

47 CFR PART 15 SUBPART C TEST REPORT

for

Smart Home Alarm System

Model No.: HSGW-Gen2-V1

FCC ID: GX9HSGWGEN2

of

Applicant: **CLIMAX TECHNOLOGY CO., LTD.**

Address: No. 258, Sinhu 2nd Rd., Neihu District, Taipei City 114,
Taiwan (R.O.C.)

Tested and Prepared

by

Worldwide Testing Services (Taiwan) Co., Ltd.

FCC Registration No.: TW1477, TW1072

Industry Canada filed test laboratory Reg. No.: 20037, 5107A



Report No.: W6M22207-21977-C-9

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



Registration number: W6M22207-21977-C-9
FCC ID: GX9HSGWGEN2

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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.

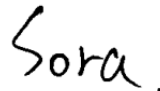
Furthermore, there is no guarantee that a test sample which has passed all the relevant tests conforms to a specification.

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 its performance generally conforms to representative cases of communications equipment.

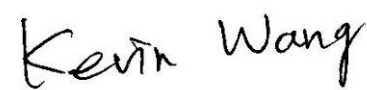
Laboratory disclaimer-

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

Tester:

September 28, 2022	Sora Kuo	
_____	_____	_____
Date	WTS-Lab. Name	Signature

Technical responsibility for area of testing:

September 28, 2022	Kevin Wang	
_____	_____	_____
Date	WTS Name	Signature



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1.2 Testing laboratory

1.2.1 Location

10m 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

Worldwide Testing Services (Taiwan) Co., Ltd.

6F., No. 58, Ln. 188, Ruiguang Rd., Neihu Dist.,
Taipei City 114, Taiwan (R.O.C.)

Tel: 886-2-6606-8877

1.2.2 Details of accreditation status

Accredited testing laboratory

FCC filed test laboratory Reg. No.: TW1477, TW1072

Industry Canada filed test laboratory Reg. No.: 20037, 5107A

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

Name: ./.

Accredited number: ./.

Street: ./.

Town: ./.

Country: ./.

1.3 Details of approval holder

Name: CLIMAX TECHNOLOGY CO., LTD.

Street: No. 258, Sinhu 2nd Rd., Neihu District,

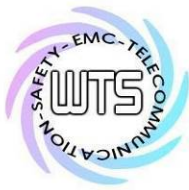
City: Taipei City 114,

Country: Taiwan (R.O.C.)

1.4 Application details

Date of receipt of test item: July 18, 2022

Date of test: From July 19, 2022 to September 26, 2022



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1.5 General information of Test item

Type of test item: Smart Home Alarm System

Model number: HSGW-Gen2-V1

Multi-listing model number: ./.

Sample no.: #01

Technical data

Frequency band: 902-928 MHz

Operation frequency: 908.4 MHz, 916 MHz, 919.8 MHz, 921.4 MHz

Operation modes: Half-duplex

Modulation type: FSK

Antenna type: PCB Antenna

Power supply: 120 Va.c., Battery 7.2 Vd.c.

Manufacturer: (if different from applicant)

Name: ./.

Street: ./.

Town: ./.

Country: ./.

1.6 Test standards

47 CFR PART 15 SUBPART C § 15.249 (2020-10)



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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 were ascertained in the course of the tests performed.

2.2 Test environment

Relative humidity content: 20 ... 75 %
 Air pressure: 86 ... 103 kPa
 Details Power supply: 120 Va.c., Battery 7.2 Vd.c.
 Extreme conditions parameters: Not required

Test item Name	Uncertainty
Estimation Result of Uncertainty of Conducted Emission (Power Line Conducted Emission)	Expanded Uncertainty : AMN : 1.03 dB Voltage probe : 1.05 dB
Estimation Result of Uncertainty of Radiated Emission(3M) (Peak Output Power (transmitter), Equivalent isotropic radiated power, RF Exposure Compliance Requirements, Out of Band Radiated Emissions, Spurious emission (tx), Radiated Emissions from Receiver Part)	Expanded Uncertainty : 0.009-30 MHz : 3.48 dB 30-1000 MHz : 4.48 dB 1-18 GHz : 4.15 dB 18-40 GHz : 3.78 dB
Estimation Result of Uncertainty of Band Edge Measurement (Radiated Emission on the band edge)	Expanded Uncertainty : 0.67 dBc
Estimation Result of Uncertainty of Bandwidth Measurement (Occupied Bandwidth)	Expanded Uncertainty : 0.45 kHz

The decision rule is: Measurement uncertainty is not included in the calculation of test results.



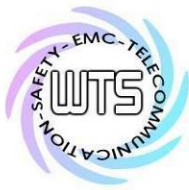
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2.3 Test Equipment List

No.	Test equipment	Type	Serial No.	Manufacturer	Cal. Date	Next Cal. Date
ETSTW-CE 001	EMI TEST RECEIVER	ESHS10	842121/013	R&S	2022/6/22	2023/6/21
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	2021/11/9	2022/11/8
ETSTW-CE 006	IMPULSBEGRENZER PULSE LIMITER	ESH3-Z2	100226	R&S	2022/9/16	2023/9/15
ETSTW-CE 008	HF-EICHLITUNG 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	2022/8/3	2023/8/2
ETSTW-CE 016	TWO-LINE V-NETWORK	ENV216	100050	R&S	2021/11/8	2022/11/7
ETSTW-CE 028	MXE EMI Receiver	N9038A	MY53220110	Agilent	2022/7/29	2023/7/28
ETSTW-RE 003	EMI TEST RECEIVER	ESI 26	831438/001	R&S	2022/6/21	2023/6/20
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2022/9/16	2023/9/15
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	2022/8/18	2023/8/17
ETSTW-RE 019	MICROWAVE HORN ANTENNA	22240-25	121074	FM	2022/6/13	2023/6/12
ETSTW-RE 027	Passive Loop Antenna	6512	00034563	ETS-Lindgren	2022/6/22	2023/6/21
ETSTW-RE 030	Double-Ridged Guide Horn Antenna	3117	00035224	ETS-Lindgren	2022/5/23	2023/5/22
ETSTW-RE 042	Biconical Antenna	HK116	100172	R&S	2022/3/4	2023/3/3
ETSTW-RE 043	Log-Periodic Dipole Antenna	HL223	100166	R&S	2022/6/28	2023/6/27
ETSTW-RE 044	Log-Periodic Antenna	HL050	100094	R&S	2022/8/1	2023/7/31
ETSTW-RE 045	ESA-E SERIES SPECTRUM ANALYZER	E4404B	MY45111242	Agilent	Pre-test Use	
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2022/2/18	2023/2/17
ETSTW-RE 051	Attenuator 6dB	50HF-006-1	None	JFW	2022/2/18	2023/2/17
ETSTW-RE 053	Attenuator 3dB	50HF-003-1	None	JFW	2022/2/18	2023/2/17
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2022/3/28	2023/3/27
ETSTW-RE 060	Attenuator 30dB	5015-30	F651012z-01	ATM	2022/2/18	2023/2/17
ETSTW-RE 062	Amplifier Module	CHC 2	None	KMIC	2022/5/13	2023/5/12
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	2021/10/27	2022/10/26
ETSTW-RE 088	SOLID STATE AMPLIFIER	KMA180265A01	99057	KMIC	2022/9/16	2023/9/15
ETSTW-RE 091	Match Pad	MDCS1500	None	WOKEN	2022/6/9	2023/6/8
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2022/2/18	2023/2/17
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	2022/1/5	2023/1/4



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ETSTW-RE 120	RF Player	MP9200	MP9210-111022	ADIVIC	2021/10/29	2022/10/28
ETSTW-RE 122	SIGNAL GENERATOR	SMF100A	102149	R&S	2022/6/20	2023/6/19
ETSTW-RE 125	5GHz Notch filter	5NSL11-5200/E221.3-O/O	1	K&L Microwave	2022/8/3	2023/8/2
ETSTW-RE 126	5GHz Notch filter	5NSL12-5800/E221.3-O/O	1	K&L Microwave	2022/8/3	2023/8/2
ETSTW-RE 127	RF Switch Box	RFS-01	None	WTS	2022/2/18	2023/2/17
ETSTW-RE 128	5.3GHz Notch filter	N0153001	SN487233	Microwave Circuits	2022/8/3	2023/8/2
ETSTW-RE 129	5.5GHz Notch filter	N0555984	SN487234	Microwave Circuits	2022/8/3	2023/8/2
ETSTW-RE 130	Handheld RF Spectrum Analyzer	N9340A	CN0147000204	Agilent	Pre-test Use	
ETSTW-RE 142	Amplifier	8447D	2805A03378	Agilent	2022/5/13	2023/5/12
ETSTW-RE 146	Preamplifier	JPA-10M1G	15090004	JPT	2022/5/27	2023/5/26
ETSTW-RE 152	Bi-log Hybrid Antenna	MCTD 2786B	BLB20J04029	ETC	2021/10/5	2022/10/4
ETSTW-RE 153	Signal Analyzer	FSV40	101929	R&S	2022/9/16	2023/9/15
ETSTW-RE 159	Bi-log Hybrid Antenna (30M~1000 MHz)	MCTD 2786B	BLB21N04035	ETC	2021/12/06	2022/12/05
ETSTW-RF 002	Electromagnetic field probe	LF-30	K-0007	STT	2022/7/14	2023/7/13
ETSTW-EMI 011	USB Compact Modulator	SFC-U	101689	R&S	2022/6/10	2023/6/9
ETSTW-GSM 002	Universal Radio Communication Tester	CMU 200	109439	R&S	2022/3/28	2023/3/27
ETSTW-GSM 003	Radio Communication Analyzer	MT8820C	6201342073	Anritsu	2022/5/9	2023/5/8
ETSTW-GSM 004	Wideband Radio Communication Tester	CMW500	128092	R&S	2021/10/29	2022/10/28
ETSTW-GSM 019	Band Reject Filter	WRCTF824/849-822/851-40 /12+9SS	3	WI	2022/1/5	2023/1/4
ETSTW-GSM 020	Band Reject Filter	WRCD1747/1748-1743/1752-32/5SS	1	WI	2022/1/5	2023/1/4
ETSTW-GSM 021	Band Reject Filter	WRCD1879.5/1880.5-1875.5/1884.5-32/5SS	3	WI	2022/1/5	2023/1/4
ETSTW-GSM 022	Band Reject Filter	WRCT901.9/903.1-904.25-50/8SS	1	WI	2022/1/5	2023/1/4
ETSTW-GSM 023	Power Divider	4901.19.A	None	SUHNER	2022/9/2	2023/9/1
ETSTW-GSM 024	Radio Communication Analyzer	MT8821C	None	Anritsu	2022/5/3	2023/5/2
ETSTW-GSM 025	Band Reject Filter	BRM19835	001	Micro-Tronics	2022/8/3	2023/8/2
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	2022/2/18	2023/2/17
ETSTW-Cable 017	BNC Cable	X Cable	B Cable 2	Schwarz beck	2022/2/18	2023/2/17
ETSTW-Cable 018	BNC Cable	Y Cable	B Cable 3	Schwarz beck	2022/2/18	2023/2/17
ETSTW-Cable 019	BNC Cable	Z Cable	B Cable 4	Schwarz beck	2022/2/18	2023/2/17
ETSTW-Cable 020	N TYPE Cable	OATS Cable 1	N30N30-L335-15M	JYE BAO CO.,LTD.	2022/6/15	2023/6/14
ETSTW-Cable 027	Microwave Cable	SUCOFLEX 104	279083	HUBER+SUHNER	2022/5/6	2023/5/5
ETSTW-Cable 028	Microwave Cable	FA147A0015M2020	30064-2	UTIFLEX	2022/9/16	2023/9/15
ETSTW-Cable 029	Microwave Cable	FA147A0015M2020	30064-3	UTIFLEX	2022/9/16	2023/9/15
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S Cable 9)	279067	HUBER+SUHNER	2022/2/18	2023/2/17
ETSTW-Cable 043	Microwave Cable	SUCOFLEX 104	317576	HUBER+SUHNER	2022/5/13	2023/5/12



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ETSTW-Cable 047	Microwave Cable	SUCOFLEX 104	325518	HUBER+SUHNER	2022/7/1	2023/6/30
ETSTW-Cable 058	Microwave Cable	SUCOFLEX 104	none	HUBER+SUHNER	2022/5/27	2023/5/26
ETSTW-Cable 064	Microwave Cable	SUCOFLEX 104	MY28891	HUBER+SUHNER	2022/5/13	2023/5/12
ETSTW-Cable 071	N TYPE CABLE	EMCCFD400-NM-NM-25000	170239	EMCI	2022/5/27	2023/5/26
ETSTW-Cable 072	SMA type cable (8m)	SUCOFLEX 104	805800/4	HUBER+SUHNER	2022/5/13	2023/5/12
ETSTW-Cable 074	SMA type cable (2m)	SUCOFLEX 104	802563/4	HUBER+SUHNER	2022/5/13	2023/5/12
WTSTW-SW 002	EMI TEST SOFTWARE	EZ_EMC	None	Farad	Version ETS-03A1 Version EMEC-3A1+	
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	
ETSTW-TH 002	Thermohygrometer	608-H1	45204317	Testo	2022/9/16	2023/9/15
ETSTW-TH 003	Wireless weather station	GAIA	N/A	TFA	2021/10/18	2022/10/17



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2.4 General Test Procedure

POWER LINE CONDUCTED INTERFERENCE: The procedure used was ANSI STANDARD C63.10-2013 6.2 using a 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 dB μ V) 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 dB μ V + 10.36 dB + 6 dB = 36.36 dB μ V/m @3m

ANSI STANDARD C63.10-2013 6.2.2 MEASUREMENT PROCEDURES: The EUT was placed on a table 80 cm height and with dimensions of 1m by 1.5m (non metallic table). The EUT was placed in the centre of the table. The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to 10th harmonic of the fundamental.

Peak readings were taken in three (3) orthogonal planes and the highest readings.

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.

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.



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3 Test results (enclosure)

Test case	Para. Number	Required	Test passed	Test failed
Peak Output Power	15.249 (a)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Spurious Emissions radiated – Transmitter operating	15.249 (e)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Spurious Emissions conducted – Transmitter operating	15.249 (e)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Radiated Emission from Receiver Part	15.109	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Out of Band Spurious Emission, Band edge-Transmitter operating	15.249 (d)(e) 15.35 (b)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Power Line Conducted Emission	15.207	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

The following is intentionally left blank.



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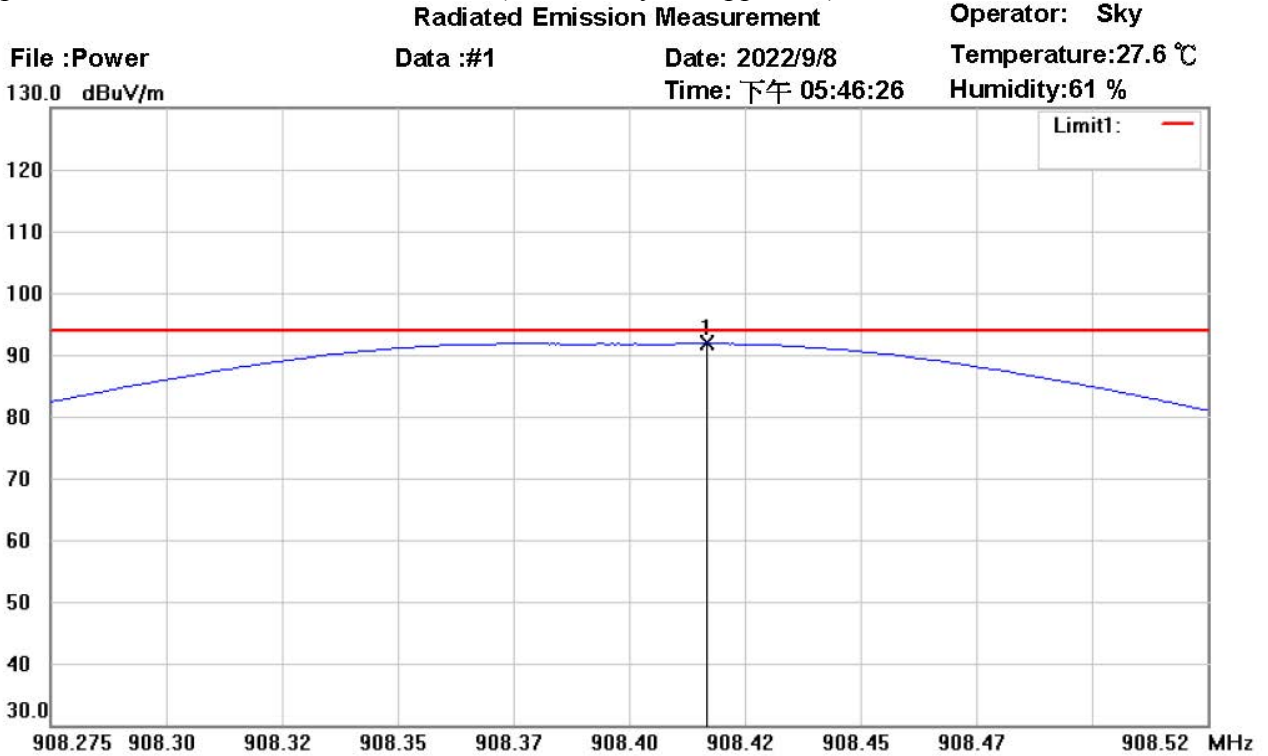
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3.1 Peak Output Power (transmitter)

FCC Rule: 15.249 (a)

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).



Site : Chamber

Condition : FCC 15.249 power(902-928)_QP

EUT : W6M22207-21977

M/N:

Test Mode : TX 908.4MHz

Note :

Polarization: *Horizontal*

Power : 120 Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	908.4168	60.37	QP	31.43	91.80	94.00	100	220	-2.20	



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Radiated Emission Measurement

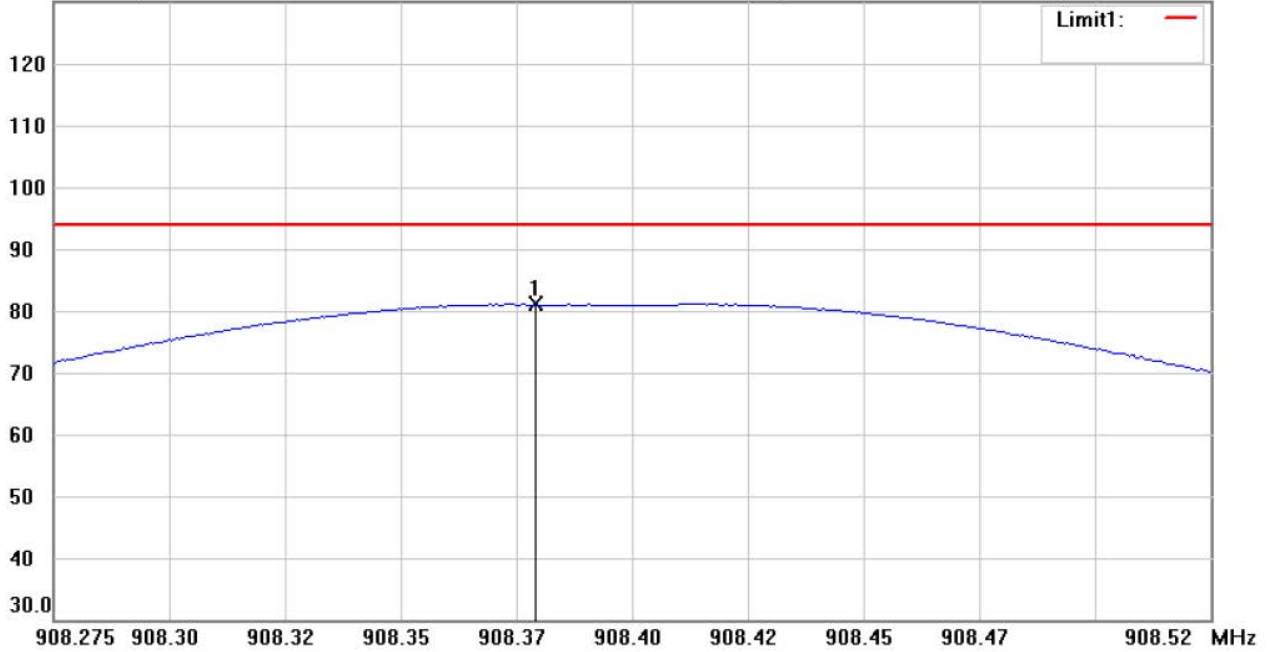
Operator: Sky

File :Power
 130.0 dBuV/m

Data :#2

Date: 2022/9/8
 Time: 下午 05:50:40

Temperature:27.6 °C
 Humidity:61 %



Site : Chamber

Condition : FCC 15.249 power(902-928)_QP

EUT : W6M22207-21977

M/N:

Test Mode : TX 908.4MHz

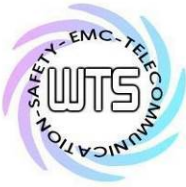
Note :

Polarization: *Vertical*

Power : 120 Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	908.3792	49.62	QP	31.43	81.05	94.00	100	160	-12.95	



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Radiated Emission Measurement

