

FCC PART 15C TEST REPORT FOR CERTIFICATION

On Behalf of

TP-LINK TECHNOLOGIES CO., LTD.

2.4GHz 300Mbps 12dBi Outdoor CPE

Model No.: CPE220

FCC ID: TE7CPE220

Prepared for : TP-LINK TECHNOLOGIES CO., LTD.

Building 24(floors 1,3,4,5) and 28 (floors1-4) Central Science
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Report Number : ACS-F15035

Date of Test : Jan.04~Feb.12, 2015

Date of Report : Mar.03, 2015

TABLE OF CONTENTS

Description	Page
1. SUMMARY OF STANDARDS AND RESULTS	1-1
1.1. Description of Standards and Results	1-1
2. GENERAL INFORMATION	2-1
2.1. Description of Device (EUT)	2-1
2.2. Test Information	2-2
2.3. Tested Supporting System Details	2-2
2.4. Block Diagram of Test Setup	2-2
2.5. Test Facility	2-3
2.6. Measurement Uncertainty (95% confidence levels, k=2).....	2-3
3. POWER LINE CONDUCTED EMISSION TEST.....	3-1
3.1. Test Equipments	3-1
3.2. Block Diagram of Test Setup	3-1
3.3. Power Line Conducted Emission Test Limits	3-1
3.4. Configuration of EUT on Test.....	3-1
3.5. Operating Condition of EUT	3-2
3.6. Test Procedure	3-2
3.7. Power Line Conducted Emission Test Results	3-2
4. RADIATED EMISSION TEST	4-1
4.1. Test Equipment.....	4-1
4.2. Block Diagram of Test Setup	4-2
4.3. Radiated Emission Limit	4-3
4.4. EUT Configuration on Test	4-3
4.5. Operating Condition of EUT	4-3
4.6. Test Procedure	4-4
4.7. Radiated Emission Test Results	4-4
5. CONDUCTED SPURIOUS EMISSIONS	5-1
5.1. Test Equipment.....	5-1
5.2. Limit	5-1
5.3. Test Procedure	5-1
5.4. Test result	5-1
6. BAND EDGE COMPLIANCE TEST	6-1
6.1. Test Equipment.....	6-1
6.2. Limit	6-1
6.3. Test Produce	6-1
6.4. Test Results	6-1
7. 6dB Bandwidth Test	7-1
7.1. Test Equipment.....	7-1
7.2. Limit	7-1
7.3. Test Procedure	7-1
7.4. Test Results	7-1
8. OUTPUT POWER TEST	8-1
8.1. Test Equipment.....	8-1
8.2. Limit (FCC Part 15C 15.247 b(3)).....	8-1
8.3. Test Procedure	8-1
8.4. Test Results	8-2
9. POWER SPECTRAL DENSITY TEST	9-1
9.1. Test Equipment.....	9-1

9.2.	Limit	9-1
9.3.	Test Procedure	9-1
9.4.	Test Results	9-2
10.	MPE ESTIMATION	10-1
10.1.	Limit for General Population/ Uncontrolled Exposures	10-1
10.2.	Estimation Result.....	10-1
11.	ANTENNA REQUIREMENT	11-1
11.1.	STANDARD APPLICABLE	11-1
11.2.	ANTENNA CONNECTED CONSTRUCTION	11-1
12.	DEVIATION TO TEST SPECIFICATIONS	12-1
13.	PHOTOGRAPH OF TEST.....	13-1
13.1.	Photos of Power Line Conducted Emission Test	13-1
13.2.	Photos of Radiated Emission Test	13-2
14.	PHOTOS OF THE EUT	14-1

TEST REPORT CERTIFICATION

Applicant : TP-LINK TECHNOLOGIES CO., LTD.
Manufacturer : TP-LINK TECHNOLOGIES CO., LTD.
EUT Description : 2.4GHz 300Mbps 12dBi Outdoor CPE
FCC ID : TE7CPE220
(A) MODEL NO. : CPE220
(B) SERIAL NO. : N/A
(C) POWER SUPPLY : 100-240V, 50/60Hz
(D) TEST VOLTAGE : DC 24V From POE Input AC 120V/60Hz

Tested for comply with:
FCC Rules and Regulations Part 15 Subpart C: 2014

Test procedure used:
ANSI C63.10:2009

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to confirm comply with all the FCC Part 15 Subpart C requirements. The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC and IC requirements. This report contains data that are not covered by the NVLAP accreditation.

This Report is made under FCC Part 2.1075. No modifications were required during testing to bring this product into compliance.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test : Jan.04~Feb.12, 2015 Report of date: Mar.03, 2015

Prepared by : Cindy Zhu / Assistant
Reviewed by : Sunny Lu / Assistant Manager

AUDIX[®] 信華科技(深圳)有限公司
Audix Technology (Shenzhen) Co., Ltd.
EMC 部門報告專用章
Stamp only for EMC Dept. Report
Signature: David Jin
David Jin / Manager

Approved & Authorized Signer : _____
David Jin / Manager

1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION		
Description of Test Item	Standard	Results
Power Line Conducted Emission	FCC Part 15: 15.207 ANSI C63.10: 2009	PASS
Radiated Emission	FCC Part 15: 15.209 ANSI C63.10: 2009	PASS
Band Edge Compliance	FCC Part 15: 15.247 ANSI C63.10: 2009	PASS
Conducted spurious emissions	FCC Part 15: 15.247 ANSI C63.10: 2009	PASS
6dB Bandwidth	FCC Part 15: 15.247 ANSI C63.10: 2009	PASS
Peak Output Power	FCC Part 15: 15.247 ANSI C63.10: 2009	PASS
Power Spectral Density	FCC Part 15: 15.247 ANSI C63.10: 2009	PASS
Antenna requirement	FCC Part 15: 15.203	PASS

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Product Name	: 2.4GHz 300Mbps 12dBi Outdoor CPE
Model Number	: CPE220
FCC ID	: TE7CPE220
Operation Frequency	: IEEE 802.11b: 2412MHz—2462MHz IEEE 802.11g: 2412MHz—2462MHz IEEE 802.11n HT20: 2412MHz—2462MHz IEEE 802.11n HT40: 2422MHz—2452MHz
Channel Number	: IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels IEEE 802.11n HT40: 7Channels
Modulation Technology	: IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20, HT40: OFDM (64QAM, 16QAM, QPSK,BPSK)
Antenna Assembly Gain	: Antenna Type: Directional Antenna Antenna Gain: 12dBi 3dB beamwidth: Horizontal 65°, Vertical 35°
Applicant	: TP-LINK TECHNOLOGIES CO., LTD. Building 24(floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China
Manufacturer	: TP-LINK TECHNOLOGIES CO., LTD. Building 24(floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China
Power Adapter	: Manufacturer: TP-LINK; M/N: T240100-2-POE AC Cable: Unshielded, Detachable, 2.3m
Date of Test	: Jan.04~Feb.12, 2015
Date of Receipt	: Jan.01, 2015
Sample Type	: Prototype production

2.2. Test Information

A special test software was used to control EUT work in Continuous TX mode(100% duty cycle), and select test channel, wireless mode and data rate.

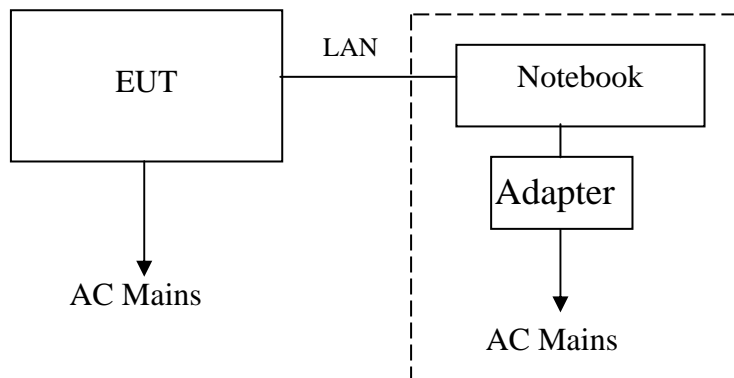
Tested mode, channel, and data rate information			
Mode	data rate (Mbps)(see Note)	Channel	Frequency (MHz)
IEEE 802.11b	11	Low :CH1	2412
	11	Middle: CH6	2437
	11	High: CH11	2462
IEEE 802.11g	54	Low :CH1	2412
	54	Middle: CH6	2437
	54	High: CH11	2462
IEEE 802.11n HT20	6.5	Low :CH1	2412
	6.5	Middle: CH6	2437
	6.5	High: CH11	2462
IEEE 802.11n HT40	13.5	Low :CH1	2422
	13.5	Middle: CH4	2437
	13.5	High: CH7	2452

Note 1: According exploratory test, EUT will have maximum PK output power in those data rate, so those data rate were used for all test.
 Note 2: This device has J2 and J3 two antenna, and use CDD Mode two Antenna can transmit at the same time.
 Note 3: This device has 5MHz , 10MHz, 20MHz and 40MHz Bandwidth.

2.3. Tested Supporting System Details

No.	Description	ACS No.	Manufacturer	Model	Serial Number	Approved type
1	Notebook	N/A	DELL	PP09S	N/A	<input checked="" type="checkbox"/> FCC DoC <input checked="" type="checkbox"/> BSMI ID: R41108
		Power Cord: Unshielded, Detachable, 1.8m Power Adapter: Manufacturer: DELL, M/N: LA65NS1-00 Cable: Unshielded, Detachable, 4.0m(Bond one ferrite core)				

2.4. Block Diagram of Test Setup



(EUT: 2.4GHz 300Mbps 12dBi Outdoor CPE)

2.5. Test Facility

Site Description

Name of Firm	:	Audix Technology (Shenzhen) Co., Ltd. No. 6, Ke Feng Rd., 52 Block, Shenzhen Science & Industrial Park, Nantou, Shenzhen, Guangdong, China
3m Anechoic Chamber	:	Certificated by FCC, USA Registration Number: 90454 Valid Date: Feb.22, 2015
3m & 10m Anechoic Chamber	:	Certificated by FCC, USA Registration Number: 794232 Valid Date: Oct.31, 2015
EMC Lab.	:	Certificated by Industry Canada Registration Number: IC 5183A-1 Valid Date: May.14, 2017
	:	Certificated by DAkkS, Germany Registration No: D-PL-12151-01-00 Valid Date: Dec.15, 2016
	:	Accredited by NVLAP, USA NVLAP Code: 200372-0 Valid Date: Mar.31, 2015

2.6. Measurement Uncertainty (95% confidence levels, k=2)

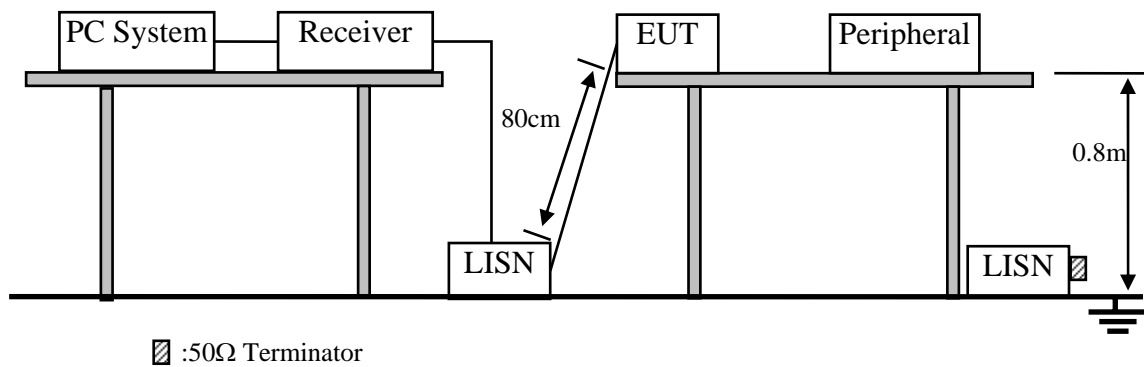
Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	3.10dB (150KHz to 30MHz)
Uncertainty for Radiation Emission test in 3m chamber	3.22 dB(30~200MHz, Polarize: H)
	3.23 dB(30~200MHz, Polarize: V)
	3.49 dB(200M~1GHz, Polarize: H)
	3.39 dB(200M~1GHz, Polarize: V)
Uncertainty for Radiation Emission test in 3m chamber (1GHz-18GHz)	4.97 dB (1~6GHz, Distance: 3m)
	4.99 dB (6~18GHz, Distance: 3m)
Uncertainty for Radiated Spurious Emission test in RF chamber	3.57 dB
Uncertainty for Conduction Spurious emission test	2.00 dB
Uncertainty for Output power test	0.73 dB
Uncertainty for Bandwidth test	83 kHz
Uncertainty for DC power test	0.038 %
Uncertainty for test site temperature and humidity	0.6°C
	3%

3. POWER LINE CONDUCTED EMISSION TEST

3.1. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	1# Shielding Room	AUDIX	N/A	N/A	Apr.17,14	1 Year
2.	Test Receiver	Rohde & Schwarz	ESHS10	838693/001	Oct.29, 14	1 Year
3.	L.I.S.N.#1	Rohde & Schwarz	ESH2-Z5	100429	Oct.29, 14	1 Year
4.	L.I.S.N.#3	Kyoritsu	KNW-242C	8-1920-1	Apr. 28,14	1 Year
5.	Terminator	Hubersuhner	50Ω	No. 1	Apr. 28,14	1 Year
6.	Terminator	Hubersuhner	50Ω	No. 2	Apr. 28,14	1 Year
7.	RF Cable	Hubersuhner	RG58	0100.6954.20#	Oct.29, 14	1Year
8.	Coaxial Switch	Anritsu	MP59B	6200298346	Apr. 28,14	1 Year
9.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	101838	Oct.29, 14	1 Year

3.2. Block Diagram of Test Setup



3.3. Power Line Conducted Emission Test Limits

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.

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

3.4. Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.4.1. 2.4GHz 300Mbps 12dBi Outdoor CPE (EUT)

Model Number : CPE220

Serial Number : N/A

3.4.2. Support Equipment: As Tested Supporting System Details, in Section 2.2.

3.5. Operating Condition of EUT

- 3.5.1. Setup the EUT and simulator as shown as Section 3.2.
- 3.5.2. Turned on the power of all equipment.
- 3.5.3. PC run test software to control EUT work in Tx mode.

3.6. Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2009 on Conducted Emission Test.

The bandwidth of test receiver (R & S ESHS10) is set at 9kHz.

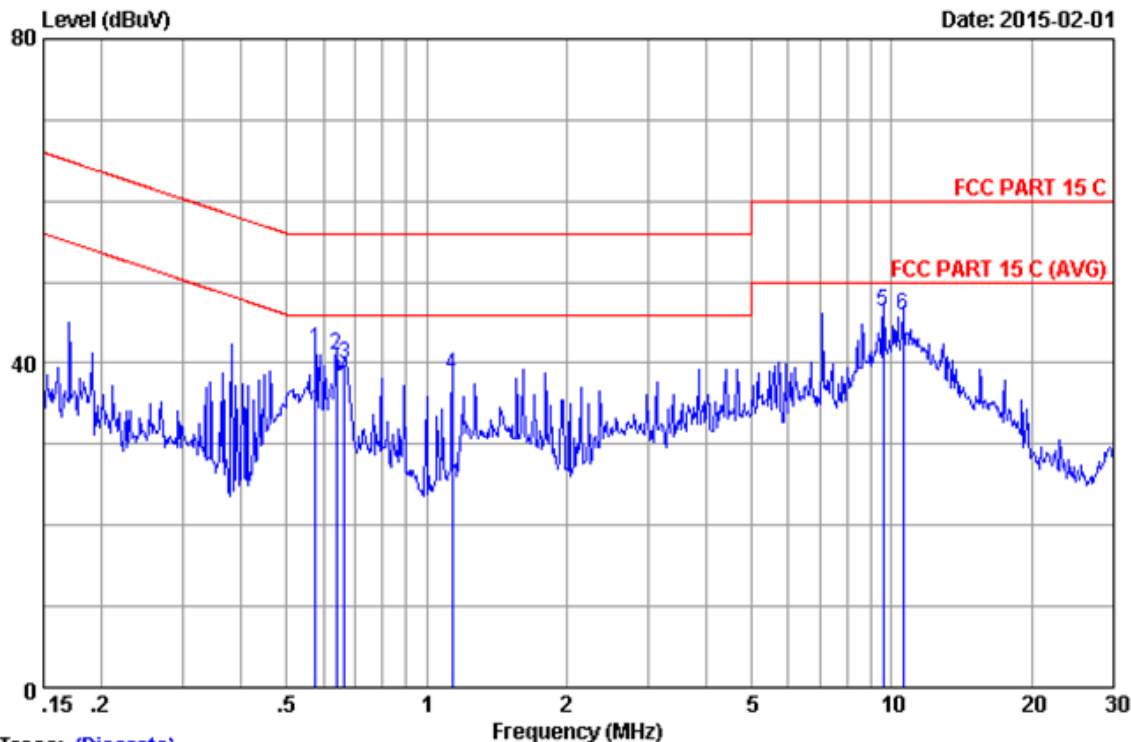
The frequency range from 150kHz to 30MHz is checked.

3.7. Power Line Conducted Emission Test Results

PASS. (All emissions not reported below are too low against the prescribed limits.)

5MHz

Data: 1 File: E:\2014 Report Data\TTP-LINK\ACS14Q2060-RF.EM6 (8) Date: 2015-02-01



Trace: (Discrete)

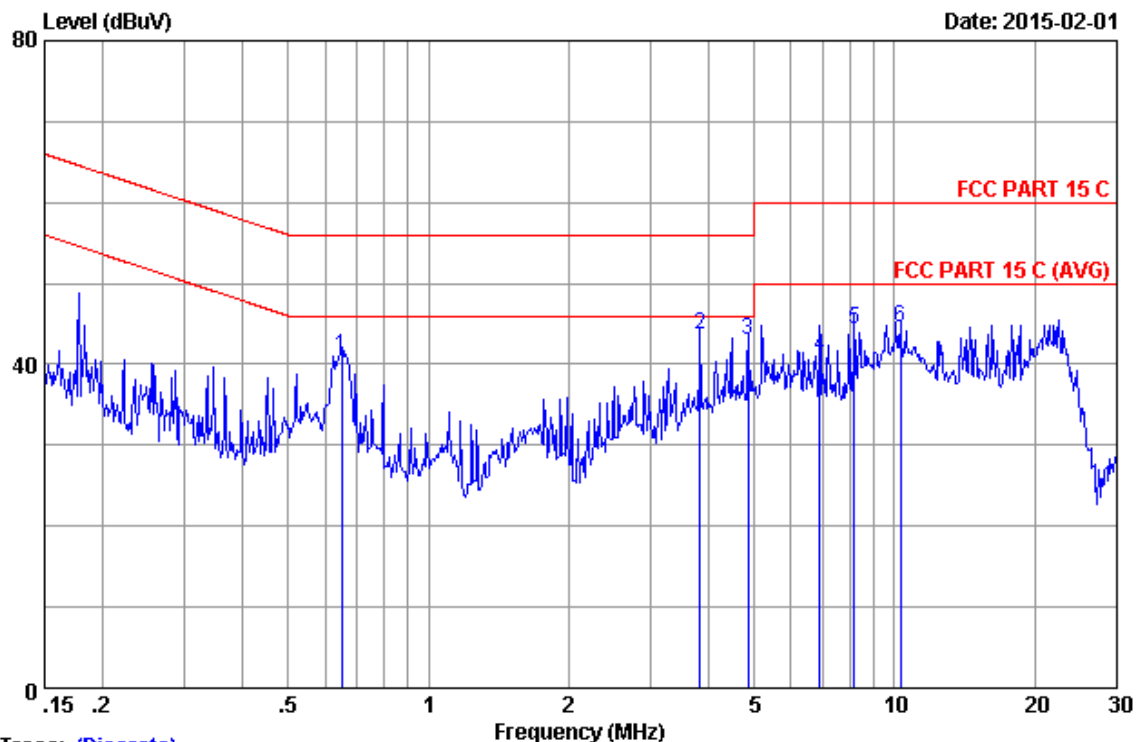
Site no :1# Conduction Data No :1
 Dis./Ant. :2014 ESH2-25 LINE
 Limit :FCC PART 15 C
 Env./Ins. :23.3°C/46% Engineer :Donjon_Huang
 EUT :2.4GHz 300Mbps 12dBi Outdoor CPE
 Power Rating :AC 120V/60Hz
 Test Mode :Tx Mode
 M/N:CPE220

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.57617	0.15	9.90	31.67	41.72	56.00	14.28	QP
2	0.64058	0.15	9.91	30.92	40.98	56.00	15.02	QP
3	0.66478	0.14	9.91	29.79	39.84	56.00	16.16	QP
4	1.135	0.16	9.91	28.52	38.59	56.00	17.41	QP
5	9.603	0.26	10.01	36.16	46.43	60.00	13.57	QP
6	10.564	0.29	10.02	35.68	45.99	60.00	14.01	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)
 +Reading.
 2.If the average limit is met when using a quasi-peak detector.
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

Data: 2 File: E:\2014 Report Data\T\TP-LINK\ACS14Q2060-RF.EM6 (8)

Date: 2015-02-01



Trace: (Discrete)

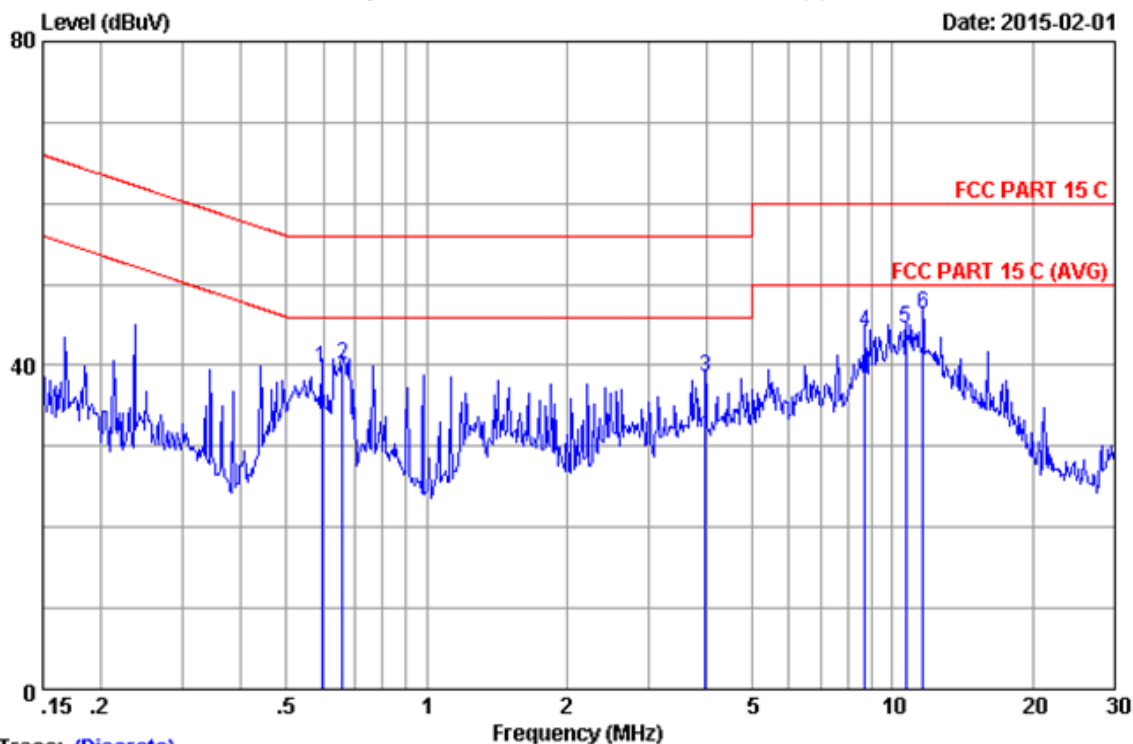
Site no :1# Conduction Data No :2
 Dis./Ant. :2014 ESH2-Z5 NEUTRAL
 Limit :FCC PART 15 C
 Env./Ins. :23.3°C/46% Engineer :Donjon_Huang
 EUT :2.4GHz 300Mbps 12dBi Outdoor CPE
 Power Rating :AC 120V/60Hz
 Test Mode :Tx Mode
 M/N:CPE220

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.65084	0.16	9.91	31.01	41.08	56.00	14.92	QP
2	3.820	0.25	9.95	33.45	43.65	56.00	12.35	QP
3	4.848	0.27	9.97	32.73	42.97	56.00	13.03	QP
4	6.914	0.32	9.99	30.59	40.90	60.00	19.10	QP
5	8.192	0.32	10.00	34.02	44.34	60.00	15.66	QP
6	10.288	0.34	10.01	34.17	44.52	60.00	15.48	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
 2.If the average limit is met when using a quasi-peak detector. the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

10MHz

Data: 3 File: E:\2014 Report Data\TTP-LINK\ACS14Q2060-RF.EM6 (8) Date: 2015-02-01



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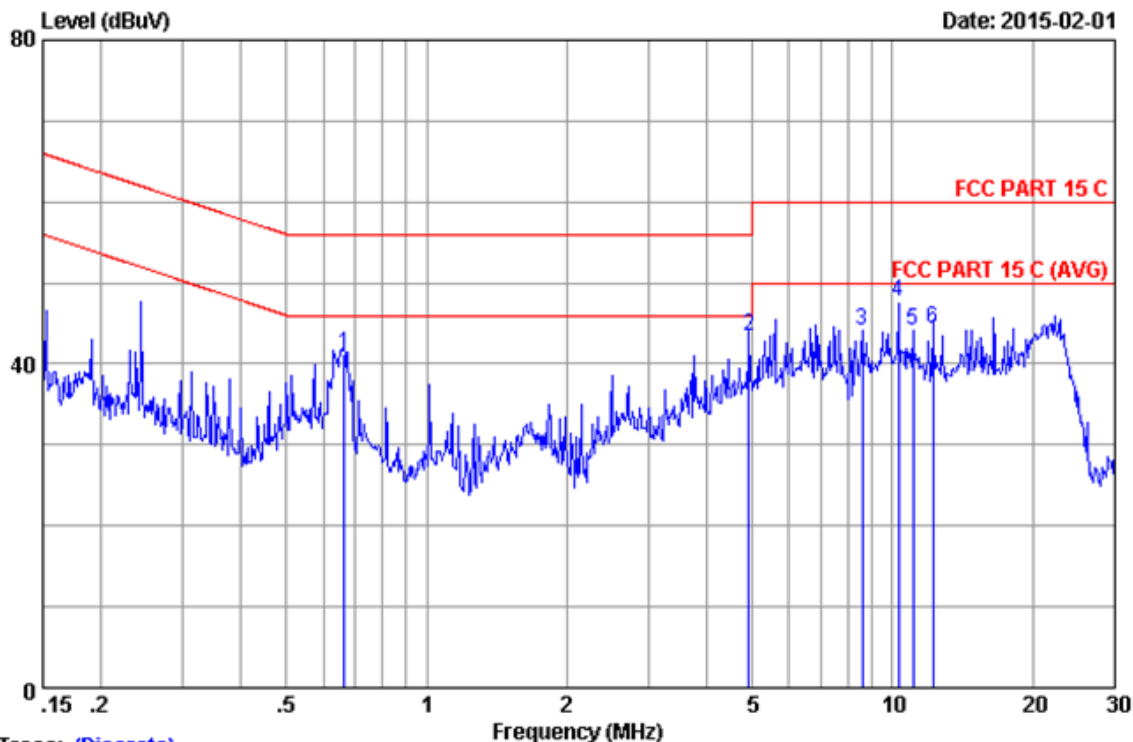
Site no :1# Conduction Data No :3
 Dis./Ant. :2014 ESH2-25 LINE
 Limit :FCC PART 15 C
 Env./Ins. :23.3°C/46% Engineer :Donjon_Huang
 EUT :2.4GHz 300Mbps 12dBi Outdoor CPE
 Power Rating :AC 120V/60Hz
 Test Mode :Tx Mode
 M/N:CPE220

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.59478	0.15	9.91	29.68	39.74	56.00	16.26	QP
2	0.66127	0.14	9.91	30.15	40.20	56.00	15.80	QP
3	3.964	0.23	9.96	28.35	38.54	56.00	17.46	QP
4	8.729	0.27	10.00	33.81	44.08	60.00	15.92	QP
5	10.676	0.30	10.02	34.20	44.52	60.00	15.48	QP
6	11.621	0.34	10.03	35.96	46.33	60.00	13.67	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.

2.If the average limit is met when using a quasi-peak detector. the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

Data: 4 File: E:\2014 Report Data\T\TP-LINK\ACS14Q2060-RF.EM6 (8) Date: 2015-02-01



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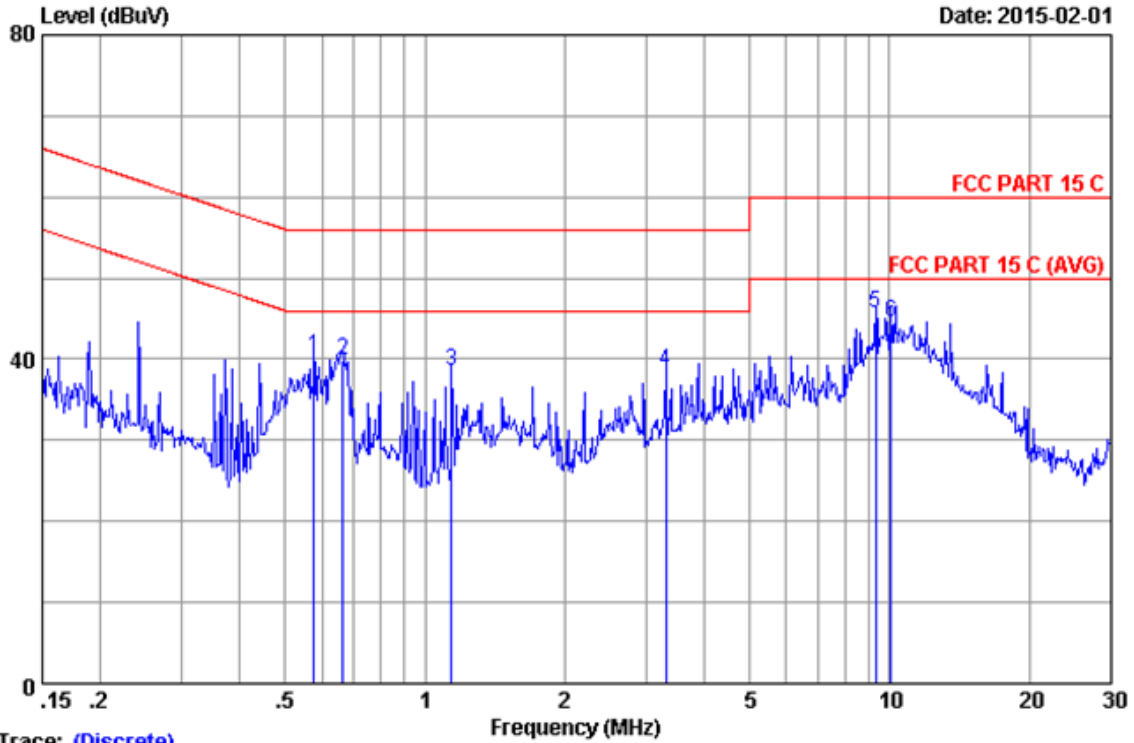
Site no :1# Conduction Data No :4
 Dis./Ant. :2014 ESH2-25 NEUTRAL
 Limit :FCC PART 15 C
 Env./Ins. :23.3°C/46% Engineer :Donjon_Huang
 EUT :2.4GHz 300Mbps 12dBi Outdoor CPE
 Power Rating :AC 120V/60Hz
 Test Mode :Tx Mode
 M/N:CPE220

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBUV)	Emission Level (dBUV)	Limits (dBUV)	Margin (dB)	Remark
1	0.66478	0.16	9.91	31.17	41.24	56.00	14.76	QP
2	4.926	0.27	9.97	33.13	43.37	56.00	12.63	QP
3	8.592	0.32	10.00	33.88	44.20	60.00	15.80	QP
4	10.288	0.34	10.01	37.34	47.69	60.00	12.31	QP
5	11.080	0.38	10.02	33.69	44.09	60.00	15.91	QP
6	12.188	0.44	10.03	33.89	44.36	60.00	15.64	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
 2.If the average limit is met when using a quasi-peak detector. the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

20MHz

Data: 5 File: E:\2014 Report Data\TTP-LINK\ACS14Q2060-RF.EM6 (8) Date: 2015-02-01



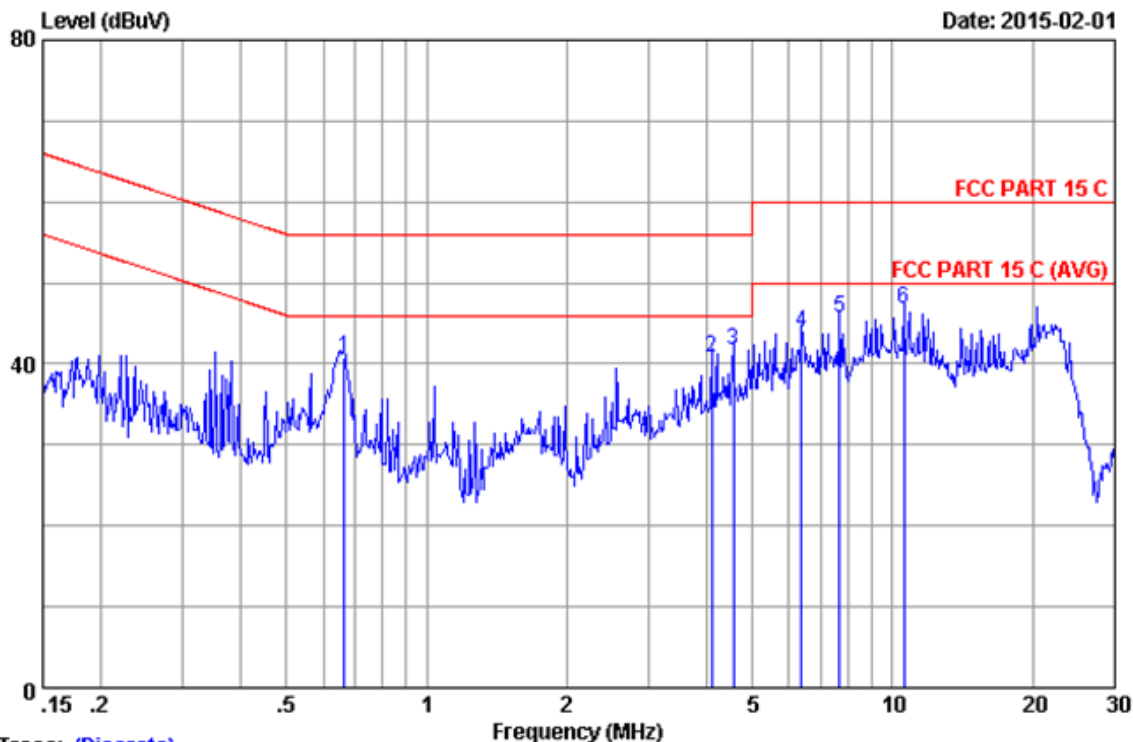
Trace: (Discrete)

Site no :1# Conduction Data No :5
 Dis./Ant. :2014 ESH2-Z5 LINE
 Limit :FCC PART 15 C
 Env./Ins. :23.3*C/46% Engineer :Donjon_Huang
 EUT :2.4GHz 300Mbps 12dBi Outdoor CPE
 Power Rating :AC 120V/60Hz
 Test Mode :Tx Mode
 M/N:CPE220

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.57617	0.15	9.90	30.17	40.22	56.00	15.78	QP
2	0.66478	0.14	9.91	29.93	39.98	56.00	16.02	QP
3	1.141	0.16	9.91	28.44	38.51	56.00	17.49	QP
4	3.293	0.21	9.95	28.35	38.51	56.00	17.49	QP
5	9.352	0.26	10.01	35.40	45.67	60.00	14.33	QP
6	10.072	0.26	10.01	34.24	44.51	60.00	15.49	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
 2.If the average limit is met when using a quasi-peak detector. the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

Data: 6 File: E:\2014 Report Data\T\TP-LINK\ACS14Q2060-RF.EM6 (8) Date: 2015-02-01



Trace: (Discrete)

Site no :1# Conduction Data No :6
 Dis./Ant. :2014 ESH2-25 NEUTRAL
 Limit :FCC PART 15 C
 Env./Ins. :23.3°C/46% Engineer :Donjon_Huang
 EUT :2.4GHz 300Mbps 12dBi Outdoor CPE
 Power Rating :AC 120V/60Hz
 Test Mode :Tx Mode
 M/N:CPE220

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBUV)	Emission Level (dBUV)	Limits (dBUV)	Margin (dB)	Remark
1	0.66478	0.16	9.91	30.79	40.86	56.00	15.14	QP
2	4.092	0.26	9.96	30.57	40.79	56.00	15.21	QP
3	4.549	0.27	9.96	31.55	41.78	56.00	14.22	QP
4	6.386	0.31	9.98	33.61	43.90	60.00	16.10	QP
5	7.687	0.32	10.00	35.29	45.61	60.00	14.39	QP
6	10.564	0.35	10.02	36.35	46.72	60.00	13.28	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
 2.If the average limit is met when using a quasi-peak detector. the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

4. RADIATED EMISSION TEST

4.1. Test Equipment

4.1.1. For frequency range 30MHz~1000MHz (At Anechoic Chamber)

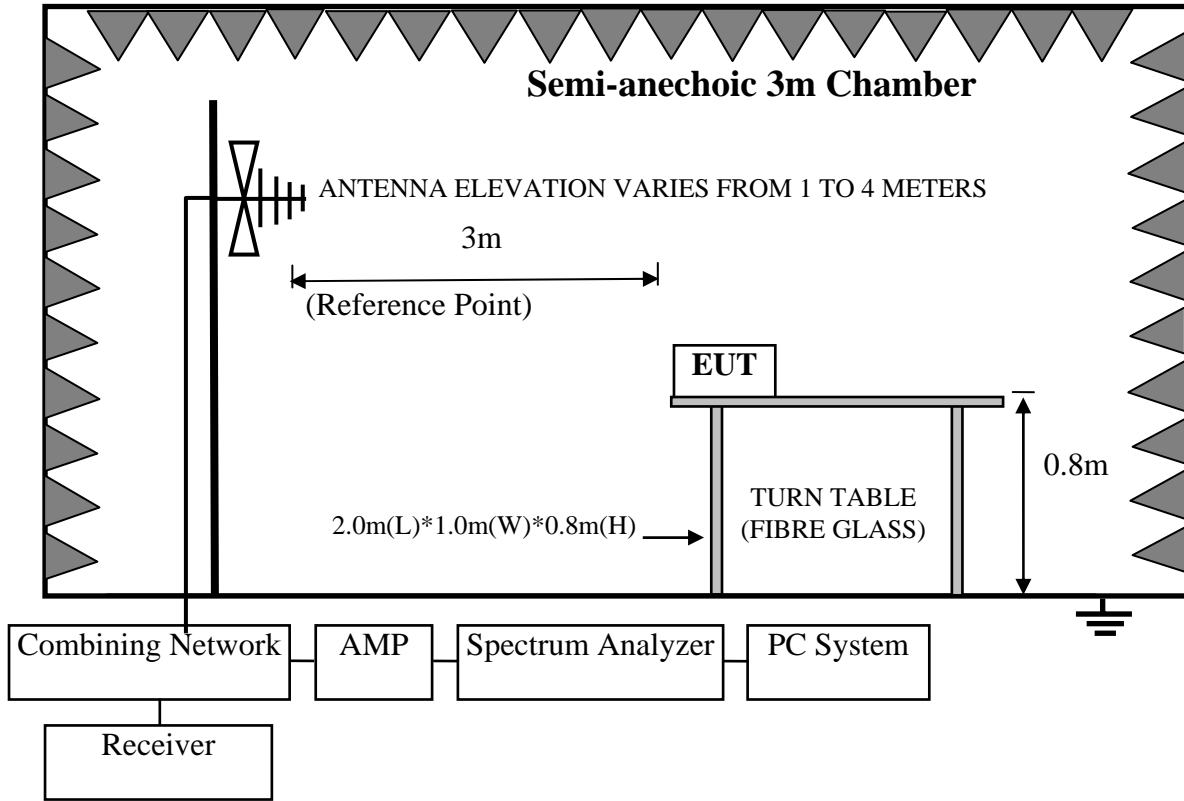
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber	AUDIX	N/A	N/A	Nov.23, 14	1 Year
2.	EMI Spectrum	Agilent	E4407B	MY41440292	Apr. 28,14	1 Year
3.	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	Apr. 28,14	1 Year
4.	Amplifier	HP	8447D	2648A04738	Apr. 28,14	1 Year
5.	Bilog Antenna	TESEQ	CBL6112D	35375	Jun. 18, 14	1 Year
6.	RF Cable	MIYAZAKI	CFD400-NL	3# Chamber No.1	Apr. 28,14	1 Year
7.	Coaxial Switch	Anritsu	MP59B	6200313662	Apr. 28,14	1 Year

4.1.2. For frequency range 1GHz~25GHz (At Anechoic Chamber)

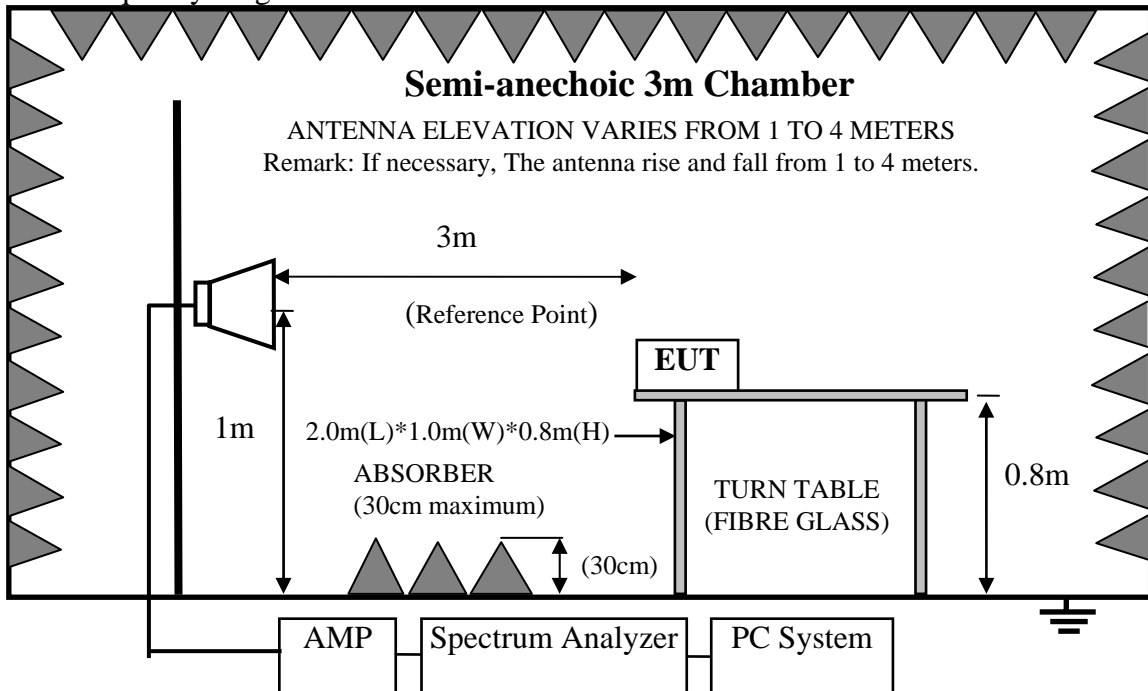
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber	AUDIX	N/A	N/A	Nov.02, 14	1 Year
2.	Spectrum Analyzer	Agilent	E4407B	MY41440292	Apr. 28,14	1 Year
3.	Horn Antenna	ETS	3115	9607-4877	Jun. 06, 14	1 Year
4.	Amplifier	Agilent	8449B	3008A00863	Apr. 28,14	1 Year
5.	RF Cable	Hubersuhner	SUCOFLEX106	77977/6	Apr. 28,14	1 Year
6.	RF Cable	Hubersuhner	SUCOFLEX106	28616/2	Apr. 28,14	1 Year
7.	Horn Antenna	ETS	3116	00060089	Sep.20, 14	1 Year

4.2. Block Diagram of Test Setup

For frequency range 30MHz-1000MHz



For frequency range 1GHz-25GHz



4.3.Radiated Emission Limit

4.3.1. 15.209 limits

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

Remark : (1) Emission level dBμV = 20 log Emission level μV/m

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

4.3.2. 15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

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

4.4.EUT Configuration on Test

The configurations of EUT are listed in Section 3.5.

4.5.Operating Condition of EUT

Same as Conducted Emission test that is listed in Section 3.6. except the test set up replaced by Section 4.2.

4.6. Test Procedure

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna are set on test.

This test was performed with EUT in X, Y, Z position, and the worse case was found when EUT in X position as test photo indicated.

The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's VBW is set at 3MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz

The frequency range from 30MHz to 10th harmonic (25GHz) are checked. and no any emissions were found from 18GHz to 25 GHz, So the radiated emissions from 18GHz to 25GHz were not record.

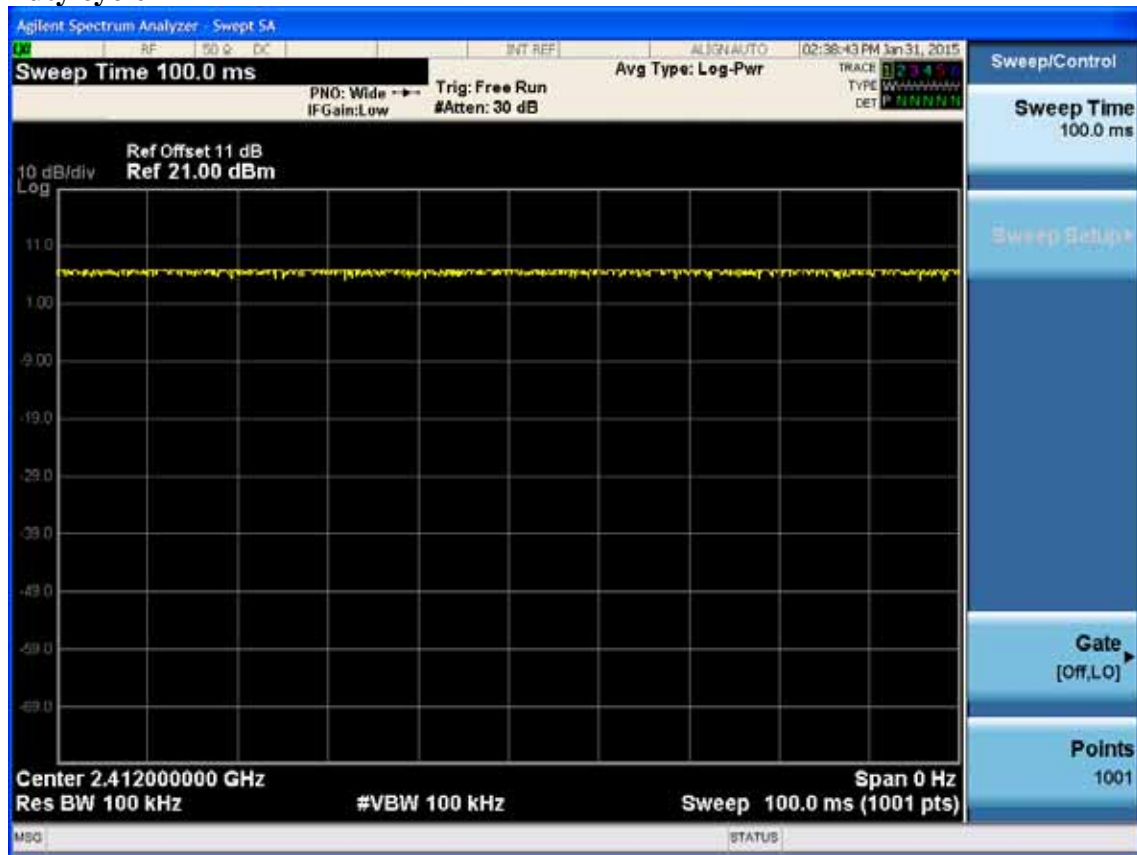
4.7. Radiated Emission Test Results

PASS.

All the emissions from 30MHz to 25 GHz were comply with 15.209 limits.

Note: For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.

Duty cycle



Note: The Duty Cycle is close to 100%.

5MHz

Frequency: 30MHz~1GHz

Data: 1

File: E:\2014 Report Data\T\TP-LINK\ACS14Q2060-rf.EM6 (8)

Date: 2015-02-01



Site no. : 3m Chamber Data no. : 1
 Dis. / Ant. : 3m 2014 CBL6112D 35375 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 24.4°C/40% Engineer : Donjon
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : TX Mode
 M/N:CPE220

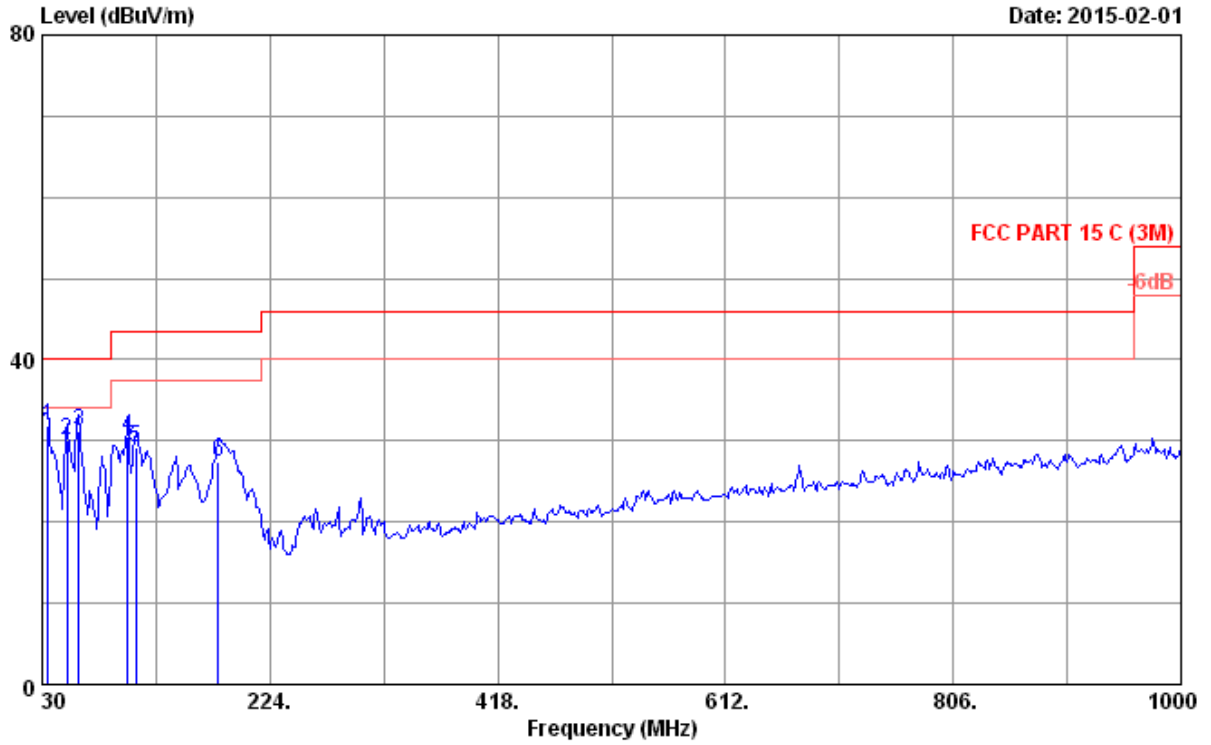
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	34.850	16.93	0.65	12.56	30.14	40.00	9.86	QP
2	183.260	9.70	1.75	17.08	28.53	43.50	14.97	QP
3	190.050	9.70	1.79	16.77	28.26	43.50	15.24	QP
4	352.040	15.54	2.57	7.86	25.97	46.00	20.03	QP
5	752.650	20.65	4.32	5.09	30.06	46.00	15.94	QP
6	901.060	22.02	4.87	4.51	31.40	46.00	14.60	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 2

File: E:\2014 Report Data\T\TP-LINK\ACS14Q2060-rf.EM6 (8)

Date: 2015-02-01



Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 2014 CBL6112D 35375 Ant. pol. : VERTICAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 24.4°C/40% Engineer : Donjon
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : TX Mode
 M/N:CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	34.850	16.93	0.65	14.25	31.83	40.00	8.17	QP
2	51.340	8.43	0.78	20.96	30.17	40.00	9.83	QP
3	61.040	6.40	0.87	23.97	31.24	40.00	8.76	QP
4	102.750	11.54	1.14	17.93	30.61	43.50	12.89	QP
5	109.540	12.15	1.21	15.84	29.20	43.50	14.30	QP
6	180.350	9.70	1.73	15.95	27.38	43.50	16.12	QP

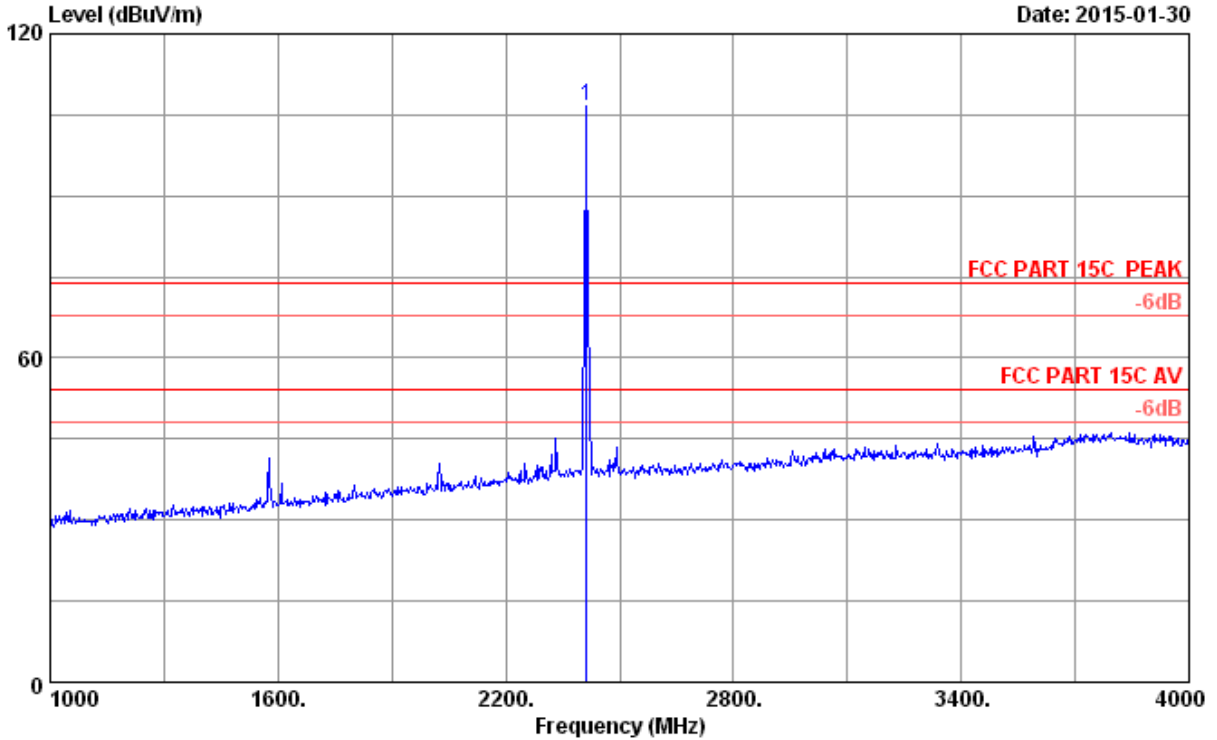
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Frequency: 1GHz~18GHz

Data: 1

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-5M.EM6 (78)

Date: 2015-01-30



Site no. : 3m Chamber Data no. : 1
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11b 2412 MHz Tx Mode
 M/N : CPE220

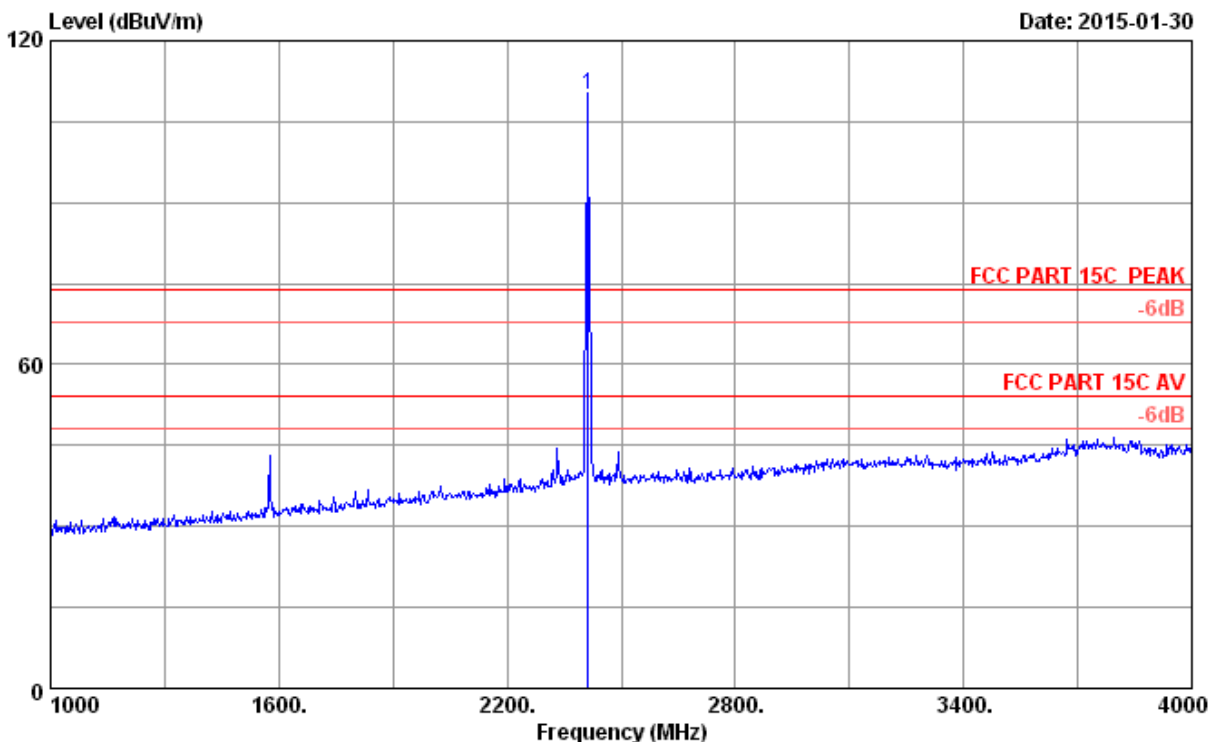
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.000	28.21	5.81	35.70	108.27	106.59	74.00	-32.59	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 2

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-5M.EM6 (78)

Date: 2015-01-30



Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11b 2412 MHz Tx Mode
 M/N : CPE220

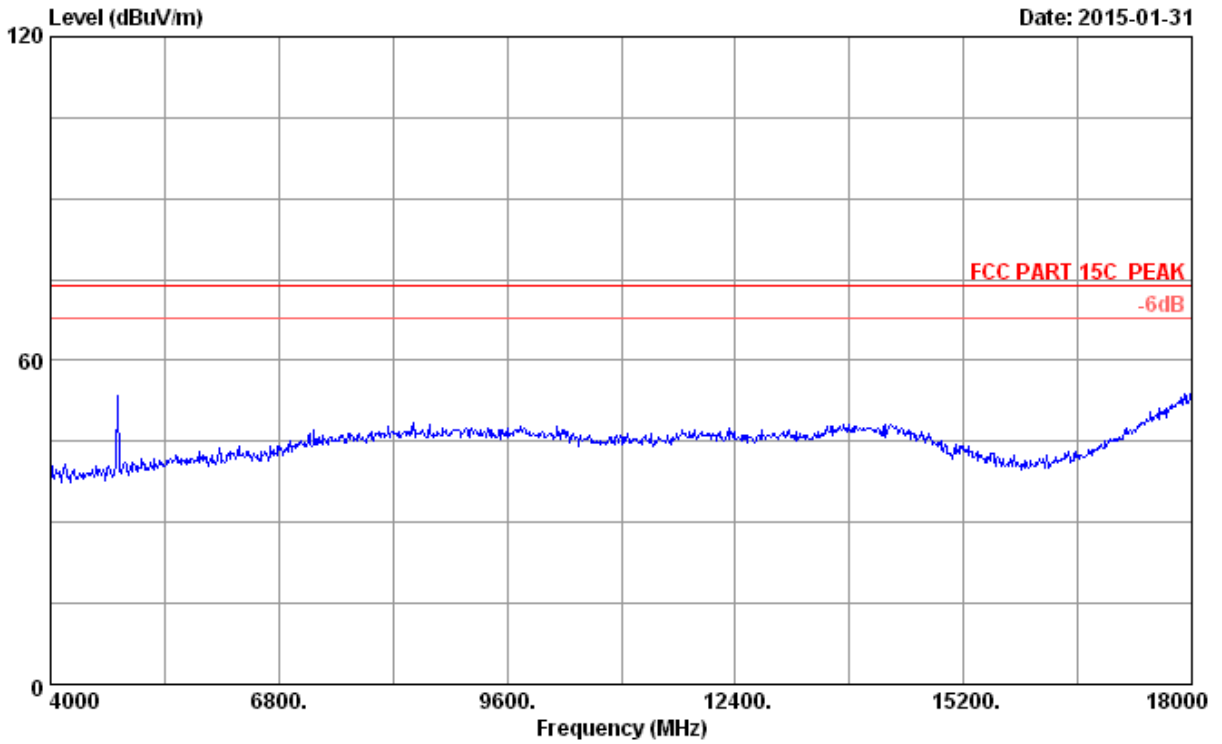
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.000	28.21	5.81	35.70	111.61	109.93	74.00	-35.93	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

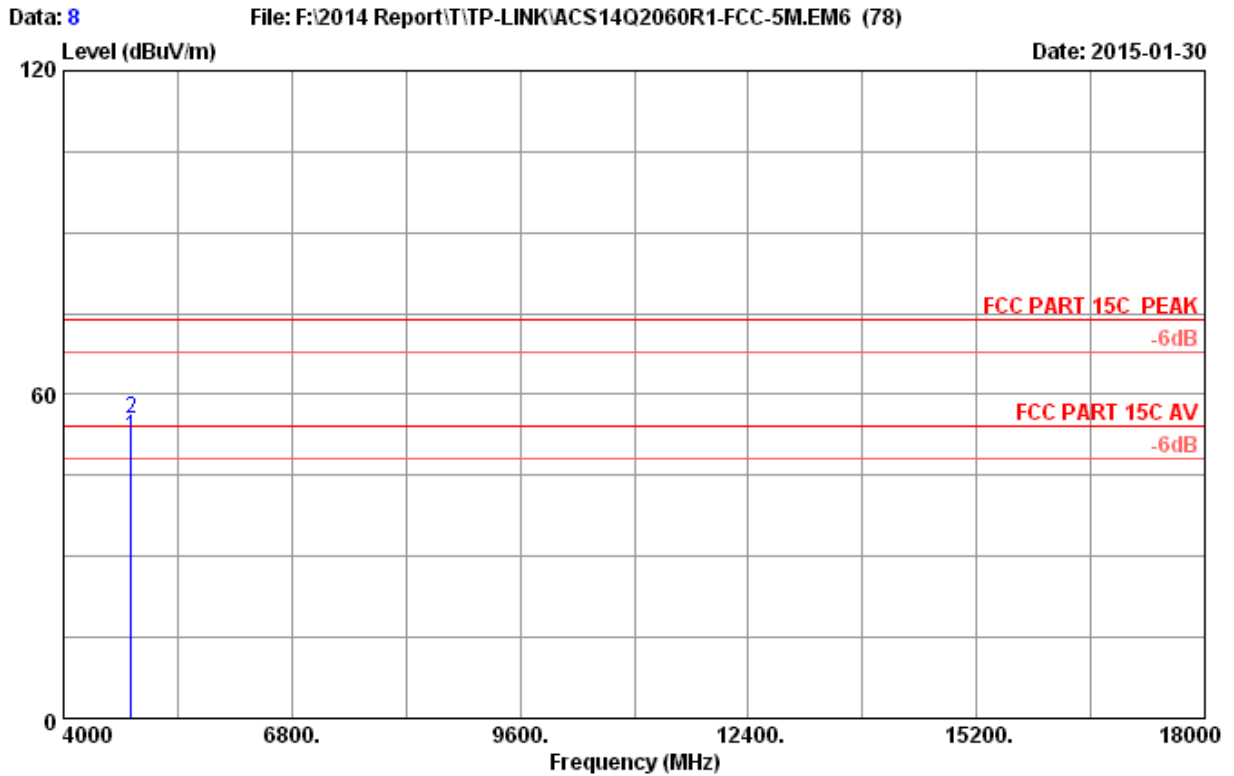
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File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-5M.EM6 (78)

Date: 2015-01-31



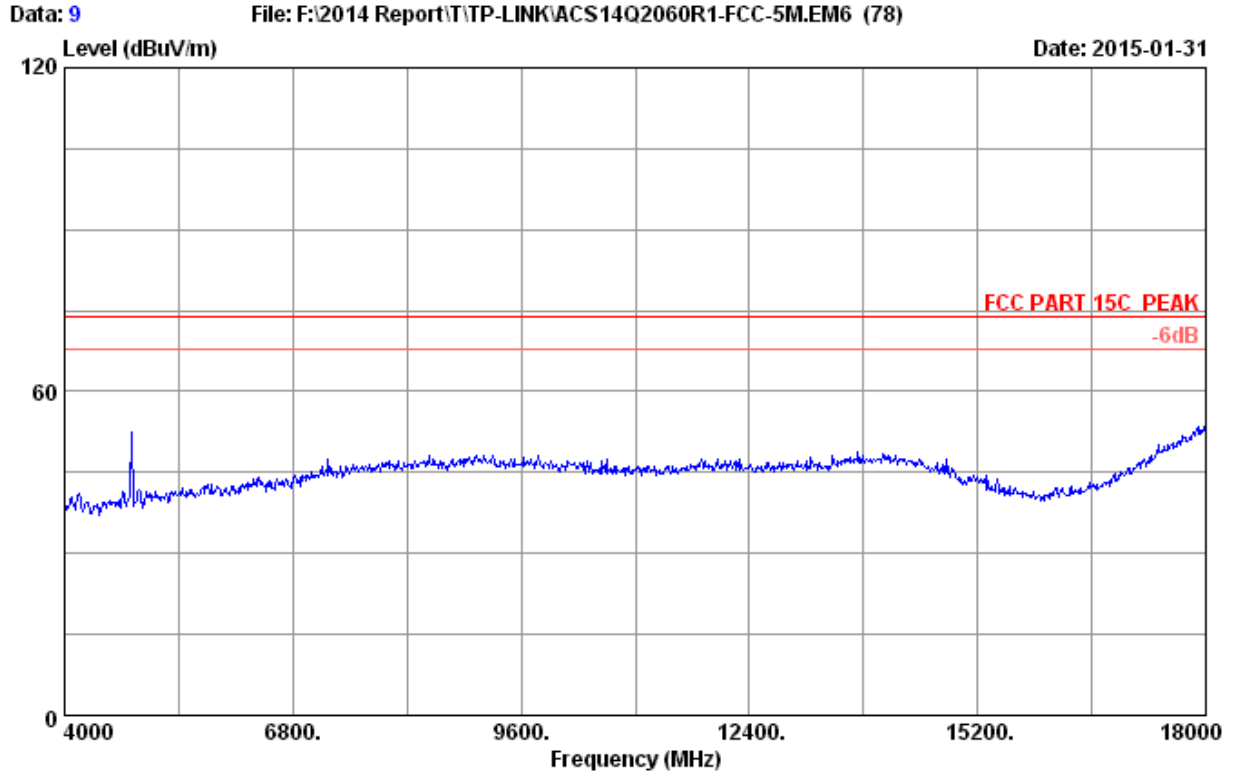
Site no. : 3m Chamber Data no. : 7
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11b 2412 MHz Tx Mode
M/N : CPE220



Site no. : 3m Chamber Data no. : 8
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11b 2412 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.000	32.88	8.58	35.70	46.48	52.24	54.00	1.76	Average
2	4824.000	32.88	8.58	35.70	49.60	55.36	74.00	18.64	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

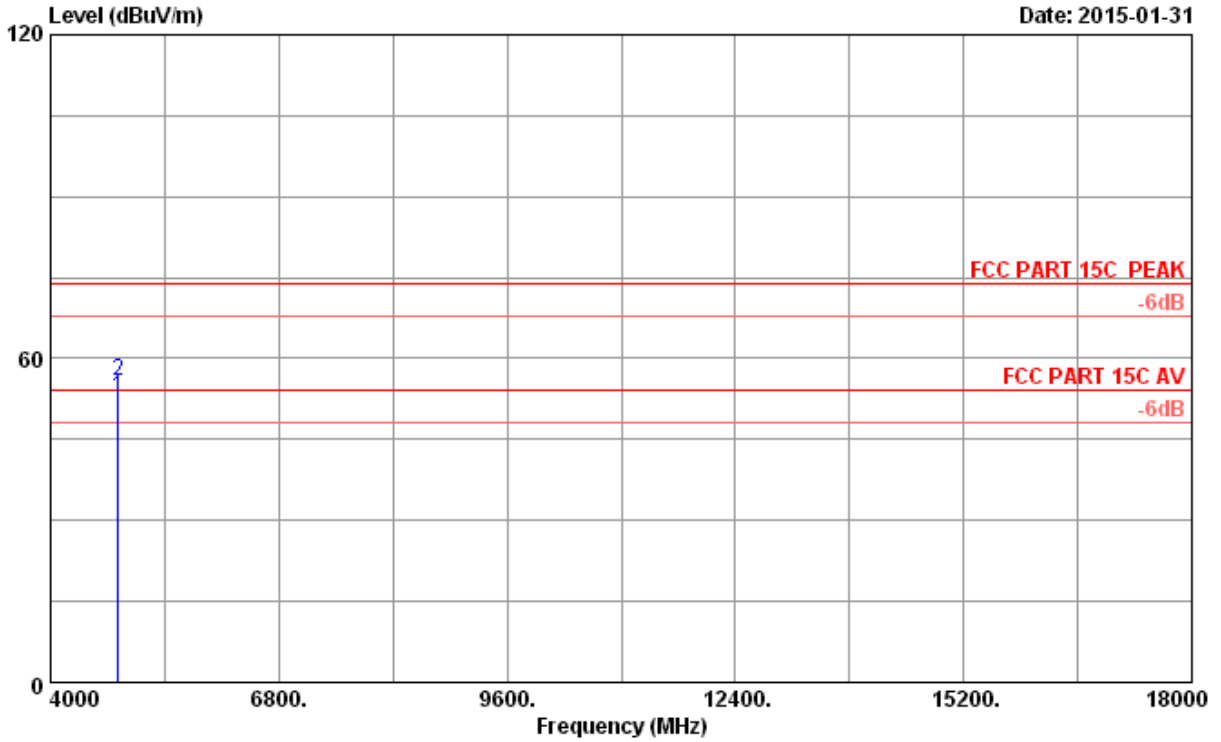


Site no. : 3m Chamber Data no. : 9
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11b 2412 MHz Tx Mode
M/N : CPE220

