



FCC/IC TEST REPORT

According to

CFR47 §15.247 & RSS-247, Issue 2

Applicant	:	Amcrest Technologies LLC
Address	:	16727 Park Row Dr.Houston, TX 77084
Manufacturer	:	Zhejiang Dahua Vision Technology Co., Ltd.
Address	:	No.1199, Bin'an road, Binjiang District, Hangzhou,P.R.China.
Equipment	:	960P/1.3MP Fixed Wireless IP Camera
Model No.	:	IPM-HX1B ,IPM-HX1W
FCC ID	:	ZZ2AMC016
IC	:	21923-AMC016
Test Period	:	Jul.18,2017~ Jul.31, 2017

- The test result refers exclusively to the test presented test model / sample.
- Without written approval of **Cerpass Technology Corporation Test Laboratory**, the test report shall not be reproduced except in full.
- The test report must not be used by the clients to claim product certification approval by any agency of the Government.

I HEREBY CERTIFY THAT :

The measurements shown in this test report were made in accordance with the procedures given in **ANSI C63.10 – 2013&RSS-247, Issue 2&RSS-Gen&FCC Part15.247** and the energy emitted by this equipment was **passed**.

Approved by:

Mark Liao / Assistant Manager

Laboratory Accreditation:

<input checked="" type="checkbox"/>	Cerpass Technology Corporation Test Laboratory
TAF LAB Code:	1439



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History of this Test Report

Report No.	Version	Issue Date	Description
SEFI1708003	Rev 01	Aug.07, 2017	Original.



1. Report of Measurements and Examinations

Performed Test Item	Normative References	Test Performed	Deviation	Result
Conducted Emission	FCC CFR Title 47 Part 15 Subpart C: 2016 Section 15.207	Yes	N/A	Pass
Radiated Emission	FCC CFR Title 47 Part 15 Subpart C: 2016 Section 15.209 RSS-Gen Issue 4 November 2014 Section 6.13	Yes	No	Pass
RF Antenna Conducted Spurious	FCC CFR Title 47 Part 15 Subpart C: 2016 Section 15.247(d) RSS-247 Issue 2 February 2017 Section 5.5	Yes	No	Pass
Radiated Emission Band Edge	FCC CFR Title 47 Part 15 Subpart C: 2016 15.247(d) RSS-247 Issue 2 February 2017 Section 5.5	Yes	No	Pass
Operation Frequency Range of 20dB Bandwidth	FCC CFR Title 47 Part 15 Subpart C: 2016 15.215(c)	Yes	No	Pass
Occupied Bandwidth	FCC CFR Title 47 Part 15 Subpart C: 2016 Section 15.247(a)(2) RSS-247 Issue 2 February 2017 Section 5.2(a)	Yes	No	Pass
Output Power	FCC CFR Title 47 Part 15 Subpart C: 2016 Section 15.247(b)(3) RSS-247 Issue 2 February 2017 Section 5.4(d)	Yes	No	Pass
Power Spectral Density	FCC CFR Title 47 Part 15 Subpart C: 2016 Section 15.247(e) RSS-247 Issue 2 February 2017 Section 5.2(b)	Yes	No	Pass



2. General Info

2.1 Description of EUT

Product name	960P/1.3MP Fixed Wireless IP Camera	
Model No.	IPM-HX1B ,IPM-HX1W	
Power supply	ED1-050100UA	
	Input:	100~240V AC 50/60Hz 0.2A
	Output:	5.0V---1.0A



2.2 Description of wireless module

WLAN	WIFI-2-R04USA5
Spreading	802.11b: CCK, DQPSK, DBPSK 802.11g: 64 QAM, 16 QAM, QPSK, BPSK 802.11n: BPSK, QPSK, 16-QAM, 64-QAM
Frequency Range	802.11b/g/n(20MHz): 2412-2462MHz 802.11n(40MHz): 2422-2452MHz
Number of Channels	802.11b/g/n (20MHz): 11 802.11n (40MHz): 7
Data Rate	802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0~MCS7

Note: For more details, please refer to the EUT User manual.

2.3 Description of Antenna

Antenna	Peak Gain
PCB Antenna	6.12dBi for 2.40~2.50GHz band



2.4 Carrier Frequency of Channels

802.11b, 802.11g, 802.11n(20MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
01	2412	08	2447
02	2417	09	2452
03	2422	10	2457
04	2427	11	2462
05	2432		
06	2437		
07	2442	---	---

802.11n(40MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
01	---	08	2447
02	---	09	2452
03	2422	---	---
04	2427	---	---
05	2432	---	---
06	2437	---	---
07	2442	---	---

2.5 The Worst Case Configuration

Data rate Configuration:

Modulation Mode	Worst Data Rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(HT20)	MCS0
802.11n(HT40)	MCS0

Note: Power output test was verified over all data rates of each mode, and then choose the maximum power output for final test of each channel shown as the table.

2.6 EUT Exercise Software

1	Turn on the power of equipment.
2	Run 'SecureCRTPortable', input RF test command and set the test mode and channel, then press Transmit to start continue transmit.

**2.7 Power Parameter Value of the test software**

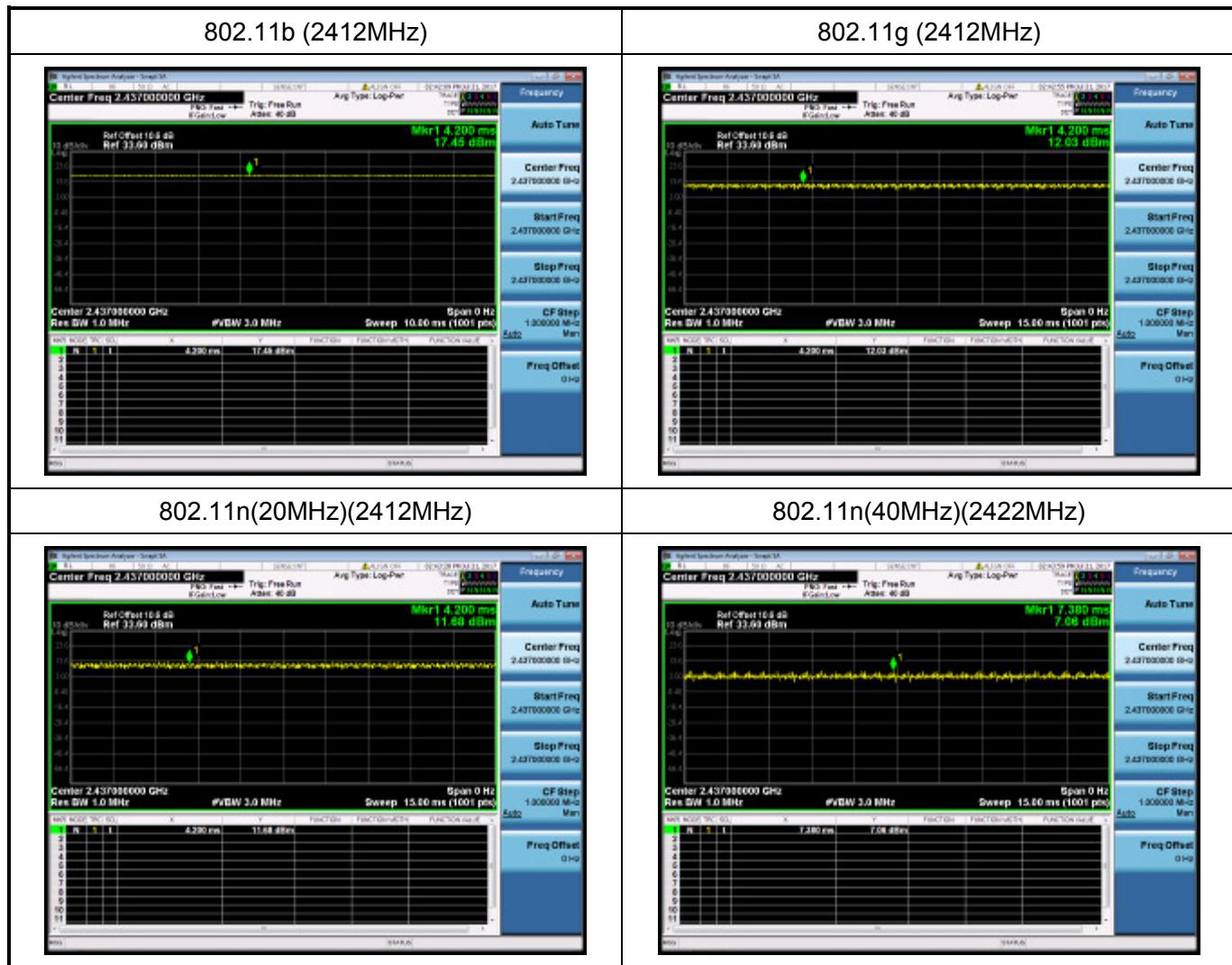
Mode	Frequency (MHz)	Power Setting
802.11b	2412	55
	2437	63
	2462	45
802.11g	2412	58
	2437	63
	2462	50
802.11n(20MHz)	2412	58
	2437	63
	2462	50
802.11n(40MHz)	2422	56
	2437	63
	2452	50



2.8 Duty cycle

Test Item	Duty cycle
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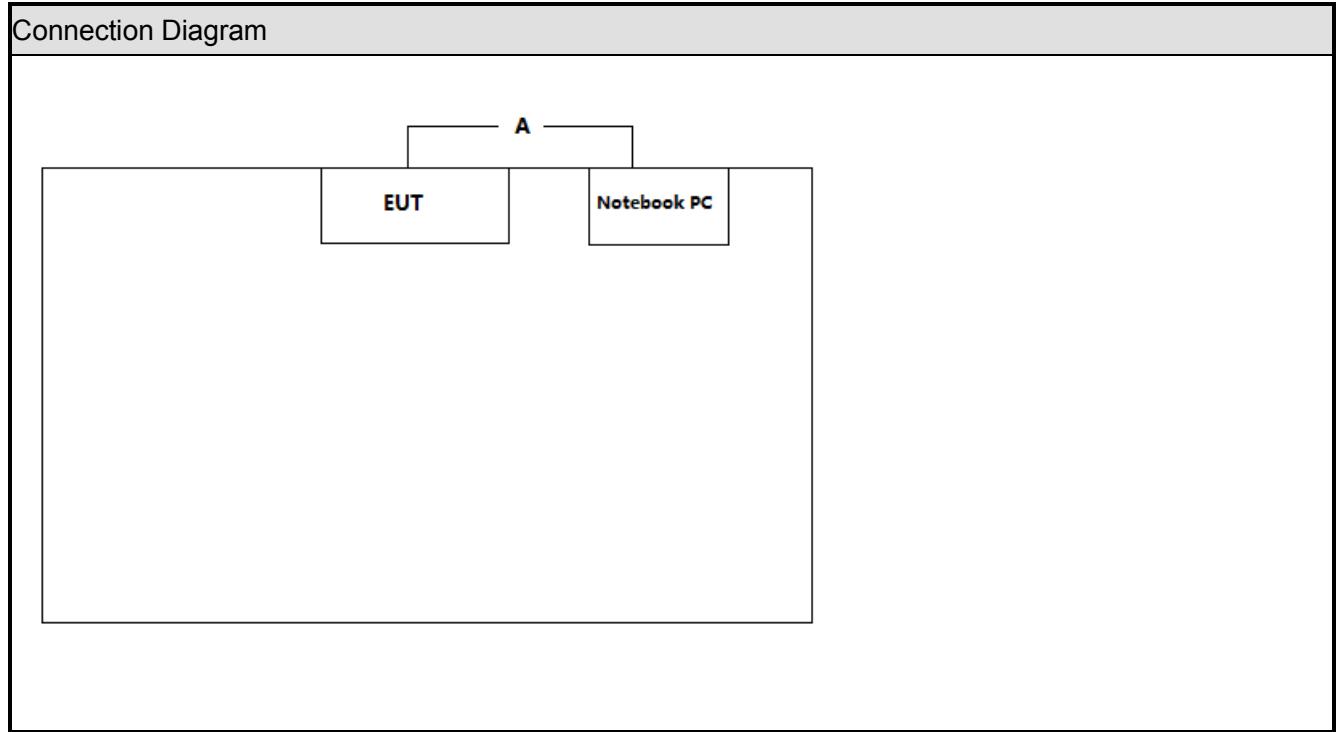
Mode	Frequency (MHz)	Measurement (%)
802.11b	2437	100
802.11g	2437	100
802.11n(20MHz)	2437	100
802.11n(40MHz)	2437	100





2.9 Support equipment

Product	Manufacturer	Model No.	Serial No.	Power Cord
Notebook PC	DELL	Inspiron 3543	N/A	N/A



Signal Cable Type	Signal cable Description
A	USB Cable



3. General Information of Test Site

3.1 Information of Test Site

Test Site :	Cerpass Technology Corporation Test Laboratory Location: No.10 Lane2 Lianfu Street Luzhu District, Taoyuan City Taiwan ROC <u>Tel:+886-3-3226-888</u> <u>Fax:+886-3-3226-881</u>
FCC Registration Number :	TW1439
IC Registration Number :	4934B-1
VCCI	T-2205 for Telecommunication Test C-4663 for Conducted emission test R-4399, R-4218 for Radiated emission test G-812, G-813 for radiated disturbance above 1GHz



3.2 Measuring Equipment

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date.
Test Receiver	R&S	ESCI	100565	2017.03.26	2018.03.25
AMN	R&S	ESH2-Z5	100182	2016.09.06	2017.09.05
Two-Line V-Network	R&S	ENV216	100325	/	/
Pulse Limiter	R&S	ESH3-Z2	100529	2017.03.26	2018.03.25
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-004	2017.03.29	2018.03.28
EZ-EMC	Fala	Ver CT3A1	N/A	N/A	N/A

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date.
EMI Test Receiver	R&S	ESCI	101183	2017.03.26	2018.03.25
Preamplifier	songyi	EM330	60618	2017.03.26	2018.03.25
Preamplifier	Agilent	8449B	3008A02342	2017.03.26	2018.03.25
Bilog Antenna	Sunol Science	JB1	A072414-1	2017.04.16	2018.04.15
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	9120D-618	2017.04.16	2018.04.15
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	9170-347	2017.04.16	2018.04.15
Preamplifier	COM-POWER	PA-840	711885	2017.03.26	2018.03.25
Spectrum Analyzer	R&S	FSP40	100324	2017.03.26	2018.03.25
Spectrum Analyzer	KEYSIGHT	N9010A	MY54200207	2017.03.17	2018.03.16
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-002	2017.03.29	2018.03.28
EZ-EMC	Fala	Ver CT3A1	N/A	N/A	N/A



3.3 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ($k=2$)).

Measurement Item	Measurement Frequency	Polarization	Uncertainty
Conducted Emission	9 kHz ~ 30 MHz	Line / Neutral	± 2.9076 dB
Radiated Emission	9 kHz ~ 40,000 MHz	Vertical / Horizontal	± 0.948 dB
Spurious Emission (Conducted)	-	-	± 4.011 dB
Maximum Peak and Average Output Power	-	-	± 0.322 dB
Power Spectral Density	-	-	± 0.322 dB
Bandwidth	-	-	74.224Hz



4. AC Conducted Emission Measurement

4.1 Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 120 VAC power and return leads of the EUT according to the methods defined in ANSI C63.10-2013 Section 6.2. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 6.2.2. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

*Decreases with the logarithm of the frequency.

4.2 Test Standard

Tested according to ANSI C63.10: 2013 Section 6.2 for compliance to FCC 47CFR 15.247 Part15.207 (a) requirements.

4.3 Test Procedures

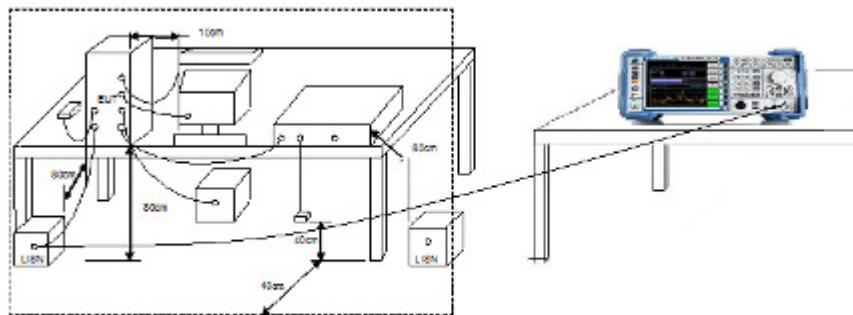
The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs) Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.



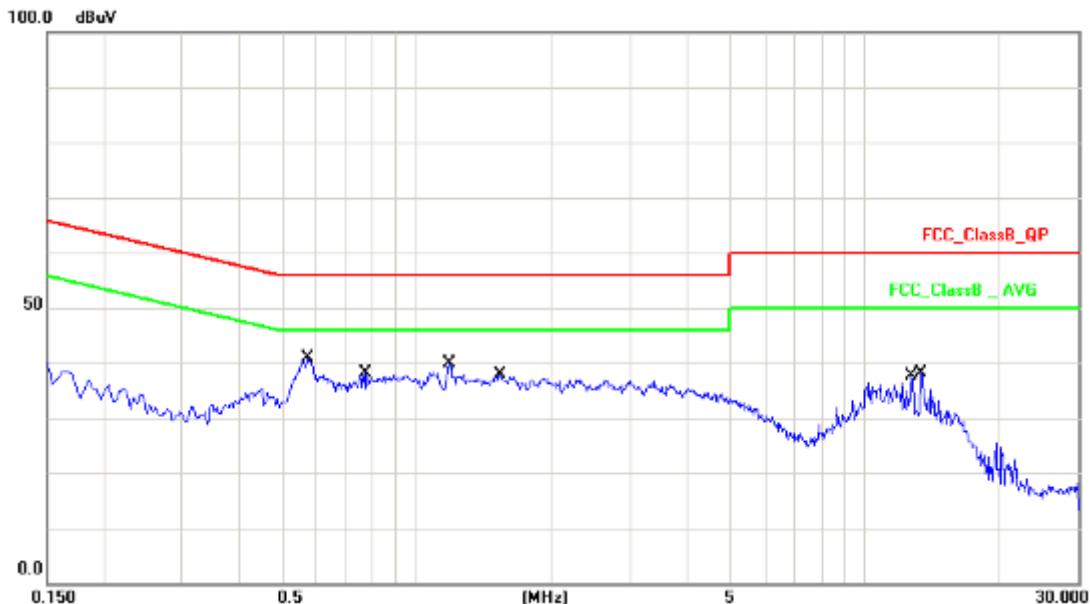
4.4 Test Setup Layout





4.5 Test Result

Test Mode :	Mode 1: Normal Operation with WIFI on		
AC Power :	AC 120V/60Hz	Phase:	LINE
Temperature :	26°C	Humidity:	60%
Pressure(mbar) :	1002	Date:	2017/07/20

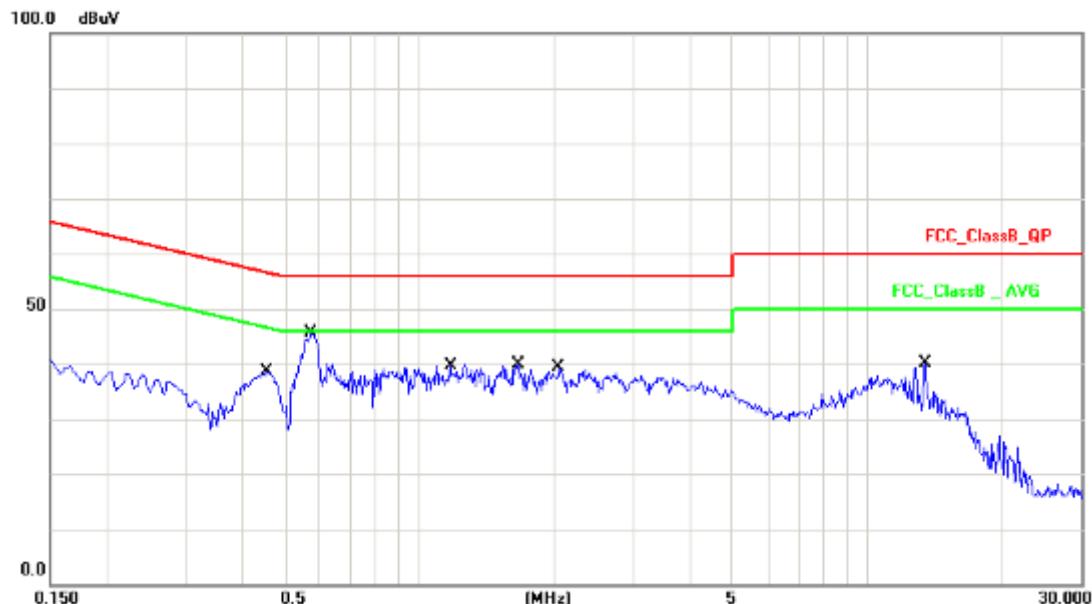


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.5740	10.16	28.02	38.18	56.00	-17.82	QP
2	0.5740	10.16	21.91	32.07	46.00	-13.93	AVG
3	0.7740	10.14	23.00	33.14	56.00	-22.86	QP
4	0.7740	10.14	12.80	22.94	46.00	-23.06	AVG
5	1.1860	10.16	26.53	36.69	56.00	-19.31	QP
6	1.1860	10.16	15.79	25.95	46.00	-20.05	AVG
7	1.5420	10.17	24.14	34.31	56.00	-21.69	QP
8	1.5420	10.17	14.72	24.89	46.00	-21.11	AVG
9	12.7460	10.40	26.02	36.42	60.00	-23.58	QP
10	12.7460	10.40	23.65	34.05	50.00	-15.95	AVG
11	13.3580	10.43	26.48	36.91	60.00	-23.09	QP
12	13.3580	10.43	23.76	34.19	50.00	-15.81	AVG

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 1: Normal Operation with WIFI on		
AC Power :	AC 120V/60Hz	Phase :	NEUTRAL
Temperature :	26°C	Humidity :	60%
Pressure(mbar) :	1002	Date:	2017/07/20



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.4580	10.15	24.55	34.70	56.73	-22.03	QP
2	0.4580	10.15	12.92	23.07	46.73	-23.66	AVG
3	0.5740	10.15	33.05	43.20	56.00	-12.80	QP
4	0.5740	10.15	23.40	33.55	46.00	-12.45	AVG
5	1.1780	10.18	24.04	34.22	56.00	-21.78	QP
6	1.1780	10.18	13.63	23.81	46.00	-22.19	AVG
7	1.6660	10.18	24.61	34.79	56.00	-21.21	QP
8	1.6660	10.18	15.84	26.02	46.00	-19.98	AVG
9	2.0460	10.18	23.30	33.48	56.00	-22.52	QP
10	2.0460	10.18	14.50	24.68	46.00	-21.32	AVG
11	13.4180	10.44	25.69	36.13	60.00	-23.87	QP
12	13.4180	10.44	22.89	33.33	50.00	-16.67	AVG

Note: Measurement Level = Reading Level + Correct Factor



5. Radiated Emission Measurement

5.1 Test Limit

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter measurement is based on the maximum conducted output power, the attenuation required under this paragraph shall be 30dB instead of 20dB. In addition, radiated emissions which fall in section 15.205(a) the restricted bands must also comply with the radiated emission limit specified in section 15.209(a).

FCC Part 15 Subpart C Paragraph 15.209		
FREQUENCIES (MHz)	FIELD STRENGTH (micro volts/meter)	MEASUREMENT DISTANCE (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

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

Note 2: Distance refers to the distance in meters between the measuring instrument Antenna and the closed point of any part of the device or system.

Note 3: E field strength (dBuV/m) = 20 log E field strength (uV/m)

Note 4: **Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§15.231 and 15.241.

5.2 Test Standard

KDB 558074 D01v04 - Section 12.2.3 (quasi-peak measurements)

KDB 558074 D01v04 - Section 12.2.4 (peak power measurements)

KDB 558074 D01v04- Section 12.2.5 (average power measurements)



5.3 Test Procedures

Quasi-Peak Field Strength Measurements:

The specifications for measurements using the CISPR quasi-peak detector can be found in Publication 16 of the International Special Committee on Radio Frequency Interference (CISPR) of the International Electrotechnical Commission.

As an alternative to CISPR quasi-peak measurement, compliance can be demonstrated to the applicable emission limits using a peak detector.

