FCC PART 15 SUBPART C TEST REPORT

for

802.11a/n 1T1R Wireless Outdoor CPE

Model No.: AirMax5N

FCC ID: ODMAM5N

of

Applicant: **OvisLink Corp.**
Address: **5F, No.6, Lane 130, Min-Chuan Rd., Hsin-Tien Dist., New Taipei City 231, Taiwan**

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

Testing Laboratory
1477

Report No.: W6D21210-12823-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

Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N

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1 General Information

1.1 Notes

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

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

Specific Conditions:
Usage of the hereunder tested device in combination with other integrated or external antennas requires at least additional output power measurements, spurious emission measurements, conducted emission measurements (AC supply lines) and radio frequency exposure evaluations for each individual configuration performed, for certification by FCC.
The test sample is able to work according IEEE 802.11 A/N
This report is related to FCC Part 15 C (OFDM device).

Tester:

December 21, 2012 Rick Chen Rick Chen.

Date WTS-Lab. Name Signature

Technical responsibility for area of testing:

December 21, 2012 Danny Sung Danny Sung

Date WTS Name Signature

Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N

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:	OvisLink Corp.
Street:	5F, No.6, Lane 130, Min-Chuan Rd., Hsin-Tien Dist.,
Town:	New Taipei City 231
Country:	Taiwan
Telephone:	+886-2-2218-6888
Fax:	+886-2-8667-6352

Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N

1.4 Application details

Date of receipt of test item (first):	March 23, 2011
Date of test (first):	from March 24, 2011 to August 9, 2011
Date of receipt of test item (second):	October 30, 2012
Date of test(second):	from November 26, 2012 to December 21, 2012

1.5 General information of Test item

Type of test item:	802.11a/n 1T1R Wireless Outdoor CPE
Model Number:	AirMax5N
Brand Name:	Air Live
Multi-listing model number:	AirMax5N-ESD, AirMax5N Series
Photos:	see Appendix

Technical data

Frequency band:	5.745 GHz – 5.825 GHz
802.11a	
Frequency (ch 149 or A):	5.745 GHz
Frequency (ch 157 or B):	5.785 GHz
Frequency (ch 165 or C):	5.825 GHz
11n 20MHz	
Frequency (ch 149):	5.745 GHz
Frequency (ch 157):	5.785 GHz
Frequency (ch 165):	5.825 GHz
11n 40MHz	
Frequency (ch 151):	5.755 GHz
Frequency (ch 159):	5.795 GHz
Frequency (ch 161):	5.805 GHz
Number of Channels:	802.11a/n(20MHz) 5CHs 802.11n(40MHz) 4CHs
Operation modes:	duplex
Modulation Type:	OFDM
Fixed point-to-point operation:	☒ Yes / ☐ No
Type of Antenna:	Patch and Dipole Antenna

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Antenna gain:	11.13 dBi (Patch antenna) / 4 dBi (Dipole Antenna)
Power supply:	DC 12V from POE adaptor POE Adaptor (I/P: AC 100-240 V / 50-60 Hz / 0.3 A, O/P: 12 Vdc /1.0 A)
Emission designator:	18M4D1D 20M0D1D 40M0D1D
Host device:	none

Classification :

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

Transmitter **Unom**

Mode A (802.11a)
Frequency (ch 149 or A): Conducted: 22.30 dBm
Frequency (ch 157 or B): Conducted: 21.15 dBm
Frequency (ch 165 or C): Conducted: 20.45 dBm

Mode B (802.11n 20MHz)
Frequency (ch 149 or A): Conducted: 24.58 dBm
Frequency (ch 157 or B): Conducted: 24.45 dBm
Frequency (ch 165 or C): Conducted: 23.65 dBm

Mode C (802.11n 40MHz)
Frequency (ch 151 or A): Conducted: 25.54 dBm
Frequency (ch 159 or B): Conducted: 23.75 dBm
Frequency (ch 161 or C): Conducted: 23.69 dBm

Manufacturer: (if applicable)

Name:	./.
Street:	./.
Town:	./.
Country:	./.

Additional information: ./.

1.6 Test standards

Technical standard : FCC RULES PART 15 SUBPART C § 15.247 (2011-10)

Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N

2 Technical test

2.1 Summary of test results

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

or

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

2.2 Test environment

Temperature:	23 °C
Relative humidity content:	20 ... 75 %
Air pressure:	86 ... 103 kPa
Power supply:	DC 12V from POE adaptor POE Adaptor (I/P: AC 100-240 V / 50-60 Hz / 0.3 A, O/P: 12 Vdc /1.0 A)
Extreme conditions parameters:	./.

Special statement:

1. This test report is based on the original test report no.: W6R21211-12874-C-1.
2. The relevant Circuitry, PCB Layout, Inner element, Function and Appearance of this model number is exactly the same as the one in original report. The differences are the approval holder, the manufacturer, the product name, the model number, the multi-listing model number, the brand name and the logo of Product. Therefore the test result is also based on the original test report no. W6R21211-12874-C-1 without re-testing.

2.3 Test Equipment List

No.	Test equipment	Type	Serial No.	Manufacturer	Cal. Date	Next Cal. Date
ETSTW-CE 001	EMI TEST RECEIVER	ESHS10	842121/013	R&S	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	2012/12/18	2013/12/17
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	2012/11/28	2013/11/27
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	2012/12/4	2013/12/3
ETSTW-RE 111	TRILOG Super Broadband test Antenna	VULB 9160	9160-3309	Schwarz beck	2012/12/13	2013/12/12
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	2012/11/6	2013/11/5
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	2012/12/18	2013/12/17
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	2012/11/28	2013/11/27
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	2012/11/28	2013/11/27

ETSTW-Cable 047	Microwave Cable	SUCOFLEX 104	325518	HUBER+SUHNER	2012/11/28	2013/11/27
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	

2.4 General Test Procedure

POWER LINE CONDUCTED INTERFERENCE: The procedure used was ANSI STANDARD C63.4-2009 5.2 using a 50µH LISN (if necessary). Both lines were observed. The bandwidth of the spectrum analyzer was 10 kHz with an appropriate sweep speed.

RADIATION INTERFERENCE: The test procedure used was according to ANSI STANDARD C63.4-2009 6.4 employing a spectrum analyzer. For investigated frequency is equal to or below 1GHz, the RBW and VBW of the spectrum analyzer was 100 kHz and 100kHz respectively with an appropriate sweep speed. For investigated frequency is above 1GHz, both of RBW and VBW of the spectrum analyzer were 1 MHz with an appropriate sweep speed. The analyzer was calibrated in dB above a microvolt at the output of the antenna.

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

Example:

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

The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m (non metallic table) and arranged according to ANSI C63.4-2009 6.3.1. The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to the frequency specified as follows:

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

For hand-held devices, a exploratory test was performed with three (3) orthogonal planes to determine the highest emissions.
Measurements were made by Worldwide Testing Services(Taiwan) Co., Ltd. at the registered open field test site located at No.5-1, Lishui, Shuang Sing Village, Wanli Dist., New Taipei City 207, Taiwan (R.O.C.). 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.

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

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

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

ANSI STANDARD C63.4-2009 10.2.7: Any measurements that utilize special test software shall be indicated and referenced in the test report. During testing, test software ’EZ EMC’ was used for setting up different operation modes.

3 Test results (enclosure)

TEST CASE	Para. Number	Required	Test passed	Test failed
Peak Output Power	15.247(b)(3)	☒	☒	☐
Equivalent radiated Power	15.247(b)(3)	☒	☒	☐
Spurious Emissions radiated – Transmitter operating	15.247(c): 15.209	☒	☒	☐
Band Edge Measurement	15.247(c)	☒	☒	☐
Minimum 6 dB Bandwidth	15.247(a)(2)	☒	☒	☐
Peak Power Spectral Density	15.247(d)	☒	☒	☐
Radiated Emission from Digital Part	15.109	☐	☐	☐
Power Line Conducted Emission	15.207	☒	☒	☐

The follows is intended to leave blank.

Registration number: W6D21210-12823-C-1
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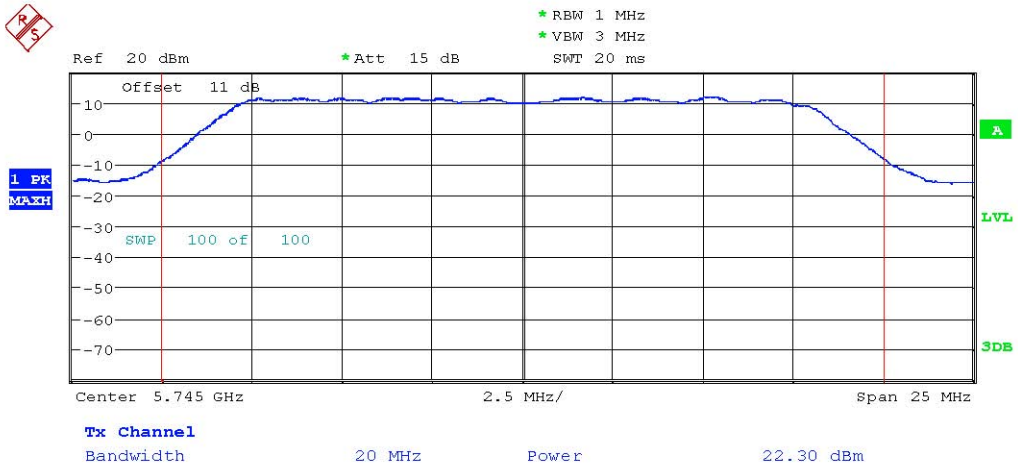
3.1 Peak Output Power (transmitter)

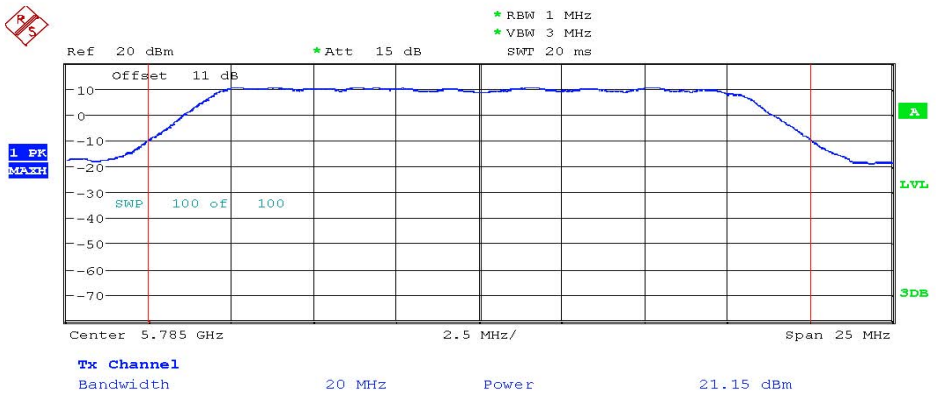
FCC Rule: 15.247(b)(3)

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

Mode A

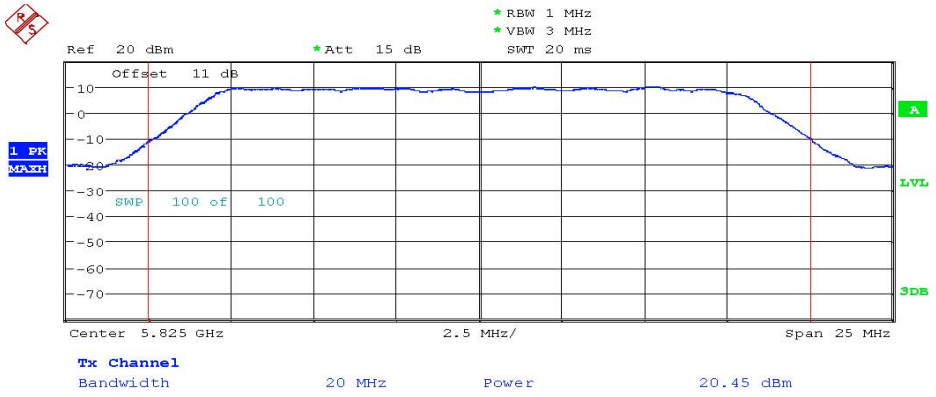


MAX OUTPUT POWER 802.11A CH149
Date: 21.DEC.2012 06:48:16



MAX OUTPUT POWER 802.11A CH157

Date: 21.DEC.2012 06:13:24

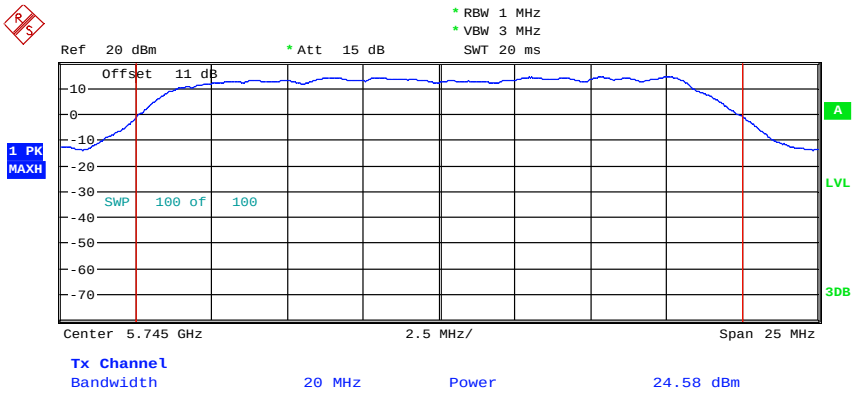


MAX OUTPUT POWER 802.11A CH165

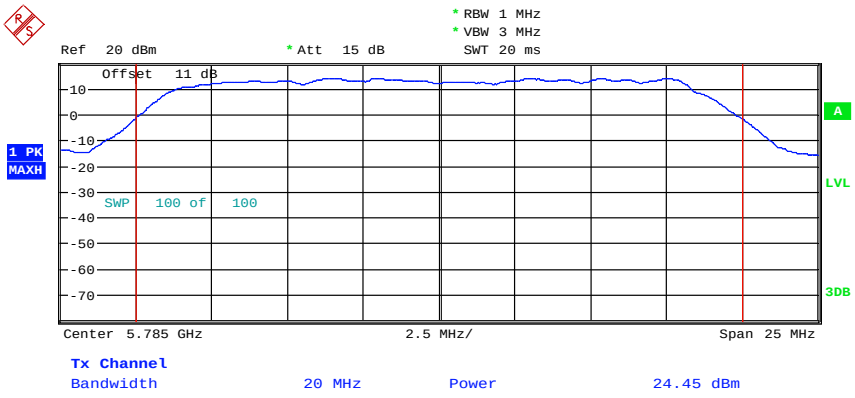
Date: 21.DEC.2012 06:15:41

Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N

Mode B

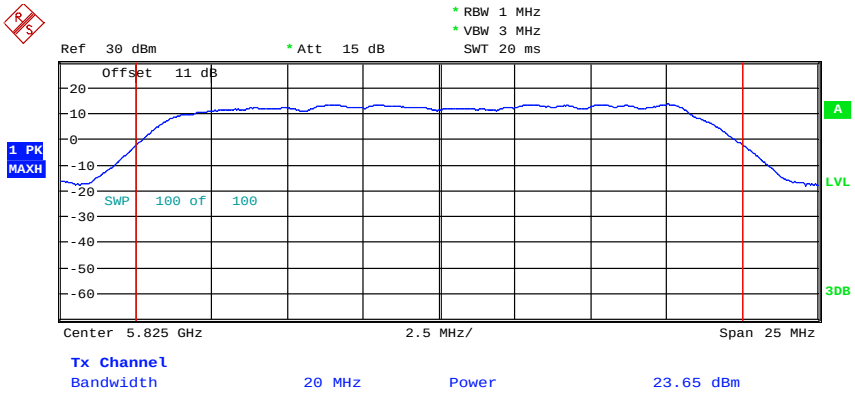


MAX OUTPUT POWER 802.11N 20MHZ CH149
Date: 23.NOV.2012 09:04:29



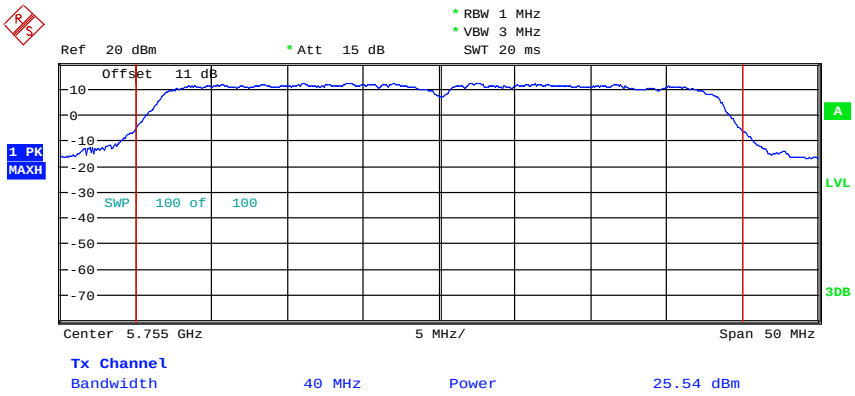
MAX OUTPUT POWER 802.11N 20MHZ CH157
Date: 23.NOV.2012 09:05:36

Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N



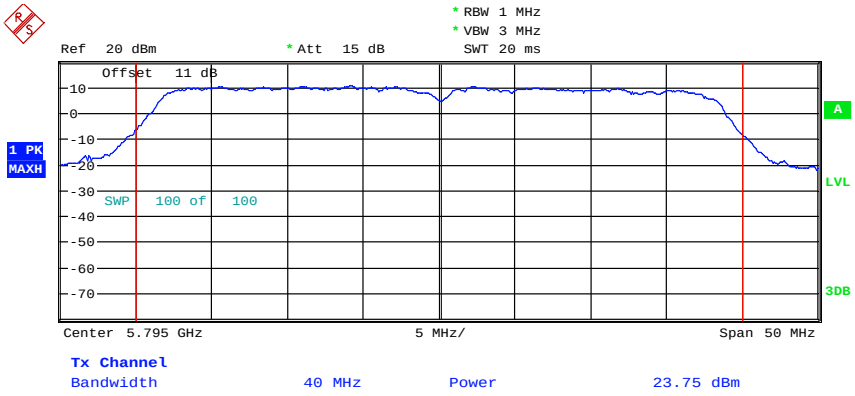
MAX OUTPUT POWER 802.11N 20MHZ CH165
Date: 23.NOV.2012 09:06:31

Mode C

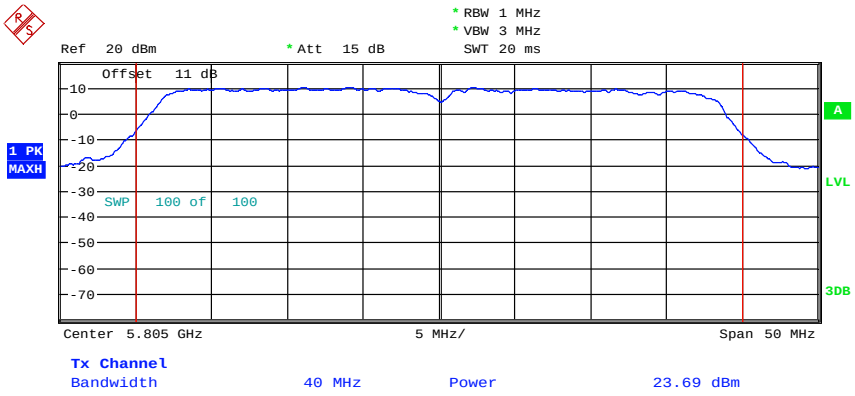


MAX OUTPUT POWER 802.11N 40MHZ CH151
Date: 23.NOV.2012 09:18:09

Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N



MAX OUTPUT POWER 802.11N 40MHZ CH159
Date: 23.NOV.2012 09:34:45



MAX OUTPUT POWER 802.11N 40MHz CH161
Date: 23.NOV.2012 09:58:42

Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N

Limits:

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

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

Test equipment used: ETSTW-RE 055

3.2 Equivalent isotropic radiated power

FCC Rule: 15.247(c)(1)

Systems operating in the 5725–5850 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted output power.

Test equipment used: ETSTW-RE 055

3.3 RF Exposure Compliance Requirements

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 0.2 m normally can be maintained between the user and the device.

3.3.1 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 0.2 m normally can be maintained between the user and the device.

3.3.2 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 Gain	Power Density(S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
0.36	11.13	0.93	1.0	Complies

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2 m, as well as the gain of the used antenna, the RF power density can be obtained.

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3.4 Transmitter Radiated Emissions in Restricted Bands

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

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

Limits.

For frequencies below 1GHz:

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

For frequencies above 1GHz (Average measurements).

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

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

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

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

Explanation: See attached diagrams in Appendix.

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3.5 Spurious Emissions (tx)

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

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

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

Limits:

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

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

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

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

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

Test equipment used: ETSTW-RE 003, ETSTW-RE 004, ETSTW-RE 018, ETSTW-RE 030, ETSTW-RE 044, ETSTW-RE 111

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

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

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

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

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

Summary table with radiated data of the test plots
Patch antenna

Model: AirMax5N Date: 2011/5/10~ 2012/12/18
Mode: 802.11a ch149 Temperature: 30.8 °C Engineer: Kevin
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)
133.3467	22.45	peak	14.93	37.38	43.50	-6.12	100	100
611.4228	3.16	peak	22.86	26.02	46.00	-19.98	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)
7663.3270	40.79	---	6.80	47.59	---	74.00	54.00	-26.41	240	100
11490.0000	33.39	---	12.45	45.84	---	74.00	54.00	-28.16	240	100
15601.2020	31.8	---	19.20	51.00	---	74.00	54.00	-23.00	110	100
17235.0000	30.46	---	20.41	50.87	---	74.00	54.00	-23.13	220	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
171.7635	18.33	peak	15.39	33.72	43.50	-9.78	130	100
335.0701	10.25	peak	16.85	27.10	46.00	-18.90	130	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)
7567.1340	40.69	---	6.65	47.34	---	74.00	54.00	-26.66	220	100
11490.0000	34.38	---	12.45	46.83	---	74.00	54.00	-27.17	130	100
15601.2020	31.92	---	19.20	51.12	---	74.00	54.00	-22.88	230	100
17235.0000	30.35	---	20.41	50.76	---	74.00	54.00	-23.24	110	100

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FCC ID: ODMAM5N

Mode: 802.11a ch157
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
171.7635	24.80	peak	15.39	40.19	43.50	-3.31	120	100
610.0200	3.52	peak	22.84	26.36	46.00	-19.64	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)
7318.6370	40.66	---	6.92	47.58	---	74.00	54.00	-26.42	130	100
11570.0000	33.91	---	12.22	46.13	---	74.00	54.00	-27.87	240	100
15569.6390	32.21	---	18.86	51.07	---	74.00	54.00	-22.93	50	100
17355.0000	30.08	---	21.34	51.42	---	74.00	54.00	-22.58	170	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
169.0581	19.66	peak	15.59	35.25	43.50	-8.25	210	100
608.6172	4.72	peak	22.83	27.55	46.00	-18.45	130	150

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)
4505.0100	42.68	---	4.65	47.33	---	74.00	54.00	-26.67	260	150
11570.0000	33.7	---	12.22	45.92	---	74.00	54.00	-28.08	120	100
15601.2020	32.04	---	19.20	51.24	---	74.00	54.00	-22.76	310	100
17355.0000	29.83	---	21.34	51.17	---	74.00	54.00	-22.83	170	100

Mode: 802.11a ch165
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
133.3467	24.56	peak	14.93	39.49	43.50	-4.01	130	100
611.4228	4.86	peak	22.86	27.72	46.00	-18.28	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)
7382.7660	40.71	---	6.84	47.55	---	74.00	54.00	-26.45	240	100
11650.0000	34.65	---	12.38	47.03	---	74.00	54.00	-26.97	240	100
15611.7230	31.50	---	18.96	50.46	---	74.00	54.00	-23.54	60	100
17475.0000	28.34	---	21.40	49.74	---	74.00	54.00	-24.26	230	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
133.3467	20.03	peak	14.93	34.96	43.50	-8.54	240	100
608.6172	4.44	peak	22.83	27.27	46.00	-18.73	270	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)
7326.6530	40.79	---	6.91	47.70	---	74.00	54.00	-26.30	180	100
11650.0000	33.72	---	12.38	46.10	---	74.00	54.00	-27.90	210	100
15548.5970	32.00	---	18.60	50.6	---	74.00	54.00	-23.40	160	100
17475.0000	29.14	---	21.40	50.54	---	74.00	54.00	-23.46	30	100

Mode: 801.11n 20M CH149

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
306.0321	26.97	peak	15.70	42.67	46.00	-3.33	130	100
399.3387	24.48	peak	18.18	42.66	46.00	-3.34	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)
1601.2020	48.25	44.87	-8.99	39.26	35.88	74.00	54.00	-18.12	155	100
2130.2600	45.78	42.61	-6.53	39.25	36.08	74.00	54.00	-17.92	120	100
5106.2120	47.66	46.38	-0.65	47.01	45.73	74.00	54.00	-8.27	130	100
11493.4870	40.79	34.96	10.03	50.82	44.99	74.00	54.00	-9.01	210	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	23.64	peak	14.07	37.71	40.00	-2.29	140	100
399.3387	21.58	peak	18.18	39.76	46.00	-6.24	130	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)
1601.2020	47.56	44.29	-8.99	38.57	35.30	74.00	54.00	-18.70	145	100
2400.8020	45.84	42.65	-5.84	40.00	36.81	74.00	54.00	-17.19	130	100
5218.4370	48.37	44.75	-0.13	48.24	44.62	74.00	54.00	-9.38	160	100
11503.0060	43.70	36.74	10.04	53.74	46.78	74.00	54.00	-7.22	360	100

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Mode: 801.11n 20M CH157
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
306.0321	25.82	peak	15.70	41.52	46.00	-4.48	160	100
399.3387	23.36	peak	18.18	41.54	46.00	-4.46	135	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)
2130.2600	54.98	49.16	-6.53	48.45	42.63	74.00	54.00	-11.37	145	100
2400.8020	49.57	45.76	-5.84	43.73	39.92	74.00	54.00	-14.08	100	100
5306.6130	45.88	42.19	-0.09	45.79	42.10	74.00	54.00	-11.90	175	100
11579.1580	37.93	35.75	9.66	47.59	45.41	74.00	54.00	-8.59	160	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	23.75	peak	14.07	37.82	40.00	-2.18	110	100
68.8777	25.54	peak	11.42	36.96	40.00	-3.04	145	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)
1601.2020	48.46	43.61	-8.99	39.47	34.62	74.00	54.00	-19.38	160	100
2316.6330	44.87	42.16	-6.12	38.75	36.04	74.00	54.00	-17.96	110	100
5306.6130	46.62	43.37	-0.09	46.53	43.28	74.00	54.00	-10.72	240	100
11569.6390	46.57	38.67	9.71	56.28	48.38	74.00	54.00	-5.62	0	100

Mode: 801.11n 20M CH165
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
306.0321	25.51	peak	15.70	41.21	46.00	-4.79	130	100
399.3387	23.83	peak	18.18	42.01	46.00	-3.99	240	100

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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)
2130.2600	54.88	49.63	-6.53	48.35	43.10	74.00	54.00	-10.90	140	100
2268.5370	50.21	45.16	-6.25	43.96	38.91	74.00	54.00	-15.09	110	100
4657.3150	49.02	45.26	-1.58	47.44	43.68	74.00	54.00	-10.32	175	100
11655.3110	36.77	33.15	9.89	46.66	43.04	74.00	54.00	-10.96	150	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	22.71	peak	14.07	36.78	40.00	-3.22	110	100
68.8777	25.17	peak	11.42	36.59	40.00	-3.41	140	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)
1601.2020	47.30	44.38	-8.99	38.31	35.39	74.00	54.00	-18.61	130	100
2400.8020	45.83	42.16	-5.84	39.99	36.32	74.00	54.00	-17.68	220	100
5306.6130	47.47	43.57	-0.09	47.38	43.48	74.00	54.00	-10.52	135	100
11655.3110	44.74	37.69	9.89	54.63	47.58	74.00	54.00	-6.42	245	100

Mode: 801.11n 40M CH151
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
306.0321	25.54	peak	15.70	41.24	46.00	-4.76	120	100
399.3387	23.73	peak	18.18	41.91	46.00	-4.09	170	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)
1595.1900	48.52	43.55	-9.04	39.48	34.51	74.00	54.00	-19.49	145	100
5122.2440	46.91	43.29	-0.56	46.35	42.73	74.00	54.00	-11.27	135	100
7206.4130	41.86	38.65	4.16	46.02	42.81	74.00	54.00	-11.19	210	100
11512.5250	38.60	34.31	10.00	48.60	44.31	74.00	54.00	-9.69	230	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	23.75	peak	14.07	37.82	40.00	-2.18	130	100
399.3387	25.68	peak	18.18	43.86	46.00	-2.14	145	100

Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N

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)
1601.2020	46.52	44.27	-8.99	37.53	35.28	74.00	54.00	-18.72	165	100
2304.6090	46.23	43.39	-6.16	40.07	37.23	74.00	54.00	-16.77	130	100
5226.4530	46.84	43.56	-0.13	46.71	43.43	74.00	54.00	-10.57	110	100
11512.5250	43.02	35.66	10.00	53.02	45.66	74.00	54.00	-8.34	110	100

Mode: 801.11n 40M CH159
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
399.3387	17.23	peak	18.18	35.41	46.00	-10.59	155	100
500.4207	15.30	peak	20.21	35.51	46.00	-10.49	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)
2112.2240	43.99	41.33	-6.56	37.43	34.77	74.00	54.00	-19.23	175	100
2430.8620	43.49	41.56	-5.74	37.75	35.82	74.00	54.00	-18.18	130	100
4633.2660	46.90	41.39	-1.53	45.37	39.86	74.00	54.00	-14.14	110	100
11607.7150	39.79	35.53	9.61	49.40	45.14	74.00	54.00	-8.86	185	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	20.55	peak	14.07	34.62	40.00	-5.38	100	100
399.3387	20.48	peak	18.18	38.66	46.00	-7.34	175	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)
1601.2020	46.66	43.27	-8.99	37.67	34.28	74.00	54.00	-19.72	145	100
2316.6330	45.98	43.51	-6.12	39.86	37.39	74.00	54.00	-16.61	230	100
5306.6130	45.18	42.59	-0.09	45.09	42.50	74.00	54.00	-11.50	135	100
11588.6770	45.60	40.56	9.62	55.22	50.18	74.00	54.00	-3.82	225	100

Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N

Mode: 801.11n 40M CH161
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
306.0321	26.32	peak	15.70	42.02	46.00	-3.98	190	100
399.3387	26.28	QP	18.18	44.46	46.00	-1.54	150	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)
1889.7800	43.90	40.71	-7.03	36.87	33.68	74.00	54.00	-20.32	175	100
3038.0760	42.77	40.56	-3.91	38.86	36.65	74.00	54.00	-17.35	130	100
4641.2830	46.48	43.61	-1.55	44.93	42.06	74.00	54.00	-11.94	140	100
11617.2350	39.52	35.69	9.66	49.18	45.35	74.00	54.00	-8.65	230	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	23.77	peak	14.07	37.84	40.00	-2.16	175	100
399.3387	23.32	peak	18.18	41.50	46.00	-4.50	130	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)
1865.7320	45.65	43.26	-7.29	38.36	35.97	74.00	54.00	-18.03	220	100
2400.8020	45.04	42.75	-5.84	39.20	36.91	74.00	54.00	-17.09	130	100
5298.5970	46.17	43.14	-0.10	46.07	43.04	74.00	54.00	-10.96	160	100
11607.7150	43.99	38.55	9.61	53.60	48.16	74.00	54.00	-5.84	235	100

Dipole antenna

Mode: 802.11a ch149
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
171.7635	22.58	peak	14.43	37.01	43.50	-6.49	260	100
611.4228	4.80	peak	21.72	26.52	46.00	-19.48	270	100

Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N

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)
7663.3270	40.79	---	6.80	47.59	---	74.00	54.00	-26.41	240	100
11490.0000	33.27	---	12.45	45.72	---	74.00	54.00	-28.28	240	100
15601.2020	32.30	---	19.20	51.5	---	74.00	54.00	-22.50	260	100
17235.0000	30.96	---	20.41	51.37	---	74.00	54.00	-22.63	70	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
130.6413	19.95	peak	13.75	33.70	43.50	-9.80	270	100
610.0200	3.86	peak	21.70	25.56	46.00	-20.44	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)
7390.7820	40.46	---	6.83	47.29	---	74.00	54.00	-26.71	260	100
11490.0000	34.43	---	12.45	46.88	---	74.00	54.00	-27.12	160	100
15611.7230	31.72	---	18.96	50.68	---	74.00	54.00	-23.32	60	100
17235.0000	29.35	---	20.41	49.76	---	74.00	54.00	-24.24	270	100

Mode: 802.11a ch157
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
171.7635	25.76	peak	14.43	40.19	43.50	-3.31	270	100
991.5832	6.80	peak	26.67	33.47	54.00	-20.53	250	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)
7687.3750	41.47	---	6.83	48.30	---	74.00	54.00	-25.70	260	100
11570.0000	34.38	---	12.21	46.59	---	74.00	54.00	-27.41	160	100
17355.0000	28.58	---	21.34	49.92	---	74.00	54.00	-24.08	130	100
17631.7640	31.50	---	20.14	51.64	---	74.00	54.00	-22.36	270	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
133.3466	22.12	peak	13.97	36.09	43.50	-7.41	280	100
608.6172	4.82	peak	21.69	26.51	46.00	-19.49	170	100

Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N

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)
4657.3150	42.61	---	4.49	47.10	---	74.00	54.00	-26.90	130	100
11570.0000	34.58	---	12.21	46.79	---	74.00	54.00	-27.21	160	100
15958.9180	32.29	---	18.41	50.7	---	74.00	54.00	-23.30	90	100
17355.0000	29.27	---	21.34	50.61	---	74.00	54.00	-23.39	240	100

Mode: 802.11a ch165
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
172.3046	24.04	peak	14.38	38.42	43.50	-5.08	250	100
610.0200	5.32	peak	21.70	27.02	46.00	-18.98	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)
7711.4230	40.80	---	6.85	47.65	---	74.00	54.00	-26.35	130	100
11650.0000	34.51	---	12.38	46.89	---	74.00	54.00	-27.11	250	100
16032.5650	31.70	---	18.63	50.33	---	74.00	54.00	-23.67	220	100
17475.0000	29.28	---	21.40	50.68	---	74.00	54.00	-23.32	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)
132.2645	21.86	peak	13.88	35.74	43.50	-7.76	270	100
608.6172	5.01	peak	21.69	26.70	46.00	-19.30	130	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)
7478.9580	41.11	---	6.57	47.68	---	74.00	54.00	-26.32	170	100
11650.0000	33.79	---	12.38	46.17	---	74.00	54.00	-27.83	50	100
15948.3970	31.95	---	18.43	50.38	---	74.00	54.00	-23.62	60	100
17475.0000	28.64	---	21.40	50.04	---	74.00	54.00	-23.96	125	100

Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N

Mode: 801.11n 20M CH149
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
306.0321	25.84	peak	15.70	41.54	46.00	-4.46	145	100
792.0040	15.03	peak	25.27	40.30	46.00	-5.70	230	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)
1601.2020	48.26	43.59	-8.99	39.27	34.60	74.00	54.00	-19.40	150	100
2298.5970	44.63	42.16	-6.18	38.45	35.98	74.00	54.00	-18.02	230	100
5138.2770	50.53	45.67	-0.47	50.06	45.20	74.00	54.00	-8.80	135	100
11493.4870	37.53	35.40	10.03	47.56	45.43	74.00	54.00	-8.57	160	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
76.6533	26.85	peak	9.94	36.79	40.00	-3.21	135	100
187.4550	24.03	peak	13.01	37.04	43.50	-6.46	285	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)
1330.6610	47.40	43.29	-9.87	37.53	33.42	74.00	54.00	-20.58	160	100
2400.8020	47.43	44.61	-5.84	41.59	38.77	74.00	54.00	-15.23	245	100
5274.5490	46.77	43.25	-0.11	46.66	43.14	74.00	54.00	-10.86	140	100
11493.4870	46.04	39.94	10.03	56.07	49.97	74.00	54.00	-4.03	355	100

Mode: 801.11n 20M CH157
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
306.0321	25.31	peak	15.70	41.01	46.00	-4.99	260	100
399.3387	26.27	peak	18.18	44.45	46.00	-1.55	135	100

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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)
1595.1900	47.77	45.11	-9.04	38.73	36.07	74.00	54.00	-17.93	245	100
2130.2600	44.42	41.90	-6.53	37.89	35.37	74.00	54.00	-18.63	130	100
5146.2920	51.96	47.66	-0.43	51.53	47.23	74.00	54.00	-6.77	155	100
11569.6390	37.83	35.19	9.71	47.54	44.90	74.00	54.00	-9.10	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	22.11	peak	14.07	36.18	40.00	-3.82	130	100
78.5972	26.75	peak	9.57	36.32	40.00	-3.68	225	100
399.3387	24.27	peak	18.18	42.45	46.00	-3.55	165	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)
1889.7800	45.68	43.75	-7.03	38.65	36.72	74.00	54.00	-17.28	210	100
2400.8020	47.44	45.12	-5.84	41.60	39.28	74.00	54.00	-14.72	160	100
5266.5330	46.96	43.56	-0.11	46.85	43.45	74.00	54.00	-10.55	155	100
11569.6390	46.48	39.53	9.71	56.19	49.24	74.00	54.00	-4.76	235	100

Mode: 801.11n 20M CH165
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
306.0321	24.17	peak	15.70	39.87	46.00	-6.13	170	100
399.3387	21.18	peak	18.18	39.36	46.00	-6.64	155	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)
1601.2020	47.21	44.39	-8.99	38.22	35.40	74.00	54.00	-18.60	155	100
2100.2000	45.07	42.17	-6.58	38.49	35.59	74.00	54.00	-18.41	260	100
5146.2920	49.34	45.67	-0.43	48.91	45.24	74.00	54.00	-8.76	135	100
11655.3110	36.08	33.15	9.89	45.97	43.04	74.00	54.00	-10.96	125	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
76.6533	26.59	peak	9.94	36.53	40.00	-3.47	135	100
871.7033	16.01	peak	26.16	42.17	46.00	-3.83	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)
1330.6610	47.24	44.83	-9.87	37.37	34.96	74.00	54.00	-19.04	110	100
2400.8020	48.05	45.63	-5.84	42.21	39.79	74.00	54.00	-14.21	225	100
5186.3730	47.97	44.59	-0.21	47.76	44.38	74.00	54.00	-9.62	160	100
11655.3110	45.19	38.96	9.89	55.08	48.85	74.00	54.00	-5.15	250	100

Mode: 801.11n 40M CH151

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
399.3387	21.22	peak	18.18	39.40	46.00	-6.60	130	100
959.1784	14.55	peak	27.53	42.08	46.00	-3.92	155	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)
1282.5650	48.39	45.30	-9.88	38.51	35.42	74.00	54.00	-18.58	240	100
1601.2020	47.63	43.67	-8.99	38.64	34.68	74.00	54.00	-19.32	190	100
5146.2920	49.79	45.69	-0.43	49.36	45.26	74.00	54.00	-8.74	235	100
11522.0440	37.71	33.55	9.95	47.66	43.50	74.00	54.00	-10.50	230	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	23.81	peak	14.07	37.88	40.00	-2.12	210	100
76.6533	26.50	peak	9.94	36.44	40.00	-3.56	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)
1889.7800	45.64	43.26	-7.03	38.61	36.23	74.00	54.00	-17.77	130	100
2400.8020	47.39	44.15	-5.84	41.55	38.31	74.00	54.00	-15.69	160	100
5218.4370	46.67	43.54	-0.13	46.54	43.41	74.00	54.00	-10.59	155	100
11512.5250	45.78	38.65	10.00	55.78	48.65	74.00	54.00	-5.35	260	100

Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N

Mode: 801.11n 40M CH159
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
399.3387	20.69	peak	18.18	38.87	46.00	-7.13	160	100
873.6472	13.02	peak	26.18	39.20	46.00	-6.80	250	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)
1282.5650	49.14	46.43	-9.88	39.26	36.55	74.00	54.00	-17.45	240	100
1601.2020	48.35	45.12	-8.99	39.36	36.13	74.00	54.00	-17.87	130	100
5146.2920	49.58	46.59	-0.43	49.15	46.16	74.00	54.00	-7.84	245	100
11588.6770	37.44	34.36	9.62	47.06	43.98	74.00	54.00	-10.02	220	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	22.15	peak	14.07	36.22	40.00	-3.78	350	100
399.3387	24.03	peak	18.18	42.21	46.00	-3.79	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)
1330.6610	47.33	43.55	-9.87	37.46	33.68	74.00	54.00	-20.32	130	100
2400.8020	48.00	44.67	-5.84	42.16	38.83	74.00	54.00	-15.17	155	100
5274.5490	47.06	44.46	-0.11	46.95	44.35	74.00	54.00	-9.65	260	100
11588.6770	45.36	38.94	9.62	54.98	48.56	74.00	54.00	-5.44	230	100

Mode: 801.11n 40M CH161
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
399.3387	20.51	peak	18.18	38.69	46.00	-7.31	160	100
871.7033	15.93	peak	26.16	42.09	46.00	-3.91	55	100

Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N

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)
1601.2020	47.89	43.56	-8.99	38.90	34.57	74.00	54.00	-19.43	155	100
2094.1880	44.52	41.39	-6.59	37.93	34.80	74.00	54.00	-19.20	130	100
5146.2920	49.32	46.59	-0.43	48.89	46.16	74.00	54.00	-7.84	160	100
11607.7150	38.26	34.19	9.61	47.87	43.80	74.00	54.00	-10.20	220	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
37.7754	22.70	peak	13.52	36.22	40.00	-3.78	145	100
187.4550	23.39	peak	13.01	36.40	43.50	-7.10	250	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)
1330.6610	47.55	45.11	-9.87	37.68	35.24	74.00	54.00	-18.76	260	100
2400.8020	47.72	44.67	-5.84	41.88	38.83	74.00	54.00	-15.17	110	100
5266.5330	46.75	44.25	-0.11	46.64	44.14	74.00	54.00	-9.86	110	100
11607.7150	45.08	38.66	9.61	54.69	48.27	74.00	54.00	-5.73	245	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.

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

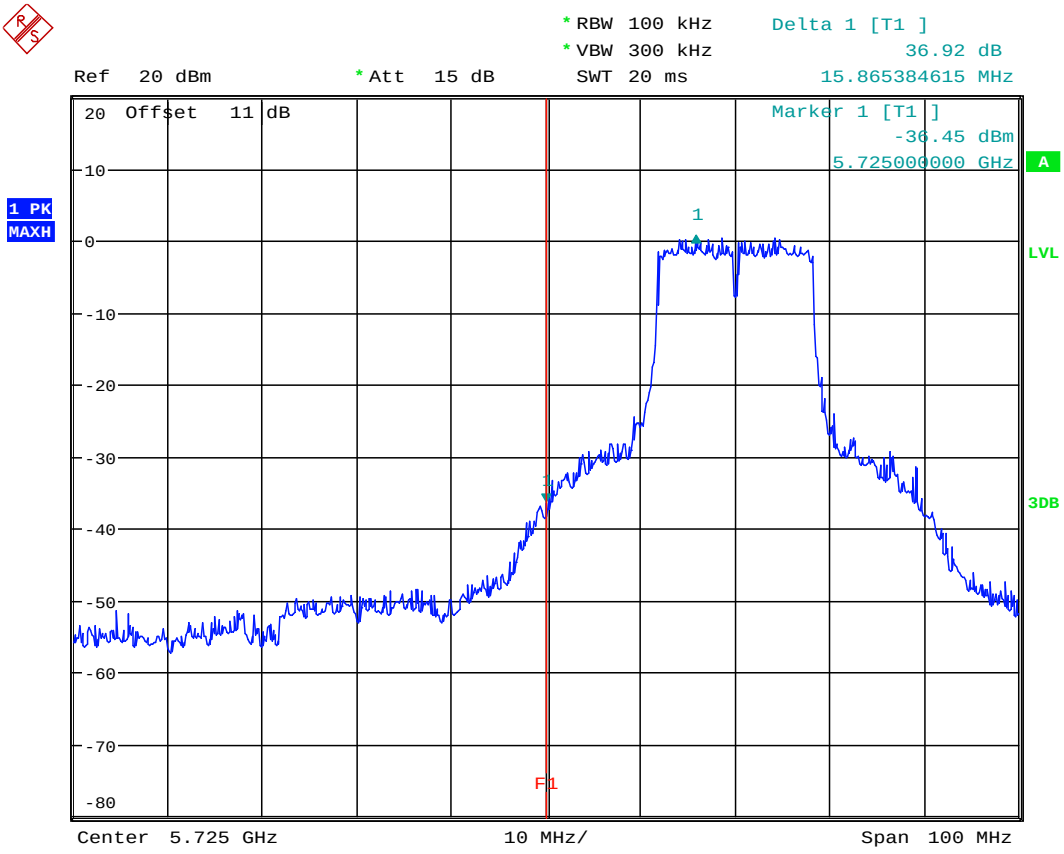
Test equipment used: ETSTW-RE 003, ETSTW-RE 004, ETSTW-RE 018, ETSTW-RE 019
ETSTW-RE 030, ETSTW-RE 044, ETSTW-RE 111

3.6 Radiated Emission on the band edge

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

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

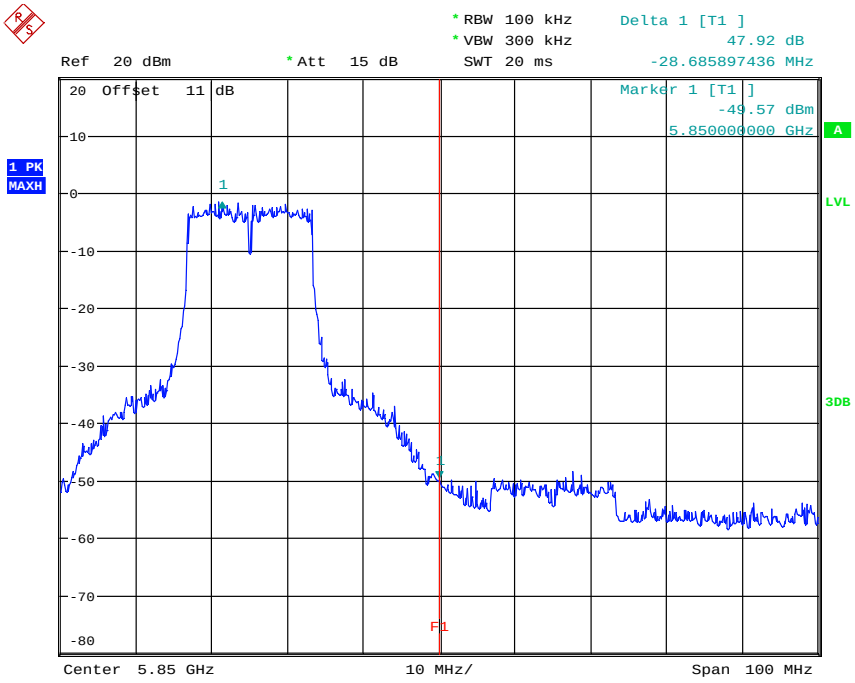
Mode A



BANDEDGE 802.11A CH149

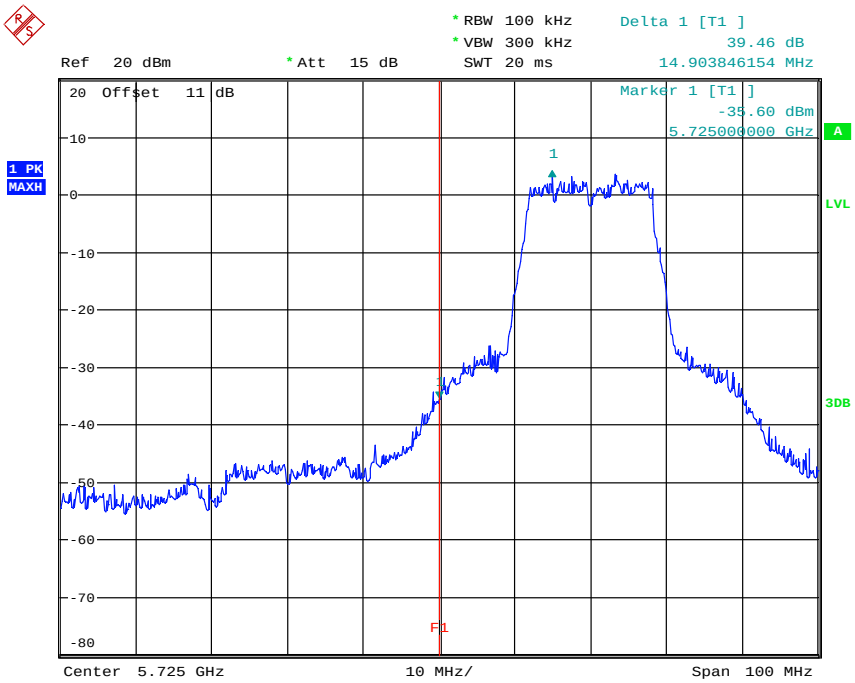
Date: 21.DEC.2012 06:10:44

Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N



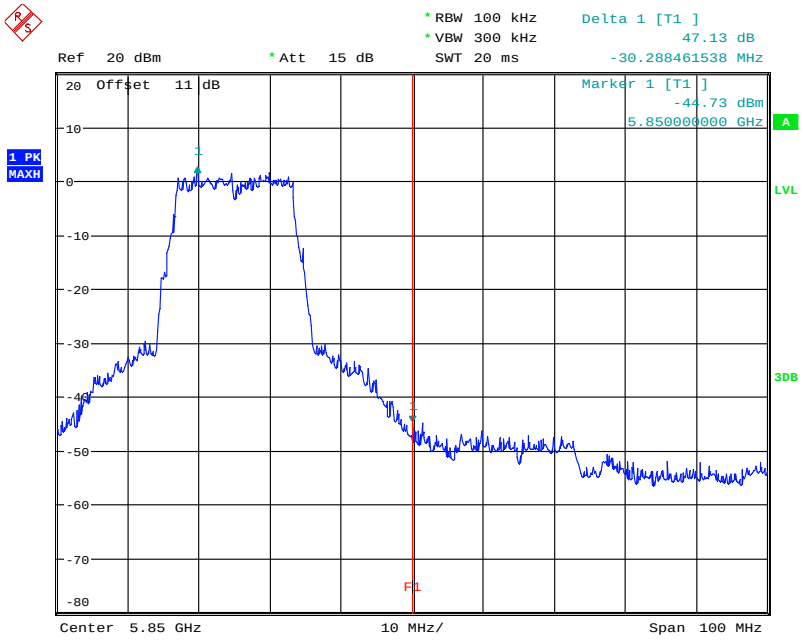
BANDEDGE 802.11A CH165
Date: 21.DEC.2012 06:16:02

Mode B



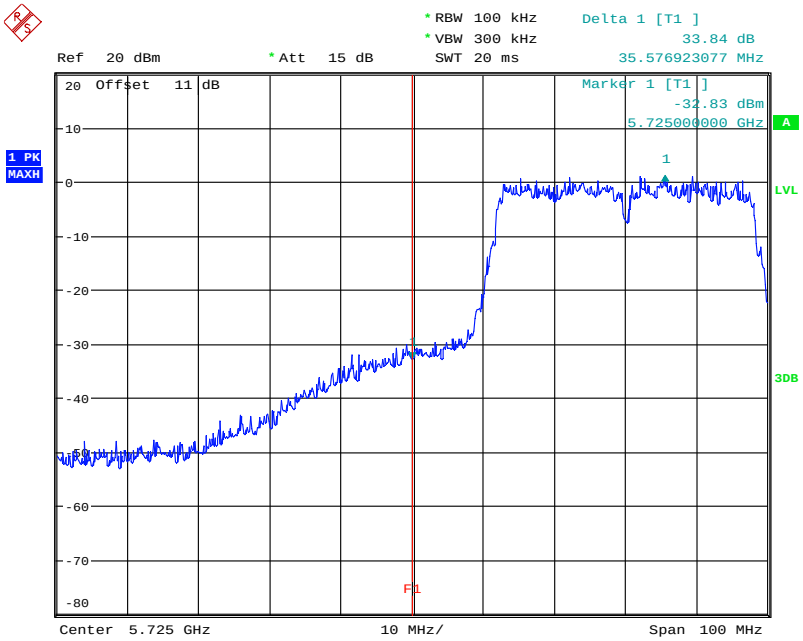
BANDEDGE 802.11N 20MHZ CH149
Date: 23.NOV.2012 09:04:48

Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N



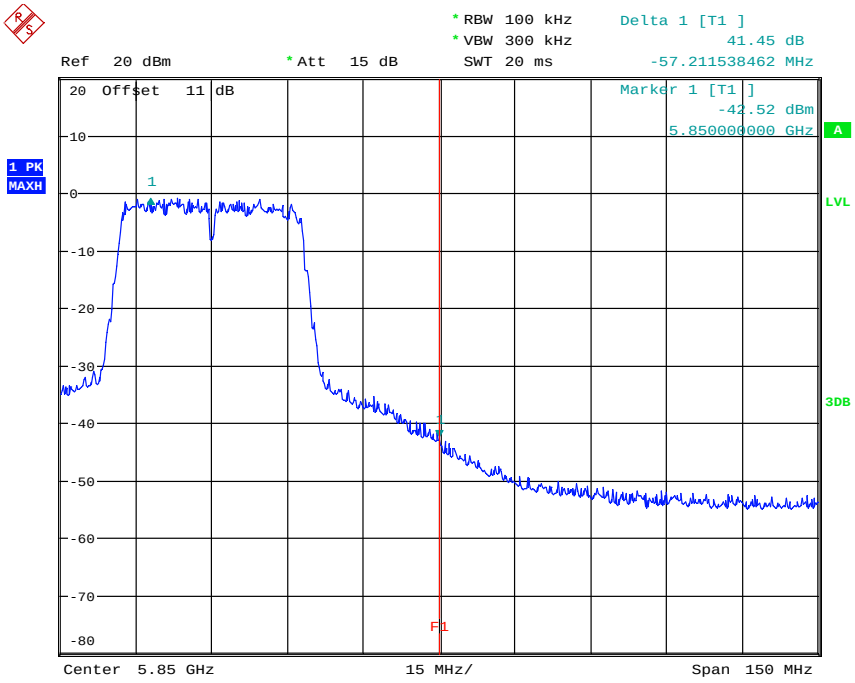
BANDEDGE 802.11N 20MHZ CH165
Date: 23.NOV.2012 09:06:51

Mode C



BANDEDGE 802.11N 40MHZ CH151
Date: 23.NOV.2012 09:18:29

Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N



BANDEDGE 802.11N 40MHz CH161
Date: 23.NOV.2012 10:05:07

Limit:

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

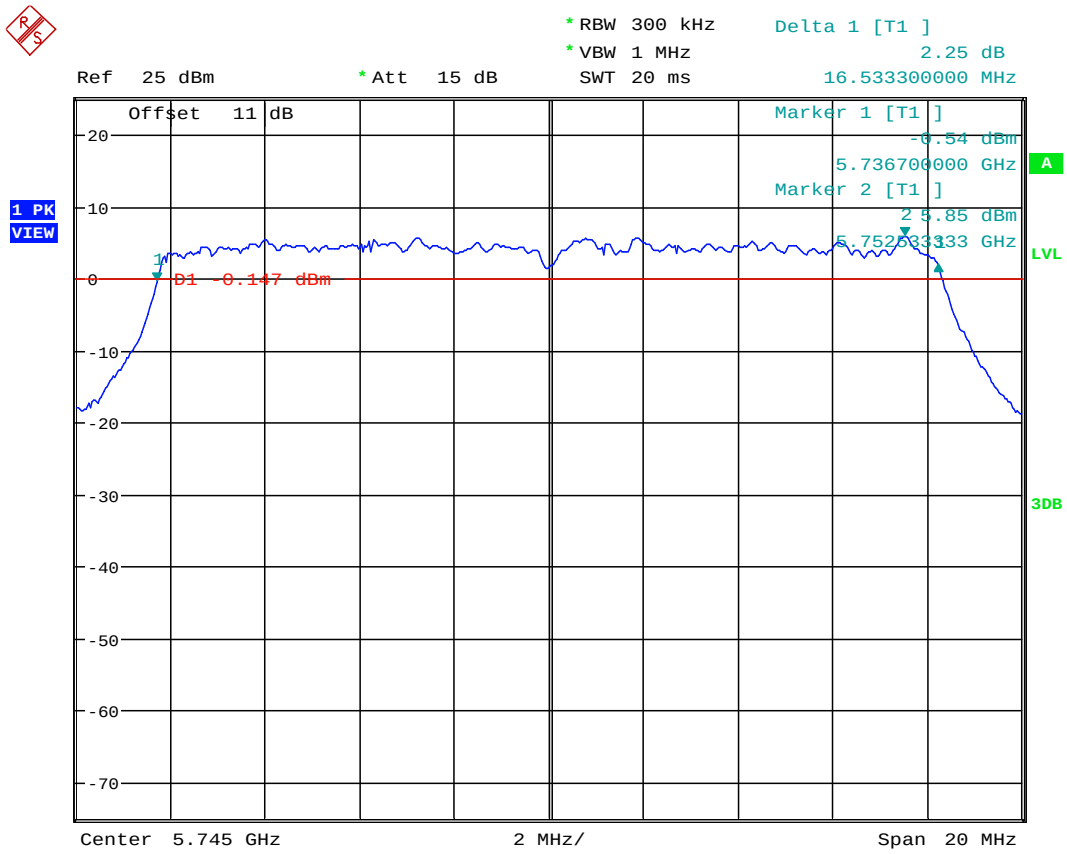
Test equipment used: ETSTW-RE 055

Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N

3.7 Minimum 6 dB Bandwidth

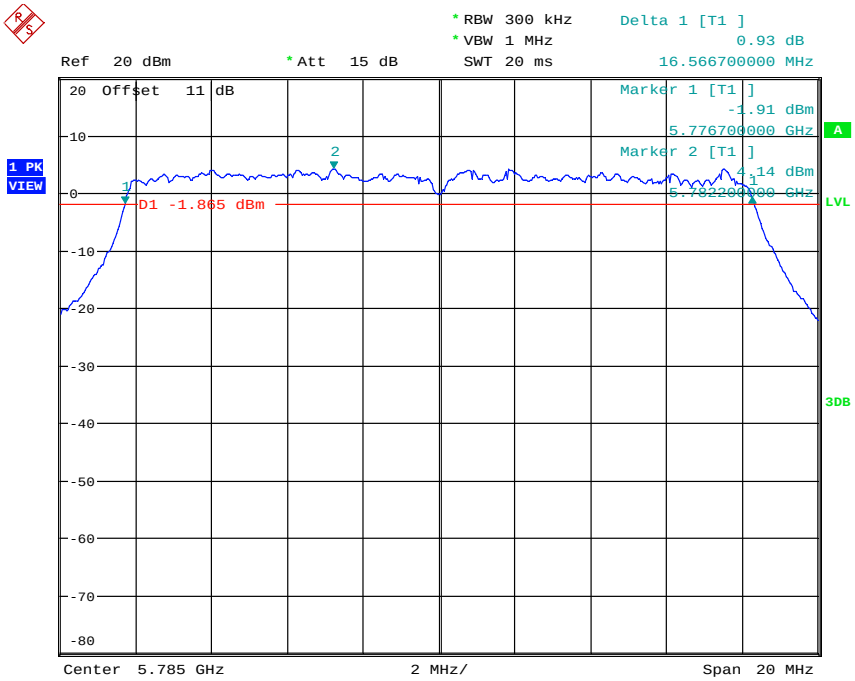
The analyzer ResBW was set to 100 kHz. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A PEAK reading was taken, two markers were set 6 dB below the maximum level on the right and the left side of the emission.
The 6 dB bandwidth is the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

Mode A



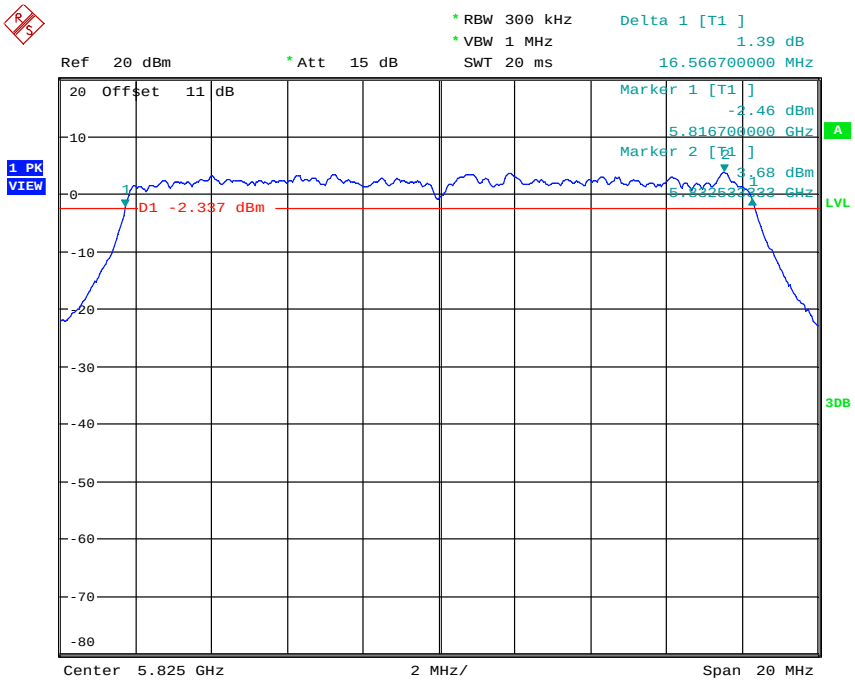
6DB BANDWIDTH 802.11A CH149
Date: 21.DEC.2012 06:10:32

Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N



6DB BANDWIDTH 802.11A CH157

Date: 21.DEC.2012 06:13:33

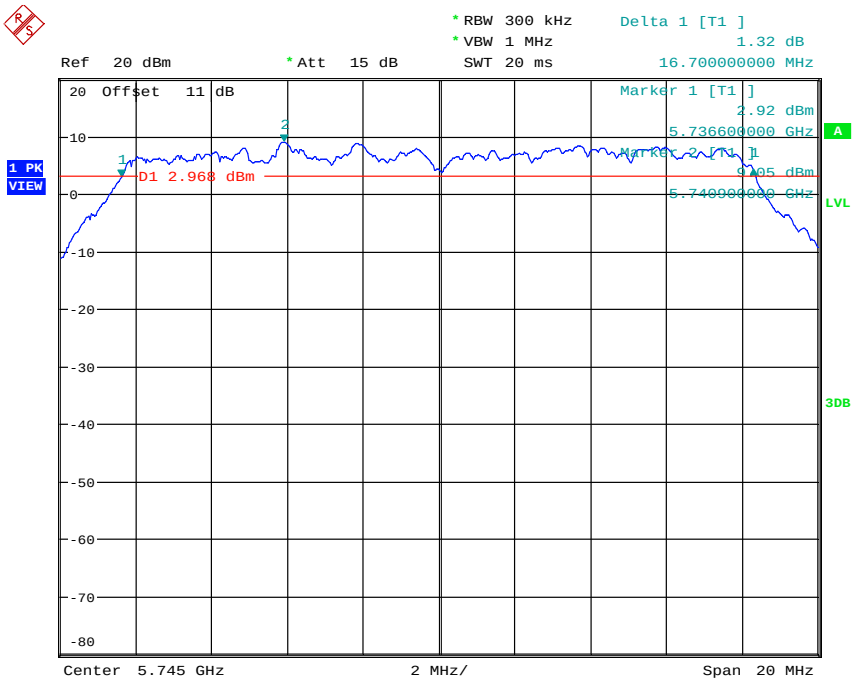


6DB BANDWIDTH 802.11A CH165

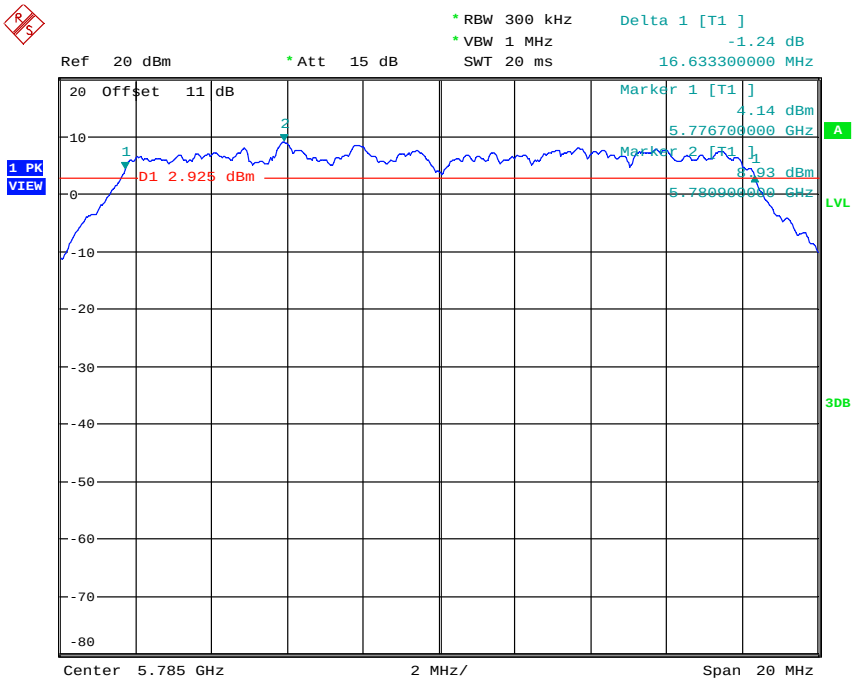
Date: 21.DEC.2012 06:15:50

Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N

Mode B

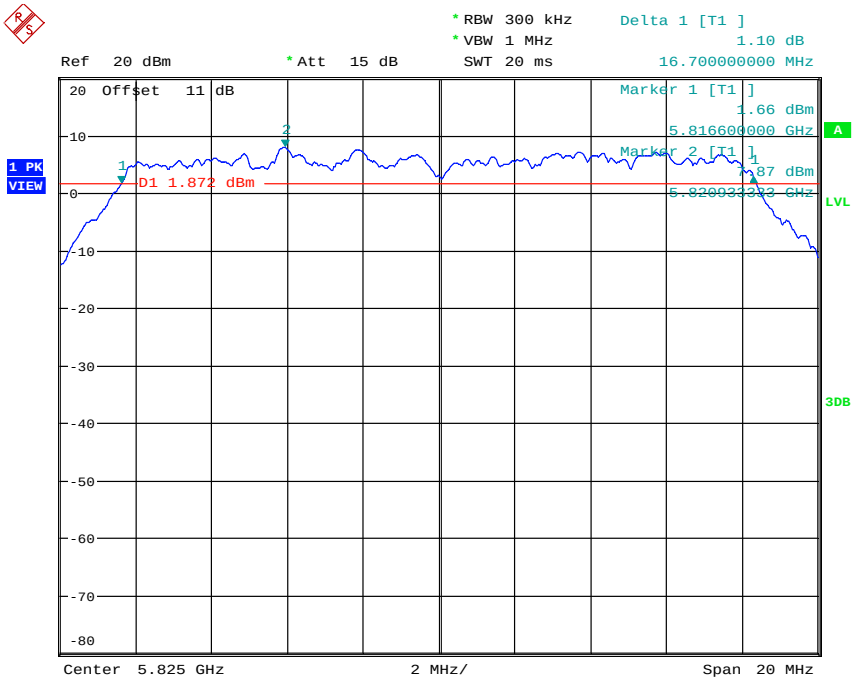


6DB BANDWIDTH 802.11N 20MHZ CH149
Date: 23.NOV.2012 09:04:37



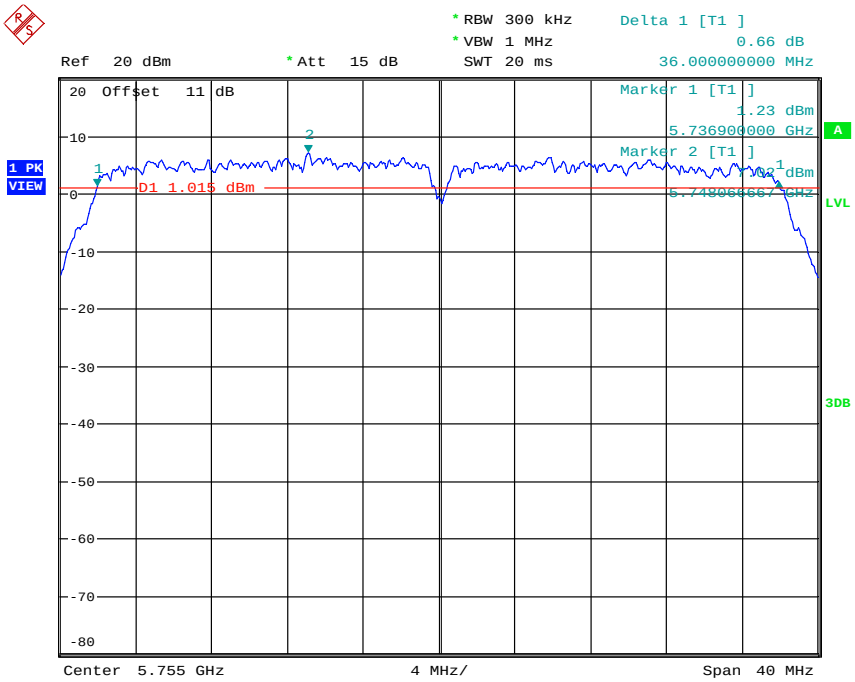
6DB BANDWIDTH 802.11N 20MHZ CH157
Date: 23.NOV.2012 09:05:44

Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N



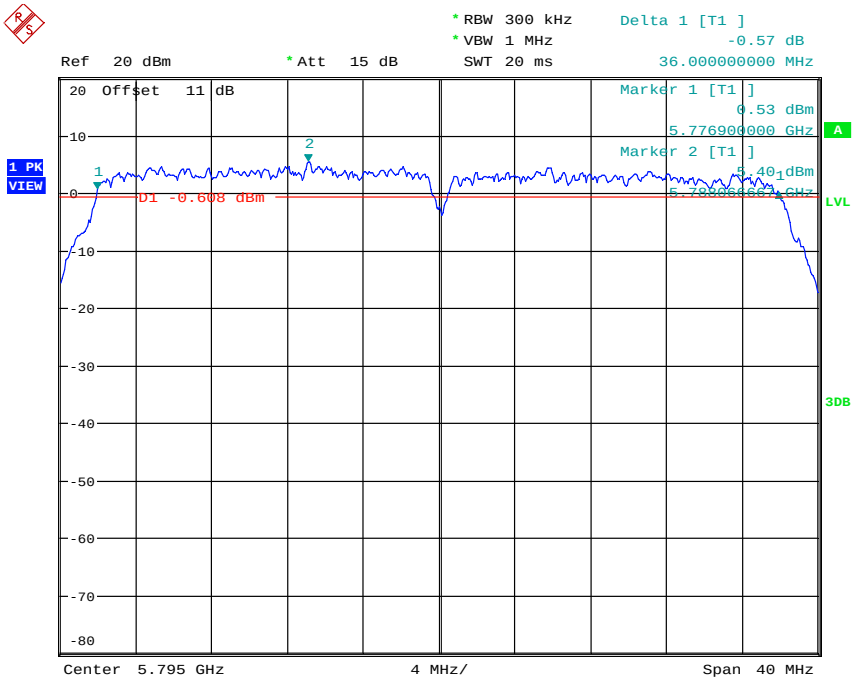
6DB BANDWIDTH 802.11N 20MHZ CH165
Date: 23.NOV.2012 09:06:39

Mode C



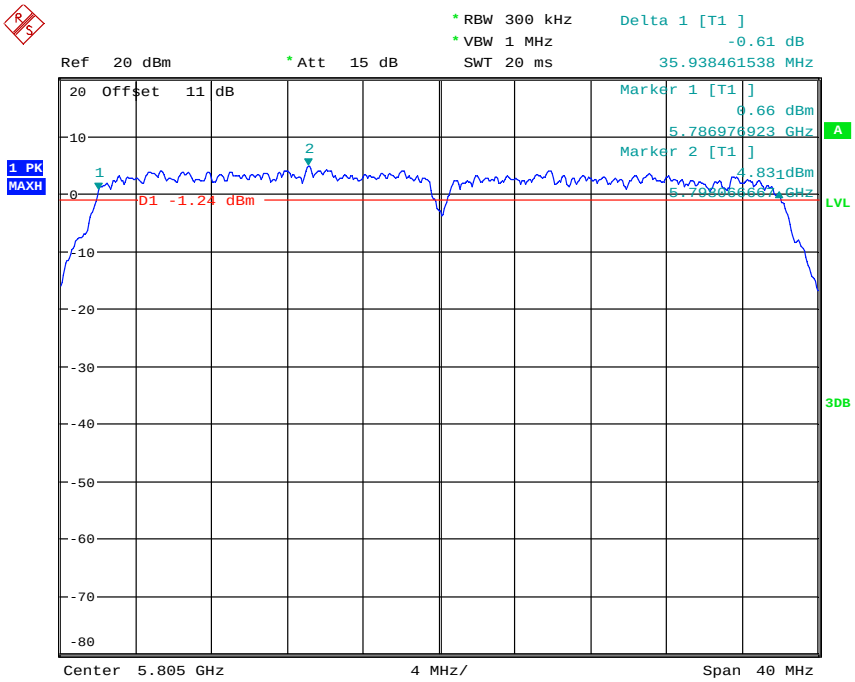
6DB BANDWIDTH 802.11N 40MHZ CH151
Date: 23.NOV.2012 09:18:17

Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N



6DB BANDWIDTH 802.11N 40MHZ CH159

Date: 23.NOV.2012 09:34:53



6DB BANDWIDTH 802.11N 40MHz CH161

Date: 23.NOV.2012 10:01:27

Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N

Limits:

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

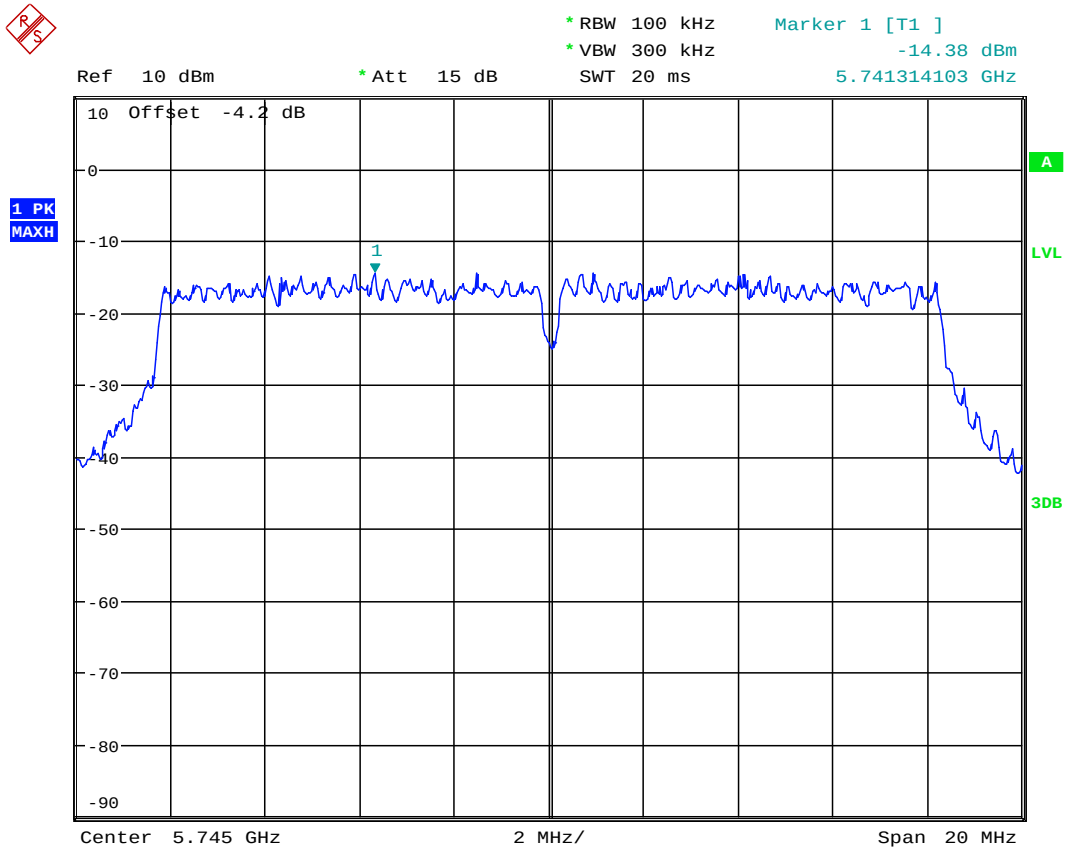
Test equipment used: ETSTW-RE 055

Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N

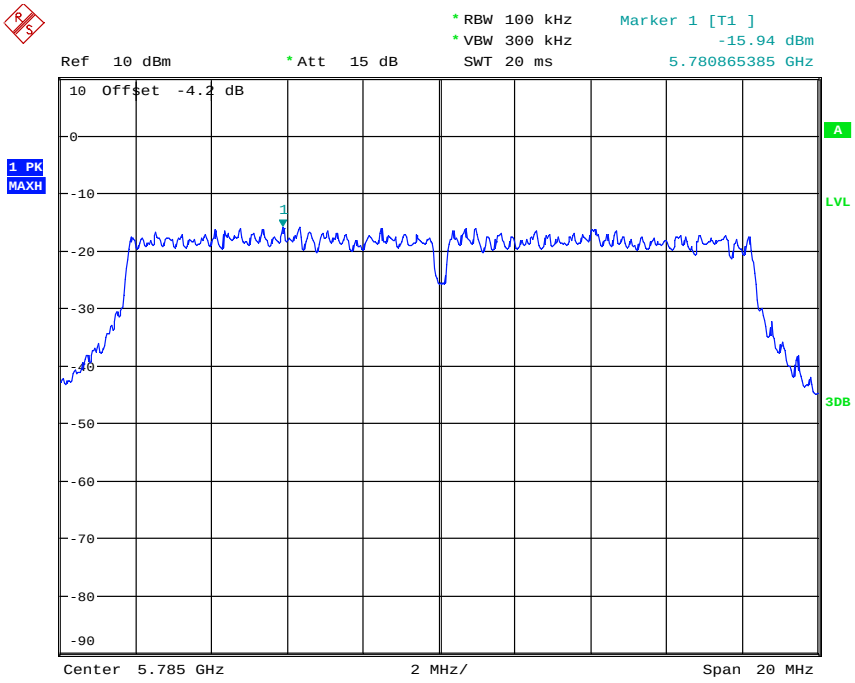
3.8 Peak Power Spectral Density

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

Mode A

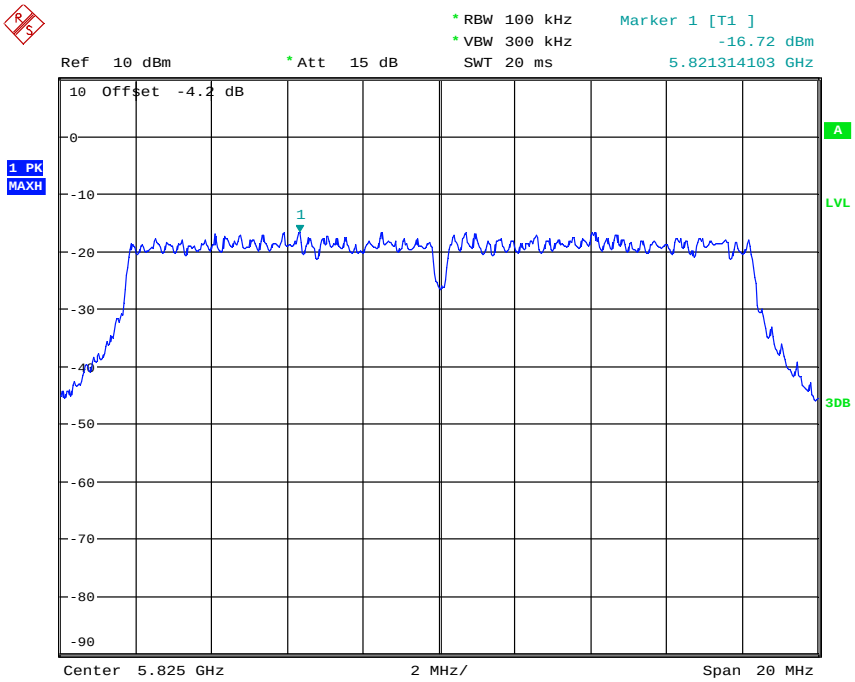


POWER DENSITY 802.11A CH149
Date: 21.DEC.2012 06:10:37



POWER DENSITY 802.11A CH157

Date: 21.DEC.2012 06:13:38

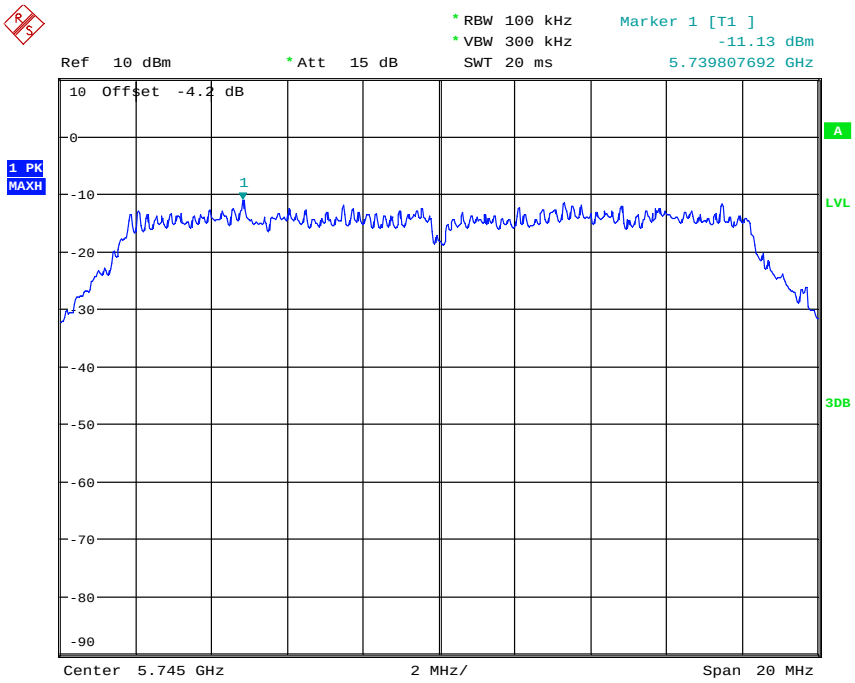


POWER DENSITY 802.11A CH165

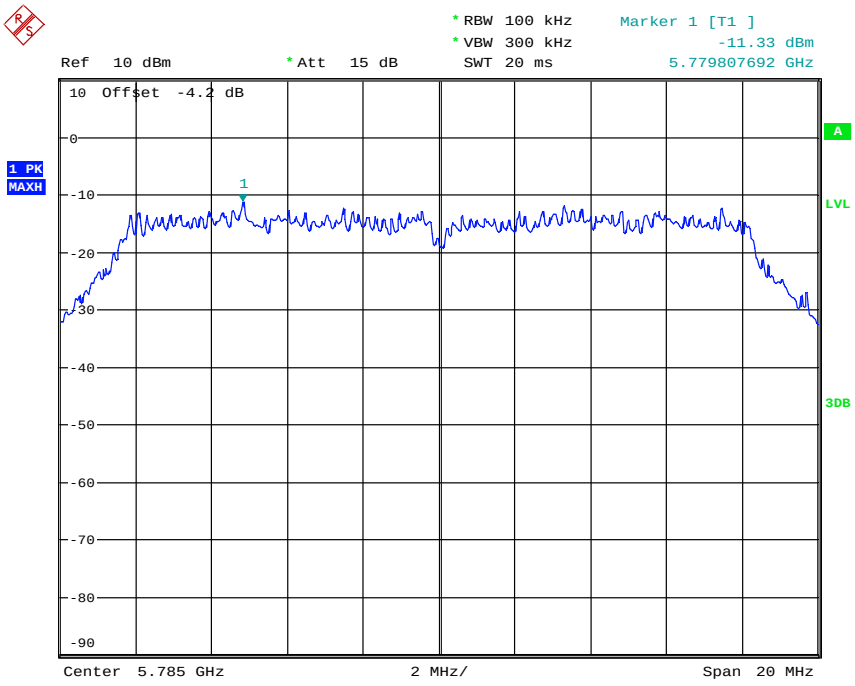
Date: 21.DEC.2012 06:15:55

Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N

Mode B

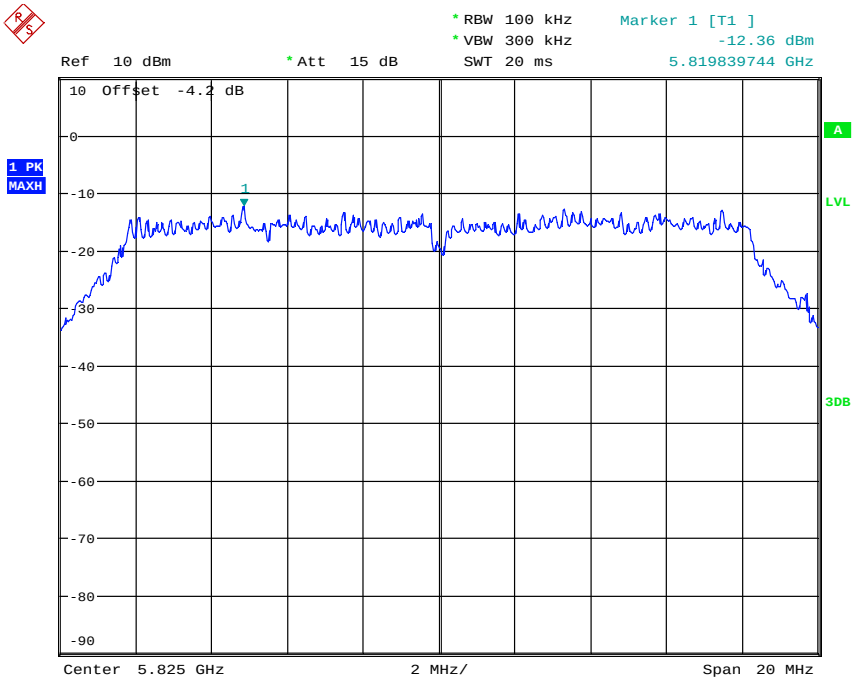


POWER DENSITY 802.11N 20MHZ CH149
Date: 23.NOV.2012 09:04:43



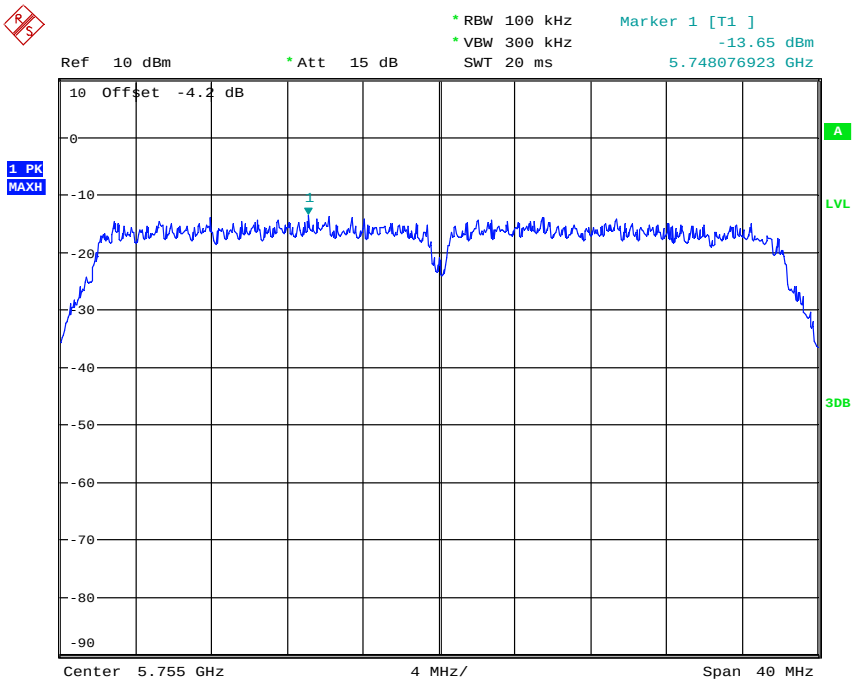
POWER DENSITY 802.11N 20MHZ CH157
Date: 23.NOV.2012 09:05:50

Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N



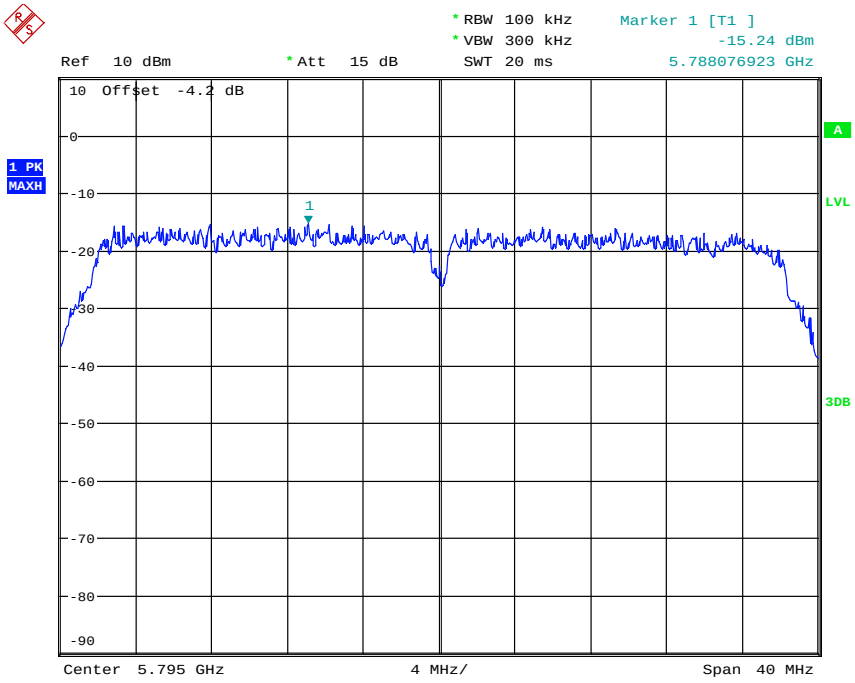
POWER DENSITY 802.11N 20MHZ CH165
Date: 23.NOV.2012 09:06:45

Mode C

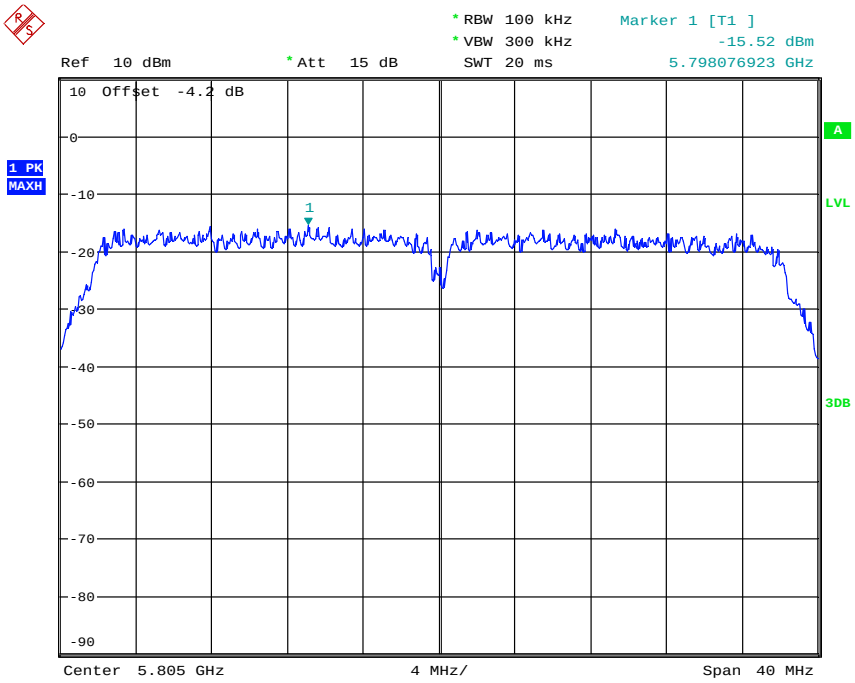


POWER DENSITY 802.11N 40MHZ CH151
Date: 23.NOV.2012 09:18:24

Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N



POWER DENSITY 802.11N 40MHZ CH159
Date: 23.NOV.2012 09:34:59



POWER DENSITY 802.11N 40MHz CH161
Date: 23.NOV.2012 10:02:57

Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N

Limits:

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

Test equipment used: ETSTW-RE 055

Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N

3.9 Radiated Emission from Digital Part

FCC Rule: 15.109

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

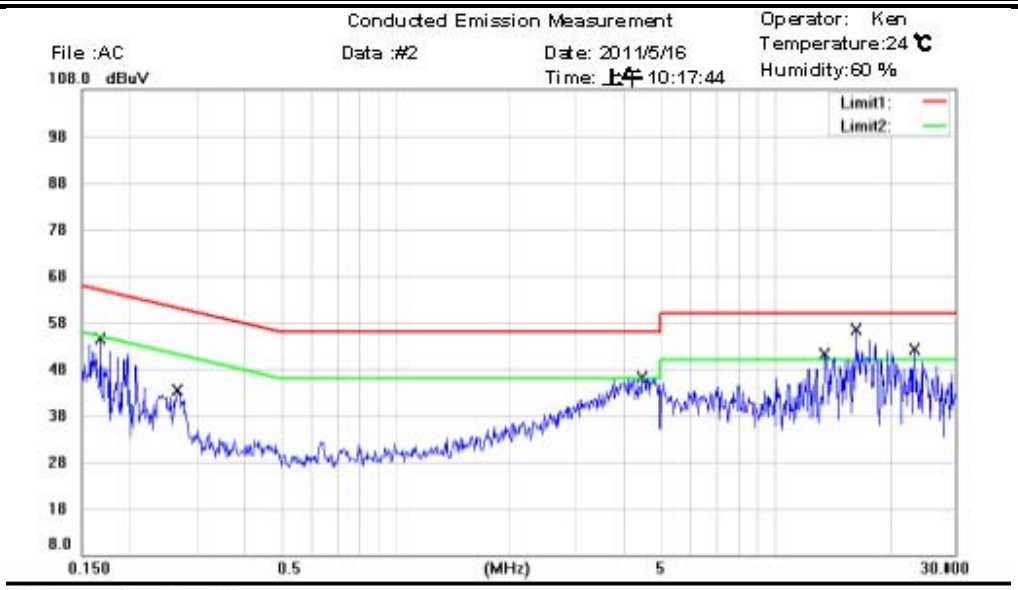
Test equipment used: ETSTW-RE 003, ETSTW-RE 004, ETSTW-RE 018, ETSTW-RE 019
ETSTW-RE 030, ETSTW-RE 044, ETSTW-RE 111

Explanation: The test results of digital part are listed in test report no.: W6D21210-12823-P-15B.

3.10 Power Line Conducted Emission

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the table bellows with this provision shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminals.
This measurement was transact first with instrumentation using an average and peak detector and a 10 kHz bandwidth. If the peak detector achieves a calculated level, the measurement is repeated by an instrumentation using a quasi-peak detector.

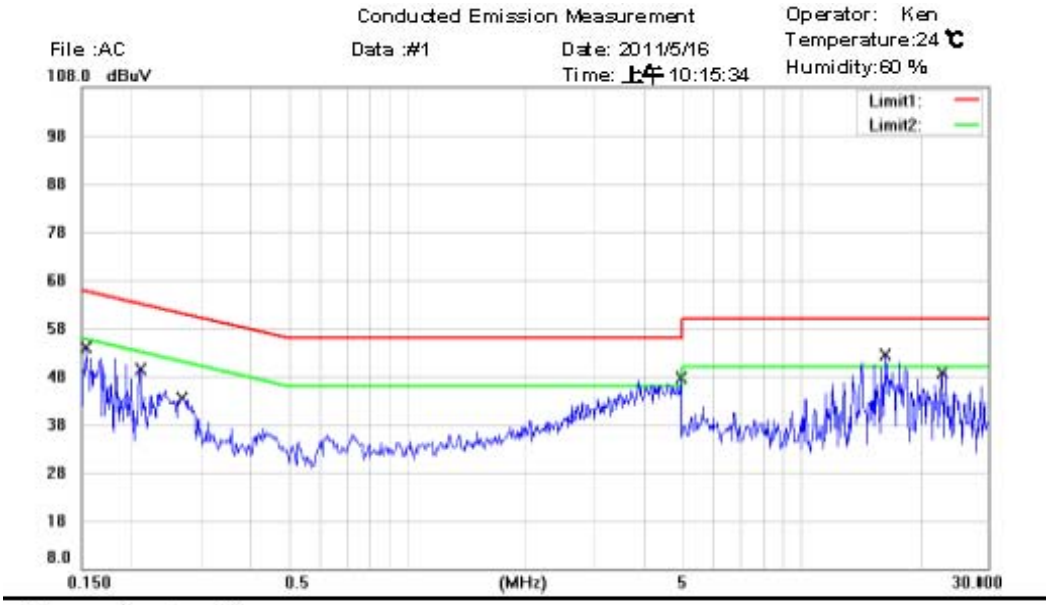
Frequency	Level (dBμV)	
	quasi-peak	average
150 kHz	lower limit line	Lower limit line



Site : Chamber_03
Condition : FCC Part 15 Class B Conduction (QP)
Phase: N
EUT : W6D21210-12823
Power : 110V AC
M/N: AirMax5N
Test Mode :
Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1672	31.55	QP	9.92	41.47	65.10	-23.63	
	0.1672	17.65	AVG	9.92	27.57	55.10	-27.53	
	0.2670	29.43	QP	9.91	39.34	61.21	-21.87	
	0.2670	17.47	AVG	9.91	27.38	51.21	-23.83	
	4.4690	27.10	QP	10.13	37.23	56.00	-18.77	
	4.4690	16.09	AVG	10.13	26.22	46.00	-19.78	
	13.4250	27.20	QP	10.70	37.90	60.00	-22.10	
	13.4250	17.19	AVG	10.70	27.89	50.00	-22.11	
	16.2250	41.62	QP	10.85	52.47	60.00	-7.53	
*	16.2250	33.40	AVG	10.85	44.25	50.00	-5.75	
	23.1375	14.77	QP	11.14	25.91	60.00	-34.09	
	23.1375	5.02	AVG	11.14	16.16	50.00	-33.84	

Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N



Site : Chamber_03
Condition : FCC Part 15 Class B Conduction (QP)
Phase: L1
EUT : W6D21210-12823
Power : 110V AC
M/N: AirMax5N
Test Mode :
Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1533	33.66	QP	10.00	43.66	65.82	-22.16	
	0.1533	18.72	AVG	10.00	28.72	55.82	-27.10	
	0.2095	21.40	QP	9.94	31.34	63.23	-31.89	
	0.2095	14.54	AVG	9.94	24.48	53.23	-28.75	
	0.2686	29.90	QP	9.97	39.87	61.16	-21.29	
	0.2686	26.74	AVG	9.97	36.71	51.16	-14.45	
	4.9370	28.32	QP	10.26	38.58	56.00	-17.42	
	4.9370	17.58	AVG	10.26	27.84	46.00	-18.16	
	16.2375	21.09	QP	11.06	32.15	60.00	-27.85	
	16.2375	10.99	AVG	11.06	22.05	50.00	-27.95	
	22.5750	32.37	QP	11.39	43.76	60.00	-16.24	
*	22.5750	25.38	AVG	11.39	36.77	50.00	-13.23	

Note: 1. The formula of measured value as: Test Result = Reading + Correction Factor
2. The Correction Factor = Cable Loss + LISN Insertion Loss + Pulse Limit Loss
3. Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average
4. All not in the table noted test results are more than 20 dB below the relevant limits.
5. Up Line: QP Limit Line, Down Line: Ave Limit Line.

Limits:

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

Test equipment used: ETSTW-CE 001, ETSTW-CE 004, ETSTW-CE 006

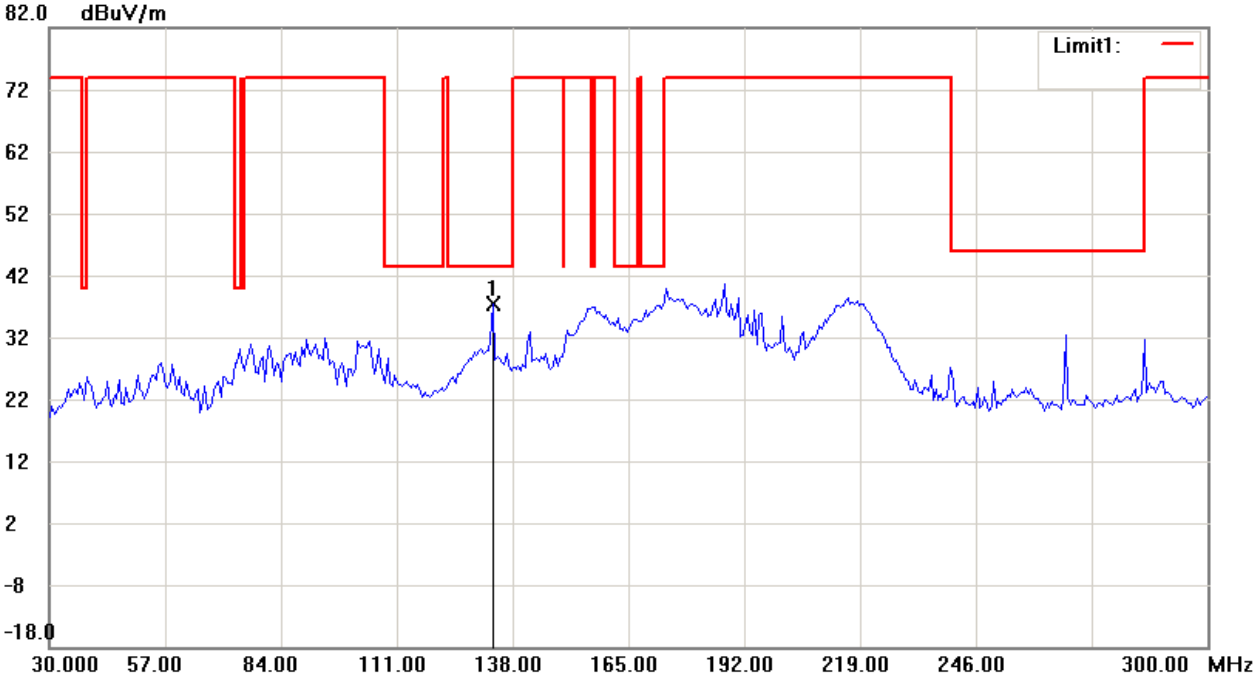
Appendix

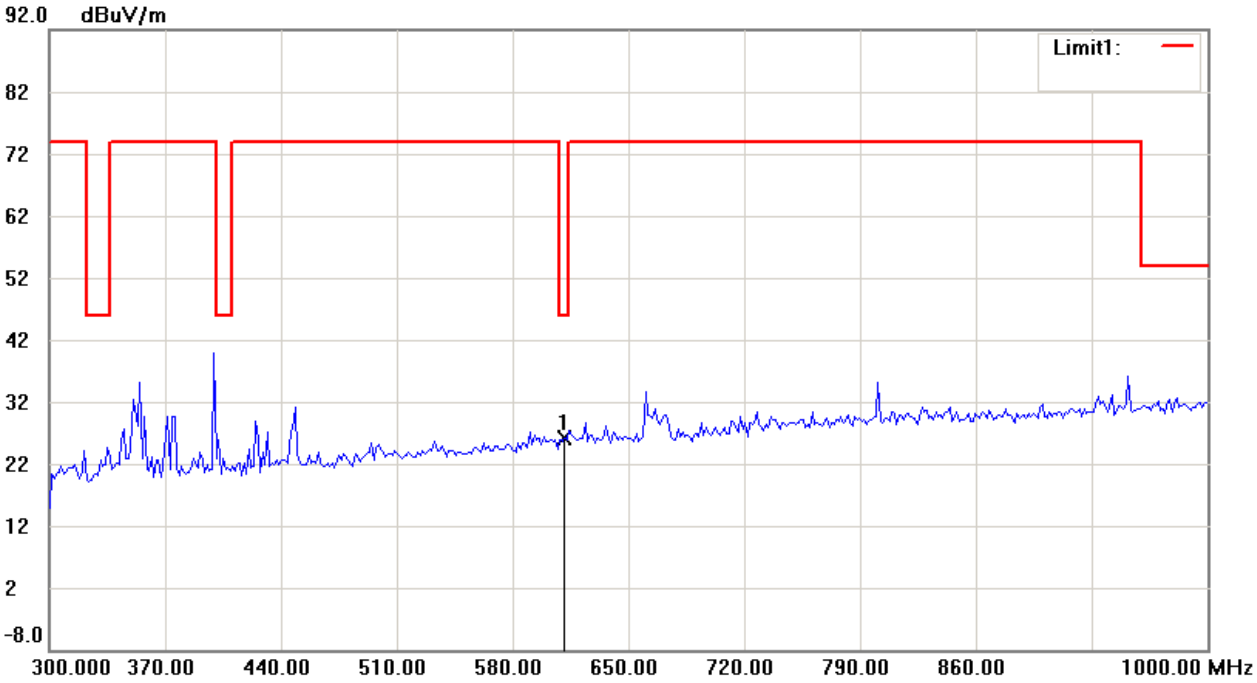
Measurement diagrams

Spurious Emissions radiated

Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N

Spurious Emissions _ Transmitter-Patch antenna
802.11a_CH149
Antenna Polarization H

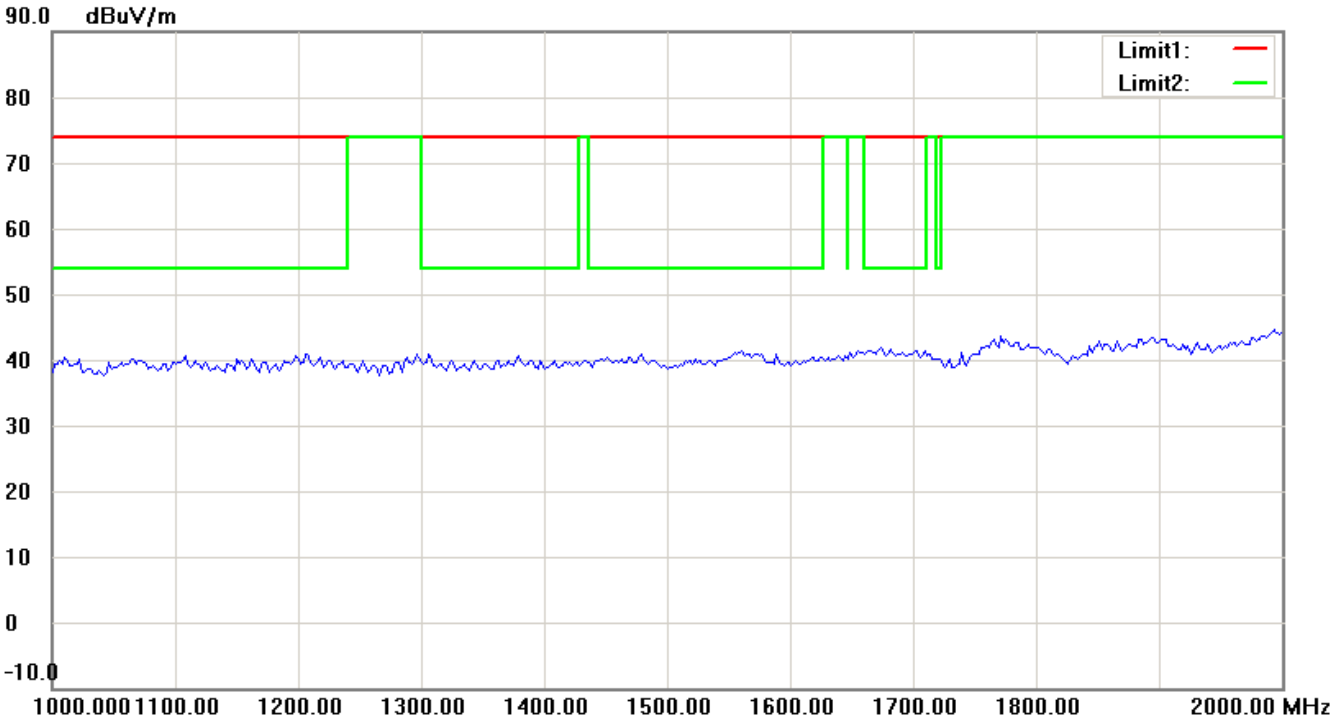


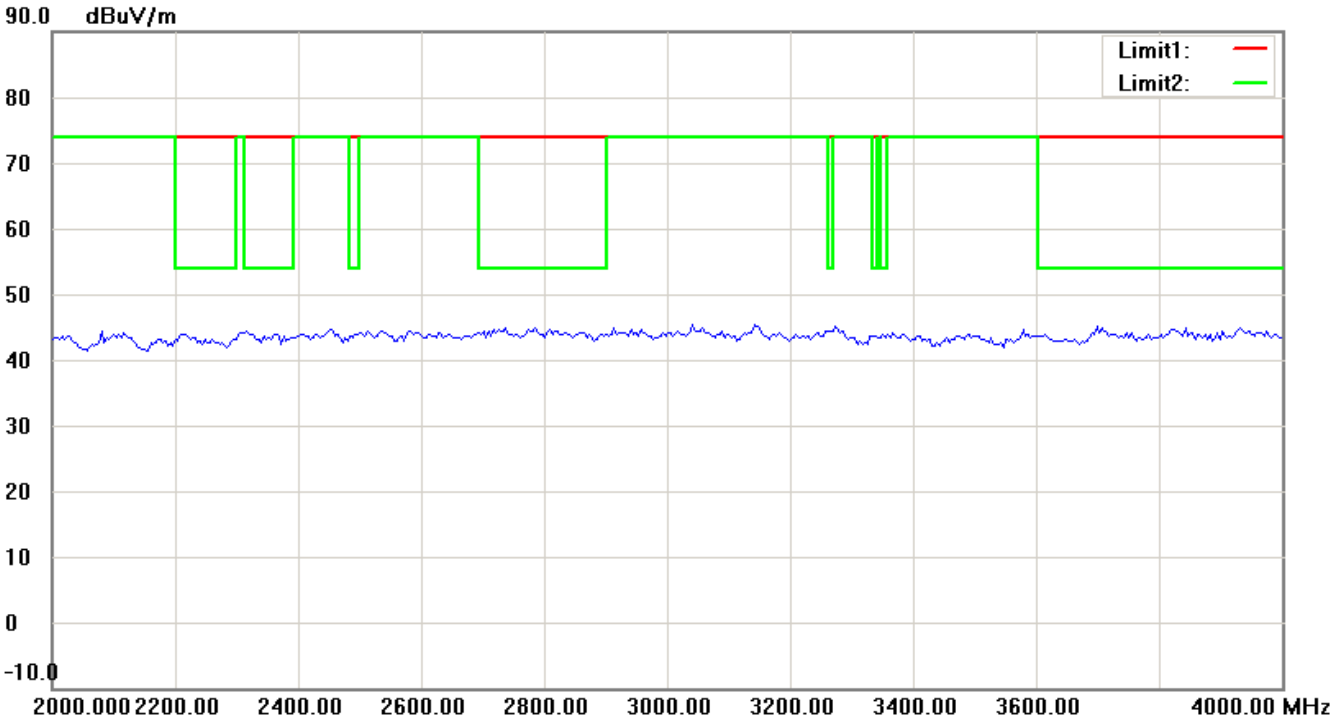


Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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: W6D21210-12823-C-1
FCC ID: ODMAM5N





Up Line: Peak Limit Line Down Line: Ave Limit Line
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1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
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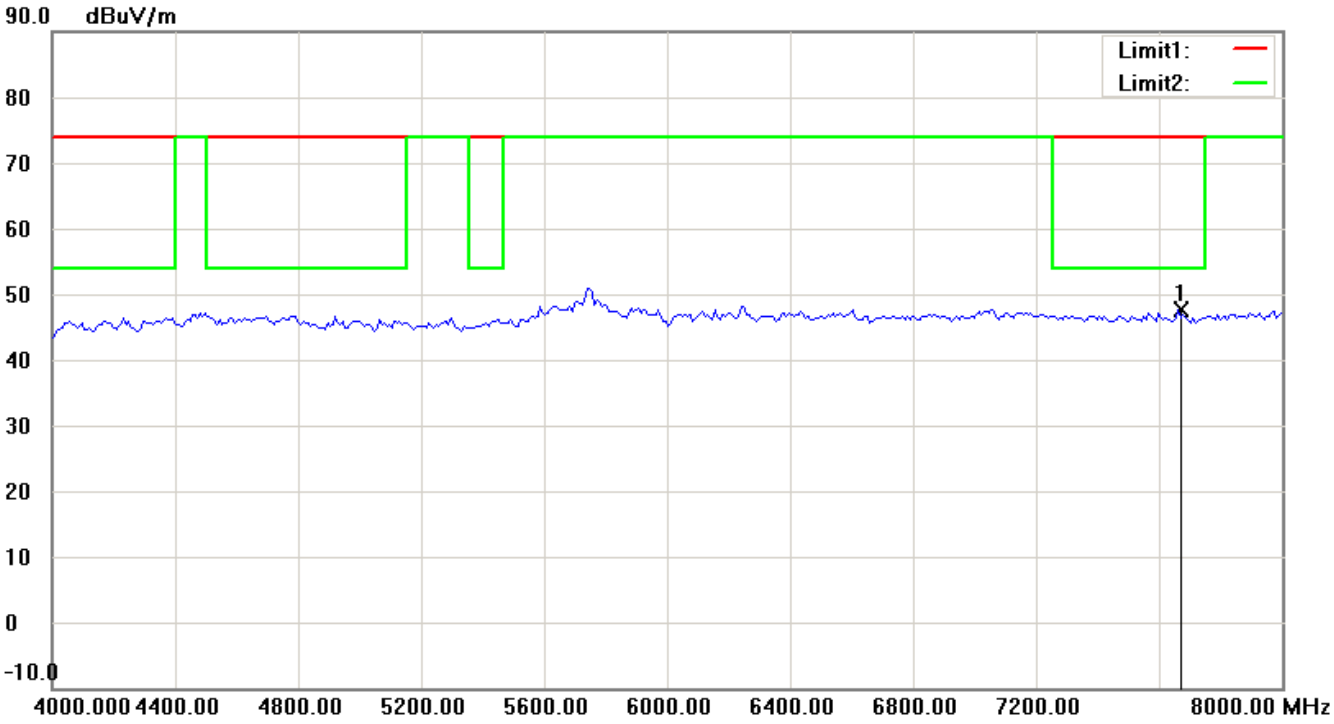
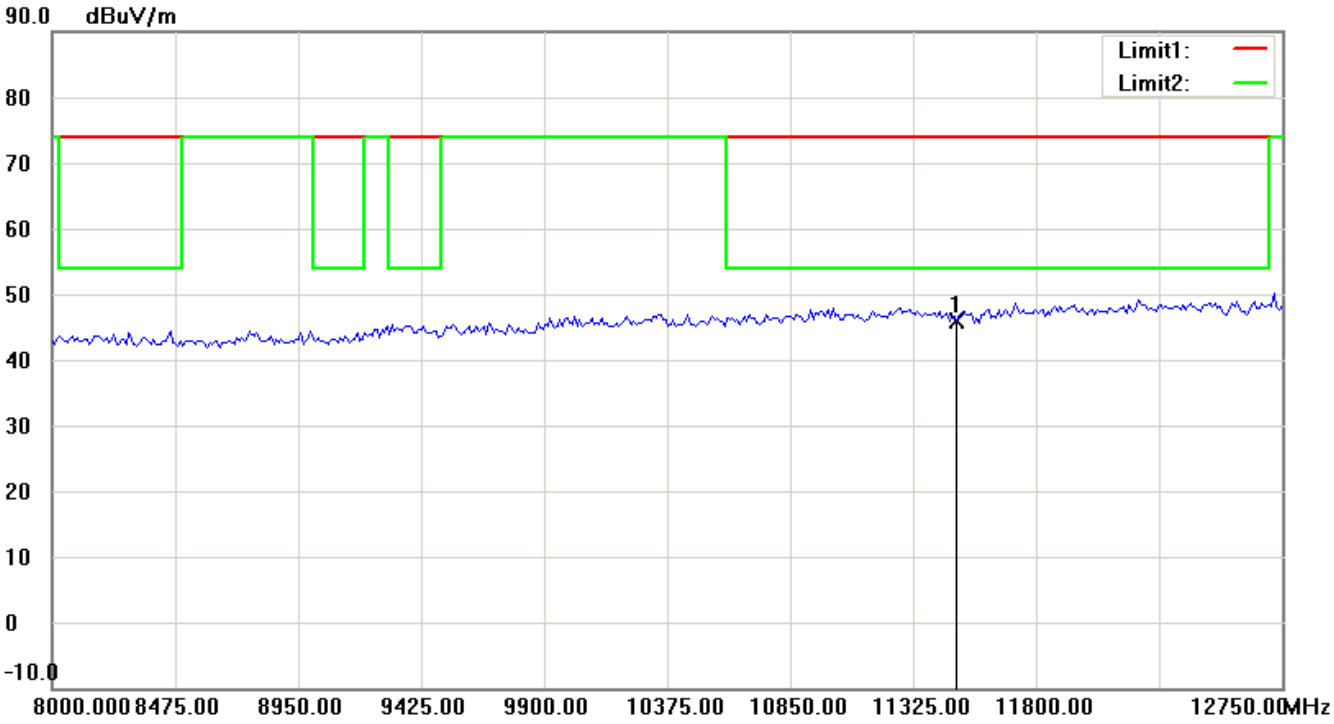
FCC ID: ODMAM5N





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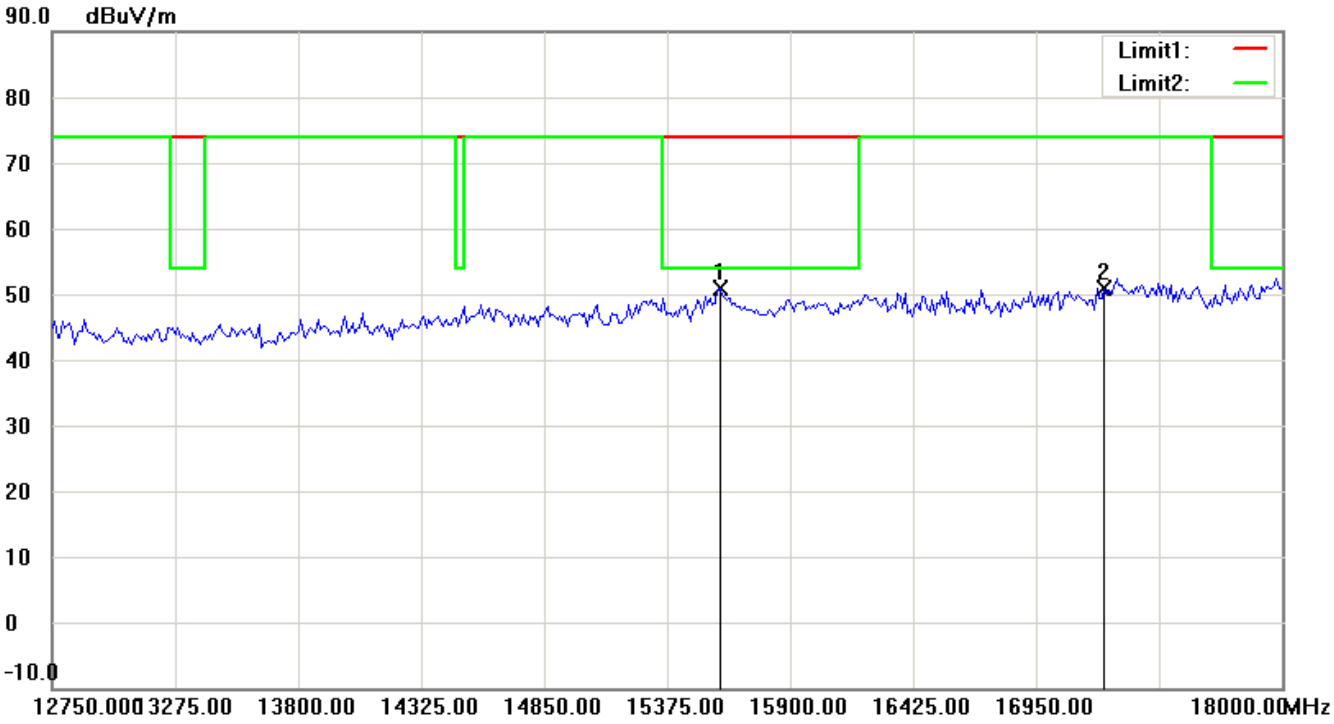

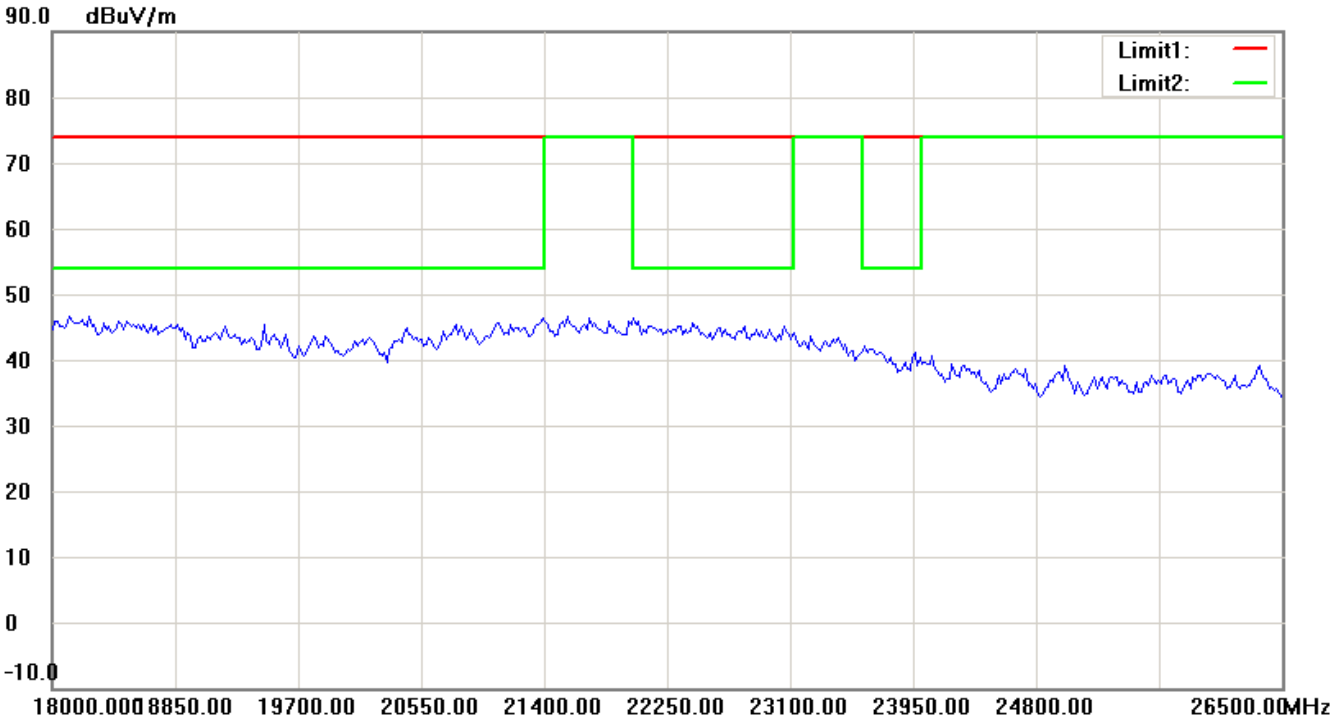

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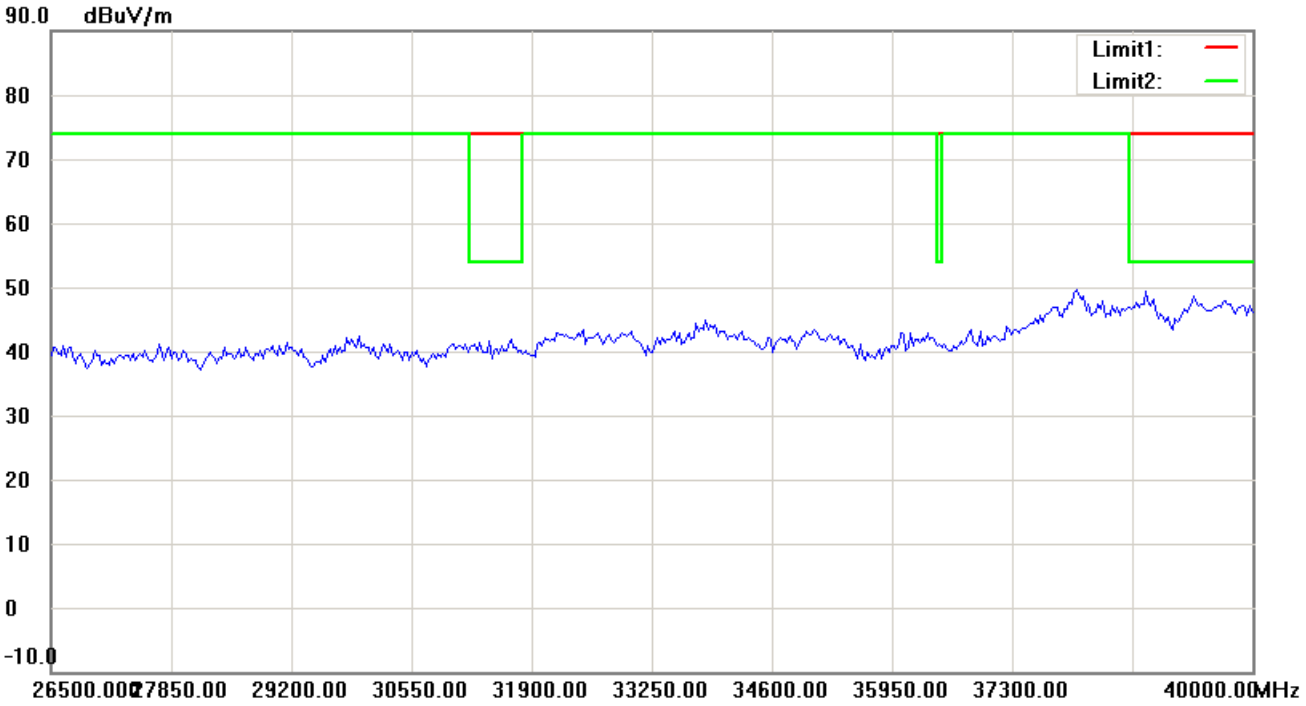
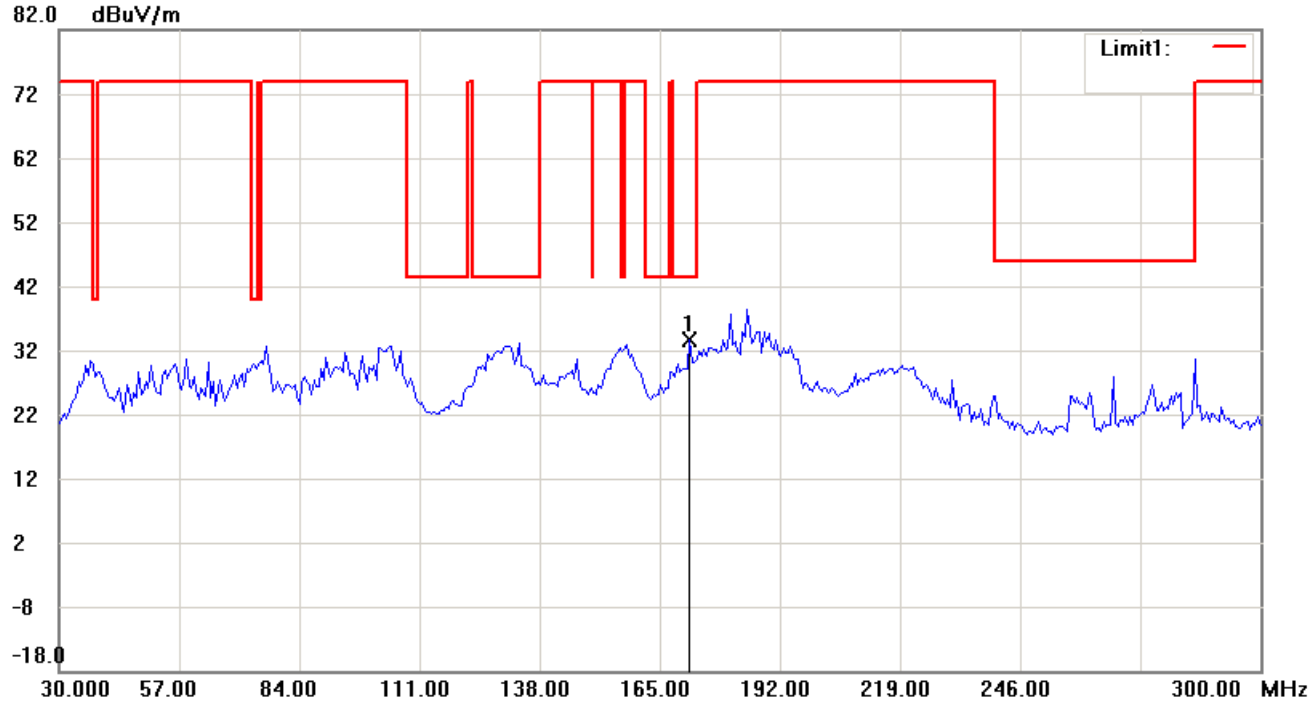


Antenna Polarization V



Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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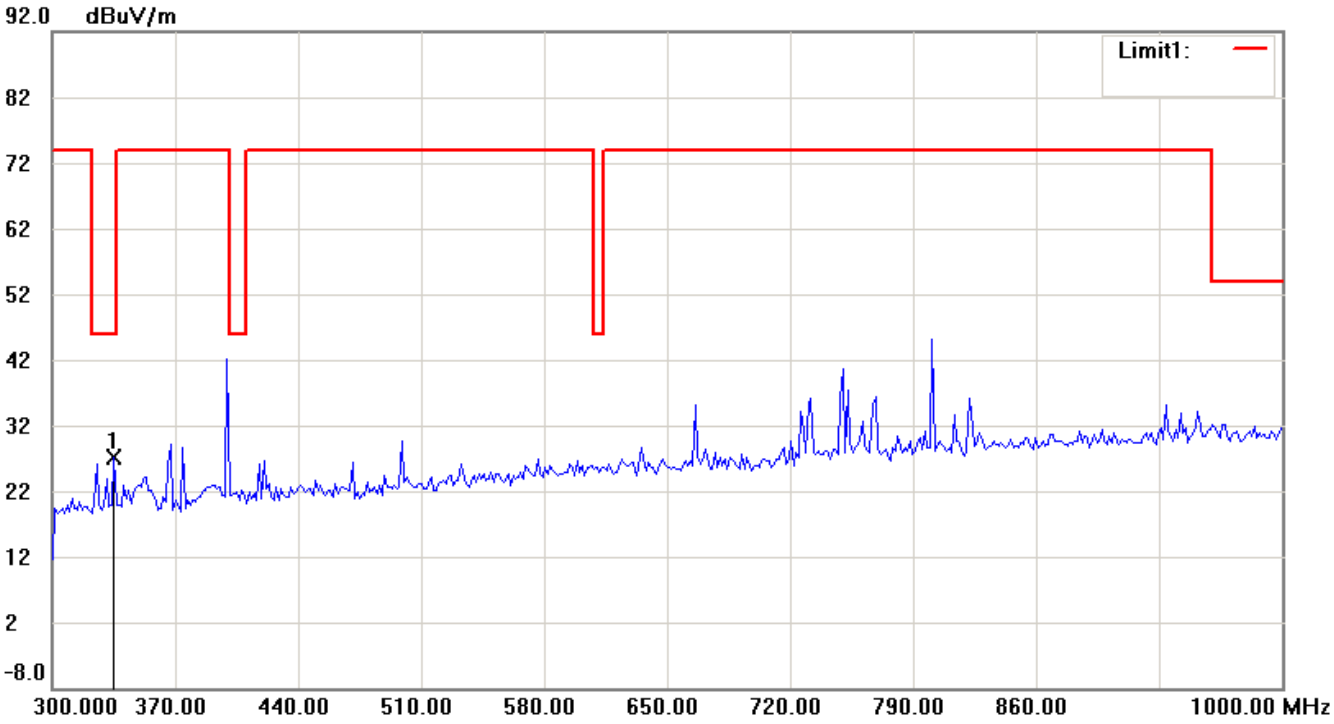

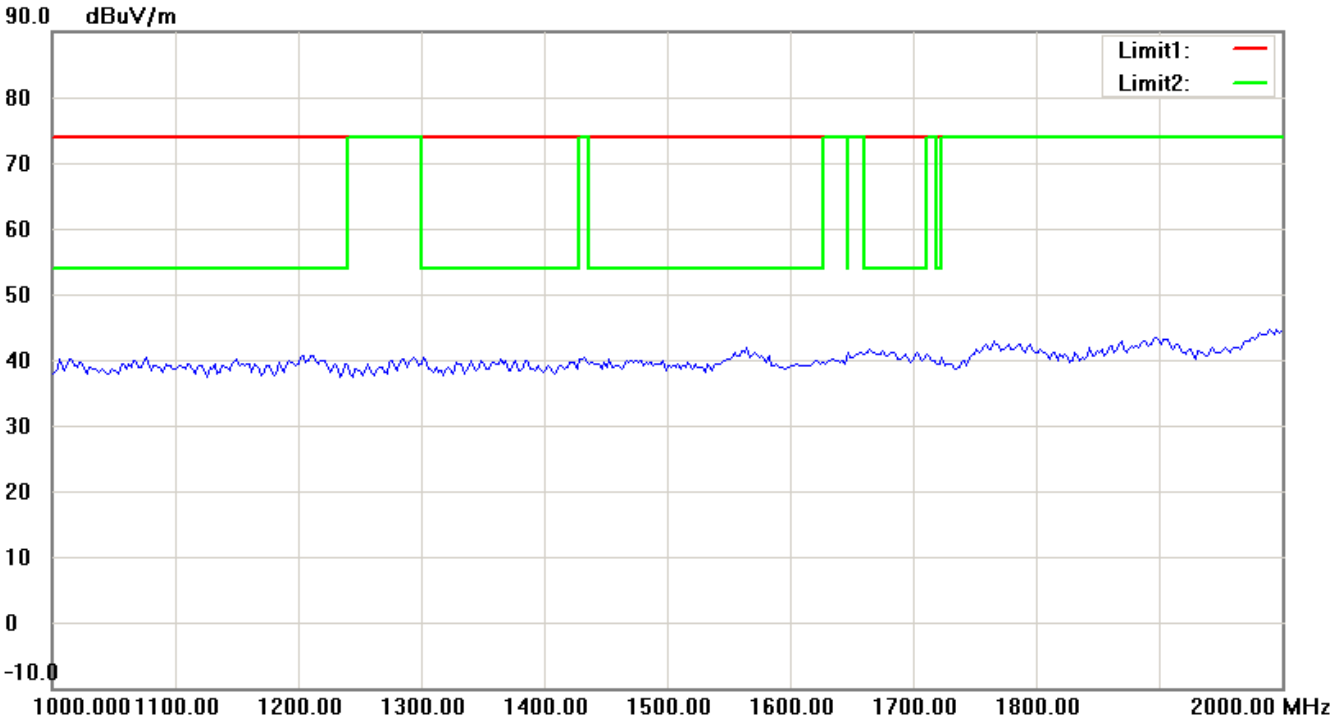

Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
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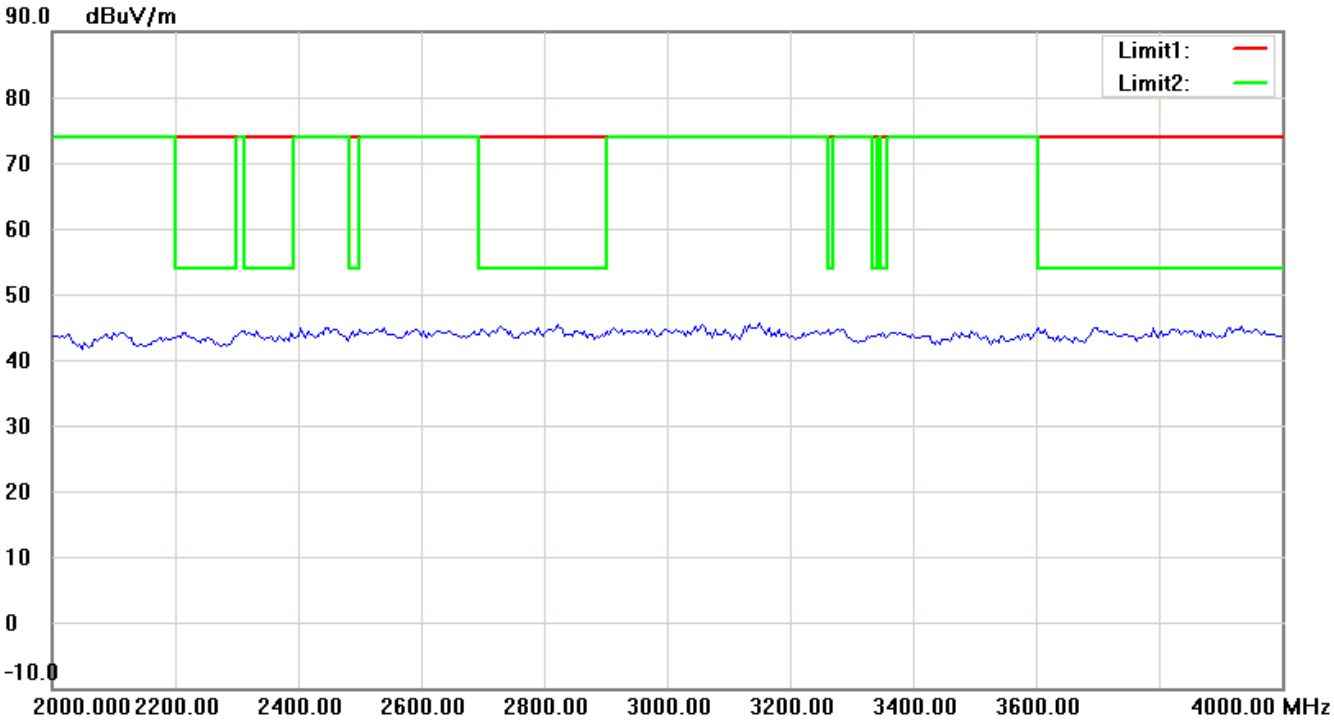
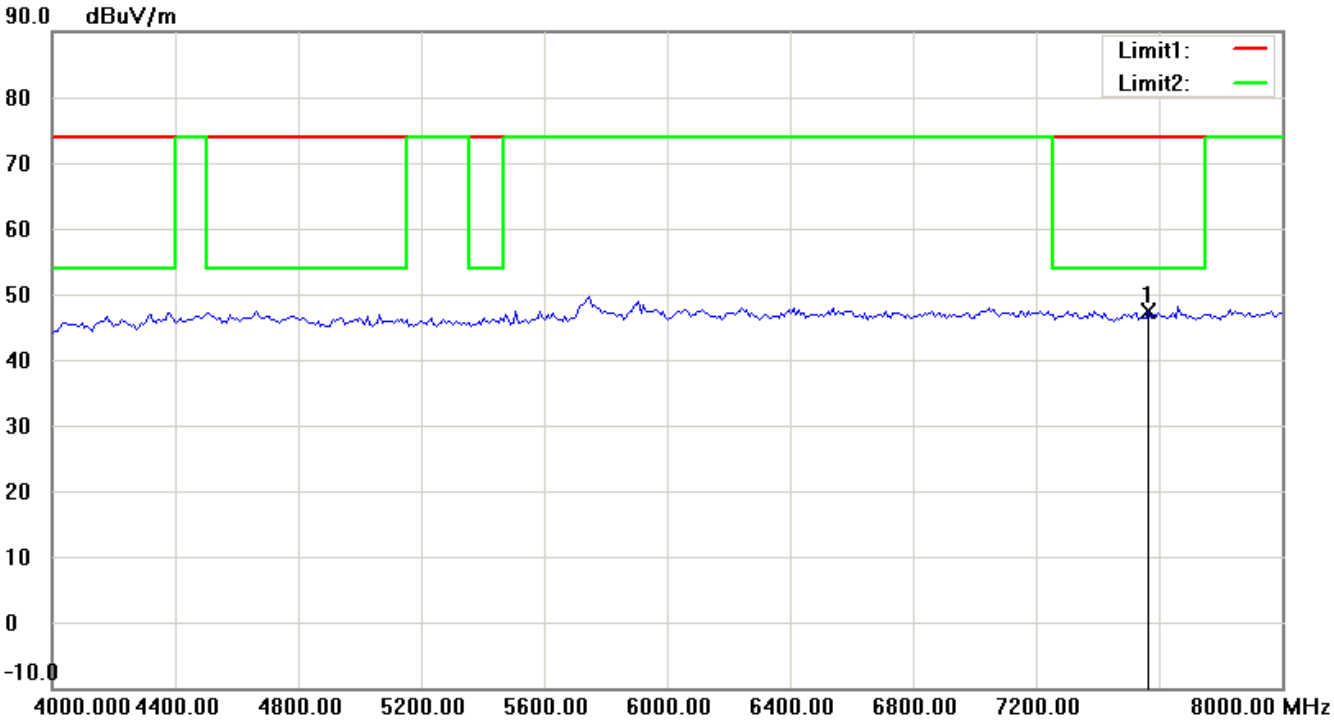
Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N





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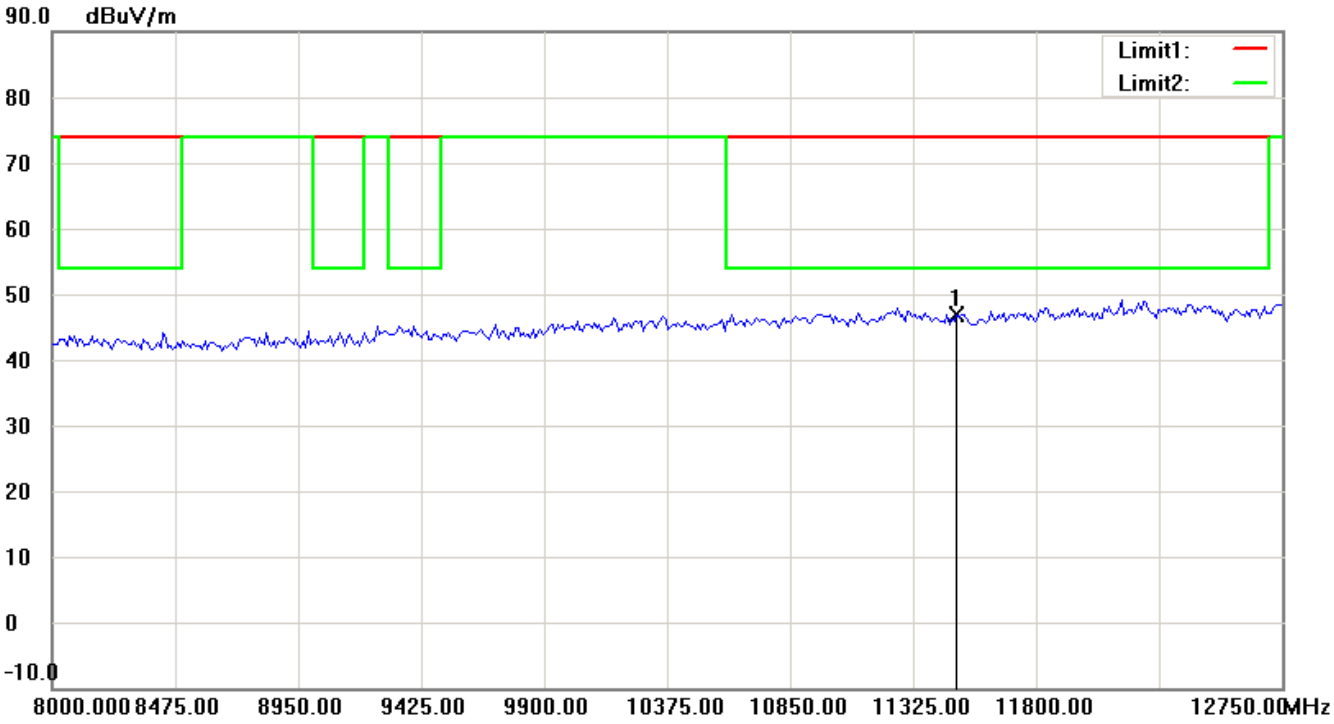

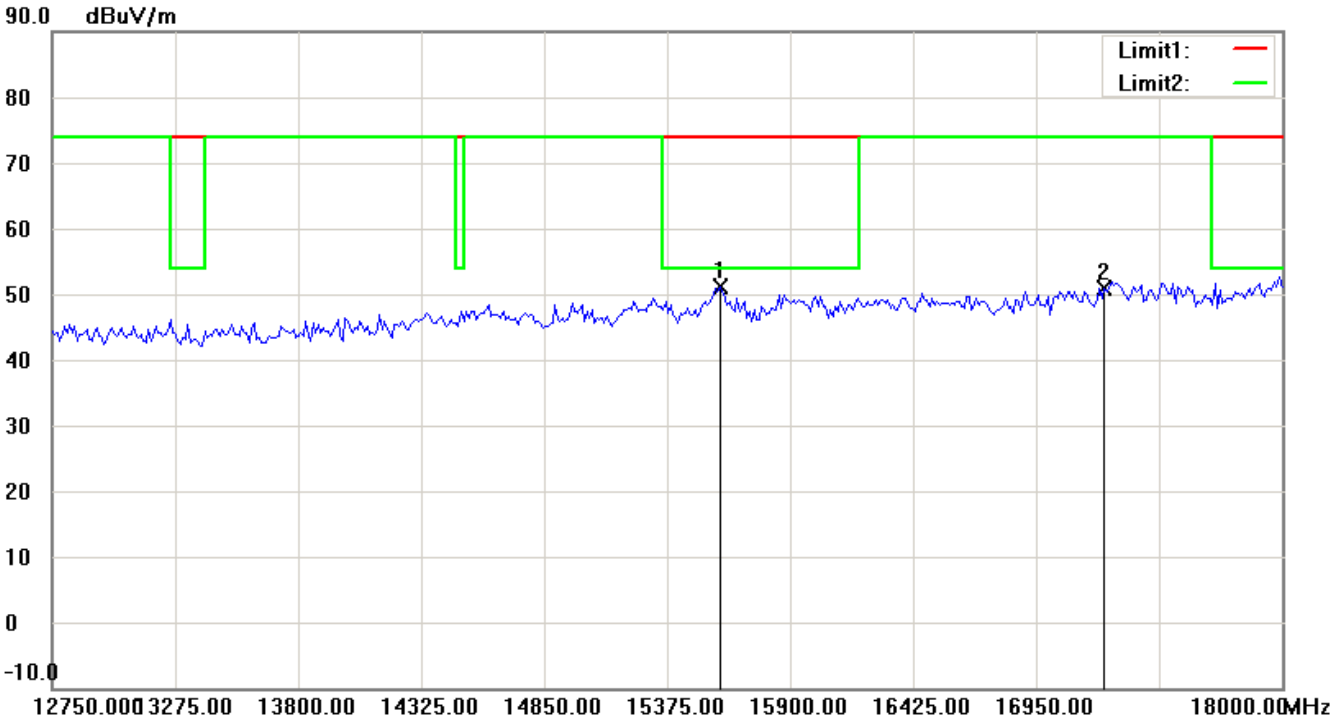

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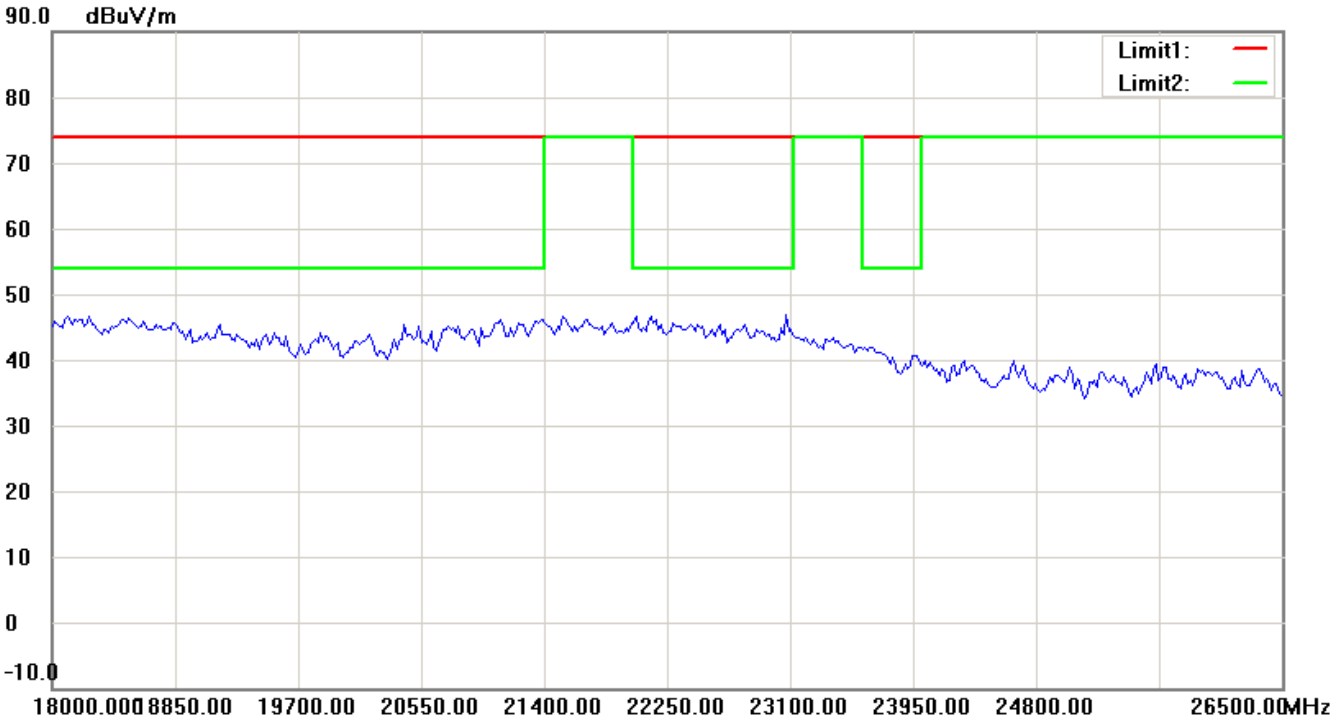