Data: 10

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-5MLEM6 (78)

Date: 2015-01-31



Site no. : 3m Chamber Data no. : 10
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11b 2412 MHz Tx Mode
 M/N : CPE220

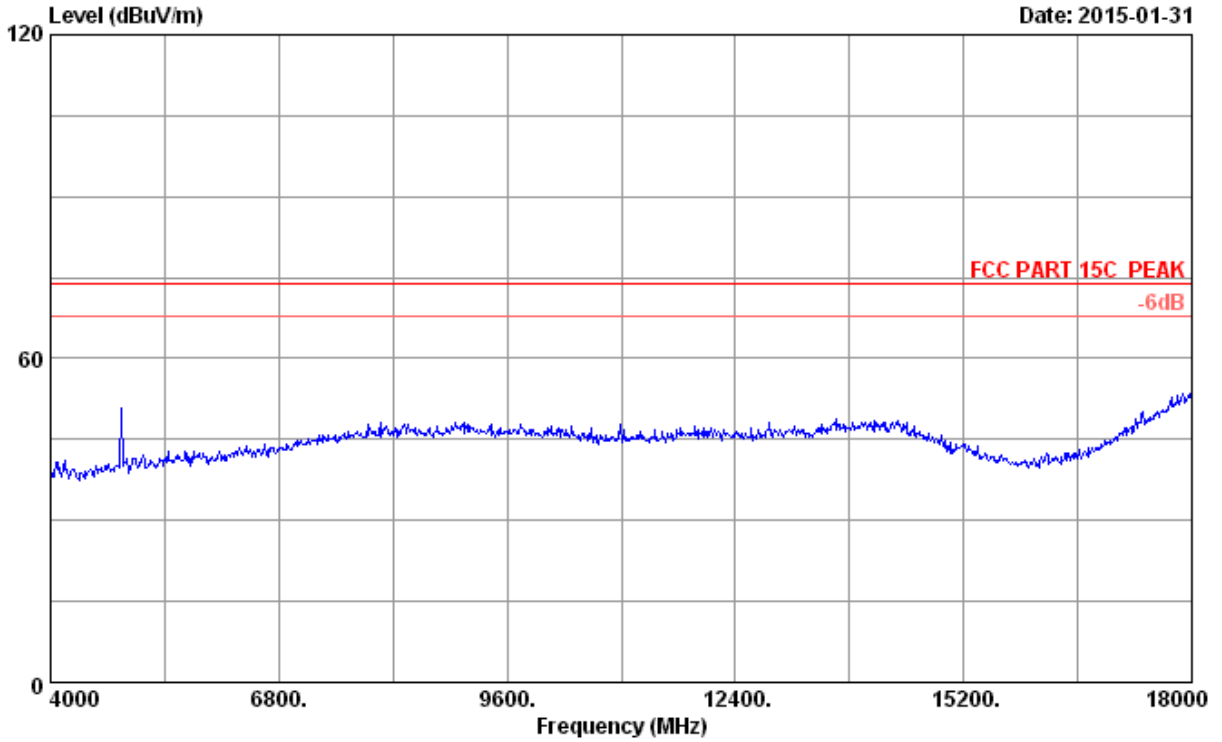
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.000	32.88	8.58	35.70	47.21	52.97	54.00	1.03	Average
2	4824.000	32.88	8.58	35.70	50.15	55.91	74.00	18.09	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

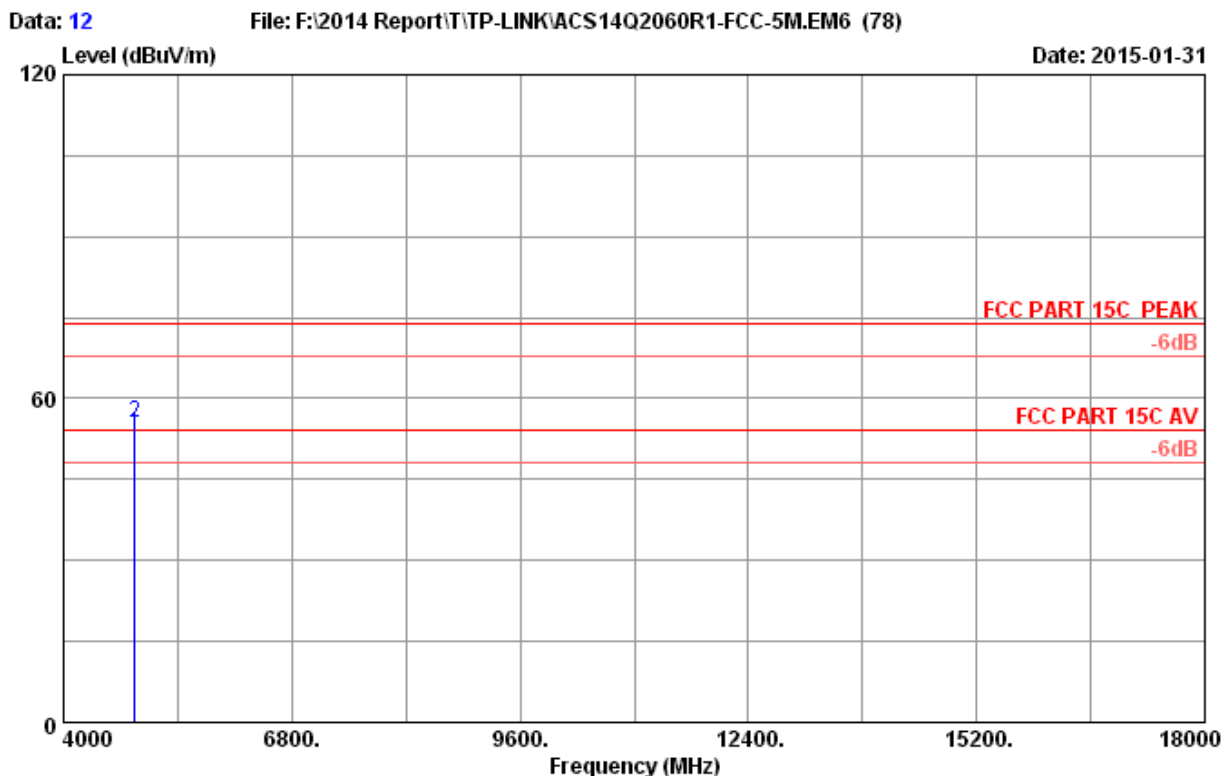
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Date: 2015-01-31



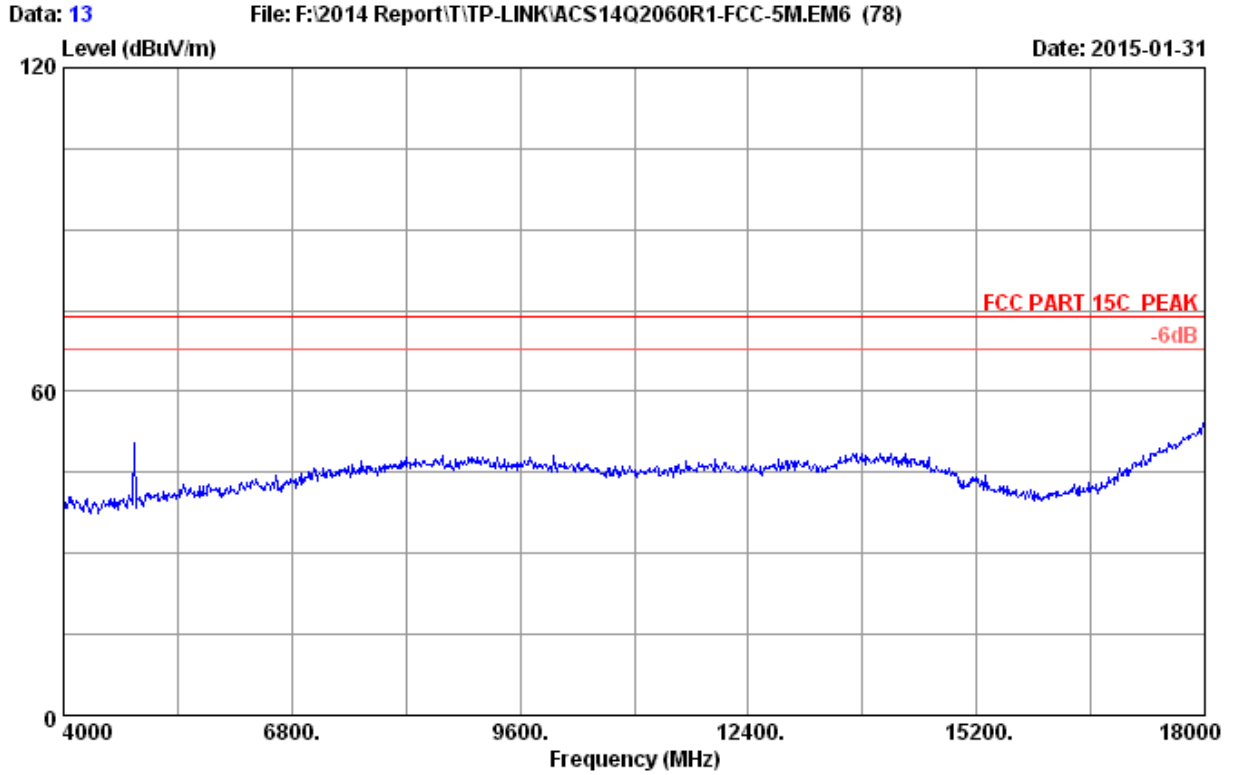
Site no. : 3m Chamber Data no. : 11
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11b 2437 MHz Tx Mode
M/N : CPE220



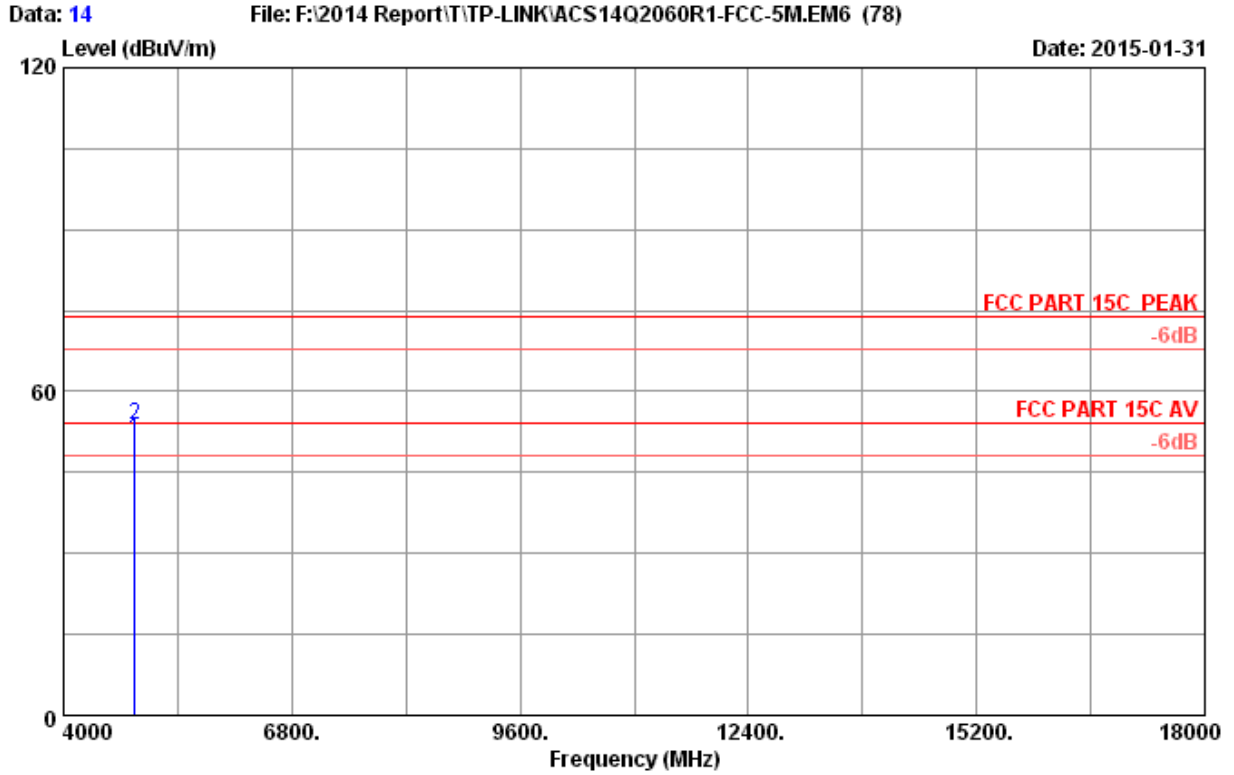
Site no. : 3m Chamber Data no. : 12
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11b 2437 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	32.97	8.63	35.70	47.42	53.32	54.00	0.68	Average
2	4874.000	32.97	8.63	35.70	49.48	55.38	74.00	18.62	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 13
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11b 2437 MHz Tx Mode
M/N : CPE220



Site no. : 3m Chamber Data no. : 14
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11b 2437 MHz Tx Mode
 M/N : CPE220

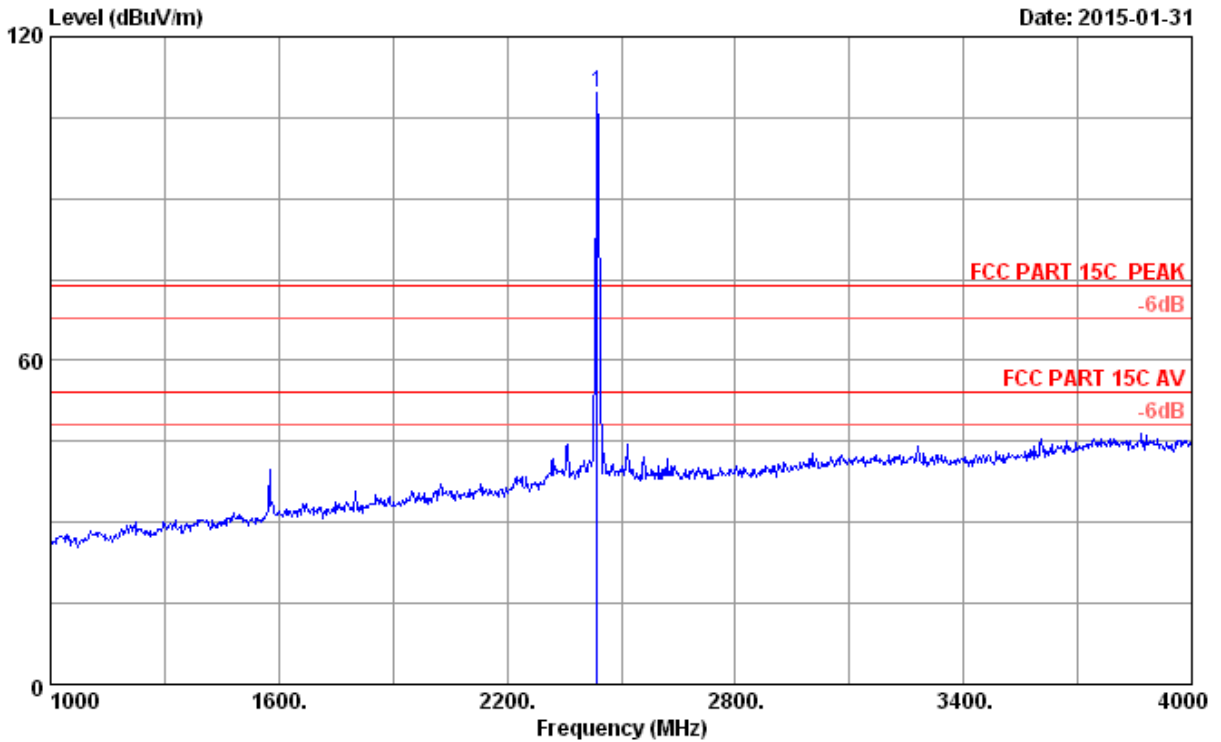
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	32.97	8.63	35.70	45.40	51.30	54.00	2.70	Average
2	4874.000	32.97	8.63	35.70	47.83	53.73	74.00	20.27	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 15

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-5M.EM6 (78)

Date: 2015-01-31



Site no. : 3m Chamber Data no. : 15
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11b 2437 MHz Tx Mode
 M/N : CPE220

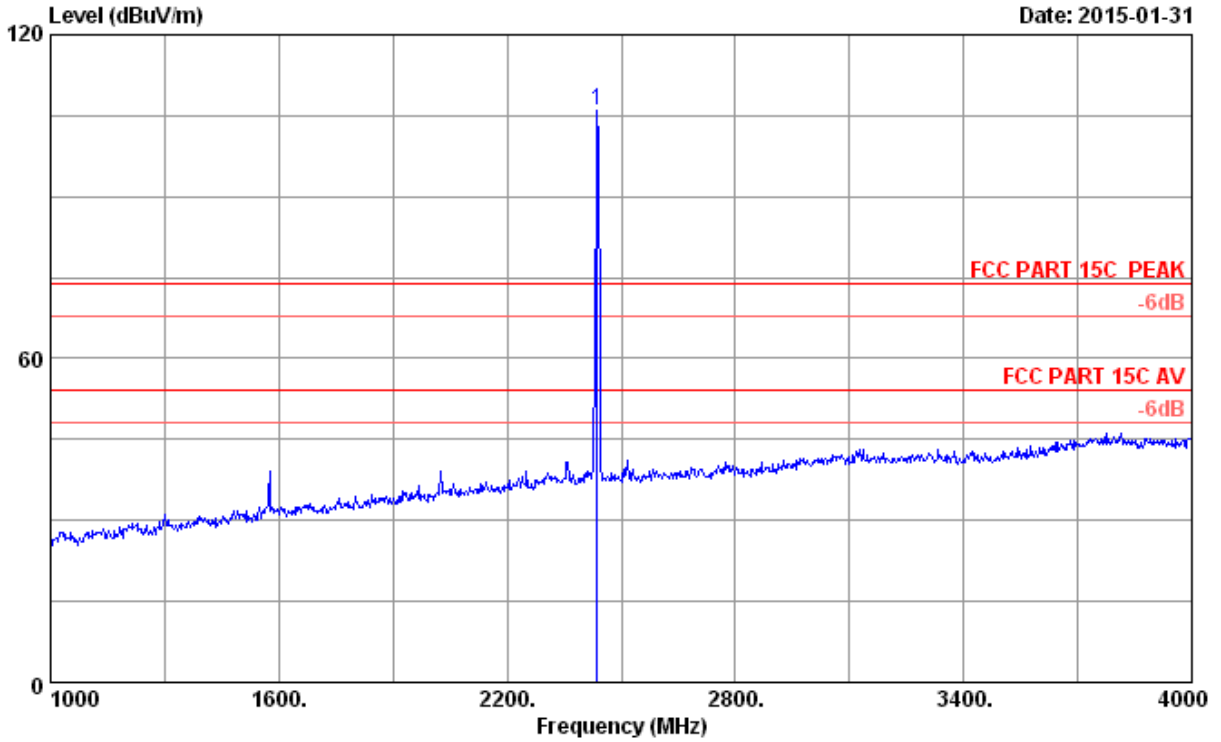
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.000	28.26	5.85	35.70	111.37	109.78	74.00	-35.78	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 16

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-5M.EM6 (78)

Date: 2015-01-31



Site no. : 3m Chamber Data no. : 16
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11b 2437 MHz Tx Mode
 M/N : CPE220

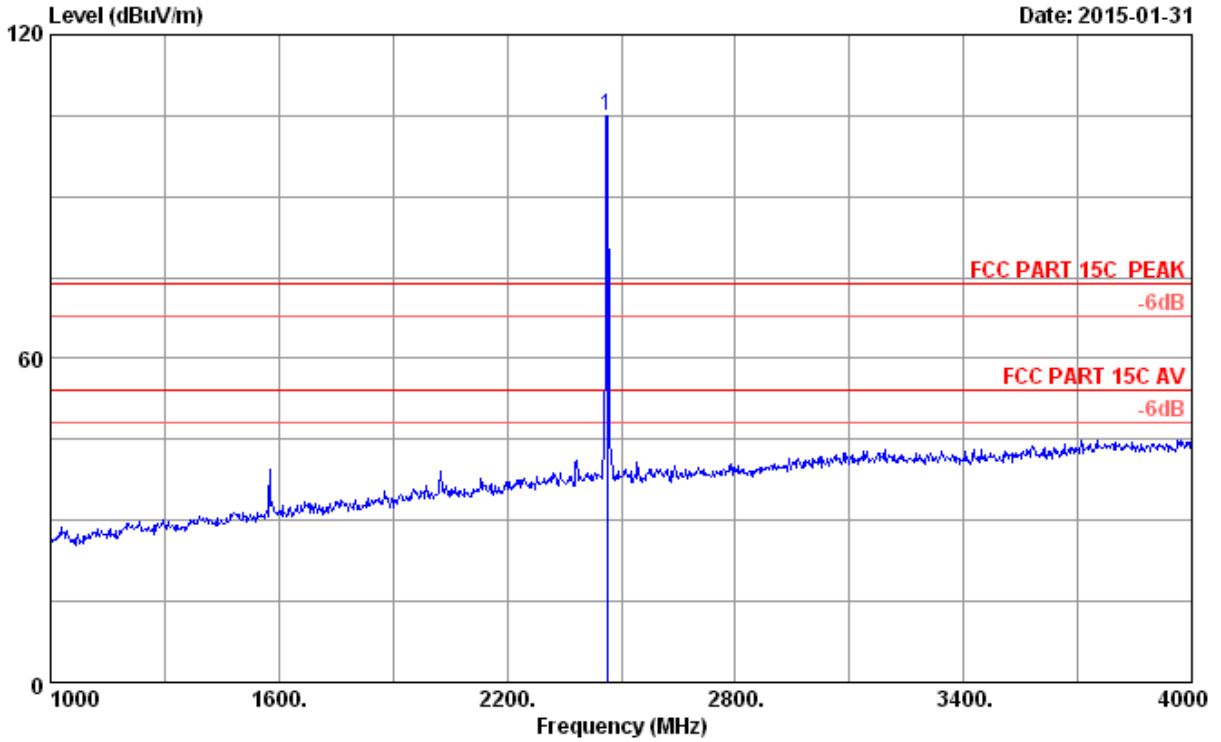
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.000	28.26	5.85	35.70	107.69	106.10	74.00	-32.10	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 17

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-5M.EM6 (78)

Date: 2015-01-31



Site no. : 3m Chamber Data no. : 17
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11b 2462 MHz Tx Mode
 M/N : CPE220

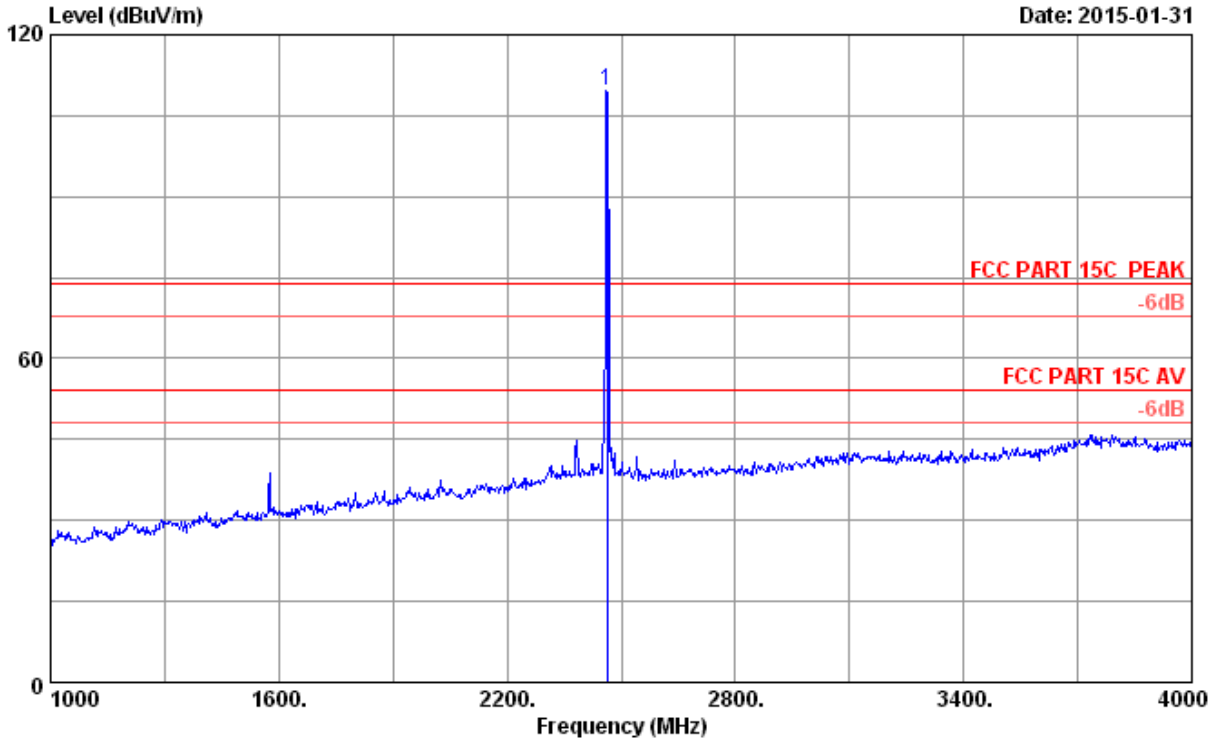
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.000	28.32	5.89	35.70	106.44	104.95	74.00	-30.95	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 18

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-5M.EM6 (78)

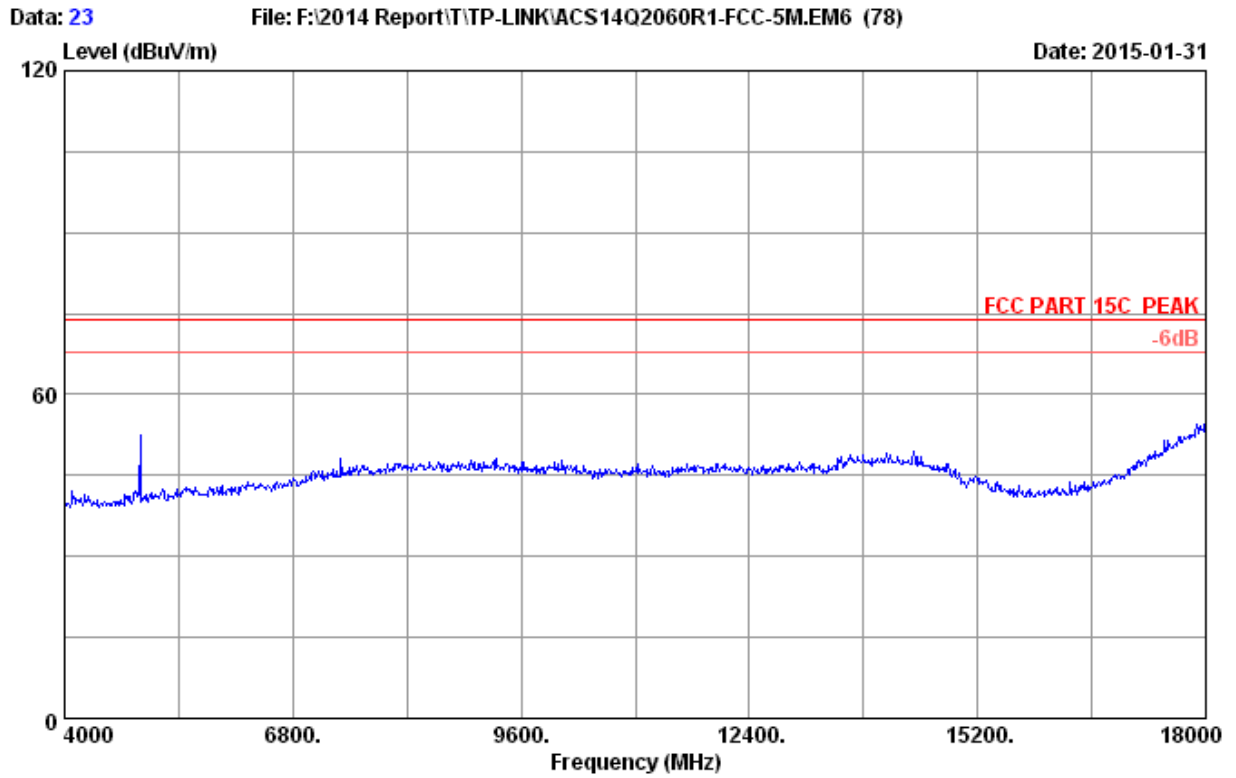
Date: 2015-01-31



Site no. : 3m Chamber Data no. : 18
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11b 2462 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.000	28.32	5.89	35.70	111.15	109.66	74.00	-35.66	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

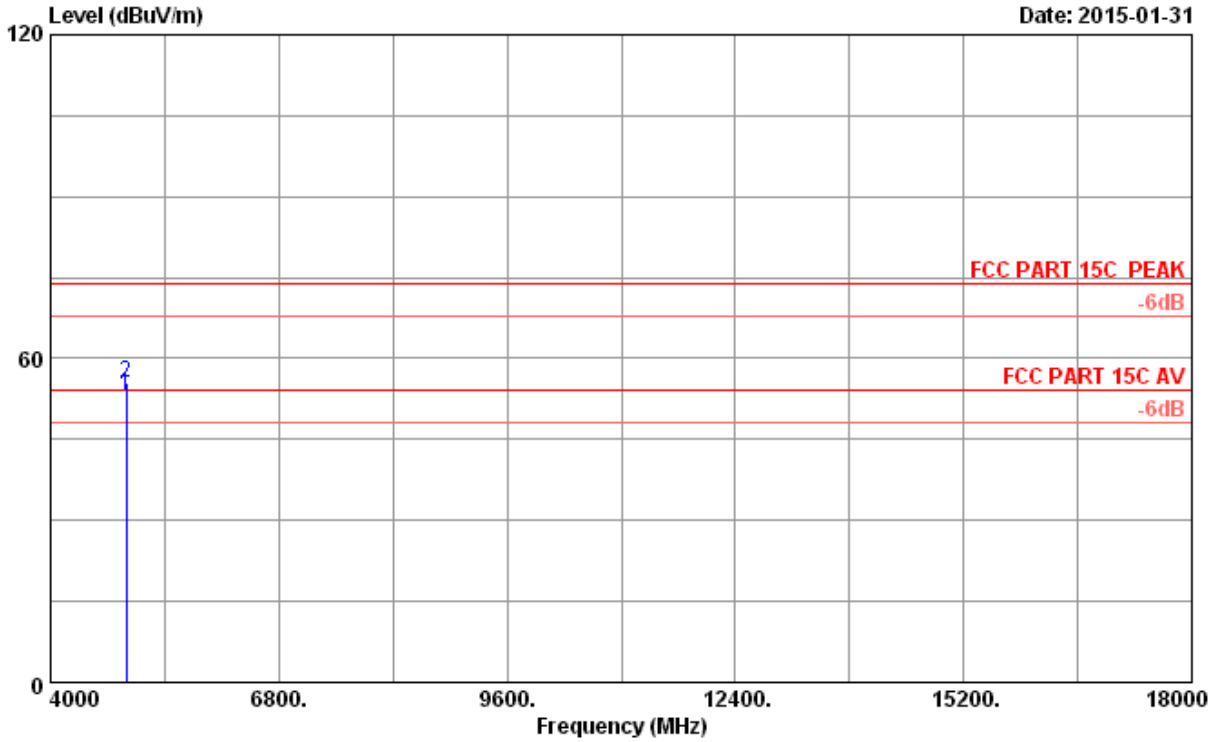


Site no. : 3m Chamber Data no. : 23
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11b 2462 MHz Tx Mode
M/N : CPE220

Data: 24

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-5M.EM6 (78)

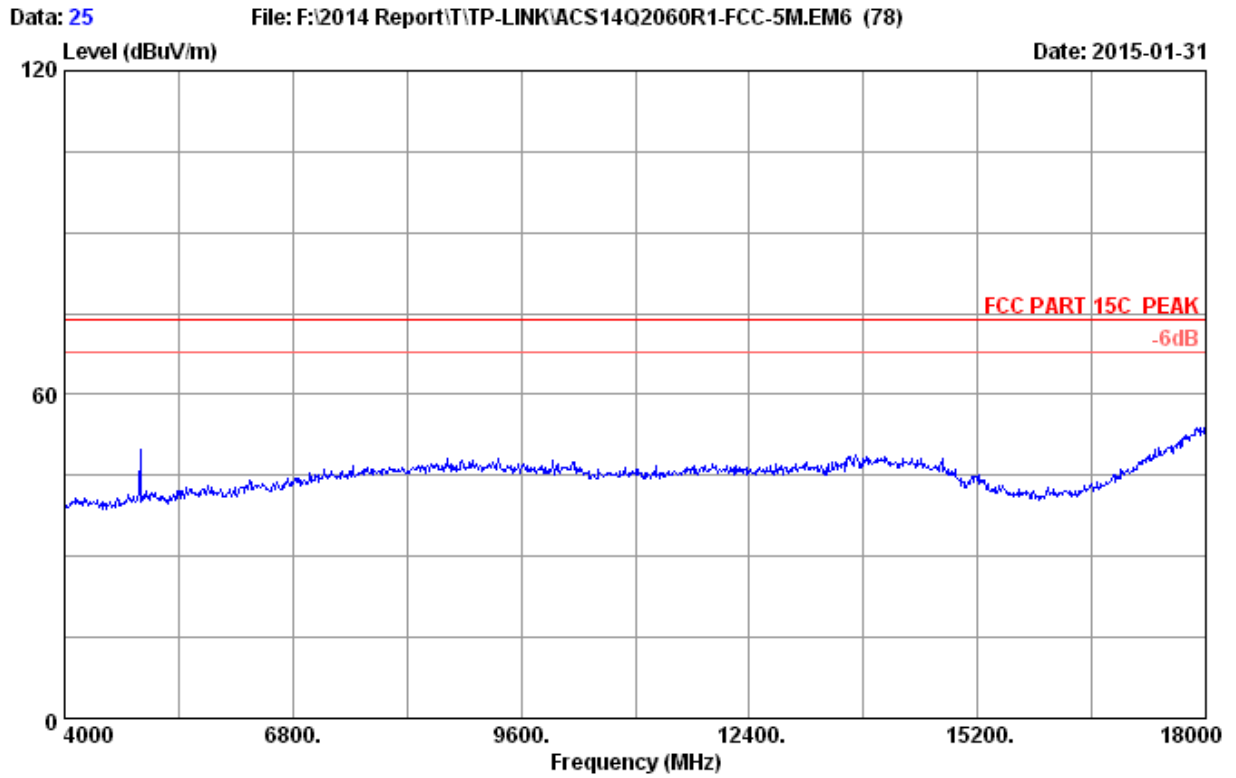
Date: 2015-01-31



Site no. : 3m Chamber Data no. : 24
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11b 2462 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.000	33.06	8.69	35.70	47.01	53.06	54.00	0.94	Average
2	4924.000	33.06	8.69	35.70	49.52	55.57	74.00	18.43	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

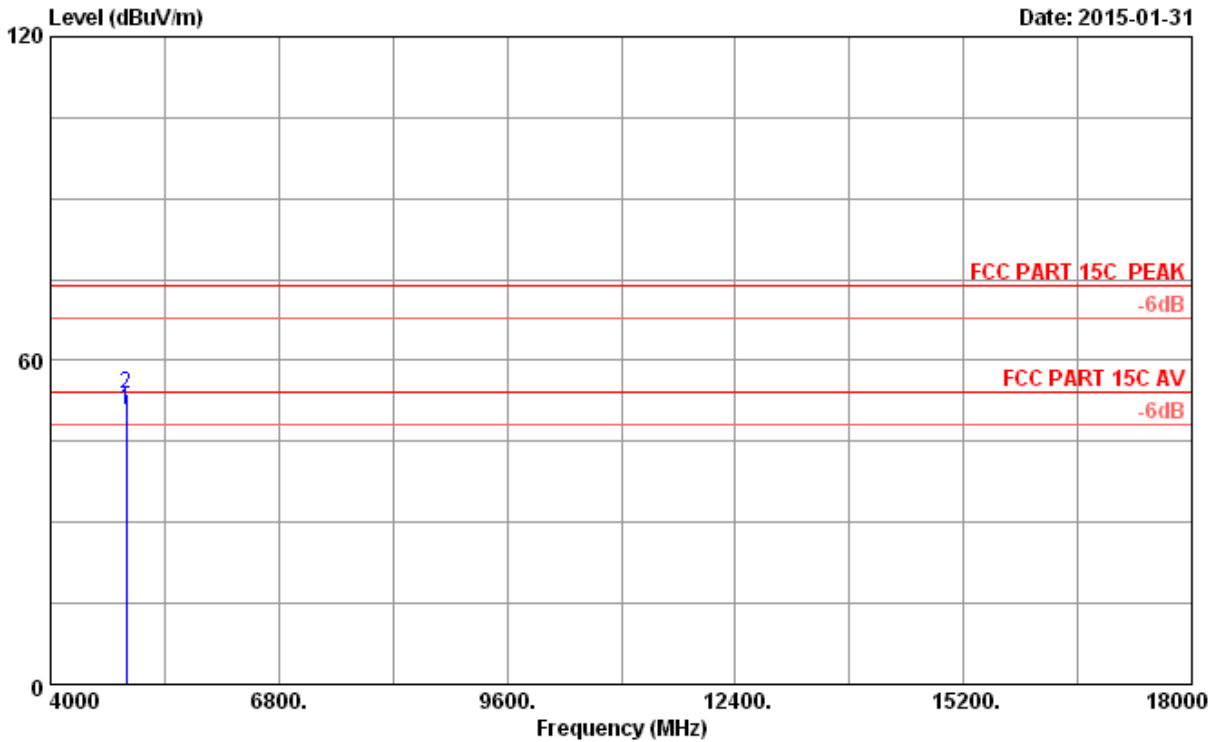


Site no. : 3m Chamber Data no. : 25
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11b 2462 MHz Tx Mode
M/N : CPE220

Data: 26

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-5MLEM6 (78)

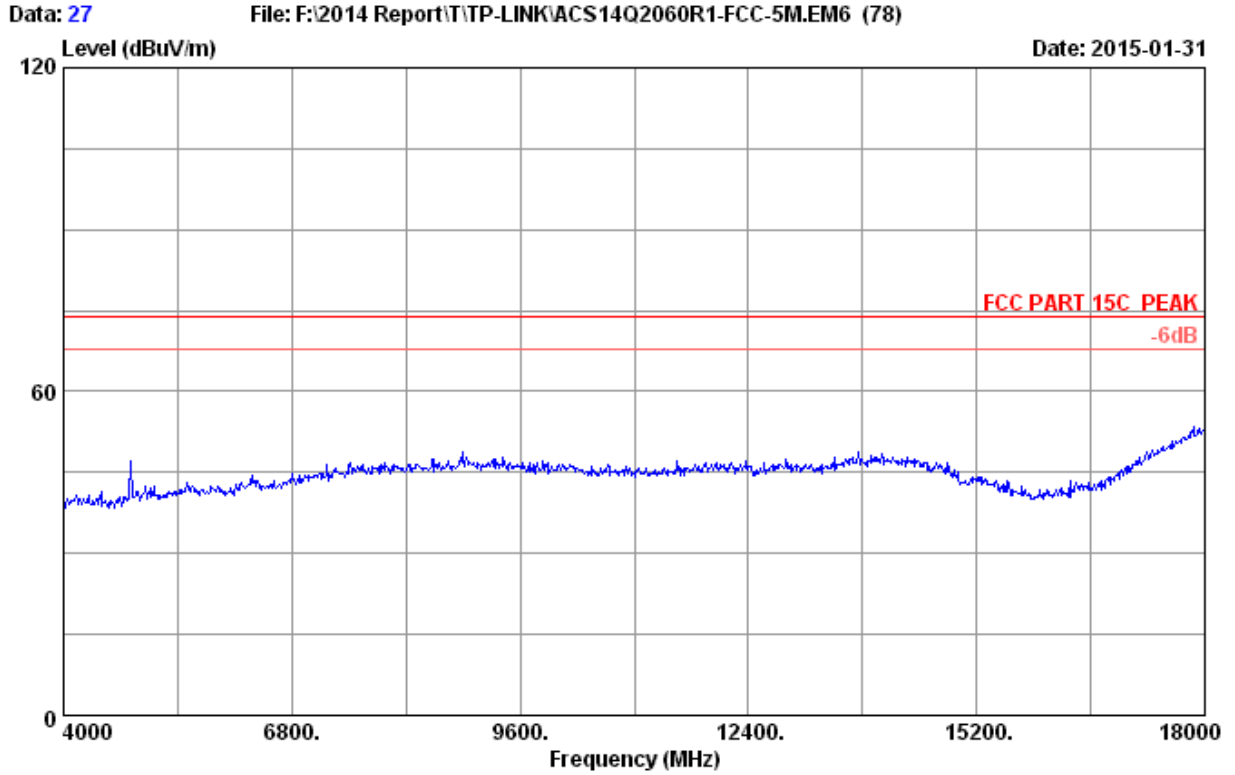
Date: 2015-01-31



Site no. : 3m Chamber Data no. : 26
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11b 2462 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.000	33.06	8.69	35.70	44.67	50.72	54.00	3.28	Average
2	4924.000	33.06	8.69	35.70	47.64	53.69	74.00	20.31	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

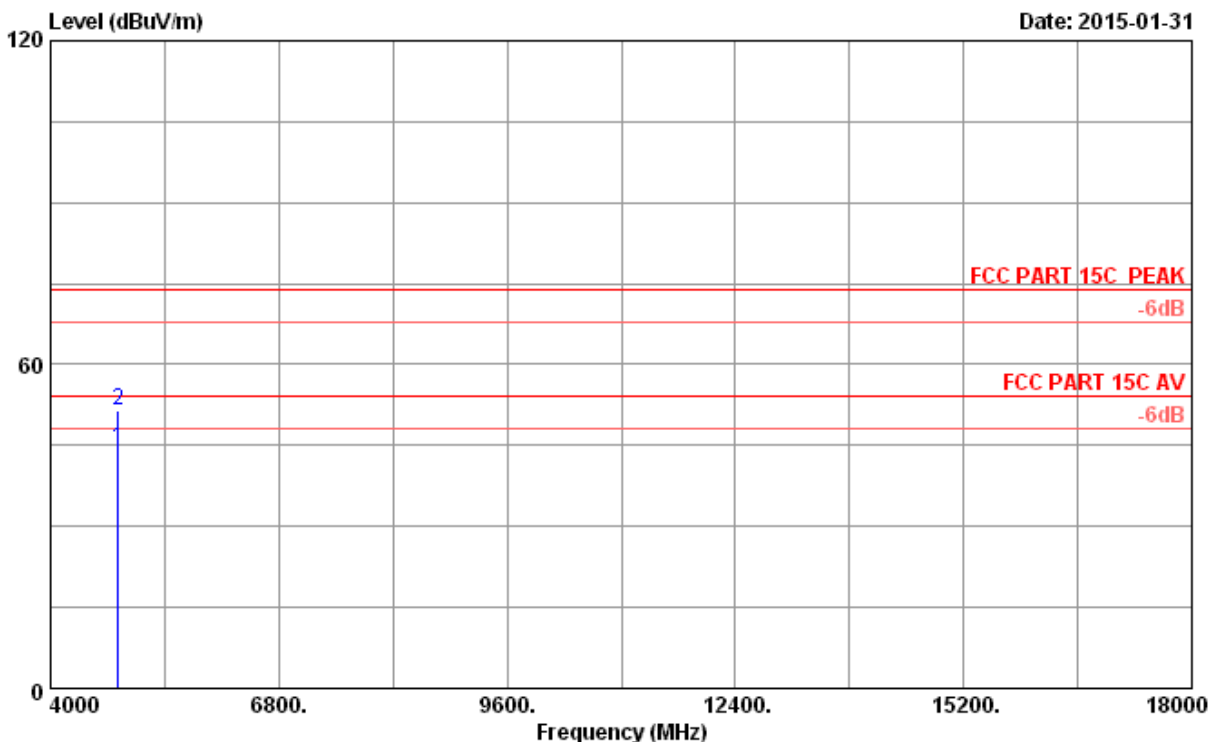


Site no. : 3m Chamber Data no. : 27
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11g 2412 MHz Tx Mode
M/N : CPE220

Data: 28

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-5MLEM6 (78)

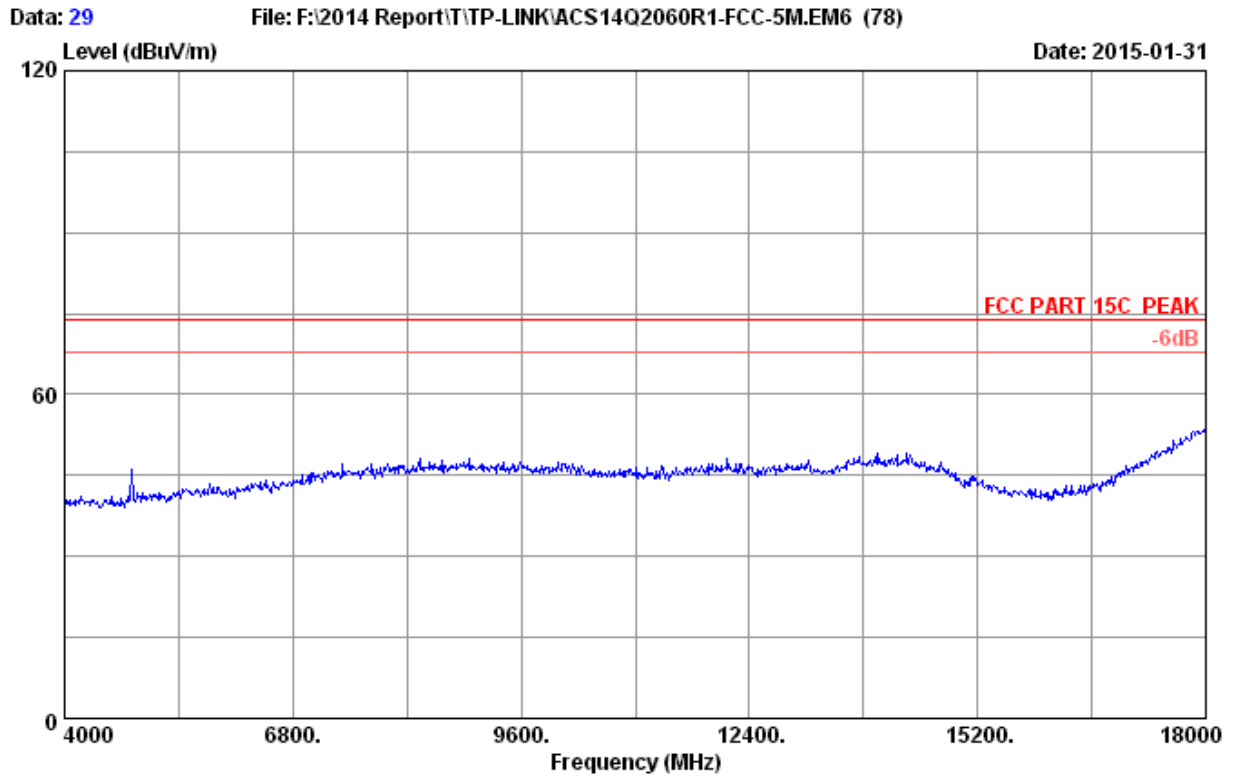
Date: 2015-01-31



Site no. : 3m Chamber Data no. : 28
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11g 2412 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.000	32.88	8.58	35.70	38.62	44.38	54.00	9.62	Average
2	4824.000	32.88	8.58	35.70	45.65	51.41	74.00	22.59	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

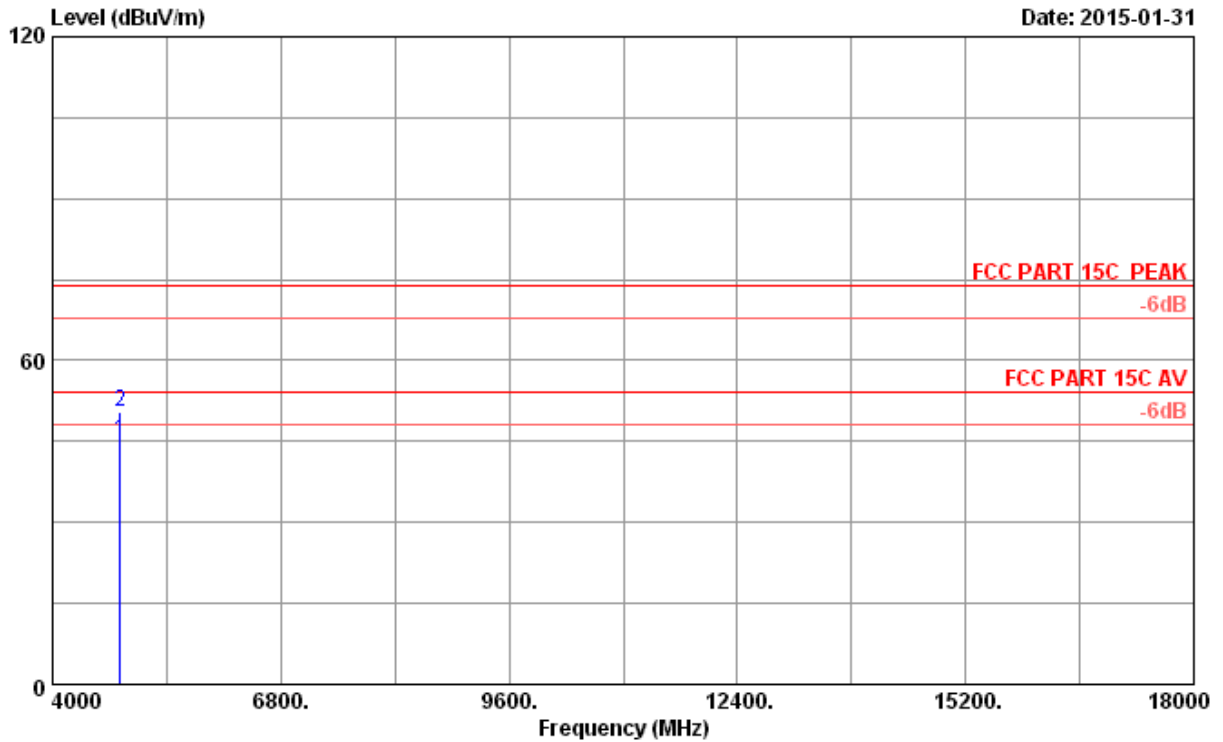


Site no. : 3m Chamber Data no. : 29
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11g 2412 MHz Tx Mode
M/N : CPE220

Data: 30

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-5MLEM6 (78)

Date: 2015-01-31



Site no. : 3m Chamber Data no. : 30
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11g 2412 MHz Tx Mode
 M/N : CPE220

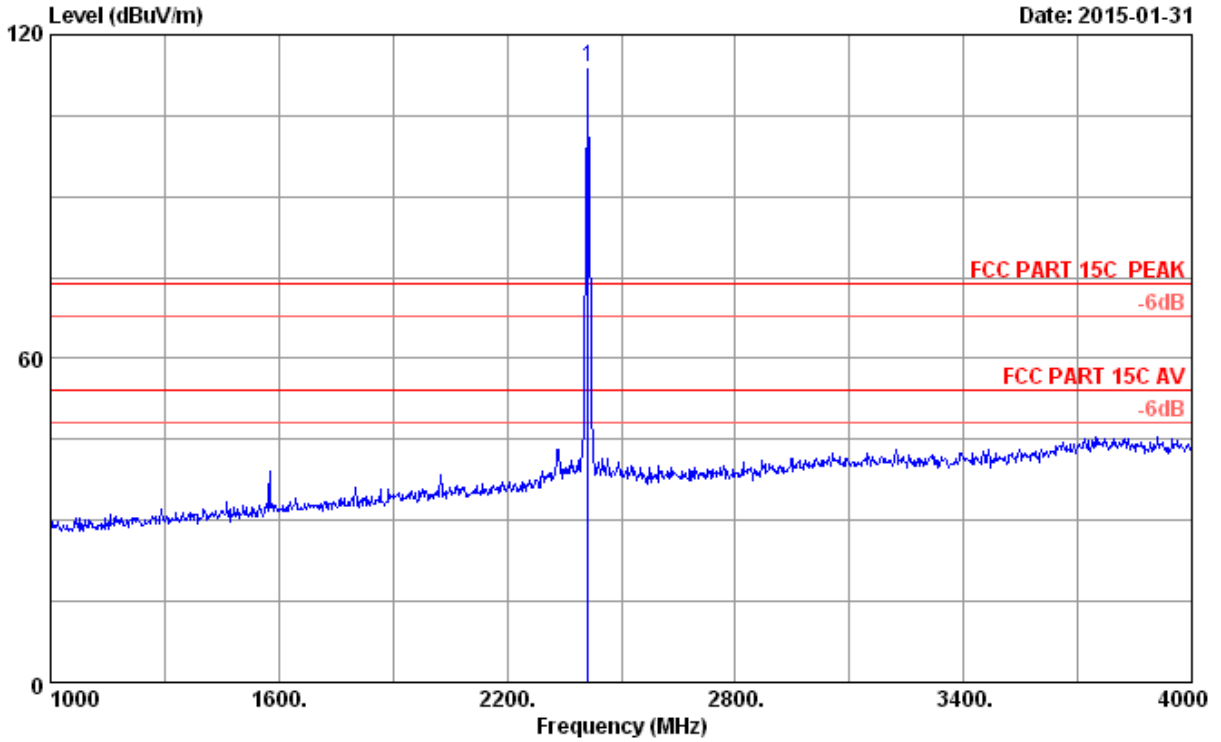
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.000	32.88	8.58	35.70	39.41	45.17	54.00	8.83	Average
2	4824.000	32.88	8.58	35.70	44.62	50.38	74.00	23.62	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 31

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-5M.EM6 (78)

Date: 2015-01-31



Site no. : 3m Chamber Data no. : 31
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11g 2412 MHz Tx Mode
 M/N : CPE220

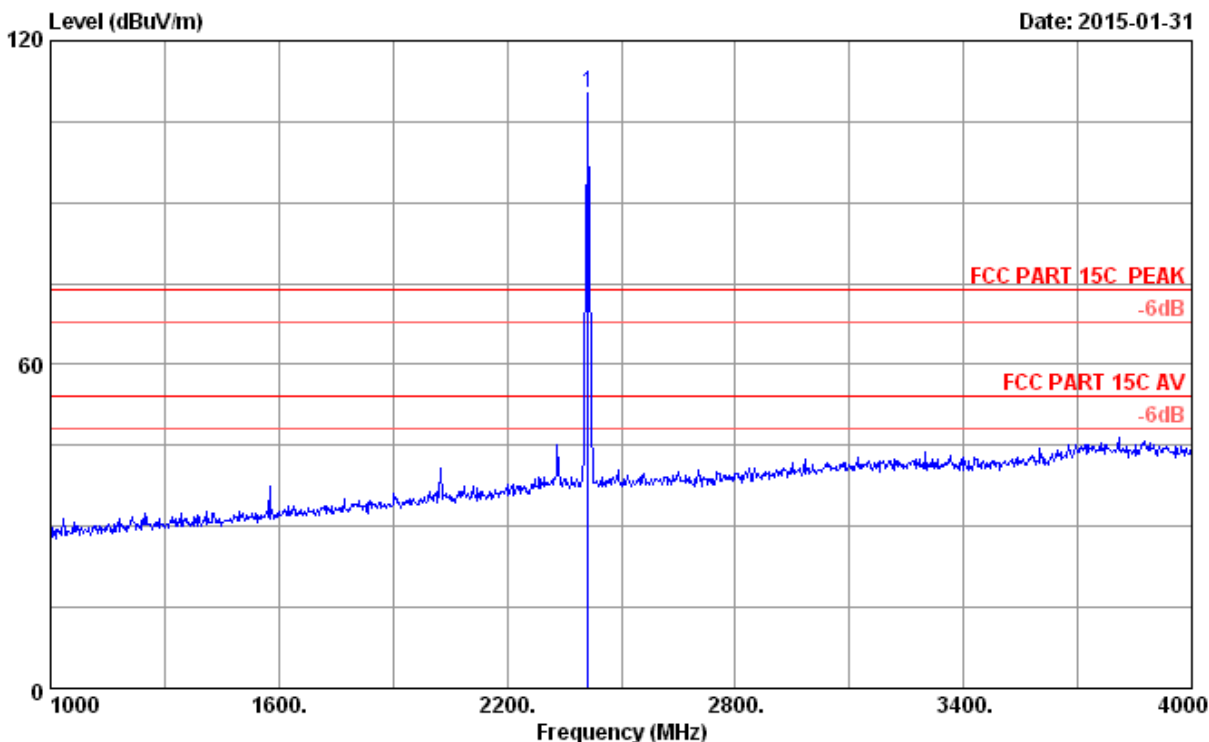
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.000	28.21	5.81	35.70	115.58	113.90	74.00	-39.90	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 32

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-5MLEM6 (78)

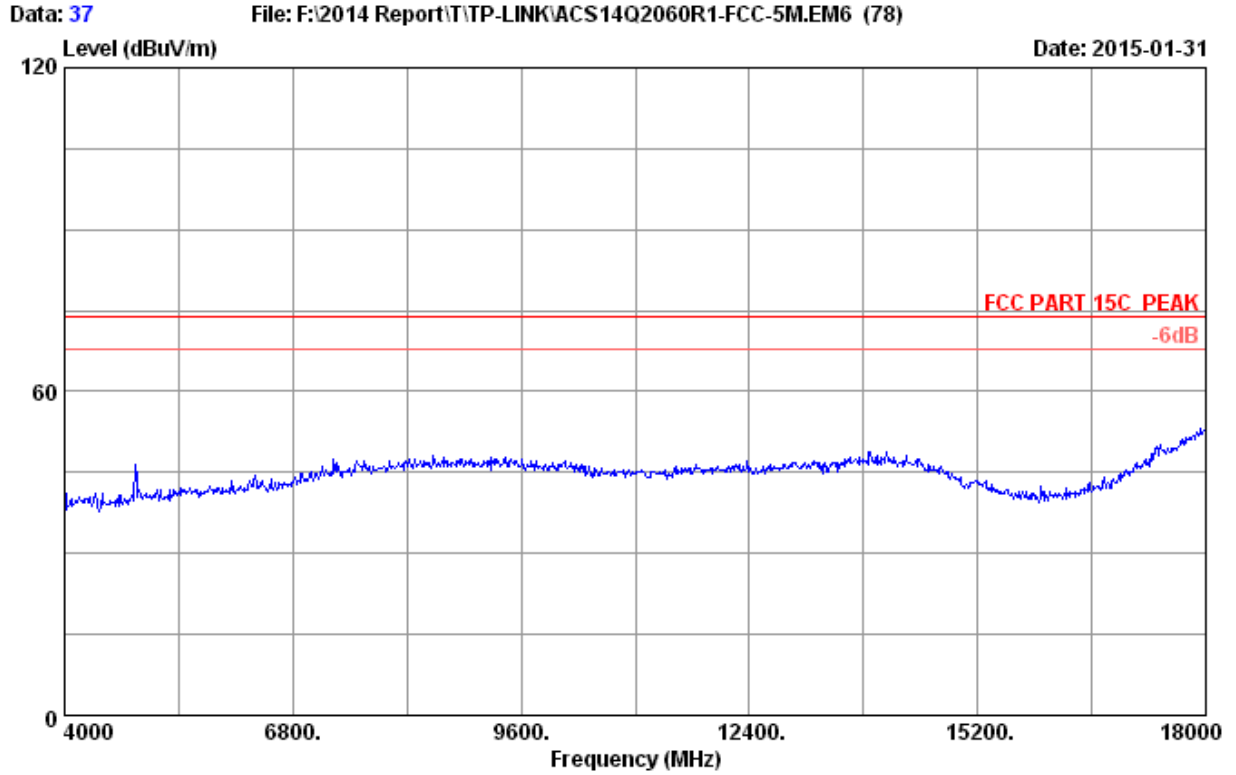
Date: 2015-01-31



Site no. : 3m Chamber Data no. : 32
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11g 2412 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.000	28.21	5.81	35.70	112.08	110.40	74.00	-36.40	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

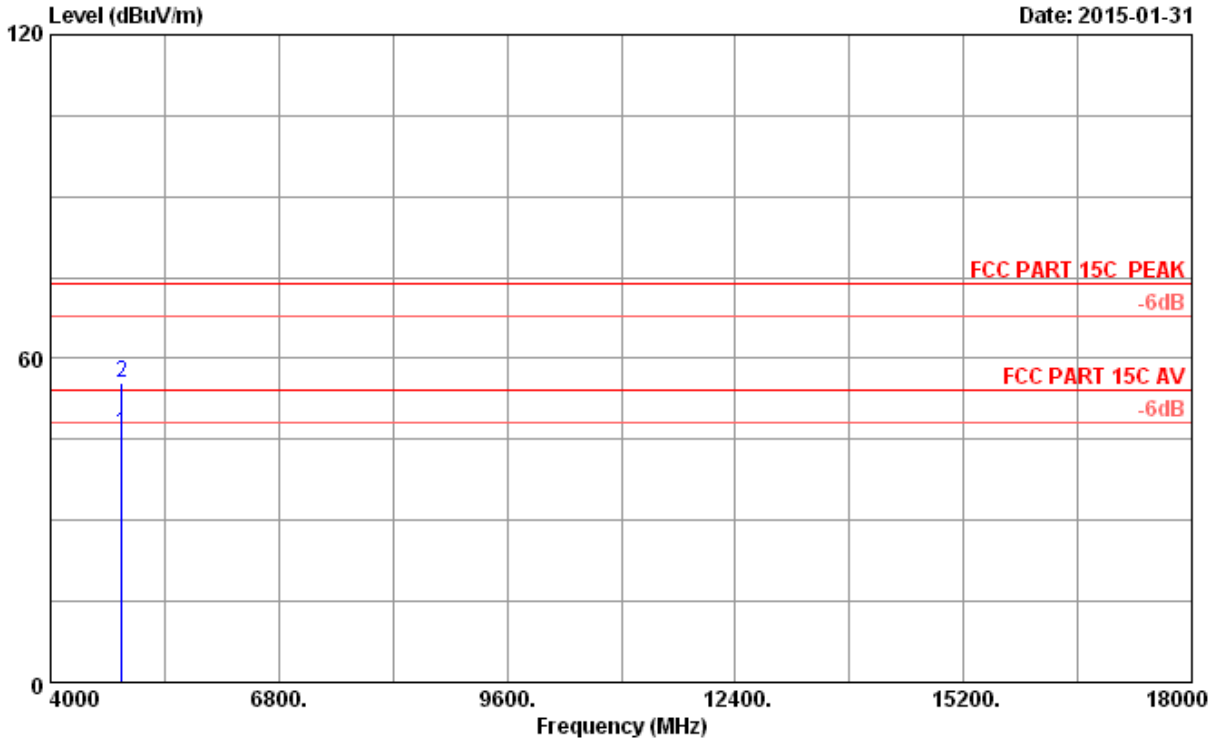


Site no. : 3m Chamber Data no. : 37
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11g 2437 MHz Tx Mode
M/N : CPE220

Data: 38

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-5M.EM6 (78)

Date: 2015-01-31



Site no. : 3m Chamber Data no. : 38
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11g 2437 MHz Tx Mode
 M/N : CPE220

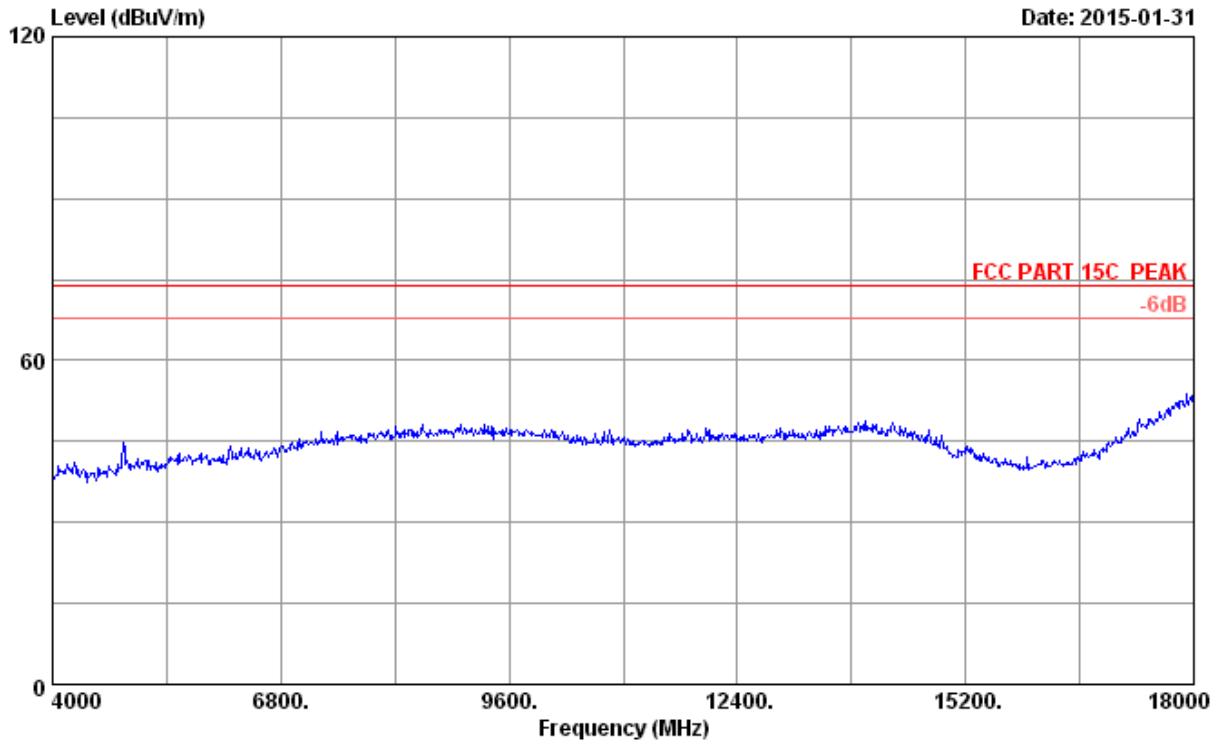
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	32.97	8.63	35.70	40.22	46.12	54.00	7.88	Average
2	4874.000	32.97	8.63	35.70	49.54	55.44	74.00	18.56	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 39

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-5M.EM6 (78)

Date: 2015-01-31

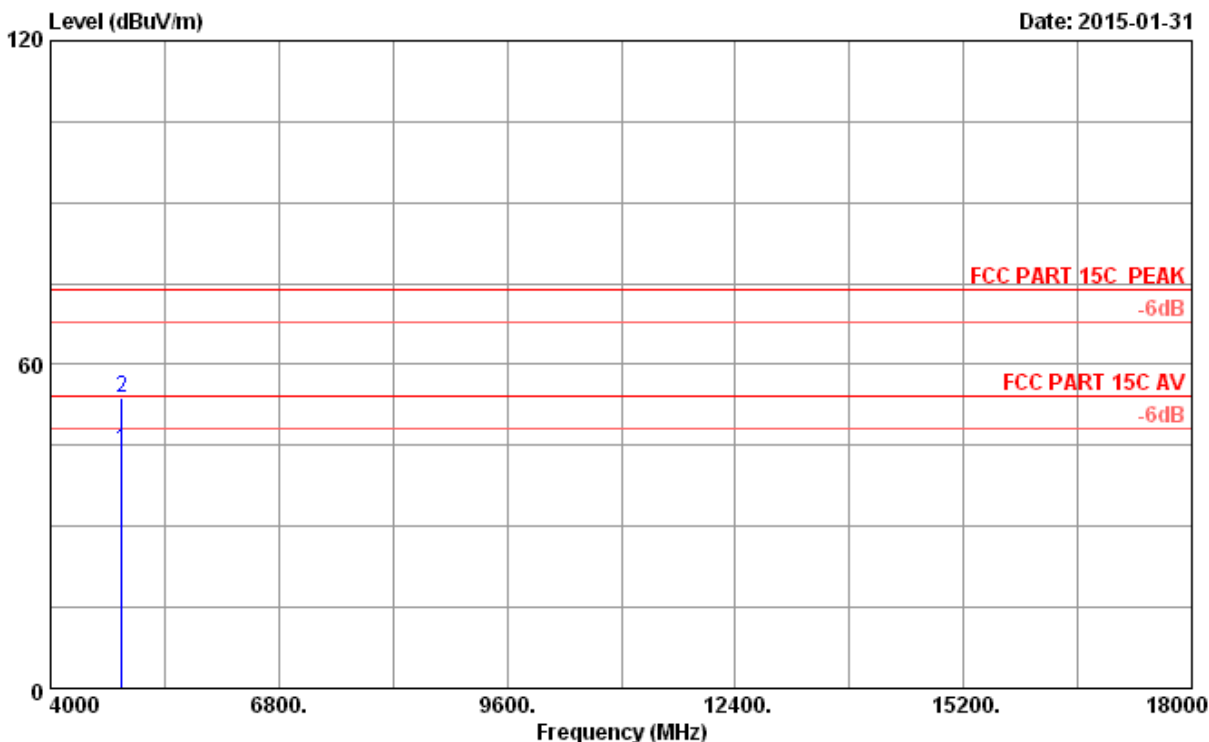


Site no. : 3m Chamber Data no. : 39
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11g 2437 MHz Tx Mode
M/N : CPE220

Data: 40

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-5MLEM6 (78)

Date: 2015-01-31



Site no. : 3m Chamber Data no. : 40
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11g 2437 MHz Tx Mode
 M/N : CPE220

