

FCC Report (WIFI)

Product Name : IPTV Set-top box
Trade mark : Infomir
Model No. : MAG425A
Extension Model : IM4410; IM4410 VI; IM4410 VO; MAG424;
MAG424 VI; MAG424 VO; MAG424A;
MAG424A VI; MAG424A VO IM4410w3;
IM4410w3 VI; IM4410w3 VO; MAG424Aw3;
MAG424Aw3 VI; MAG424Aw3 VO;
MAG424w3; MAG424w3 VI; MAG424w3 VO
FCC ID : 2AUIR-IM010BXXX1
Report Number : BLA-EMC-201909-A0402
Date of sample receipt : 2019/08/21
Date of Test : 2020/09/10-2020/11/16
Date of Issue : 2020/11/16
Test standard : FCC CFR Title 47 Part 15 Subpart C
Section 15.247
Test result : PASS

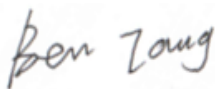
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Review by:



Approved by:



Date: 2020/11/16



2 Version

Version No.	Date	Description
00	2020/11/16	Original

BlueAsia

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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(3)	Pass
Channel Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247(d)	Pass
Spurious Emission	15.205/15.209	Pass

Remark: Test according to ANSI C63.10:2013.

Pass: The EUT complies with the essential requirements in the standard.

N/A: Not applicable.

Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz	$\pm 4.34\text{dB}$	(1)
Radiated Emission	30MHz ~ 1000MHz	$\pm 4.24\text{dB}$	(1)
Radiated Emission	1GHz ~ 26.5GHz	$\pm 4.68\text{dB}$	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	$\pm 3.45\text{dB}$	(1)

Note (1): The measurement uncertainty is for coverage factor of $k=2$ and a level of confidence of 95%.

5 General Information

5.1 General Description of EUT

Product Name:	IPTV Set-top box
Model No.:	MAG425A
Serial No.:	N/A
Sample(s) Status	Engineer sample
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(H20)) 2422MHz~2452MHz (802.11n(H40))
Channel numbers:	802.11b/802.11g /802.11n(HT20): 11; 802.11n(H40): 7
Channel separation:	5MHz
Modulation technology:	802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n(H20)/ 802.11n(H40) Orthogonal Frequency Division Multiplexing (OFDM)
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps
Data speed (IEEE 802.11n):	Up to 300 Mbps
Antenna Type:	Internal Antenna
Antenna gain:	2.66dBi(declare by applicant)
Power supply:	DC 12V
Remark:The Antenna Gain is supplied by the customer.BlueAsia is not responsible for this data	

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Test channel	Frequency (MHz)
	802.11b/802.11g/802.11n(HT20)
Lowest channel	2412MHz
Middle channel	2437MHz
Highest channel	2462MHz
Test channel	Frequency (MHz)
	802.11n(HT40)
Lowest channel	2422MHz
Middle channel	2437MHz
Highest channel	2452MHz

5.2 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode
<i>Remark: During the test, the dutycycle >98%, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.</i>	

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:				
Pre-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.				
Mode	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)
Data rate	1Mbps	6Mbps	6.5Mbps	13.5Mbps

5.3 Description of Support Units

Manufacturer	Description	Model	Serial Number
Lenovo	Notebook computer	E470C	PF-10FB5C

5.4 Test Facility

<p>The test facility is recognized, certified, or accredited by the following organizations:</p> <ul style="list-style-type: none"> • FCC — Designation No.: CN1252 BlueAsia of Technical Services(Shenzhen) Co., Ltd has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Designation CN1252. • ISED — CAB identifier No.: CN0028 BlueAsia of Technical Services(Shenzhen) Co., Ltd has been registered by Certification and Engineering Bureau of ISED for radio equipment testing with CAB identifier CN0028

5.5 Test Location

All tests were performed at:
<p>All tests were performed at: BlueAsia of Technical Services(Shenzhen) Co., Ltd. IOT Test Centre of BlueAsia No. 448 Bulong Road, Bantian Street, Longgang District, Shenzhen, China Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673 No tests were sub-contracted.</p>

6 Test Instruments list

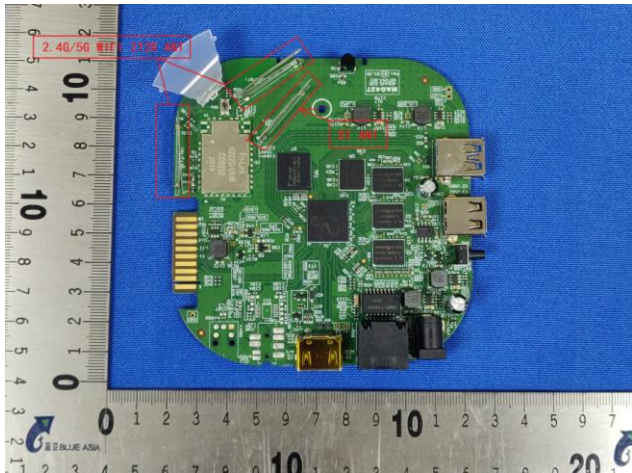
Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m SAC	SKET	9m*6m*6m	966	06-10-2018	06-09-2023
2	Broadband Antenna	SCHWARZBECK	VULB9168	00836 P:00227	07-14-2019	07-13-2021
3	Horn Antenna	SCHWARZBECK	9120D	01892 P:00331	07-14-2019	07-13-2021
4	EMI Test Software	EZ	EZ	N/A	N/A	N/A
5	Pre-amplifier	SKET	N/A	N/A	7/4/2020	7/3/2021
6	Spectrum analyzer	Rohde & Schwarz	FSP40	100817	7/4/2020	7/3/2021
7	EMI Test Receiver	Rohde & Schwarz	ESR7	101199	4/20/2020	4/19/2021
8	Controller	SKET	N/A	N/A	N/A	N/A
9	Vector Signal Generator	Agilent	E4438C	MY4509258 2	05-24-2020	05-23-2021
10	Signal Generator	Agilent	E8257D	MY4432025 0	05-24-2020	05-23-2021
11	Coaxial Cable	BlueAsia	BLA-XC-02	N/A	N/A	N/A
12	Coaxial Cable	BlueAsia	BLA-XC-03	N/A	N/A	N/A
13	Coaxial Cable	BlueAsia	BLA-XC-01	N/A	N/A	N/A

Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	EMI Test Receiver	Rohde & Schwarz	ESPI3	101082	4/20/2020	4/19/2021
2	LISN	AT	AT166-2	AKK180 6000003	12/17/2019	12/16/2020
3	LISN	Rohde & Schwarz	ENV216	3560.6550.15	7/4/2020	7/3/2021
4	EMI Test Software	EZ	EZ	N/A	N/A	N/A
5	Temperature Humidity Chamber	Mingle	TH101B	N/A	07-19-2020	07-18-2021
6	Coaxial Cable	BlueAsia	BLA-XC-05	N/A	N/A	N/A

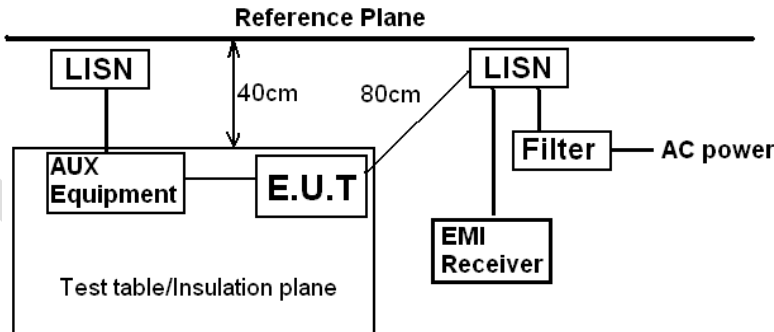
RF Conducted Test:						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Spectrum Analyzer	Agilent	N9030A	MY50510123	12/17/2019	12/16/2020
2	Spectrum analyzer	Rohde & Schwarz	FSP40	100817	7/4/2020	7/3/2021
3	Vector Signal Generator	Agilent	E4438C	MY45092582	05-24-2020	05-23-2021
4	Signal Generator	Agilent	E8257D	MY44320250	05-24-2020	05-23-2021
5	Power Sensor	D.A.R.E	RPR3006W	17I00015SNO 27	05-24-2020	05-23-2021
6	Power Sensor	D.A.R.E	RPR3006W	17I00015SNO 28	05-24-2020	05-23-2021
7	DC Power Supply	LODESTAR	LP305DE	N/A	07-19-2020	07-18-2021
8	Temperature Humidity Chamber	Mingle	TH101B	N/A	07-19-2020	07-18-2021

7 Test results and Measurement Data

7.1 Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
<p>15.203 requirement:</p> <p>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> <p>15.247(c) (1)(i) requirement:</p> <p>(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.</p>	
EUT Antenna:	
The antenna is External Antenna, the best case gain of the antenna is 2.66dBi	
	

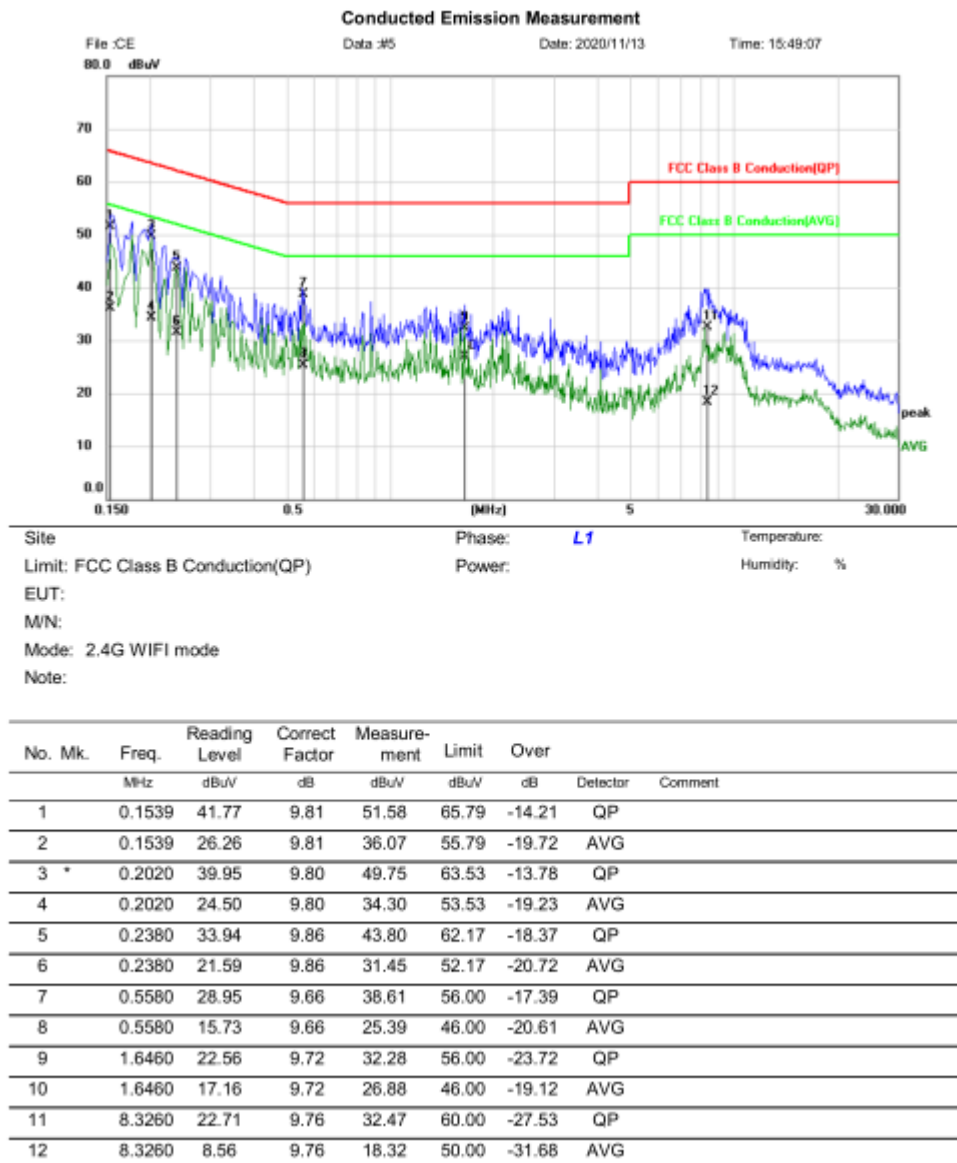
7.2 Conducted Emission

Test Requirement:	FCC Part15 C Section 15.207		
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150kHz to 30MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9kHz, VBW=30kHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test procedure	<ol style="list-style-type: none"> The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.), which provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement. 		
Test setup:	 <p>Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>		
Test Instruments:	Refer to section 6.0 for details		
Test mode:	Refer to section 5.2 for details		
Test results:	Pass		

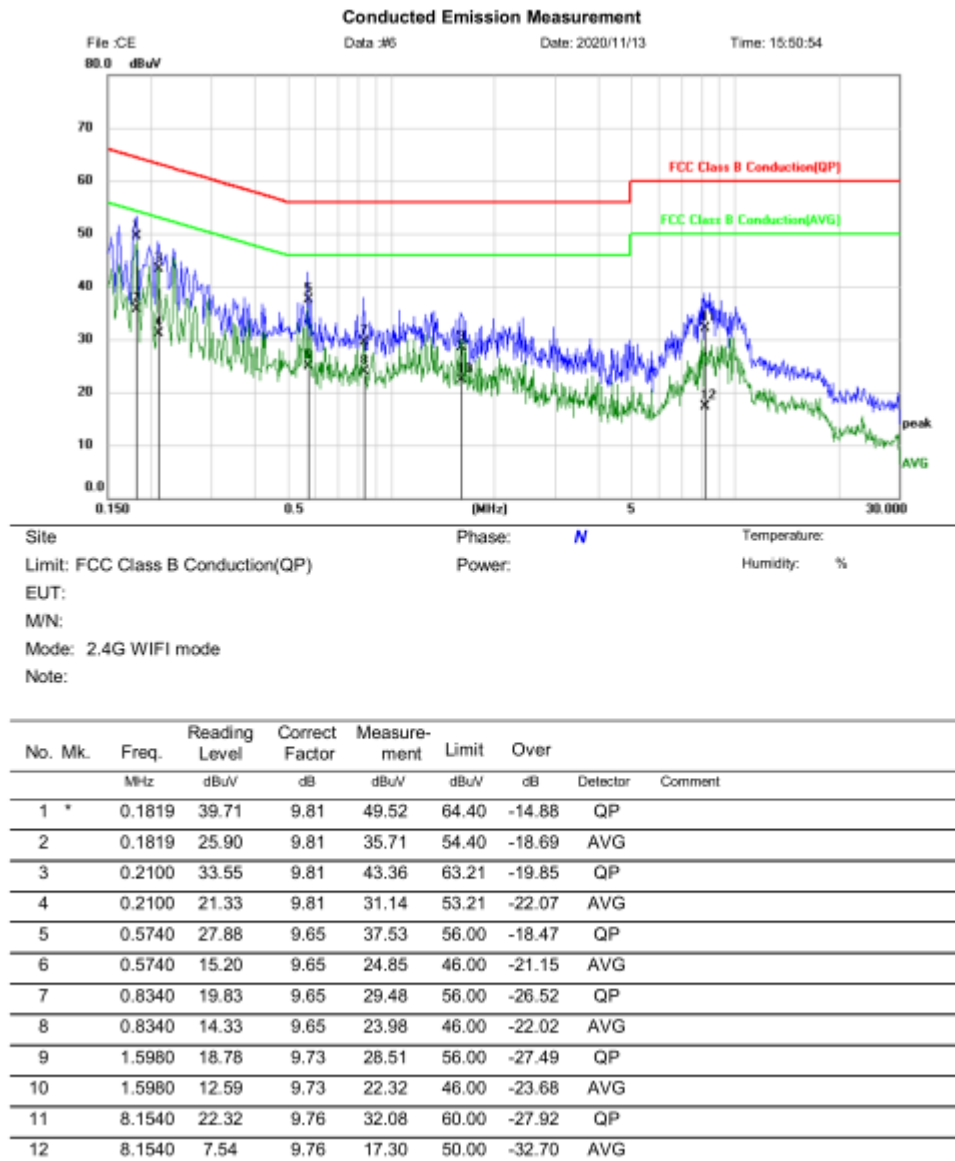
Measurement data

Line:

EUT:	IPTV Set-top box	Probe:	L1
Model:	MAG425A	Power Source:	AC120V/60Hz
Mode:	Wifi mode	Test by:	Eason
Temp./Hum.(%H):	26°C/60%RH		



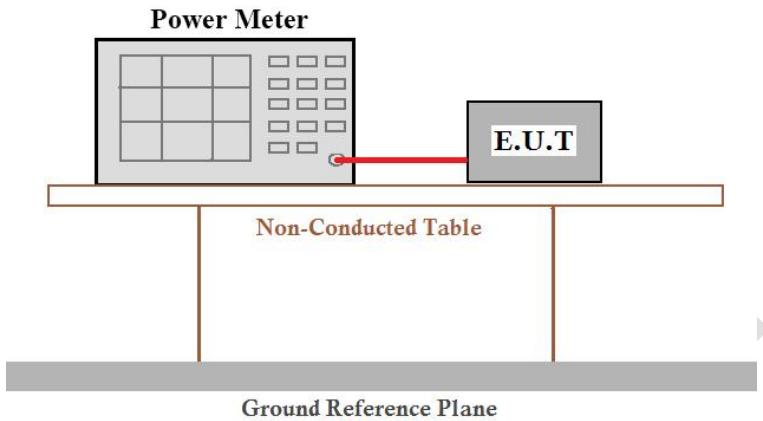
EUT:	IPTV Set-top box	Probe:	N
Model:	MAG425A	Power Source:	AC120V/60Hz
Mode:	Wifi mode	Test by:	Eason
Temp./Hum.(%RH):	26°C/60%RH		



Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
 3. *Final Level = Receiver Read level + Correct factor*
 4. *Correct factor = LISN Factor + Cable Loss*
- If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.*

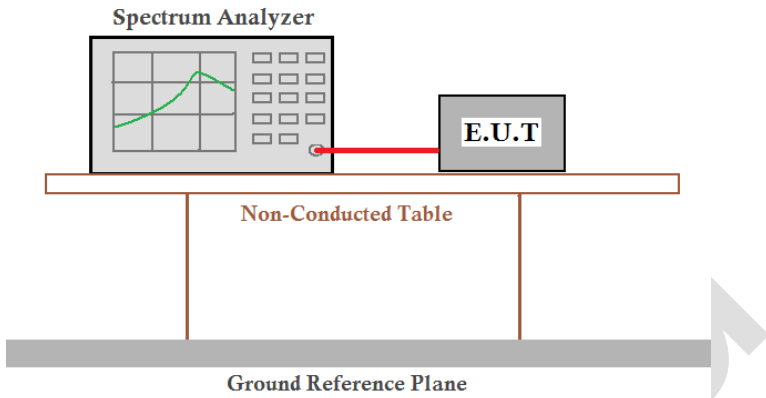
7.3 Conducted Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	KDB558074 D01 DTS Meas Guidance V05
Limit:	30dBm
Test setup:	 <p>The diagram illustrates the test setup. A 'Power Meter' is connected to an 'E.U.T.' (Equipment Under Test) by a red cable. Both components are positioned on a 'Non-Conducted Table'. This table is supported by two vertical legs and rests on a 'Ground Reference Plane', which is represented by a thick grey horizontal bar at the bottom of the setup.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data

Please Refer To Appendix: AppendixC For Details

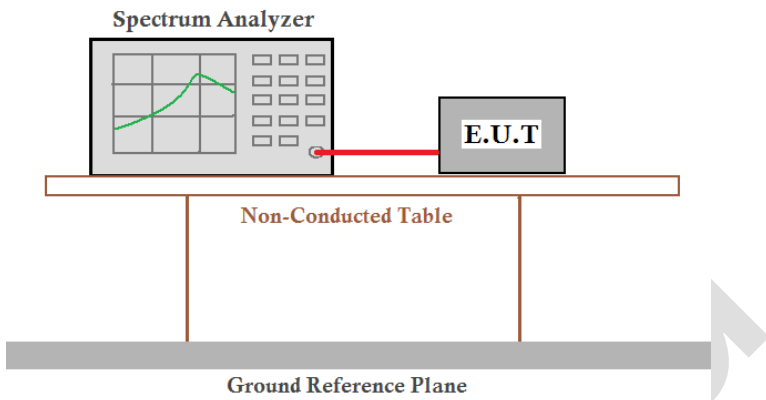
7.4 Channel Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB558074 D01 DTS Meas Guidance V05
Limit:	>500KHz
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is positioned above a Ground Reference Plane, which is indicated by a thick grey bar at the bottom of the setup area.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data

Please Refer To Appendix: AppendixA For Details

7.5 Power Spectral Density

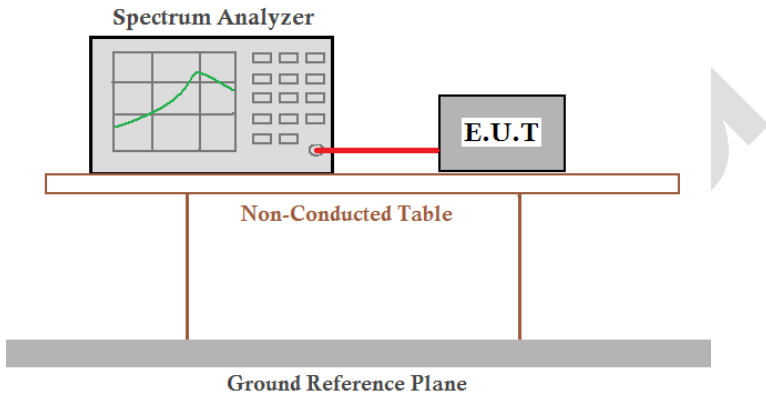
Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB558074 D01 DTS Meas Guidance V05
Limit:	8dBm/3KHz
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane, indicated by a grey bar and an arrow pointing to the right.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data

Please Refer To Appendix: AppendixD For Details

7.6 Band edges

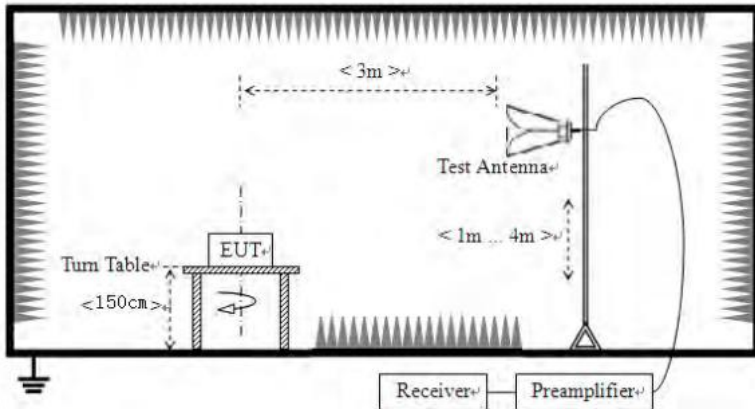
7.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074 D01 DTS Meas Guidance V05
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 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.
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T are placed on a Non-Conducted Table. The table is supported by two legs and sits on a Ground Reference Plane, which is represented by a thick grey bar at the bottom.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data

Please Refer To Appendix: AppendixE For Details

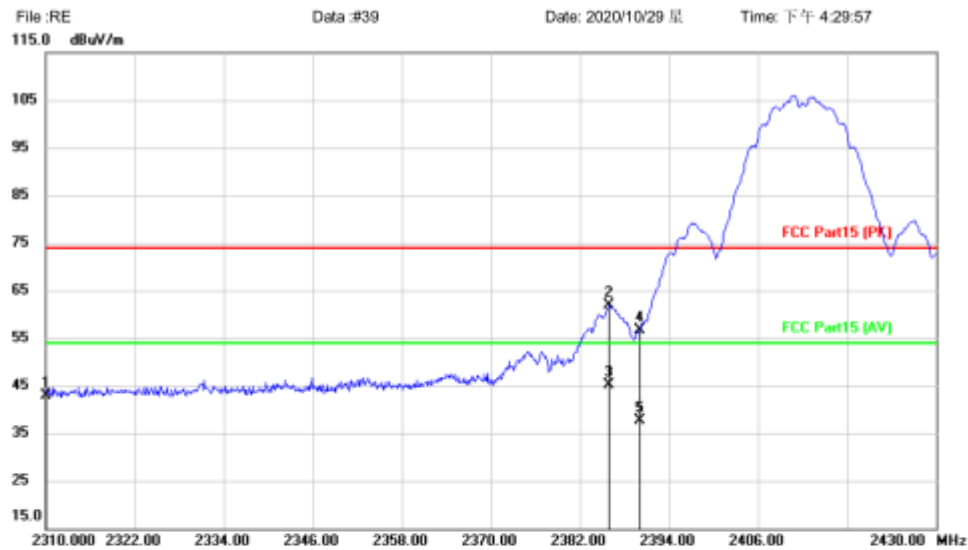
7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to 2390MHz, 2483.5MHz to 2500MHz) data was showed.				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Average	1MHz	3MHz	Average
Limit:	Frequency		Limit (dBuV/m @3m)		Value
	Above 1GHz		54.00		Average
			74.00		Peak
Test setup:					
Test Procedure:	<ol style="list-style-type: none">1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.7. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.2 for details				
Test results:	Pass				

Remark: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits

specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

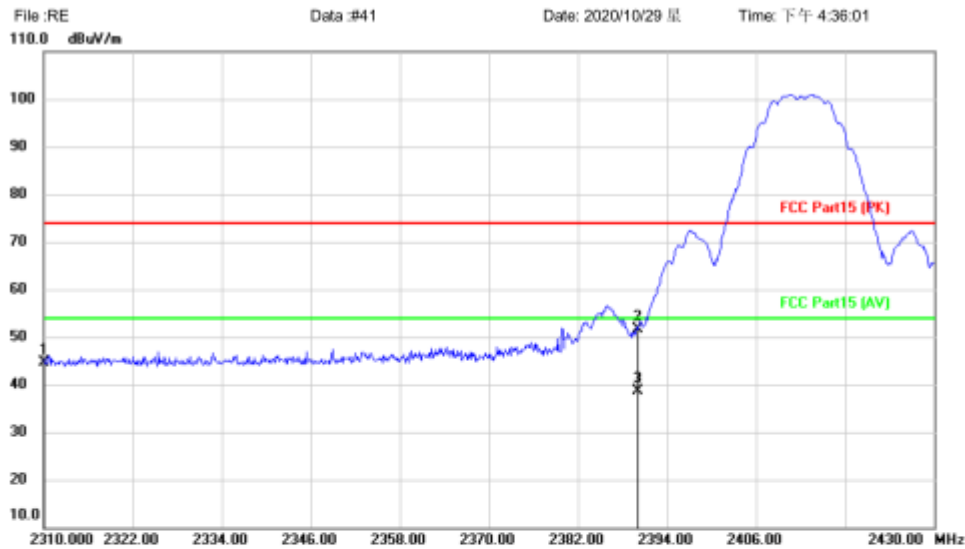
BlueAsia

Measurement data:
802.11b (worst case of ANT1)
lowest channel
Radiated Emission Measurement


Site	Polarization: Vertical	Temperature:
Limit: FCC Part15 (PK)	Power: AC120V/60Hz	Humidity: %
EUT: IPTV Set-top box	Distance: 3m	
M/N: MAG425A		
Mode: 802.11B-2412-PK		
Note: 2.4G WIFI		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		2310.000	57.20	-14.30	42.90	74.00	-31.10	peak		
2		2385.960	75.80	-13.96	61.84	74.00	-12.16	peak		
3	*	2385.960	59.19	-13.96	45.23	54.00	-8.77	AVG		
4		2390.000	70.49	-13.95	56.54	74.00	-17.46	peak		
5		2390.000	51.54	-13.95	37.59	54.00	-16.41	AVG		

Radiated Emission Measurement



Site
Limit: FCC Part15 (PK)
EUT: IPTV Set-top box
M/N: MAG425A
Mode: 802.11B-2412-PK
Note: 2.4G WIFI

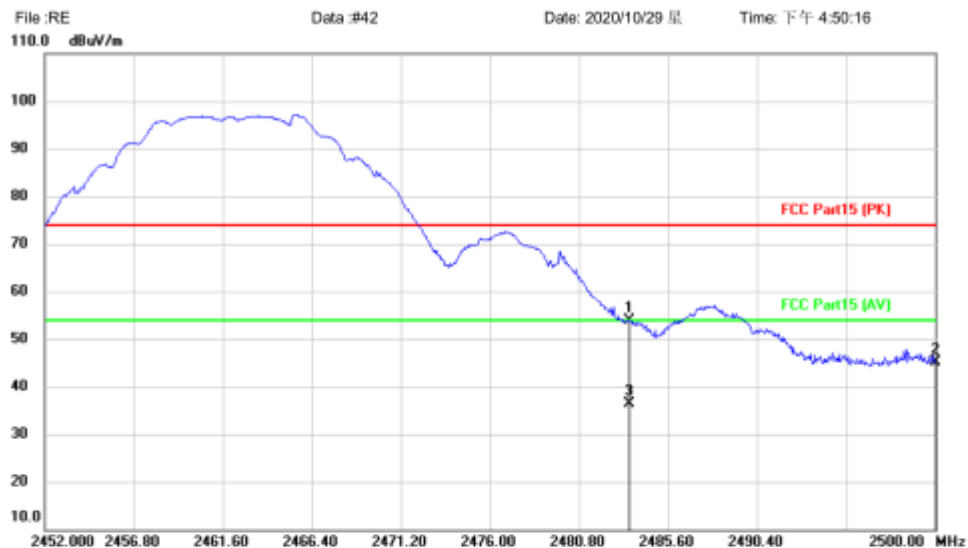
Polarization: **Horizontal**
Power: AC120V/60Hz
Distance: 3m

Temperature:
Humidity: %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		2310.000	58.57	-14.01	44.56	74.00	-29.44	peak		
2		2390.000	65.14	-13.62	51.52	74.00	-22.48	peak		
3	*	2390.000	52.13	-13.62	38.51	54.00	-15.49	AVG		

