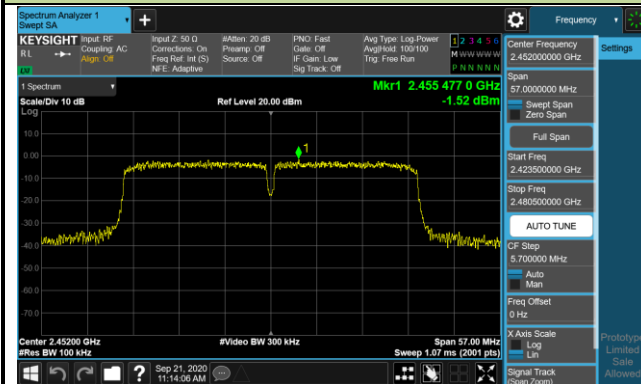


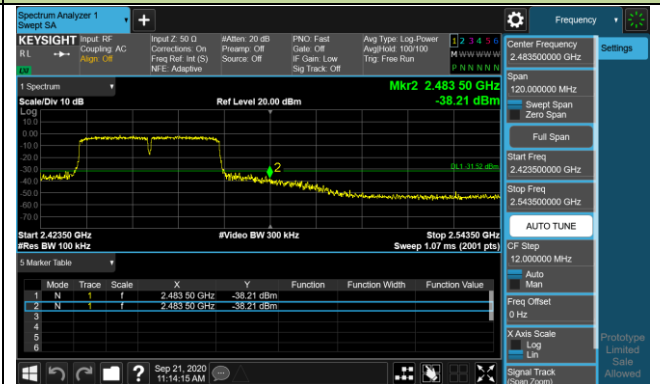
802.11n-HT40 Out-of-Band Emissions - Ant 0 / Ant 0 + 1

Channel 09 (2452MHz)

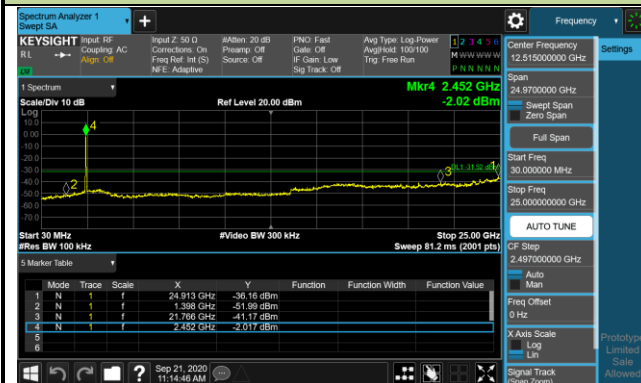
100kHz PSD Reference Level



High Band Edge



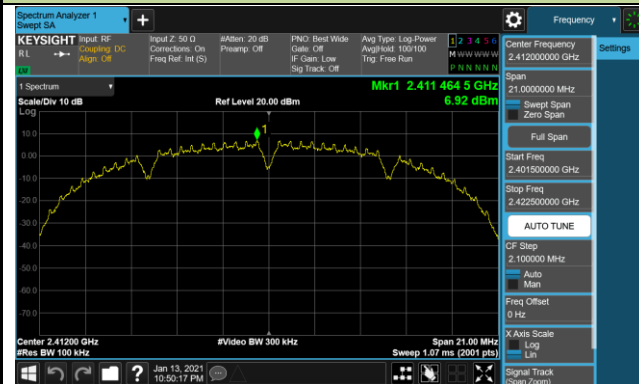
Spurious Emission



802.11b Out-of-Band Emissions - Ant 1 / Ant 0 + 1

Channel 01 (2412MHz)

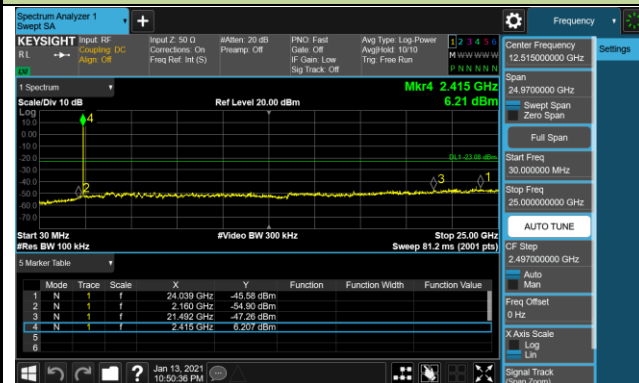
100kHz PSD Reference Level



Low Band Edge



Spurious Emission

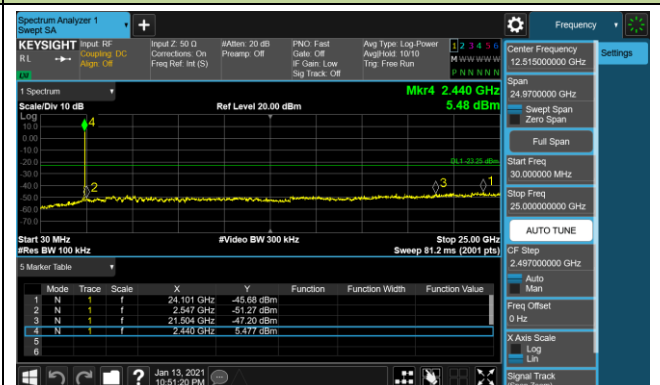


Channel 06 (2437MHz)

100kHz PSD Reference Level



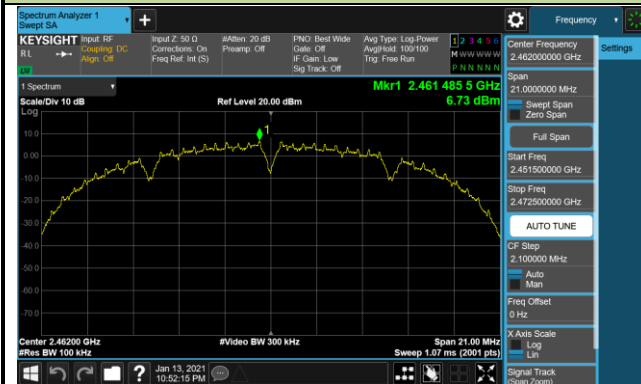
Spurious Emission



802.11b Out-of-Band Emissions - Ant 1 / Ant 0 + 1

Channel 11 (2462MHz)

100kHz PSD Reference Level



High Band Edge



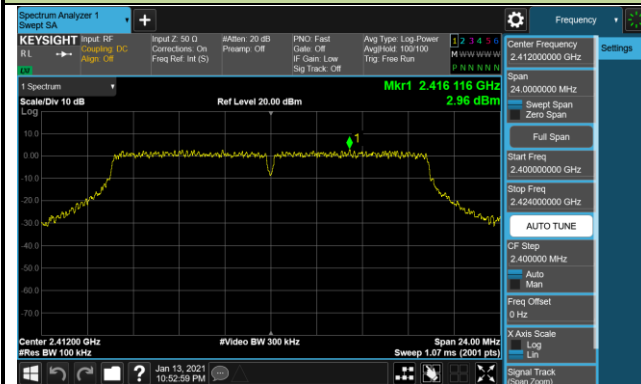
Spurious Emission



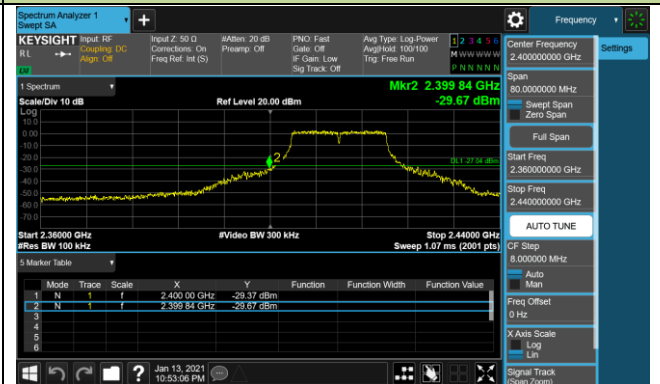
802.11g Out-of-Band Emissions - Ant 1 / Ant 0 + 1

Channel 01 (2412MHz)

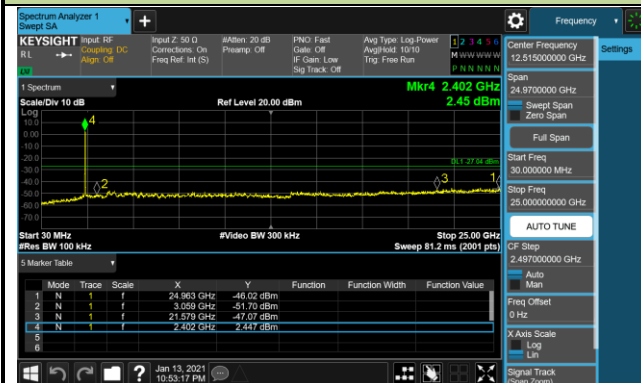
100kHz PSD Reference Level



Low Band Edge



Spurious Emission

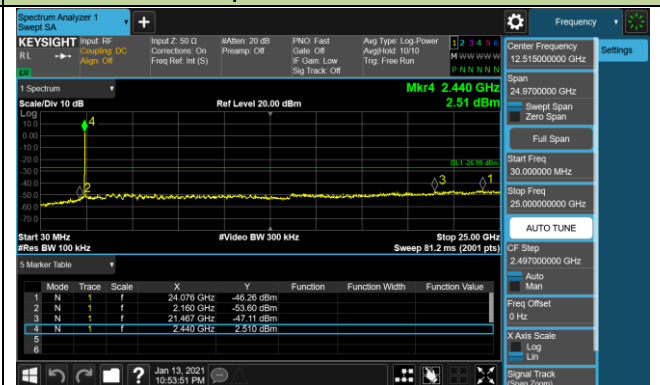


Channel 06 (2437MHz)

100kHz PSD Reference Level



Spurious Emission



802.11g Out-of-Band Emissions - Ant 1 / Ant 0 + 1

Channel 11 (2462MHz)

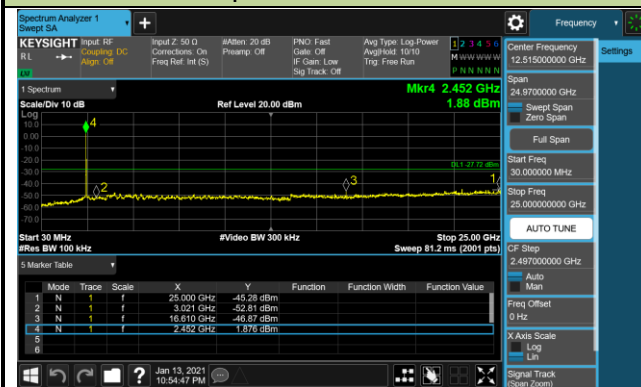
100kHz PSD Reference Level



High Band Edge



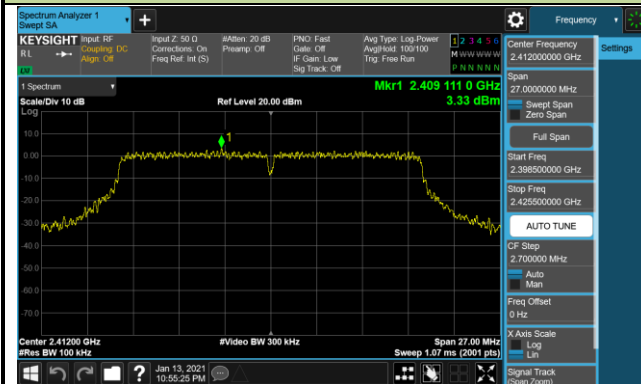
Spurious Emission



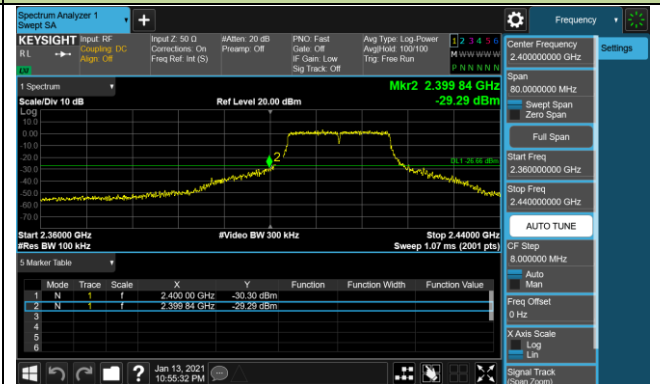
802.11n-HT20 Out-of-Band Emissions - Ant 1 / Ant 0 + 1

Channel 01 (2412MHz)

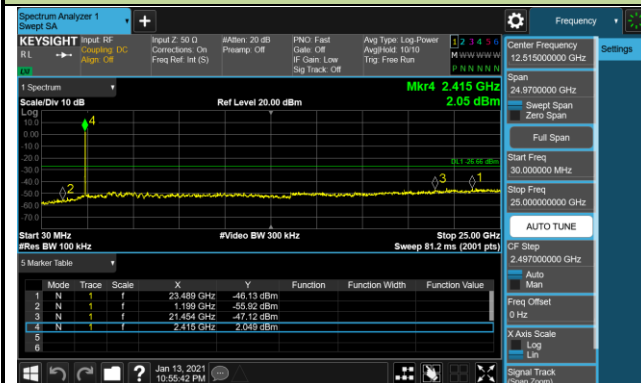
100kHz PSD Reference Level



Low Band Edge



Spurious Emission

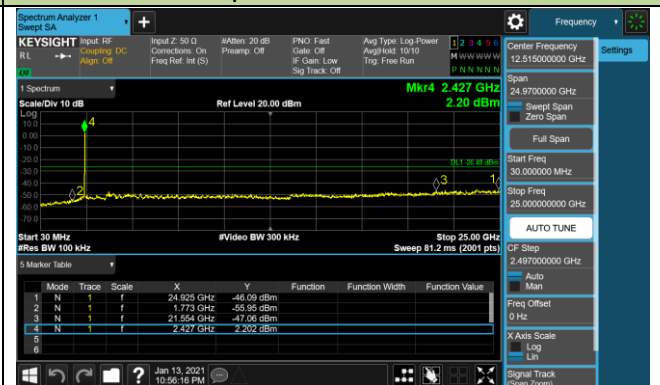


Channel 06 (2437MHz)

100kHz PSD Reference Level



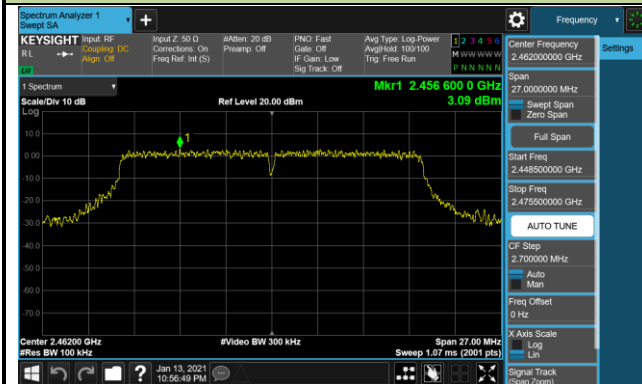
Spurious Emission



802.11n-HT20 Out-of-Band Emissions - Ant 1 / Ant 0 + 1

Channel 11 (2462MHz)

100kHz PSD Reference Level



High Band Edge



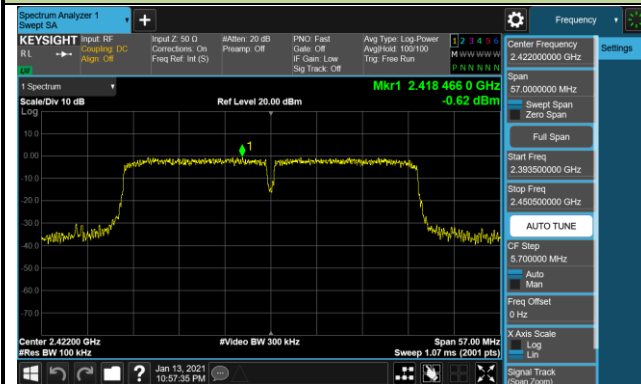
Spurious Emission



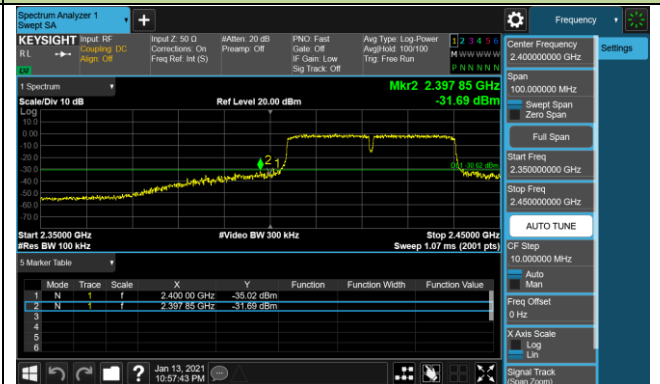
802.11n-HT40 Out-of-Band Emissions - Ant 1 / Ant 0 + 1

Channel 03 (2422MHz)

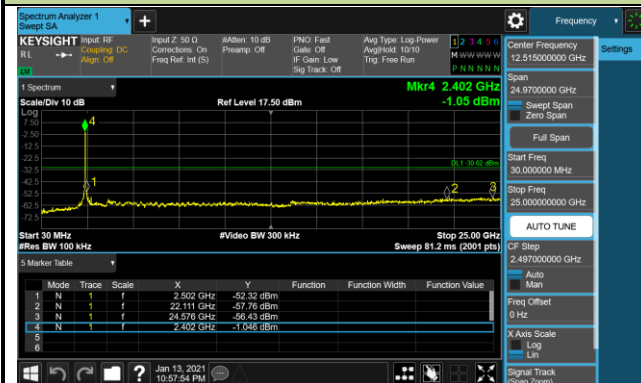
100kHz PSD Reference Level



Low Band Edge

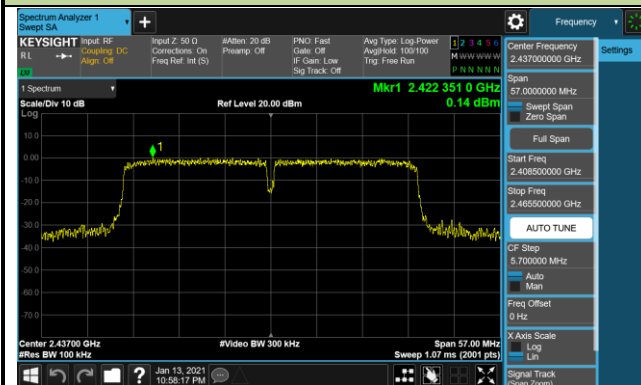


Spurious Emission

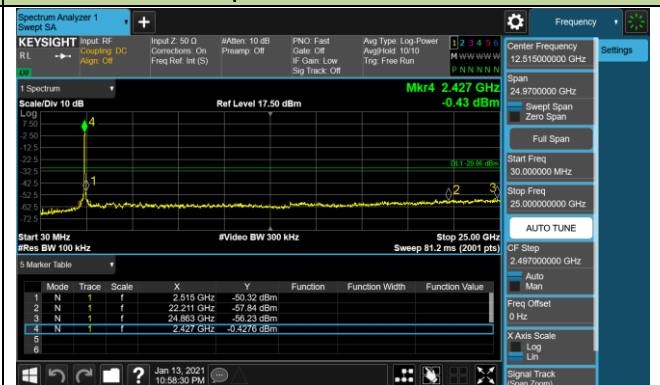


Channel 06 (2437MHz)