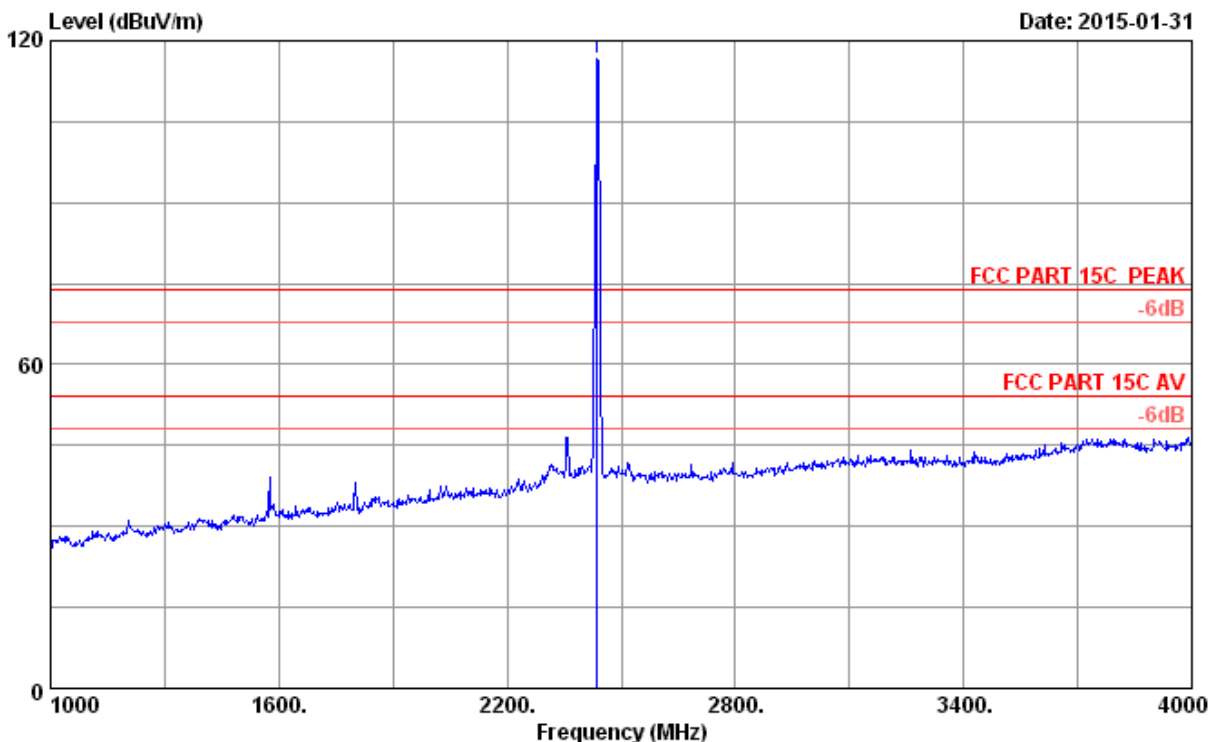
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	32.97	8.63	35.70	38.09	43.99	54.00	10.01	Average
2	4874.000	32.97	8.63	35.70	48.01	53.91	74.00	20.09	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 41

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-5MLEM6 (78)

Date: 2015-01-31



Site no. : 3m Chamber Data no. : 41
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11g 2437 MHz Tx Mode
 M/N : CPE220

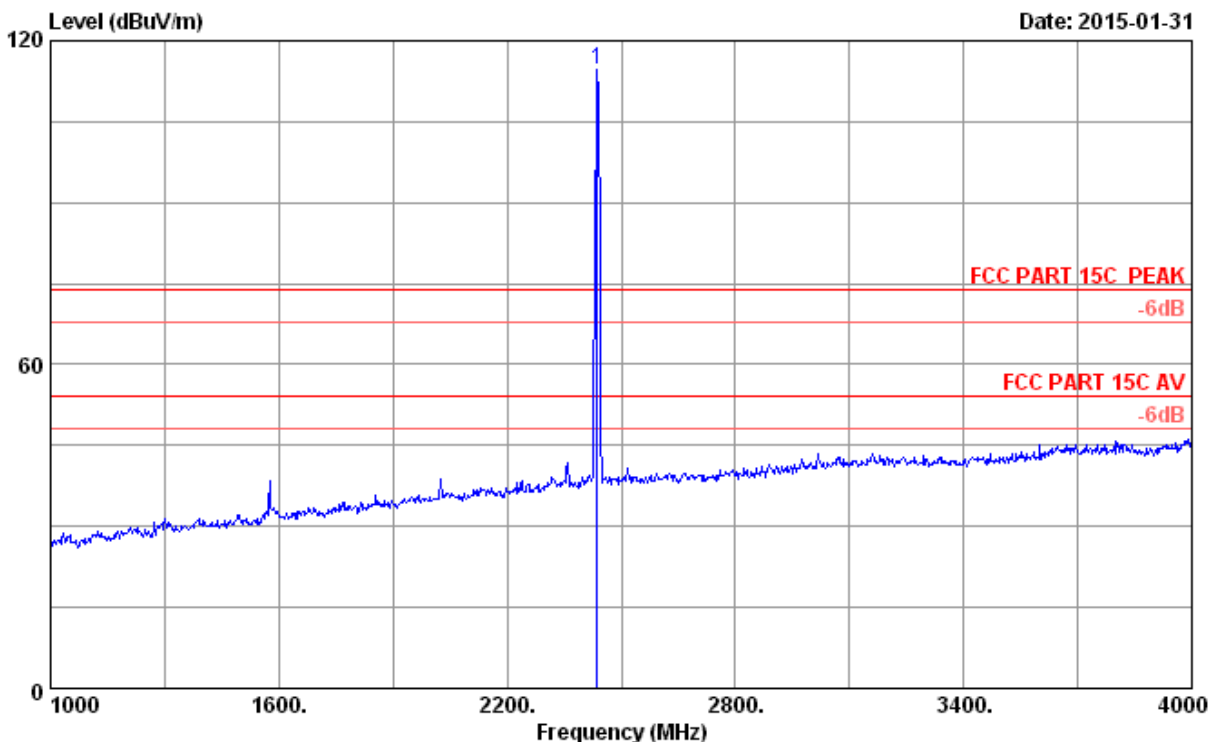
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.000	28.26	5.85	35.70	118.24	116.65	74.00	-42.65	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 42

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-5M.EM6 (78)

Date: 2015-01-31



Site no. : 3m Chamber Data no. : 42
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11g 2437 MHz Tx Mode
 M/N : CPE220

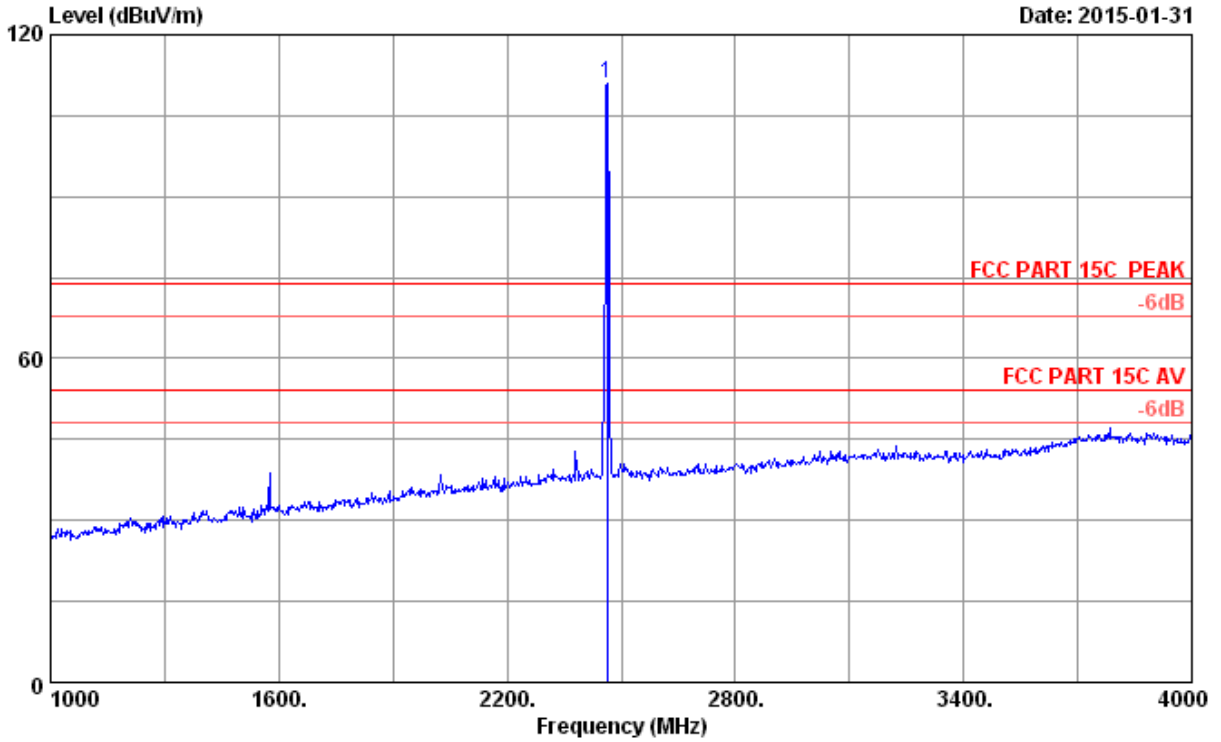
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.000	28.26	5.85	35.70	116.23	114.64	74.00	-40.64	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 43

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-5MLEM6 (78)

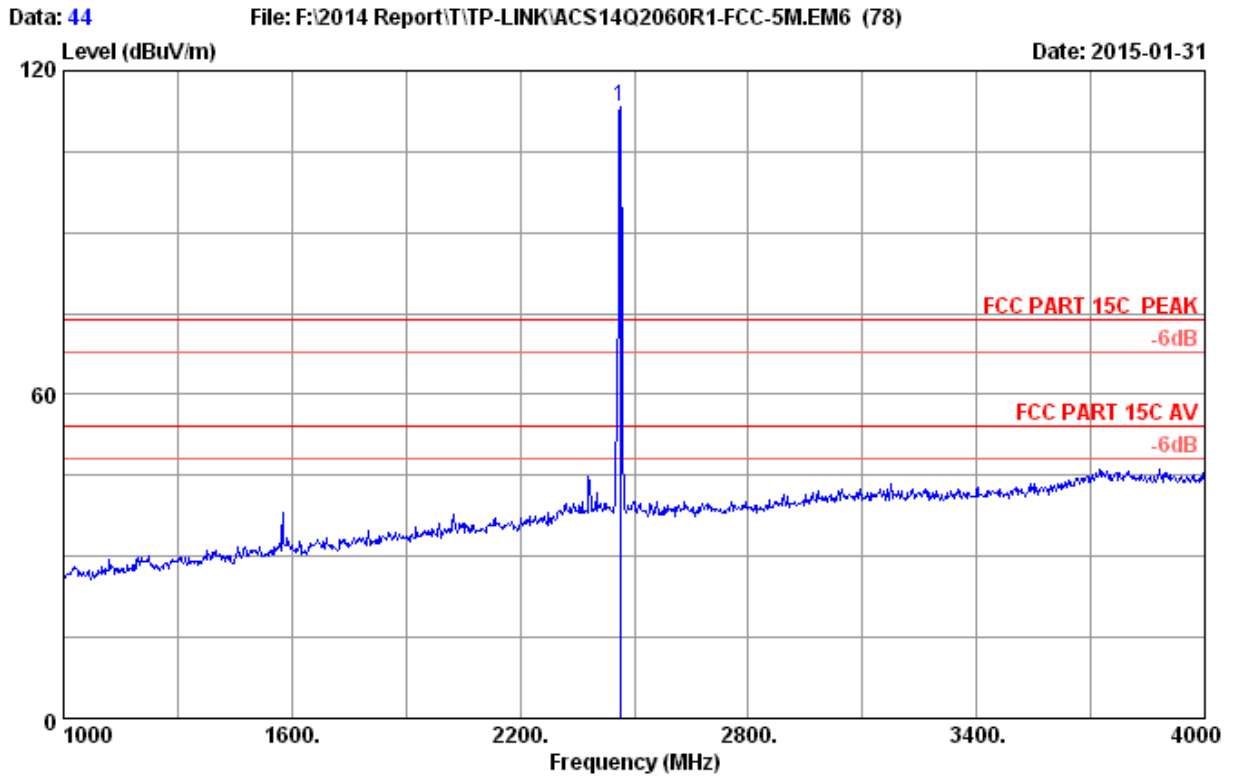
Date: 2015-01-31



Site no. : 3m Chamber Data no. : 43
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11g 2462 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission			Remark
						Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	2462.000	28.32	5.89	35.70	112.36	110.87	74.00	-36.87	Peak

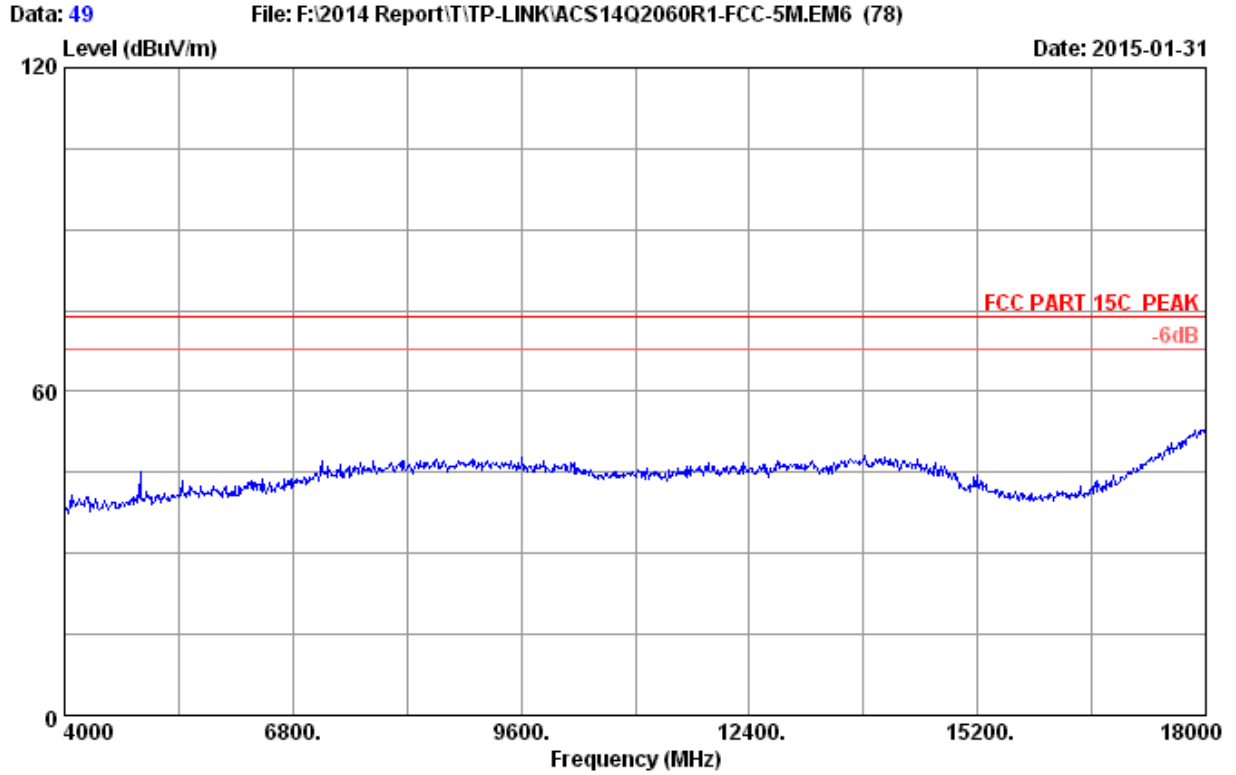
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



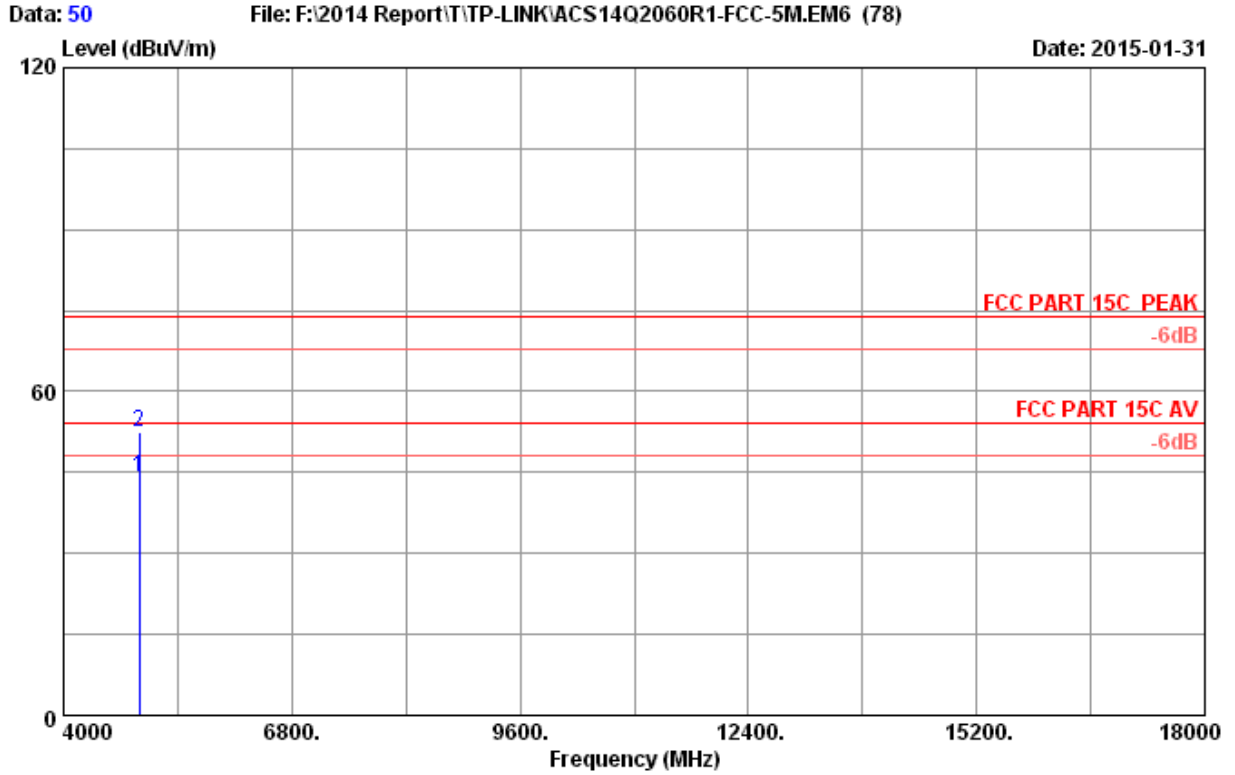
Site no. : 3m Chamber Data no. : 44
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11g 2462 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.000	28.32	5.89	35.70	114.73	113.24	74.00	-39.24	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



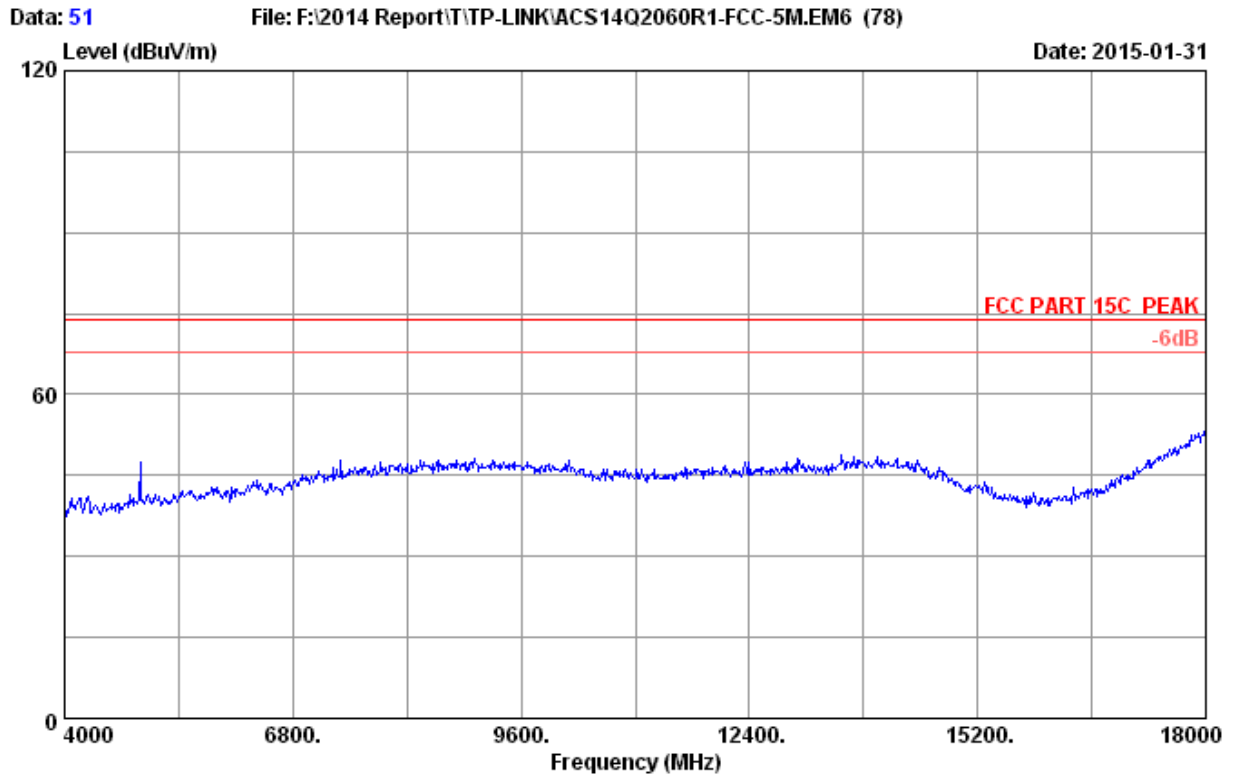
Site no. : 3m Chamber Data no. : 49
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11g 2462 MHz Tx Mode
M/N : CPE220



Site no. : 3m Chamber Data no. : 50
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11g 2462 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.000	33.06	8.69	35.70	38.15	44.20	54.00	9.80	Average
2	4924.000	33.06	8.69	35.70	46.32	52.37	74.00	21.63	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



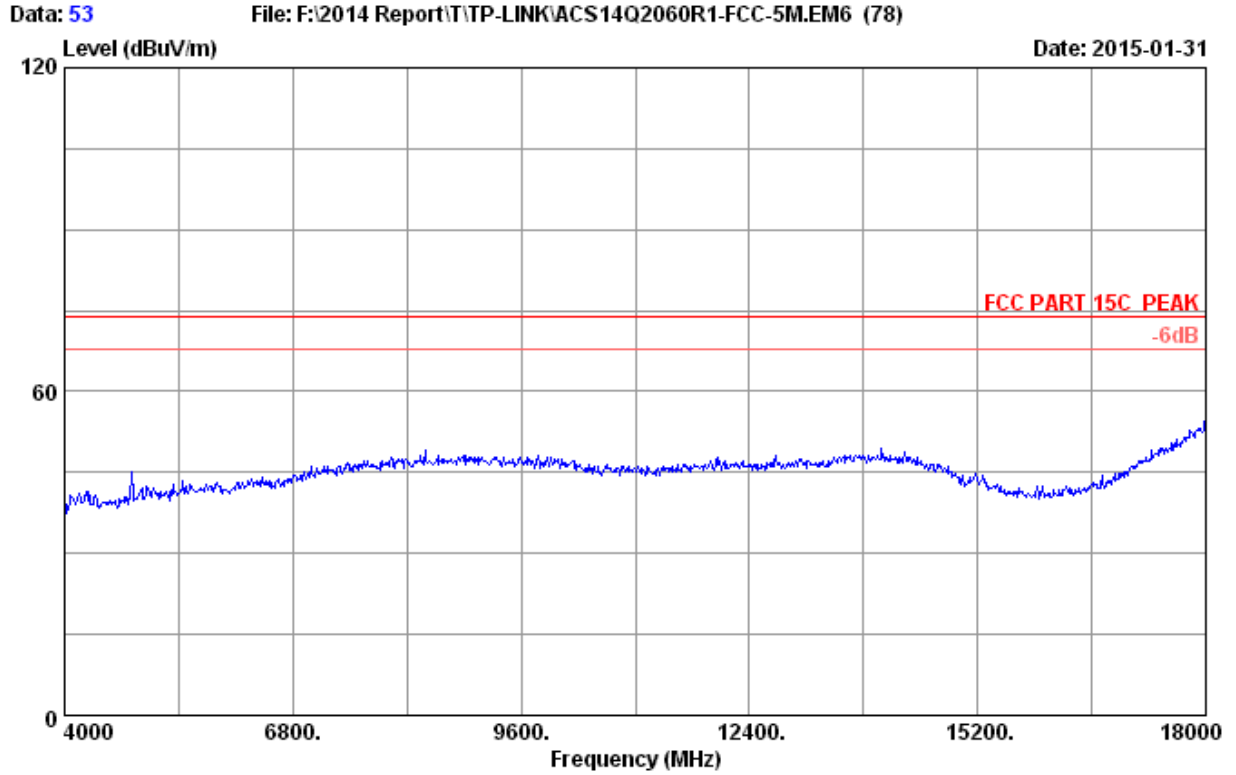
Site no. : 3m Chamber Data no. : 51
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11g 2462 MHz Tx Mode
M/N : CPE220



Site no. : 3m Chamber Data no. : 52
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11g 2462 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.000	33.06	8.69	35.70	40.40	46.45	54.00	7.55	Average
2	4924.000	33.06	8.69	35.70	47.96	54.01	74.00	19.99	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



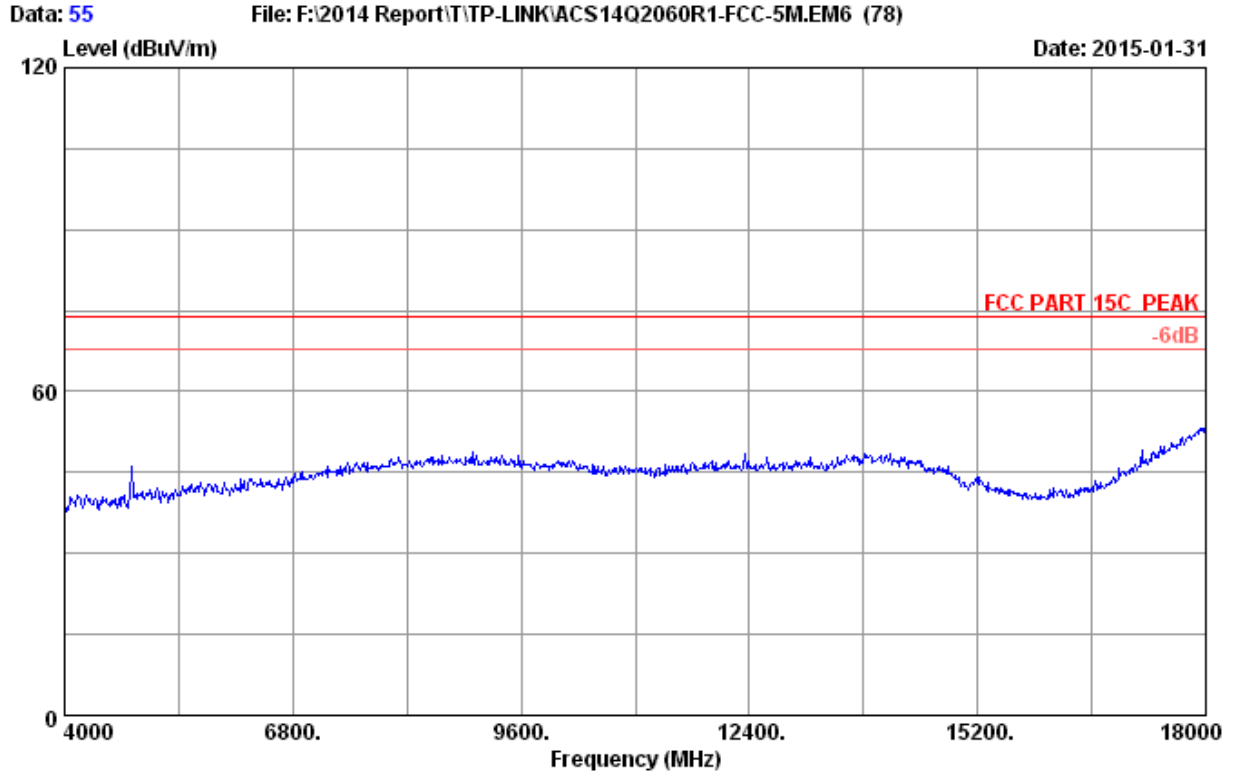
Site no. : 3m Chamber Data no. : 53
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11nHT20 2412 MHz Tx Mode
M/N : CPE220



Site no. : 3m Chamber Data no. : 54
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2412 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.000	32.88	8.58	35.70	40.82	46.58	54.00	7.42	Average
2	4824.000	32.88	8.58	35.70	48.71	54.47	74.00	19.53	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 55
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11nHT20 2412 MHz Tx Mode
M/N : CPE220



Site no. : 3m Chamber Data no. : 56
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2412 MHz Tx Mode
 M/N : CPE220

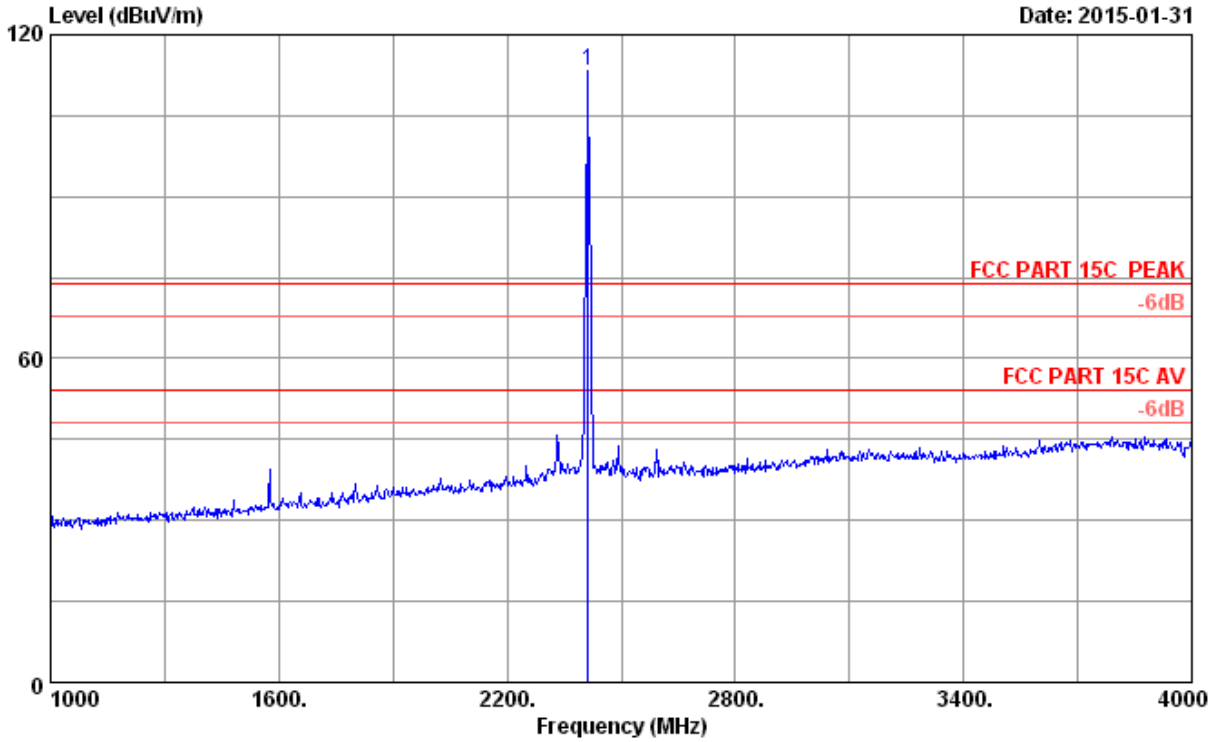
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.000	32.88	8.58	35.70	40.21	45.97	54.00	8.03	Average
2	4824.000	32.88	8.58	35.70	47.67	53.43	74.00	20.57	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 57

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-5MLEM6 (78)

Date: 2015-01-31



Site no. : 3m Chamber Data no. : 57
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2412 MHz Tx Mode
 M/N : CPE220

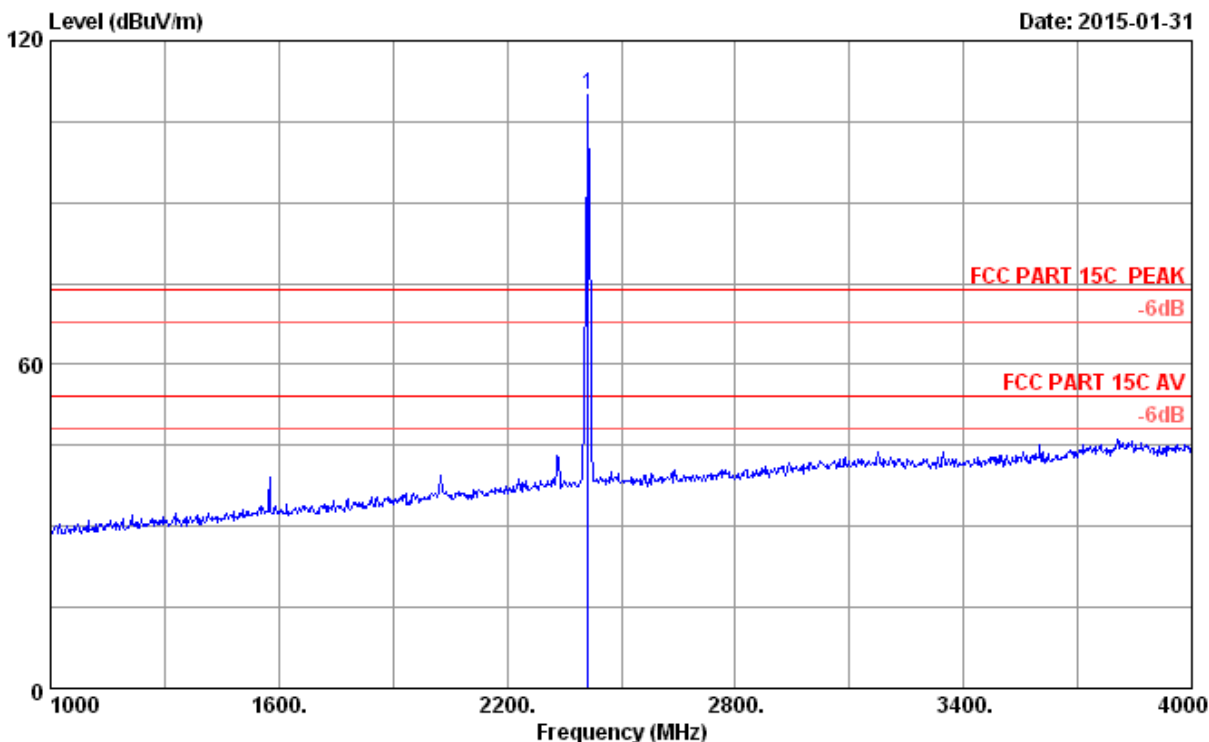
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.000	28.21	5.81	35.70	115.13	113.45	74.00	-39.45	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 58

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-5M.EM6 (78)

Date: 2015-01-31



Site no. : 3m Chamber Data no. : 58
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2412 MHz Tx Mode
 M/N : CPE220

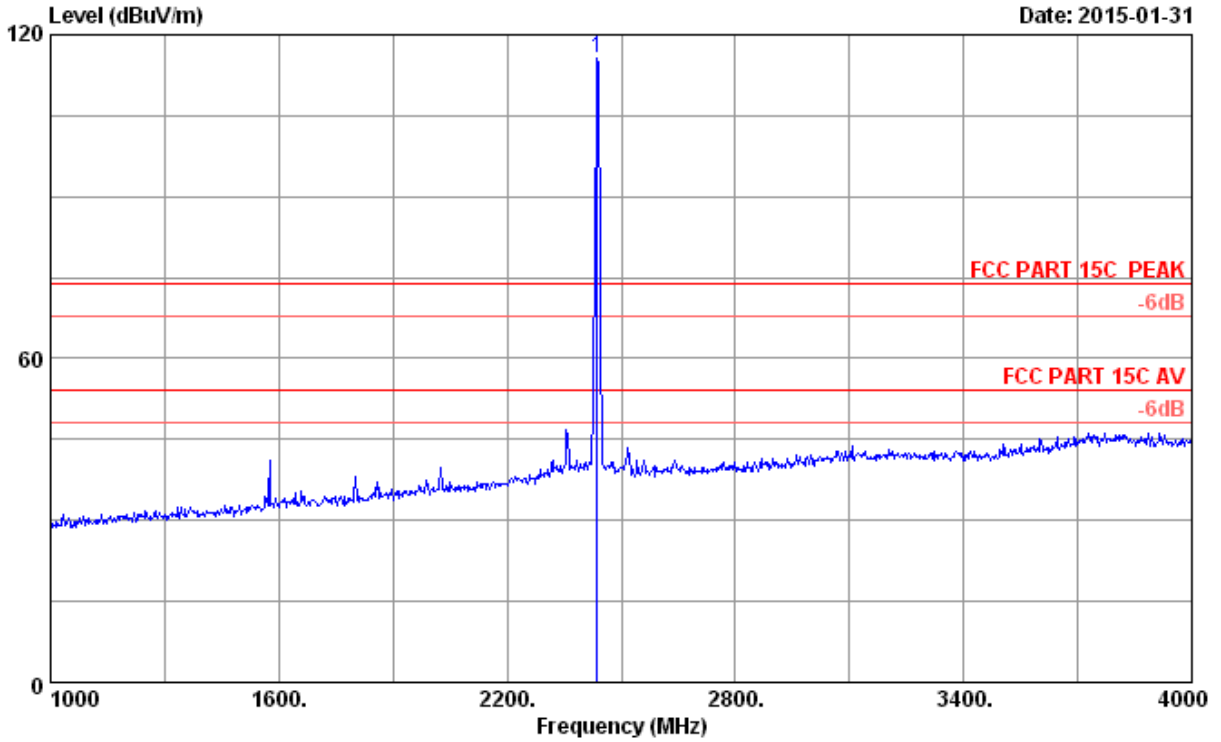
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.000	28.21	5.81	35.70	111.51	109.83	74.00	-35.83	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 63

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-5MLEM6 (78)

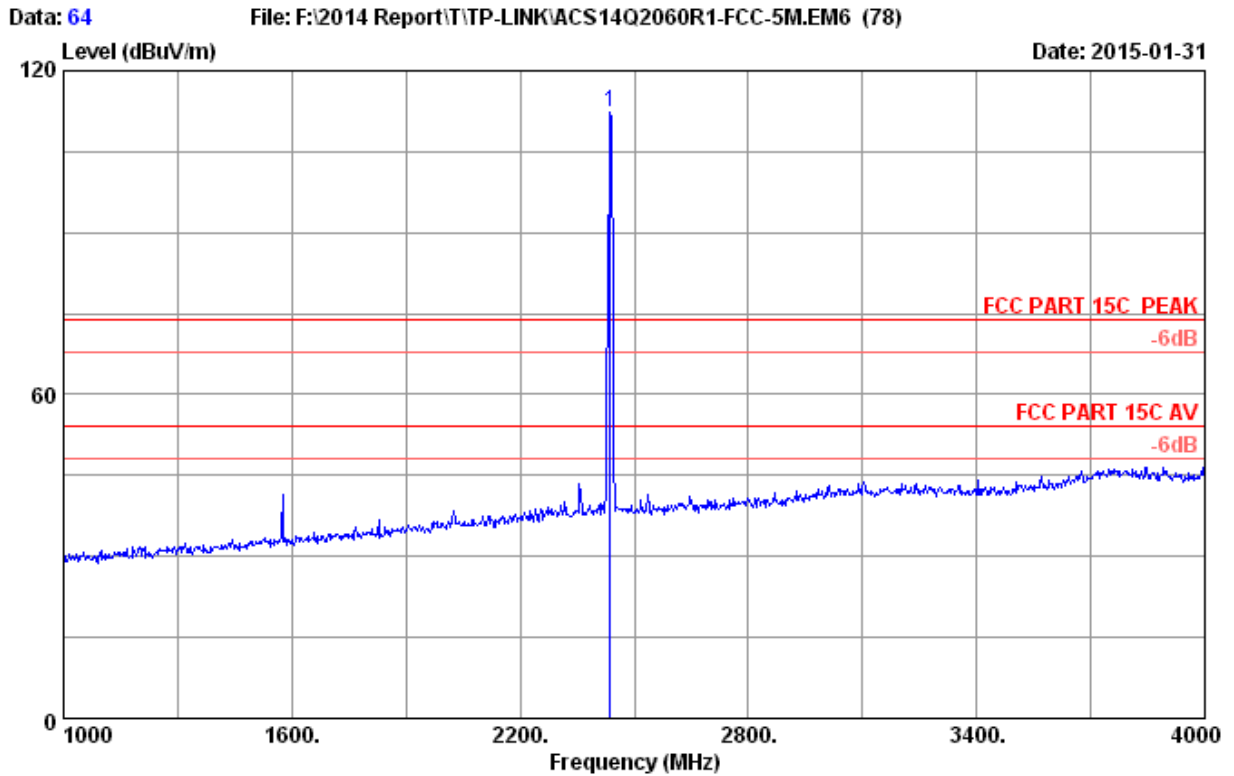
Date: 2015-01-31



Site no. : 3m Chamber Data no. : 63
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2437 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.000	28.26	5.85	35.70	117.23	115.64	74.00	-41.64	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 64
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2437 MHz Tx Mode
 M/N : CPE220

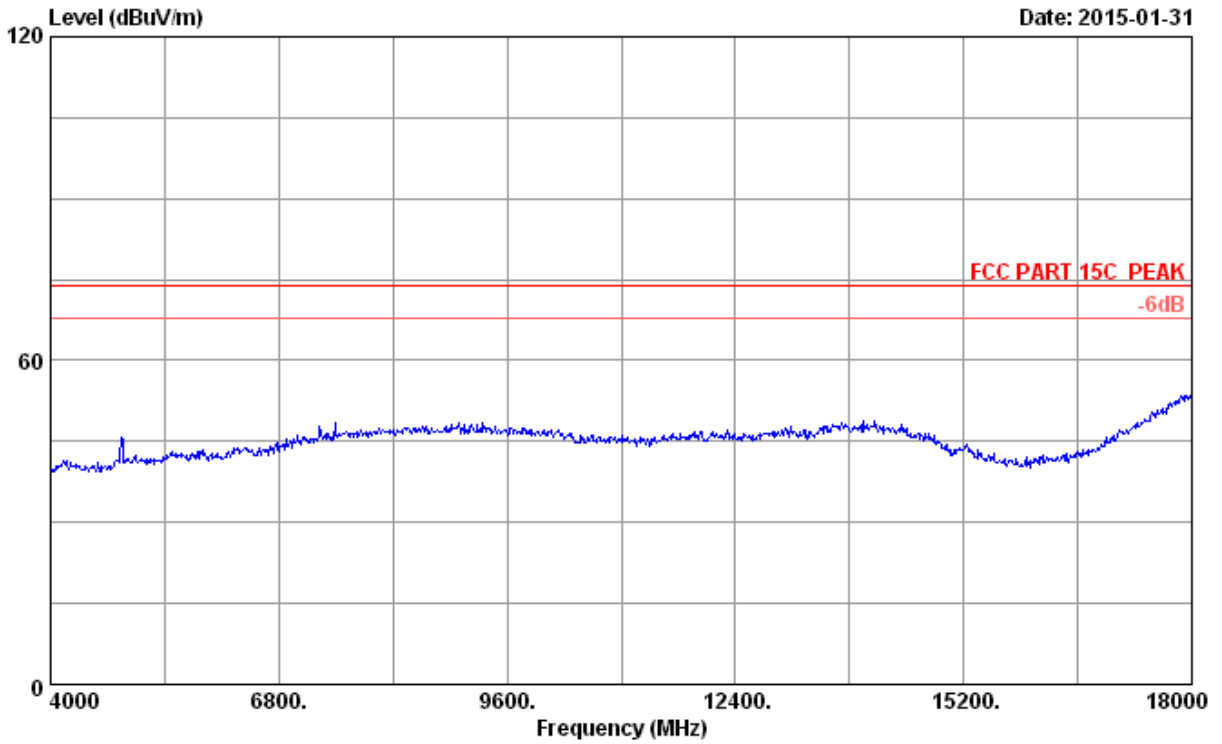
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.000	28.26	5.85	35.70	114.01	112.42	74.00	-38.42	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 65

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-5M.EM6 (78)

Date: 2015-01-31

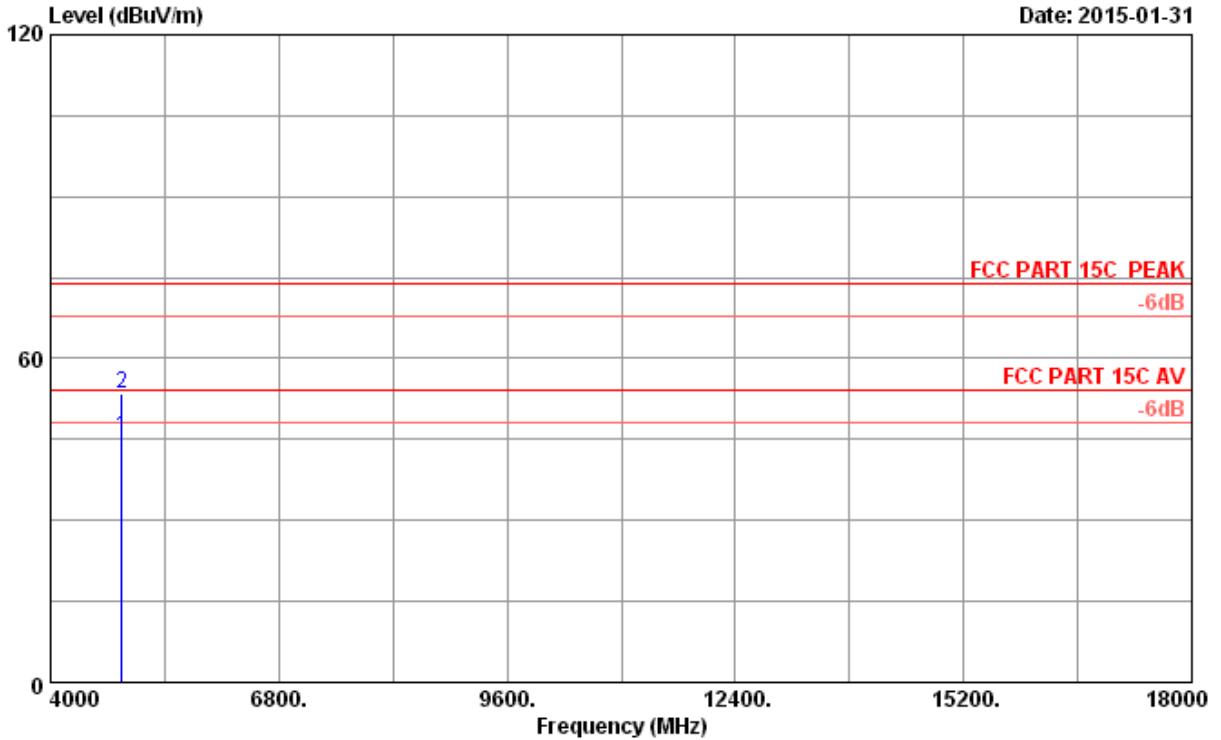


Site no. : 3m Chamber Data no. : 65
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11nHT20 2437 MHz Tx Mode
M/N : CPE220

Data: 66

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-5M.EM6 (78)

Date: 2015-01-31



Site no. : 3m Chamber Data no. : 66
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2437 MHz Tx Mode
 M/N : CPE220

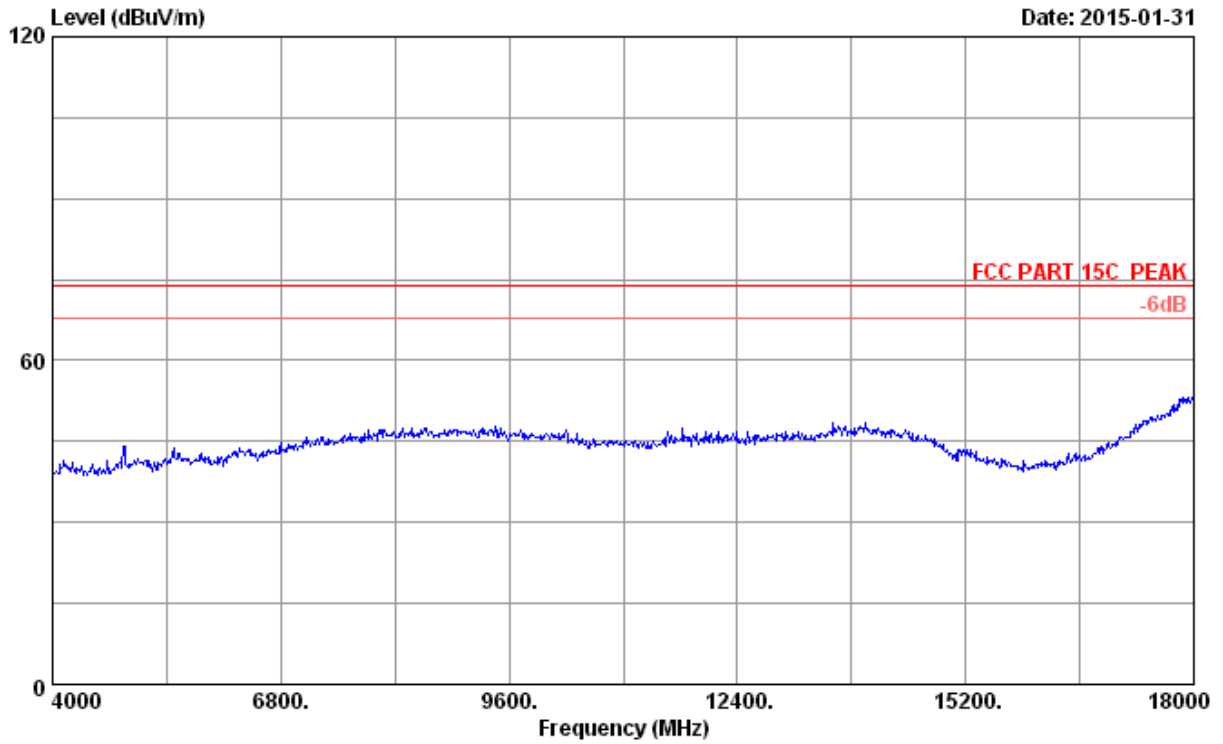
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	32.97	8.63	35.70	39.63	45.53	54.00	8.47	Average
2	4874.000	32.97	8.63	35.70	47.63	53.53	74.00	20.47	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

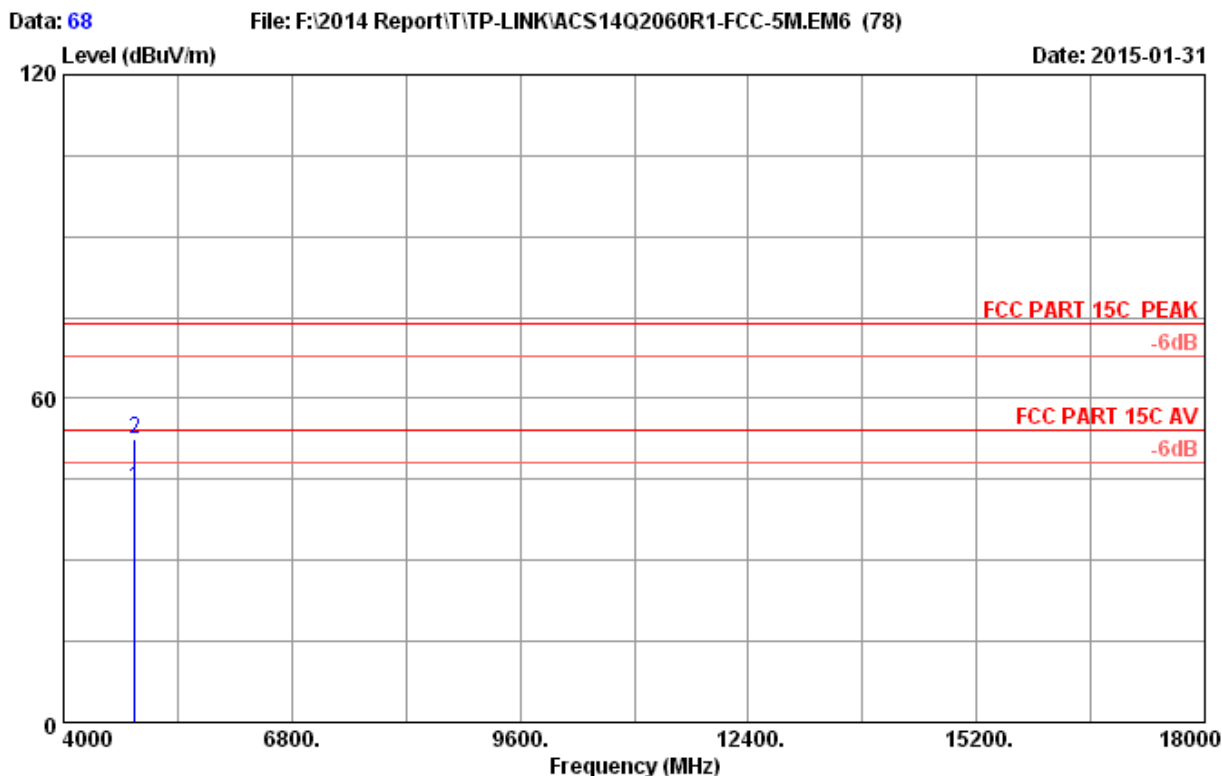
Data: 67

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-5M.EM6 (78)

Date: 2015-01-31



Site no. : 3m Chamber Data no. : 67
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11nHT20 2437 MHz Tx Mode
M/N : CPE220



Site no. : 3m Chamber Data no. : 68
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2437 MHz Tx Mode
 M/N : CPE220

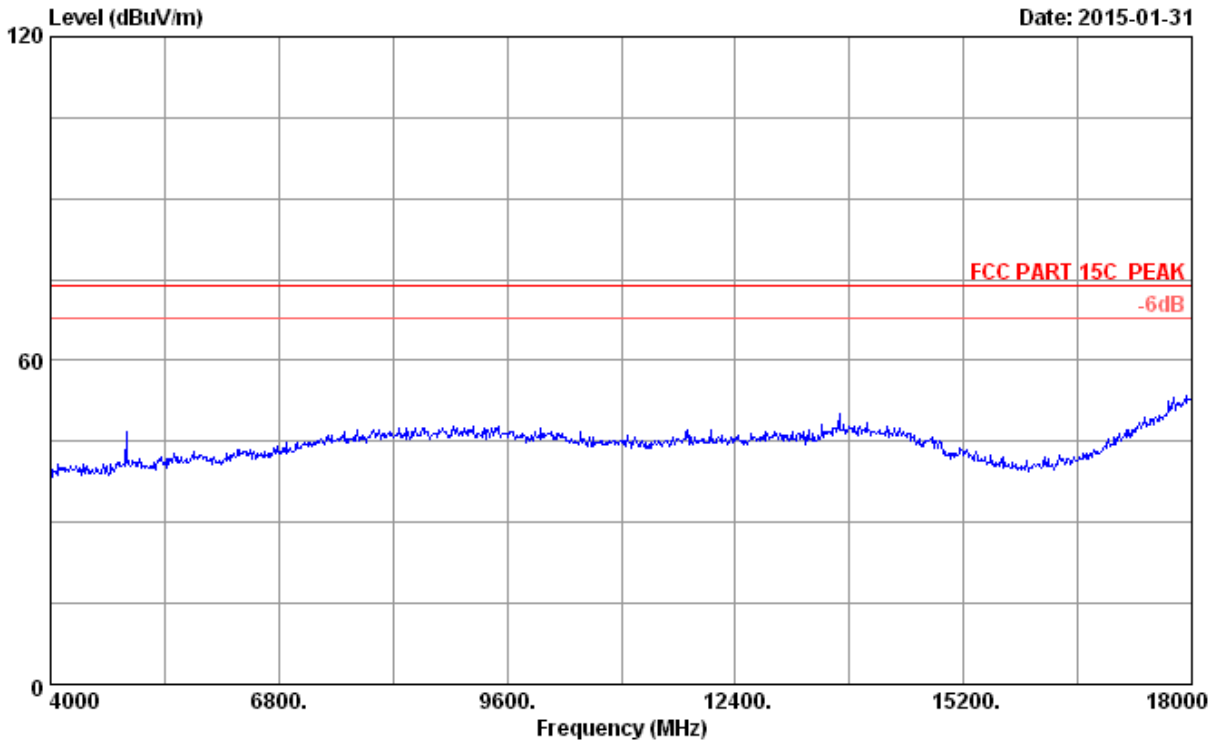
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	32.97	8.63	35.70	37.70	43.60	54.00	10.40	Average
2	4874.000	32.97	8.63	35.70	46.69	52.59	74.00	21.41	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 69

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-5M.EM6 (78)

Date: 2015-01-31

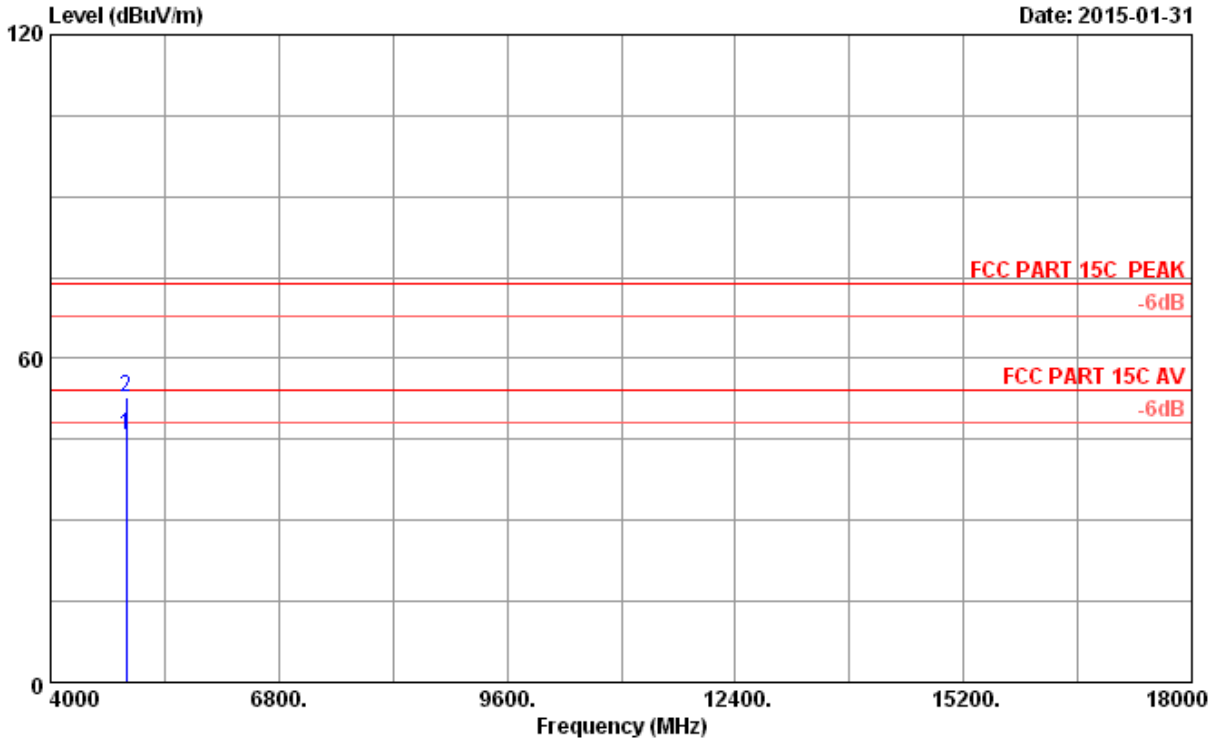


Site no. : 3m Chamber Data no. : 69
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11nHT20 2462 MHz Tx Mode
M/N : CPE220

Data: 70

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-5M.EM6 (78)

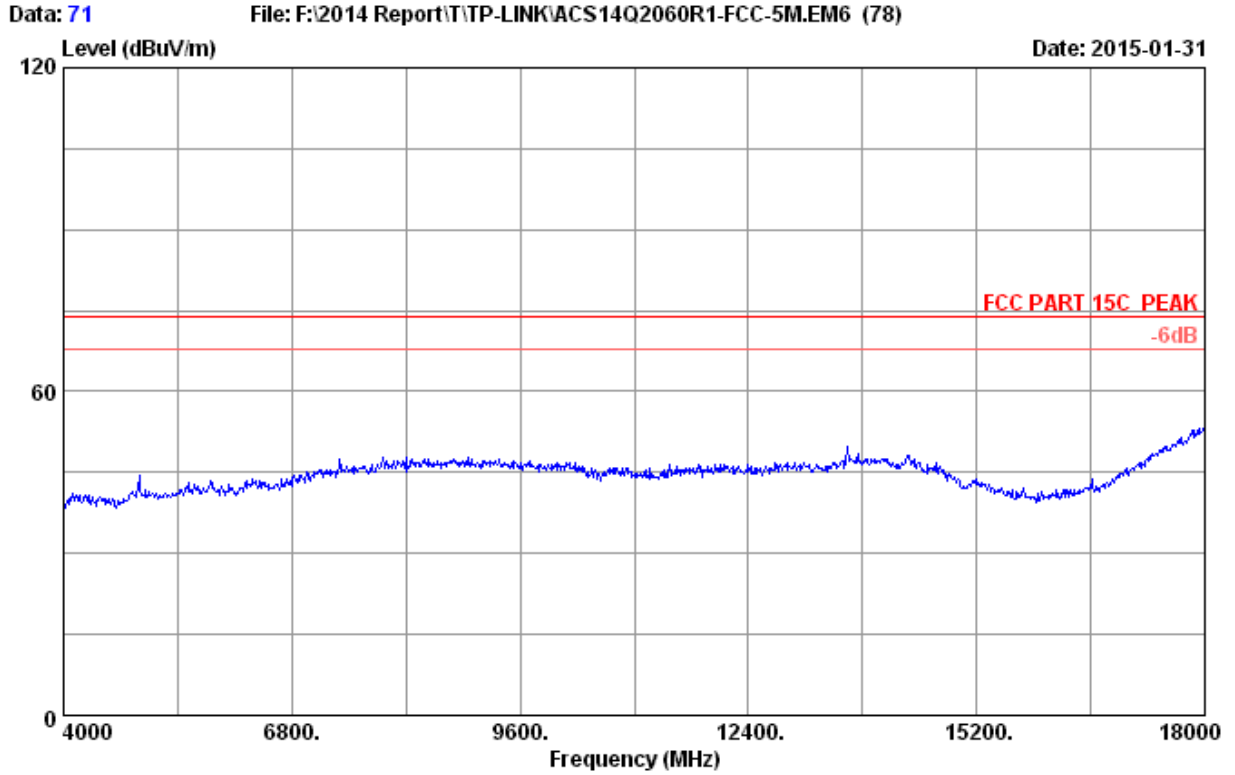
Date: 2015-01-31



Site no. : 3m Chamber Data no. : 70
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2462 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.000	33.06	8.69	35.70	39.64	45.69	54.00	8.31	Average
2	4924.000	33.06	8.69	35.70	46.92	52.97	74.00	21.03	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

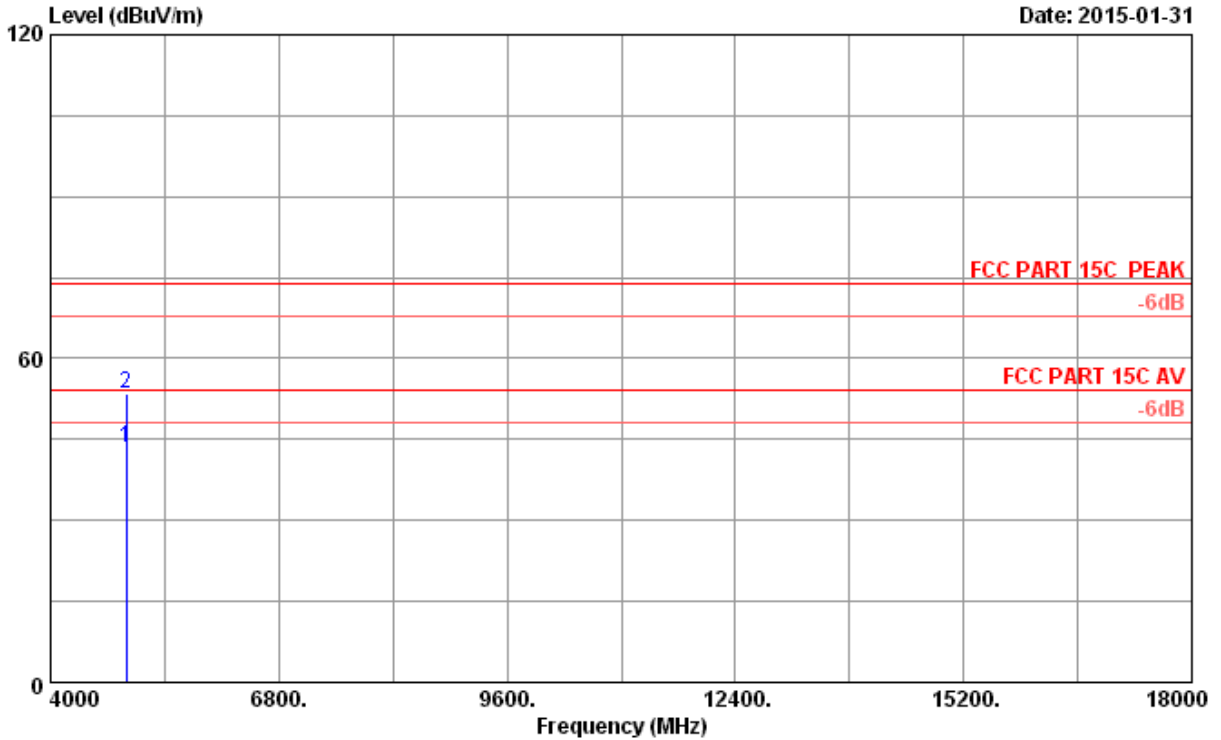


Site no. : 3m Chamber Data no. : 71
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11nHT20 2462 MHz Tx Mode
M/N : CPE220

Data: 72

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-5MLEM6 (78)

Date: 2015-01-31



Site no. : 3m Chamber Data no. : 72
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2462 MHz Tx Mode
 M/N : CPE220

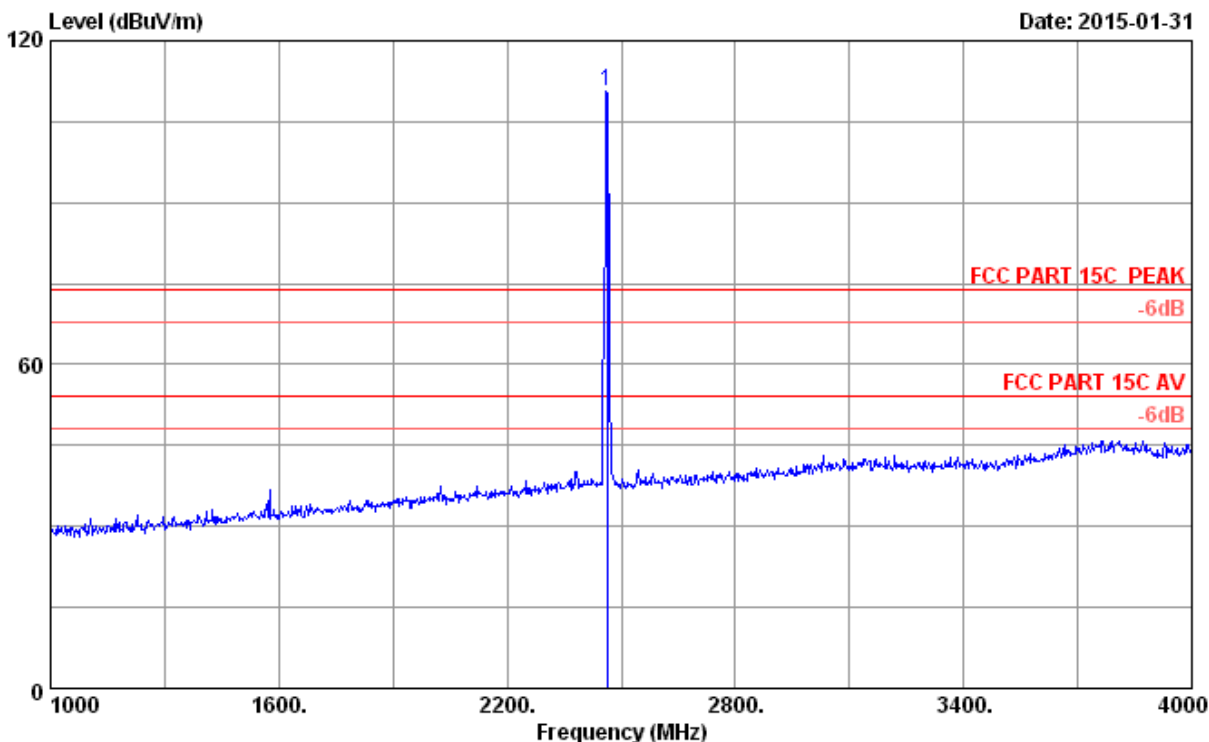
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.000	33.06	8.69	35.70	37.48	43.53	54.00	10.47	Average
2	4924.000	33.06	8.69	35.70	47.36	53.41	74.00	20.59	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 73

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-5M.EM6 (78)

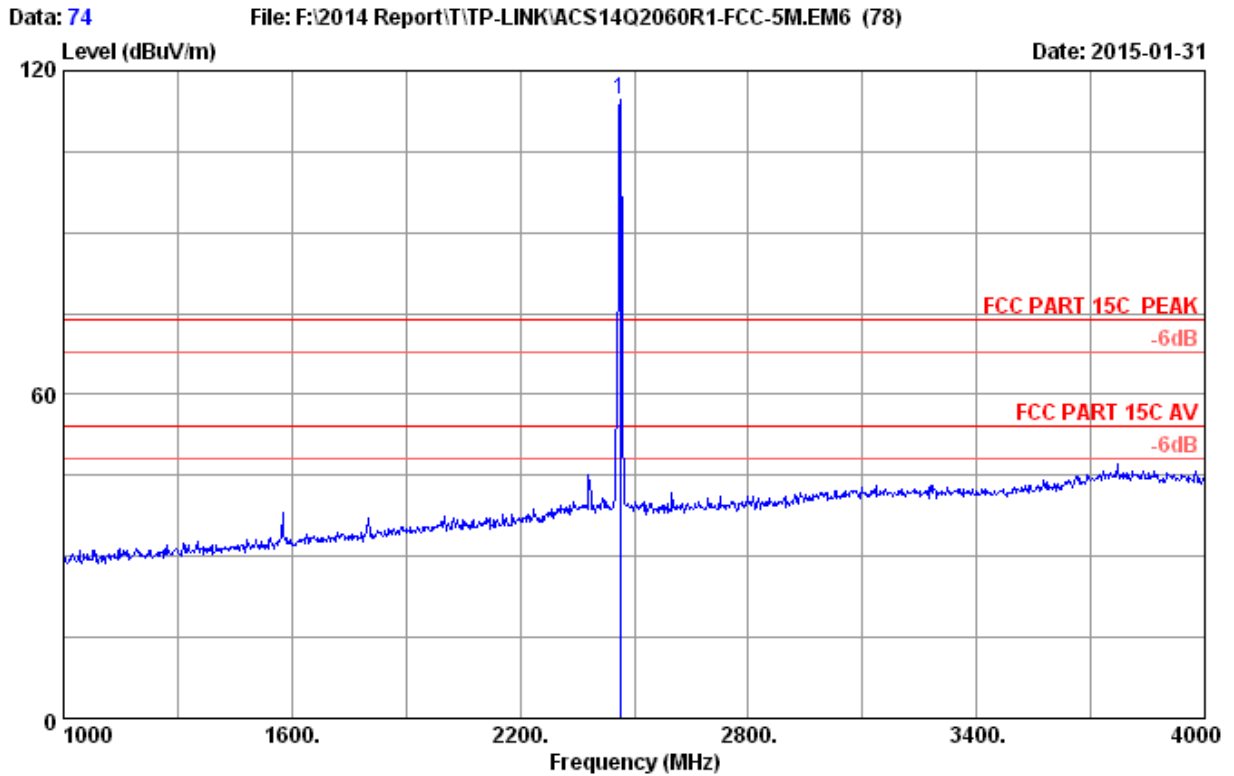
Date: 2015-01-31



Site no. : 3m Chamber Data no. : 73
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2462 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.000	28.32	5.89	35.70	112.09	110.60	74.00	-36.60	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 74
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2462 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.000	28.32	5.89	35.70	116.06	114.57	74.00	-40.57	Peak