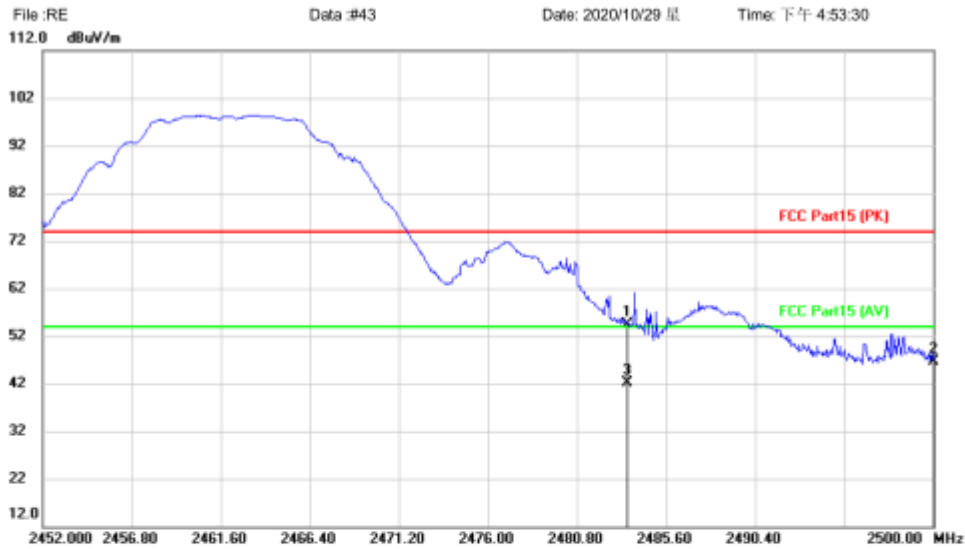
Highest channel

Radiated Emission Measurement



Site	Polarization: Vertical	Temperature:
Limit: FCC Part15 (PK)	Power: AC120V/60Hz	Humidity: %
EUT: IPTV Set-top box	Distance: 3m	
M/N: MAG425A		
Mode: 802.11B-2462-PK		
Note: 2.4G WIFI		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		2483.500	67.40	-13.50	53.90	74.00	-20.10	peak		
2		2500.000	58.45	-13.42	45.03	74.00	-28.97	peak		
3	*	2483.500	50.00	-13.50	36.50	54.00	-17.50	AVG		

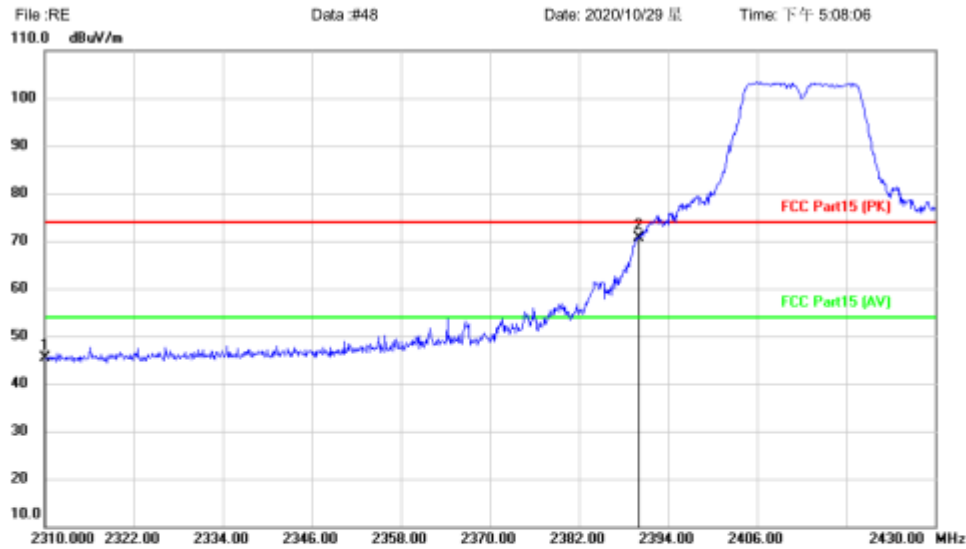
Radiated Emission Measurement


Site	Polarization: Horizontal	Temperature:
Limit: FCC Part15 (PK)	Power: AC120V/60Hz	Humidity: %
EUT: IPTV Set-top box	Distance: 3m	
M/N: MAG425A		
Mode: 802.11B-2462-PK		
Note: 2.4G WIFI		

No. Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	2483.500	67.50	-13.11	54.39	74.00	-19.61	peak		
2	2500.000	59.60	-13.02	46.58	74.00	-27.42	peak		
3 *	2483.500	55.36	-13.11	42.25	54.00	-11.75	AVG		

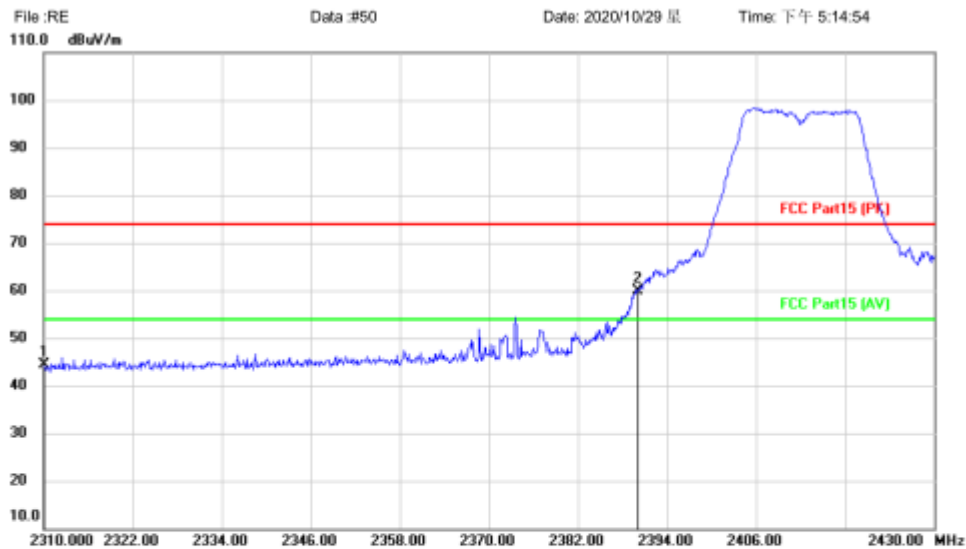
802.11G
lowest channel
Peak Value

Radiated Emission Measurement



Site Limit: FCC Part15 (PK) EUT: IPTV Set-top box M/N: MAG425A Mode: 802.11G-2412-PK Note: 2.4G WIFI	Polarization: Horizontal Power: AC120V/60Hz Distance: 3m Temperature: Humidity: %
---	--

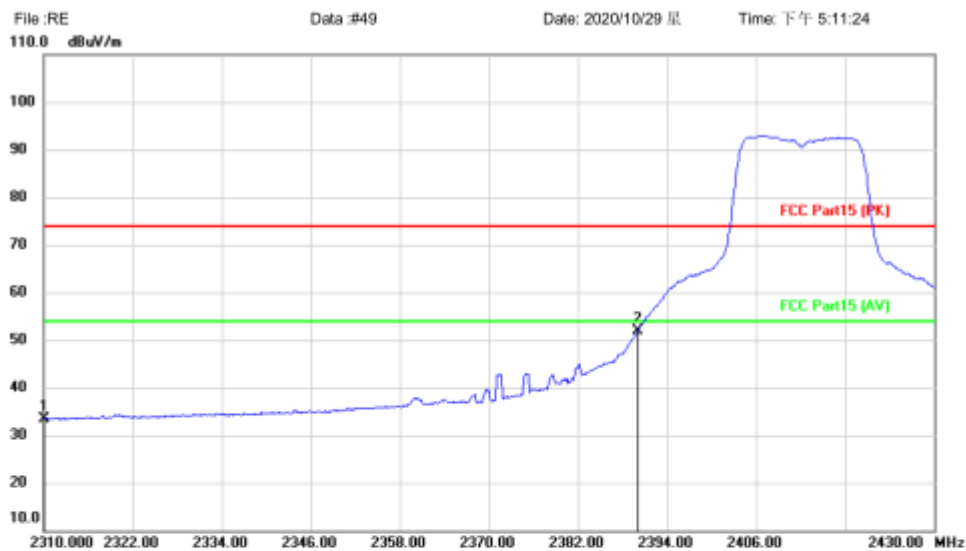
No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	2310.000	59.30	-14.01	45.29	74.00	-28.71	peak		
2 *	2390.000	84.36	-13.62	70.74	74.00	-3.26	peak		

Radiated Emission Measurement


Site	Polarization: Vertical	Temperature:
Limit: FCC Part15 (PK)	Power: AC120V/60Hz	Humidity: %
EUT: IPTV Set-top box	Distance: 3m	
M/N: MAG425A		
Mode: 802.11G-2412-PK		
Note: 2.4G WIFI		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		2310.000	58.78	-14.30	44.48	74.00	-29.52	peak		
2	*	2390.000	73.92	-13.95	59.97	74.00	-14.03	peak		

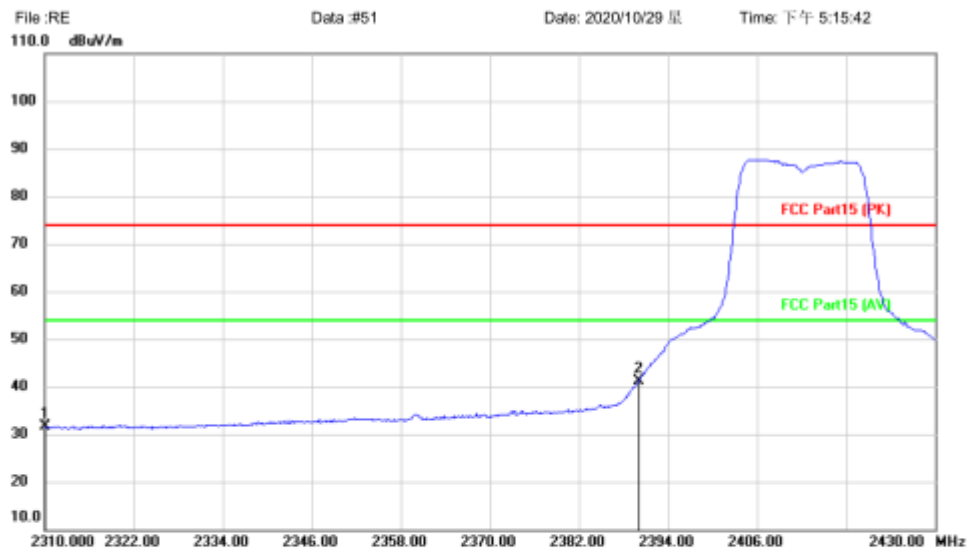
AVG Value Radiated Emission Measurement



Site	Polarization: Horizontal	Temperature:
Limit: FCC Part15 (PK)	Power: AC120V/60Hz	Humidity: %
EUT: IPTV Set-top box	Distance: 3m	
M/N: MAG425A		
Mode: 802.11G-2412-AV		
Note: 2.4G WIFI		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		2310.000	47.39	-14.01	33.38	54.00	-20.62	AVG		
2	*	2390.000	65.40	-13.62	51.78	54.00	-2.22	AVG		

Radiated Emission Measurement

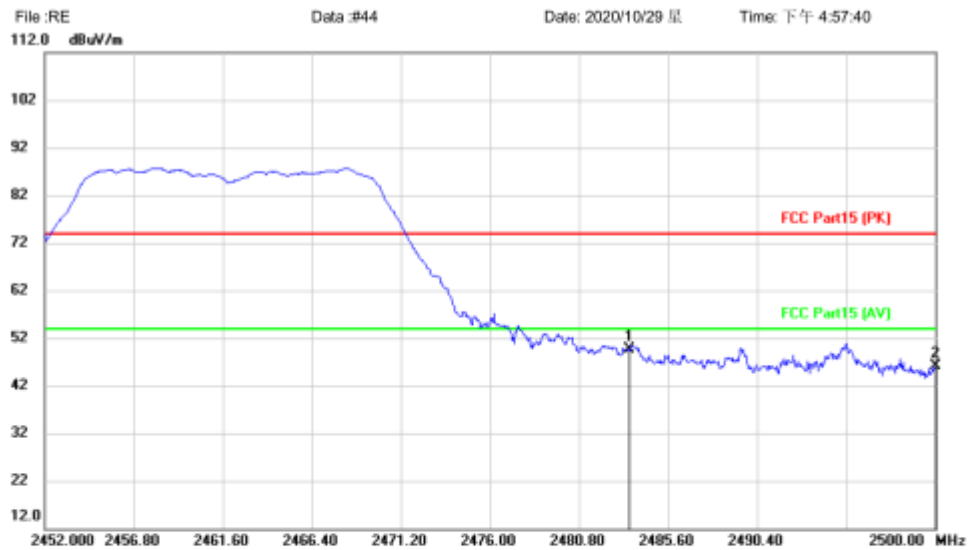


Site	Polarization: Vertical	Temperature:
Limit: FCC Part15 (PK)	Power: AC120V/60Hz	Humidity: %
EUT: IPTV Set-top box	Distance: 3m	
M/N: MAG425A		
Mode: 802.11G-2412-PK		
Note: 2.4G WIFI		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		2310.000	45.93	-14.30	31.63	54.00	-22.37	AVG		
2	*	2390.000	55.04	-13.95	41.09	54.00	-12.91	AVG		

Highest channel Peak Value

Radiated Emission Measurement

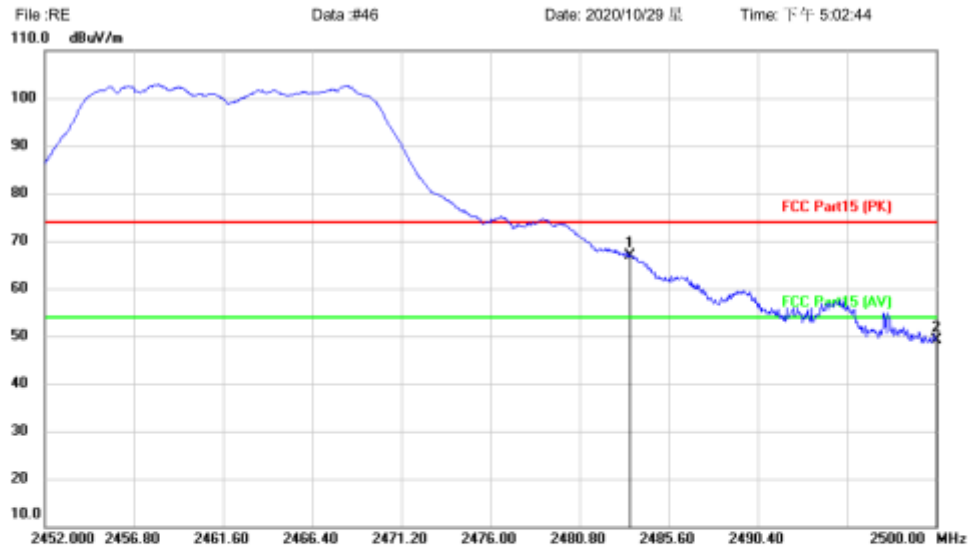


Site: Limit: FCC Part15 (PK) EUT: IPTV Set-top box M/N: MAG425A Mode: 802.11G-2462-PK Note: 2.4G WIFI