100kHz PSD Reference Level



Spurious Emission



802.11n-HT40 Out-of-Band Emissions - Ant 1 / Ant 0 + 1

Channel 09 (2452MHz)

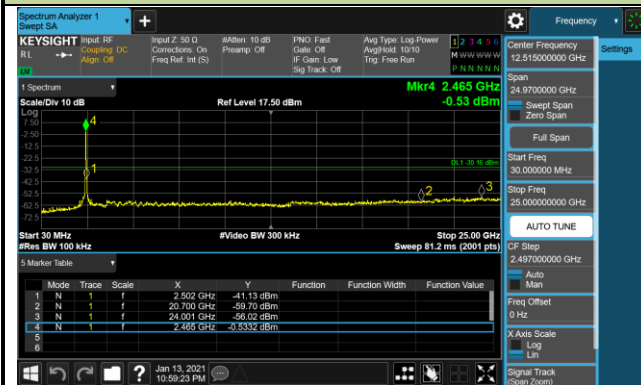
100kHz PSD Reference Level



High Band Edge



Spurious Emission



6.6. Radiated Spurious Emission Measurement

6.6.1. Test Limit

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

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

6.6.2. Test Procedure Used

ANSI C63.10-2013 - Section 6.3

ANSI C63.10-2013 - Section 6.4

ANSI C63.10-2013 - Section 6.5

ANSI C63.10-2013 - Section 6.6

ANSI C63.10-2013 - Section 11.11

ANSI C63.10-2013 - Section 11.12

6.6.3. Test Setting

Table 1 - RBW as a function of frequency

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

Quasi-Peak Measurements below 1GHz

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

Peak Measurements above 1GHz

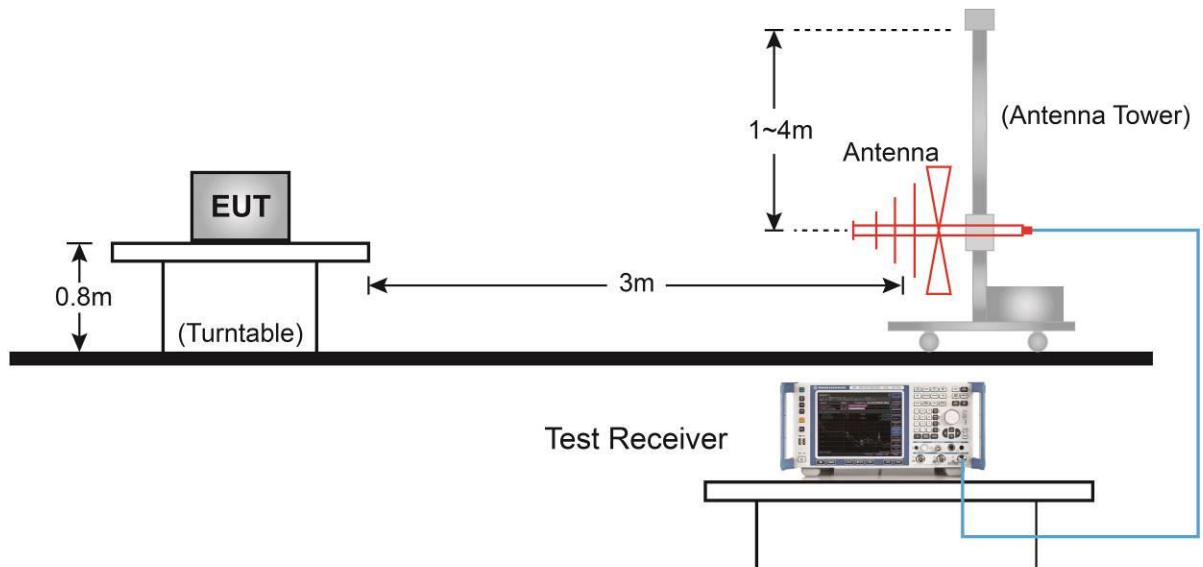
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

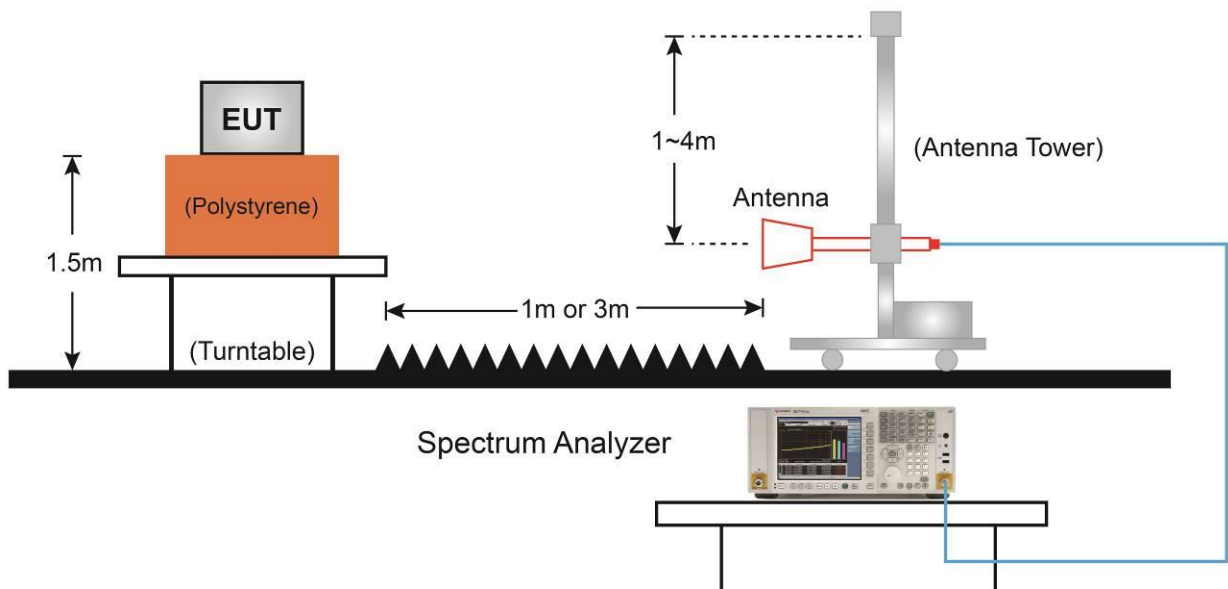
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10 Hz.
If the EUT duty cycle is $< 98\%$, set VBW $\geq 1/T$. T is the minimum transmission duration.
4.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

6.6.4.Test Setup

Below 1GHz Test Setup:



Above 1GHz Test Setup:



6.6.5. Test Result

Test Site	WZ-AC1	Test Engineer	Antony Yang
Test Date	2020/09/10	Test Channel:	01
Test Mode:	802.11b		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4824.0	47.5	5.7	53.2	54.0	-0.8	Average	Horizontal
	4824.0	48.4	5.8	54.2	74.0	-19.8	Peak	Horizontal
*	6907.5	44.5	9.1	53.6	74.0	-20.4	Peak	Horizontal
*	7239.0	41.1	10.5	51.6	74.0	-22.4	Peak	Horizontal
	8276.0	36.1	11.2	47.3	74.0	-26.7	Peak	Horizontal
	4825.0	48.9	5.8	54.7	74.0	-19.3	Peak	Vertical
*	6907.5	37.9	9.1	47.0	74.0	-27.0	Peak	Vertical
*	9644.5	41.2	14.4	55.6	74.0	-18.4	Peak	Vertical
	11701.5	34.9	15.3	50.2	74.0	-23.8	Peak	Vertical

Note 1: "*" means test frequency didn't fall into restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	WZ-AC1	Test Engineer	Antony Yang
Test Date	2020/09/10	Test Channel:	06
Test Mode:	802.11b		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4876.0	47.3	5.5	52.8	74.0	-21.2	Peak	Horizontal
*	5241.5	35.6	6.1	41.7	74.0	-32.3	Peak	Horizontal
*	6907.5	44.4	9.1	53.5	74.0	-20.5	Peak	Horizontal
	7315.5	39.7	10.6	50.3	74.0	-23.7	Peak	Horizontal
	4874.0	47.1	5.5	52.6	54.0	-1.4	Average	Vertical
	4874.0	48.9	5.5	54.4	74.0	-19.6	Peak	Vertical
*	6712.0	37.2	8.9	46.1	74.0	-27.9	Peak	Vertical
*	9746.5	40.6	15.3	55.9	74.0	-18.1	Peak	Vertical
	11574.0	36.4	15.6	52.0	74.0	-22.0	Peak	Vertical

Note 1: "*" means test frequency didn't fall into restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	WZ-AC1	Test Engineer	Antony Yang
Test Date	2020/09/10	Test Channel:	11
Test Mode:	802.11b		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4924.0	45.9	6.1	52.0	54.0	-2.0	Average	Horizontal
	4927.0	47.2	6.2	53.4	74.0	-20.6	Peak	Horizontal
*	6907.5	44.3	9.1	53.4	74.0	-20.6	Peak	Horizontal
*	9848.5	38.3	15.4	53.7	74.0	-20.3	Peak	Horizontal
	11710.0	35.9	15.2	51.1	74.0	-22.9	Peak	Horizontal
	4924.0	46.6	6.1	52.7	54.0	-1.3	Average	Vertical
	4924.0	47.7	6.2	53.9	74.0	-20.1	Peak	Vertical
*	6916.0	36.4	9.2	45.6	74.0	-28.4	Peak	Vertical
*	9848.5	39.4	15.4	54.8	74.0	-19.2	Peak	Vertical
	11344.5	36.1	16.0	52.1	74.0	-21.9	Peak	Vertical

Note 1: "*" means test frequency didn't fall into restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	WZ-AC1	Test Engineer	Antony Yang
Test Date	2020/09/10	Test Channel:	01
Test Mode:	802.11b		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4830.1	47.2	5.8	53.0	74.0	-21.0	Peak	Horizontal
	4830.1	35.1	5.8	40.9	54.0	-13.1	Average	Horizontal
*	7239.0	45.0	10.5	55.5	74.0	-18.5	Peak	Horizontal
*	7842.5	35.8	11.0	46.8	74.0	-27.2	Peak	Horizontal
	8276.0	34.9	11.2	46.1	74.0	-27.9	Peak	Horizontal
	4816.5	46.6	5.8	52.4	74.0	-21.6	Peak	Vertical
*	7222.0	39.6	10.5	50.1	74.0	-23.9	Peak	Vertical
*	9644.5	40.9	14.4	55.3	74.0	-18.7	Peak	Vertical
	11276.5	35.3	15.8	51.1	74.0	-22.9	Peak	Vertical

Note 1: "*" means test frequency didn't fall into restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	WZ-AC1	Test Engineer	Antony Yang
Test Date	2020/09/10	Test Channel:	06
Test Mode:	802.11g		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4859.0	45.1	5.7	50.8	74.0	-23.2	Peak	Horizontal
	7306.4	31.4	10.6	42.0	54.0	-12.0	Average	Horizontal
	7306.4	45.4	10.6	56.0	74.0	-18.0	Peak	Horizontal
*	8718.0	35.5	12.8	48.3	74.0	-25.7	Peak	Horizontal
*	9746.5	36.8	15.3	52.1	74.0	-21.9	Peak	Horizontal
	4867.5	44.5	5.6	50.1	74.0	-23.9	Peak	Vertical
	7307.0	40.8	10.6	51.4	74.0	-22.6	Peak	Vertical
*	8828.5	35.7	12.9	48.6	74.0	-25.4	Peak	Vertical
*	9746.5	40.7	15.3	56.0	74.0	-18.0	Peak	Vertical

Note 1: "*" means test frequency didn't fall into restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	WZ-AC1	Test Engineer	Antony Yang
Test Date	2020/09/10	Test Channel:	11
Test Mode:	802.11g		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4918.5	43.6	5.9	49.5	74.0	-24.5	Peak	Horizontal
*	6907.5	43.9	9.1	53.0	74.0	-21.0	Peak	Horizontal
	7393.8	42.8	10.8	53.6	74.0	-20.4	Peak	Horizontal
	7393.8	29.6	10.7	40.3	54.0	-13.7	Average	Horizontal
*	9848.5	38.2	15.4	53.6	74.0	-20.4	Peak	Horizontal
	4927.0	43.7	6.2	49.9	74.0	-24.1	Peak	Vertical
*	6584.5	35.8	8.7	44.5	74.0	-29.5	Peak	Vertical
	7392.0	39.9	10.7	50.6	74.0	-23.4	Peak	Vertical
*	9848.5	39.4	15.4	54.8	74.0	-19.2	Peak	Vertical

Note 1: "*" means test frequency didn't fall into restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	WZ-AC1	Test Engineer	Antony Yang
Test Date	2020/09/10	Test Channel:	01
Test Mode:	802.11n-HT20		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4816.5	45.7	5.8	51.5	74.0	-22.5	Peak	Horizontal
	5403.0	34.5	6.5	41.0	74.0	-33.0	Peak	Horizontal
*	6907.5	43.7	9.1	52.8	74.0	-21.2	Peak	Horizontal
*	7239.0	45.5	10.5	56.0	74.0	-18.0	Peak	Horizontal
	4825.0	46.2	5.8	52.0	74.0	-22.0	Peak	Vertical
	5411.5	33.8	6.6	40.4	74.0	-33.6	Peak	Vertical
*	7222.0	41.8	10.5	52.3	74.0	-21.7	Peak	Vertical
*	9644.5	40.6	14.4	55.0	74.0	-19.0	Peak	Vertical

Note 1: "*" means test frequency didn't fall into restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	WZ-AC1	Test Engineer	Antony Yang
Test Date	2020/09/10	Test Channel:	06
Test Mode:	802.11n-HT20		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4867.5	44.3	5.6	49.9	74.0	-24.1	Peak	Horizontal
*	6907.5	43.7	9.1	52.8	74.0	-21.2	Peak	Horizontal
	7307.0	43.5	10.6	54.1	74.0	-19.9	Peak	Horizontal
	7307.0	29.8	10.6	40.4	54.0	-13.6	Average	Horizontal
*	9746.5	37.4	15.3	52.7	74.0	-21.3	Peak	Horizontal
	4876.0	46.4	5.5	51.9	74.0	-22.1	Peak	Vertical
*	6508.0	36.0	8.6	44.6	74.0	-29.4	Peak	Vertical
	7307.0	44.0	10.6	54.6	74.0	-19.4	Peak	Vertical
	7307.0	28.3	10.6	38.9	54.0	-15.1	Average	Vertical
*	9746.5	39.4	15.3	54.7	74.0	-19.3	Peak	Vertical

Note 1: "*" means test frequency didn't fall into restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	WZ-AC1	Test Engineer	Antony Yang
Test Date	2020/09/10	Test Channel:	11
Test Mode:	802.11n-HT20		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4927.0	43.2	6.2	49.4	74.0	-24.6	Peak	Horizontal
*	6907.5	43.8	9.1	52.9	74.0	-21.1	Peak	Horizontal
	7383.5	41.9	10.8	52.7	74.0	-21.3	Peak	Horizontal
*	8616.0	35.2	12.4	47.6	74.0	-26.4	Peak	Horizontal
	4927.0	44.8	6.2	51.0	74.0	-23.0	Peak	Vertical
*	6261.5	34.9	7.4	42.3	74.0	-31.7	Peak	Vertical
	7392.0	41.0	10.7	51.7	74.0	-22.3	Peak	Vertical
*	9848.5	38.4	15.4	53.8	74.0	-20.2	Peak	Vertical

Note 1: "*" means test frequency didn't fall into restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	WZ-AC1	Test Engineer	Antony Yang
Test Date	2020/09/10	Test Channel:	03
Test Mode:	802.11n-HT40		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4842.0	41.6	5.9	47.5	74.0	-26.5	Peak	Horizontal
*	6907.5	44.4	9.1	53.5	74.0	-20.5	Peak	Horizontal
	7264.5	40.0	10.7	50.7	74.0	-23.3	Peak	Horizontal
*	8658.5	35.2	12.8	48.0	74.0	-26.0	Peak	Horizontal
	4833.5	43.0	5.8	48.8	74.0	-25.2	Peak	Vertical
*	6134.0	35.8	7.1	42.9	74.0	-31.1	Peak	Vertical
	8318.5	35.6	11.1	46.7	74.0	-27.3	Peak	Vertical
*	9687.0	40.1	14.6	54.7	74.0	-19.3	Peak	Vertical

Note 1: "*" means test frequency didn't fall into restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	WZ-AC1	Test Engineer	Antony Yang
Test Date	2020/09/10	Test Channel:	06
Test Mode:	802.11n-HT40		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4978.0	40.6	6.2	46.8	74.0	-27.2	Peak	Horizontal
*	6907.5	43.9	9.1	53.0	74.0	-21.0	Peak	Horizontal
	7298.5	42.3	10.6	52.9	74.0	-21.1	Peak	Horizontal
*	9746.5	37.0	15.3	52.3	74.0	-21.7	Peak	Horizontal
	4876.0	42.3	5.5	47.8	74.0	-26.2	Peak	Vertical
*	6032.0	36.6	7.1	43.7	74.0	-30.3	Peak	Vertical
	7366.5	35.3	10.9	46.2	74.0	-27.8	Peak	Vertical
*	9746.5	39.2	15.3	54.5	74.0	-19.5	Peak	Vertical

