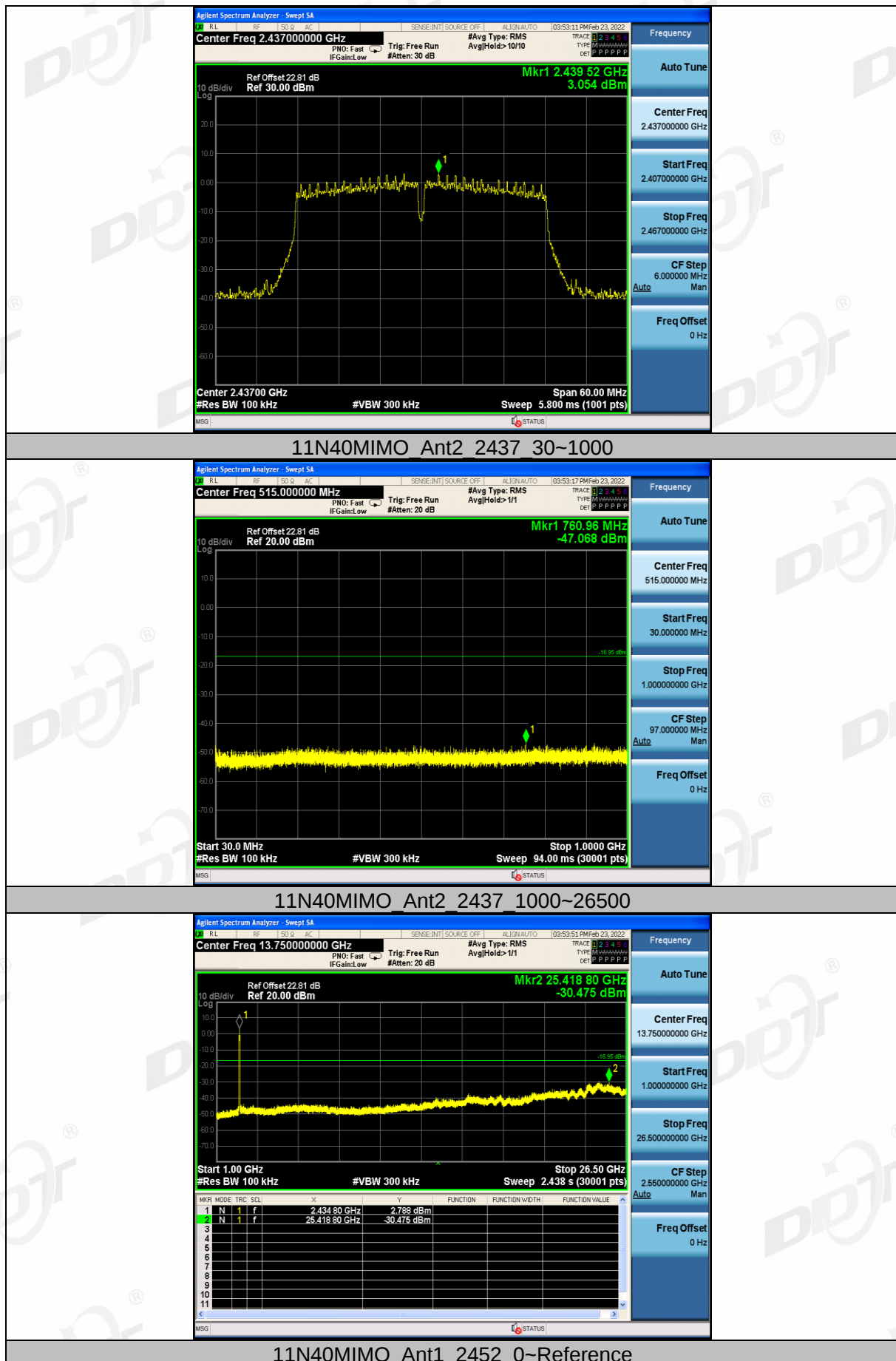
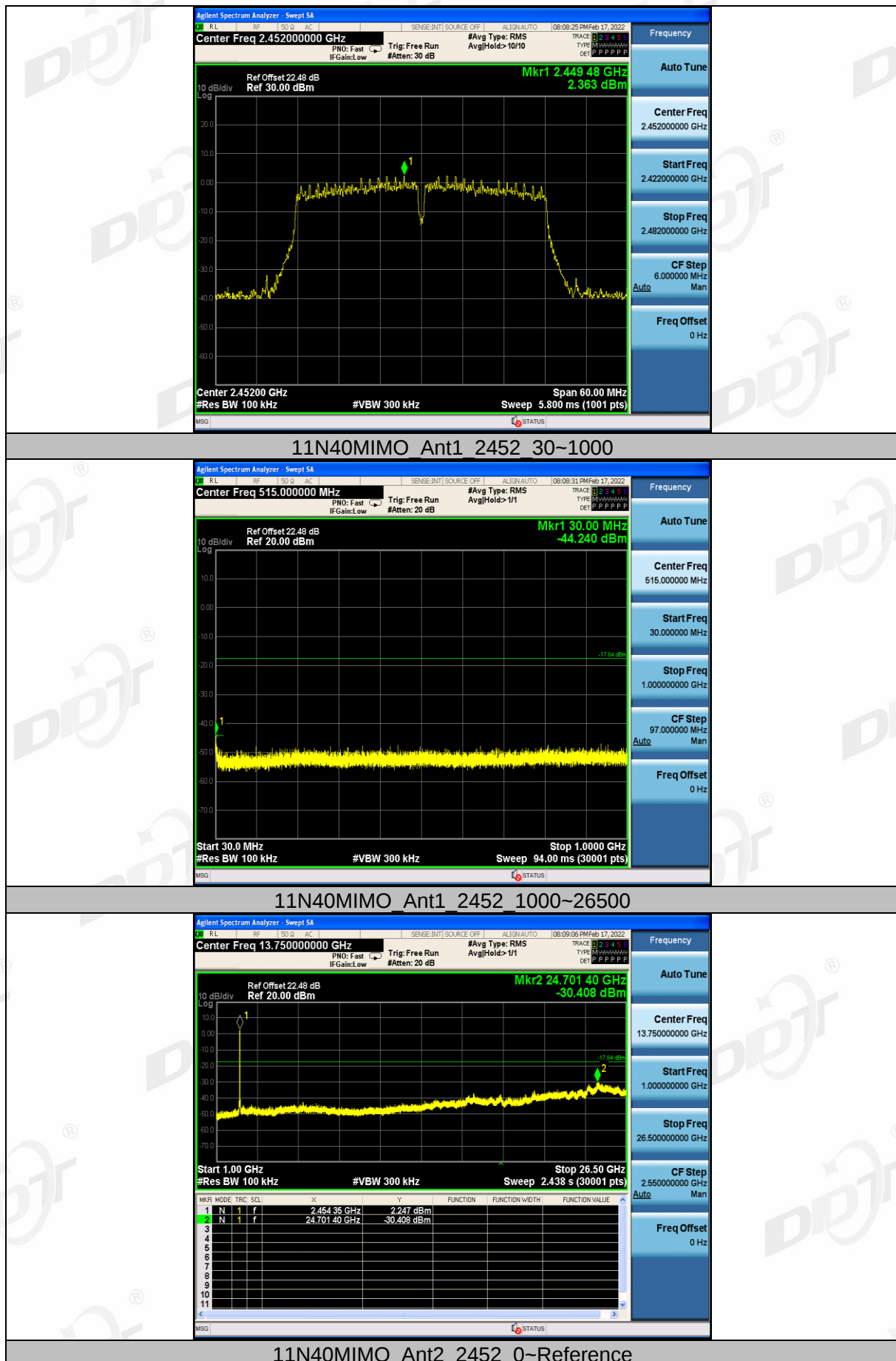
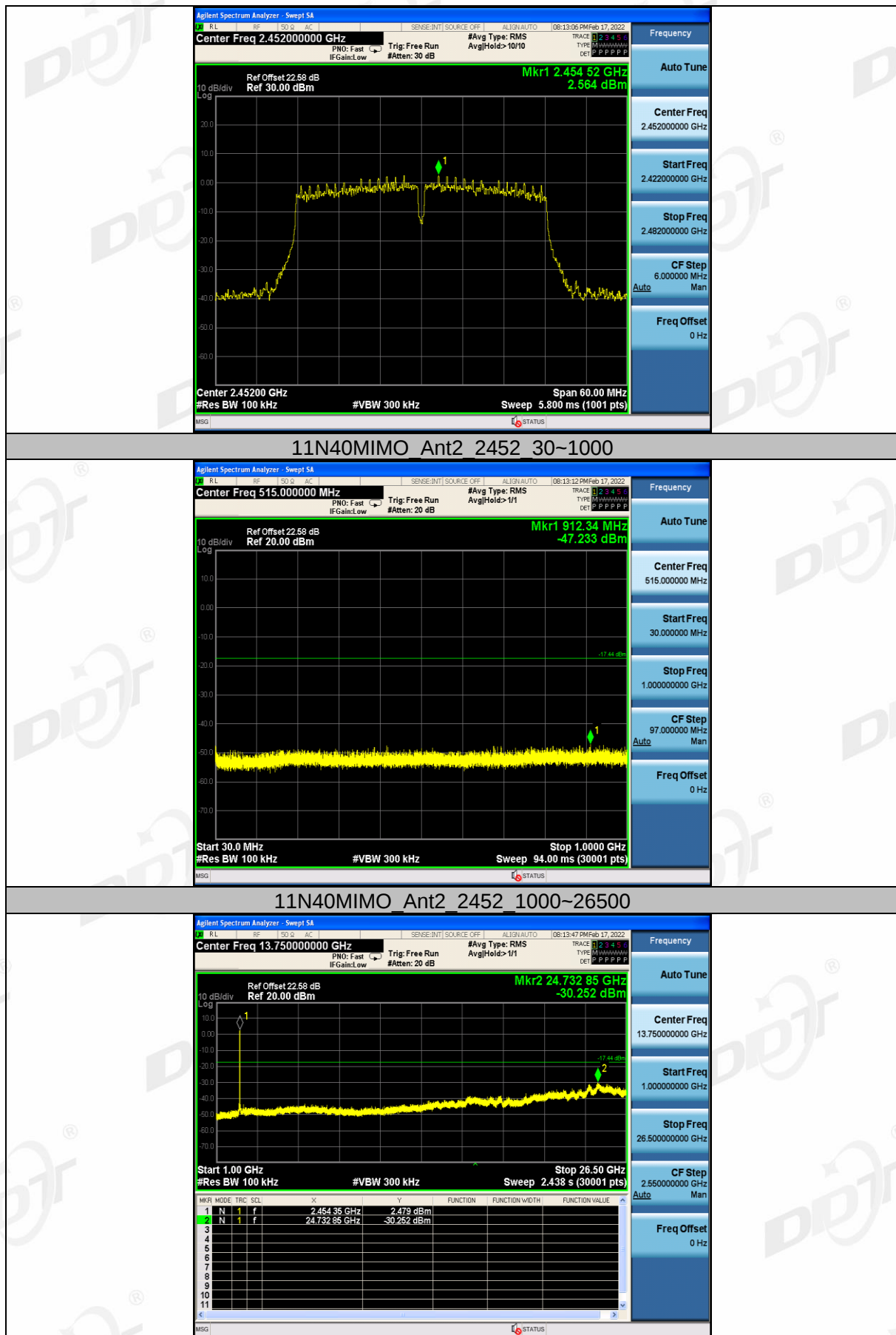




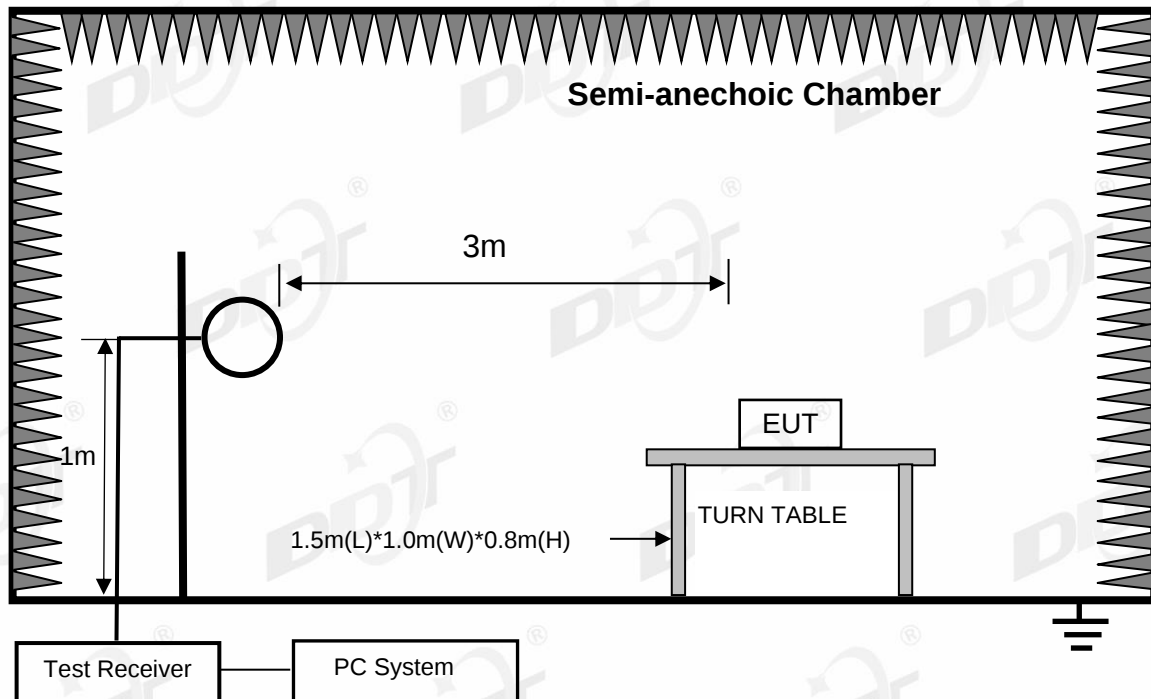




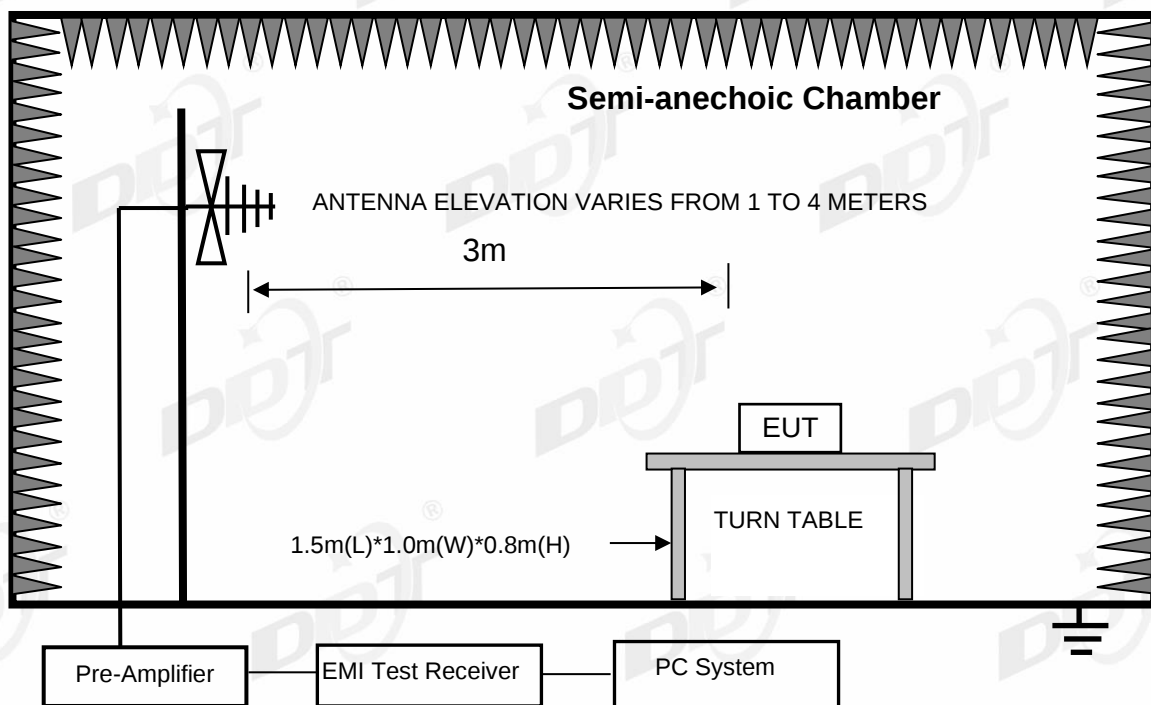
8. Radiated Spurious Emissions

8.1. Block diagram of test setup

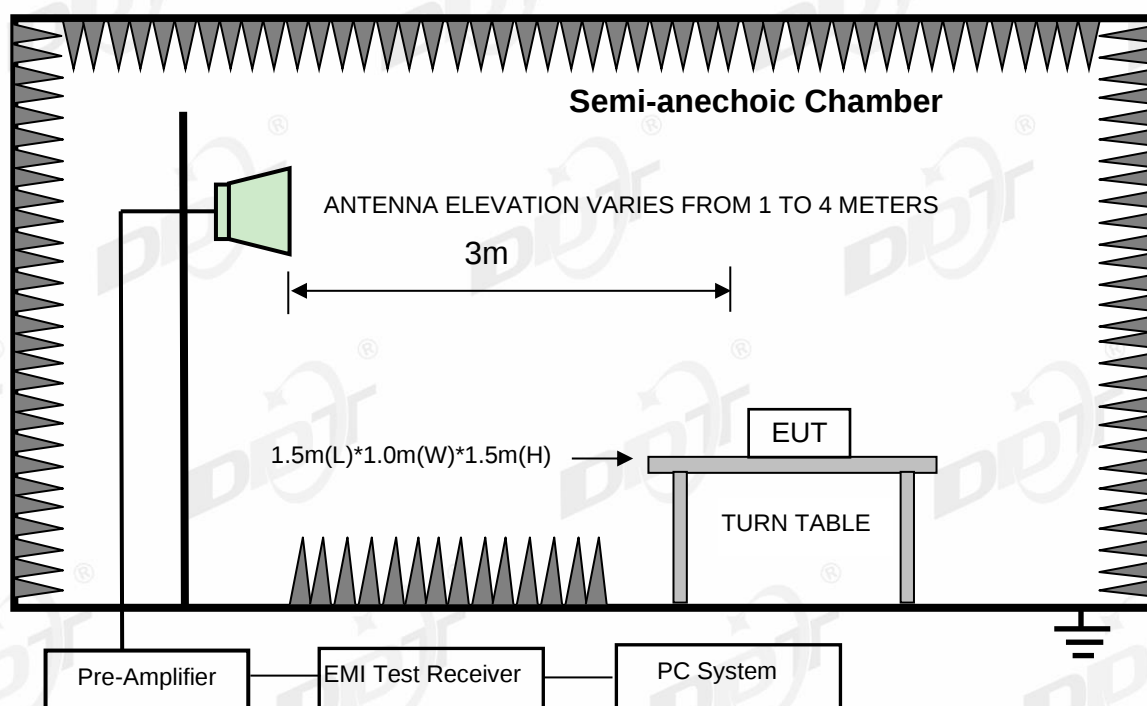
In 3 m Anechoic Chamber, test setup diagram for 9 kHz - 30 MHz:



In 3 m Anechoic Chamber, test setup diagram for 30 MHz - 1 GHz:



In 3 m Anechoic Chamber, test setup diagram for frequency above 1 GHz:



Note: For harmonic emissions test an appropriate high pass filter was inserted in the input port of AMP.

