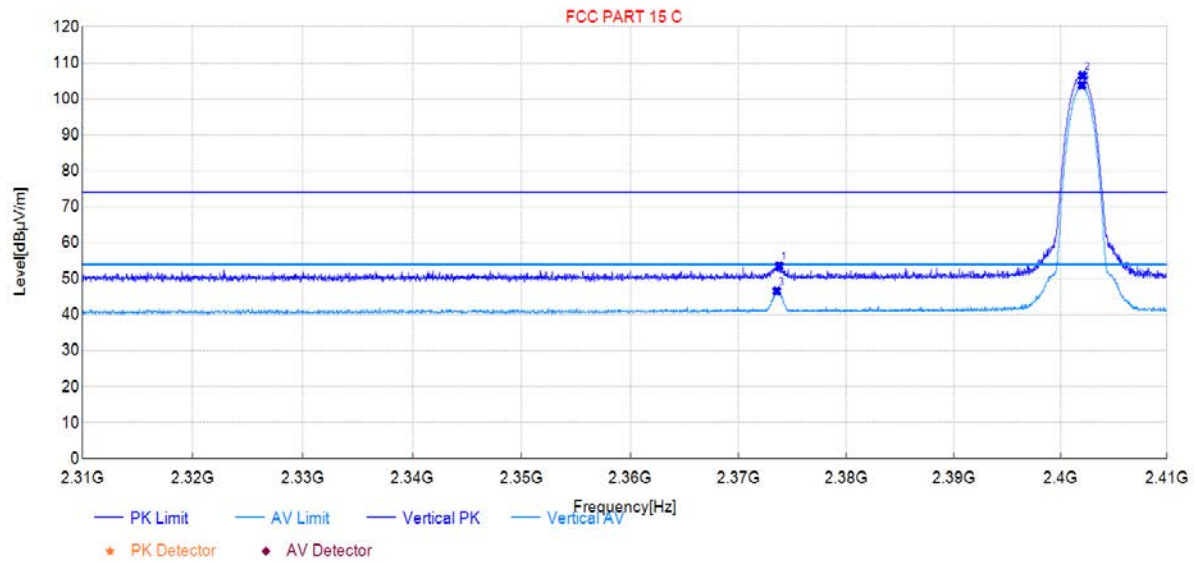


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2371.82	16.95	52.95	36.00	74.00	21.05	150	206	PK	Horizontal	PASS
2	2402.10	63.23	99.39	36.16	/	/	150	56	PK	Horizontal	PASS
3	2373.67	6.32	42.34	36.02	54.00	11.66	150	97	AV	Horizontal	PASS
4	2401.87	60.43	96.58	36.15	/	/	150	60	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level



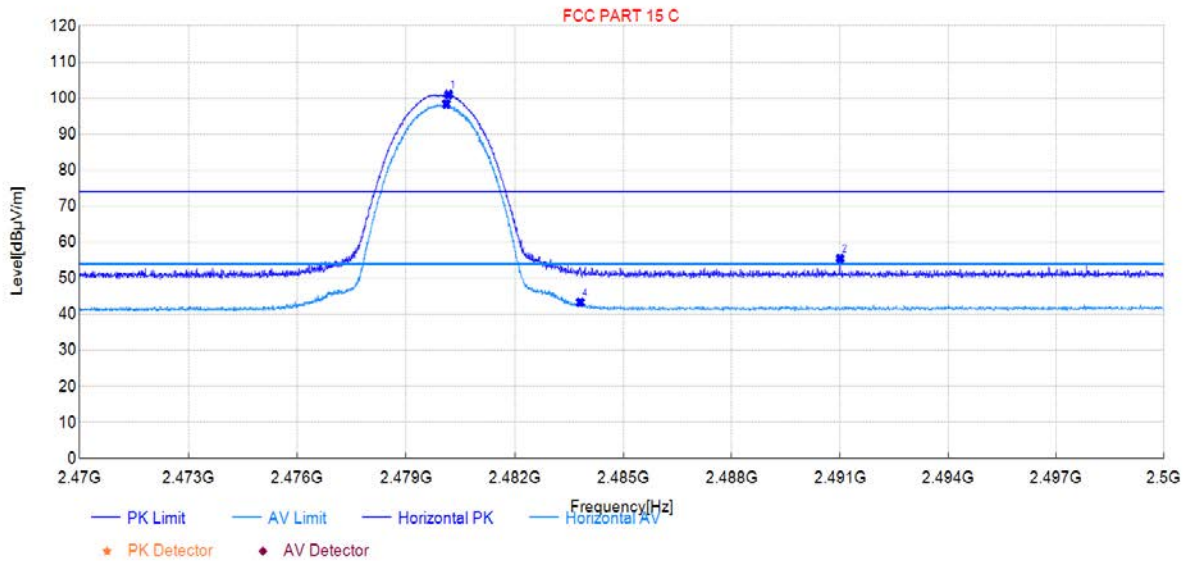
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2373.77	17.64	53.53	35.89	74.00	20.47	150	162	PK	Vertical	PASS
2	2402.05	70.47	106.46	35.99	/	/	150	24	PK	Vertical	PASS
3	2373.54	10.72	46.61	35.89	54.00	7.39	150	162	AV	Vertical	PASS
4	2402.00	67.81	103.80	35.99	/	/	150	171	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Project Information			
EUT:	LED Playback Control	Model:	TU40 Pro
Test Date:	2024-08-29	Voltage:	AC 120V 60Hz
Environment:	Temp: 27.1°C; Humi:51%	Engineer:	Stone Zhang
Remark:	Transmit by 2DH5 at Channel 2480MHz		