Peak Field Strength Measurements:

Analyzer center frequency was set to the frequency of the radiated spurious emission of interest

1. RBW=As specified in Table 1
2. VBW=3×RBW
3. Detector=Peak
4. Trace mode=Max hold
5. Sweep time=Auto couple
6. Allow the trace to stabilize

Table 1-RBW as a function of frequency

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

AVE Field Strength Measurements:

Analyzer center frequency was set to the frequency of the radiated spurious emission of interest

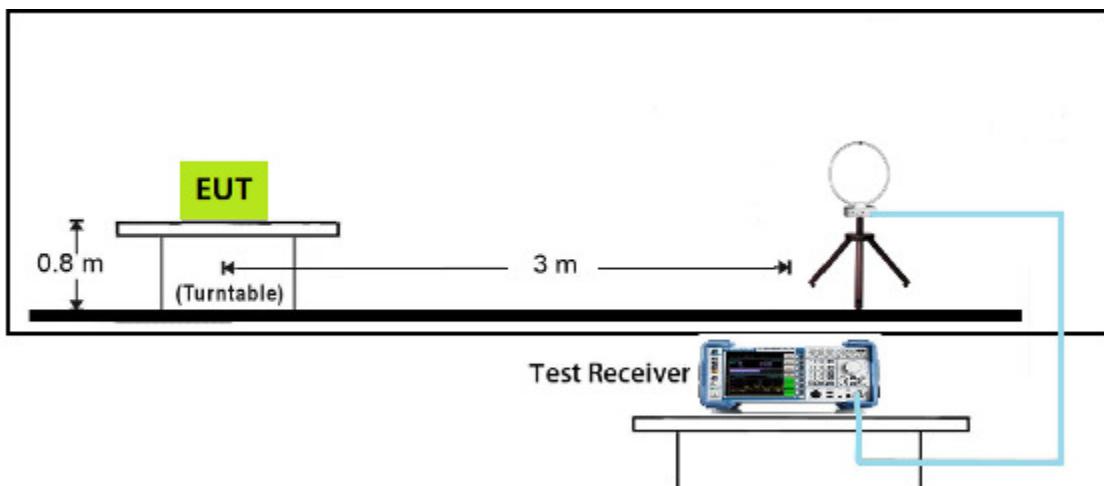
1. RBW= 1MHz
2. VBW≥1/T
3. Detector=Peak
4. Trace mode=Max hold
5. Sweep time=Auto couple
6. Allow max hold to run for at least 50 times(1/duty cycle) trace

Do 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

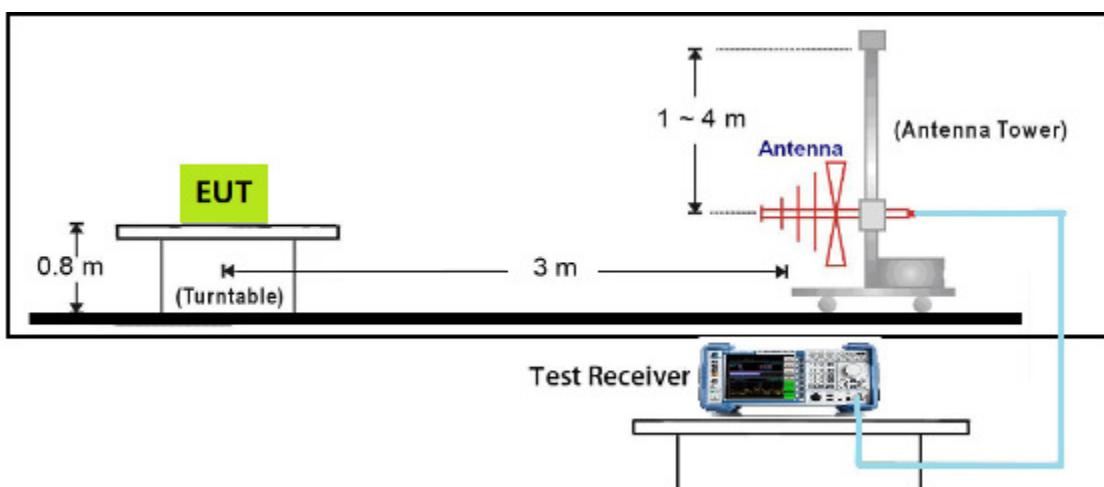


5.4 Test Setup Layout

9kHz~30MHz Test Setup

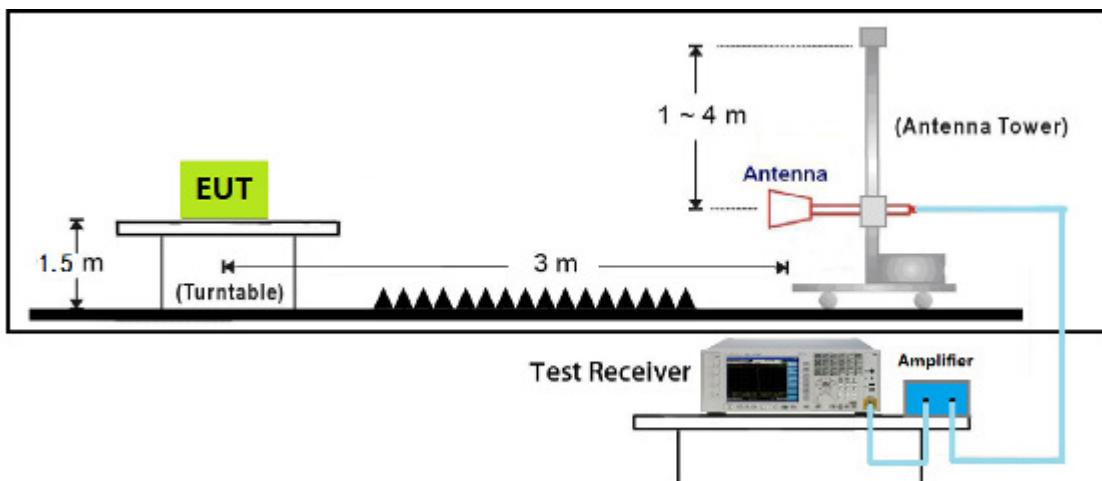


30MHz~1GHz Test Setup

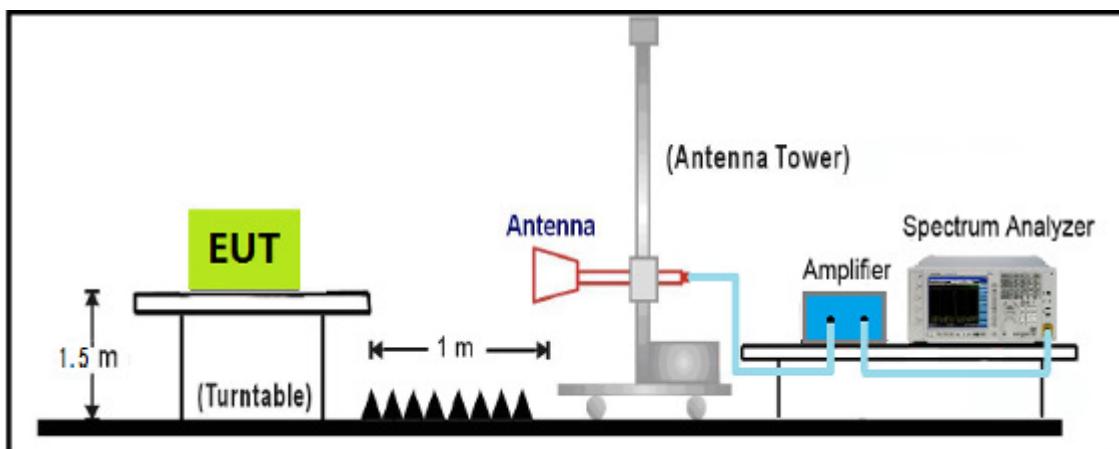




1GHz~18GHz Test Setup



18GHz~40GHz Test Setup

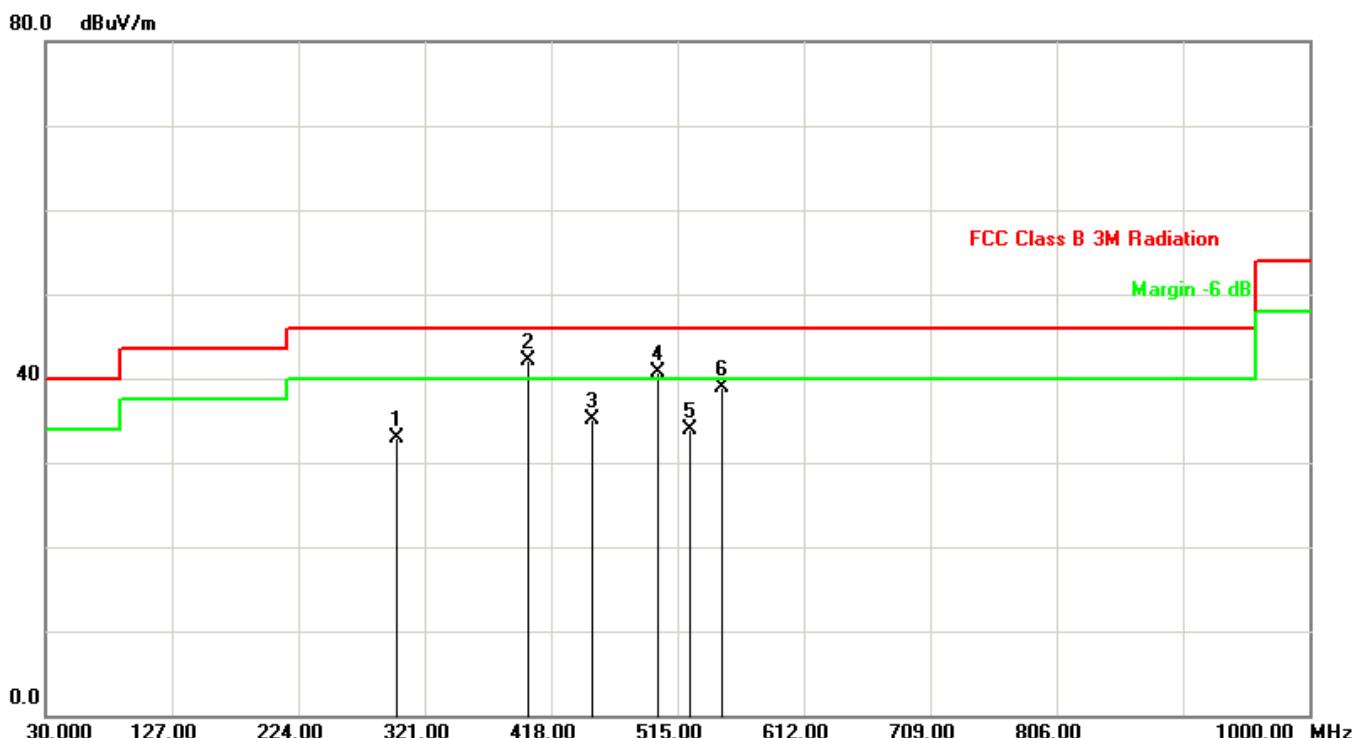




5.5 Test Result

The worst case of Radiated Emission below 1GHz:

Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: CBL6112D (30-1000MHz)	Polarity: Horizontal
EUT: 960P/1.3MP Fixed Wireless IP Camera	Power: AC 120V/60Hz
Note: Mode1: Transmit at channel 2437MHz by 802.11b	



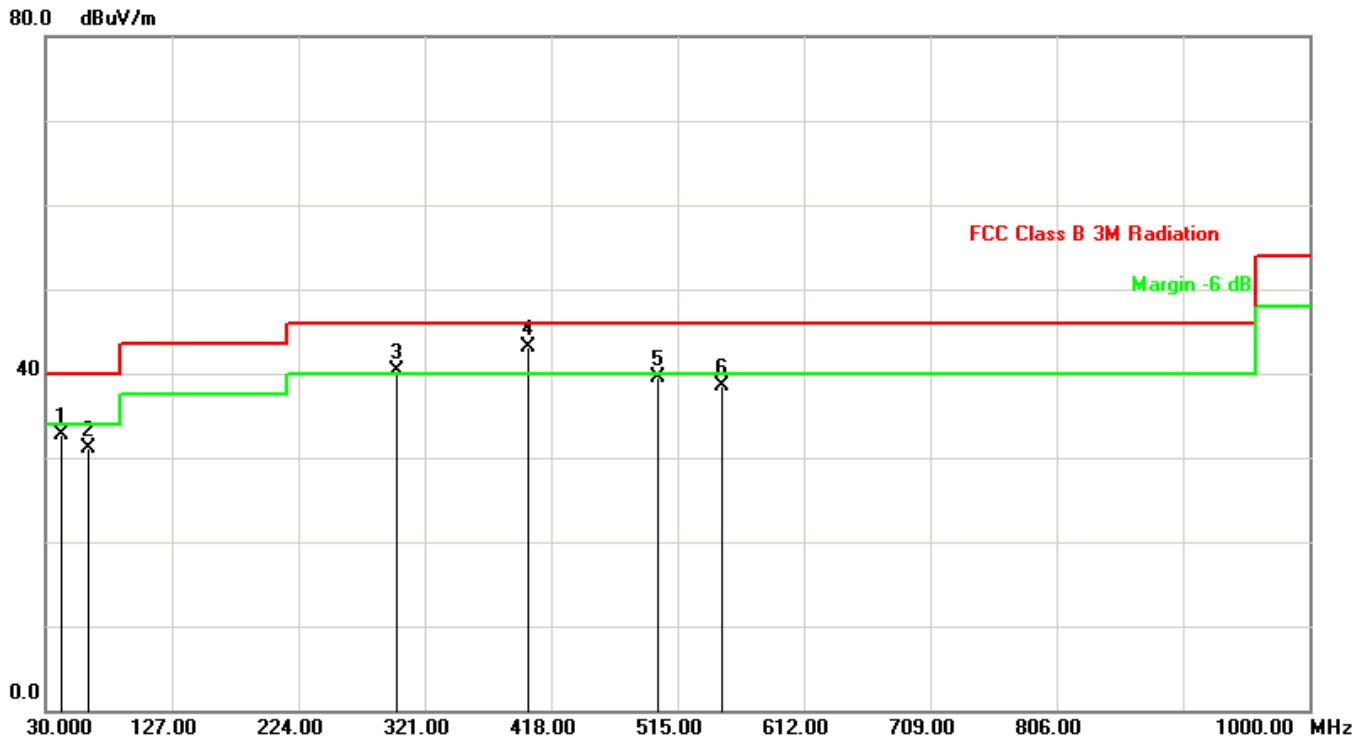
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	299.6600	-8.29	41.22	32.93	46.00	-13.07	QP
2	400.5400	-5.67	47.75	42.08	46.00	-3.92	QP
3	450.0099	-6.47	41.51	35.04	46.00	-10.96	QP
4	500.4499	-4.85	45.54	40.69	46.00	-5.31	QP
5	524.7000	-4.34	38.31	33.97	46.00	-12.03	QP
6	549.9198	-3.67	42.49	38.82	46.00	-7.18	QP

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

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



Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: CBL6112D (30-1000MHz)	Polarity: Vertical
EUT: 960P/1.3MP Fixed Wireless IP Camera	Power: AC 120V/60Hz
Note: Mode1: Transmit at channel 2437MHz by 802.11b	



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	42.6099	-7.48	40.18	32.70	40.00	-7.30	QP
2	62.9799	-12.96	44.13	31.17	40.00	-8.83	QP
3	299.6600	-8.29	48.55	40.26	46.00	-5.74	QP
4	400.5400	-5.67	48.76	43.09	46.00	-2.91	QP
5	500.4499	-4.85	44.40	39.55	46.00	-6.45	QP
6	549.9198	-3.67	42.09	38.42	46.00	-7.58	QP

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

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

**Radiated Emission above 1GHz:****Radiated Emission above 1GHz:**

Mode1: Transmit by 802.11b

CH	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	H	4824.0	46.5	-3.9	42.6	54(note3)	-11.4	PK
	H	7236.0	44.7	0.6	45.3	54(note3)	-8.7	PK
	V	4824.0	45.7	-3.9	41.8	54(note3)	-12.2	PK
	V	7236.0	45.8	0.6	46.4	54(note3)	-7.6	PK
6	H	4874.0	47.4	-3.9	43.5	54(note3)	-10.5	PK
	H	7311.0	46.7	0.8	47.5	54(note3)	-6.5	PK
	V	4874.0	44.8	-3.9	40.9	54(note3)	-13.1	PK
	V	7311.0	45.5	0.8	46.3	54(note3)	-7.7	PK
11	H	4924.0	47.4	-3.8	43.6	54(note3)	-10.4	PK
	H	7386.0	45.1	1.0	46.1	54(note3)	-7.9	PK
	V	4924.0	45.8	-3.8	42.0	54(note3)	-12.0	PK
	V	7386.0	45.0	1.0	46.0	54(note3)	-8.0	PK

Note: 1. Measure Level = Reading Level + Factor.

2. The test trace is same as the ambient noise (the test frequency range: 9kHz~30MHz, 18GHz~25GHz), therefore no data appear in the report.
3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.



Mode2: Transmit by 802.11g

CH	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	H	4824.0	45.4	-3.9	41.5	54(note3)	-12.5	PK
	H	7236.0	44.5	0.6	45.1	54(note3)	-8.9	PK
	V	4824.0	45.3	-3.9	41.4	54(note3)	-12.6	PK
	V	7236.0	44.9	0.6	45.5	54(note3)	-8.5	PK
6	H	4874.0	45.5	-3.9	41.6	54(note3)	-12.4	PK
	H	7311.0	44.1	0.8	44.9	54(note3)	-9.1	PK
	V	4874.0	46.5	-3.9	42.6	54(note3)	-11.4	PK
	V	7311.0	44.0	0.8	44.8	54(note3)	-9.2	PK
11	H	4924.0	44.7	-3.8	40.9	54(note3)	-13.1	PK
	H	7386.0	45.5	1.0	46.5	54(note3)	-7.5	PK
	V	4924.0	45.8	-3.8	42.0	54(note3)	-12.0	PK
	V	7386.0	45.7	1.0	46.7	54(note3)	-7.3	PK

Note: 1. Measure Level = Reading Level + Factor.

2. The test trace is same as the ambient noise (the test frequency range: 9kHz~30MHz, 18GHz~25GHz), therefore no data appear in the report.

3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.



Mode3: Transmit by 802.11n(20MHz)

CH	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	H	4824.0	45.8	-3.9	41.9	54(note3)	-12.1	PK
	H	7236.0	45.5	0.6	46.1	54(note3)	-7.9	PK
	V	4824.0	46.2	-3.9	42.3	54(note3)	-11.7	PK
	V	7236.0	45.6	0.6	46.2	54(note3)	-7.8	PK
6	H	4874.0	46.3	-3.9	42.4	54(note3)	-11.6	PK
	H	7311.0	44.8	0.8	45.6	54(note3)	-8.4	PK
	V	4874.0	45.7	-3.9	41.8	54(note3)	-12.2	PK
	V	7311.0	46.4	0.8	47.2	54(note3)	-6.8	PK
11	H	4924.0	46.4	-3.8	42.6	54(note3)	-11.4	PK
	H	7386.0	45.0	1.0	46.0	54(note3)	-8.0	PK
	V	4924.0	45.3	-3.8	41.5	54(note3)	-12.5	PK
	V	7386.0	45.1	1.0	46.1	54(note3)	-7.9	PK

Note: 1. Measure Level = Reading Level + Factor.

2. The test trace is same as the ambient noise (the test frequency range: 9kHz~30MHz, 18GHz~25GHz), therefore no data appear in the report.

3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.



Mode4: Transmit by 802.11n(40MHz)

CH	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
3	H	4844.0	45.2	-3.9	41.3	54(note3)	-12.7	PK
	H	7266.0	44.9	0.7	45.6	54(note3)	-8.4	PK
	V	4844.0	44.8	-3.9	40.9	54(note3)	-13.1	PK
	V	7266.0	45.5	0.7	46.2	54(note3)	-7.8	PK
6	H	4874.0	45.5	-3.9	41.6	54(note3)	-12.4	PK
	H	7311.0	44.9	0.8	45.7	54(note3)	-8.3	PK
	V	4874.0	45.1	-3.9	41.2	54(note3)	-12.8	PK
	V	7311.0	44.9	0.8	45.7	54(note3)	-8.3	PK
9	H	4904.0	44.7	-3.8	40.9	54(note3)	-13.1	PK
	H	7356.0	45.5	0.9	46.4	54(note3)	-7.6	PK
	V	4904.0	46.1	-3.8	42.3	54(note3)	-11.7	PK
	V	7356.0	45.1	0.9	46.0	54(note3)	-8.0	PK

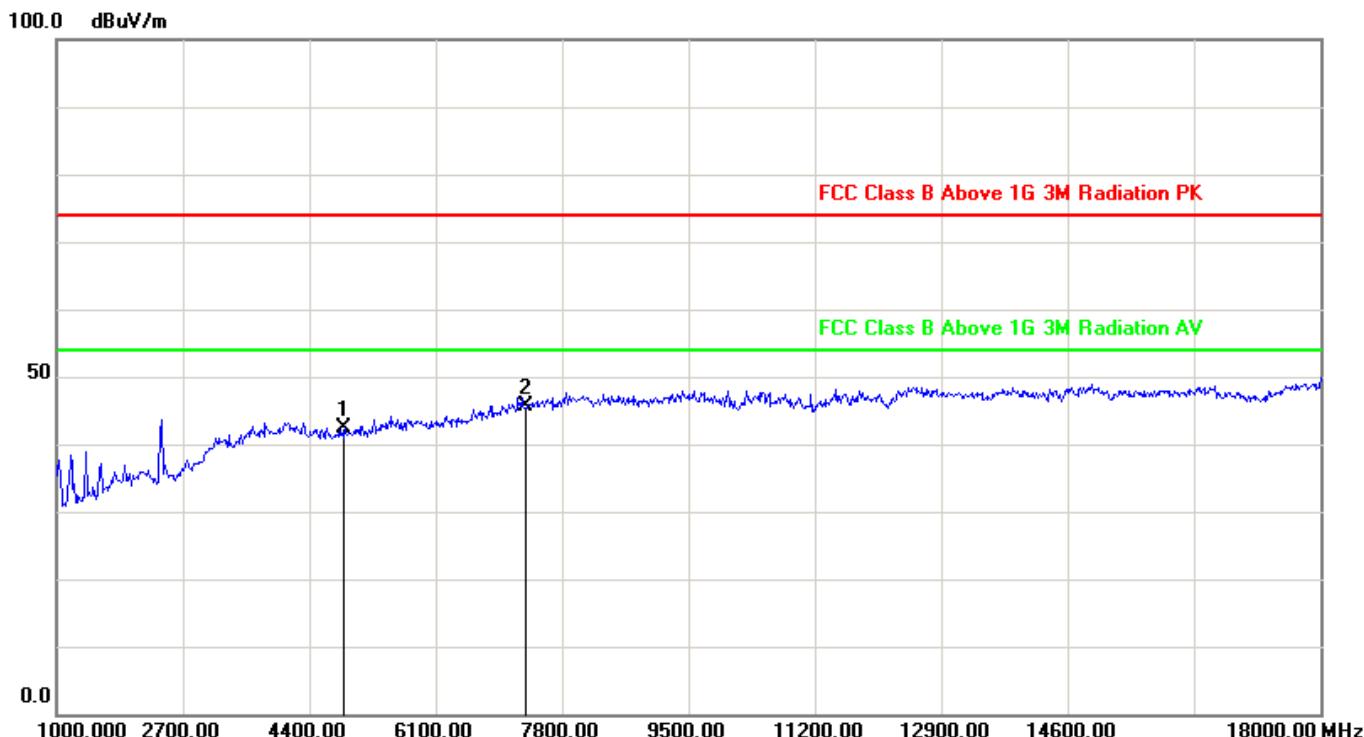
Note: 1. Measure Level = Reading Level + Factor.

2. The test trace is same as the ambient noise (the test frequency range: 9kHz~30MHz, 18GHz~25GHz), therefore no data appear in the report.

3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

**The worst case of Radiated Emission 1~18GHz:**

Site: AC102	Time: 2017/07/18
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT: 960P/1.3MP Fixed Wireless IP Camera	Power: AC 120V/60Hz
Note: Mode: Transmit 802.11b at 2437MHz	



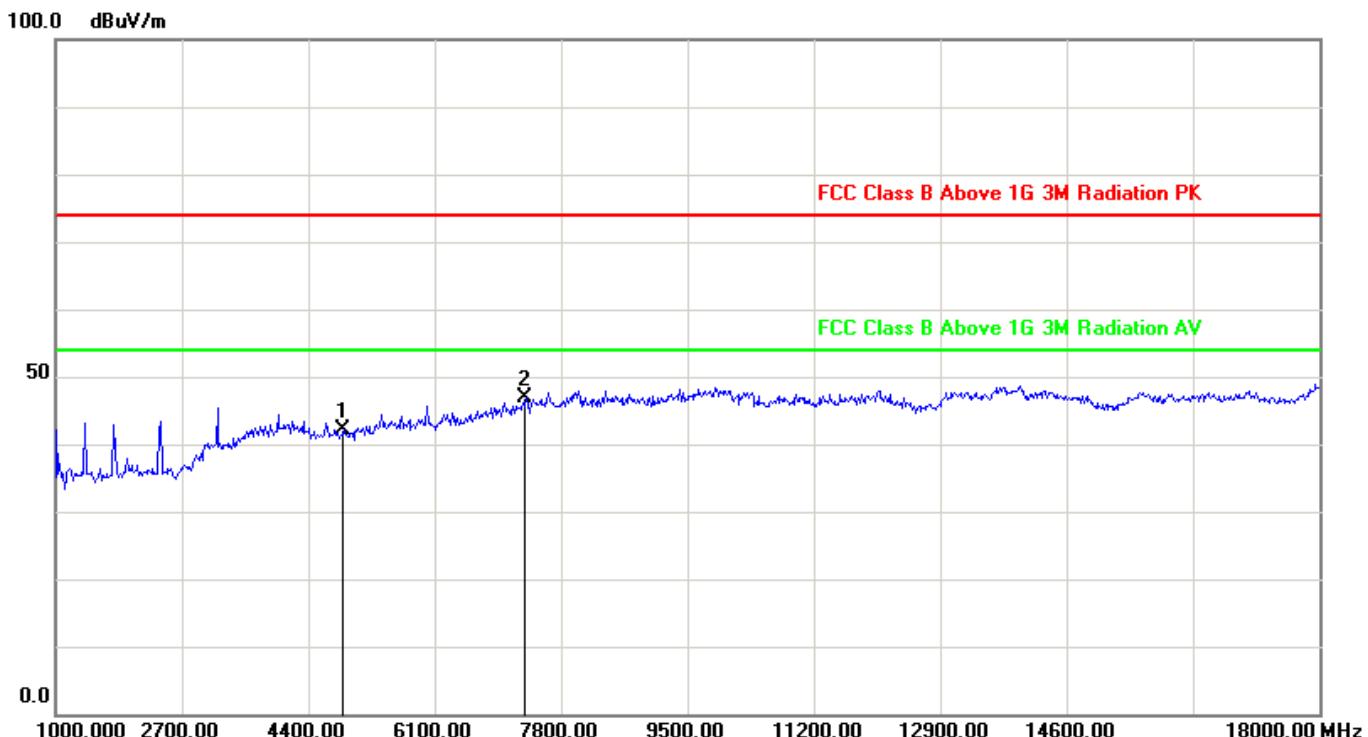
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	4874.0	-3.9	47.4	43.5	54(note3)	-10.5	peak
2	7311.0	0.8	46.7	47.5	54(note3)	-6.5	peak

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or AVG measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor
3. The test trace is same as the ambient noise (the test frequency range: 9kHz~30MHz, 18GHz~40GHz), therefore no data appear in the report.