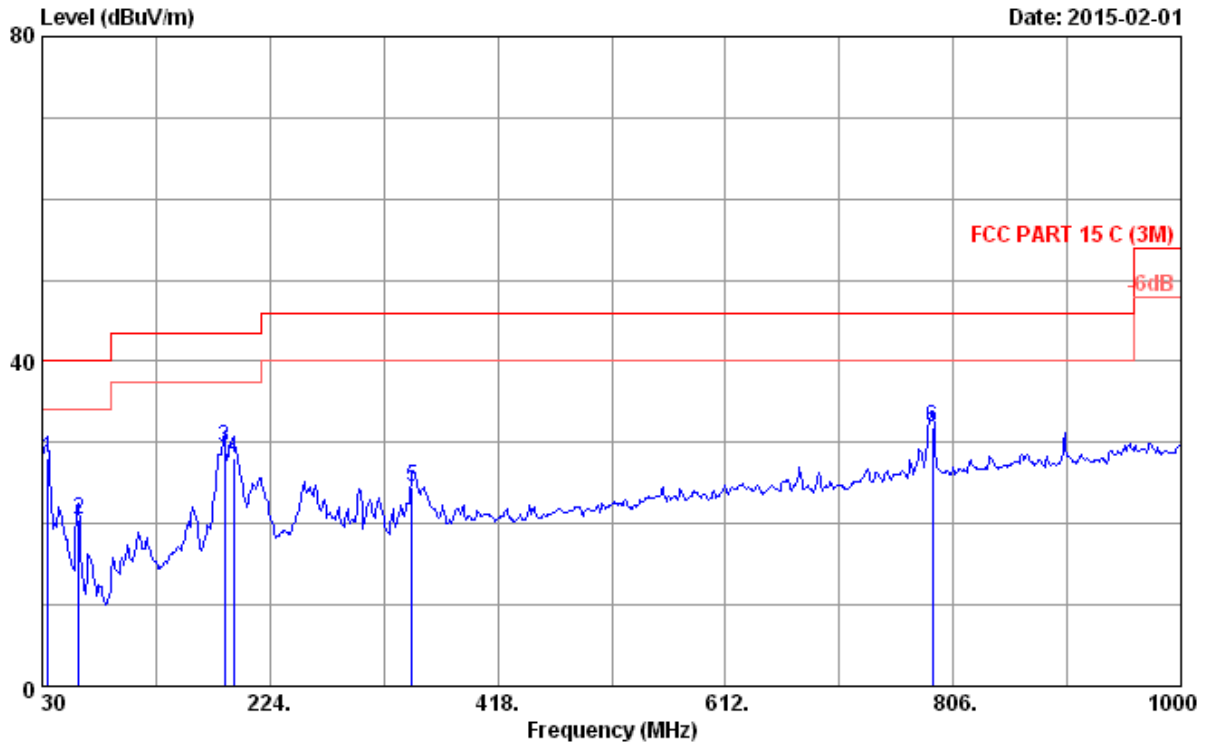
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

10MHz
Frequency: 30MHz~1GHz

Data: 4

File: E:\2014 Report Data\T\TP-LINK\ACS14Q2060-rf.EM6 (8)

Date: 2015-02-01



Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m 2014 CBL6112D 35375 Ant. pol. : VERTICAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 24.4*C/40% Engineer : Donjon
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : TX Mode
 M/N:CPE220

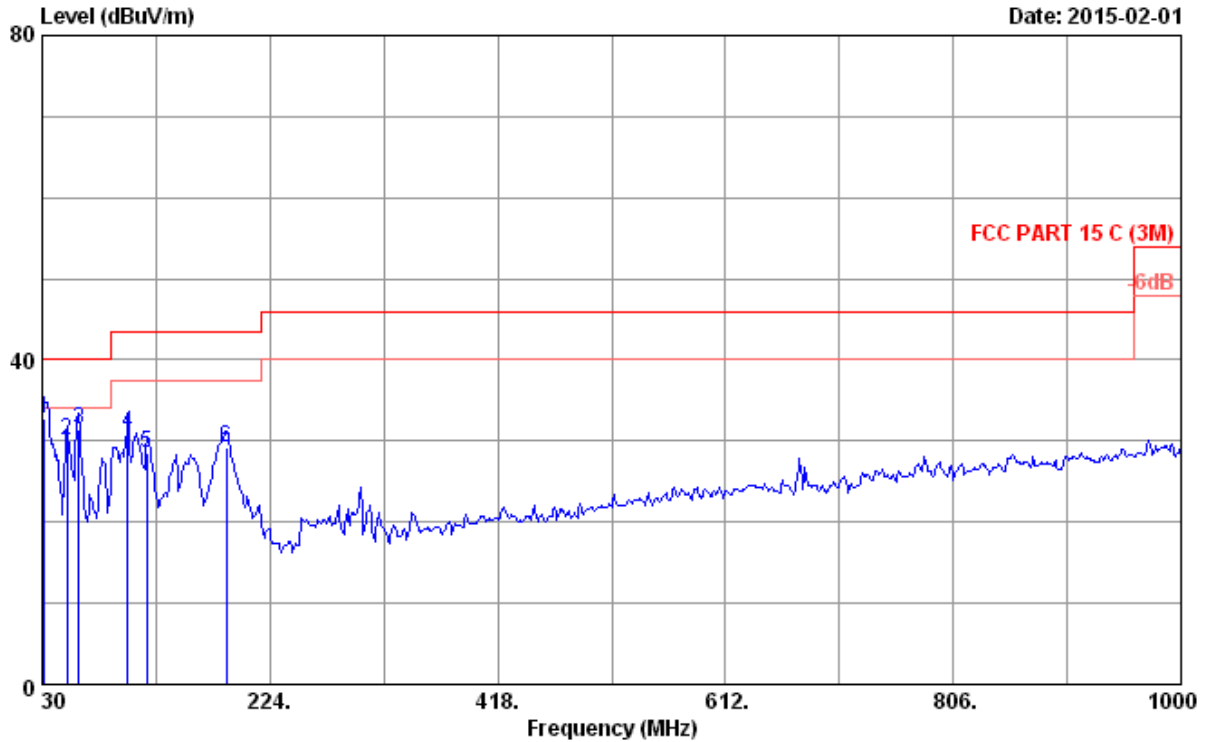
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	34.850	16.93	0.65	10.52	28.10	40.00	11.90	QP
2	61.040	6.40	0.87	13.32	20.59	40.00	19.41	QP
3	185.200	9.70	1.76	17.95	29.41	43.50	14.09	QP
4	192.960	9.85	1.80	16.52	28.17	43.50	15.33	QP
5	345.250	15.12	2.53	6.93	24.58	46.00	21.42	QP
6	788.540	20.90	4.44	6.52	31.86	46.00	14.14	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 3

File: E:\2014 Report Data\T\TP-LINK\ACS14Q2060-rf.EM6 (8)

Date: 2015-02-01



Site no. : 3m Chamber Data no. : 3
 Dis. / Ant. : 3m 2014 CBL6112D 35375 Ant. pol. : VERTICAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 24.4°C/40% Engineer : Donjon
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : TX Mode
 M/N:CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.940	18.82	0.62	13.41	32.85	40.00	7.15	QP
2	51.340	8.43	0.78	20.76	29.97	40.00	10.03	QP
3	61.040	6.40	0.87	24.13	31.40	40.00	8.60	QP
4	102.750	11.54	1.14	18.32	31.00	43.50	12.50	QP
5	119.240	12.70	1.30	14.61	28.61	43.50	14.89	QP
6	187.140	9.70	1.77	17.79	29.26	43.50	14.24	QP

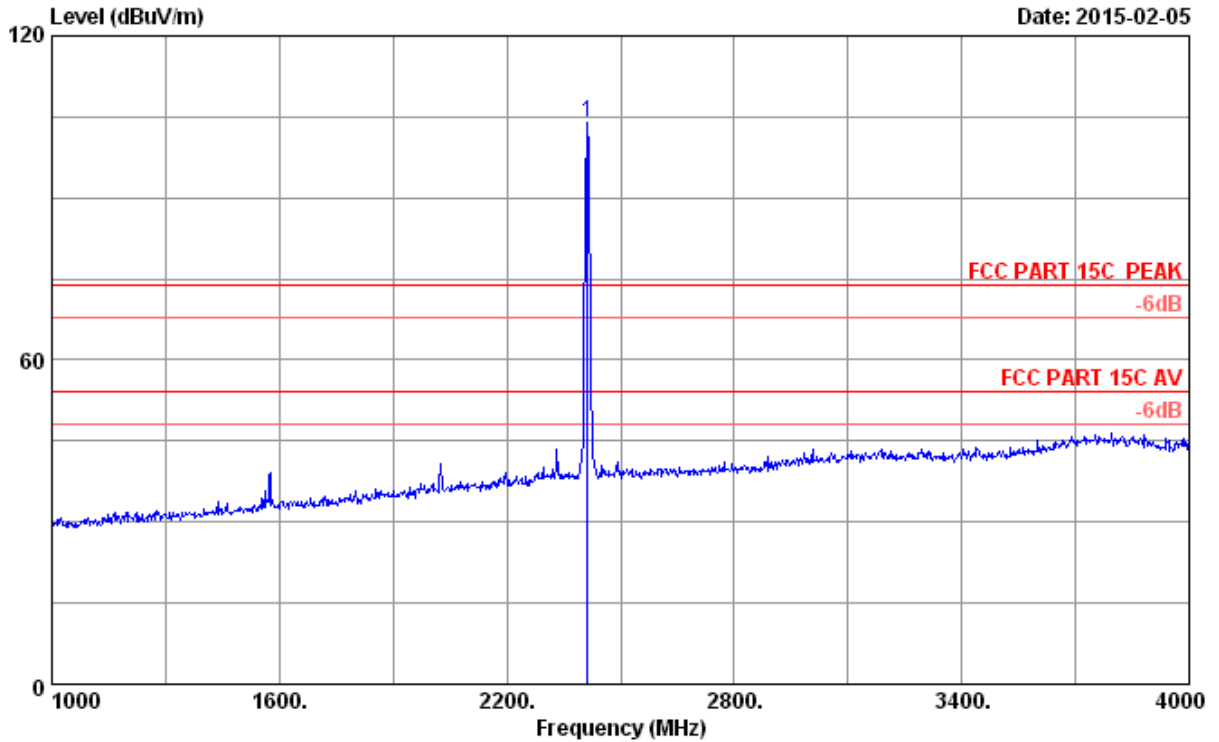
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Frequency: 1GHz~18GHz

Data: 1

File: F:\2014 Report\TTP-LINK\ACS14Q2060R1-FCC-10M.EM6 (78)

Date: 2015-02-05



Site no. : 3m Chamber Data no. : 1
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11b 2412 MHz Tx Mode
 M/N : CPE220

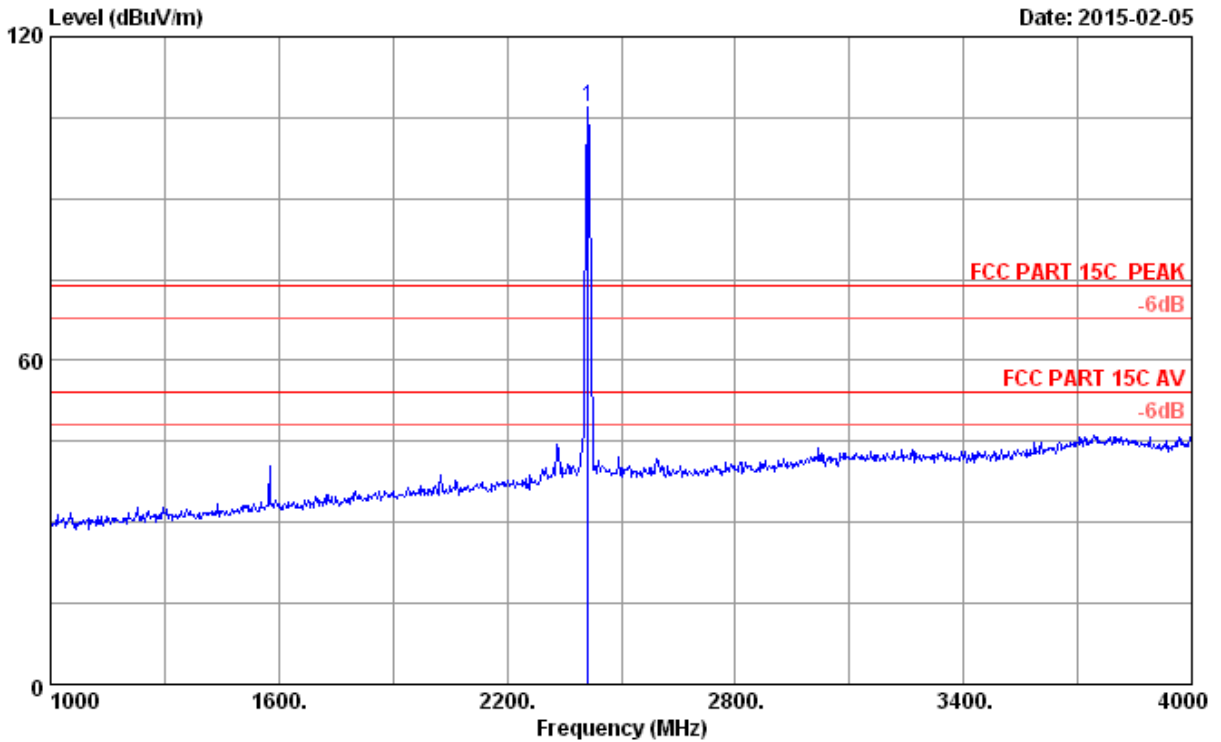
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2412.000	28.21	5.81	35.70	105.65	103.97	74.00	-29.97	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 2

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-10M.EM6 (78)

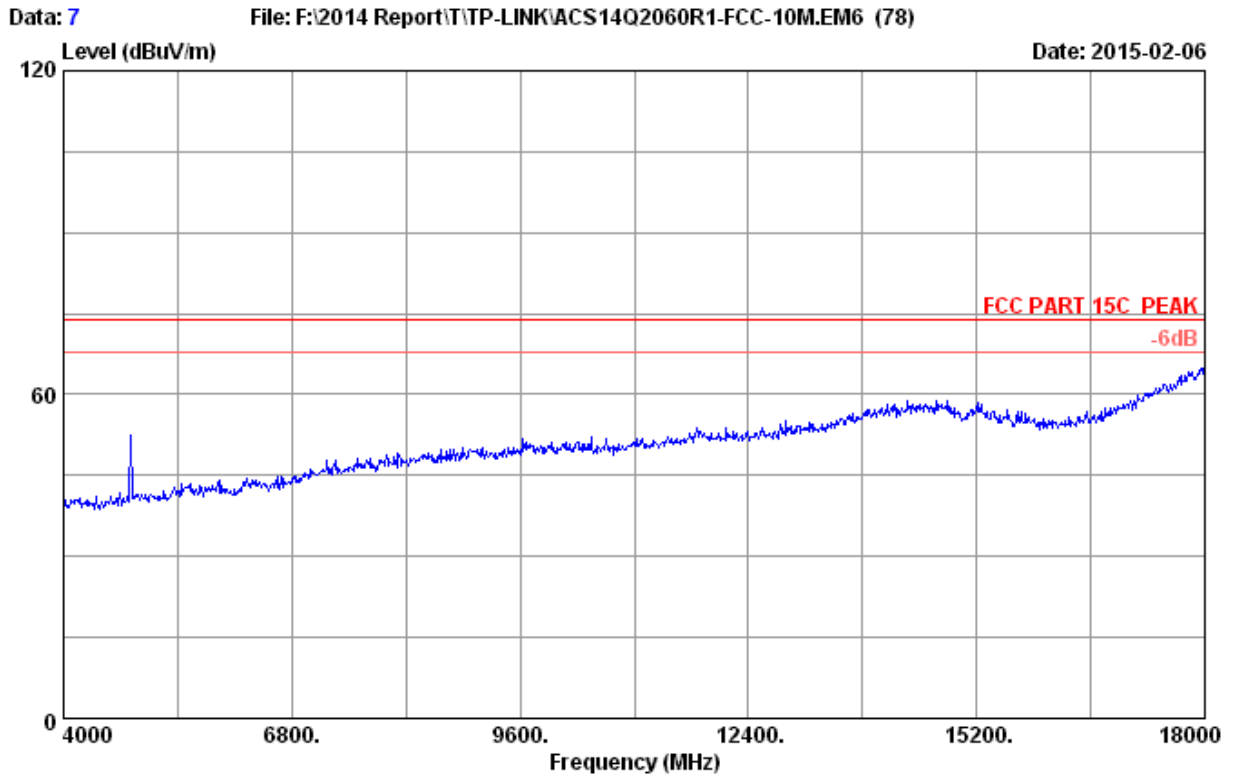
Date: 2015-02-05



Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11b 2412 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.000	28.21	5.81	35.70	108.74	107.06	74.00	-33.06	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



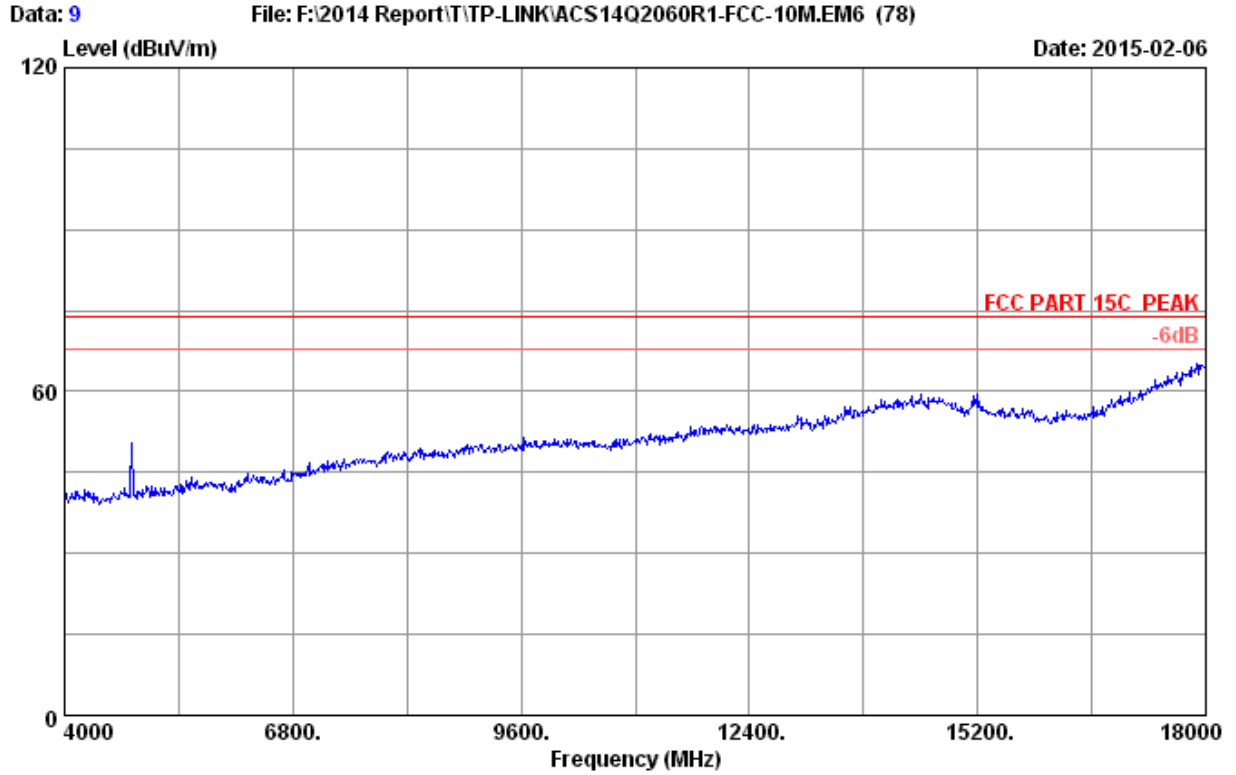
Site no. : 3m Chamber Data no. : 7
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11b 2412 MHz Tx Mode
M/N : CPE220



Site no. : 3m Chamber Data no. : 8
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11b 2412 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.000	32.88	8.58	35.70	46.57	52.33	54.00	1.67	Average
2	4824.000	32.88	8.58	35.70	52.13	57.89	74.00	16.11	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

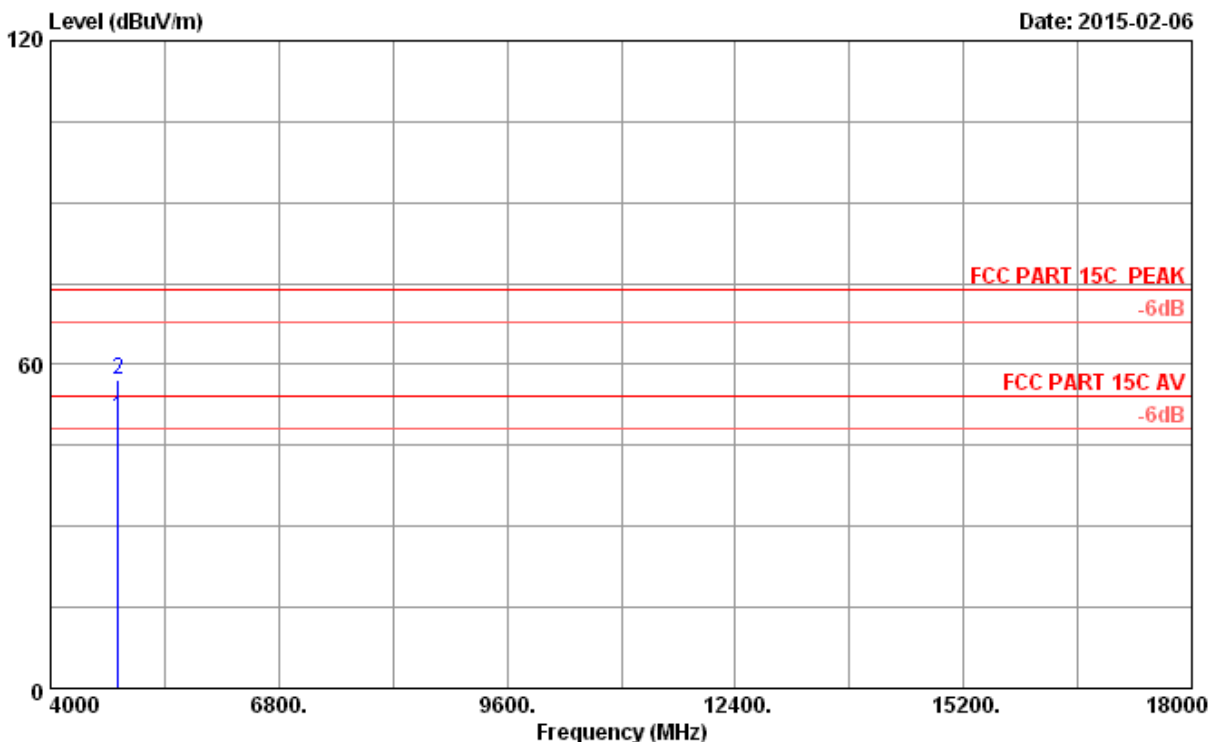


Site no. : 3m Chamber Data no. : 9
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11b 2412 MHz Tx Mode
M/N : CPE220

Data: 10

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-10M.EM6 (78)

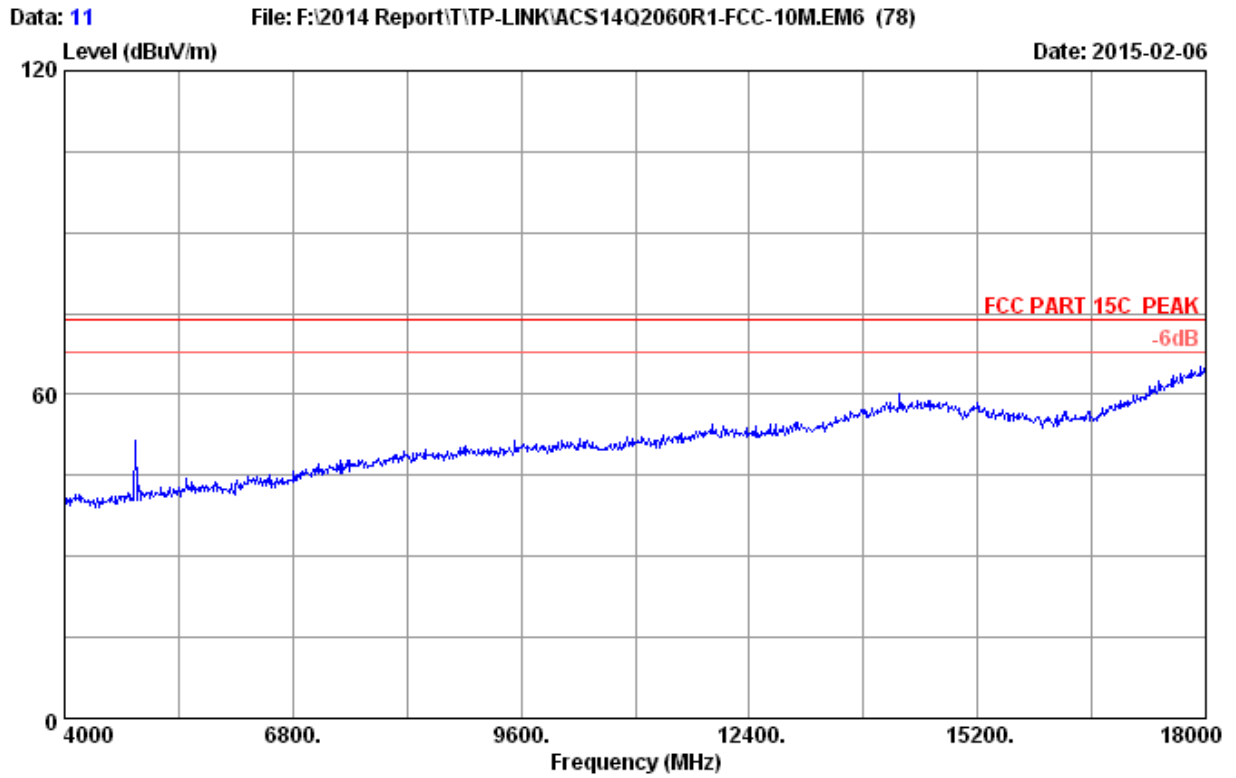
Date: 2015-02-06



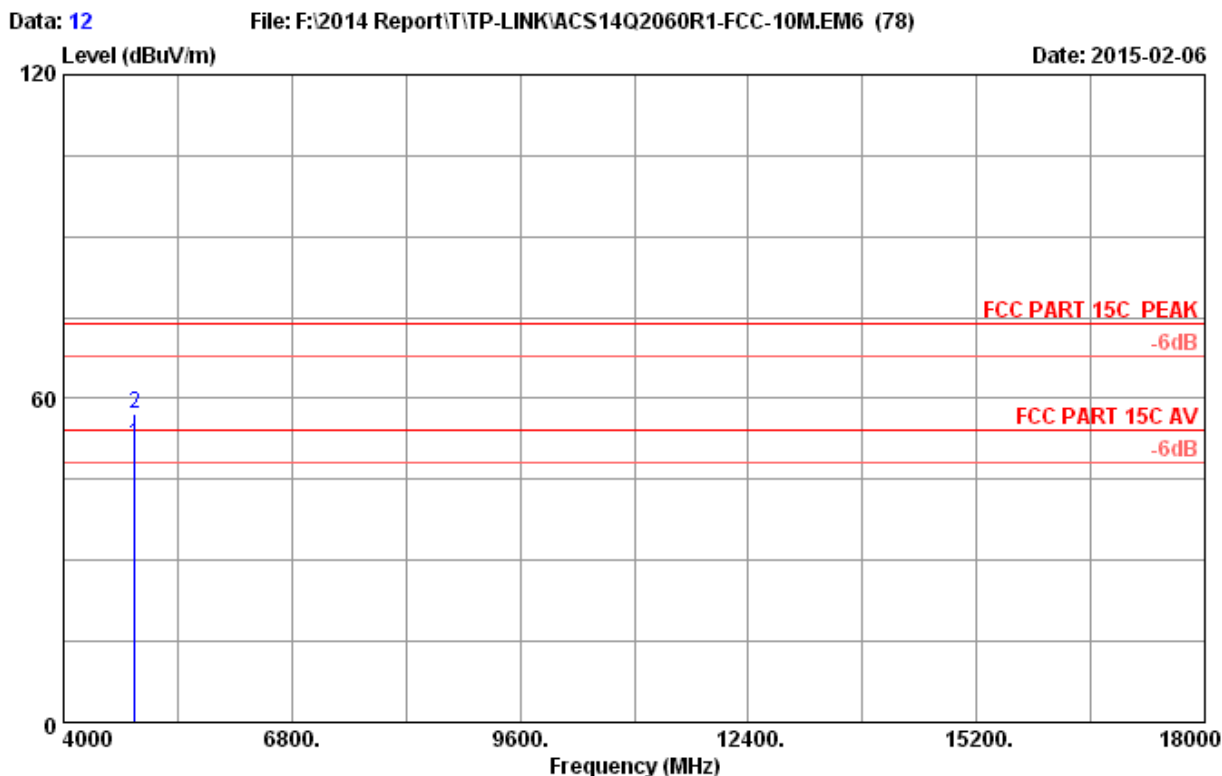
Site no. : 3m Chamber Data no. : 10
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11b 2412 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.000	32.88	8.58	35.70	44.36	50.12	54.00	3.88	Average
2	4824.000	32.88	8.58	35.70	51.46	57.22	74.00	16.78	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 11
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11b 2437 MHz Tx Mode
M/N : CPE220



Site no. : 3m Chamber Data no. : 12
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11b 2437 MHz Tx Mode
 M/N : CPE220

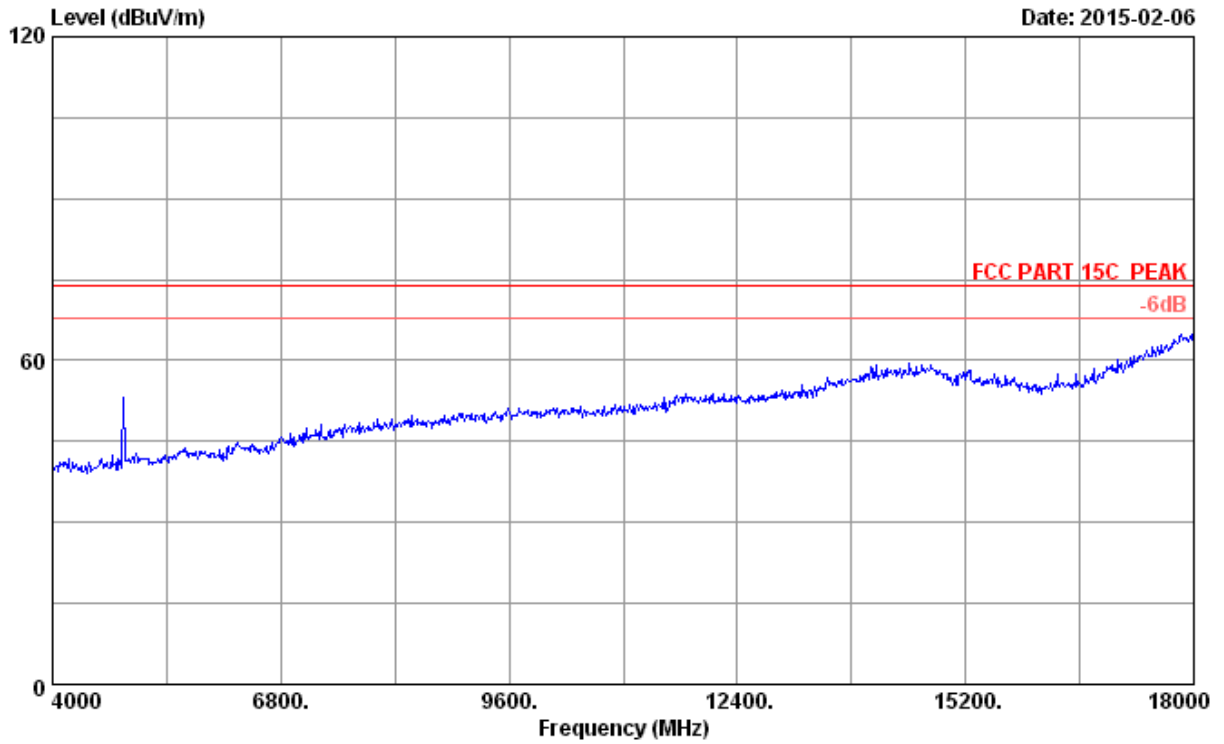
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	32.97	8.63	35.70	45.63	51.53	54.00	2.47	Average
2	4874.000	32.97	8.63	35.70	51.27	57.17	74.00	16.83	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 13

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-10M.EM6 (78)

Date: 2015-02-06

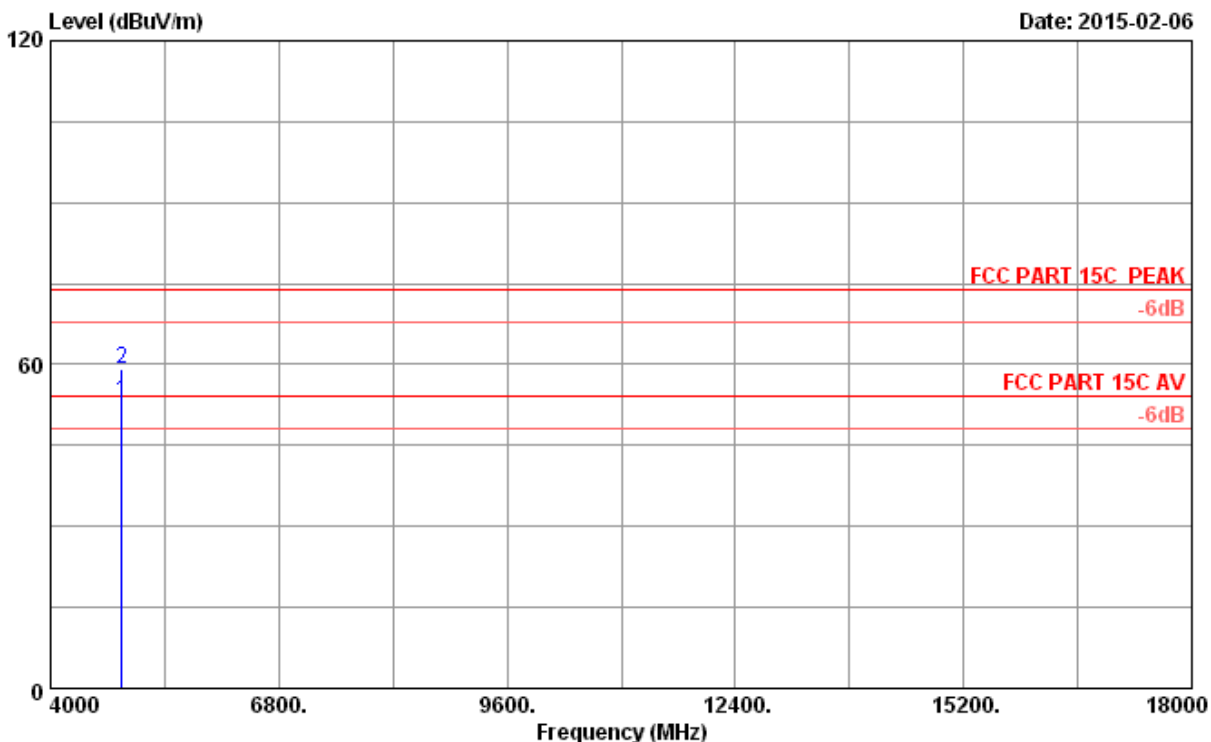


Site no. : 3m Chamber Data no. : 13
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11b 2437 MHz Tx Mode
M/N : CPE220

Data: 14

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-10M.EM6 (78)

Date: 2015-02-06



Site no. : 3m Chamber Data no. : 14
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11b 2437 MHz Tx Mode
 M/N : CPE220

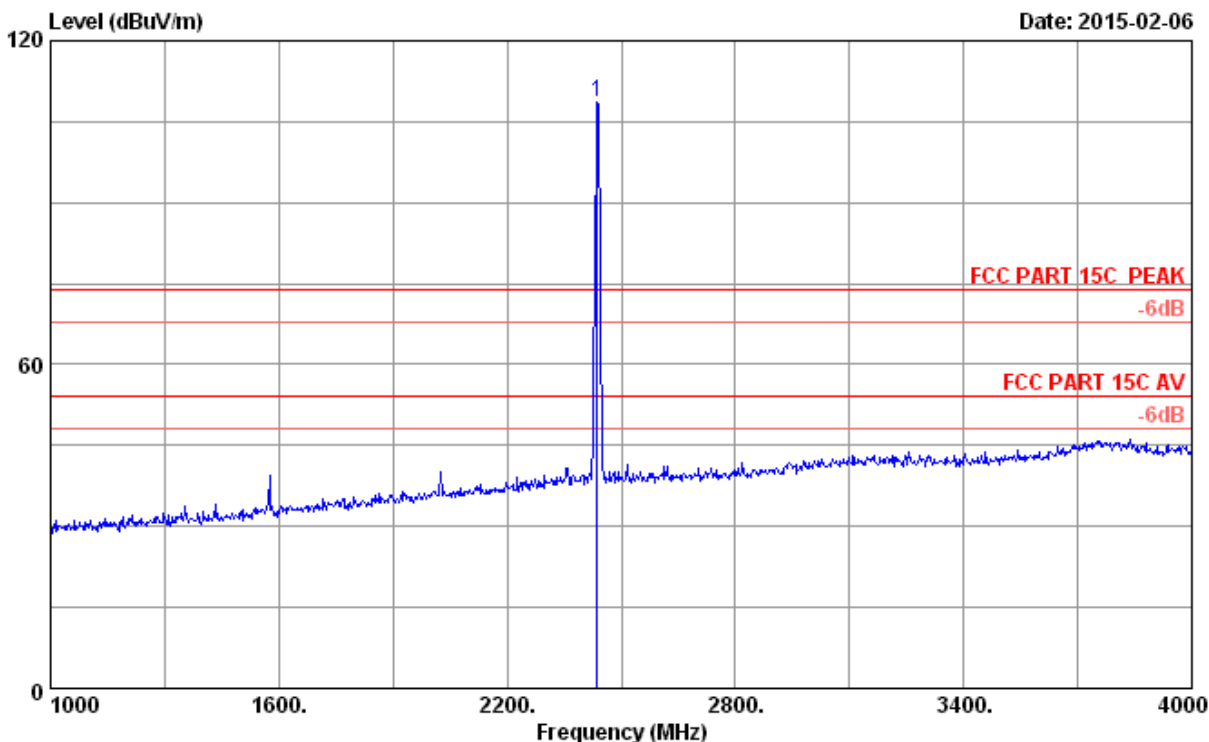
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	32.97	8.63	35.70	47.27	53.17	54.00	0.83	Average
2	4874.000	32.97	8.63	35.70	53.17	59.07	74.00	14.93	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 15

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-10M.EM6 (78)

Date: 2015-02-06



Site no. : 3m Chamber Data no. : 15
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11b 2437 MHz Tx Mode
 M/N : CPE220

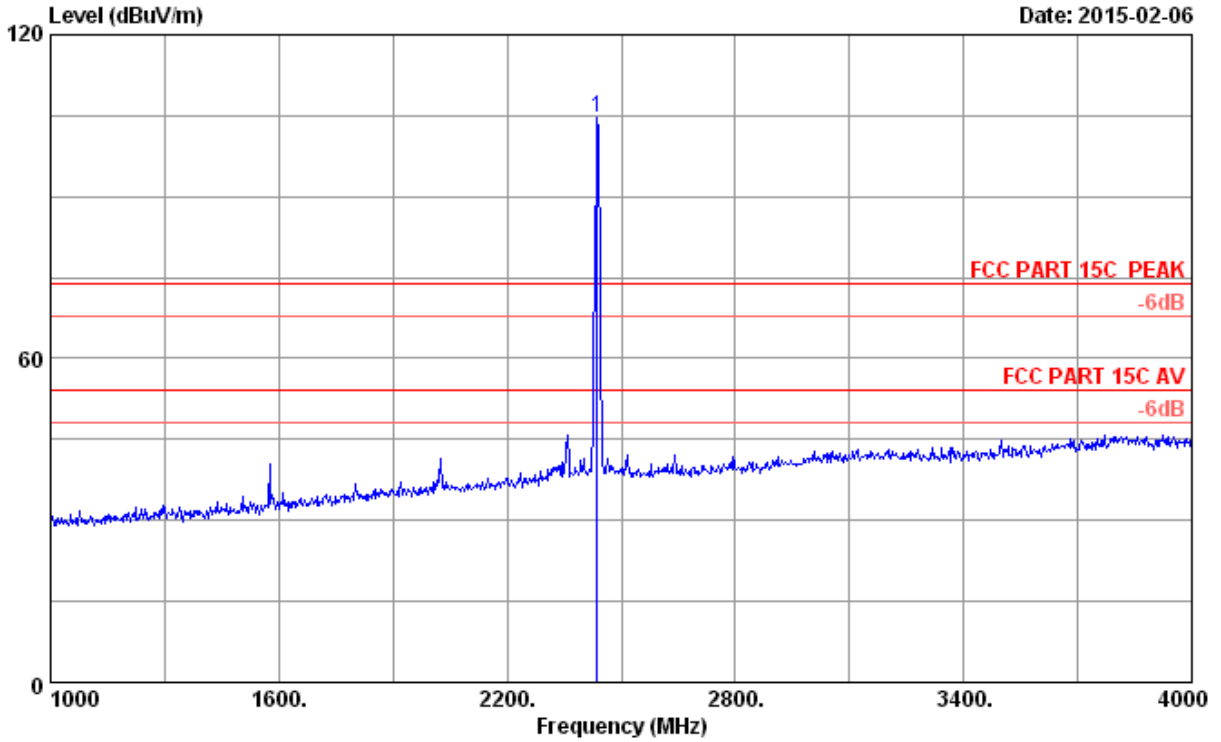
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.000	28.26	5.85	35.70	110.36	108.77	74.00	-34.77	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 16

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-10M.EM6 (78)

Date: 2015-02-06



Site no. : 3m Chamber Data no. : 16
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11b 2437 MHz Tx Mode
 M/N : CPE220

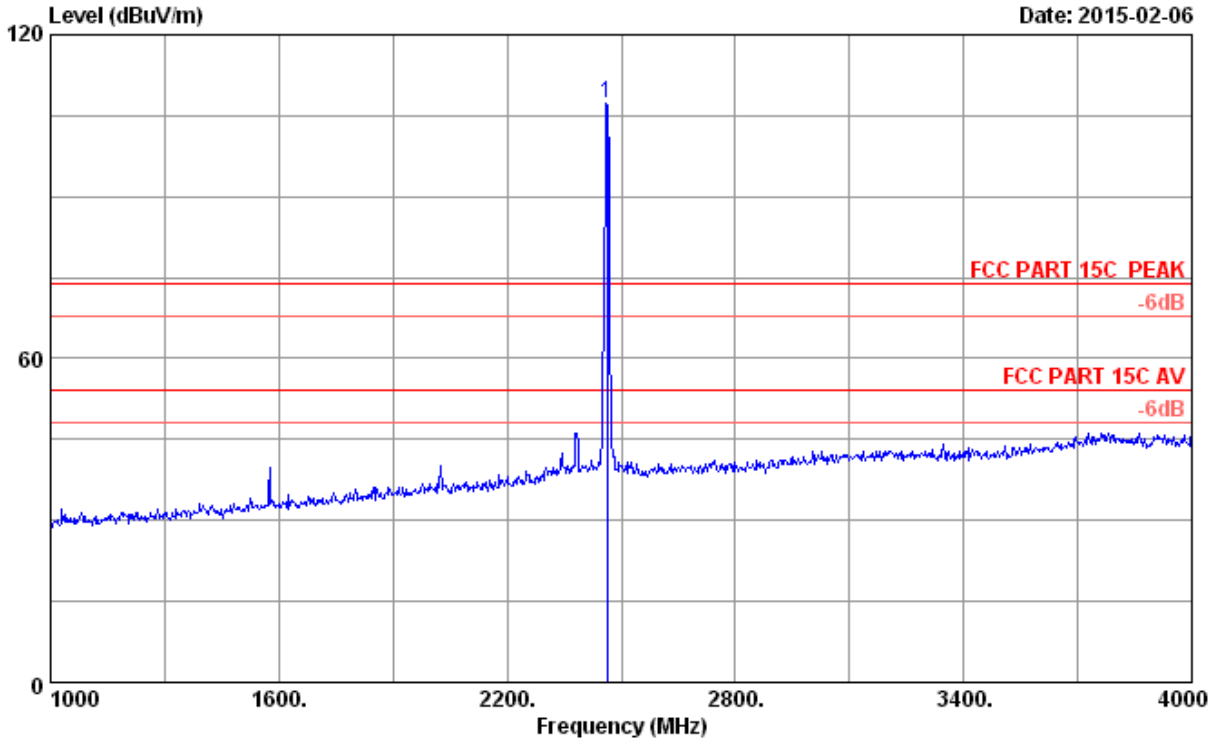
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.000	28.26	5.85	35.70	106.20	104.61	74.00	-30.61	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 17

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-10M.EM6 (78)

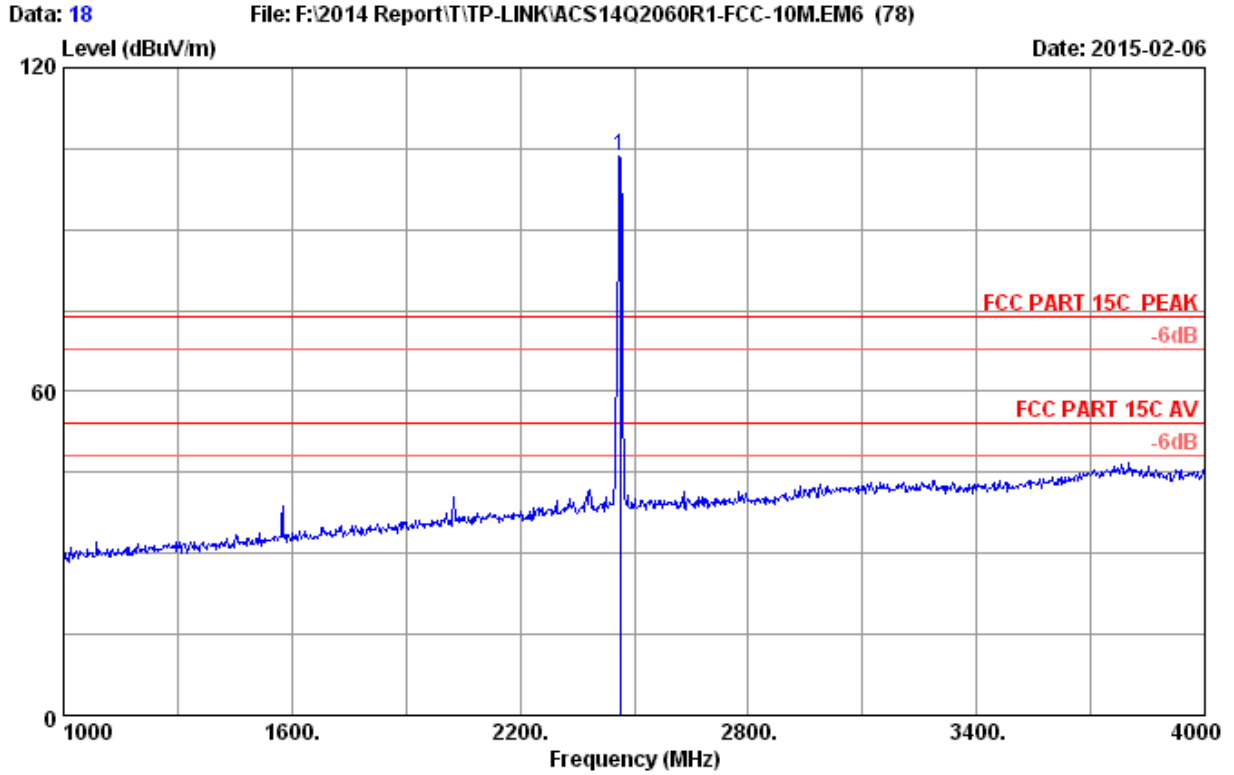
Date: 2015-02-06



Site no. : 3m Chamber Data no. : 17
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11b 2462 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.000	28.32	5.89	35.70	108.67	107.18	74.00	-33.18	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 18
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11b 2462 MHz Tx Mode
 M/N : CPE220

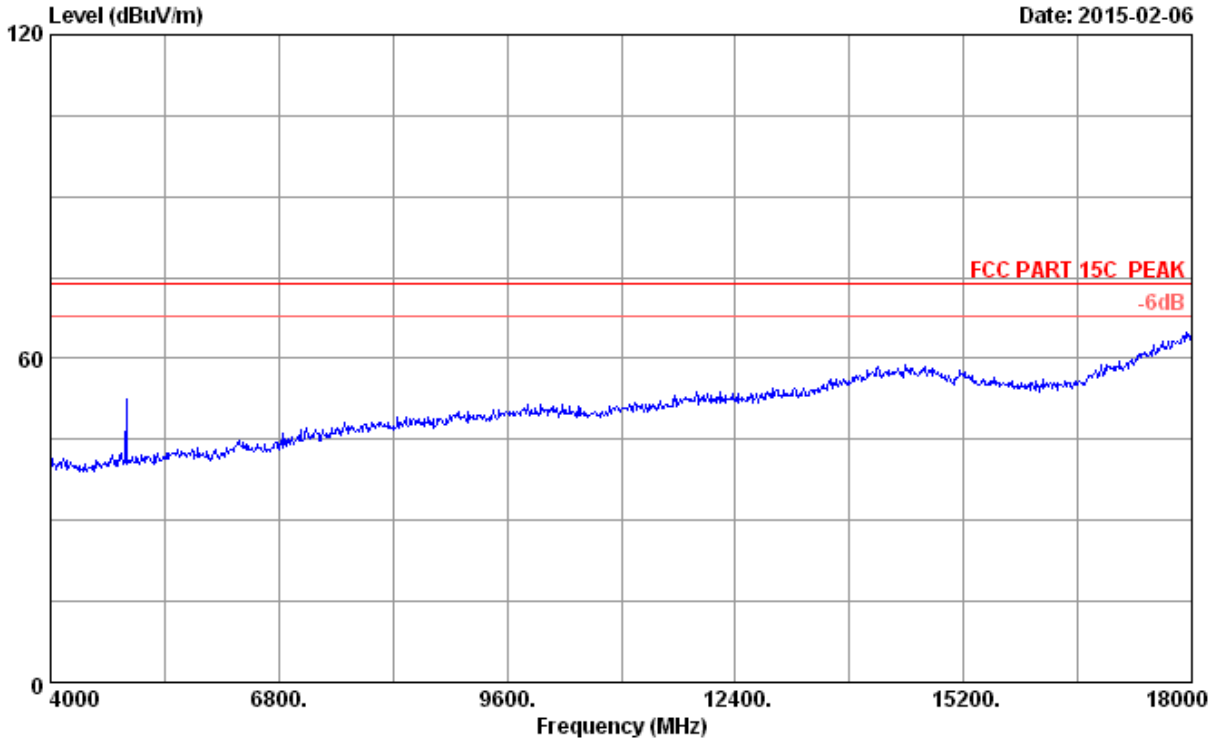
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.000	28.32	5.89	35.70	105.22	103.73	74.00	-29.73	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 23

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-10M.EM6 (78)

Date: 2015-02-06

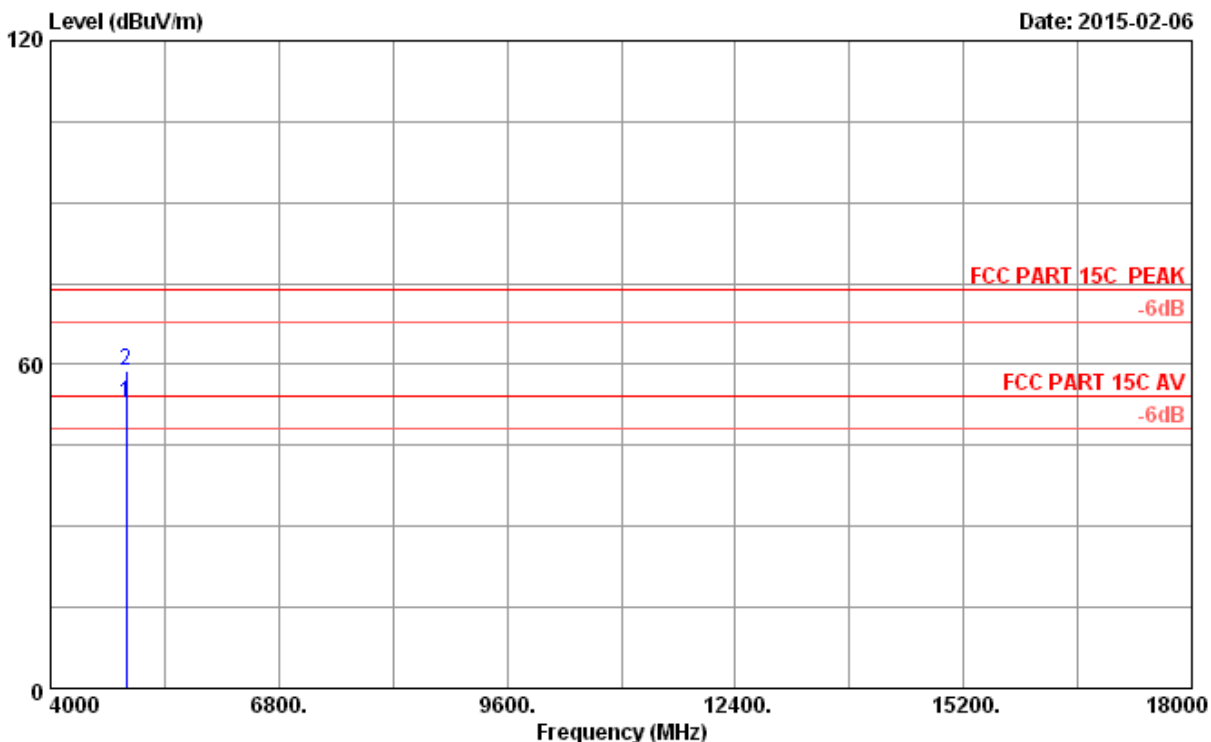


Site no. : 3m Chamber Data no. : 23
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11b 2462 MHz Tx Mode
M/N : CPE220

Data: 24

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-10M.EM6 (78)

Date: 2015-02-06



Site no. : 3m Chamber Data no. : 24
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11b 2462 MHz Tx Mode
 M/N : CPE220

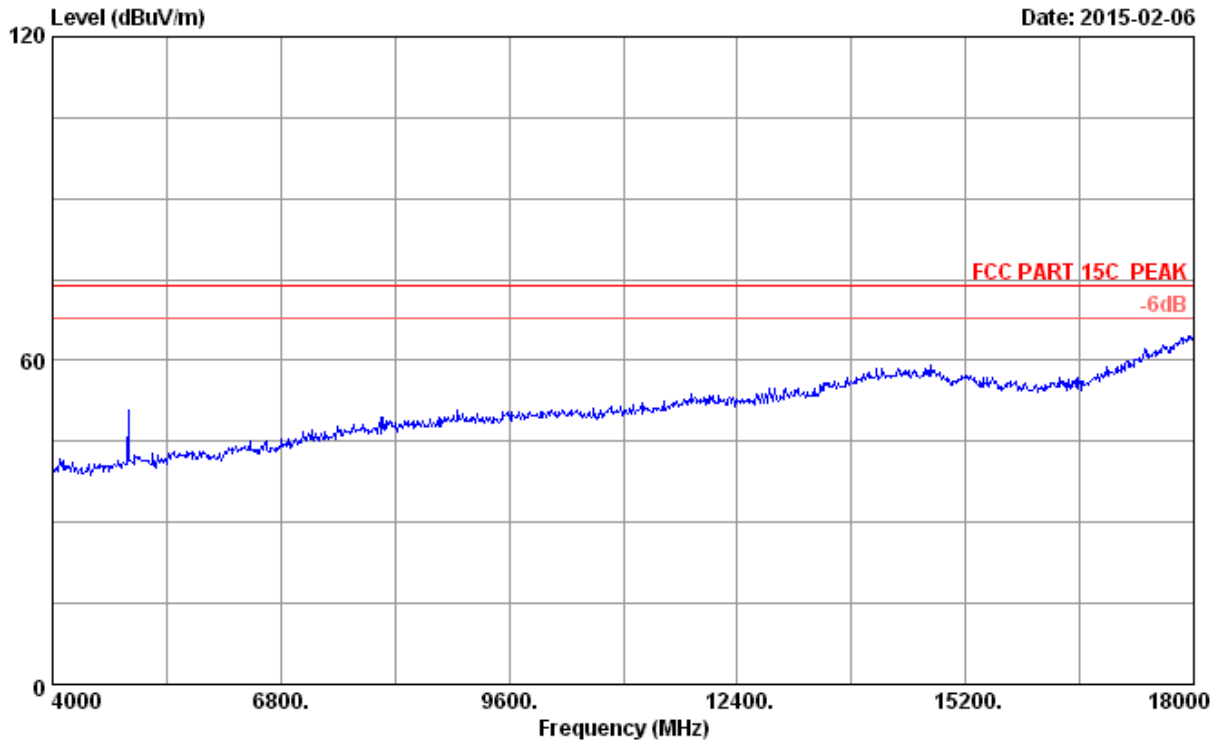
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.000	33.06	8.69	35.70	46.68	52.73	54.00	1.27	Average
2	4924.000	33.06	8.69	35.70	52.63	58.68	74.00	15.32	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

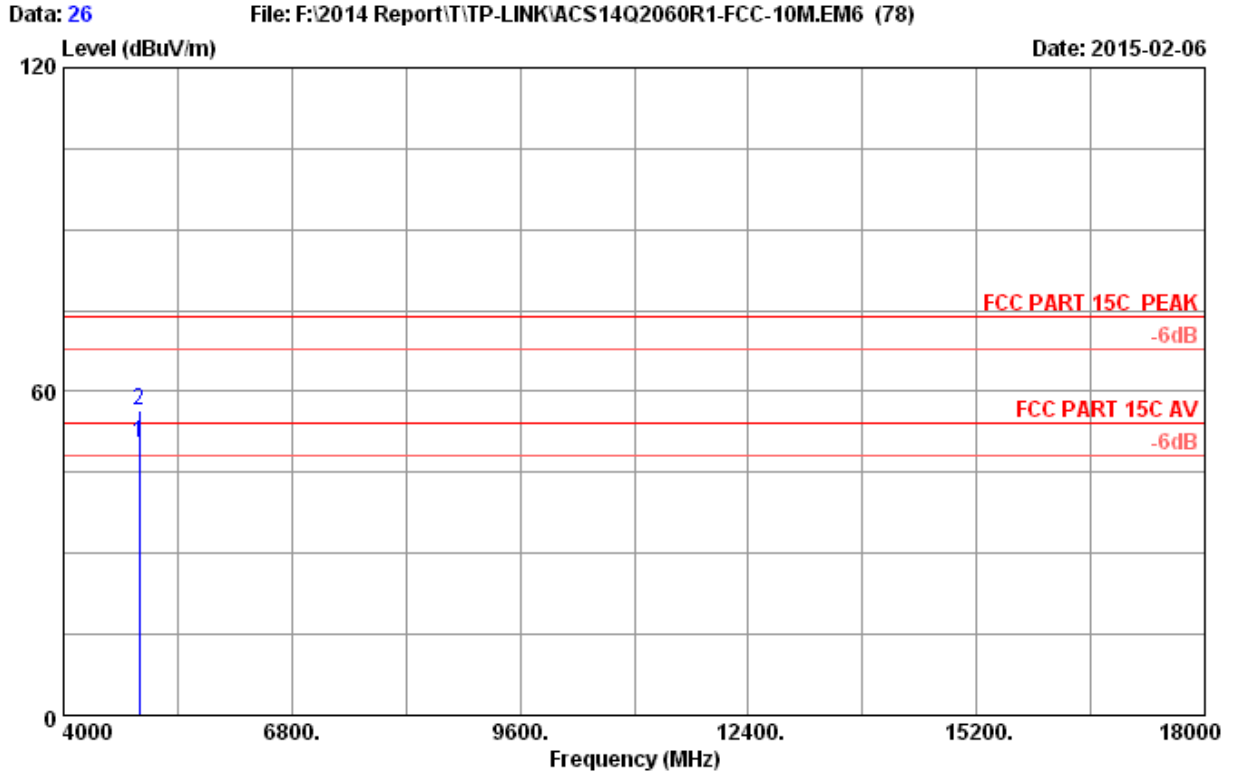
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File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-10M.EM6 (78)

Date: 2015-02-06



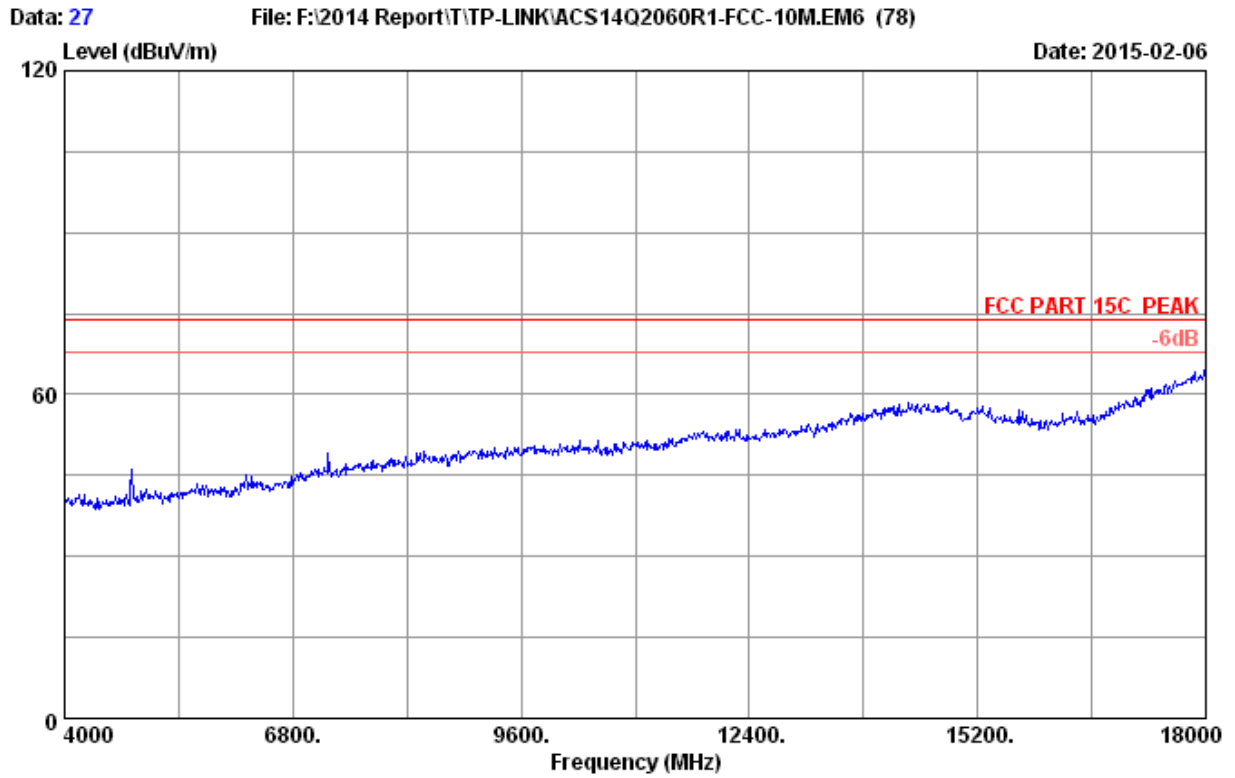
Site no. : 3m Chamber Data no. : 25
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11b 2462 MHz Tx Mode
M/N : CPE220



Site no. : 3m Chamber Data no. : 26
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11b 2462 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.000	33.06	8.69	35.70	44.29	50.34	54.00	3.66	Average
2	4924.000	33.06	8.69	35.70	50.43	56.48	74.00	17.52	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 27
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11g 2412 MHz Tx Mode
M/N : CPE220



Site no. : 3m Chamber Data no. : 28
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11g 2412 MHz Tx Mode
 M/N : CPE220

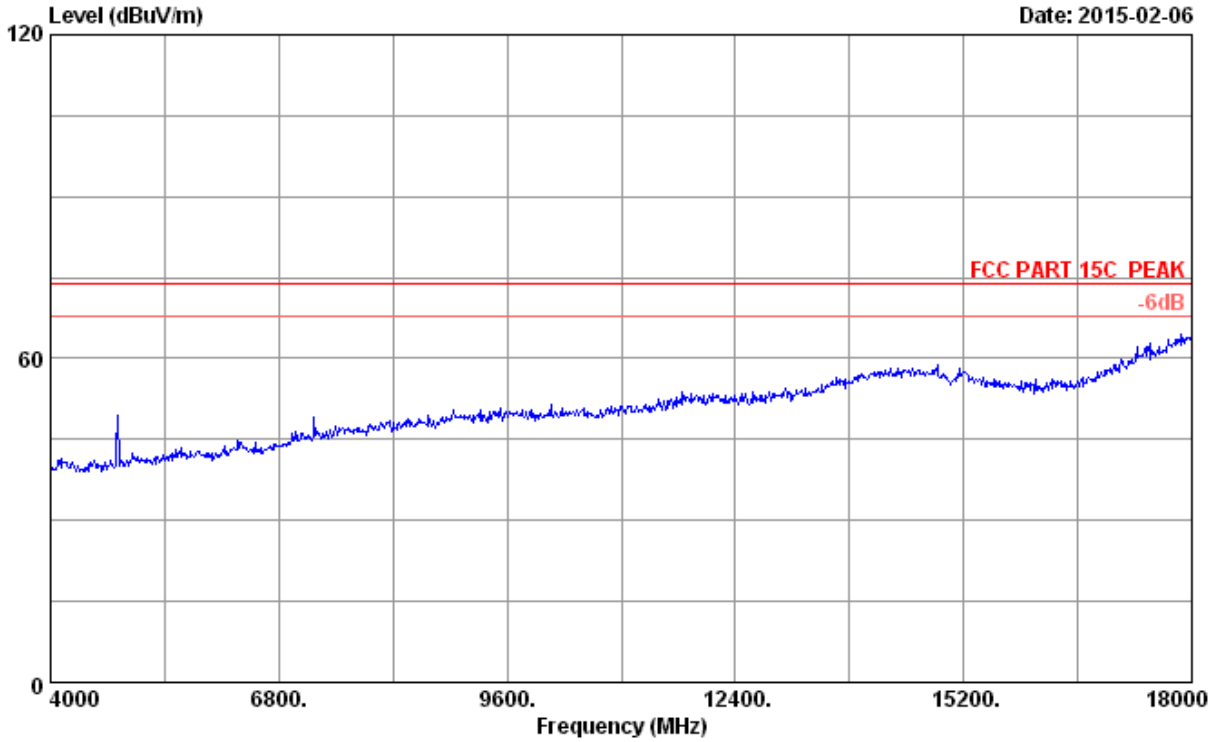
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.000	32.88	8.58	35.70	39.68	45.44	54.00	8.56	Average
2	4824.000	32.88	8.58	35.70	46.92	52.68	74.00	21.32	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 29

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-10M.EM6 (78)

Date: 2015-02-06

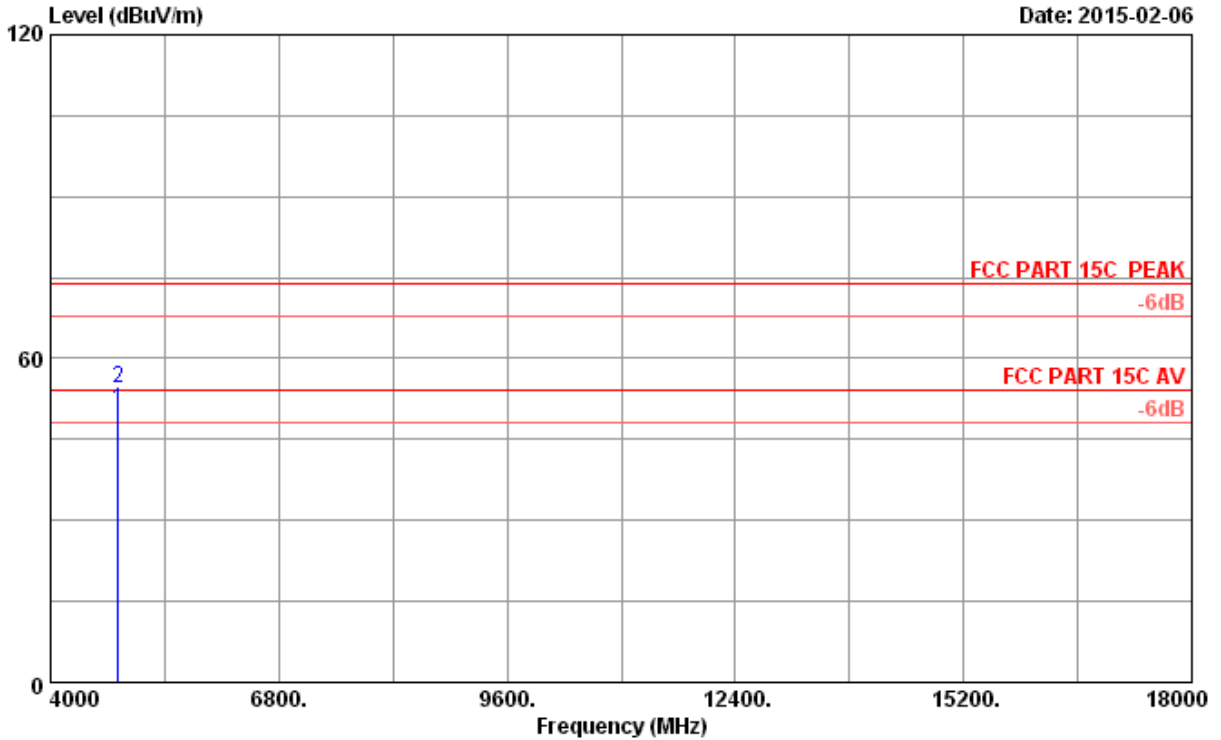


Site no. : 3m Chamber Data no. : 29
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11g 2412 MHz Tx Mode
M/N : CPE220