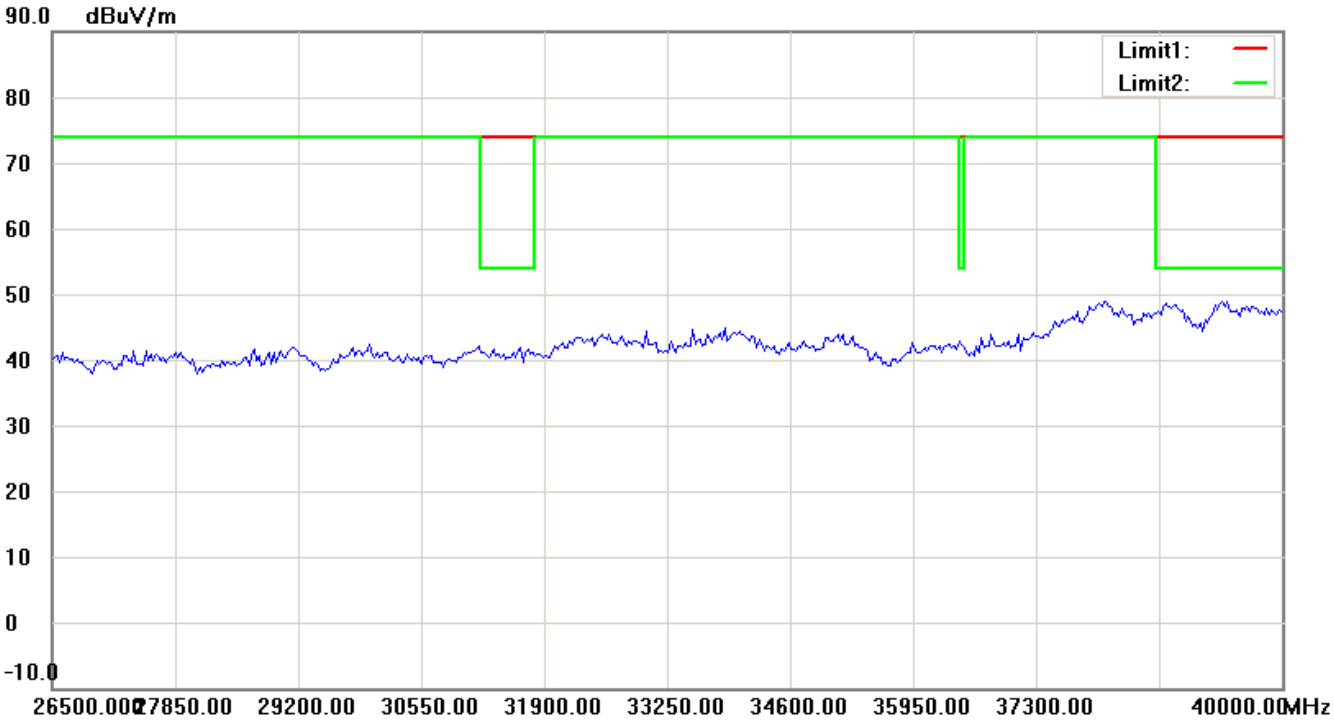

Up Line: Peak Limit Line Down Line: Ave Limit Line
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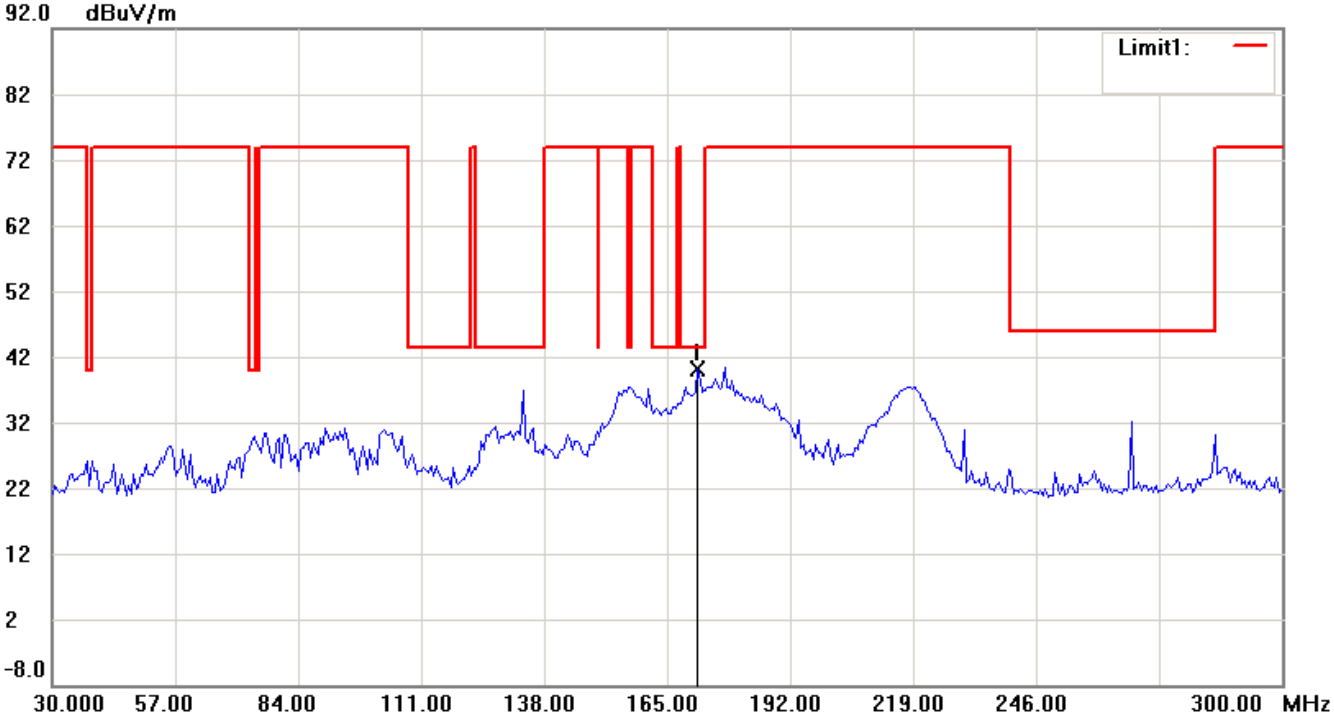
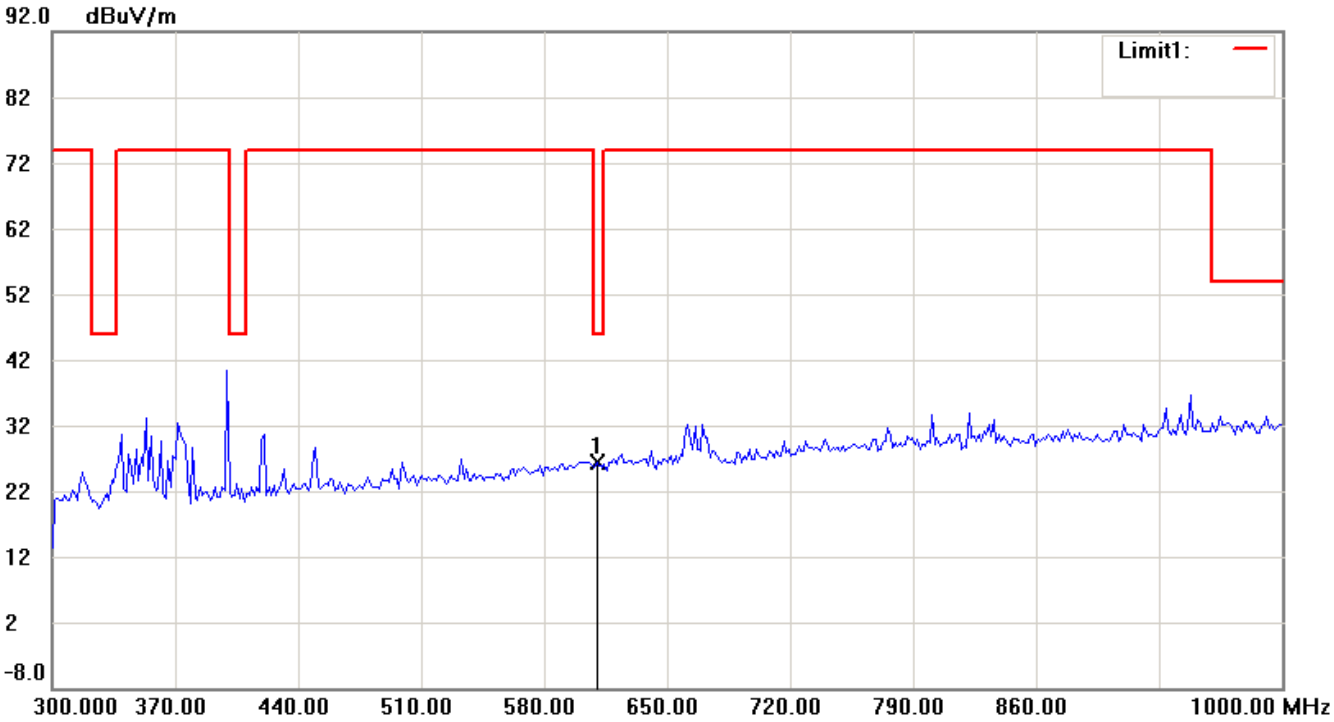
Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N

802.11a_CH157
Antenna Polarization H





Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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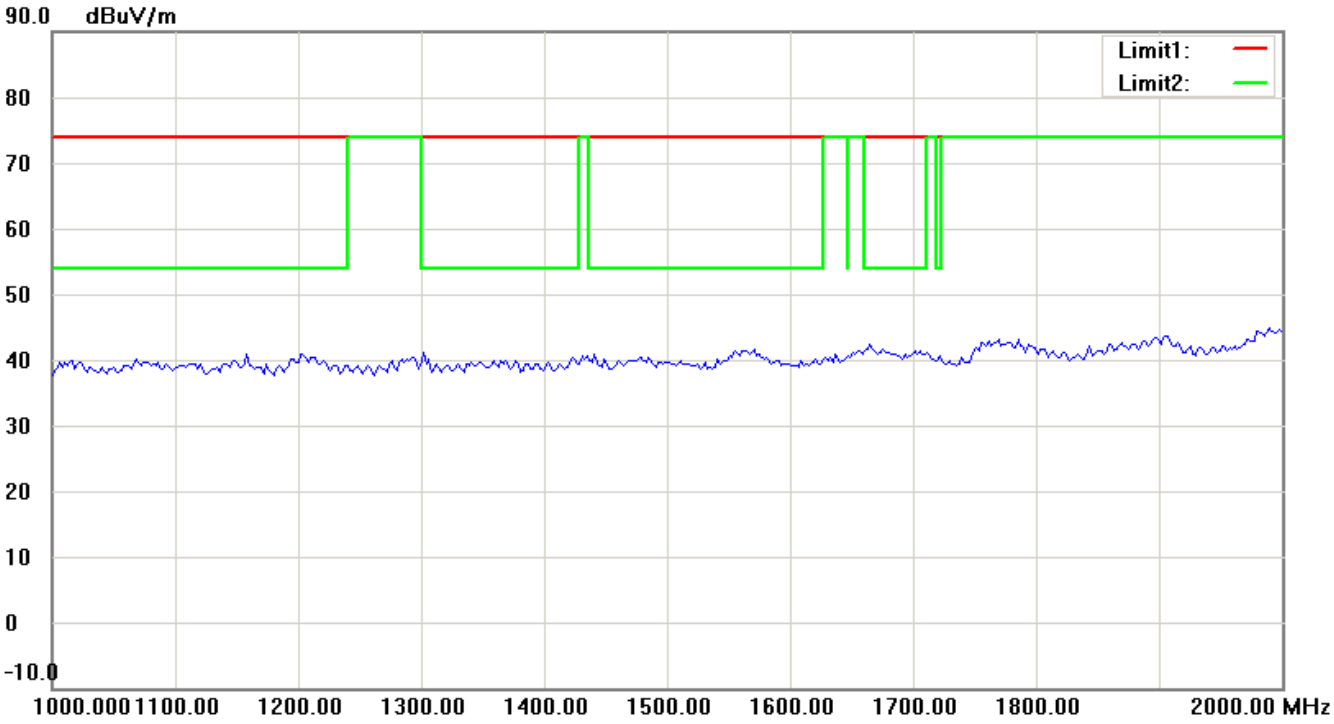

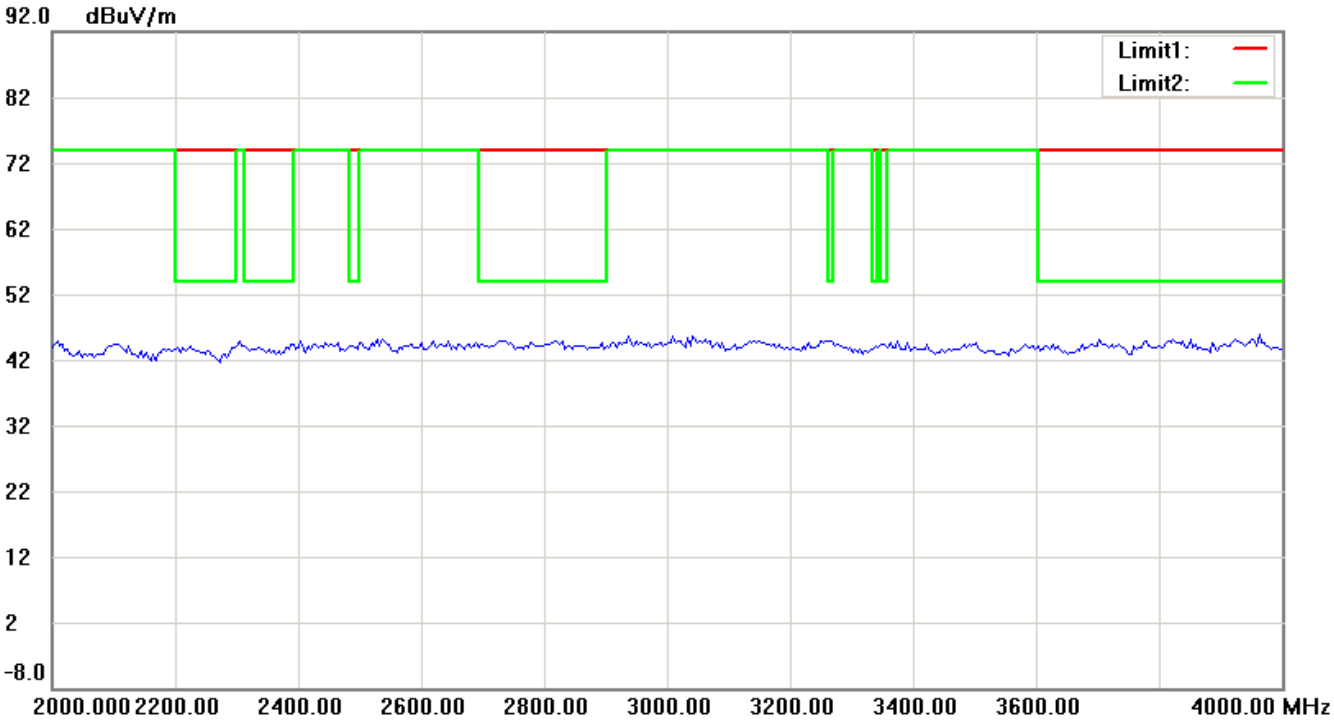

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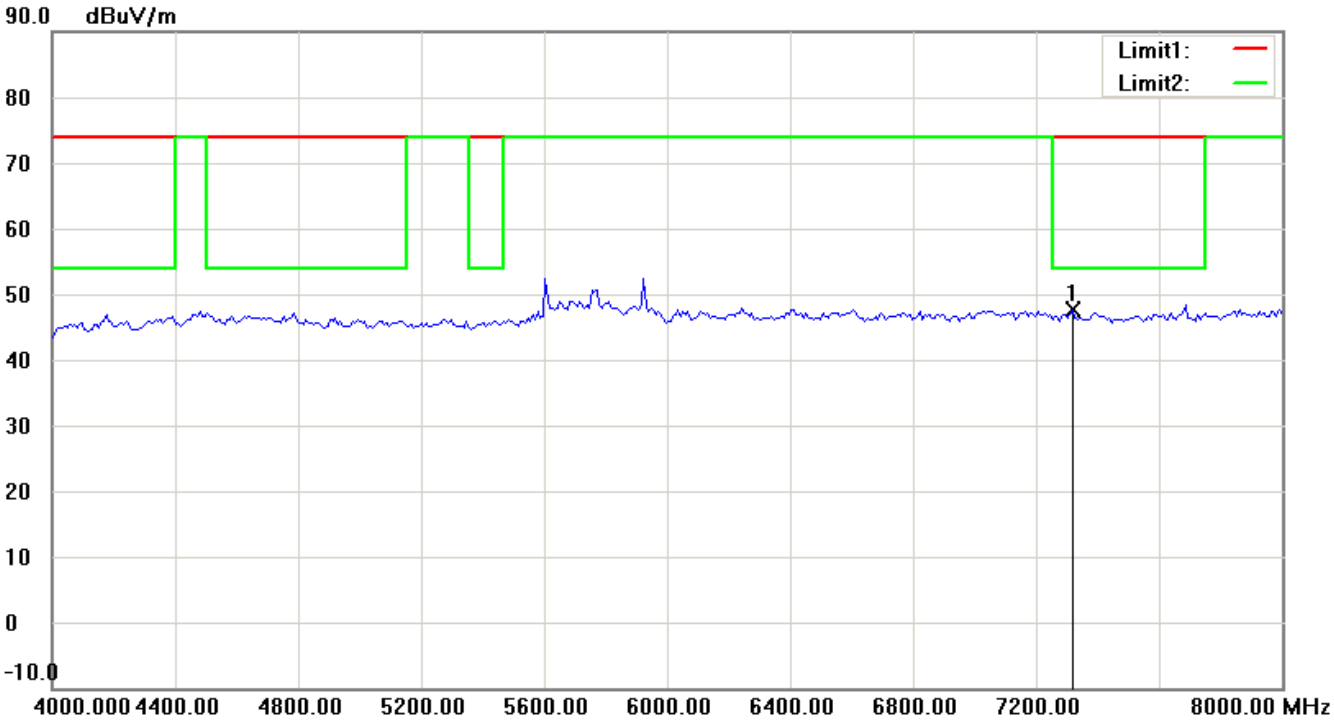

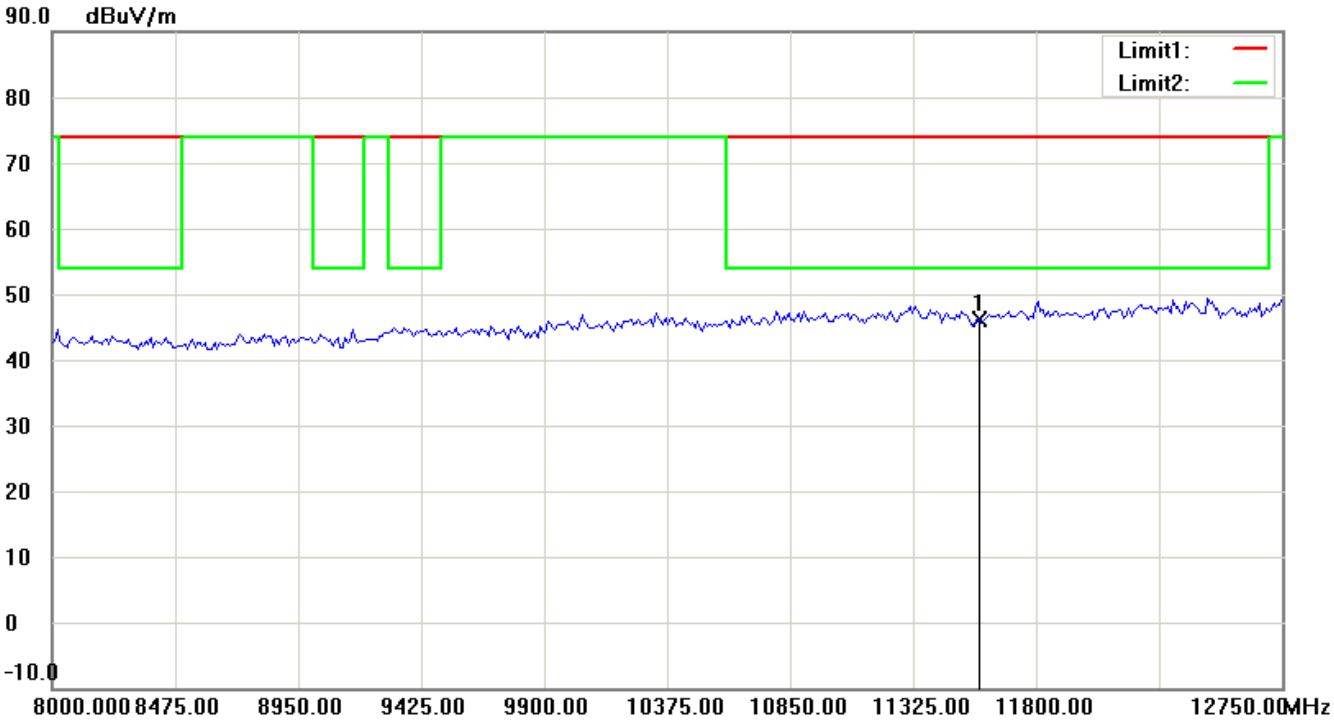

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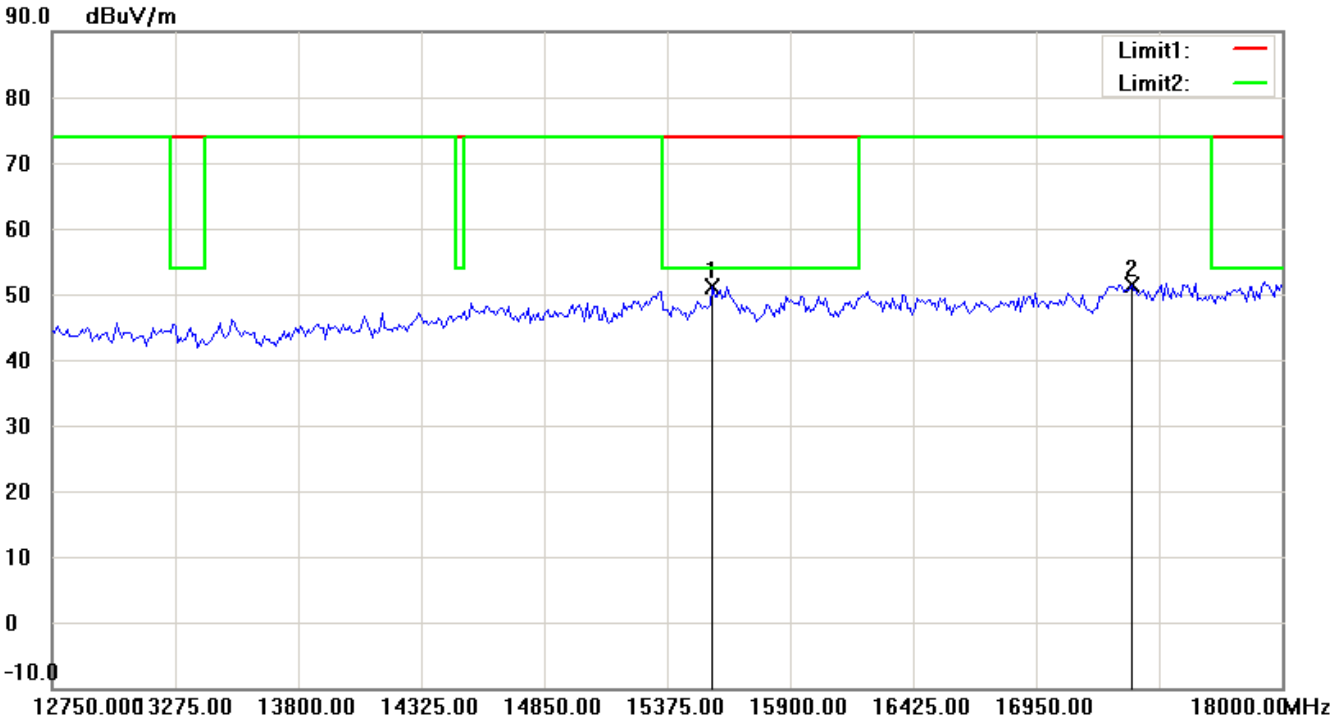

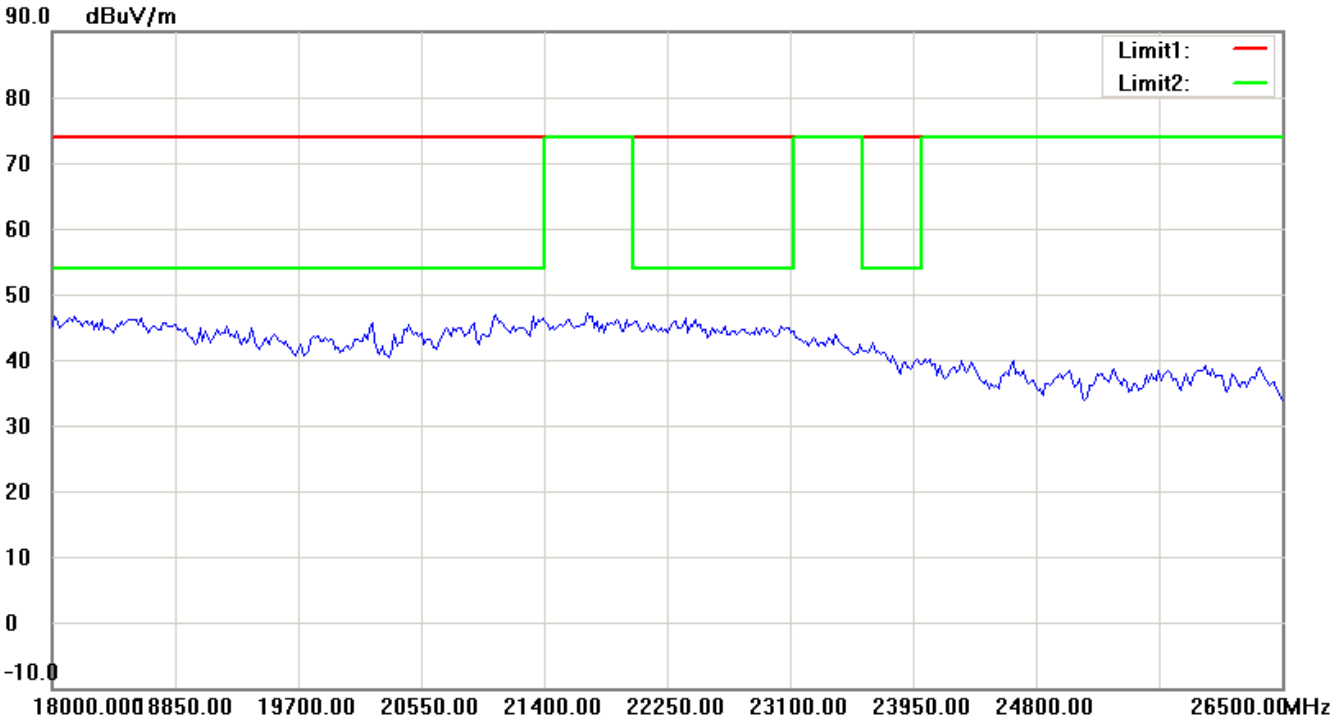

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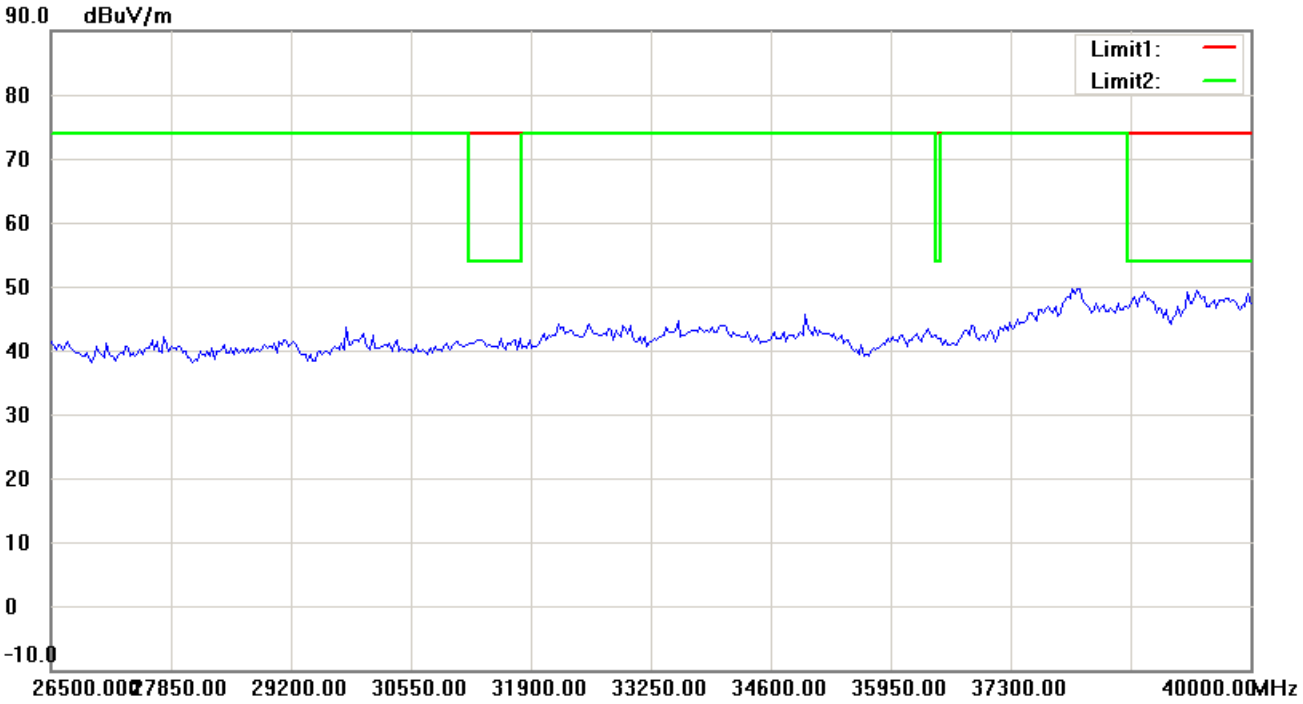
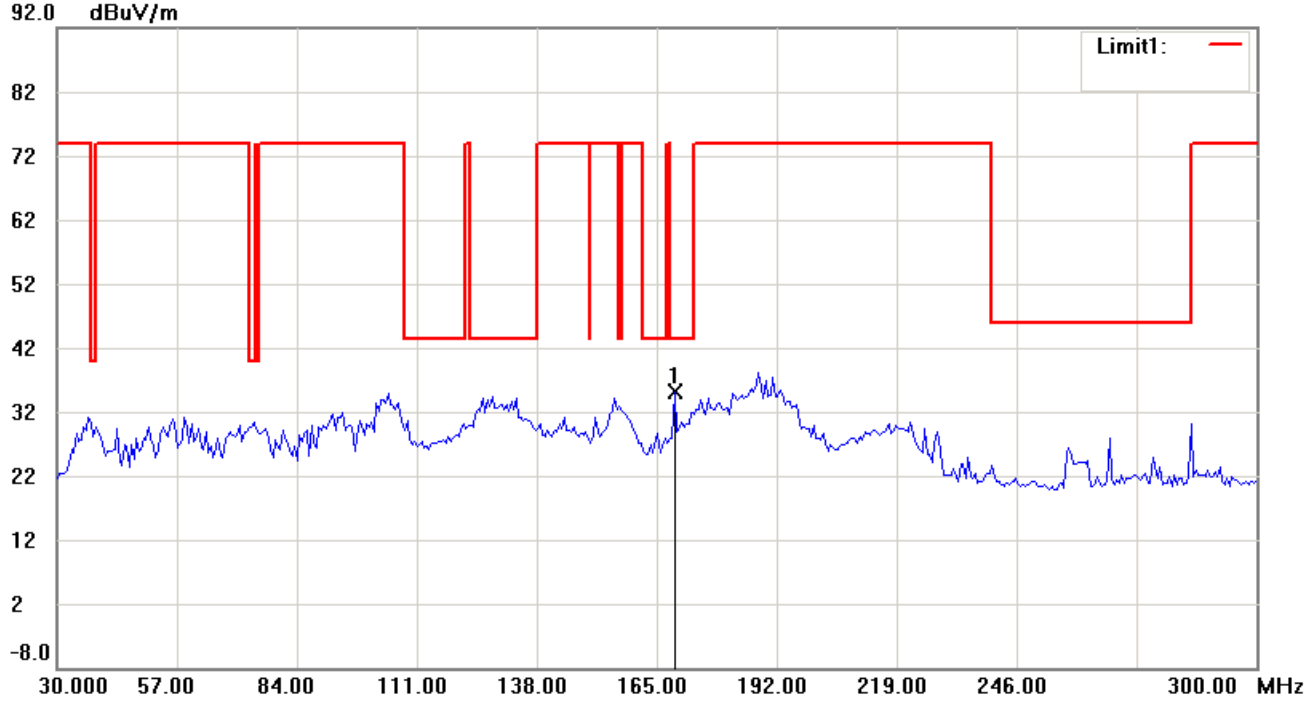


Antenna Polarization V



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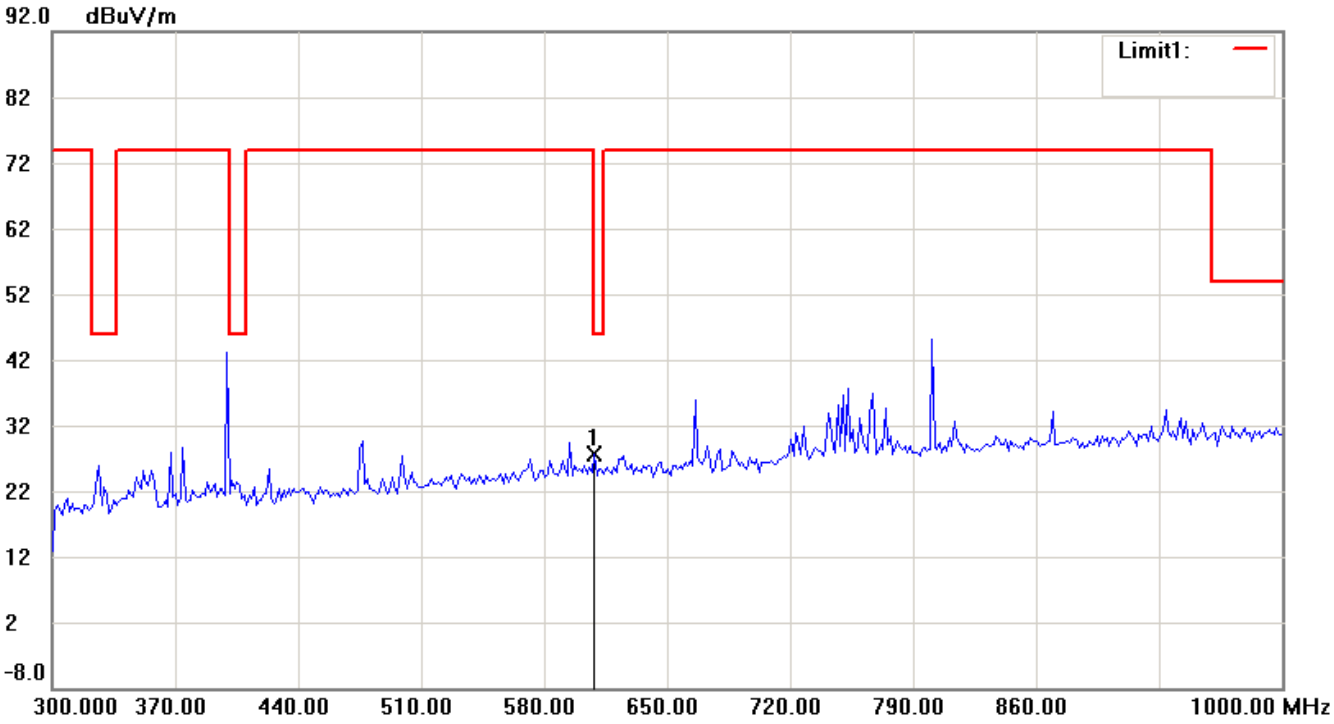

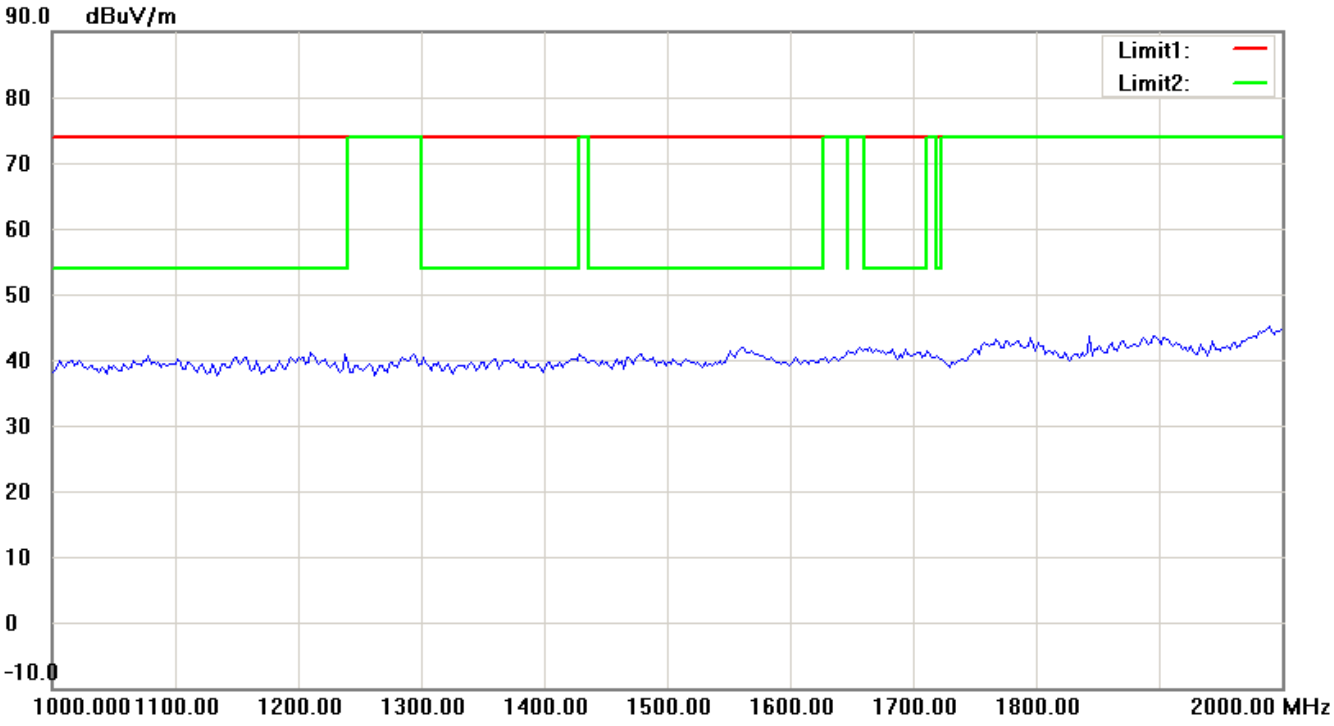

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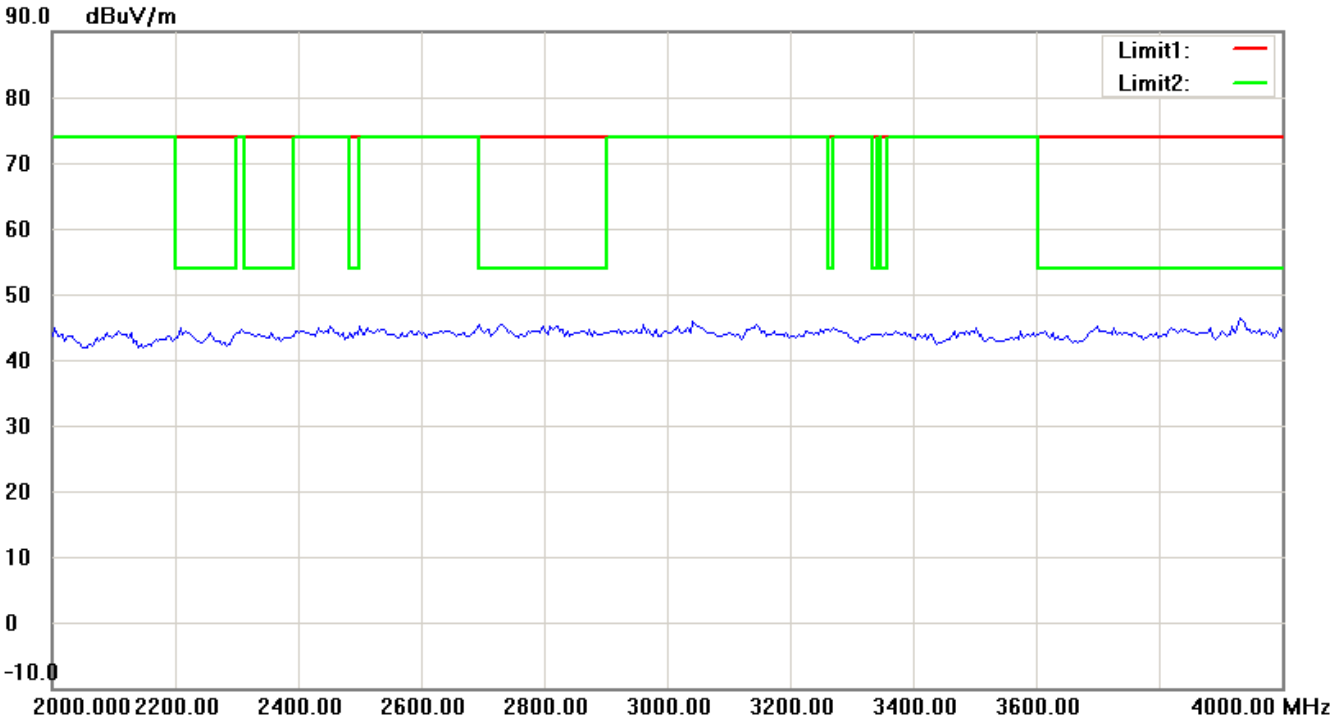

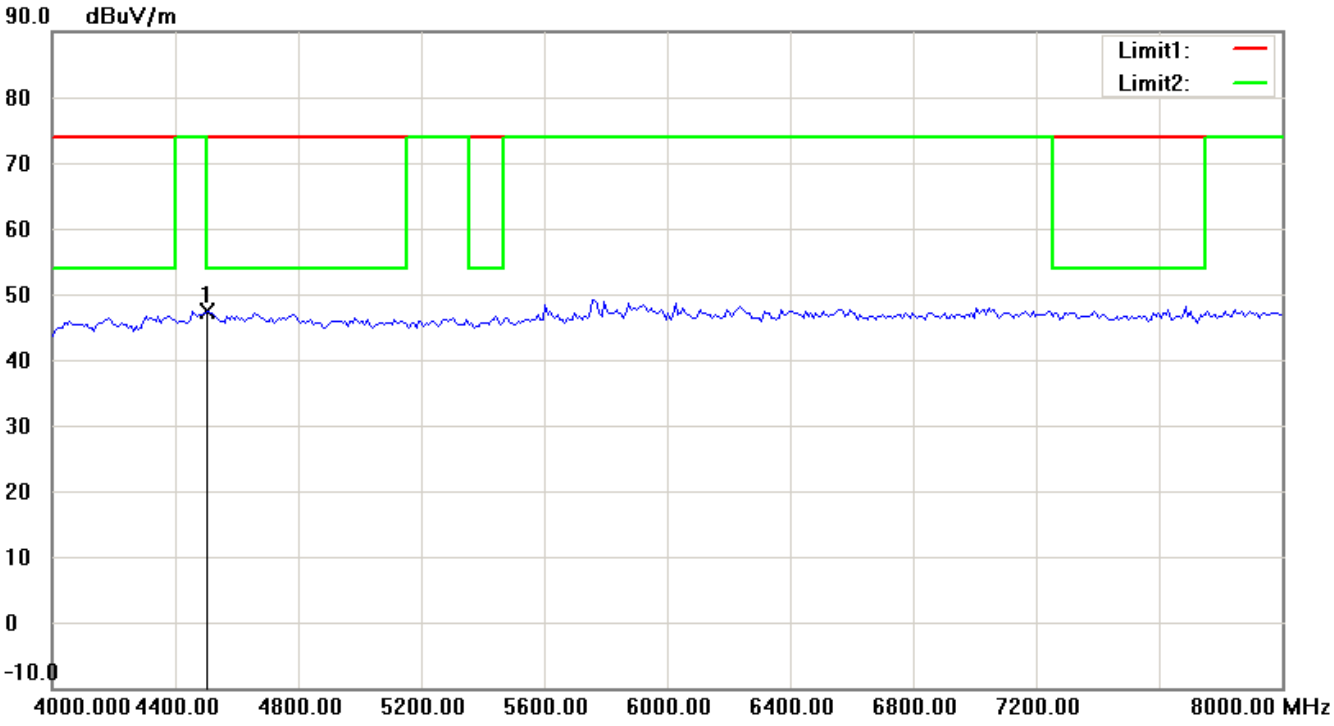

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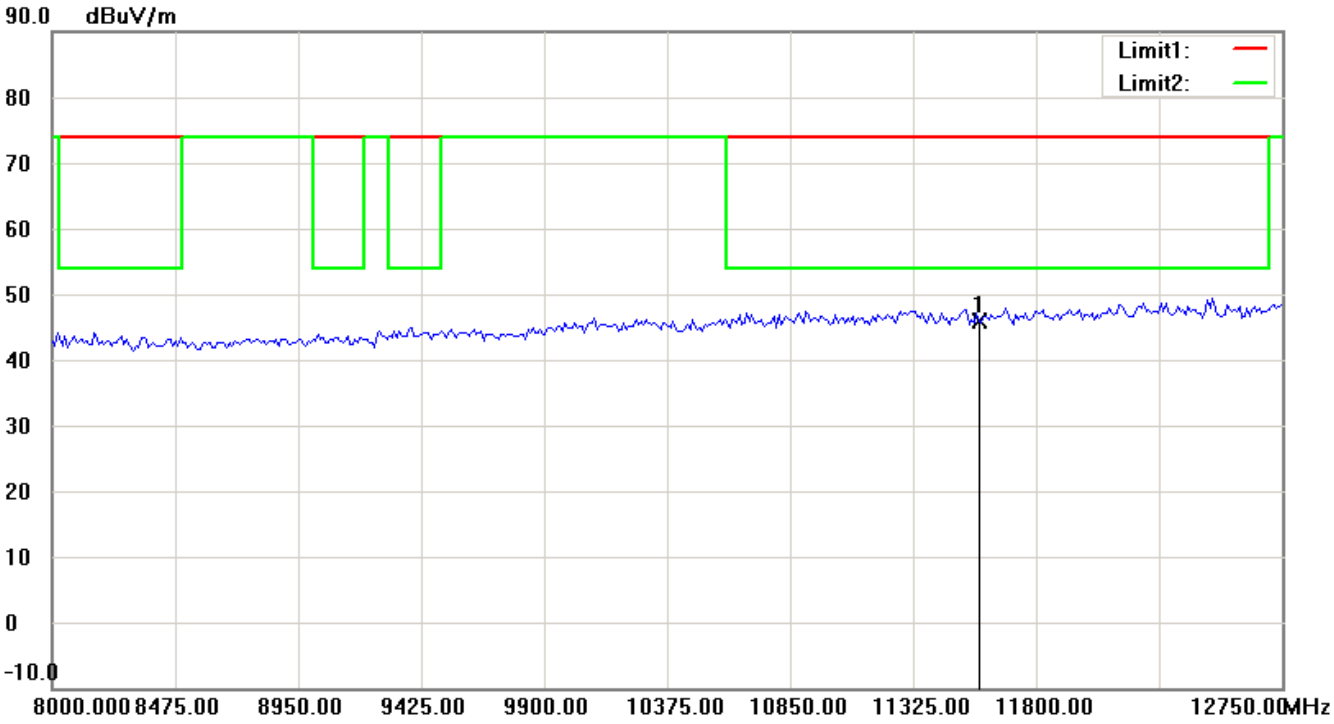

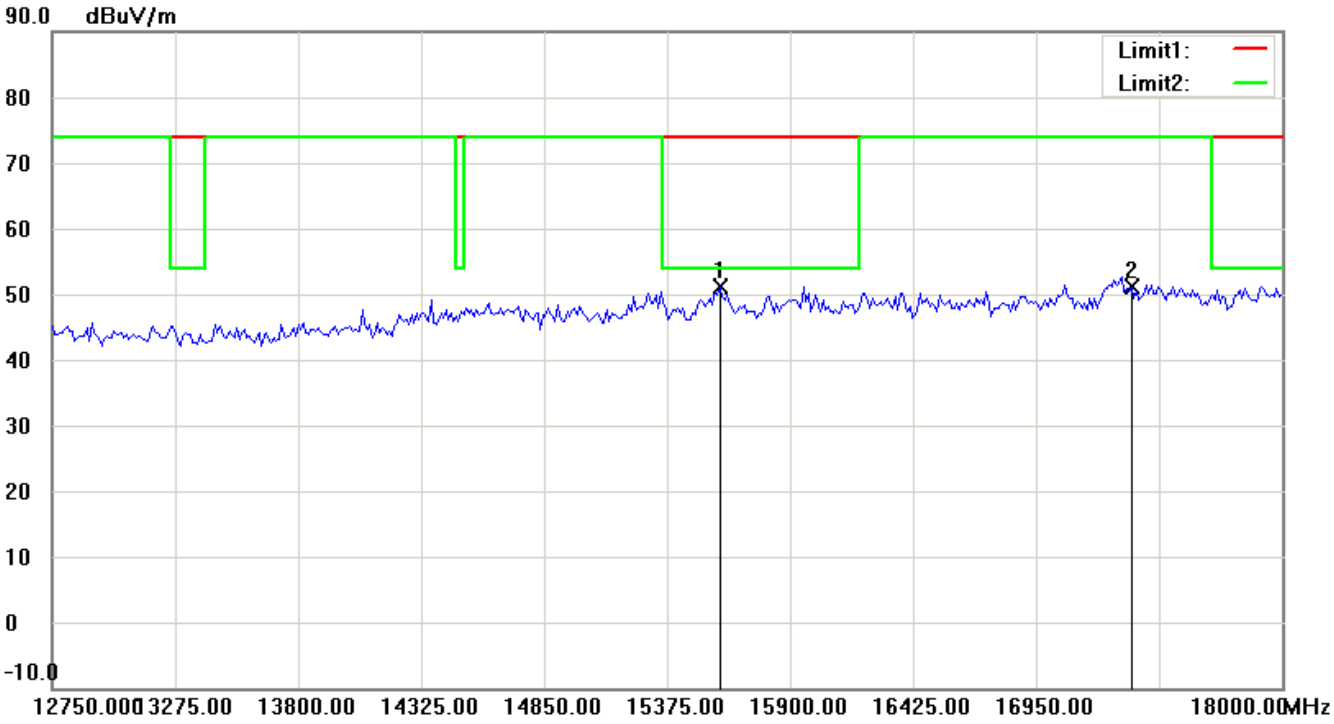

Up Line: Peak Limit Line Down Line: Ave Limit Line
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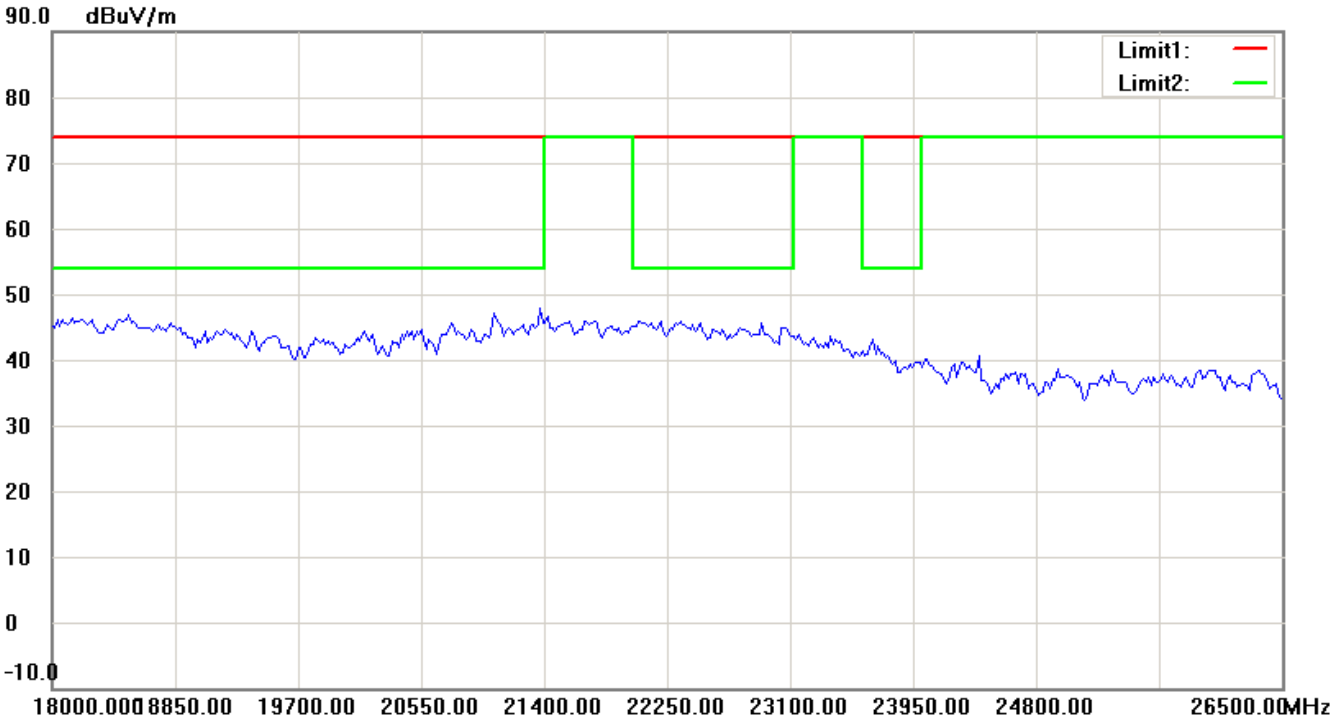
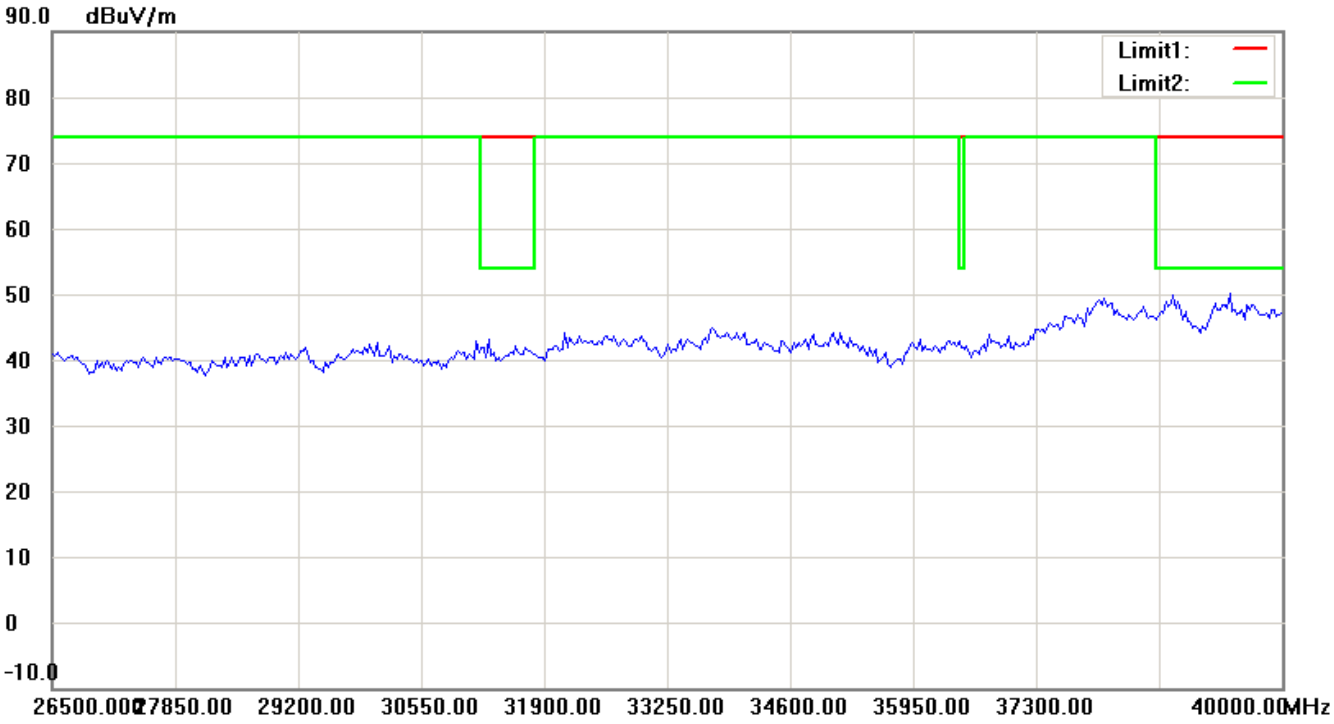
FCC ID: ODMAM5N





Up Line: Peak Limit Line Down Line: Ave Limit Line
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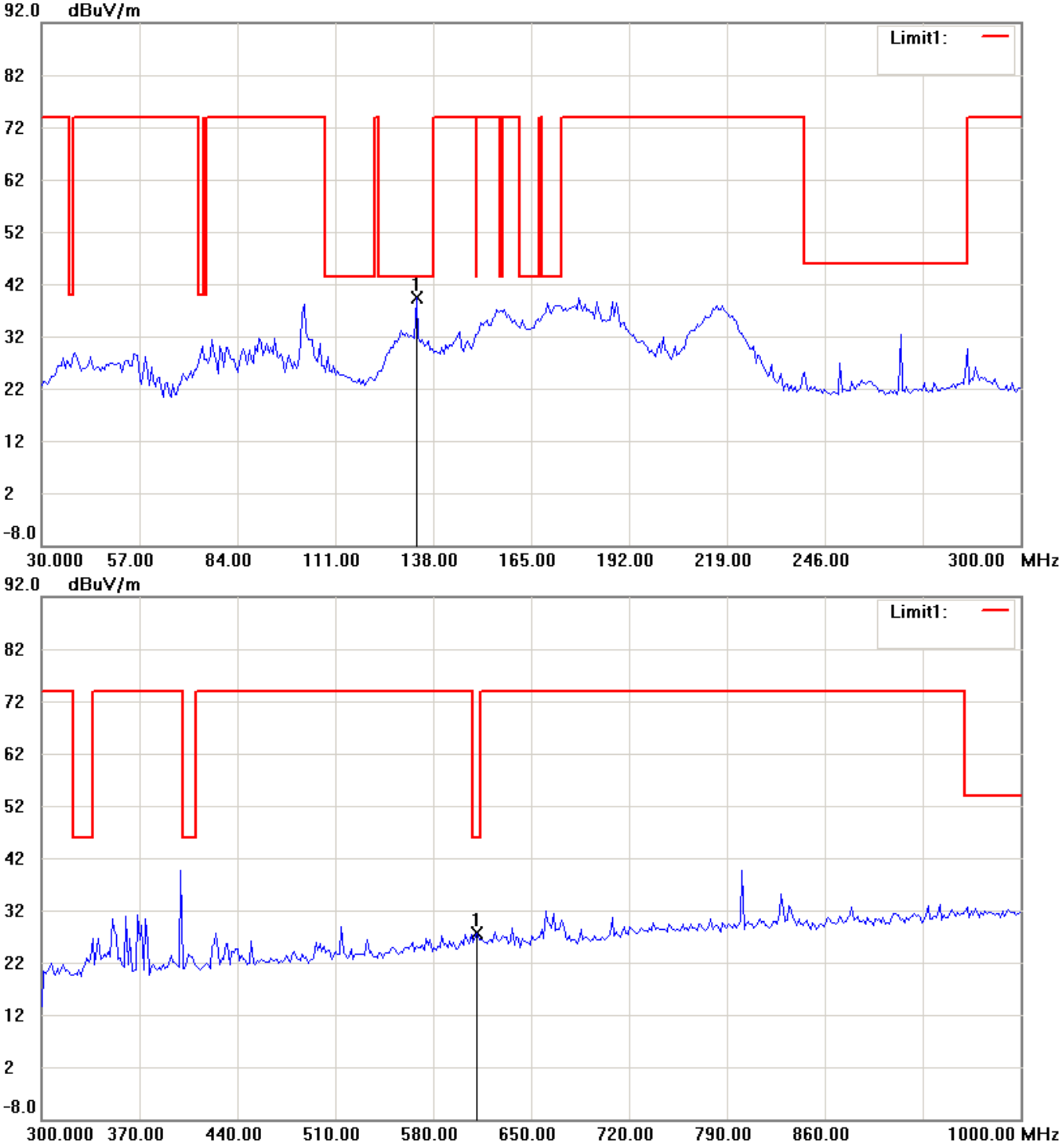
Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N

802.11a_CH165
Antenna Polarization H



Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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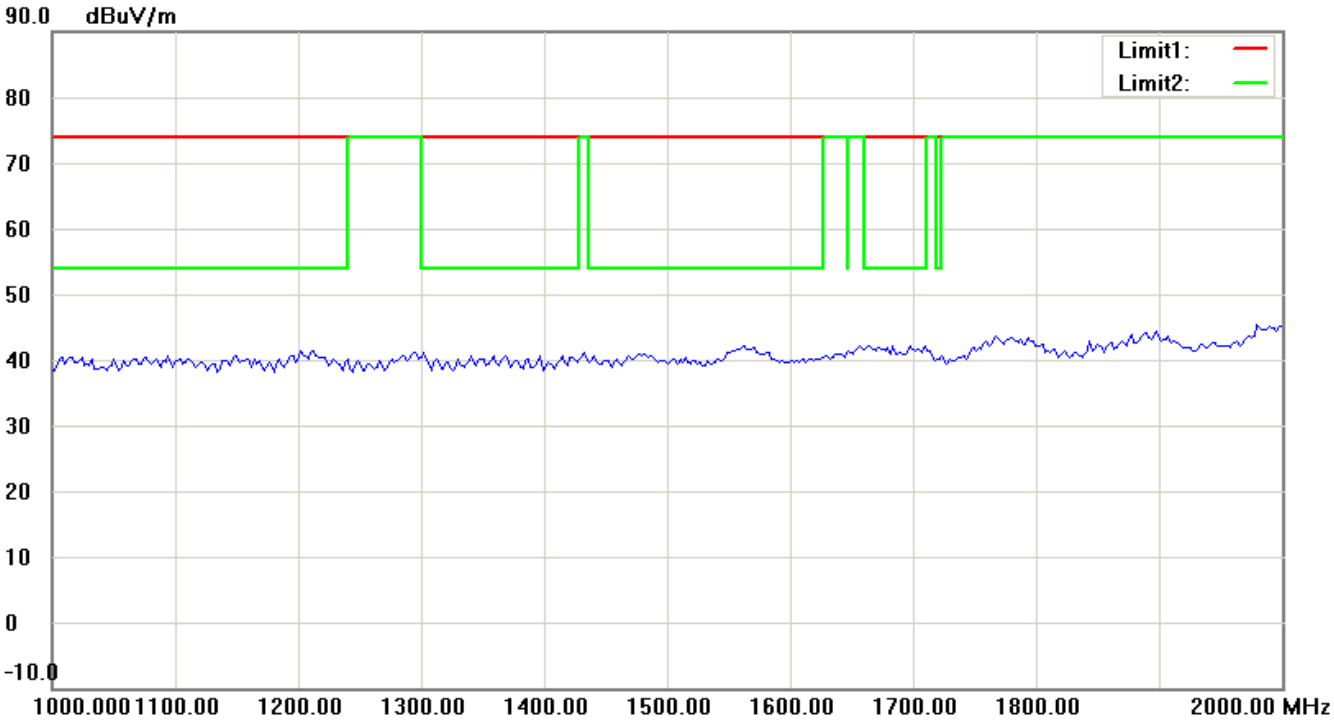
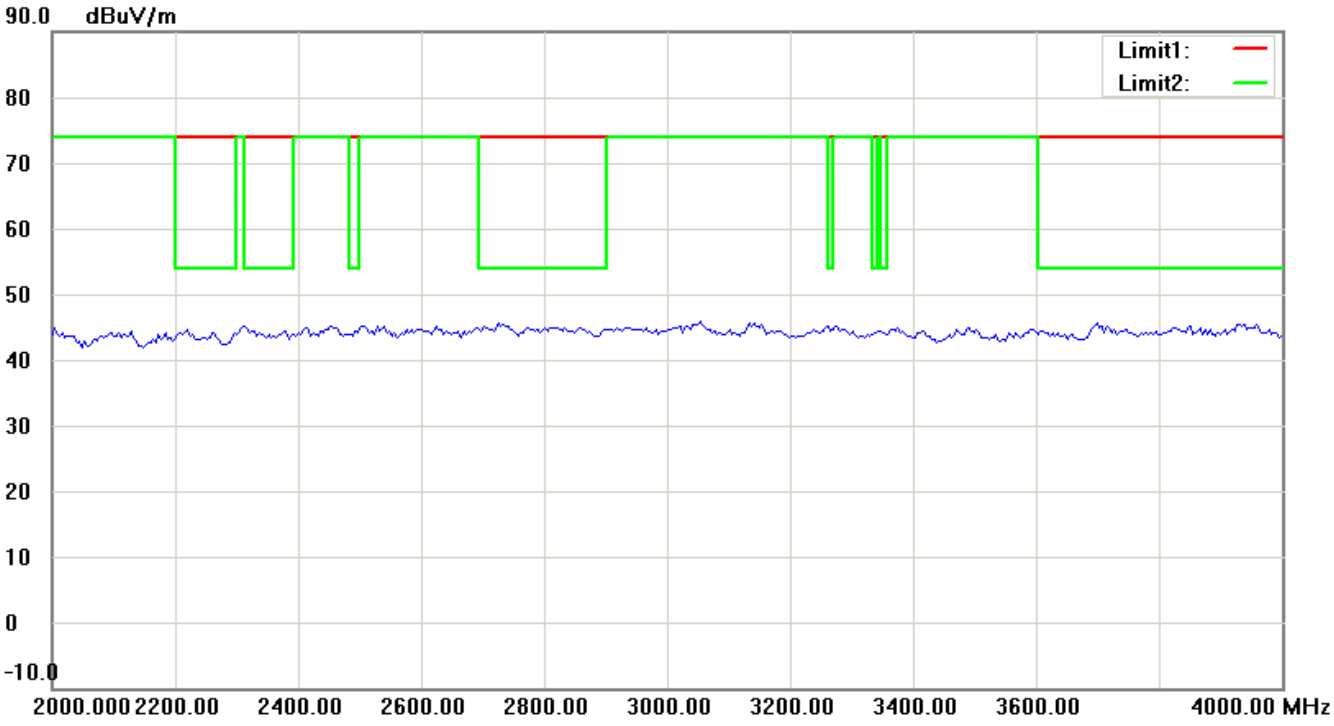
Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N





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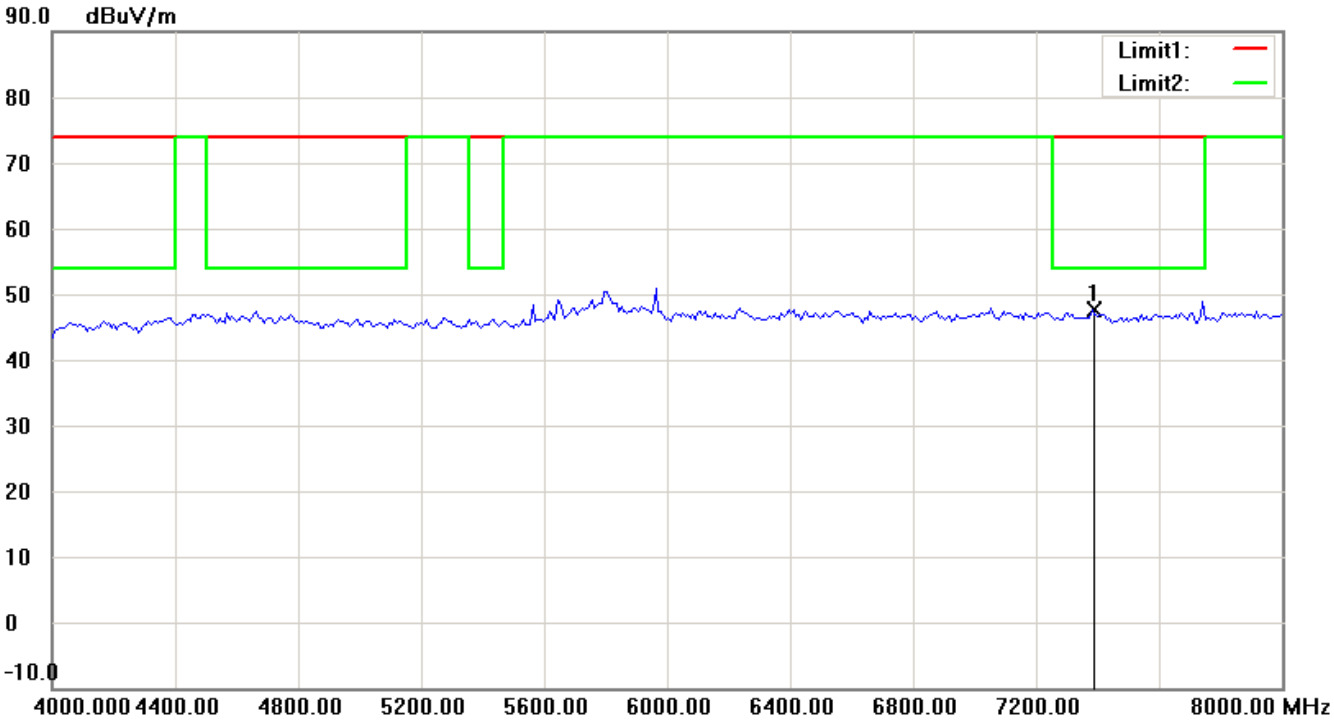