Note 1: "*" means test frequency didn't fall into restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	WZ-AC1	Test Engineer	Antony Yang
Test Date	2020/09/10	Test Channel:	09
Test Mode:	802.11n-HT40		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4978.0	40.1	6.2	46.3	74.0	-27.7	Peak	Horizontal
*	6907.5	44.0	9.1	53.1	74.0	-20.9	Peak	Horizontal
	7647.0	35.1	10.4	45.5	74.0	-28.5	Peak	Horizontal
*	9806.0	37.1	15.2	52.3	74.0	-21.7	Peak	Horizontal
	5003.5	40.5	6.2	46.7	74.0	-27.3	Peak	Vertical
*	6236.0	36.7	7.3	44.0	74.0	-30.0	Peak	Vertical
	8488.5	37.7	11.6	49.3	74.0	-24.7	Peak	Vertical
*	9806.0	38.7	15.2	53.9	74.0	-20.1	Peak	Vertical

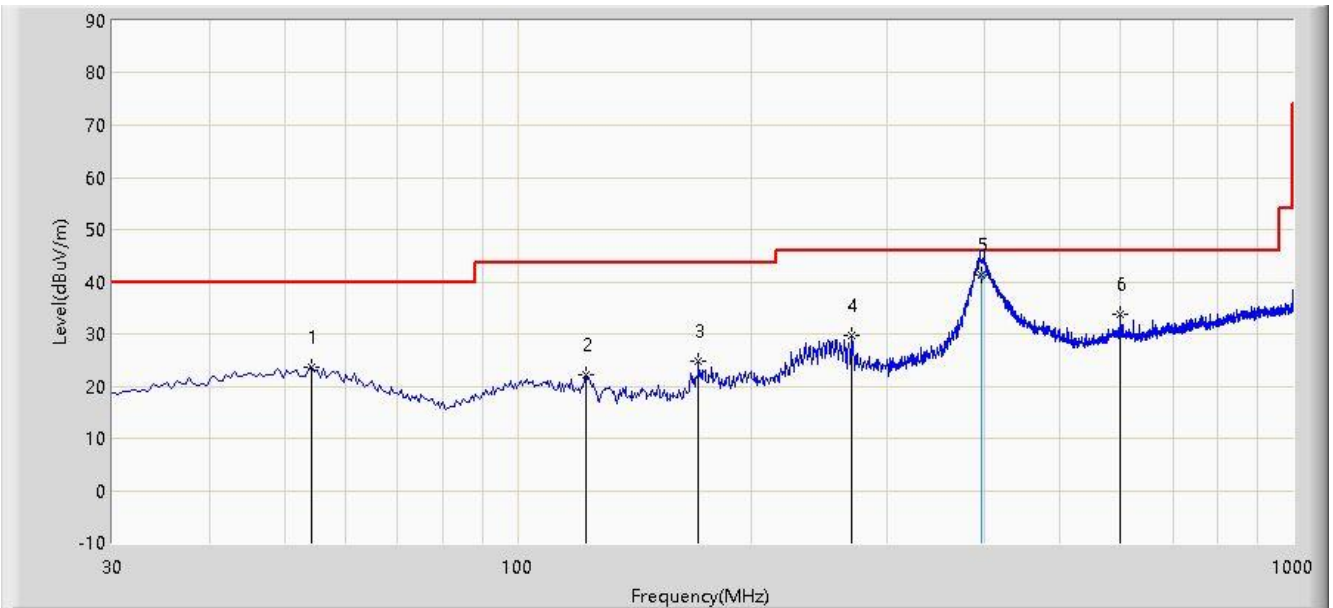
Note 1: "*" means test frequency didn't fall into restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

The Result of Radiated Emission below 1GHz:

Site: WZ-AC2	Time: 2021/01/11 - 19:16
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: WZ-AC2_VULB9162_0.03-7GHz	Polarity: Horizontal
EUT: GPON ONT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at Channel 2422MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB)	Type
1			54.250	23.552	3.242	-16.448	40.000	20.310	PK
2			122.635	22.030	5.537	-21.470	43.500	16.493	PK
3			171.135	24.912	8.583	-18.588	43.500	16.329	PK
4			270.075	29.740	9.342	-16.260	46.000	20.398	PK
5		*	396.000	41.164	17.530	-4.836	46.000	23.633	QP
6			599.875	33.801	6.374	-12.199	46.000	27.428	PK

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

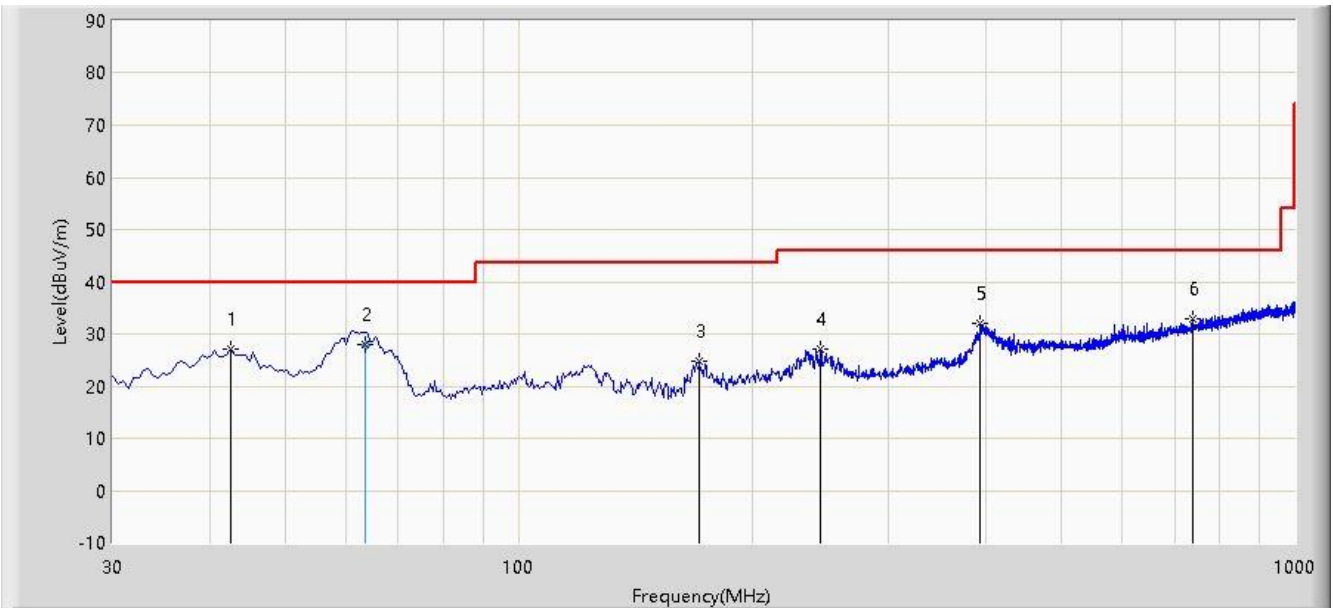
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value.

Therefore, the data is not presented in the report.

Note 3: QP measurement was not performed when peak measure level was lower than the QP limit by more than 10dB.

Site: WZ-AC2	Time: 2021/01/11 - 19:23
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: WZ-AC2_VULB9162_0.03-7GHz	Polarity: Vertical
EUT: GPON ONT	Power: AC 120V/60Hz
Worst Case Mode: Transmit by 802.11n-HT40 at Channel 2422MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB)	Type
1			42.610	27.119	7.022	-12.881	40.000	20.097	PK
2		*	63.465	28.107	9.600	-11.893	40.000	18.508	QP
3			171.135	24.802	8.473	-18.698	43.500	16.329	PK
4			245.340	27.171	7.266	-18.829	46.000	19.906	PK
5			393.265	32.171	8.612	-13.829	46.000	23.559	PK
6			737.615	32.967	3.751	-13.033	46.000	29.216	PK

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value.

Therefore, the data is not presented in the report.

Note 3: QP measurement was not performed when peak measure level was lower than the QP limit by more than 10dB.

6.7. Radiated Restricted Band Edge Measurement

6.7.1. Test Limit

For 15.205 requirement:

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

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	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	--	--	--

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

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

6.7.2.Test Procedure Used

ANSI C63.10-2013 - Section 6.3

ANSI C63.10-2013 - Section 6.6

ANSI C63.10-2013 - Section 11.13

6.7.3.Test Setting

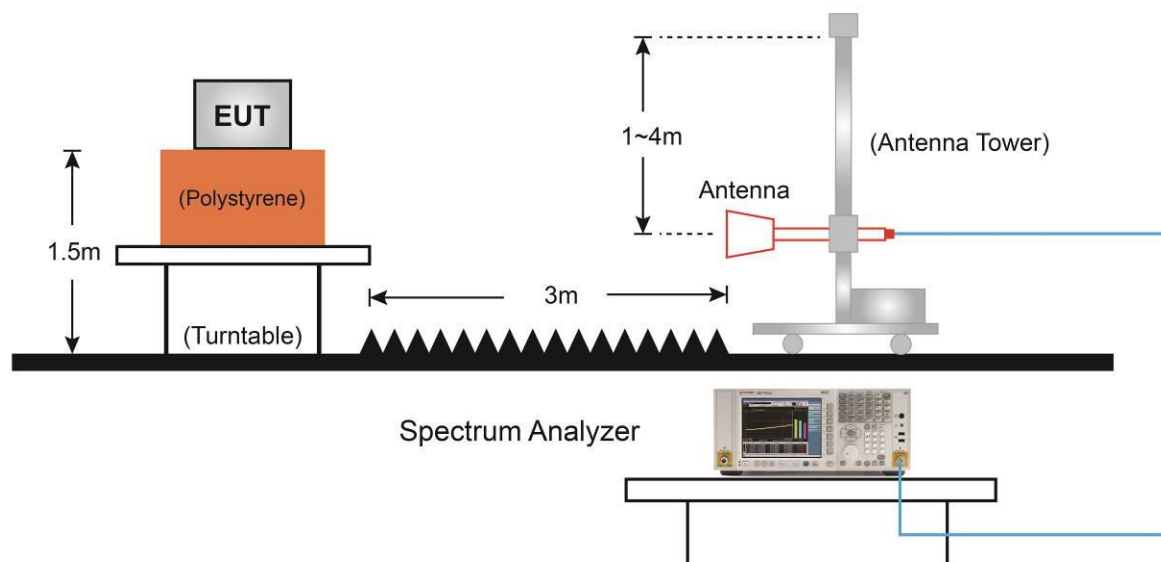
Peak Field Strength Measurements

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

Average Field Strength Measurements

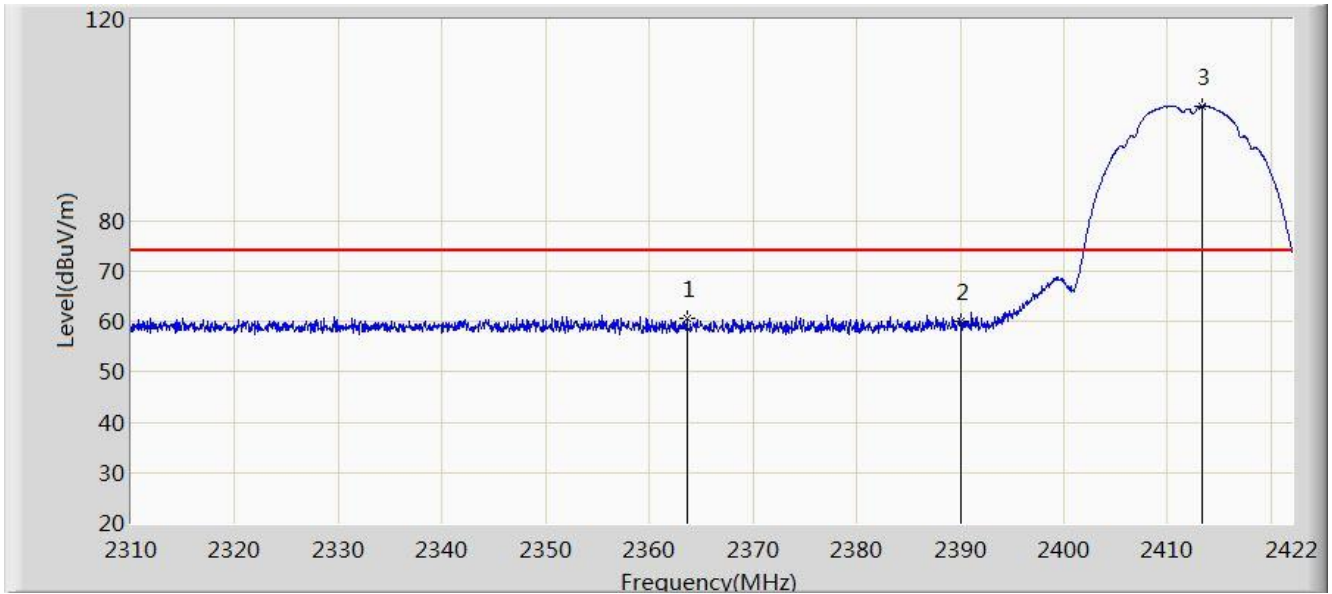
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW $\geq 1/T$
4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
5. Detector = Peak
6. Sweep time = auto
7. Trace mode = max hold
8. Allow max hold to run for at least 50 times (1/duty cycle) traces

6.7.4. Test Setup



6.7.5.Test Result

Site: WZ-AC1	Time: 2020/09/09 - 09:39
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GPON ONT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2412MHz	

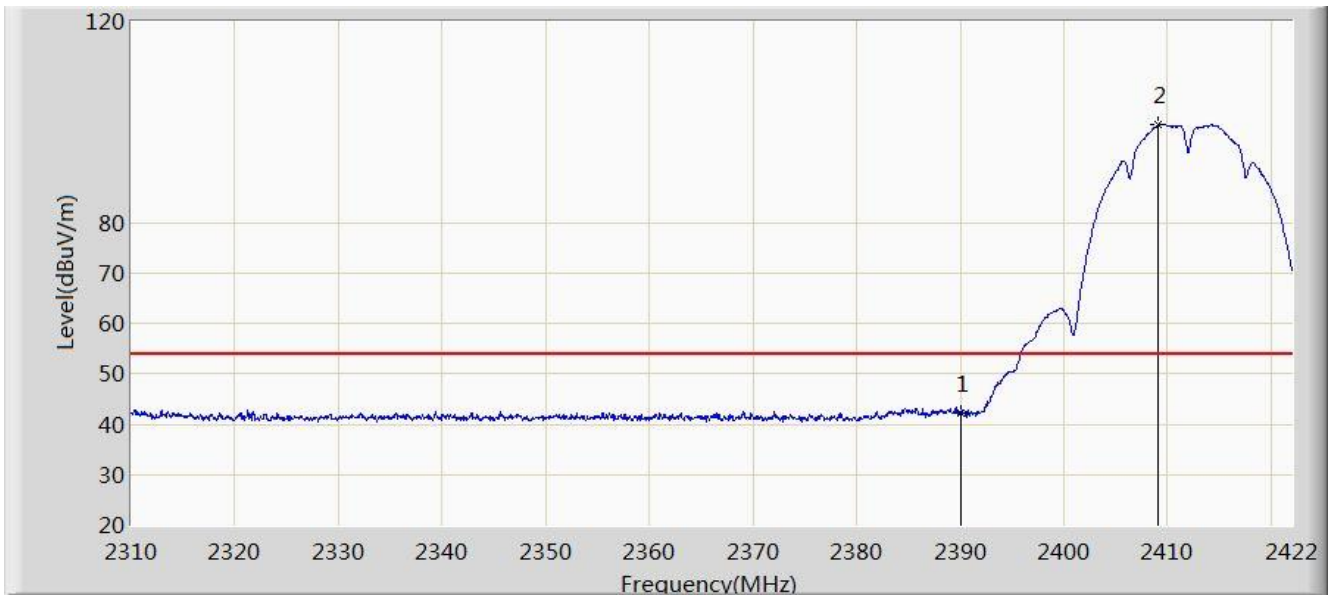


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB)	Type
1			2363.592	60.663	27.915	-13.337	74.000	32.749	PK
2			2390.000	60.166	27.454	-13.834	74.000	32.712	PK
3		*	2413.320	102.831	70.102	N/A	N/A	32.728	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2020/09/09 - 09:42
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GPON ONT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2412MHz	

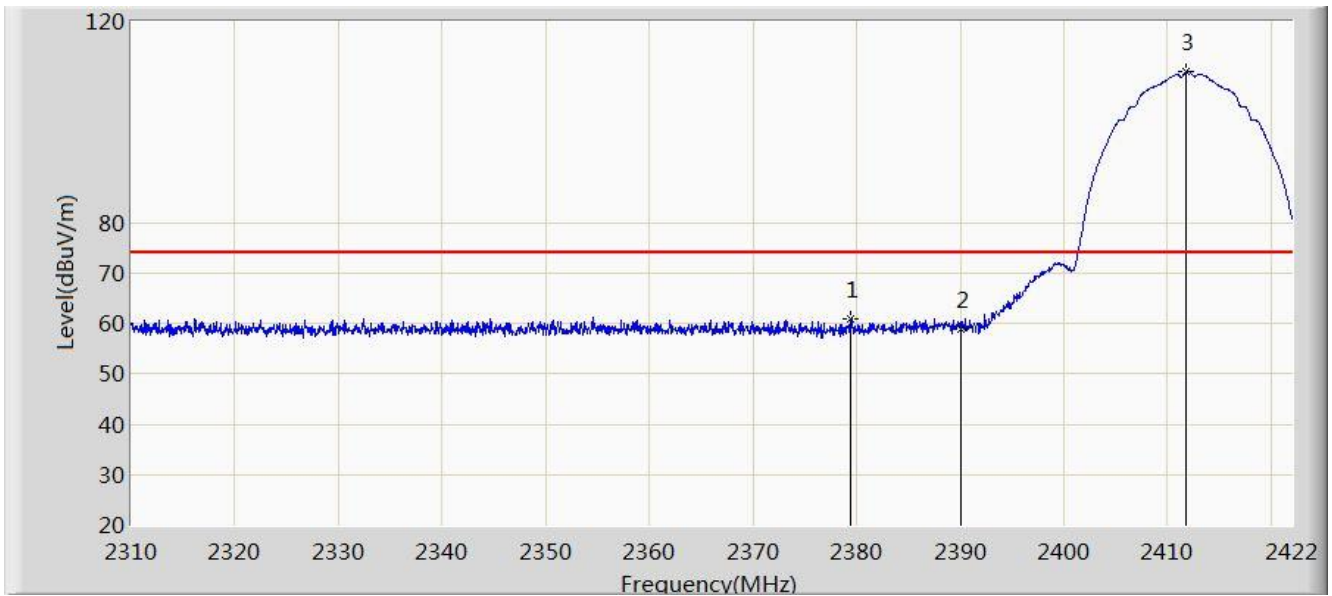


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	42.327	9.615	-11.673	54.000	32.712	AV
2		*	2409.064	99.452	66.718	N/A	N/A	32.734	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2020/09/09 - 09:53
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GPON ONT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2412MHz	