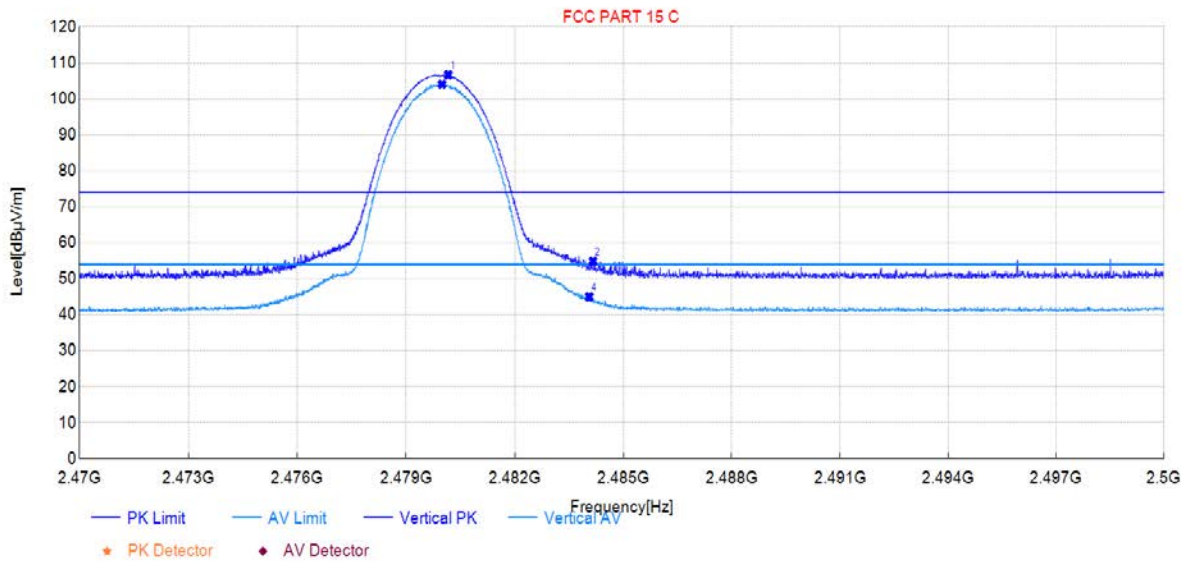


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2480.17	64.59	100.94	36.35	/	/	150	41	PK	Horizontal	PASS
2	2491.01	19.07	55.45	36.38	74.00	18.55	150	189	PK	Horizontal	PASS
3	2480.11	62.02	98.37	36.35	/	/	150	41	AV	Horizontal	PASS
4	2483.81	7.00	43.36	36.36	54.00	10.64	150	41	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level