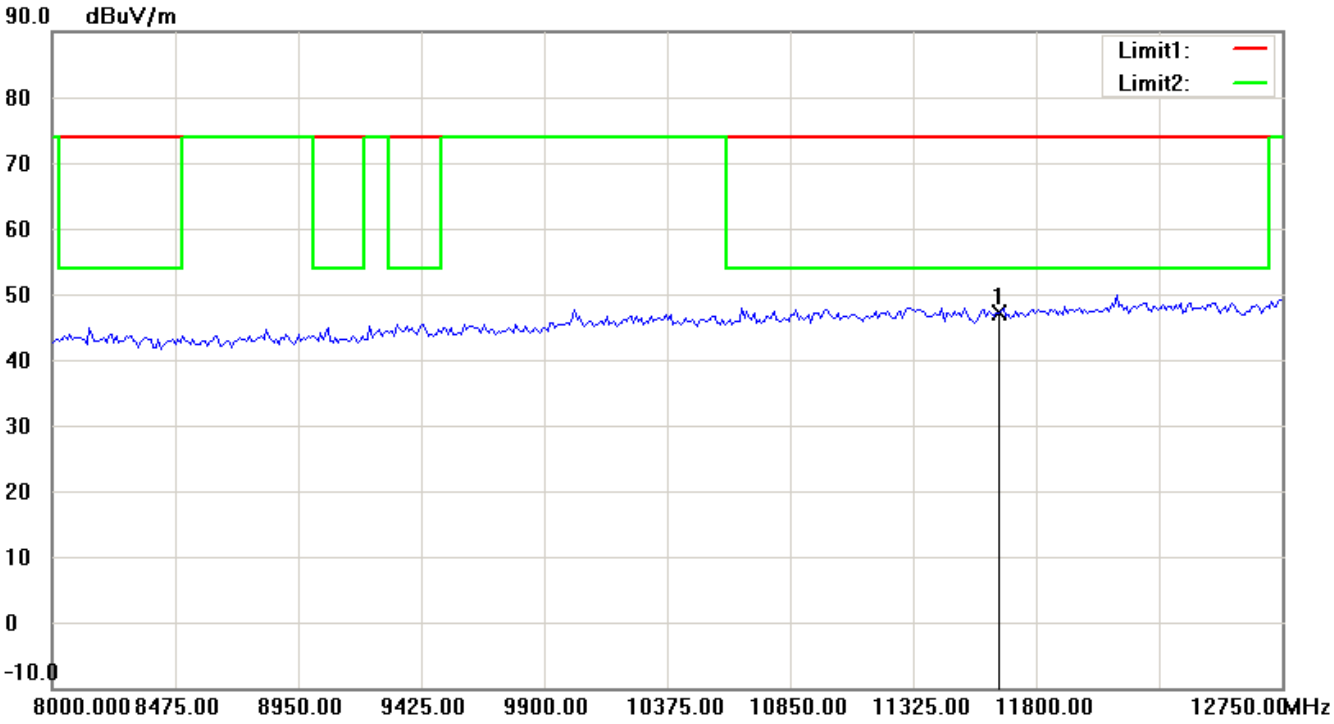

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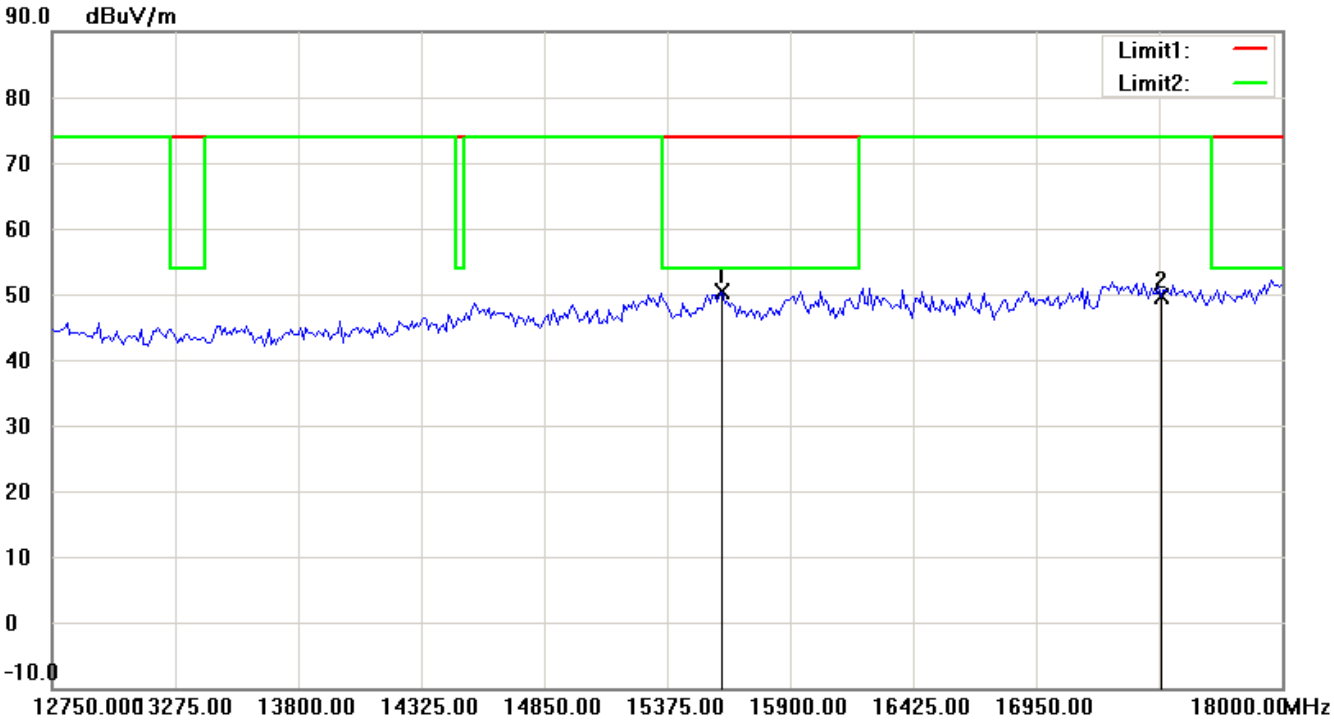

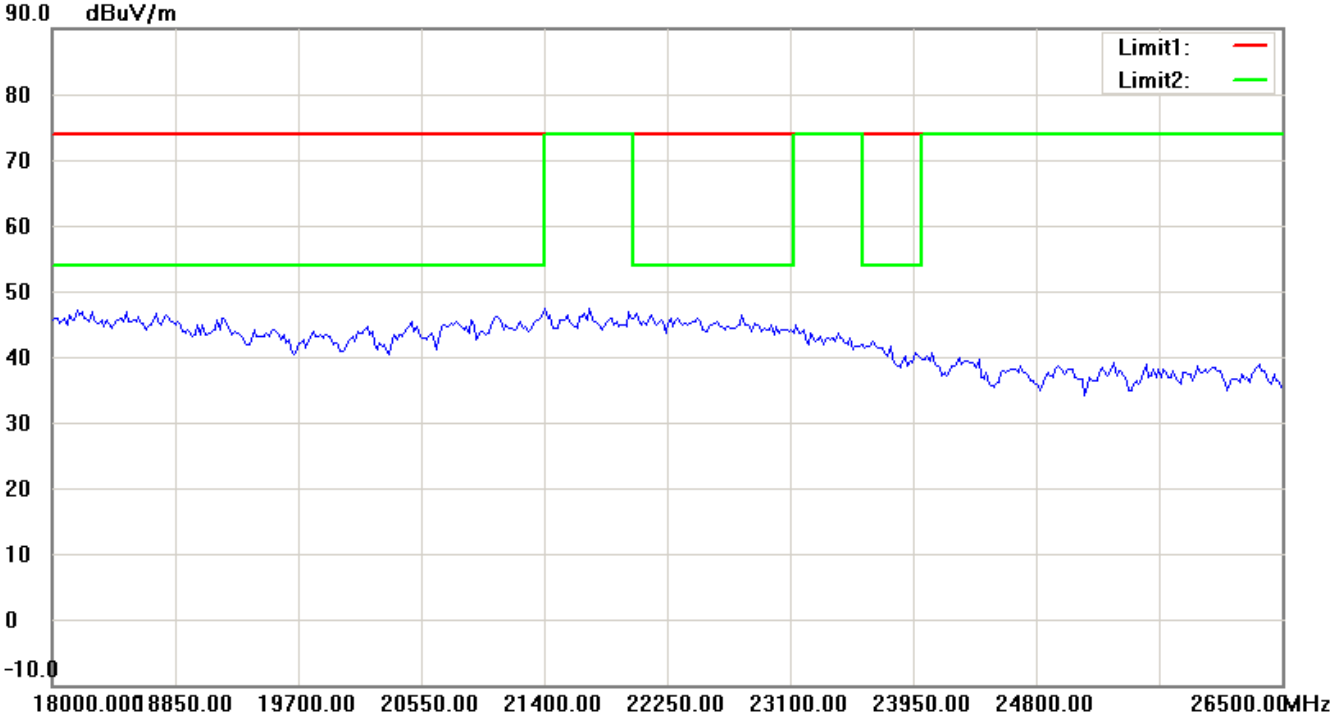

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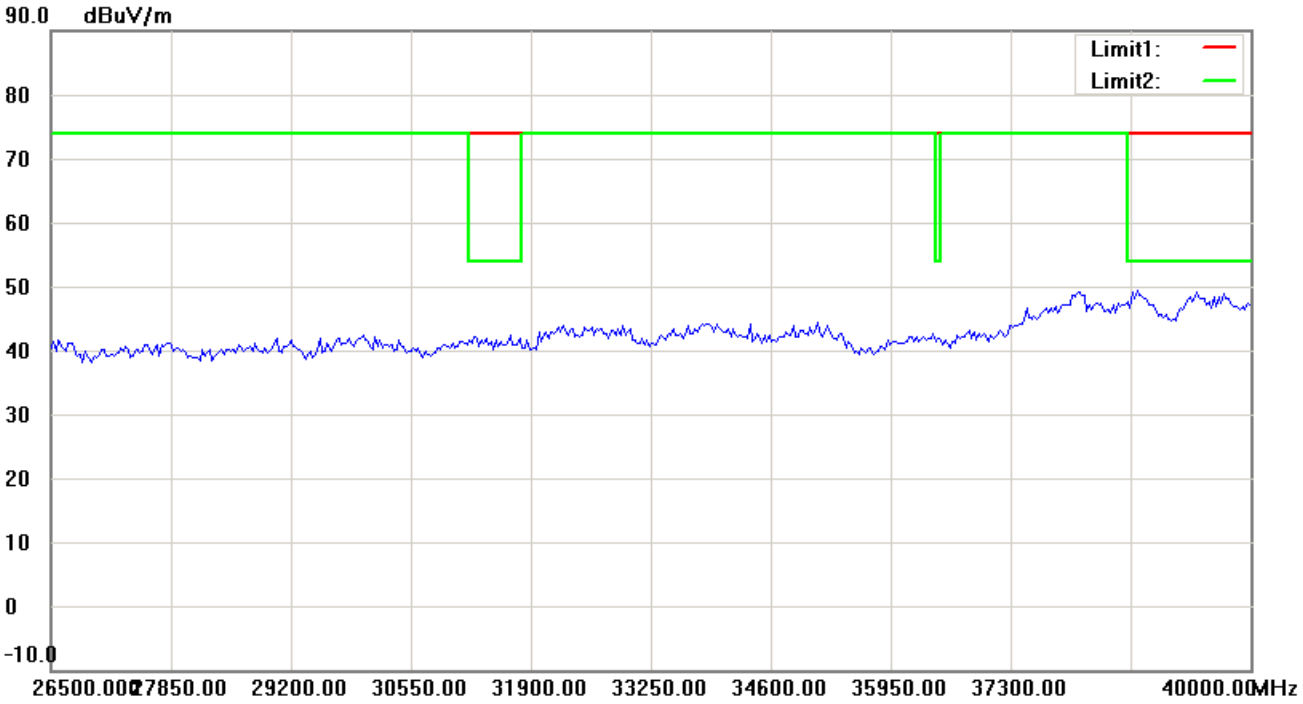
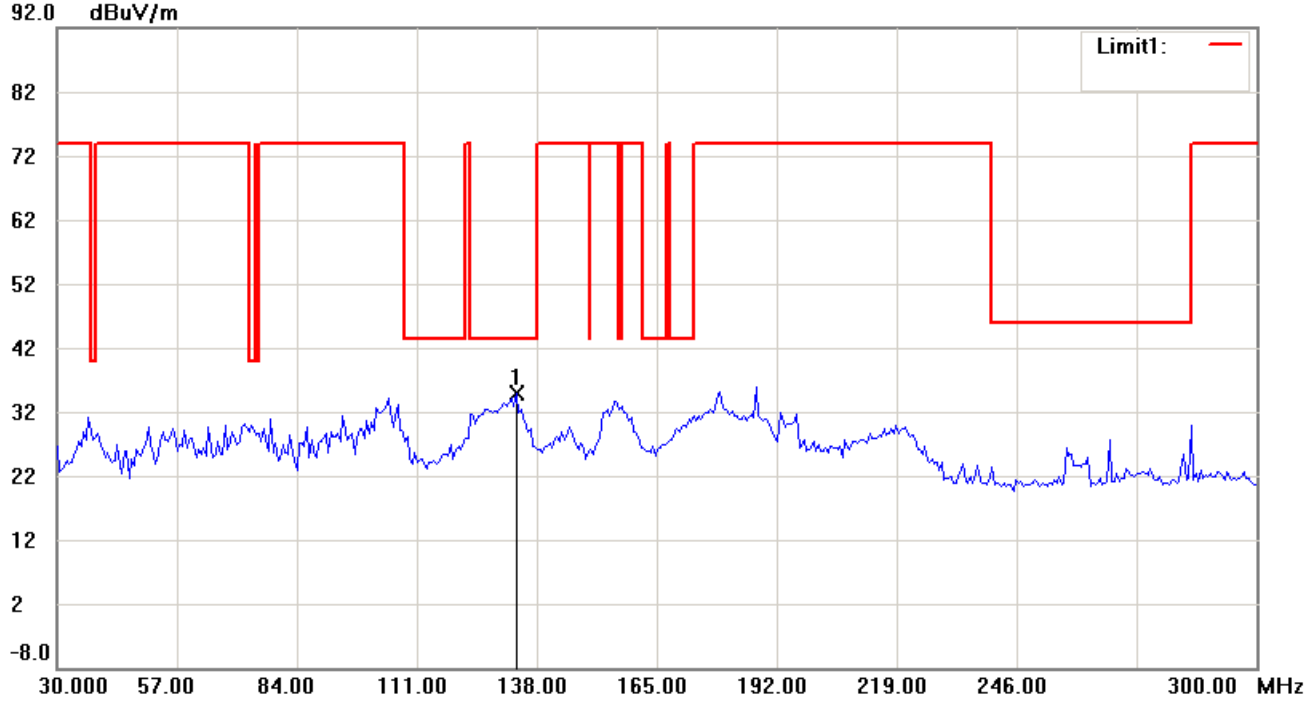


Antenna Polarization V



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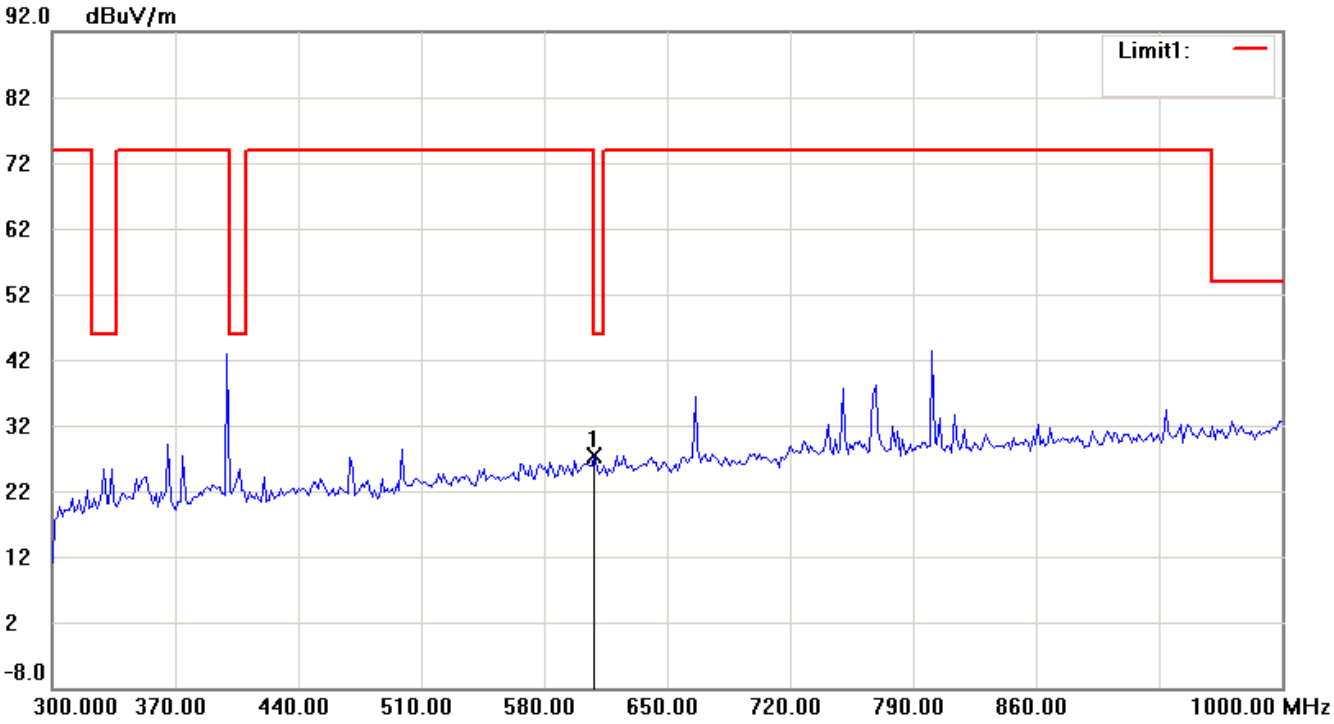

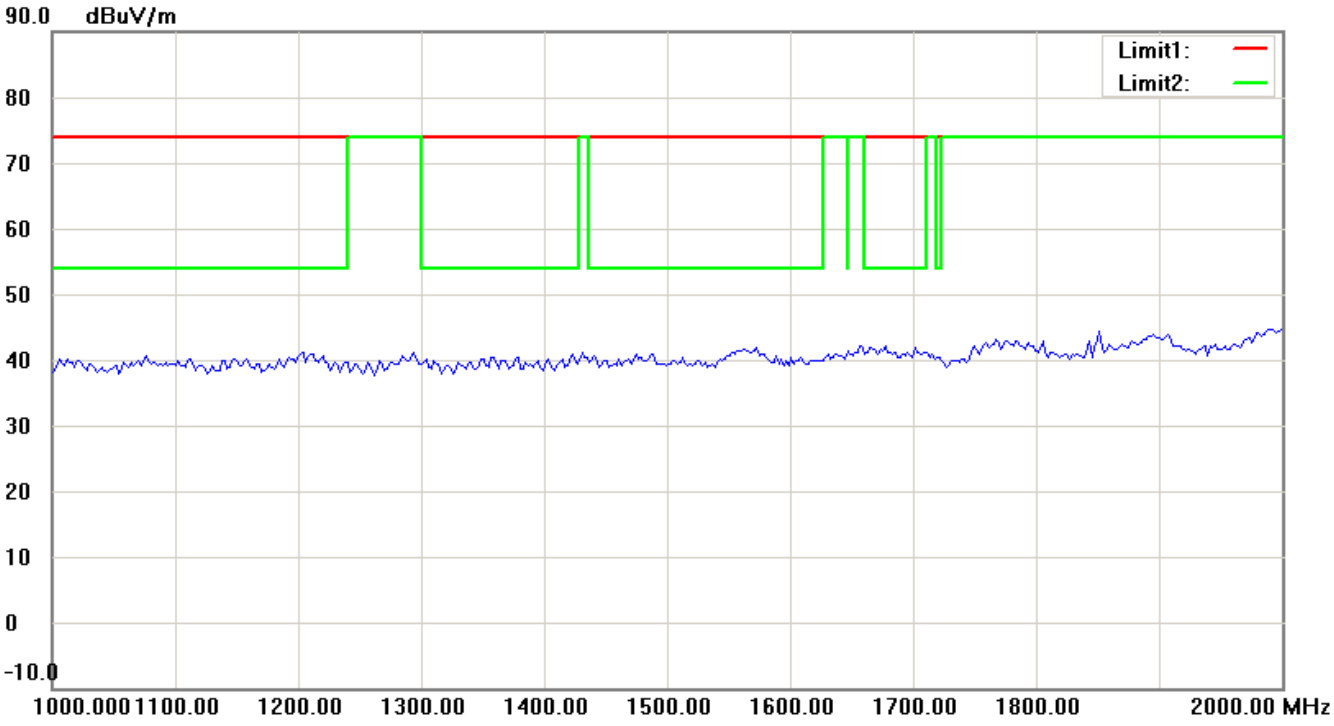

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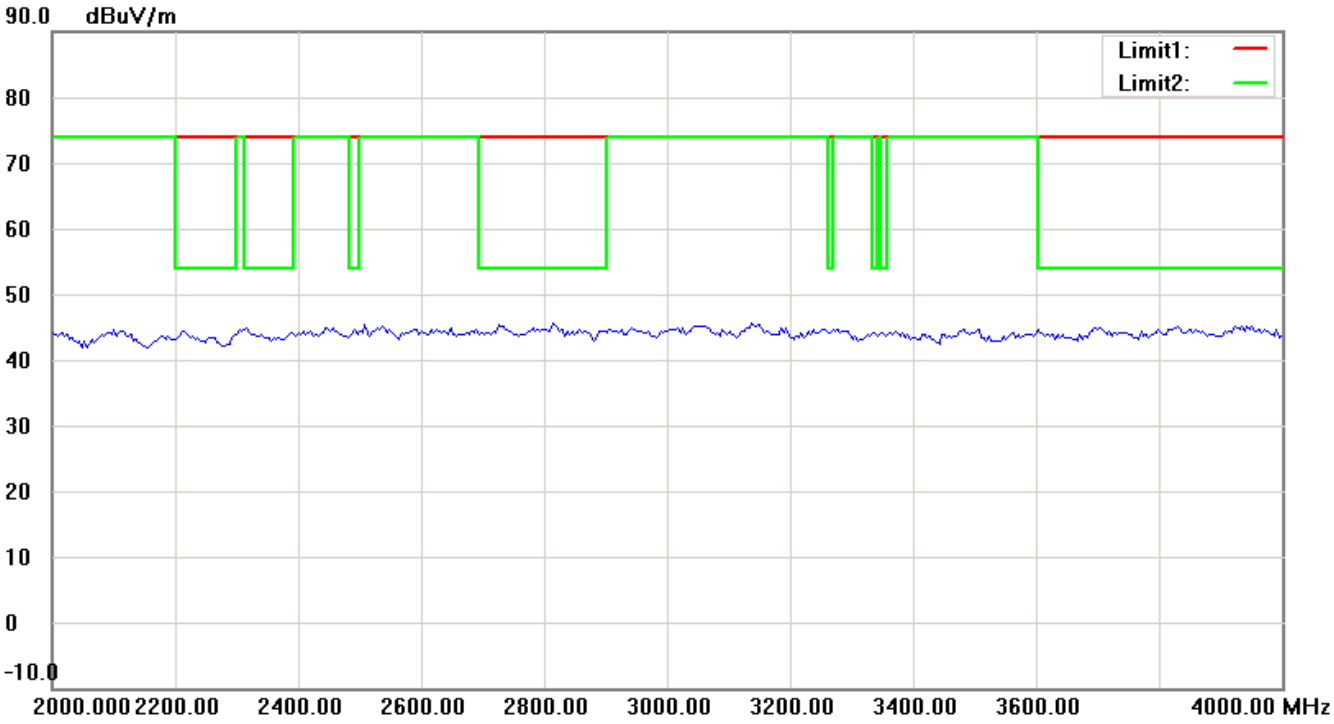

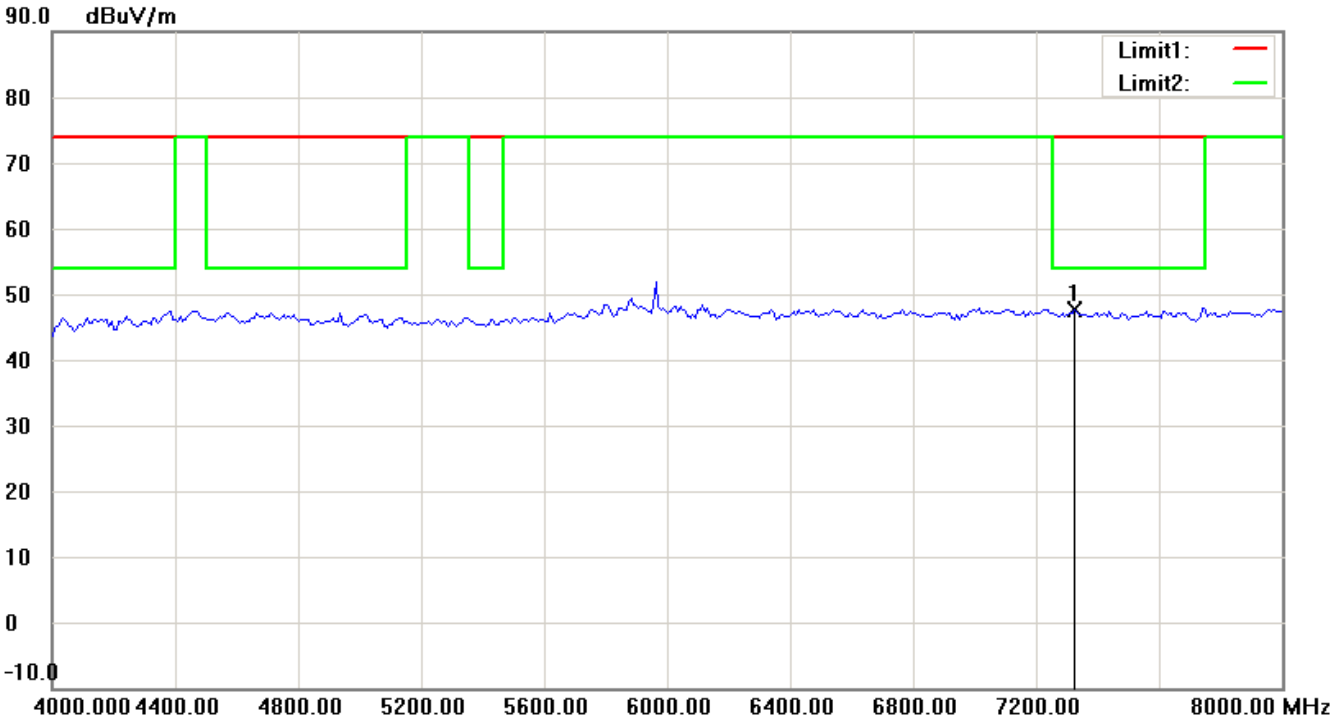

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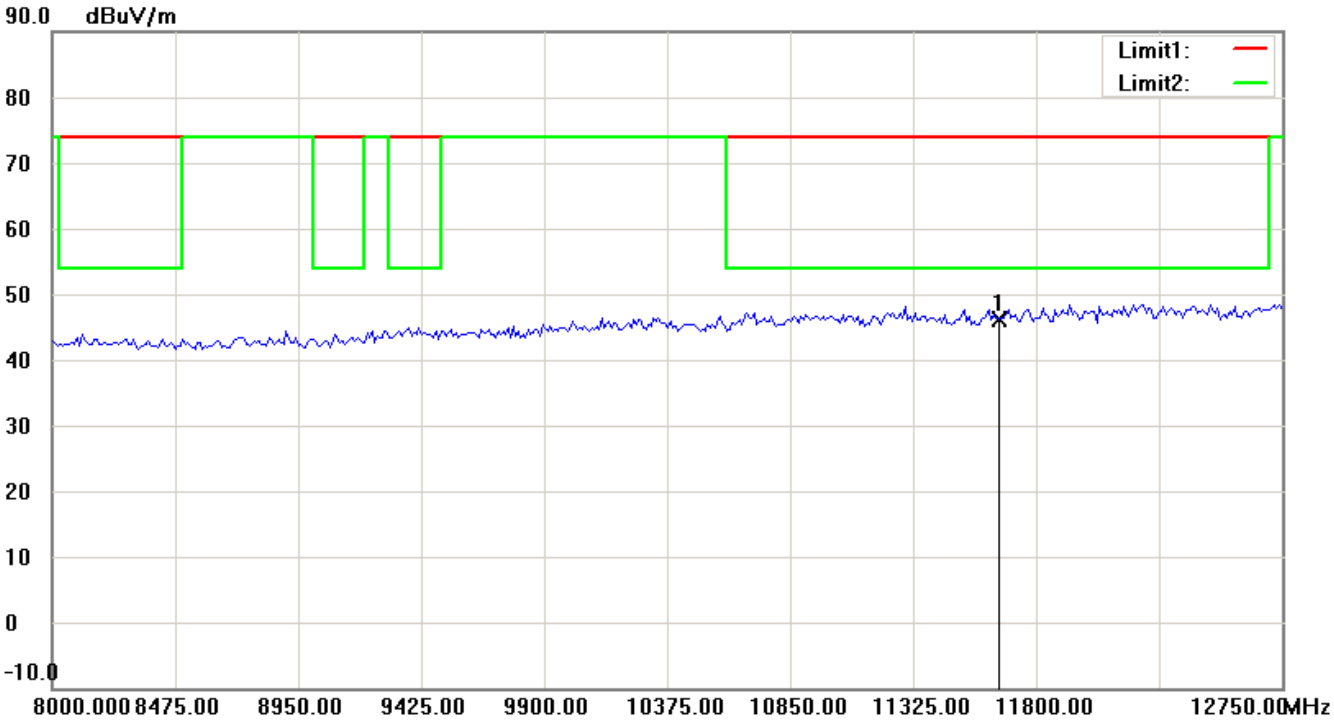

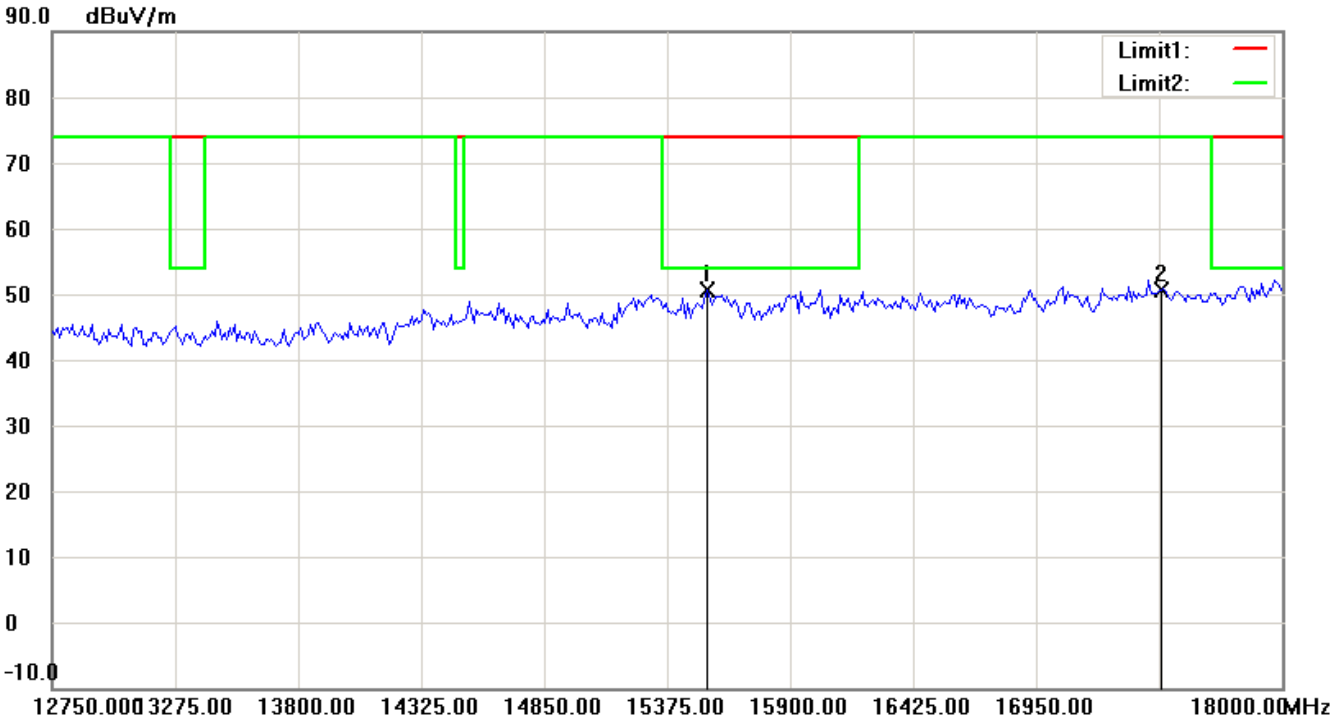

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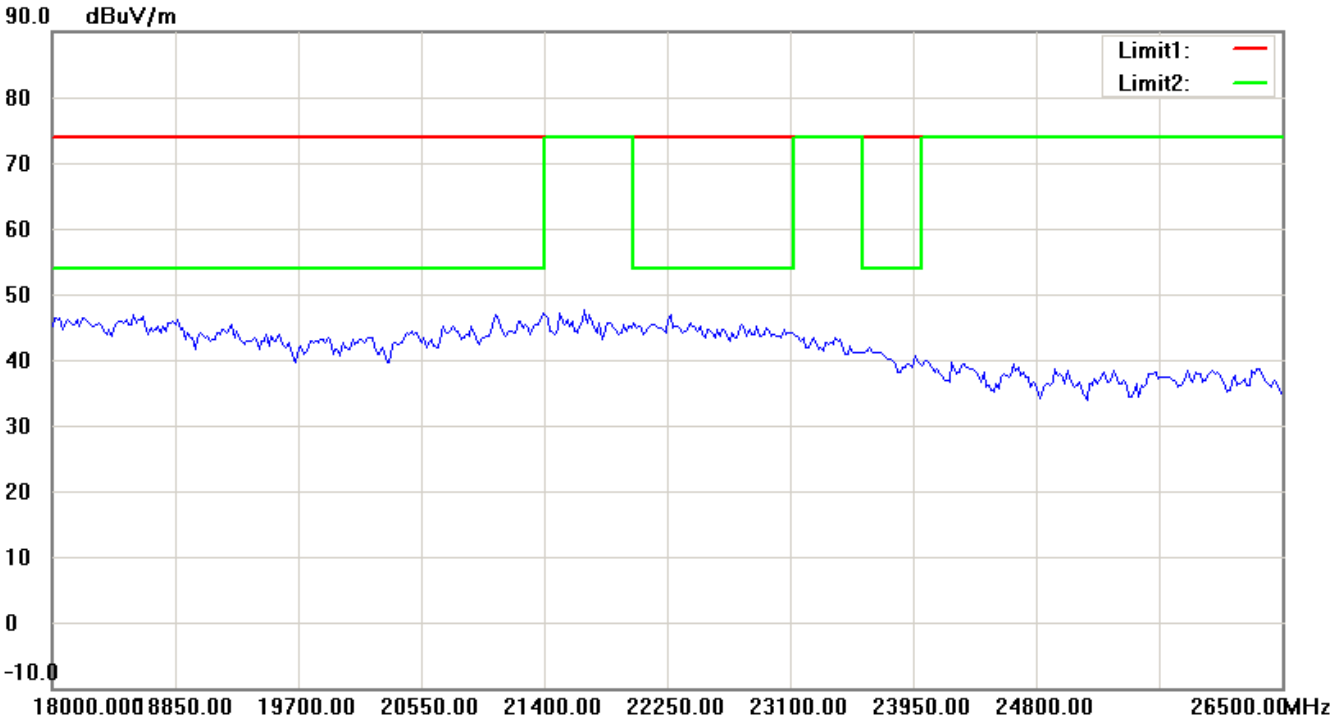

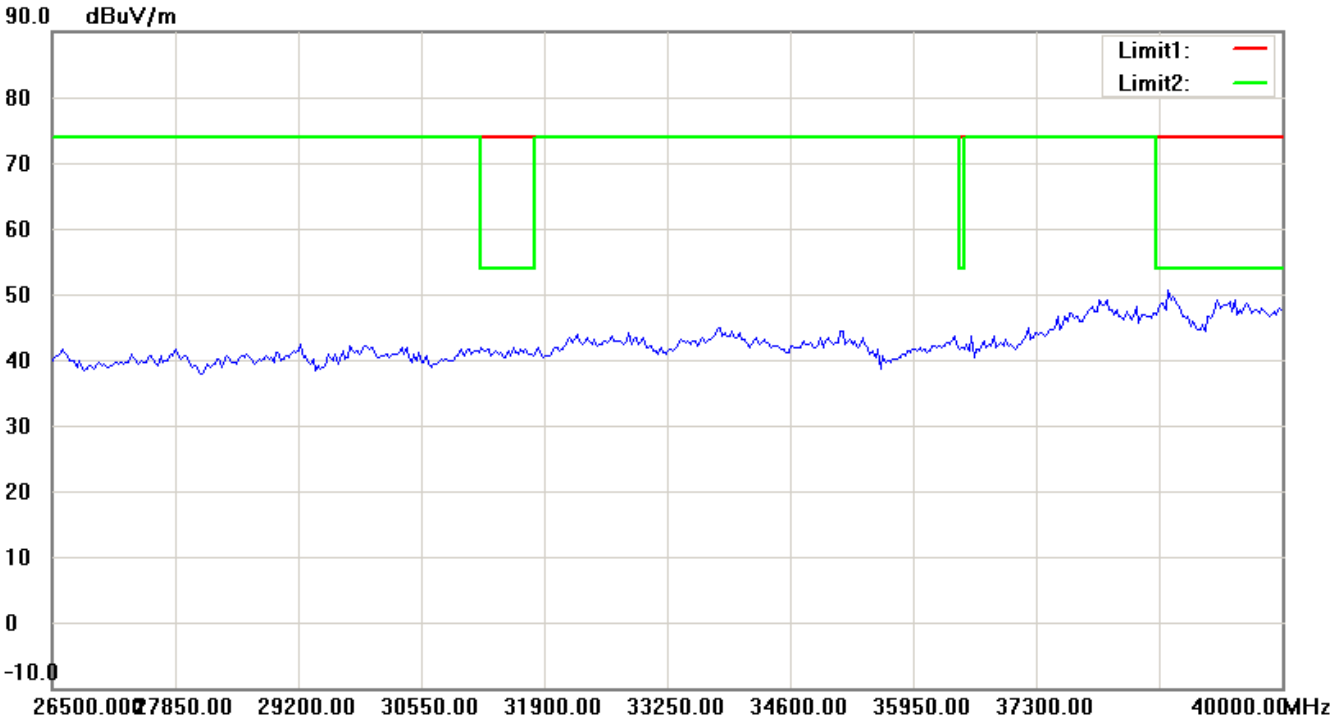

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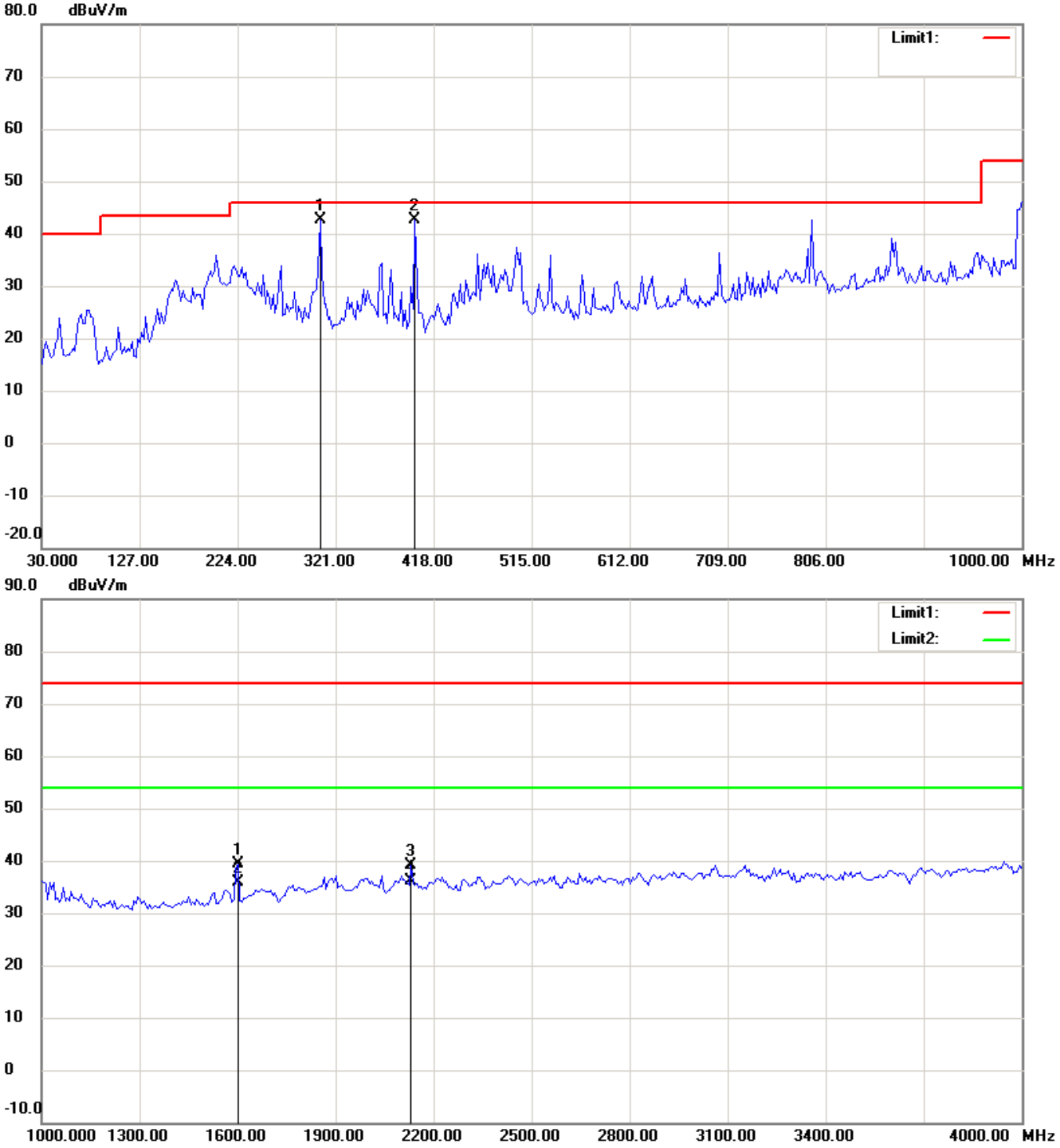
Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N

801.11n 20M CH149
Antenna Polarization H



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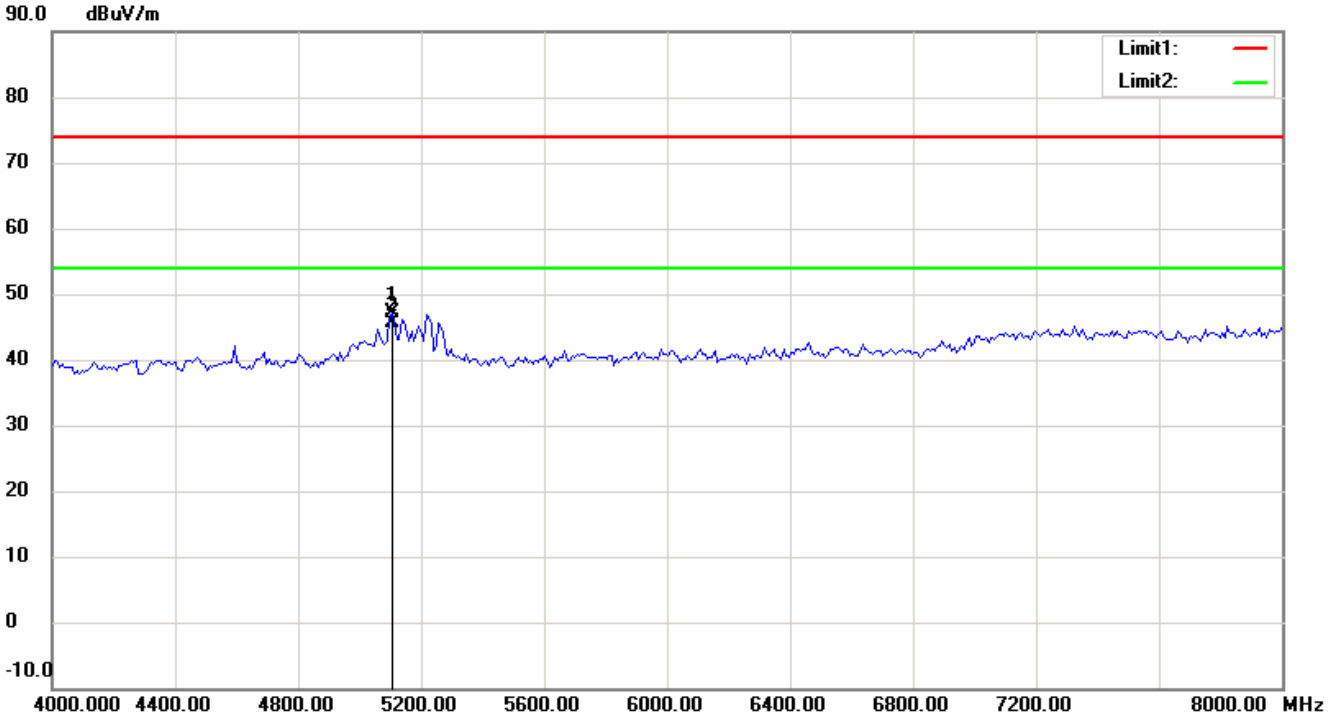

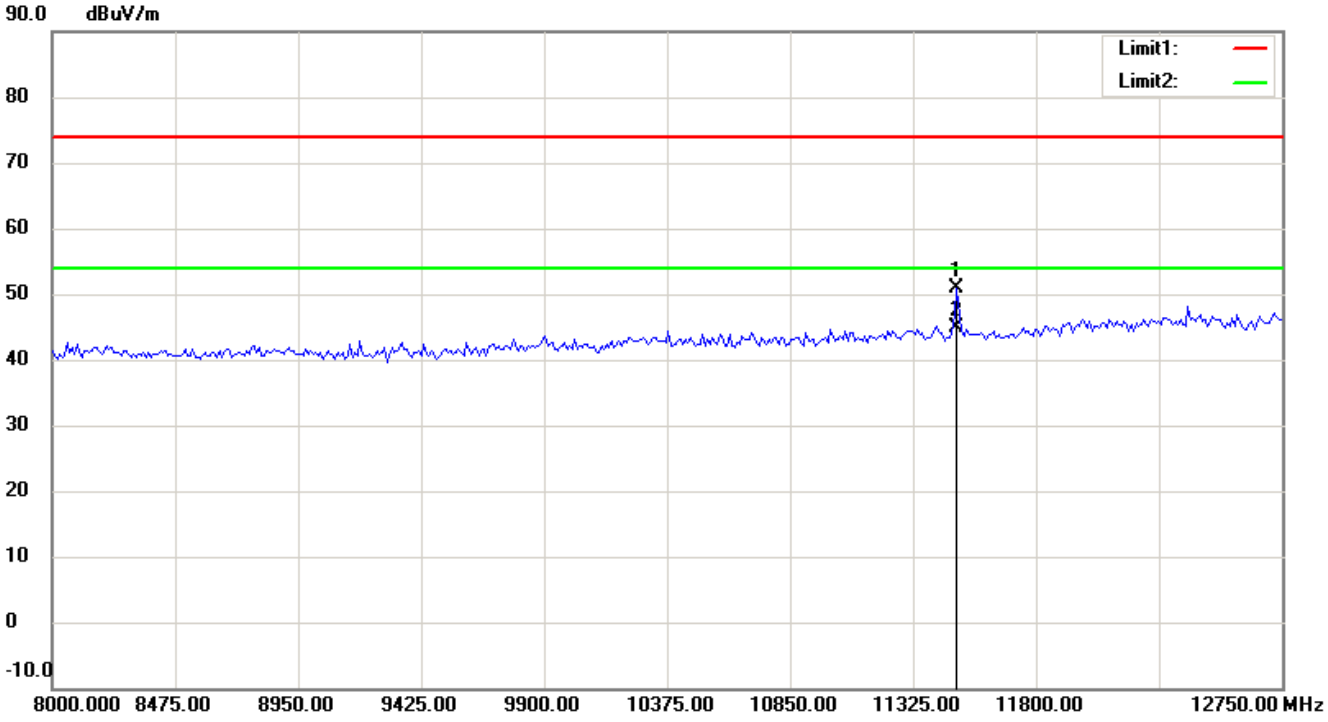

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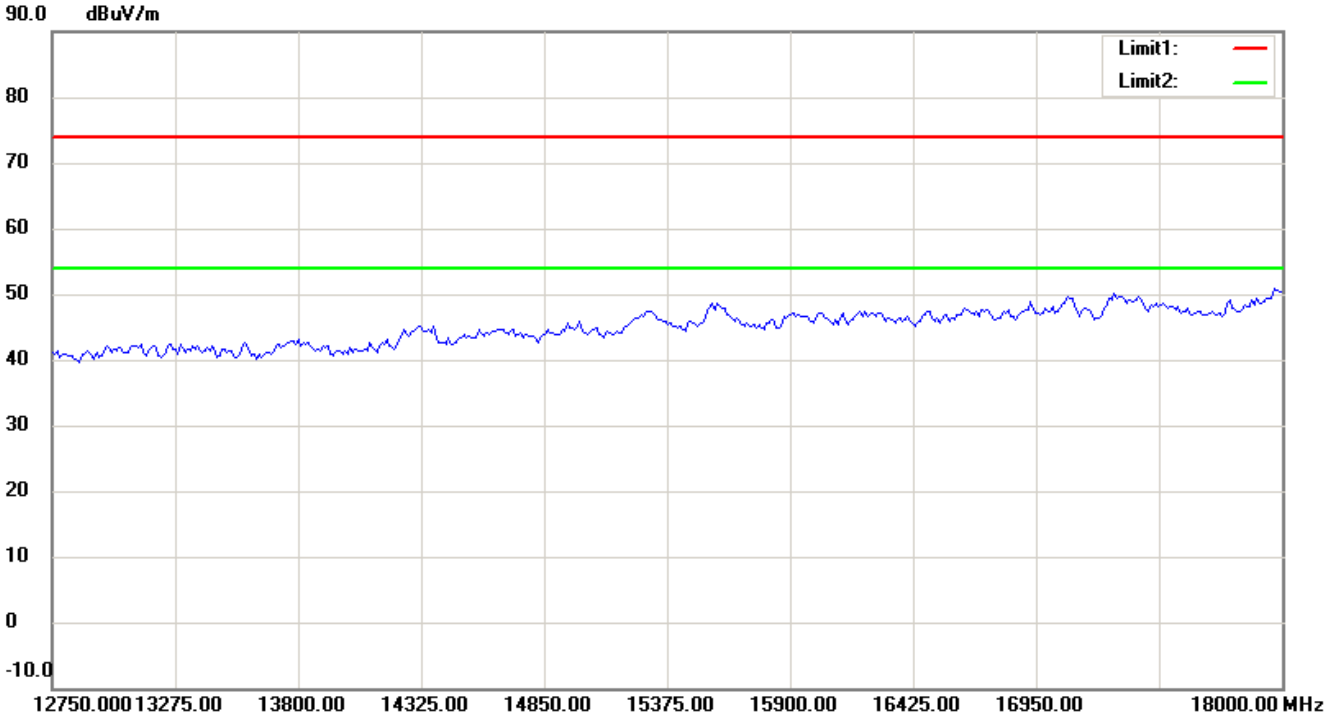

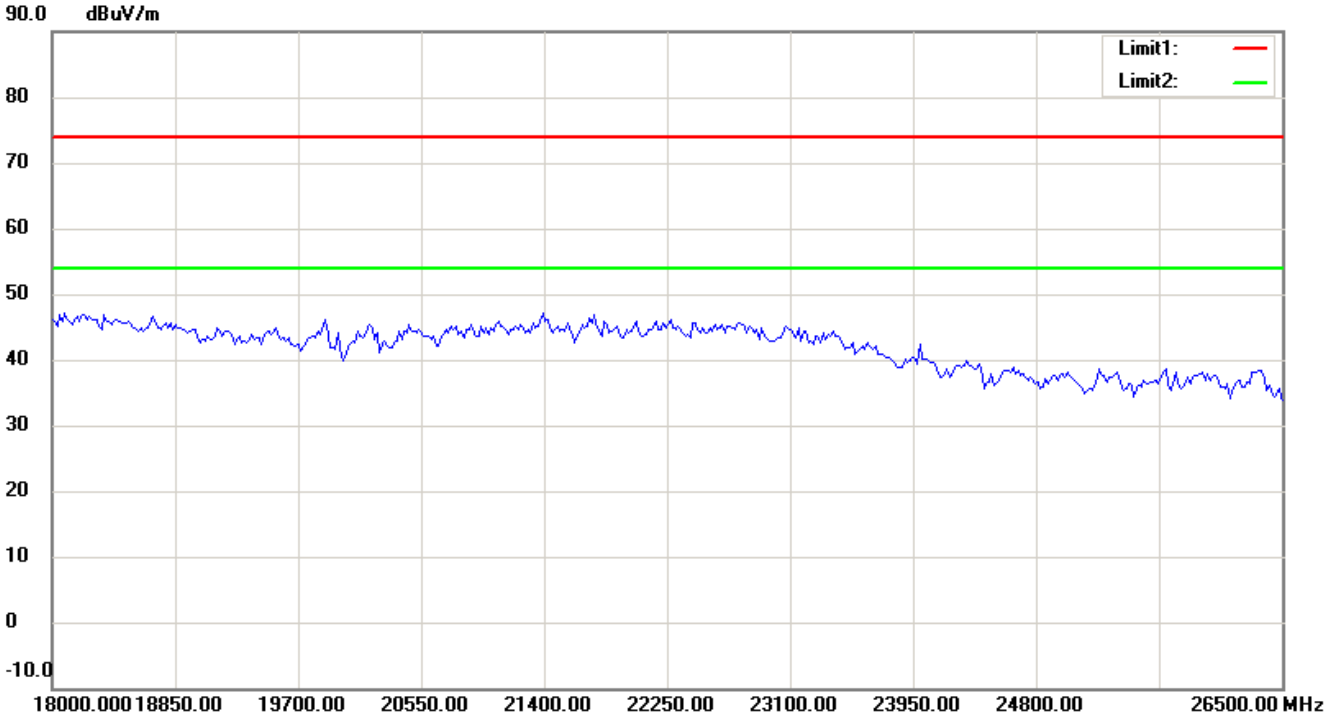

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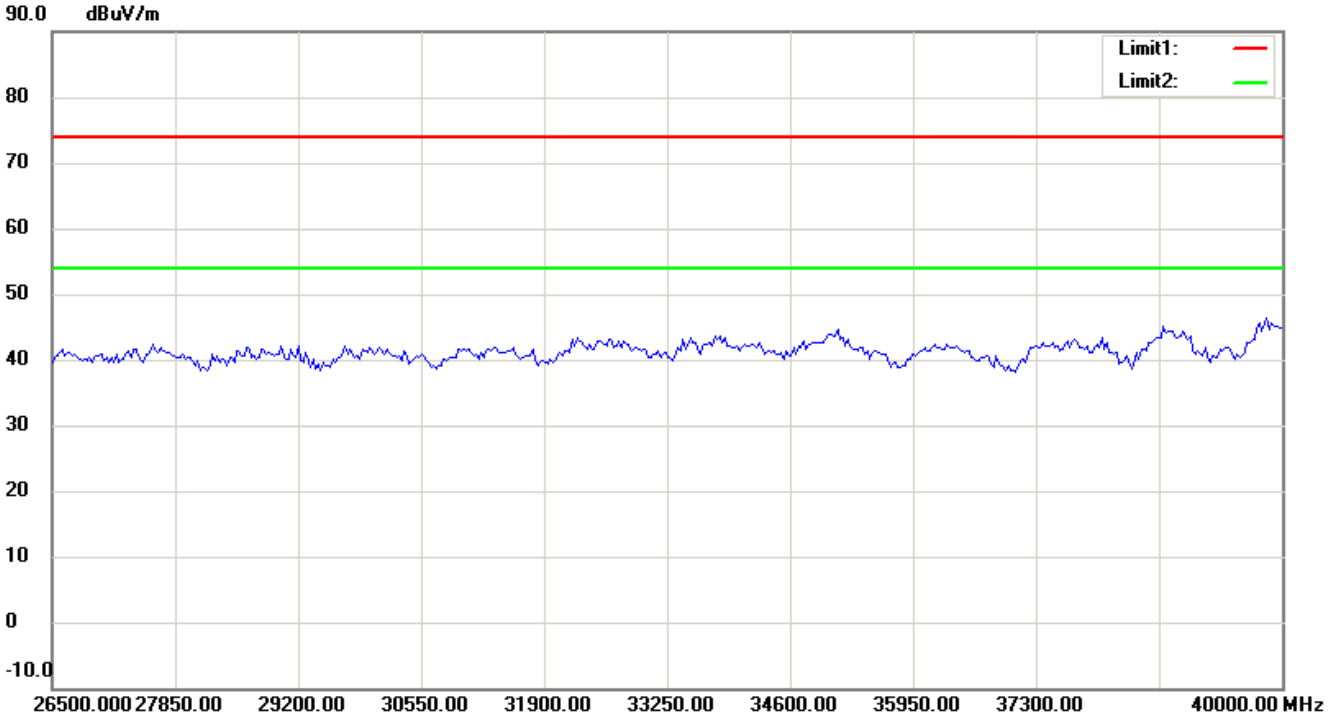
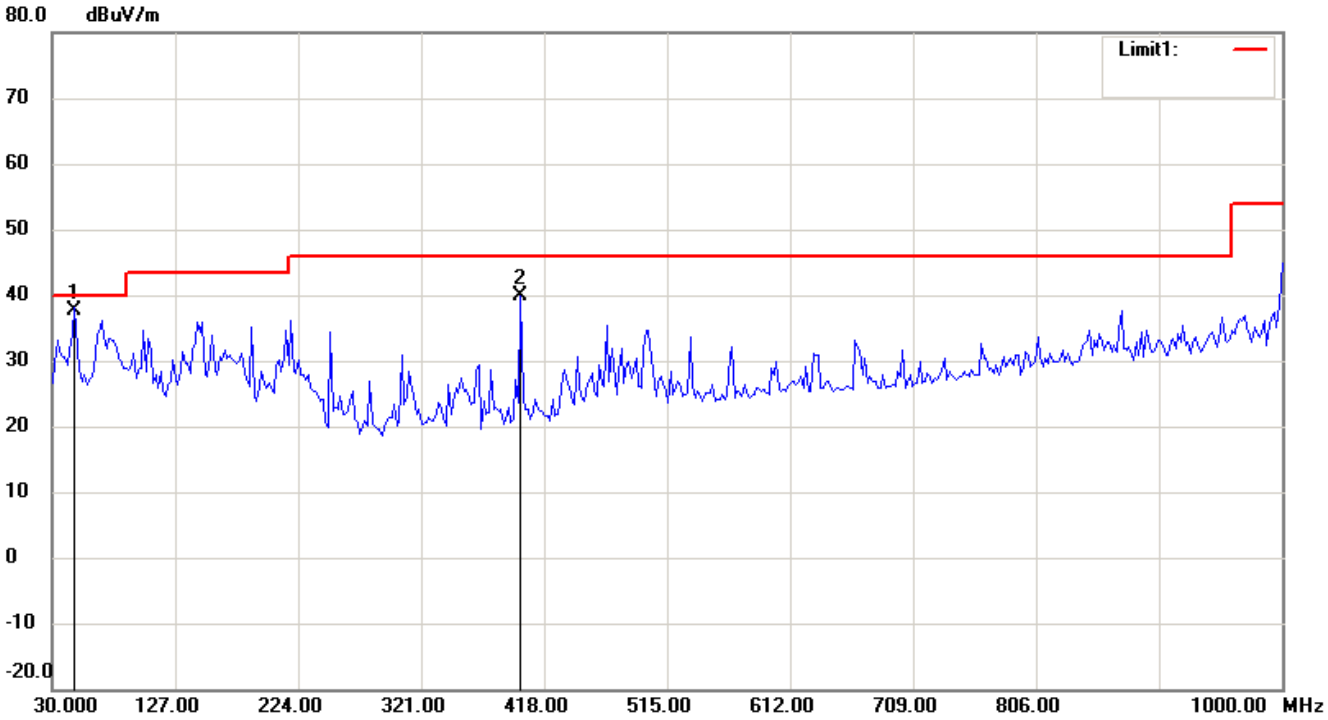


Antenna Polarization V



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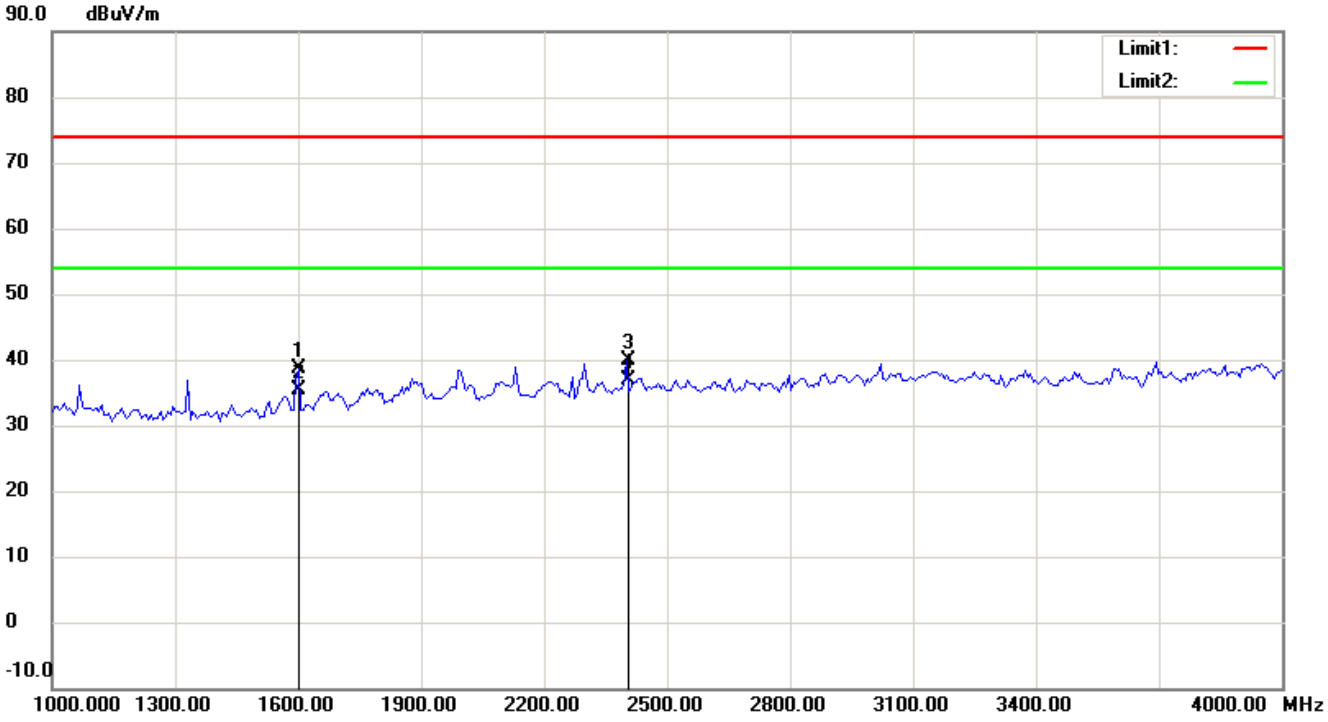

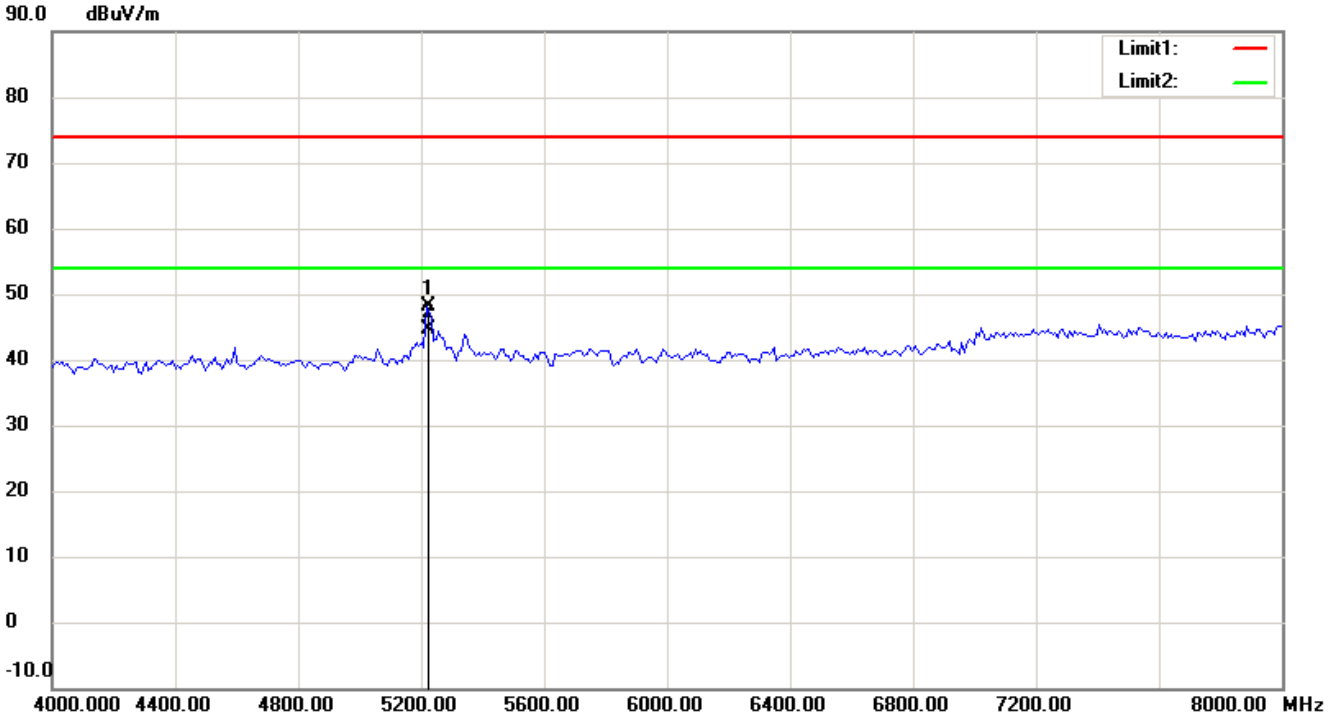

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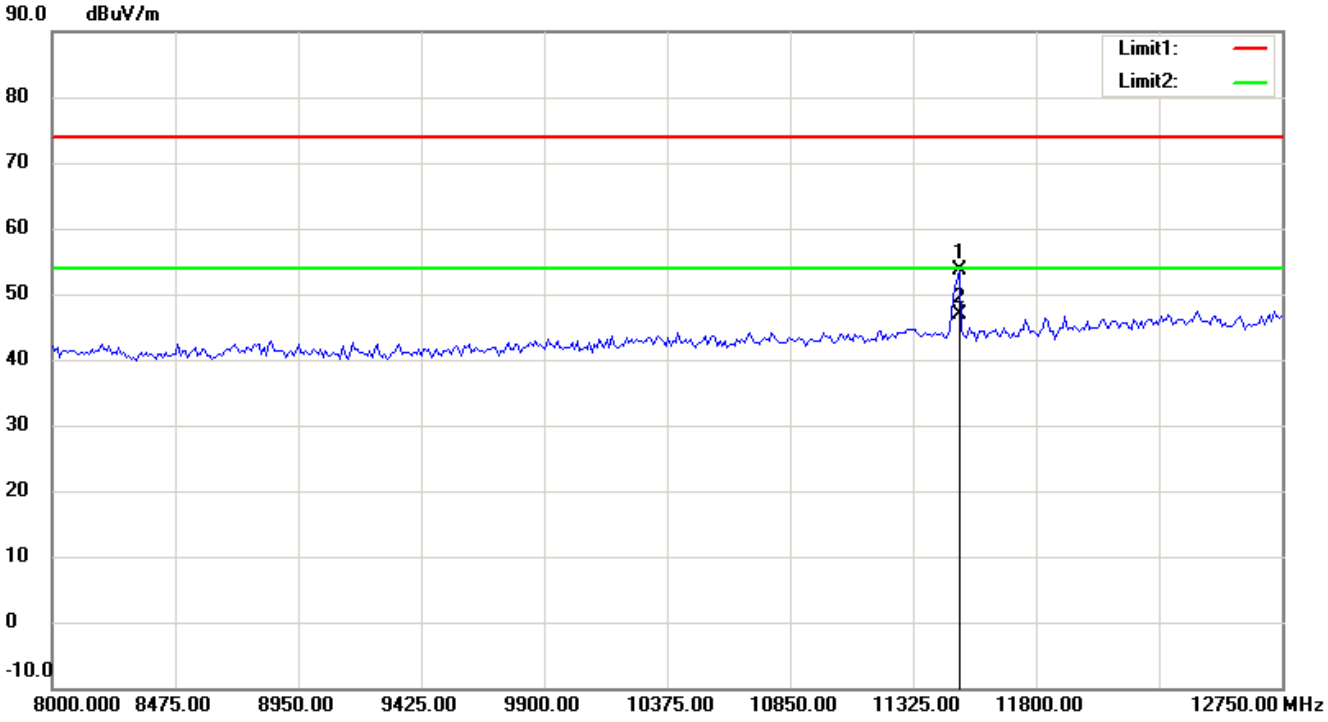

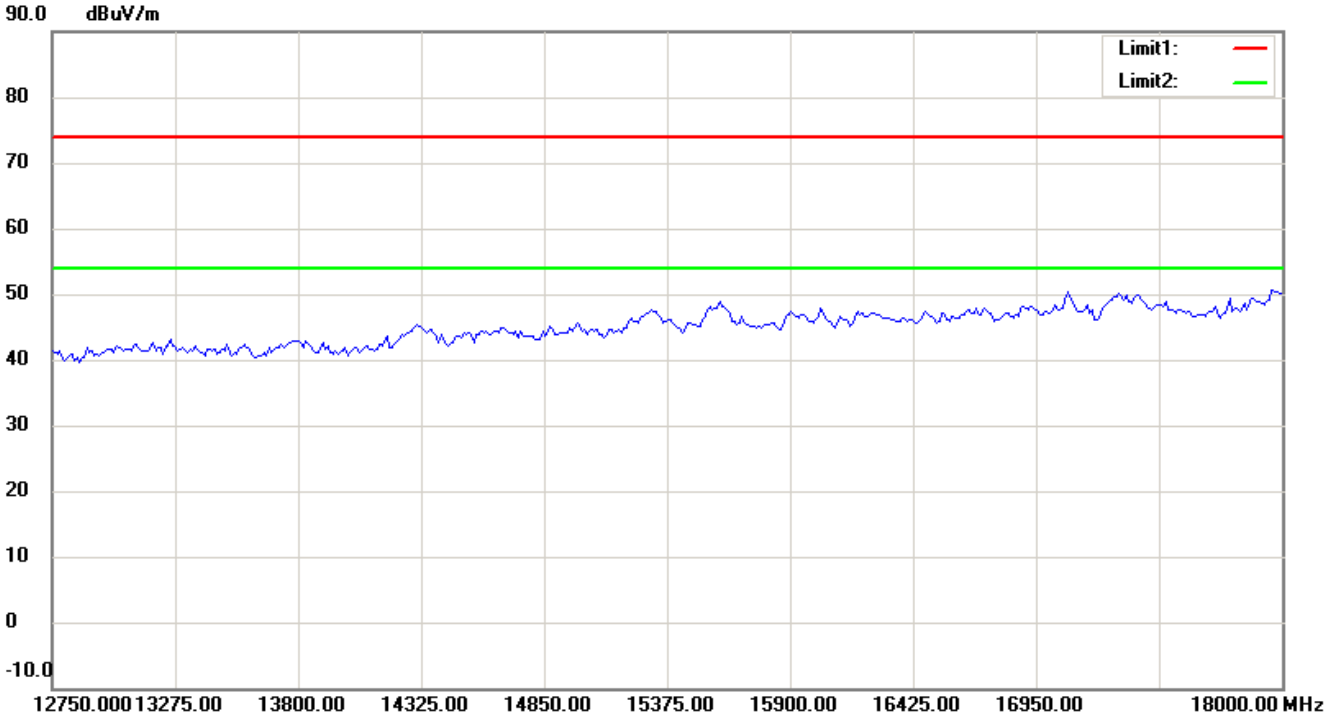

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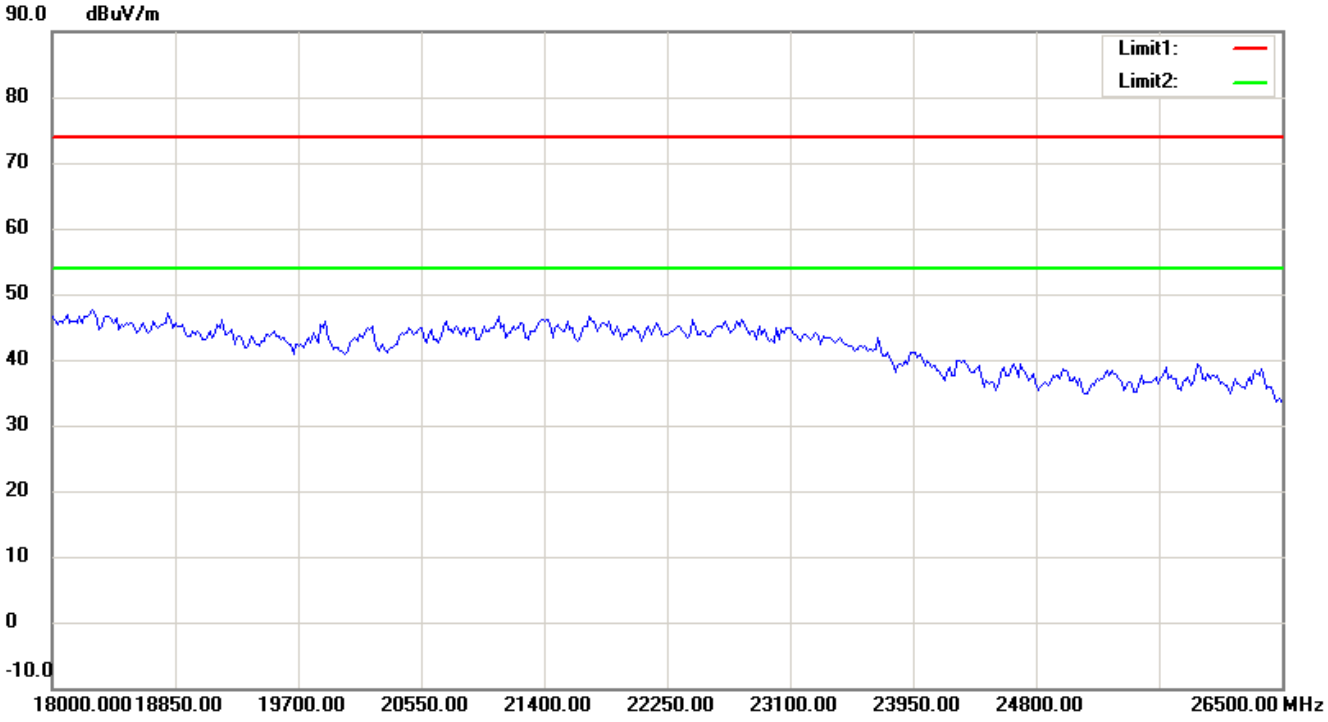