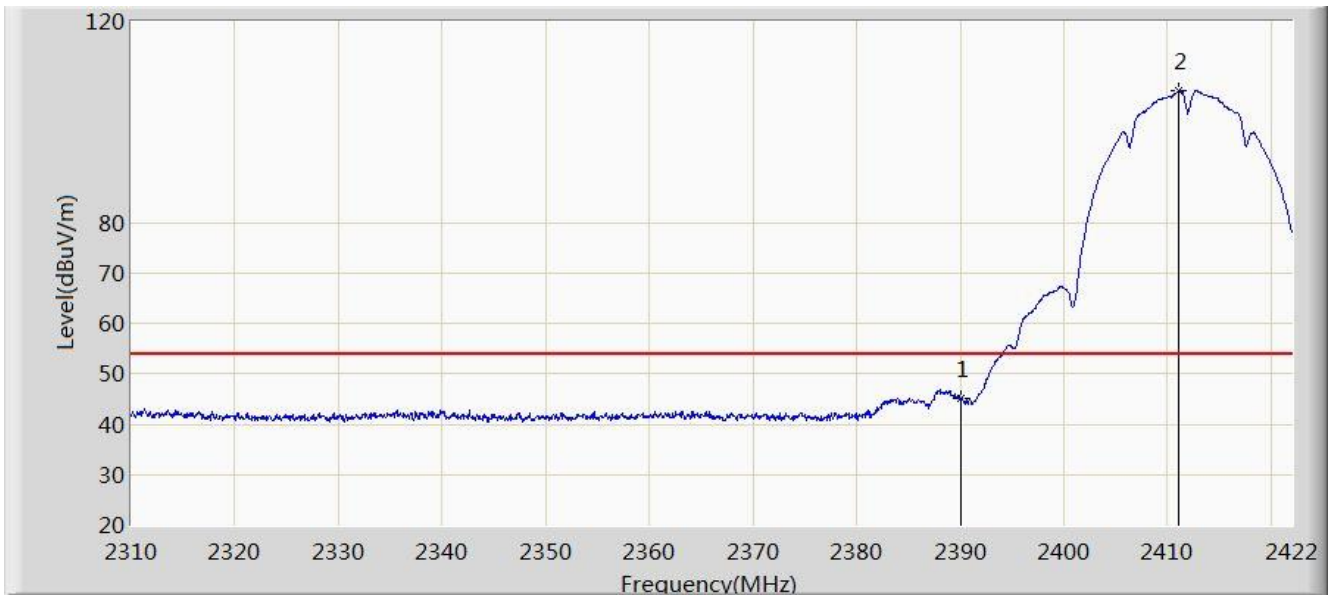


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB)	Type
1			2379.384	60.962	28.296	-13.038	74.000	32.666	PK
2			2390.000	58.984	26.272	-15.016	74.000	32.712	PK
3		*	2411.808	110.049	77.319	N/A	N/A	32.730	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC1	Time: 2020/09/09 - 09:55
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GPON ONT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2412MHz	

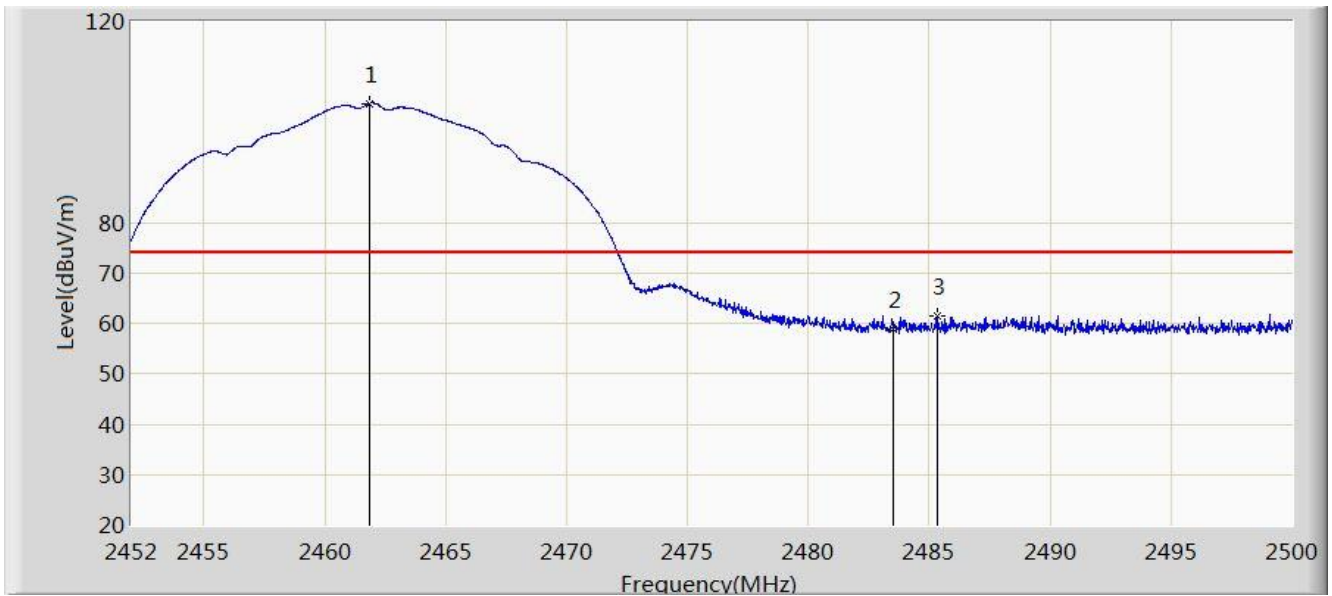


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB)	Type
1			2390.000	45.194	12.482	-8.806	54.000	32.712	AV
2		*	2411.080	106.232	73.501	N/A	N/A	32.731	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2020/09/09 - 09:57
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GPON ONT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2462MHz	

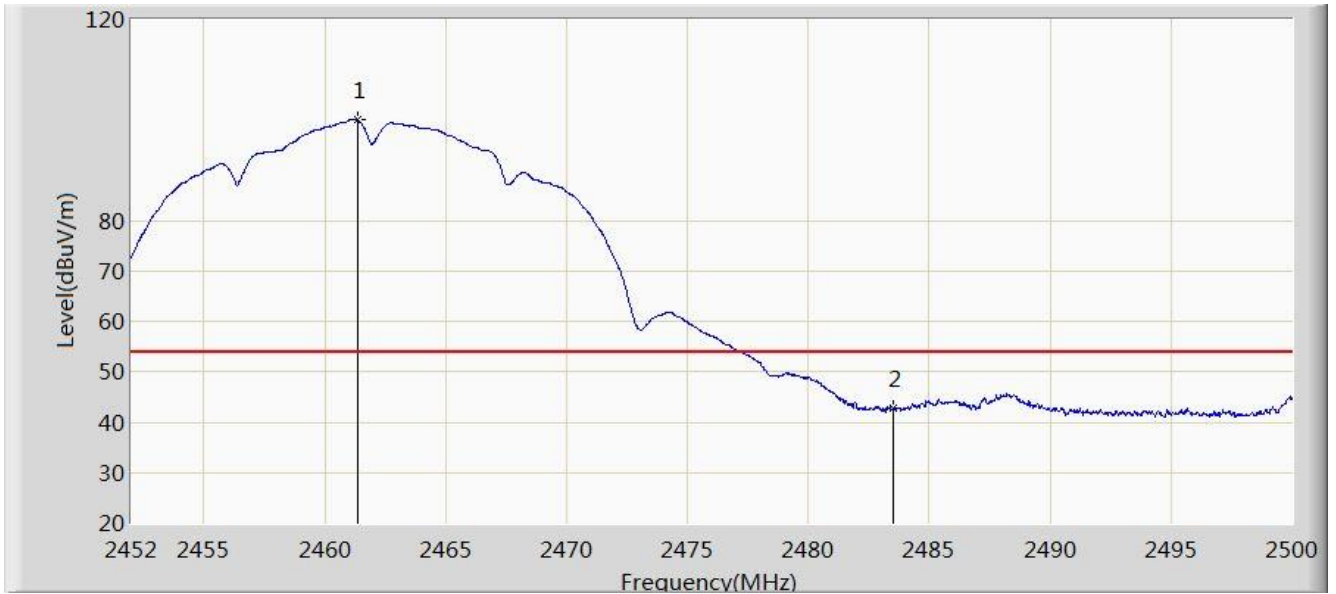


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2461.840	103.729	70.973	N/A	N/A	32.756	PK
2			2483.530	58.920	26.270	-15.080	74.000	32.650	PK
3			2485.360	61.653	29.019	-12.347	74.000	32.634	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2020/09/09 - 09:59
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GPON ONT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2462MHz	

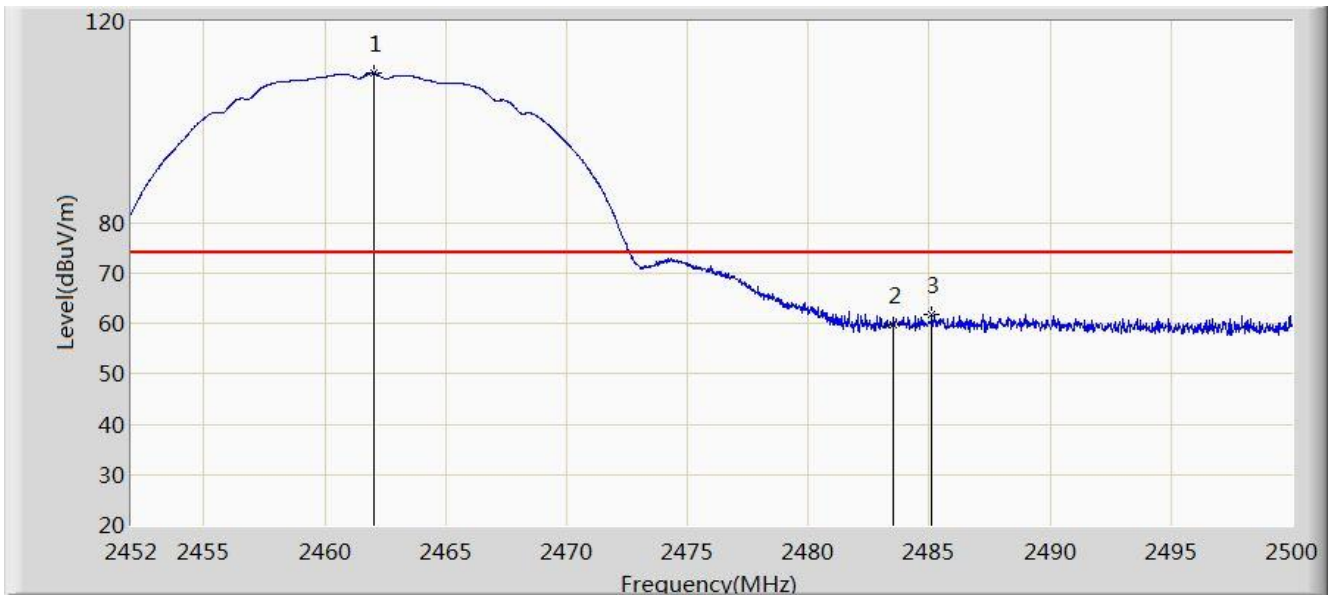


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2461.384	99.976	67.221	N/A	N/A	32.754	AV
2			2483.500	42.739	10.089	-11.261	54.000	32.651	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2020/09/09 - 10:00
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GPON ONT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2462MHz	

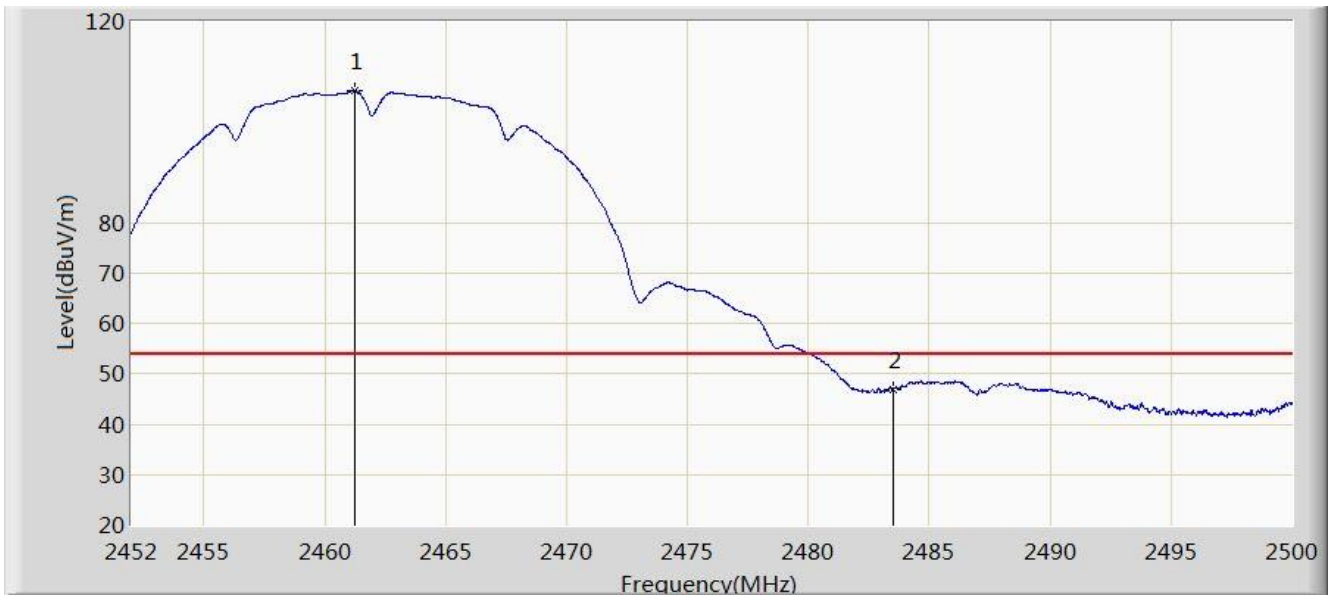


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2462.056	109.687	76.930	N/A	N/A	32.757	PK
2			2483.500	59.855	27.205	-14.145	74.000	32.651	PK
3			2485.120	61.911	29.275	-12.089	74.000	32.636	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2020/09/09 - 10:01
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GPON ONT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2462MHz	

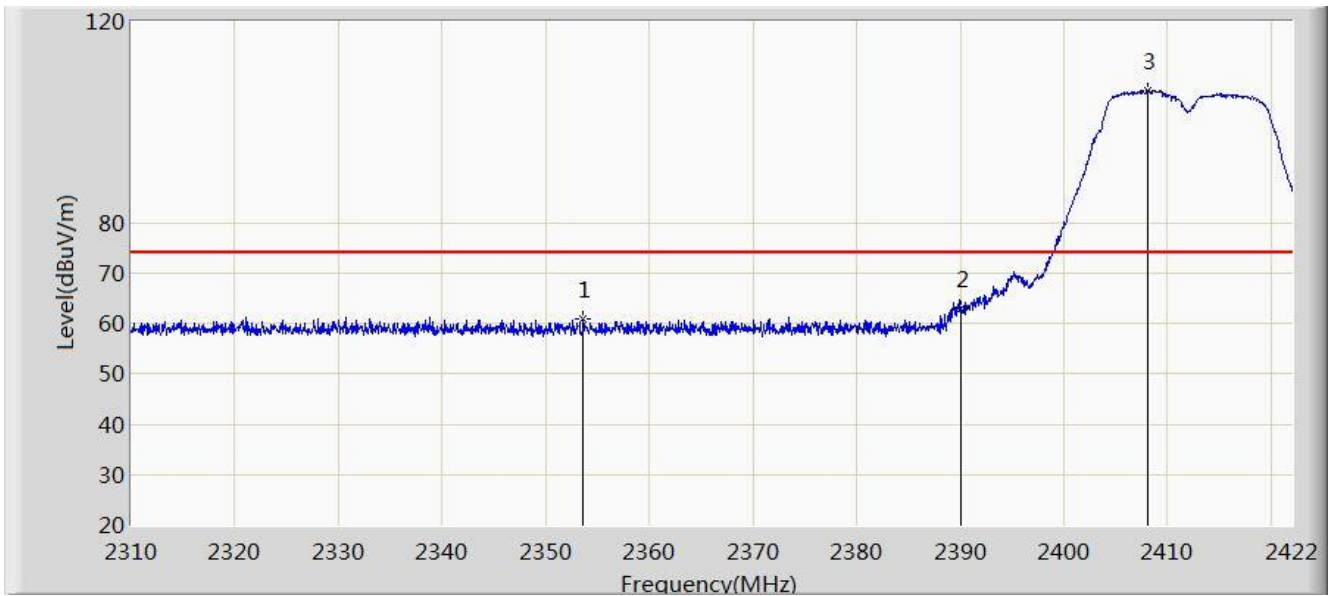


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB)	Type
1		*	2461.240	106.222	73.468	N/A	N/A	32.754	AV
2			2483.500	46.970	14.320	-7.030	54.000	32.651	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2020/09/09 - 10:04
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GPON ONT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at channel 2412MHz	

