

47 CFR PART 15 SUBPART C TEST REPORT

for

RF DATA RADIO

Model No.: 52-7085UE5

FCC ID: L9N-7085PUE5

of

Applicant: AES Corporation

Address: 285 Newbury Street, Peabody, MA01960 USA

Tested and Prepared

by

Worldwide Testing Services (Taiwan) Co., Ltd.

FCC Registration No.: TW1477, TW0020, TW1072

Industry Canada filed test laboratory Reg. No. 20037

A2LA Accredited No.: 2732.01



Report No.: W6M22003-19794-C-1

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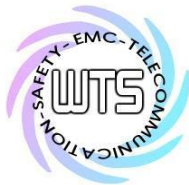
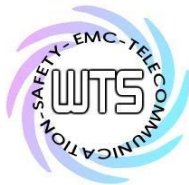


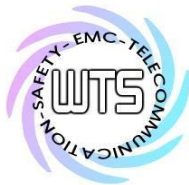
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1. General Information

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.

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.

Tester:

May 28, 2020

Sora Kuo

Sora

Date

WTS-Lab.

Name

Signature

Technical responsibility for area of testing:

May 28, 2020

Kevin Wang

Kevin Wang

Date

WTS

Name

Signature



Worldwide Testing Services(Taiwan) Co., Ltd.

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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.)
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. 20037

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: AES Corporation
Street: 285 Newbury Street, Peabody, MA01960
City: ./.
Country: USA
Telephone: 978-5357310
Fax: 978-5357313

1.4 Application details

Date of receipt of test item: April 16, 2020
Date of test: from April 17, 2020 to April 22, 2020



Registration number: W6M22003-19794-C-1

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1.5 General information of Test item

Type of test item: RF DATA RADIO

Model Number: 52-7085UE5

Brand Name: ./.

Multi-listing model number: ./.

Photos: See appendix

Technical data

Operating frequency band: 406-430 MHz, 440-470 MHz

Sample tested frequency: 406 MHz, 418MHz, 430 MHz
440 MHz, 455 MHz, 470 MHz

Channel spacing: 12.5 kHz, 25 kHz

Type of modulation: FM

Designation of emission: 16K0F3E / 11K0F3E (406MHz~430MHz, 440MHz ~470MHz)

Antenna Type / Gain: Monopole antenna / 3 dBi

Connection of Antenna: ☒ detachable ☐ not detachable

Power Rating: 13.8 Vd.c.

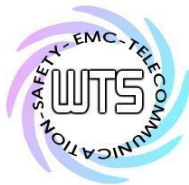
Operation modes: Half-duplex

Manufacturer: (if applicable)

Name: Hermes Electronics Co., Ltd
Street: No 185-1, 4FL, 38th Road, Taichung Industrial Park,
Town: Taichung (407)
Country: Taiwan

1.6 Test standards

Technical standard: 47 CFR PART 90 (2019-10)



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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

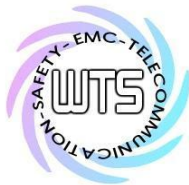
The deviations were ascertained in the course of the tests performed. ☐

2.2 Test environment

Relative humidity content: 20 ... 75 %
Air pressure: 86-103 KPa

Test item Name	Uncertainty
Estimation Result of Uncertainty of Conducted Emission	Expanded Uncertainty: AMN: 1.06 dB Voltage probe: 1.12 dB
Estimation Result of Uncertainty of Radiated Emission(3M)	Expanded Uncertainty: 0.009-30 MHz: 1.88 dB 30-1000 MHz: 2.79 dB 1-18 GHz: 2.36 dB 18-40 GHz: 1.55 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: 1.14 dB
Estimation Result of Uncertainty of Conducted Spurious Emission Measurement Conducted spurious emission、Spectrum emission mask	Expanded Uncertainty: 1.45 dB
Estimation Result of Uncertainty of EIRP Measurement EIRP, ERP, Output power(dBm), Radiated spurious emission (dBm), Receiver spurious radiations (≥ 30 MHz)	Expanded Uncertainty: 30-200MHz: 2.32 dB 200-1000MHz: 2.32 dB 1-18GHz: 3.24 dB 18-40GHz: 2.88 dB

Measurement uncertainty is not included in the calculation of test results.



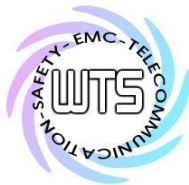
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2.3 Description of Tested System

The EUT was tested with the Accessories or Peripherals Listed below:

Equipment	Model No.	Series No.	Software	Cable information	Note
--	--	--	--	--	--
--	--	--	--	--	--

Explanation: The EUT was configured as stand-alone device, and there are no accessories or peripherals during the test.



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2.4 Test Equipment List

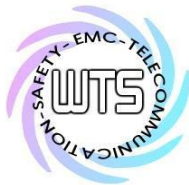
No.	Test equipment	Type	Serial No.	Manufacturer	Cal. Date	Next Cal. Date
ETSTW-CE 001	EMI TEST RECEIVER	ESHS10	842121/013	R&S	2019/6/4	2020/6/3
ETSTW-CE 003	AC POWER SOURCE	APS-9102	D161137	GW	Function Test	
ETSTW-CE 004	ZWEILEITER-V-NETZNACHBILDUNG TWO-LINE V-NETWORK	ESH3-Z5	840731/011	R&S	2019/11/1	2020/10/31
ETSTW-CE 006	IMPULSBEGRENZER PULSE LIMITER	ESH3-Z2	100226	R&S	2019/9/24	2020/9/23
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	2019/7/23	2020/7/22
ETSTW-CE 016	TWO-LINE V-NETWORK	ENV216	100050	R&S	2019/10/3	2020/10/2
ETSTW-CE 028	MXE EMI Receiver	N9038A	MY53220110	Agilent	2019/7/18	2020/7/17
ETSTW-RE 003	EMI TEST RECEIVER	ESI 26	831438/001	R&S	2019/6/4	2020/6/3
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2019/5/29	2020/5/28
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	2019/7/25	2020/7/24
ETSTW-RE 027	Passive Loop Antenna	6512	00034563	ETS-Lindgren	2019/7/22	2020/7/21
ETSTW-RE 030	Double-Ridged Guide Horn Antenna	3117	00035224	ETS-Lindgren	2020/3/25	2021/3/24
ETSTW-RE 042	Biconical Antenna	HK116	100172	R&S	2020/2/18	2021/2/17
ETSTW-RE 043	Log-Periodic Dipole Antenna	HL223	100166	R&S	2019/4/23	2020/4/22
ETSTW-RE 044	Log-Periodic Antenna	HL050	100094	R&S	2019/5/13	2020/5/12
ETSTW-RE 045	ESA-E SERIES SPECTRUM ANALYZER	E4404B	MY45111242	Agilent	Pre-test Use	
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2020/2/20	2021/2/19
ETSTW-RE 051	Attenuator 6dB	50HF-006-1	None	JFW	2020/2/20	2021/2/19
ETSTW-RE 053	Attenuator 3dB	50HF-003-1	None	JFW	2020/2/20	2021/2/19
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2020/3/6	2021/3/5
ETSTW-RE 060	Attenuator 30dB	5015-30	F651012z-01	ATM	2020/2/20	2021/2/19
ETSTW-RE 062	Amplifier Module	CHC 2	None	KMIC	2019/5/16	2020/5/15
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	2019/9/23	2020/9/22
ETSTW-RE 088	SOLID STATE AMPLIFIER	KMA180265A01	99057	KMIC	2019/9/18	2020/9/17
ETSTW-RE 091	Match Pad	MDCS1500	None	WOKEN	2019/5/9	2020/5/8
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2020/2/20	2021/2/19
ETSTW-RE 112	AC POWER SOURCE	TFC-1005	T-0A023536	T-Power	Function test	



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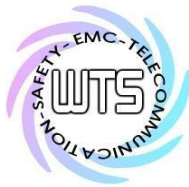
ETSTW-RE 115	2.4GHz Notch Filter	N0124411	473874	MICROWAVE CIRCUITS	2020/1/13	2021/1/12
ETSTW-RE 120	RF Player	MP9200	MP9210-111022	ADIVIC	Function test	
ETSTW-RE 122	SIGNAL GENERATOR	SMF100A	102149	R&S	2019/6/3	2020/6/2
ETSTW-RE 125	5GHz Notch filter	5NSL11-5200/E221.3-O/O	1	K&L Microwave	2019/8/8	2020/8/7
ETSTW-RE 126	5GHz Notch filter	5NSL12-5800/E221.3-O/O	1	K&L Microwave	2019/8/8	2020/8/7
ETSTW-RE 127	RF Switch Box	RFS-01	None	WTS	2020/2/20	2021/2/19
ETSTW-RE 128	5.3GHz Notch filter	N0153001	SN487233	Microwave Circuits	2019/8/8	2020/8/7
ETSTW-RE 129	5.5GHz Notch filter	N0555984	SN487234	Microwave Circuits	2019/8/8	2020/8/7
ETSTW-RE 130	Handheld RF Spectrum Analyzer	N9340A	CN0147000204	Agilent	Pre-test Use	
ETSTW-RE 142	Amplifier	8447D	2805A03378	Agilent	2019/5/16	2020/5/15
ETSTW-RE 147	Bi-log Hybrid Antenna	MCTD 2786B	BLB16M04005	ETC	2020/3/25	2021/3/34
ETSTW-RF 002	Electromagnetic field probe	LF-30	K-0007	STT	2019/5/27	2020/5/26
ETSTW-EMI 011	USB Compact Modulator	SFC-U	101689	R&S	2019/5/16	2020/5/15
ETSTW-GSM 002	Universal Radio Communication Tester	CMU 200	109439	R&S	2020/3/4	2021/3/3
ETSTW-GSM 003	Radio Communication Analyzer	MT8820C	6201342073	Anritsu	2020/3/25	2021/3/24
ETSTW-GSM 004	Wideband Radio Communication Tester	CMW500	128092	R&S	2019/10/25	2020/10/24
ETSTW-GSM 019	Band Reject Filter	WRCTF824/849-822/851-40 /12+9SS	3	WI	2020/1/13	2021/1/12
ETSTW-GSM 020	Band Reject Filter	WRCD1747/1748-1743/1752-32/5SS	1	WI	2020/1/13	2021/1/12
ETSTW-GSM 021	Band Reject Filter	WRCD1879.5/1880.5-1875.5/1884.5-32/5SS	3	WI	2020/1/13	2021/1/12
ETSTW-GSM 022	Band Reject Filter	WRCT901.9/903.1-904.25-50/8SS	1	WI	2020/1/13	2021/1/12
ETSTW-GSM 023	Power Divider	4901.19.A	None	SUHNER	2019/9/12	2020/9/11
ETSTW-GSM 024	Radio Communication Analyzer	MT8821C	None	Anritsu	2020/3/4	2021/3/3
ETSTW-GSM 025	Band Reject Filter	BRM19835	001	Micro-Tronics	2019/8/9	2020/8/8
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	2020/2/20	2021/2/19
ETSTW-Cable 017	BNC Cable	X Cable	B Cable 2	Schwarz beck	2020/2/20	2021/2/19
ETSTW-Cable 018	BNC Cable	Y Cable	B Cable 3	Schwarz beck	2020/2/20	2021/2/19
ETSTW-Cable 019	BNC Cable	Z Cable	B Cable 4	Schwarz beck	2020/2/20	2021/2/19
ETSTW-Cable 020	N TYPE Cable	OATS Cable 1	N30N30-L335-15M	JYE BAO CO.,LTD.	2019/7/2	2020/7/1
ETSTW-Cable 026	Microwave Cable	SUCOFLEX 104	279075	HUBER+SUHNER	2020/2/20	2021/2/19
ETSTW-Cable 027	Microwave Cable	SUCOFLEX 104	279083	HUBER+SUHNER	2019/5/14	2020/5/13
ETSTW-Cable 028	Microwave Cable	FA147A0015M2020	30064-2	UTIFLEX	2019/9/18	2020/9/17
ETSTW-Cable 029	Microwave Cable	FA147A0015M2020	30064-3	UTIFLEX	2019/9/18	2020/9/17
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S_Cable 9)	279067	HUBER+SUHNER	2020/2/20	2021/2/19
ETSTW-Cable 043	Microwave Cable	SUCOFLEX 104	317576	HUBER+SUHNER	2019/5/16	2020/5/15
ETSTW-Cable 058	Microwave Cable	SUCOFLEX 104	none	HUBER+SUHNER	2019/6/6	2020/6/5



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ETSTW-Cable 064	Microwave Cable	SUCOFLEX 104	MY28891	HUBER+SUHNER	2019/5/16	2020/5/15
ETSTW-Cable 066	SMA type cable	32022	None	ASTROLAB	2019/9/24	2020/9/23
ETSTW-Cable 071	N TYPE CABLE	EMCCFD400-NM-NM-25000	170239	EMCI	2019/6/6	2020/6/5
ETSTW-Cable 072	SMA type cable (8m)	SUCOFLEX 104	805800/4	HUBER+SUHNER	2019/5/16	2020/5/15
ETSTW-Cable 074	SMA type cable (2m)	SUCOFLEX 104	802563/4	HUBER+SUHNER	2019/5/16	2020/5/15
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	
ETSTW-TH 001	Thermohygrometer	608-H1	45204316	Testo	2019/9/9	2020/9/8
ETSTW-TH 002	Thermohygrometer	608-H1	45204317	Testo	2019/9/9	2020/9/8

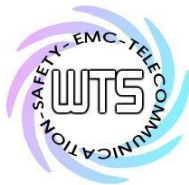


2.5 General Test Procedure

POWER LINE CONDUCTED INTERFERENCE: The procedure used was ANSI STANDARD C63.10-2013 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 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 100 kHz 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.

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

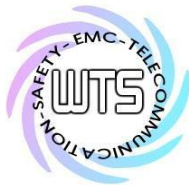


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3. Test results (enclosure)

TEST CASE	Para. Number	Required	Test passed	Test failed
Modulation Characteristics	2.1047(a) (b); 2.1033(c)	☒	☒	☐
Necessary Bandwidth	90.209	☒	☒	☐
Frequency stability.	90.213	☒	☒	☐
Transmitter Output Power	90.205	☒	☒	☐
Emission masks	90.210	☒	☒	☐
Transmitter Spurious Radiated Emission	90.210	☒	☒	☐
Transmitter Spurious Conducted Emission	90.210	☒	☒	☐
Transient frequency behavior	90.214	☒	☒	☐
Receiver Radiated Spurious Emission	FCC part 15B	☐	☐	☐

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4. Modulation Characteristics

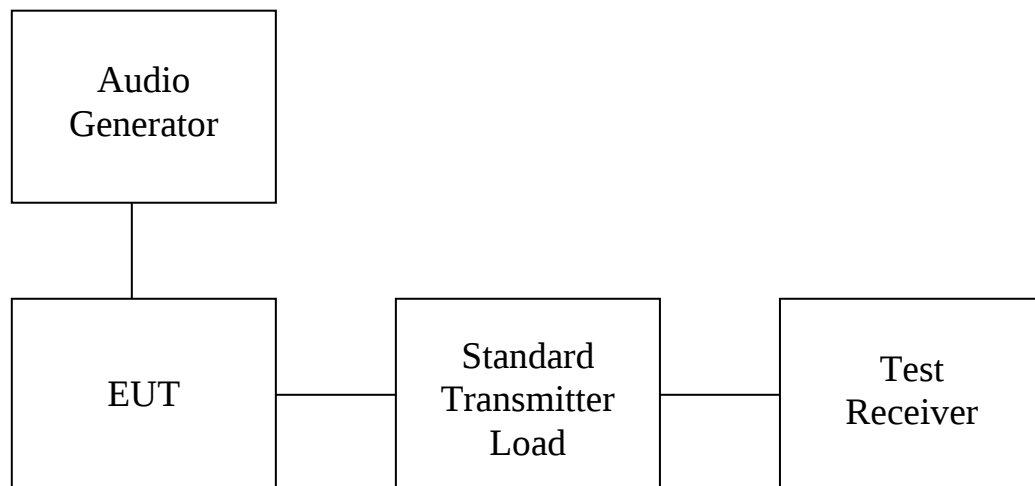
4.1 Test procedure

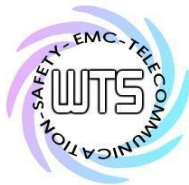
Modulation limiting is the transmitter circuit's ability to limit the transmitter from producing deviations in excess of rated system deviation.

The audio signal generator is connected to the audio input of the EUT with its full rating.

The modulation response is measured at certain modulation frequencies, related to 1000Hz reference signal. Tests are performed for positive and negative modulation.

4.2 Test Setup





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4.3 Test results

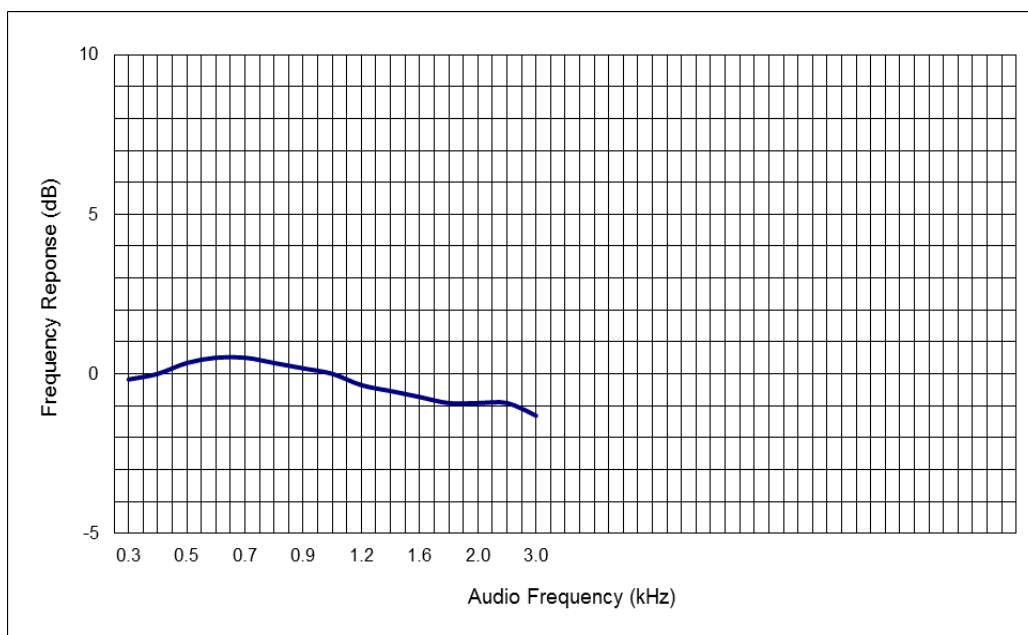
4.3.1 Audio Frequency Response

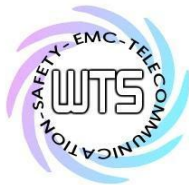
Rule Part No.: Part 2.1047(a)(b) Method of Measurement: The audio frequency response was measured in accordance with TIA/EIA Specification 603 with no exception. A curve or equivalent data showing the frequency response of the audio modulating circuit over a range of 300 – 3000Hz shall be submitted. The audio frequency response curve is shown below.

Test Audio level 20mV

Test date: April 21, 2020 Temperature: 21.9 °C Humidity: 56.8% Tester: Sora
406 MHz

Audio Frequency (kHz)	A.R (dB)	F.D.
0.3	-0.175	0.49
0.4	0.000	0.50
0.5	0.341	0.52
0.6	0.506	0.53
0.7	0.506	0.53
0.8	0.341	0.52
0.9	0.172	0.51
1.0	0.000	0.50
1.2	-0.355	0.48
1.4	-0.537	0.47
1.6	-0.724	0.46
1.8	-0.915	0.45
2.0	-0.915	0.45
2.5	-0.915	0.45
3.0	-1.310	0.43





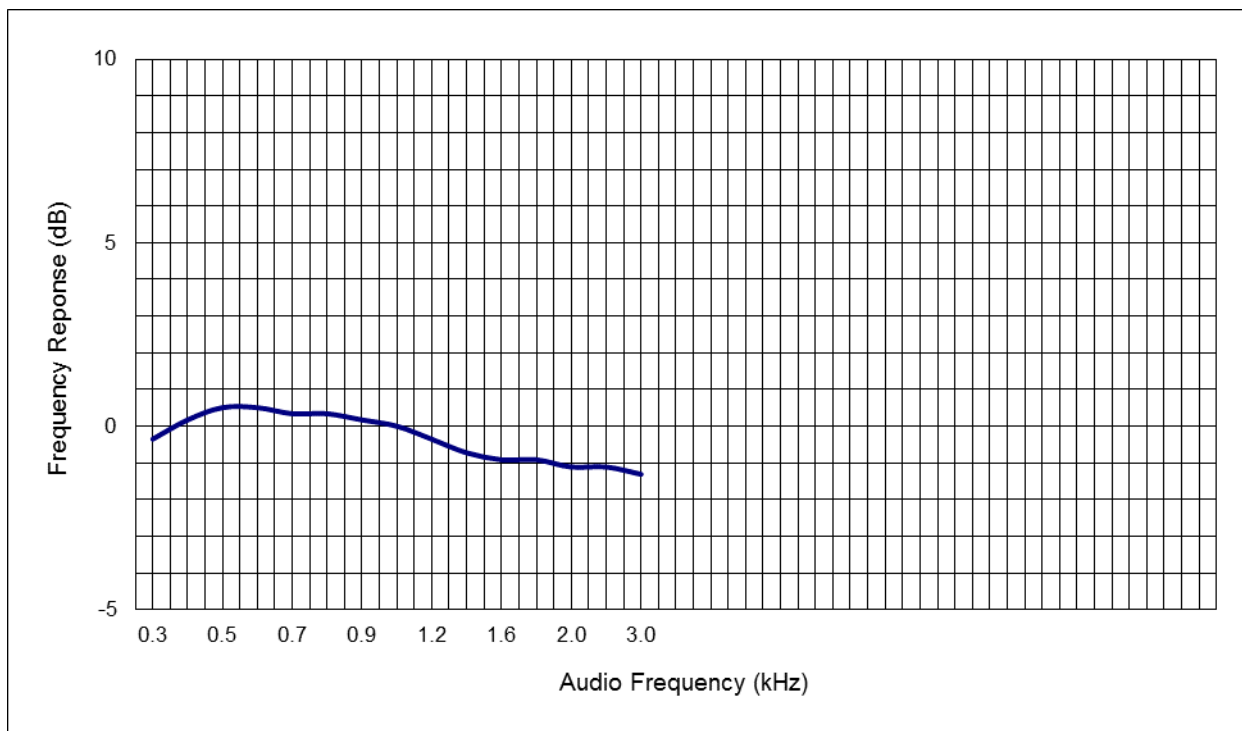
Worldwide Testing Services(Taiwan) Co., Ltd.

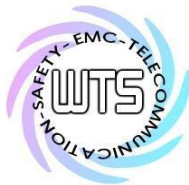
Registration number: W6M22003-19794-C-1

FCC ID: L9N-7085PUE5

418 MHz

Audio Frequency (kHz)	A.R (dB)	F.D.
0.3	-0.355	0.48
0.4	0.172	0.51
0.5	0.506	0.53
0.6	0.506	0.53
0.7	0.341	0.52
0.8	0.341	0.52
0.9	0.172	0.51
1.0	0.000	0.50
1.2	-0.355	0.48
1.4	-0.724	0.46
1.6	-0.915	0.45
1.8	-0.915	0.45
2.0	-1.110	0.44
2.5	-1.110	0.44
3.0	-1.310	0.43





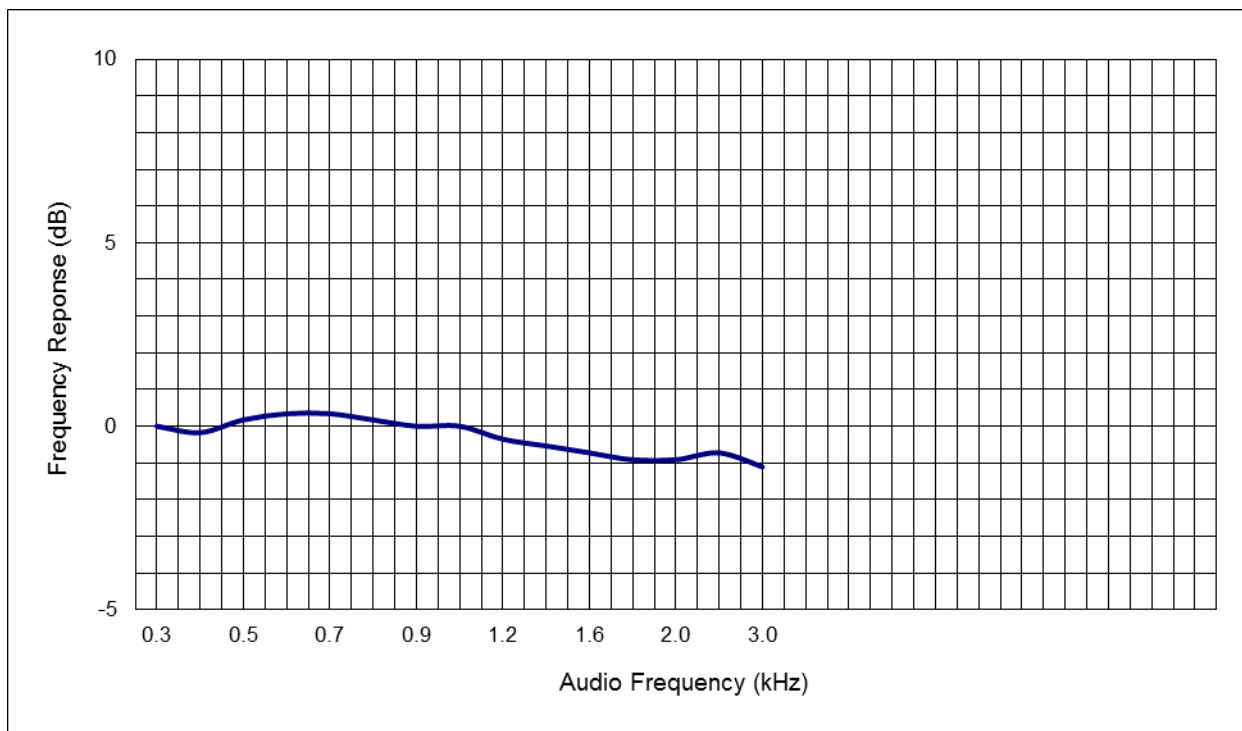
Worldwide Testing Services(Taiwan) Co., Ltd.

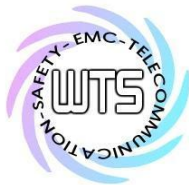
Registration number: W6M22003-19794-C-1

FCC ID: L9N-7085PUE5

430 MHz

Audio Frequency (kHz)	A.R (dB)	F.D.
0.3	0.000	0.50
0.4	-0.175	0.49
0.5	0.172	0.51
0.6	0.341	0.52
0.7	0.341	0.52
0.8	0.172	0.51
0.9	0.000	0.50
1.0	0.000	0.50
1.2	-0.355	0.48
1.4	-0.537	0.47
1.6	-0.724	0.46
1.8	-0.915	0.45
2.0	-0.915	0.45
2.5	-0.724	0.46
3.0	-1.110	0.44



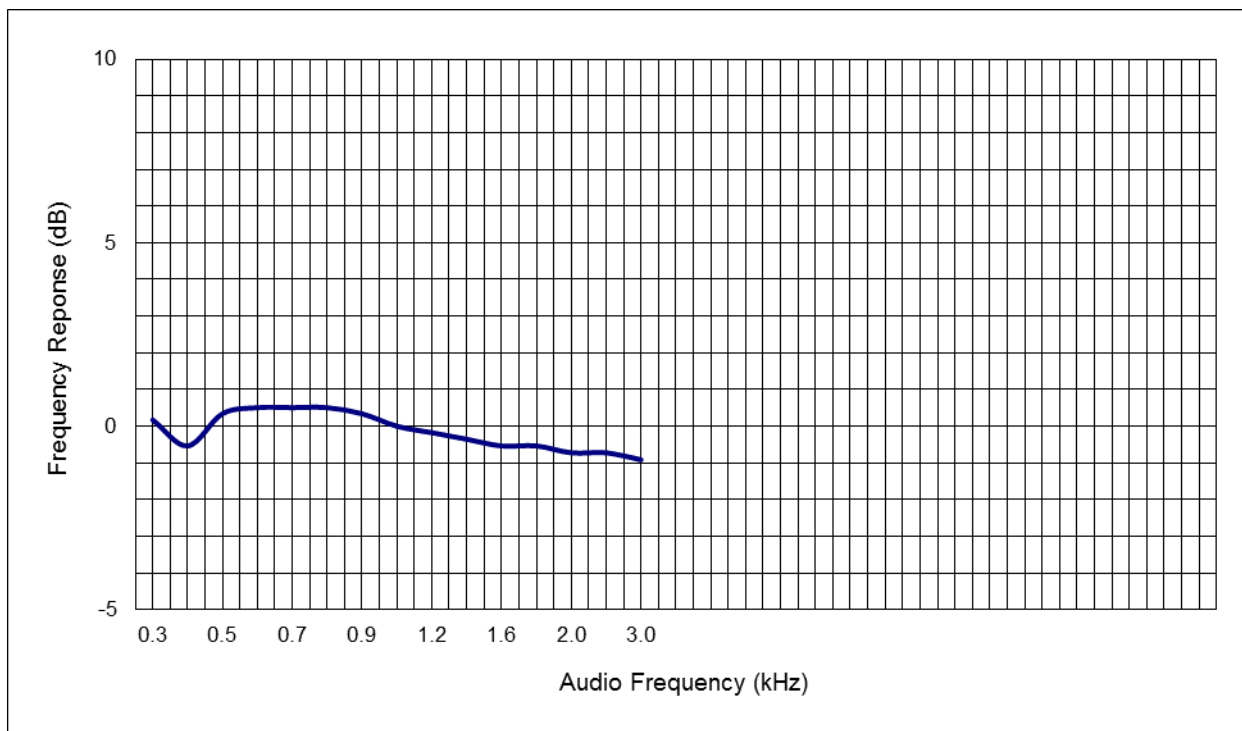


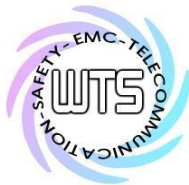
Registration number: W6M22003-19794-C-1

FCC ID: L9N-7085PUE5

440 MHz

Audio Frequency (kHz)	A.R (dB)	F.D.
0.3	0.172	0.51
0.4	-0.537	0.47
0.5	0.341	0.52
0.6	0.506	0.53
0.7	0.506	0.53
0.8	0.506	0.53
0.9	0.341	0.52
1.0	0.000	0.50
1.2	-0.175	0.49
1.4	-0.355	0.48
1.6	-0.537	0.47
1.8	-0.537	0.47
2.0	-0.724	0.46
2.5	-0.724	0.46
3.0	-0.915	0.45





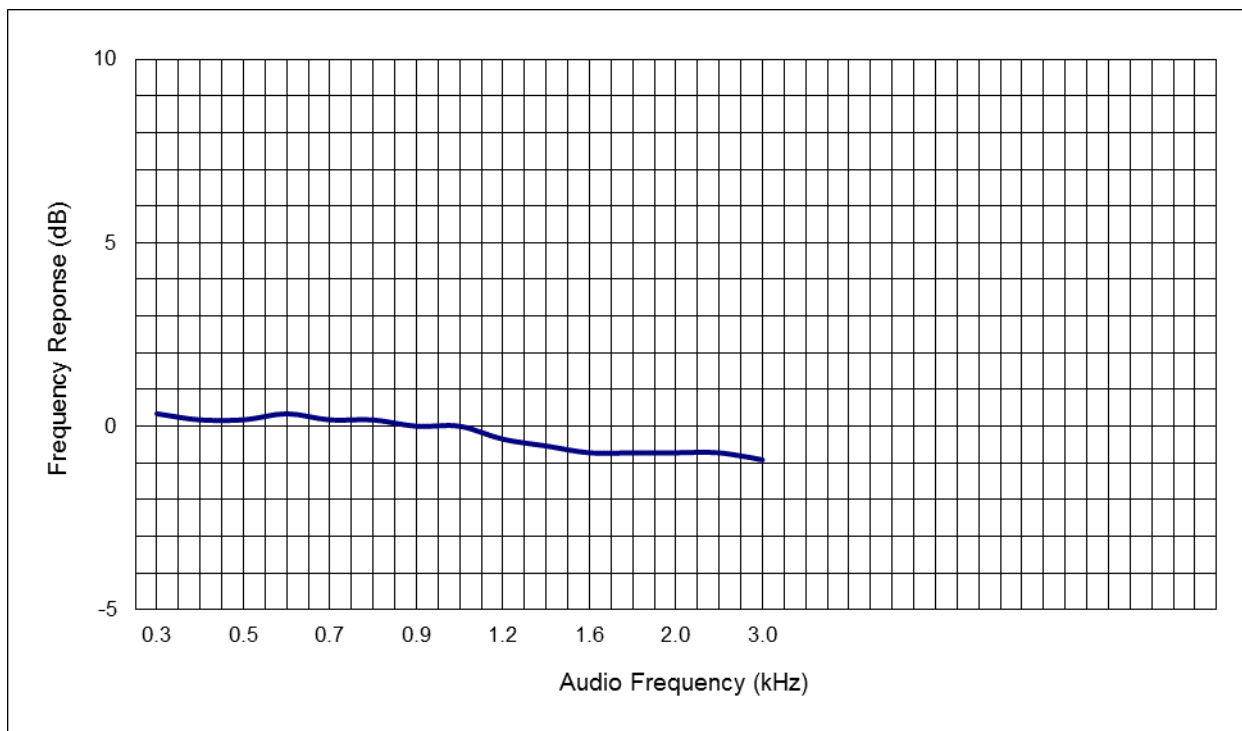
Worldwide Testing Services(Taiwan) Co., Ltd.

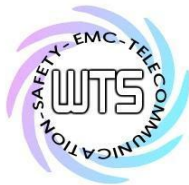
Registration number: W6M22003-19794-C-1

FCC ID: L9N-7085PUE5

455 MHz

Audio Frequency (kHz)	A.R (dB)	F.D.
0.3	0.341	0.52
0.4	0.172	0.51
0.5	0.172	0.51
0.6	0.341	0.52
0.7	0.172	0.51
0.8	0.172	0.51
0.9	0.000	0.50
1.0	0.000	0.50
1.2	-0.355	0.48
1.4	-0.537	0.47
1.6	-0.724	0.46
1.8	-0.724	0.46
2.0	-0.724	0.46
2.5	-0.724	0.46
3.0	-0.915	0.45





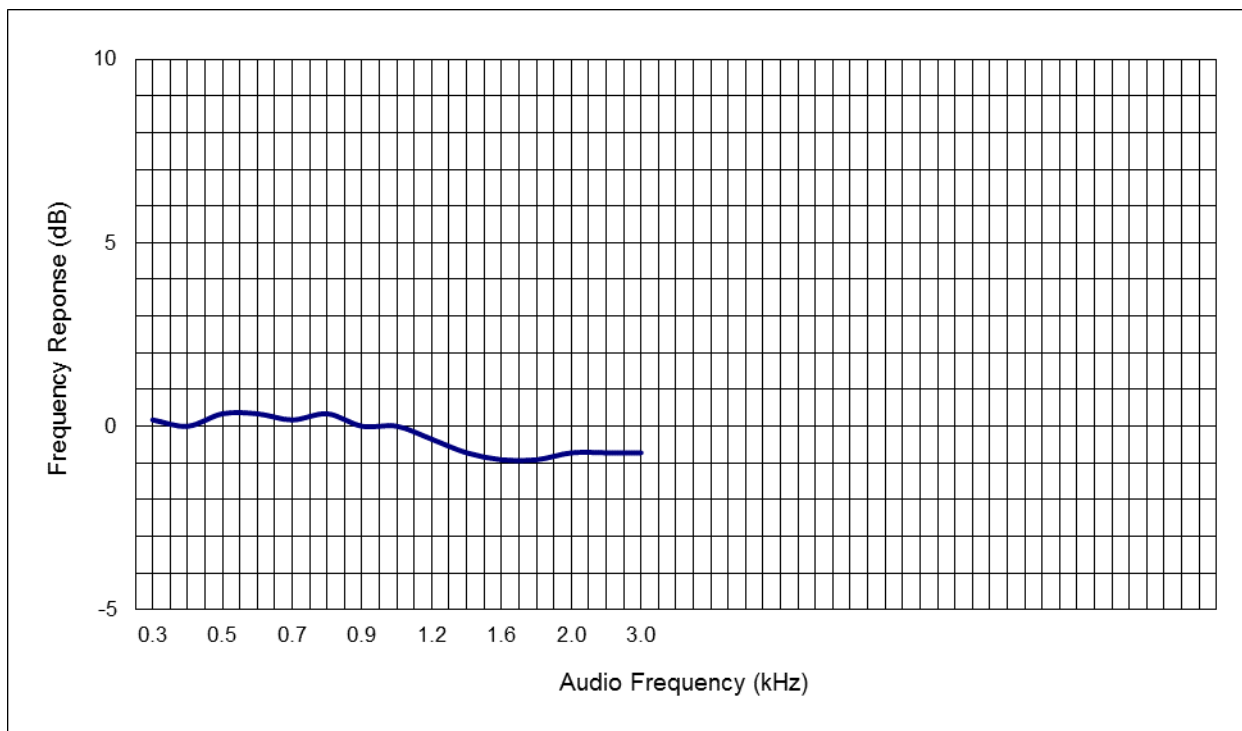
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22003-19794-C-1

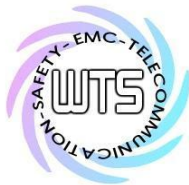
FCC ID: L9N-7085PUE5

470 MHz

Audio Frequency (kHz)	A.R (dB)	F.D.
0.3	0.172	0.51
0.4	0.000	0.50
0.5	0.341	0.52
0.6	0.341	0.52
0.7	0.172	0.51
0.8	0.341	0.52
0.9	0.000	0.50
1.0	0.000	0.50
1.2	-0.355	0.48
1.4	-0.724	0.46
1.6	-0.915	0.45
1.8	-0.915	0.45
2.0	-0.724	0.46
2.5	-0.724	0.46
3.0	-0.724	0.46



Test equipment used: ETSTW-RE 072



Registration number: W6M22003-19794-C-1
FCC ID: L9N-7085PUE5

4.3.2 AUDIO INPUT VERSUS MODULATION

Rule Part No.: Part 2.1047(b) & 90

Test Requirements: Modulation cannot exceed 100%

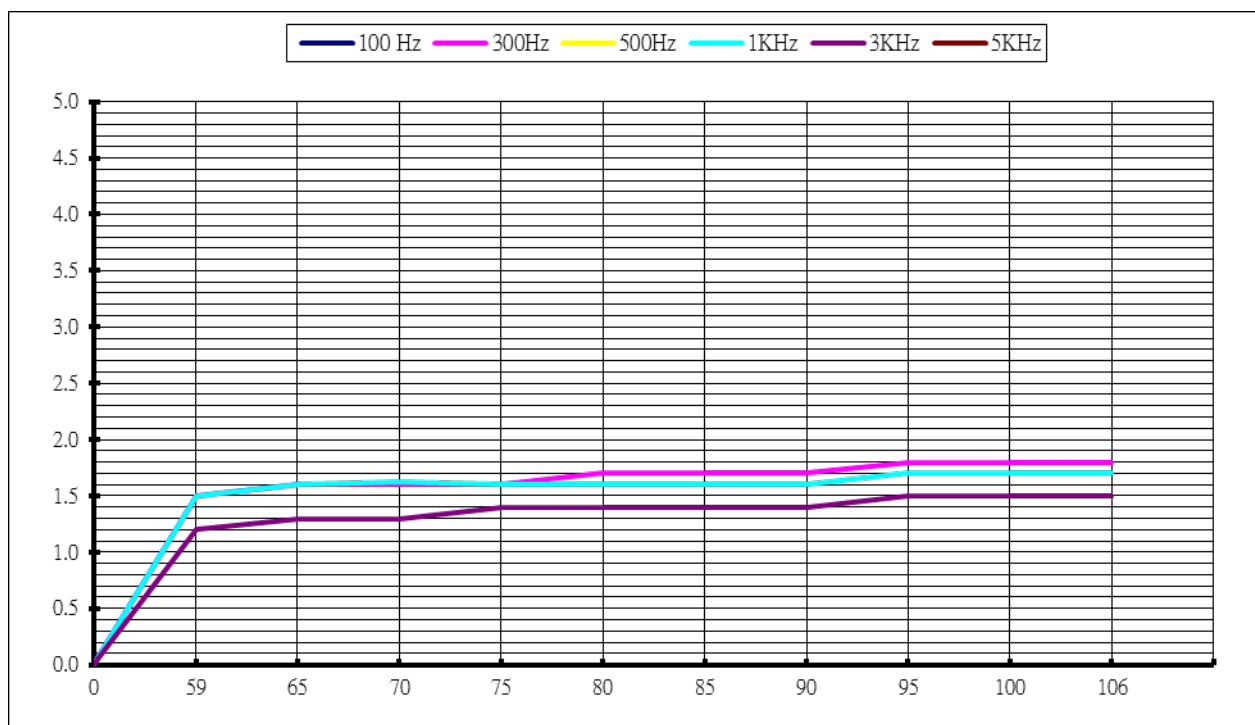
Method of Measurement: The audio input level needed for a particular percentage of modulation was measured in accordance with TIA/EIA Specification 603. The audio input curves versus modulation are shown below. Curves are provided for audio input frequencies of 300, 1000, and 3000 Hz.

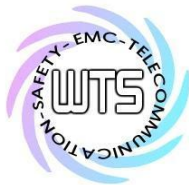
EUT Max deviation: 2.5kHz 60% EUT Max deviation: 1.5kHz

Test date: April 21, 2020 Temperature: 21.9 °C Humidity: 56.8% Tester: Sora

406 MHz

Input Audio Level (mV)	100 Hz	300Hz	500Hz	1KHz	3KHz	5kHz
0	--	0.0	--	0.0	0.0	--
59	--	1.5	--	1.5	1.2	--
65	--	1.6	--	1.6	1.3	--
70	--	1.6	--	1.6	1.3	--
75	--	1.6	--	1.6	1.4	--
80	--	1.7	--	1.6	1.4	--
85	--	1.7	--	1.6	1.4	--
90	--	1.7	--	1.6	1.4	--
95	--	1.8	--	1.7	1.5	--
100	--	1.8	--	1.7	1.5	--
106	--	1.8	--	1.7	1.5	--





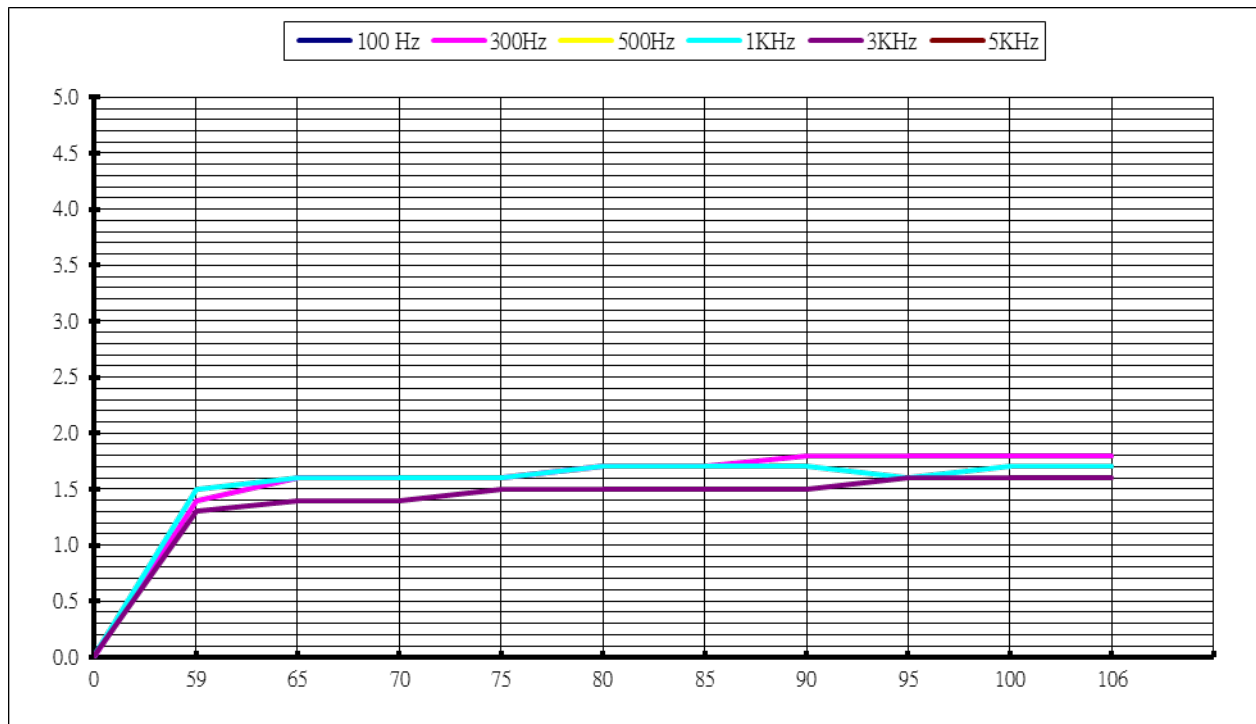
Worldwide Testing Services(Taiwan) Co., Ltd.

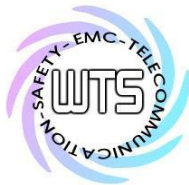
Registration number: W6M22003-19794-C-1

FCC ID: L9N-7085PUE5

418 MHz

Input Audio Level (mV)	100 Hz	300Hz	500Hz	1kHz	3kHz	5kHz
0	--	0.0	--	0.0	0.0	--
59	--	1.4	--	1.5	1.3	--
65	--	1.6	--	1.6	1.4	--
70	--	1.6	--	1.6	1.4	--
75	--	1.6	--	1.6	1.5	--
80	--	1.7	--	1.7	1.5	--
85	--	1.7	--	1.7	1.5	--
90	--	1.8	--	1.7	1.5	--
95	--	1.8	--	1.6	1.6	--
100	--	1.8	--	1.7	1.6	--
106	--	1.8	--	1.7	1.6	--





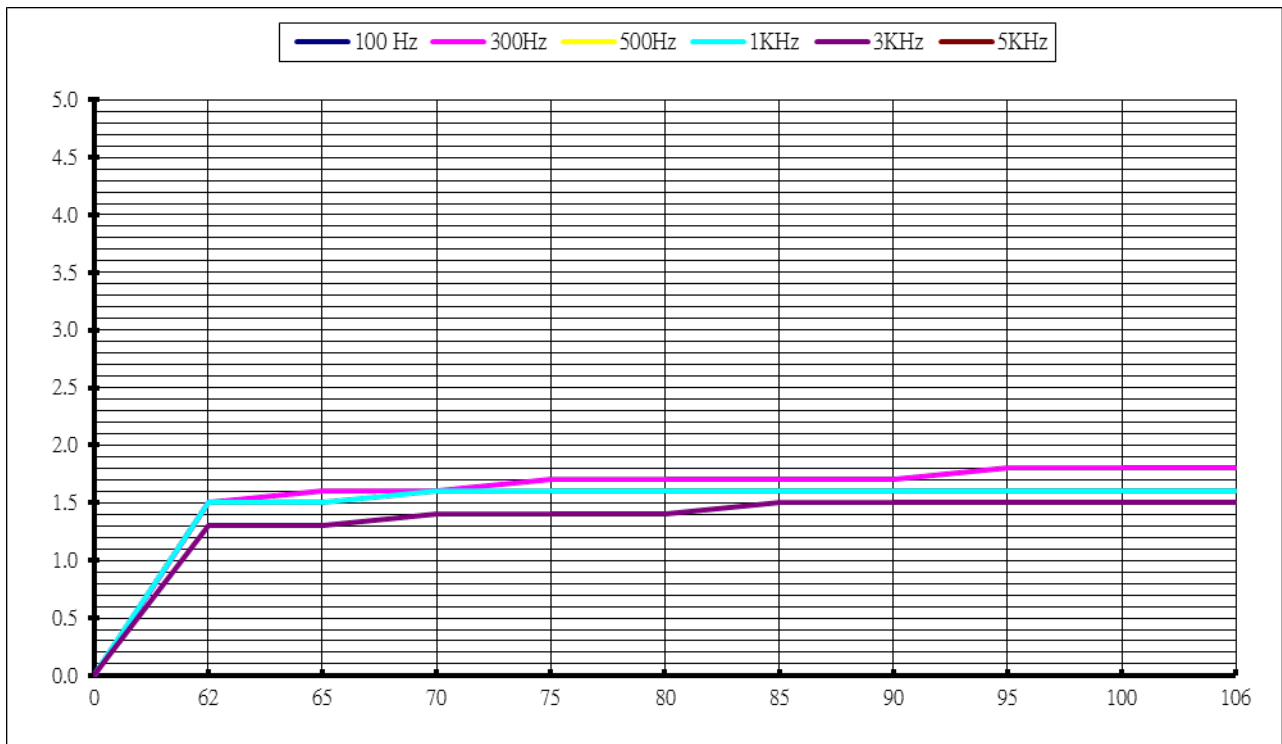
Worldwide Testing Services(Taiwan) Co., Ltd.

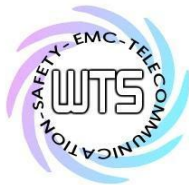
Registration number: W6M22003-19794-C-1

FCC ID: L9N-7085PUE5

430 MHz

Input Audio Level (mV)	100 Hz	300Hz	500Hz	1kHz	3kHz	5kHz
0	--	0.0	--	0.0	0.0	--
62	--	1.5	--	1.5	1.3	--
65	--	1.6	--	1.5	1.3	--
70	--	1.6	--	1.6	1.4	--
75	--	1.7	--	1.6	1.4	--
80	--	1.7	--	1.6	1.4	--
85	--	1.7	--	1.6	1.5	--
90	--	1.7	--	1.6	1.5	--
95	--	1.8	--	1.6	1.5	--
100	--	1.8	--	1.6	1.5	--
106	--	1.8	--	1.6	1.5	--





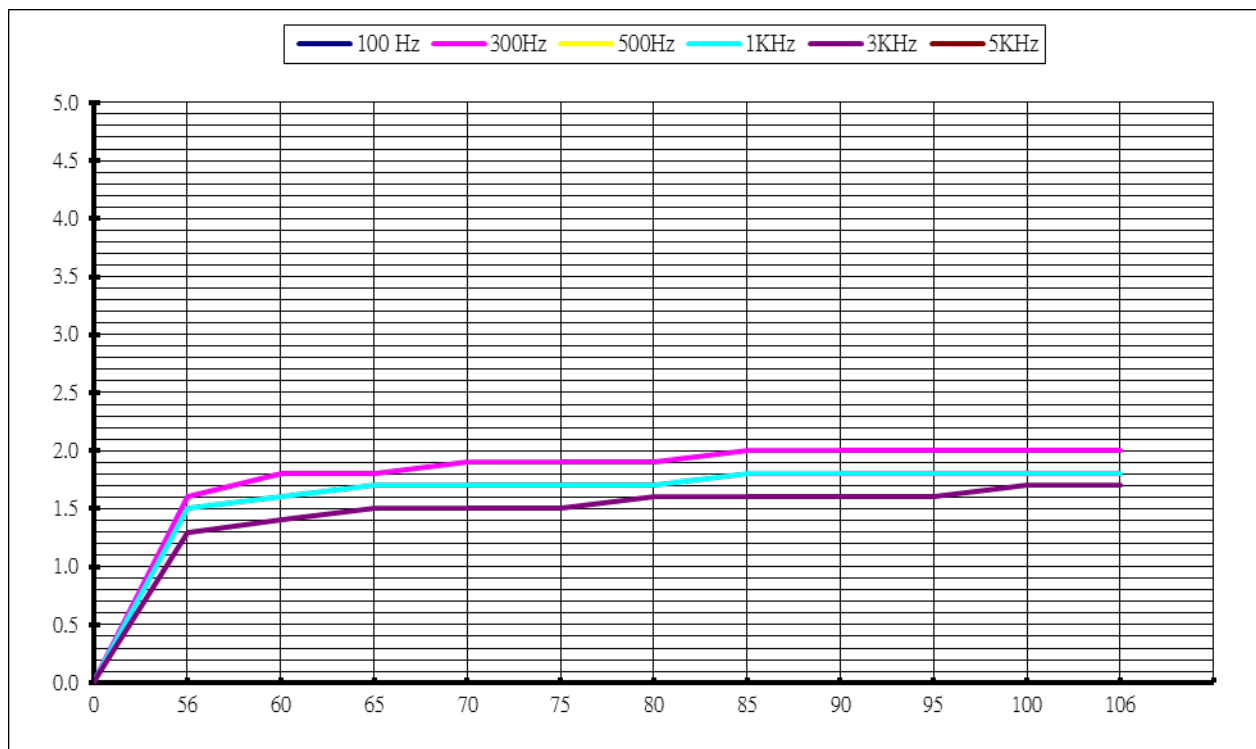
Worldwide Testing Services(Taiwan) Co., Ltd.

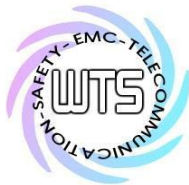
Registration number: W6M22003-19794-C-1

FCC ID: L9N-7085PUE5

440 MHz

Input Audio Level (mV)	100 Hz	300Hz	500Hz	1kHz	3kHz	5kHz
0	--	0.0	--	0.0	0.0	--
56	--	1.6	--	1.5	1.3	--
60	--	1.8	--	1.6	1.4	--
65	--	1.8	--	1.7	1.5	--
70	--	1.9	--	1.7	1.5	--
75	--	1.9	--	1.7	1.5	--
80	--	1.9	--	1.7	1.6	--
85	--	2.0	--	1.8	1.6	--
90	--	2.0	--	1.8	1.6	--
95	--	2.0	--	1.8	1.6	--
100	--	2.0	--	1.8	1.7	--
106	--	2.0	--	1.8	1.7	--





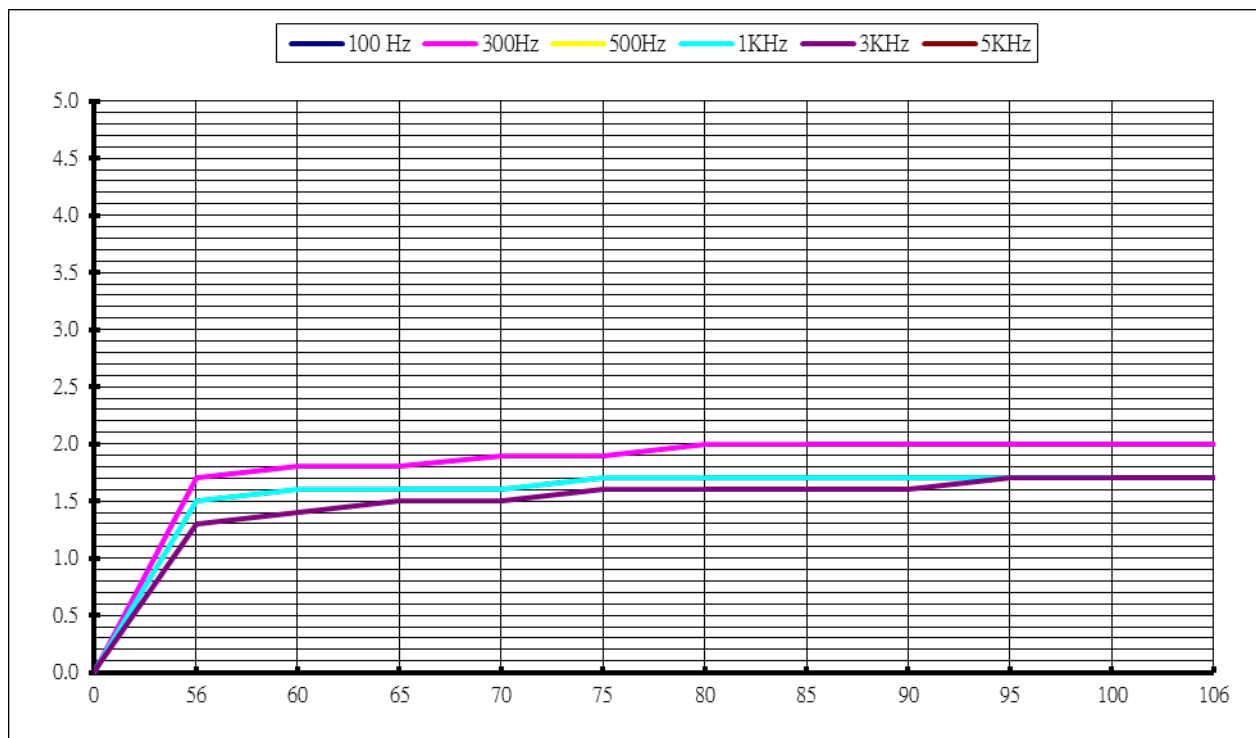
Worldwide Testing Services(Taiwan) Co., Ltd.