Polarization: **Vertical** Power: AC120V/60Hz Distance: 3m

Temperature: Humidity: %

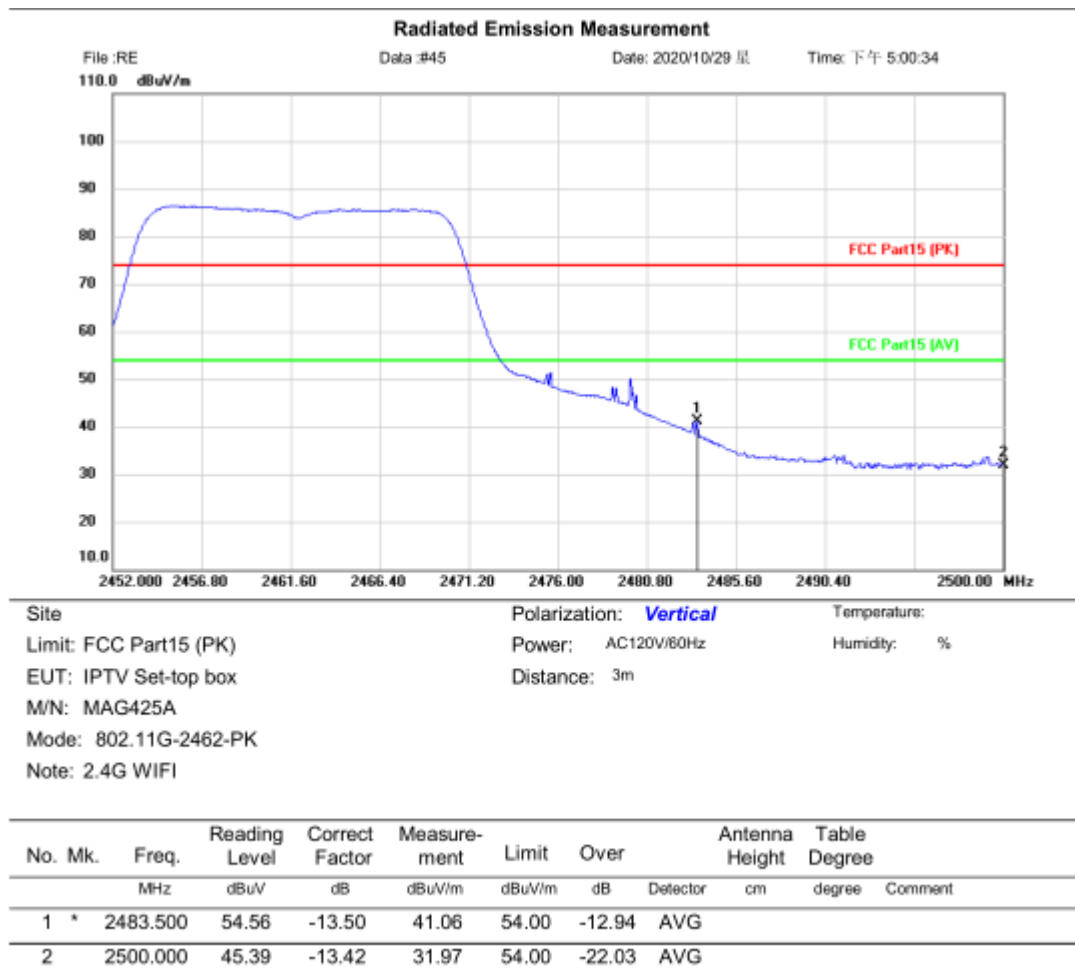
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1	*	2483.500	62.64	-13.11	49.53	74.00	-24.47	peak		
2		2500.000	59.18	-13.02	46.16	74.00	-27.84	peak		

Radiated Emission Measurement


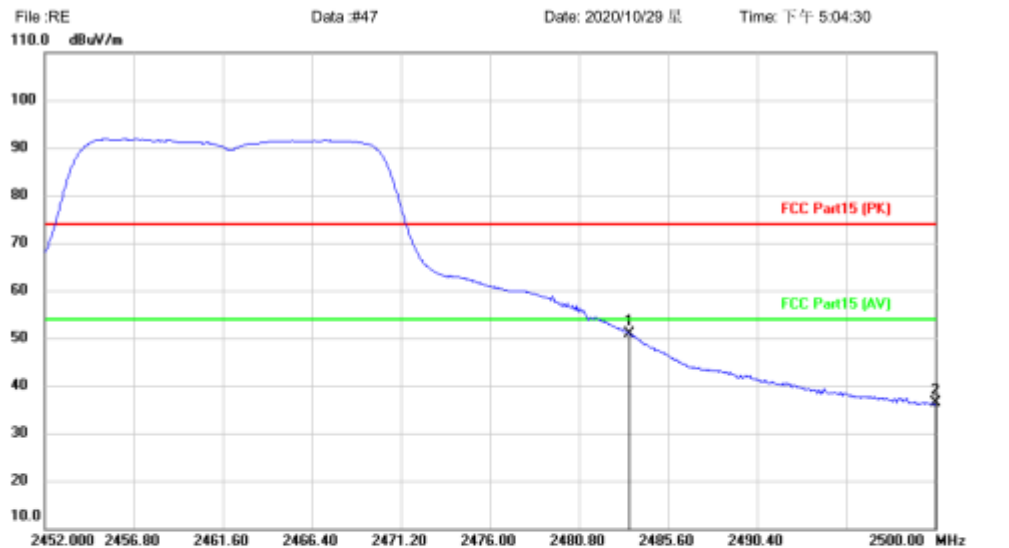
Site	Polarization: Horizontal	Temperature:
Limit: FCC Part15 (PK)	Power: AC120V/60Hz	Humidity: %
EUT: IPTV Set-top box	Distance: 3m	
M/N: MAG425A		
Mode: 802.11G-2462-PK		
Note: 2.4G WIFI		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	2483.500	79.88	-13.11	66.77	74.00	-7.23	peak		
2		2500.000	62.25	-13.02	49.23	74.00	-24.77	peak		

AVG Value



Radiated Emission Measurement

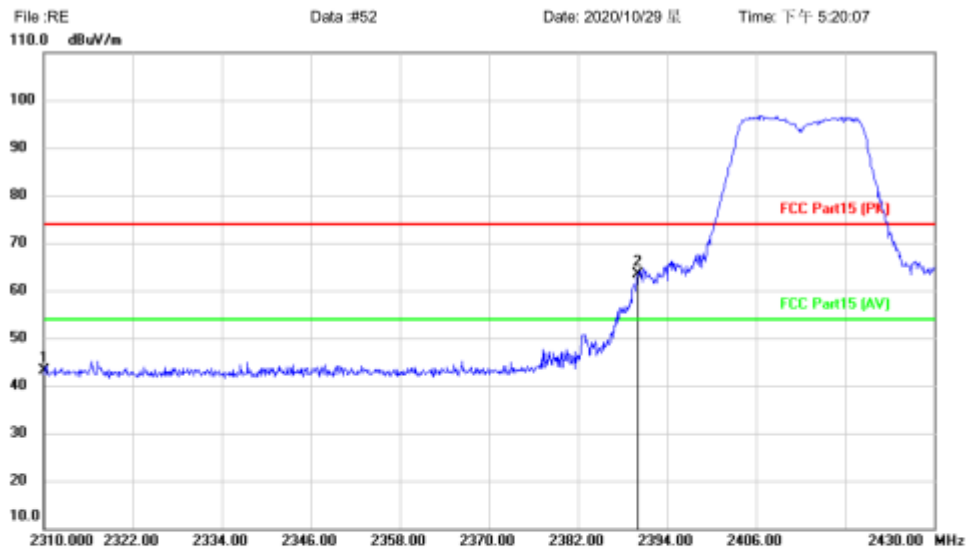


Site	Polarization: Horizontal	Temperature:
Limit: FCC Part15 (PK)	Power: AC120V/60Hz	Humidity: %
EUT: IPTV Set-top box	Distance: 3m	
M/N: MAG425A		
Mode: 802.11G-2462-PK		
Note: 2.4G WIFI		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	2483.500	63.87	-13.11	50.76	54.00	-3.24	AVG		
2		2500.000	49.30	-13.02	36.28	54.00	-17.72	AVG		

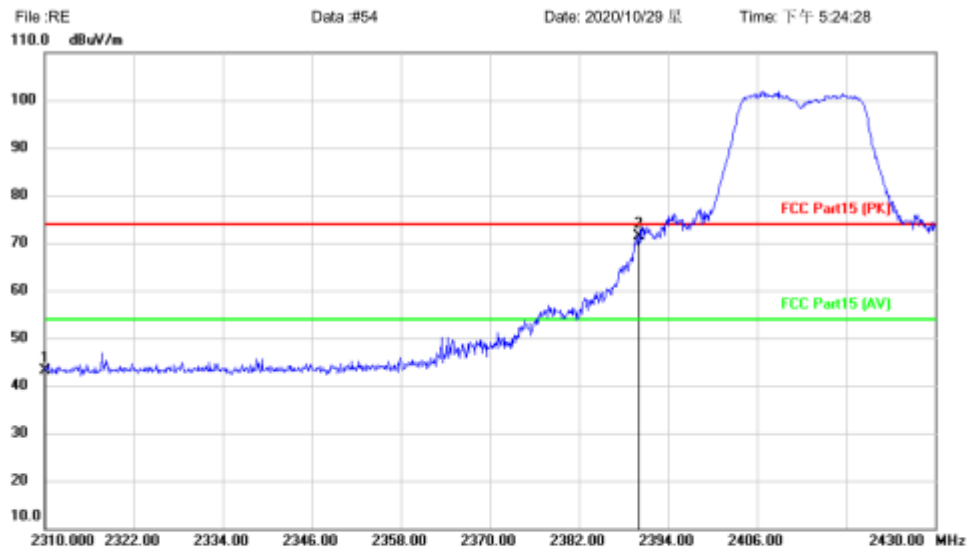
802.11N20
lowest channel
Peak Value

Radiated Emission Measurement



Site	Polarization: Vertical	Temperature:
Limit: FCC Part15 (PK)	Power: AC120V/60Hz	Humidity: %
EUT: IPTV Set-top box	Distance: 3m	
M/N: MAG425A		
Mode: 802.11N20-2412-PK		
Note: 2.4G WIFI		

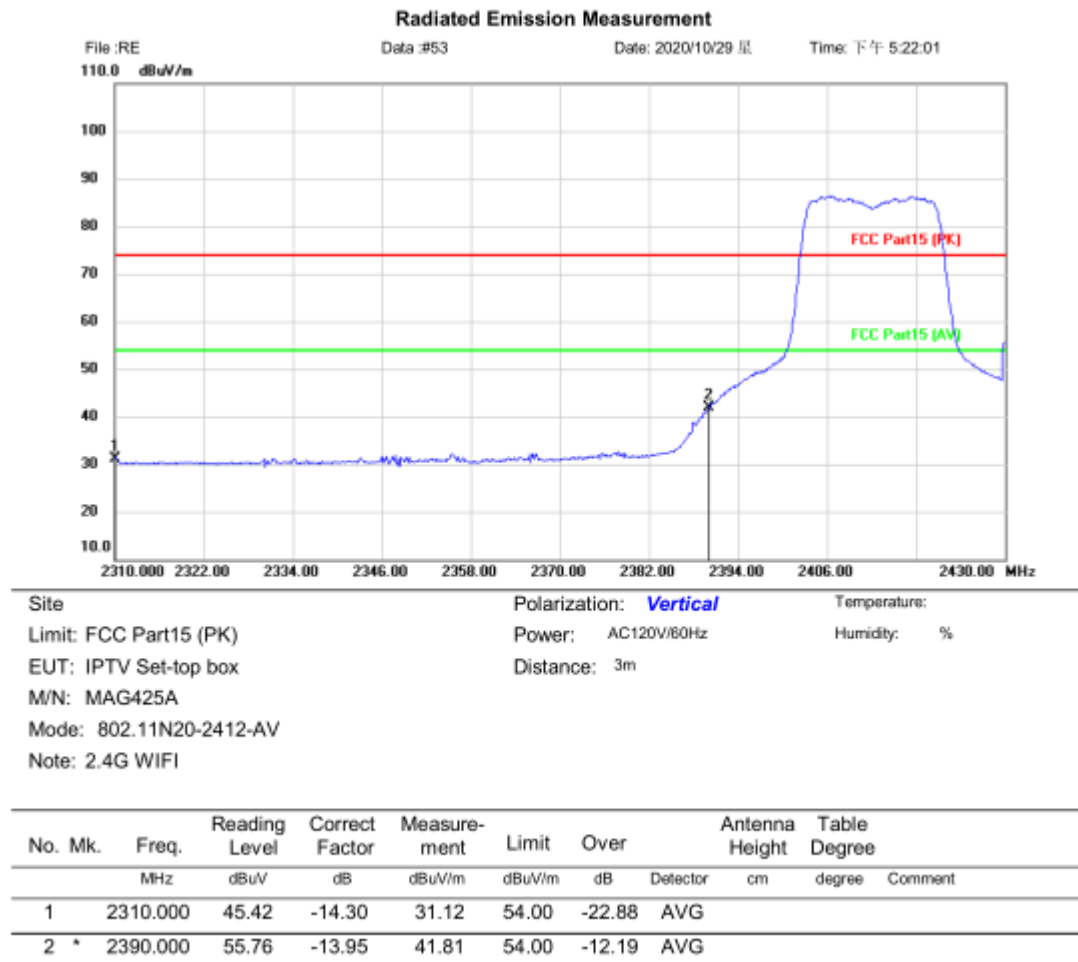
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		2310.000	57.55	-14.30	43.25	74.00	-30.75	peak		
2	*	2390.000	77.35	-13.95	63.40	74.00	-10.60	peak		

Radiated Emission Measurement


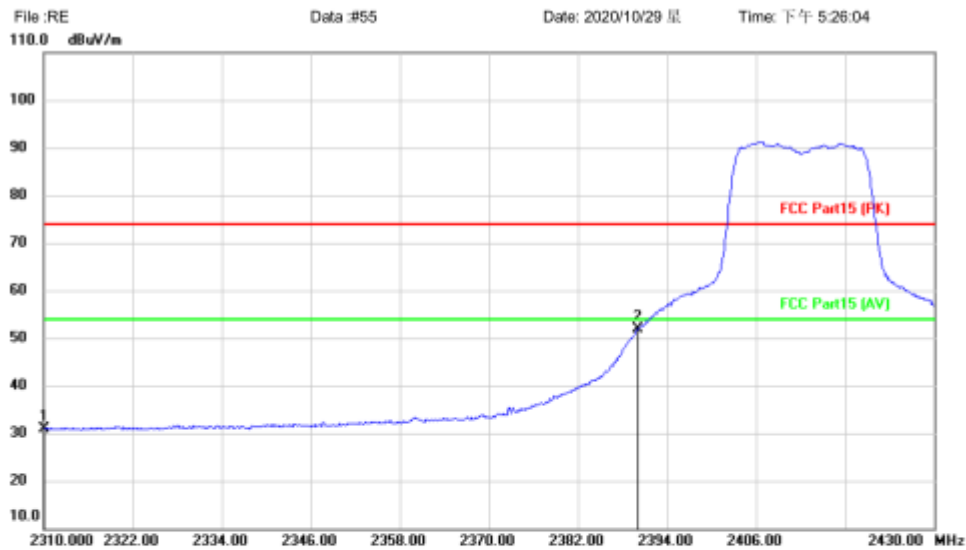
Site	Polarization: Horizontal	Temperature:
Limit: FCC Part15 (PK)	Power: AC120V/60Hz	Humidity: %
EUT: IPTV Set-top box	Distance: 3m	
M/N: MAG425A		
Mode: 802.11N20-2412-AV		
Note: 2.4G WIFI		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		2310.000	57.26	-14.01	43.25	74.00	-30.75	peak		
2	*	2390.000	85.06	-13.62	71.44	74.00	-2.56	peak		