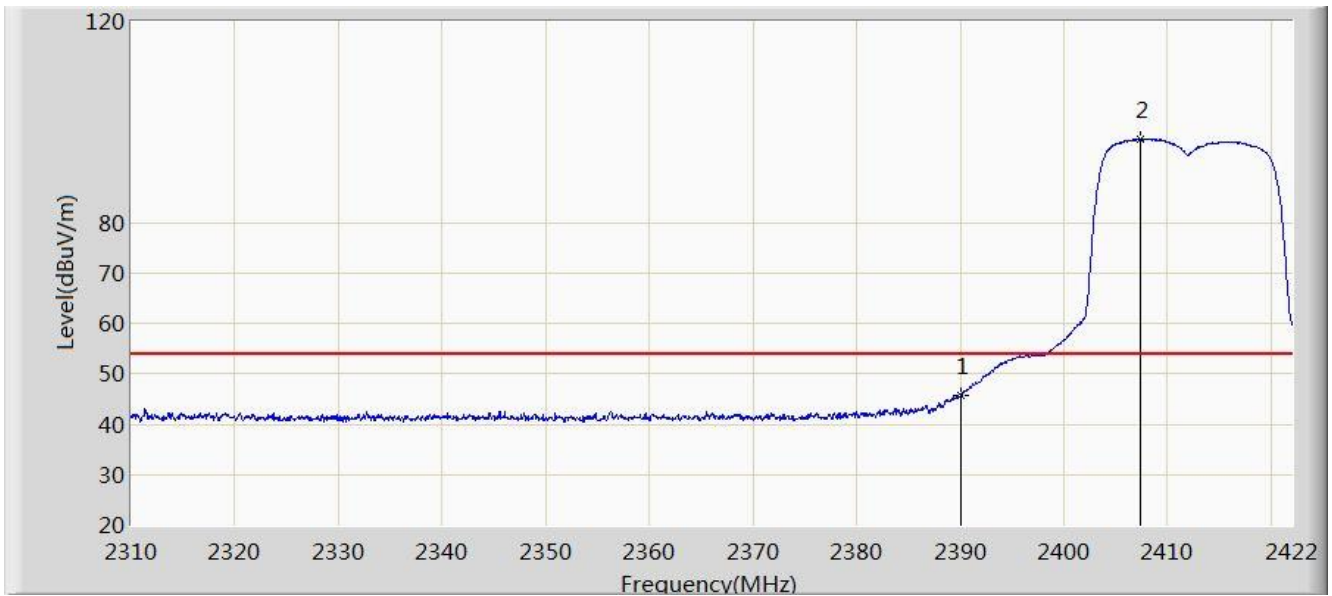


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2353.624	60.883	28.105	-13.117	74.000	32.778	PK
2			2390.000	62.955	30.243	-11.045	74.000	32.712	PK
3		*	2408.112	106.237	73.502	N/A	N/A	32.735	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC1	Time: 2020/09/09 - 10:17
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GPON ONT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at channel 2412MHz	

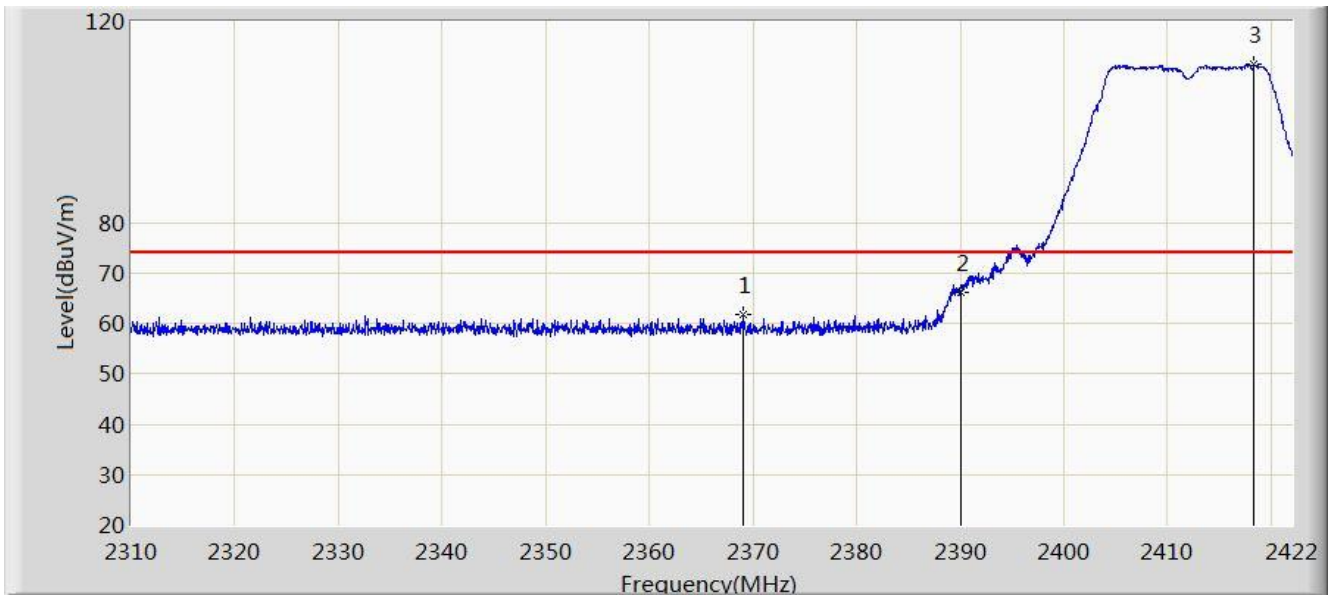


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	45.798	13.086	-8.202	54.000	32.712	AV
2		*	2407.328	96.601	63.865	N/A	N/A	32.736	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2020/09/09 - 10:18
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GPON ONT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at channel 2412MHz	

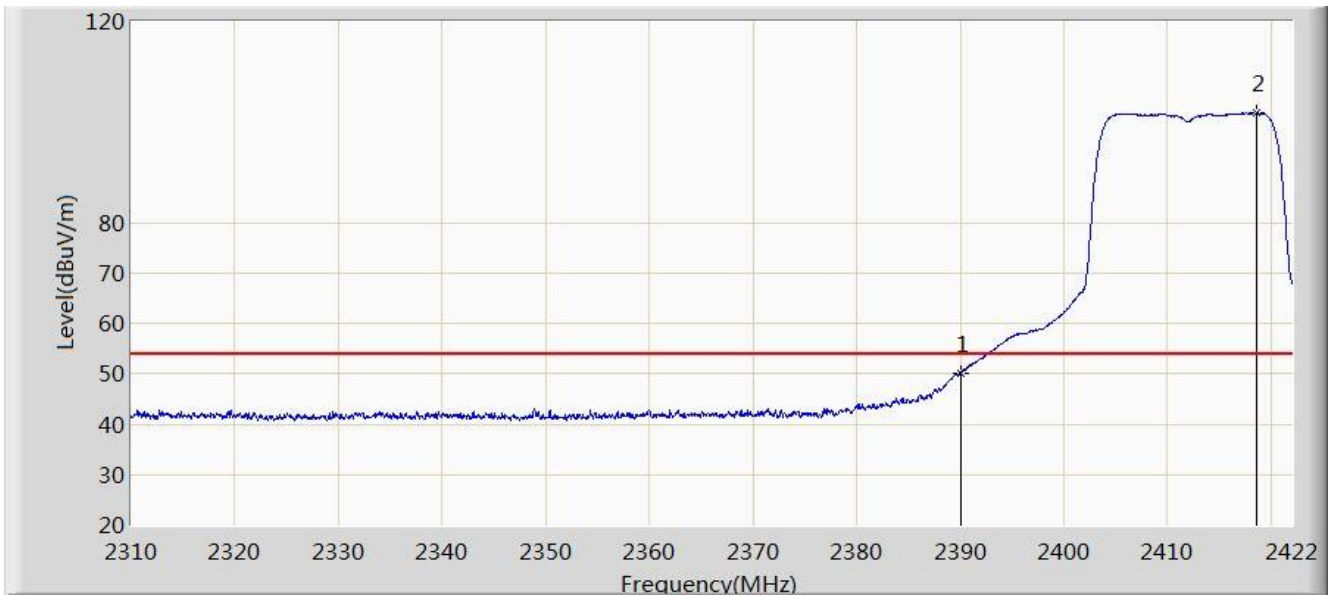


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2369.080	61.796	29.076	-12.204	74.000	32.719	PK
2			2390.000	66.230	33.518	-7.770	74.000	32.712	PK
3		*	2418.304	111.512	78.781	N/A	N/A	32.731	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2020/09/09 - 10:20
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GPON ONT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at channel 2412MHz	

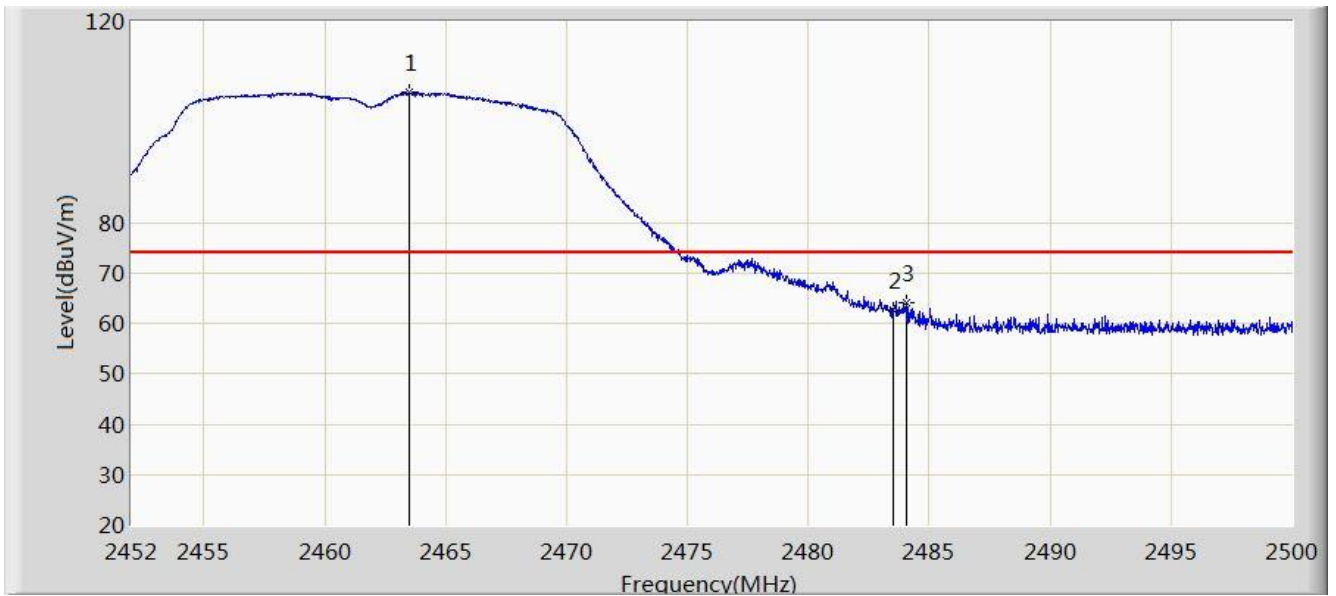


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	50.161	17.449	-3.839	54.000	32.712	AV
2		*	2418.584	101.864	69.133	N/A	N/A	32.732	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2020/09/09 - 10:22
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GPON ONT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at channel 2462MHz	

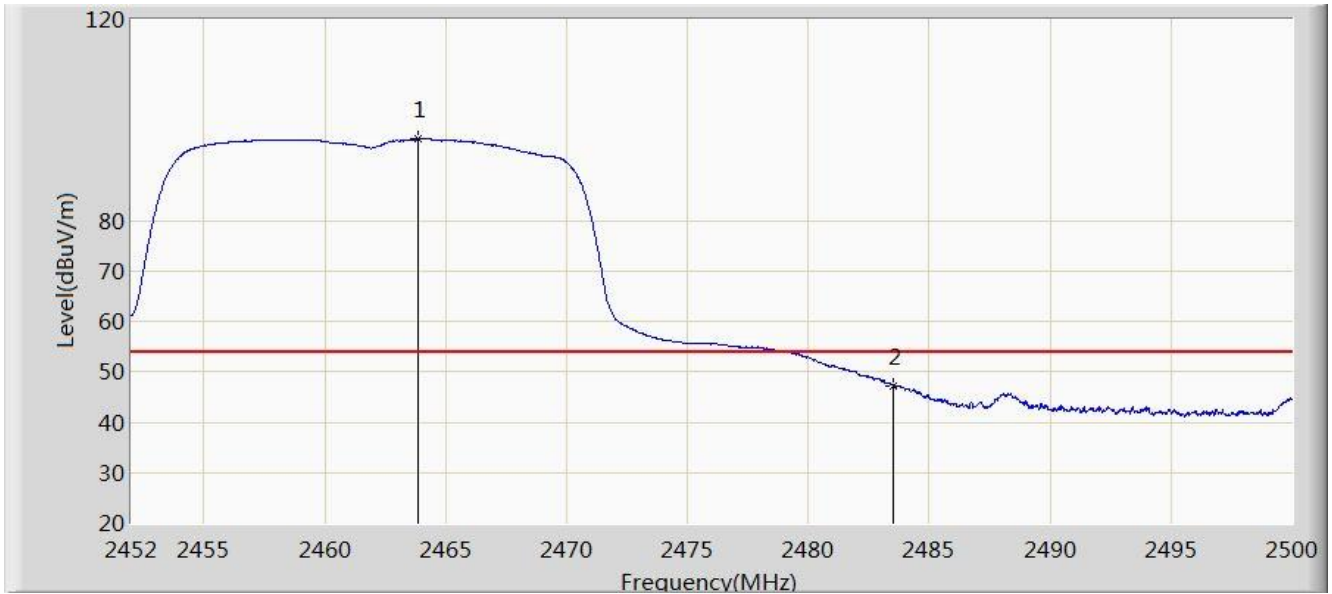


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB)	Type
1		*	2463.496	105.894	73.133	N/A	N/A	32.761	PK
2			2483.500	62.712	30.062	-11.288	74.000	32.651	PK
3			2484.088	64.060	31.415	-9.940	74.000	32.645	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2020/09/09 - 10:23
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GPON ONT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at channel 2462MHz	

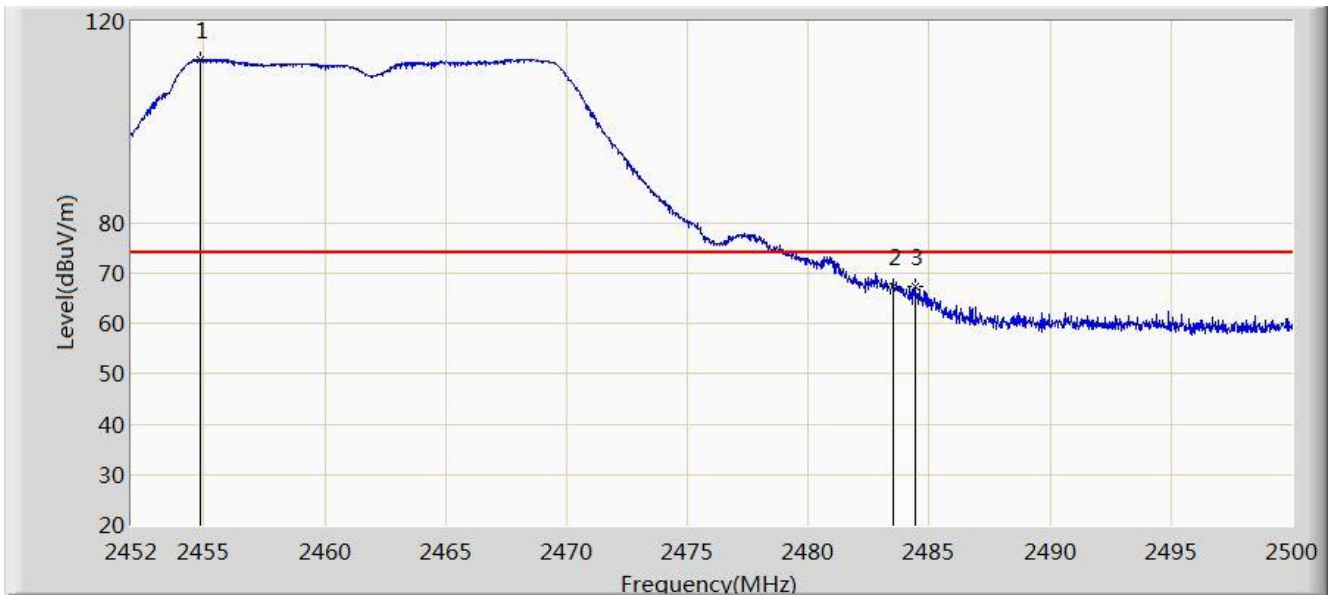


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB)	Type
1		*	2463.856	96.291	63.528	N/A	N/A	32.763	AV
2			2483.500	47.290	14.640	-6.710	54.000	32.651	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2020/09/09 - 10:25
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GPON ONT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at channel 2462MHz	

