FCC PART 15 SUBPART C TEST REPORT

for

GPS enabled cycling computer

Model No.: Aero 60

FCC ID: YDM-EA1703

of

Applicant: Bryton Inc.
Address: 3F-1., No.79-1, Zhouzi St., Neihu Dist., Taipei City 114, Taiwan

Tested and Prepared

by

Worldwide Testing Services (Taiwan) Co., Ltd.

FCC Registration No.: TW1477, TW0020, TW1072

Industry Canada filed test laboratory Reg. No. IC 5679A-1, IC 5107A-1

A2LA Accredited No.: 2732.01

Report No.: W6M21806-18161-C-1

6F, NO. 58, LANE 188, RUEY-KUANG RD., NEIHU TAIPEI 114, TAIWAN, R.O.C.
TEL: 886-2-66068877 FAX: 886-2-66068879 E-mail: wts@wts-lab.com

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1 General Information

1.1 Notes

The purpose of conformity testing is to increase the probability of adherence to the essential requirements or conformity specifications, as appropriate.
The complexity of the technical specifications, however, means that full and thorough testing is impractical for both technical and economic reasons.
Furthermore, there is no guarantee that a test sample which has passed all the relevant tests conforms to a specification.
Neither is there any guarantee that such a test sample will interwork with other genuinely open systems.
The existence of the tests nevertheless provides the confidence that the test sample possesses the qualities as maintained and that is performance generally conforms to representative cases of communications equipment.

The test results of this test report relate exclusively to the item tested as specified in 1.5.
The test report may only be reproduced or published in full.
Reproduction or publication of extracts from the report requires the prior written approval of the Worldwide Testing Services(Taiwan) Co., Ltd.

Specific Conditions:
Usage of the hereunder tested device in combination with other integrated or external antennas requires at least additional output power measurements, spurious emission measurements, conducted emission measurements (AC supply lines) and radio frequency exposure evaluations for each individual configuration performed, for certification by FCC.
The test sample is able to work according IEEE 802.11 b/g/n and BLE.

Tester:

June 22, 2018		Spencer Yang	Spencer
Date	WTS-Lab.	Name	Signature

Technical responsibility for area of testing:

June 22, 2018		Kevin Wang	Kevin Wang
Date	WTS	Name	Signature

Registration number: W6M21806-18161-C-1
FCC ID: YDM-EA1703

1.2 Testing laboratory

1.2.1 Location

OATS
No.5-1, Lishui, Shuang Sing Village,
Wanli Dist., New Taipei City 207,
Taiwan (R.O.C.)
3 meter semi-anechoic chamber
No.35, Aly. 21, Ln. 228, Ankang Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)
TEL:886-2-6613-0228
FAX:886-2-2791-5046

Company
Worldwide Testing Services(Taiwan) Co., Ltd.
6F, NO. 58, LANE 188, RUEY-KUANG RD.
NEIHU, TAIPEI 114, TAIWAN R.O.C.
Tel : 886-2-66068877
Fax : 886-2-66068879

1.2.2 Details of accreditation status

Accredited testing laboratory
A2LA accredited number: 2732.01
FCC filed test laboratory Reg. No. TW1477, TW0020, TW1072
Industry Canada filed test laboratory Reg. No. IC 5679A-1, IC 5107A-1

Test location, where different from Worldwide Testing Services (Taiwan) Co., Ltd. :

Name:	./.
Accredited number:	./.
Street:	./.
Town:	./.
Country:	./.
Telephone:	./.
Fax:	./.

1.3 Details of approval holder

Name:	Bryton Inc.
Street:	3F-1., No.79-1, Zhouzi St., Neihu Dist.,
Town:	Taipei City 114,
Country:	Taiwan
Telephone:	+886-2-2657-9888
Fax:	+886-2-2657-1295

1.4 Application details

Date of receipt of test item: June 12, 2018

Date of test: from June 13, 2018 to June 22, 2018

1.5 General information of Test item

Type of test item: GPS enabled cycling computer
Model Number: Aero 60
Brand Name: Bryton
Multi-listing model number: Rider 450
Photos: see Appendix

Technical data

Frequency band: 2.4 GHz – 2.4835 GHz

11b, 11g, 11n 20MHz

Frequency (ch 1 or A): 2.412 GHz
Frequency (ch 6 or B): 2.437 GHz
Frequency (ch 11 or C): 2.462 GHz

Bluetooth Low Energy

Frequency (ch 0): 2.402 GHz
Frequency (ch 19): 2.440 GHz
Frequency (ch 39): 2.480 GHz

Number of Channels: 802.11b, g, n 20MHz: 11 channels
Bluetooth: 40 channels

Operation modes: Duplex
Modulation Type: DSSS, OFDM, GFSK
Fixed point-to-point operation: ☐ Yes / ☒ No
Type of Antenna: WiFi: Chip Antenna, BLE:PCB Antenna
Antenna gain: WiFi: 2 dBi, BLE: 0 dBi
Power supply: USB 5 Vd.c.
Battery: 3.7 Vd.c., 3.15 Wh for Aero 60
Battery: 3.7 Vd.c., 3.145 Wh for Rider 450
Emission designator: 802.11b: DSSS: 14M0G1D
802.11g: OFDM: 16M6D1D
802.11n 20MHz: OFDM: 17M8D1D
Bluetooth Low Energy: 1M06G1D
Host device: none
Classification :

Fixed Device	☐
Mobile Device (Human Body distance ＞ 20cm)	☒
Portable Device (Human Body distance ＜ 20cm)	☐

Transmitter	**Unom**
Mode A (802.11b)	
Power (ch 1 or A):	Conducted: 7.99 dBm
Power (ch 6 or B):	Conducted: 7.20 dBm
Power (ch 11 or C):	Conducted: 6.58 dBm
Mode B (802.11g)	
Power (ch 1 or A):	Conducted: 3.98 dBm
Power (ch 6 or B):	Conducted: 3.01 dBm
Power (ch 11 or C):	Conducted: 2.48 dBm
Mode C (802.11n 20 MHz)	
Power (ch 1 or A):	Conducted: 3.73 dBm
Power (ch 6 or B):	Conducted: 3.01 dBm
Power (ch 11 or C):	Conducted: 2.37 dBm
Mode D (Bluetooth Low Energy mode)	
Power (ch 0 or A):	Conducted: 0.05 dBm
Power (ch 19 or B):	Conducted: 0.16 dBm
Power (ch 39 or C):	Conducted: 0.18 dBm
Manufacturer: (if applicable)	
Name:	./.
Street:	./.
Town:	./.
Country:	./.

1.6 Test standards

Technical standard : FCC RULES PART 15 SUBPART C § 15.247 (2017-10)

2 Technical test

2.1 Summary of test results

No deviations from the technical specification(s) were ascertained in the course of the tests performed. ☒

or

The deviations as specified in 2.5 were ascertained in the course of the tests performed. ☐

2.2 Test environment

Relative humidity content: 20 ... 75 %

Air pressure: 86 ... 103 kPa

Power supply: USB 5 Vd.c.
Battery: 3.7 Vd.c., 3.15 Wh for Aero 60
Battery: 3.7 Vd.c., 3.145 Wh for Rider 450

Extreme conditions parameters: ./.

Test item Name	Uncertainty
Estimation Result of Uncertainty of Conducted Emission	Expanded Uncertainty：1.54 dB
Estimation Result of Uncertainty of Radiated Emission(3M)	Expanded Uncertainty： 0.009-30 MHz：2.17 dB 30-1000 MHz：3.57 dB 1-18 GHz：2.60 dB 18-40 GHz：2.58 dB
Estimation Result of Uncertainty of Bandwidth Measurement 20 dB Bandwidth, Occupied bandwidth, Channel bandwidth, Necessary Bandwidth	Expanded Uncertainty：0.45 kHz
Estimation Result of Uncertainty of Conducted Output Power Measurement Output power	Expanded Uncertainty：1.01 dB
Estimation Result of Uncertainty of Power Density Measurement Power density	Expanded Uncertainty：1.73 dB
Estimation Result of Uncertainty of Band Edge Measurement	Expanded Uncertainty：0.98 dBc

2.3 Test Equipment List

No.	Test equipment	Type	Serial No.	Manufacturer	Cal. Date	Next Cal. Date
ETSTW-CE 001	EMI TEST RECEIVER	ESHS10	842121/013	R&S	2018/5/30	2019/5/29
ETSTW-CE 003	AC POWER SOURCE	APS-9102	D161137	GW	Function Test	
ETSTW-CE 004	ZWEILEITER-V-NETZNACHBILDUNG TWO-LINE V-NETWORK	ESH3-Z5	840731/011	R&S	2017/10/26	2018/10/25
ETSTW-CE 006	IMPULSBEGRENZER PULSE LIMITER	ESH3-Z2	100226	R&S	2017/8/22	2018/8/21
ETSTW-CE 008	HF-EICHLEITUNG RF STEP ATTENUATOR 139dB DPSP	334.6010.02	844581/024	R&S	Function Test	
ETSTW-CE 009	TEMP.&HUMIDITY CHAMBER	GTH-225-40-1P-U	MAA0305-009	GIANT FORCE	2017/7/14	2018/7/13
ETSTW-CE 016	TWO-LINE V-NETWORK	ENV216	100050	R&S	2017/8/31	2018/8/30
ETSTW-CE 028	MXE EMI Receiver	N9038A	MY53220110	Agilent	2017/7/11	2018/7/10
ETSTW-RE 003	EMI TEST RECEIVER	ESI 26	831438/001	R&S	2018/5/30	2019/5/29
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2018/5/21	2019/5/20
ETSTW-RE 005	EMI TEST RECEIVER	ESVS10	843207/020	R&S	2017/8/25	2018/8/24
ETSTW-RE 012	TUNABLE BANDREJECT FILTER	D.C 0309	146	K&L	Function Test	
ETSTW-RE 013	TUNABLE BANDREJECT FILTER	D.C 0336	397	K&L	Function Test	
ETSTW-RE 018	MICROWAVE HORN ANTENNA	AT4560	27212	AR	2017/7/4	2018/7/3
ETSTW-RE 027	Passive Loop Antenna	6512	00034563	ETS-Lindgren	2017/7/3	2018/7/2
ETSTW-RE 030	Double-Ridged Guide Horn Antenna	3117	00035224	ETS-Lindgren	2018/3/26	2019/3/25
ETSTW-RE 042	Biconical Antenna	HK116	100172	R&S	2018/1/23	2019/1/22
ETSTW-RE 043	Log-Periodic Dipole Antenna	HL223	100166	R&S	2018/4/13	2019/4/12
ETSTW-RE 044	Log-Periodic Antenna	HL050	100094	R&S	2018/4/26	2019/4/25
ETSTW-RE 045	ESA-E SERIES SPECTRUM ANALYZER	E4404B	MY45111242	Agilent	Pre-test Use	
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2018/3/1	2019/2/28
ETSTW-RE 051	Attenuator 6dB	50HF-006-1	None	JFW	2018/3/1	2019/2/28
ETSTW-RE 053	Attenuator 3dB	50HF-003-1	None	JFW	2018/3/1	2019/2/28
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2018/3/6	2019/3/5
ETSTW-RE 060	Attenuator 30dB	5015-30	F651012z-01	ATM	2018/3/1	2019/2/28
ETSTW-RE 062	Amplifier Module	CHC 2	None	KMIC	2018/3/30	2019/3/29
ETSTW-RE 064	Bluetooth Test Set	MT8852B-042	6K00005709	Anritsu	Function Test	
ETSTW-RE 069	Double-Ridged Guide Horn Antenna	3117	00069377	ETS-Lindgren	Function Test	
ETSTW-RE 072	CELL SITE TEST SET	8921A	3339A00375	HP	2017/9/11	2018/9/10
ETSTW-RE 088	SOLID STATE AMPLIFIER	KMA180265A01	99057	KMIC	2017/9/19	2018/9/18
ETSTW-RE 091	Match Pad	MDCS1500	None	WOKEN	2018/4/16	2019/4/15
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2018/2/23	2019/2/22

ETSTW-RE 112	AC POWER SOURCE	TFC-1005	T-0A023536	T-Power	Function test	
ETSTW-RE 115	2.4GHz Notch Filter	N0124411	473874	MICROWAVE CIRCUITS	2018/1/15	2019/1/14
ETSTW-RE 120	RF Player	MP9200	MP9210-111022	ADIVIC	Function test	
ETSTW-RE 122	SIGNAL GENERATOR	SMF100A	102149	R&S	2018/5/29	2019/5/28
ETSTW-RE 125	5GHz Notch filter	5NSL11-5200/E221.3-O/O	1	K&L Microwave	2017/8/9	2018/8/8
ETSTW-RE 126	5GHz Notch filter	5NSL12-5800/E221.3-O/O	1	K&L Microwave	2017/8/9	2018/8/8
ETSTW-RE 127	RF Switch Box	RFS-01	None	WTS	2018/2/27	2019/2/26
ETSTW-RE 128	5.3GHz Notch filter	N0153001	SN487233	Microwave Circuits	2017/8/9	2018/8/8
ETSTW-RE 129	5.5GHz Notch filter	N0555984	SN487234	Microwave Circuits	2017/8/9	2018/8/8
ETSTW-RE 130	Handheld RF Spectrum Analyzer	N9340A	CN0147000204	Agilent	Pre-test Use	
ETSTW-RE 142	Amplifier	8447D	2805A03378	Agilent	2018/3/30	2019/3/29
ETSTW-RE 147	Bi-log Hybrid Antenna	MCTD 2786B	BLB16M04005	ETC	2018/3/23	2019/3/22
ETSTW-RE 151	Thermohygrometer	608-h1	45104376	TESTO	2017/8/30	2018/8/29
ETSTW-EMI 011	USB Compact Modulator	SFC-U	101689	R&S	2018/5/10	2019/5/9
ETSTW-GSM 002	Universal Radio Communication Tester	CMU 200	109439	R&S	2018/2/27	2019/2/26
ETSTW-GSM 003	Radio Communication Analyzer	MT8820C	6201342073	Anritsu	2018/3/2	2019/3/1
ETSTW-GSM 004	Wideband Radio Communication Tester	CMW500	128092	R&S	2017/10/16	2018/10/15
ETSTW-GSM 019	Band Reject Filter	WRCTF824/849-822/851-40 /12+9SS	3	WI	2018/1/11	2019/1/10
ETSTW-GSM 020	Band Reject Filter	WRCD1747/1748-1743/1752-32/5SS	1	WI	2018/1/11	2019/1/10
ETSTW-GSM 021	Band Reject Filter	WRCD1879.5/1880.5-1875.5/1884.5-32/5SS	3	WI	2018/1/11	2019/1/10
ETSTW-GSM 022	Band Reject Filter	WRCT901.9/903.1-904.25-50/8SS	1	WI	2018/1/11	2019/1/10
ETSTW-GSM 023	Power Divider	4901.19.A	None	SUHNER	2017/9/13	2018/9/12
ETSTW-GSM 024	Radio Communication Analyzer	MT8821C	None	Anritsu	2018/3/7	2019/3/6
ETSTW-Cable 011	SMA to N type Cable	RGU-400	None	THERMAX	Pre-test Use NCR	
ETSTW-Cable 016	BNC Cable	Switch Box	B Cable 1	Schwarz beck	2018/2/22	2019/2/21
ETSTW-Cable 017	BNC Cable	X Cable	B Cable 2	Schwarz beck	2018/2/22	2019/2/21
ETSTW-Cable 018	BNC Cable	Y Cable	B Cable 3	Schwarz beck	2018/2/22	2019/2/21
ETSTW-Cable 019	BNC Cable	Z Cable	B Cable 4	Schwarz beck	2018/2/22	2019/2/21
ETSTW-Cable 020	N TYPE Cable	OATS Cable 1	N30N30-L335-15M	JYE BAO CO.,LTD.	2017/7/3	2018/7/2
ETSTW-Cable 026	Microwave Cable	SUCOFLEX 104	279075	HUBER+SUHNER	2018/2/27	2019/2/26
ETSTW-Cable 027	Microwave Cable	SUCOFLEX 104	279083	HUBER+SUHNER	2018/5/9	2019/5/8
ETSTW-Cable 028	Microwave Cable	FA147A0015M2020	30064-2	UTIFLEX	2017/9/7	2018/9/6
ETSTW-Cable 029	Microwave Cable	FA147A0015M2020	30064-3	UTIFLEX	2017/9/7	2018/9/6
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104（S_Cable 9）	279067	HUBER+SUHNER	2018/2/27	2019/2/26
ETSTW-Cable 031	Microwave Cable	SUCOFLEX 104（S_Cable 10）	238092	HUBER+SUHNER	2018/3/30	2019/3/29

ETSTW-Cable 043	Microwave Cable	SUCOFLEX 104	317576	HUBER+SUHNER	2018/3/30	2019/3/29
ETSTW-Cable 048	Microwave Cable	SUCOFLEX 104	325519	HUBER+SUHNER	2018/3/30	2019/3/29
ETSTW-Cable 058	Microwave Cable	SUCOFLEX 104	none	HUBER+SUHNER	2018/6/9	2019/6/8
ETSTW-Cable 064	Microwave Cable	SUCOFLEX 104	MY28891	HUBER+SUHNER	2018/3/30	2019/3/29
ETSTW-Cable 066	SMA type cable	32022	None	ASTROLAB	2017/8/31	2018/8/30
ETSTW-Cable 071	N TYPE CABLE	EMCCFD400-NM-NM-25000	170239	EMCI	2018/6/9	2019/6/8
WTSTW-SW 002	EMI TEST SOFTWARE	EZ_EMC	None	Farad	Version ETS-03A1	
WTSTW-SW 006	EMI TEST SOFTWARE	e3	None	AUDIX	Version 9.161014	
WTSTW-SW 008	Signal studio	Agilent	None	AUDIX	Version 2.0.0.1	

2.4 General Test Procedure

POWER LINE CONDUCTED INTERFERENCE: The procedure used was ANSI STANDARD C63.10-2013 6.2 using a 50µH LISN (if necessary). Both lines were observed. The bandwidth of the spectrum analyzer was 10 kHz with an appropriate sweep speed.

RADIATION INTERFERENCE: The test procedure used was according to ANSI STANDARD C63.10-2013 6.3 employing a spectrum analyzer. For investigated frequency is equal to or below 1GHz, the RBW and VBW of the spectrum analyzer was 100 kHz and 100kHz respectively with an appropriate sweep speed. For investigated frequency is above 1GHz, both of RBW and VBW of the spectrum analyzer were 1 MHz with an appropriate sweep speed. The analyzer was calibrated in dB above a microvolt at the output of the antenna.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBµV) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB.

Example:

Freq (MHz)	METER READING + ACF + CABLE LOSS (to the receiver) = FS
33	20 dBµV + 10.36 dB + 6 dB = 36.36 dBµV/m @3m

The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m (non metallic table) and arranged according to ANSI C63.10-2013 6.2.2. The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to the frequency specified as follows:

(1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
(2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.
(3) If the intentional radiator operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.
(4) If the intentional radiator contains a digital device, regardless of whether this digital device controls the functions of the intentional radiator or the digital device is used for additional control or function purposes other than to enable the operation of the intentional radiator, the frequency range shall be investigated up to the range specified in paragraphs (a)(1)-(a)(3) of this section or the range applicable to the digital device, as shown in paragraph (b)(1) of this Section, whichever is the higher frequency range of investigation.

For hand-held devices, a exploratory test was performed with three (3) orthogonal planes to determine the highest emissions.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

When the radiated emission limits are expressed in terms of the average value of the emission, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.

The formula is as follows:
Average = Peak + Duty Factor
Duty Factor = 20 log (dwell time/T)
T = 100ms when the pulse train period is over 100 ms or the period of the pulse train.

Modified Limits for peak according to 15.35 (b) = Max Permitted average Limits + 20dB

ANSI STANDARD C63.10-2013 B.2.7: Any measurements that utilize special test software shall be indicated and referenced in the test report. During testing, test software ’EZ EMC’ was used for setting up different operation modes.

3 Test results (enclosure)

TEST CASE	Para. Number	Required	Test passed	Test failed
Peak Output Power	15.247(b)	☒	☒	☐
Equivalent isotropically radiated Power	15.247(b)	☒	☒	☐
Spurious Emissions radiated – Transmitter operating	15.247(c): 15.209	☒	☒	☐
Band Edge Measurement	15.247(d)	☒	☒	☐
Minimum 6 dB Bandwidth	15.247(a)(2)	☒	☒	☐
Peak Power Spectral Density	15.247(e)	☒	☒	☐
Radiated Emission from Receiver Part	15.109	☐	☐	☐
Power Line Conducted Emission	15.207	☒	☒	☐

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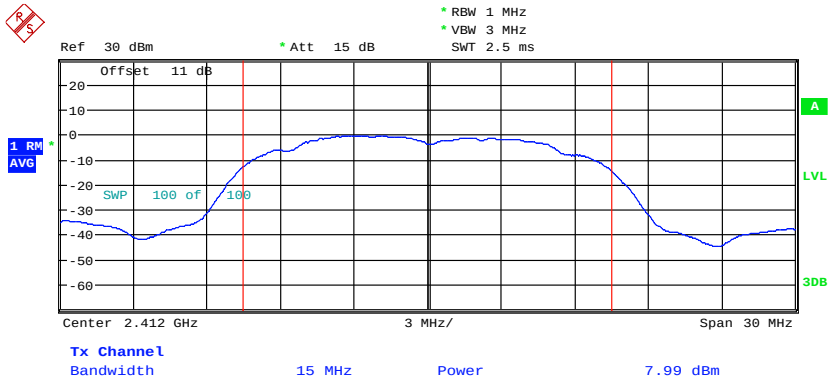
3.1 Peak Output Power (transmitter)

FCC Rule: 15.247(b)(3)

This measurement applies to equipment with an integral antenna and to equipment with an antenna connector and equipped with an antenna as declared by the applicant.

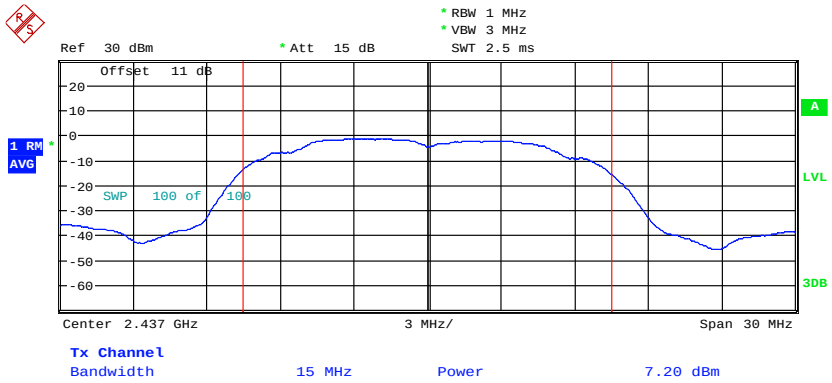
The power was measured with modulation (declared by the applicant).