AVG Value



Radiated Emission Measurement

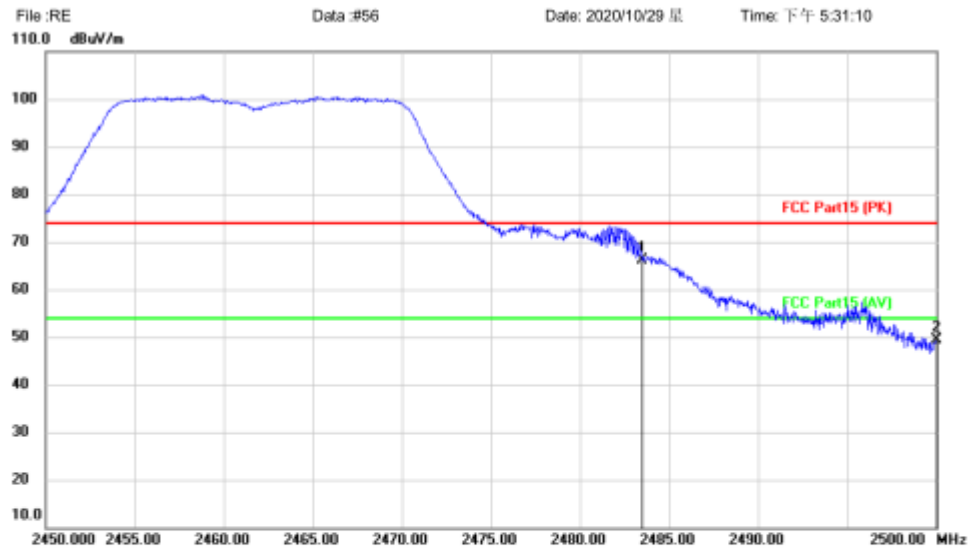


Site	Polarization: Horizontal	Temperature:
Limit: FCC Part15 (PK)	Power: AC120V/60Hz	Humidity: %
EUT: IPTV Set-top box	Distance: 3m	
M/N: MAG425A		
Mode: 802.11N20-2412-AV		
Note: 2.4G WIFI		

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table
		MHz	Level	Factor	ment			Height	Degree
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree
1		2310.000	44.93	-14.01	30.92	54.00	-23.08	AVG	
2	*	2390.000	65.58	-13.62	51.96	54.00	-2.04	AVG	

Highest channel Peak Value

Radiated Emission Measurement

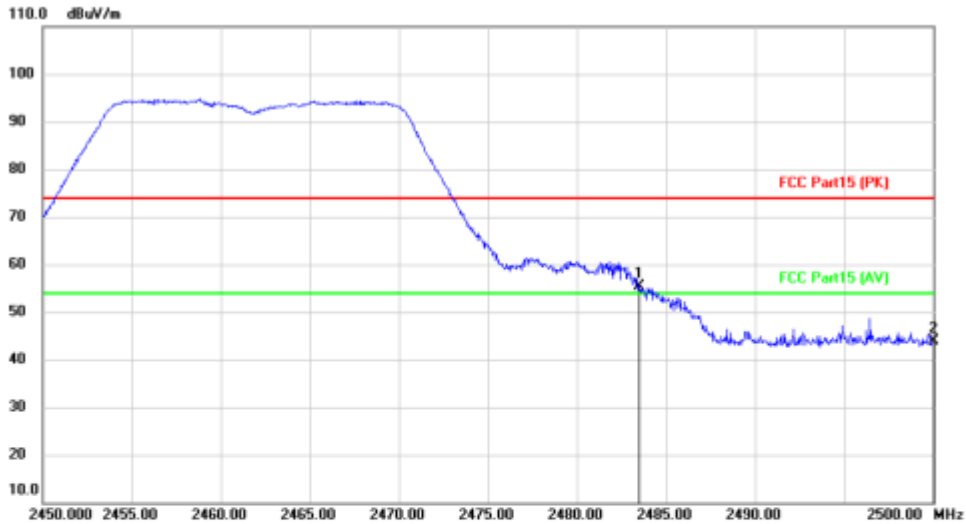


Site	Polarization: Horizontal	Temperature:
Limit: FCC Part15 (PK)	Power: AC120V/60Hz	Humidity: %
EUT: IPTV Set-top box	Distance: 3m	
M/N: MAG425A		
Mode: 802.11N20-2462-PK		
Note: 2.4G WIFI		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	2483.500	79.34	-13.11	66.23	74.00	-7.77	peak		
2		2500.000	62.29	-13.02	49.27	74.00	-24.73	peak		

Radiated Emission Measurement

File : RE Data : #58 Date: 2020/10/29 星 Time: 下午 5:36:27



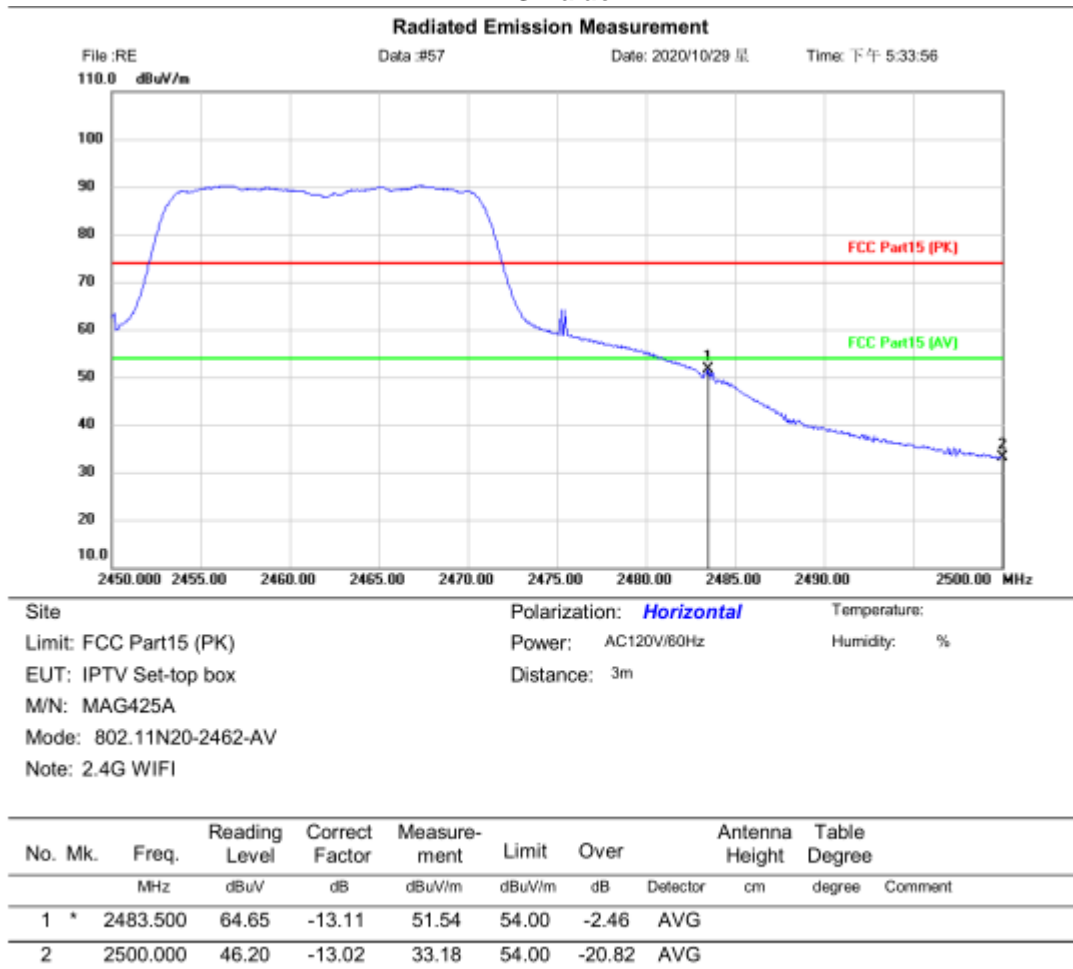
Site: Limit: FCC Part15 (PK) EUT: IPTV Set-top box M/N: MAG425A Mode: 802.11N20-2462-PK Note: 2.4G WIFI

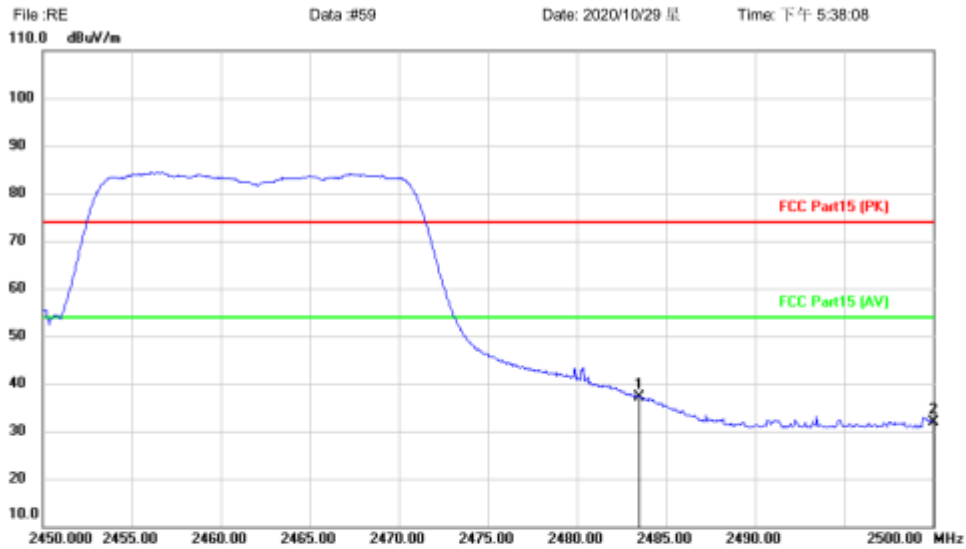
Polarization: **Vertical** Power: AC120V/60Hz Distance: 3m

Temperature: Humidity: %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	2483.500	68.78	-13.50	55.28	74.00	-18.72	peak		
2		2500.000	57.35	-13.42	43.93	74.00	-30.07	peak		

AVG Value



Radiated Emission Measurement


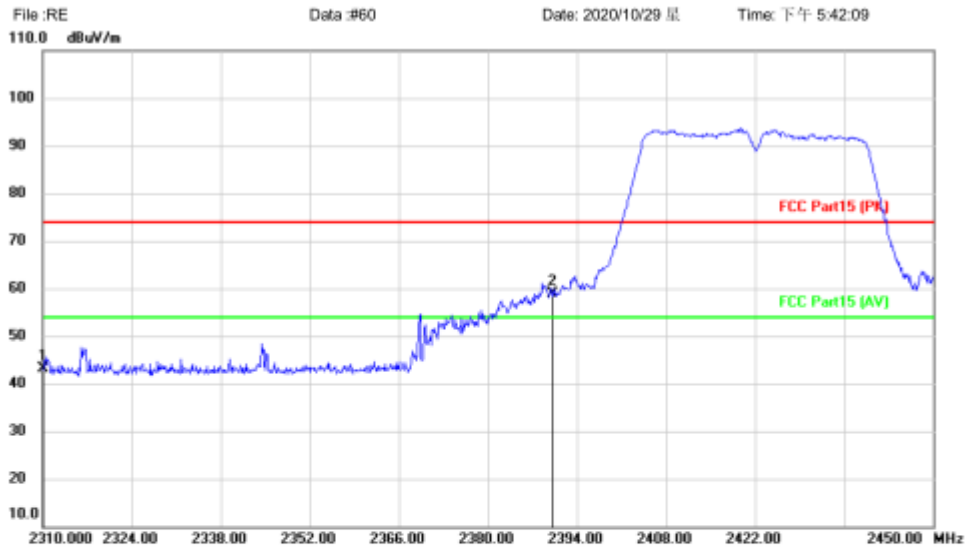
Site
Limit: FCC Part15 (PK)
EUT: IPTV Set-top box
M/N: MAG425A
Mode: 802.11N20-2462-AV
Note: 2.4G WIFI

Polarization: **Vertical** Temperature:
Power: AC120V/60Hz Humidity: %
Distance: 3m

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	2483.500	50.66	-13.50	37.16	54.00	-16.84	AVG		
2		2500.000	45.18	-13.42	31.76	54.00	-22.24	AVG		

802.11N40
lowest channel
Peak Value

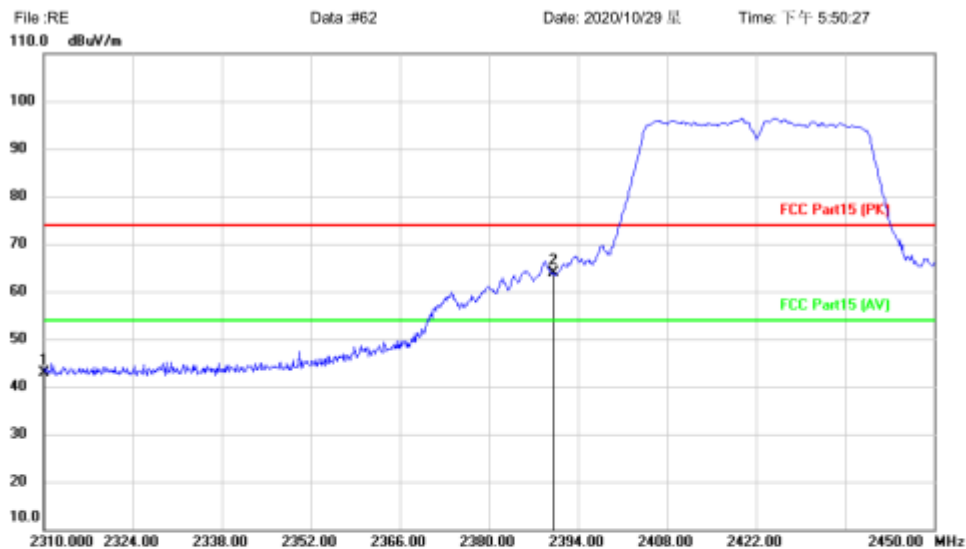
Radiated Emission Measurement



Site	Polarization: Vertical	Temperature:
Limit: FCC Part15 (PK)	Power: AC120V/60Hz	Humidity: %
EUT: IPTV Set-top box	Distance: 3m	
M/N: MAG425A		
Mode: 802.11N40-2422-PK		
Note: 2.4G WIFI		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		2310.000	57.34	-14.30	43.04	74.00	-30.96	peak		
2	*	2390.000	72.90	-13.95	58.95	74.00	-15.05	peak		