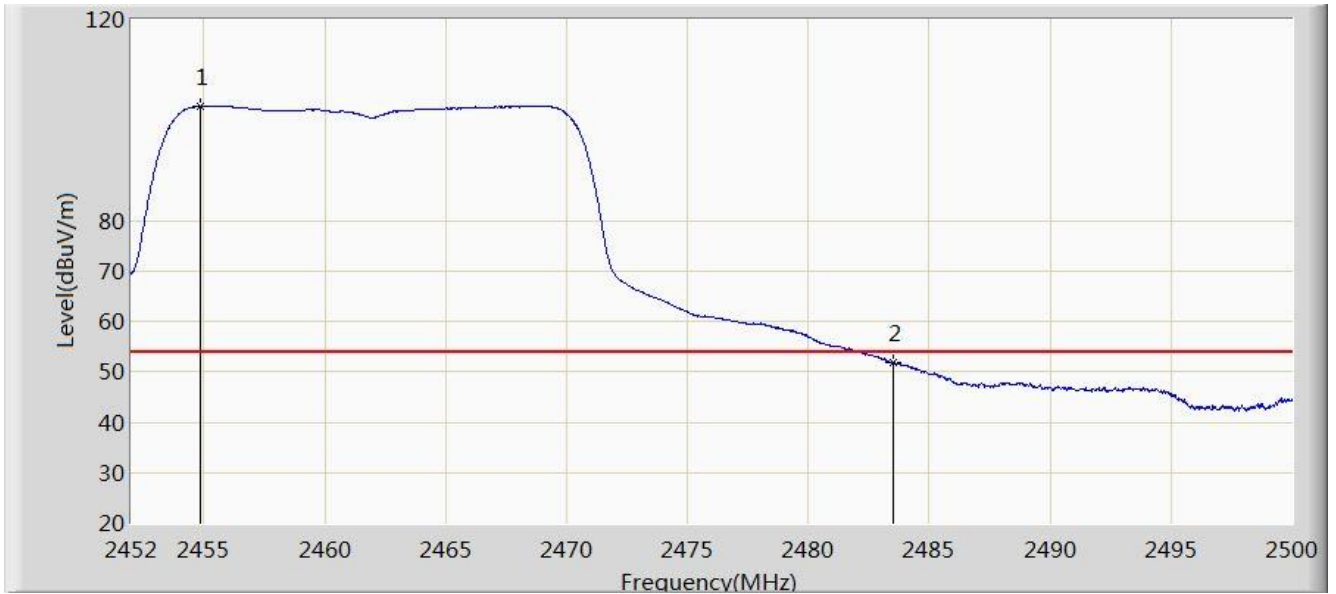


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2454.856	112.416	79.685	N/A	N/A	32.731	PK
2			2483.500	67.298	34.648	-6.702	74.000	32.651	PK
3			2484.424	67.230	34.588	-6.770	74.000	32.642	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2020/09/09 - 10:26
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GPON ONT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at channel 2462MHz	

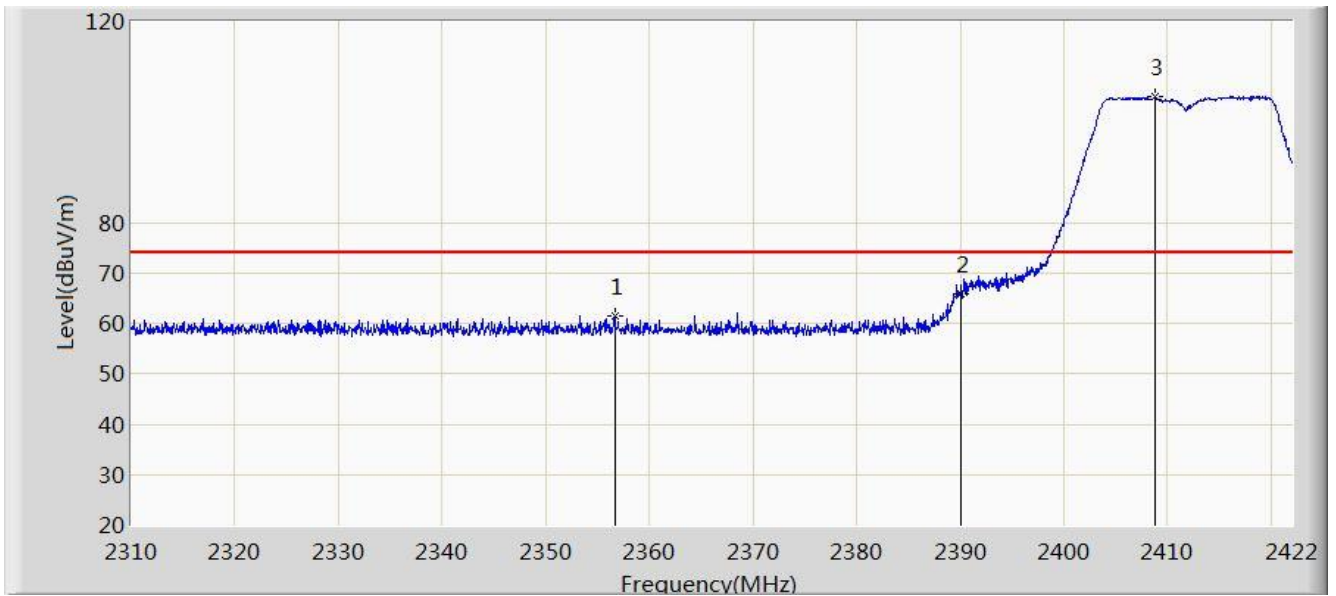


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB)	Type
1		*	2454.856	102.778	70.047	N/A	N/A	32.731	AV
2			2483.500	51.873	19.223	-2.127	54.000	32.651	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2020/09/09 - 10:30
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GPON ONT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at channel 2412MHz	

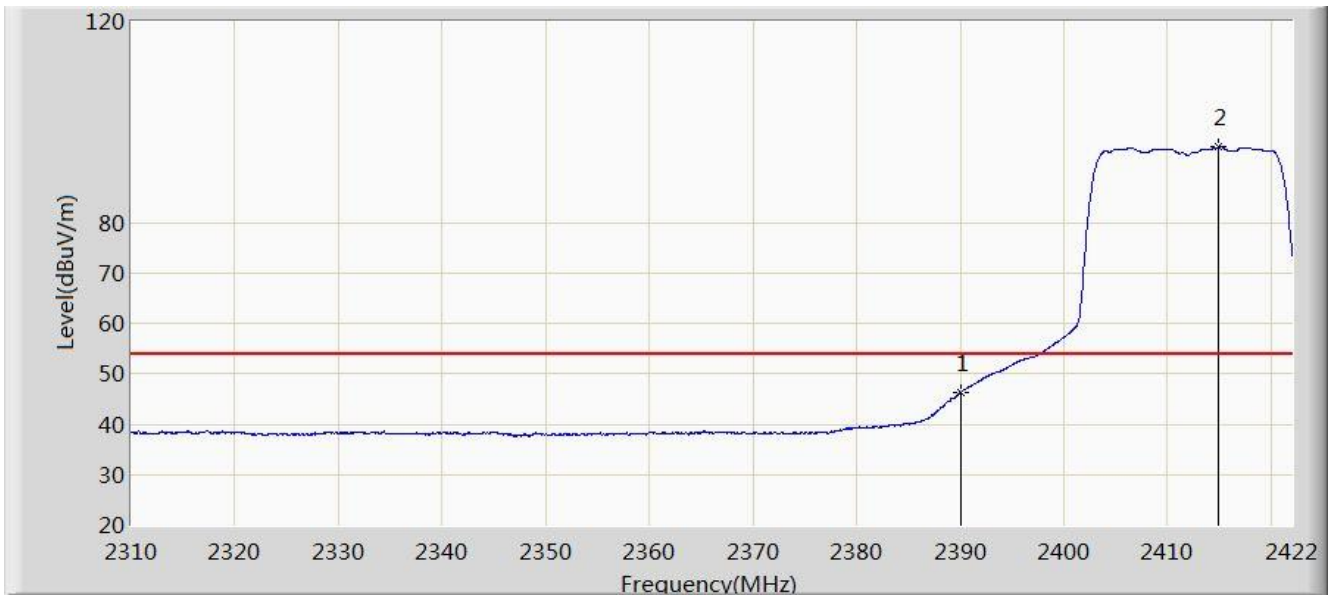


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2356.648	61.429	28.658	-12.571	74.000	32.771	PK
2			2390.000	65.985	33.273	-8.015	74.000	32.712	PK
3		*	2408.728	104.953	72.219	N/A	N/A	32.734	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2020/09/09 - 10:35
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GPON ONT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at channel 2412MHz	

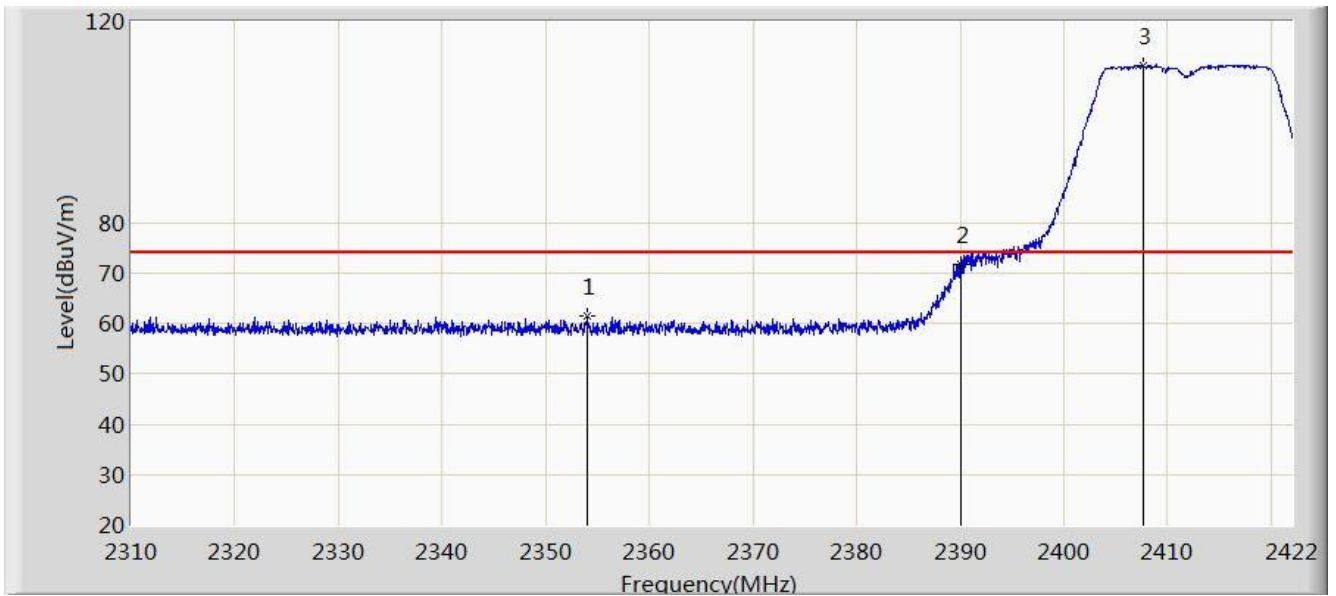


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	46.265	13.553	-7.735	54.000	32.712	AV
2		*	2414.888	95.010	62.283	N/A	N/A	32.727	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2020/09/09 - 10:35
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GPON ONT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at channel 2412MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2354.072	61.496	28.719	-12.504	74.000	32.777	PK
2			2390.000	71.844	39.132	-2.156	74.000	32.712	PK
3		*	2407.664	111.187	78.451	N/A	N/A	32.735	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2020/09/09 - 10:36
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GPON ONT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at channel 2412MHz	

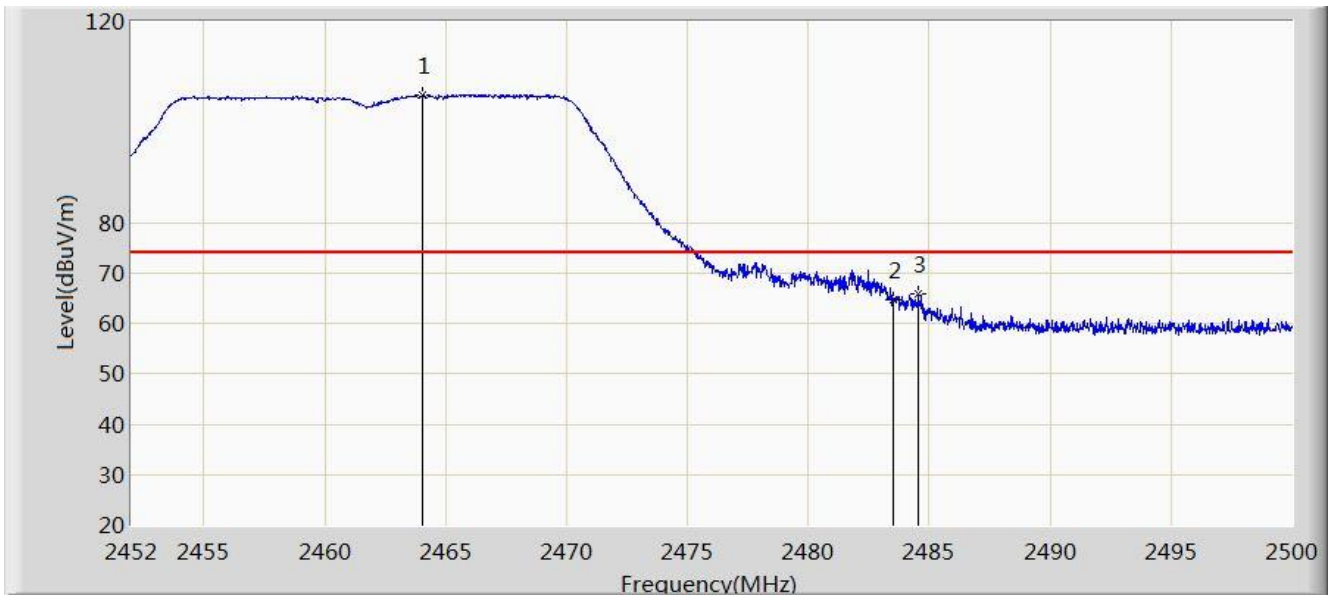


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	51.606	18.894	-2.394	54.000	32.712	AV
2		*	2414.720	101.215	68.488	N/A	N/A	32.727	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2020/09/09 - 11:09
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GPON ONT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at channel 2462MHz	

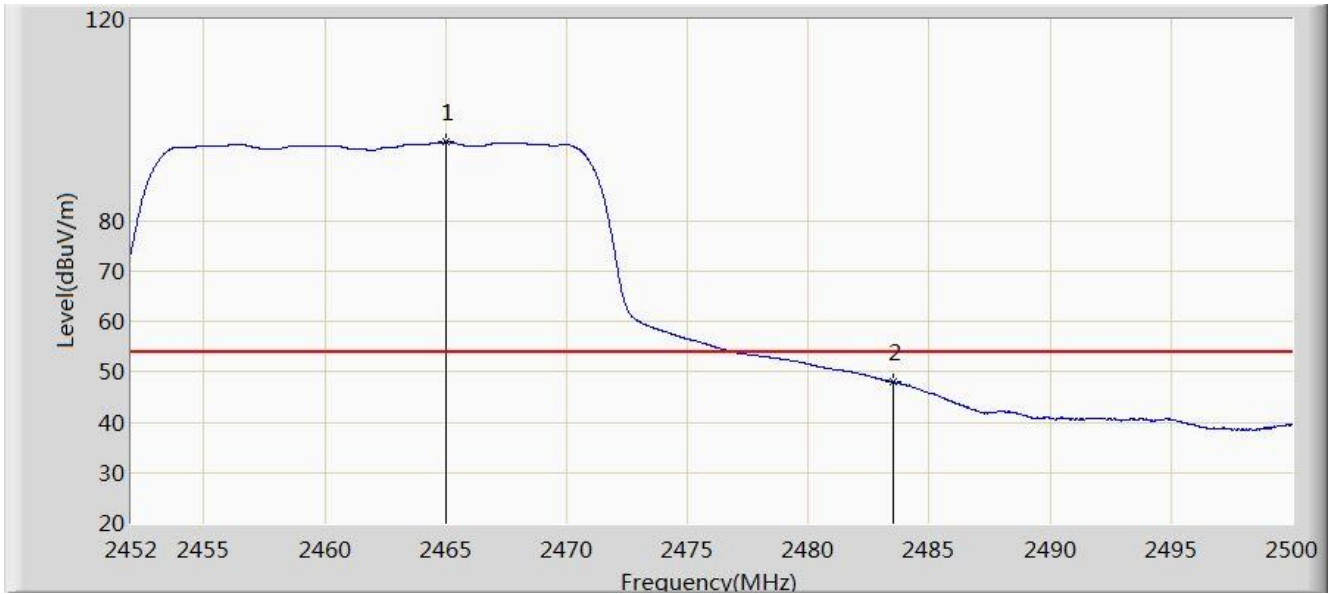


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2464.072	105.276	72.513	N/A	N/A	32.763	PK
2			2483.500	64.608	31.958	-9.392	74.000	32.651	PK
3			2484.568	65.875	33.234	-8.125	74.000	32.641	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2020/09/09 - 11:12
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GPON ONT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at channel 2462MHz	

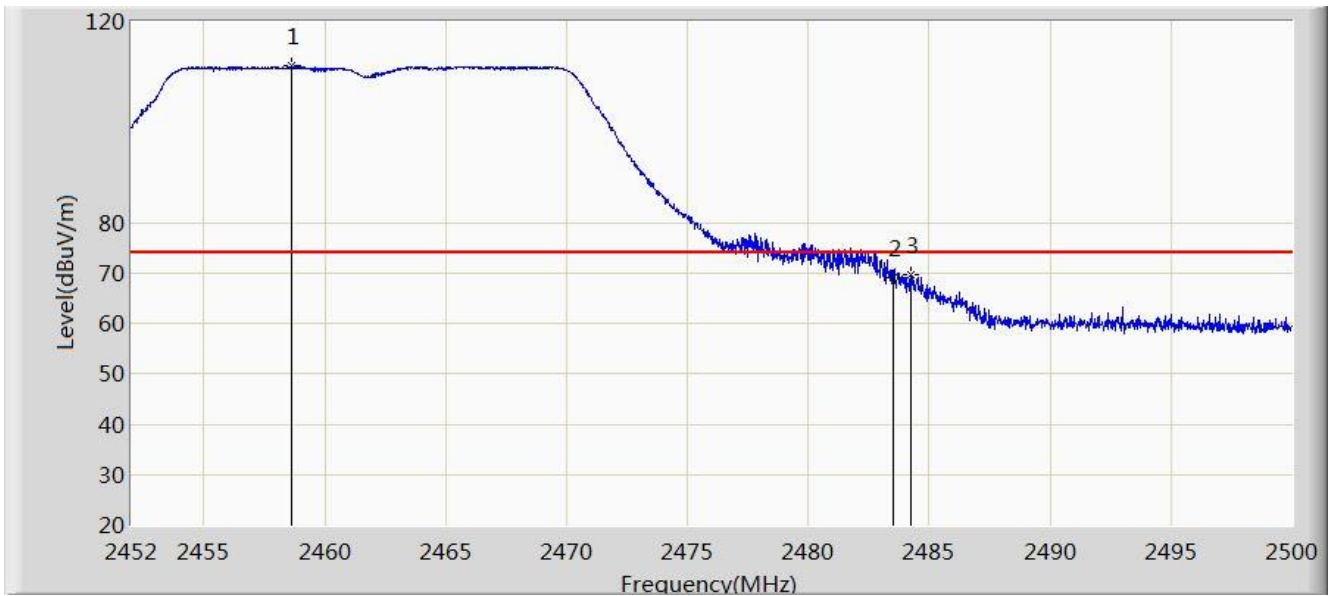


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB)	Type
1		*	2465.032	95.621	62.855	N/A	N/A	32.767	AV
2			2483.500	47.995	15.345	-6.005	54.000	32.651	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2020/09/09 - 11:13
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GPON ONT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at channel 2462MHz	

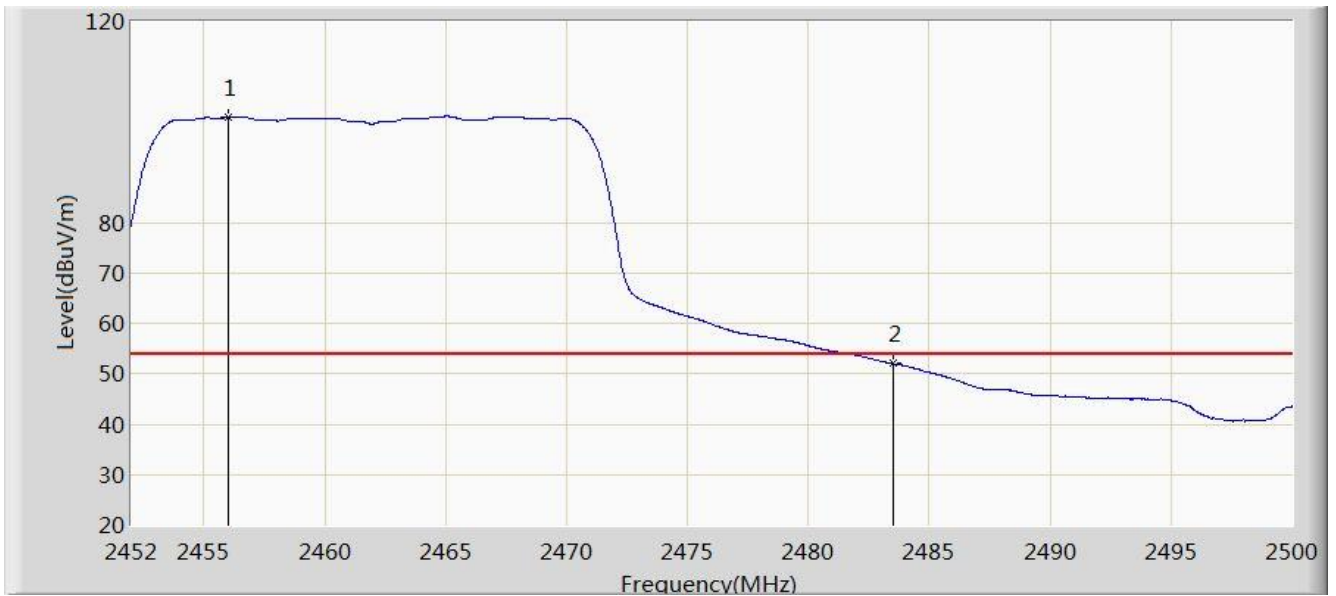


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2458.648	111.203	78.458	N/A	N/A	32.745	PK
2			2483.500	69.112	36.462	-4.888	74.000	32.651	PK
3			2484.232	69.663	37.019	-4.337	74.000	32.644	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2020/09/09 - 11:14
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GPON ONT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at channel 2462MHz	

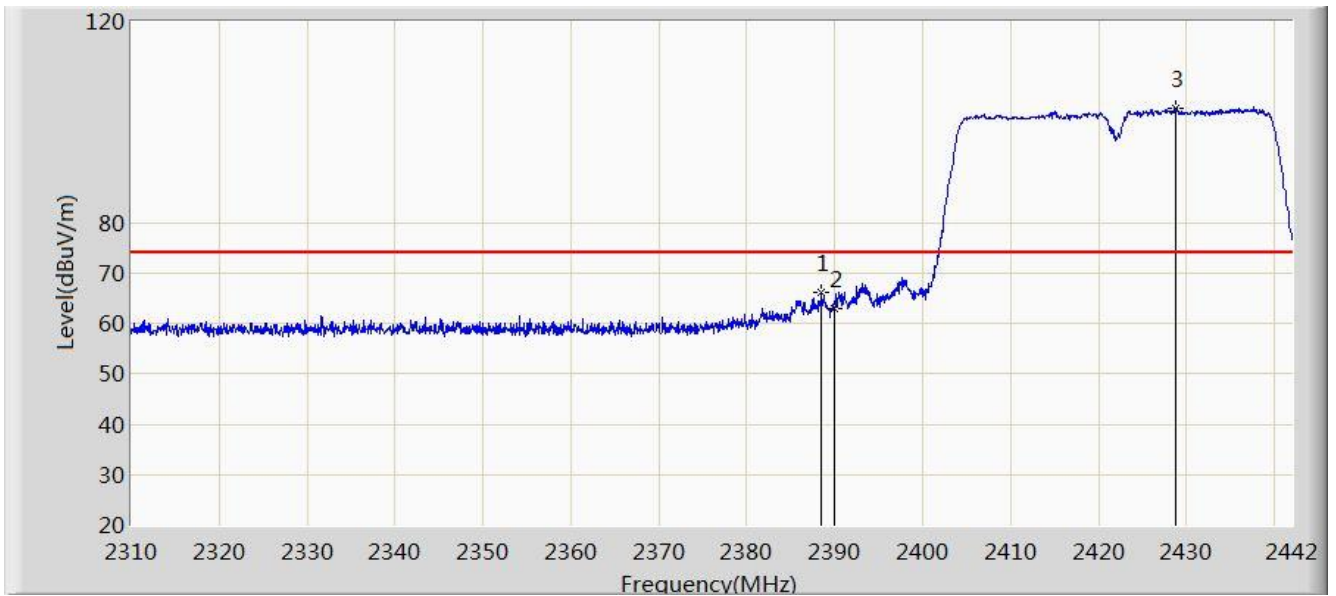


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2456.008	100.908	68.173	N/A	N/A	32.735	AV
2			2483.500	52.052	19.402	-1.948	54.000	32.651	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2020/09/09 - 11:28
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GPON ONT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at channel 2422MHz	

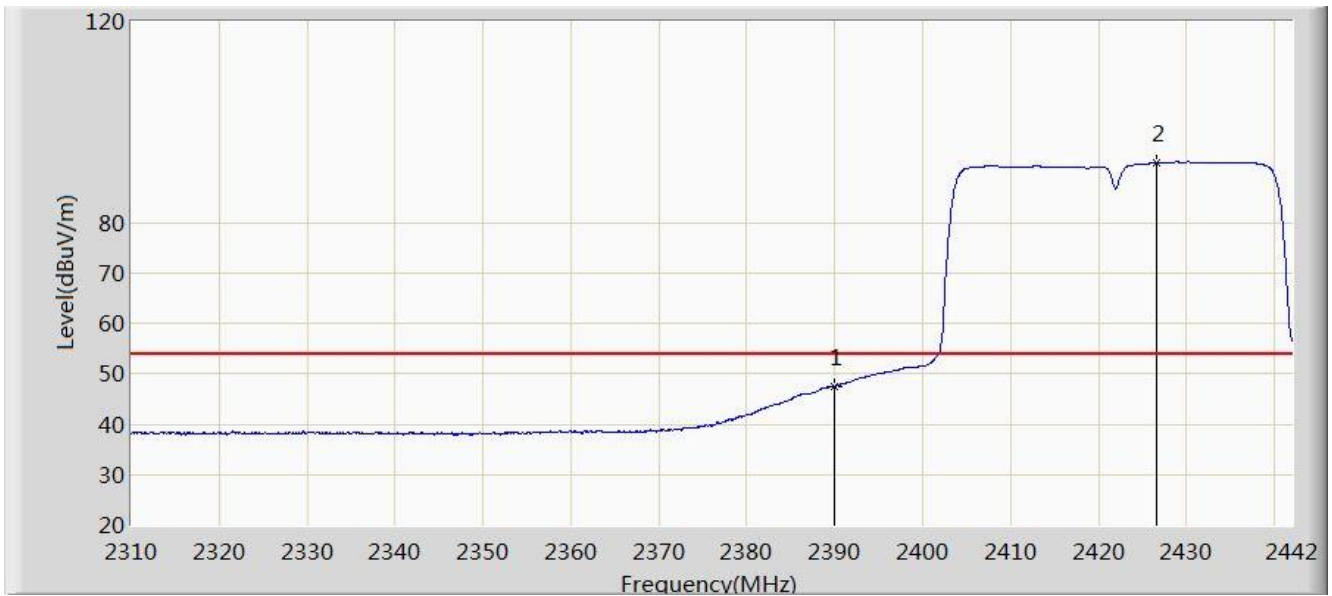


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2388.540	66.098	33.393	-7.902	74.000	32.705	PK
2			2390.000	62.935	30.223	-11.065	74.000	32.712	PK
3		*	2428.866	102.764	70.015	N/A	N/A	32.750	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2020/09/09 - 11:29
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GPON ONT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at channel 2422MHz	

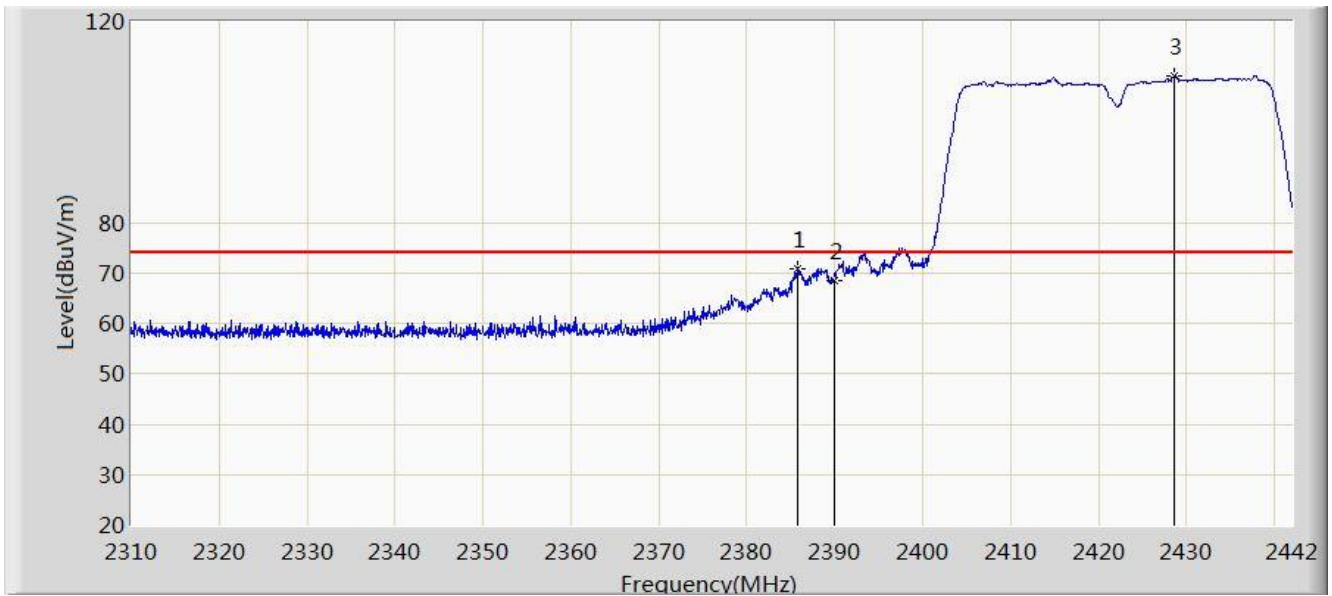


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB)	Type
1			2390.000	47.555	14.843	-6.445	54.000	32.712	AV
2		*	2426.688	91.901	59.155	N/A	N/A	32.746	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2020/09/09 - 11:30
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GPON ONT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at channel 2422MHz	

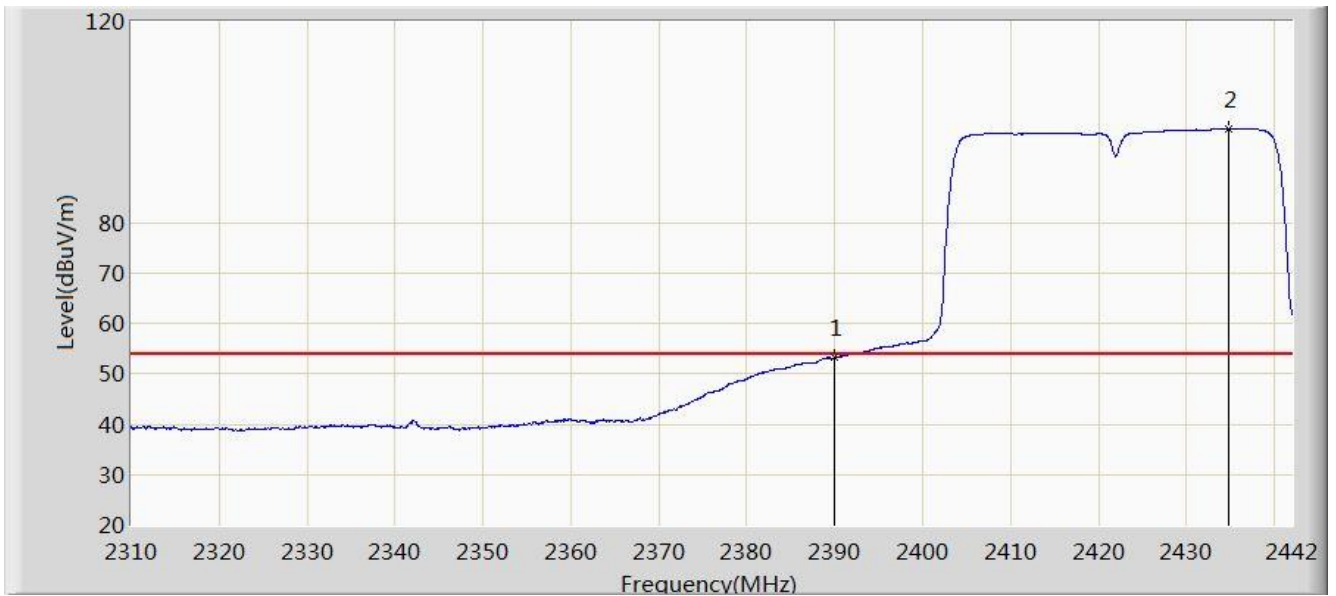


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2385.768	70.994	38.302	-3.006	74.000	32.692	PK
2			2390.000	68.501	35.789	-5.499	74.000	32.712	PK
3		*	2428.536	109.037	76.288	N/A	N/A	32.749	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2020/09/09 - 11:30
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GPON ONT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at channel 2422MHz	

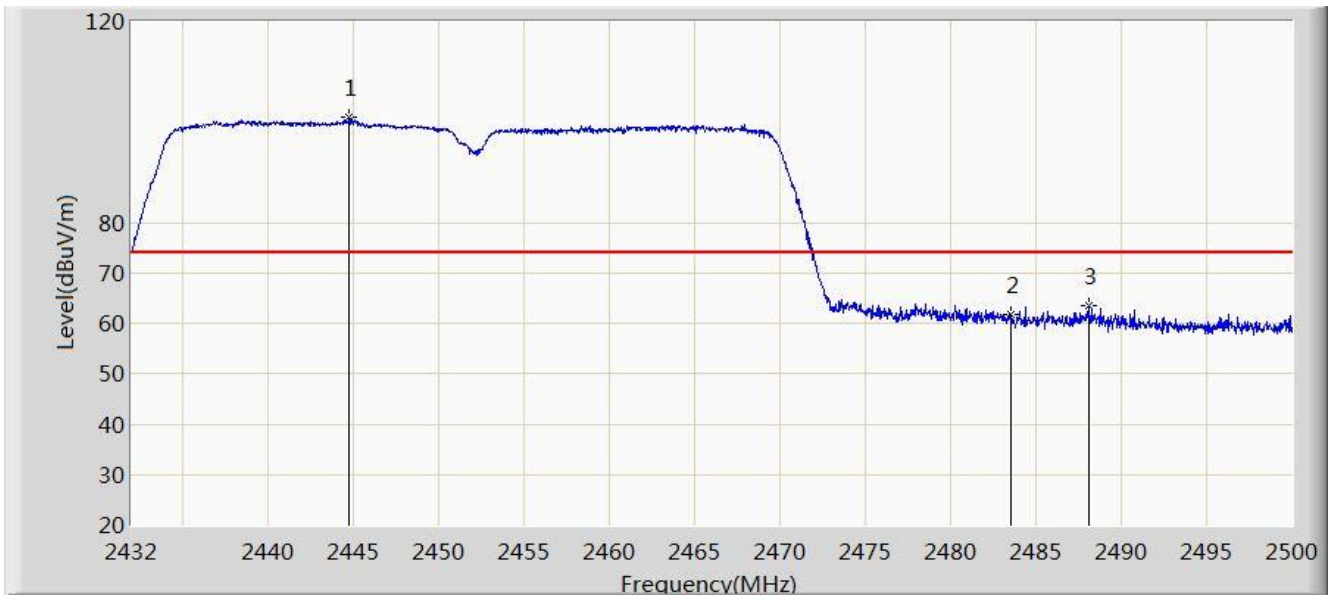


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB)	Type
1			2390.000	53.242	20.530	-0.758	54.000	32.712	AV
2		*	2434.740	98.729	65.974	N/A	N/A	32.755	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2020/09/09 - 11:44
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GPON ONT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at channel 2452MHz	