Mode A

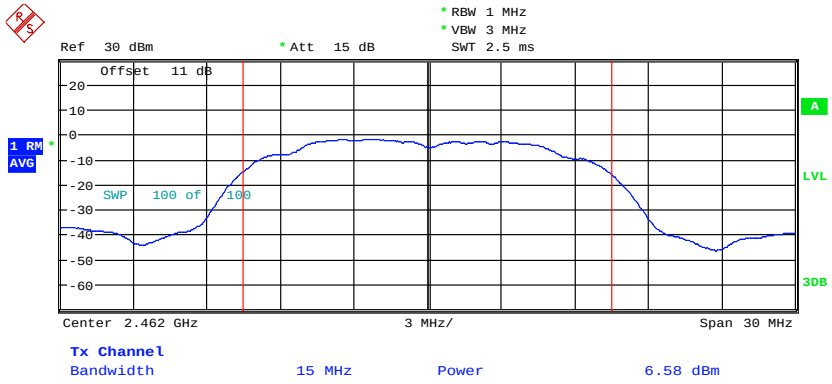


MAX OUTPUT POWER 802.11B CH01
Date: 13.JUN.2018 13:49:19

Registration number: W6M21806-18161-C-1
FCC ID: YDM-EA1703

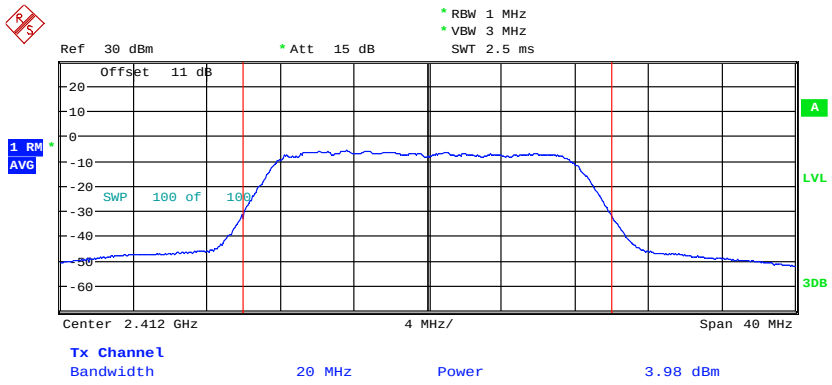


MAX OUTPUT POWER 802.11B CH06
Date: 13.JUN.2018 13:50:00

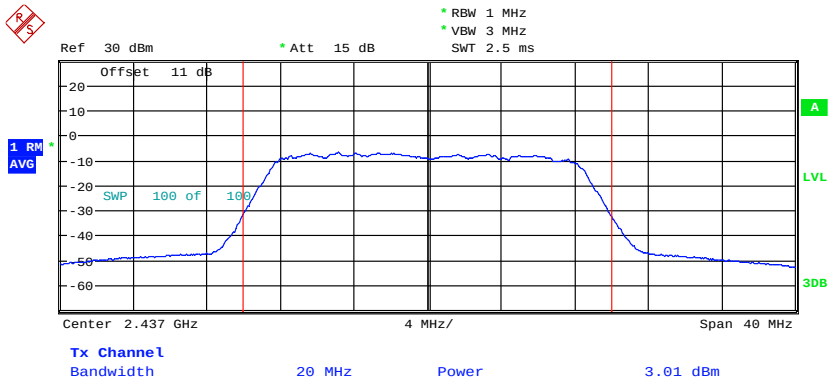


MAX OUTPUT POWER 802.11B CH11
Date: 13.JUN.2018 13:50:40

Registration number: W6M21806-18161-C-1
FCC ID: YDM-EA1703
Mode B

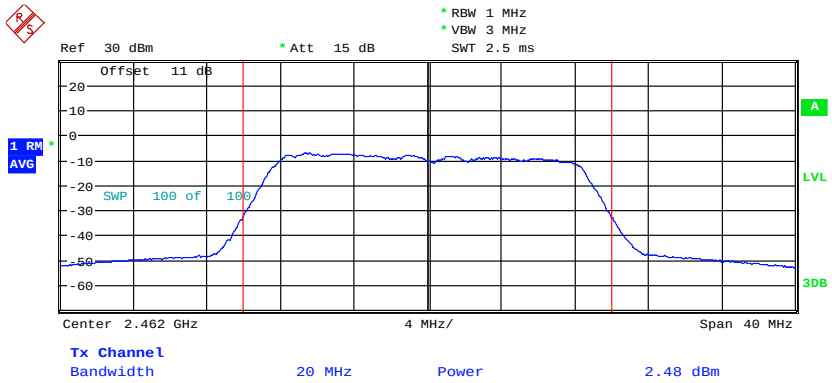


MAX OUTPUT POWER 802.11G CH01
Date: 13.JUN.2018 13:52:00



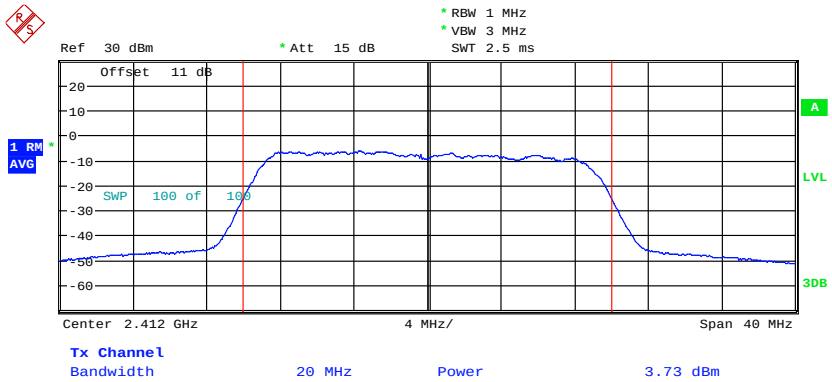
MAX OUTPUT POWER 802.11G CH06
Date: 13.JUN.2018 13:52:40

Registration number: W6M21806-18161-C-1
FCC ID: YDM-EA1703



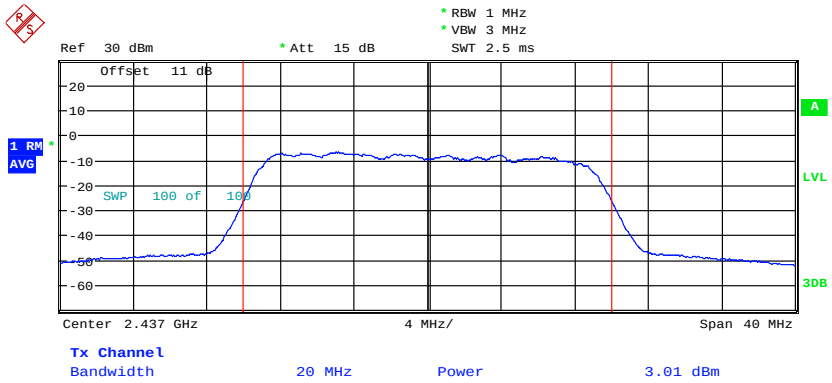
MAX OUTPUT POWER 802.11G CH11
Date: 13.JUN.2018 13:53:27

Mode C

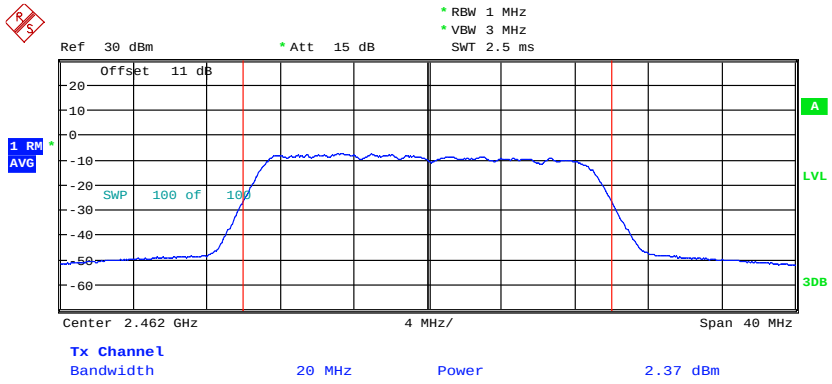


MAX OUTPUT POWER 802.11N 20MHZ CH1
Date: 13.JUN.2018 13:54:31

Registration number: W6M21806-18161-C-1
FCC ID: YDM-EA1703

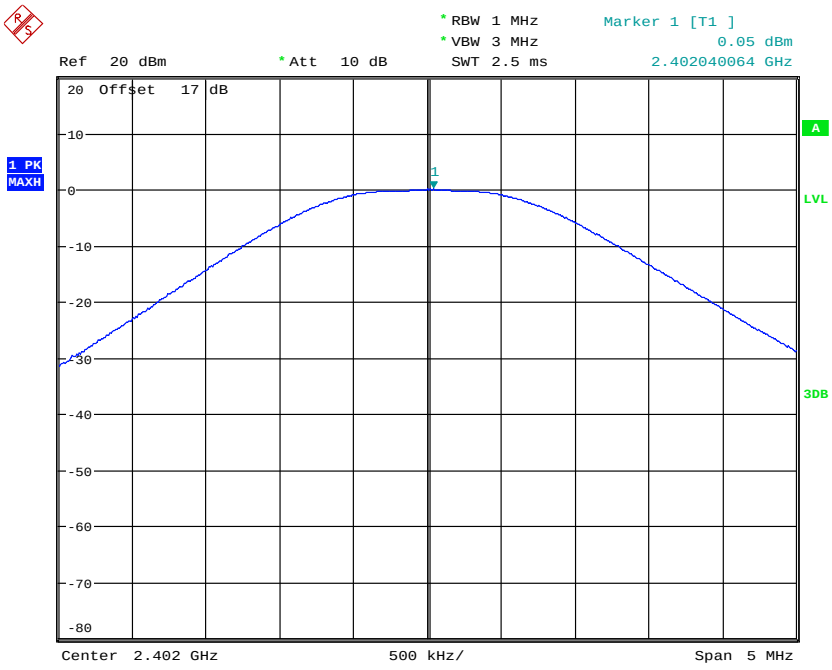


MAX OUTPUT POWER 802.11N 20MHZ CH6
Date: 13.JUN.2018 13:55:08

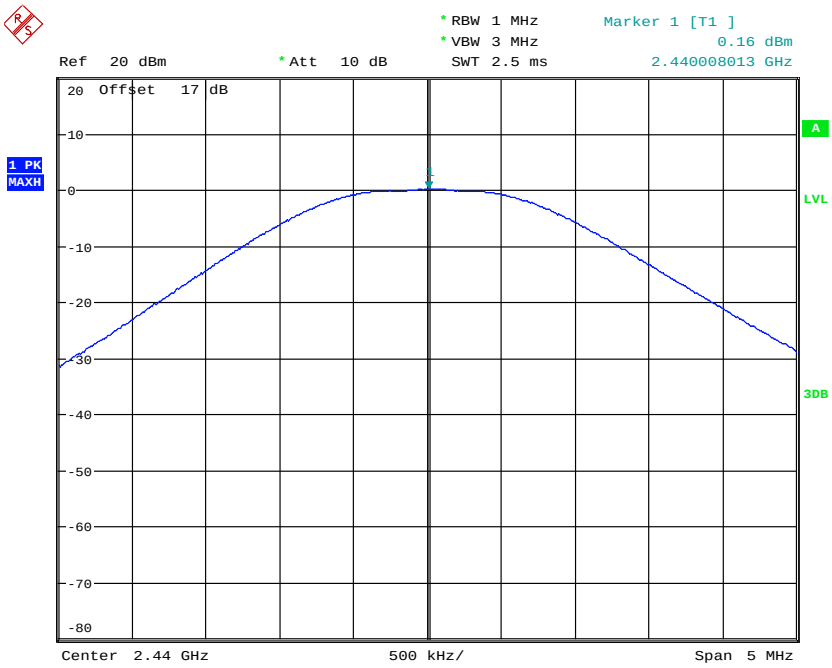


MAX OUTPUT POWER 802.11N 20MHZ CH11
Date: 13.JUN.2018 13:56:08

Registration number: W6M21806-18161-C-1
FCC ID: YDM-EA1703
Mode D

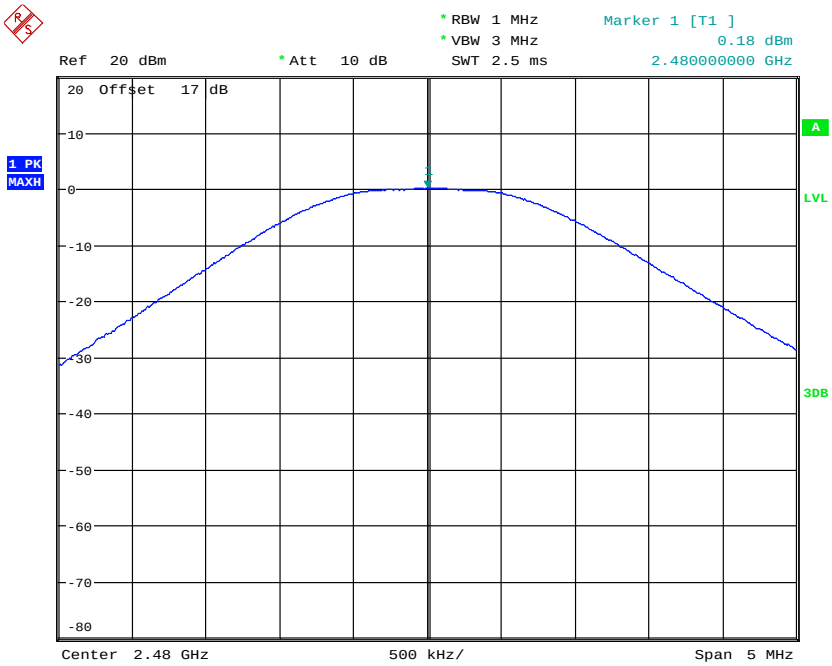


MAX OUTPUT POWER BT4.0 CH00
Date: 13.JUN.2018 14:11:02



MAX OUTPUT POWER BT4.0 CH19
Date: 13.JUN.2018 14:12:40

Registration number: W6M21806-18161-C-1
FCC ID: YDM-EA1703



MAX OUTPUT POWER BT4.0 CH39
Date: 13.JUN.2018 14:14:04

Limits:

Frequency MHz	Power dBm
902 - 928	30
2400 – 2483.5	30
5725 – 5850	30

In case of employing transmitter antennas having antenna gain ＞ 6 dBi and using fixed point-to point operation consider §15.247 (b)(4)

Test equipment used: ETSTW-RE 055, ETSTW-RE 050, ETSTW-RE 064

3.2 Equivalent isotropic radiated power

FCC Rule: 15.247(b)(3)
Test exclusion = max. conducted output power
Test exclusion = 7.99 dBm

3.3 RF Exposure Compliance Requirements

FCC OET Bulletin 65 Edition 97.01 determines the equations for predicting RF fields and applicable limits.
The prediction for power density in the far-field but will over-predict power density in the near field, where it could be used for walking a "worst case" or conservative prediction.

$$S = \frac{PG}{4\pi R^2}$$

S – Power Density
P – Output power ERP
R – Distance
D – Cable Loss
AG – Antenna Gain

Item	Unit	Value	**Remarks**
P	mW	6.2951	Peak value
D	dB		
AG	dBi	2	
G		1.58	Calculated Value
R	cm	20	Assumed value
S	mW/cm^2	0.00198	Calculated value

Limits:

Limit for General Population / Uncontrolled Exposure	
Frequency (MHz)	Power Density (mW/cm^2)
1500 – 100.000	1.0

3.4 Transmitter Radiated Emissions in Restricted Bands

FCC Rules: 15.247 (c), 15.205, 15.209, 15.35
Radiated emission measurements were performed from 30 MHz to 26500 MHz.
For radiated emission tests, the analyzer setting was as followings:

Frequency ≦ 1 GHz, RBW:100 kHz, VBW: 100 kHz (Peak measurements)
Frequency ＞1 GHz, RBW: 1 MHz, VBW: 1 MHz (Peak measurements)
Frequency ＞1 GHz , RBW:1 MHz , VBW: 10 Hz (Average measurements)

Limits.

For frequencies below 1GHz:

Frequency of Emission (MHz)	Field strength (microvolts/meter)	Field Strength (dB microvolts/meter)
30 - 88	100	40.0
88 - 216	150	43.5
216 - 960	200	46.0
Above	500	54.0

For frequencies above 1GHz (Average measurements).

Guidance on Measurement of Digit Transmission Systems:
“If the emission is pulsed, modify the unit for continuous operation, use the setting shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation.”

The correction factor, based on the total channel dwell time in a 100 ms period, may be mathematically applied to a measurement made with an average detector, to further reduce the value.

Duty cycle correction = 20 log (dwell time/ 100ms)

Note: No duty cycle correction was added to the reading of this EUT.

Explanation: see attached diagrams in Appendix.

3.5 Spurious Emissions (tx)

Spurious emission was measured with modulation (declared by manufacturer).

In any 100 kHz bandwidth outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c))

FCC Rule: 15.247(c), 15.35
For out of band emissions that are close to or that exceed the 20 dB attenuation requirement described in the specification, radiated measurements were performed at a 3 m separation distance to determine whether these emissions complied with the general radiated emission requirement.

Limits:

For frequencies above 1GHz (Peak measurements).
Modified Limit for peak according to 15.35 (b) = Max Permitted average Limits + 20dB

For frequencies above 1GHz (Average measurements).
Max. reading – 20dB

Max. reading – 20 dB
Guidance on Measurement of Digit Transmission Systems:
“If the emission is pulsed, modify the unit for continuous operation, use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation.”

The correction factor, based on the total channel dwell time in a 100 ms period, may be mathematically applied to a measurement made with an average detector, to further reduce the value.

Duty Cycle correction = 20 log (dwell time/100ms)

Note: No duty cycle correction was added to the reading of EUT.

SAMPLE CALCULATION OF LIMIT. All results will be updated by an automatic measuring system in accordance with point 2.3.

Calculation of test results:
Such factors like antenna correction, cable loss, external attenuation etc. are already included in the provided measurement results. This is done by using validated test software and calibrated test system according the accreditation requirements.

The peak and average spurious emission plots was measured with the average limits.
In the Table being listed the critical peak and average value and exhibit the compliance with the above calculated Limits.

If in the column's correction factor states a value then the max. Field strength in the same row is corrected by a value gained from the "Correction Factor".

Summary table with radiated data of the test plots

Model: Aero 60 Date: --
Mode: -- Temperature: -- °C Engineer: --
Polarization: Horizontal Humidity: -- %

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--

Frequency (MHz)	Reading (dBuV)		Factor (dB)	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.			
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--

Note

1. **Correction Factor = Antenna factor + Cable loss - Preamplifier**
2. **The formula of measured value as: Test Result = Reading + Correction Factor**
3. **Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average**
4. **All not in the table noted test results are more than 20 dB below the relevant limits.**
5. **Measurement uncertainty for 3m measurement: 30-1000 MHz = ±3.57 dB, 1-18 GHz = ± 2.60 dB, 18-40 GHz= ± 2.58 dB ; Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.**
6. **See attached diagrams in appendix.**

TEST RESULT (Transmitter): The unit DOES meet the FCC requirements.

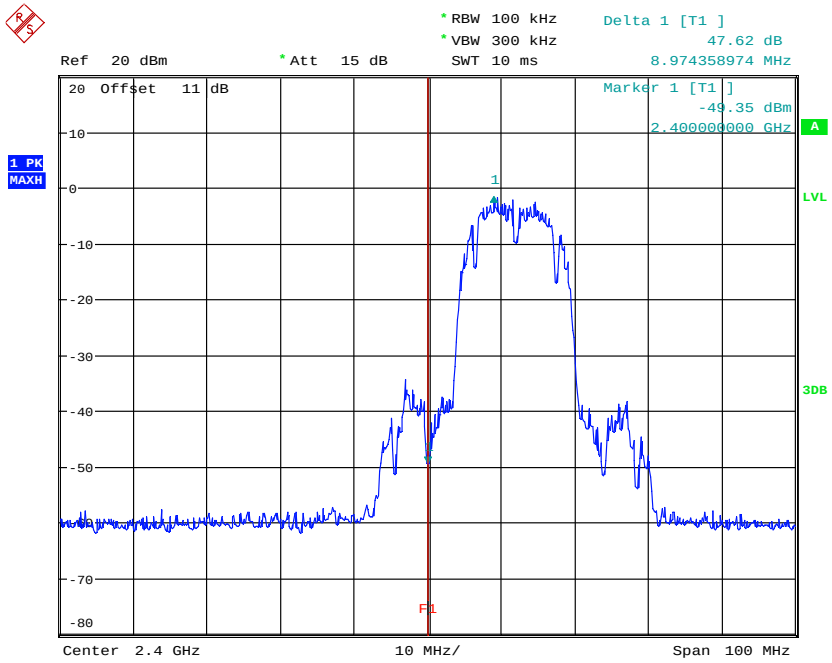
Test equipment used: ETSTW-RE 030, ETSTW-RE 111, ETSTW-RE 088, ETSTW-RE 018, ETSTW-RE 064

3.6 Radiated Emission on the band edge

According to FCC rules part 15 subpart C §15.247(d) in any 100 kHz bandwidth outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in § 15.209(a) is not required.

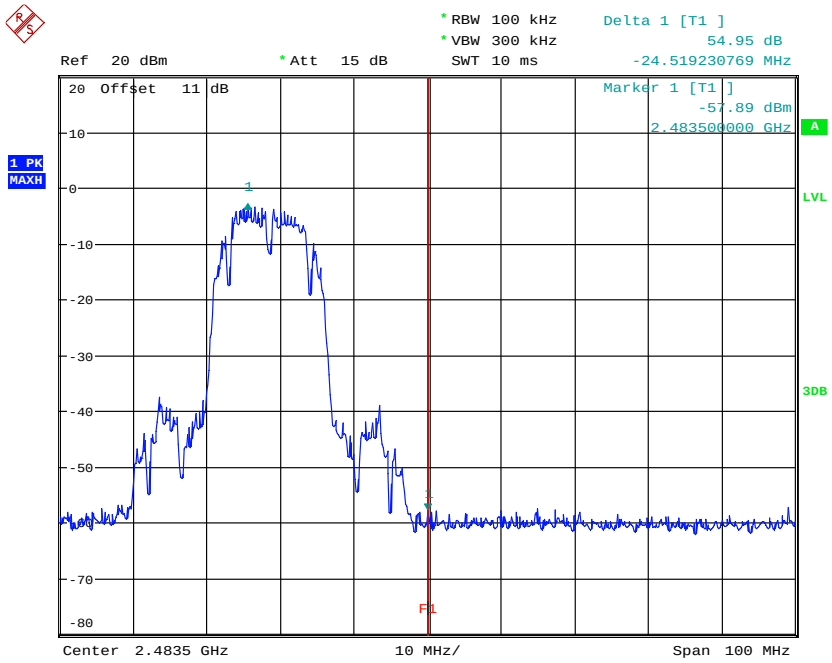
In addition radiated emission which fall in the restricted bands, as defined in section 15.205(a), must also with the radiated emission limits.