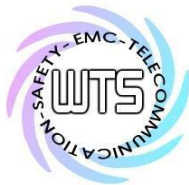
Registration number: W6M22003-19794-C-1

FCC ID: L9N-7085PUE5

455 MHz

Input Audio Level (mV)	100 Hz	300Hz	500Hz	1kHz	3kHz	5kHz
0	--	0.0	--	0.0	0.0	--
56	--	1.7	--	1.5	1.3	--
60	--	1.8	--	1.6	1.4	--
65	--	1.8	--	1.6	1.5	--
70	--	1.9	--	1.6	1.5	--
75	--	1.9	--	1.7	1.6	--
80	--	2.0	--	1.7	1.6	--
85	--	2.0	--	1.7	1.6	--
90	--	2.0	--	1.7	1.6	--
95	--	2.0	--	1.7	1.7	--
100	--	2.0	--	1.7	1.7	--
106	--	2.0	--	1.7	1.7	--





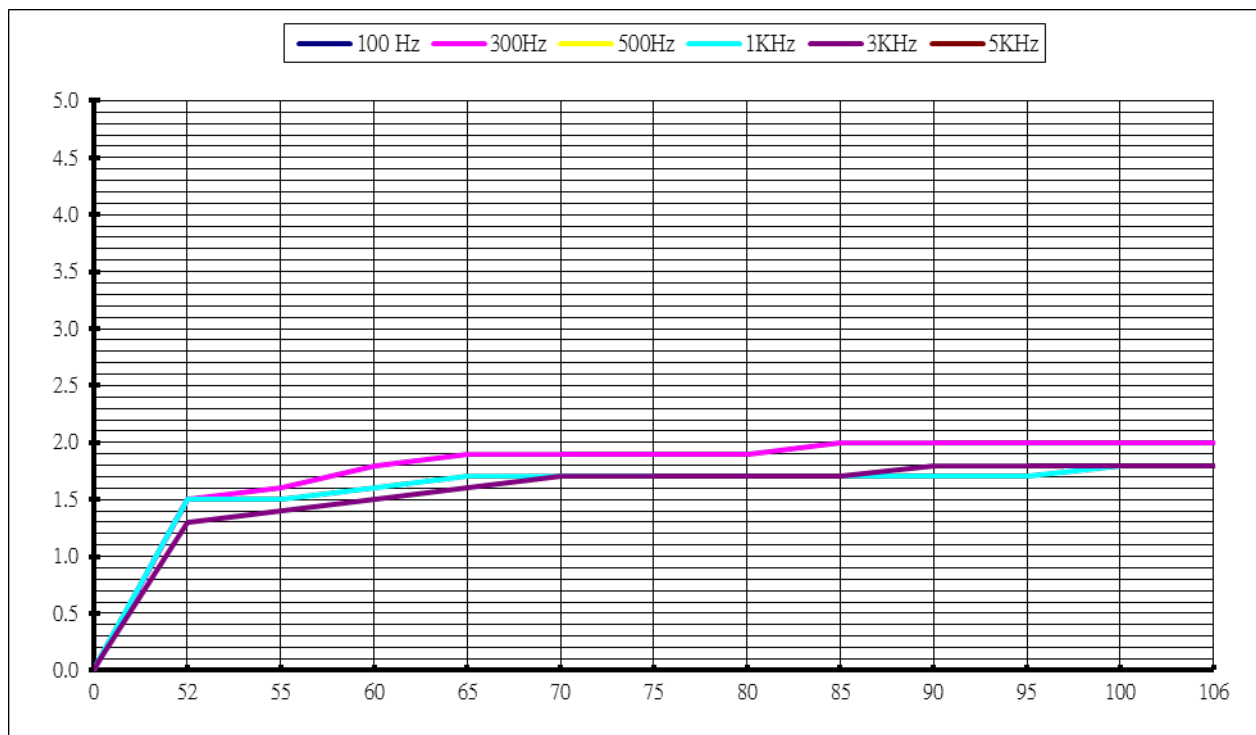
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22003-19794-C-1

FCC ID: L9N-7085PUE5

470 MHz

Input Audio Level (mV)	100 Hz	300Hz	500Hz	1kHz	3kHz	5kHz
0	--	0.0	--	0.0	0.0	--
52	--	1.5	--	1.5	1.3	--
55	--	1.6	--	1.5	1.4	--
60	--	1.8	--	1.6	1.5	--
65	--	1.9	--	1.7	1.6	--
70	--	1.9	--	1.7	1.7	--
75	--	1.9	--	1.7	1.7	--
80	--	1.9	--	1.7	1.7	--
85	--	2.0	--	1.7	1.7	--
90	--	2.0	--	1.7	1.8	--
95	--	2.0	--	1.7	1.8	--
100	--	2.0	--	1.8	1.8	--



Test equipment used: ETSTW-RE 072



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22003-19794-C-1

FCC ID: L9N-7085PUE5

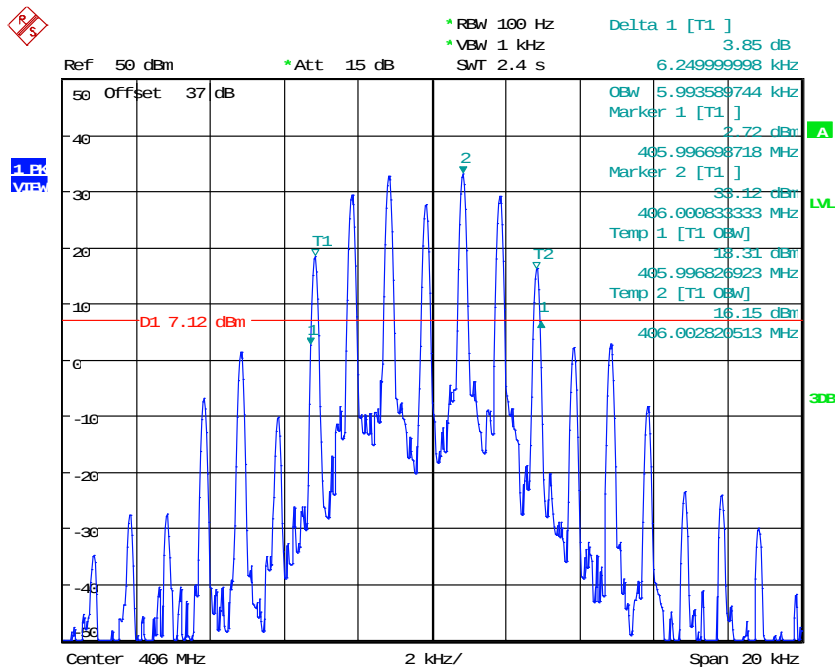
4.3.3 Necessary Bandwidth

Test date: April 20, 2020 Temperature: 22.5 °C Humidity: 55.3% Tester: Sora

12.5 kHz

Frequency (MHz)	26dB Bandwidth (kHz)	99% Occupied Bandwidth (kHz)	Max. Limit (kHz)
406	6.249999998	5.993589744	11.25
418	6.249999999	6.025641026	11.25
430	6.217948717	5.929487179	11.25
440	6.282051281	6.025641026	11.25
455	6.282051281	6.025641026	11.25
470	6.249999999	6.057692305	11.25

406 MHz



NECESSARY BANDWIDTH 12.5K 406MHZ

Date: 20.APR.2020 13:48:54

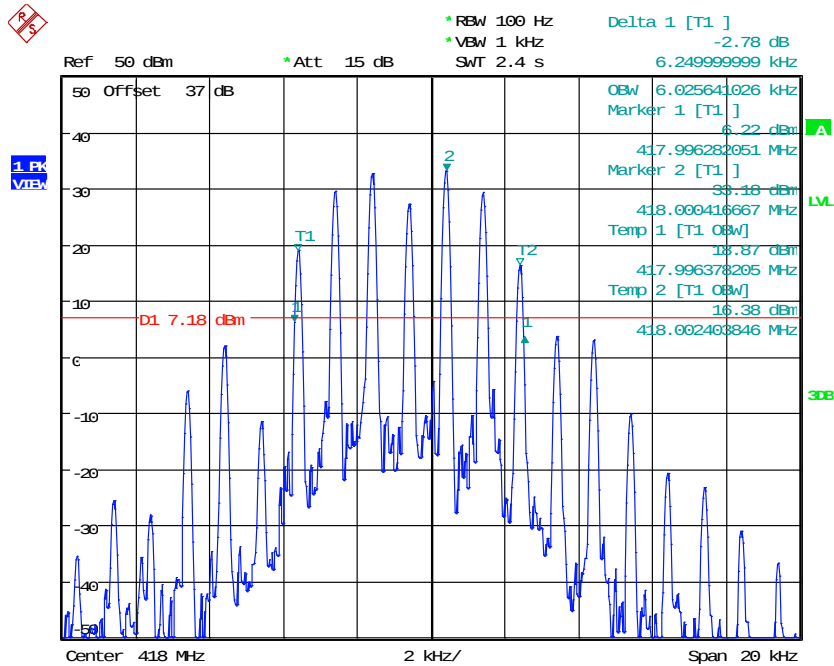


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22003-19794-C-1

FCC ID: L9N-7085PUE5

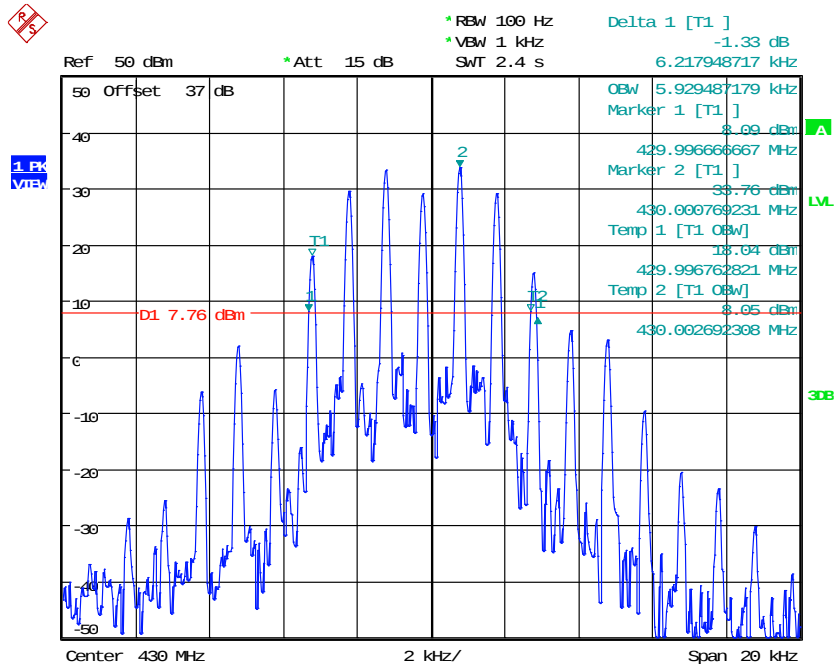
418 MHz



NECESSARY BANDWIDTH 12.5K 418MHz

Date: 20.APR.2020 13:53:20

430 MHz



NECESSARY BANDWIDTH 12.5K 430MHz

Date: 20.APR.2020 13:54:40

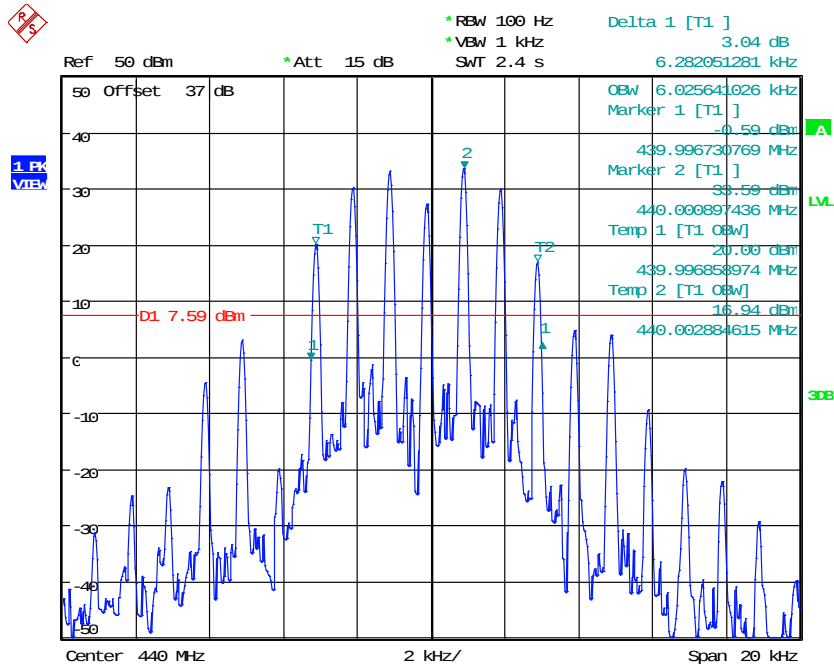


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22003-19794-C-1

FCC ID: L9N-7085PUE5

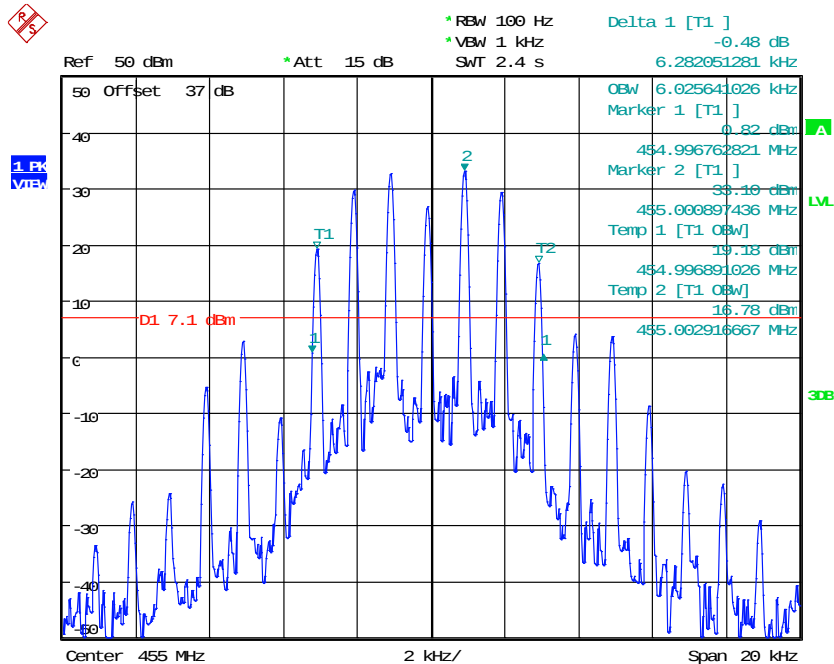
440 MHz



NECESSARY BANDWIDTH 12.5K 440MHz

Date: 20.APR.2020 13:59:41

455 MHz



NECESSARY BANDWIDTH 12.5K 455MHz

Date: 20.APR.2020 13:58:00

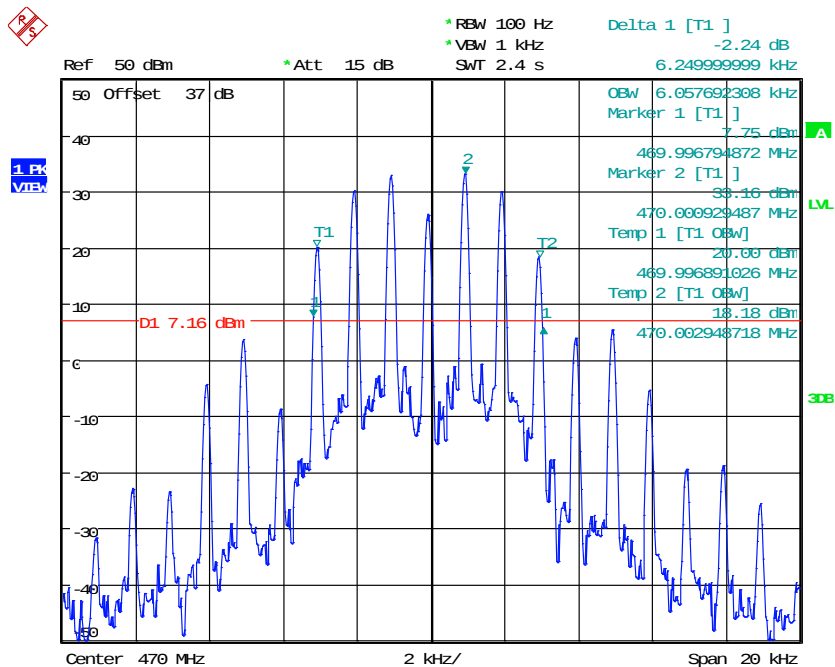


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22003-19794-C-1

FCC ID: L9N-7085PUE5

470 MHz



NECESSARY BANDWIDTH 12.5K 470MHz

Date: 20.APR.2020 14:01:21

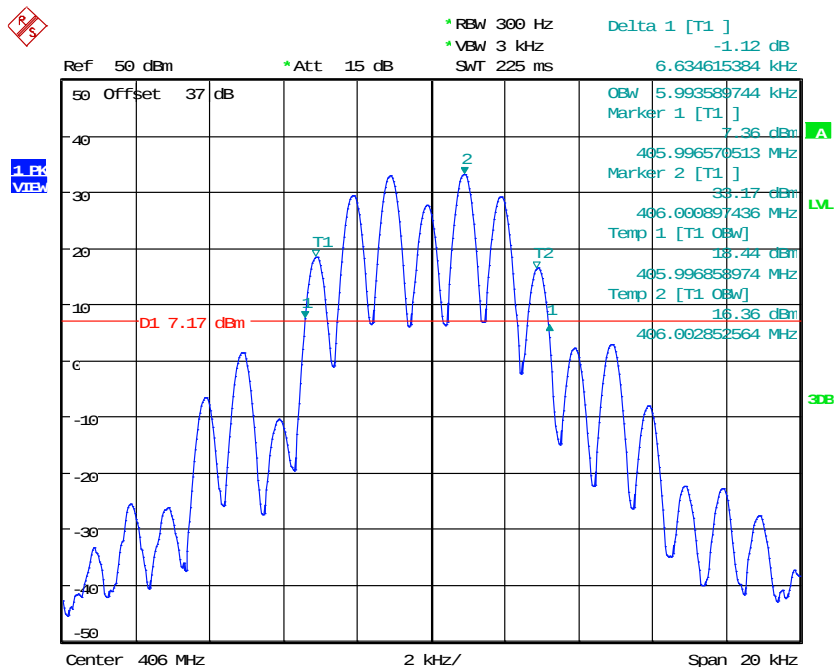


Registration number: W6M22003-19794-C-1
FCC ID: L9N-7085PUE5

25 kHz

Frequency (MHz)	26dB Bandwidth (kHz)	99% Occupied Bandwidth (kHz)	Max. Limit (kHz)
406	6.634615384	5.993589744	20
418	6.634615384	6.025641026	20
430	6.602564102	5.801282051	20
440	6.666666666	6.057692308	20
455	6.634615384	6.025641026	20
470	6.698717948	6.121794872	20

406 MHz



NECESSARY BANDWIDTH 25K 406MHz
Date: 20.APR.2020 14:11:27

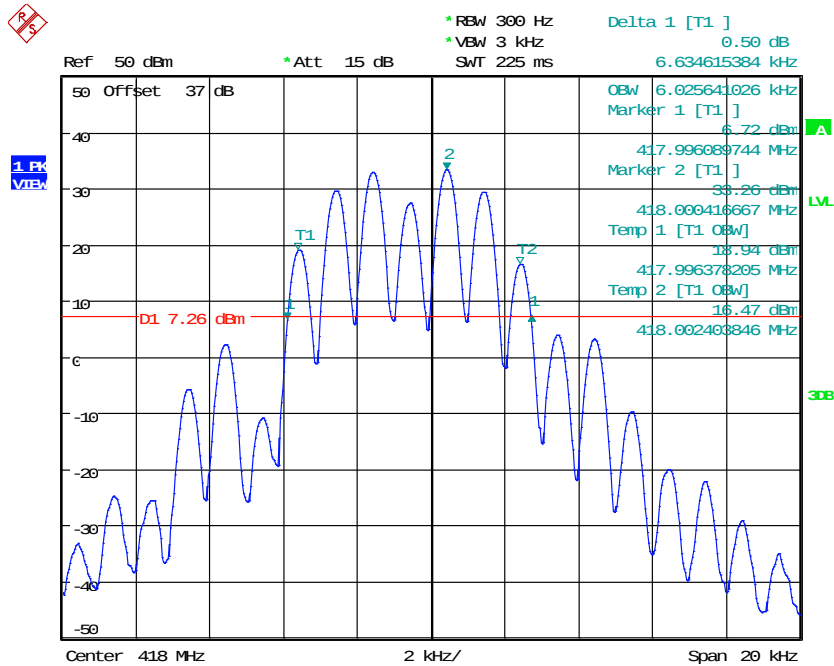


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22003-19794-C-1

FCC ID: L9N-7085PUE5

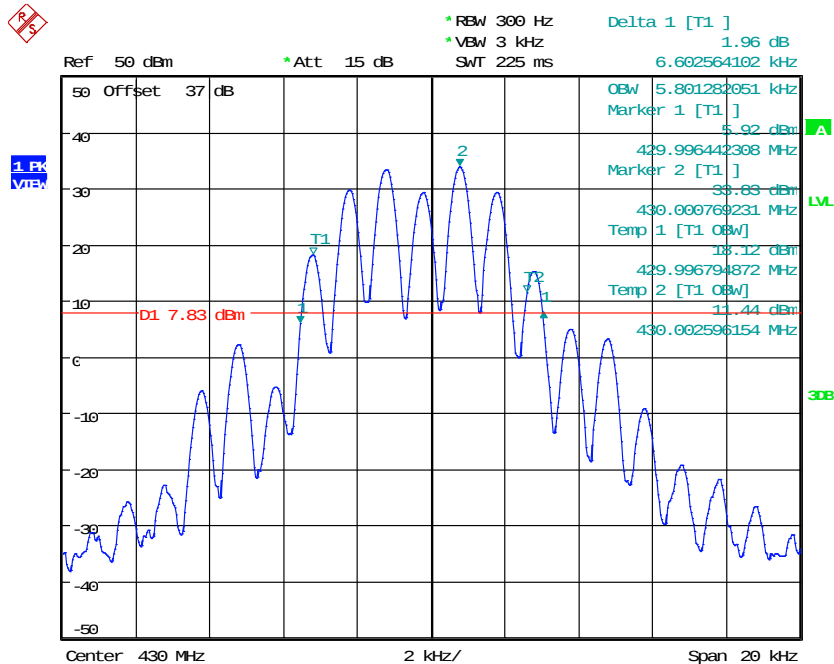
418 MHz



NECESSARY BANDWIDTH 25K 418MHz

Date: 20.APR.2020 14:09:33

430 MHz



NECESSARY BANDWIDTH 25K 430MHz

Date: 20.APR.2020 14:08:20

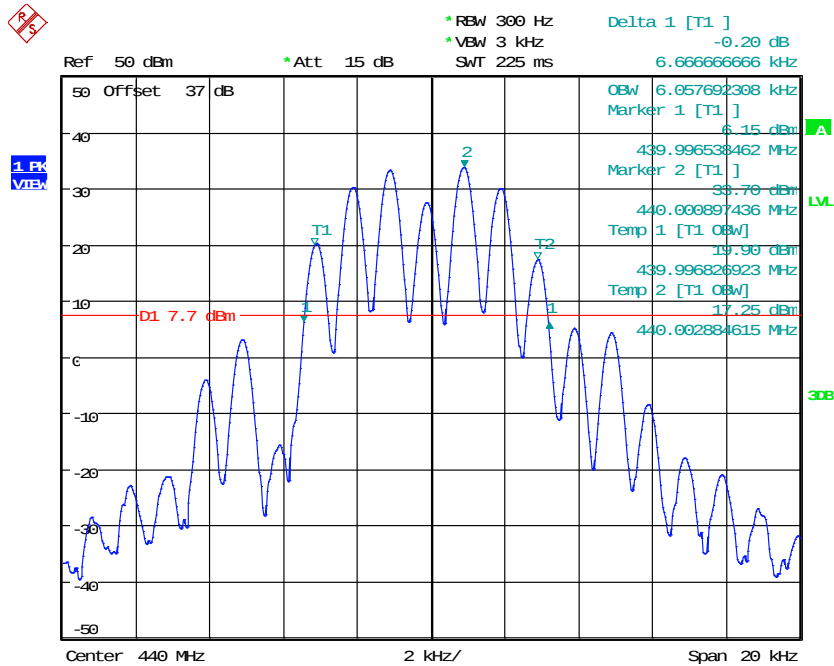


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22003-19794-C-1

FCC ID: L9N-7085PUE5

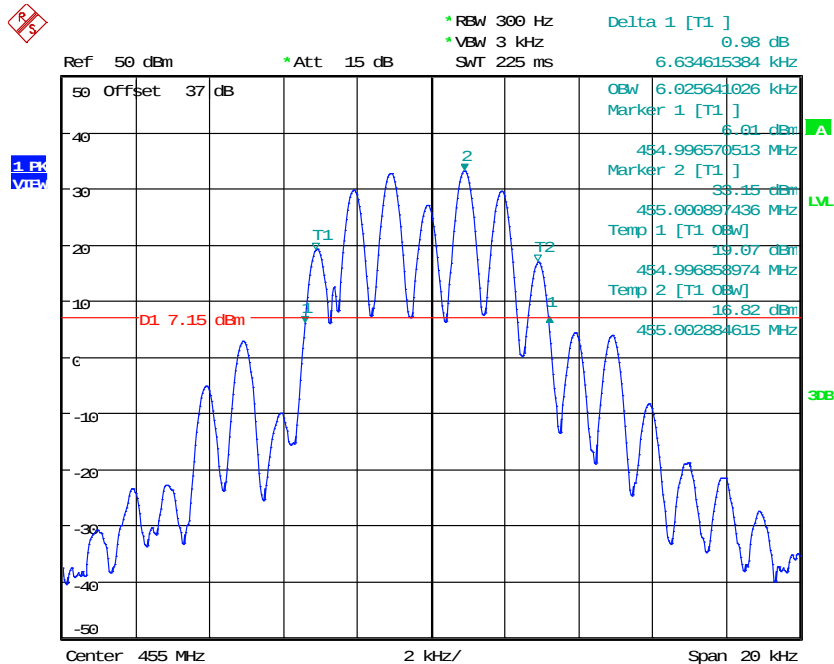
440 MHz



NECESSARY BANDWIDTH 25K 440MHz

Date: 20.APR.2020 14:06:54

455 MHz



NECESSARY BANDWIDTH 25K 455MHz

Date: 20.APR.2020 14:05:25

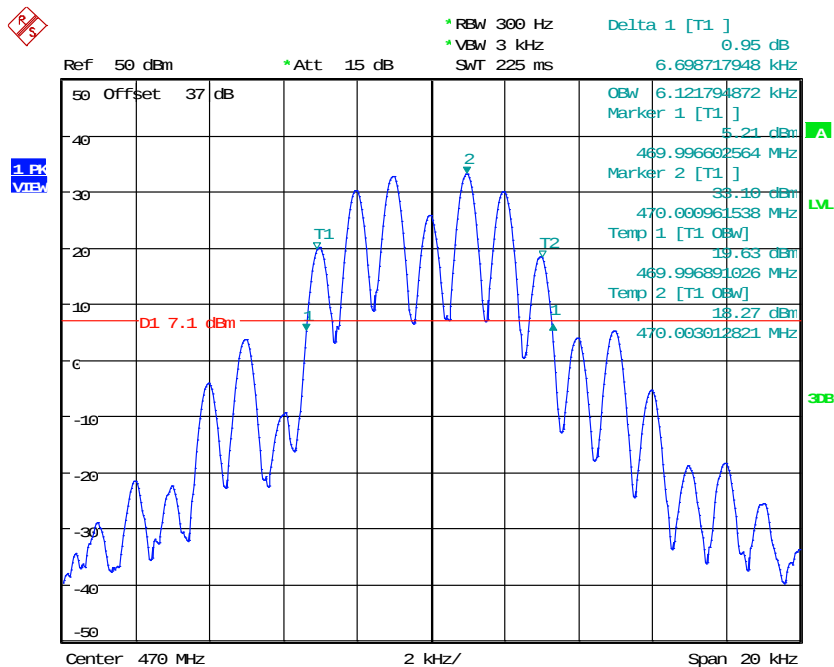


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22003-19794-C-1

FCC ID: L9N-7085PUE5

470 MHz



NECESSARY BANDWIDTH 25K 470MHz

Date: 20.APR.2020 14:04:13

Test equipment used: ETSTW-RE 055, ETSTW-RE072

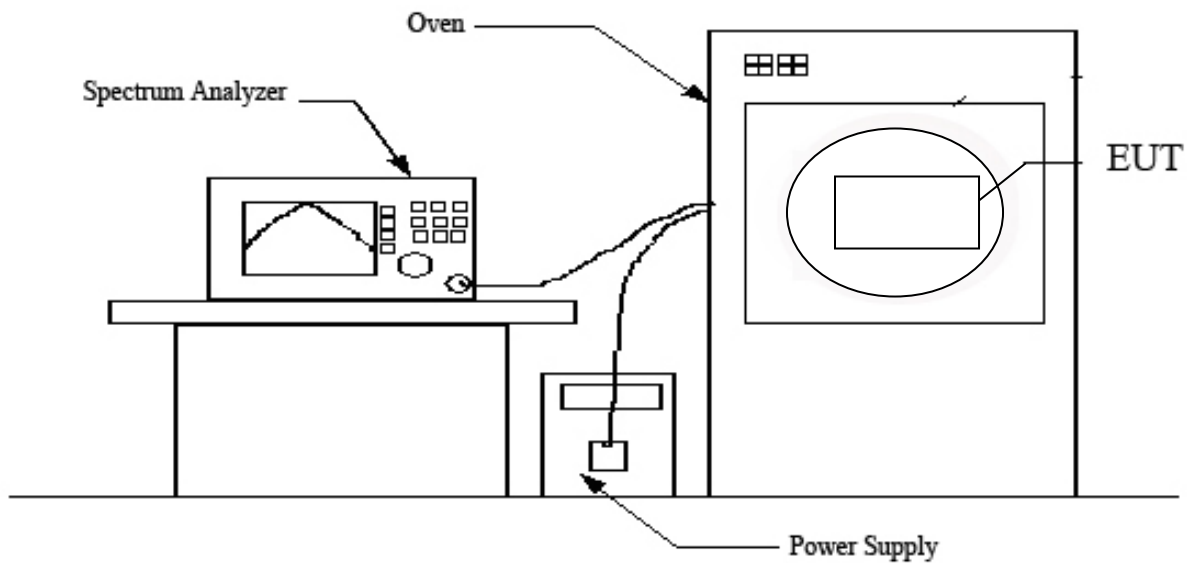
Registration number: W6M22003-19794-C-1
FCC ID: L9N-7085PUE5

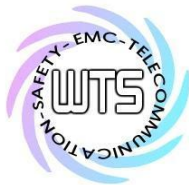
5. Frequency stability

5.1 Test Procedures

1. The transmitter output is connected to the spectrum analyzer through an attenuator.
2. Set RBW of spectrum analyzer to 1kHz and VBW to 1kHz.
3. Use peak detector mode, Max-hold and search the peak of trace 1.
4. According to the part 2.1055(d)(1), the supply voltage has to be changed from 85 to 115 percent of the nominal value.
5. According to the part 2.1055(a)(1), extreme temperature has to be changed from -20°C to 50°C .
6. Read the frequency of the carrier and calculate the deviation.

5.2 Test Setup





Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22003-19794-C-1
FCC ID: L9N-7085PUE5

5.3 Test Result

Test date: April 20, 2020 Temperature: 22.5 °C Humidity: 55.3% Tester: Sora

Nominal Frequency : 406MHz		Nominal Frequency : 418MHz		Nominal Frequency : 430MHz	
Voltage V.S Frequency Stability		Voltage V.S Frequency Stability		Voltage V.S Frequency Stability	
Voltage	Measurement Frequency	Voltage	Measurement Frequency	Voltage	Measurement Frequency
13.8 V	405.9997115	13.8 V	417.9993590	13.8 V	429.9997436
15.18 V	405.9997115	15.18 V	417.9993910	15.18 V	429.9997115
12.42 V	405.9997436	12.42 V	417.9993590	12.42 V	429.9997756
Max Deviation (MHz)	-0.0002885	Max Deviation (MHz)	-0.0006410	Max Deviation (MHz)	-0.0002885
Max Deviation (ppm)	-0.710492611	Max Deviation (ppm)	-1.533564593	Max Deviation (ppm)	-0.670837209
Limit (ppm)	2.5	Limit (ppm)	2.5	Limit (ppm)	2.5
Temperature V.S Frequency Stability		Temperature V.S Frequency Stability		Temperature V.S Frequency Stability	
Temperature	Measurement Frequency	Temperature	Measurement Frequency	Temperature	Measurement Frequency
-20	405.9994551	-20	417.9991667	-20	429.9995192
-10	405.9992308	-10	417.9991026	-10	429.9994872
0	405.9992628	0	417.9991346	0	429.9994872
10	405.9995513	10	417.9992949	10	429.9996154
20	405.9996795	20	417.9993590	20	429.9997115
30	405.9993910	30	417.9992628	30	429.9996474
40	405.9997115	40	417.9993910	40	429.9997115
50	405.9998397	50	417.9994551	50	429.9998397
60	406.0000000	60	417.9994872	60	429.9998397
Max Deviation (MHz)	-0.0007692	Max Deviation (MHz)	-0.0008974	Max Deviation (MHz)	-0.0005128
Max Deviation (ppm)	-1.894581281	Max Deviation (ppm)	-2.146889952	Max Deviation (ppm)	-1.19255814
Limit (ppm)	2.5	Limit (ppm)	2.5	Limit (ppm)	2.5



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22003-19794-C-1
FCC ID: L9N-7085PUE5

Nominal Frequency : 440MHz		Nominal Frequency : 455MHz		Nominal Frequency : 470MHz	
Voltage V.S Frequency Stability		Voltage V.S Frequency Stability		Voltage V.S Frequency Stability	
Voltage	Measurement Frequency	Voltage	Measurement Frequency	Voltage	Measurement Frequency
13.8 V	439.9999038	13.8 V	454.9999038	13.8 V	469.9999038
15.18 V	439.9998718	15.18 V	454.9999038	15.18 V	469.9999038
12.42 V	439.9998718	12.42 V	454.9999038	12.42 V	469.9999359
Max Deviation (MHz)	-0.0001282	Max Deviation (MHz)	-0.0000962	Max Deviation (MHz)	-0.0000962
Max Deviation (ppm)	-0.291386364	Max Deviation (ppm)	-0.211318681	Max Deviation (ppm)	-0.204574468
Limit (ppm)	2.5	Limit (ppm)	2.5	Limit (ppm)	2.5
Temperature V.S Frequency Stability		Temperature V.S Frequency Stability		Temperature V.S Frequency Stability	
Temperature	Measurement Frequency	Temperature	Measurement Frequency	Temperature	Measurement Frequency
-20	439.9997756	-20	454.9997756	-20	469.9993910
-10	439.9997756	-10	454.9997436	-10	469.9993589
0	439.9998077	0	454.9998718	0	469.9997436
10	439.9998077	10	454.9998718	10	469.9997436
20	439.9998397	20	454.9999038	20	469.9997756
30	439.9998718	30	454.9999038	30	469.9999038
40	439.9998718	40	454.9999038	40	469.9999038
50	439.9999359	50	454.9999038	50	470.0000000
60	439.9999359	60	454.9999038	60	470.0000000
Max Deviation (MHz)	-0.0002244	Max Deviation (MHz)	-0.0002564	Max Deviation (MHz)	-0.0006411
Max Deviation (ppm)	-0.51	Max Deviation (ppm)	-0.563516484	Max Deviation (ppm)	-1.364042553
Limit (ppm)	2.5	Limit (ppm)	2.5	Limit (ppm)	2.5

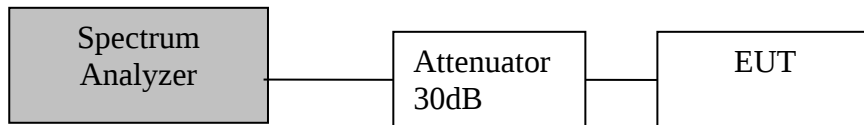
Test equipment used: ETSTW-RE 055

6. Transmitter Output Power

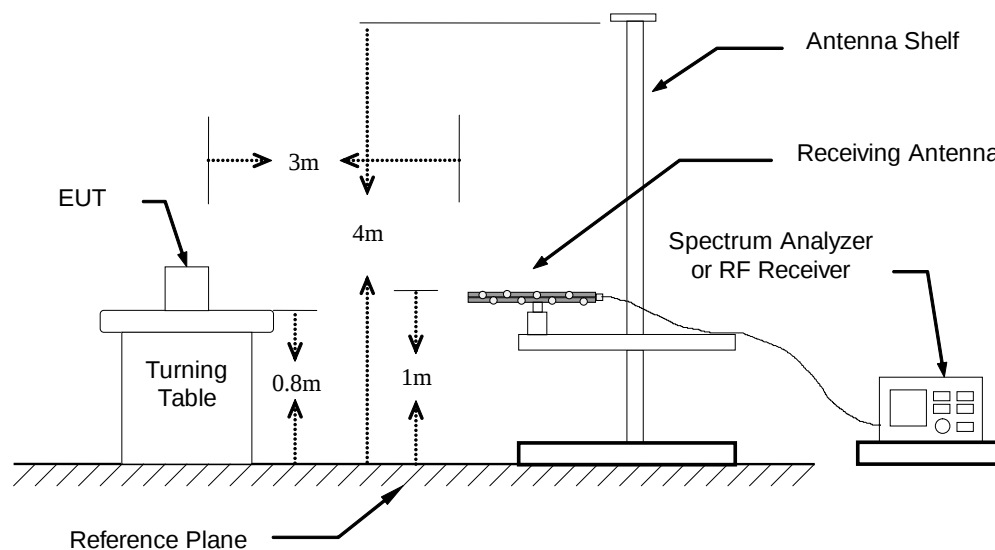
6.1 Test Procedures

1. The EUT was placed on the top of the turntable in semi-anechoic chamber.
2. The test shall be made in the transmitting mode. Antenna tower was scan (from 1 M to 4 M) and the turn table was rotated by 360 degrees to determine the position of the highest radiation.
3. The receiving Horn antenna was placed 0.5 meters far away from the turntable.
4. The receiving antenna was fixed on the same height with the EUT to find maximum suspected emissions. Recorded suspected value is indicated as Read Level (Raw).
5. Replace the EUT by standard antenna and feed the RF port by signal generator.
6. Adjust the frequency of the signal generator to the suspected emission and slightly rotate the turntable to locate the position with maximum reading.
7. Adjust the power level of the signal generator to reach the same reading with Read Level (Raw).
8. The level of the spurious emission is the power level of (7) plus the gain of the standard antenna in dBd and minus the loss of the cable used between the signal generator and the standard antenna.

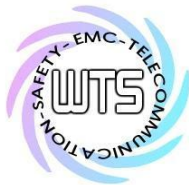
6.2 Test Setup



Setup for Conducted Power



Setup for Radiated Power



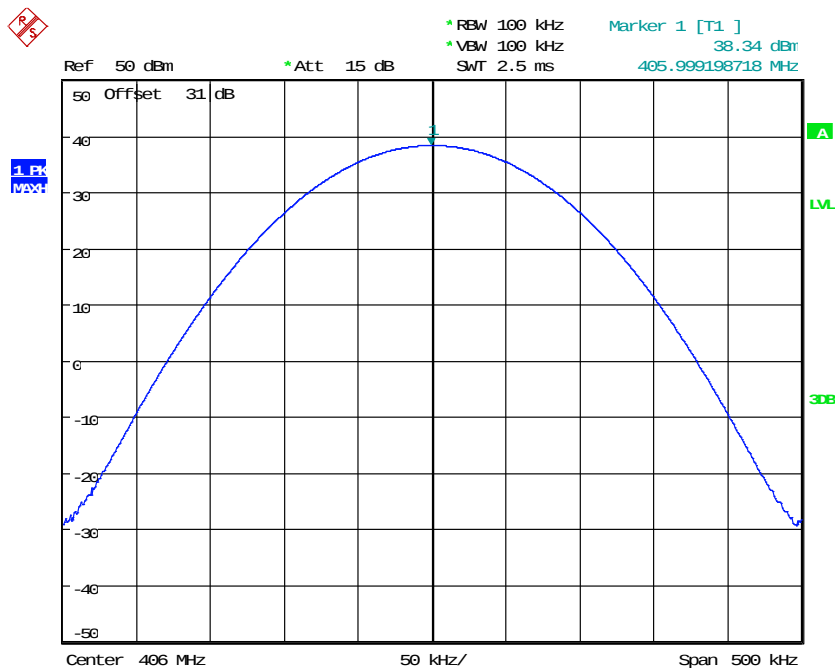
Registration number: W6M22003-19794-C-1
FCC ID: L9N-7085PUE5

6.3 Test Result

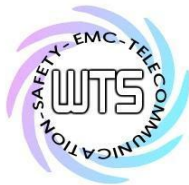
Test date: April 17, 2020 Temperature: 24.7°C Humidity: 53.2% Tester: Sora

6.3.1 Conducted Power

406 MHz



MAX OUTPUT POWER 406MHz
Date: 17.APR.2020 18:32:04

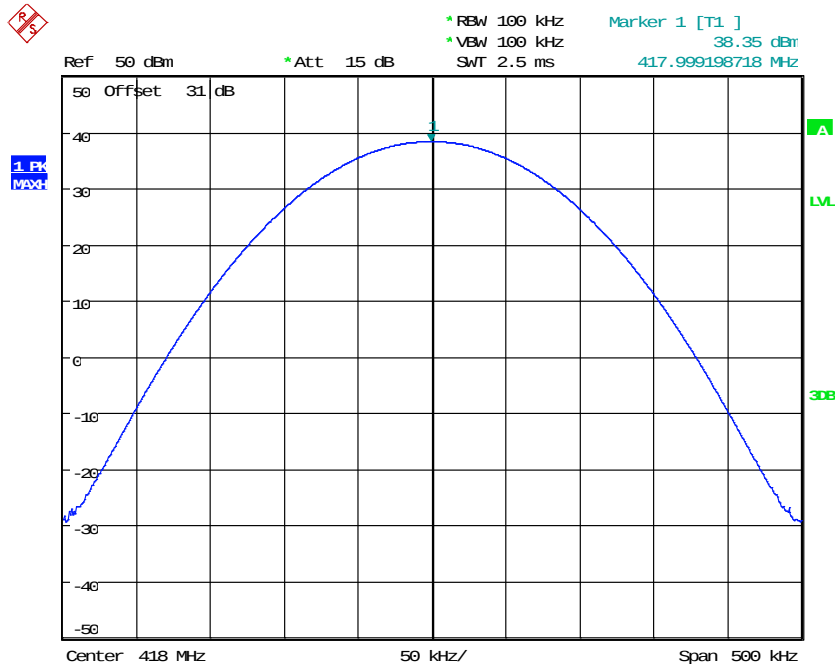


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22003-19794-C-1

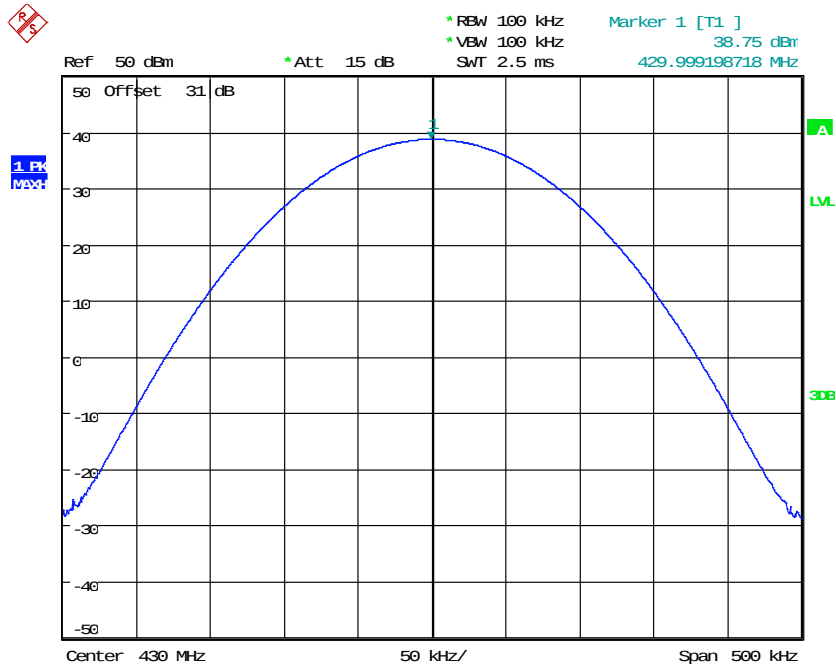
FCC ID: L9N-7085PUE5

418 MHz



MAX OUTPUT POWER 418MHz
Date: 17.APR.2020 18:36:50

430 MHz



MAX OUTPUT POWER 430MHz
Date: 17.APR.2020 18:33:27

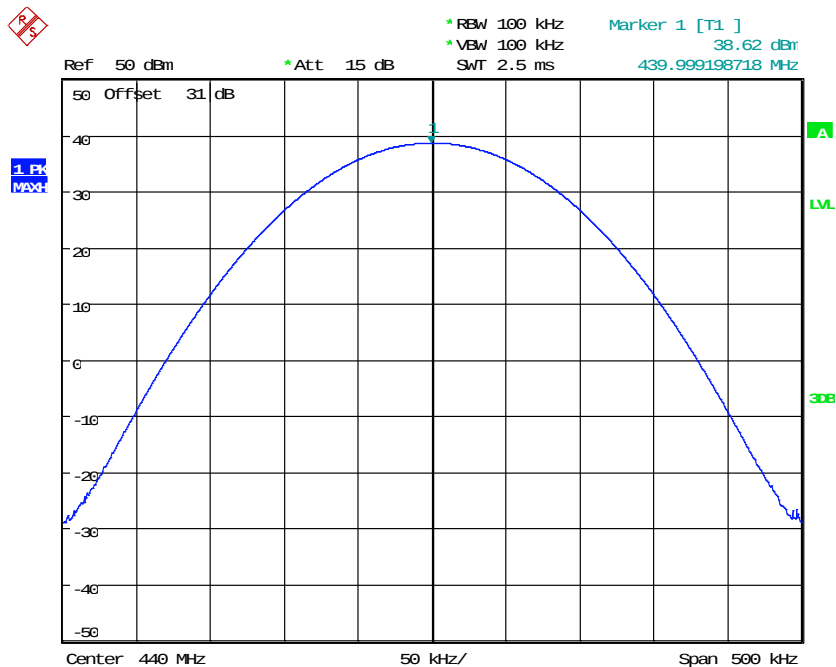


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22003-19794-C-1

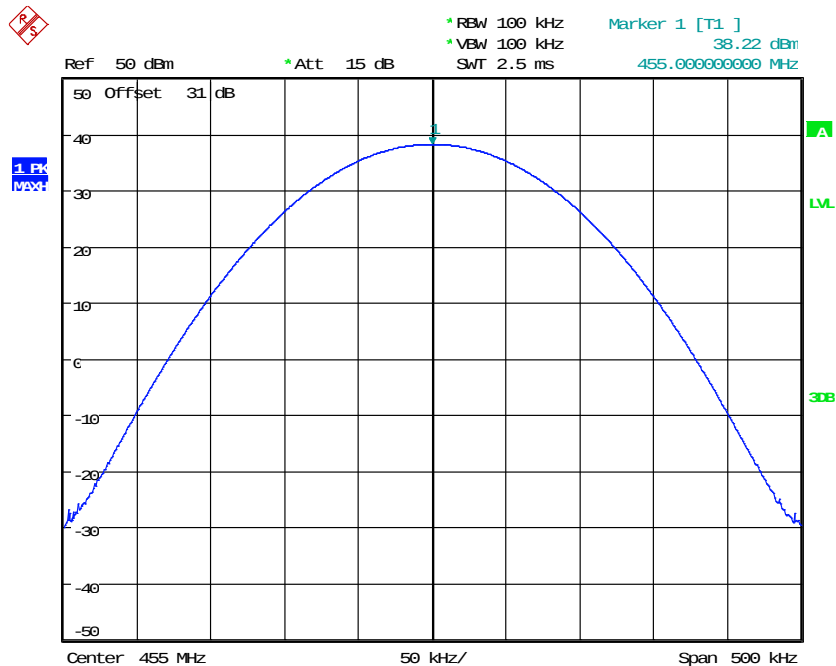
FCC ID: L9N-7085PUE5

440 MHz

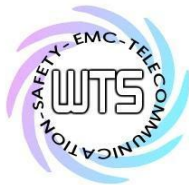


MAX OUTPUT POWER 440MHz
Date: 17.APR.2020 18:34:00

455 MHz



MAX OUTPUT POWER 455MHz
Date: 17.APR.2020 18:34:58

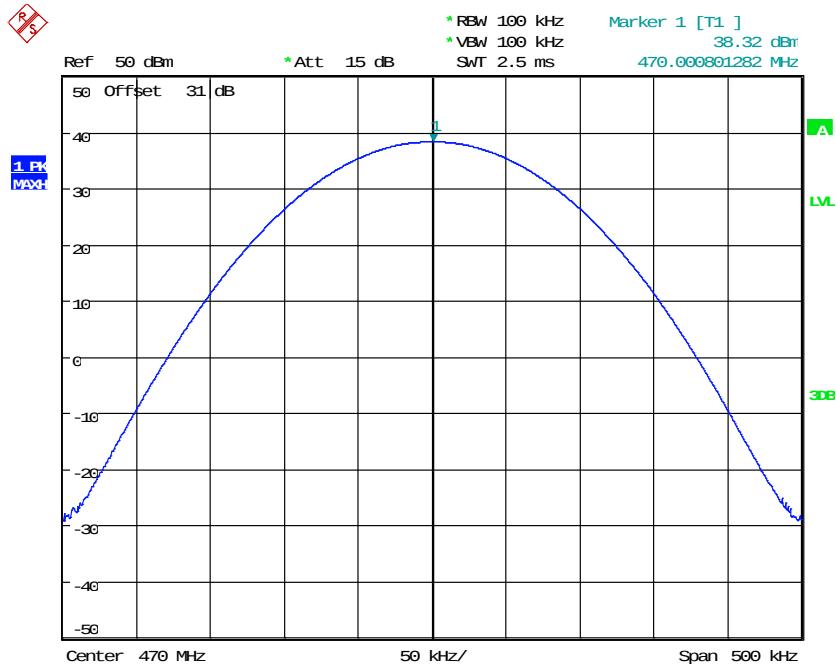


Worldwide Testing Services(Taiwan) Co., Ltd.

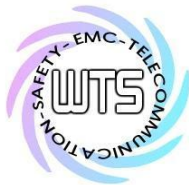
Registration number: W6M22003-19794-C-1

FCC ID: L9N-7085PUE5

470 MHz



MAX OUTPUT POWER 470MHz
Date: 17.APR.2020 18:35:28

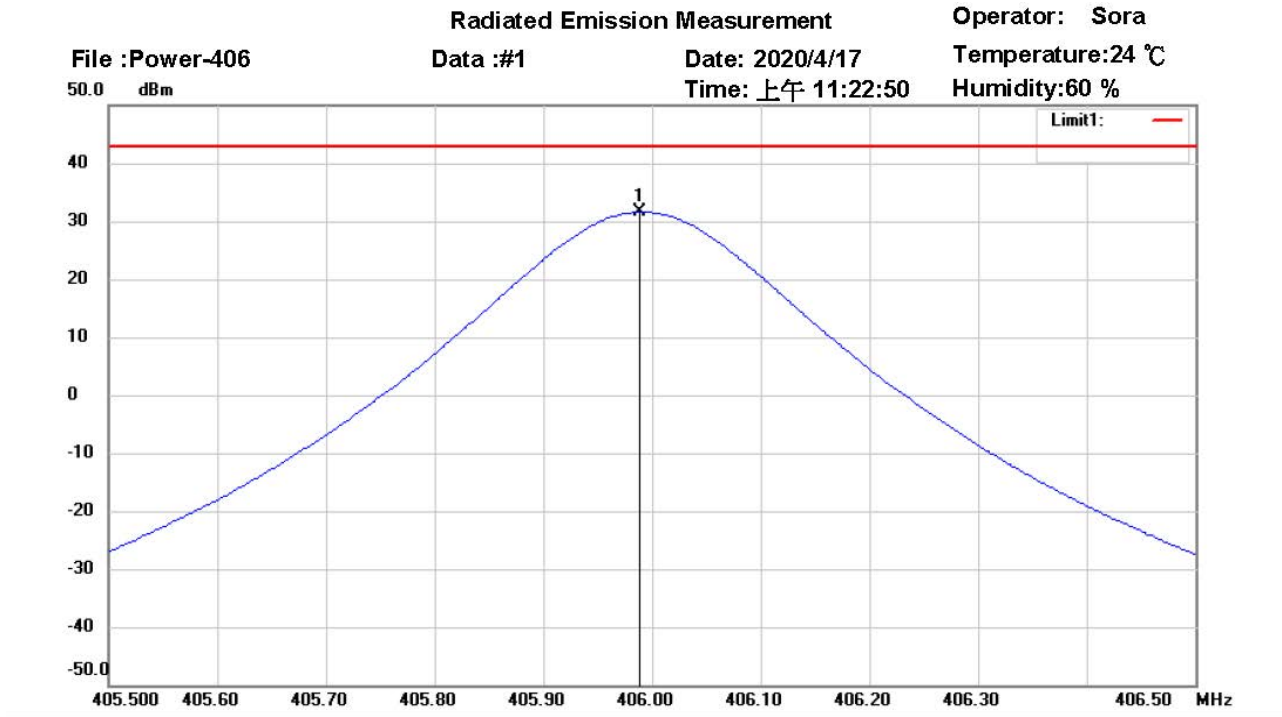


Registration number: W6M22003-19794-C-1

FCC ID: L9N-7085PUE5

6.3.2 Radiated Power

406 MHz



Site : Chamber

Condition : FCC_part 90 POWER

EUT : W6M22003-19794

M/N:

Test Mode : Tx 406MHz

Note :

Polarization: *Horizontal*

Power : 13.8 Vd.c.