8.2. Limit

8.2.1 FCC 15.205 Restricted frequency band

MHz	MHz	MHz	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	8.025-8.5
4.1772&4.1775	37.5-38.25	1435-1626.5	9.0-9.2
4.2072&4.2075	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	156.52475-156.52525	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			

¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

²Above 38.6

8.2.2 FCC 15.209 Limit.

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
0.009 ~ 0.490	300	2400/F(kHz)	67.6-20log(F)
0.490 ~ 1.705	30	24000/F(kHz)	87.6-20log(F)
1.705 ~ 30.0	30	30	29.54
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

Note: (1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000MHz. Radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30MHz, measurement may be performed at a distance closer than that specified, and the limit at closer measurement distance can be extrapolated by below formula:

$$\text{Limit}_{3\text{m}}(\text{dB}\mu\text{V}/\text{m}) = \text{Limit}_{30\text{m}}(\text{dB}\mu\text{V}/\text{m}) + 40\text{Log}(30\text{m}/3\text{m})$$

8.2.3 Limit for this EUT

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions or comply with 15.209 limits.

8.3. Test procedure

(1) EUT height should be 0.8 m for below 1 GHz at a semi-anechoic chamber while EUT height should be 1.5 m for above 1 GHz at full chamber or semi-anechoic chamber ground with absorbers.

(2) The antenna used as below table.

Test frequency range	Test antenna used	Measuring distance
9 kHz-30 MHz	Active Loop antenna	3 m
30 MHz-1 GHz	Trilog Broadband Antenna	3 m
1 GHz-18 GHz	Double Ridged Horn Antenna(1GHz-18GHz)	3 m
18 GHz-40 GHz	Horn Antenna(18GHz-40GHz)	1 m

According ANSI C63.10:2013 clause 6.4.4.2 and 6.5.3, for measurements below 30 MHz, the loop antenna was positioned with its plane vertical from the EUT and rotated about its vertical axis for maximum response at each azimuth position around the EUT. And the loop antenna also be positioned with its plane horizontal at the specified distance from the EUT. The center of the

loop is 1 m above the ground. for measurement above 30 MHz, the Trilog Broadband Antenna or Horn Antenna was located 3 m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

(3) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9 kHz to 25 GHz:

(a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1 m to 4 m (Except loop antenna, it's fixed 1m above ground.)

(b) Change work frequency or channel of device if practicable.

(c) Change modulation type of device if practicable.

(d) Change power supply range from 85% to 115% of the rated supply voltage

(e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions.

Spectrum frequency from 9 kHz to 25 GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 18GHz to 25GHz, so below final test was performed with frequency range from 9kHz to 18GHz.

(4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1 m and 4 m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10 2013 on Radiated Emission test.

(5) The emissions from 9 kHz to 1 GHz were measured based on CISPR QP detector except for the frequency bands 9-90 kHz, 110-490 kHz, for emissions from 9 kHz-90 kHz, 110 kHz-490 kHz and above 1 GHz were measured based on average detector, for emissions above 1 GHz, peak emissions also be measured and need comply with Peak limit.

(6) The emissions from 9 kHz to 1 GHz, QP or average values were measured with EMI receiver with below RBW

Frequency band	RBW
9 kHz-150 kHz	200 Hz
150 kHz-30 MHz	9 kHz
30 MHz-1 GHz	120 kHz

(7) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1 MHz, VBW is set at 3 MHz for Peak measure; RMS detector RBW 1 MHz VBW 10 Hz for Average measure (according ANSI C63.10:2013 clause 4.2.3.2.3 procedure for average measure).

8.4. Test result

Pass. (See below detailed test result)

All the emissions except fundamental emission from 9 kHz to 25 GHz were comply with 15.209 limit.

Note1: According exploratory test, the emission levels are 20 dB below the limit detected from 9 kHz to 30 MHz and 18 GHz to 25 GHz, so the final test was performed with frequency range from 30 MHz to 18 GHz and recorded in below.

Note2: For emissions below 1 GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1 GHz, the final test was only performed with EUT working in the worst case.

Note3: For emissions above 1 GHz. If peak results comply with AV limit, AV Result is deemed to comply with AV limit.

Radiated Emission test (below 1GHz)

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

C:\E3 6.111\2022 Report Data\Q22011701-2E L065FGE\FCC BELOW 1G.EM6

Test Date : 2022-02-09

Tested By : James Gan

EUT : Laser Projector

Model Number : L065FGE

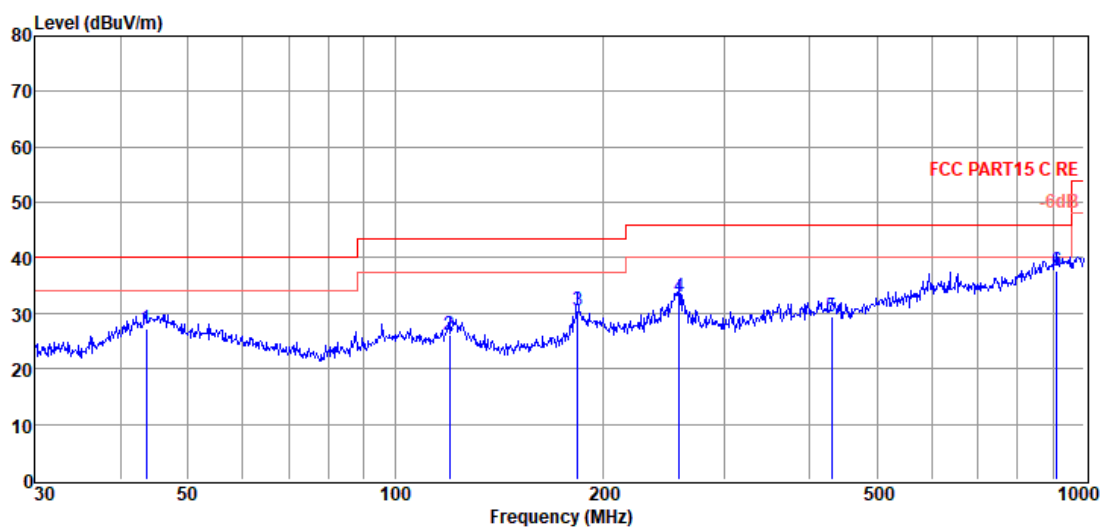
Power Supply : AC 120V/60Hz

Test Mode : TX Mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2021 VLUB 9163 3#/3m/HORIZONTAL

Memo : 2.4G WIFI



Data: 7

Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	43.51	8.88	14.70	3.64	27.22	40.00	-12.78	QP	HORIZONTAL
2	119.86	12.98	9.11	4.10	26.19	43.50	-17.31	QP	HORIZONTAL
3	183.84	16.41	9.78	4.39	30.58	43.50	-12.92	QP	HORIZONTAL
4	258.33	15.56	12.70	4.68	32.94	46.00	-13.06	QP	HORIZONTAL
5	429.52	7.97	16.09	5.26	29.32	46.00	-16.68	QP	HORIZONTAL
6	912.86	8.80	22.36	6.50	37.66	46.00	-8.34	QP	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

C:\E3 6.111\2022 Report Data\Q22011701-2E L065FGE\FCC
BELOW 1G.EM6

Test Date : 2022-02-09

Tested By : James Gan

EUT : Laser Projector

Model Number : L065FGE

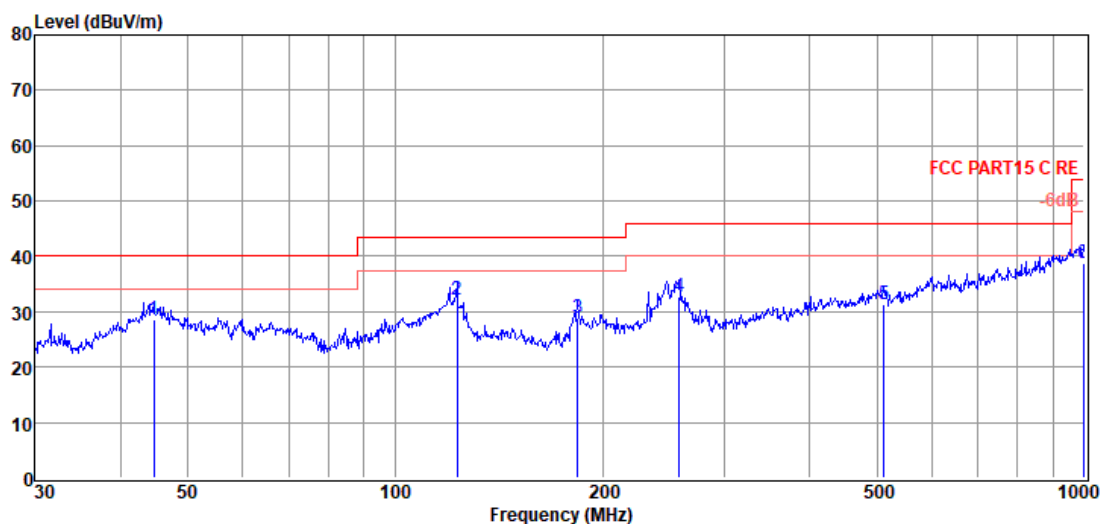
Power Supply : AC 120V/60Hz

Test Mode : TX Mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2021 VLUB 9163 3#/3m/VERTICAL

Memo : 2.4G WIFI



Data: 8

Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	44.59	9.88	15.06	3.64	28.58	40.00	-11.42	QP	VERTICAL
2	122.83	18.96	9.00	4.12	32.08	43.50	-11.42	QP	VERTICAL
3	183.84	14.69	9.78	4.39	28.86	43.50	-14.64	QP	VERTICAL
4	258.33	15.36	12.70	4.68	32.74	46.00	-13.26	QP	VERTICAL
5	511.84	8.73	17.14	5.50	31.37	46.00	-14.63	QP	VERTICAL
6	996.50	9.43	22.43	6.82	38.68	54.00	-15.32	QP	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

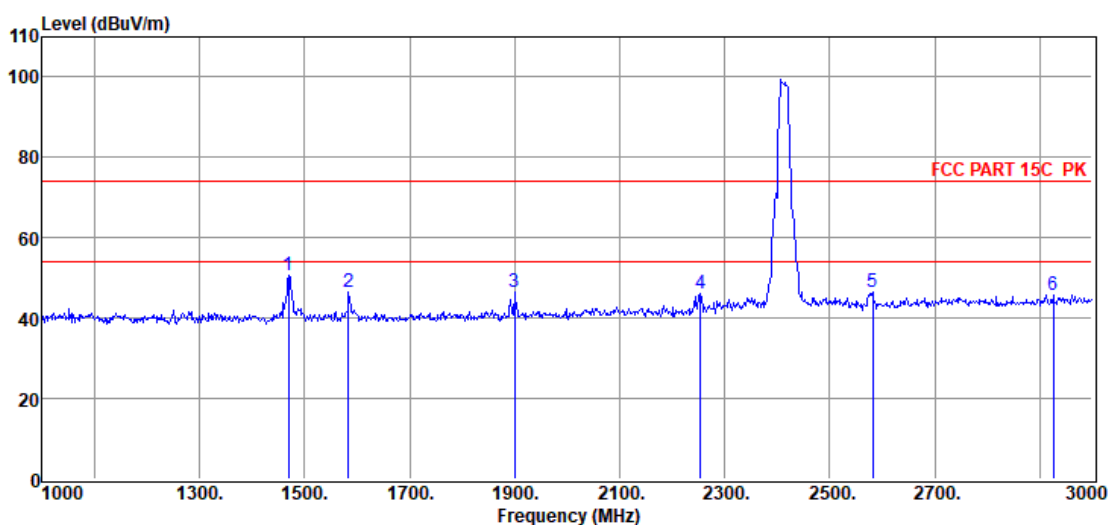
TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

C:\E3 6.111\2022 Report Data\Q22011701-2E L065FGE\FCC ABOVE 1G 2.4GWIFI.EM6

Test Date : 2022-02-14**Tested By** : Kennys Zhang**EUT** : Laser Projector**Model Number** : L065FGE**Power Supply** : AC 120V/60Hz**Test Mode** : TX Mode**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa**Antenna/Distance** : 2021 BBHA 9120D
3#/3m/HORIZONTAL**Memo** : 11N20 2412

Data: 1



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1470.00	61.83	25.41	38.61	1.36	0.58	50.57	74.00	-23.43	Peak	HORIZONTAL
2	1584.00	57.73	25.62	38.78	1.42	0.61	46.60	74.00	-27.40	Peak	HORIZONTAL
3	1900.00	57.05	26.44	39.25	1.56	0.66	46.46	74.00	-27.54	Peak	HORIZONTAL
4	2254.00	56.05	27.16	39.53	1.67	0.71	46.06	74.00	-27.94	Peak	HORIZONTAL
5	2582.00	55.78	27.91	39.69	1.76	0.74	46.50	74.00	-27.50	Peak	HORIZONTAL
6	2926.00	53.64	29.22	39.86	1.85	0.78	45.63	74.00	-28.37	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

C:\E3 6.111\2022 Report Data\Q22011701-2E L065FGE\FCC ABOVE 1G 2.4GWIFI.EM6

Test Date : 2022-02-14

Tested By : Kennys Zhang

EUT : Laser Projector

Model Number : L065FGE

Power Supply : AC 120V/60Hz

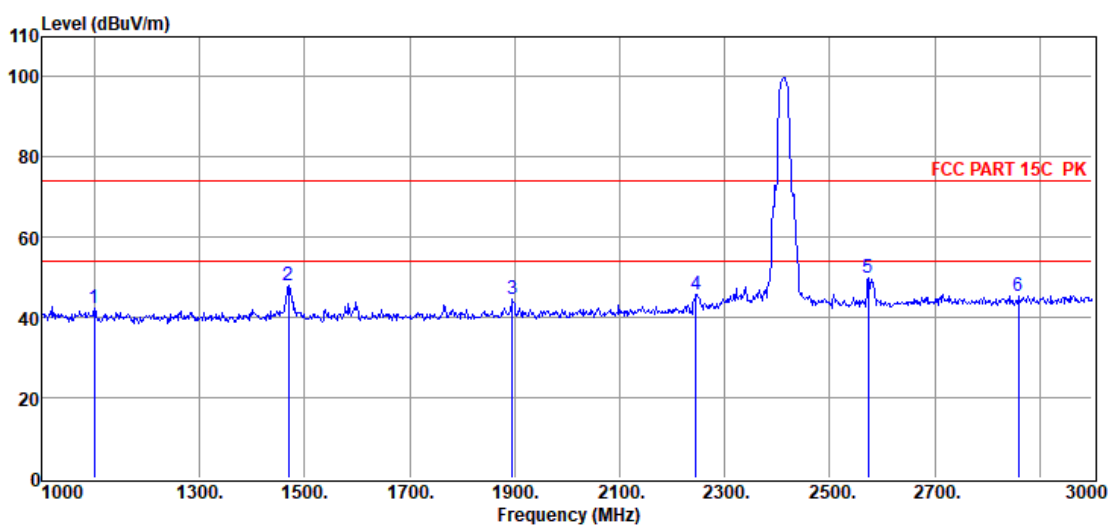
Test Mode : TX Mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D 3#/3m/VERTICAL

Memo : 11N20 2412

Data: 2



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	1100.00	53.29	25.48	38.05	1.16	0.52	42.40	74.00	-31.60	Peak	VERTICAL
2	1470.00	59.14	25.41	38.61	1.36	0.58	47.88	74.00	-26.12	Peak	VERTICAL
3	1896.00	55.10	26.43	39.24	1.55	0.66	44.50	74.00	-29.50	Peak	VERTICAL
4	2246.00	55.70	27.14	39.52	1.67	0.71	45.70	74.00	-28.30	Peak	VERTICAL
5	2574.00	59.05	27.88	39.69	1.76	0.74	49.74	74.00	-24.26	Peak	VERTICAL
6	2860.00	53.73	28.97	39.83	1.83	0.77	45.47	74.00	-28.53	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