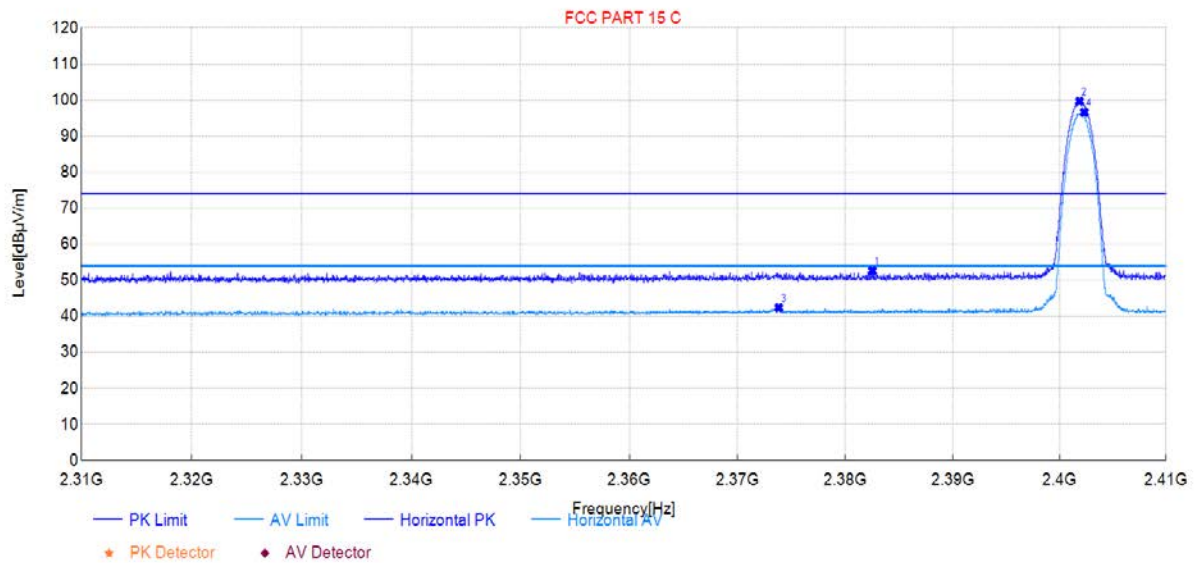
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2480.17	70.60	106.68	36.08	/	/	150	172	PK	Vertical	PASS
2	2484.16	18.78	54.86	36.08	74.00	19.14	150	67	PK	Vertical	PASS
3	2479.99	67.97	104.05	36.08	/	/	150	172	AV	Vertical	PASS
4	2484.06	8.89	44.97	36.08	54.00	9.03	150	167	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Project Information			
EUT:	LED Playback Control Processor	Model:	TU40 Pro
Test Date:	2024-08-29	Voltage:	AC 120V 60Hz
Environment:	Temp: 27.1°C; Humi:51%	Engineer:	Stone Zhang
Remark:	Transmit by 3DH5 at Channel 2402MHz		