Mode A



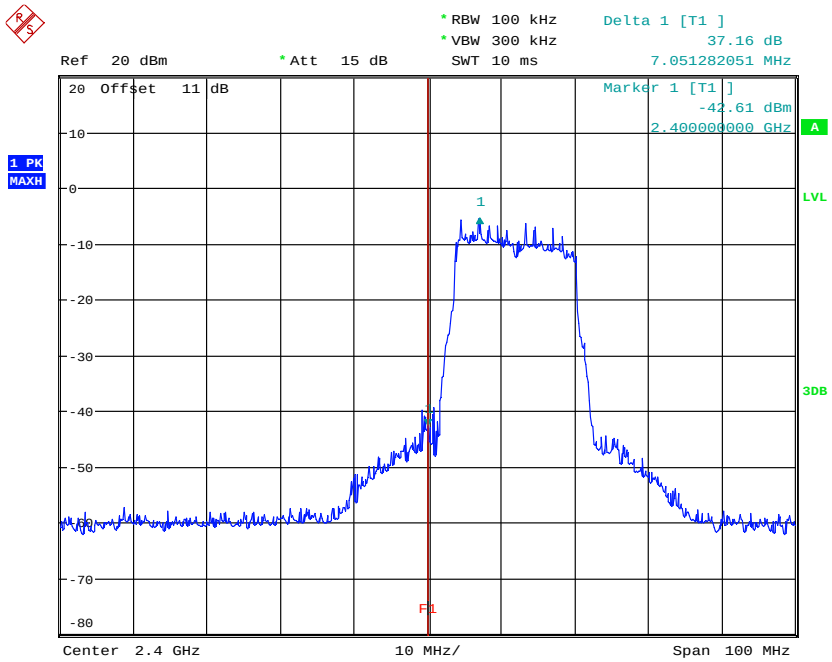
BANDEDGE 802.11B CH01
Date: 13.JUN.2018 13:49:37

Registration number: W6M21806-18161-C-1
FCC ID: YDM-EA1703



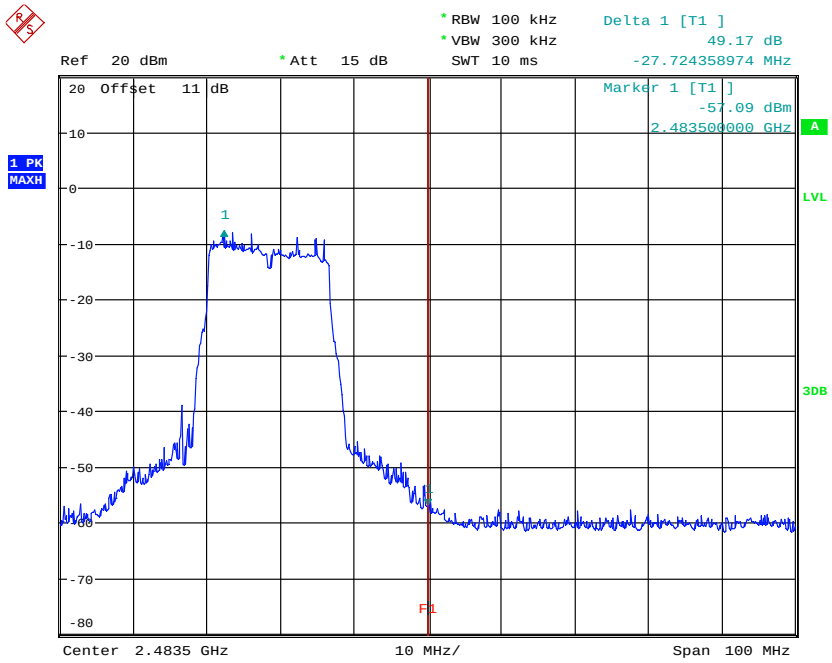
BANDEDGE 802.11B CH11
Date: 13.JUN.2018 13:50:58

Mode B



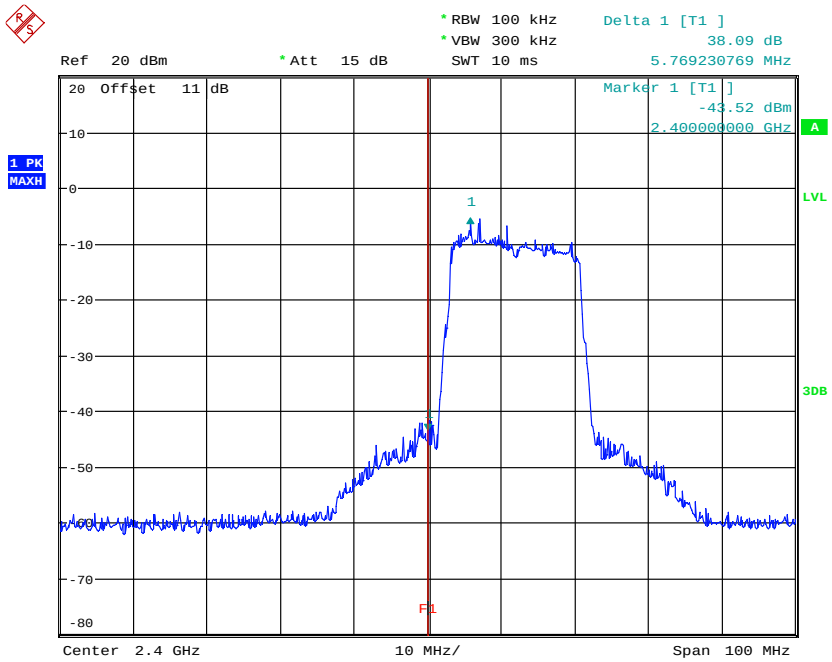
BANDEDGE 802.11G CH01
Date: 13.JUN.2018 13:52:18

Registration number: W6M21806-18161-C-1
FCC ID: YDM-EA1703



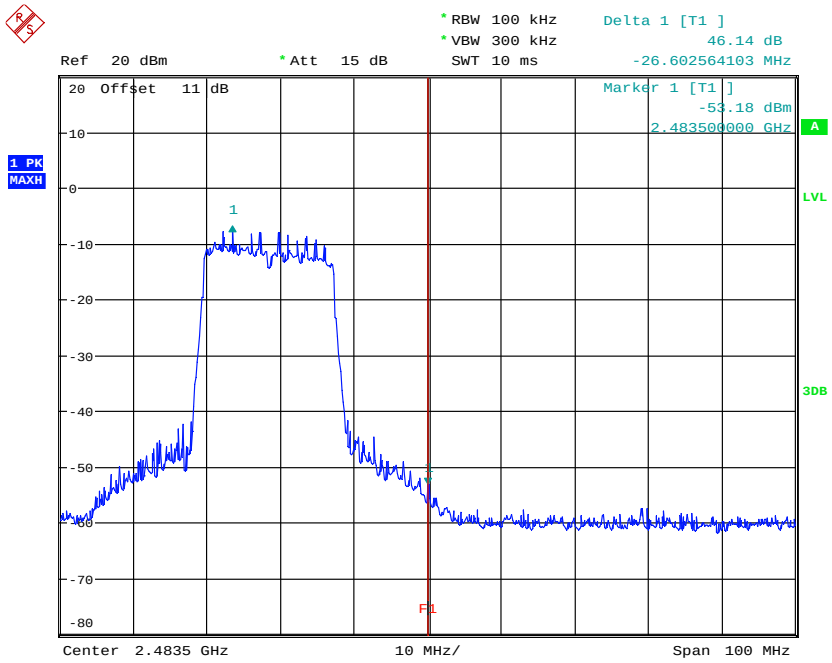
BANDEDGE 802.11G CH11
Date: 13.JUN.2018 13:53:45

Mode C



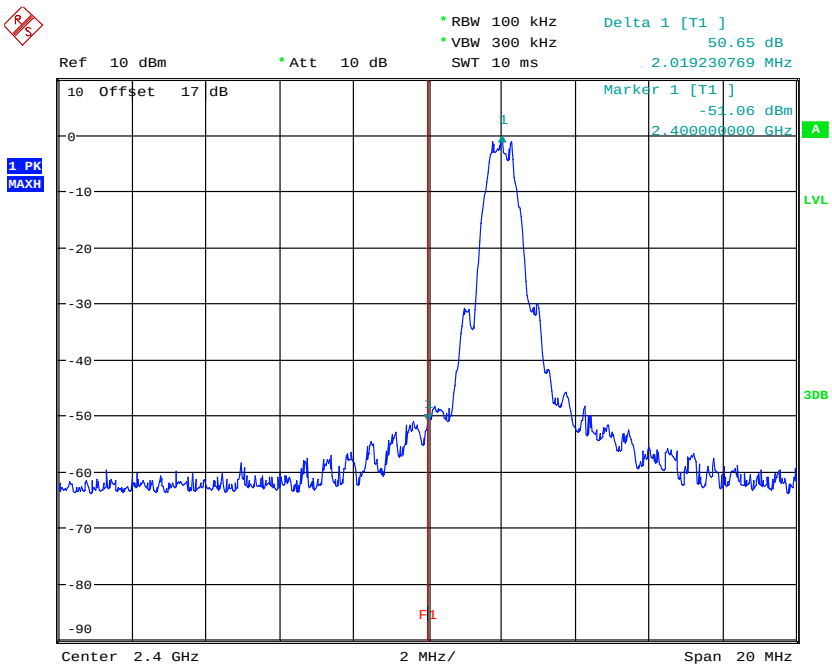
BANDEDGE 802.11N 20MHZ CH01
Date: 13.JUN.2018 13:54:49

Registration number: W6M21806-18161-C-1
FCC ID: YDM-EA1703



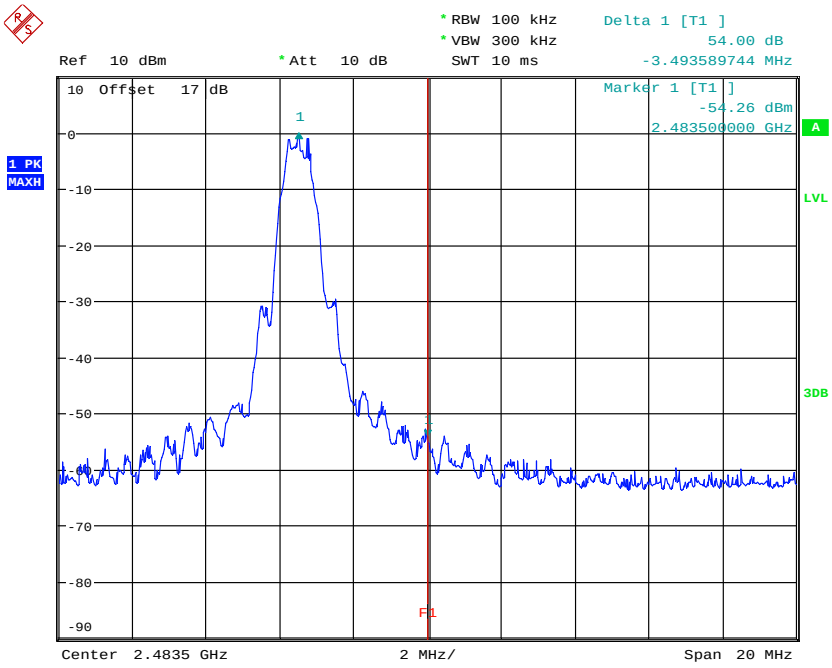
BANDEDGE 802.11N 20MHZ CH11
Date: 13.JUN.2018 13:56:26

Mode D



BANDEDGE BT4.0 CH00
Date: 13.JUN.2018 14:11:30

Registration number: W6M21806-18161-C-1
FCC ID: YDM-EA1703



BANDEDGE BT4.0 CH39
Date: 13.JUN.2018 14:14:32

Limit:

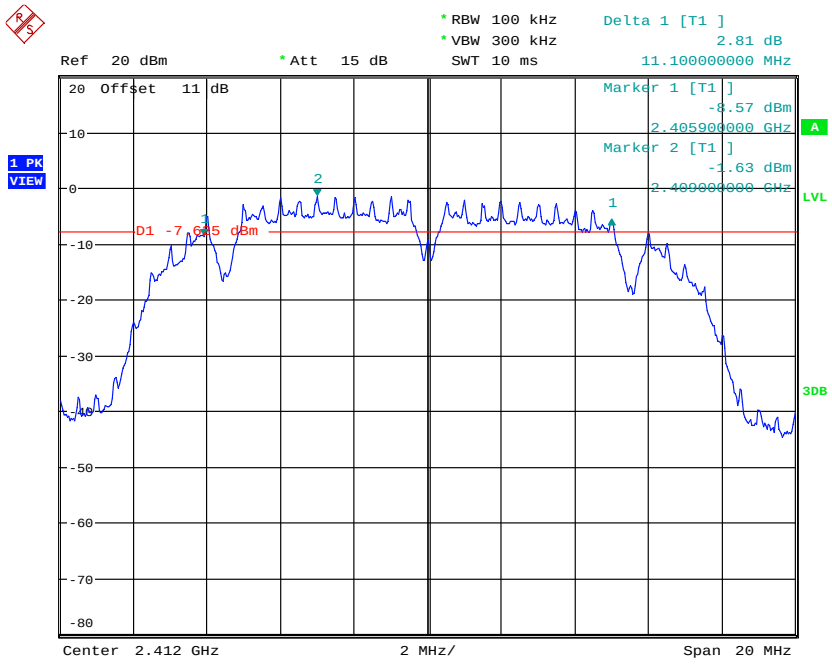
Frequency Range / MHz	Limit
902 –928 2400 – 2483.5 5725 - 5850	- 20 dB

Test equipment used: ETSTW-RE 055, ETSTW-RE 050

3.7 Minimum 6 dB Bandwidth

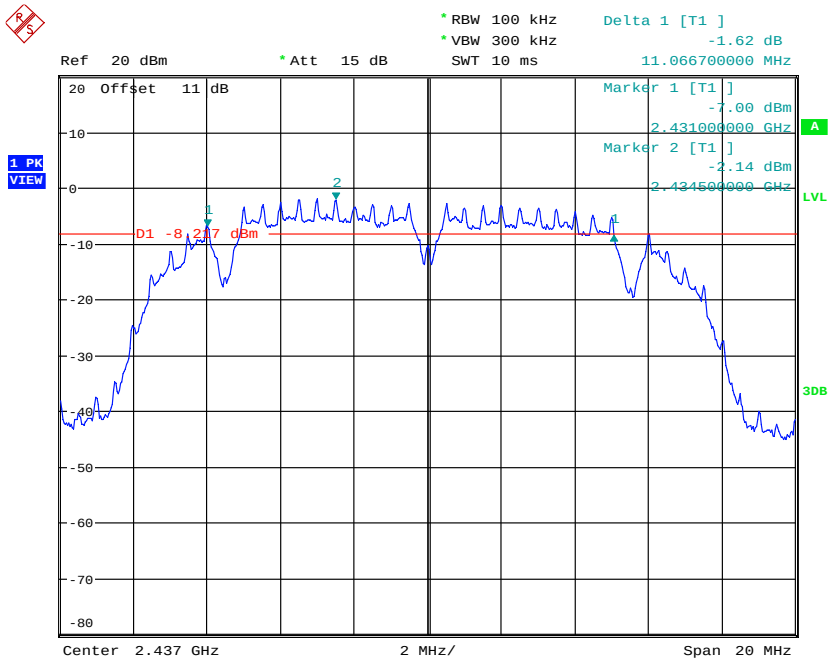
The analyzer ResBW was set to 100 kHz. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A PEAK reading was taken, two markers were set 6 dB below the maximum level on the right and the left side of the emission.
The 6 dB bandwidth is the frequency difference between the two markers.

Mode A

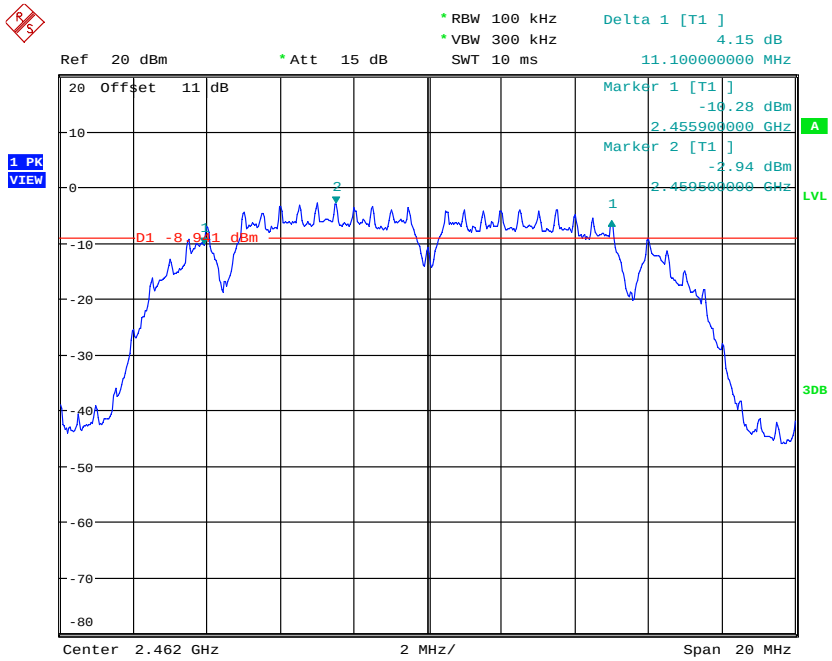


6DB BANDWIDTH 802.11B CH01
Date: 13.JUN.2018 13:49:25

Registration number: W6M21806-18161-C-1
FCC ID: YDM-EA1703

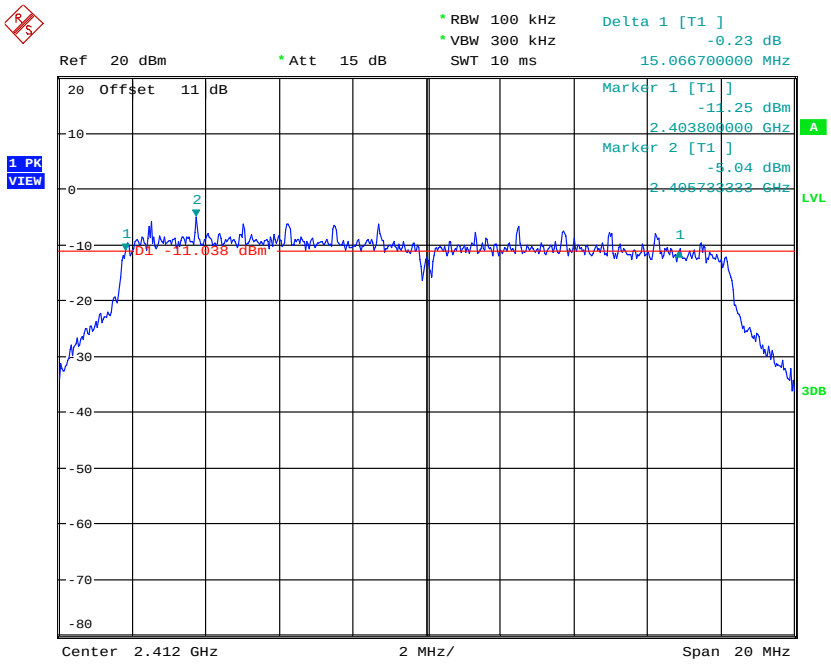


6DB BANDWIDTH 802.11B CH06
Date: 13.JUN.2018 13:50:06

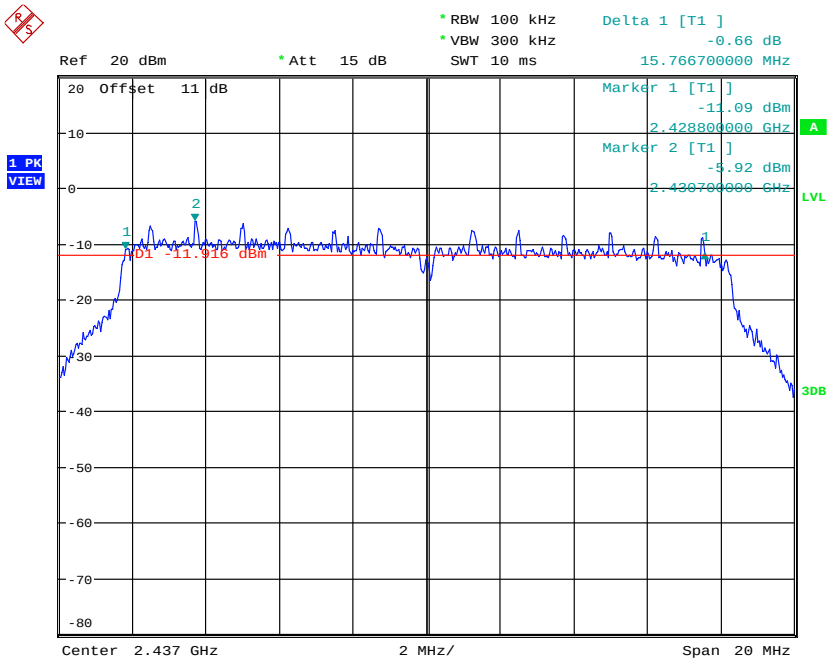


6DB BANDWIDTH 802.11B CH11
Date: 13.JUN.2018 13:50:46

Registration number: W6M21806-18161-C-1
FCC ID: YDM-EA1703
Mode B

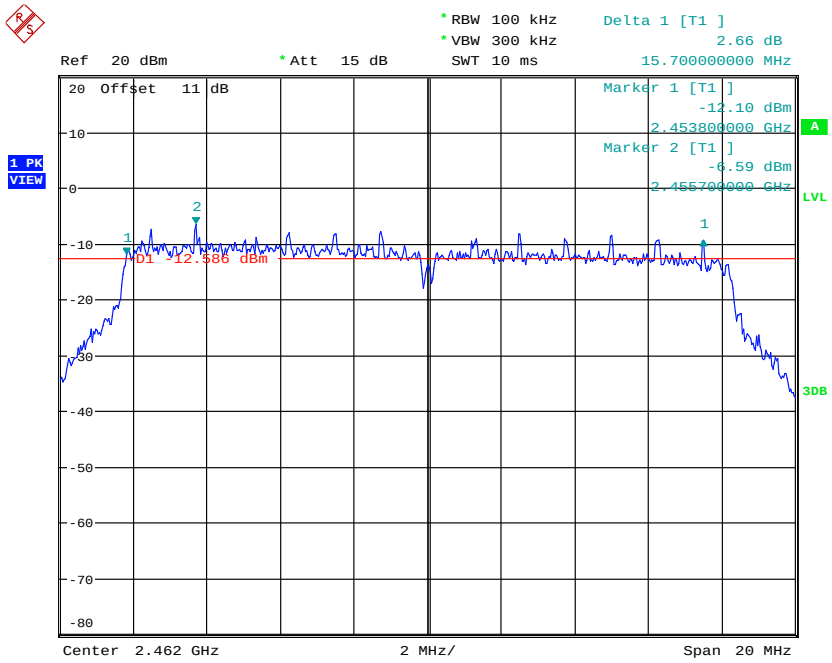


6DB BANDWIDTH 802.11G CH01
Date: 13.JUN.2018 13:52:06



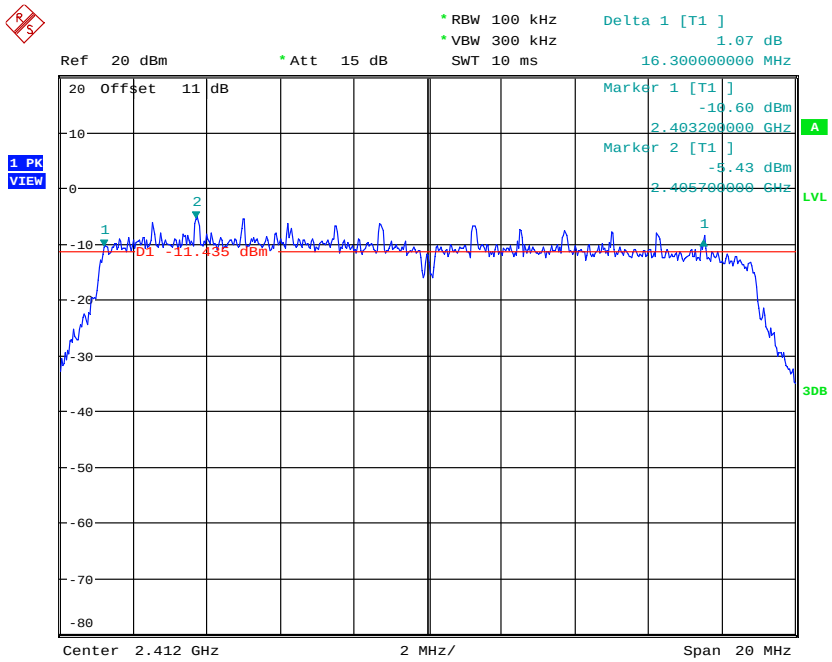
6DB BANDWIDTH 802.11G CH06
Date: 13.JUN.2018 13:52:46

