







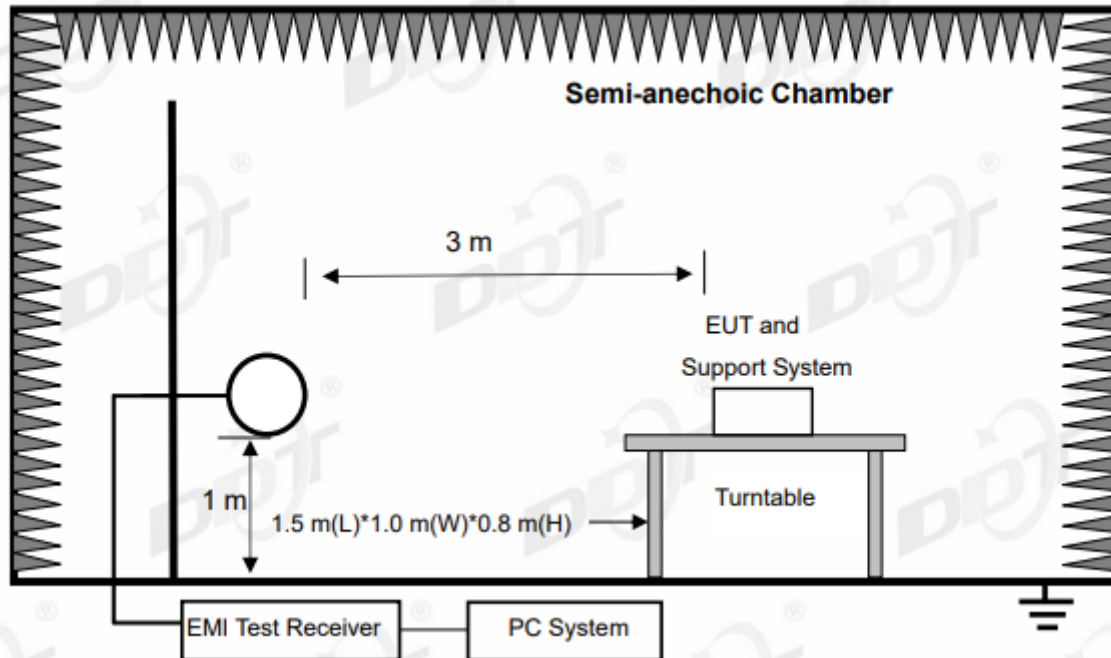




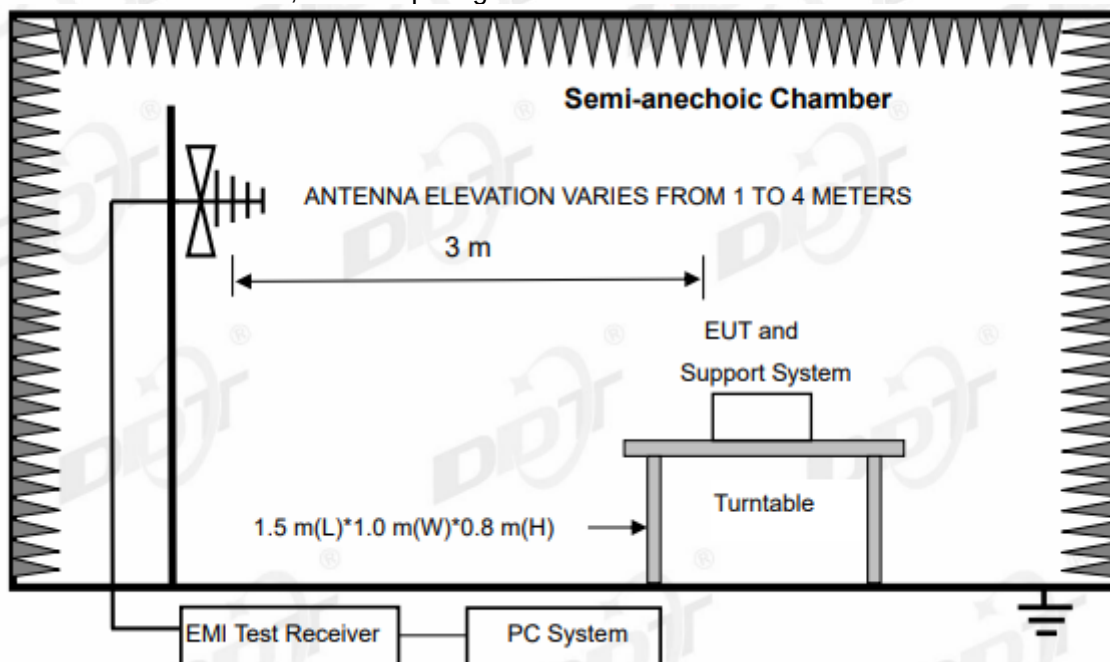
11. Radiated Spurious Emissions

11.1. Block diagram of test setup

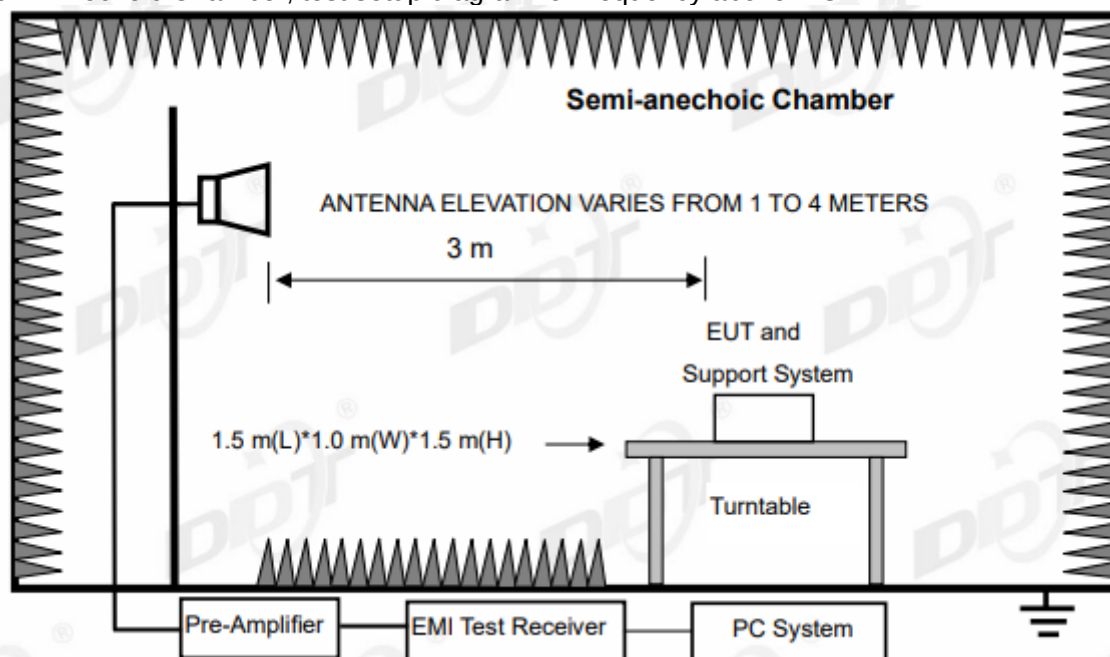
In 3 m Anechoic Chamber, test setup diagram for 9 kHz - 30 MHz:



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.

11.2. Limit

(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&4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.2072&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	156.52475-156.52525	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

RSS-Gen section 8.10 Restricted frequency bands*

MHz	MHz	MHz	GHz
0.090-0.110	12.51975-12.52025	240-285	3.5-4.4
0.495-0.505	12.57675-12.57725	322-335.4	4.5-5.15
2.1735-2.1905	13.36-13.41	399.9-410	5.35-5.46
3.020-3.026	16.42-16.423	608-614	7.25-7.75
4.125-4.128	16.69475-16.69525	960-1427	8.025-8.5
4.1772&4.17775	16.80425-16.80475	1435-1626.5	9.0-9.2
4.2072&4.20775	25.5-25.67	1645.5-1646.5	9.3-9.5
5.677-5.683	37.5-38.25	1660-1710	10.6-12.7
6.215-6.218	73-74.6	1718.8-1722.2	13.25-13.4
6.26775-6.26825	74.8-75.2	2200-2300	14.47-14.5
6.31175-6.31225	108-138	2310-2390	15.35-16.2
8.291-8.294	149.9-150.05	2483.5-2500	17.7-21.4
8.362-8.366	156.52475-156.52525	2655-2900	22.01-23.12
8.37625-8.38675	156.7-156.9	3260-3267	23.6-24.0
8.41425-8.41475	162.0125-167.17	3332-3339	31.2-31.8
12.29-12.293	167.72-173.2	3345.8-3358	36.43-36.5
			Above 38.6

* Certain frequency bands listed in table and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

(2) FCC 15.209 Limit.

Frequency (MHz)	Measurement distance (meters)	Field strength limit	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
0.009 ~ 0.490	300	$2400/\text{F}(\text{kHz})$	$67.6-20\log(\text{F})$
0.490 ~ 1.705	30	$24000/\text{F}(\text{kHz})$	$87.6-20\log(\text{F})$
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 $\text{dB}(\mu\text{V})/\text{m}$ (Peak), 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (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 9-90kHz, 110-490kHz 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:

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

(3) Limit for this EUT

The emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, and the emissions appearing within RSS-Gen section 8.10 Restricted frequency bands shall not exceed the limits shown in RSS-Gen section 8.9, all the other emissions shall be at least 20 dB below the fundamental emissions or comply with 15.209 limits and RSS-Gen section 8.9 limits.

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

According ANSI C63.10:2013 clause 6.4.6 and 6.5.3, for measurements below 30 MHz, Antenna was located 3 m from EUT, the loop antenna was positioned in three antenna orientations (parallel, perpendicular, and round-parallel), for each measurement antenna alignment, the EUT shall be rotated through 0° to 360° on a turntable, and the lowest height of the magnetic antenna shall be 1 m above the ground. For measurement above 30MHz, the trilog Broadband Antenna or Horn Antenna was located 3m 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) For portable device, X axis, Y axis, Z axis are tested, and worse axis is reported.

11.4. 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 limits and RSS-Gen section 8.9 limits.

Note 1: 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.

Note 2: 30 MHz ~ 25 GHz: (Scan with all mode, the worst case is 802.11be EHT20 mode)

Note 3: 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 802.11be EHT 20, Tx 2412 MHz mode.

Note 4: For emissions above 1 GHz. If peak results comply with AV limit, AV Result is deemed to comply with AV limit, only recorded the worst case in this report.

Note5: 2.4G +5G+6G WIFI is the worst simultaneous case and was recorded.

Radiated Emission test (below 1GHz)

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-03-25

Tested By: Junchang Du

EUT: Wireless Access Point

Model Number: RG-RAP73HD

Test Mode: TX Mode

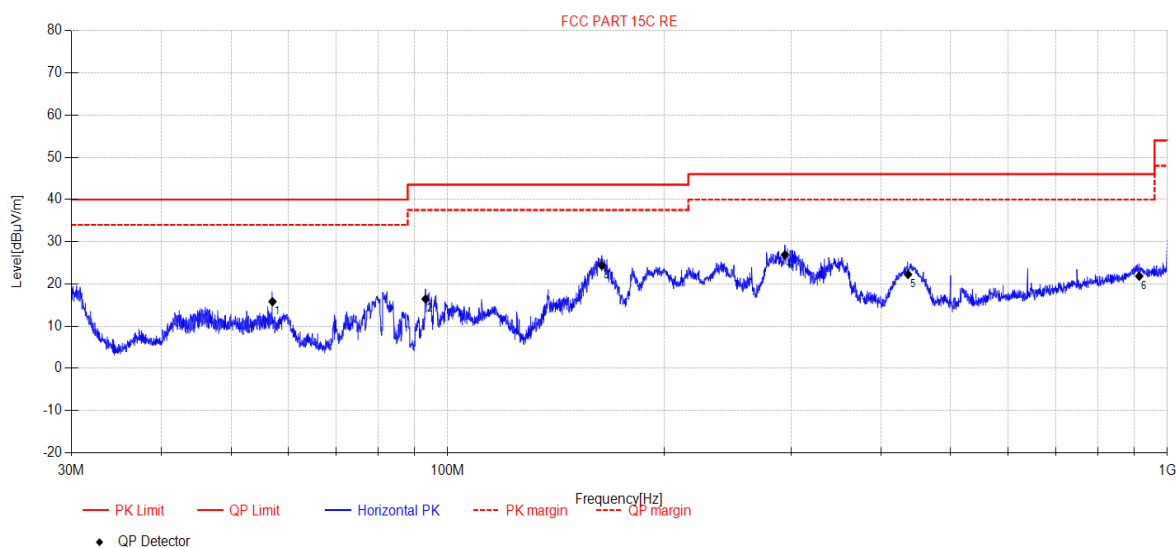
Power Supply: AC 120V/60Hz

Condition: Temp:24.9°C;Humi:66.2%

Test Site: DDT 3# Chamber

File Path: d:\ts\2023 report data\Q23032214 RG-RAP73HD\FCC BELOW 1G\20230325-142138_H

Memo:

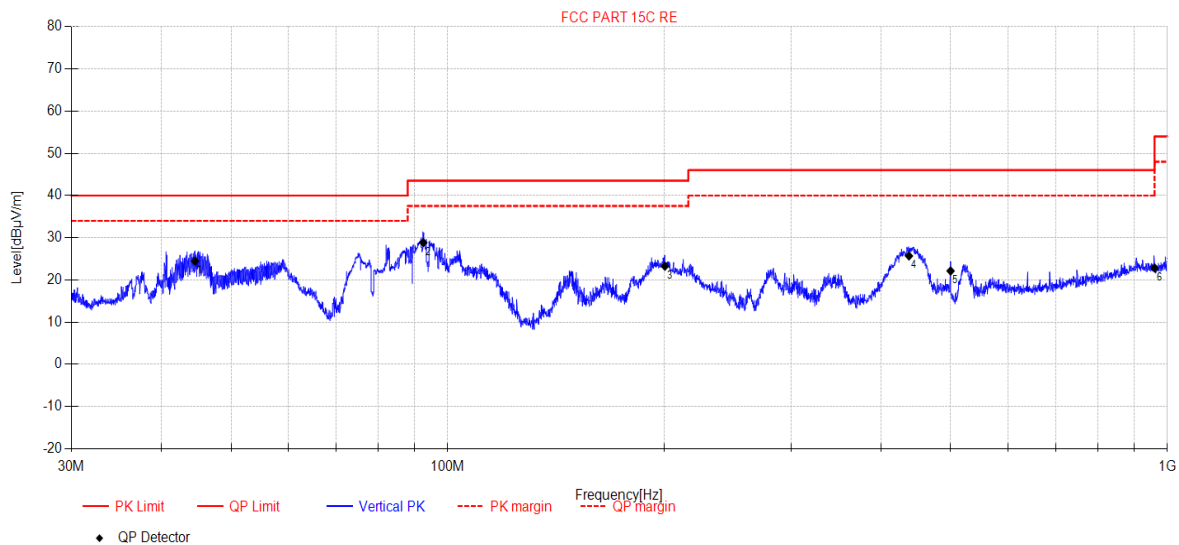


Final Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	57.10	34.63	12.38	1.06	-32.27	15.80	40.00	24.20	QP	Horizontal
2	93.16	37.11	10.03	1.56	-32.25	16.45	43.50	27.05	QP	Horizontal
3	163.70	46.32	8.17	2.10	-32.21	24.38	43.50	19.12	QP	Horizontal
4	294.19	43.31	13.08	2.82	-32.31	26.90	46.00	19.10	QP	Horizontal
5	436.27	35.24	15.93	3.50	-32.42	22.25	46.00	23.75	QP	Horizontal
6	914.16	26.13	22.50	5.26	-32.06	21.83	46.00	24.17	QP	Horizontal

Note:

1. Result Level = Reading + Cable loss + Antenna Factor + AMP
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 Date: 2023-03-25**Tested By:** Junchang Du**EUT:** Wireless Access Point**Model Number:** RG-RAP73HD**Test Mode:** TX Mode**Power Supply:** AC 120V/60Hz**Condition:** Temp:24.9°C;Humi:66.2%**Test Site:** DDT 3# Chamber**File Path:** d:\ts\2023 report data\Q23032214 RG-RAP73HD\FCC BELOW 1G\20230325-142233_V**Memo:**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	44.55	42.88	12.96	0.89	-32.28	24.45	40.00	15.55	QP	Vertical
2	92.51	49.65	9.90	1.55	-32.25	28.85	43.50	14.65	QP	Vertical
3	200.33	42.48	10.71	2.35	-32.28	23.26	43.50	20.24	QP	Vertical
4	437.50	38.66	15.95	3.50	-32.42	25.69	46.00	20.31	QP	Vertical
5	499.84	33.98	17.00	3.68	-32.53	22.13	46.00	23.87	QP	Vertical
6	960.15	26.29	22.70	5.38	-31.53	22.84	54.00	31.16	QP	Vertical

Note:

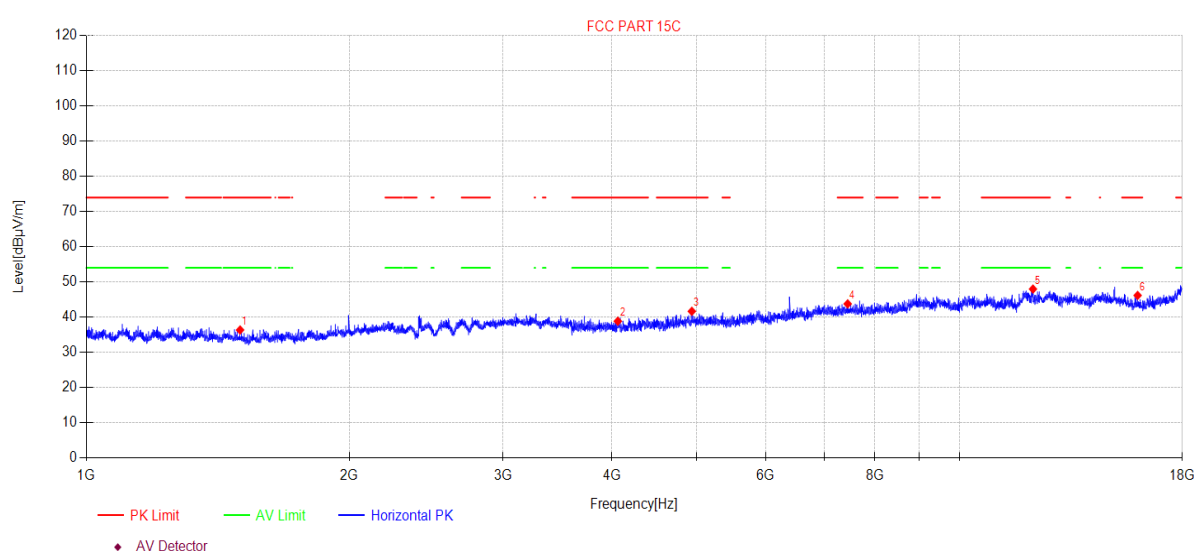
- Result Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

Radiated Emission test (above 1GHz)

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-03-08 **Tested By:** Bairong
EUT: Wireless Access Point **Model Number:** RG-RAP73HD
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23032214 RG-RAP73HD\FCC ABOVE 1G 2.4G\29
Memo: 11BE20MIMO 2412

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1500.02	47.61	2.18	25.50	-38.95	36.34	74.00	37.66	PK	Horizontal
2	4062.06	46.19	3.20	30.82	-41.38	38.83	74.00	35.17	PK	Horizontal
3	4937.06	46.72	3.29	32.75	-41.12	41.64	74.00	32.36	PK	Horizontal
4	7446.47	44.52	3.74	36.50	-41.00	43.76	74.00	30.24	PK	Horizontal
5	12139.37	43.08	4.83	39.10	-39.04	47.97	74.00	26.03	PK	Horizontal
6	15997.88	41.97	6.69	37.90	-40.40	46.16	74.00	27.84	PK	Horizontal

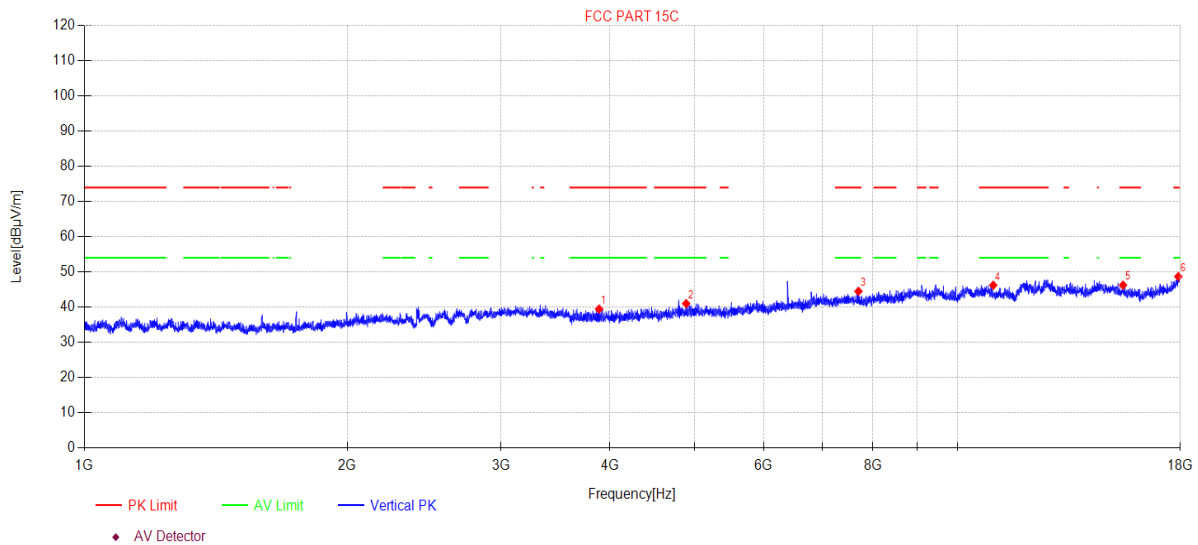
Note:

- Level = Reading + Cable Loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-03-08 **Tested By:** Bairong
EUT: Wireless Access Point **Model Number:** RG-RAP73HD
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23032214 RG-RAP73HD\FCC ABOVE 1G 2.4G\30
Memo: 11BE20MIMO 2412

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3886.36	47.06	3.25	30.47	-41.33	39.45	74.00	34.55	PK	Vertical
2	4890.20	46.25	3.29	32.58	-41.13	40.99	74.00	33.01	PK	Vertical
3	7702.57	45.08	3.80	36.60	-41.00	44.48	74.00	29.52	PK	Vertical
4	10990.54	43.02	4.61	39.10	-40.50	46.23	74.00	27.77	PK	Vertical
5	15474.92	41.33	6.32	38.63	-40.03	46.25	74.00	27.75	PK	Vertical
6	17906.60	39.56	8.55	41.24	-40.66	48.69	74.00	25.31	PK	Vertical

Note:

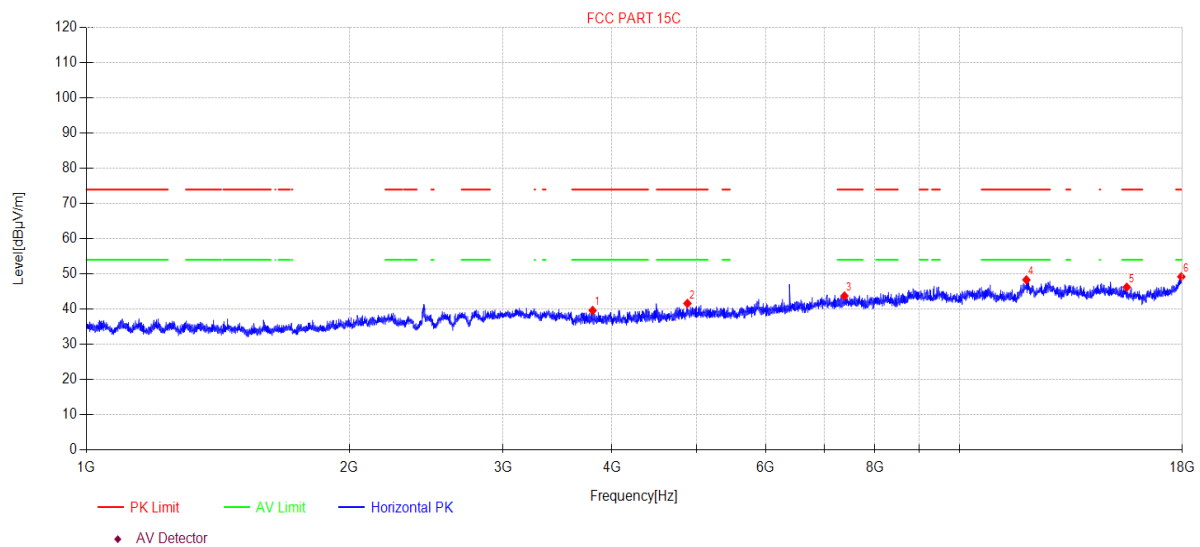
- Level = Reading + Cable Loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-03-08
EUT: Wireless Access Point
Test Mode: TX Mode
Condition: Temp:22.2°C;Humi:56.7%
File Path: d:\ts\2023 report data\Q23032214 RG-RAP73HD\FCC ABOVE 1G 2.4G\31
Memo: 11BE20MIMO 2437

Tested By: Bairong
Model Number: RG-RAP73HD
Power Supply: AC 120V/60Hz
Test Site: DDT 3# Chamber

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3800.83	47.31	3.29	30.30	-41.28	39.62	74.00	34.38	PK	Horizontal
2	4880.32	46.89	3.29	32.56	-41.14	41.60	74.00	32.40	PK	Horizontal
3	7384.32	44.50	3.73	36.50	-41.00	43.73	74.00	30.27	PK	Horizontal
4	11930.68	43.71	4.78	38.83	-39.01	48.31	74.00	25.69	PK	Horizontal
5	15546.64	41.42	6.37	38.51	-40.08	46.22	74.00	27.78	PK	Horizontal
6	17953.24	39.73	8.62	41.52	-40.68	49.19	74.00	24.81	PK	Horizontal

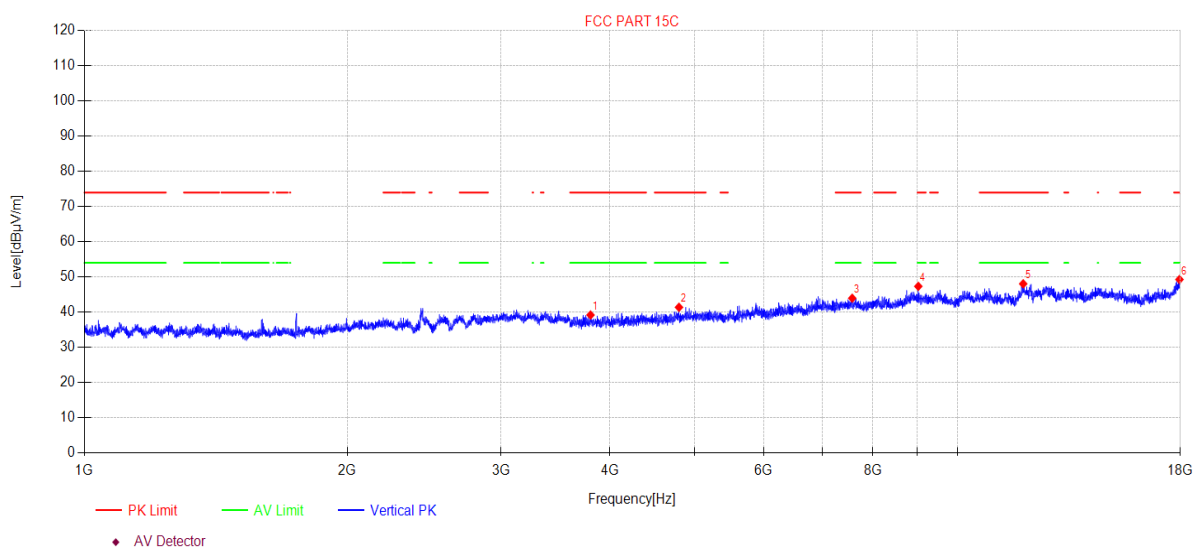
Note:

- Level = Reading + Cable Loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-03-08 **Tested By:** Bairong
EUT: Wireless Access Point **Model Number:** RG-RAP73HD
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23032214 RG-RAP73HD\FCC ABOVE 1G 2.4G\32
Memo: 11BE20MIMO 2437

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3799.73	46.86	3.29	30.30	-41.28	39.17	74.00	34.83	PK	Vertical
2	4797.81	46.96	3.28	32.29	-41.16	41.37	74.00	32.63	PK	Vertical
3	7576.72	44.78	3.77	36.40	-41.00	43.95	74.00	30.05	PK	Vertical
4	9019.18	44.55	3.99	38.20	-39.42	47.32	74.00	26.68	PK	Vertical
5	11892.81	43.54	4.77	38.80	-39.07	48.04	74.00	25.96	PK	Vertical
6	17958.43	39.78	8.62	41.55	-40.68	49.27	74.00	24.73	PK	Vertical

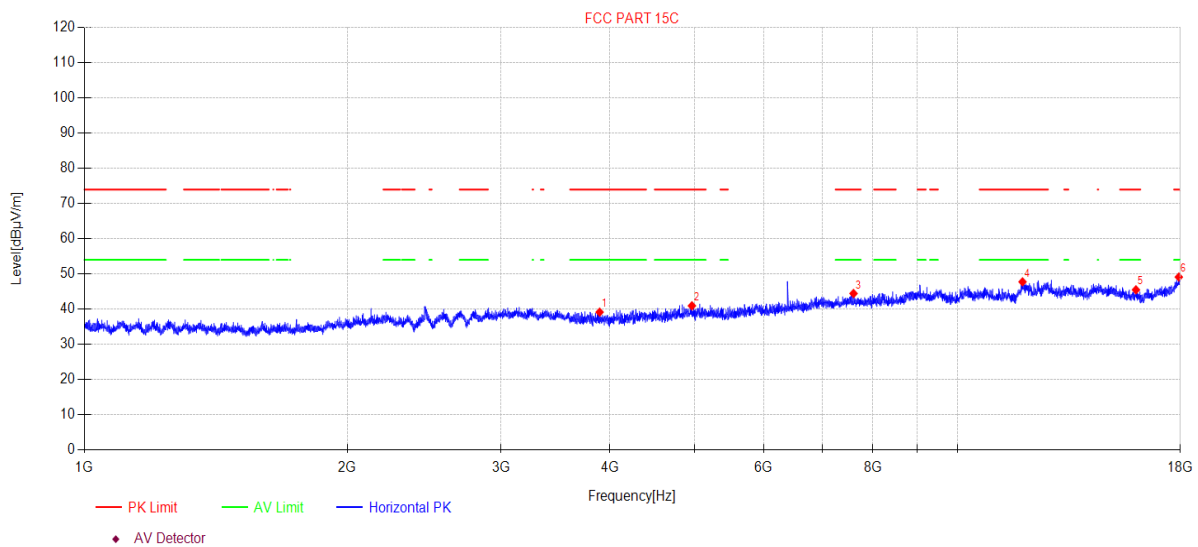
Note:

- Level = Reading + Cable Loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-03-08 **Tested By:** Bairong
EUT: Wireless Access Point **Model Number:** RG-RAP73HD
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23032214 RG-RAP73HD\FCC ABOVE 1G 2.4G\33
Memo: 11BE20MIMO 2462

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3891.98	46.76	3.24	30.48	-41.34	39.14	74.00	34.86	PK	Horizontal
2	4964.25	45.94	3.30	32.80	-41.11	40.93	74.00	33.07	PK	Horizontal
3	7603.05	45.24	3.78	36.41	-41.00	44.43	74.00	29.57	PK	Horizontal
4	11872.20	43.27	4.77	38.80	-39.10	47.74	74.00	26.26	PK	Horizontal
5	16011.76	41.29	6.70	37.89	-40.40	45.48	74.00	28.52	PK	Horizontal
6	17927.32	39.83	8.58	41.36	-40.67	49.10	74.00	24.90	PK	Horizontal

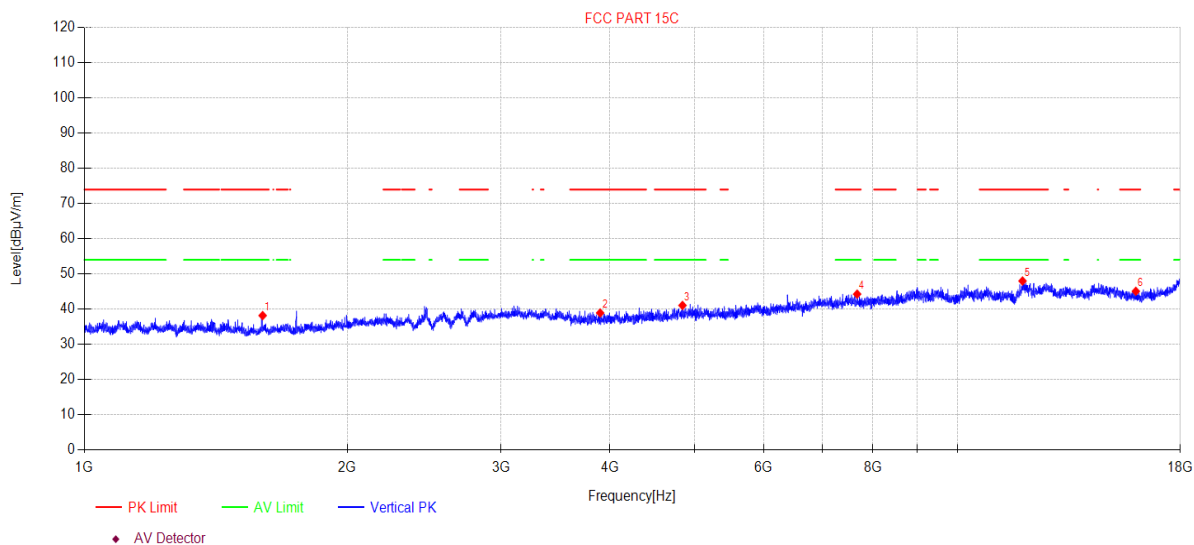
Note:

- Level = Reading + Cable Loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-03-08 **Tested By:** Bairong
EUT: Wireless Access Point **Model Number:** RG-RAP73HD
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23032214 RG-RAP73HD\FCC ABOVE 1G 2.4G\34
Memo: 11BE20MIMO 2462

Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1600.34	49.56	2.30	25.40	-39.10	38.16	74.00	35.84	PK	Vertical
2	3897.60	46.50	3.24	30.50	-41.34	38.90	74.00	35.10	PK	Vertical
3	4842.38	46.44	3.28	32.47	-41.15	41.04	74.00	32.96	PK	Vertical
4	7675.91	44.91	3.80	36.55	-41.00	44.26	74.00	29.74	PK	Vertical
5	11872.20	43.51	4.77	38.80	-39.10	47.98	74.00	26.02	PK	Vertical
6	16007.13	40.89	6.69	37.89	-40.40	45.07	74.00	28.93	PK	Vertical

Note:

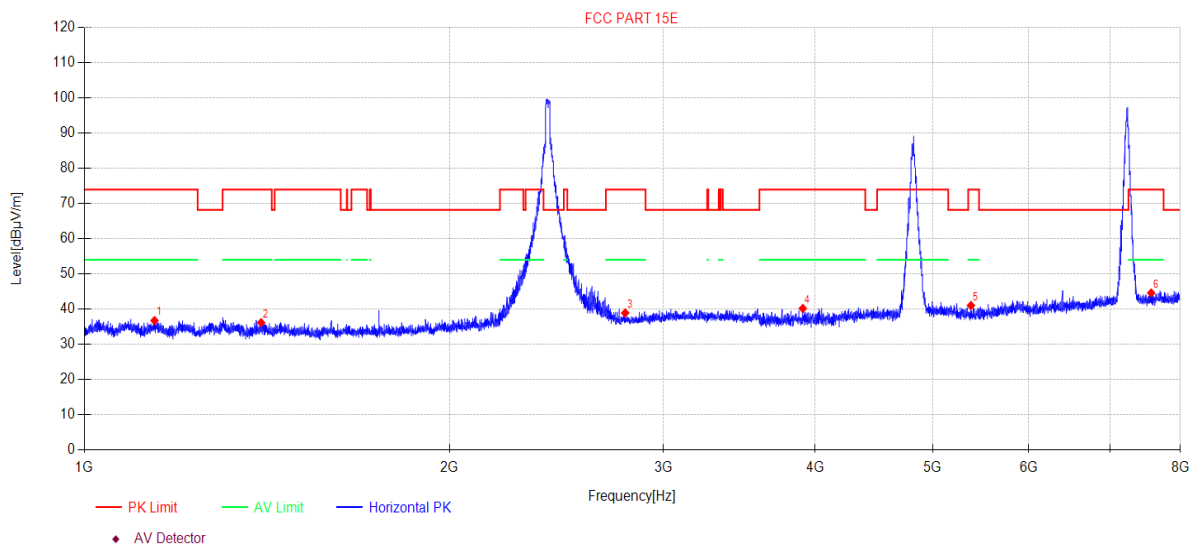
- Level = Reading + Cable Loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-03-10
EUT: Wireless Access Point
Test Mode: TX Mode
Condition: Temp:22.9°C;Humi:54.2%
File Path: d:\ts\2023 report data\Q23032214 RG-RAP73HD\FCC ABOVE 1G\101
Memo: The worst simultaneous 11X20MIMO 2412 MHz, 5700 MHz, 6415 MHz

Tested By: Bairong
Model Number: RG-RAP73HD
Power Supply: AC 120V/60Hz
Test Site: DDT 3# Chamber

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1142.33	47.46	2.11	25.58	-38.41	36.74	74.00	37.26	PK	Horizontal
2	1398.47	47.07	2.27	25.60	-38.80	36.14	74.00	37.86	PK	Horizontal
3	2790.17	47.52	3.47	28.48	-40.57	38.90	74.00	35.10	PK	Horizontal
4	3908.47	47.17	3.84	30.52	-41.35	40.18	74.00	33.82	PK	Horizontal
5	5376.84	44.85	4.22	32.90	-40.95	41.02	74.00	32.98	PK	Horizontal
6	7569.55	44.52	4.66	36.40	-41.00	44.58	74.00	29.42	PK	Horizontal

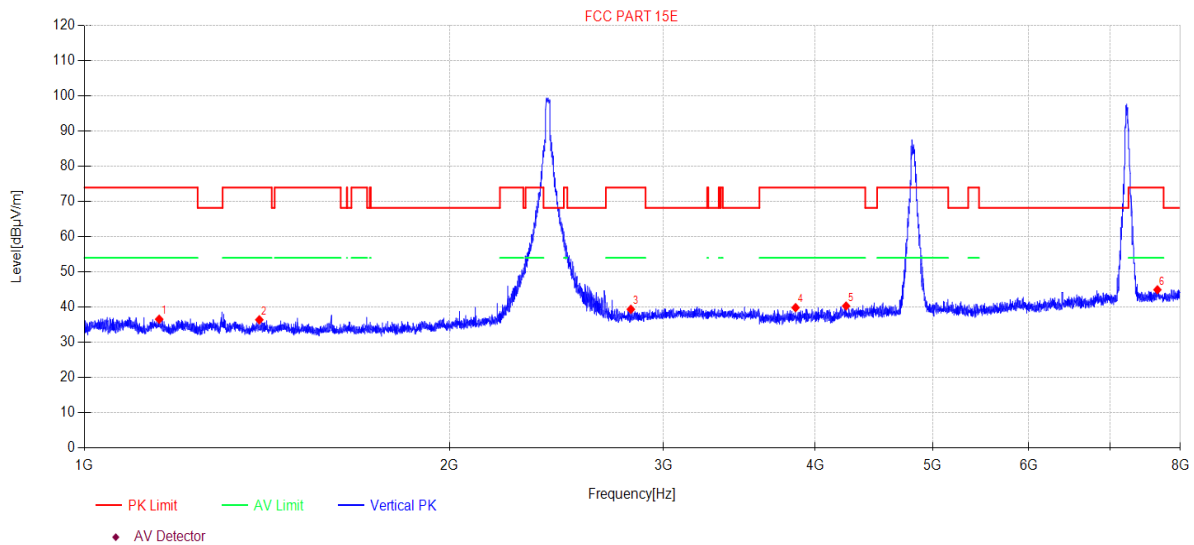
Note:

- Level = Reading + Cable Loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-03-10
EUT: Wireless Access Point
Test Mode: TX Mode
Condition: Temp:22.9°C;Humi:54.2%
File Path: d:\ts\2023 report data\Q23032214 RG-RAP73HD\FCC ABOVE 1G\102
Tested By: Bairong
Model Number: RG-RAP73HD
Power Supply: AC 120V/60Hz
Test Site: DDT 3# Chamber
Memo: The worst simultaneous 11X20MIMO 2412 MHz, 5700 MHz, 6415 MHz

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1152.59	47.26	2.12	25.60	-38.43	36.55	74.00	37.45	PK	Vertical
2	1393.83	47.31	2.27	25.60	-38.79	36.39	74.00	37.61	PK	Vertical
3	2820.50	47.89	3.50	28.58	-40.60	39.37	74.00	34.63	PK	Vertical
4	3855.20	46.91	3.84	30.41	-41.31	39.85	74.00	34.15	PK	Vertical
5	4243.02	46.53	3.91	31.19	-41.33	40.30	74.00	33.70	PK	Vertical
6	7659.80	44.71	4.69	36.52	-41.00	44.92	74.00	29.08	PK	Vertical

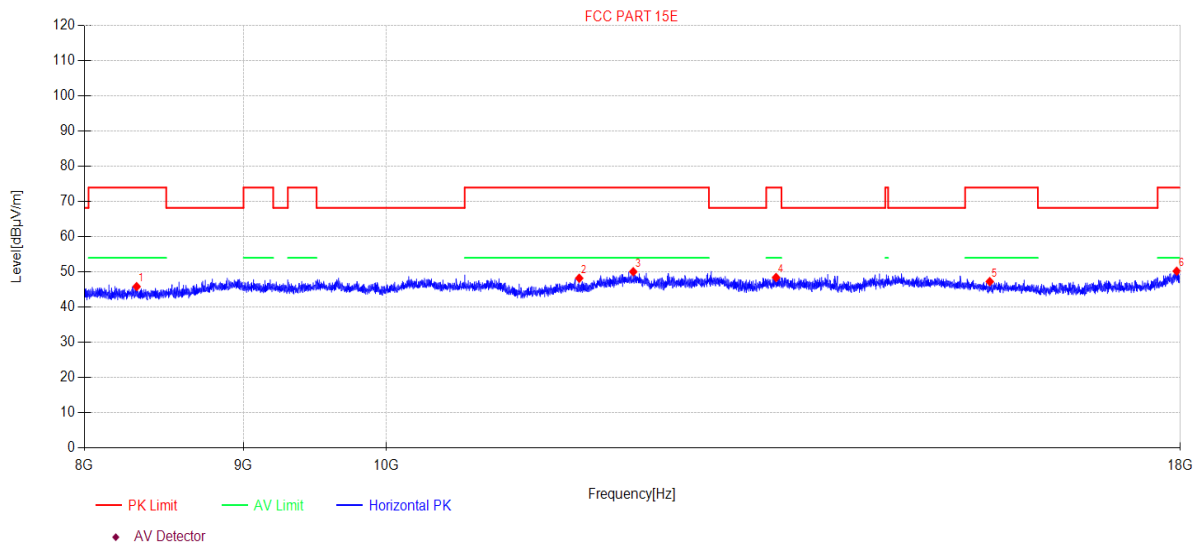
Note:

- Level = Reading + Cable Loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-03-10 **Tested By:** Bairong
EUT: Wireless Access Point **Model Number:** RG-RAP73HD
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.9°C;Humi:54.2% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23032214 RG-RAP73HD\FCC ABOVE 1G\103
Memo: The worst simultaneous 11X20MIMO 2412 MHz, 5700 MHz, 6415 MHz

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	8315.48	43.96	5.17	37.20	-40.50	45.83	74.00	28.17	PK	Horizontal
2	11537.71	42.86	6.02	38.96	-39.64	48.20	74.00	25.80	PK	Horizontal
3	12008.27	43.93	6.12	38.92	-38.91	50.06	74.00	23.94	PK	Horizontal
4	13346.44	41.45	6.72	40.05	-39.80	48.42	74.00	25.58	PK	Horizontal
5	15632.70	41.11	7.91	38.37	-40.14	47.25	74.00	26.75	PK	Horizontal
6	17951.90	40.09	9.28	41.51	-40.68	50.20	74.00	23.80	PK	Horizontal

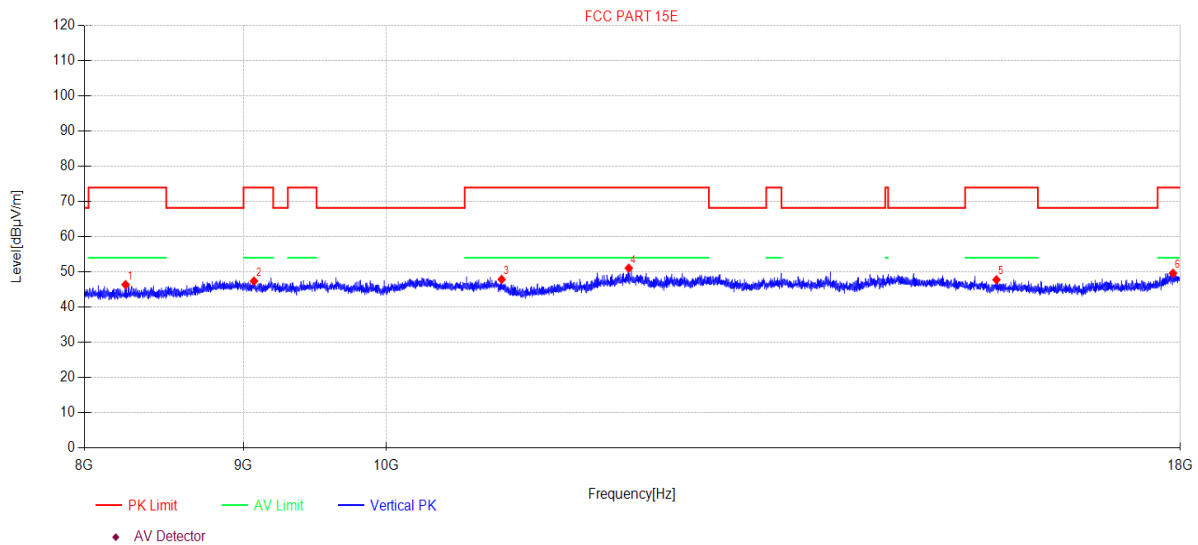
Note:

- Level = Reading + Cable Loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-03-10 **Tested By:** Bairong
EUT: Wireless Access Point **Model Number:** RG-RAP73HD
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.9°C;Humi:54.2% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23032214 RG-RAP73HD\FCC ABOVE 1G\104
Memo: The worst simultaneous 11X20MIMO 2412 MHz, 5700 MHz, 6415 MHz

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	8247.66	44.72	5.16	37.10	-40.60	46.38	74.00	27.62	PK	Vertical
2	9069.90	43.31	5.36	38.20	-39.48	47.39	74.00	26.61	PK	Vertical
3	10894.01	43.41	5.88	39.10	-40.51	47.88	74.00	26.12	PK	Vertical
4	11968.42	45.04	6.11	38.87	-38.95	51.07	74.00	22.93	PK	Vertical
5	15710.22	41.72	7.97	38.29	-40.20	47.78	74.00	26.22	PK	Vertical
6	17902.48	39.82	9.25	41.21	-40.66	49.62	74.00	24.38	PK	Vertical

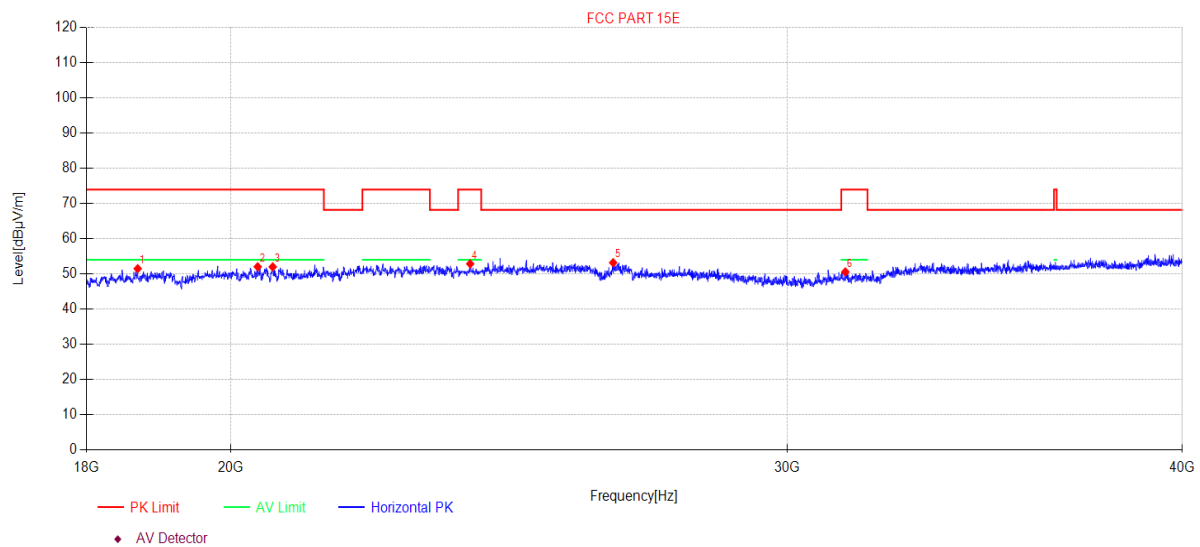
Note:

- Level = Reading + Cable Loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-03-10 **Tested By:** Bairong
EUT: Wireless Access Point **Model Number:** RG-RAP73HD
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.9°C;Humi:54.2% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23032214 RG-RAP73HD\FCC ABOVE 1G\105
Memo: The worst simultaneous 11X20MIMO 2412 MHz, 5700 MHz, 6415 MHz

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	18686.40	48.58	2.91	39.84	-39.84	51.49	74.00	22.51	PK	Horizontal
2	20393.60	49.33	2.70	41.36	-41.36	52.03	74.00	21.97	PK	Horizontal
3	20618.00	49.25	2.74	41.34	-41.34	51.99	74.00	22.01	PK	Horizontal
4	23808.00	49.45	3.43	39.92	-39.92	52.88	74.00	21.12	PK	Horizontal
5	26421.60	49.96	3.23	41.18	-41.18	53.19	68.20	15.01	PK	Horizontal
6	31292.40	47.06	3.50	39.97	-39.97	50.56	74.00	23.44	PK	Horizontal

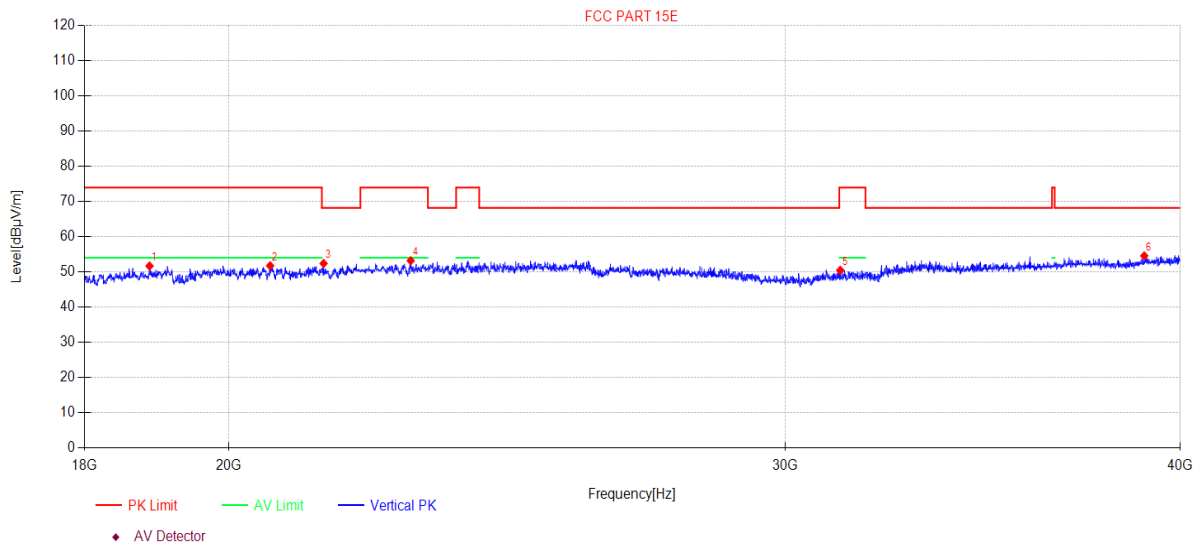
Note:

- Level = Reading + Cable Loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-03-10 **Tested By:** Bairong
EUT: Wireless Access Point **Model Number:** RG-RAP73HD
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.9°C;Humi:54.2% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23032214 RG-RAP73HD\FCC ABOVE 1G\106
Memo: The worst simultaneous 11X20MIMO 2412 MHz, 5700 MHz, 6415 MHz

Test Graph



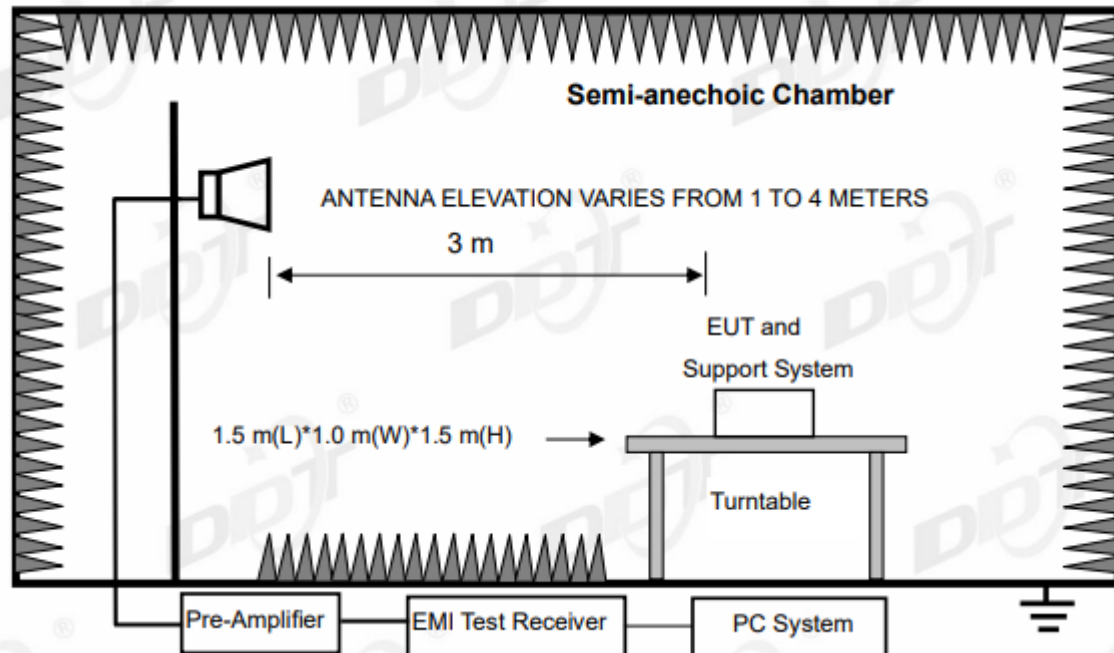
Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	18875.60	48.70	2.98	39.94	-39.94	51.68	74.00	22.32	PK	Vertical
2	20609.20	49.02	2.74	41.34	-41.34	51.76	74.00	22.24	PK	Vertical
3	21427.60	49.45	2.94	41.17	-41.17	52.39	68.20	15.81	PK	Vertical
4	22831.20	49.95	3.25	40.50	-40.50	53.20	74.00	20.80	PK	Vertical
5	31222.00	46.99	3.48	39.98	-39.98	50.47	74.00	23.53	PK	Vertical
6	38961.60	47.62	6.95	40.58	-40.58	54.57	68.20	13.63	PK	Vertical

Note:

- Level = Reading + Cable Loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

12. Radiated Band Edge Compliance

12.1. Block diagram of test setup



12.2. 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 RSS-Gen Issue 5 clause 6.13.2 (Same as FCC 15.209) limits.

12.3. Test procedure

Same with Radiated Spurious Emissions except change investigated frequency range from 2310 MHz to 2430 MHz and 2445 MHz to 2500 MHz.

Remark:

1. For 802.11be, according exploratory explorer test, when the RU SIZE is smaller, the Radiated Band Edge is worse, so for 802.11be only the smallest RU and the Full RU mode is shown in report.
2. For 802.11b/g, according exploratory explorer test, the final test was only performed with antenna 2.

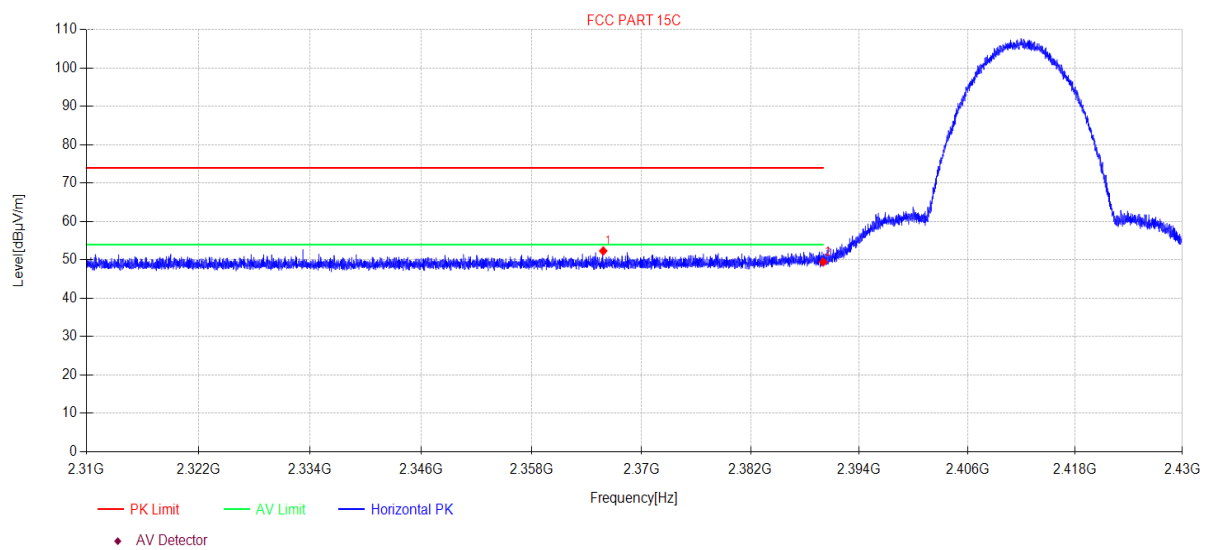
12.4. Test result

Pass. (See below detailed test result)

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-05-19 **Tested By:** Bairong
EUT: Wireless Access Point **Model Number:** RG-RAP73HD
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23032214 RG-RAP73HD\FCC ABOVE 1G 2.4G\67
Memo: 11B 2412

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2365.84	51.24	3.76	27.43	-30.10	52.33	74.00	21.67	PK	Horizontal
2	2390.00	48.33	3.78	27.48	-30.13	49.46	74.00	24.54	PK	Horizontal

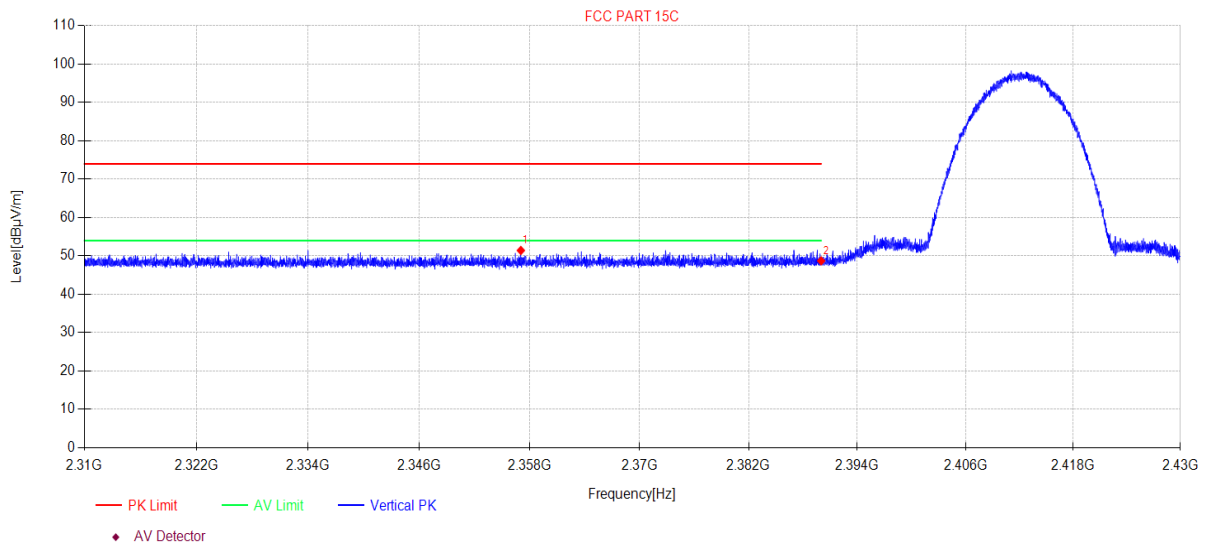
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-05-19 **Tested By:** Bairong
EUT: Wireless Access Point **Model Number:** RG-RAP73HD
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23032214 RG-RAP73HD\FCC ABOVE 1G 2.4G\68
Memo: 11B 2412

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2357.06	50.35	3.75	27.41	-30.09	51.42	74.00	22.58	PK	Vertical
2	2390.00	47.58	3.78	27.48	-30.13	48.71	74.00	25.29	PK	Vertical

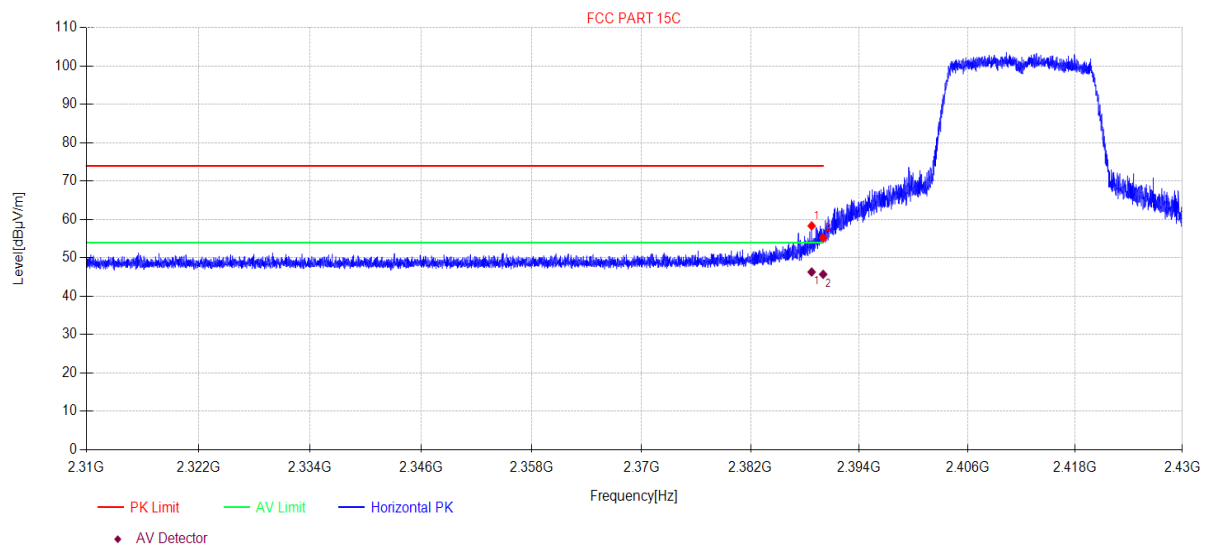
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
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 Date: 2023-05-19 **Tested By:** Bairong
EUT: Wireless Access Point **Model Number:** RG-RAP73HD
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23032214 RG-RAP73HD\FCC ABOVE 1G 2.4G\79
Memo: 11G 2412

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2388.73	57.23	3.78	27.48	-30.13	58.36	74.00	15.64	PK	Horizontal
2	2390.00	54.08	3.78	27.48	-30.13	55.21	74.00	18.79	PK	Horizontal

Final Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2388.73	45.20	3.78	27.48	-30.13	46.33	54.00	7.67	AV	Horizontal
2	2390.00	44.59	3.78	27.48	-30.13	45.72	54.00	8.28	AV	Horizontal

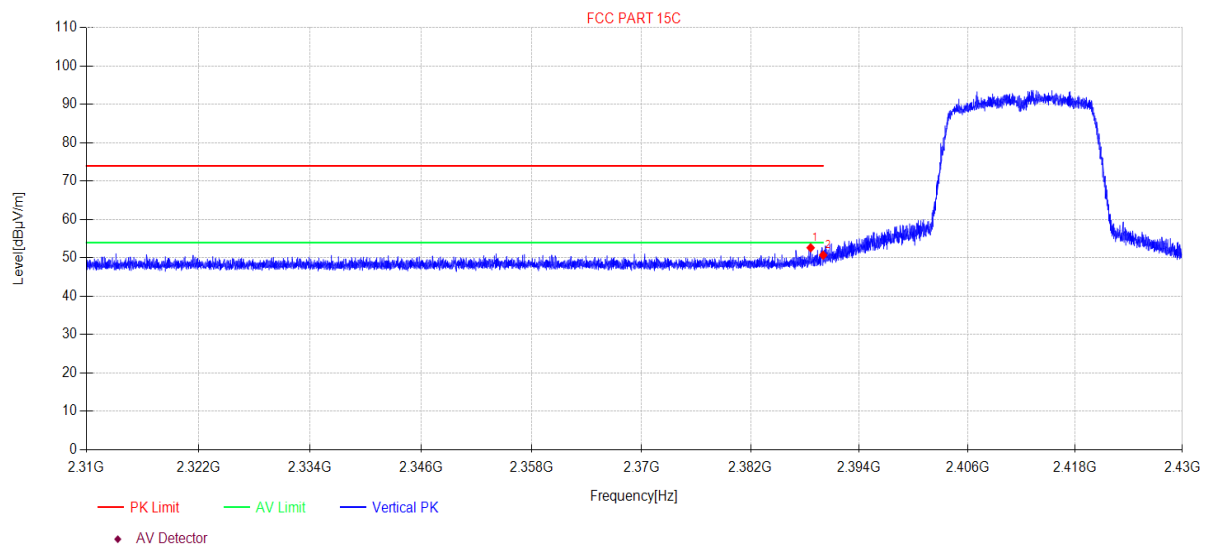
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
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 Date: 2023-05-19 **Tested By:** Bairong
EUT: Wireless Access Point **Model Number:** RG-RAP73HD
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23032214 RG-RAP73HD\FCC ABOVE 1G 2.4G\80
Memo: 11G 2412

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2388.62	51.52	3.78	27.48	-30.13	52.65	74.00	21.35	PK	Vertical
2	2390.00	49.59	3.78	27.48	-30.13	50.72	74.00	23.28	PK	Vertical

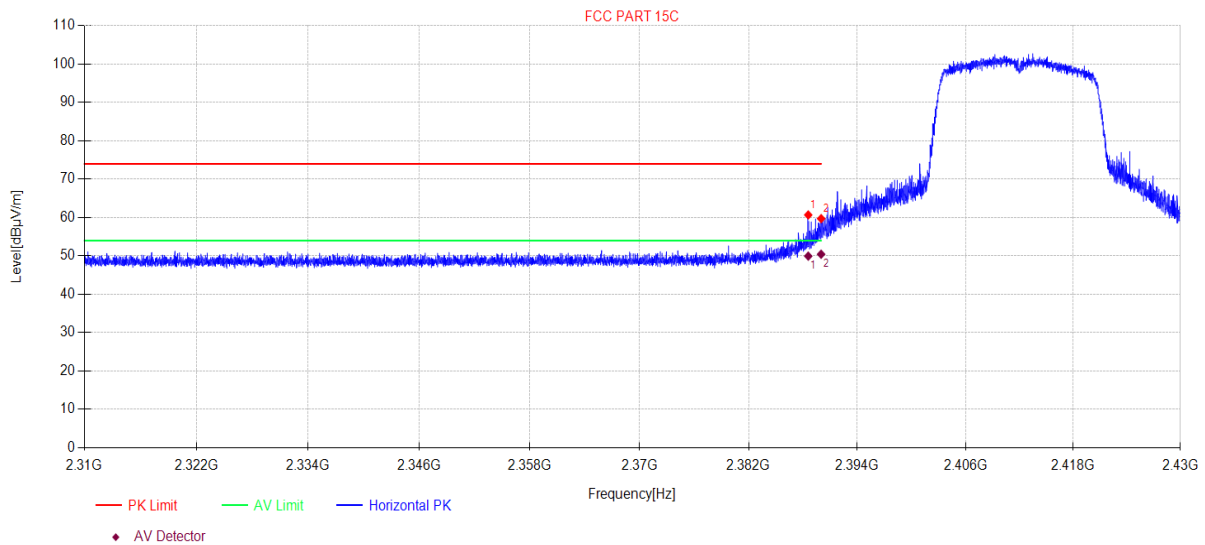
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
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 Date: 2023-05-19 **Tested By:** Bairong
EUT: Wireless Access Point **Model Number:** RG-RAP73HD
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23032214 RG-RAP73HD\FCC ABOVE 1G 2.4G\81
Memo: 11N20MIMO 2412

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2388.58	59.55	3.78	27.48	-30.13	60.68	74.00	13.32	PK	Horizontal
2	2390.00	58.59	3.78	27.48	-30.13	59.72	74.00	14.28	PK	Horizontal

Final Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2388.58	48.82	3.78	27.48	-30.13	49.95	54.00	4.05	AV	Horizontal
2	2390.00	49.31	3.78	27.48	-30.13	50.44	54.00	3.56	AV	Horizontal

Note:

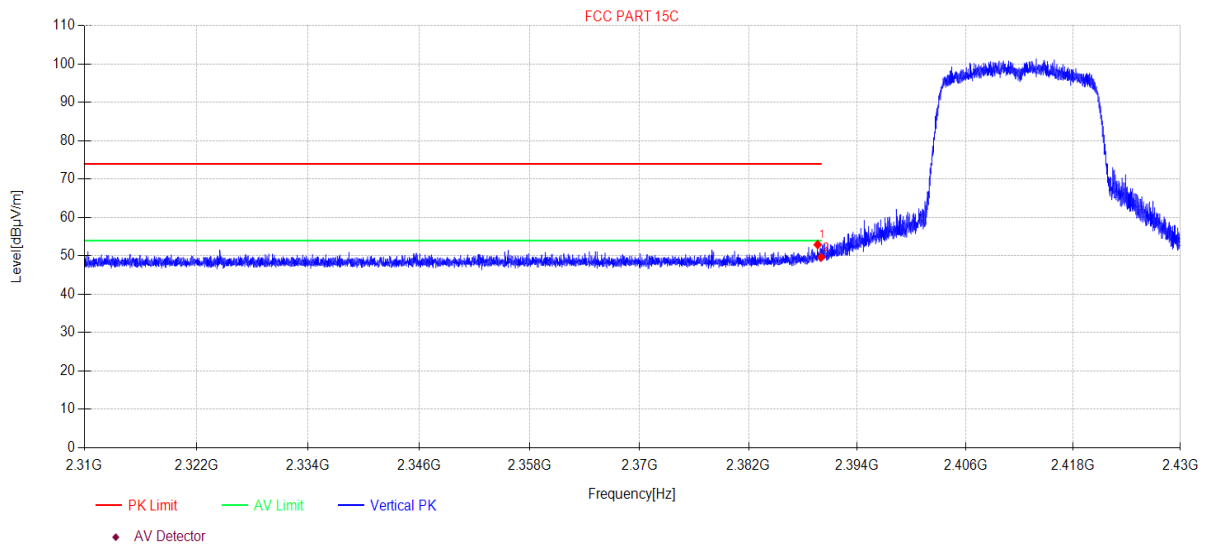
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-05-19
EUT: Wireless Access Point
Test Mode: TX Mode
Condition: Temp:22.2°C;Humi:56.7%
File Path: d:\ts\2023 report data\Q23032214 RG-RAP73HD\FCC ABOVE 1G 2.4G\82
Memo: 11N20MIMO 2412

Tested By: Bairong
Model Number: RG-RAP73HD
Power Supply: AC 120V/60Hz
Test Site: DDT 3# Chamber

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2389.62	51.81	3.78	27.48	-30.13	52.94	74.00	21.06	PK	Vertical
2	2390.00	48.51	3.78	27.48	-30.13	49.64	74.00	24.36	PK	Vertical

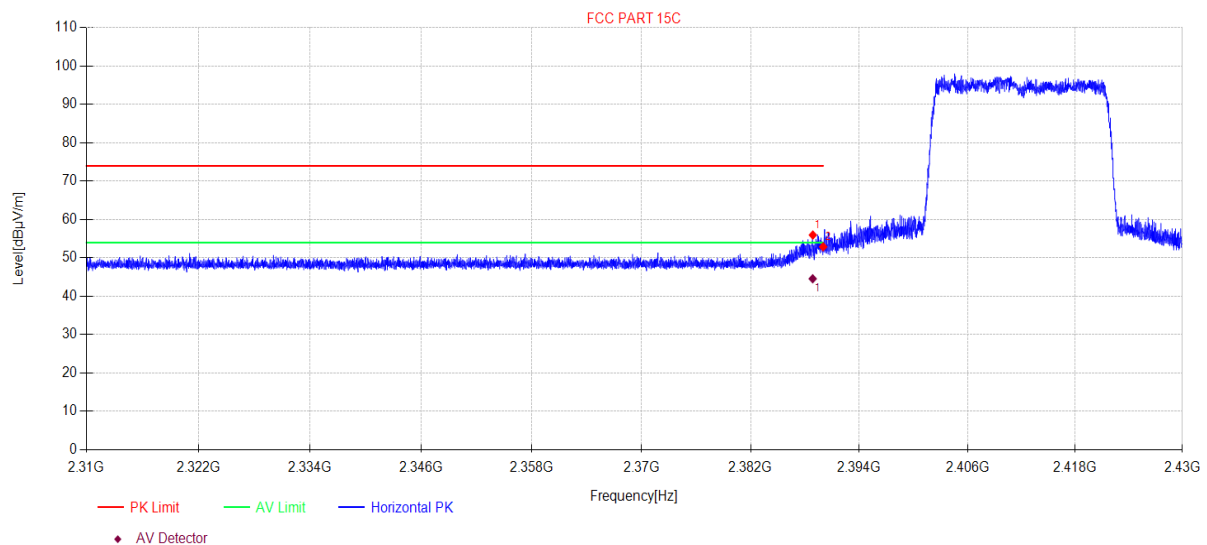
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
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 Date: 2023-05-19 **Tested By:** Bairong
EUT: Wireless Access Point **Model Number:** RG-RAP73HD
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23032214 RG-RAP73HD\FCC ABOVE 1G 2.4G\83
Memo: 11AX20MIMO 2412

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2388.86	54.84	3.78	27.48	-30.13	55.97	74.00	18.03	PK	Horizontal
2	2390.00	51.77	3.78	27.48	-30.13	52.90	74.00	21.10	PK	Horizontal

Final Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2388.85	43.44	3.78	27.48	-30.13	44.57	54.00	9.43	AV	Horizontal

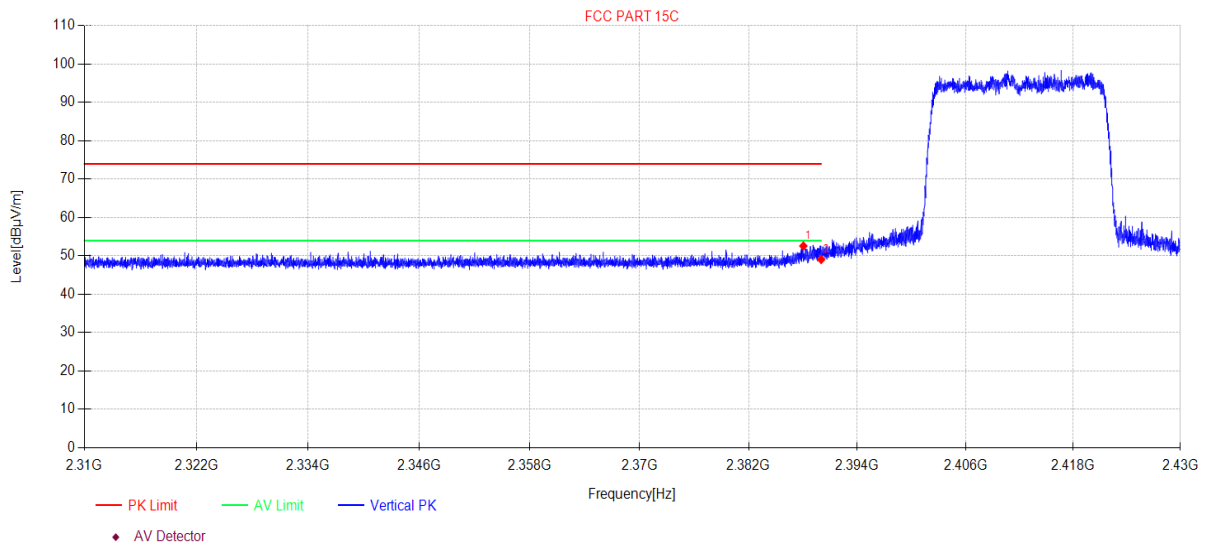
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-05-19 **Tested By:** Bairong
EUT: Wireless Access Point **Model Number:** RG-RAP73HD
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23032214 RG-RAP73HD\FCC ABOVE 1G 2.4G\84
Memo: 11AX20MIMO 2412

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2388.04	51.46	3.78	27.48	-30.13	52.59	74.00	21.41	PK	Vertical
2	2390.00	47.94	3.78	27.48	-30.13	49.07	74.00	24.93	PK	Vertical

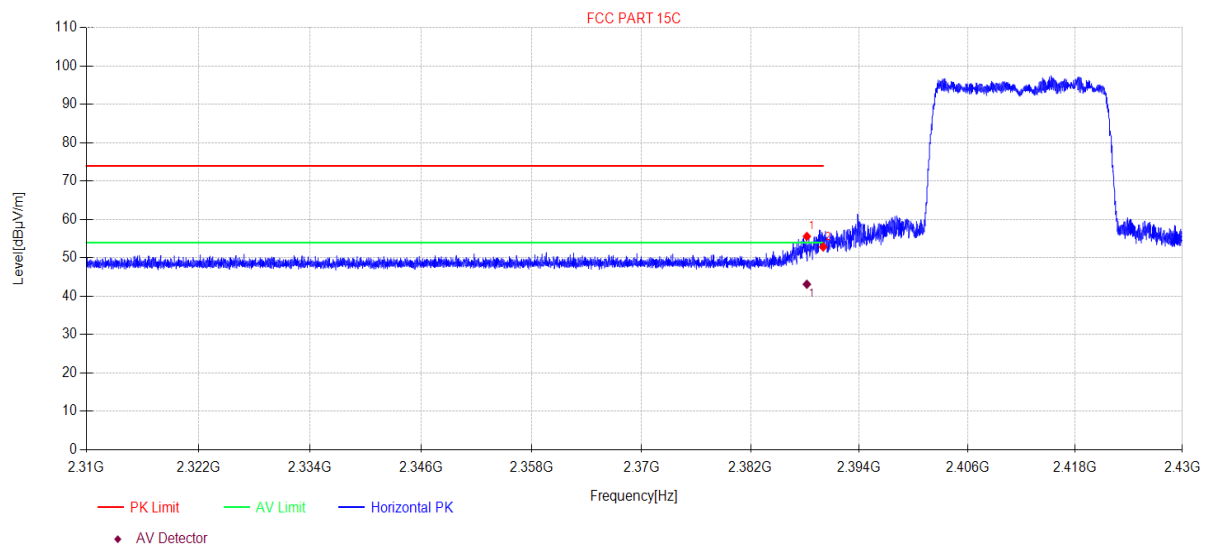
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
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 Date: 2023-05-19 **Tested By:** Bairong
EUT: Wireless Access Point **Model Number:** RG-RAP73HD
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23032214 RG-RAP73HD\FCC ABOVE 1G 2.4G\85
Memo: 11BE20MIMO 2412

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2388.20	54.48	3.78	27.48	-30.13	55.61	74.00	18.39	PK	Horizontal
2	2390.00	51.73	3.78	27.48	-30.13	52.86	74.00	21.14	PK	Horizontal

Final Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2388.20	42.01	3.78	27.48	-30.13	43.14	54.00	10.86	AV	Horizontal

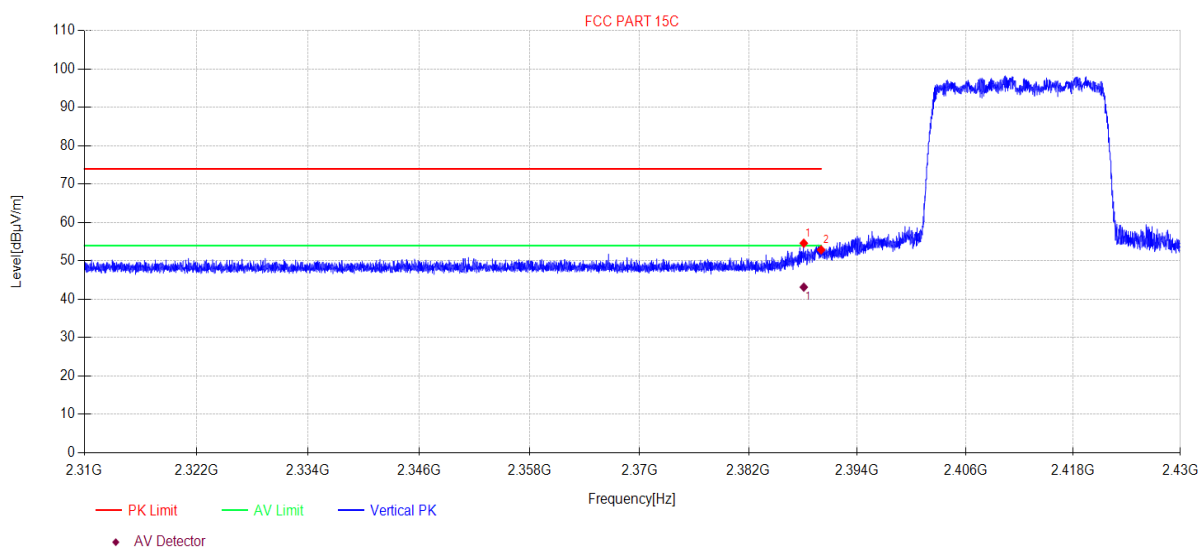
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-05-19 **Tested By:** Bairong
EUT: Wireless Access Point **Model Number:** RG-RAP73HD
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23032214 RG-RAP73HD\FCC ABOVE 1G 2.4G\86
Memo: 11BE20MIMO 2412

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2388.08	53.48	3.78	27.48	-30.13	54.61	74.00	19.39	PK	Vertical
2	2390.00	51.76	3.78	27.48	-30.13	52.89	74.00	21.11	PK	Vertical

Final Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2388.08	42.03	3.78	27.48	-30.13	43.16	54.00	10.84	AV	Vertical

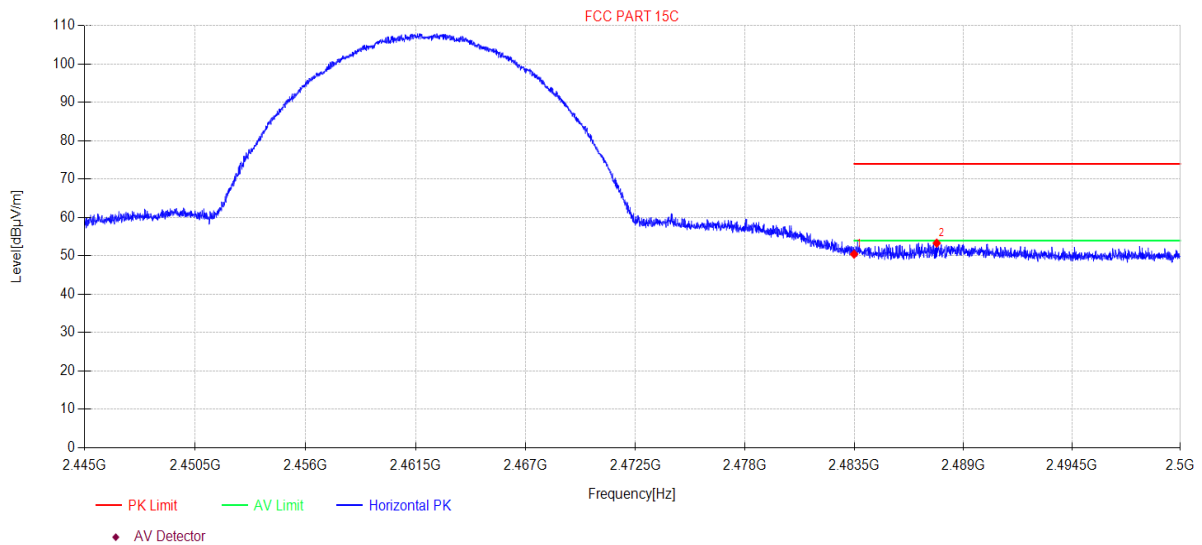
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-05-19 **Tested By:** Bairong
EUT: Wireless Access Point **Model Number:** RG-RAP73HD
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23032214 RG-RAP73HD\FCC ABOVE 1G 2.4G\69
Memo: 11B 2462

Test Graph



Suspected Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.50	49.08	3.88	27.73	-30.23	50.46	74.00	23.54	PK	Horizontal
2	2487.67	51.94	3.88	27.75	-30.24	53.33	74.00	20.67	PK	Horizontal

Note:

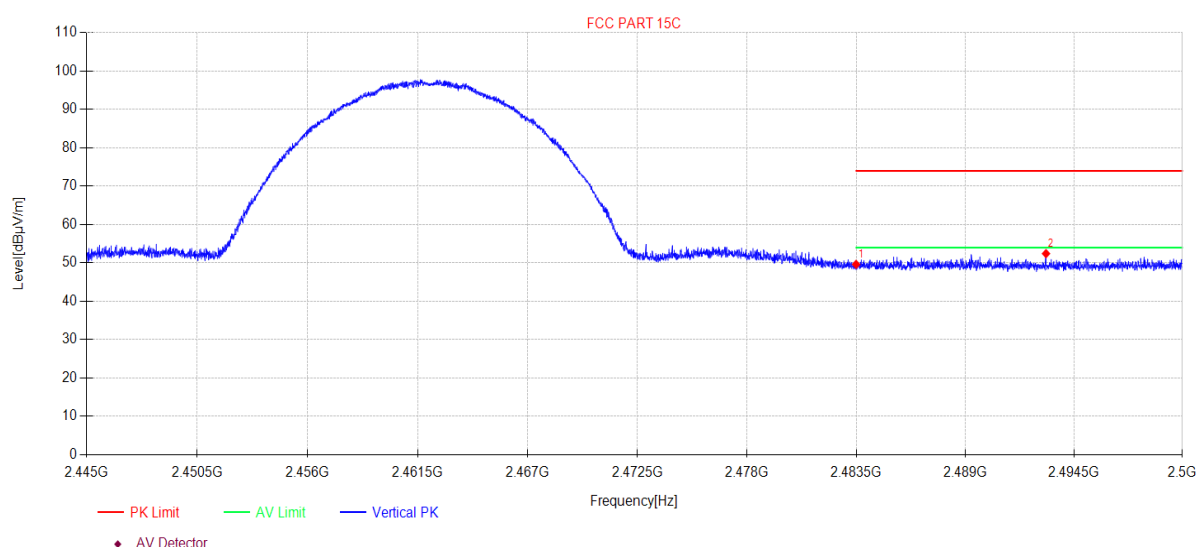
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-05-19
EUT: Wireless Access Point
Test Mode: TX Mode
Condition: Temp:22.2°C;Humi:56.7%
File Path: d:\ts\2023 report data\Q23032214 RG-RAP73HD\FCC ABOVE 1G 2.4G\70
Memo: 11B 2462

Tested By: Bairong
Model Number: RG-RAP73HD
Power Supply: AC 120V/60Hz
Test Site: DDT 3# Chamber

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.50	48.24	3.88	27.73	-30.23	49.62	74.00	24.38	PK	Vertical
2	2493.09	51.01	3.89	27.77	-30.24	52.43	74.00	21.57	PK	Vertical

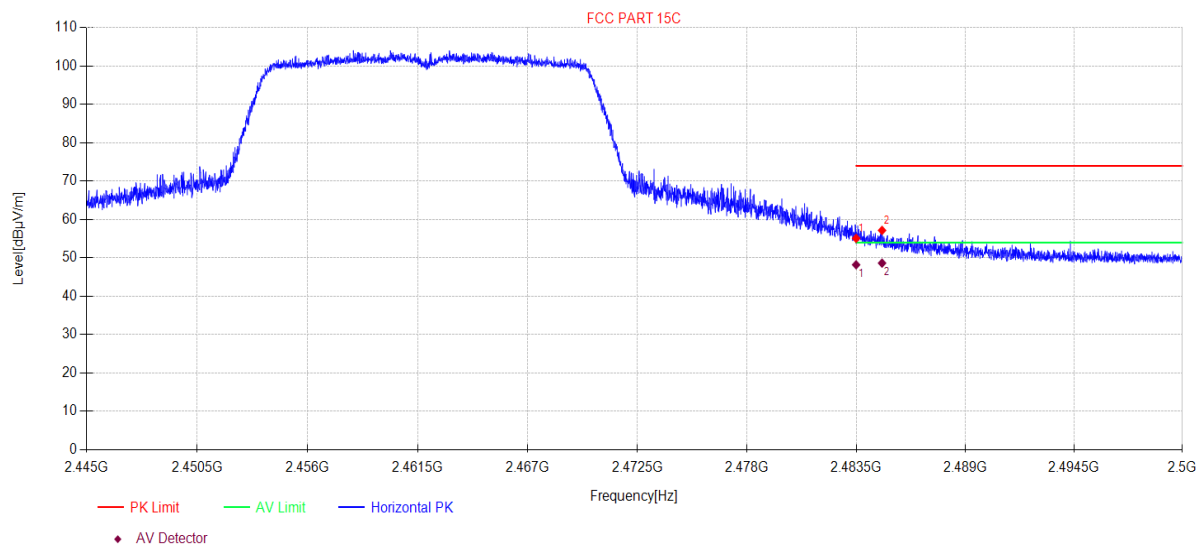
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
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 Date: 2023-05-19 **Tested By:** Bairong
EUT: Wireless Access Point **Model Number:** RG-RAP73HD
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23032214 RG-RAP73HD\FCC ABOVE 1G 2.4G\87
Memo: 11G 2462

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.50	53.72	3.88	27.73	-30.23	55.10	74.00	18.90	PK	Horizontal
2	2484.81	55.78	3.88	27.74	-30.23	57.17	74.00	16.83	PK	Horizontal

Final Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.50	46.83	3.88	27.73	-30.23	48.21	54.00	5.79	AV	Horizontal
2	2484.81	47.26	3.88	27.74	-30.23	48.65	54.00	5.35	AV	Horizontal

Note:

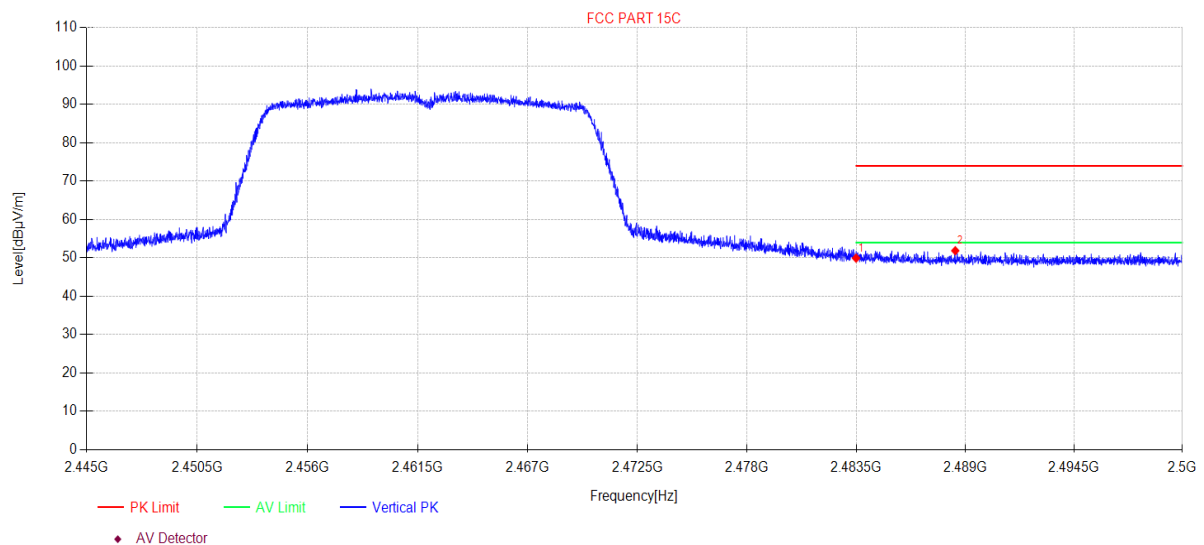
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-05-19
EUT: Wireless Access Point
Test Mode: TX Mode
Condition: Temp:22.2°C;Humi:56.7%
File Path: d:\ts\2023 report data\Q23032214 RG-RAP73HD\FCC ABOVE 1G 2.4G\88
Memo: 11G 2462

Tested By: Bairong
Model Number: RG-RAP73HD
Power Supply: AC 120V/60Hz
Test Site: DDT 3# Chamber

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.50	48.56	3.88	27.73	-30.23	49.94	74.00	24.06	PK	Vertical
2	2488.51	50.49	3.88	27.75	-30.24	51.88	74.00	22.12	PK	Vertical

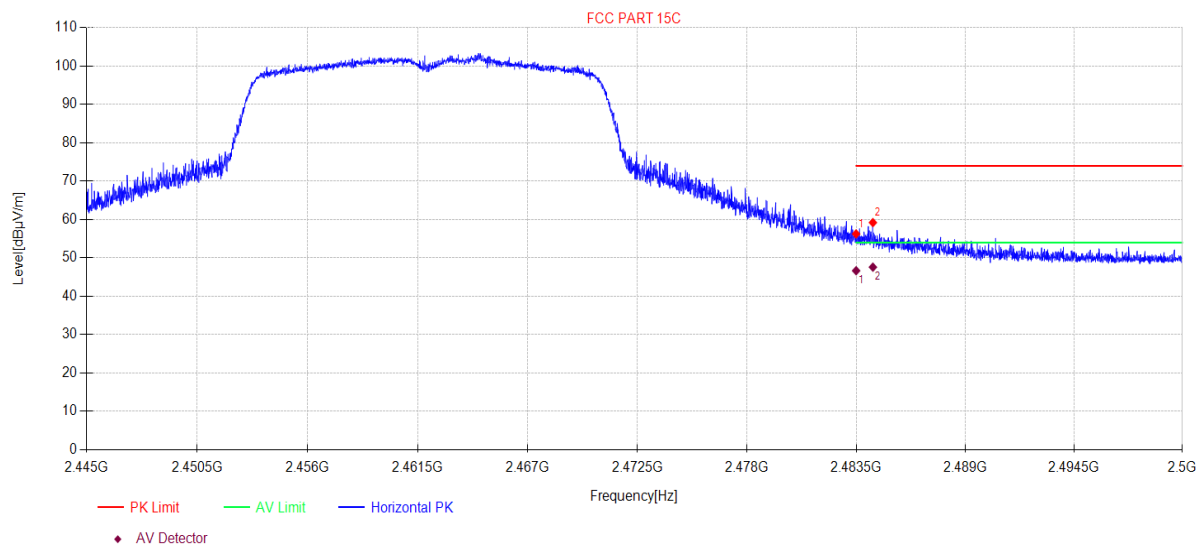
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
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 Date: 2023-05-19 **Tested By:** Bairong
EUT: Wireless Access Point **Model Number:** RG-RAP73HD
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23032214 RG-RAP73HD\FCC ABOVE 1G 2.4G\89
Memo: 11N20MIMO 2462

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.50	54.88	3.88	27.73	-30.23	56.26	74.00	17.74	PK	Horizontal
2	2484.35	57.82	3.88	27.74	-30.23	59.21	74.00	14.79	PK	Horizontal

Final Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.50	45.28	3.88	27.73	-30.23	46.66	54.00	7.34	AV	Horizontal
2	2484.35	46.20	3.88	27.74	-30.23	47.59	54.00	6.41	AV	Horizontal

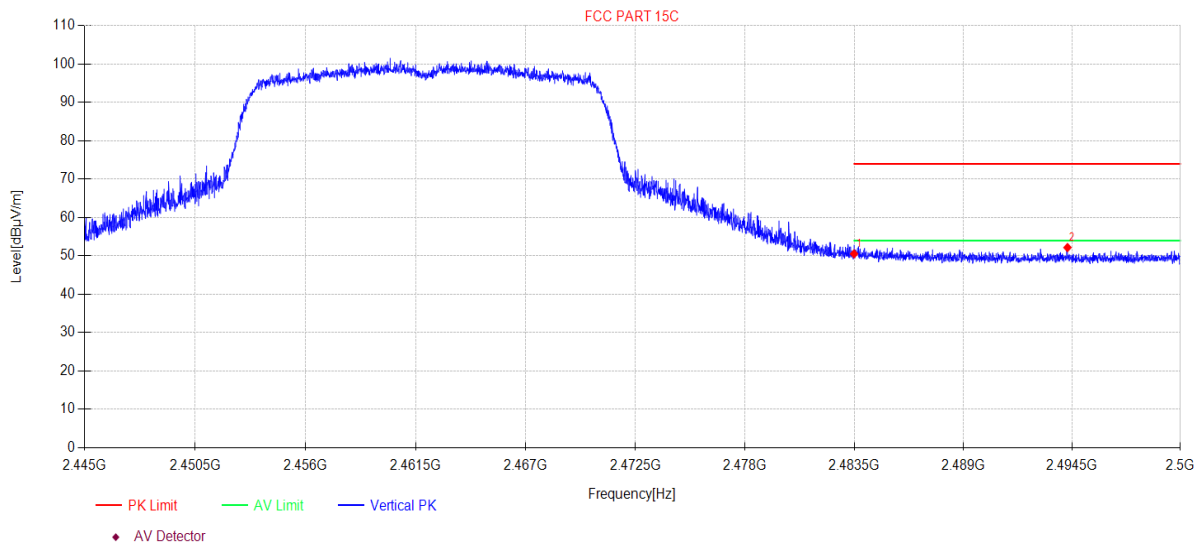
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
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 Date: 2023-05-19 **Tested By:** Bairong
EUT: Wireless Access Point **Model Number:** RG-RAP73HD
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23032214 RG-RAP73HD\FCC ABOVE 1G 2.4G\90
Memo: 11N20MIMO 2462

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.50	49.17	3.88	27.73	-30.23	50.55	74.00	23.45	PK	Vertical
2	2494.28	50.75	3.89	27.78	-30.24	52.18	74.00	21.82	PK	Vertical

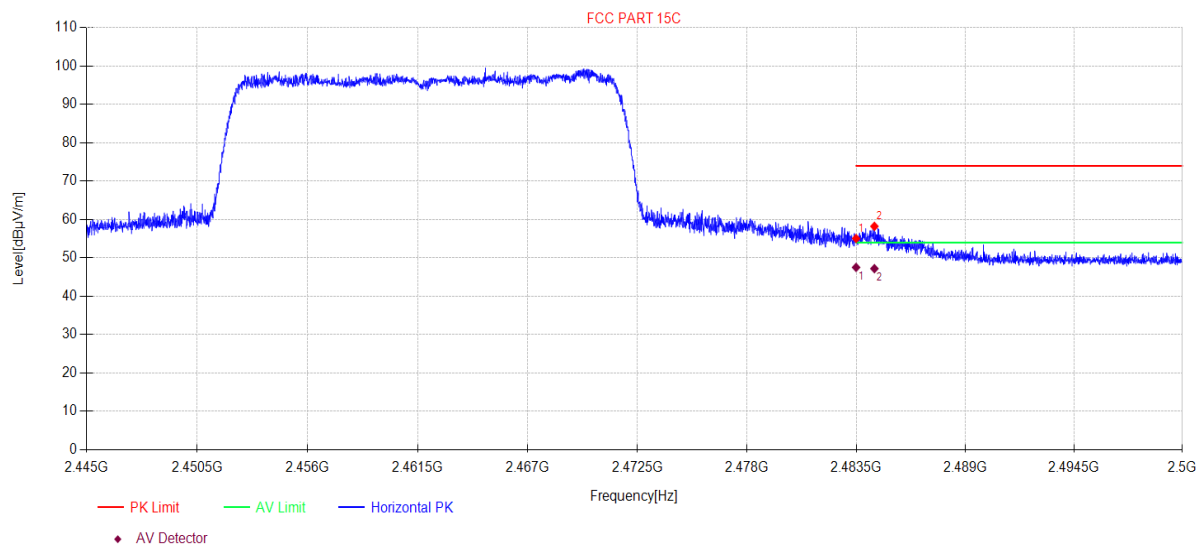
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
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 Date: 2023-05-19 **Tested By:** Bairong
EUT: Wireless Access Point **Model Number:** RG-RAP73HD
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23032214 RG-RAP73HD\FCC ABOVE 1G 2.4G\91
Memo: 11AX20MIMO 2462

Test Graph



Suspected Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.50	53.68	3.88	27.73	-30.23	55.06	74.00	18.94	PK	Horizontal
2	2484.42	56.84	3.88	27.74	-30.23	58.23	74.00	15.77	PK	Horizontal

Final Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.50	46.15	3.88	27.73	-30.23	47.53	54.00	6.47	AV	Horizontal
2	2484.42	45.82	3.88	27.74	-30.23	47.21	54.00	6.79	AV	Horizontal

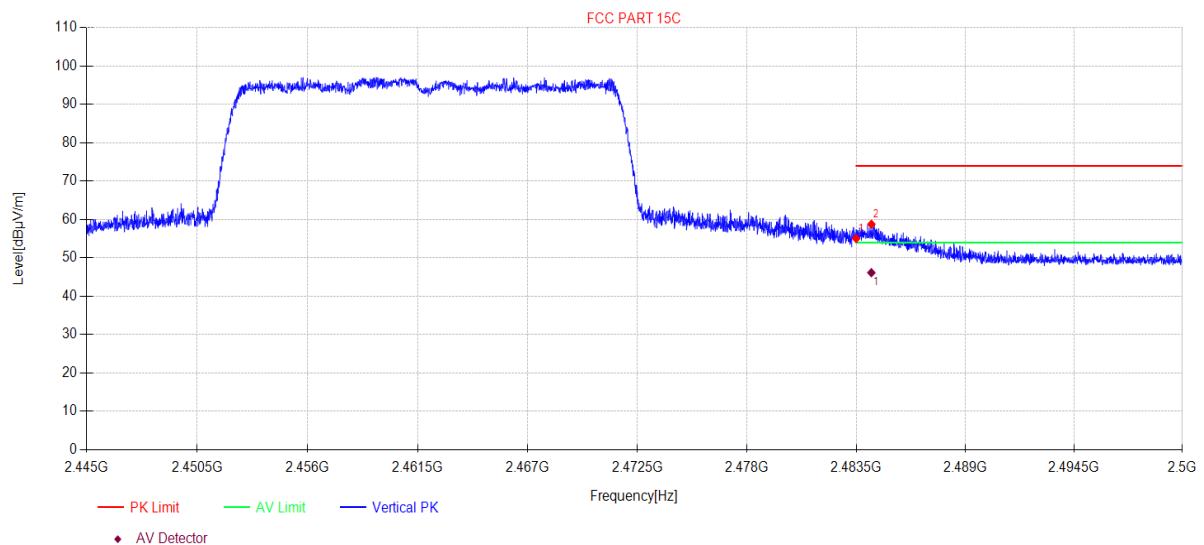
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
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 Date: 2023-05-19 **Tested By:** Bairong
EUT: Wireless Access Point **Model Number:** RG-RAP73HD
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23032214 RG-RAP73HD\FCC ABOVE 1G 2.4G\92
Memo: 11AX20MIMO 2462

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.50	53.66	3.88	27.73	-30.23	55.04	74.00	18.96	PK	Vertical
2	2484.27	57.39	3.88	27.74	-30.23	58.78	74.00	15.22	PK	Vertical

Final Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2484.27	44.76	3.88	27.74	-30.23	46.15	54.00	7.85	AV	Vertical

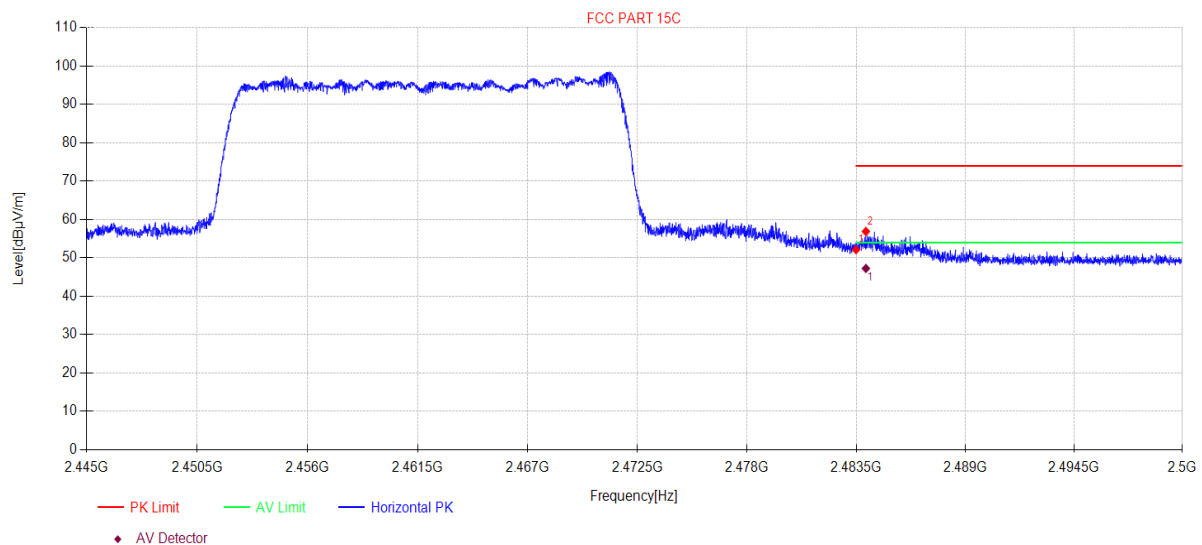
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
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 Date: 2023-05-19 **Tested By:** Bairong
EUT: Wireless Access Point **Model Number:** RG-RAP73HD
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23032214 RG-RAP73HD\FCC ABOVE 1G 2.4G\93
Memo: 11BE20MIMO 2462

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.50	50.76	3.88	27.73	-30.23	52.14	74.00	21.86	PK	Horizontal
2	2484.00	55.50	3.88	27.74	-30.23	56.89	74.00	17.11	PK	Horizontal

Final Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2484.00	45.87	3.88	27.74	-30.23	47.26	54.00	6.74	AV	Horizontal

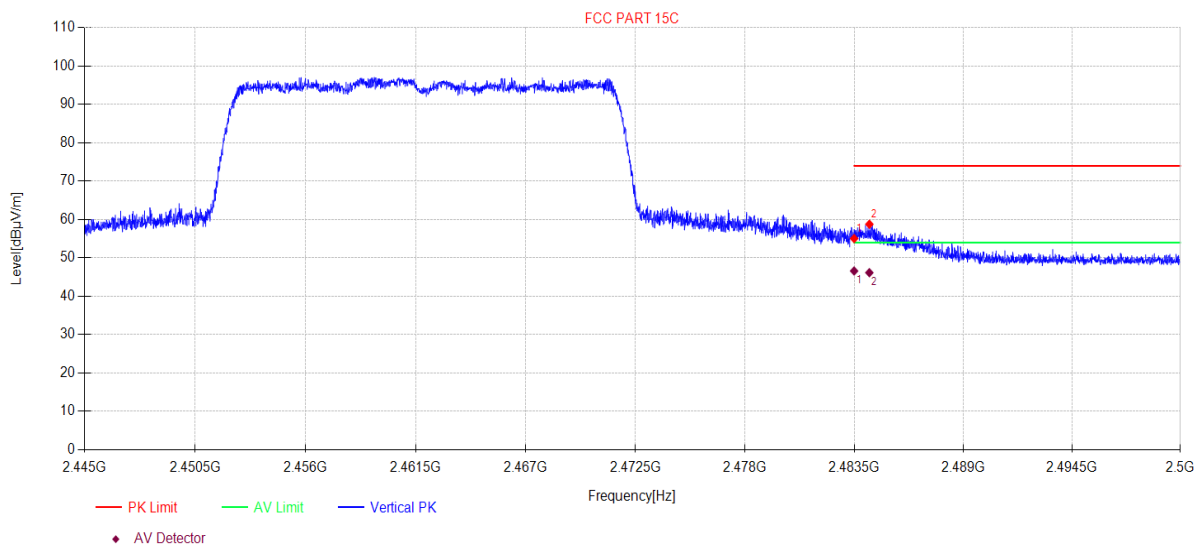
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
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 Date: 2023-05-19 **Tested By:** Bairong
EUT: Wireless Access Point **Model Number:** RG-RAP73HD
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23032214 RG-RAP73HD\FCC ABOVE 1G 2.4G\92
Memo: 11AX20MIMO 2462

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.50	53.66	3.88	27.73	-30.23	55.04	74.00	18.96	PK	Vertical
2	2484.27	57.39	3.88	27.74	-30.23	58.78	74.00	15.22	PK	Vertical

Final Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.50	45.22	3.88	27.73	-30.23	46.60	54.00	7.40	AV	Vertical
2	2484.27	44.76	3.88	27.74	-30.23	46.15	54.00	7.85	AV	Vertical

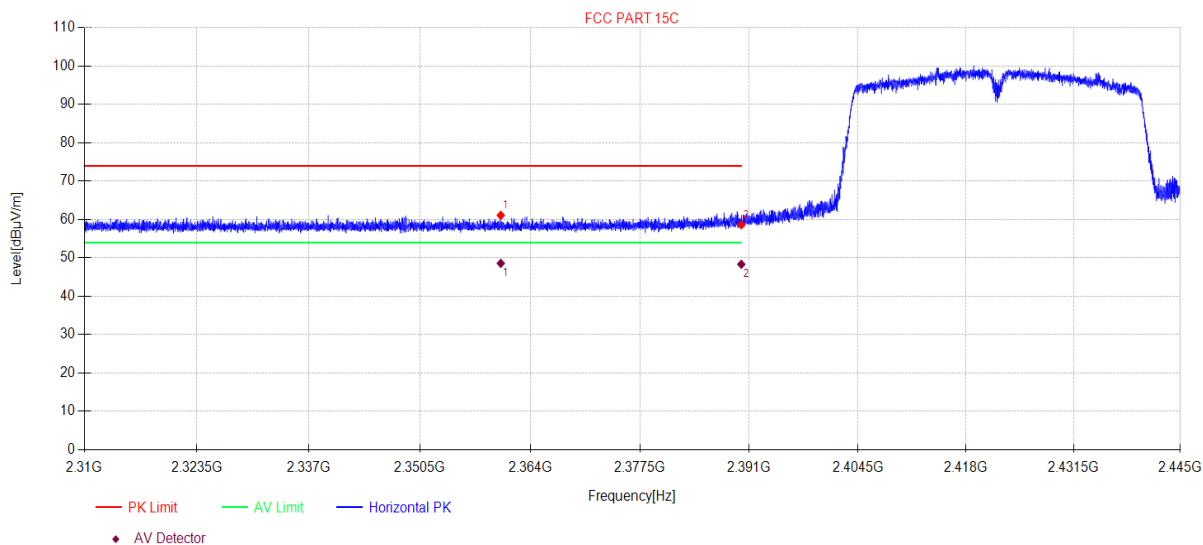
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
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 Date: 2023-05-19 **Tested By:** Bairong
EUT: Wireless Access Point **Model Number:** RG-RAP73HD
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23032214 RG-RAP73HD\FCC ABOVE 1G 2.4G\95
Memo: 11N40MIMO 2422

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2360.40	50.02	3.75	27.42	-20.10	61.09	74.00	12.91	PK	Horizontal
2	2390.00	47.51	3.78	27.48	-20.13	58.64	74.00	15.36	PK	Horizontal

Final Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2360.40	37.51	3.75	27.42	-20.10	48.58	54.00	5.42	AV	Horizontal
2	2390.00	37.21	3.78	27.48	-20.13	48.34	54.00	5.66	AV	Horizontal

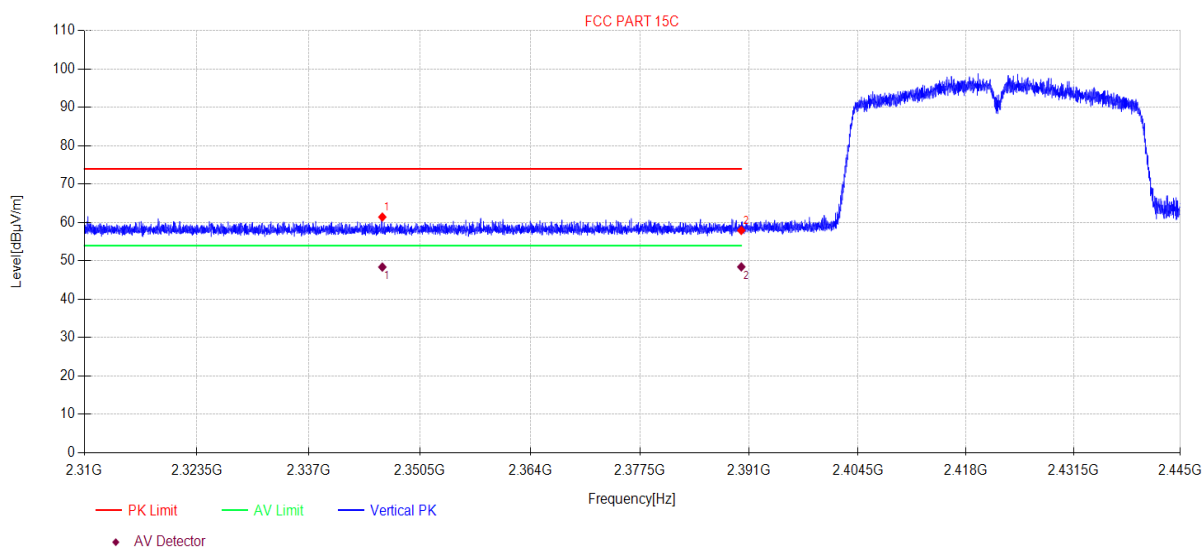
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
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 Date: 2023-05-19 **Tested By:** Bairong
EUT: Wireless Access Point **Model Number:** RG-RAP73HD
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23032214 RG-RAP73HD\FCC ABOVE 1G 2.4G\96
Memo: 11N40MIMO 2422

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2345.95	50.39	3.74	27.39	-20.08	61.44	74.00	12.56	PK	Vertical
2	2390.00	46.81	3.78	27.48	-20.13	57.94	74.00	16.06	PK	Vertical

Final Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2345.95	37.34	3.74	27.39	-20.08	48.39	54.00	5.61	AV	Vertical
2	2390.00	37.32	3.78	27.48	-20.13	48.45	54.00	5.55	AV	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
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.