C:\E3 6.111\2022 Report Data\Q22011701-2E L065FGE\FCC ABOVE 1G 2.4GWIFI.EM6

Test Date : 2022-02-14

Tested By : Kennys Zhang

EUT : Laser Projector

Model Number : L065FGE

Power Supply : AC 120V/60Hz

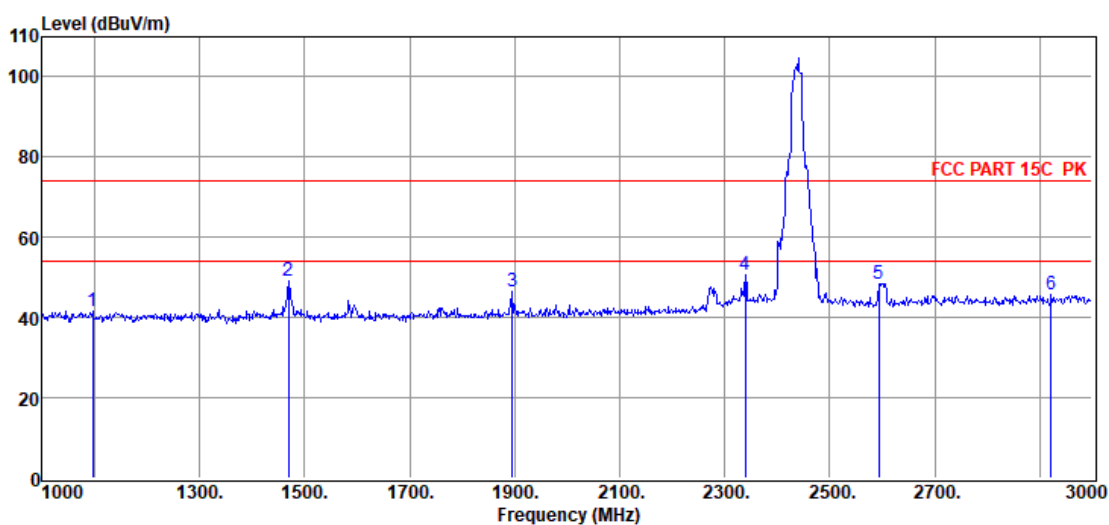
Test Mode : TX Mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D 3#/3m/VERTICAL

Memo : 11N20 2437

Data: 3



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	1096.00	52.47	25.48	38.04	1.15	0.52	41.58	74.00	-32.42	Peak	VERTICAL
2	1470.00	60.26	25.41	38.61	1.36	0.58	49.00	74.00	-25.00	Peak	VERTICAL
3	1896.00	57.24	26.43	39.24	1.55	0.66	46.64	74.00	-27.36	Peak	VERTICAL
4	2340.00	60.37	27.31	39.57	1.70	0.72	50.53	74.00	-23.47	Peak	VERTICAL
5	2594.00	57.73	27.96	39.70	1.76	0.75	48.50	74.00	-25.50	Peak	VERTICAL
6	2922.00	53.68	29.20	39.86	1.85	0.78	45.65	74.00	-28.35	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

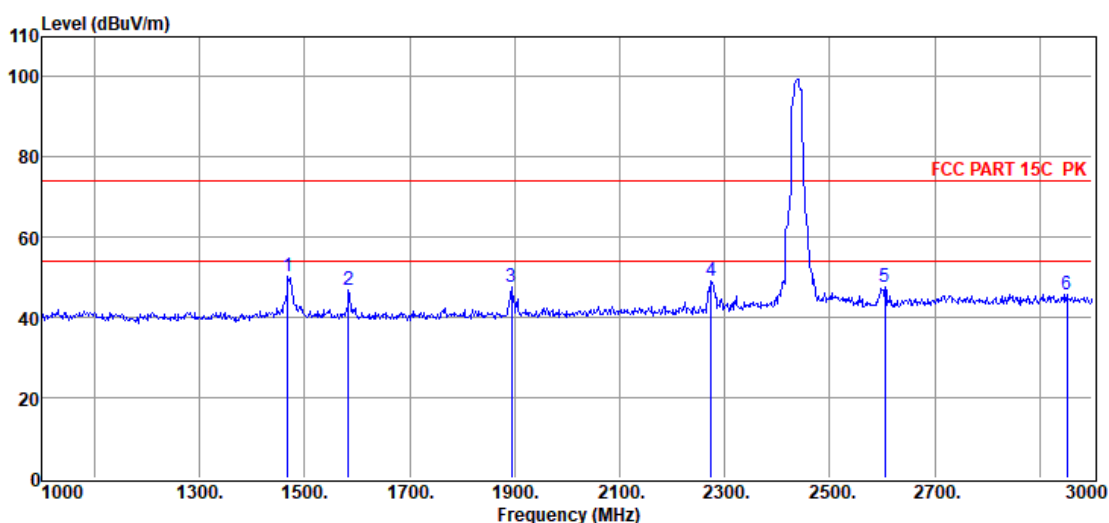
TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

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Test Date : 2022-02-14**Tested By** : Kennys Zhang**EUT** : Laser Projector**Model Number** : L065FGE**Power Supply** : AC 120V/60Hz**Test Mode** : TX Mode**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa**Antenna/Distance** : 2021 BBHA 9120D
3#/3m/HORIZONTAL**Memo** : 11N20 2437

Data: 4



Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

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Test Date : 2022-02-14

Tested By : Kennys Zhang

EUT : Laser Projector

Model Number : L065FGE

Power Supply : AC 120V/60Hz

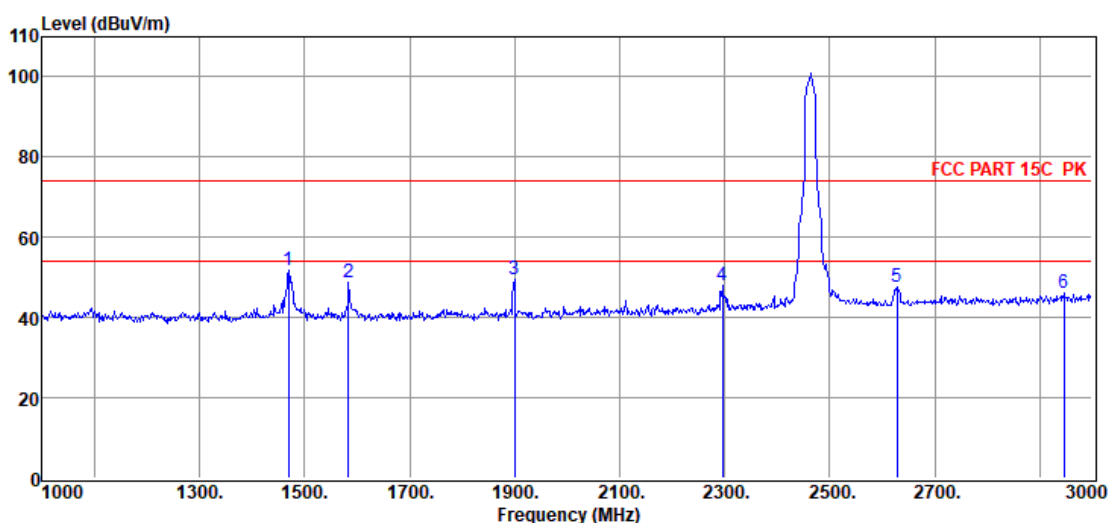
Test Mode : TX Mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D
3#/3m/HORIZONTAL

Memo : 11N20 2462

Data: 5



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	1470.00	62.99	25.41	38.61	1.36	0.58	51.73	74.00	-22.27	Peak	HORIZONTAL
2	1584.00	59.82	25.62	38.78	1.42	0.61	48.69	74.00	-25.31	Peak	HORIZONTAL
3	1900.00	59.92	26.44	39.25	1.56	0.66	49.33	74.00	-24.67	Peak	HORIZONTAL
4	2296.00	57.79	27.23	39.55	1.68	0.71	47.86	74.00	-26.14	Peak	HORIZONTAL
5	2628.00	56.58	28.09	39.71	1.77	0.75	47.48	74.00	-26.52	Peak	HORIZONTAL
6	2946.00	53.90	29.29	39.87	1.86	0.78	45.96	74.00	-28.04	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

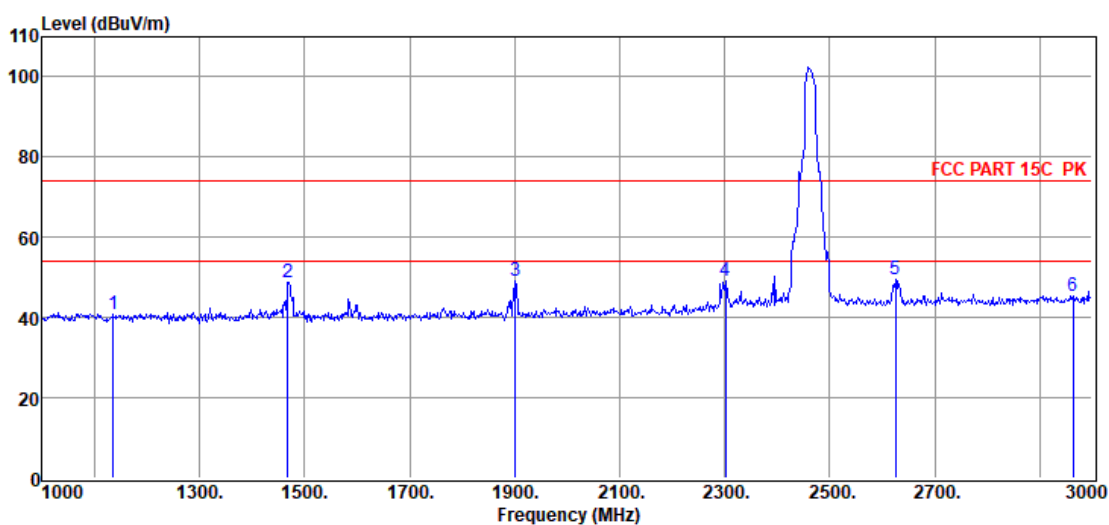
TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

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Test Date : 2022-02-14**Tested By** : Kennys Zhang**EUT** : Laser Projector**Model Number** : L065FGE**Power Supply** : AC 120V/60Hz**Test Mode** : TX Mode**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa**Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL**Memo** : 11N20 2462

Data: 6



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1136.00	51.91	25.47	38.10	1.18	0.52	40.98	74.00	-33.02	Peak	VERTICAL
2	1468.00	60.02	25.41	38.60	1.36	0.58	48.77	74.00	-25.23	Peak	VERTICAL
3	1902.00	59.77	26.45	39.25	1.56	0.66	49.19	74.00	-24.81	Peak	VERTICAL
4	2302.00	59.16	27.24	39.55	1.68	0.71	49.24	74.00	-24.76	Peak	VERTICAL
5	2626.00	58.61	28.08	39.71	1.77	0.75	49.50	74.00	-24.50	Peak	VERTICAL
6	2964.00	53.36	29.36	39.88	1.86	0.79	45.49	74.00	-28.51	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

C:\E3 6.111\2022 Report Data\Q22011701-2E L065FGE\FCC ABOVE 1G 2.4GWIFI.EM6

Test Date : 2022-02-15

Tested By : Kennys Zhang

EUT : Laser Projector

Model Number : L065FGE

Power Supply : AC 120V/60Hz

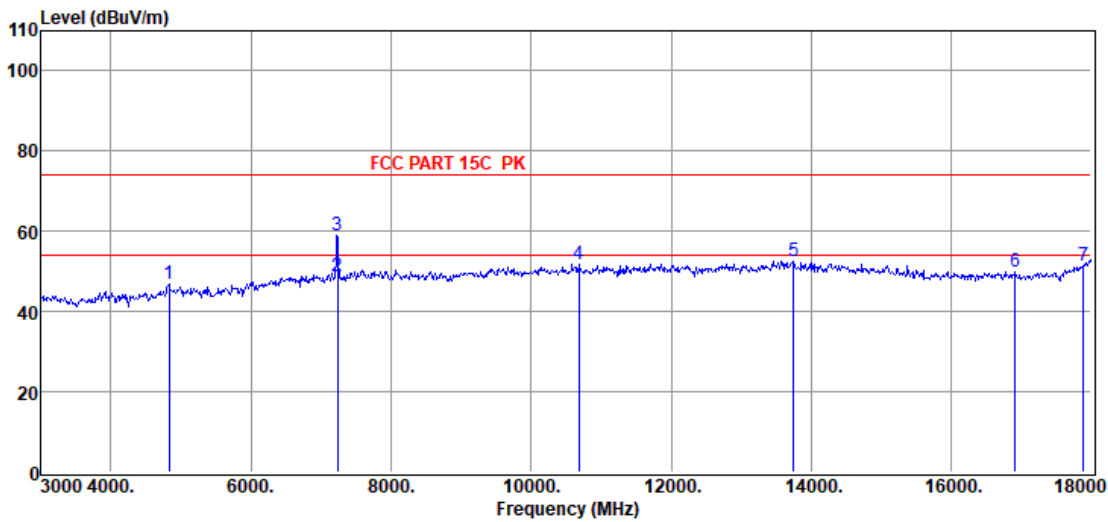
Test Mode : TX Mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D 3#/3m/VERTICAL

Memo : 11N20 2412

Data: 31



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	4830.00	50.20	32.56	40.37	2.48	2.16	47.03	74.00	-26.97	Peak	VERTICAL
2	7236.00	46.86	36.19	39.72	3.08	2.26	48.67	54.00	-5.33	Average	VERTICAL
3	7236.00	57.23	36.19	39.72	3.08	2.26	59.04	74.00	-14.96	Peak	VERTICAL
4	10680.00	46.87	39.11	40.33	3.72	2.41	51.78	74.00	-22.22	Peak	VERTICAL
5	13755.00	45.19	39.95	39.87	4.27	2.91	52.45	74.00	-21.55	Peak	VERTICAL
6	16920.00	43.28	38.40	40.08	4.71	3.48	49.79	74.00	-24.21	Peak	VERTICAL
7	17895.00	41.69	41.85	40.64	4.93	3.76	51.59	74.00	-22.41	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

C:\E3 6.111\2022 Report Data\Q22011701-2E L065FGE\FCC ABOVE 1G 2.4GWIFI.EM6

Test Date : 2022-02-15

Tested By : Kennys Zhang

EUT : Laser Projector

Model Number : L065FGE

Power Supply : AC 120V/60Hz

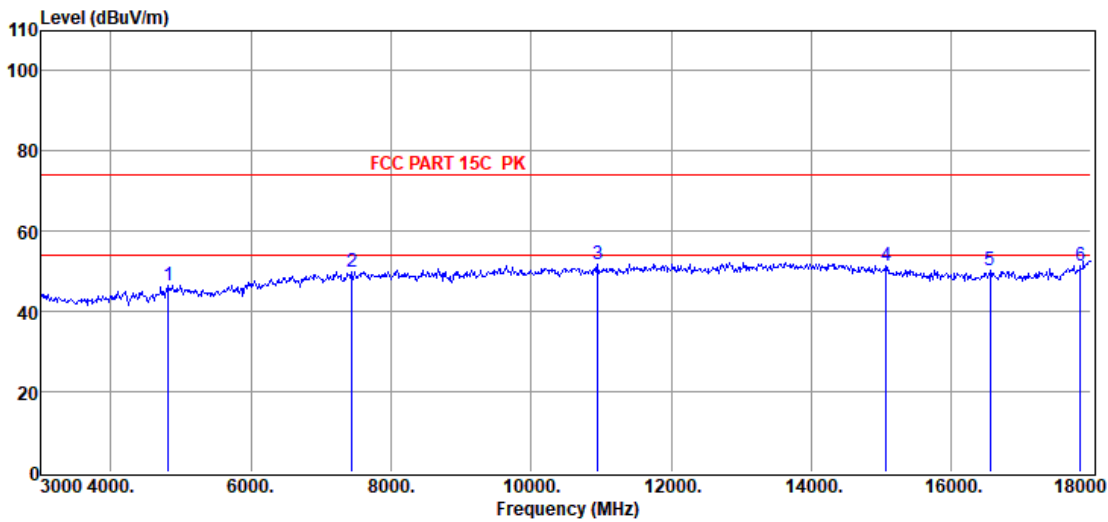
Test Mode : TX Mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D
3#/3m/HORIZONTAL

Memo : 11N20 2412

Data: 32



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	4815.00	49.68	32.51	40.36	2.47	2.16	46.46	74.00	-27.54	Peak	HORIZONTAL
2	7440.00	48.06	36.35	39.74	3.13	2.27	50.07	74.00	-23.93	Peak	HORIZONTAL
3	10950.00	46.41	39.27	40.22	3.79	2.39	51.64	74.00	-22.36	Peak	HORIZONTAL
4	15075.00	44.58	39.40	39.62	4.48	2.66	51.50	74.00	-22.50	Peak	HORIZONTAL
5	16560.00	44.38	37.97	40.01	4.73	3.34	50.41	74.00	-23.59	Peak	HORIZONTAL
6	17850.00	41.93	41.57	40.61	4.92	3.75	51.56	74.00	-22.44	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

C:\E3 6.111\2022 Report Data\Q22011701-2E L065FGE\FCC ABOVE 1G 2.4GWIFI.EM6

Test Date : 2022-02-15

Tested By : Kennys Zhang

EUT : Laser Projector

Model Number : L065FGE

Power Supply : AC 120V/60Hz

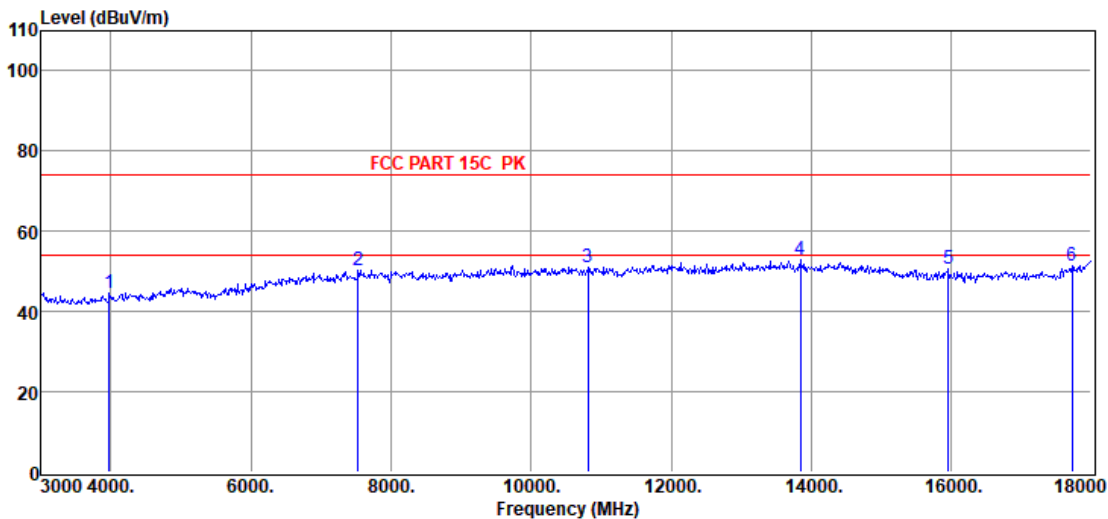
Test Mode : TX Mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D
3#/3m/HORIZONTAL