Registration number: W6M21806-18161-C-1
FCC ID: YDM-EA1703



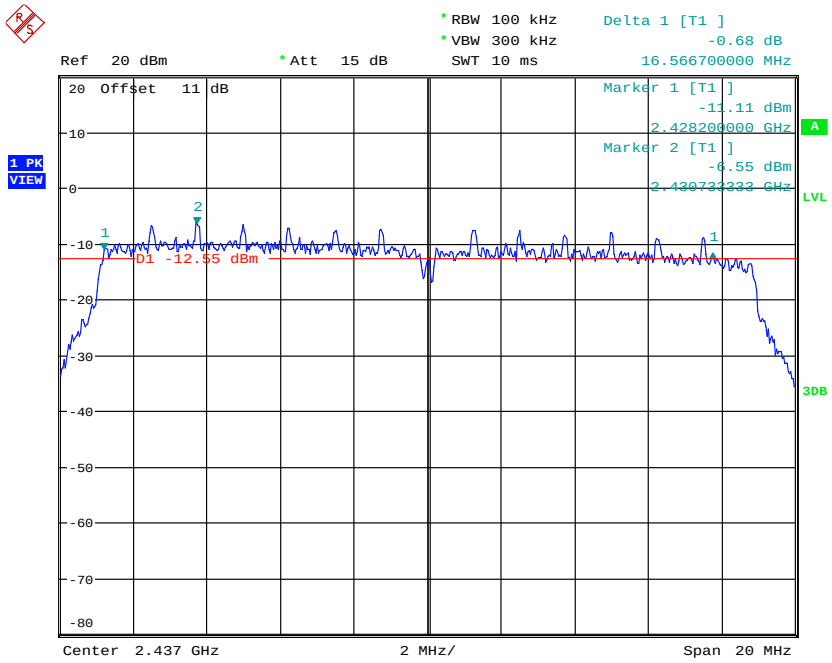
6DB BANDWIDTH 802.11G CH11
Date: 13.JUN.2018 13:53:33

Mode C

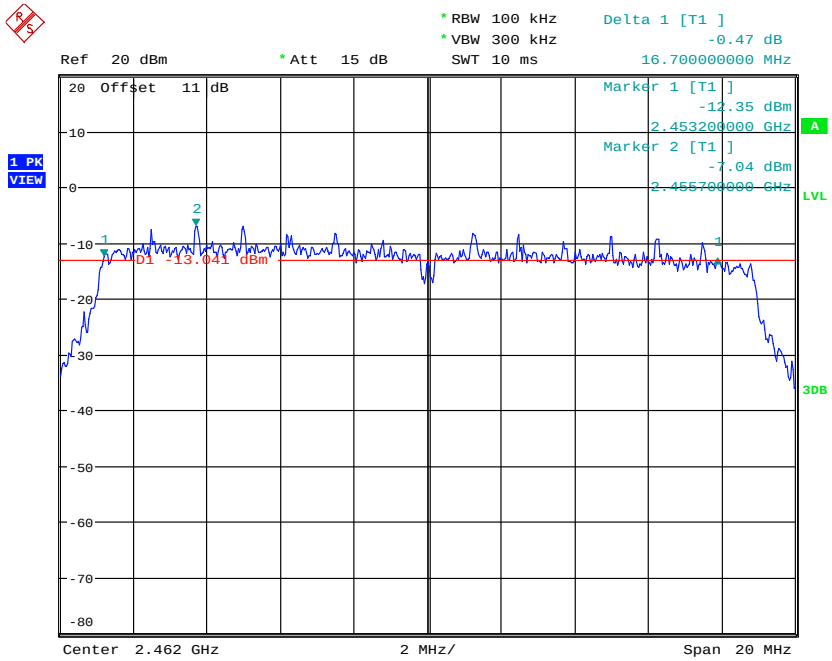


6DB BANDWIDTH 802.11N 20MHZ CH1
Date: 13.JUN.2018 13:54:37

Registration number: W6M21806-18161-C-1
FCC ID: YDM-EA1703

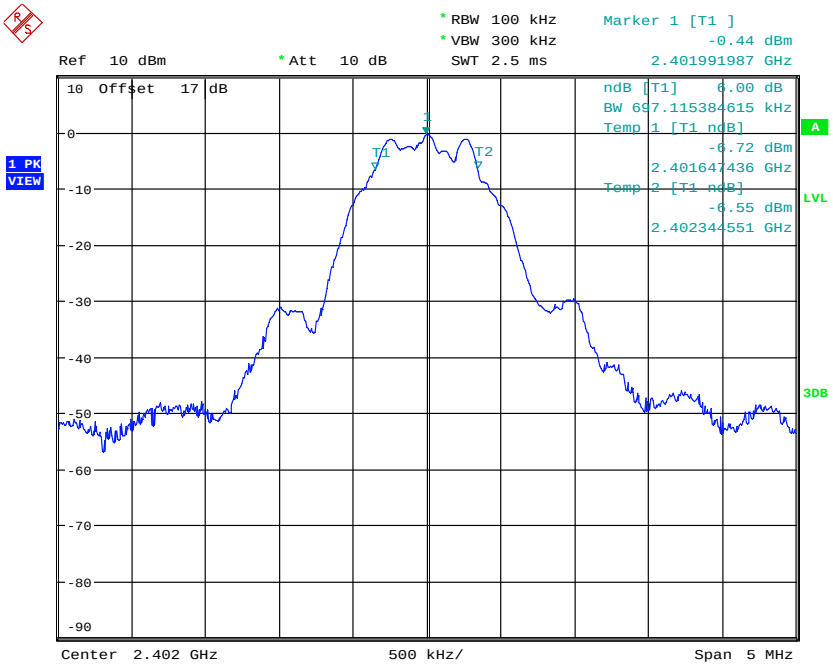


6DB BANDWIDTH 802.11N 20MHZ CH6
Date: 13.JUN.2018 13:55:14



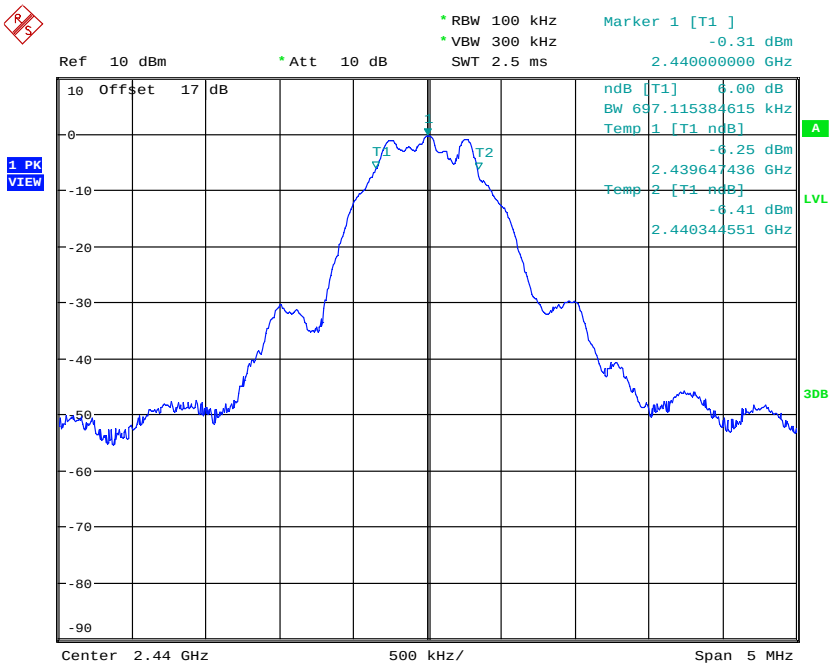
6DB BANDWIDTH 802.11N 20MHZ CH11
Date: 13.JUN.2018 13:56:14

Registration number: W6M21806-18161-C-1
FCC ID: YDM-EA1703
Mode D



6DB BANDWIDTH BT4.0 CH00

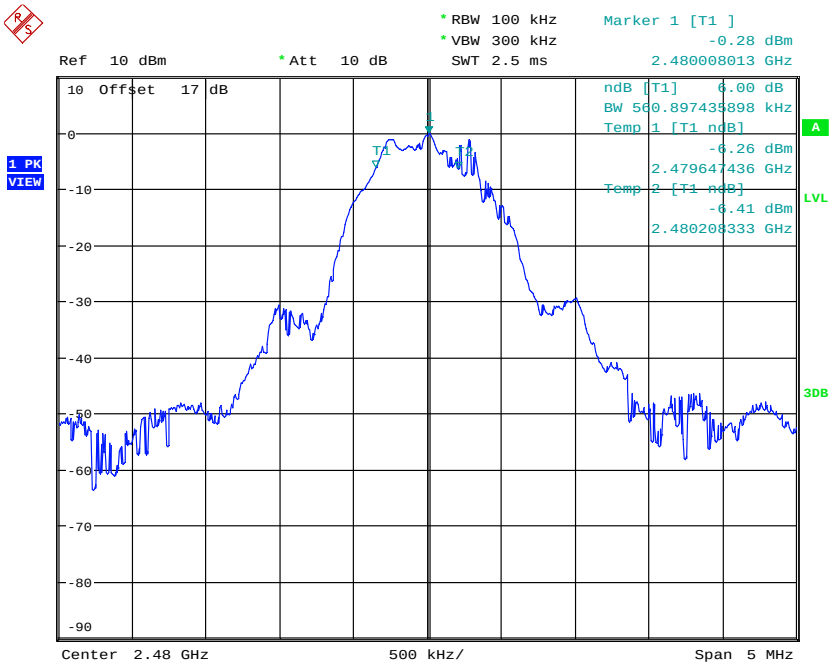
Date: 13.JUN.2018 14:11:12



6DB BANDWIDTH BT4.0 CH19

Date: 13.JUN.2018 14:12:50

Registration number: W6M21806-18161-C-1
FCC ID: YDM-EA1703



6DB BANDWIDTH BT4.0 CH39
Date: 13.JUN.2018 14:14:14

Limits:

Frequency Range MHz	**Limits**
902-928	min 500 kHz
2400-2483.5	min 500 kHz
5725-5850	min 500 kHz

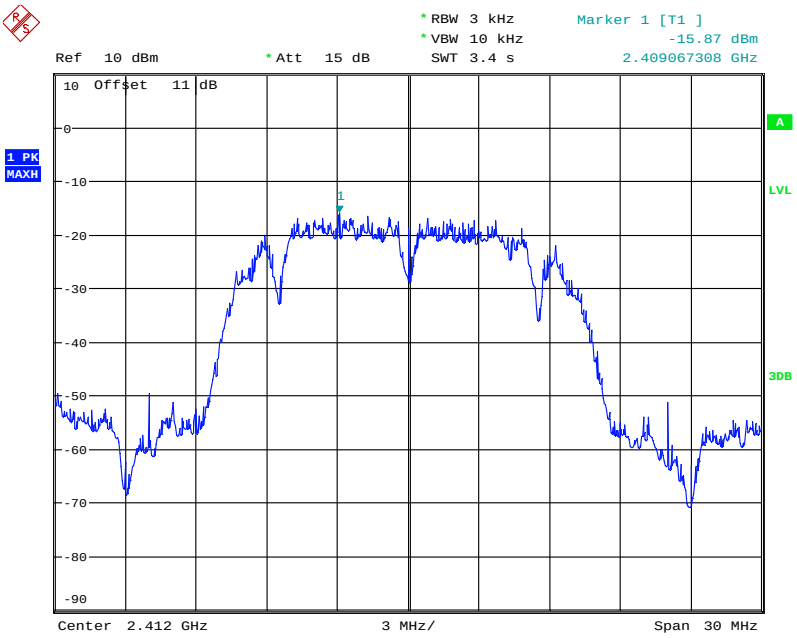
Test equipment used: ETSTW-RE 055, ETSTW-RE 050

3.8 Peak Power Spectral Density

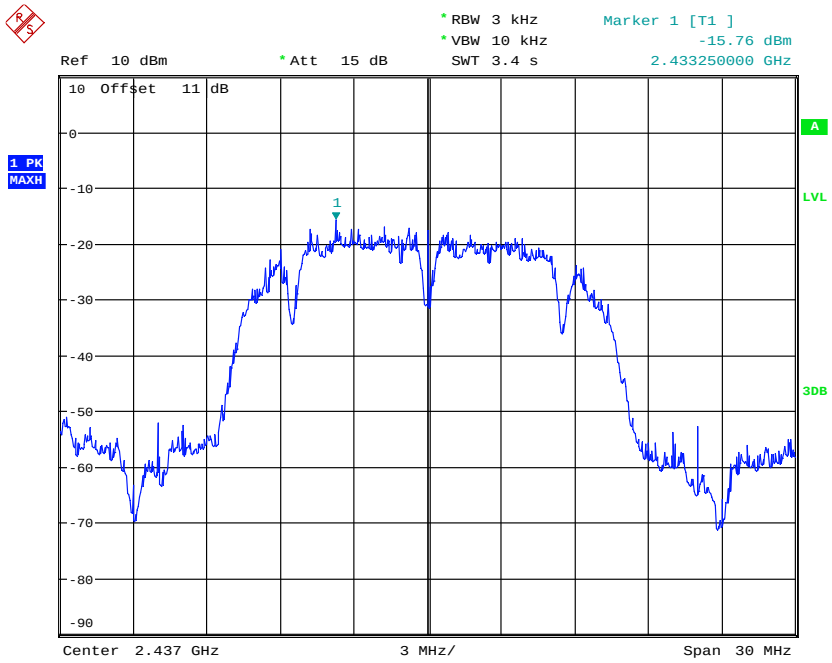
Peak Power Spectral density is a measured at low, middle and high channel.

The peak output power is measured with a measurement bandwidth of 10 MHz and displayed on diagram together with Peak Power Spectral Density result which was measured with a bandwidth of 3 kHz, appreciate frequency span and sweep time.

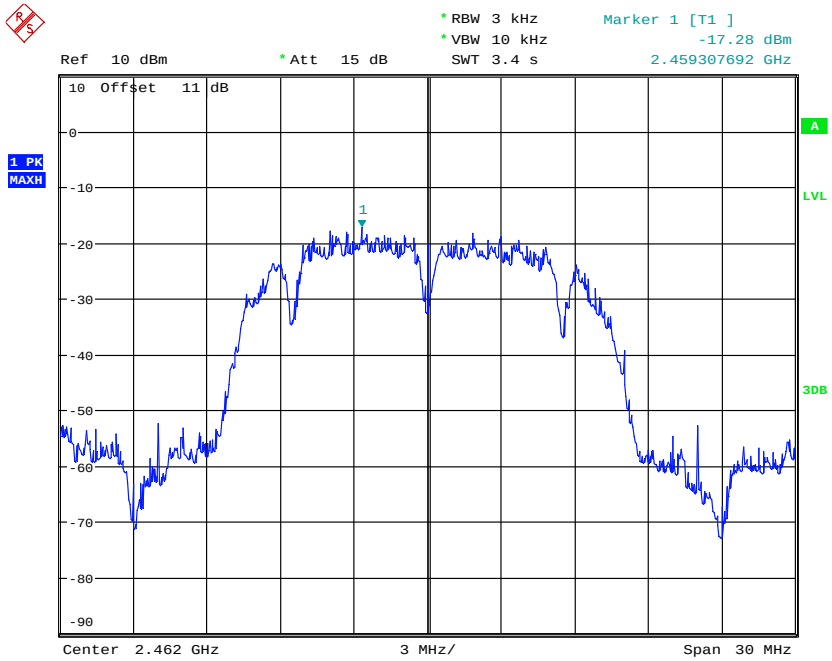
Mode A



POWER DENSITY 802.11B CH01
Date: 13.JUN.2018 13:49:33

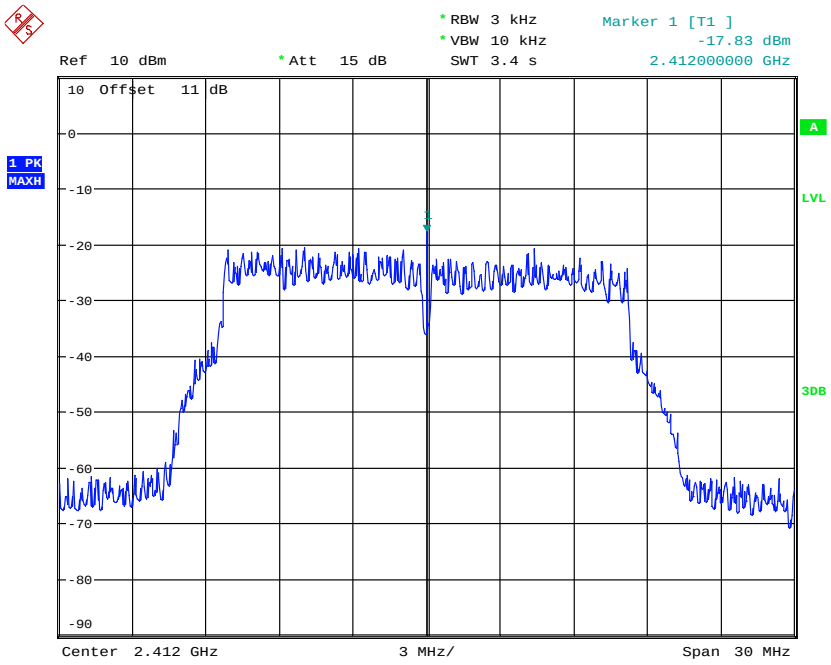


POWER DENSITY 802.11B CH06
Date: 13.JUN.2018 13:50:14

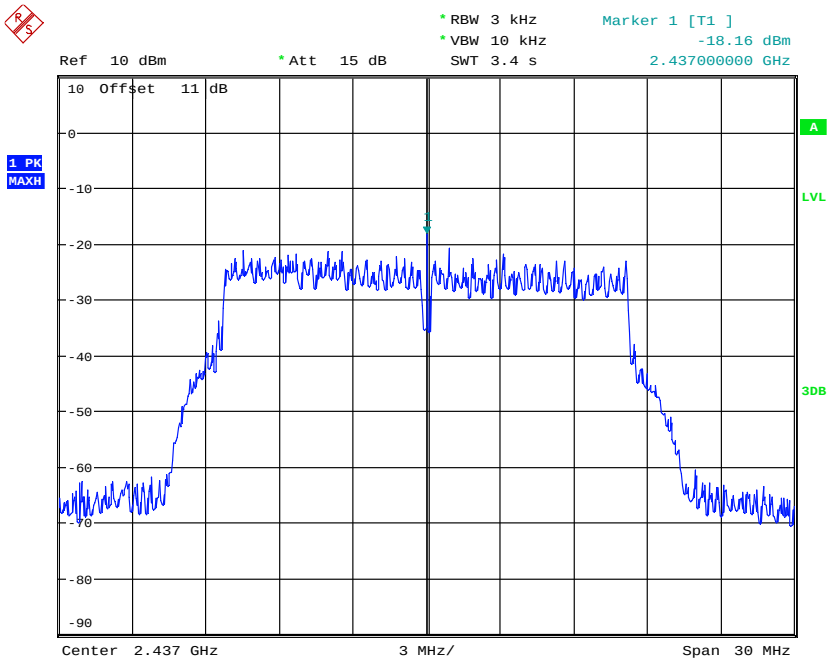


POWER DENSITY 802.11B CH11
Date: 13.JUN.2018 13:50:54

Registration number: W6M21806-18161-C-1
FCC ID: YDM-EA1703
Mode B



POWER DENSITY 802.11G CH01
Date: 13.JUN.2018 13:52:14



POWER DENSITY 802.11G CH06
Date: 13.JUN.2018 13:52:54

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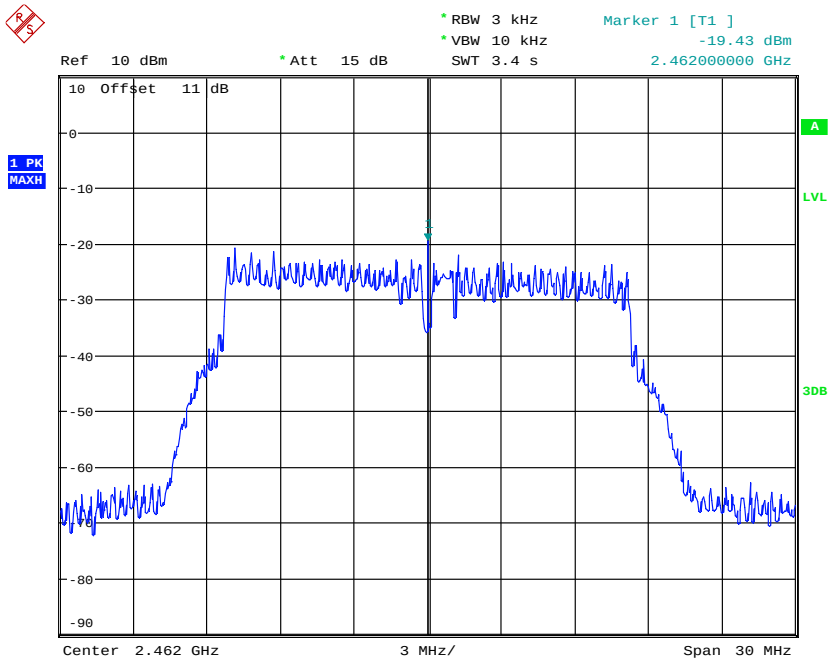
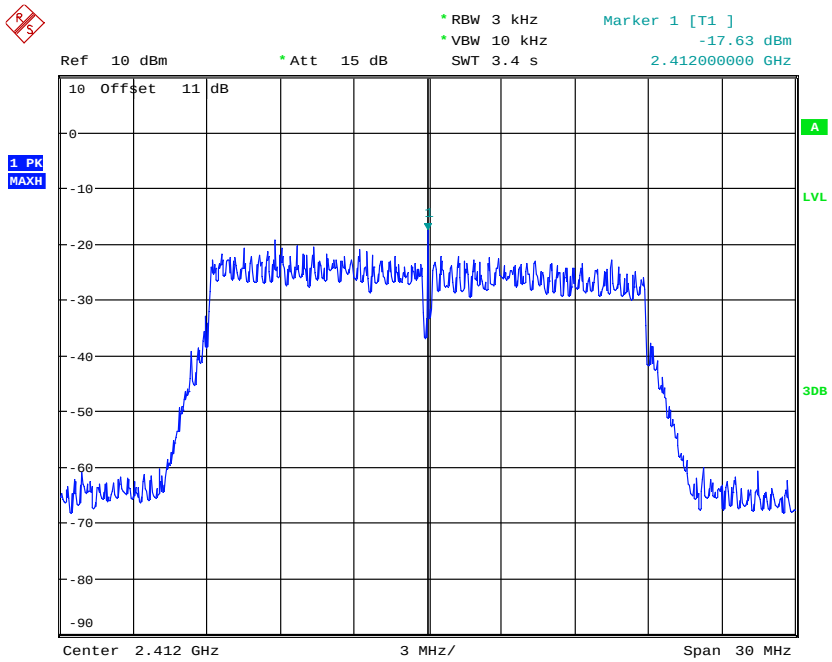
FCC ID: YDM-EA1703



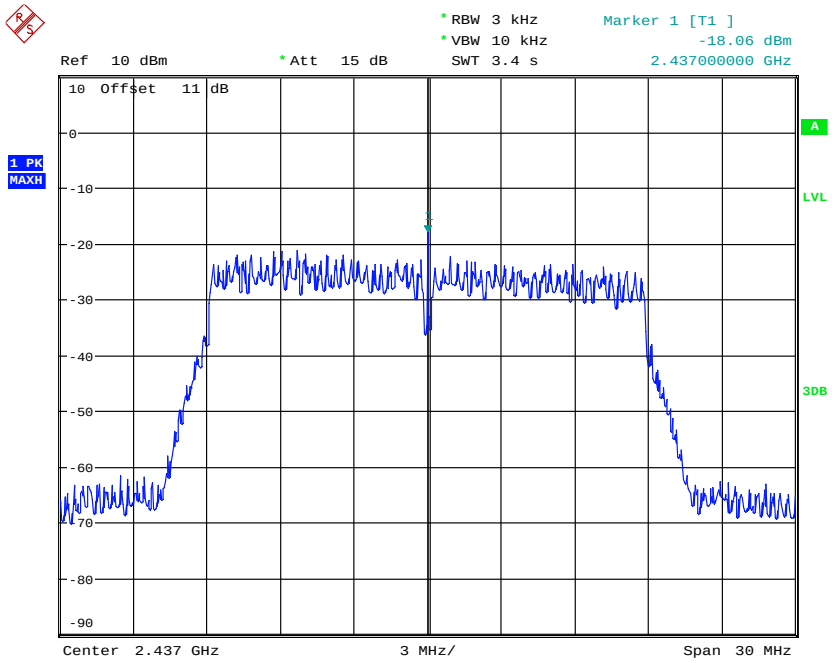
POWER DENSITY 802.11G CH11
Date: 13.JUN.2018 13:53:41

Mode C

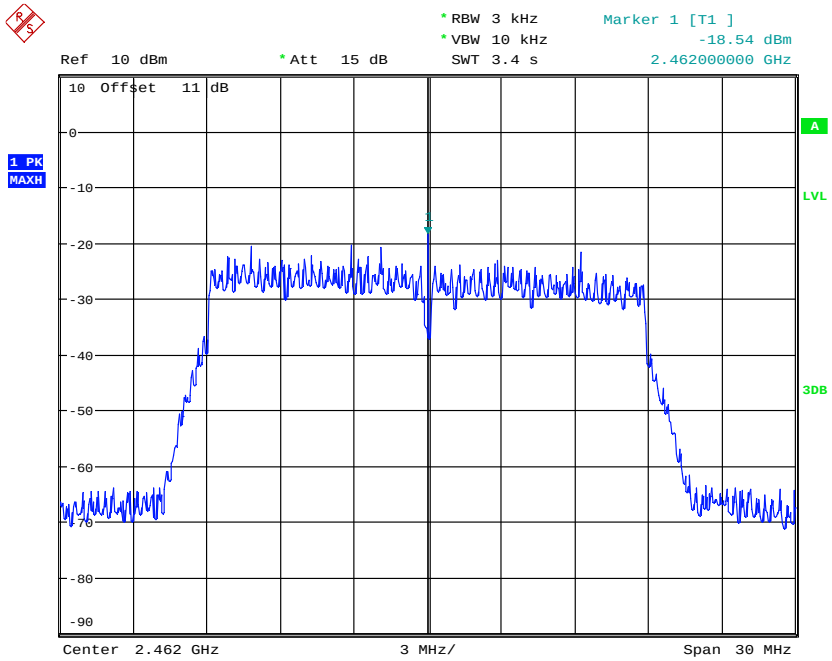


POWER DENSITY 802.11N 20MHZ CH1
Date: 13.JUN.2018 13:54:45

Registration number: W6M21806-18161-C-1
FCC ID: YDM-EA1703

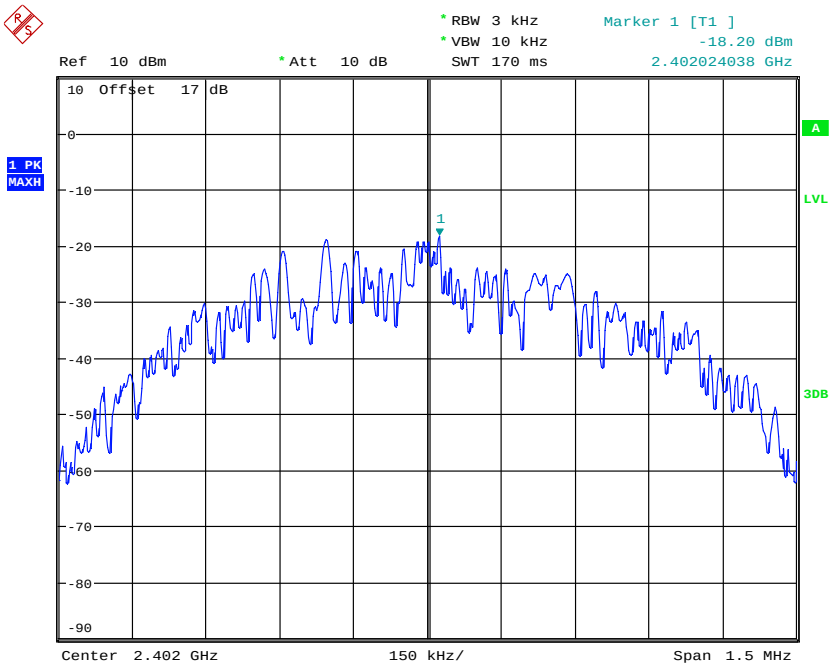


POWER DENSITY 802.11N 20MHZ CH6
Date: 13.JUN.2018 13:55:22

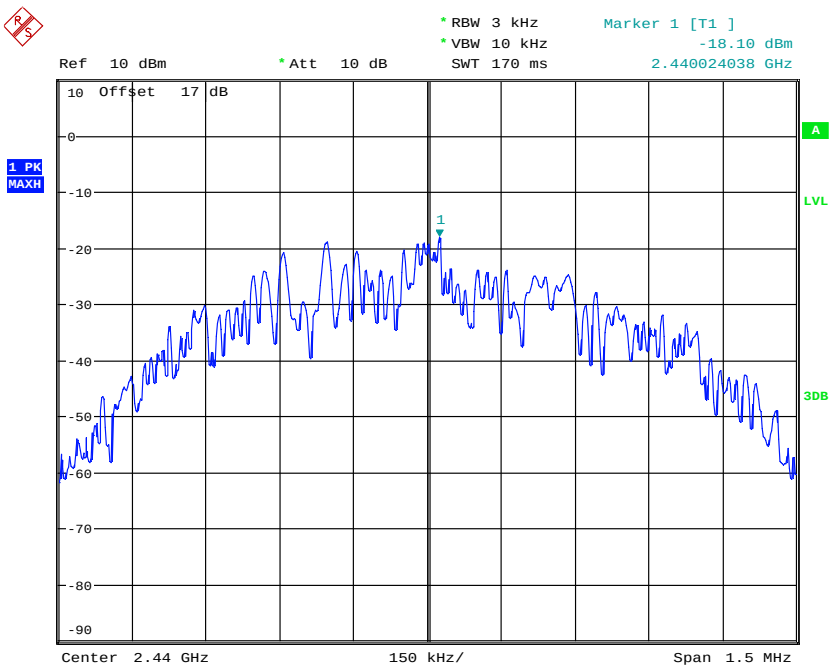


POWER DENSITY 802.11N 20MHZ CH11
Date: 13.JUN.2018 13:56:22

Registration number: W6M21806-18161-C-1
FCC ID: YDM-EA1703
Mode D

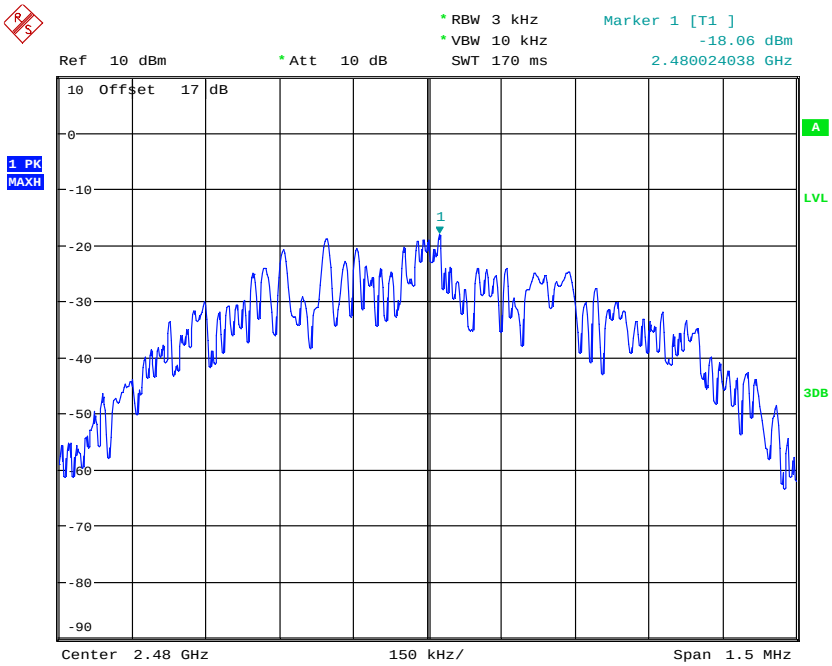


POWER DENSITY BT4.0 CH00
Date: 13.JUN.2018 14:11:22



POWER DENSITY BT4.0 CH19
Date: 13.JUN.2018 14:13:00

Registration number: W6M21806-18161-C-1
FCC ID: YDM-EA1703



POWER DENSITY BT4.0 CH39
Date: 13.JUN.2018 14:14:24

Limits:

Frequency Range MHz	dBm
902-928	8
2400-2483.5	8
5725-5850	8

Test equipment used: ETSTW-RE 055, ETSTW-RE 050

3.9 Radiated Emission from Digital Part

FCC Rule: 15.109

Model: Aero 60 Date: --
Mode: -- Temperature: -- °C Engineer: --
Polarization: Horizontal Humidity: -- %

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--

Frequency (MHz)	Reading (dBuV)		Factor (dB)	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.			
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--

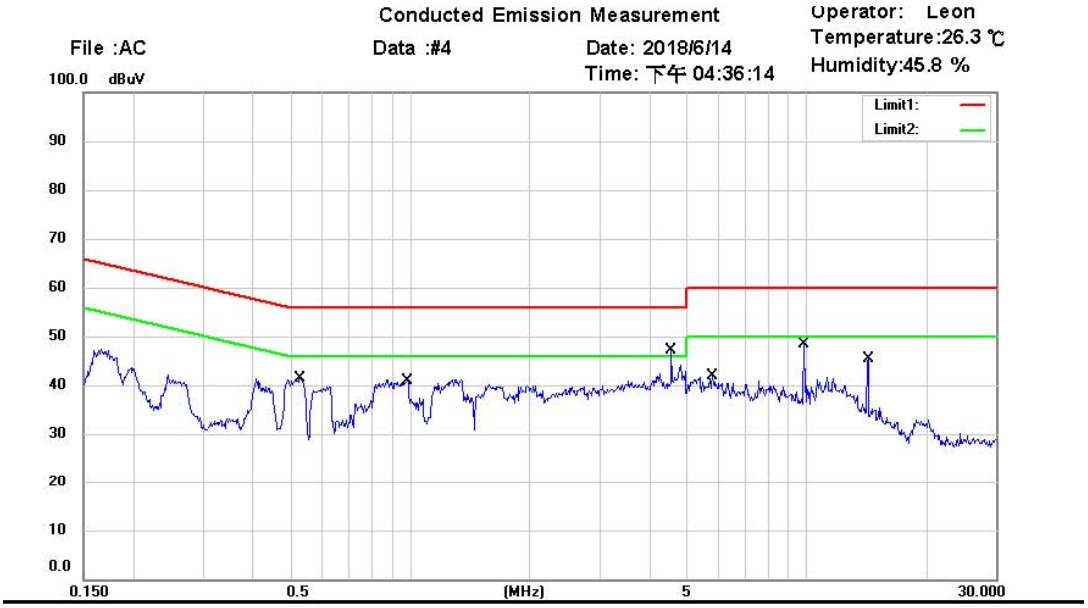
Note
1. **Correction Factor = Antenna factor + Cable loss - Preamplifier**
2. **The formula of measured value as: Test Result = Reading + Correction Factor**
3. **Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average**
4. **All not in the table noted test results are more than 20 dB below the relevant limits.**
5. **Measurement uncertainty for 3m measurement: 30-1000 MHz = ± 3.57 dB, 1-18 GHz = ± 2.60 dB, 18-40 GHz= ± 2.58 dB ; Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.**
6. **The test results are listed in the separated test report no.: W6M21806-18161-P-15B.**

3.10 Power Line Conducted Emission

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the table bellows with this provision shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminals.

This measurement was transact first with instrumentation using an average and peak detector and a 10 kHz bandwidth. If the peak detector achieves a calculated level, the measurement is repeated by an instrumentation using a quasi-peak detector.

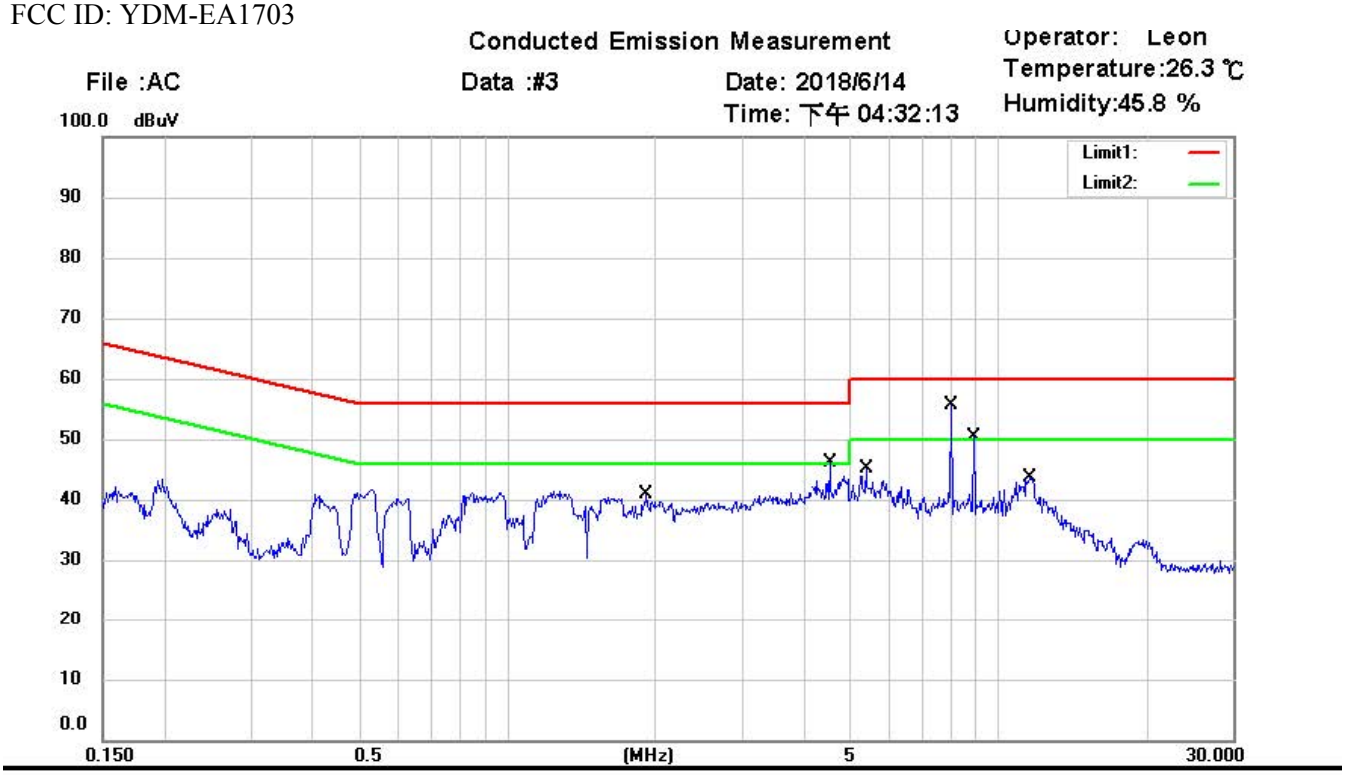
Aero 60



Site : Chamber_03
Condition : FCC Part 15 Class B Conduction (QP)
EUT : W6M21806-18161
M/N:
Test Mode : USB
Note : AE833436P
Phase: N
Power : 120 Va.c.

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.5270	28.96	QP	9.74	38.70	56.00	-17.30	
	0.5270	17.01	AVG	9.74	26.75	46.00	-19.25	
	0.9837	28.42	QP	9.76	38.18	56.00	-17.82	
	0.9837	14.66	AVG	9.76	24.42	46.00	-21.58	
	4.5703	25.91	QP	9.90	35.81	56.00	-20.19	
*	4.5703	18.93	AVG	9.90	28.83	46.00	-17.17	
	5.8000	24.68	QP	9.94	34.62	60.00	-25.38	
	5.8000	18.23	AVG	9.94	28.17	50.00	-21.83	
	9.8375	20.19	QP	10.09	30.28	60.00	-29.72	
	9.8375	13.00	AVG	10.09	23.09	50.00	-26.91	
	14.2375	19.31	QP	10.16	29.47	60.00	-30.53	
	14.2375	12.86	AVG	10.16	23.02	50.00	-26.98	

Registration number: W6M21806-18161-C-1
FCC ID: YDM-EA1703

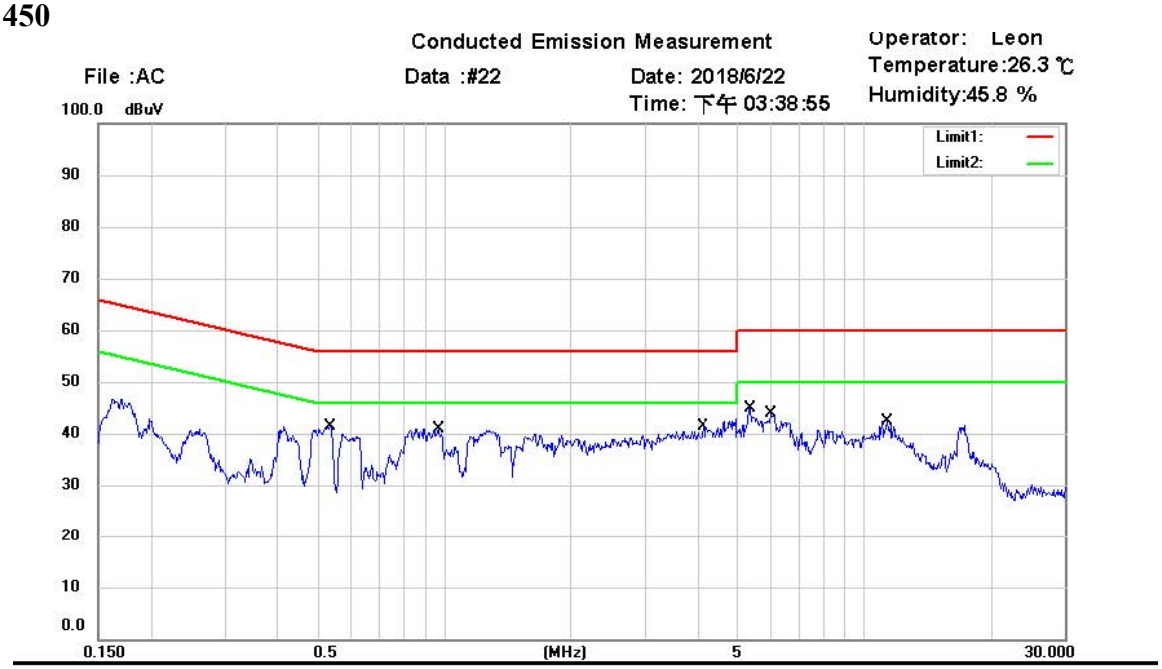


Site : Chamber_03
Condition : FCC Part 15 Class B Conduction (QP)
Phase: L1
EUT : W6M21806-18161
Power : 120 Va.c.
M/N:
Test Mode : USB
Note : AE833436P

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	1.9107	24.06	QP	9.79	33.85	56.00	-22.15	
	1.9107	13.20	AVG	9.79	22.99	46.00	-23.01	
	4.5393	25.19	QP	9.89	35.08	56.00	-20.92	
	4.5393	18.19	AVG	9.89	28.08	46.00	-17.92	
	5.3735	27.74	QP	9.91	37.65	60.00	-22.35	
	5.3735	20.75	AVG	9.91	30.66	50.00	-19.34	
	8.0600	24.83	QP	10.00	34.83	60.00	-25.17	
	8.0600	17.47	AVG	10.00	27.47	50.00	-22.53	
	8.9168	23.37	QP	10.02	33.39	60.00	-26.61	
	8.9168	16.09	AVG	10.02	26.11	50.00	-23.89	
	11.5343	29.38	QP	10.06	39.44	60.00	-20.56	
*	11.5343	22.95	AVG	10.06	33.01	50.00	-16.99	

Registration number: W6M21806-18161-C-1
FCC ID: YDM-EA1703

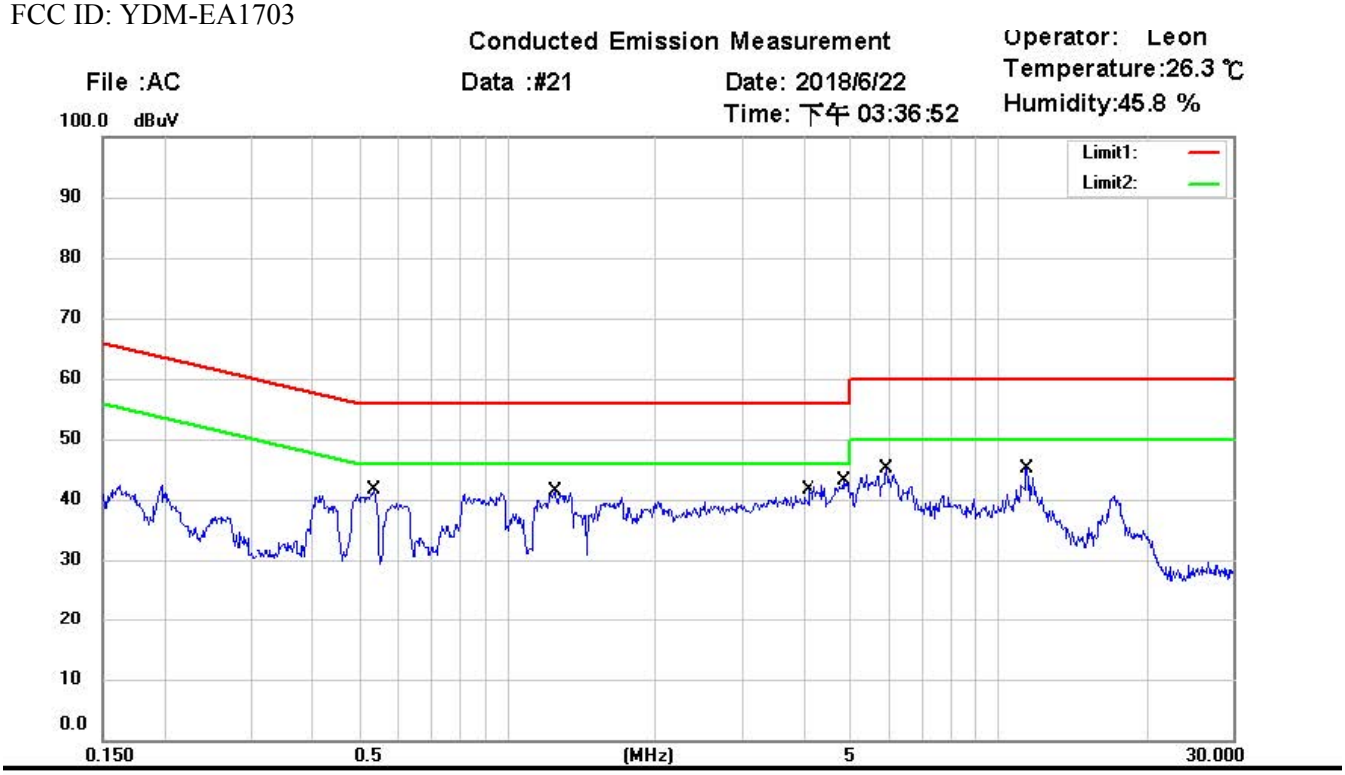
Rider 450



Site : Chamber_03
Condition : FCC Part 15 Class B Conduction (QP)
Phase: N
EUT : W6M21806-18161
Power : 120 Va.c.
M/N:
Test Mode : USB
Note : AE523048P

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
*	0.5360	29.38	QP	9.74	39.12	56.00	-16.88	
	0.5360	17.12	AVG	9.74	26.86	46.00	-19.14	
	0.9680	26.88	QP	9.76	36.64	56.00	-19.36	
	0.9680	12.84	AVG	9.76	22.60	46.00	-23.40	
	4.1270	23.83	QP	9.89	33.72	56.00	-22.28	
	4.1270	16.67	AVG	9.89	26.56	46.00	-19.44	
	5.3375	27.07	QP	9.93	37.00	60.00	-23.00	
	5.3375	20.34	AVG	9.93	30.27	50.00	-19.73	
	6.0000	28.47	QP	9.95	38.42	60.00	-21.58	
	6.0000	22.26	AVG	9.95	32.21	50.00	-17.79	
	11.3250	25.48	QP	10.11	35.59	60.00	-24.41	
	11.3250	17.85	AVG	10.11	27.96	50.00	-22.04	

Registration number: W6M21806-18161-C-1
FCC ID: YDM-EA1703



Site : Chamber_03
Condition : FCC Part 15 Class B Conduction (QP)
Phase: L1
EUT : W6M21806-18161
Power : 120 Va.c.
M/N:
Test Mode : USB
Note : AE523048P

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.5360	29.28	QP	9.73	39.01	56.00	-16.99	
	0.5360	16.90	AVG	9.73	26.63	46.00	-19.37	
	1.2470	26.65	QP	9.75	36.40	56.00	-19.60	
	1.2470	16.05	AVG	9.75	25.80	46.00	-20.20	
	4.1113	23.79	QP	9.87	33.66	56.00	-22.34	
	4.1113	15.94	AVG	9.87	25.81	46.00	-20.19	
	4.8425	26.73	QP	9.90	36.63	56.00	-19.37	
*	4.8425	20.32	AVG	9.90	30.22	46.00	-15.78	
	5.9250	27.80	QP	9.93	37.73	60.00	-22.27	
	5.9250	21.99	AVG	9.93	31.92	50.00	-18.08	
	11.3875	27.27	QP	10.06	37.33	60.00	-22.67	
	11.3875	19.41	AVG	10.06	29.47	50.00	-20.53	

Note: 1. The formula of measured value as: Test Result = Reading + Correction Factor
2. The Correction Factor = Cable Loss + LISN Insertion Loss + Pulse Limit Loss
3. Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average
4. All not in the table noted test results are more than 20 dB below the relevant limits.
5. Measurement uncertainty = ±1.54 dB; Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.
6. Up Line: QP Limit Line, Down Line: Ave Limit Line.

Limits:

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi Peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

Test equipment used: ETSTW-CE 001, ETSTW-CE 016, ETSTW-RE 045.

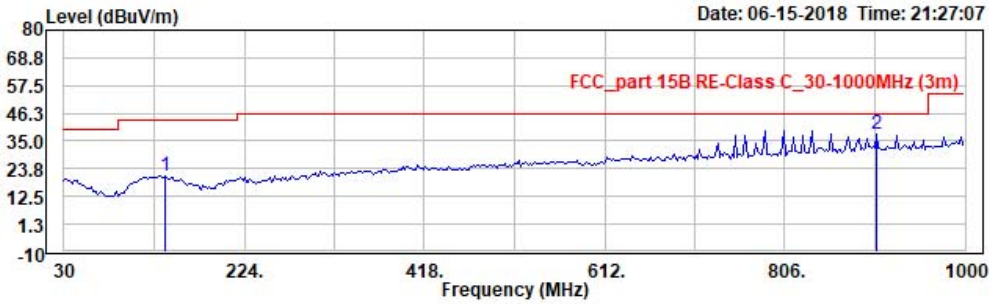
Appendix

Measurement diagrams

Spurious Emissions radiated

TX 802.11b

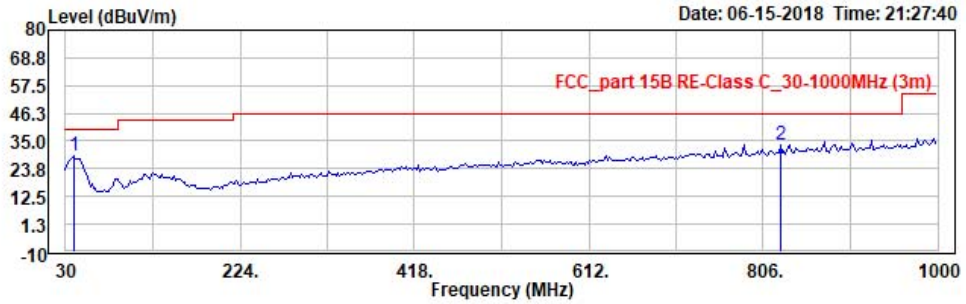
Address:NO.35,Aly.21,Ln 228,Ankang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8879



Site : 966 chamber
Condition: FCC_part 15B RE-Class C_30-1000MHz (3m) 3m horizontal
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11b,ch1

	Freq	Read Level	Remark	Ant Factor	Level	Limit Line	APos	TPos	Over Limit	Note2
	MHz	dBuV		dB/m	dBuV/m	dBuV/m	cm	deg	dB	
1	138.858	27.33	peak	-6.43	20.90	43.50	100	360	-22.60	
2 PP	904.750	33.00	peak	4.96	37.96	46.00	100	155	-8.04	

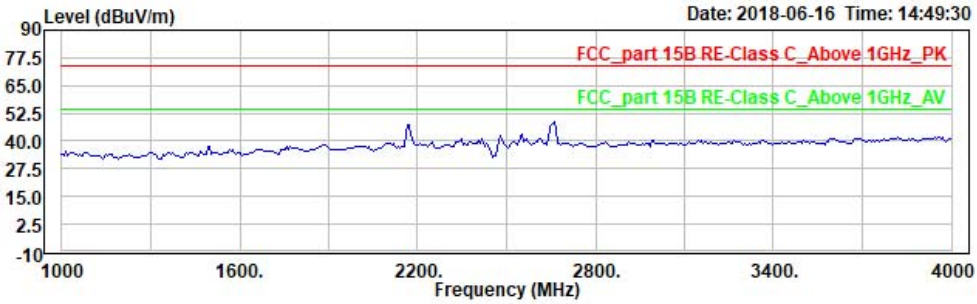
Address:NO.35,Aly.21,Ln 228,Ankang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8879



Site : 966 chamber
Condition: FCC_part 15B RE-Class C_30-1000MHz (3m) 3m Vertical
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11b,ch1

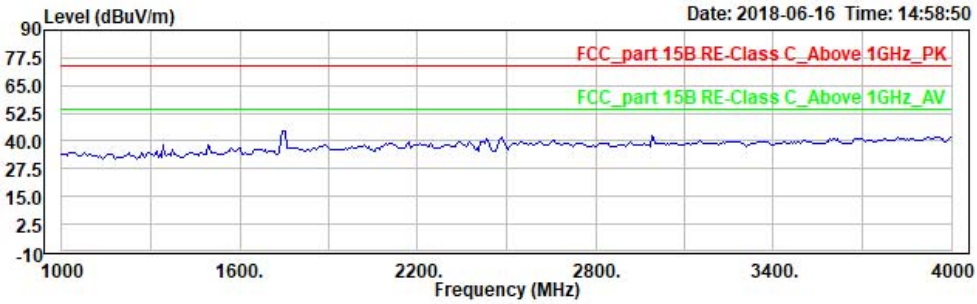
	Freq	Read Level	Remark	Ant Factor	Level	Limit Line	APos	TPos	Over Limit	Note2
	MHz	dBuV		dB/m	dBuV/m	dBuV/m	cm	deg	dB	
1 PP	39.719	38.24	peak	-9.20	29.04	40.00	100	265	-10.96	
2	825.050	30.27	peak	3.24	33.51	46.00	100	291	-12.49	

Address:NO.35,Aly.21,Ln 228,Ankang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8879



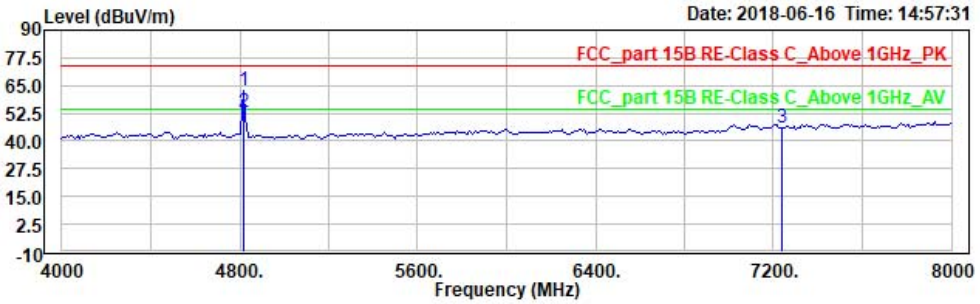
Site : 966 chamber
Condition: FCC_part 15B RE-Class C_Above 1GHz_PK 3m horizontal
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11b,ch1

Address:NO.35,Aly.21,Ln 228,Ankang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8879



Site : 966 chamber
Condition: FCC_part 15B RE-Class C_Above 1GHz_PK 3m Vertical
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11b,ch1

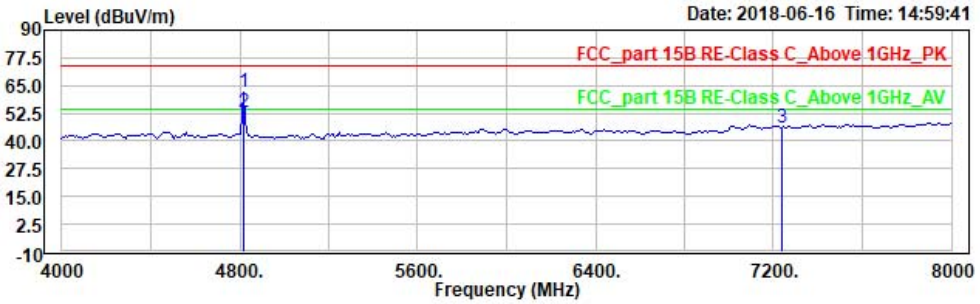
Address:NO.35,Aly.21,Ln 228,Ankang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8879



Site : 966 chamber
Condition: FCC_part 15B RE-Class C_Above 1GHz_PK 3m horizontal
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11b,ch1

	Freq	Read Level	Remark	Ant Factor	Level	Limit Line	APos	TPos	Over Limit	Note2
	MHz	dBuV		dB/m	dBuV/m	dBuV/m	cm	deg	dB	
1 PK	4817.635	62.33	peak	0.74	63.07	74.00	150	206	-10.93	
2 PP	4817.635	52.45	average	0.74	53.19	54.00	150	206	-0.81	
3	7236.000	40.59	peak	5.42	46.01	74.00	150	351	-27.99	

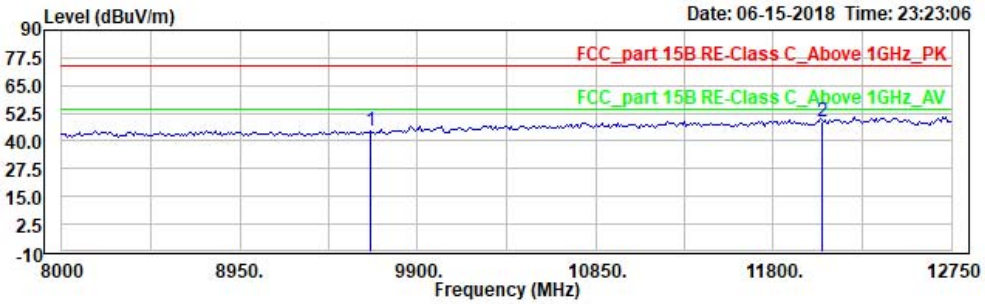
Address:NO.35,Aly.21,Ln 228,Ankang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8879



Site : 966 chamber
Condition: FCC_part 15B RE-Class C_Above 1GHz_PK 3m Vertical
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11b,ch1

	Freq	Read Level	Remark	Ant Factor	Level	Limit Line	APos	TPos	Over Limit	Note2
	MHz	dBuV		dB/m	dBuV/m	dBuV/m	cm	deg	dB	
1 PK	4817.635	61.00	peak	0.74	61.74	74.00	150	167	-12.26	
2 PP	4817.635	52.48	average	0.74	53.22	54.00	150	167	-0.78	
3	7236.000	40.62	peak	5.42	46.04	74.00	150	175	-27.96	

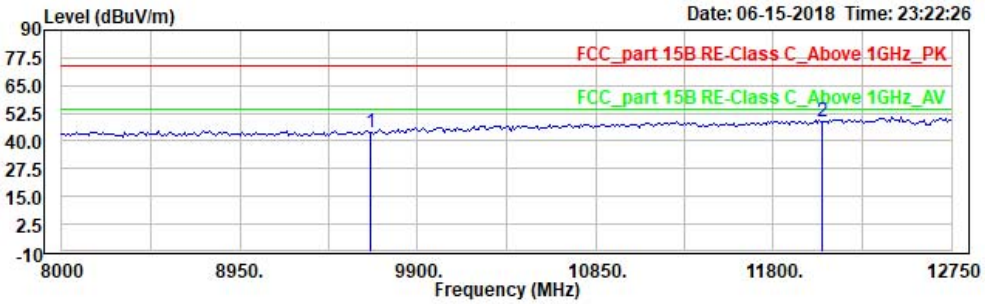
Address:NO.35,Aly.21,Ln 228,Ankang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8879



Site : 966 chamber
Condition: FCC_part 15B RE-Class C_Above 1GHz_PK 3m horizontal
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11b,ch1

	Freq	Read Level	Remark	Ant Factor	Level	Limit Line	APos	TPos	Over Limit	Note2
	MHz	dBuV		dB/m	dBuV/m	dBuV/m	cm	deg	dB	
1	9648.000	35.99	peak	8.28	44.27	74.00	150	176	-29.73	
2	PP12060.000	34.81	peak	14.17	48.98	74.00	150	122	-25.02	

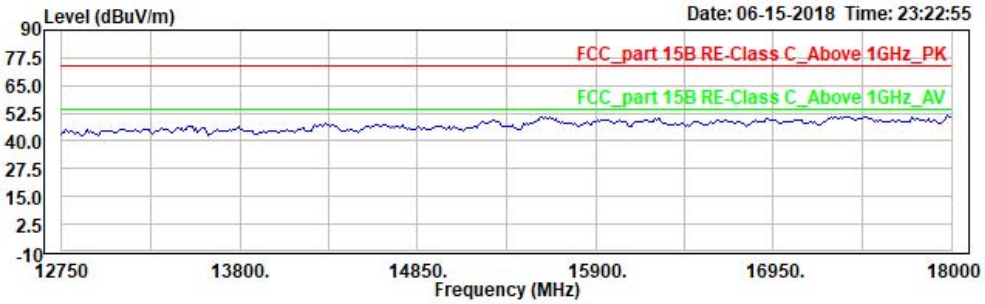
Address:NO.35,Aly.21,Ln 228,Ankang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8879



Site : 966 chamber
Condition: FCC_part 15B RE-Class C_Above 1GHz_PK 3m Vertical
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11b,ch1

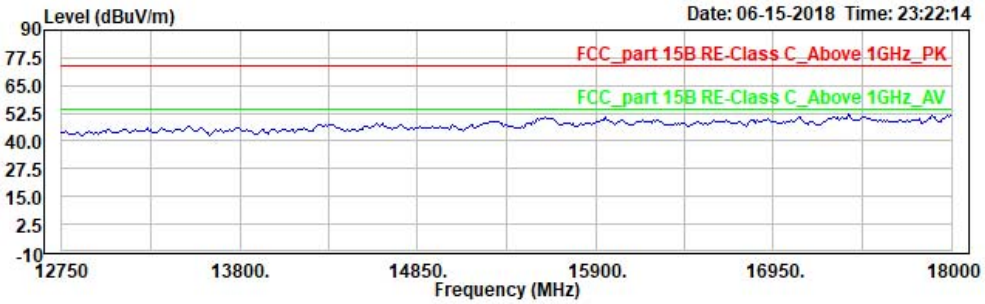
	Freq	Read Level	Remark	Ant Factor	Level	Limit Line	APos	TPos	Over Limit	Note2
	MHz	dBuV		dB/m	dBuV/m	dBuV/m	cm	deg	dB	
1	9648.000	35.75	peak	8.28	44.03	74.00	150	0	-29.97	
2	PP12060.000	34.59	peak	14.17	48.76	74.00	150	194	-25.24	

Address:NO.35,Aly.21,Ln 228,Ankang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8879



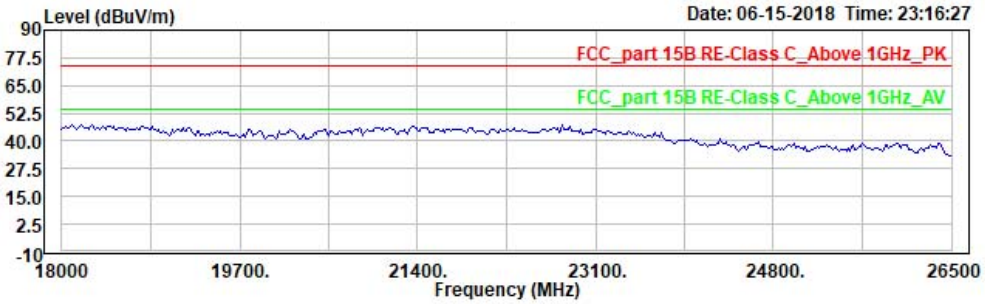
Site : 966 chamber
Condition: FCC_part 15B RE-Class C_Above 1GHz_PK 3m horizontal
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11b,ch1

Address:NO.35,Aly.21,Ln 228,Ankang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8879



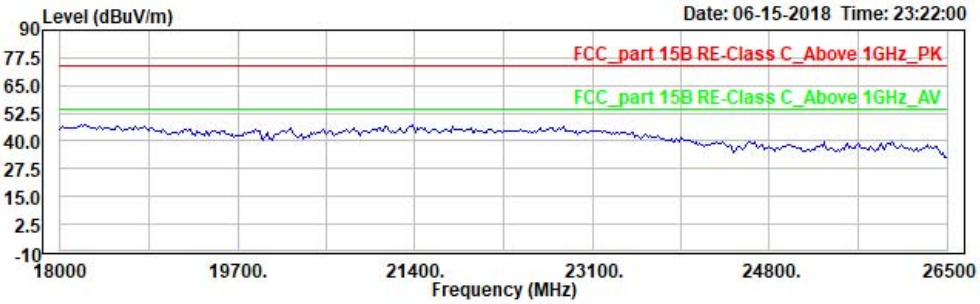
Site : 966 chamber
Condition: FCC_part 15B RE-Class C_Above 1GHz_PK 3m Vertical
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11b,ch1

Address:NO.35,Aly.21,Ln 228,Ankang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8879



Site : 966 chamber
Condition: FCC_part 15B RE-Class C_Above 1GHz_PK 3m horizontal
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11b,ch1

Address:NO.35,Aly.21,Ln 228,Ankang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8879




```
Site     : 966 chamber
Condition: FCC_part 15B RE-Class C_Above 1GHz_PK 3m Vertical
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11b,ch1
```

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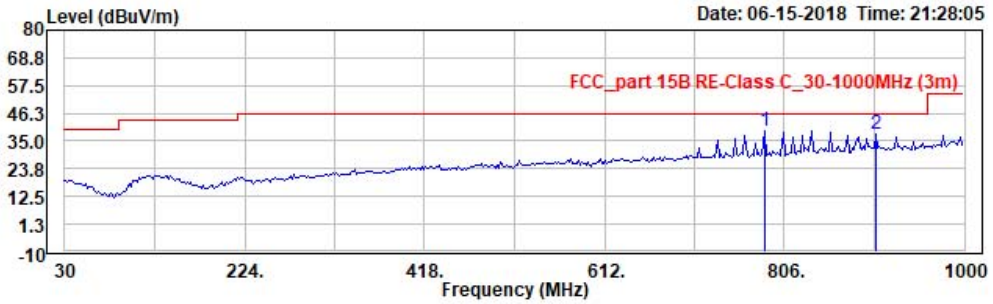

Site : 966 chamber
Condition: FCC_part 15B RE-Class C_30-1000MHz (3m) 3m horizontal
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11b,ch6

	Freq	Read Level	Remark	Ant Factor	Level	Limit Line	APos	TPos	Over Limit	Note2
	MHz	dBuV		dB/m	dBuV/m	dBuV/m	cm	deg	dB	
1 PP	784.229	37.06	peak	2.28	39.34	46.00	100	113	-6.66	
2	904.750	32.93	peak	4.96	37.89	46.00	100	92	-8.11	

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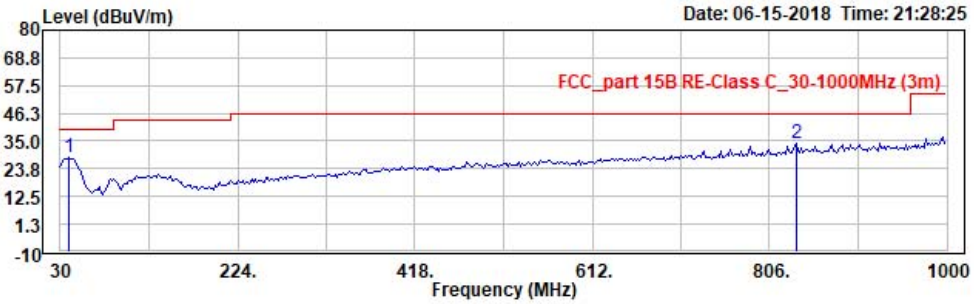

Site : 966 chamber
Condition: FCC_part 15B RE-Class C_30-1000MHz (3m) 3m Vertical
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11b,ch6

	Freq	Read Level	Remark	Ant Factor	Level	Limit Line	APos	TPos	Over Limit	Note2
	MHz	dBuV		dB/m	dBuV/m	dBuV/m	cm	deg	dB	
1 PP	39.719	37.84	peak	-9.20	28.64	40.00	100	0	-11.36	
2	834.770	30.69	peak	3.49	34.18	46.00	100	105	-11.82	

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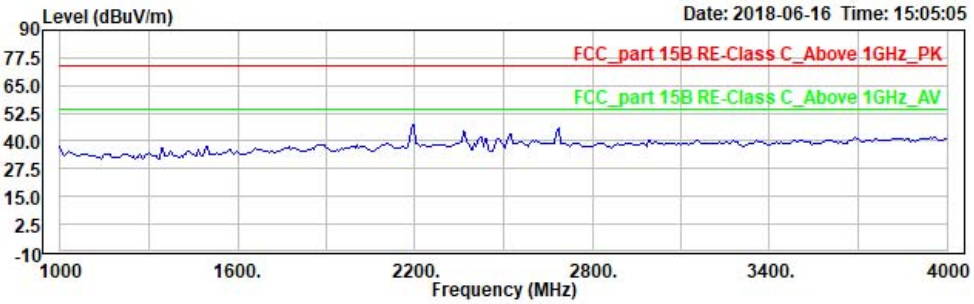

Site : 966 chamber
Condition: FCC_part 15B RE-Class C_Above 1GHz_PK 3m horizontal
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11b,ch6

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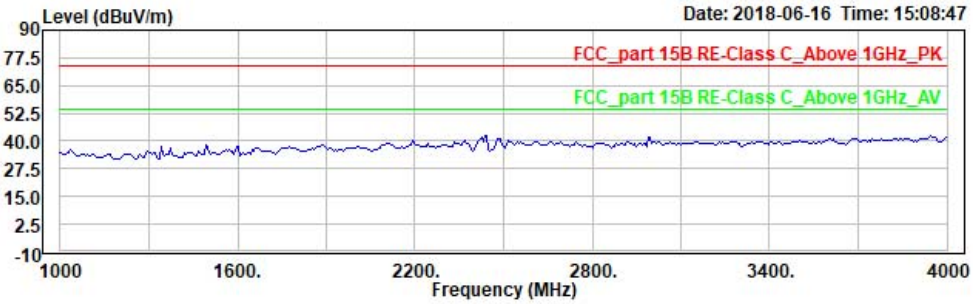

Site : 966 chamber
Condition: FCC_part 15B RE-Class C_Above 1GHz_PK 3m Vertical
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11b,ch6

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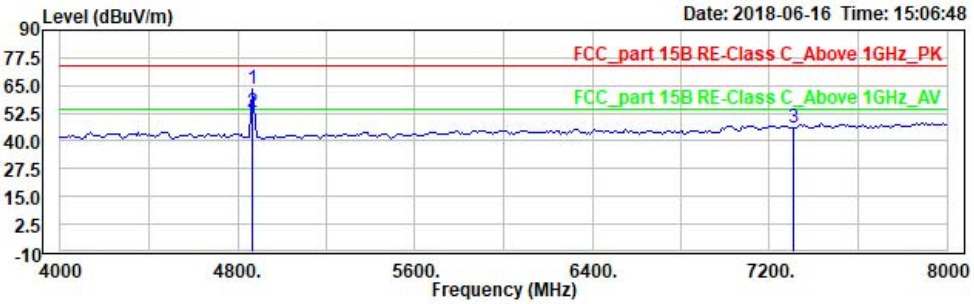

Site : 966 chamber
Condition: FCC_part 15B RE-Class C_Above 1GHz_PK 3m horizontal
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11b,ch6

	Freq	Read Level	Remark	Ant Factor	Level	Limit Line	APos	TPos	Over Limit	Note2
	MHz	dBuV		dB/m	dBuV/m	dBuV/m	cm	deg	dB	
1 PK	4865.731	62.90	peak	0.70	63.60	74.00	150	205	-10.40	
2 PP	4865.731	52.09	average	0.70	52.79	54.00	150	205	-1.21	
3	7311.000	40.59	peak	5.57	46.16	74.00	150	9	-27.84	

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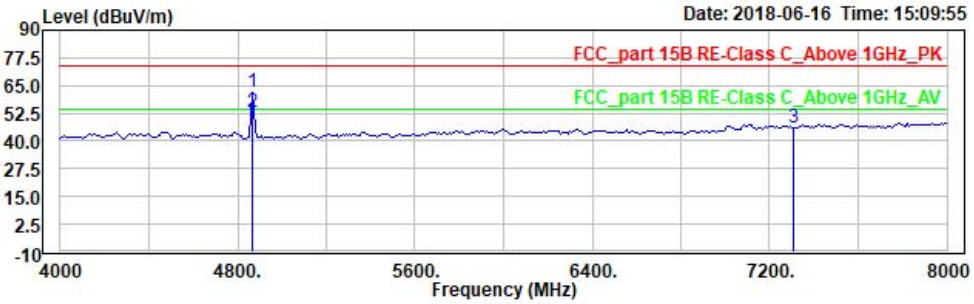

Site : 966 chamber
Condition: FCC_part 15B RE-Class C_Above 1GHz_PK 3m Vertical
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11b,ch6

	Freq	Read Level	Remark	Ant Factor	Level	Limit Line	APos	TPos	Over Limit	Note2
	MHz	dBuV		dB/m	dBuV/m	dBuV/m	cm	deg	dB	
1 PK	4865.731	61.00	peak	0.70	61.70	74.00	150	168	-12.30	
2 PP	4865.731	52.39	average	0.70	53.09	54.00	150	168	-0.91	
3	7311.000	40.21	peak	5.57	45.78	74.00	150	156	-28.22	

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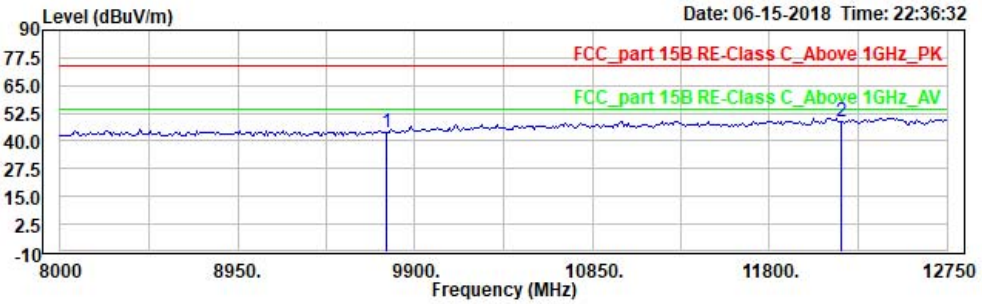

Site : 966 chamber
Condition: FCC_part 15B RE-Class C_Above 1GHz_PK 3m horizontal
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11b,ch6

	Freq	Read Level	Remark	Ant Factor	Level	Limit Line	APos	TPos	Over Limit	Note2
	MHz	dBuV		dB/m	dBuV/m	dBuV/m	cm	deg	dB	
1	9748.000	35.47	peak	8.57	44.04	74.00	150	321	-29.96	
2	PP12185.000	33.39	peak	15.16	48.55	74.00	150	360	-25.45	

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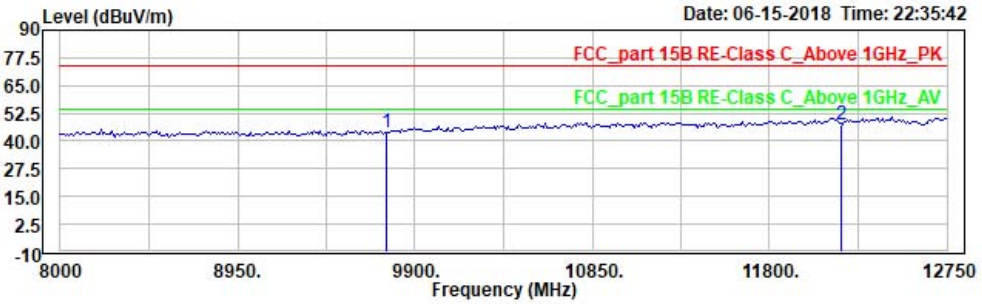

Site : 966 chamber
Condition: FCC_part 15B RE-Class C_Above 1GHz_PK 3m Vertical
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11b,ch6

	Freq	Read Level	Remark	Ant Factor	Level	Limit Line	APos	TPos	Over Limit	Note2
	MHz	dBuV		dB/m	dBuV/m	dBuV/m	cm	deg	dB	
1	9748.000	35.27	peak	8.57	43.84	74.00	150	356	-30.16	
2	PP12185.000	32.47	peak	15.16	47.63	74.00	150	16	-26.37	

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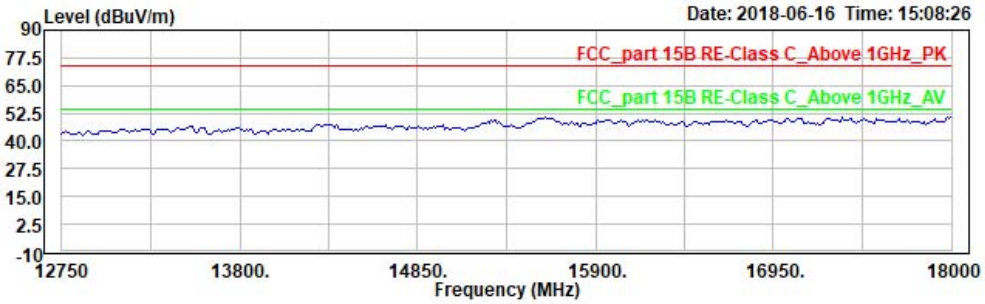

Site : 966 chamber
Condition: FCC_part 15B RE-Class C_Above 1GHz_PK 3m horizontal
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11b,ch6

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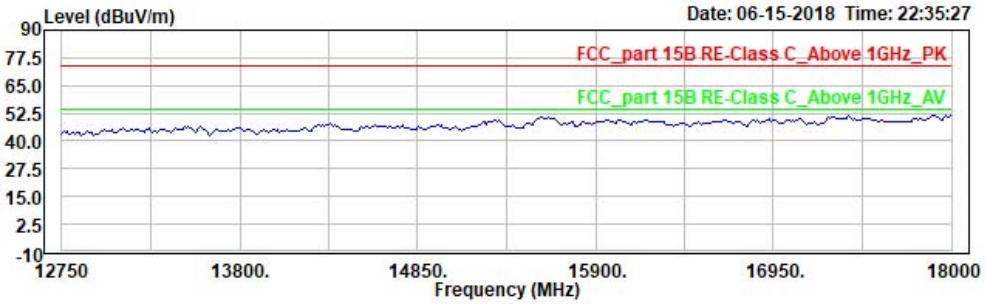

Site : 966 chamber
Condition: FCC_part 15B RE-Class C_Above 1GHz_PK 3m Vertical
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11b,ch6

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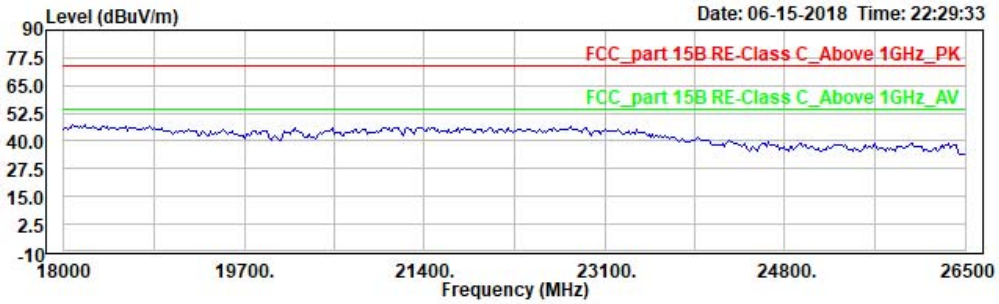

Site : 966 chamber
Condition: FCC_part 15B RE-Class C_Above 1GHz_PK 3m horizontal
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11b,ch6

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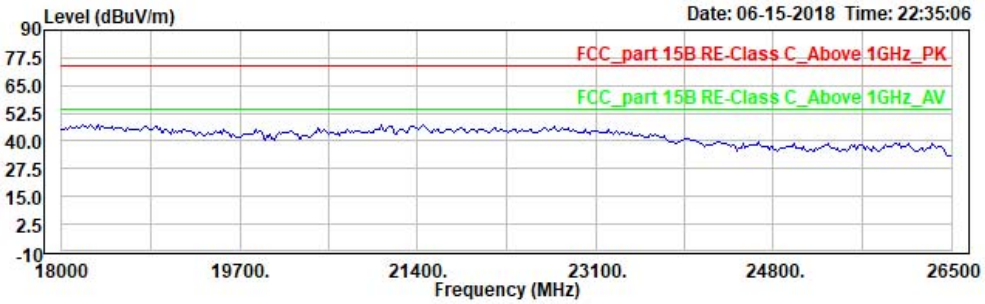

Site : 966 chamber
Condition: FCC_part 15B RE-Class C_Above 1GHz_PK 3m Vertical
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11b,ch6

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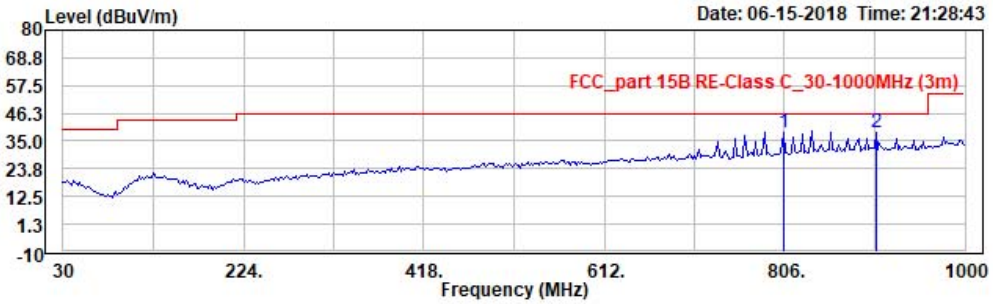

Site : 966 chamber
Condition: FCC_part 15B RE-Class C_30-1000MHz (3m) 3m horizontal
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11b,ch11

	Freq	Read Level	Remark	Ant Factor	Level	Limit Line	APos	TPos	Over Limit	Note2
	MHz	dBuV		dB/m	dBuV/m	dBuV/m	cm	deg	dB	
1 PP	805.611	35.58	peak	2.74	38.32	46.00	100	172	-7.68	
2	904.750	33.35	peak	4.96	38.31	46.00	100	172	-7.69	

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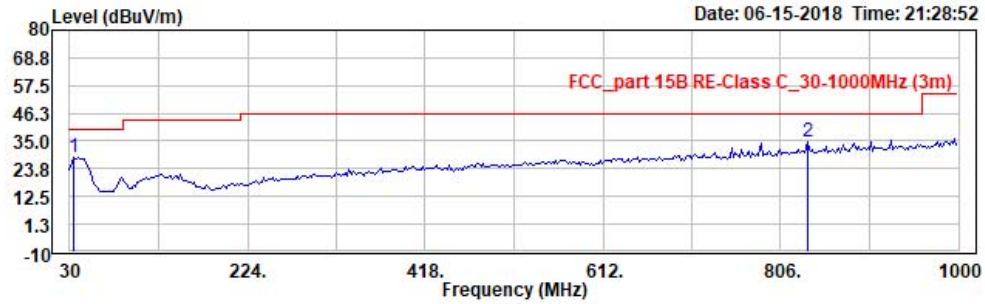

Site : 966 chamber
Condition: FCC_part 15B RE-Class C_30-1000MHz (3m) 3m Vertical
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11b,ch11

	Freq	Read Level	Remark	Ant Factor	Level	Limit Line	APos	TPos	Over Limit	Note2
	MHz	dBuV		dB/m	dBuV/m	dBuV/m	cm	deg	dB	
1	33.888	36.66	peak	-8.52	28.14	40.00	100	124	-11.86	
2 PP	834.770	30.99	peak	3.49	34.48	46.00	100	144	-11.52	

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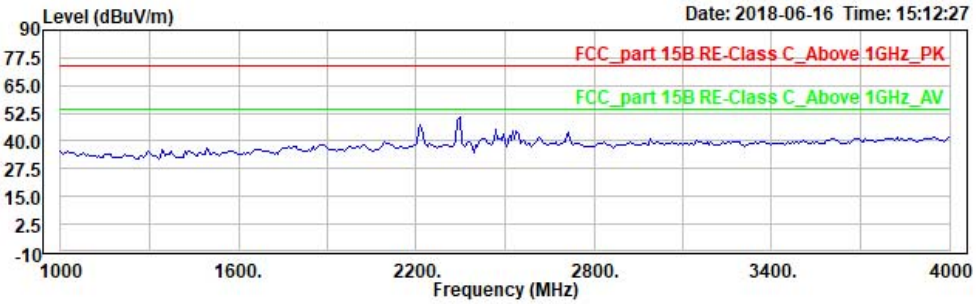


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Site     : 966 chamber
Condition: FCC_part 15B RE-Class C_Above 1GHz_PK 3m horizontal
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11b,ch11
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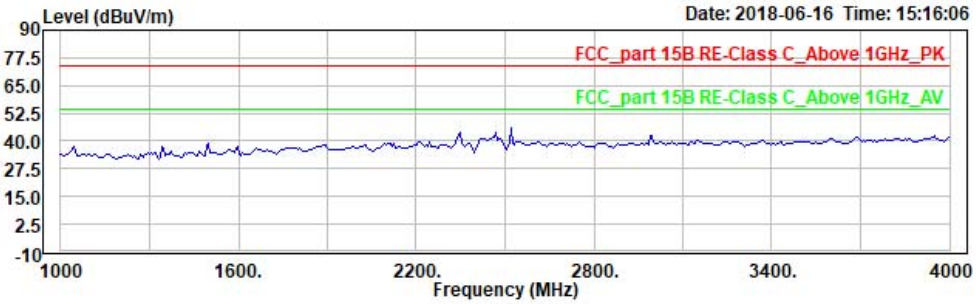

Site : 966 chamber
Condition: FCC_part 15B RE-Class C_Above 1GHz_PK 3m Vertical
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11b,ch11

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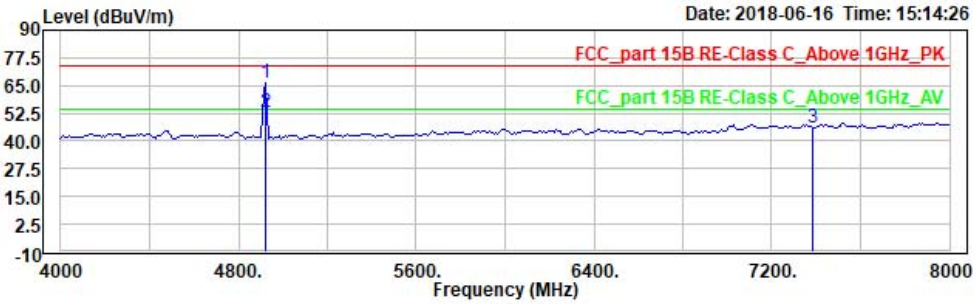

Site : 966 chamber
Condition: FCC_part 15B RE-Class C_Above 1GHz_PK 3m horizontal
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11b,ch11

	Freq	Read Level	Remark	Ant Factor	Level	Limit Line	APos	TPos	Over Limit	Note2
	MHz	dBuV		dB/m	dBuV/m	dBuV/m	cm	deg	dB	
1 PK	4921.844	65.81	peak	0.71	66.52	74.00	150	205	-7.48	
2 PP	4921.844	52.39	average	0.71	53.10	54.00	150	205	-0.90	
3	7386.000	39.96	peak	5.99	45.95	74.00	150	360	-28.05	

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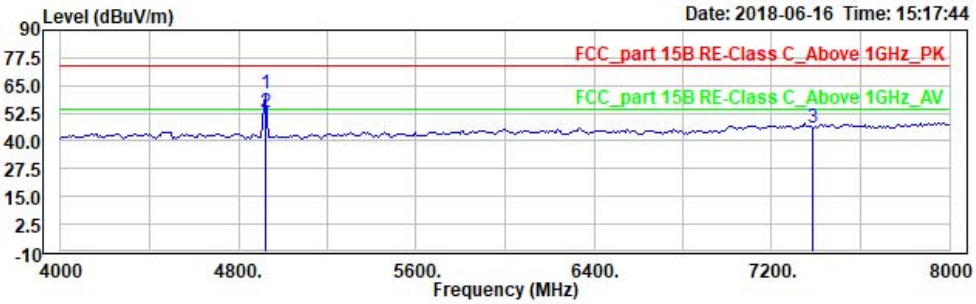

Site : 966 chamber
Condition: FCC_part 15B RE-Class C_Above 1GHz_PK 3m Vertical
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11b,ch11

	Freq	Read Level	Remark	Ant Factor	Level	Limit Line	APos	TPos	Over Limit	Note2
	MHz	dBuV		dB/m	dBuV/m	dBuV/m	cm	deg	dB	
1 PK	4921.844	60.55	peak	0.71	61.26	74.00	150	174	-12.74	
2 PP	4921.844	52.41	average	0.71	53.12	54.00	150	174	-0.88	
3	7386.000	39.96	peak	5.99	45.95	74.00	150	57	-28.05	