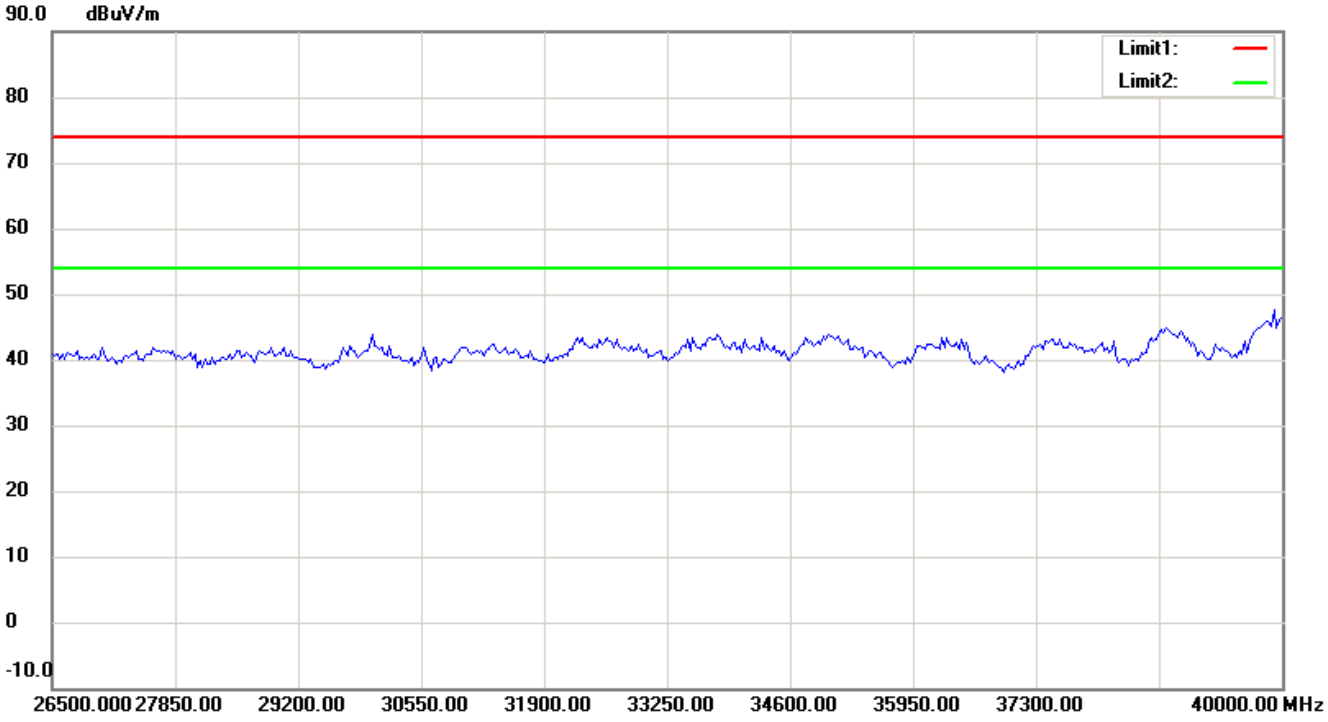

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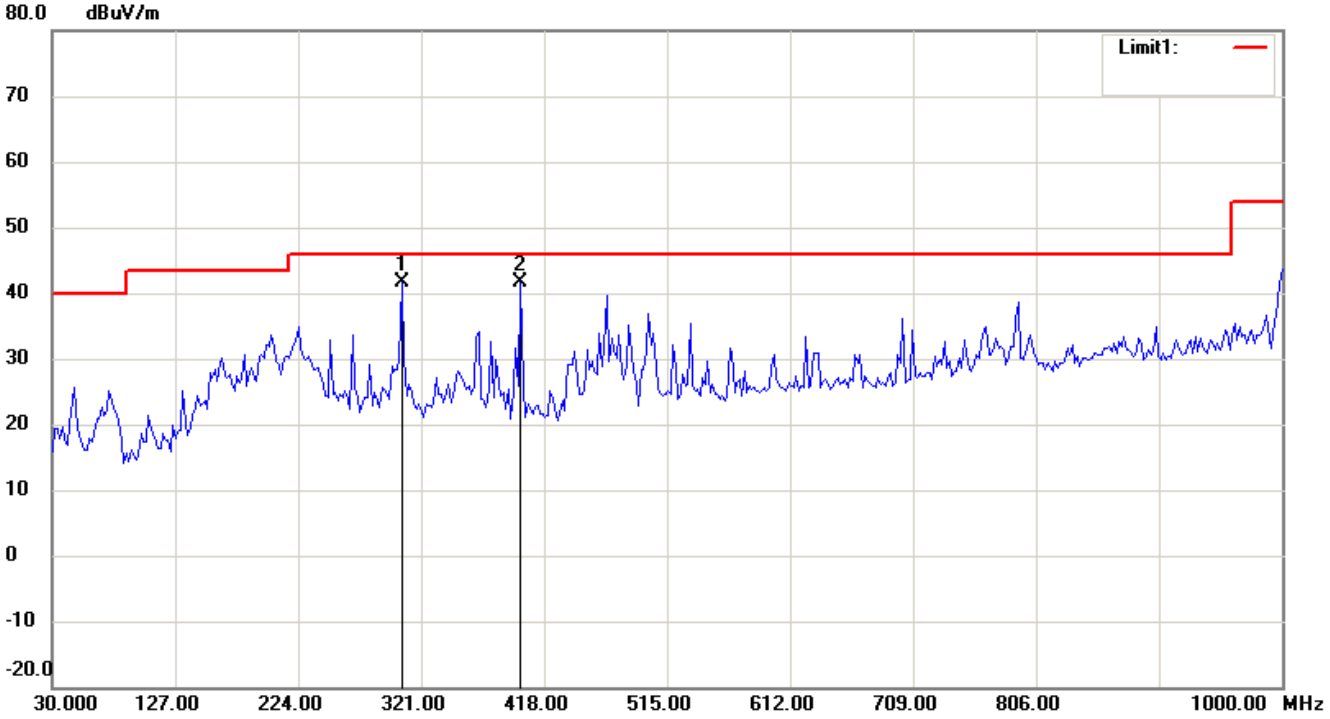
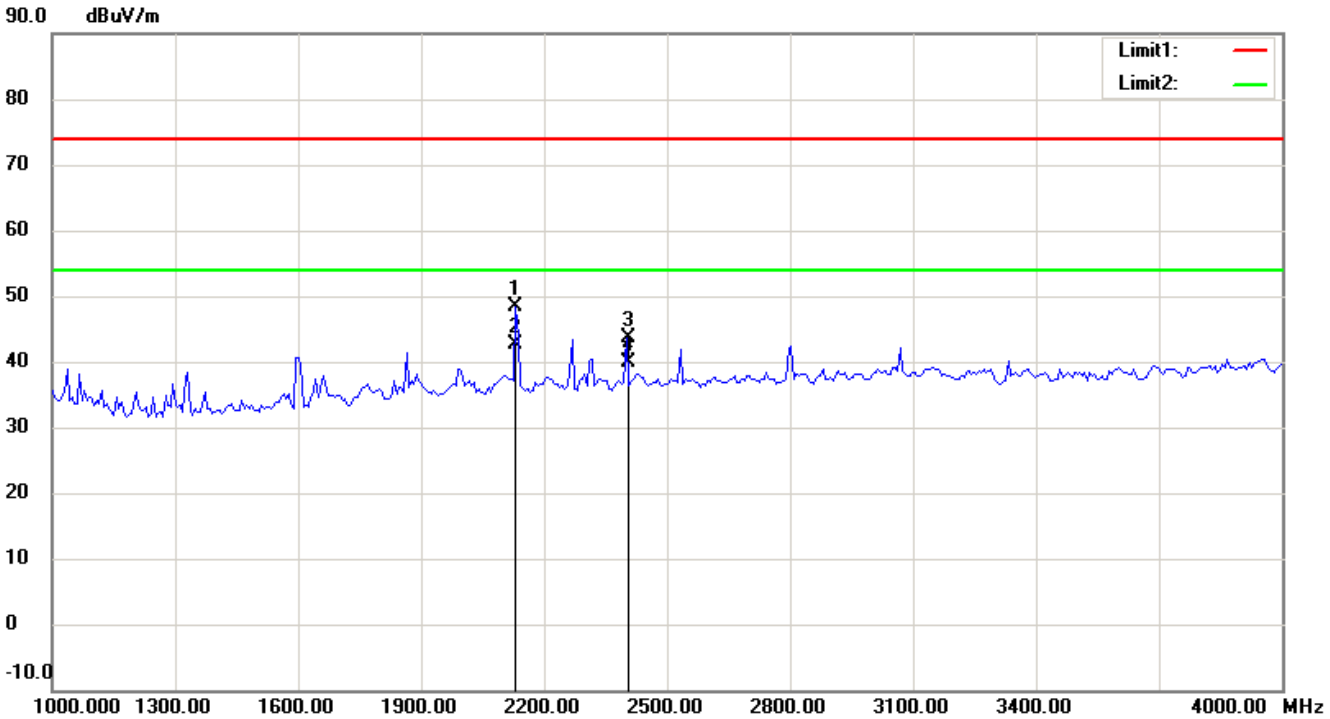
801.11n 20M CH157
Antenna Polarization H





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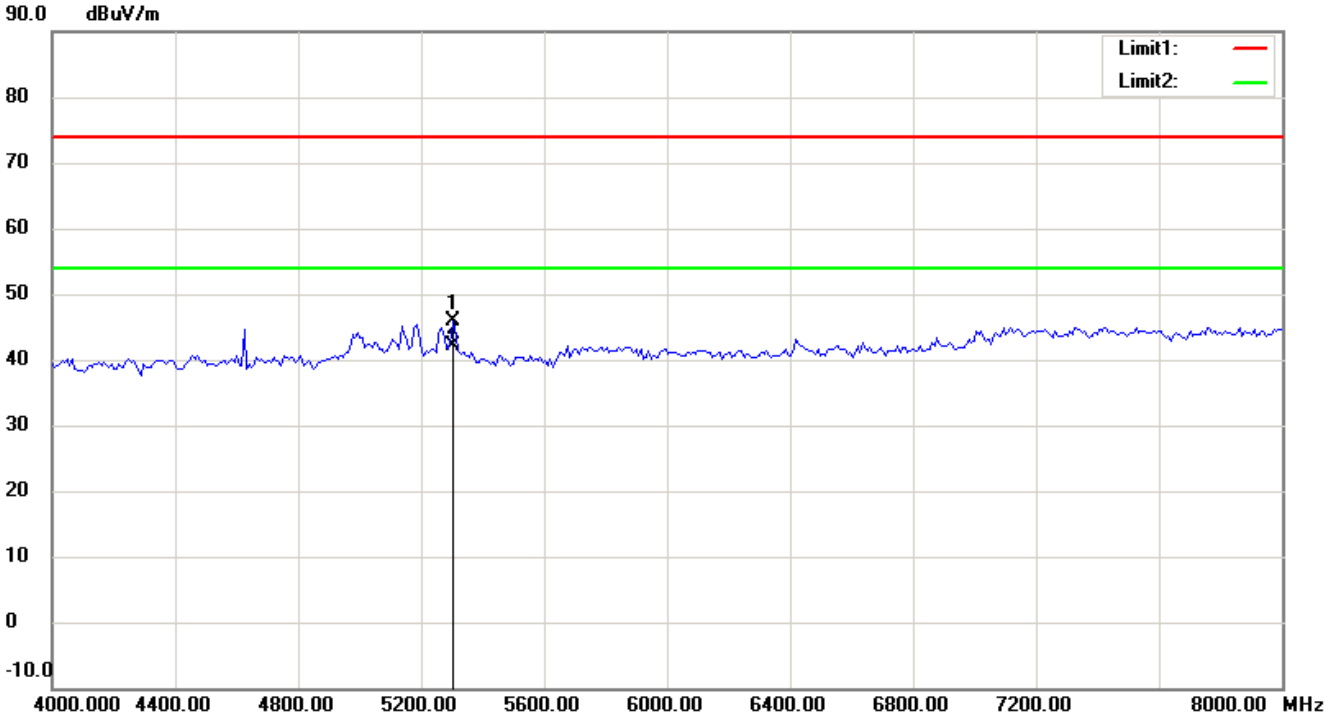

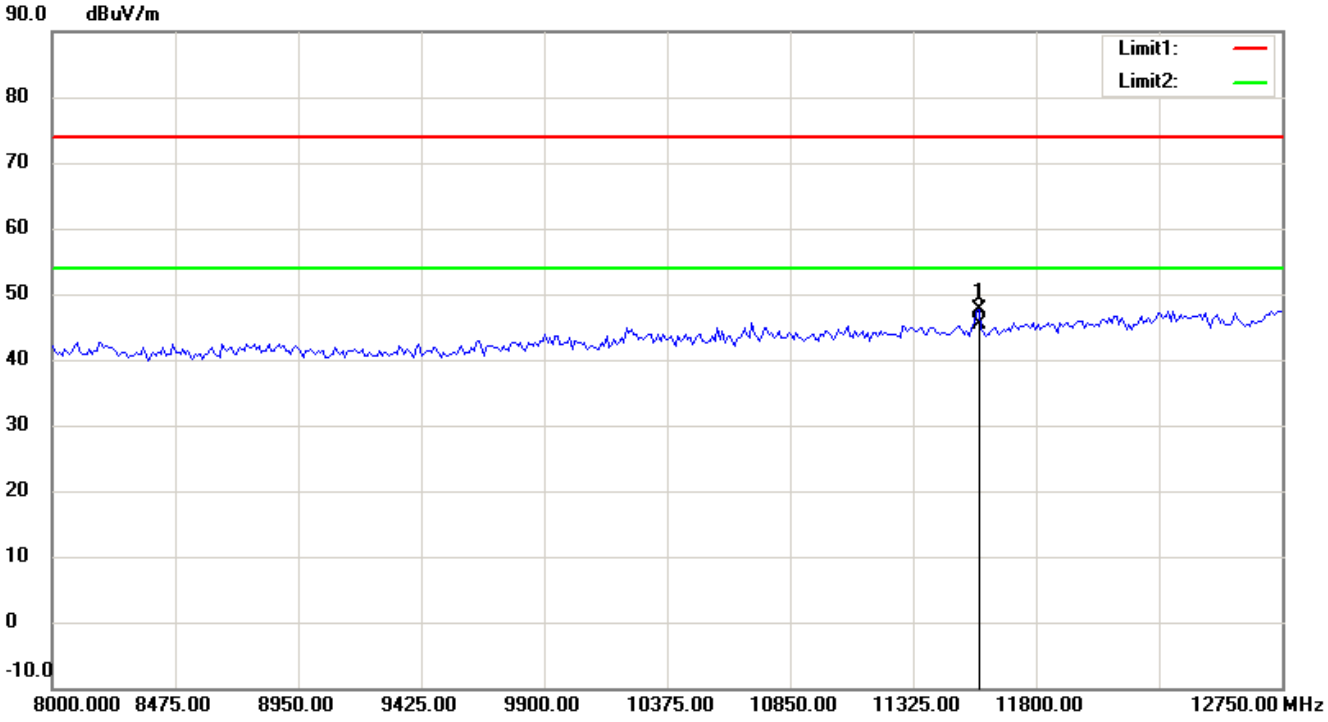

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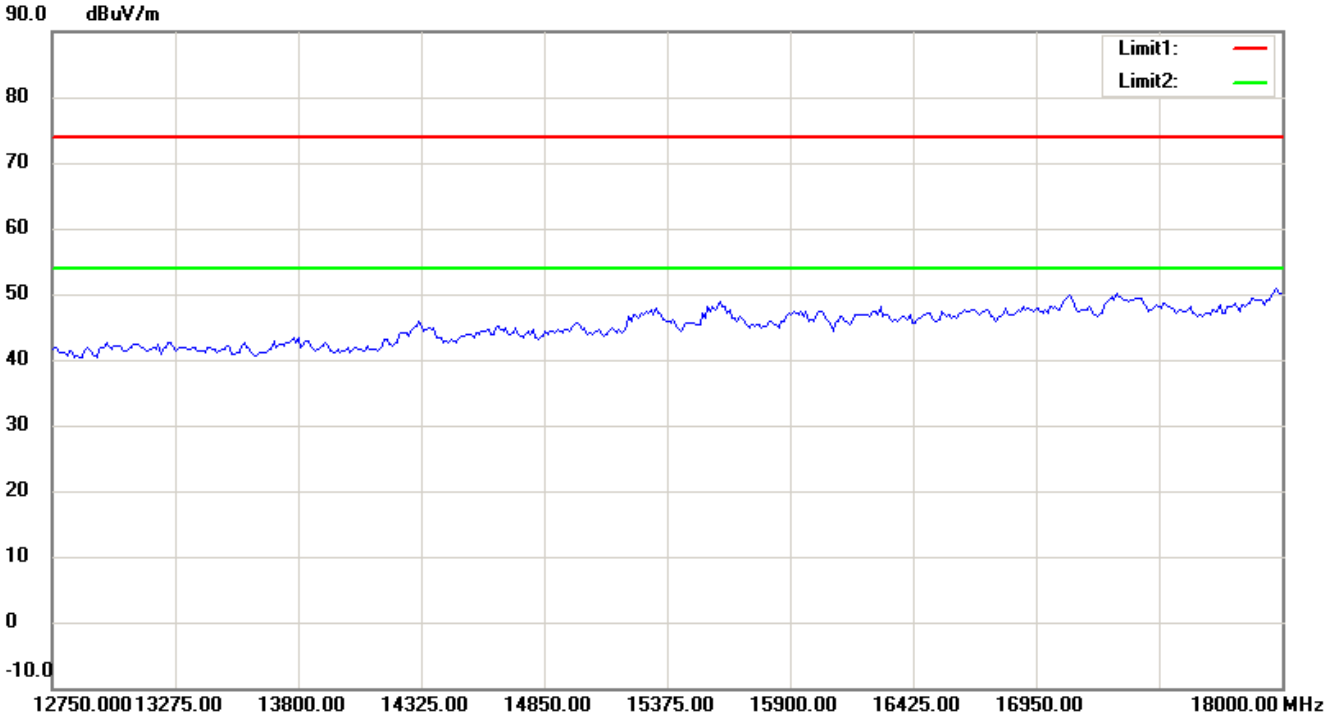

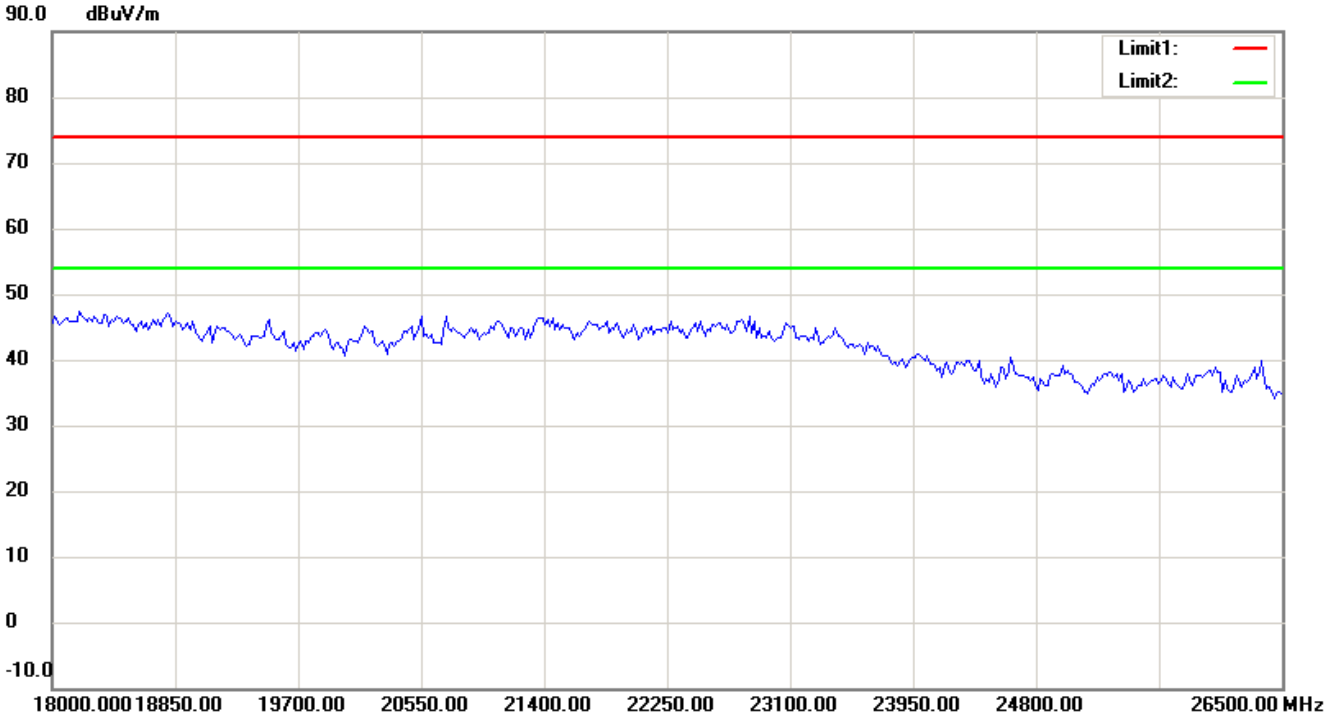

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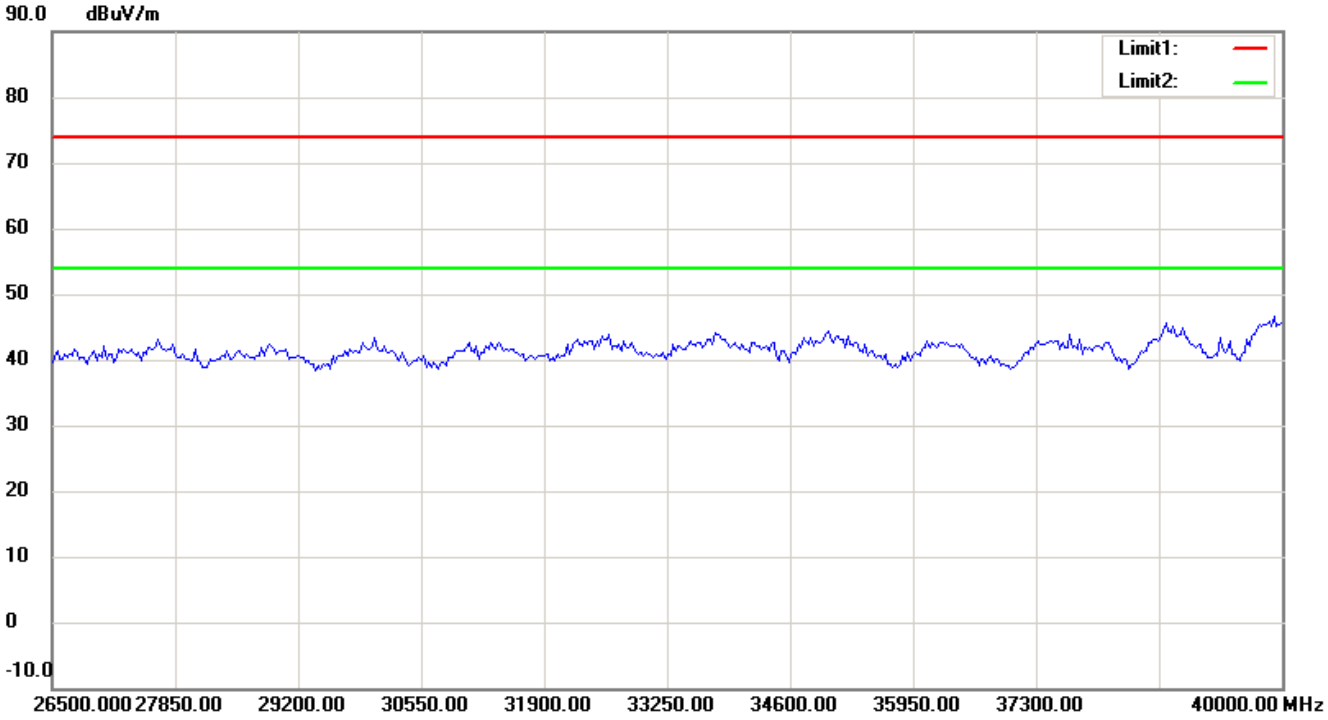
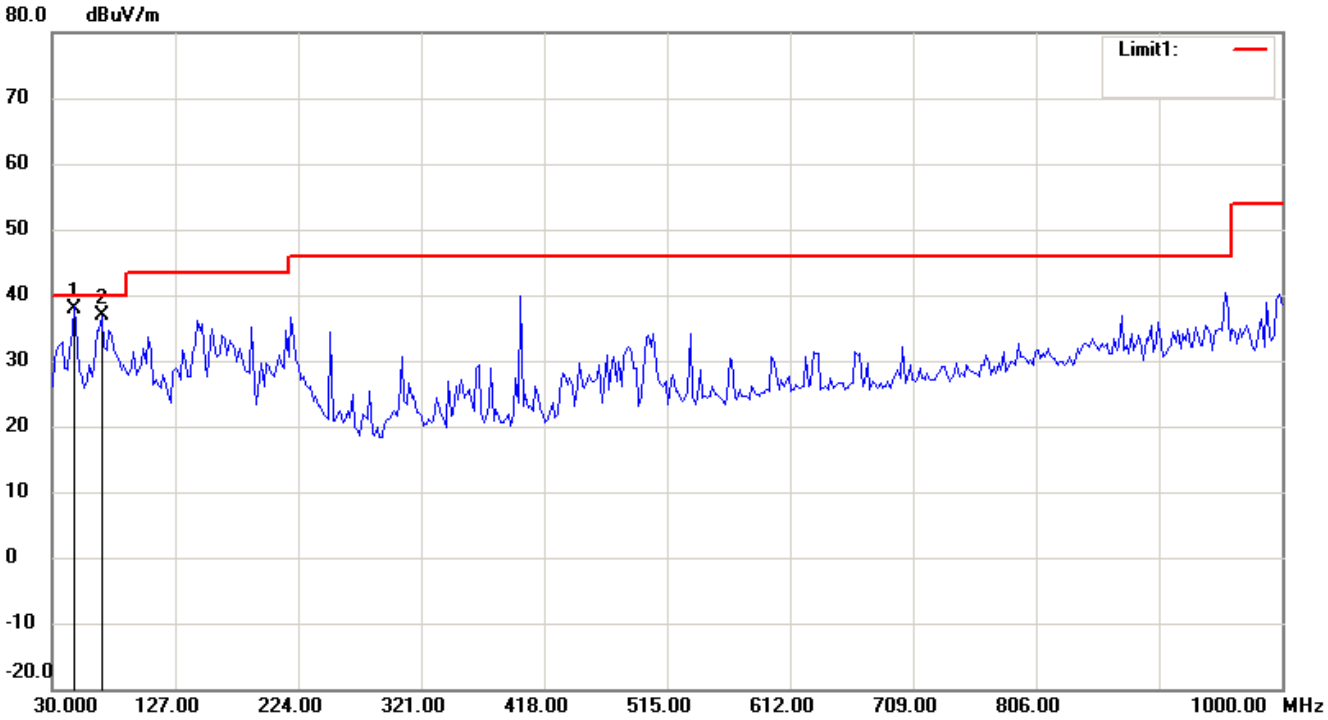


Antenna Polarization V



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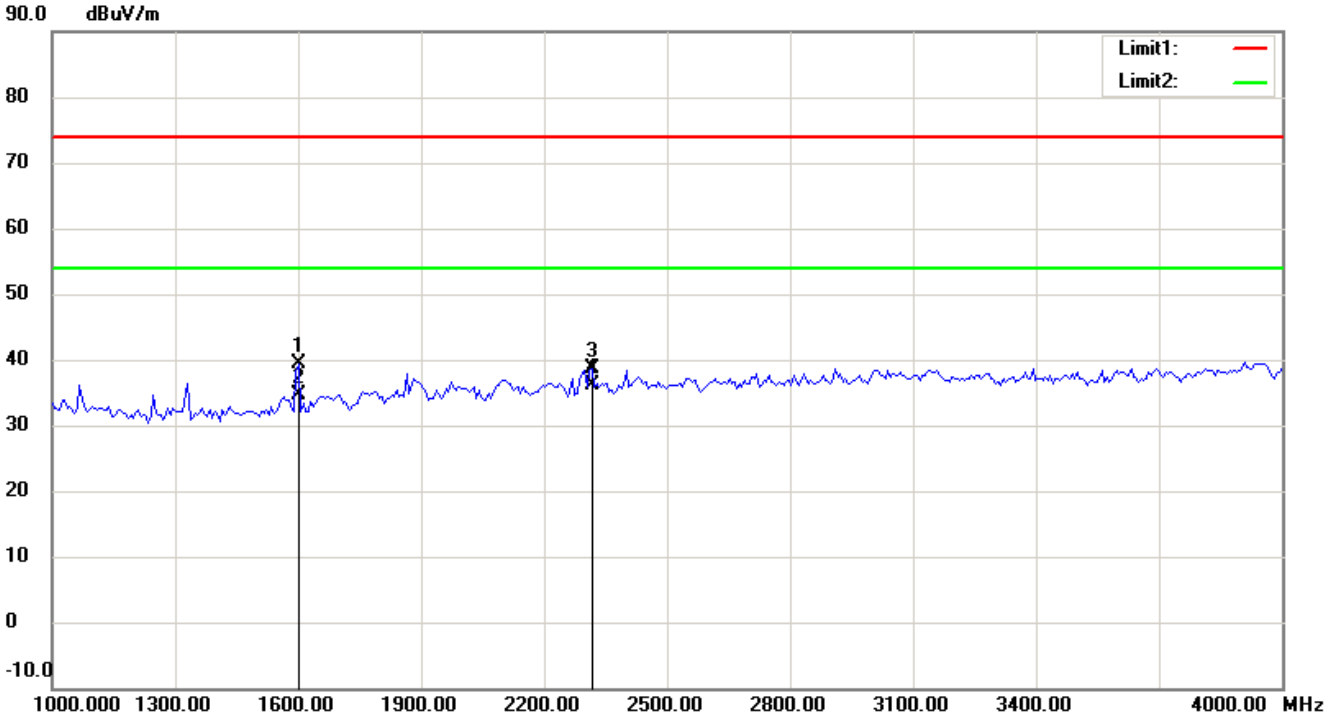

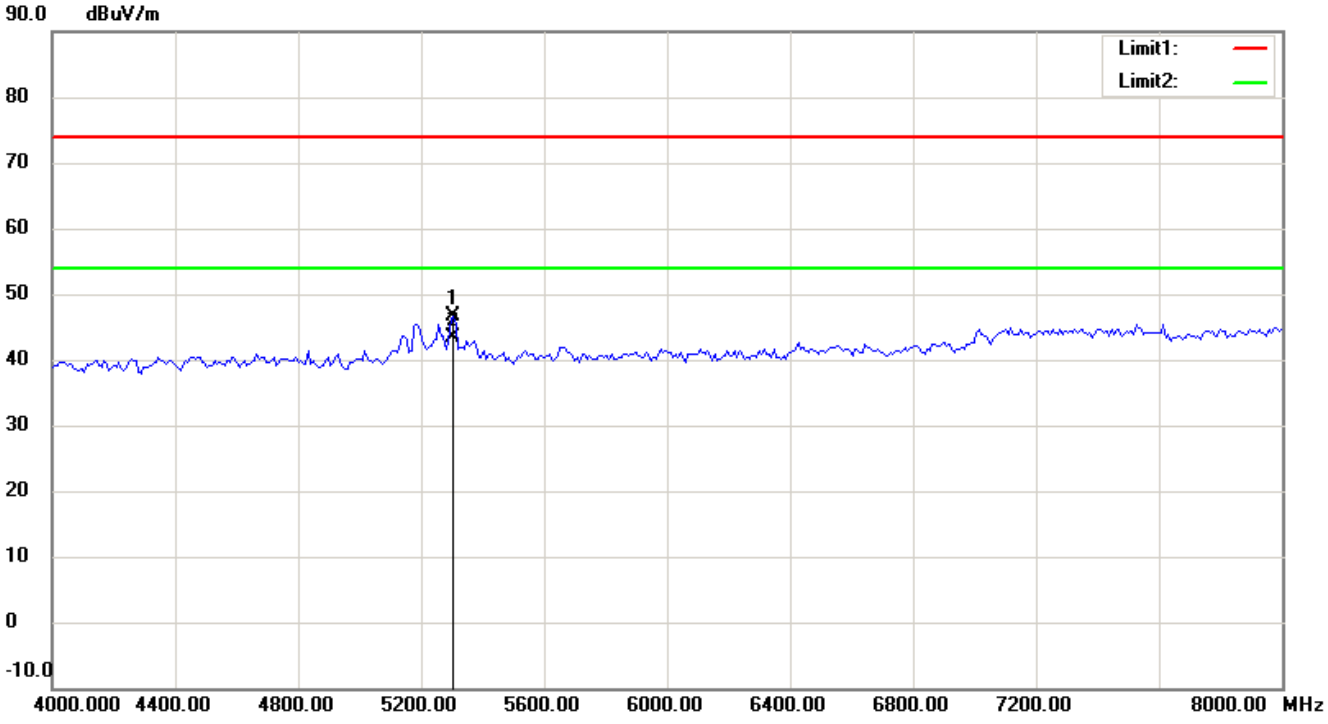

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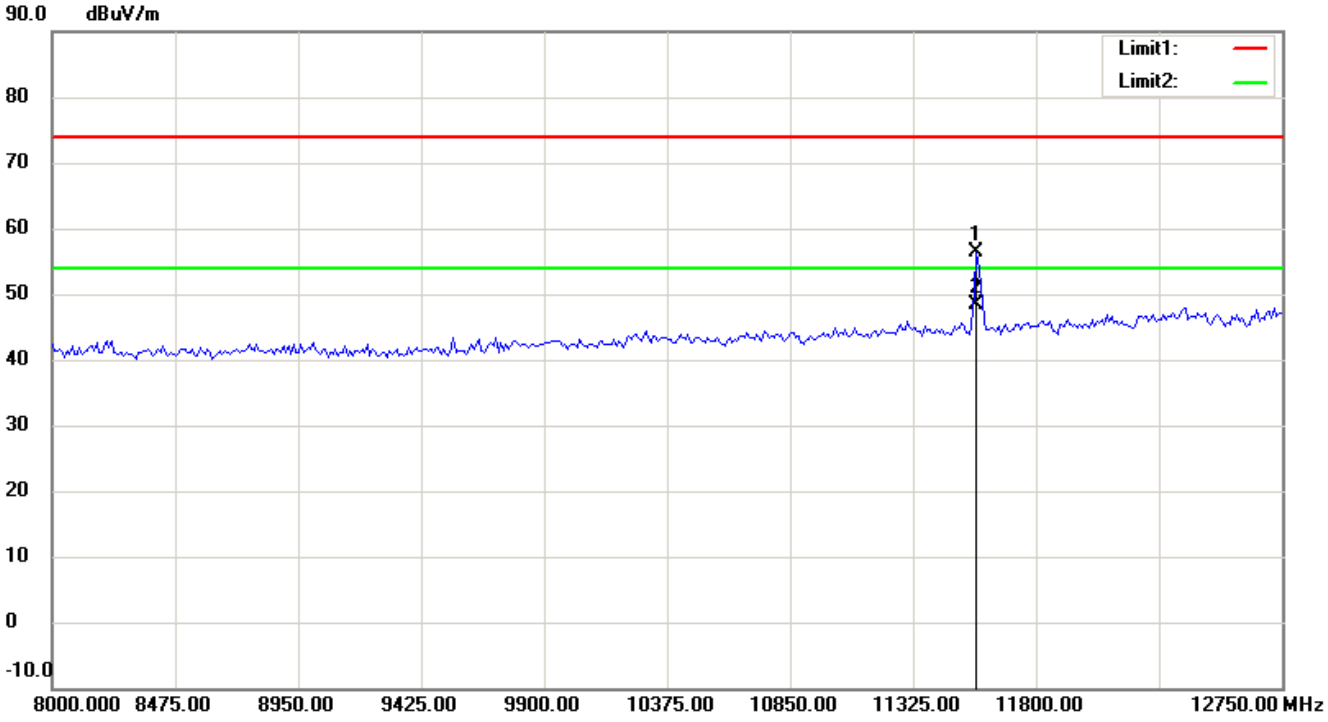
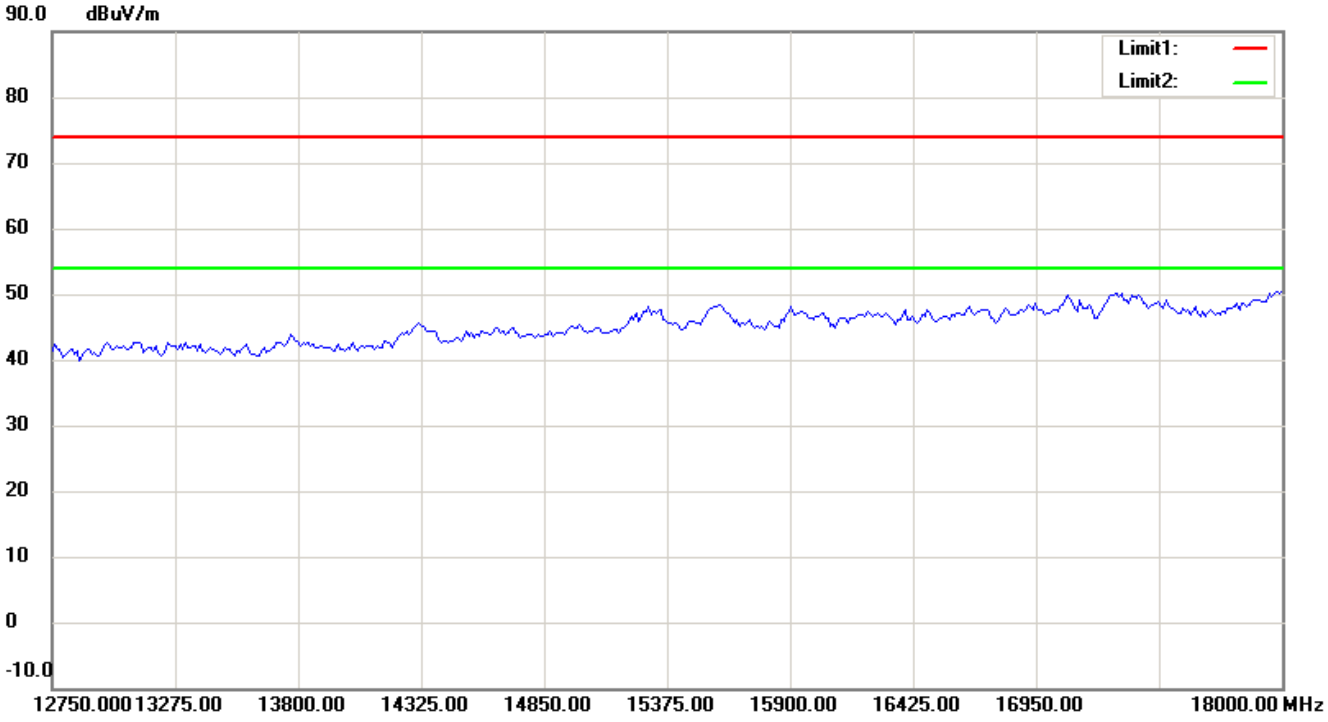
Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N

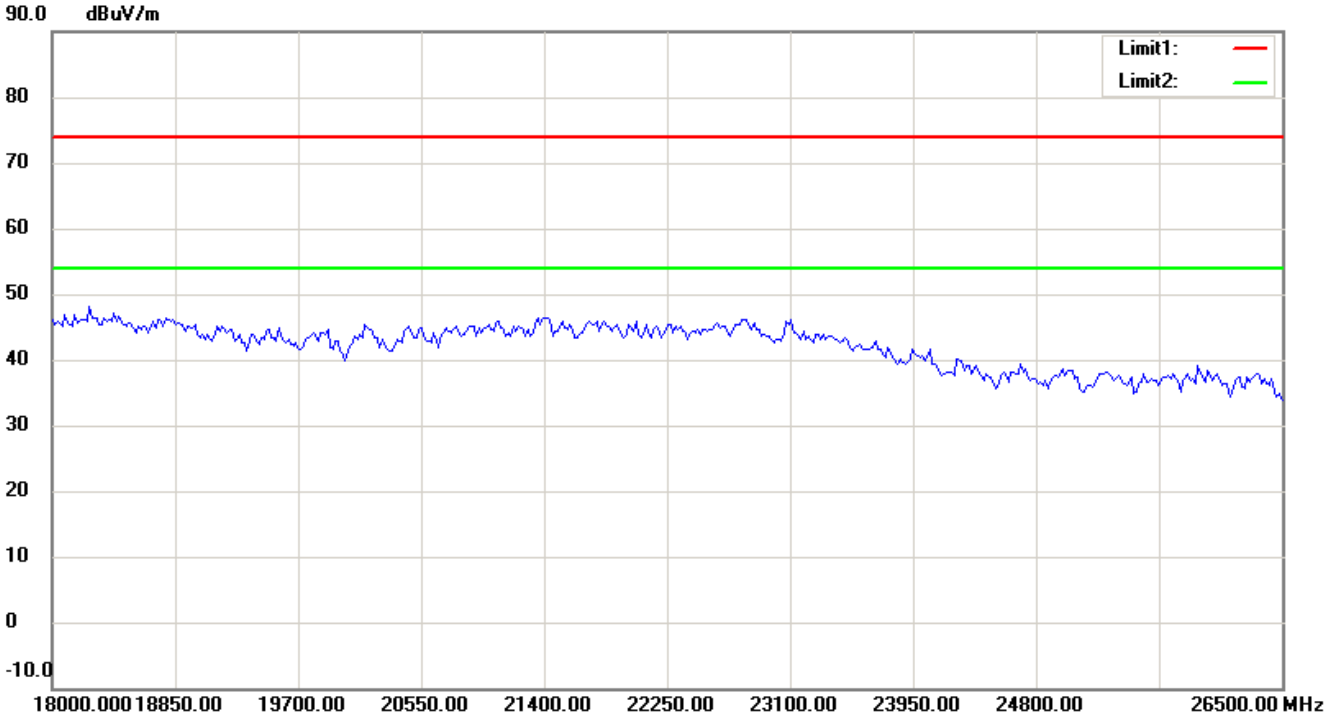


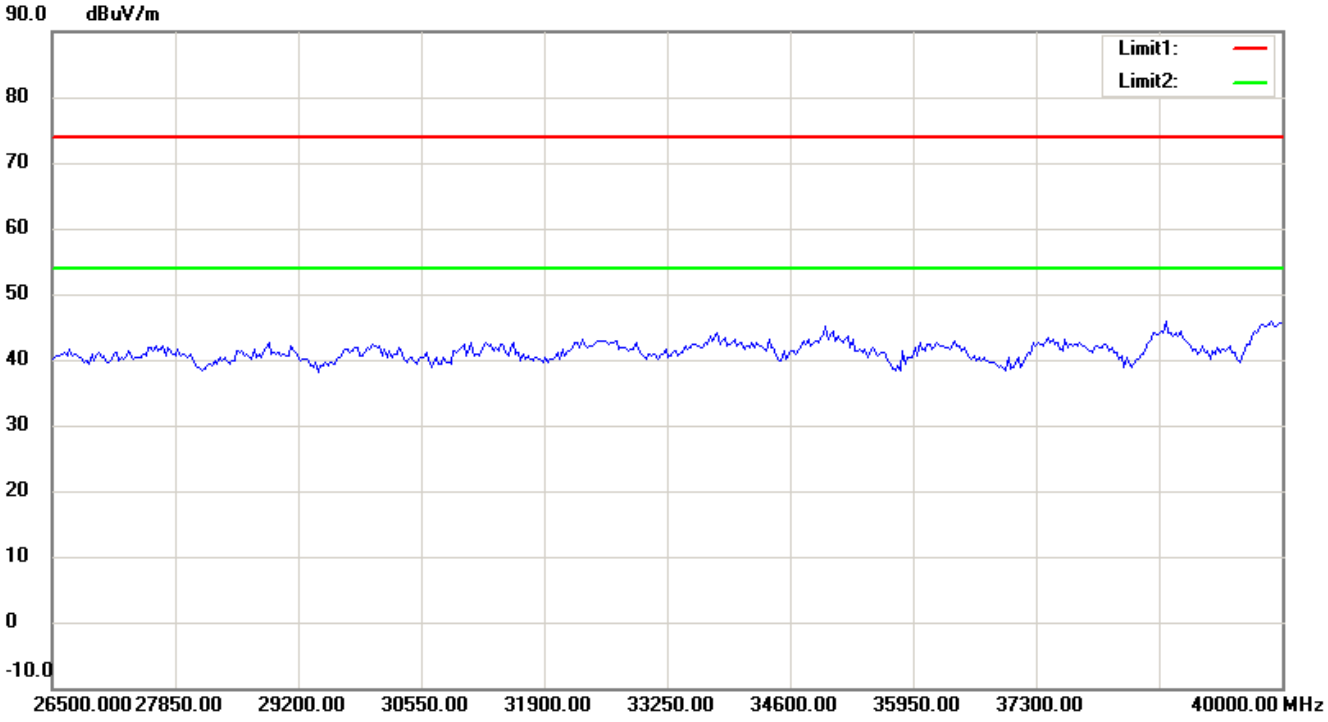


Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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: W6D21210-12823-C-1
FCC ID: ODMAM5N





Up Line: Peak Limit Line Down Line: Ave Limit Line
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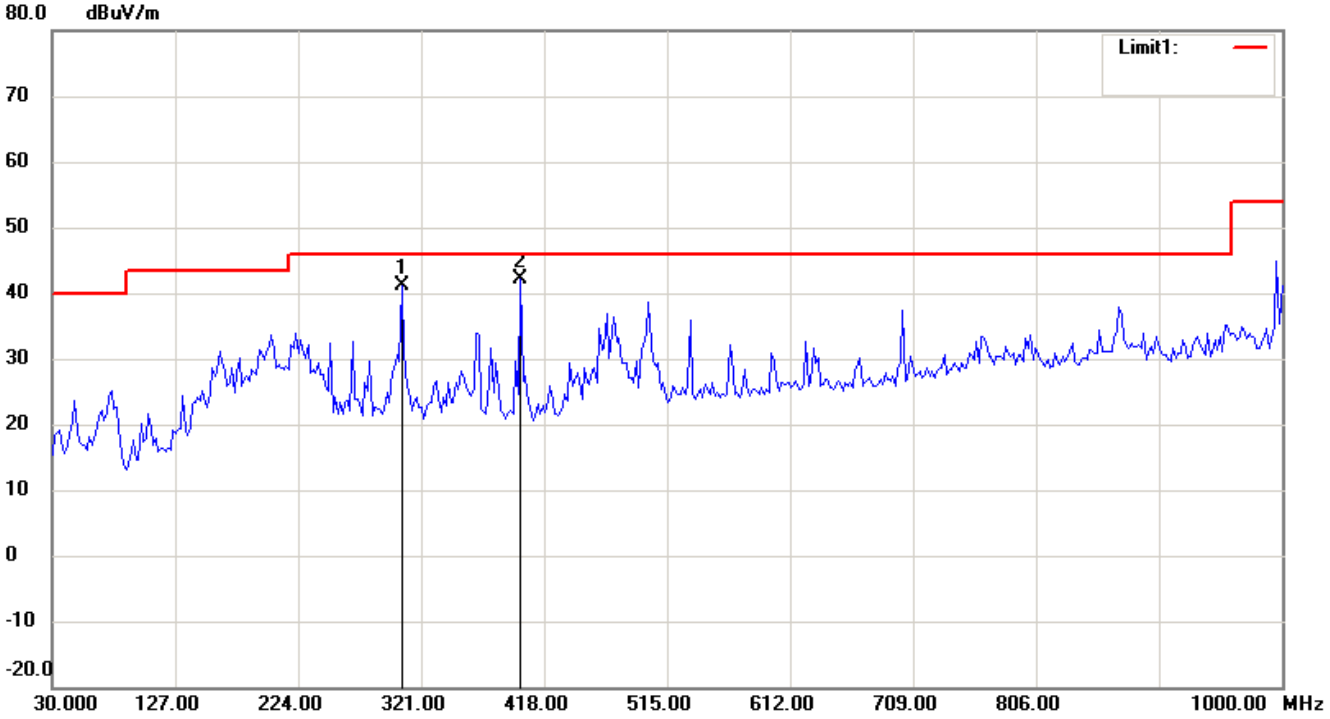
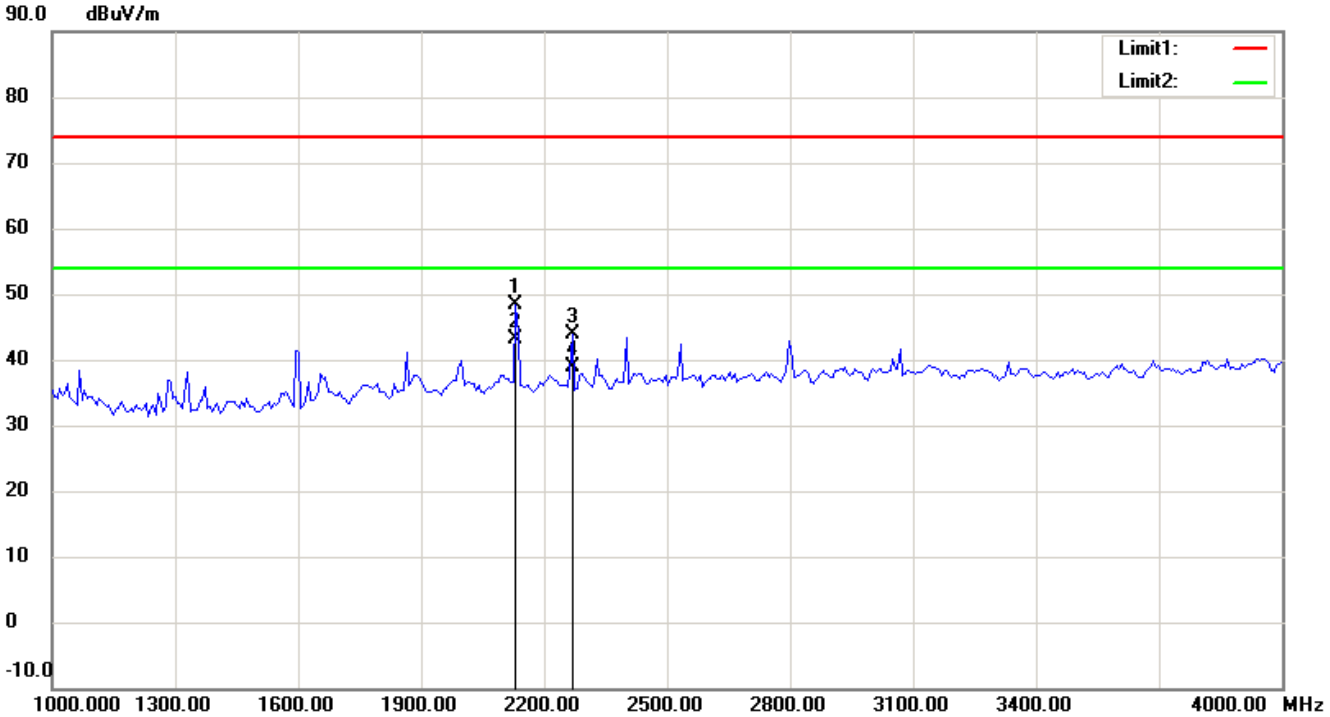
Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N

801.11n 20M CH165
Antenna Polarization H





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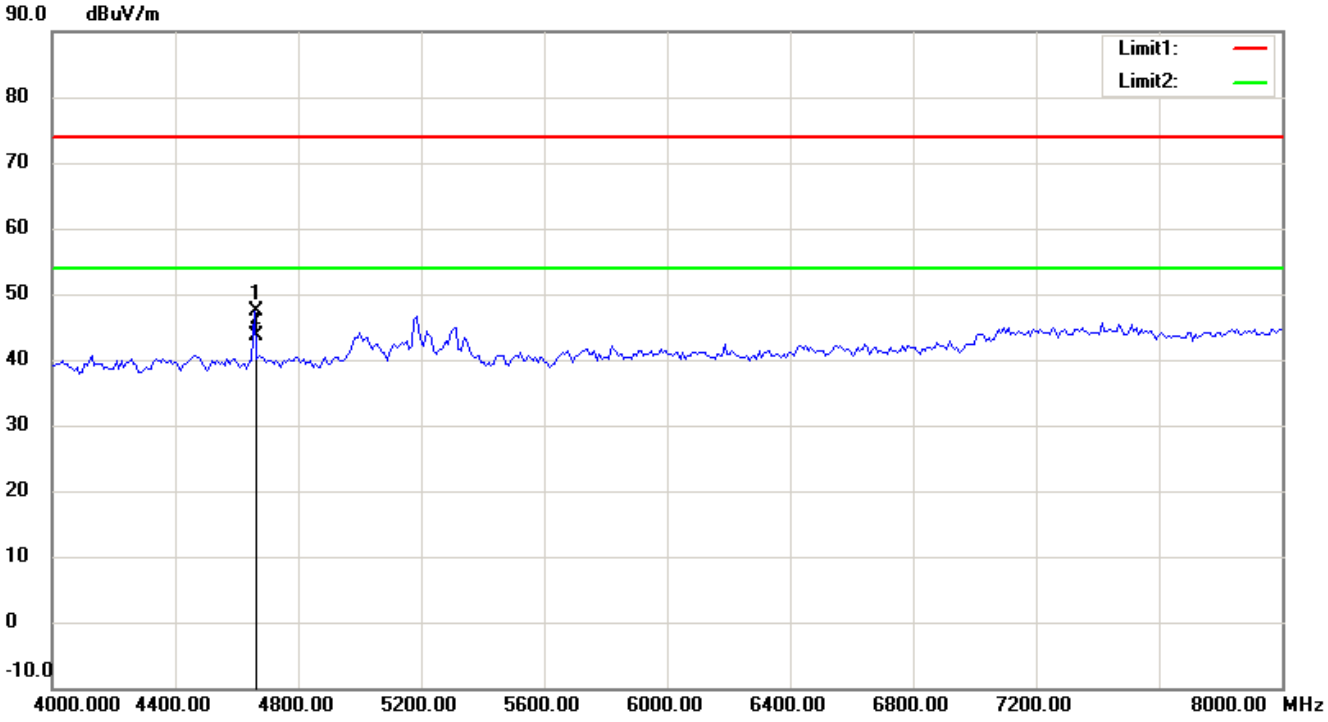
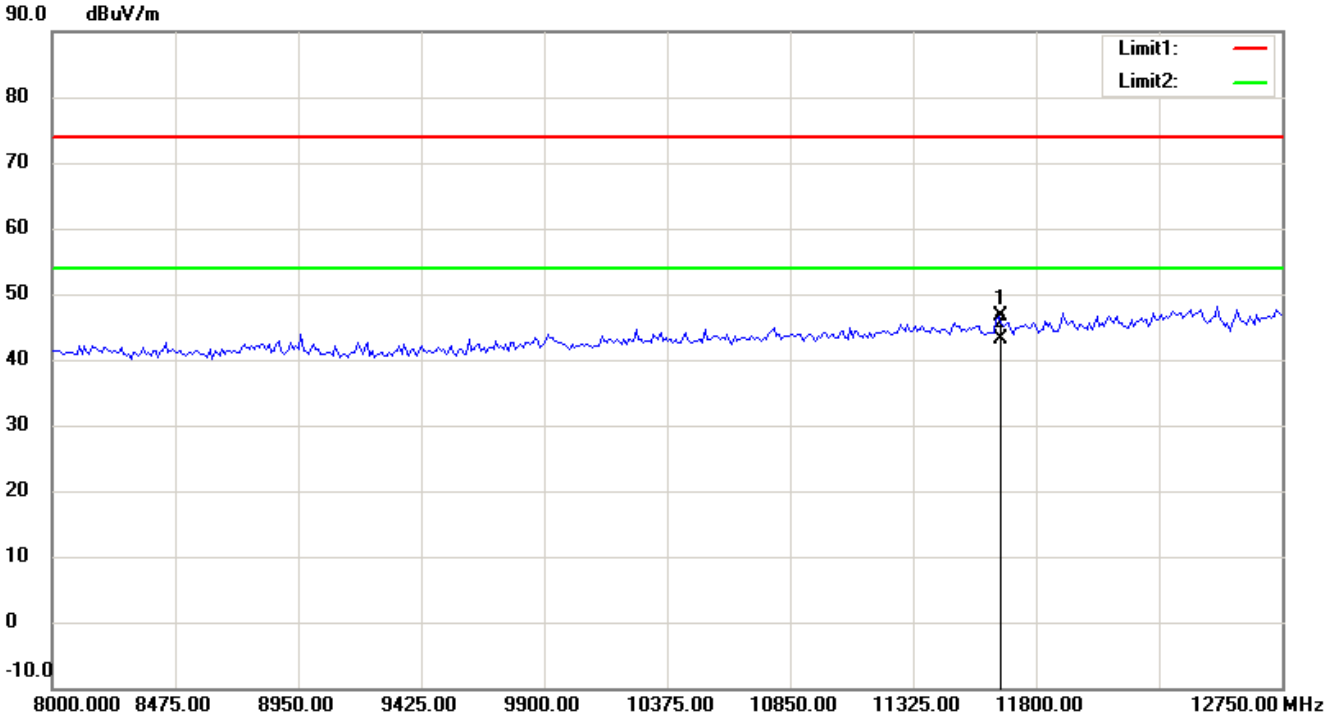
Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N





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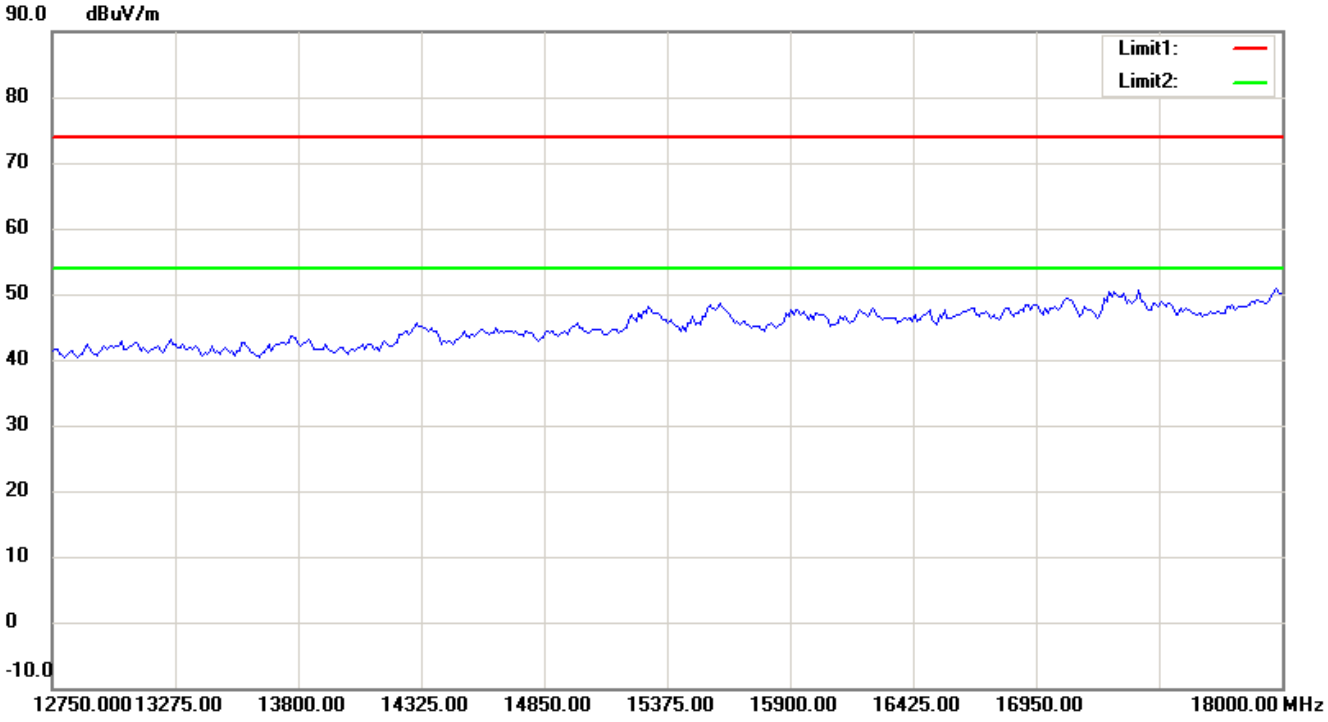
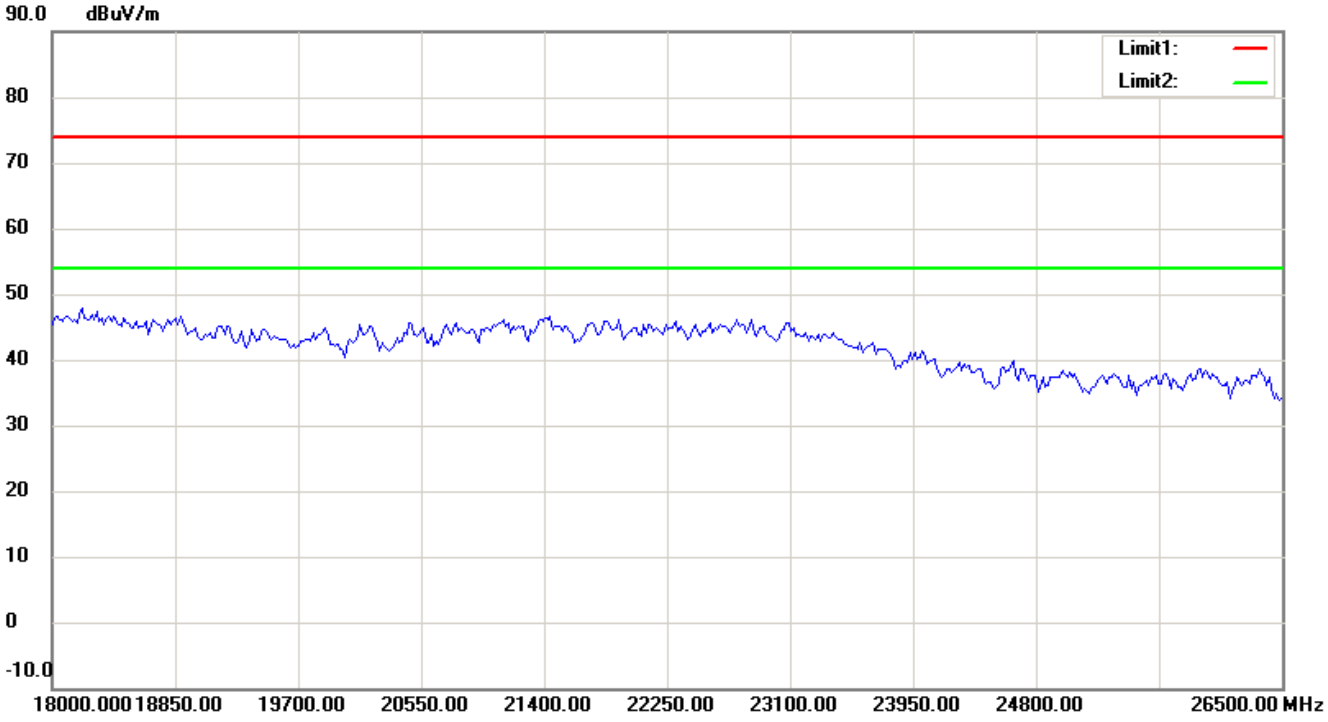
FCC ID: ODMAM5N





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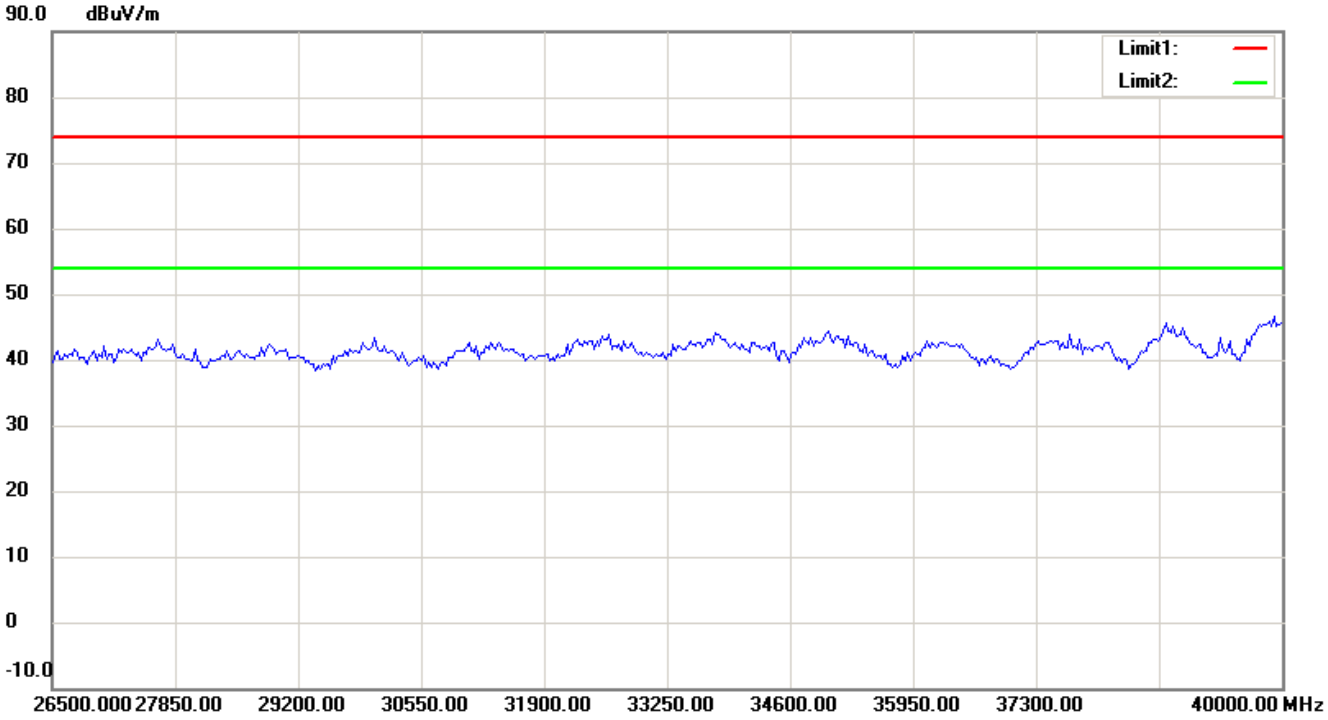
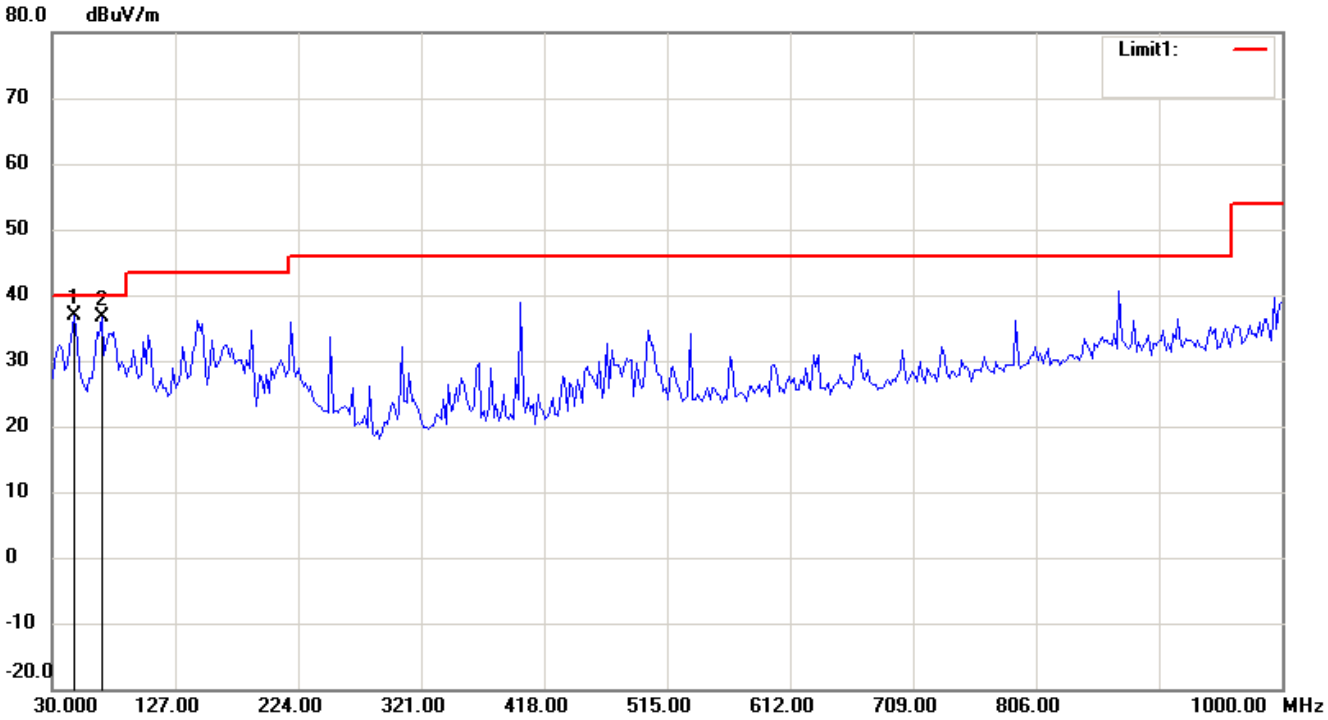
FCC ID: ODMAM5N



Antenna Polarization V



Up Line: Peak Limit Line Down Line: Ave Limit Line
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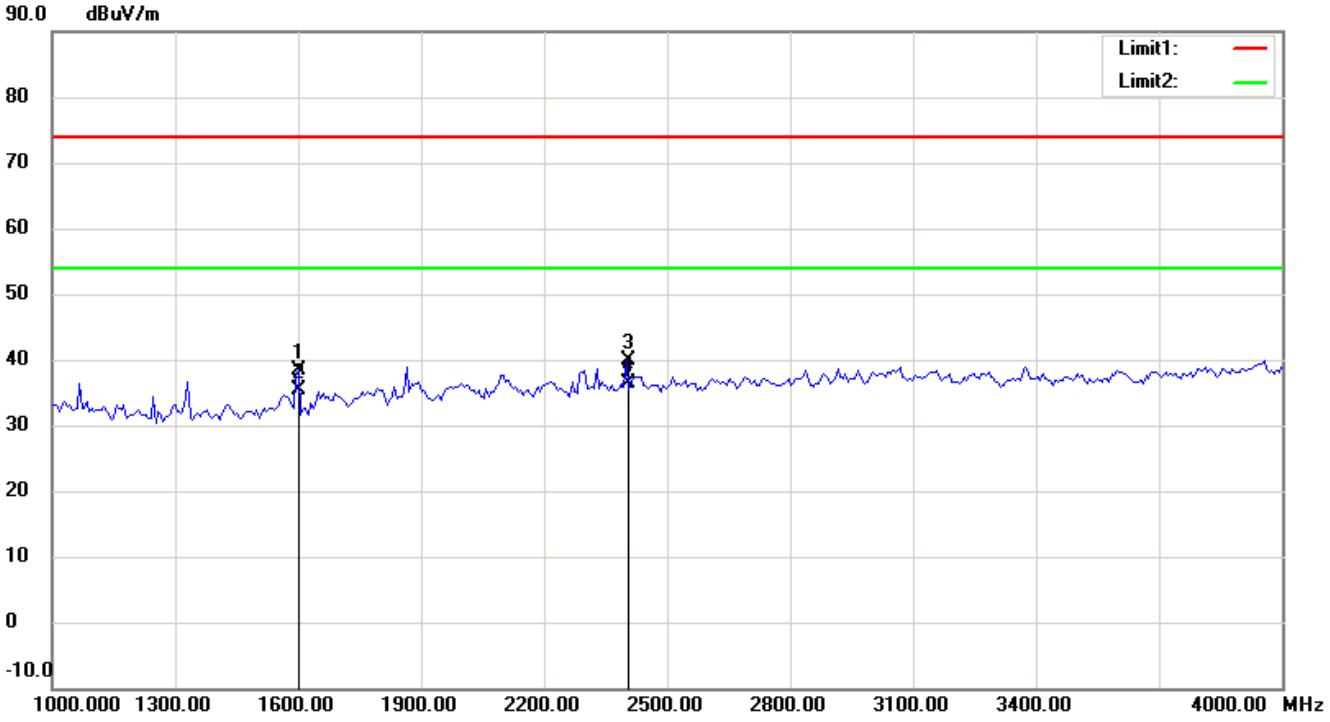
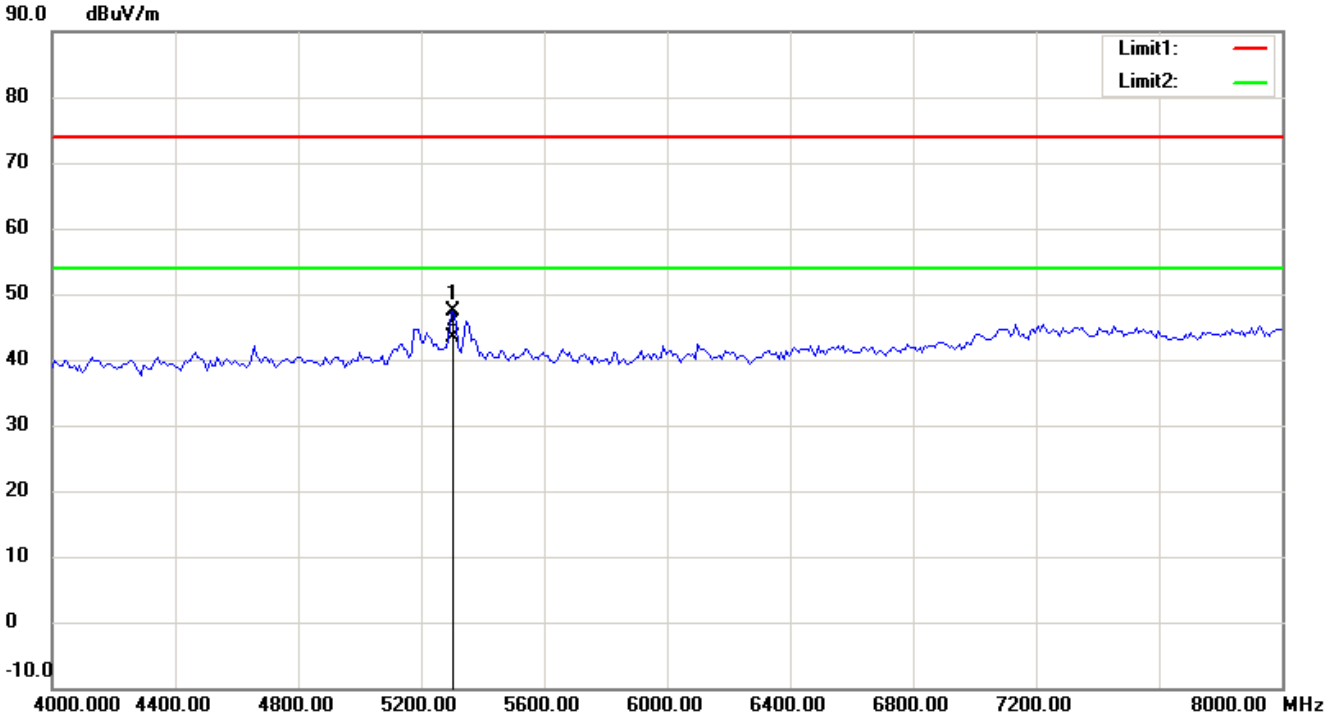
Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N