Memo : 11N20 2437

Data: 33



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	3975.00	49.53	31.01	40.19	2.09	2.07	44.51	74.00	-29.49	Peak	HORIZONTAL
2	7530.00	48.12	36.44	39.75	3.14	2.27	50.22	74.00	-23.78	Peak	HORIZONTAL
3	10815.00	46.12	39.19	40.27	3.75	2.40	51.19	74.00	-22.81	Peak	HORIZONTAL
4	13845.00	45.35	39.93	39.81	4.36	2.91	52.74	74.00	-21.26	Peak	HORIZONTAL
5	15960.00	44.78	37.97	39.89	4.60	3.10	50.56	74.00	-23.44	Peak	HORIZONTAL
6	17730.00	42.46	40.83	40.54	4.88	3.71	51.34	74.00	-22.66	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

C:\E3 6.111\2022 Report Data\Q22011701-2E L065FGE\FCC ABOVE 1G 2.4GWIFI.EM6

Test Date : 2022-02-15

Tested By : Kennys Zhang

EUT : Laser Projector

Model Number : L065FGE

Power Supply : AC 120V/60Hz

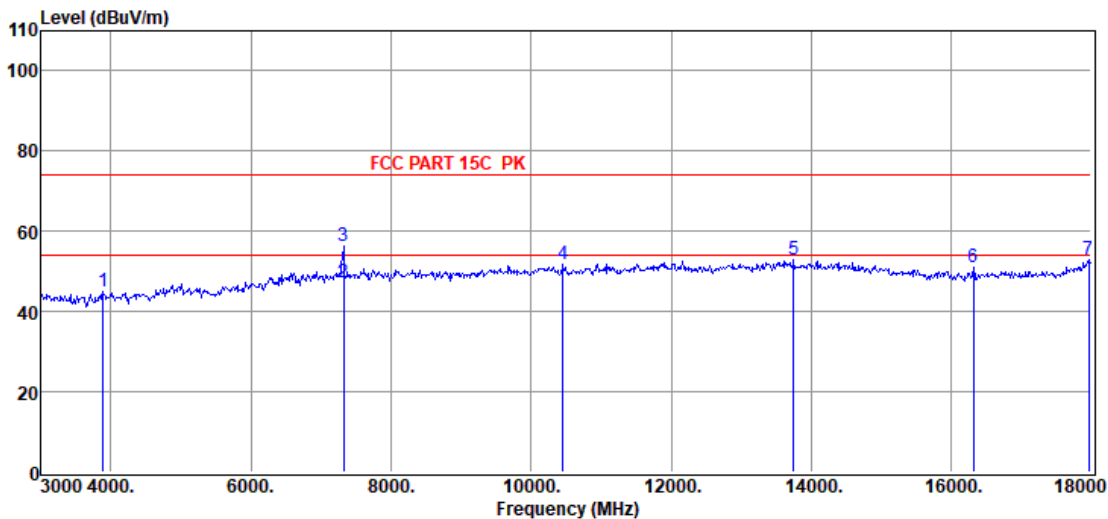
Test Mode : TX Mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D 3#/3m/VERTICAL

Memo : 11N20 2437

Data: 34



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	3885.00	50.33	30.71	40.17	2.01	2.17	45.05	74.00	-28.95	Peak	VERTICAL
2	7320.00	45.27	36.26	39.73	3.10	2.27	47.17	54.00	-6.83	Average	VERTICAL
3	7320.00	54.26	36.26	39.73	3.10	2.27	56.16	74.00	-17.84	Peak	VERTICAL
4	10455.00	47.22	38.95	40.42	3.67	2.43	51.85	74.00	-22.15	Peak	VERTICAL
5	13755.00	45.84	39.95	39.87	4.27	2.91	53.10	74.00	-20.90	Peak	VERTICAL
6	16320.00	45.21	37.90	39.96	4.68	3.24	51.07	74.00	-22.93	Peak	VERTICAL
7	17970.00	42.54	42.31	40.68	4.95	3.78	52.90	74.00	-21.10	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

C:\E3 6.111\2022 Report Data\Q22011701-2E L065FGE\FCC ABOVE 1G 2.4GWIFI.EM6

Test Date : 2022-02-15

Tested By : Kennys Zhang

EUT : Laser Projector

Model Number : L065FGE

Power Supply : AC 120V/60Hz

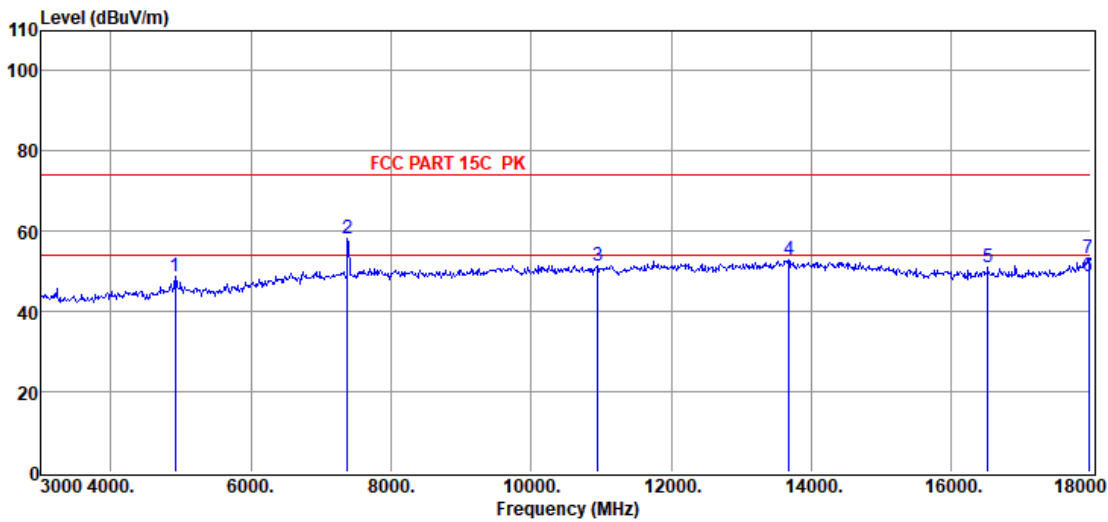
Test Mode : TX Mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D 3#/3m/VERTICAL

Memo : 11N20 2462

Data: 35



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	4920.00	51.55	32.84	40.38	2.51	2.18	48.70	74.00	-25.30	Peak	VERTICAL
2	7380.00	56.44	36.30	39.74	3.11	2.27	58.38	74.00	-15.62	Peak	VERTICAL
3	10950.00	46.18	39.27	40.22	3.79	2.39	51.41	74.00	-22.59	Peak	VERTICAL
4	13680.00	45.59	39.96	39.92	4.18	2.92	52.73	74.00	-21.27	Peak	VERTICAL
5	16530.00	45.17	37.94	40.01	4.73	3.33	51.16	74.00	-22.84	Peak	VERTICAL
6	17970.00	38.29	42.31	40.68	4.95	3.78	48.65	54.00	-5.35	Average	VERTICAL
7	17970.00	43.10	42.31	40.68	4.95	3.78	53.46	74.00	-20.54	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

C:\E3 6.111\2022 Report Data\Q22011701-2E L065FGE\FCC ABOVE 1G 2.4GWIFI.EM6

Test Date : 2022-02-15

Tested By : Kennys Zhang

EUT : Laser Projector

Model Number : L065FGE

Power Supply : AC 120V/60Hz

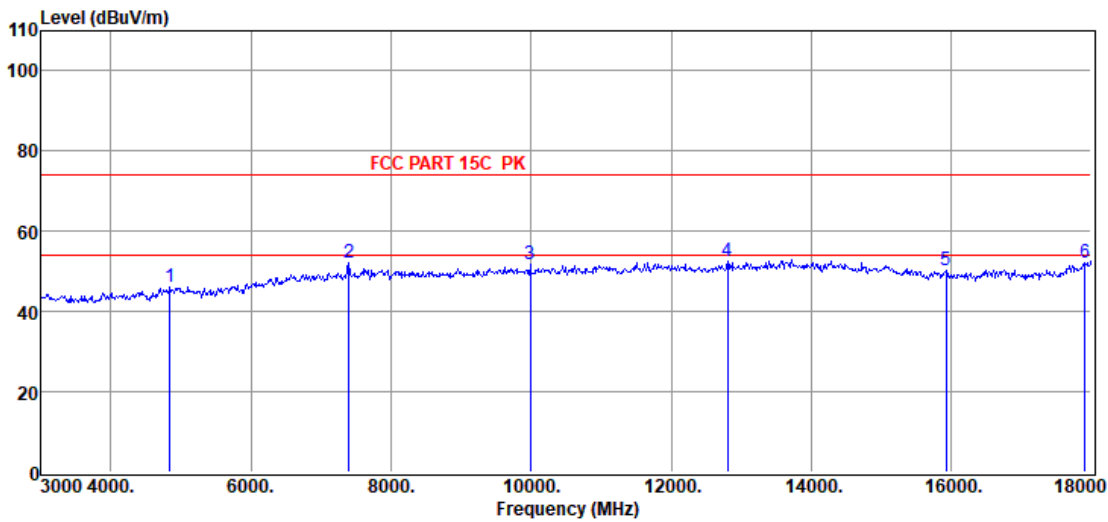
Test Mode : TX Mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D
3#/3m/HORIZONTAL

Memo : 11N20 2462

Data: 36



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	4845.00	49.22	32.60	40.37	2.48	2.17	46.10	74.00	-27.90	Peak	HORIZONTAL
2	7395.00	50.07	36.32	39.74	3.11	2.27	52.03	74.00	-21.97	Peak	HORIZONTAL
3	9990.00	47.63	38.41	40.59	3.67	2.48	51.60	74.00	-22.40	Peak	HORIZONTAL
4	12810.00	46.57	39.37	40.34	4.14	2.85	52.59	74.00	-21.41	Peak	HORIZONTAL
5	15930.00	44.61	38.03	39.88	4.59	3.08	50.43	74.00	-23.57	Peak	HORIZONTAL
6	17910.00	42.20	41.94	40.65	4.93	3.76	52.18	74.00	-21.82	Peak	HORIZONTAL

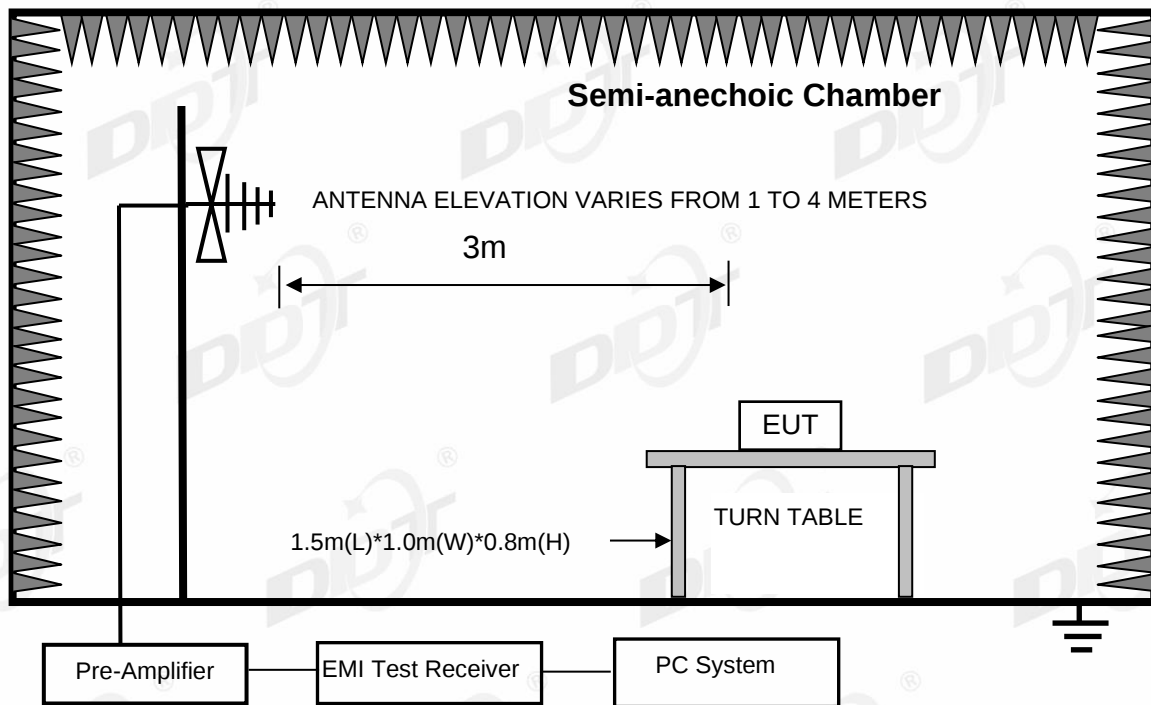
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

9. Radiated Band Edge Compliance

9.1. Block diagram of test setup



9.2. Limit

All restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400 MHz to 2483.5 MHz shall be at least 20dB below the fundamental emissions or comply with FCC 15.209 limits.

9.3. Test procedure

Same with clause 8.3 except change investigated frequency range from 2310 MHz to 2422 MHz and 2450 MHz to 2500 MHz, 2310 MHz to 2440 MHz and 2430 MHz to 2500MHz.

Remark: All restriction band have been tested, and shown in report.

9.4. Test result

Pass. (See below detailed test result)

Note: All mode was tested and the worst case was recorded this report.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

C:\E3 6.111\2022 Report Data\Q22011701-2E L065FGE\FCC ABOVE 1G 2.4GWIFI.EM6

Test Date : 2022-02-14

Tested By : Kennys Zhang

EUT : Laser Projector

Model Number : L065FGE

Power Supply : AC 120V/60Hz

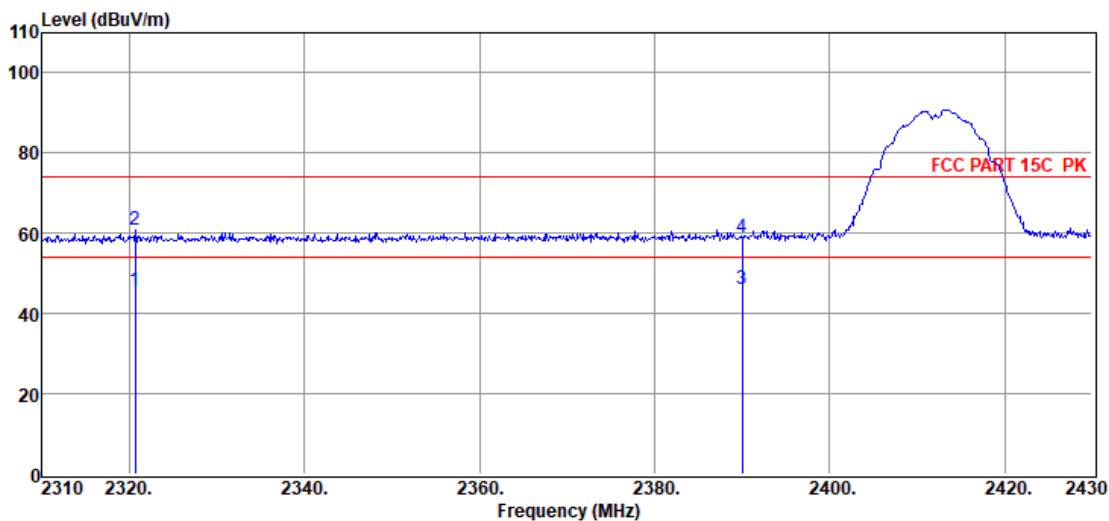
Test Mode : TX Mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D 3#/3m/VERTICAL

Memo : 11B 2412 ANT1

Data: 7



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2320.68	15.87	27.28	0.00	1.69	0.72	45.56	54.00	-8.44	Average	VERTICAL
2	2320.68	31.23	27.28	0.00	1.69	0.72	60.92	74.00	-13.08	Peak	VERTICAL
3	2390.04	16.11	27.40	0.00	1.71	0.72	45.94	54.00	-8.06	Average	VERTICAL
4	2390.04	29.01	27.40	0.00	1.71	0.72	58.84	74.00	-15.16	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

C:\E3 6.111\2022 Report Data\Q22011701-2E L065FGE\FCC ABOVE 1G 2.4GWIFI.EM6

Test Date : 2022-02-14

Tested By : Kennys Zhang

EUT : Laser Projector

Model Number : L065FGE

Power Supply : AC 120V/60Hz

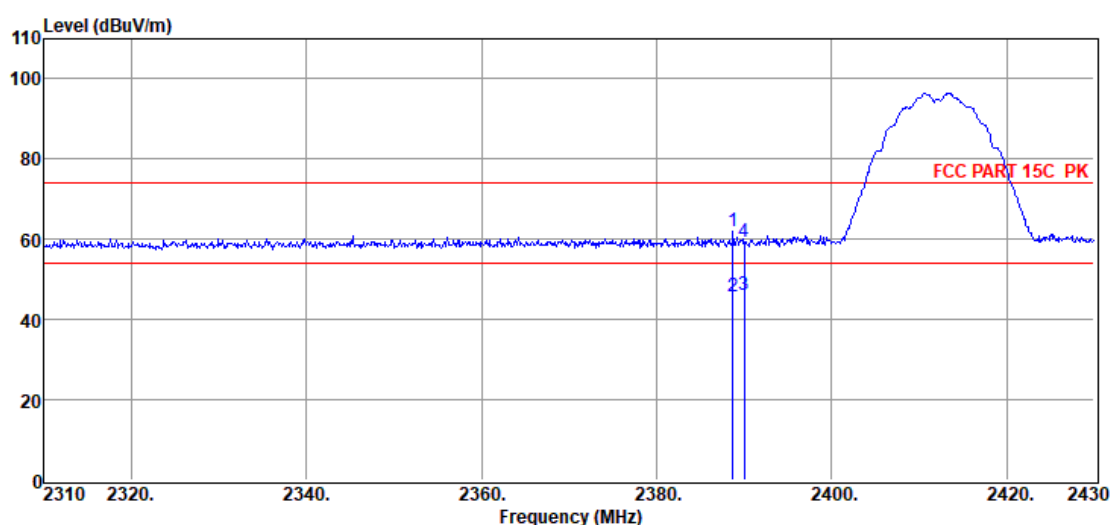
Test Mode : TX Mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D
3#/3m/HORIZONTAL