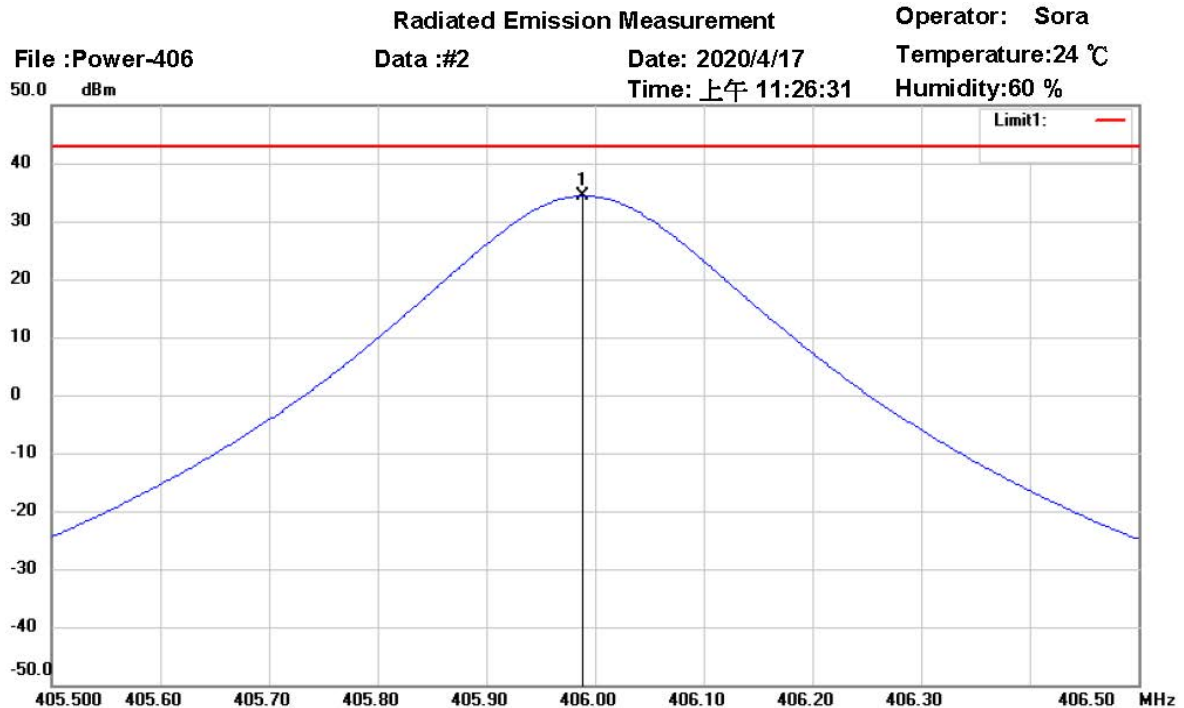
Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	405.9890	0.62	peak	30.98	31.60	43.00	150	245	-11.40	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22003-19794-C-1
FCC ID: L9N-7085PUE5



Site : Chamber

Condition : FCC_part 90 POWER

EUT : W6M22003-19794

M/N:

Test Mode : Tx 406MHz

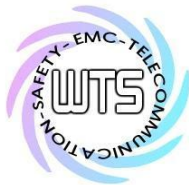
Note :

Polarization: **Vertical**

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	405.9890	7.94	peak	26.41	34.35	43.00	150	80	-8.65	

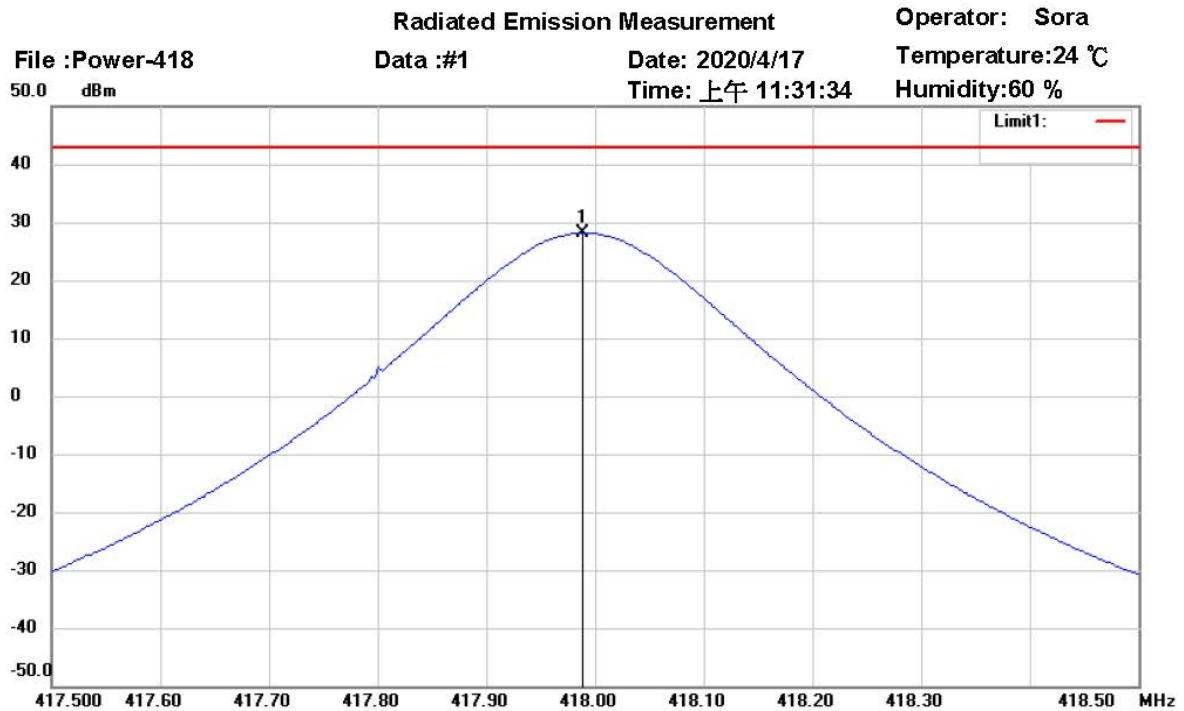


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22003-19794-C-1

FCC ID: L9N-7085PUE5

418 MHz



Site : Chamber

Condition : FCC_part 90 POWER

EUT : W6M22003-19794

M/N:

Test Mode : Tx 418MHz

Note :

Polarization: *Horizontal*

Power : 13.8 Vd.c.

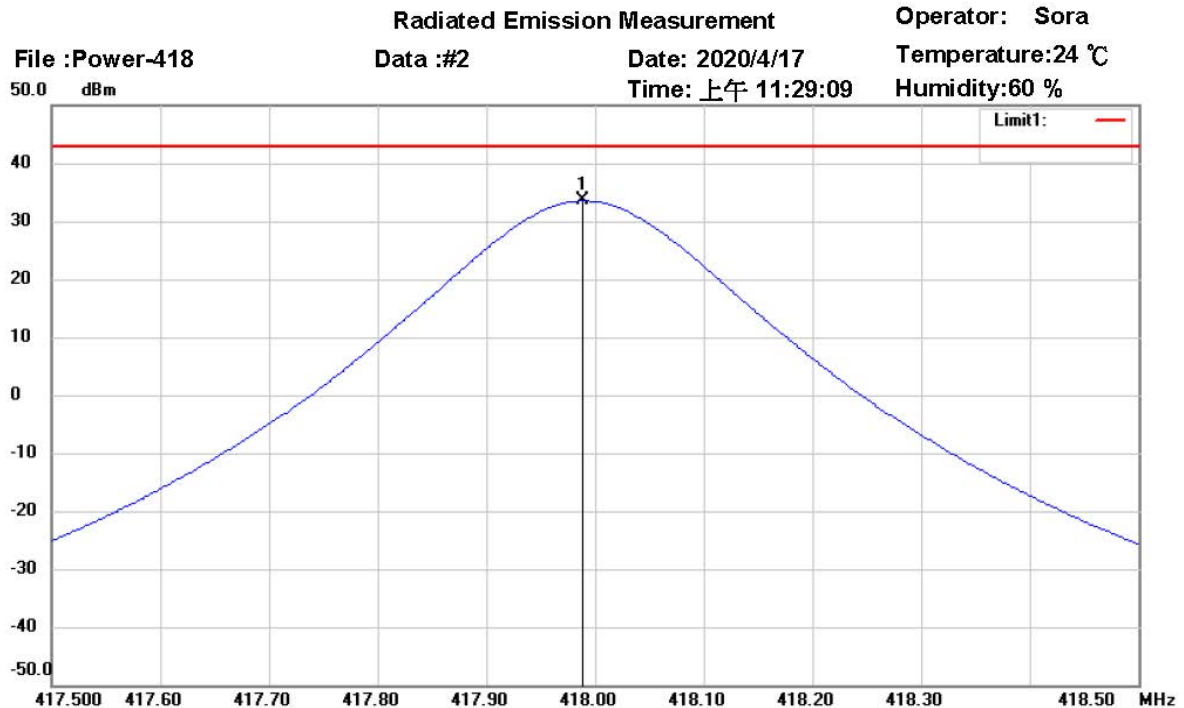
Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	417.9890	-2.82	peak	30.96	28.14	43.00	150	165	-14.86	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22003-19794-C-1
FCC ID: L9N-7085PUE5



Site : Chamber

Condition : FCC_part 90 POWER

EUT : W6M22003-19794

M/N:

Test Mode : Tx 418MHz

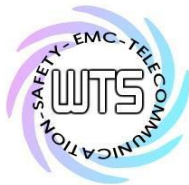
Note :

Polarization: *Vertical*

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	417.9890	6.56	peak	26.95	33.51	43.00	150	95	-9.49	

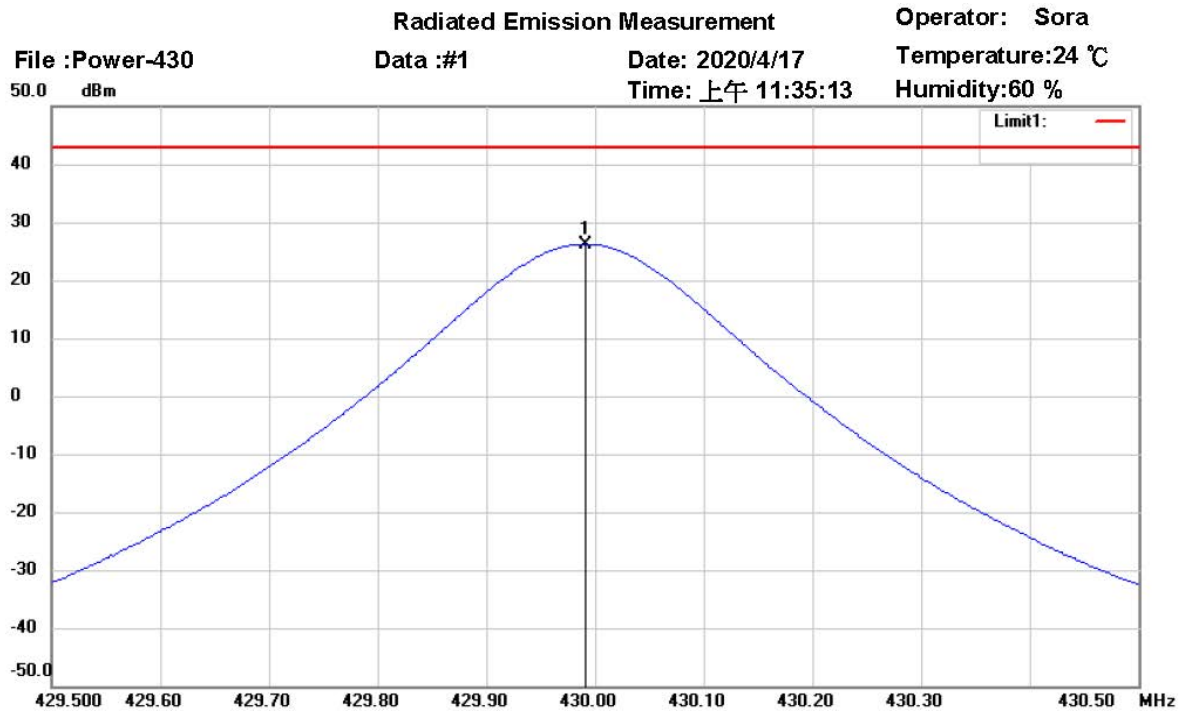


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22003-19794-C-1

FCC ID: L9N-7085PUE5

430 MHz



Site : Chamber

Condition : FCC_part 90 POWER

EUT : W6M22003-19794

M/N:

Test Mode : Tx 430MHz

Note :

Polarization: *Horizontal*

Power : 13.8 Vd.c.

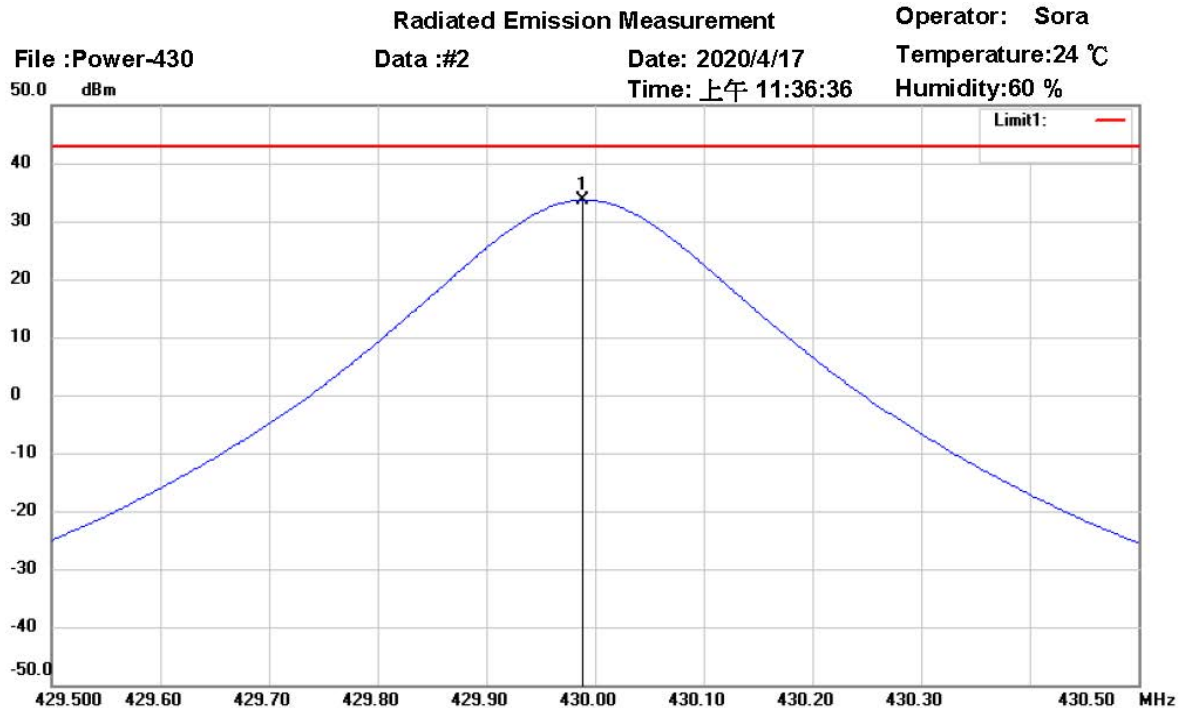
Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	429.9910	-4.70	peak	30.94	26.24	43.00	150	185	-16.76	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22003-19794-C-1
FCC ID: L9N-7085PUE5



Site : Chamber

Condition : FCC_part 90 POWER

EUT : W6M22003-19794

M/N:

Test Mode : Tx 430MHz

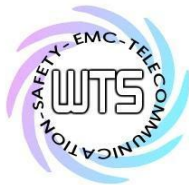
Note :

Polarization: **Vertical**

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	429.9890	6.18	peak	27.48	33.66	43.00	150	110	-9.34	

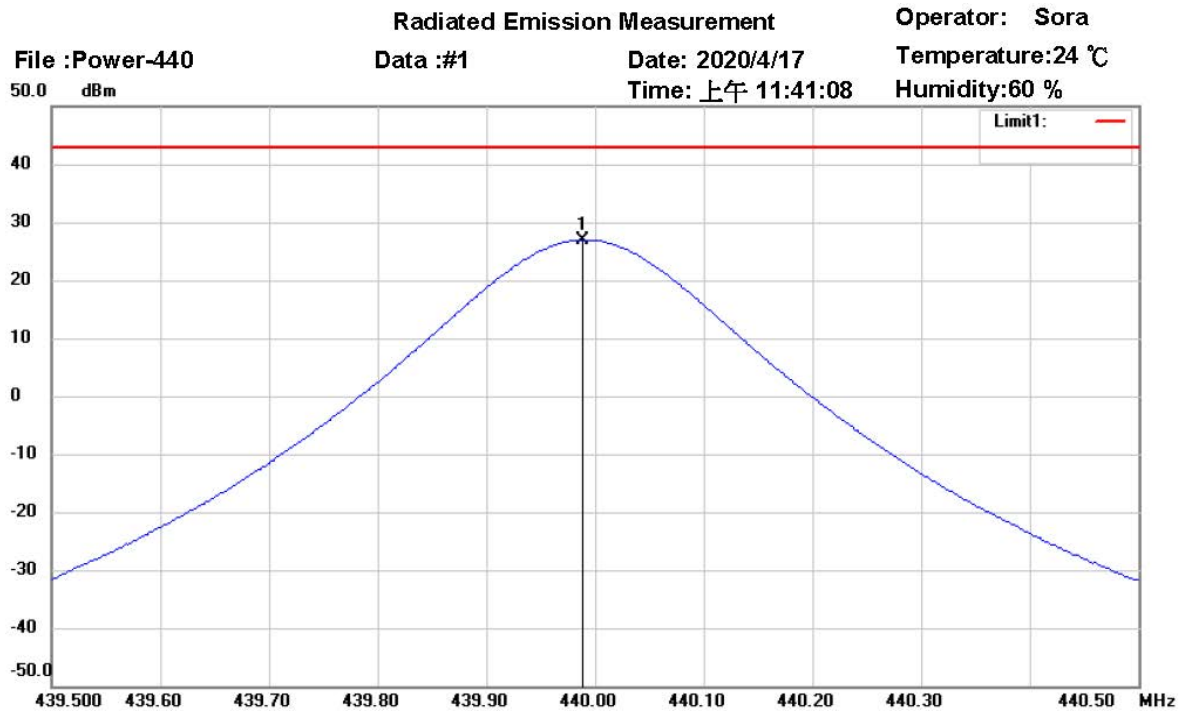


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22003-19794-C-1

FCC ID: L9N-7085PUE5

440 MHz



Site : Chamber

Condition : FCC_part 90 POWER

EUT : W6M22003-19794

M/N:

Test Mode : Tx 440MHz

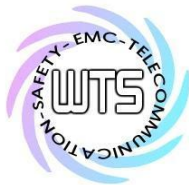
Note :

Polarization: *Horizontal*

Power : 13.8 Vd.c.

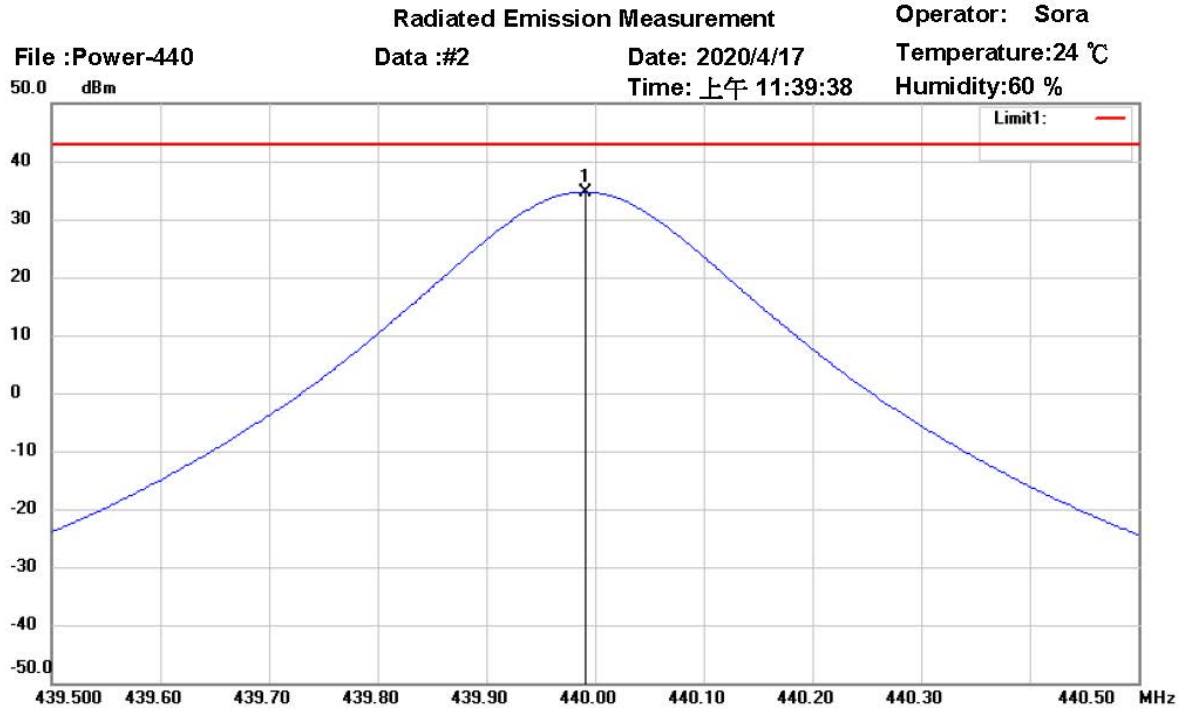
Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	439.9890	-3.93	peak	30.93	27.00	43.00	150	145	-16.00	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22003-19794-C-1
FCC ID: L9N-7085PUE5



Site : Chamber

Condition : FCC_part 90 POWER

EUT : W6M22003-19794

M/N:

Test Mode : Tx 440MHz

Note :

Polarization: *Vertical*

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	439.9910	6.81	peak	27.93	34.74	43.00	150	90	-8.26	

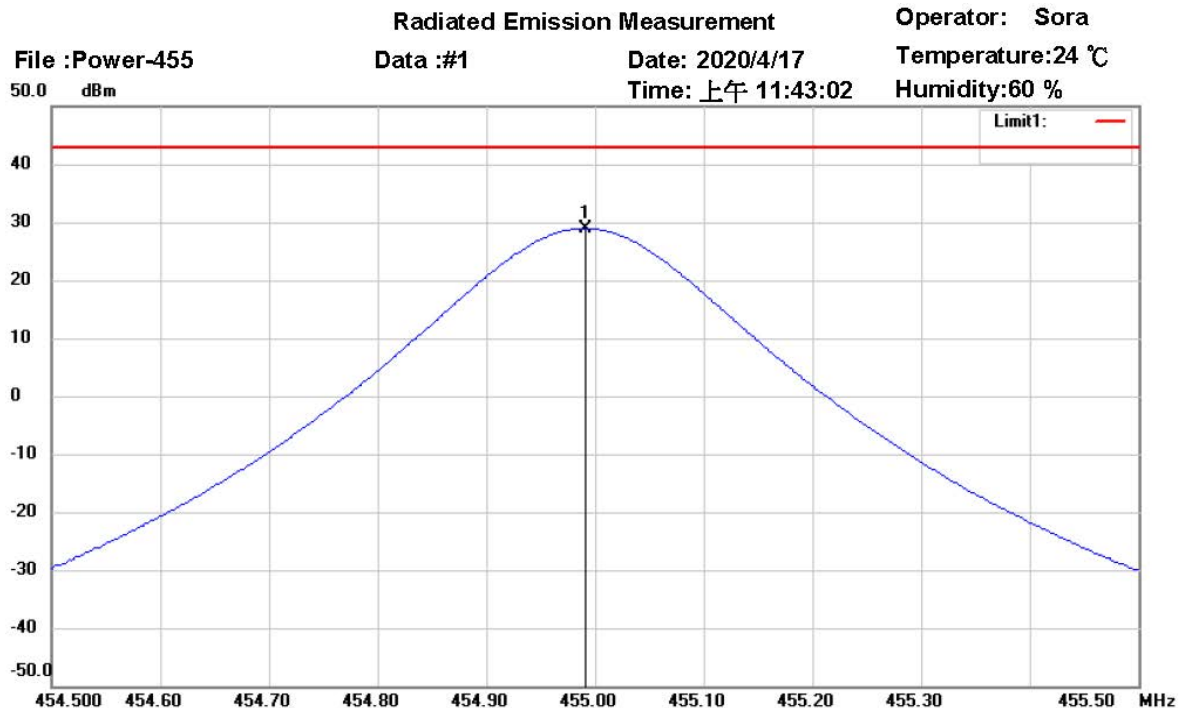


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22003-19794-C-1

FCC ID: L9N-7085PUE5

455 MHz



Site : Chamber

Condition : FCC_part 90 POWER

EUT : W6M22003-19794

M/N:

Test Mode : Tx 455MHz

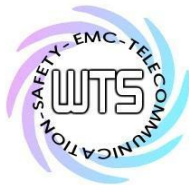
Note :

Polarization: *Horizontal*

Power : 13.8 Vd.c.

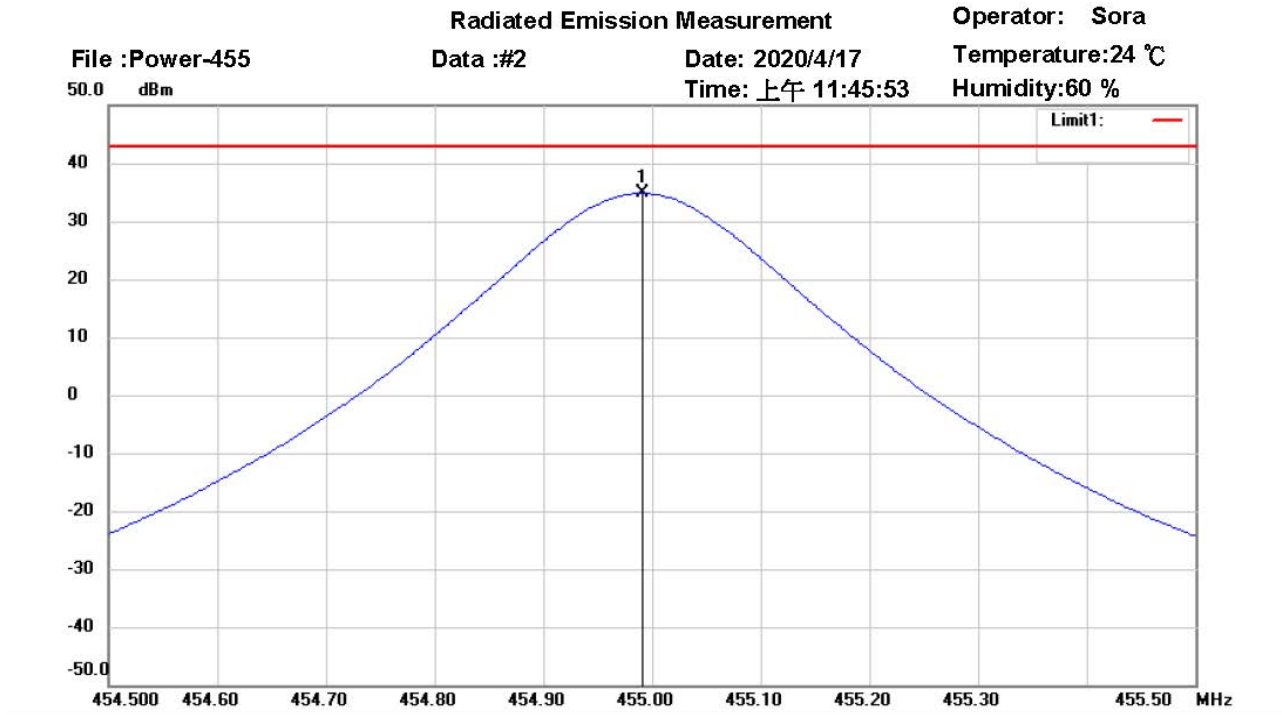
Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	454.9910	-1.94	peak	30.90	28.96	43.00	150	180	-14.04	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22003-19794-C-1
FCC ID: L9N-7085PUE5



Site : Chamber
Condition : FCC_part 90 POWER
EUT : W6M22003-19794
M/N:
Test Mode : Tx 455MHz
Note :

Polarization: *Vertical*
Power : 13.8 Vd.c.
Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	454.9910	6.21	peak	28.60	34.81	43.00	150	105	-8.19	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22003-19794-C-1

FCC ID: L9N-7085PUE5

470 MHz

Radiated Emission Measurement

Operator: Sora

File :Power-470

Data :#1

Date: 2020/4/17

Temperature:24 °C

Time: 下午 12:00:13

Humidity:60 %

50.0 dBm



Site : Chamber

Condition : FCC_part 90 POWER

EUT : W6M22003-19794

M/N:

Test Mode : Tx 470MHz

Note :

Polarization: *Horizontal*

Power : 13.8 Vd.c.

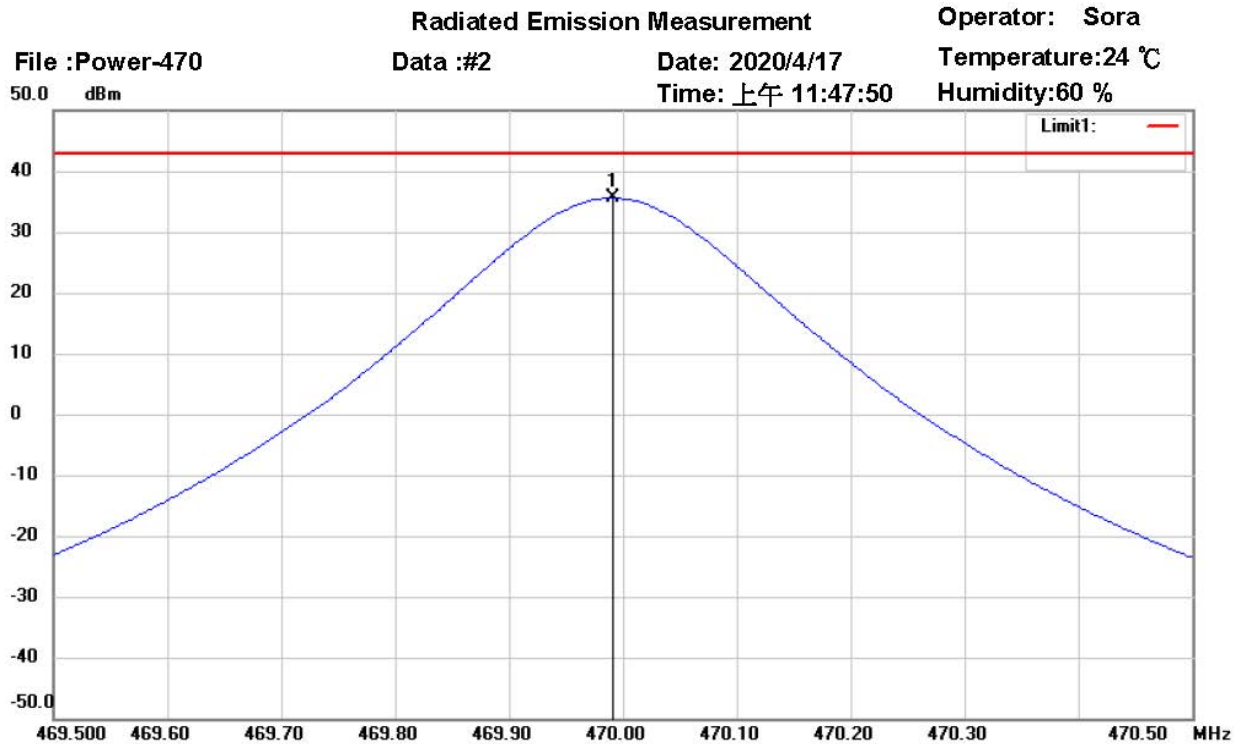
Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	469.9890	-2.23	peak	30.88	28.65	43.00	150	165	-14.35	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22003-19794-C-1
FCC ID: L9N-7085PUE5



Site : Chamber

Condition : FCC_part 90 POWER

EUT : W6M22003-19794

M/N:

Test Mode : Tx 470MHz

Note :

Polarization: **Vertical**

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	469.9910	6.30	peak	29.28	35.58	43.00	150	290	-7.42	

Test equipment used: ETSTW-RE 003, ETSTW-RE 042, ETSTW-RE 055, ETSTW-RE 072

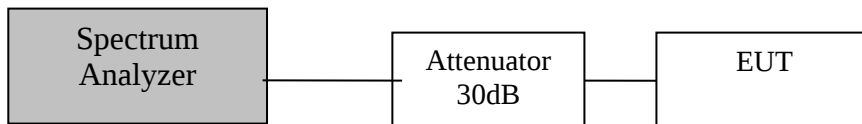
Registration number: W6M22003-19794-C-1
FCC ID: L9N-7085PUE5

7. Emission masks

7.1 Test Procedures

1. The transmitter output is connected to the spectrum analyzer through an attenuator.
2. Set RBW of spectrum analyzer to 100Hz and VBW to 1 kHz.
3. Mark the frequency with maximum peak power as the center of the display of the spectrum
4. Set the span to 50 kHz and the sweep time to Auto.
5. Record the power spectral and compare to the Mask.

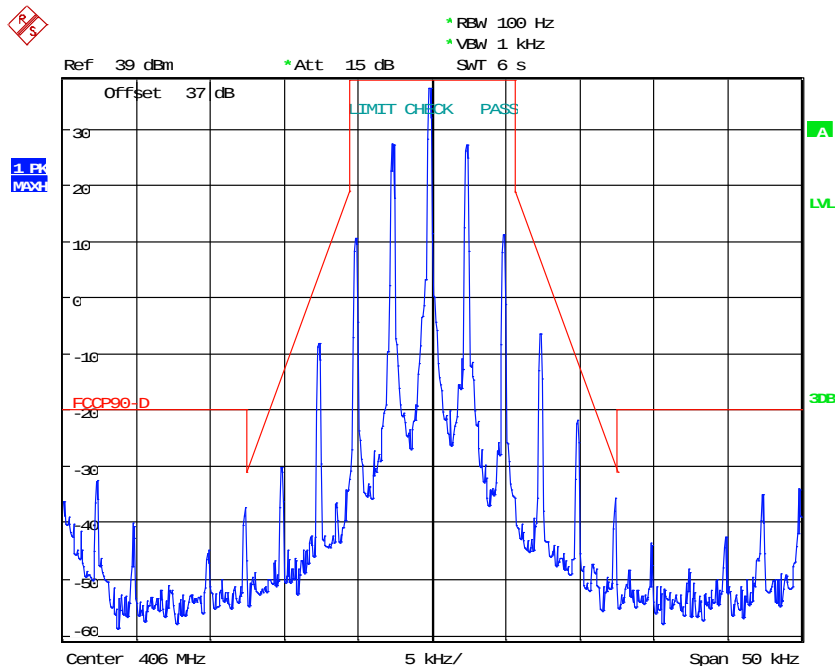
7.2 Test Setup



7.3 Test Result

Test date: April 17, 2020 Temperature: 24.7°C Humidity: 53.2% Tester: Sora

12.5 kHz
406 MHz



EMISSION MASK 12.5K 406MHz
Date: 20.APR.2020 14:45:18

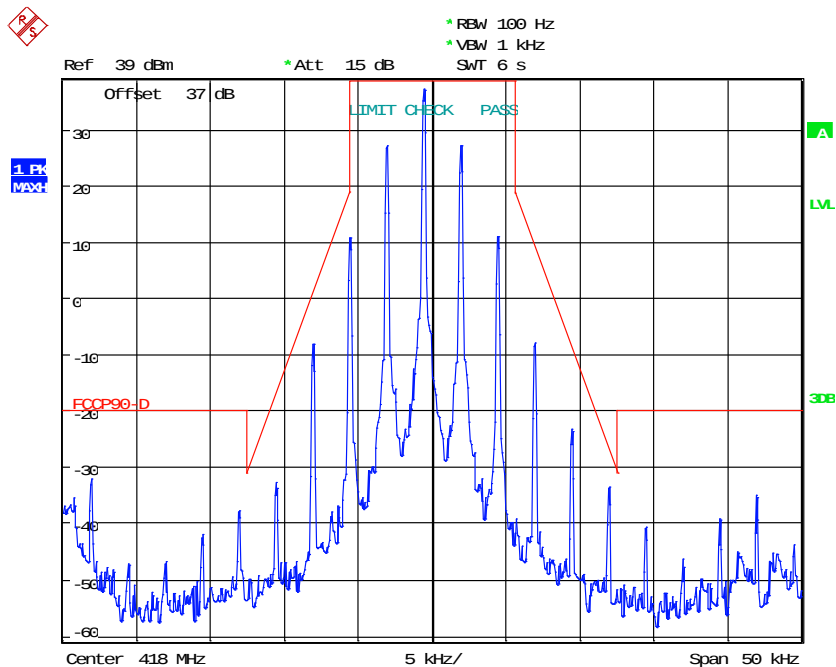


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22003-19794-C-1

FCC ID: L9N-7085PUE5

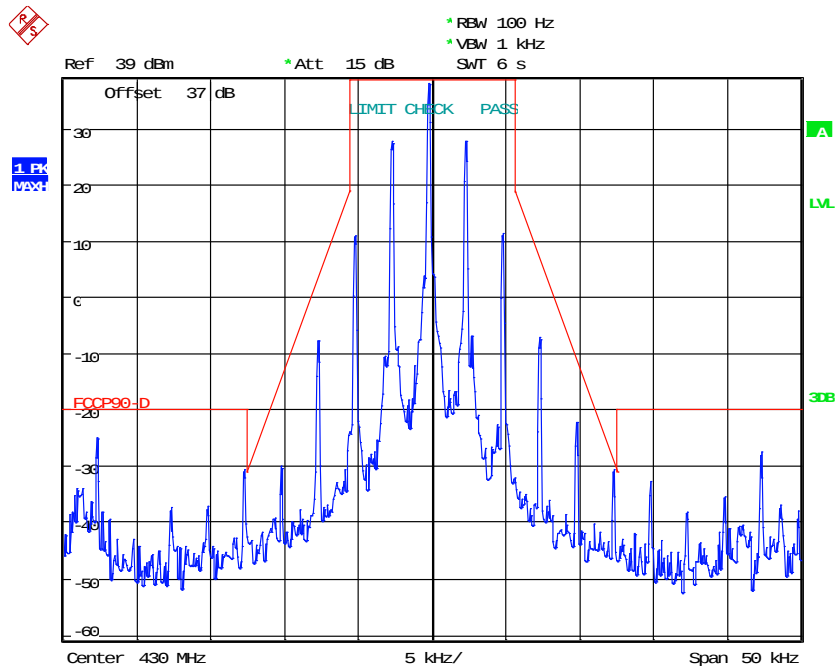
418 MHz



EMISSION MASK 12.5K 418MHz

Date: 20.APR.2020 14:44:25

430 MHz



EMISSION MASK 12.5K 430MHz

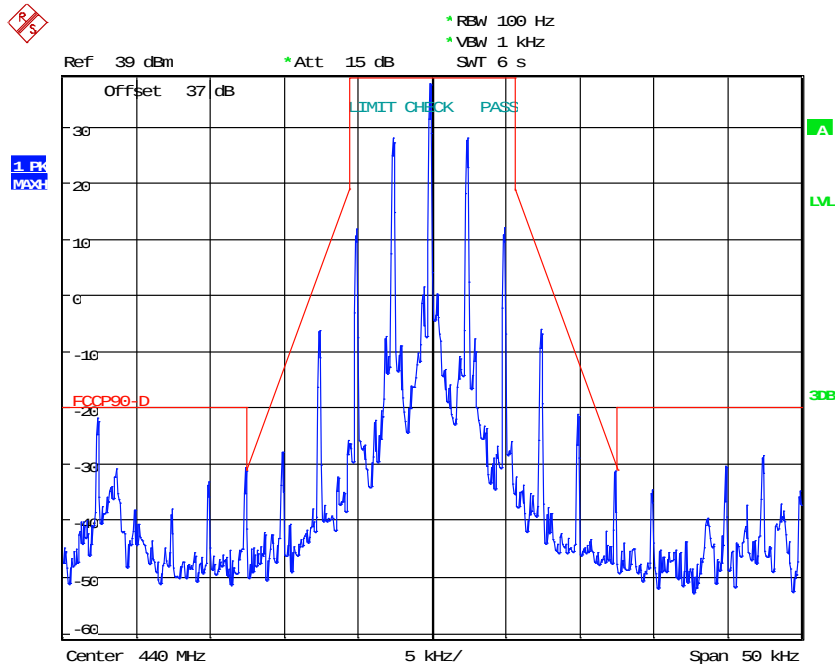
Date: 20.APR.2020 14:43:35



Registration number: W6M22003-19794-C-1

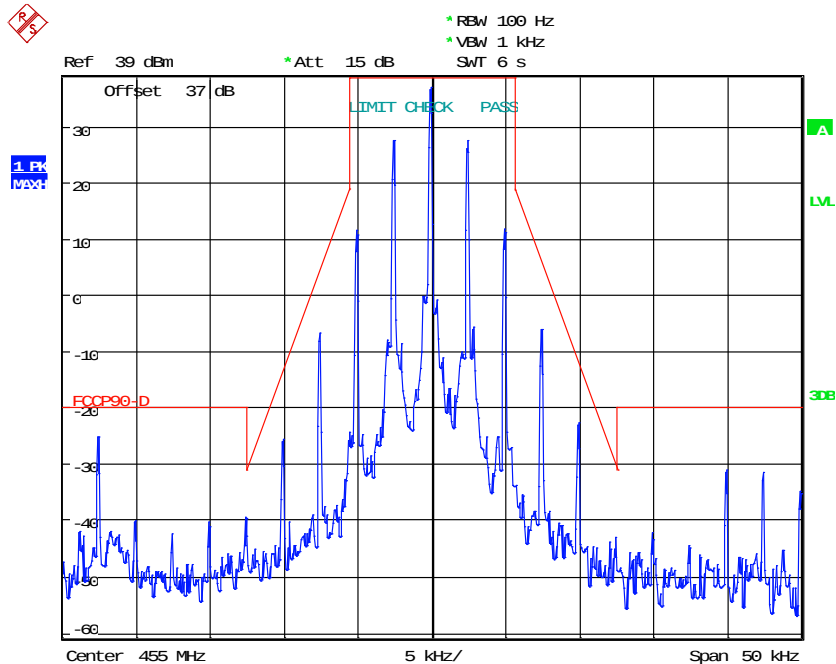
FCC ID: L9N-7085PUE5

440 MHz

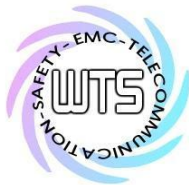


EMISSION MASK 12.5K 440MHz
Date: 20.APR.2020 14:42:52

455 MHz



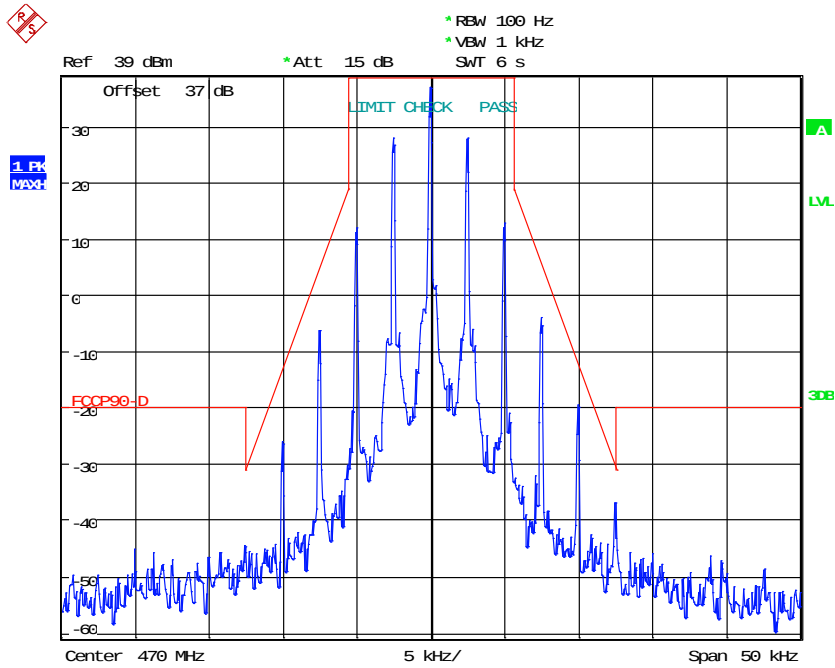
EMISSION MASK 12.5K 455MHz
Date: 20.APR.2020 14:42:15



Registration number: W6M22003-19794-C-1

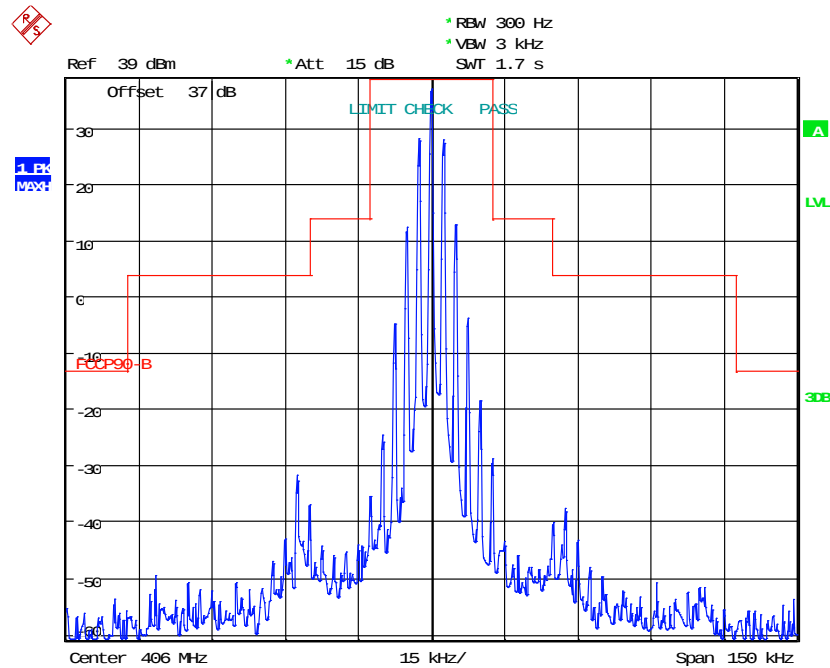
FCC ID: L9N-7085PUE5

470 MHz



EMISSION MASK 12.5K 470MHz
Date: 20.APR.2020 14:41:38

25 kHz
406 MHz



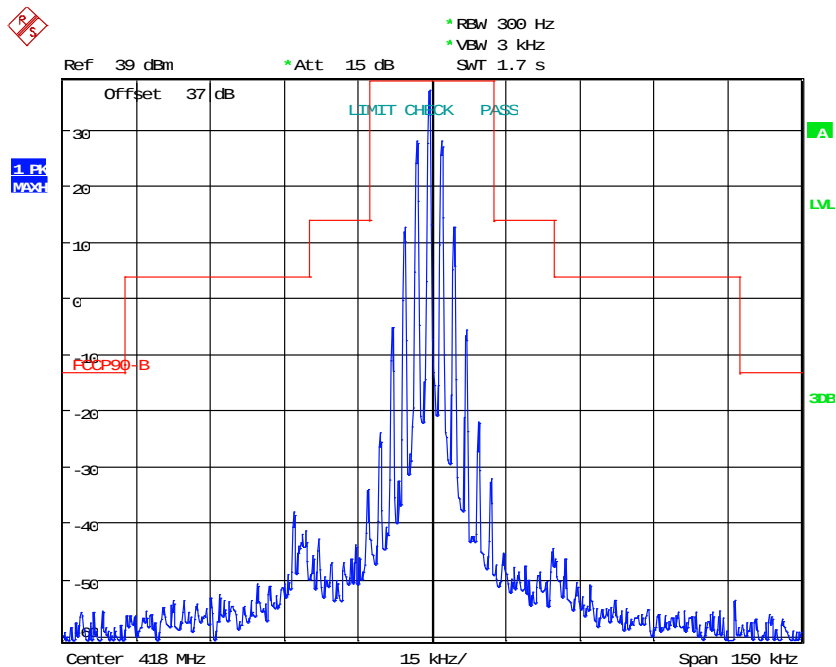
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Date: 20.APR.2020 14:32:02



Registration number: W6M22003-19794-C-1

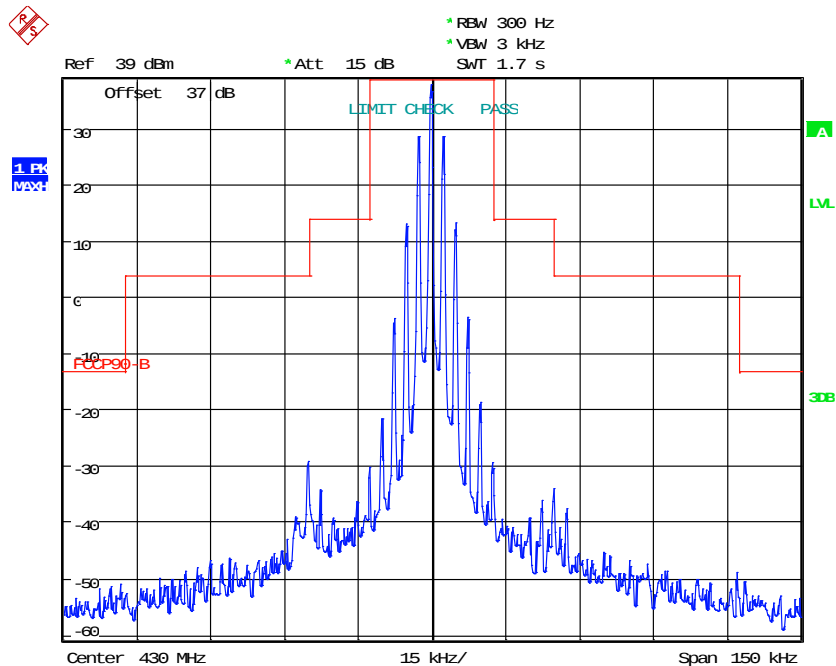
FCC ID: L9N-7085PUE5

418 MHz



EMISSION MASK 25K 418MHz
Date: 20.APR.2020 14:32:46

430 MHz



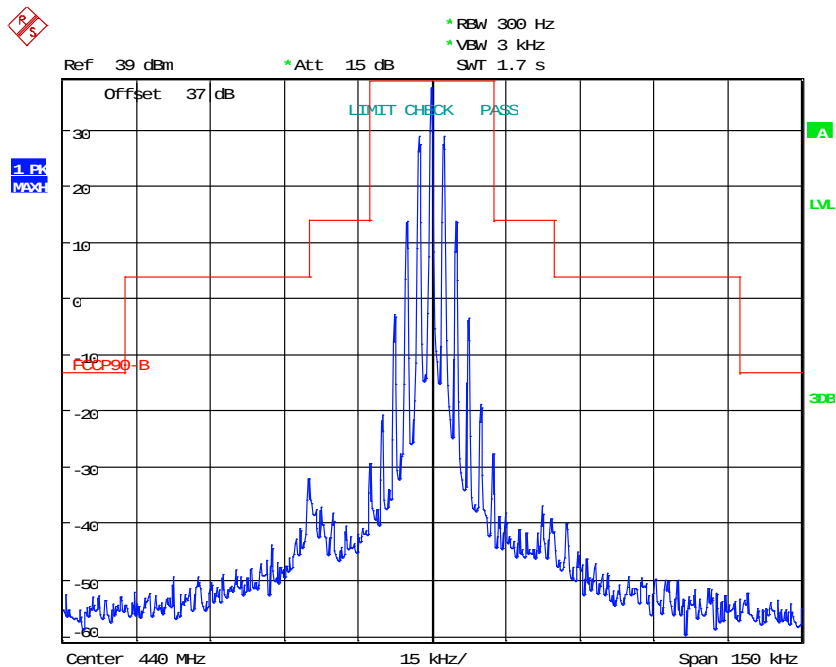
EMISSION MASK 25K 430MHz
Date: 20.APR.2020 14:33:27



Registration number: W6M22003-19794-C-1

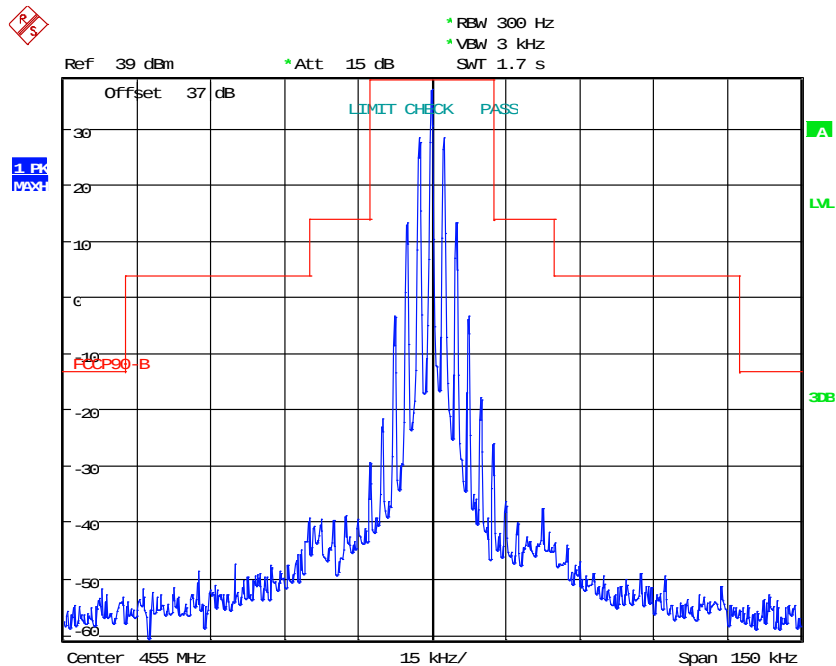
FCC ID: L9N-7085PUE5

440 MHz

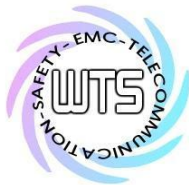


EMISSION MASK 25K 440MHz
Date: 20.APR.2020 14:34:03

455 MHz



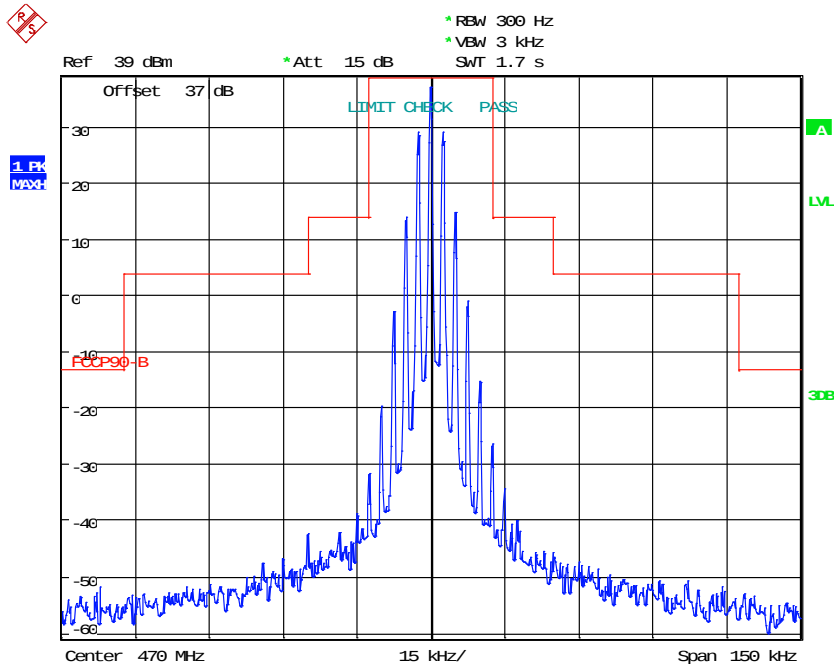
EMISSION MASK 25K 455MHz
Date: 20.APR.2020 14:34:39



Registration number: W6M22003-19794-C-1

FCC ID: L9N-7085PUE5

470 MHz



EMISSION MASK 25K 470MHz
Date: 20.APR.2020 14:35:18

Limit according to FCC § 90.210: 12.5 kHz: Emission Mask D / 25 kHz: Emission Mask C.

Test equipment used: ETSTW-RE 055, ETSTW-RE072

8. Transmitter Spurious Radiated Emission

8.1 Test Procedures

The EUT was positioned on a non-conductive turntable, 0.8m above the ground plane.