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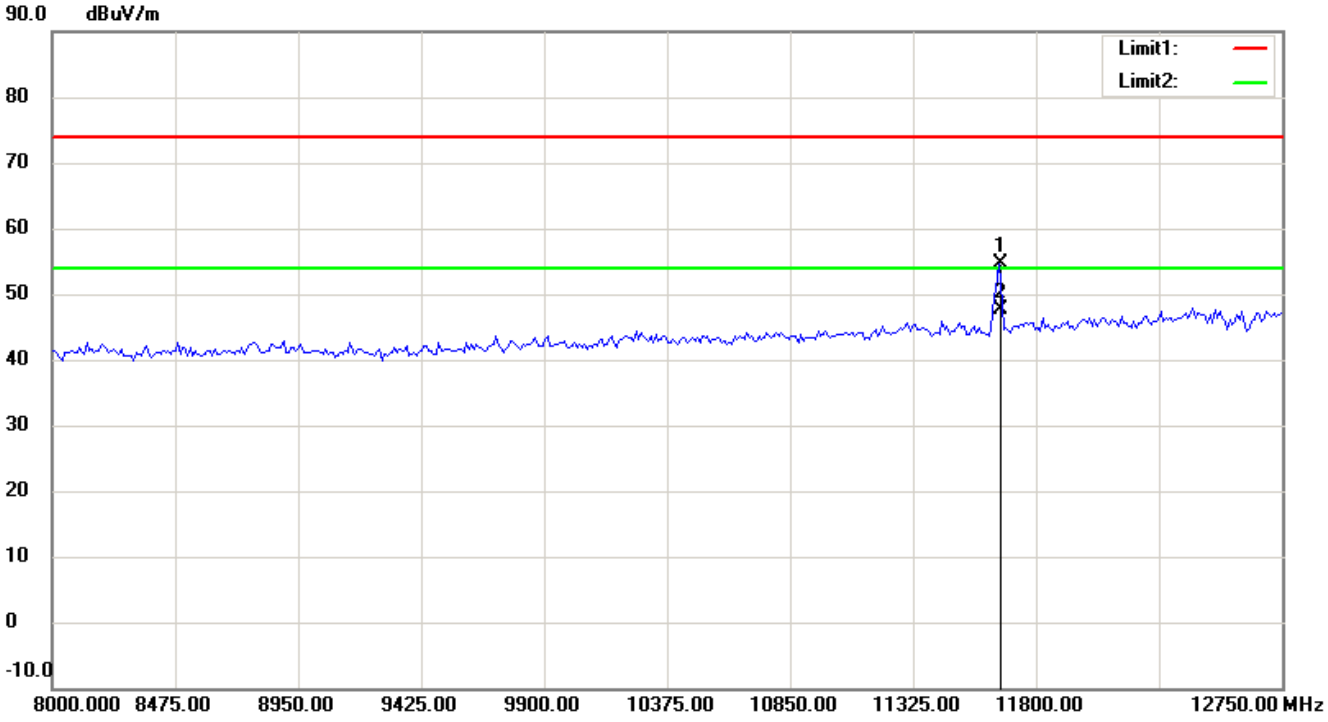
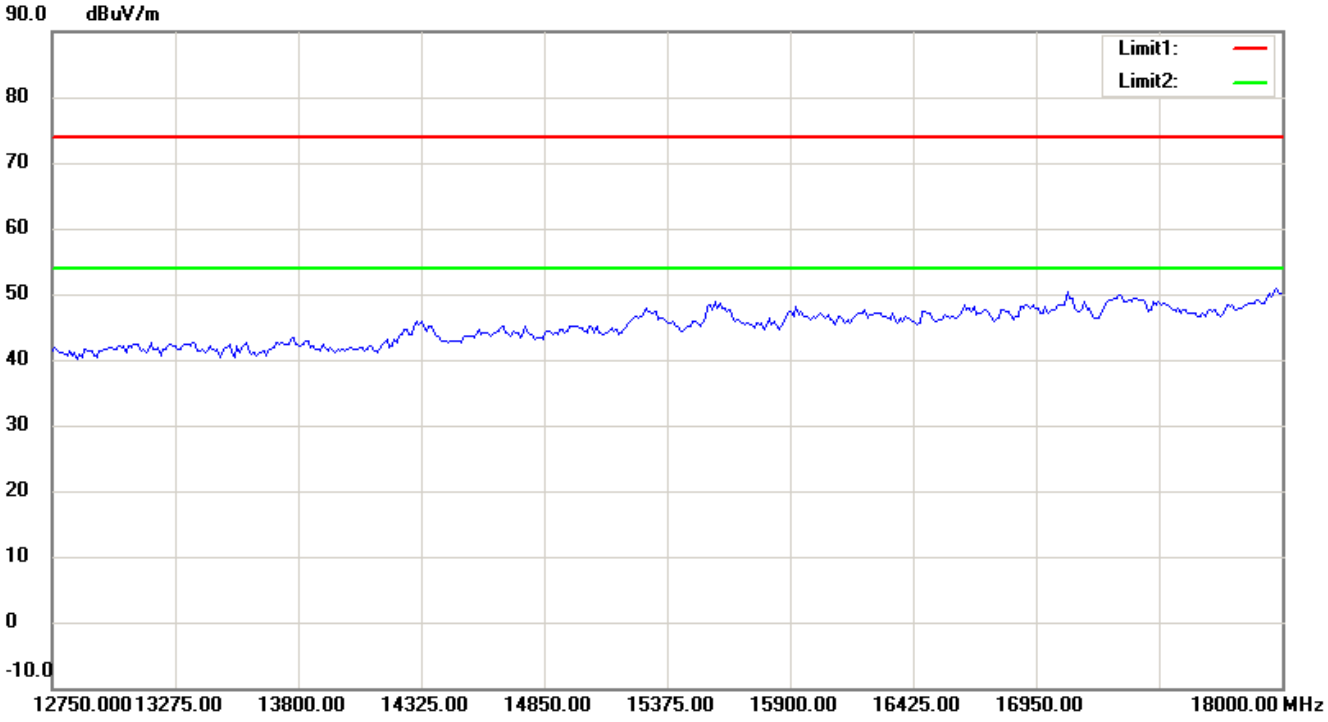
FCC ID: ODMAM5N





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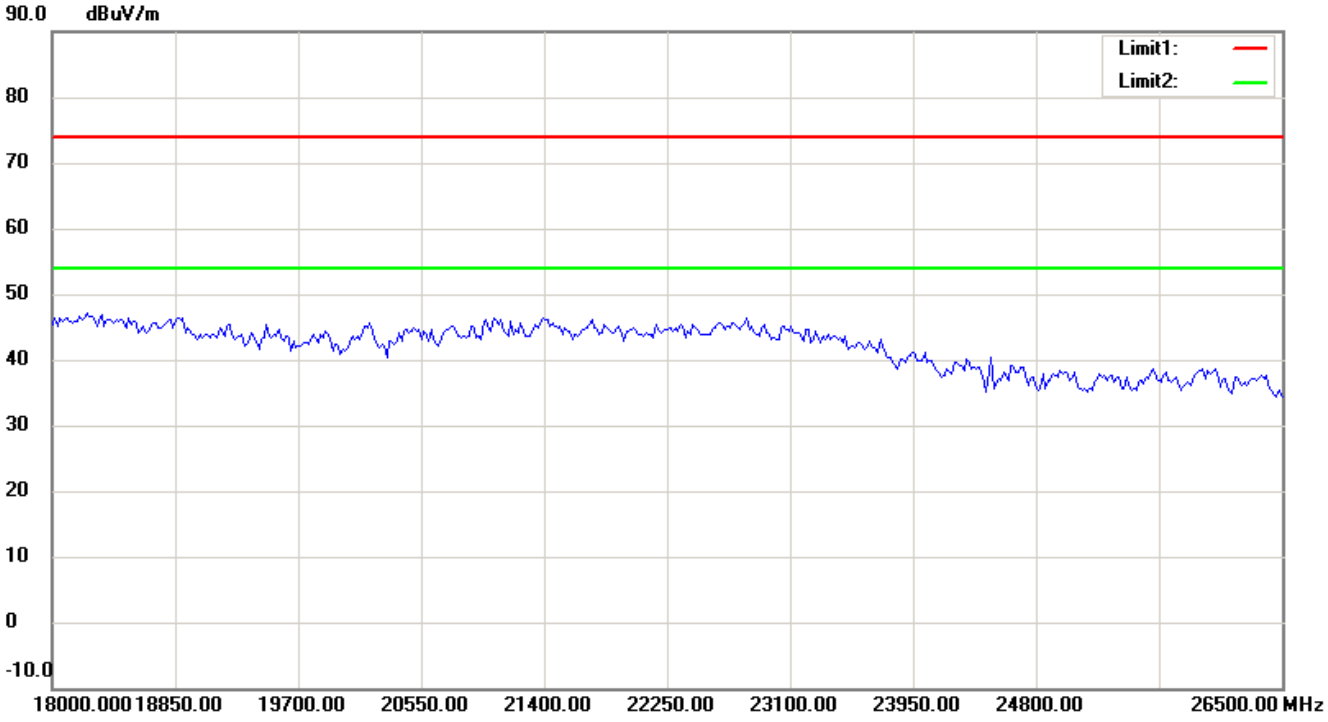
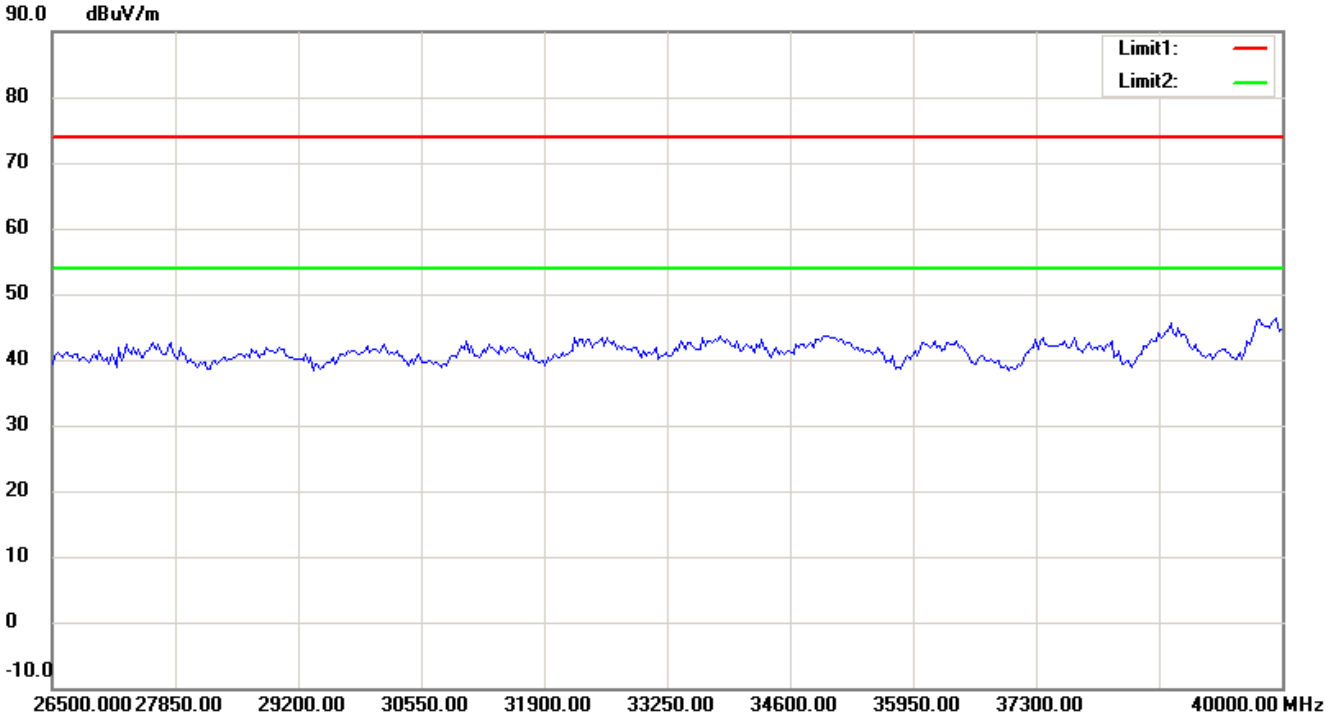
FCC ID: ODMAM5N





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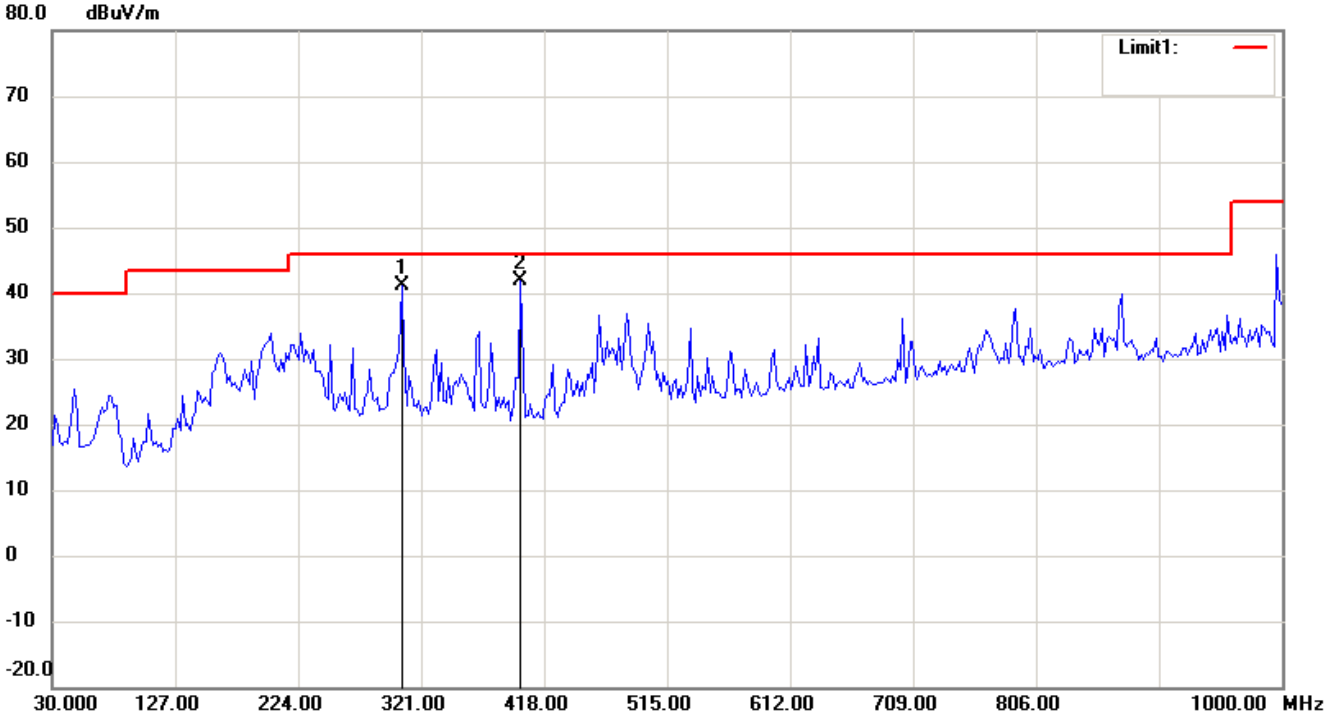
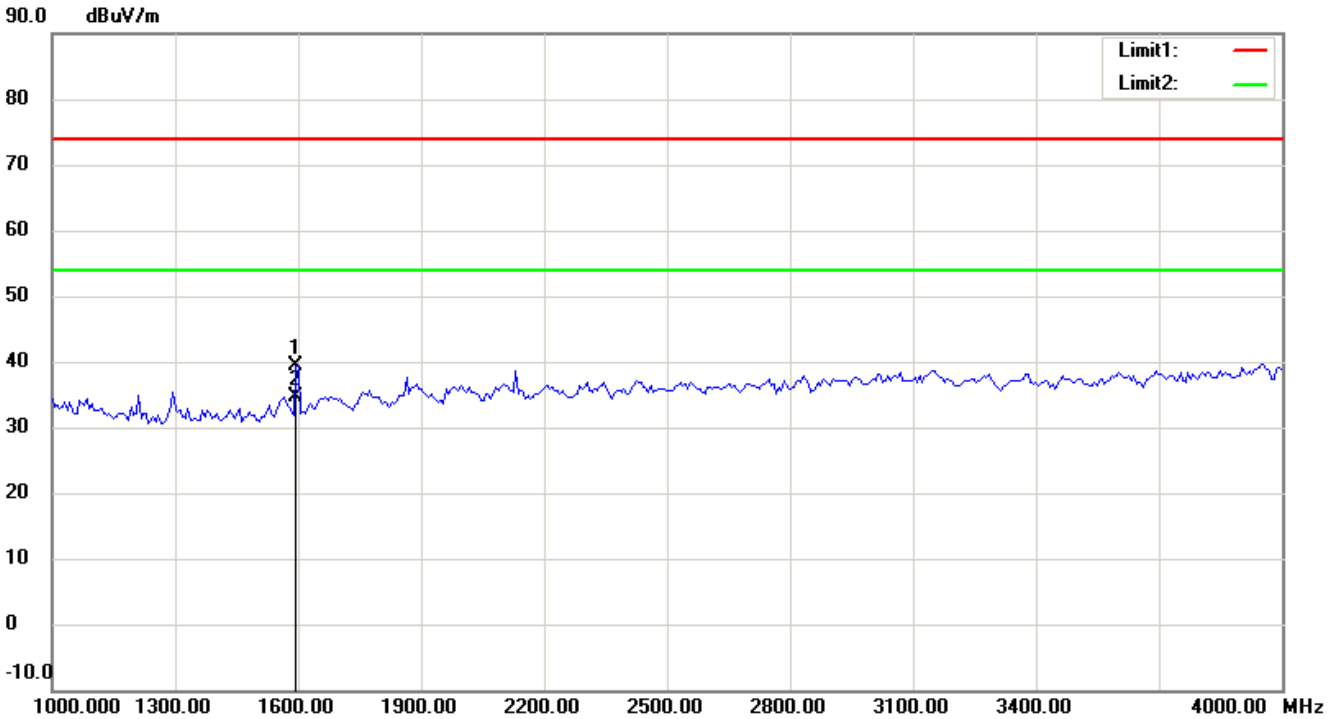
Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N

801.11n 40M CH151
Antenna Polarization H





Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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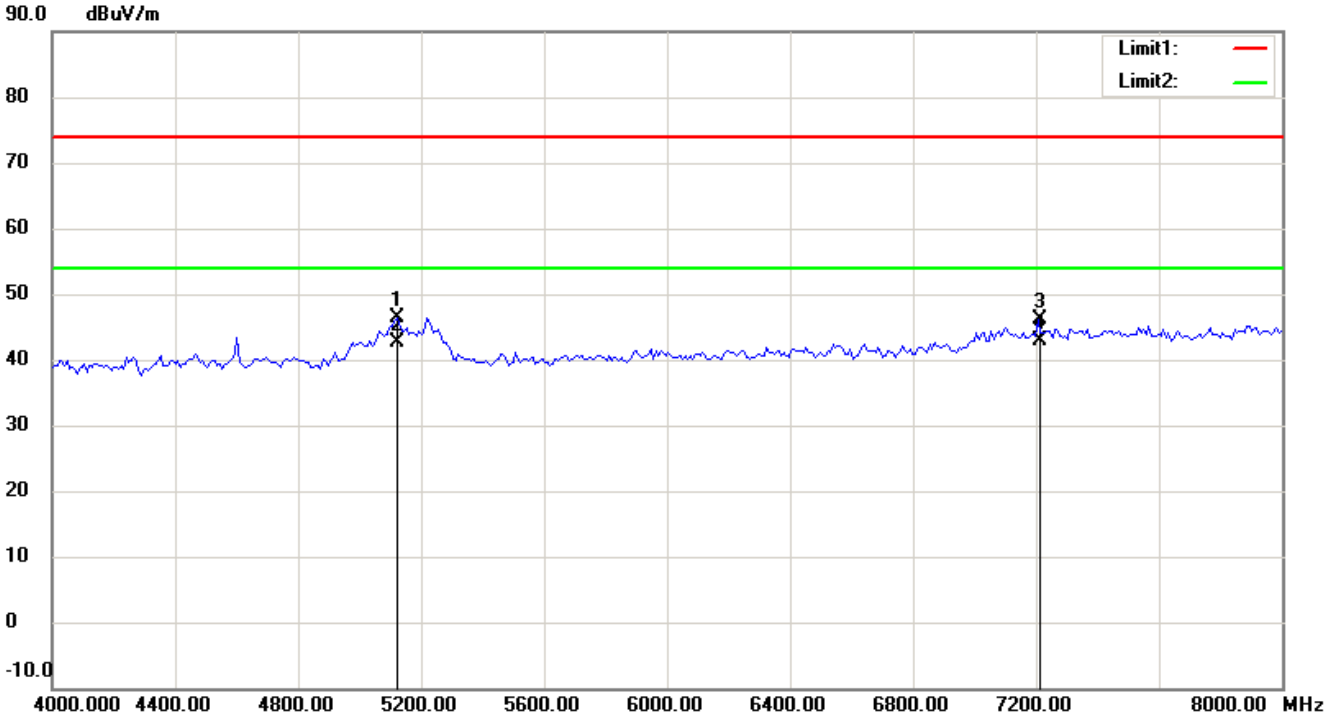
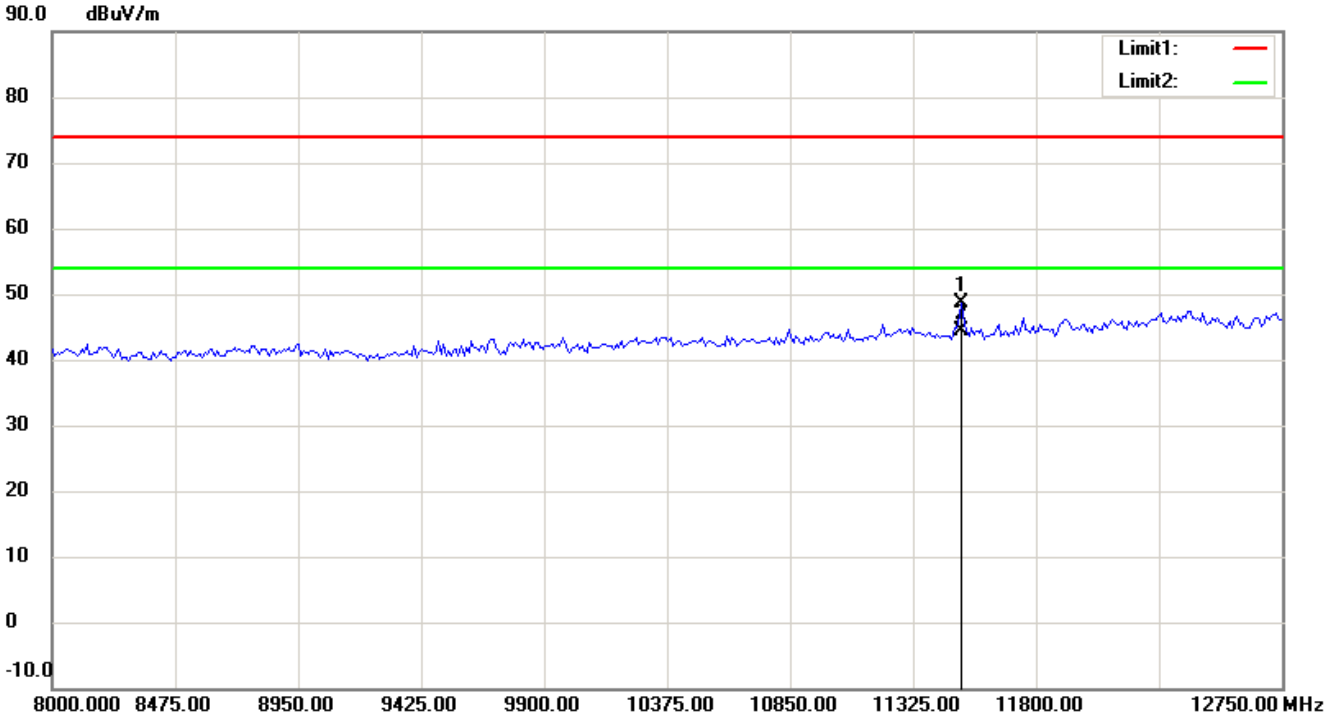
Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N





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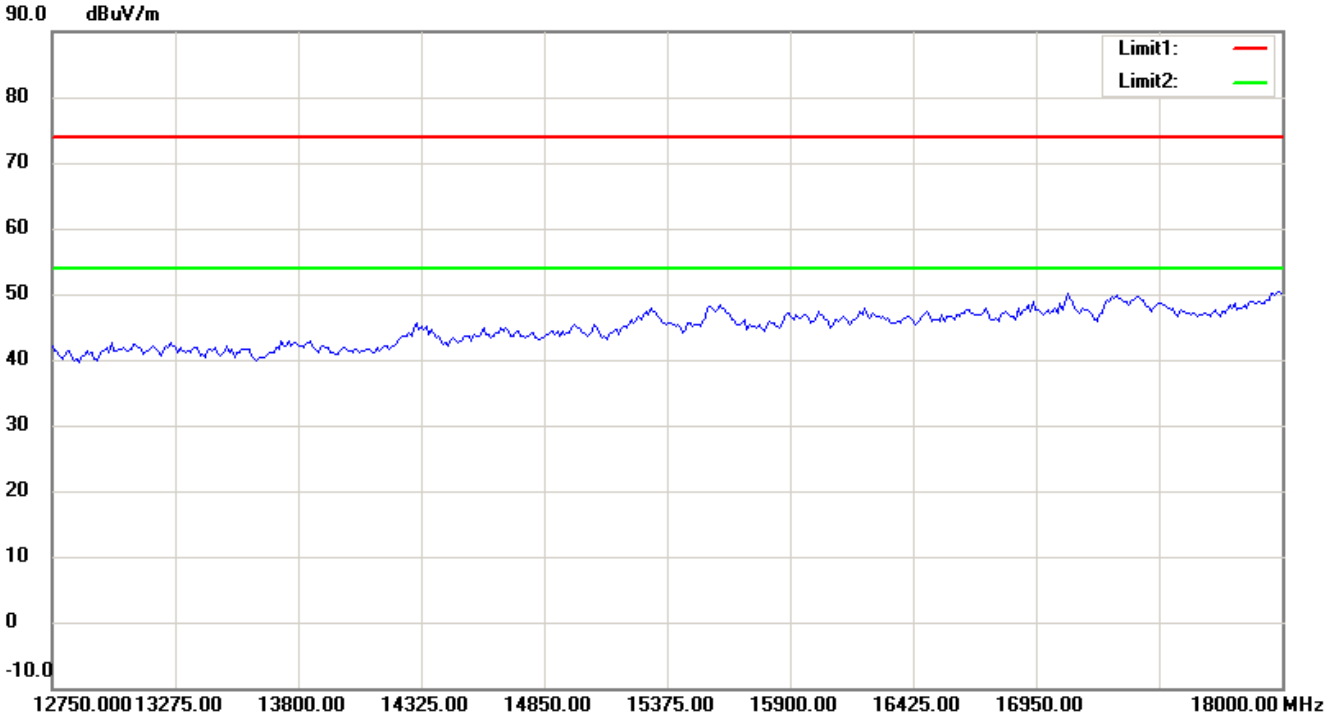
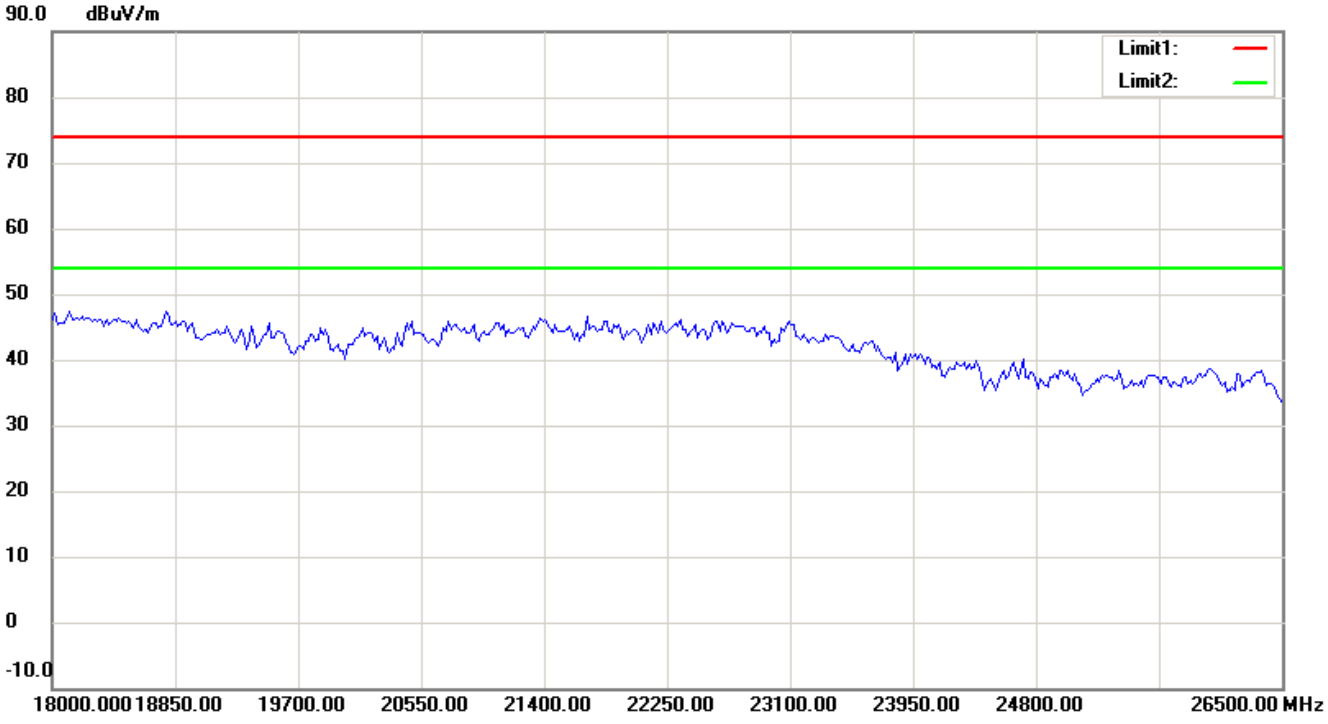
FCC ID: ODMAM5N





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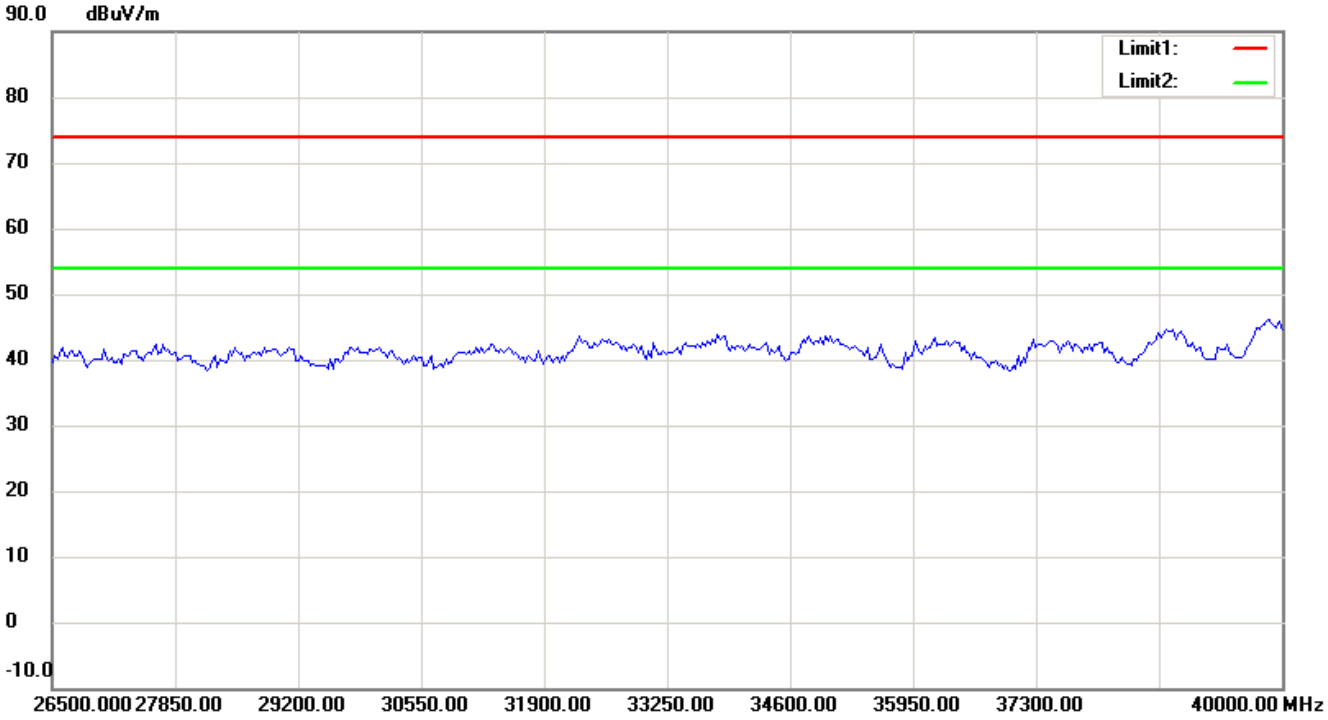
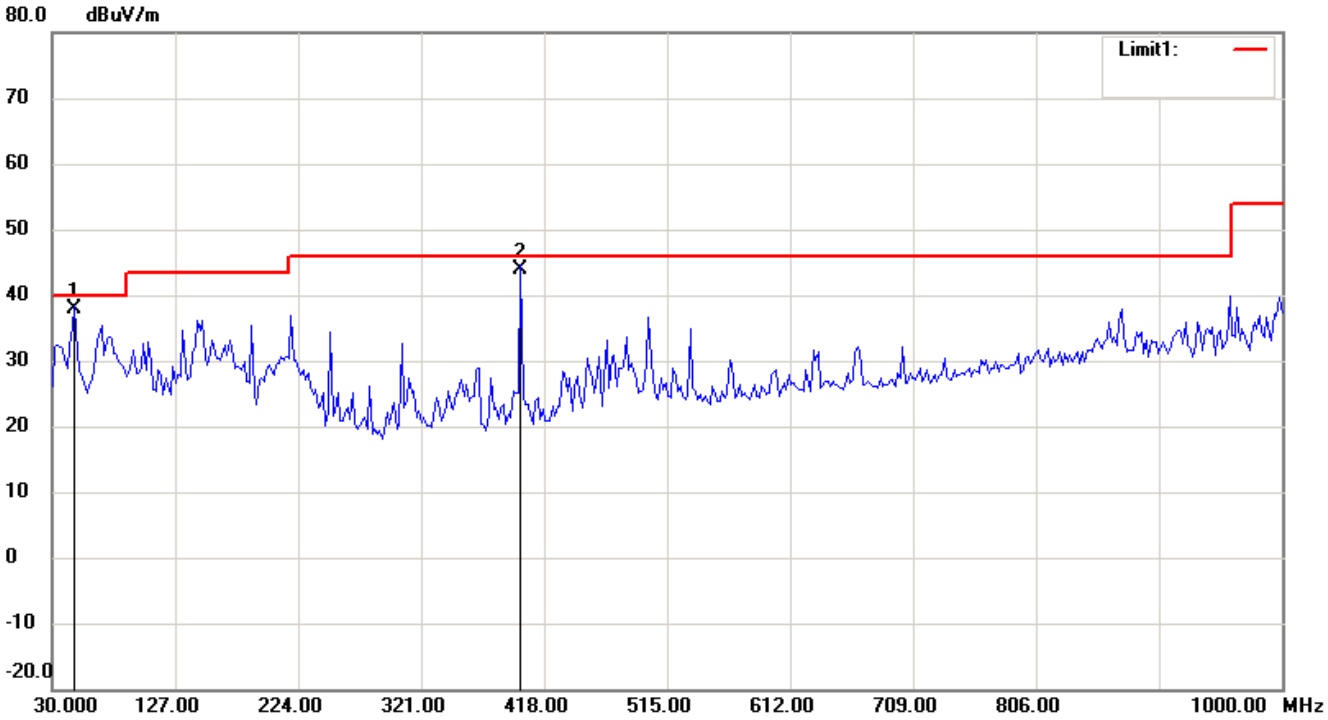


Antenna Polarization V



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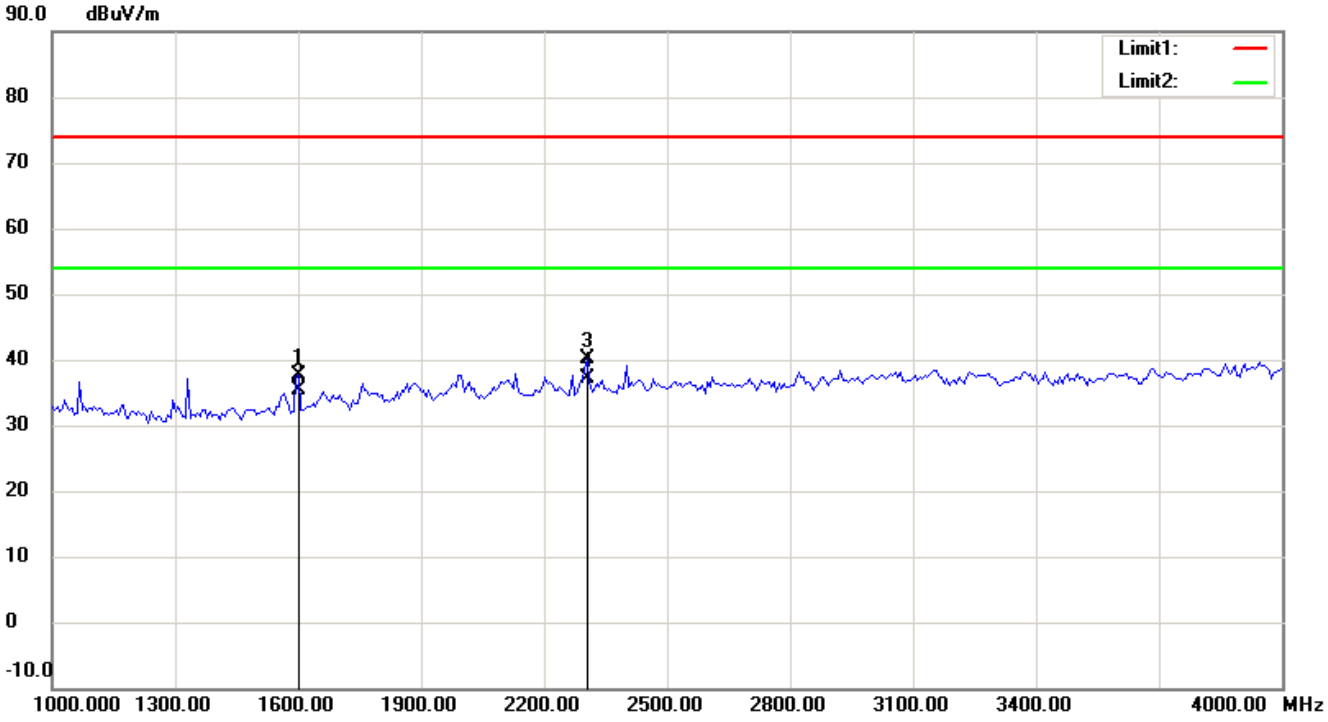
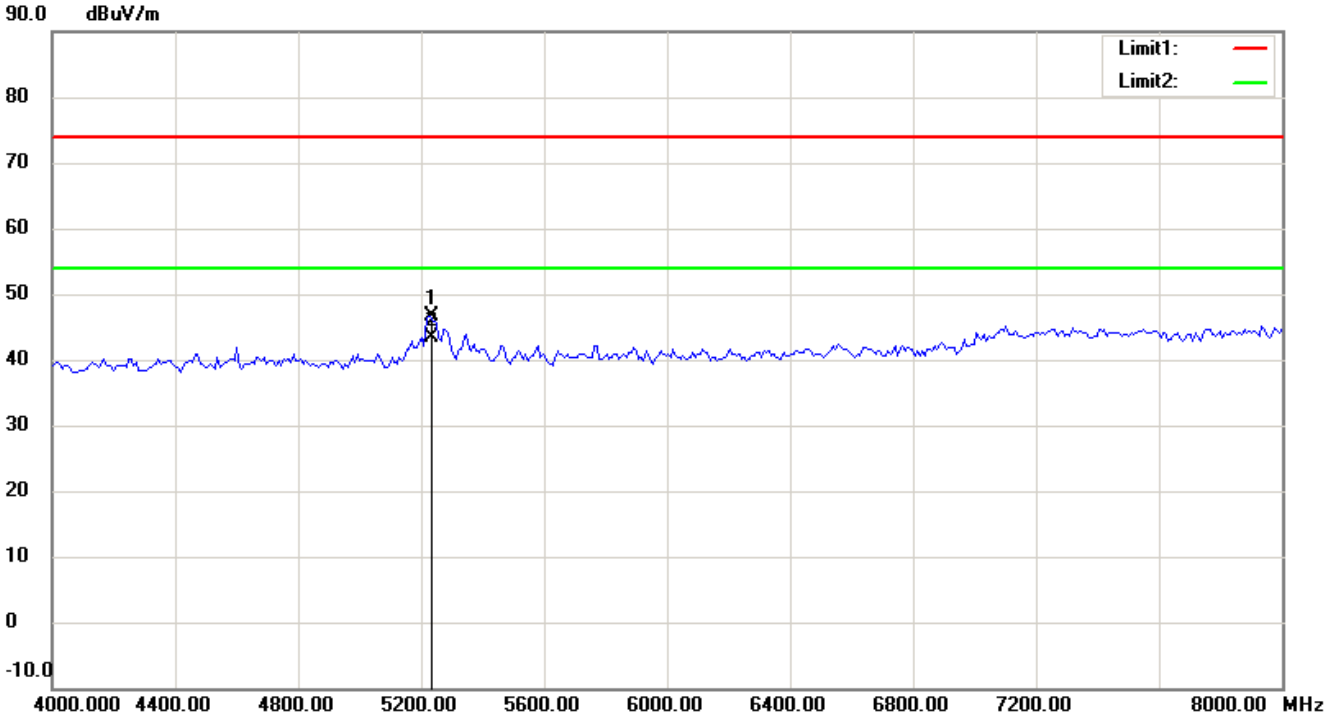
FCC ID: ODMAM5N





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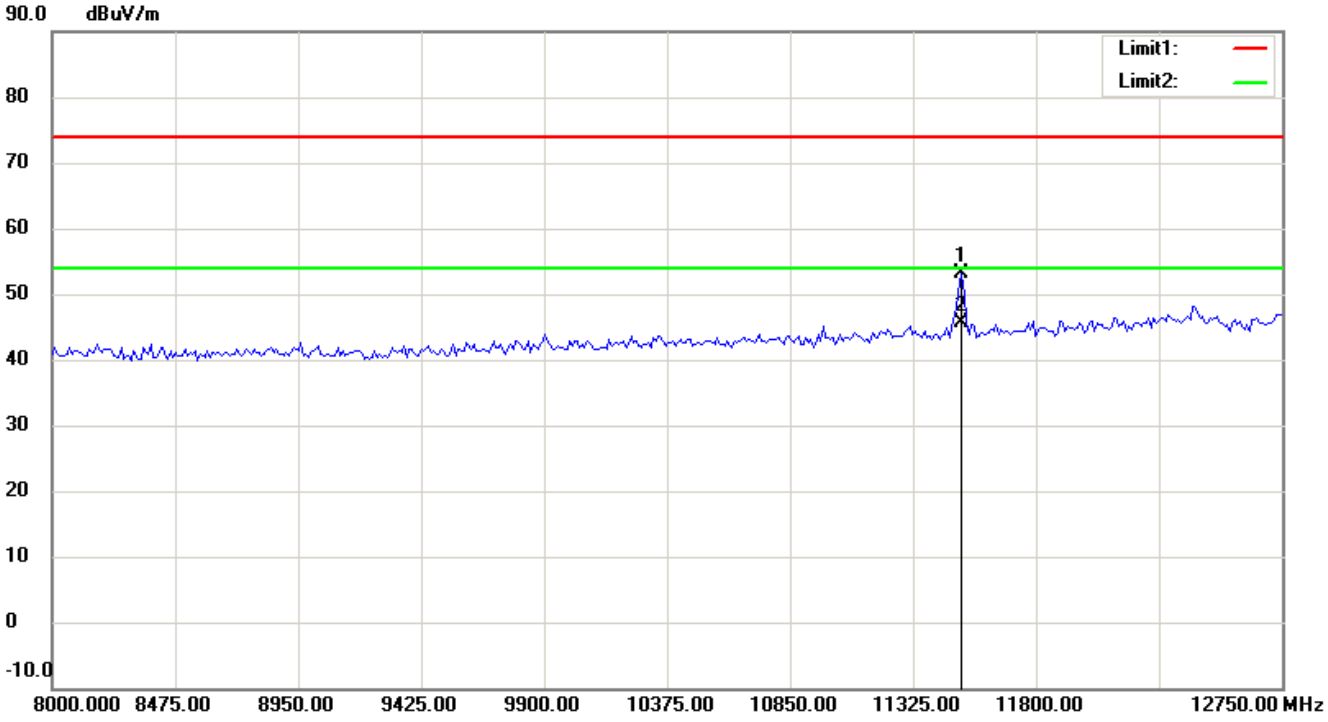

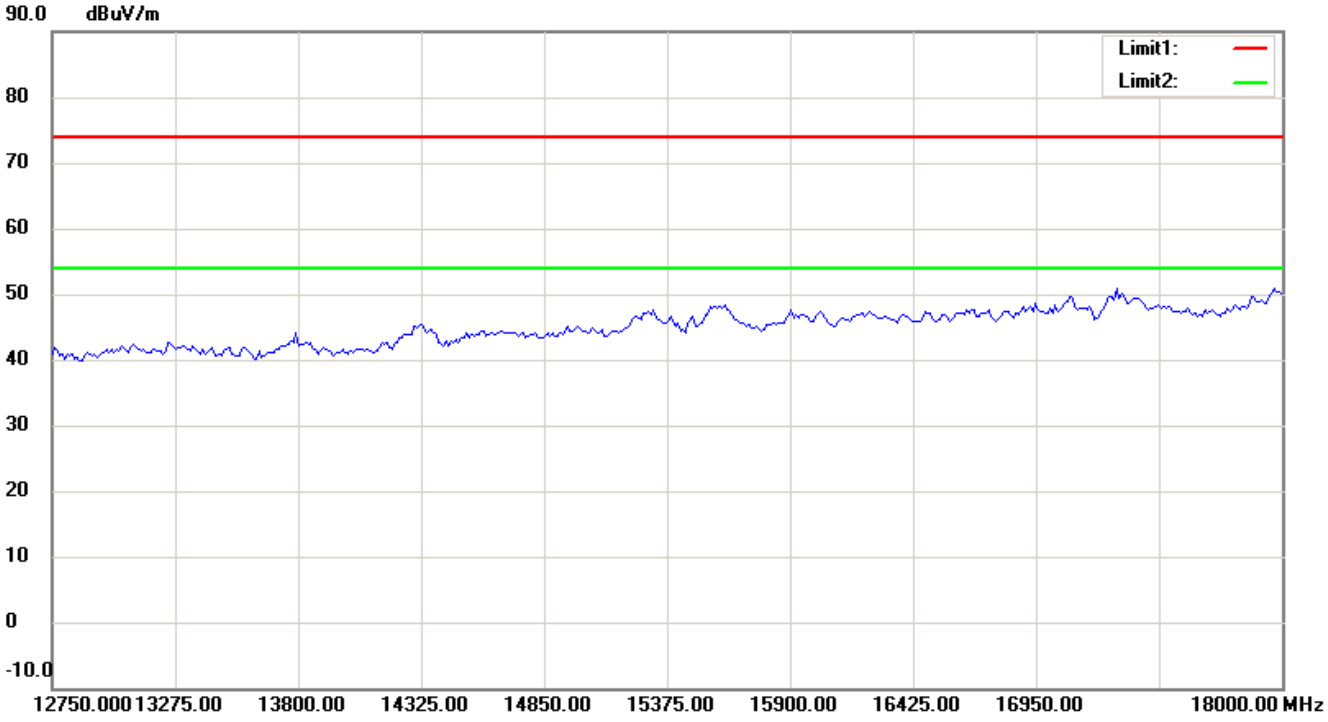

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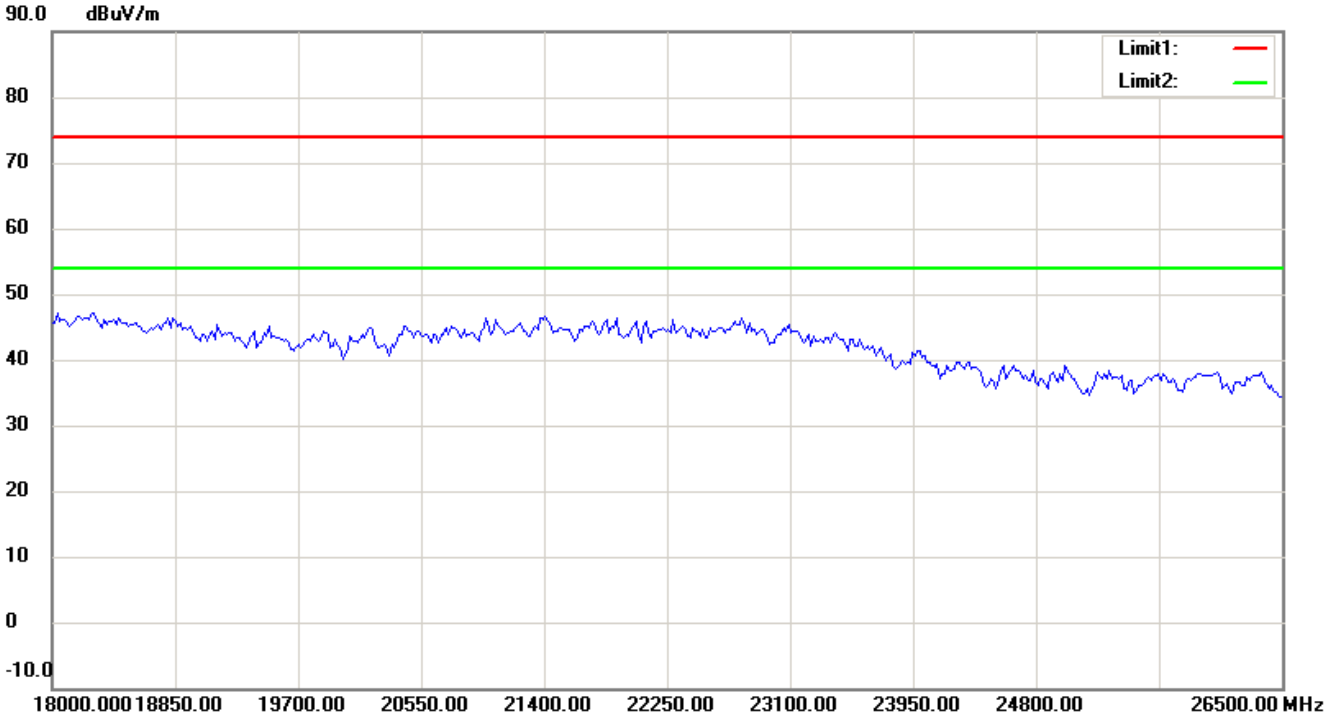

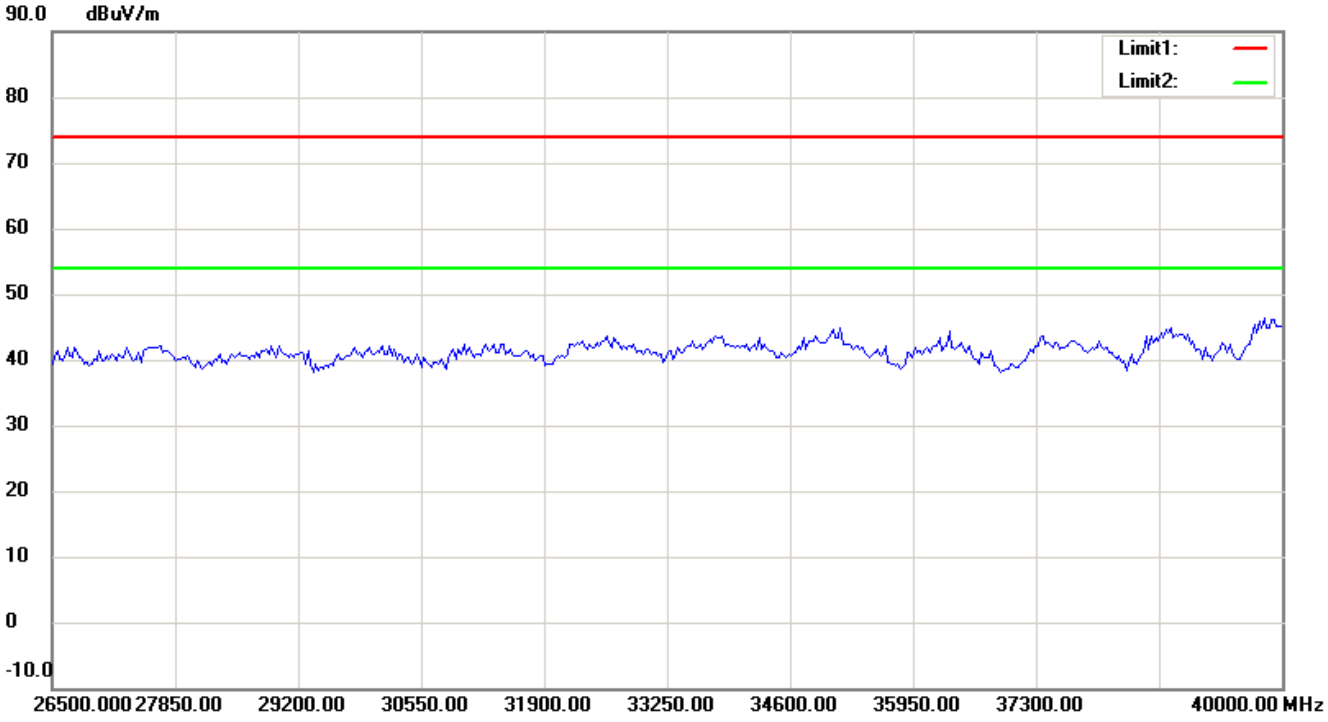

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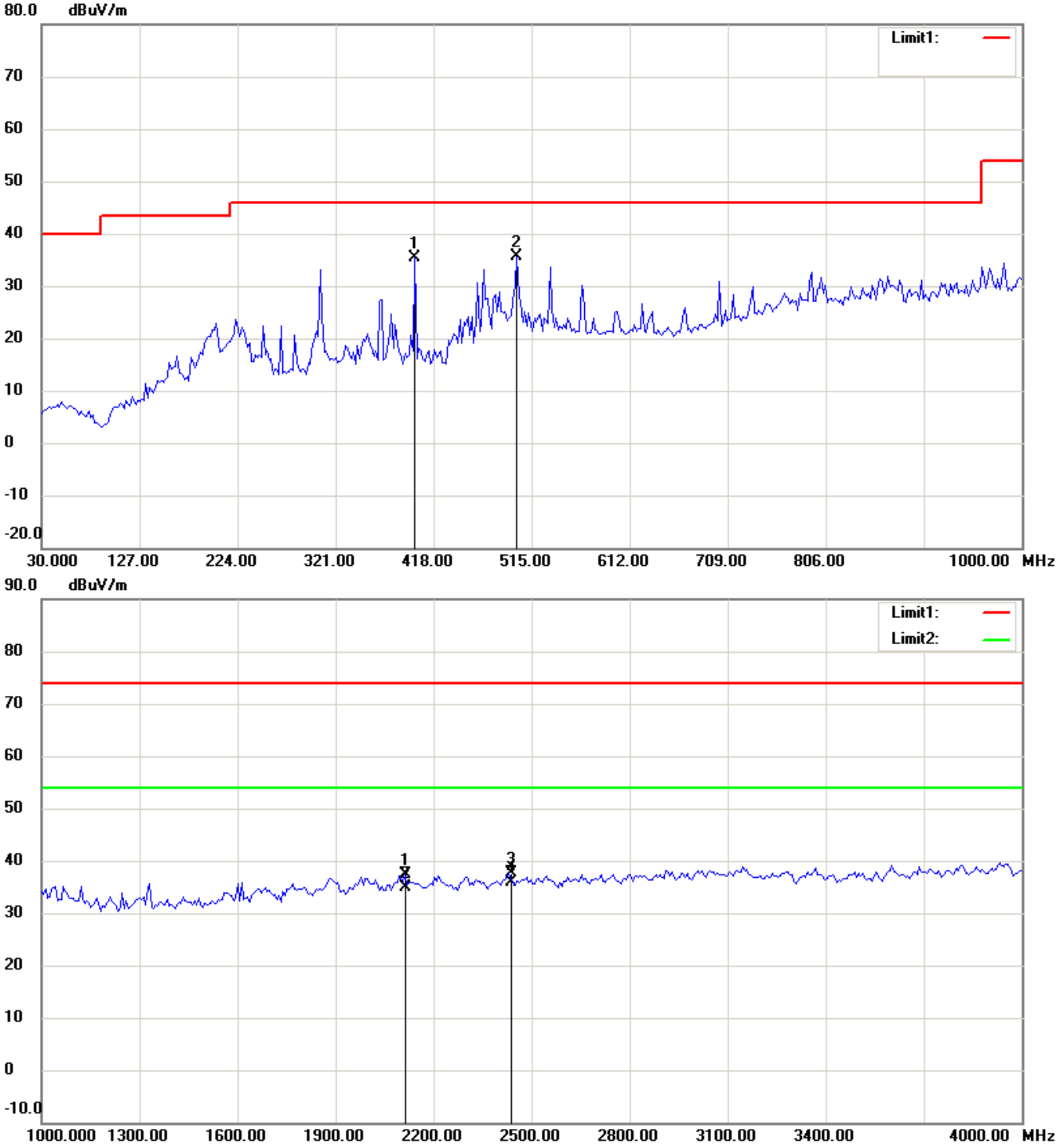
Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N

801.11n 40M CH159
Antenna Polarization H



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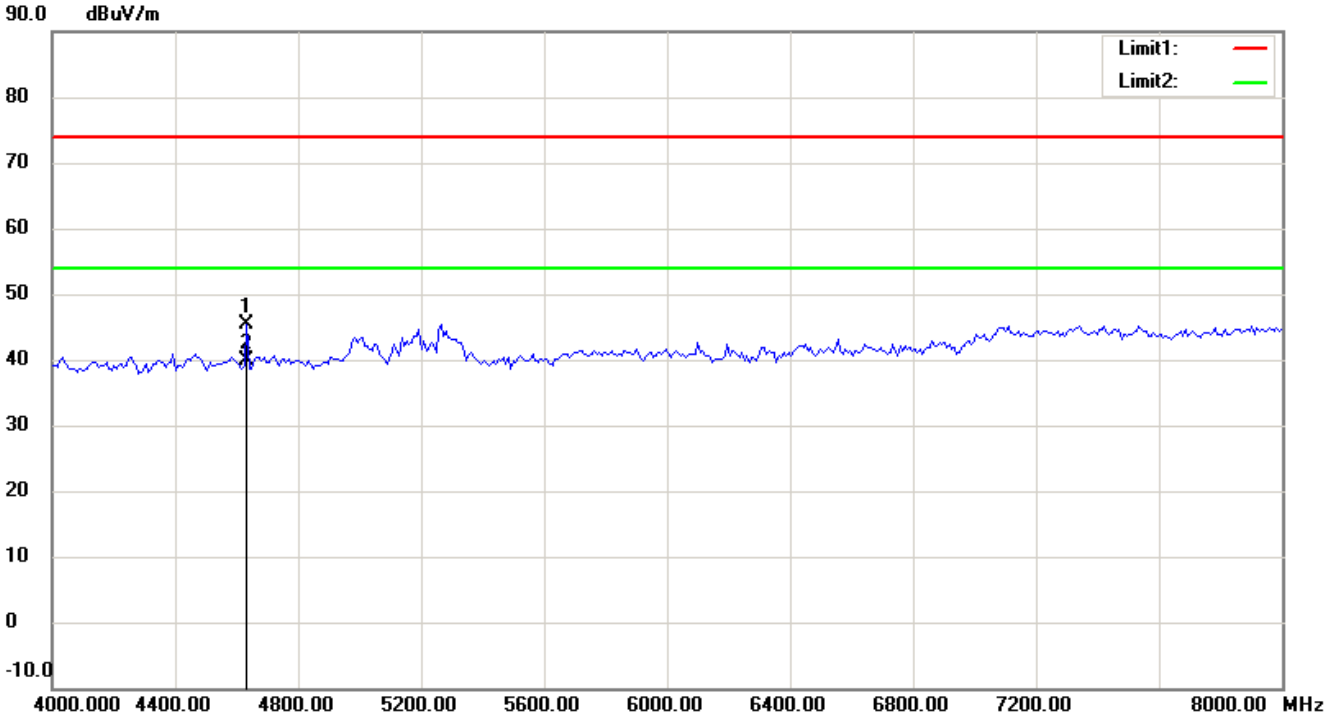
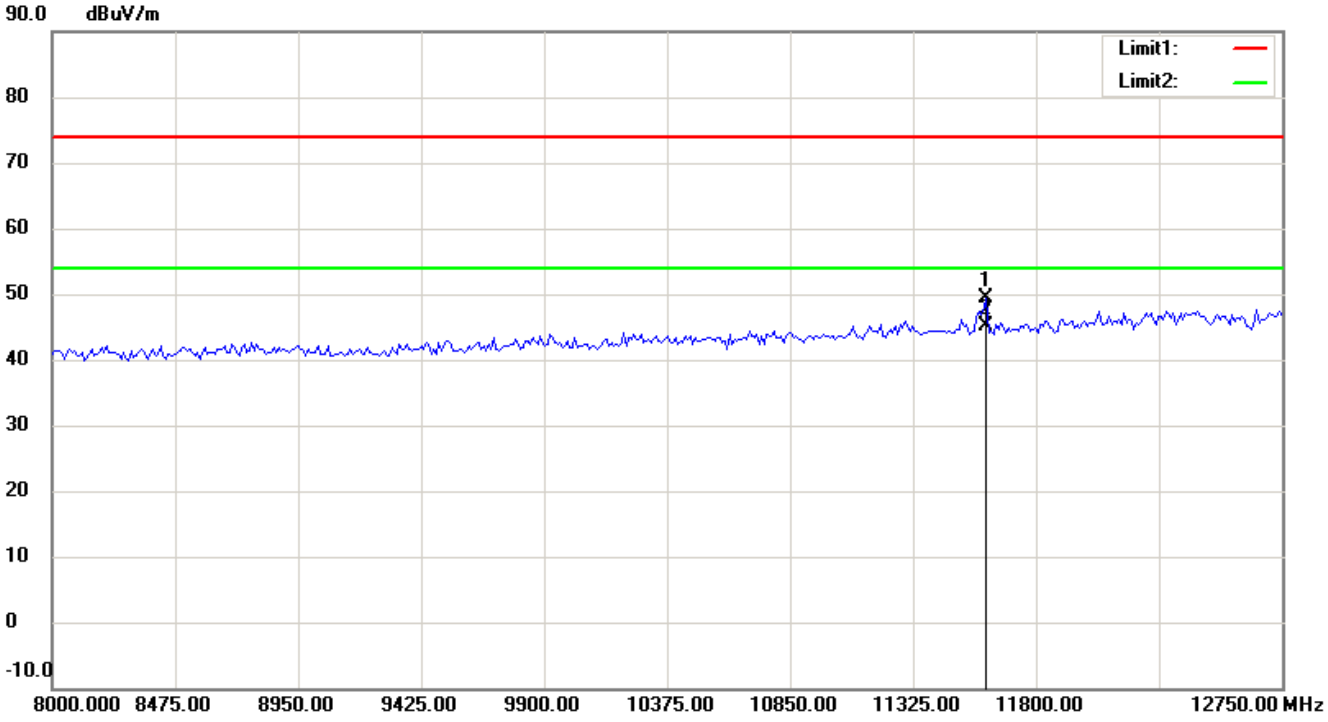
Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N





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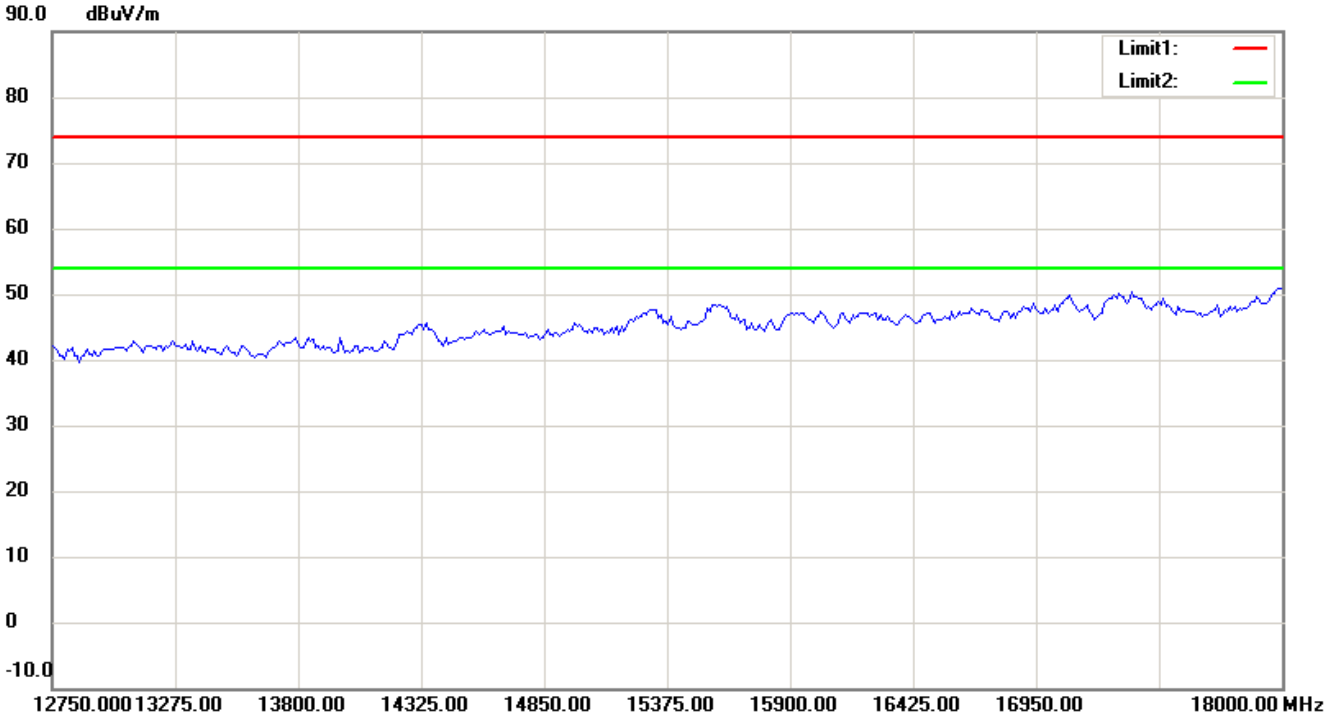

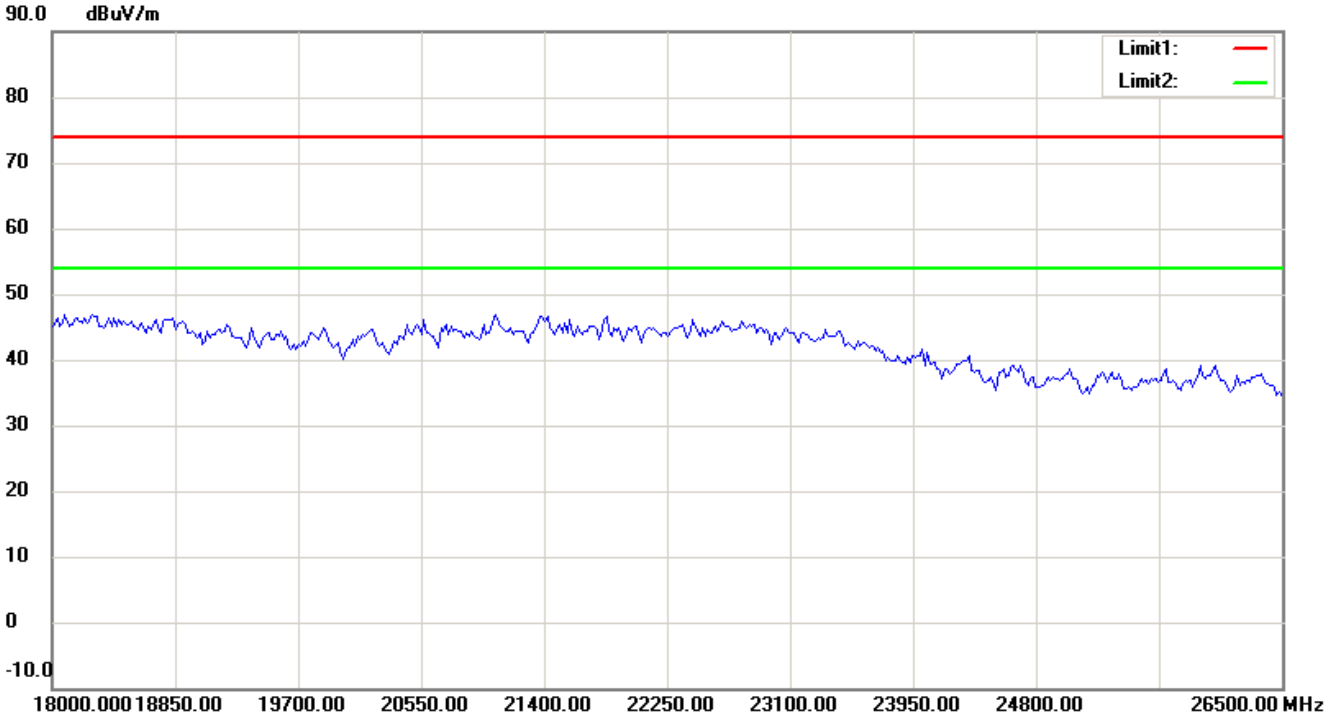

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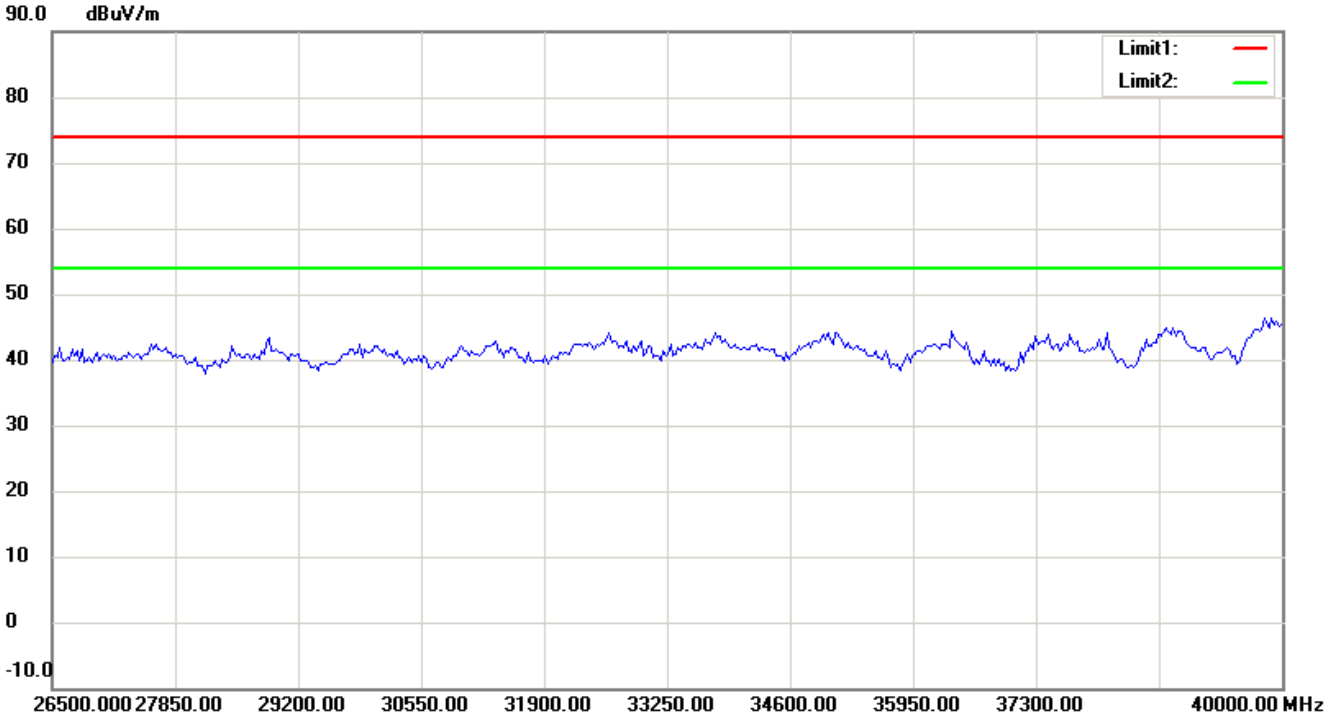
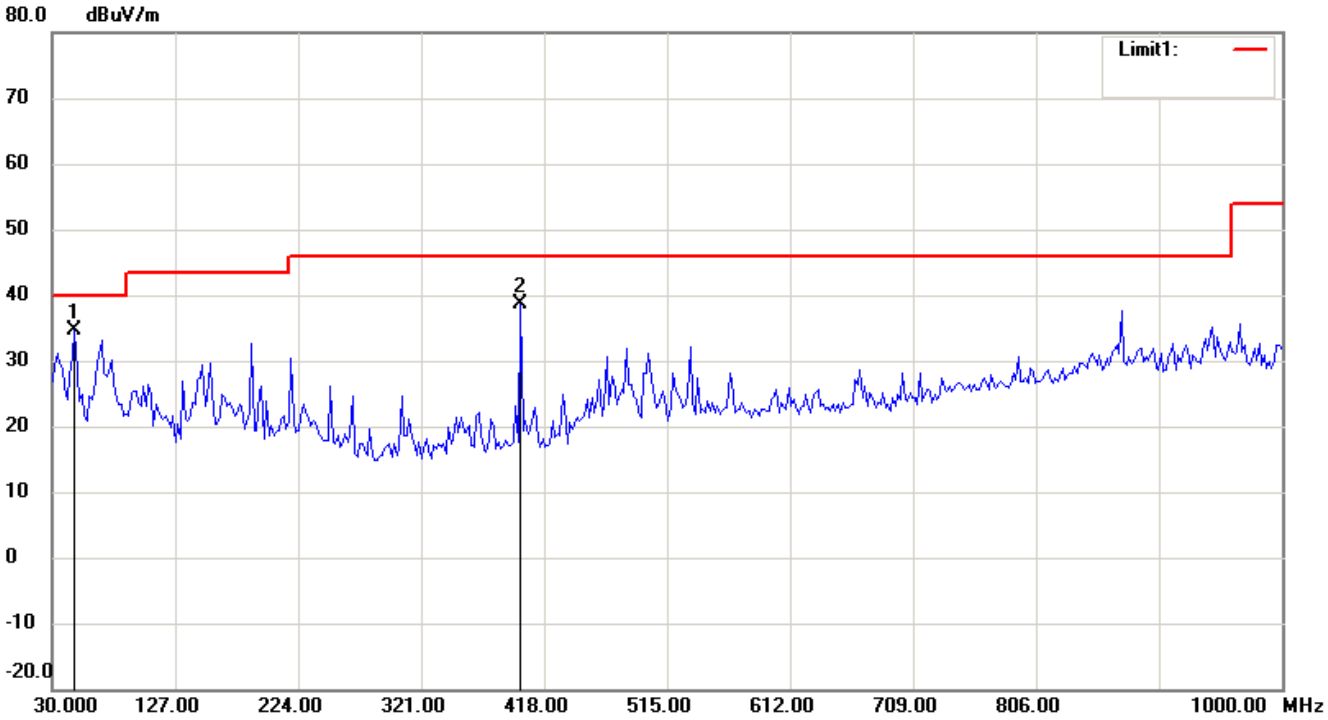