Memo : 11B 2412 ANT1

Data: 8



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2388.72	32.09	27.40	0.00	1.71	0.72	61.92	74.00	-12.08	Peak	HORIZONTAL
2	2388.72	16.00	27.40	0.00	1.71	0.72	45.83	74.00	-28.17	Peak	HORIZONTAL
3	2390.04	16.19	27.40	0.00	1.71	0.72	46.02	54.00	-7.98	Average	HORIZONTAL
4	2390.04	29.59	27.40	0.00	1.71	0.72	59.42	74.00	-14.58	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

C:\E3 6.111\2022 Report Data\Q22011701-2E L065FGE\FCC ABOVE 1G 2.4GWIFI.EM6

Test Date : 2022-02-14

Tested By : Kennys Zhang

EUT : Laser Projector

Model Number : L065FGE

Power Supply : AC 120V/60Hz

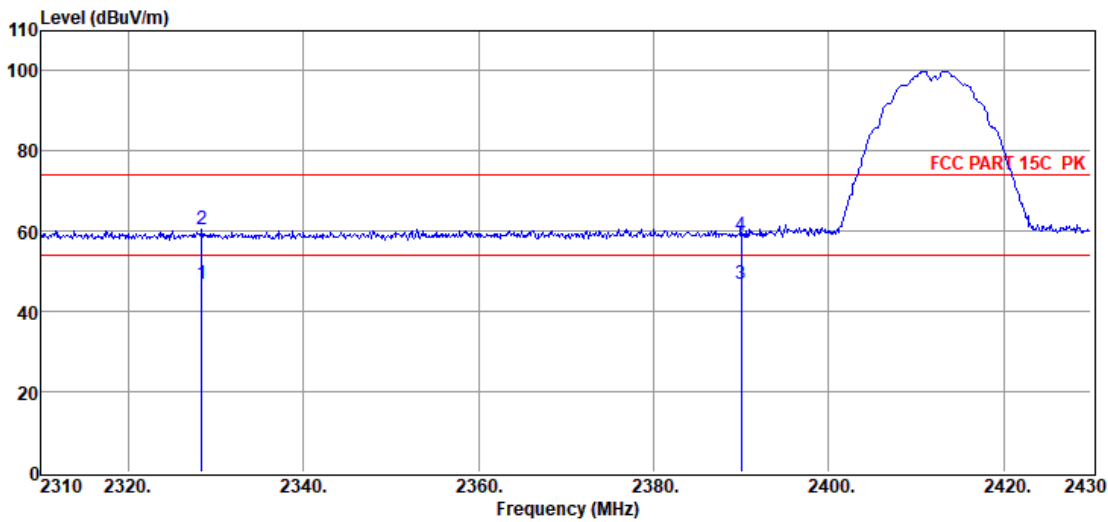
Test Mode : TX Mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D
3#/3m/HORIZONTAL

Memo : 11B 2412 ANT2

Data: 9



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2328.36	17.04	27.29	0.00	1.69	0.72	46.74	54.00	-7.26	Average	HORIZONTAL
2	2328.36	30.93	27.29	0.00	1.69	0.72	60.63	74.00	-13.37	Peak	HORIZONTAL
3	2390.04	17.15	27.40	0.00	1.71	0.72	46.98	54.00	-7.02	Average	HORIZONTAL
4	2390.04	29.29	27.40	0.00	1.71	0.72	59.12	74.00	-14.88	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

C:\E3 6.111\2022 Report Data\Q22011701-2E L065FGE\FCC ABOVE 1G 2.4GWIFI.EM6

Test Date : 2022-02-14

Tested By : Kennys Zhang

EUT : Laser Projector

Model Number : L065FGE

Power Supply : AC 120V/60Hz

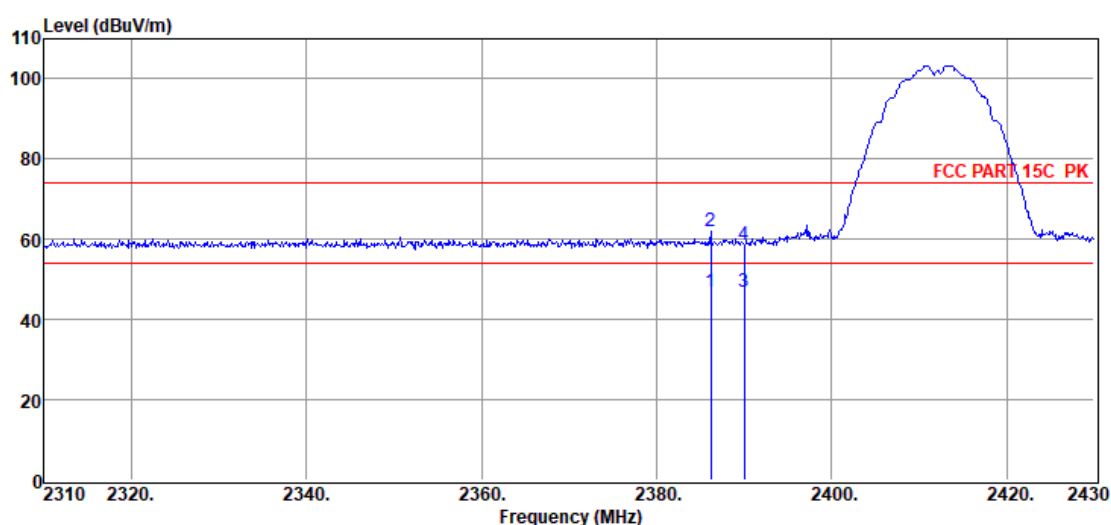
Test Mode : TX Mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D 3#/3m/VERTICAL

Memo : 11B 2412 ANT2

Data: 10



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2386.20	17.11	27.40	0.00	1.71	0.72	46.94	54.00	-7.06	Average	VERTICAL
2	2386.20	32.05	27.40	0.00	1.71	0.72	61.88	74.00	-12.12	Peak	VERTICAL
3	2390.04	17.20	27.40	0.00	1.71	0.72	47.03	54.00	-6.97	Average	VERTICAL
4	2390.04	28.82	27.40	0.00	1.71	0.72	58.65	74.00	-15.35	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

C:\E3 6.111\2022 Report Data\Q22011701-2E L065FGE\FCC ABOVE 1G 2.4GWIFI.EM6

Test Date : 2022-02-14

Tested By : Kennys Zhang

EUT : Laser Projector

Model Number : L065FGE

Power Supply : AC 120V/60Hz

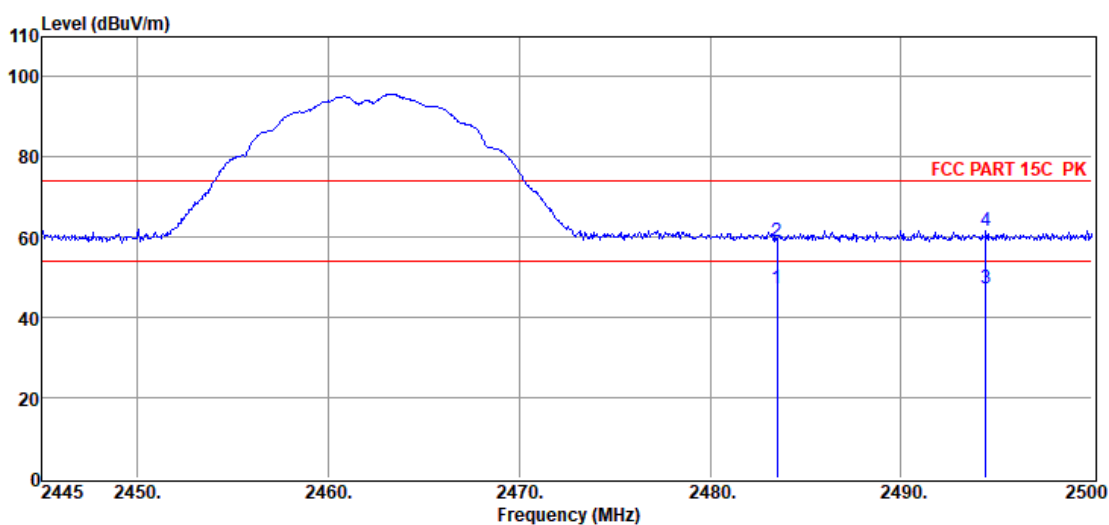
Test Mode : TX Mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D 3#/3m/VERTICAL

Memo : 11B 2462 ANT1

Data: 11



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	17.18	27.57	0.00	1.74	0.73	47.22	54.00	-6.78	Average	VERTICAL
2	2483.50	28.99	27.57	0.00	1.74	0.73	59.03	74.00	-14.97	Peak	VERTICAL
3	2494.45	17.01	27.59	0.00	1.74	0.73	47.07	54.00	-6.93	Average	VERTICAL
4	2494.45	31.52	27.59	0.00	1.74	0.73	61.58	74.00	-12.42	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

C:\E3 6.111\2022 Report Data\Q22011701-2E L065FGE\FCC ABOVE 1G 2.4GWIFI.EM6

Test Date : 2022-02-14

Tested By : Kennys Zhang

EUT : Laser Projector

Model Number : L065FGE

Power Supply : AC 120V/60Hz

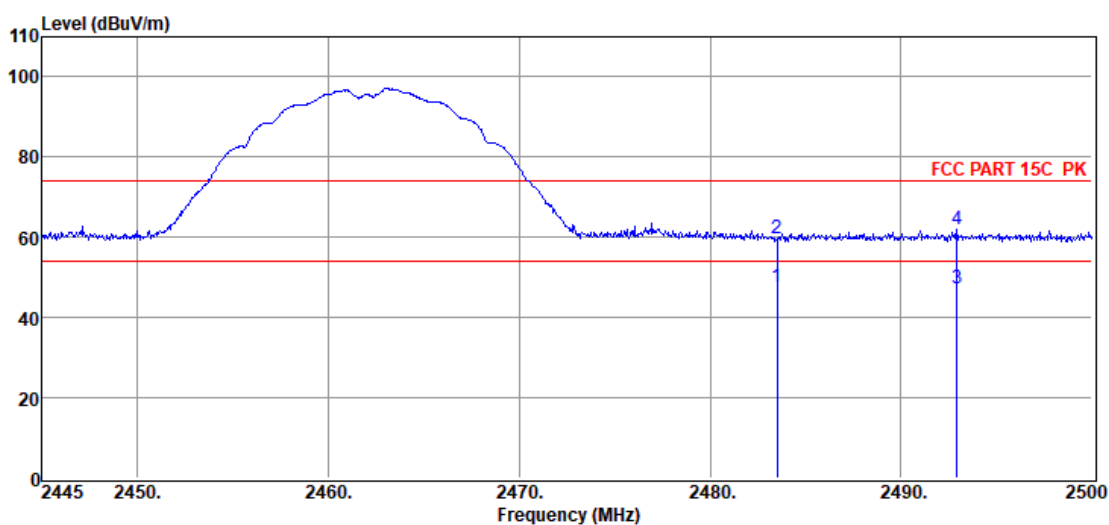
Test Mode : TX Mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D
3#/3m/HORIZONTAL

Memo : 11B 2462 ANT1

Data: 12



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	17.49	27.57	0.00	1.74	0.73	47.53	54.00	-6.47	Average	HORIZONTAL
2	2483.50	29.69	27.57	0.00	1.74	0.73	59.73	74.00	-14.27	Peak	HORIZONTAL
3	2492.91	17.17	27.59	0.00	1.74	0.73	47.23	54.00	-6.77	Average	HORIZONTAL
4	2492.91	31.78	27.59	0.00	1.74	0.73	61.84	74.00	-12.16	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

C:\E3 6.111\2022 Report Data\Q22011701-2E L065FGE\FCC ABOVE 1G 2.4GWIFI.EM6

Test Date : 2022-02-14

Tested By : Kennys Zhang

EUT : Laser Projector

Model Number : L065FGE

Power Supply : AC 120V/60Hz

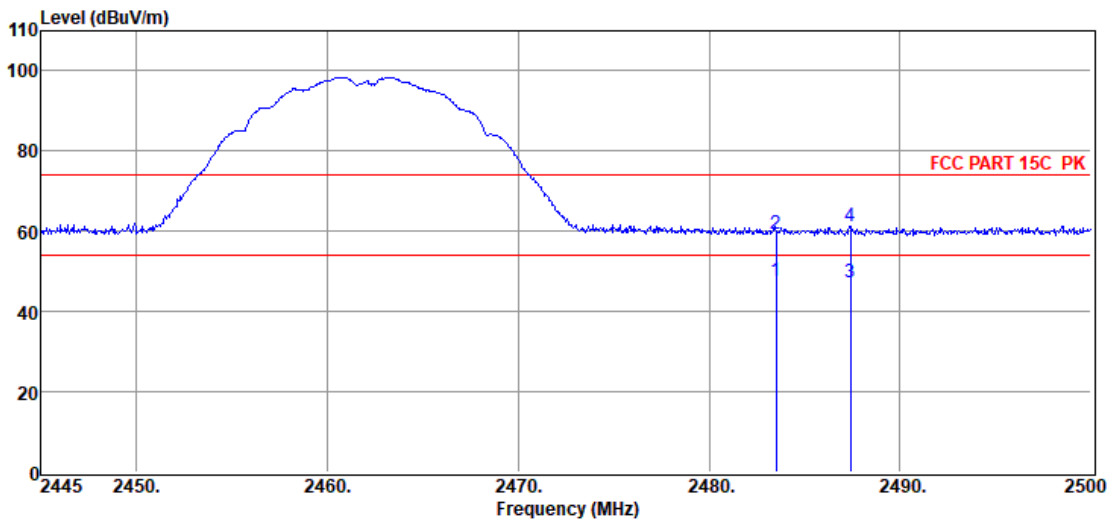
Test Mode : TX Mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D
3#/3m/HORIZONTAL

Memo : 11B 2462 ANT2

Data: 13



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	17.68	27.57	0.00	1.74	0.73	47.72	54.00	-6.28	Average	HORIZONTAL
2	2483.50	29.45	27.57	0.00	1.74	0.73	59.49	74.00	-14.51	Peak	HORIZONTAL
3	2487.41	17.23	27.58	0.00	1.74	0.73	47.28	54.00	-6.72	Average	HORIZONTAL
4	2487.41	31.24	27.58	0.00	1.74	0.73	61.29	74.00	-12.71	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

C:\E3 6.111\2022 Report Data\Q22011701-2E L065FGE\FCC ABOVE 1G 2.4GWIFI.EM6

Test Date : 2022-02-14

Tested By : Kennys Zhang

EUT : Laser Projector

Model Number : L065FGE

Power Supply : AC 120V/60Hz

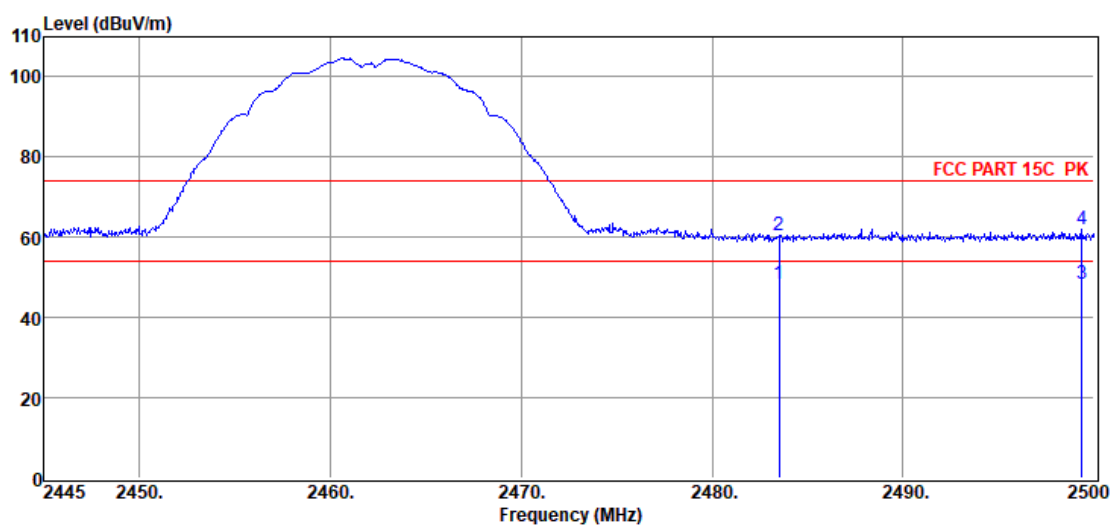
Test Mode : TX Mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D 3#/3m/VERTICAL

Memo : 11B 2462 ANT2

Data: 14



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	18.24	27.57	0.00	1.74	0.73	48.28	54.00	-5.72	Average	VERTICAL
2	2483.50	30.41	27.57	0.00	1.74	0.73	60.45	74.00	-13.55	Peak	VERTICAL
3	2499.34	18.17	27.60	0.00	1.74	0.73	48.24	54.00	-5.76	Average	VERTICAL
4	2499.34	31.99	27.60	0.00	1.74	0.73	62.06	74.00	-11.94	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