Radiated Emission Measurement

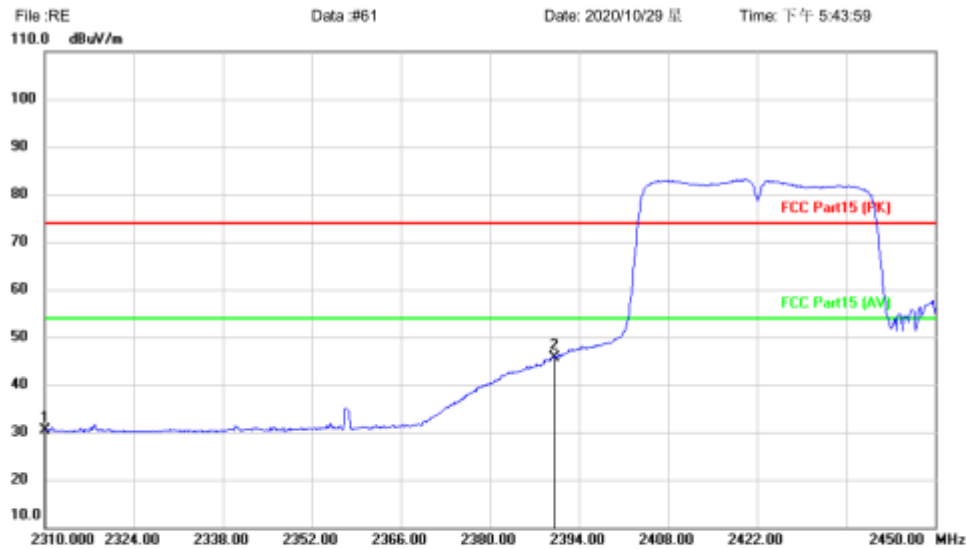


Site	Polarization: Horizontal	Temperature:
Limit: FCC Part15 (PK)	Power: AC120V/60Hz	Humidity: %
EUT: IPTV Set-top box	Distance: 3m	
M/N: MAG425A		
Mode: 802.11N40-2422-PK		
Note: 2.4G WIFI		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree
1		2310.000	56.82	-14.01	42.81	74.00	-31.19 peak		
2	*	2390.000	77.61	-13.62	63.99	74.00	-10.01 peak		

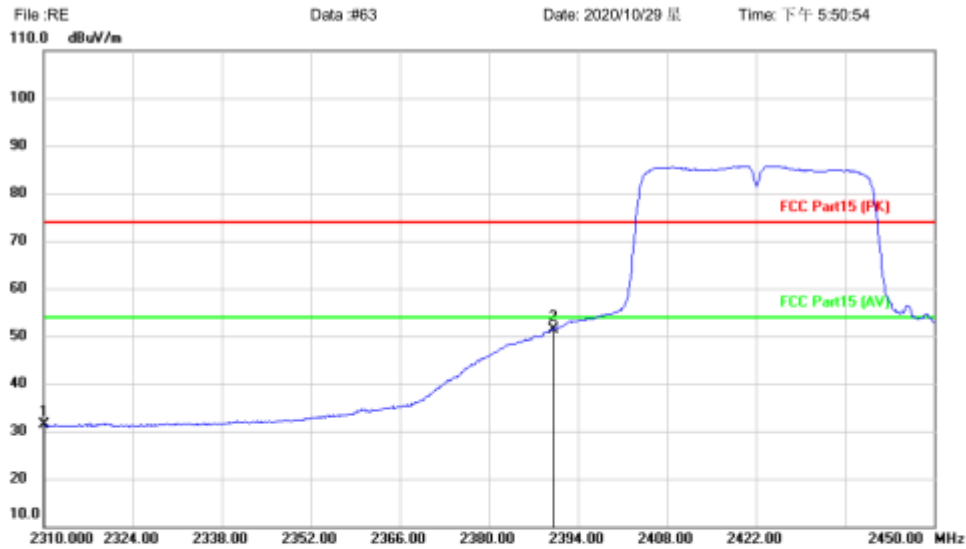
AVG Value

Radiated Emission Measurement



Site	Polarization: Vertical	Temperature:
Limit: FCC Part15 (PK)	Power: AC120V/60Hz	Humidity: %
EUT: IPTV Set-top box	Distance: 3m	
M/N: MAG425A		
Mode: 802.11N40-2422-AV		
Note: 2.4G WIFI		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		2310.000	44.80	-14.30	30.50	54.00	-23.50	AVG		
2	*	2390.000	59.65	-13.95	45.70	54.00	-8.30	AVG		

Radiated Emission Measurement


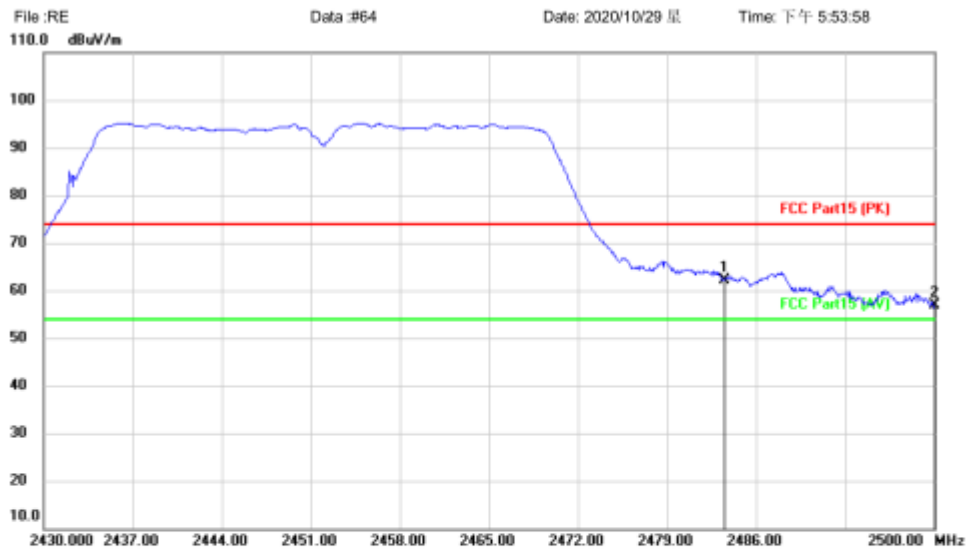
Site
Limit: FCC Part15 (PK)
EUT: IPTV Set-top box
M/N: MAG425A
Mode: 802.11N40-2422-AV
Note: 2.4G WIFI

Polarization: **Horizontal** Temperature:
Power: AC120V/60Hz Humidity: %
Distance: 3m

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		2310.000	45.34	-14.01	31.33	54.00	-22.67	AVG		
2	*	2390.000	65.07	-13.62	51.45	54.00	-2.55	AVG		

Highest channel Peak Value

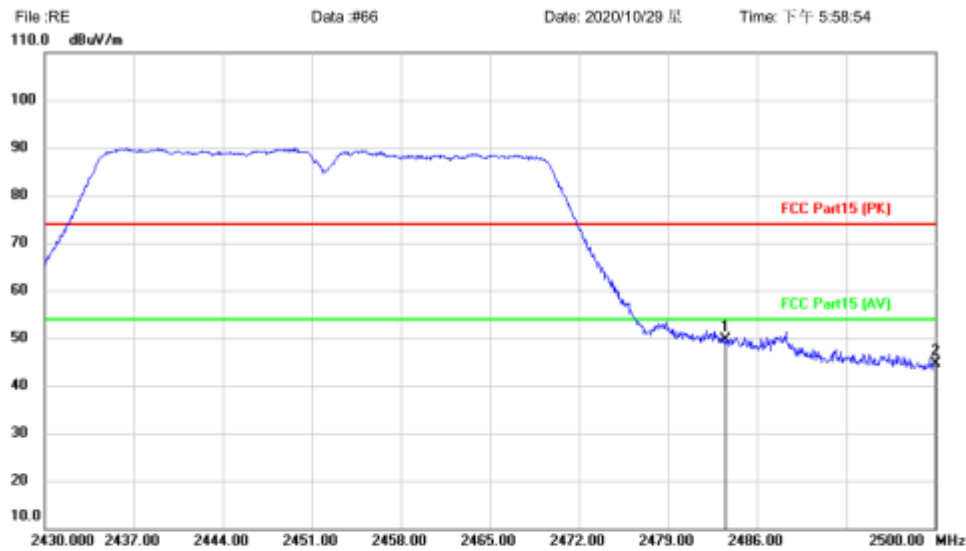
Radiated Emission Measurement



Site	Polarization: Horizontal	Temperature:
Limit: FCC Part15 (PK)	Power: AC120V/60Hz	Humidity: %
EUT: IPTV Set-top box	Distance: 3m	
M/N: MAG425A		
Mode: 802.11N40-2452-PK		
Note: 2.4G WIFI		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	2483.500	75.32	-13.11	62.21	74.00	-11.79	peak		
2		2500.000	69.84	-13.02	56.82	74.00	-17.18	peak		

Radiated Emission Measurement

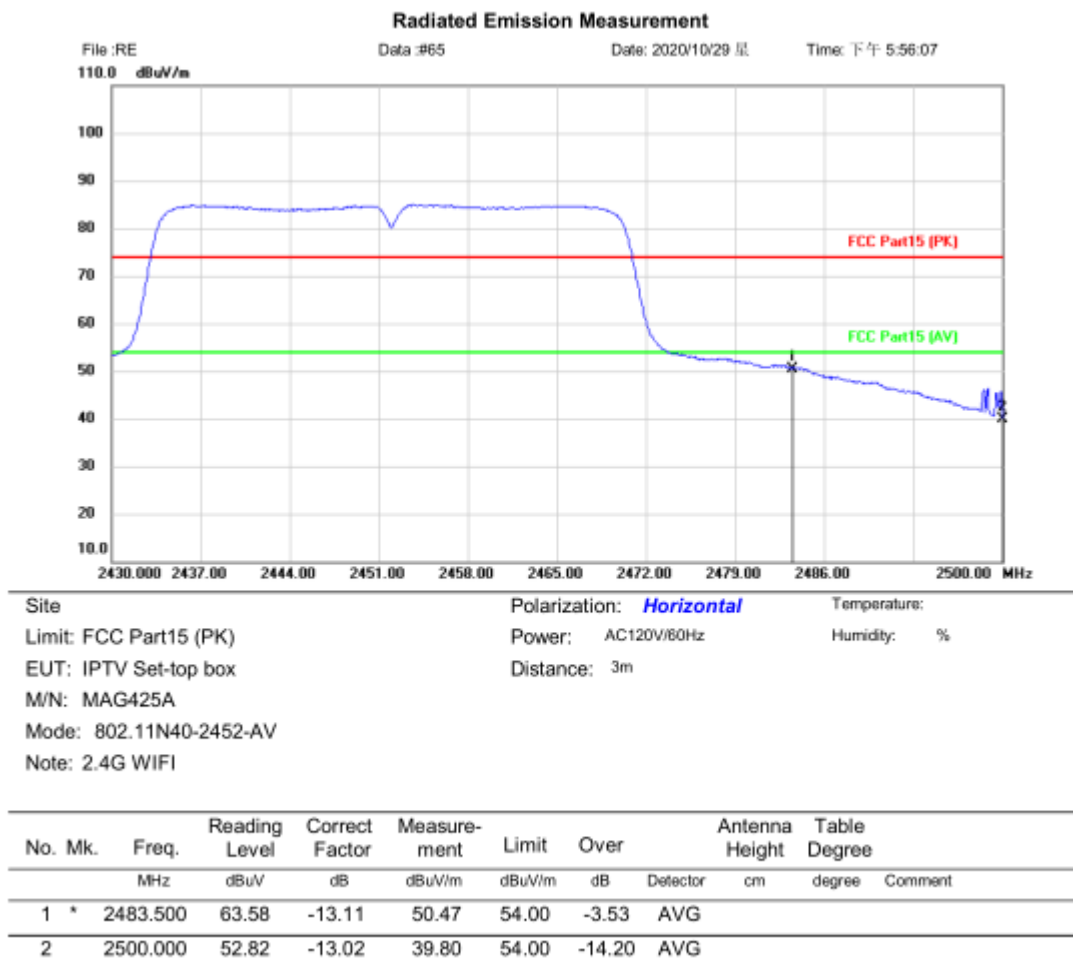


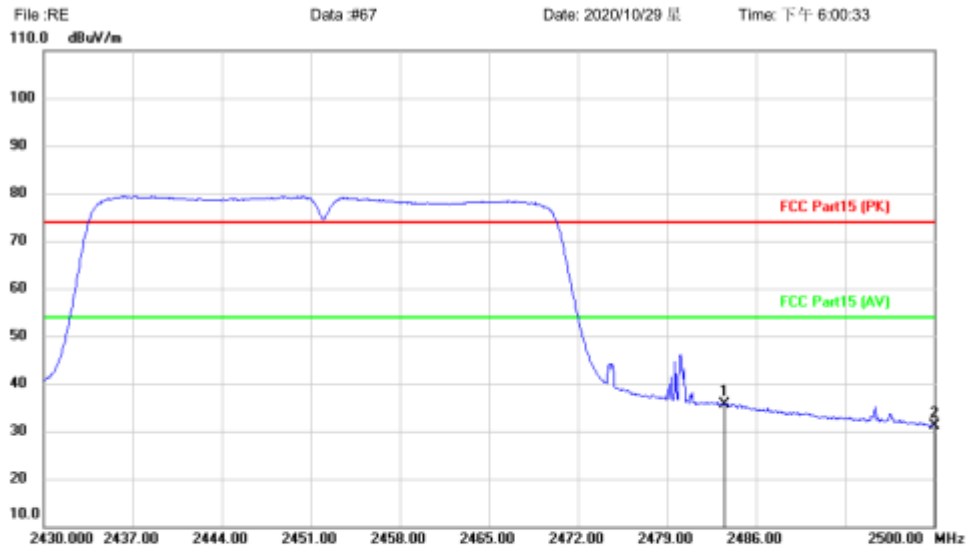
Site
Limit: FCC Part15 (PK)
EUT: IPTV Set-top box
M/N: MAG425A
Mode: 802.11N40-2452-PK
Note: 2.4G WIFI

Polarization: **Vertical**
Power: AC120V/60Hz
Distance: 3m
Temperature:
Humidity: %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1	*	2483.500	63.08	-13.50	49.58	74.00	-24.42	peak		
2		2500.000	58.00	-13.42	44.58	74.00	-29.42	peak		

AVG Value



Radiated Emission Measurement


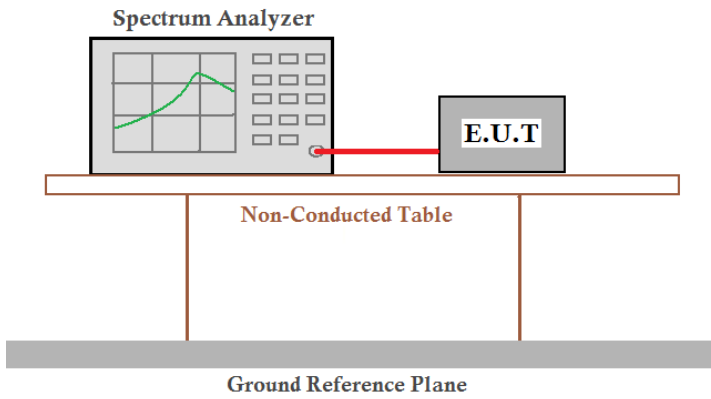
Site
Limit: FCC Part15 (PK)
EUT: IPTV Set-top box
M/N: MAG425A
Mode: 802.11N40-2452-AV
Note: 2.4G WIFI