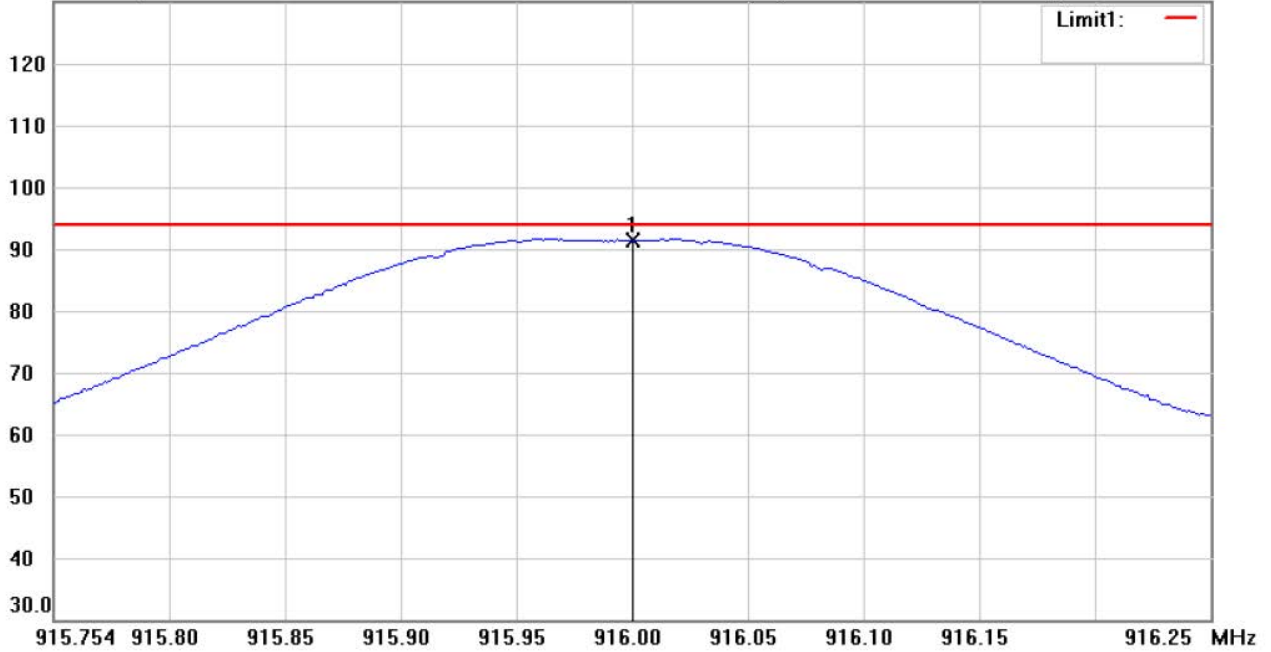
Operator: Sky

File :Power
 130.0 dBuV/m

Data :#1

Date: 2022/9/8
 Time: 下午 07:10:18

Temperature:27.6 °C
 Humidity:61 %



Site : Chamber

Condition : FCC 15.249 power(902-928)_QP

EUT : W6M22207-21977

M/N:

Test Mode : TX 916MHz

Note :

Polarization: *Horizontal*

Power : 120 Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	916.0040	59.79	QP	31.60	91.39	94.00	100	255	-2.61	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22207-21977-C-9
 FCC ID: GX9HSGWGEN2

Radiated Emission Measurement

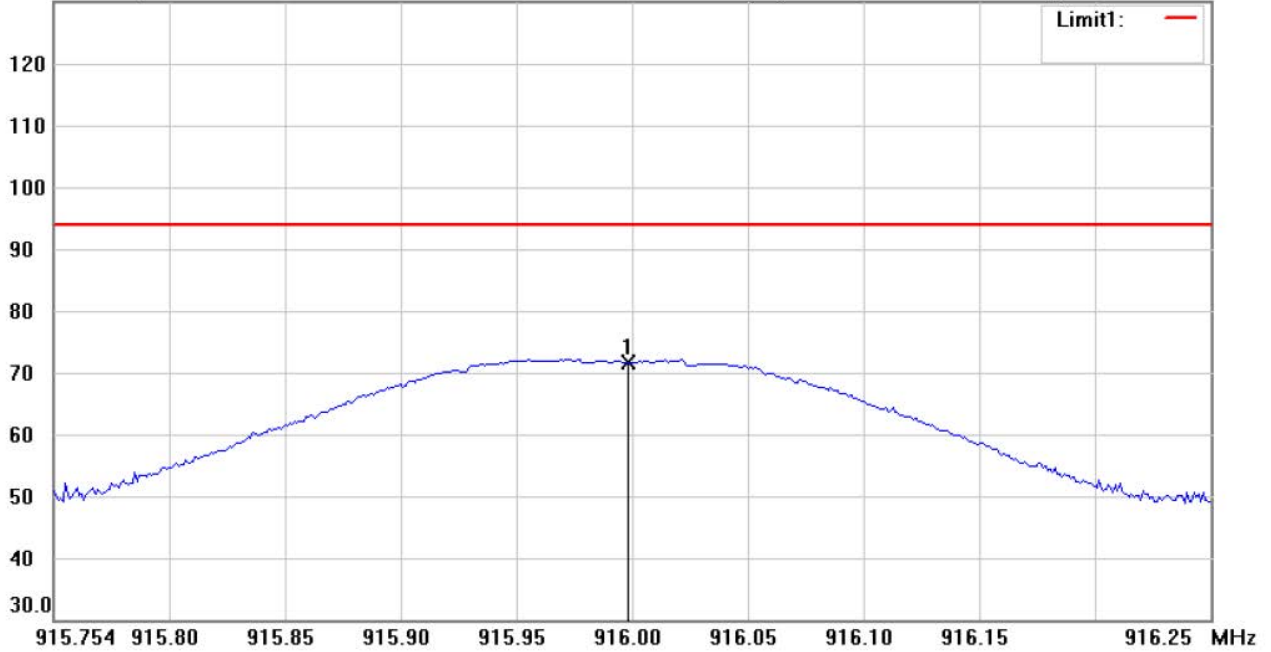
Operator: Sky

File :Power
 130.0 dBuV/m

Data :#2

Date: 2022/9/8
 Time: 下午 07:13:56

Temperature:27.6 °C
 Humidity:61 %



Site : Chamber

Condition : FCC 15.249 power(902-928)_QP

EUT : W6M22207-21977

M/N:

Test Mode : TX 916MHz

Note :

Polarization: *Vertical*

Power : 120 Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	916.0020	40.10	QP	31.60	71.70	94.00	100	130	-22.30	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22207-21977-C-9
 FCC ID: GX9HSGWGEN2

Radiated Emission Measurement

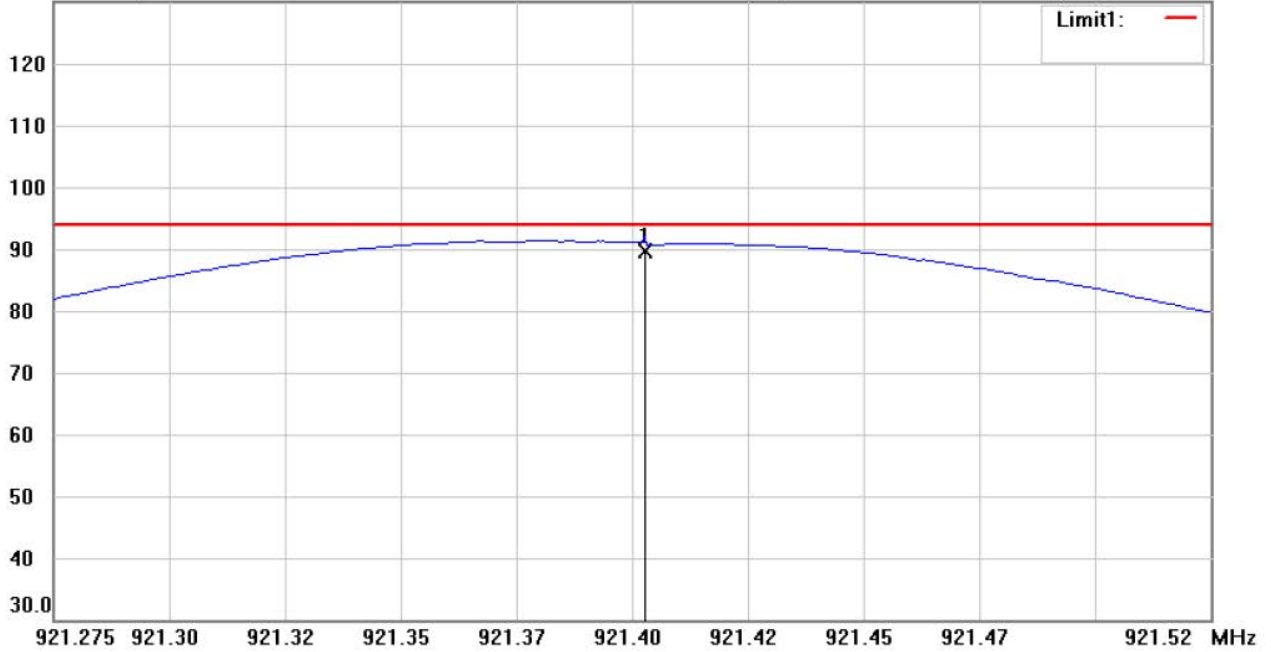
Operator: Sky

File :Power
 130.0 dBuV/m

Data :#1

Date: 2022/9/8
 Time: 下午 07:37:00

Temperature:27.6 °C
 Humidity:61 %



Site : Chamber

Condition : FCC 15.249 power(902-928)_QP

EUT : W6M22207-21977

M/N:

Test Mode : TX 921.4MHz

Note :

Polarization: *Horizontal*

Power : 120 Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	921.4028	57.96	QP	31.71	89.67	94.00	100	209	-4.33	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22207-21977-C-9
 FCC ID: GX9HSGWGEN2

Radiated Emission Measurement

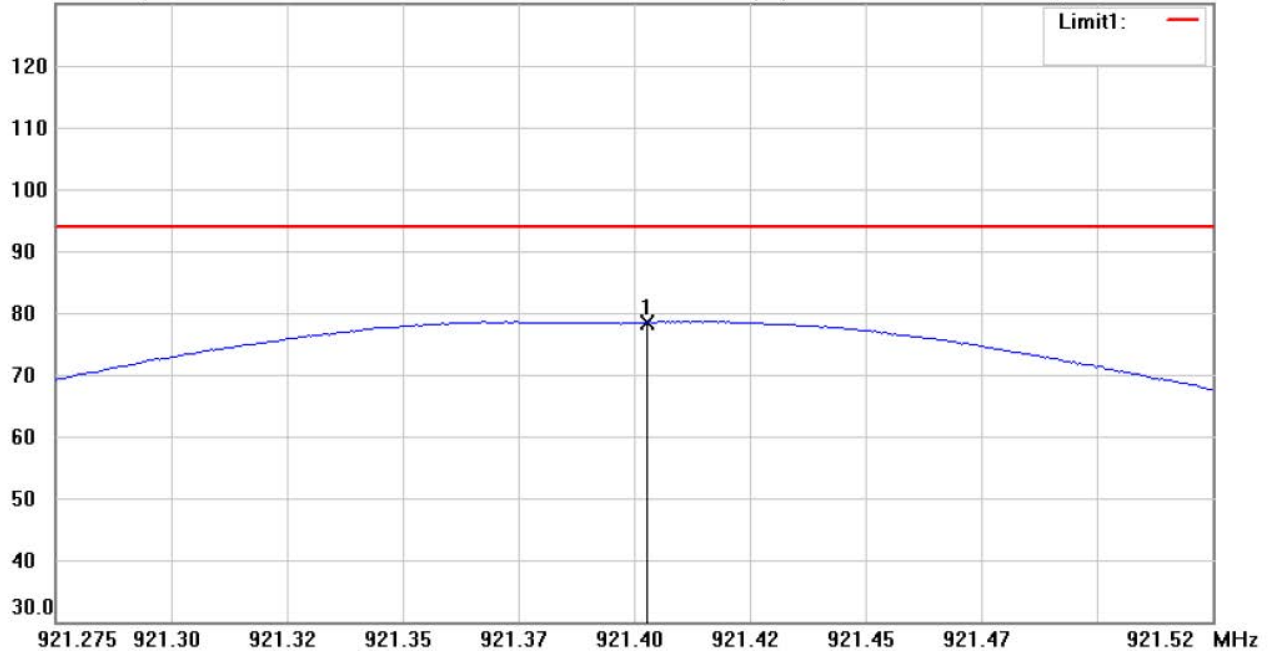
Operator: Sky

File :Power
 130.0 dBuV/m

Data :#2

Date: 2022/9/8
 Time: 下午 07:43:40

Temperature:27.6 °C
 Humidity:61 %



Site : Chamber

Condition : FCC 15.249 power(902-928)_QP

EUT : W6M22207-21977

M/N:

Test Mode : TX 921.4MHz

Note :

Polarization: *Vertical*

Power : 120 Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	921.4028	46.73	QP	31.71	78.44	94.00	100	180	-15.56	

Test equipment used: ETSTW-RE 004, ETSTW-RE 030, ETSTW-RE 062, ETSTW-RE 142, ETSTW-RE 152



Registration number: W6M22207-21977-C-9

FCC ID: GX9HSGWGEN2

3.2 Equivalent isotropic radiated power

Because using an permanent antenna there are no deviations from the radiated test results according 3.1.

3.3 RF Exposure Compliance Requirements

Not applicable for this EUT for the low power level.

3.4 Out of Band Radiated Emissions

FCC Rule: 15.249 (d)(e), 15.35 (b)

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

For frequency above 1000 MHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.

Limits:

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	46.5
Above 960	500	54.0

For frequencies above 1 GHz (Peak measurements).

Limit + 20 dB $54.0 \text{ dB}\mu\text{V/m} + 20 \text{ dB} = 74 \text{ dB}\mu\text{V/m}$

Or

Must be attenuated at least 50dB below the level of fundament

Test equipment used: ETSTW-RE 004, ETSTW-RE 062, ETSTW-RE 142, ETSTW-RE 152, ETSTW-RE 030

Explanation: Please see attached diagram as appendix.



Registration number: W6M22207-21977-C-9

FCC ID: GX9HSGWGEN2

3.5 Spurious emission (tx)

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

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

For frequencies above 1000 MHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.

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

The peak and average spurious emission plots was measured with the average limits.
The critical peak value listed in the table agree with the above calculated limits.

Summary table with radiated data of the test plots

Model: HSGW-Gen2-V1 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)
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--

Polarization: Vertical

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

Note

1. Correction Factor = Antenna factor + Cable loss - Pre-amplifier
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. Up Line: PK Limit Line, Down Line: Ave Limit Line.
6. Please see attached diagrams in appendix.

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

Test equipment used: ETSTW-RE 004, ETSTW-RE 062, ETSTW-RE 142, ETSTW-RE 152, ETSTW-RE 030, ETSTW-RE 088, ETSTW-RE 018



Registration number: W6M22207-21977-C-9

FCC ID: GX9HSGWGEN2

3.6 Radiated Emissions from Receiver Part

Summary table with radiated data of the test plots

Model: HSGW-Gen2-V1 Date: --
 Mode: -- Temperature: -- °C Engineer: --
 Polarization: -- 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) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		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. Please refer to the test report number: W6M22207-21977-P-15B.**

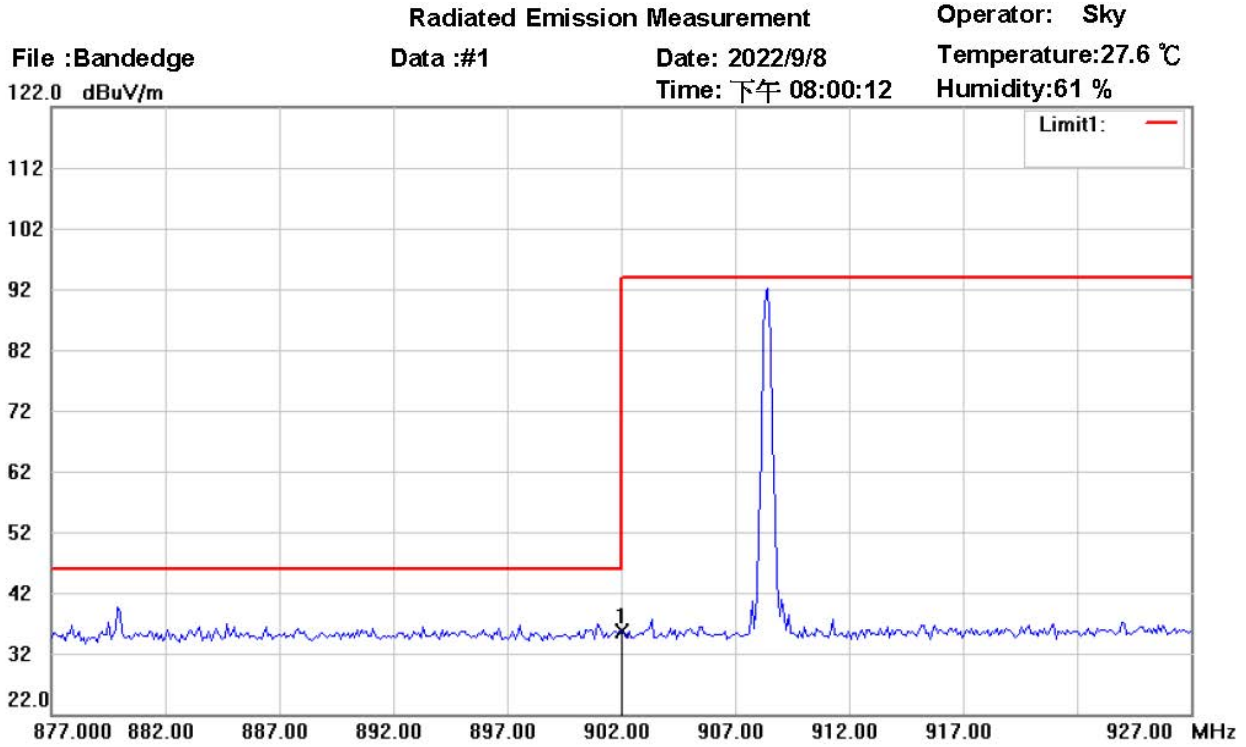
Test equipment used: ETSTW-RE 004, ETSTW-RE 062, ETSTW-RE 142, ETSTW-RE 152, ETSTW-RE 030



Registration number: W6M22207-21977-C-9
 FCC ID: GX9HSGWGEN2

3.7 Radiated Emission on the band edge

From the following plots, they show that the fundamental emissions are confined in the specified band and they are at least 50 dB below the carrier level at band edge (2400 and 2483.5 MHz). It meets the requirement of section 15.249(d).



Site : Chamber
 Condition : FCC 15.249 Bandedge(902-928)_QP Polarization: *Horizontal*
 EUT : W6M22207-21977 Power : 120 Va.c.
 M/N:
 Test Mode : TX 908.4MHz Distance: 3m
 Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	902.0000	4.33	peak	31.29	35.62	46.00	100	220	-10.38	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22207-21977-C-9
 FCC ID: GX9HSGWGEN2

Radiated Emission Measurement

Operator: Sky

File :Bandedge

Data :#2

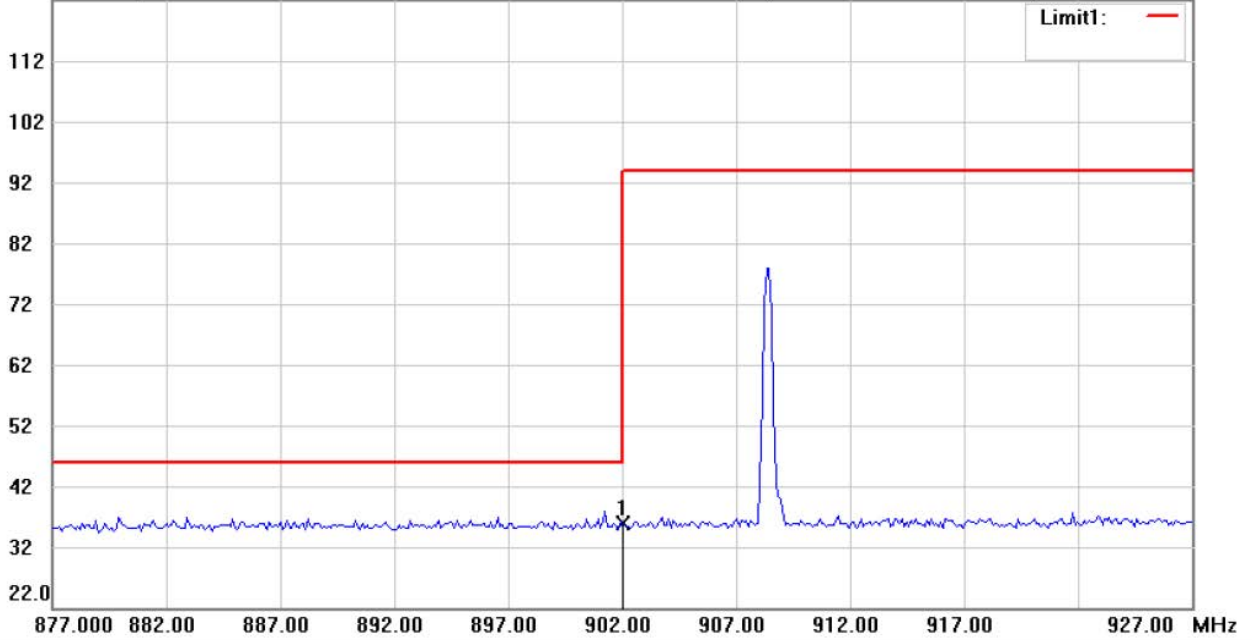
Date: 2022/9/8

Temperature:27.6 °C

122.0 dBuV/m

Time: 下午 08:03:36

Humidity:61 %



Site : Chamber

Condition : FCC 15.249 Bandedge(902-928)_QP

Polarization: *Vertical*

EUT : W6M22207-21977

Power : 120 Va.c.