Data: 30

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-10M.EM6 (78)

Date: 2015-02-06



Site no. : 3m Chamber Data no. : 30
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11g 2412 MHz Tx Mode
 M/N : CPE220

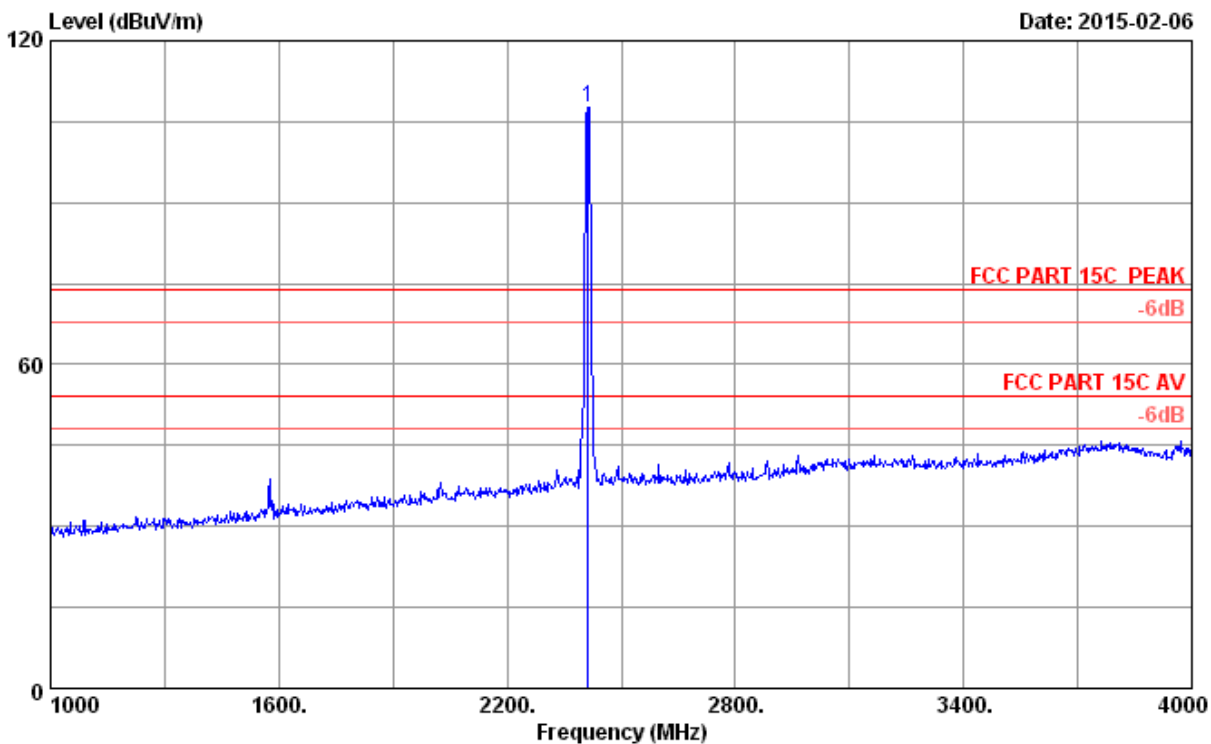
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.000	32.88	8.58	35.70	44.68	50.44	54.00	3.56	Average
2	4824.000	32.88	8.58	35.70	48.68	54.44	74.00	19.56	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 31

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-10M.EM6 (78)

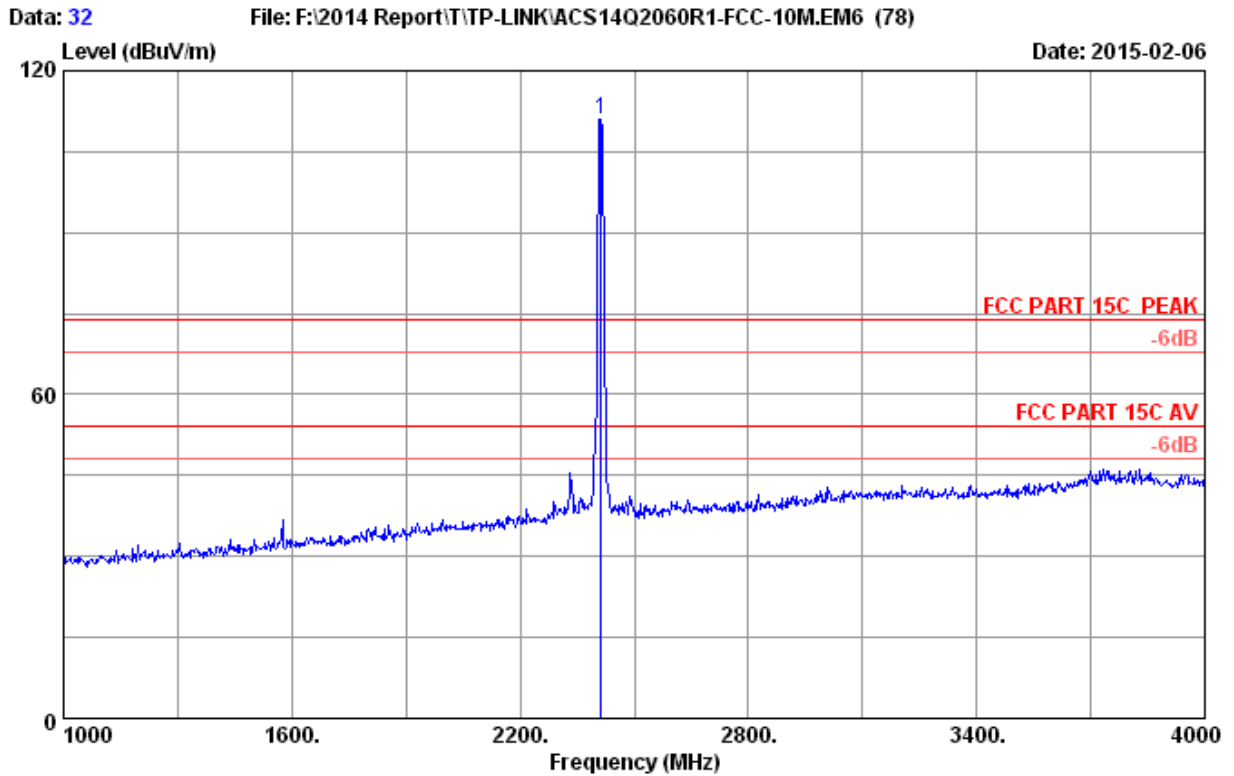
Date: 2015-02-06



Site no. : 3m Chamber Data no. : 31
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11g 2412 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.000	28.21	5.81	35.70	109.19	107.51	74.00	-33.51	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 32
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11g 2412 MHz Tx Mode
 M/N : CPE220

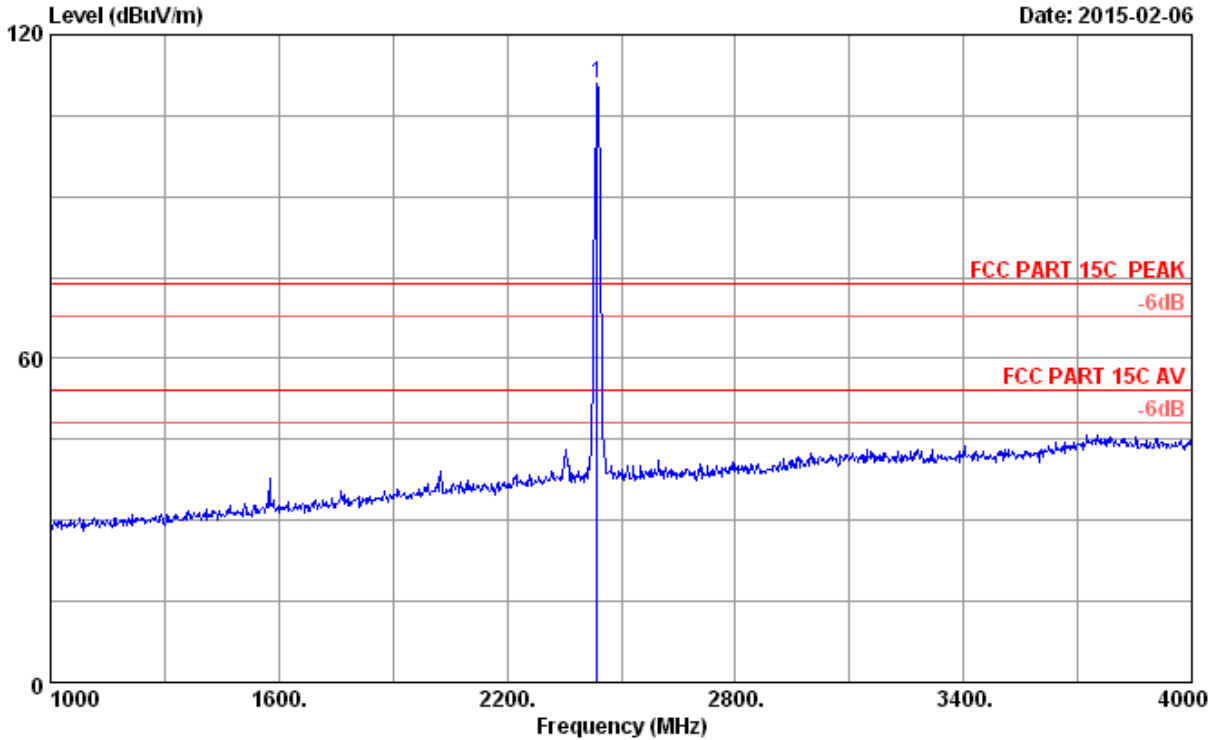
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.000	28.21	5.81	35.70	112.61	110.93	74.00	-36.93	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 37

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-10M.EM6 (78)

Date: 2015-02-06



Site no. : 3m Chamber Data no. : 37
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11g 2437 MHz Tx Mode
 M/N : CPE220

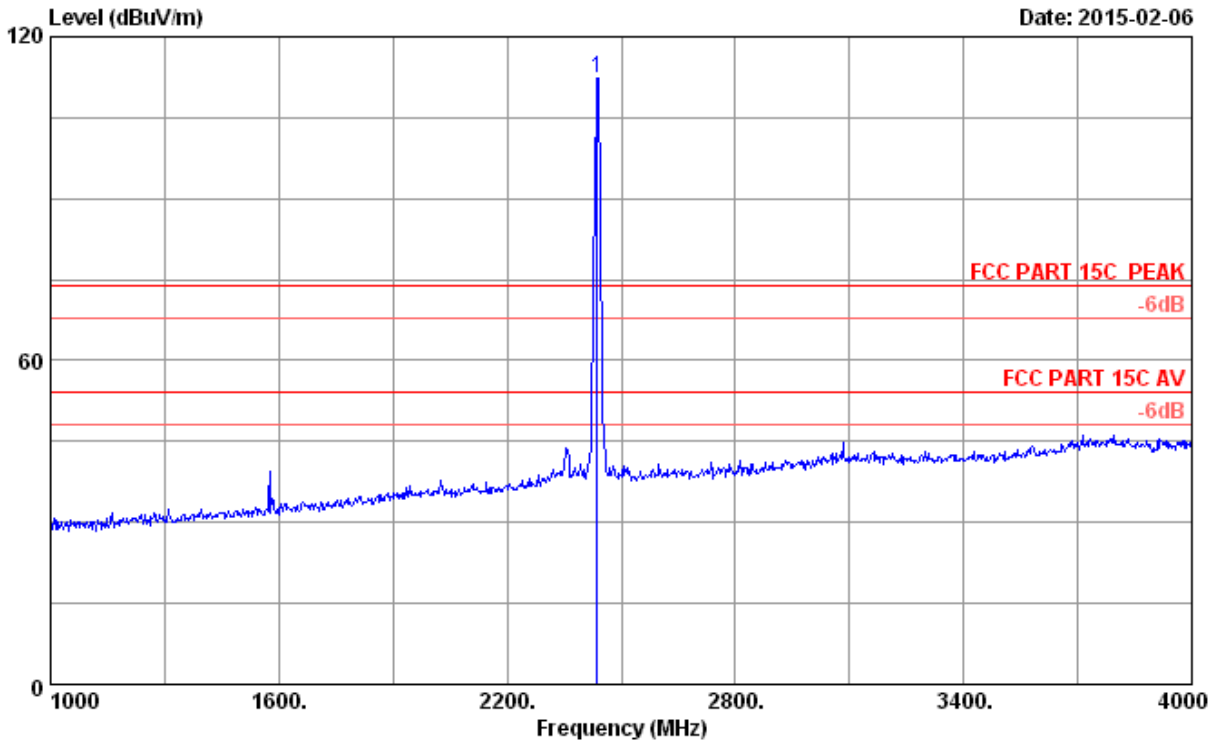
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.000	28.26	5.85	35.70	112.45	110.86	74.00	-36.86	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 38

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-10M.EM6 (78)

Date: 2015-02-06



Site no. : 3m Chamber Data no. : 38
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11g 2437 MHz Tx Mode
 M/N : CPE220

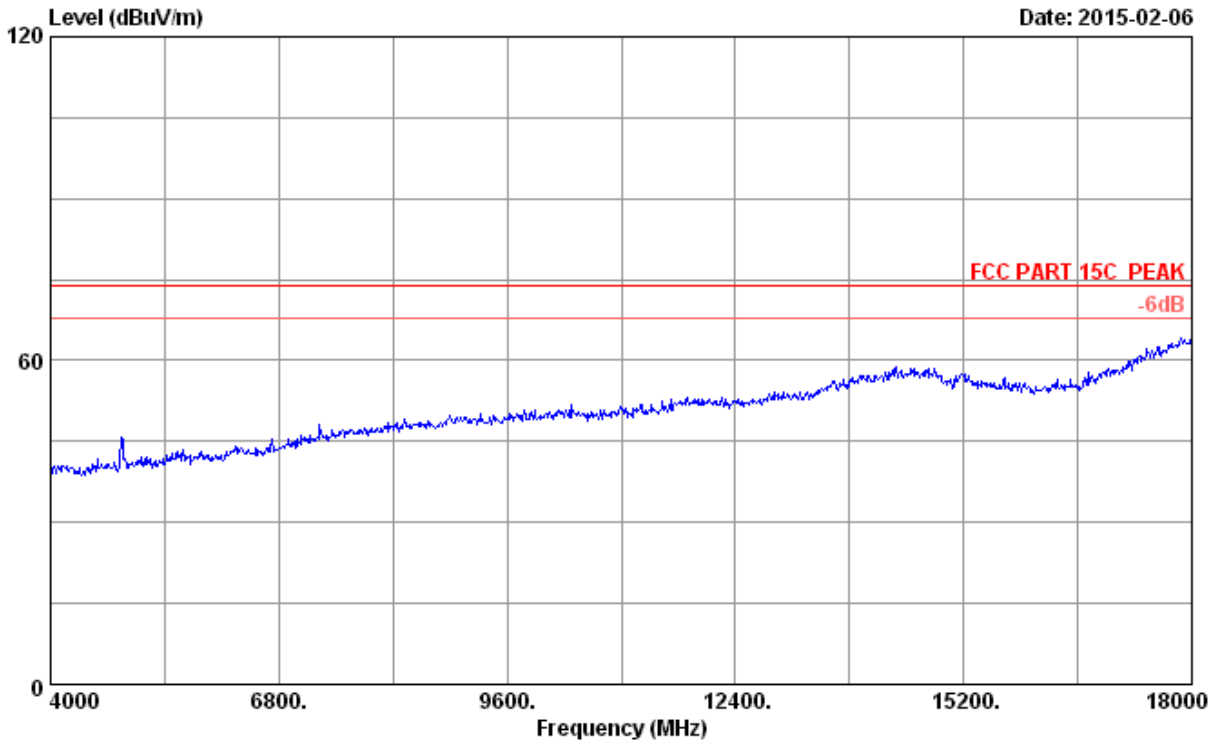
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.000	28.26	5.85	35.70	113.77	112.18	74.00	-38.18	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 39

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-10M.EM6 (78)

Date: 2015-02-06



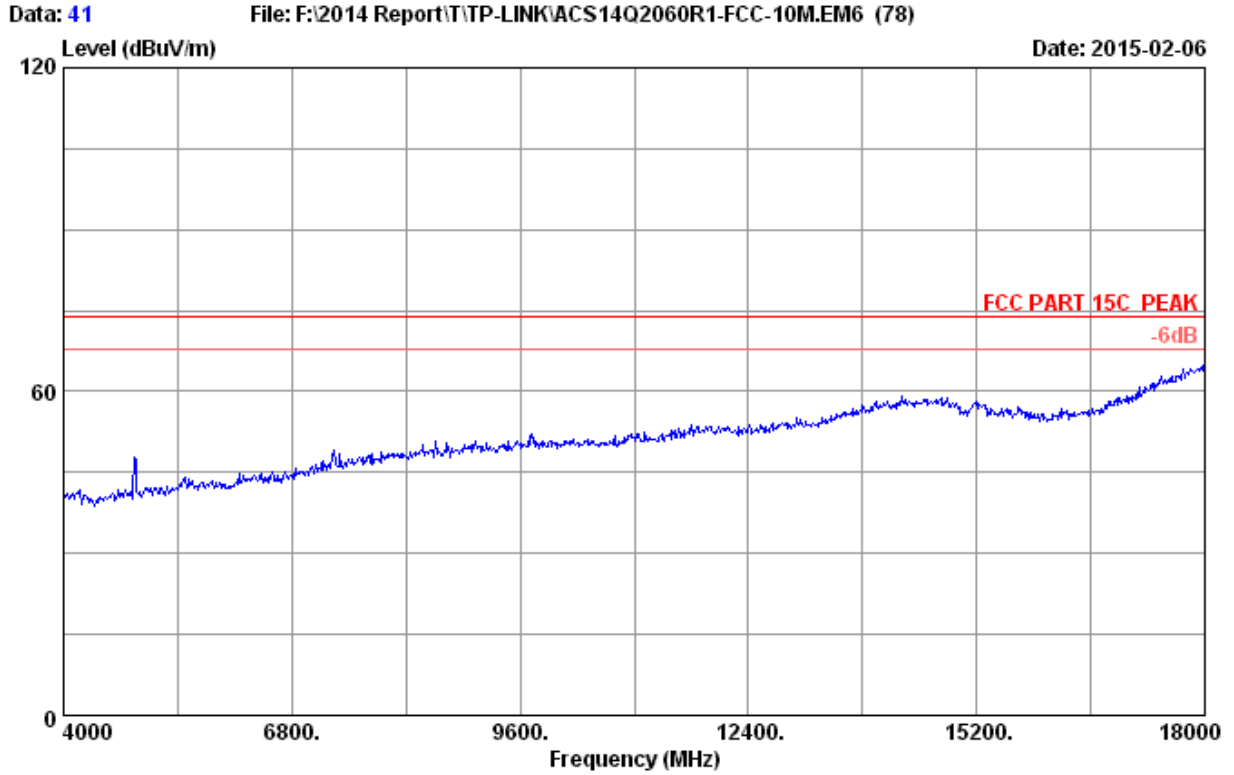
Site no. : 3m Chamber Data no. : 39
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11g 2437 MHz Tx Mode
M/N : CPE220



Site no. : 3m Chamber Data no. : 40
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11g 2437 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	32.97	8.63	35.70	39.63	45.53	54.00	8.47	Average
2	4874.000	32.97	8.63	35.70	45.63	51.53	74.00	22.47	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

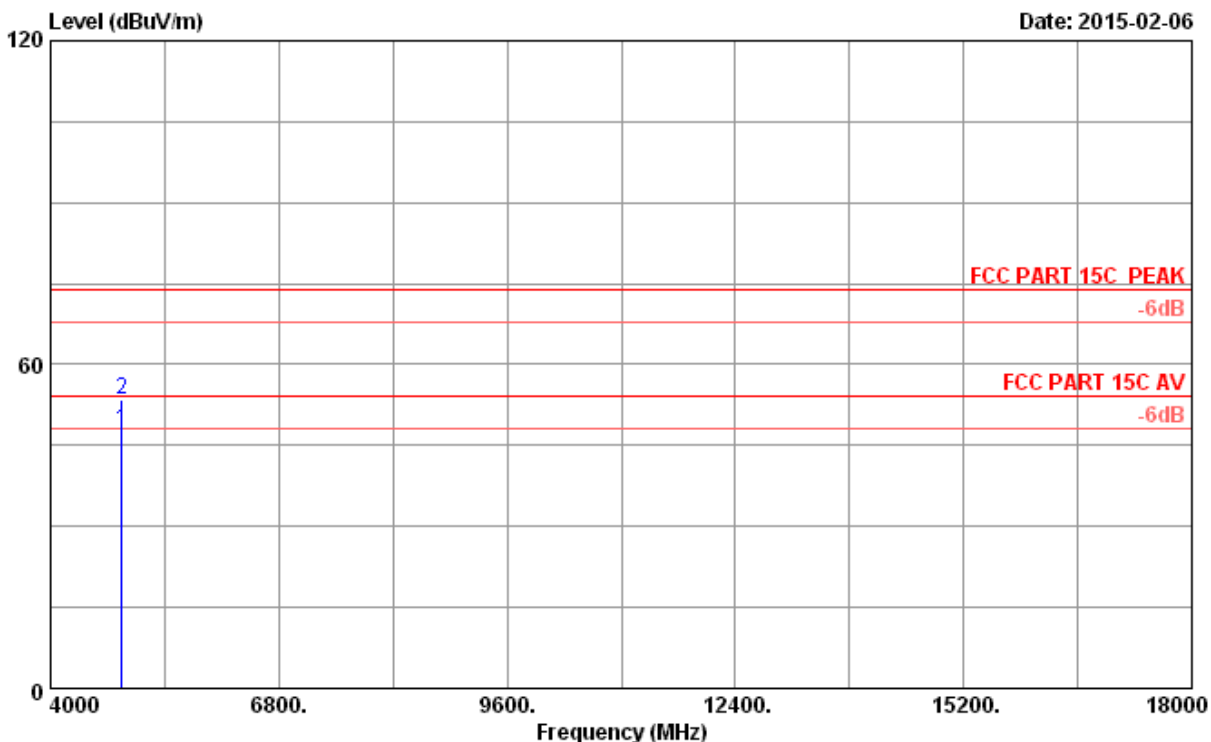


Site no. : 3m Chamber Data no. : 41
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11g 2437 MHz Tx Mode
M/N : CPE220

Data: 42

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-10M.EM6 (78)

Date: 2015-02-06



Site no. : 3m Chamber Data no. : 42
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11g 2437 MHz Tx Mode
 M/N : CPE220

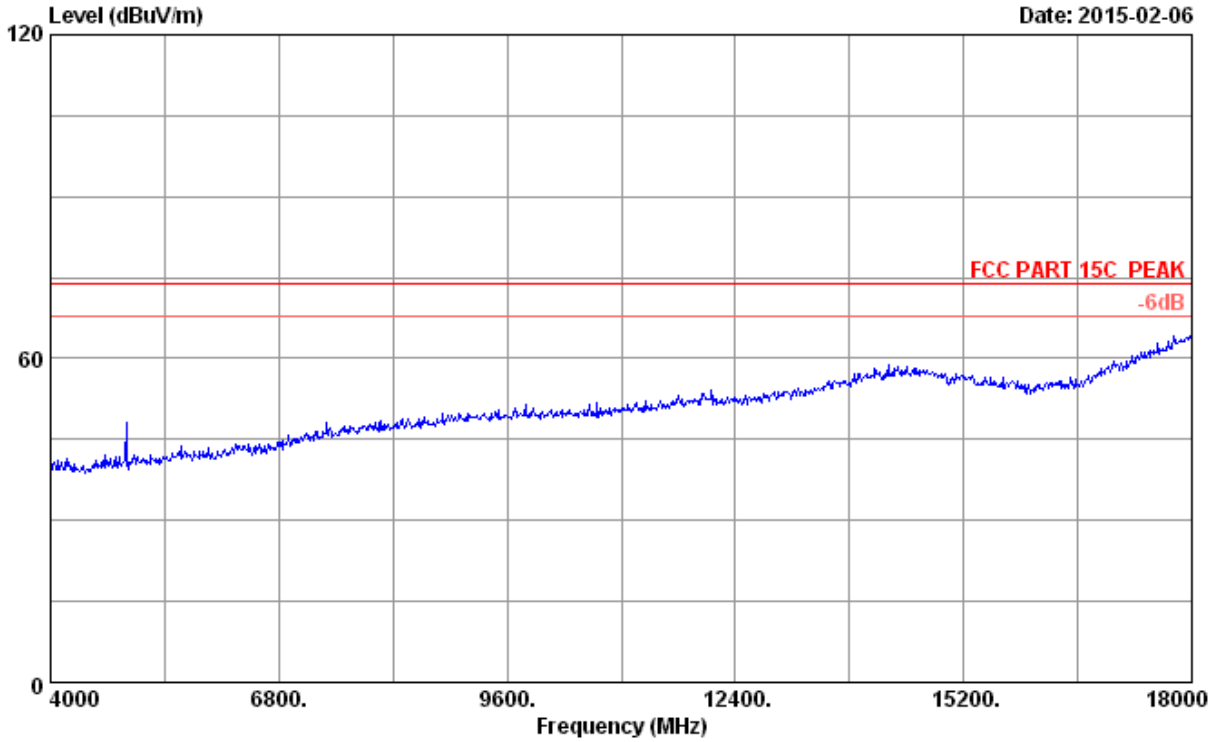
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	32.97	8.63	35.70	41.96	47.86	54.00	6.14	Average
2	4874.000	32.97	8.63	35.70	47.68	53.58	74.00	20.42	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 43

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-10M.EM6 (78)

Date: 2015-02-06

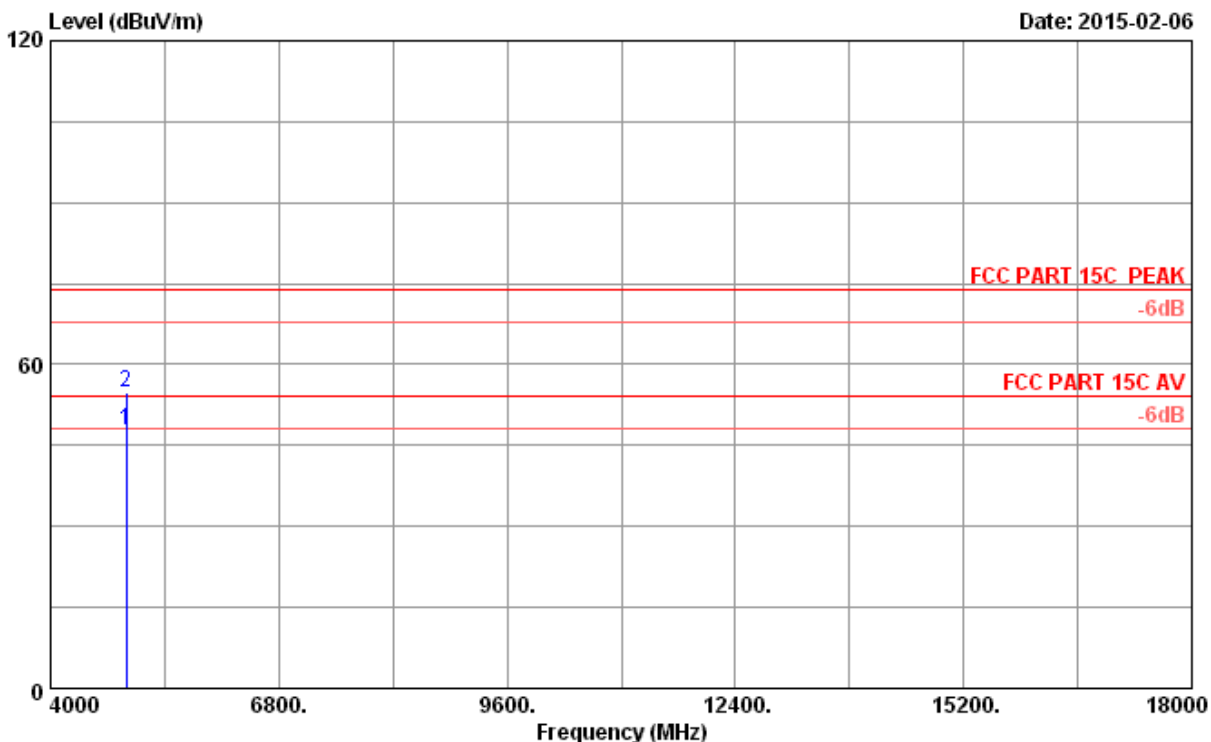


Site no. : 3m Chamber Data no. : 43
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11g 2462 MHz Tx Mode
M/N : CPE220

Data: 44

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-10M.EM6 (78)

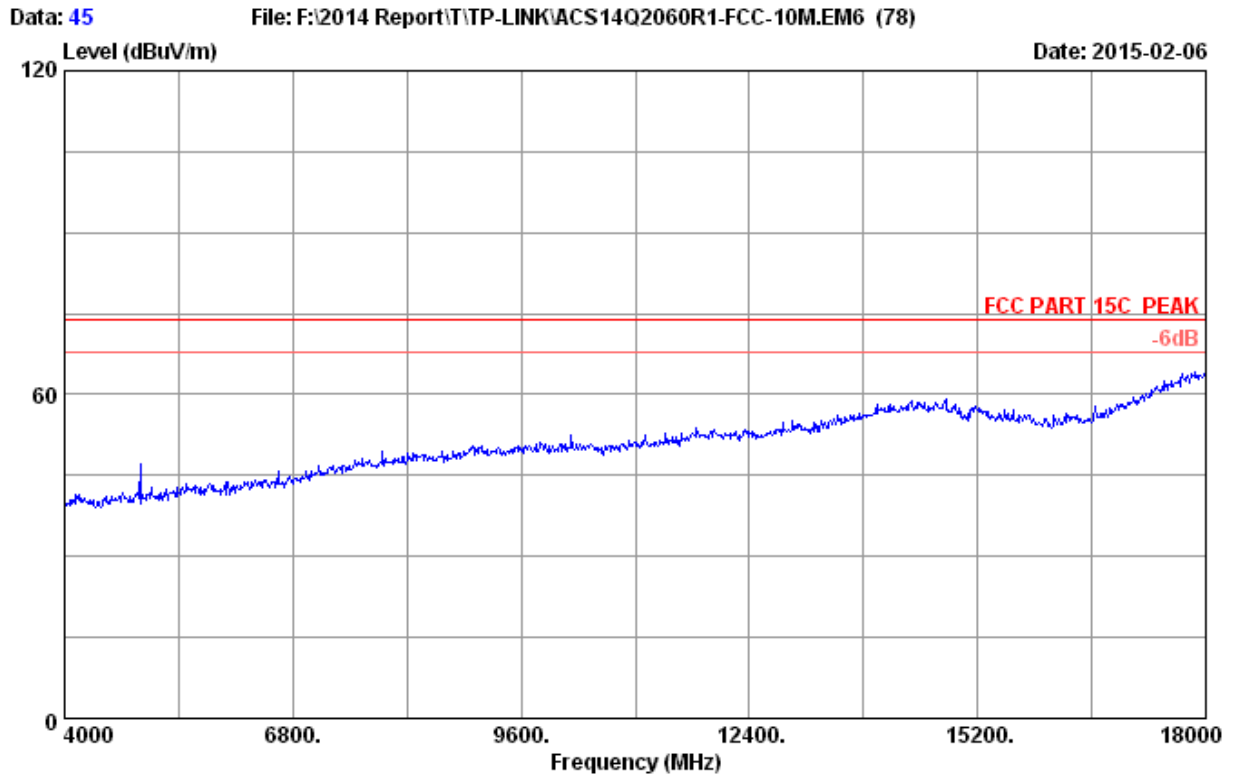
Date: 2015-02-06



Site no. : 3m Chamber Data no. : 44
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11g 2462 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.000	33.06	8.69	35.70	41.63	47.68	54.00	6.32	Average
2	4924.000	33.06	8.69	35.70	48.61	54.66	74.00	19.34	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

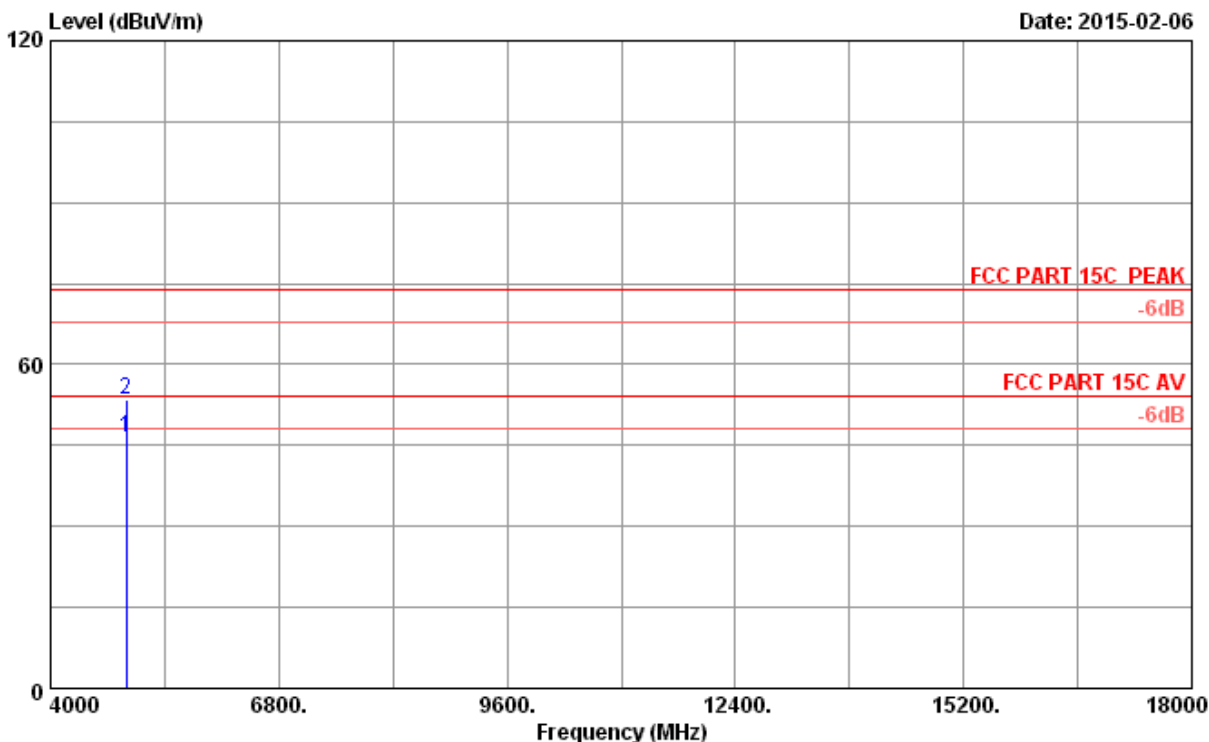


Site no. : 3m Chamber Data no. : 45
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11g 2462 MHz Tx Mode
M/N : CPE220

Data: 46

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-10M.EM6 (78)

Date: 2015-02-06



Site no. : 3m Chamber Data no. : 46
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11g 2462 MHz Tx Mode
 M/N : CPE220

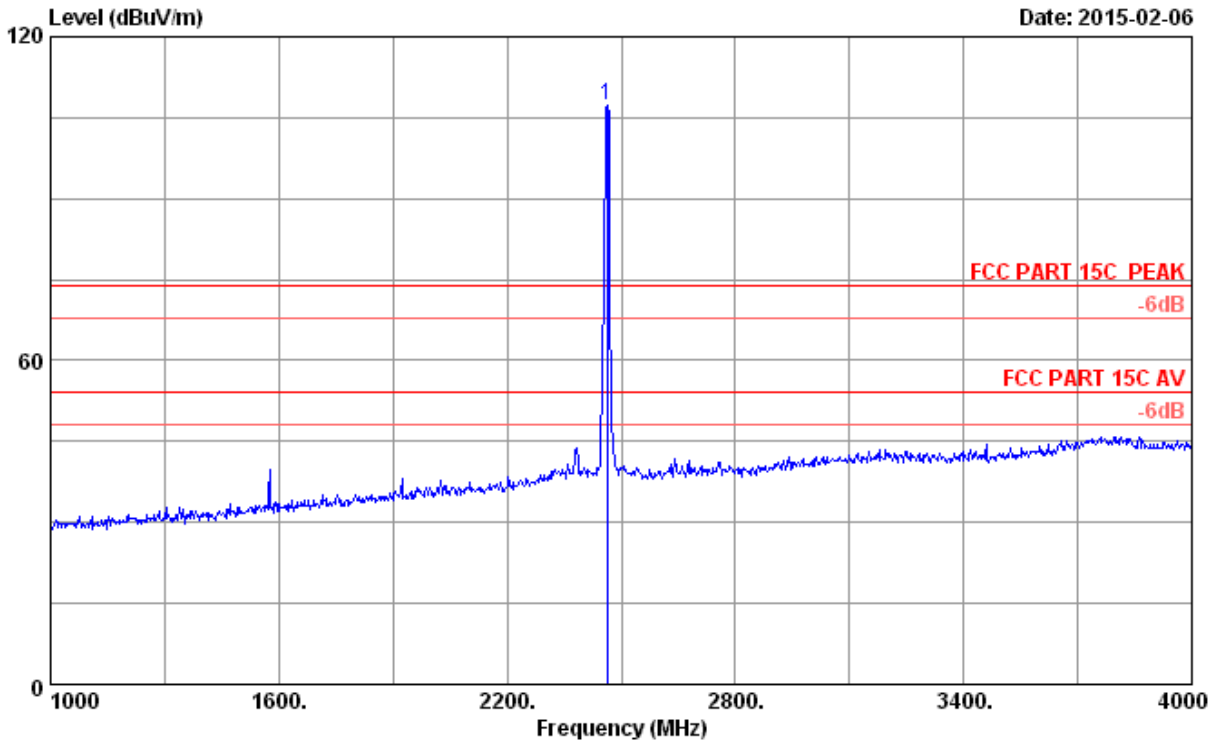
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.000	33.06	8.69	35.70	40.57	46.62	54.00	7.38	Average
2	4924.000	33.06	8.69	35.70	47.27	53.32	74.00	20.68	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 47

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-10M.EM6 (78)

Date: 2015-02-06



Site no. : 3m Chamber Data no. : 47
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11g 2462 MHz Tx Mode
 M/N : CPE220

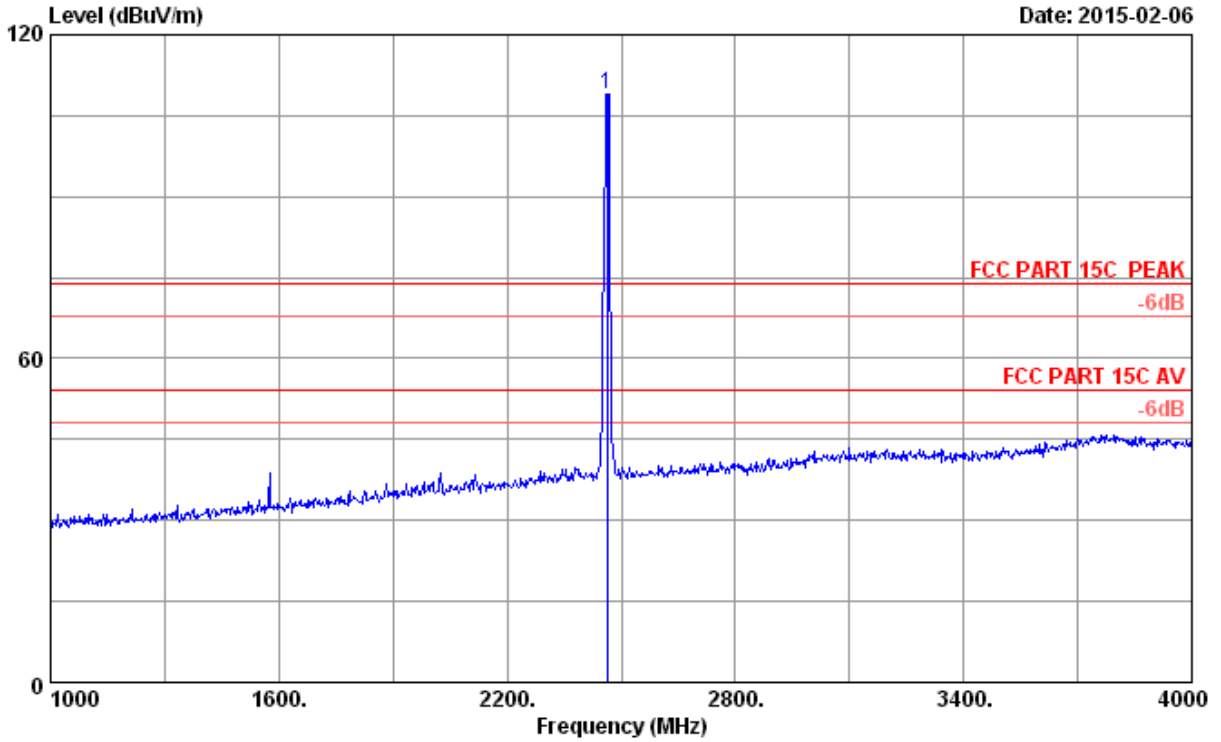
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.000	28.32	5.89	35.70	108.74	107.25	74.00	-33.25	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 48

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC-10M.EM6 (78)

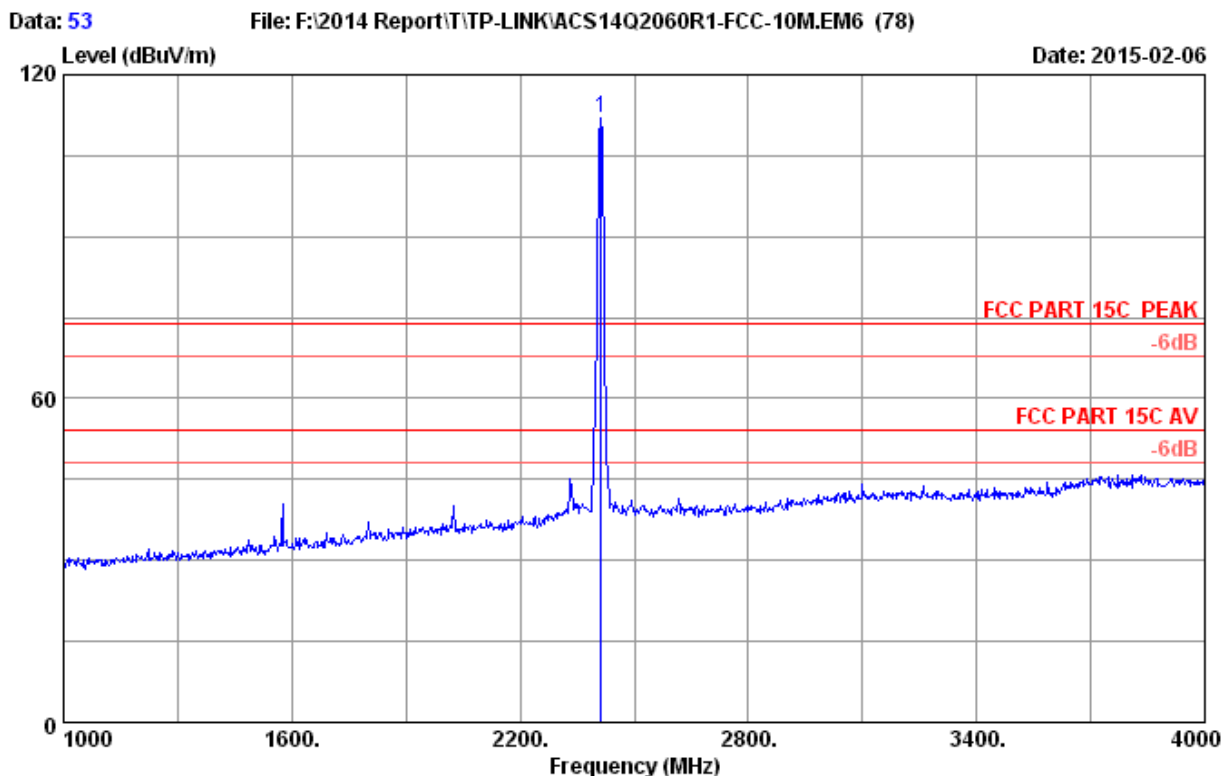
Date: 2015-02-06



Site no. : 3m Chamber Data no. : 48
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11g 2462 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.000	28.32	5.89	35.70	110.54	109.05	74.00	-35.05	Peak

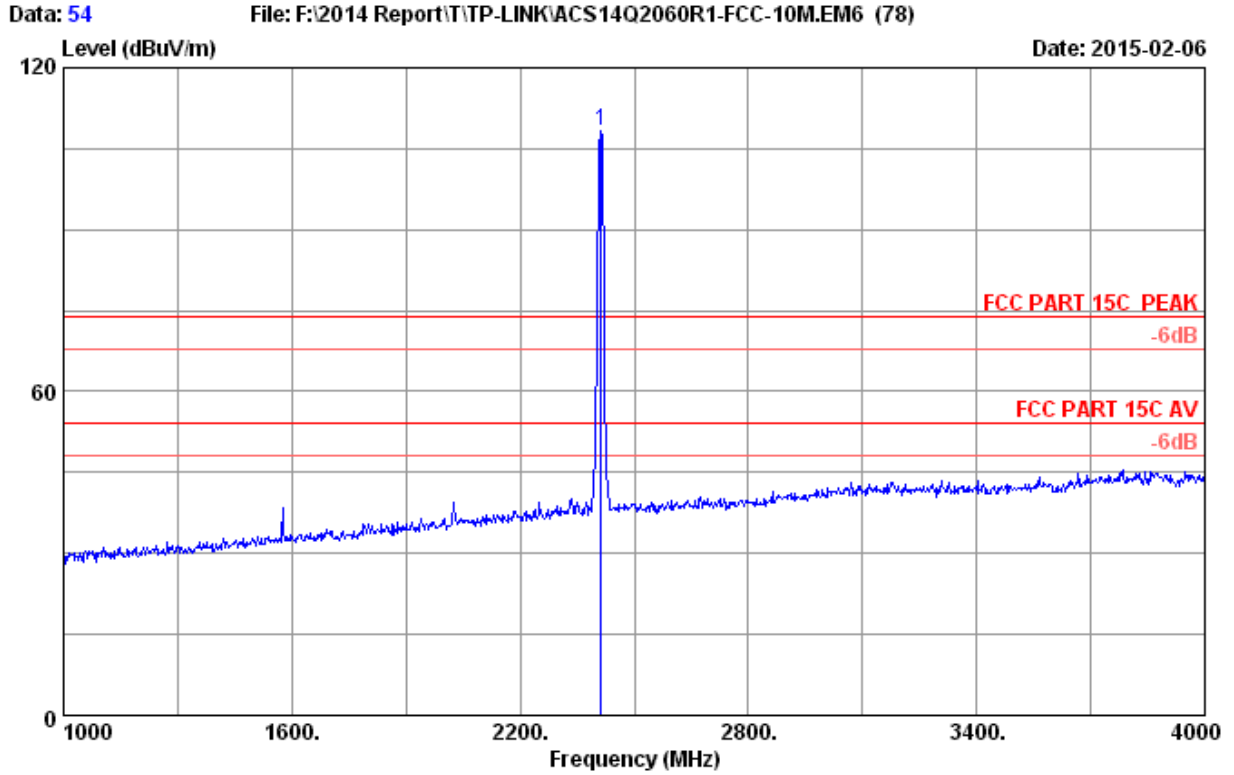
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 53
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2412 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.000	28.21	5.81	35.70	113.67	111.99	74.00	-37.99	Peak

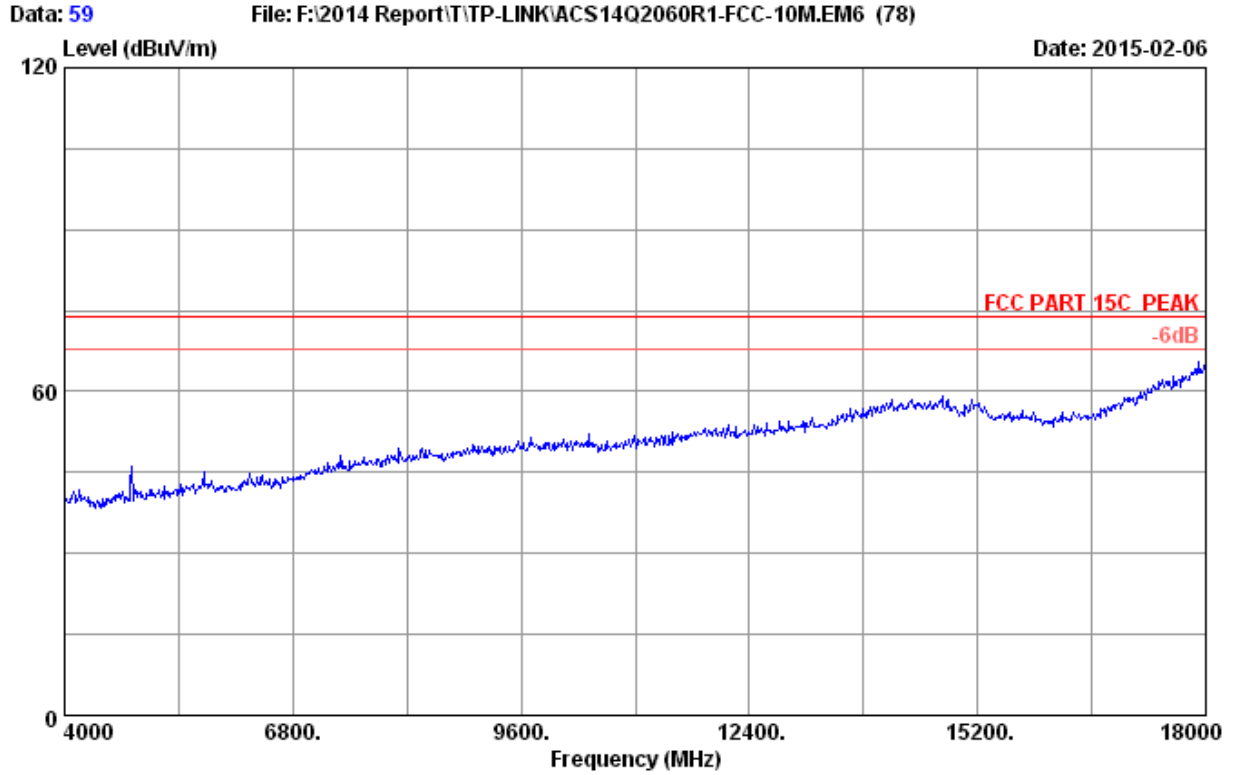
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 54
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2412 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.000	28.21	5.81	35.70	110.07	108.39	74.00	-34.39	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



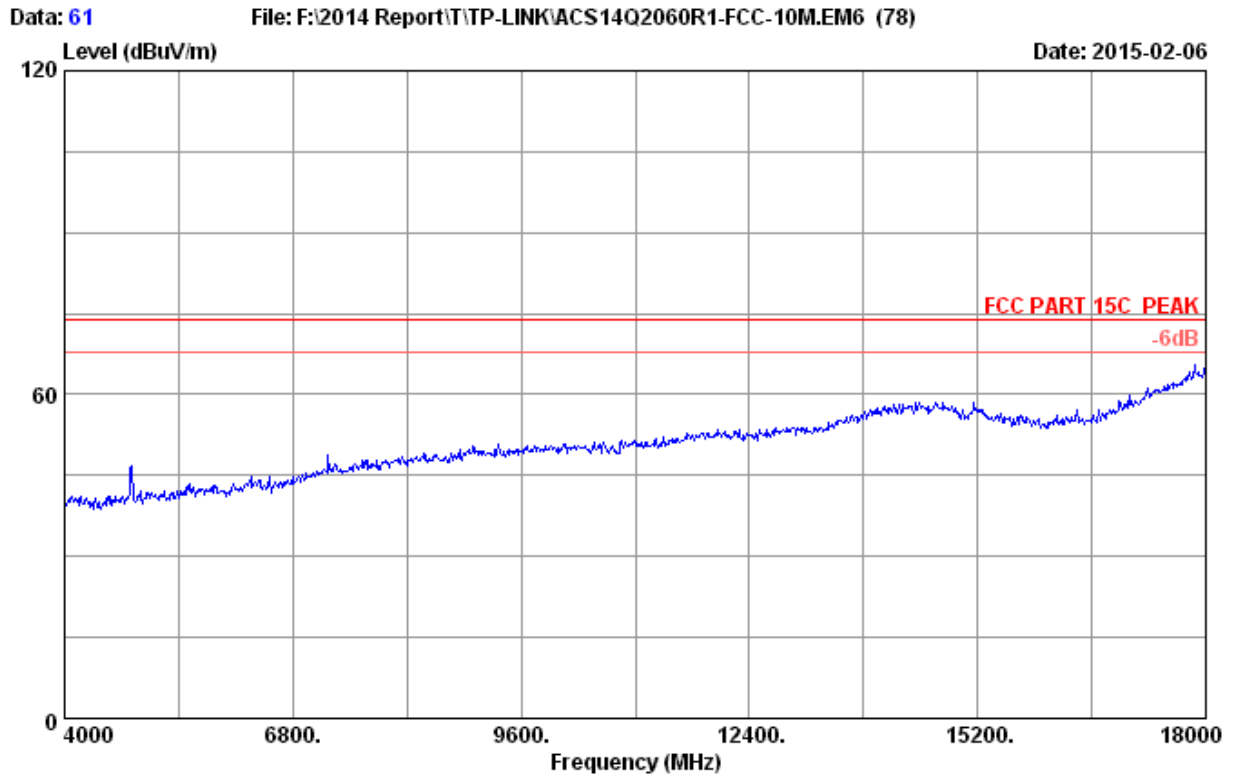
Site no. : 3m Chamber Data no. : 59
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11nHT20 2412 MHz Tx Mode
M/N : CPE220



Site no. : 3m Chamber Data no. : 60
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2412 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.000	32.88	8.58	35.70	40.61	46.37	54.00	7.63	Average
2	4824.000	32.88	8.58	35.70	46.64	52.40	74.00	21.60	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



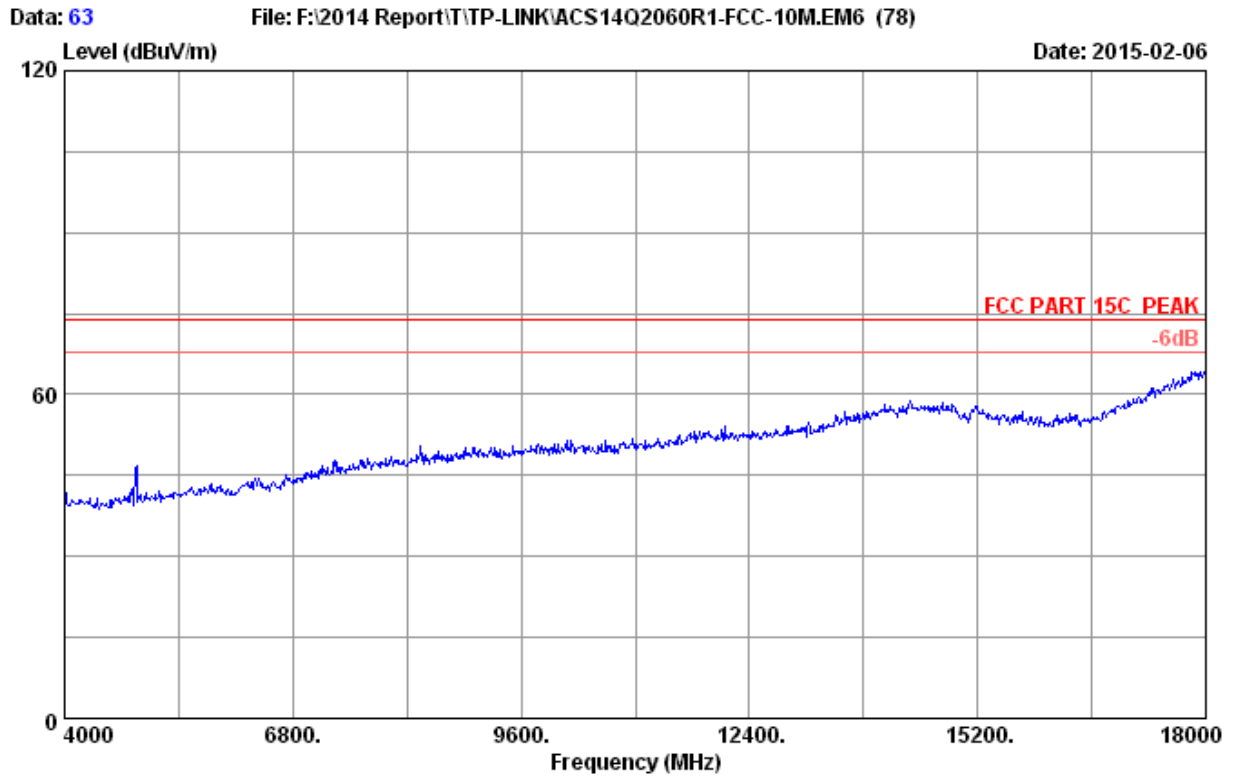
Site no. : 3m Chamber Data no. : 61
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11nHT20 2412 MHz Tx Mode
M/N : CPE220



Site no. : 3m Chamber Data no. : 62
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2412 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.000	32.88	8.58	35.70	40.85	46.61	54.00	7.39	Average
2	4824.000	32.88	8.58	35.70	48.30	54.06	74.00	19.94	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



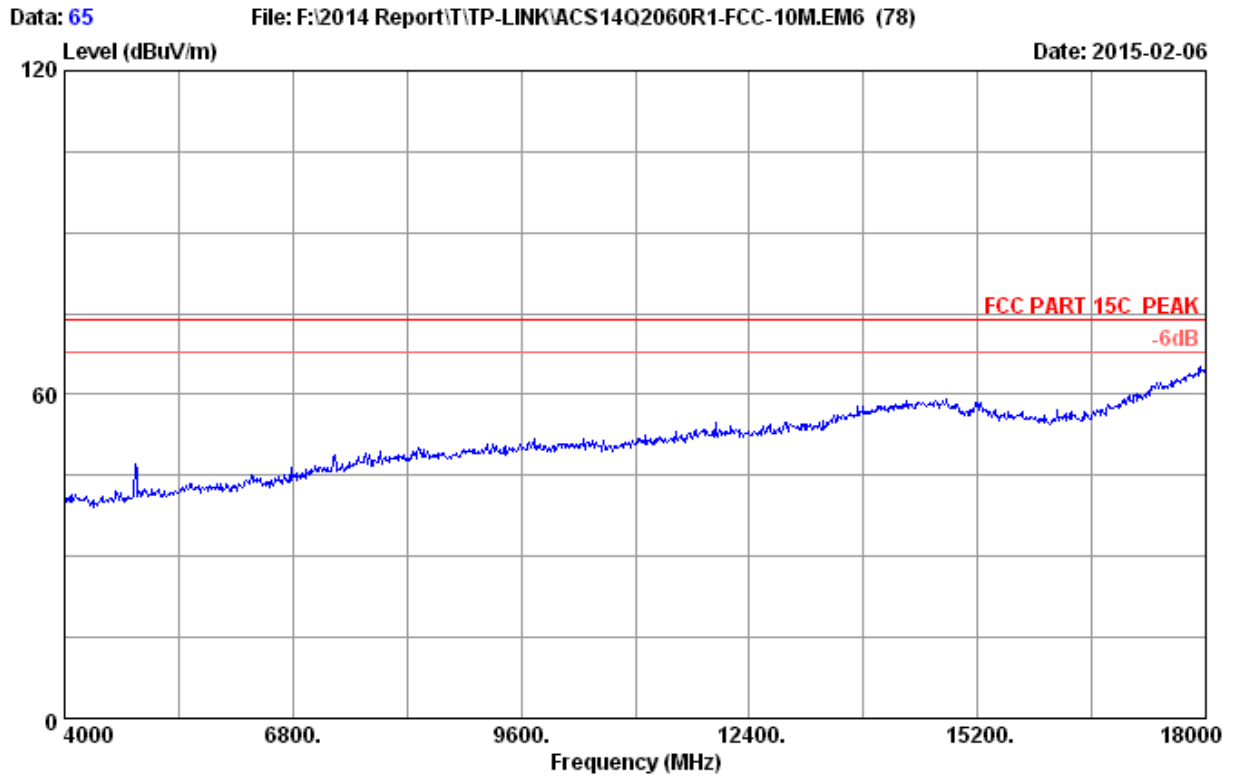
Site no. : 3m Chamber Data no. : 63
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11nHT20 2437 MHz Tx Mode
M/N : CPE220



Site no. : 3m Chamber Data no. : 64
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2437 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	32.97	8.63	35.70	40.67	46.57	54.00	7.43	Average
2	4874.000	32.97	8.63	35.70	47.68	53.58	74.00	20.42	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



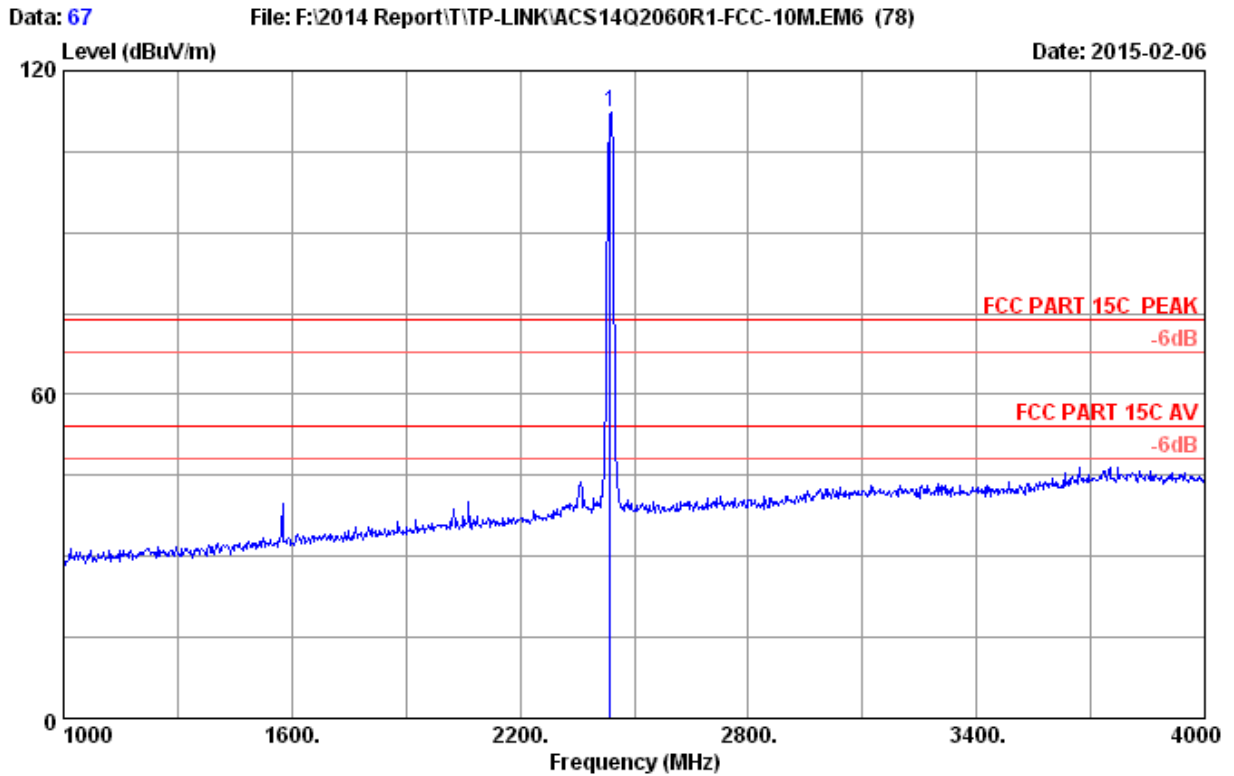
Site no. : 3m Chamber Data no. : 65
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11nHT20 2437 MHz Tx Mode
M/N : CPE220



Site no. : 3m Chamber Data no. : 66
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2437 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	32.97	8.63	35.70	41.56	47.46	54.00	6.54	Average
2	4874.000	32.97	8.63	35.70	47.87	53.77	74.00	20.23	Peak

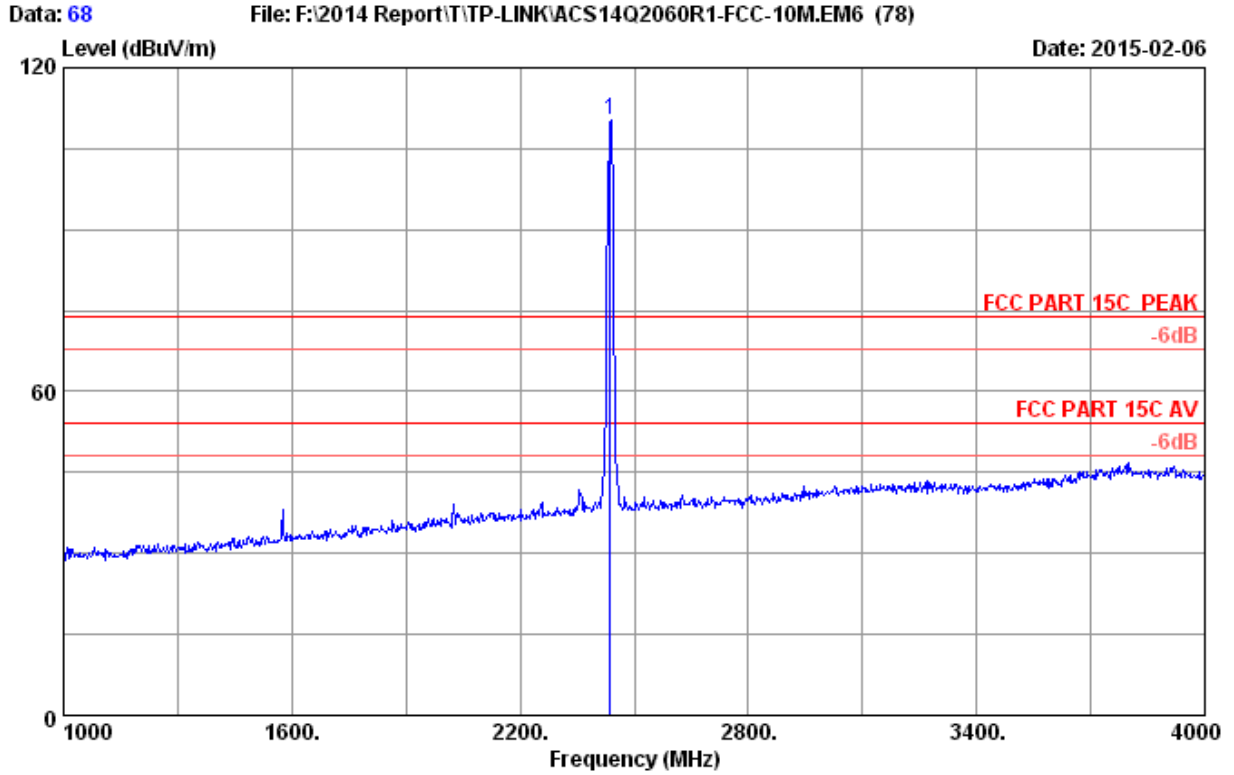
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 67
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2437 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.000	28.26	5.85	35.70	114.01	112.42	74.00	-38.42	Peak

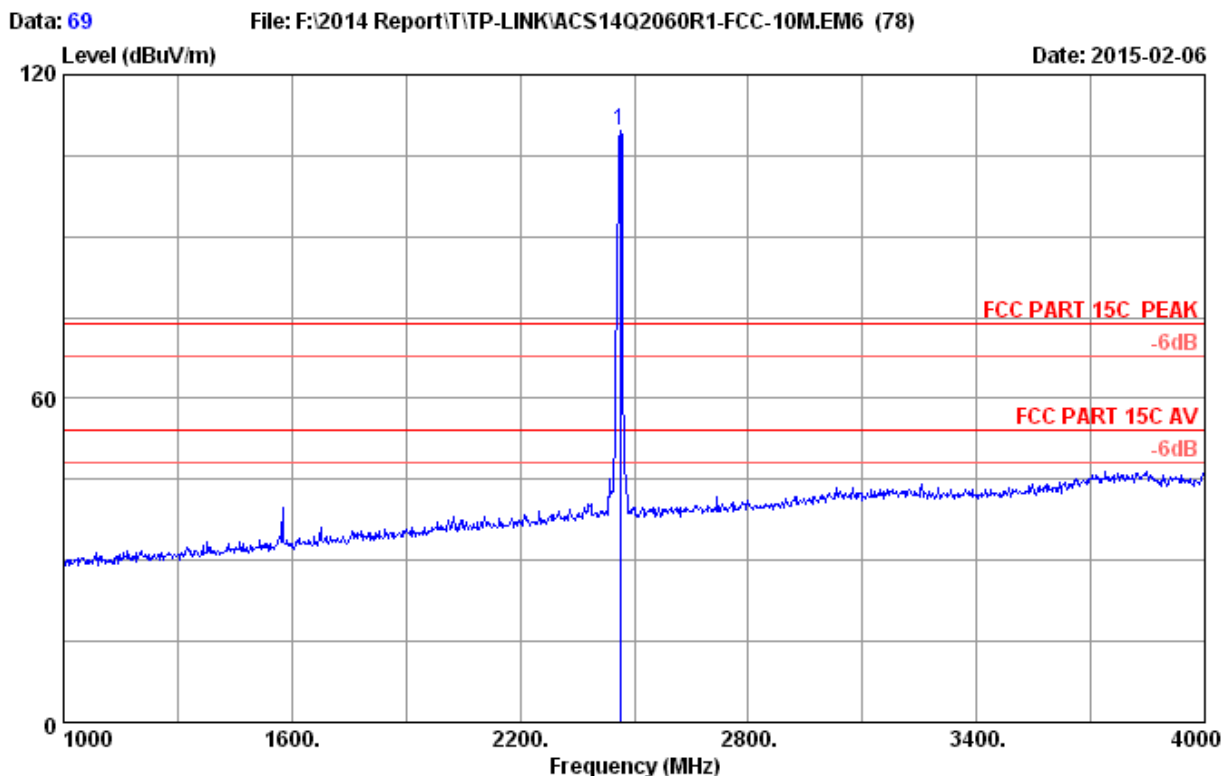
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 68
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2437 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.000	28.26	5.85	35.70	111.83	110.24	74.00	-36.24	Peak