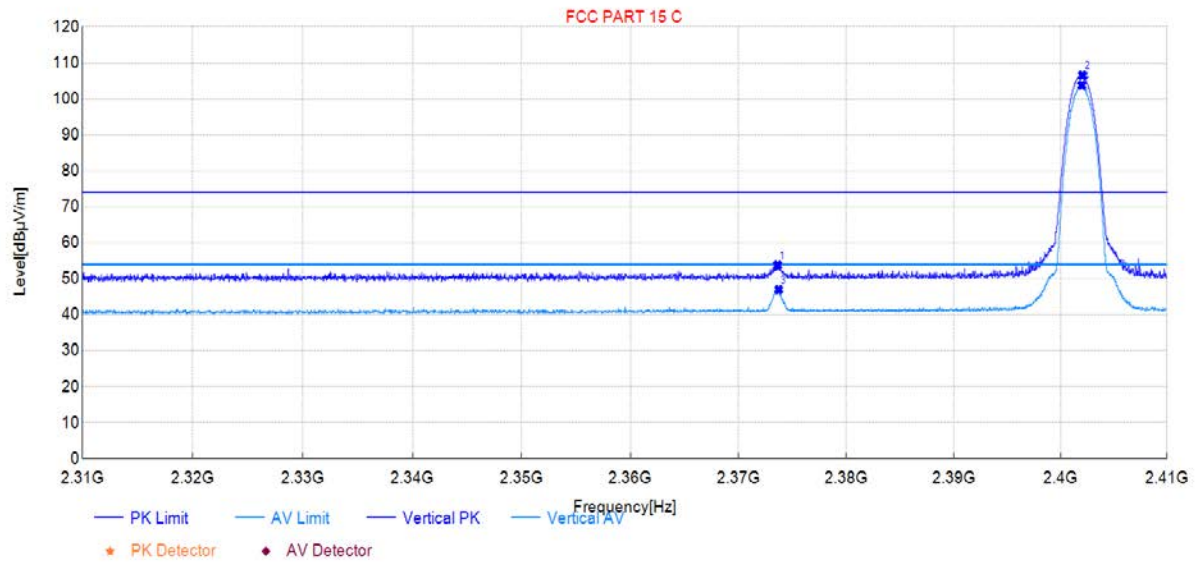


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2382.52	16.63	52.69	36.06	74.00	21.31	150	56	PK	Horizontal	PASS
2	2401.87	63.48	99.63	36.15	/	/	150	56	PK	Horizontal	PASS
3	2373.82	6.33	42.35	36.02	54.00	11.65	150	332	AV	Horizontal	PASS
4	2402.32	60.45	96.61	36.16	/	/	150	56	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level



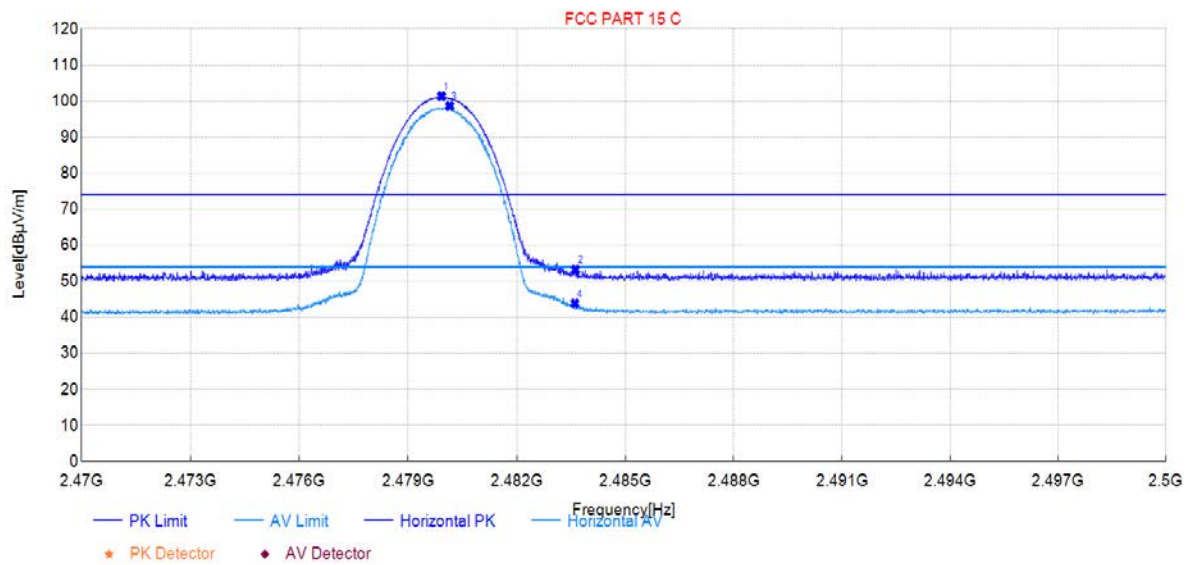
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2373.62	17.90	53.79	35.89	74.00	20.21	150	158	PK	Vertical	PASS
2	2402.05	70.55	106.54	35.99	/	/	150	23	PK	Vertical	PASS
3	2373.72	11.08	46.97	35.89	54.00	7.03	150	162	AV	Vertical	PASS
4	2402.00	67.78	103.77	35.99	/	/	150	170	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Project Information			
EUT:	LED Playback Control Processor	Model:	TU40 Pro
Test Date:	2024-08-29	Voltage:	AC 120V 60Hz
Environment:	Temp: 27.1°C; Humi:51%	Engineer:	Stone Zhang
Remark:	Transmit by 3DH5 at Channel 2480MHz		