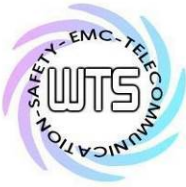
M/N:

Distance: 3m

Test Mode : TX 908.4MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	902.0000	4.56	peak	31.29	35.85	46.00	100	101	-10.15	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22207-21977-C-9
 FCC ID: GX9HSGWGEN2

Radiated Emission Measurement

Operator: Sky

File :Bandedge

Data :#1

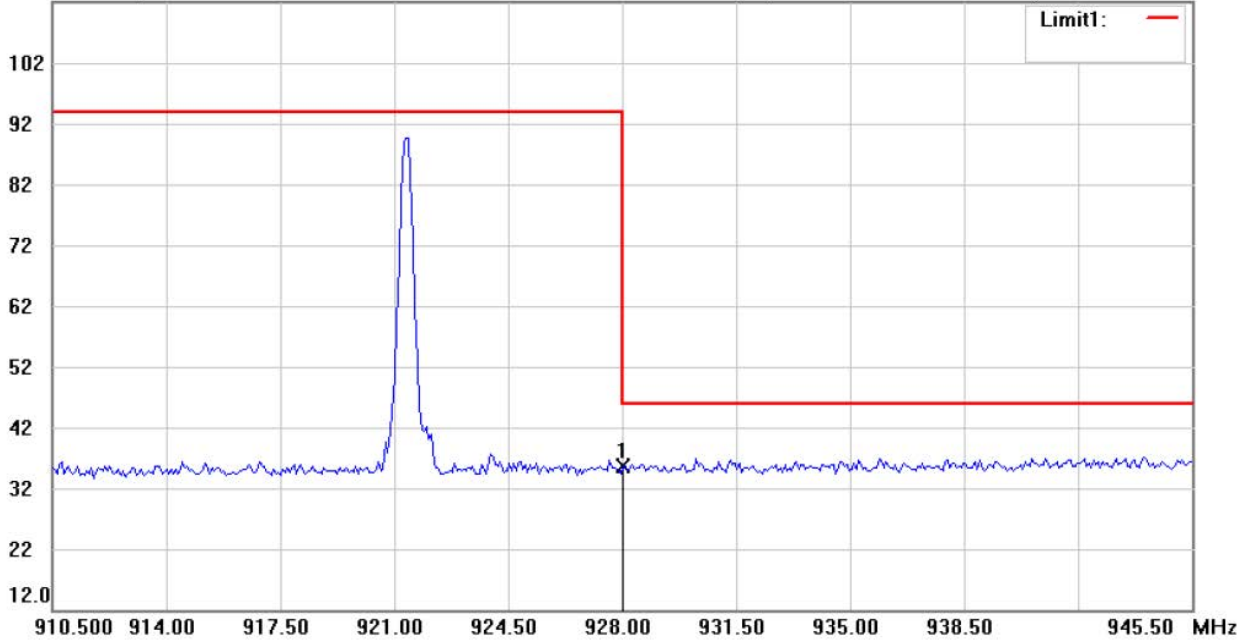
Date: 2022/9/8

Temperature:27.6 °C

112.0 dBuV/m

Time: 下午 07:49:24

Humidity:61 %



Site : Chamber

Condition : FCC 15.249 Bandedge(902-928)_QP

Polarization: *Horizontal*

EUT : W6M22207-21977

Power : 120 Va.c.

M/N:

Distance: 3m

Test Mode : TX 921.4MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	928.0000	3.75	QP	31.85	35.60	46.00	100	210	-10.40	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22207-21977-C-9
 FCC ID: GX9HSGWGEN2

Radiated Emission Measurement

Operator: Sky

File :Bandedge

Data :#2

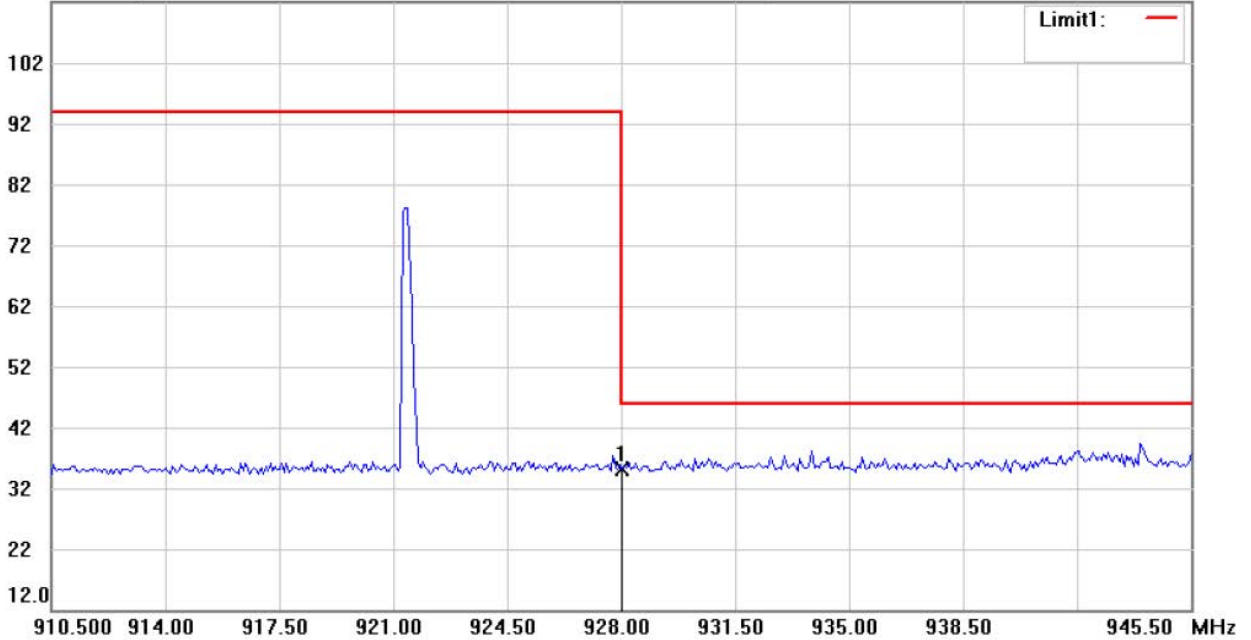
Date: 2022/9/8

Temperature:27.6 °C

112.0 dBuV/m

Time: 下午 07:50:48

Humidity:61 %



Site : Chamber

Condition : FCC 15.249 Bandedge(902-928)_QP

Polarization: *Vertical*

EUT : W6M22207-21977

Power : 120 Va.c.

M/N:

Distance: 3m

Test Mode : TX 921.4MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	928.0000	3.25	peak	31.85	35.10	46.00	100	180	-10.90	

Limit:

Frequency Range (MHz)	Limit (dBuV/m)	
	Peak	Average
902 – 928	114	94
2400 – 2483.5	74	54
5725 – 5875	74	54

Test equipment used: ETSTW-RE 004, ETSTW-RE 030, ETSTW-RE 062, ETSTW-RE 142, ETSTW-RE 152



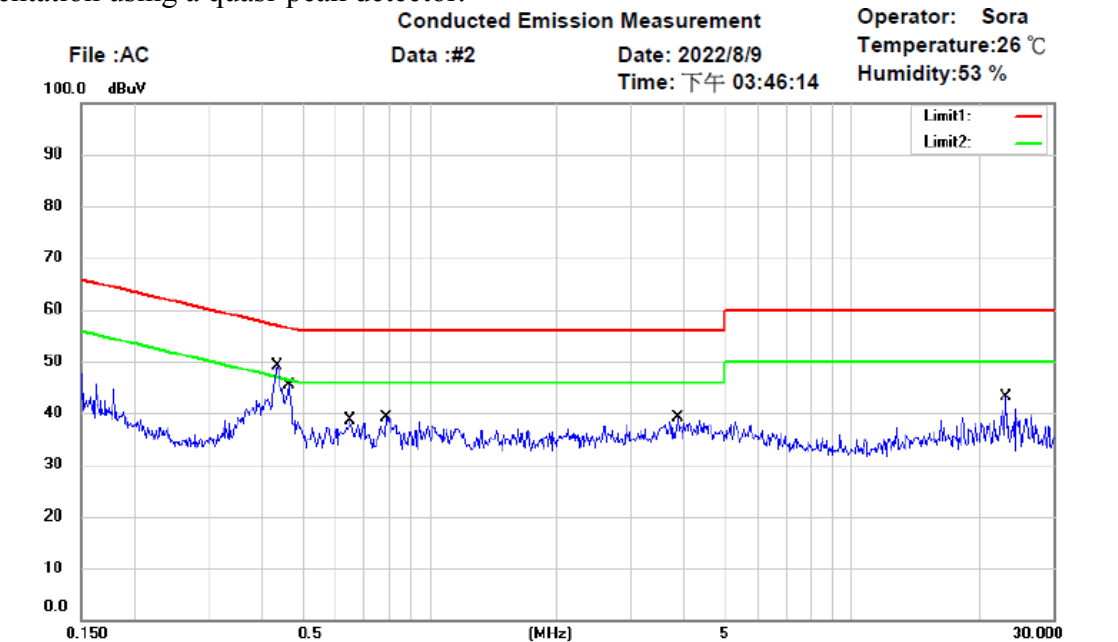
Registration number: W6M22207-21977-C-9

FCC ID: GX9HSGWGEN2

3.8 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.



Site : Chamber_03

Condition : FCC Part 15 Class B Conduction (QP)

Phase: N

EUT : W6M22207-21977

Power : 120 Va.c.

M/N:

Test Mode :

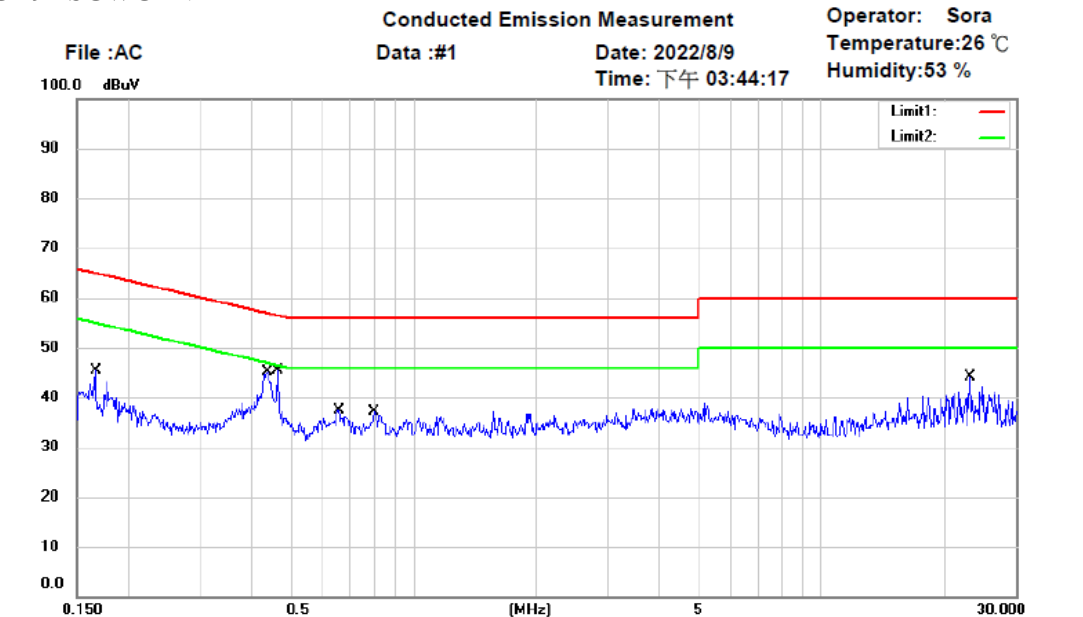
Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.4358	34.71	QP	9.59	44.30	57.14	-12.84	
*	0.4358	29.82	AVG	9.59	39.41	47.14	-7.73	
	0.4650	29.08	QP	9.59	38.67	56.60	-17.93	
	0.4650	14.03	AVG	9.59	23.62	46.60	-22.98	
	0.6507	22.53	QP	9.59	32.12	56.00	-23.88	
	0.6507	13.64	AVG	9.59	23.23	46.00	-22.77	
	0.7902	20.68	QP	9.58	30.26	56.00	-25.74	
	0.7902	13.02	AVG	9.58	22.60	46.00	-23.40	
	3.8750	16.51	QP	9.76	26.27	56.00	-29.73	
	3.8750	10.59	AVG	9.76	20.35	46.00	-25.65	
	23.1375	10.50	QP	10.26	20.76	60.00	-39.24	
	23.1375	6.55	AVG	10.26	16.81	50.00	-33.19	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22207-21977-C-9
 FCC ID: GX9HSGWGEN2



Site : Chamber_03
 Condition : FCC Part 15 Class B Conduction (QP) Phase: L1
 EUT : W6M22207-21977 Power : 120 Va.c.
 M/N:
 Test Mode :
 Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1666	19.06	QP	9.61	28.67	65.13	-36.46	
	0.1666	9.87	AVG	9.61	19.48	55.13	-35.65	
	0.4382	30.49	QP	9.60	40.09	57.10	-17.01	
*	0.4382	27.82	AVG	9.60	37.42	47.10	-9.68	
	0.4648	28.21	QP	9.60	37.81	56.61	-18.80	
	0.4648	20.13	AVG	9.60	29.73	46.61	-16.88	
	0.6552	22.51	QP	9.59	32.10	56.00	-23.90	
	0.6552	13.33	AVG	9.59	22.92	46.00	-23.08	
	0.8015	21.42	QP	9.59	31.01	56.00	-24.99	
	0.8015	11.88	AVG	9.59	21.47	46.00	-24.53	
	23.1375	12.91	QP	10.04	22.95	60.00	-37.05	
	23.1375	6.88	AVG	10.04	16.92	50.00	-33.08	

- Note:**
- The formula of measured value as: Test Result = Reading + Correction Factor
 - The Correction Factor = Cable Loss + LISN Insertion Loss
 - Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average
 - All not in the table noted test results are more than 20 dB below the relevant limits.
 - 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.



Registration number: W6M22207-21977-C-9
FCC ID: GX9HSGWGEN2

Appendix

Measurement diagrams

Spurious Emissions radiated



Radiated Emission Measurement

Operator: Sky

File :1

Data :#1

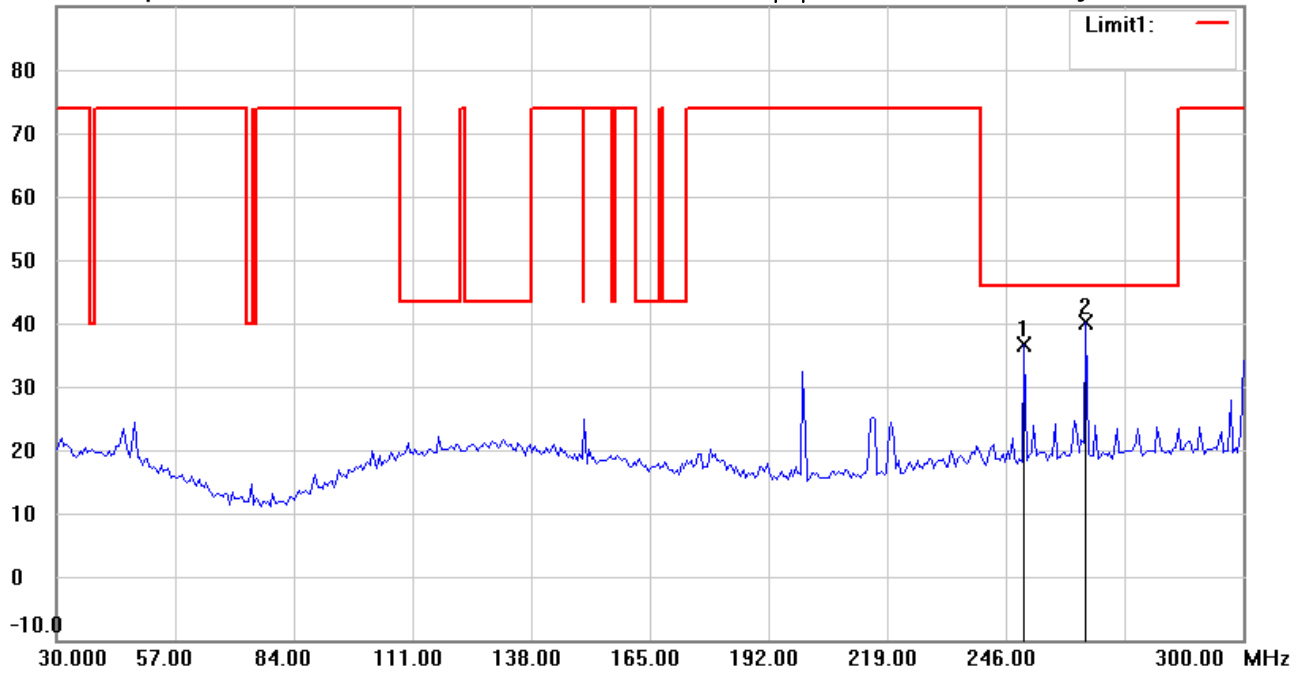
Date: 2022/9/8

Temperature:27.6 °C

90.0 dBuV/m

Time: 下午 09:36:00

Humidity:61 %



Site : Chamber

Condition : FCC Restriction Band 30-300

Polarization: **Horizontal**

EUT : W6M22207-21977

Power : 120 Va.c.

M/N:

Distance: 3m

Test Mode : TX 908.4MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	250.2204	44.25	peak	-7.55	36.70	46.00	102	90	-9.30	
*	264.2886	47.06	peak	-6.82	40.24	46.00	100	6	-5.76	



Radiated Emission Measurement

Operator: Sky

File :1

Data :#2

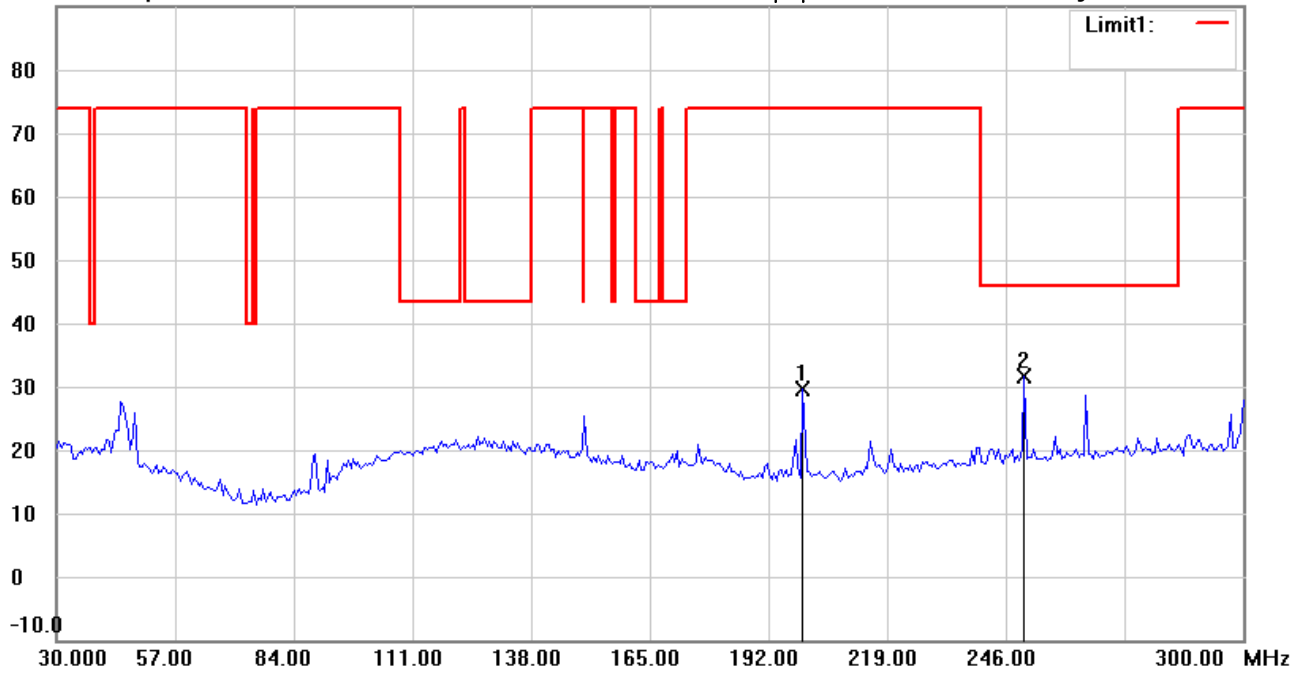
Date: 2022/9/8

Temperature:27.6 °C

90.0 dBuV/m

Time: 下午 09:37:25

Humidity:61 %



Site : Chamber

Condition : FCC Restriction Band 30-300

EUT : W6M22207-21977

M/N:

Test Mode : TX 908.4MHz

Note :

Polarization: **Vertical**

Power : 120 Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	199.8998	40.30	peak	-10.74	29.56	74.00	110	16	-44.44	
*	250.2204	39.16	peak	-7.55	31.61	46.00	102	210	-14.39	



Radiated Emission Measurement

Operator: Sky

File :2

Data :#1

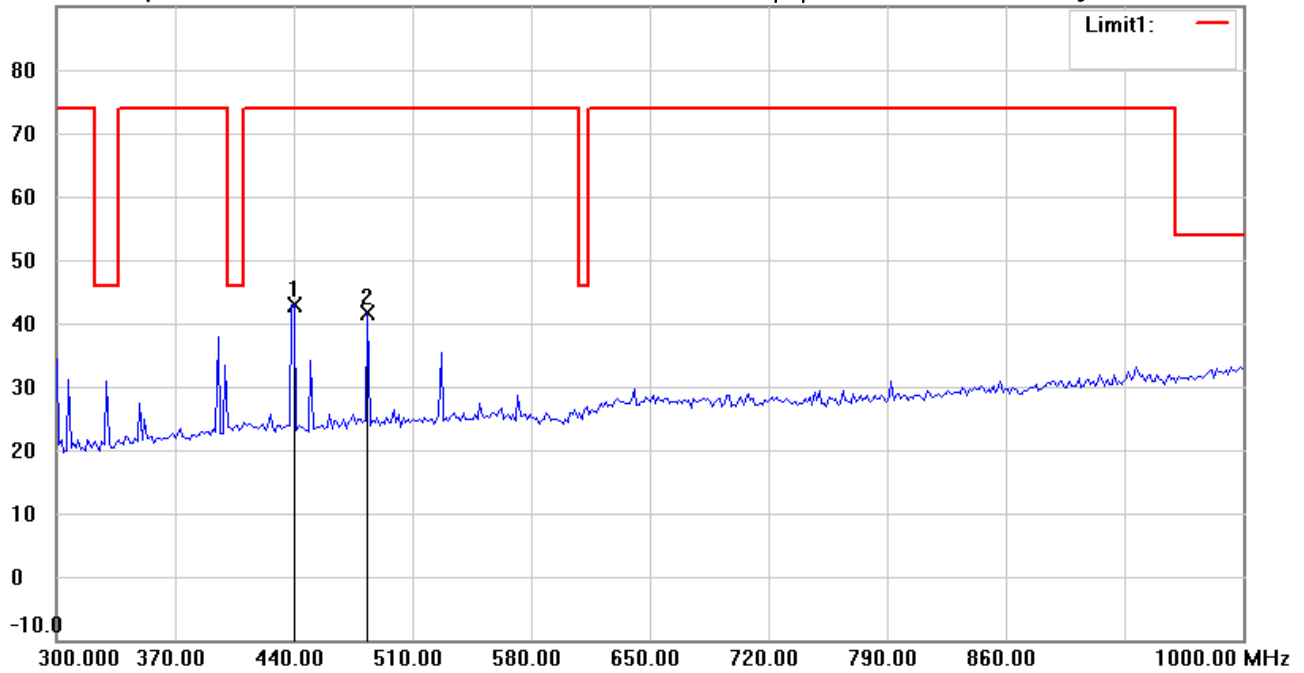
Date: 2022/9/8

Temperature:27.6 °C

90.0 dBuV/m

Time: 下午 09:56:45

Humidity:61 %



Site : Chamber

Condition : FCC Restriction Band 300-1000

Polarization: *Horizontal*

EUT : W6M22207-21977

Power : 120 Va.c.