Site: AC102	Time: 2017/07/18
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT: 960P/1.3MP Fixed Wireless IP Camera	Power: AC 120V/60Hz
Note: Mode: Transmit 802.11b at 2437MHz	



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	4874.0	-3.9	44.8	40.9	54(note3)	-13.1	peak
2	7311.0	0.8	45.5	46.3	54(note3)	-7.7	peak

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or AVG measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor
3. The test trace is same as the ambient noise (the test frequency range: 9kHz~30MHz, 18GHz~40GHz), therefore no data appear in the report.



6. 6dB Bandwidth Measurement

6.1 Test Limit

According to FCC part15.247 - Section (a)(2), the minimum 6dB bandwidth shall be at least 500 kHz.

6.2 Test Standard

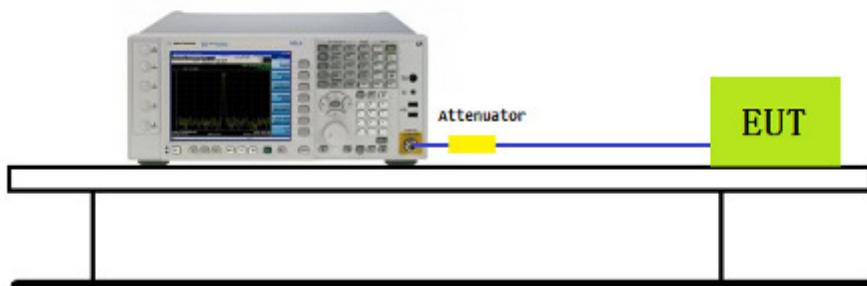
KDB 558074 D01v04– Section 8.2 Option 2

6.3 Test Procedures

1. Set RBW=100KHz
2. $VBW \geq 3 \times RBW$
3. Detector=Peak
4. Trace mode=Max hold
5. Sweep time=Auto couple
6. Allow the trace to stabilize
7. The Spectrum's automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to X = 6. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.

6.4 Test Setup Layout

Spectrum Analyzer

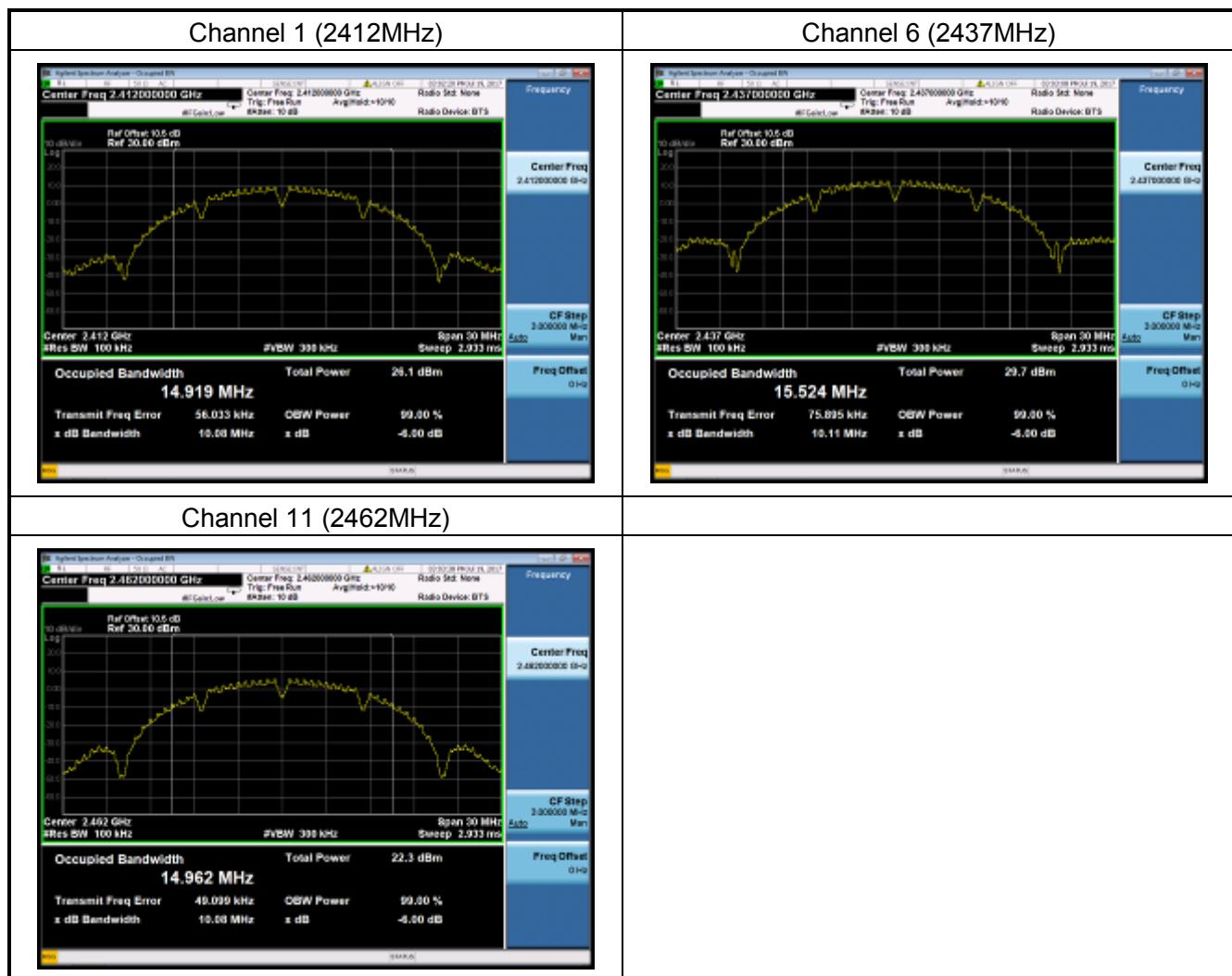




6.5 Test Result

Test Item	Occupied Bandwidth
Test Mode	Mode 1: Transmit by 802.11b

Channel No.	Frequency(MHz)	6dB Bandwidth(MHz)	99% Bandwidth(MHz)
1	2412	10.08	14.919
6	2437	10.11	15.524
11	2462	10.08	14.962





Test Item	Occupied Bandwidth
Test Mode	Mode 2: Transmit by 802.11g

Channel No.	Frequency(MHz)	6dB Bandwidth(MHz)	99% Bandwidth(MHz)
1	2412	16.61	16.569
6	2437	16.61	16.615
11	2462	16.60	16.558





Test Item	Occupied Bandwidth
Test Mode	Mode 3: Transmit by 802.11n(20MHz)

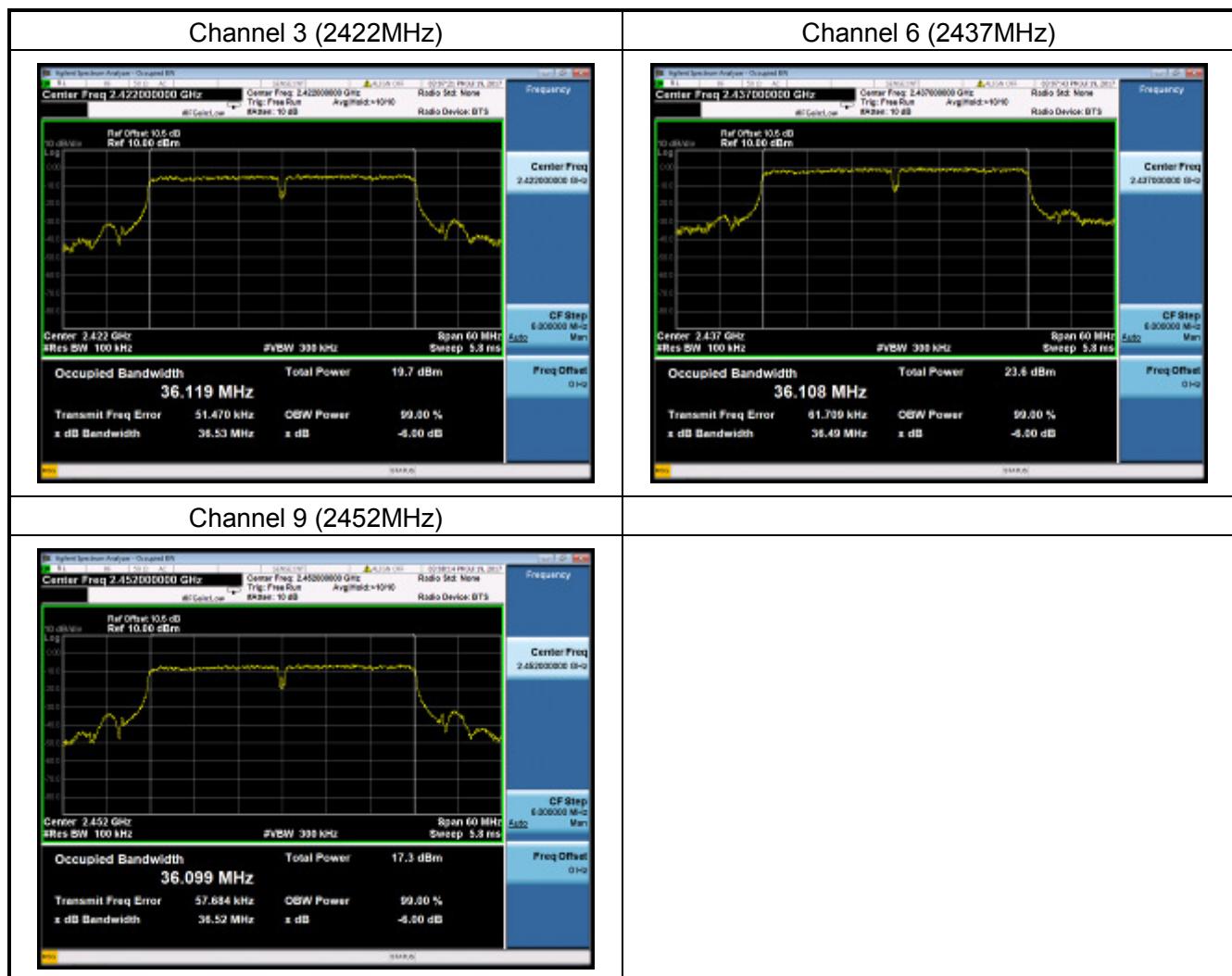
Channel No.	Frequency(MHz)	6dB Bandwidth(MHz)	99% Bandwidth(MHz)
1	2412	17.85	17.805
6	2437	17.86	17.839
11	2462	17.84	17.791





Test Item	Occupied Bandwidth
Test Mode	Mode 4: Transmit by 802.11n(40MHz)

Channel No.	Frequency(MHz)	6dB Bandwidth(MHz)	99% Bandwidth(MHz)
3	2422	36.53	36.119
6	2437	36.49	36.108
9	2452	36.52	36.099





7. Output Power Measurement

7.1 Test Limit

According to FCC part15.247 (b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

Per RSS247 Issue 2 Section 5.4(d), for DTSs employing digital modulation techniques operating in the bands 902-928 MHz and 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1W.

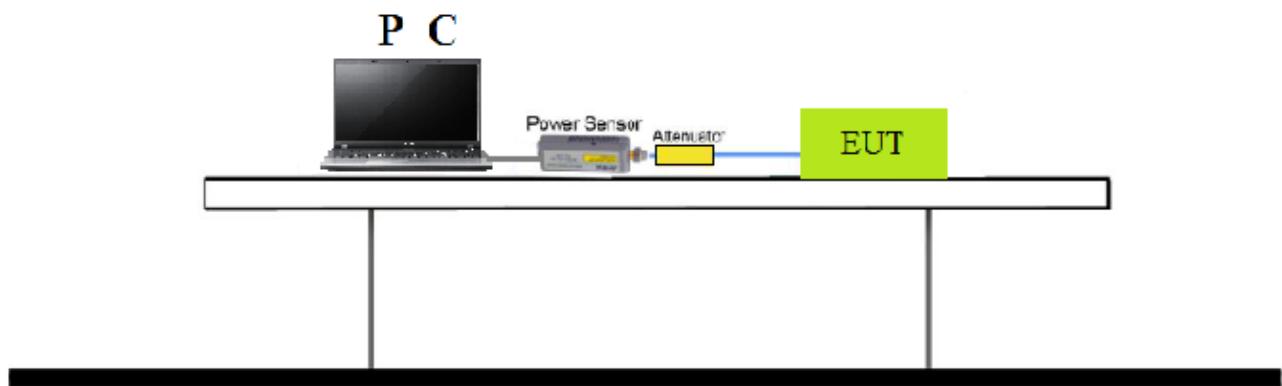
7.2 Test Standard

KDB 558074 D01v04 - Section 9.1.2 PKPM1 Peak Power Method (for signals with BW ≤50MHz)

7.3 Test Procedures

Out power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The pulse sensor employs a VBW = 50MHz so this method was only used for signals whose DTS bandwidth was less than or equal to 50MHz.

7.4 Test Setup Layout





7.5 Test Result

For Peak Power :

Test Mode	Channel No.	Frequency (MHz)	Peak Output Power (dBm)	Limit (dBm)	Result
802.11b	1	2412	23.36	30.	Pass
	6	2437	24.63	30	Pass
	11	2462	18.13	30.	Pass
802.11g	1	2412	24.36	30	Pass
	6	2437	25.26	30.	Pass
	11	2462	22.81	30	Pass
802.11n(20MHz)	1	2412	24.11	30.	Pass
	6	2437	25.16	30	Pass
	11	2462	22.38	30.	Pass
802.11n(40MHz)	3	2422	23.57	30	Pass
	6	2437	25.20	30.	Pass
	9	2452	21.61	30	Pass

For Average Power :

Test Mode	Channel No.	Frequency (MHz)	Average Output Power (dBm)	Limit (dBm)	Result
802.11b	1	2412	16.70	30.	Pass
	6	2437	22.86	30	Pass
	11	2462	15.62	30.	Pass
802.11g	1	2412	14.87	30	Pass
	6	2437	17.93	30.	Pass
	11	2462	12.49	30	Pass
802.11n(20MHz)	1	2412	14.92	30.	Pass
	6	2437	17.97	30	Pass
	11	2462	12.51	30.	Pass
802.11n(40MHz)	3	2422	13.61	30	Pass
	6	2437	17.40	30.	Pass
	9	2452	11.16	30	Pass



8. Power Spectral Density Measurement

8.1 Test Limit

According to FCC part15.247 - Section (e), for digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

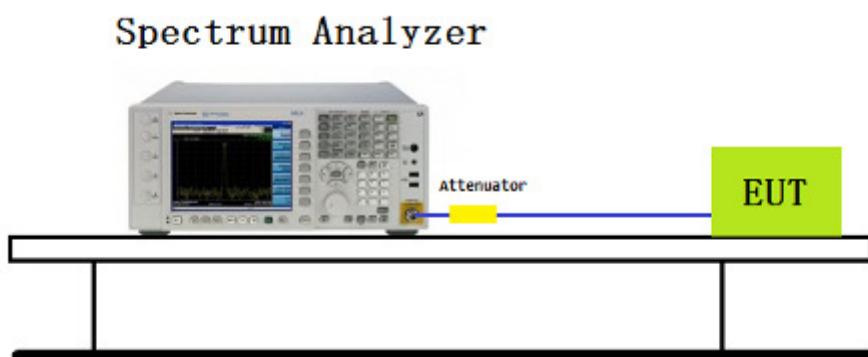
8.2 Test Standard

KDB 558074 D01v04- Section 10.2 Method PKPSD

8.3 Test Procedures

1. Set RBW=3kHz
2. Set RBW=10kHz
3. Span = 1.5 times the DTS channel bandwidth
4. Detector=Peak
5. Trace mode=Max hold
6. Sweep time=Auto couple
7. Allow the trace to stabilize
8. Analyzer was set to the center frequency of the DTS channel under investigation.

8.4 Test Setup Layout



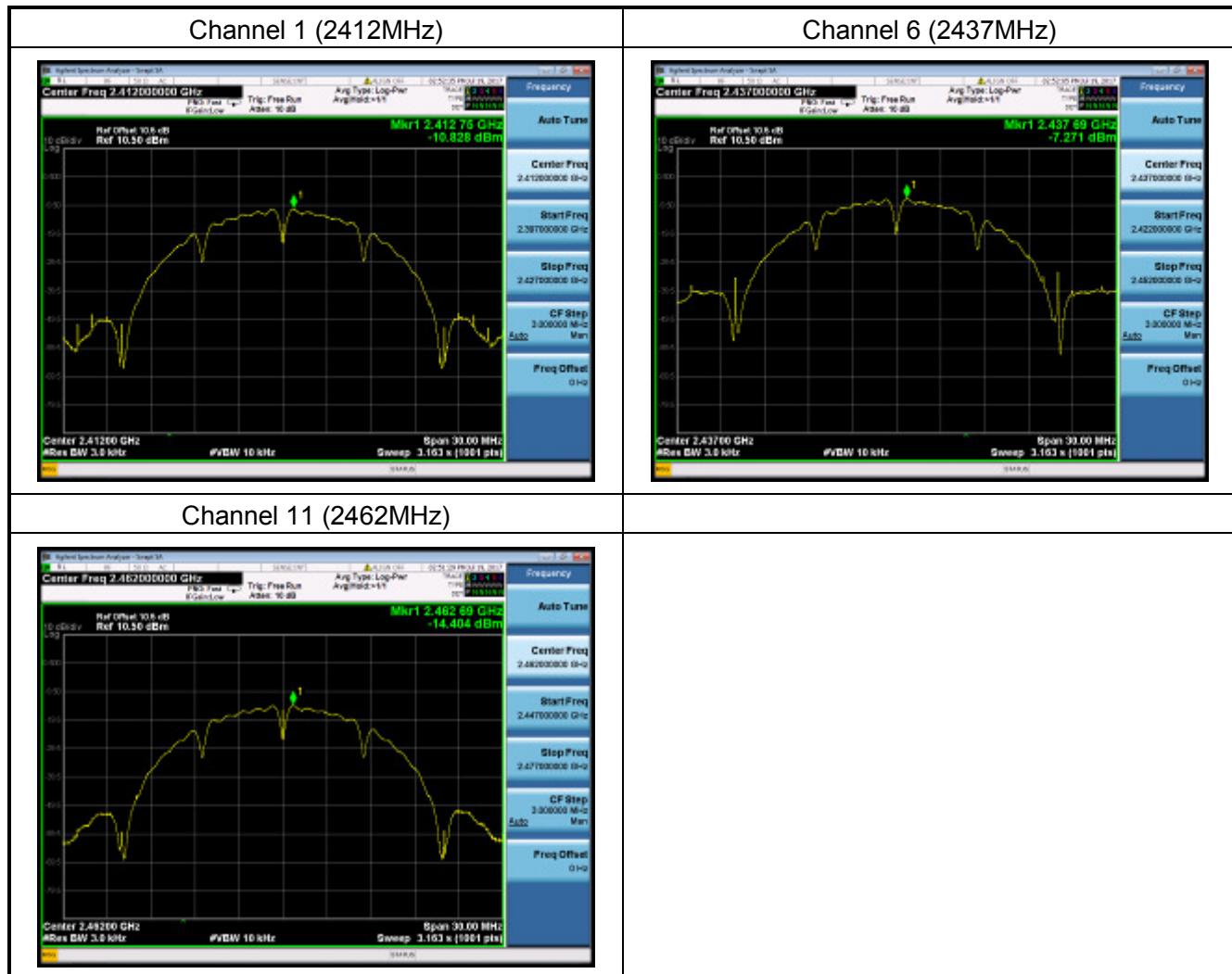


8.5 Test Result

Test Mode	Channel No.	Frequency(MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
802.11b	1	2412	-10.828	8	Pass
	6	2437	-7.271	8	Pass
	11	2462	-14.404	8	Pass
802.11g	1	2412	-14.069	8	Pass
	6	2437	-11.072	8	Pass
	11	2462	-16.483	8	Pass
802.11n(20M Hz)	1	2412	-13.558	8	Pass
	6	2437	-10.463	8	Pass
	11	2462	-16.137	8	Pass
802.11n(40M Hz)	3	2422	-17.191	8	Pass
	6	2437	-11.133	8	Pass
	9	2452	-17.073	8	Pass

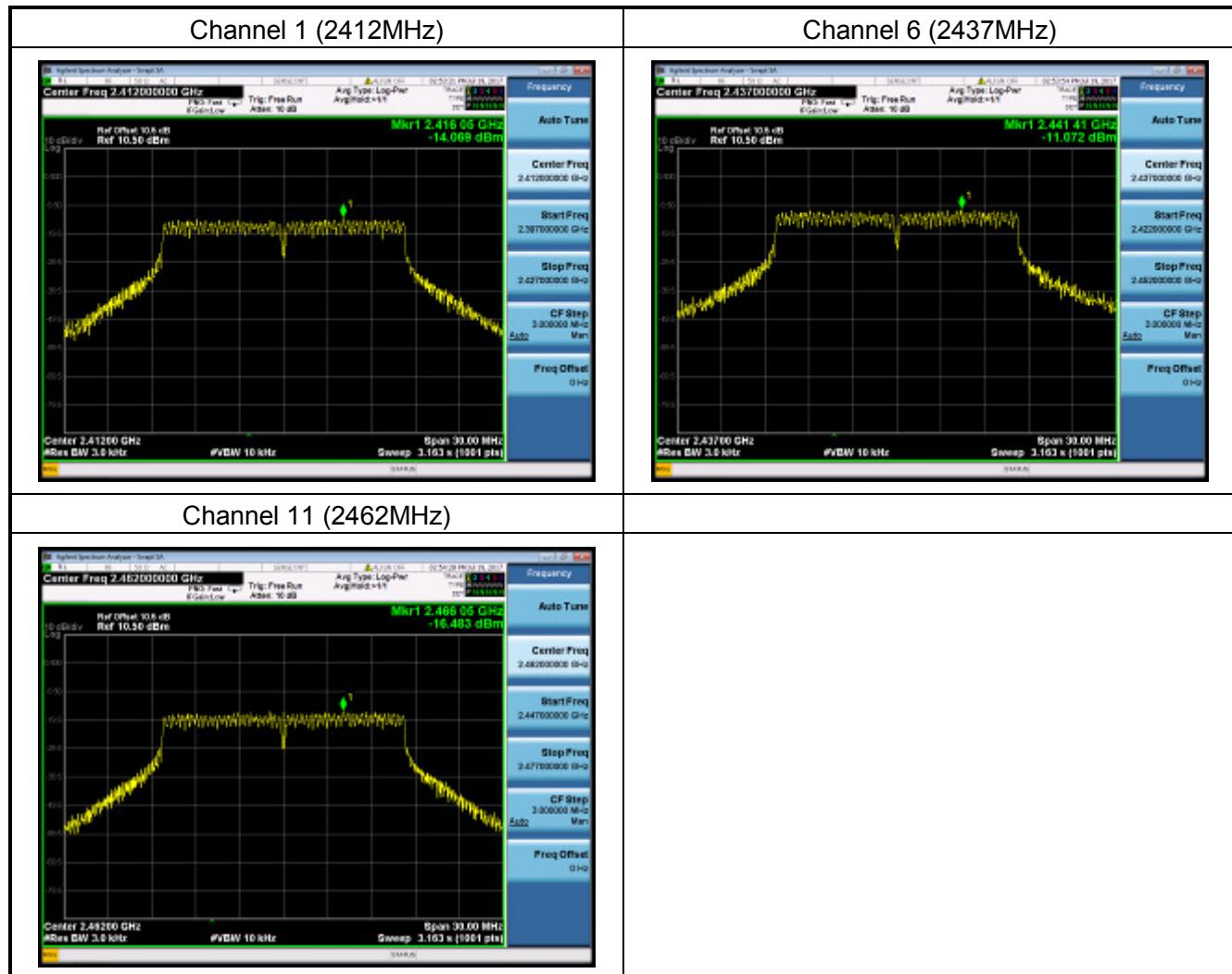


Test Item	Power Spectral Density
Test Mode	Mode 1: Transmit by 802.11b



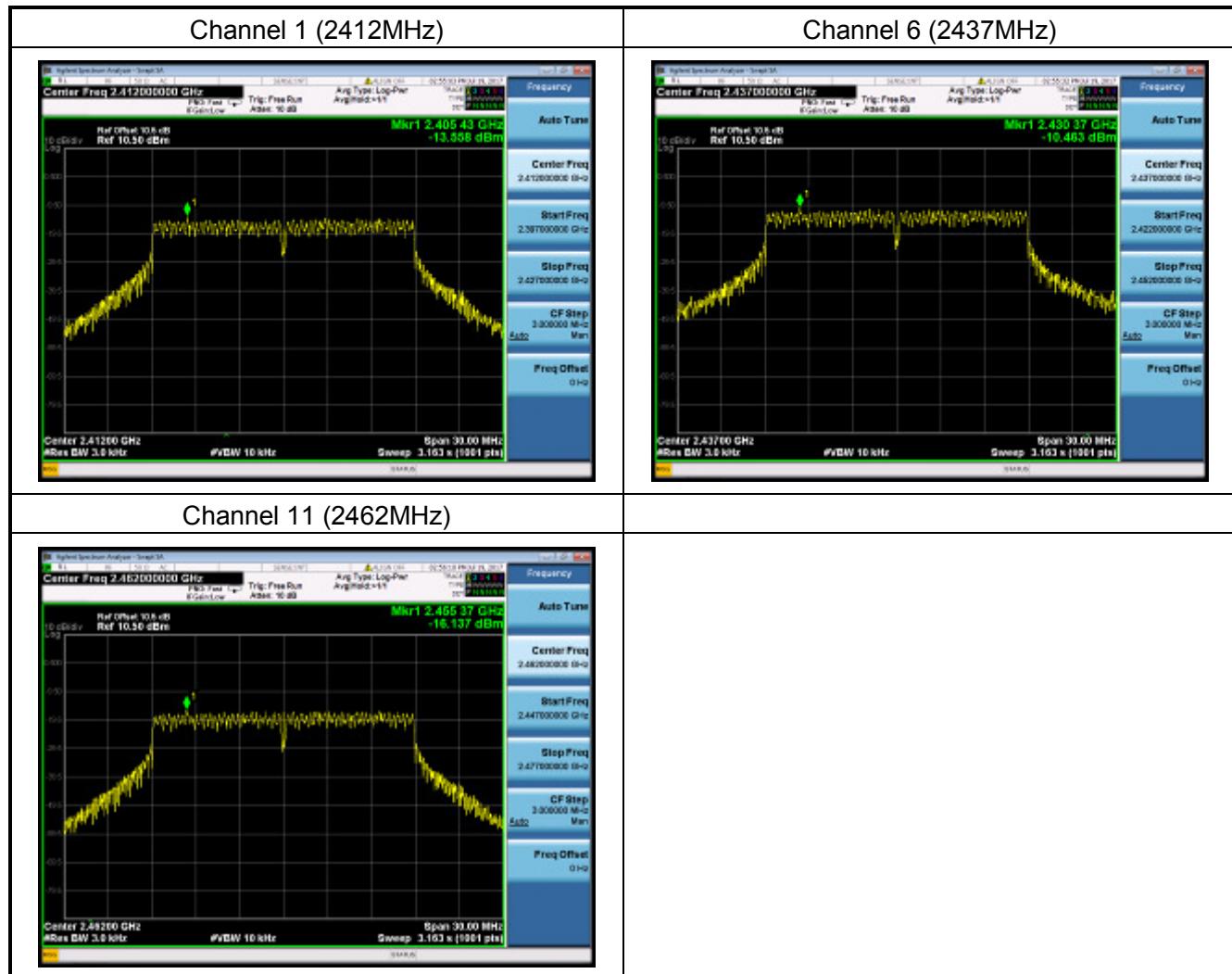


Test Item	Power Spectral Density
Test Mode	Mode 2: Transmit by 802.11g





Test Item	Power Spectral Density
Test Mode	Mode 3: Transmit by 802.11n(20MHz)