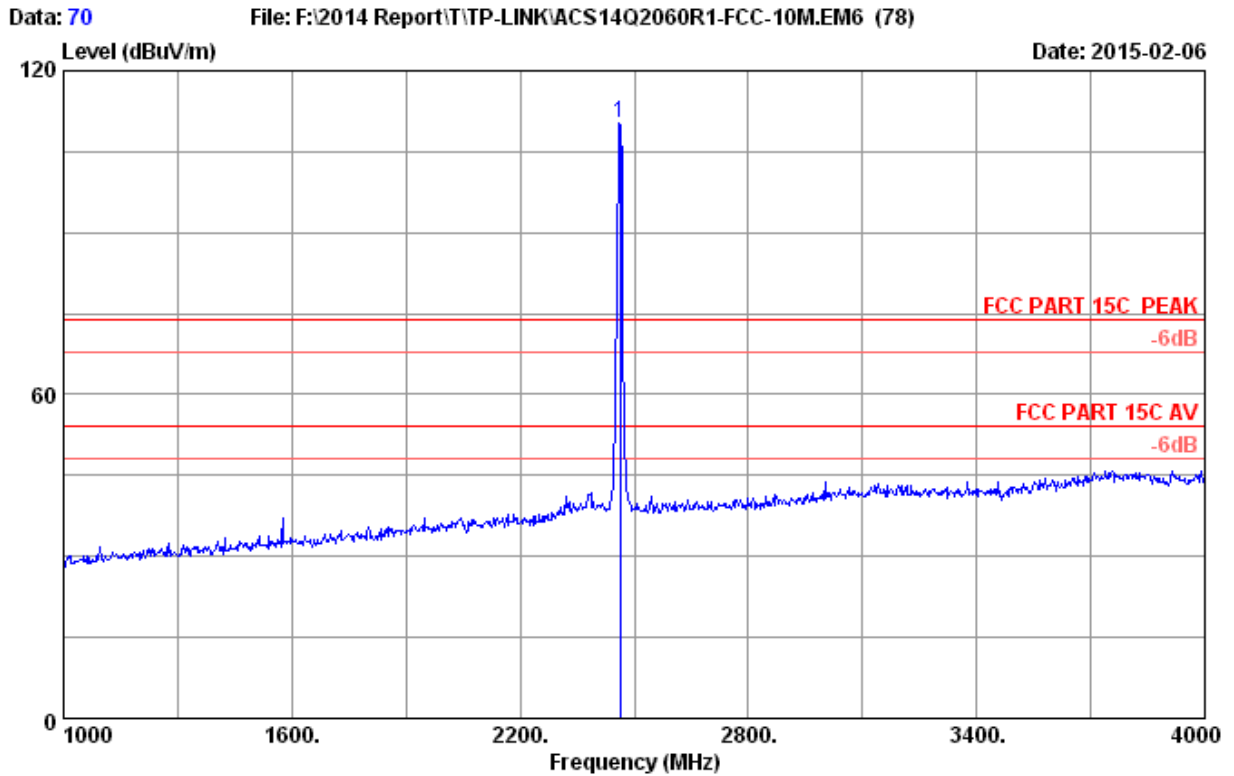
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 69
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2462 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.000	28.32	5.89	35.70	111.17	109.68	74.00	-35.68	Peak

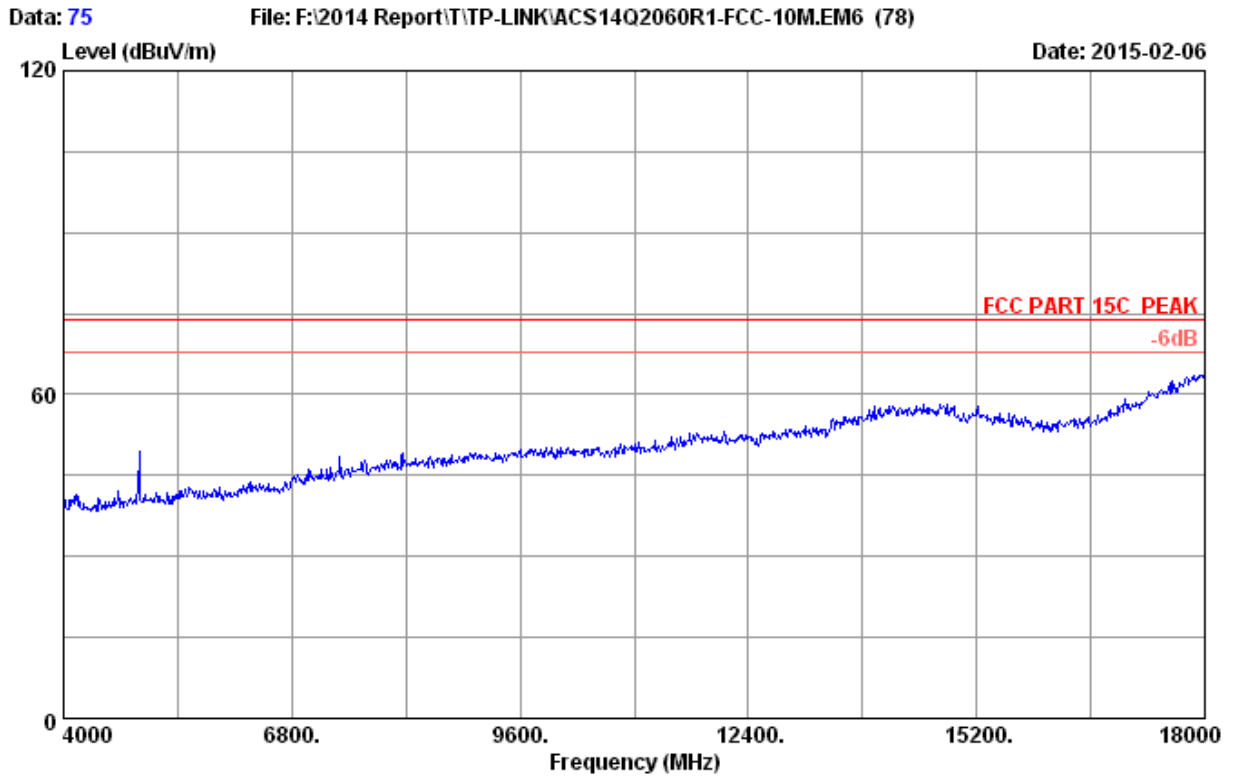
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



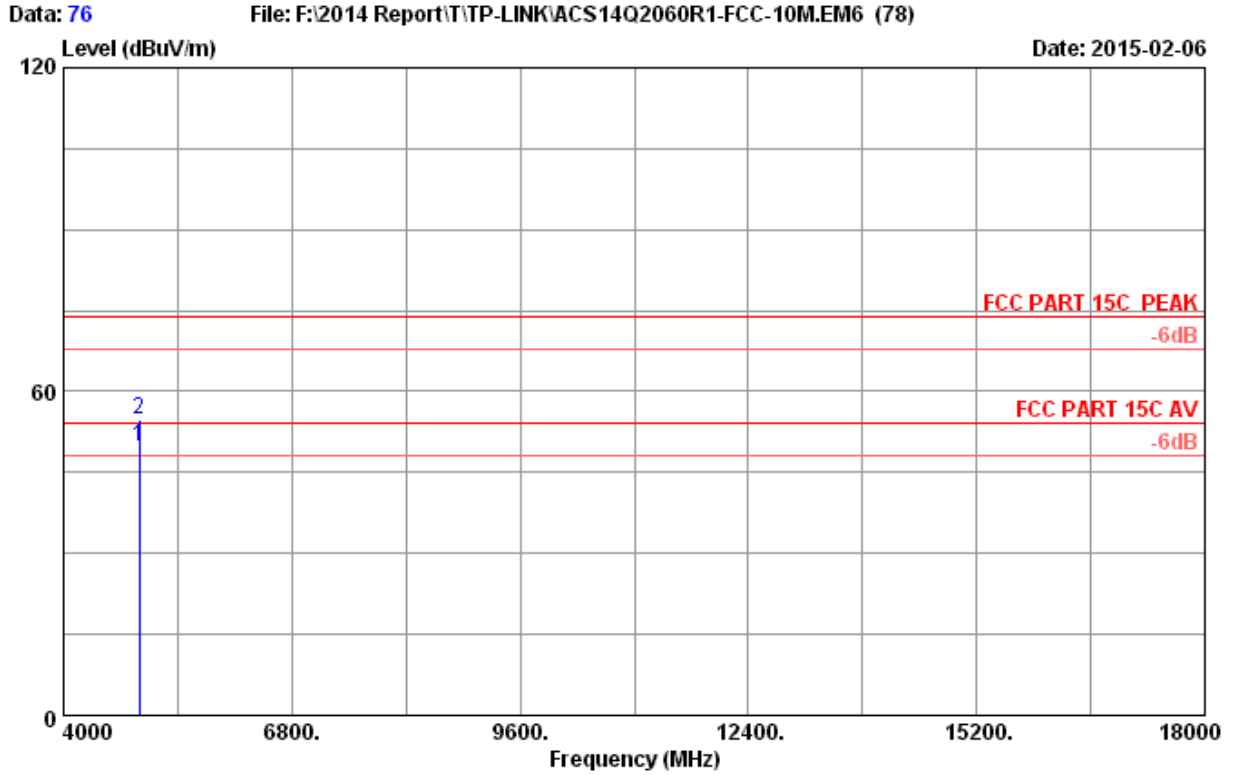
Site no. : 3m Chamber Data no. : 70
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2462 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission			Remark
						Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	2462.000	28.32	5.89	35.70	111.92	110.43	74.00	-36.43	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



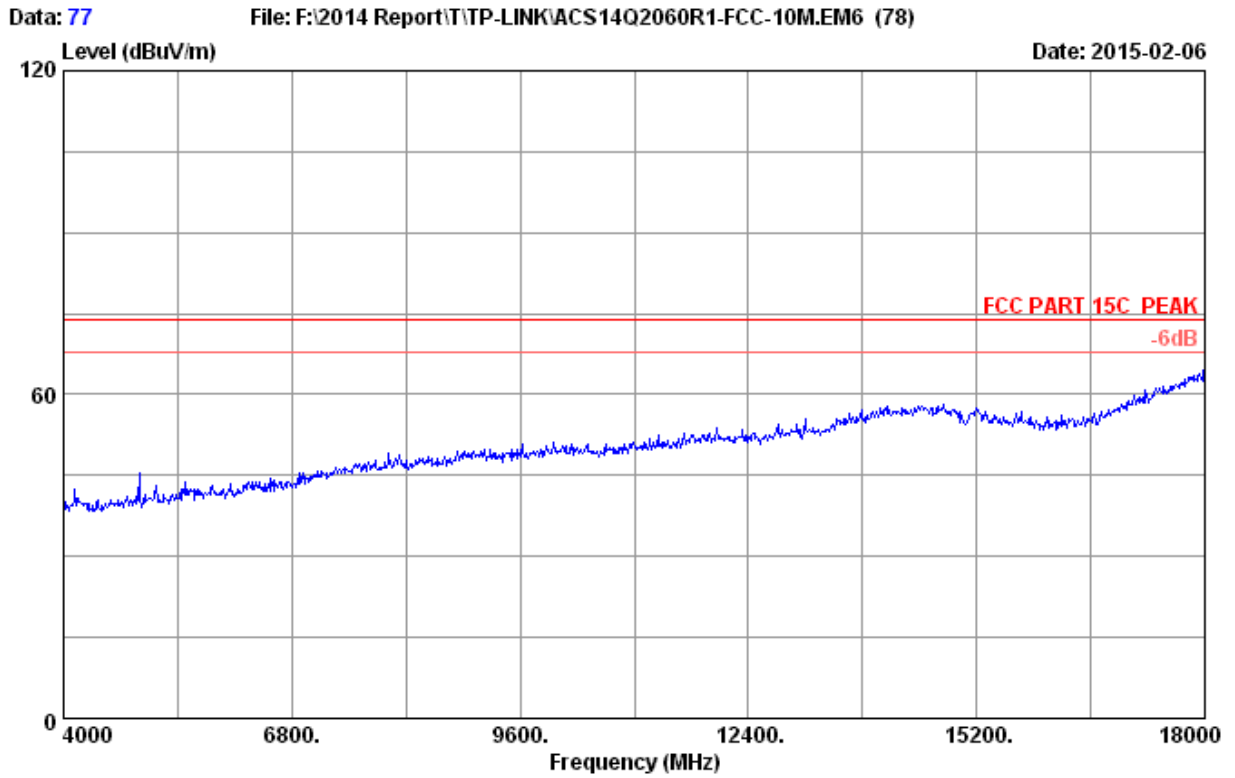
Site no. : 3m Chamber Data no. : 75
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11nHT20 2462 MHz Tx Mode
M/N : CPE220



Site no. : 3m Chamber Data no. : 76
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2462 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.000	33.06	8.69	35.70	43.70	49.75	54.00	4.25	Average
2	4924.000	33.06	8.69	35.70	48.92	54.97	74.00	19.03	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 77
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11nHT20 2462 MHz Tx Mode
M/N : CPE220



Site no. : 3m Chamber Data no. : 78
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2462 MHz Tx Mode
 M/N : CPE220

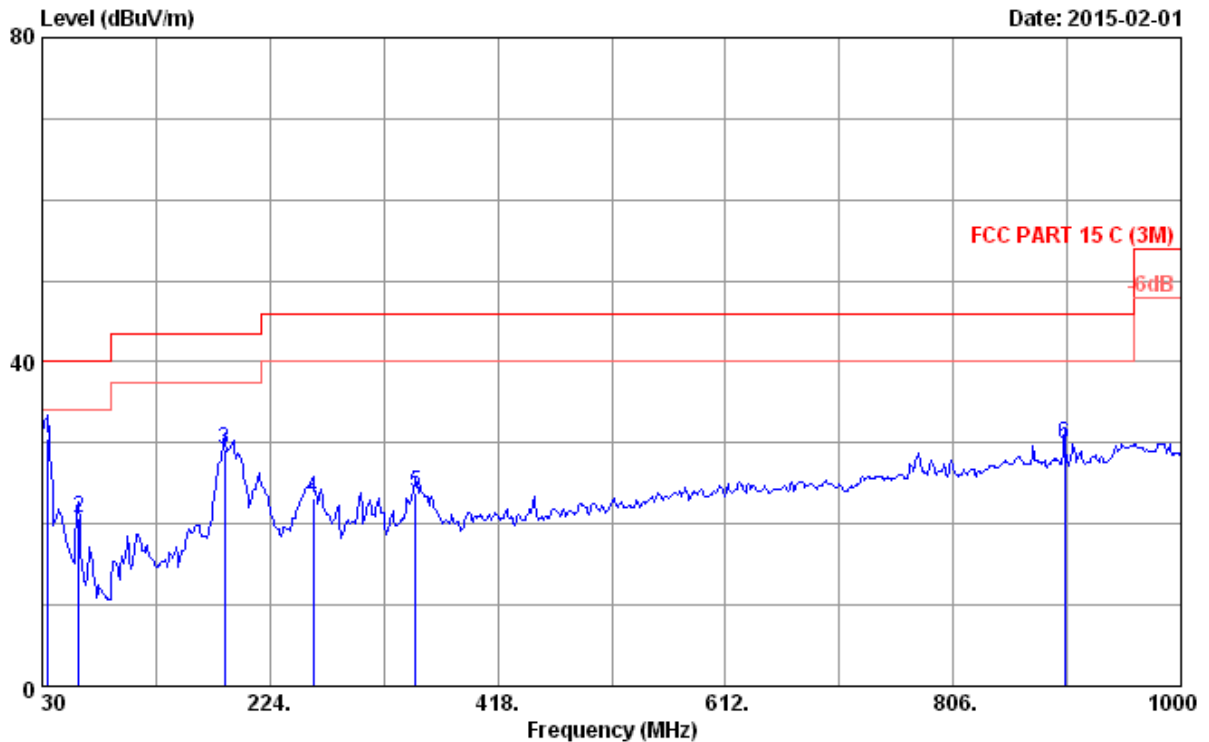
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.000	33.06	8.69	35.70	39.86	45.91	54.00	8.09	Average
2	4924.000	33.06	8.69	35.70	46.93	52.98	74.00	21.02	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

20MHz
Frequency: 30MHz~1GHz

Data: 5 File: E:\2014 Report Data\TP-LINK\ACS14Q2060-rf.EM6 (8)

Date: 2015-02-01

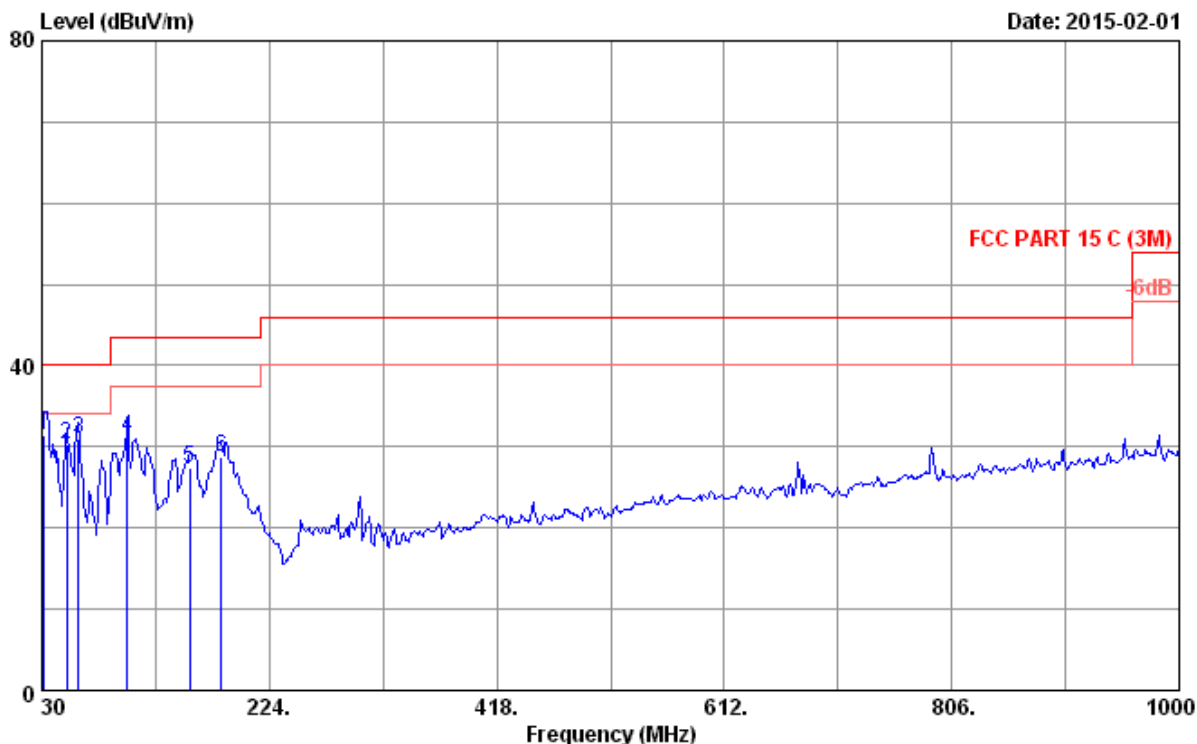


Site no. : 3m Chamber Data no. : 5
 Dis. / Ant. : 3m 2014 CBL6112D 35375 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 24.4°C/40% Engineer : Donjon
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : TX Mode
 M/N:CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	34.850	16.93	0.65	12.88	30.46	40.00	9.54	QP
2	61.040	6.40	0.87	13.36	20.63	40.00	19.37	QP
3	185.200	9.70	1.76	17.73	29.19	43.50	14.31	QP
4	260.860	14.04	2.12	6.98	23.14	46.00	22.86	QP
5	348.160	15.35	2.55	5.99	23.89	46.00	22.11	QP
6	901.060	22.02	4.87	2.86	29.75	46.00	16.25	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 6 File: E:\2014 Report Data\TP-LINK\ACS14Q2060-rf.EM6 (8)



Site no. : 3m Chamber Data no. : 6
 Dis. / Ant. : 3m 2014 CBL6112D 35375 Ant. pol. : VERTICAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 24.4°C/40% Engineer : Donjon
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : TX Mode
 M/N:CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.940	18.82	0.62	11.97	31.41	40.00	8.59	QP
2	51.340	8.43	0.78	21.12	30.33	40.00	9.67	QP
3	61.040	6.40	0.87	23.63	30.90	40.00	9.10	QP
4	102.750	11.54	1.14	18.58	31.26	43.50	12.24	QP
5	156.100	11.00	1.58	14.84	27.42	43.50	16.08	QP
6	183.260	9.70	1.75	17.28	28.73	43.50	14.77	QP

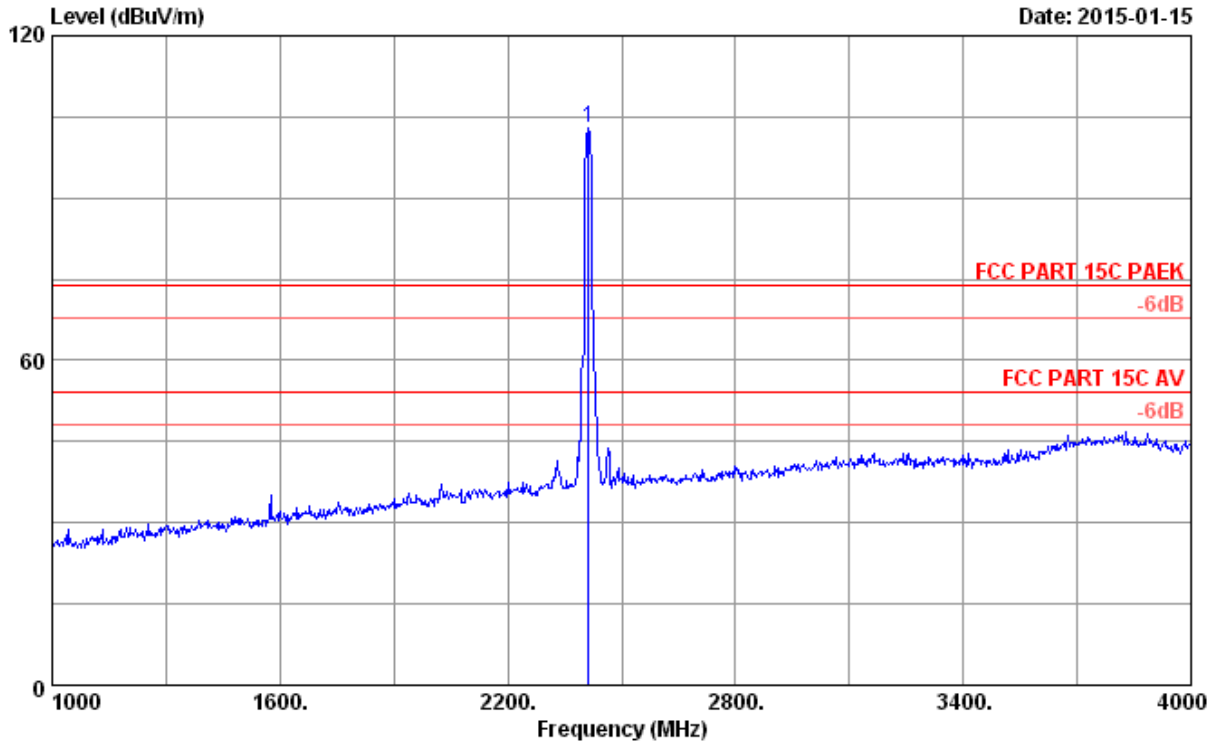
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Frequency: 1GHz~18GHz

Data: 5

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

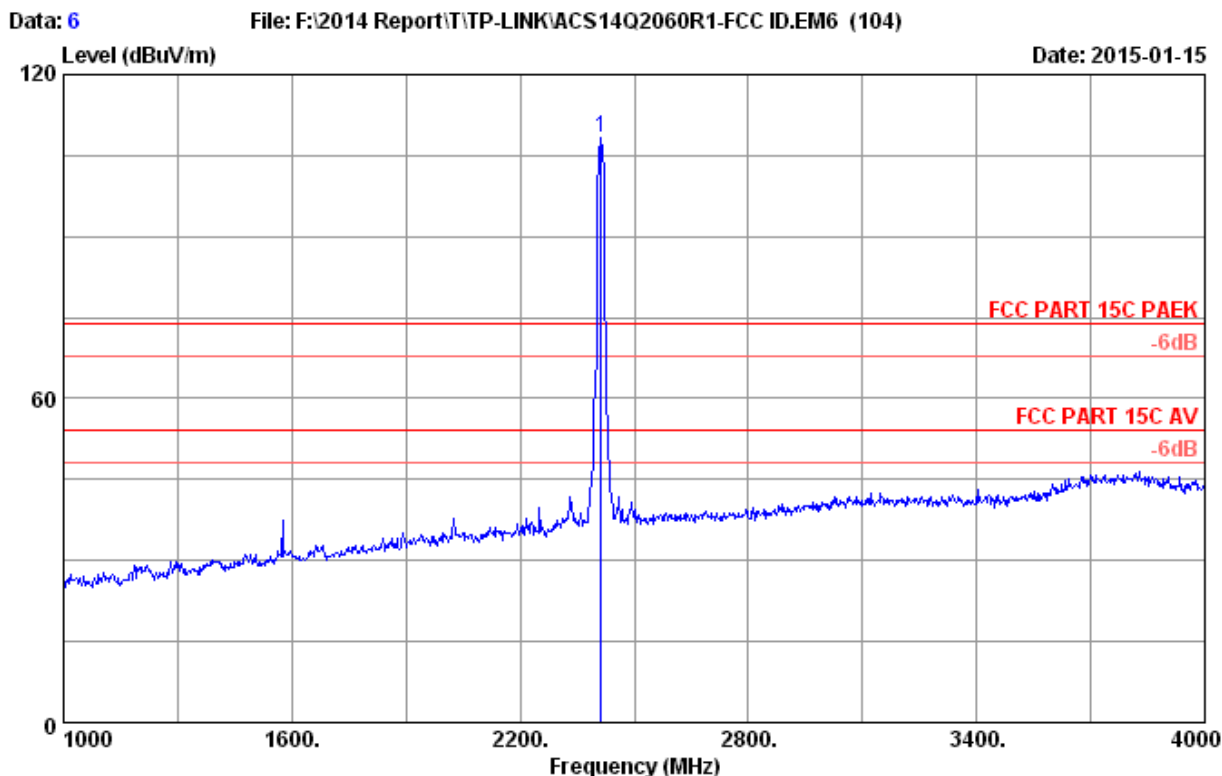
Date: 2015-01-15



Site no. : 3m Chamber Data no. : 5
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11b 2412 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.000	28.21	5.81	35.70	104.59	102.91	74.00	-28.91	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 6
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11b 2412 MHz Tx Mode
 M/N : CPE220

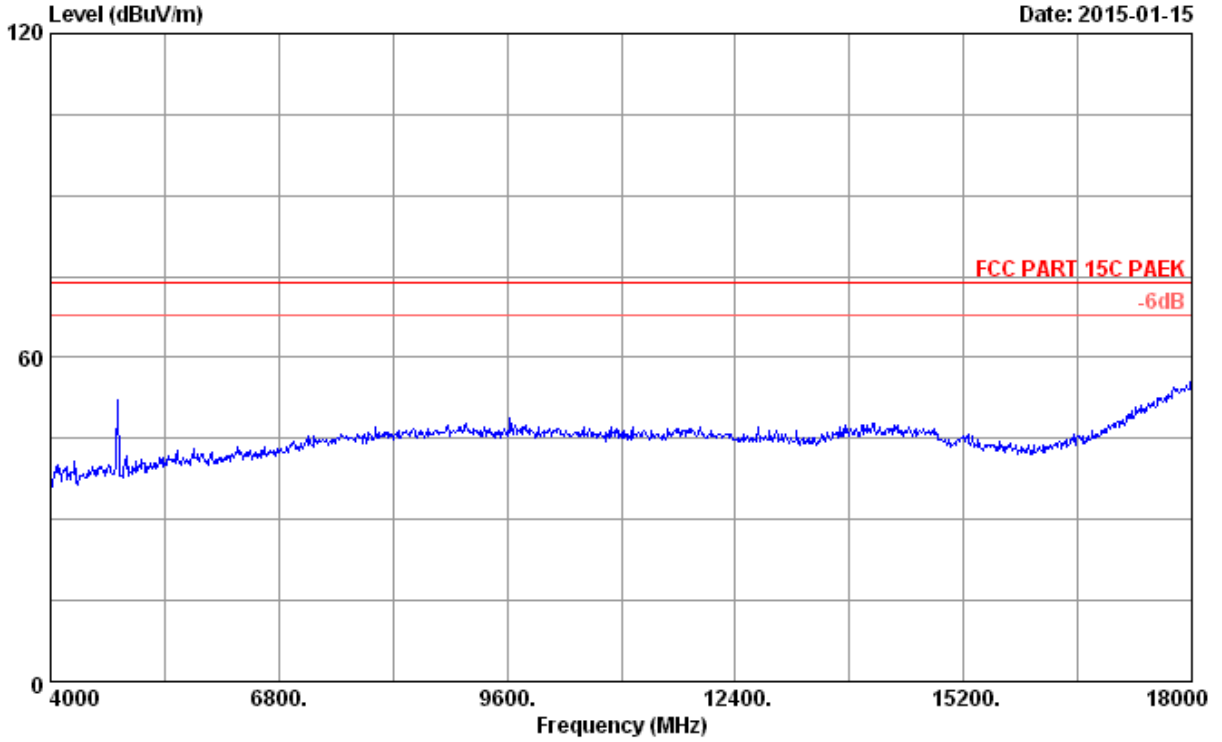
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.000	28.21	5.81	35.70	109.88	108.20	74.00	-34.20	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

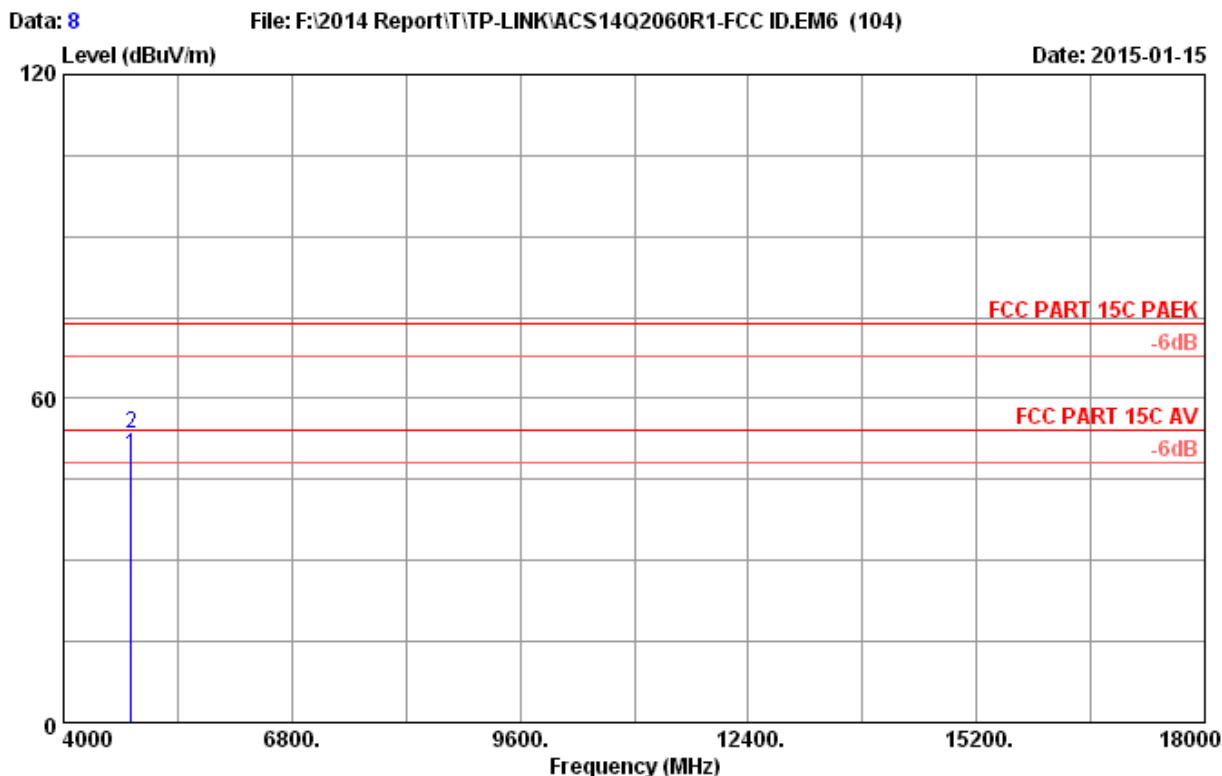
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File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-15



Site no. : 3m Chamber Data no. : 7
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PAEK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11b 2412 MHz Tx Mode
M/N : CPE220



Site no. : 3m Chamber Data no. : 8
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11b 2412 MHz Tx Mode
 M/N : CPE220

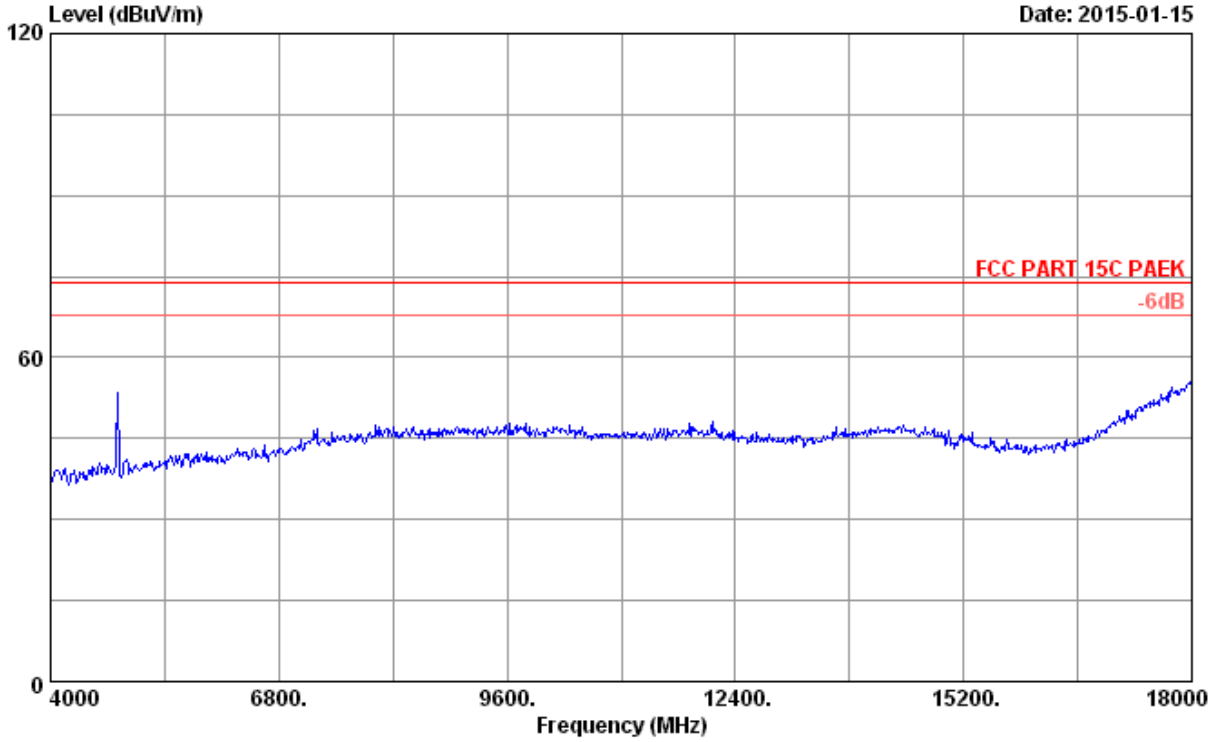
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.000	32.88	8.58	35.70	43.79	49.55	54.00	4.45	Average
2	4824.000	32.88	8.58	35.70	47.60	53.36	74.00	20.64	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 9

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-15



Site no. : 3m Chamber Data no. : 9
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PAEK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11b 2412 MHz Tx Mode
M/N : CPE220



Site no. : 3m Chamber Data no. : 10
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11b 2412 MHz Tx Mode
 M/N : CPE220

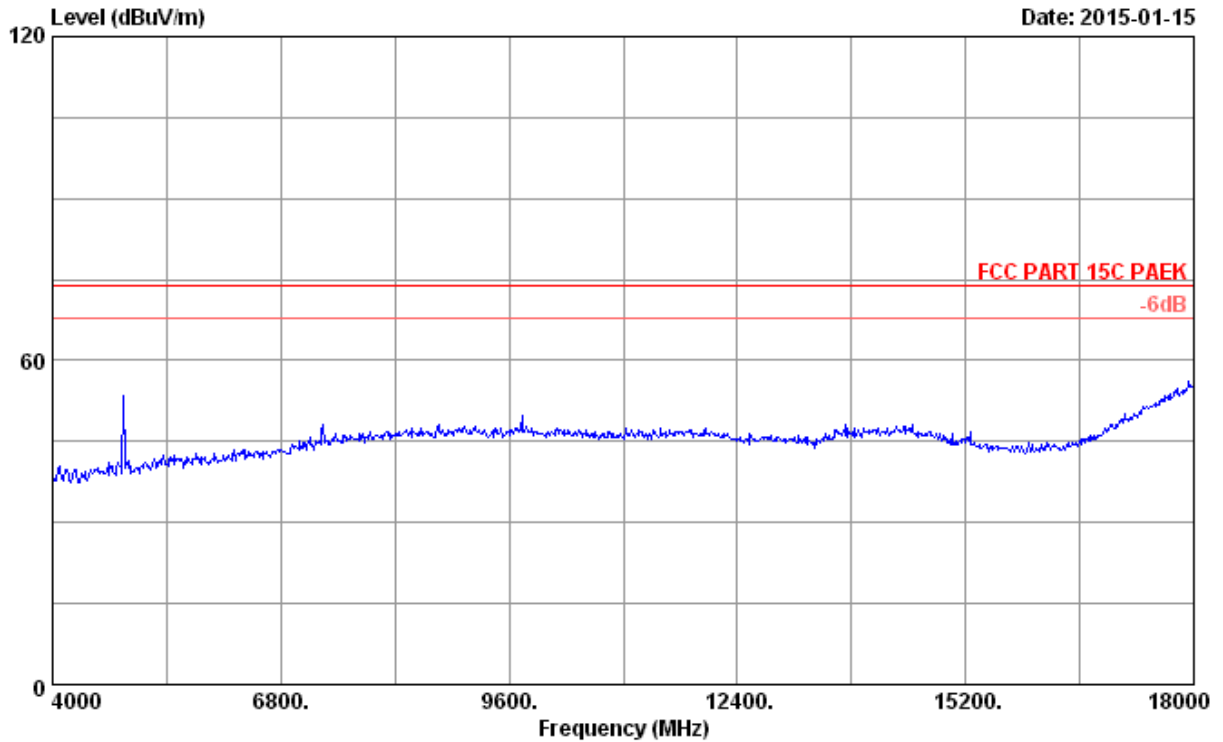
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.000	32.88	8.58	35.70	47.44	53.20	54.00	0.80	Average
2	4824.000	32.88	8.58	35.70	49.67	55.43	74.00	18.57	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 11

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-15



Site no. : 3m Chamber Data no. : 11
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PAEK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11b 2437 MHz Tx Mode
M/N : CPE220



Site no. : 3m Chamber Data no. : 12
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11b 2437 MHz Tx Mode
 M/N : CPE220

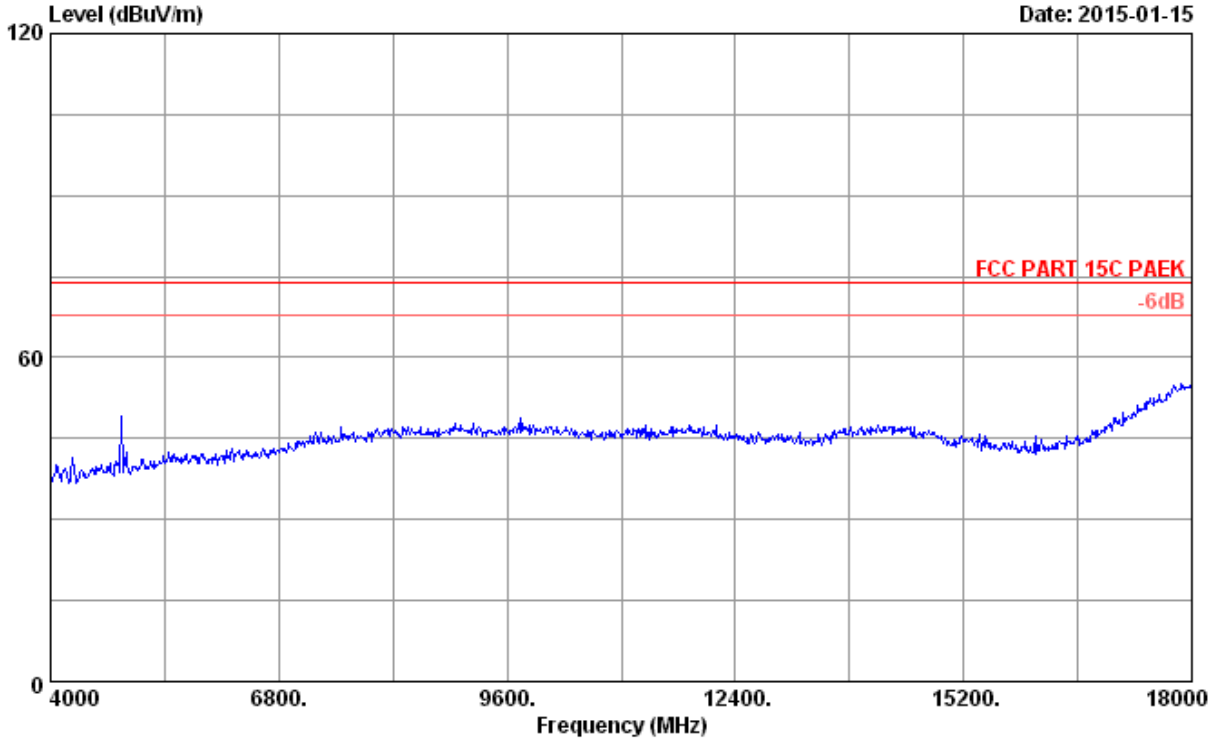
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	32.97	8.63	35.70	46.36	52.26	54.00	1.74	Average
2	4874.000	32.97	8.63	35.70	50.38	56.28	74.00	17.72	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 13

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-15



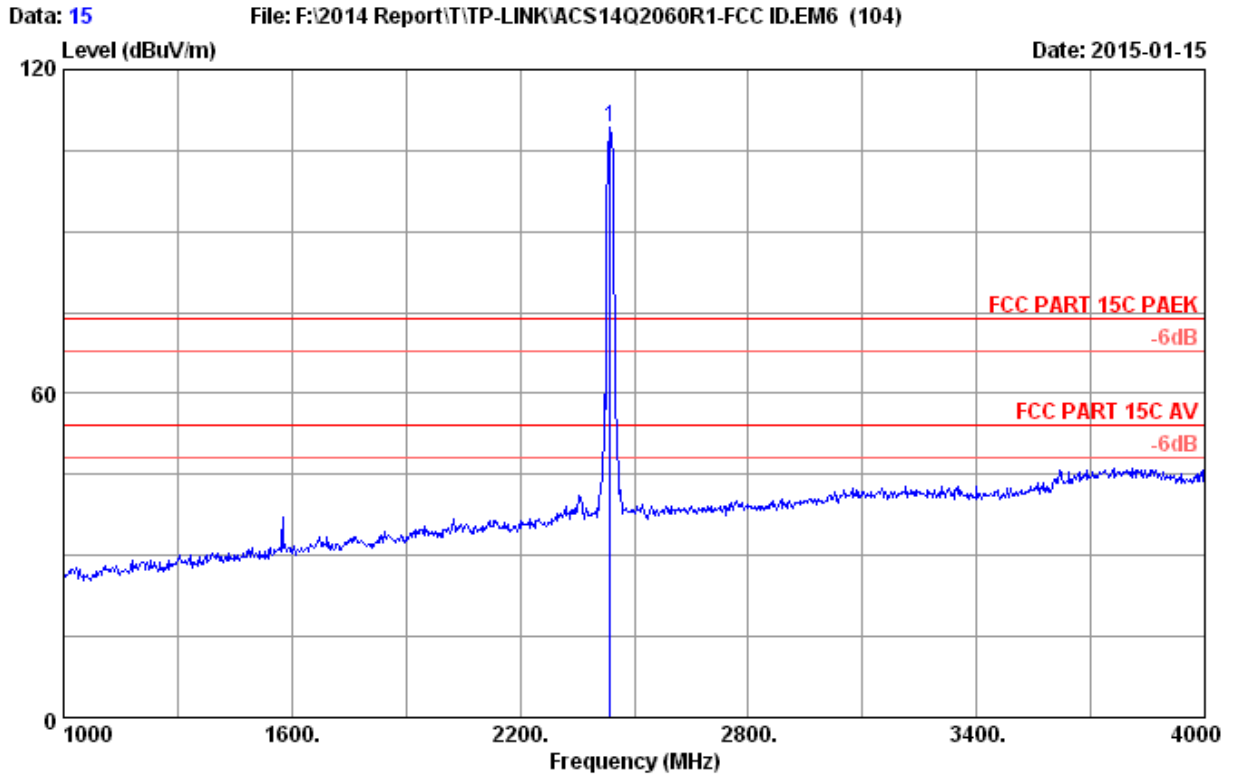
Site no. : 3m Chamber Data no. : 13
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PAEK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11b 2437 MHz Tx Mode
M/N : CPE220



Site no. : 3m Chamber Data no. : 14
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11b 2437 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	32.97	8.63	35.70	43.77	49.67	54.00	4.33	Average
2	4874.000	32.97	8.63	35.70	46.64	52.54	74.00	21.46	Peak

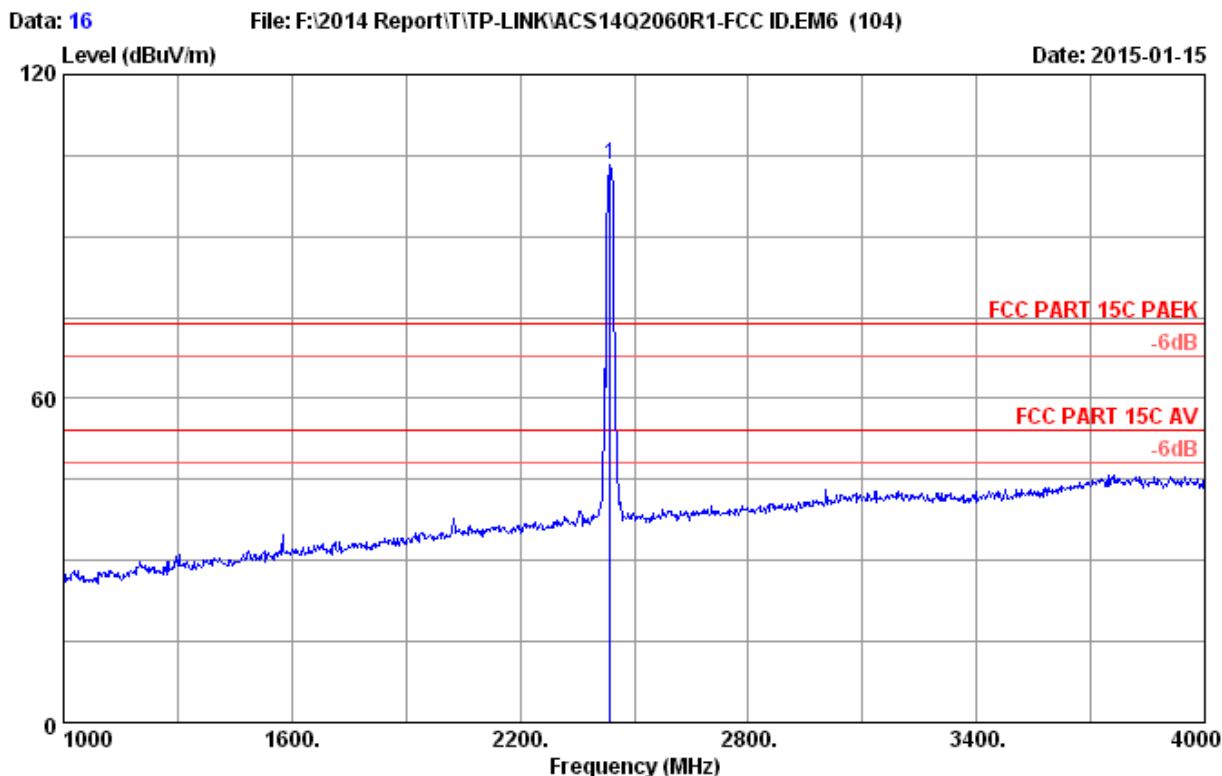
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 15
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11b 2437 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.000	28.26	5.85	35.70	110.88	109.29	74.00	-35.29	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 16
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11b 2437 MHz Tx Mode
 M/N : CPE220

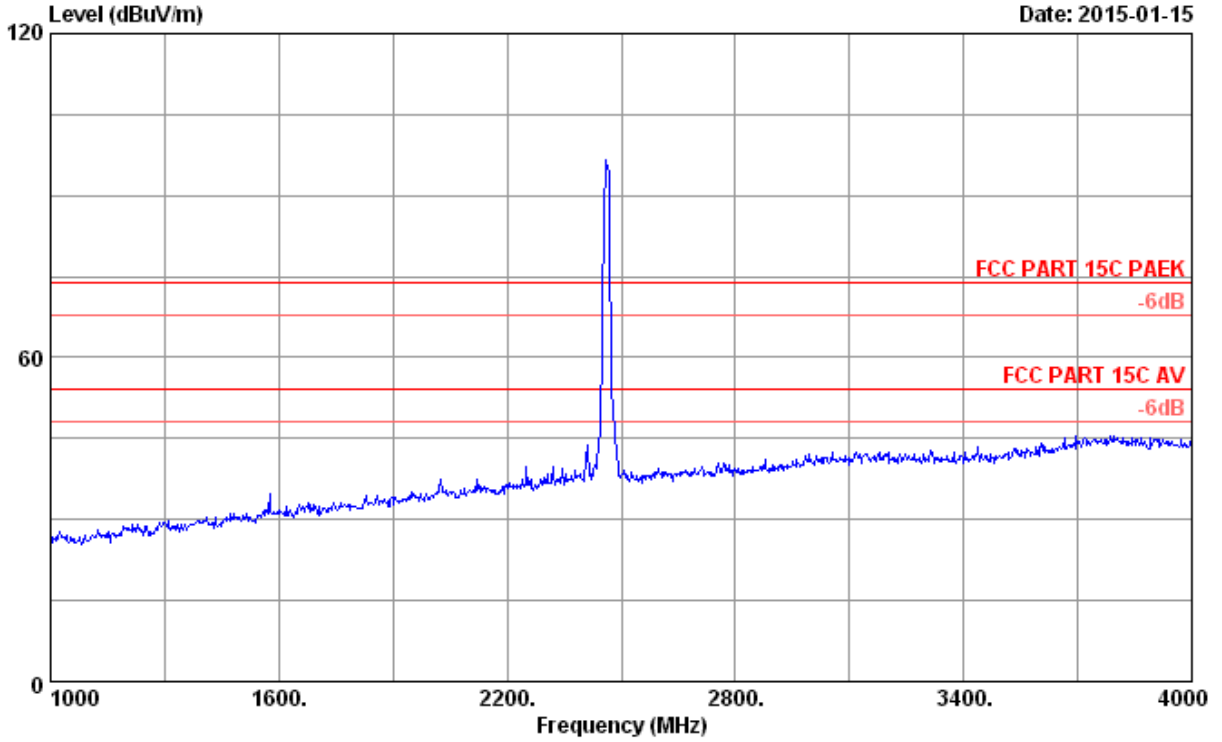
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.000	28.26	5.85	35.70	104.97	103.38	74.00	-29.38	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 17

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-15

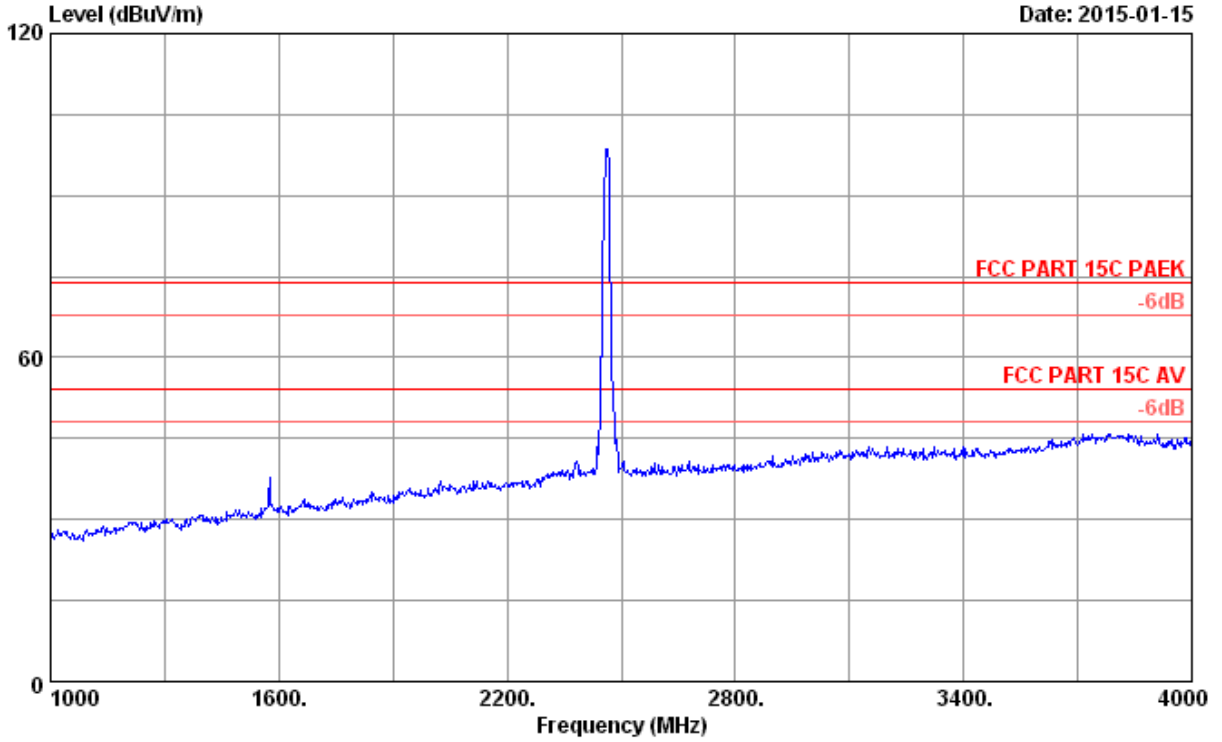


Site no. : 3m Chamber Data no. : 17
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PAEK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11b 2462 MHz Tx Mode
M/N : CPE220

Data: 18

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-15

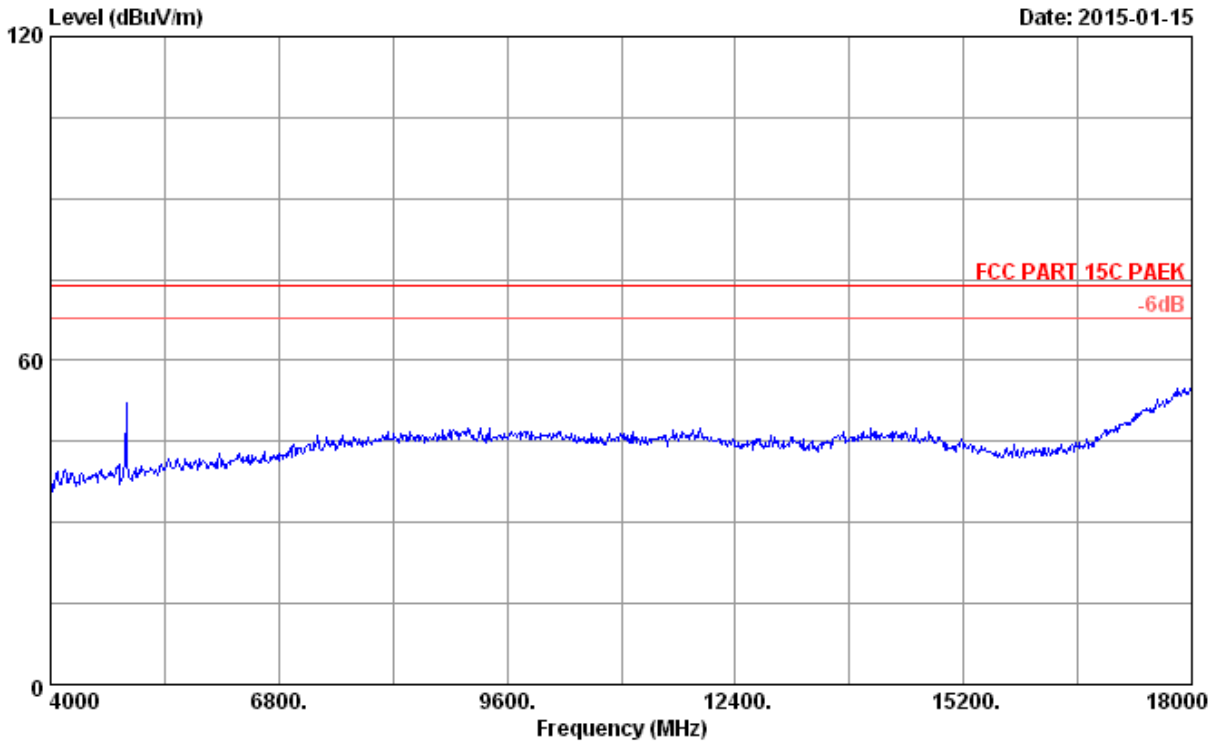


Site no. : 3m Chamber Data no. : 18
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PAEK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11b 2462 MHz Tx Mode
M/N : CPE220

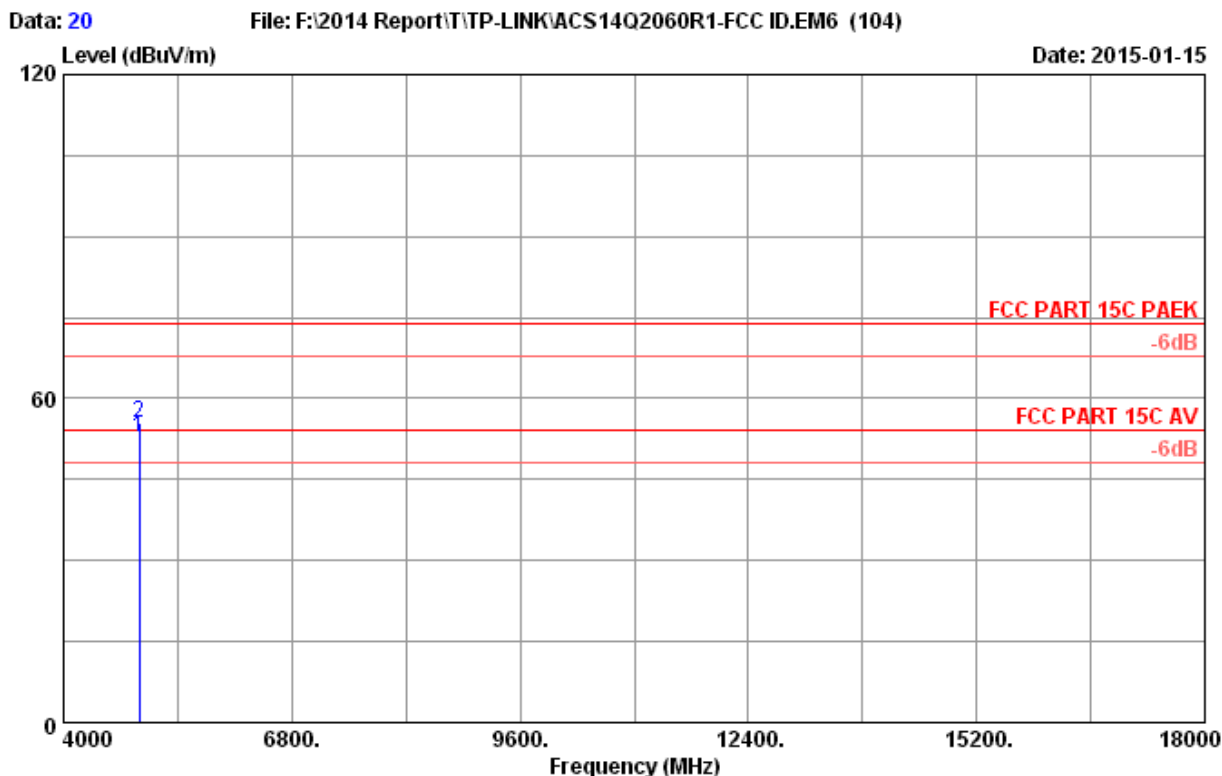
Data: 19

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-15



Site no. : 3m Chamber Data no. : 19
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PAEK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11b 2462 MHz Tx Mode
M/N : CPE220



Site no. : 3m Chamber Data no. : 20
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11b 2462 MHz Tx Mode
 M/N : CPE220

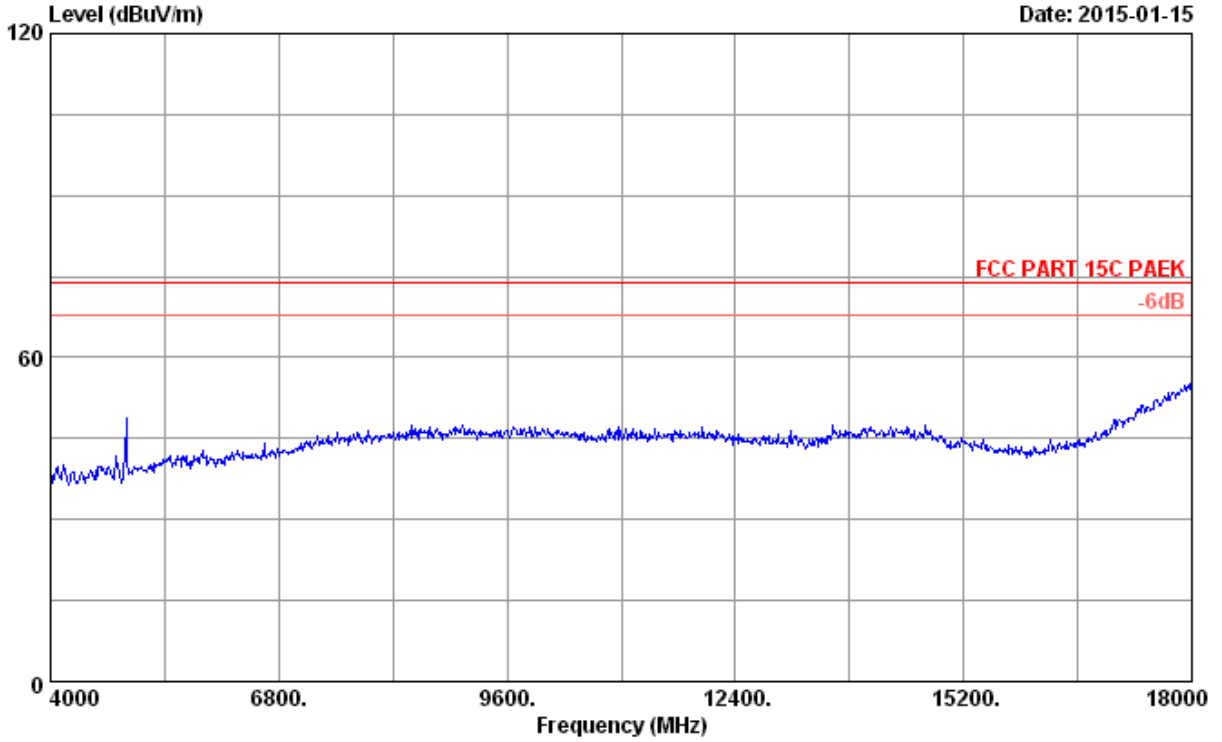
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.000	33.06	8.69	35.70	46.77	52.82	54.00	1.18	Average
2	4924.000	33.06	8.69	35.70	49.45	55.50	74.00	18.50	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 21

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-15



Site no. : 3m Chamber Data no. : 21
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PAEK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11b 2462 MHz Tx Mode
M/N : CPE220



Site no. : 3m Chamber Data no. : 22
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11b 2462 MHz Tx Mode
 M/N : CPE220

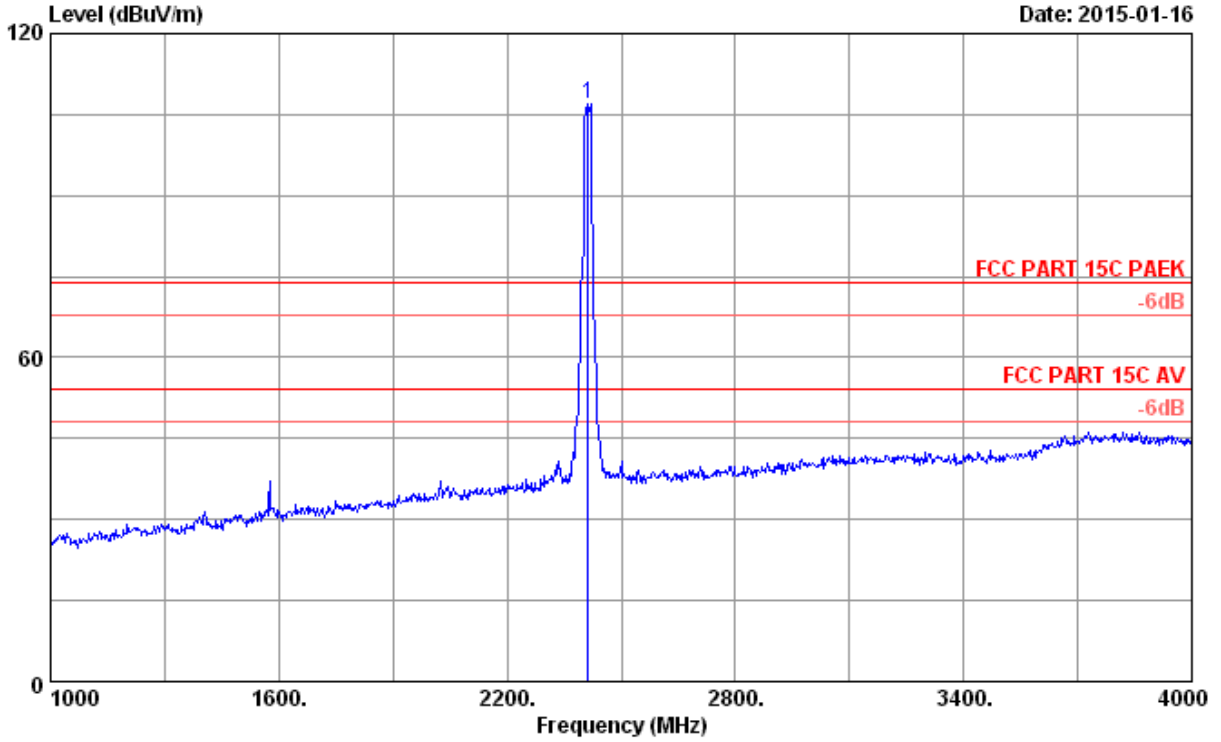
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.000	33.06	8.69	35.70	42.63	48.68	54.00	5.32	Average
2	4924.000	33.06	8.69	35.70	45.85	51.90	74.00	22.10	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 31

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-16



Site no. : 3m Chamber Data no. : 31
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11g 2412 MHz Tx Mode
 M/N : CPE220

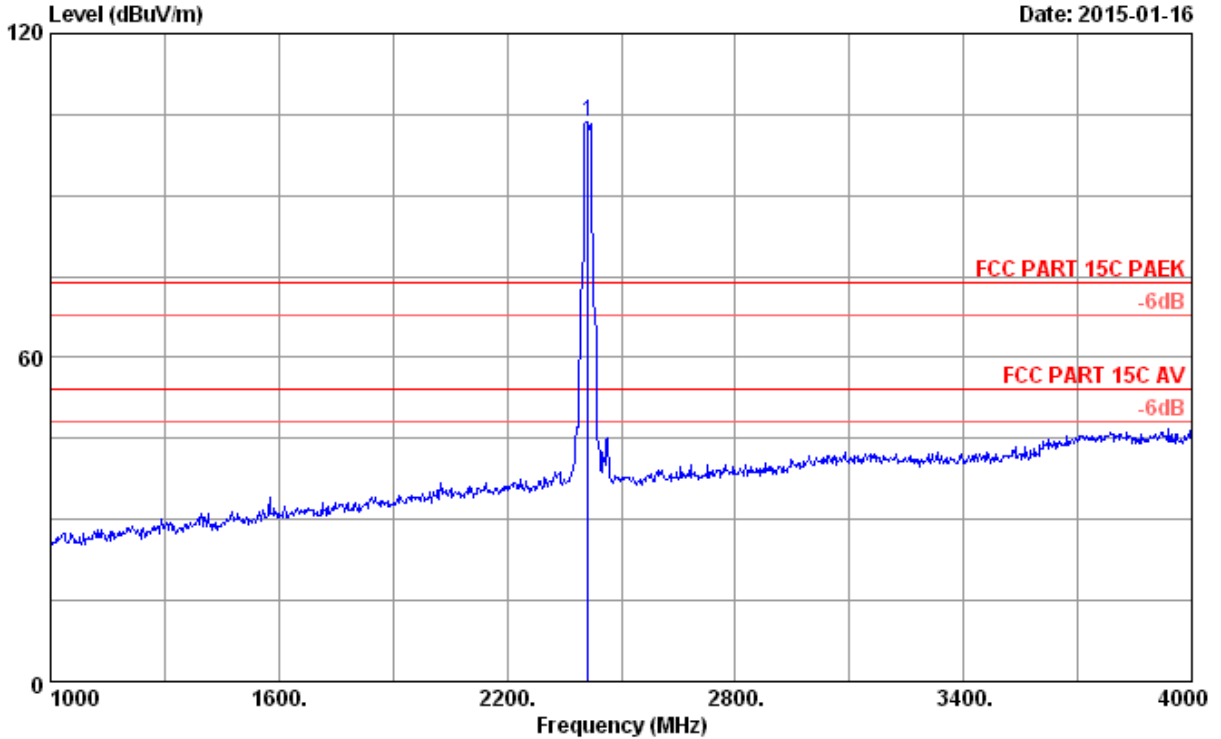
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.000	28.21	5.81	35.70	108.54	106.86	74.00	-32.86	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 32

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-16



Site no. : 3m Chamber Data no. : 32
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11g 2412 MHz Tx Mode
 M/N : CPE220

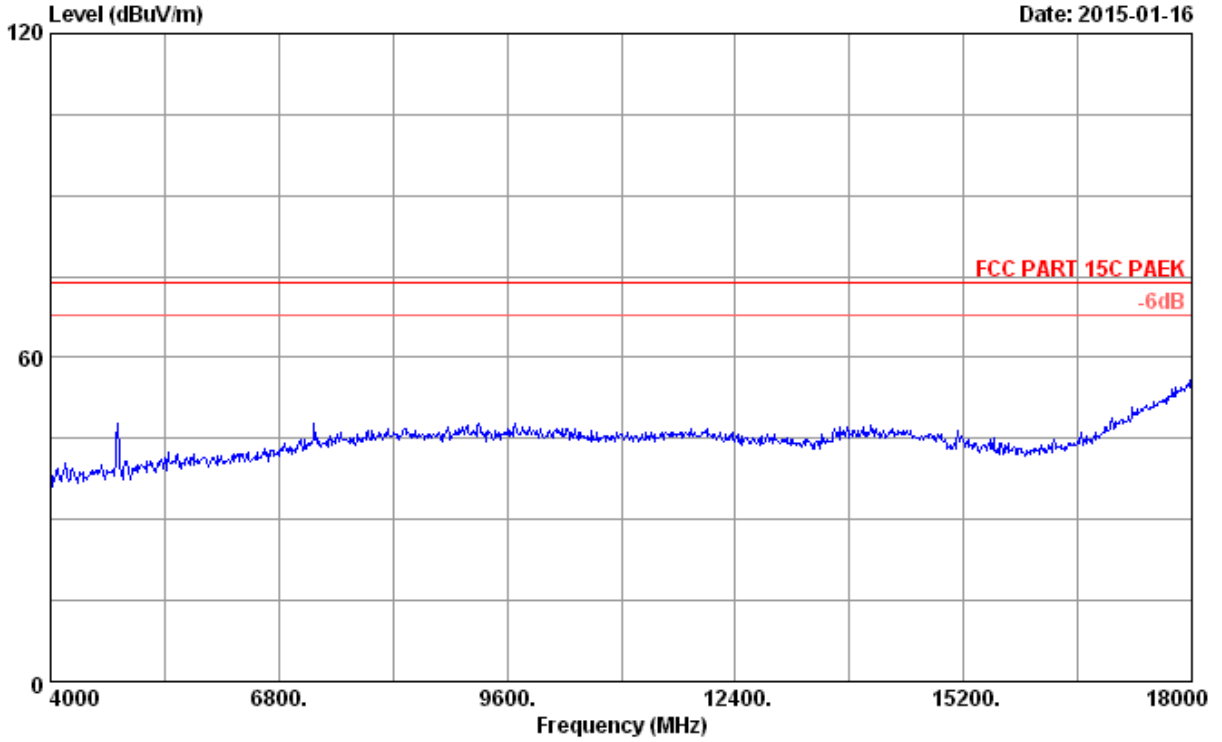
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.000	28.21	5.81	35.70	105.27	103.59	74.00	-29.59	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 33

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-16



Site no. : 3m Chamber Data no. : 33
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PAEK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11g 2412 MHz Tx Mode
M/N : CPE220



Site no. : 3m Chamber Data no. : 34
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11g 2412 MHz Tx Mode
 M/N : CPE220

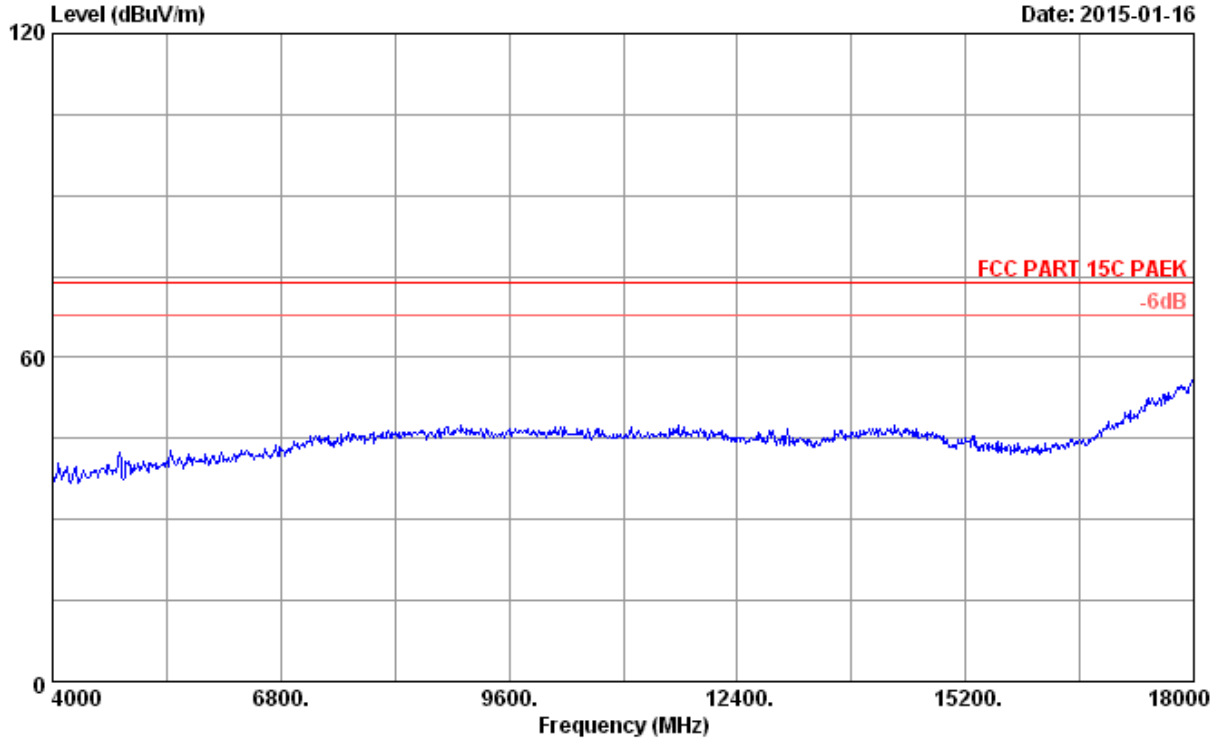
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.000	32.88	8.58	35.70	41.25	47.01	54.00	6.99	Average
2	4824.000	32.88	8.58	35.70	44.73	50.49	74.00	23.51	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 35

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-16



Site no. : 3m Chamber Data no. : 35
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PAEK
Env. / Ins. : 23*C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11g 2412 MHz Tx Mode
M/N : CPE220



Site no. : 3m Chamber Data no. : 36
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11g 2412 MHz Tx Mode
 M/N : CPE220

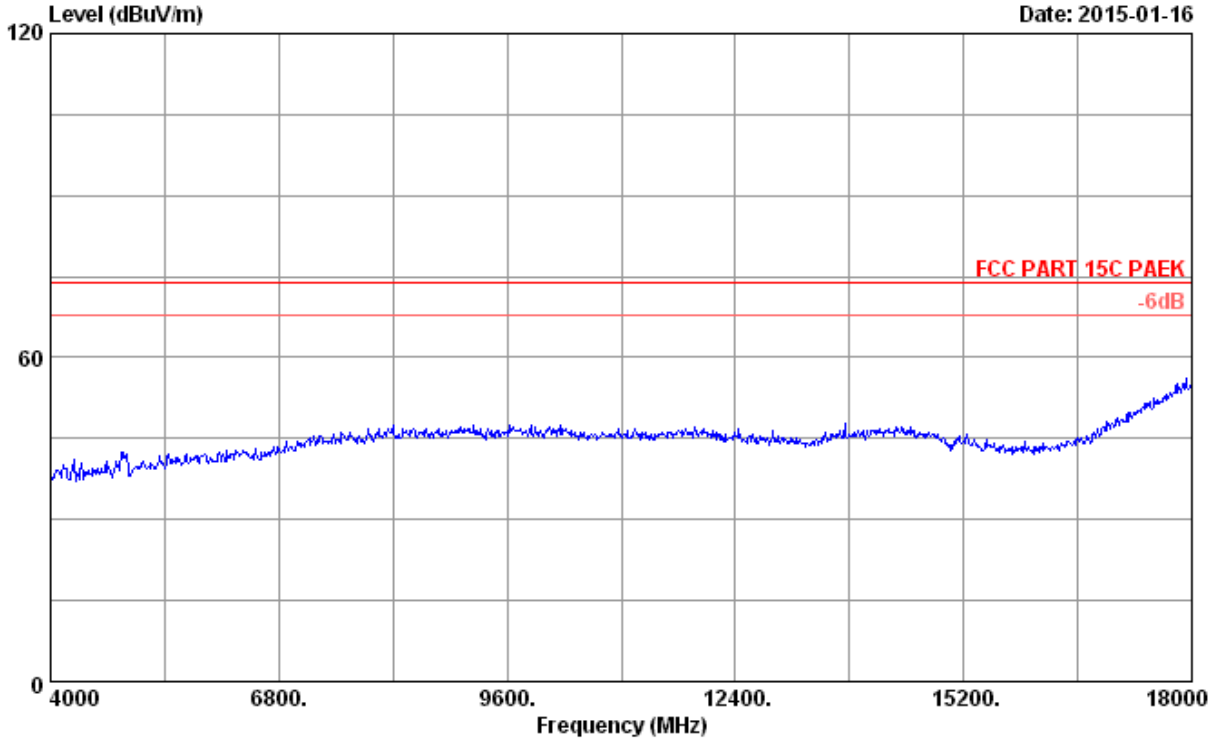
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.000	32.88	8.58	35.70	37.25	43.01	54.00	10.99	Average
2	4824.000	32.88	8.58	35.70	42.16	47.92	74.00	26.08	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

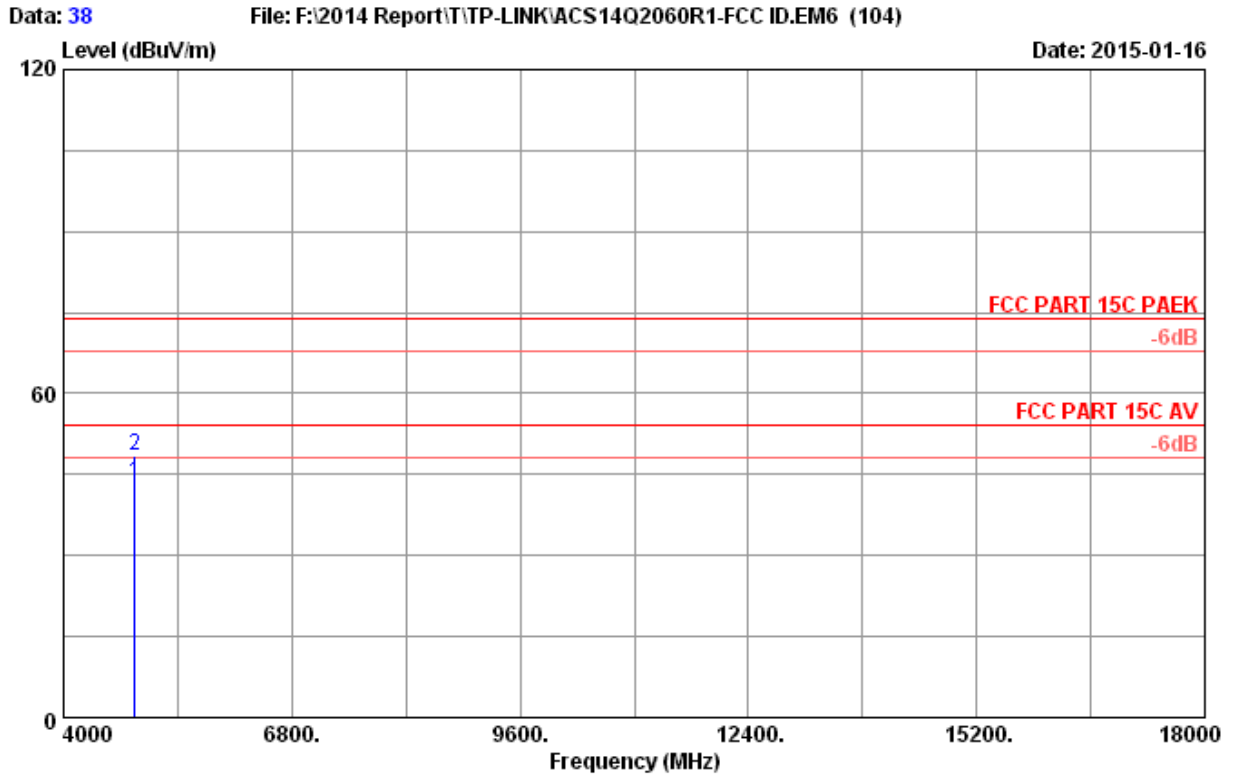
Data: 37

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-16



Site no. : 3m Chamber Data no. : 37
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PAEK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11g 2437 MHz Tx Mode
M/N : CPE220



Site no. : 3m Chamber Data no. : 38
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11g 2437 MHz Tx Mode
 M/N : CPE220

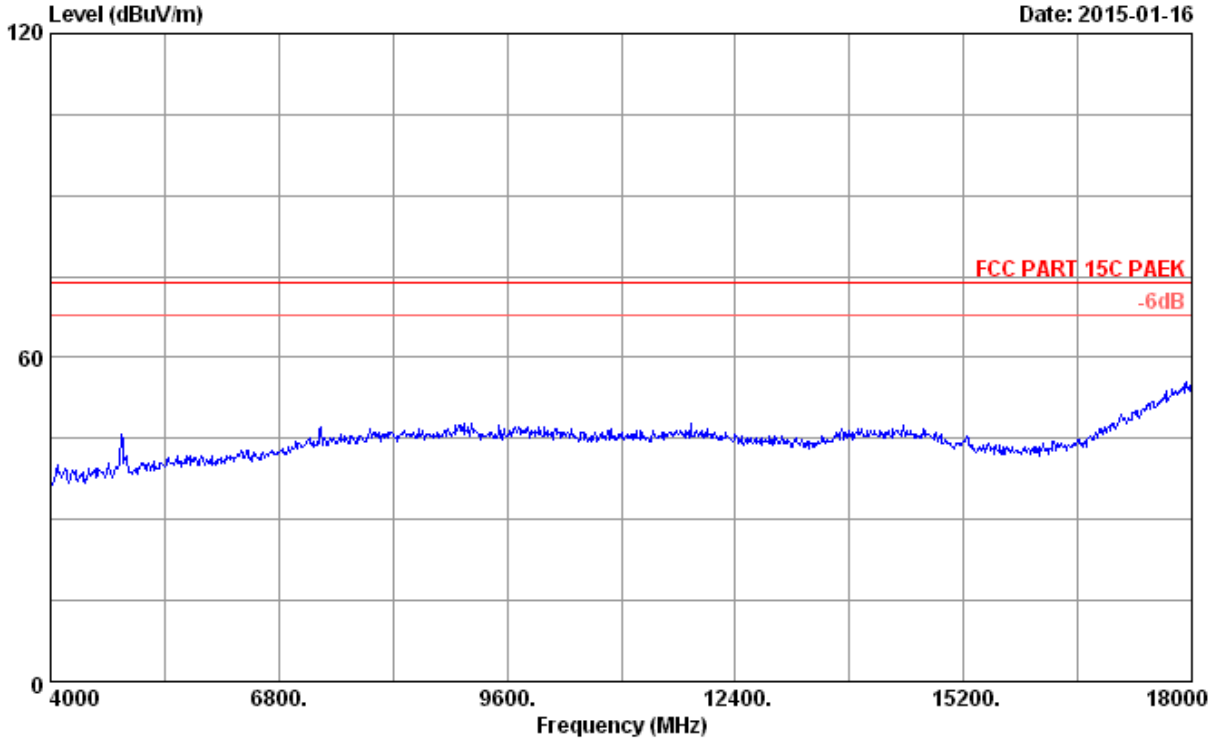
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	32.97	8.63	35.70	37.63	43.53	54.00	10.47	Average
2	4874.000	32.97	8.63	35.70	42.68	48.58	74.00	25.42	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

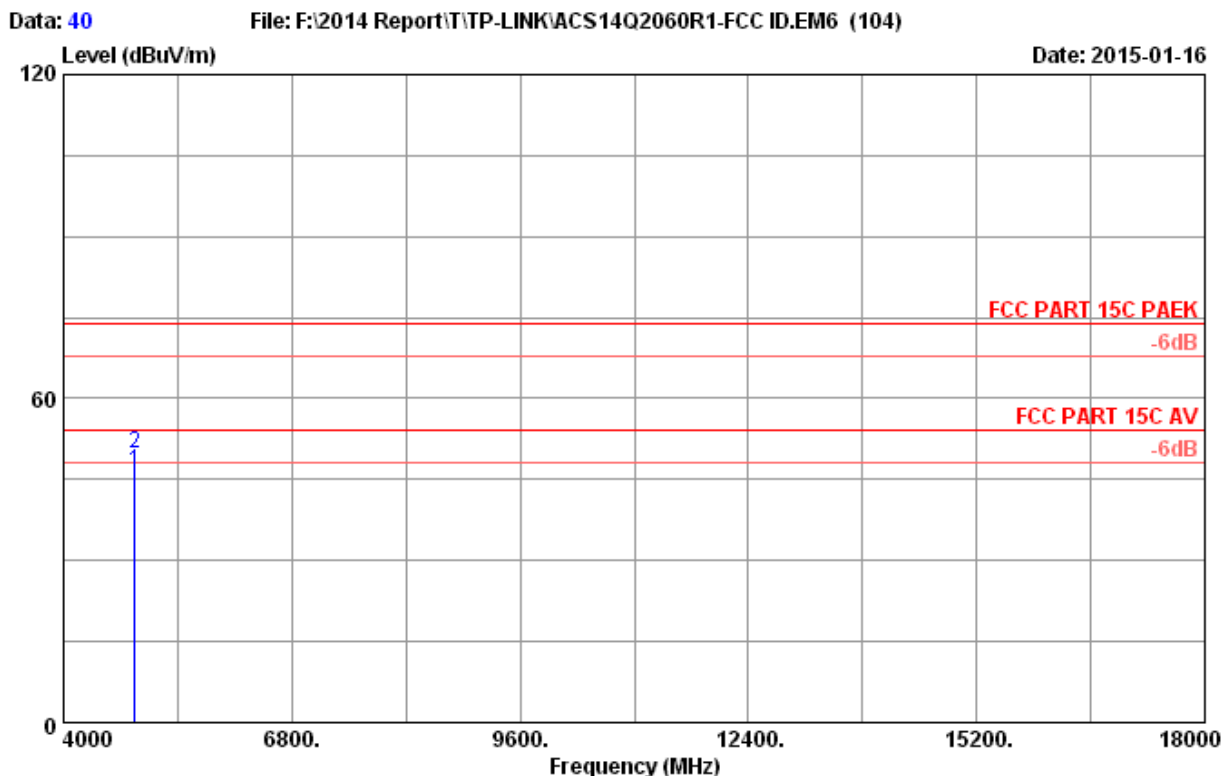
Data: 39

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-16



Site no. : 3m Chamber Data no. : 39
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PAEK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11g 2437 MHz Tx Mode
M/N : CPE220



Site no. : 3m Chamber Data no. : 40
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11g 2437 MHz Tx Mode
 M/N : CPE220

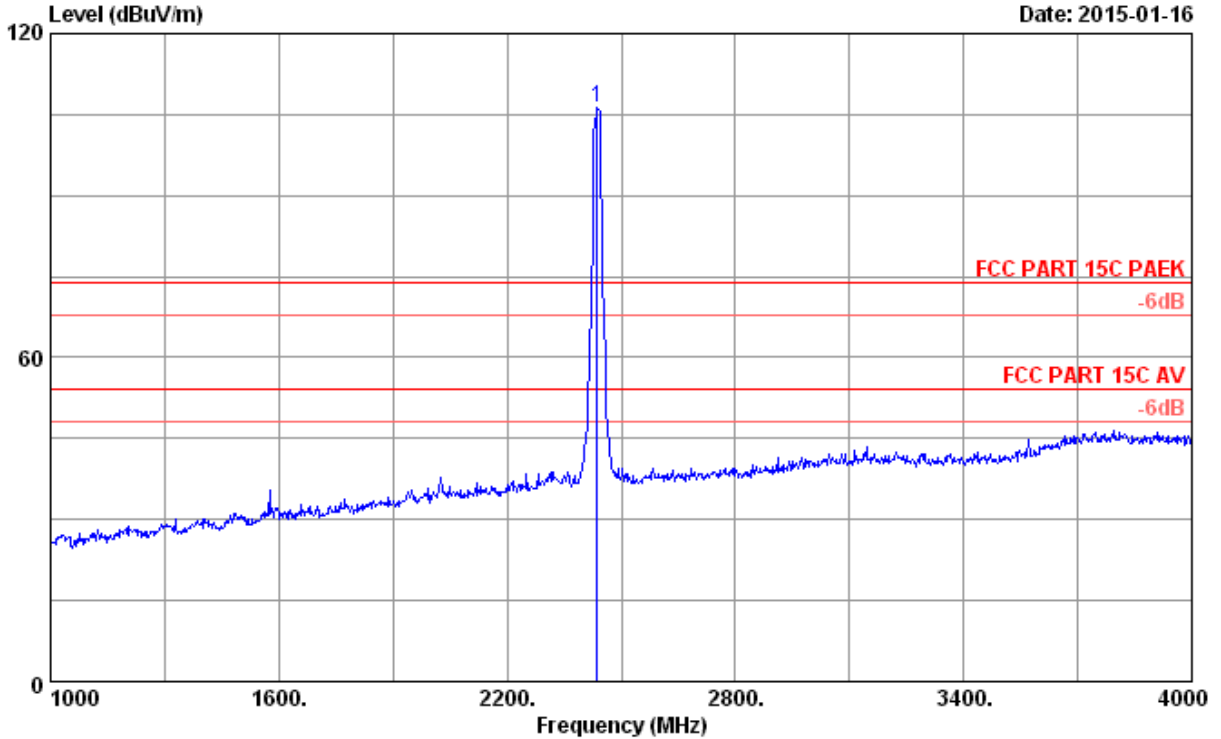
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	32.97	8.63	35.70	40.58	46.48	54.00	7.52	Average
2	4874.000	32.97	8.63	35.70	44.07	49.97	74.00	24.03	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 41

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-16



Site no. : 3m Chamber Data no. : 41
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11g 2437 MHz Tx Mode
 M/N : CPE220

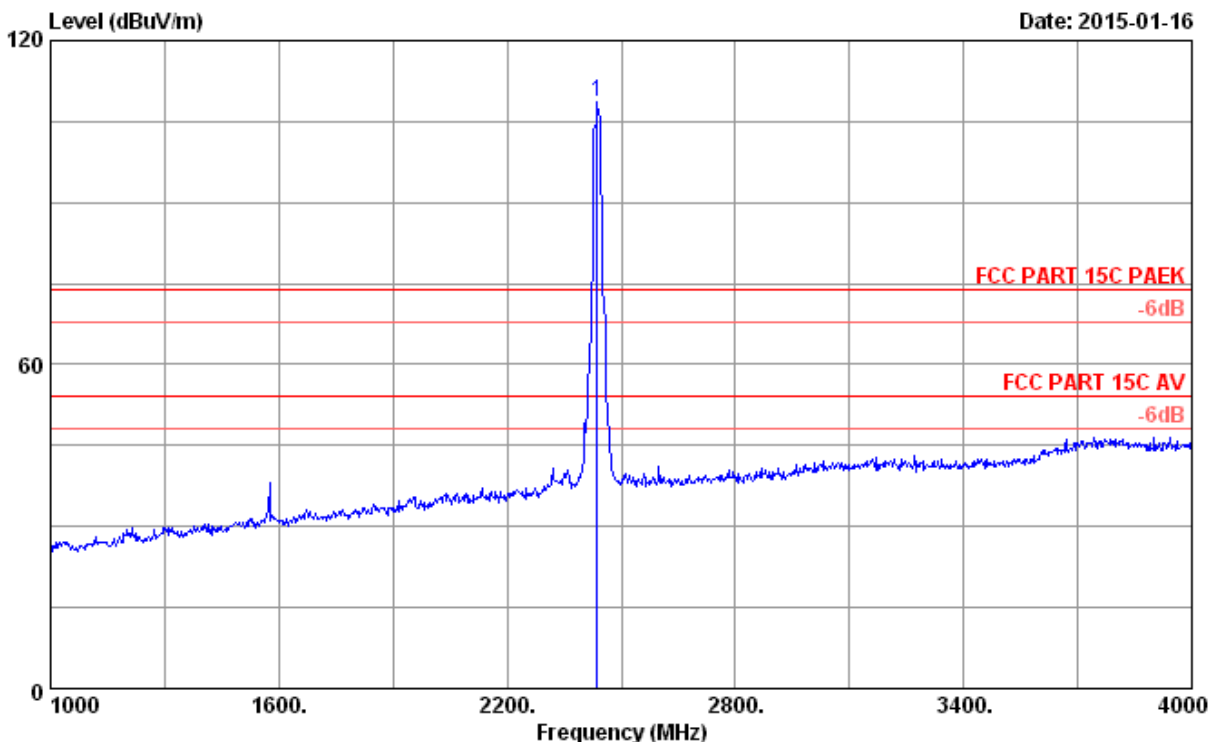
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.000	28.26	5.85	35.70	107.95	106.36	74.00	-32.36	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 42

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

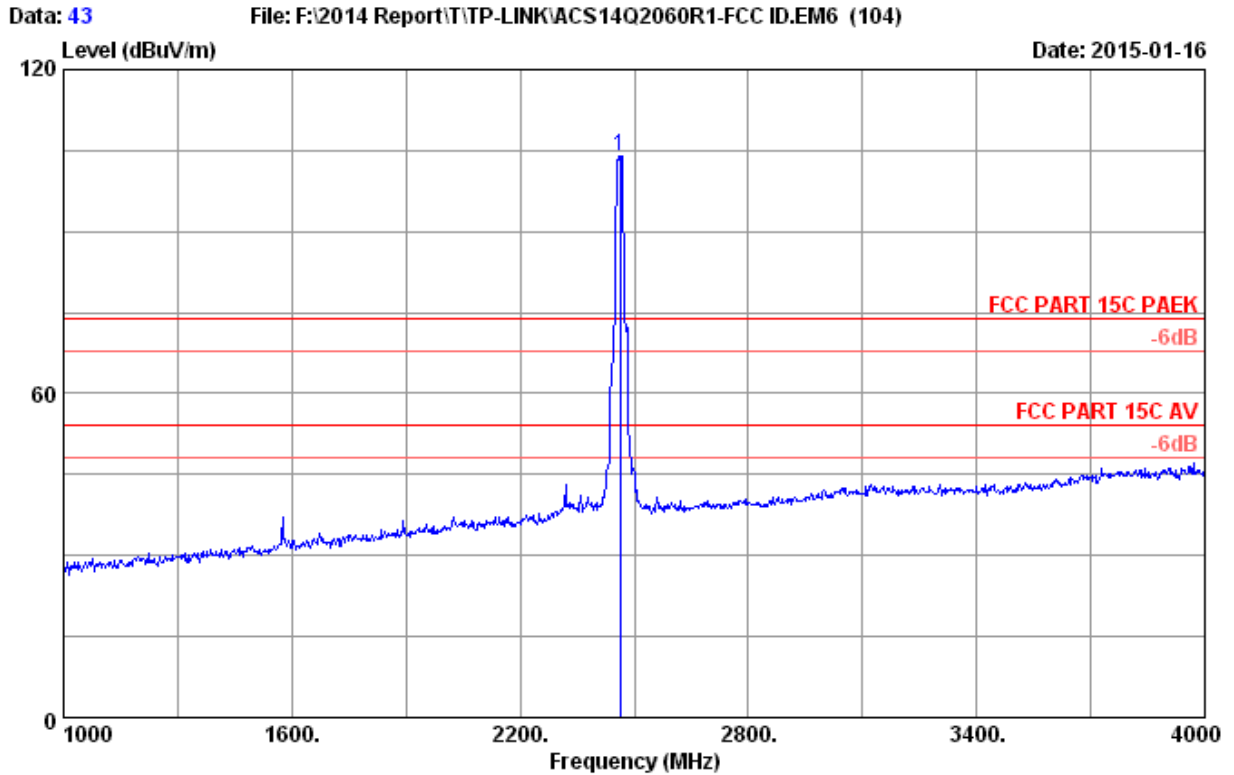
Date: 2015-01-16



Site no. : 3m Chamber Data no. : 42
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11g 2437 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.000	28.26	5.85	35.70	110.26	108.67	74.00	-34.67	Peak

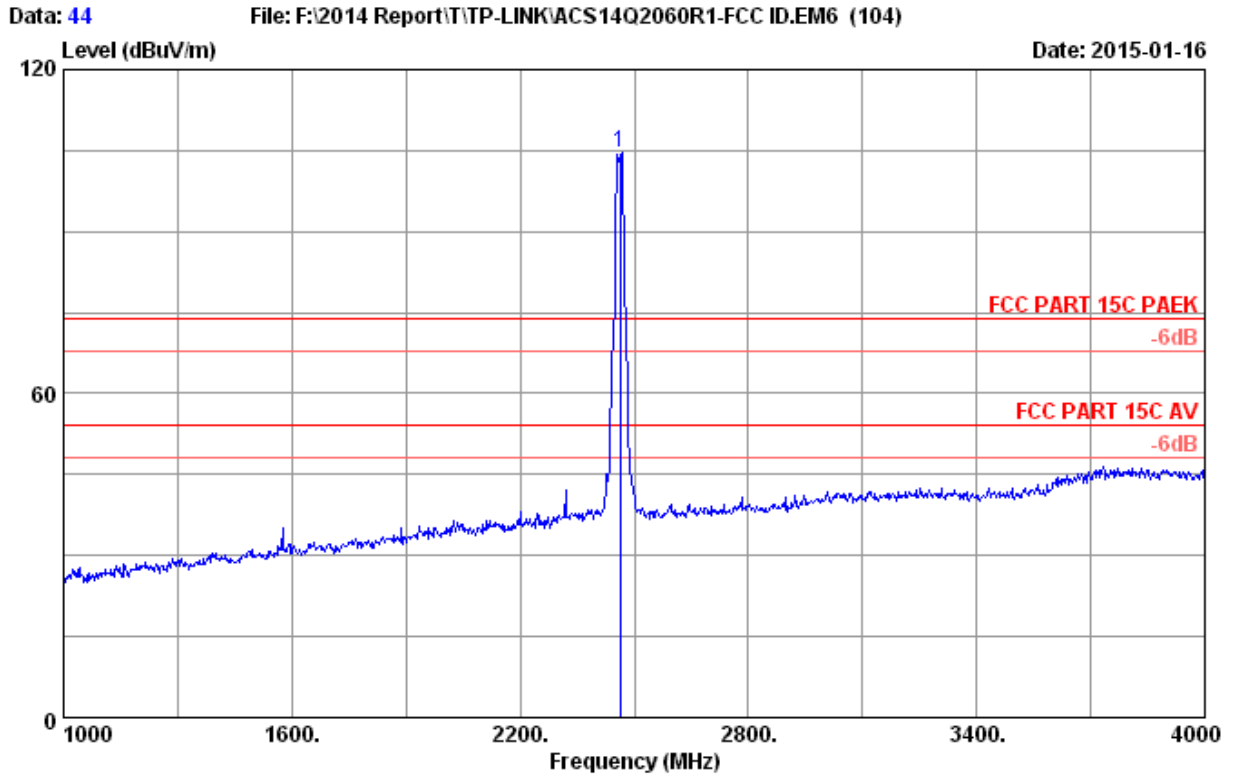
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 43
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11g 2462 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.000	28.32	5.89	35.70	105.51	104.02	74.00	-30.02	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 44
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11g 2462 MHz Tx Mode
 M/N : CPE220

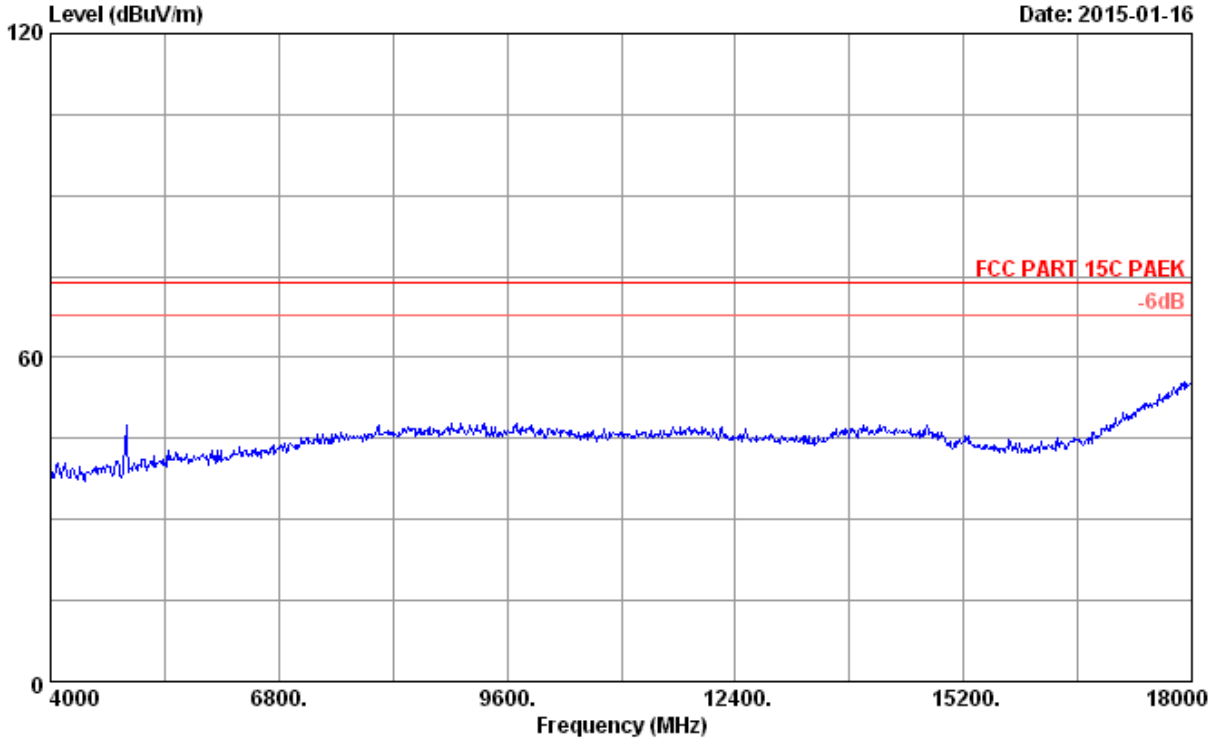
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.000	28.32	5.89	35.70	105.99	104.50	74.00	-30.50	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

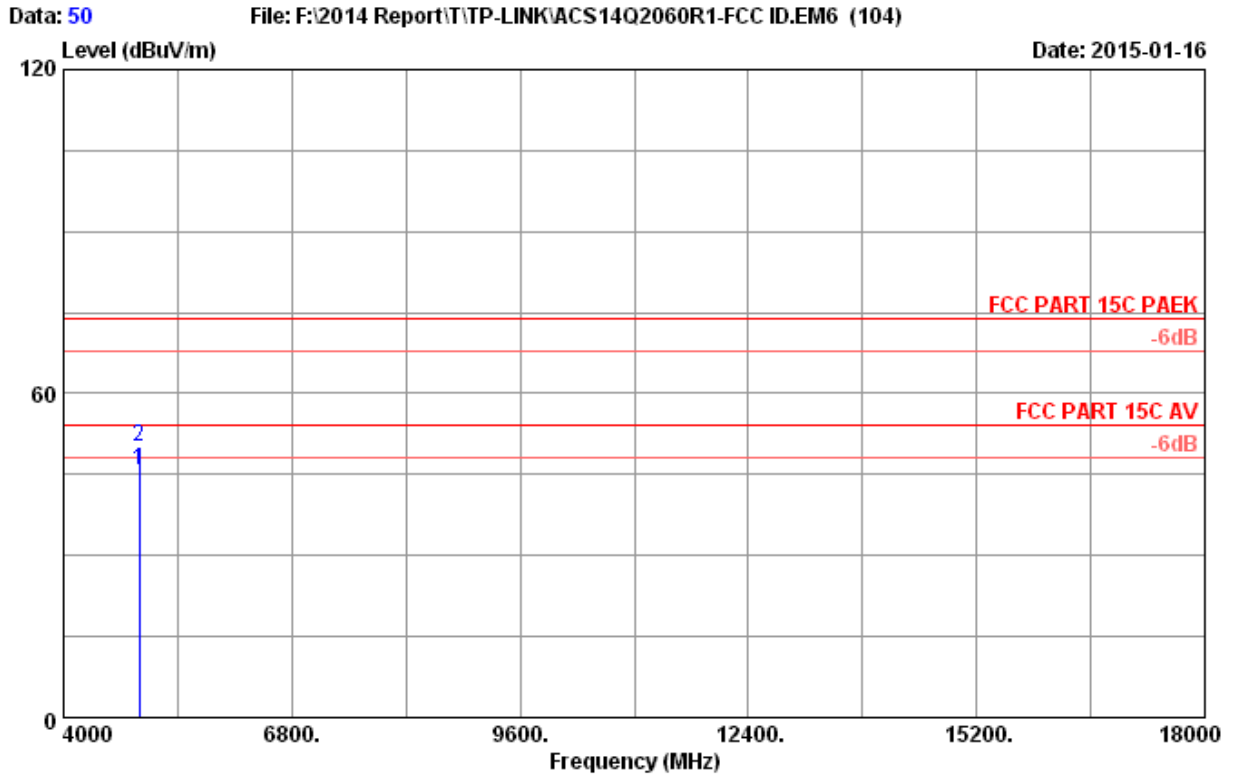
Data: 49

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-16



Site no. : 3m Chamber Data no. : 49
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PAEK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11g 2462 MHz Tx Mode
M/N : CPE220



Site no. : 3m Chamber Data no. : 50
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11g 2462 MHz Tx Mode
 M/N : CPE220

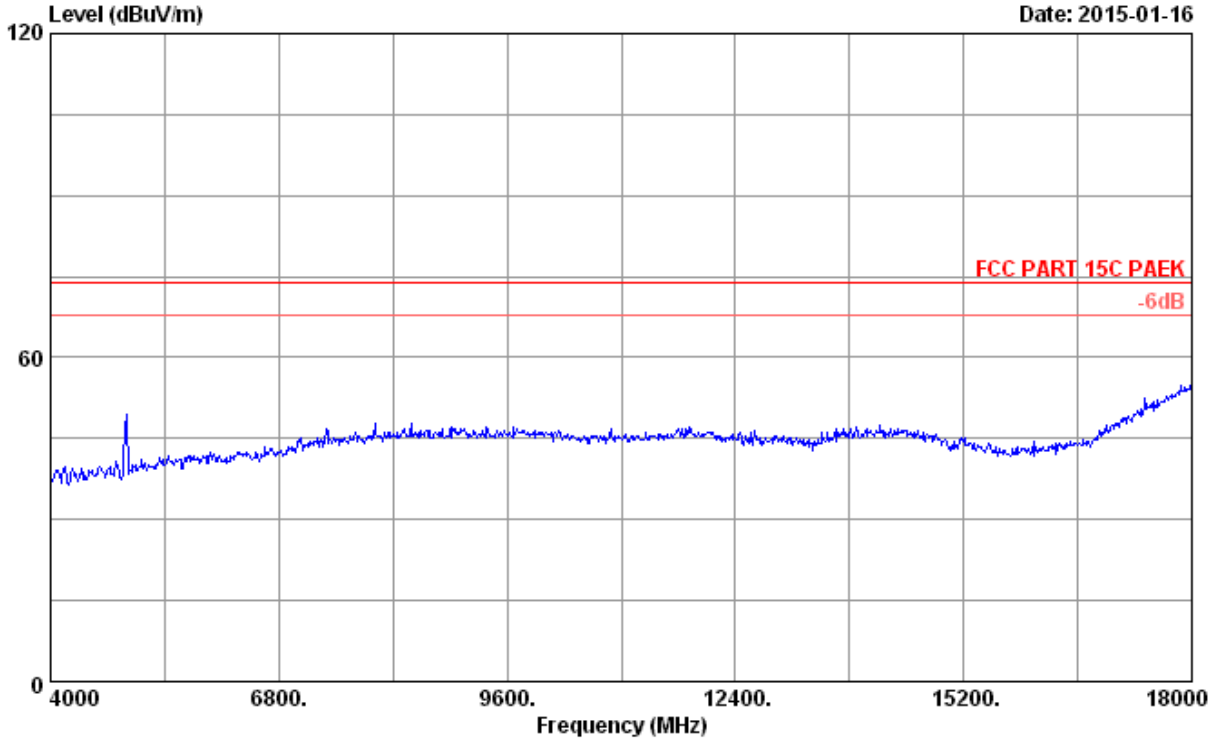
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.000	33.06	8.69	35.70	39.86	45.91	54.00	8.09	Average
2	4924.000	33.06	8.69	35.70	44.16	50.21	74.00	23.79	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

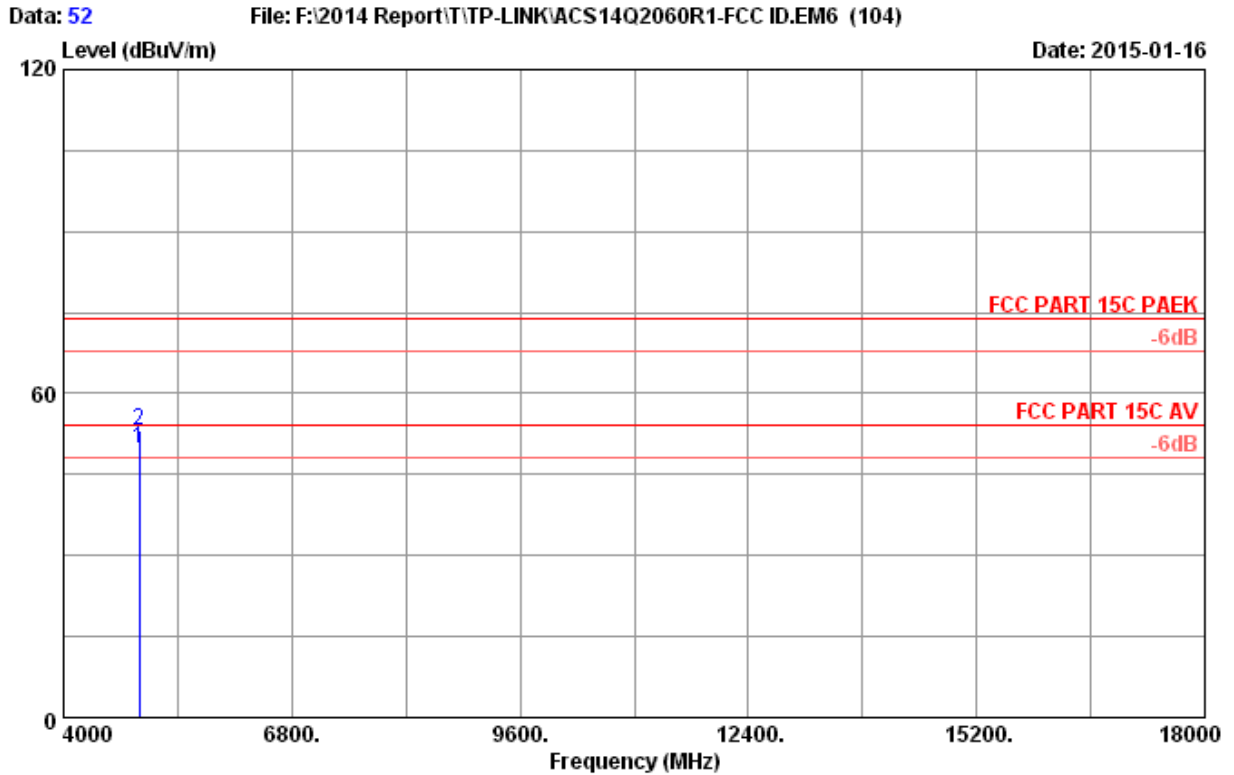
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File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-16



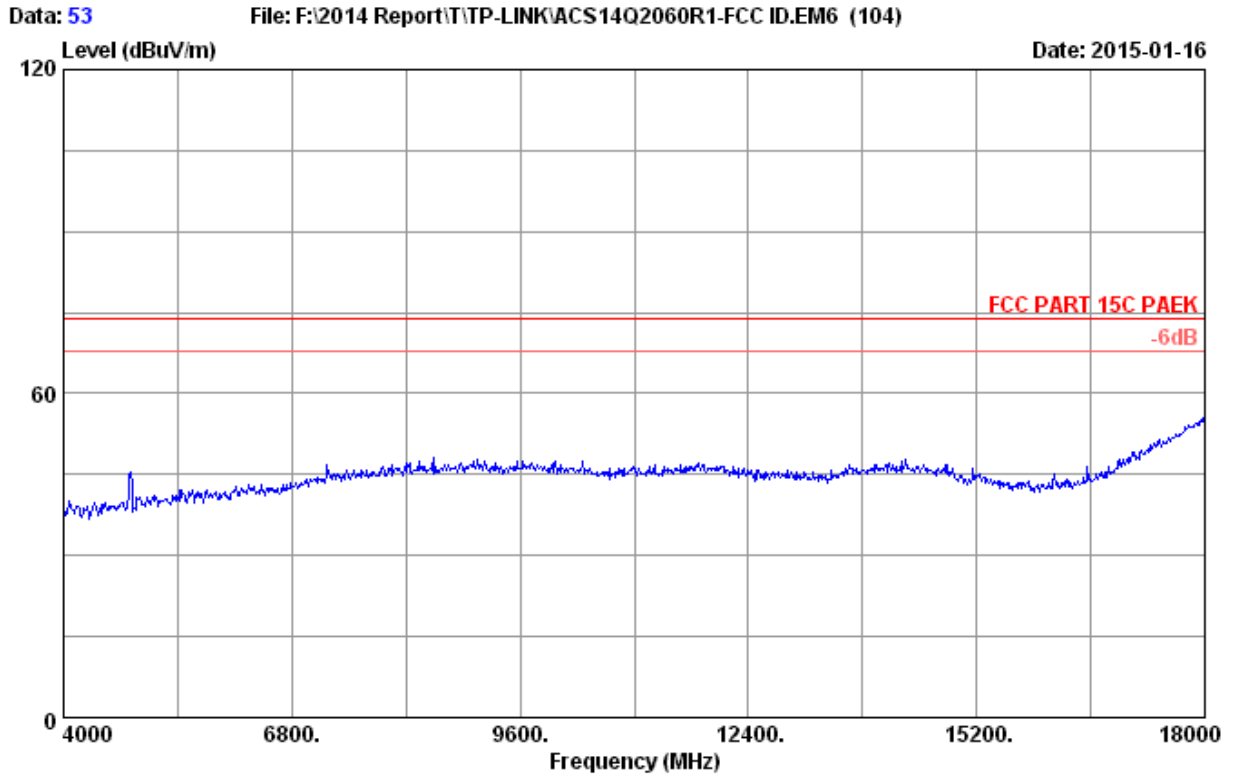
Site no. : 3m Chamber Data no. : 51
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PAEK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11g 2462 MHz Tx Mode
M/N : CPE220



Site no. : 3m Chamber Data no. : 52
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11g 2462 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.000	33.06	8.69	35.70	43.67	49.72	54.00	4.28	Average
2	4924.000	33.06	8.69	35.70	47.03	53.08	74.00	20.92	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 53
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PAEK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11nHT20 2412 MHz Tx Mode
M/N : CPE220



Site no. : 3m Chamber Data no. : 54
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2412 MHz Tx Mode
 M/N : CPE220

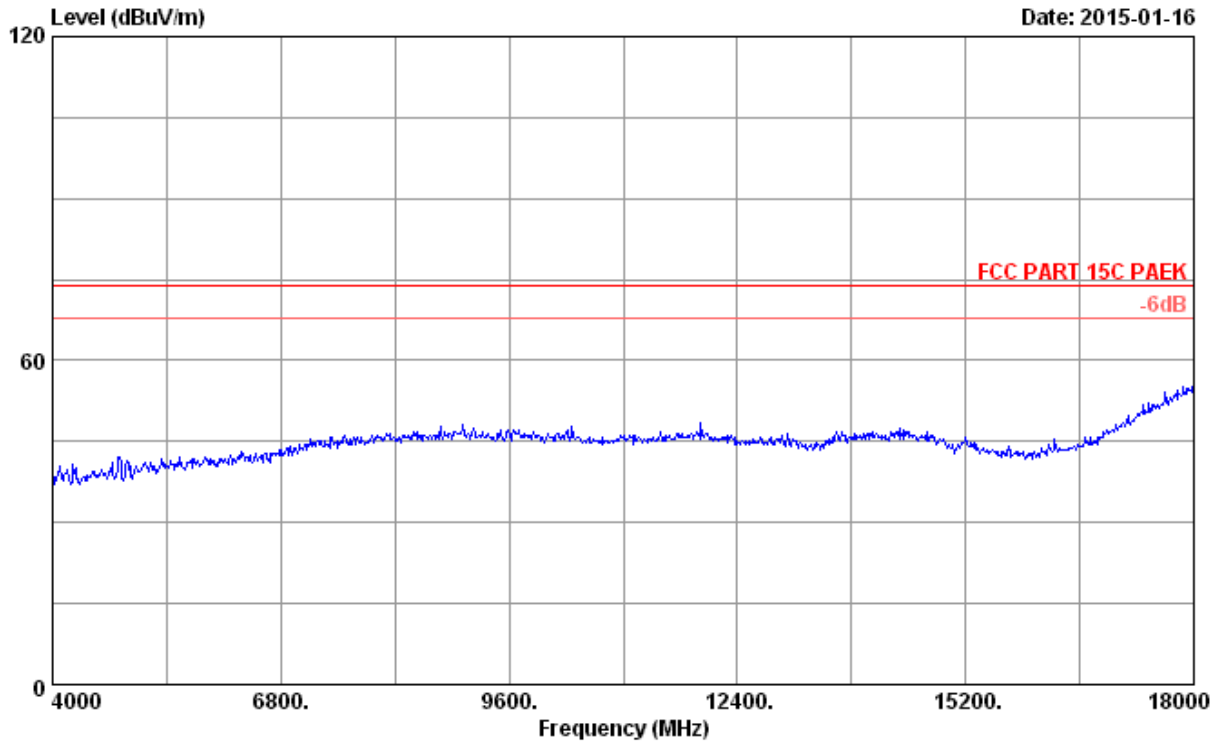
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.000	32.88	8.58	35.70	40.16	45.92	54.00	8.08	Average
2	4824.000	32.88	8.58	35.70	44.62	50.38	74.00	23.62	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

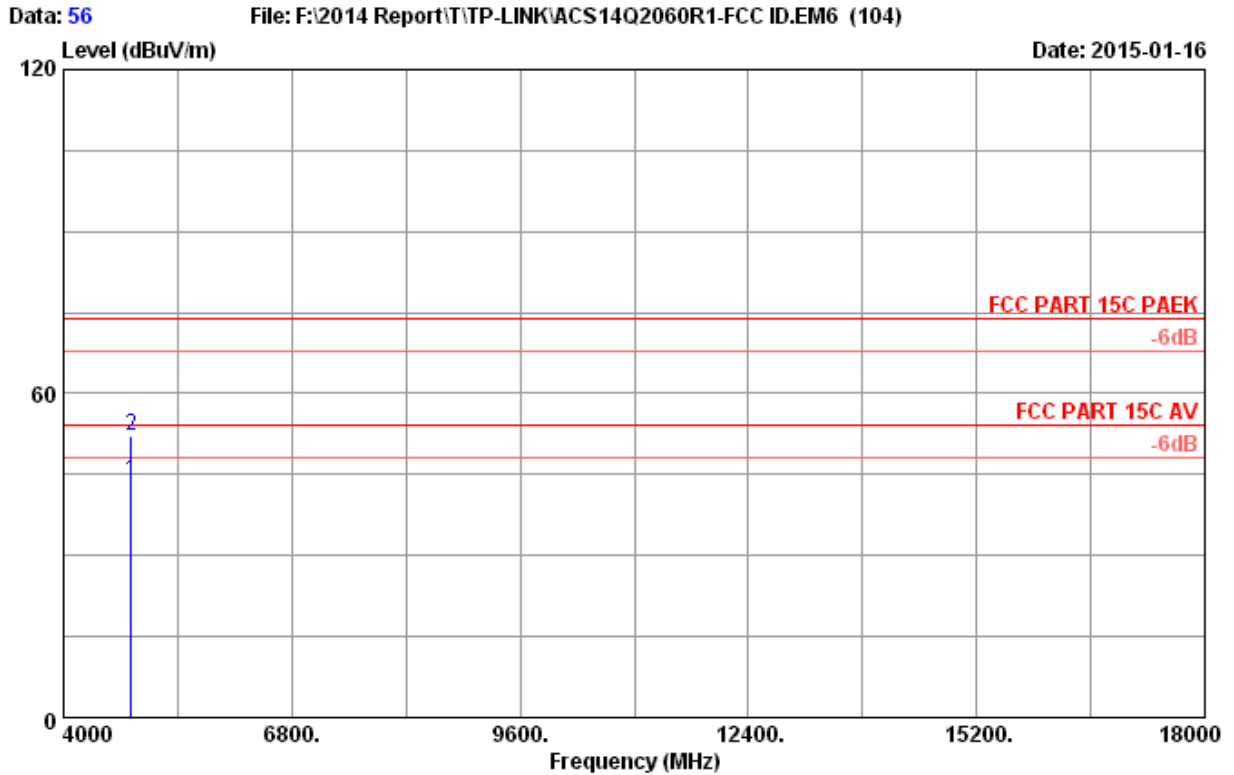
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File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-16



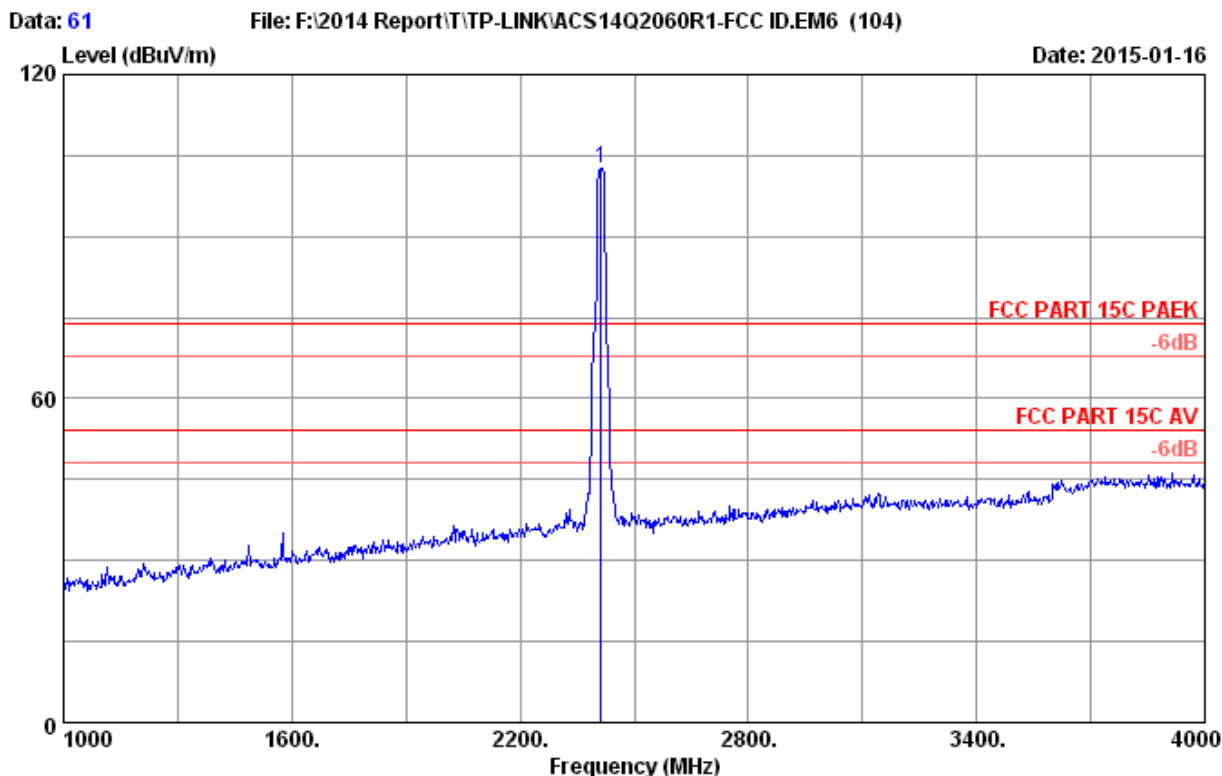
Site no. : 3m Chamber Data no. : 55
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PAEK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11nHT20 2412 MHz Tx Mode
M/N : CPE220



Site no. : 3m Chamber Data no. : 56
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2412 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.000	32.88	8.58	35.70	38.03	43.79	54.00	10.21	Average
2	4824.000	32.88	8.58	35.70	46.37	52.13	74.00	21.87	Peak

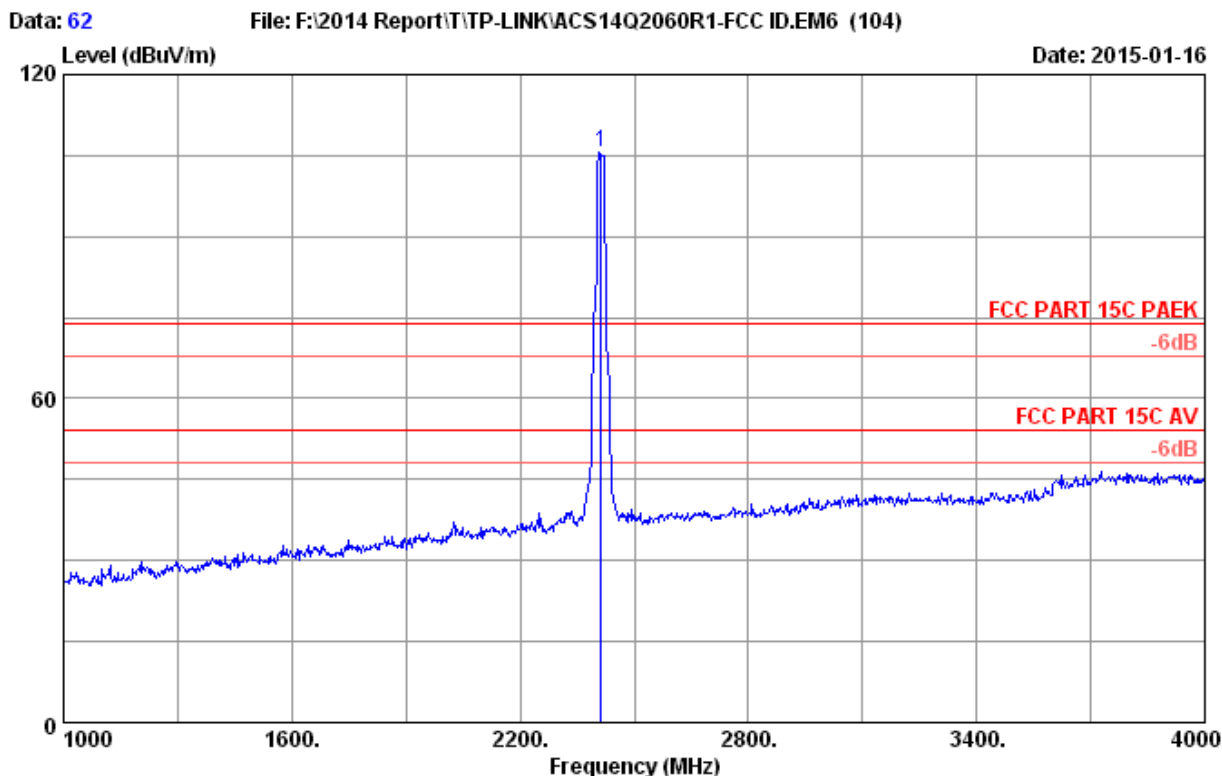
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 61
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2412 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.000	28.21	5.81	35.70	104.45	102.77	74.00	-28.77	Peak

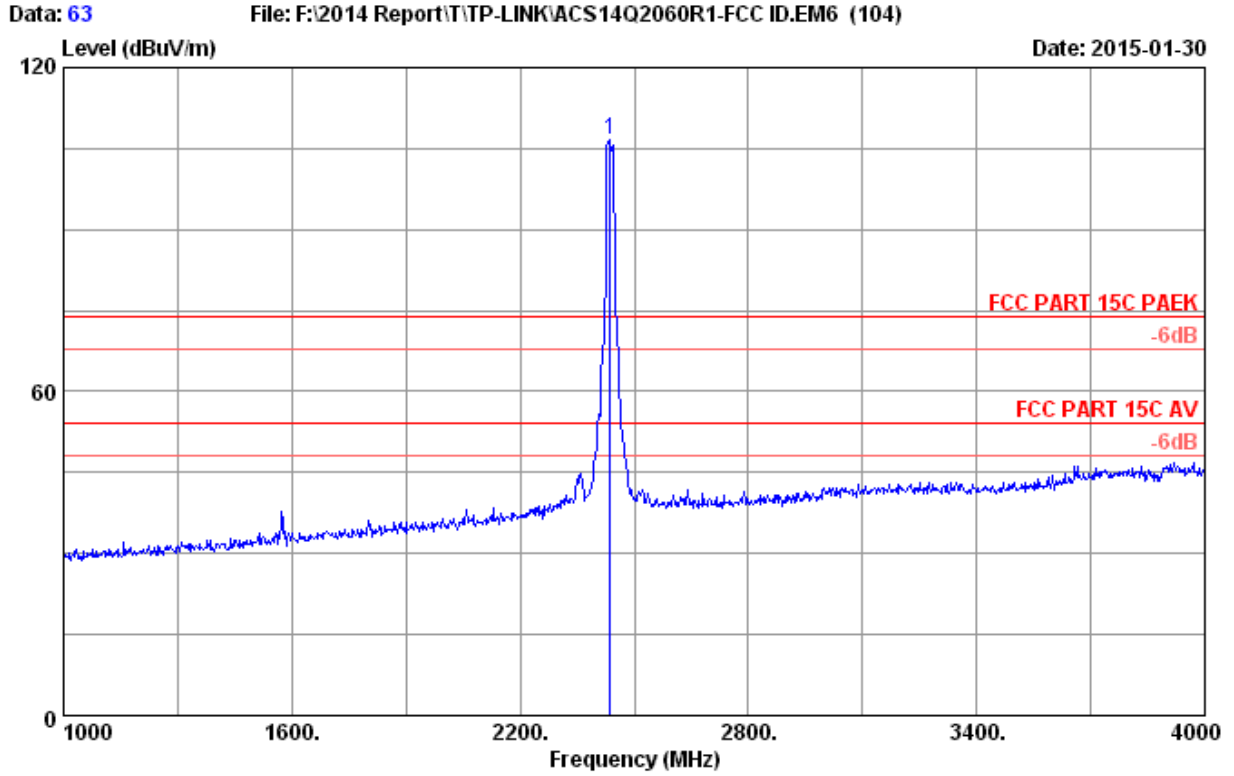
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 62
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2412 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.000	28.21	5.81	35.70	107.17	105.49	74.00	-31.49	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 63
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2437 MHz Tx Mode
 M/N : CPE220

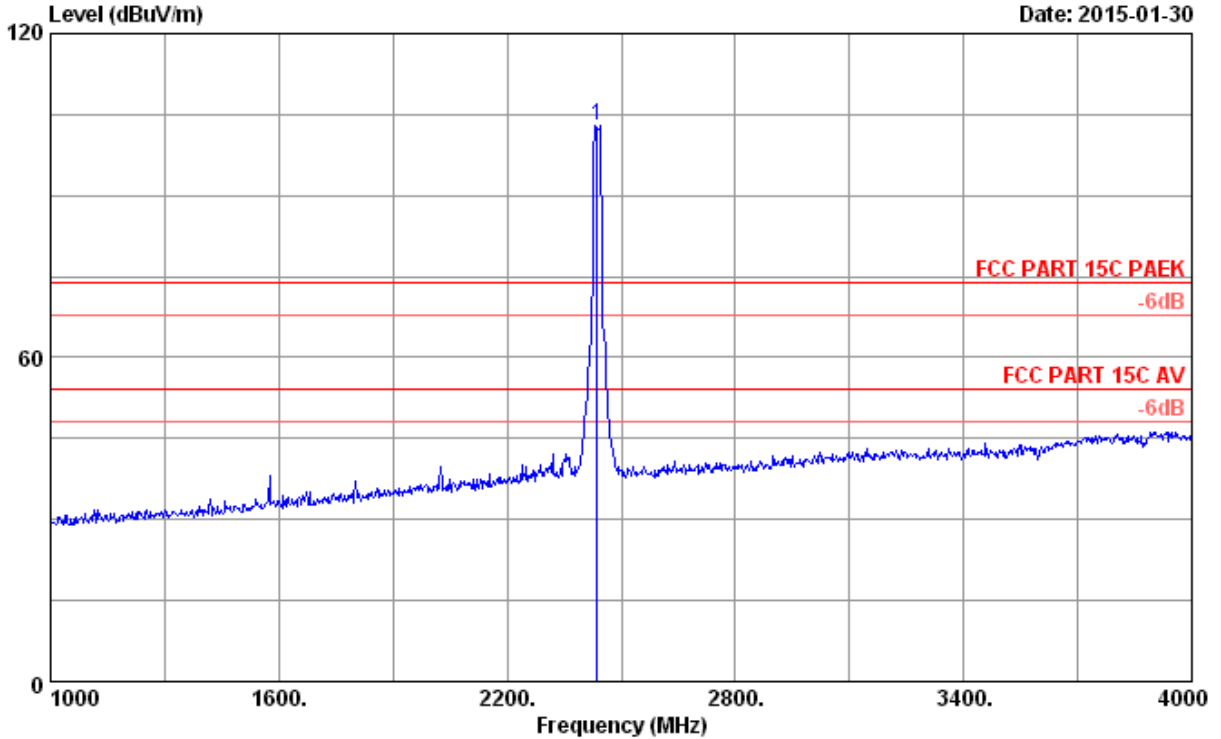
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.000	28.26	5.85	35.70	108.29	106.70	74.00	-32.70	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 64

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-30



Site no. : 3m Chamber Data no. : 64
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2437 MHz Tx Mode
 M/N : CPE220

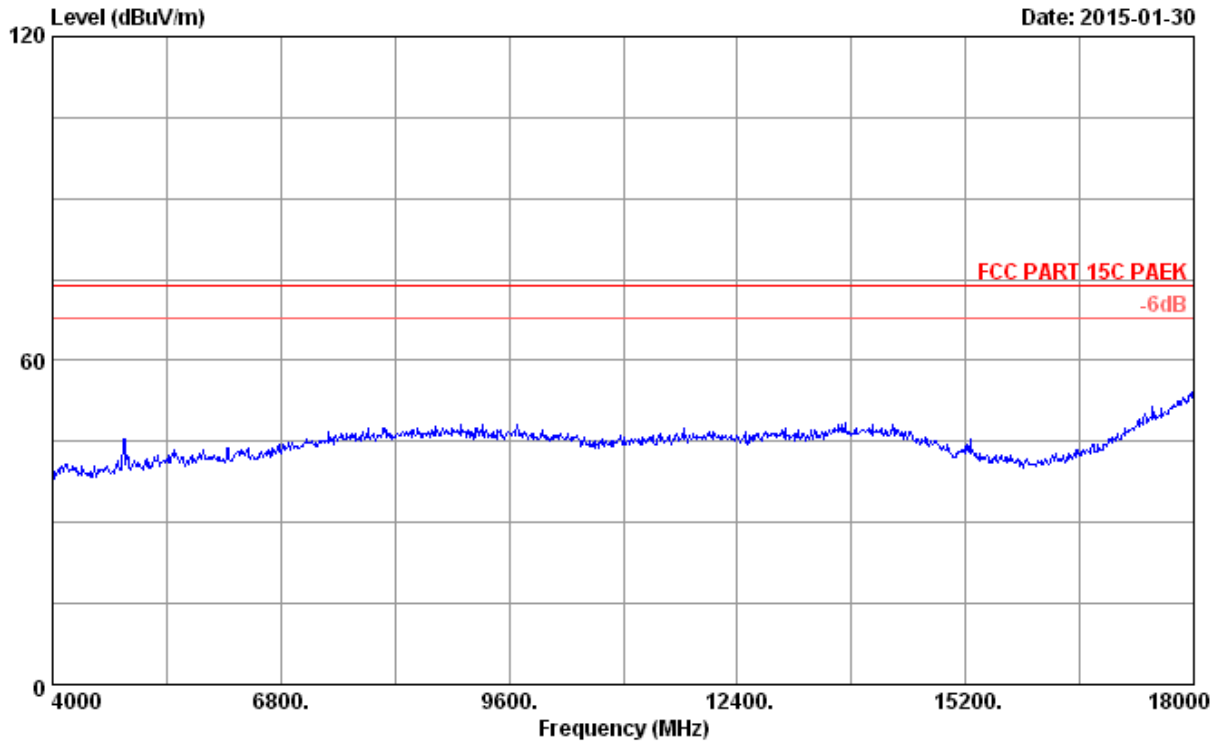
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.000	28.26	5.85	35.70	104.65	103.06	74.00	-29.06	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

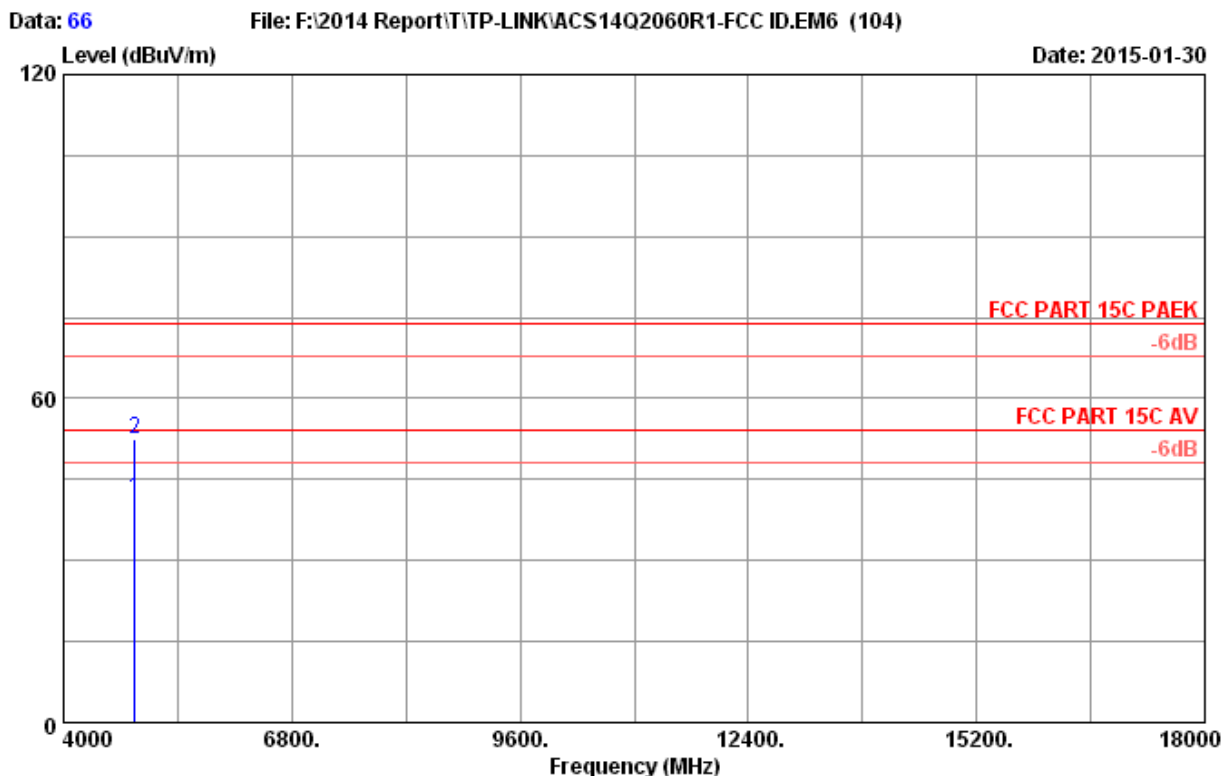
Data: 65

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-30



Site no. : 3m Chamber Data no. : 65
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PAEK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11nHT20 2437 MHz Tx Mode
M/N : CPE220



Site no. : 3m Chamber Data no. : 66
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2437 MHz Tx Mode
 M/N : CPE220

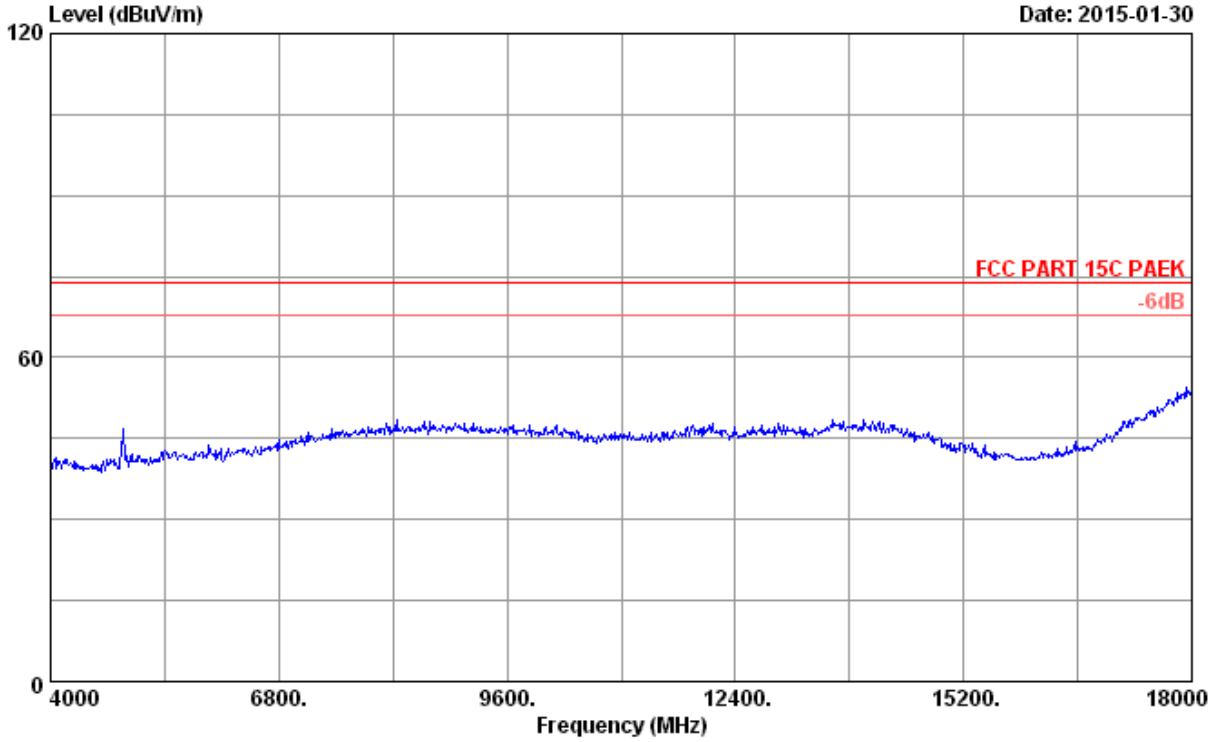
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	32.97	8.63	35.70	35.69	41.59	54.00	12.41	Average
2	4874.000	32.97	8.63	35.70	46.54	52.44	74.00	21.56	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 67

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-30



Site no. : 3m Chamber Data no. : 67
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PAEK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11nHT20 2437 MHz Tx Mode
M/N : CPE220



Site no. : 3m Chamber Data no. : 68
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2437 MHz Tx Mode
 M/N : CPE220

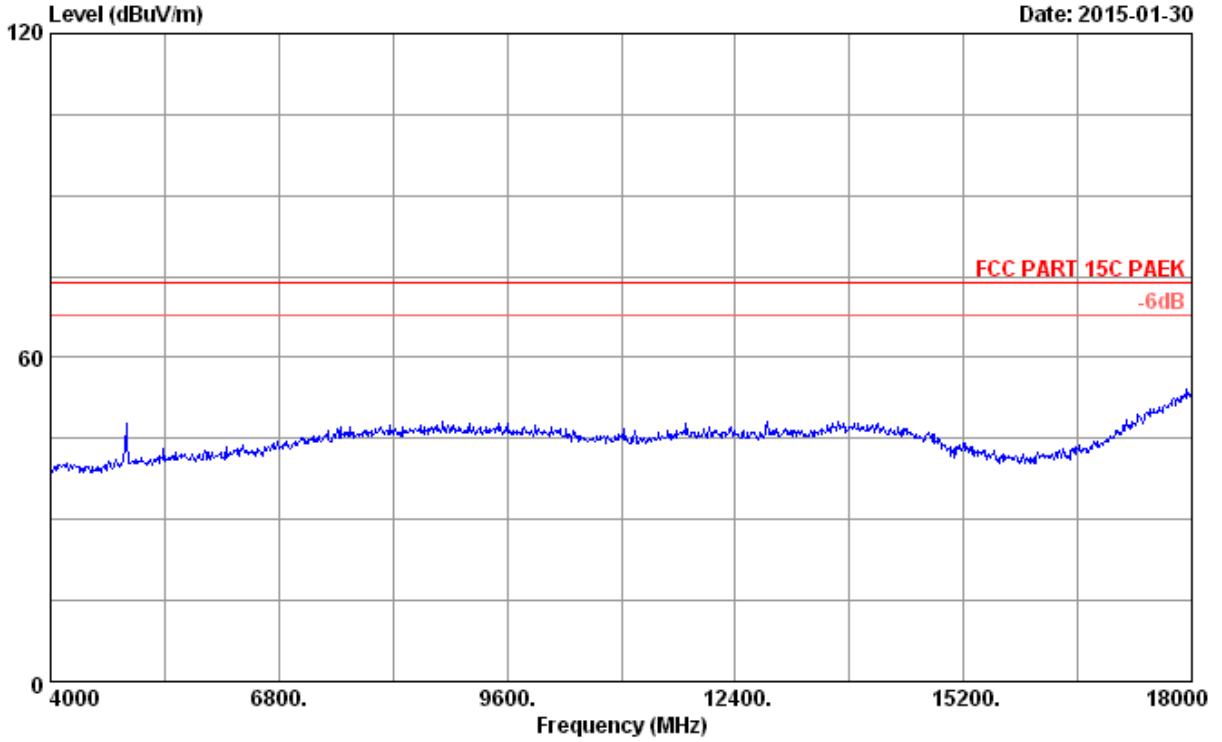
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	32.97	8.63	35.70	37.87	43.77	54.00	10.23	Average
2	4874.000	32.97	8.63	35.70	46.39	52.29	74.00	21.71	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

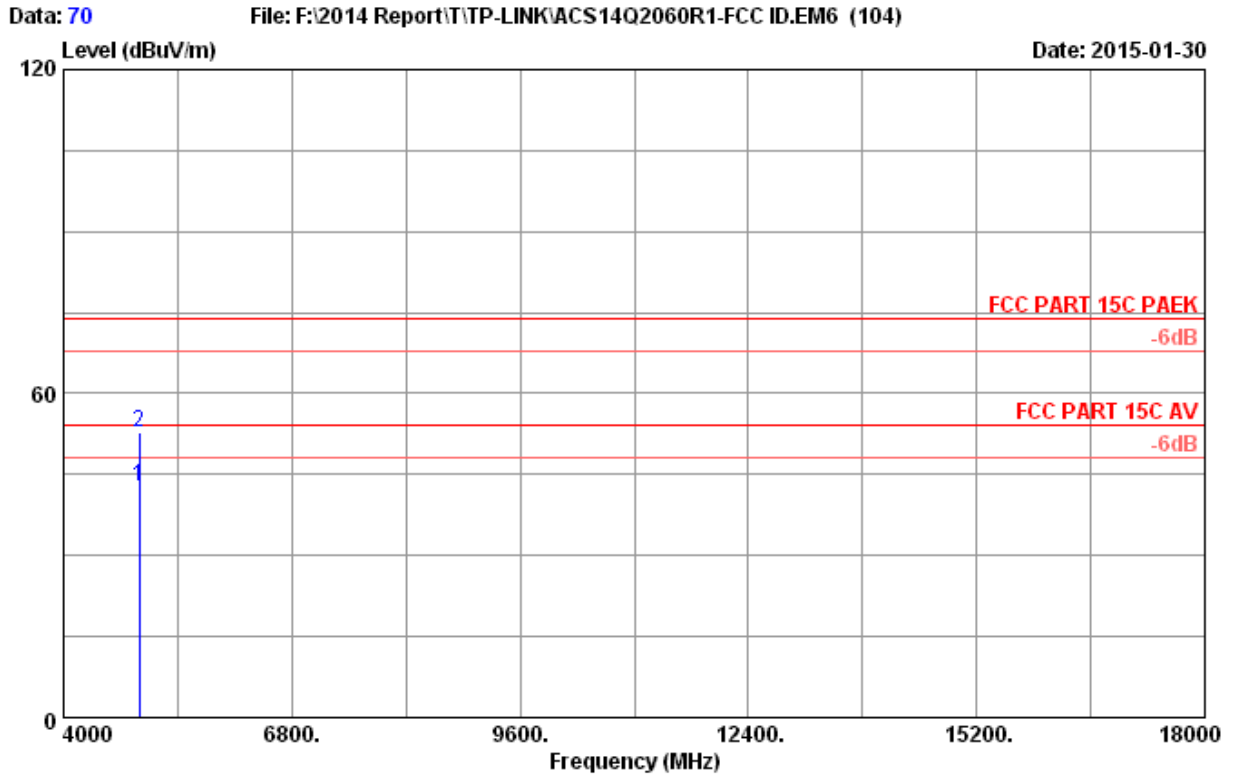
Data: 69

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-30



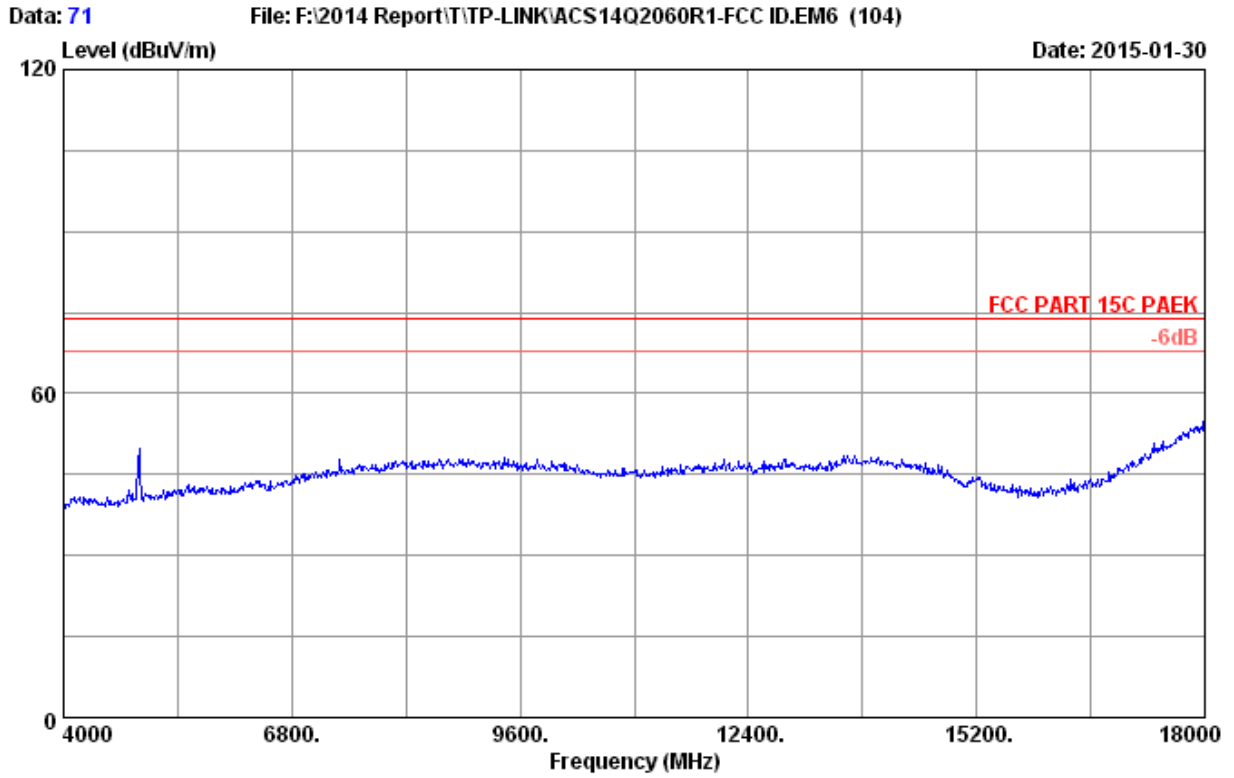
Site no. : 3m Chamber Data no. : 69
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PAEK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11nHT20 2462 MHz Tx Mode
M/N : CPE220



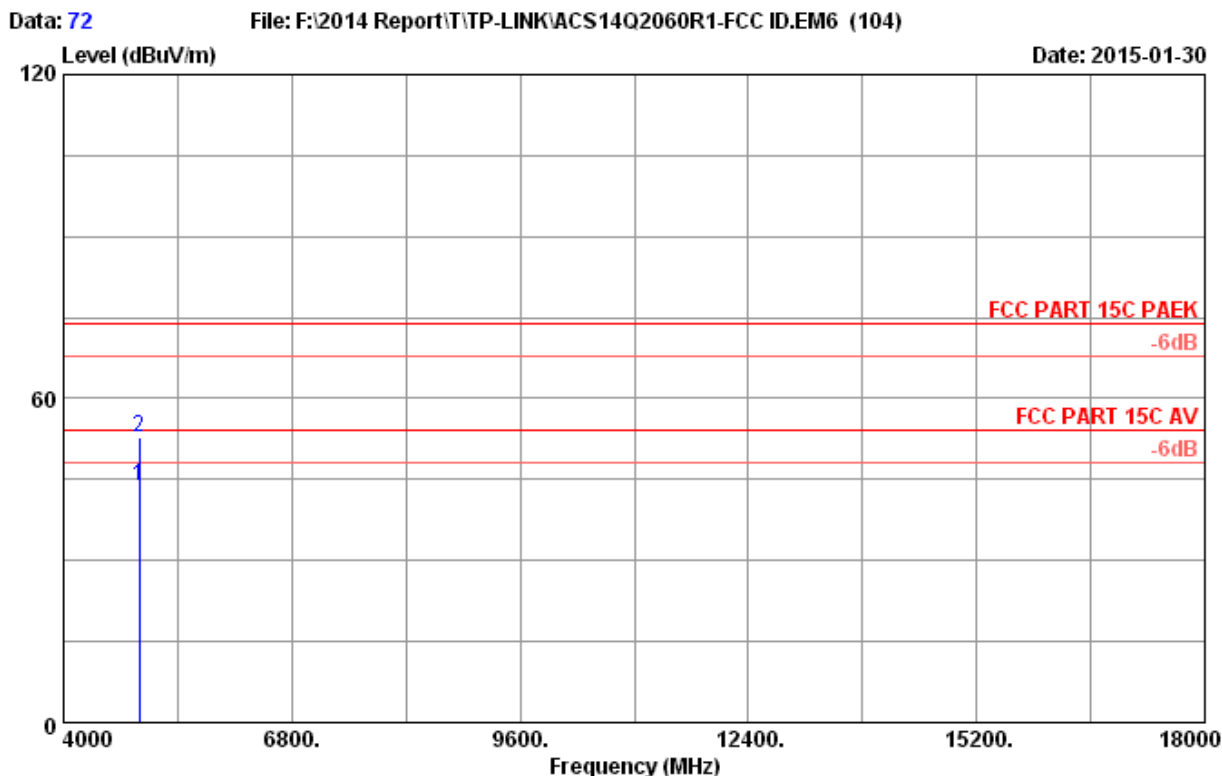
Site no. : 3m Chamber Data no. : 70
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2462 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.000	33.06	8.69	35.70	36.73	42.78	54.00	11.22	Average
2	4924.000	33.06	8.69	35.70	46.87	52.92	74.00	21.08	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



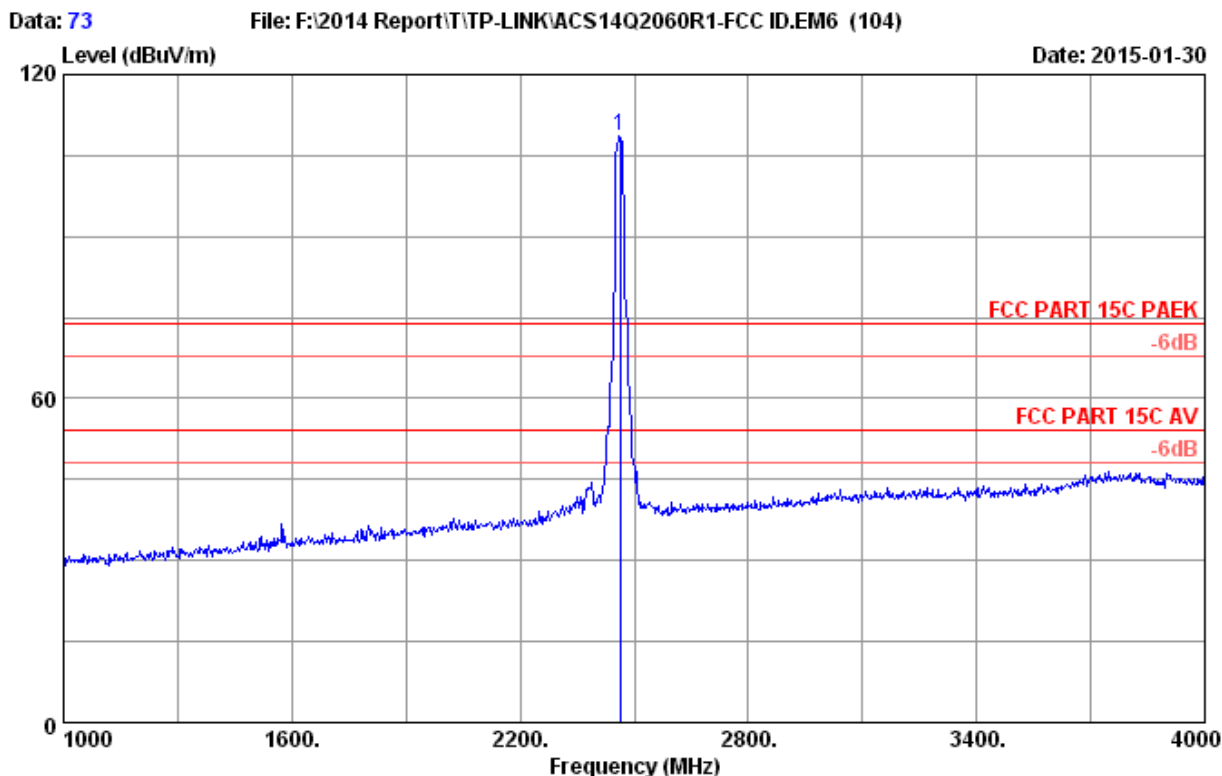
Site no. : 3m Chamber Data no. : 71
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PAEK
Env. / Ins. : 23*C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11nHT20 2462 MHz Tx Mode
M/N : CPE220



Site no. : 3m Chamber Data no. : 72
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2462 MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.000	33.06	8.69	35.70	37.76	43.81	54.00	10.19	Average
2	4924.000	33.06	8.69	35.70	46.75	52.80	74.00	21.20	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 73
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2462MHz Tx Mode
 M/N : CPE220

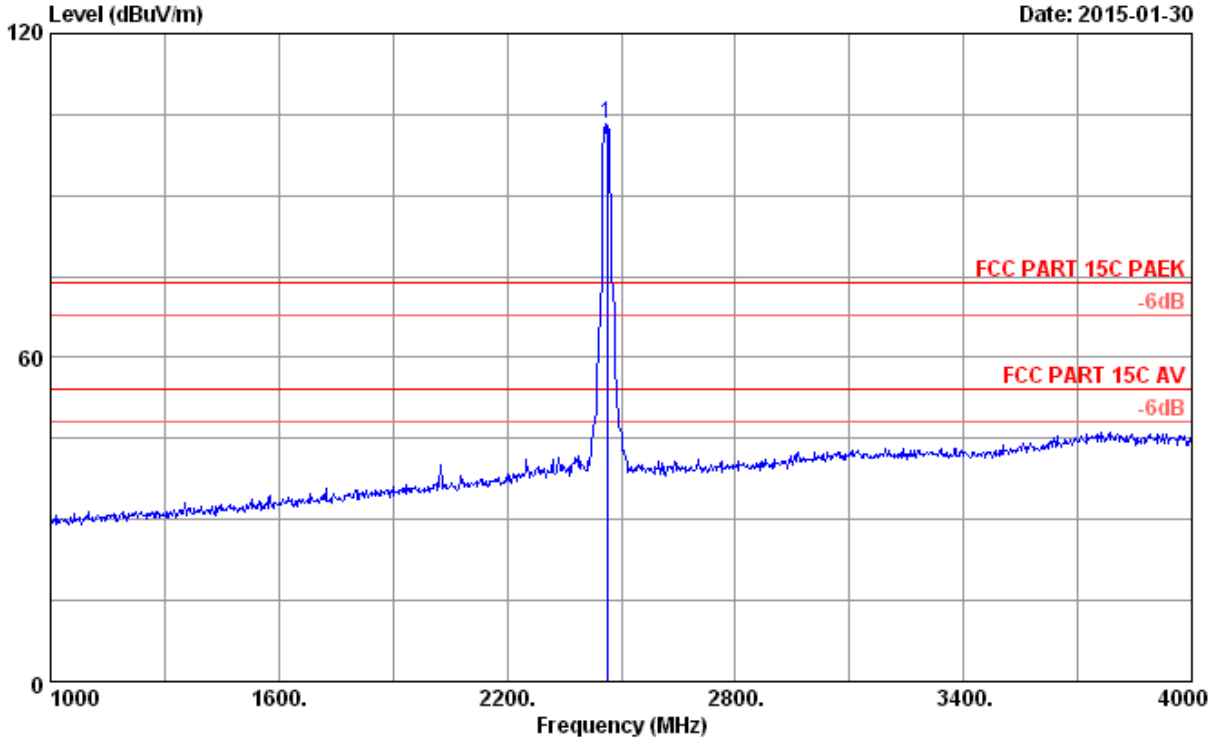
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.000	28.32	5.89	35.70	110.04	108.55	74.00	-34.55	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 74

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-30



Site no. : 3m Chamber Data no. : 74
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2462MHz Tx Mode
 M/N : CPE220

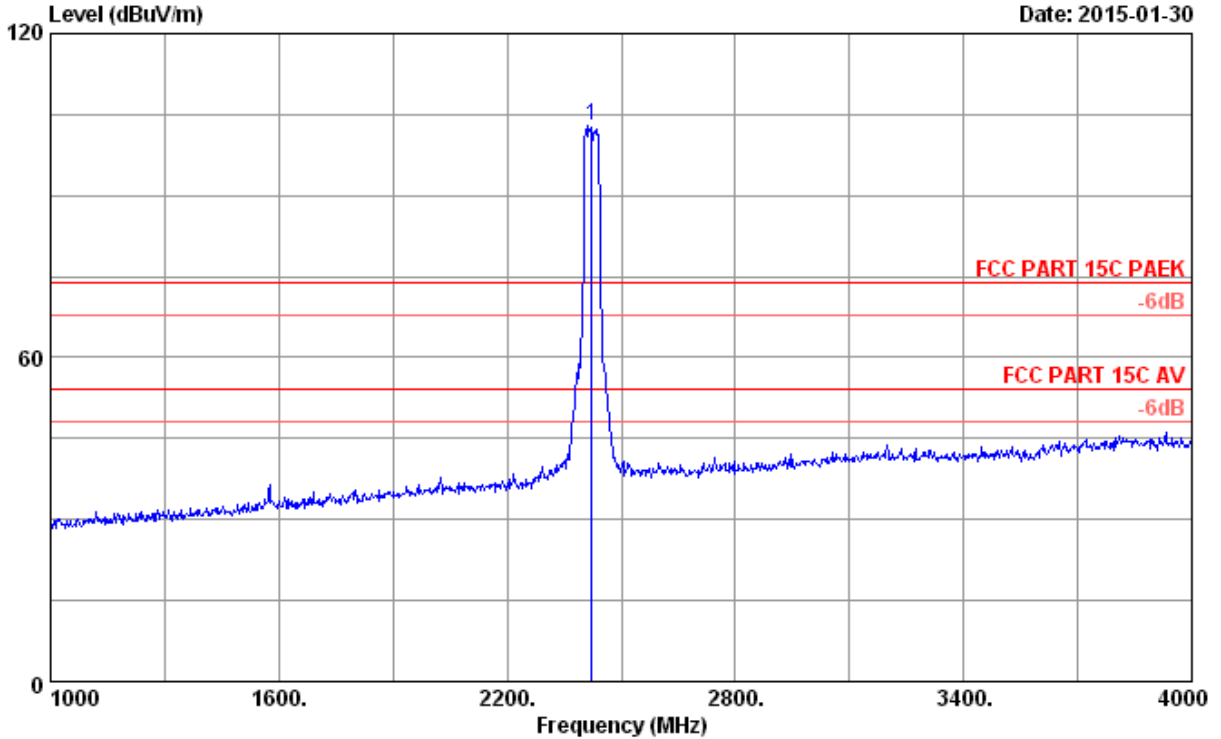
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.000	28.32	5.89	35.70	104.80	103.31	74.00	-29.31	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 79

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-30



Site no. : 3m Chamber Data no. : 79
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2422MHz Tx Mode
 M/N : CPE220

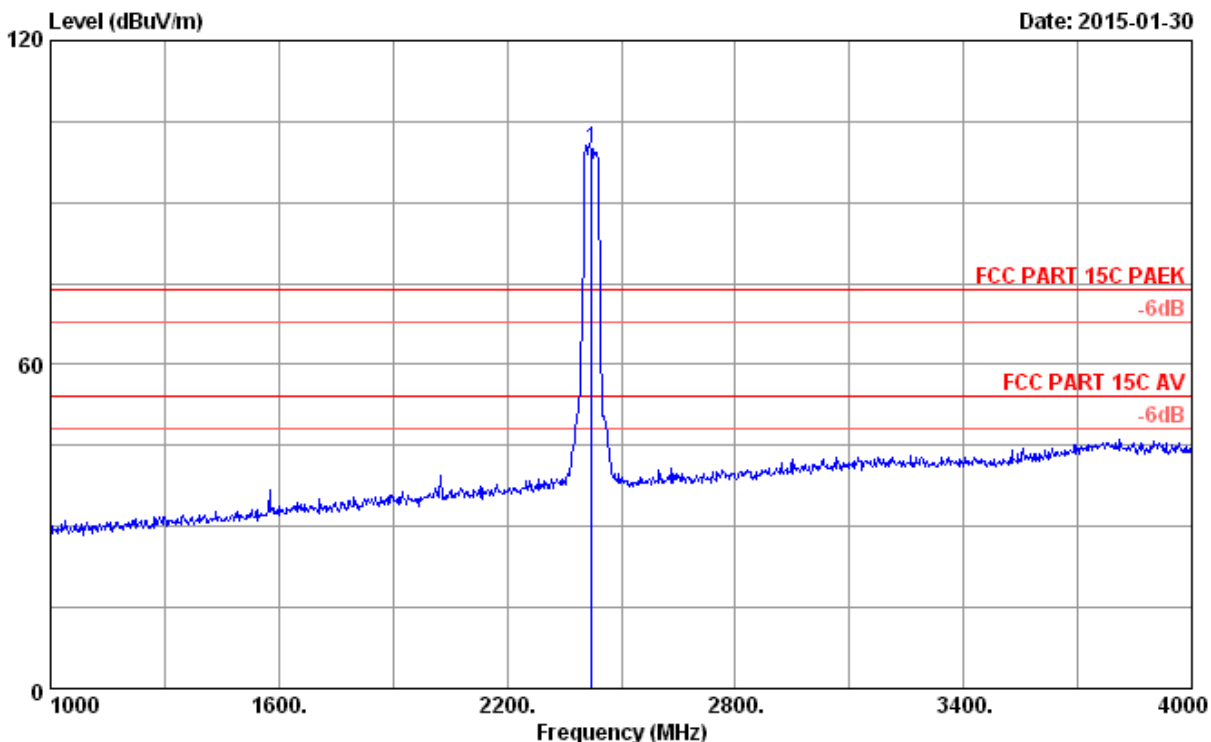
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2422.000	28.23	5.83	35.70	104.73	103.09	74.00	-29.09	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 80

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-30



Site no. : 3m Chamber Data no. : 80
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2422MHz Tx Mode
 M/N : CPE220

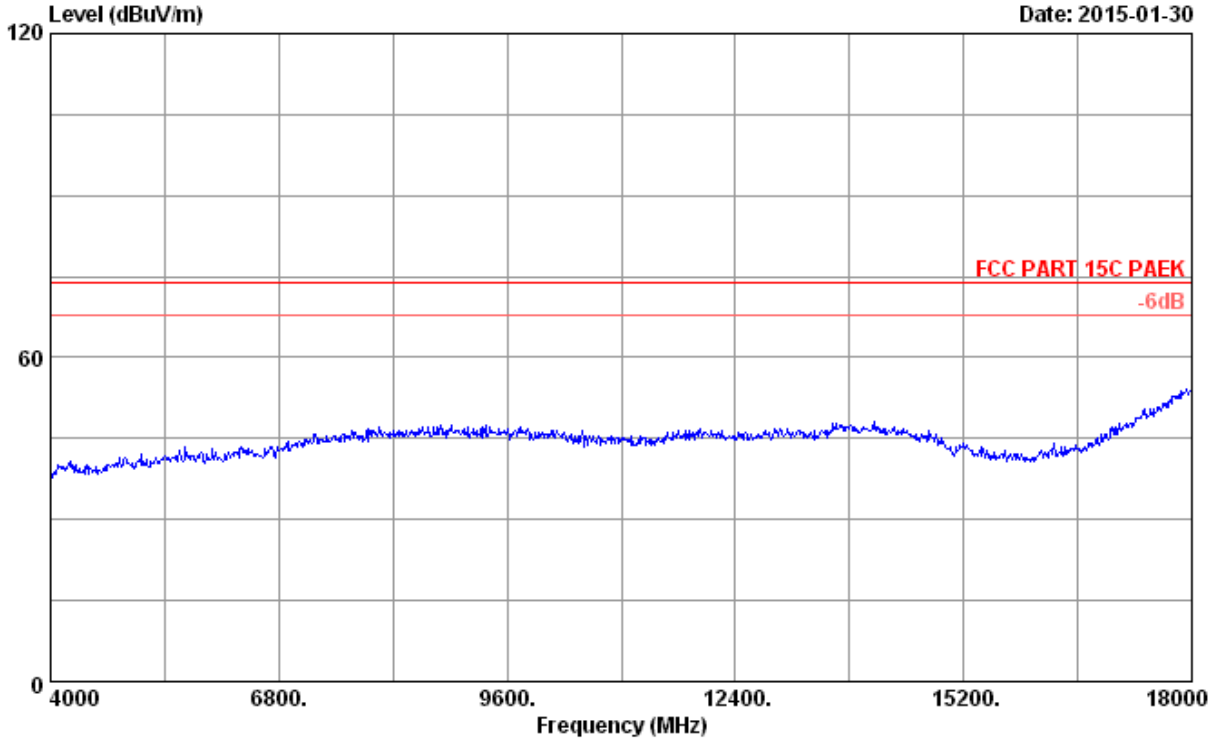
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2422.000	28.23	5.83	35.70	101.60	99.96	74.00	-25.96	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

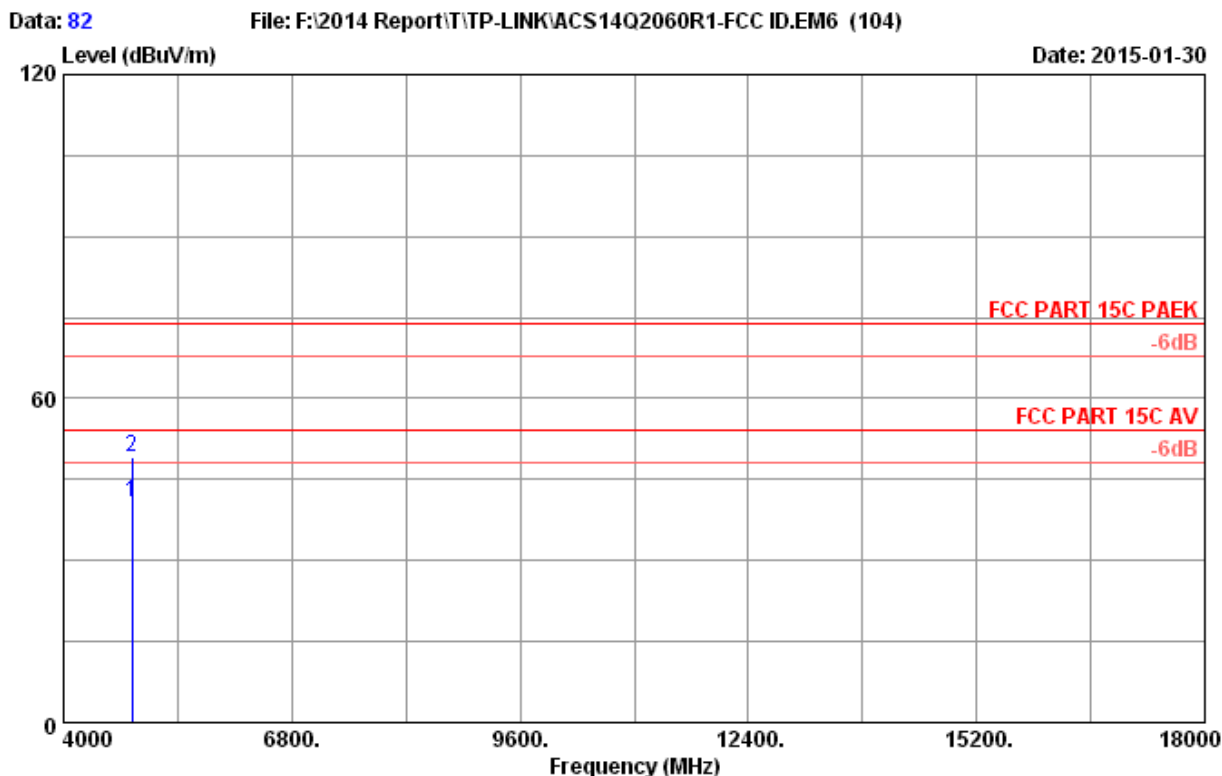
Data: 81

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-30



Site no. : 3m Chamber Data no. : 81
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PAEK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11nHT40 2422MHz Tx Mode
M/N : CPE220



Site no. : 3m Chamber Data no. : 82
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2422MHz Tx Mode
 M/N : CPE220

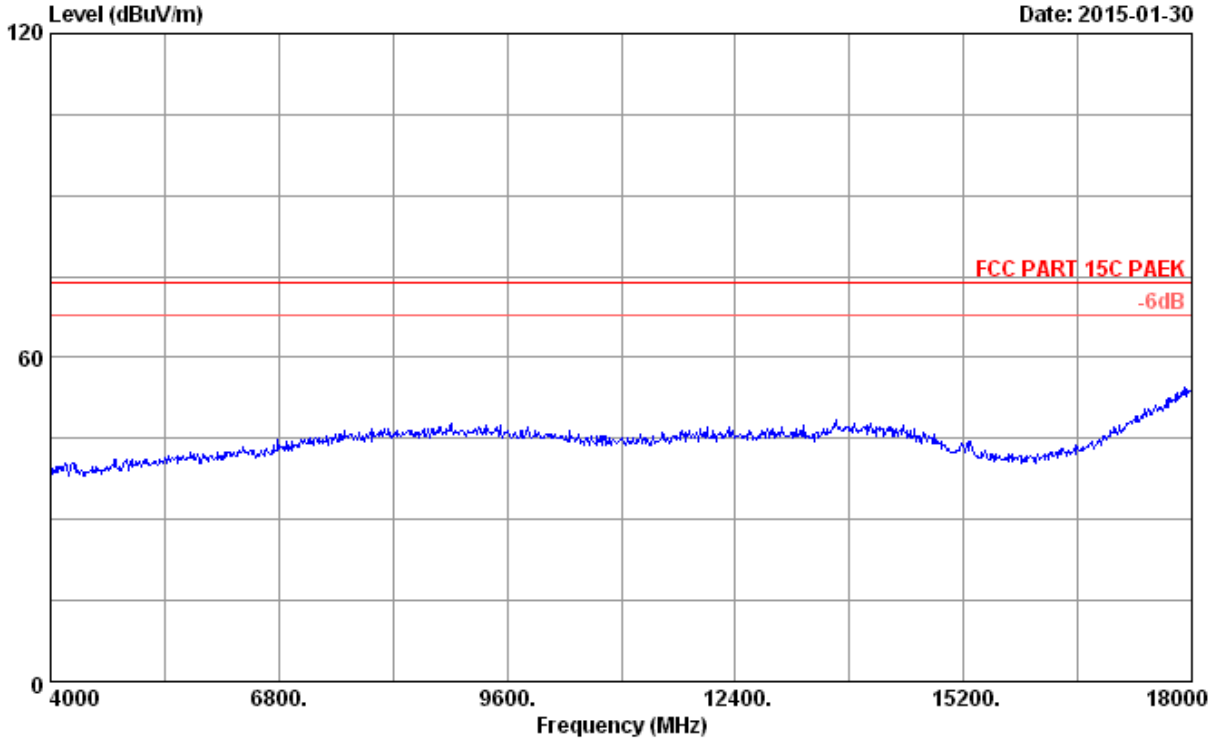
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4844.000	32.92	8.60	35.70	34.79	40.61	54.00	13.39	Average
2	4844.000	32.92	8.60	35.70	43.44	49.26	74.00	24.74	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

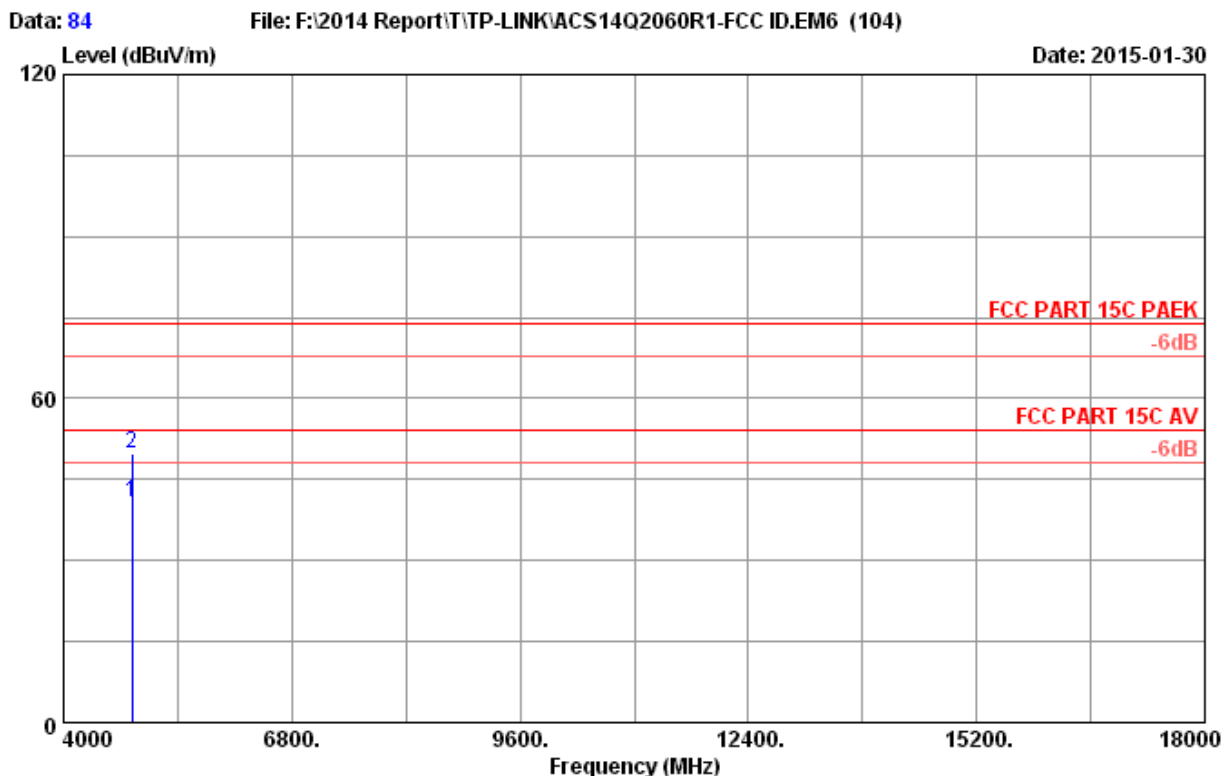
Data: 83

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-30



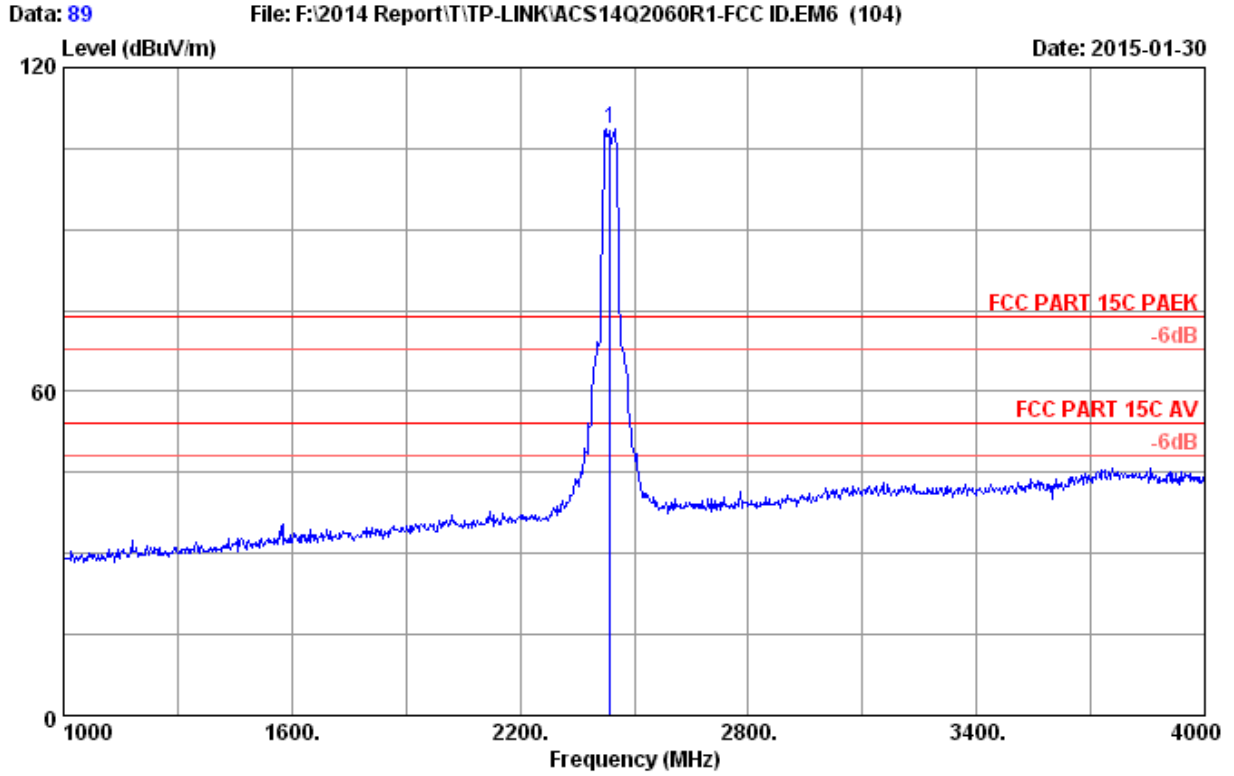
Site no. : 3m Chamber Data no. : 83
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PAEK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11nHT40 2422MHz Tx Mode
M/N : CPE220



Site no. : 3m Chamber Data no. : 84
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2422MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4844.000	32.92	8.60	35.70	34.99	40.81	54.00	13.19	Average
2	4844.000	32.92	8.60	35.70	43.99	49.81	74.00	24.19	Peak

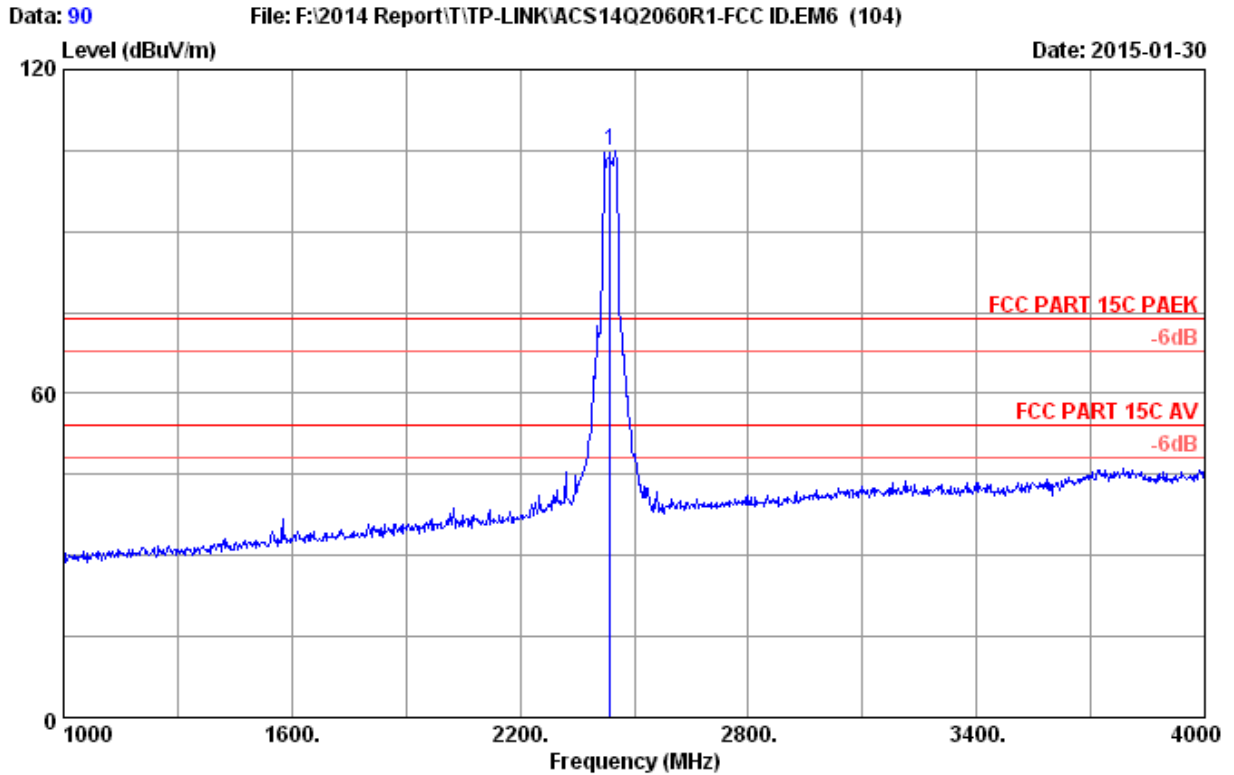
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 89
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2437MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.000	28.26	5.85	35.70	110.09	108.50	74.00	-34.50	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 90
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2437MHz Tx Mode
 M/N : CPE220

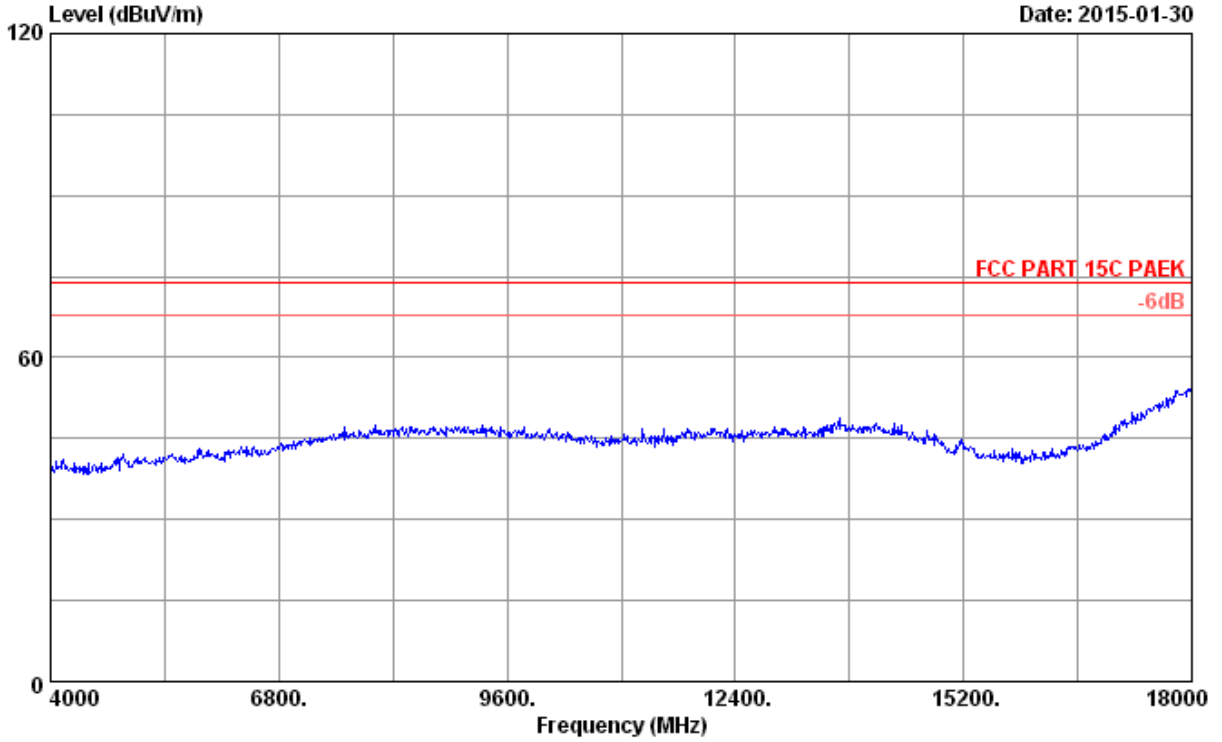
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.000	28.26	5.85	35.70	106.70	105.11	74.00	-31.11	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 91

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-30



Site no. : 3m Chamber Data no. : 91
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PAEK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11nHT40 2437MHz Tx Mode
M/N : CPE220



Site no. : 3m Chamber Data no. : 92
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2437MHz Tx Mode
 M/N : CPE220

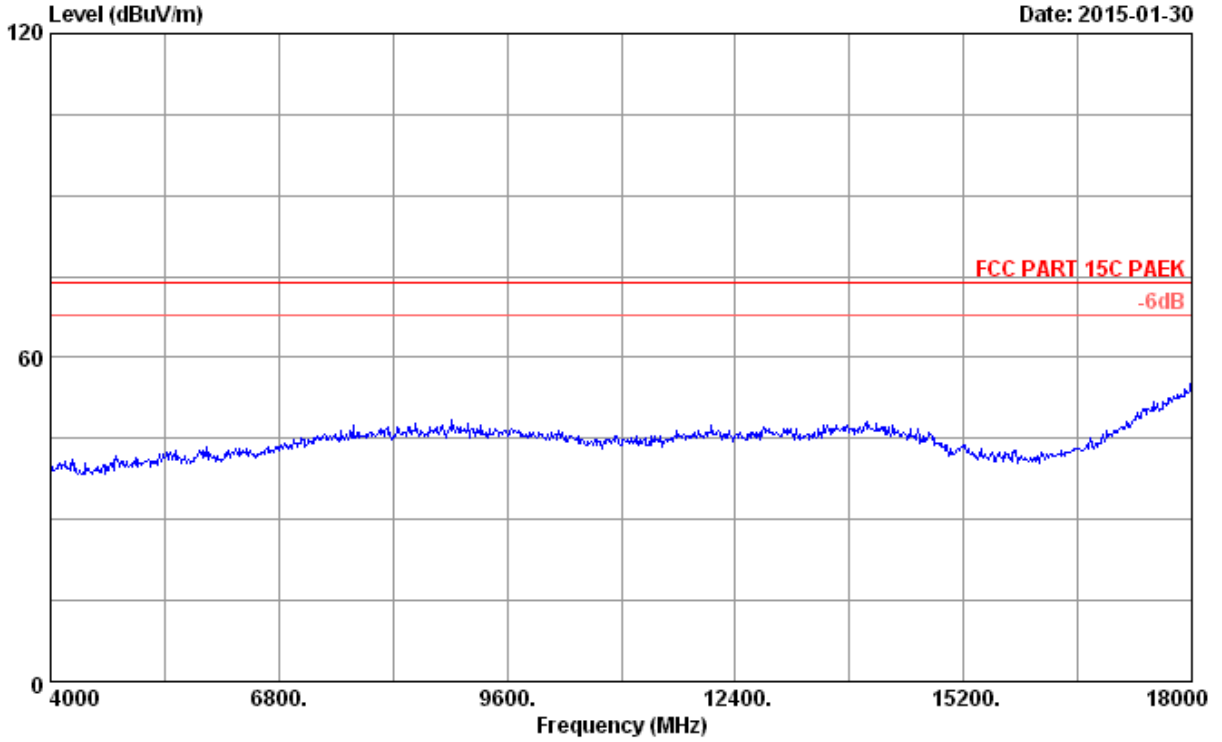
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	32.97	8.63	35.70	33.48	39.38	54.00	14.62	Average
2	4874.000	32.97	8.63	35.70	44.69	50.59	74.00	23.41	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

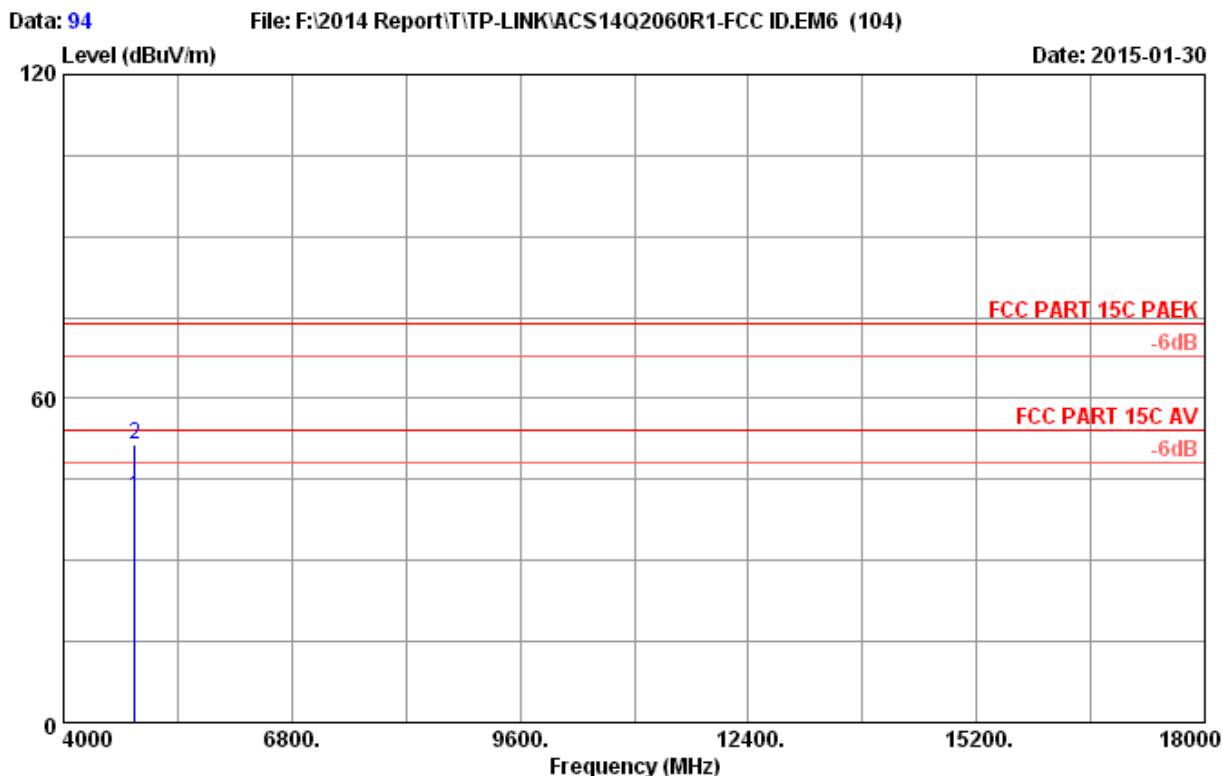
Data: 93

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-30



Site no. : 3m Chamber Data no. : 93
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PAEK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11nHT40 2437MHz Tx Mode
M/N : CPE220



Site no. : 3m Chamber Data no. : 94
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2437MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	32.97	8.63	35.70	35.97	41.87	54.00	12.13	Average
2	4874.000	32.97	8.63	35.70	45.73	51.63	74.00	22.37	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 96
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2452MHz Tx Mode
 M/N : CPE220

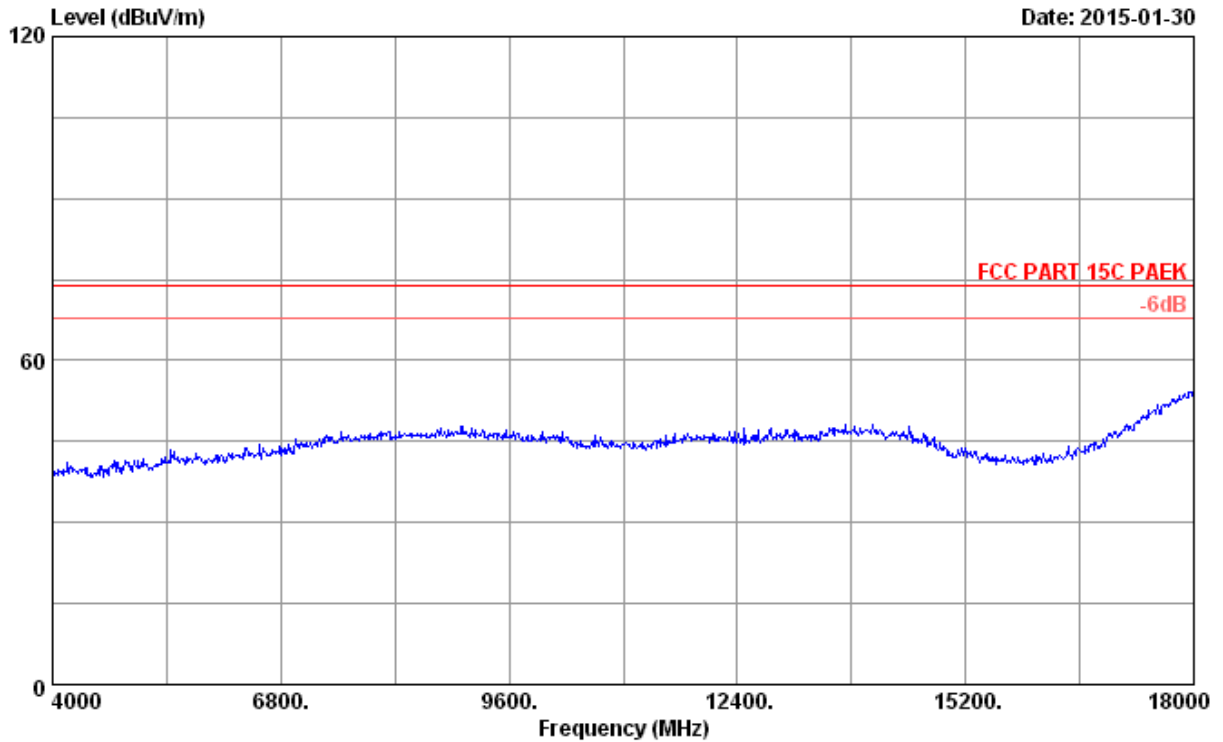
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4904.000	33.03	8.66	35.70	34.96	40.95	54.00	13.05	Average
2	4904.000	33.03	8.66	35.70	45.62	51.61	74.00	22.39	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

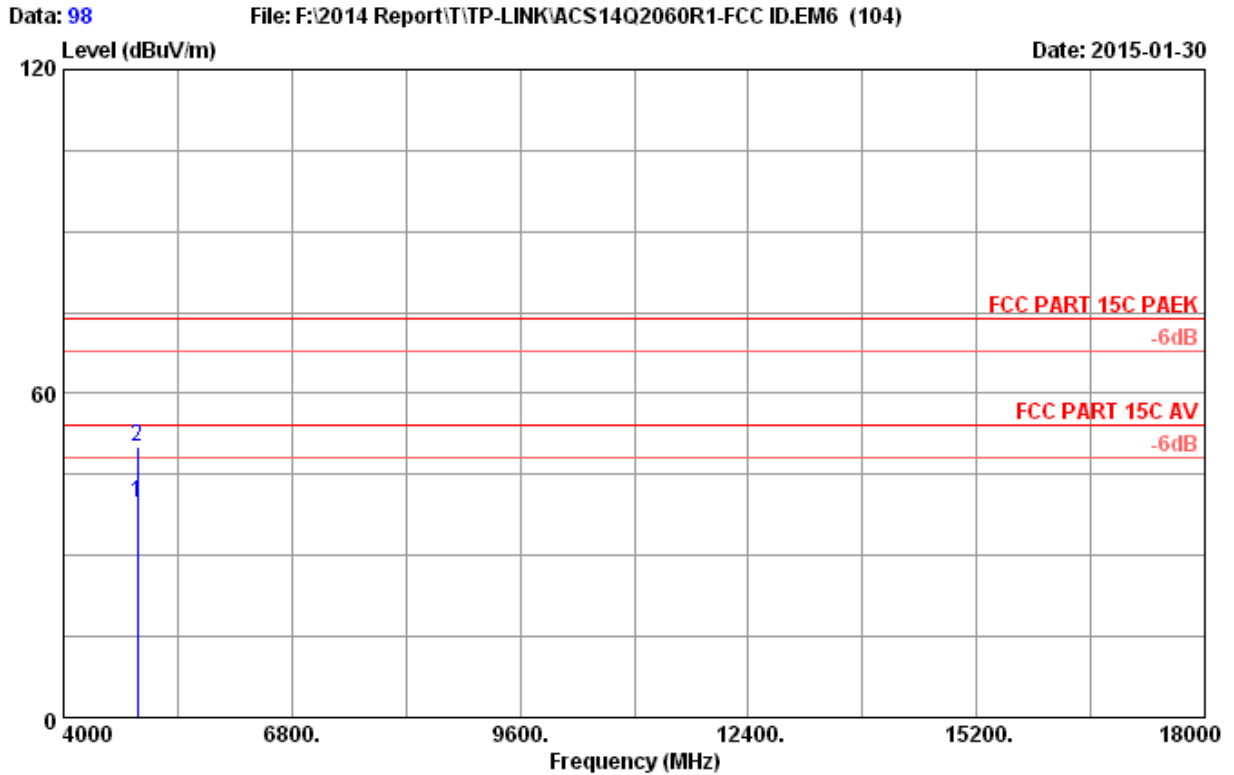
Data: 97

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

Date: 2015-01-30



Site no. : 3m Chamber Data no. : 97
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PAEK
Env. / Ins. : 23°C/54%
Engineer : Donjon_Huang
EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
Power rating : AC 120V/60Hz
Test Mode : IEEE802.11nHT40 2452MHz Tx Mode
M/N : CPE220



Site no. : 3m Chamber Data no. : 98
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2452MHz Tx Mode
 M/N : CPE220

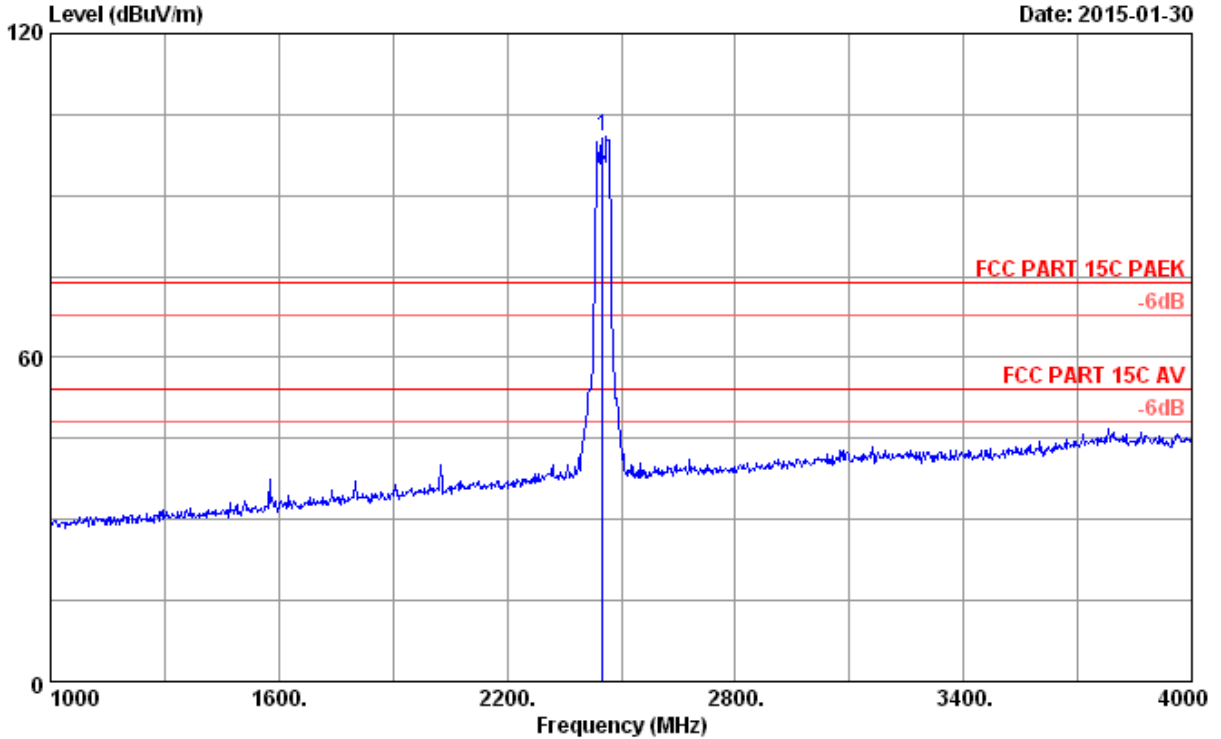
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4904.000	33.03	8.66	35.70	33.63	39.62	54.00	14.38	Average
2	4904.000	33.03	8.66	35.70	44.23	50.22	74.00	23.78	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 103

File: F:\2014 Report\T\TP-LINK\ACS14Q2060R1-FCC ID.EM6 (104)

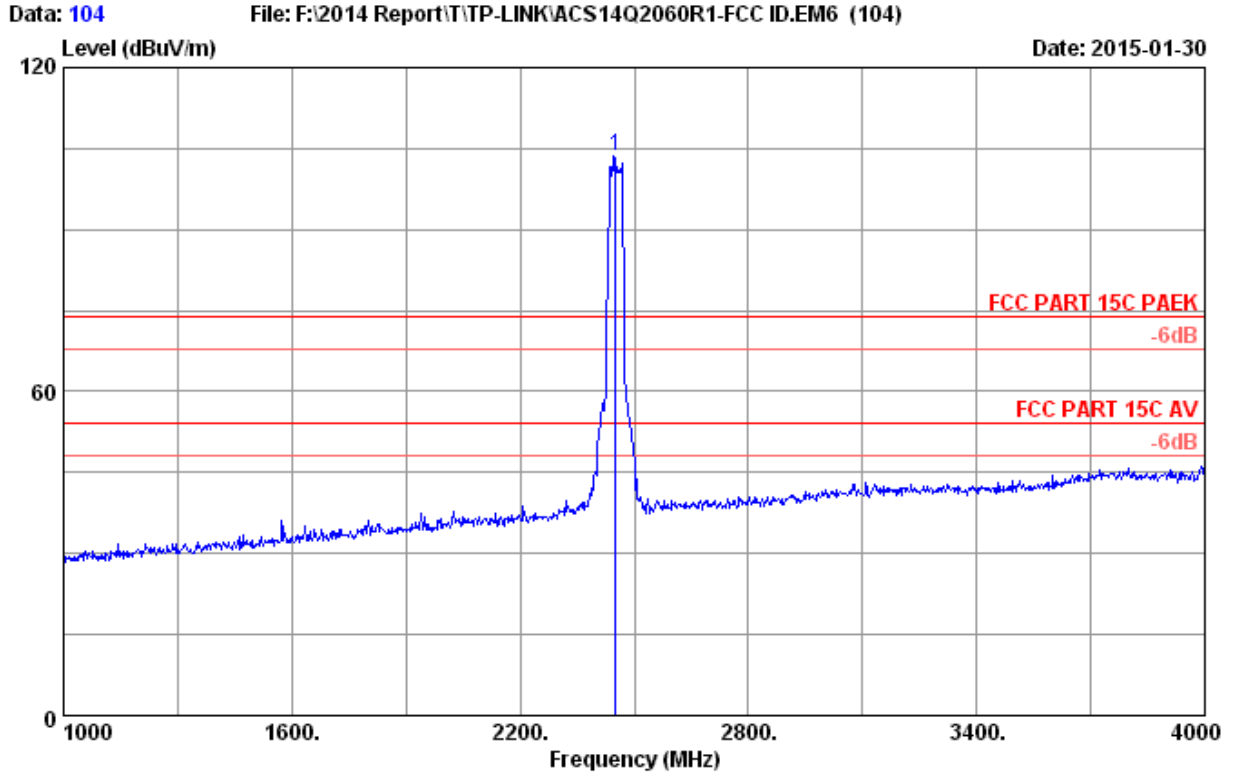
Date: 2015-01-30



Site no. : 3m Chamber Data no. : 103
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2452MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2452.000	28.29	5.87	35.70	102.33	100.79	74.00	-26.79	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 104
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAEK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon_Huang
 EUT : 2.4GHz 300Mbps 12dBi Outdoor CPE
 Power rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2452MHz Tx Mode
 M/N : CPE220

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2452.000	28.29	5.87	35.70	105.10	103.56	74.00	-29.56	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.