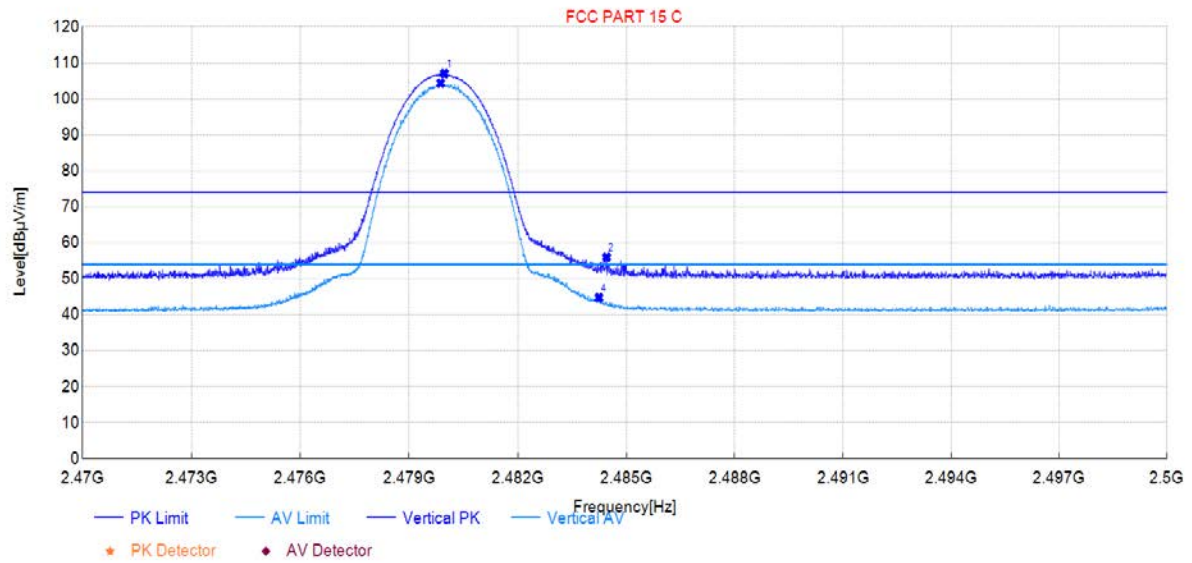


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2479.92	65.00	101.35	36.35	/	/	150	41	PK	Horizontal	PASS
2	2483.62	16.84	53.20	36.36	74.00	20.80	150	37	PK	Horizontal	PASS
3	2480.15	62.31	98.66	36.35	/	/	150	41	AV	Horizontal	PASS
4	2483.61	7.48	43.84	36.36	54.00	10.16	150	44	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2479.98	70.98	107.06	36.08	/	/	150	169	PK	Vertical	PASS
2	2484.46	19.92	56.00	36.08	74.00	18.00	150	161	PK	Vertical	PASS
3	2479.87	68.26	104.34	36.08	/	/	150	169	AV	Vertical	PASS
4	2484.25	8.67	44.75	36.08	54.00	9.25	150	169	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

7.11. AC Conducted Emissions Measurement

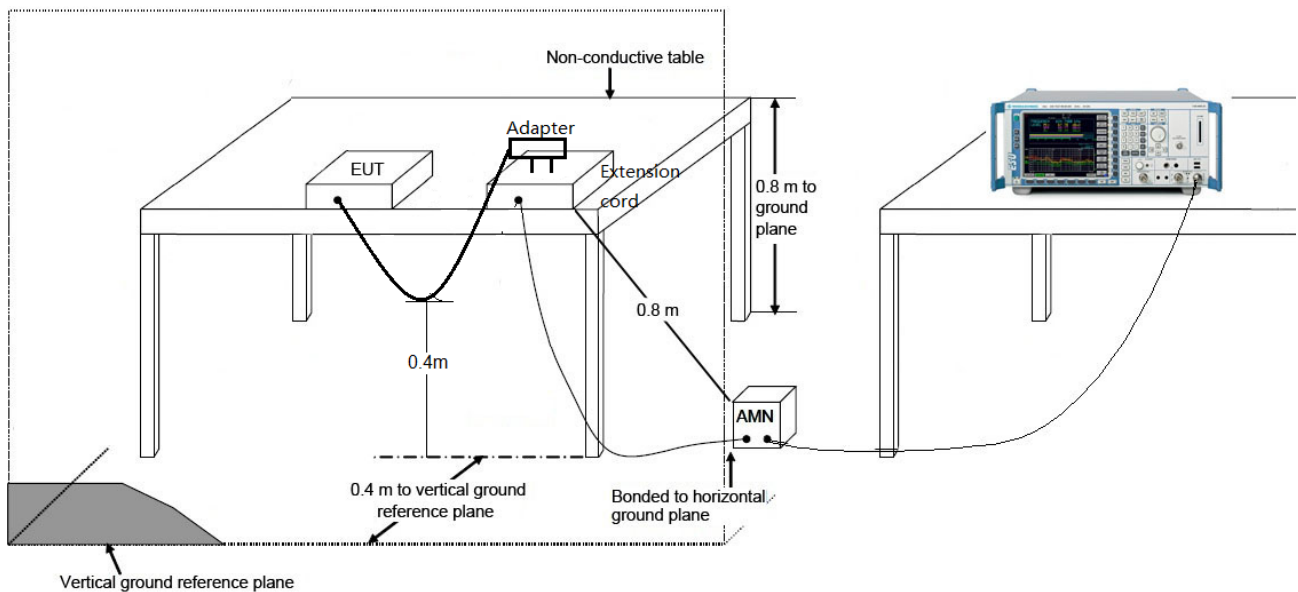
7.11.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dBμV)	Average (dBμV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