M/N:

Distance: 3m

Test Mode : TX 908.4MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	440.2805	46.28	peak	-3.43	42.85	74.00	100	304	-31.15	
	483.7674	44.85	peak	-3.11	41.74	74.00	100	219	-32.26	



Radiated Emission Measurement

Operator: Sky

File :2

Data :#2

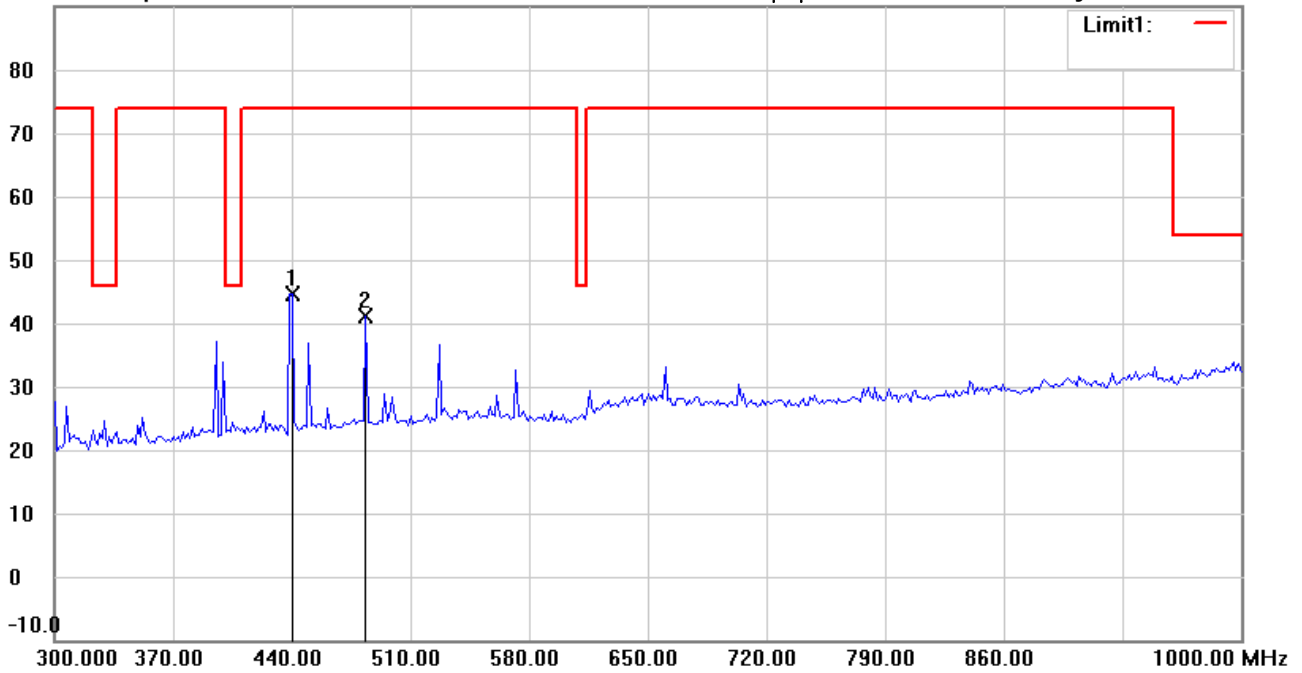
Date: 2022/9/8

Temperature:27.6 °C

90.0 dBuV/m

Time: 下午 09:58:33

Humidity:61 %



Site : Chamber

Condition : FCC Restriction Band 300-1000

Polarization: **Vertical**

EUT : W6M22207-21977

Power : 120 Va.c.

M/N:

Distance: 3m

Test Mode : TX 908.4MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	440.2806	48.03	peak	-3.43	44.60	74.00	100	40	-29.40	
	483.7675	44.18	peak	-3.11	41.07	74.00	100	211	-32.93	



Radiated Emission Measurement

Operator: Sky

File :3

Data :#1

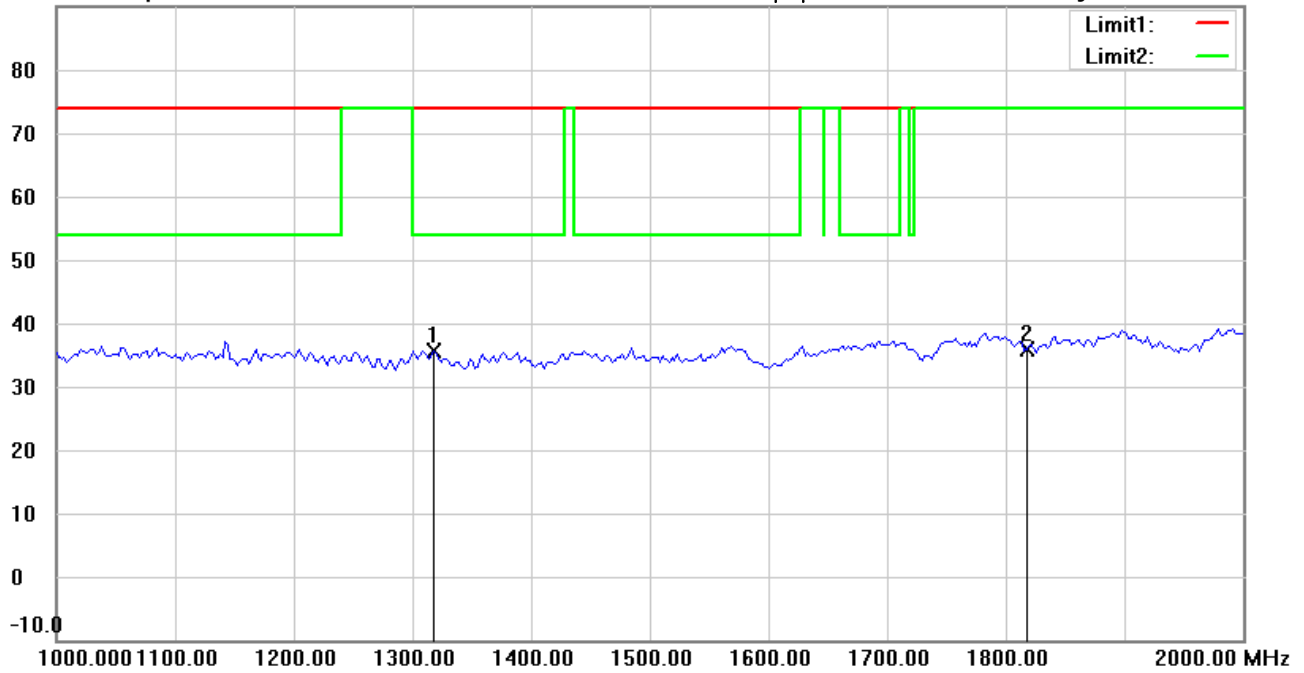
Date: 2022/9/8

Temperature:27.6 °C

90.0 dBuV/m

Time: 下午 11:31:31

Humidity:61 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M22207-21977

Power : 120 Va.c.

M/N:

Distance: 3m

Test Mode : TX 908.4MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	1318.637	43.70	peak	-7.95	35.75	74.00	150	109	-38.25	
*	1816.800	41.37	peak	-5.45	35.92	74.00	150	4	-38.08	



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Radiated Emission Measurement

Operator: Sky

File :3

Data :#5

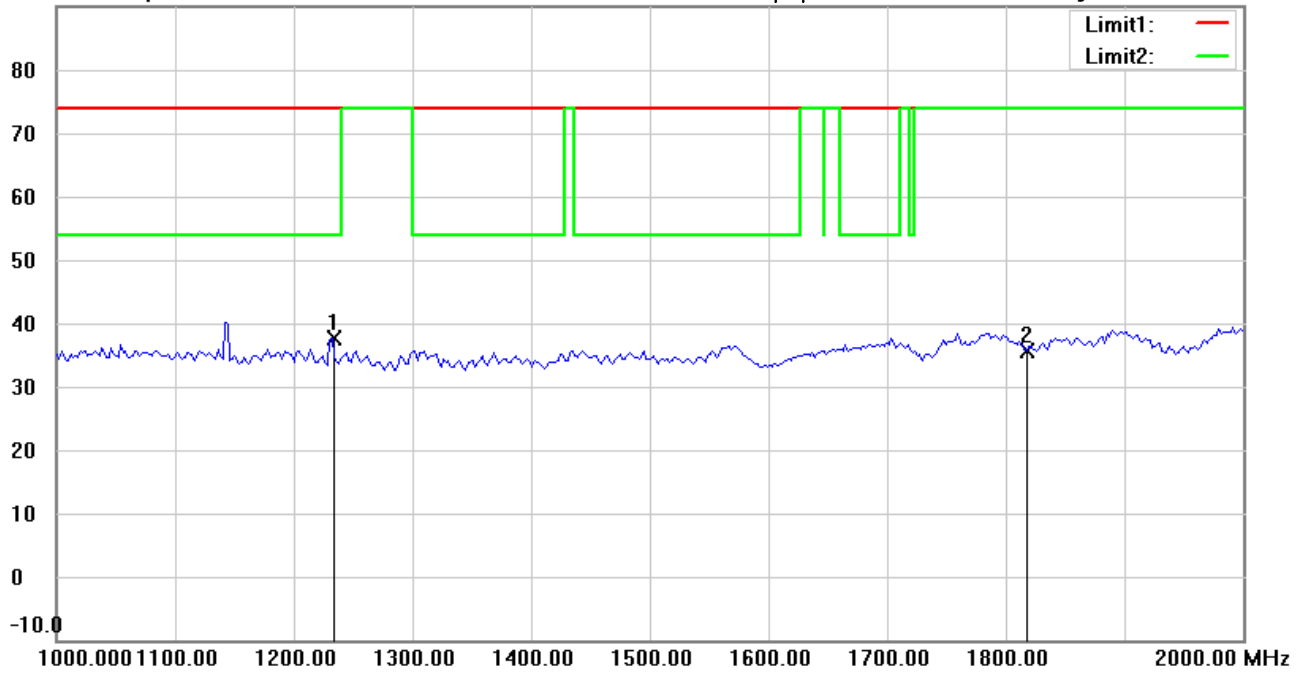
Date: 2022/9/8

Temperature:27.6 °C

90.0 dBuV/m

Time: 下午 11:32:57

Humidity:61 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: **Vertical**

EUT : W6M22207-21977

Power : 120 Va.c.

M/N:

Distance: 3m

Test Mode : TX 908.4MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1232.465	45.31	peak	-7.64	37.67	74.00	150	119	-36.33	
	1816.800	41.04	peak	-5.45	35.59	74.00	150	103	-38.41	

*:Maximum data x:Over limit !:over margin



Radiated Emission Measurement

Operator: Sky

File :3

Data :#2

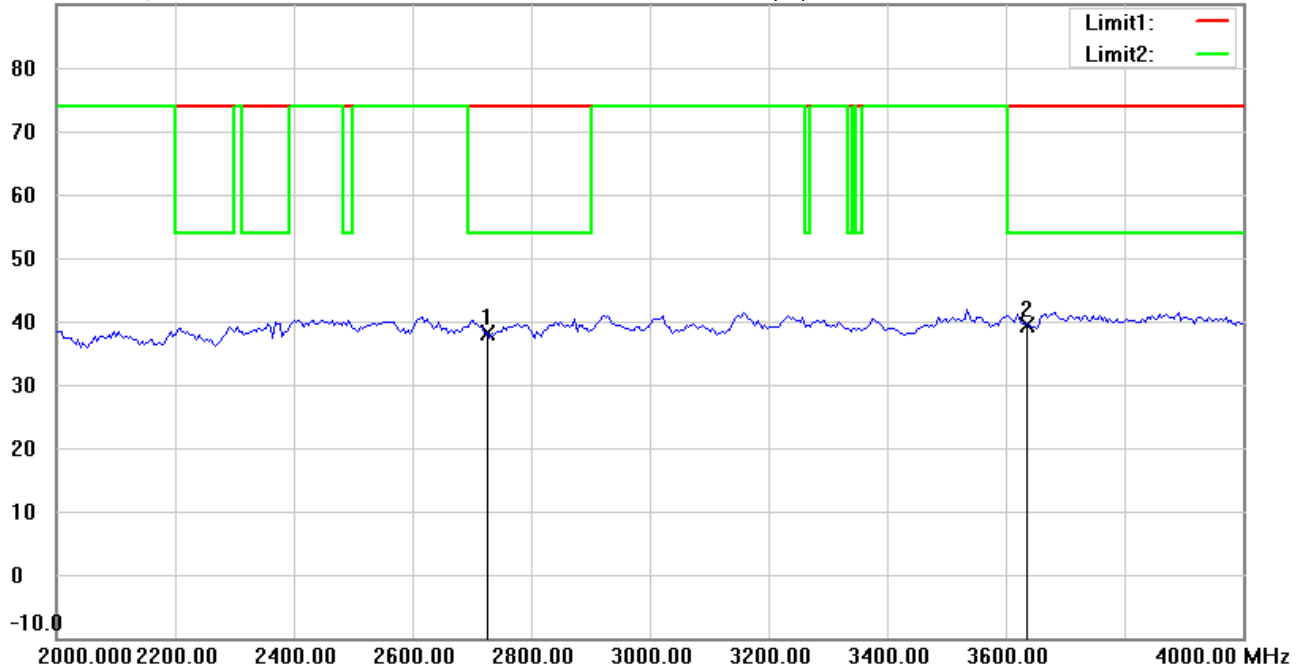
Date: 2022/9/8

Temperature:27.6 °C

90.0 dBuV/m

Time: 下午 11:35:14

Humidity:61 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M22207-21977

Power : 120 Va.c.

M/N:

Distance: 3m

Test Mode : TX 908.4MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2725.200	41.76	peak	-3.67	38.09	74.00	150	24	-35.91	
*	3633.600	40.84	peak	-1.39	39.45	74.00	150	180	-34.55	



Radiated Emission Measurement

Operator: Sky

File :3

Data :#6

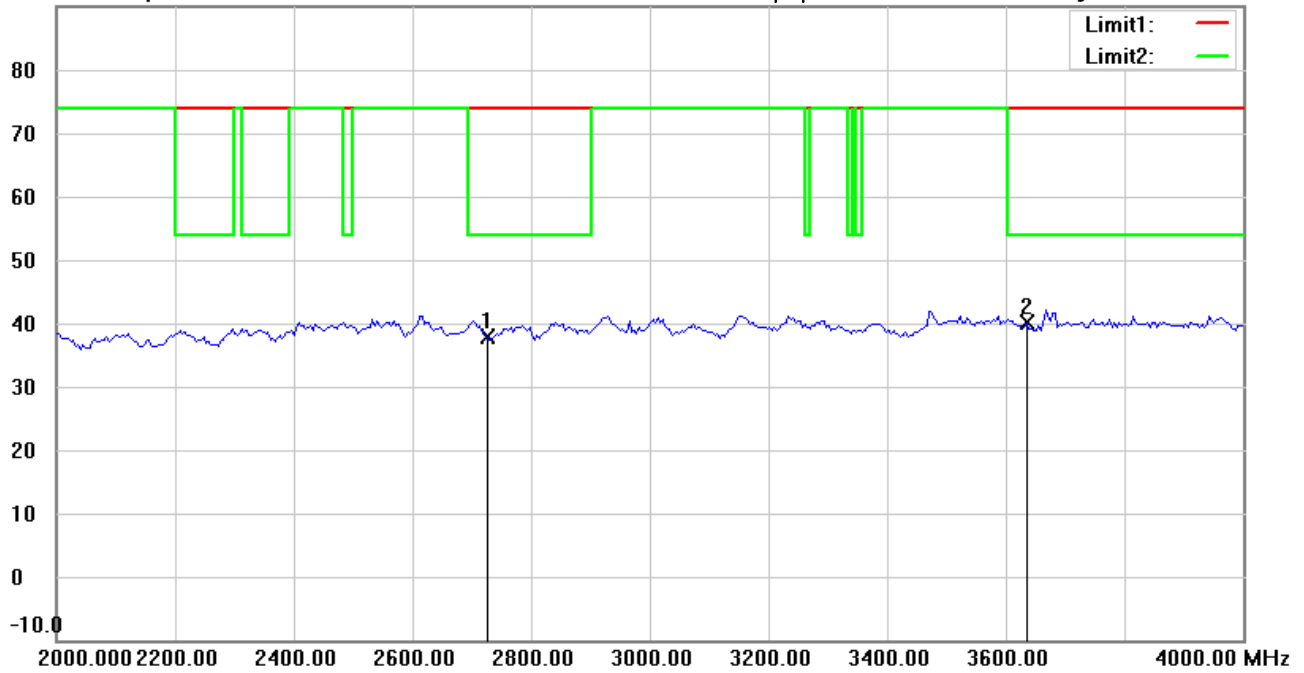
Date: 2022/9/8

Temperature:27.6 °C

90.0 dBuV/m

Time: 下午 11:37:27

Humidity:61 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M22207-21977

Power : 120 Va.c.

M/N:

Distance: 3m

Test Mode : TX 908.4MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2725.200	41.48	peak	-3.67	37.81	74.00	150	221	-36.19	
*	3633.600	41.47	peak	-1.39	40.08	74.00	150	40	-33.92	



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Radiated Emission Measurement

Operator: Sky

File :3

Data :#3

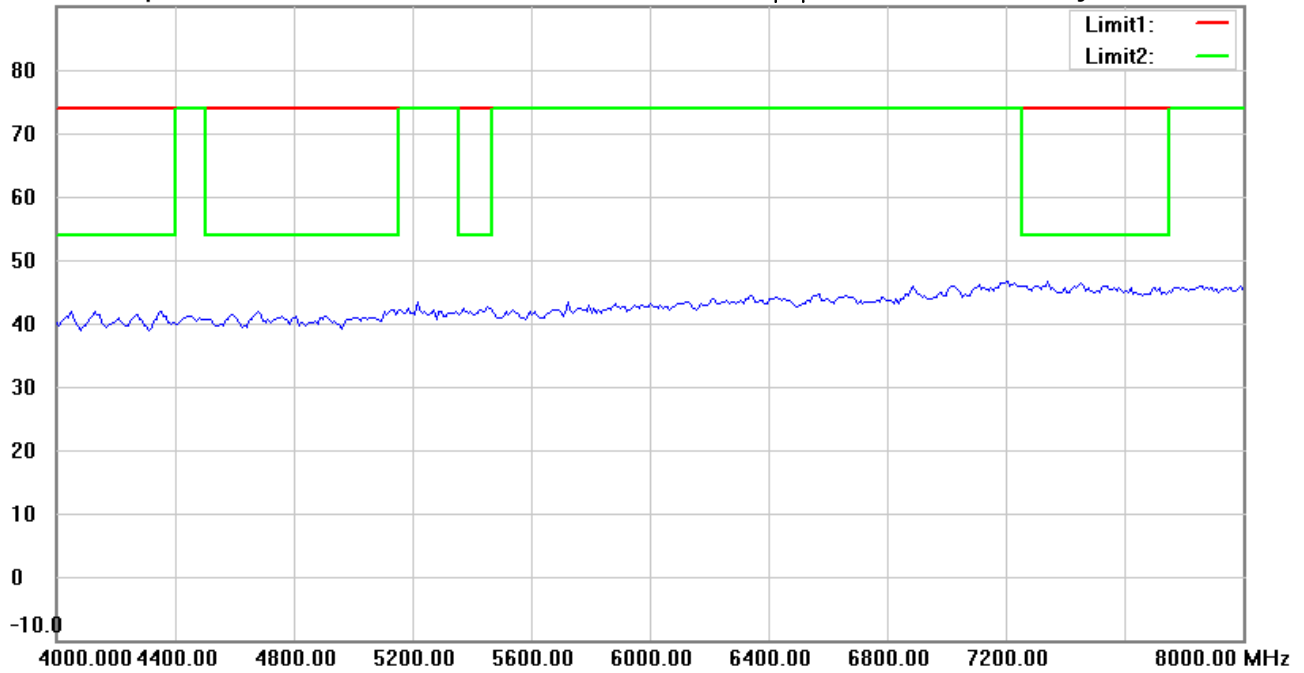
Date: 2022/9/8

Temperature:27.6 °C

90.0 dBuV/m

Time: 下午 11:39:58

Humidity:61 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M22207-21977

M/N:

Test Mode : TX 908.4MHz

Note :

Polarization: *Horizontal*

Power : 120 Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Sky

File :3

Data :#7

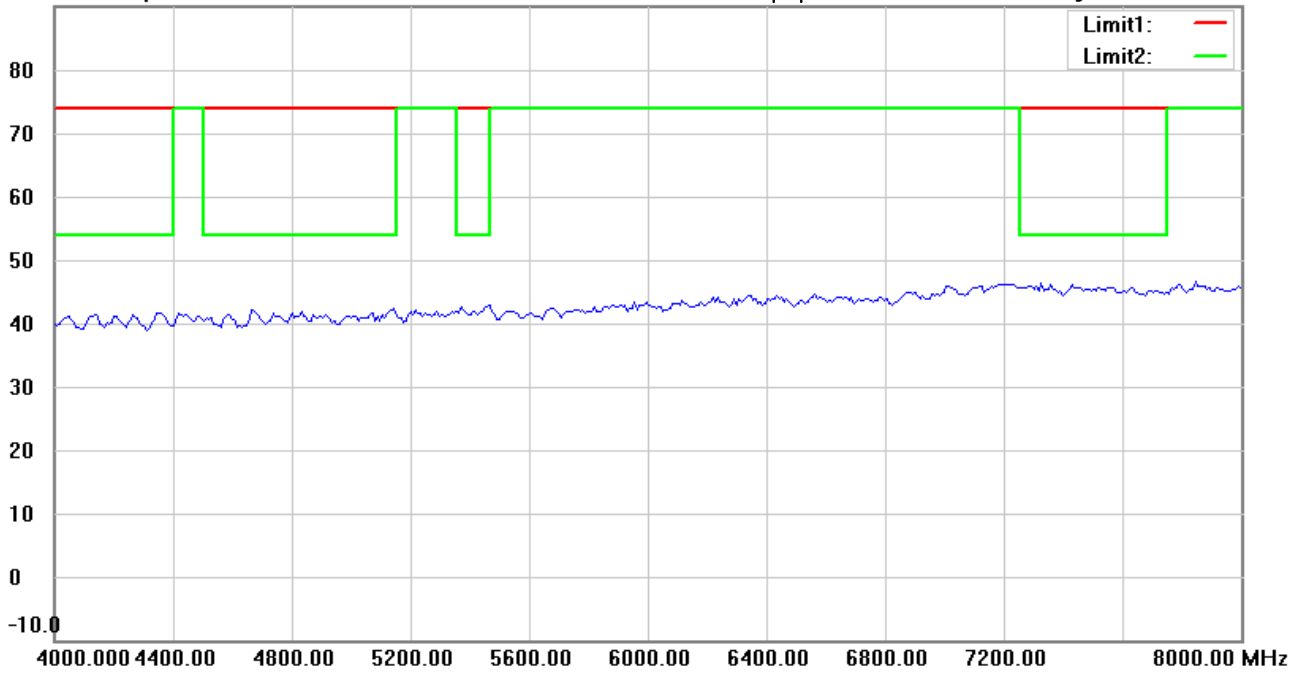
Date: 2022/9/8

Temperature:27.6 °C

90.0 dBuV/m

Time: 下午 11:41:16

Humidity:61 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: **Vertical**

EUT : W6M22207-21977

Power : 120 Va.c.