C:\E3 6.111\2022 Report Data\Q22011701-2E L065FGE\FCC ABOVE 1G 2.4GWIFI.EM6

Test Date : 2022-02-14

Tested By : Kennys Zhang

EUT : Laser Projector

Model Number : L065FGE

Power Supply : AC 120V/60Hz

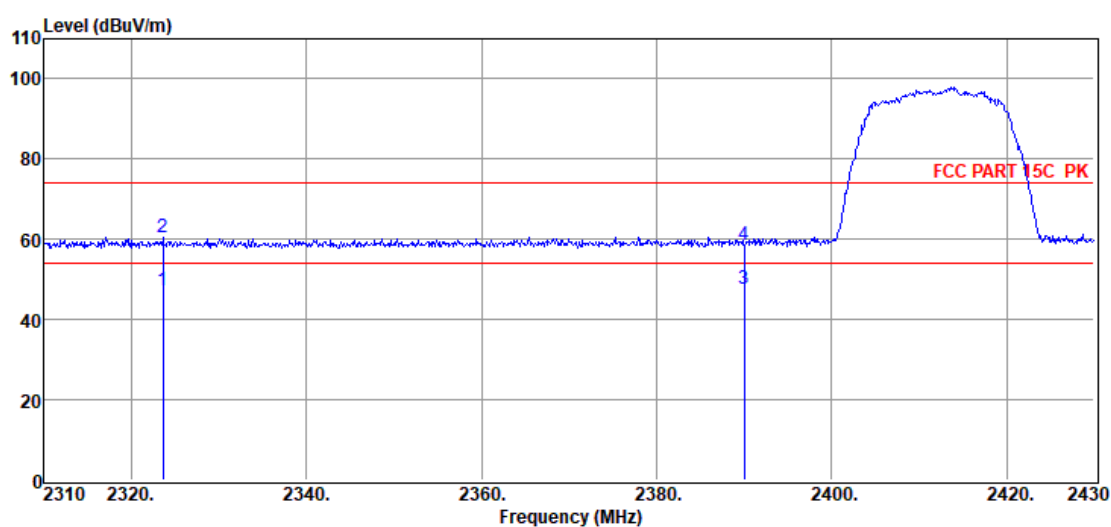
Test Mode : TX Mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D 3#/3m/VERTICAL

Memo : 11G 2412 ANT1

Data: 15



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2323.56	17.57	27.28	0.00	1.69	0.72	47.26	54.00	-6.74	Average	VERTICAL
2	2323.56	30.90	27.28	0.00	1.69	0.72	60.59	74.00	-13.41	Peak	VERTICAL
3	2390.04	17.84	27.40	0.00	1.71	0.72	47.67	54.00	-6.33	Average	VERTICAL
4	2390.04	28.77	27.40	0.00	1.71	0.72	58.60	74.00	-15.40	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

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Test Date : 2022-02-14

Tested By : Kennys Zhang

EUT : Laser Projector

Model Number : L065FGE

Power Supply : AC 120V/60Hz

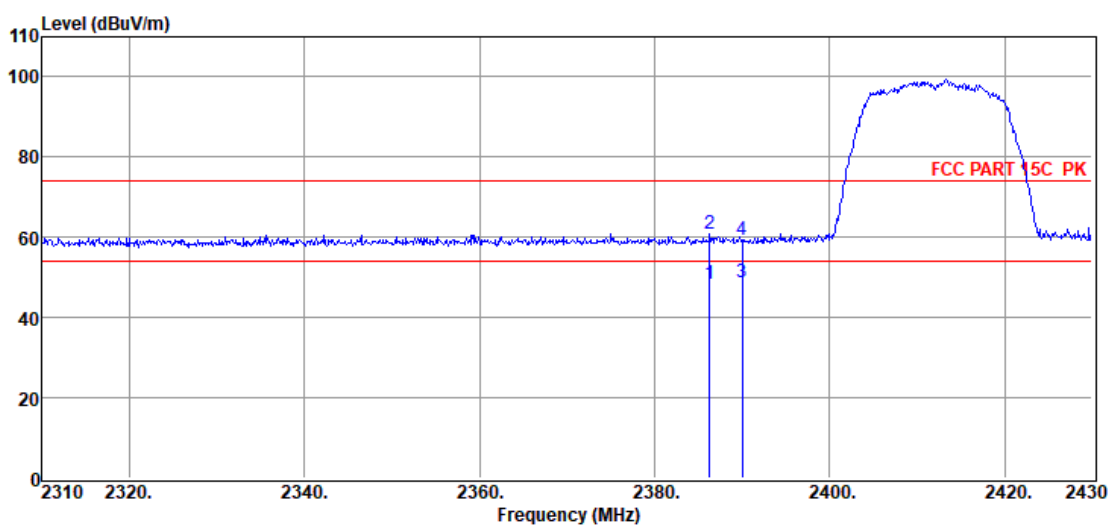
Test Mode : TX Mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D
3#/3m/HORIZONTAL

Memo : 11G 2412 ANT1

Data: 16



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2386.32	18.51	27.40	0.00	1.71	0.72	48.34	54.00	-5.66	Average	HORIZONTAL
2	2386.32	31.04	27.40	0.00	1.71	0.72	60.87	74.00	-13.13	Peak	HORIZONTAL
3	2390.04	18.85	27.40	0.00	1.71	0.72	48.68	54.00	-5.32	Average	HORIZONTAL
4	2390.04	29.36	27.40	0.00	1.71	0.72	59.19	74.00	-14.81	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

C:\E3 6.111\2022 Report Data\Q22011701-2E L065FGE\FCC ABOVE 1G 2.4GWIFI.EM6

Test Date : 2022-02-14

Tested By : Kennys Zhang

EUT : Laser Projector

Model Number : L065FGE

Power Supply : AC 120V/60Hz

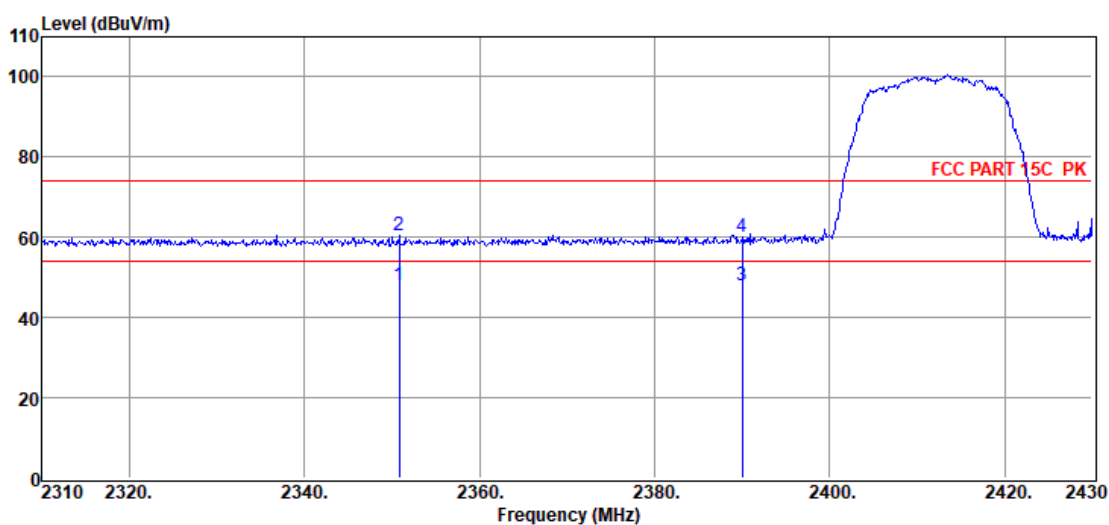
Test Mode : TX Mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D
3#/3m/HORIZONTAL

Memo : 11G 2412 ANT2

Data: 17



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2350.80	18.41	27.33	0.00	1.70	0.72	48.16	54.00	-5.84	Average	HORIZONTAL
2	2350.80	30.87	27.33	0.00	1.70	0.72	60.62	74.00	-13.38	Peak	HORIZONTAL
3	2390.04	18.24	27.40	0.00	1.71	0.72	48.07	54.00	-5.93	Average	HORIZONTAL
4	2390.04	30.17	27.40	0.00	1.71	0.72	60.00	74.00	-14.00	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

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Test Date : 2022-02-14

Tested By : Kennys Zhang

EUT : Laser Projector

Model Number : L065FGE

Power Supply : AC 120V/60Hz

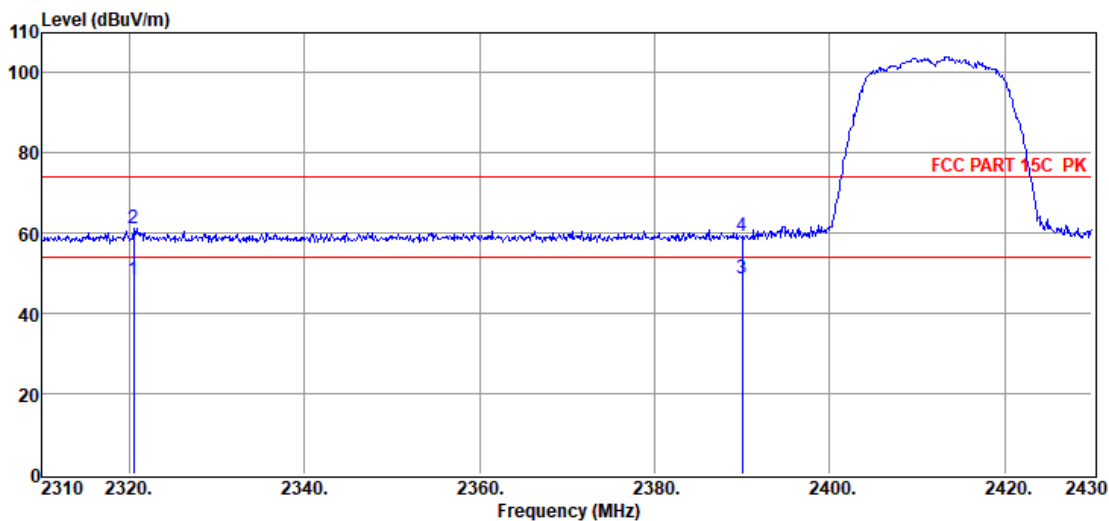
Test Mode : TX Mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D 3#/3m/VERTICAL

Memo : 11G 2412 ANT2

Data: 18



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2320.44	18.65	27.28	0.00	1.69	0.72	48.34	54.00	-5.66	Average	VERTICAL
2	2320.44	31.44	27.28	0.00	1.69	0.72	61.13	74.00	-12.87	Peak	VERTICAL
3	2390.04	18.97	27.40	0.00	1.71	0.72	48.80	54.00	-5.20	Average	VERTICAL
4	2390.04	29.48	27.40	0.00	1.71	0.72	59.31	74.00	-14.69	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

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Test Date : 2022-02-14

Tested By : Kennys Zhang

EUT : Laser Projector

Model Number : L065FGE

Power Supply : AC 120V/60Hz

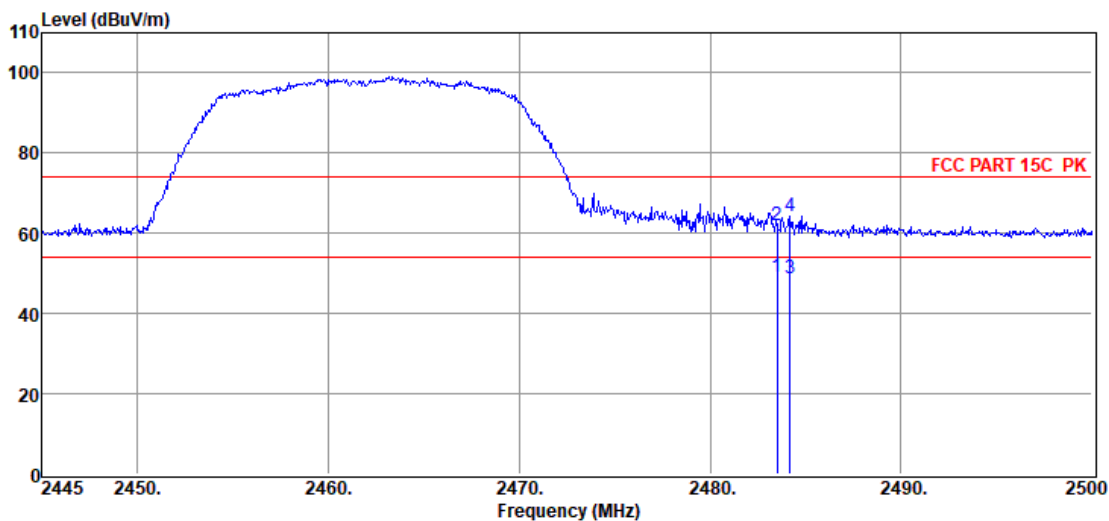
Test Mode : TX Mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D 3#/3m/VERTICAL

Memo : 11G 2462 ANT1

Data: 19



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	18.97	27.57	0.00	1.74	0.73	49.01	54.00	-4.99	Average	VERTICAL
2	2483.50	31.91	27.57	0.00	1.74	0.73	61.95	74.00	-12.05	Peak	VERTICAL
3	2484.16	18.75	27.57	0.00	1.74	0.73	48.79	54.00	-5.21	Average	VERTICAL
4	2484.16	34.31	27.57	0.00	1.74	0.73	64.35	74.00	-9.65	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

C:\E3 6.111\2022 Report Data\Q22011701-2E L065FGE\FCC ABOVE 1G 2.4GWIFI.EM6

Test Date : 2022-02-14

Tested By : Kennys Zhang

EUT : Laser Projector

Model Number : L065FGE

Power Supply : AC 120V/60Hz

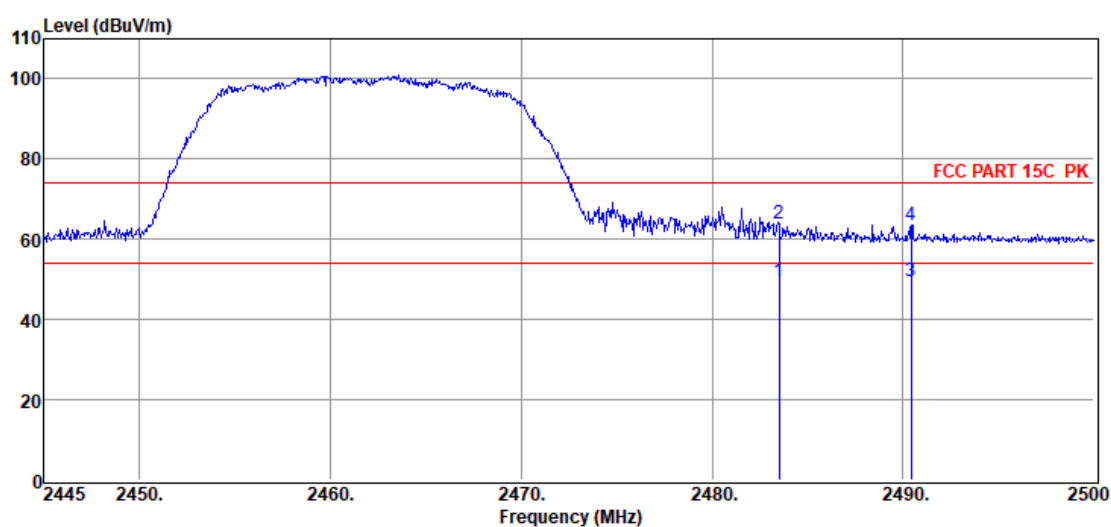
Test Mode : TX Mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D
3#/3m/HORIZONTAL

Memo : 11G 2462 ANT1

Data: 20



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	19.54	27.57	0.00	1.74	0.73	49.58	54.00	-4.42	Average	HORIZONTAL
2	2483.50	33.90	27.57	0.00	1.74	0.73	63.94	74.00	-10.06	Peak	HORIZONTAL
3	2490.43	19.35	27.58	0.00	1.74	0.73	49.40	54.00	-4.60	Average	HORIZONTAL
4	2490.43	33.60	27.58	0.00	1.74	0.73	63.65	74.00	-10.35	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

C:\E3 6.111\2022 Report Data\Q22011701-2E L065FGE\FCC ABOVE 1G 2.4GWIFI.EM6

Test Date : 2022-02-14

Tested By : Kennys Zhang

EUT : Laser Projector

Model Number : L065FGE

Power Supply : AC 120V/60Hz

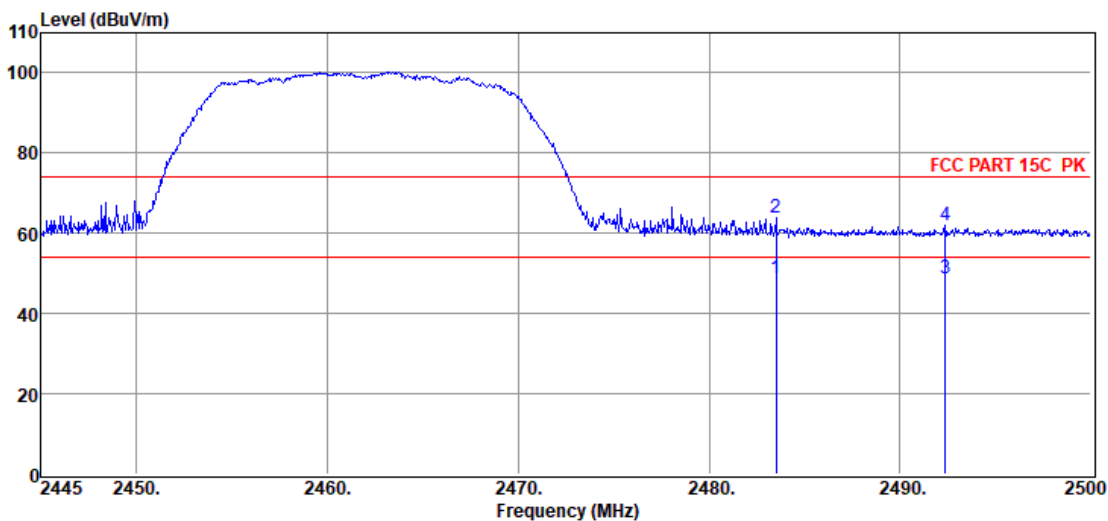
Test Mode : TX Mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D
3#/3m/HORIZONTAL