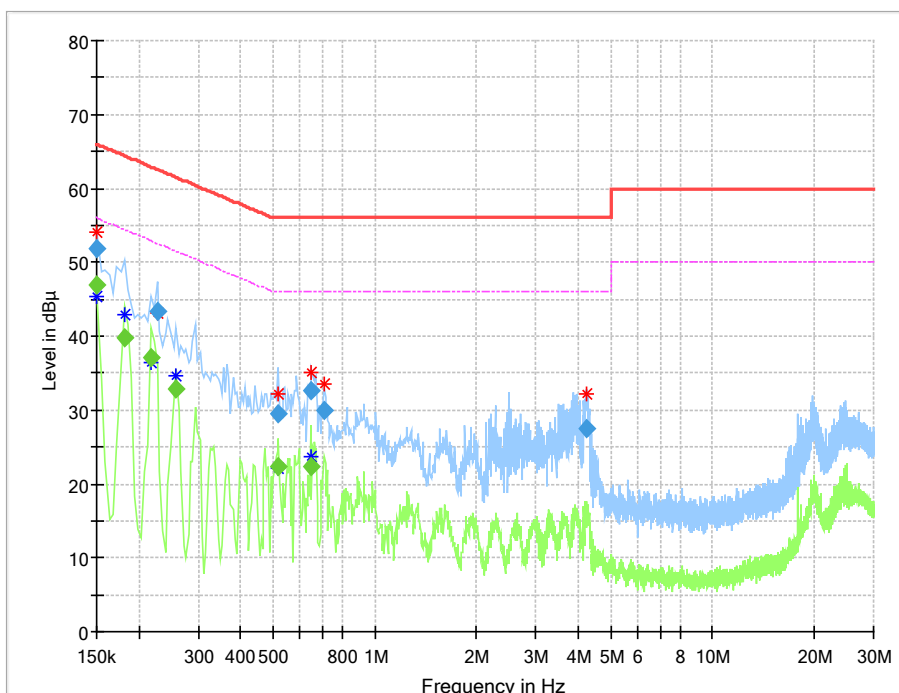
7.11.2. Test Setup



7.11.3.Test Result

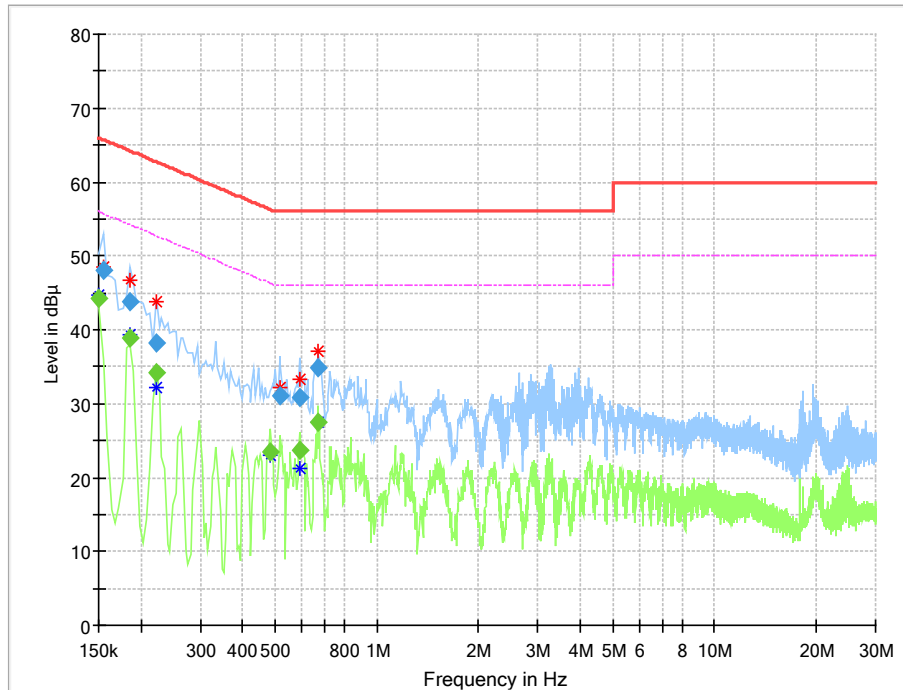
The worst case of Conducted Emissions:

EUT:	LED Playback Control Processor	Polarity:	LINE
Model:	TU40 Pro	Power Supply:	/
Mode:	/	Voltage:	120V/60Hz
Environment:	Temp: 24℃ ; Humi:52%	Engineer:	Stone Zhang
Remark:	Transmit at DH5 Channel 00		



Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.150000	---	46.87	56.00	9.13	100.0	9.000	L1	ON	9.8
0.150000	51.80	---	66.00	14.20	100.0	9.000	L1	ON	9.8
0.181500	---	39.70	54.42	14.72	100.0	9.000	L1	ON	9.8
0.217500	---	36.98	52.91	15.93	100.0	9.000	L1	ON	9.8
0.226500	43.27	---	62.58	19.31	100.0	9.000	L1	ON	9.8
0.258000	---	32.84	51.50	18.66	100.0	9.000	L1	ON	9.8
0.514500	29.53	---	56.00	26.47	100.0	9.000	L1	ON	9.8
0.519000	---	22.41	46.00	23.59	100.0	9.000	L1	ON	9.8
0.645000	---	22.35	46.00	23.65	100.0	9.000	L1	ON	9.8
0.649500	32.58	---	56.00	23.42	100.0	9.000	L1	ON	9.8
0.708000	30.03	---	56.00	25.97	100.0	9.000	L1	ON	9.8
4.236000	27.45	---	56.00	28.55	100.0	9.000	L1	ON	9.8