The radiated emission at the fundamental frequency was measured at 3 m distance with a test antenna and spectrum analyzer.

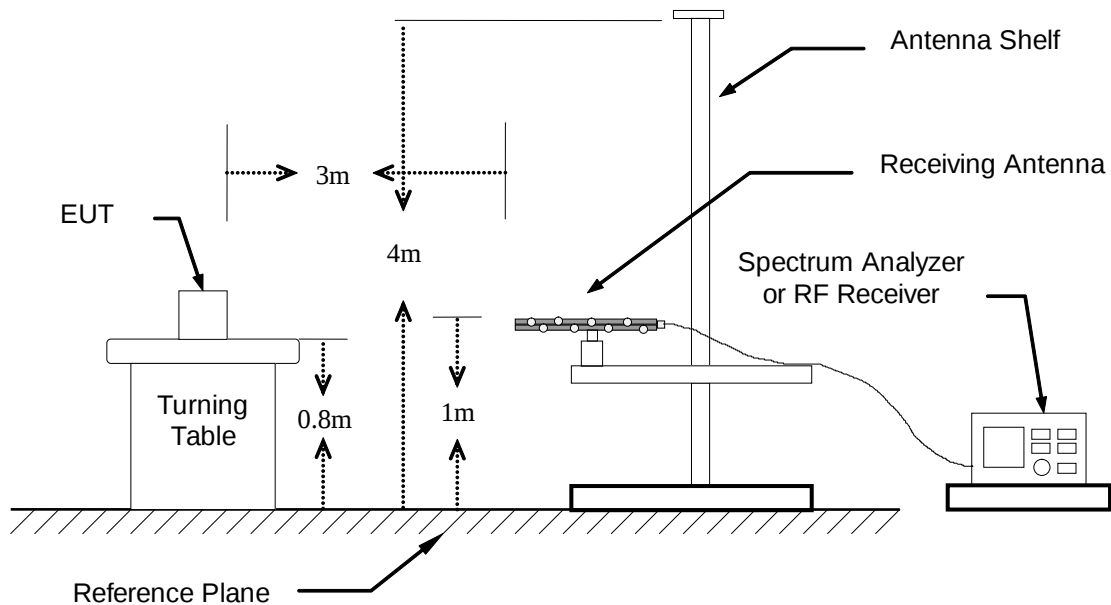
Worst case emission was recorded with the rotation of the turntable and the raising and lowering of the test antenna.

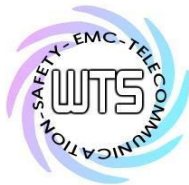
ERP was measured using a substitution method. The EUT was replaced by reference antenna connected to a signal generator.

The test of spurious radiated emission has been carried out with the validated test software. The measurements below 1GHz were performed with a measurement bandwidth of 100 kHz, above 1GHz with a bandwidth of 1MHz.

Spurious emission limits near the carrier are defined by a emission mask.

8.2 Test Setup





Registration number: W6M22003-19794-C-1
FCC ID: L9N-7085PUE5

8.3 Test Result

Model: 52-7085UE5 Date: -- --
Mode: -- Temperature: -- °C Engineer: --
Polarization: Horizontal Humidity: -- %

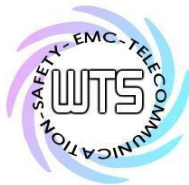
Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--

- 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. See attached diagrams in appendix.

Test equipment used: ETSTW-RE 003, ETSTW-RE 042, ETSTW-RE 043, ETSTW-RE 044, ETSTW-RE 072



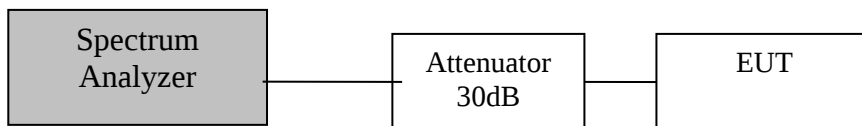
Registration number: W6M22003-19794-C-1
FCC ID: L9N-7085PUE5

9. Transmitter Spurious Conducted Emission

9.1 Test Procedures

1. The transmitter output is connected to the spectrum analyzer through an attenuator.
2. Adjust the spectrum analyzer for the following settings:
 - Resolution Bandwidth = 10 kHz for spurious emissions below 1 GHz and 1 MHz for spurious emissions above 1GHz.
 - Video Bandwidth = 30 kHz for spurious emissions below 1 GHz, and 3 MHz for spurious emissions above 1 GHz.
 - Sweep Speed slow enough to maintain measurement calibration. Detector Mode = Positive Peak.
3. Limits= $P \text{ (dBm)} + 10\log(P(W)) = -13\text{dBm}$

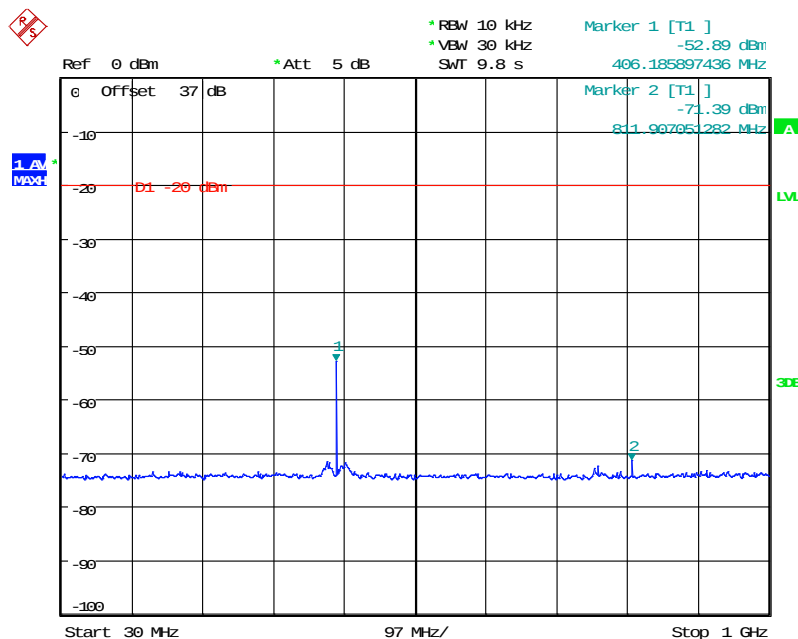
9.2 Test Setup



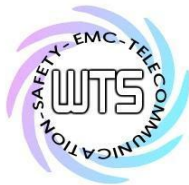
9.3 Test Result

Test date: April 20, 2020 Temperature: 22.5 °C Humidity: 55.3% Tester: Sora

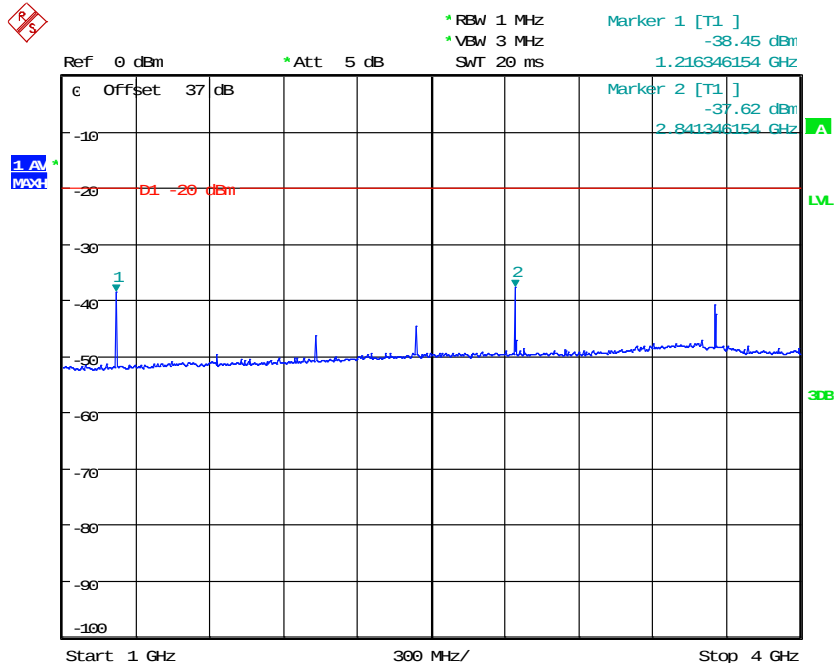
12.5 kHz
406 MHz



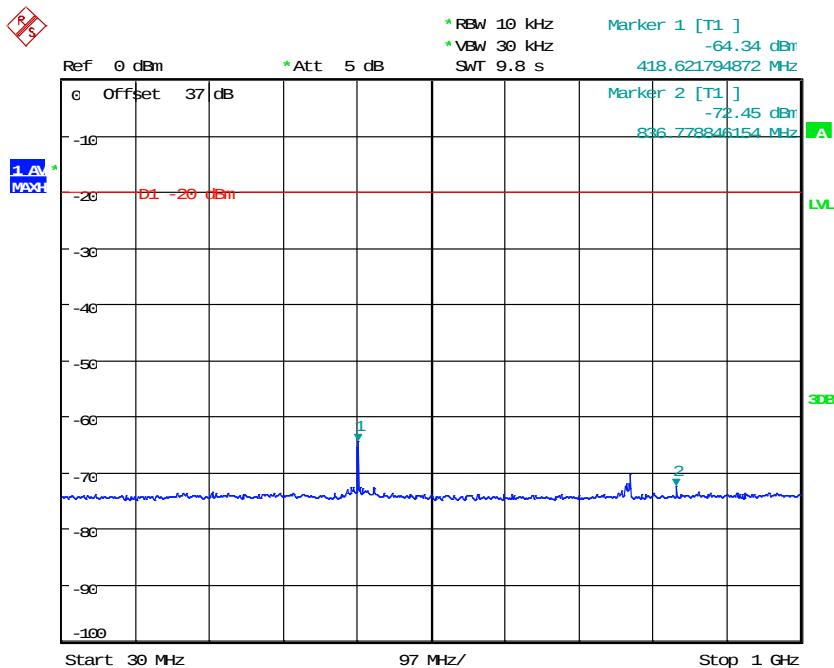
CONDUCTED SPURIOUS EMISSION 12.5K 406MHZ
Date: 20.APR.2020 16:14:47

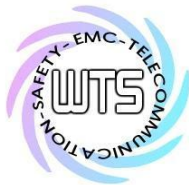


Registration number: W6M22003-19794-C-1
FCC ID: L9N-7085PUE5

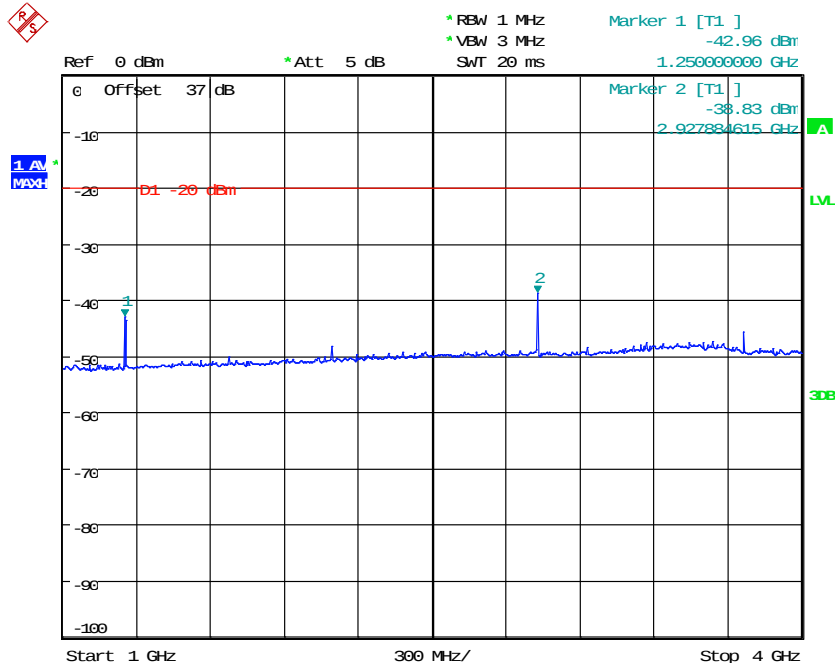


418 MHz



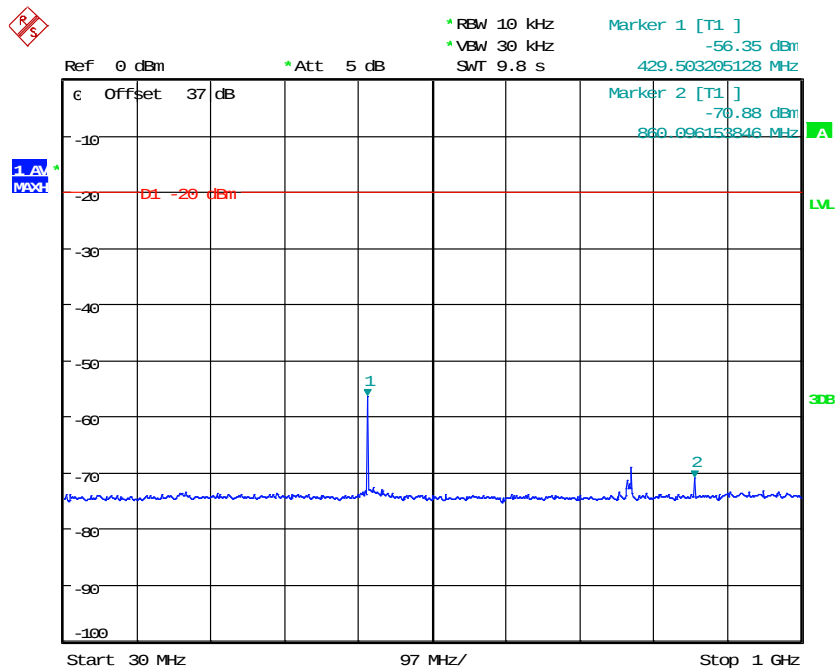


Registration number: W6M22003-19794-C-1
FCC ID: L9N-7085PUE5



CONDUCTED SPURIOUS EMISSION 12.5K 418MHz
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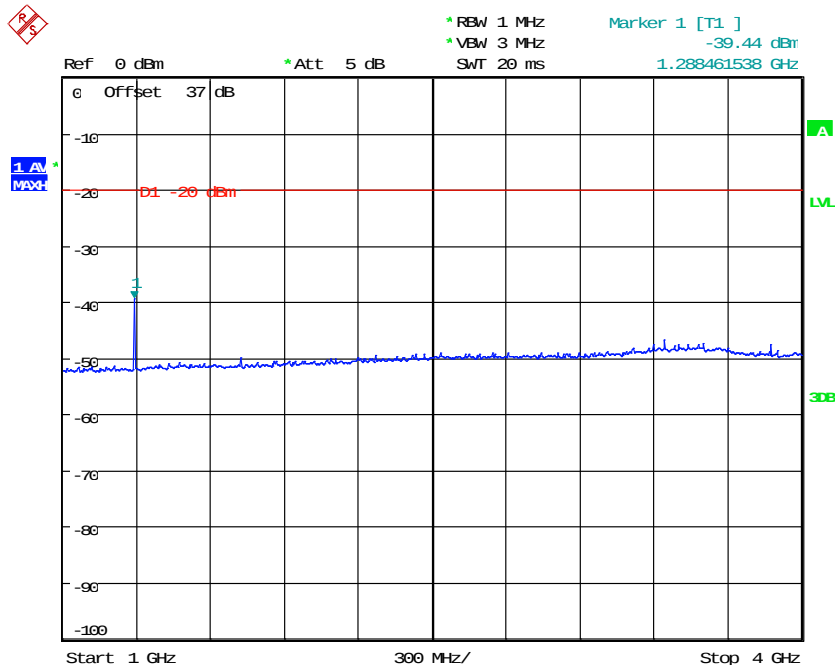
430 MHz



CONDUCTED SPURIOUS EMISSION 12.5K 430MHz
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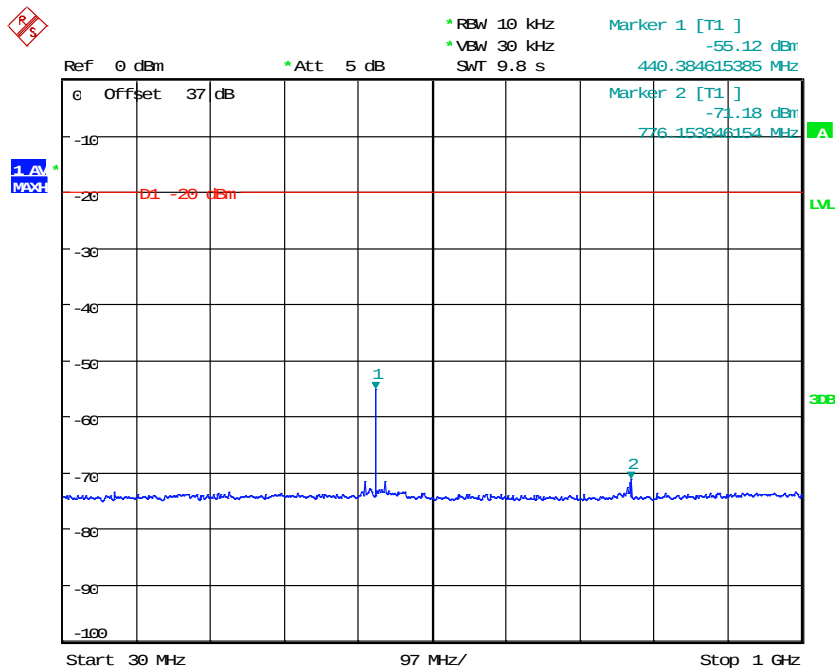


Registration number: W6M22003-19794-C-1
FCC ID: L9N-7085PUE5

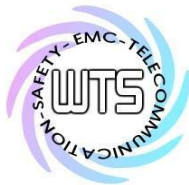


CONDUCTED SPURIOUS EMISSION 12.5K 430MHz
Date: 20.APR.2020 15:59:57

440 MHz

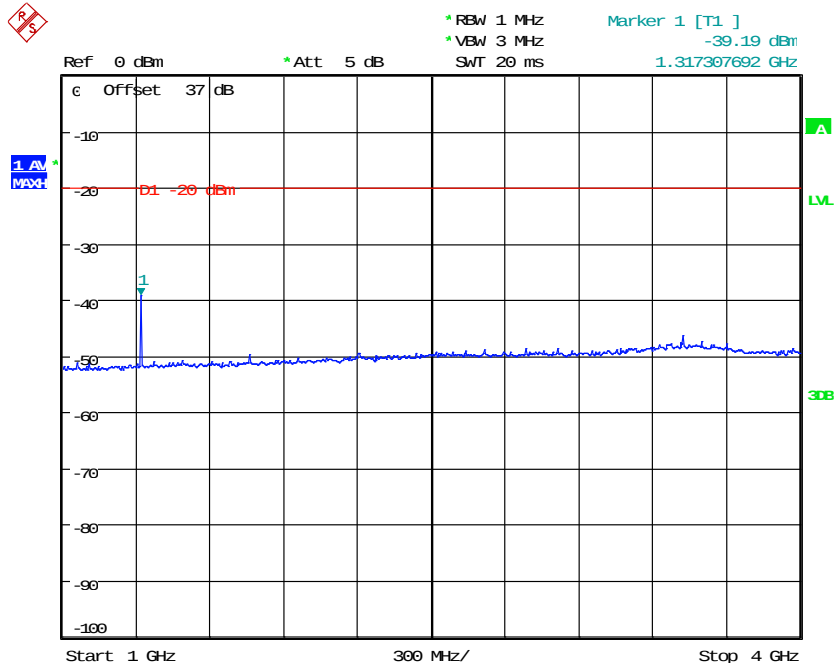


CONDUCTED SPURIOUS EMISSION 12.5K 440MHz
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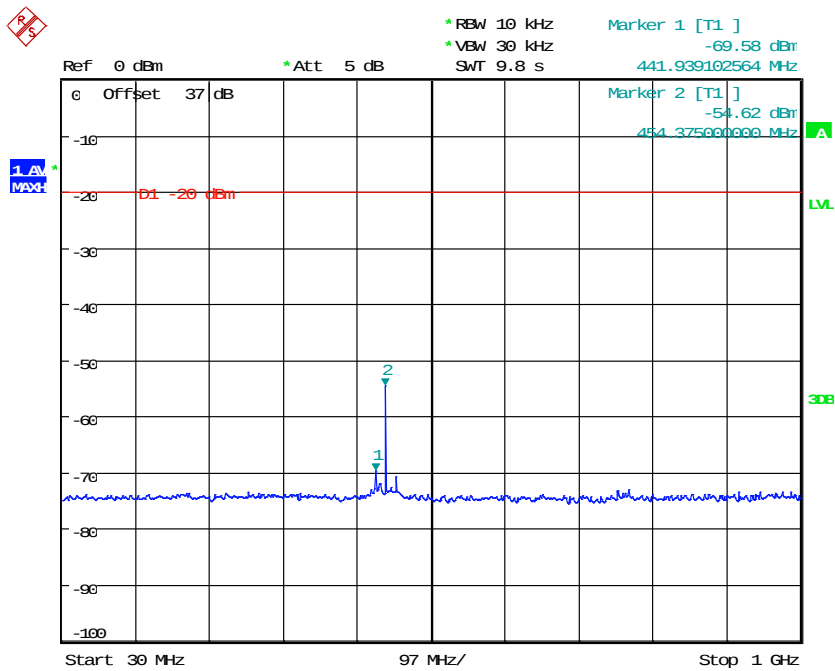
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22003-19794-C-1
FCC ID: L9N-7085PUE5

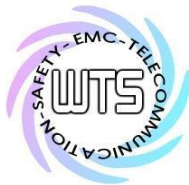


CONDUCTED SPURIOUS EMISSION 12.5K 440MHz
Date: 20.APR.2020 16:00:33

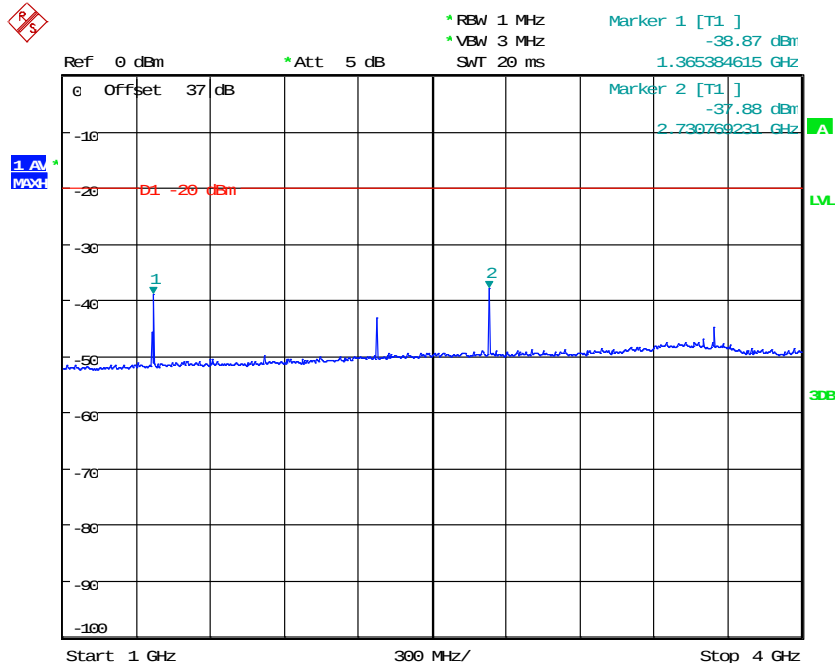
455 MHz



CONDUCTED SPURIOUS EMISSION 12.5K 455MHz
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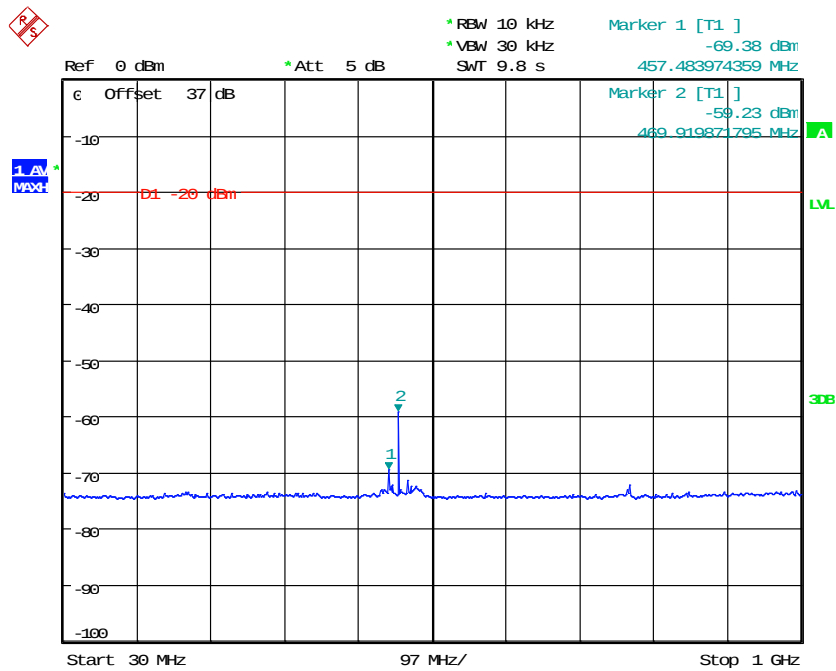


Registration number: W6M22003-19794-C-1
FCC ID: L9N-7085PUE5



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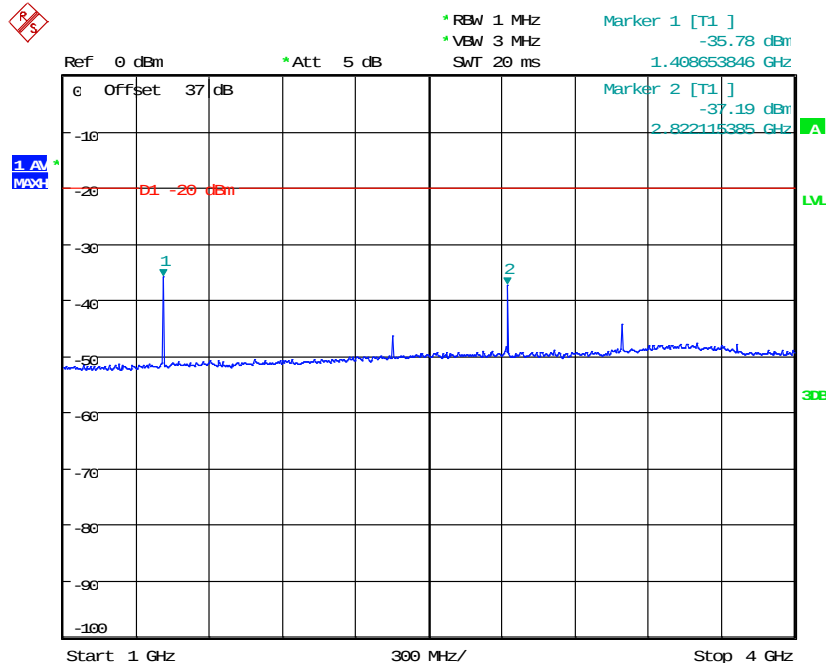
470 MHz



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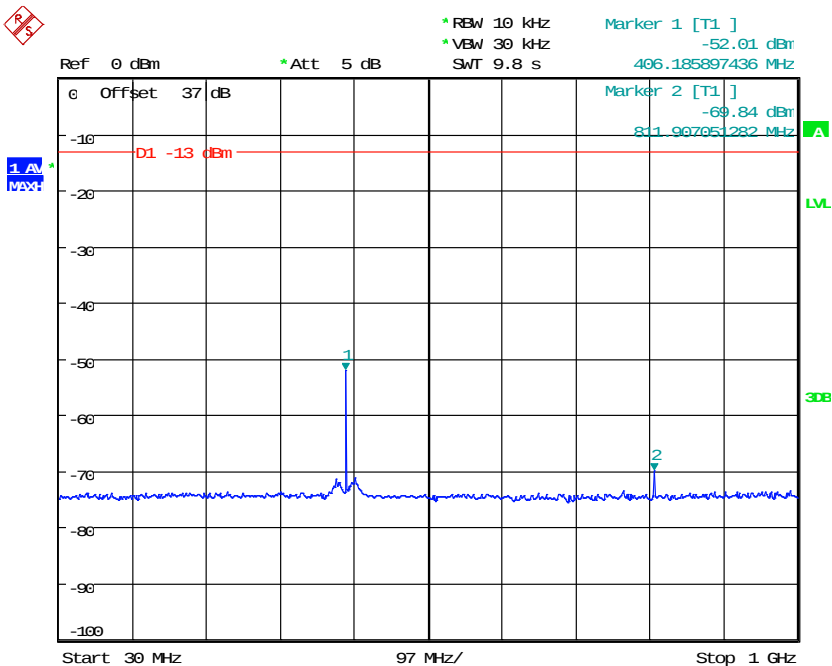


Registration number: W6M22003-19794-C-1
FCC ID: L9N-7085PUE5

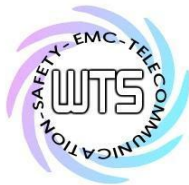


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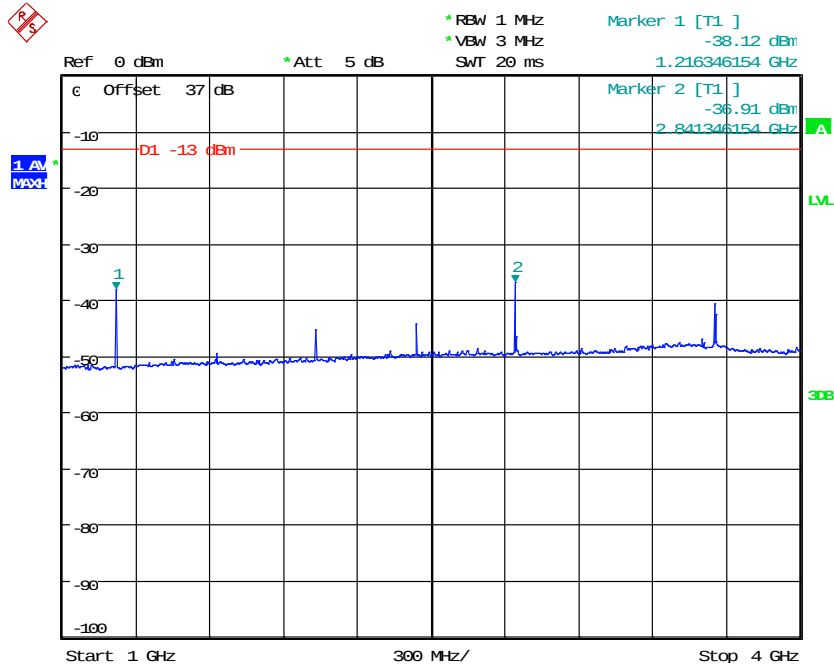
25 kHz
406 MHz



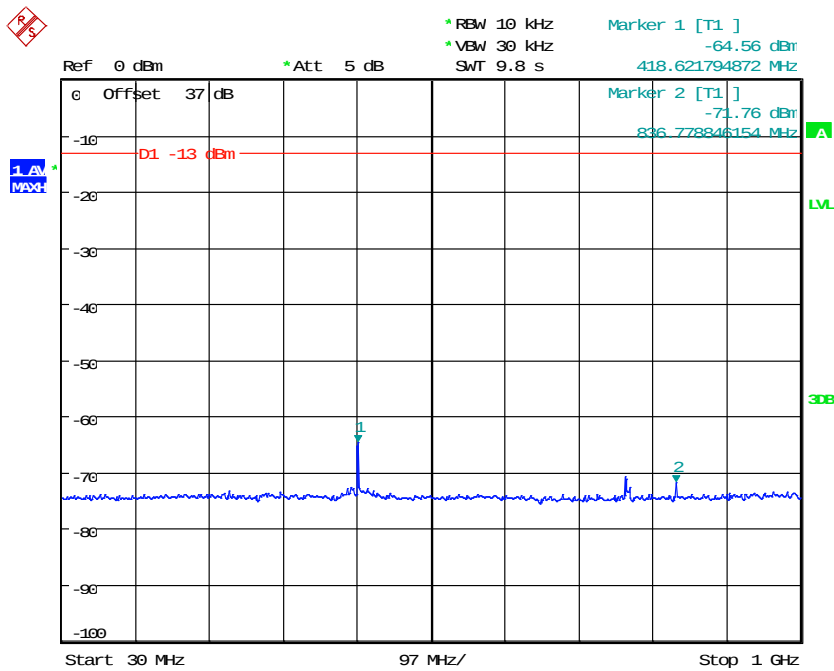
CONDUCTED SPURIOUS EMISSION 25K 406MHz
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Registration number: W6M22003-19794-C-1
FCC ID: L9N-7085PUE5



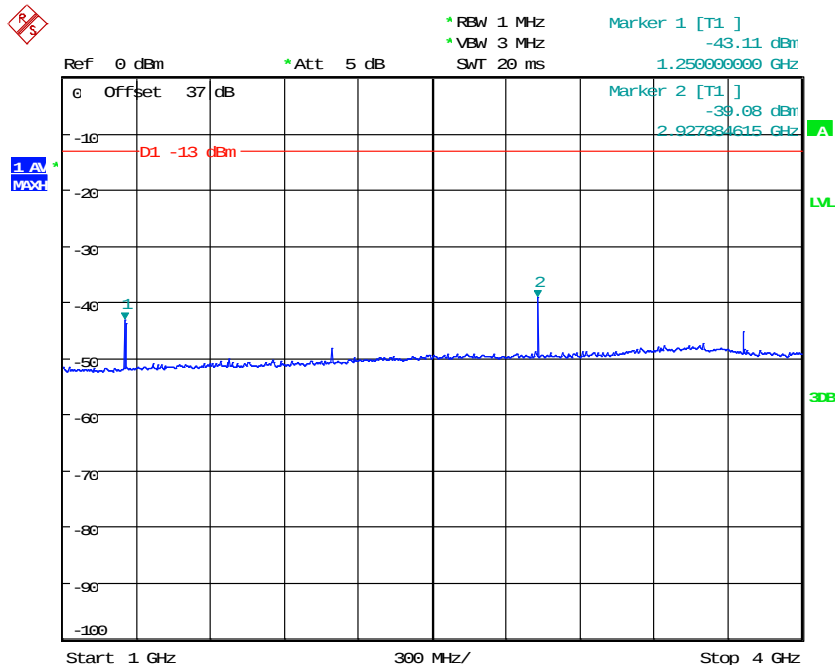
418 MHz





Registration number: W6M22003-19794-C-1

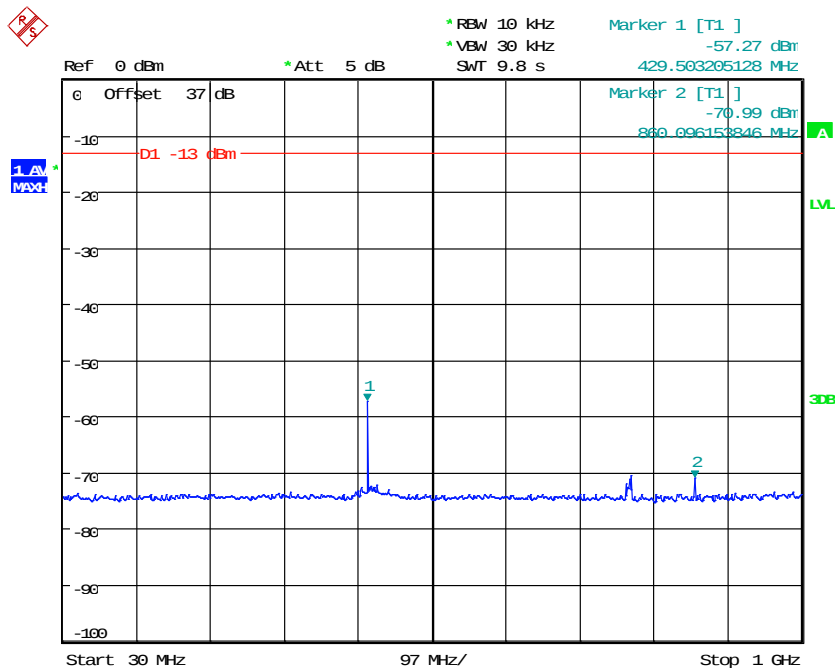
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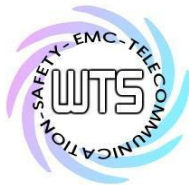
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430 MHz

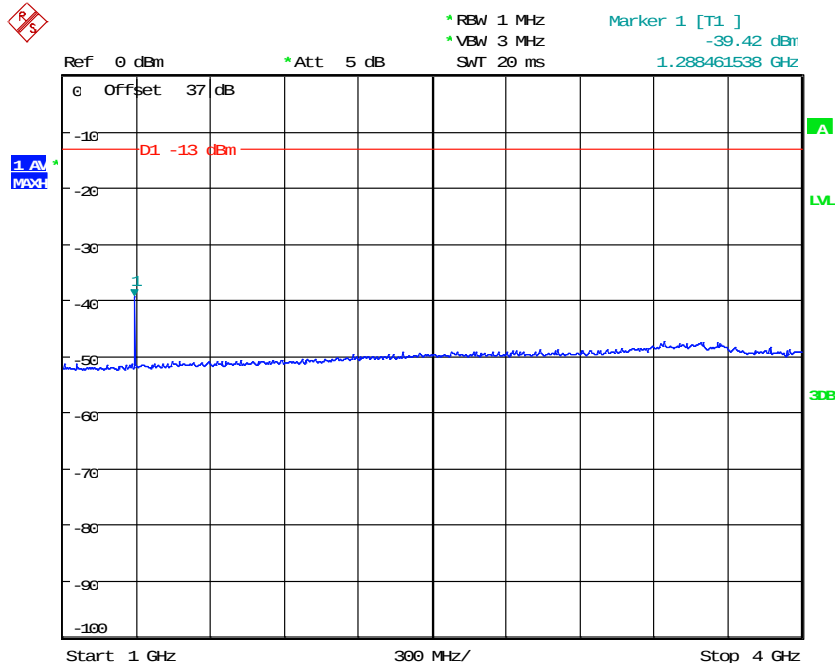


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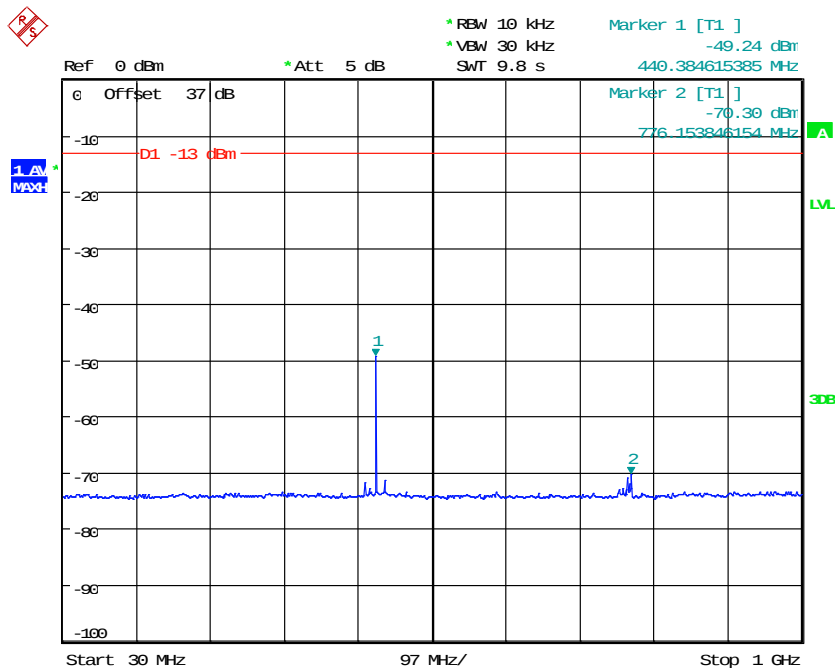


Registration number: W6M22003-19794-C-1
FCC ID: L9N-7085PUE5



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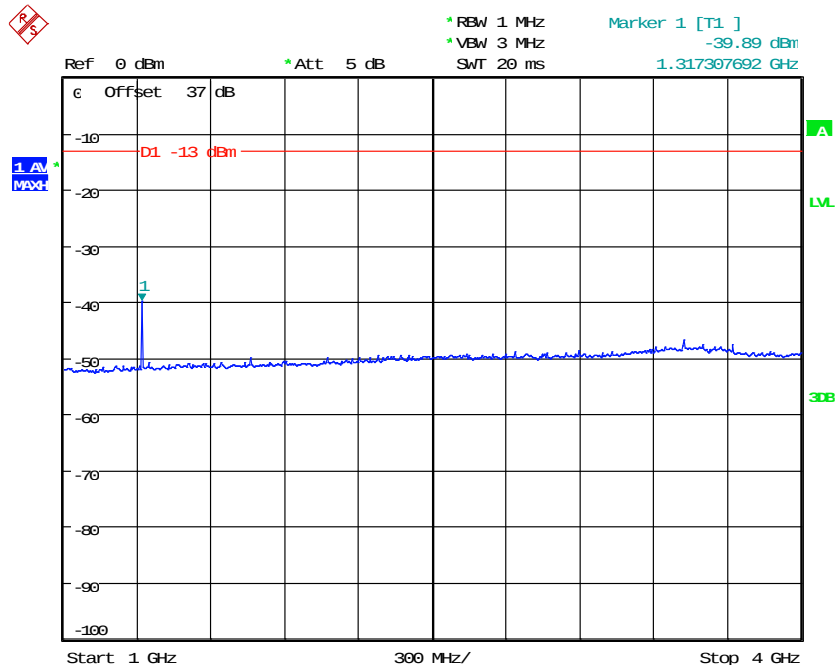
440 MHz



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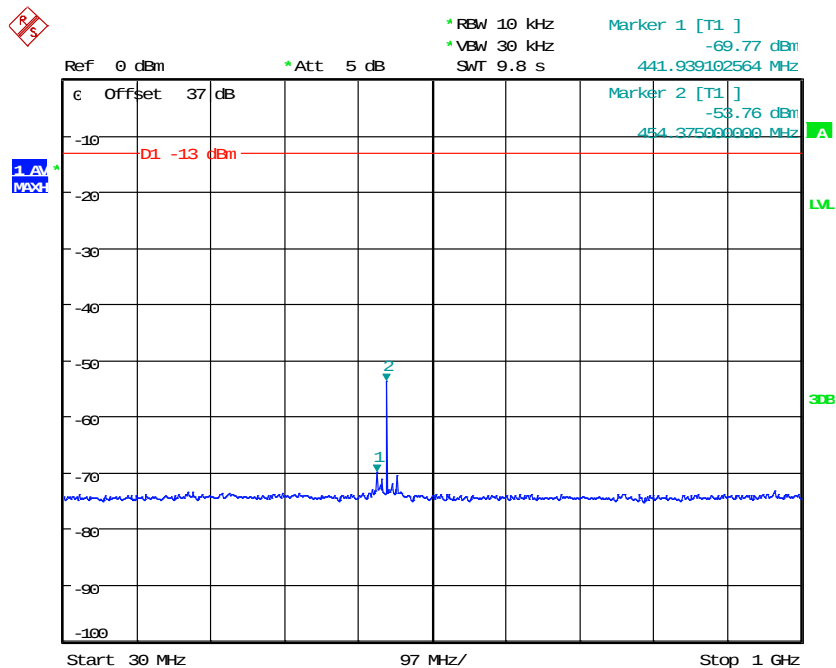


Registration number: W6M22003-19794-C-1
FCC ID: L9N-7085PUE5

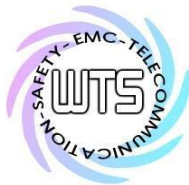


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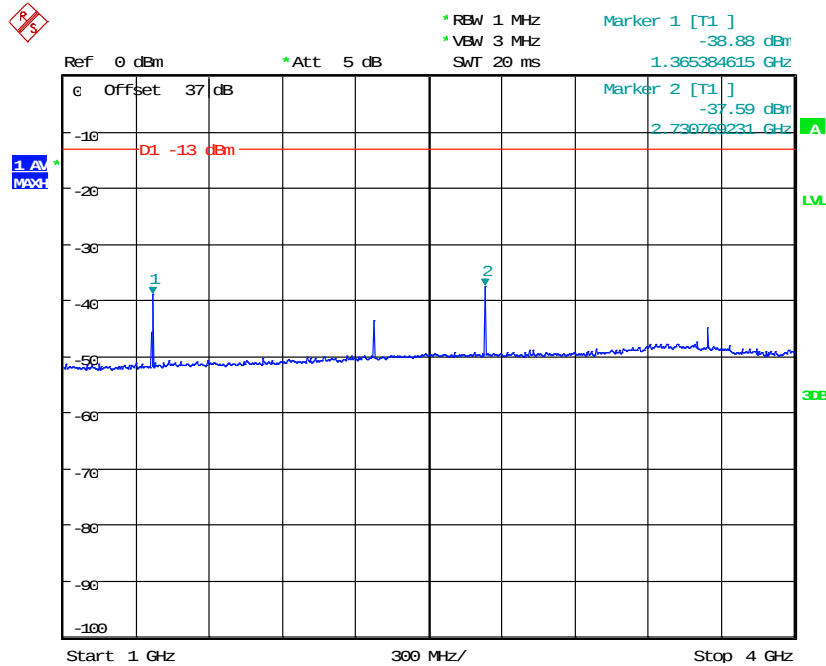
455 MHz



CONDUCTED SPURIOUS EMISSION 25K 455MHz
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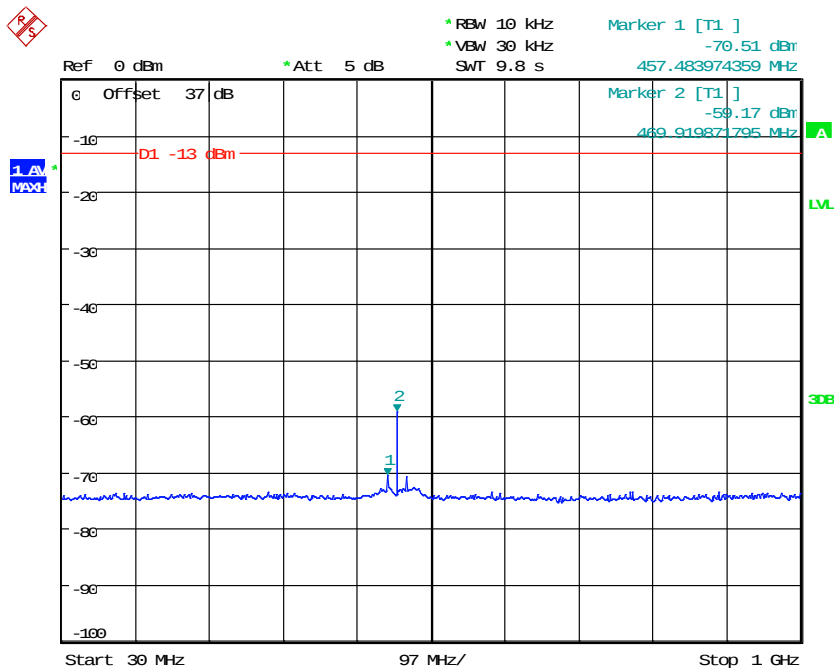


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FCC ID: L9N-7085PUE5

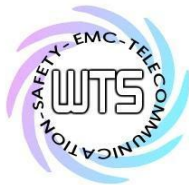


CONDUCTED SPURIOUS EMISSION 25K 455MHz
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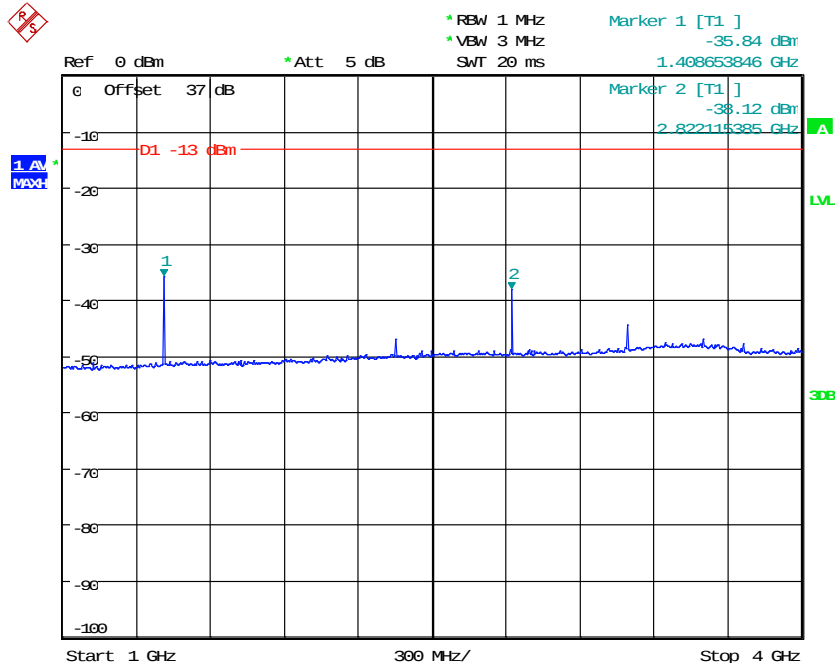
470 MHz



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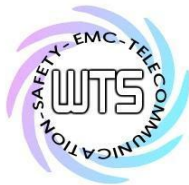


Registration number: W6M22003-19794-C-1
FCC ID: L9N-7085PUE5



CONDUCTED SPURIOUS EMISSION 25K 470MHz
Date: 20.APR.2020 15:57:10

Test equipment used: ETSTW-RE 055, ETSTW-RE 072

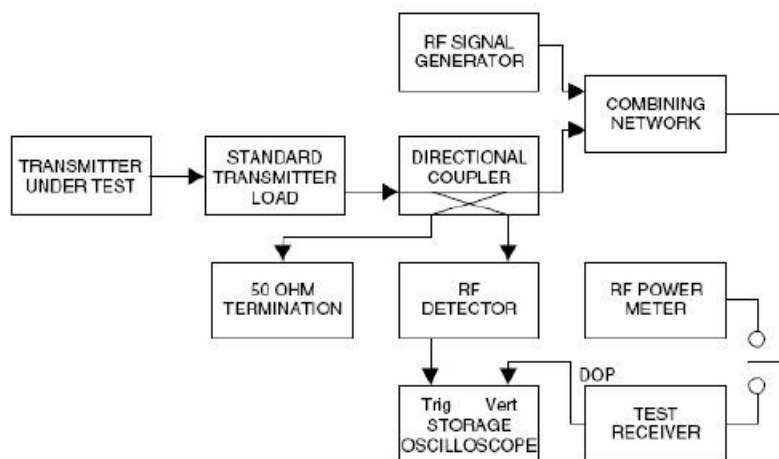


10. Transient frequency behavior

10.1 Test Procedures

1. SG to the assigned transmitter frequency and modulate it with a 1 kHz tone at ± 25 kHz deviation and set its output level to below 30dB of EUT signal level to receiver.
2. Set the horizontal sweep rate on the storage oscilloscope to 10 ms per division and adjust the display to continuously view the 1000 Hz tone from the DOP. Adjust the vertical amplitude control of the oscilloscope to display the 1000 Hz at ± 4 divisions vertically centered on the display.
3. Transmitter on and observe the stored display. The output at the DOP, due to the change in the ratio of power between the signal generator input power and the transmitter output power will, because of the capture effect of the test receiver, produce a change in display: For the first part of the sweep it will show the 1 kHz test signal. Then once the receiver's demodulator has been captured by the transmitter power, the display will show the frequency difference from the assigned frequency to the actual transmitter frequency versus time. The instant when the 1 kHz test signal is completely suppressed (including any capture time due to phasing) is considered to be t_{on} . The trace should be maintained within the allowed divisions during the period t_1 and t_2 . See the figure in the appropriate standards section.
4. During the time from the end of t_2 to the beginning of t_3 the frequency difference should not exceed the limits set by the FCC in 47 CFR 90.214 and outlined in 3.2.2. The allowed limit is equal to the transmitter frequency times its FCC frequency tolerance times ± 4 display divisions divided by 25 kHz. For example, at a transmitter assigned frequency of 500 MHz and a frequency tolerance of 5 ppm. This would be 500 MHz times 5 ppm times ± 4 divisions divided by 25 kHz. This equals ± 0.4 divisions in this example. Greater vertical sensitivity may be required to view this accurately
5. Adjust the oscilloscope trigger controls so it will trigger on a decreasing magnitude from the RF peak detector, at 1 division from the right side of the display, when the transmitter is turned off. Set the controls to store the display. The moment when the 1 kHz test signal starts to rise is considered to provide t_{off} .

10.2 Test Setup





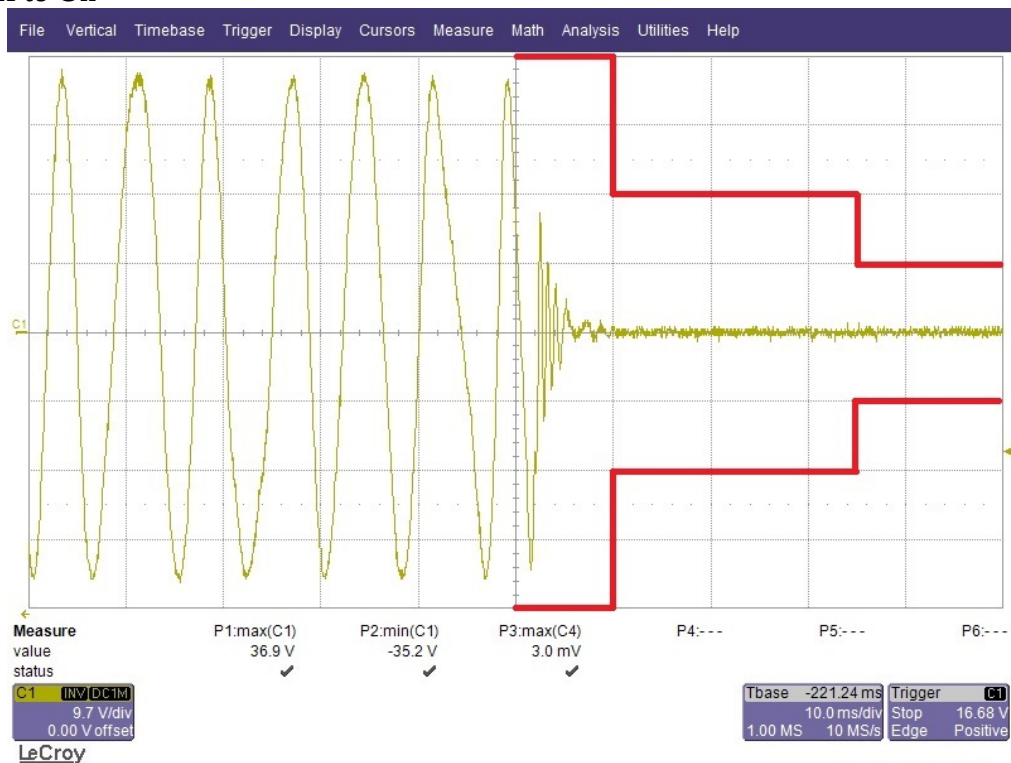
Registration number: W6M22003-19794-C-1

FCC ID: L9N-7085PUE5

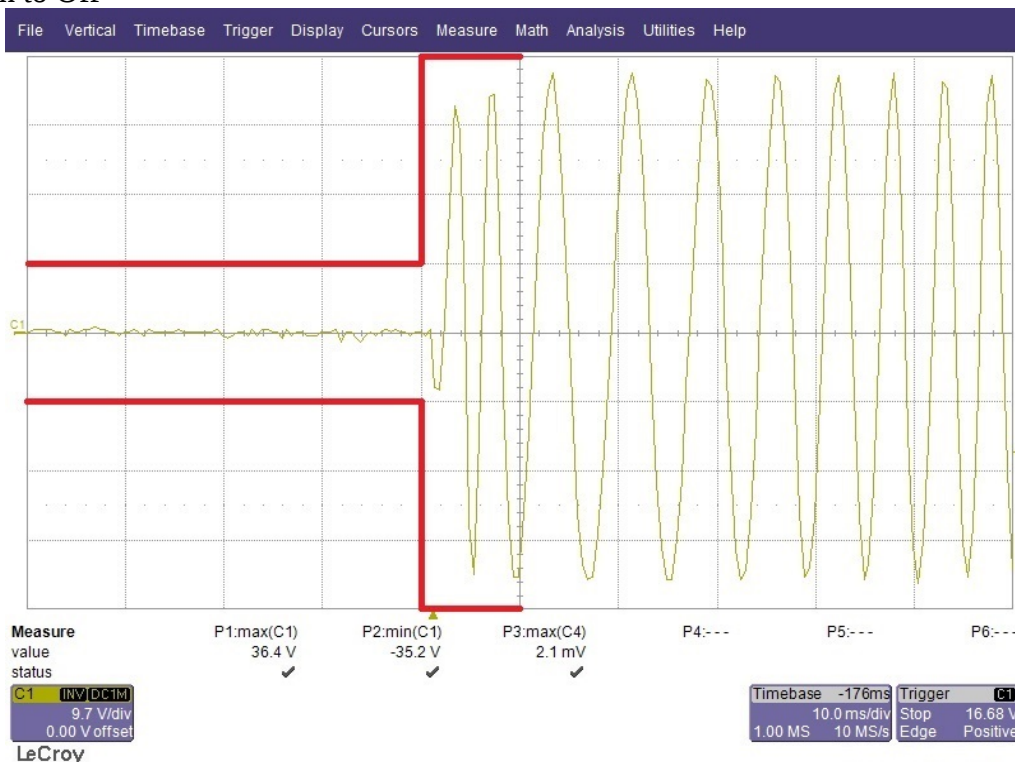
10.3 Test Result

Test date: April 21, 2020 Temperature: 21.9°C Humidity: 56.8% Tester: Sora

406 MHz Off to On



406 MHz On to Off



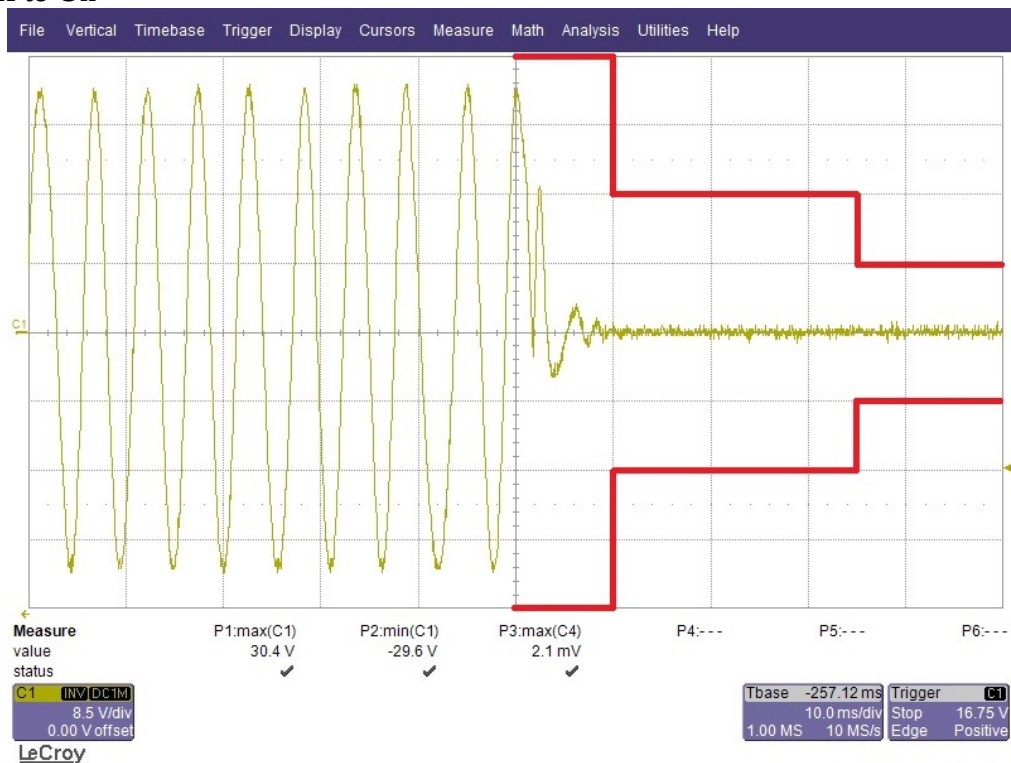


Worldwide Testing Services(Taiwan) Co., Ltd.

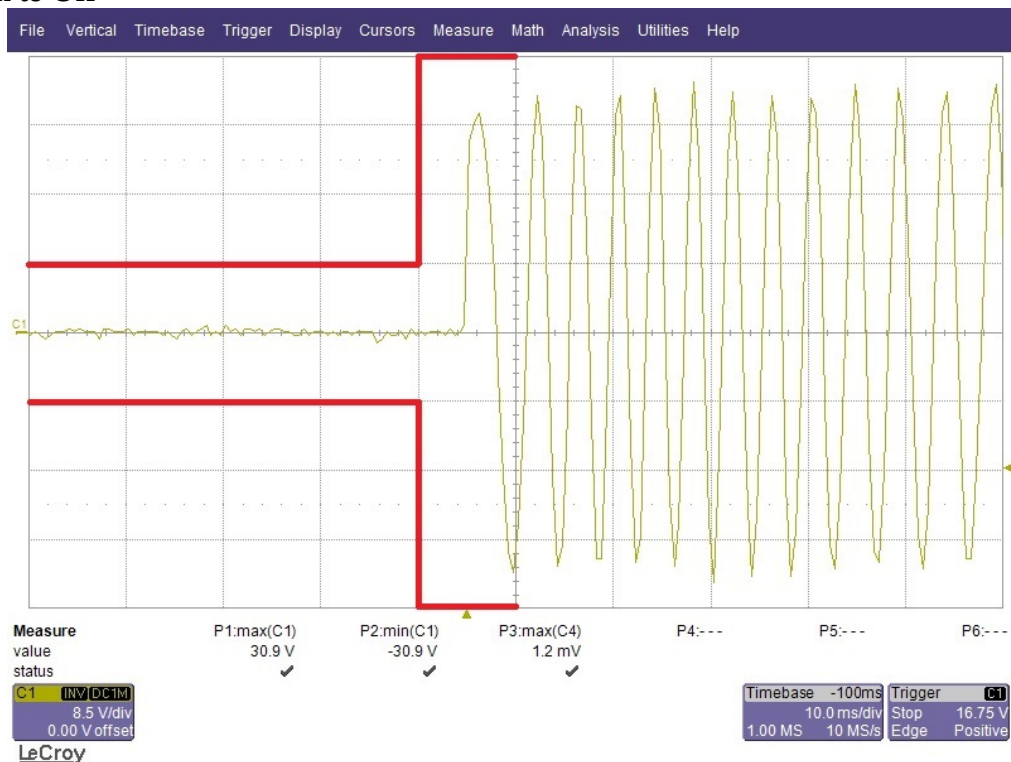
Registration number: W6M22003-19794-C-1

FCC ID: L9N-7085PUE5

418 MHz Off to On



418 MHz On to Off



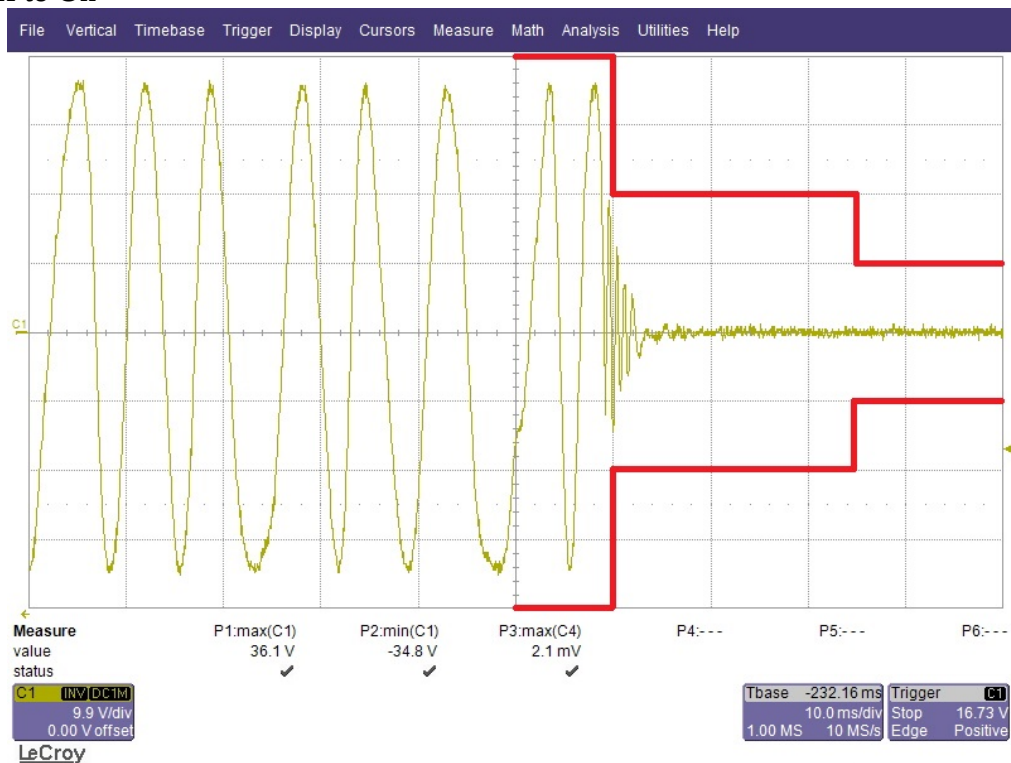


Worldwide Testing Services(Taiwan) Co., Ltd.

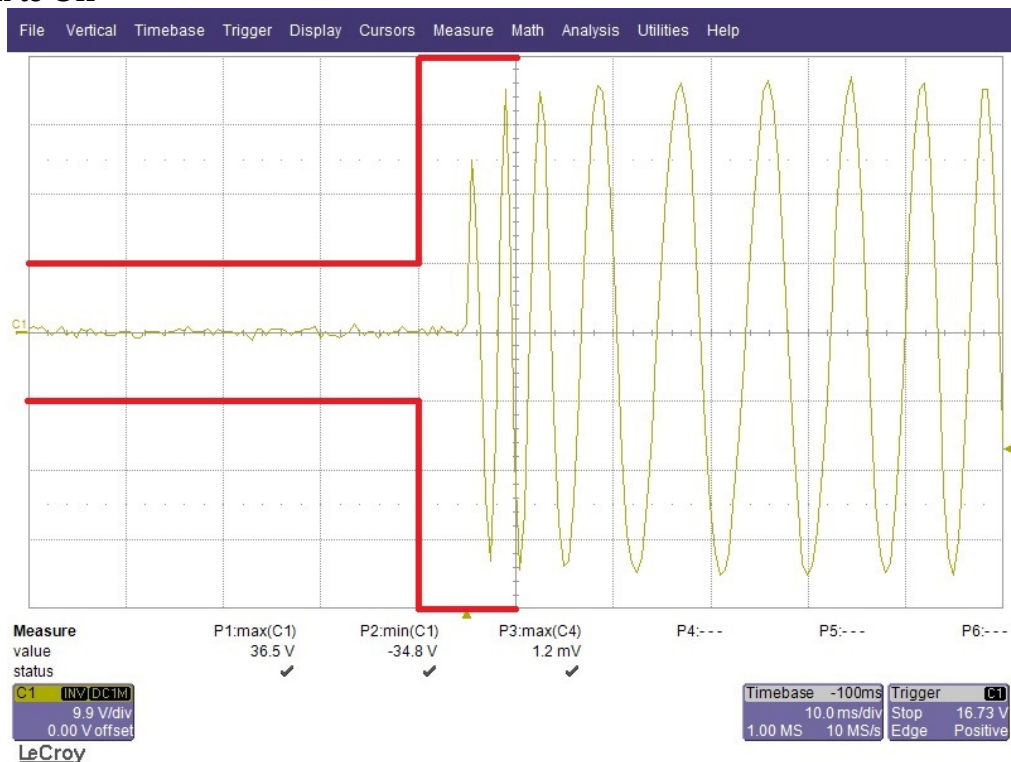
Registration number: W6M22003-19794-C-1

FCC ID: L9N-7085PUE5

430 MHz Off to On



430 MHz On to Off

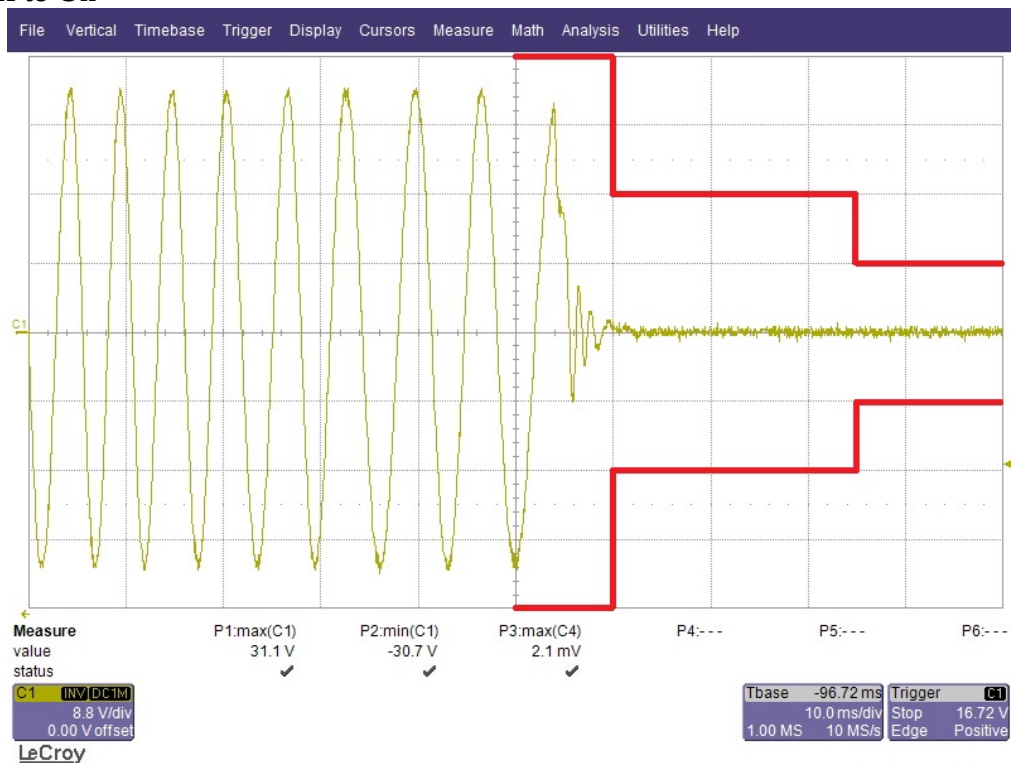




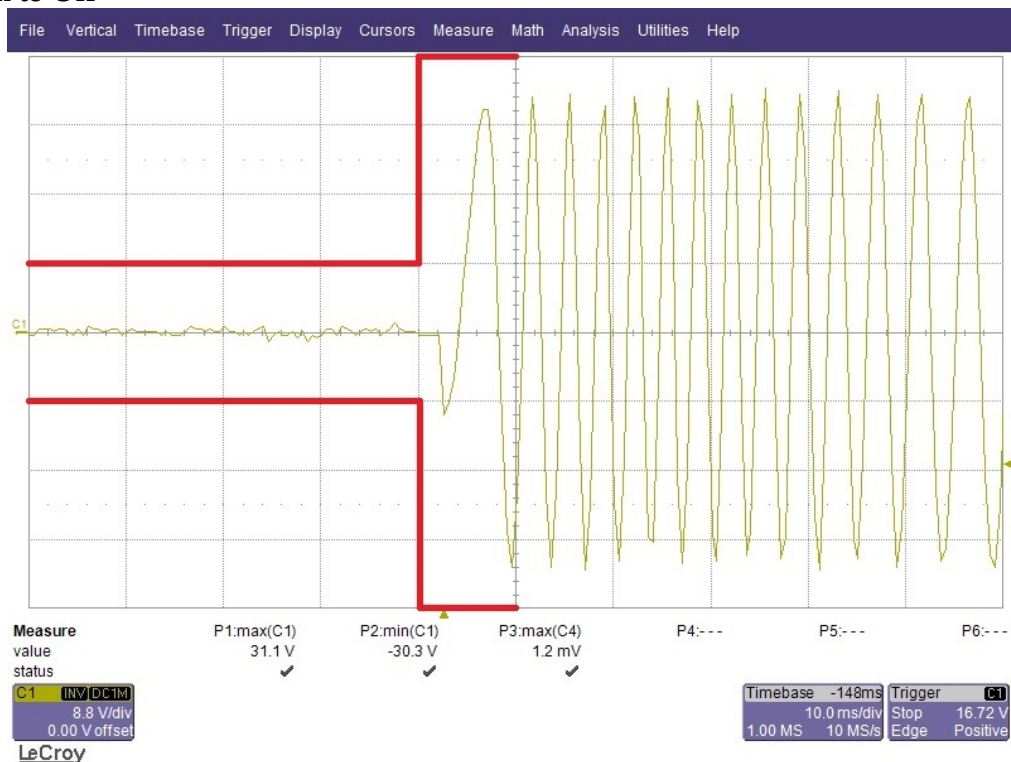
Registration number: W6M22003-19794-C-1

FCC ID: L9N-7085PUE5

440 MHz Off to On



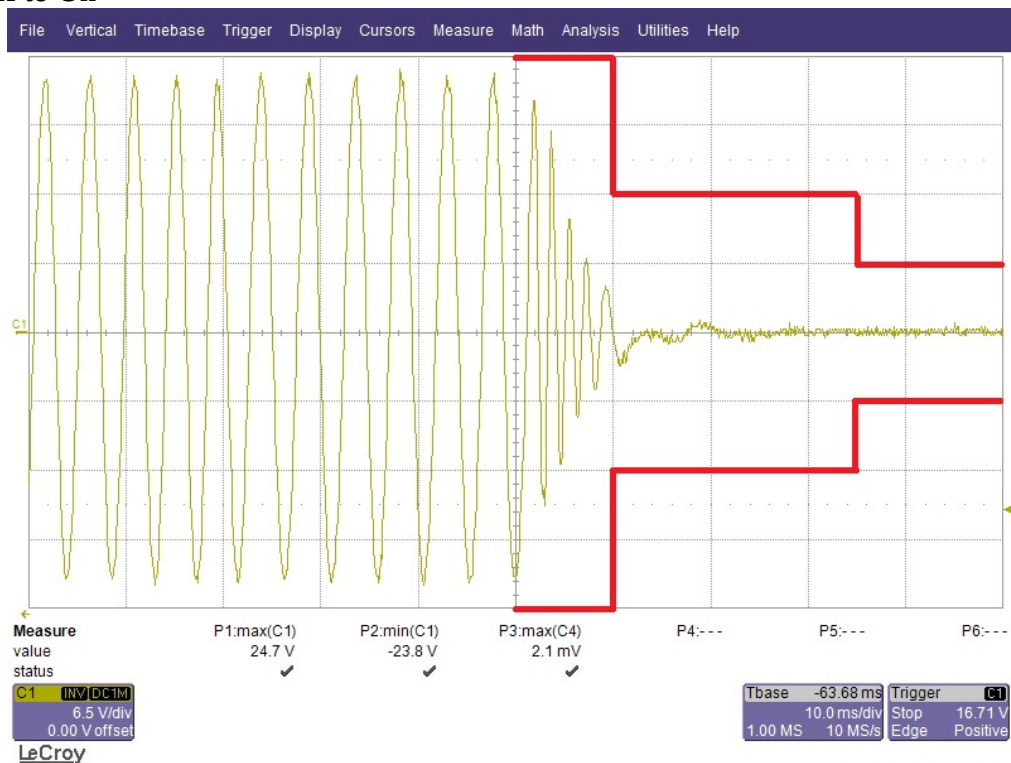
440 MHz On to Off



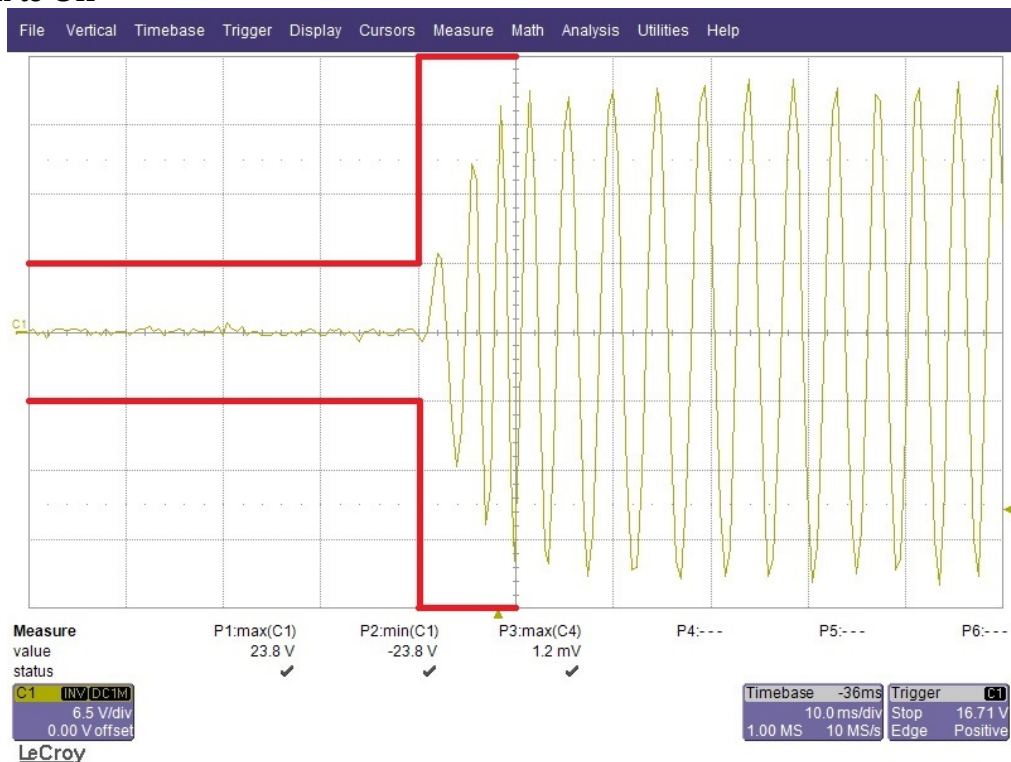
Registration number: W6M22003-19794-C-1

FCC ID: L9N-7085PUE5

455 MHz Off to On



455 MHz On to Off



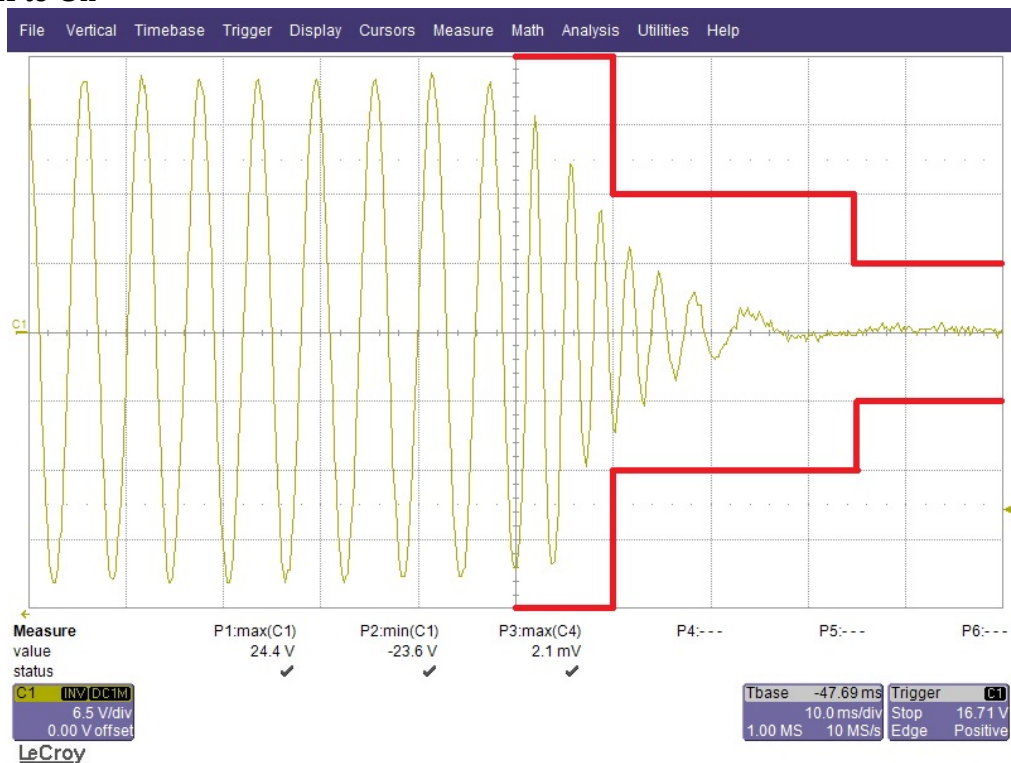


Worldwide Testing Services(Taiwan) Co., Ltd.

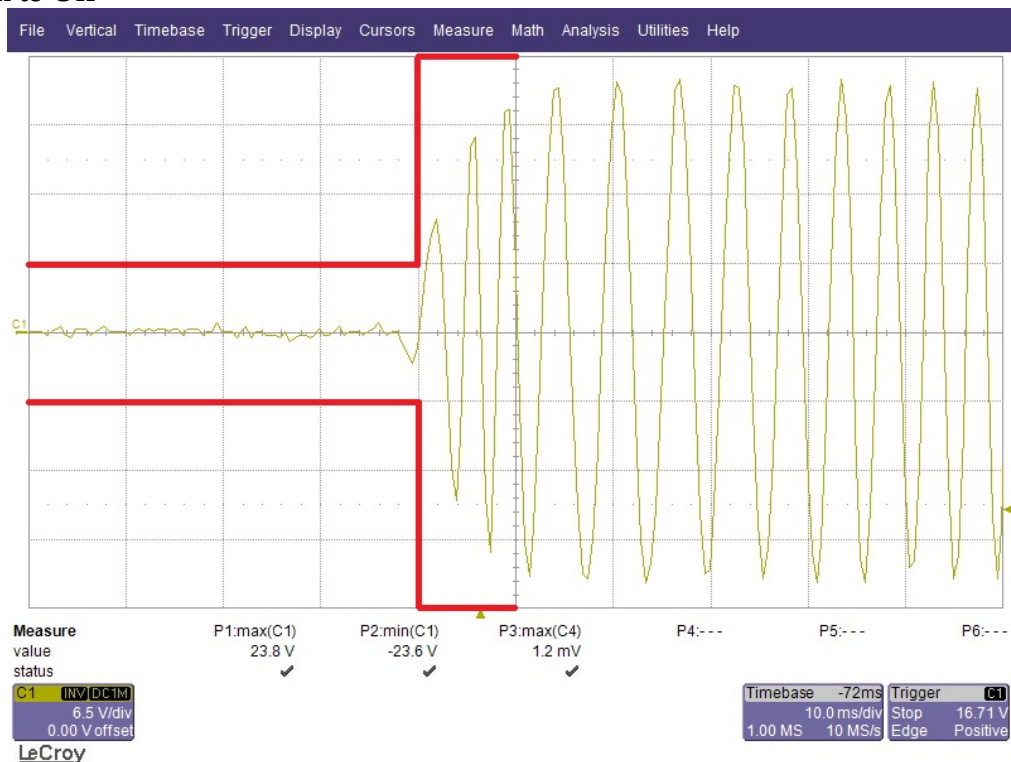
Registration number: W6M22003-19794-C-1

FCC ID: L9N-7085PUE5

470 MHz Off to On



470 MHz On to Off



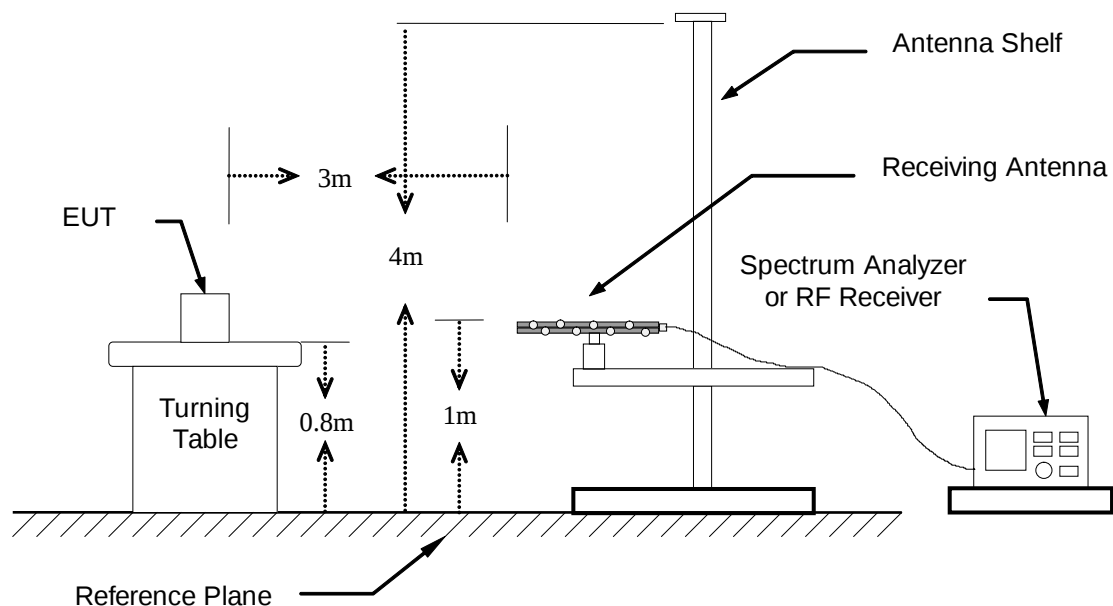
Test equipment used: ETSTW-RE 072, ETSTW-RE 033

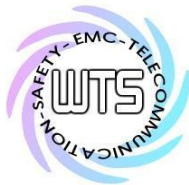
11. Receiver Radiated Spurious Emission

11.1 Test Procedures

1. Configure the EUT according to ANSI C63.4.
2. The EUT was placed on the top of the turn table 0.8 meter above ground.
3. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turn table.
4. Power on the EUT and all the supporting units.
5. The turn table was rotated 360 degrees to determine the position of the highest radiation.
6. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emission field strength of both horizontal and vertical polarization.
7. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turn table was rotated (from 0 degree to 360 degrees) to find the maximum reading.
8. Adjust the spectrum analyzer for the following settings:
 - Resolution Bandwidth = 100 kHz for spurious emissions below 1 GHz and 1 MHz for spurious emissions above 1GHz.
 - Video Bandwidth = 100 kHz for spurious emissions below 1 GHz, and 1 MHz for spurious emissions above 1 GHz.
 - Sweep Speed slow enough to maintain measurement calibration.
 - Detector Mode = Positive Peak.

11.2 Test Setup





Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22003-19794-C-1

FCC ID: L9N-7085PUE5

11.3 Test Result

Model: 52-7085UE5 Date: --
Mode: -- Temperature: -- °C Engineer: --
Polarization: Horizontal Humidity: -- %

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--

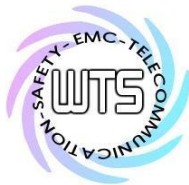
Note

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. Up Line: PK Limit Line, Down Line: Ave Limit Line.
6. The test results are listed in the separated test report no.: W6M22003-19794-P-15B.

Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

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

Test equipment used: ETSTW-RE 004, ETSTW-RE 030, ETSTW-RE 062, ETSTW-RE 142,
ETSTW-RE 147



12. Maximum Permissible Exposure

12.1 Applicable Standard

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.9 m normally can be maintained between the user and the device.

12.2 MPE Calculation Method

(A) Limits for Occupational/Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f ²)*	6
30-300	61.4	0.163	1.0	6
300-1500	--	--	f/300	6
1500-100,000	--	--	5	6

(B) Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f ²)*	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/1500	30
1500-100,000	--	--	1.0	30

f = frequency in MHz

*Plane-wave equivalent power density

$$E \text{ (V/m)} \cdot \frac{\sqrt{30 \times P \times G}}{d}$$

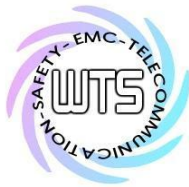
$$\text{Power Density: } Pd \text{ (W/m}^2\text{)} \cdot \frac{E^2}{377}$$

E = Electric field (V/m) P = output power (W) G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd \cdot \frac{30 \times P \times G}{377 \times d^2}$$



Registration number: W6M22003-19794-C-1
FCC ID: L9N-7085PUE5

EIRP = max. conducted output power + antenna gain+ tune up

$$\begin{aligned} \text{EIRP} &= 38.75 \text{ dBm} + (3 \text{ dBi [antenna gain claimed by manufacturer]} + 0.35 \text{ dB [tune up]}) = \\ &42.1 \text{ dBm} = 16218.101 \text{ mW} \end{aligned}$$

Established separation distance is 35 cm.

Operating frequency band: 406~430 MHz, 440~470 MHz

The product meets RF exposure requirement.

Because the power density of 1.0535 mW/cm^2 at 430 MHz is below the power density limit of 1.4333 mW/cm^2 .



Registration number: W6M22003-19794-C-1
FCC ID: L9N-7085PUE5

Appendix

Measurement diagrams

Spurious Emissions radiated



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: Sora

File :1

Data :#1

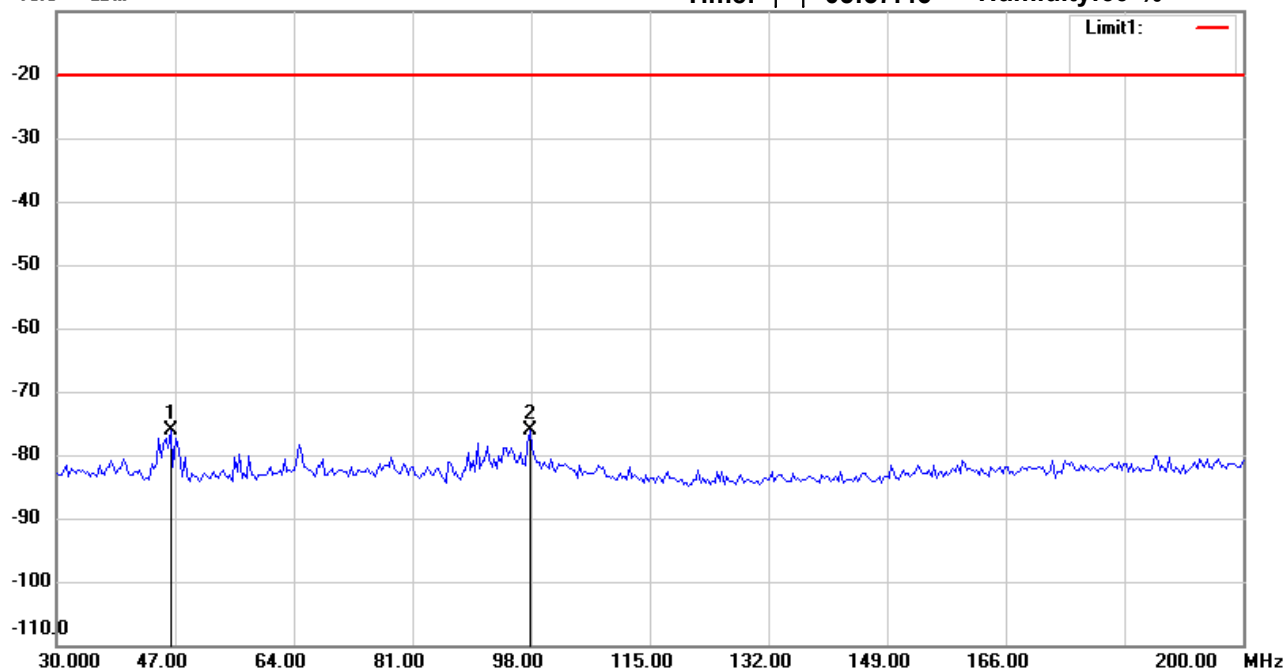
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 05:57:46

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 406MHz

Note :

Polarization: *Horizontal*

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	46.3527	-97.75	peak	21.54	-76.21	-20.00	150	75	-56.21	
	97.7956	-97.67	peak	21.44	-76.23	-20.00	150	40	-56.23	

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



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: Sora

File :1

Data :#2

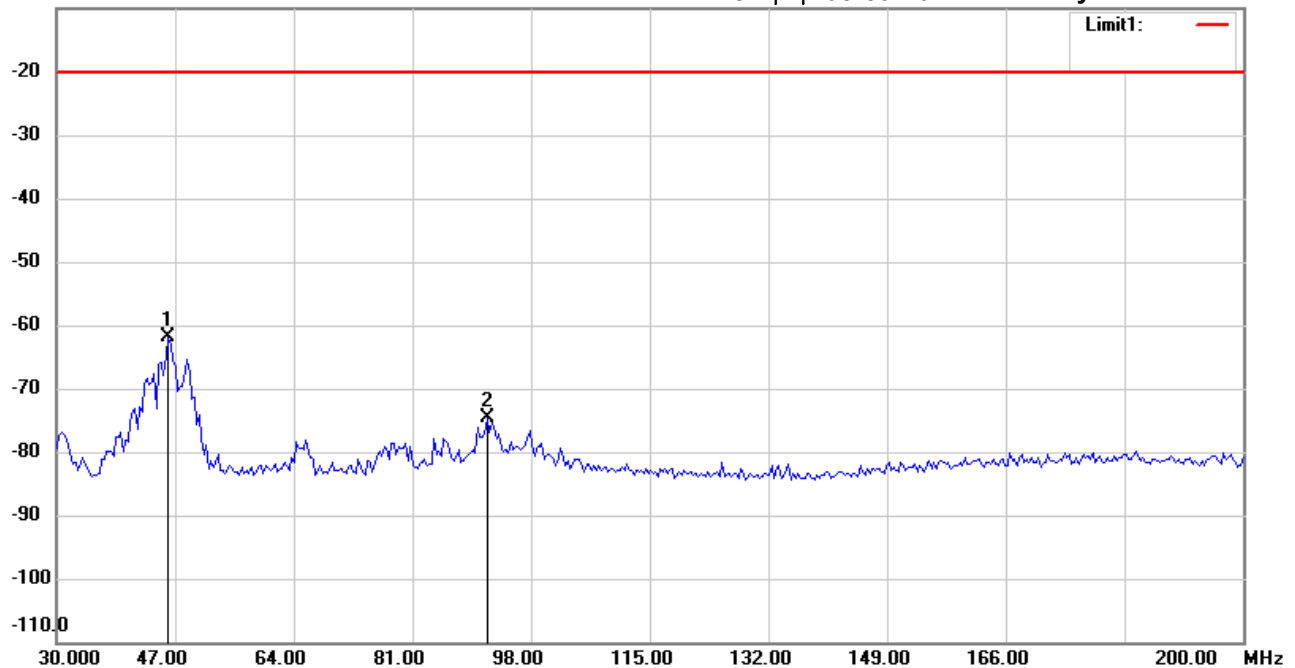
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 05:59:10

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 406MHz

Note :

Polarization: **Vertical**

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	46.0120	-83.04	peak	21.09	-61.95	-20.00	150	280	-41.95	
	91.6633	-96.41	peak	21.72	-74.69	-20.00	150	245	-54.69	

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



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: Sora

File : 2

Data : #1

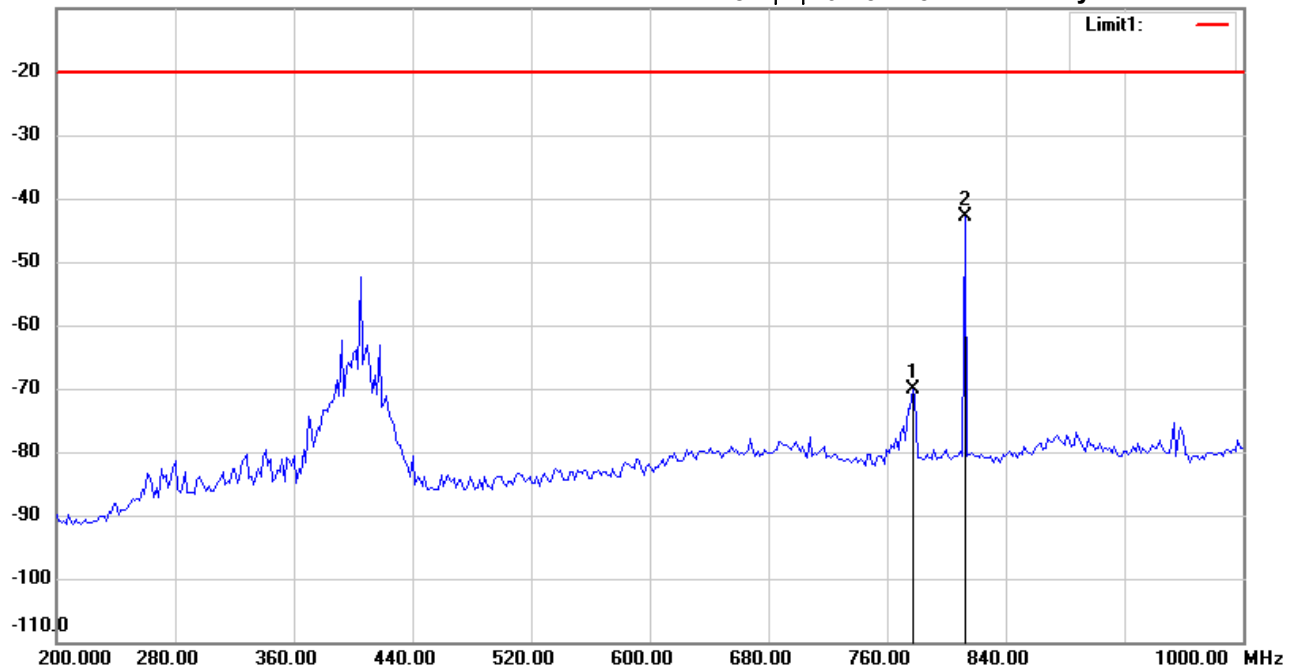
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 04:54:15

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 406MHz

Note :

Polarization: *Horizontal*

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	777.1543	-65.75	peak	-4.39	-70.14	-20.00	150	105	-50.14	
*	812.4248	-38.98	peak	-3.78	-42.76	-20.00	150	210	-22.76	

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



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: Sora

File : 2

Data : #2

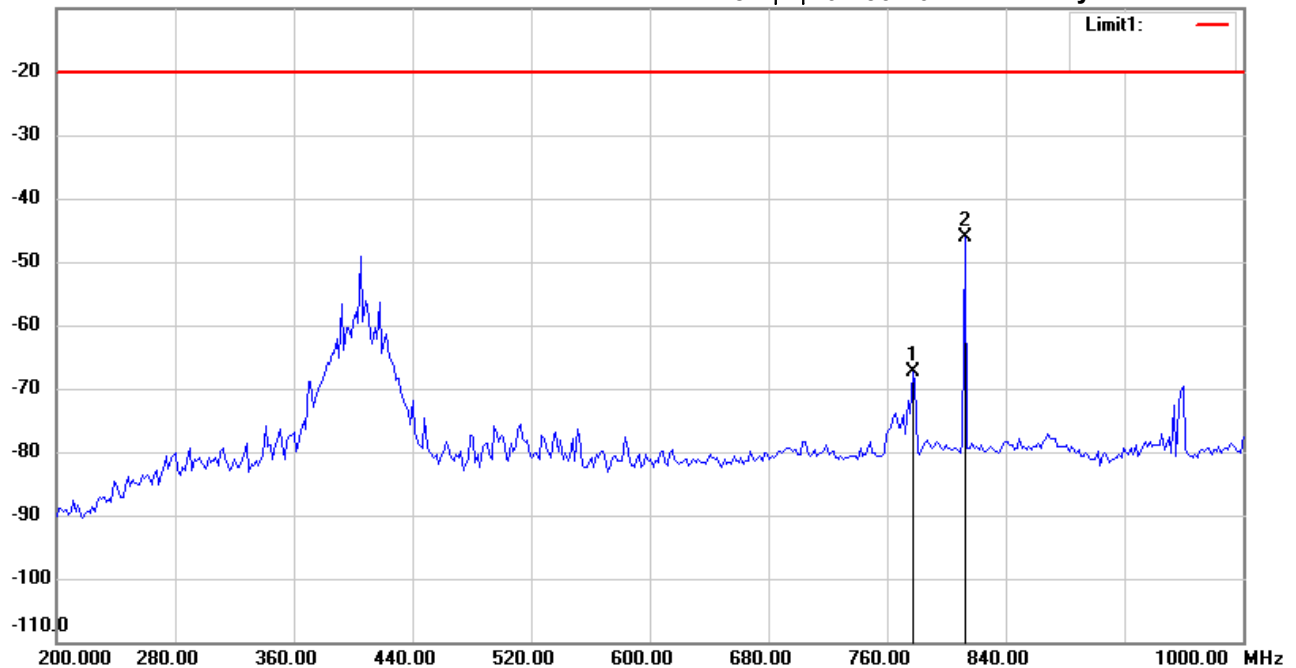
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 04:56:10

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 406MHz

Note :

Polarization: Vertical

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	777.1543	-64.30	peak	-3.14	-67.44	-20.00	150	255	-47.44	
*	812.4248	-43.69	peak	-2.46	-46.15	-20.00	150	285	-26.15	

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



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

Radiated Emission Measurement

Operator: Sora

File : 3

Data : #1

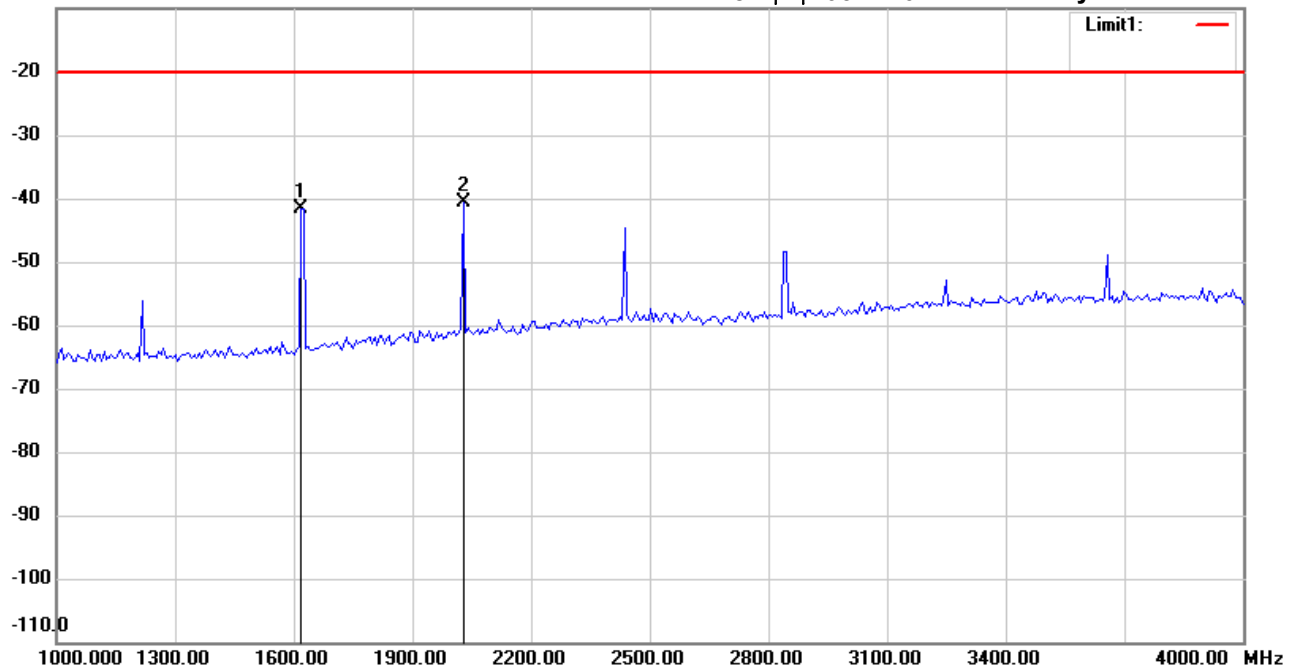
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 03:47:07

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 406MHz

Note :

Polarization: *Horizontal*

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	1619.238	-40.27	peak	-1.41	-41.68	-20.00	150	125	-21.68	
*	2028.056	-41.99	peak	1.26	-40.73	-20.00	150	170	-20.73	

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



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: Sora

File : 3

Data : #2

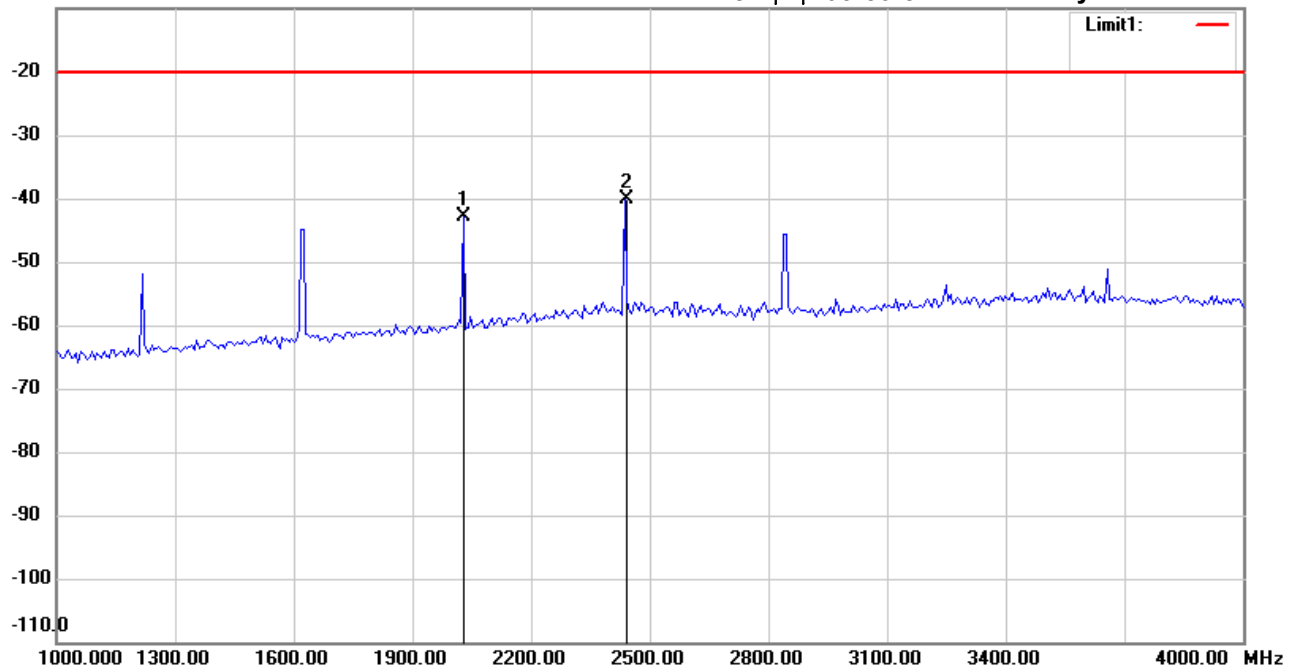
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 03:50:52

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 406MHz

Note :

Polarization: Vertical

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2028.056	-45.36	peak	2.49	-42.87	-20.00	150	315	-22.87	
*	2436.874	-45.24	peak	5.04	-40.20	-20.00	150	240	-20.20	

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



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: Sora

File :1

Data :#1

Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 06:03:05

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 418MHz

Note :

Polarization: **Horizontal**

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	43.6273	-99.67	peak	21.70	-77.97	-20.00	150	35	-57.97	
*	92.6854	-98.62	peak	21.06	-77.56	-20.00	150	155	-57.56	

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



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: Sora

File :1

Data :#2

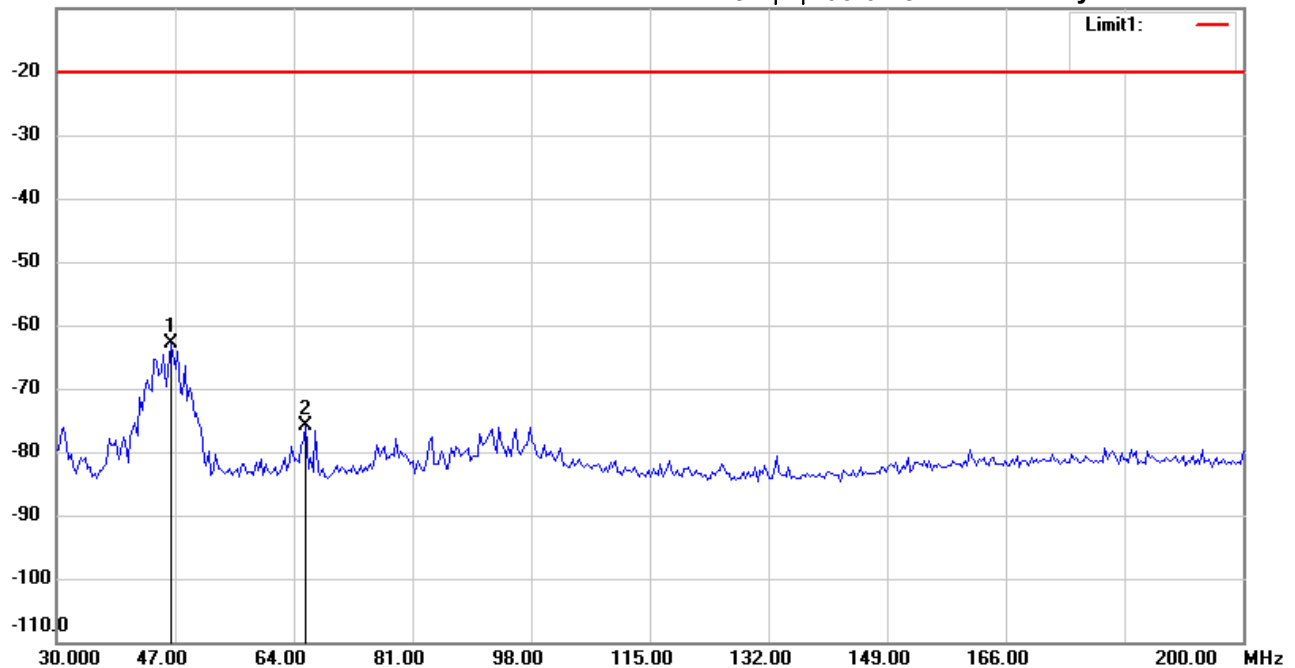
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 06:04:31

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 418MHz

Note :

Polarization: *Vertical*

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	46.3527	-84.02	peak	21.11	-62.91	-20.00	150	335	-42.91	
	65.7715	-97.07	peak	21.24	-75.83	-20.00	150	275	-55.83	

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



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: Sora

File : 2

Data : #1

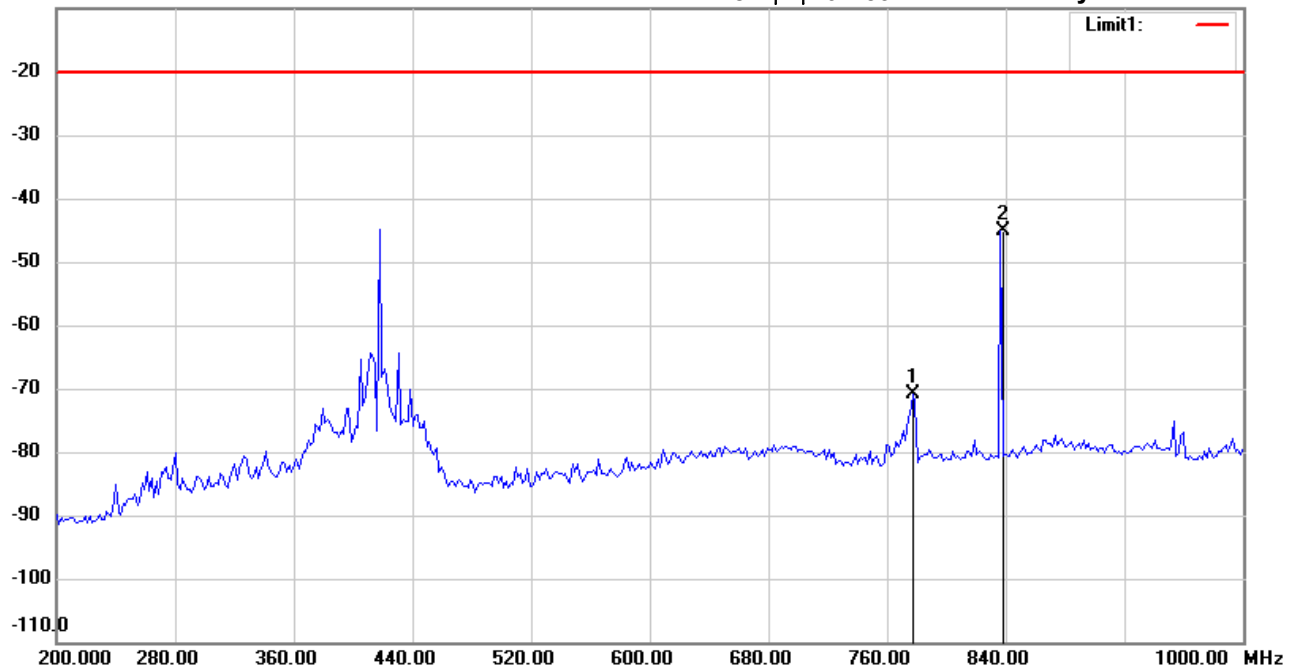
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 04:59:21

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 418MHz

Note :

Polarization: **Horizontal**

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	777.1543	-66.55	peak	-4.39	-70.94	-20.00	150	70	-50.94	
*	836.4730	-42.11	peak	-3.04	-45.15	-20.00	150	150	-25.15	

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



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: Sora

File : 2

Data : #2

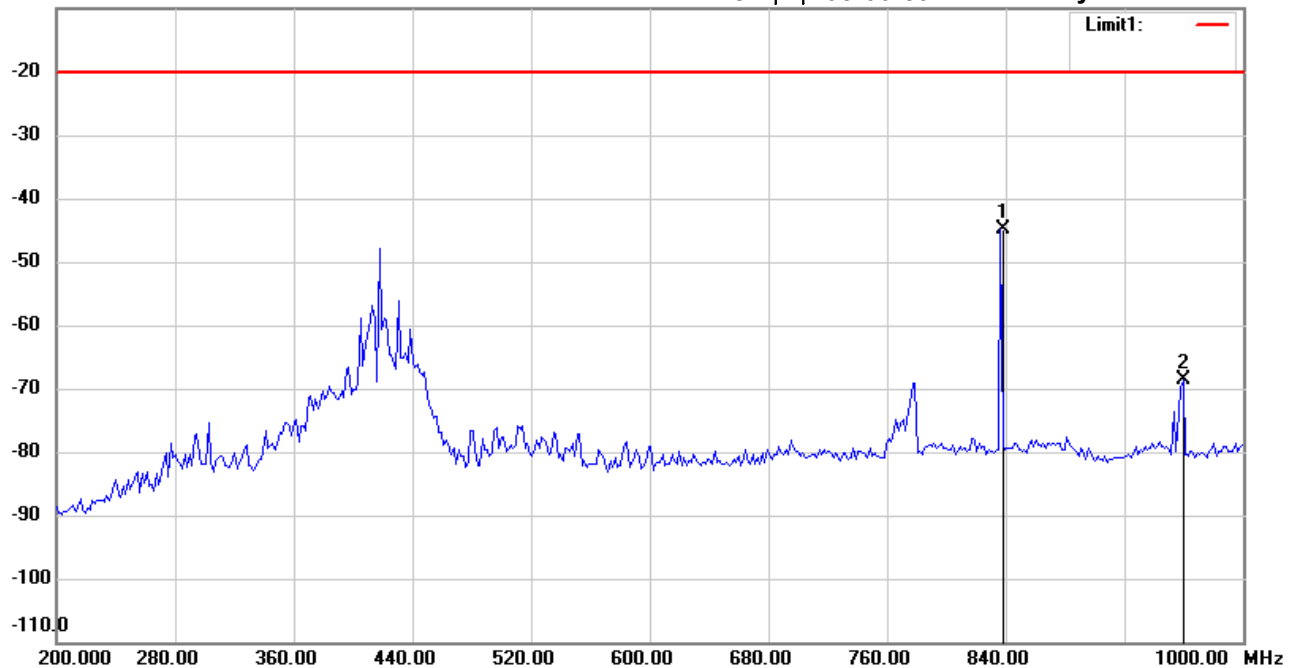
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 05:00:59

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 418MHz

Note :

Polarization: **Vertical**

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	836.4730	-42.97	peak	-1.97	-44.94	-20.00	150	275	-24.94	
	959.9198	-65.83	peak	-2.88	-68.71	-20.00	150	245	-48.71	

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



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

Radiated Emission Measurement

Operator: Sora

File : 3

Data : #1

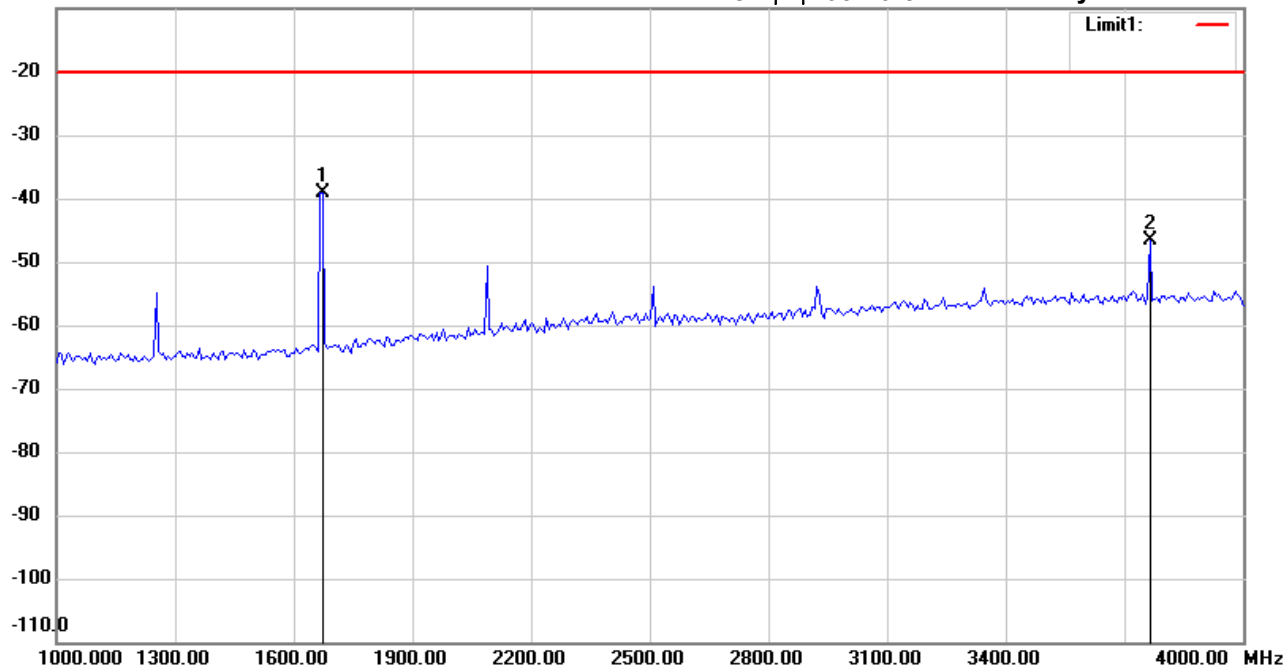
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 03:40:54

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 418MHz

Note :

Polarization: **Horizontal**

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1667.335	-37.98	peak	-1.09	-39.07	-20.00	150	245	-19.07	
	3765.531	-54.27	peak	7.67	-46.60	-20.00	150	155	-26.60	

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



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: Sora

File : 3

Data : #2

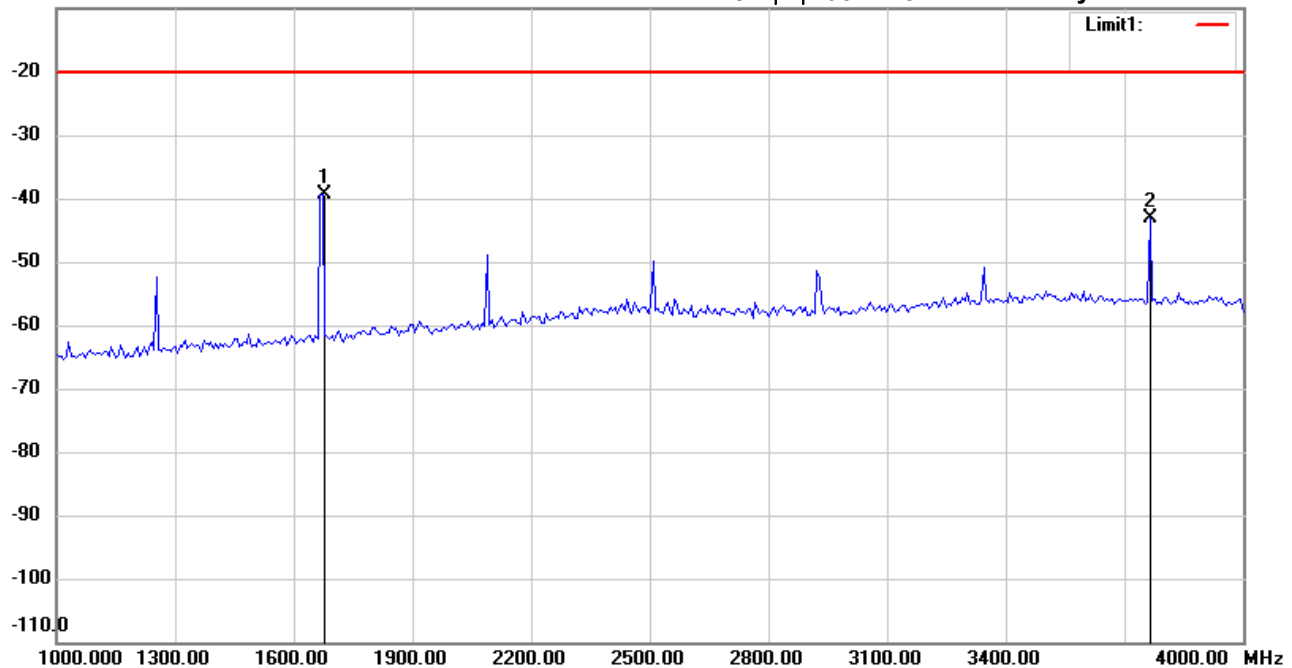
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 03:44:54

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 418MHz

Note :

Polarization: **Vertical**

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1673.347	-40.08	peak	0.64	-39.44	-20.00	150	275	-19.44	
	3765.531	-50.62	peak	7.45	-43.17	-20.00	150	105	-23.17	

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



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: Sora

File :1

Data :#1

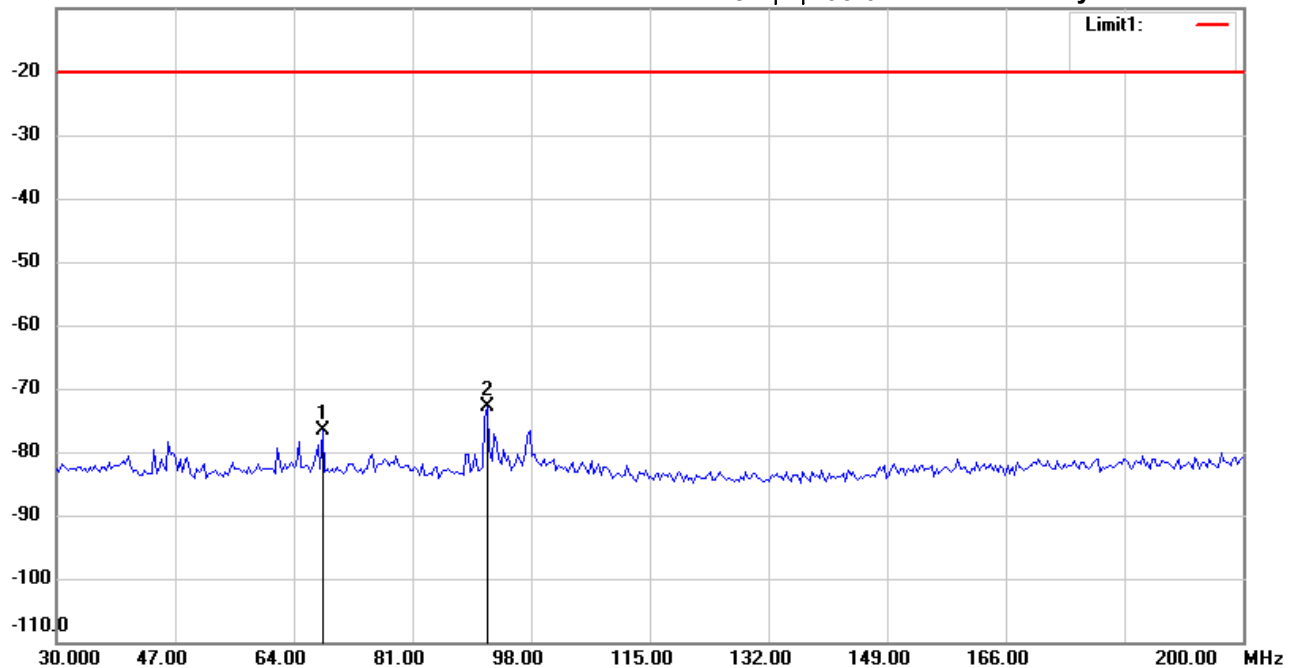
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 06:07:21

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 430MHz

Note :

Polarization: **Horizontal**

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	68.1563	-98.11	peak	21.55	-76.56	-20.00	150	160	-56.56	
*	91.6633	-93.74	peak	20.98	-72.76	-20.00	150	145	-52.76	

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



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: Sora

File :1

Data :#2

Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 06:09:40

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 430MHz

Note :

Polarization: Vertical

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	46.0120	-84.31	peak	21.09	-63.22	-20.00	150	315	-43.22	
	92.3447	-98.66	peak	21.72	-76.94	-20.00	150	285	-56.94	

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



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: Sora

File : 2

Data : #1

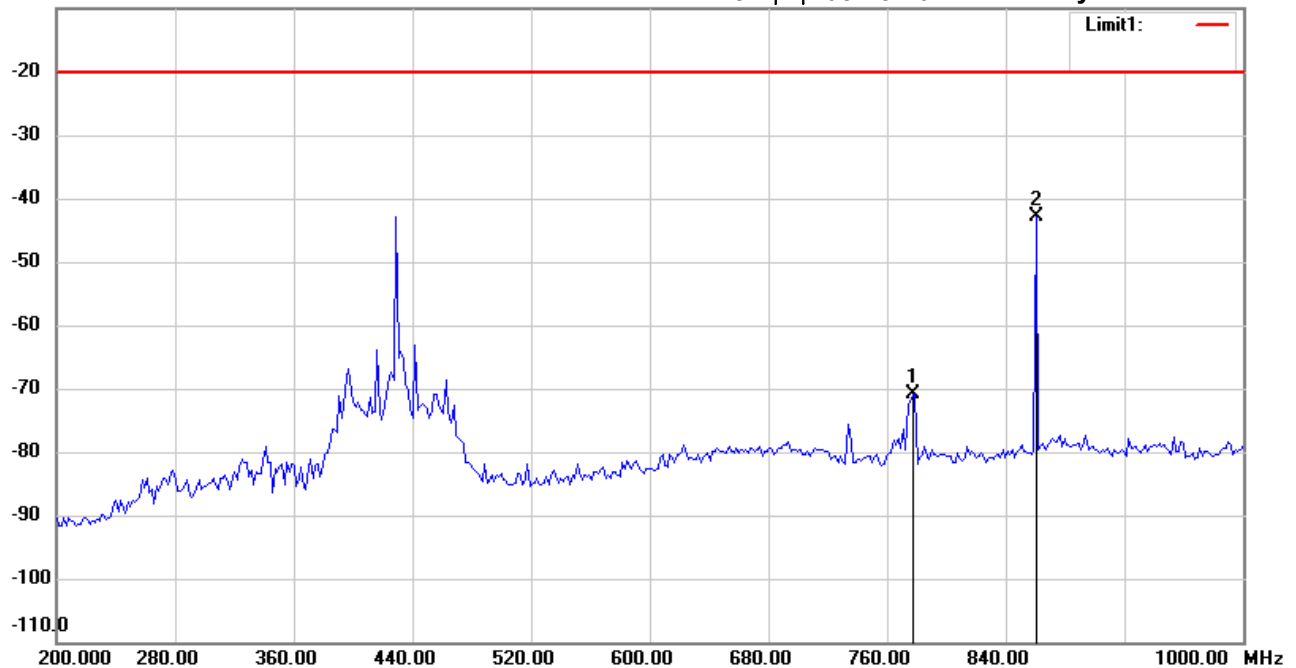
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 05:15:20

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 430MHz

Note :

Polarization: *Horizontal*

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	777.1543	-66.36	peak	-4.39	-70.75	-20.00	150	90	-50.75	
*	860.5210	-40.44	peak	-2.36	-42.80	-20.00	150	110	-22.80	

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



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Radiated Emission Measurement

Operator: Sora

File : 2

Data : #2

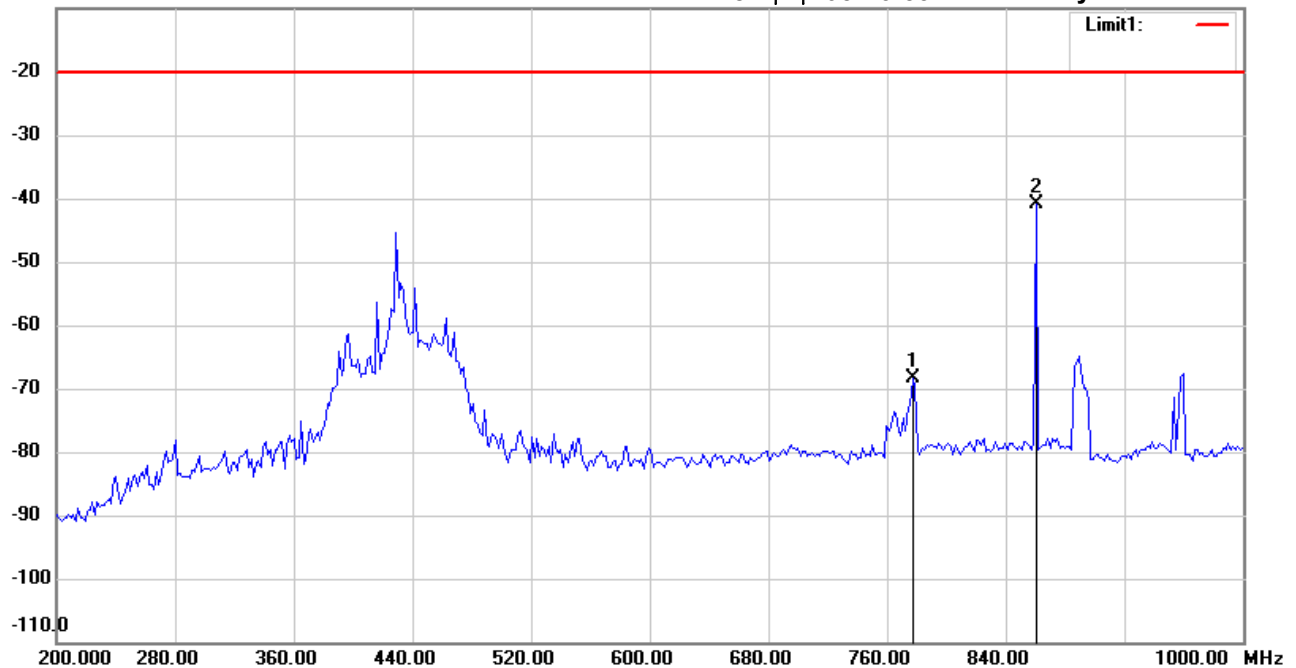
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 05:16:53

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 430MHz

Note :

Polarization: **Vertical**

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	777.1543	-65.26	peak	-3.14	-68.40	-20.00	150	315	-48.40	
*	860.5210	-38.88	peak	-1.93	-40.81	-20.00	150	260	-20.81	

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



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Tel: +886-2-6606-8877
Fax: +886-2-6606-8879

Radiated Emission Measurement

Operator: Sora

File : 3

Data : #1

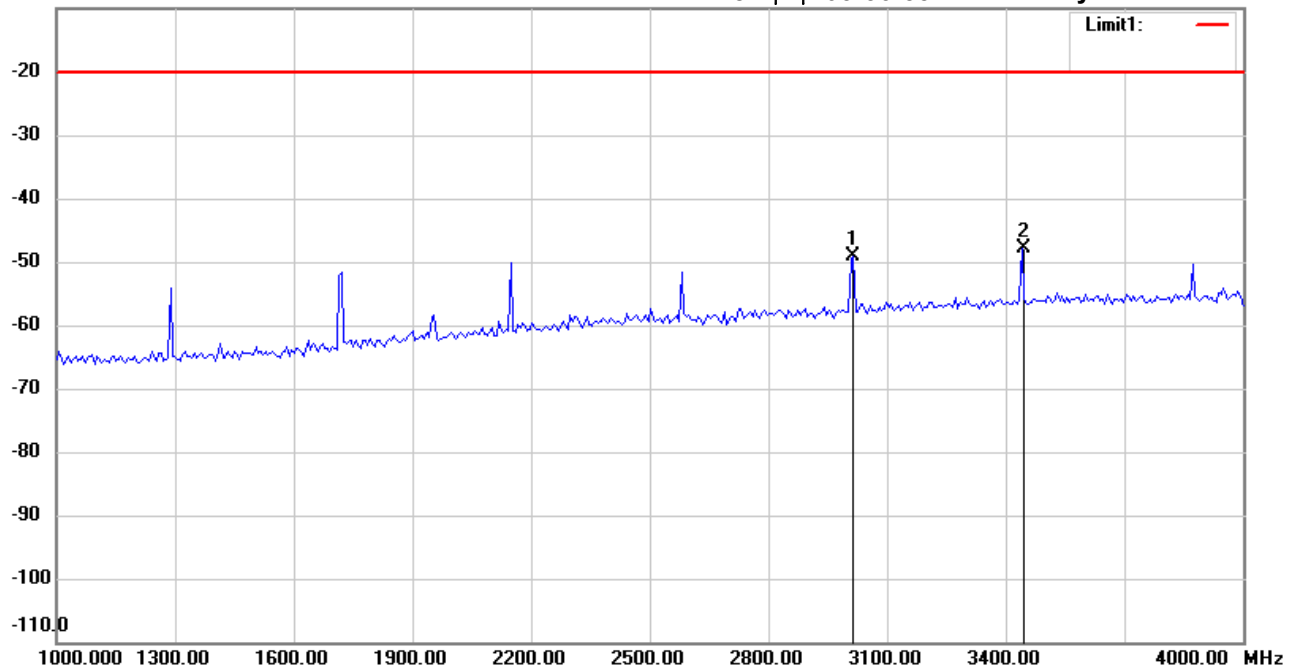
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 03:36:55

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 430MHz

Note :

Polarization: **Horizontal**

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	3014.028	-54.14	peak	5.12	-49.02	-20.00	150	100	-29.02	
*	3440.882	-54.88	peak	7.03	-47.85	-20.00	150	65	-27.85	

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



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Radiated Emission Measurement

Operator: Sora

File :3

Data :#2

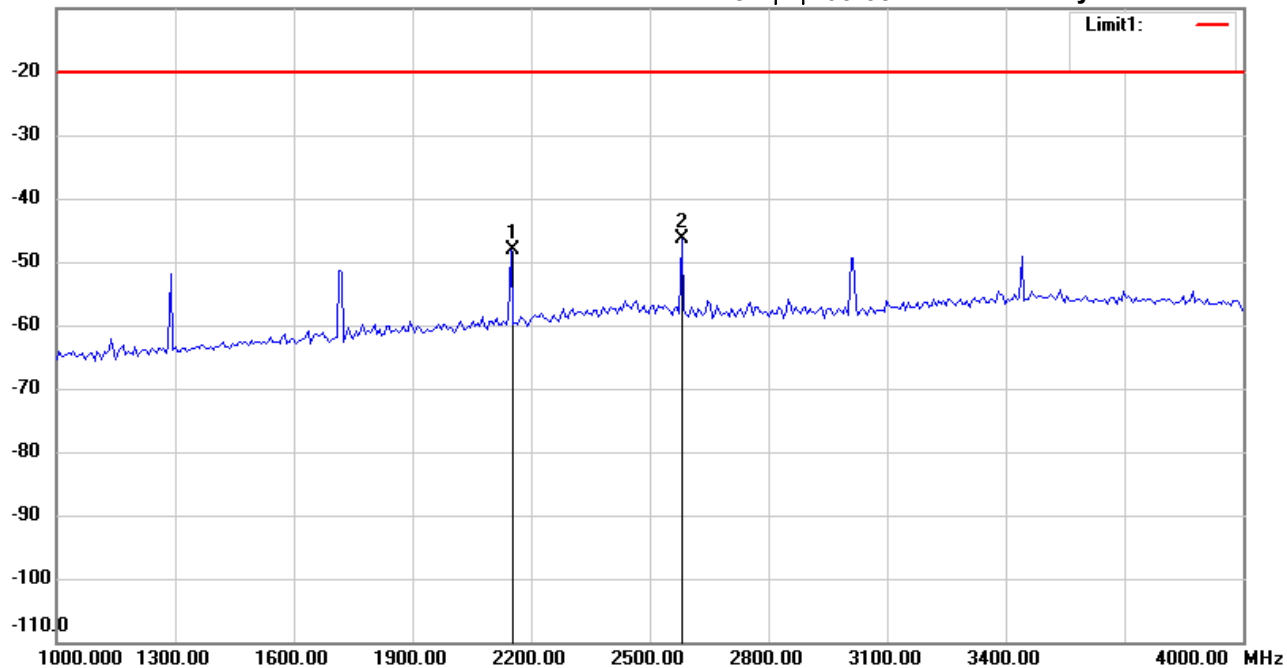
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 03:38:44

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 430MHz

Note :

Polarization: **Vertical**

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2148.297	-51.47	peak	3.24	-48.23	-20.00	150	210	-28.23	
*	2581.162	-51.82	peak	5.38	-46.44	-20.00	150	295	-26.44	

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



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Tel: +886-2-6606-8877
Fax: +886-2-6606-8879

Radiated Emission Measurement

Operator: Sora

File :1

Data :#1

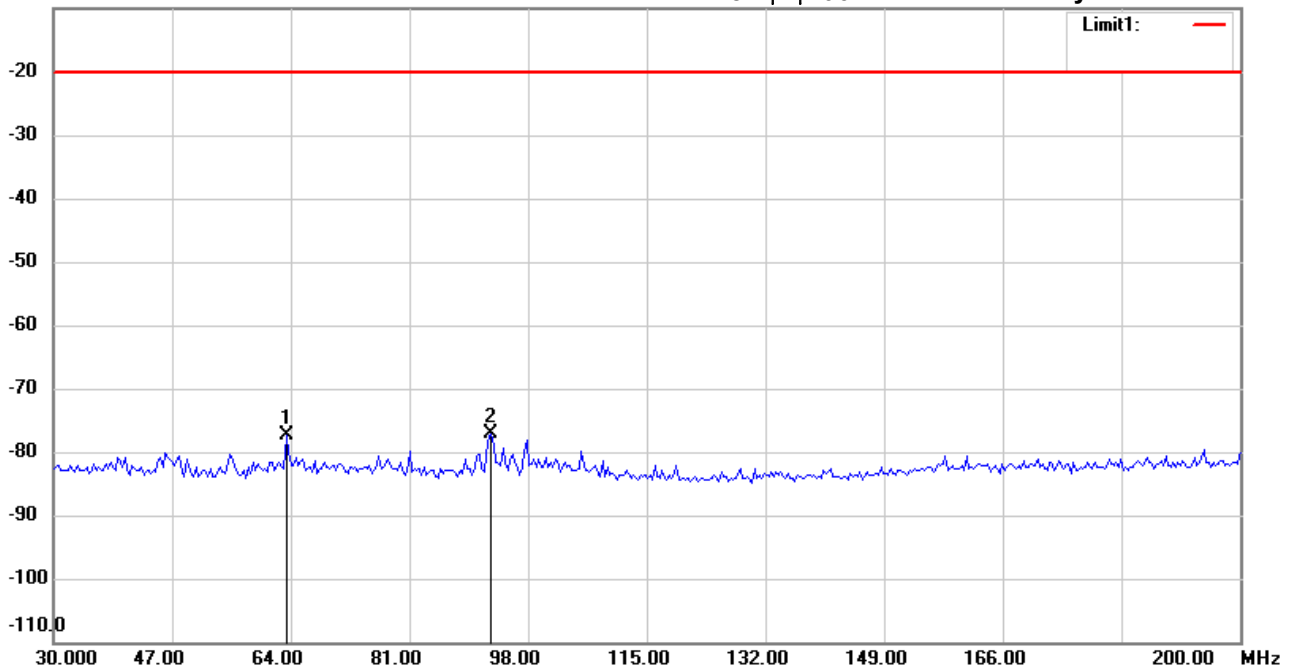
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 06:11:44

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 440MHz

Note :

Polarization: *Horizontal*

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	63.3868	-99.10	peak	21.69	-77.41	-20.00	150	135	-57.41	
*	92.6854	-98.12	peak	21.06	-77.06	-20.00	150	105	-57.06	

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



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Tel: +886-2-6606-8877
Fax: +886-2-6606-8879

Radiated Emission Measurement

Operator: Sora

File :1

Data :#2

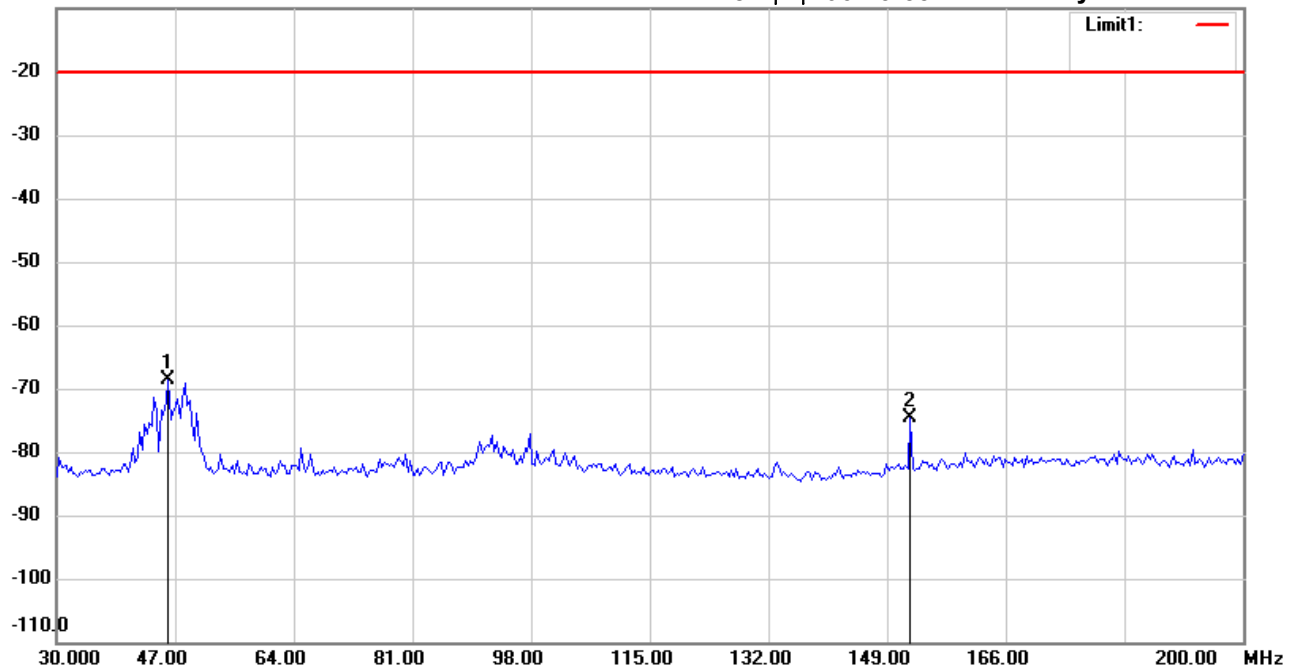
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 06:13:55

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 440MHz

Note :

Polarization: Vertical

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	46.0120	-89.62	peak	21.09	-68.53	-20.00	150	255	-48.53	
	152.3046	-95.83	peak	21.25	-74.58	-20.00	150	310	-54.58	

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



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Tel: +886-2-6606-8877
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Radiated Emission Measurement

Operator: Sora

File : 2

Data : #1

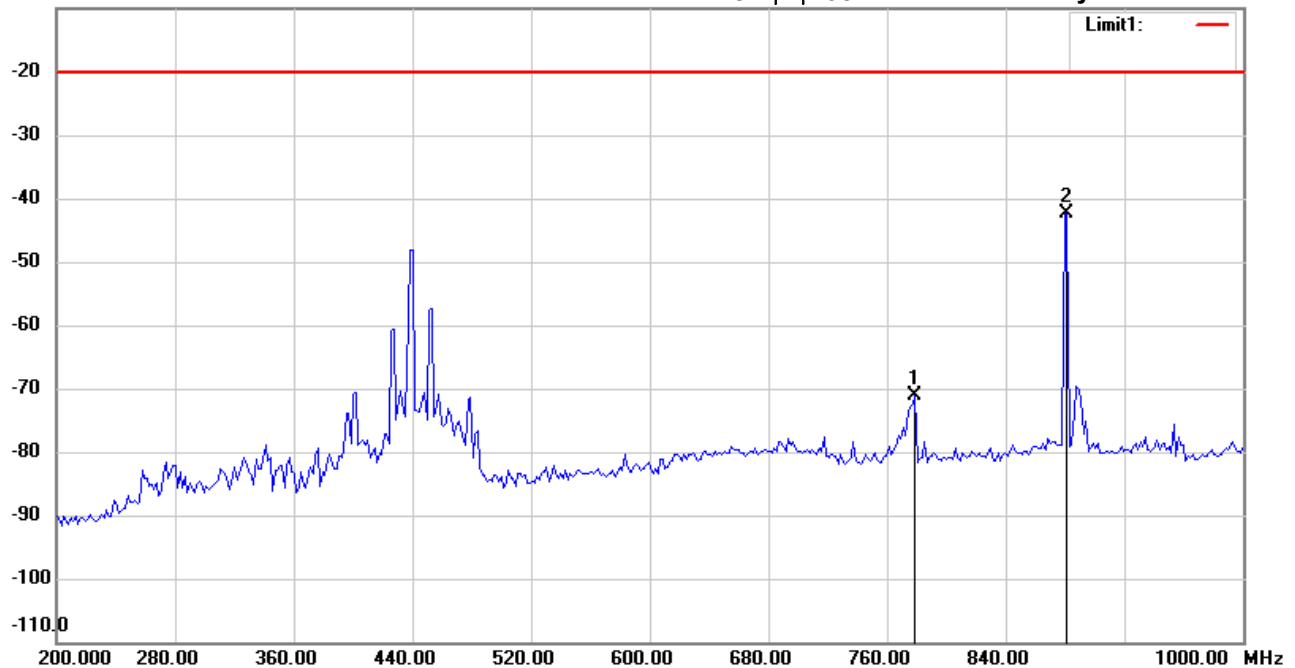
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 05:21:27

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 440MHz

Note :

Polarization: *Horizontal*

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	778.7575	-66.81	peak	-4.38	-71.19	-20.00	150	140	-51.19	
*	881.3627	-40.56	peak	-1.81	-42.37	-20.00	150	155	-22.37	

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



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Radiated Emission Measurement

Operator: Sora

File : 2

Data : #2

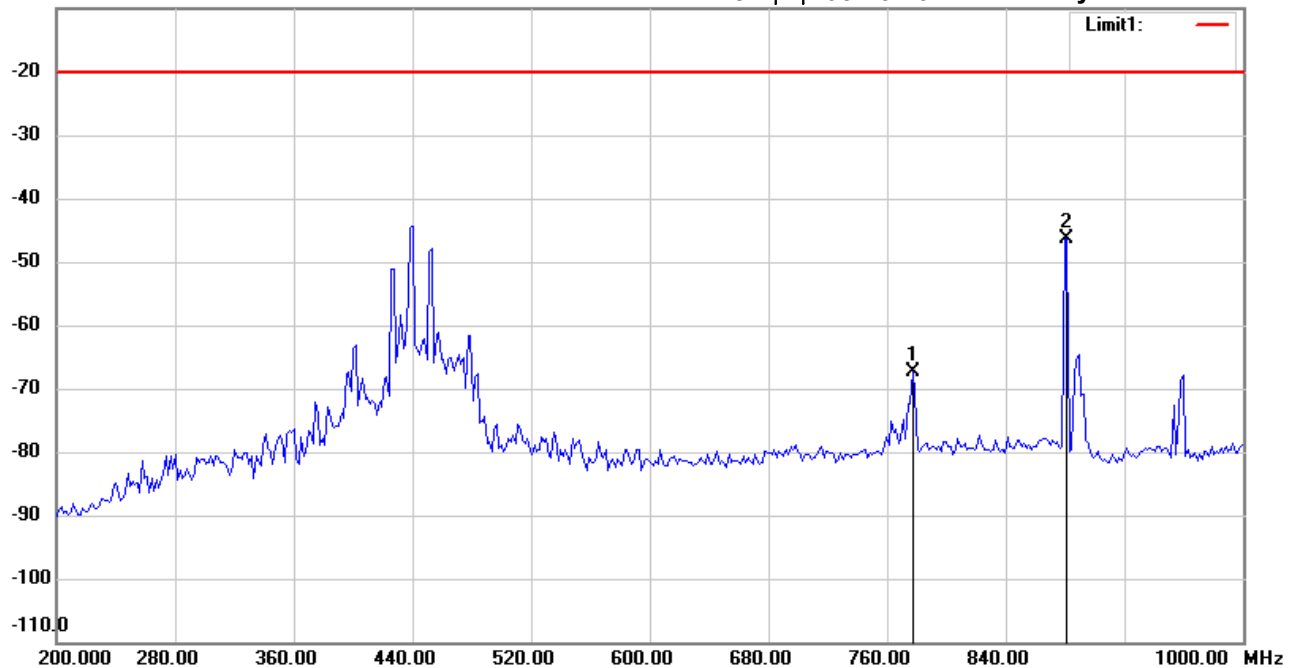
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 05:23:29

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 440MHz

Note :

Polarization: **Vertical**

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	777.1543	-64.31	peak	-3.14	-67.45	-20.00	150	245	-47.45	
*	881.3627	-44.02	peak	-2.38	-46.40	-20.00	150	305	-26.40	

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



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Radiated Emission Measurement

Operator: Sora

File : 3

Data : #1

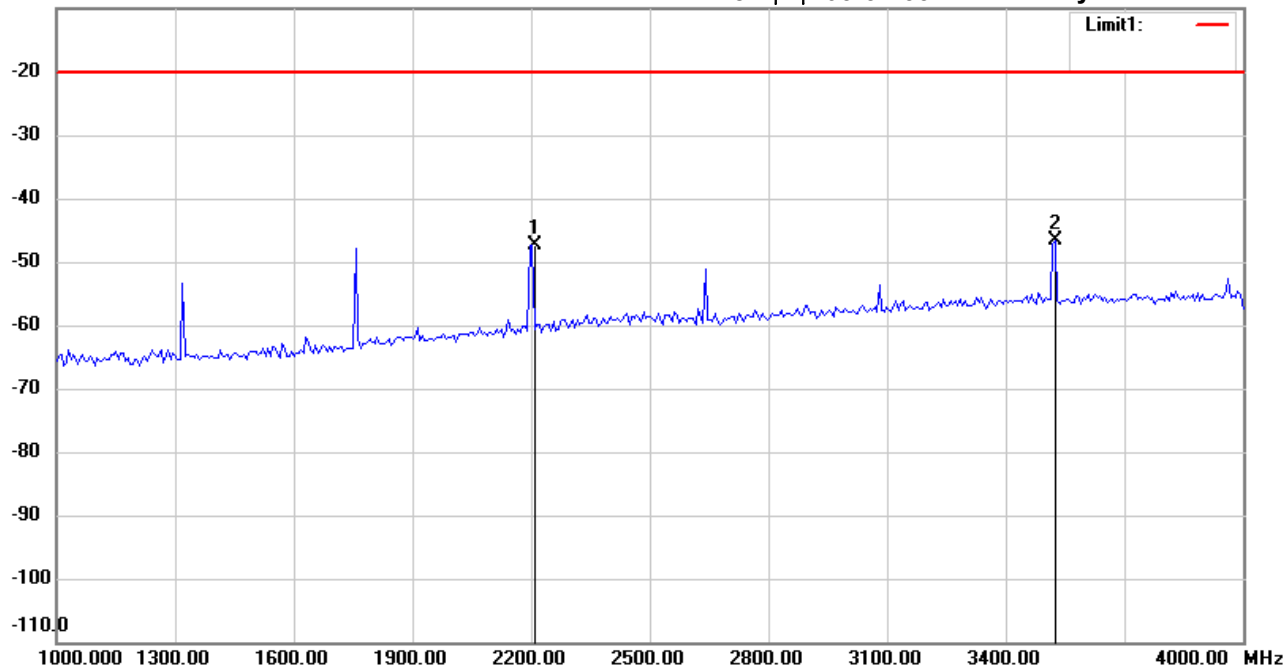
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 03:32:33

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 440MHz

Note :

Polarization: *Horizontal*

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2202.405	-49.63	peak	2.20	-47.43	-20.00	150	315	-27.43	
*	3525.050	-53.92	peak	7.33	-46.59	-20.00	150	210	-26.59	

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



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Radiated Emission Measurement

Operator: Sora

File : 3

Data : #2

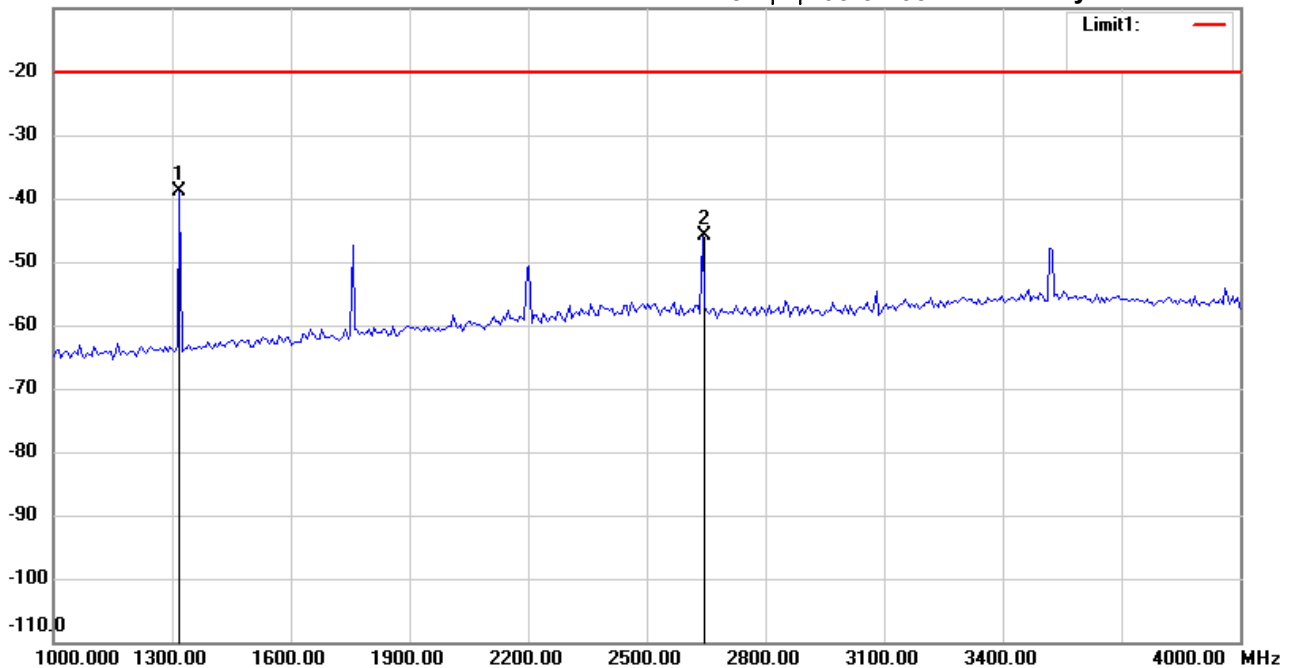
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 03:34:38

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 440MHz

Note :

Polarization: Vertical

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1318.637	-38.02	peak	-0.79	-38.81	-20.00	150	280	-18.81	
	2641.283	-51.12	peak	5.35	-45.77	-20.00	150	185	-25.77	

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



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Tel: +886-2-6606-8877
Fax: +886-2-6606-8879

Radiated Emission Measurement

Operator: Sora

File :1

Data :#1

Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 06:15:20

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 455MHz

Note :

Polarization: *Horizontal*

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	62.7054	-99.67	peak	21.71	-77.96	-20.00	150	110	-57.96	
*	92.0040	-94.87	peak	21.01	-73.86	-20.00	150	60	-53.86	

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



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: Sora

File :1

Data :#2

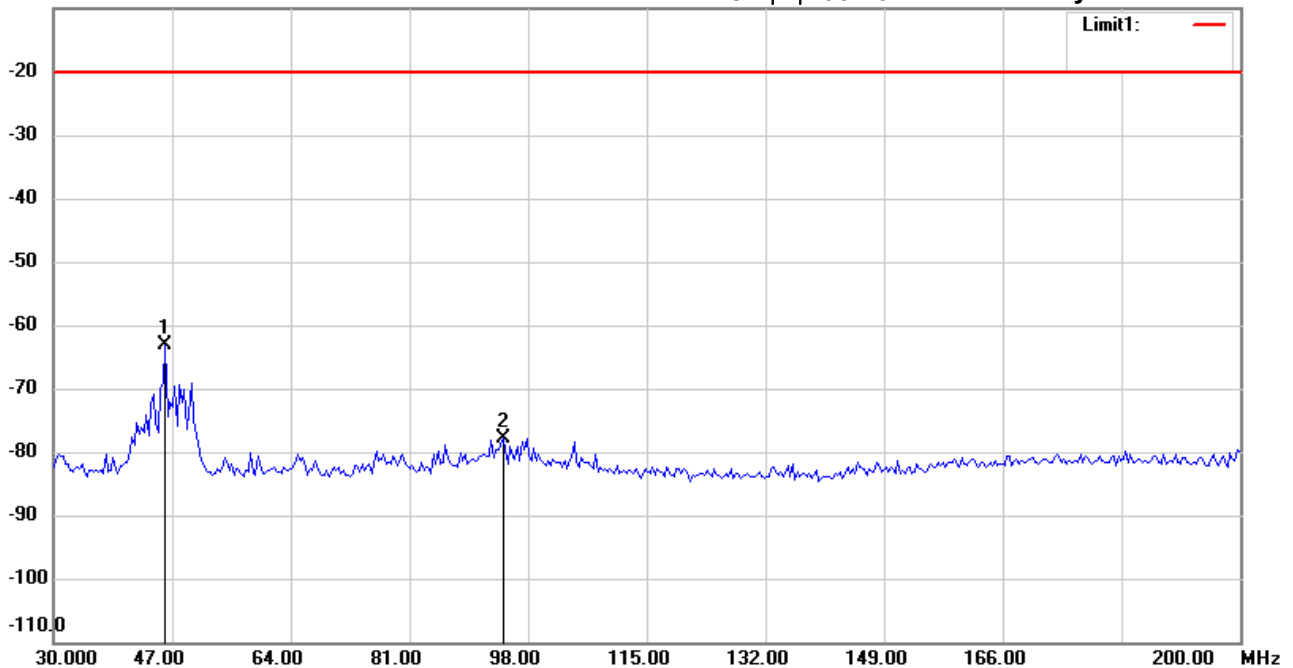
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 06:16:27

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 455MHz

Note :

Polarization: Vertical

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	46.0120	-84.22	peak	21.09	-63.13	-20.00	150	55	-43.13	
	94.3888	-99.64	peak	21.71	-77.93	-20.00	150	230	-57.93	

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



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Tel: +886-2-6606-8877
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Radiated Emission Measurement

Operator: Sora

File : 2

Data : #1

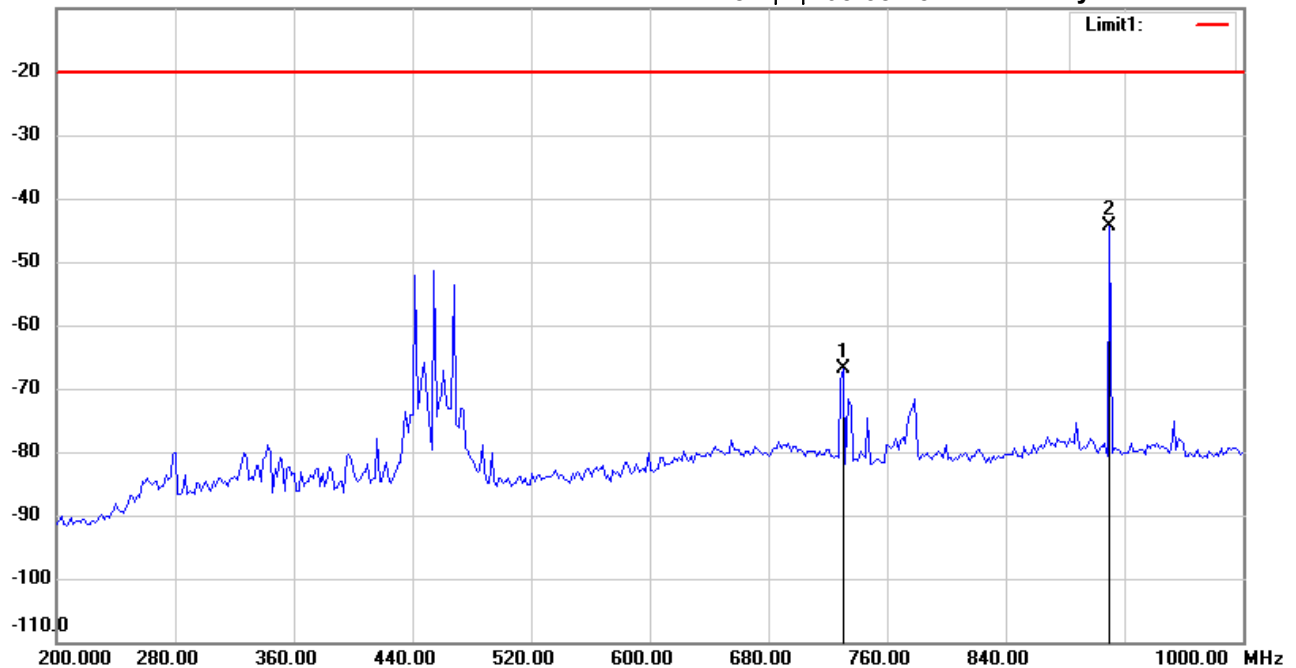
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 05:38:25

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 455MHz

Note :

Polarization: *Horizontal*

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	730.6613	-62.98	peak	-3.86	-66.84	-20.00	150	80	-46.84	
*	910.2204	-42.74	peak	-1.67	-44.41	-20.00	150	140	-24.41	

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



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Radiated Emission Measurement

Operator: Sora

File : 2

Data : #2

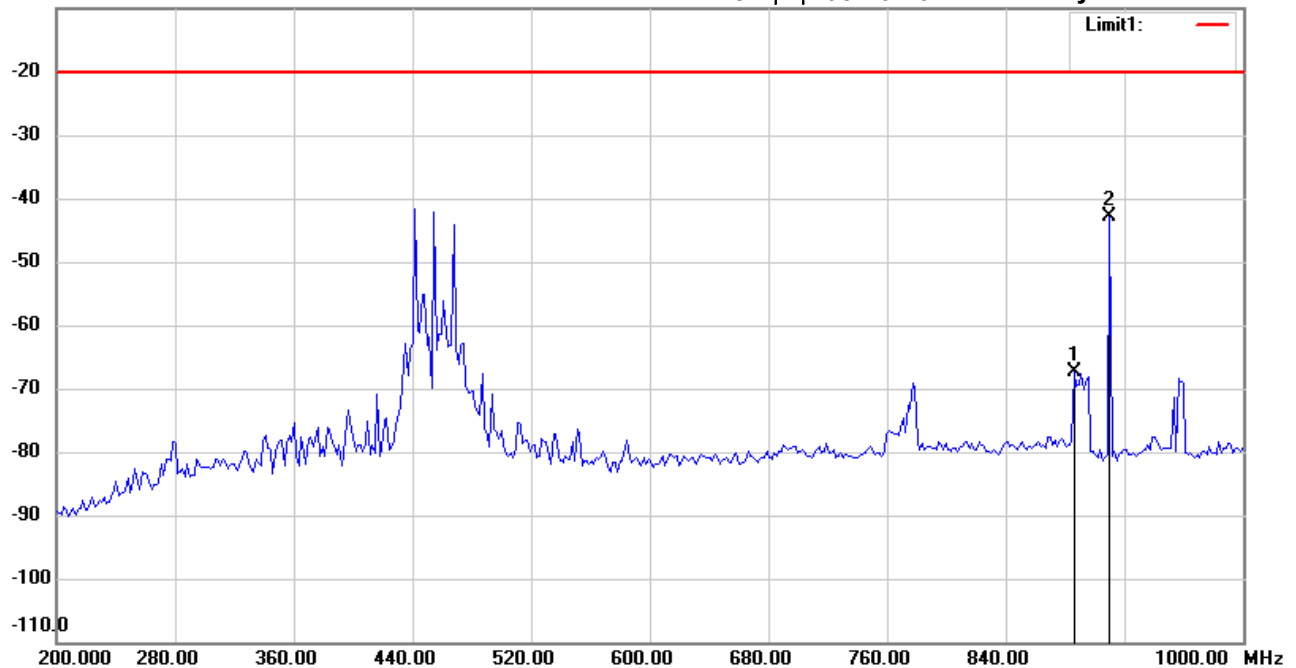
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 05:40:10

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 455MHz

Note :

Polarization: Vertical

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	886.1723	-64.93	peak	-2.49	-67.42	-20.00	150	135	-47.42	
*	910.2204	-40.09	peak	-2.82	-42.91	-20.00	150	210	-22.91	

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



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

Operator: Sora

File : 3

Data : #1

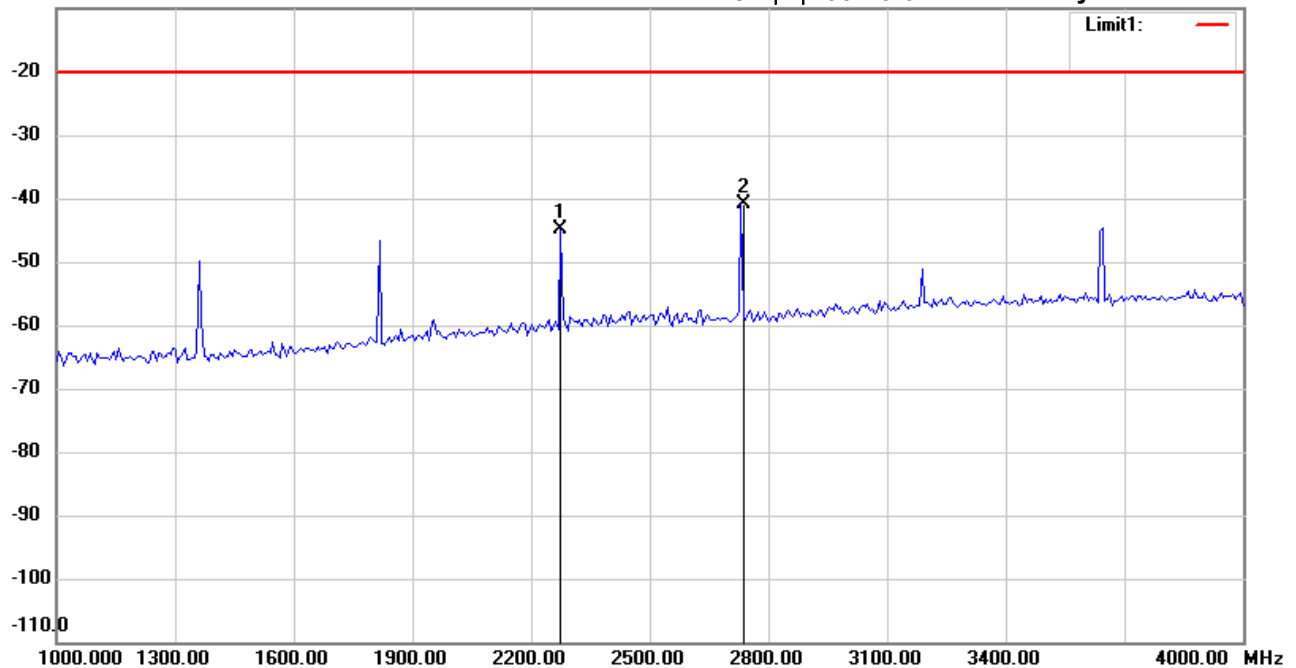
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 03:26:07

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 455MHz

Note :

Polarization: *Horizontal*

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2274.549	-47.57	peak	2.59	-44.98	-20.00	150	150	-24.98	
*	2731.463	-45.23	peak	4.38	-40.85	-20.00	150	235	-20.85	

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



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Radiated Emission Measurement

Operator: Sora

File :3

Data :#2

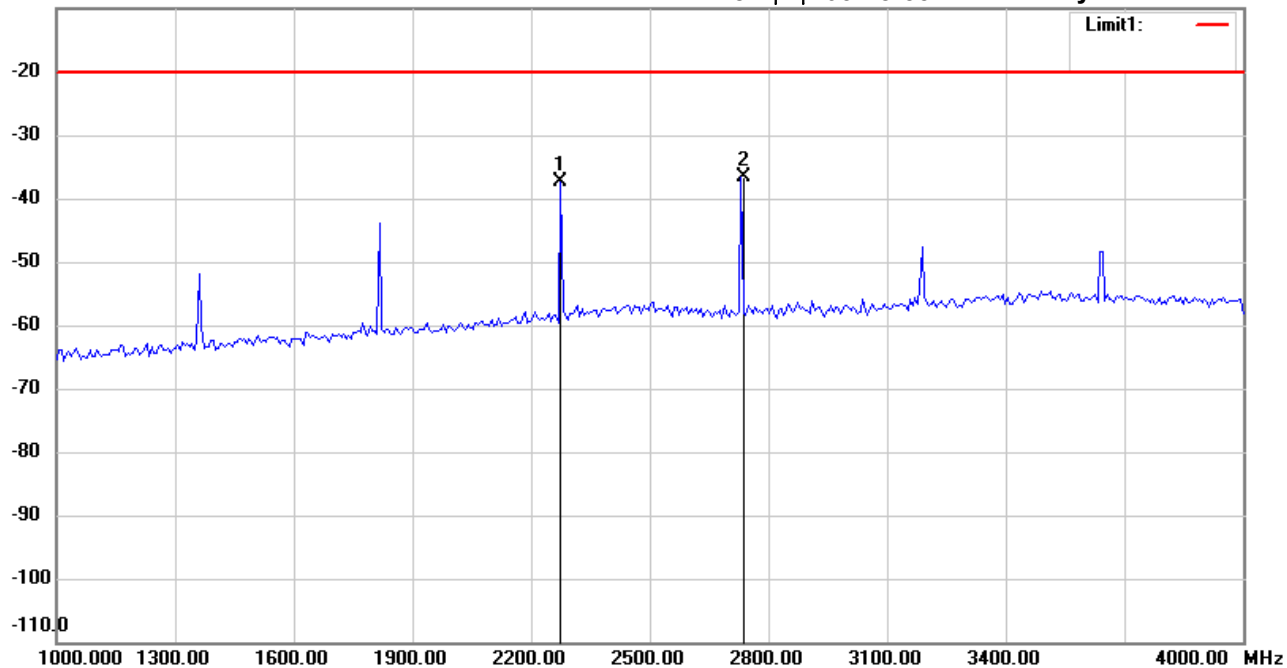
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 03:28:55

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 455MHz

Note :

Polarization: **Vertical**

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2274.549	-41.30	peak	4.02	-37.28	-20.00	150	75	-17.28	
*	2731.463	-41.80	peak	5.30	-36.50	-20.00	150	110	-16.50	

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



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Radiated Emission Measurement

Operator: Sora

File :1

Data :#1

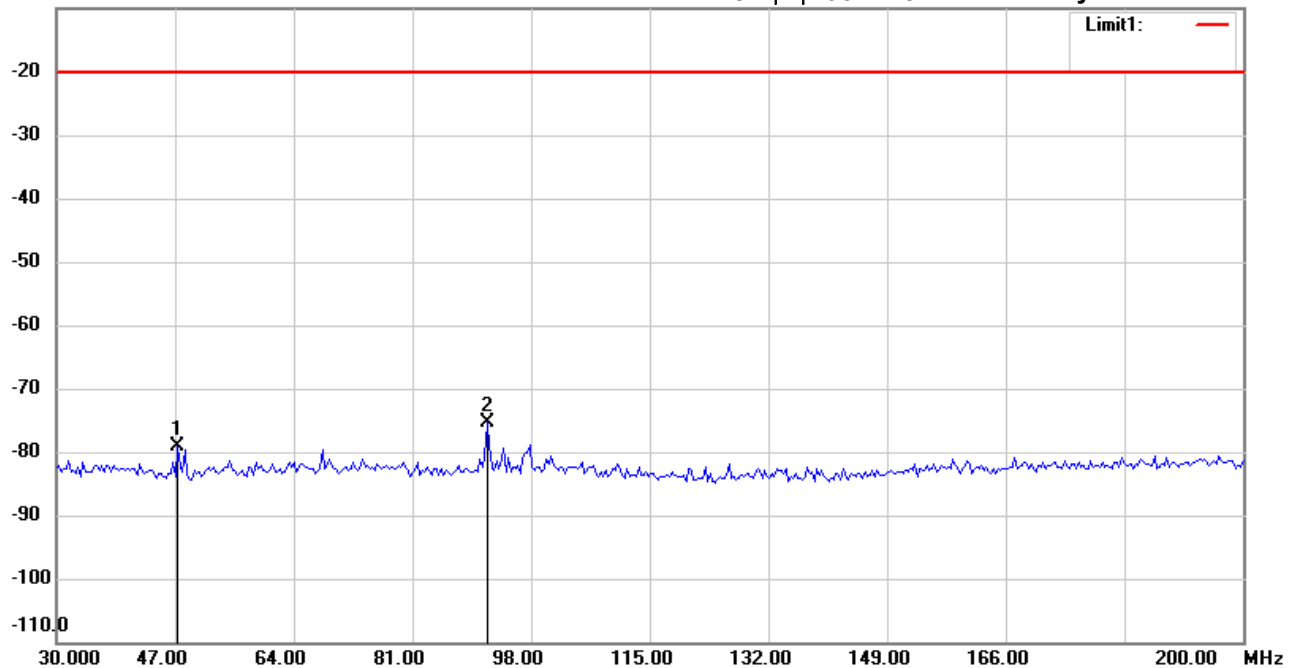
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 06:17:51

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 470MHz

Note :

Polarization: *Horizontal*

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	47.3746	-100.56	peak	21.48	-79.08	-20.00	150	105	-59.08	
*	91.6633	-96.33	peak	20.98	-75.35	-20.00	150	40	-55.35	

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



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Radiated Emission Measurement

Operator: Sora

File :1

Data :#2

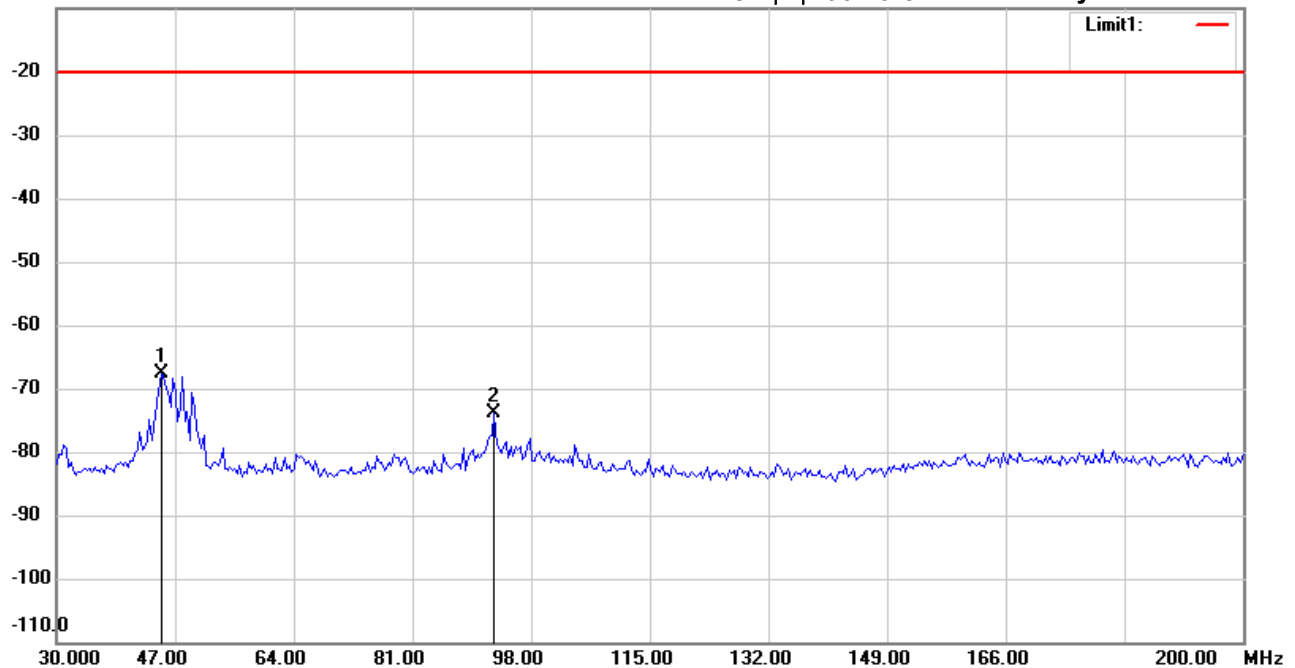
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 06:19:31

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 470MHz

Note :

Polarization: Vertical

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	44.9900	-88.54	peak	21.04	-67.50	-20.00	150	290	-47.50	
	92.6854	-95.51	peak	21.72	-73.79	-20.00	150	245	-53.79	

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



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Radiated Emission Measurement

Operator: Sora

File : 2

Data : #1

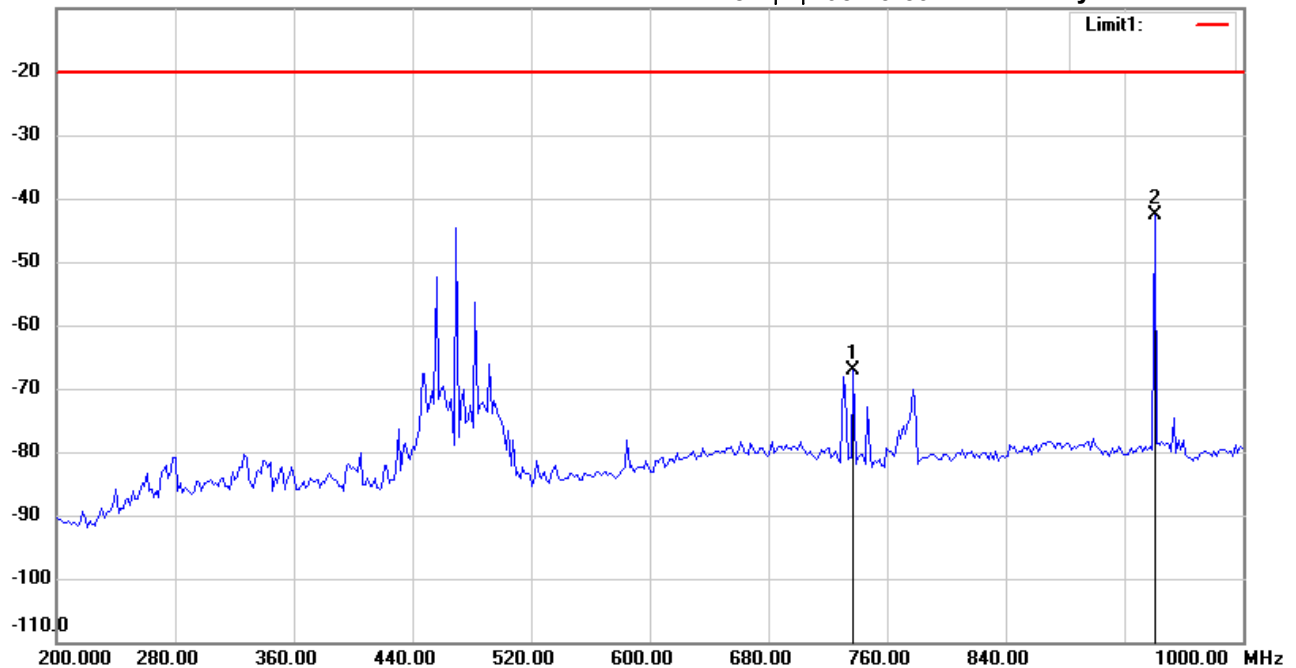
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 05:43:59

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 470MHz

Note :

Polarization: *Horizontal*

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	737.0741	-63.04	peak	-4.13	-67.17	-20.00	150	155	-47.17	
*	940.6814	-40.05	peak	-2.69	-42.74	-20.00	150	140	-22.74	

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



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Radiated Emission Measurement

Operator: Sora

File : 2

Data : #2

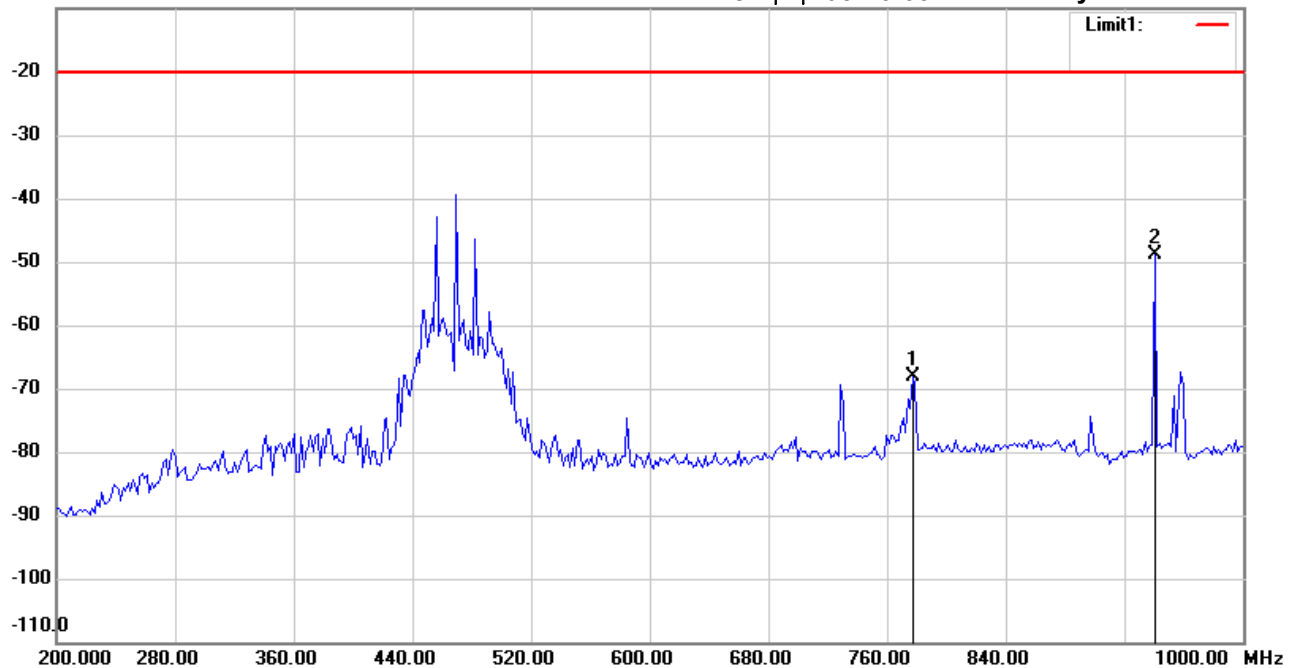
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 05:46:03

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 470MHz

Note :

Polarization: Vertical

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	777.1543	-65.07	peak	-3.14	-68.21	-20.00	150	240	-48.21	
*	940.6814	-46.09	peak	-2.90	-48.99	-20.00	150	65	-28.99	

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



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Radiated Emission Measurement

Operator: Sora

File : 3

Data : #1

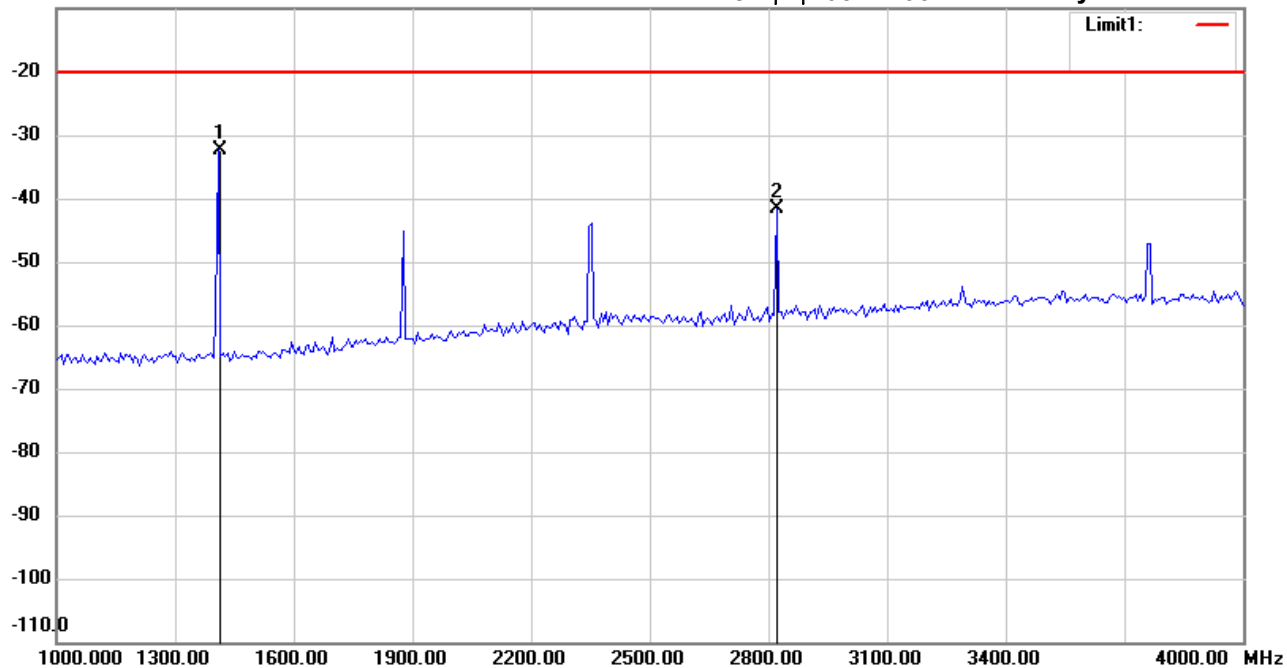
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 03:21:06

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 470MHz

Note :

Polarization: *Horizontal*

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1408.818	-30.08	peak	-2.19	-32.27	-20.00	150	135	-12.27	
	2821.643	-46.19	peak	4.61	-41.58	-20.00	150	195	-21.58	

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



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Radiated Emission Measurement

Operator: Sora

File :3

Data :#2

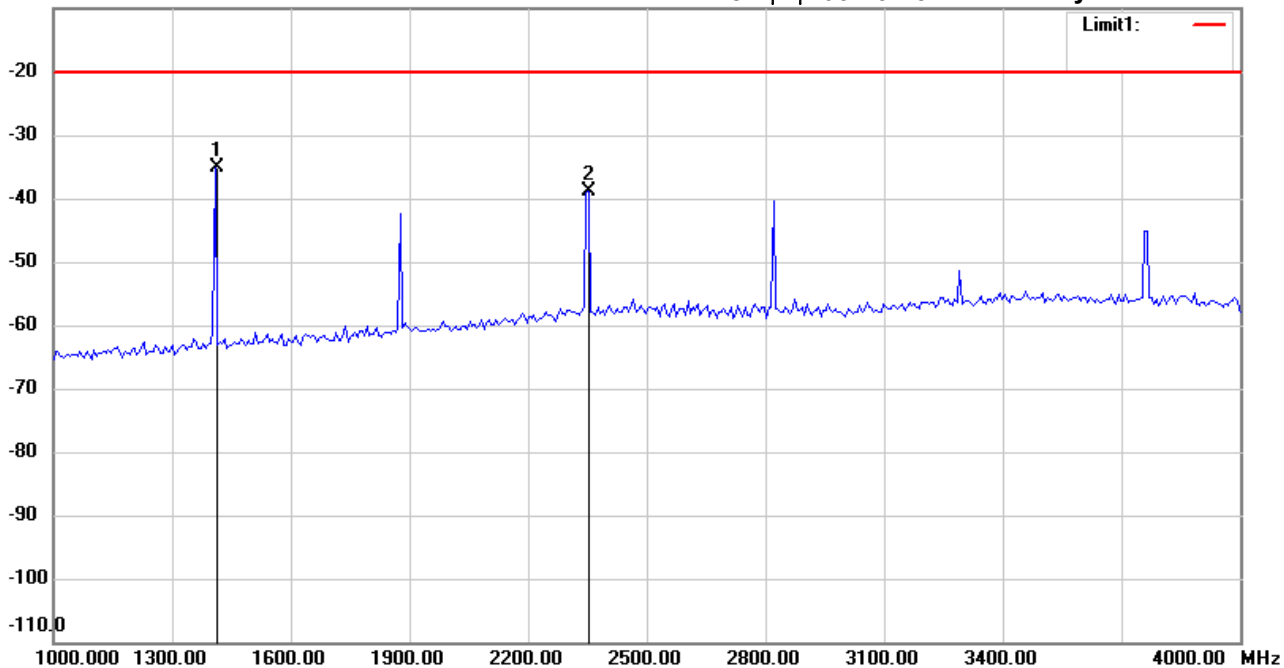
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 03:23:45

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 470MHz

Note :

Polarization: *Vertical*

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1408.818	-34.65	peak	-0.52	-35.17	-20.00	150	240	-15.17	
	2352.705	-43.37	peak	4.51	-38.86	-20.00	150	310	-18.86	

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



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Radiated Emission Measurement

Operator: Sora

File :1

Data :#1

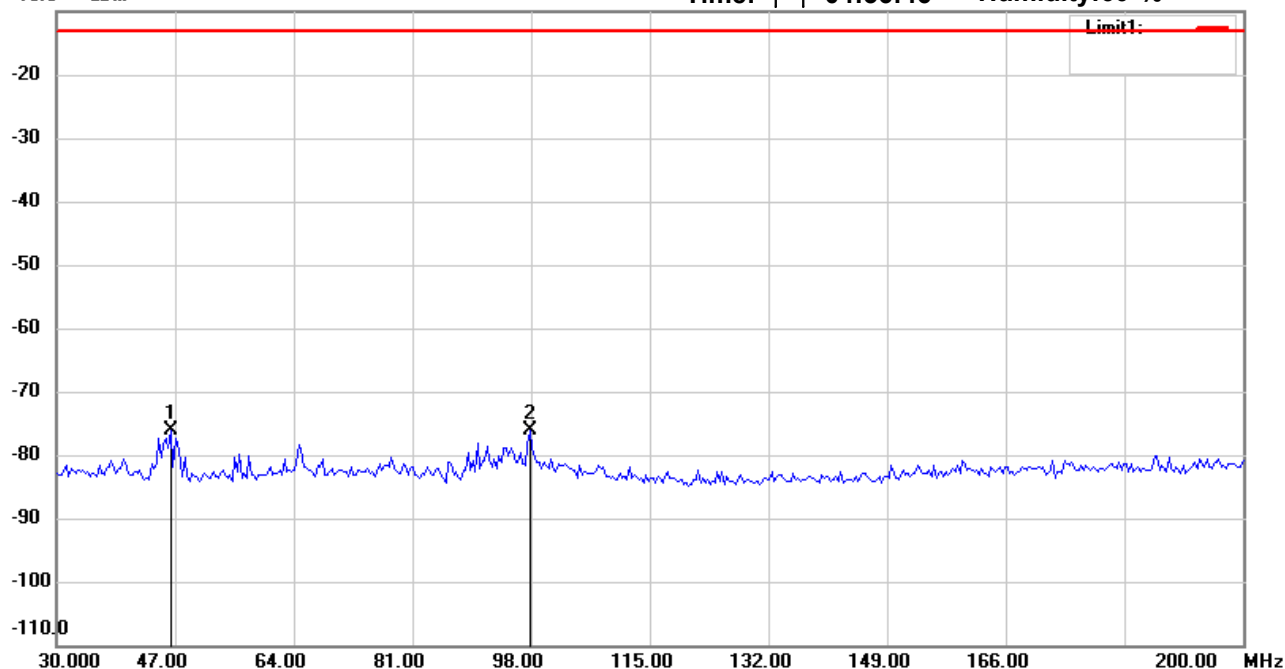
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 04:36:46

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 406MHz

Note :

Polarization: *Horizontal*

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	46.3527	-97.75	peak	21.54	-76.21	-13.00	150	75	-63.21	
	97.7956	-97.67	peak	21.44	-76.23	-13.00	150	40	-63.23	

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



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Radiated Emission Measurement

Operator: Sora

File :1

Data :#2

Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 04:38:20

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 406MHz

Note :

Polarization: **Vertical**

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	46.0120	-83.04	peak	21.09	-61.95	-13.00	150	280	-48.95	
	91.6633	-96.41	peak	21.72	-74.69	-13.00	150	245	-61.69	

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



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Radiated Emission Measurement

Operator: Sora

File : 2

Data : #1

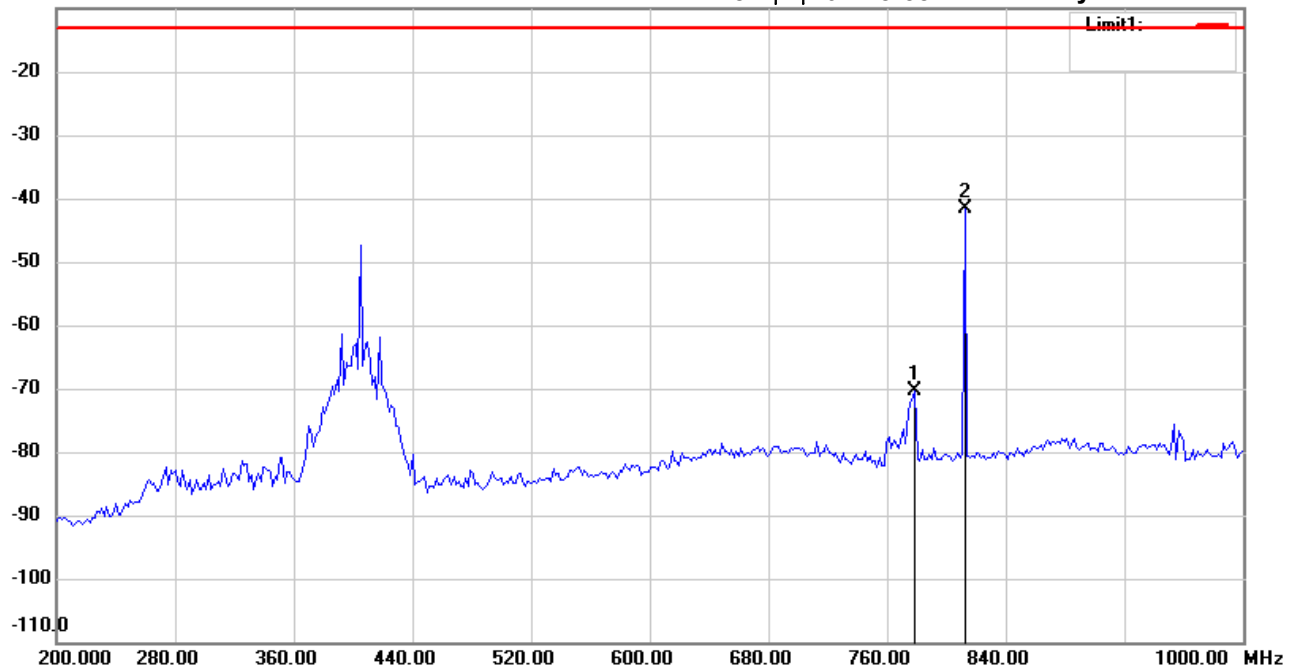
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 04:48:58

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 406MHz

Note :

Polarization: *Horizontal*

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	778.7575	-66.10	peak	-4.38	-70.48	-13.00	150	65	-57.48	
*	812.4248	-37.94	peak	-3.78	-41.72	-13.00	150	275	-28.72	

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



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Radiated Emission Measurement

Operator: Sora

File : 2

Data : #2

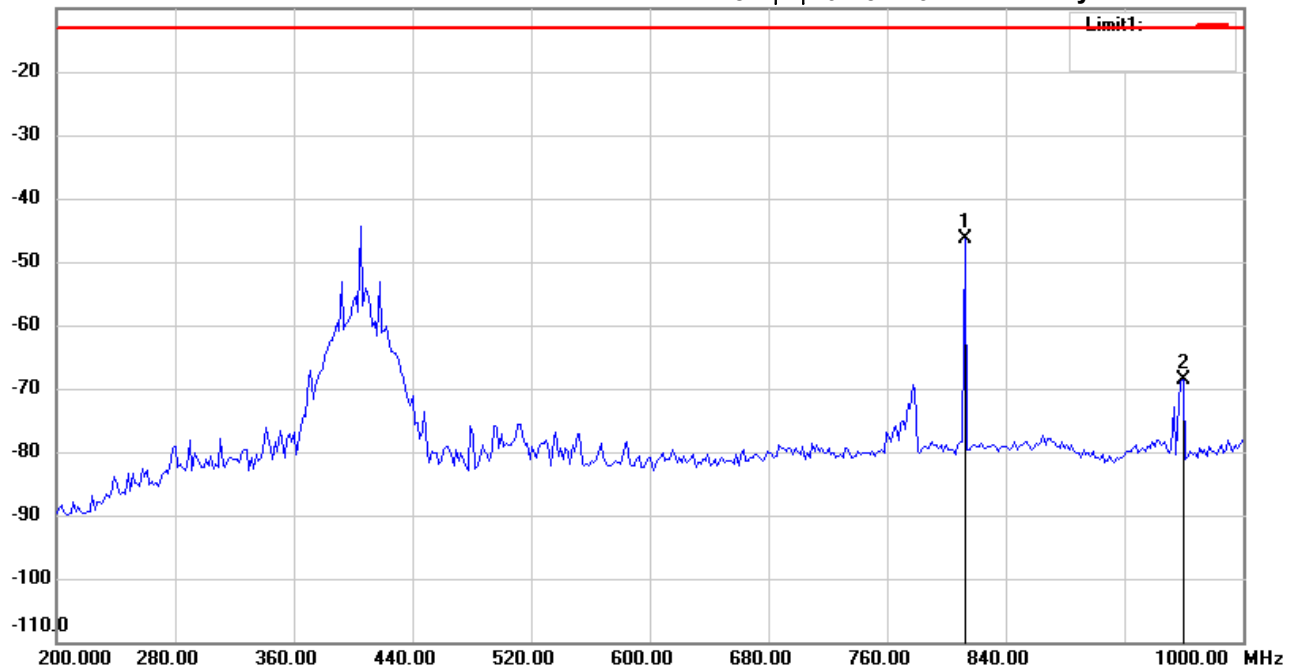
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 04:51:29

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 406MHz

Note :

Polarization: Vertical

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	812.4248	-44.01	peak	-2.46	-46.47	-13.00	150	155	-33.47	
	959.9198	-65.76	peak	-2.88	-68.64	-13.00	150	240	-55.64	

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



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Radiated Emission Measurement

Operator: Sora

File : 3

Data : #1

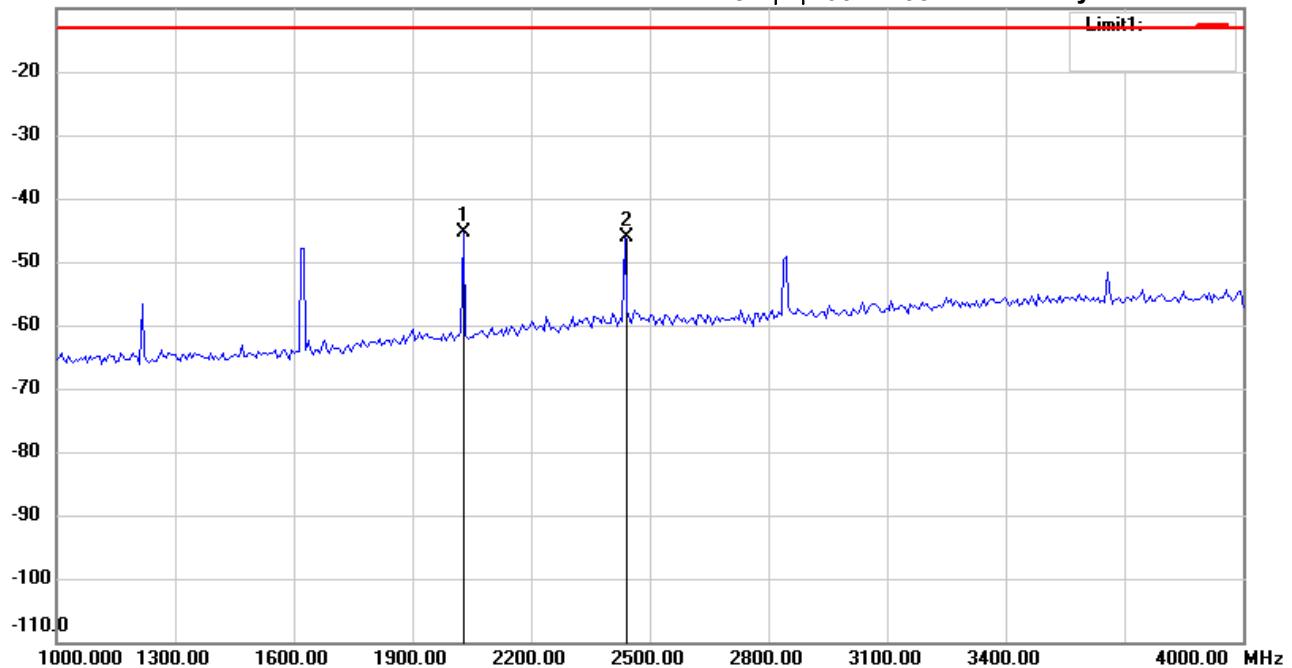
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 03:14:38

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 406MHz

Note :

Polarization: *Horizontal*

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	2028.056	-46.59	peak	1.26	-45.33	-13.00	150	155	-32.33	
	2436.874	-49.57	peak	3.46	-46.11	-13.00	150	95	-33.11	

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



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Radiated Emission Measurement

Operator: Sora

File :3

Data :#2

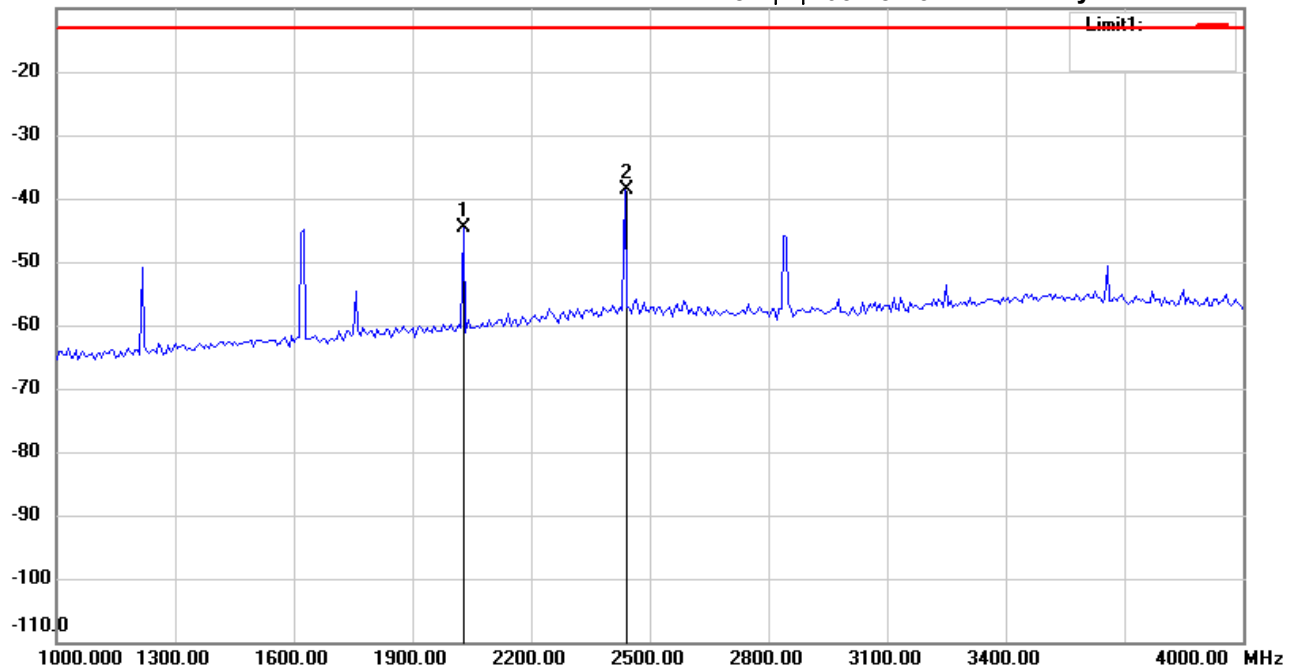
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 03:18:13

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 406MHz

Note :

Polarization: **Vertical**

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2028.056	-47.11	peak	2.49	-44.62	-13.00	150	45	-31.62	
*	2436.874	-43.56	peak	5.04	-38.52	-13.00	150	115	-25.52	

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



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Radiated Emission Measurement

Operator: Sora

File :1

Data :#1

Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 04:33:10

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 418MHz

Note :

Polarization: *Horizontal*

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	43.6273	-99.67	peak	21.70	-77.97	-13.00	150	35	-64.97	
*	92.6854	-98.62	peak	21.06	-77.56	-13.00	150	155	-64.56	

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



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Radiated Emission Measurement

Operator: Sora

File :1

Data :#2

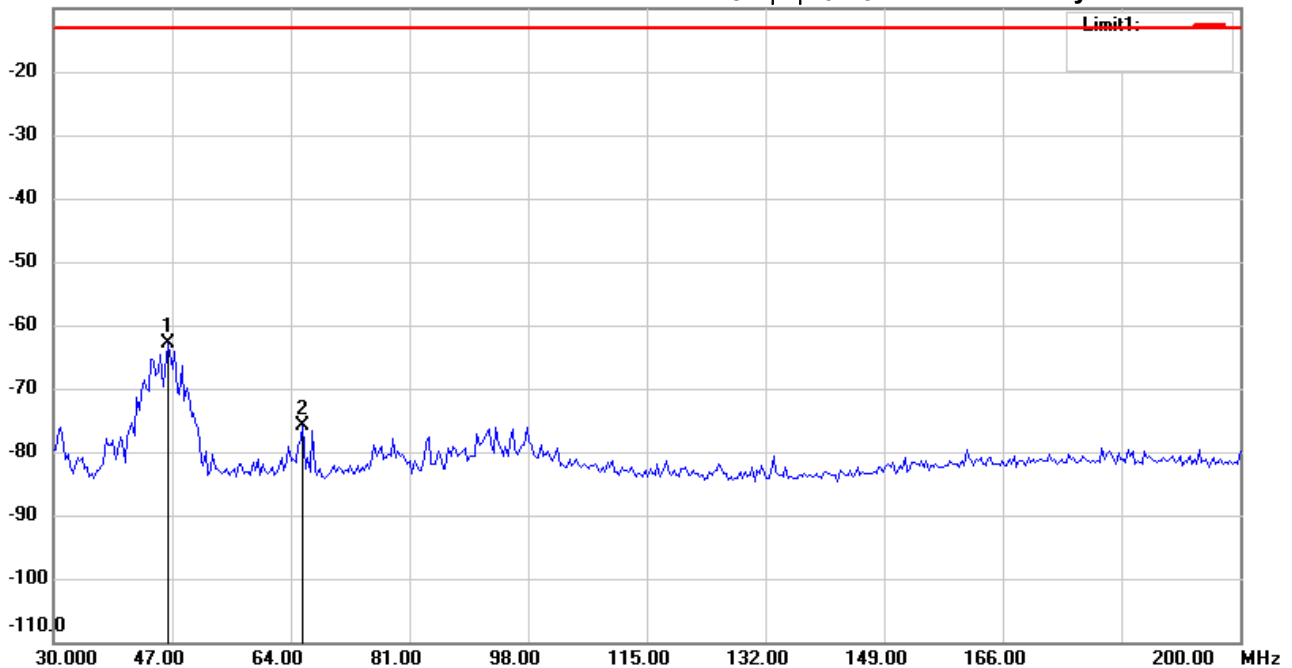
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 04:34:42

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 418MHz

Note :

Polarization: Vertical

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	46.3527	-84.02	peak	21.11	-62.91	-13.00	150	335	-49.91	
	65.7715	-97.07	peak	21.24	-75.83	-13.00	150	275	-62.83	

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



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Radiated Emission Measurement

Operator: Sora

File :1

Data :#1

Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 04:33:10

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 418MHz

Note :

Polarization: *Horizontal*

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	43.6273	-99.67	peak	21.70	-77.97	-13.00	150	35	-64.97	
*	92.6854	-98.62	peak	21.06	-77.56	-13.00	150	155	-64.56	

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



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Radiated Emission Measurement

Operator: Sora

File :1

Data :#2

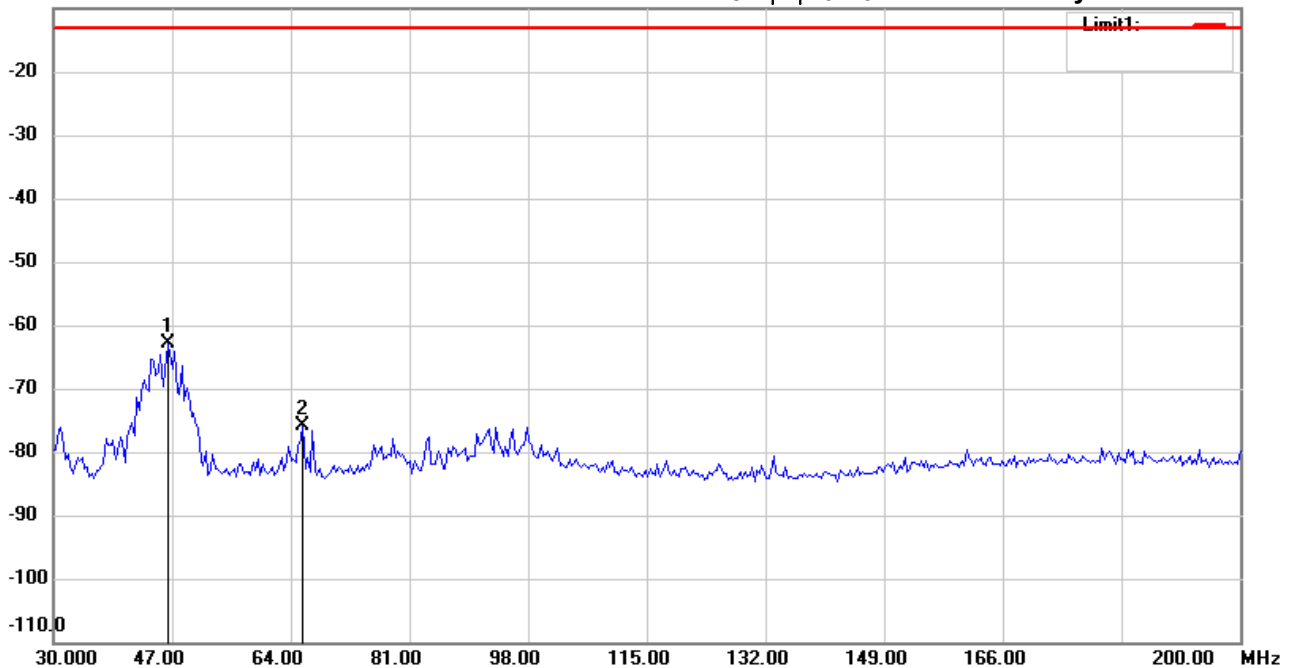
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 04:34:42

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 418MHz

Note :

Polarization: **Vertical**

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	46.3527	-84.02	peak	21.11	-62.91	-13.00	150	335	-49.91	
	65.7715	-97.07	peak	21.24	-75.83	-13.00	150	275	-62.83	

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



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Radiated Emission Measurement

Operator: Sora

File : 3

Data : #1

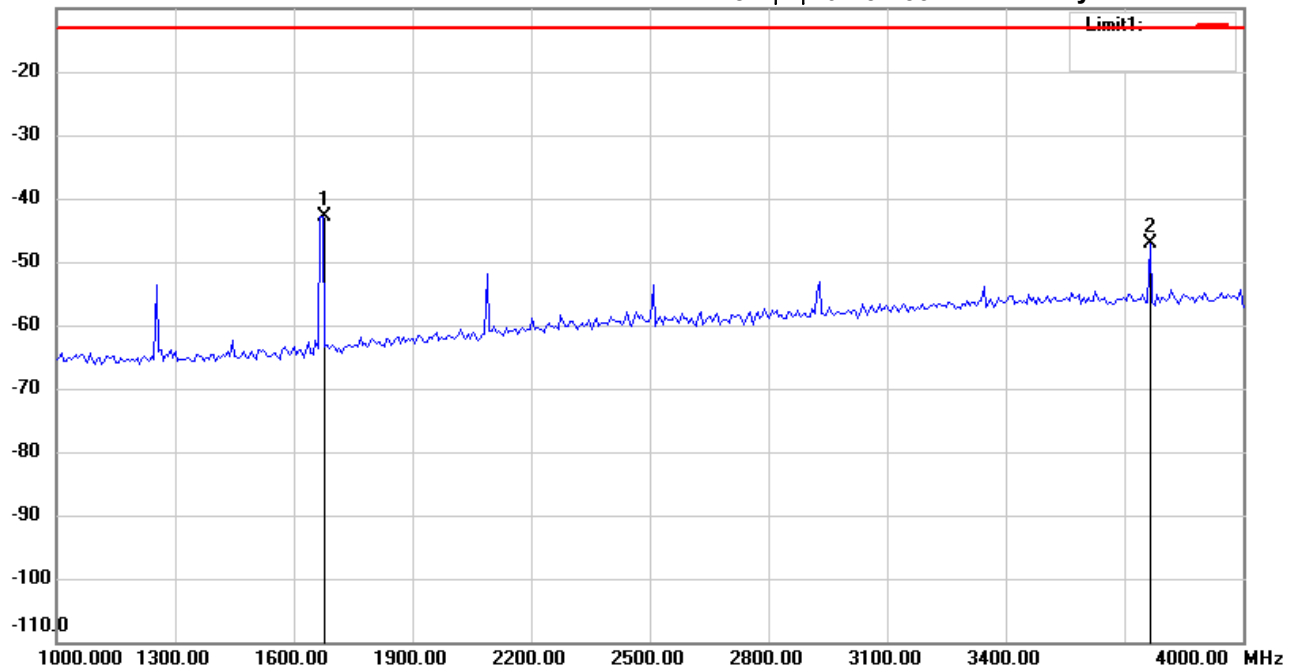
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 01:54:53

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 418MHz

Note :

Polarization: *Horizontal*

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1673.347	-41.74	peak	-1.05	-42.79	-13.00	150	105	-29.79	
	3765.531	-54.77	peak	7.67	-47.10	-13.00	150	165	-34.10	

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



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Radiated Emission Measurement

Operator: Sora

File : 3

Data : #2

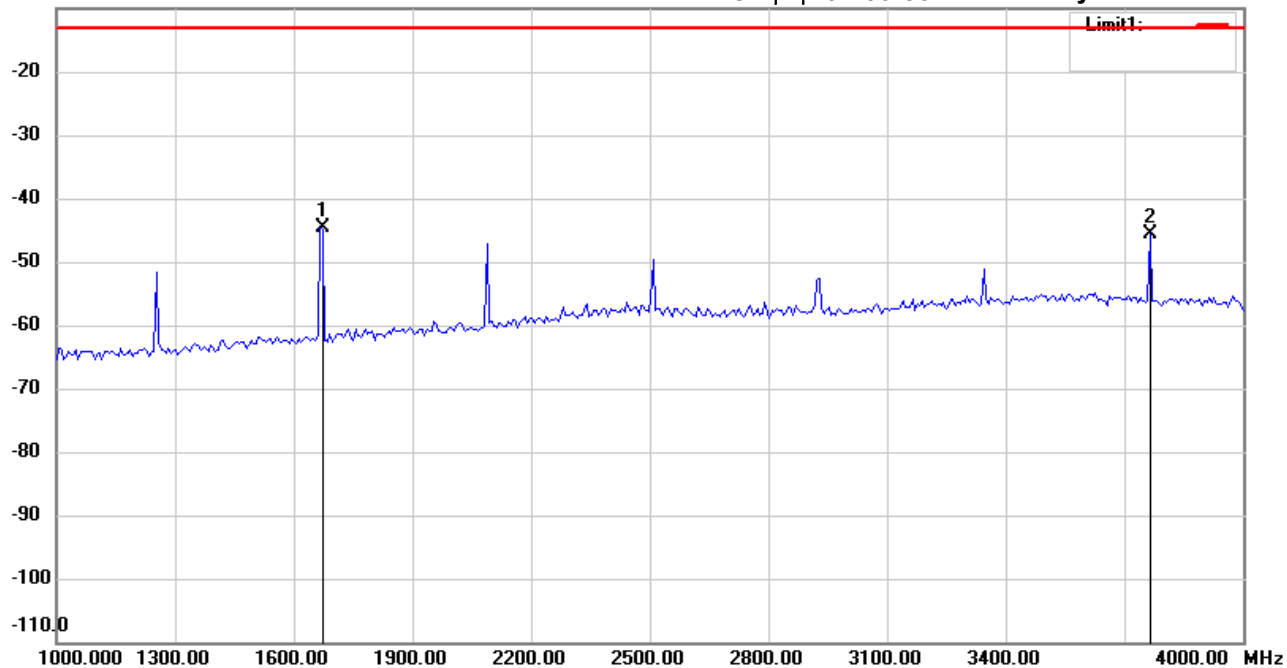
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 02:00:56

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 418MHz

Note :

Polarization: Vertical

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1667.335	-45.30	peak	0.61	-44.69	-13.00	150	285	-31.69	
	3765.531	-53.16	peak	7.45	-45.71	-13.00	150	210	-32.71	

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



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Radiated Emission Measurement

Operator: Sora

File :1

Data :#1

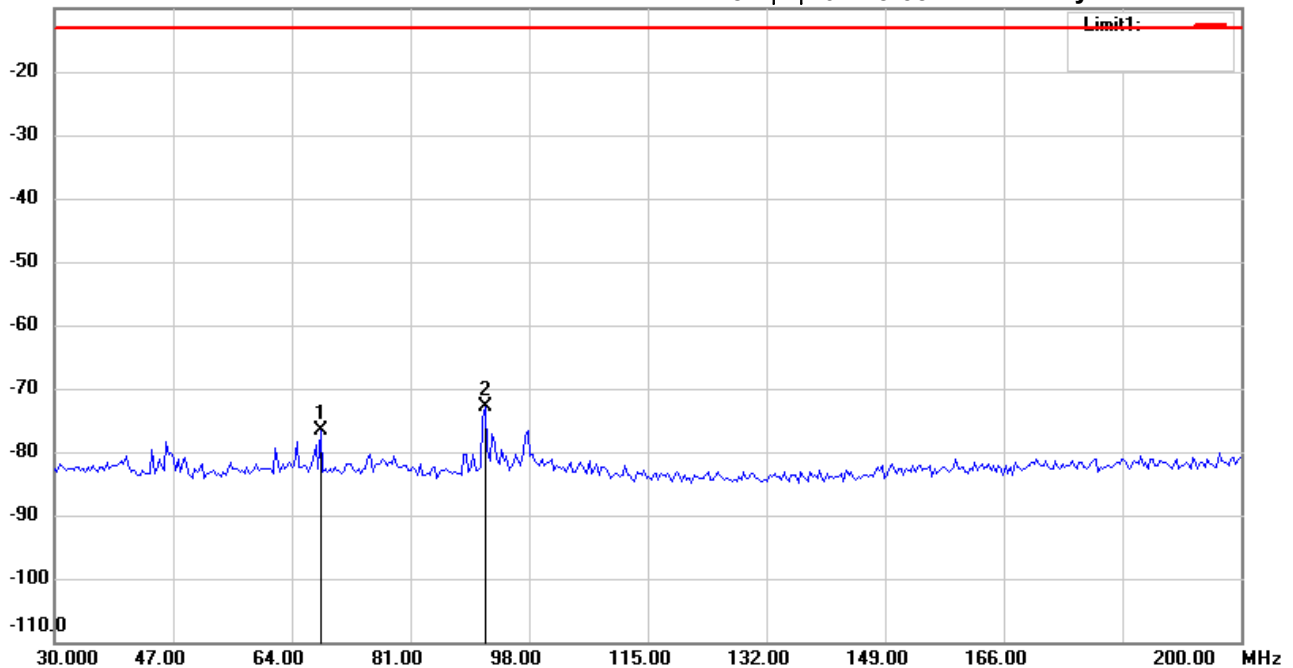
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 04:28:38

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 430MHz

Note :

Polarization: *Horizontal*

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	68.1563	-98.11	peak	21.55	-76.56	-13.00	150	160	-63.56	
*	91.6633	-93.74	peak	20.98	-72.76	-13.00	150	145	-59.76	

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



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Radiated Emission Measurement

Operator: Sora

File :1

Data :#2

Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 04:30:27

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 430MHz

Note :

Polarization: Vertical

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	46.0120	-84.31	peak	21.09	-63.22	-13.00	150	315	-50.22	
	92.3447	-98.66	peak	21.72	-76.94	-13.00	150	285	-63.94	

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



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Radiated Emission Measurement

Operator: Sora

File : 2

Data : #1

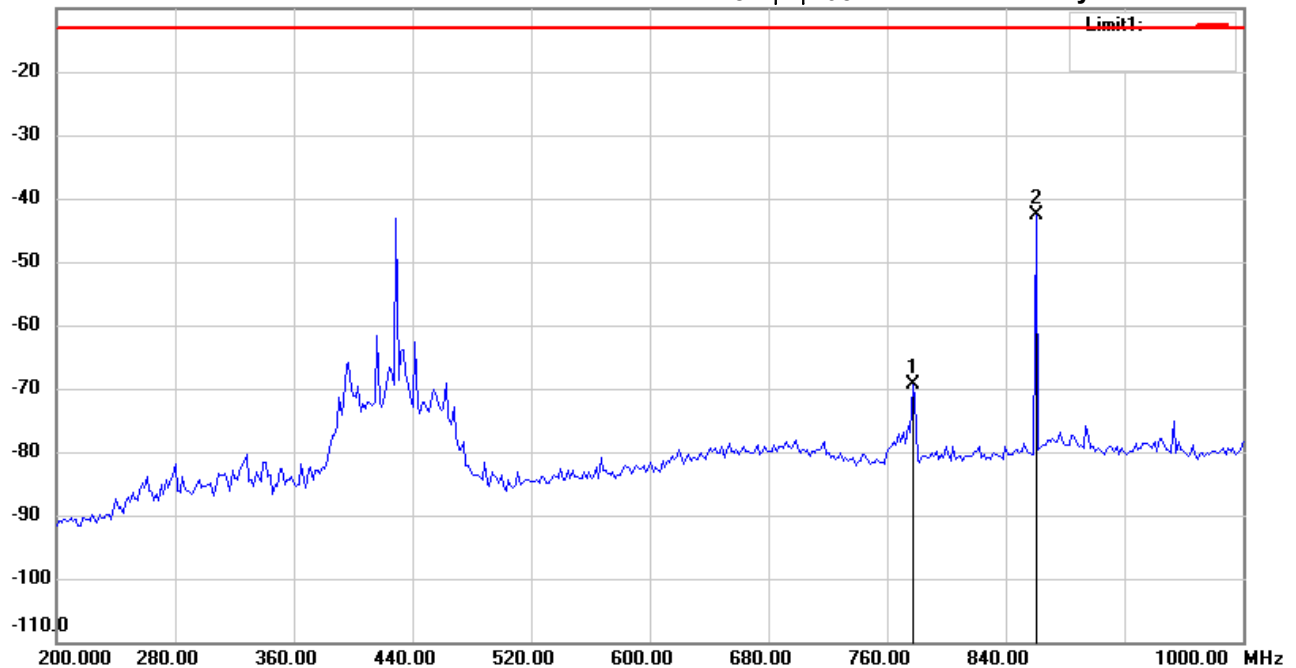
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 05:11:12

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 430MHz

Note :

Polarization: *Horizontal*

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	777.1543	-64.93	peak	-4.39	-69.32	-13.00	150	35	-56.32	
*	860.5210	-40.31	peak	-2.36	-42.67	-13.00	150	140	-29.67	

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



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Radiated Emission Measurement

Operator: Sora

File : 2

Data : #2

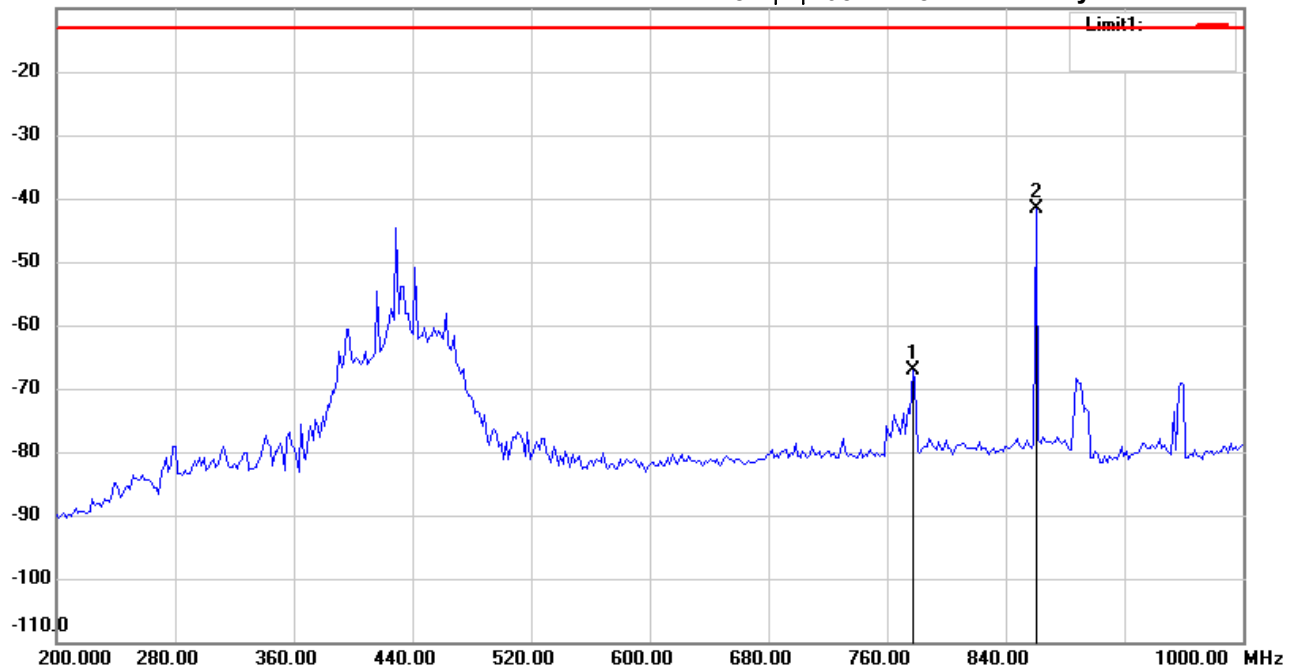
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 05:12:48

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 430MHz

Note :

Polarization: **Vertical**

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	777.1543	-63.98	peak	-3.14	-67.12	-13.00	150	335	-54.12	
*	860.5210	-39.80	peak	-1.93	-41.73	-13.00	150	265	-28.73	

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



Address: 6F., No. 58, Ln 188, Ruey Kuang Rd, NeiHu, Taipei
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Radiated Emission Measurement

Operator: Sora

File :3

Data :#1

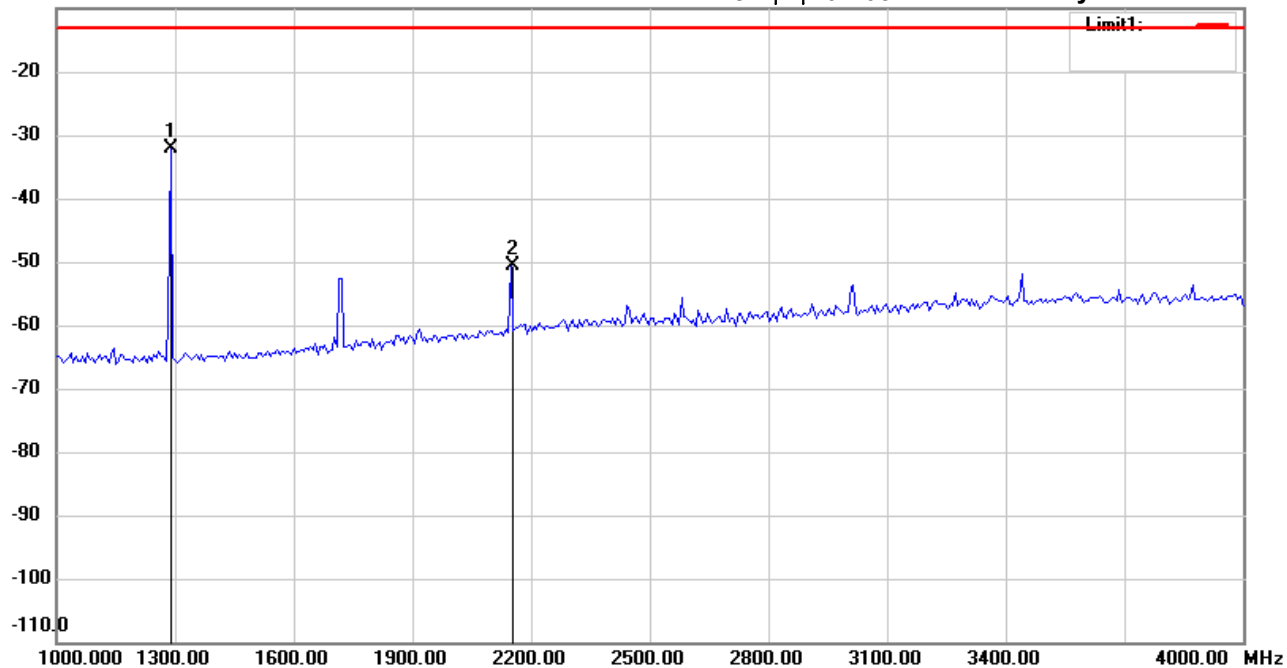
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 02:03:27

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 430MHz

Note :

Polarization: *Horizontal*

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1288.577	-29.84	peak	-2.18	-32.02	-13.00	150	240	-19.02	
	2148.297	-52.65	peak	1.91	-50.74	-13.00	150	215	-37.74	

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



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Radiated Emission Measurement

Operator: Sora

File :3

Data :#2

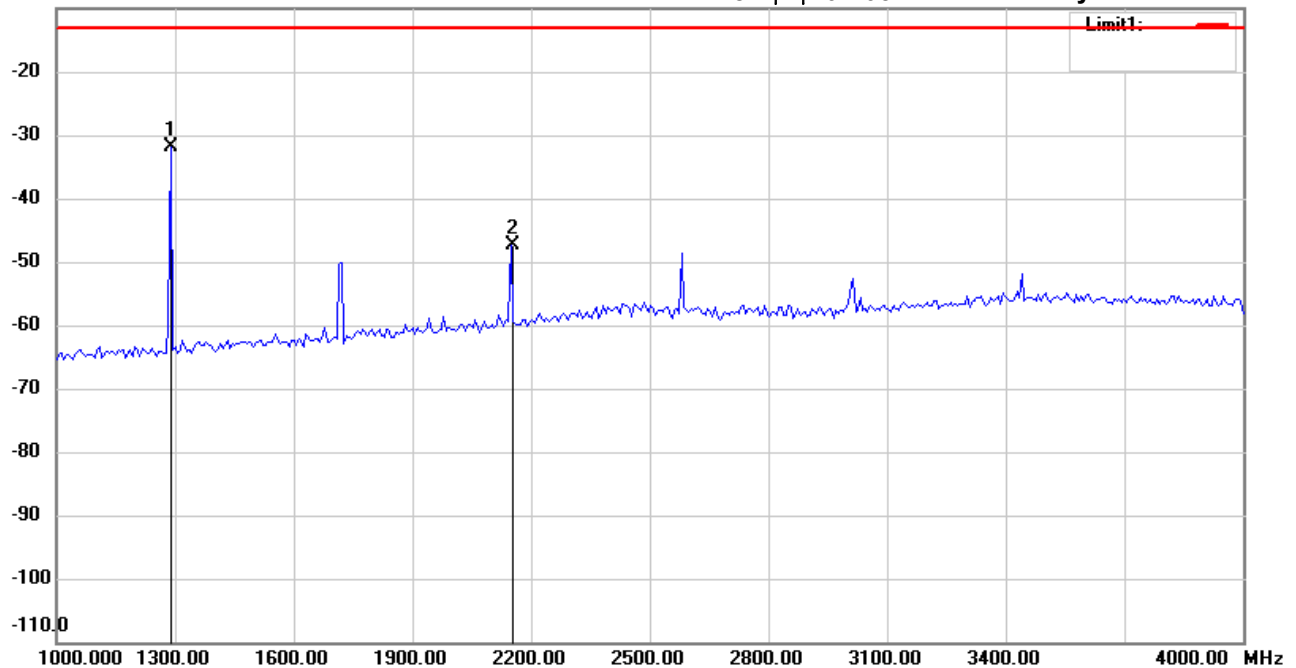
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 02:05:22

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 430MHz

Note :

Polarization: *Vertical*

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1288.577	-30.99	peak	-0.89	-31.88	-13.00	150	140	-18.88	
	2148.297	-50.69	peak	3.24	-47.45	-13.00	150	55	-34.45	

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



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Radiated Emission Measurement

Operator: Sora

File :1

Data :#1

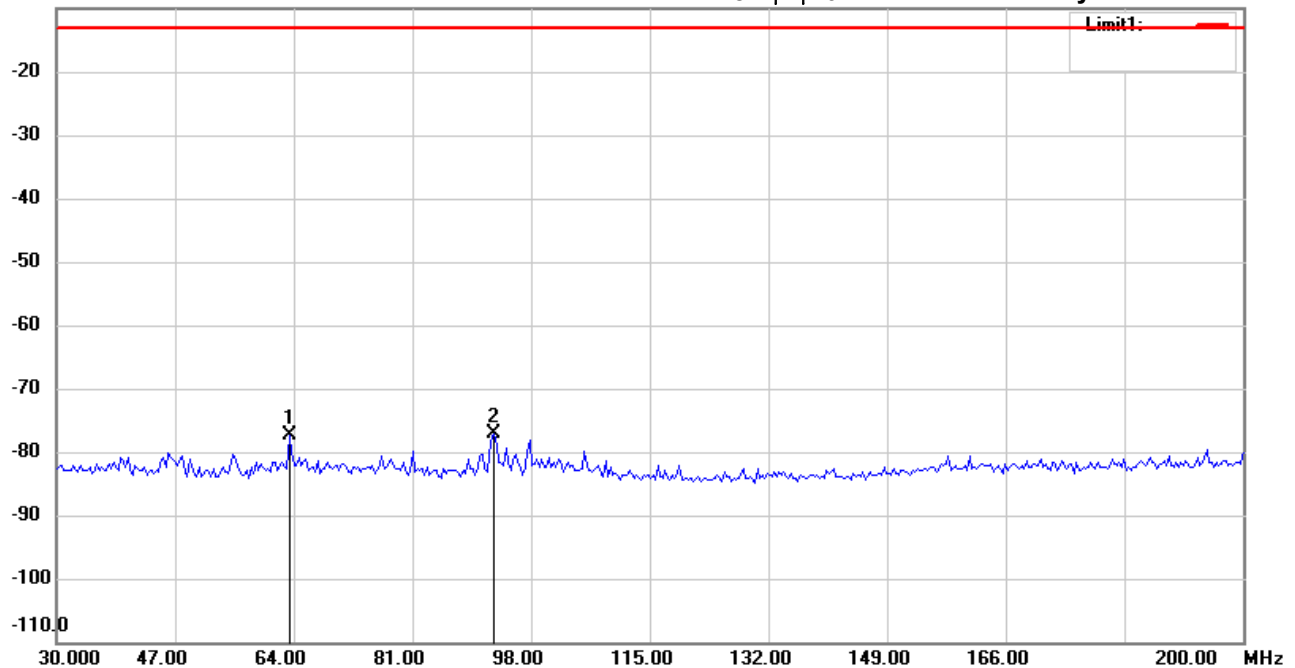
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 04:22:44

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 440MHz

Note :

Polarization: *Horizontal*

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	63.3868	-99.10	peak	21.69	-77.41	-13.00	150	135	-64.41	
*	92.6854	-98.12	peak	21.06	-77.06	-13.00	150	105	-64.06	

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



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Radiated Emission Measurement

Operator: Sora

File :1

Data :#2

Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 04:26:30

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 440MHz

Note :

Polarization: **Vertical**

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	46.0120	-89.62	peak	21.09	-68.53	-13.00	150	255	-55.53	
	152.3046	-95.83	peak	21.25	-74.58	-13.00	150	310	-61.58	

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



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Radiated Emission Measurement

Operator: Sora

File : 2

Data : #1

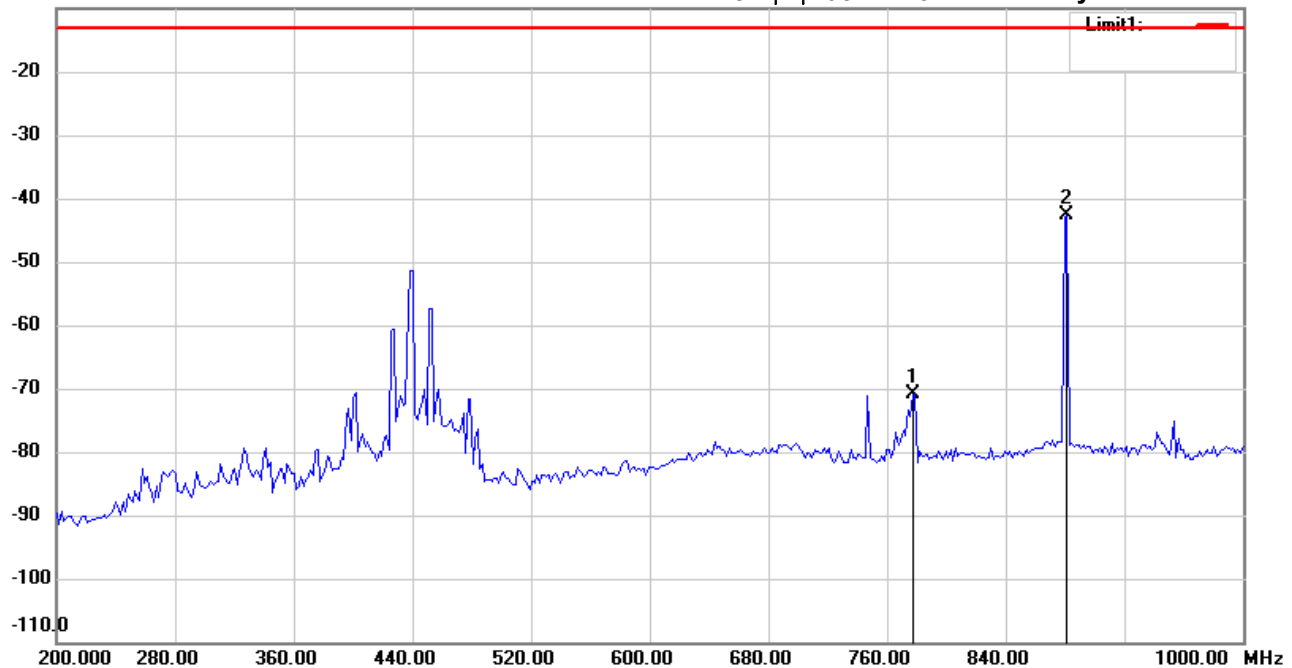
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 05:27:23

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 440MHz

Note :

Polarization: *Horizontal*

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	777.1543	-66.46	peak	-4.39	-70.85	-13.00	150	220	-57.85	
*	881.3627	-40.70	peak	-1.81	-42.51	-13.00	150	160	-29.51	

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



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Radiated Emission Measurement

Operator: Sora

File : 2

Data : #2

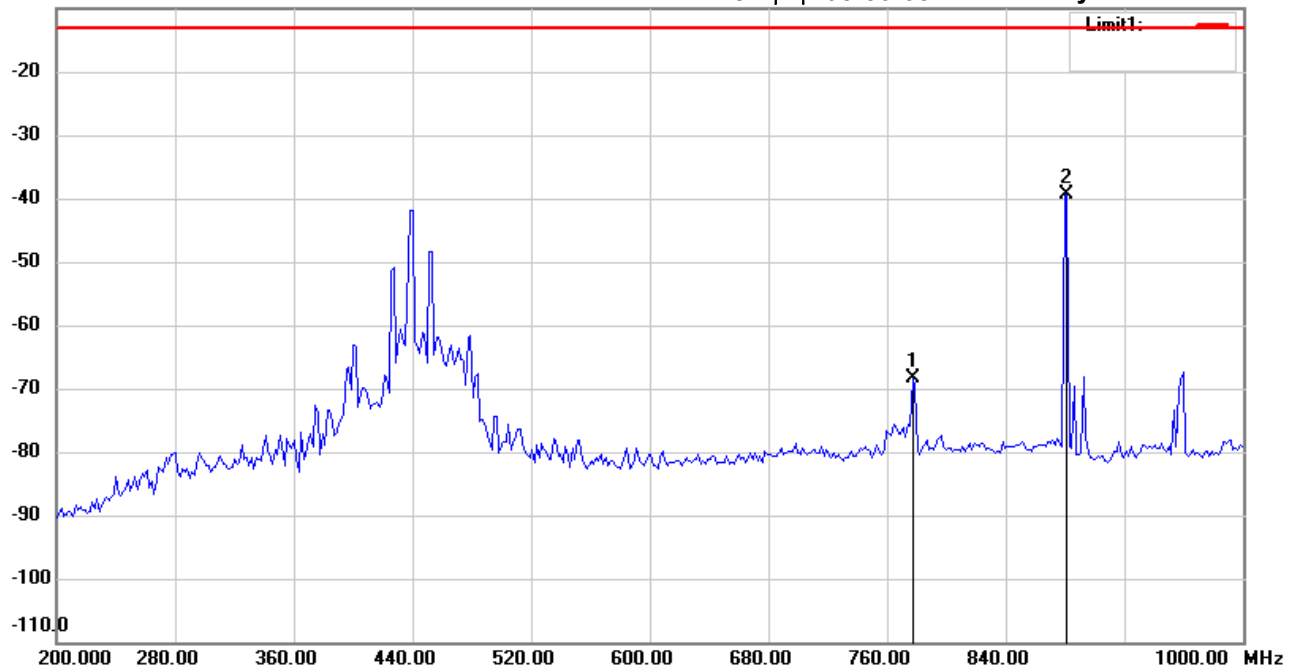
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 05:30:08

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 440MHz

Note :

Polarization: **Vertical**

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	777.1543	-65.24	peak	-3.14	-68.38	-13.00	150	135	-55.38	
*	881.3627	-36.92	peak	-2.38	-39.30	-13.00	150	275	-26.30	

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



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Radiated Emission Measurement

Operator: Sora

File : 3

Data : #1

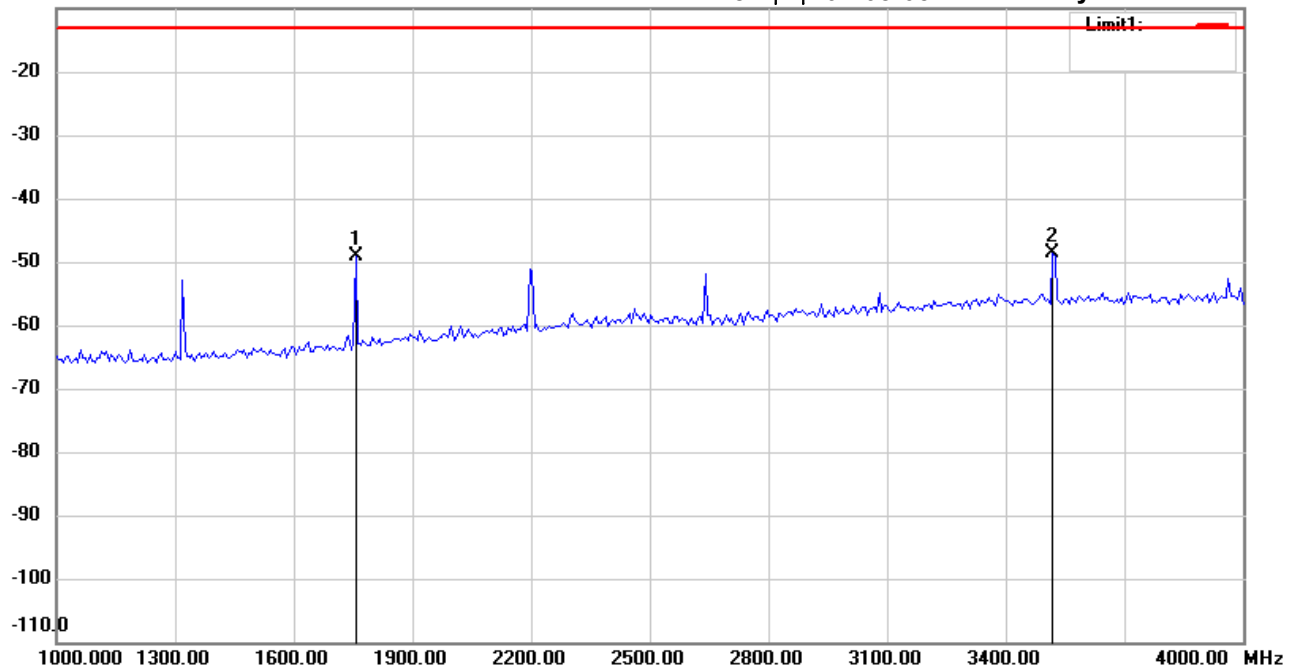
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 02:08:05

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 440MHz

Note :

Polarization: *Horizontal*

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	1757.515	-48.60	peak	-0.50	-49.10	-13.00	150	240	-36.10	
*	3519.038	-55.91	peak	7.32	-48.59	-13.00	150	305	-35.59	

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



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Radiated Emission Measurement

Operator: Sora

File :3

Data :#2

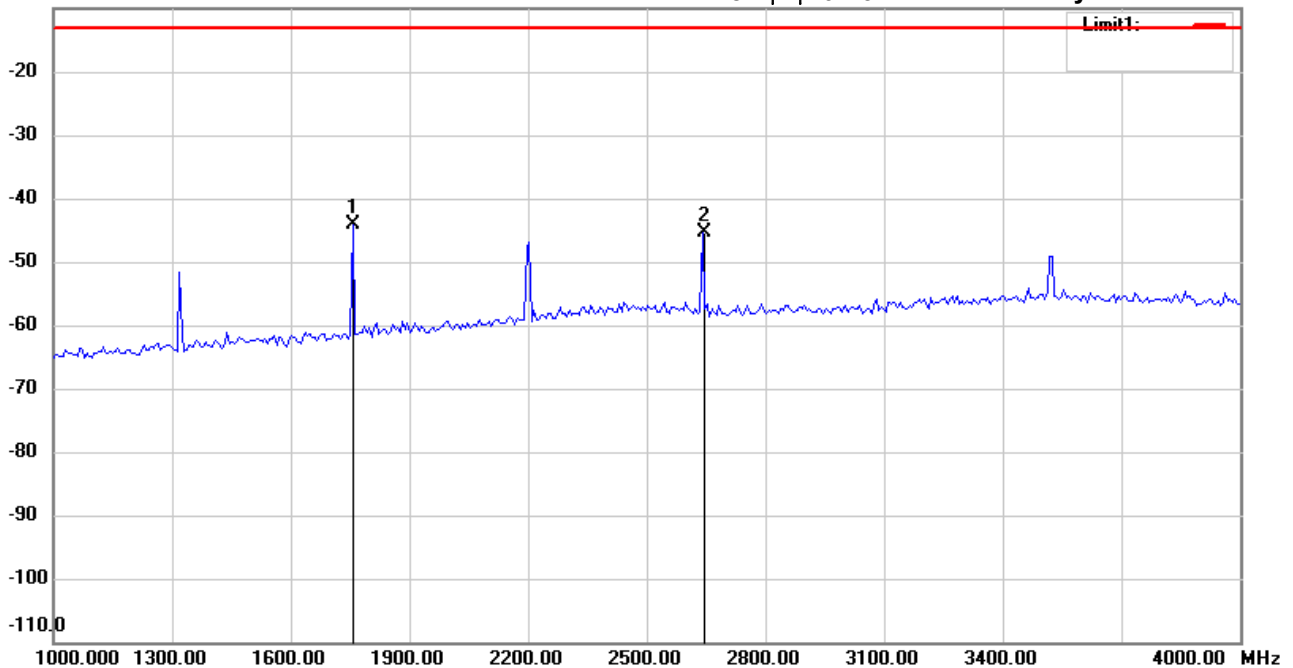
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 02:32:42

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 440MHz

Note :

Polarization: **Vertical**

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1757.515	-45.30	peak	1.07	-44.23	-13.00	150	315	-31.23	
	2641.283	-50.62	peak	5.35	-45.27	-13.00	150	210	-32.27	

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



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Radiated Emission Measurement

Operator: Sora

File :1

Data :#1

Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 04:18:40

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 455MHz

Note :

Polarization: *Horizontal*

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	62.7054	-99.67	peak	21.71	-77.96	-13.00	150	110	-64.96	
*	92.0040	-94.87	peak	21.01	-73.86	-13.00	150	60	-60.86	

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



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Radiated Emission Measurement

Operator: Sora

File :1

Data :#2

Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 04:20:19

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 455MHz

Note :

Polarization: **Vertical**

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	46.0120	-84.22	peak	21.09	-63.13	-13.00	150	55	-50.13	
	94.3888	-99.64	peak	21.71	-77.93	-13.00	150	230	-64.93	

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



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Radiated Emission Measurement

Operator: Sora

File : 2

Data : #1

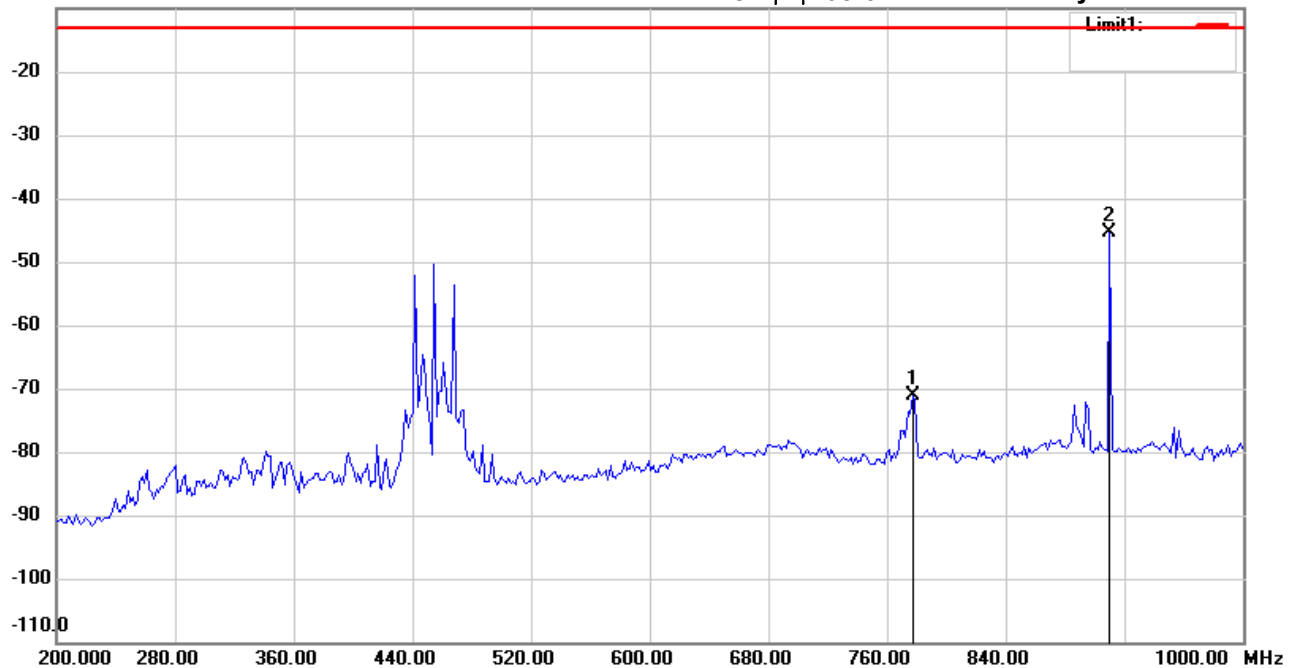
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 05:34:14

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 455MHz

Note :

Polarization: *Horizontal*

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	777.1543	-66.73	peak	-4.39	-71.12	-13.00	150	80	-58.12	
*	910.2204	-43.81	peak	-1.67	-45.48	-13.00	150	155	-32.48	

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



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Radiated Emission Measurement

Operator: Sora

File : 2

Data : #2

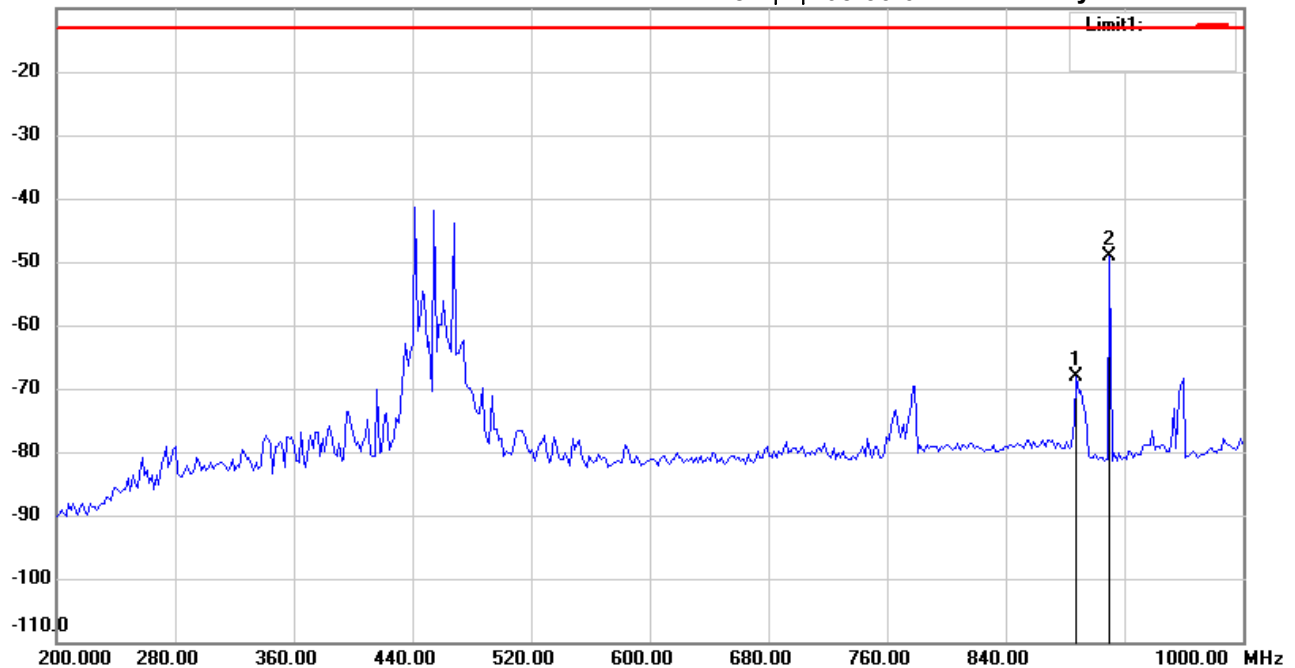
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 05:36:01

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 455MHz

Note :

Polarization: Vertical

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	887.7756	-65.57	peak	-2.52	-68.09	-13.00	150	155	-55.09	
*	910.2204	-46.36	peak	-2.82	-49.18	-13.00	150	215	-36.18	

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



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Radiated Emission Measurement

Operator: Sora

File :3

Data :#1

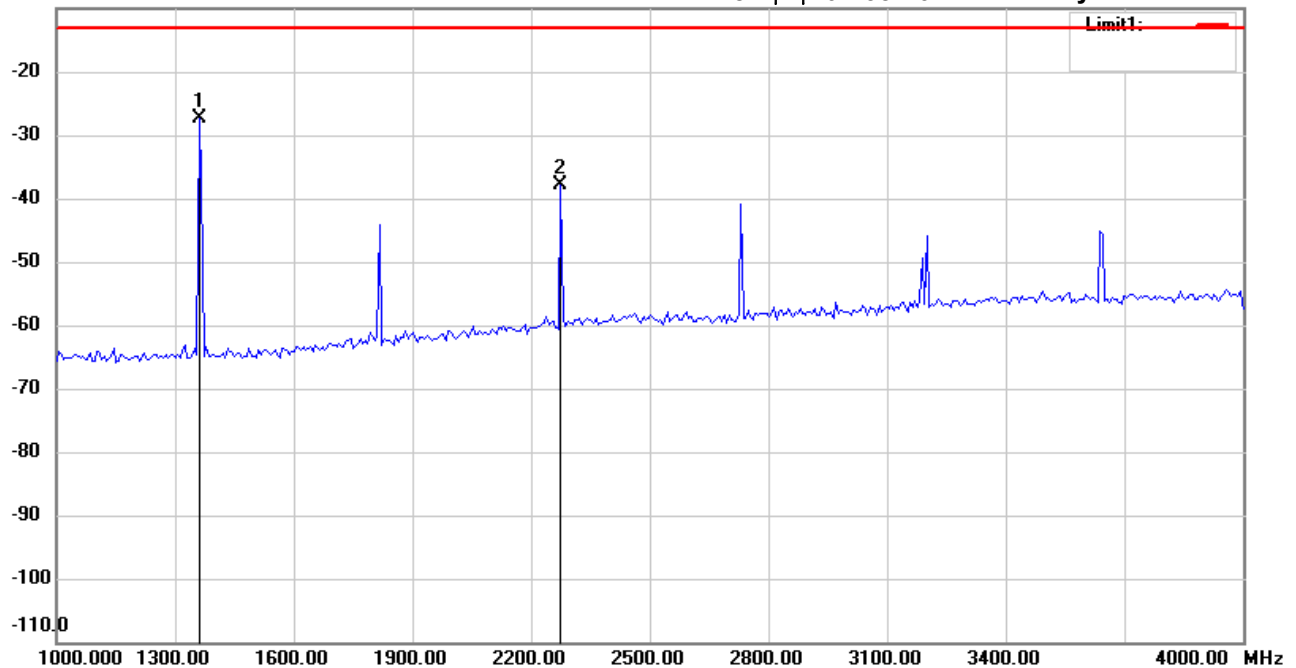
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 02:38:16

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 455MHz

Note :

Polarization: *Horizontal*

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1360.721	-25.16	peak	-2.19	-27.35	-13.00	150	75	-14.35	
	2274.549	-40.47	peak	2.59	-37.88	-13.00	150	120	-24.88	

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



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Radiated Emission Measurement

Operator: Sora

File :3

Data :#2

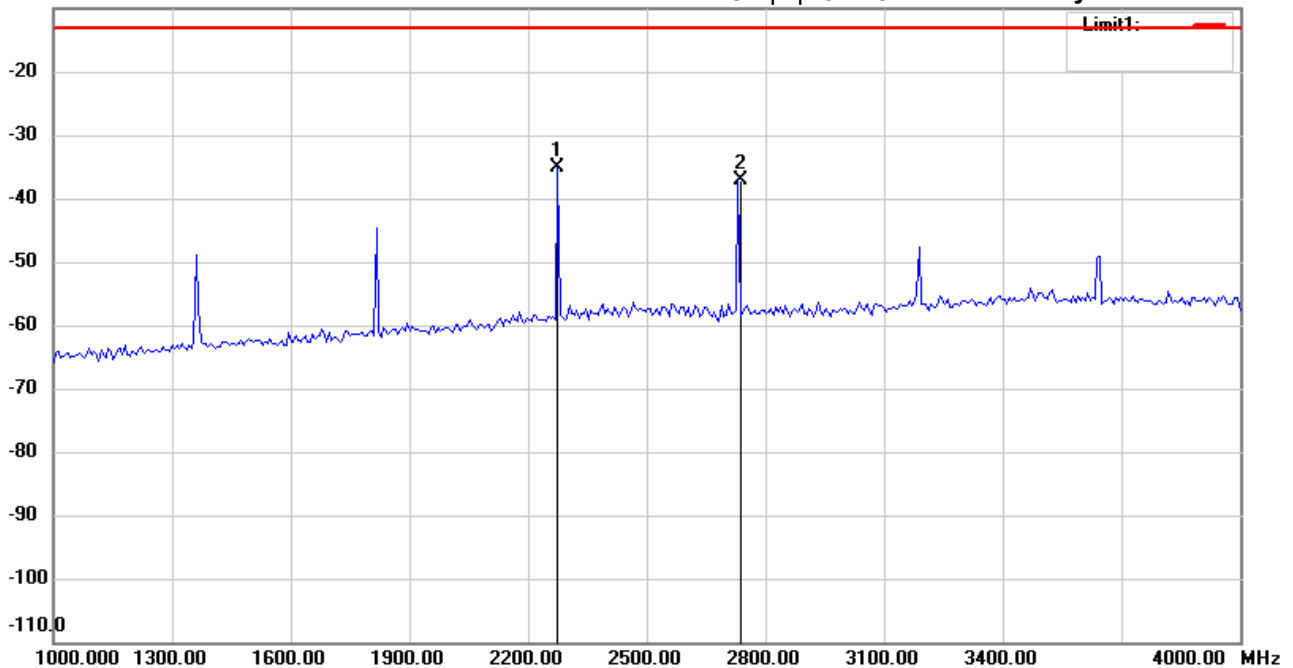
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 02:45:22

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 455MHz

Note :

Polarization: **Vertical**

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	2274.549	-39.12	peak	4.02	-35.10	-13.00	150	245	-22.10	
	2731.463	-42.48	peak	5.30	-37.18	-13.00	150	280	-24.18	

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



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Radiated Emission Measurement

Operator: Sora

File :1

Data :#1

Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 04:12:11

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 470MHz

Note :

Polarization: *Horizontal*

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	47.3746	-100.56	peak	21.48	-79.08	-13.00	150	105	-66.08	
*	91.6633	-96.33	peak	20.98	-75.35	-13.00	150	40	-62.35	

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



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Radiated Emission Measurement

Operator: Sora

File :1

Data :#2

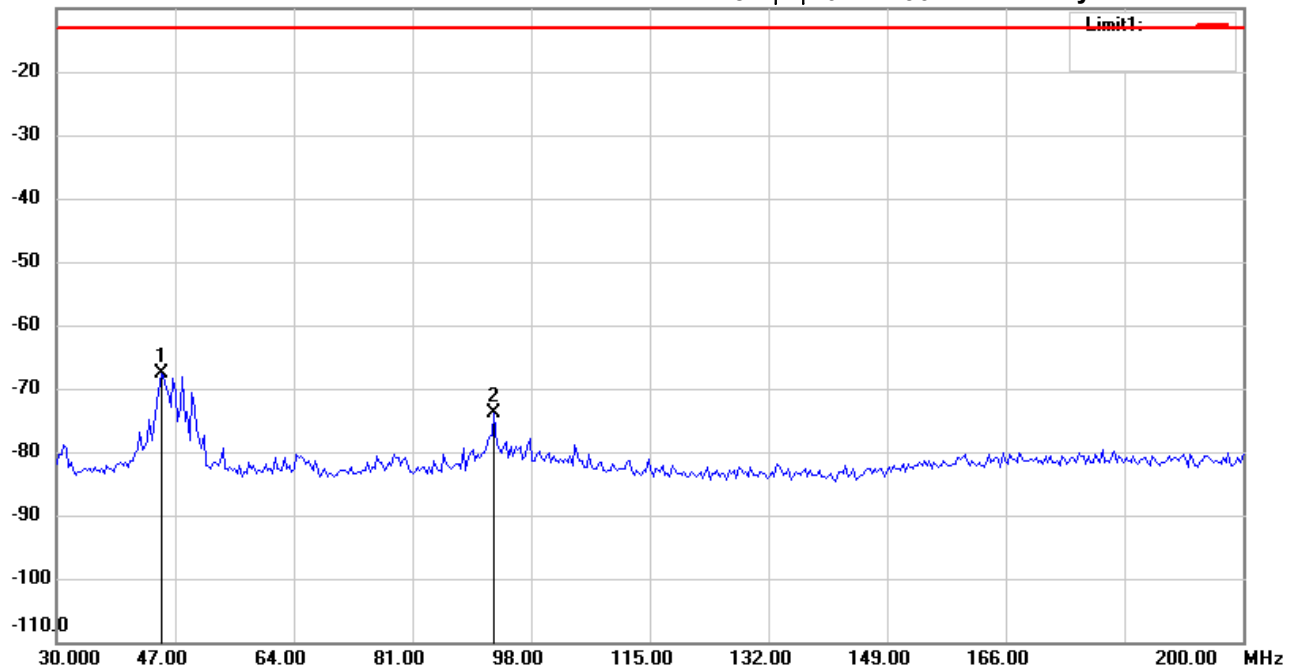
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 04:14:36

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 470MHz

Note :

Polarization: **Vertical**

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	44.9900	-88.54	peak	21.04	-67.50	-13.00	150	290	-54.50	
	92.6854	-95.51	peak	21.72	-73.79	-13.00	150	245	-60.79	

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



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Radiated Emission Measurement

Operator: Sora

File : 2

Data : #1

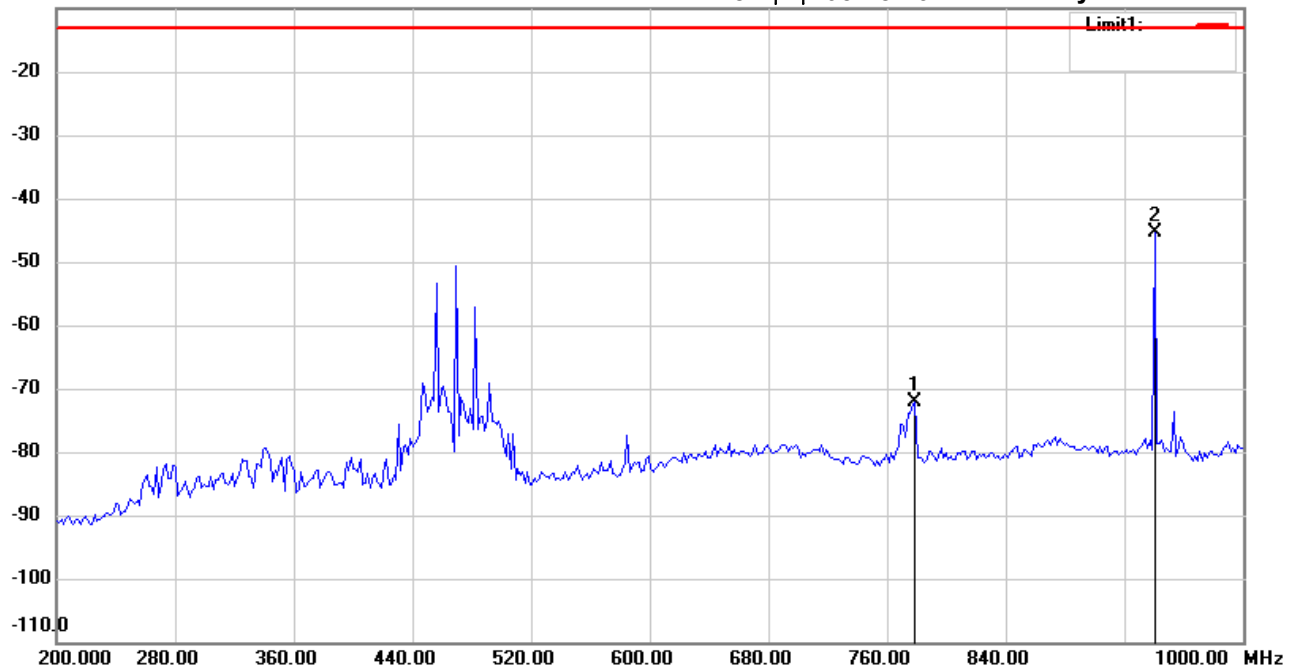
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 05:48:19

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 470MHz

Note :

Polarization: *Horizontal*

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	778.7575	-67.67	peak	-4.38	-72.05	-13.00	150	150	-59.05	
*	940.6814	-42.78	peak	-2.69	-45.47	-13.00	150	105	-32.47	

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



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Radiated Emission Measurement

Operator: Sora

File : 2

Data : #2

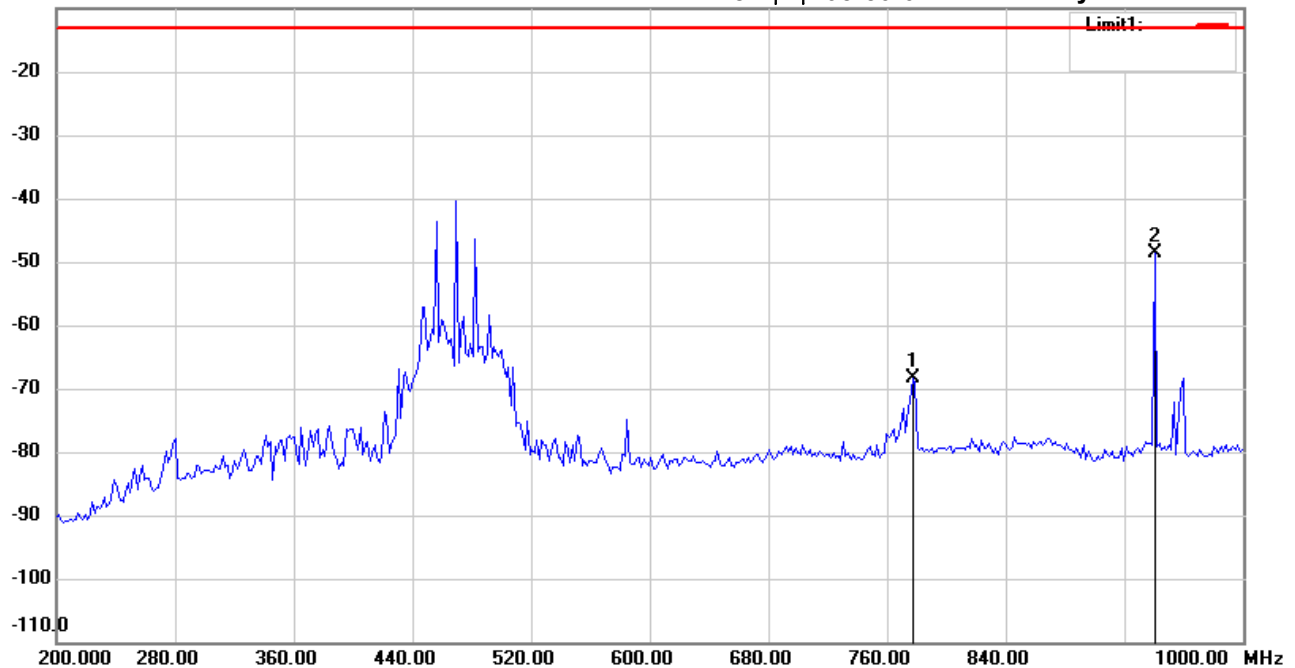
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 05:50:07

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 470MHz

Note :

Polarization: Vertical

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	777.1543	-65.24	peak	-3.14	-68.38	-13.00	150	355	-55.38	
*	940.6814	-45.66	peak	-2.90	-48.56	-13.00	150	245	-35.56	

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



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Radiated Emission Measurement

Operator: Sora

File : 3

Data : #1

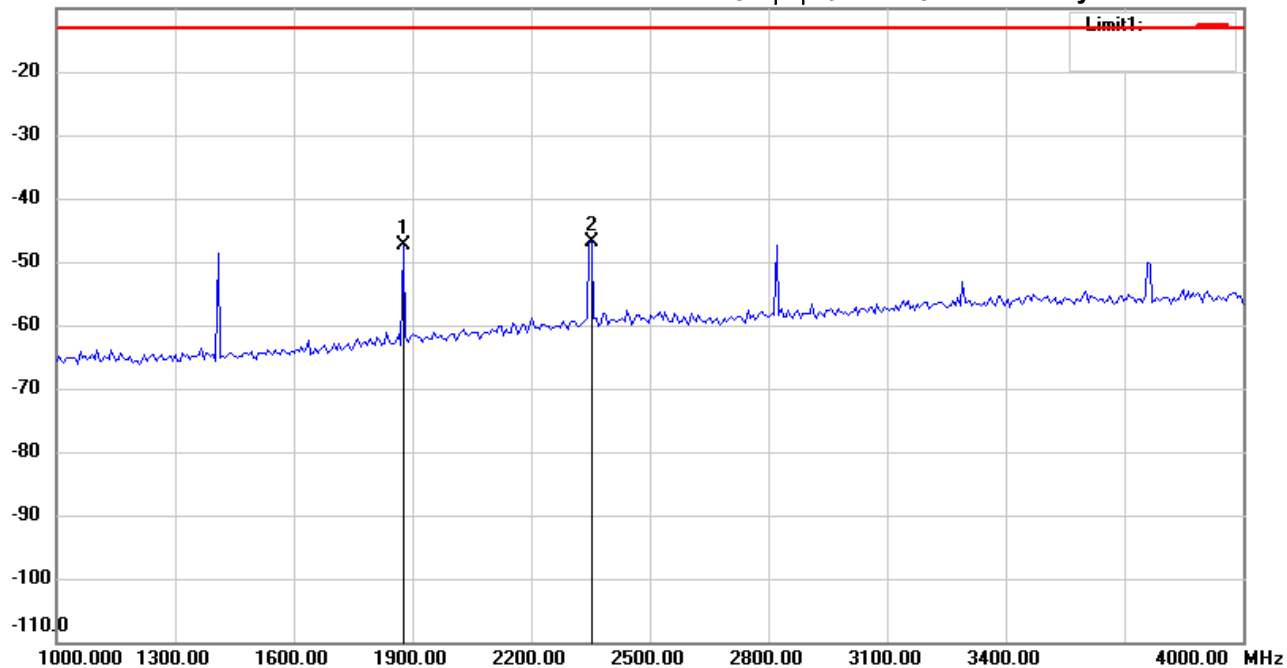
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 02:47:48

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 470MHz

Note :

Polarization: *Horizontal*

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	1877.755	-47.70	peak	0.30	-47.40	-13.00	150	155	-34.40	
*	2352.705	-49.96	peak	3.01	-46.95	-13.00	150	240	-33.95	

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



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Radiated Emission Measurement

Operator: Sora

File : 3

Data : #2

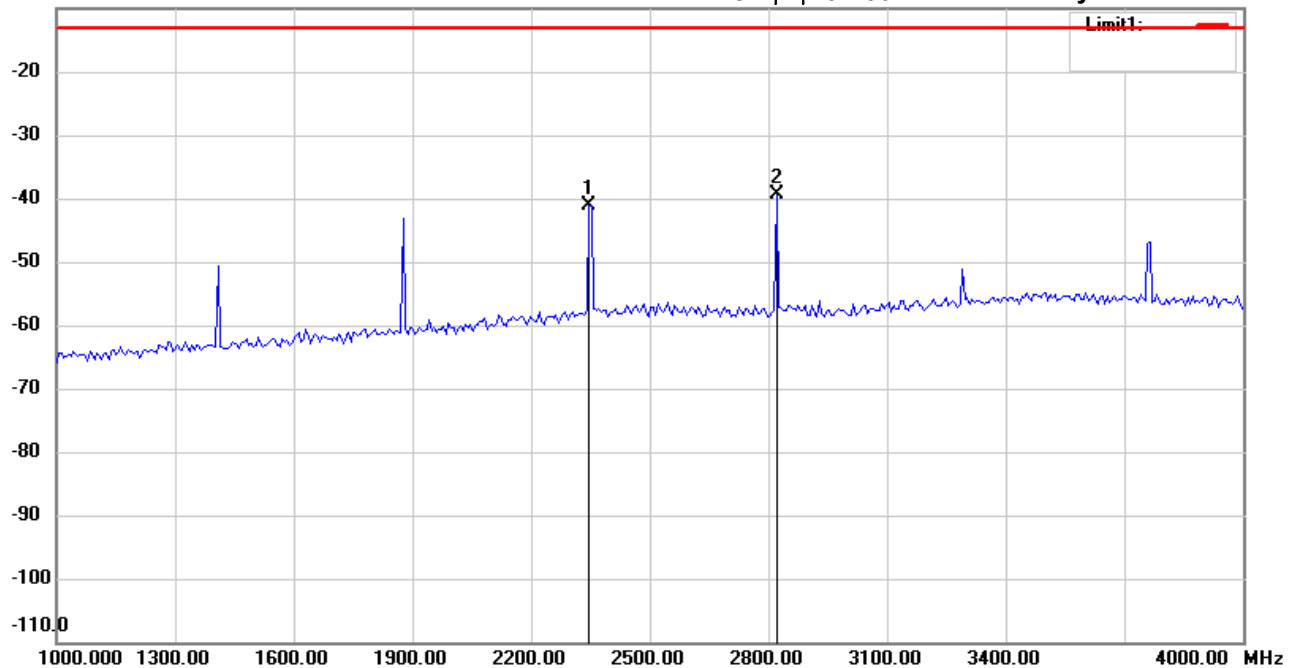
Date: 2020/4/17

Temperature: 24 °C

-10.0 dBm

Time: 下午 02:50:24

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M22003-19794

M/N:

Test Mode : Tx 470MHz

Note :

Polarization: **Vertical**

Power : 13.8 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2346.693	-45.49	peak	4.47	-41.02	-13.00	150	280	-28.02	
*	2821.643	-44.71	peak	5.24	-39.47	-13.00	150	75	-26.47	

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