M/N:

Distance: 3m

Test Mode : TX 908.4MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Sky

File :3

Data :#4

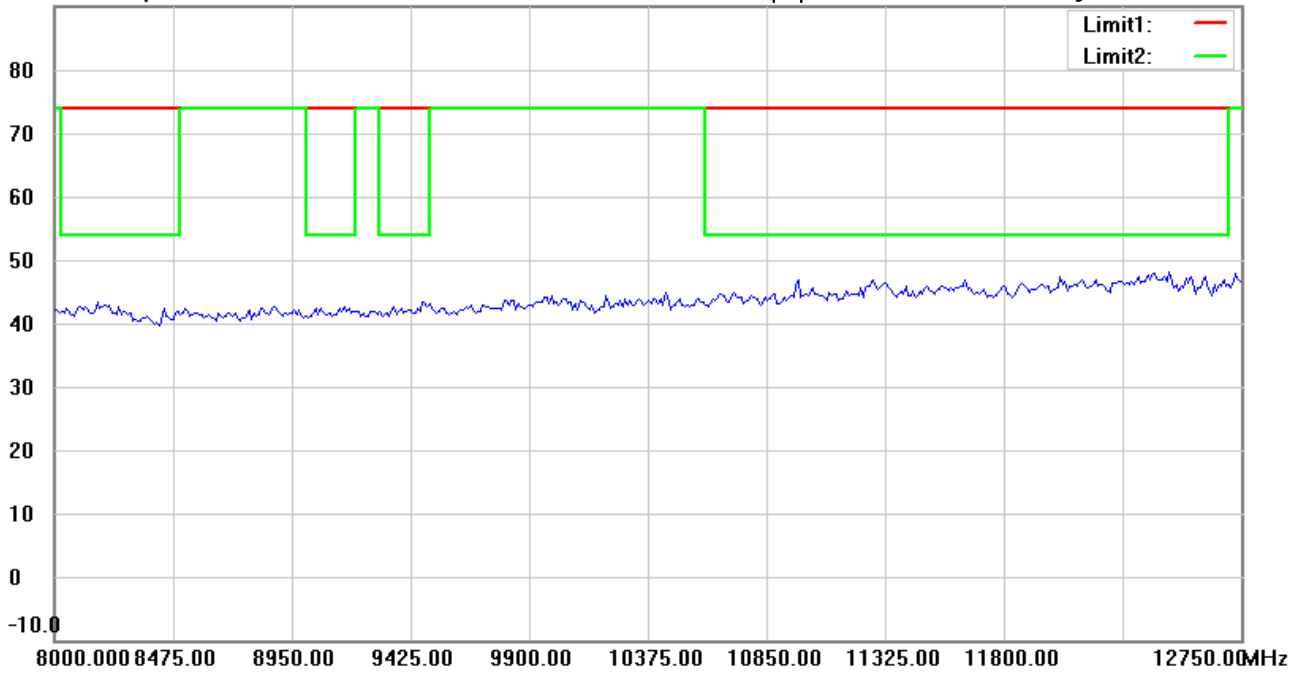
Date: 2022/9/8

Temperature:27.6 °C

90.0 dBuV/m

Time: 下午 11:42:50

Humidity:61 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M22207-21977

Power : 120 Va.c.

M/N:

Distance: 3m

Test Mode : TX 908.4MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Sky

File :3

Data :#8

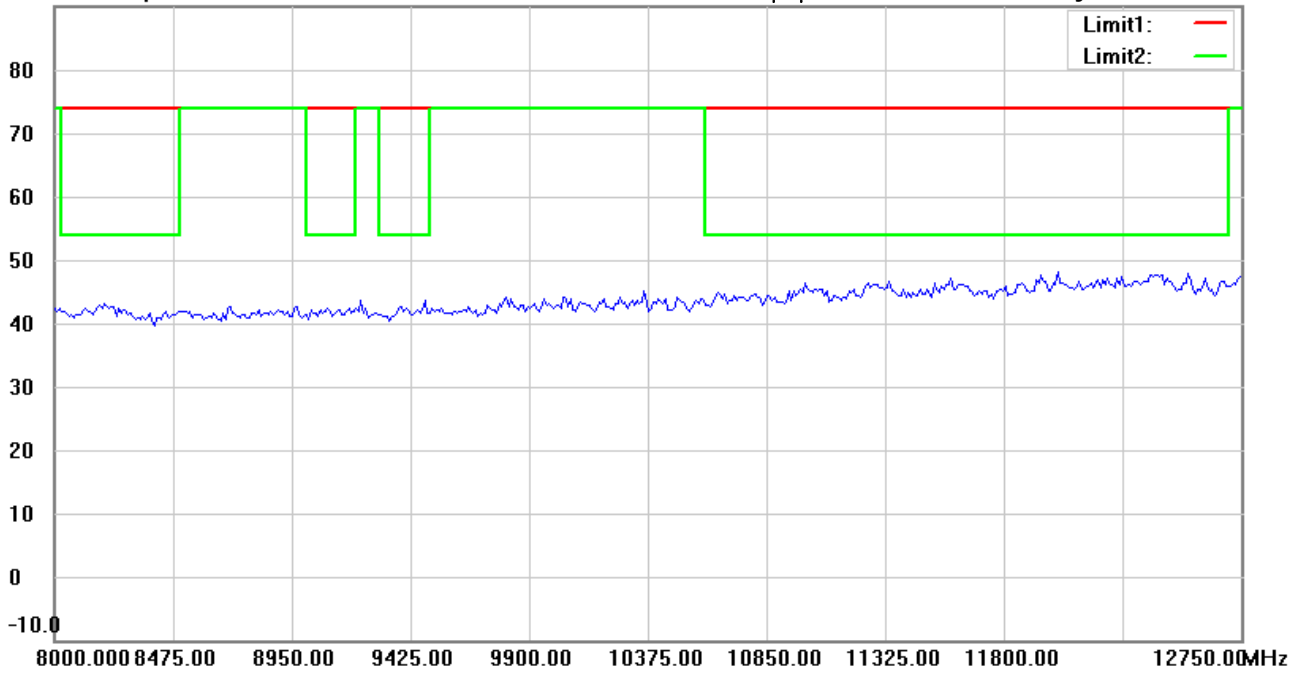
Date: 2022/9/8

Temperature:27.6 °C

90.0 dBuV/m

Time: 下午 11:43:56

Humidity:61 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: **Vertical**

EUT : W6M22207-21977

Power : 120 Va.c.

M/N:

Distance: 3m

Test Mode : TX 908.4MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



Radiated Emission Measurement

Operator: Sky

File :1

Data :#1

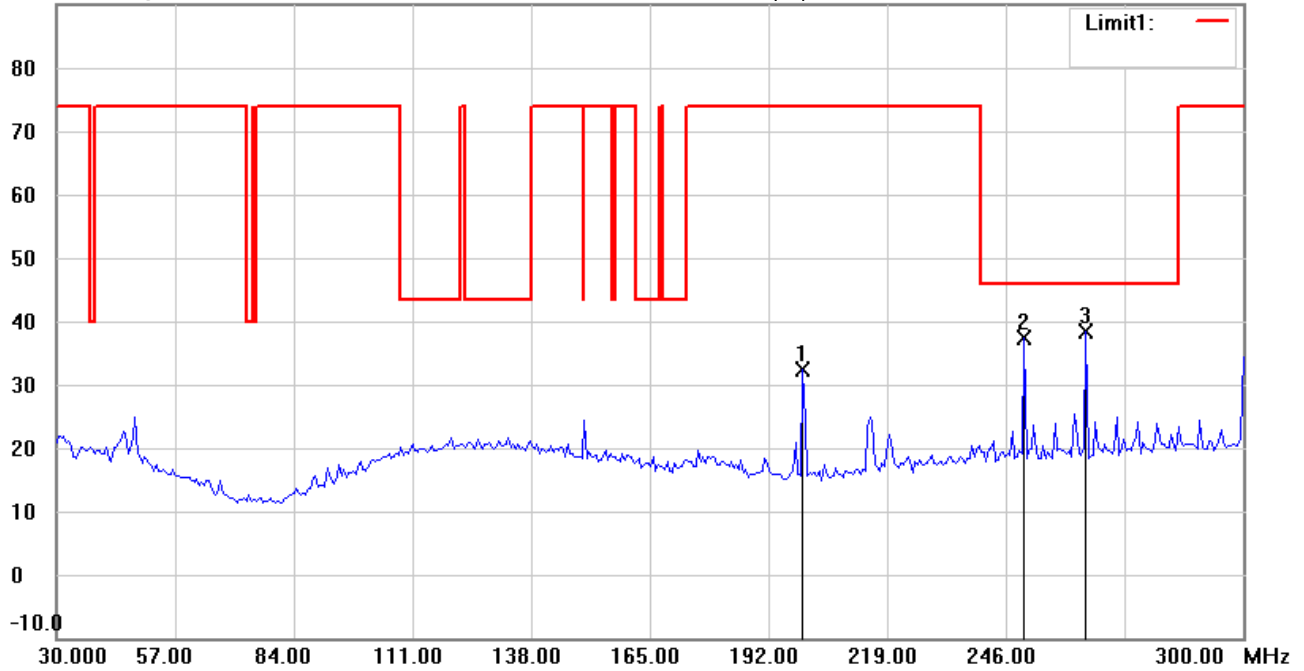
Date: 2022/9/8

Temperature:27.6 °C

90.0 dBuV/m

Time: 下午 09:39:07

Humidity:61 %



Site : Chamber

Condition : FCC Restriction Band 30-300

Polarization: *Horizontal*

EUT : W6M22207-21977

Power : 120 Va.c.

M/N:

Distance: 3m

Test Mode : TX 916MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	199.8998	43.19	peak	-10.74	32.45	74.00	100	110	-41.55	
	250.2204	44.89	peak	-7.55	37.34	46.00	100	150	-8.66	
*	264.2886	45.14	peak	-6.82	38.32	46.00	100	42	-7.68	



Radiated Emission Measurement

Operator: Sky

File :1

Data :#2

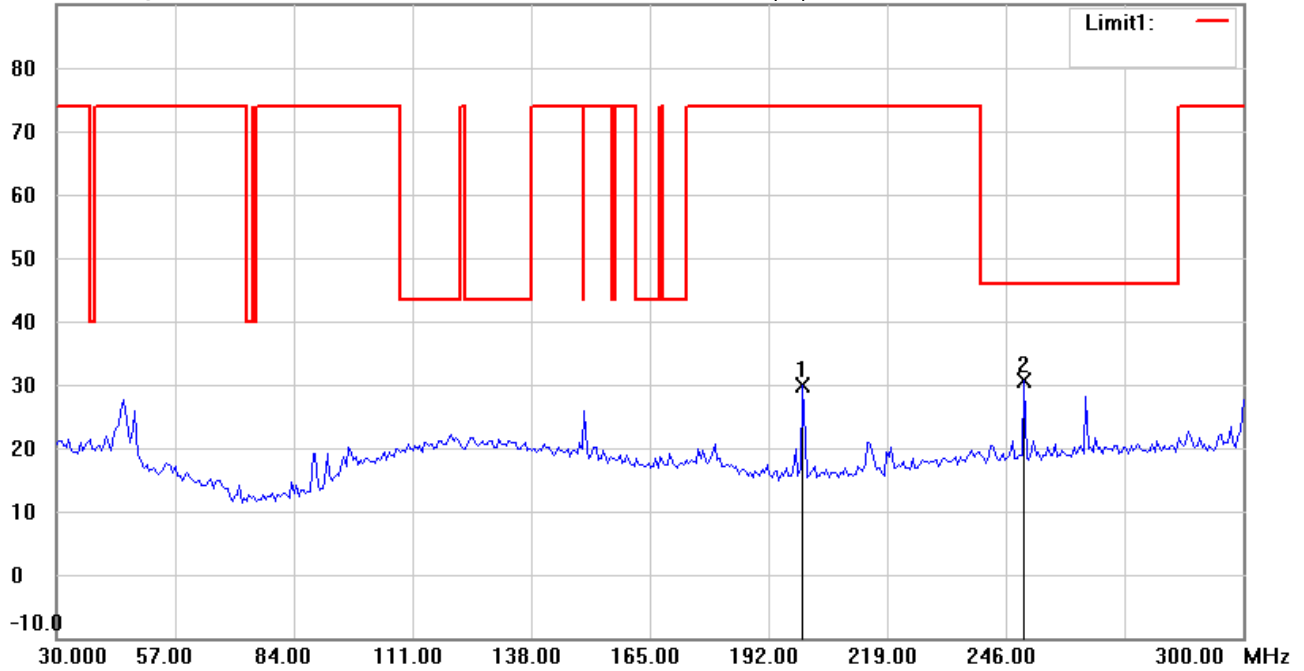
Date: 2022/9/8

Temperature:27.6 °C

90.0 dBuV/m

Time: 下午 09:40:32

Humidity:61 %



Site : Chamber

Condition : FCC Restriction Band 30-300

EUT : W6M22207-21977

M/N:

Test Mode : TX 916MHz

Note :

Polarization: **Vertical**

Power : 120 Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	199.8998	40.67	peak	-10.74	29.93	74.00	100	107	-44.07	
*	250.2204	38.10	peak	-7.55	30.55	46.00	100	241	-15.45	



Radiated Emission Measurement

Operator: Sky

File :2

Data :#1

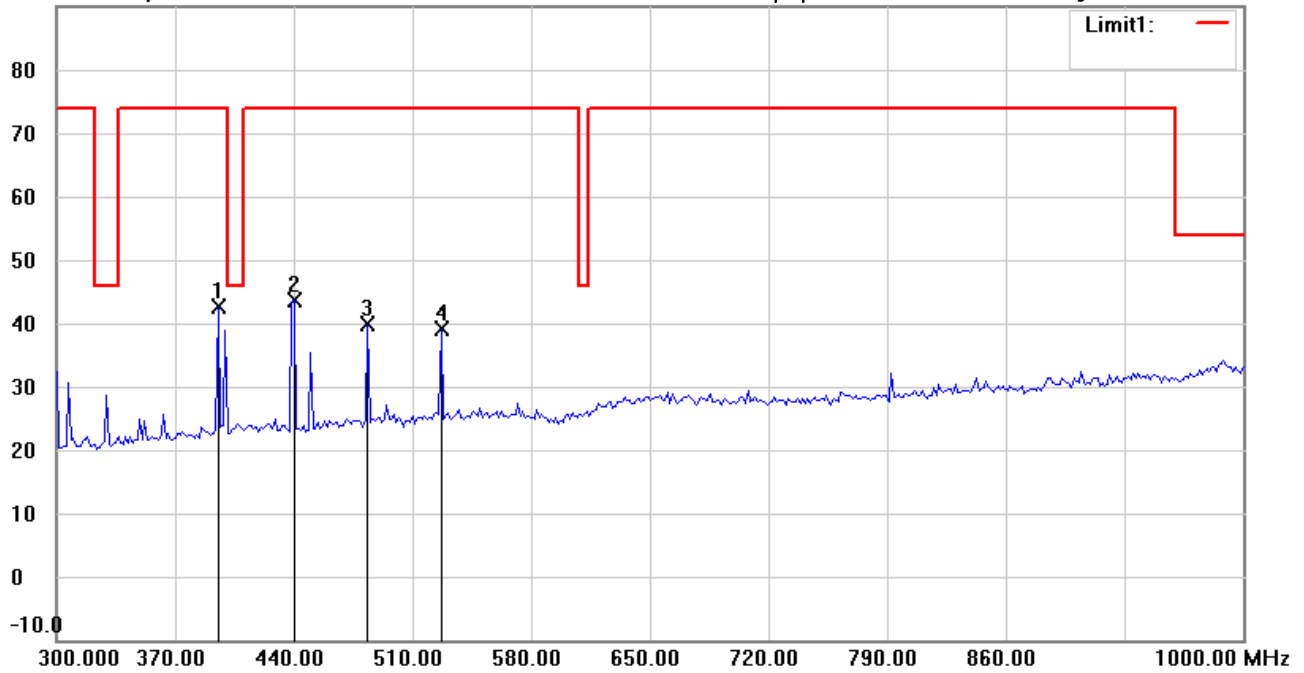
Date: 2022/9/8

Temperature:27.6 °C

90.0 dBuV/m

Time: 下午 10:07:32

Humidity:61 %



Site : Chamber

Condition : FCC Restriction Band 300-1000

Polarization: *Horizontal*

EUT : W6M22207-21977

Power : 120 Va.c.

M/N:

Distance: 3m

Test Mode : TX 916MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	395.3908	46.59	peak	-3.89	42.70	74.00	100	210	-31.30	
*	440.2806	47.13	peak	-3.43	43.70	74.00	100	166	-30.30	
	483.7675	43.09	peak	-3.11	39.98	74.00	100	82	-34.02	
	527.2545	41.36	peak	-2.25	39.11	74.00	100	104	-34.89	



Radiated Emission Measurement

Operator: Sky

File :2

Data :#2

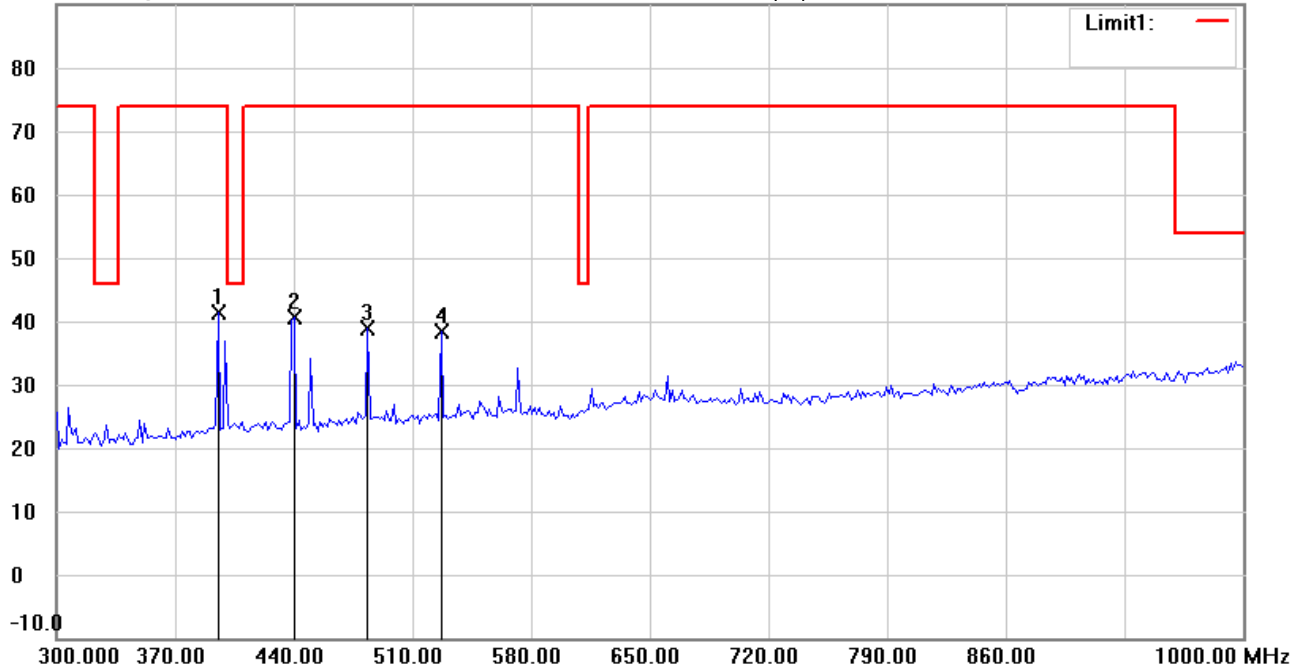
Date: 2022/9/8

Temperature:27.6 °C

90.0 dBuV/m

Time: 下午 10:09:08

Humidity:61 %



Site : Chamber

Condition : FCC Restriction Band 300-1000

Polarization: **Vertical**

EUT : W6M22207-21977

Power : 120 Va.c.