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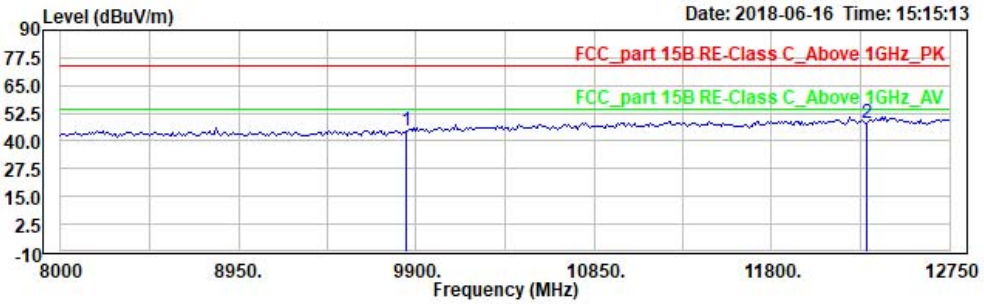

Site : 966 chamber
Condition: FCC_part 15B RE-Class C_Above 1GHz_PK 3m horizontal
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11b,ch11

	Freq	Read Level	Remark	Ant Factor	Level	Limit Line	APos	TPos	Over Limit	Note2
	MHz	dBuV		dB/m	dBuV/m	dBuV/m	cm	deg	dB	
1	9848.000	35.30	peak	9.27	44.57	74.00	150	360	-29.43	
2	PP12310.000	33.64	peak	14.62	48.26	74.00	150	161	-25.74	

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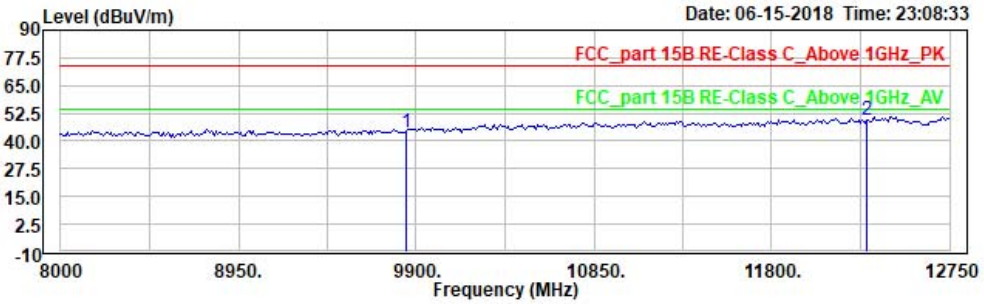

Site : 966 chamber
Condition: FCC_part 15B RE-Class C_Above 1GHz_PK 3m Vertical
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11b,ch11

	Freq	Read Level	Remark	Ant Factor	Level	Limit Line	APos	TPos	Over Limit	Note2
	MHz	dBuV		dB/m	dBuV/m	dBuV/m	cm	deg	dB	
1	9848.000	34.92	peak	9.27	44.19	74.00	150	105	-29.81	
2	PP12310.000	34.53	peak	14.62	49.15	74.00	150	16	-24.85	

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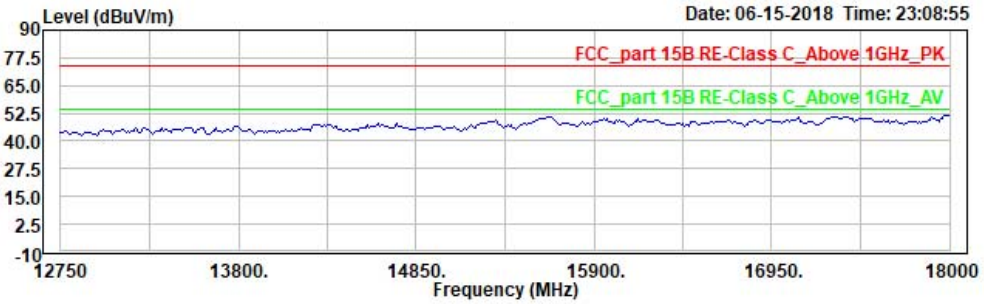


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Site     : 966 chamber
Condition: FCC_part 15B RE-Class C_Above 1GHz_PK 3m horizontal
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11b,ch11
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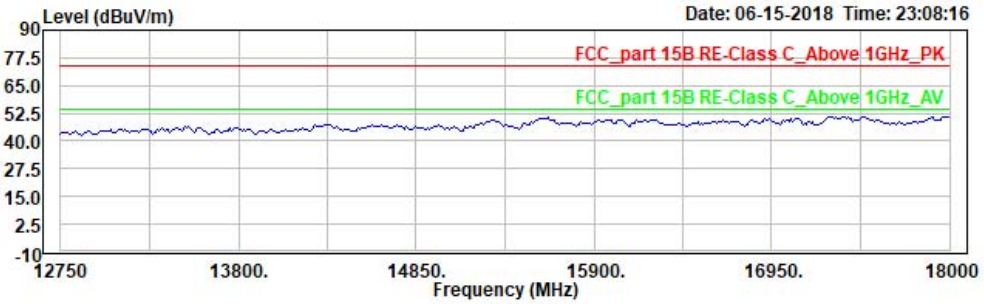


```
Site     : 966 chamber
Condition: FCC_part 15B RE-Class C_Above 1GHz_PK 3m Vertical
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11b,ch11
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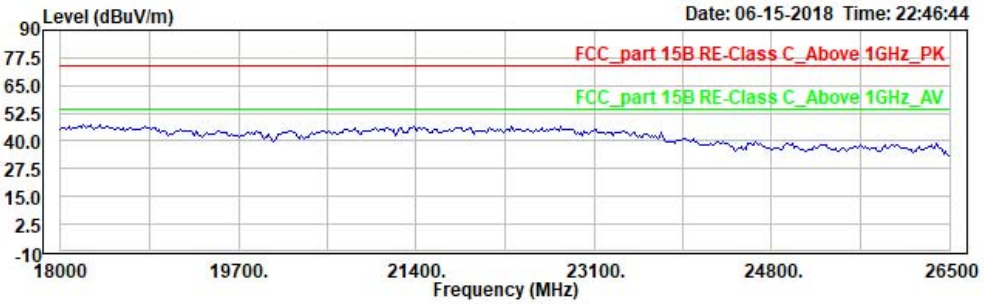


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Site     : 966 chamber
Condition: FCC_part 15B RE-Class C_Above 1GHz_PK 3m horizontal
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11b,ch11
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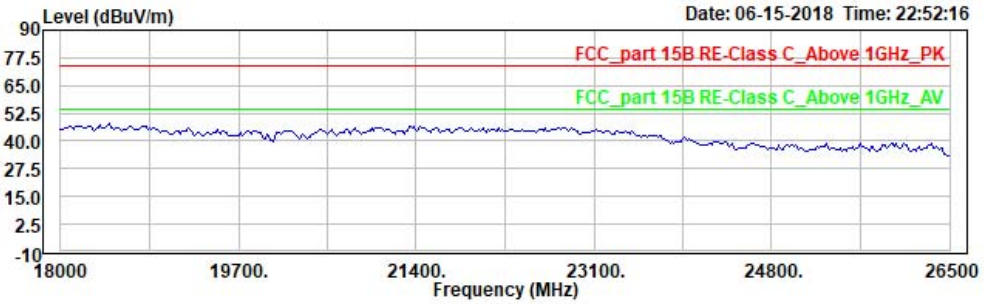


```
Site     : 966 chamber
Condition: FCC_part 15B RE-Class C_Above 1GHz_PK 3m Vertical
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11b,ch11
```

TX 802.11g

Address:NO.35,Aly.21,Ln 228,Ankang Rd,Neihu,Taipei
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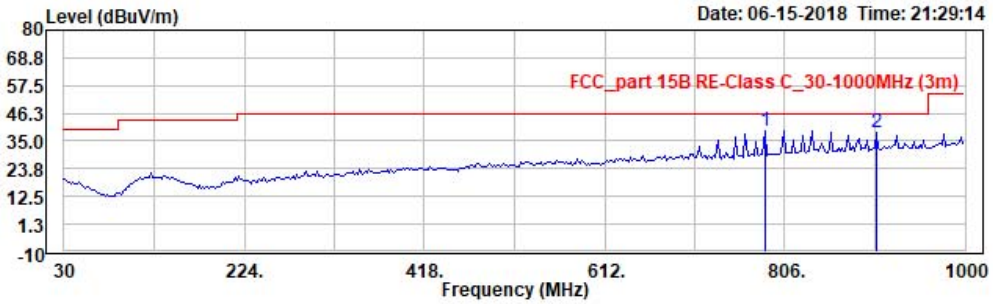

Site : 966 chamber
Condition: FCC_part 15B RE-Class C_30-1000MHz (3m) 3m horizontal
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11g,ch1

	Freq	Read Level	Remark	Ant Factor	Level	Limit Line	APos	TPos	Over Limit	Note2
	MHz	dBuV		dB/m	dBuV/m	dBuV/m	cm	deg	dB	
1 PP	784.229	36.64	peak	2.28	38.92	46.00	100	118	-7.08	
2	904.750	33.21	peak	4.96	38.17	46.00	100	176	-7.83	

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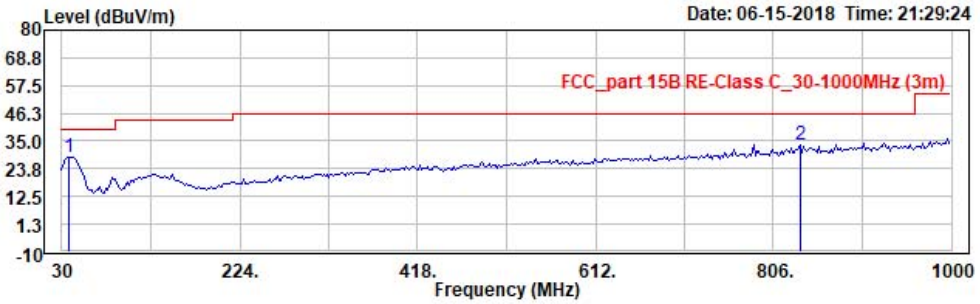

Site : 966 chamber
Condition: FCC_part 15B RE-Class C_30-1000MHz (3m) 3m Vertical
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11g,ch1

	Freq	Read Level	Remark	Ant Factor	Level	Limit Line	APos	TPos	Over Limit	Note2
	MHz	dBuV		dB/m	dBuV/m	dBuV/m	cm	deg	dB	
1 PP	37.776	37.46	peak	-8.98	28.48	40.00	100	172	-11.52	
2	834.770	29.97	peak	3.49	33.46	46.00	100	289	-12.54	

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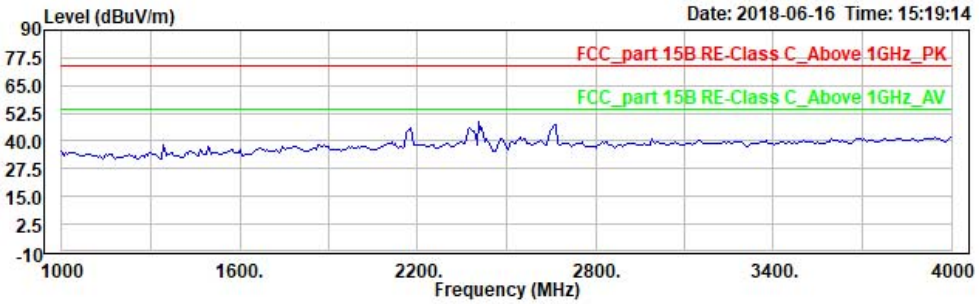

Site : 966 chamber
Condition: FCC_part 15B RE-Class C_Above 1GHz_PK 3m horizontal
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11g,ch1

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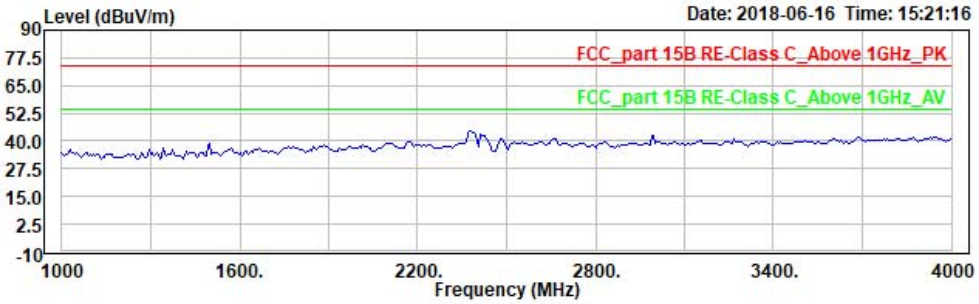

Site : 966 chamber
Condition: FCC_part 15B RE-Class C_Above 1GHz_PK 3m Vertical
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11g,ch1

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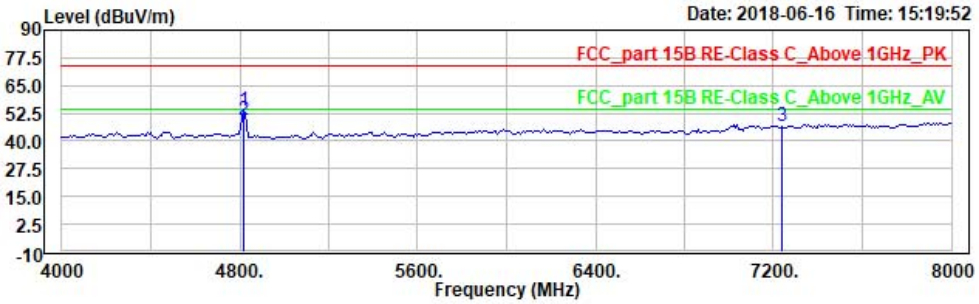

Site : 966 chamber
Condition: FCC_part 15B RE-Class C_Above 1GHz_PK 3m horizontal
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11g,ch1

	Freq	Read Level	Remark	Ant Factor	Level	Limit Line	APos	TPos	Over Limit	Note2
	MHz	dBuV		dB/m	dBuV/m	dBuV/m	cm	deg	dB	
1 PK	4817.635	53.05	peak	0.74	53.79	74.00	150	206	-20.21	
2 PP	4817.635	48.92	average	0.74	49.66	54.00	150	206	-4.34	
3	7236.000	40.91	peak	5.42	46.33	74.00	150	216	-27.67	

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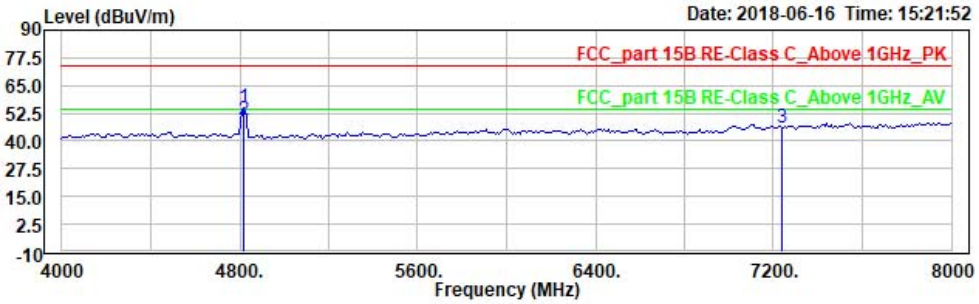

Site : 966 chamber
Condition: FCC_part 15B RE-Class C_Above 1GHz_PK 3m Vertical
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11g,ch1

	Freq	Read Level	Remark	Ant Factor	Level	Limit Line	APos	TPos	Over Limit	Note2
	MHz	dBuV		dB/m	dBuV/m	dBuV/m	cm	deg	dB	
1 PK	4817.635	54.64	peak	0.74	55.38	74.00	150	178	-18.62	
2 PP	4817.635	49.02	average	0.74	49.76	54.00	150	178	-4.24	
3	7236.000	40.85	peak	5.42	46.27	74.00	150	133	-27.73	

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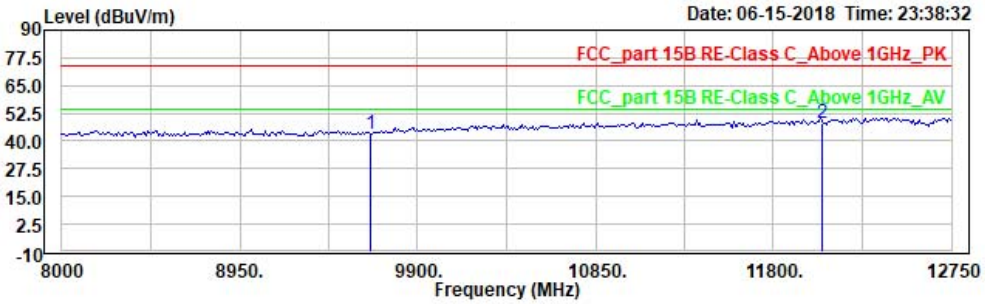

Site : 966 chamber
Condition: FCC_part 15B RE-Class C_Above 1GHz_PK 3m horizontal
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11g,ch1

	Freq	Read Level	Remark	Ant Factor	Level	Limit Line	APos	TPos	Over Limit	Note2
	MHz	dBuV		dB/m	dBuV/m	dBuV/m	cm	deg	dB	
1	9648.000	35.18	peak	8.28	43.46	74.00	150	355	-30.54	
2	PP12060.000	34.11	peak	14.17	48.28	74.00	150	158	-25.72	

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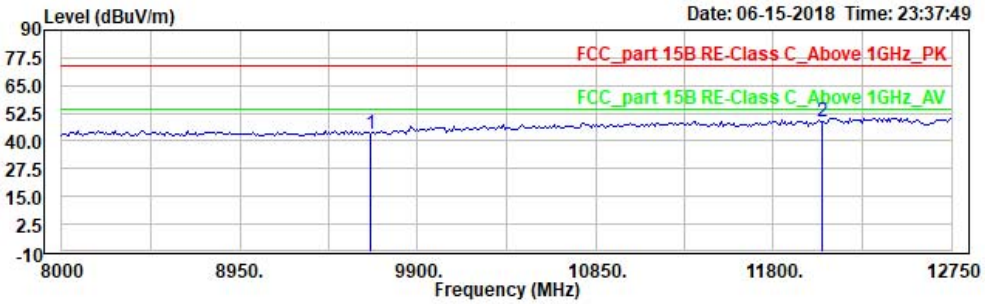

Site : 966 chamber
Condition: FCC_part 15B RE-Class C_Above 1GHz_PK 3m Vertical
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11g,ch1

	Freq	Read Level	Remark	Ant Factor	Level	Limit Line	APos	TPos	Over Limit	Note2
	MHz	dBuV		dB/m	dBuV/m	dBuV/m	cm	deg	dB	
1	9648.000	34.54	peak	8.28	42.82	74.00	150	211	-31.18	
2	PP12060.000	34.36	peak	14.17	48.53	74.00	150	360	-25.47	

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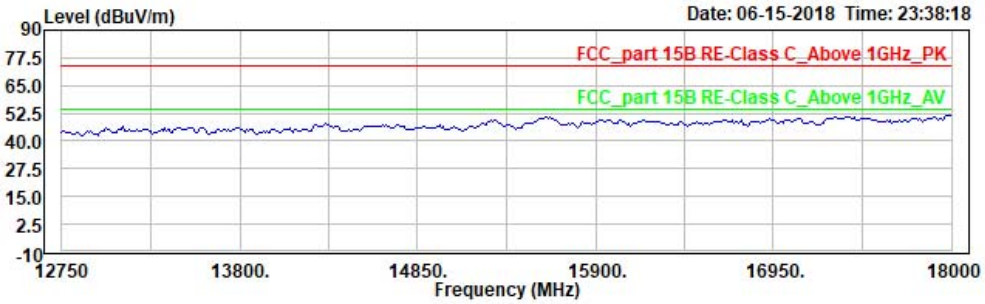

Site : 966 chamber
Condition: FCC_part 15B RE-Class C_Above 1GHz_PK 3m horizontal
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11g,ch1

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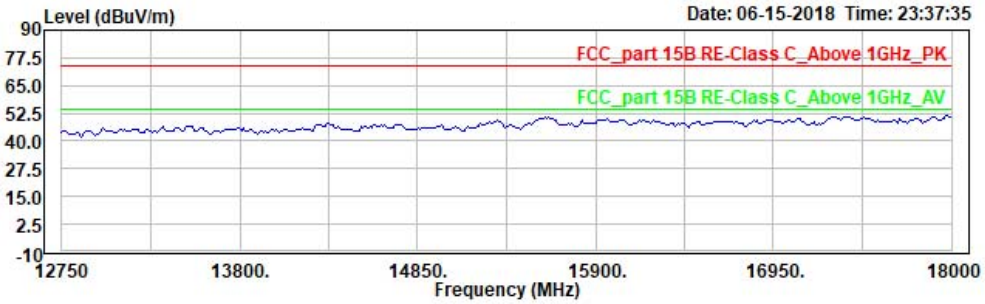

Site : 966 chamber
Condition: FCC_part 15B RE-Class C_Above 1GHz_PK 3m Vertical
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11g,ch1

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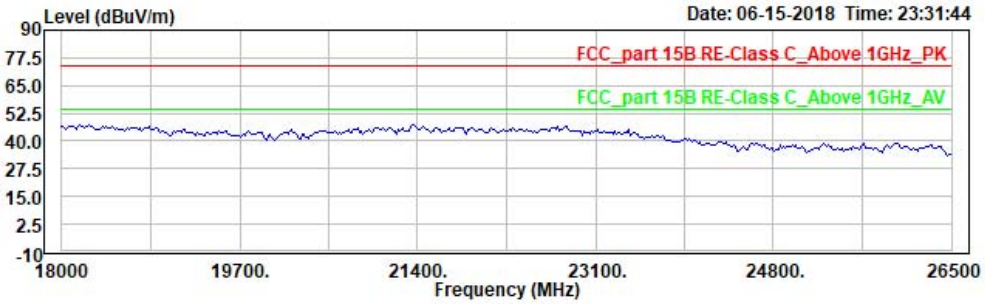

Site : 966 chamber
Condition: FCC_part 15B RE-Class C_Above 1GHz_PK 3m horizontal
EUT: W6M21806-18161
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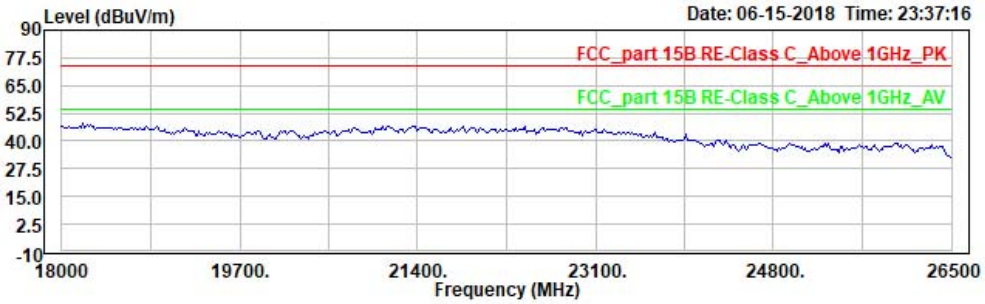


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Site     : 966 chamber
Condition: FCC_part 15B RE-Class C_Above 1GHz_PK 3m Vertical
EUT: W6M21806-18161
Mode:
Power: 3.7 Vd.c.
Operator: Vincent
Note: 2.4G,TX,802.11g,ch1
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