Test Item	Power Spectral Density
Test Mode	Mode 4: Transmit by 802.11n(40MHz)





9. Conducted Band Edge and Out-of-Band Emissions Measurement

9.1 Test Limit

According to FCC part 15.247(d) , in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) of FCC part 15 is not required.

9.2 Test Standard

KDB 558074 D01v04 - Section 11.2 & Section 11.3



9.3 Test Procedures

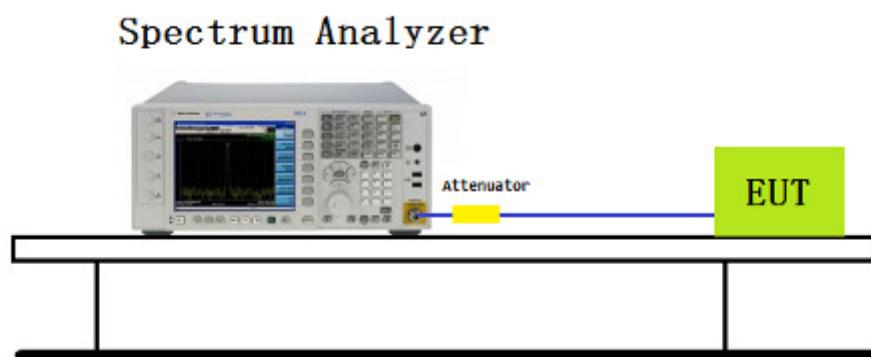
Reference level measurement:

1. Set the RBW = 100 kHz
2. Set the VBW $\geq 3 \times$ RBW
3. Set the span to ≥ 1.5 times the DTS bandwidth
4. Detector = peak
5. Trace mode = max hold
6. Sweep time = auto couple
7. Allow trace to fully stabilize
8. Set instrument center frequency to DTS channel center frequency

Emission level measurement:

1. RBW = 100kHz
2. VBW = 300kHz
3. Detector = Peak
4. Trace mode = max hold
5. Sweep time = auto couple
6. The trace was allowed to stabilize
7. Set the center frequency and span to encompass frequency range to be measured

9.4 Test Setup Layout





9.5 Test Result

Test Mode	Channel No.	Frequency (MHz)	Limit	Result
802.11b	1	2412	20dBc	Pass
	6	2437	20dBc	Pass
	11	2462	20dBc	Pass
802.11g	1	2412	20dBc	Pass
	6	2437	20dBc	Pass
	11	2462	20dBc	Pass
802.11n(20MHz)	1	2412	20dBc	Pass
	6	2437	20dBc	Pass
	11	2462	20dBc	Pass
802.11n(40MHz)	3	2422	20dBc	Pass
	6	2437	20dBc	Pass
	9	2452	20dBc	Pass



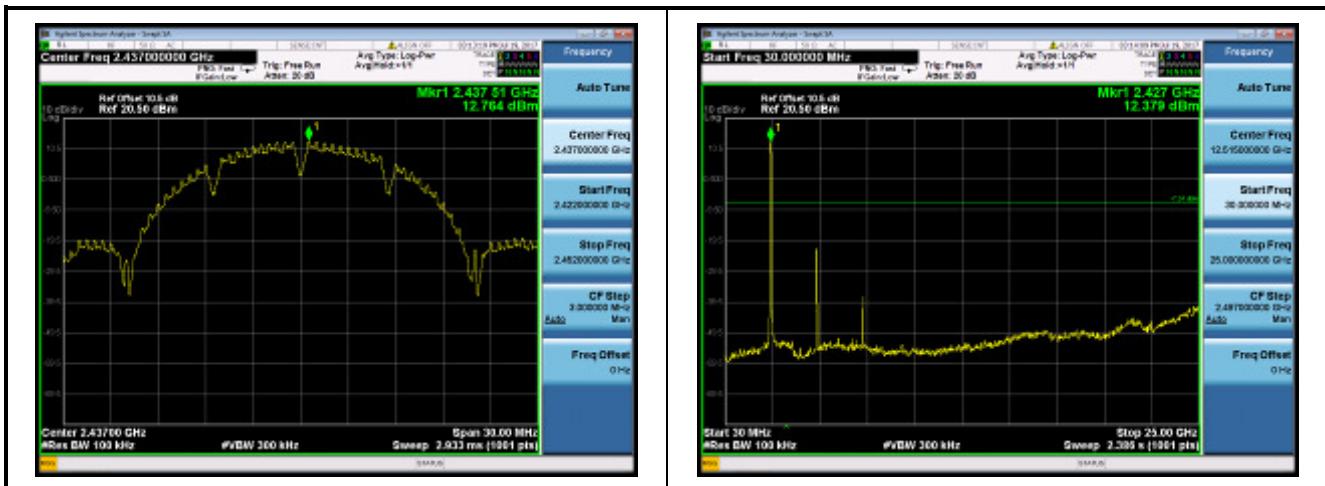
Test Item	:	Conducted Band Edge and Out-of-Band Emissions
Test Mode	:	Mode 1: Transmit by 802.11b

Mode 1: Transmit by 802.11b (2412MHz)

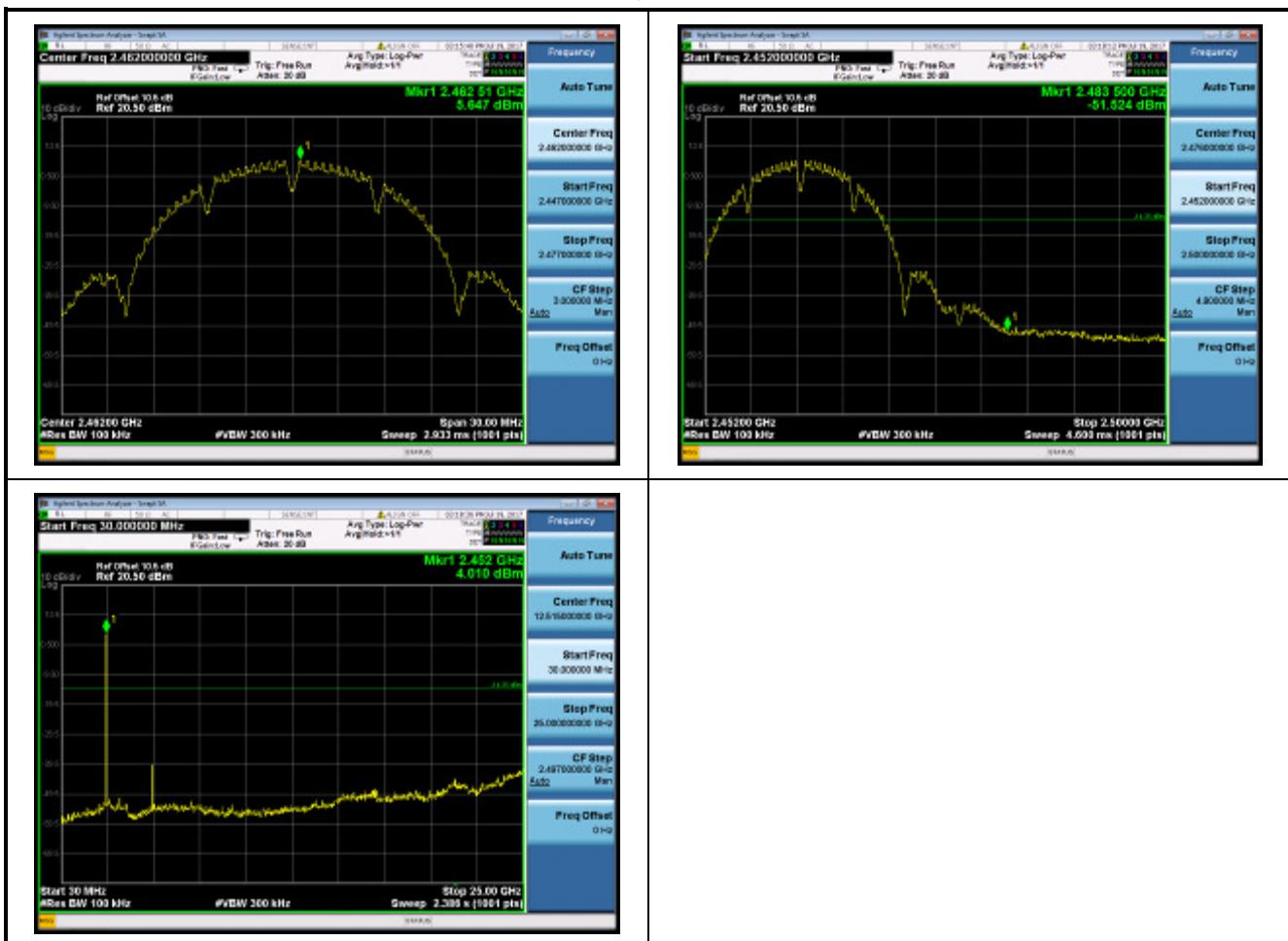




Mode 1: Transmit by 802.11b (2437MHz)



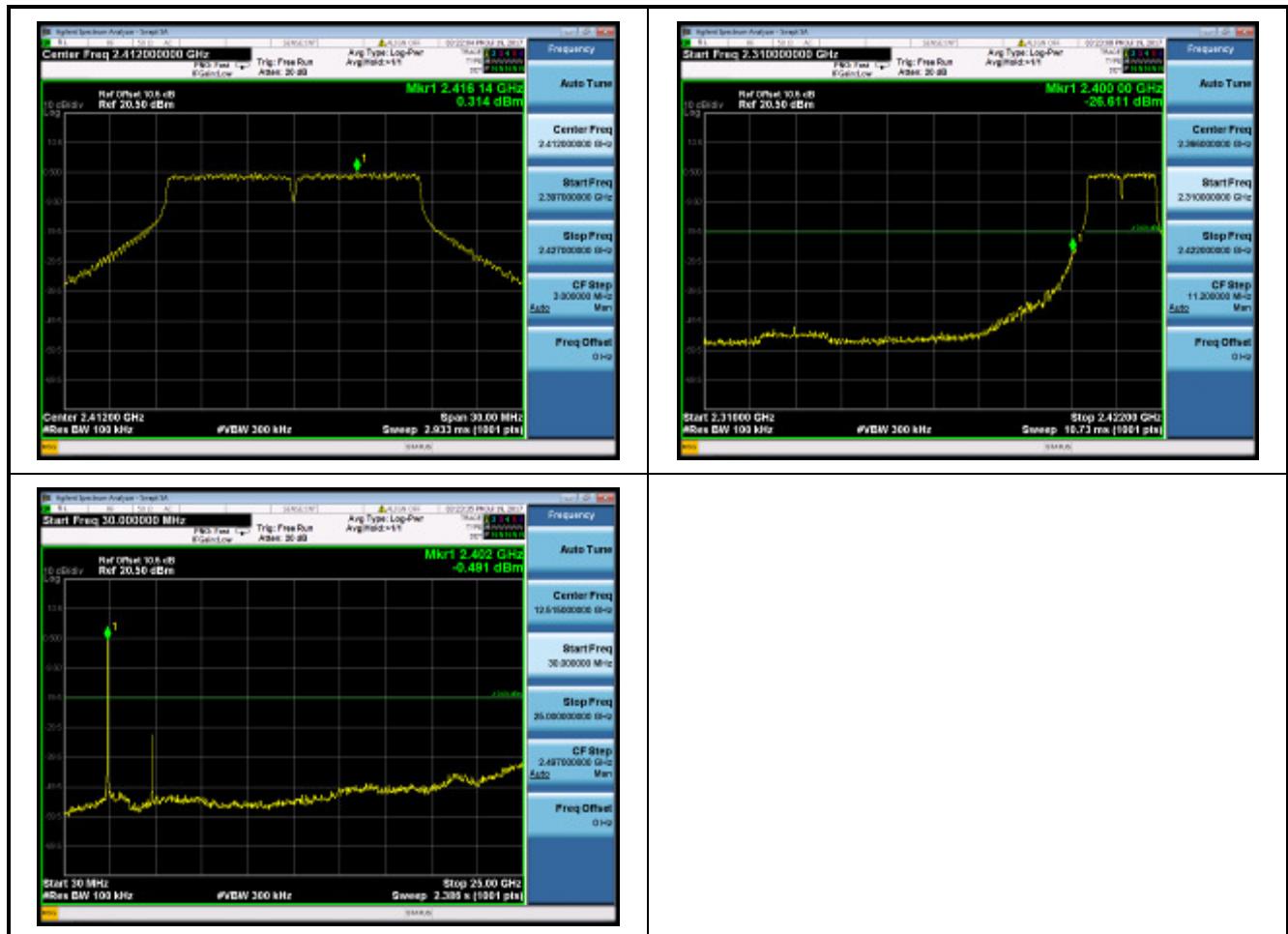
Mode 1: Transmit by 802.11b (2462MHz)





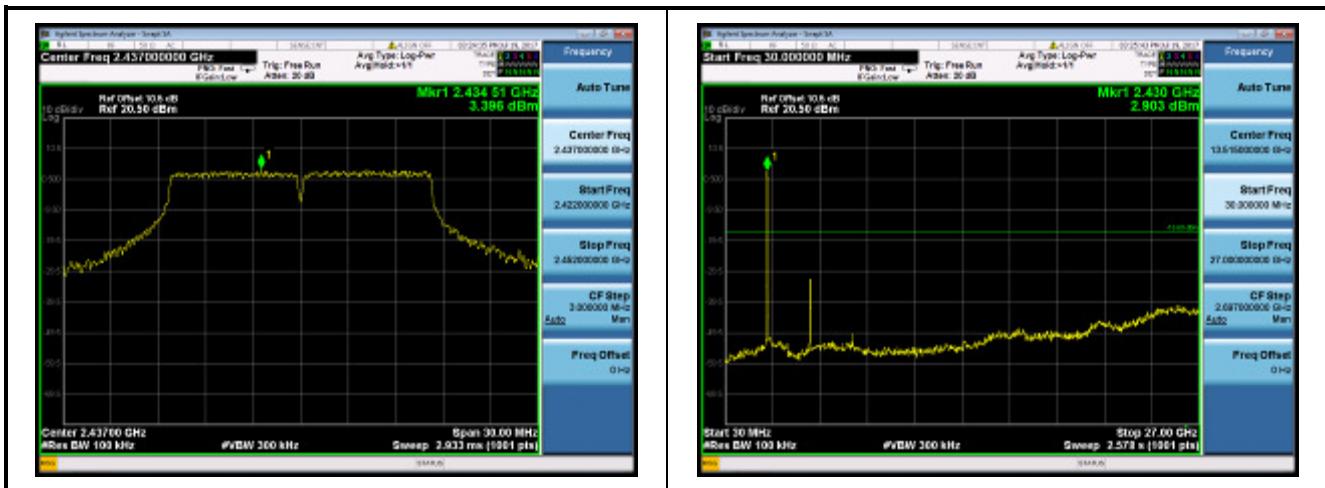
Test Item	:	Band-edge Compliance & Conducted Spurious Emissions
Test Mode	:	Mode 2: Transmit by 802.11g

Mode 2: Transmit by 802.11g (2412MHz)

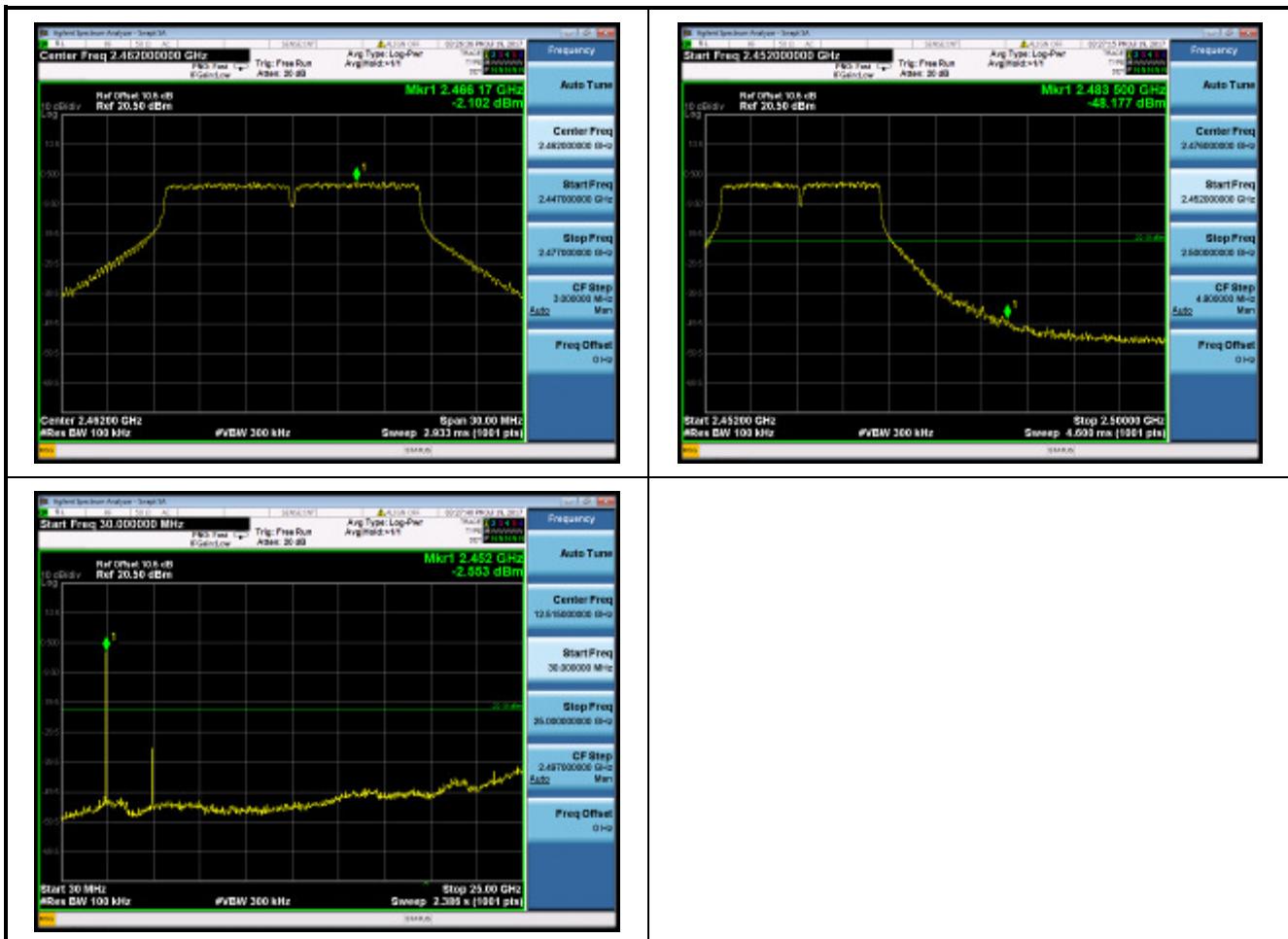




Mode 2: Transmit by 802.11g (2437MHz)



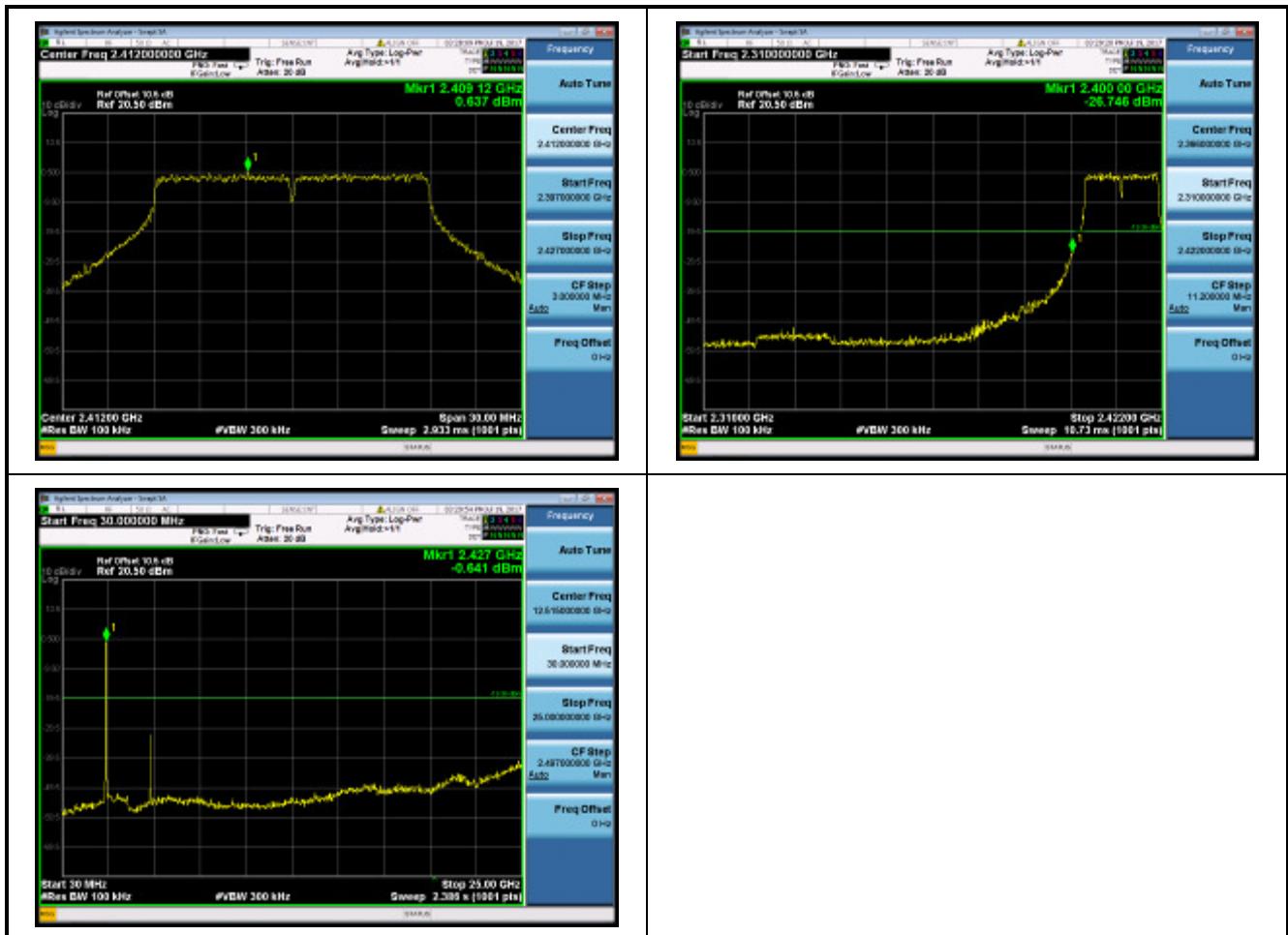
Mode 2: Transmit by 802.11g (2462MHz)