Antenna Polarization V



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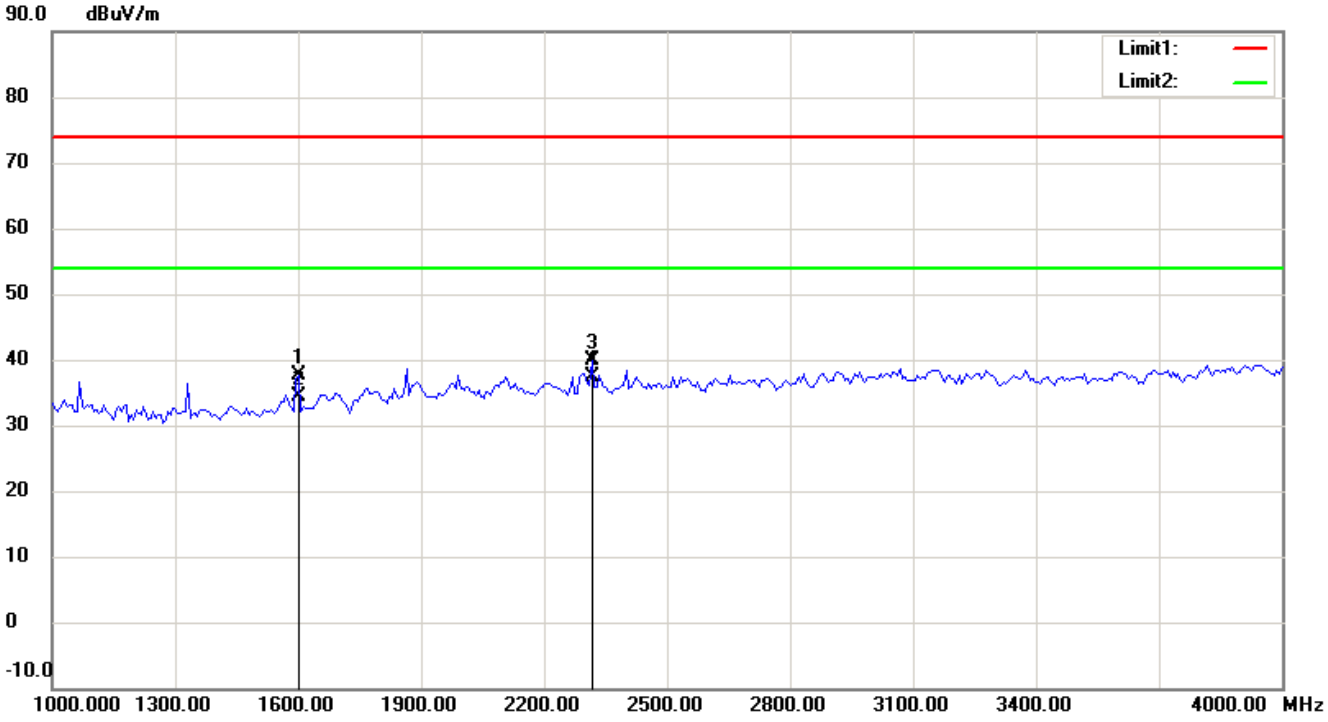
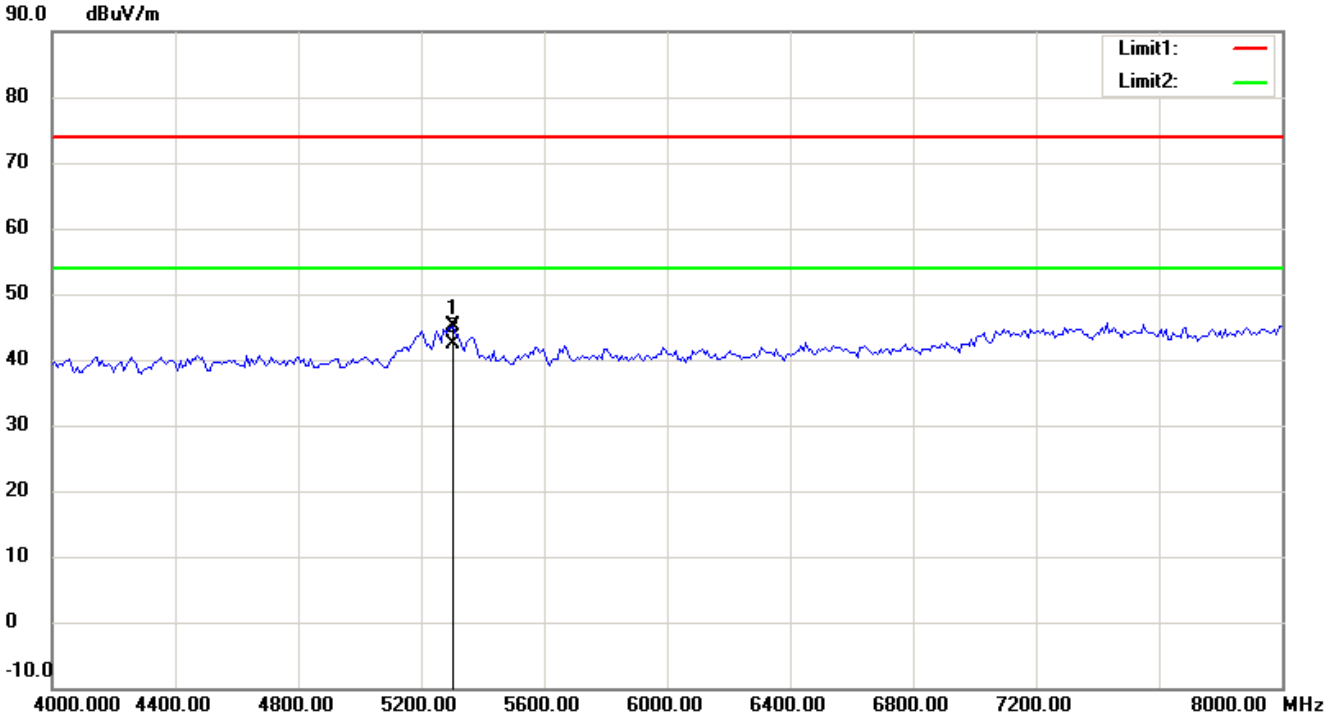
FCC ID: ODMAM5N





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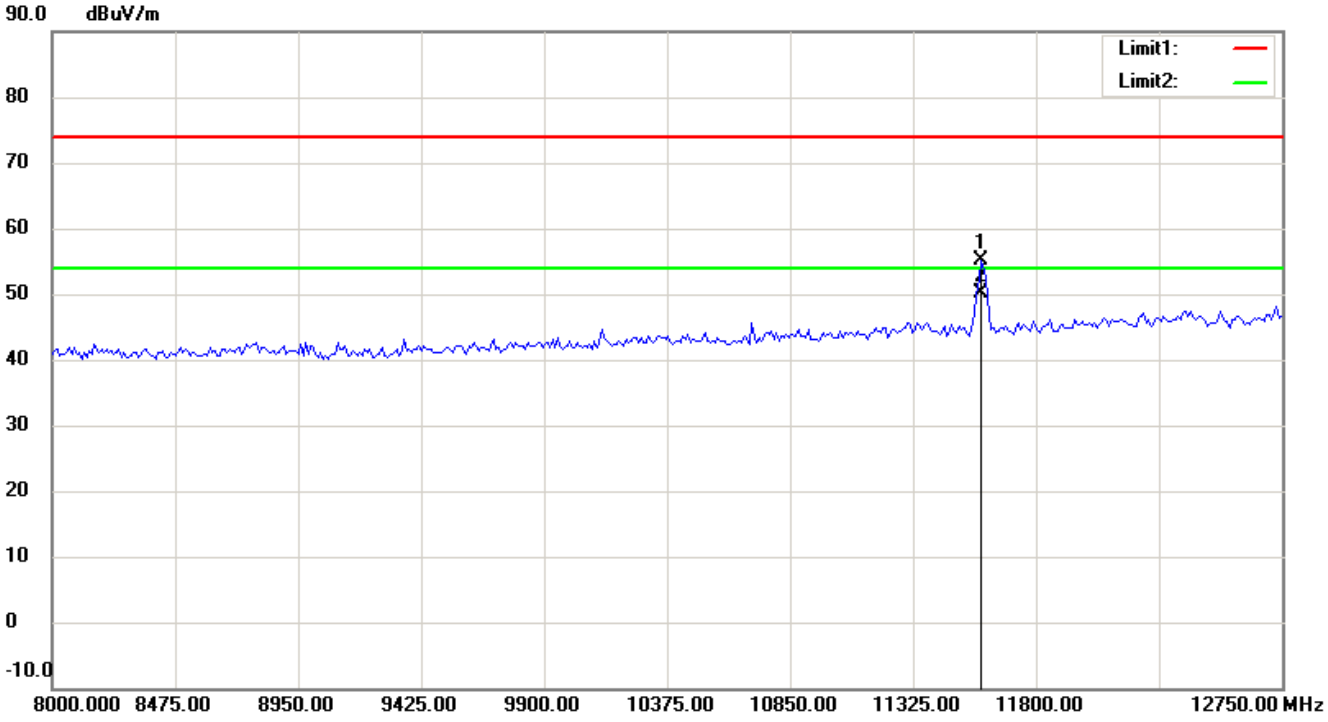
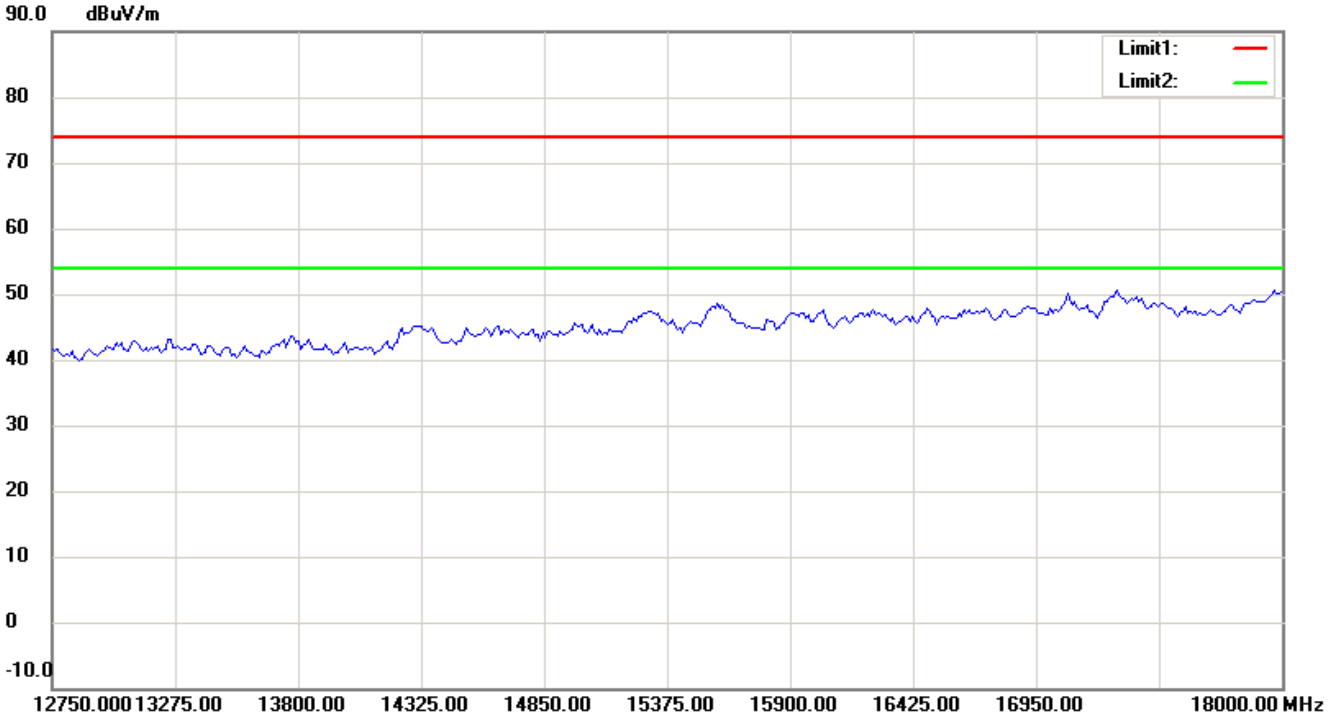
Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N





Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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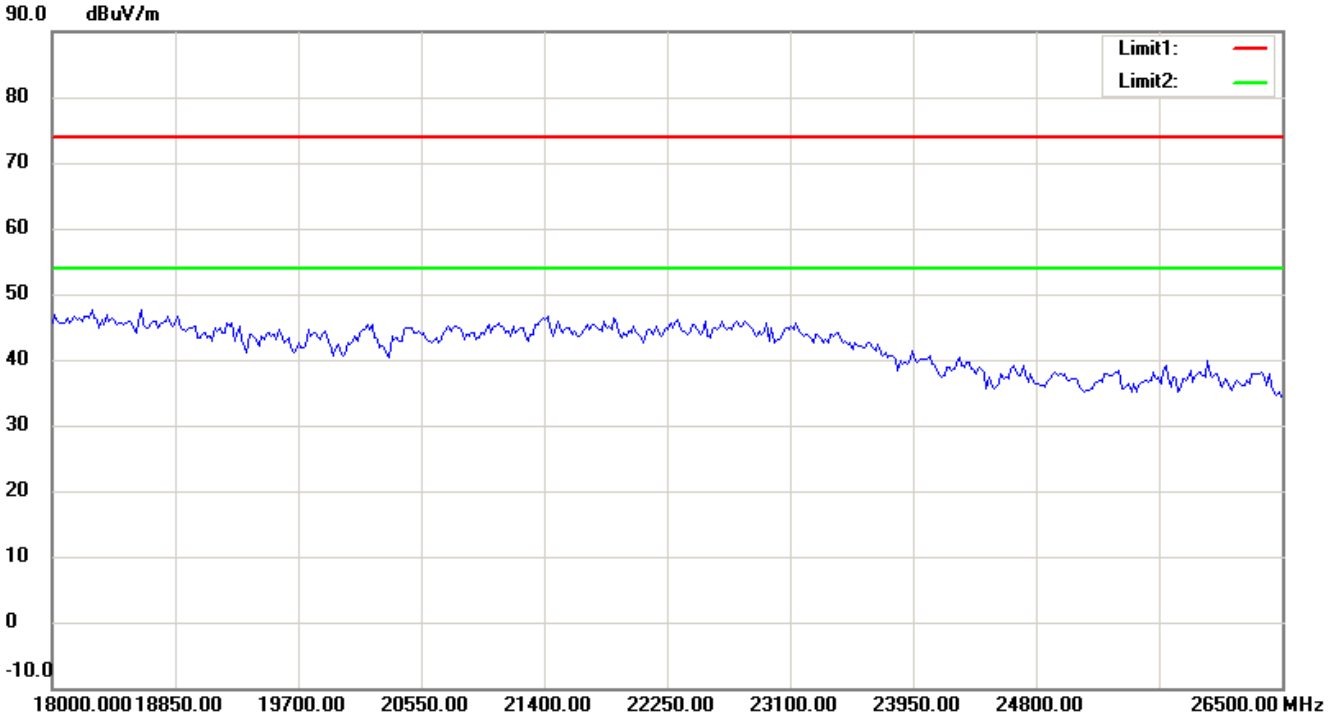
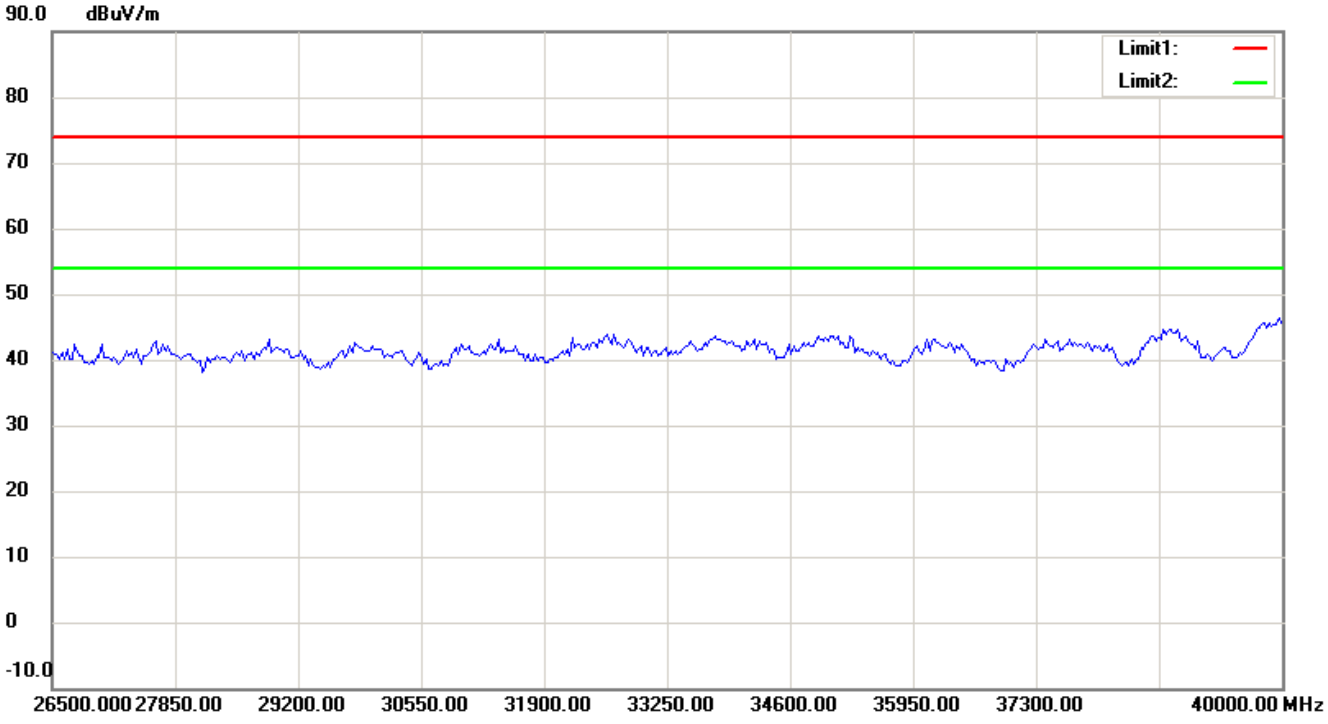
FCC ID: ODMAM5N





Up Line: Peak Limit Line Down Line: Ave Limit Line
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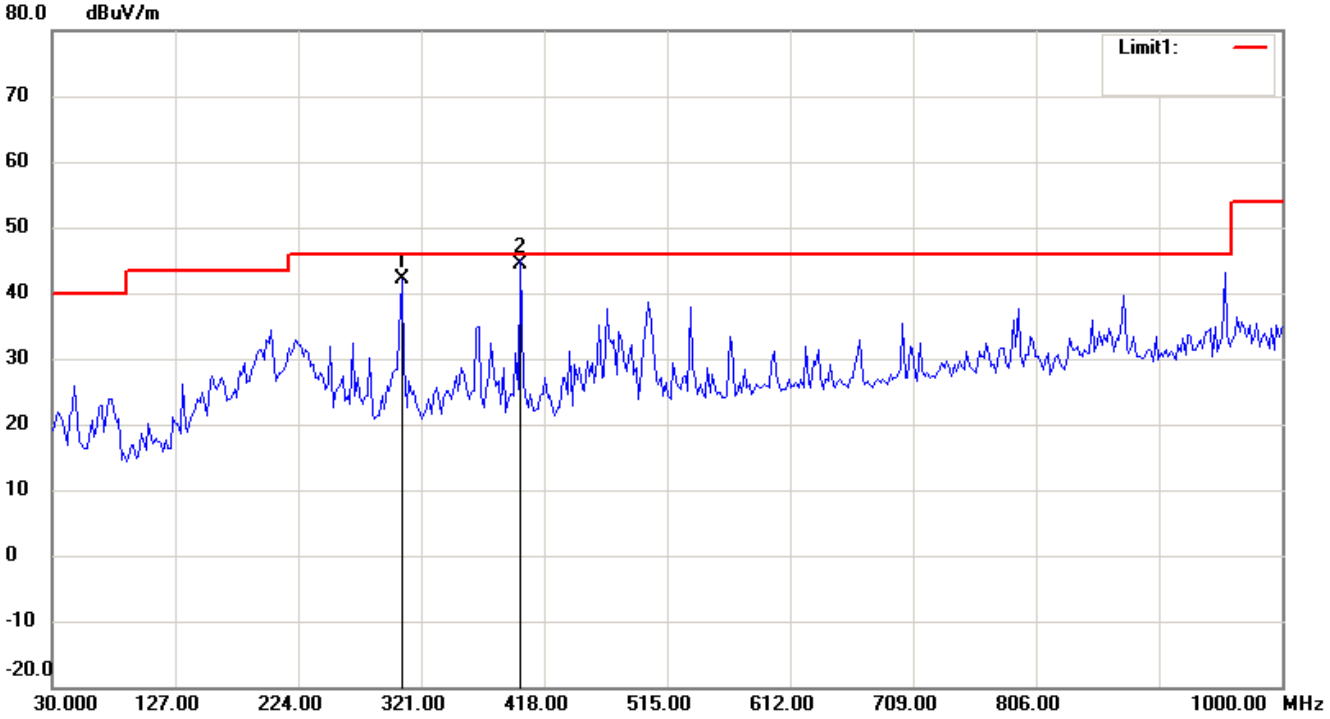
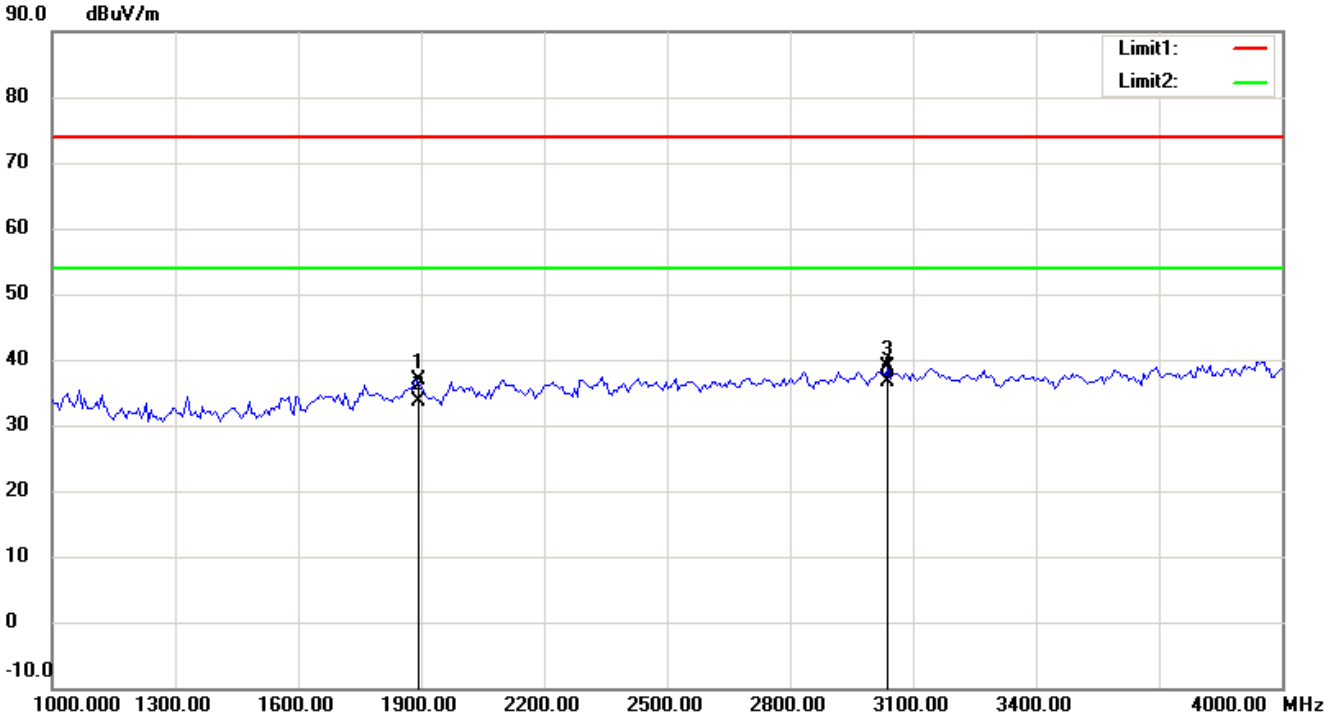
Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N

801.11n 40M CH161
Antenna Polarization H





Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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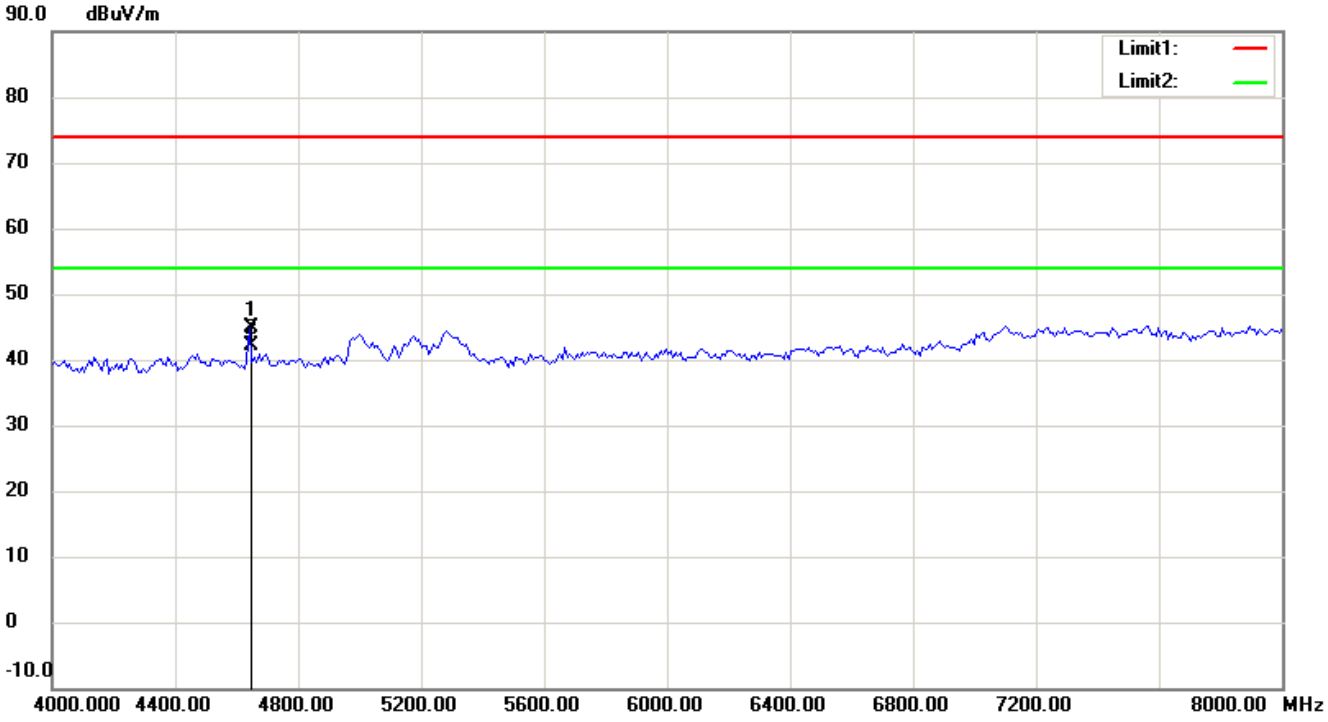
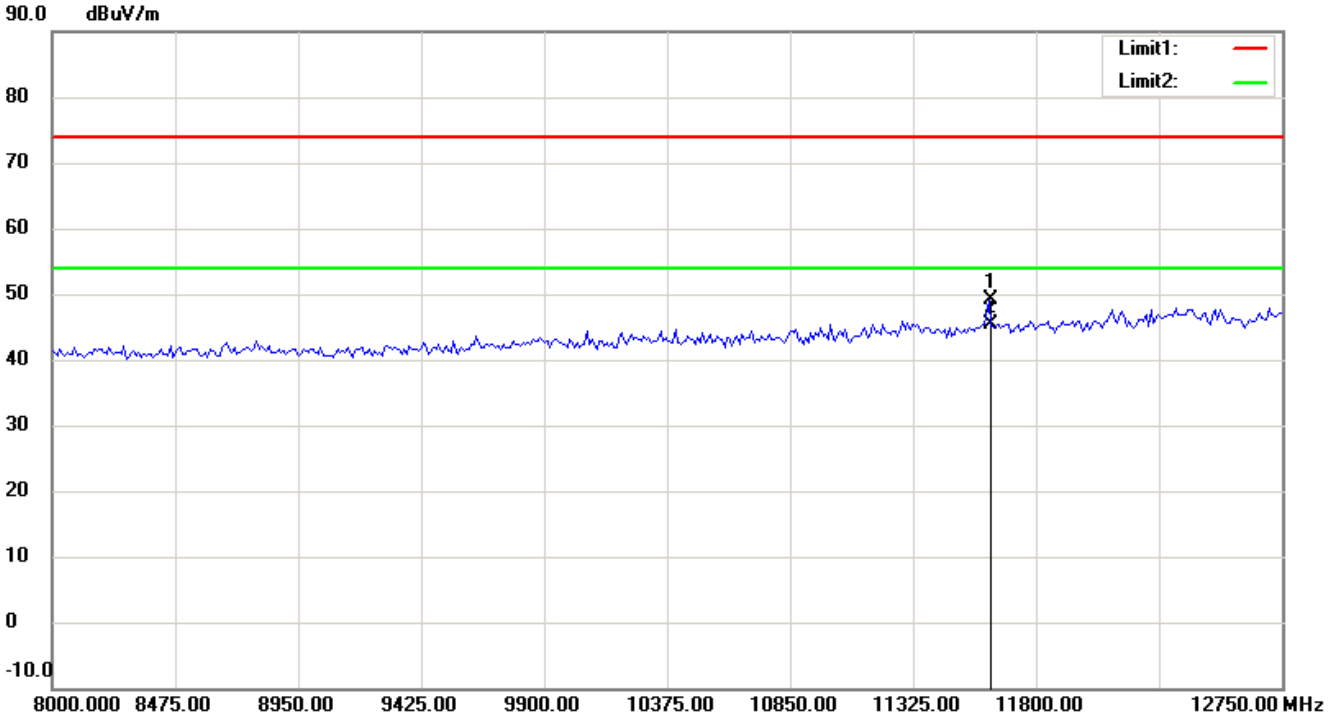
Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N





Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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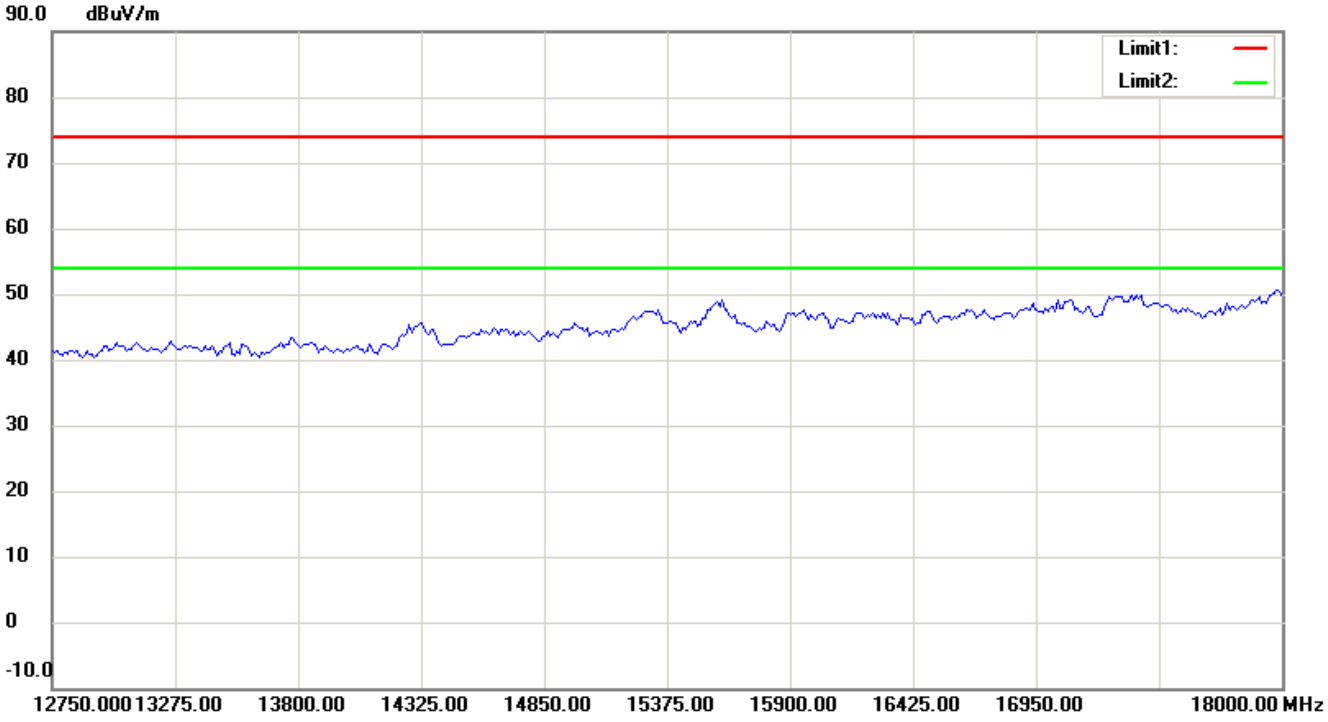
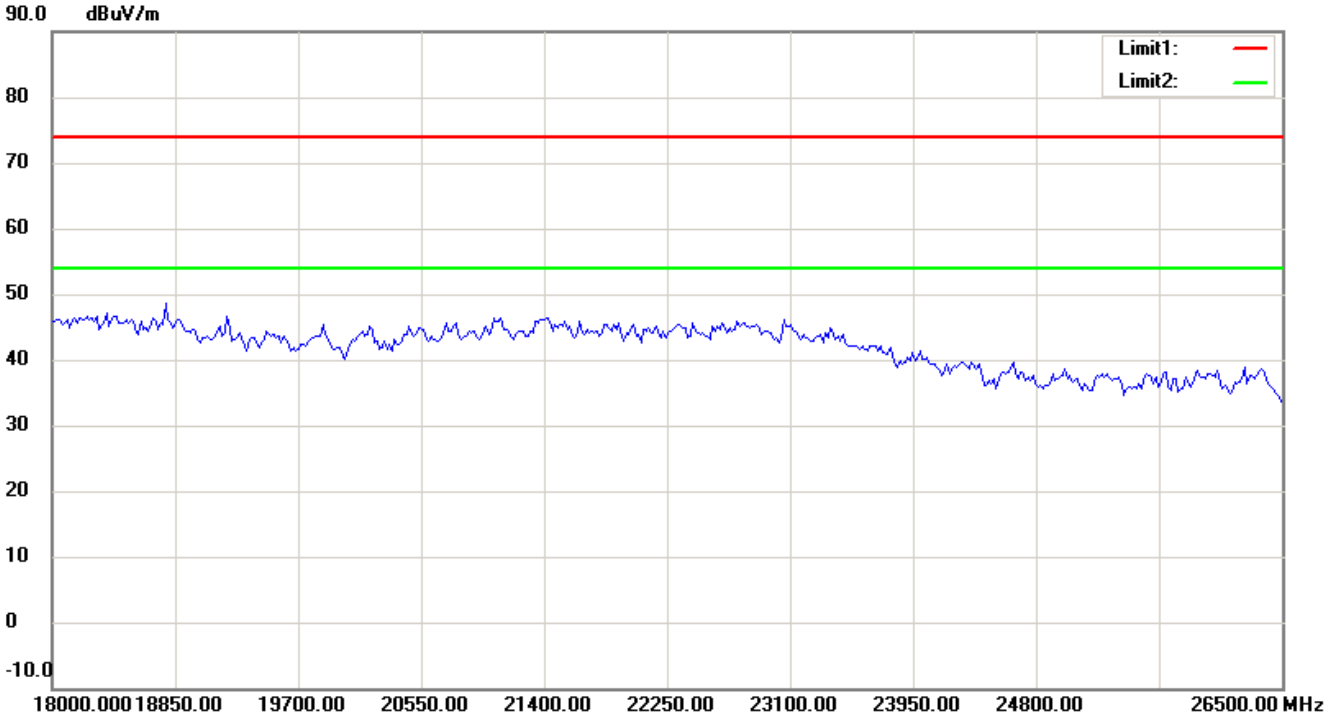
FCC ID: ODMAM5N





Up Line: Peak Limit Line Down Line: Ave Limit Line
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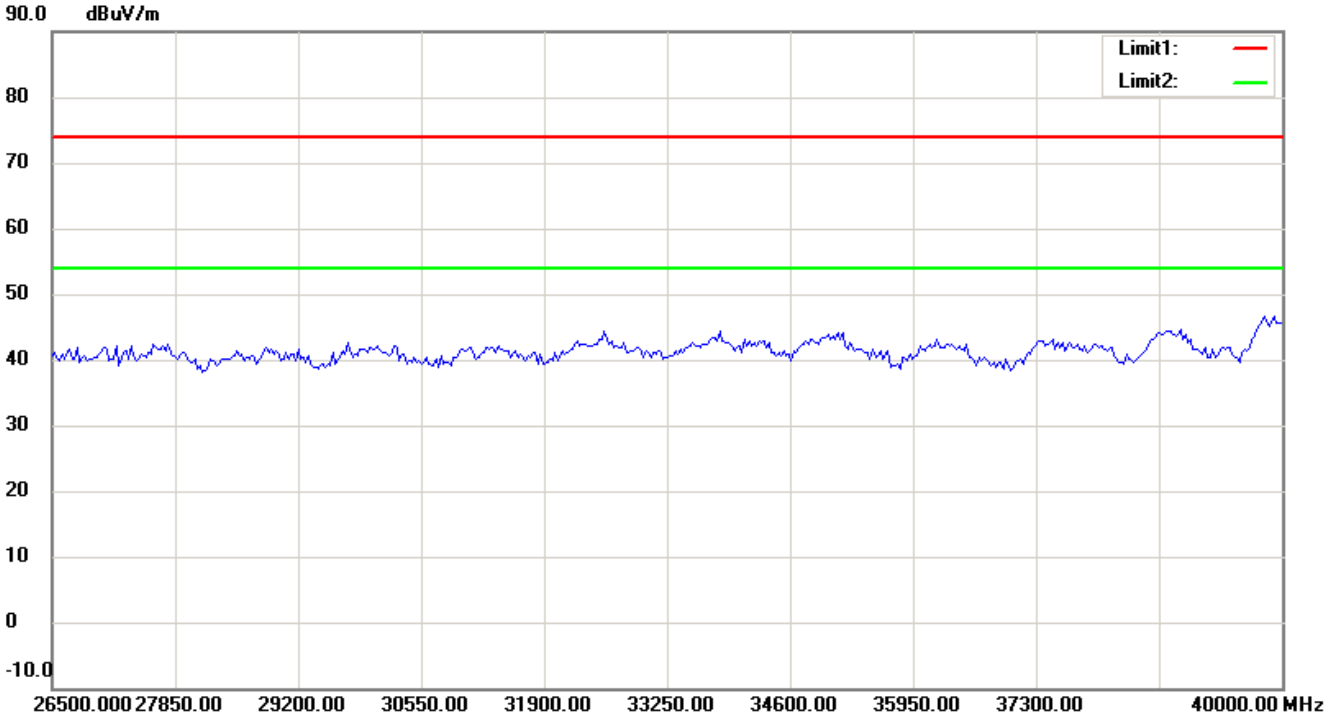
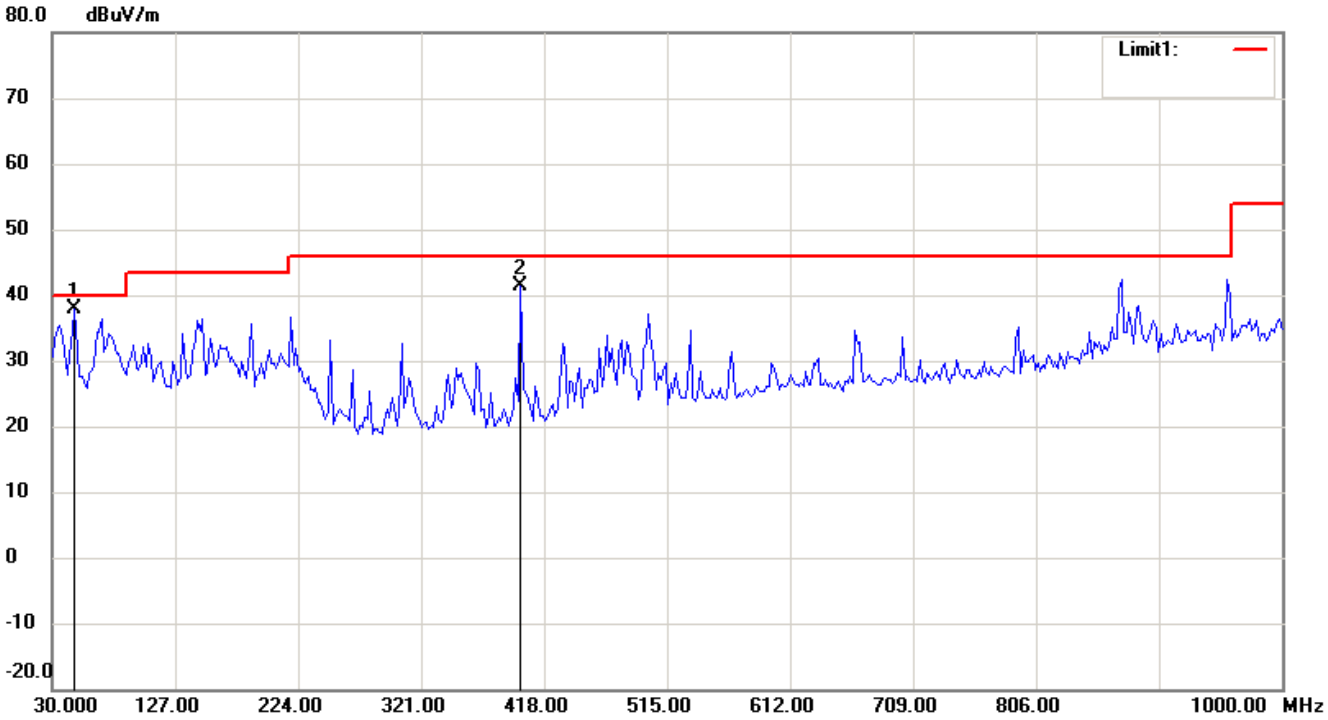
FCC ID: ODMAM5N



Antenna Polarization V



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Note:

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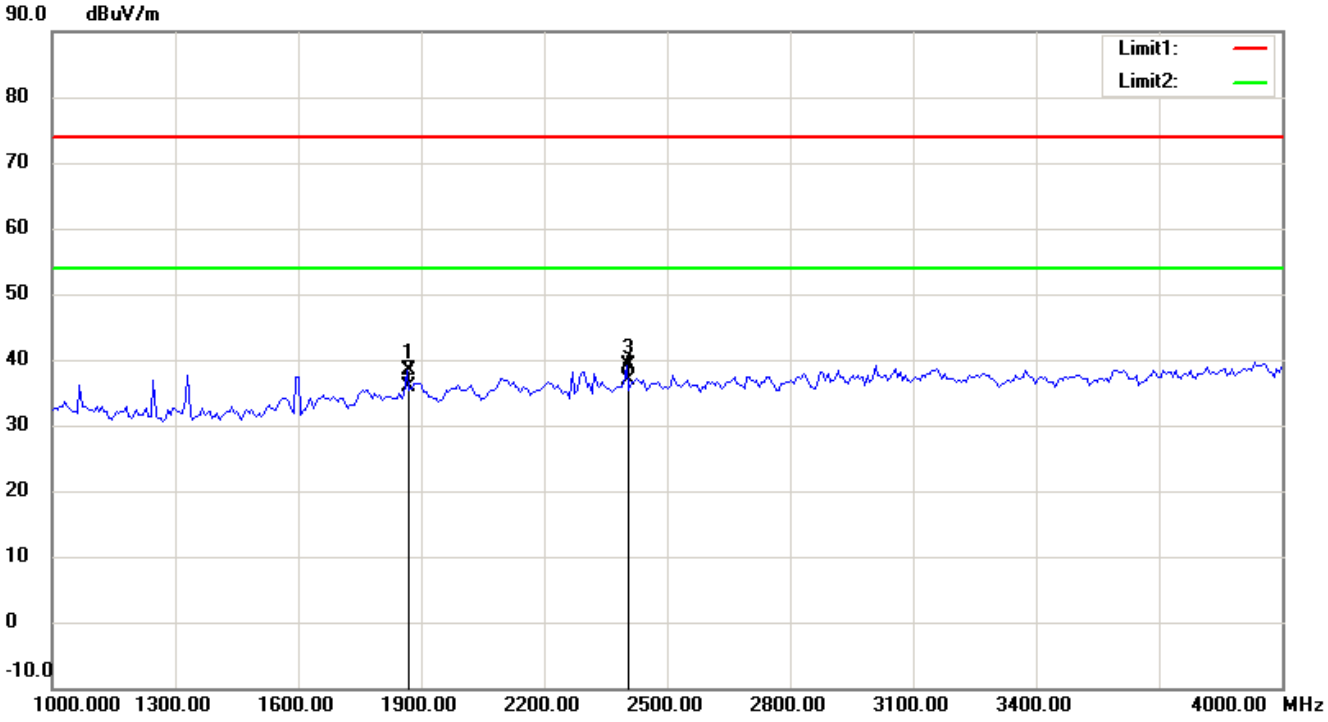
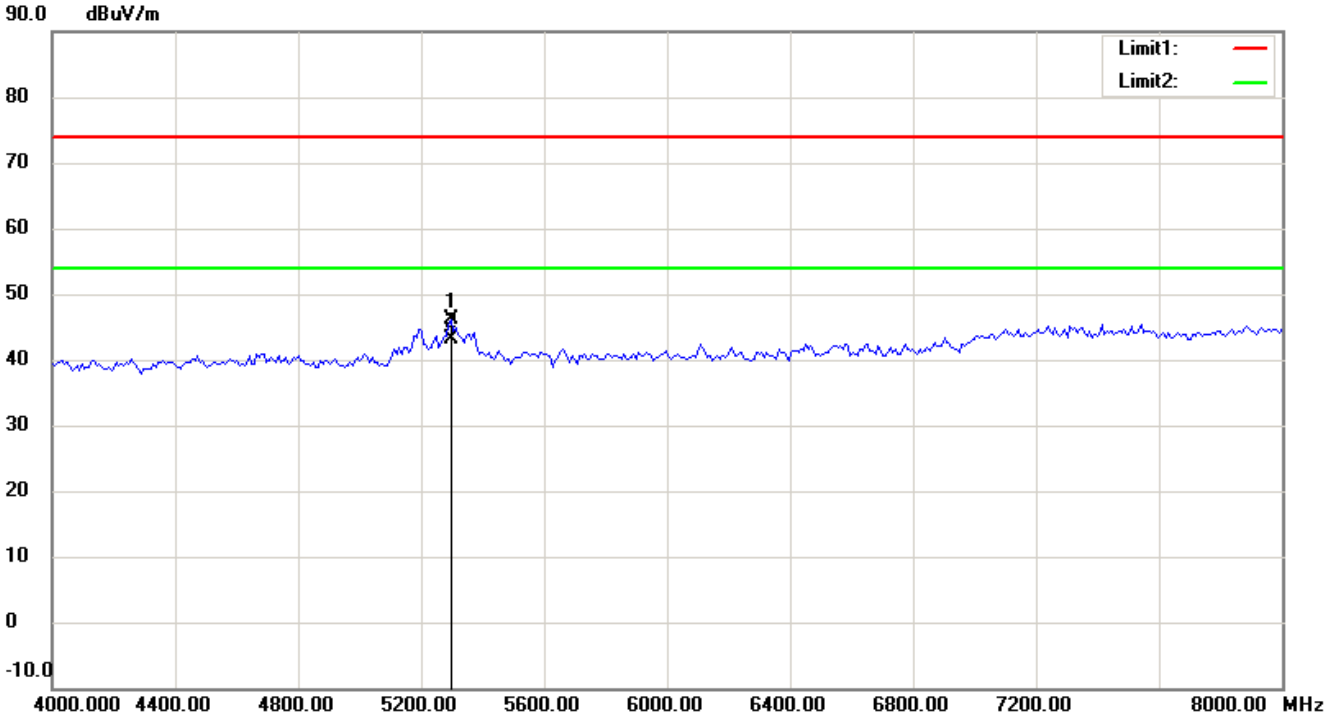
Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N





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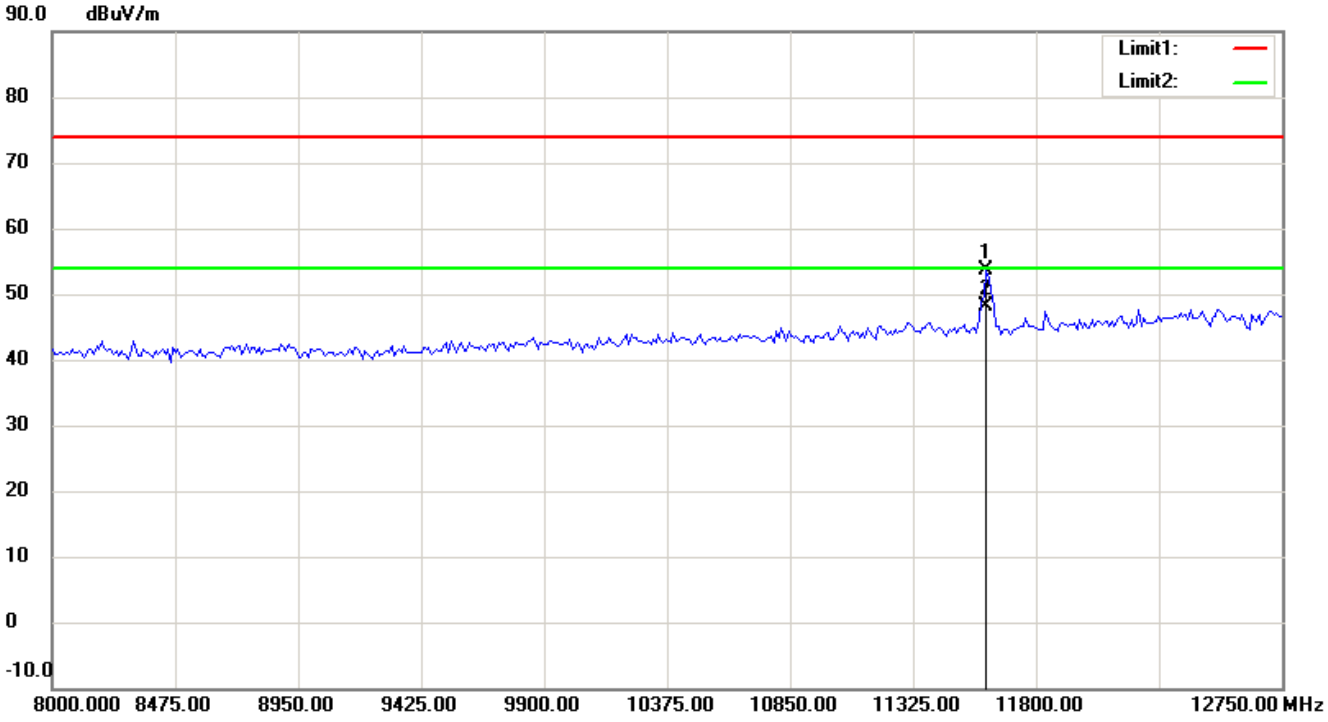
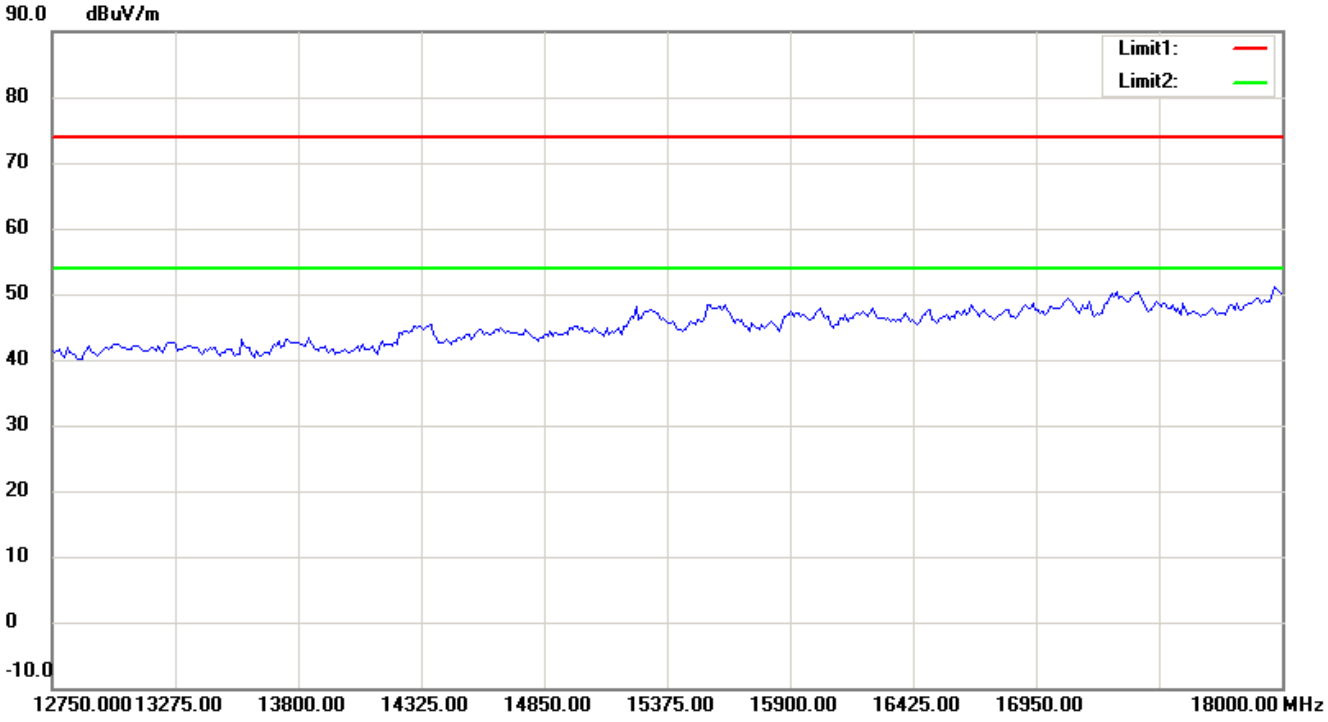
Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N





Up Line: Peak Limit Line Down Line: Ave Limit Line
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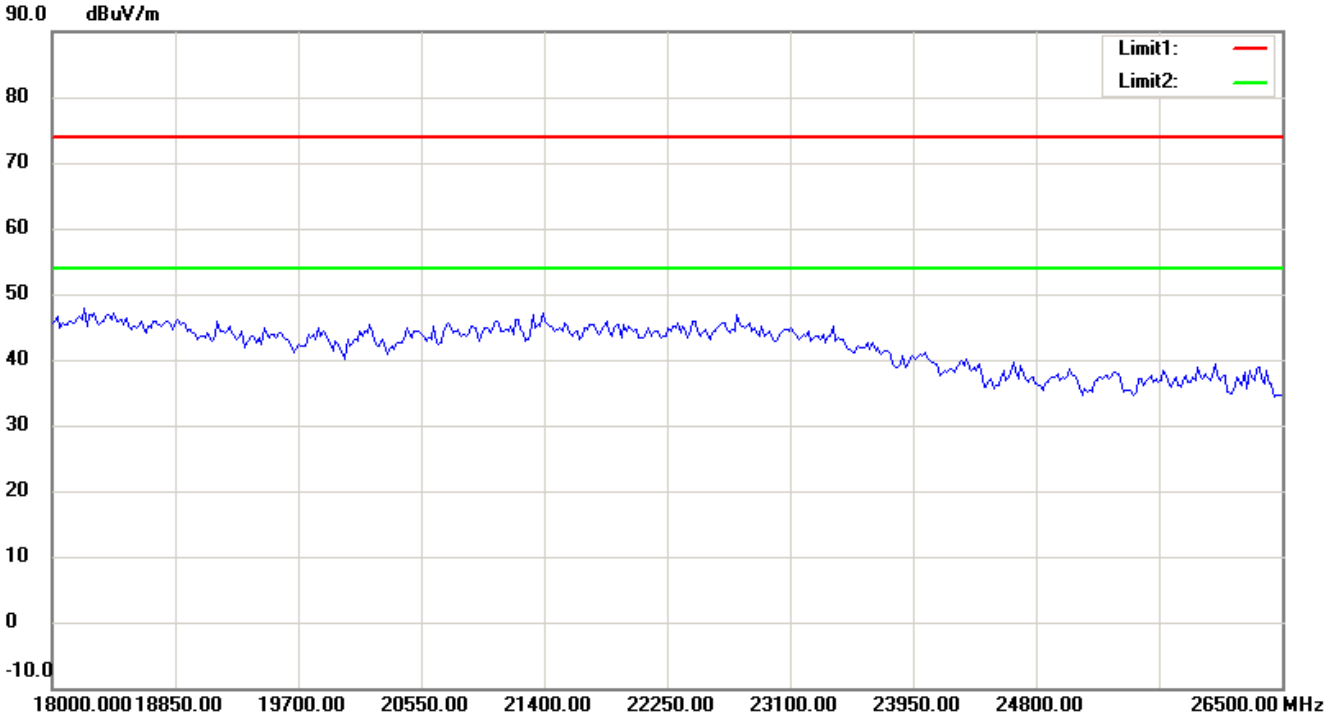
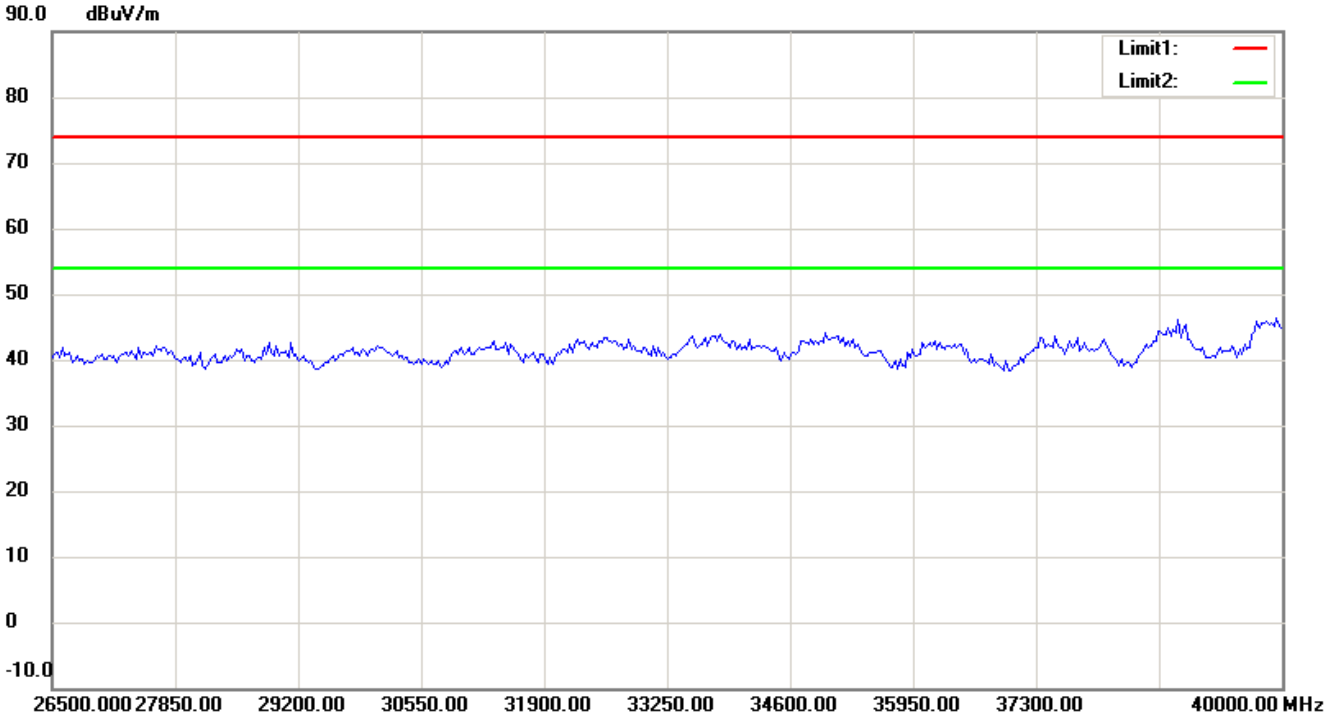
Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N





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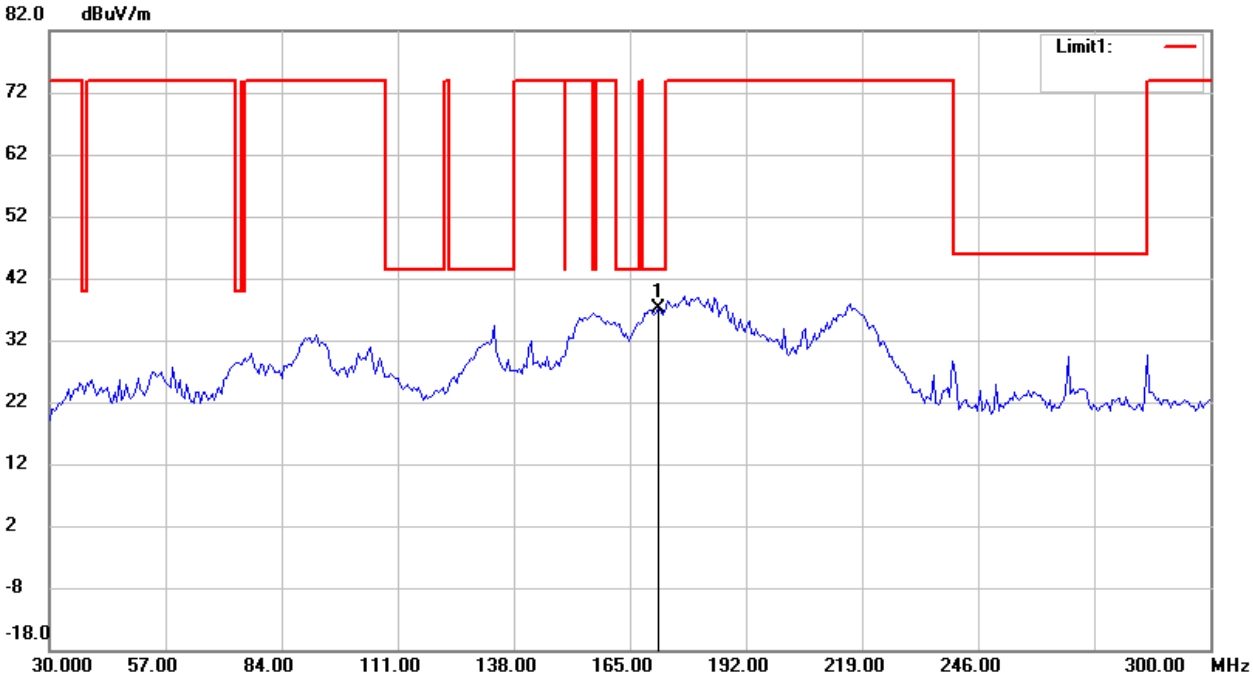
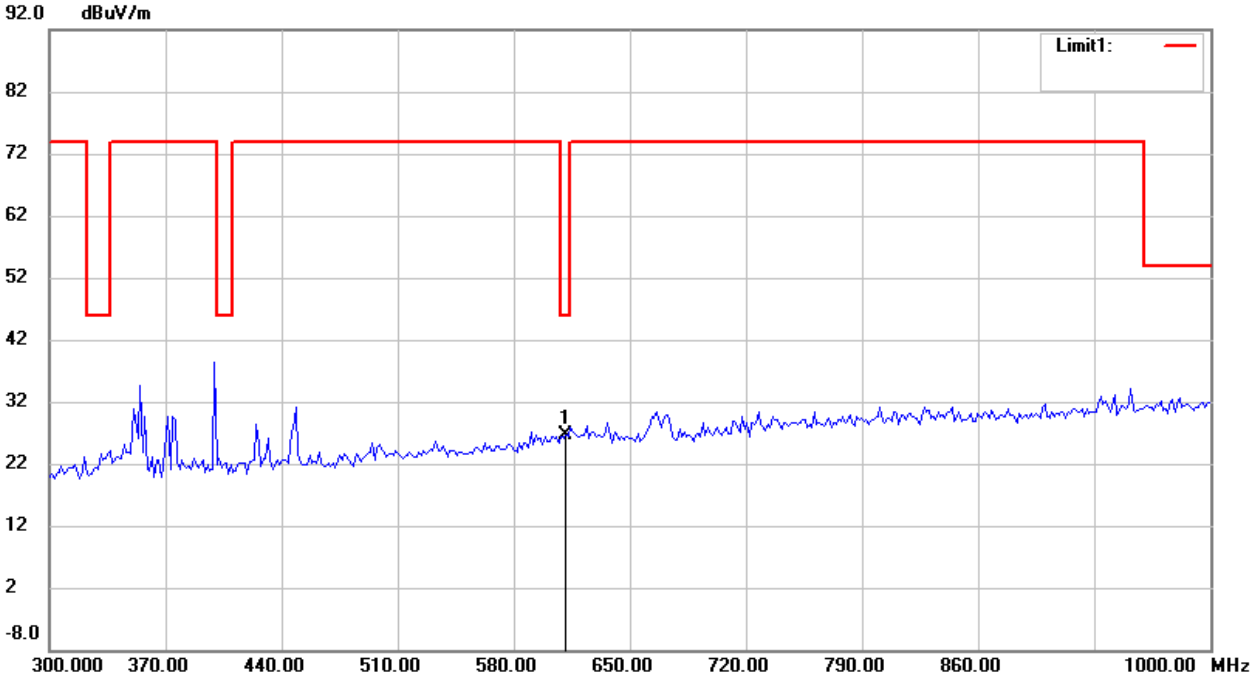
Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N

Spurious Emissions radiated-Dipole antenna
802.11a_CH149
Antenna Polarization H





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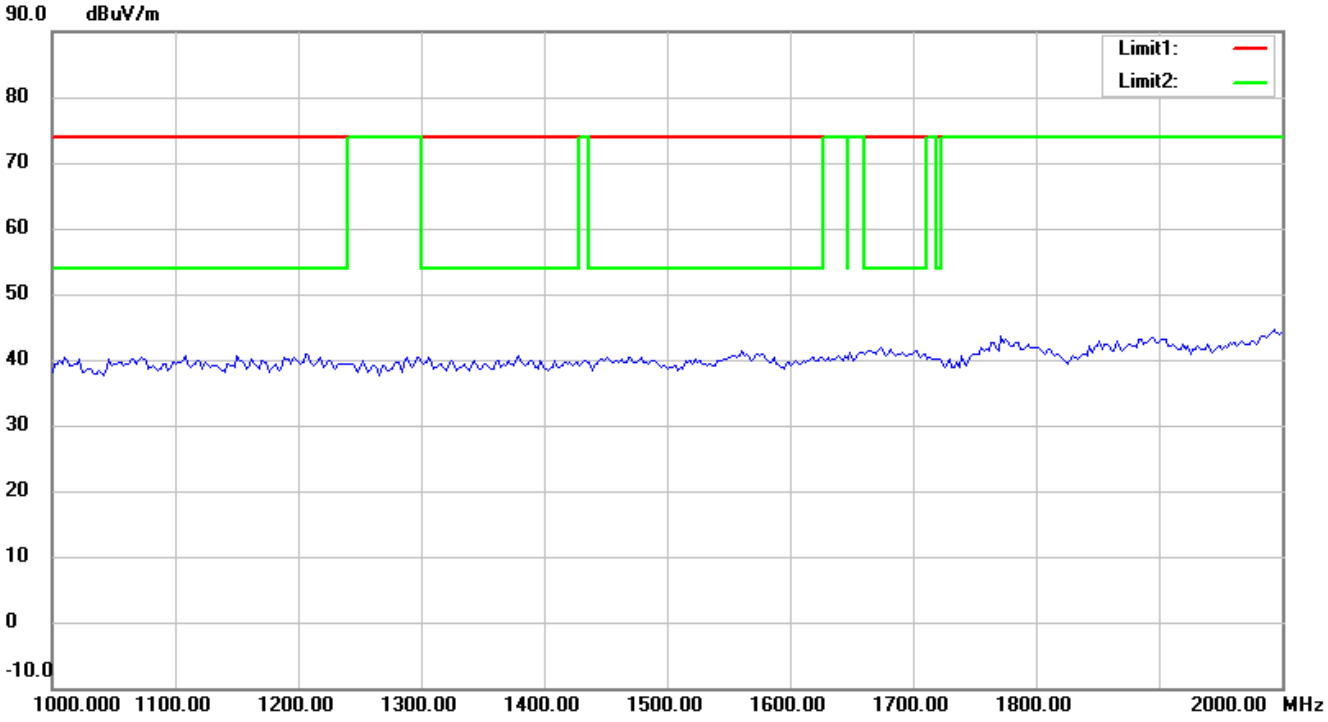
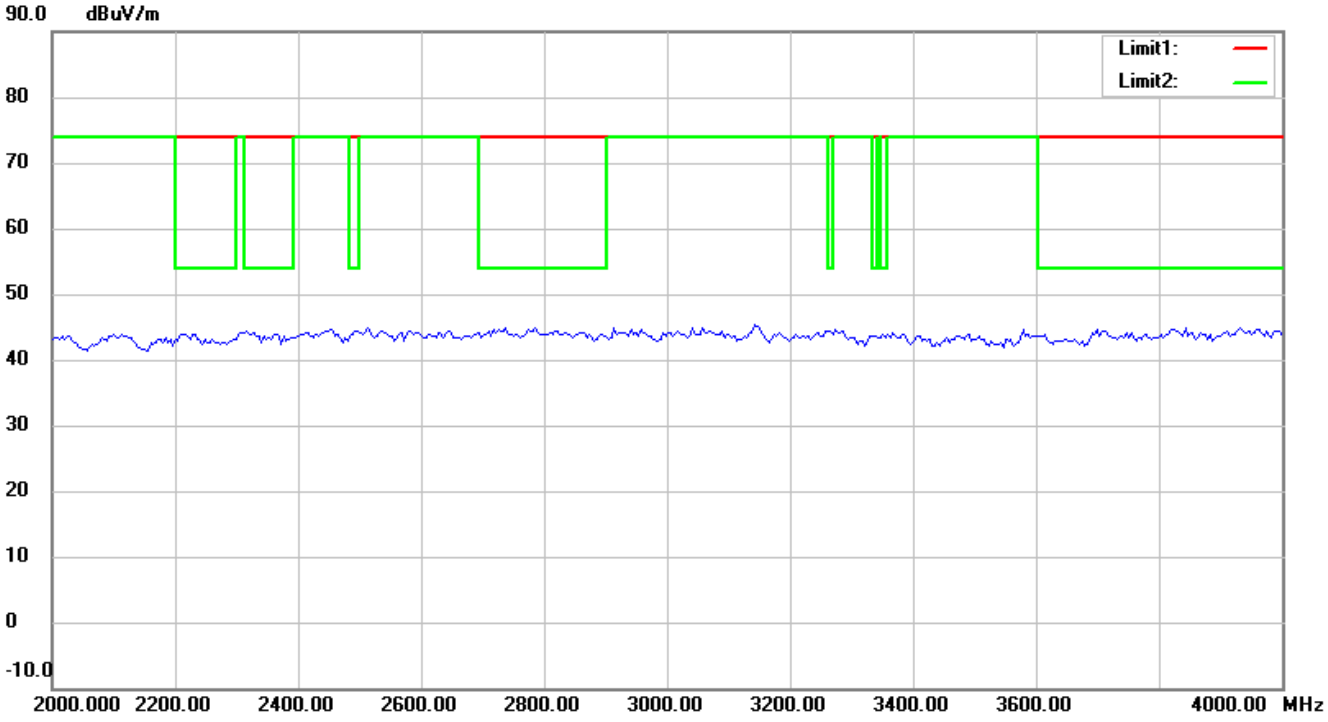
Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N