Polarization: **Vertical** Temperature:
Power: AC120V/60Hz Humidity: %
Distance: 3m

No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1 *	2483.500	49.17	-13.50	35.67	54.00	-18.33	AVG		
2	2500.000	44.58	-13.42	31.16	54.00	-22.84	AVG		

7.7 Spurious Emission

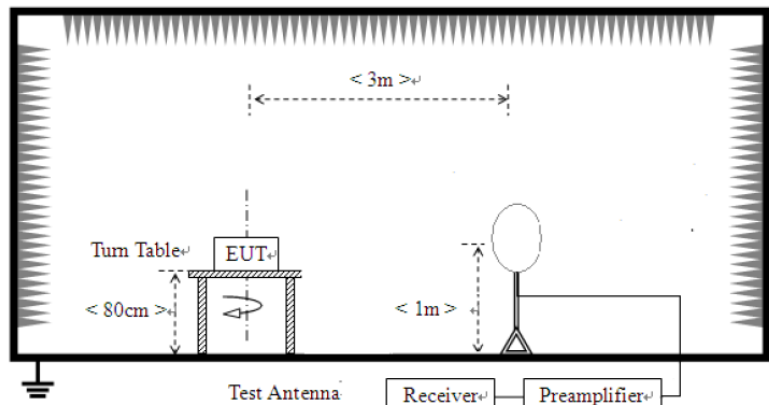
7.7.1 Conducted Emission Method

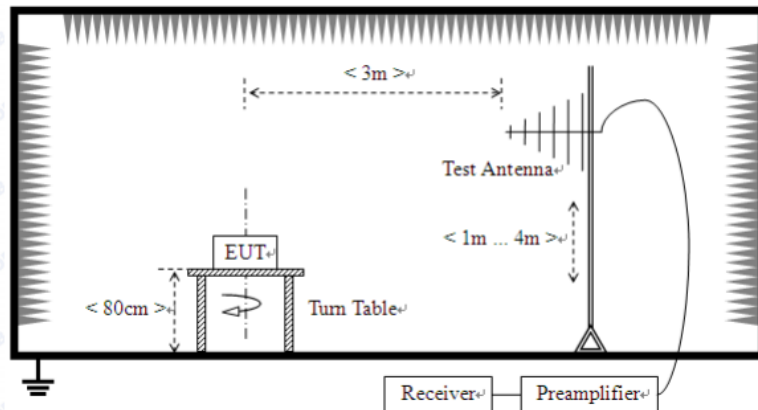
Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074 D01 DTS Meas Guidance V04
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be 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.
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by two vertical legs and sits on a Ground Reference Plane, which is represented by a thick grey bar at the bottom.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data

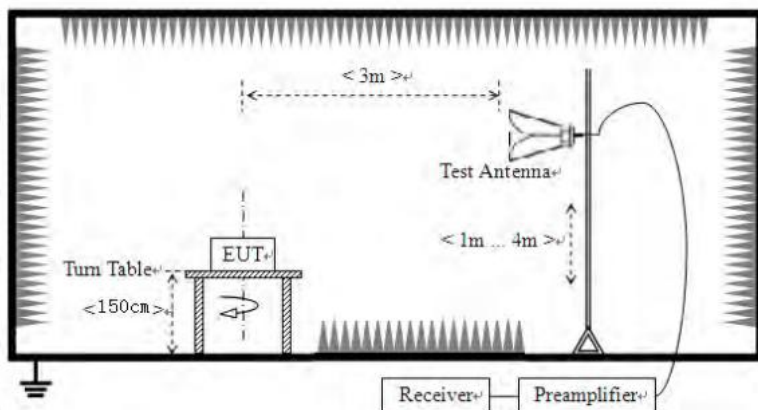
Please Refer To Appendix: AppendixF For Details

7.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	9kHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Limit:	Frequency	Limit (uV/m)	Value	Measurement Distance	
	0.009MHz-0.490MHz	2400/F(KHz)	QP	300m	
	0.490MHz-1.705MHz	24000/F(KHz)	QP	300m	
	1.705MHz-30MHz	30	QP	30m	
	30MHz-88MHz	100	QP	3m	
	88MHz-216MHz	150	QP		
	216MHz-960MHz	200	QP		
	960MHz-1GHz	500	QP		
	Above 1GHz	500	Average		
		5000	Peak		
Test setup:	For radiated emissions from 9kHz to 30MHz				
	<div></div>				
For radiated emissions from 30MHz to 1GHz					



For radiated emissions above 1GHz



Test Procedure:

1. The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Test Instruments:

Refer to section 6.0 for details

Test mode:

Refer to section 5.2 for details

Test results:	Pass
Test voltage:	AC120V 60Hz

Remark:

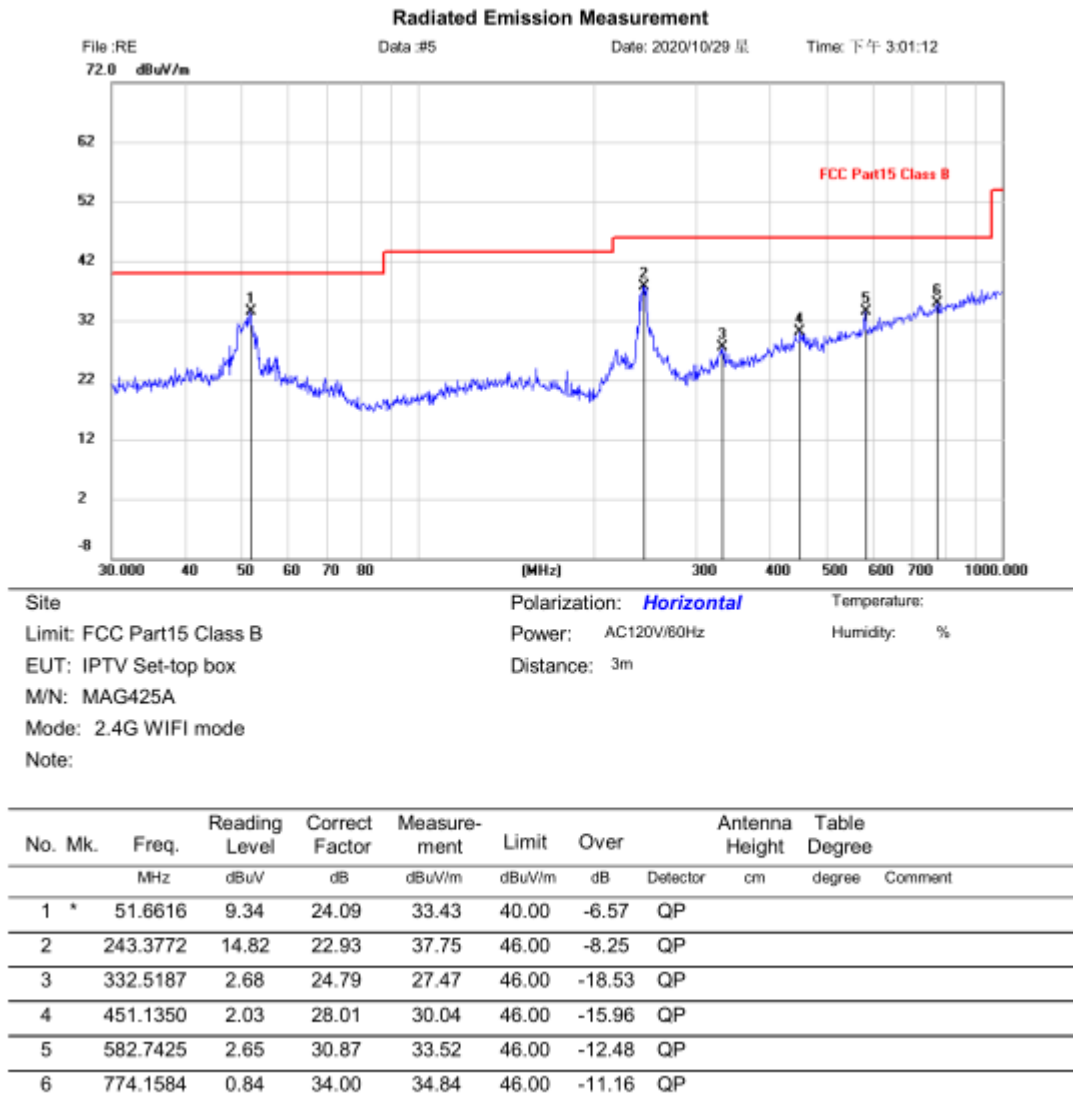
1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.
2. For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

Measurement data:**■ 9kHz~30MHz**

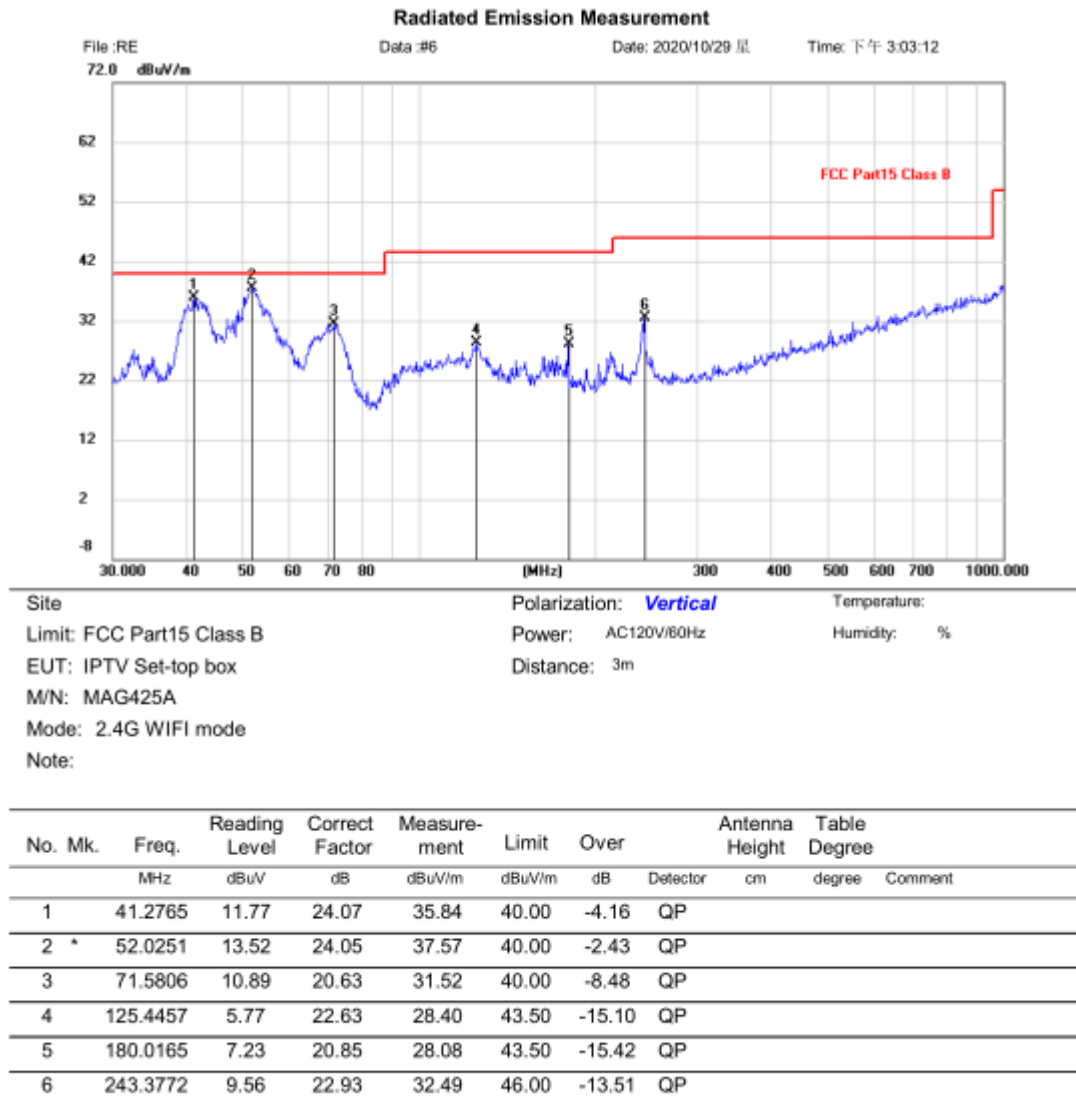
The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Below 1GHz

Mode:	Transmitting mode	Polarization:	Horizontal
Temp./Hum.(%RH):	26°C/56%RH		



Mode:	Transmitting mode	Polarization:	Vertical
Temp./Hum.(%RH):	26°C/56%RH		



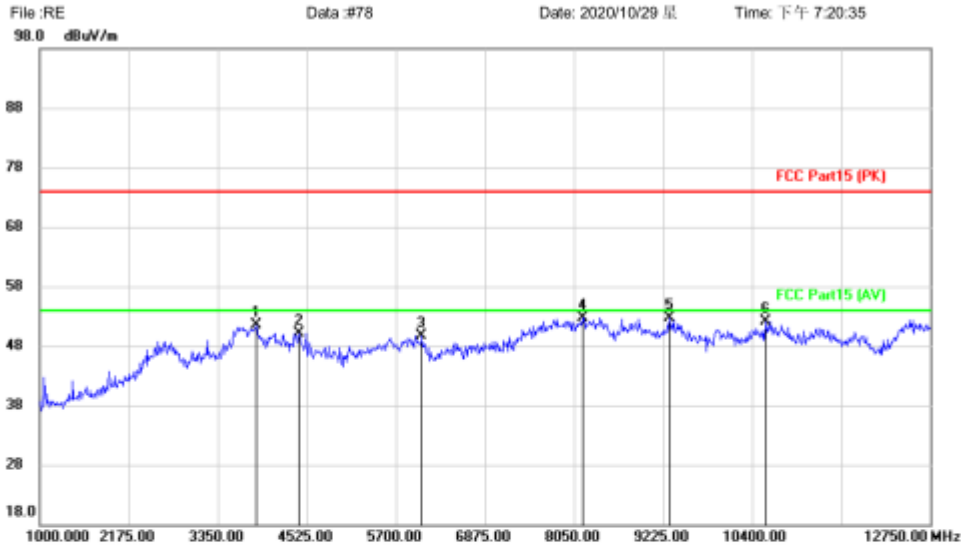
Above 1GHz

- Remark: During the test, pre-scan the 802.11b/g/n mode, and found the 802.11g mode which it is worse case.