M/N:

Distance: 3m

Test Mode : TX 916MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	395.3908	45.18	peak	-3.89	41.29	74.00	100	248	-32.71	
	440.2806	44.06	peak	-3.43	40.63	74.00	100	90	-33.37	
	483.7675	41.97	peak	-3.11	38.86	74.00	100	122	-35.14	
	527.2545	40.53	peak	-2.25	38.28	74.00	100	103	-35.72	



Radiated Emission Measurement

Operator: Sky

File :3

Data :#1

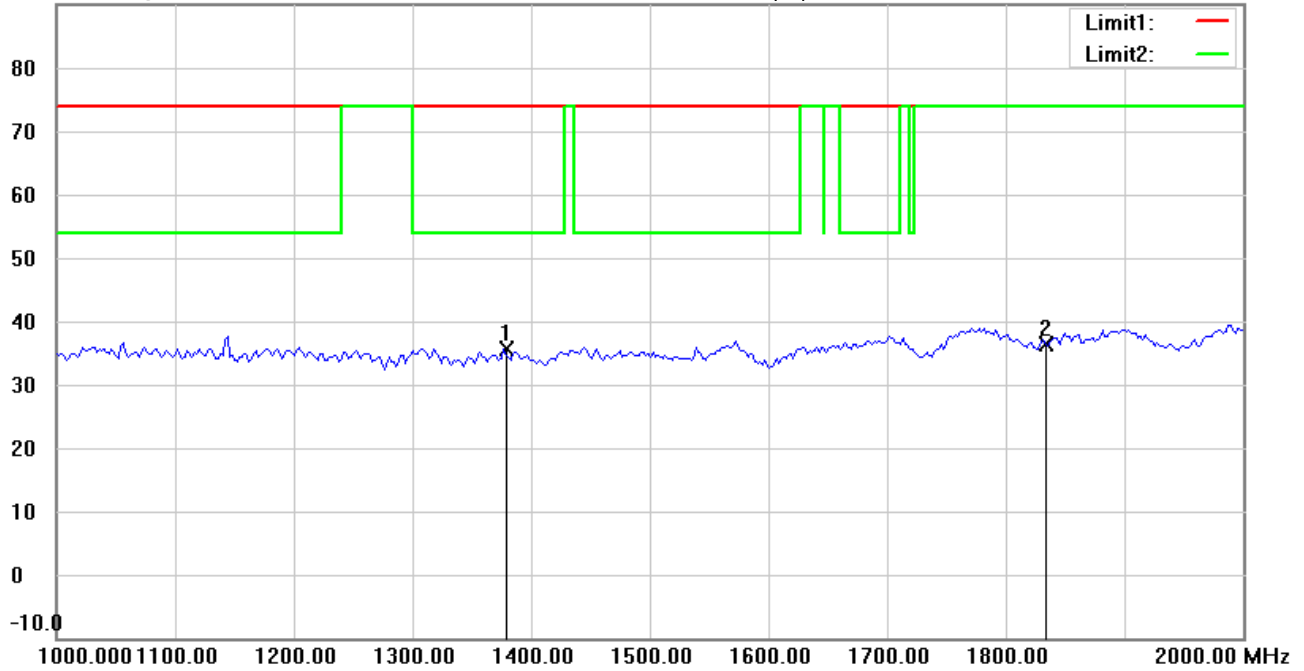
Date: 2022/9/8

Temperature:27.6 °C

90.0 dBuV/m

Time: 下午 10:27:19

Humidity:61 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M22207-21977

Power : 120 Va.c.

M/N:

Distance: 3m

Test Mode : TX 916MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	1376.754	43.63	peak	-7.97	35.66	74.00	150	131	-38.34	
*	1832.000	41.92	peak	-5.47	36.45	74.00	150	21	-37.55	



Radiated Emission Measurement

Operator: Sky

File :3

Data :#5

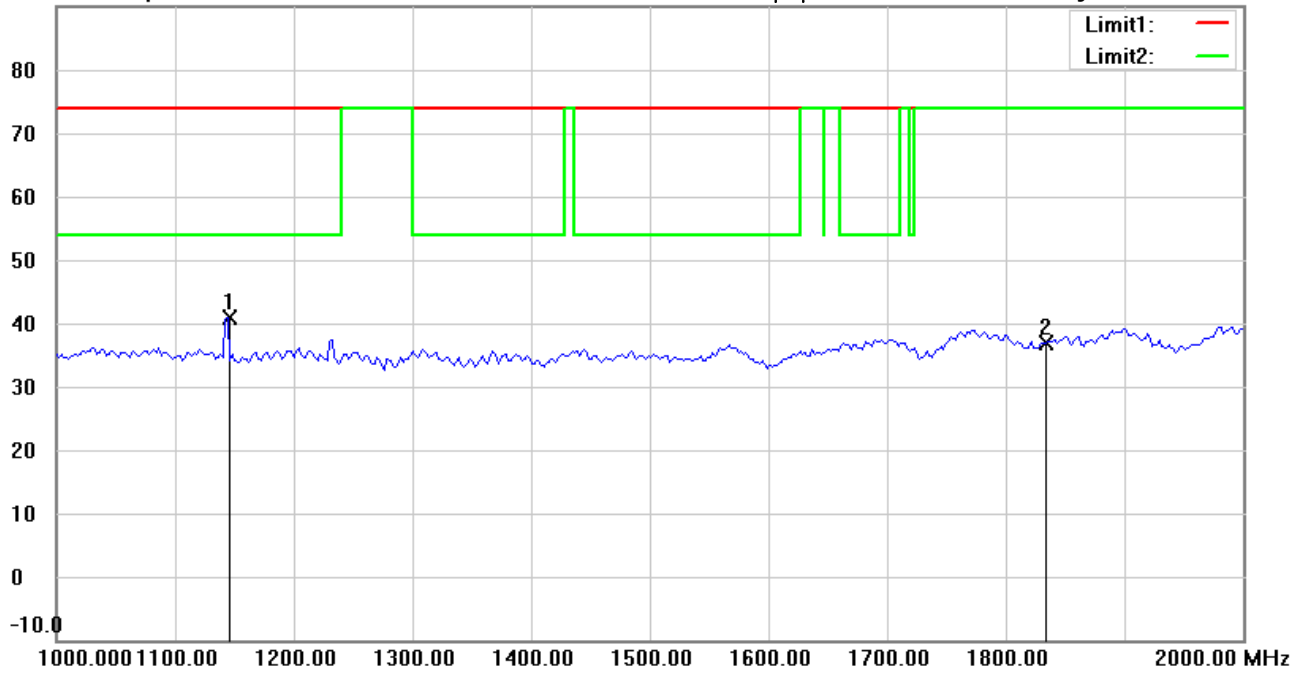
Date: 2022/9/8

Temperature:27.6 °C

90.0 dBuV/m

Time: 下午 10:29:45

Humidity:61 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: **Vertical**

EUT : W6M22207-21977

Power : 120 Va.c.

M/N:

Distance: 3m

Test Mode : TX 916MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1144.289	48.19	peak	-7.41	40.78	74.00	150	110	-33.22	
	1832.000	42.36	peak	-5.47	36.89	74.00	150	104	-37.11	



Radiated Emission Measurement

Operator: Sky

File :3

Data :#2

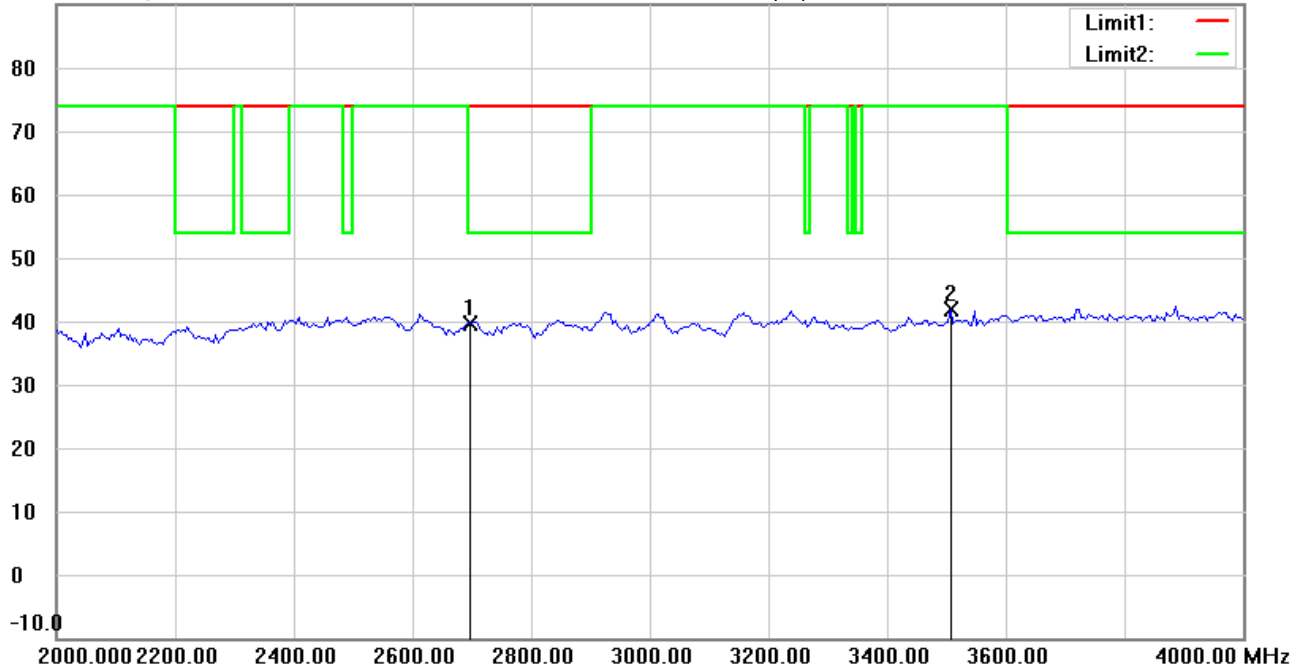
Date: 2022/9/8

Temperature:27.6 °C

90.0 dBuV/m

Time: 下午 10:32:32

Humidity:61 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M22207-21977

Power : 120 Va.c.

M/N:

Distance: 3m

Test Mode : TX 916MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2693.387	43.37	peak	-3.66	39.71	74.00	150	159	-34.29	
*	3507.014	44.18	peak	-2.27	41.91	74.00	150	228	-32.09	



Radiated Emission Measurement

Operator: Sky

File :3

Data :#6

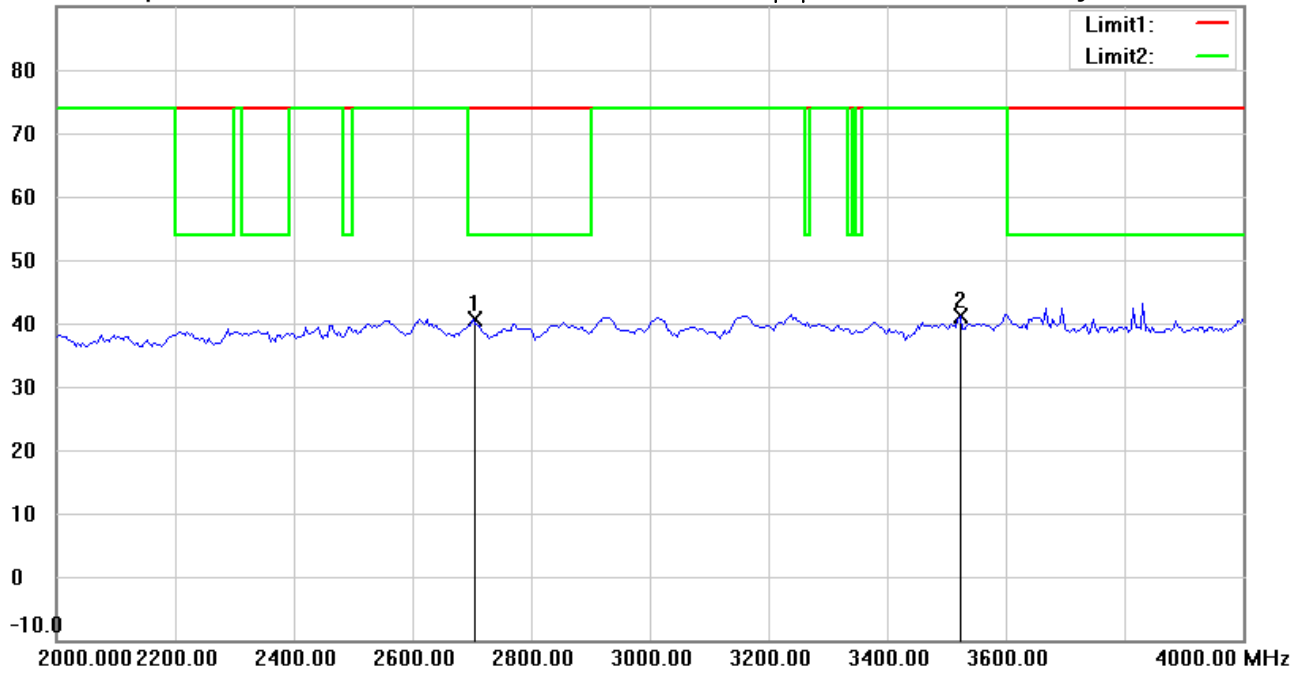
Date: 2022/9/8

Temperature:27.6 °C

90.0 dBuV/m

Time: 下午 11:18:55

Humidity:61 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: **Vertical**

EUT : W6M22207-21977

Power : 120 Va.c.

M/N:

Distance: 3m

Test Mode : TX 916MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2701.403	44.36	peak	-3.72	40.64	74.00	150	180	-33.36	
*	3523.046	43.16	peak	-2.12	41.04	74.00	150	211	-32.96	



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Radiated Emission Measurement

Operator: Sky

File :3

Data :#3

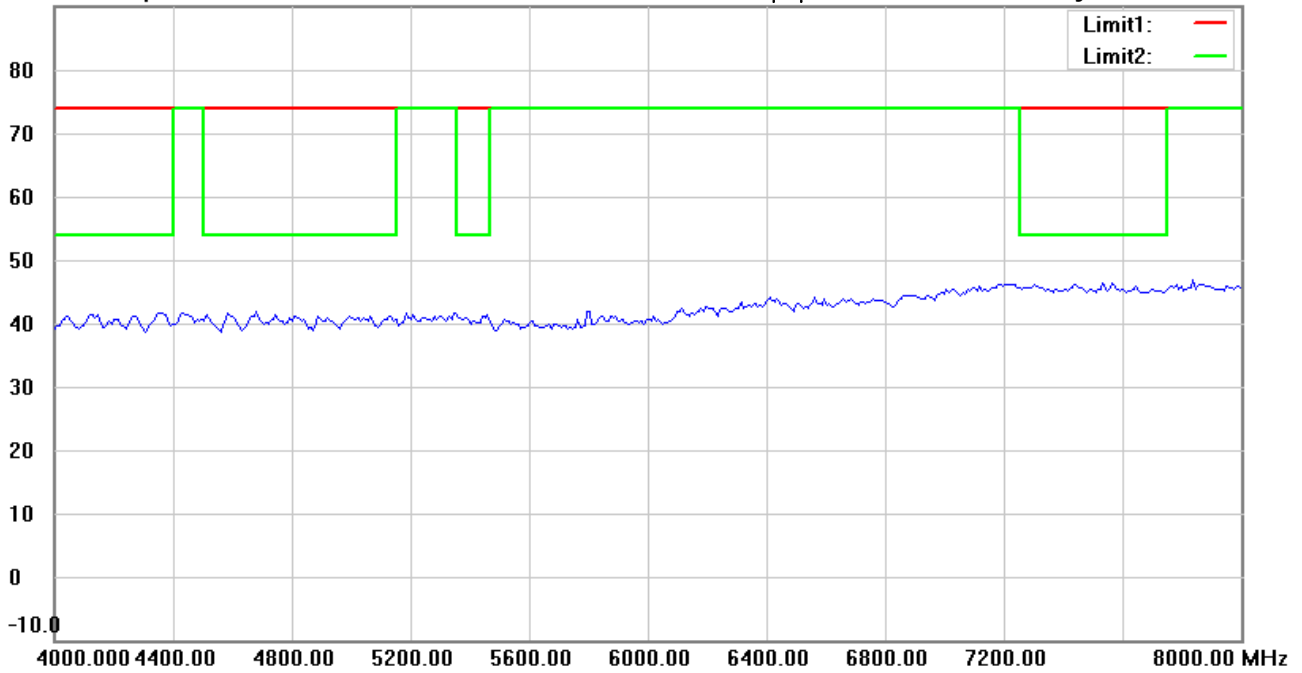
Date: 2022/9/8

Temperature:27.6 °C

90.0 dBuV/m

Time: 下午 11:21:47

Humidity:61 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M22207-21977

M/N:

Test Mode : TX 916MHz

Note :

Polarization: *Horizontal*

Power : 120 Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Sky

File :3

Data :#7

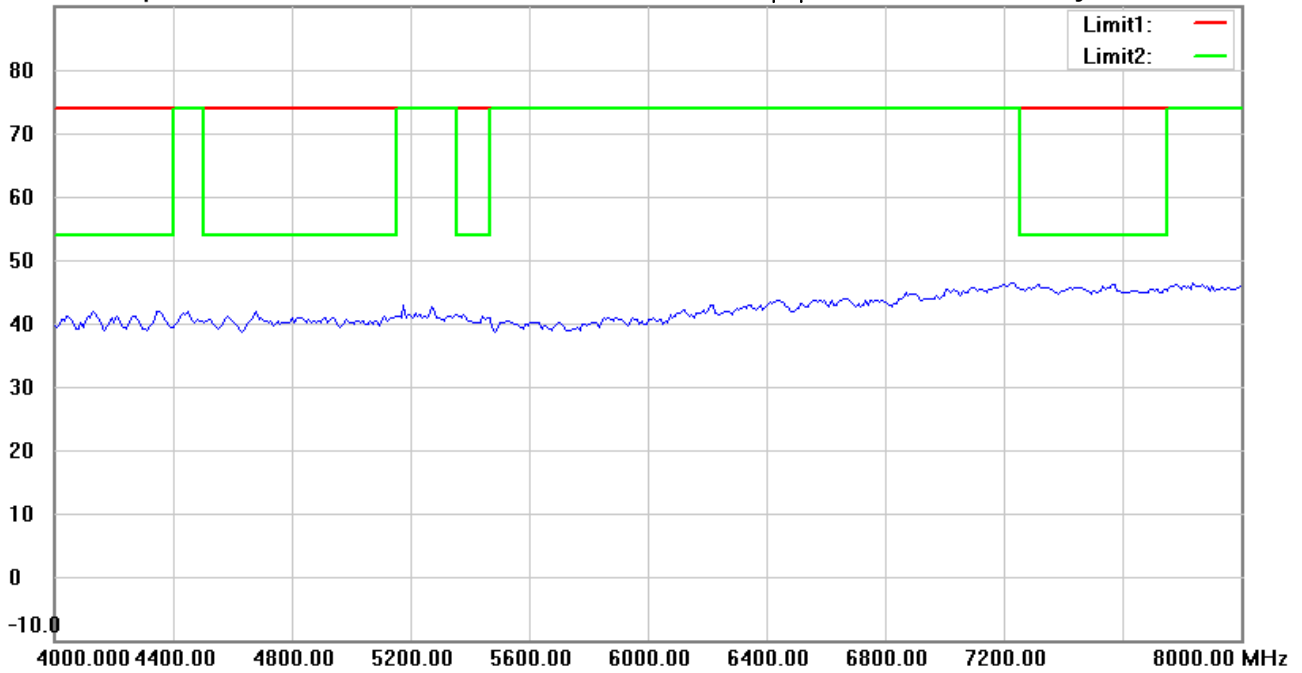
Date: 2022/9/8

Temperature:27.6 °C

90.0 dBuV/m

Time: 下午 11:23:10

Humidity:61 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M22207-21977

M/N:

Test Mode : TX 916MHz

Note :

Polarization: *Vertical*

Power : 120 Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Sky

File :3

Data :#4

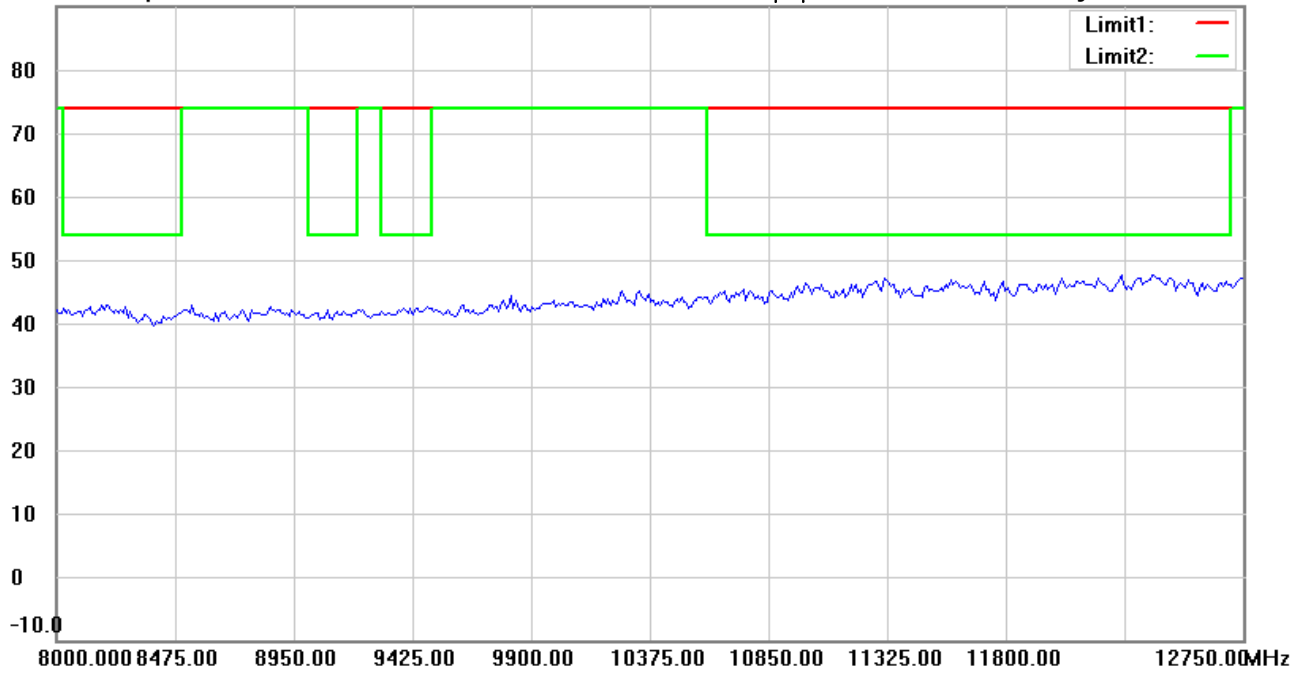
Date: 2022/9/8

Temperature:27.6 °C

90.0 dBuV/m

Time: 下午 11:25:21

Humidity:61 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M22207-21977

Power : 120 Va.c.