EUT:	LED Playback Control Processor	Polarity:	NEUTRAL
Model:	TU40 Pro	Power Supply:	/
Mode:	/	Voltage:	120V/60Hz
Environment:	Temp: 24°C ; Humi:52%	Engineer:	Stone Zhang
Remark:	Transmit at DH5 Channel 00		



Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.150000	---	44.20	56.00	11.80	100.0	9.000	N	ON	9.8
0.154500	48.02	---	65.75	17.74	100.0	9.000	N	ON	9.8
0.186000	---	38.95	54.21	15.27	100.0	9.000	N	ON	9.8
0.186000	43.70	---	64.21	20.51	100.0	9.000	N	ON	9.8
0.222000	---	34.14	52.74	18.61	100.0	9.000	N	ON	9.8
0.222000	38.20	---	62.74	24.54	100.0	9.000	N	ON	9.8
0.483000	---	23.36	46.29	22.93	100.0	9.000	N	ON	9.8
0.514500	31.08	---	56.00	24.92	100.0	9.000	N	ON	9.8
0.591000	30.79	---	56.00	25.21	100.0	9.000	N	ON	9.8
0.591000	---	23.77	46.00	22.23	100.0	9.000	N	ON	9.8
0.667500	---	27.48	46.00	18.52	100.0	9.000	N	ON	9.8
0.672000	34.91	---	56.00	21.09	100.0	9.000	N	ON	9.8

8. CONCLUSION

The data collected relate only the item(s) tested and show that the **LED Playback Control Processor** is in compliance with Part 15C of the FCC Rules.

_____ The End _____