802.11g (worst case of ANT1)

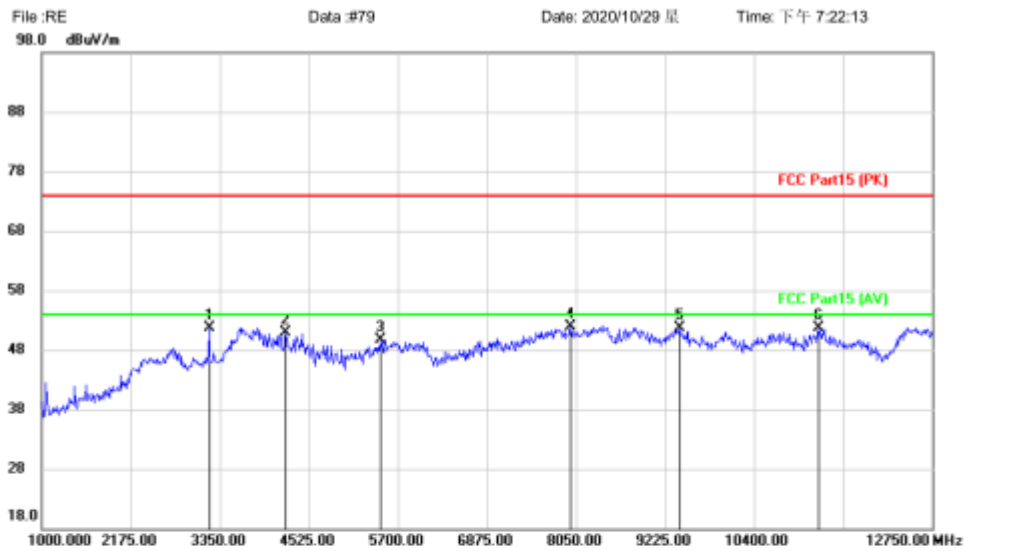
lowest channel

Radiated Emission Measurement



Site Polarization: **Horizontal** Temperature:
Limit: FCC Part15 (PK) Power: AC120V/60Hz Humidity: %
EUT: IPTV Set-top box Distance: 3m
M/N: MAG425A
Mode: 802.11g-2412
Note: 2.4G-WIFI

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		3855.250	54.36	-2.78	51.58	74.00	-22.42	peak		
2		4419.250	53.17	-3.15	50.02	74.00	-23.98	peak		
3		6040.750	54.58	-4.87	49.71	74.00	-24.29	peak		
4	*	8167.500	52.20	0.54	52.74	74.00	-21.26	peak		
5		9307.250	51.18	1.50	52.68	74.00	-21.32	peak		
6		10576.250	50.33	1.79	52.12	74.00	-21.88	peak		

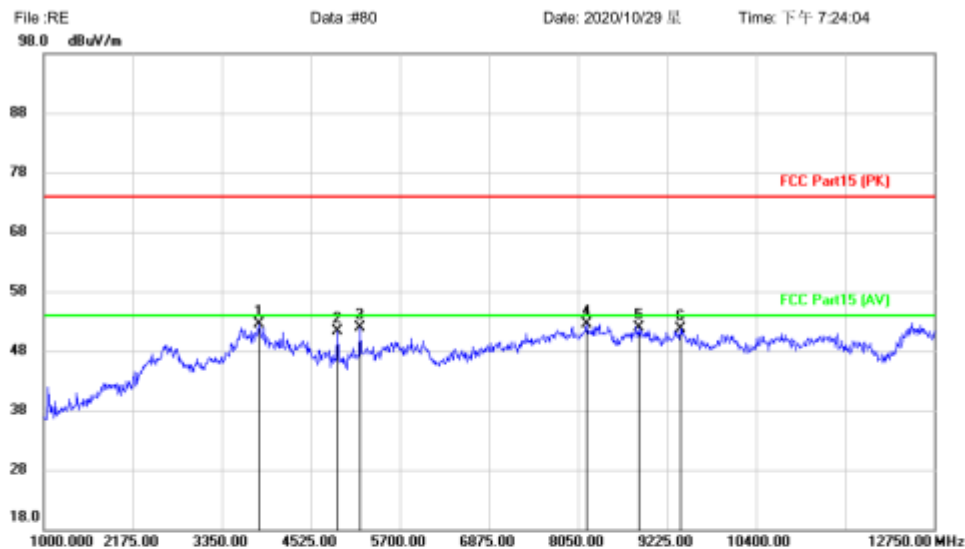
Radiated Emission Measurement


Site	Polarization: Vertical	Temperature:
Limit: FCC Part15 (PK)	Power: AC120V/60Hz	Humidity: %
EUT: IPTV Set-top box	Distance: 3m	
M/N: MAG425A		
Mode: 802.11g-2412		
Note: 2.4G-WIFI		

No. Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	3209.000	59.57	-7.83	51.74	74.00	-22.26	peak		
2	4219.500	53.38	-2.38	51.00	74.00	-23.00	peak		
3	5465.000	52.49	-2.86	49.63	74.00	-24.37	peak		
4 *	7979.500	51.97	-0.11	51.86	74.00	-22.14	peak		
5	9413.000	50.67	0.99	51.66	74.00	-22.34	peak		
6	11246.000	50.39	1.25	51.64	74.00	-22.36	peak		

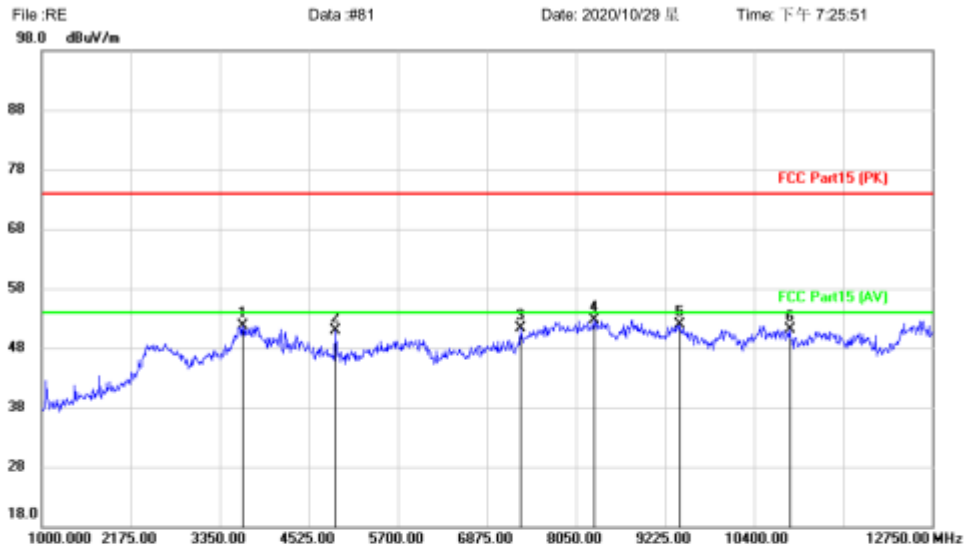
Middle channel

Radiated Emission Measurement



Site	Polarization: Vertical	Temperature:
Limit: FCC Part15 (PK)	Power: AC120V/60Hz	Humidity: %
EUT: IPTV Set-top box	Distance: 3m	
M/N: MAG425A		
Mode: 802.11g-2437		
Note: 2.4G-WIFI		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	3843.500	55.01	-2.43	52.58	74.00	-21.42	peak		
2		4877.500	56.36	-5.04	51.32	74.00	-22.68	peak		
3		5171.250	56.12	-4.29	51.83	74.00	-22.17	peak		
4		8167.500	52.52	0.04	52.56	74.00	-21.44	peak		
5		8860.750	51.23	0.70	51.93	74.00	-22.07	peak		
6		9401.250	50.73	0.99	51.72	74.00	-22.28	peak		

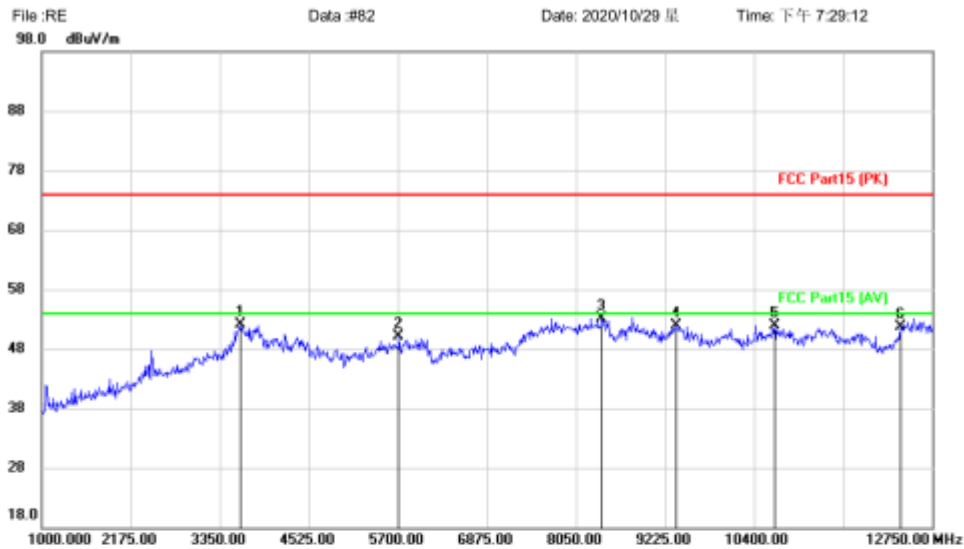
Radiated Emission Measurement


Site	Polarization: Horizontal	Temperature:
Limit: FCC Part15 (PK)	Power: AC120V/60Hz	Humidity: %
EUT: IPTV Set-top box	Distance: 3m	
M/N: MAG425A		
Mode: 802.11g-2437		
Note: 2.4G-WIFI		

No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	3655.500	53.67	-1.90	51.77	74.00	-22.23	peak		
2	4877.500	55.89	-5.04	50.85	74.00	-23.15	peak		
3	7321.500	52.73	-1.35	51.38	74.00	-22.62	peak		
4 *	8285.000	51.90	0.89	52.79	74.00	-21.21	peak		
5	9413.000	50.58	1.29	51.87	74.00	-22.13	peak		
6	10870.000	49.40	1.77	51.17	74.00	-22.83	peak		

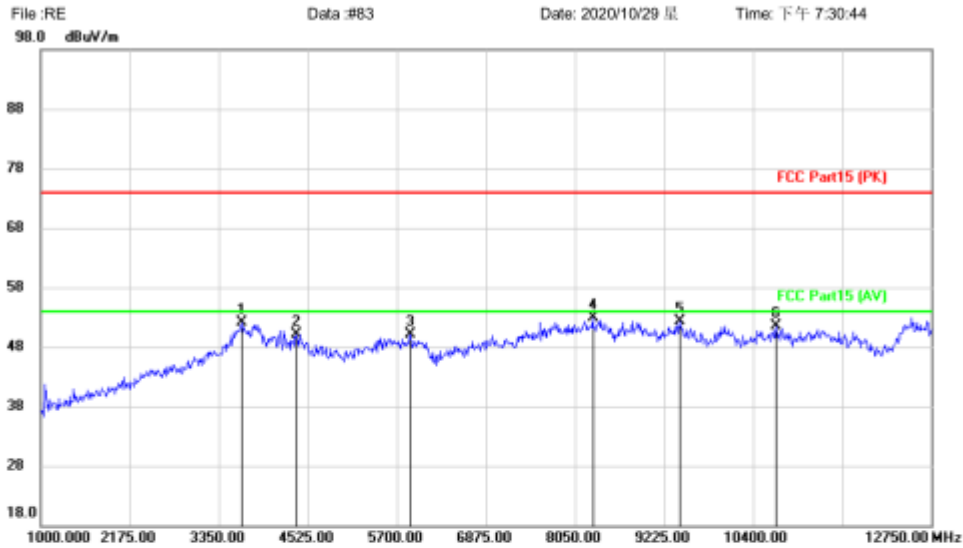
Highest channel

Radiated Emission Measurement



Site	Polarization: Horizontal	Temperature:
Limit: FCC Part15 (PK)	Power: AC120V/60Hz	Humidity: %
EUT: IPTV Set-top box	Distance: 3m	
M/N: MAG425A		
Mode: 802.11g-2462		
Note: 2.4G-WIFI		

No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	3620.250	53.90	-1.81	52.09	74.00	-21.91	peak		
2	5711.750	52.39	-2.34	50.05	74.00	-23.95	peak		
3 *	8390.750	51.89	1.29	53.18	74.00	-20.82	peak		
4	9377.750	50.54	1.34	51.88	74.00	-22.12	peak		
5	10670.250	50.16	1.76	51.92	74.00	-22.08	peak		
6	12327.000	50.05	1.75	51.80	74.00	-22.20	peak		

Radiated Emission Measurement


Site	Polarization: Vertical	Temperature:
Limit: FCC Part15 (PK)	Power: AC120V/60Hz	Humidity: %
EUT: IPTV Set-top box	Distance: 3m	
M/N: MAG425A		
Mode: 802.11g-2462		
Note: 2.4G-WIFI		

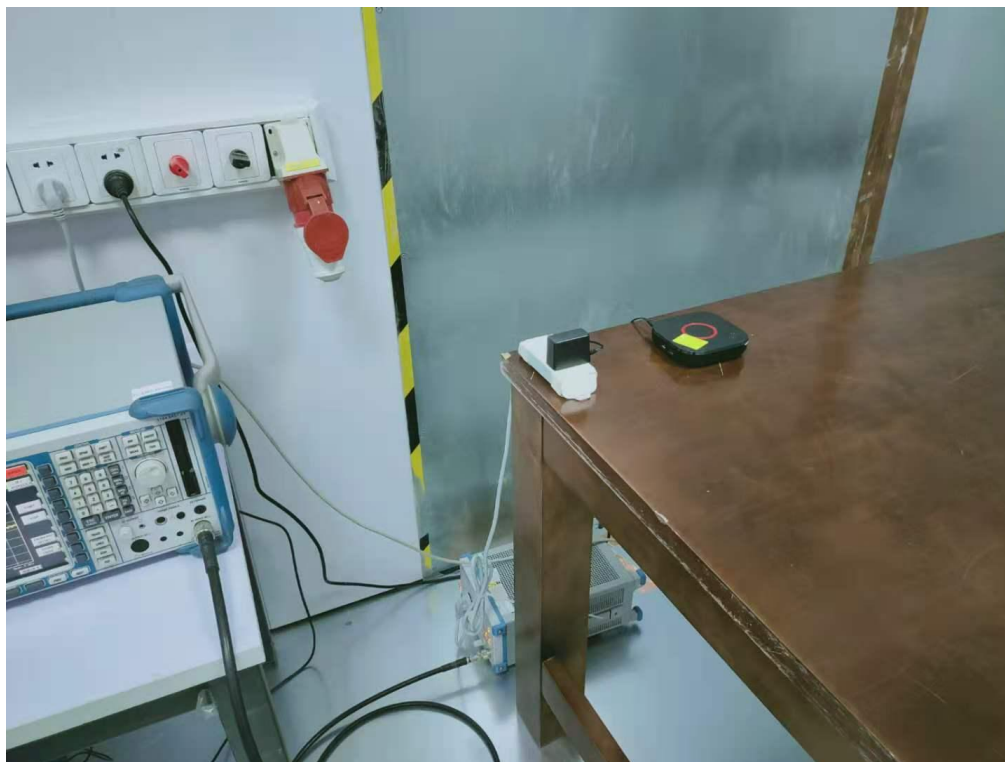
No. Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	3655.500	53.86	-1.74	52.12	74.00	-21.88	peak		
2	4372.250	53.25	-3.08	50.17	74.00	-23.83	peak		
3	5876.250	52.37	-2.34	50.03	74.00	-23.97	peak		
4 *	8285.000	52.50	0.46	52.96	74.00	-21.04	peak		
5	9436.500	51.29	1.00	52.29	74.00	-21.71	peak		
6	10705.500	50.04	1.39	51.43	74.00	-22.57	peak		

8 Test Setup Photo

Radiated Emission



Conducted Emission



9 EUT Constructional Details

Reference to the test report No. BLA-EMC-201909-A0401

10 Appendix

BlueAsia

*** End of Report ***

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