M/N:

Distance: 3m

Test Mode : TX 916MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Sky

File :3

Data :#8

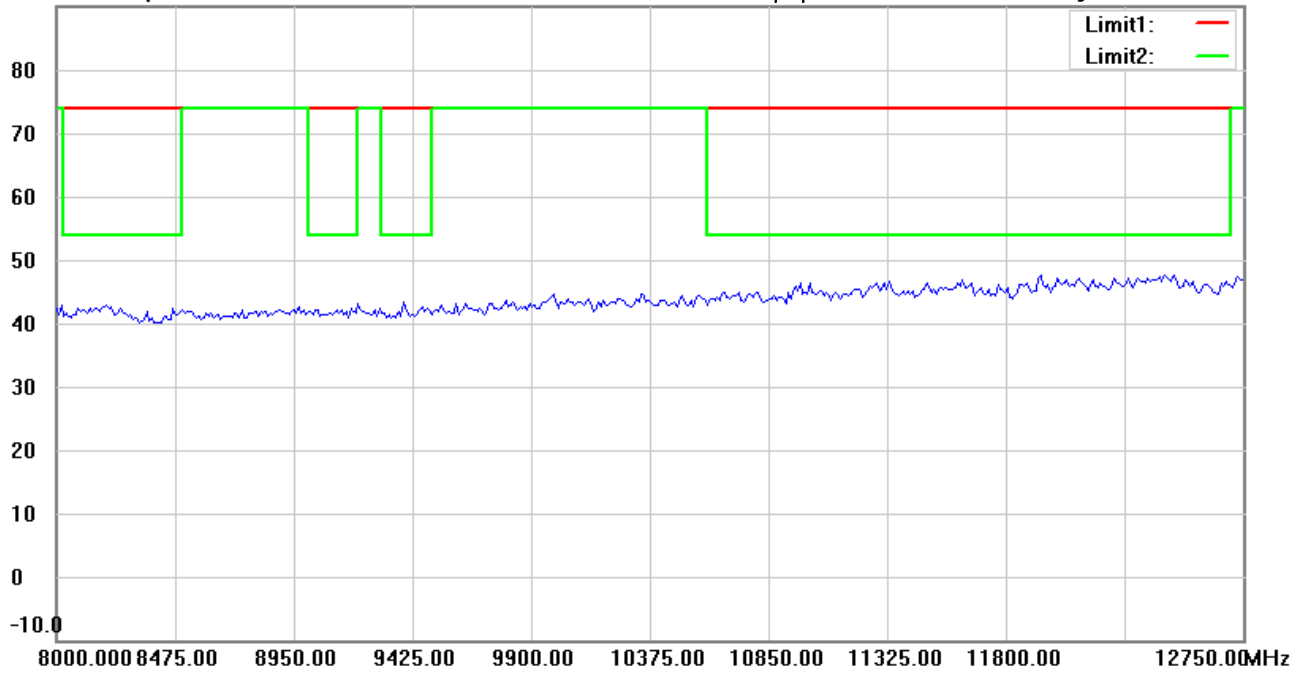
Date: 2022/9/8

Temperature:27.6 °C

90.0 dBuV/m

Time: 下午 11:26:26

Humidity:61 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: **Vertical**

EUT : W6M22207-21977

Power : 120 Va.c.

M/N:

Distance: 3m

Test Mode : TX 916MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
-----	-----------------	----------------	----------	---------------------	-----------------	----------------	--------------	----------------	-------------	---------

*:Maximum data x:Over limit !:over margin



Radiated Emission Measurement

Operator: Sky

File :1

Data :#1

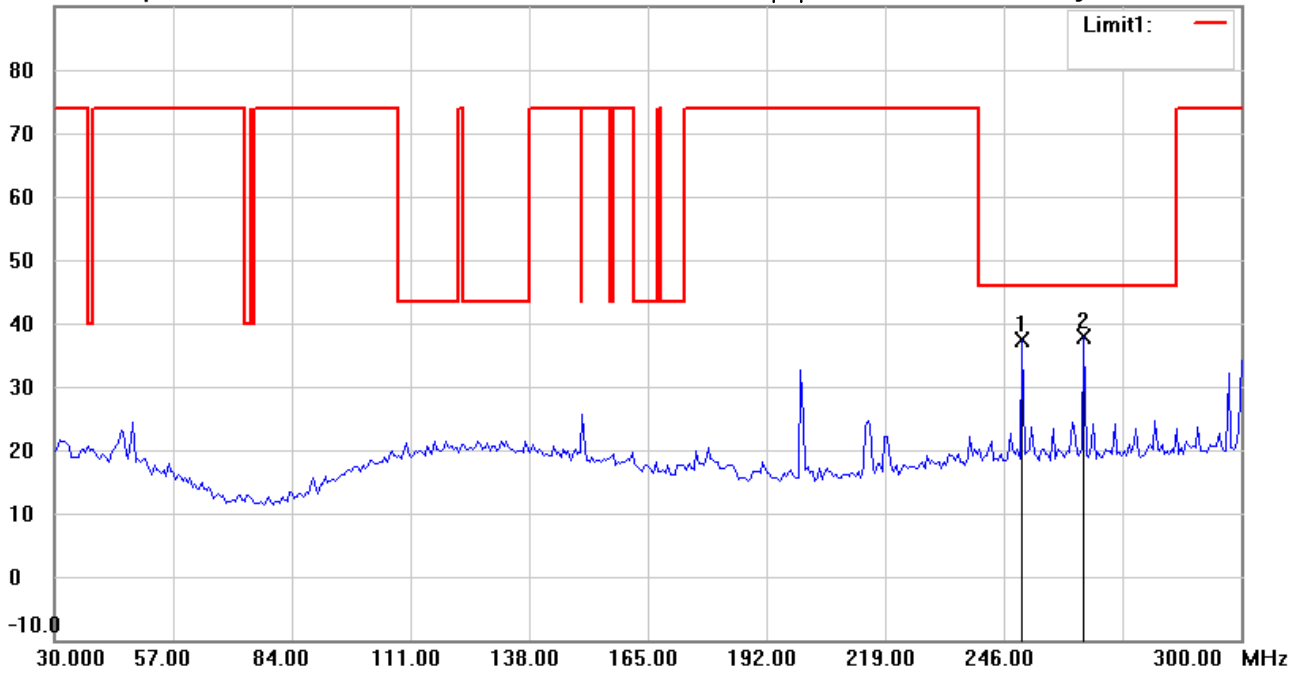
Date: 2022/9/8

Temperature:27.6 °C

90.0 dBuV/m

Time: 下午 09:42:12

Humidity:61 %



Site : Chamber

Condition : FCC Restriction Band 30-300

Polarization: **Horizontal**

EUT : W6M22207-21977

Power : 120 Va.c.

M/N:

Distance: 3m

Test Mode : TX 921.4MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	250.2204	44.98	peak	-7.55	37.43	46.00	103	106	-8.57	
*	264.2886	44.75	peak	-6.82	37.93	46.00	100	244	-8.07	



Radiated Emission Measurement

Operator: Sky

File :1

Data :#2

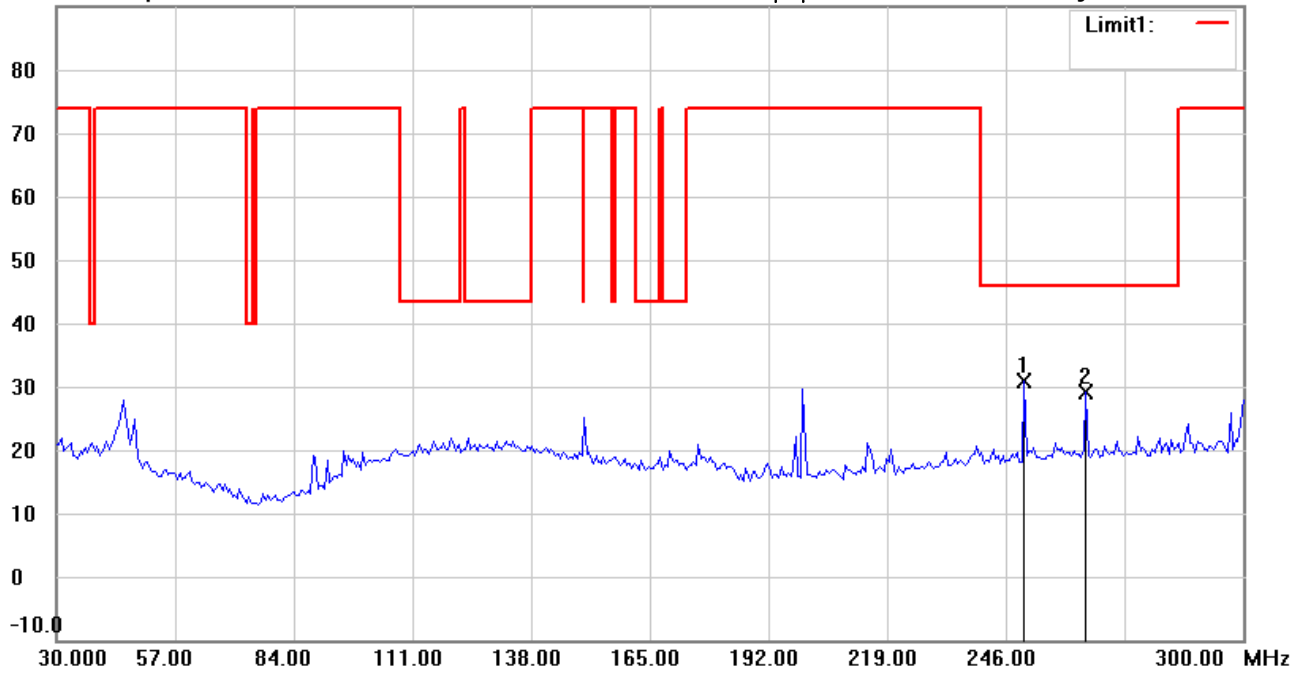
Date: 2022/9/8

Temperature:27.6 °C

90.0 dBuV/m

Time: 下午 09:43:44

Humidity:61 %



Site : Chamber

Condition : FCC Restriction Band 30-300

EUT : W6M22207-21977

M/N:

Test Mode : TX 921.4MHz

Note :

Polarization: *Vertical*

Power : 120 Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	250.2204	38.39	peak	-7.55	30.84	46.00	150	311	-15.16	
	264.2886	35.84	peak	-6.82	29.02	46.00	150	20	-16.98	



Radiated Emission Measurement

Operator: Sky

File :2

Data :#1

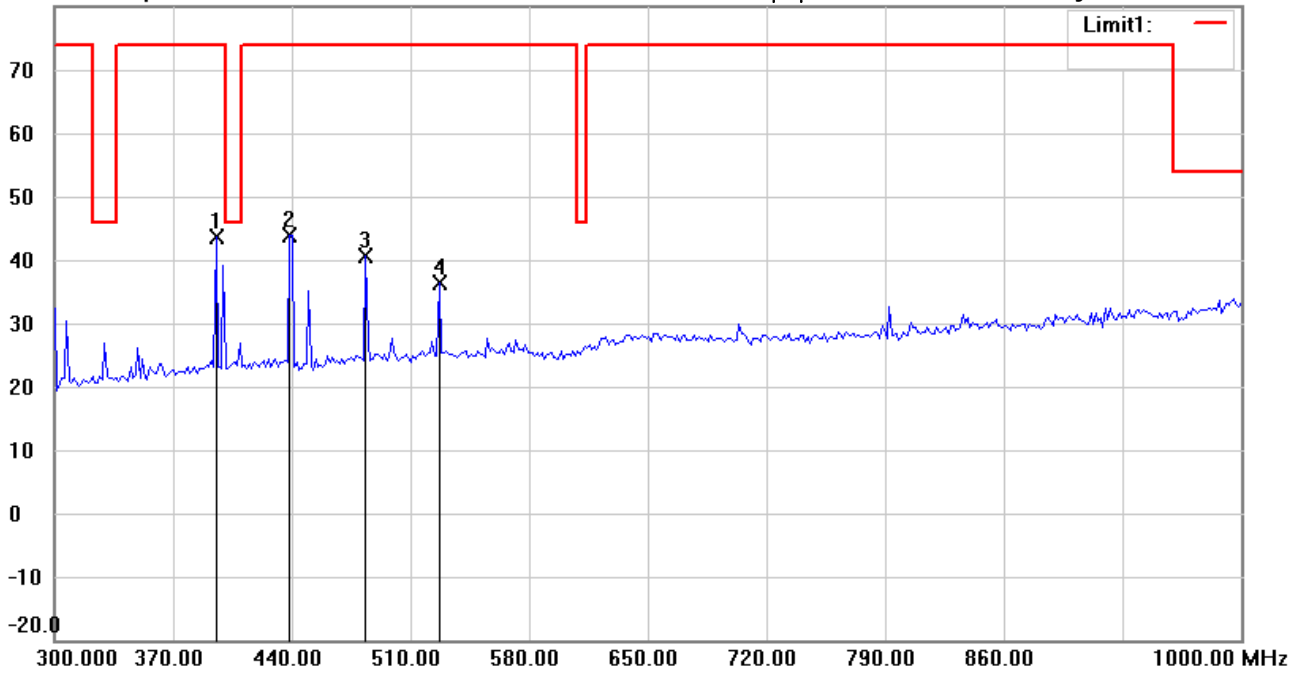
Date: 2022/9/8

Temperature:27.6 °C

80.0 dBuV/m

Time: 下午 10:11:27

Humidity:61 %



Site : Chamber

Condition : FCC Restriction Band 300-1000

Polarization: *Horizontal*

EUT : W6M22207-21977

Power : 120 Va.c.

M/N:

Distance: 3m

Test Mode : TX 921.4MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	395.3908	47.56	peak	-3.89	43.67	74.00	100	321	-30.33	
*	438.8778	47.34	peak	-3.44	43.90	74.00	100	40	-30.10	
	483.7675	43.72	peak	-3.11	40.61	74.00	100	218	-33.39	
	527.2545	38.52	peak	-2.25	36.27	74.00	100	50	-37.73	



Radiated Emission Measurement

Operator: Sky

File :2

Data :#2

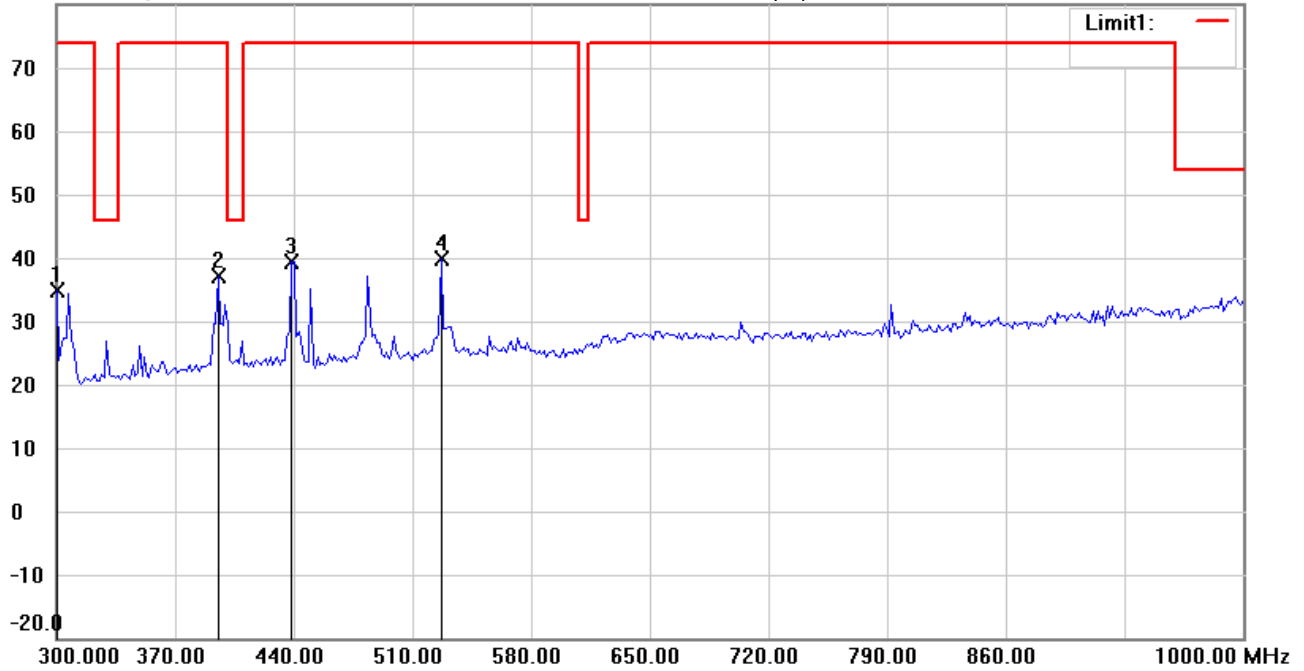
Date: 2022/9/8

Temperature:26.3 °C

80.0 dBuV/m

Time: 下午 10:11:27

Humidity:49.8 %



Site : Chamber

Condition : FCC Restriction Band 300-1000

Polarization: **Vertical**

EUT : W6M22207-21977

Power : 120 Va.c.

M/N:

Distance: 3m

Test Mode : TX 921.4MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	300.0000	40.73	peak	-5.90	34.83	74.00	109	116	-39.17	
	395.3908	41.06	peak	-3.89	37.17	74.00	106	75	-36.83	
	438.8777	42.84	peak	-3.44	39.40	74.00	102	5	-34.60	
*	527.2545	42.02	peak	-2.25	39.77	74.00	113	248	-34.23	



Radiated Emission Measurement

Operator: Sky

File :3

Data :#1

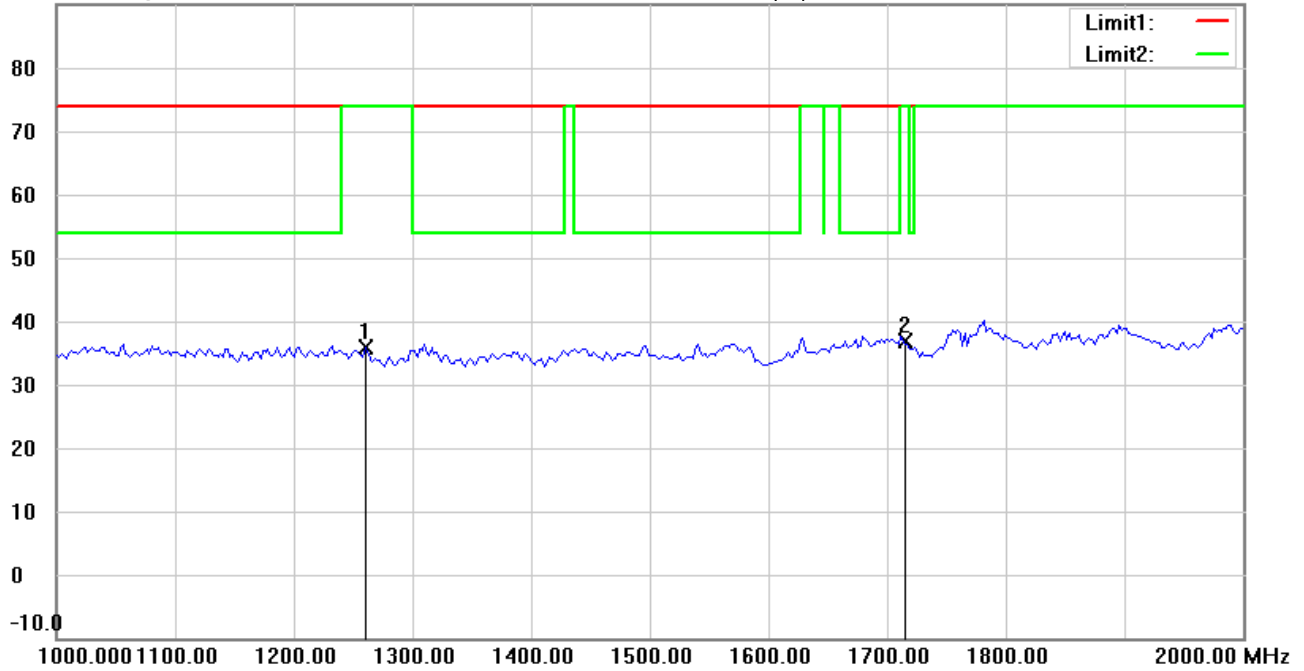
Date: 2022/9/8

Temperature:27.6 °C

90.0 dBuV/m

Time: 下午 11:49:46

Humidity:61 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M22207-21977

Power : 120 Va.c.