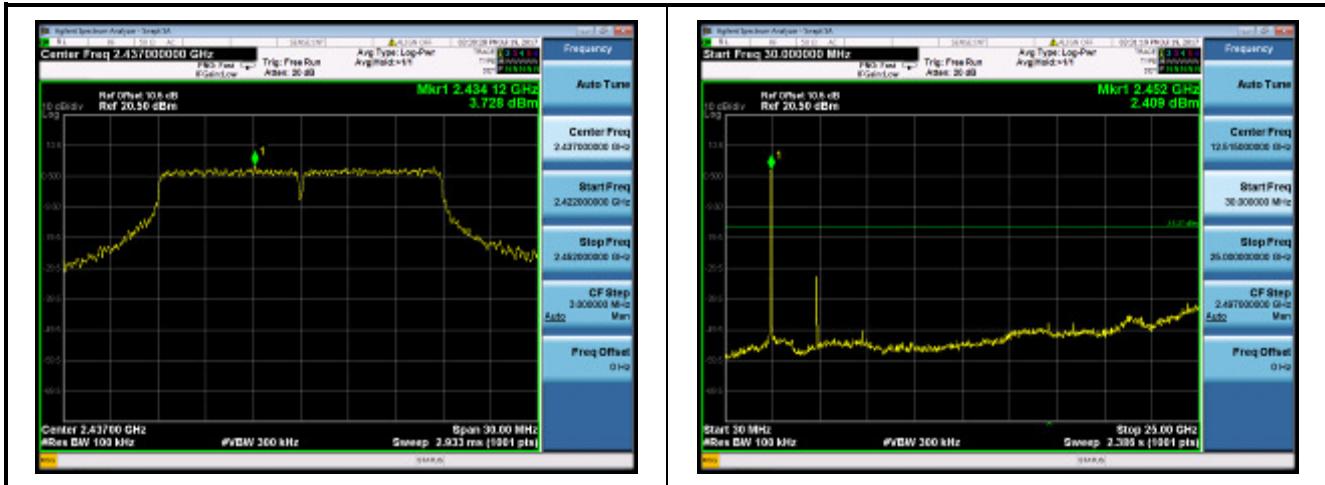
Test Item	:	Band-edge Compliance & Conducted Spurious Emissions
Test Mode	:	Mode 3: Transmit by 802.11n(20MHz)

Mode 3: Transmit by 802.11n(20MHz) (2412MHz)

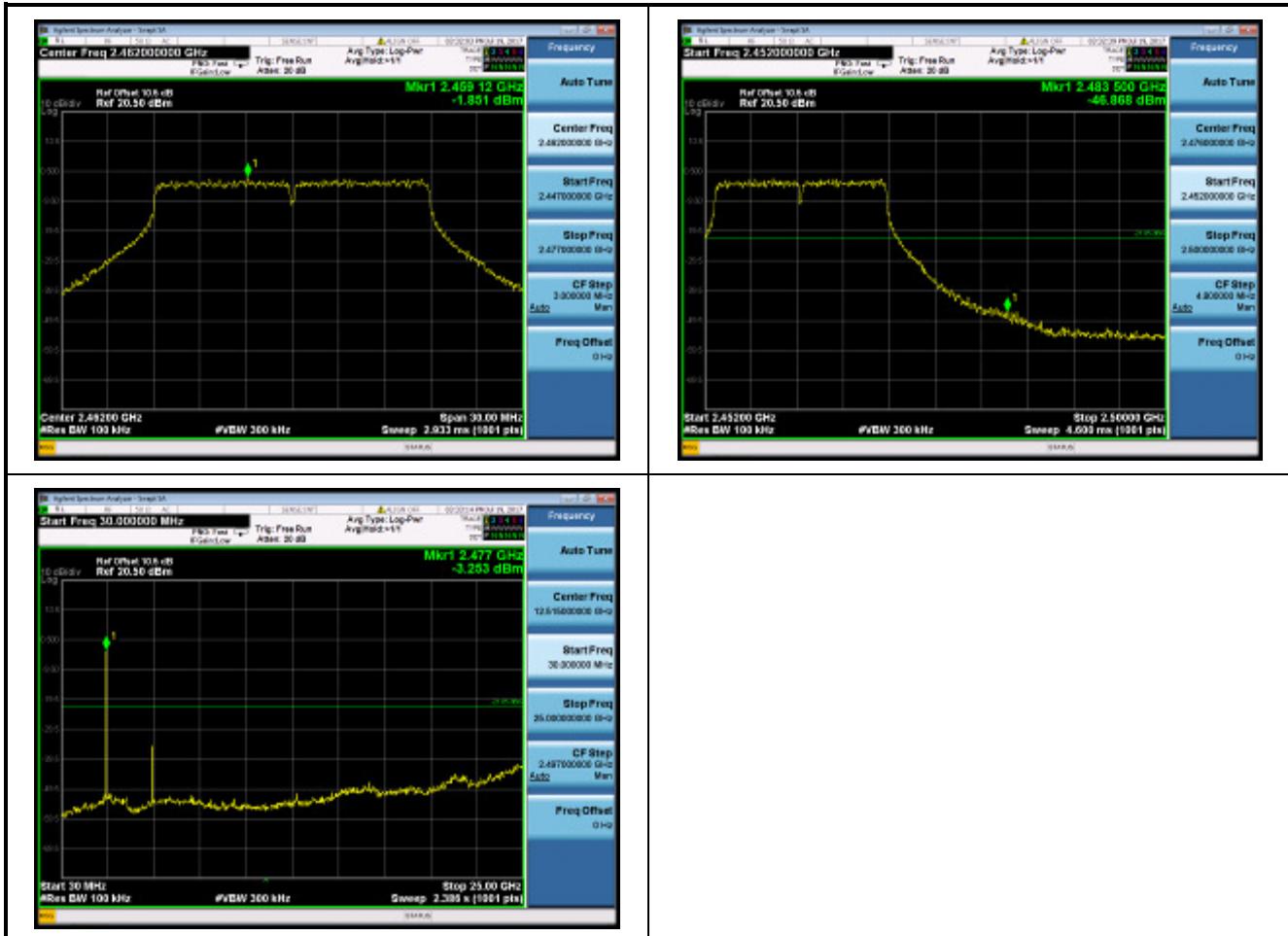




Mode 3: Transmit by 802.11n(20MHz) (2437MHz)



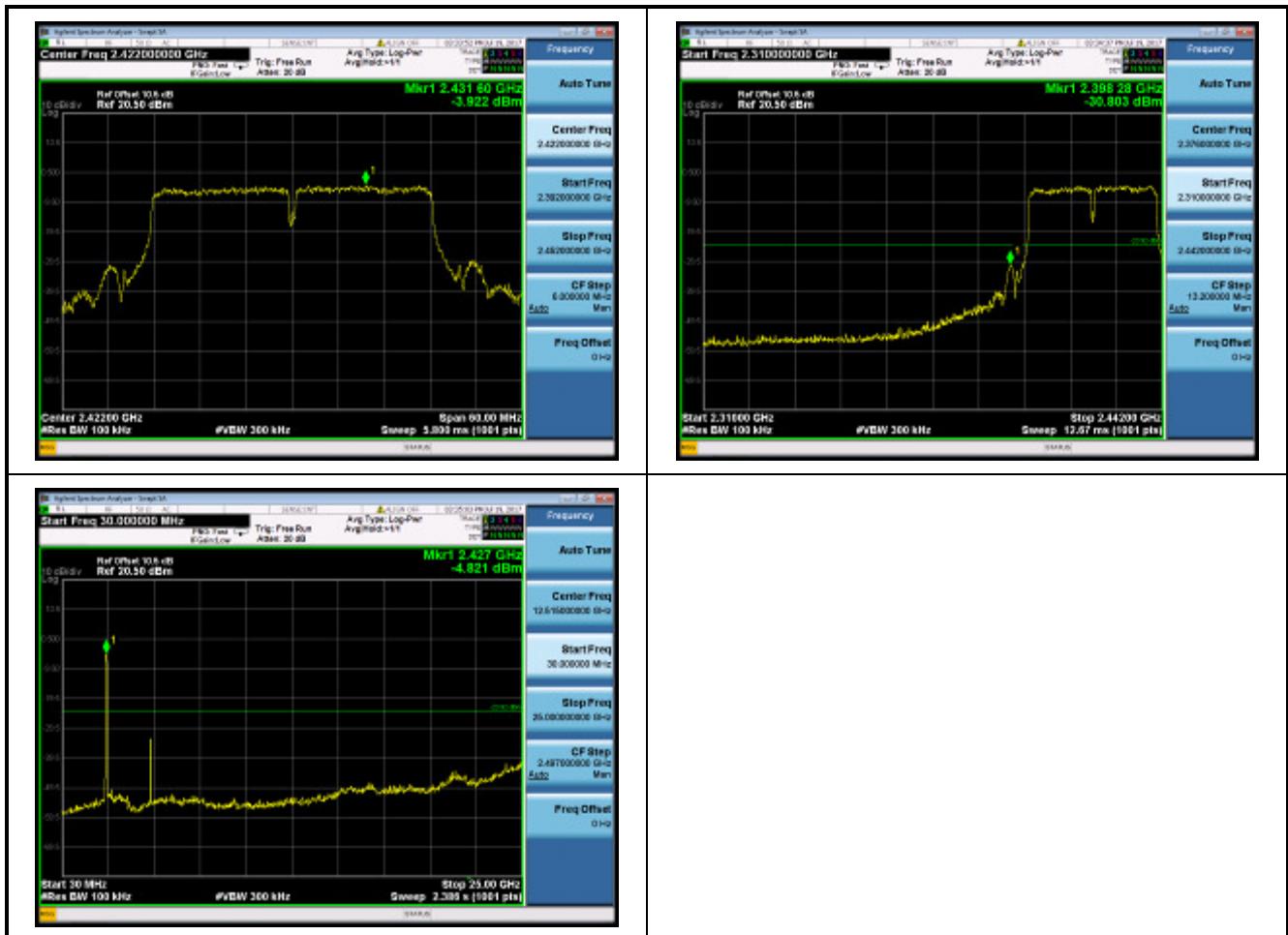
Mode 3: Transmit by 802.11n(20MHz) (2462MHz)





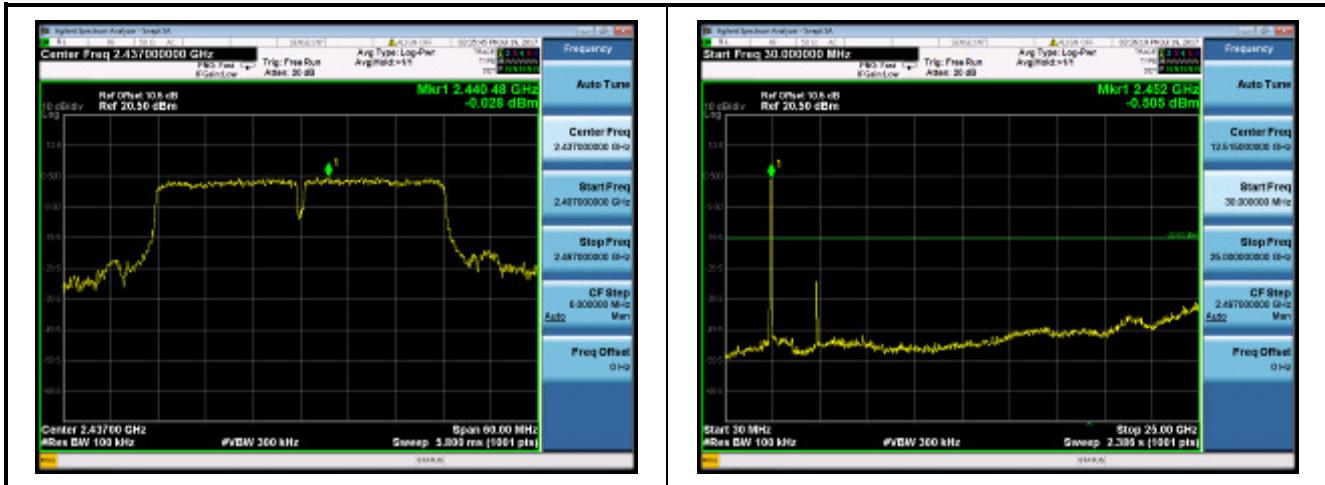
Test Item	:	Band-edge Compliance & Conducted Spurious Emissions
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz)

Mode 4: Transmit by 802.11n(40MHz) (2422MHz)





Mode 4: Transmit by 802.11n(40MHz) (2437MHz)



Mode 4: Transmit by 802.11n(40MHz) (2452MHz)





10. Radiated Emission Band Edge Measurement

10.1 Test Limit

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) of FCC part 15.

10.2 Test Standard

ANSI C63.10-2013 Section 6.10.5

10.3 Test Procedure

Peak Field Strength Measurements:

Analyzer center frequency was set to the frequency of the radiated spurious emission of interest

7. RBW=As specified in Table 1
8. VBW=3×RBW
9. Detector=Peak
10. Trace mode=Max hold
11. Sweep time=Auto couple
12. Allow the trace to stabilize

Table 1-RBW as a function of frequency

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



AVE Field Strength Measurements:

Analyzer center frequency was set to the frequency of the radiated spurious emission of interest

7. RBW= 1MHz

8. VBW \geq 1/T

9. Detector=Peak

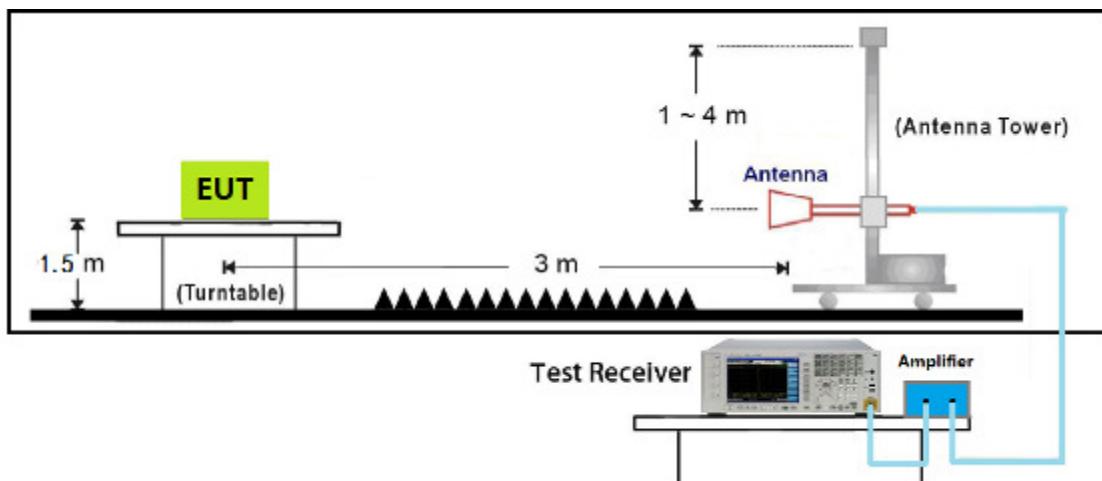
10. Trace mode=Max hold

11. Sweep time=Auto couple

12. Allow max hold to run for at least 50 times(1/duty cycle) trace

Do 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

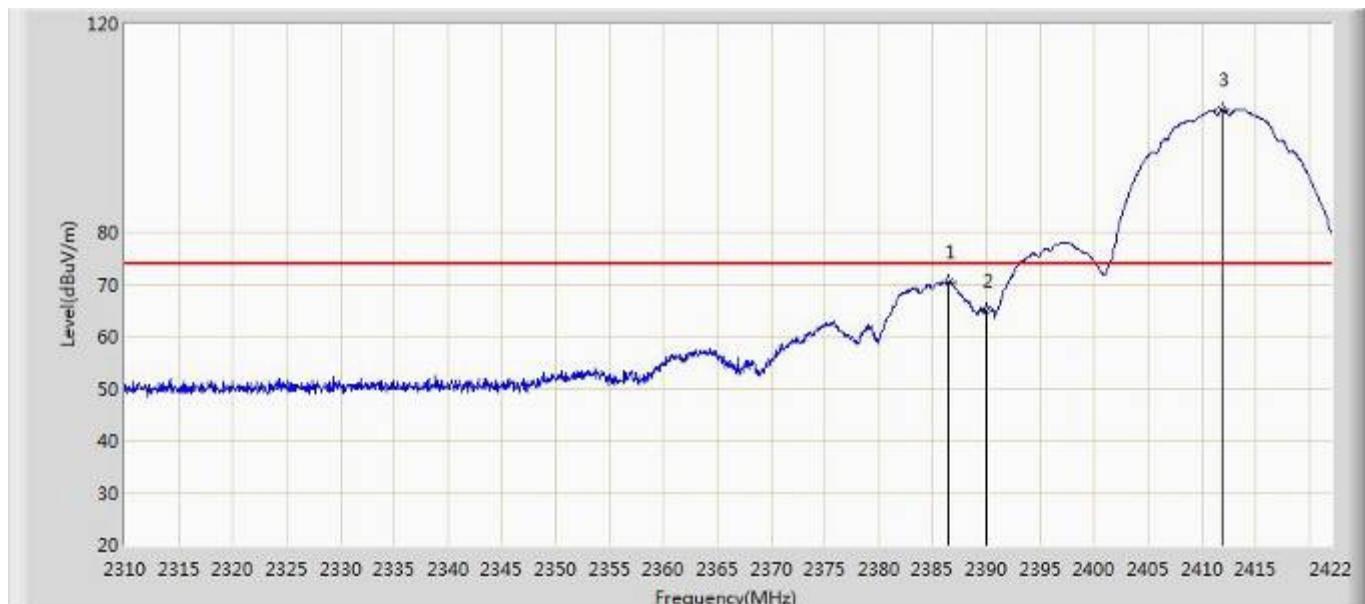
10.4 Test Setup Layout





10.5 Test Result

Site: AC102	Time: 2017/07/18 - 18:39
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT:960P/1.3MP Fixed Wireless IP Camera	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11b at 2412MHz	



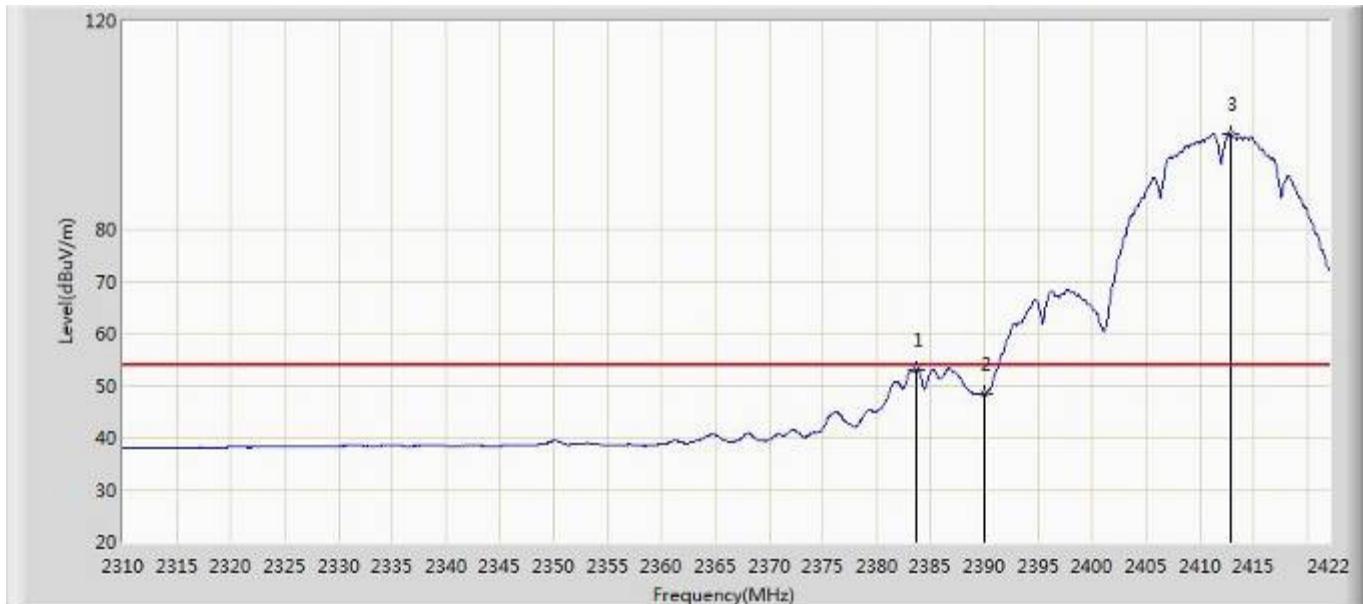
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2386.440	70.471	72.725	-3.529	74.000	-2.254	PK
2		2390.000	64.943	67.184	-9.057	74.000	-2.241	PK
3	*	2411.864	103.458	105.618	N/A	N/A	-2.160	PK

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

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



Site: AC102	Time: 2017/07/18 - 19:06
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT:960P/1.3MP Fixed Wireless IP Camera	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11b at 2412MHz	



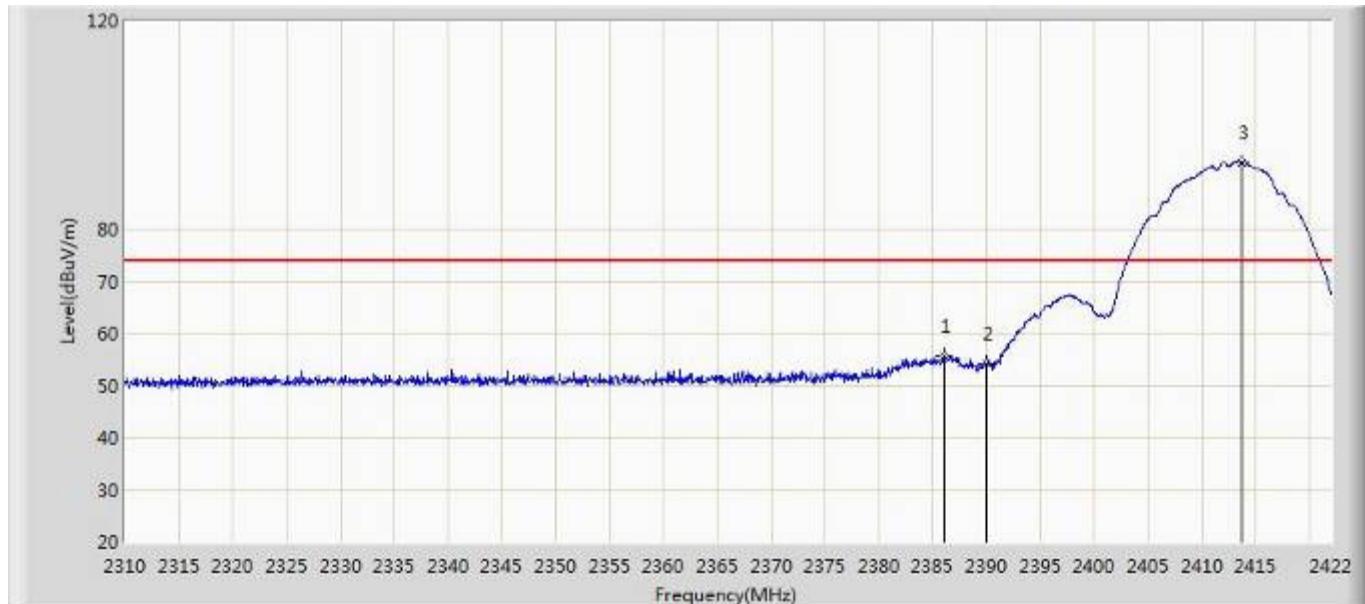
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	Factor (dB)	Type
1		2383.640	53.129	55.394	-0.871	54.000	-2.265	AV
2		2390.000	48.438	50.679	-5.562	54.000	-2.241	AV
3	*	2412.816	98.243	100.399	N/A	N/A	-2.156	AV

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

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



Site: AC102	Time: 2017/07/18 - 19:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT:960P/1.3MP Fixed Wireless IP Camera	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11b at 2412MHz	



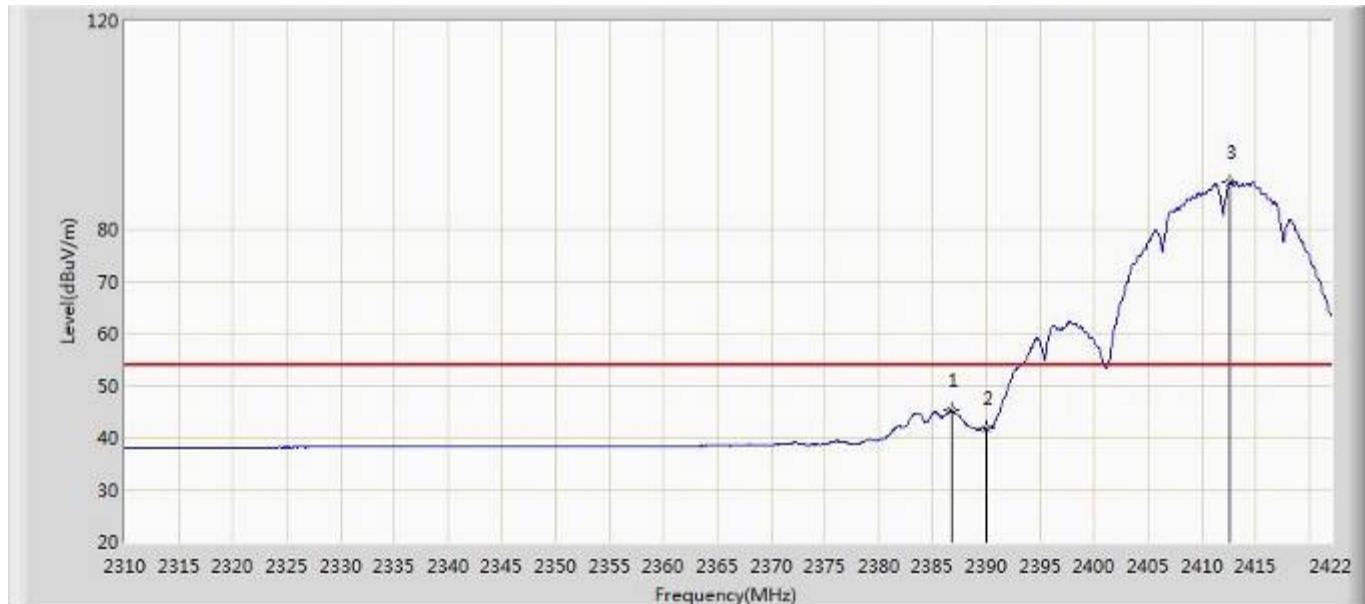
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	Factor (dB)	Type
1		2386.104	55.604	57.860	-18.396	74.000	-2.256	PK
2		2390.000	54.222	56.463	-19.778	74.000	-2.241	PK
3	*	2413.712	92.860	95.013	N/A	N/A	-2.153	PK

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

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



Site: AC102	Time: 2017/07/18 - 19:17
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT:960P/1.3MP Fixed Wireless IP Camera	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11b at 2412MHz	



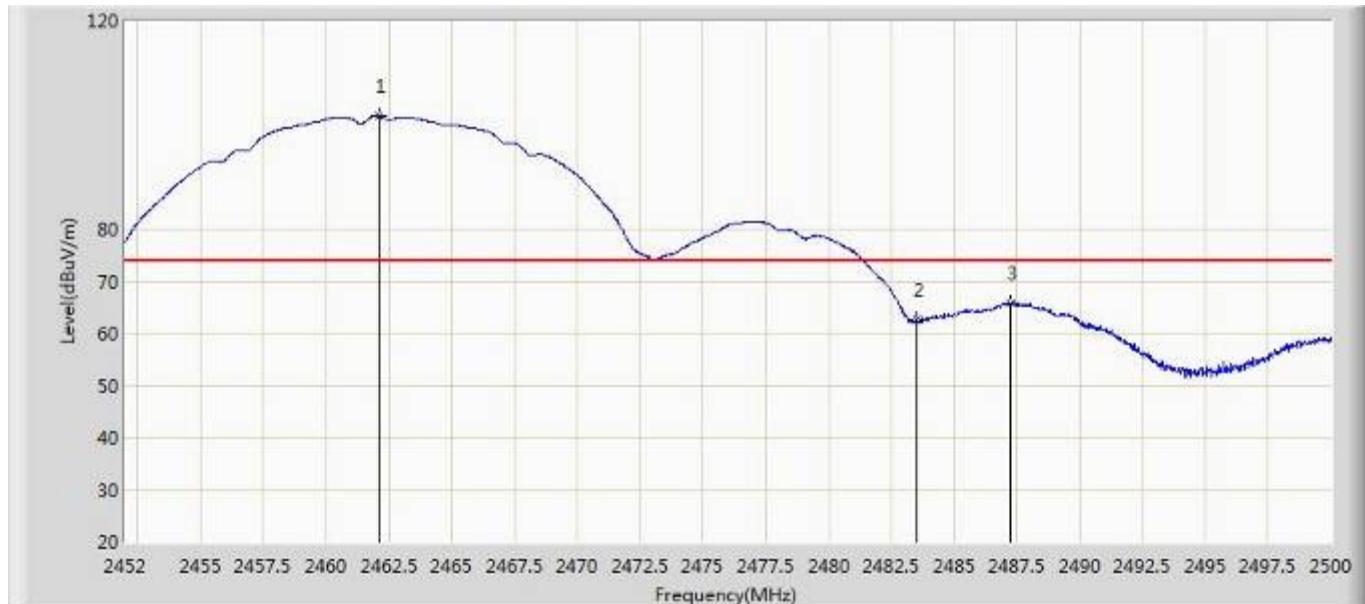
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	Factor (dB)	Type
1		2386.720	45.159	47.412	-8.841	54.000	-2.253	AV
2		2390.000	41.876	44.117	-12.124	54.000	-2.241	AV
3	*	2412.648	88.871	91.028	N/A	N/A	-2.157	AV

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

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



Site: AC102	Time: 2017/07/18 - 19:18
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT:960P/1.3MP Fixed Wireless IP Camera	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11b at 2462MHz	



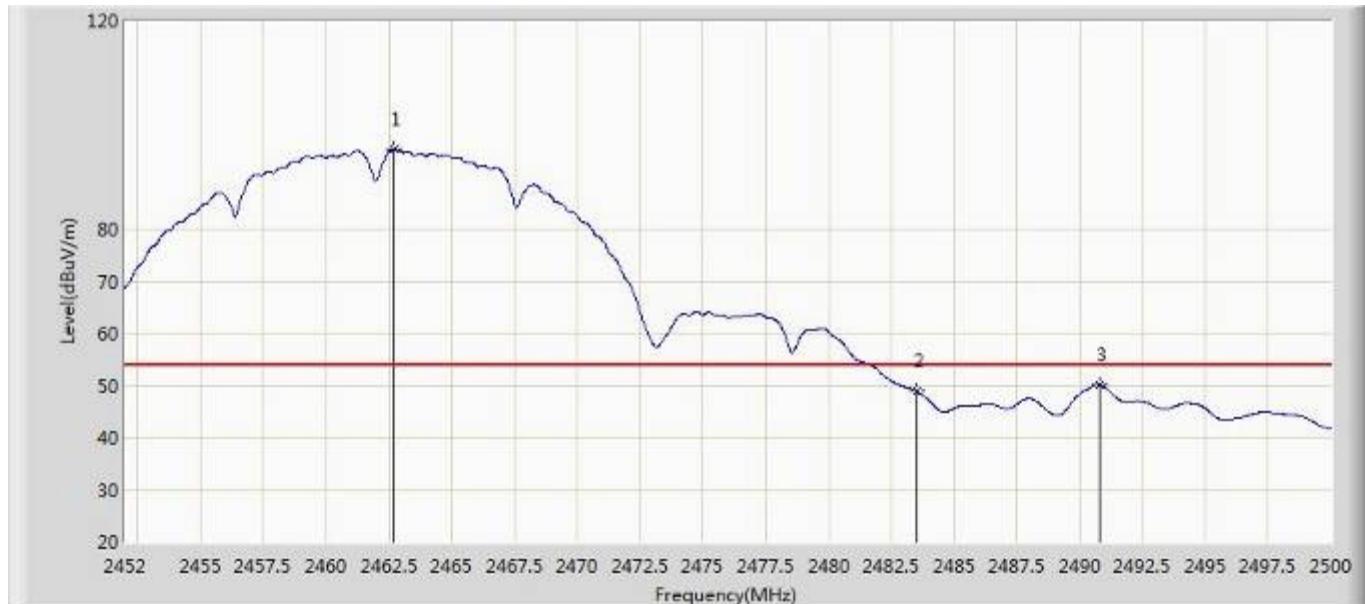
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2462.104	101.736	103.708	N/A	N/A	-1.972	PK
		2483.500	62.608	64.500	-11.392	74.000	-1.892	PK
		2487.256	65.868	67.746	-8.132	74.000	-1.878	PK

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

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



Site: AC102	Time: 2017/07/18 - 19:20
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT:960P/1.3MP Fixed Wireless IP Camera	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11b at 2462MHz	



No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	Factor (dB)	Type
1	*	2462.728	95.426	97.395	N/A	N/A	-1.969	AV
		2483.500	48.880	50.772	-5.120	54.000	-1.892	AV
		2490.808	50.158	52.023	-3.842	54.000	-1.865	AV

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

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



Site: AC102	Time: 2017/07/18 - 19:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT:960P/1.3MP Fixed Wireless IP Camera	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11b at 2462MHz	



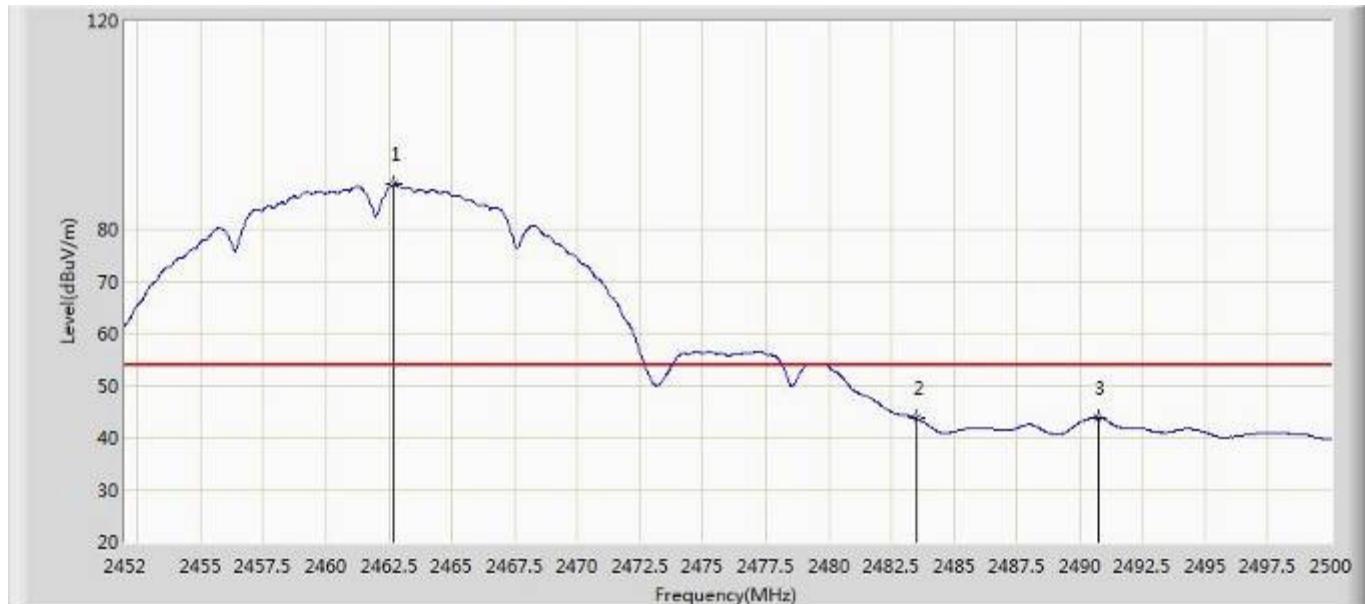
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	Factor (dB)	Type
1	*	2462.032	92.352	94.324	N/A	N/A	-1.972	PK
		2483.500	55.180	57.072	-18.820	74.000	-1.892	PK
		2490.352	55.883	57.749	-18.117	74.000	-1.866	PK

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

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



Site: AC102	Time: 2017/07/18 - 19:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT:960P/1.3MP Fixed Wireless IP Camera	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11b at 2462MHz	



No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	Factor (dB)	Type
1	*	2462.728	88.580	90.549	N/A	N/A	-1.969	AV
		2483.500	43.626	45.518	-10.374	54.000	-1.892	AV
		2490.736	43.889	45.754	-10.111	54.000	-1.865	AV

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

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



Site: AC102	Time: 2017/07/18 - 19:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT:960P/1.3MP Fixed Wireless IP Camera	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11g at 2412MHz	



No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	Factor (dB)	Type
1		2390.000	65.801	68.042	-8.199	74.000	-2.241	PK
2	*	2418.080	99.093	101.229	N/A	N/A	-2.136	PK

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

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



Site: AC102	Time: 2017/07/18 - 19:31
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT:960P/1.3MP Fixed Wireless IP Camera	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11g at 2412MHz	



No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	Factor (dB)	Type
1		2390.000	50.753	52.994	-3.247	54.000	-2.241	AV
2	*	2409.512	88.872	91.041	N/A	N/A	-2.169	AV

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

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



Site: AC102	Time: 2017/07/18 - 19:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT:960P/1.3MP Fixed Wireless IP Camera	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11g at 2412MHz	



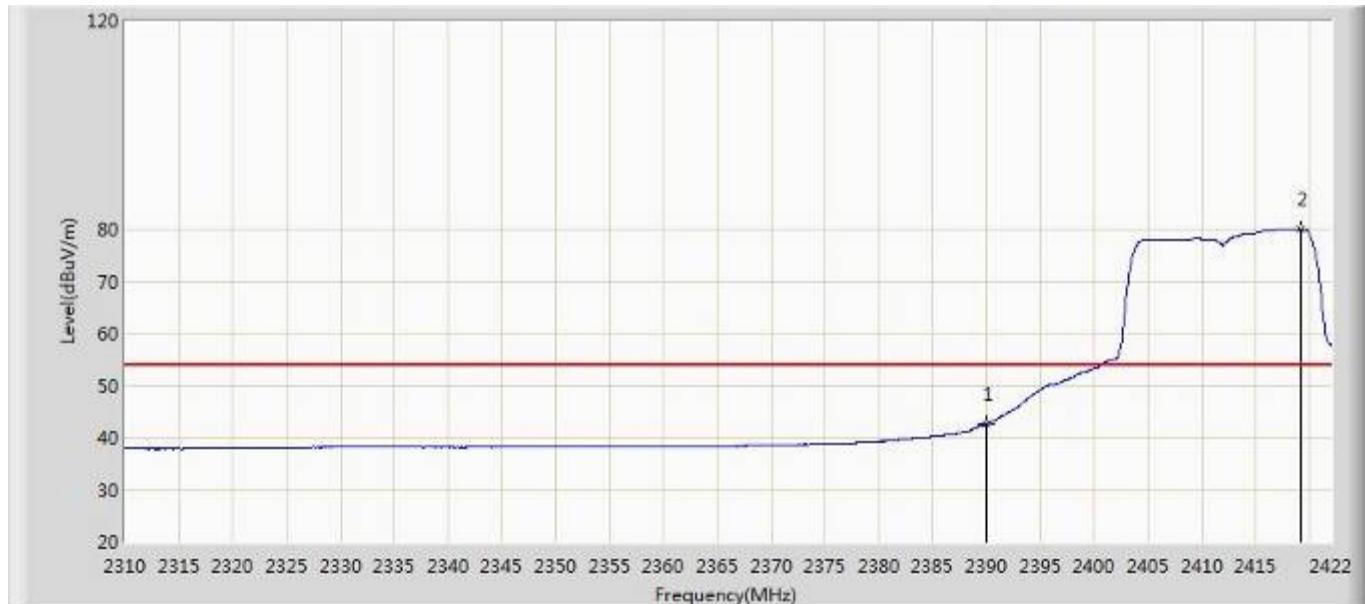
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	Factor (dB)	Type
1		2390.000	59.329	61.570	-14.671	74.000	-2.241	PK
2	*	2405.088	89.179	91.364	N/A	N/A	-2.185	PK

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

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



Site: AC102	Time: 2017/07/18 - 19:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT:960P/1.3MP Fixed Wireless IP Camera	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11g at 2412MHz	



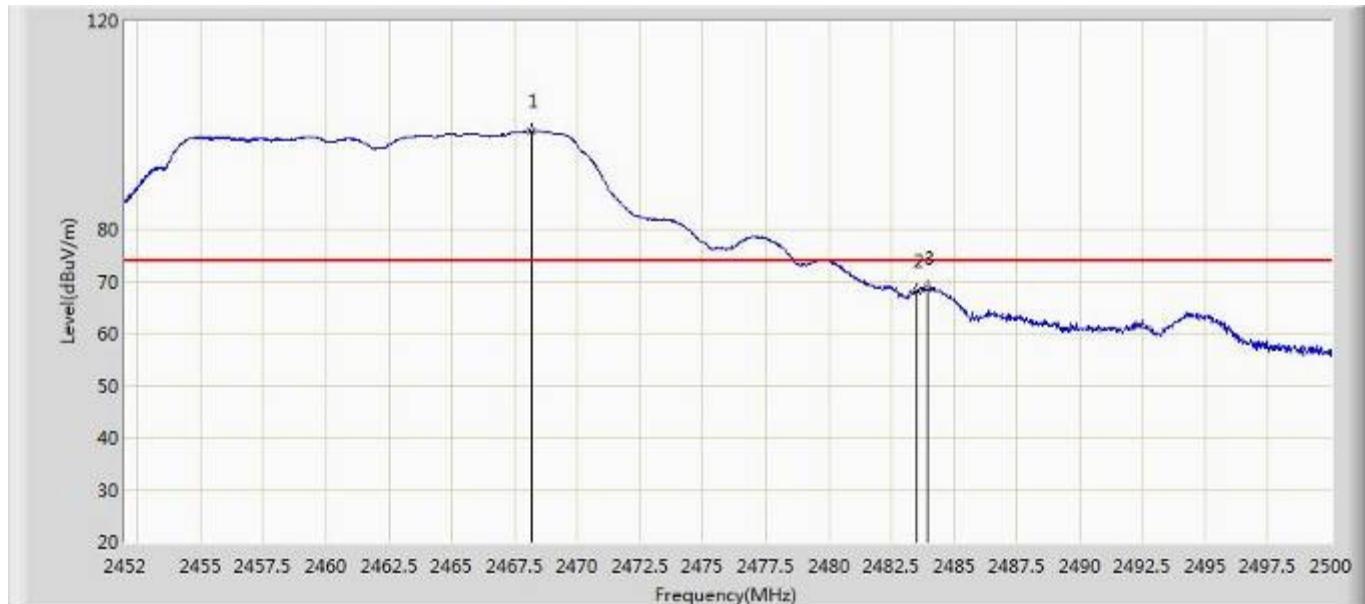
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	Factor (dB)	Type
1		2390.000	42.661	44.902	-11.339	54.000	-2.241	AV
2	*	2419.144	80.127	82.259	N/A	N/A	-2.132	AV

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

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



Site: AC102	Time: 2017/07/18 - 19:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT:960P/1.3MP Fixed Wireless IP Camera	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11g at 2462MHz	



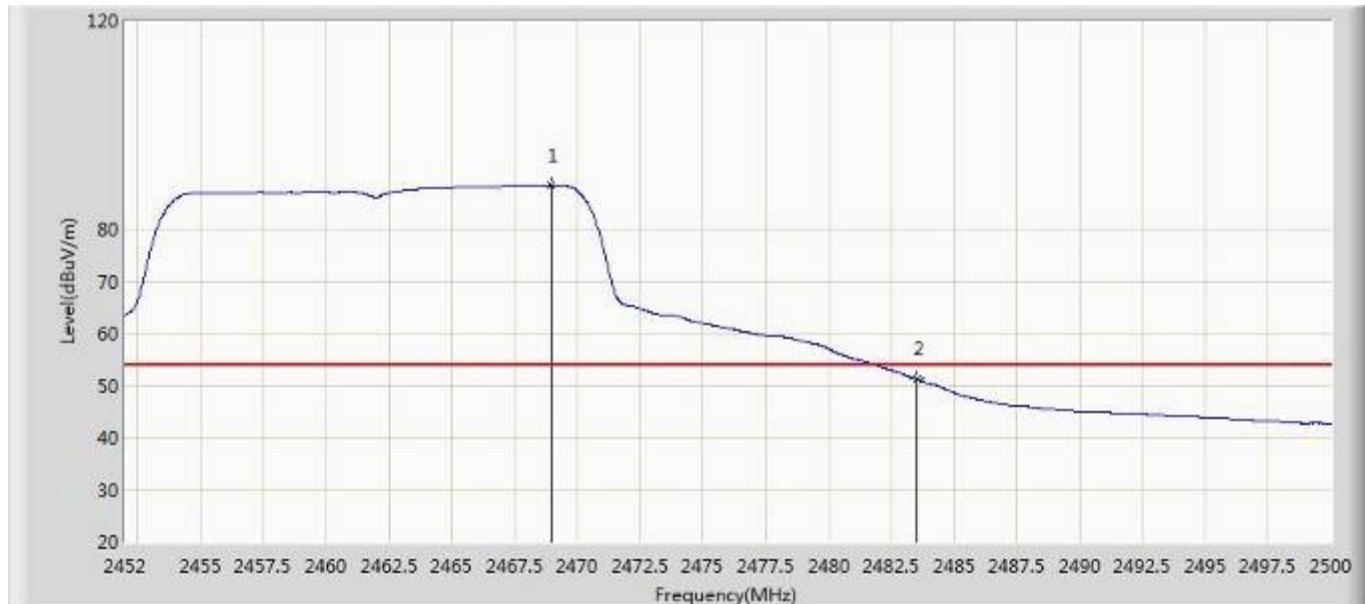
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	Factor (dB)	Type
1	*	2468.200	98.894	100.843	N/A	N/A	-1.949	PK
		2483.500	68.138	70.030	-5.862	74.000	-1.892	PK
		2483.944	68.618	70.508	-5.382	74.000	-1.890	PK

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

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



Site: AC102	Time: 2017/07/18 - 19:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT:960P/1.3MP Fixed Wireless IP Camera	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11g at 2462MHz	



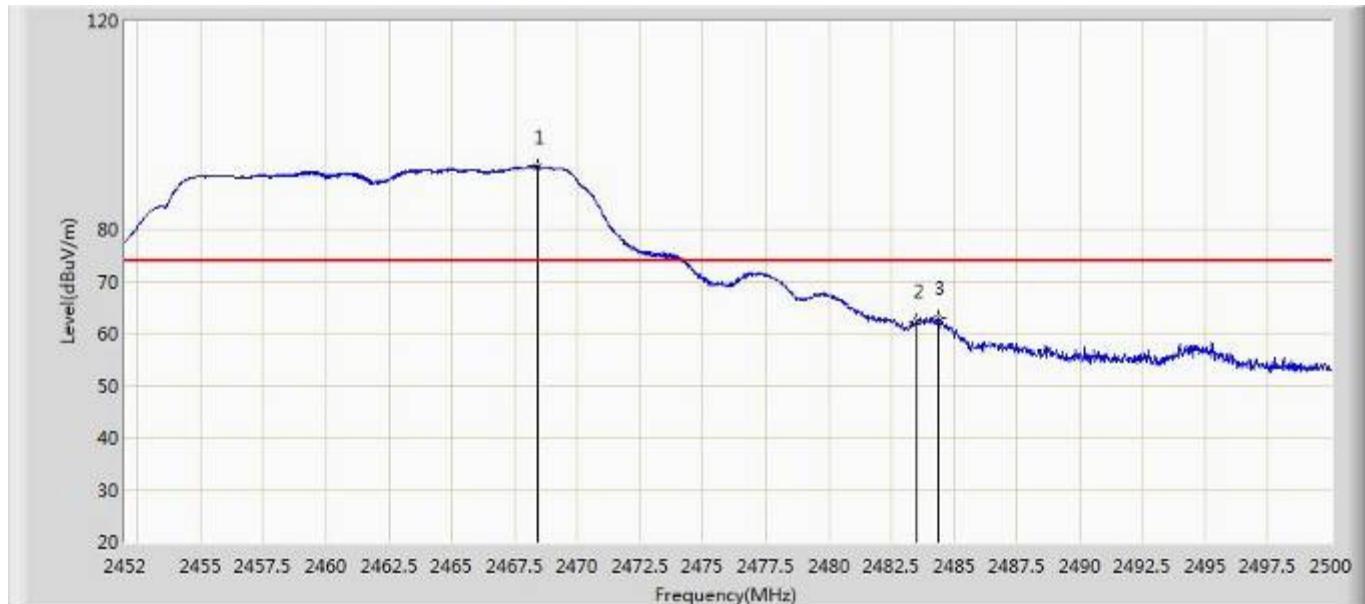
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	Factor (dB)	Type
1	*	2468.944	88.484	90.430	N/A	N/A	-1.946	AV
2		2483.500	51.200	53.092	-2.800	54.000	-1.892	AV

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

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



Site: AC102	Time: 2017/07/18 - 19:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT:960P/1.3MP Fixed Wireless IP Camera	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11g at 2462MHz	



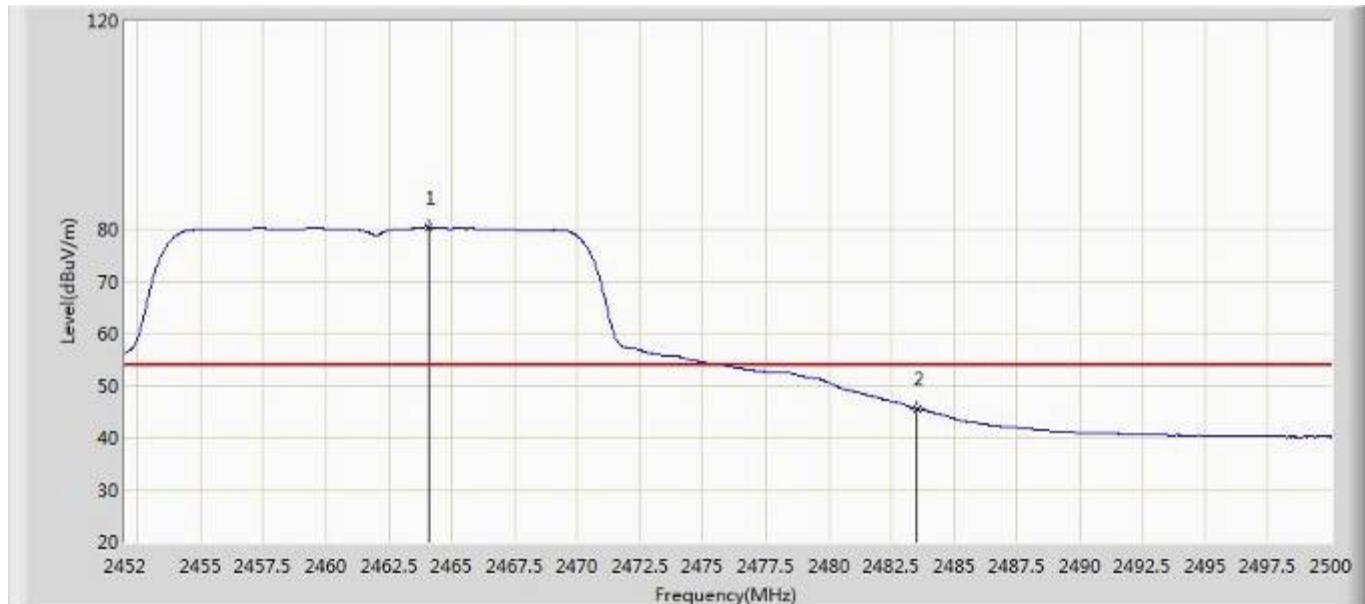
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	Factor (dB)	Type
1	*	2468.416	91.970	93.918	N/A	N/A	-1.948	PK
2		2483.500	62.198	64.090	-11.802	74.000	-1.892	PK
3		2484.352	62.874	64.763	-11.126	74.000	-1.889	PK

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

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



Site: AC102	Time: 2017/07/18 - 19:42
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT:960P/1.3MP Fixed Wireless IP Camera	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11g at 2462MHz	



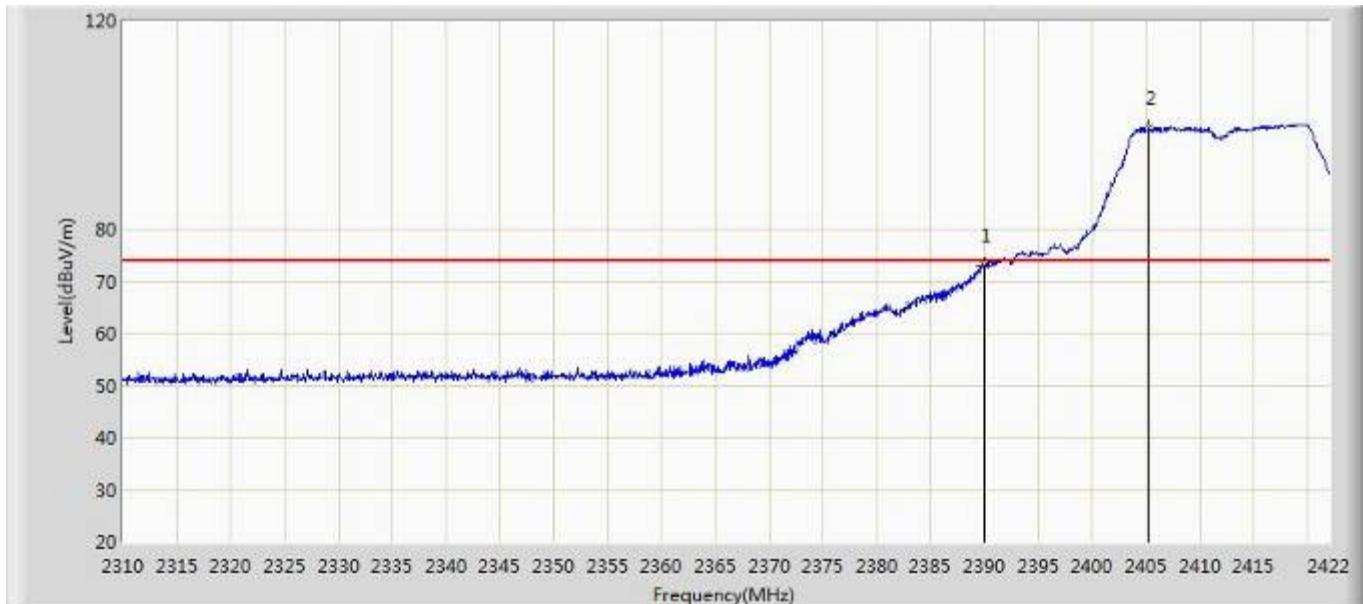
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	Factor (dB)	Type
1	*	2464.072	80.429	82.393	N/A	N/A	-1.964	AV
2		2483.500	45.604	47.496	-8.396	54.000	-1.892	AV

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

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



Site: AC102	Time: 2017/07/18 - 19:42
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT:960P/1.3MP Fixed Wireless IP Camera	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11n(20MHz) at 2412MHz	



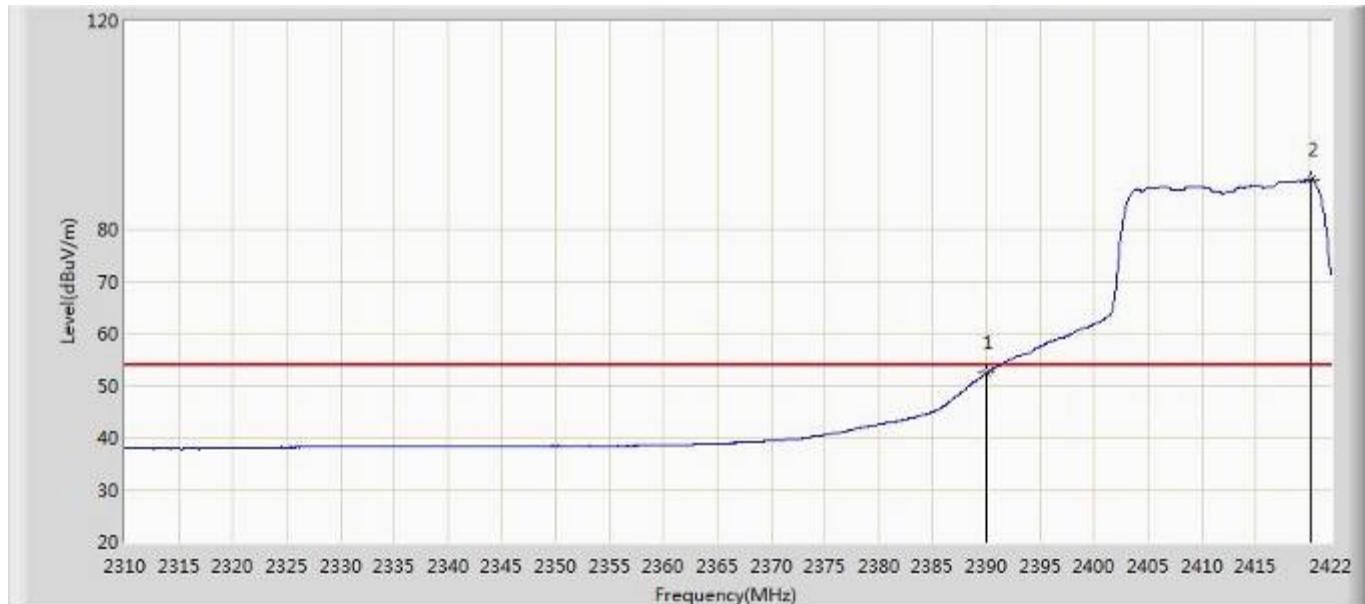
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	Factor (dB)	Type
1		2390.000	72.954	75.195	-1.046	74.000	-2.241	PK
2	*	2405.256	99.354	101.538	N/A	N/A	-2.184	PK

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

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



Site: AC102	Time: 2017/07/18 - 19:46
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT:960P/1.3MP Fixed Wireless IP Camera	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11n(20MHz) at 2412MHz	



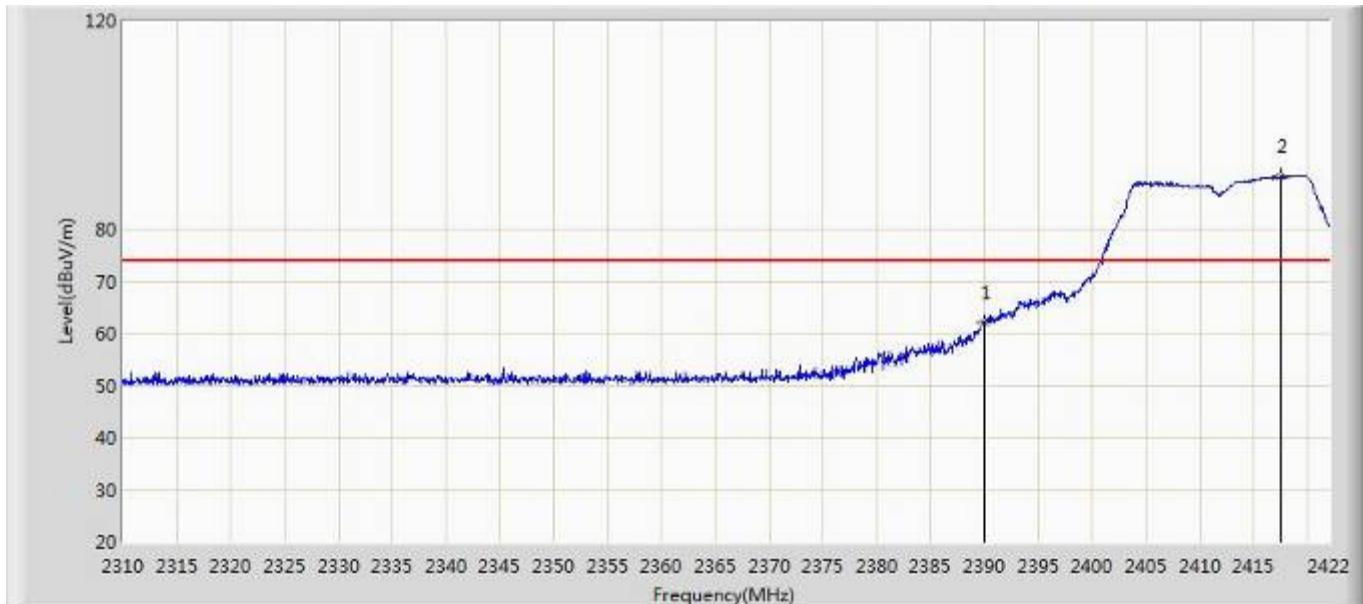
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	Factor (dB)	Type
1		2390.000	52.388	54.629	-1.612	54.000	-2.241	AV
2	*	2420.208	89.489	91.617	N/A	N/A	-2.128	AV

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

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



Site: AC102	Time: 2017/07/18 - 19:46
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT:960P/1.3MP Fixed Wireless IP Camera	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11n(20MHz) at 2412MHz	



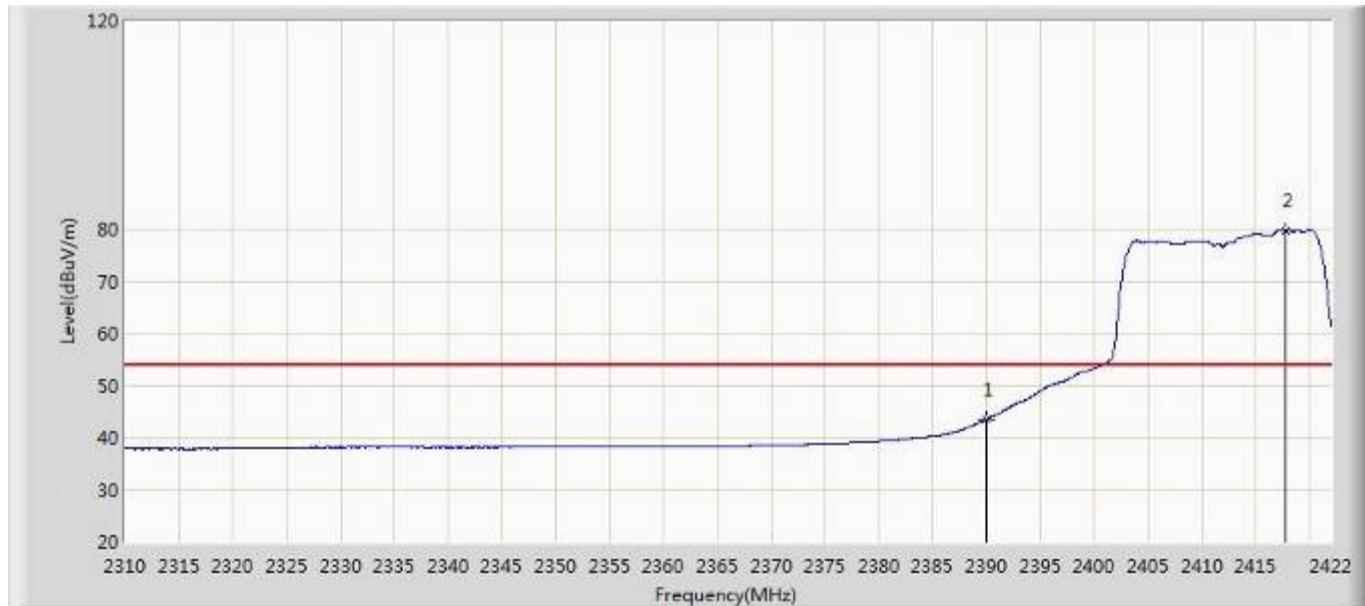
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	Factor (dB)	Type
1		2390.000	62.098	64.339	-11.902	74.000	-2.241	PK
2	*	2417.520	90.095	92.233	N/A	N/A	-2.138	PK

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

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



Site: AC102	Time: 2017/07/18 - 19:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT:960P/1.3MP Fixed Wireless IP Camera	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11n(20MHz) at 2412MHz	



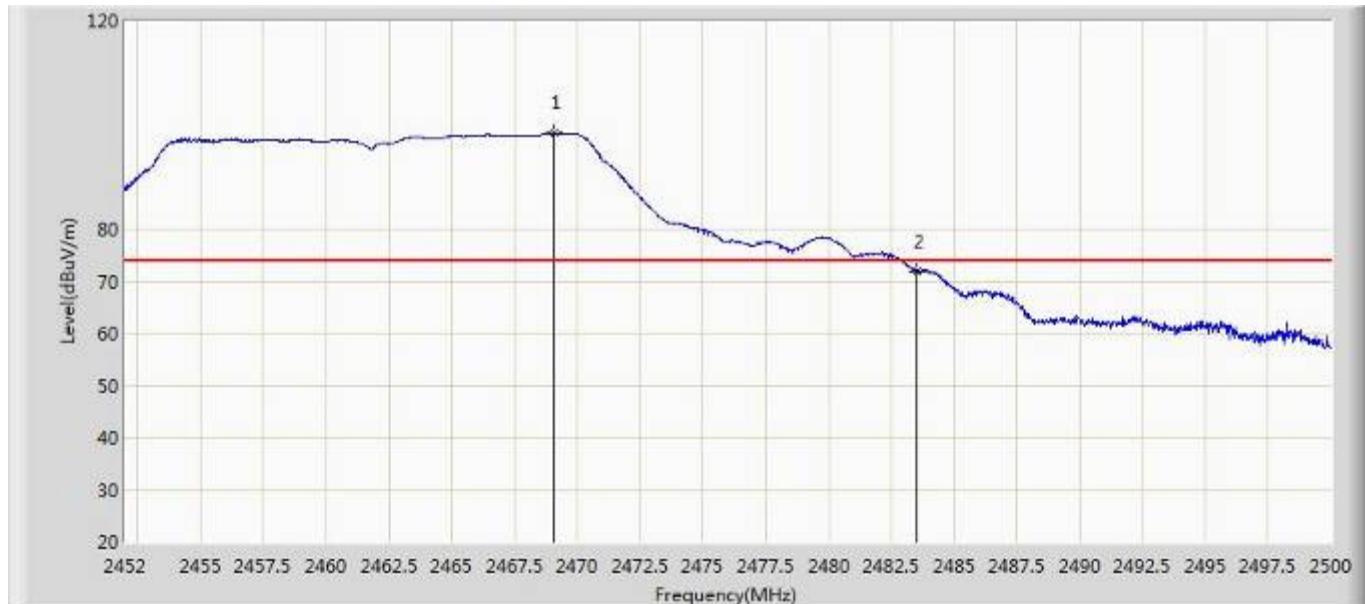
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	Factor (dB)	Type
1		2390.000	43.490	45.731	-10.510	54.000	-2.241	AV
2	*	2417.800	79.789	81.926	N/A	N/A	-2.137	AV

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

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



Site: AC102	Time: 2017/07/18 - 19:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT:960P/1.3MP Fixed Wireless IP Camera	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11n(20MHz) at 2462MHz	



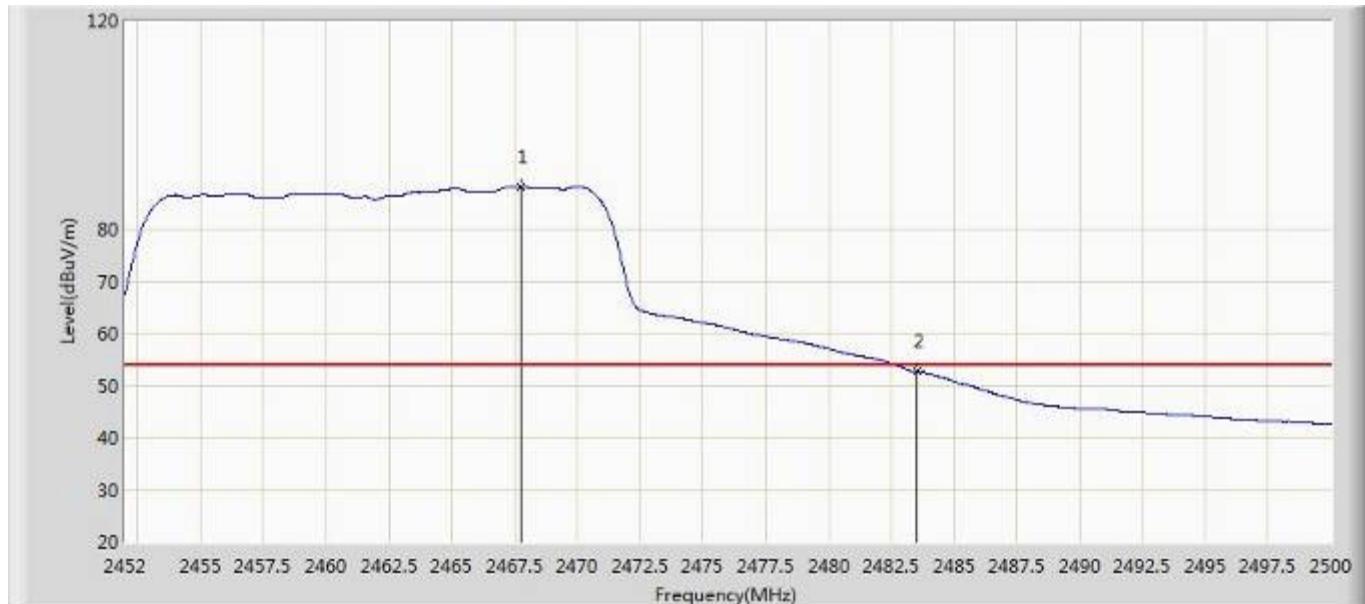
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	Factor (dB)	Type
1	*	2469.088	98.418	100.364	N/A	N/A	-1.946	PK
2		2483.500	71.849	73.741	-2.151	74.000	-1.892	PK

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

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



Site: AC102	Time: 2017/07/18 - 19:51
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT:960P/1.3MP Fixed Wireless IP Camera	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11n(20MHz) at 2462MHz	



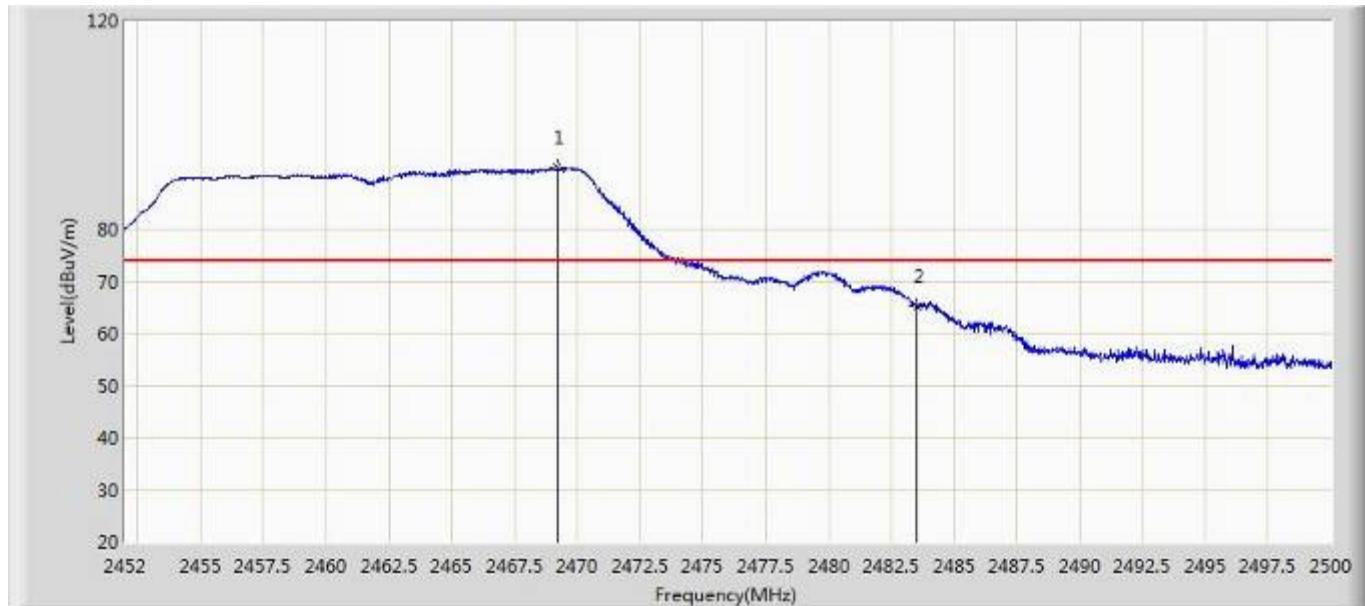
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	Factor (dB)	Type
1	*	2467.744	88.011	89.962	N/A	N/A	-1.951	AV
2		2483.500	52.659	54.551	-1.341	54.000	-1.892	AV

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

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



Site: AC102	Time: 2017/07/18 - 19:51
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT:960P/1.3MP Fixed Wireless IP Camera	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11n(20MHz) at 2462MHz	



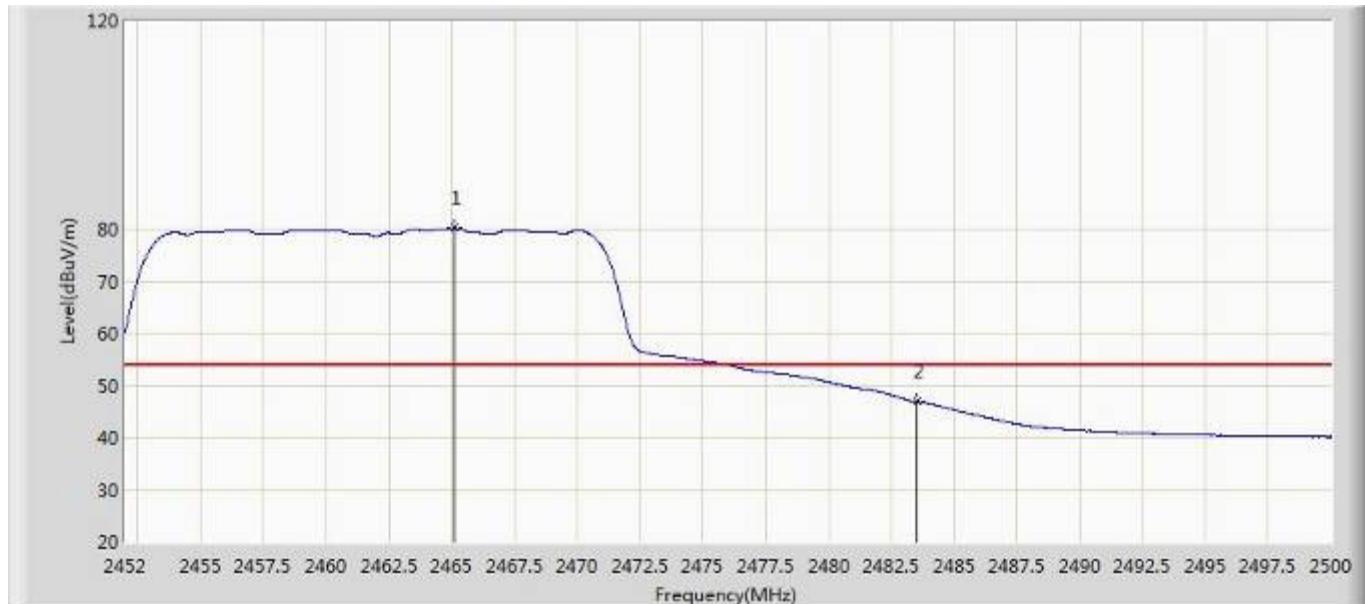
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	Factor (dB)	Type
1	*	2469.208	91.741	93.686	N/A	N/A	-1.945	PK
		2483.500	65.341	67.233	-8.659	74.000	-1.892	PK

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

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



Site: AC102	Time: 2017/07/18 - 19:52
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT:960P/1.3MP Fixed Wireless IP Camera	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11n(20MHz) at 2462MHz	



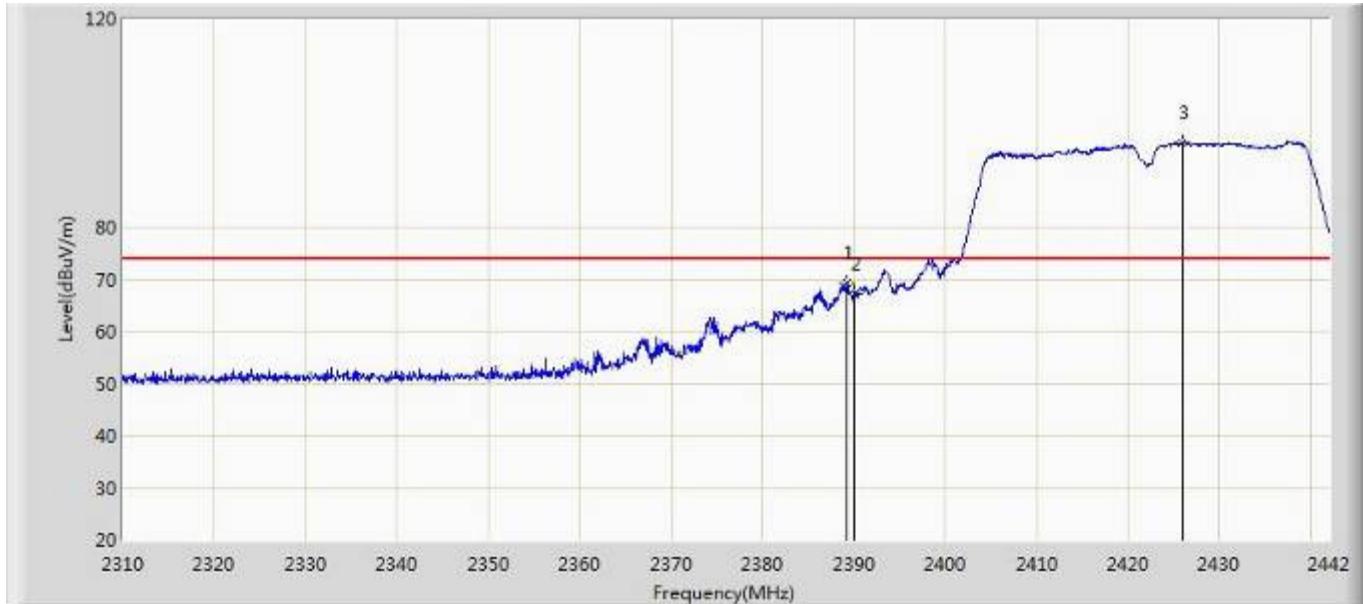
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	Factor (dB)	Type
1	*	2465.128	80.152	82.112	N/A	N/A	-1.960	AV
2		2483.500	46.872	48.764	-7.128	54.000	-1.892	AV

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

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



Site: AC102	Time: 2017/07/18 - 19:53
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT:960P/1.3MP Fixed Wireless IP Camera	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11n(40MHz) at 2422MHz	



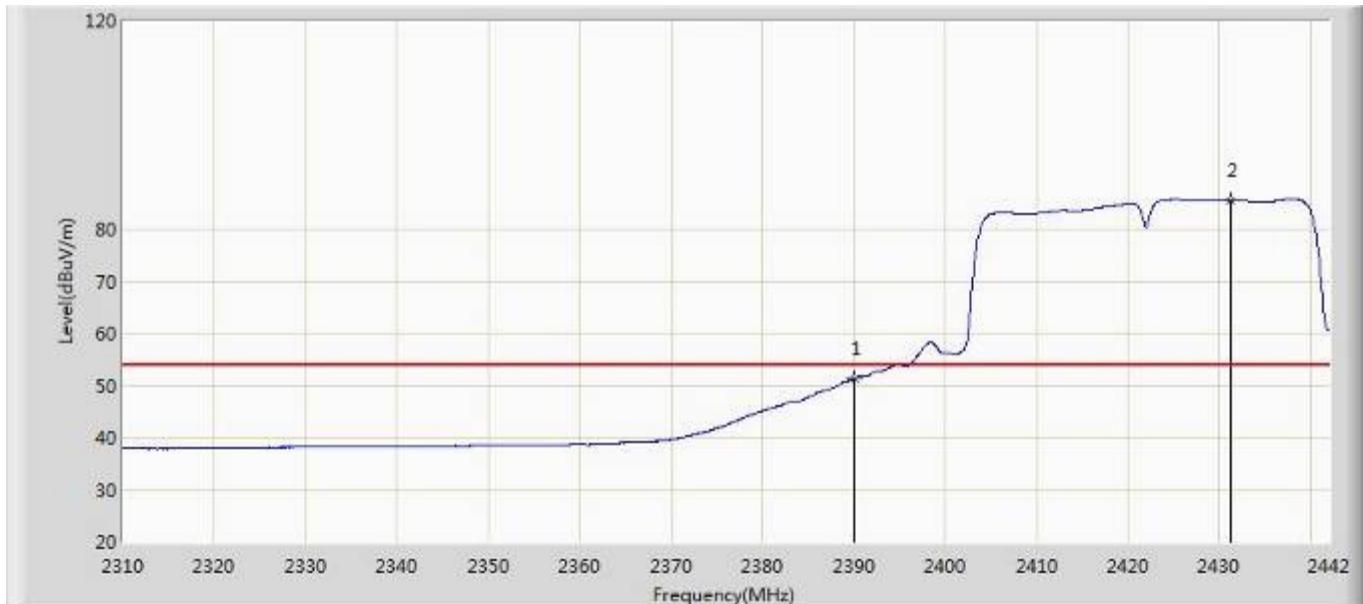
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	Factor (dB)	Type
1		2389.200	69.283	71.527	-4.717	74.000	-2.244	PK
2		2390.000	67.263	69.504	-6.737	74.000	-2.241	PK
3	*	2426.028	96.272	98.378	N/A	N/A	-2.106	PK

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

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



Site: AC102	Time: 2017/07/18 - 19:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT:960P/1.3MP Fixed Wireless IP Camera	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11n(40MHz) at 2422MHz	



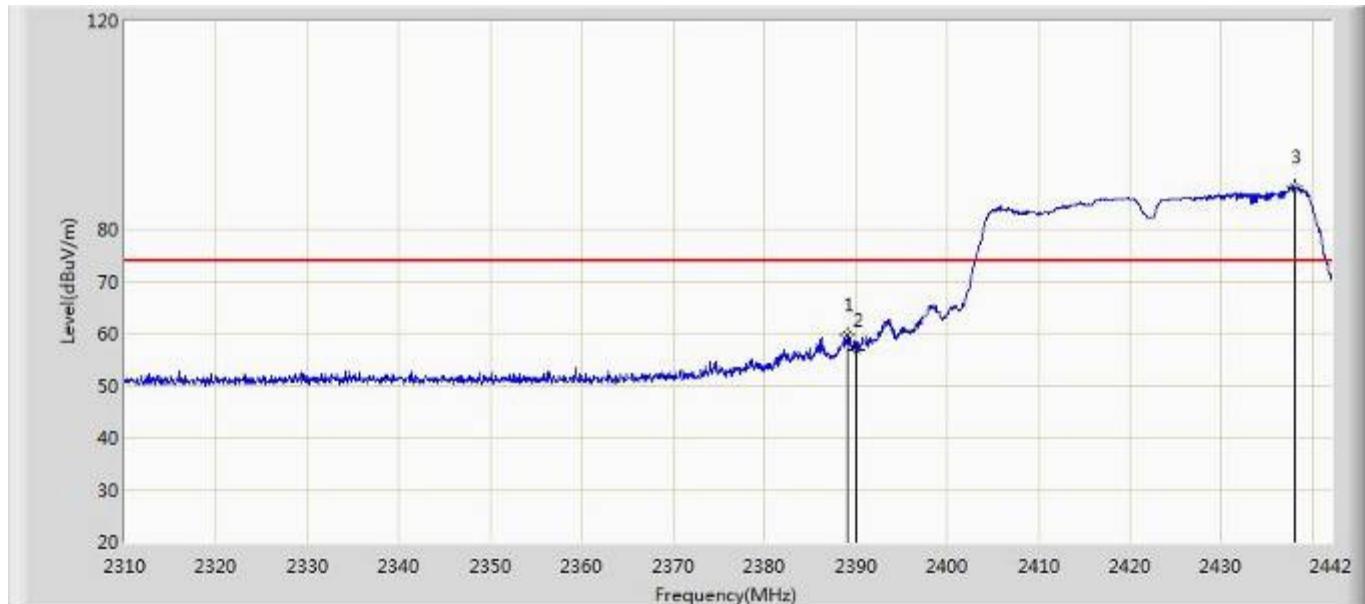
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	Factor (dB)	Type
1		2390.000	51.281	53.522	-2.719	54.000	-2.241	AV
2	*	2431.176	85.630	87.717	N/A	N/A	-2.087	AV

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

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



Site: AC102	Time: 2017/07/18 - 19:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT:960P/1.3MP Fixed Wireless IP Camera	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11n(40MHz) at 2422MHz	



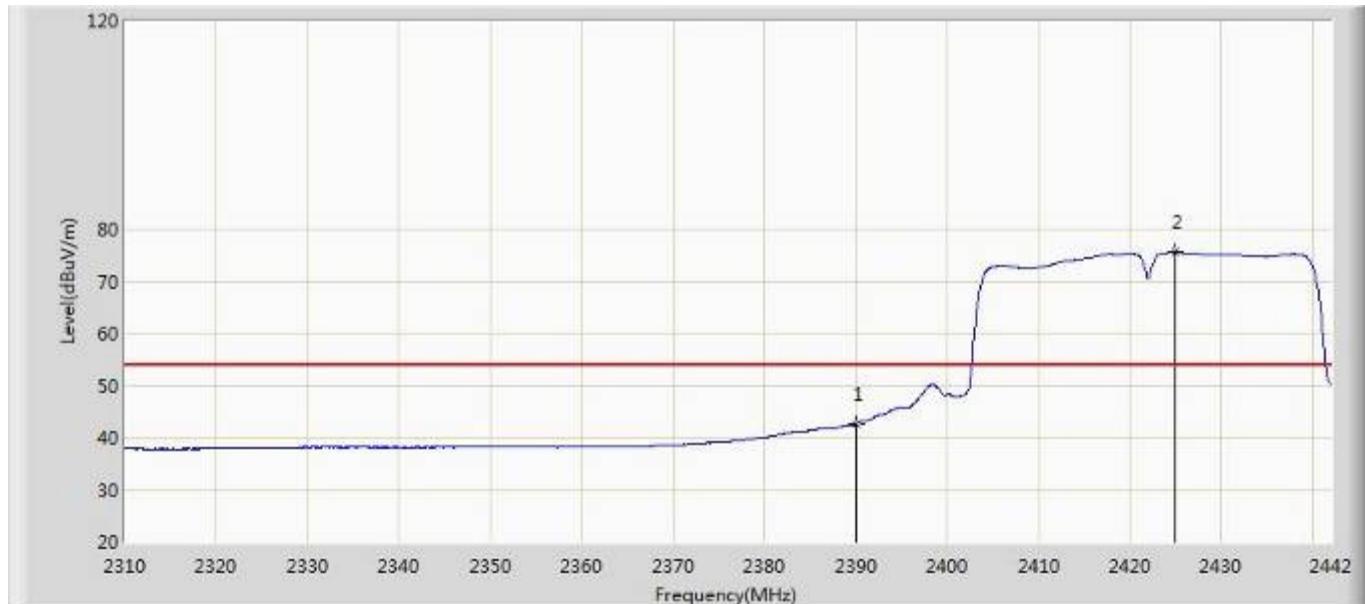
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2389.134	59.588	61.832	-14.412	74.000	-2.244	PK
2		2390.000	56.701	58.942	-17.299	74.000	-2.241	PK
3	*	2438.106	88.017	90.079	N/A	N/A	-2.062	PK

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

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



Site: AC102	Time: 2017/07/18 - 19:57
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT:960P/1.3MP Fixed Wireless IP Camera	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11n(40MHz) at 2422MHz	



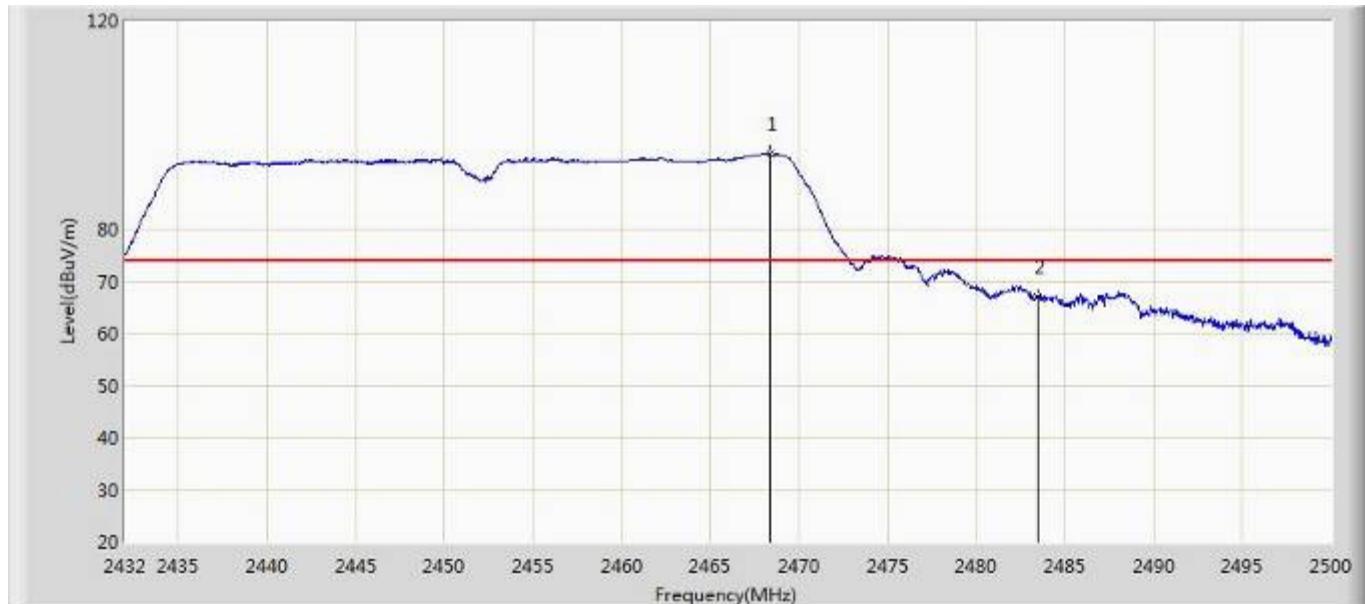
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	Factor (dB)	Type
1		2390.000	42.657	44.898	-11.343	54.000	-2.241	AV
2	*	2424.972	75.606	77.716	N/A	N/A	-2.110	AV

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

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



Site: AC102	Time: 2017/07/18 - 19:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT:960P/1.3MP Fixed Wireless IP Camera	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11n(40MHz) at 2452MHz	



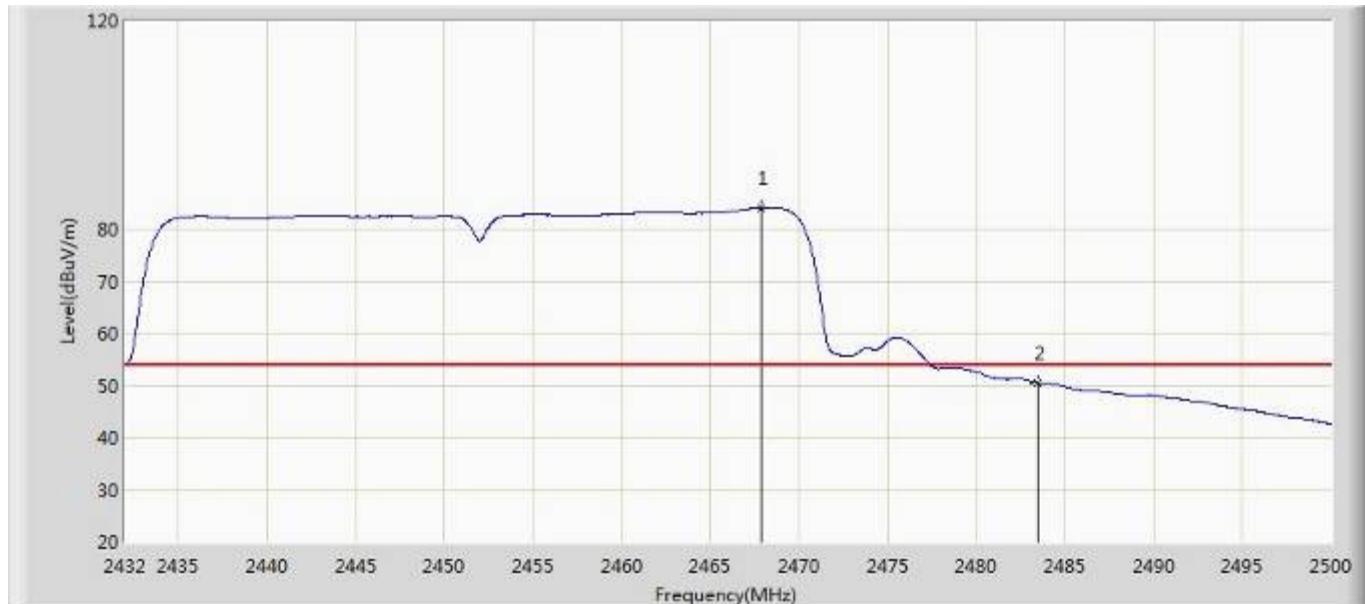
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	Factor (dB)	Type
1	*	2468.346	94.394	96.342	N/A	N/A	-1.948	PK
2		2483.500	67.078	68.970	-6.922	74.000	-1.892	PK

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

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



Site: AC102	Time: 2017/07/18 - 20:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Horizontal
EUT:960P/1.3MP Fixed Wireless IP Camera	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11n(40MHz) at 2452MHz	



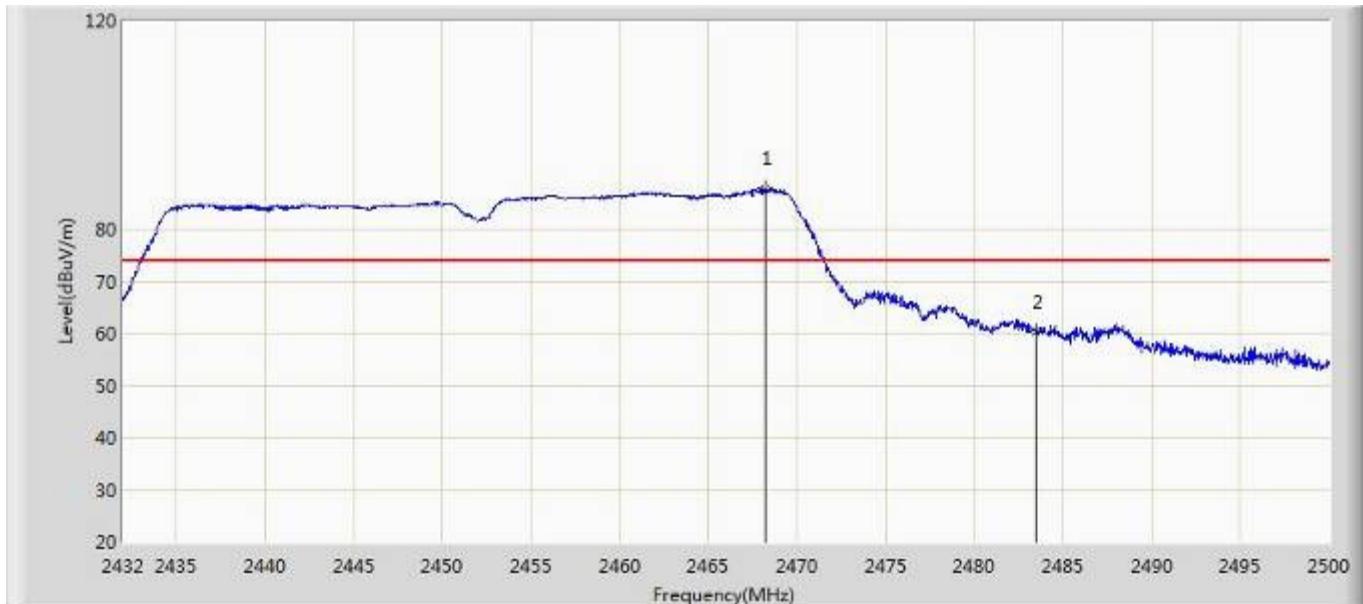
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	Factor (dB)	Type
1	*	2467.836	84.132	86.082	N/A	N/A	-1.950	AV
2		2483.500	50.568	52.460	-3.432	54.000	-1.892	AV

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

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



Site: AC102	Time: 2017/07/18 - 20:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT:960P/1.3MP Fixed Wireless IP Camera	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11n(40MHz) at 2452MHz	



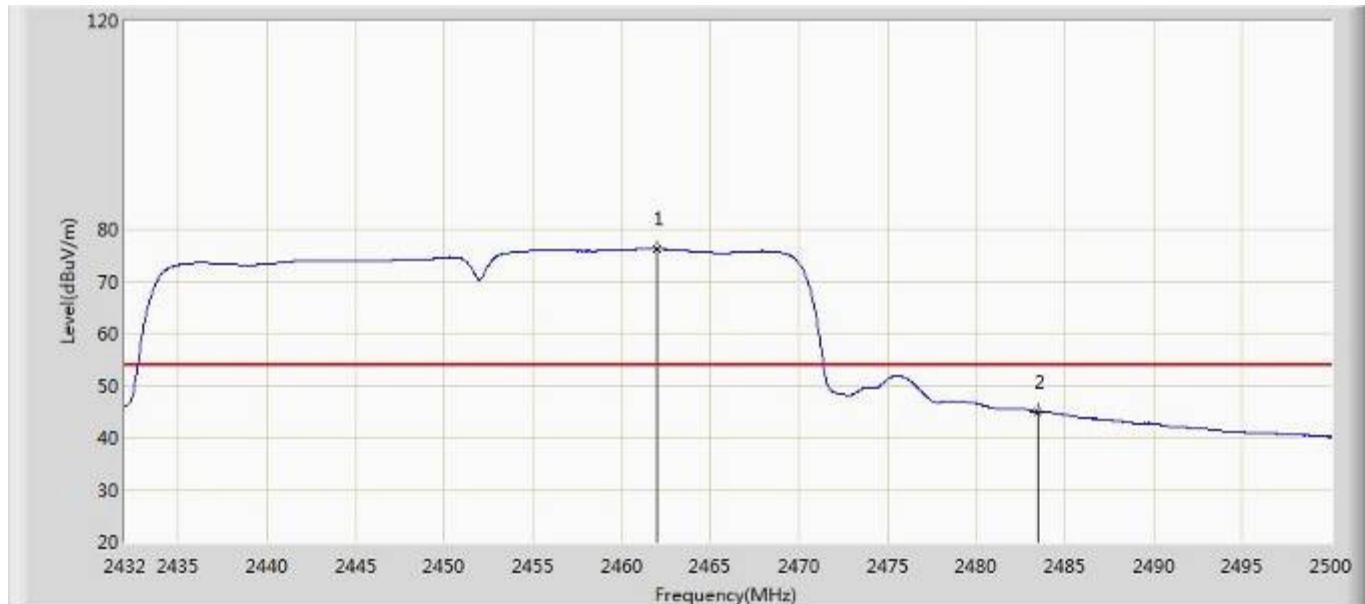
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	Factor (dB)	Type
1	*	2468.244	87.870	89.819	N/A	N/A	-1.949	PK
2		2483.500	60.226	62.118	-13.774	74.000	-1.892	PK

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

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



Site: AC102	Time: 2017/07/18 - 20:03
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: N/A	Polarity: Vertical
EUT:960P/1.3MP Fixed Wireless IP Camera	Power: AC 120V/60Hz
Note: Mode:Transmit 802.11n(40MHz) at 2452MHz	



No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	Factor (dB)	Type
1	*	2461.988	76.148	78.120	N/A	N/A	-1.972	AV
2		2483.500	45.010	46.902	-8.990	54.000	-1.892	AV

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

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

The End