Memo : 11G 2462 ANT2

Data: 21



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	18.74	27.57	0.00	1.74	0.73	48.78	54.00	-5.22	Average	HORIZONTAL
2	2483.50	33.67	27.57	0.00	1.74	0.73	63.71	74.00	-10.29	Peak	HORIZONTAL
3	2492.36	18.66	27.59	0.00	1.74	0.73	48.72	54.00	-5.28	Average	HORIZONTAL
4	2492.36	31.76	27.59	0.00	1.74	0.73	61.82	74.00	-12.18	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

C:\E3 6.111\2022 Report Data\Q22011701-2E L065FGE\FCC ABOVE 1G 2.4GWIFI.EM6

Test Date : 2022-02-14

Tested By : Kennys Zhang

EUT : Laser Projector

Model Number : L065FGE

Power Supply : AC 120V/60Hz

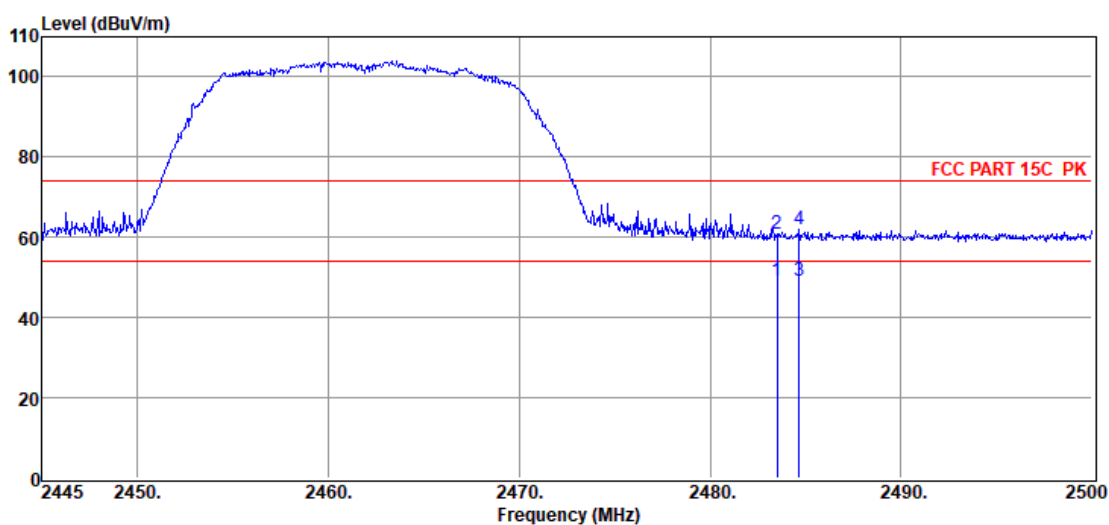
Test Mode : TX Mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D 3#/3m/VERTICAL

Memo : 11G 2462 ANT2

Data: 22



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	19.26	27.57	0.00	1.74	0.73	49.30	54.00	-4.70	Average	VERTICAL
2	2483.50	30.65	27.57	0.00	1.74	0.73	60.69	74.00	-13.31	Peak	VERTICAL
3	2484.66	19.12	27.57	0.00	1.74	0.73	49.16	54.00	-4.84	Average	VERTICAL
4	2484.66	32.12	27.57	0.00	1.74	0.73	62.16	74.00	-11.84	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

C:\E3 6.111\2022 Report Data\Q22011701-2E L065FGE\FCC ABOVE 1G 2.4GWIFI.EM6

Test Date : 2022-02-14

Tested By : Kennys Zhang

EUT : Laser Projector

Model Number : L065FGE

Power Supply : AC 120V/60Hz

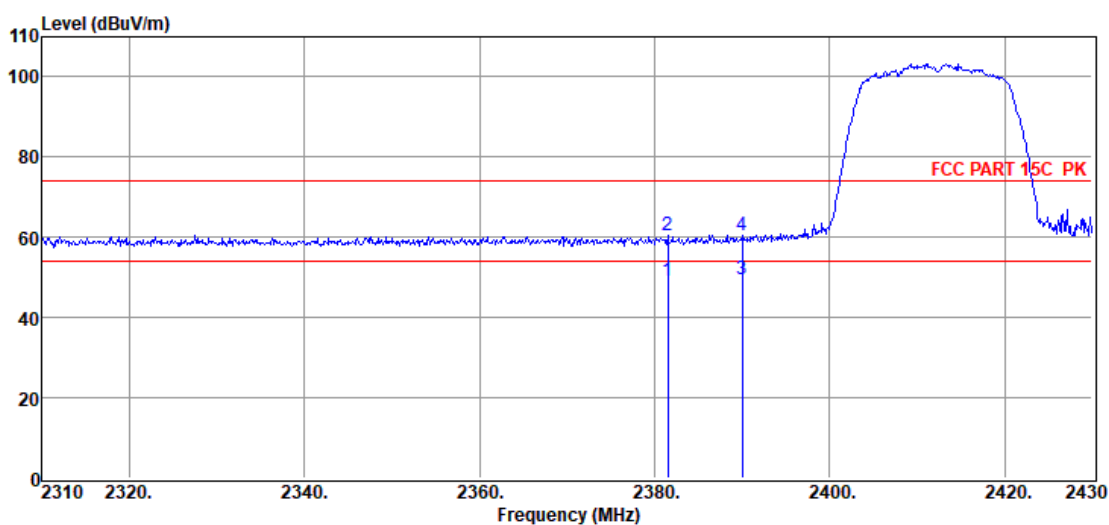
Test Mode : TX Mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D 3#/3m/VERTICAL

Memo : 11N20 2412 MIMO

Data: 23



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2381.52	19.17	27.39	0.00	1.71	0.72	48.99	54.00	-5.01	Average	VERTICAL
2	2381.52	30.77	27.39	0.00	1.71	0.72	60.59	74.00	-13.41	Peak	VERTICAL
3	2390.04	19.57	27.40	0.00	1.71	0.72	49.40	54.00	-4.60	Average	VERTICAL
4	2390.04	30.50	27.40	0.00	1.71	0.72	60.33	74.00	-13.67	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

C:\E3 6.111\2022 Report Data\Q22011701-2E L065FGE\FCC ABOVE 1G 2.4GWIFI.EM6

Test Date : 2022-02-14

Tested By : Kennys Zhang

EUT : Laser Projector

Model Number : L065FGE

Power Supply : AC 120V/60Hz

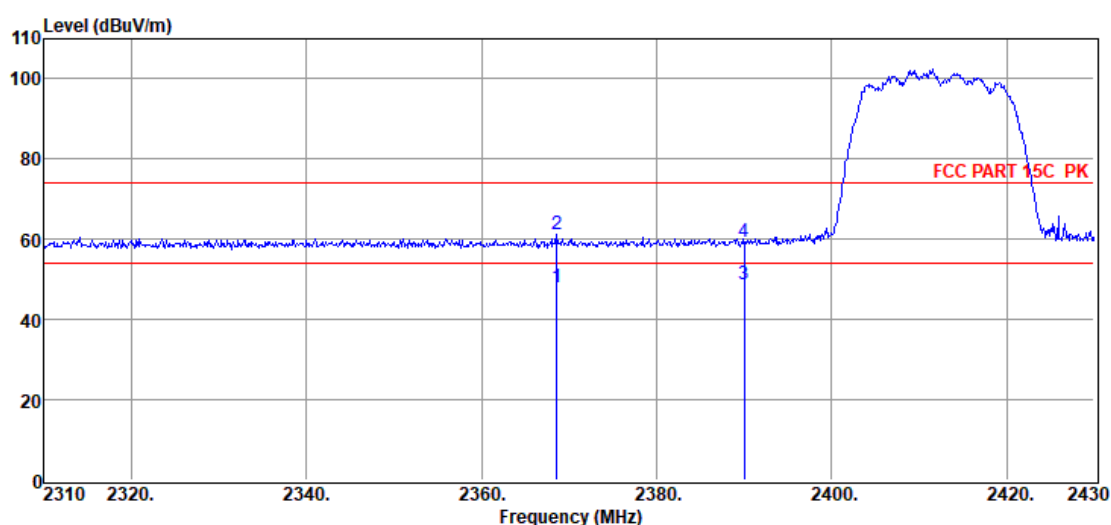
Test Mode : TX Mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D
3#/3m/HORIZONTAL

Memo : 11N20 2412 MIMO

Data: 24



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2368.56	18.28	27.36	0.00	1.70	0.72	48.06	54.00	-5.94	Average	HORIZONTAL
2	2368.56	31.56	27.36	0.00	1.70	0.72	61.34	74.00	-12.66	Peak	HORIZONTAL
3	2390.04	18.94	27.40	0.00	1.71	0.72	48.77	54.00	-5.23	Average	HORIZONTAL
4	2390.04	29.43	27.40	0.00	1.71	0.72	59.26	74.00	-14.74	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

C:\E3 6.111\2022 Report Data\Q22011701-2E L065FGE\FCC ABOVE 1G 2.4GWIFI.EM6

Test Date : 2022-02-15

Tested By : Kennys Zhang

EUT : Laser Projector

Model Number : L065FGE

Power Supply : AC 120V/60Hz

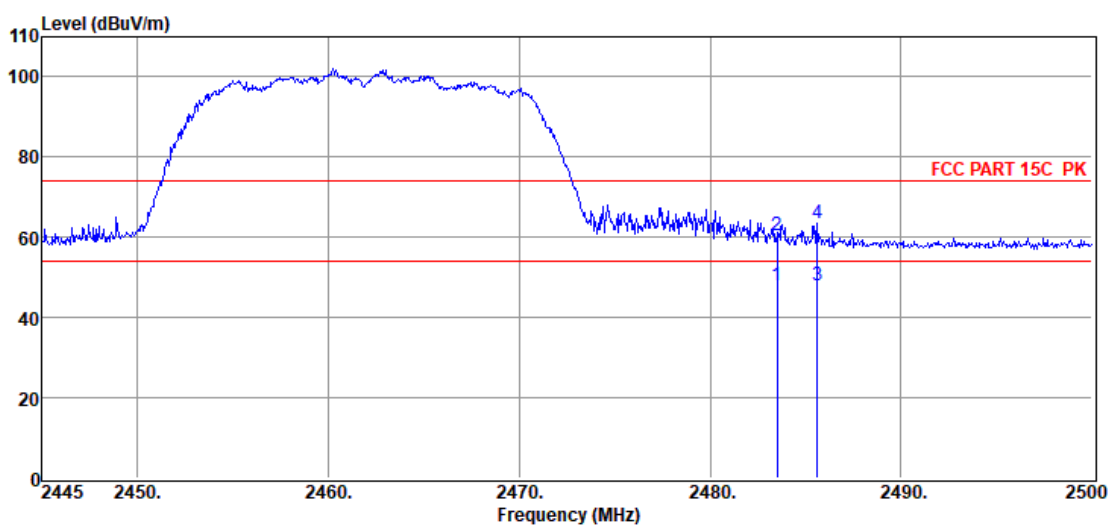
Test Mode : TX Mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D
3#/3m/HORIZONTAL

Memo : 11N20 2462 MIMO

Data: 25



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	18.14	27.57	0.00	1.74	0.73	48.18	54.00	-5.82	Average	HORIZONTAL
2	2483.50	30.45	27.57	0.00	1.74	0.73	60.49	74.00	-13.51	Peak	HORIZONTAL
3	2485.59	18.00	27.57	0.00	1.74	0.73	48.04	54.00	-5.96	Average	HORIZONTAL
4	2485.59	33.36	27.57	0.00	1.74	0.73	63.40	74.00	-10.60	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

C:\E3 6.111\2022 Report Data\Q22011701-2E L065FGE\FCC ABOVE 1G 2.4GWIFI.EM6

Test Date : 2022-02-15

Tested By : Kennys Zhang

EUT : Laser Projector

Model Number : L065FGE

Power Supply : AC 120V/60Hz

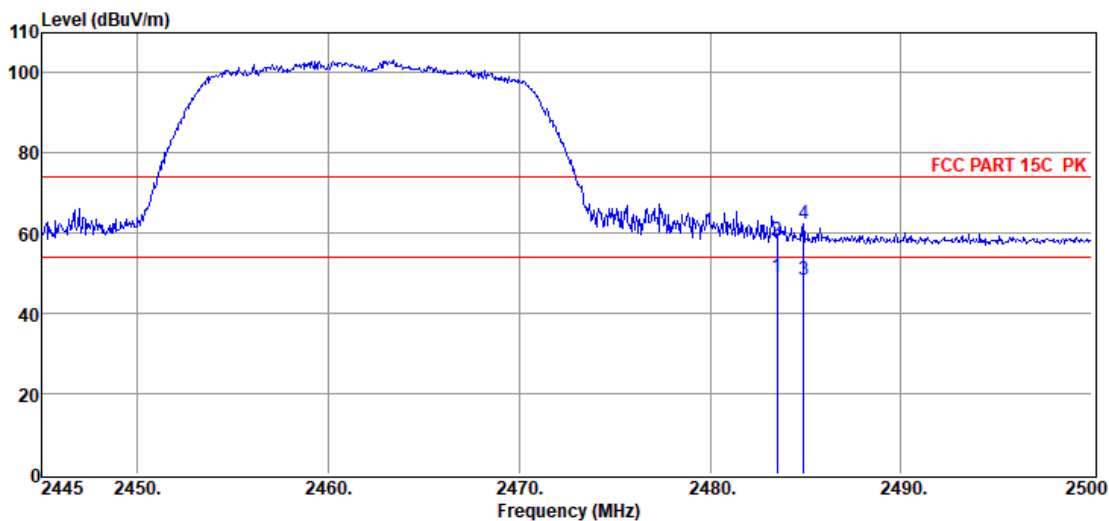
Test Mode : TX Mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D 3#/3m/VERTICAL

Memo : 11N20 2462 MIMO

Data: 26



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	18.97	27.57	0.00	1.74	0.73	49.01	54.00	-4.99	Average	VERTICAL
2	2483.50	28.27	27.57	0.00	1.74	0.73	58.31	74.00	-15.69	Peak	VERTICAL
3	2484.88	18.49	27.57	0.00	1.74	0.73	48.53	54.00	-5.47	Average	VERTICAL
4	2484.88	32.26	27.57	0.00	1.74	0.73	62.30	74.00	-11.70	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

C:\E3 6.111\2022 Report Data\Q22011701-2E L065FGE\FCC ABOVE 1G 2.4GWIFI.EM6

Test Date : 2022-02-15

Tested By : Kennys Zhang

EUT : Laser Projector

Model Number : L065FGE

Power Supply : AC 120V/60Hz

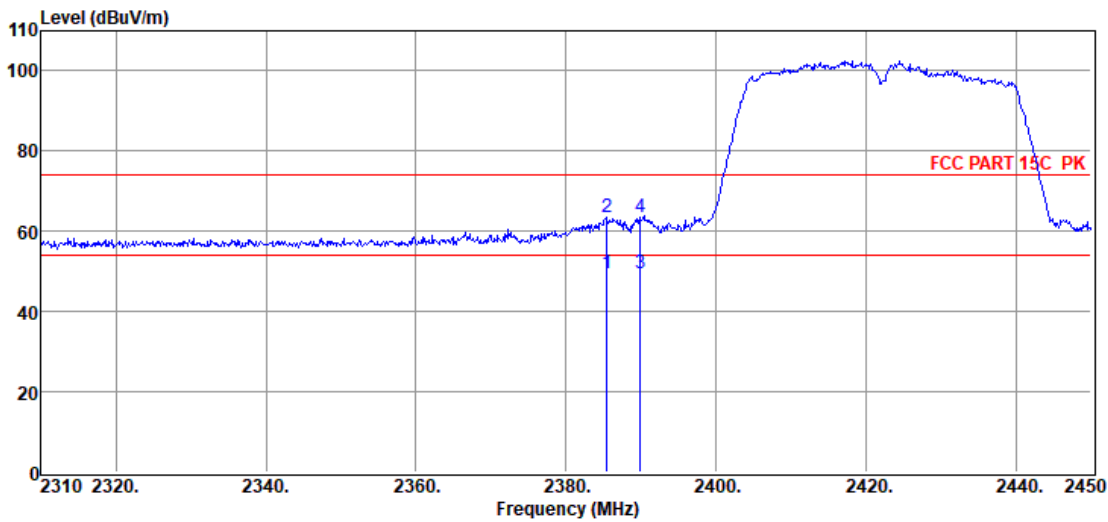
Test Mode : TX Mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D 3#/3m/VERTICAL

Memo : 11N40 2422 MIMO

Data: 27



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2385.46	19.63	27.39	0.00	1.71	0.72	49.45	54.00	-4.55	Average	VERTICAL
2	2385.46	33.71	27.39	0.00	1.71	0.72	63.53	74.00	-10.47	Peak	VERTICAL
3	2389.94	19.72	27.40	0.00	1.71	0.72	49.55	54.00	-4.45	Average	VERTICAL
4	2389.94	33.51	27.40	0.00	1.71	0.72	63.34	74.00	-10.66	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

C:\E3 6.111\2022 Report Data\Q22011701-2E L065FGE\FCC ABOVE 1G 2.4GWIFI.EM6

Test Date : 2022-02-15

Tested By : Kennys Zhang

EUT : Laser Projector

Model Number : L065FGE

Power Supply : AC 120V/60Hz

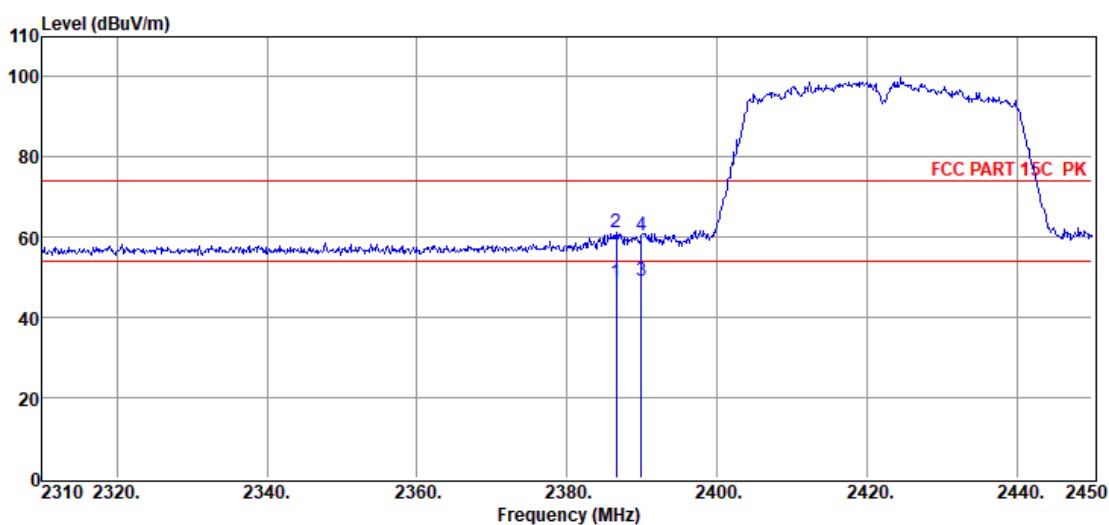
Test Mode : TX Mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D
3#/3m/HORIZONTAL

Memo : 11N40 2422 MIMO

Data: 28



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2386.58	18.97	27.40	0.00	1.71	0.72	48.80	54.00	-5.20	Average	HORIZONTAL
2	2386.58	31.27	27.40	0.00	1.71	0.72	61.10	74.00	-12.90	Peak	HORIZONTAL
3	2389.94	19.13	27.40	0.00	1.71	0.72	48.96	54.00	-5.04	Average	HORIZONTAL
4	2389.94	30.79	27.40	0.00	1.71	0.72	60.62	74.00	-13.38	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

C:\E3 6.111\2022 Report Data\Q22011701-2E L065FGE\FCC ABOVE 1G 2.4GWIFI.EM6

Test Date : 2022-02-15

Tested By : Kennys Zhang

EUT : Laser Projector

Model Number : L065FGE

Power Supply : AC 120V/60Hz

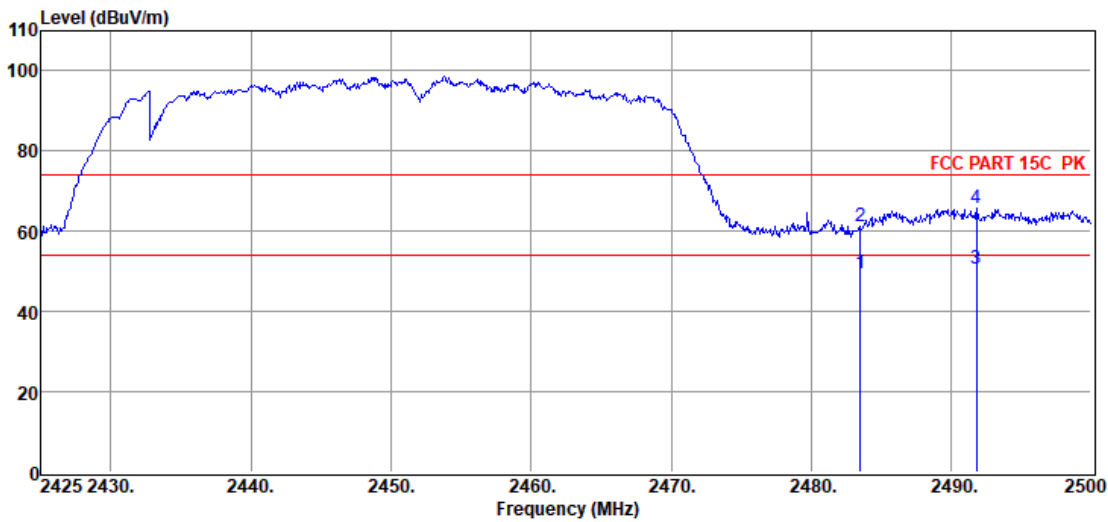
Test Mode : TX Mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2021 BBHA 9120D
3#/3m/HORIZONTAL

Memo : 11N40 2452 MIMO

Data: 29



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	19.64	27.57	0.00	1.74	0.73	49.68	54.00	-4.32	Average	HORIZONTAL
2	2483.50	31.22	27.57	0.00	1.74	0.73	61.26	74.00	-12.74	Peak	HORIZONTAL
3	2491.83	20.42	27.59	0.00	1.74	0.73	50.48	54.00	-3.52	Average	HORIZONTAL
4	2491.83	35.75	27.59	0.00	1.74	0.73	65.81	74.00	-8.19	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

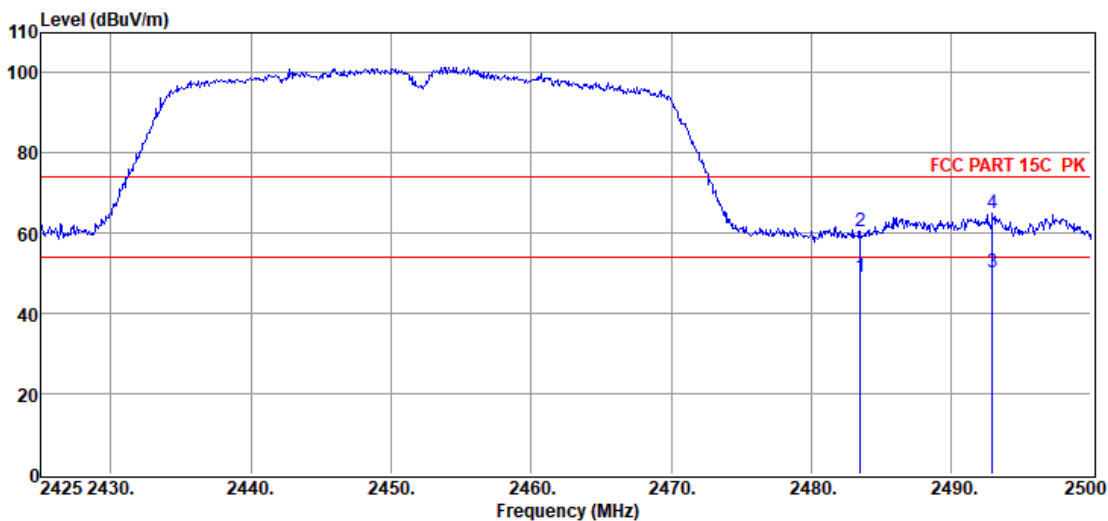
TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

C:\E3 6.111\2022 Report Data\Q22011701-2E L065FGE\FCC ABOVE 1G 2.4GWIFI.EM6

Test Date : 2022-02-15**Tested By** : Kennys Zhang**EUT** : Laser Projector**Model Number** : L065FGE**Power Supply** : AC 120V/60Hz**Test Mode** : TX Mode**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa**Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL**Memo** : 11N40 2452 MIMO

Data: 30



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	19.28	27.57	0.00	1.74	0.73	49.32	54.00	-4.68	Average	VERTICAL
2	2483.50	30.55	27.57	0.00	1.74	0.73	60.59	74.00	-13.41	Peak	VERTICAL
3	2492.95	20.18	27.59	0.00	1.74	0.73	50.24	54.00	-3.76	Average	VERTICAL
4	2492.95	34.82	27.59	0.00	1.74	0.73	64.88	74.00	-9.12	Peak	VERTICAL

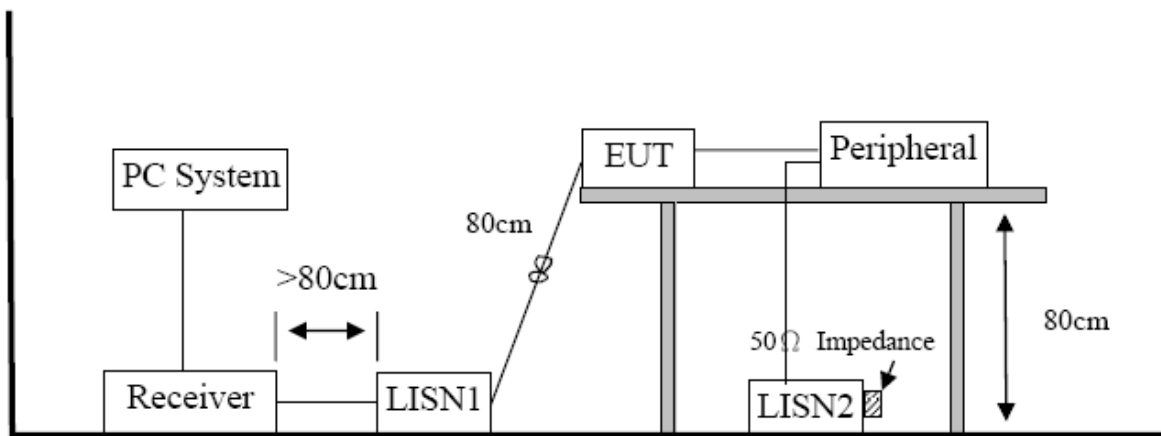
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

10. Power Line Conducted Emission

10.1. Block diagram of test setup



10.2. Power Line Conducted Emission Limits (Class B)

Frequency	Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
150 kHz ~ 500 kHz	66 ~ 56*	56 ~ 46*
500 kHz ~ 5 MHz	56	46
5 MHz ~ 30 MHz	60	50

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

10.3. Test procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

10.4. Test result

Pass. (See below detailed test result)

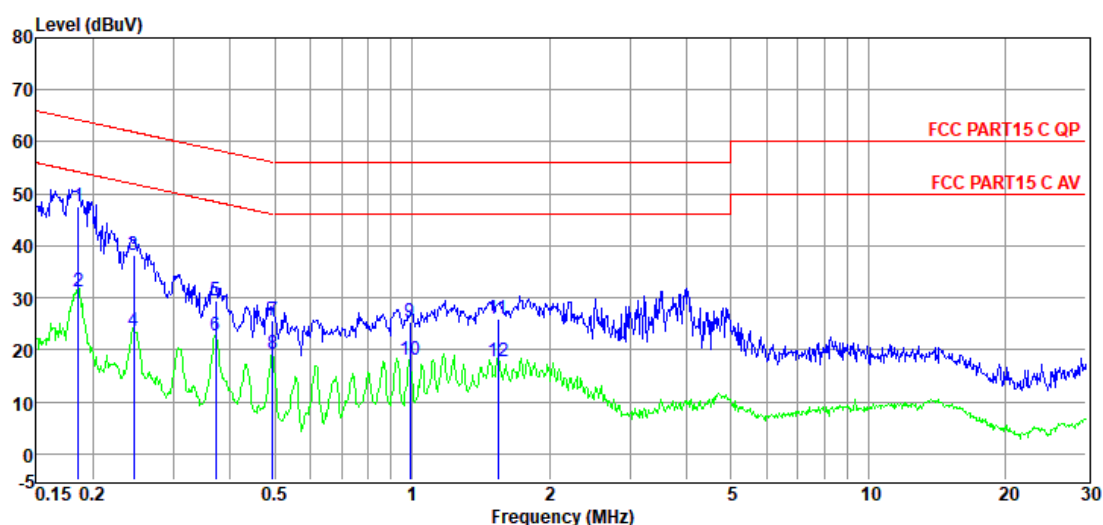
Note1: All emissions not reported below are too low against the prescribed limits.

Note2: "----" means Peak detection; "----" means Average detection.

Note3: Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/50Hz, recorded worse case.

TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 1# Shield Room **D:\2022 CE report date\Q22011701-1E\20220223 CE.EM6**
Test Date : 2022-02-23 **Tested By** : Bote Huang
EUT : Laser Projector **Model Number** : L065FGE
Power Supply : AC 120V/60Hz **Test Mode** : TX mode
Condition : TEMP:21.7°C, RH:45.1%, BP:101.4kPa **LISN** : 2021 1# ENV216/NEUTRAL
Memo :



Item	Freq.	Read Level	LISN Factor	Cable Loss	Pulse Limiter Factor	Result Level	Limit Line	Over Limit	Detector	Phase
(Mark)	(MHz)	(dBμV)	(dB)	(dB)	(dB)	(dBμV)	(dBμV)	(dB)		
1	0.19	27.75	9.80	0.01	9.92	47.48	64.24	-16.76	QP	NEUTRAL
2	0.19	11.53	9.80	0.01	9.92	31.26	54.24	-22.98	Average	NEUTRAL
3	0.25	18.43	9.73	0.02	9.92	38.10	61.91	-23.81	QP	NEUTRAL
4	0.25	4.04	9.73	0.02	9.92	23.71	51.91	-28.20	Average	NEUTRAL
5	0.37	10.02	9.60	0.02	9.91	29.55	58.47	-28.92	QP	NEUTRAL
6	0.37	3.32	9.60	0.02	9.91	22.85	48.47	-25.62	Average	NEUTRAL
7	0.49	6.16	9.50	0.02	9.91	25.59	56.10	-30.51	QP	NEUTRAL
8	0.49	-0.21	9.50	0.02	9.91	19.22	46.10	-26.88	Average	NEUTRAL
9	0.99	5.65	9.70	0.03	9.89	25.27	56.00	-30.73	QP	NEUTRAL
10	0.99	-1.64	9.70	0.03	9.89	17.98	46.00	-28.02	Average	NEUTRAL
11	1.54	6.54	9.64	0.04	9.89	26.11	56.00	-29.89	QP	NEUTRAL
12	1.54	-1.84	9.64	0.04	9.89	17.73	46.00	-28.27	Average	NEUTRAL

Note:

1. Result Level = Read Level + LISN Factor + Pulse Limiter Factor + Cable loss.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 1# Shield Room

D:\2022 CE report date\Q22011701-1E\20220223 CE.EM6

Test Date : 2022-02-23

Tested By : Bote Huang

EUT : Laser Projector

Model Number : L065FGE

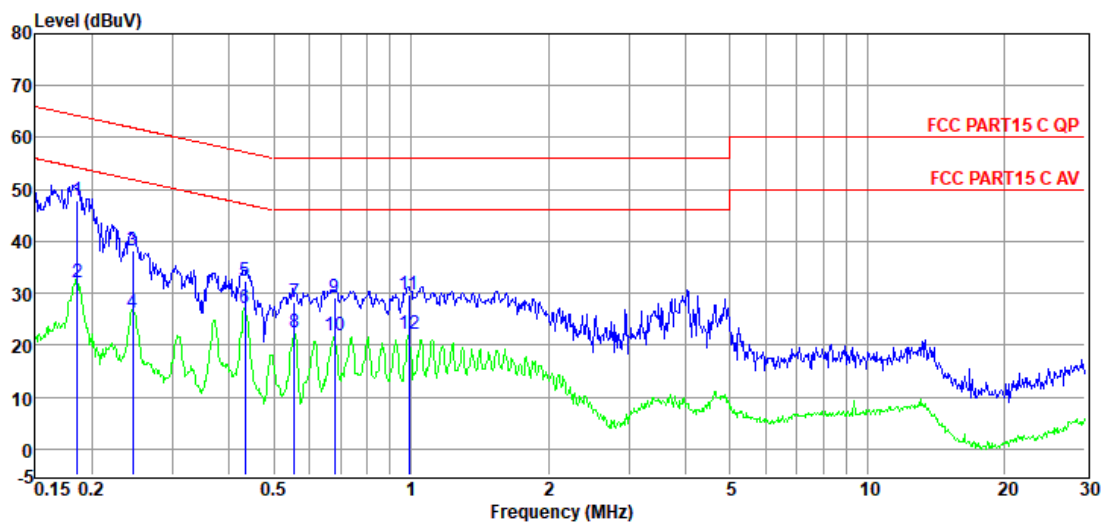
Power Supply : AC 120V/60Hz

Test Mode : TX mode

Condition : TEMP:21.7°C, RH:45.1%, BP:101.4kPa **LISN**

: 2021 1# ENV216/LINE

Memo :



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	LISN Factor (dB)	Cable Loss (dB)	Pulse Limiter Factor (dB)	Result Level (dBμV)	Limit Line (dBμV)	Over Limit (dB)	Detector	Phase
1	0.19	28.05	9.75	0.01	9.92	47.73	64.24	-16.51	QP	LINE
2	0.19	12.30	9.75	0.01	9.92	31.98	54.24	-22.26	Average	LINE
3	0.25	18.63	9.76	0.02	9.92	38.33	61.91	-23.58	QP	LINE
4	0.25	6.62	9.76	0.02	9.92	26.32	51.91	-25.59	Average	LINE
5	0.43	12.77	9.63	0.02	9.91	32.33	57.20	-24.87	QP	LINE
6	0.43	7.52	9.63	0.02	9.91	27.08	47.20	-20.12	Average	LINE
7	0.56	8.66	9.57	0.02	9.91	28.16	56.00	-27.84	QP	LINE
8	0.56	2.93	9.57	0.02	9.91	22.43	46.00	-23.57	Average	LINE
9	0.68	9.69	9.51	0.02	9.91	29.13	56.00	-26.87	QP	LINE
10	0.68	2.38	9.51	0.02	9.91	21.82	46.00	-24.18	Average	LINE
11	0.99	10.18	9.60	0.03	9.89	29.70	56.00	-26.30	QP	LINE
12	0.99	2.62	9.60	0.03	9.89	22.14	46.00	-23.86	Average	LINE

Note:

1. Result Level = Read Level + LISN Factor + Pulse Limiter Factor + Cable loss.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

11. Antenna Requirements

11.1. Limit

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

11.2. Result

The antenna used for this product and no antenna other than that furnished by the responsible party shall be used with the device, maximum antenna ANT1 gain is 1.82 dBi and maximum antenna ANT2 gain is 2.09 dBi.