M/N:

Distance: 3m

Test Mode : TX 921.4MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	1260.521	43.72	peak	-7.77	35.95	74.00	150	271	-38.05	
*	1713.427	43.12	peak	-6.32	36.80	74.00	150	103	-37.20	



Radiated Emission Measurement

Operator: Sky

File :3

Data :#2

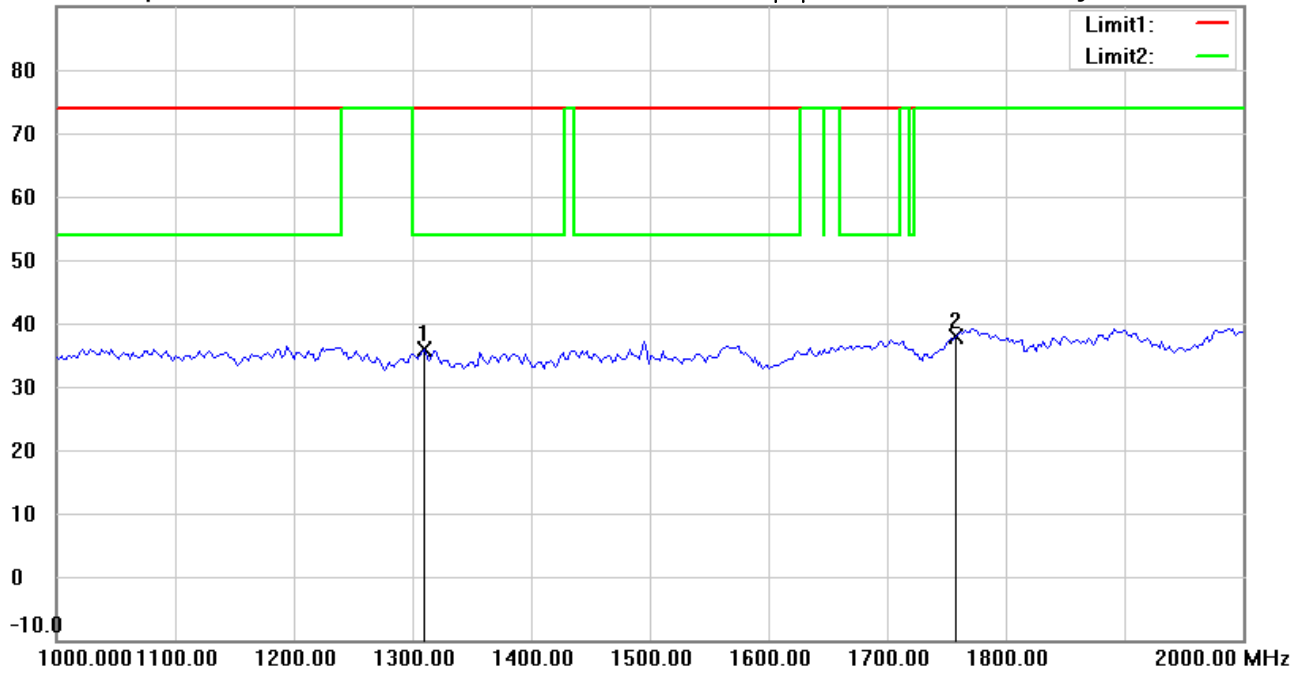
Date: 2022/9/8

Temperature:27.6 °C

90.0 dBuV/m

Time: 下午 11:51:14

Humidity:61 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: **Vertical**

EUT : W6M22207-21977

Power : 120 Va.c.

M/N:

Distance: 3m

Test Mode : TX 921.4MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	1310.621	43.79	peak	-7.95	35.84	74.00	150	227	-38.16	
*	1757.515	43.68	peak	-5.86	37.82	74.00	150	90	-36.18	



Radiated Emission Measurement

Operator: Sky

File :3

Data :#3

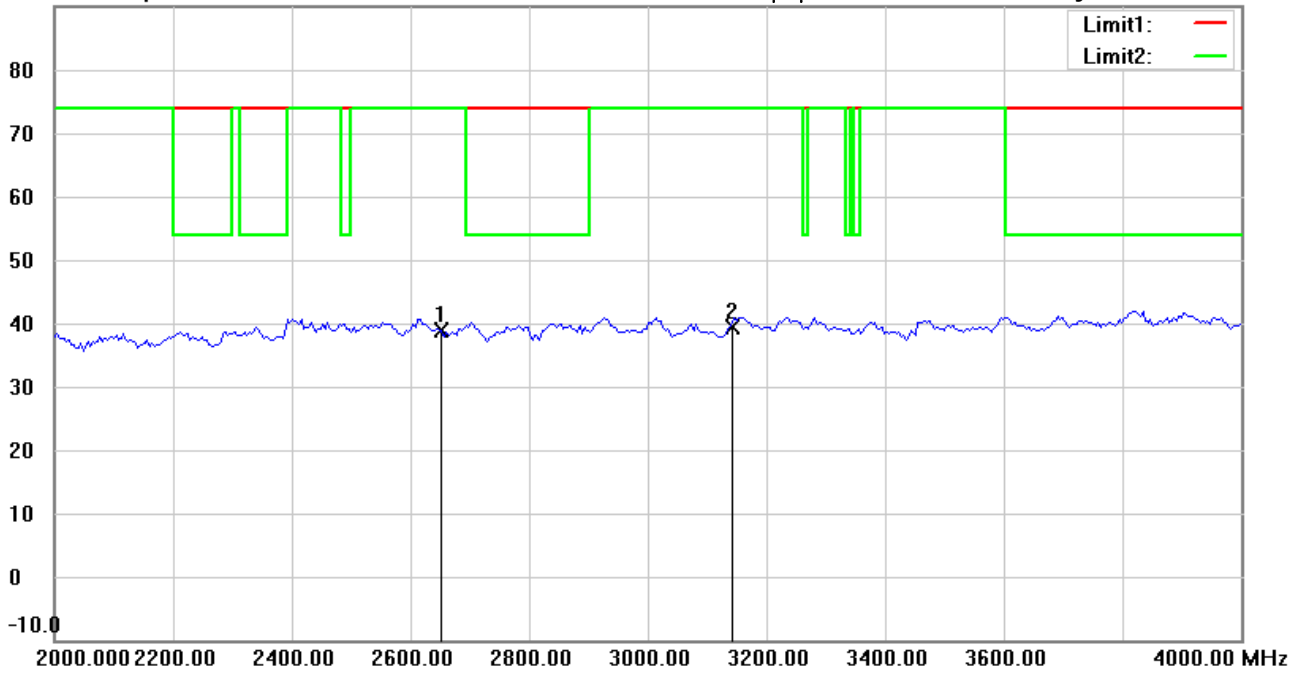
Date: 2022/9/8

Temperature:27.6 °C

90.0 dBuV/m

Time: 下午 11:52:25

Humidity:61 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M22207-21977

Power : 120 Va.c.

M/N:

Distance: 3m

Test Mode : TX 921.4MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2649.299	42.06	peak	-3.25	38.81	74.00	150	207	-35.19	
*	3138.277	42.08	peak	-2.63	39.45	74.00	150	116	-34.55	



Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
 Tel:+886-2-6606-8877
 Fax:+886-2-6606-8879

Radiated Emission Measurement

Operator: Sky

File :3

Data :#4

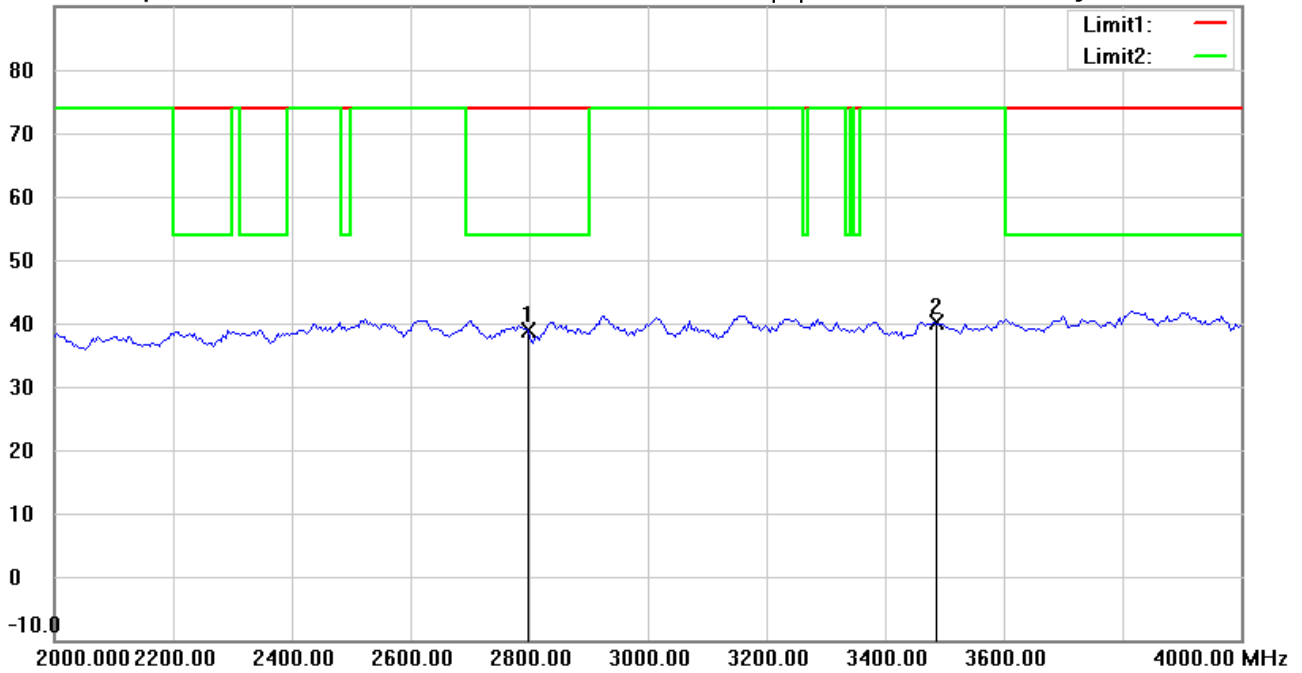
Date: 2022/9/8

Temperature:27.6 °C

90.0 dBuV/m

Time: 下午 11:53:28

Humidity:61 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: **Vertical**

EUT : W6M22207-21977

Power : 120 Va.c.

M/N:

Distance: 3m

Test Mode : TX 921.4MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2797.595	42.37	peak	-3.54	38.83	74.00	150	107	-35.17	
*	3482.966	42.63	peak	-2.40	40.23	74.00	150	30	-33.77	

*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Sky

File :3

Data :#5

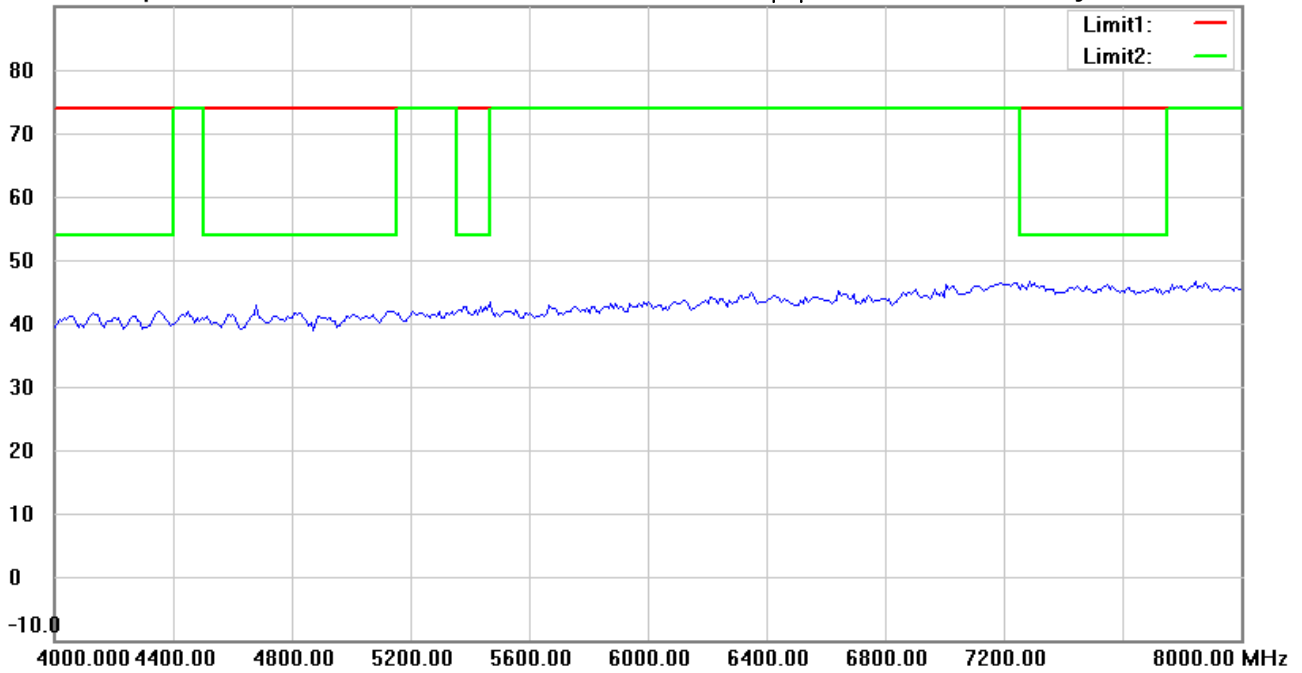
Date: 2022/9/8

Temperature:27.6 °C

90.0 dBuV/m

Time: 下午 11:54:50

Humidity:61 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M22207-21977

Power : 120 Va.c.

M/N:

Distance: 3m

Test Mode : TX 921.4MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Sky

File :3

Data :#6

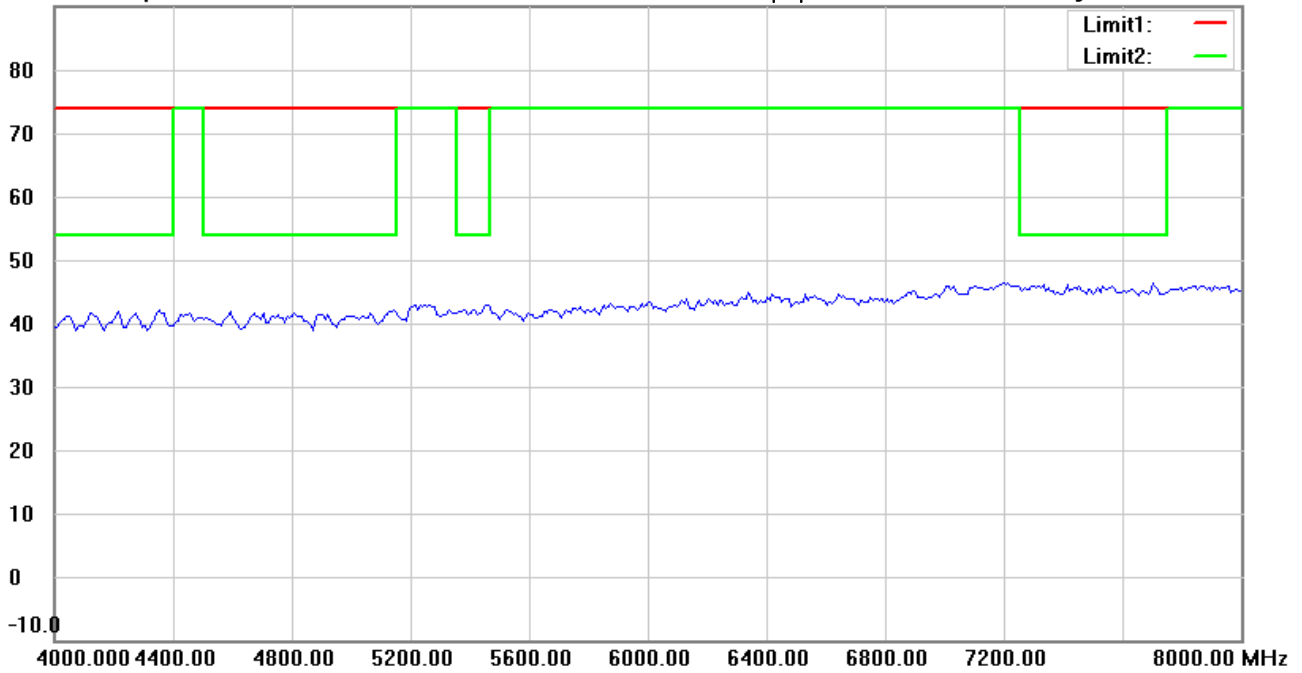
Date: 2022/9/8

Temperature:27.6 °C

90.0 dBuV/m

Time: 下午 11:55:53

Humidity:61 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: **Vertical**

EUT : W6M22207-21977

Power : 120 Va.c.

M/N:

Distance: 3m

Test Mode : TX 921.4MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Sky

File :3

Data :#7

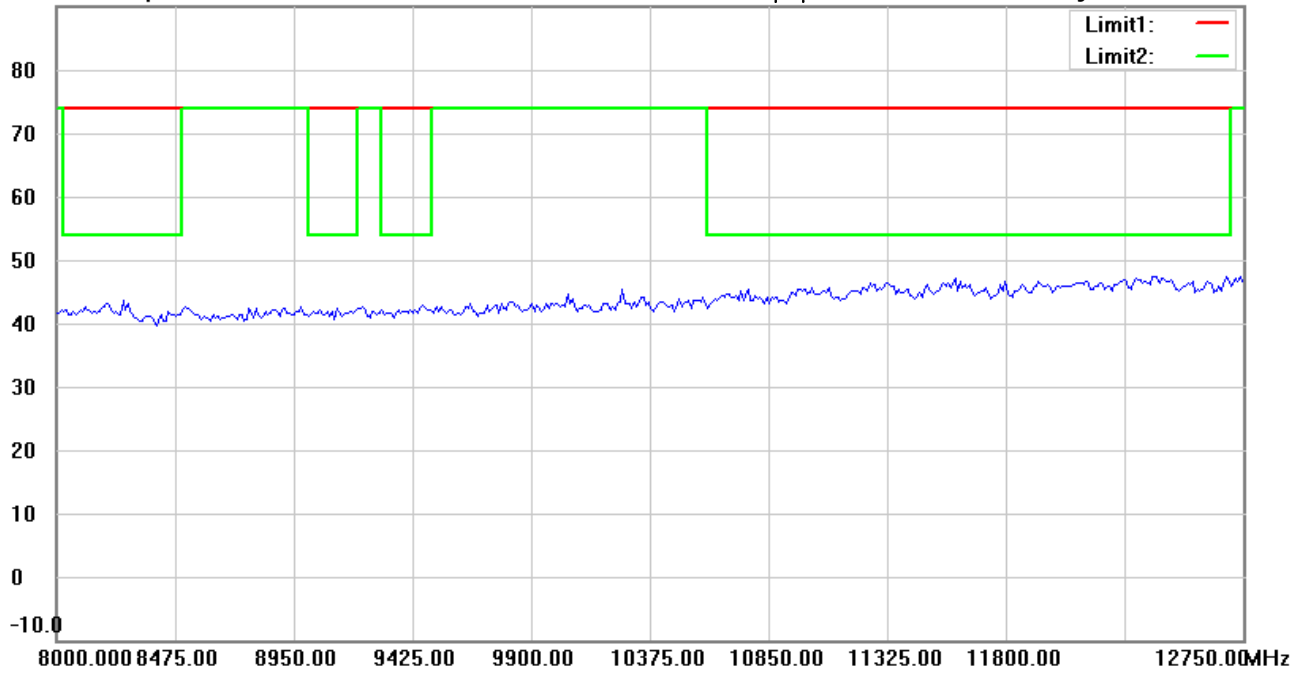
Date: 2022/9/8

Temperature:27.6 °C

90.0 dBuV/m

Time: 下午 11:57:20

Humidity:61 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M22207-21977

Power : 120 Va.c.

M/N:

Distance: 3m

Test Mode : TX 921.4MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Sky

File :3

Data :#8

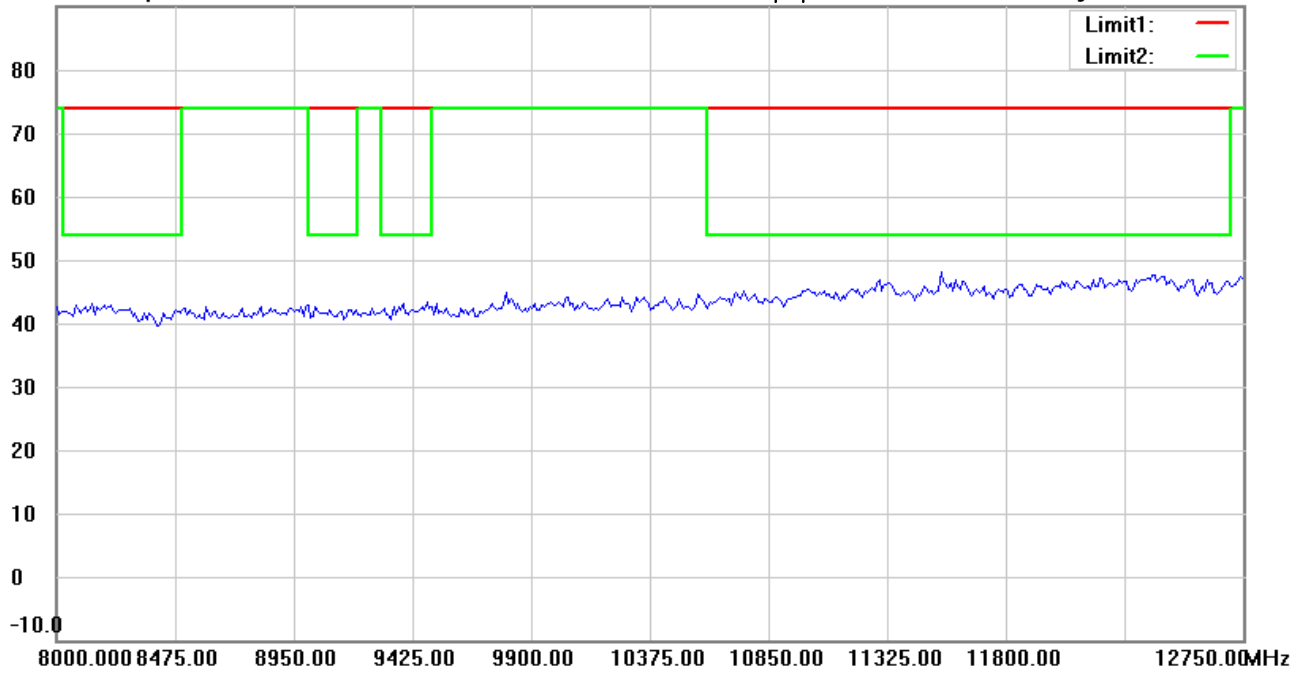
Date: 2022/9/8

Temperature:27.6 °C

90.0 dBuV/m

Time: 下午 11:58:23

Humidity:61 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M22207-21977

Power : 120 Va.c.

M/N:

Distance: 3m

Test Mode : TX 921.4MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin