FCC PART 90 TEST REPORT

for

RF DATA RADIO

Model No.: 52-7880LC2B

FCC ID: L9N-7880LC2B

of

Applicant: **AES Corporation**
Address: **285 Newbury Street, Peabody, MA01960 USA**

Tested and Prepared

by

Worldwide Testing Services (Taiwan) Co., Ltd.

FCC Registration No.: 930600

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

A2LA Accredited No.: 2732.01

Report No.: W6M21210-12822-C-1

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

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1. General Information

1.1 Notes

The purpose of conformity testing is to increase the probability of adherence to the essential requirements or conformity specifications, as appropriate.

The complexity of the technical specifications, however, means that full and thorough testing is impractical for both technical and economic reasons.

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

Neither is there any guarantee that such a test sample will interwork with other genuinely open systems.

The existence of the tests nevertheless provides the confidence that the test sample possesses the qualities as maintained and that is performance generally conforms to representative cases of communications equipment.

The test results of this test report relate exclusively to the item tested as specified in 1.5.

The test report may only be reproduced or published in full.

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Tester:

November 7, 2012		Robert Ren	Robert Ren
Date	WTS-Lab.	Name	Signature

Technical responsibility for area of testing:

November 7, 2012		Danny Sung	Danny Sung
Date	WTS	Name	Signature

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. 930600

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

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

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

1.3 Details of approval holder

Name:	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:	October 26, 2012
Date of test:	from October 29, 2012 to November 6, 2012

1.5 General information of Test item

Type of test item:	RF DATA RADIO
Model Number:	52-7880LC2B
Brand Name:	./.
Multi-listing model number:	./.
Photos:	See appendix

Technical data

Operating frequency band:

Frequency(MHz)	Used Band
406.1~430	☒
450~470	☒

Sample tested frequency:

Mode 1 is 12.5 kHz channel spacing (406.1 ~ 430 MHz)
Mode 2 is 12.5 kHz channel spacing (450 ~ 470 MHz)
Mode 3 is 25 kHz channel spacing (406.1 ~ 430 MHz)
Mode 4 is 25 kHz channel spacing (450 ~ 470 MHz)

Type of modulation:	FM
Designation of emission:	10K0F1D / 10K0F2D (406.1 ~ 430 MHz) 10K1F1D / 10K1F2D (450 ~ 470 MHz)
Antenna Type / Gain:	Monopole antenna / 4.8 dBi
Connection of Antenna:	☒ detachable ☐ not detachable

Connection of Antenna:	☒ detachable	☐ not detachable
Power Rating:	13.6 V	
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: FCC RULES PART 90 (2011-10)

2. Technical test

2.1 Summary of test results

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

or

The deviations as specified in 3 were ascertained in the course of the tests performed. ☐

2.2 Test environment

Temperature: 23 °C

Relative humidity content: 20 ... 75 %

Air pressure: 86-103 KPa

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.

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	2012/9/5	2013/9/4
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	2011/12/28	2012/12/27
ETSTW-CE 005	Line-Impedance Stabilisation Network	NNBM 8126D	137	Schwarzbeck	2012/9/26	2013/9/25
ETSTW-CE 006	IMPULSBEGRENZER PULSE LIMITER	ESH3-Z2	100226	R&S	2012/3/5	2013/3/4
ETSTW-CE 007	SPECTRUM ANALYZER 5GHz	FSB	849670/001	R&S	Pre-test Use	
ETSTW-CE 008	HF-EICHLEITUNG RF STEP ATTENUATOR 139dB DPSP	334.6010.02	844581/024	R&S	Function Test	
ETSTW-CE 009	TEMP.&HUMIDITY CHAMBER	GTH-225-40-1P-U	MAA0305-009	GIANT FORCE	2012/7/3	2013/7/2
ETSTW-CE 013	CISPR 22 TWO BALANCED TELECOM PAIRS IMPEDANCE STABILIZATION NETWORK	FCC-TLISN-T4-02	20242	FCC	2012/9/6	2013/9/5
ETSTW-CE 024	IMPEDANCE STABILIZATION NETWORK	ISN T800	29454	TESEQ	2012/1/4	2013/1/3
ETSTW-CS 004	COUPLING AND DECOUPLING NETWORK	CDN M016	20053	SCHAFFNER	2012/8/10	2013/8/09
ETSTW-CS 005	RF Power Amplifier	100A250A	306547	AR	Function Test	
ETSTW-CS 010	6 dB Attenuator	SA3N1007-06	None	AISI	Function test	
ETSTW-RE 003	EMI TEST RECEIVER	ESI 26	831438/001	R&S	2012/8/10	2013/8/09
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2012/9/5	2013/9/4
ETSTW-RE 005	EMI TEST RECEIVER	ESVS10	843207/020	R&S	2012/9/5	2013/9/4
ETSTW-RE 010	ABSORBING CLAMP	MDS 21	3469	Schwarzbeck	2012/9/5	2013/9/4
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	2012/10/12	2013/10/11
ETSTW-RE 019	MICROWAVE HORN ANTENNA	22240-25	121074	FM	2012/4/03	2013/4/02
ETSTW-RE 020	MICROWAVE HORN ANTENNA	AT4002A	306915	AR	Function Test	
ETSTW-RE 027	Passive Loop Antenna	6512	00034563	ETS-Lindgren	2012/8/01	2013/7/31
ETSTW-RE 028	Log-Periodic Dipole Array Antenna	3148	34429	EMCO	Function Test	
ETSTW-RE 029	Biconical Antenna	3109	33524	EMCO	Function Test	
ETSTW-RE 030	Double-Ridged Guide Horn Antenna	3117	00035224	EMCO	2012/2/21	2013/2/20
ETSTW-RE 032	Millivoltmeter	URV 55	849086/013	R&S	2012/10/5	2013/10/4
ETSTW-RE 033	WaveRunner 6000A Serise Oscilloscope	WAVERUNNER 6100A	LCRY0604P14508	LeCroy	Function Test	
ETSTW-RE 034	Power Sensor	URV5-Z4	839313/006	R&S	2012/10/5	2013/10/4
ETSTW-RE 042	Biconical Antenna	HK116	100172	R&S	2012/1/10	2013/1/9
ETSTW-RE 043	Log-Periodic Dipole Antenna	HL223	100166	R&S	2012/4/13	2013/4/12
ETSTW-RE 044	Log-Periodic Antenna	HL050	100094	R&S	2012/4/06	2013/4/05

ETSTW-RE 045	ESA-E SERIES SPECTRUM ANALYZER	E4404B	MY45111242	Agilent	Pre-test Use	
ETSTW-RE 048	Triple Loop Antenna	HXYZ 9170	HXYZ 9170-134	Schwarzbeck	2012/8/28	2013/8/27
ETSTW-RE 049	TRILOG Super Broadband test Antenna	VULB 9160	9160-3185	Schwarzbeck	2012/3/23	2013/3/22
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2012/3/3	2013/3/2
ETSTW-RE 051	Attenuator 6dB	50HF-006-1	None	JFW	2012/3/3	2013/3/2
ETSTW-RE 053	Attenuator 3dB	50HF-003-1	None	JFW	2012/3/3	2013/3/2
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2012/5/29	2013/5/28
ETSTW-RE 060	Attenuator 30dB	5015-30	F651012z-01	ATM	2012/3/3	2013/3/2
ETSTW-RE 061	Amplifier Module	CHC 1	None	ETS	2012/5/17	2013/5/16
ETSTW-RE 062	Amplifier Module	CHC 2	None	KMIC	2011/11/29	2012/11/28
ETSTW-RE 064	Bluetooth Test Set	MT8852B-042	6K00005709	Anritsu	Function Test	
ETSTW-RE 065	Amplifier	AMF-6F-18002650-25-10P	941608	MITEQ	2012/4/6	2013/4/5
ETSTW-RE 069	Double-Ridged Guide Horn Antenna	3117	00069377	EMCO	Function Test	
ETSTW-RE 072	CELL SITE TEST SET	8921A	3339A00375	HP	2012/10/5	2013/10/4
ETSTW-RE 073	Power Meter	N1911A	MY45100769	Agilent	2012/1/4	2013/1/3
ETSTW-RE 074	Power Sensor	N1921A	MY45241198	Agilent	2012/1/4	2013/1/3
ETSTW-RE 088	SOLID STATE AMPLIFIER	KMA180265A01	99057	KMIC	2012/10/12	2013/10/11
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2012/3/5	2013/3/4
ETSTW-RE 105	2.4GHz Notch Filter	NO124411	39555	MICROWAVE CIRCUITS, INC.	2012/3/5	2013/3/4
ETSTW-RE 106	Humidity Temperature Meter	TES-1366	091011113	TES	2011/12/1	2012/11/30
ETSTW-RE 111	TRILOG Super Broadband test Antenna	VULB 9160	9160-3309	Schwarz beck	2011/12/27	2012/12/26
ETSTW-RE 112	AC POWER SOURCE	TFC-1005	None	T-Power	Function test	
ETSTW-RE 115	2.4GHz Notch Filter	N0124411	473874	MICROWAVE CIRCUITS	2012/1/12	2013/1/11
ETSTW-RE 120	RF Player	MP9200	MP9210-111022	ADIVIC	Function test	
ETSTW-RE 122	SIGNAL GENERATOR	SMF100A	102149	R&S	2012/7/3	2013/7/2
ETSTW-RE 125	5GHz Notch filter	5NSL11-5200/E221.3-O/O	1	K&L Microwave	2012/8/18	2013/8/17
ETSTW-RE 126	5GHz Notch filter	5NSL11-5800/E221.3-O/O	1	K&L Microwave	2012/8/18	2013/8/17
ETSTW-RE 127	RF Switch Box	RFS-01	None	WTS	2012/3/3	2013/3/2
ETSTW-EMI 001	HARMONICS 1000	HAR1000-1P	093	EMC-PARTNER	2012/8/10	2013/8/09
ETSTW-EMS 001	BASELSTRASSE 160 CH-4242 LAUFEN	CN-EFT1000	354	EMC-PARTNER	Function Test	
ETSTW-EMS 002	Frequency Converter	YF-6020	0308014	None	Function Test	
ETSTW-EMS 003	EMC Immunity Test System	TRA2000IN6	579	EMC-PARTNER	2012/11/1	2013/10/31
ETSTW-EMS 009	Magnetic Field Antenna	MF1000-1	104	EMC-PARTNER	Function Test	
ETSTW-EMS 010	Coupling De-coupling Network	CDN-UTP8	014	EMC-PARTNER	Function Test	
ETSTW-EMS 012	EM Injection Clamp	F-203I-23MM	476	FCC	2012/5/29	2013/5/28
ETSTW-EMS 016	EMF Tester	1390	071208732	TES	2012/10/5	2013/10/4

ETSTW-EMS 017	Multimeter	DM-1220	518614	HOLA	2012/8/10	2013/8/09
ETSTW-EMS 019	Electrostatic Discharge Simulator	ESS-2002	ESS06Y6300	NoiseKen	2012/10/5	2013/10/4
ETSTW-EMS 020	Humidity Temperature Meter	TES-1366	091011116	TES	2011/12/20	2012/12/19
ETSTW-RS 003	RF Power Amplifier	30S1G3	306933	AR	Function Test	
ETSTW-RS 004	RF Power Amplifier	150W1000	307009	AR	Function Test	
ETSTW-RS 006	SIGNAL GENERATOR	SML03	101551	R&S	2012/2/29	2013/2/28
ETSTW-RS 007	14" COLOR VIDEO MONITOR	HS-CM145A	0512011548	None	Function Test	
ETSTW-RS 009	SIGNAL GENERATOR	8648C	3642U01656	HP	2012/2/20	2013/2/19
ETSTW-RS 010	Broadband Field Meter	NBM-520	C-0195	Narda	2012/9/24	2013/9/23
ETSTW-GSM 002	Universal Radio Communication Tester	CMU 200	109439	R&S	2012/10/5	2013/10/4
ETSTW-GSM 019	Band Reject Filter	WRCTF824/849-822/851-40 /12+9SS	3	WI	2012/1/13	2013/1/12
ETSTW-GSM 020	Band Reject Filter	WRCD1747/1748-1743/1752-32/5SS	1	WI	2012/1/13	2013/1/12
ETSTW-GSM 021	Band Reject Filter	WRCD1879.5/1880.5-1875.5/1884.5-32/5SS	3	WI	2012/1/13	2013/1/12
ETSTW-GSM 022	Band Reject Filter	WRCT901.9/903.1-904.25-50/8SS	1	WI	2012/1/13	2013/1/12
ETSTW-GSM 023	Power Divider	4901.19.A	None	SUHNER	2012/9/18	2013/9/17
ETSTW-Cable 002	Microwave Cable	SUCOFLEX 104（S_Cable 7）	238093	HUBER+SUHNER	2012/5/17	2013/5/16
ETSTW-Cable 003	Microwave Cable	SUCOFLEX 104（S_Cable 11）	209953	HUBER+SUHNER	2012/5/17	2013/5/16
ETSTW-Cable 010	BNC Cable	5 M BNC Cable	None	JYE BAO CO.,LTD.	2012/3/5	2013/3/4
ETSTW-Cable 011	BNC Cable	BNC Cable 1	None	JYE BAO CO.,LTD.	Pre-test Use NCR	
ETSTW-Cable 012	N TYPE To SMA Cable	Cable 012	None	JYE BAO CO.,LTD.	2012/3/5	2013/3/4
ETSTW-Cable 013	Microwave Cable	SUCOFLEX 104（S_Cable 5）	232345	HUBER+SUHNER	Function Test	
ETSTW-Cable 016	BNC Cable	Switch Box	B Cable 1	Schwarz beck	2012/3/3	2013/3/2
ETSTW-Cable 017	BNC Cable	X Cable	B Cable 2	Schwarz beck	2012/3/3	2013/3/2
ETSTW-Cable 018	BNC Cable	Y Cable	B Cable 3	Schwarz beck	2012/3/3	2013/3/2
ETSTW-Cable 019	BNC Cable	Z Cable	B Cable 4	Schwarz beck	2012/3/3	2013/3/2
ETSTW-Cable 022	N TYPE Cable	5006	0002	JYE BAO CO.,LTD.	2012/4/6	2013/4/5
ETSTW-Cable 026	Microwave Cable	SUCOFLEX 104	279075	HUBER+SUHNER	2012/3/5	2013/3/4
ETSTW-Cable 027	Microwave Cable	SUCOFLEX 104	279083	HUBER+SUHNER	2012/3/5	2013/3/4
ETSTW-Cable 028	Microwave Cable	FA147A0015M2020	30064-2	UTIFLEX	2012/10/12	2013/10/11
ETSTW-Cable 029	Microwave Cable	FA147A0015M2020	30064-3	UTIFLEX	2012/10/12	2013/10/11
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104（S_Cable 9）	279067	HUBER+SUHNER	2012/3/5	2013/3/4
ETSTW-Cable 031	Microwave Cable	SUCOFLEX 104（S_Cable 10）	238092	HUBER+SUHNER	2011/11/29	2012/11/28
ETSTW-Cable 032	Microwave Cable	SUCOFLEX 104（S_Cable 12）	237301	HUBER+SUHNER	Function Test	
ETSTW-Cable 039	Microwave Cable	SUCOFLEX 104（S_Cable 19）	316739	HUBER+SUHNER	2012/5/17	2013/5/16
ETSTW-Cable 040	Microwave Cable	SUCOFLEX 104（S_Cable 20）	316738	HUBER+SUHNER	Function Test	
ETSTW-Cable 043	Microwave Cable	SUCOFLEX 104	317576	HUBER+SUHNER	2011/11/29	2012/11/28

ETSTW-Cable 047	Microwave Cable	SUCOFLEX 104	325518	HUBER+SUHNER	2011/11/29	2012/11/28
ETSTW-Cable 051	BNC Cable	BNC Cable 6	None	JYE BAO CO.,LTD.	2012/3/30	2013/3/29
ETSTW-Cable 052	BNC Cable	Clamp Cable	None	Schwarz beck	2012/3/30	2013/3/29
ETSTW-Cable 053	N TYPE To SMA Cable	RG142	None	JYE BAO CO.,LTD.	2012/4/6	2013/4/5
ETSTW-Cable 054	BNC To SMA Cable	RG142	None	JYE BAO CO.,LTD.	2012/4/6	2013/4/5
ETSTW-Cable 055	NTYPE Cable	N30N30-JBY240-80CM	20110621-1.1	JYE BAO CO.,LTD.	Function Test	
ETSTW-Cable 056	N TYPE Cable	N30N30-JBY240-80CM	20110621-1.0	JYE BAO CO.,LTD.	Function Test	
ETSTW-Cable 057	N TYPE Cable	N30N30-JBY240-80CM	20110621-1.1	JYE BAO CO.,LTD.	Function Test	
WTSTW-SW 001	EMI TEST SOFTWARE	Harmonics-1000	None	EMC PARTNER	HARCS Version 4.16 Firmware Version 2.18	
WTSTW-SW 002	EMI TEST SOFTWARE	EZ_EMC	None	Farad	Version ETS-03A1	
WTSTW-SW 003	EMS TEST SOFTWARE	i2	None	AUDIX	Version 3.2007-8-17b	

2.5 General Test Procedure

POWER LINE CONDUCTED INTERFERENCE: The procedure used was ANSI STANDARD C63.4-2003 using a 50µH LISN (if necessary). Both lines were observed. The bandwidth of the spectrum analyzer was 10 kHz with an appropriate sweep speed.

RADIATION INTERFERENCE: The test procedure used was according to ANSI STANDARD C63.4-2003 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.

Measurements were made by at the registered open field test site located at The Registration Number: 930600. When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

3. Test results (enclosure)

TEST CASE	Para. Number	Required	Test passed	Test failed
Modulation Characteristics	2.1047(a) (b); 2.1033(c)	☒	☒	☐
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	☒	☒	☐

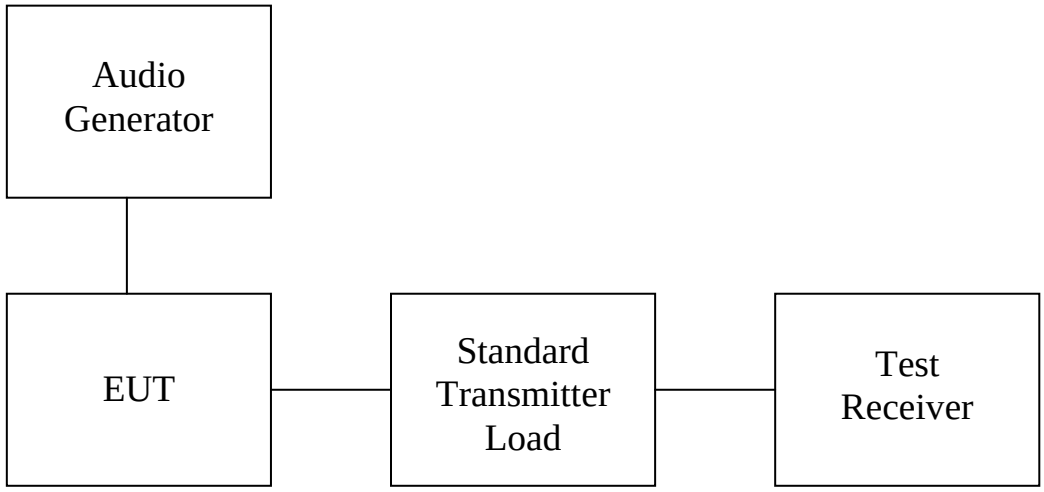
The following is intentionally left blank.

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



4.3 Test results

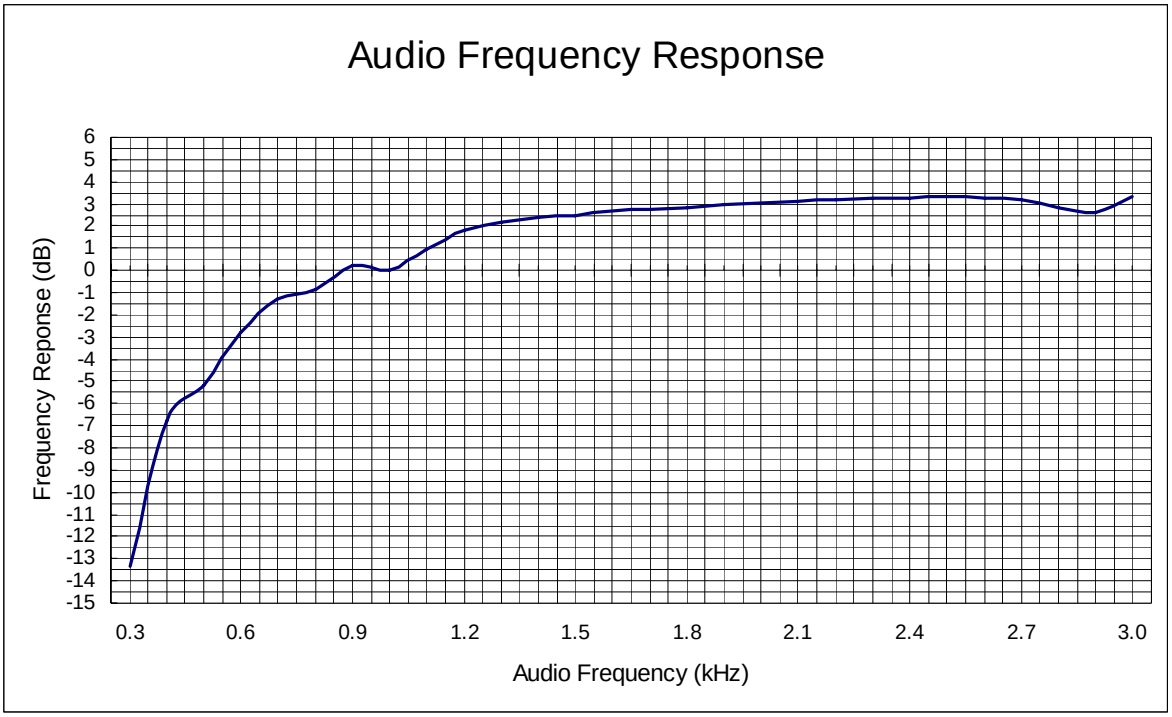
4.3.1 Audio Frequency Response

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 (1kHz and 20% max. deviation): 25mV

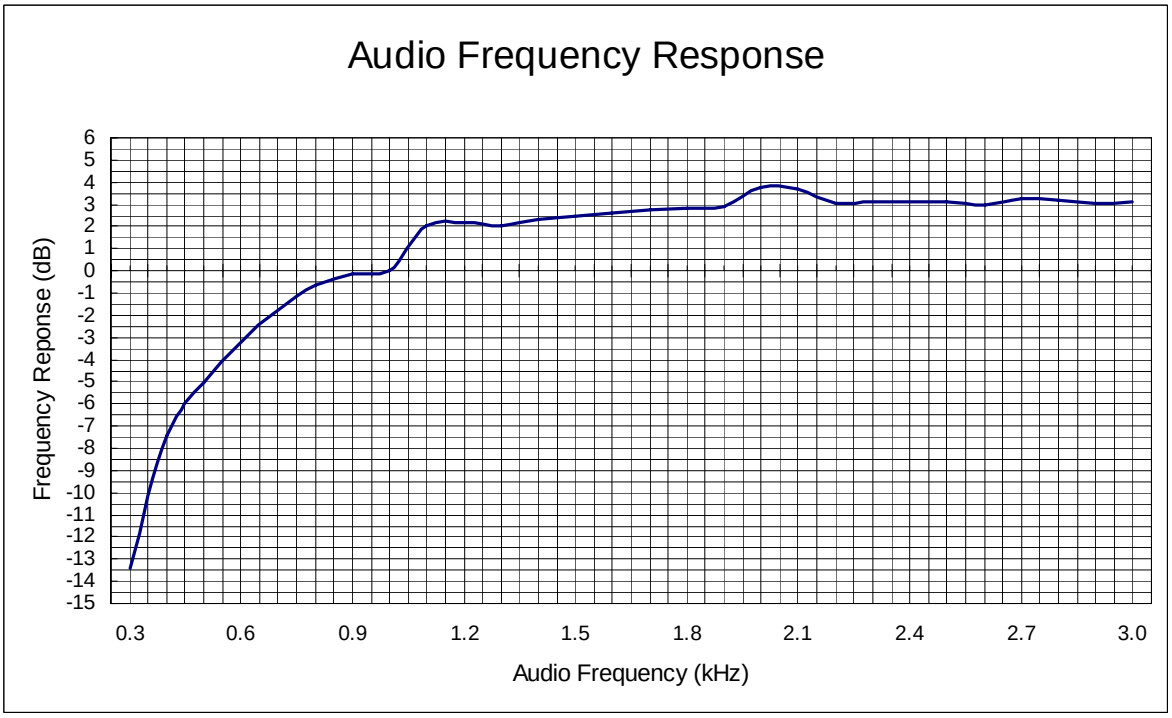
Mode 1 & 2

Audio Frequency (kHz)	**A.R (dB)**	**F.D.**	**Audio Frequency (kHz)**	**A.R (dB)**	**F.D.**
418 MHz, 12.5 kHz			460 MHz, 12.5 kHz		
0.3	-13.309	0.35	0.3	-13.416	0.35
0.4	-6.806	0.74	0.4	-7.395	0.7
0.5	-5.203	0.89	0.5	-5.021	0.92
0.6	-2.827	1.17	0.6	-3.235	1.13
0.7	-1.268	1.4	0.7	-1.820	1.33
0.8	-0.844	1.47	0.8	-0.660	1.52
0.9	0.212	1.66	0.9	-0.107	1.62
1.0	0.000	1.62	1.0	0.000	1.64
1.1	0.963	1.81	1.1	2.023	2.07
1.2	1.787	1.99	1.2	2.148	2.1
1.3	2.171	2.08	1.3	2.064	2.08
1.4	2.418	2.14	1.4	2.311	2.14
1.5	2.458	2.15	1.5	2.472	2.18
1.6	2.658	2.2	1.6	2.630	2.22
1.7	2.776	2.23	1.7	2.747	2.25
1.8	2.853	2.25	1.8	2.824	2.27
1.9	2.968	2.28	1.9	2.900	2.29
2.0	3.044	2.3	2.0	3.766	2.53
2.1	3.082	2.31	2.1	3.662	2.5
2.2	3.157	2.33	2.2	3.050	2.33
2.3	3.231	2.35	2.3	3.124	2.35
2.4	3.268	2.36	2.4	3.124	2.35
2.5	3.341	2.38	2.5	3.124	2.35
2.6	3.268	2.36	2.6	2.975	2.31
2.7	3.157	2.33	2.7	3.235	2.38
2.8	2.853	2.25	2.8	3.198	2.37
2.9	2.579	2.18	2.9	3.050	2.33
3.0	3.341	2.38	3.0	3.124	2.35

Mode 1 (418 MHz, 12.5 kHz)



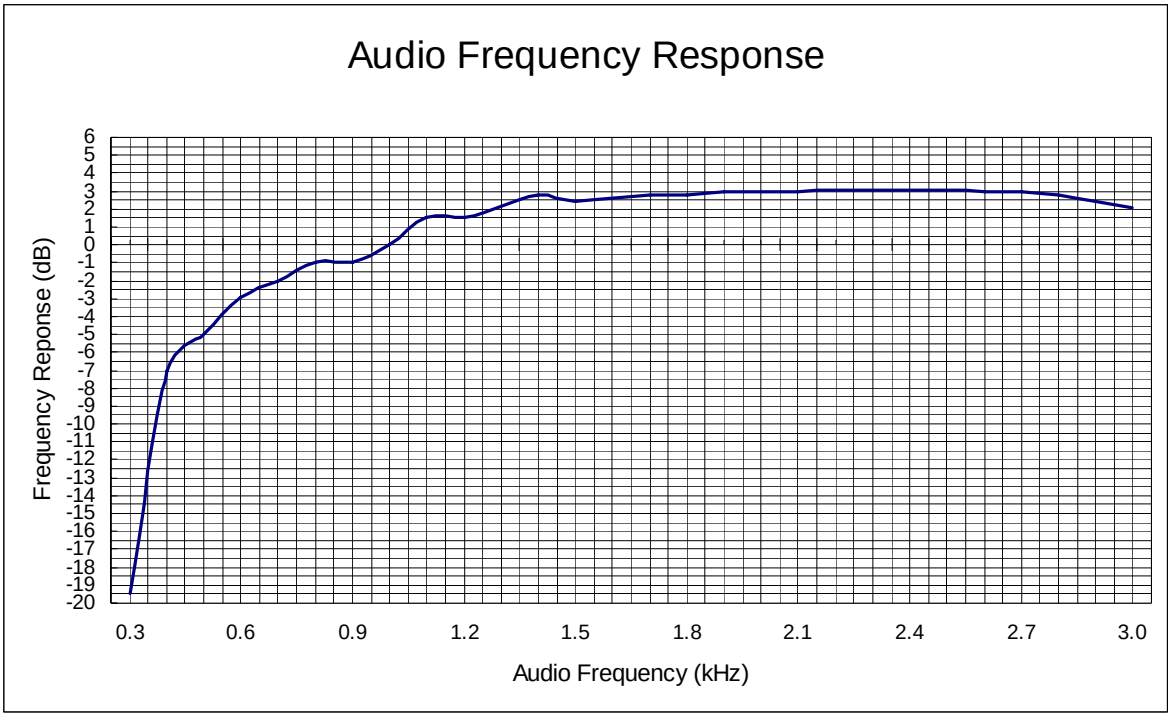
Mode 2 (460 MHz, 12.5 kHz)



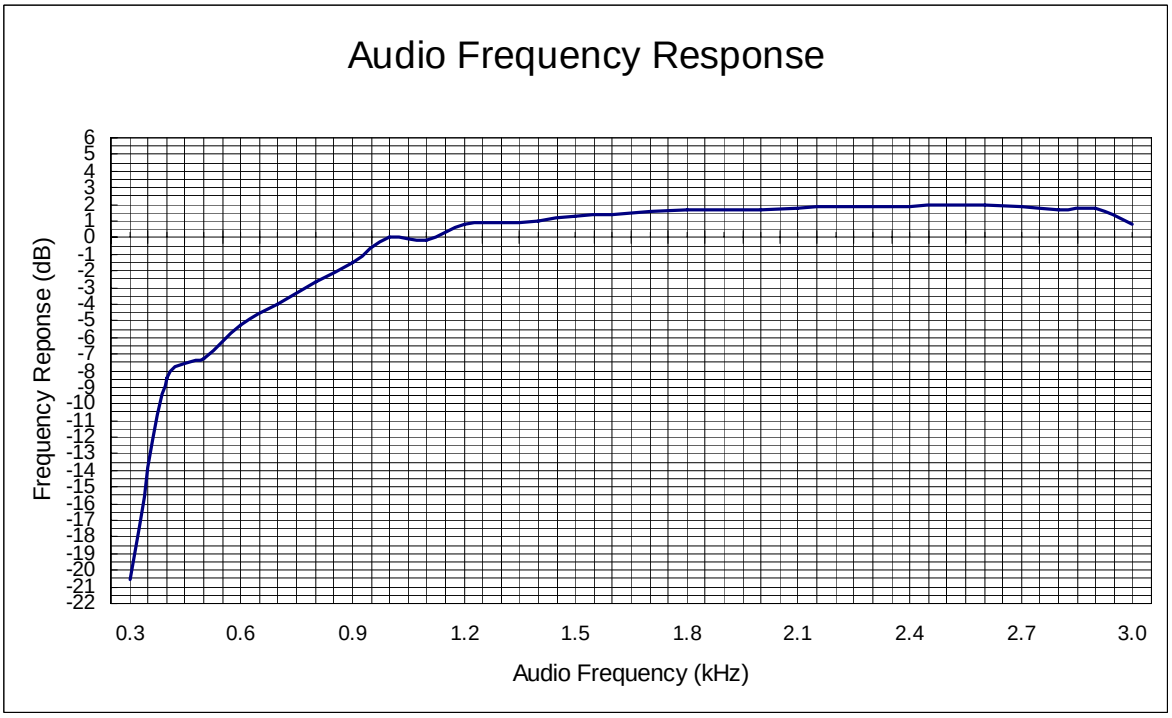
Mode 3 & 4

Audio Frequency (kHz)	A.R (dB)	F.D.	Audio Frequency (kHz)	A.R (dB)	F.D.
418 MHz, 25kHz			460 MHz, 25 kHz		
0.3	-19.436	0.35	0.3	-20.576	0.35
0.4	-7.030	1.46	0.4	-8.473	1.41
0.5	-5.021	1.84	0.5	-7.267	1.62
0.6	-2.933	2.34	0.6	-5.222	2.05
0.7	-2.018	2.6	0.7	-3.962	2.37
0.8	-0.951	2.94	0.8	-2.639	2.76
0.9	-0.951	2.94	0.9	-1.491	3.15
1.0	0.000	3.28	1.0	0.000	3.74
1.1	1.570	3.93	1.1	-0.140	3.68
1.2	1.570	3.93	1.2	0.819	4.11
1.3	2.168	4.21	1.3	0.904	4.15
1.4	2.747	4.5	1.4	1.008	4.2
1.5	2.412	4.33	1.5	1.312	4.35
1.6	2.611	4.43	1.6	1.412	4.4
1.7	2.747	4.5	1.7	1.568	4.48
1.8	2.785	4.52	1.8	1.645	4.52
1.9	2.919	4.59	1.9	1.665	4.53
2.0	2.938	4.6	2.0	1.703	4.55
2.1	2.975	4.62	2.1	1.798	4.6
2.2	3.050	4.66	2.2	1.835	4.62
2.3	3.050	4.66	2.3	1.835	4.62
2.4	3.050	4.66	2.4	1.910	4.66
2.5	3.013	4.64	2.5	1.966	4.69
2.6	2.994	4.63	2.6	1.985	4.7
2.7	2.994	4.63	2.7	1.835	4.62
2.8	2.766	4.51	2.8	1.684	4.54
2.9	2.392	4.32	2.9	1.798	4.6
3.0	2.064	4.16	3.0	0.841	4.12

Mode 3 (418 MHz, 25 kHz)



Mode 4 (460 MHz, 25 kHz)



Test equipment used: ETSTW-RE 072

4.3.2 AUDIO INPUT VERSUS MODULATION

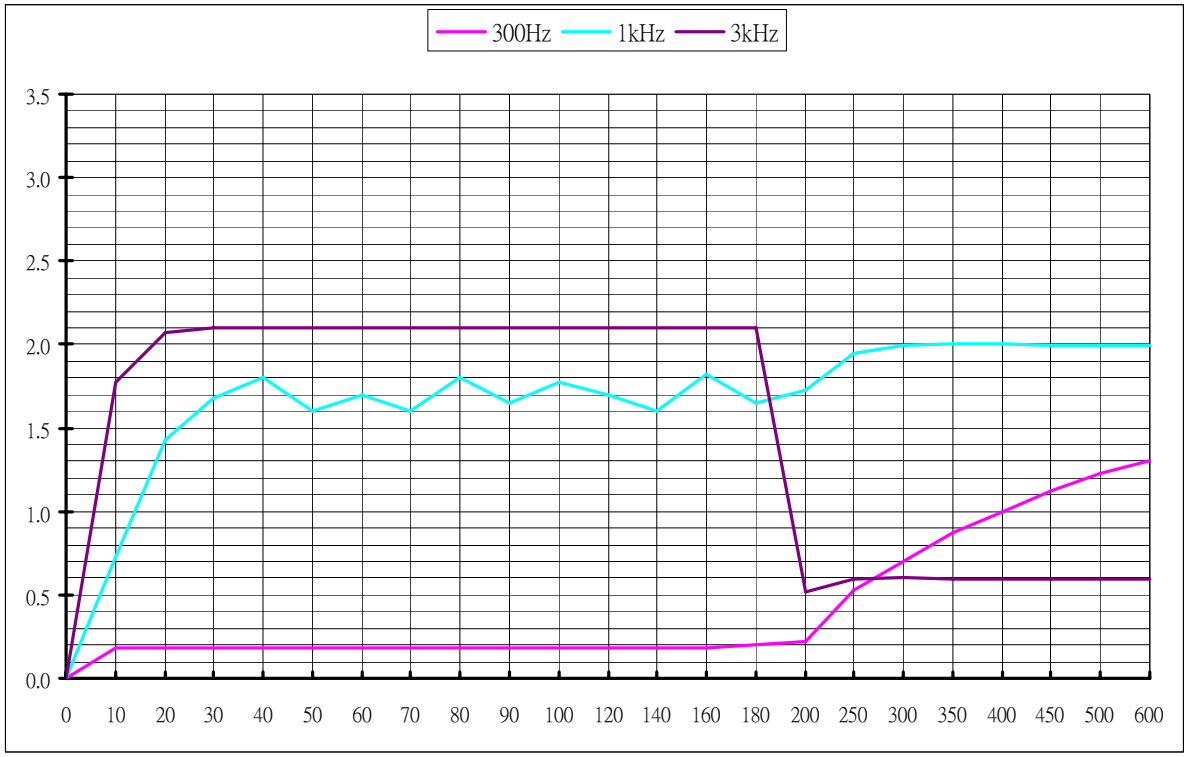
Rule Part No.: Part 2.1047(b) & 90
Test Requirements: Modulation cannot exceed 100%
Method of Measurement: The audio input level needed for a particular percentage of modulation was measured in accordance with TIA/EIA Specification 603. The audio input curves versus modulation are shown below. Curves are provided for audio input frequencies of 300, 1000, and 3000 Hz.
EUT Max deviation: 5kHz 60% EUT Max deviation: 3kHz

Mode 1 & 2

Input Audio Level (mV)	300Hz	1kHz	3kHz	Input Audio Level (mV)	300Hz	1kHz	3kHz
418 MHz, 12.5 kHz				460 MHz, 12.5 kHz			
0	0.0	0.0	0.0	0	0.0	0.0	0.0
10	0.18	0.73	1.77	10	0.20	0.76	1.80
20	0.18	1.43	2.07	20	0.25	1.50	2.08
30	0.18	1.68	2.10	30	0.28	1.75	2.09
40	0.18	1.80	2.10	40	0.30	1.68	2.09
50	0.18	1.60	2.10	50	0.35	1.65	2.09
60	0.18	1.70	2.10	60	0.37	1.76	2.09
70	0.18	1.60	2.10	70	0.40	1.65	2.09
80	0.18	1.80	2.10	80	0.45	1.66	2.09
90	0.18	1.65	2.10	90	0.48	1.66	2.09
100	0.18	1.77	2.10	100	0.48	1.62	2.09
120	0.18	1.70	2.10	120	0.48	1.63	2.09
140	0.18	1.60	2.10	140	0.51	1.62	2.09
160	0.18	1.82	2.10	160	0.51	1.67	2.38
180	0.20	1.65	2.10	180	0.51	1.67	2.38
200	0.22	1.73	0.52	200	0.51	1.75	2.09
250	0.53	1.95	0.59	250	0.54	1.98	0.71
300	0.70	1.99	0.60	300	0.74	2.06	0.71
350	0.87	2.00	0.59	350	0.88	2.00	0.71
400	1.00	2.00	0.59	400	1.01	2.00	0.71
450	1.12	1.99	0.59	450	1.13	2.10	0.71
500	1.23	1.99	0.59	500	1.23	2.00	0.71
600	1.30	1.99	0.59	600	1.41	1.98	0.71

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

Mode 1 (418 MHz, 12.5 kHz)



Mode 2 (460 MHz, 12.5 kHz)

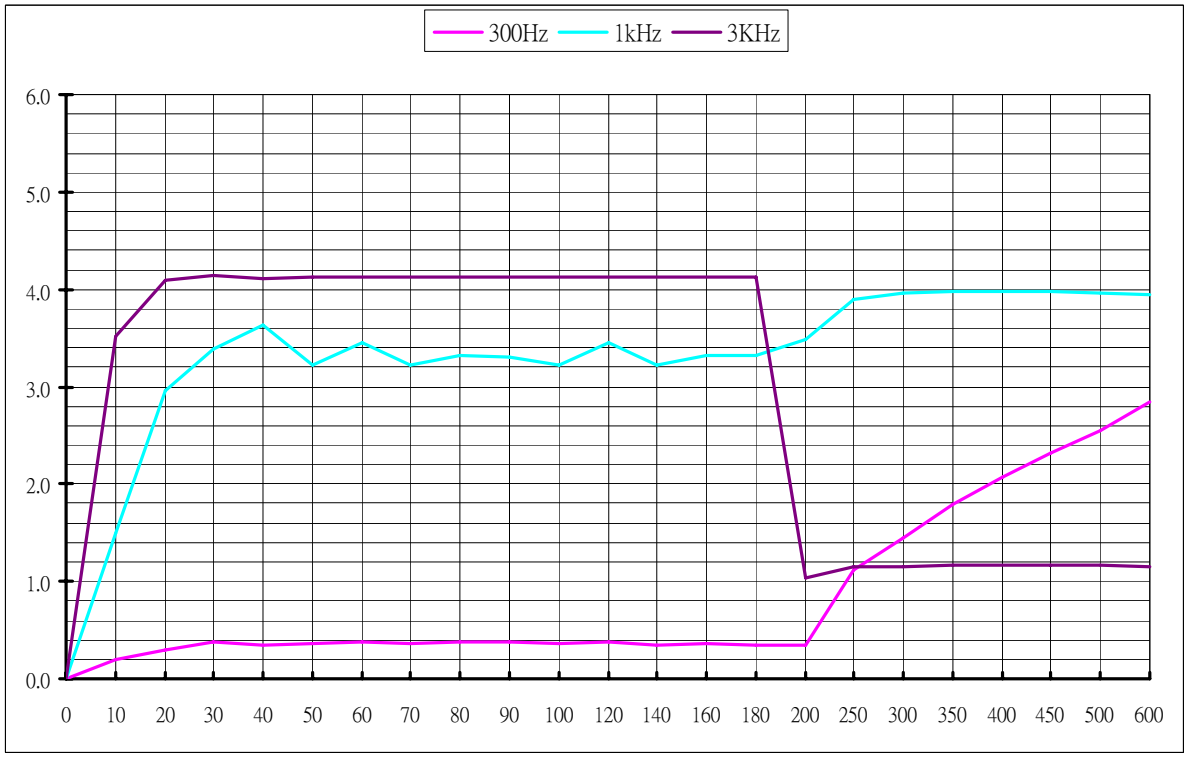
Mode 3 & 4

Input Audio Level (mV)	300Hz	1kHz	3kHz	Input Audio Level (mV)	300Hz	1kHz	3kHz
418 MHz, 25 kHz				460 MHz, 25 kHz			
0	0.0	0.0	0.0	0	0.0	0.0	0.0
10	0.20	1.50	3.52	10	0.20	1.50	3.52
20	0.29	2.96	4.09	20	0.29	2.96	4.09
30	0.38	3.38	4.14	30	0.38	3.38	4.14
40	0.35	3.63	4.11	40	0.35	3.63	4.11
50	0.36	3.23	4.12	50	0.36	3.23	4.12
60	0.37	3.45	4.12	60	0.37	3.45	4.12
70	0.36	3.22	4.12	70	0.36	3.22	4.12
80	0.37	3.32	4.12	80	0.37	3.32	4.12
90	0.37	3.31	4.12	90	0.37	3.31	4.12
100	0.36	3.23	4.12	100	0.36	3.23	4.12
120	0.38	3.45	4.12	120	0.38	3.45	4.12
140	0.35	3.22	4.12	140	0.35	3.22	4.12
160	0.36	3.32	4.12	160	0.36	3.32	4.12
180	0.35	3.32	4.12	180	0.35	3.32	4.12
200	0.35	3.49	1.04	200	0.35	3.49	1.04
250	1.11	3.89	1.15	250	1.11	3.89	1.15
300	1.45	3.96	1.15	300	1.45	3.96	1.15
350	1.80	3.97	1.16	350	1.80	3.97	1.16
400	2.07	3.97	1.17	400	2.07	3.97	1.17
450	2.32	3.97	1.16	450	2.32	3.97	1.16
500	2.54	3.96	1.16	500	2.54	3.96	1.16
600	2.84	3.95	1.15	600	2.84	3.95	1.15

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

Mode 3 (418 MHz, 25 kHz)

Mode 4 (460MHz, 25 kHz)

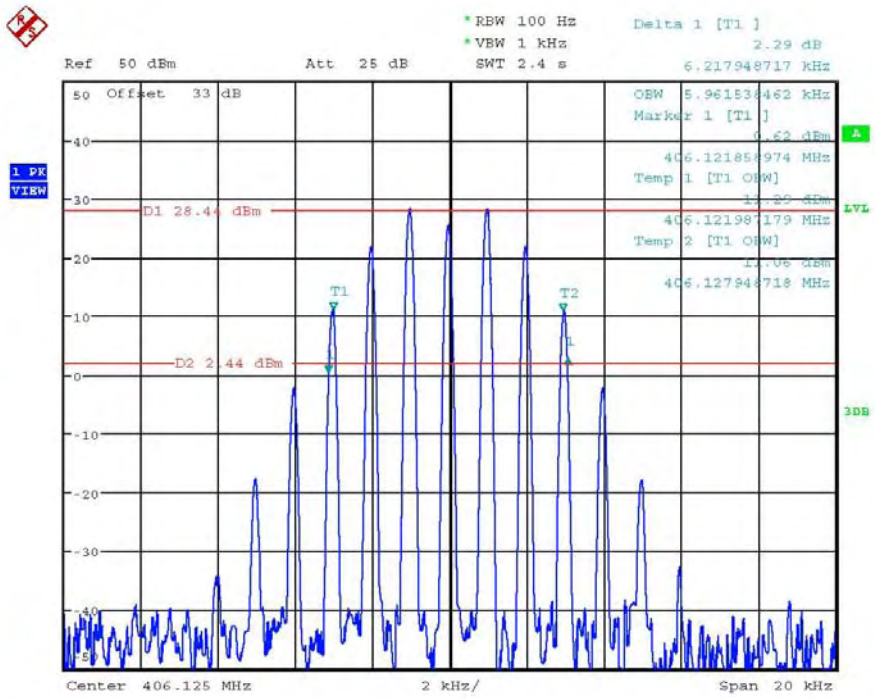


Test equipment used: ETSTW-RE 072

4.3.3 Necessary Bandwidth

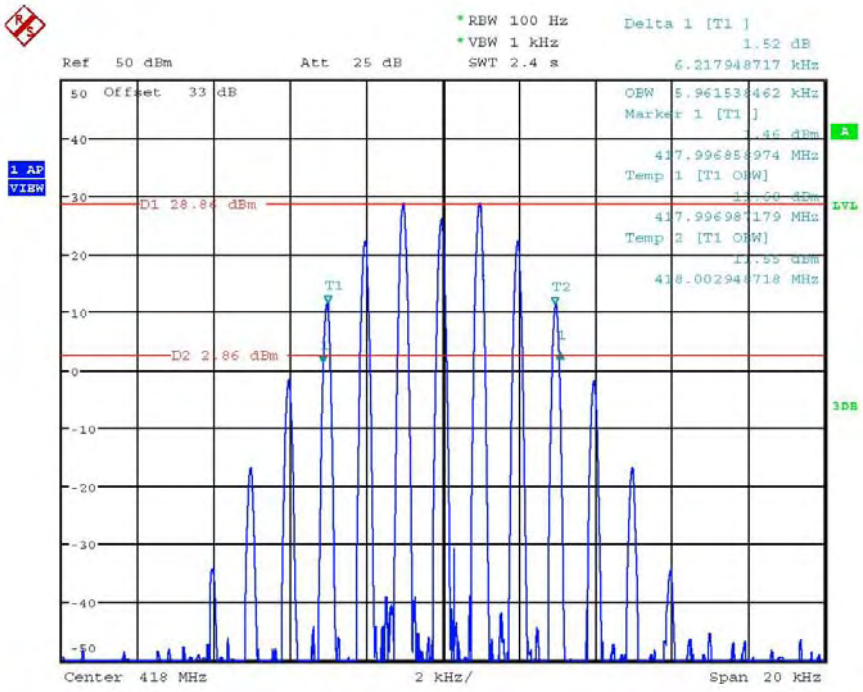
(Mode 1 & 2) 12.5 kHz

Frequency (MHz)	26dB Bandwidth (kHz)	99% Occupied Bandwidth (kHz)	Max. Limit (kHz)
406.125	6.218	5.962	11.25
418	6.218	5.962	11.25
429.975	6.218	5.962	11.25
450.025	6.282	6.058	11.25
460	6.245	6.058	11.25
469.975	6.245	6.058	11.25

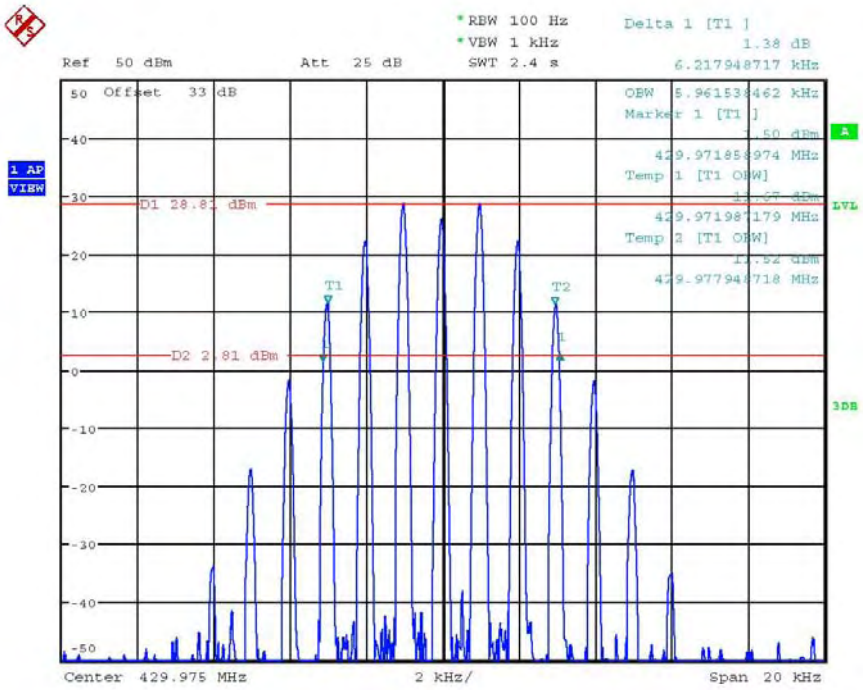


OBW Bandwidth 12.5KHz
Date: 26.OCT.2012 04:08:08

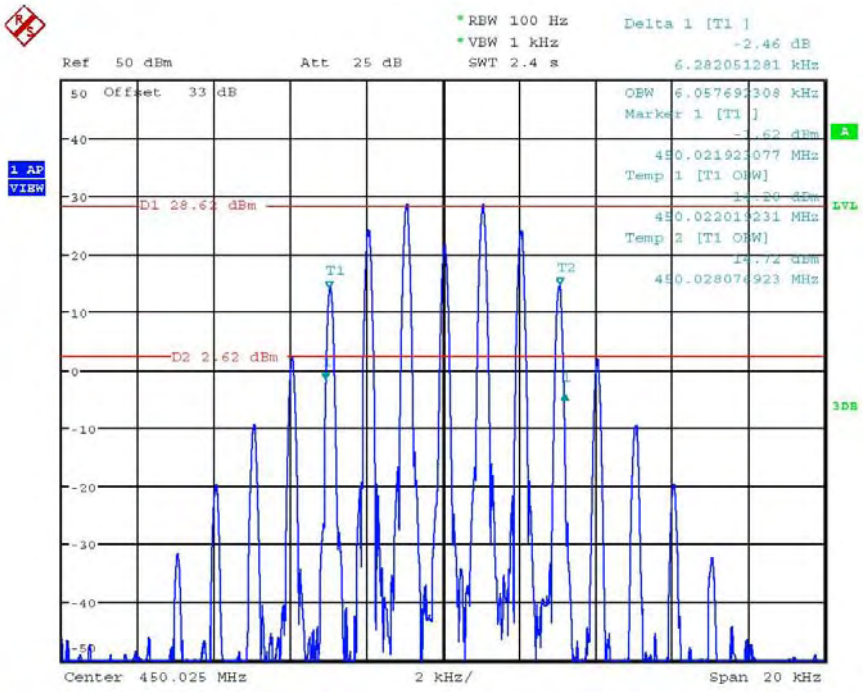
Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B



OBW Bandwidth 12.5KHz
Date: 26.OCT.2012 04:09:44

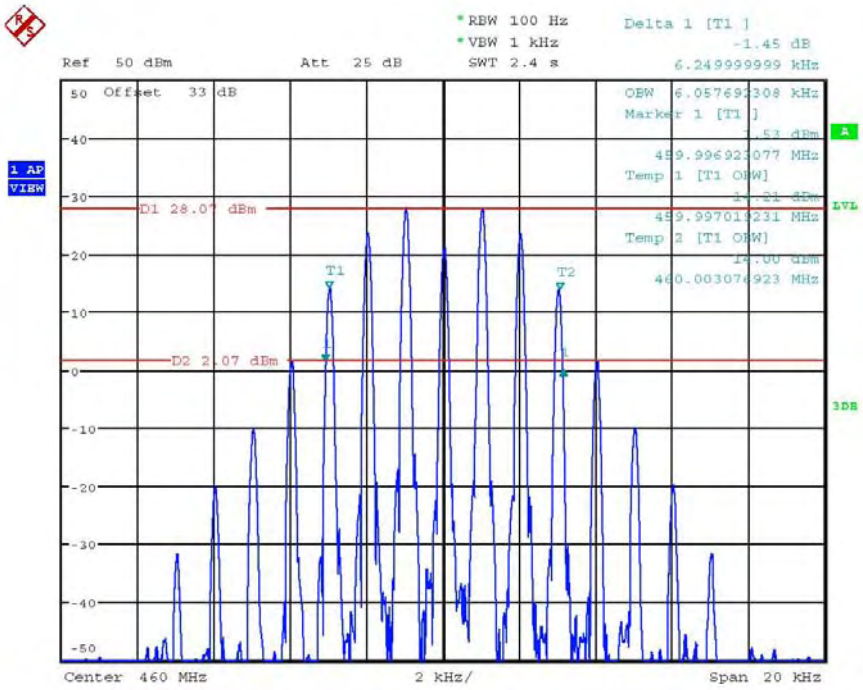


OBW Bandwidth 12.5KHz
Date: 26.OCT.2012 04:11:18



OBW Bandwidth 12.5KHz

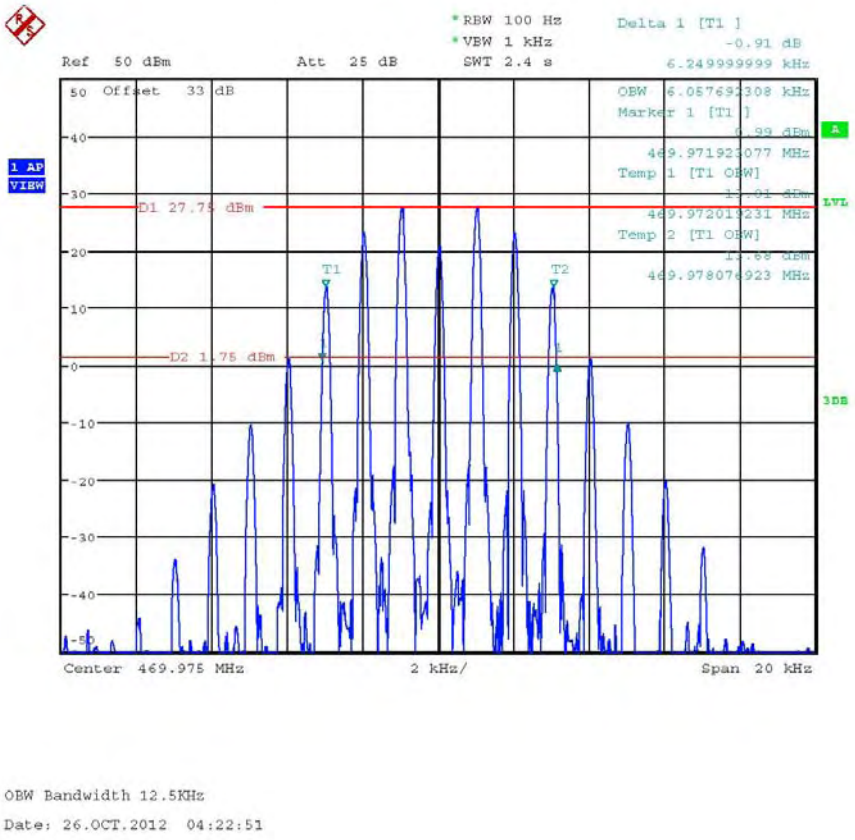
Date: 26.OCT.2012 04:19:56



OBW Bandwidth 12.5KHz

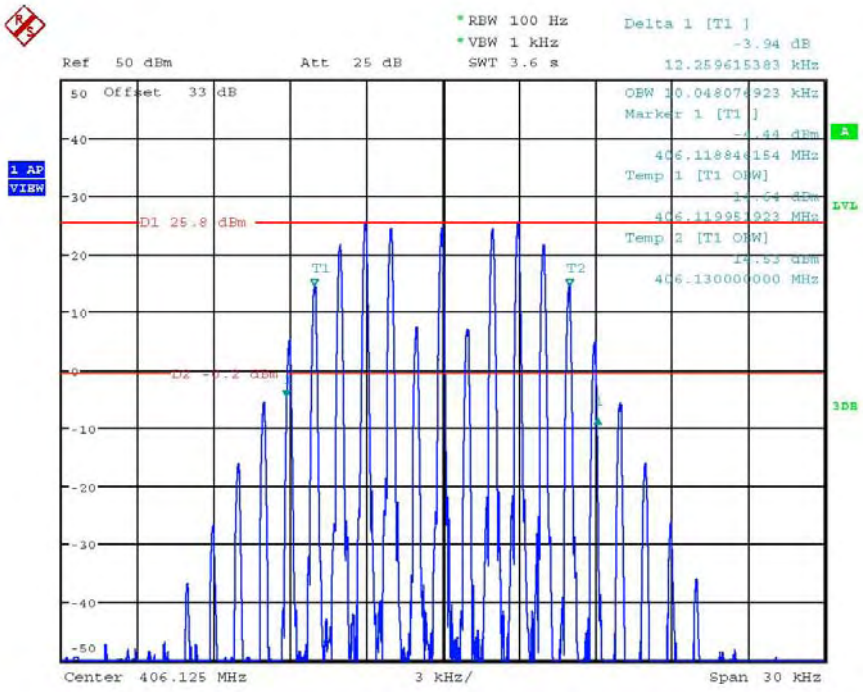
Date: 26.OCT.2012 04:21:31

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B



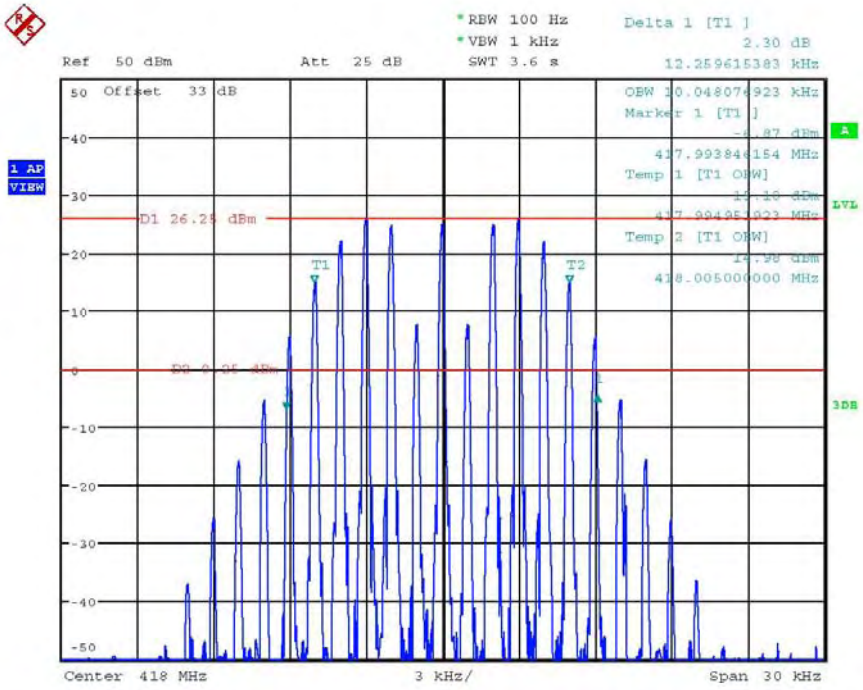
(Mode 3 & 4) 25 kHz

Frequency (MHz)	26dB Bandwidth (kHz)	99% Occupied Bandwidth (kHz)	Max. Limit (kHz)
406.125	12.260	10.048	20
418	12.260	10.048	20
429.975	12.260	10.048	20
450.025	12.260	10.048	20
460	12.260	10.096	20
469.975	12.260	10.096	20



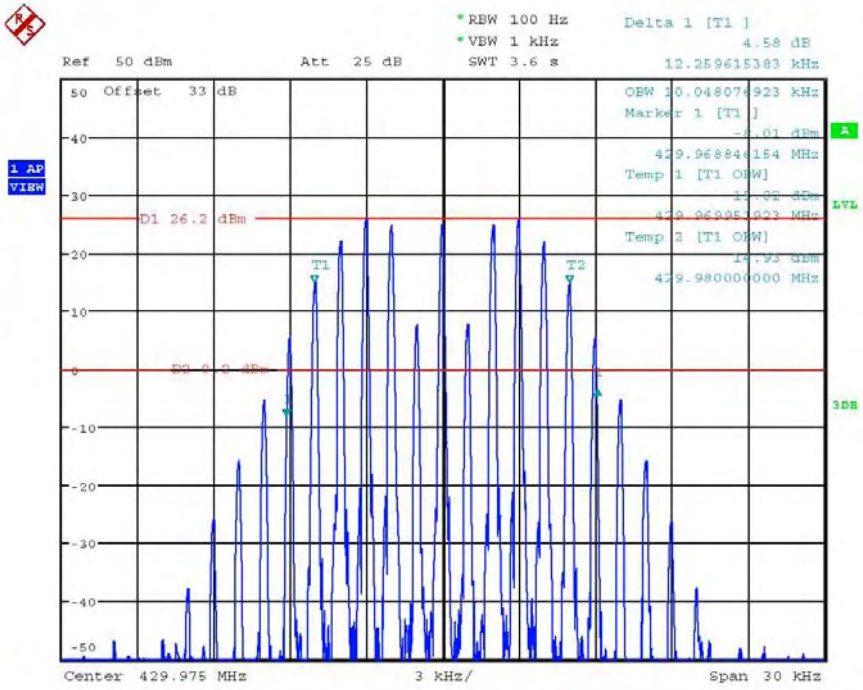
OBW Bandwidth 25KHz

Date: 26.OCT.2012 04:43:07



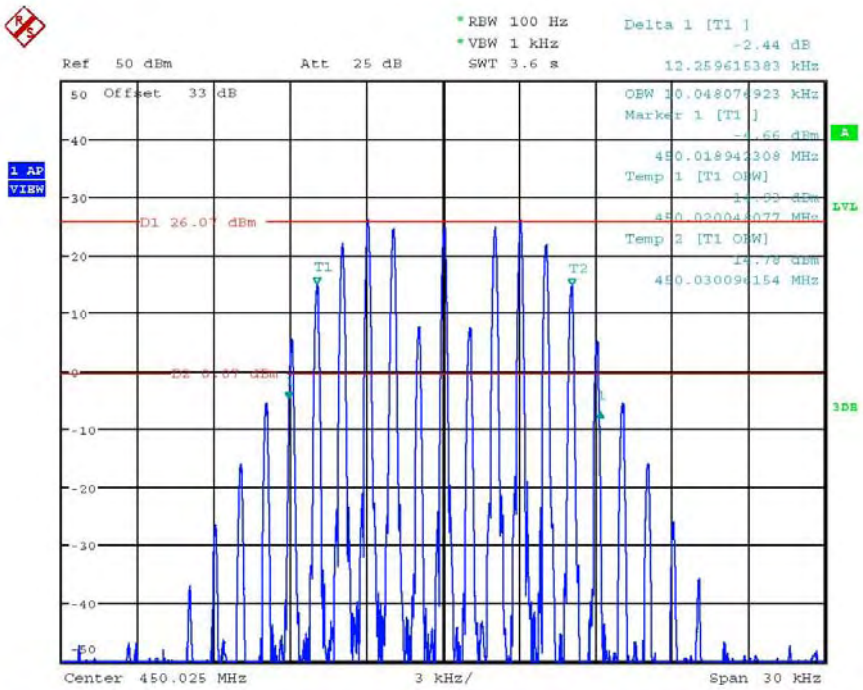
OBW Bandwidth 25KHz

Date: 26.OCT.2012 04:40:41



OBW Bandwidth 25KHz

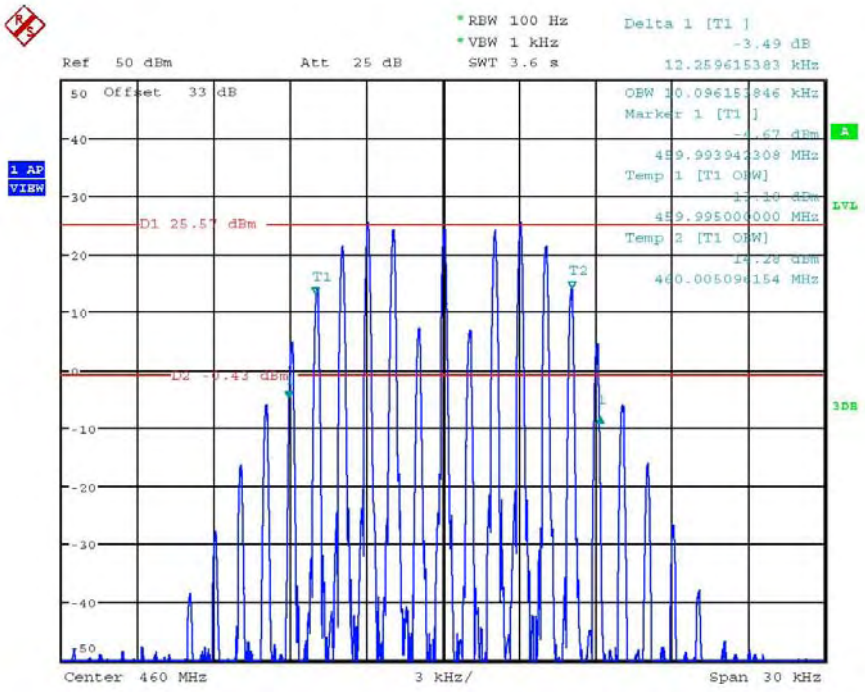
Date: 26.OCT.2012 04:39:27



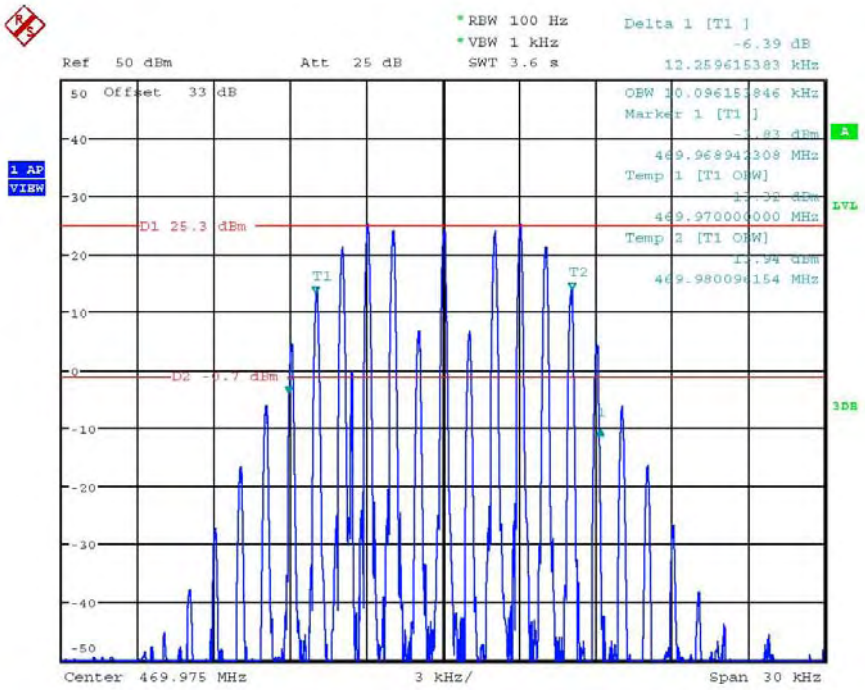
OBW Bandwidth 25KHz

Date: 26.OCT.2012 04:45:44

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B



OBW Bandwidth 25KHz
Date: 26.OCT.2012 04:47:08



OBW Bandwidth 25KHz
Date: 26.OCT.2012 04:48:29

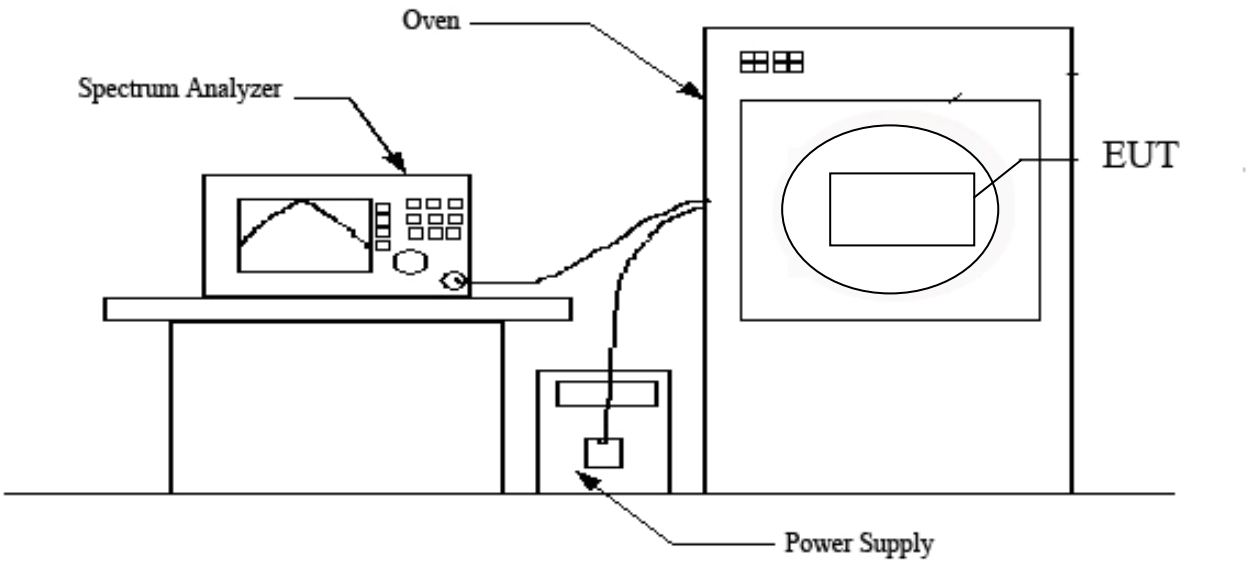
Test equipment used: ETSTW-RE 055, ETSTW-RE072

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℃ to 50℃.
6. Read the frequency of the carrier and calculate the deviation.

5.2 Test Setup



5.3 Test Result

406.1~430MHz

Voltage VS. Frequency Stability	
Voltage	Measurement Frequency
6 VDC	418 MHz
6.9 VDC	418.000031 MHz
5.4 VDC	417.999935 MHz
Max Deviation (MHz)	0.000065
Max Deviation (ppm)	0.155
Limit (ppm)	2.5
Temperature VS. Frequency Stability	
Temperature (℃)	Measurement Frequency
-20.00	417.999915 MHz
-10.00	417.999944 MHz
0.00	417.999882 MHz
10.00	417.999858 MHz
20.00	417.999967 MHz
30.00	417.999973 MHz
40.00	417.999978 MHz
50.00	417.999913 MHz
Max Deviation (MHz)	0.000142
Max Deviation (ppm)	0.34
Limit (ppm)	2.5

450~470MHz

Voltage VS. Frequency Stability	
Voltage	Measurement Frequency
6 VDC	460 MHz
6.9 VDC	460.000054 MHz
5.4 VDC	459.999932 MHz
Max Deviation (MHz)	0.000068 MHz
Max Deviation (ppm)	0.14
Limit (ppm)	2.5
Temperature VS. Frequency Stability	
Temperature (℃)	Measurement Frequency
-20.00	459.999450 MHz
-10.00	459.999738 MHz
0.00	459.999820 MHz
10.00	459.999840 MHz
20.00	460.000021 MHz
30.00	460.000040 MHz
40.00	460.000015 MHz
50.00	460.000006 MHz
Max Deviation (MHz)	0.00055
Max Deviation (ppm)	1.19
Limit (ppm)	2.5

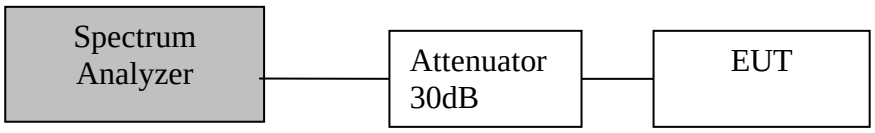
Test equipment used: ETSTW-RE 055

6. Transmitter Output Power

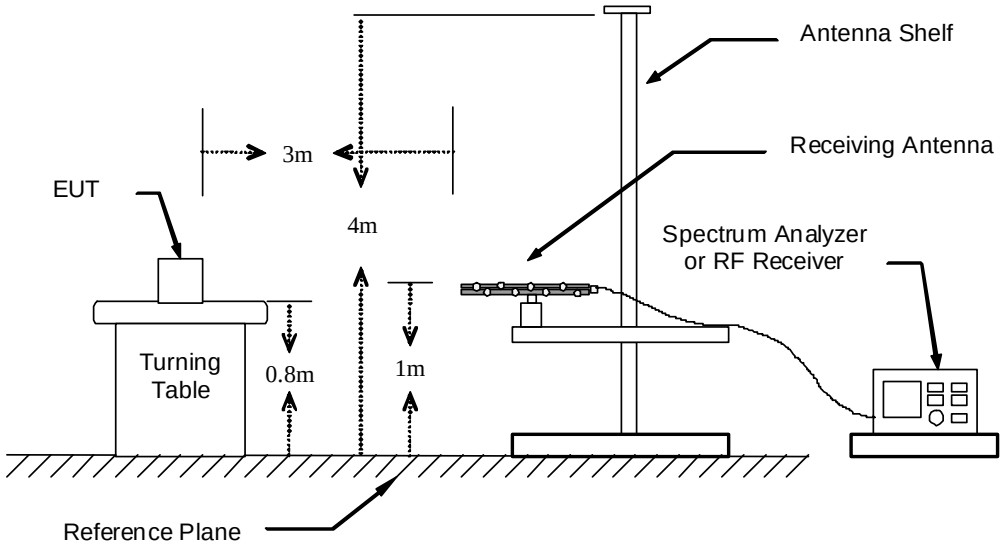
6.1 Test Procedures

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

6.3 Test Result

6.3.1 Conducted Power

12.5 kHz		25 kHz	
406.125 MHz	34.13 dBm	406.125 MHz	34.09 dBm
418 MHz	34.54 dBm	418 MHz	34.63 dBm
429 MHz	34.51 dBm	429 MHz	34.57 dBm
450 MHz	34.47 dBm	450 MHz	34.64 dBm
460 MHz	34.04 dBm	460 MHz	34.01 dBm
469 MHz	33.99 dBm	469 MHz	33.98 dBm

6.3.2 Radiated Power

12.5 kHz

Model: 52-7880LC2B Date: 2012/10/31
Mode: 406.125 MHz Temperature: 24 °C Engineer: Robert
Polarization: Horizontal Humidity: 60 %

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
406.1160	-1.50	26.83	25.33	43.00	-17.67	160	150

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
406.1160	4.05	24.48	28.53	43.00	-14.47	120	150

Mode: 418 MHz
Polarization: Horizontal

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
417.9930	0.12	27.71	27.83	43.00	-15.17	140	150

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
417.9930	4.95	25.34	30.29	43.00	-12.71	125	150

Mode: 429.975 MHz
Polarization: Horizontal

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
429.9660	-2.08	27.27	25.19	43.00	-17.81	125	150

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
429.9660	3.40	25.56	28.96	43.00	-14.04	135	150

Mode: 450.025 MHz
Polarization: Horizontal

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
450.0120	-1.87	26.94	25.07	43.00	-17.93	135	150

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
450.0160	4.00	26.41	30.41	43.00	-12.59	140	150

Mode: 460 MHz
Polarization: Horizontal

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
459.9950	-1.65	27.19	25.54	43.00	-17.46	155	150

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
459.9930	5.17	27.18	32.35	43.00	-10.65	140	150

Mode: 469.975 MHz
Polarization: Horizontal

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
469.9620	-4.73	26.98	22.25	43.00	-20.75	180	150

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
469.9680	3.90	27.53	31.43	43.00	-11.57	130	150

25 kHz

Mode: 406.125 MHz
Polarization: Horizontal

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
406.1180	-0.41	26.83	26.42	43.00	-16.58	160	150

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
406.1180	3.73	24.48	28.21	43.00	-14.79	125	150

Mode: 418 MHz
Polarization: Horizontal

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
417.9910	0.15	27.71	27.86	43.00	-15.14	140	150

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
417.9930	5.22	25.34	30.56	43.00	-12.44	145	150

Mode: 429.975 MHz
Polarization: Horizontal

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
429.9660	-2.77	27.27	24.50	43.00	-18.50	140	150

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
429.9680	3.96	25.56	29.52	43.00	-13.48	130	150

Mode: 450.025 MHz
Polarization: Horizontal

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
450.0160	-2.27	26.94	24.67	43.00	-18.33	160	150

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
450.0160	5.19	26.41	31.60	43.00	-11.40	155	150

Mode: 460 MHz
Polarization: Horizontal

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
459.9910	-2.65	27.19	24.54	43.00	-18.46	160	150

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
459.9910	5.48	27.18	32.66	43.00	-10.34	170	150

Mode: 469.975 MHz
Polarization: Horizontal

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
469.9640	-4.41	26.98	22.57	43.00	-20.43	140	150

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
469.9660	3.96	27.53	31.49	43.00	-11.51	140	150

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

Note: See attached diagrams in appendix.

6.4 Limit

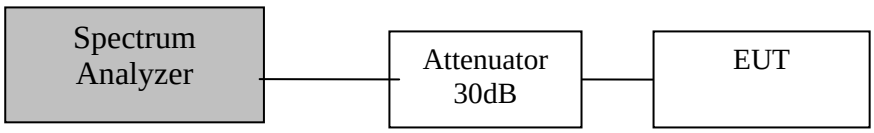
Power limit according to FCC § 90.261: 20 watts (43 dBm)

7. Emission masks

7.1 Test Procedures

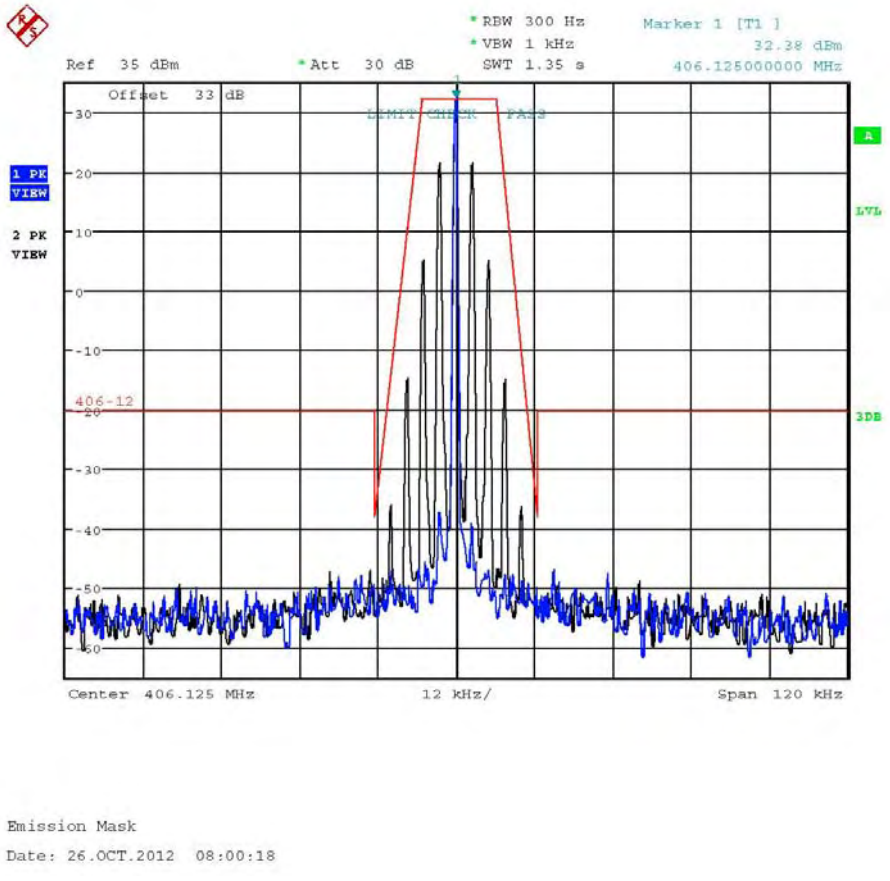
1. The transmitter output is connected to the spectrum analyzer through an attenuator.
2. Set RBW of spectrum analyzer to 300Hz and VBW to 1 kHz.
3. Mark the frequency with maximum peak power as the center of the display of the spectrum
4. Set the span to 120 kHz and the sweep time to Auto.
5. Record the power spectral and compare to the Mask.

7.2 Test Setup

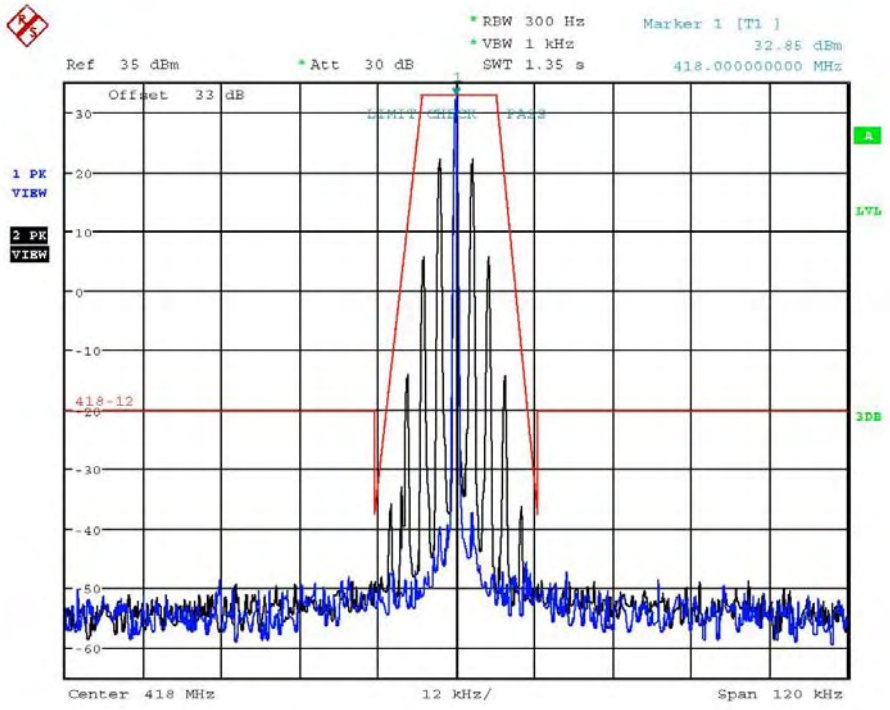


7.3 Test Result

12.5 kHz



Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B



Emission Mask
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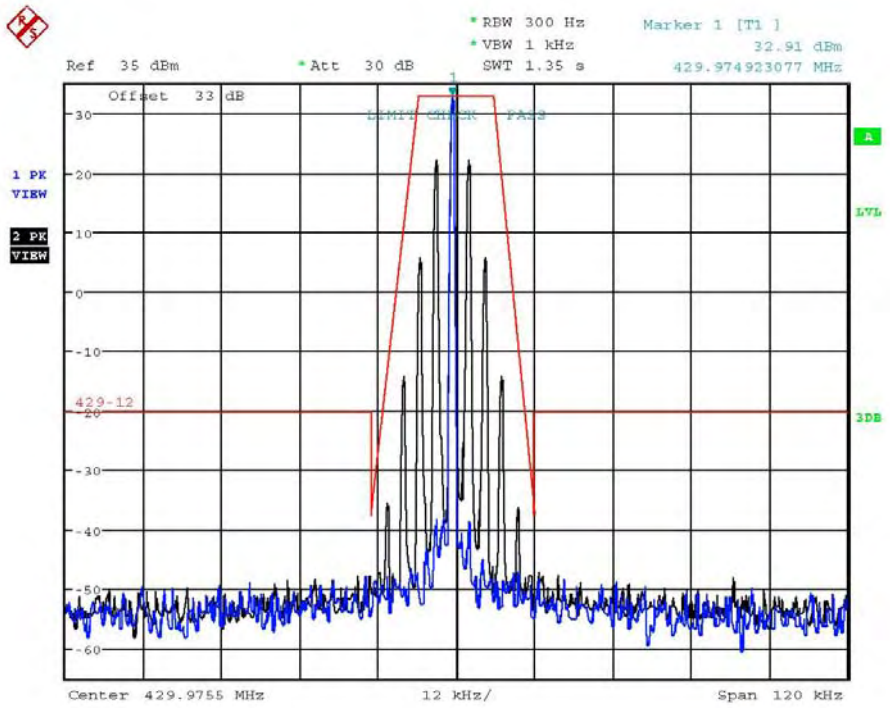

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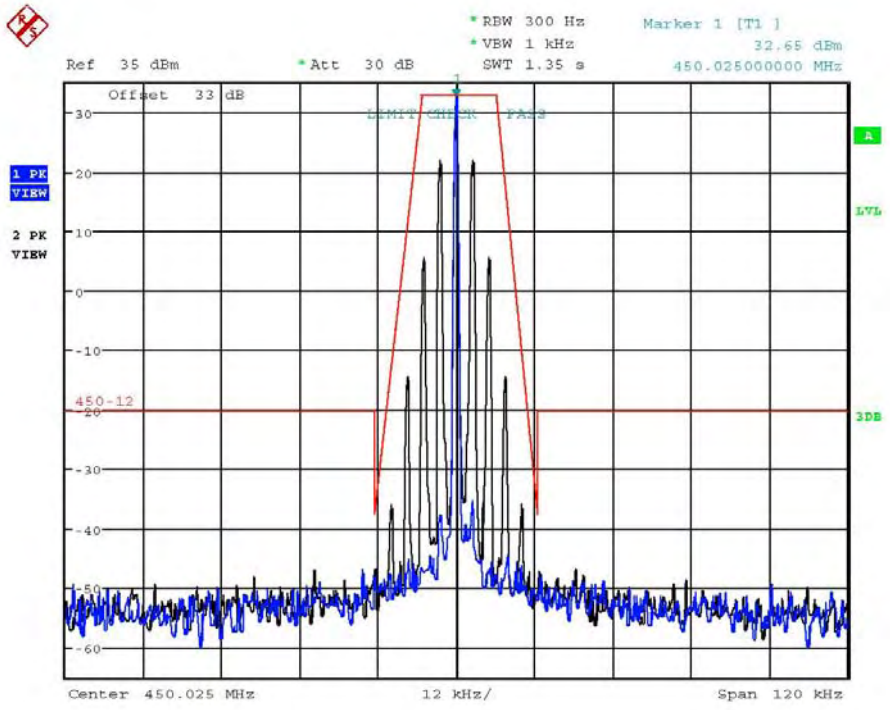

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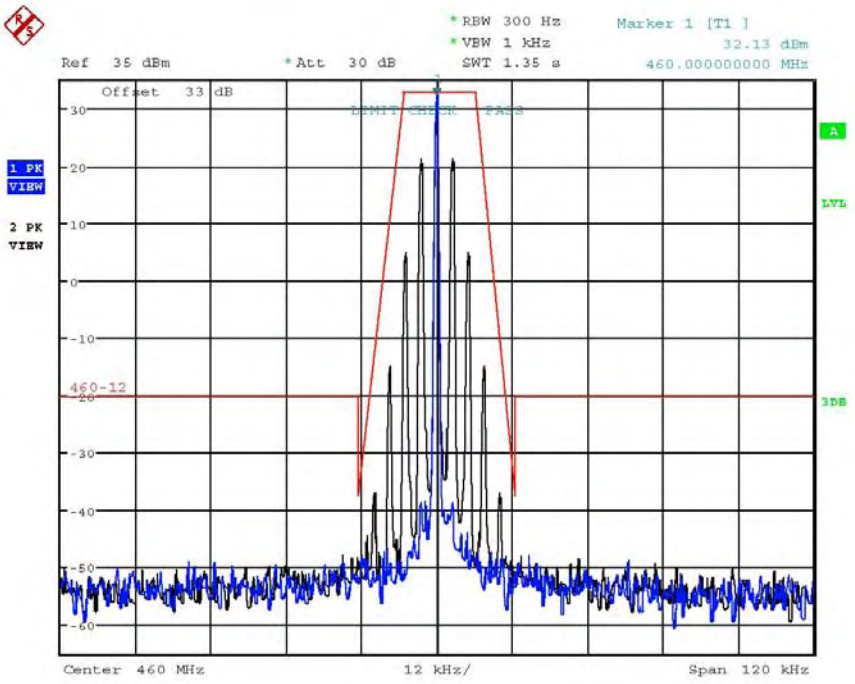

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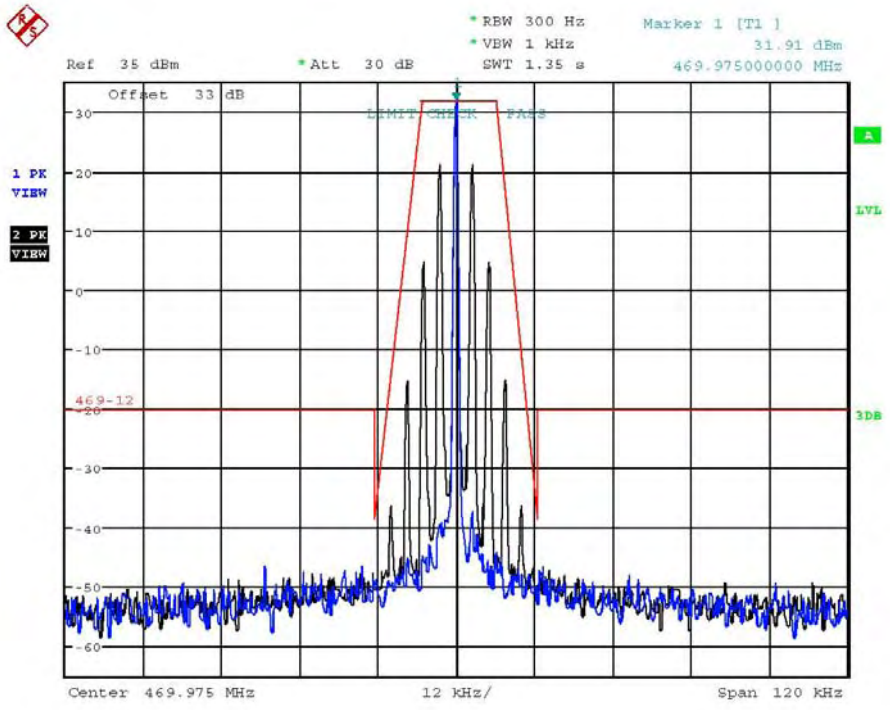
Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B



Emission Mask
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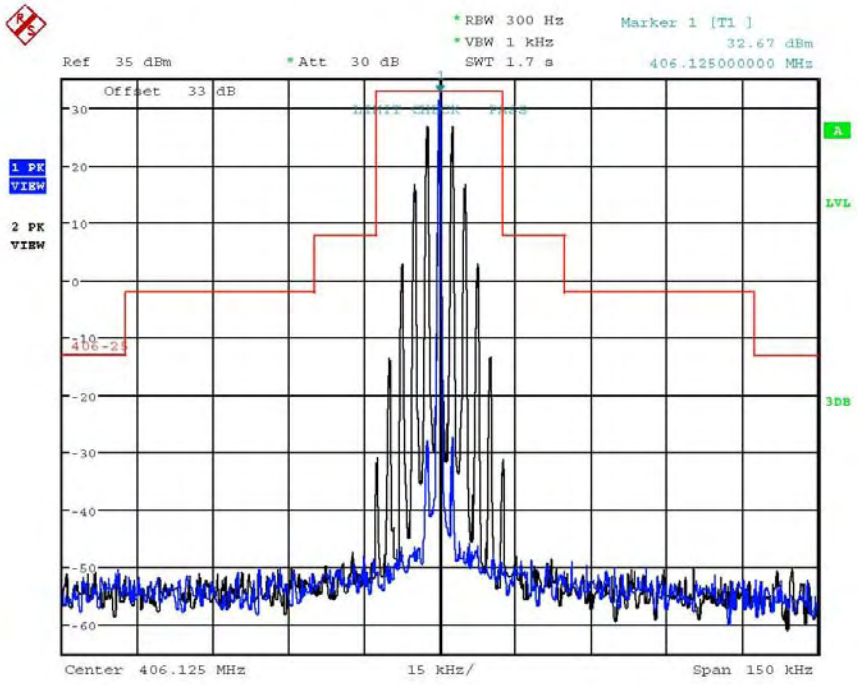
25 kHz



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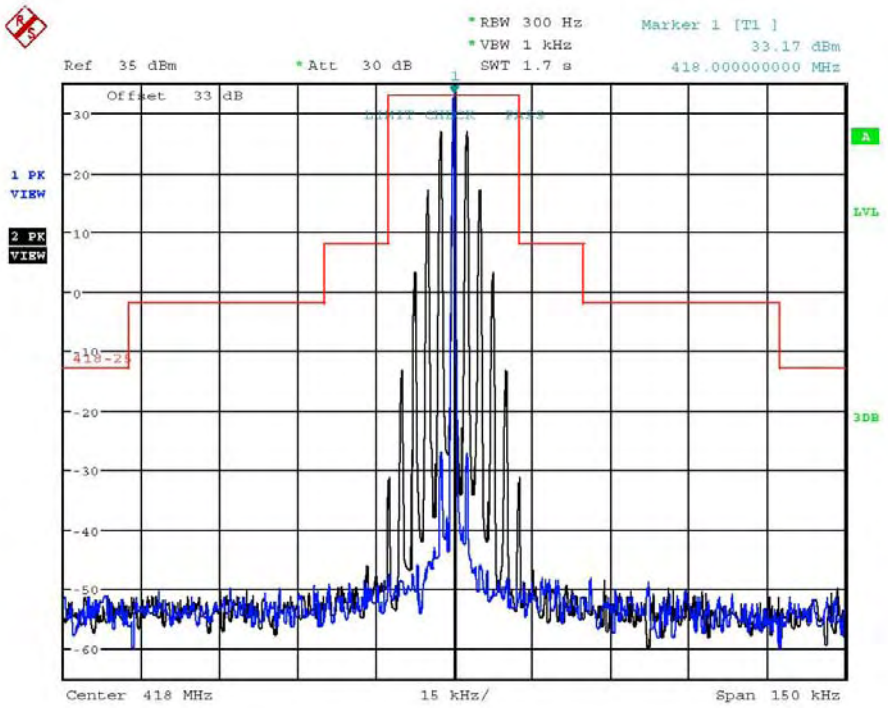

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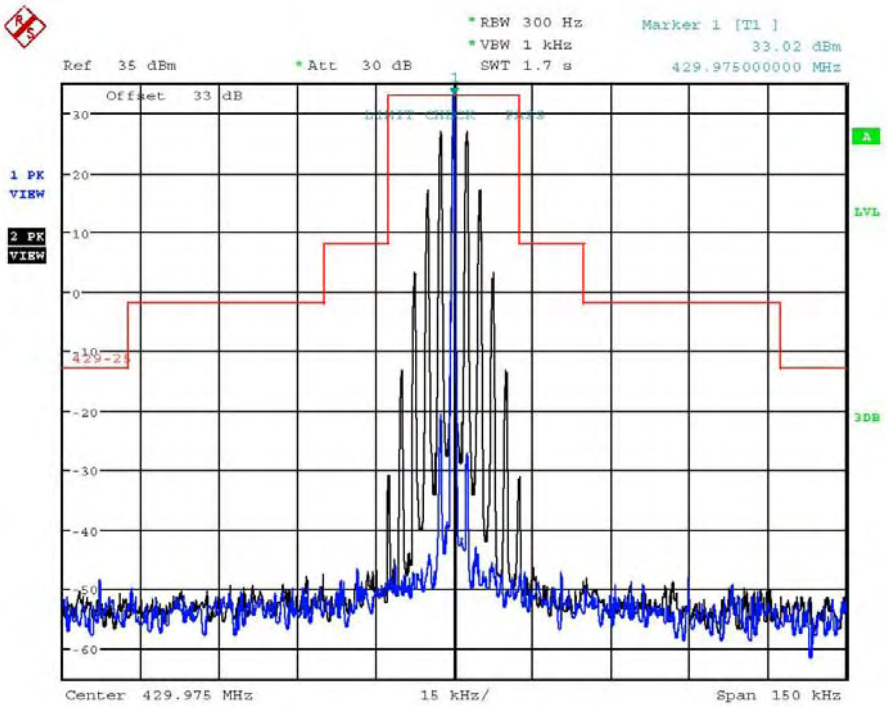

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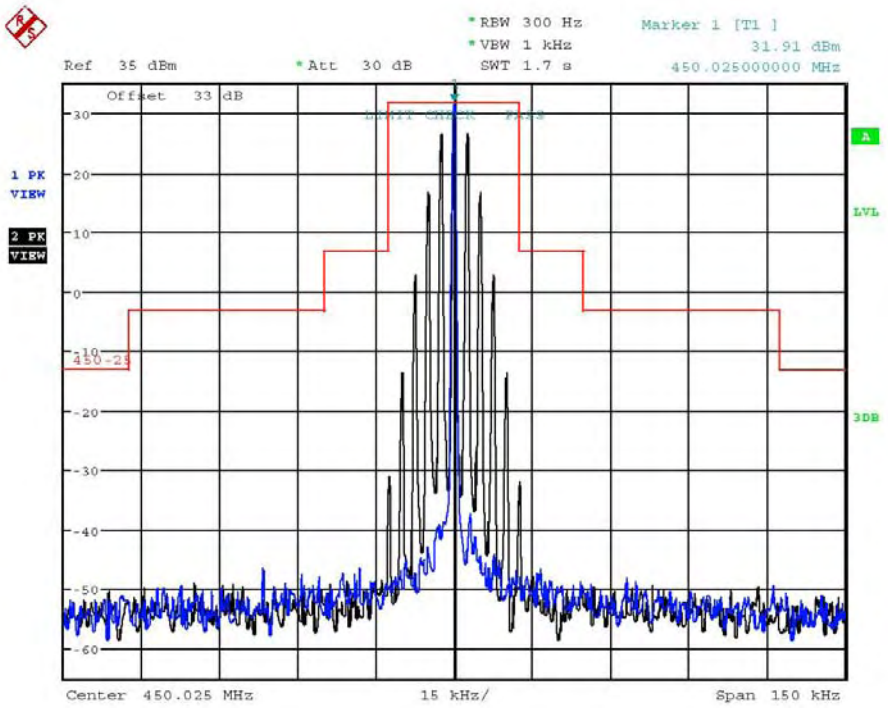

Emission Mask

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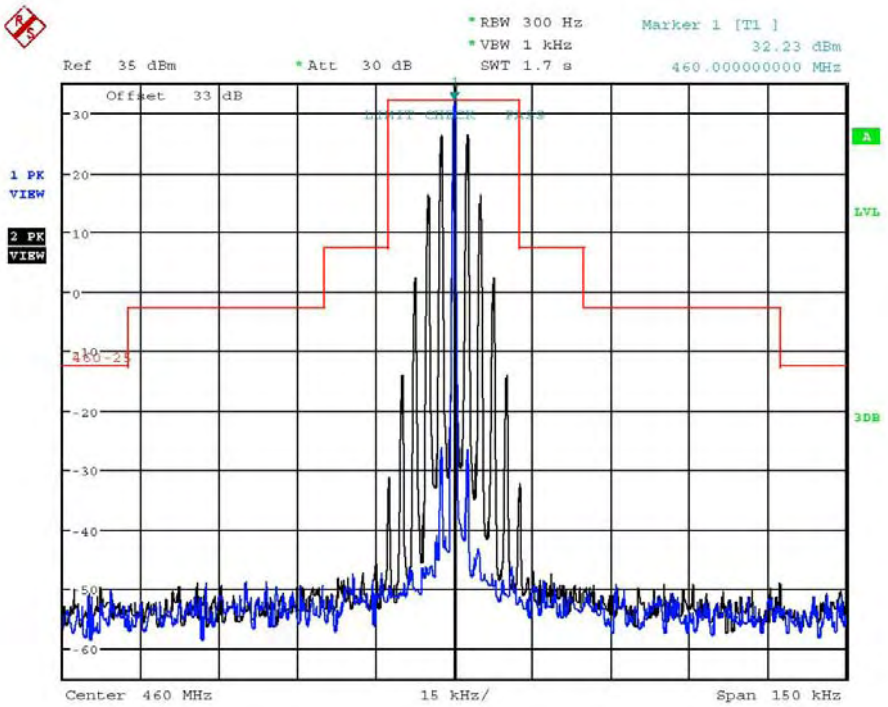

Emission Mask

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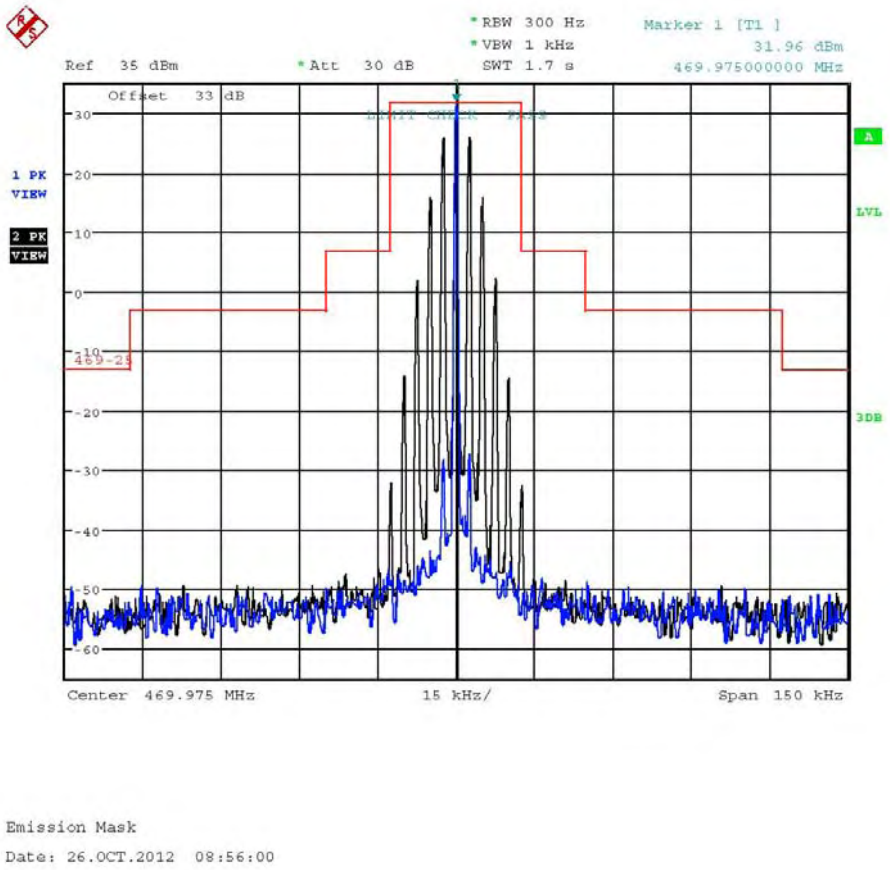
Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B



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

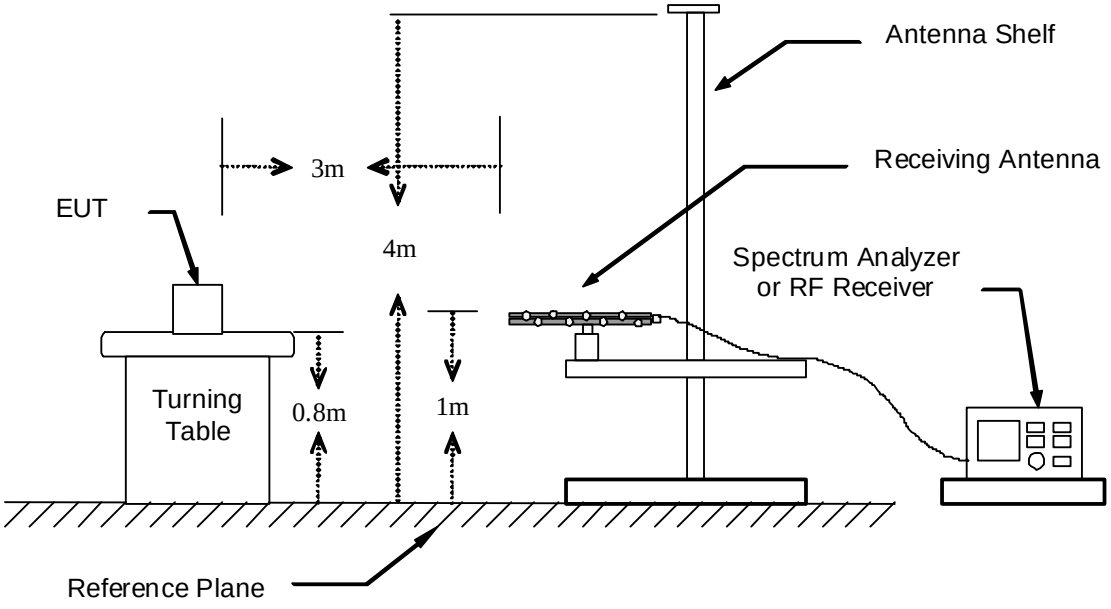
Test equipment used: ETSTW-RE 055, ETSTW-RE072

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



8.3 Test Result

12.5 kHz

Model: 52-7880LC2B Date: 2012/10/31
Mode: 406.125 MHz Temperature: 24 °C Engineer: Robert
Polarization: Horizontal Humidity: 60 %

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
91.6633	-84.75	20.81	-63.94	-13.00	-50.94	140	150
812.4248	-72.83	31.26	-41.57	-13.00	-28.57	120	150
1625.2510	-48.45	0.77	-47.68	-13.00	-34.68	155	150
2436.8740	-49.28	4.00	-45.28	-13.00	-32.28	140	150
2845.6910	-49.59	5.89	-43.70	-13.00	-30.70	160	150
3248.4970	-50.98	7.02	-43.96	-13.00	-30.96	145	150

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
97.7956	-81.94	22.16	-59.78	-13.00	-46.78	120	150
812.4248	-60.98	32.53	-28.45	-13.00	-15.45	100	150
1216.4330	-50.06	0.22	-49.84	-13.00	-36.84	140	150
1625.2510	-49.63	-1.63	-51.26	-13.00	-38.26	160	150
3248.4970	-51.52	7.29	-44.23	-13.00	-31.23	200	150
3657.3150	-55.39	8.39	-47.00	-13.00	-34.00	185	150

Mode: 418 MHz
Polarization: Horizontal

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
91.6633	-85.76	20.81	-64.95	-13.00	-51.95	120	150
836.4730	-62.05	32.26	-29.79	-13.00	-16.79	125	150
1252.5050	-38.48	-0.47	-38.95	-13.00	-25.95	130	150
1673.3470	-44.55	0.93	-43.62	-13.00	-30.62	145	150
2088.1760	-45.13	2.63	-42.50	-13.00	-29.50	140	150
3344.6890	-46.58	7.58	-39.00	-13.00	-26.00	160	150

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
97.7956	-81.91	22.16	-59.75	-13.00	-46.75	155	150
836.4730	-61.78	32.68	-29.10	-13.00	-16.10	160	150
1673.3470	-46.16	-0.10	-46.26	-13.00	-33.26	145	150
2088.1760	-48.42	2.18	-46.24	-13.00	-33.24	180	150
2923.8480	-49.40	7.47	-41.93	-13.00	-28.93	160	150
3344.6890	-49.27	6.92	-42.35	-13.00	-29.35	135	150

Mode: 429.975 MHz
Polarization: Horizontal

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
43.6273	-85.17	22.47	-62.70	-13.00	-49.70	130	150
860.5210	-64.02	33.15	-30.87	-13.00	-17.87	180	150
1288.5770	-47.73	0.03	-47.70	-13.00	-34.70	140	150
1721.4430	-48.80	1.15	-47.65	-13.00	-34.65	130	150
2148.2970	-47.84	2.13	-45.71	-13.00	-32.71	175	150
3008.0160	-50.33	8.48	-41.85	-13.00	-28.85	160	150

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
97.7956	-80.95	22.16	-58.79	-13.00	-45.79	135	150
860.5210	-65.13	32.68	-32.45	-13.00	-19.45	120	150
2148.2970	-45.96	2.80	-43.16	-13.00	-30.16	120	150
3008.0160	-54.97	7.02	-47.95	-13.00	-34.95	140	150
3440.8820	-57.94	8.00	-49.94	-13.00	-36.94	190	150
3873.7470	-59.16	9.53	-49.63	-13.00	-36.63	135	150

Mode: 450.025 MHz
Polarization: Horizontal

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
91.6633	-85.66	20.81	-64.85	-13.00	-51.85	145	150
900.6012	-64.66	34.34	-30.32	-13.00	-17.32	150	150
1348.6970	-47.62	0.63	-46.99	-13.00	-33.99	120	150
1799.5990	-51.65	1.63	-50.02	-13.00	-37.02	140	150
2250.5010	-48.36	4.01	-44.35	-13.00	-31.35	135	150
3603.2060	-56.53	8.87	-47.66	-13.00	-34.66	140	150

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
97.7956	-81.90	22.16	-59.74	-13.00	-46.74	140	150
900.6012	-68.41	32.34	-36.07	-13.00	-23.07	140	150
1348.6970	-48.33	-1.64	-49.97	-13.00	-36.97	140	150
1799.5990	-54.88	1.39	-53.49	-13.00	-40.49	160	150
2250.5010	-51.76	4.29	-47.47	-13.00	-34.47	155	150
2701.4030	-53.52	6.42	-47.10	-13.00	-34.10	135	150

Mode: 460 MHz
Polarization: Horizontal

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
91.6633	-86.54	20.81	-65.73	-13.00	-52.73	135	150
921.4430	-67.67	33.77	-33.90	-13.00	-20.90	165	150
1378.7570	-50.96	0.91	-50.05	-13.00	-37.05	180	150
2298.5970	-42.83	6.11	-36.72	-13.00	-23.72	140	150
2761.5230	-53.05	6.30	-46.75	-13.00	-33.75	135	150
3681.3630	-58.42	8.64	-49.78	-13.00	-36.78	160	150

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
97.7956	-81.15	22.16	-58.99	-13.00	-45.99	130	150
919.8397	-72.23	32.28	-39.95	-13.00	-26.95	135	150
1835.6710	-44.37	1.23	-43.14	-13.00	-30.14	140	150
2298.5970	-53.30	4.91	-48.39	-13.00	-35.39	155	150
3224.4490	-53.61	7.76	-45.85	-13.00	-32.85	130	150
3681.3630	-55.67	8.74	-46.93	-13.00	-33.93	170	150

Mode: 469.975 MHz
Polarization: Horizontal

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
91.6633	-86.37	20.81	-65.56	-13.00	-52.56	125	150
940.6814	-67.93	33.24	-34.69	-13.00	-21.69	165	150
1408.8180	-39.02	0.99	-38.03	-13.00	-25.03	135	150
1877.7550	-46.65	1.26	-45.39	-13.00	-32.39	185	150
2346.6930	-39.45	5.03	-34.42	-13.00	-21.42	140	150
3290.5810	-52.65	7.40	-45.25	-13.00	-32.25	160	150

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
97.7956	-81.05	22.16	-58.89	-13.00	-45.89	140	150
940.6814	-71.33	32.21	-39.12	-13.00	-26.12	155	150
1408.8180	-35.61	-1.75	-37.36	-13.00	-24.36	180	150
2346.6930	-39.08	4.69	-34.39	-13.00	-21.39	165	150
2821.6430	-51.90	5.13	-46.77	-13.00	-33.77	130	150
3759.5190	-54.19	9.63	-44.56	-13.00	-31.56	195	150

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

25 kHz

Mode: 406.125 MHz
Polarization: Horizontal

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
91.6633	-85.84	20.81	-65.03	-13.00	-52.03	125	150
812.4248	-61.23	31.26	-29.97	-13.00	-16.97	160	150
1216.4330	-51.10	-0.97	-52.07	-13.00	-39.07	130	150
1625.2510	-52.58	0.77	-51.81	-13.00	-38.81	160	150
2436.8740	-48.28	4.00	-44.28	-13.00	-31.28	200	150
2845.6910	-47.95	5.89	-42.06	-13.00	-29.06	140	150

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
97.7956	-81.15	22.16	-58.99	-13.00	-45.99	130	150
812.4248	-63.25	32.53	-30.72	-13.00	-17.72	120	150
1216.4330	-46.18	0.22	-45.96	-13.00	-32.96	160	150
2436.8740	-53.44	4.33	-49.11	-13.00	-36.11	210	150
3248.4970	-50.31	7.29	-43.02	-13.00	-30.02	185	150
3657.3150	-55.82	8.39	-47.43	-13.00	-34.43	140	150

Mode: 418 MHz
Polarization: Horizontal

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
91.6633	-85.99	20.81	-65.18	-13.00	-52.18	160	150
836.4730	-62.02	32.26	-29.76	-13.00	-16.76	160	150
1252.5050	-38.76	-0.47	-39.23	-13.00	-26.23	145	150
2088.1760	-43.14	2.63	-40.51	-13.00	-27.51	135	150
2929.8600	-46.07	6.28	-39.79	-13.00	-26.79	150	150
3344.6890	-49.49	7.58	-41.91	-13.00	-28.91	140	150

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
97.7956	-82.27	22.16	-60.11	-13.00	-47.11	130	150
836.4730	-62.77	32.68	-30.09	-13.00	-17.09	155	150
1252.5050	-33.69	-0.39	-34.08	-13.00	-21.08	160	150
1673.3470	-44.76	-0.10	-44.86	-13.00	-31.86	140	150
2923.8480	-49.16	7.47	-41.69	-13.00	-28.69	140	150
3344.6890	-51.05	6.92	-44.13	-13.00	-31.13	135	150

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

Mode: 429.975 MHz
Polarization: Horizontal

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
91.6633	-86.14	20.81	-65.33	-13.00	-52.33	140	150
860.5210	-65.68	33.15	-32.53	-13.00	-19.53	175	150
1288.5770	-44.44	0.03	-44.41	-13.00	-31.41	120	150
2148.2970	-43.72	2.13	-41.59	-13.00	-28.59	120	150
3008.0160	-53.12	8.48	-44.64	-13.00	-31.64	140	150
3873.7470	-55.10	9.50	-45.60	-13.00	-32.60	135	150

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
97.7956	-82.14	22.16	-59.98	-13.00	-46.98	140	150
860.5210	-66.73	32.68	-34.05	-13.00	-21.05	120	150
1288.5770	-47.82	-0.99	-48.81	-13.00	-35.81	135	150
3008.0160	-46.24	7.02	-39.22	-13.00	-26.22	130	150
3440.8820	-58.45	8.00	-50.45	-13.00	-37.45	110	150
3873.7470	-57.75	9.53	-48.22	-13.00	-35.22	140	150

Mode: 450.025 MHz
Polarization: Horizontal

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
91.6633	-85.43	20.81	-64.62	-13.00	-51.62	120	150
900.6012	-66.11	34.34	-31.77	-13.00	-18.77	140	150
1348.6970	-47.00	0.63	-46.37	-13.00	-33.37	135	150
1799.5990	-52.08	1.63	-50.45	-13.00	-37.45	140	150
2250.5010	-43.29	4.01	-39.28	-13.00	-26.28	155	150
2701.4030	-47.90	6.16	-41.74	-13.00	-28.74	110	150

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
97.7956	-82.37	22.16	-60.21	-13.00	-47.21	140	150
900.6012	-67.55	32.34	-35.21	-13.00	-22.21	145	150
2250.5010	-56.14	4.29	-51.85	-13.00	-38.85	140	150
2701.4030	-55.08	6.42	-48.66	-13.00	-35.66	120	150
3152.3050	-58.65	7.66	-50.99	-13.00	-37.99	130	150
3801.6030	-62.26	10.05	-52.21	-13.00	-39.21	135	150

Mode: 460 MHz
Polarization: Horizontal

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
91.6633	-86.36	20.81	-65.55	-13.00	-52.55	130	150
921.4430	-69.71	33.77	-35.94	-13.00	-22.94	140	150
1378.7570	-43.82	0.91	-42.91	-13.00	-29.91	150	150
2298.5970	-44.47	6.11	-38.36	-13.00	-25.36	140	150
2761.5230	-52.49	6.30	-46.19	-13.00	-33.19	130	150
3224.4490	-52.13	6.79	-45.34	-13.00	-32.34	115	150

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
97.7956	-81.48	22.16	-59.32	-13.00	-46.32	180	150
921.4430	-68.59	32.27	-36.32	-13.00	-23.32	170	150
1841.6830	-42.13	1.20	-40.93	-13.00	-27.93	120	150
2298.5970	-48.23	4.91	-43.32	-13.00	-30.32	200	150
2761.5230	-49.80	5.22	-44.58	-13.00	-31.58	210	150
3224.4490	-49.81	7.76	-42.05	-13.00	-29.05	155	150

Mode: 469.975 MHz
Polarization: Horizontal

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
91.6633	-85.35	20.81	-64.54	-13.00	-51.54	150	150
940.6814	-66.81	33.24	-33.57	-13.00	-20.57	145	150
1877.7550	-41.51	1.26	-40.25	-13.00	-27.25	135	150
2346.6930	-39.00	5.03	-33.97	-13.00	-20.97	140	150
2821.6430	-43.38	6.15	-37.23	-13.00	-24.23	160	150
3290.5810	-46.10	7.40	-38.70	-13.00	-25.70	120	150

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
97.7956	-82.35	22.16	-60.19	-13.00	-47.19	135	150
940.6814	-68.57	32.21	-36.36	-13.00	-23.36	130	150
1408.8180	-36.52	-1.75	-38.27	-13.00	-25.27	165	150
1877.7550	-42.06	1.03	-41.03	-13.00	-28.03	190	150
2346.6930	-40.42	4.69	-35.73	-13.00	-22.73	120	150
2821.6430	-47.71	5.13	-42.58	-13.00	-29.58	210	150

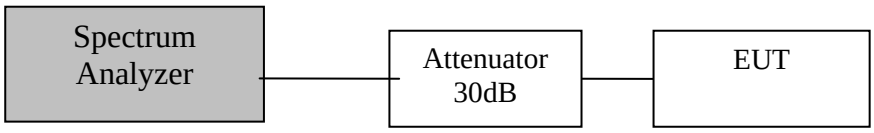
Test equipment used: ETSTW-RE 055, ETSTW-RE 072

9. Transmitter Spurious Conducted Emission

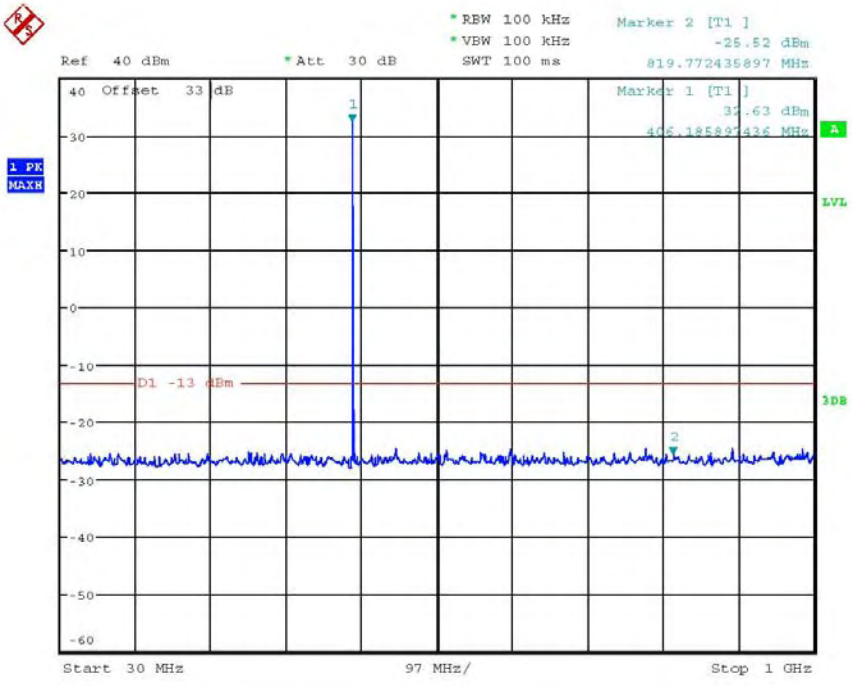
9.1 Test Procedures

1. The transmitter output is connected to the spectrum analyzer through an attenuator.
2. Adjust the spectrum analyzer for the following settings:
   - Resolution Bandwidth = 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.
3. Limits=P (dBm)+10log(P(W)) = -13dBm

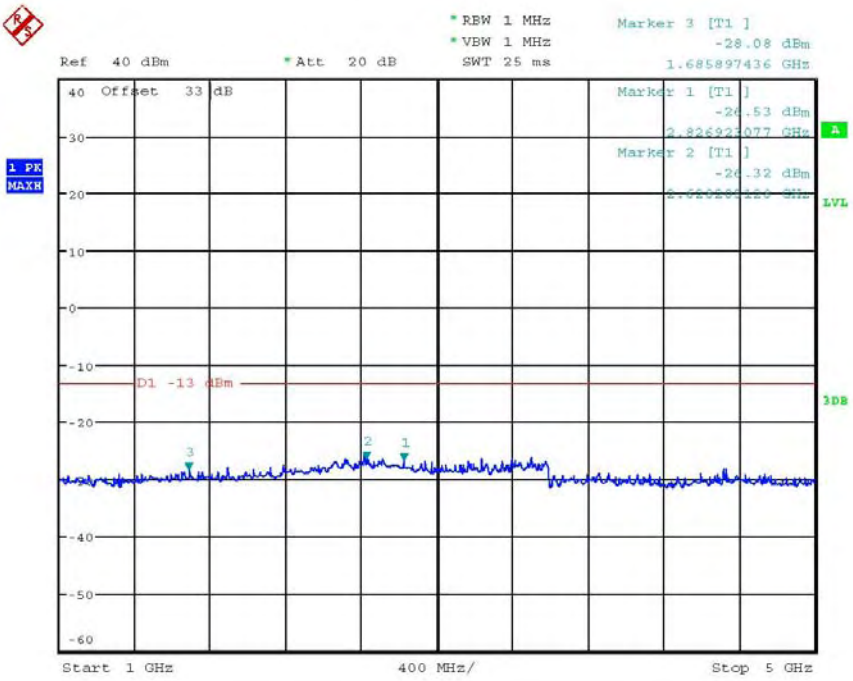
9.2 Test Setup



9.3 Test Result



Conducted Spurious Emission 406.125MHz 12.5k
Date: 26.OCT.2012 06:48:47



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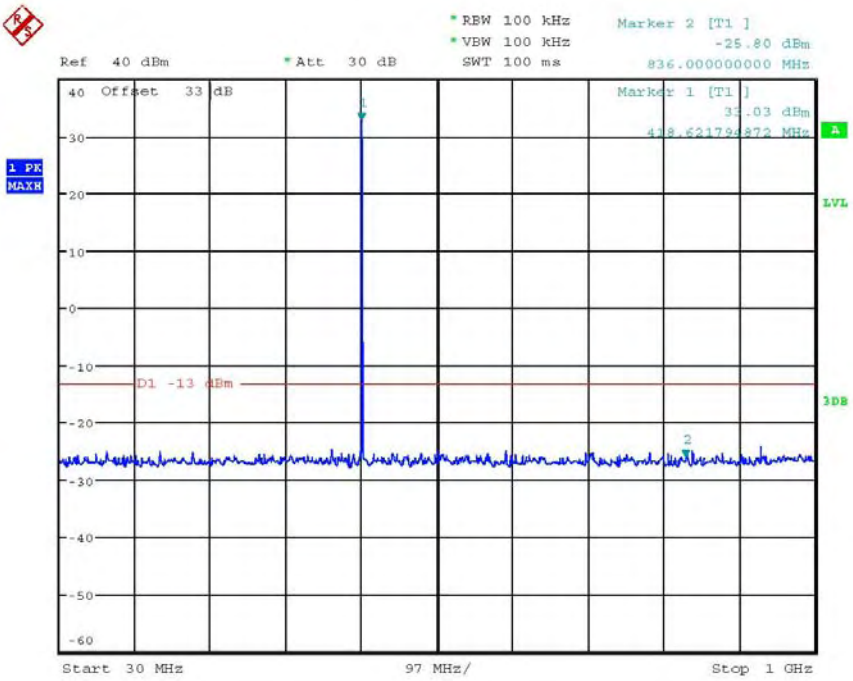

Conducted Spurious Emission 418MHz 12.5k
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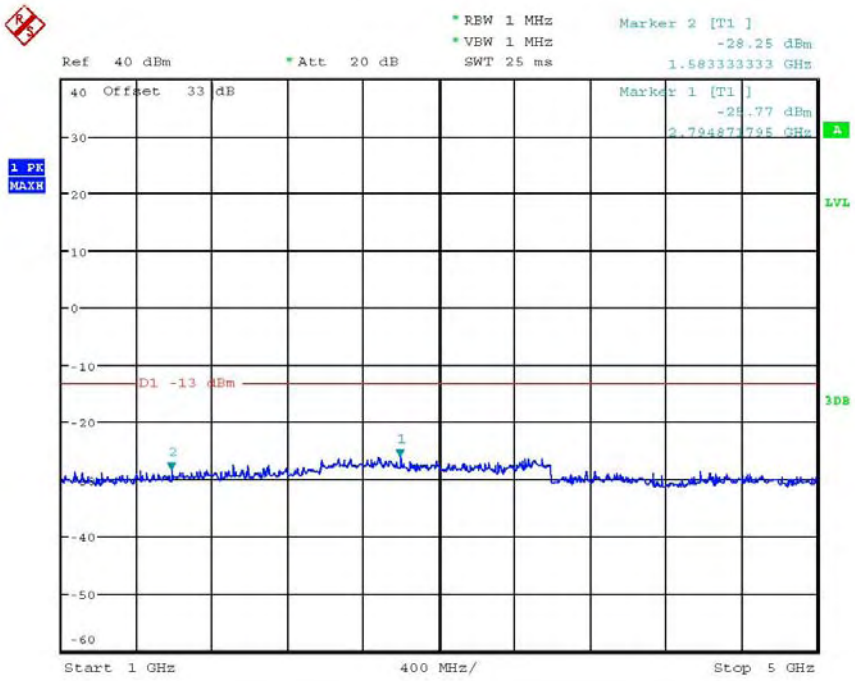

Conducted Spurious Emission 418MHz 12.5k
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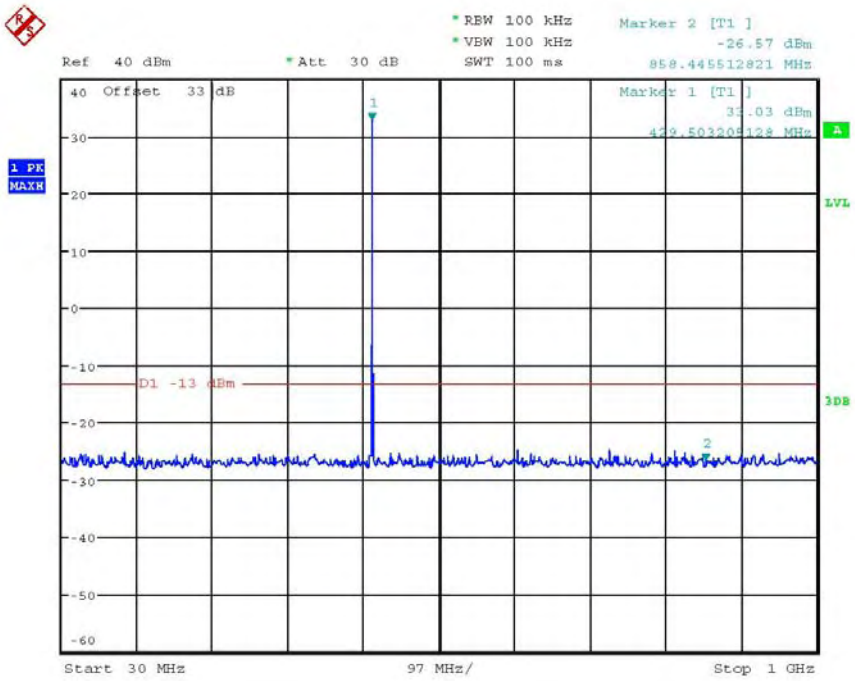

Conducted Spurious Emission 429.975MHz 12.5k
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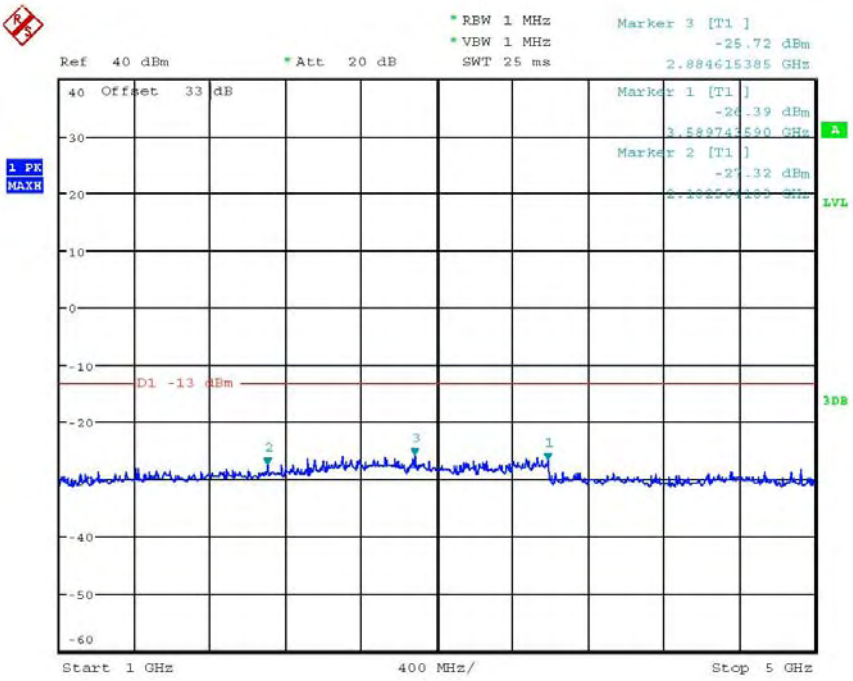

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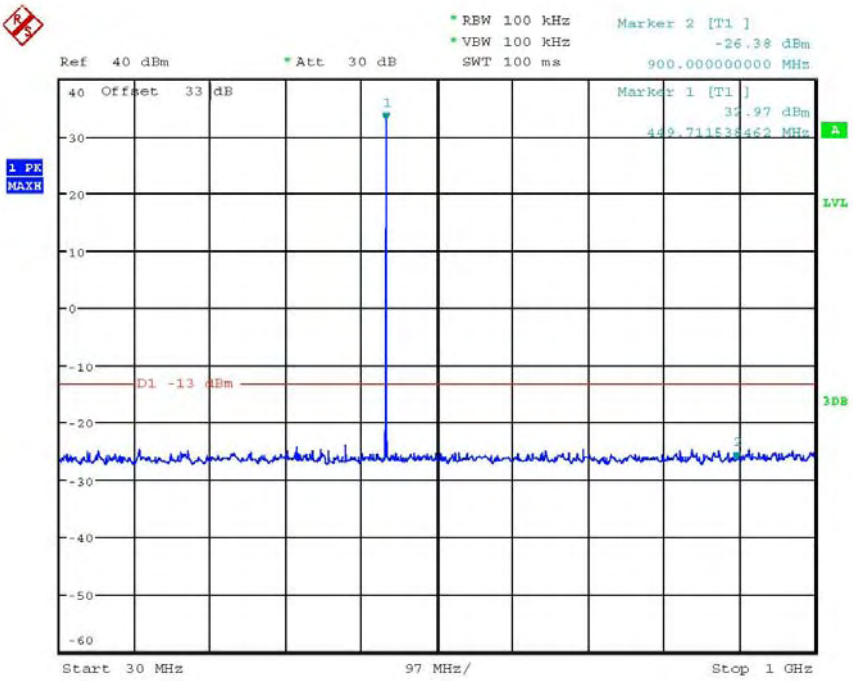
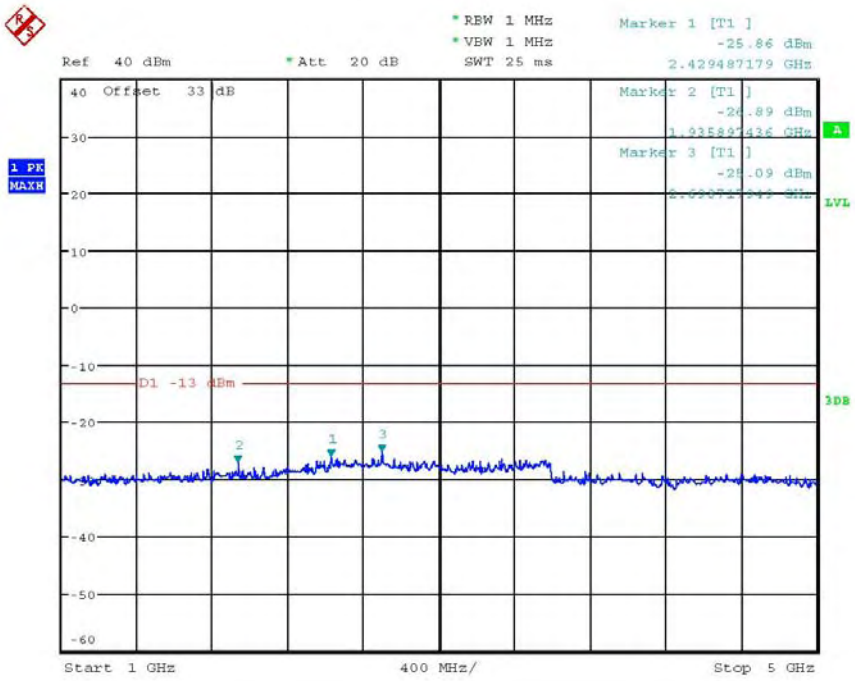
Date: 26.OCT.2012 06:51:31



Conducted Spurious Emission 450.025MHz 12.5k
Date: 26.OCT.2012 06:28:10

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B



Conducted Spurious Emission 450.025MHz 12.5k
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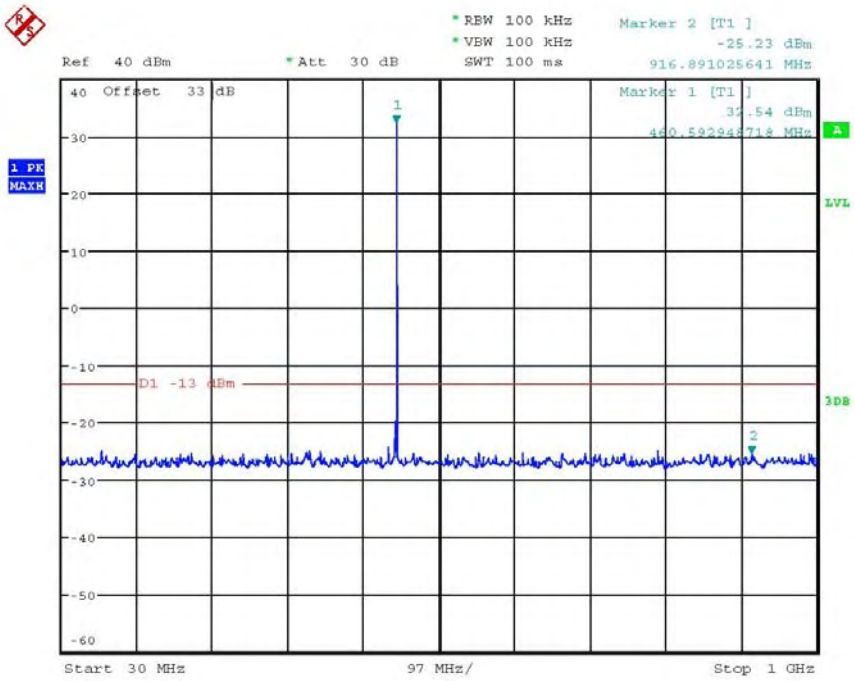
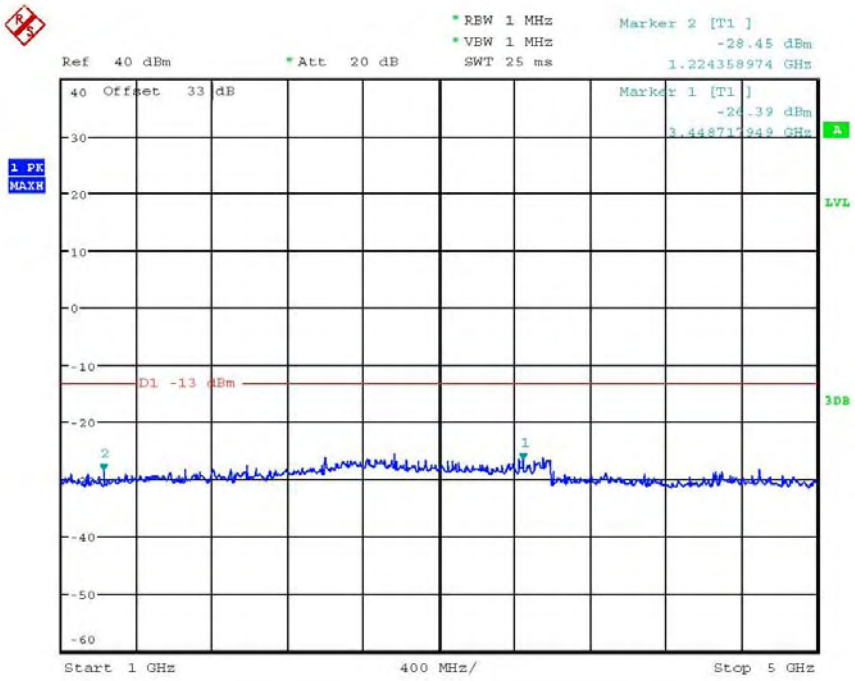
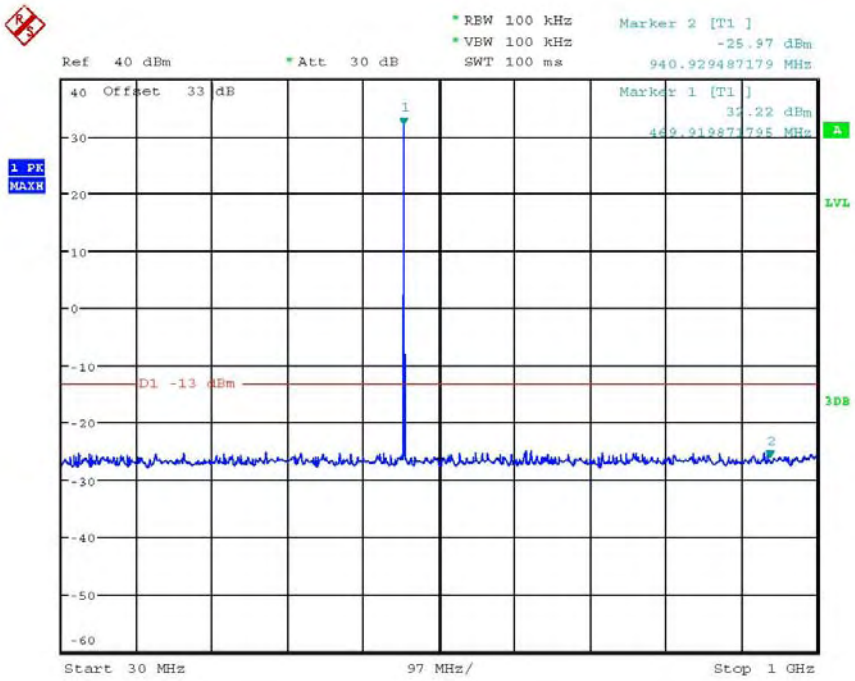


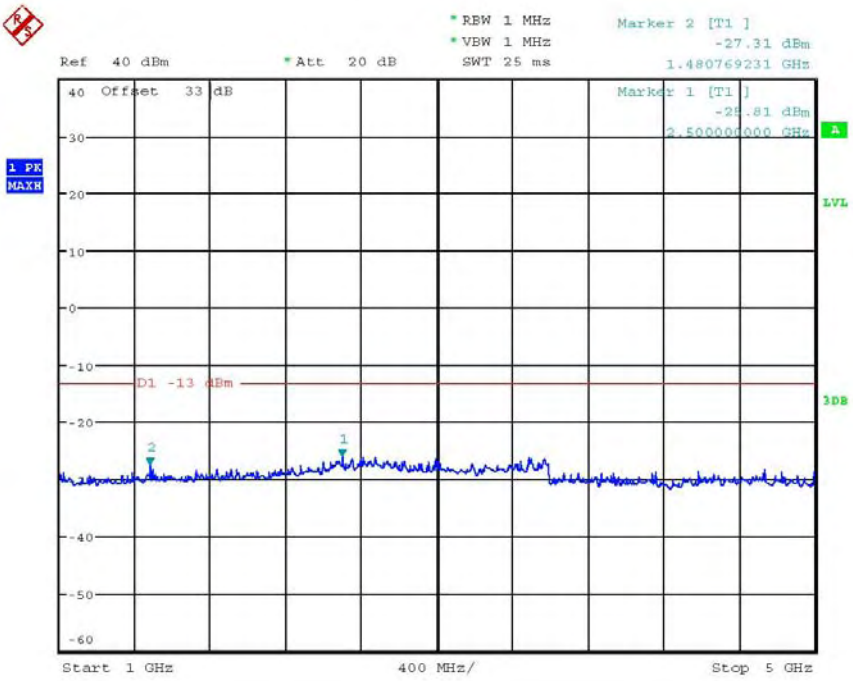
Conducted Spurious Emission 460MHz 12.5k
Date: 26.OCT.2012 06:28:46



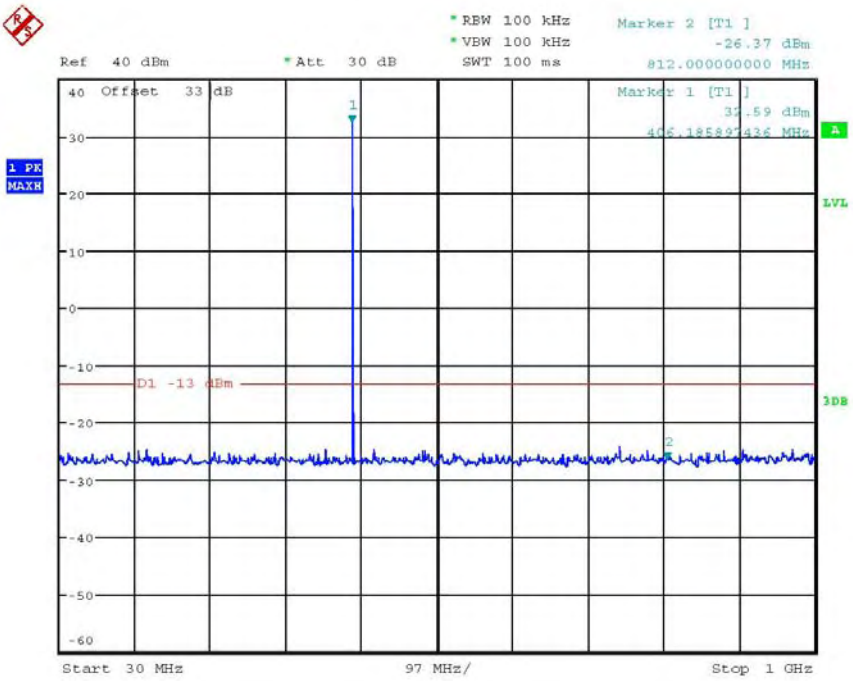
Conducted Spurious Emission 460MHz 12.5k
Date: 26.OCT.2012 06:31:07



Conducted Spurious Emission 469.975MHz 12.5k
Date: 26.OCT.2012 06:29:39

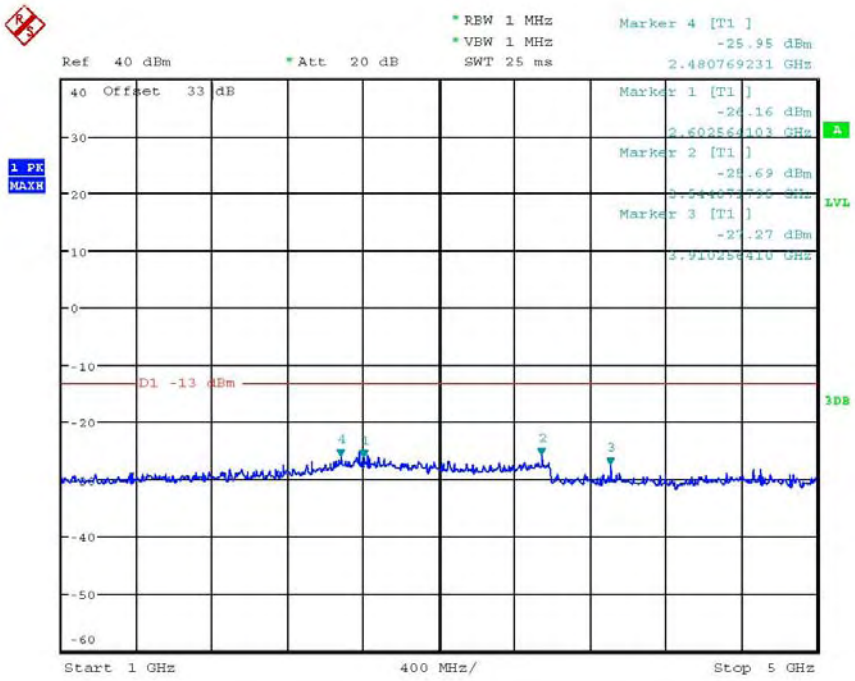


Conducted Spurious Emission 469.975MHz 12.5k
Date: 26.OCT.2012 06:30:19



Conducted Spurious Emission 406.125MHz 25k
Date: 26.OCT.2012 06:40:40

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B



Conducted Spurious Emission 406.125MHz 25k
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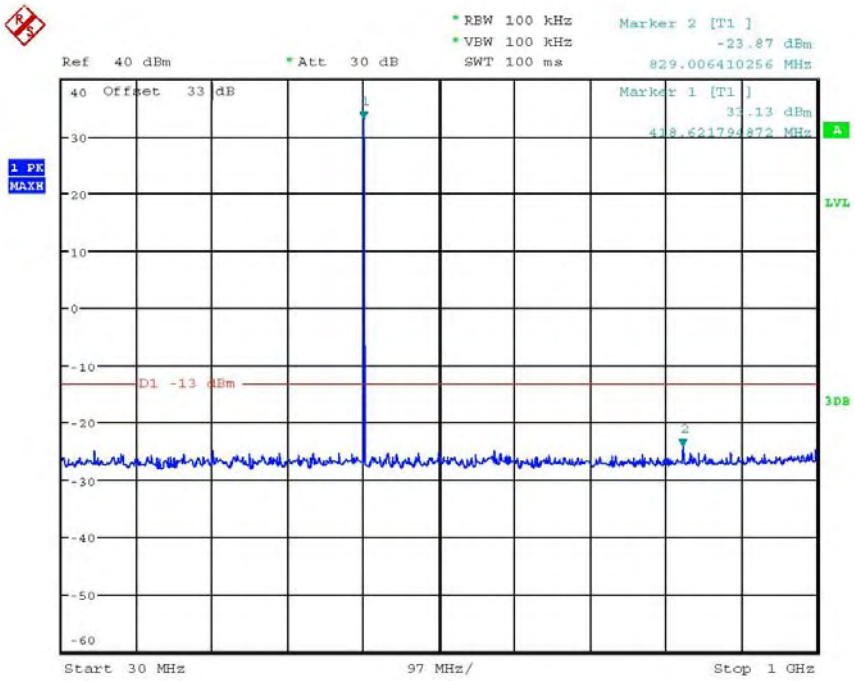

Conducted Spurious Emission 418MHz 25k
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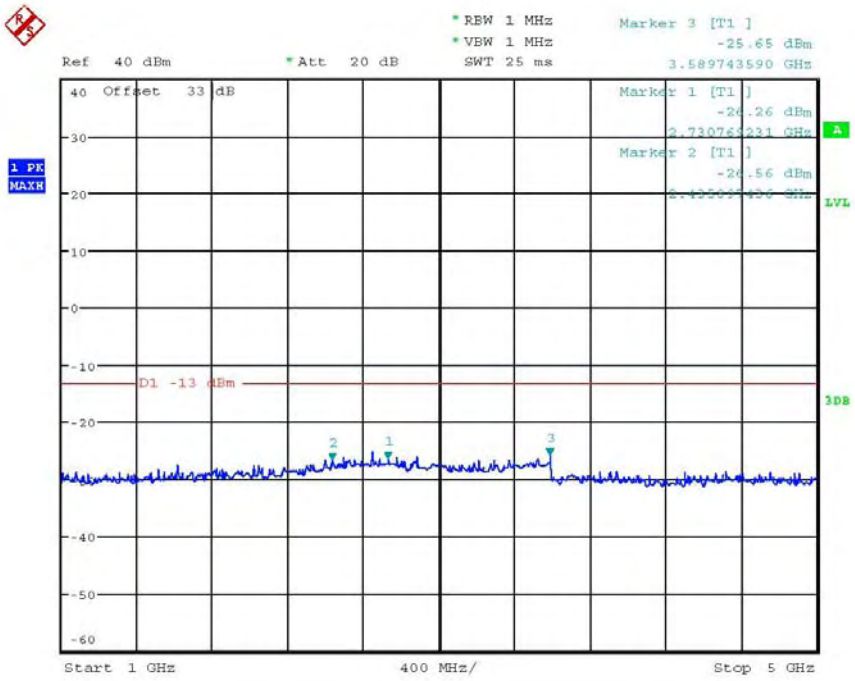

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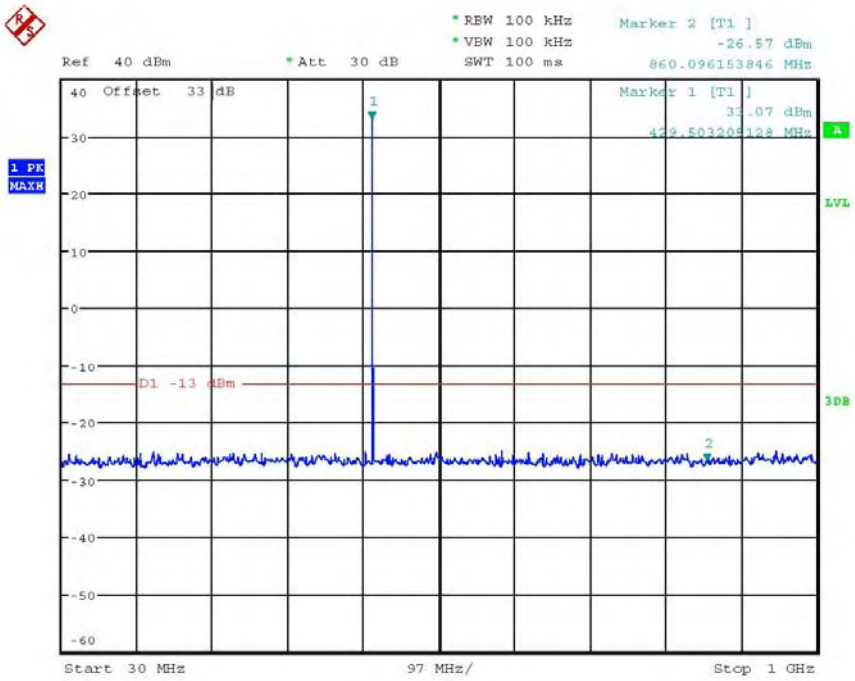

Conducted Spurious Emission 429.975MHz 25k
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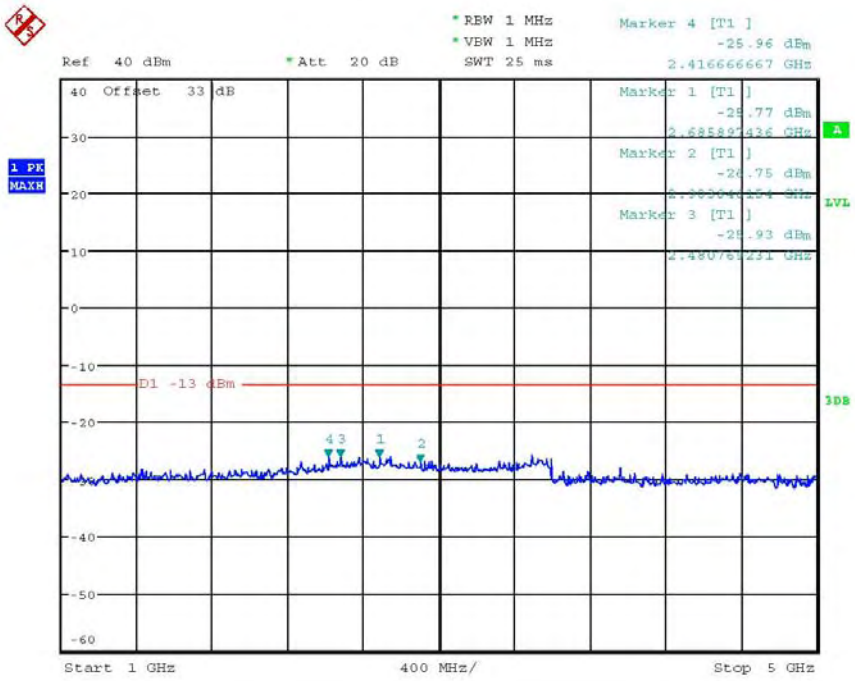

Conducted Spurious Emission 429.975MHz 25k
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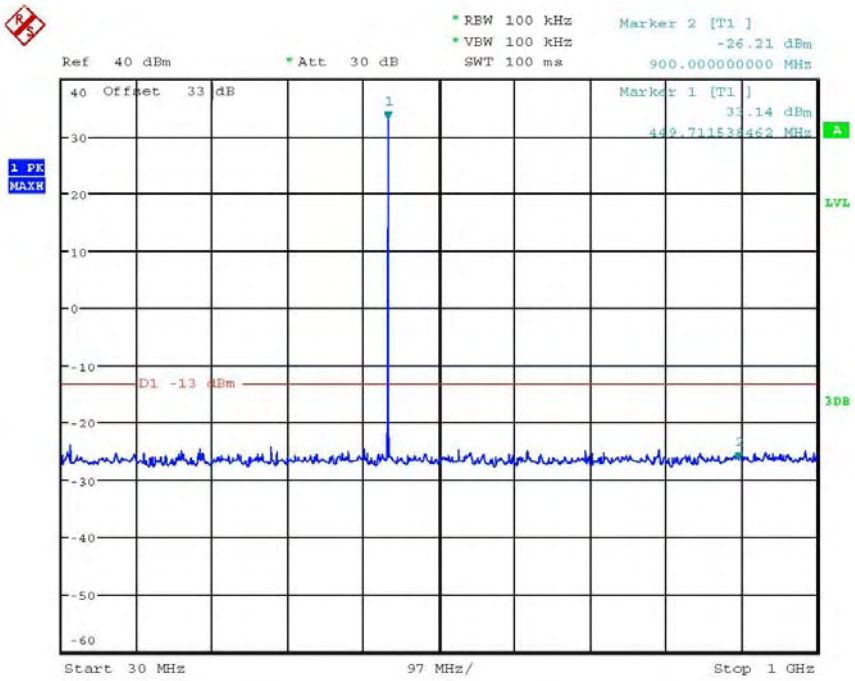
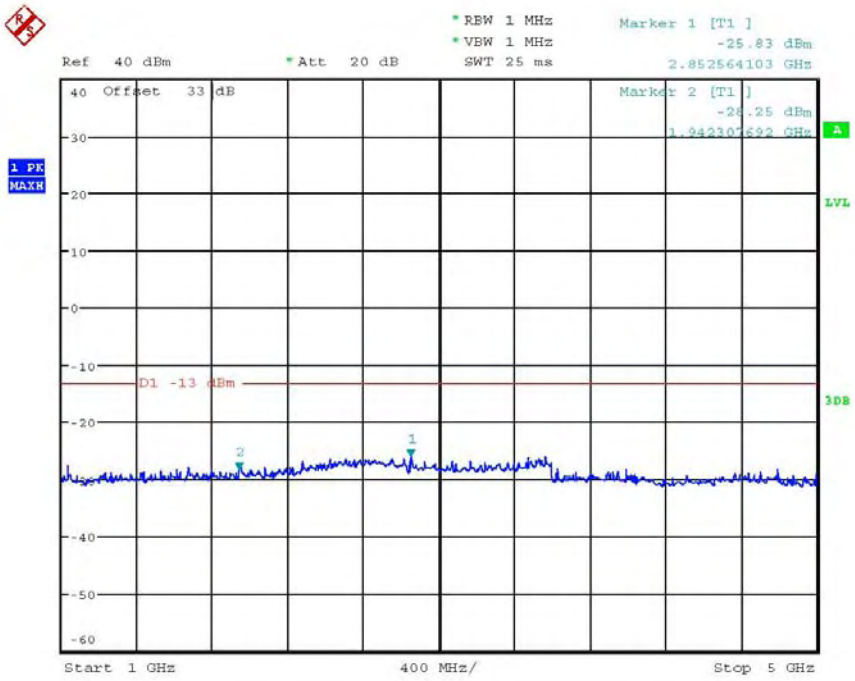
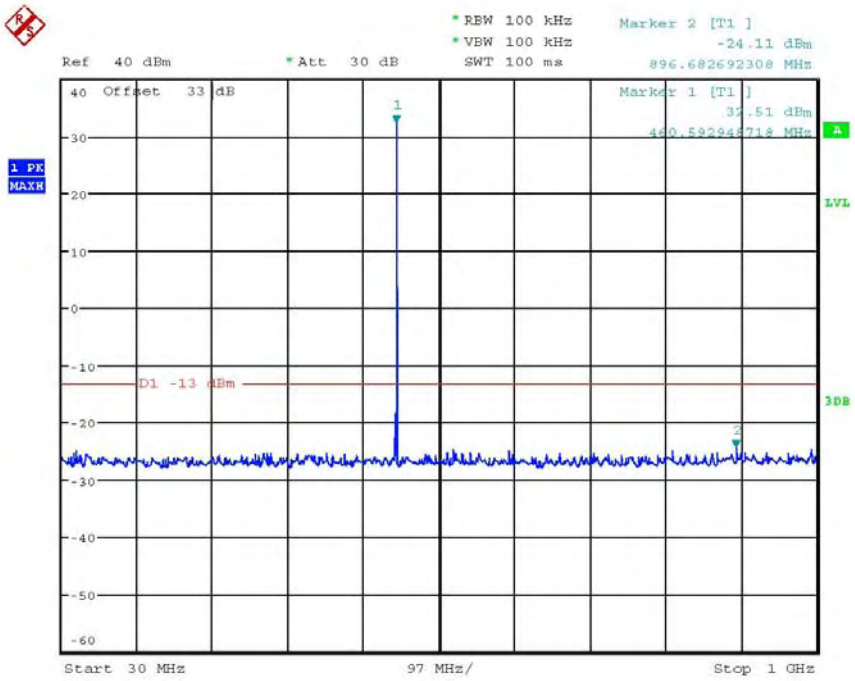


Conducted Spurious Emission 450.075MHz 25k
Date: 26.OCT.2012 06:22:20



Conducted Spurious Emission 450.075MHz 25k
Date: 26.OCT.2012 06:23:20



Conducted Spurious Emission 460MHz 25k
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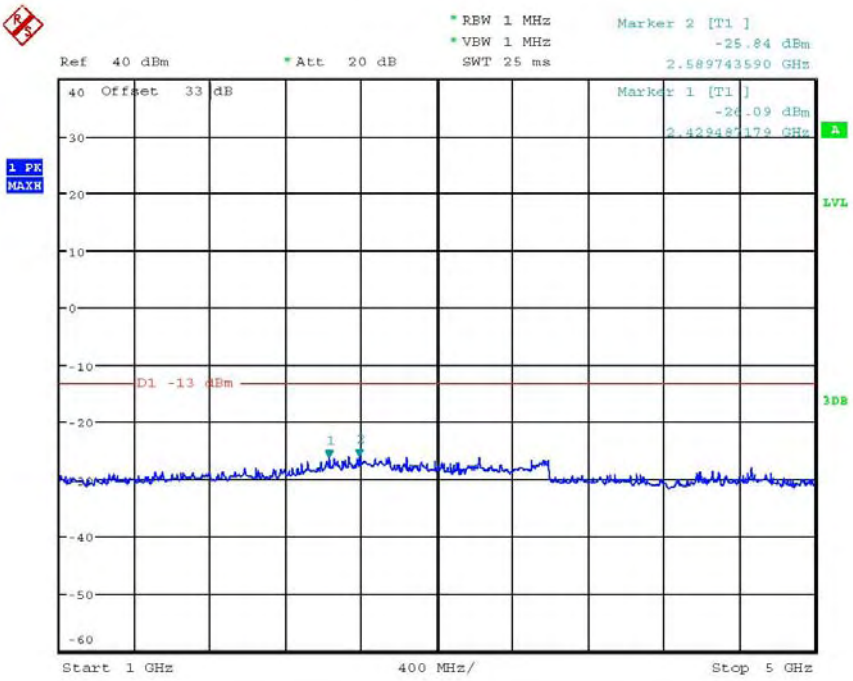
Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B



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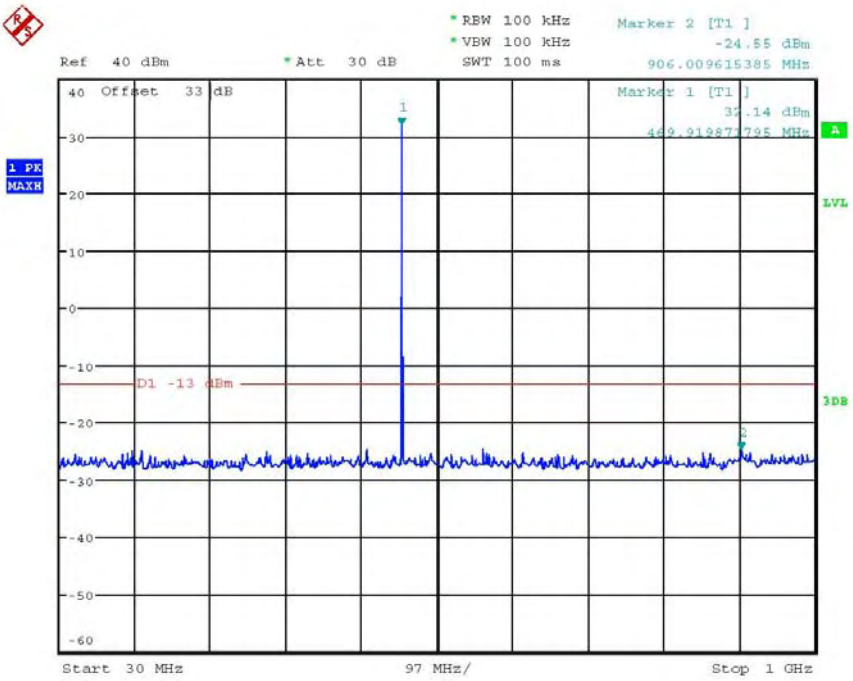
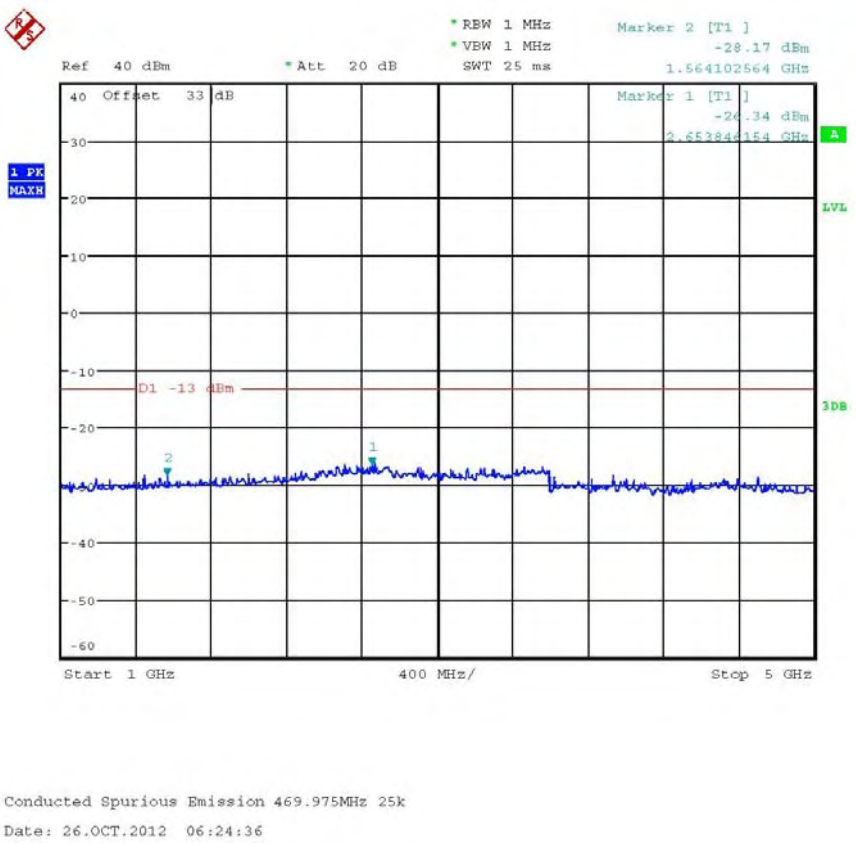


Conducted Spurious Emission 469.975MHz 25k
Date: 26.OCT.2012 06:26:19

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B



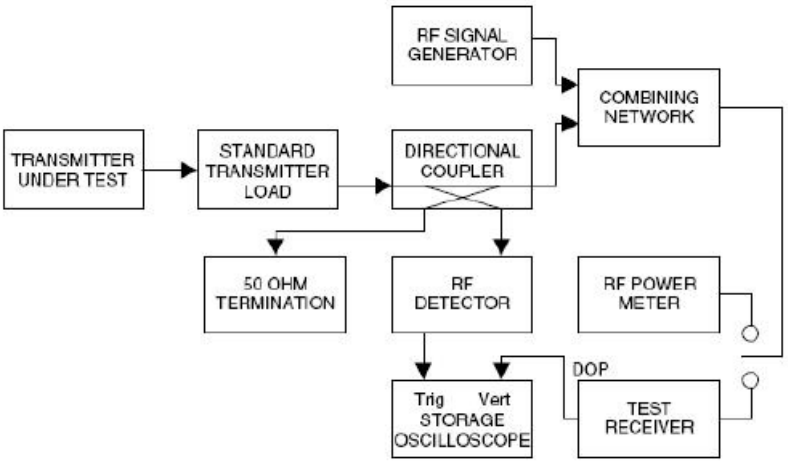
Test equipment used: ETSTW-RE 055, ETSTW-RE 072

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 storageoscilloscope 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 ton . The trace should be maintained within the allowed divisions during the period t1 and t2 . See the figure in the appropriate standards section.
4. During the time from the end of t2 to the beginning of t3 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 toff.

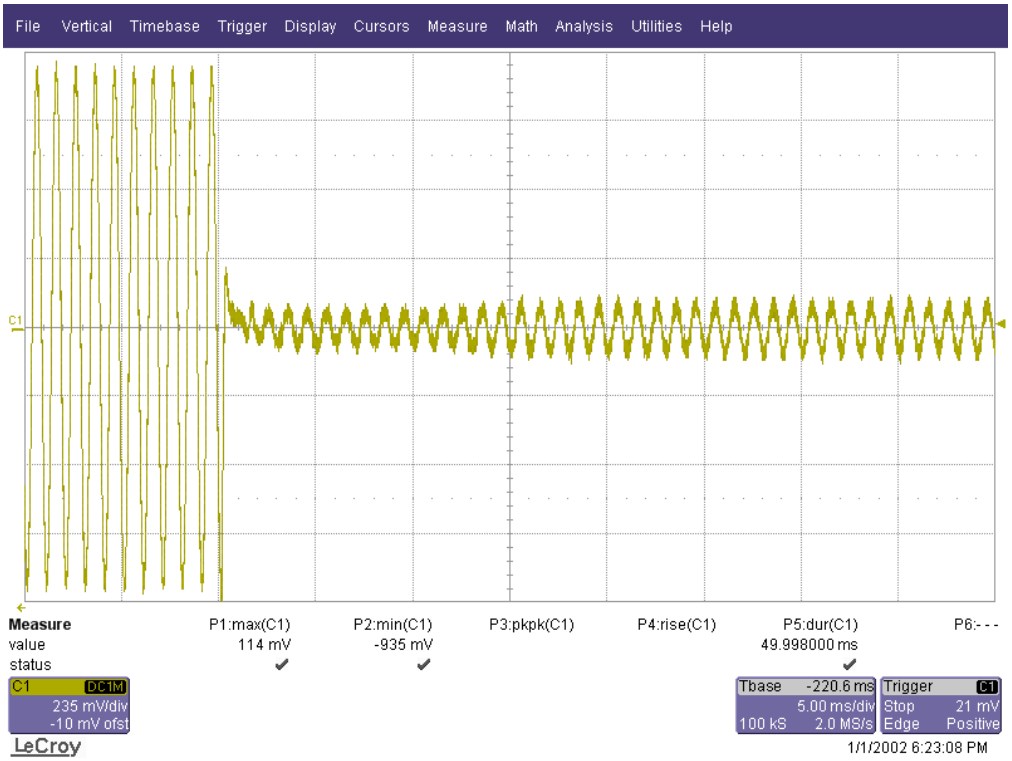
10.2 Test Setup



10.3 Test Result

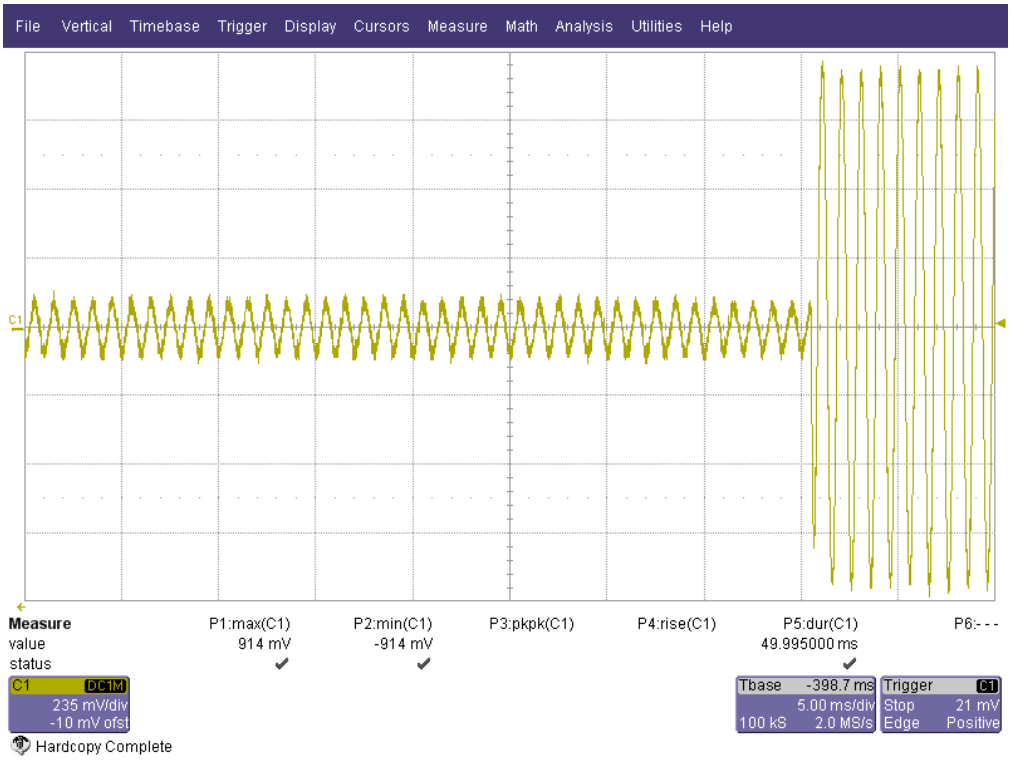
Mode 1 (t1,t2) 12.5 kHz

418 MHz Off to On



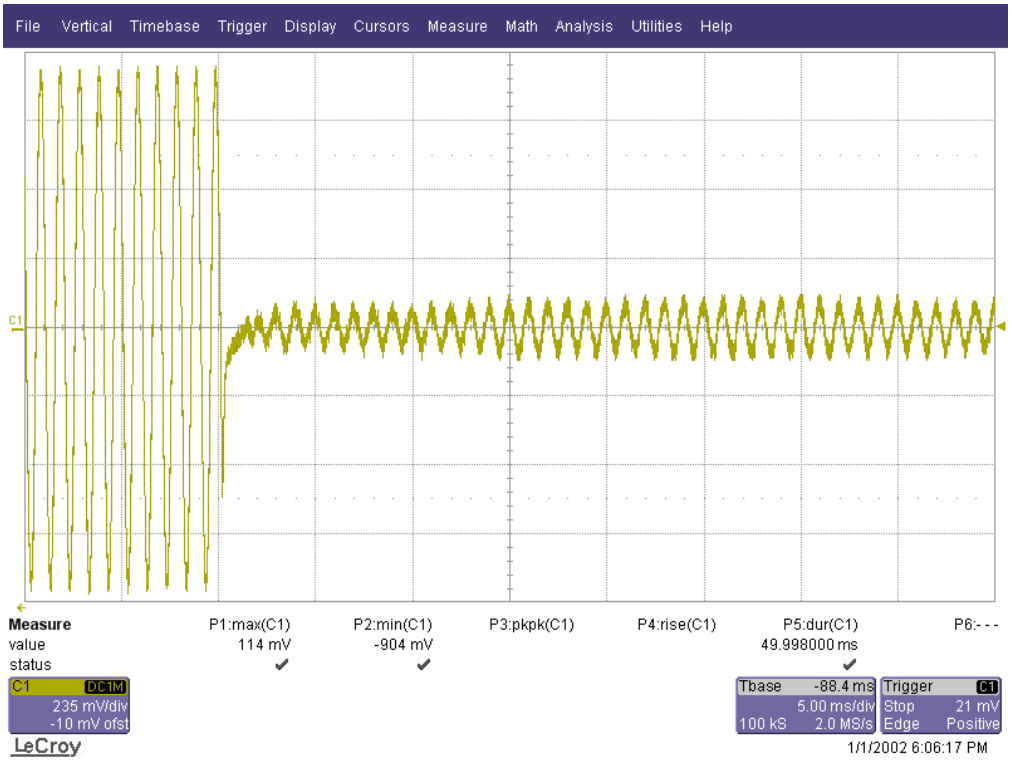
Mode 1 (t3) 12.5 kHz

418 MHz On to Off

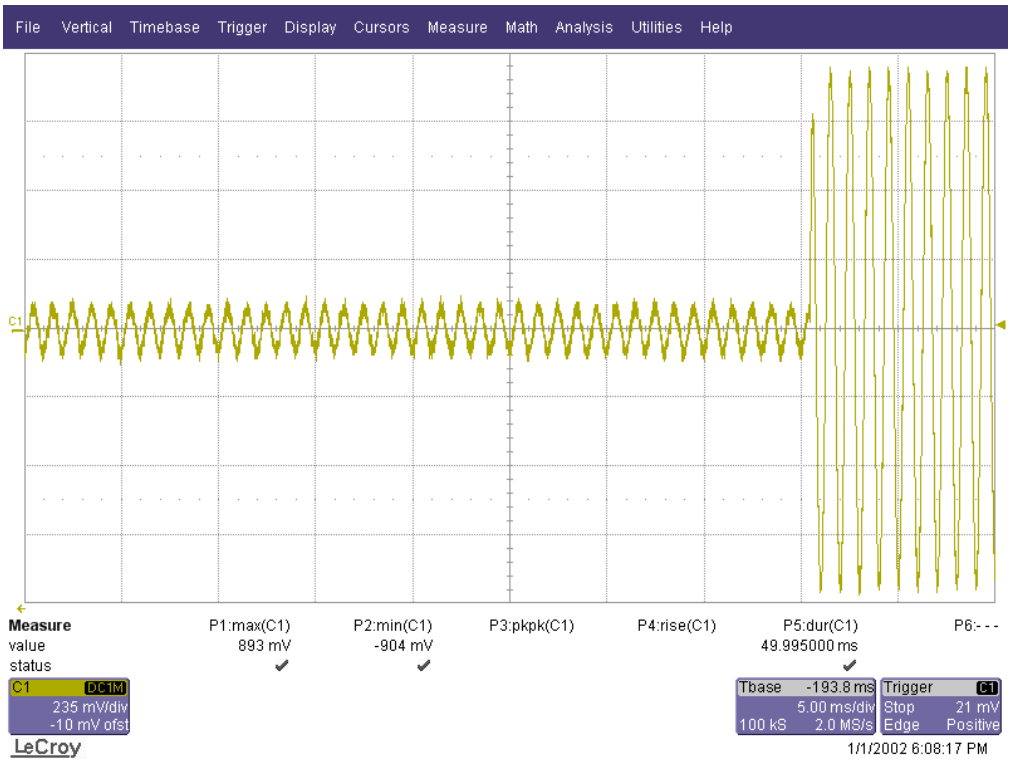


Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

Mode 2 (t1,t2) 12.5 kHz
460 MHz Off to On

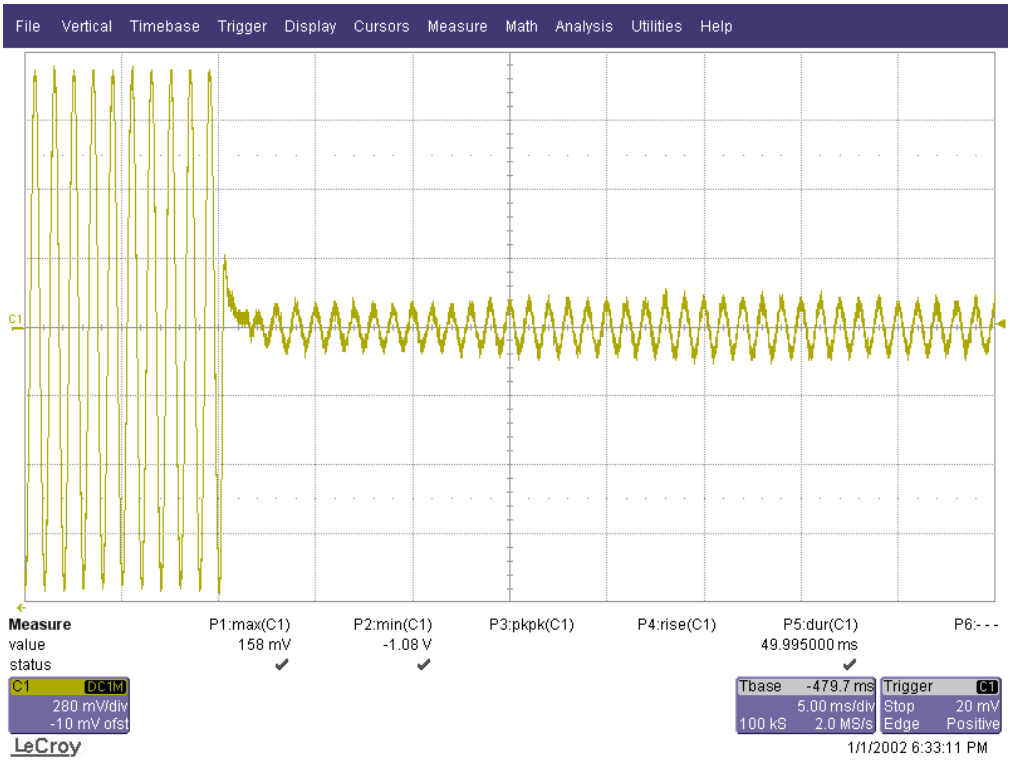


Mode 2 (t3) 12.5 kHz
460 MHz On to Off

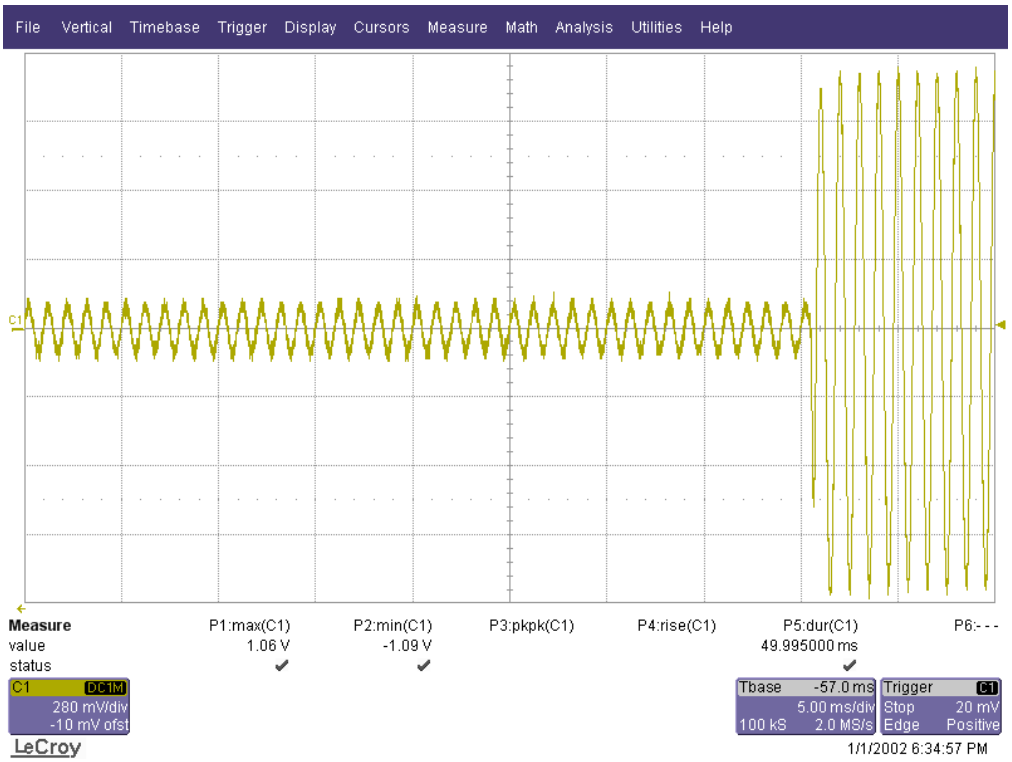


Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

Mode 3(t1,t2) 25 kHz
418 MHz_ Off to On

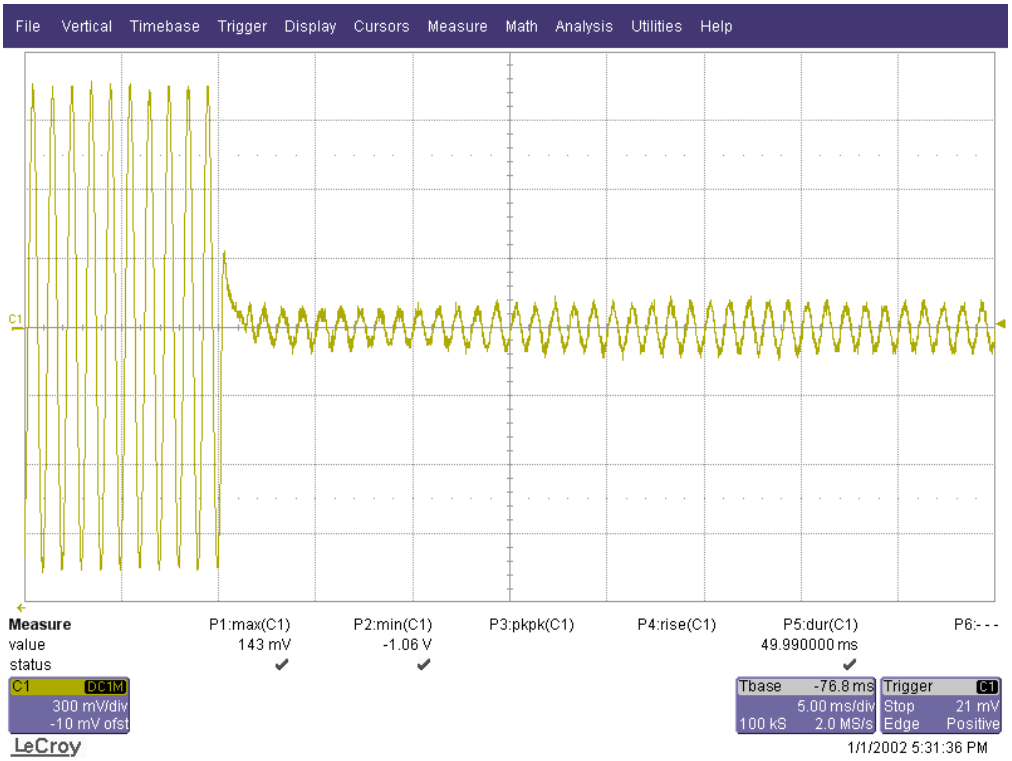


Mode 3(t3)
418 MHz On to Off f

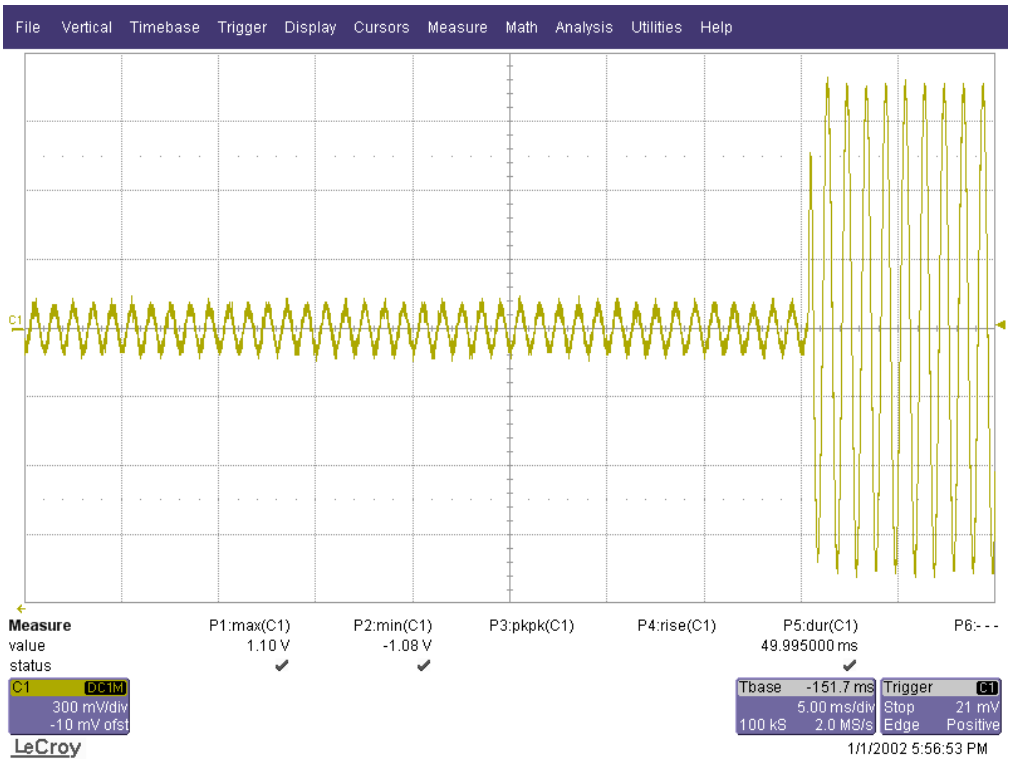


Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

Mode 4(t1,t2)
460 MHz Off to On



Mode 3(t3)
460 MHz On to Off



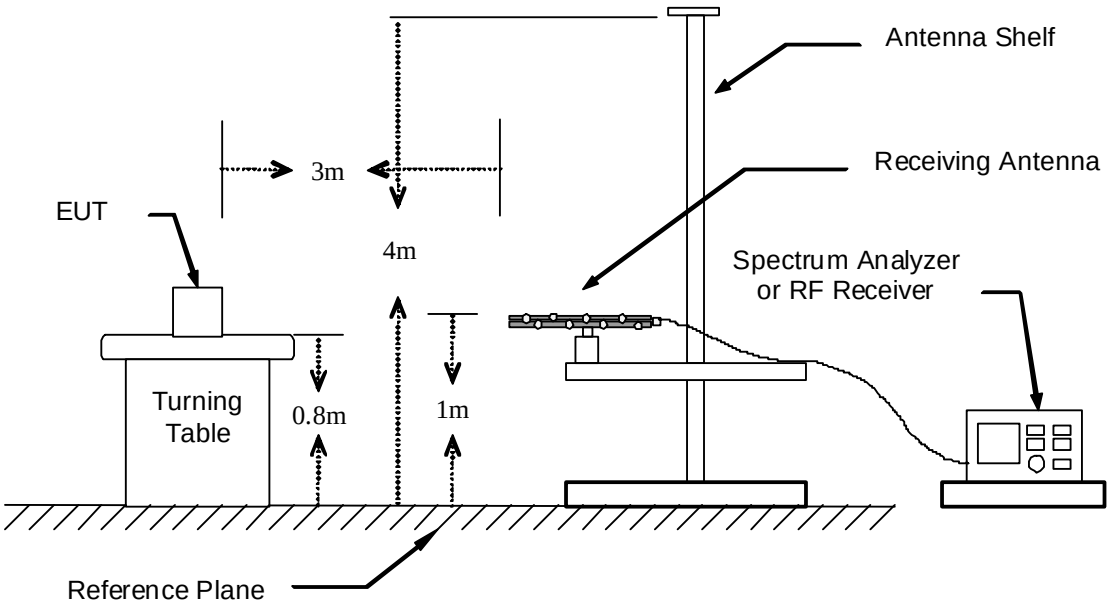
Test equipment used: ETSTW-RE 072, ETSTW-RE 096, ETSTW-RE 033

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



11.3 Test Result

12.5 kHz

Model: 52-7880LC2B Date:2012/10/31
Mode: RX 406.125MHz 12.5k Temperature: 24 °C Engineer: Leon
Polarization: Horizontal Humidity: 60 %

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
129.1383	15.30	peak	13.72	29.02	43.50	-14.48	110	100
271.0421	8.84	peak	14.76	23.60	46.00	-22.40	265	100
562.6253	4.26	peak	21.53	25.79	46.00	-20.21	310	100
805.6112	3.03	peak	25.44	28.47	46.00	-17.53	70	100

Frequency (MHz)	Reading (dBuV) Peak	Reading (dBuV) Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Result @3m (dBuV/m) Ave.	Limit @3m (dBuV/m) Peak	Limit @3m (dBuV/m) Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
3244.4890	50.76	---	-3.68	47.08	---	74.00	54.00	-26.92	120	100
7270.5410	42.02	---	4.25	46.27	---	74.00	54.00	-27.73	310	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
82.4850	14.35	peak	9.17	23.52	40.00	-16.48	255	100
113.5872	20.02	peak	12.88	32.90	43.50	-10.60	240	100
129.1383	20.60	peak	13.72	34.32	43.50	-9.18	175	100
185.5110	8.09	peak	13.17	21.26	43.50	-22.24	130	100

Frequency (MHz)	Reading (dBuV) Peak	Reading (dBuV) Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Result @3m (dBuV/m) Ave.	Limit @3m (dBuV/m) Peak	Limit @3m (dBuV/m) Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
3244.4890	47.97	---	-3.68	44.29	---	74.00	54.00	-29.71	255	100
4591.1820	43.74	---	-1.46	42.28	---	74.00	54.00	-31.72	110	100

Mode: RX 418MHz 12.5k
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
156.3527	2.09	peak	15.05	17.14	43.50	-26.36	95	100
280.7615	5.06	peak	15.29	20.35	46.00	-25.65	135	100
453.7675	3.31	peak	19.65	22.96	46.00	-23.04	110	100
702.5852	4.23	peak	23.82	28.05	46.00	-17.95	240	100

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

Frequency (MHz)	Reading (dBuV) Peak	Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave.	Limit @3m (dBuV/m) Peak	Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
3342.6850	54.76	---	-3.70	51.06	---	74.00	54.00	-22.94	240	100
4450.9020	43.91	---	-1.67	42.24	---	74.00	54.00	-31.76	130	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
140.8016	1.93	peak	14.83	16.76	43.50	-26.74	220	100
426.5531	3.78	peak	19.00	22.78	46.00	-23.22	135	100
535.4108	3.94	peak	21.12	25.06	46.00	-20.94	310	100
673.4270	3.86	peak	23.41	27.27	46.00	-18.73	330	100

Frequency (MHz)	Reading (dBuV) Peak	Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave.	Limit @3m (dBuV/m) Peak	Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
3342.6850	53.51	---	-3.70	49.81	---	74.00	54.00	-24.19	235	100
5895.7920	42.39	---	0.71	43.10	---	74.00	54.00	-30.90	110	100

Mode: RX 429.975MHz 12.5k
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
152.4650	1.67	peak	15.07	16.74	43.50	-26.76	145	100
263.2665	5.32	peak	14.36	19.68	46.00	-26.32	230	100
545.1303	4.14	peak	21.32	25.46	46.00	-20.54	110	100
650.1002	4.59	peak	23.09	27.68	46.00	-18.32	90	100

Frequency (MHz)	Reading (dBuV) Peak	Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave.	Limit @3m (dBuV/m) Peak	Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
3440.8820	54.00	---	-3.75	50.25	---	74.00	54.00	-23.75	265	100
5881.7640	42.10	---	0.66	42.76	---	74.00	54.00	-31.24	140	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
166.0721	1.74	peak	14.79	16.53	43.50	-26.97	275	100
416.8337	4.13	peak	18.75	22.88	46.00	-23.12	130	100
601.5030	2.56	peak	22.62	25.18	46.00	-20.82	150	100
700.6413	3.99	peak	23.78	27.77	46.00	-18.23	320	100

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

Frequency (MHz)	Reading (dBuV) Peak	Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave.	Limit @3m (dBuV/m) Peak	Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
3440.8820	52.23	---	-3.75	48.48	---	74.00	54.00	-25.52	310	100
6134.2690	42.42	---	1.22	43.64	---	74.00	54.00	-30.36	260	100

Mode: RX 450.025MHz 12.5k
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
127.1944	10.23	peak	13.62	23.85	43.50	-19.65	145	100
278.8176	5.87	peak	15.22	21.09	46.00	-24.91	130	100
453.7675	3.86	peak	19.65	23.51	46.00	-22.49	250	100
665.6513	3.89	peak	23.30	27.19	46.00	-18.81	220	100

Frequency (MHz)	Reading (dBuV) Peak	Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave.	Limit @3m (dBuV/m) Peak	Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
3595.1900	54.04	---	-3.05	50.99	---	74.00	54.00	-23.01	120	100
7523.0460	41.43	---	4.34	45.77	---	74.00	54.00	-28.23	155	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
282.7054	3.18	peak	15.31	18.49	46.00	-27.51	260	100
459.5992	3.70	peak	19.74	23.44	46.00	-22.56	110	100
593.7275	3.26	peak	22.35	25.61	46.00	-20.39	90	100
790.0601	2.86	peak	25.24	28.10	46.00	-17.90	340	100

Frequency (MHz)	Reading (dBuV) Peak	Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave.	Limit @3m (dBuV/m) Peak	Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
3595.1900	54.45	---	-3.05	51.40	---	74.00	54.00	-22.60	75	100
6555.1100	42.05	---	2.11	44.16	---	74.00	54.00	-29.84	160	100

Mode: RX 460MHz 12.5k
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
82.4850	14.79	peak	9.17	23.96	40.00	-16.04	260	100
111.6433	23.52	peak	12.77	36.29	43.50	-7.21	230	100
136.9138	24.58	peak	14.49	39.07	43.50	-4.43	125	100
286.5932	7.71	peak	15.33	23.04	46.00	-22.96	145	100

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

Frequency (MHz)	Reading (dBuV) Peak	Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave.	Limit @3m (dBuV/m) Peak	Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
3679.3590	51.40	---	-2.84	48.56	---	74.00	54.00	-25.44	120	100
7565.1300	41.53	---	4.29	45.82	---	74.00	54.00	-28.18	165	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
278.8176	4.90	peak	15.22	20.12	46.00	-25.88	175	100
455.7114	3.98	peak	19.68	23.66	46.00	-22.34	120	100
696.7535	3.00	peak	23.72	26.72	46.00	-19.28	110	100
838.6573	2.81	peak	25.80	28.61	46.00	-17.39	260	100

Frequency (MHz)	Reading (dBuV) Peak	Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave.	Limit @3m (dBuV/m) Peak	Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
3679.3590	57.07	54.26	-2.84	54.23	51.42	74.00	54.00	-2.58	160	100
7438.8780	41.08	---	4.56	45.64	---	74.00	54.00	-28.36	140	100

Mode: RX 469.975MHz 12.5k
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
131.0822	9.40	peak	13.88	23.28	43.50	-20.22	350	100
160.2405	4.84	peak	15.03	19.87	43.50	-23.63	150	100
428.4970	4.19	peak	19.04	23.23	46.00	-22.77	130	100
692.8657	3.37	peak	23.67	27.04	46.00	-18.96	240	100

Frequency (MHz)	Reading (dBuV) Peak	Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave.	Limit @3m (dBuV/m) Peak	Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
3763.5270	52.39	---	-2.83	49.56	---	74.00	54.00	-24.44	220	100
5881.7640	42.43	---	0.66	43.09	---	74.00	54.00	-30.91	315	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
138.8577	1.89	peak	14.69	16.58	43.50	-26.92	275	100
368.2365	3.57	peak	17.41	20.98	46.00	-25.02	130	100
550.9620	3.58	peak	21.39	24.97	46.00	-21.03	230	100
665.6513	3.59	peak	23.30	26.89	46.00	-19.11	310	100

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

Frequency (MHz)	Reading (dBuV) Peak	Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave.	Limit @3m (dBuV/m) Peak	Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
3763.5270	55.22	53.10	-2.83	52.39	50.27	74.00	54.00	-3.73	120	100
7452.9060	41.07	---	4.52	45.59	---	74.00	54.00	-28.41	140	100

25 kHz
Mode: RX 406.125MHz 25k
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
142.7455	1.87	peak	14.88	16.75	43.50	-26.75	130	100
442.1042	4.33	peak	19.36	23.69	46.00	-22.31	280	100
550.9620	3.90	peak	21.39	25.29	46.00	-20.71	110	100
687.0341	3.44	peak	23.59	27.03	46.00	-18.97	235	100

Frequency (MHz)	Reading (dBuV) Peak	Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave.	Limit @3m (dBuV/m) Peak	Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
3244.4890	49.61	---	-3.68	45.93	---	74.00	54.00	-28.07	135	100
4464.9300	43.99	---	-1.60	42.39	---	74.00	54.00	-31.61	240	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
47.4950	1.79	peak	14.07	15.86	40.00	-24.14	275	100
311.8637	4.50	peak	15.87	20.37	46.00	-25.63	130	100
463.4870	3.59	peak	19.78	23.37	46.00	-22.63	140	100
667.5952	4.66	peak	23.33	27.99	46.00	-18.01	220	100

Frequency (MHz)	Reading (dBuV) Peak	Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave.	Limit @3m (dBuV/m) Peak	Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
3244.4890	45.47	---	-3.68	41.79	---	74.00	54.00	-32.21	160	100
4464.9300	44.19	---	-1.60	42.59	---	74.00	54.00	-31.41	260	100

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

Mode: RX 418MHz 25k
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
136.9138	15.38	peak	14.49	29.87	43.50	-13.63	205	100
261.3226	11.92	peak	14.27	26.19	46.00	-19.81	160	100
329.3587	7.33	peak	16.36	23.69	46.00	-22.31	230	100
685.0902	3.92	peak	23.57	27.49	46.00	-18.51	120	100

Frequency (MHz)	Reading (dBuV) Peak	Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave.	Limit @3m (dBuV/m) Peak	Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
3342.6850	51.37	---	-3.70	47.67	---	74.00	54.00	-26.33	145	100
4464.9300	44.10	---	-1.60	42.50	---	74.00	54.00	-31.50	200	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
82.4850	14.51	peak	9.17	23.68	40.00	-16.32	130	100
129.1383	20.81	peak	13.72	34.53	43.50	-8.97	245	100
156.3527	9.91	peak	15.05	24.96	43.50	-18.54	85	100
568.4570	4.75	peak	21.62	26.37	46.00	-19.63	160	100

Frequency (MHz)	Reading (dBuV) Peak	Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave.	Limit @3m (dBuV/m) Peak	Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
3342.6850	46.03	---	-3.70	42.33	---	74.00	54.00	-31.67	130	100
4801.6030	43.72	---	-1.38	42.34	---	74.00	54.00	-31.66	100	100

Mode: RX 429.975MHz 25k
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
127.1944	9.24	peak	13.62	22.86	43.50	-20.64	160	100
278.8176	4.91	peak	15.22	20.13	46.00	-25.87	270	100
564.5691	3.36	peak	21.56	24.92	46.00	-21.08	95	100
706.4730	3.76	peak	23.89	27.65	46.00	-18.35	110	100

Frequency (MHz)	Reading (dBuV) Peak	Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave.	Limit @3m (dBuV/m) Peak	Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
3440.8820	50.64	---	-3.75	46.89	---	74.00	54.00	-27.11	205	100
4689.3790	43.91	---	-1.64	42.27	---	74.00	54.00	-31.73	320	100

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
146.6333	2.02	peak	14.99	17.01	43.50	-26.49	135	100
300.2004	4.53	peak	15.53	20.06	46.00	-25.94	260	100
541.2425	4.08	peak	21.28	25.36	46.00	-20.64	110	100
768.6774	2.66	peak	24.94	27.60	46.00	-18.40	75	100

Frequency (MHz)	Reading (dBuV) Peak	Reading (dBuV) Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Result @3m (dBuV/m) Ave.	Limit @3m (dBuV/m) Peak	Limit @3m (dBuV/m) Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
3440.8820	48.31	---	-3.75	44.56	---	74.00	54.00	-29.44	145	100
4675.3510	43.52	---	-1.61	41.91	---	74.00	54.00	-32.09	100	100

Mode: RX 450.025MHz 25k
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
127.1944	12.07	peak	13.62	25.69	43.50	-17.81	145	100
269.0982	5.35	peak	14.65	20.00	46.00	-26.00	200	100
607.3347	3.10	peak	22.68	25.78	46.00	-20.22	230	100
788.1162	2.66	peak	25.21	27.87	46.00	-18.13	110	100

Frequency (MHz)	Reading (dBuV) Peak	Reading (dBuV) Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Result @3m (dBuV/m) Ave.	Limit @3m (dBuV/m) Peak	Limit @3m (dBuV/m) Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
3595.1900	51.09	---	-3.05	48.04	---	74.00	54.00	-25.96	135	100
4464.9300	43.70	---	-1.60	42.10	---	74.00	54.00	-31.90	260	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
146.6333	2.03	peak	14.99	17.02	43.50	-26.48	230	100
411.0020	4.27	peak	18.56	22.83	46.00	-23.17	110	100
541.2425	3.61	peak	21.28	24.89	46.00	-21.11	155	100
683.1463	4.24	peak	23.54	27.78	46.00	-18.22	340	100

Frequency (MHz)	Reading (dBuV) Peak	Reading (dBuV) Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Result @3m (dBuV/m) Ave.	Limit @3m (dBuV/m) Peak	Limit @3m (dBuV/m) Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
3595.1900	54.93	---	-3.05	51.88	---	74.00	54.00	-22.12	175	100
7326.6530	42.93	---	4.40	47.33	---	74.00	54.00	-26.67	130	100

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

Mode: RX 460MHz 25k
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
109.6994	9.22	peak	12.63	21.85	43.50	-21.65	110	100
127.1944	9.98	peak	13.62	23.60	43.50	-19.90	315	100
154.4088	5.52	peak	15.06	20.58	43.50	-22.92	240	100
671.4830	3.69	peak	23.38	27.07	46.00	-18.93	160	100

Frequency (MHz)	Reading (dBuV) Peak	Reading (dBuV) Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Result @3m (dBuV/m) Ave.	Limit @3m (dBuV/m) Peak	Limit @3m (dBuV/m) Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
3679.3590	54.75	---	-2.84	51.91	---	74.00	54.00	-22.09	175	100
6330.6610	41.80	---	1.38	43.18	---	74.00	54.00	-30.82	120	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
327.4148	5.30	peak	16.31	21.61	46.00	-24.39	175	100
449.8798	4.17	peak	19.59	23.76	46.00	-22.24	240	100
547.0741	4.46	peak	21.34	25.80	46.00	-20.20	260	100
698.6974	3.88	peak	23.75	27.63	46.00	-18.37	310	100

Frequency (MHz)	Reading (dBuV) Peak	Reading (dBuV) Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Result @3m (dBuV/m) Ave.	Limit @3m (dBuV/m) Peak	Limit @3m (dBuV/m) Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
3679.3590	55.10	52.89	-2.84	52.26	50.05	74.00	54.00	-3.95	145	100
6456.9140	42.08	---	1.65	43.73	---	74.00	54.00	-30.27	330	100

Mode: RX 469.975MHz 25k
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
127.1944	9.40	peak	13.62	23.02	43.50	-20.48	75	100
278.8176	5.09	peak	15.22	20.31	46.00	-25.69	160	100
539.2986	4.27	peak	21.24	25.51	46.00	-20.49	240	100
755.0701	2.63	peak	24.75	27.38	46.00	-18.62	265	100

Frequency (MHz)	Reading (dBuV) Peak	Reading (dBuV) Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Result @3m (dBuV/m) Ave.	Limit @3m (dBuV/m) Peak	Limit @3m (dBuV/m) Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
3763.5270	53.83	---	-2.83	51.00	---	74.00	54.00	-23.00	270	100
4464.9300	43.88	---	-1.60	42.28	---	74.00	54.00	-31.72	120	100

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
133.0261	14.82	peak	14.08	28.90	43.50	-14.60	90	100
436.2725	3.76	peak	19.22	22.98	46.00	-23.02	260	100
572.3447	4.12	peak	21.67	25.79	46.00	-20.21	135	100
725.9118	2.60	peak	24.24	26.84	46.00	-19.16	100	100

Frequency (MHz)	Reading (dBuV) Peak	Reading (dBuV) Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Result @3m (dBuV/m) Ave.	Limit @3m (dBuV/m) Peak	Limit @3m (dBuV/m) Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
3763.5270	55.43	52.87	-2.83	52.60	50.04	74.00	54.00	-3.96	175	100
5993.9880	42.65	---	1.10	43.75	---	74.00	54.00	-30.25	130	100

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. See attached diagrams in appendix.

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 003, ETSTW-RE 004, ETSTW-RE 028, ETSTW-RE 029, ETSTW-RE 030, ETSTW-RE 044, ETSTW-RE 064

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 0.52 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

$$E\ (V/m) = \frac{\sqrt{30 \times P \times G}}{d} \qquad \text{Power Density: } Pd\ (W/m^2) = \frac{E^2}{377}$$

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

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

Max output power (W)	Antenna numeric Gain	Power Density(S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
2.91	3.02	0.258	0.27	Complies

From the peak EUT RF output power, the minimum mobile separation distance, d=0.52 m, as well as the gain of the used antenna, the RF power density can be obtained.

Appendix

A Measurement diagrams

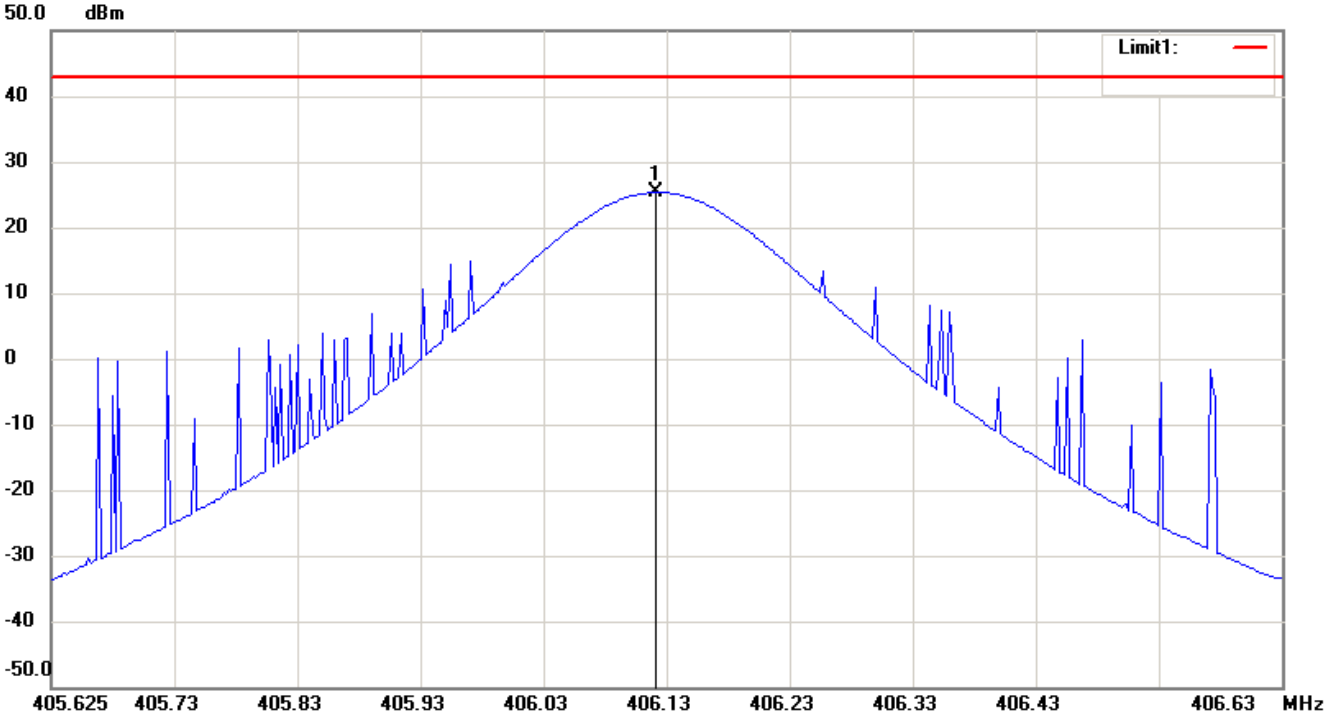
1. Power
2. Radiated Spurious Emission

B Photos

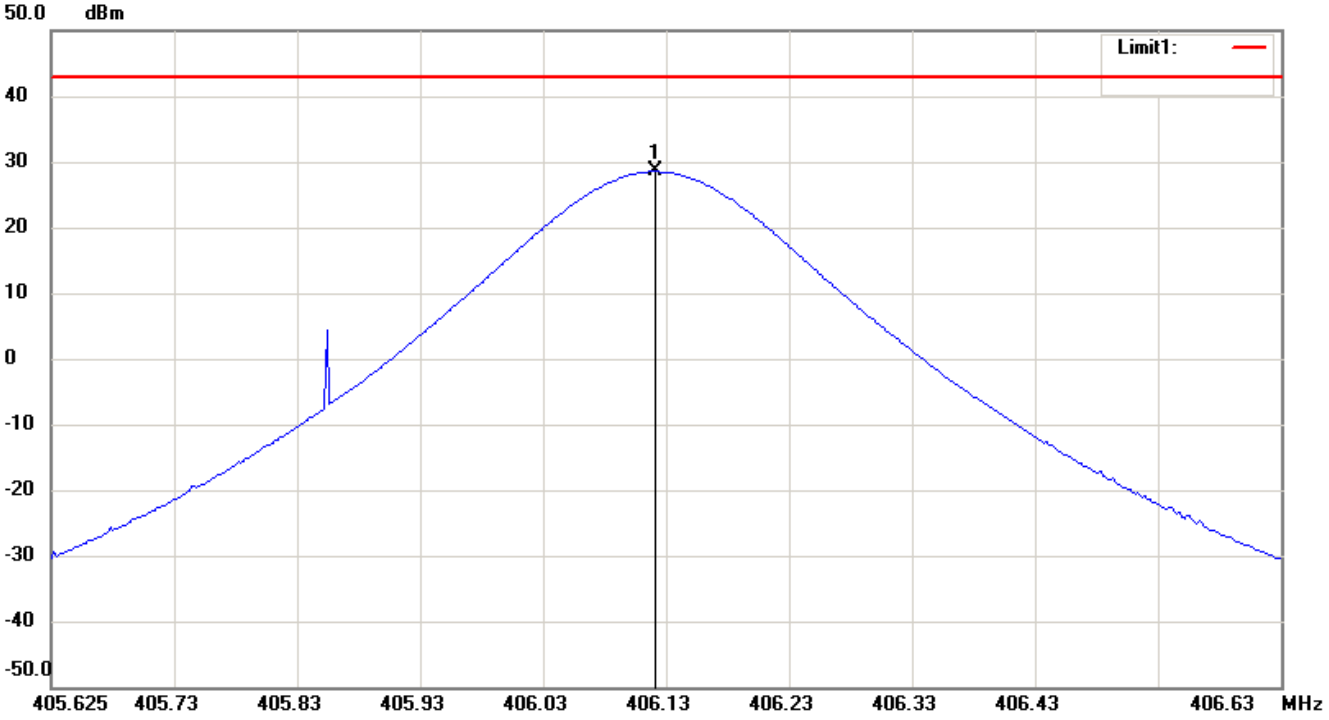
1. External Photos
2. Internal Photos
3. Set Up Photo of Radiated Emission

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

Power
12.5 kHz-406.125 MHz
Antenna Polarization H



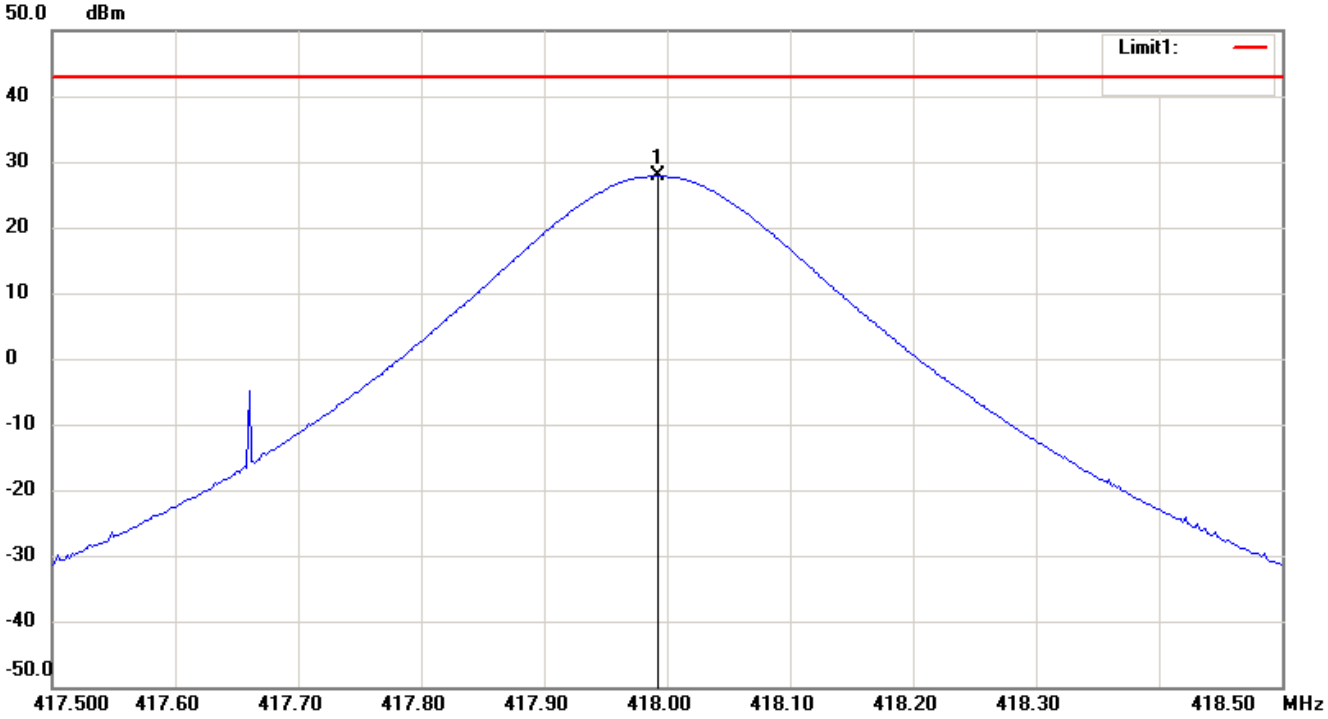
Antenna Polarization V



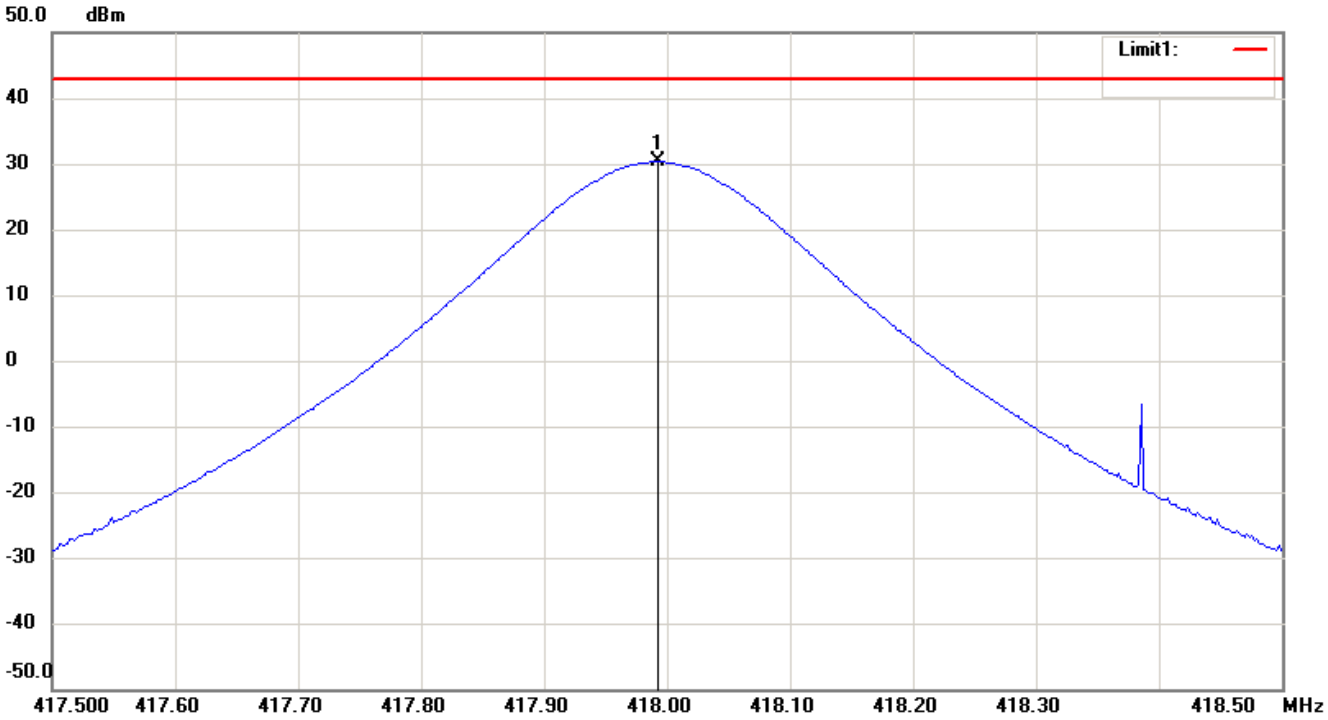
Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

12.5 kHz-418 MHz

Antenna Polarization H



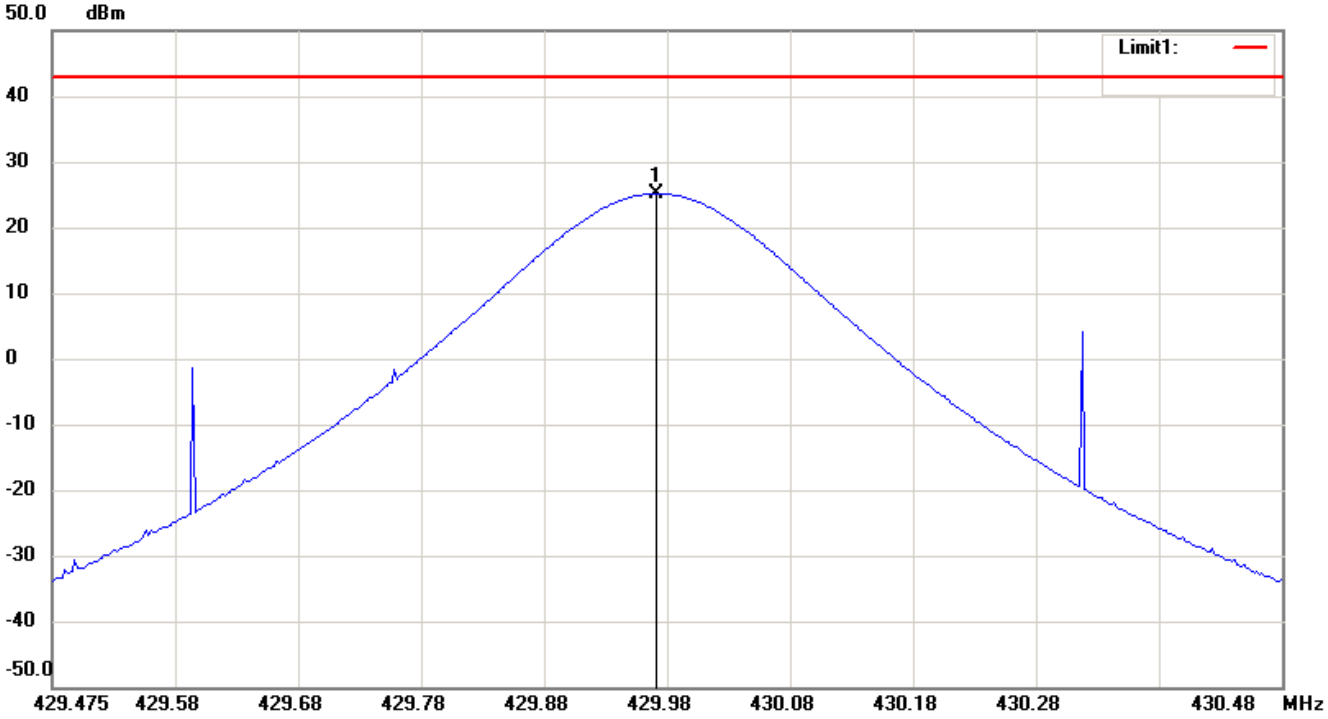
Antenna Polarization V



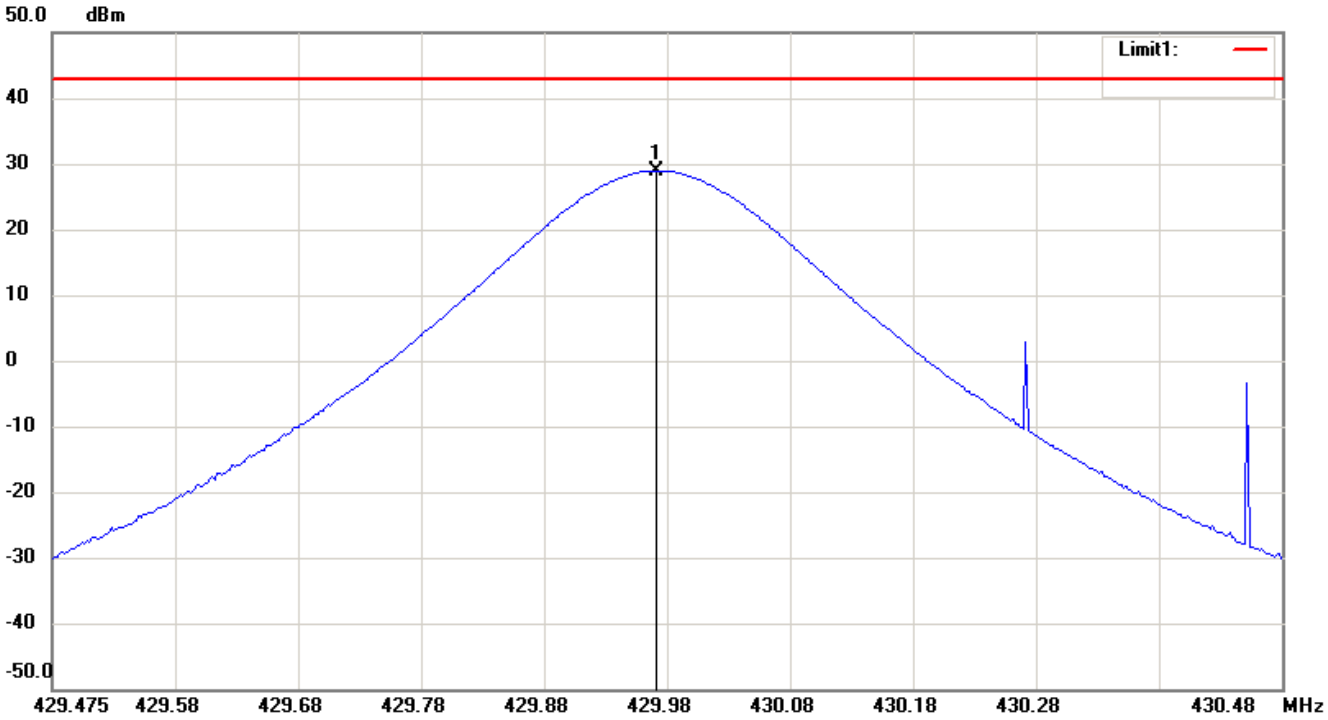
Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

12.5 kHz-429.975 MHz

Antenna Polarization H



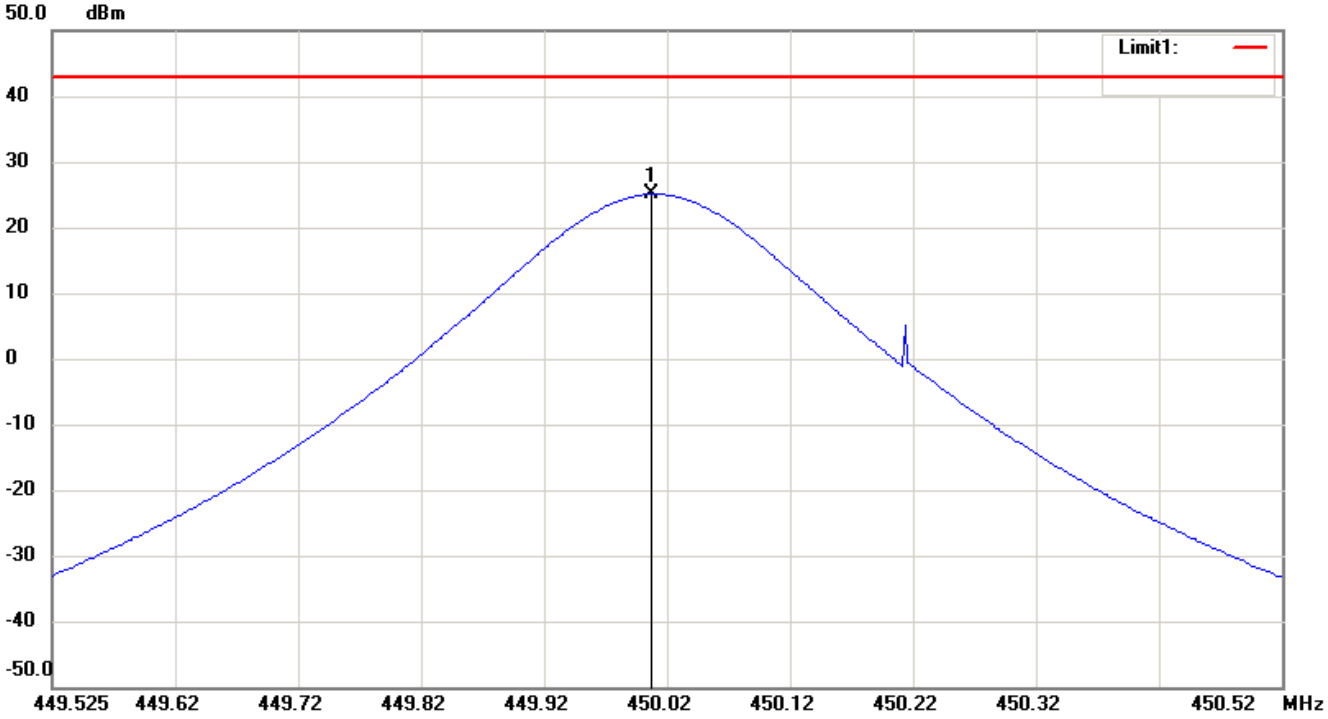
Antenna Polarization V



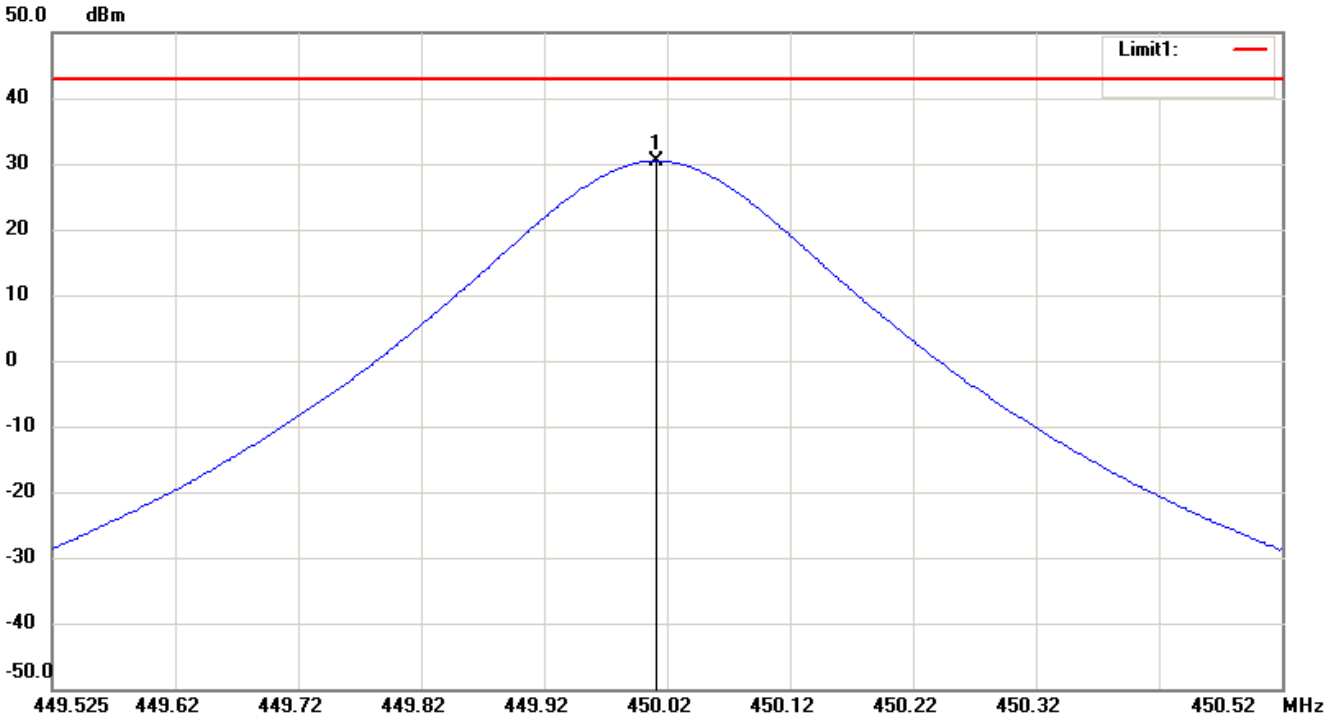
Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

12.5 kHz-450.025 MHz

Antenna Polarization H



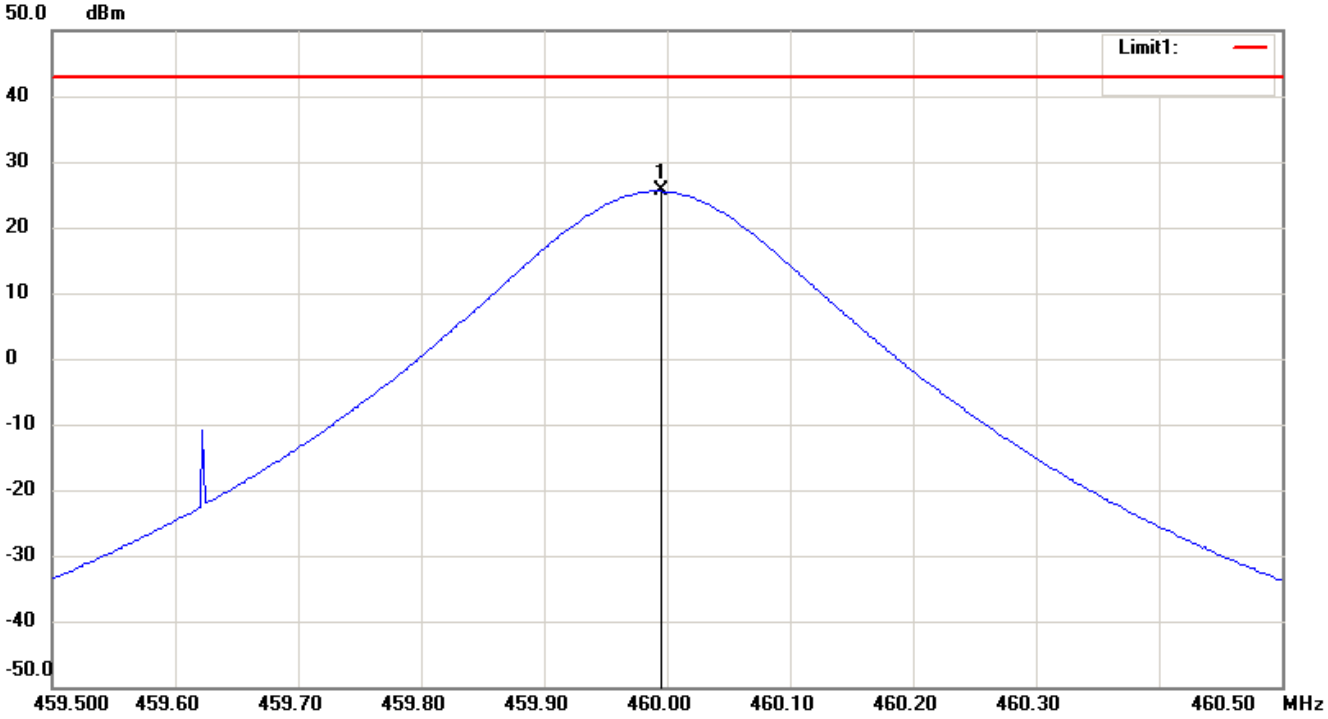
Antenna Polarization V



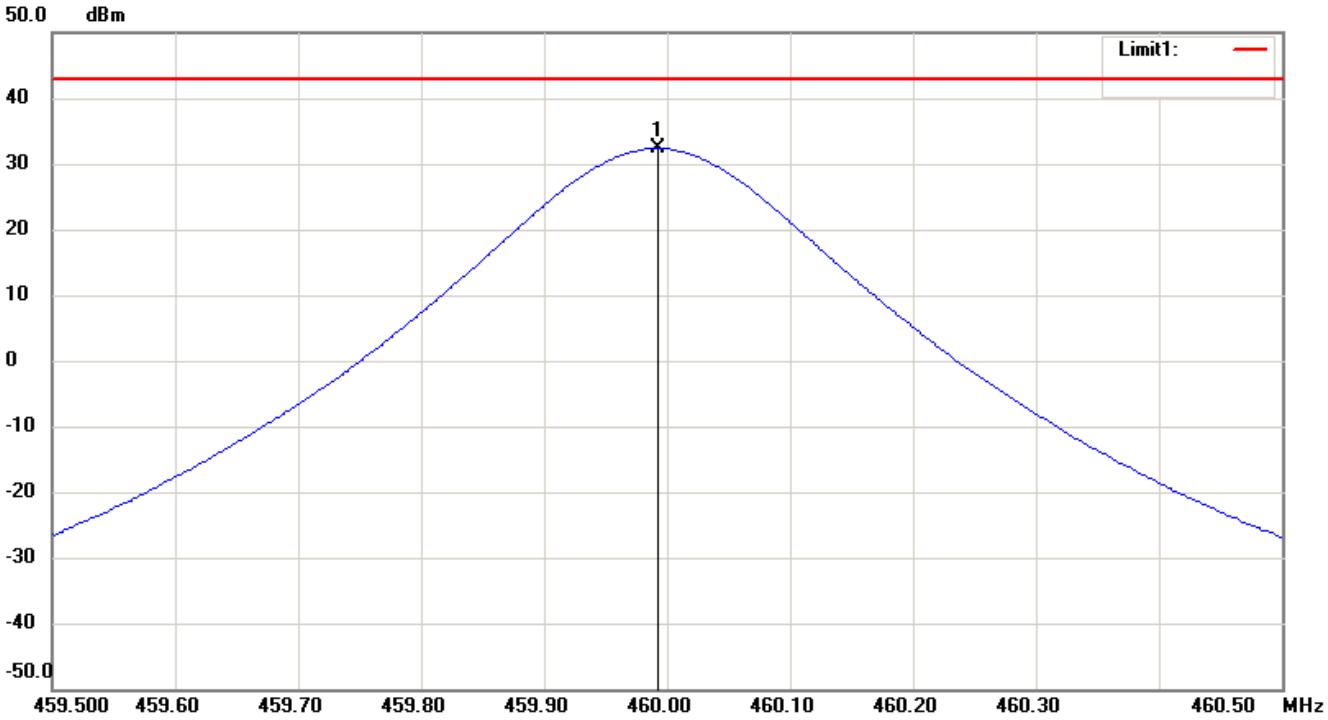
Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

12.5 kHz-460 MHz

Antenna Polarization H



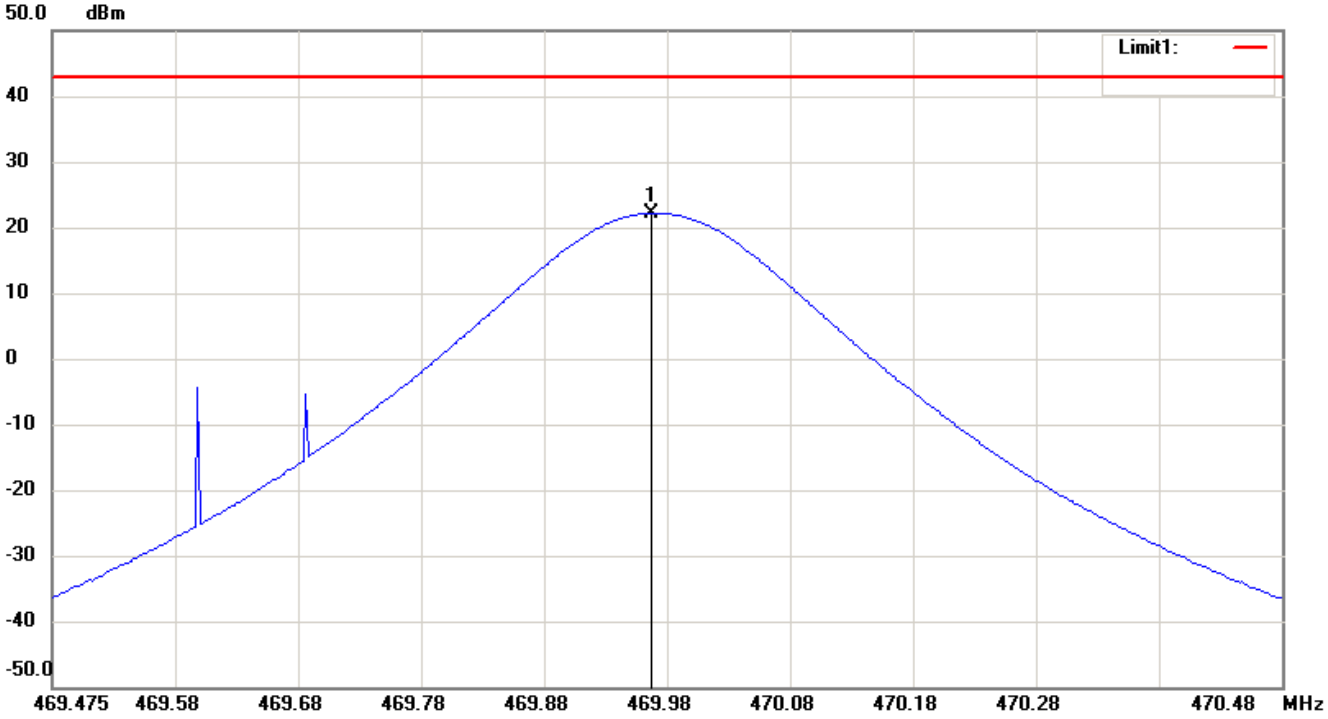
Antenna Polarization V



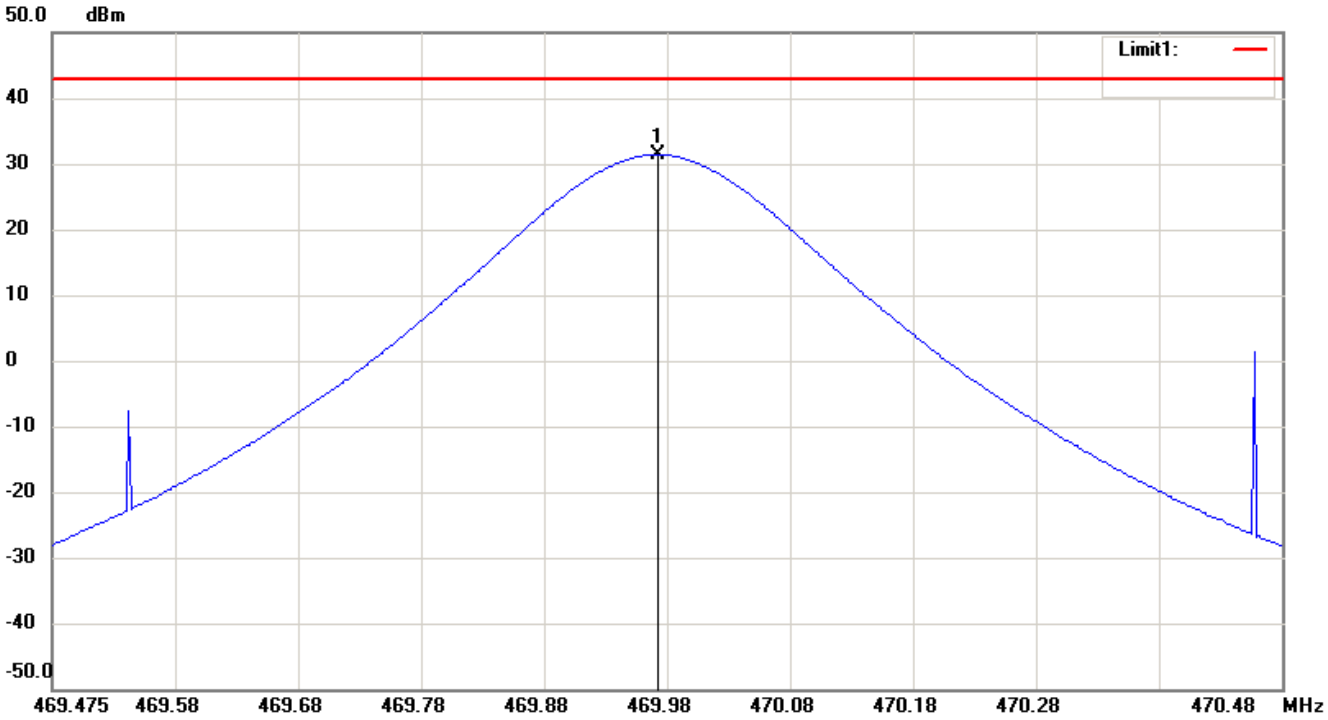
Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

12.5 kHz-469.975 MHz

Antenna Polarization H



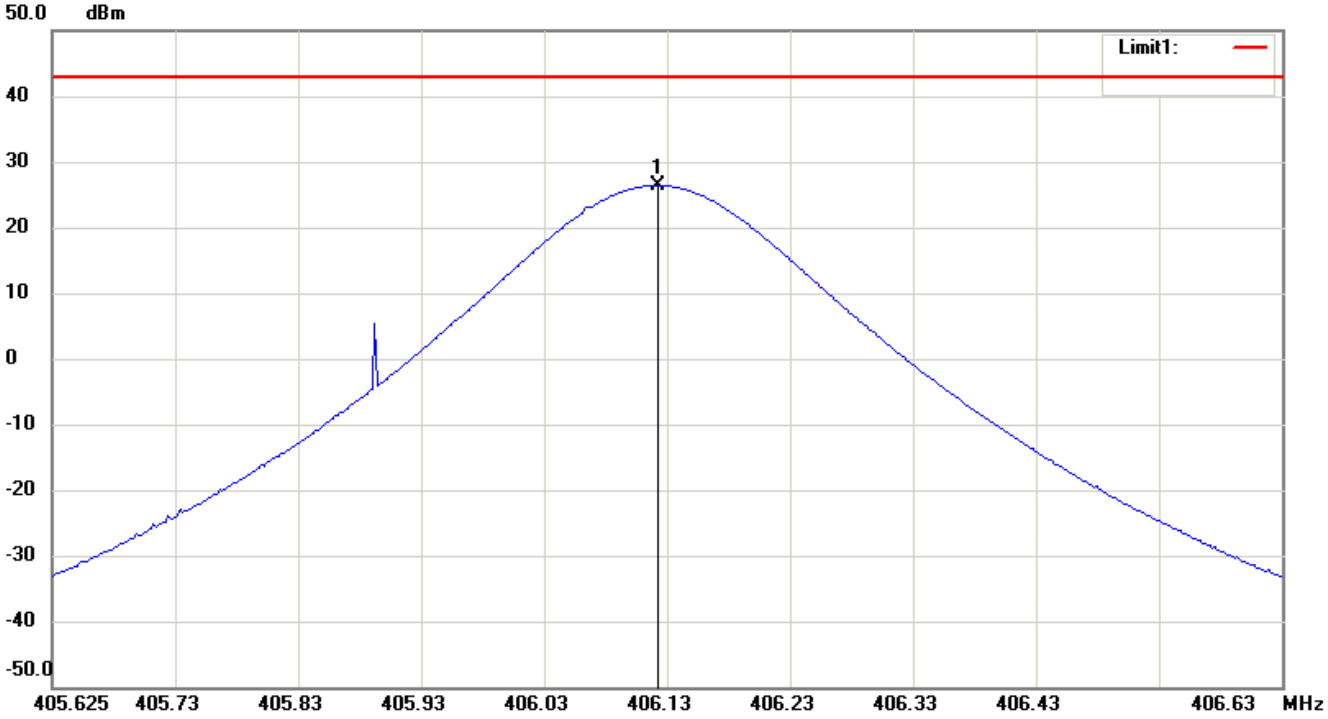
Antenna Polarization V



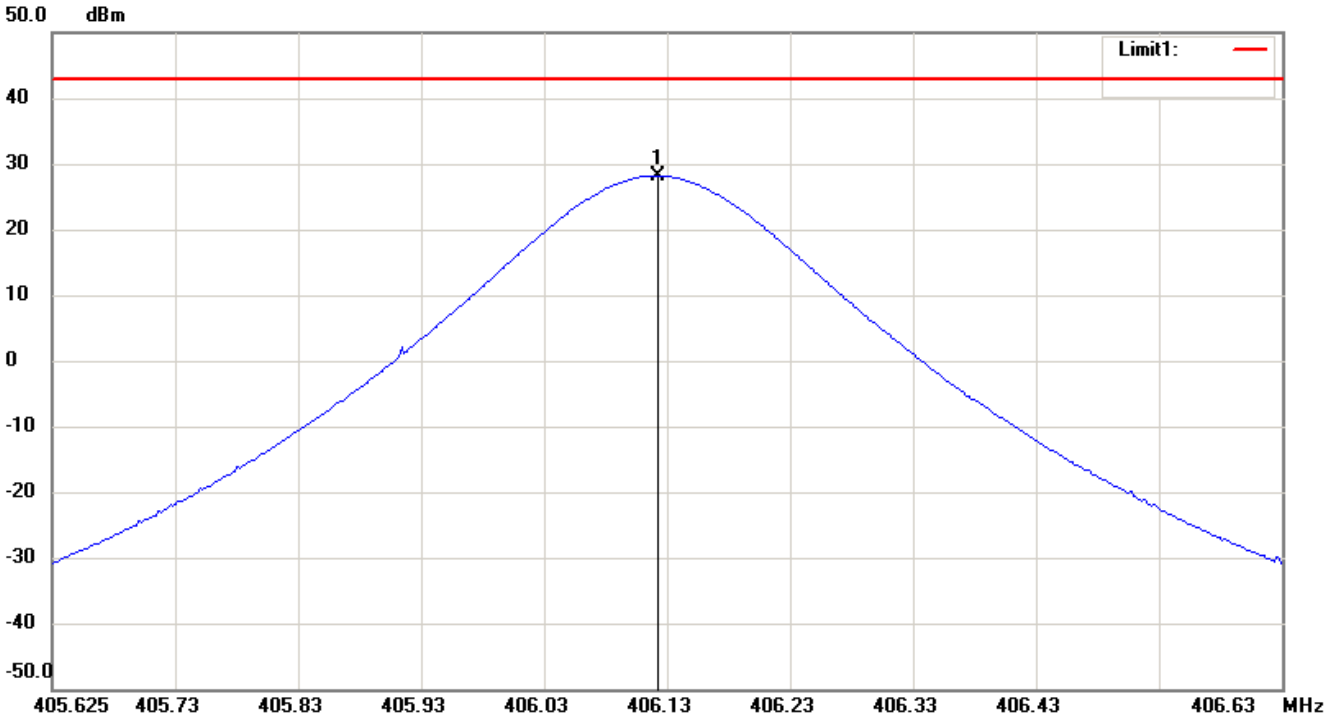
Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

25 kHz-406.125 MHz

Antenna Polarization H



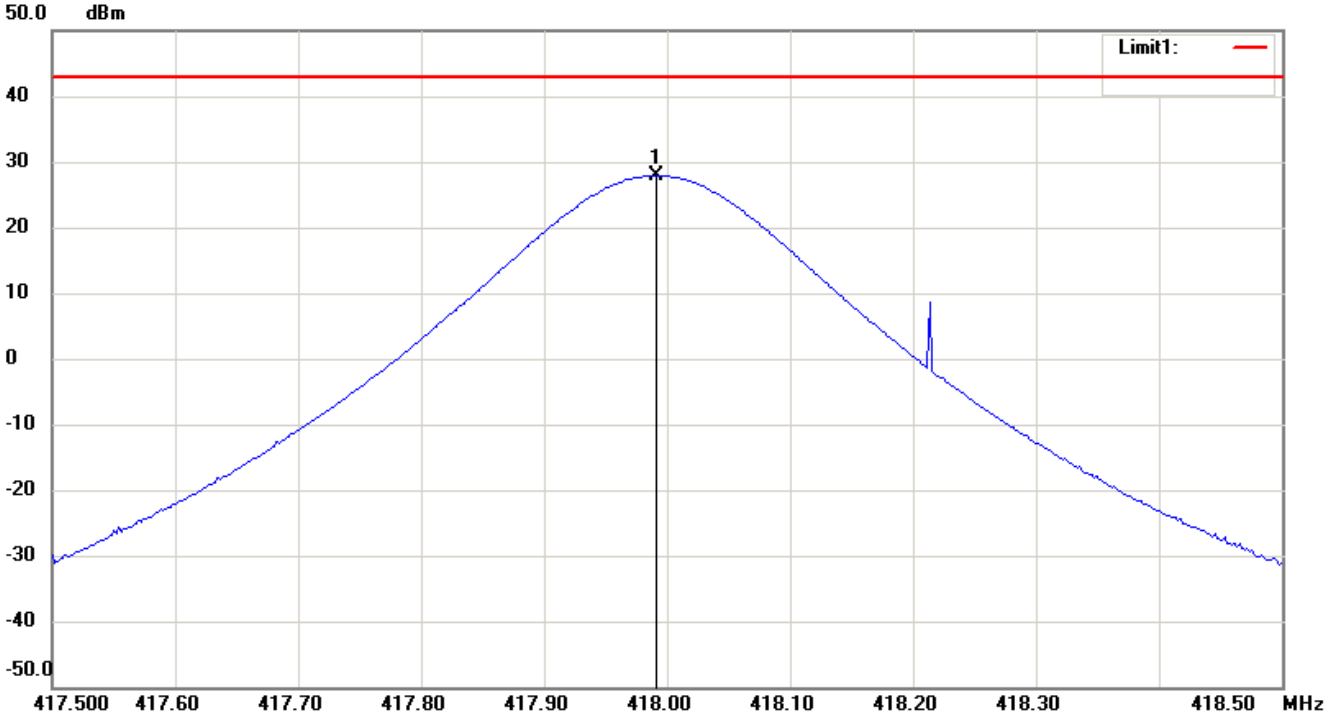
Antenna Polarization V



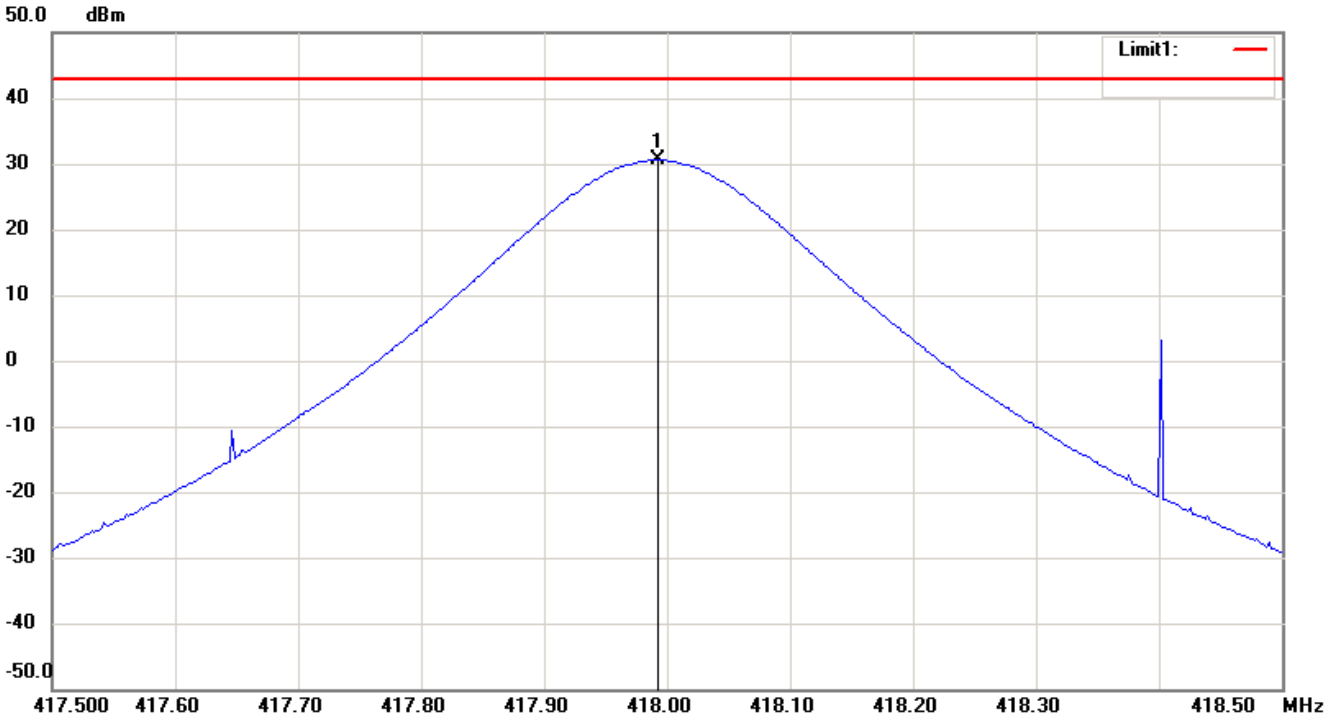
Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

25 kHz-418 MHz

Antenna Polarization H



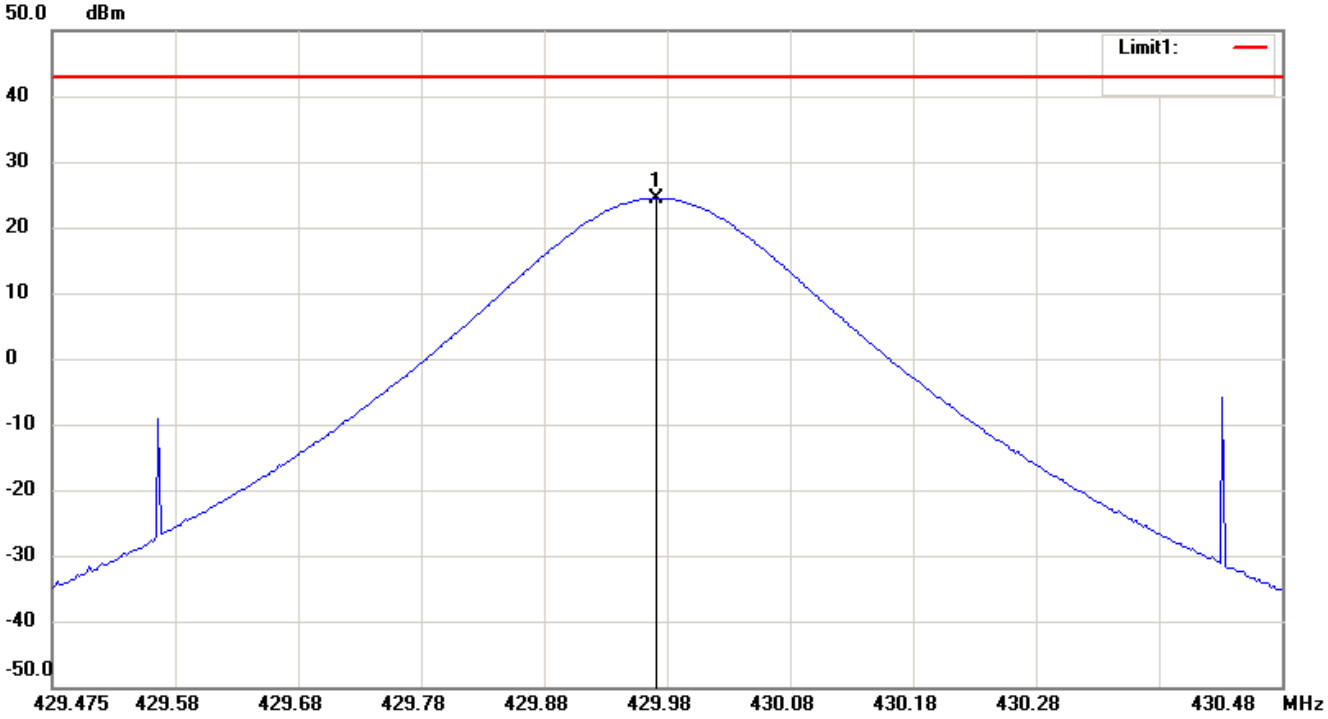
Antenna Polarization V



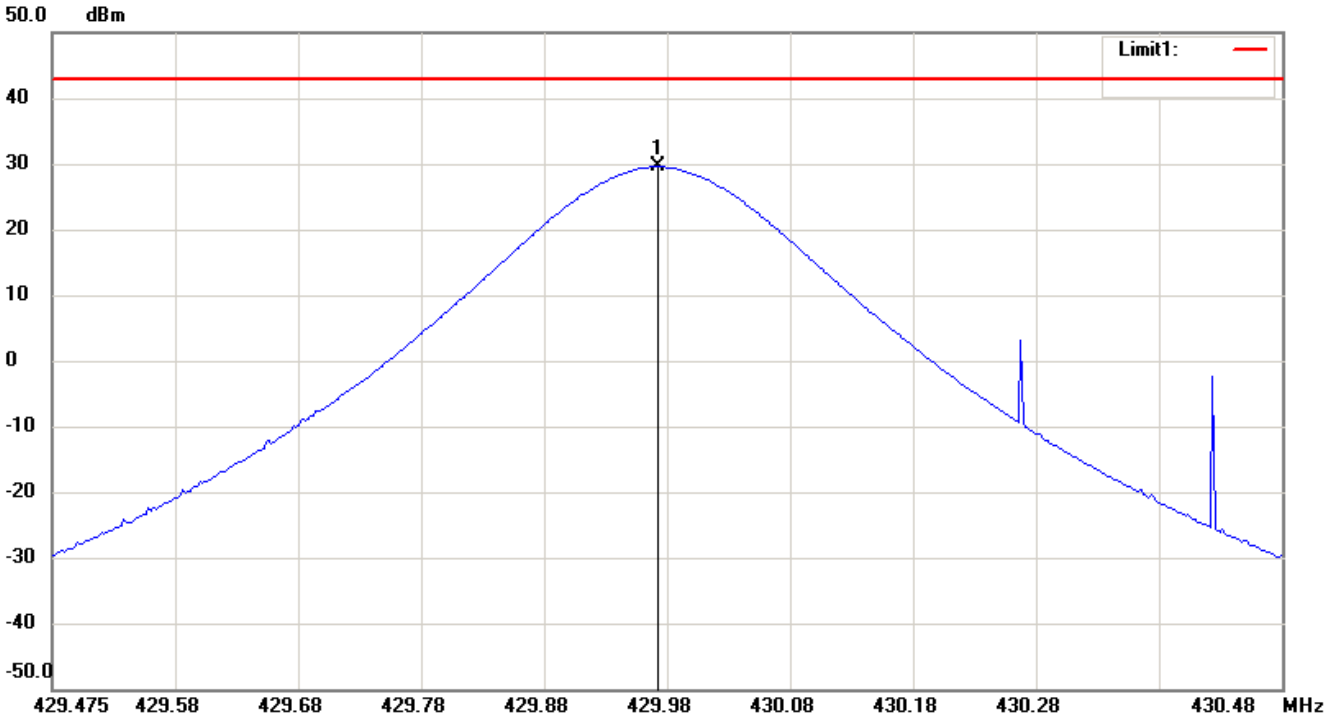
Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

25 kHz-429.975 MHz

Antenna Polarization H



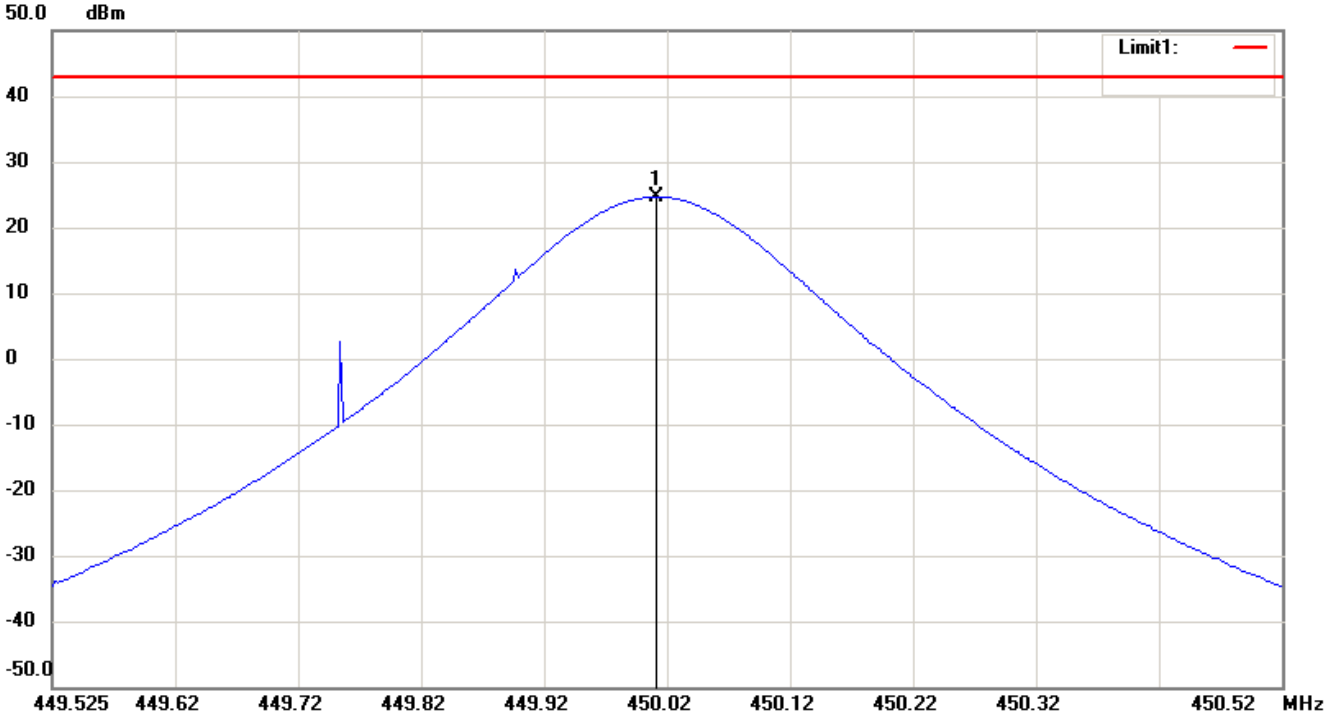
Antenna Polarization V



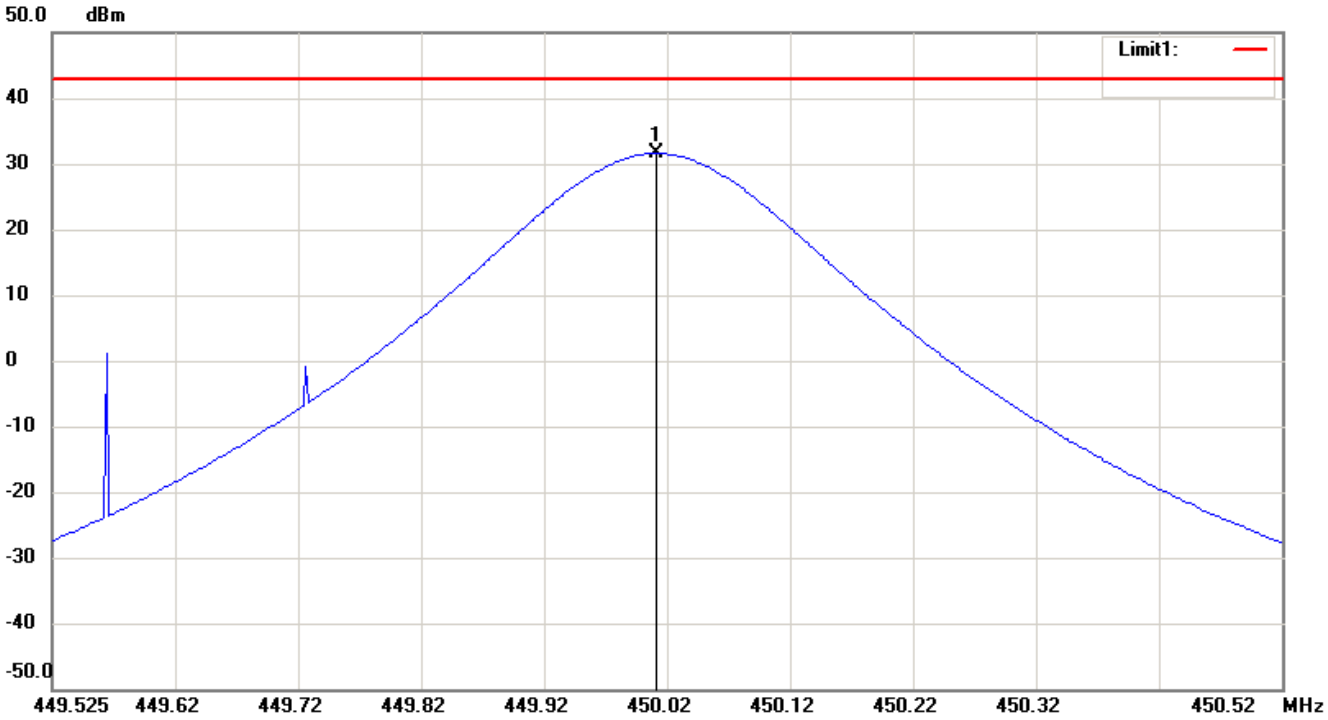
Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

25 kHz-450.025 MHz

Antenna Polarization H



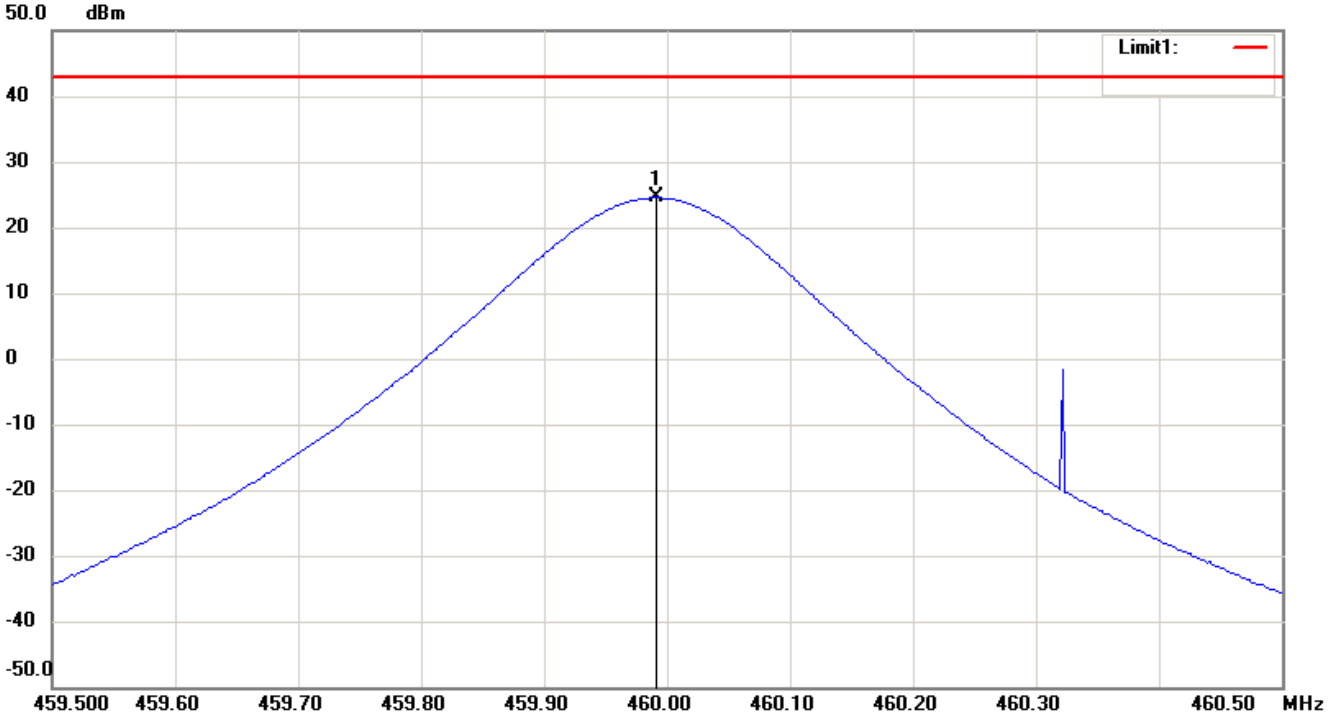
Antenna Polarization V



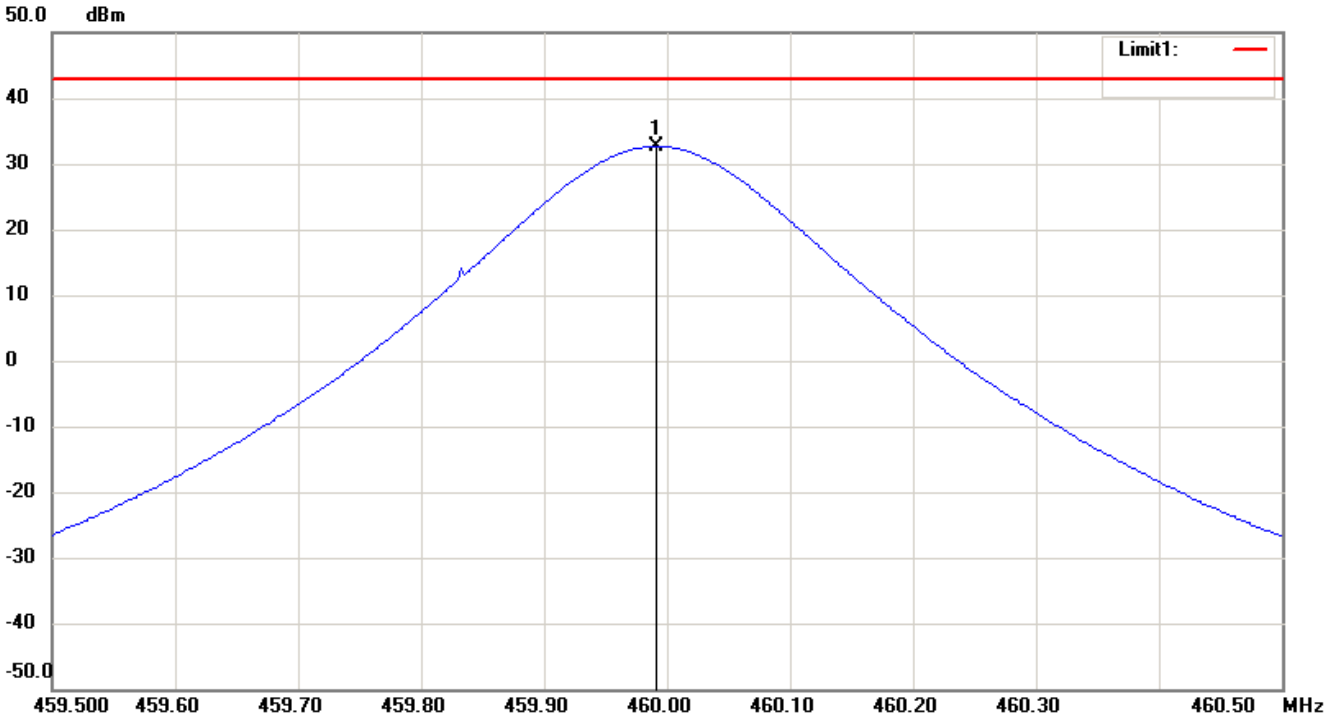
Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

25 kHz-460 MHz

Antenna Polarization H



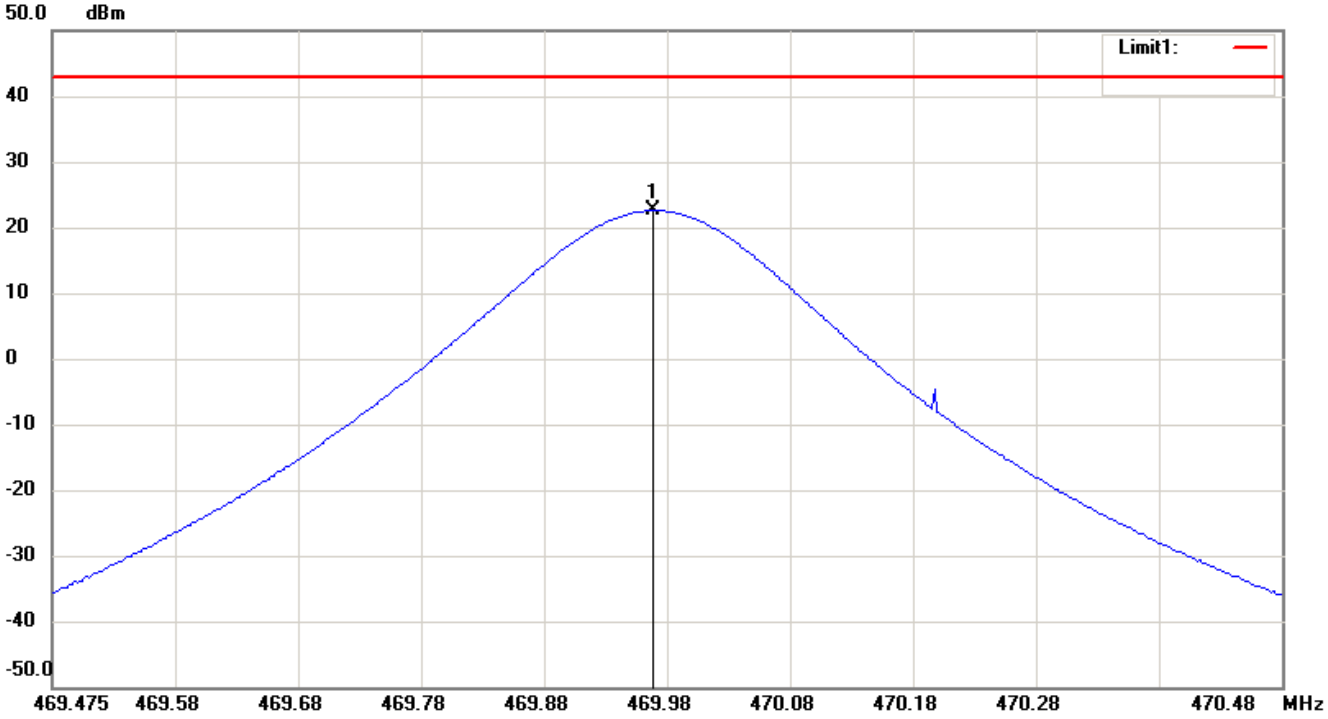
Antenna Polarization V



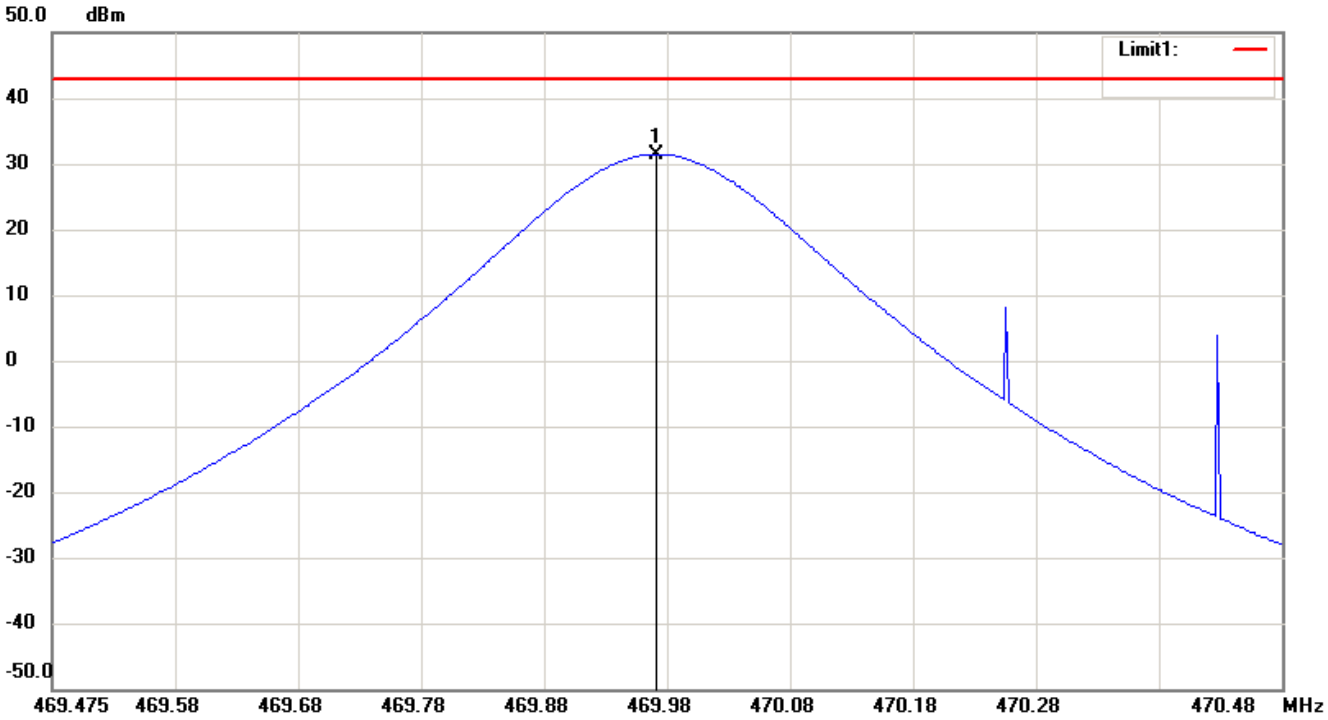
Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

25 kHz-469.975 MHz

Antenna Polarization H

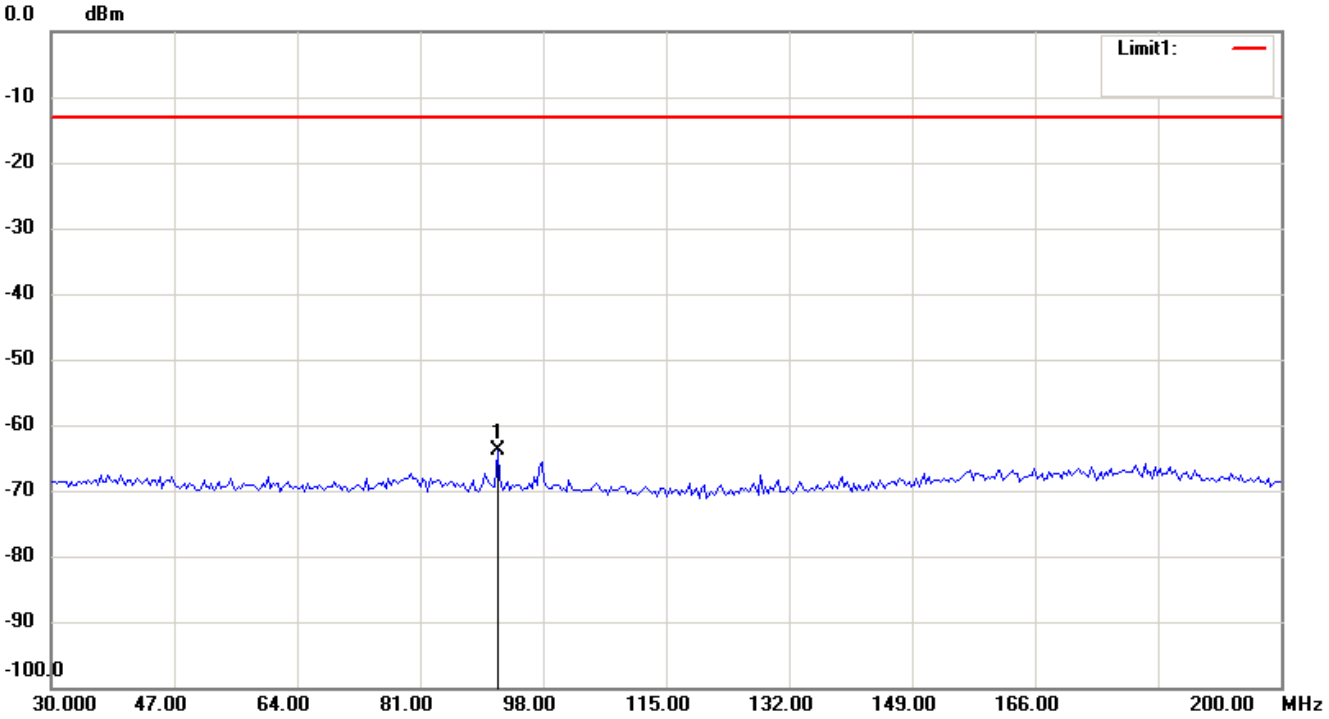


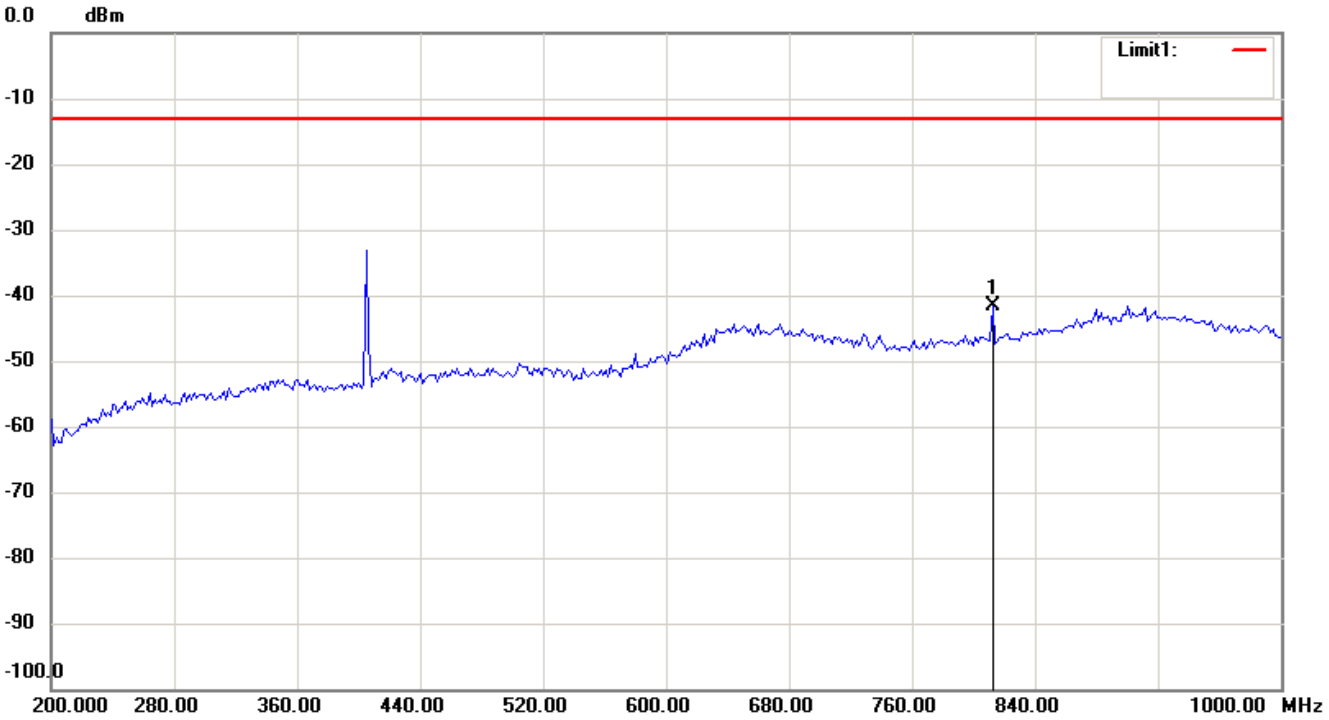
Antenna Polarization V



Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

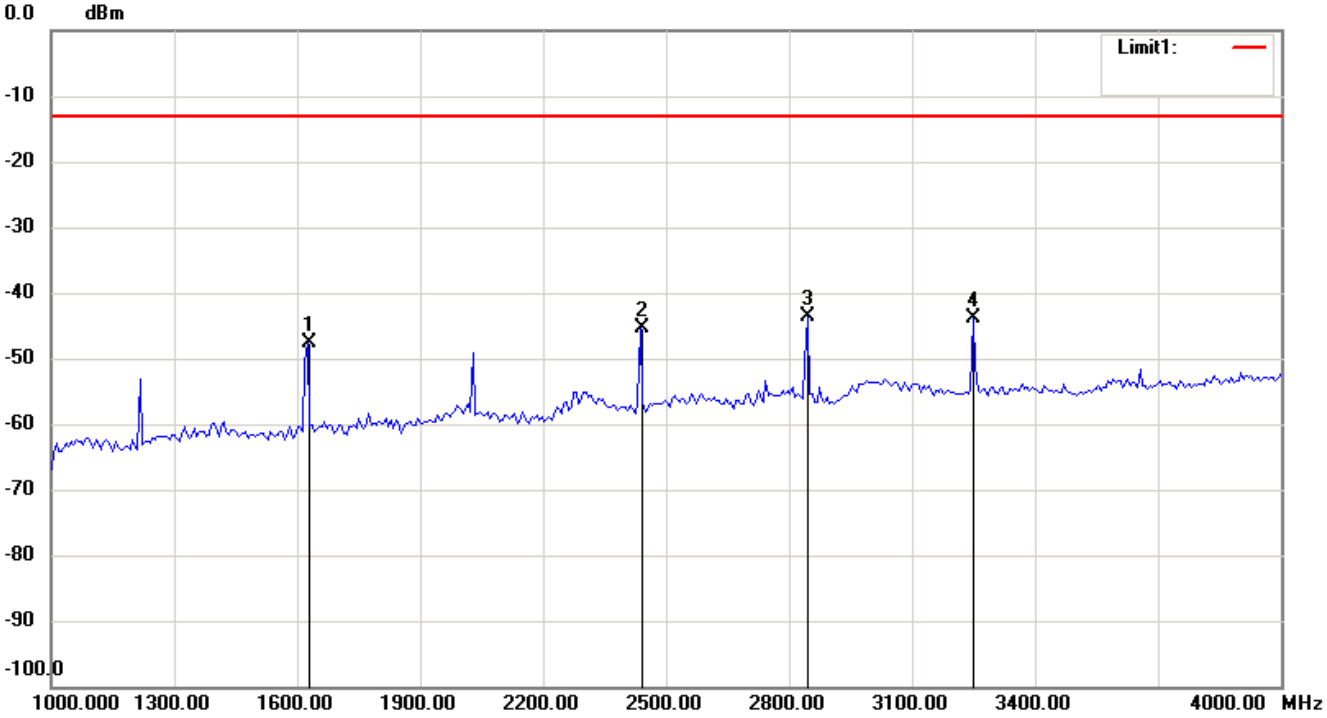
Radiated Spurious Emission-TX
12.5 kHz-406.125 MHz
Antenna Polarization H

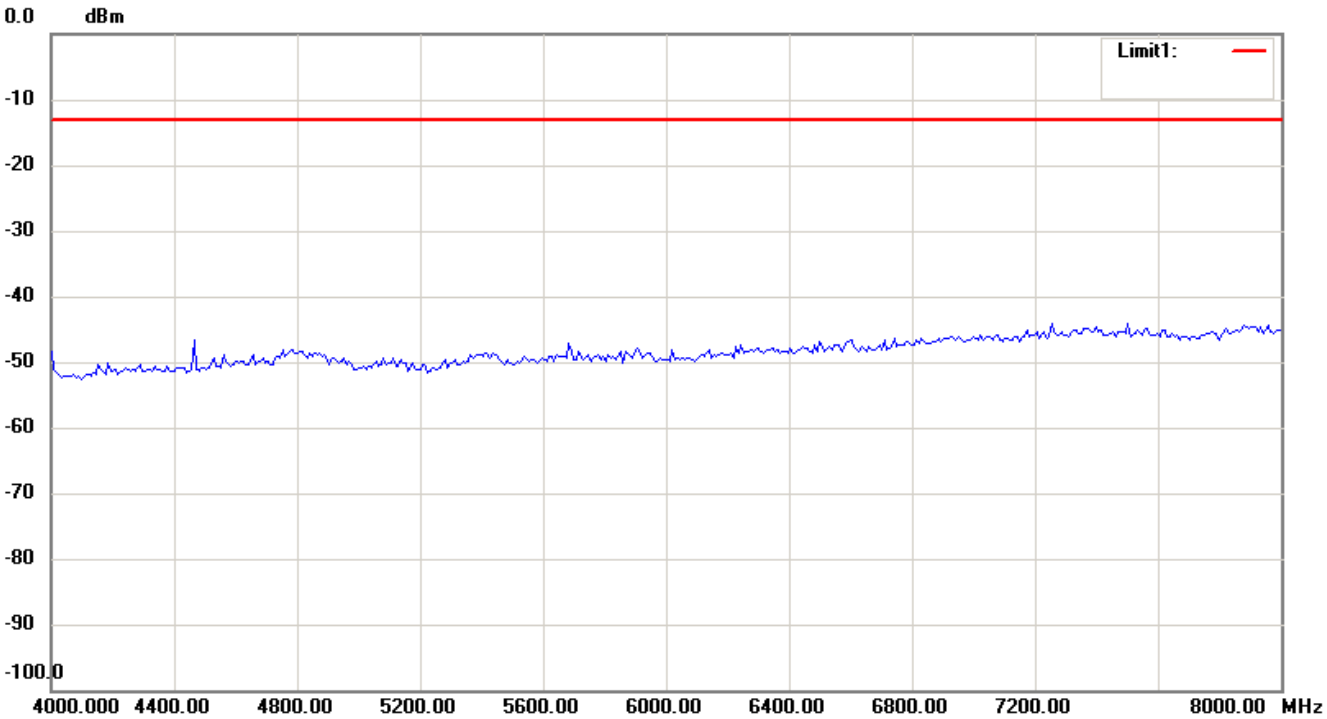




Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**



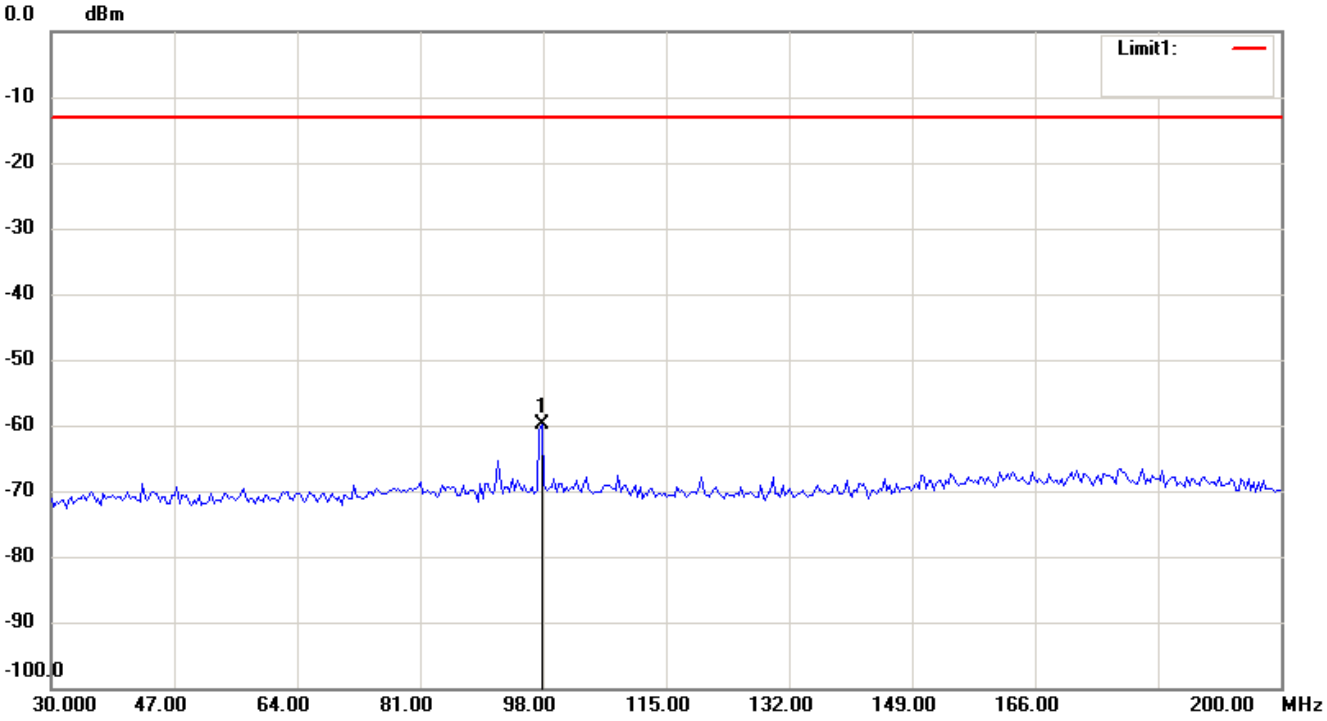


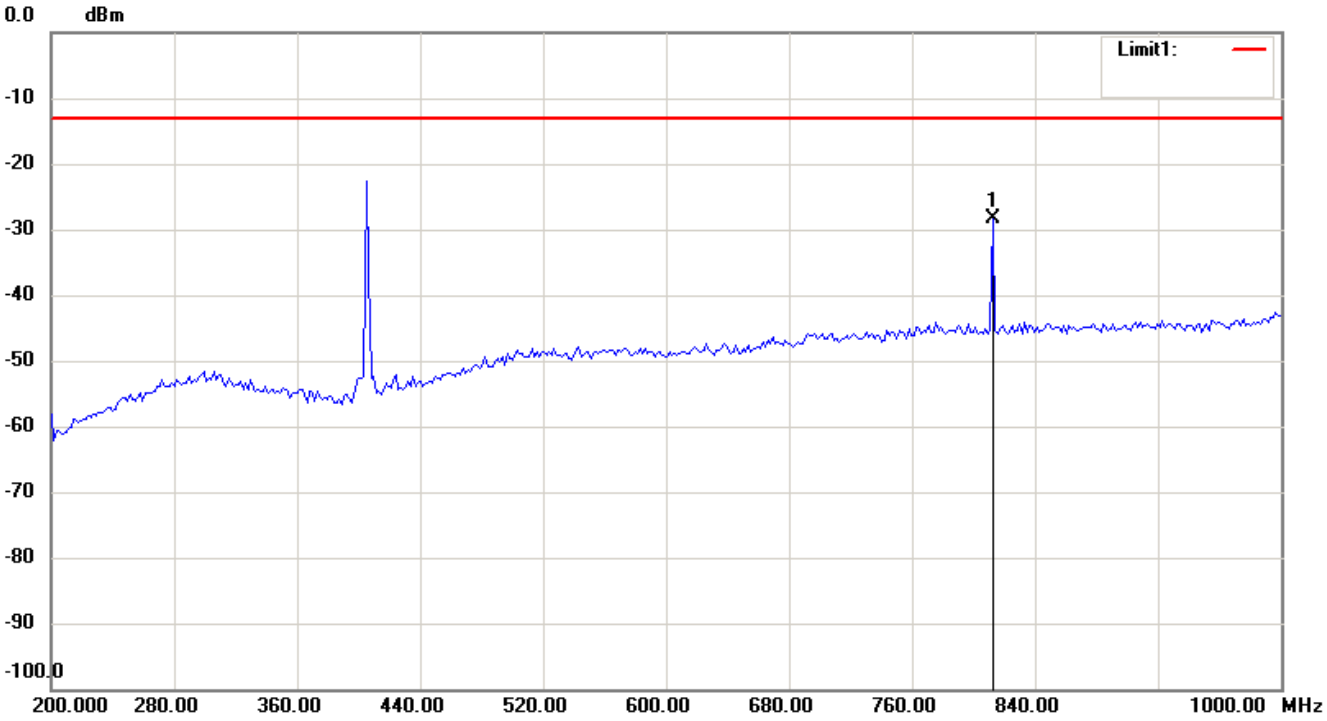
Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

Antenna Polarization V

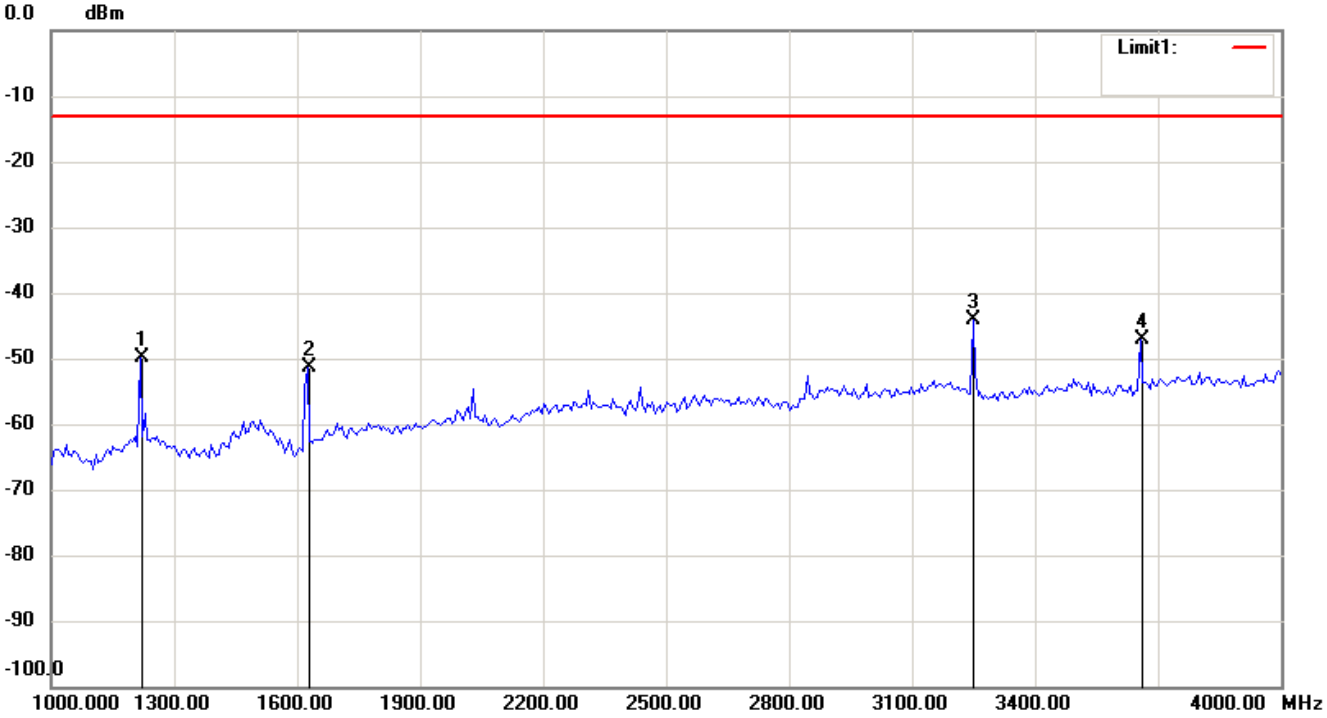


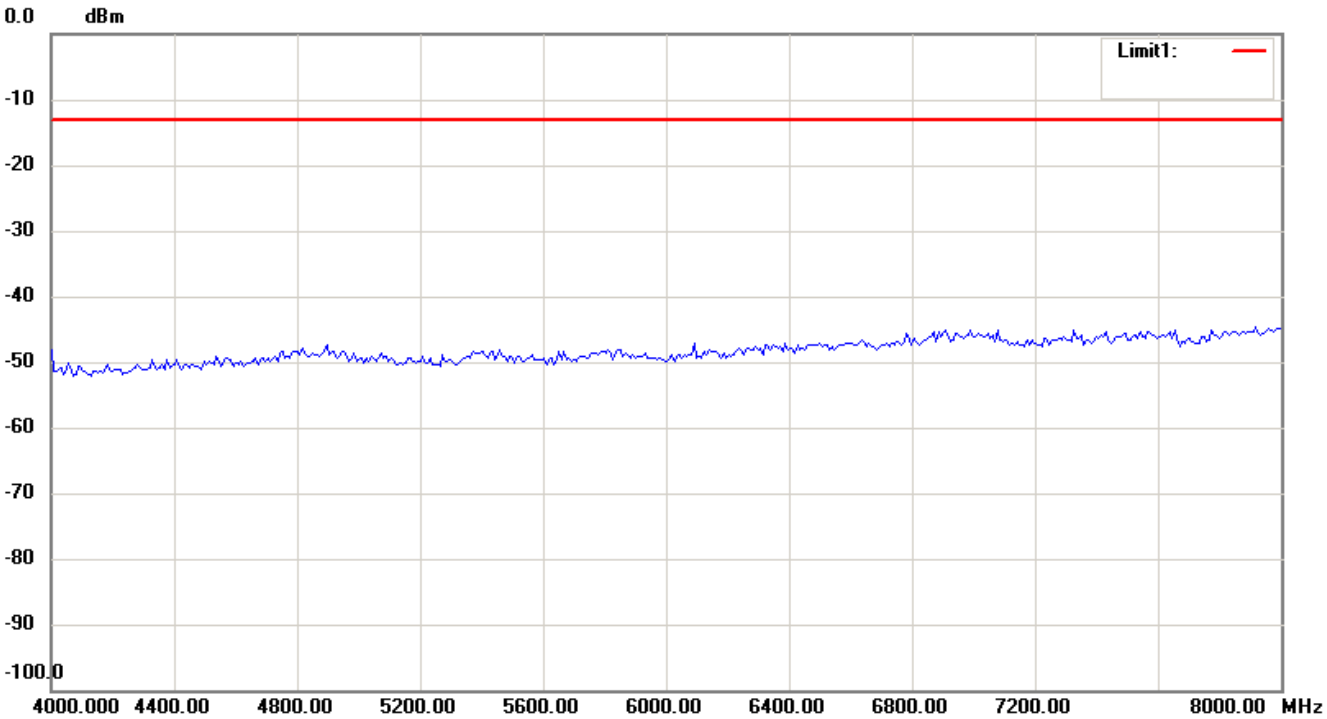


Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B





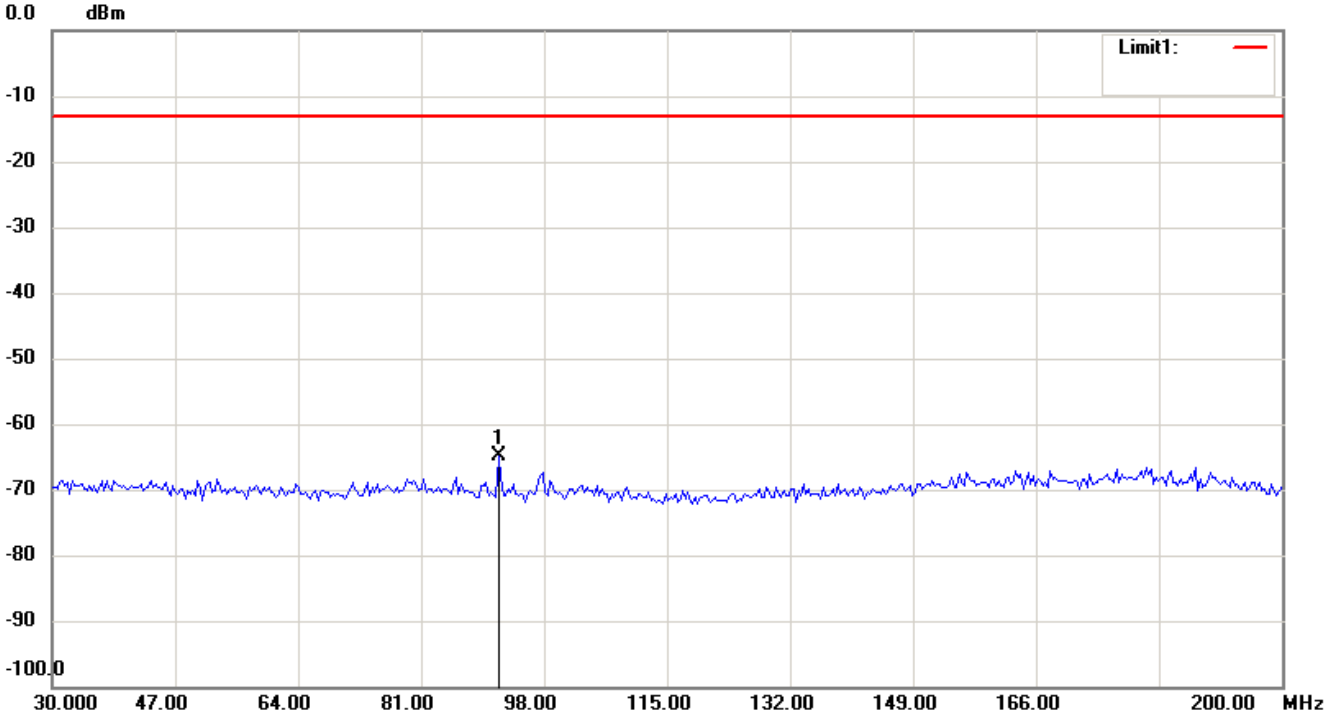
Note:

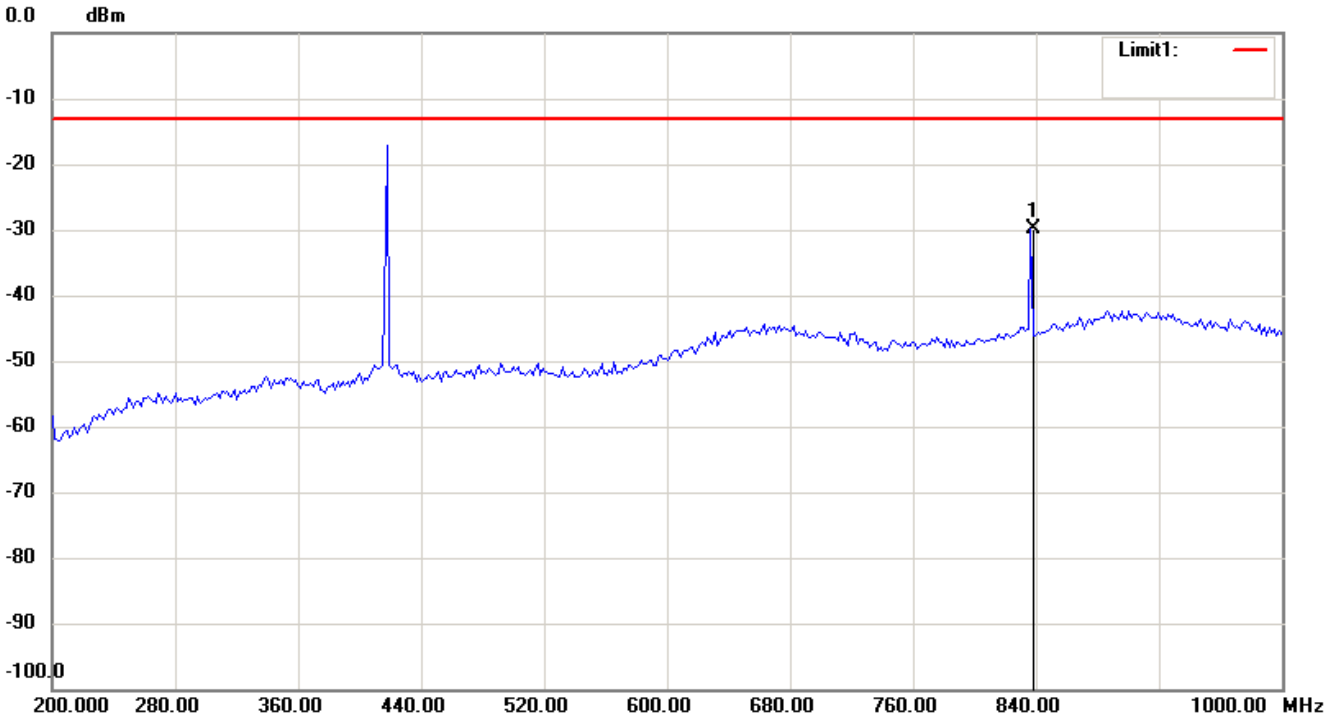
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

12.5 kHz-418 MHz

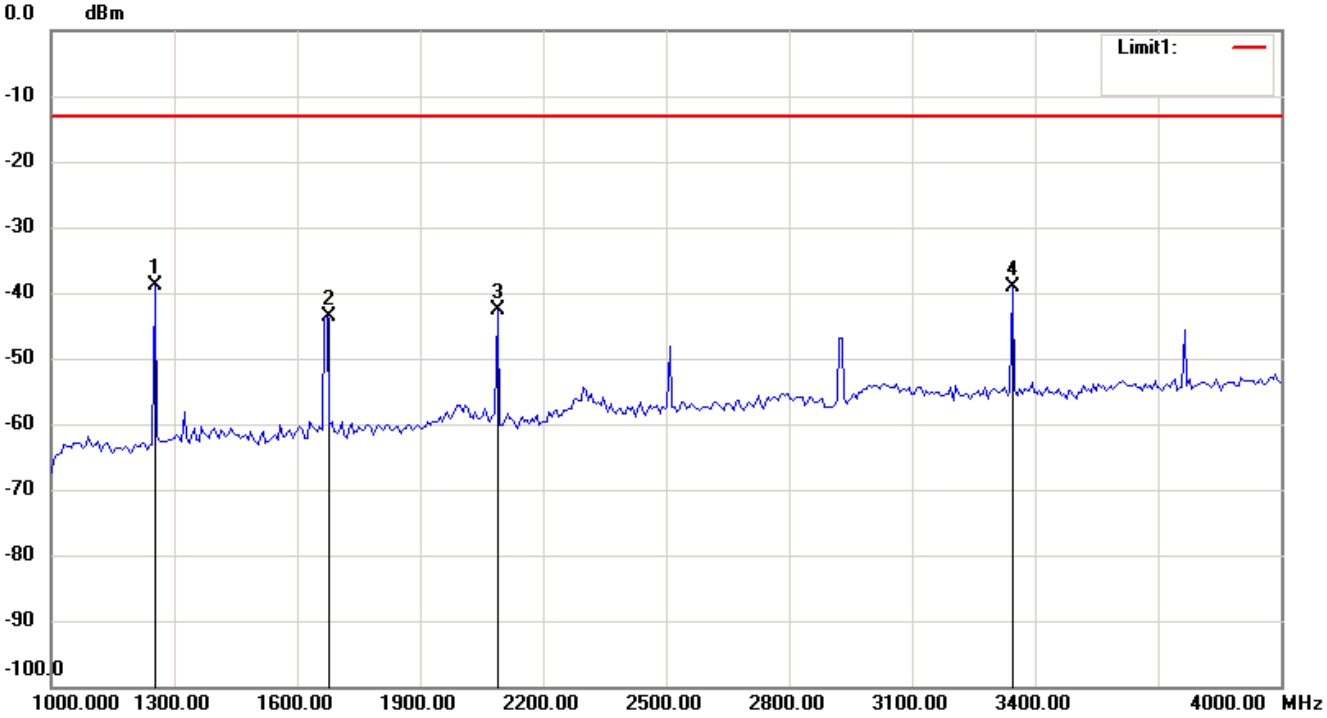
Antenna Polarization H

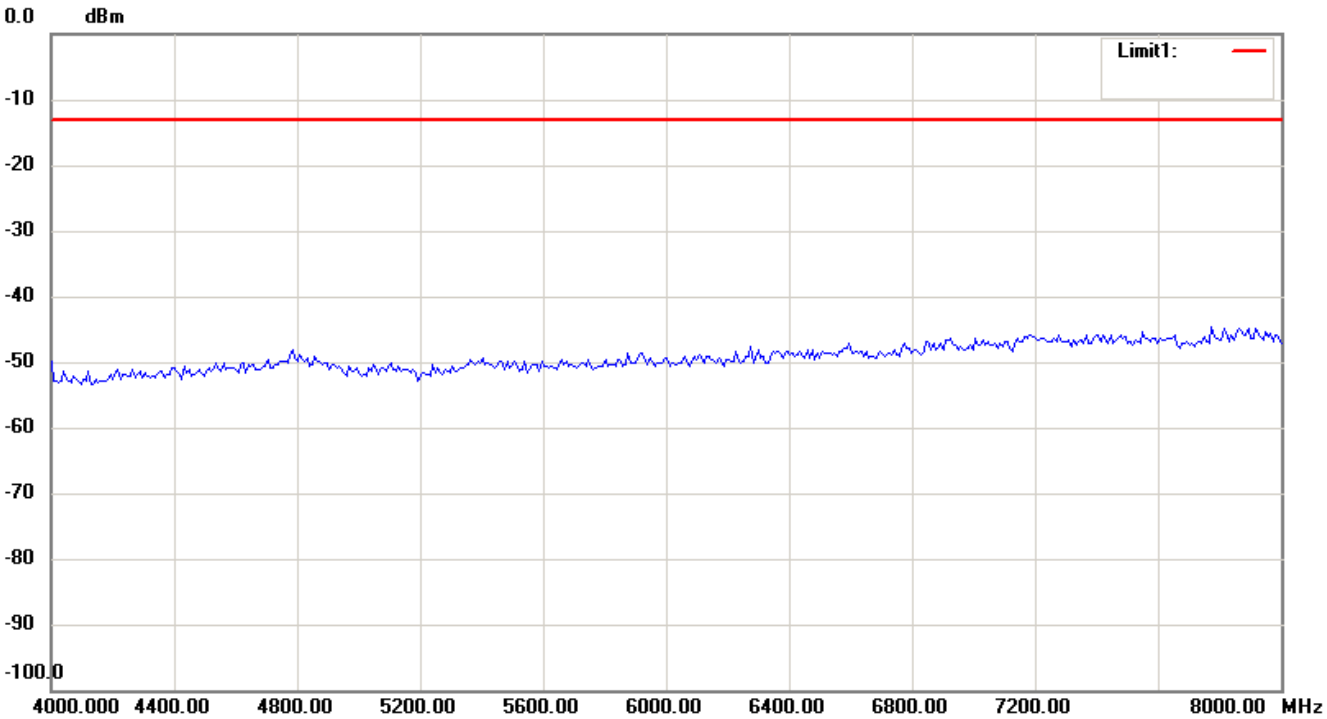




Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**



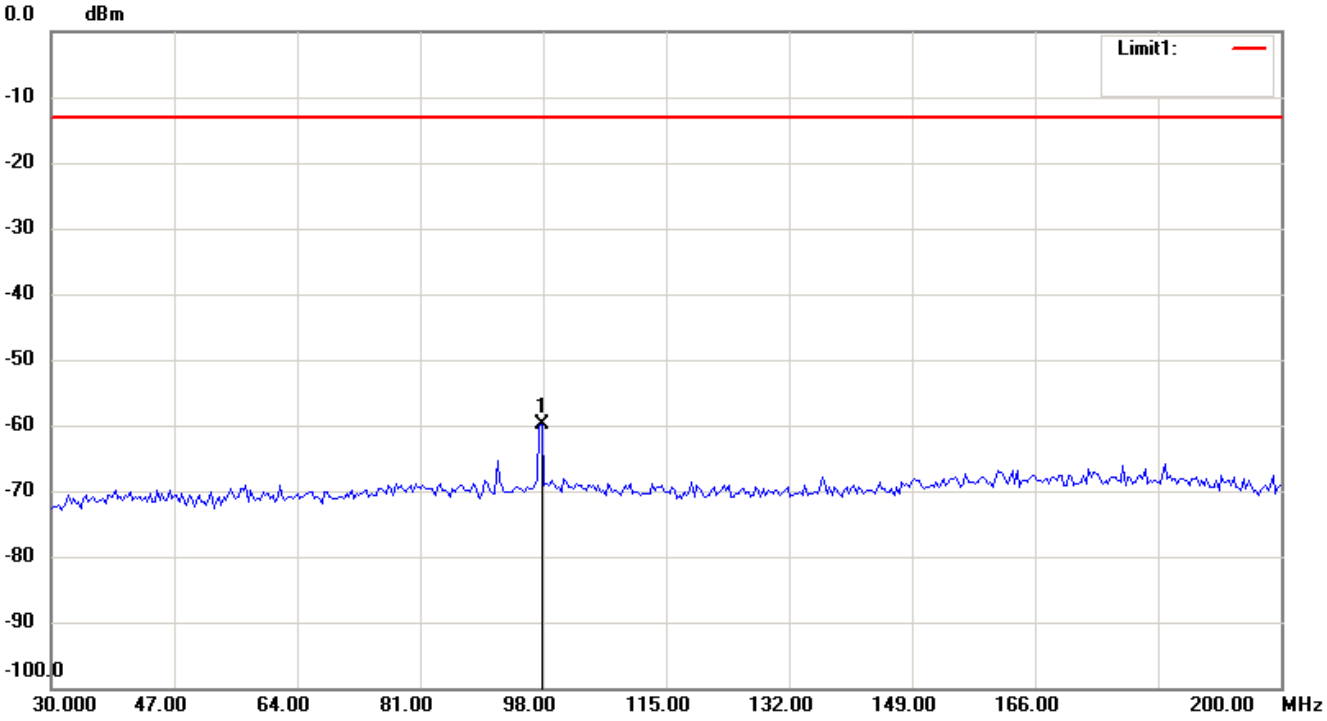


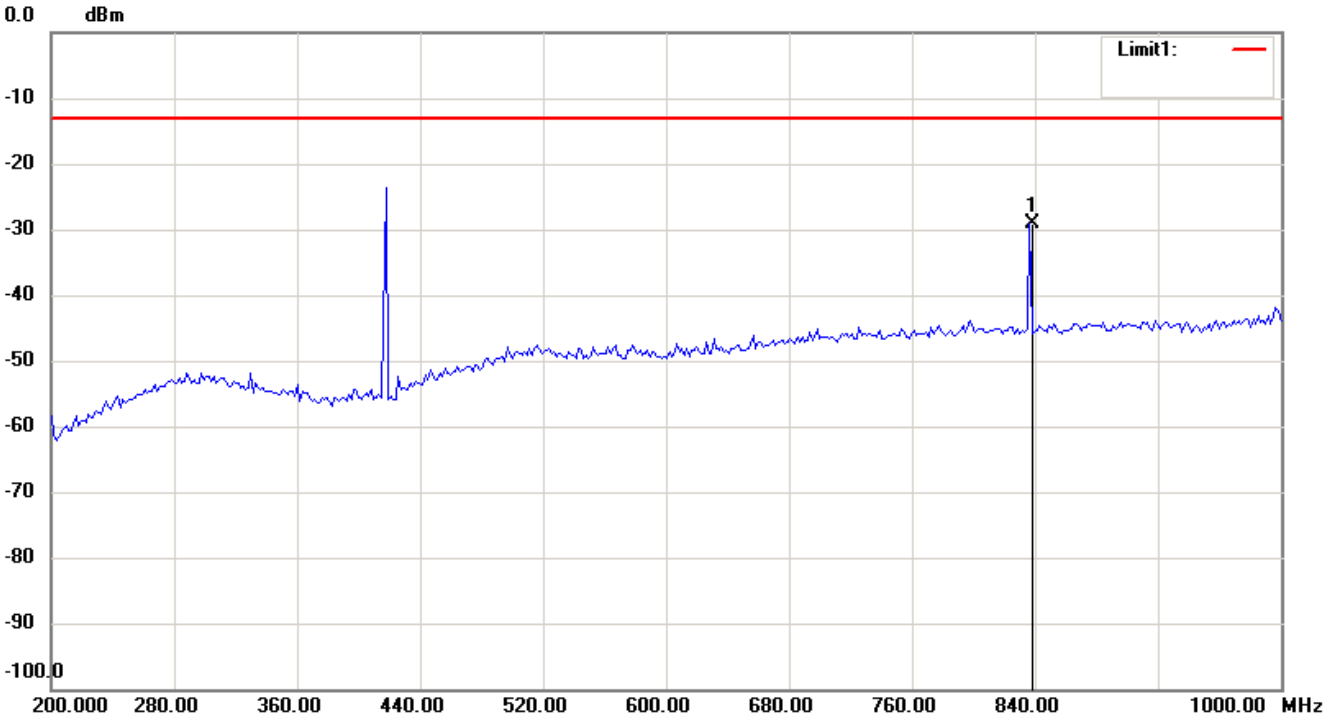
Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

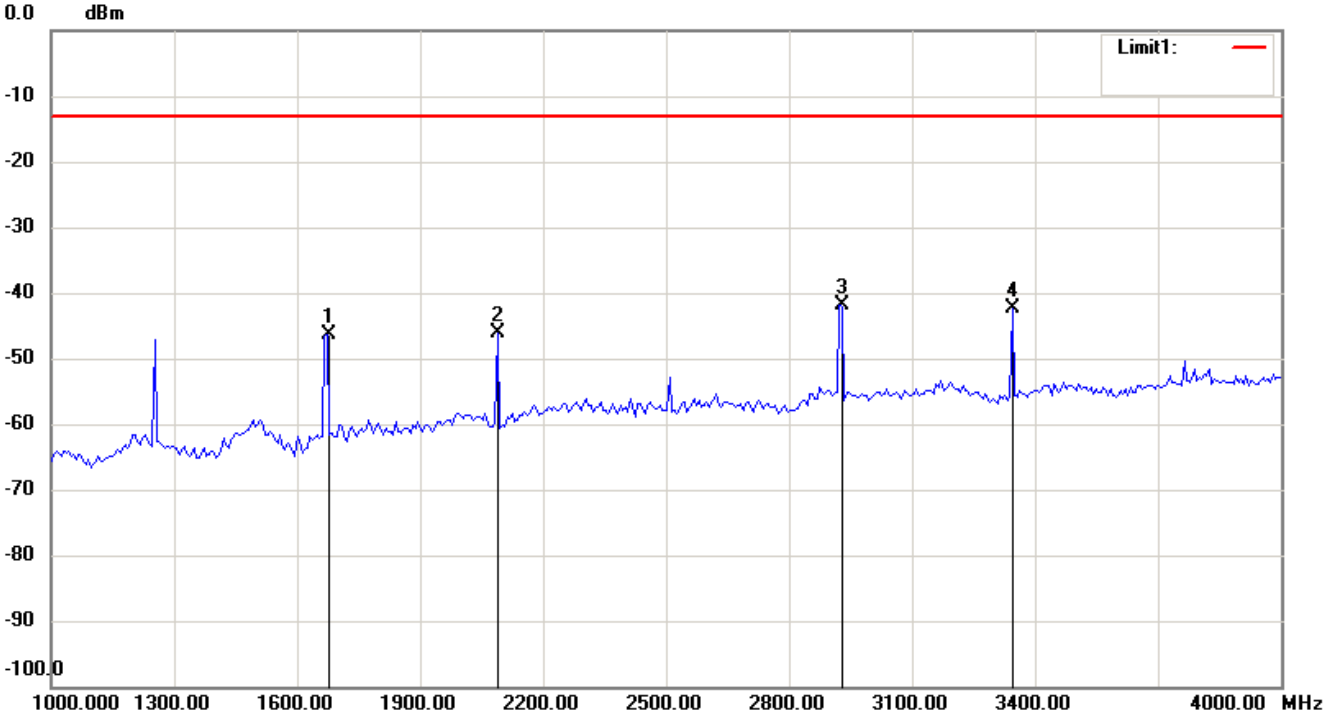
Antenna Polarization V

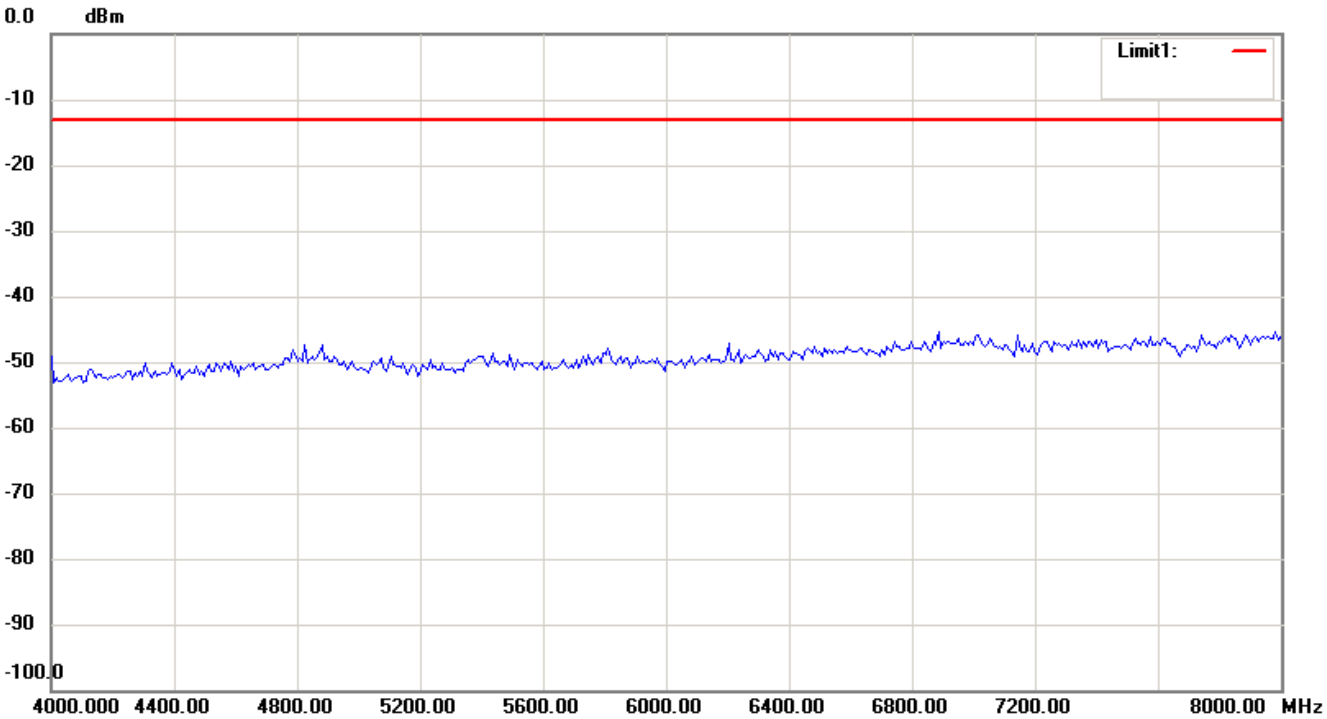




Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**





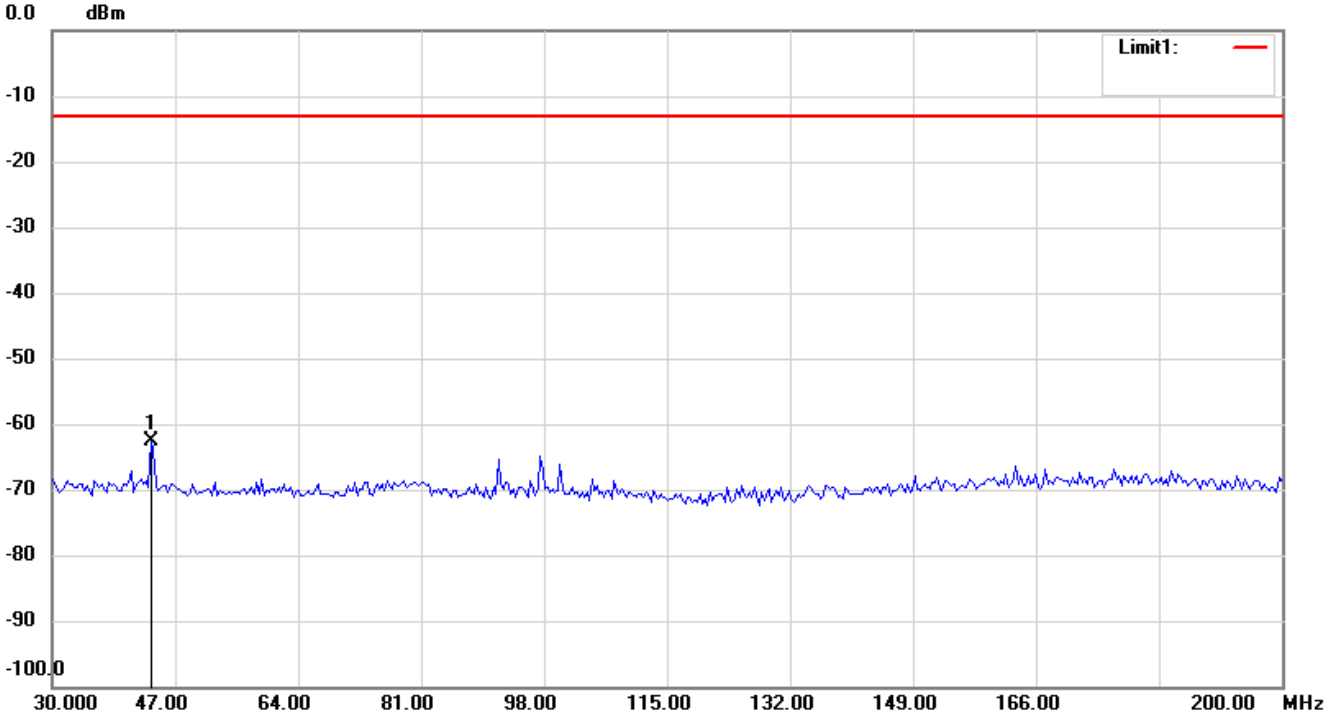
Note:

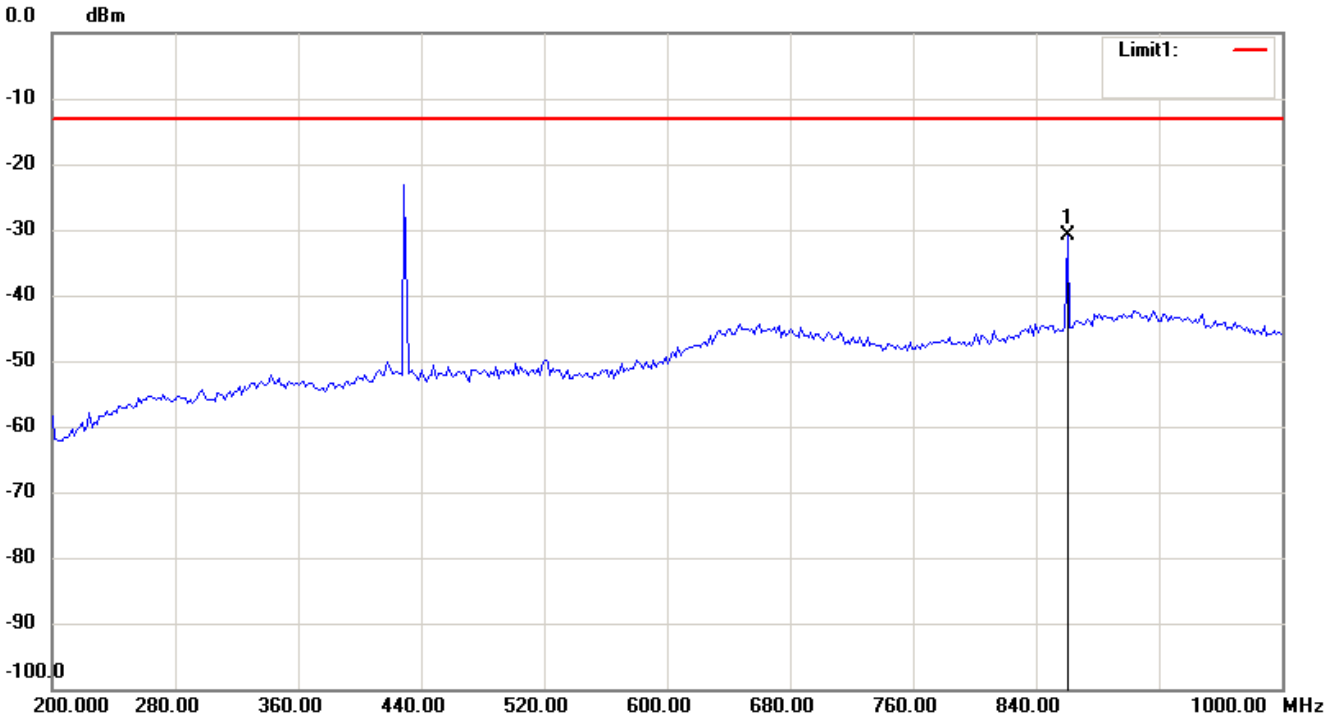
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

12.5 kHz-429.975 MHz

Antenna Polarization H

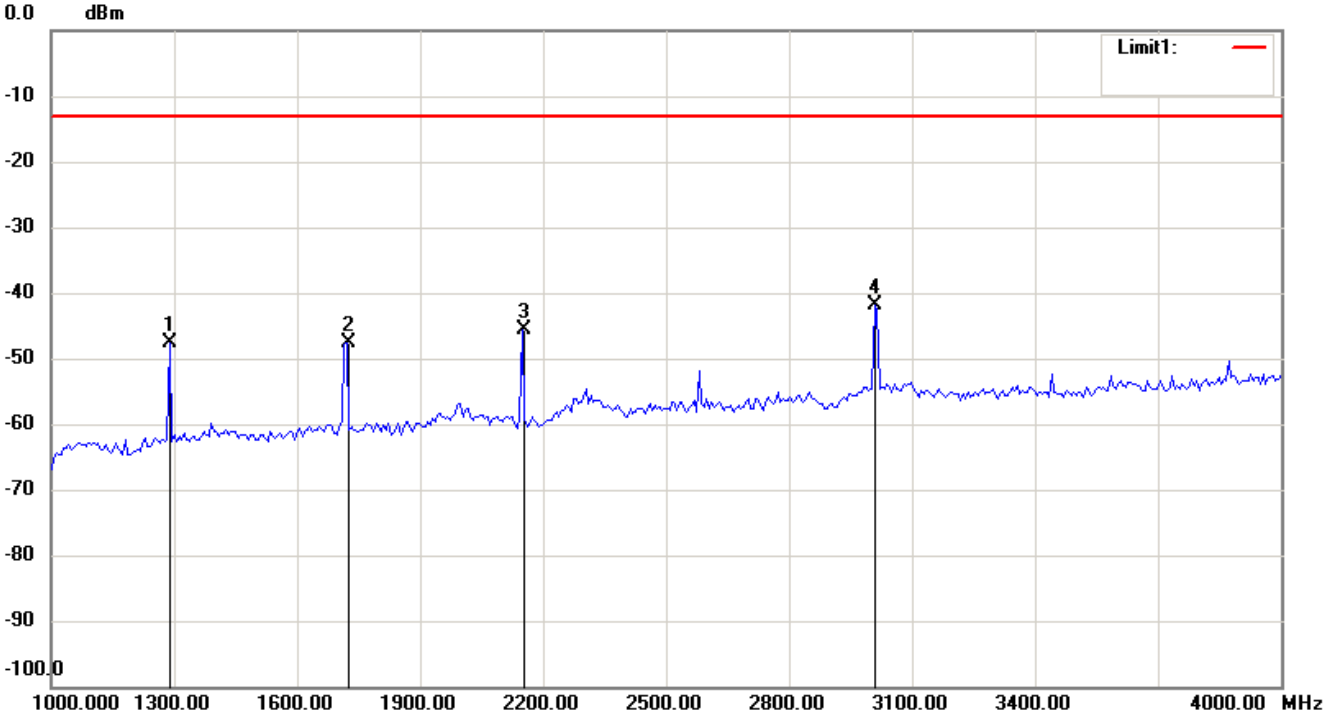


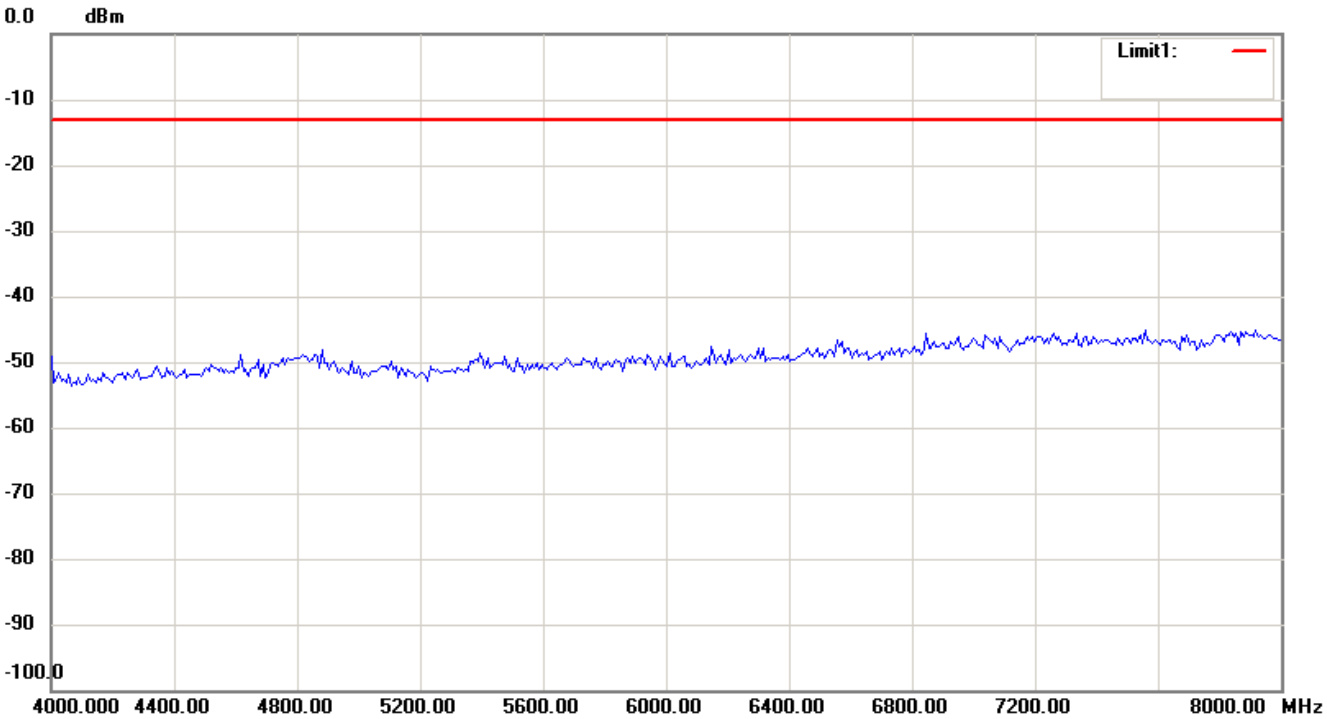


Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B



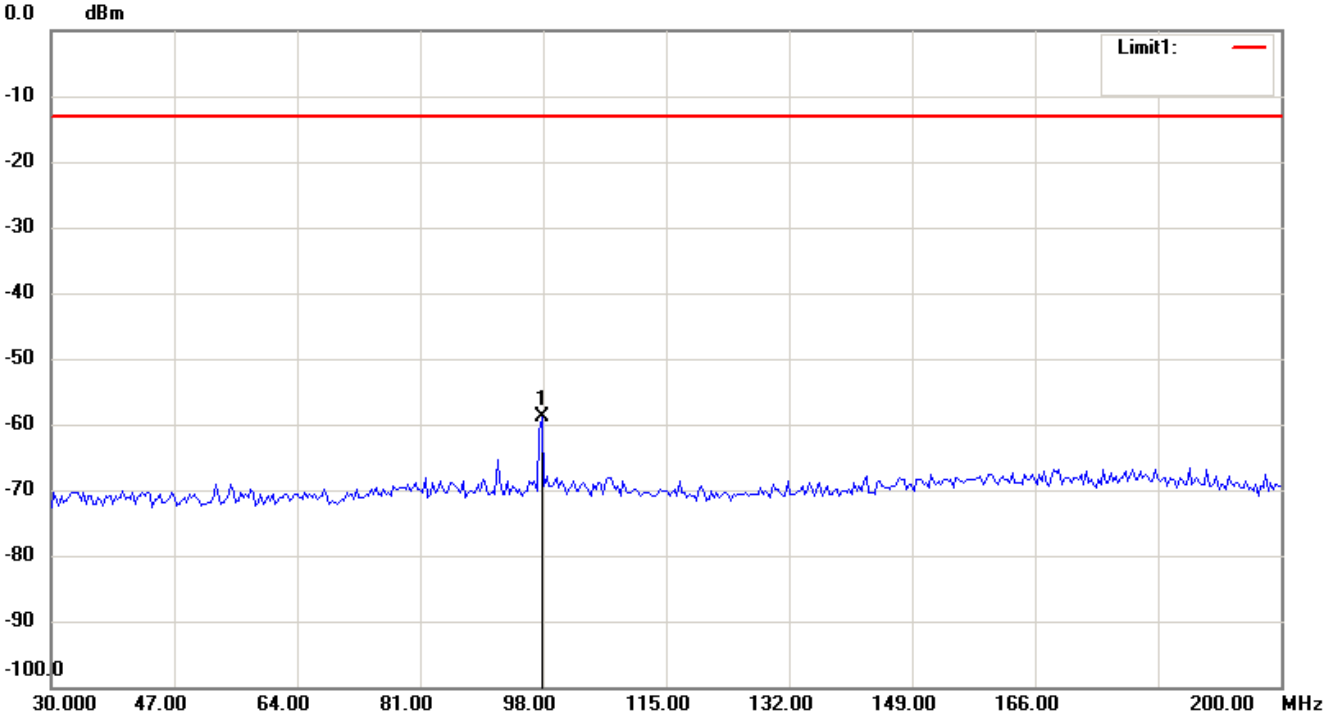


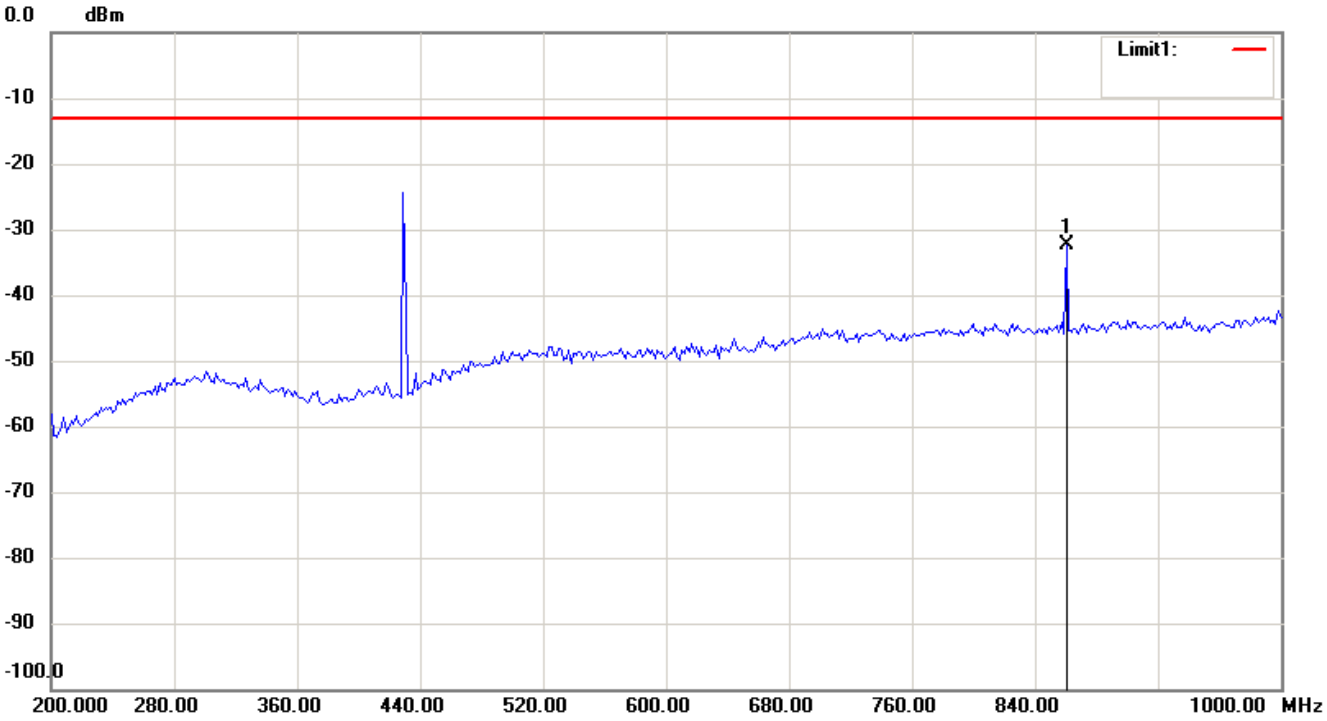
Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

Antenna Polarization V

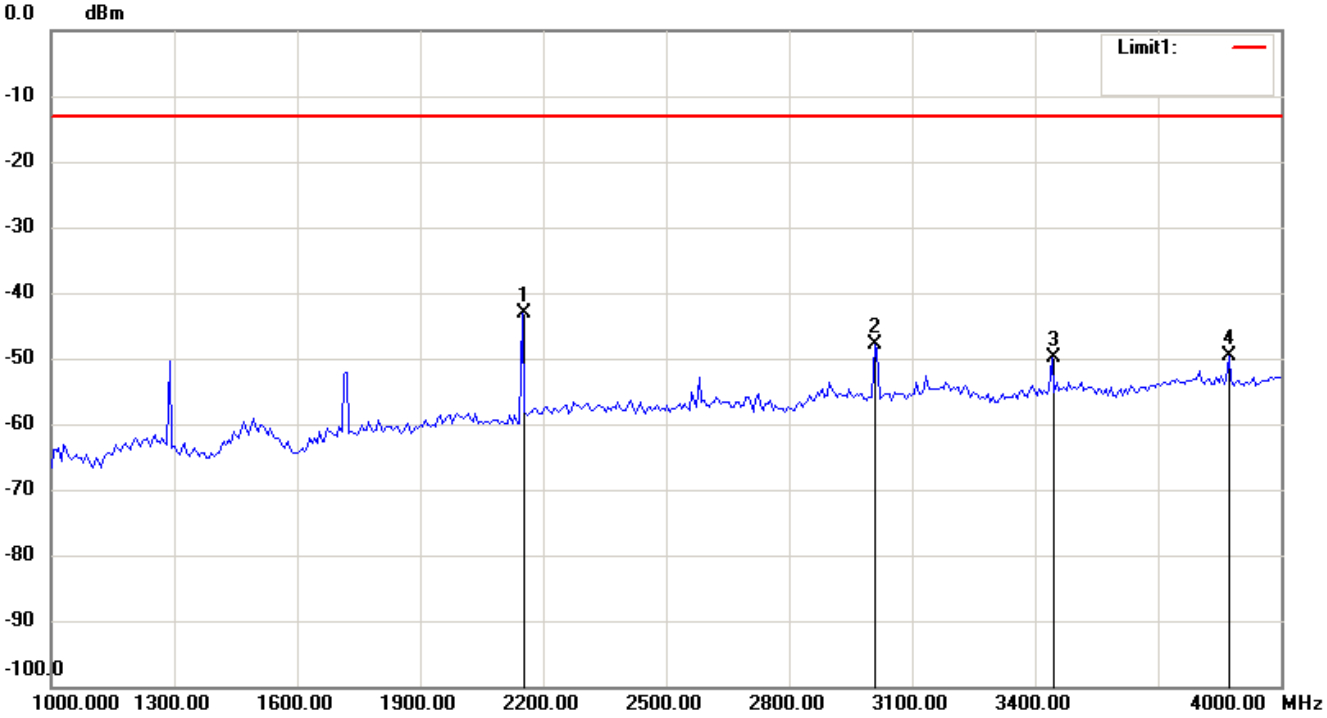


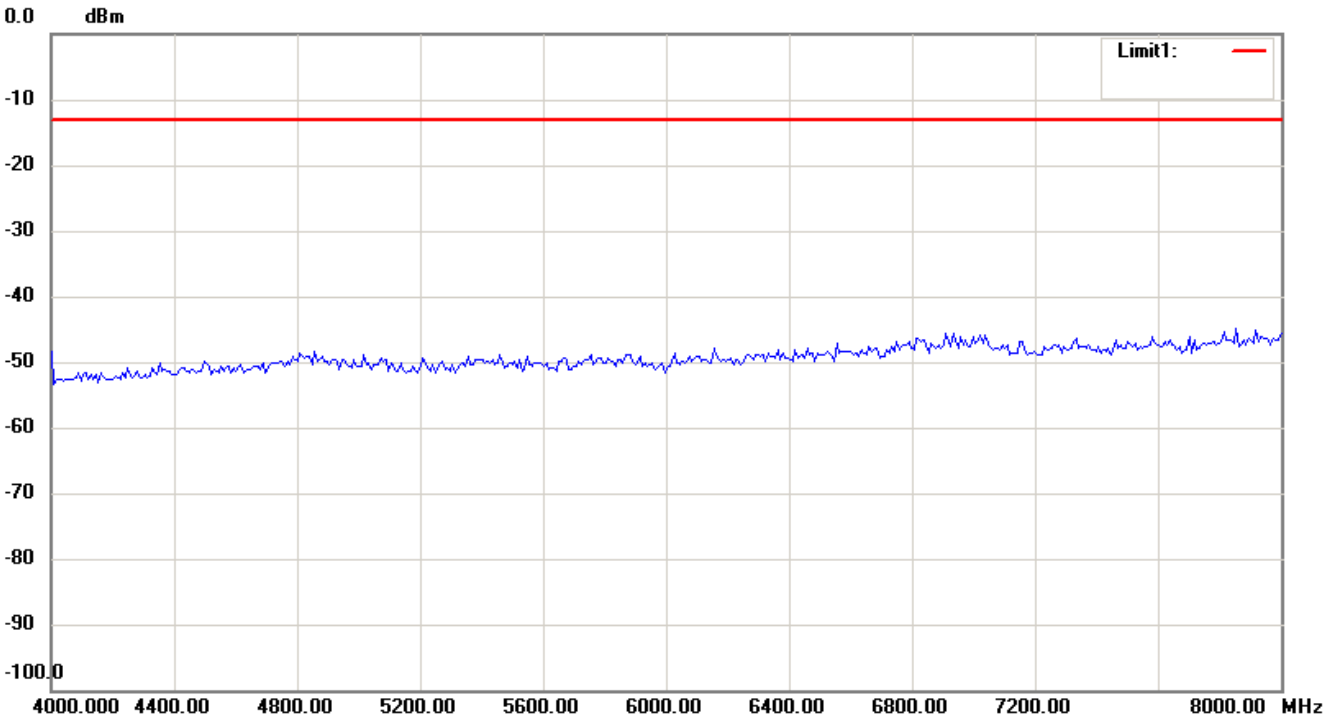


Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B





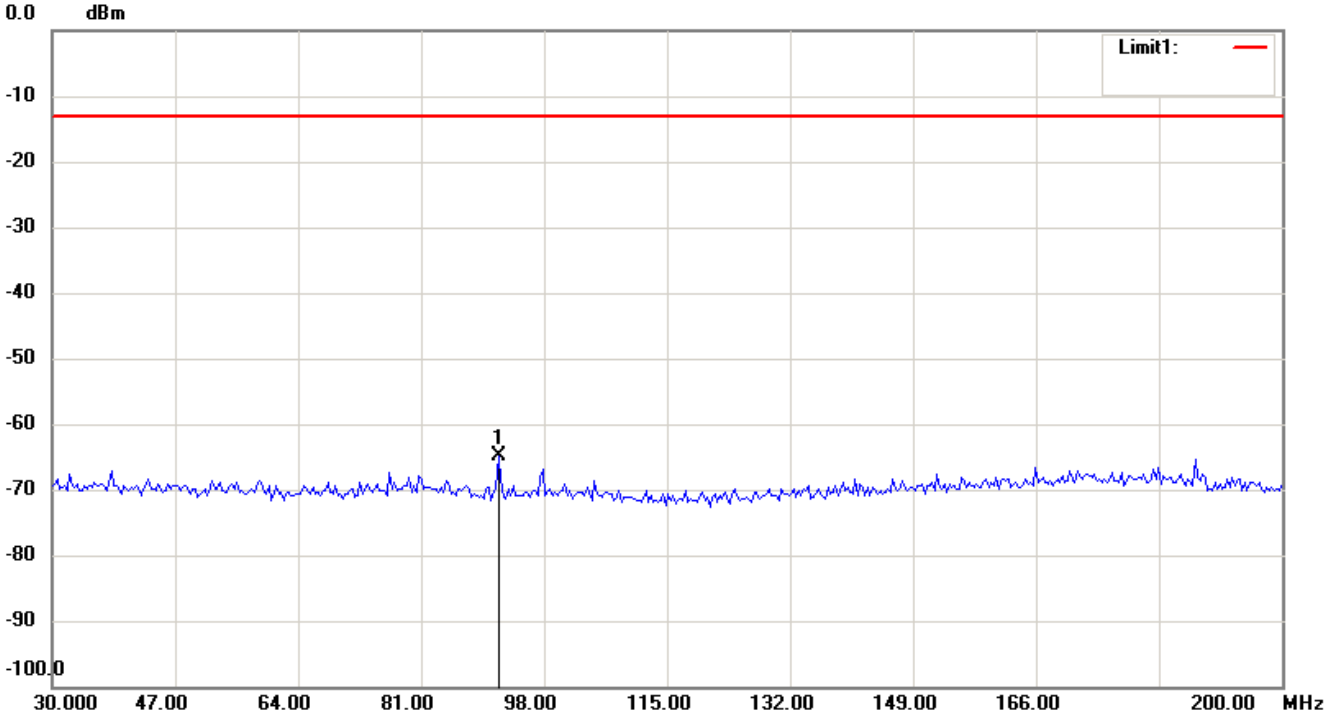
Note:

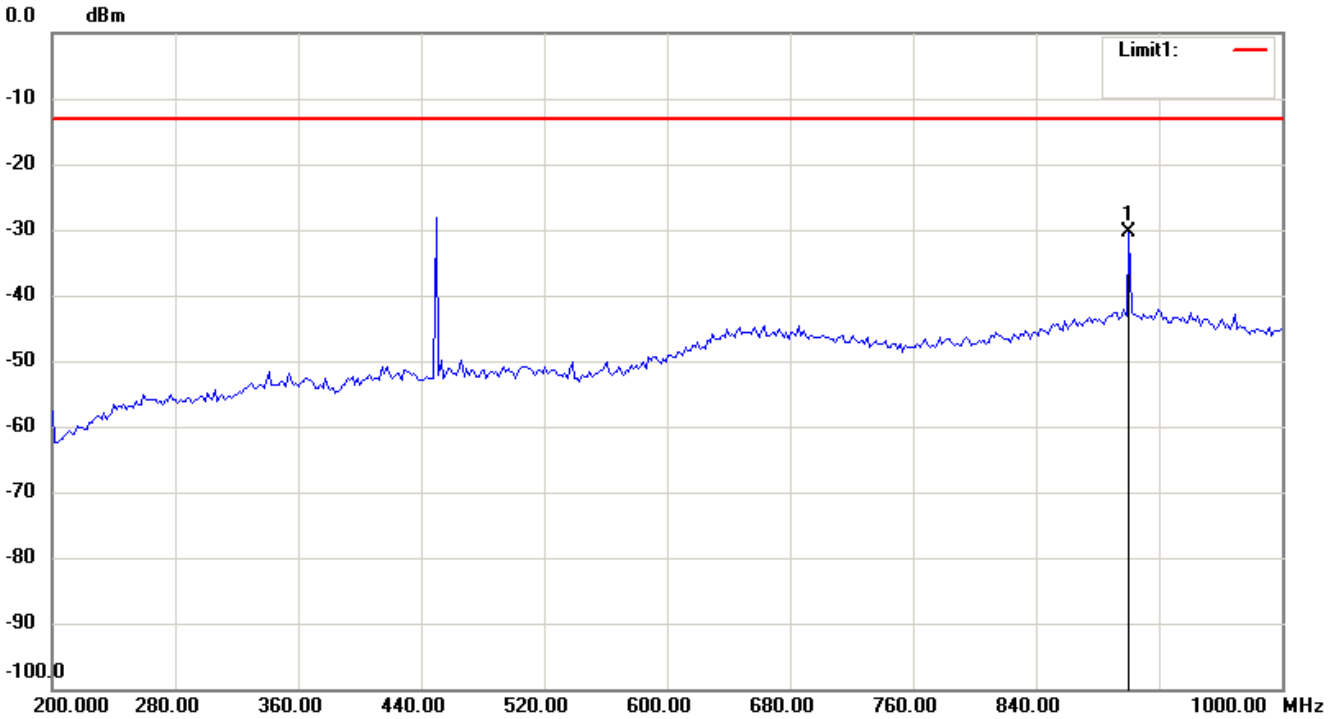
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

12.5 kHz-450.025MHz

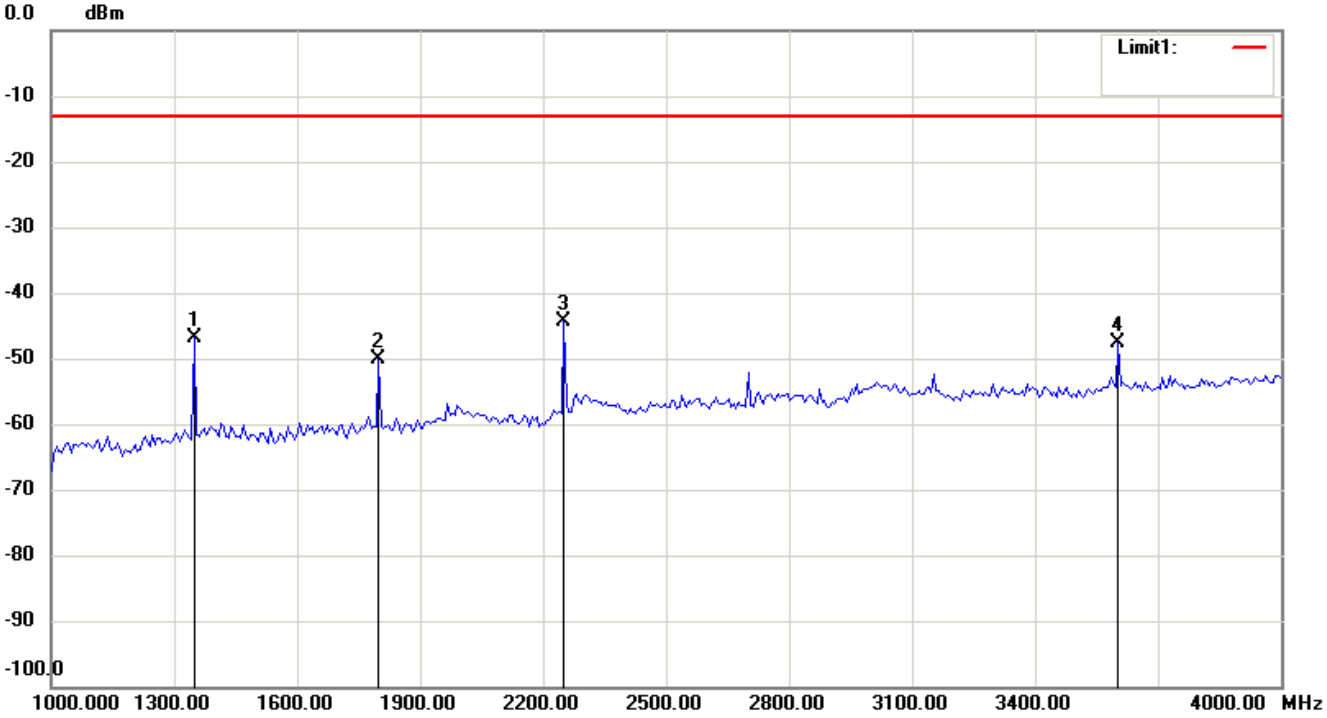
Antenna Polarization H

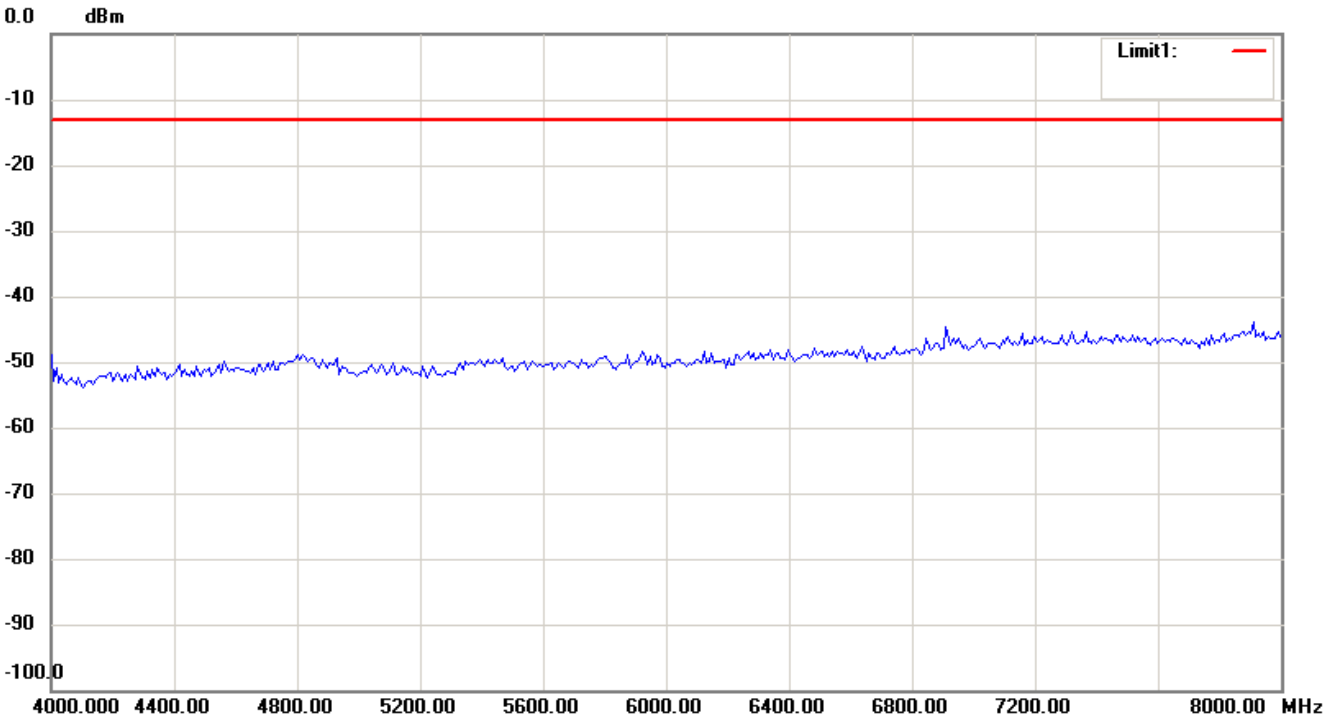




Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**



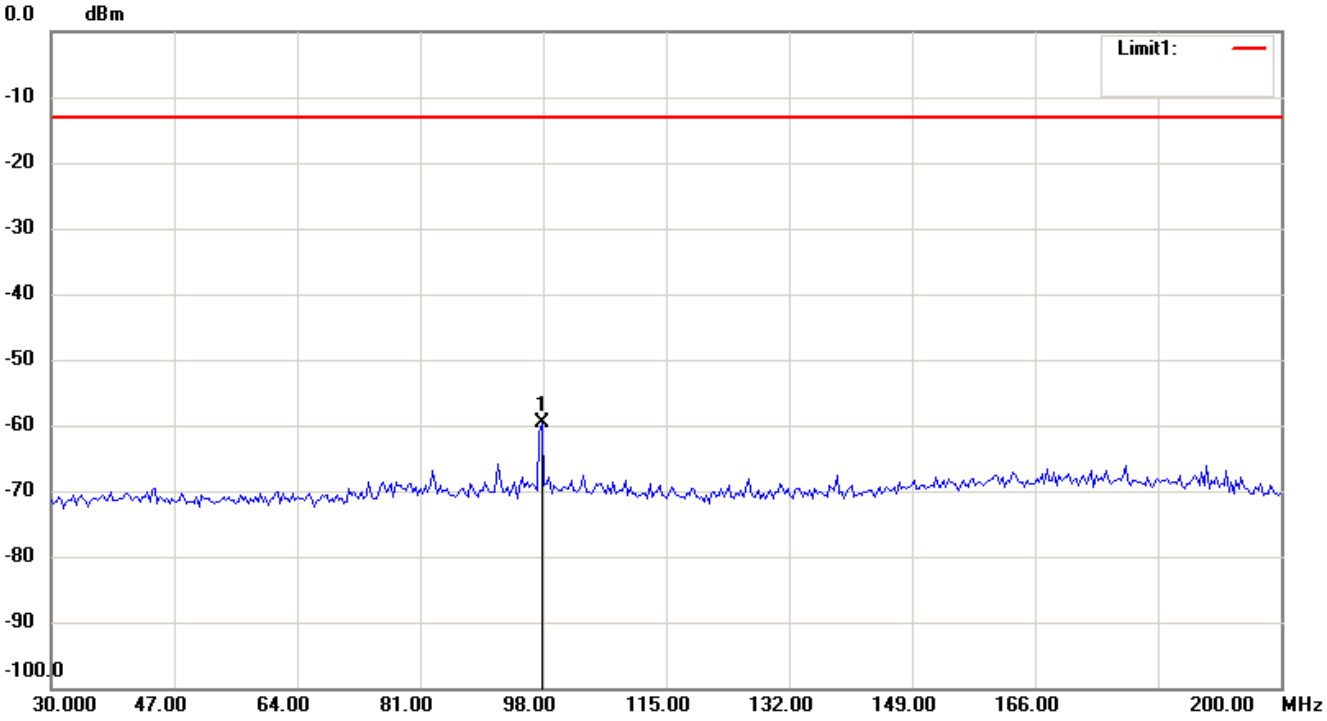


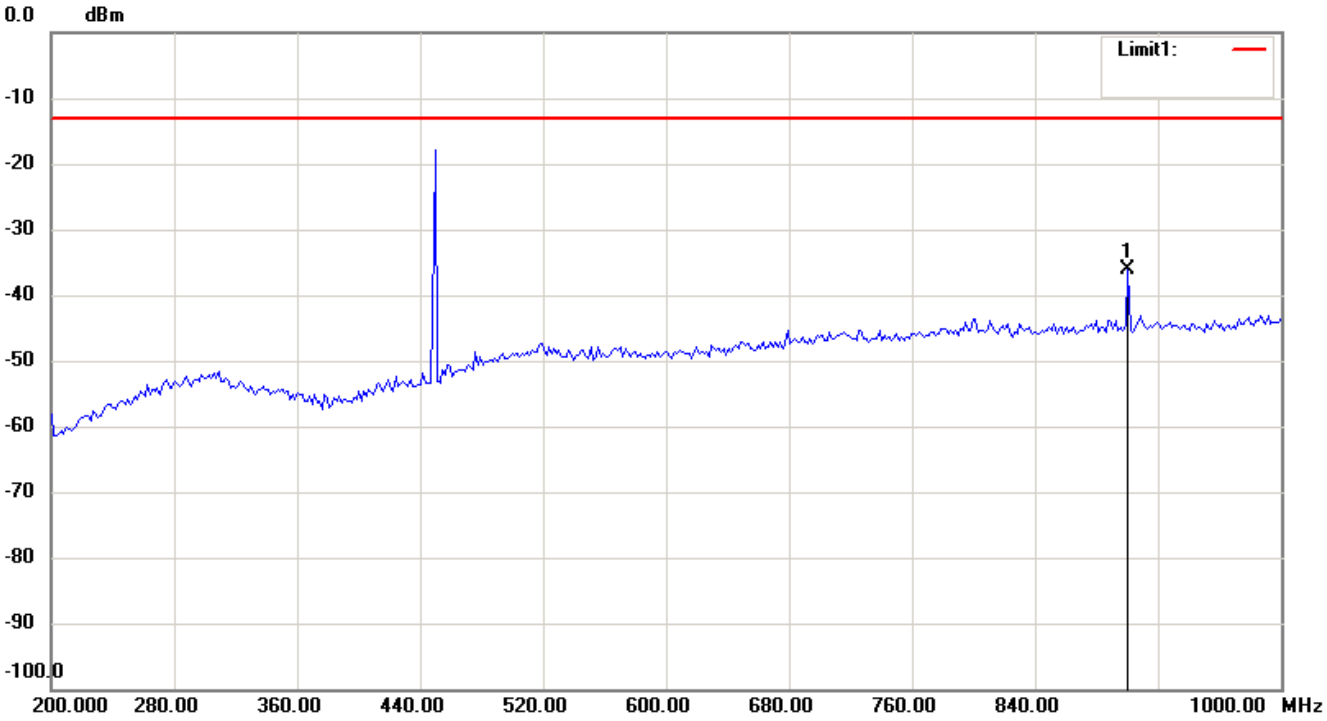
Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

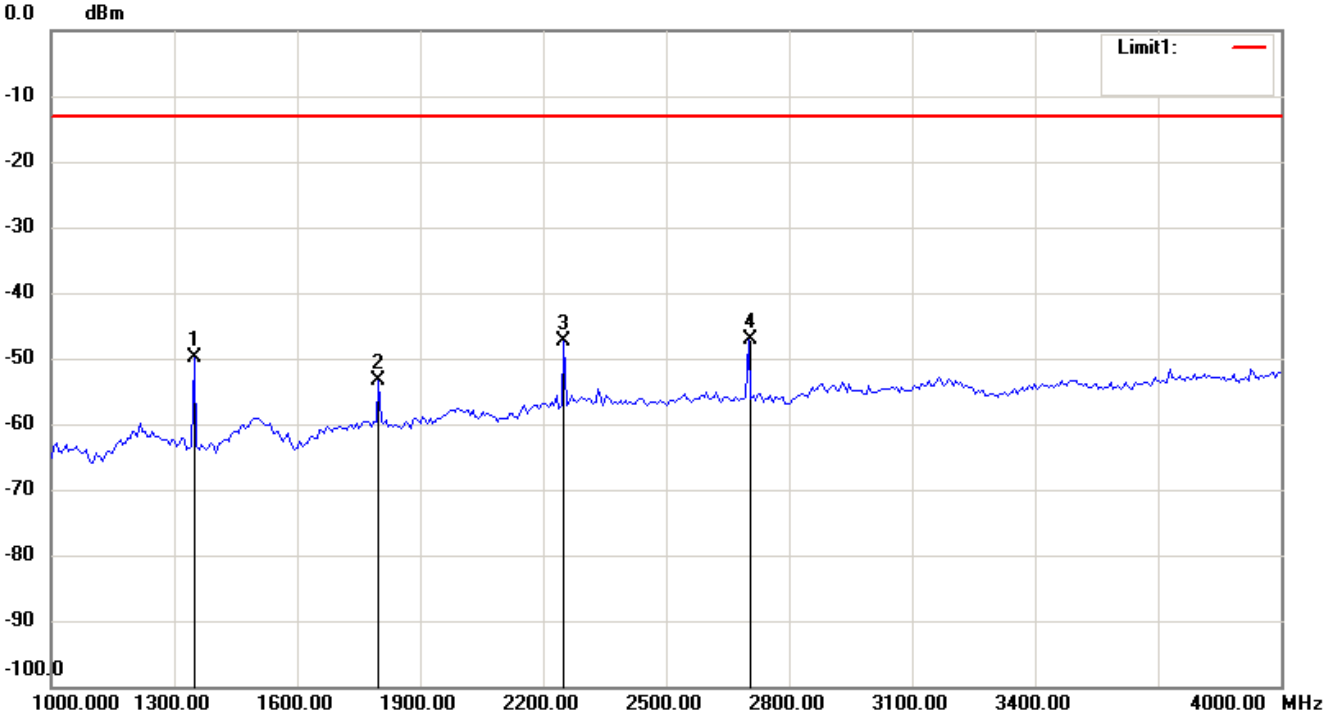
Antenna Polarization V

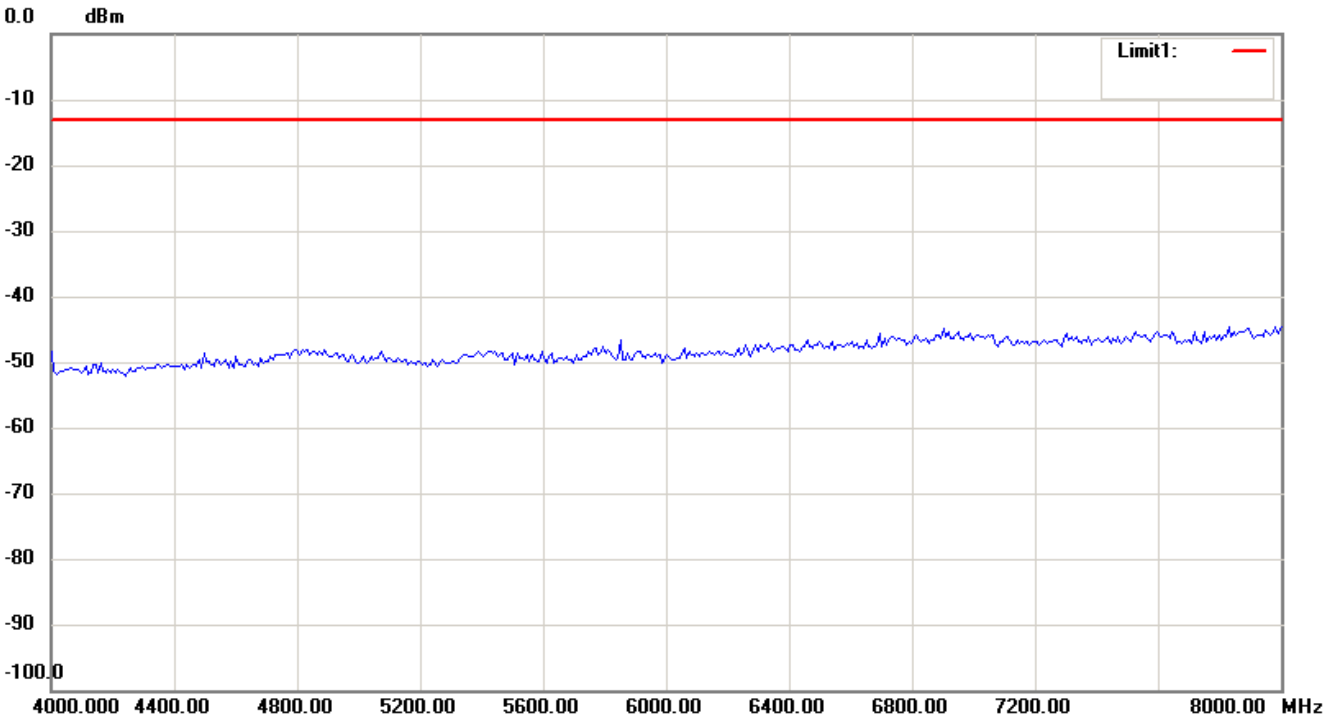




Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**





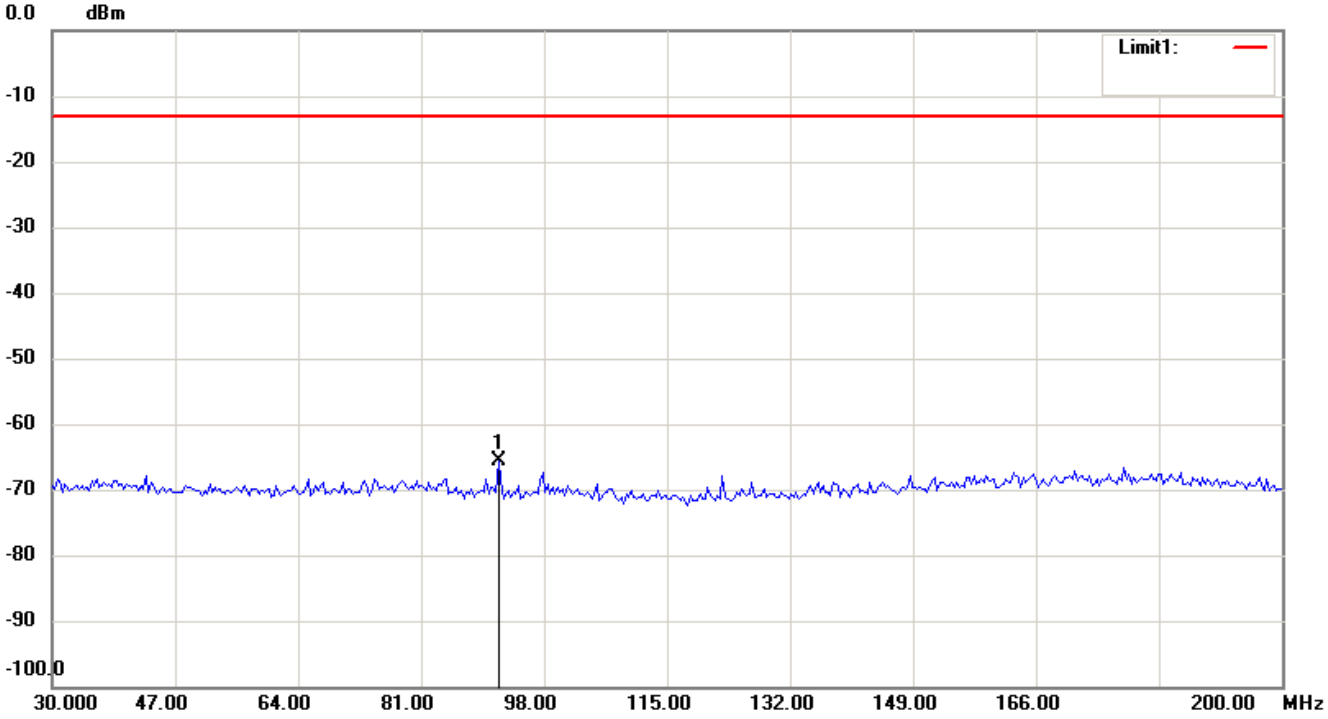
Note:

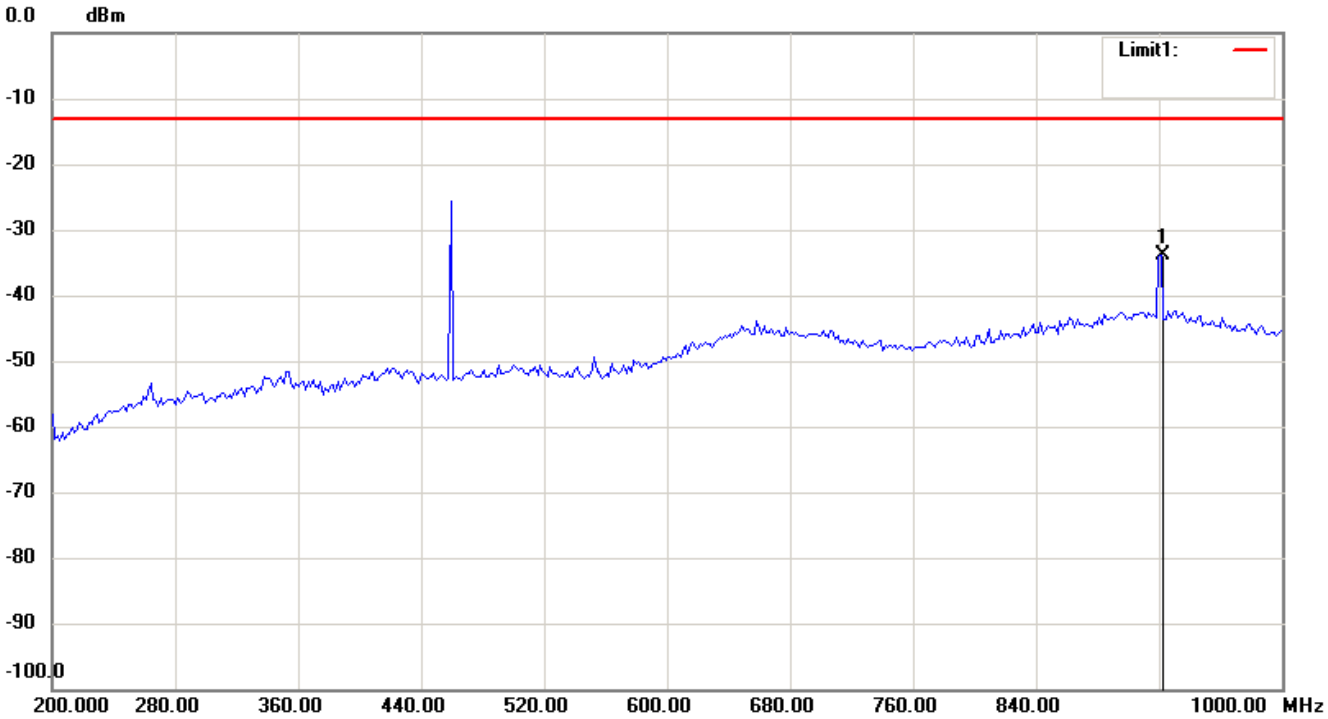
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

12.5 kHz-460 MHz

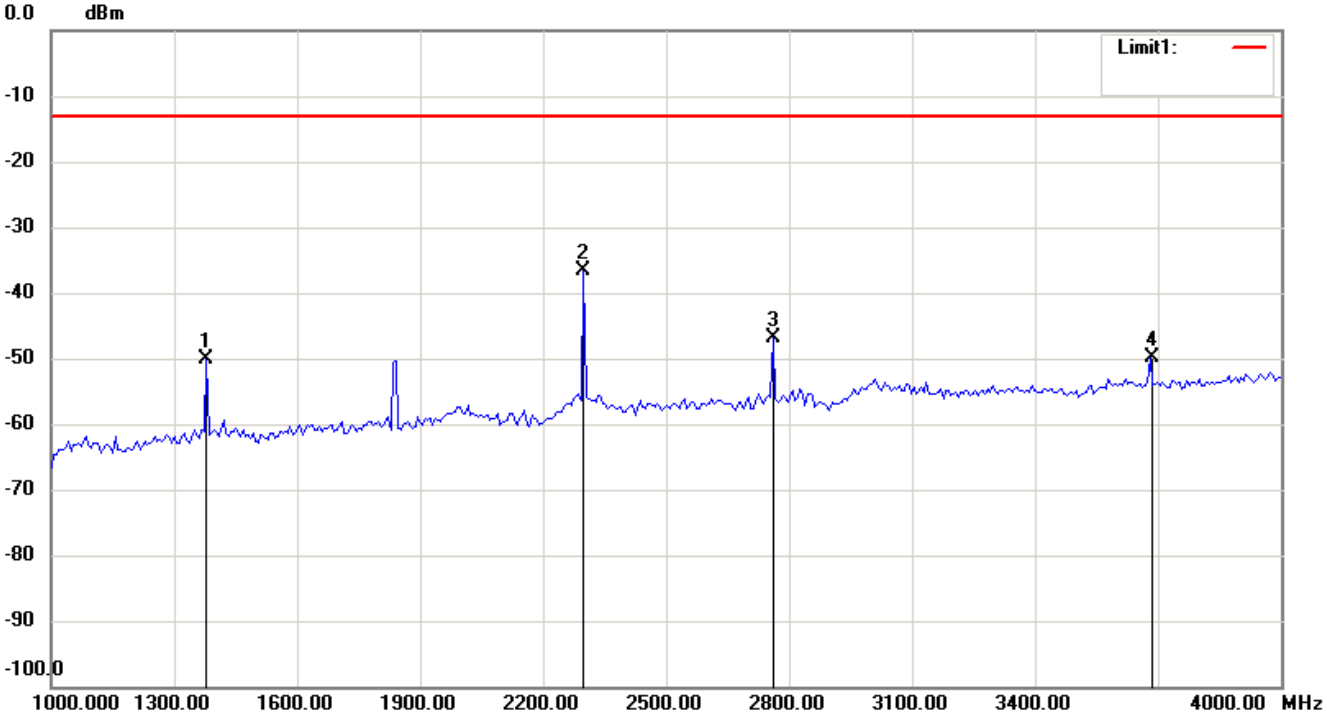
Antenna Polarization H

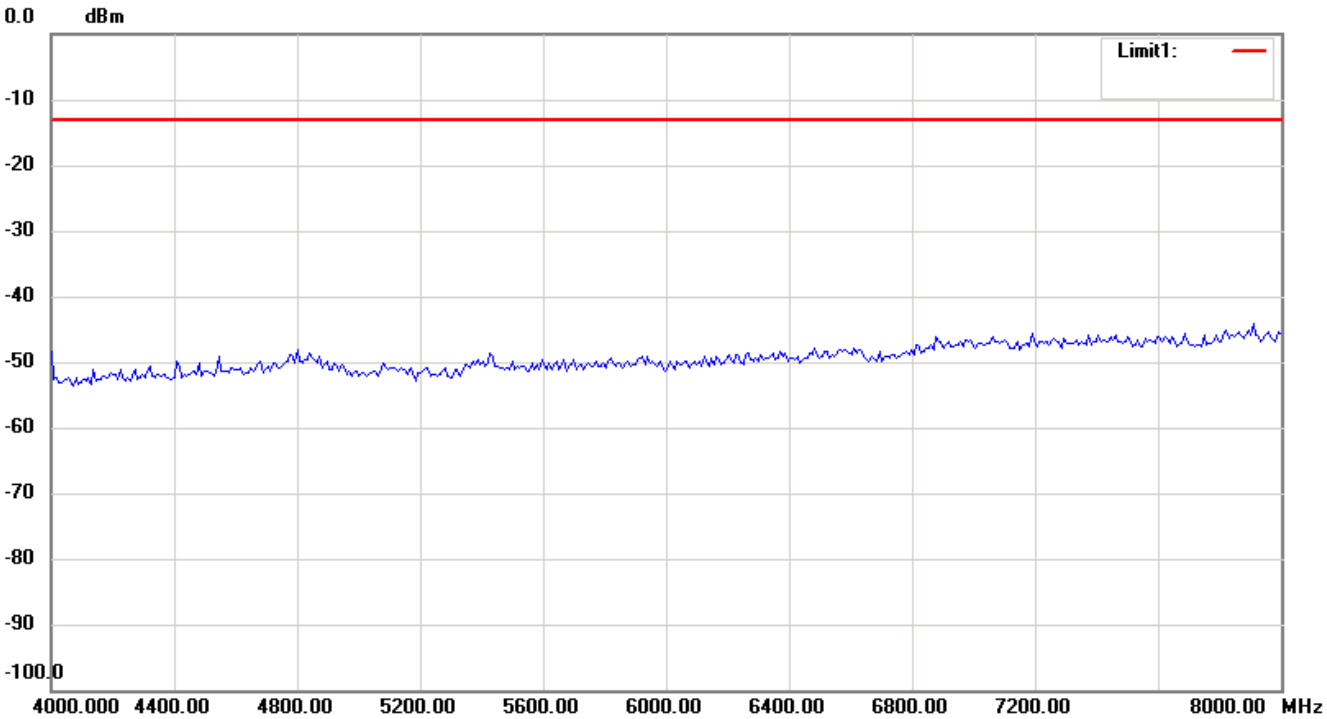




Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**



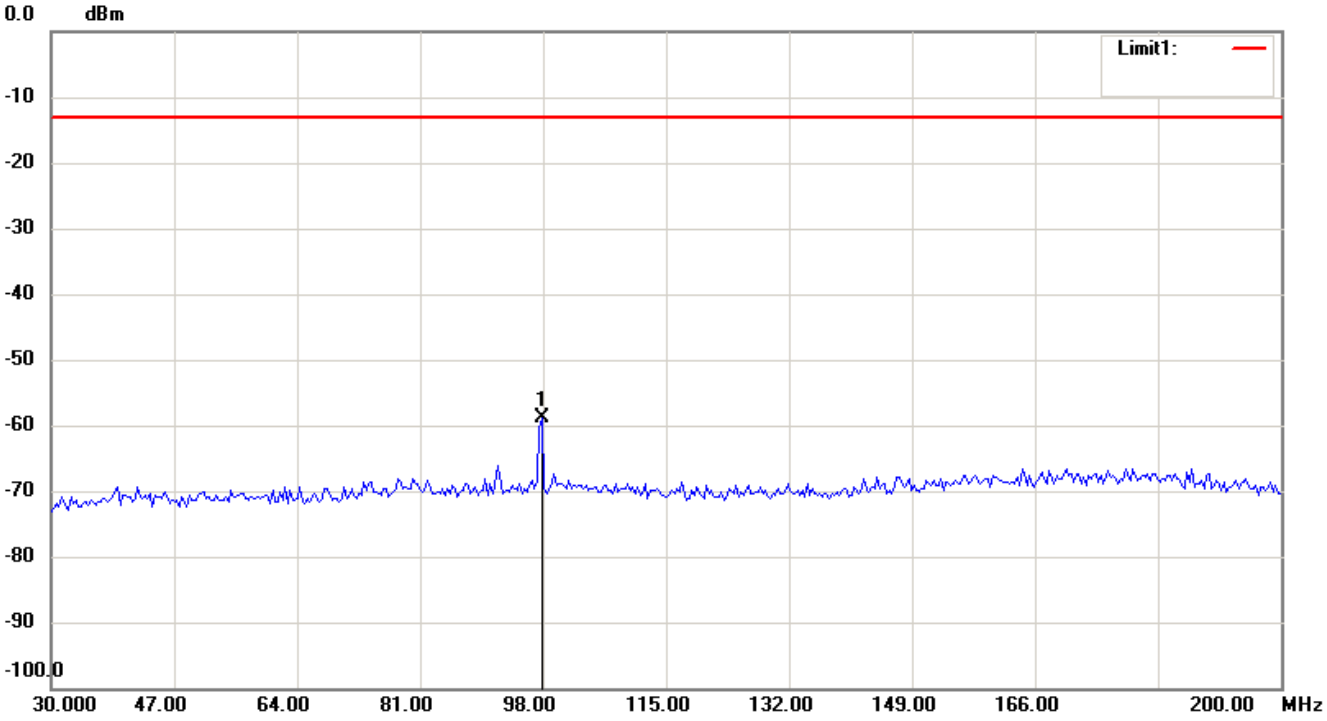


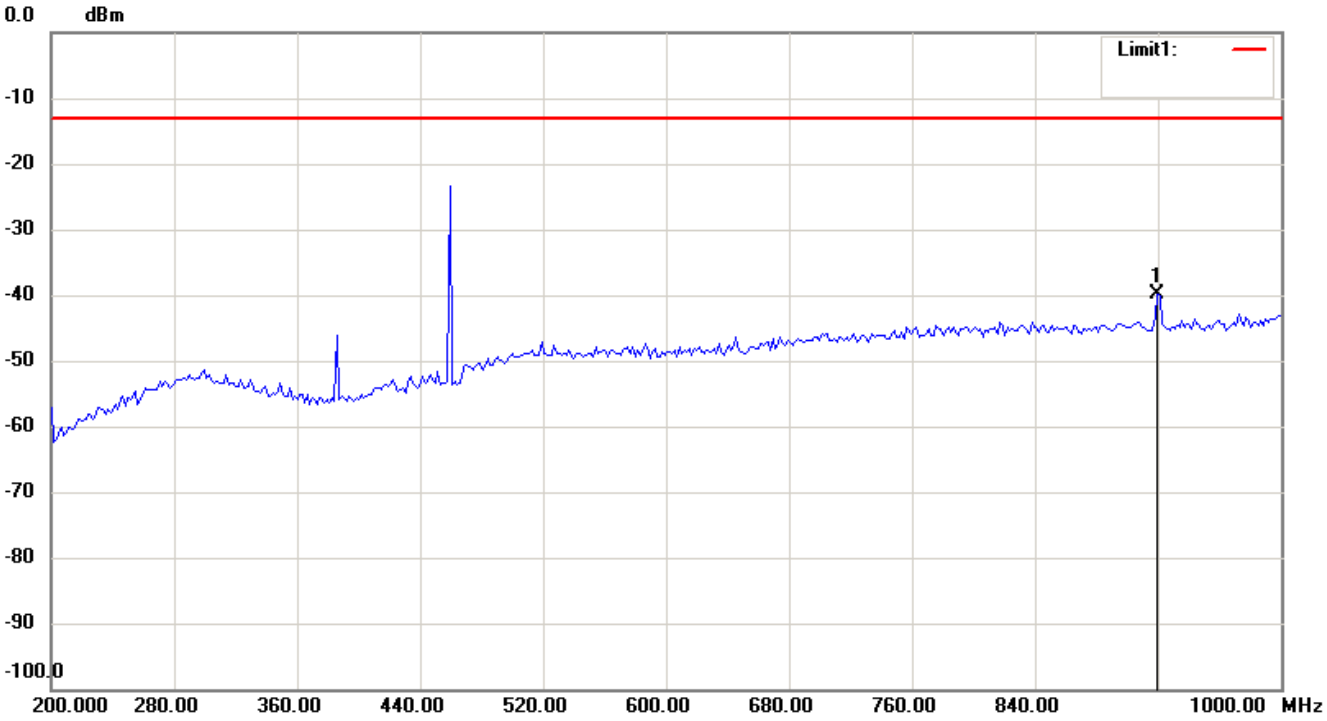
Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

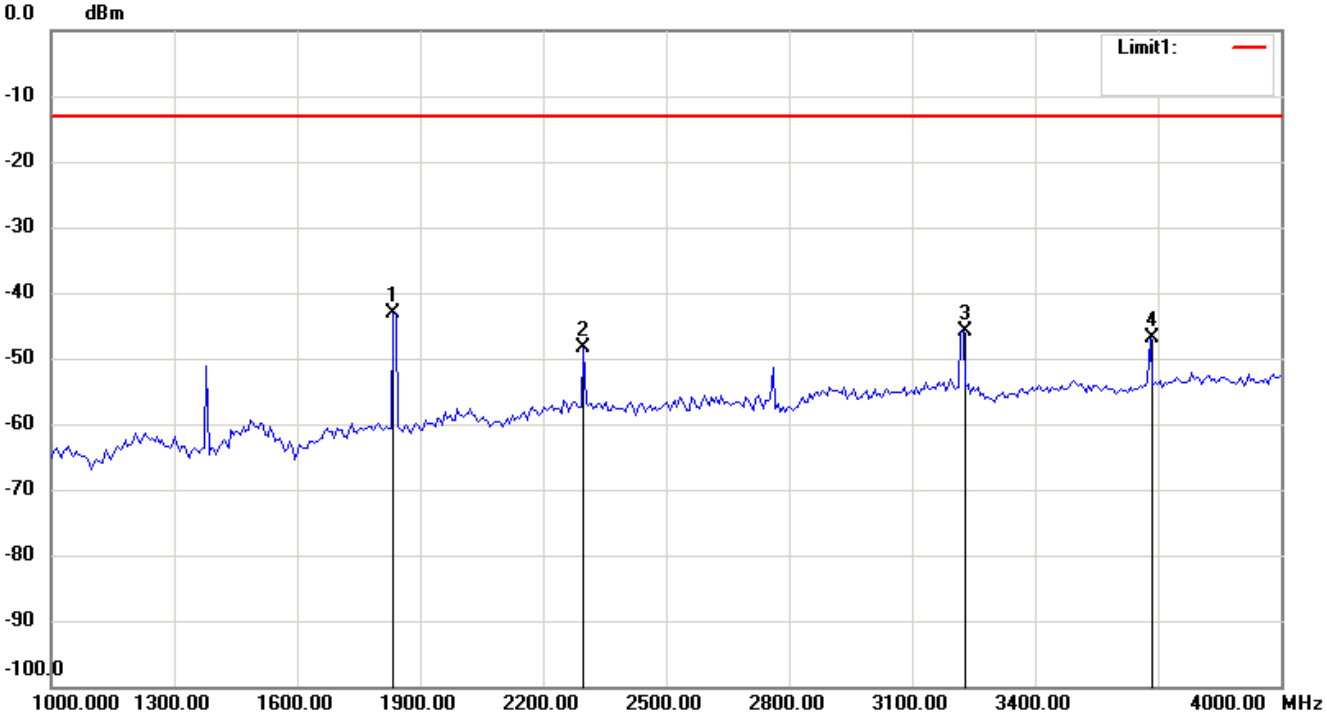
Antenna Polarization V

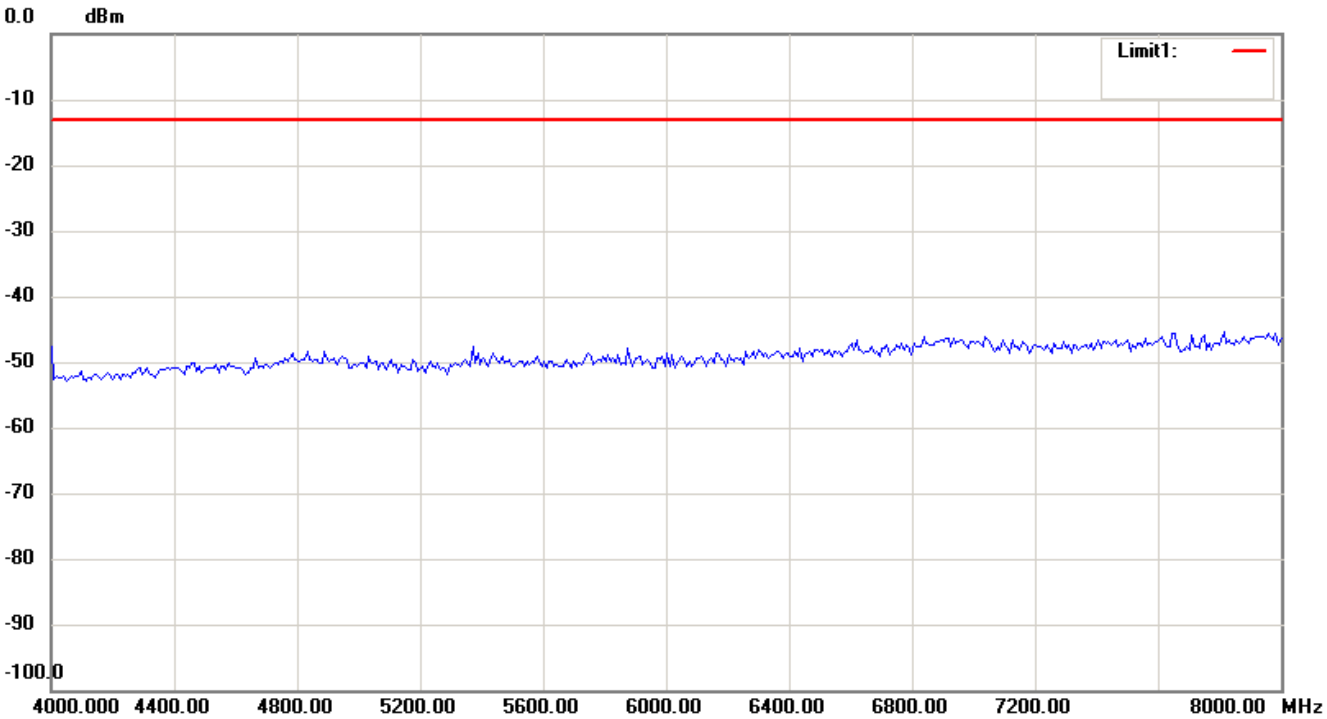




Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**





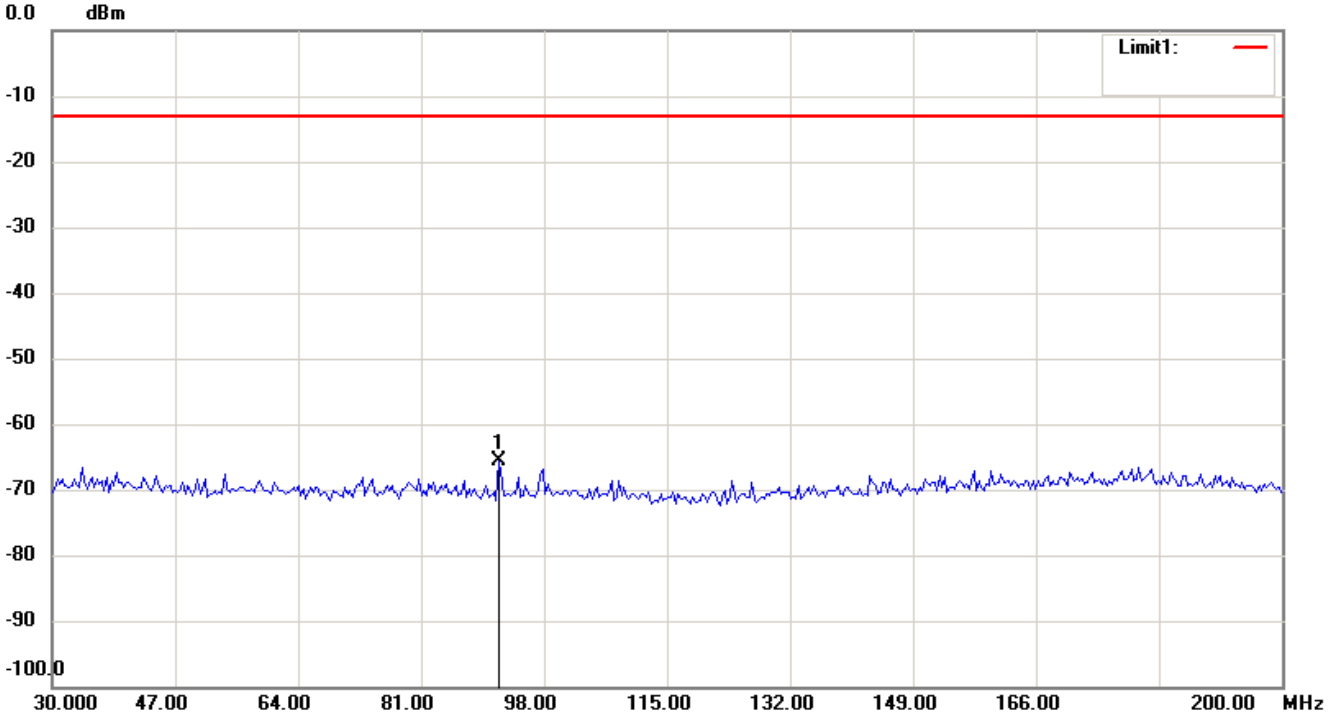
Note:

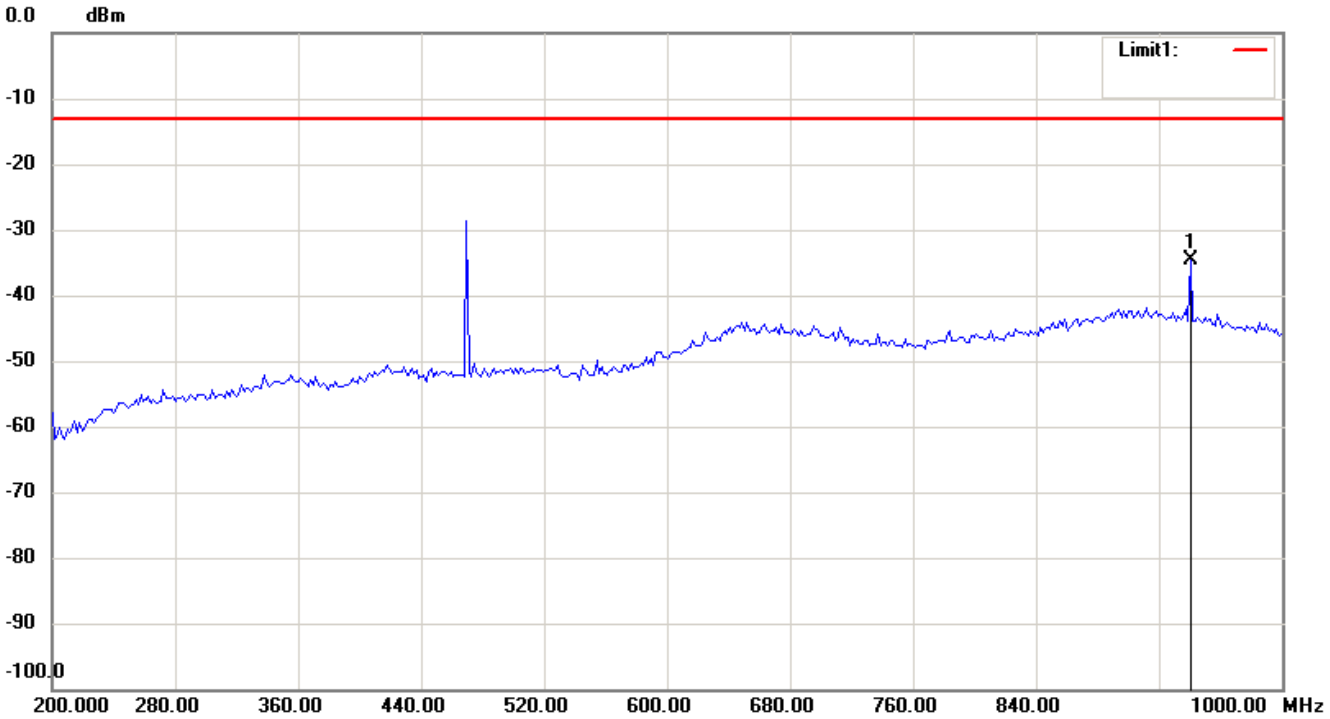
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

12.5 kHz-469.975 MHz

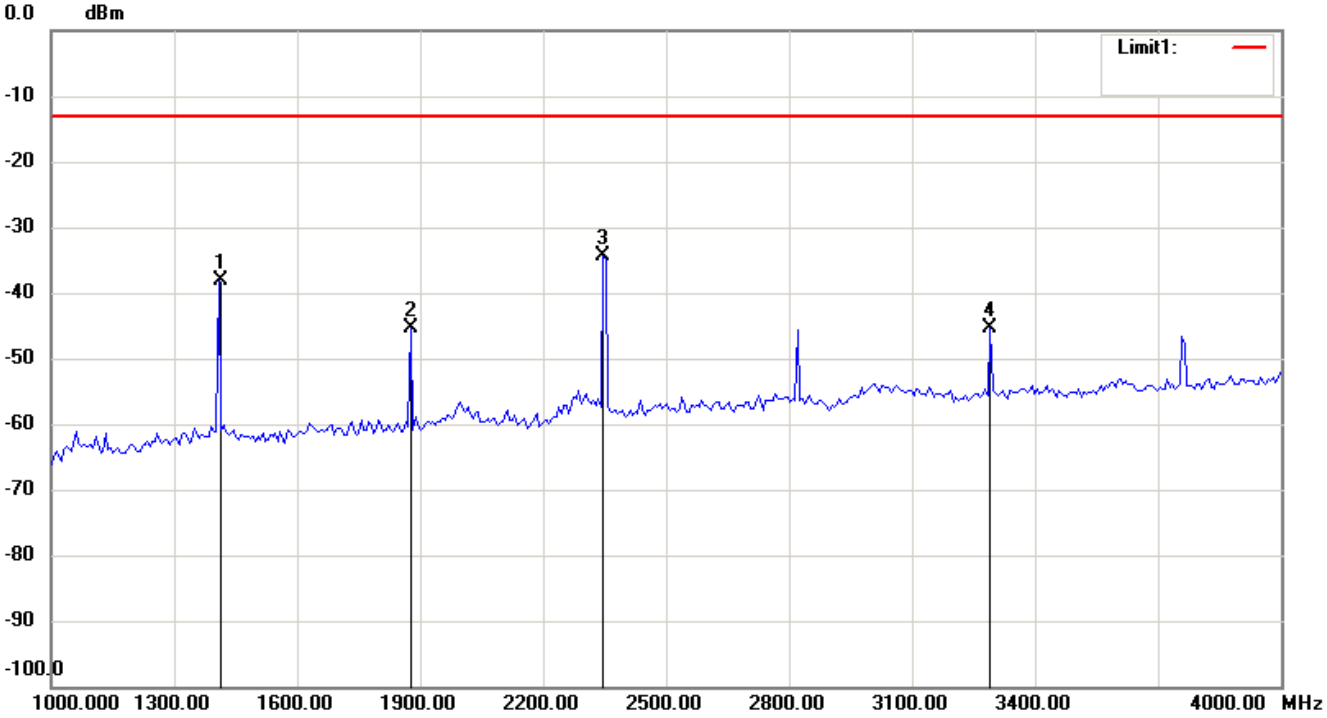
Antenna Polarization H

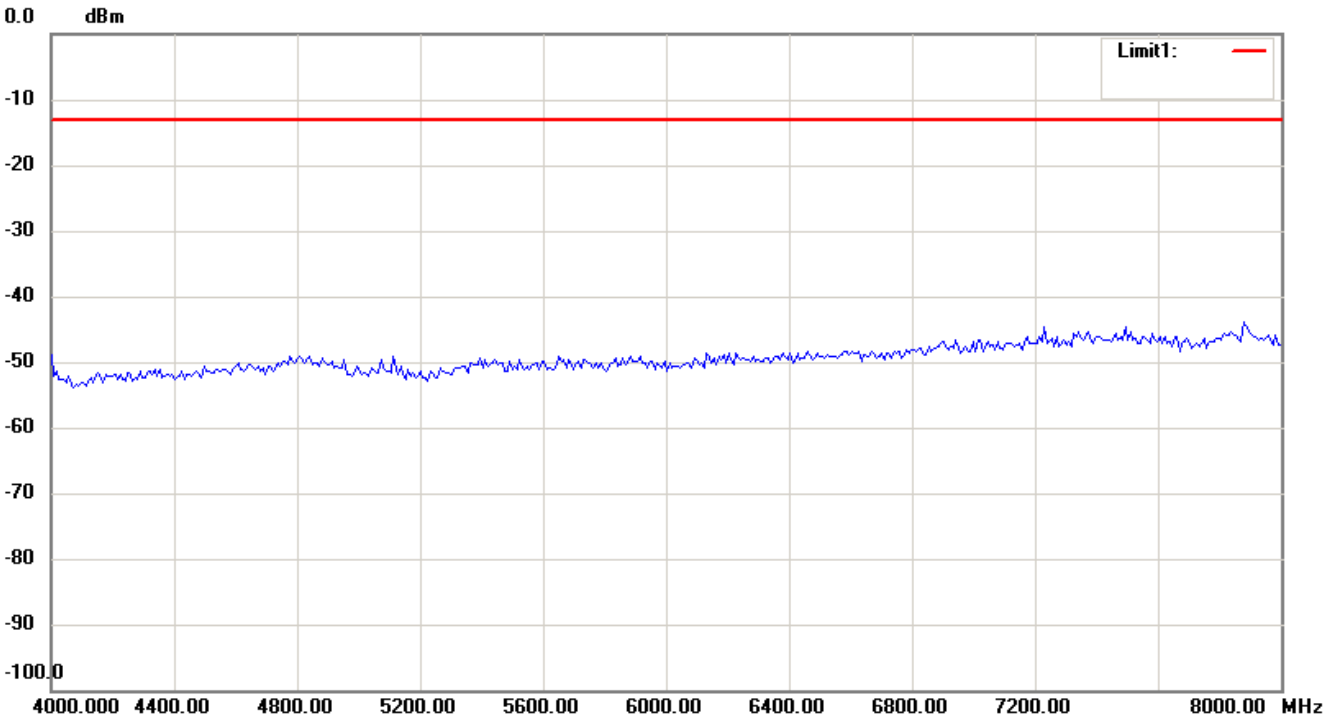




Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**



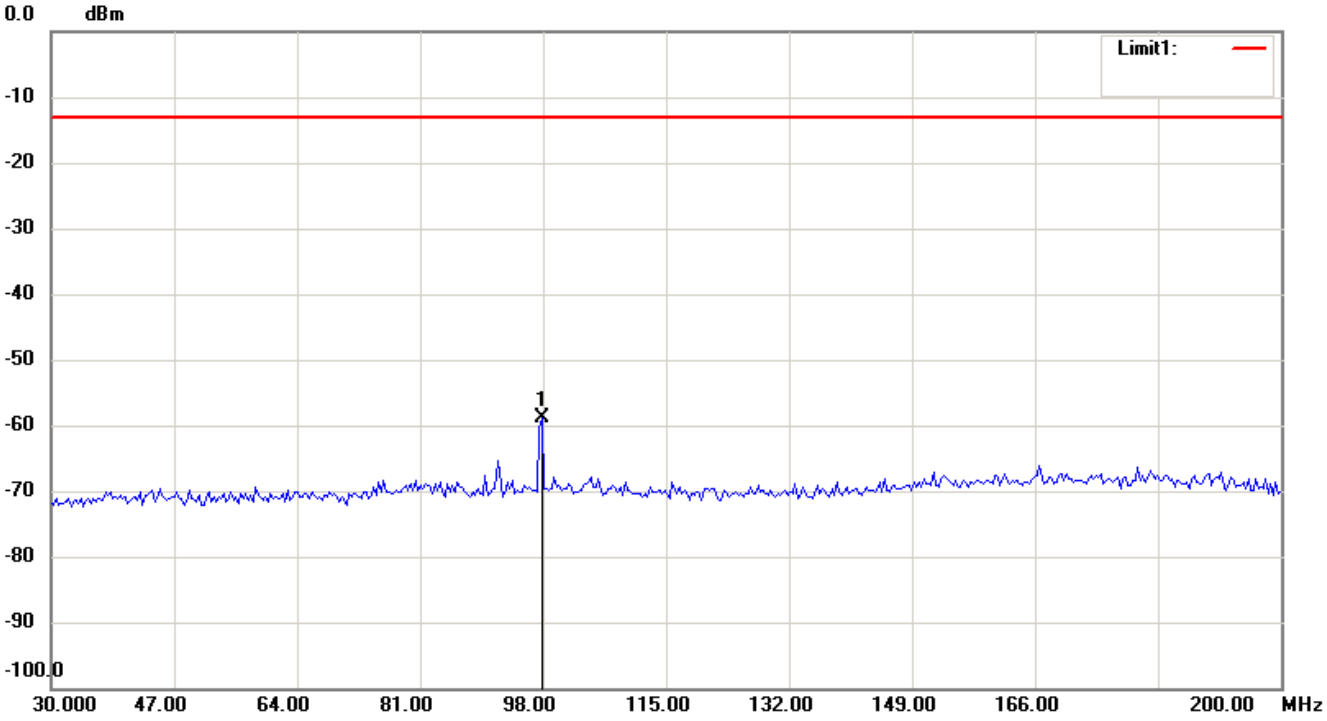


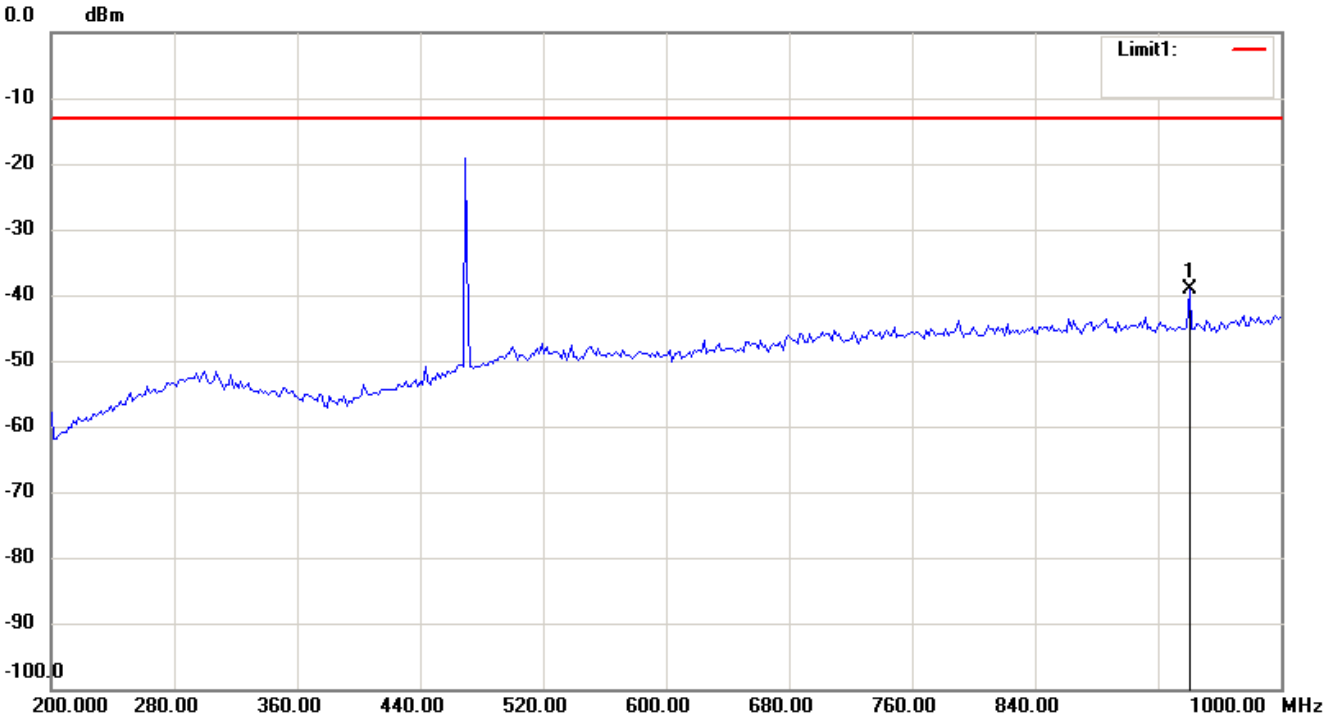
Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

Antenna Polarization V

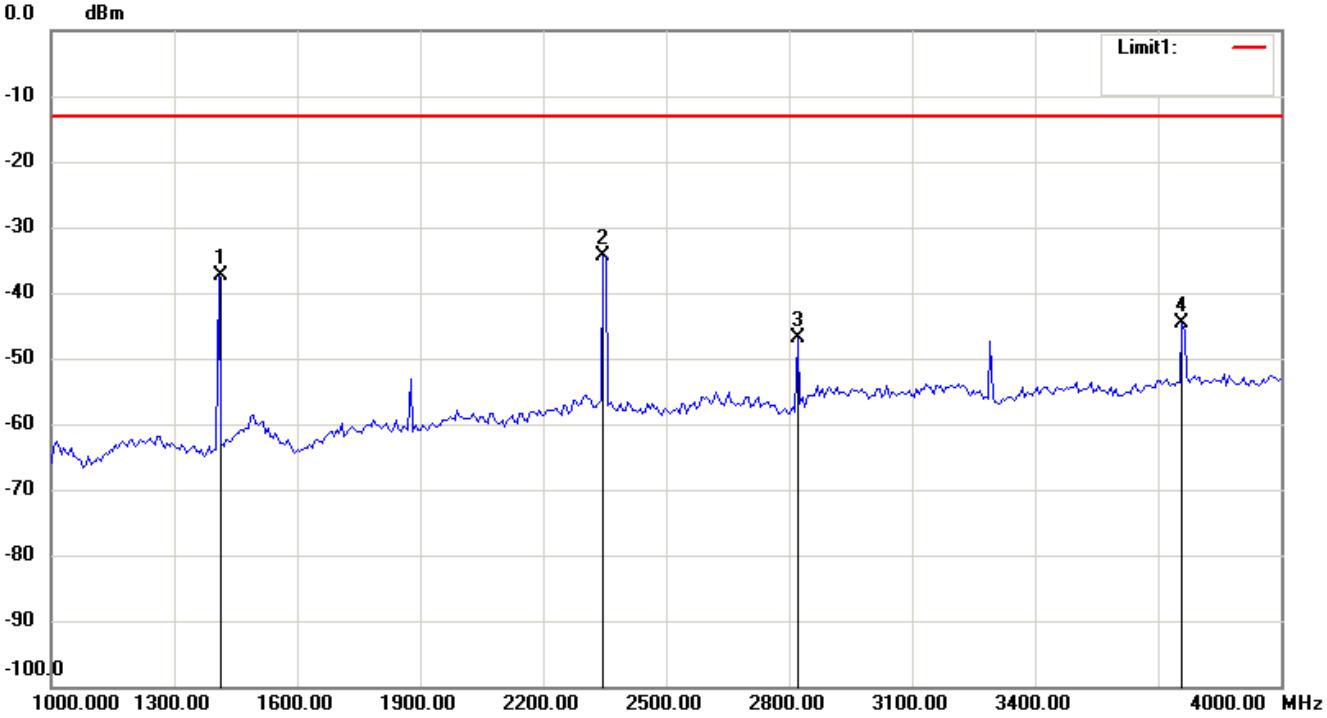


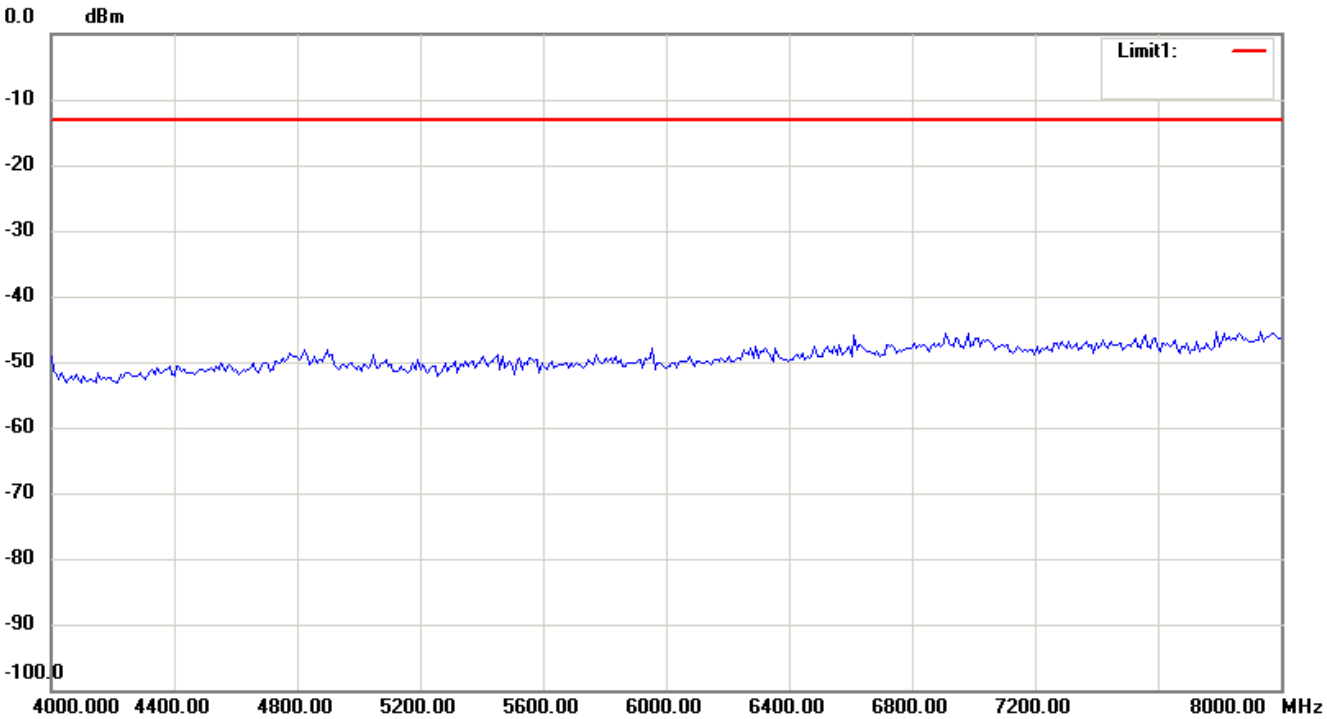


Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B



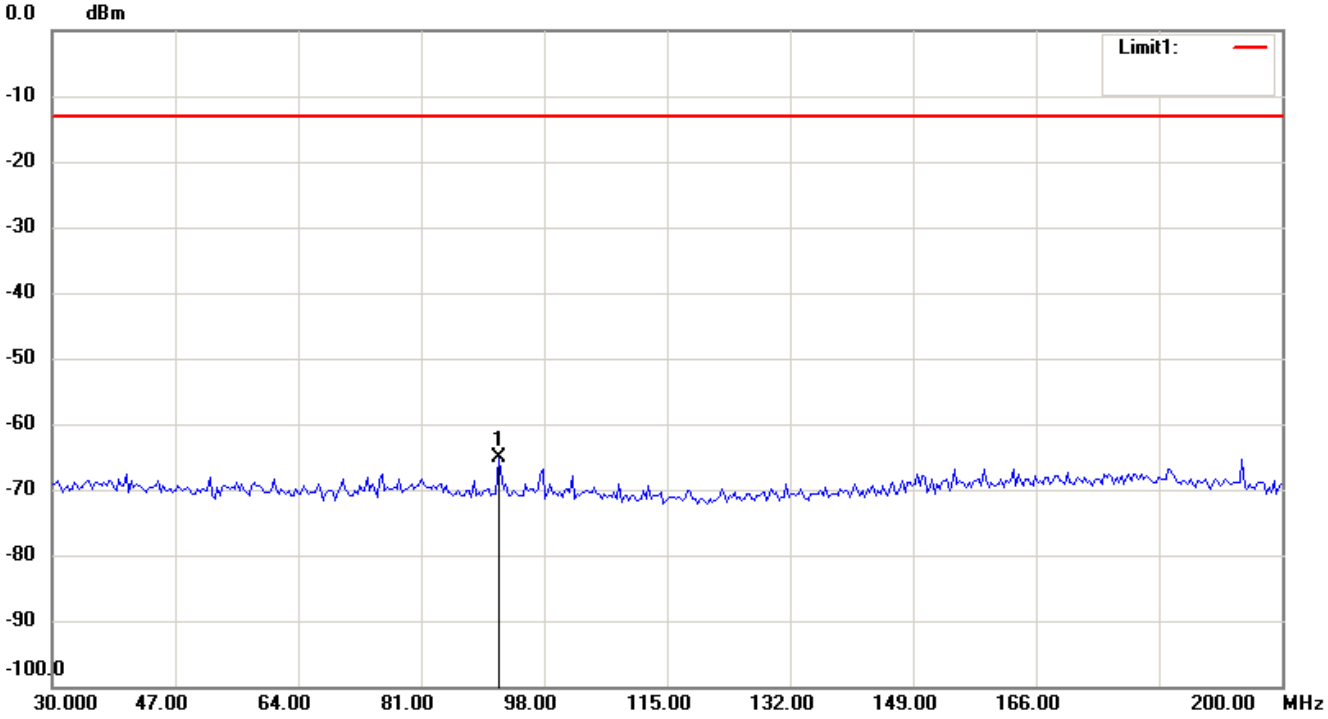


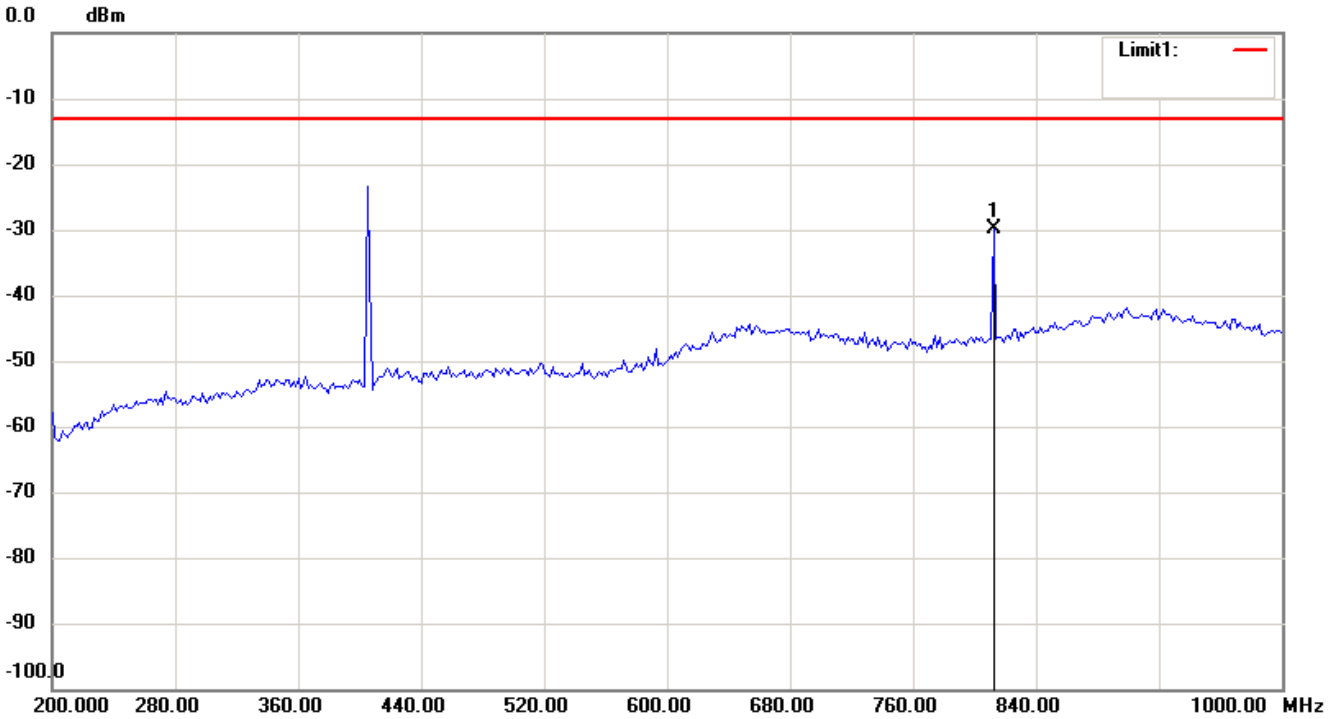
Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

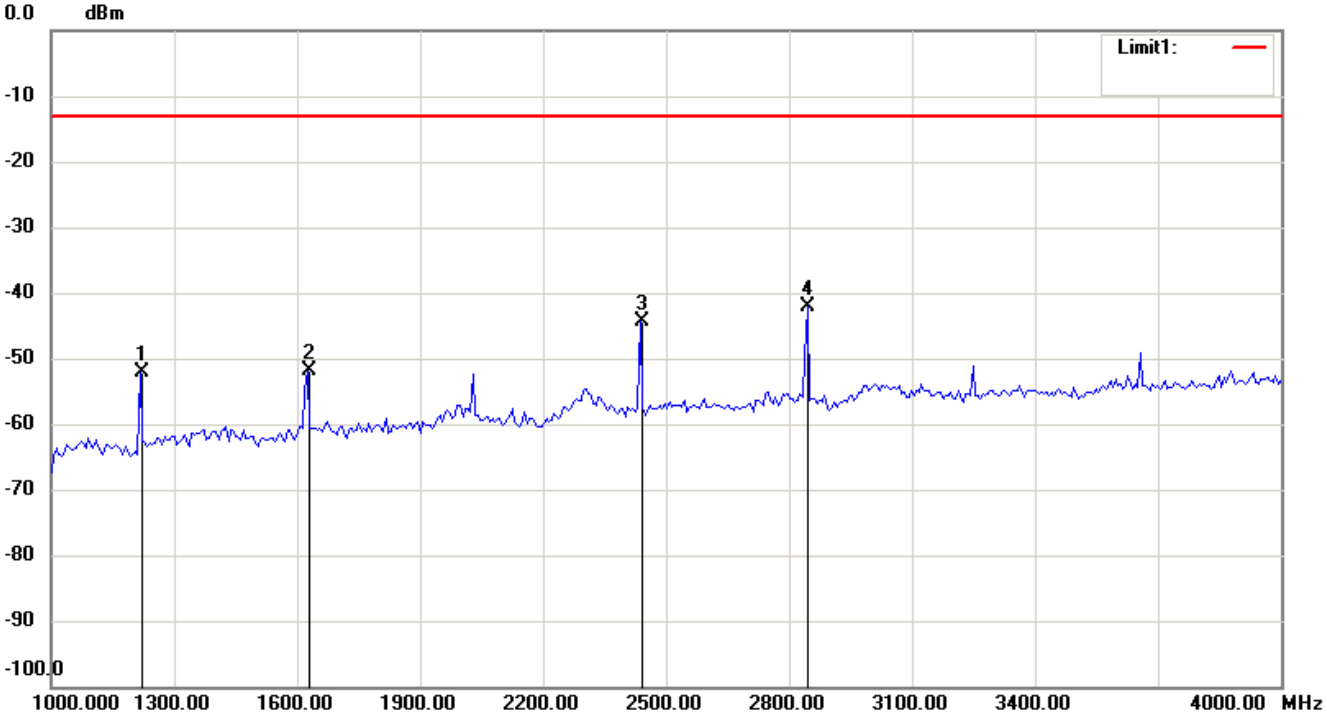
25 kHz-406.125 MHz
Antenna Polarization H

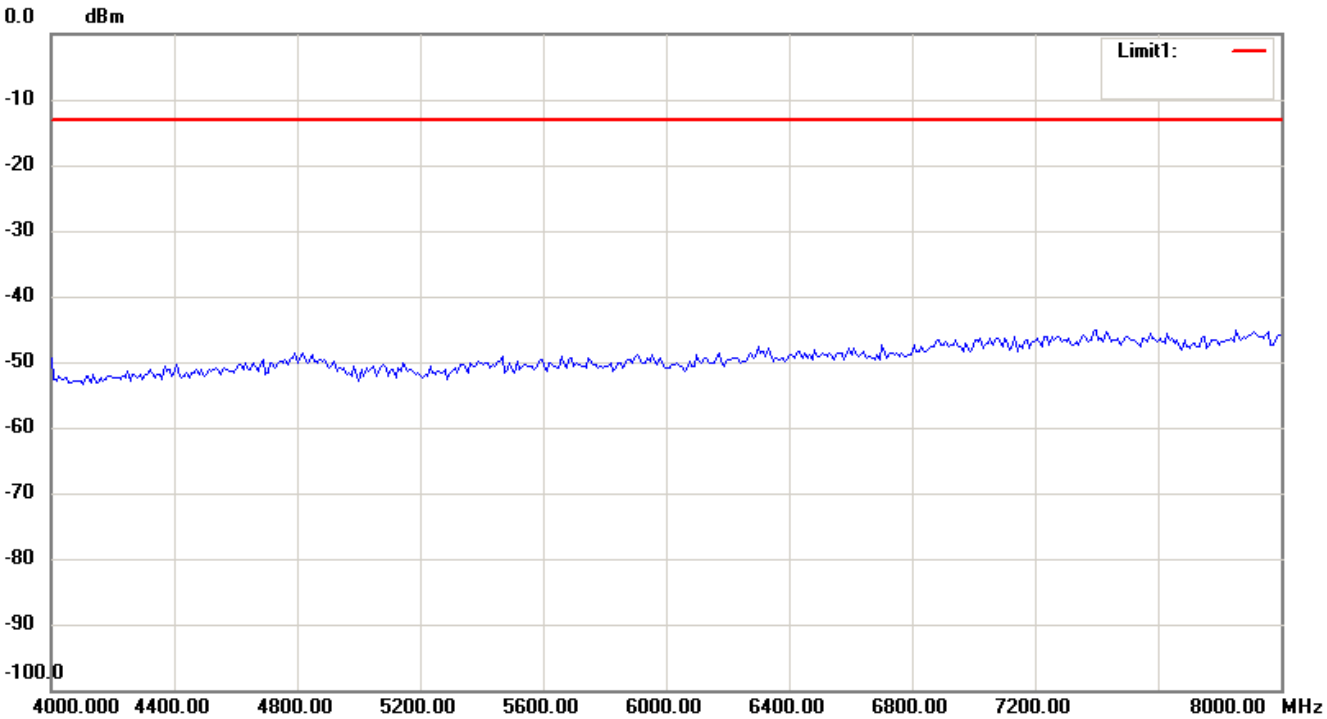




Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**



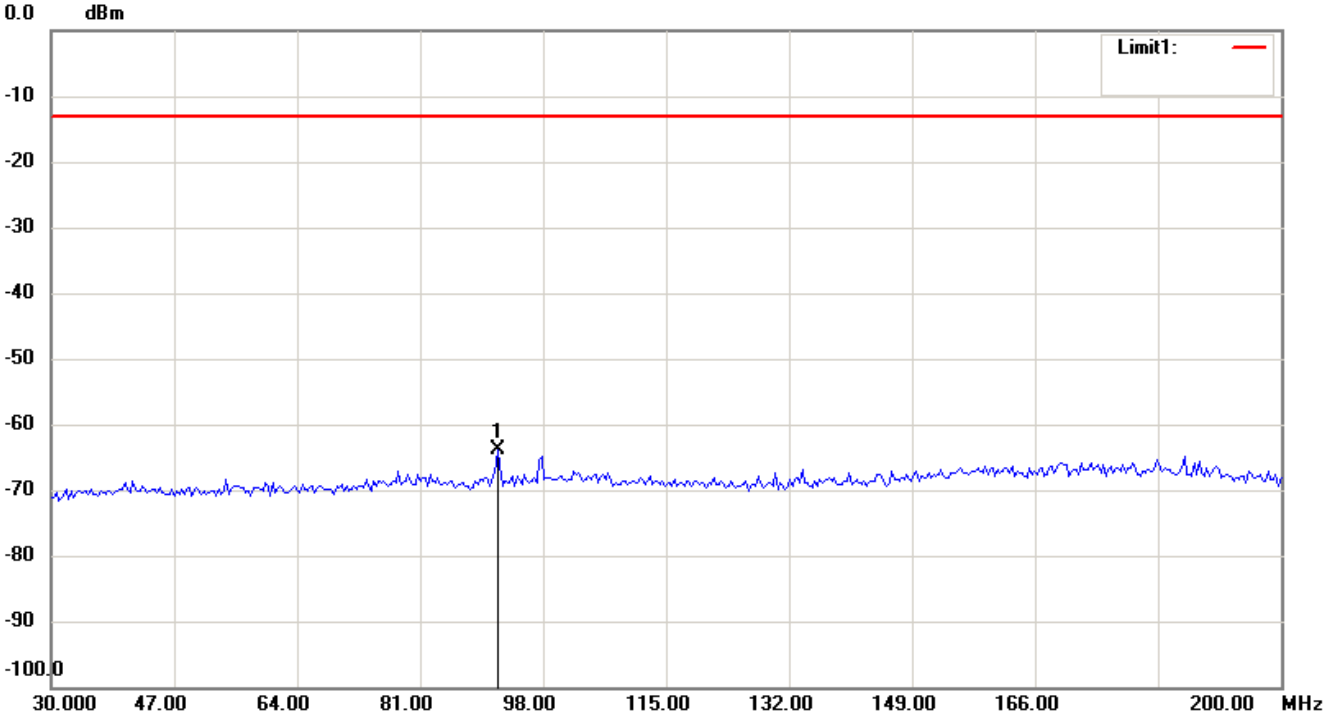


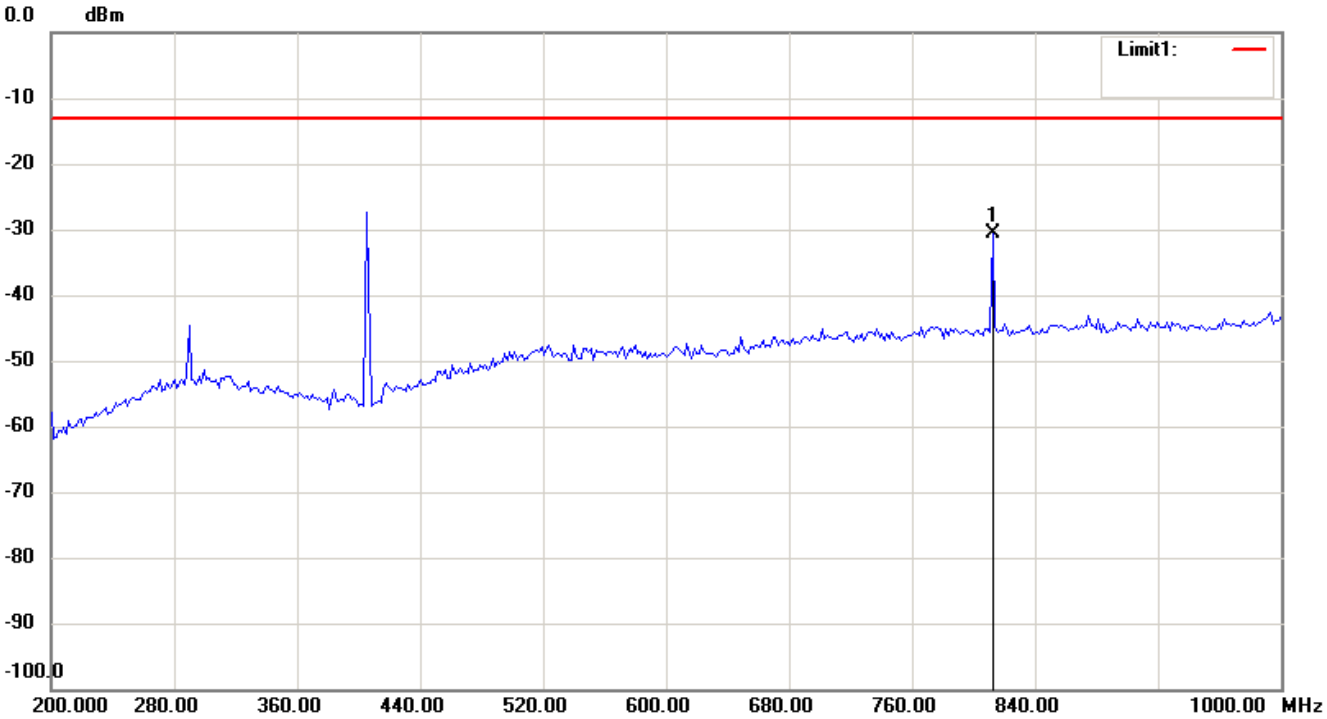
Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

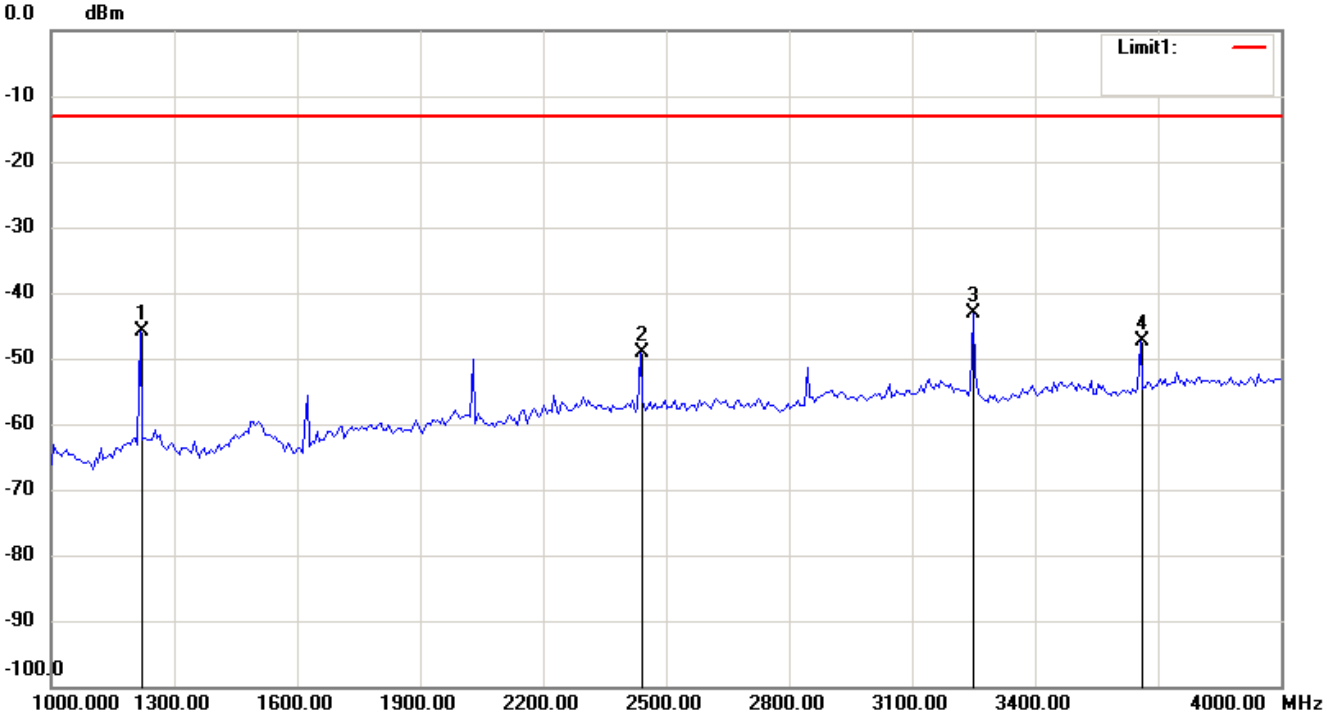
Antenna Polarization V

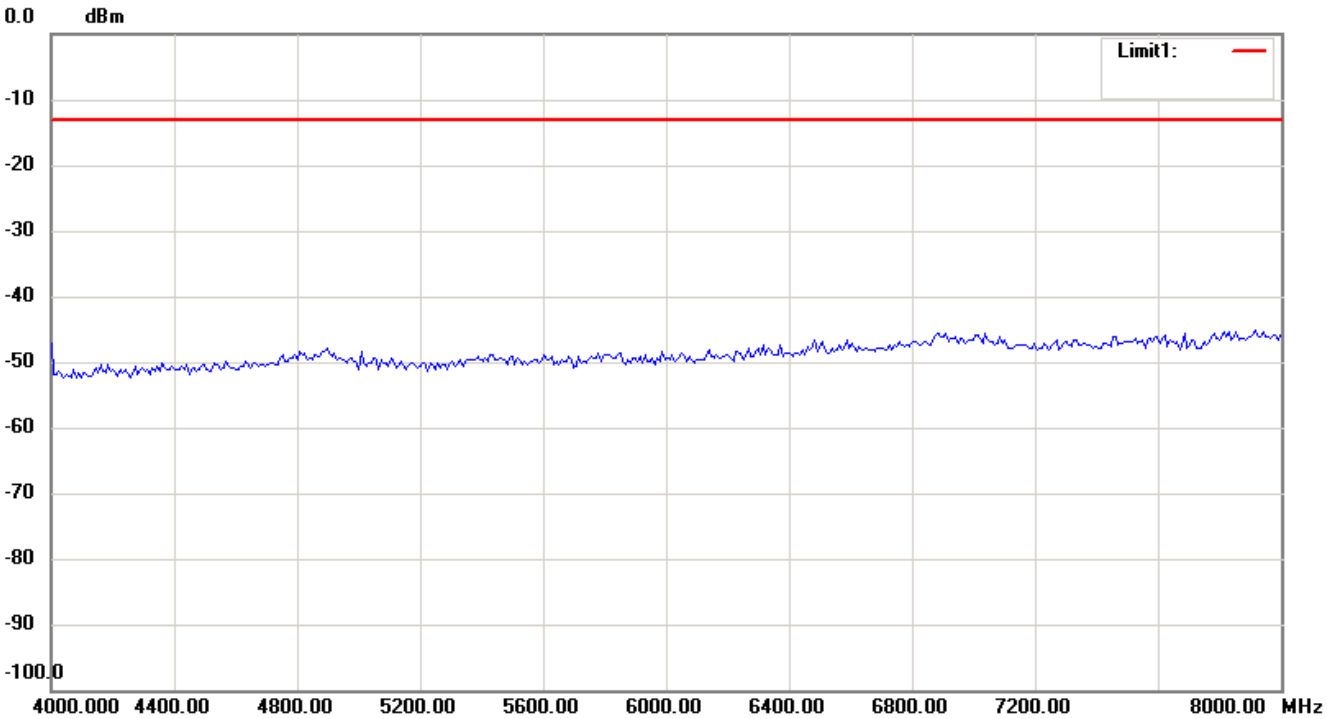




Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**





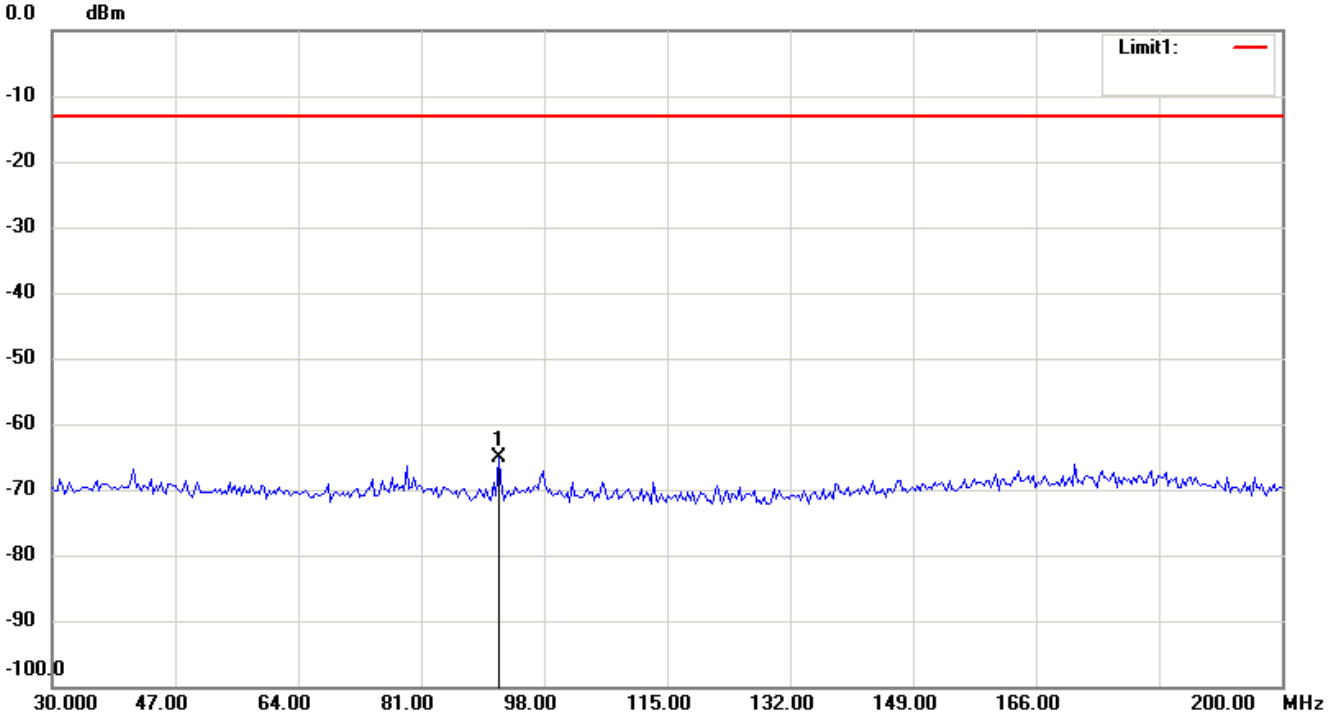
Note:

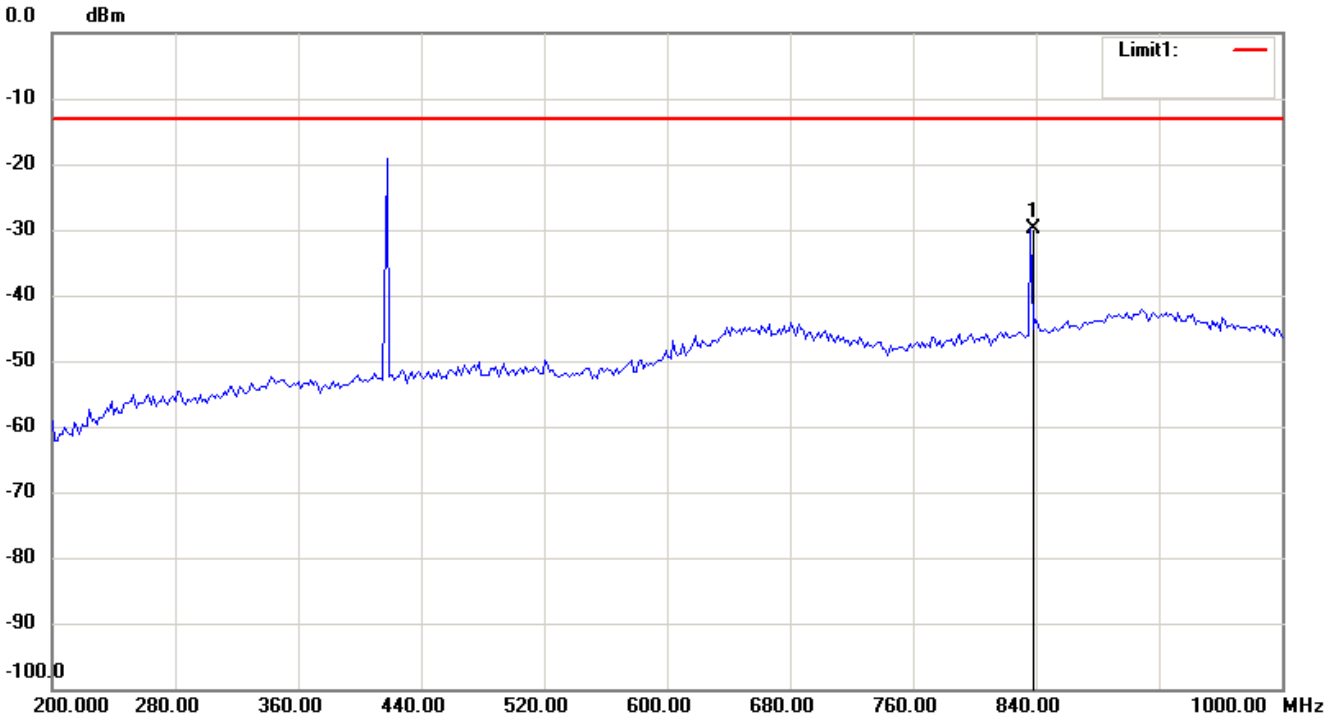
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

25 kHz-418 MHz

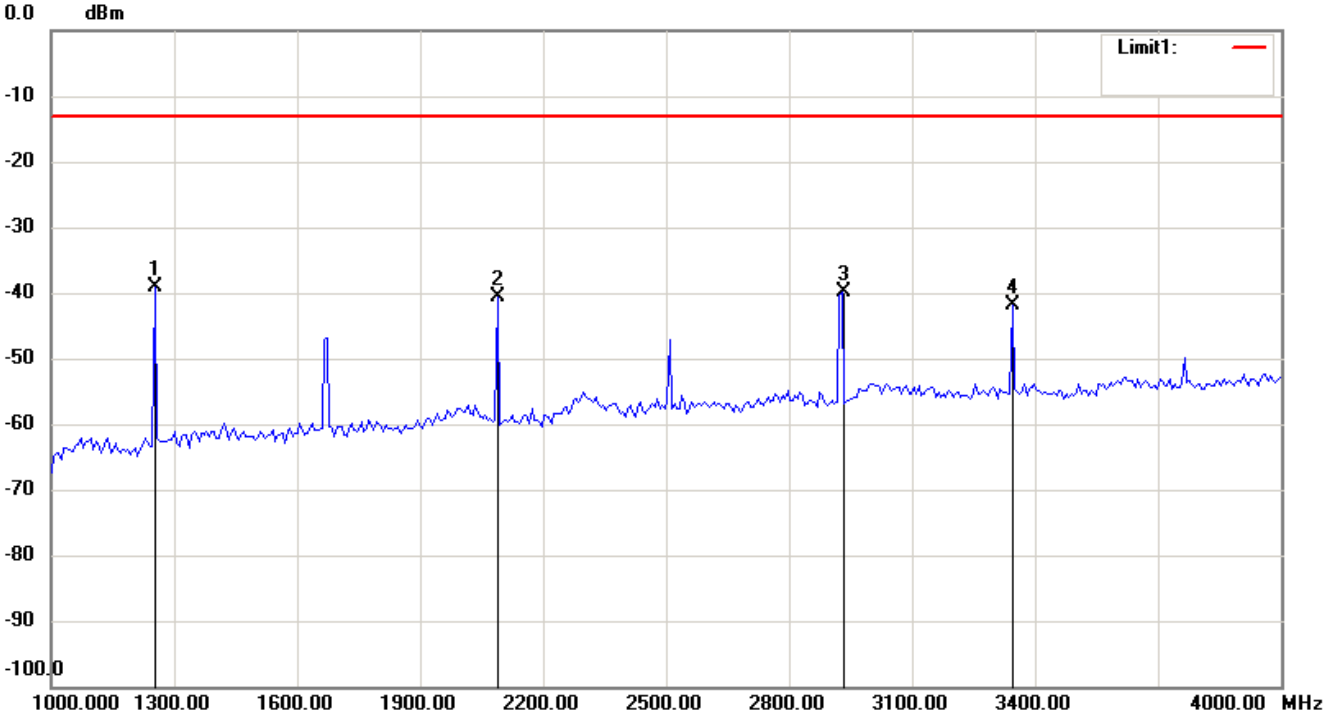
Antenna Polarization H

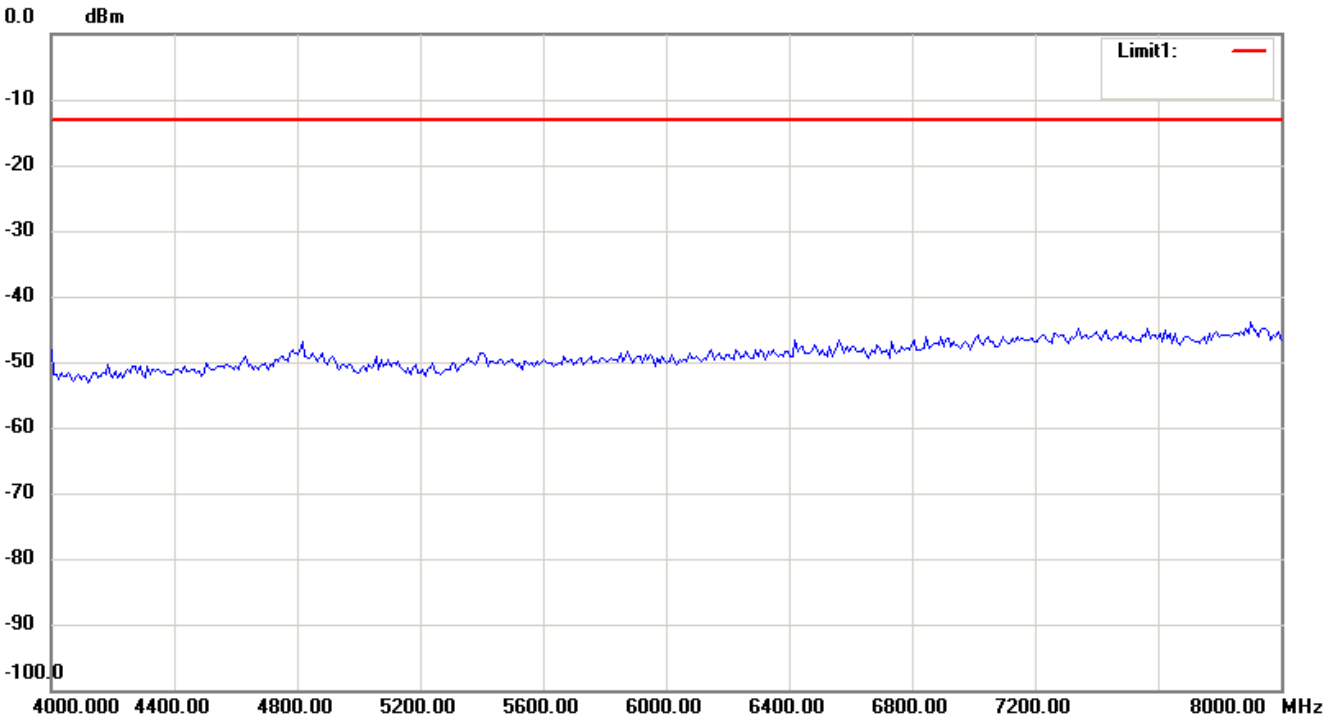




Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**



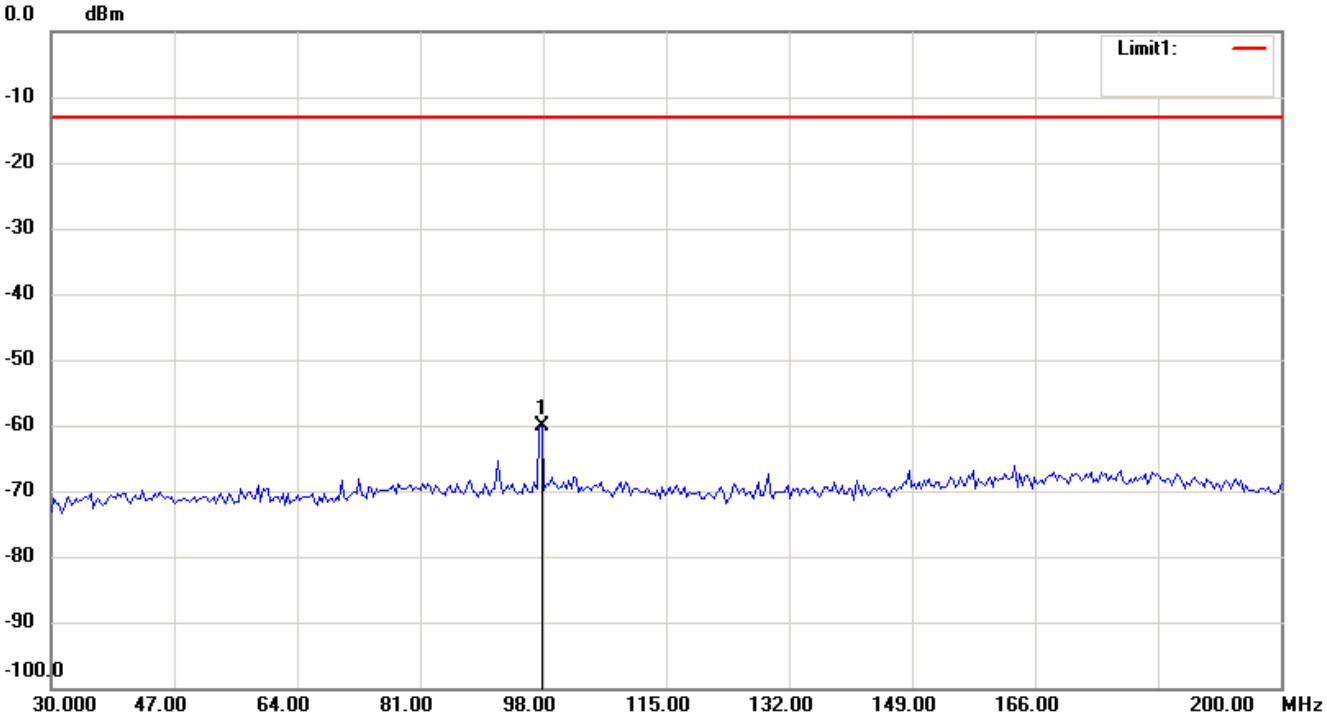


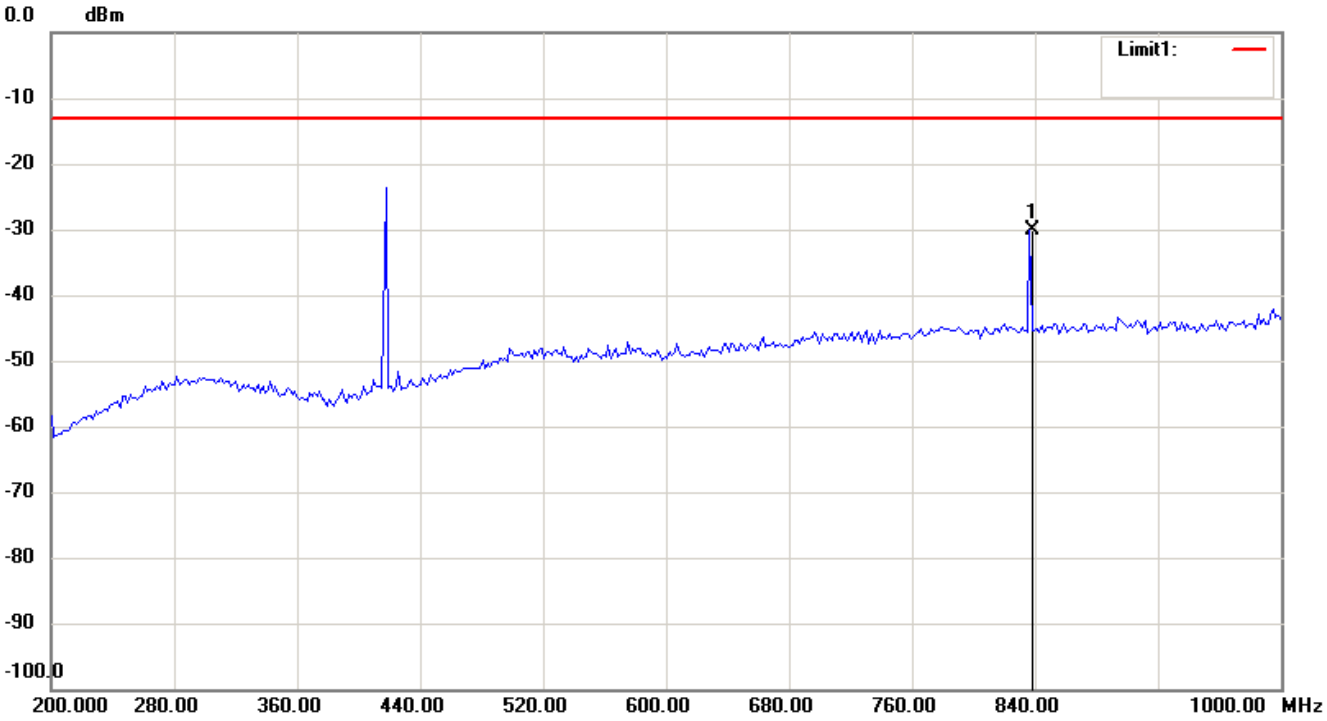
Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

Antenna Polarization V

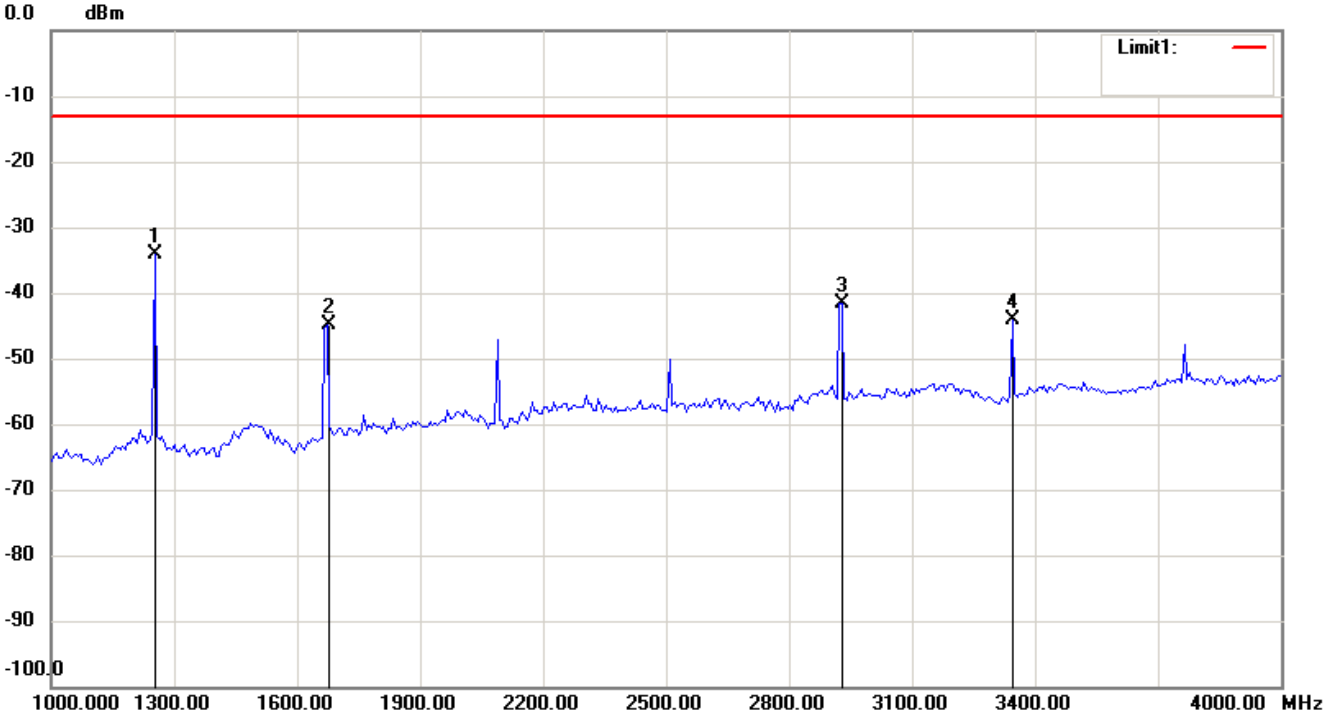


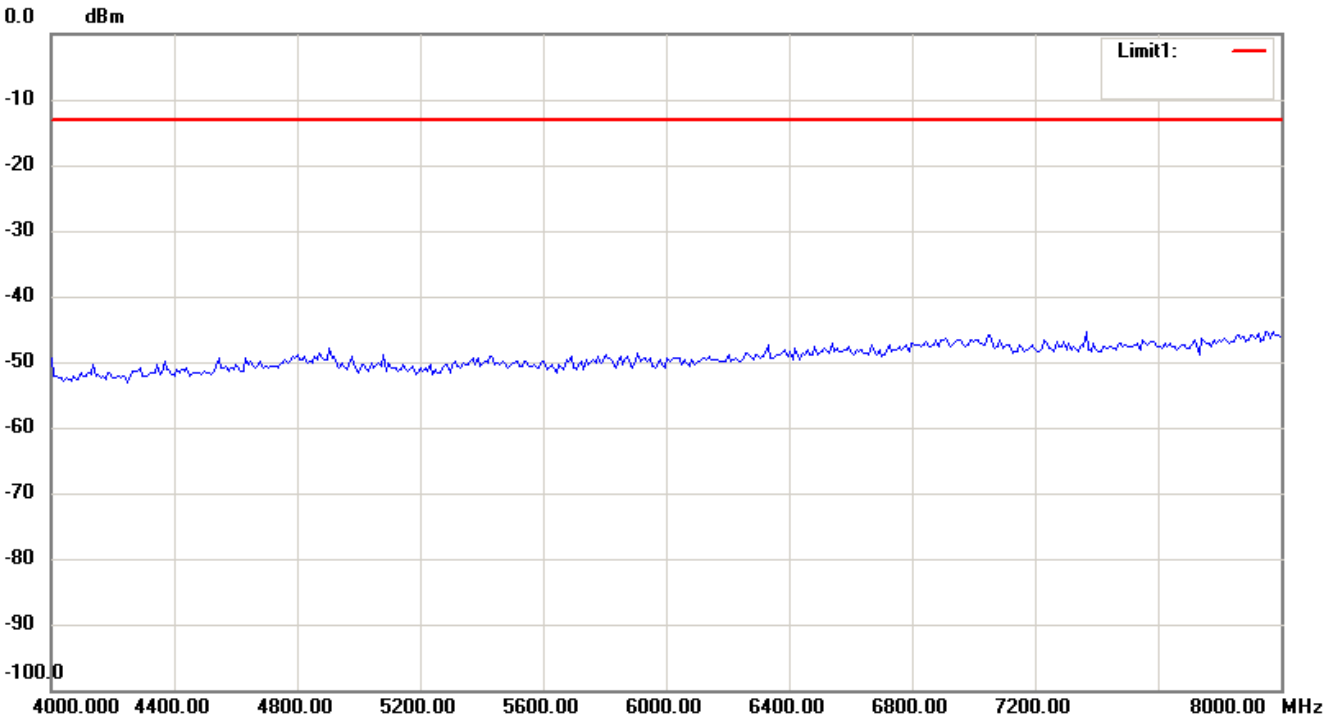


Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B





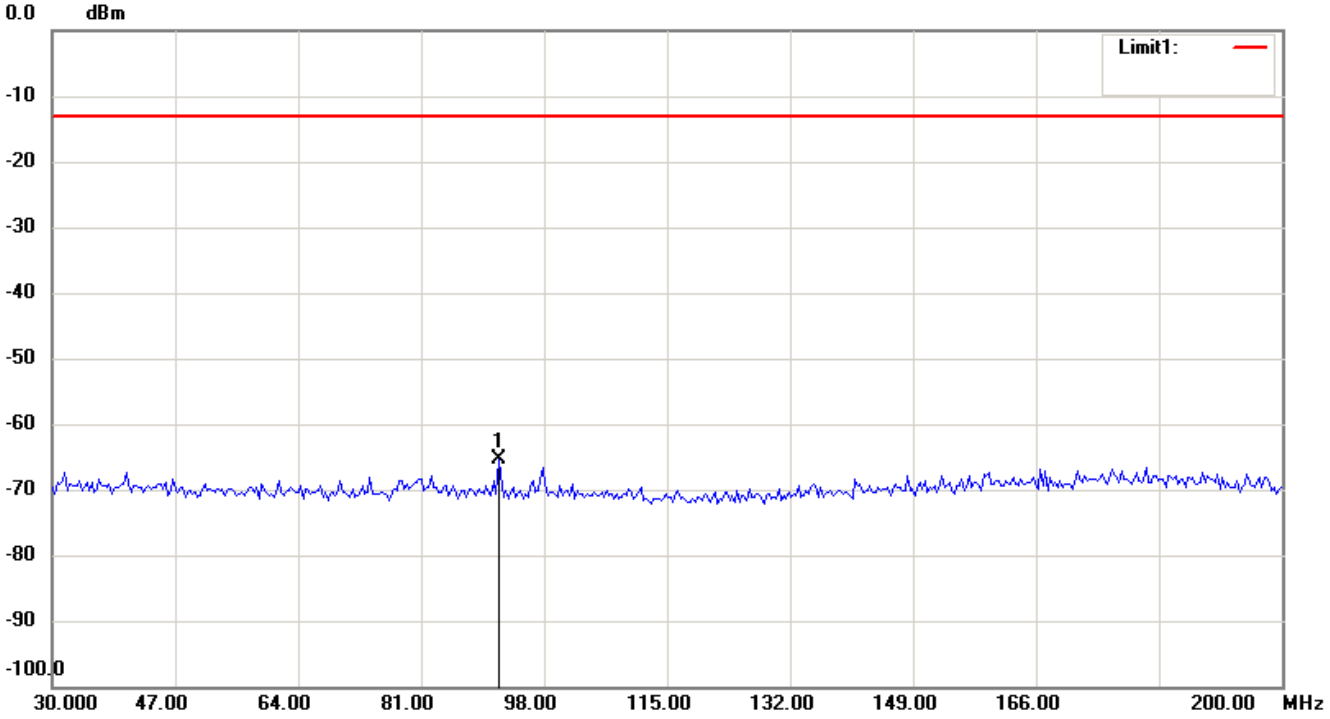
Note:

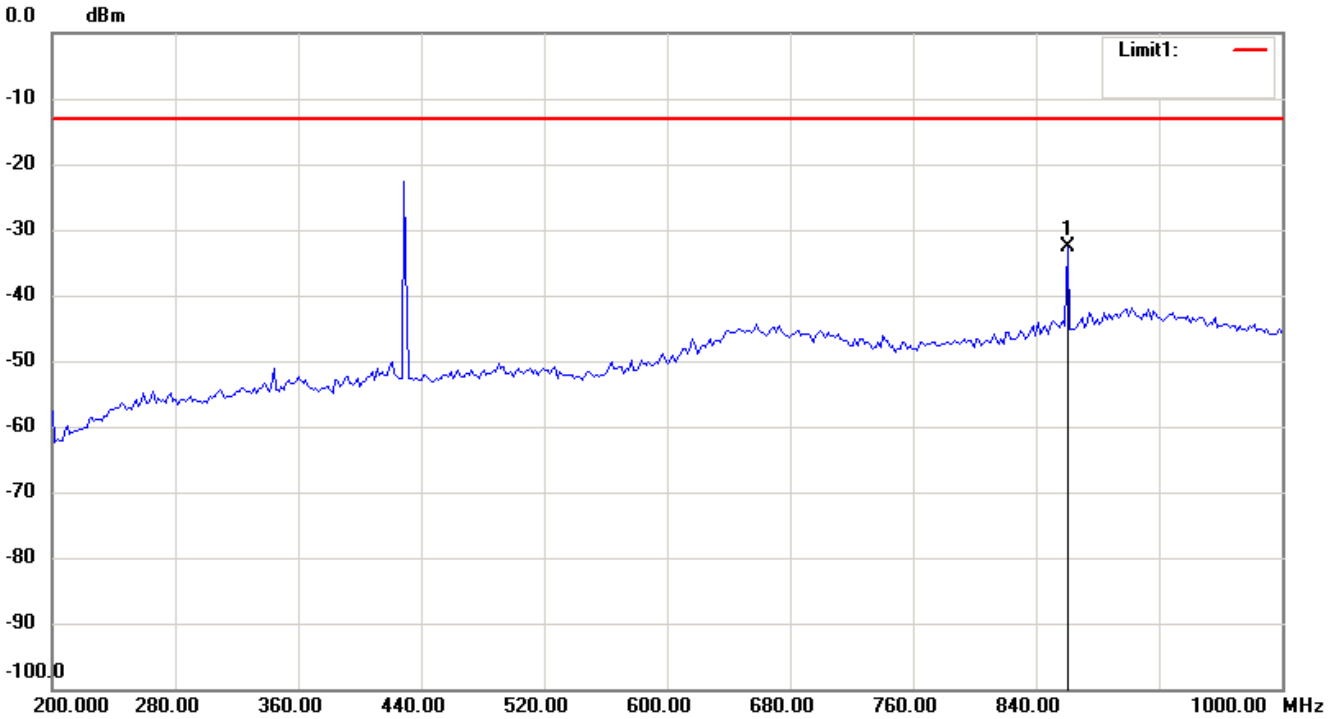
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

25 kHz-429.975 MHz

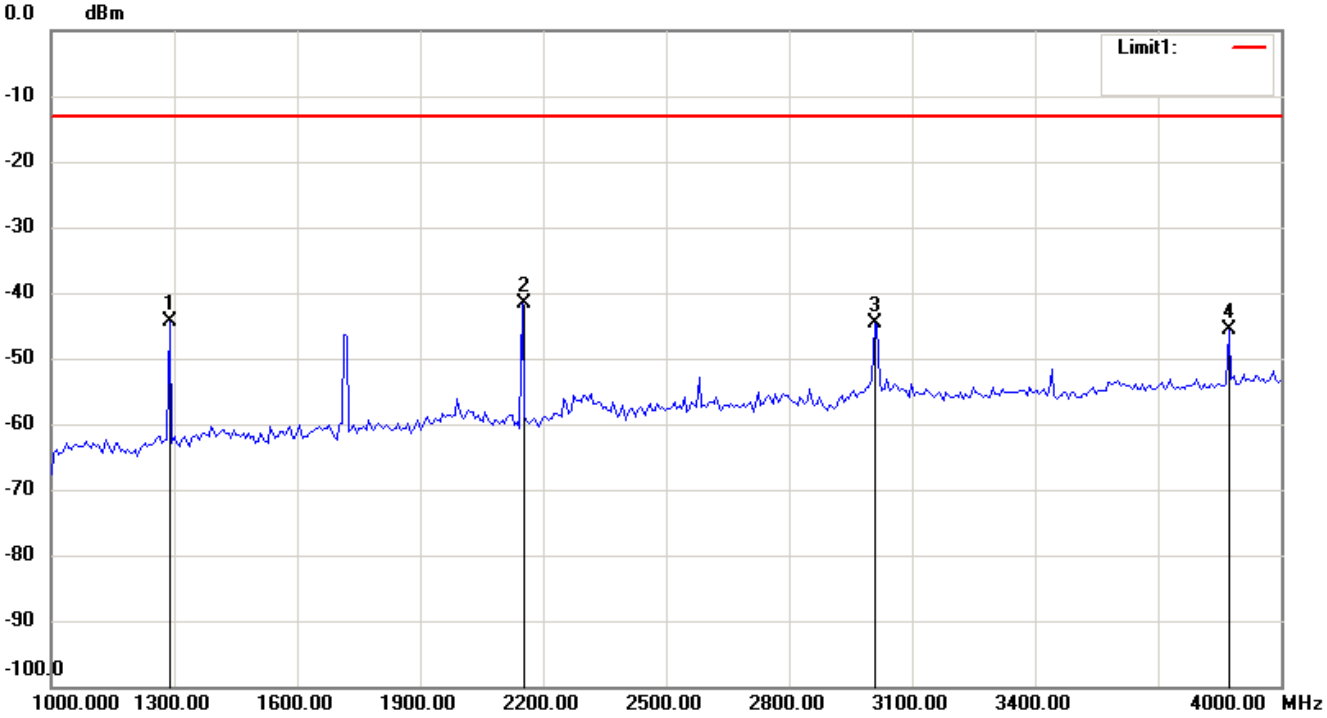
Antenna Polarization H

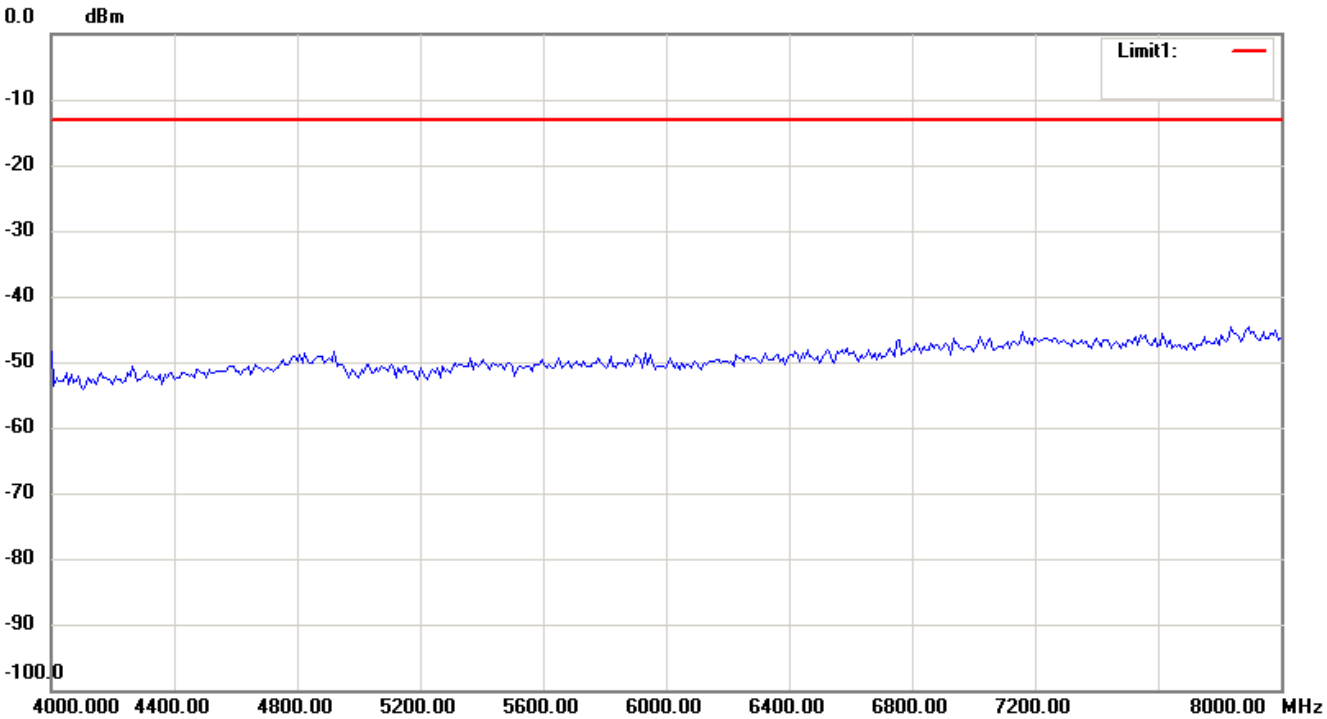




Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**



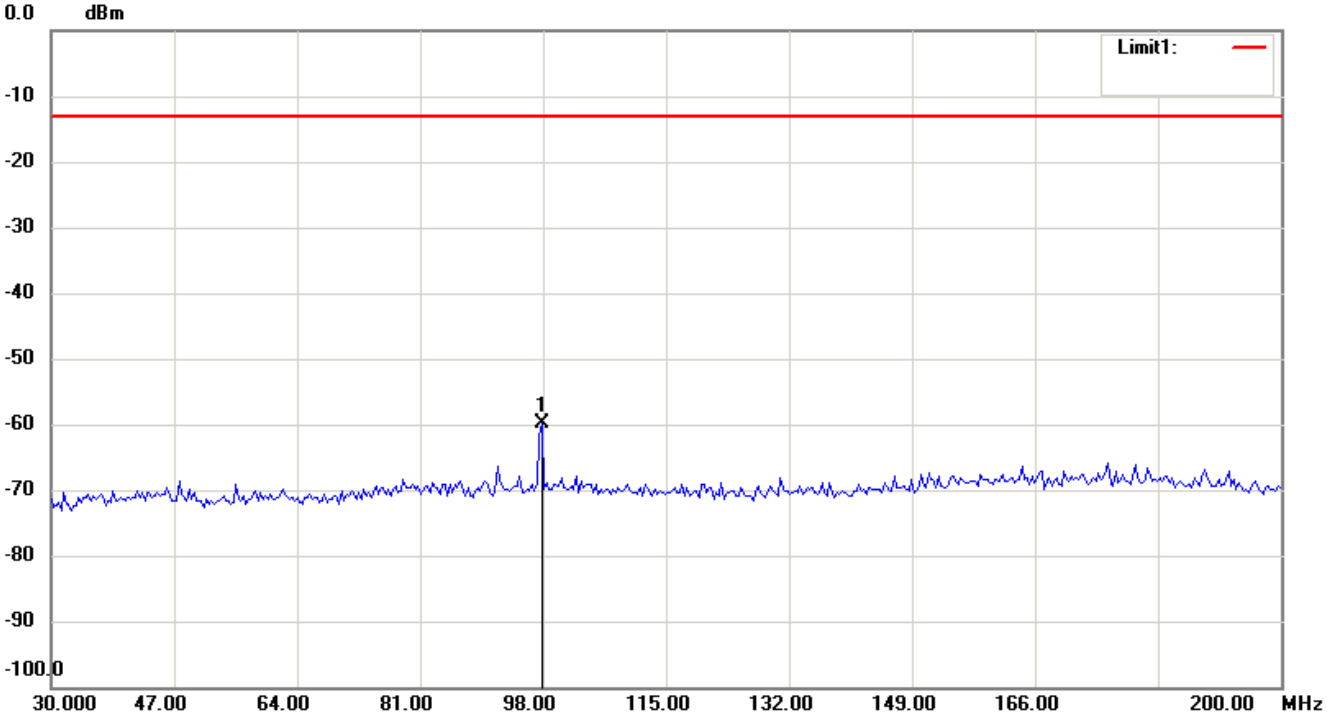


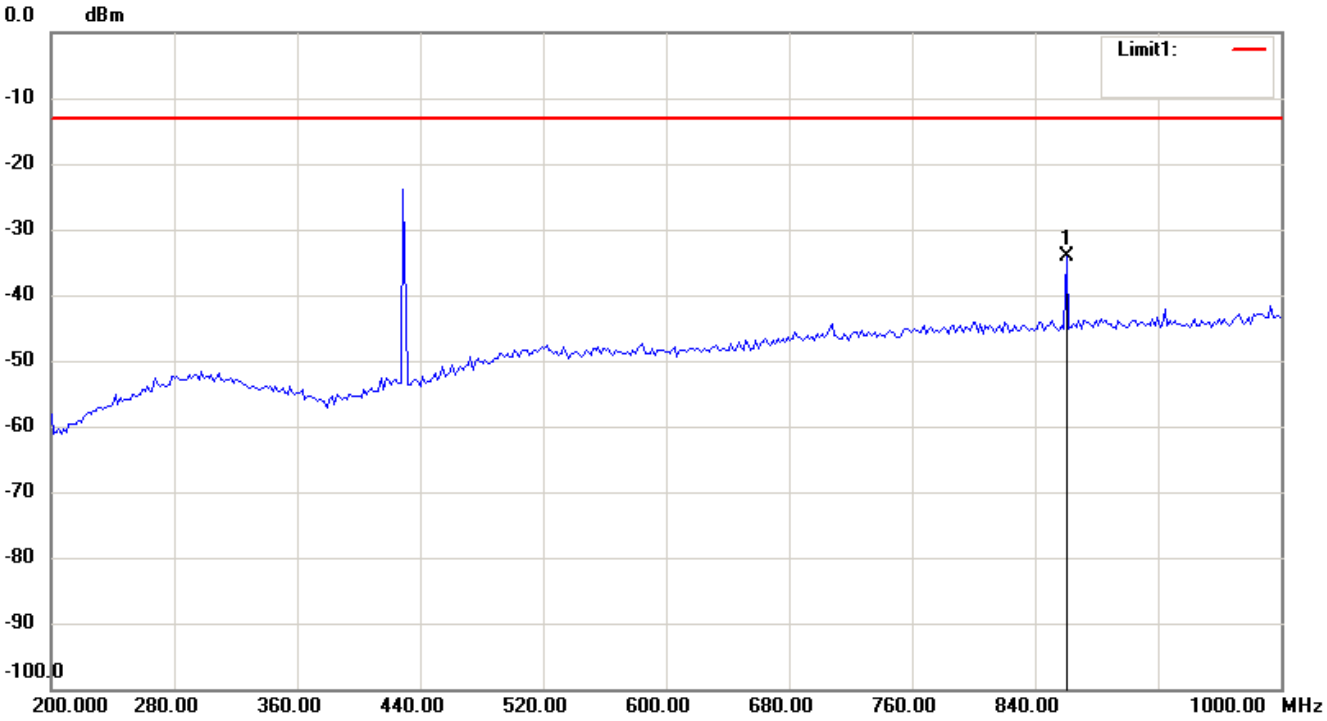
Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

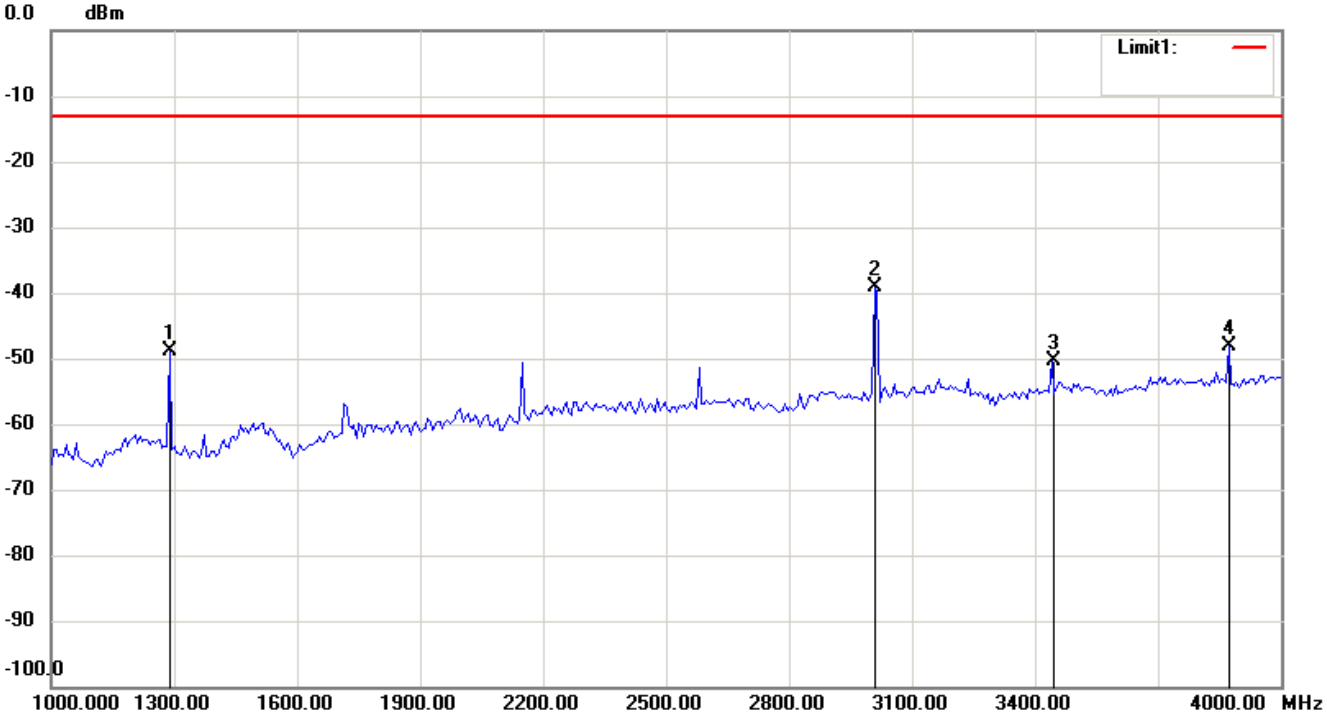
Antenna Polarization V

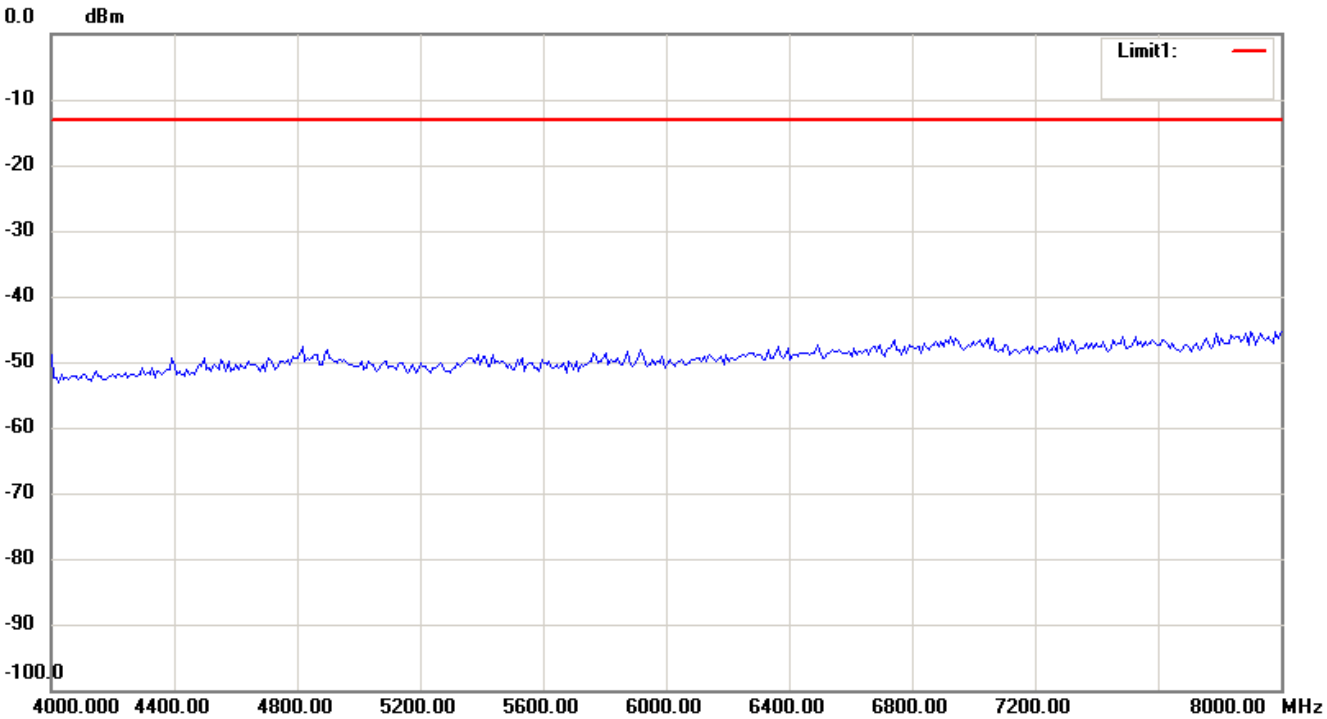




Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**





Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
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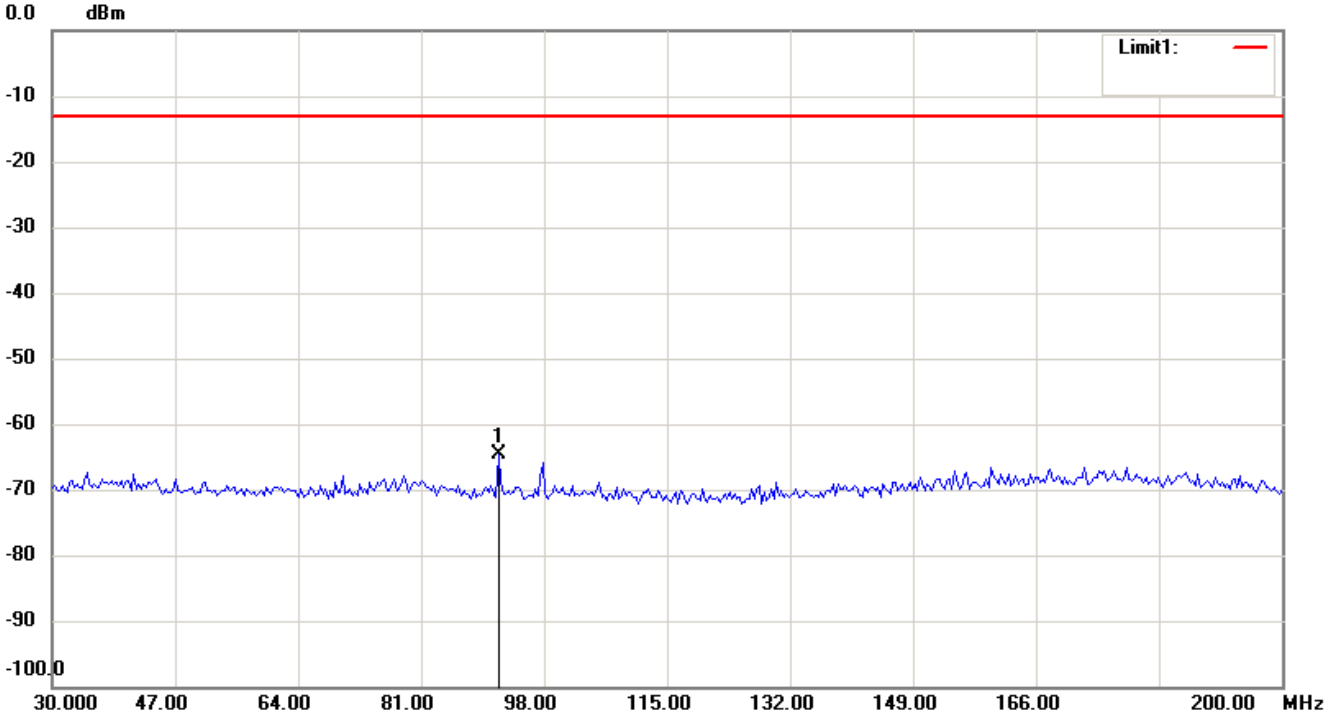
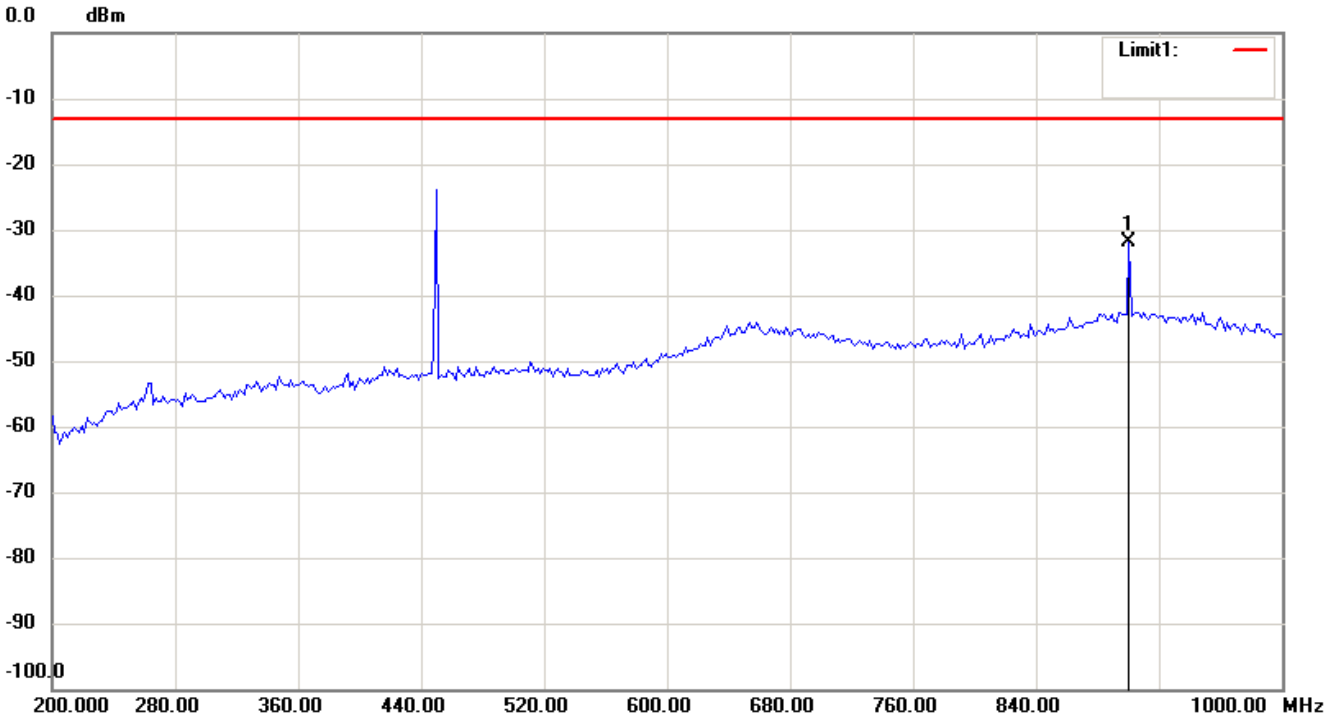
Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

25 kHz-450.025MHz

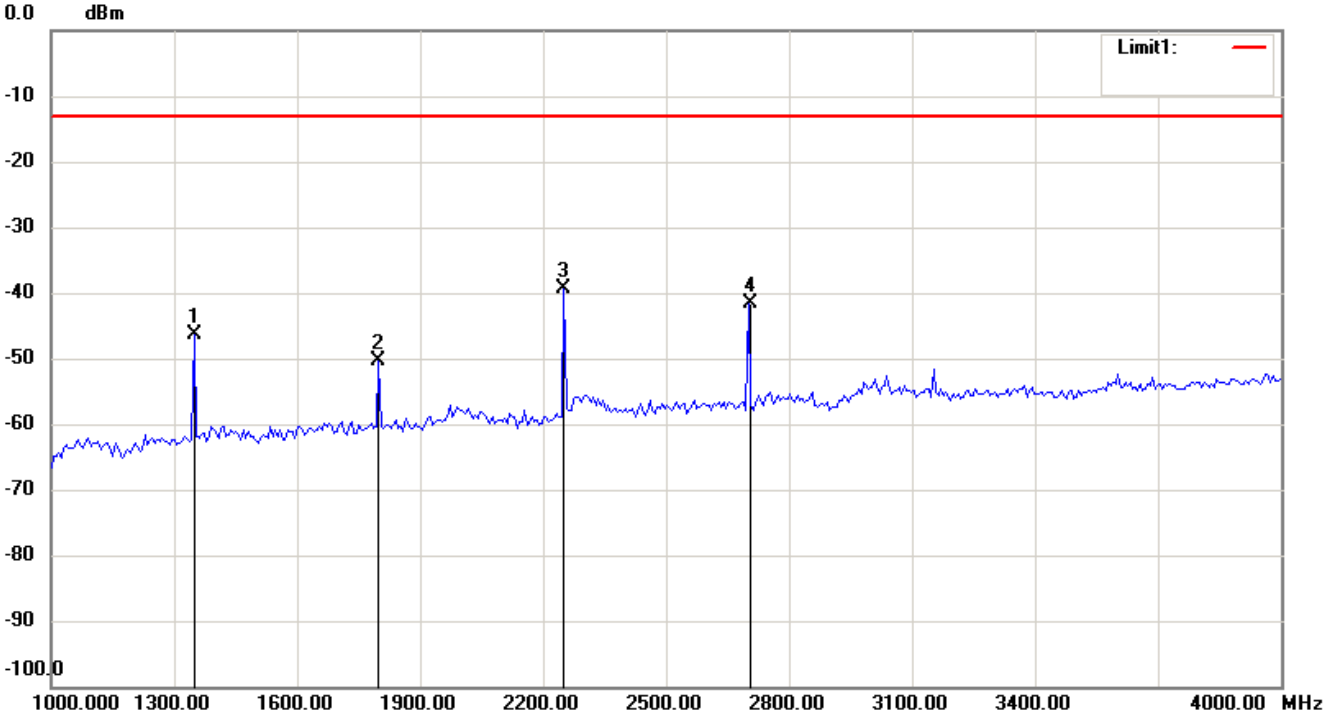
Antenna Polarization H

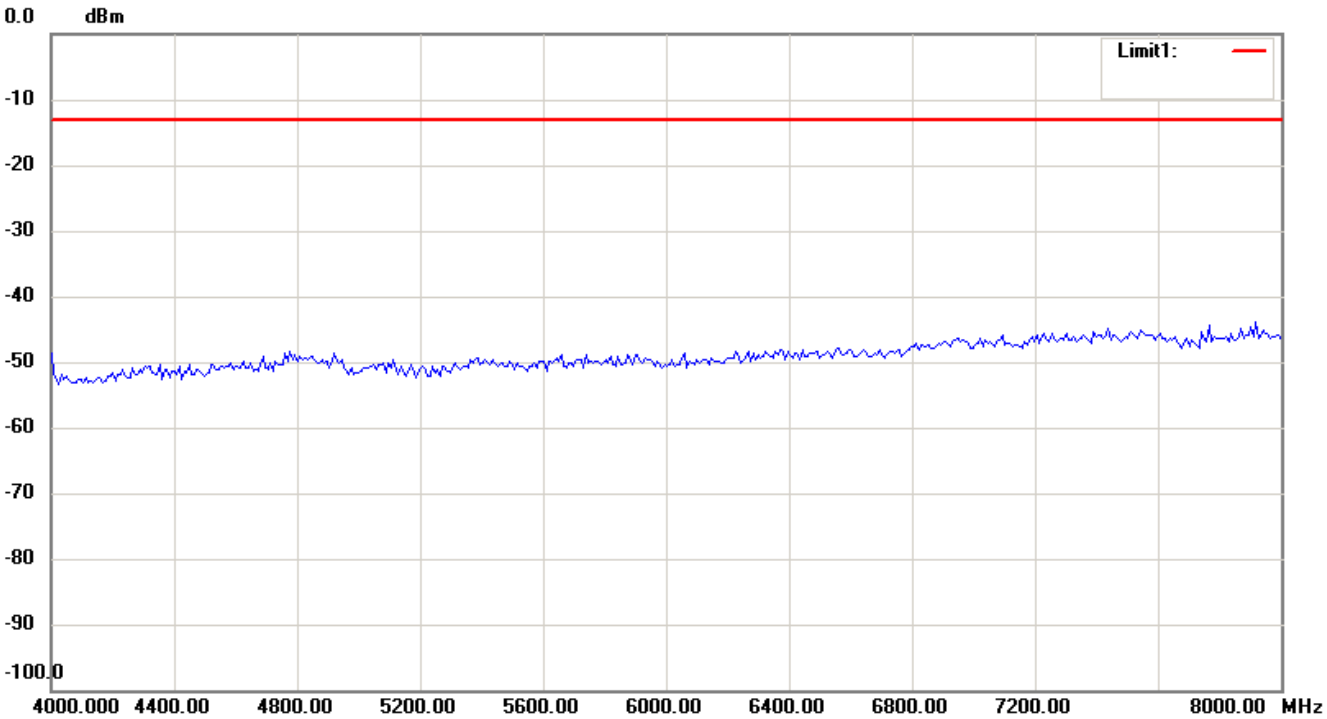




Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**





Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
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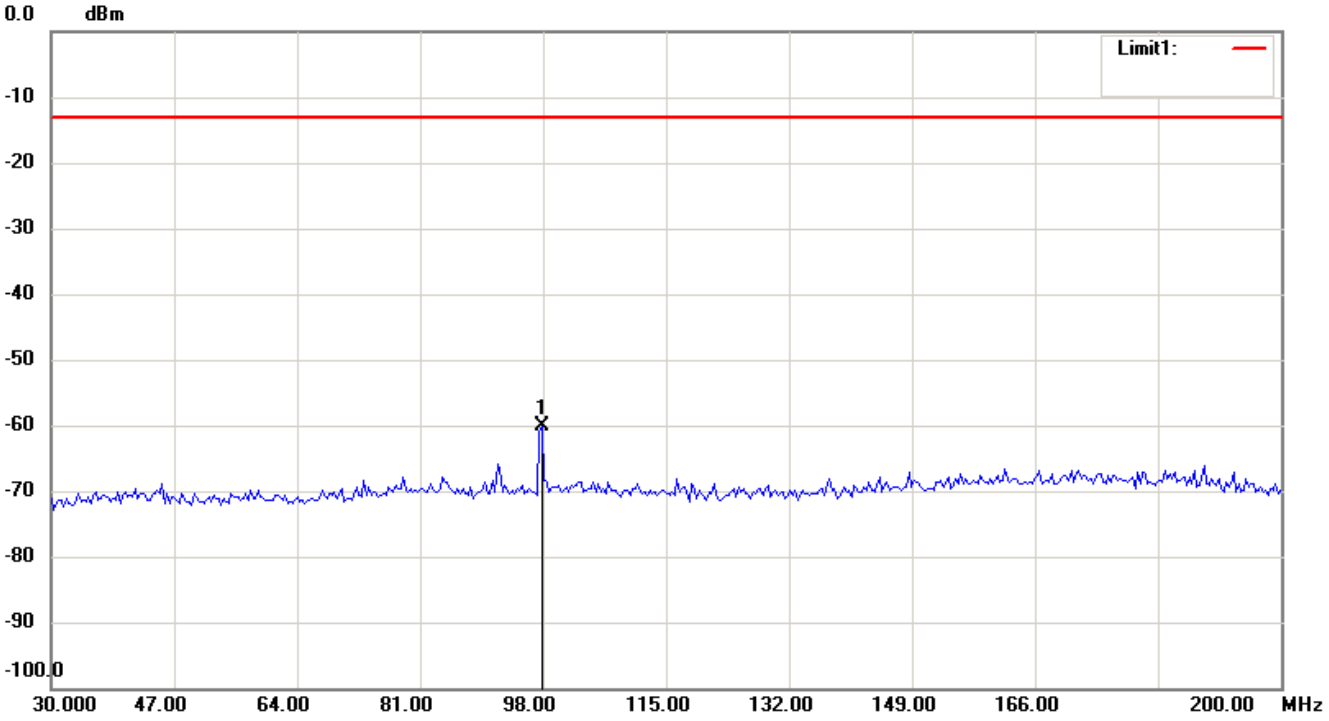
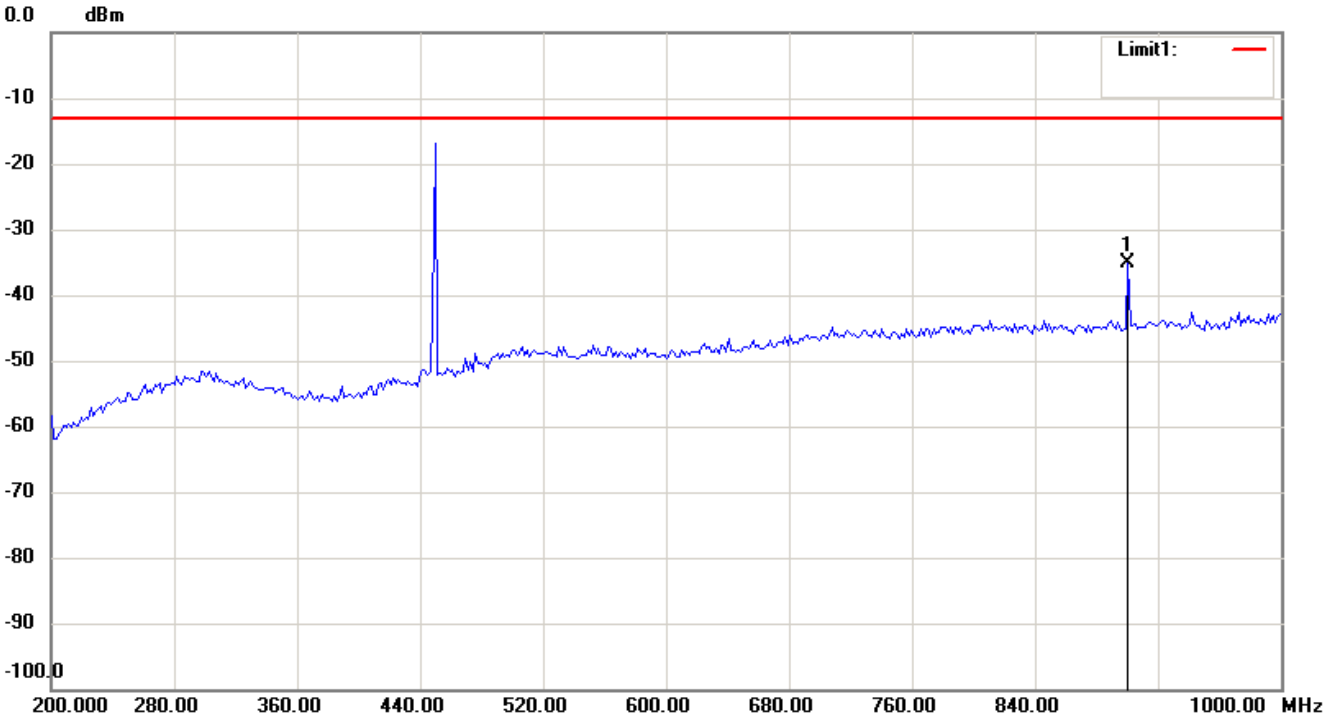
Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

Antenna Polarization V

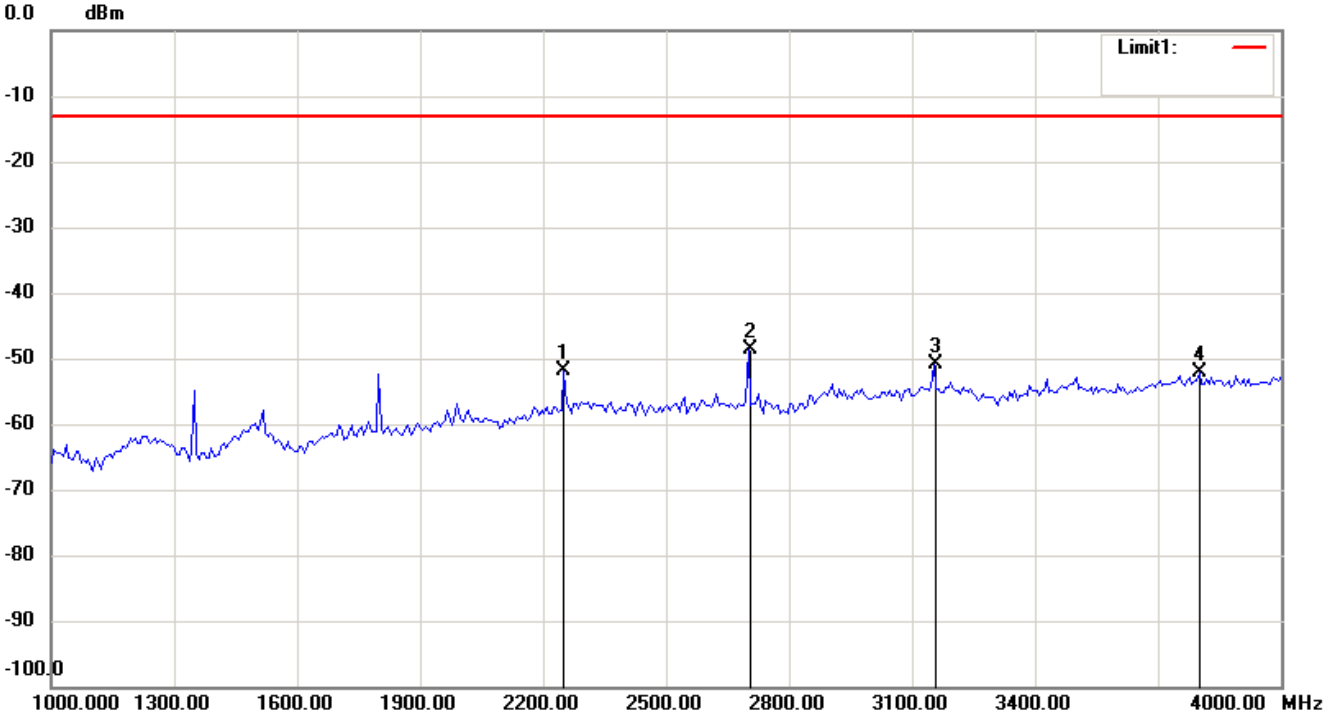


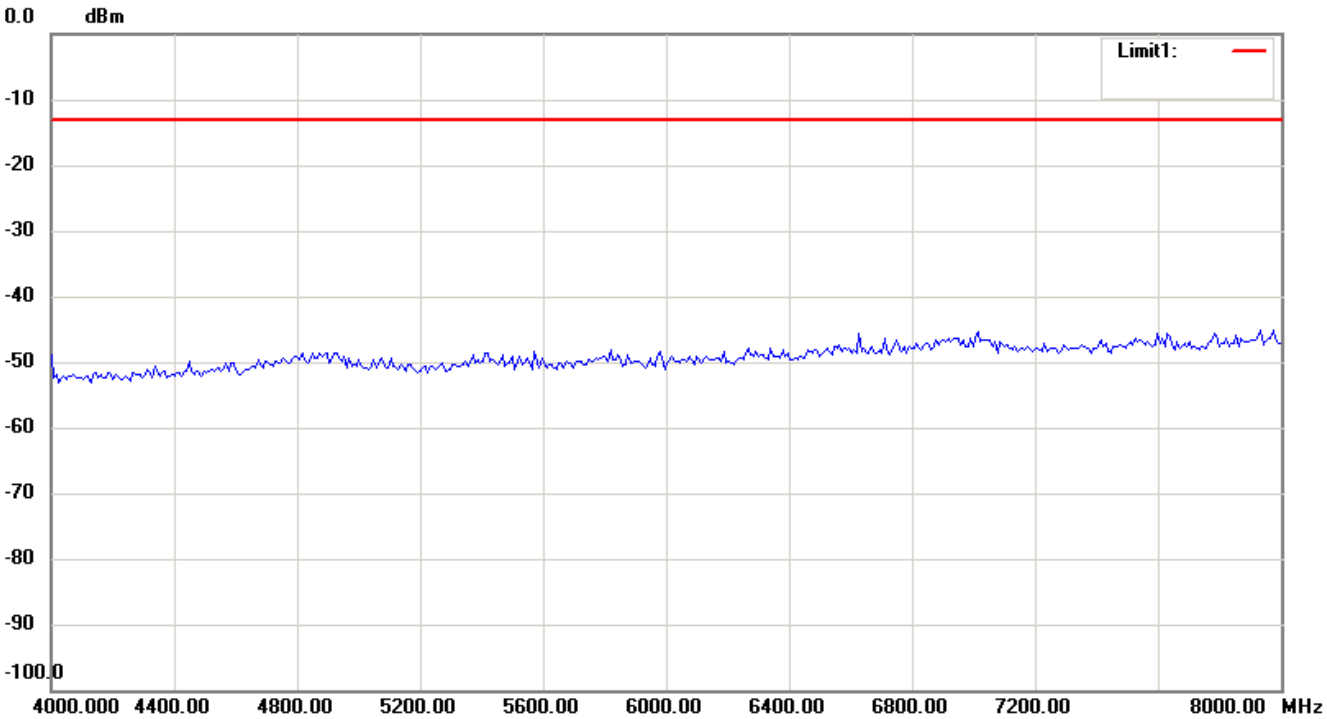


Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B





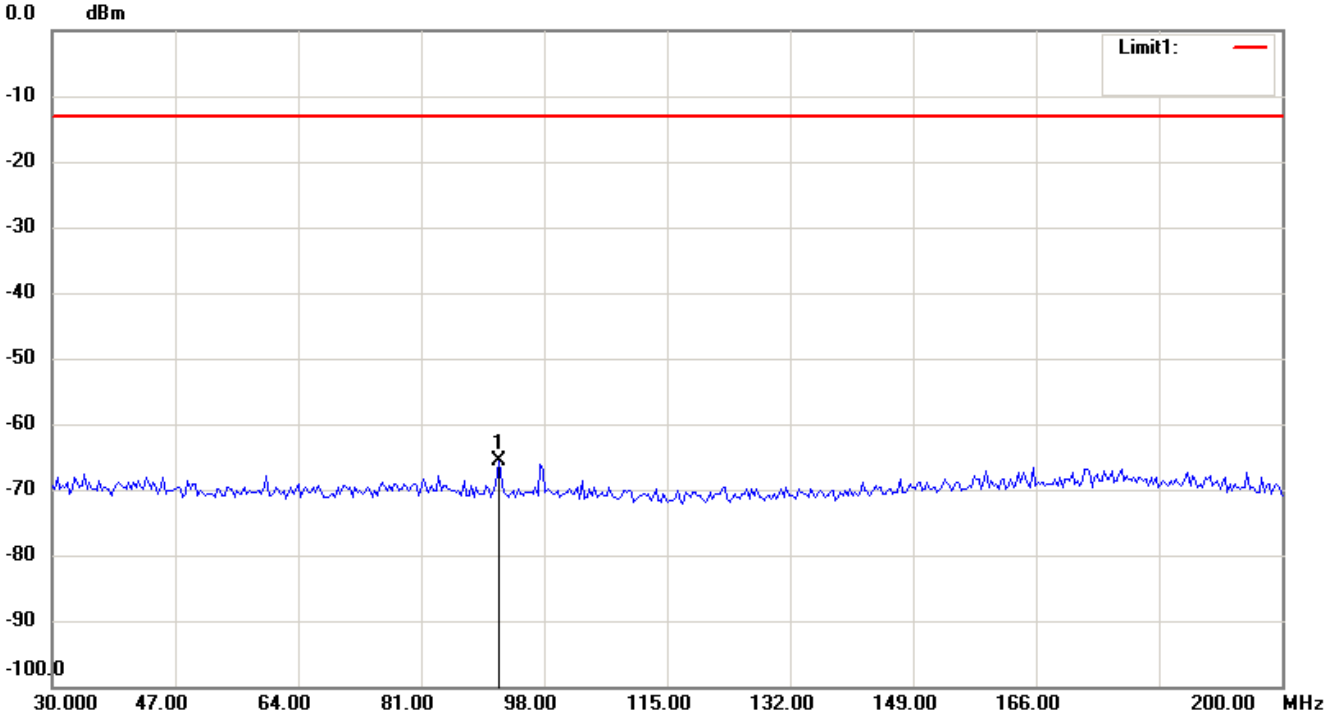
Note:

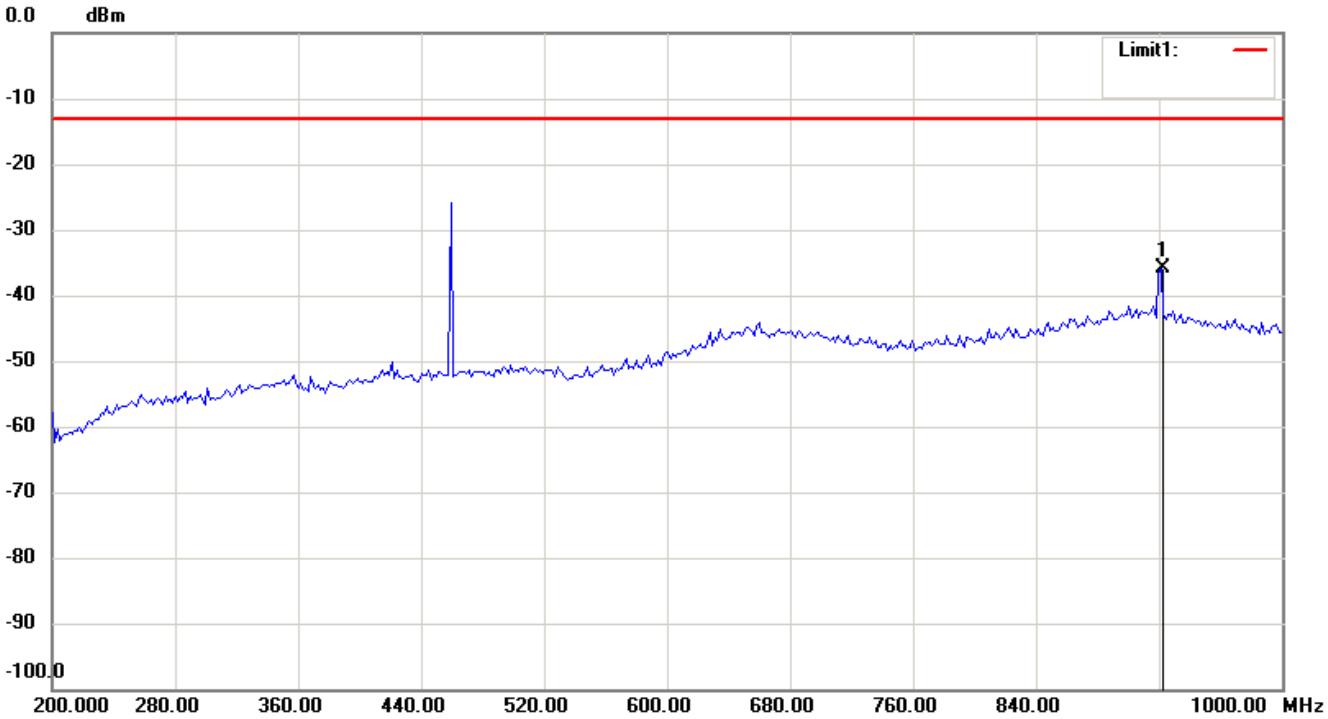
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

25 kHz-460 MHz

Antenna Polarization H

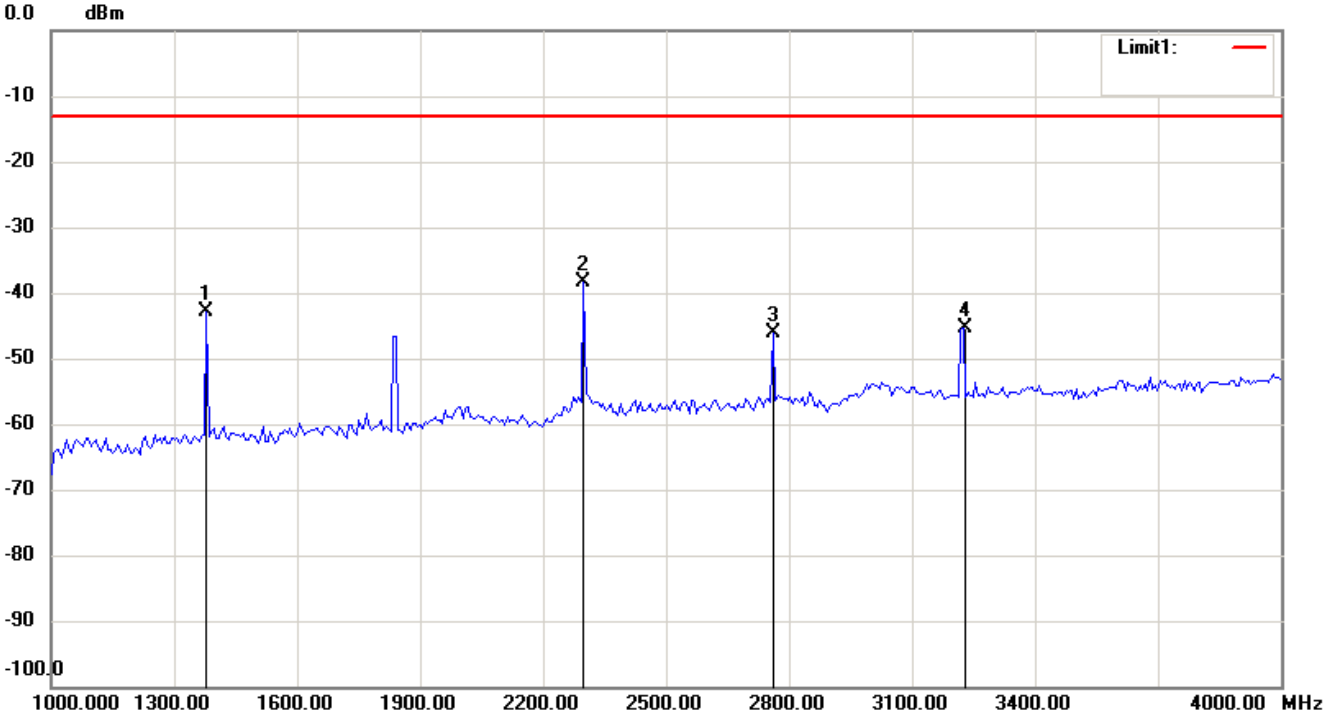


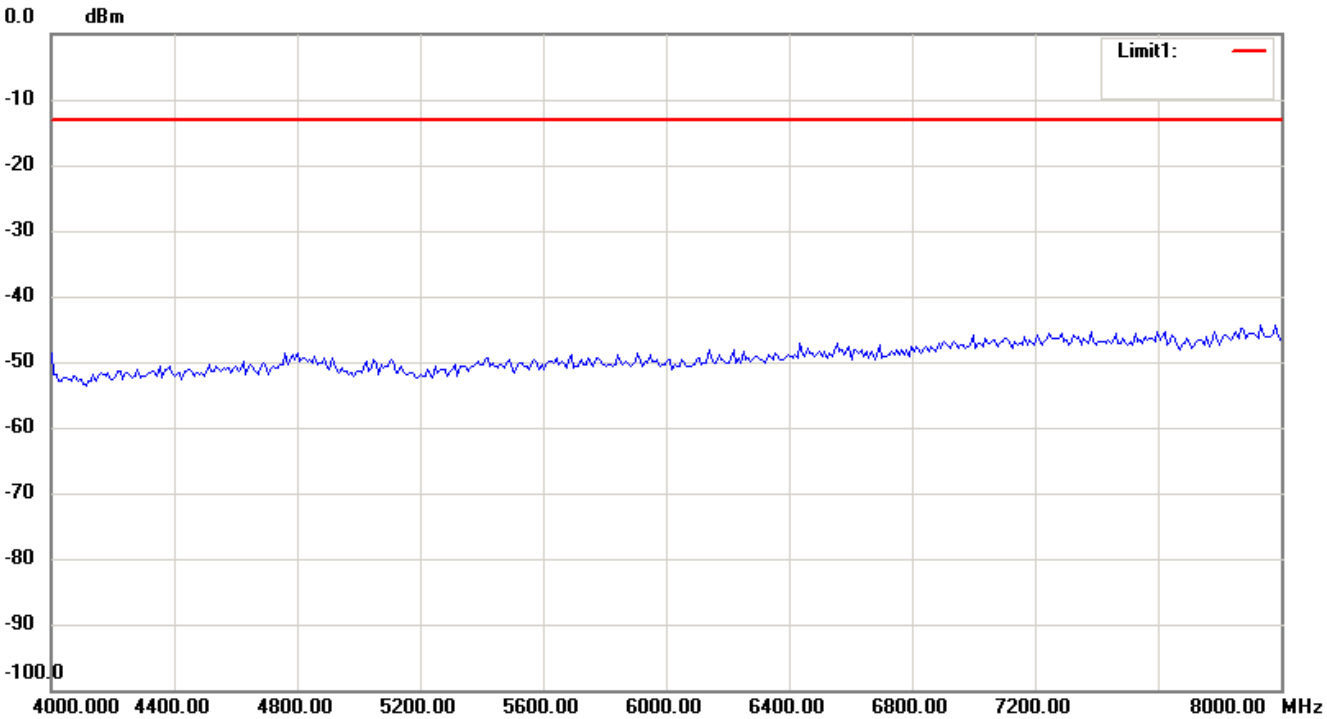


Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B



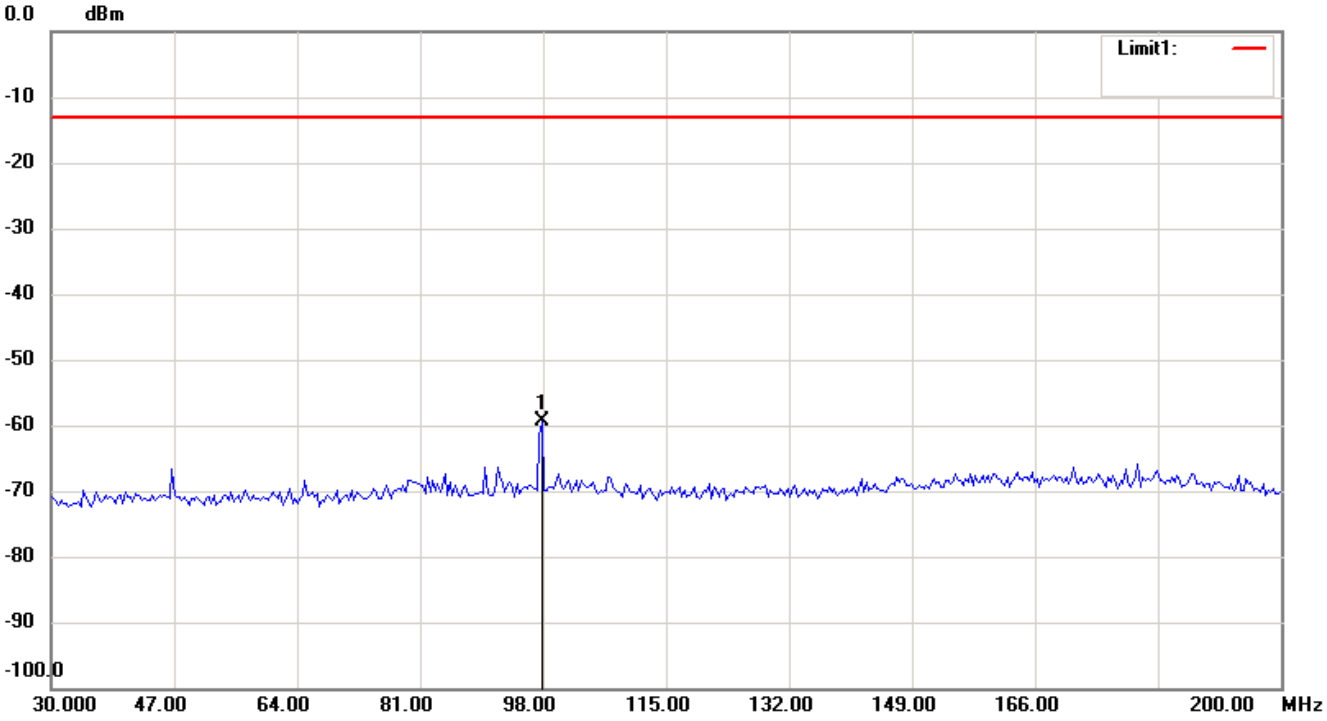


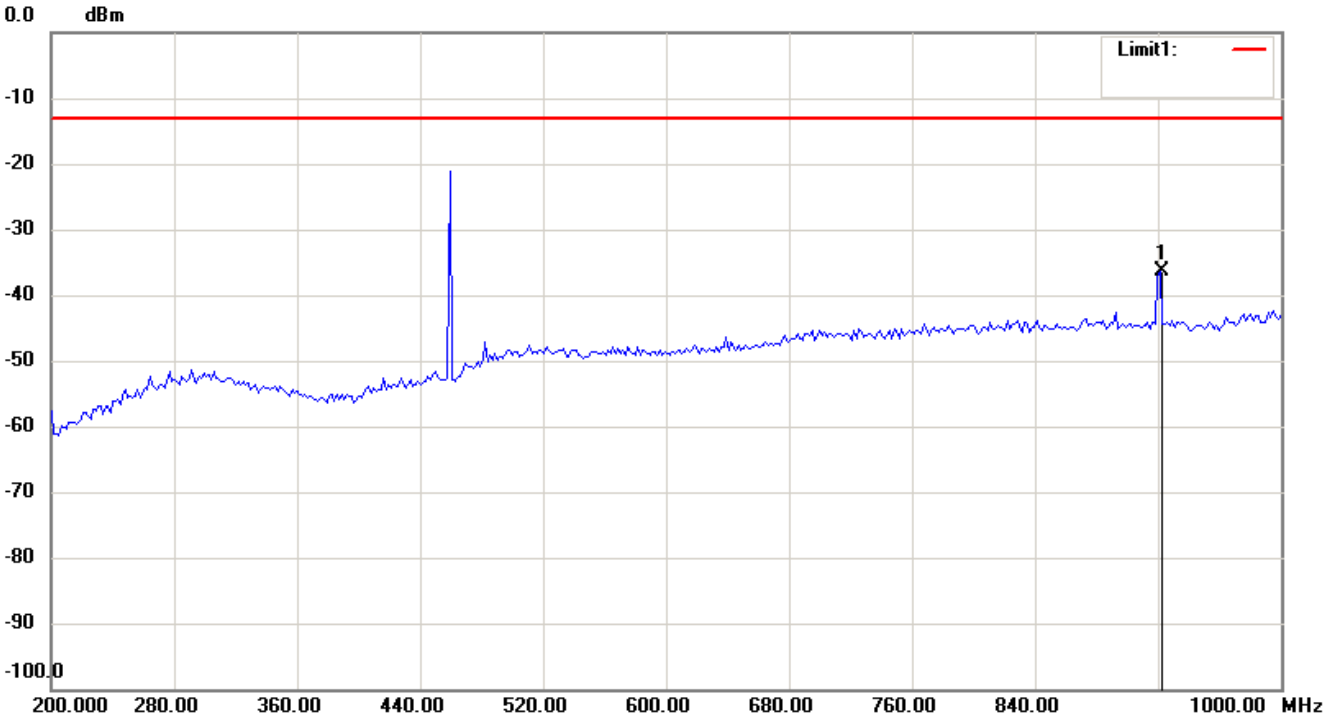
Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

Antenna Polarization V





Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
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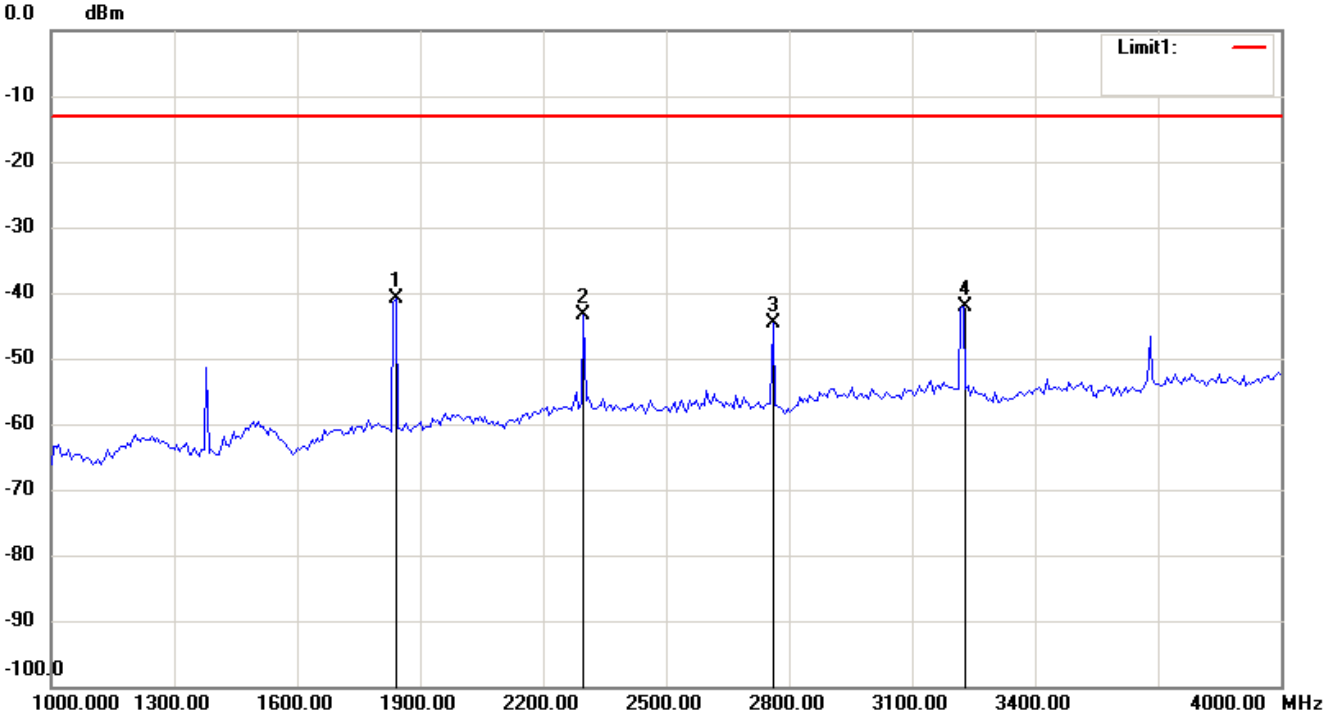
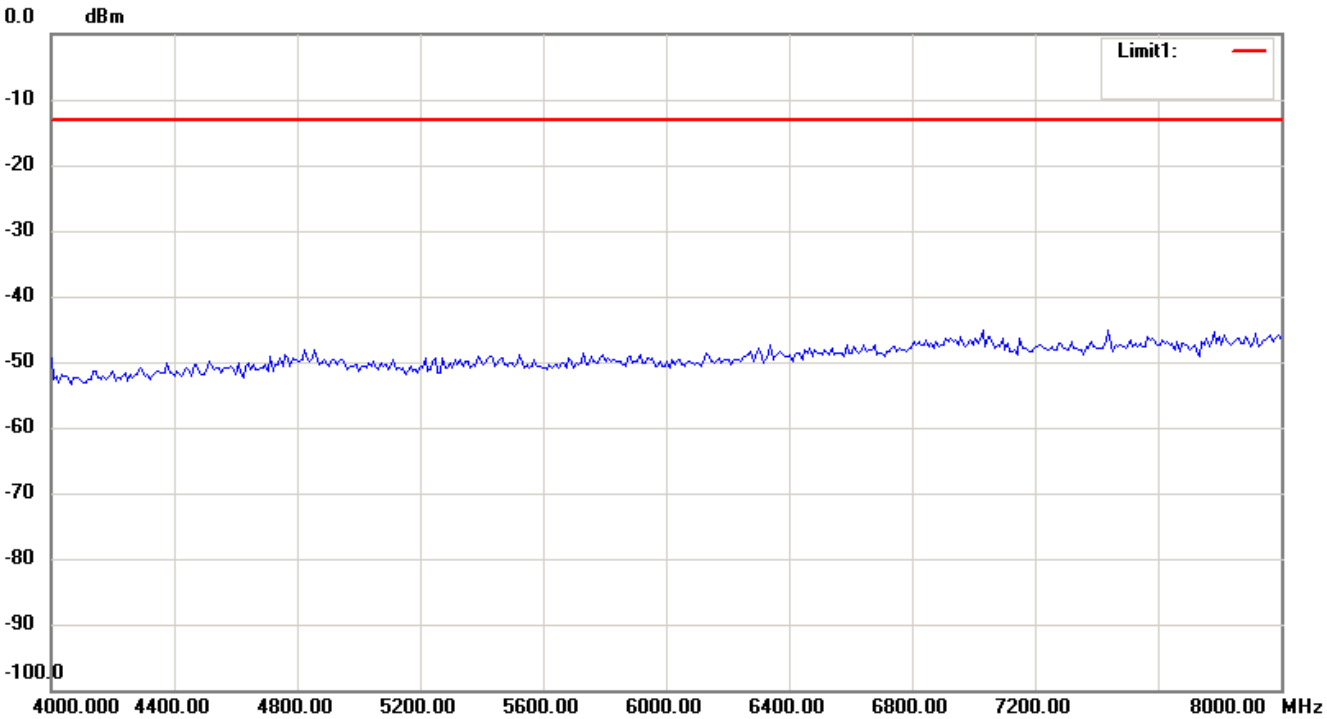
Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B





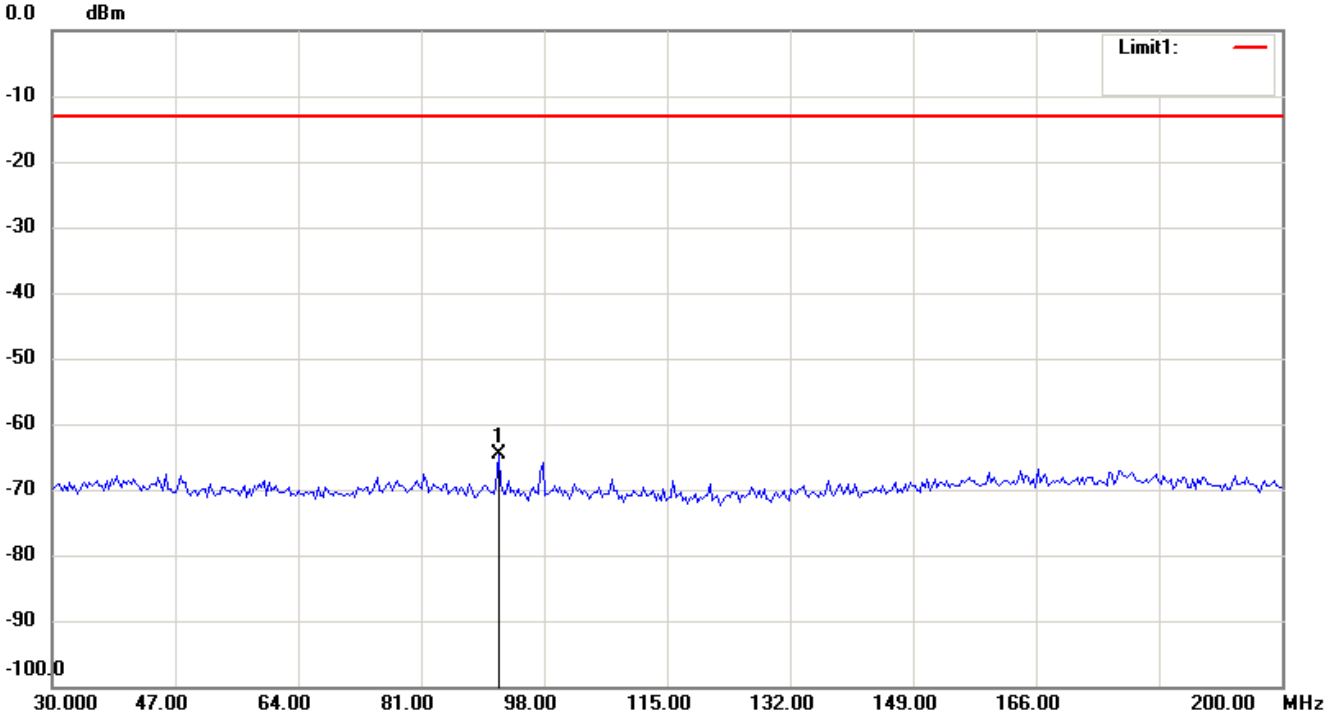
Note:

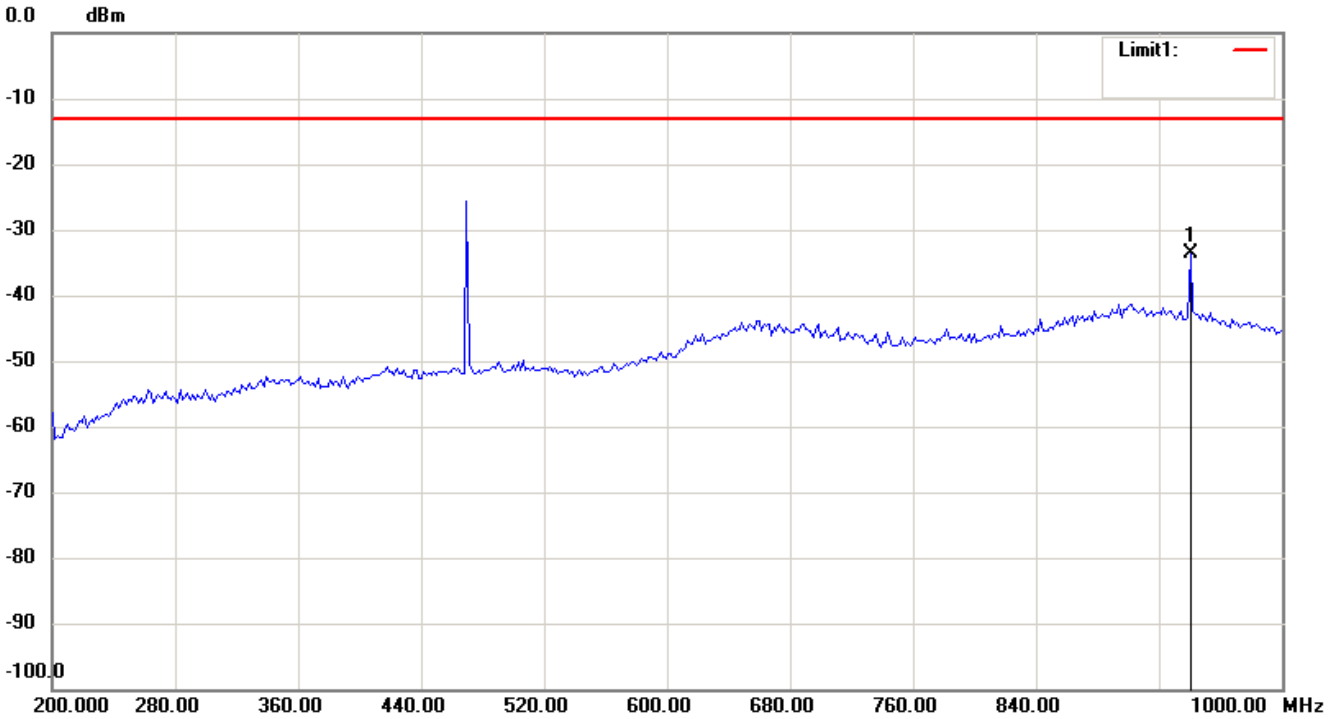
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

25 kHz-469.975 MHz

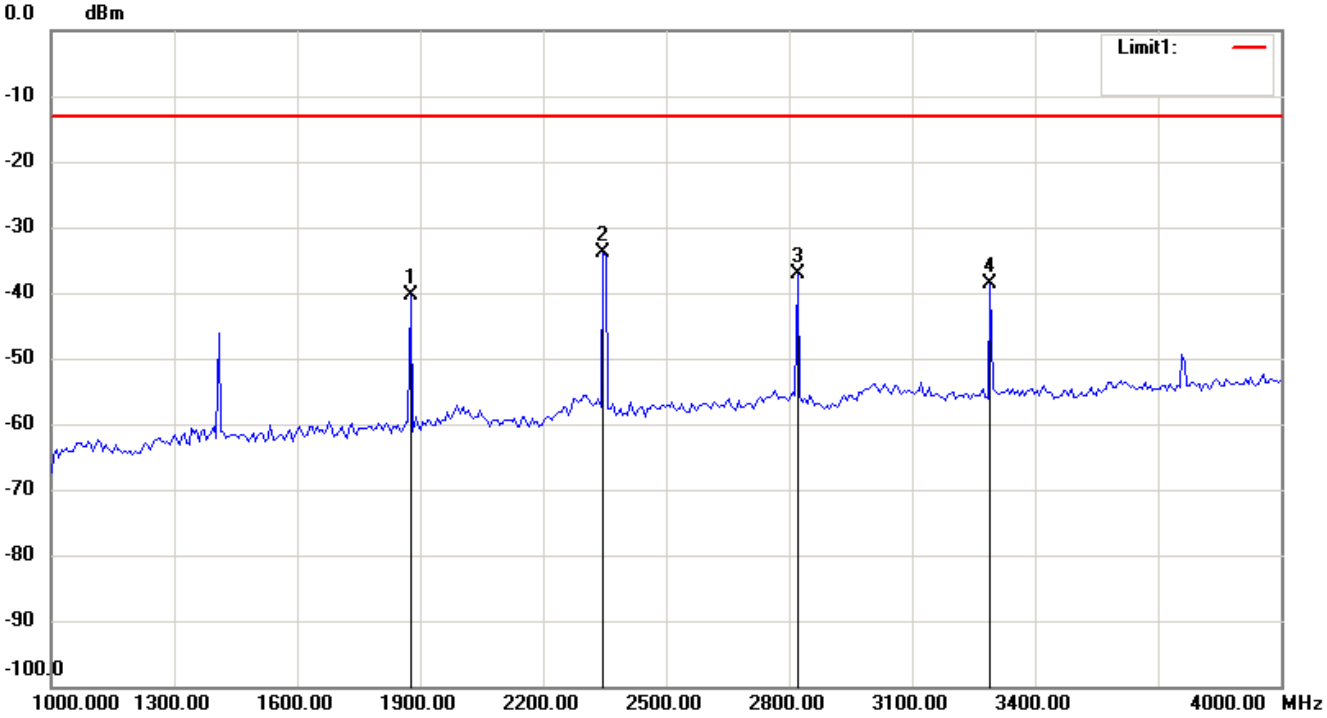
Antenna Polarization H

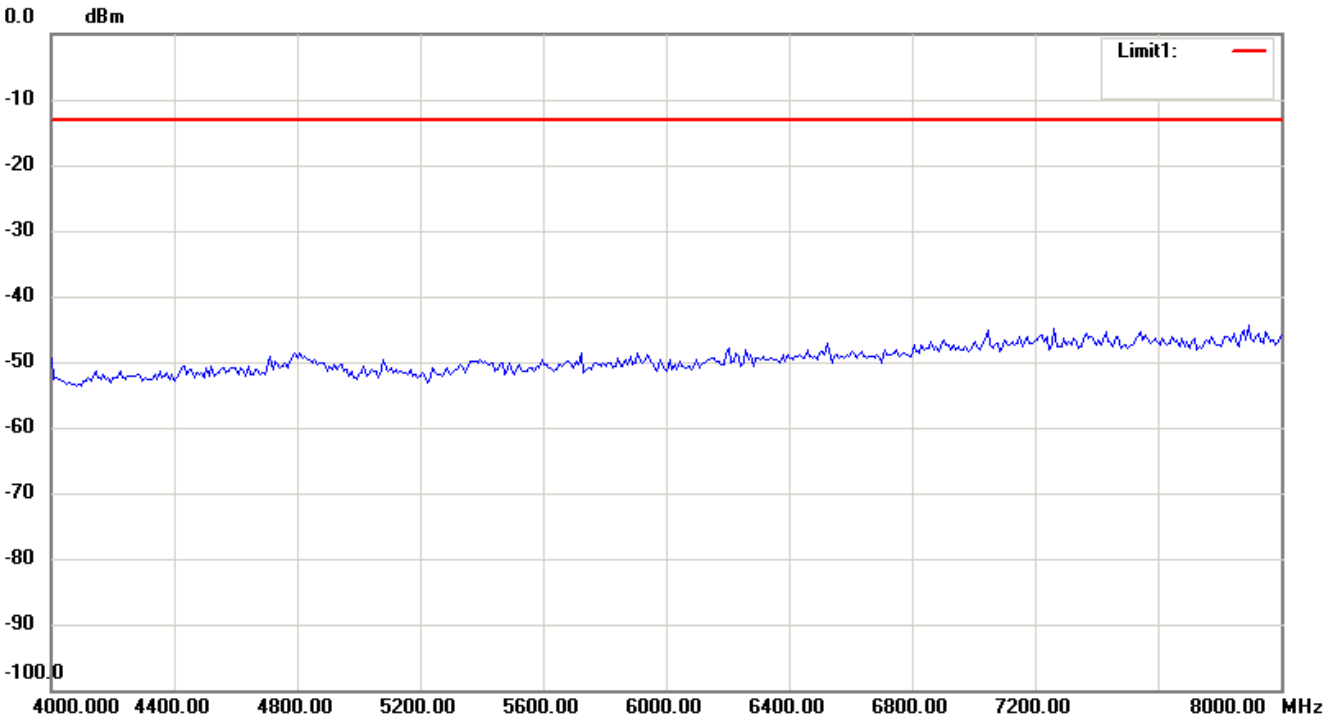




Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**



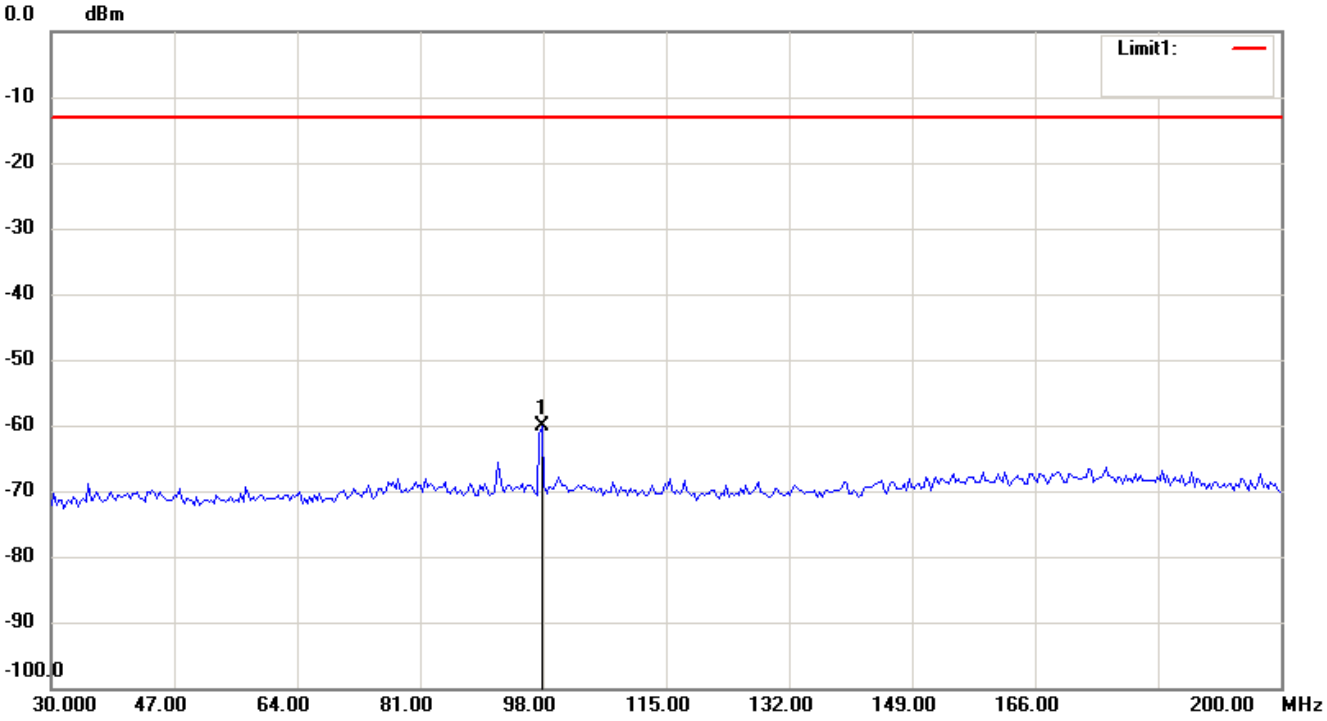


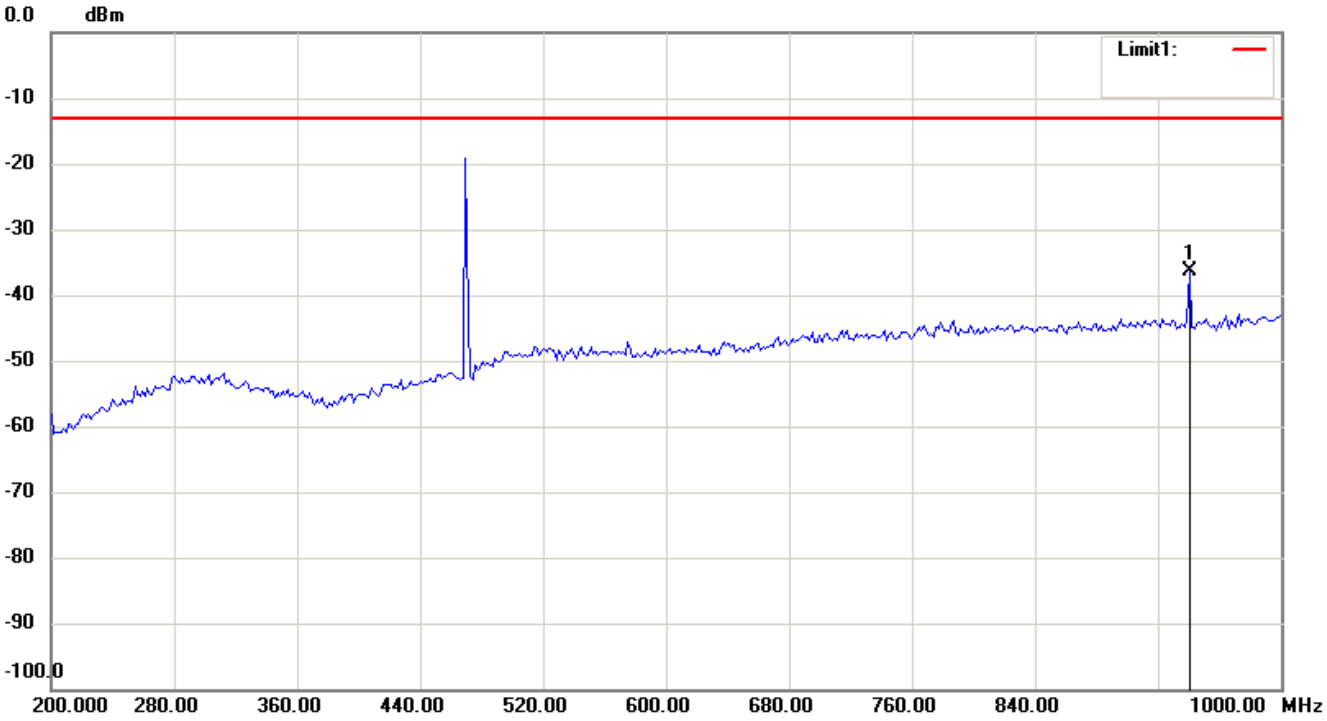
Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

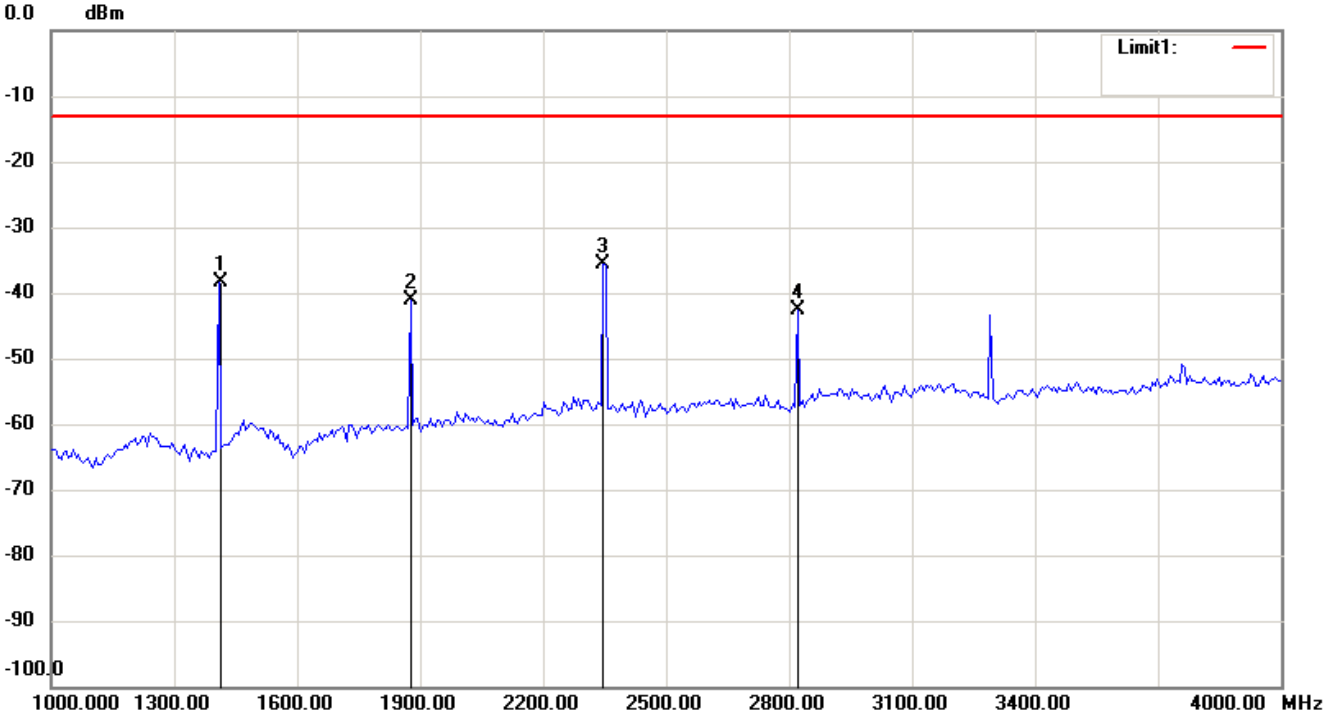
Antenna Polarization V

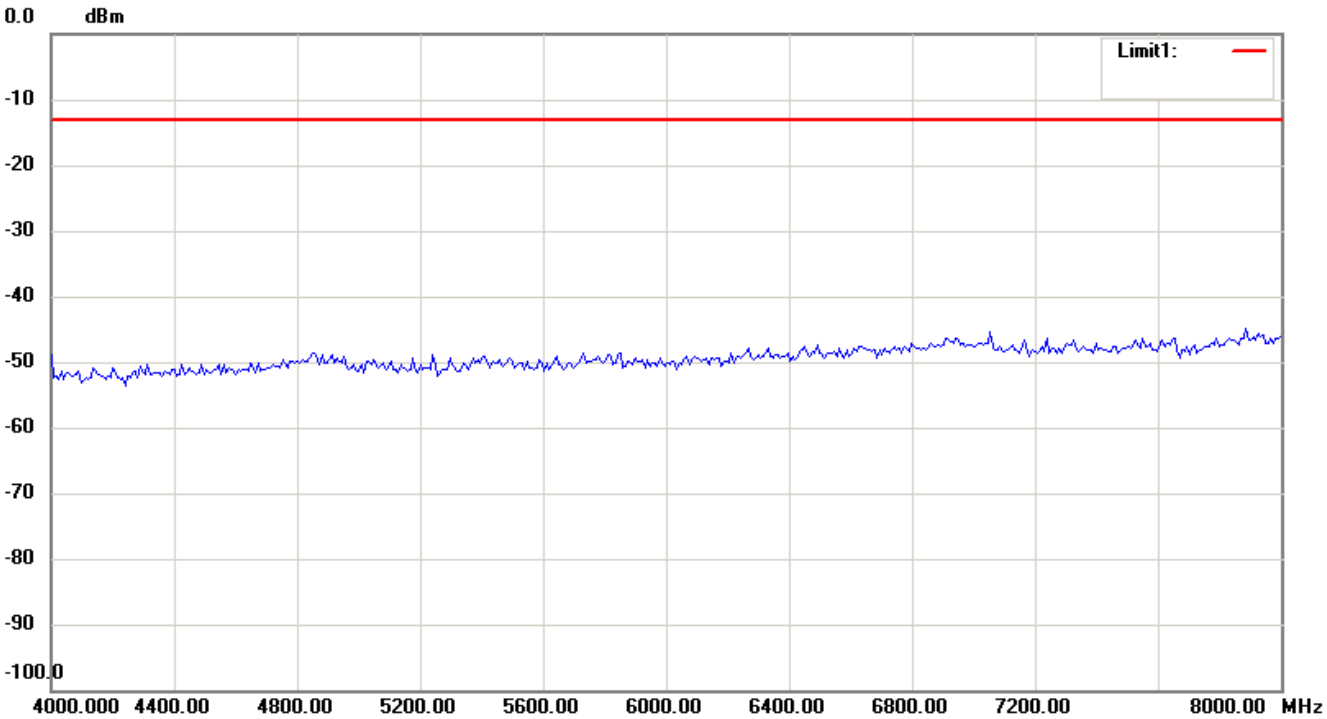




Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**



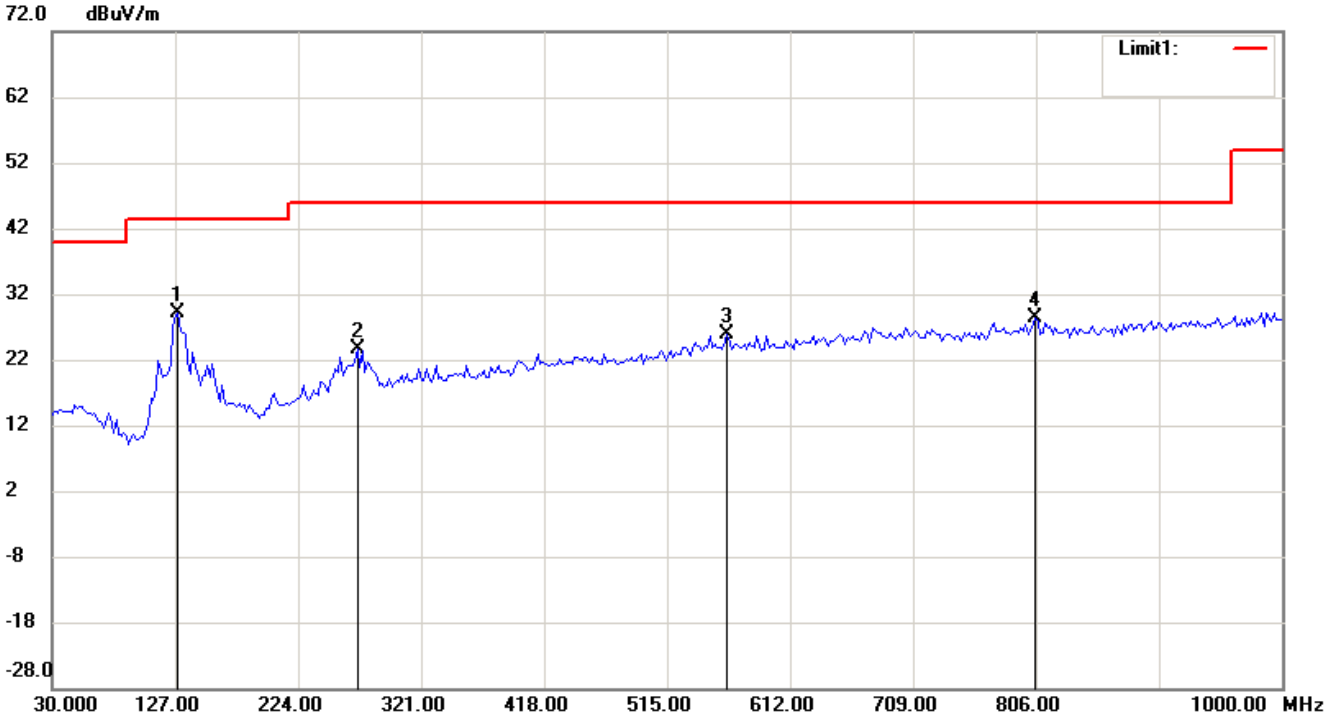


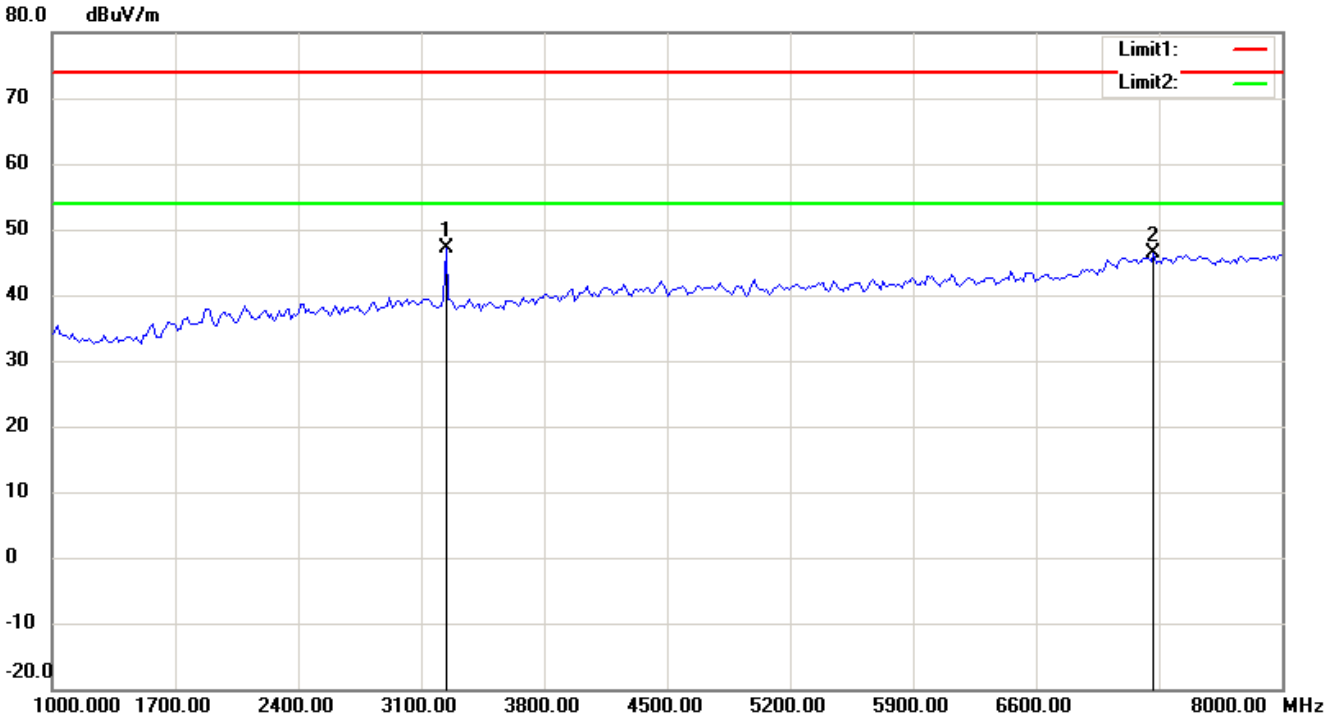
Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

Radiated Spurious Emission-RX
12.5 kHz-406.125 MHz
Antenna Polarization H



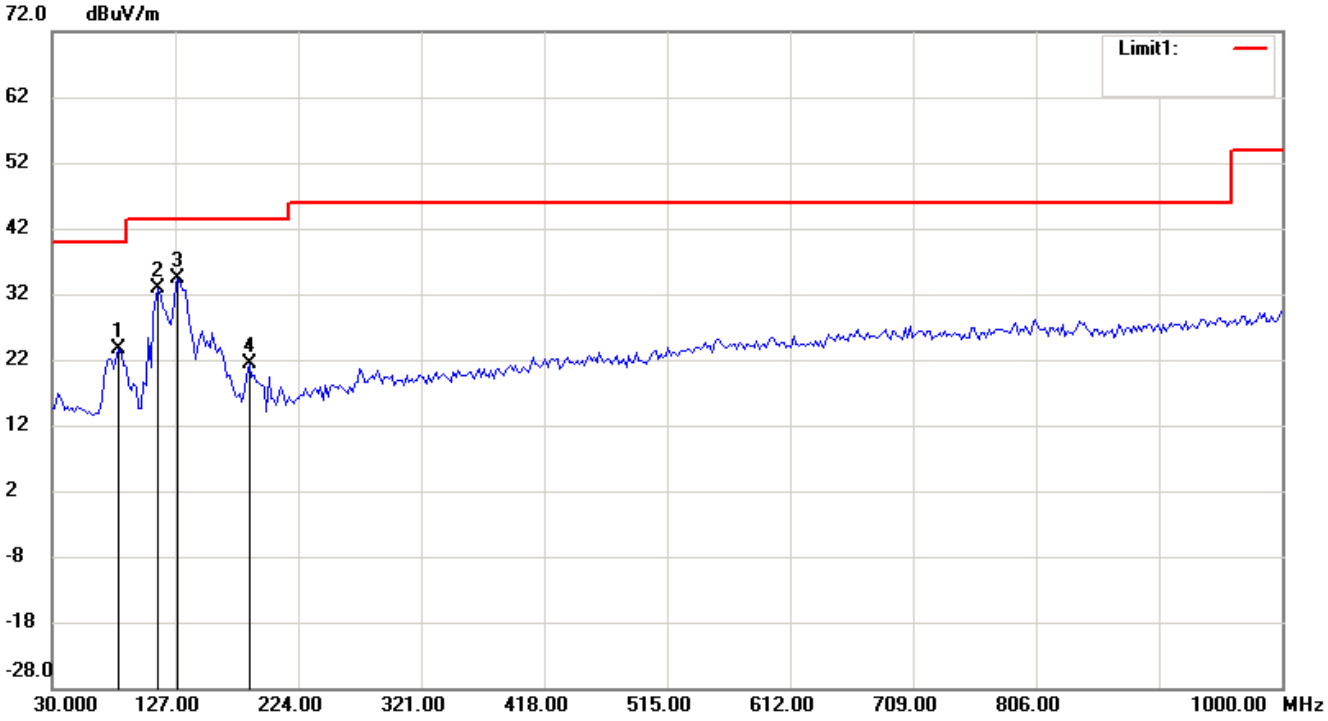


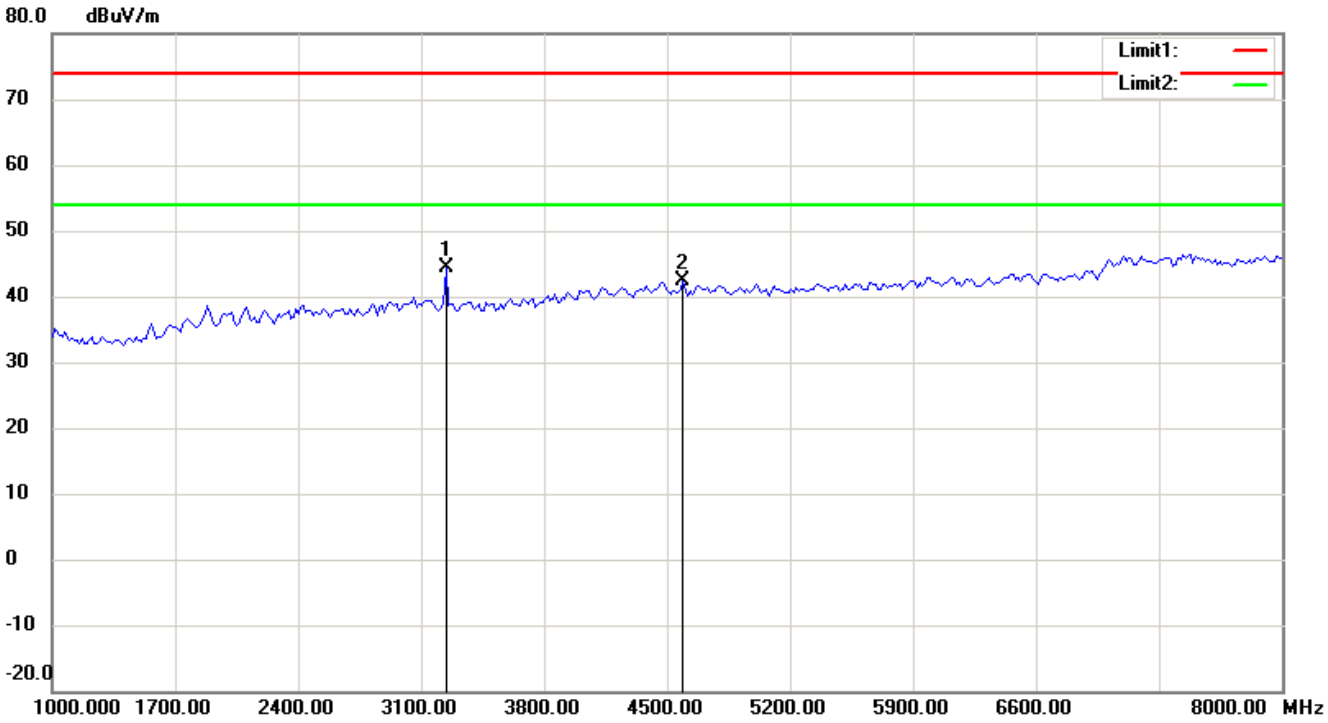
Note: Up line: PK limit Down line: AVE limit

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

Antenna Polarization V





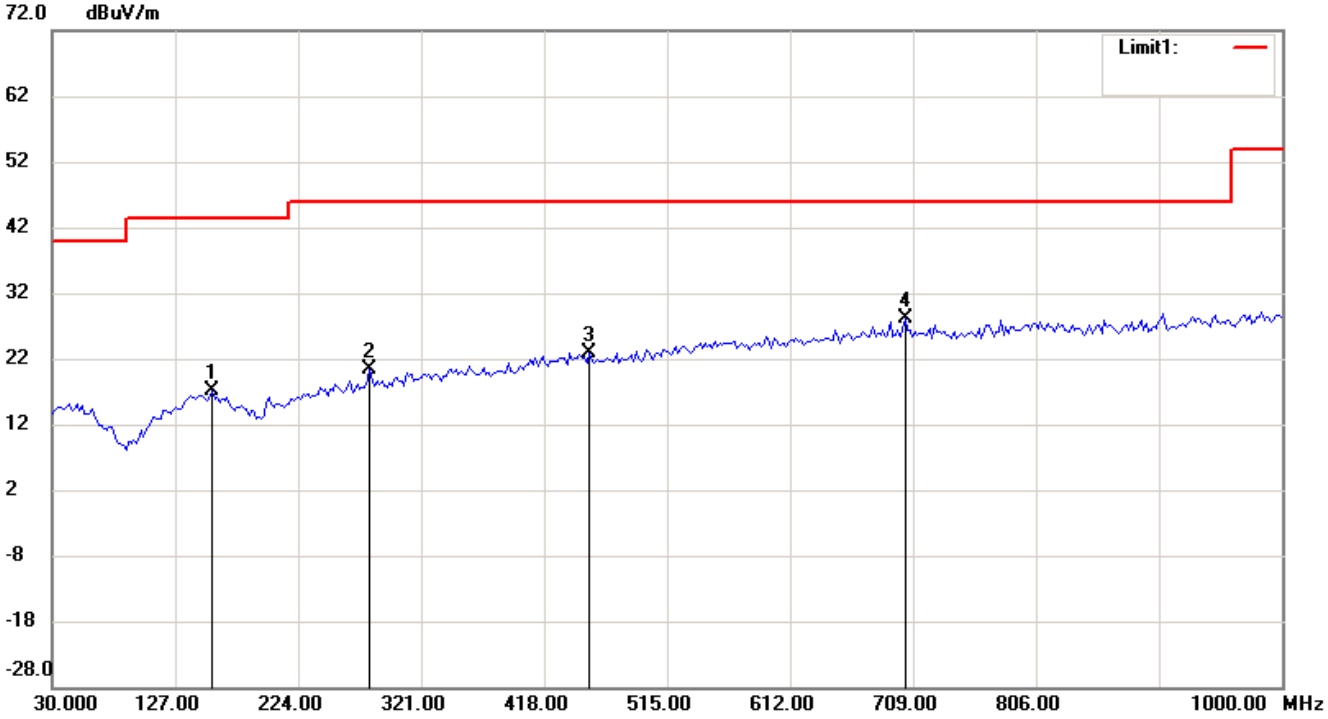
Note: Up line: PK limit Down line: AVE limit

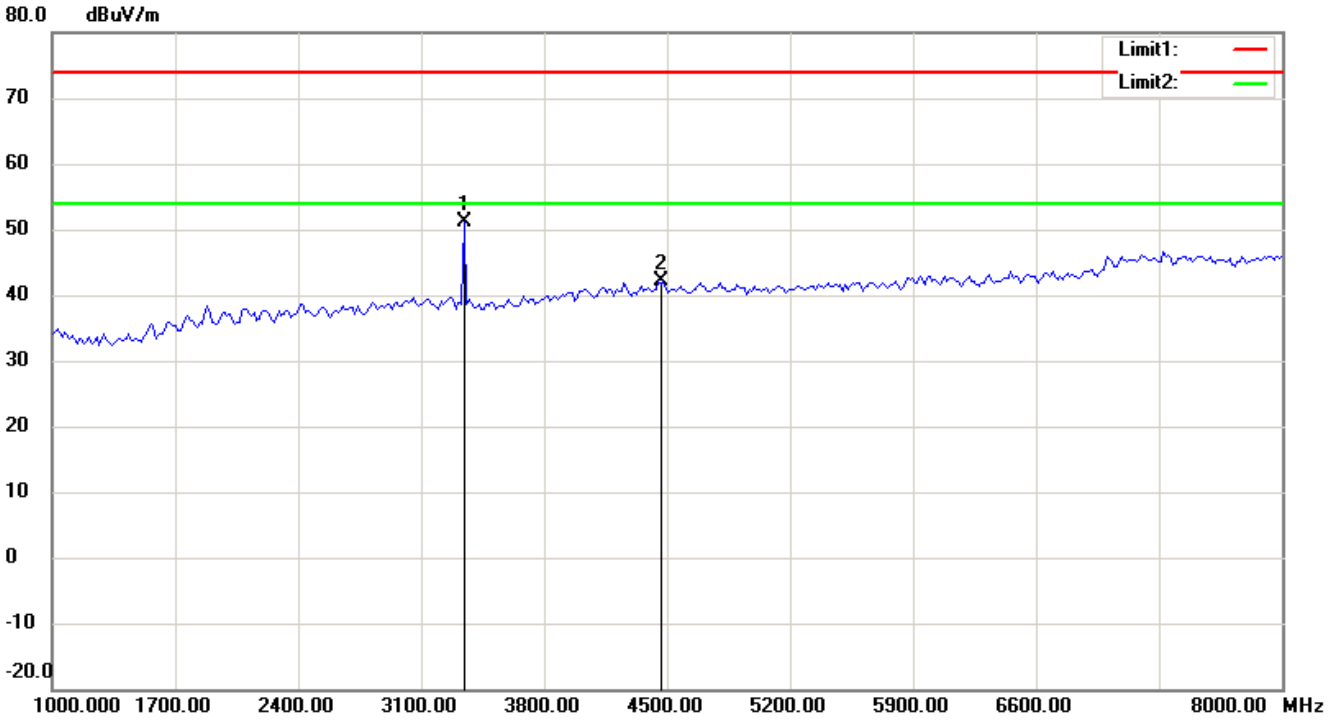
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

12.5 kHz-418 MHz

Antenna Polarization H



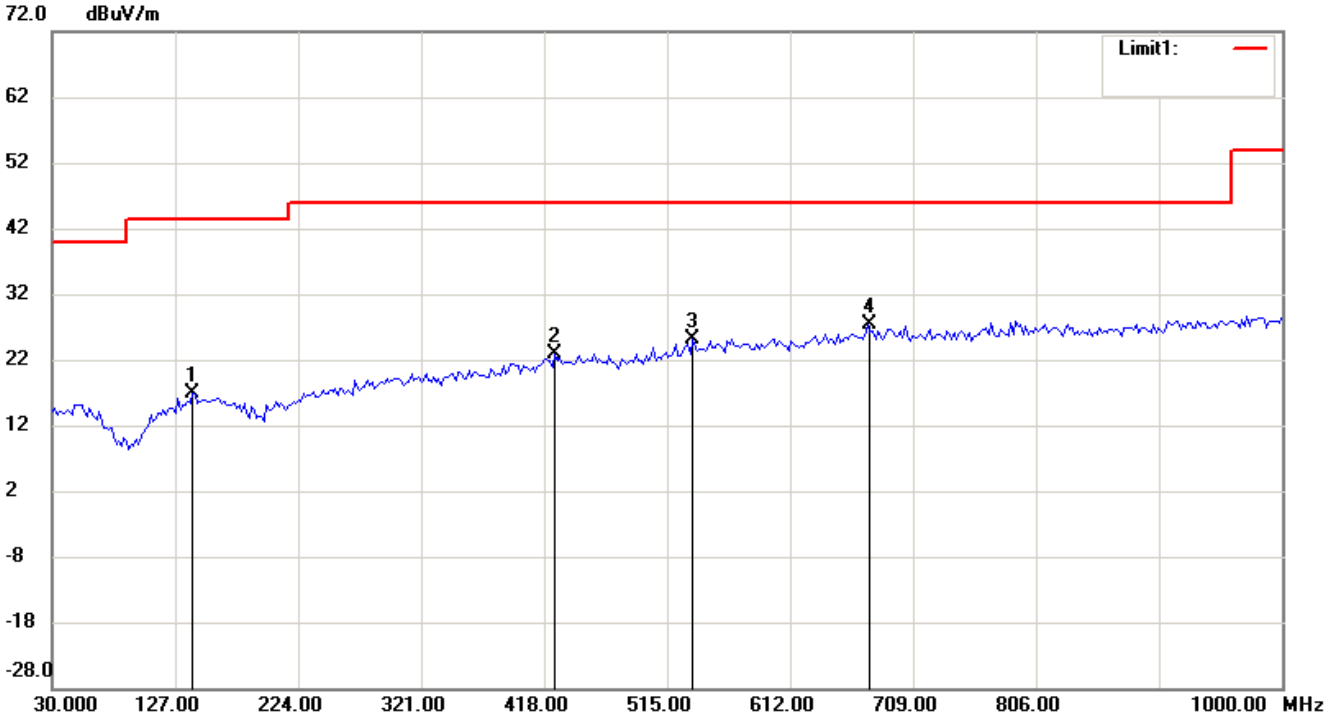


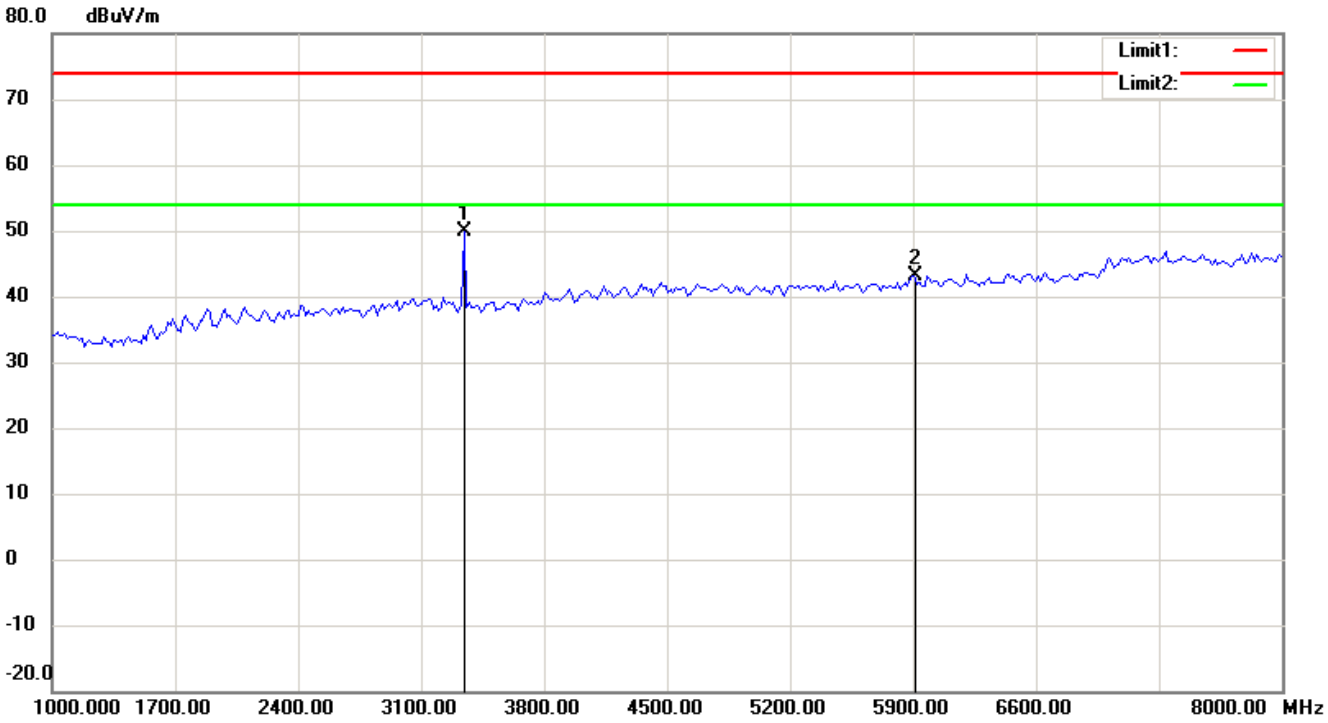
Note: Up line: PK limit Down line: AVE limit

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

Antenna Polarization V





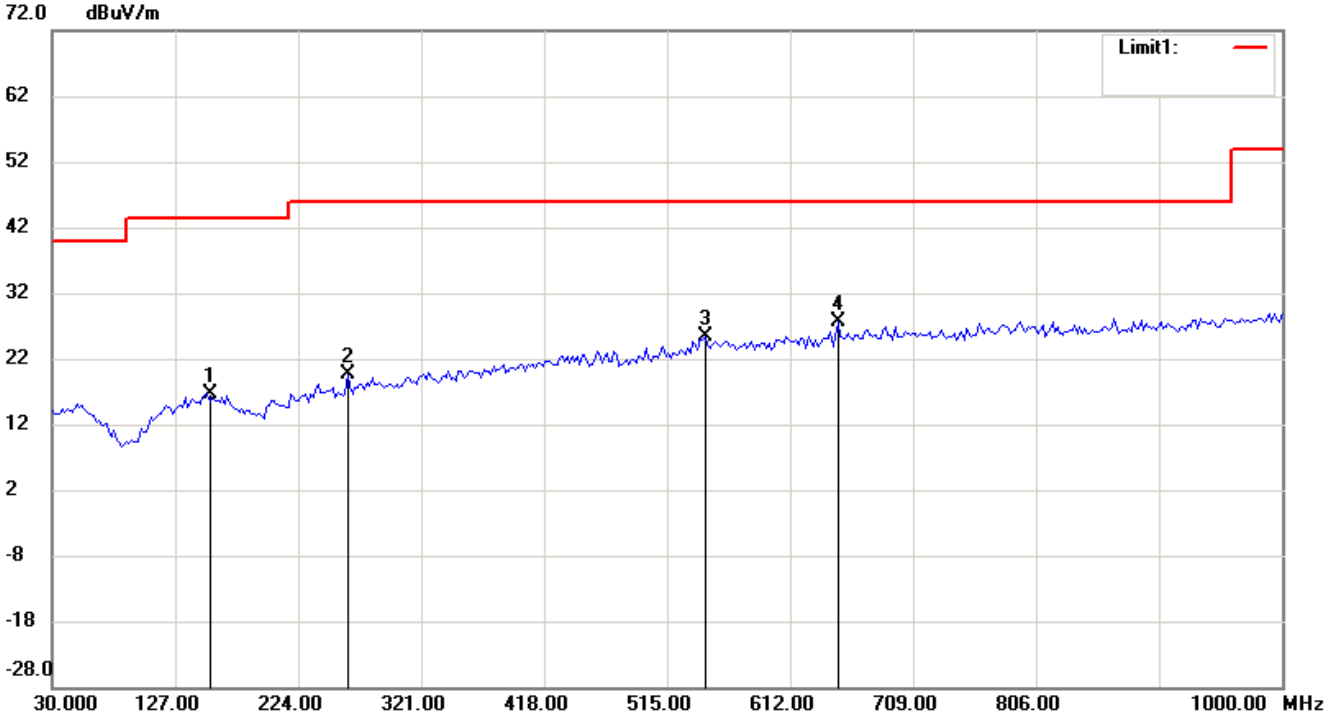
Note: Up line: PK limit Down line: AVE limit

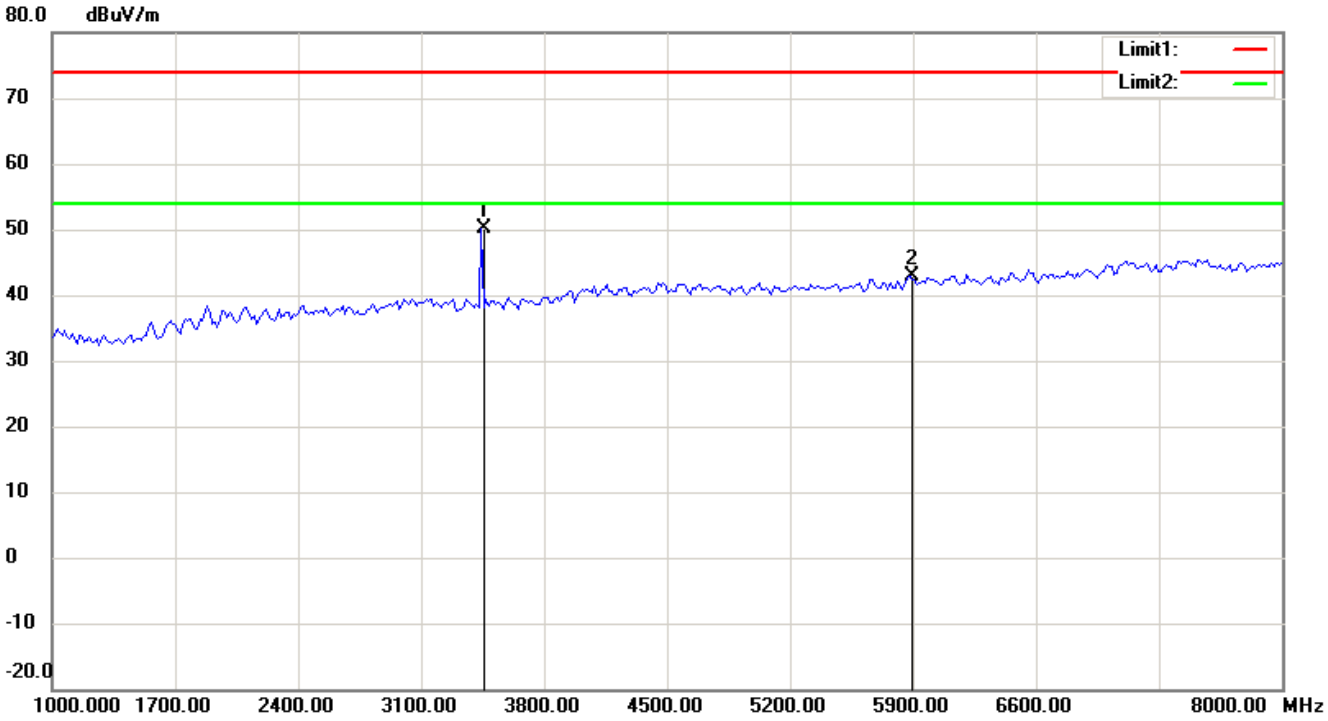
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

12.5 kHz-429.975 MHz

Antenna Polarization H



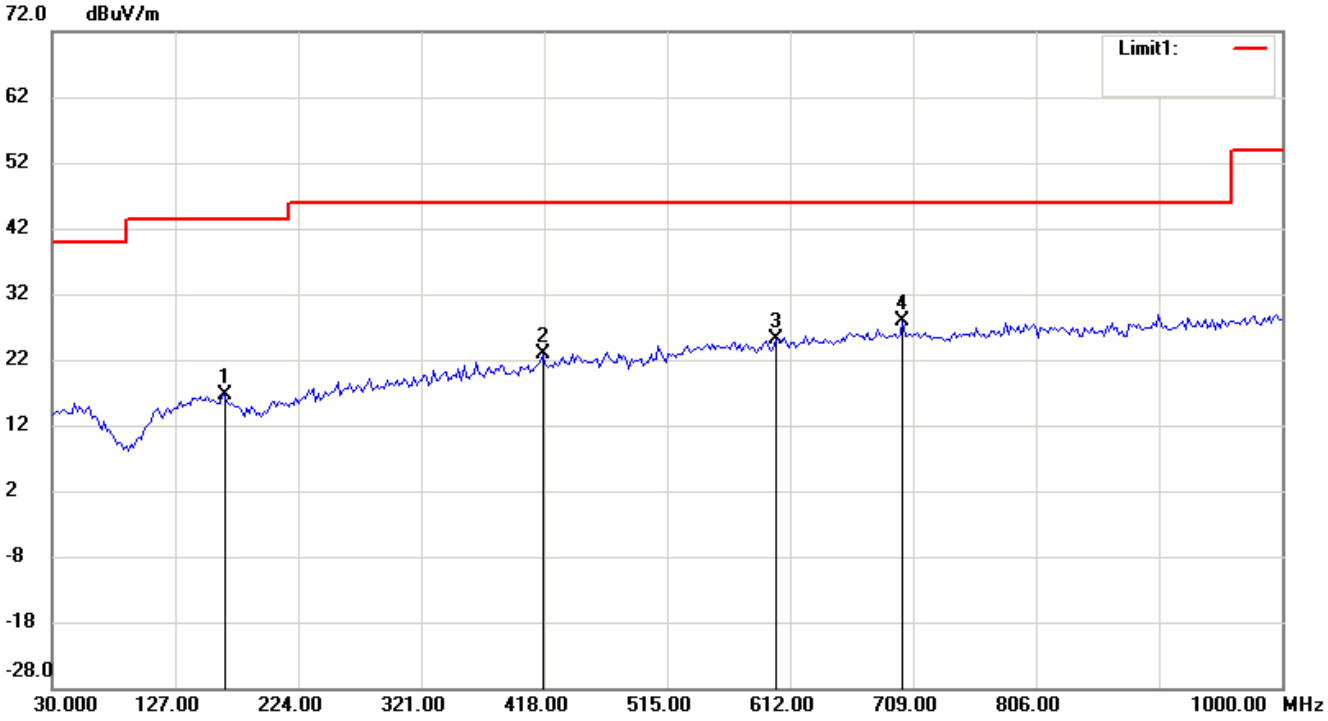


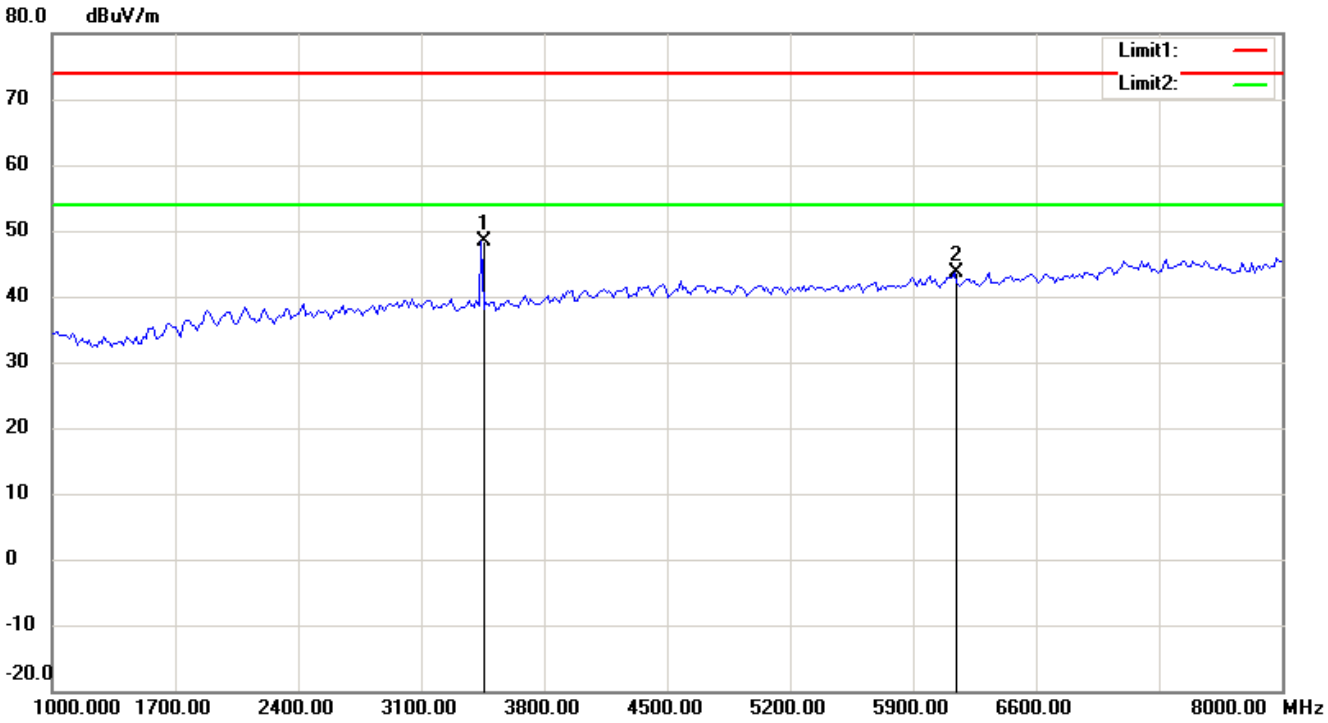
Note: Up line: PK limit Down line: AVE limit

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

Antenna Polarization V





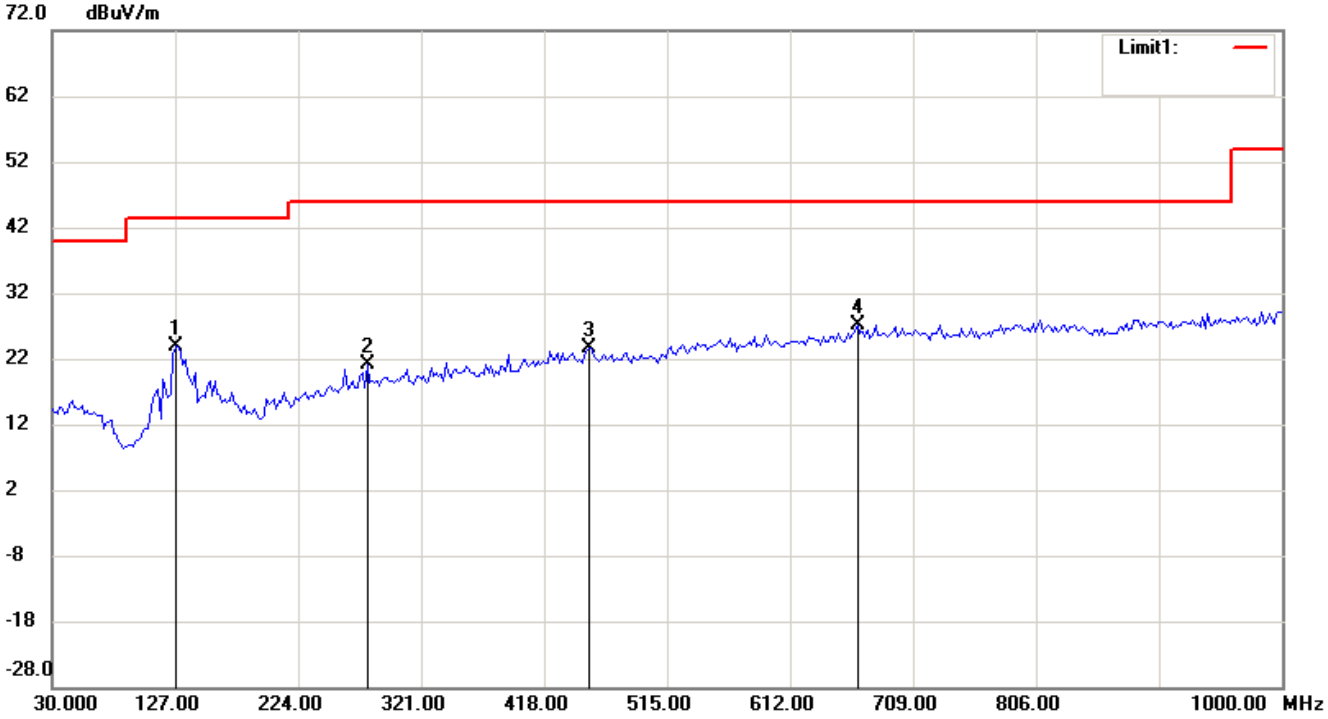
Note: Up line: PK limit Down line: AVE limit

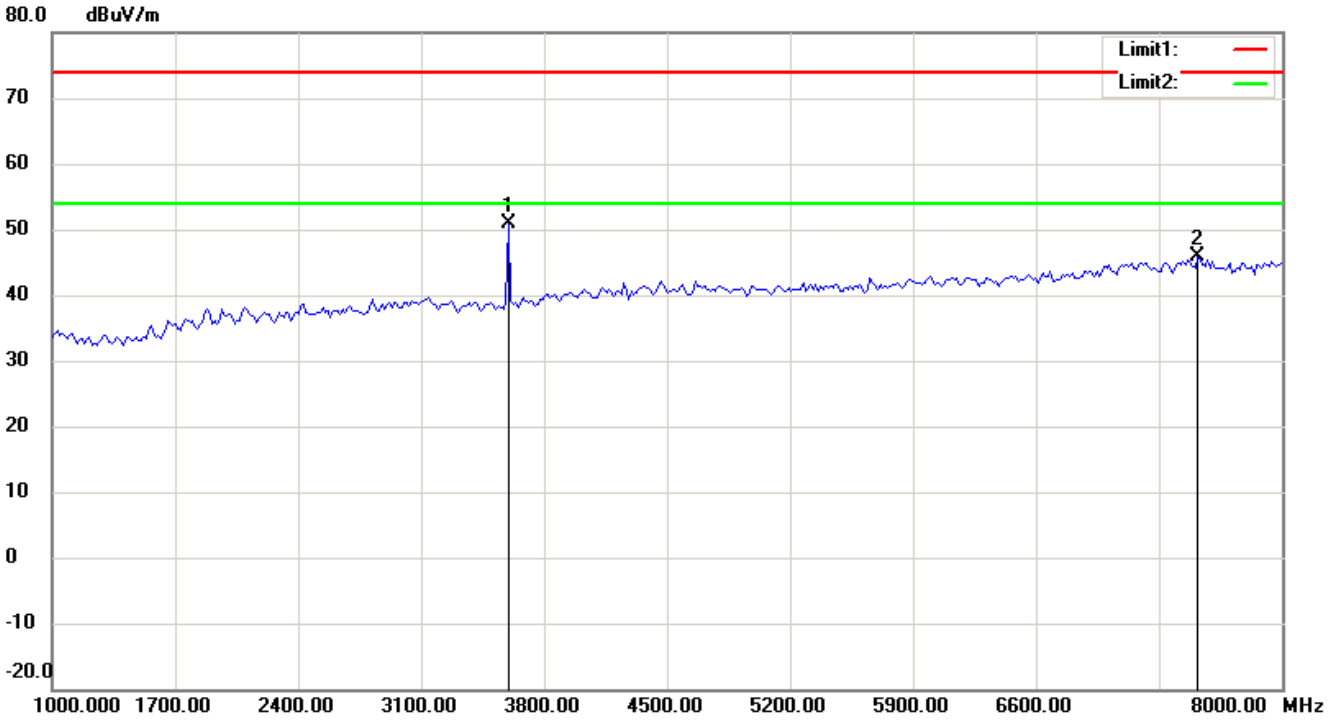
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

12.5 kHz-450.025MHz

Antenna Polarization H



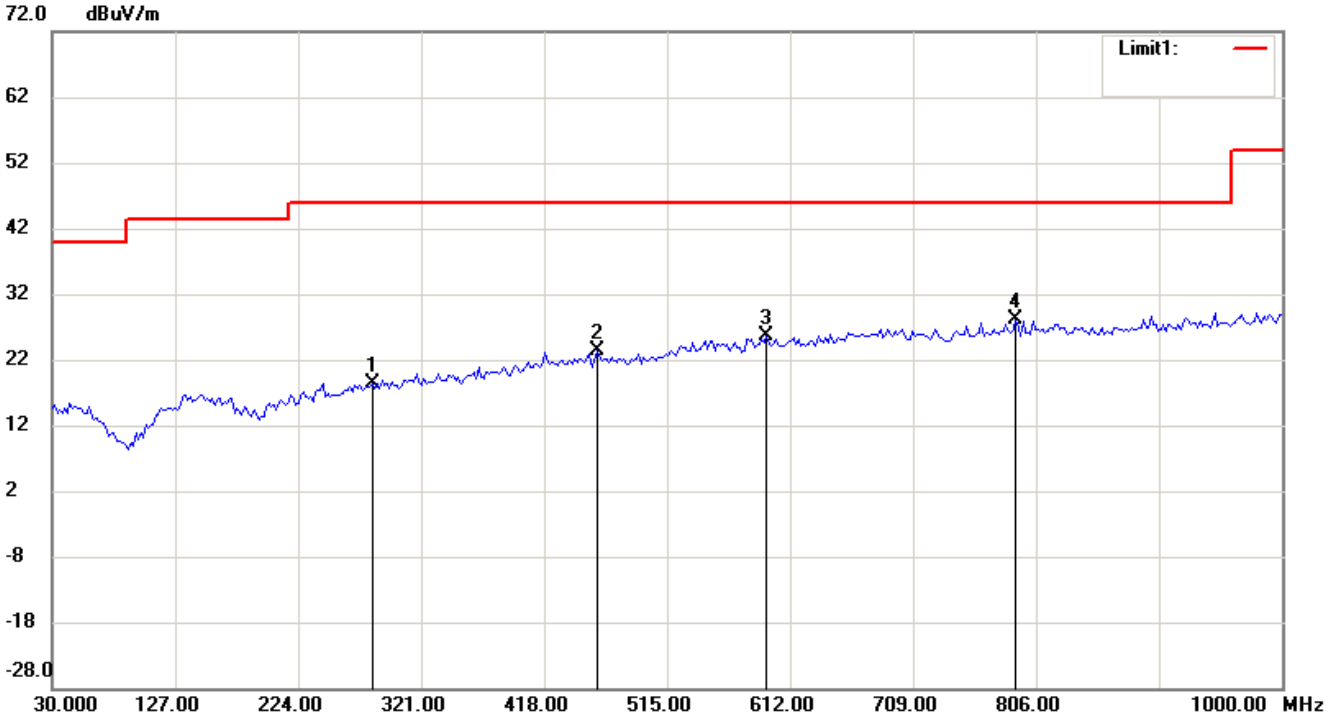


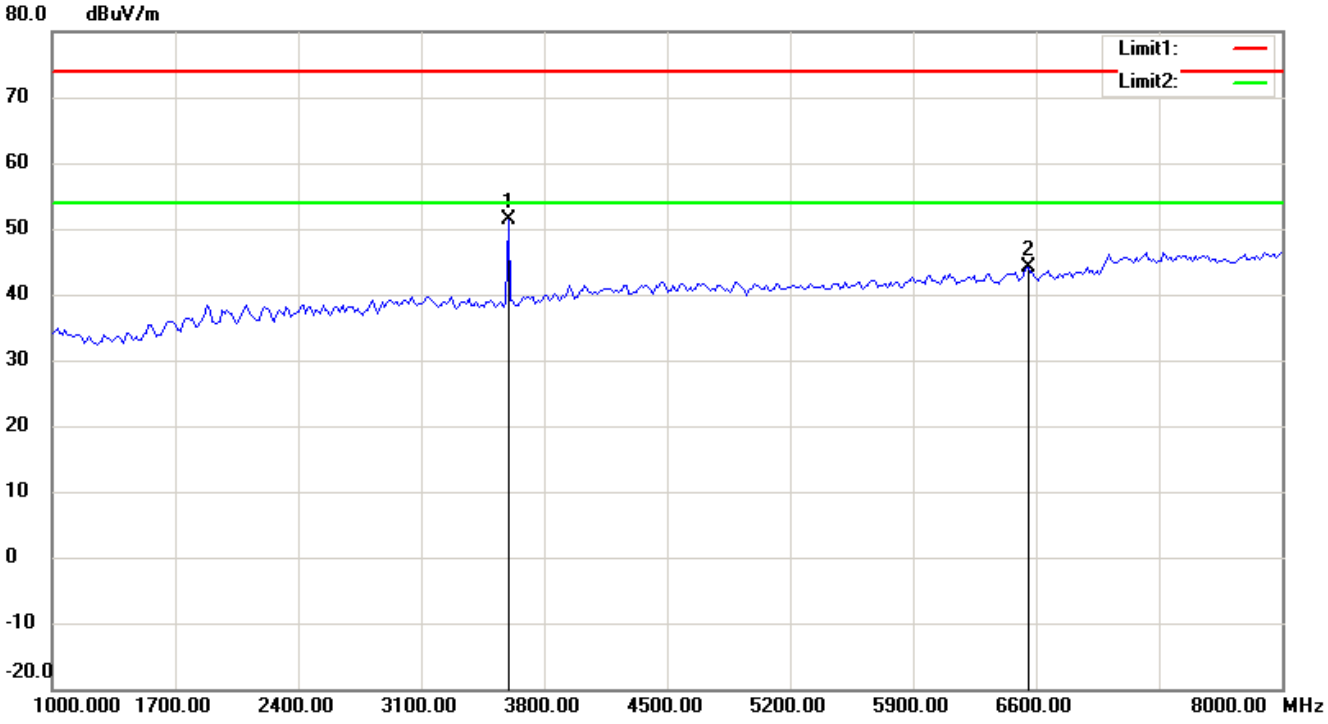
Note: Up line: PK limit Down line: AVE limit

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

Antenna Polarization V





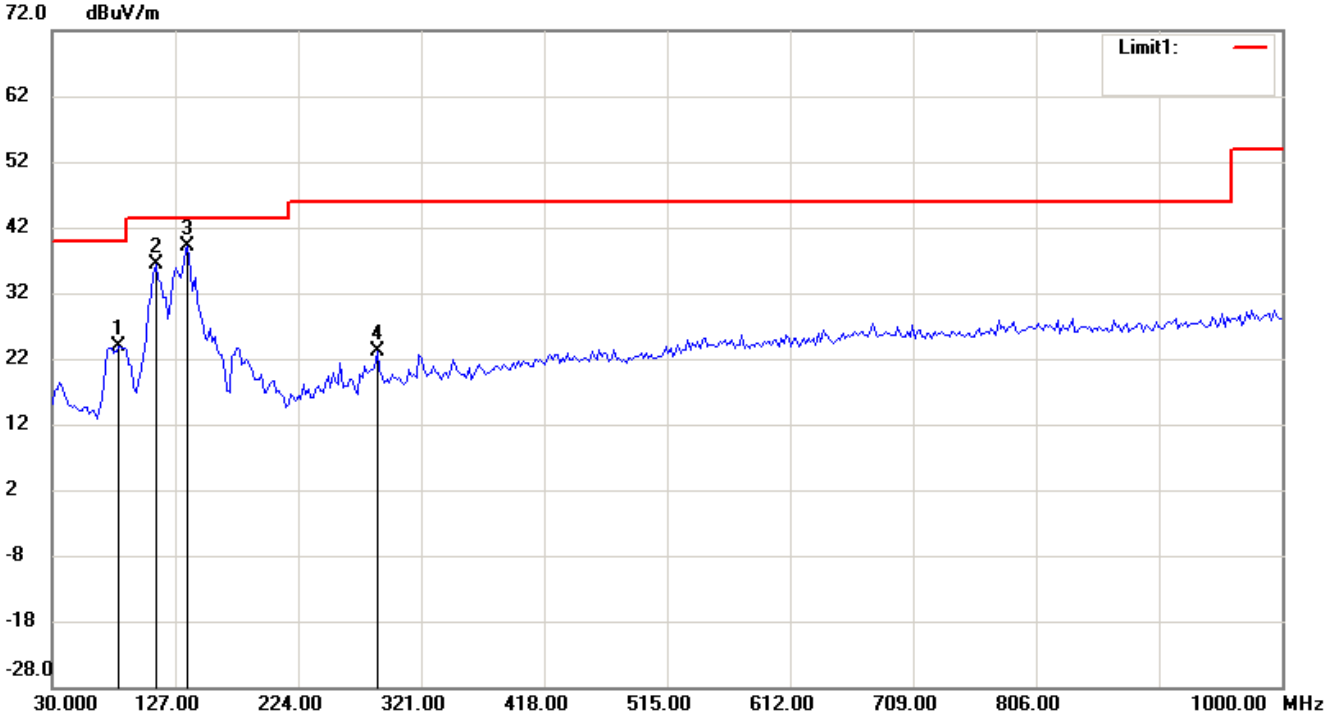
Note: Up line: PK limit Down line: AVE limit

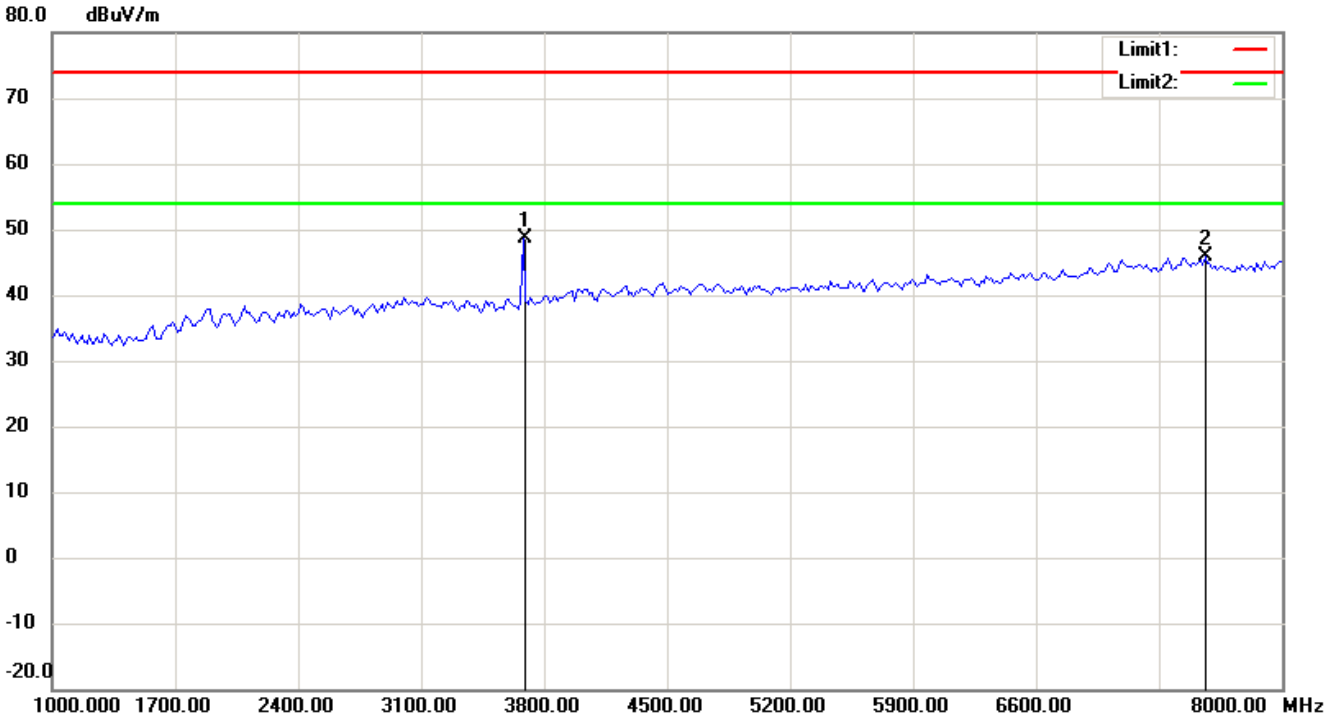
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

12.5 kHz-460 MHz

Antenna Polarization H



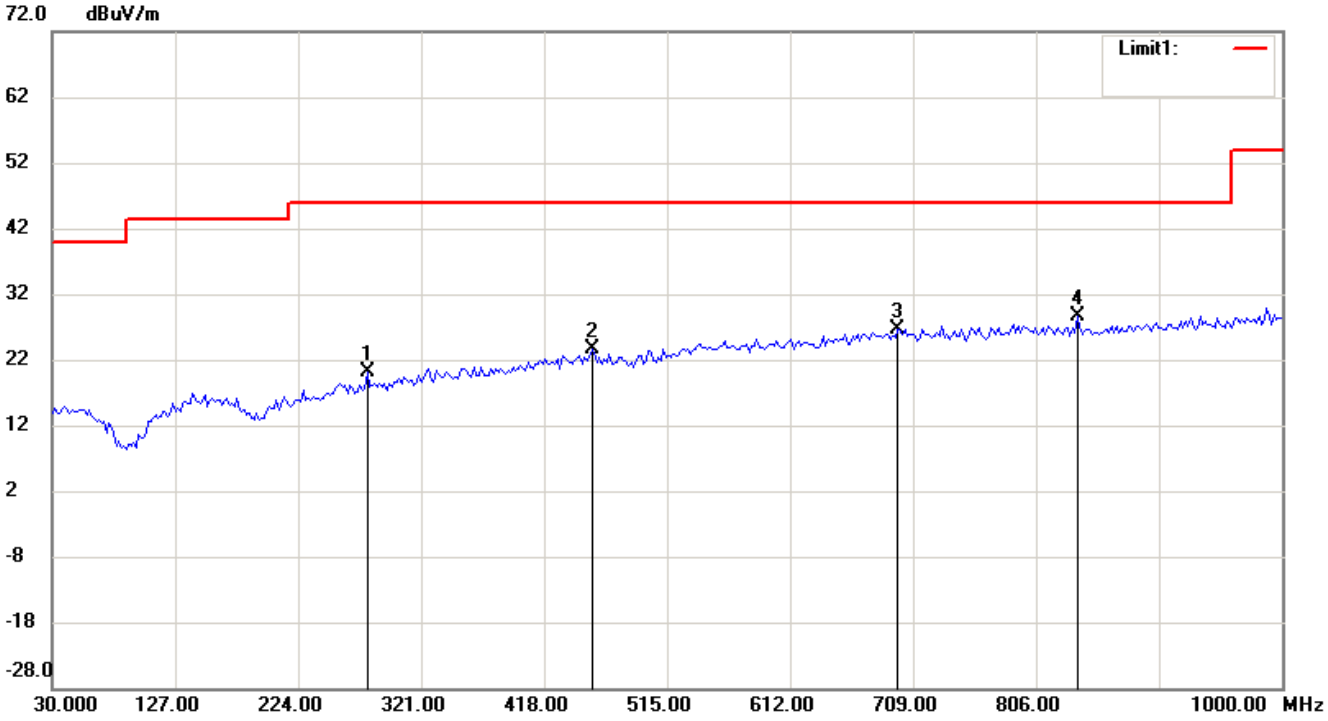


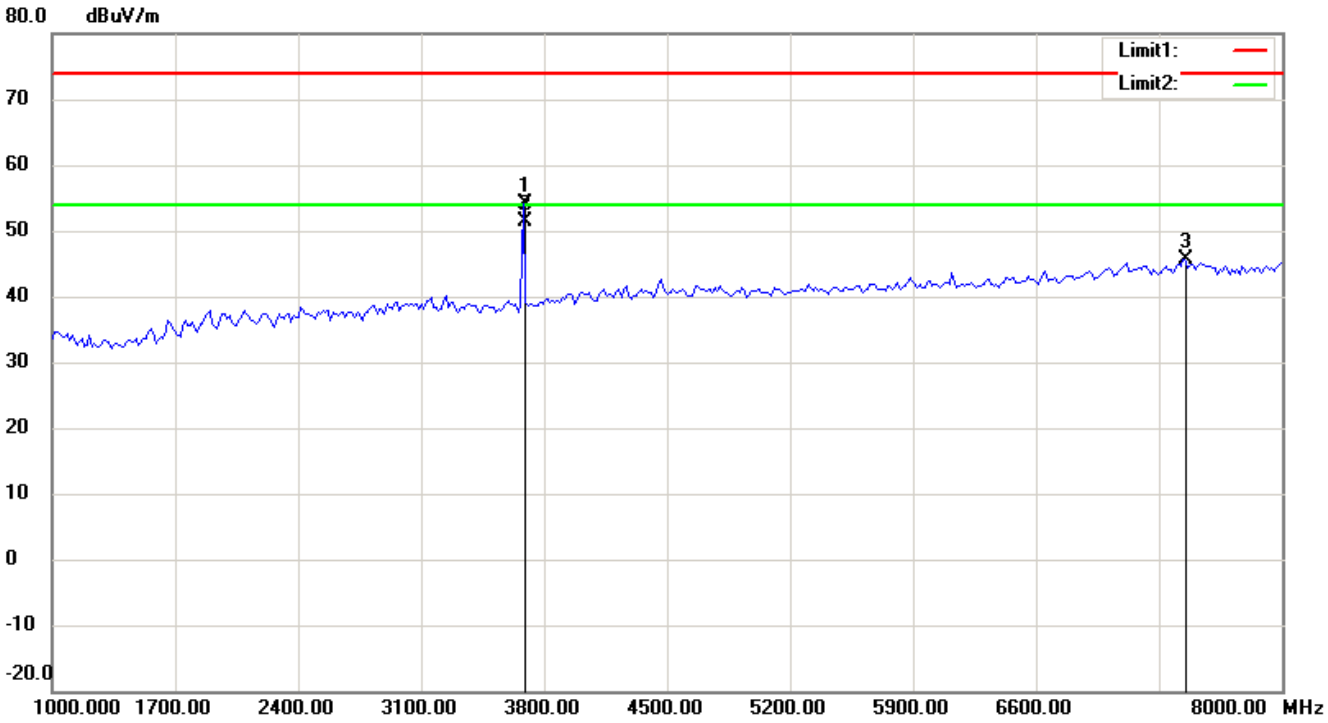
Note: Up line: PK limit Down line: AVE limit

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

Antenna Polarization V





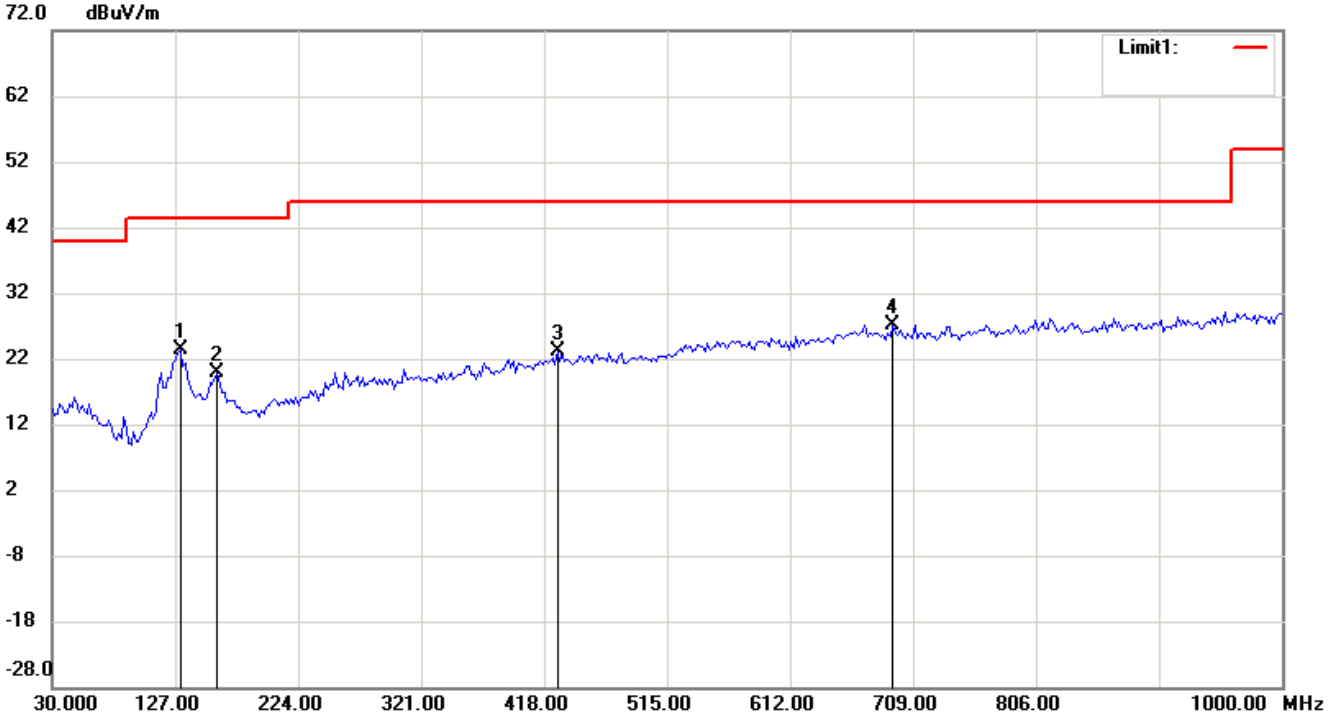
Note: Up line: PK limit Down line: AVE limit

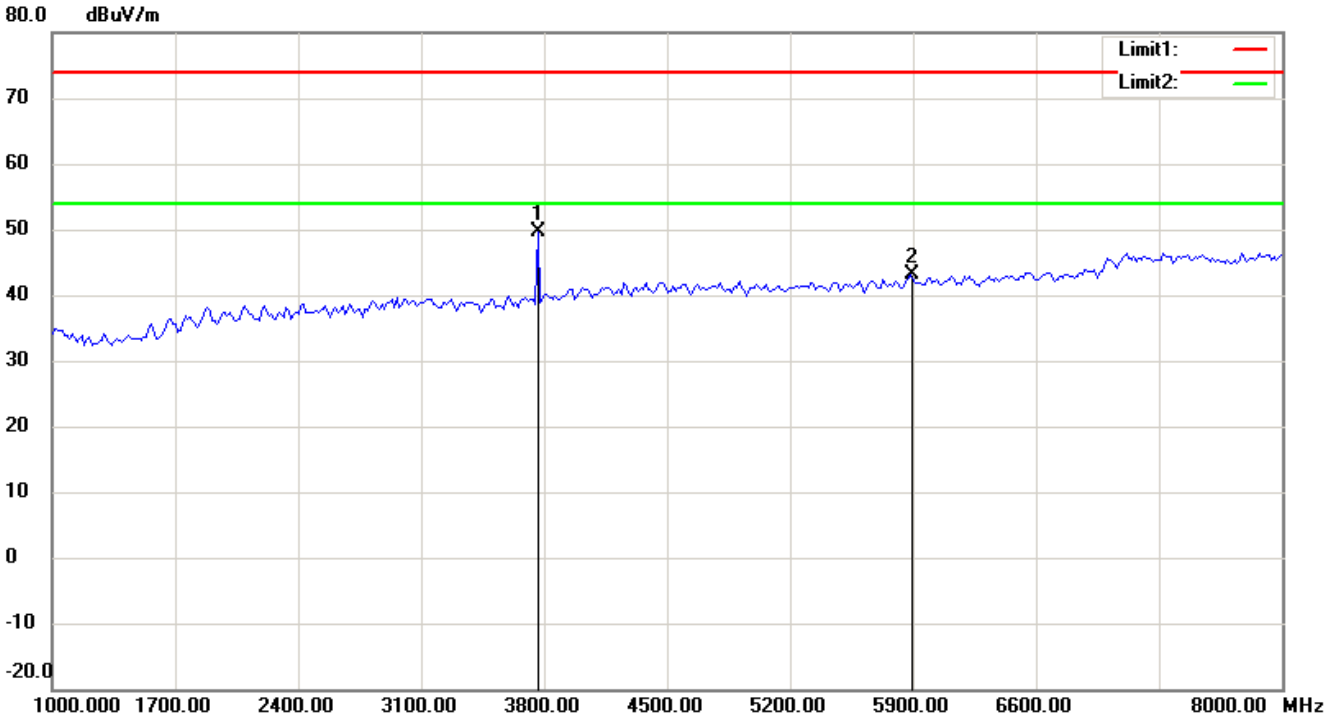
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

12.5 kHz-469.975 MHz

Antenna Polarization H



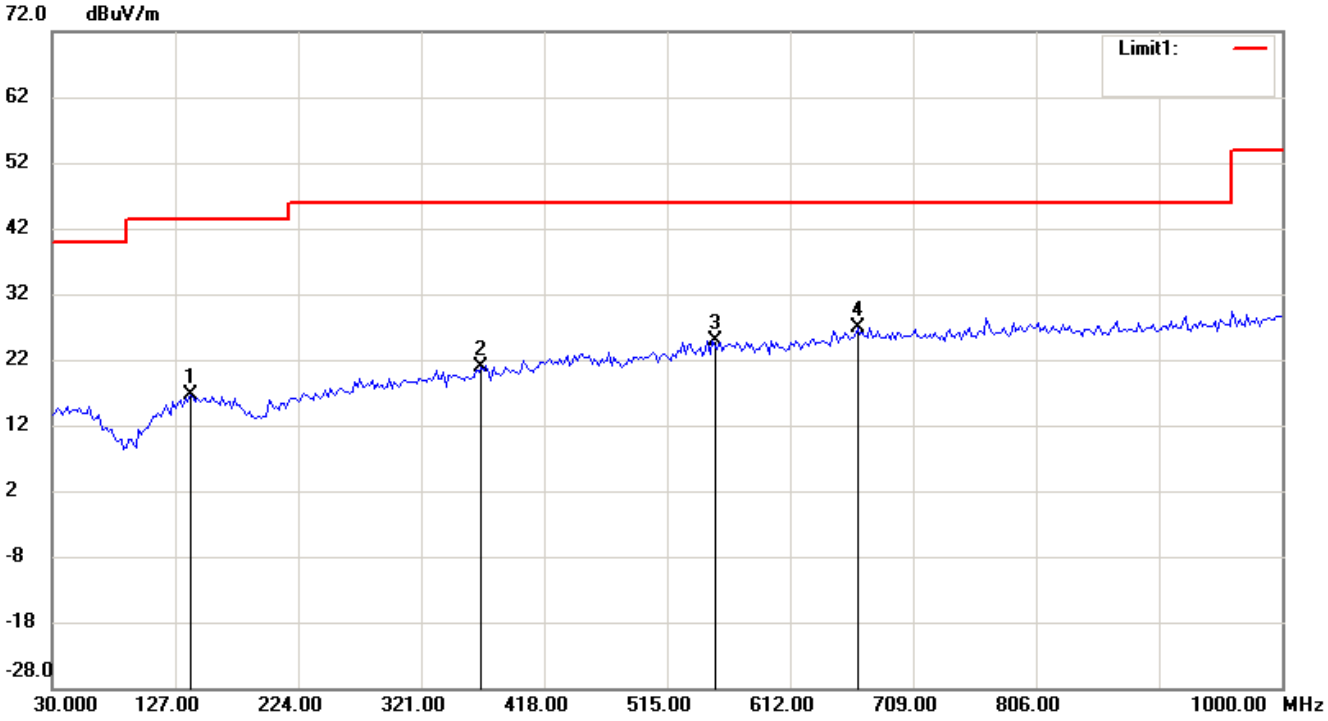


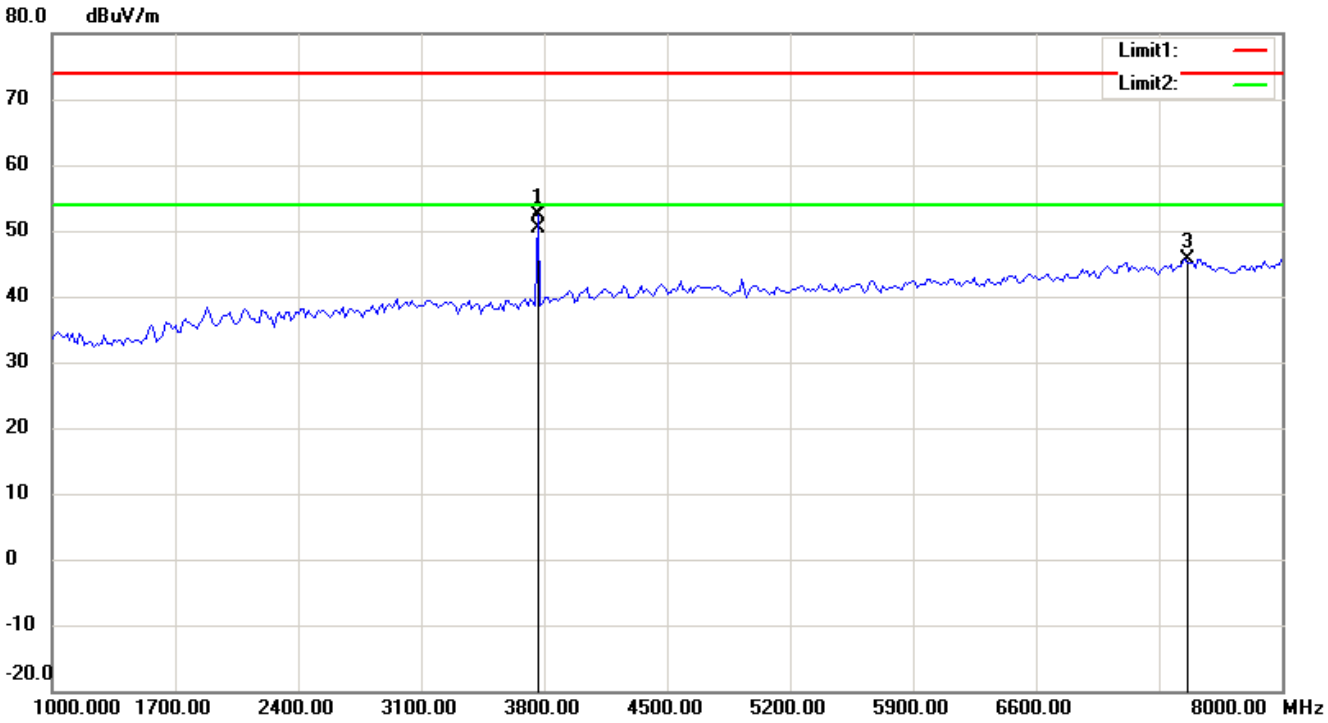
Note: Up line: PK limit Down line: AVE limit

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

Antenna Polarization V





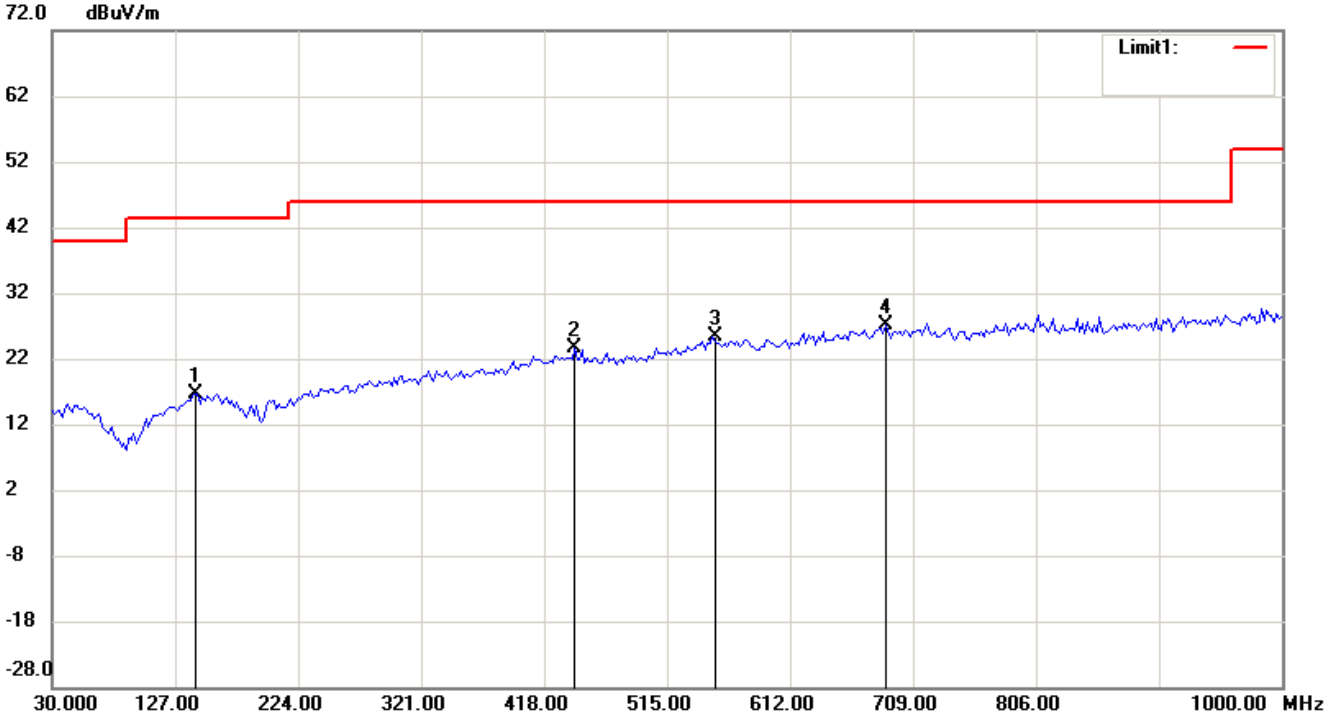
Note: Up line: PK limit Down line: AVE limit

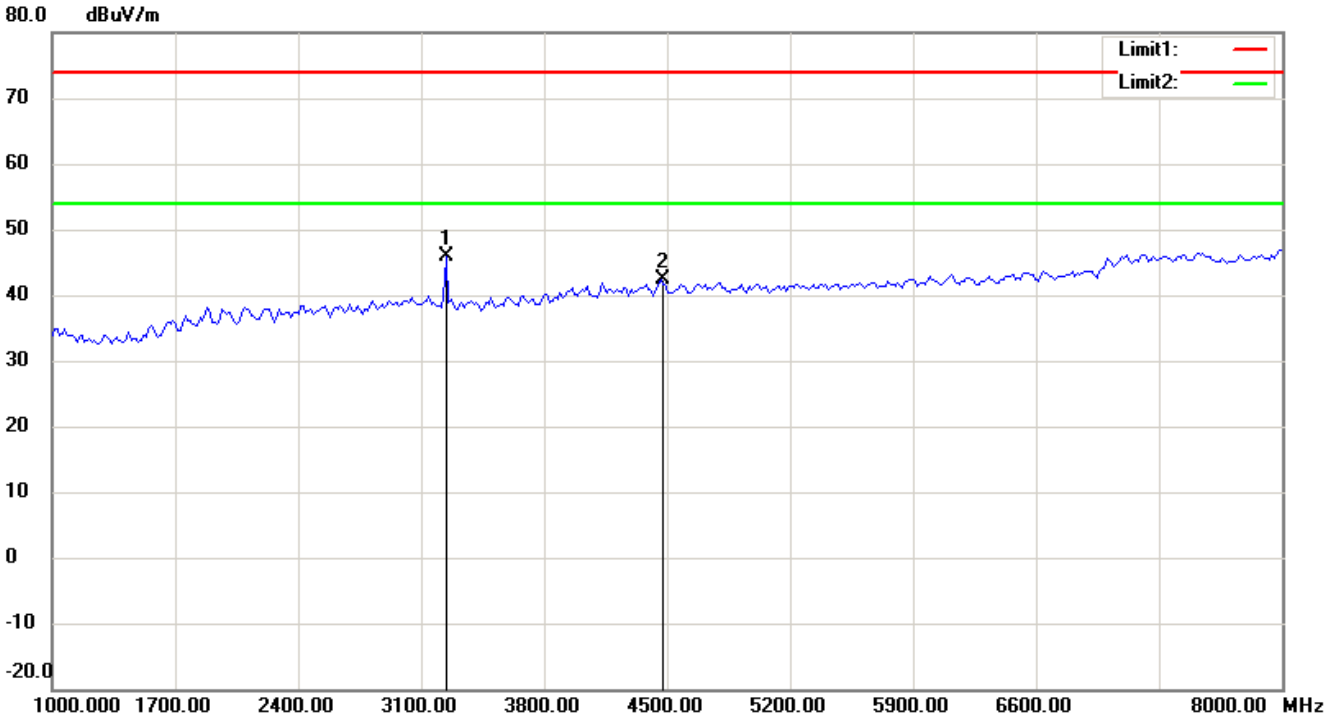
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

25 kHz-406.125 MHz

Antenna Polarization H



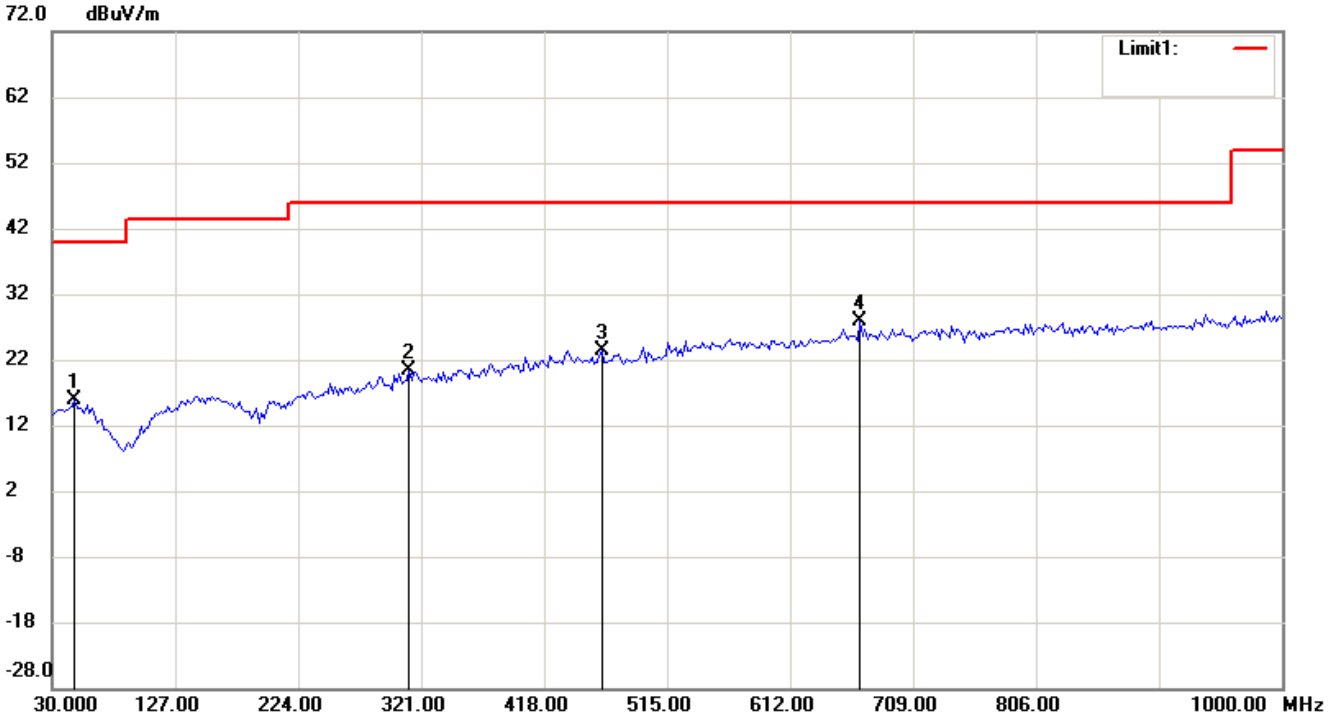


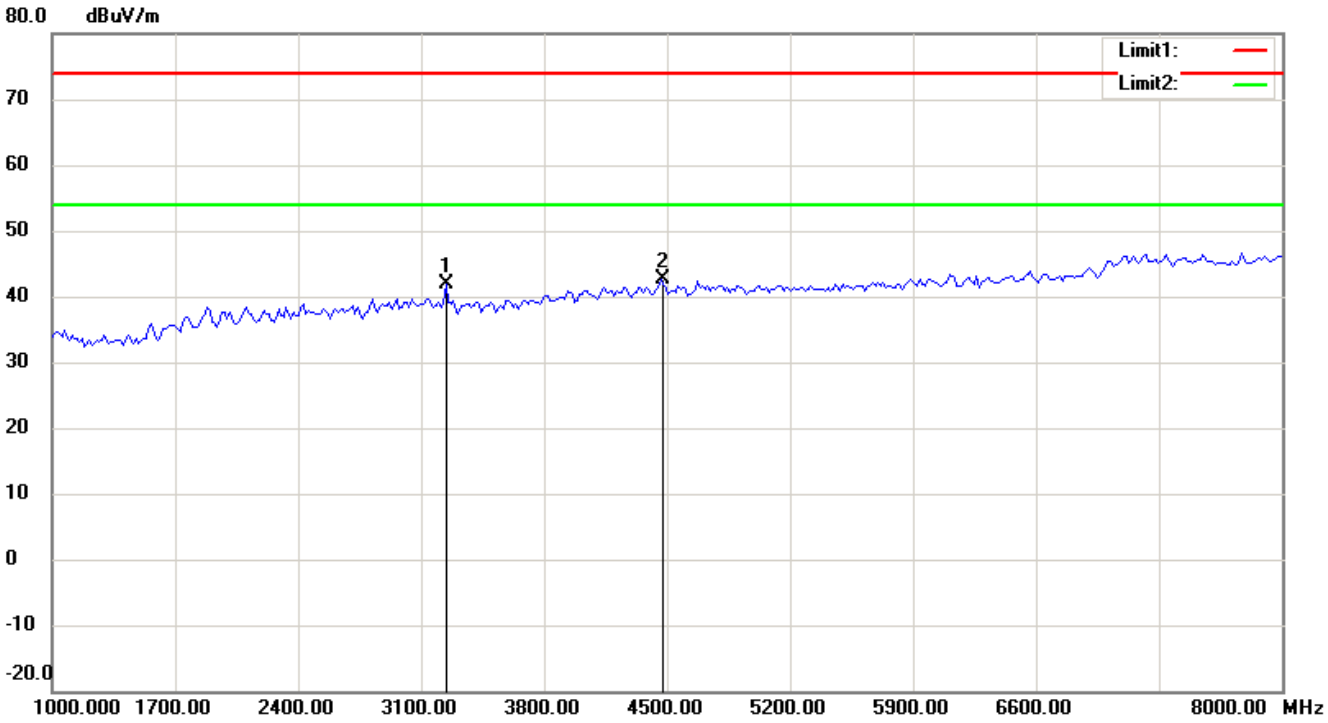
Note: Up line: PK limit Down line: AVE limit

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

Antenna Polarization V





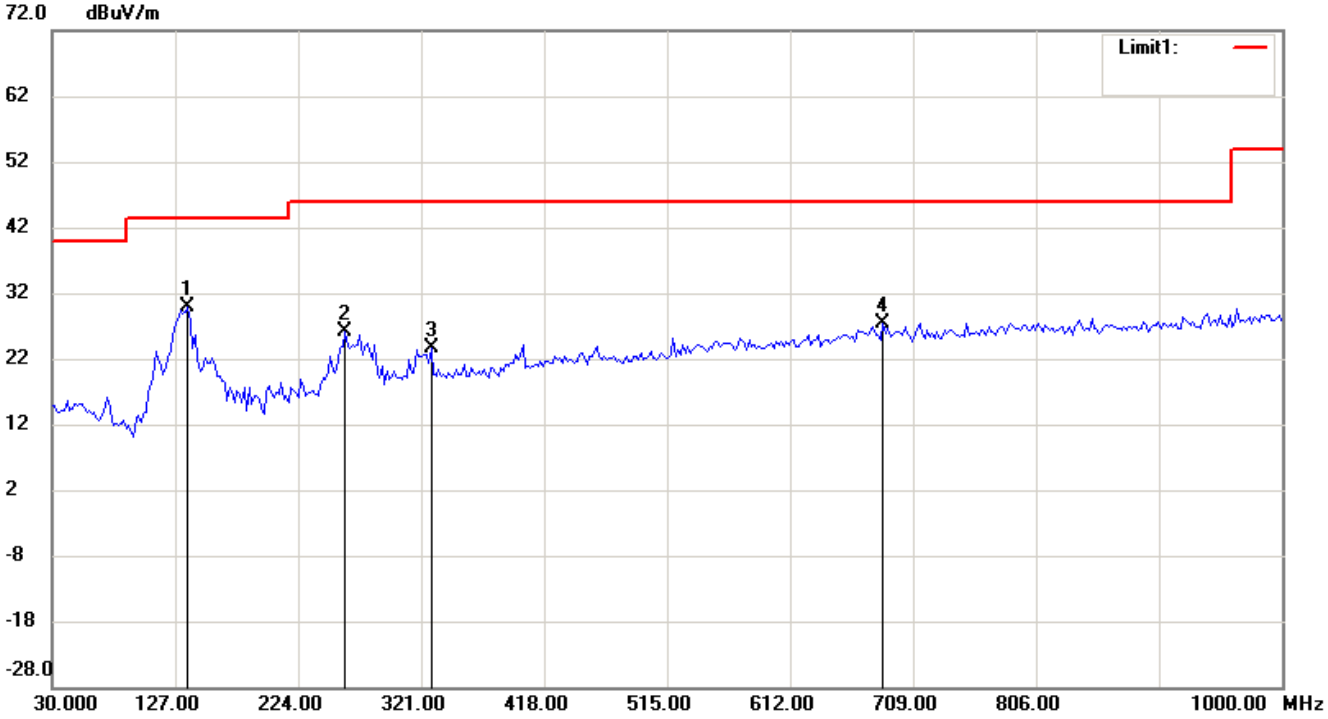
Note: Up line: PK limit Down line: AVE limit

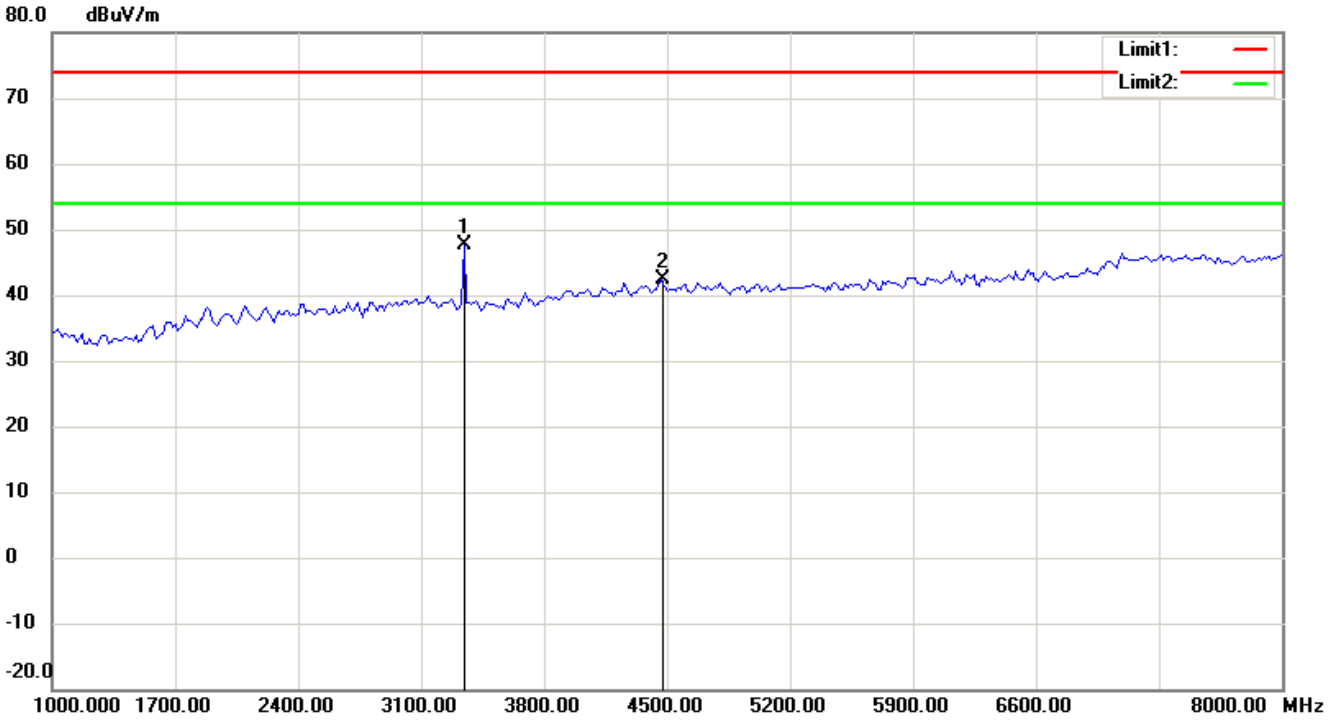
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

25 kHz-418 MHz

Antenna Polarization H



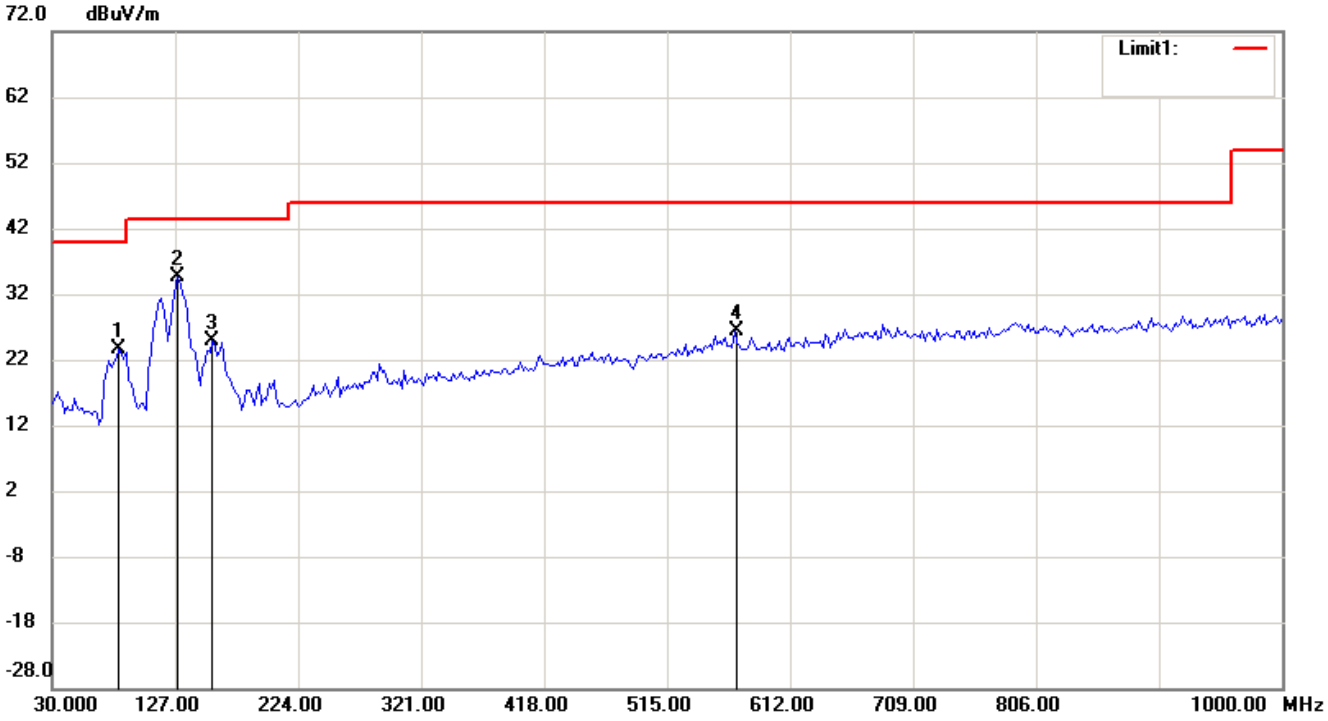


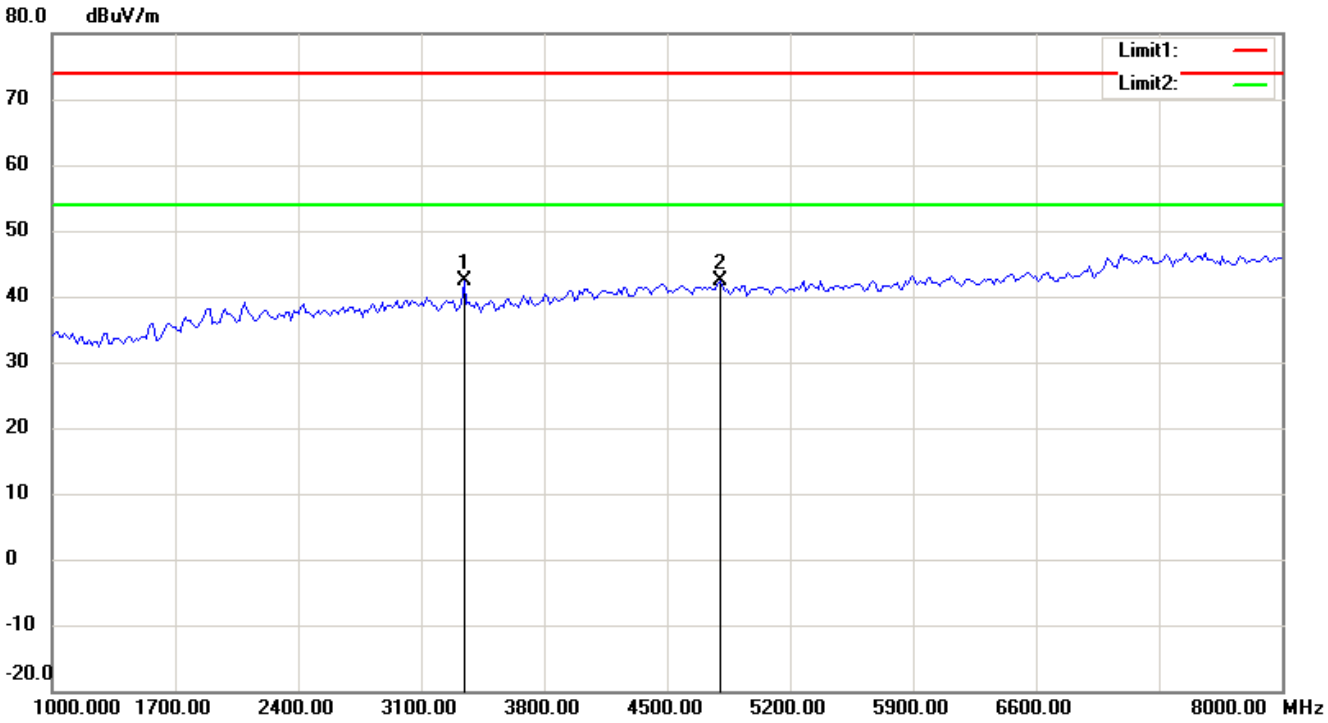
Note: Up line: PK limit Down line: AVE limit

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

Antenna Polarization V





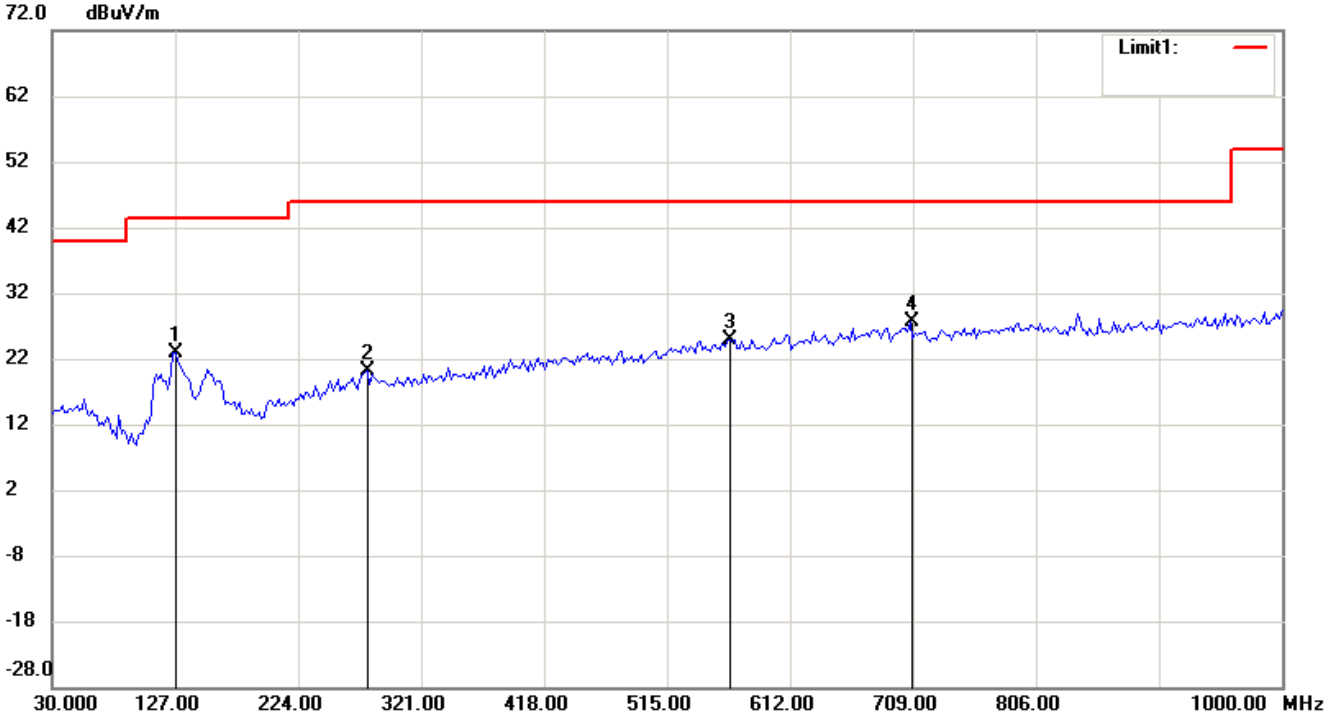
Note: Up line: PK limit Down line: AVE limit

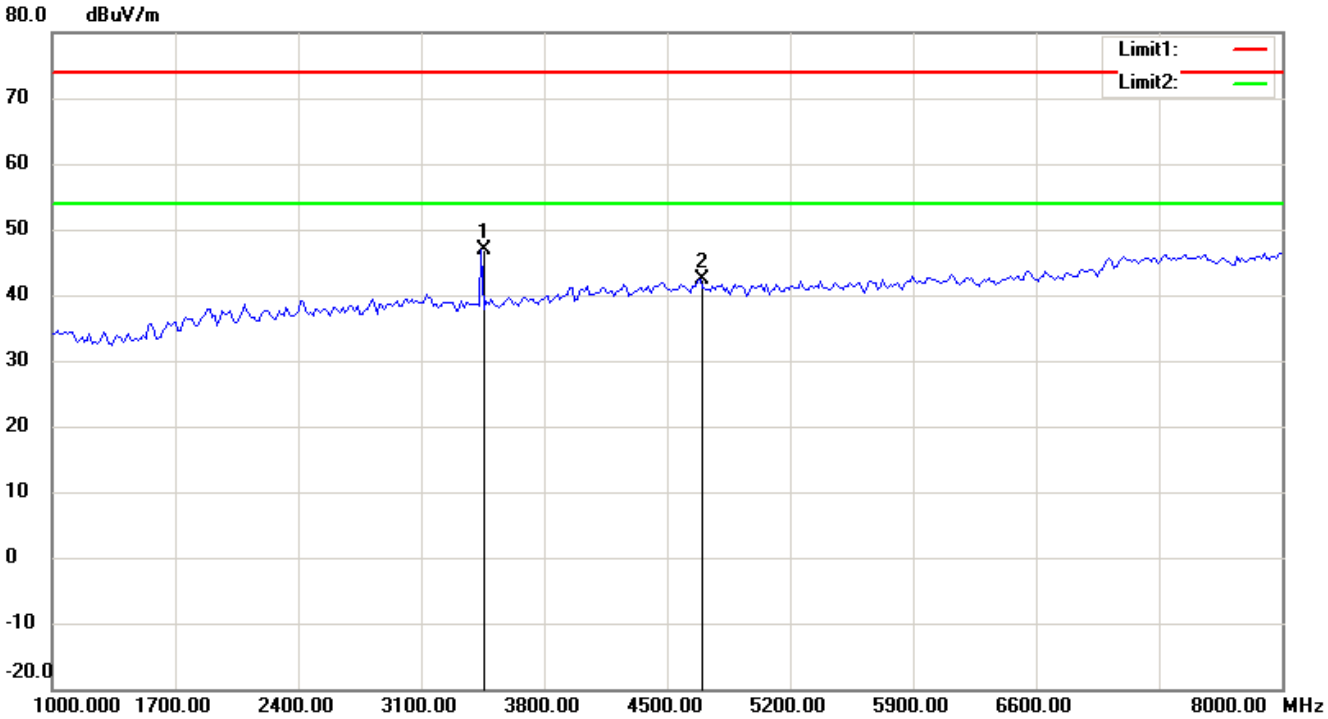
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

25 kHz-429.975 MHz

Antenna Polarization H



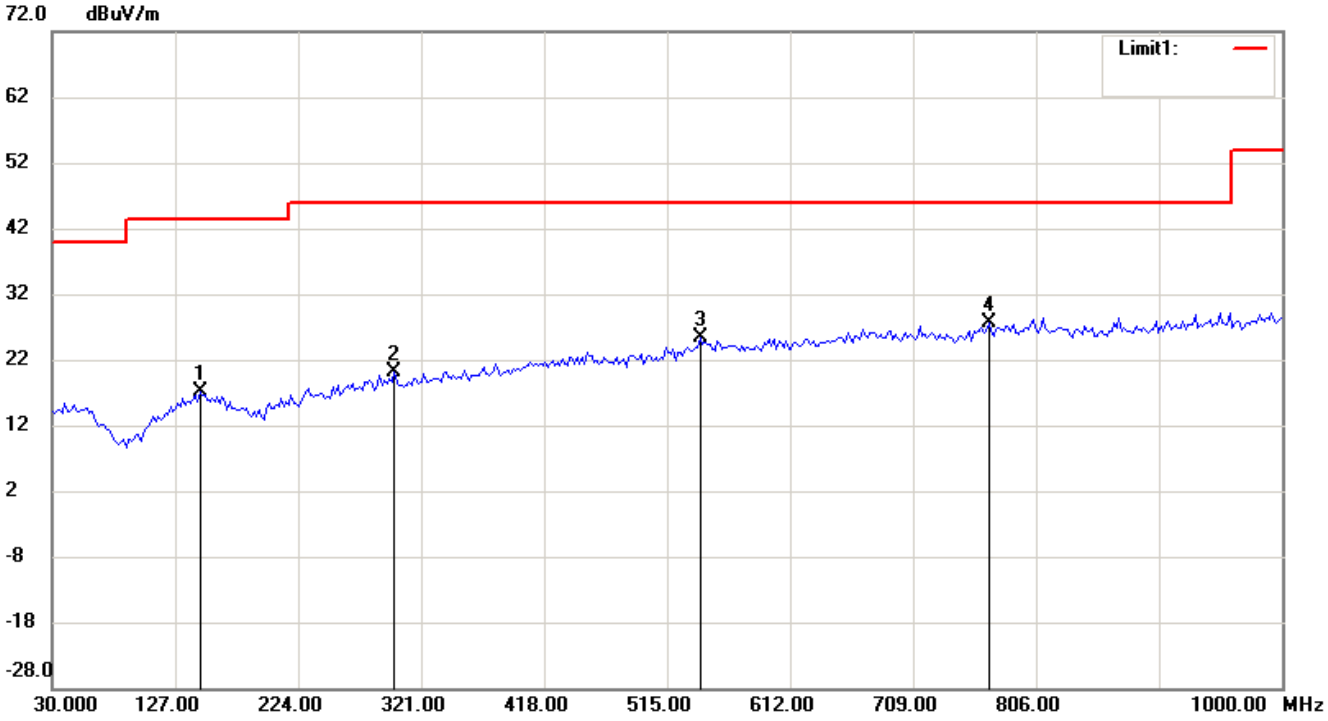


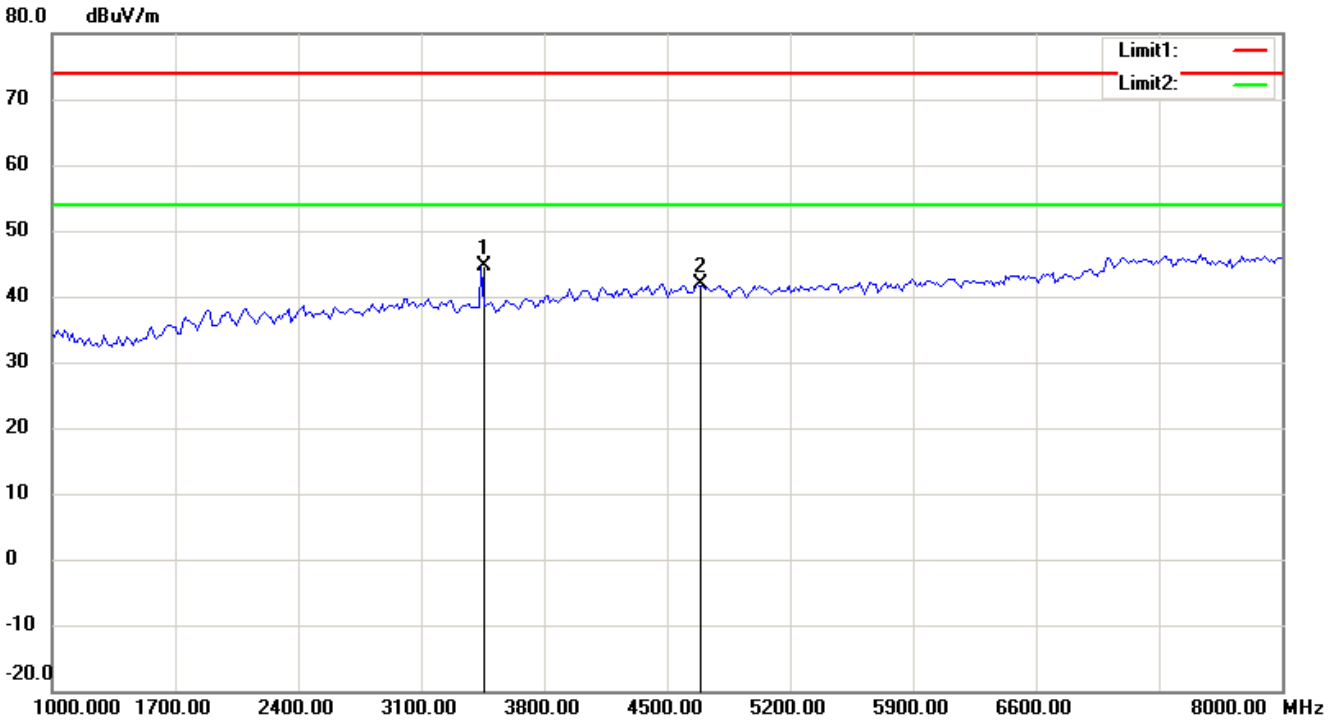
Note: Up line: PK limit Down line: AVE limit

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

Antenna Polarization V





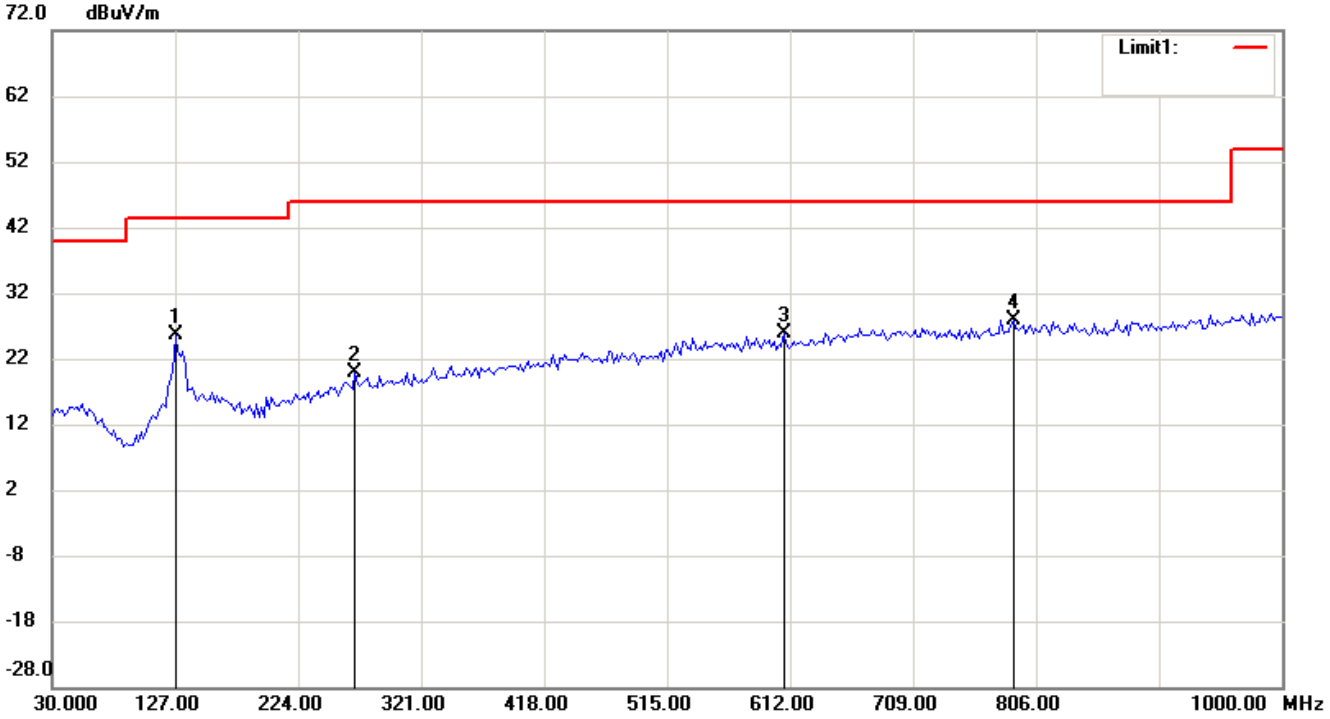
Note: Up line: PK limit Down line: AVE limit

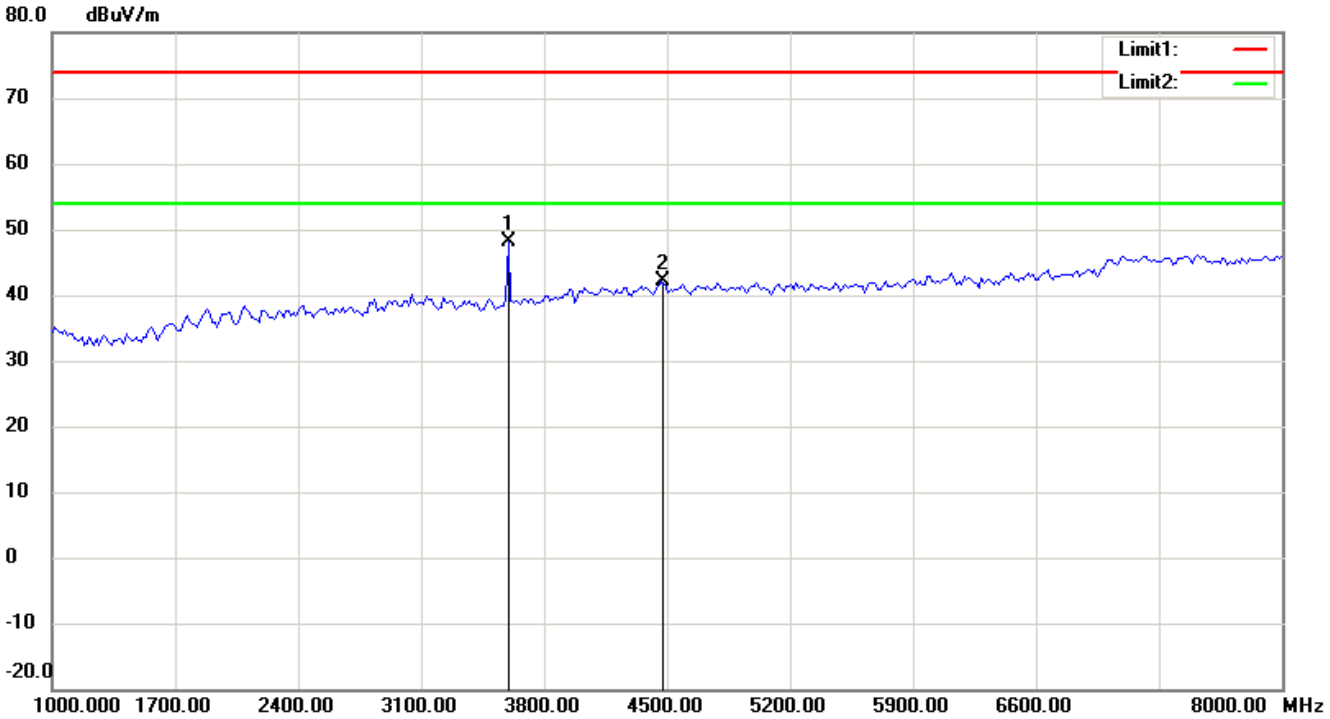
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

25 kHz-450.025MHz

Antenna Polarization H



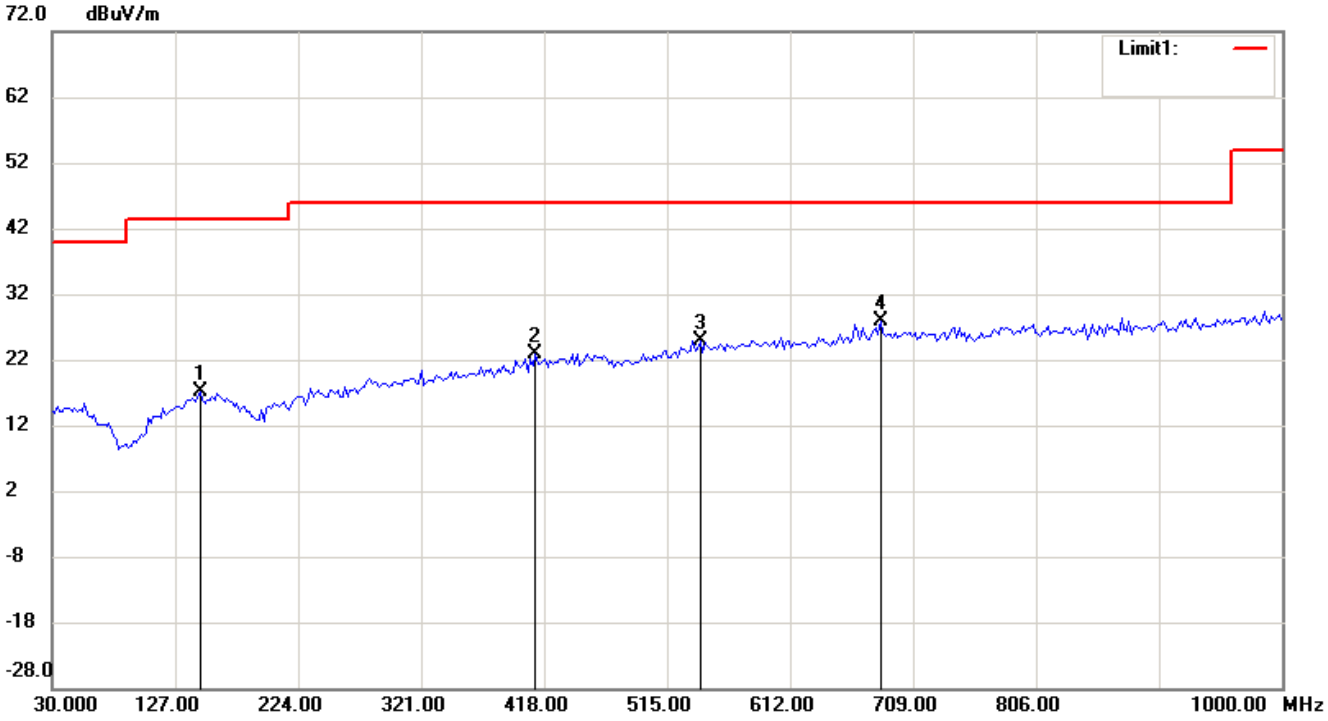


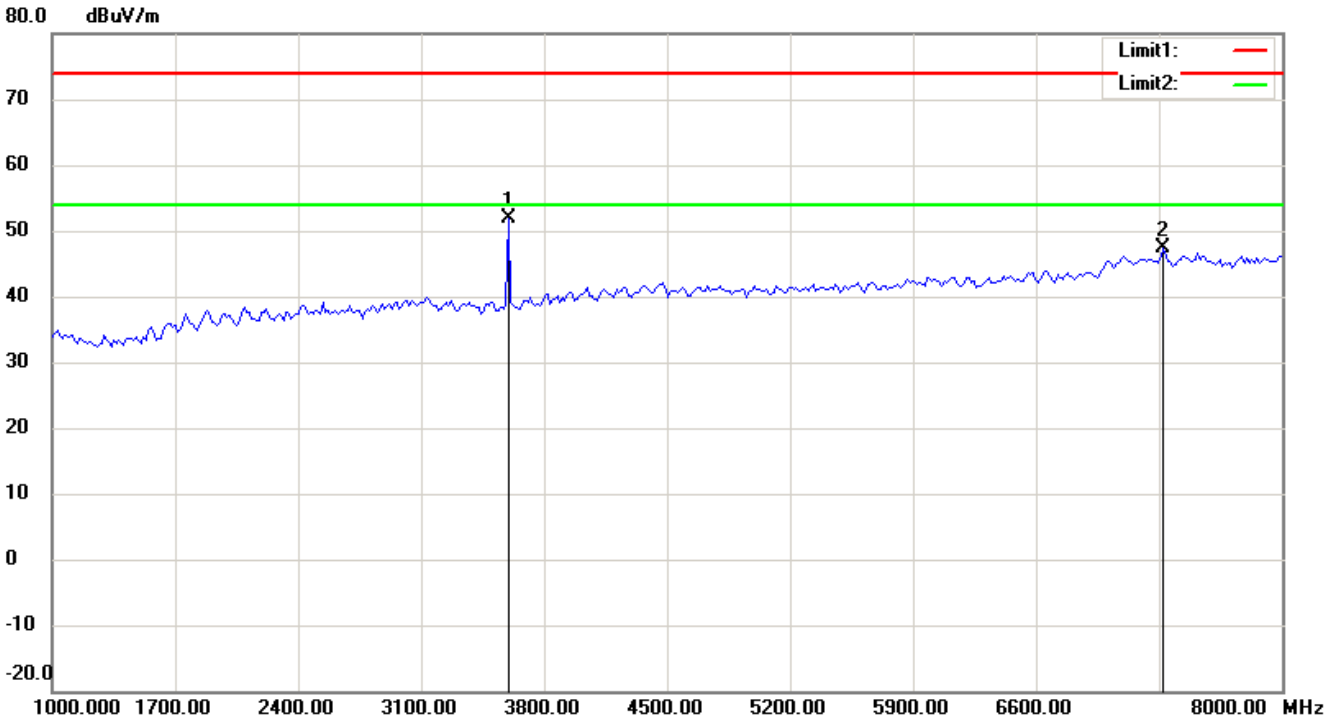
Note: Up line: PK limit Down line: AVE limit

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

Antenna Polarization V





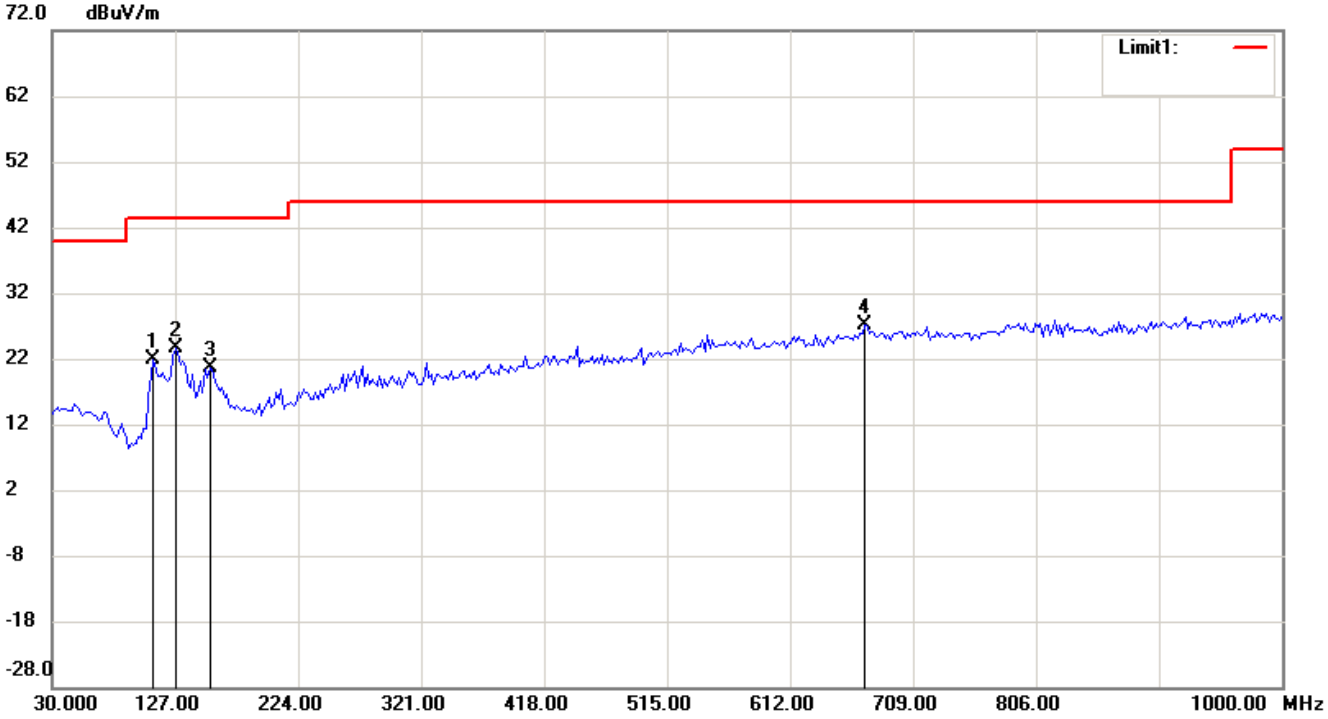
Note: Up line: PK limit Down line: AVE limit

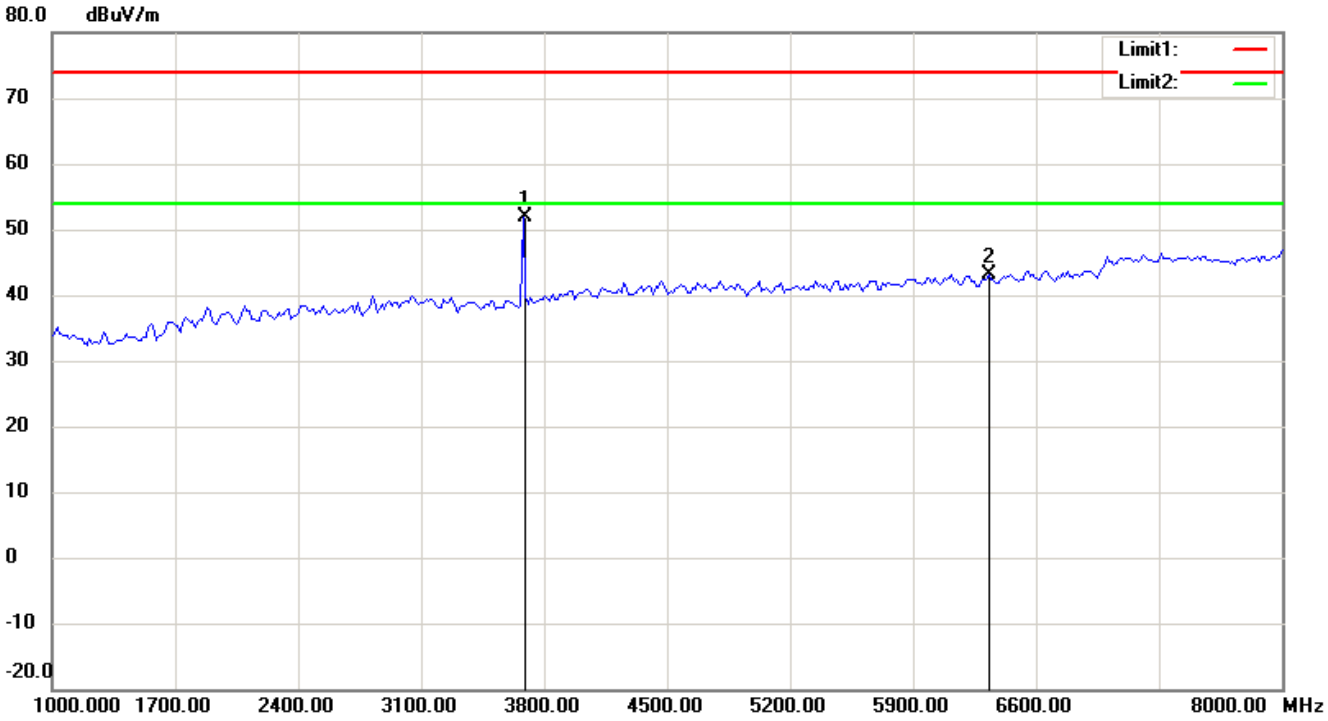
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

25 kHz-460 MHz

Antenna Polarization H



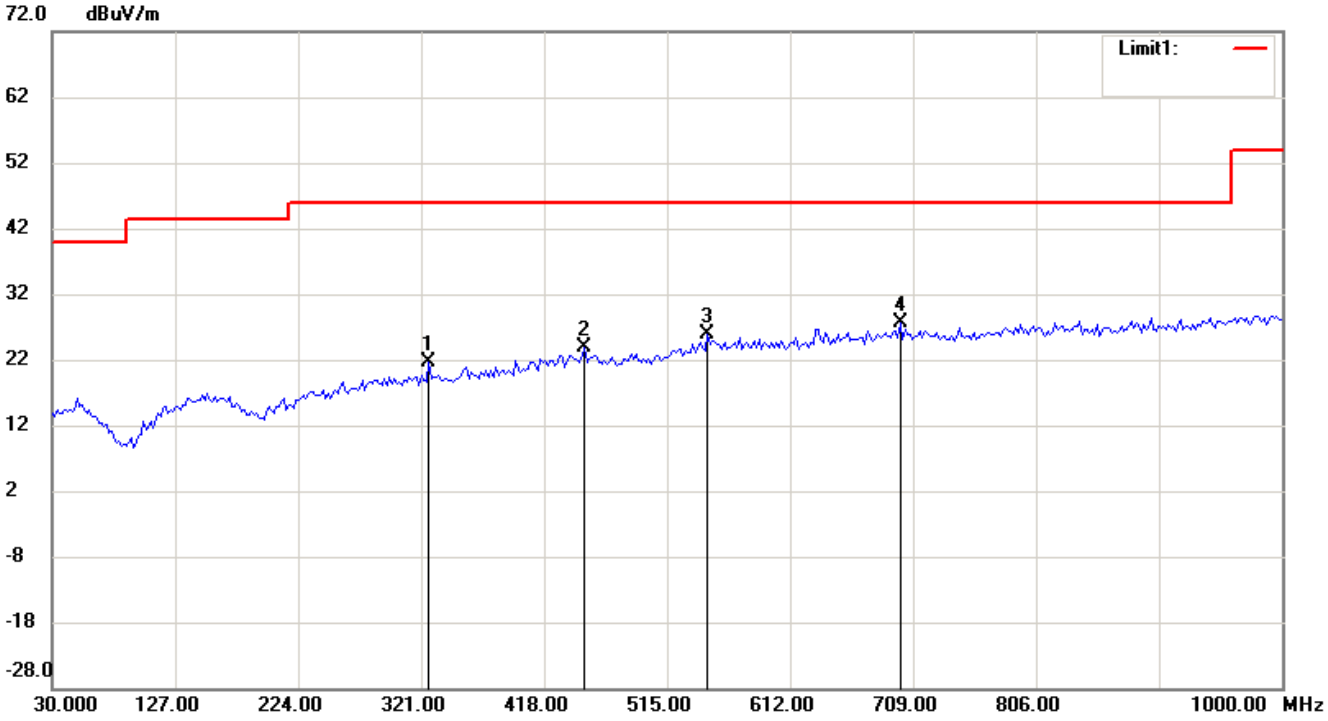


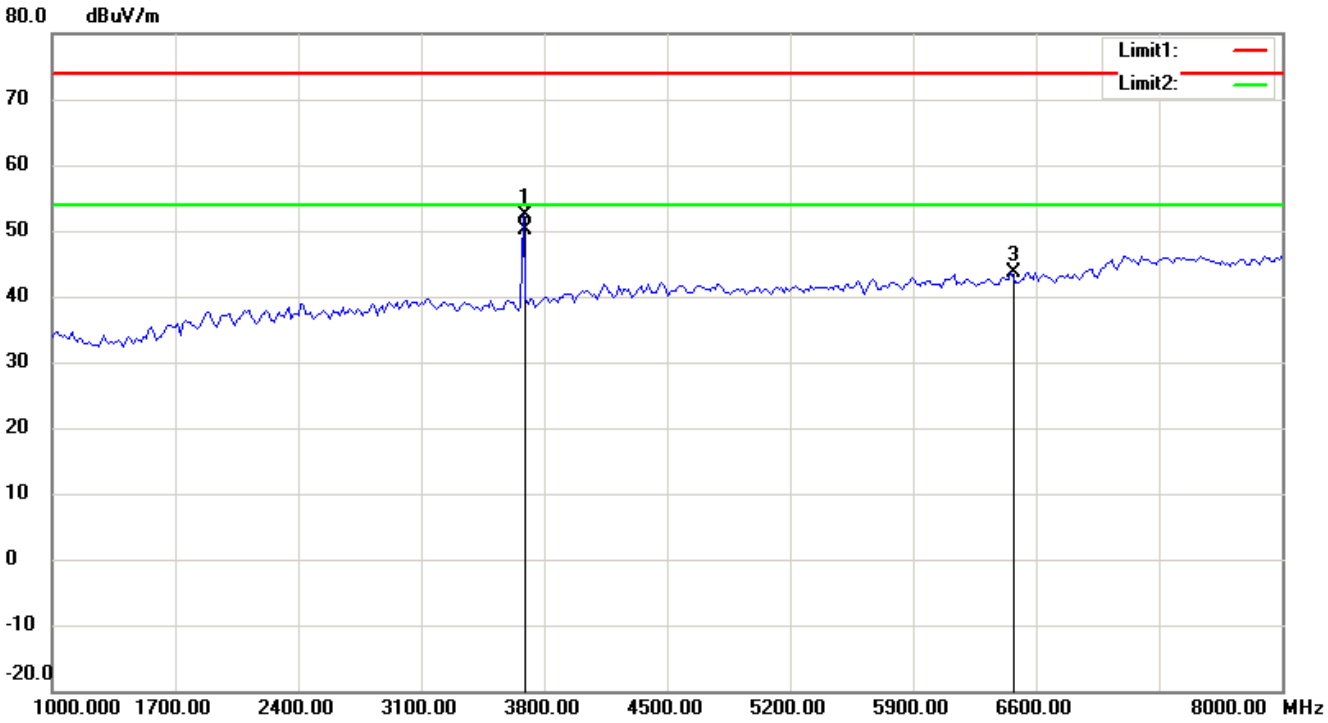
Note: Up line: PK limit Down line: AVE limit

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

Antenna Polarization V





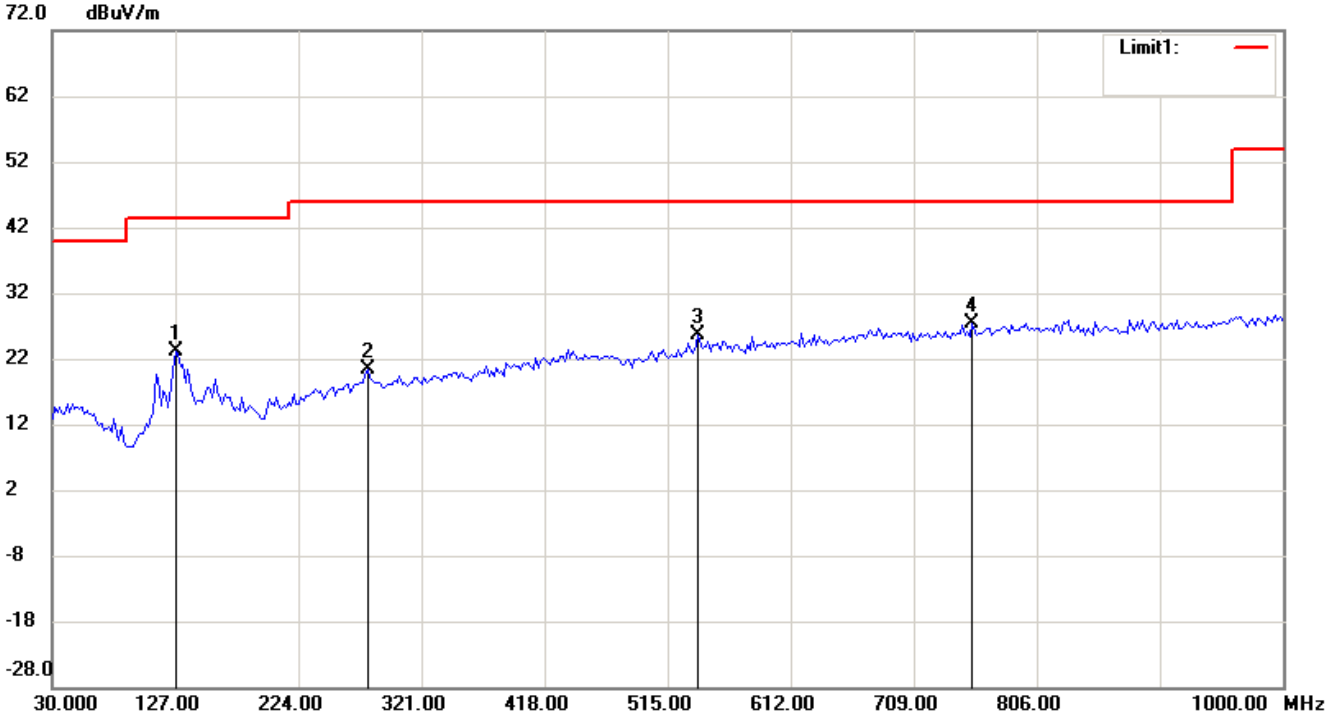
Note: Up line: PK limit Down line: AVE limit

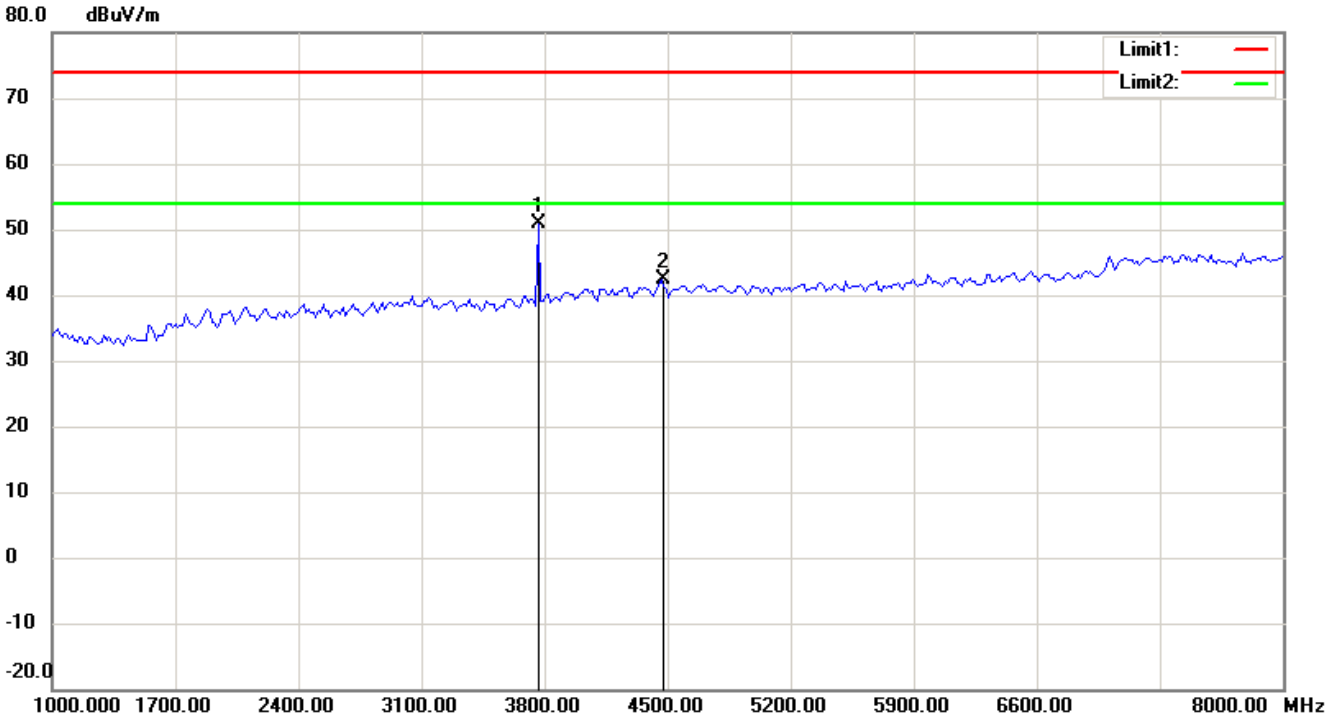
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

25 kHz-469.975 MHz

Antenna Polarization H



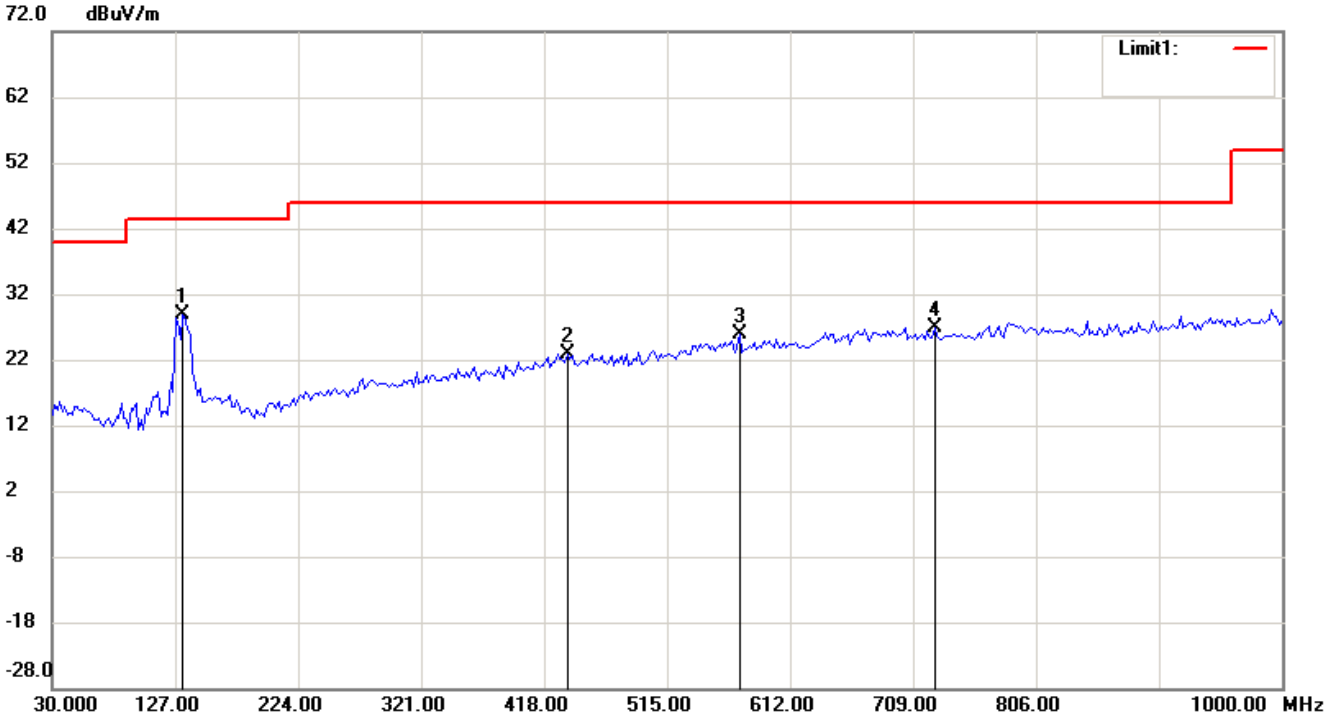


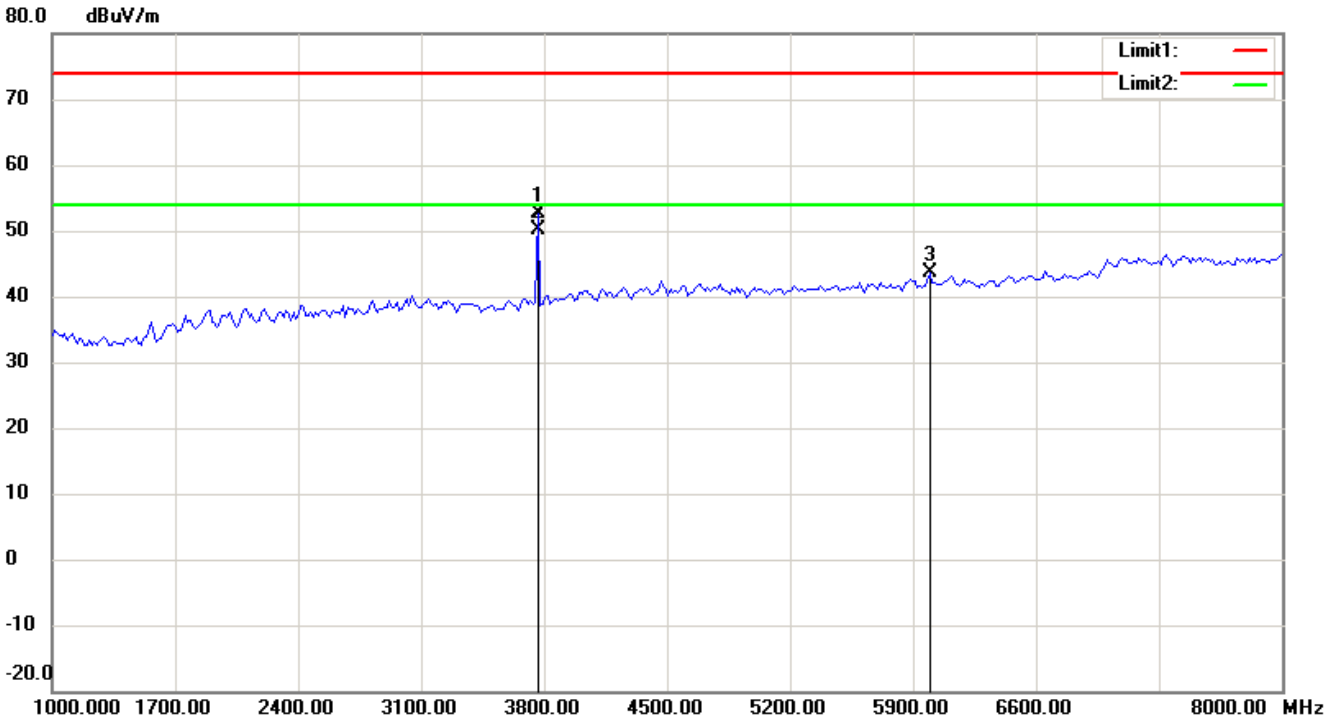
Note: Up line: PK limit Down line: AVE limit

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

Antenna Polarization V



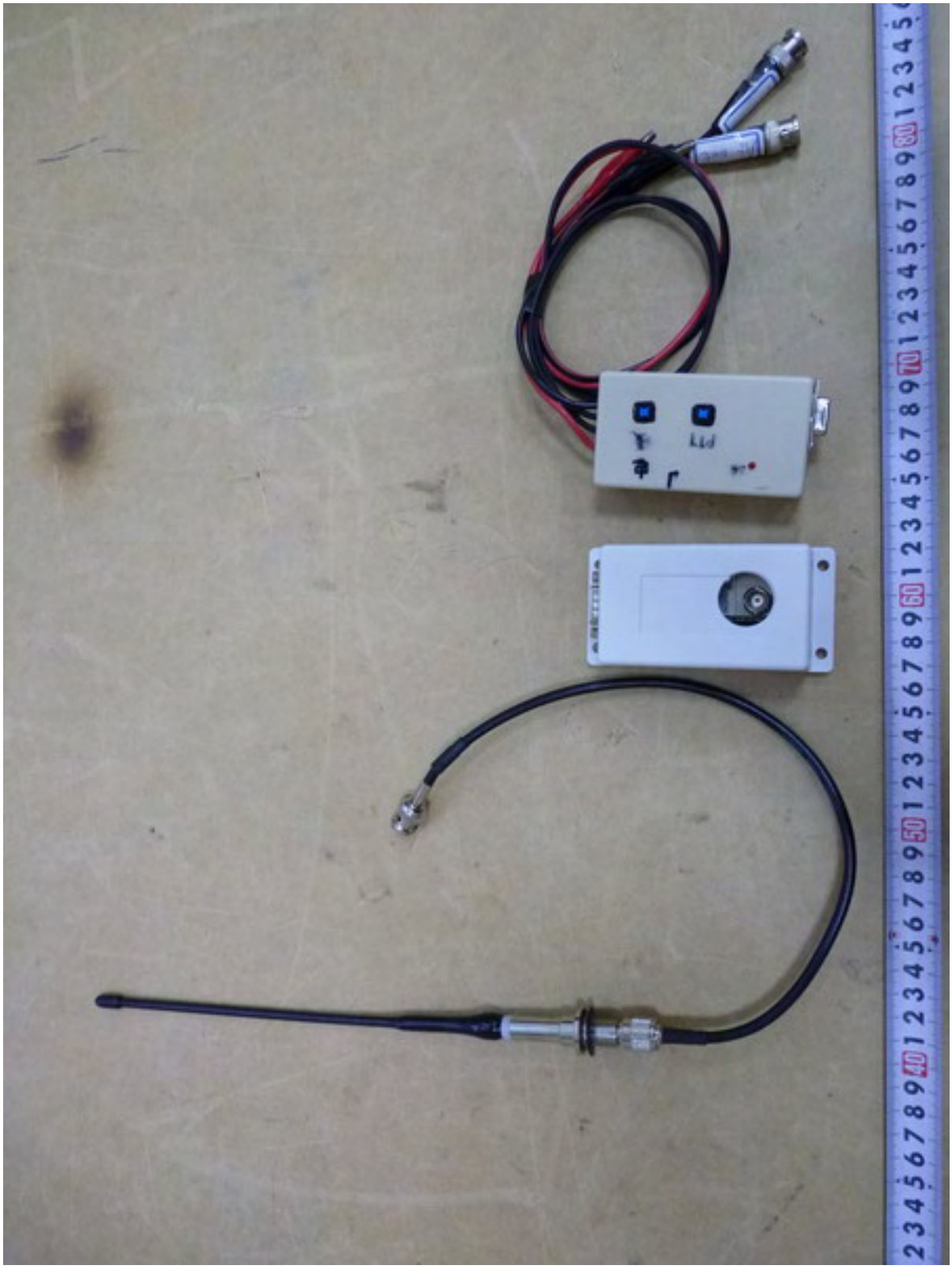


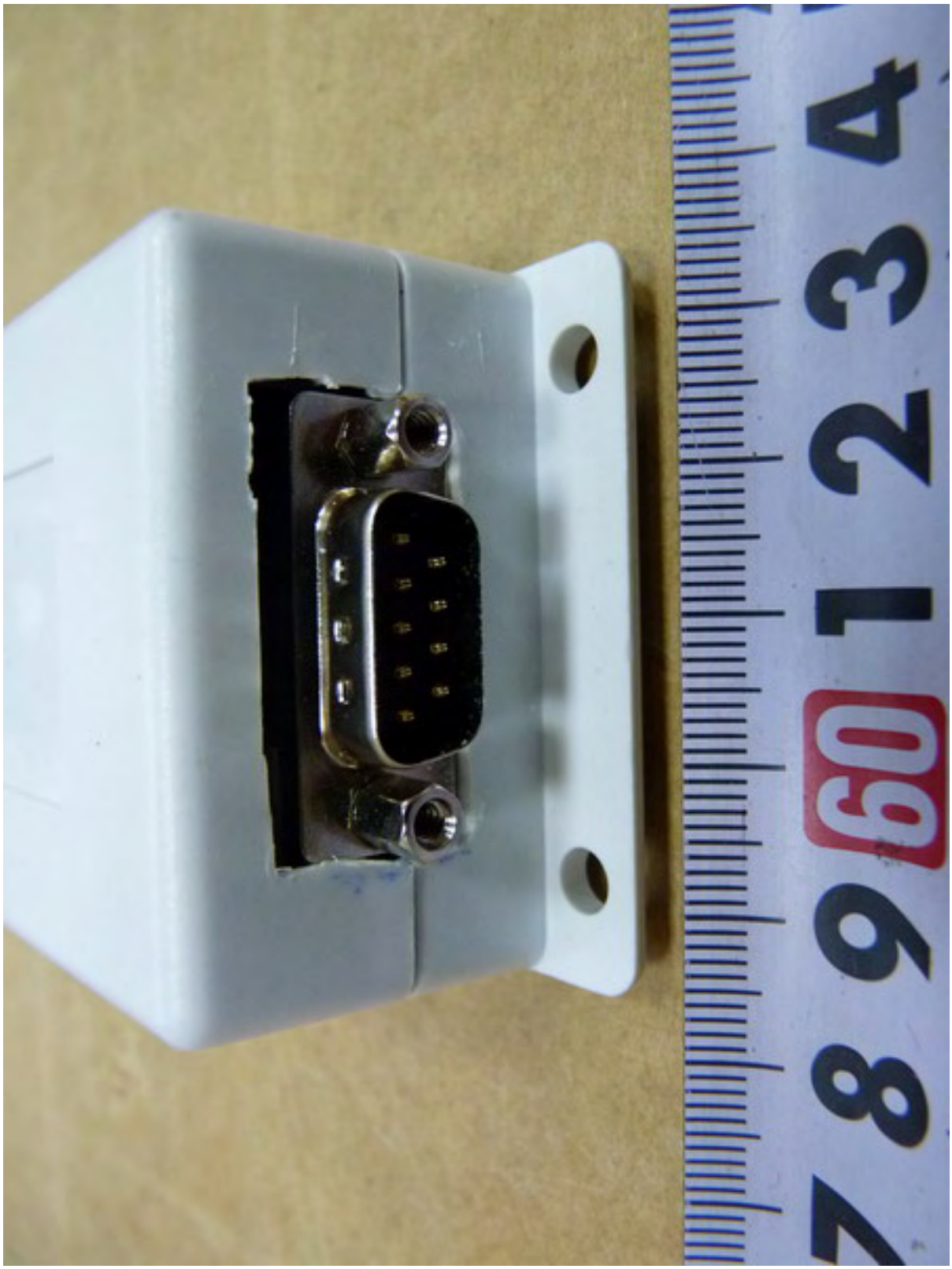
Note: Up line: PK limit Down line: AVE limit

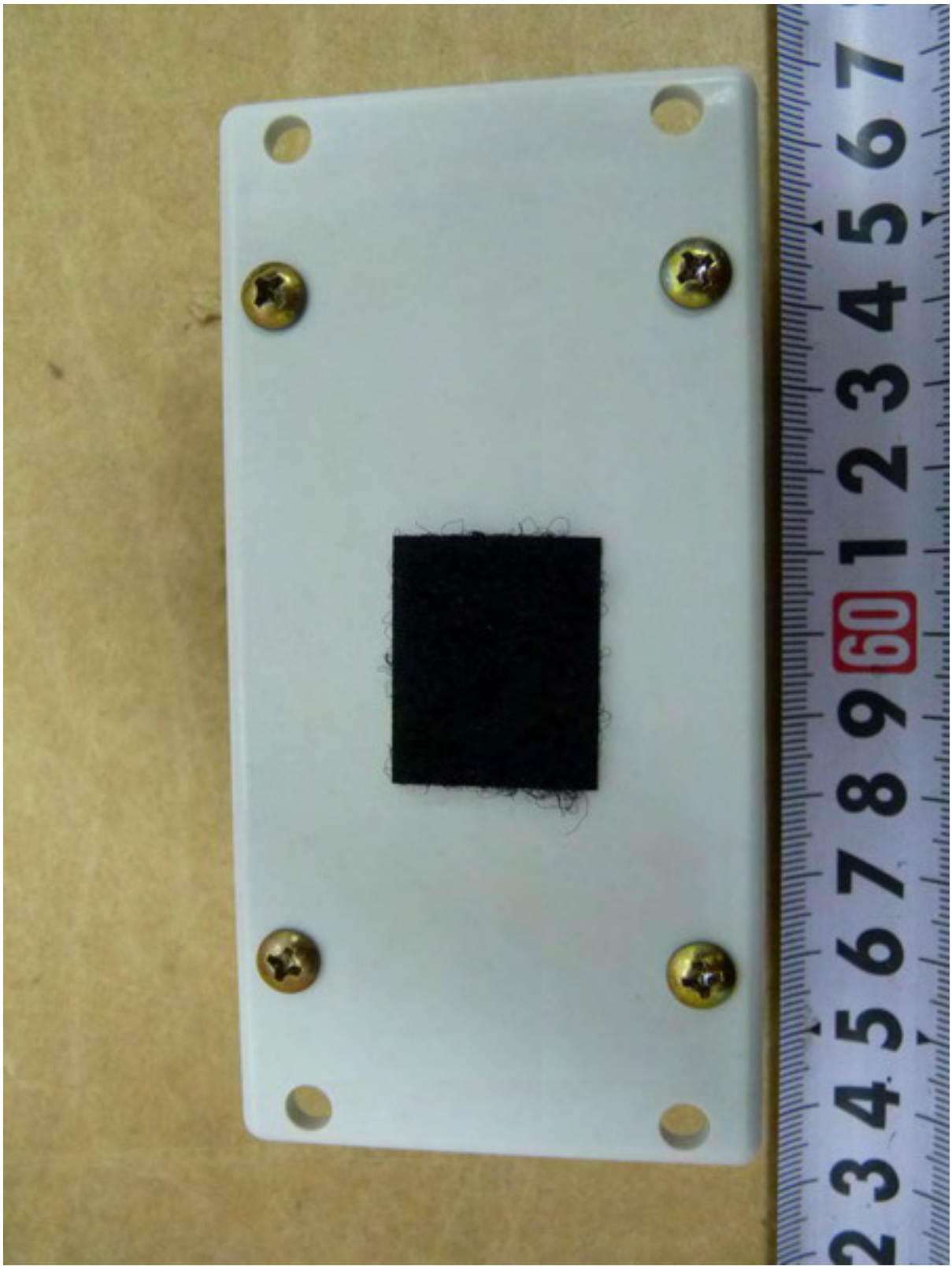
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Pictures

External Photos





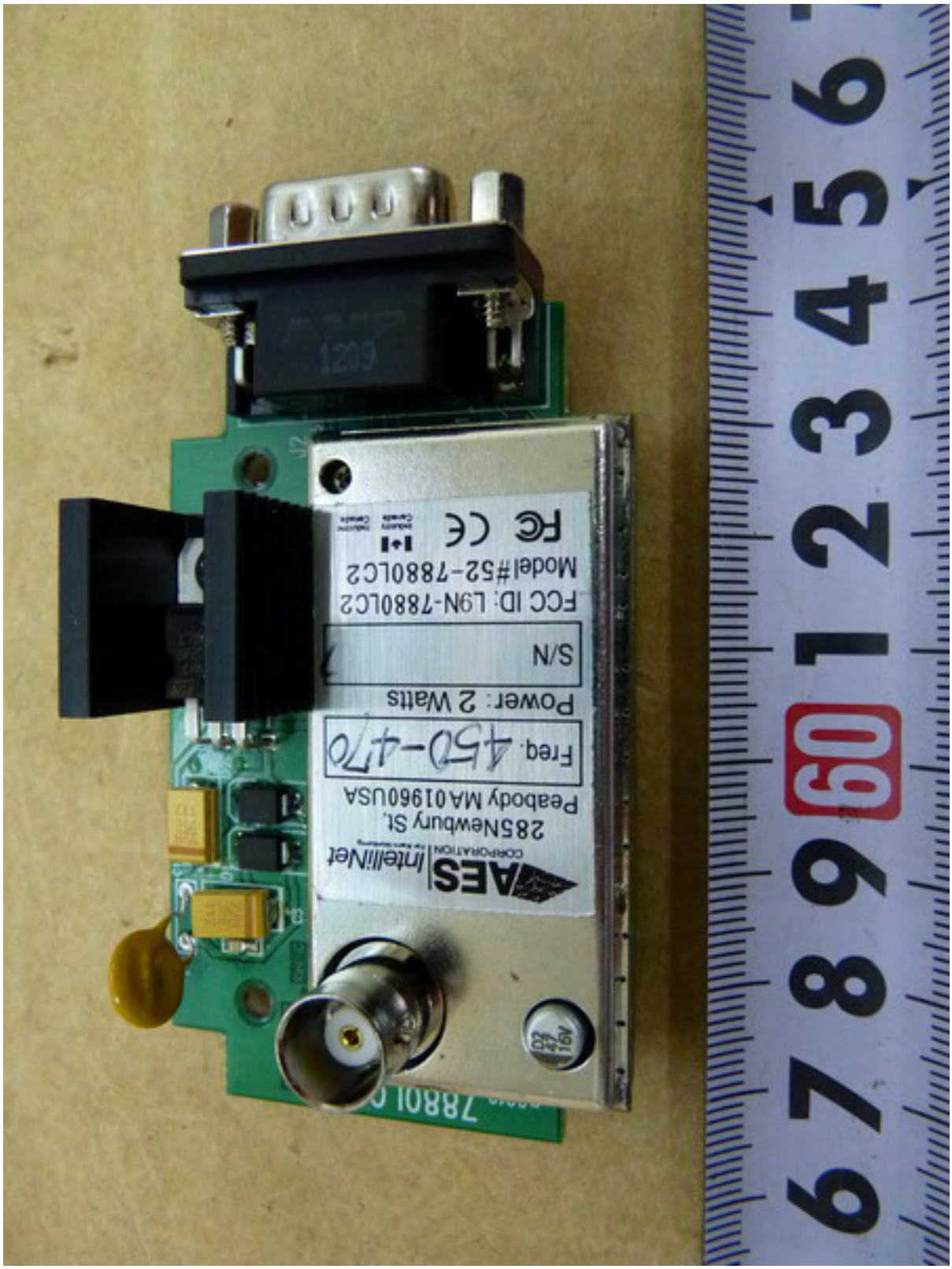



IntelliNet

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

Internal Photos

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B



Registration number: W6M21210-12822-C-1
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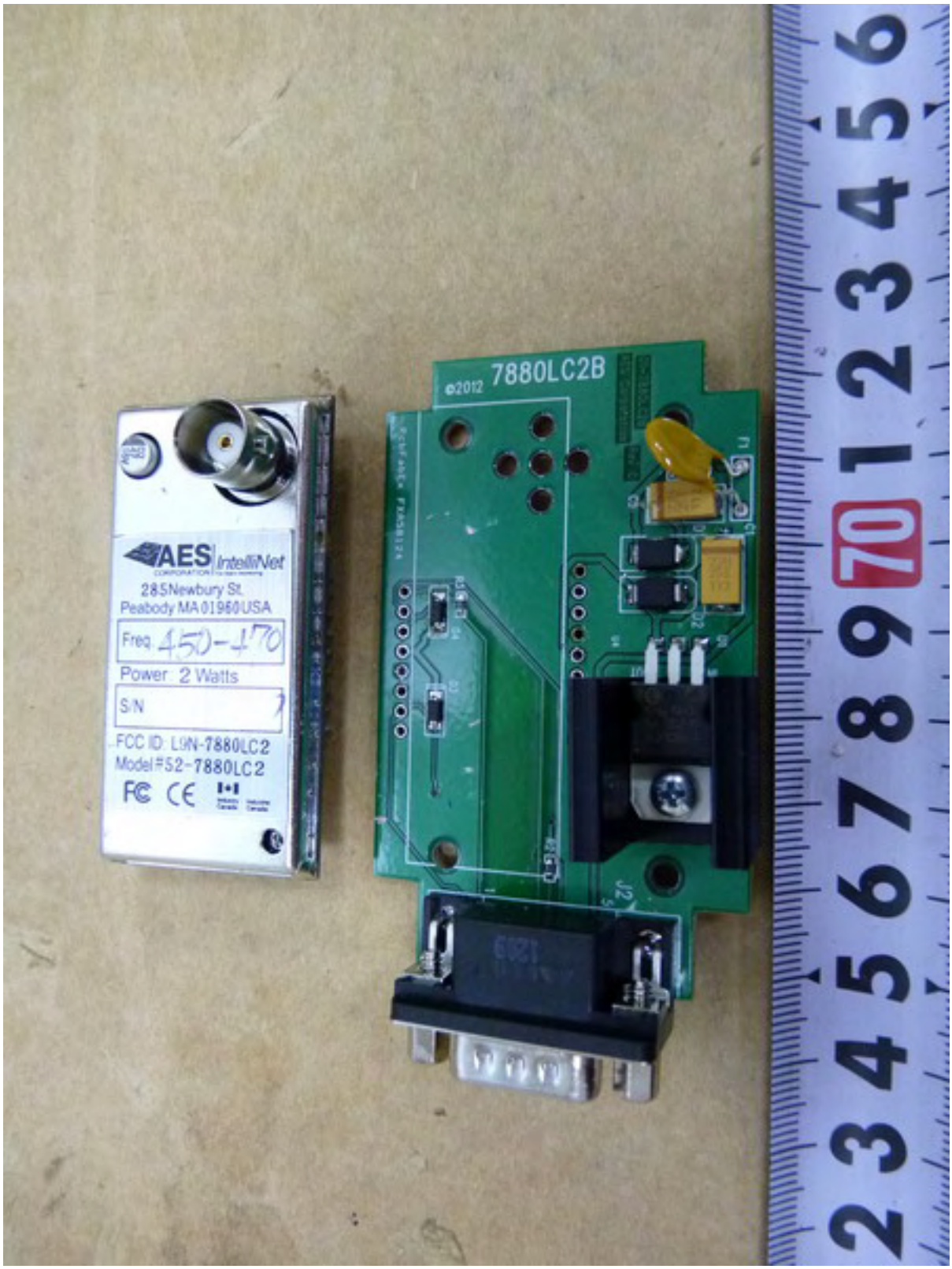
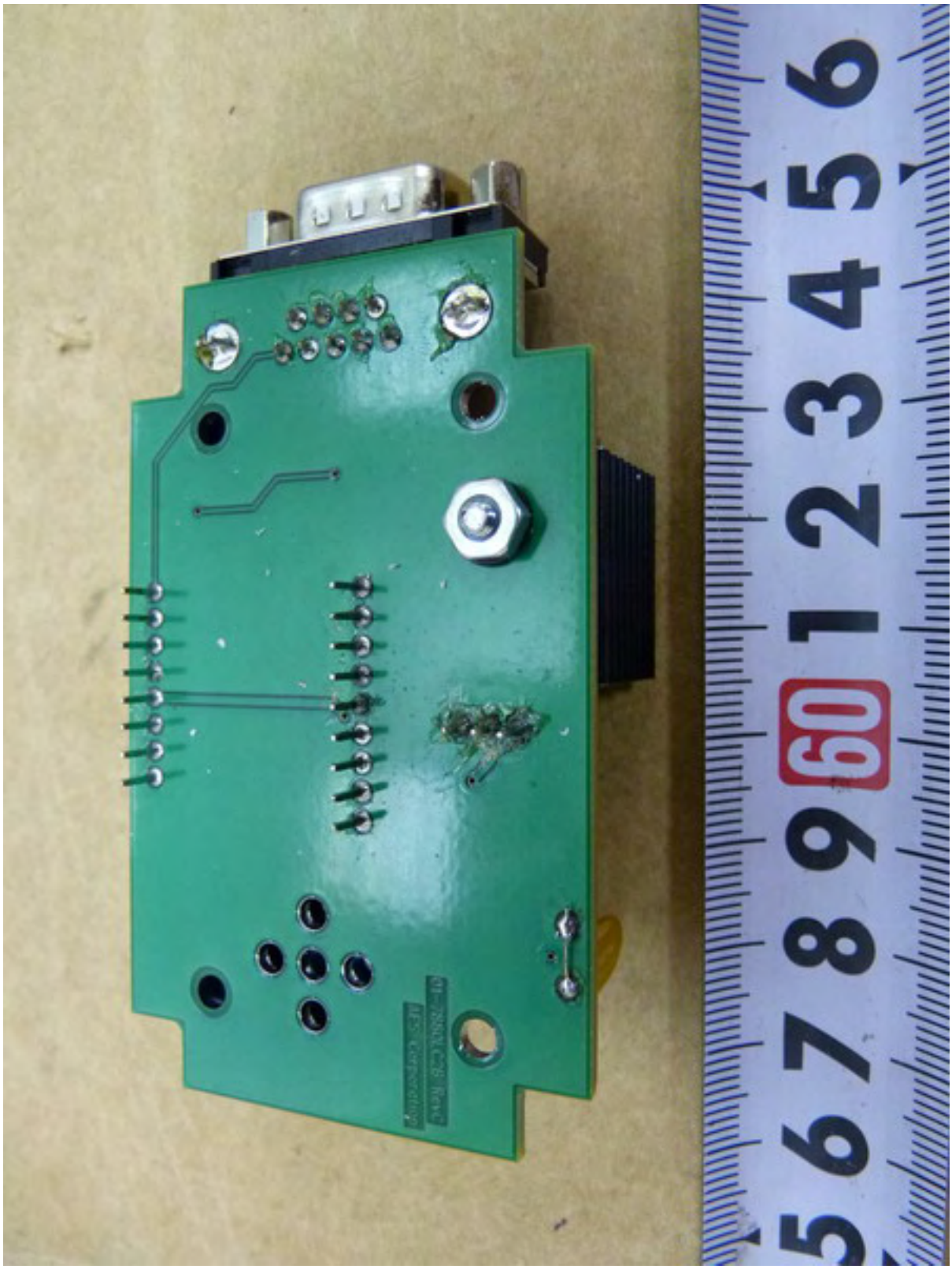
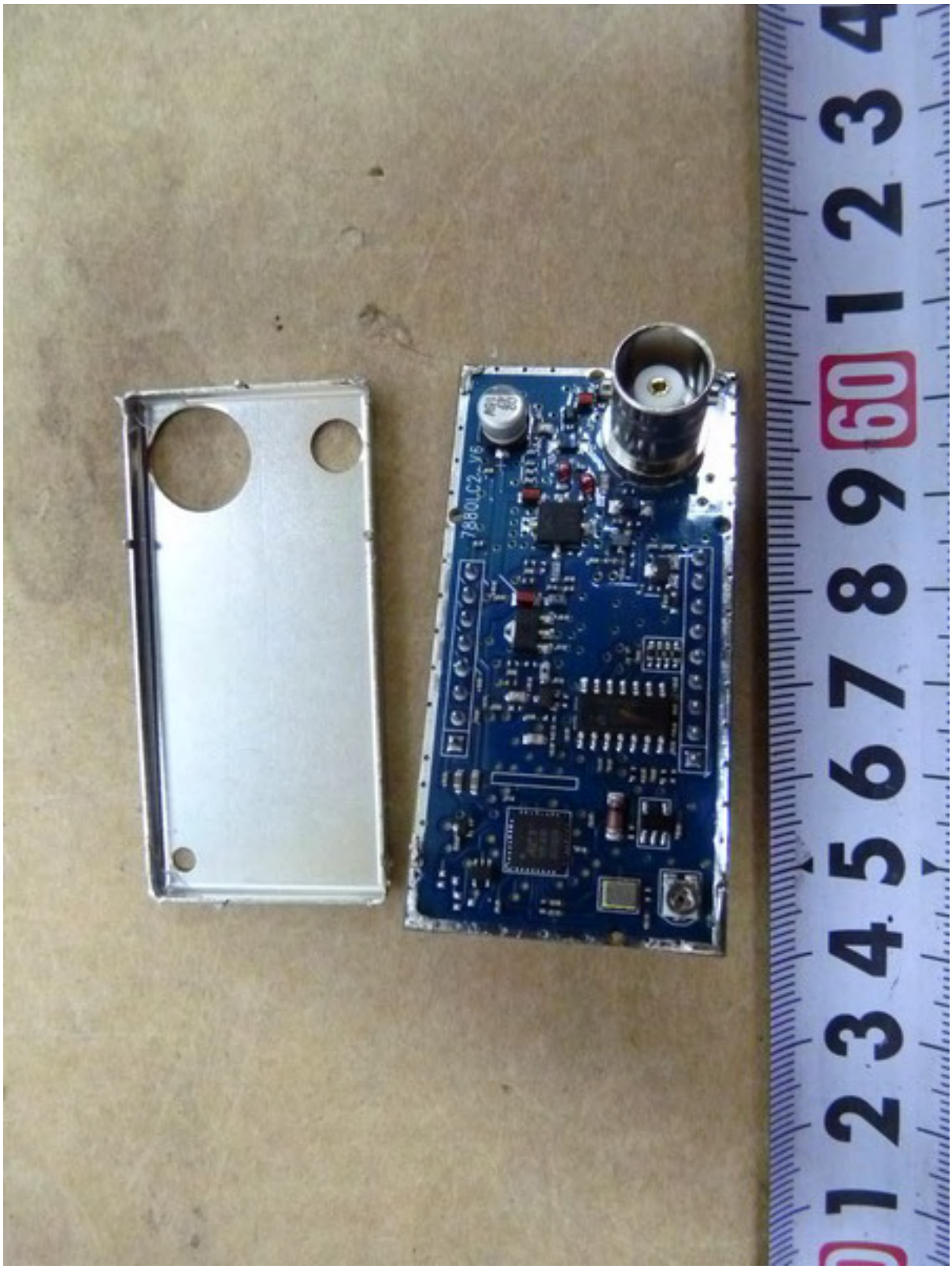
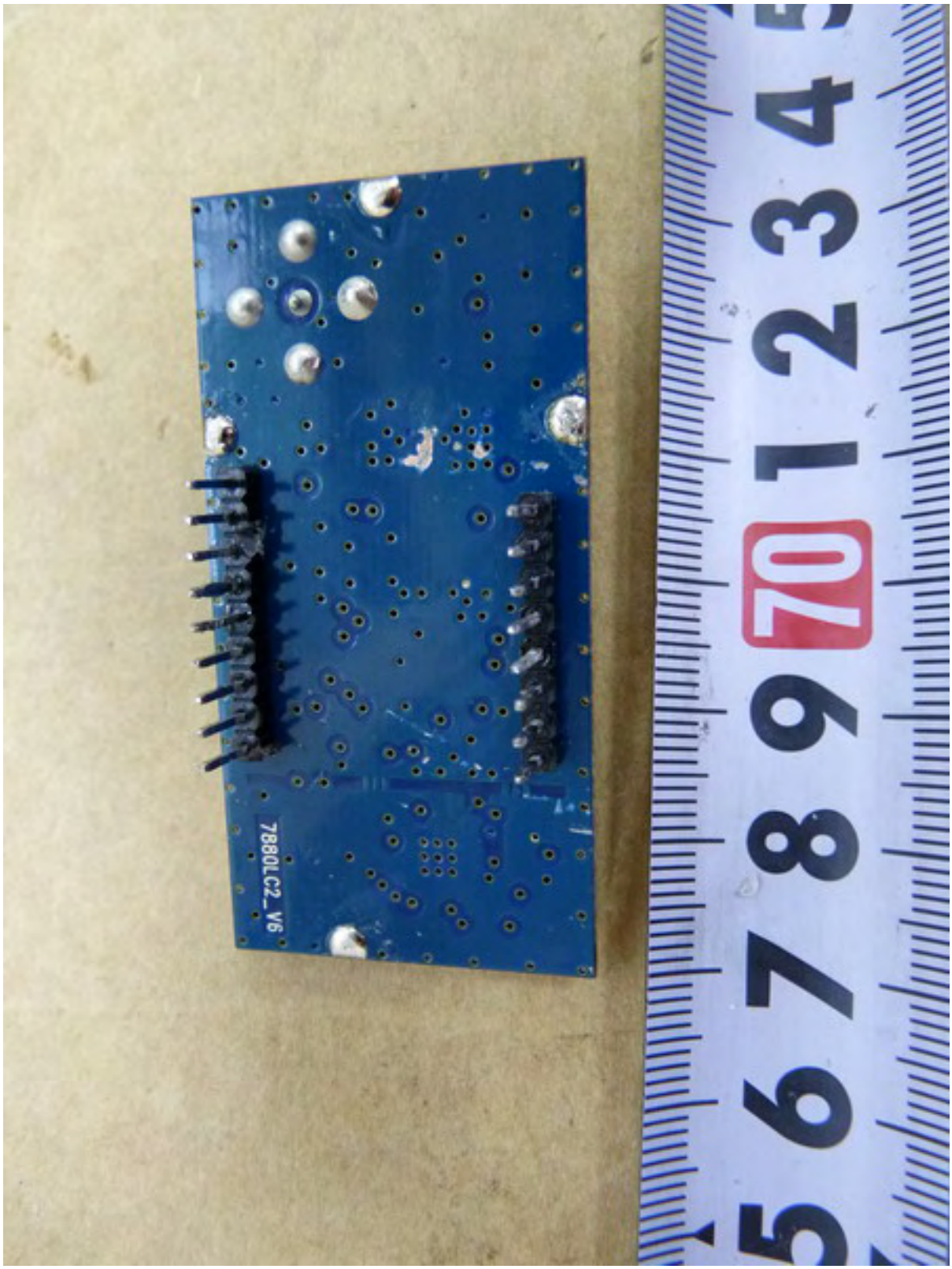


Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B



Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B


7880LC2_V6


7880LC2_V6

Registration number: W6M21210-12822-C-1
FCC ID: L9N-7880LC2B

Set Up Photo of Radiated Emission