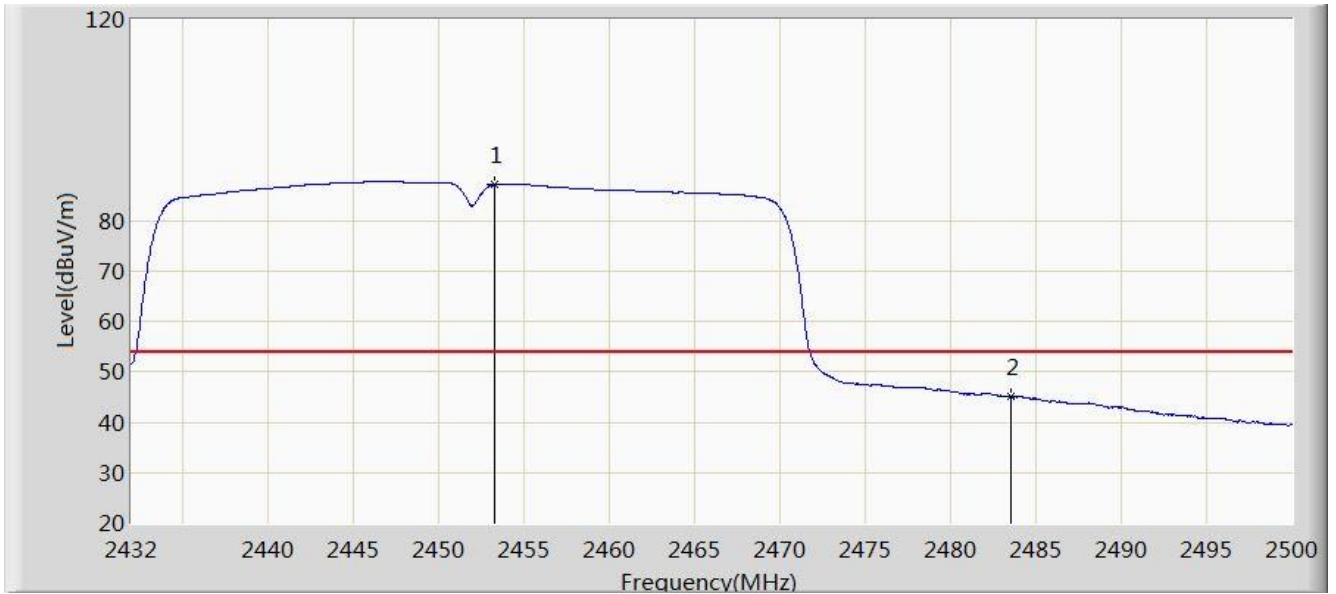


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2444.750	100.858	68.121	N/A	N/A	32.736	PK
2			2483.500	61.779	29.129	-12.221	74.000	32.651	PK
3			2488.134	63.446	30.831	-10.554	74.000	32.615	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2020/09/09 - 11:45
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GPON ONT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at channel 2452MHz	

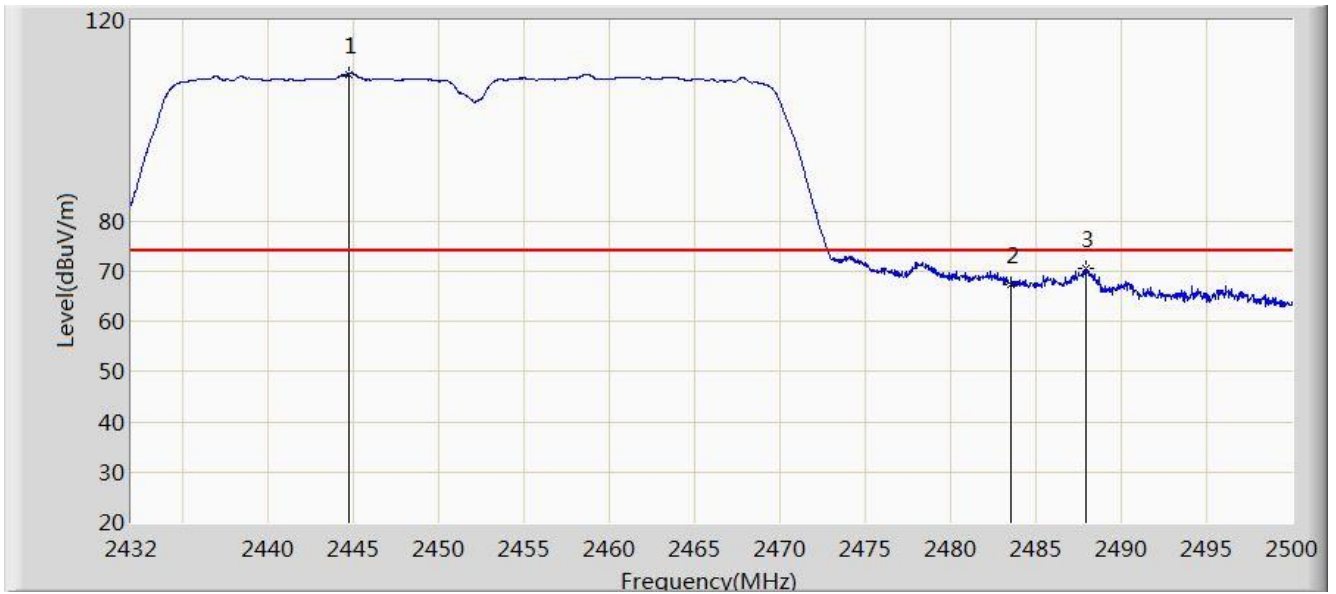


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2453.284	87.244	54.518	N/A	N/A	32.725	AV
2			2483.500	45.047	12.397	-8.953	54.000	32.651	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2020/09/09 - 11:45
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GPON ONT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at channel 2452MHz	

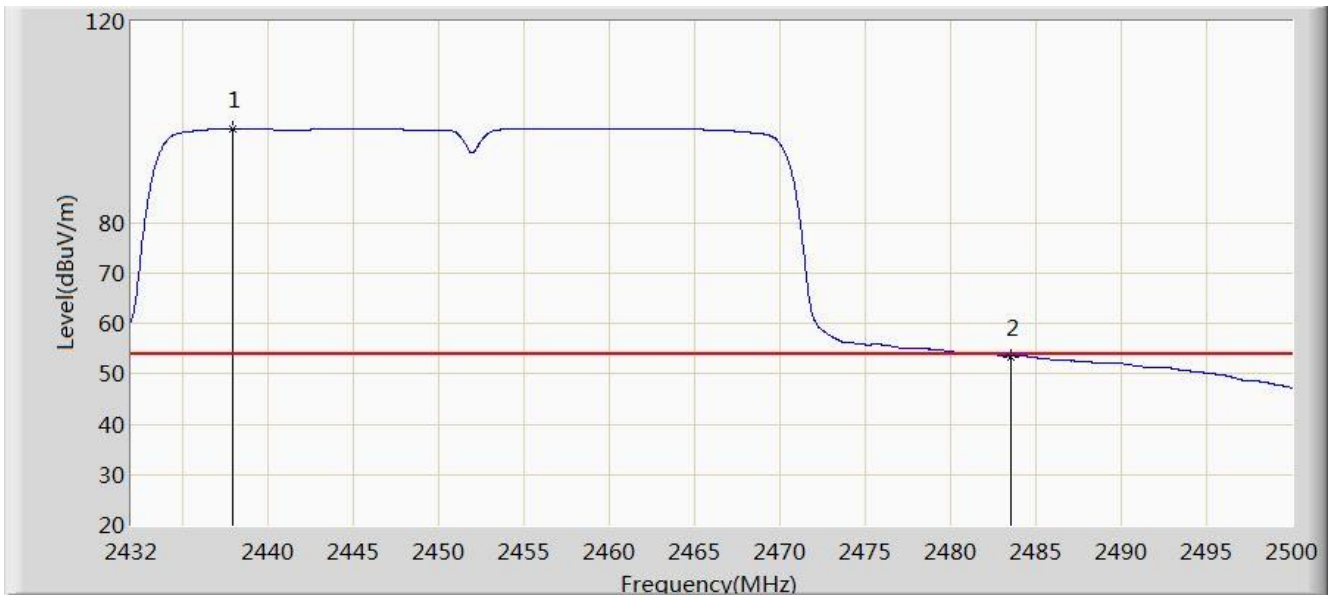


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2444.716	109.312	76.575	N/A	N/A	32.736	PK
2			2483.500	67.439	34.789	-6.561	74.000	32.651	PK
3			2487.964	70.529	37.914	-3.471	74.000	32.615	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2020/09/09 - 11:45
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GPON ONT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at channel 2452MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2437.950	98.728	65.979	N/A	N/A	32.750	AV
2			2483.500	53.472	20.822	-0.528	54.000	32.651	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

6.8. AC Conducted Emissions Measurement

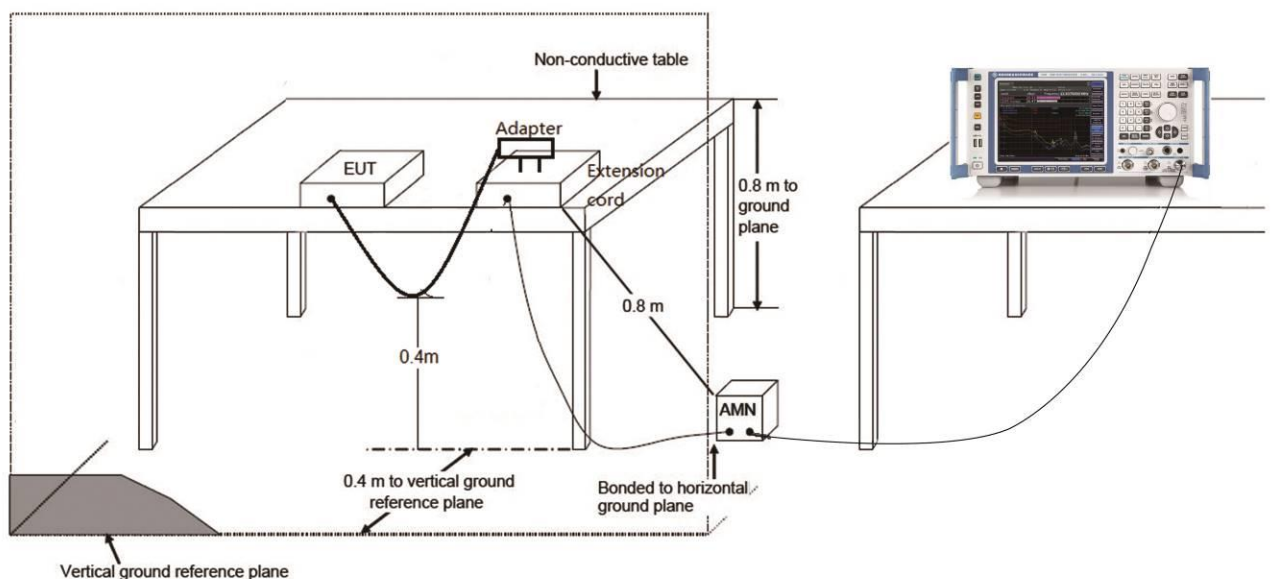
6.8.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dB μ V)	AV (dB μ V)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

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

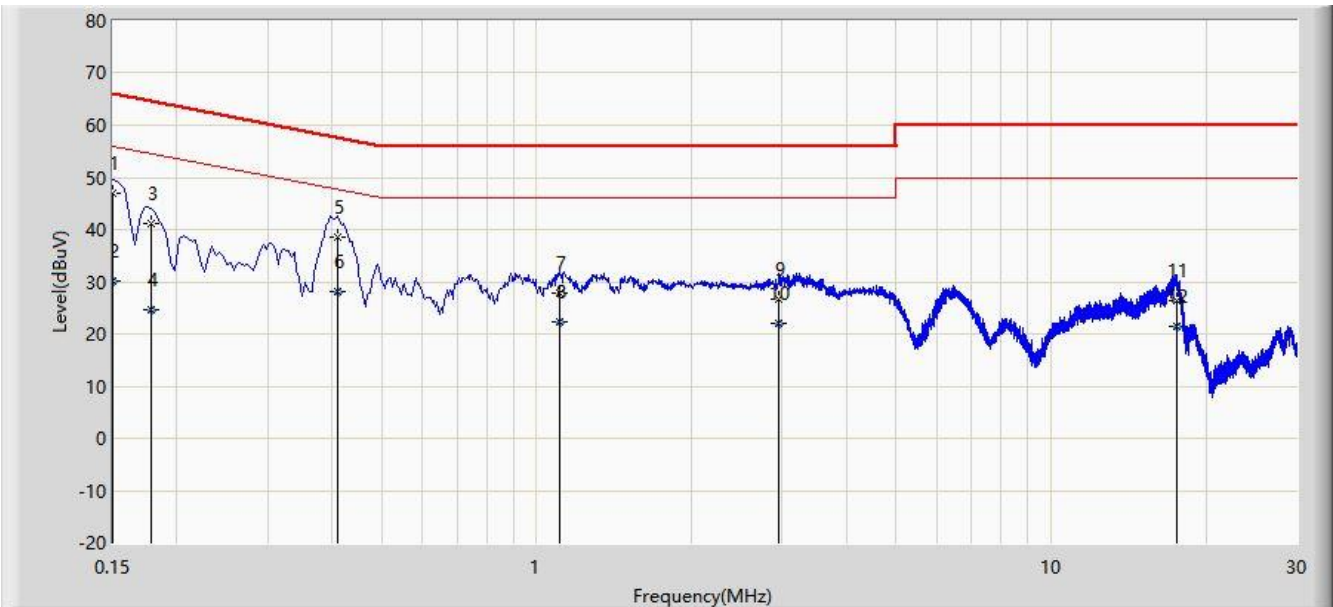
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

6.8.2. Test Setup



6.8.3.Test Result

Site: WZ-SR2	Time: 2021/01/13 - 15:41
Limit: FCC_Part15.207_CE_AC Power	Engineer: Hyde Yu
Probe: ENV216_101683_Filter On	Polarity: Line
EUT: GPON ONT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at channel 2412MHz	

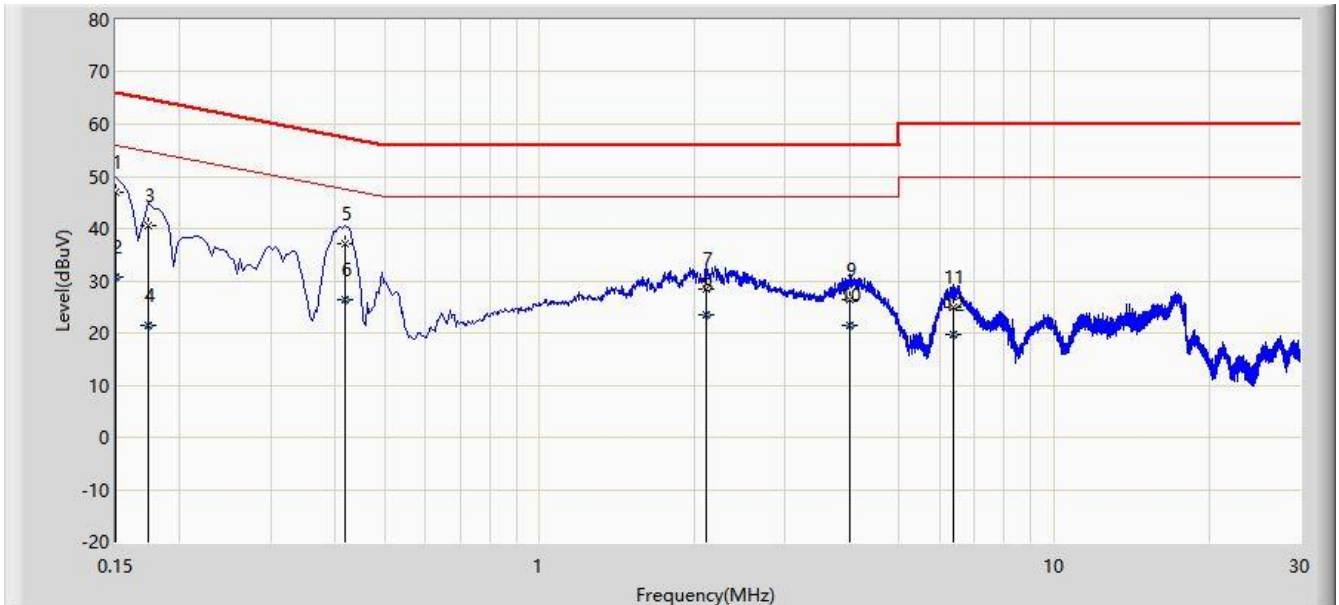


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV)	Factor (dB)	Type
1		*	0.150	46.828	37.219	-19.172	66.000	9.609	QP
2			0.150	30.246	20.637	-25.754	56.000	9.609	AV
3			0.178	41.138	31.510	-23.440	64.578	9.628	QP
4			0.178	24.726	15.098	-29.853	54.578	9.628	AV
5			0.410	38.408	28.726	-19.241	57.648	9.681	QP
6			0.410	28.177	18.496	-19.471	47.648	9.681	AV
7			1.110	27.879	18.129	-28.121	56.000	9.750	QP
8			1.110	22.242	12.492	-23.758	46.000	9.750	AV
9			2.954	26.596	16.804	-29.404	56.000	9.792	QP
10			2.954	21.917	12.125	-24.083	46.000	9.792	AV
11			17.546	26.294	16.007	-33.706	60.000	10.287	QP
12			17.546	21.345	11.058	-28.655	50.000	10.287	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Site: WZ-SR2	Time: 2021/01/13 - 15:47
Limit: FCC_Part15.207_CE_AC Power	Engineer: Hyde Yu
Probe: ENV216_101683_Filter On	Polarity: Neutral
EUT: GPON ONT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at channel 2412MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV)	Factor (dB)	Type
1		*	0.150	46.958	37.359	-19.042	66.000	9.599	QP
2			0.150	30.865	21.266	-25.135	56.000	9.599	AV
3			0.174	40.524	30.909	-24.243	64.767	9.615	QP
4			0.174	21.582	11.967	-33.186	54.767	9.615	AV
5			0.418	36.993	27.321	-20.494	57.488	9.672	QP
6			0.418	26.275	16.603	-21.213	47.488	9.672	AV
7			2.114	28.282	18.520	-27.718	56.000	9.762	QP
8			2.114	23.337	13.574	-22.663	46.000	9.762	AV
9			3.998	26.379	16.559	-29.621	56.000	9.820	QP
10			3.998	21.467	11.647	-24.533	46.000	9.820	AV
11			6.374	24.918	14.997	-35.082	60.000	9.921	QP
12			6.374	19.842	9.921	-30.158	50.000	9.921	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

7. CONCLUSION

The data collected relate only the item(s) tested and show that the device is compliance with Part 15C of the FCC rules.

The End

Appendix A - Test Setup Photograph

Refer to “2009RSU002-UT” file.

Appendix B - EUT Photograph

Refer to "2009RSU002-UE" file.