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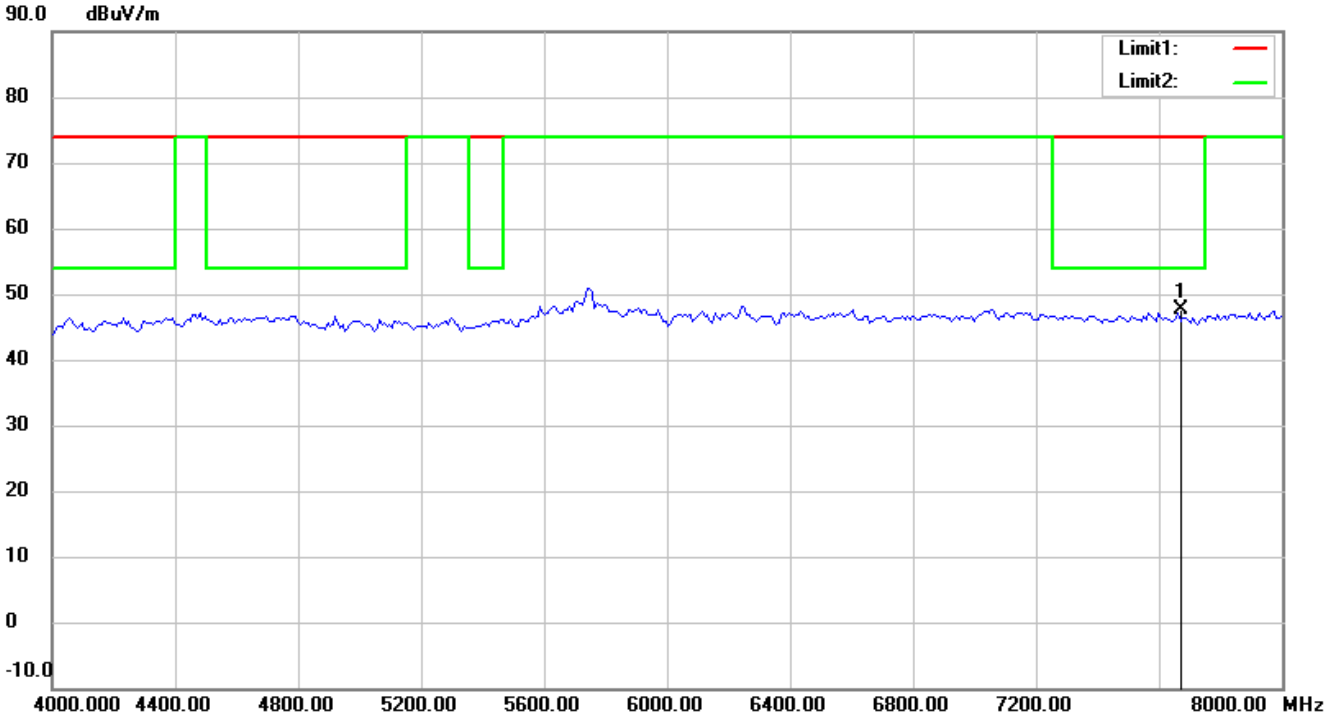
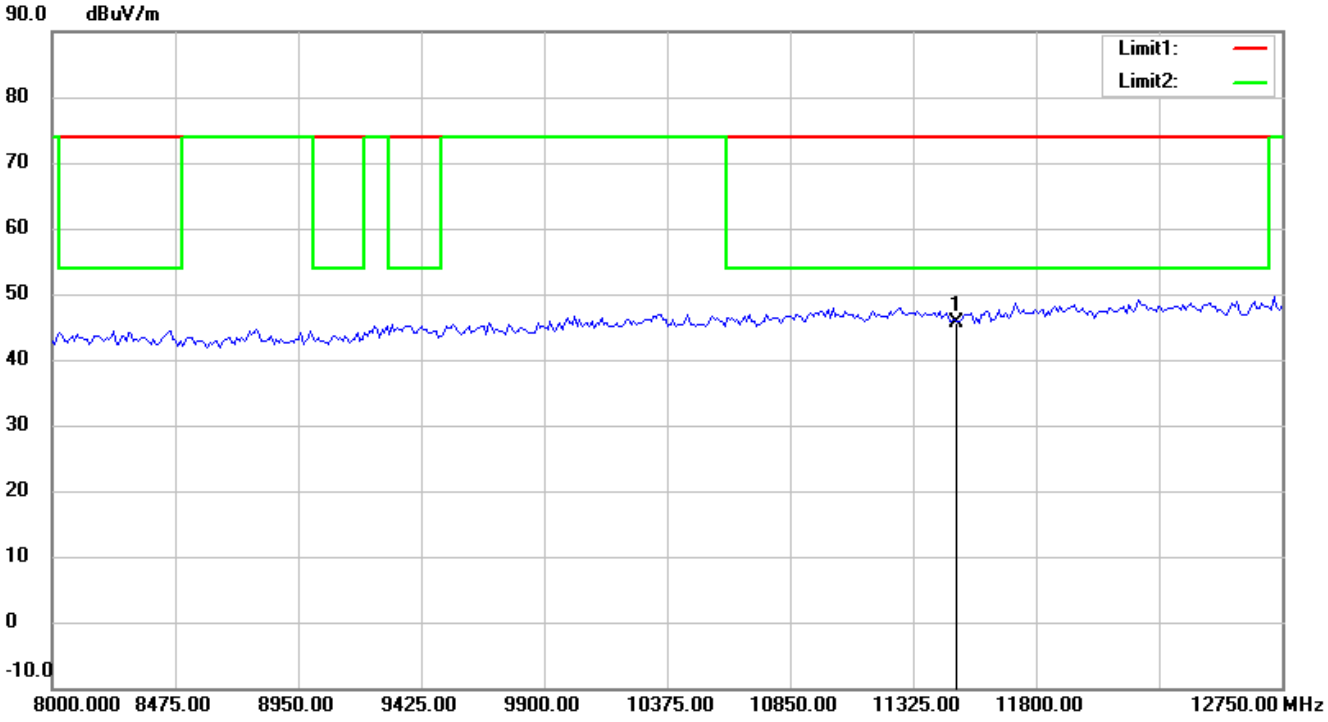
FCC ID: ODMAM5N





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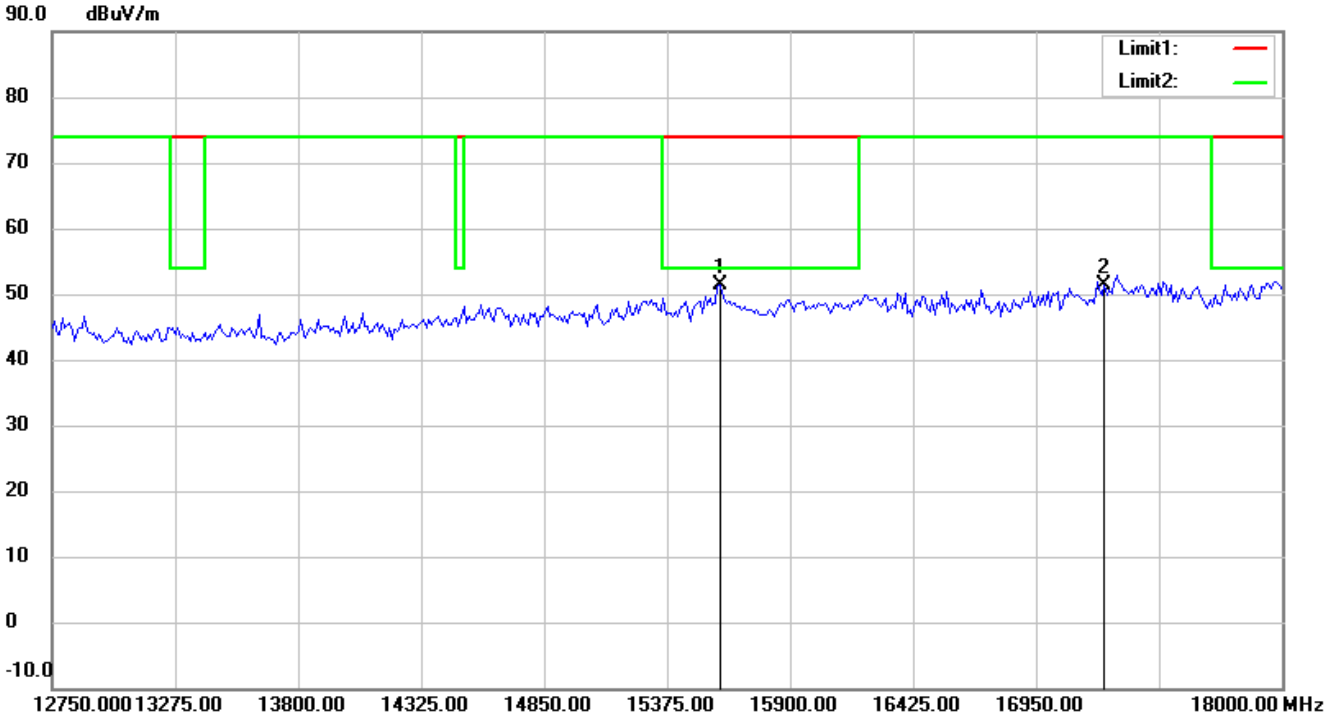

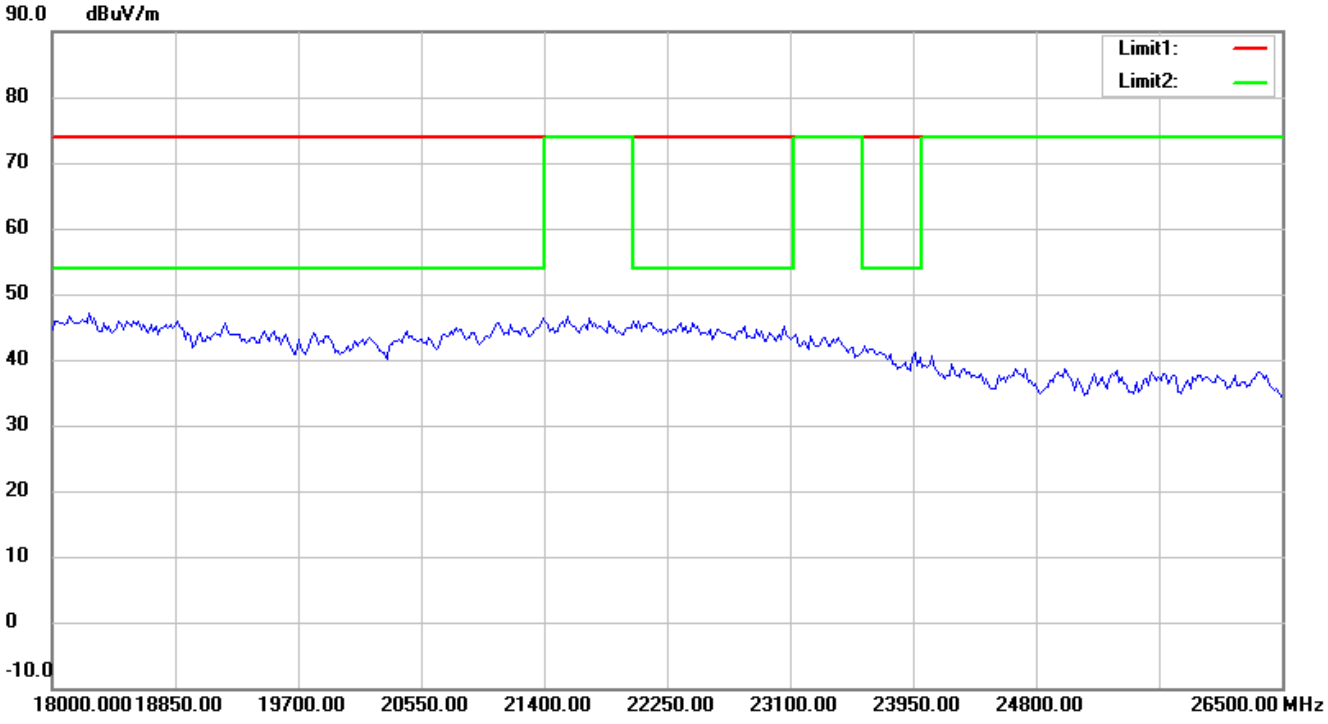

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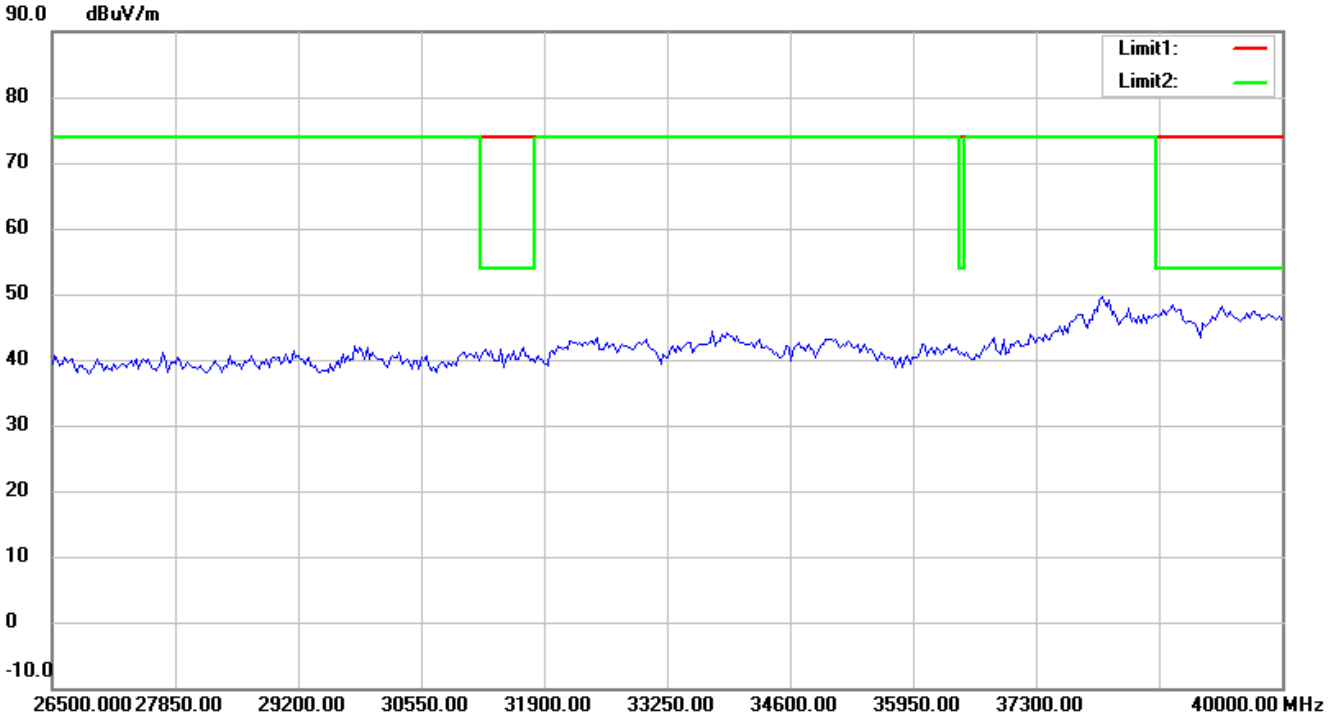
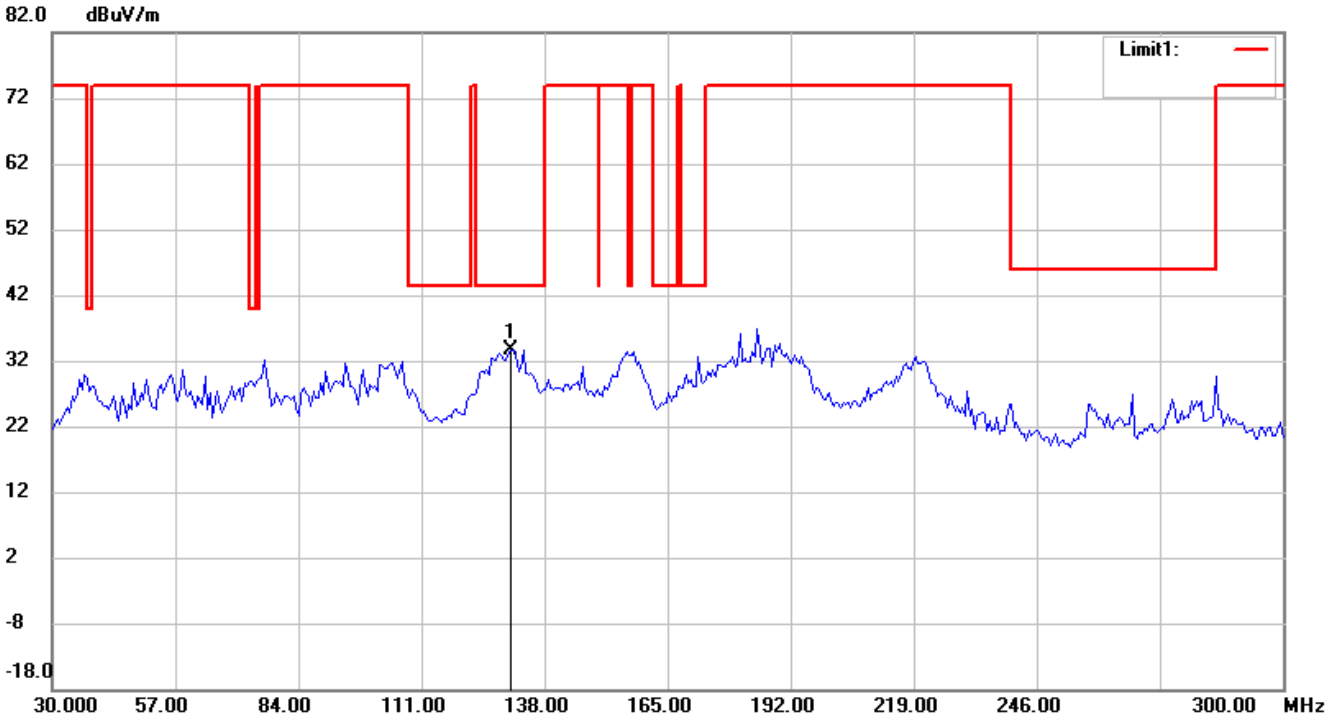


Antenna Polarization V



Up Line: Peak Limit Line Down Line: Ave Limit Line
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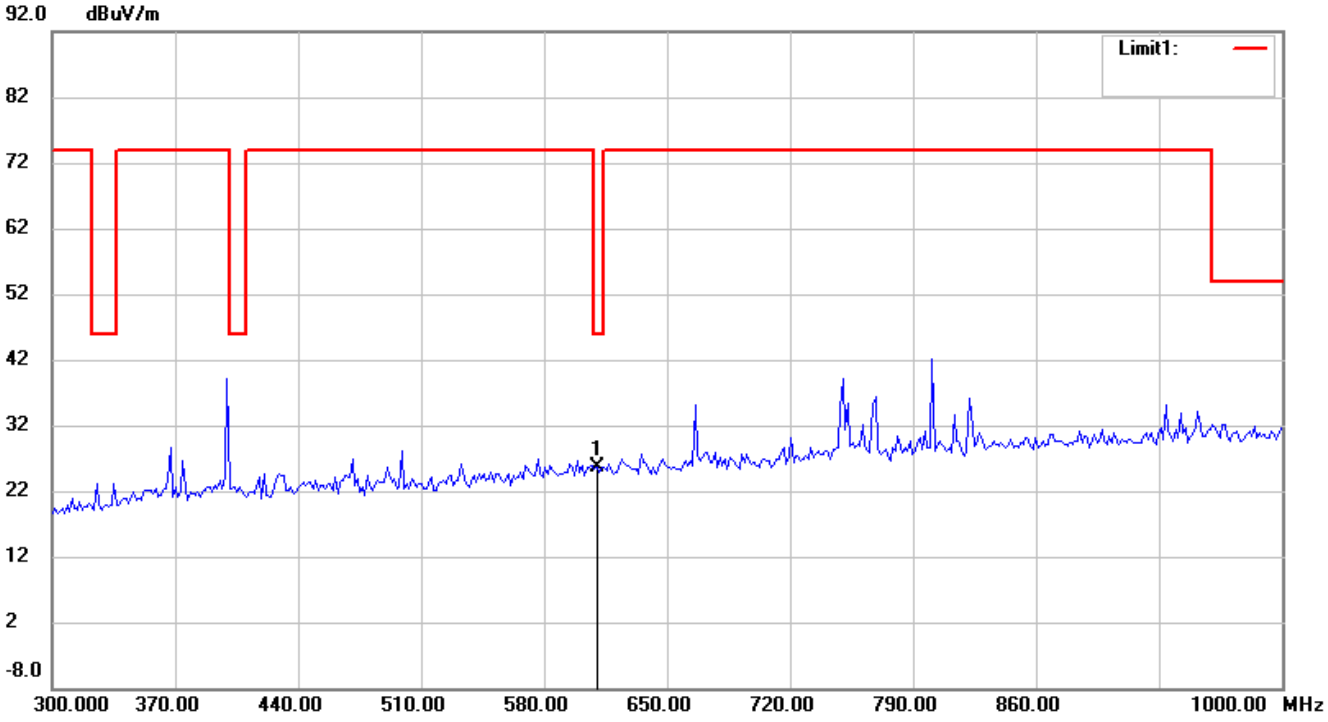

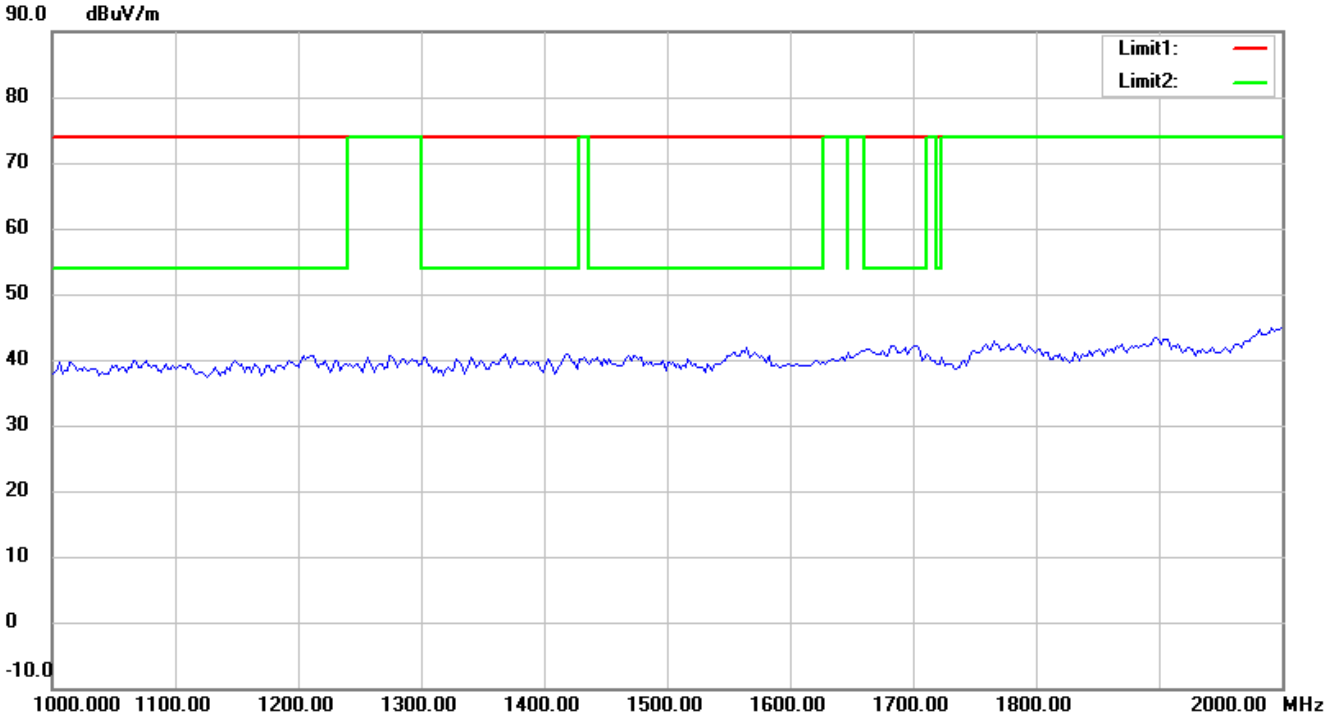

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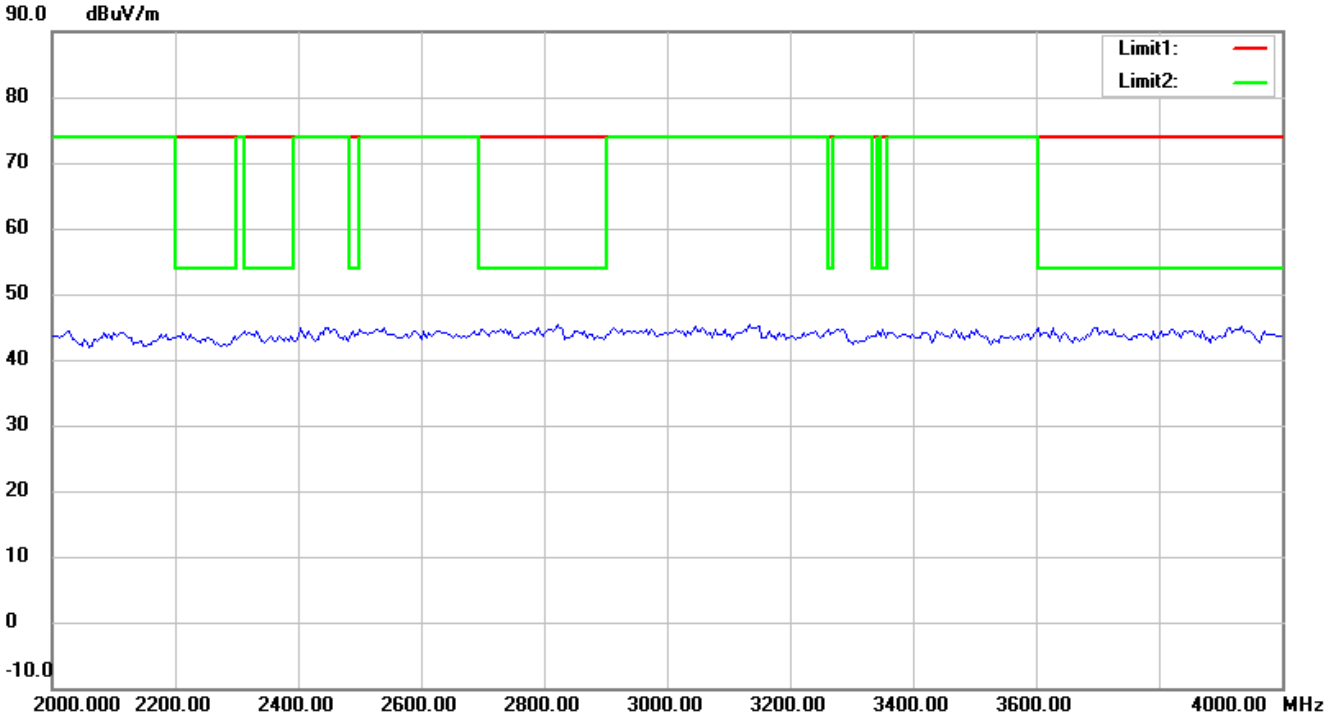

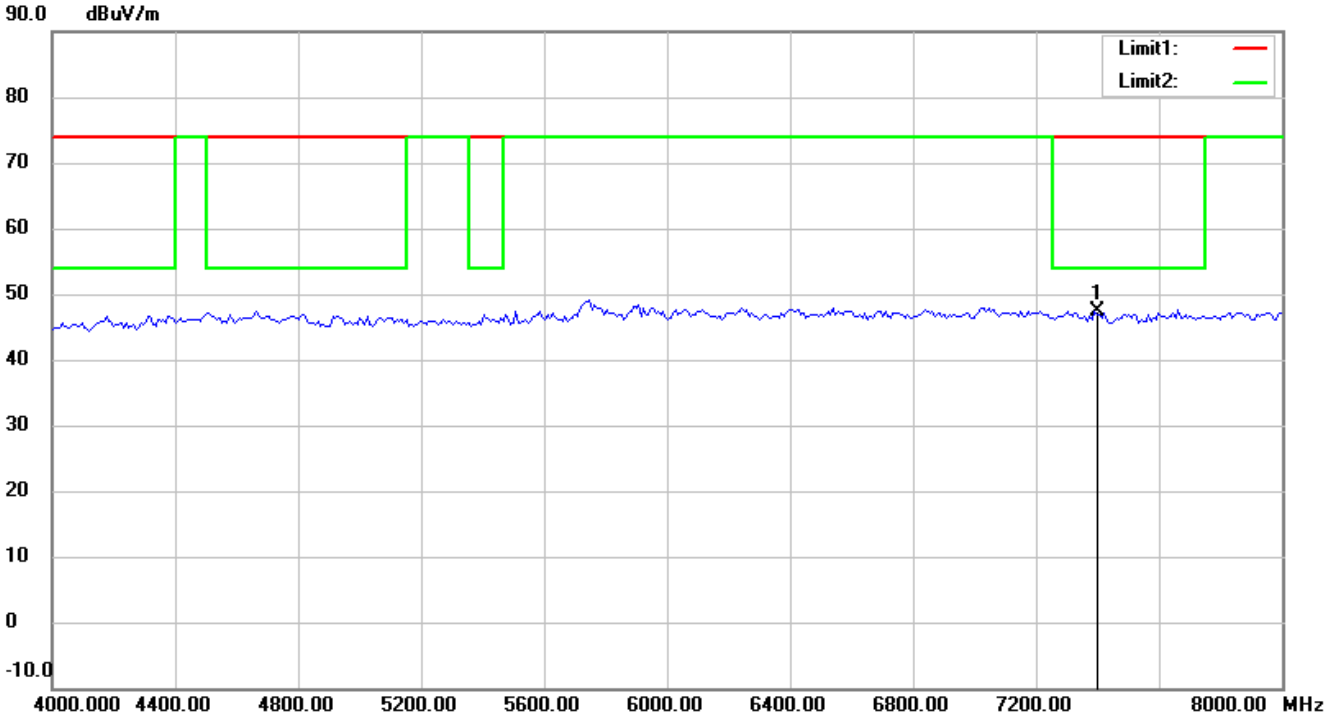

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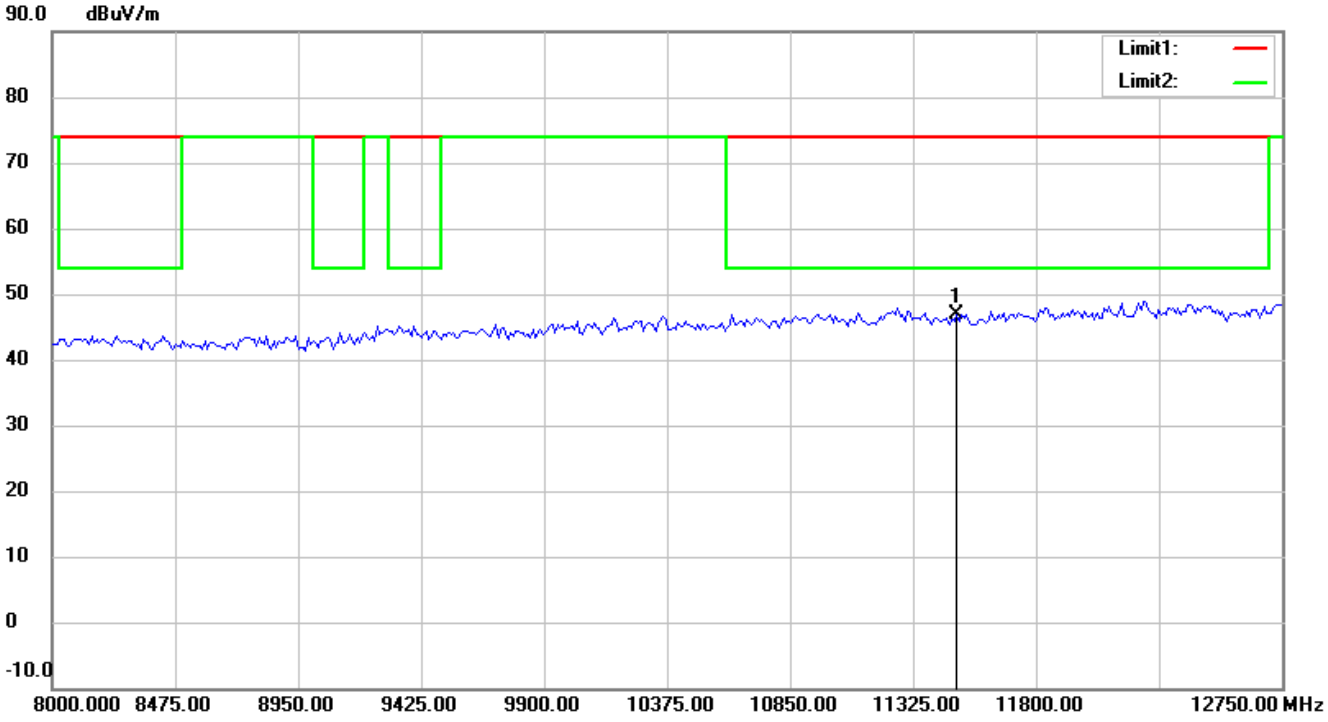

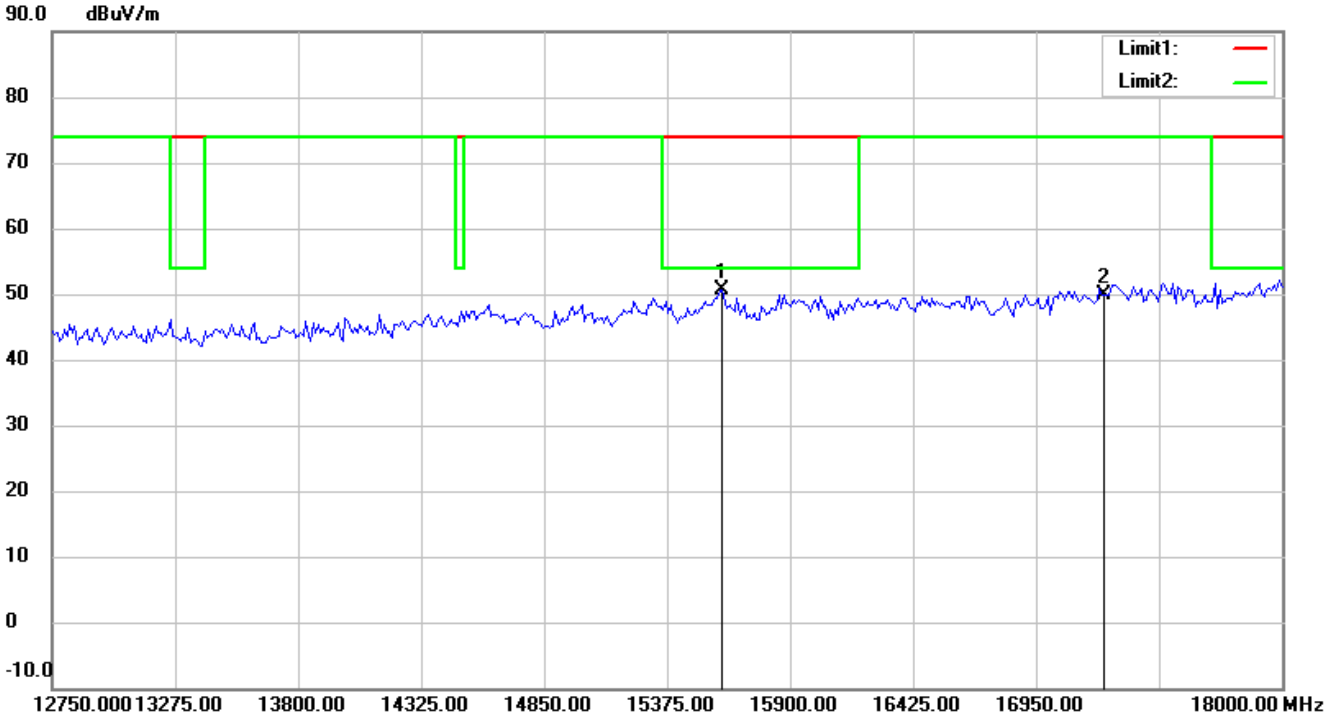

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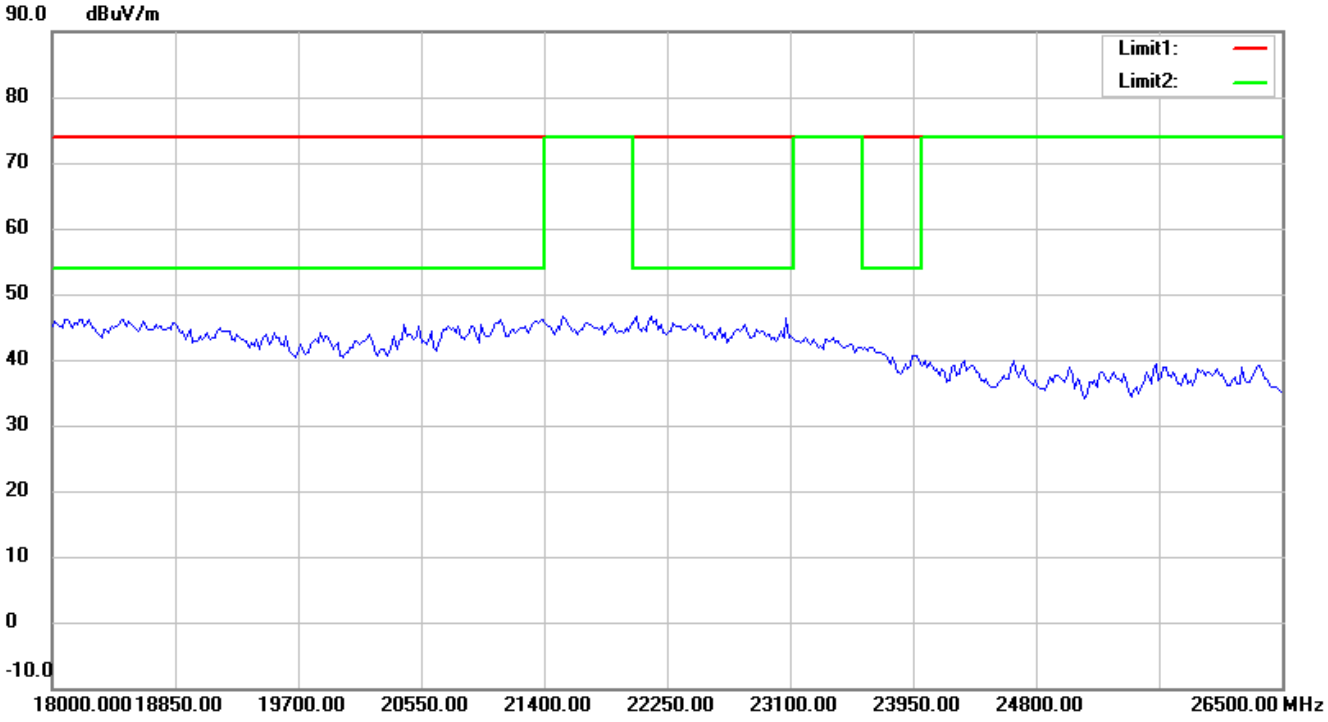

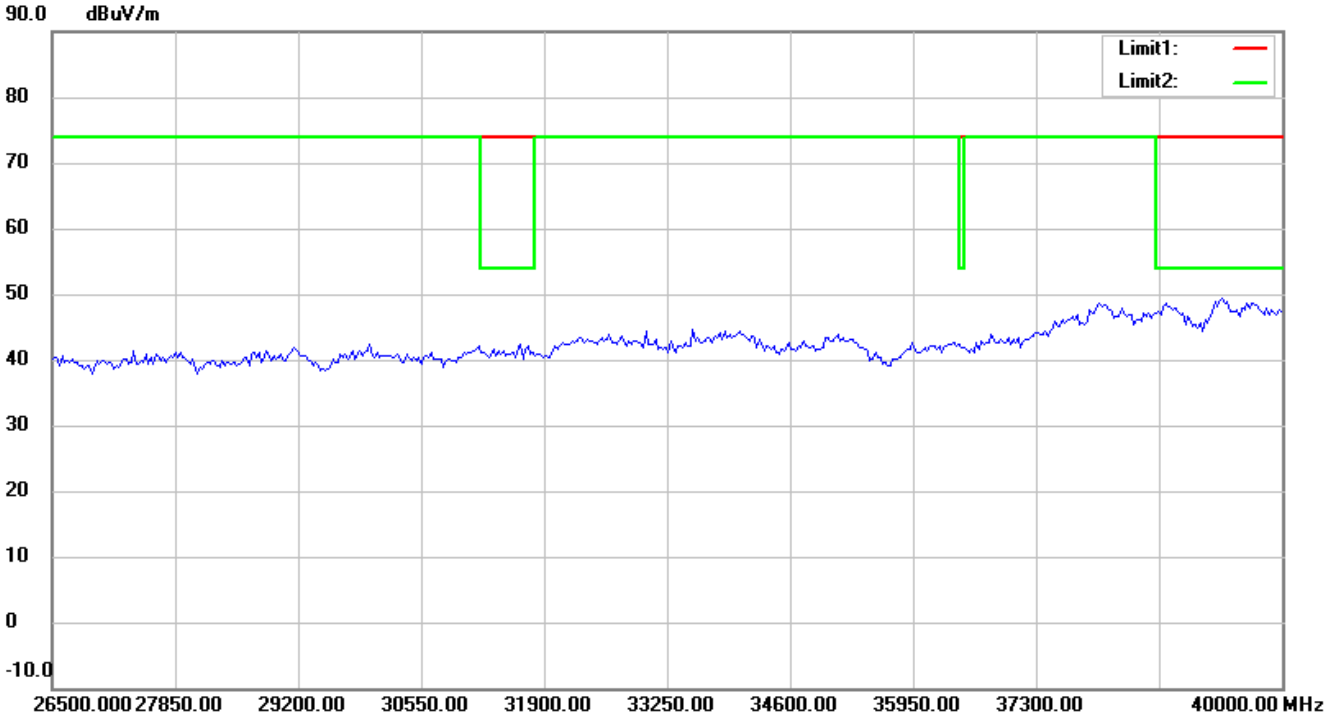

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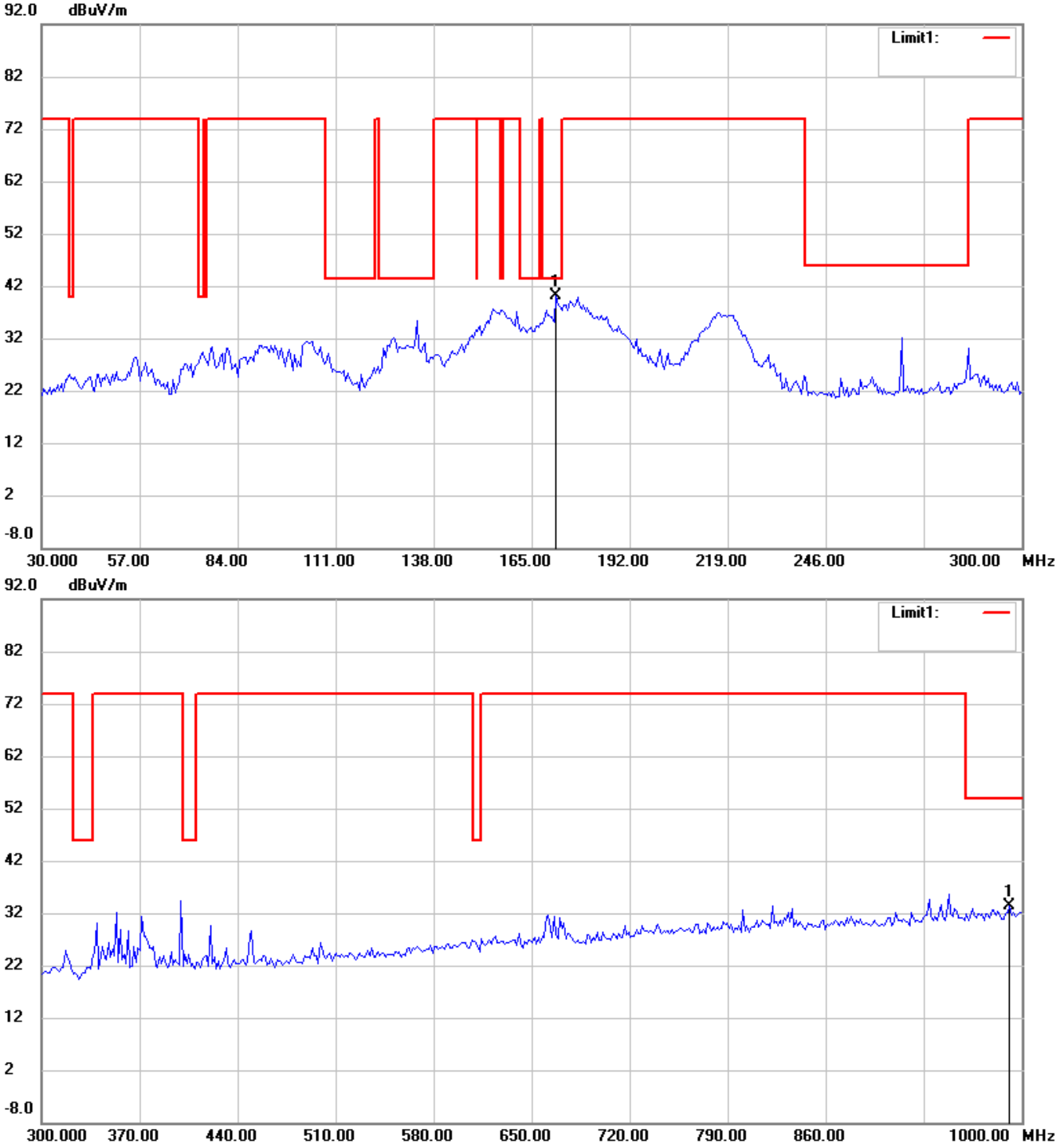
Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N

802.11a_CH157
Antenna Polarization H



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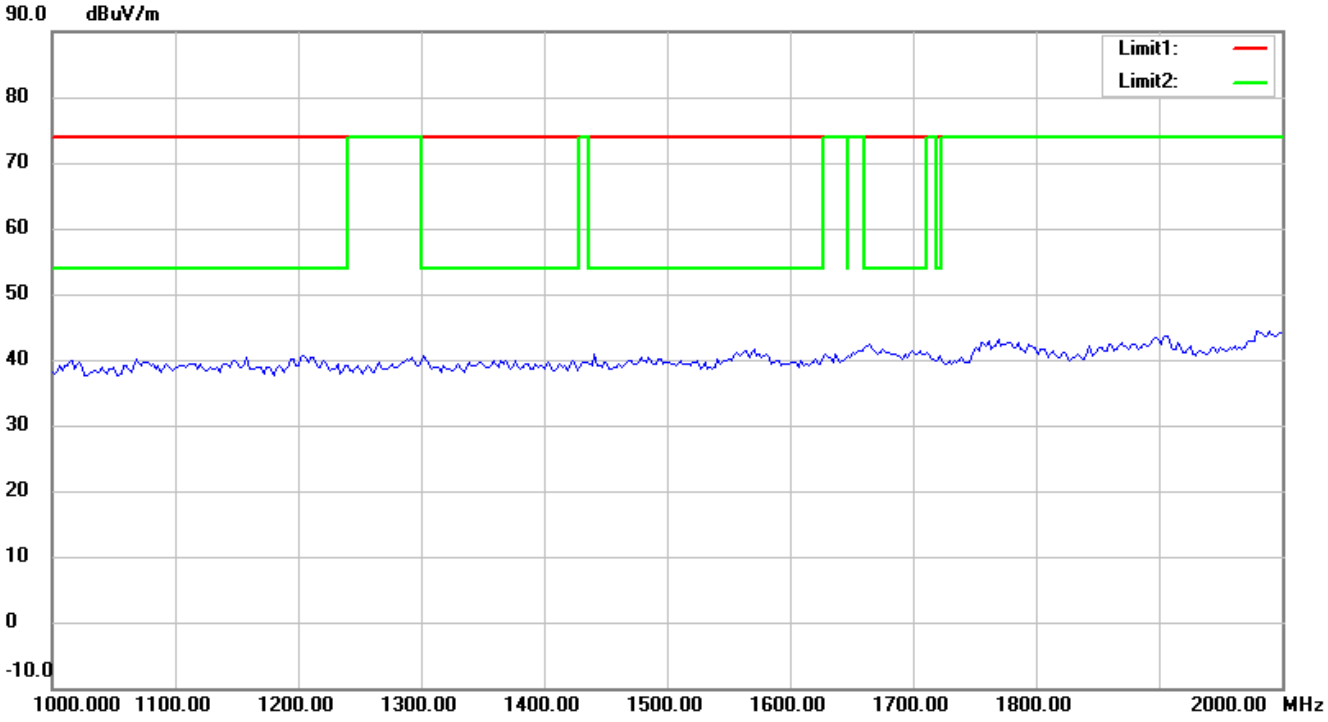
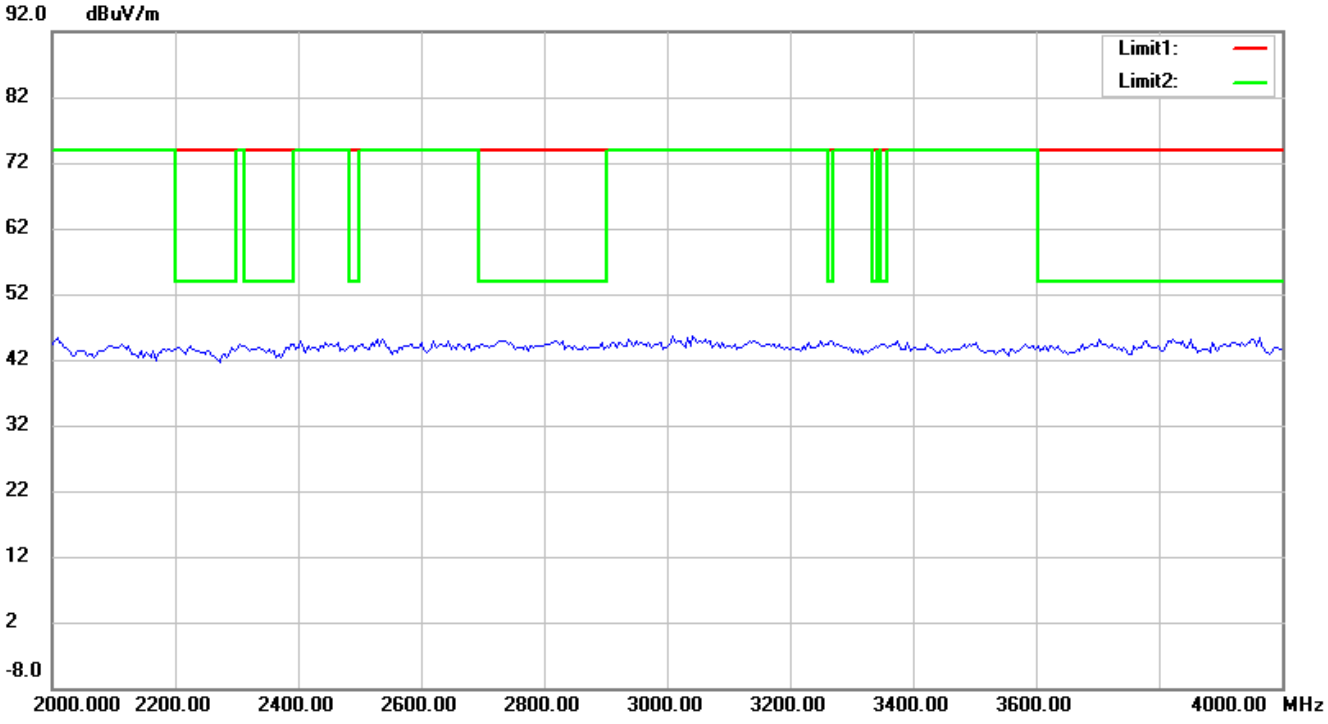
FCC ID: ODMAM5N





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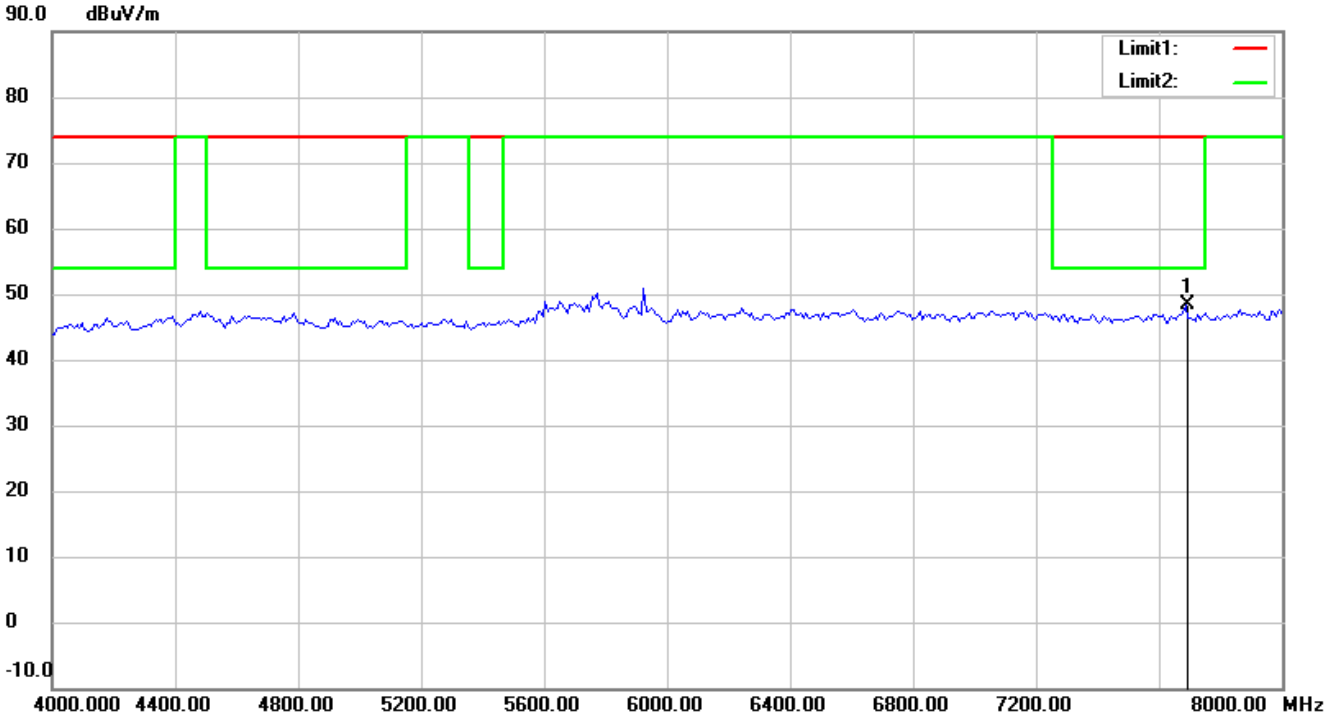
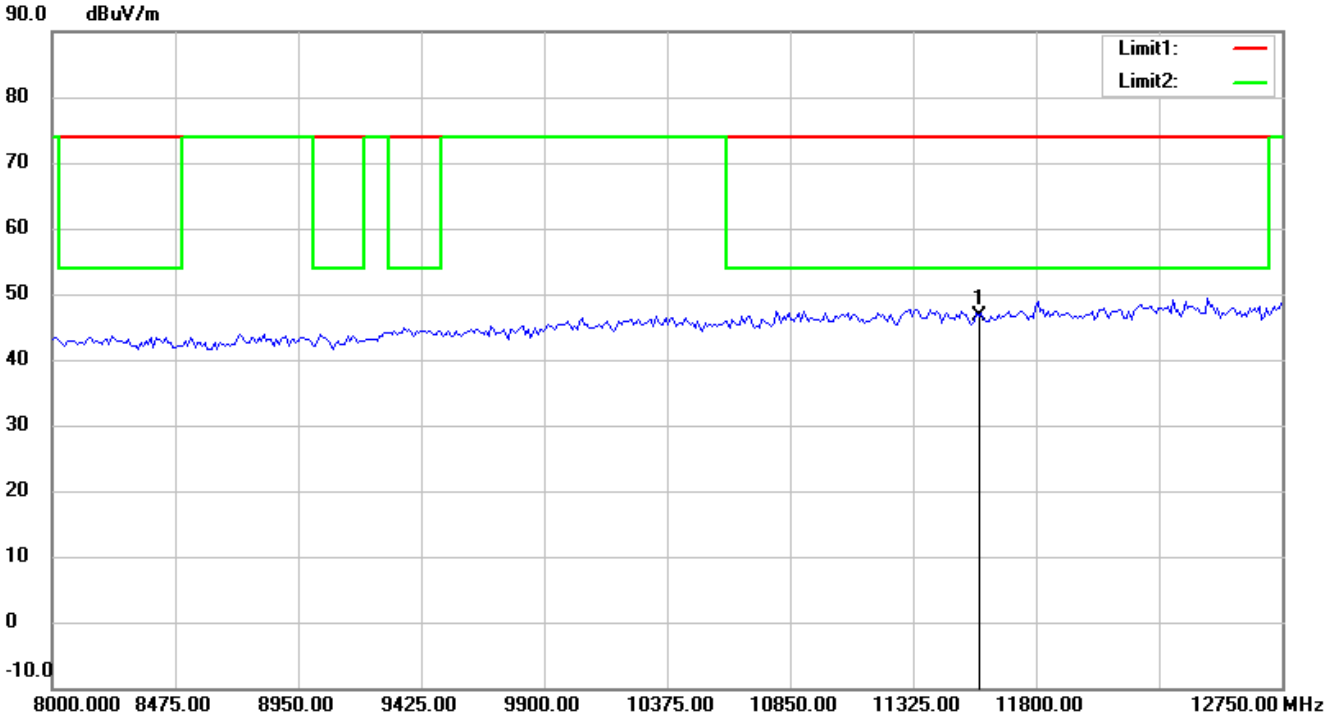
FCC ID: ODMAM5N





Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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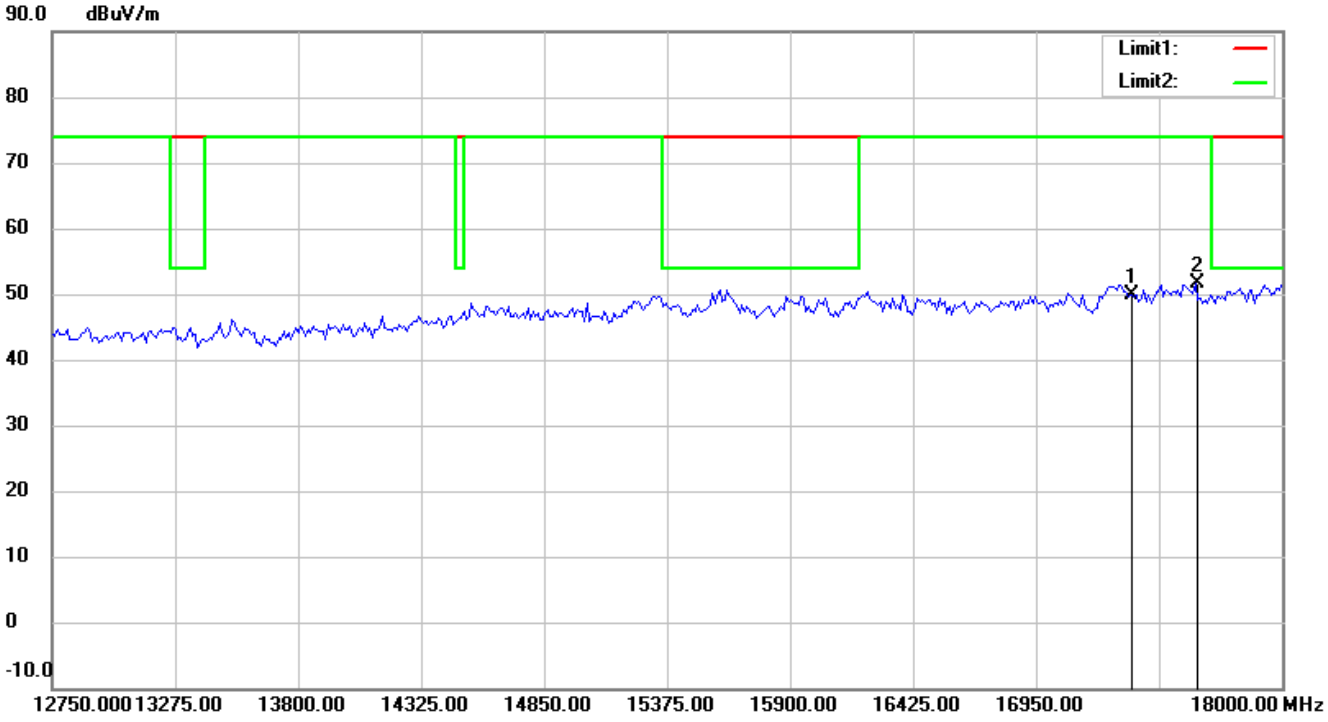
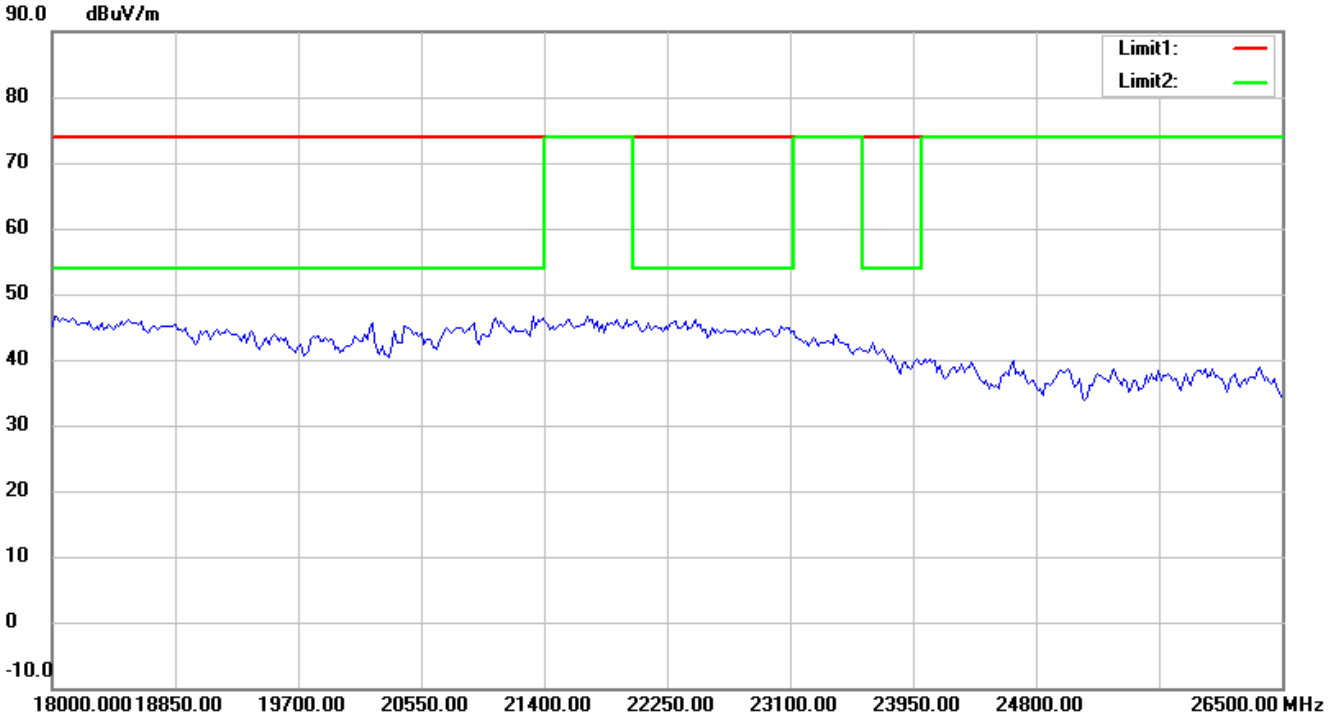
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N





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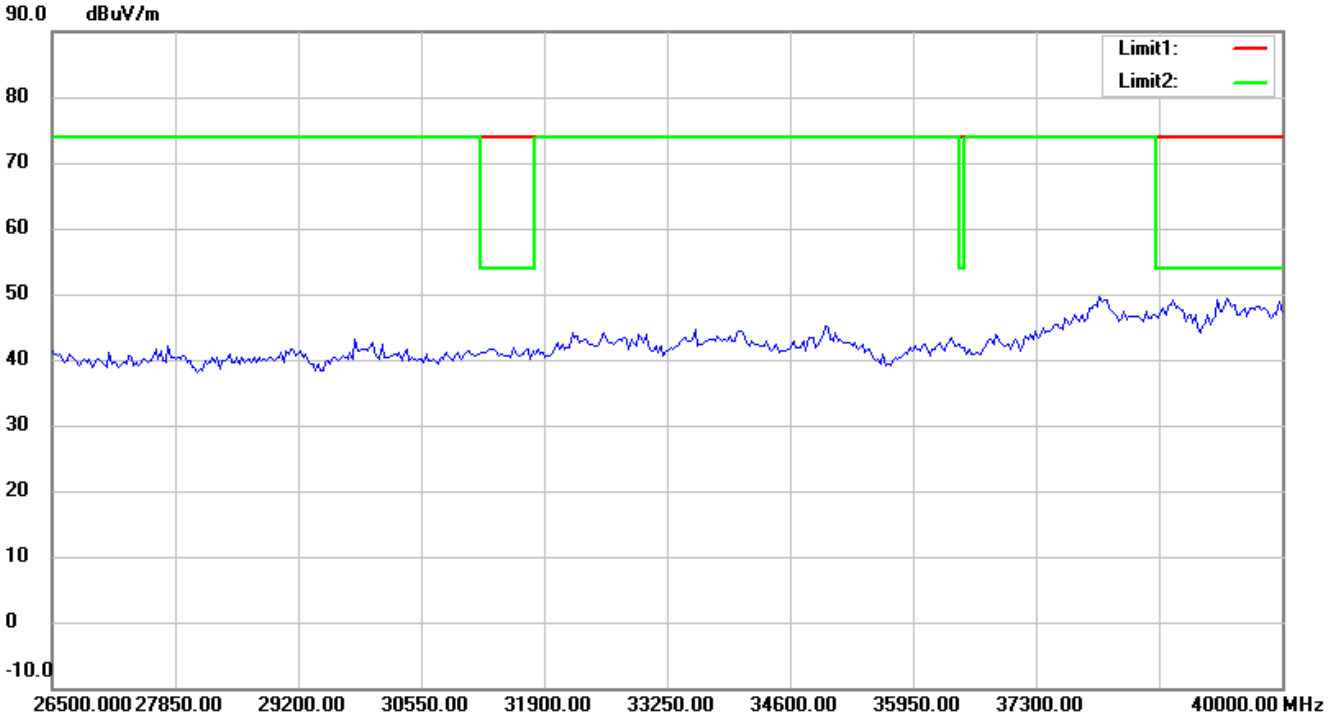
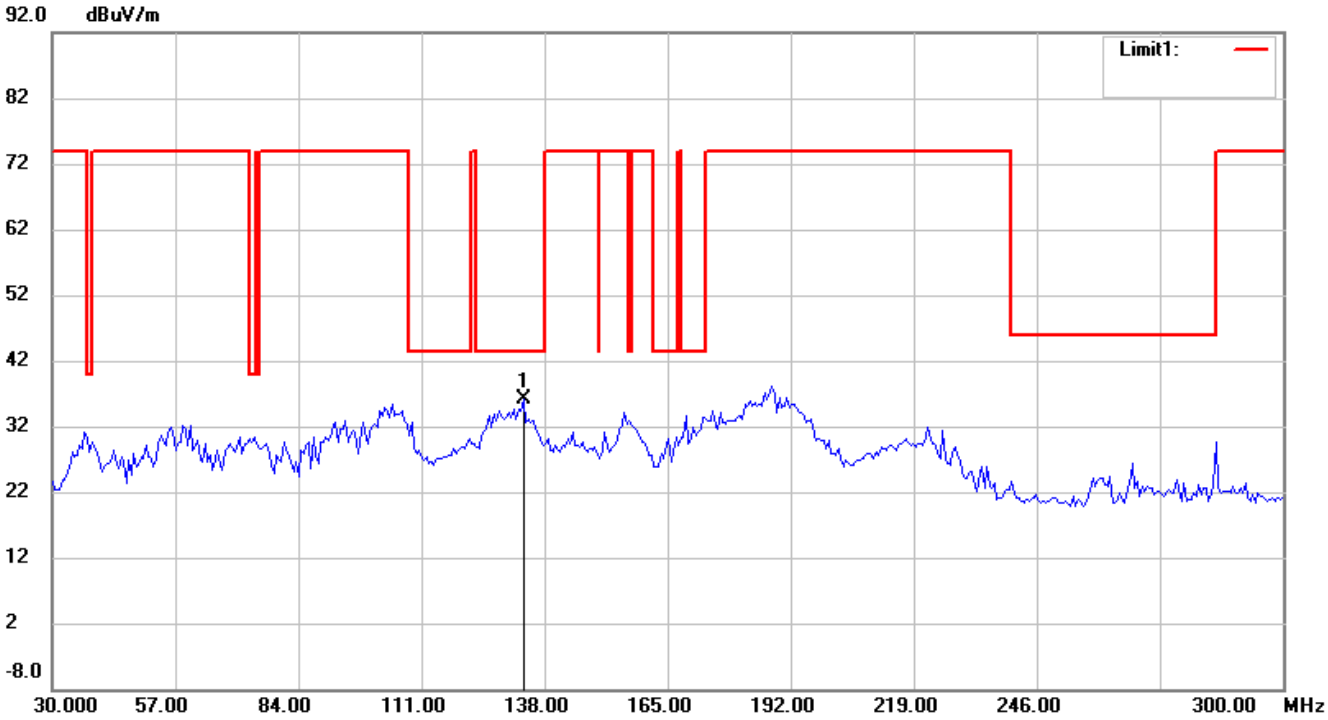


Antenna Polarization V



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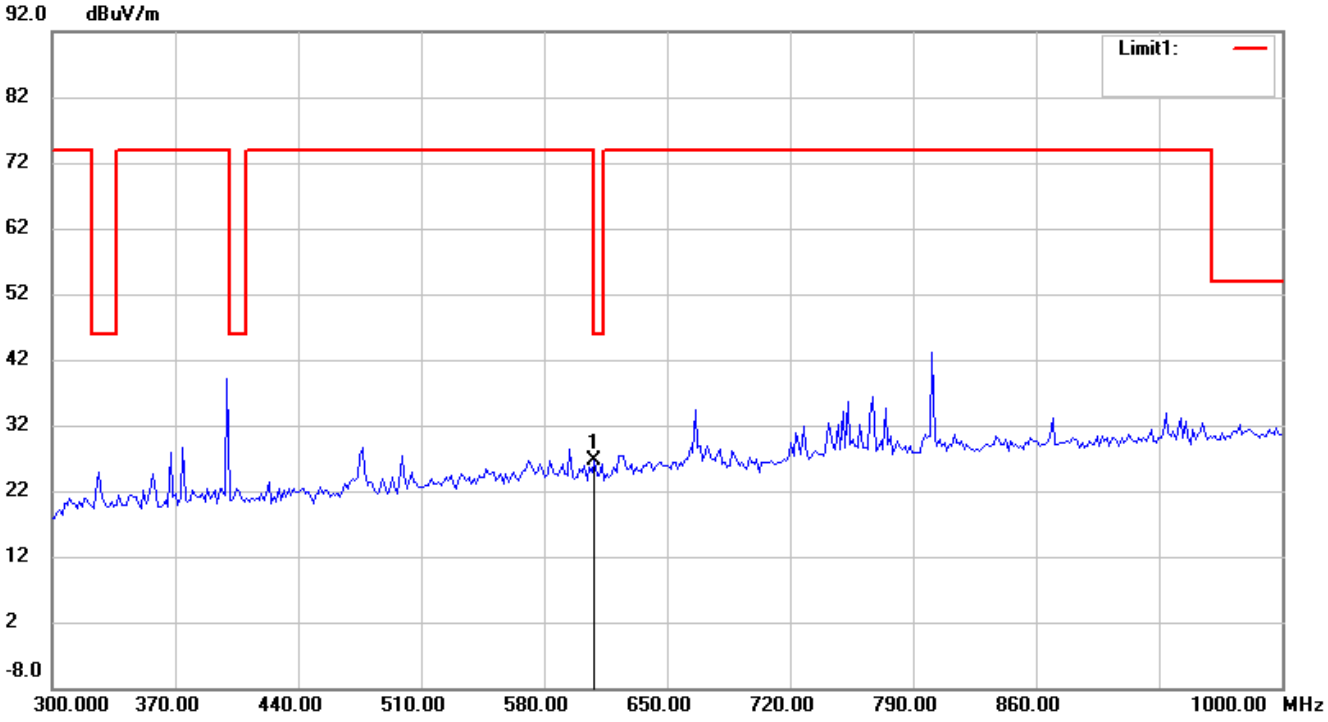

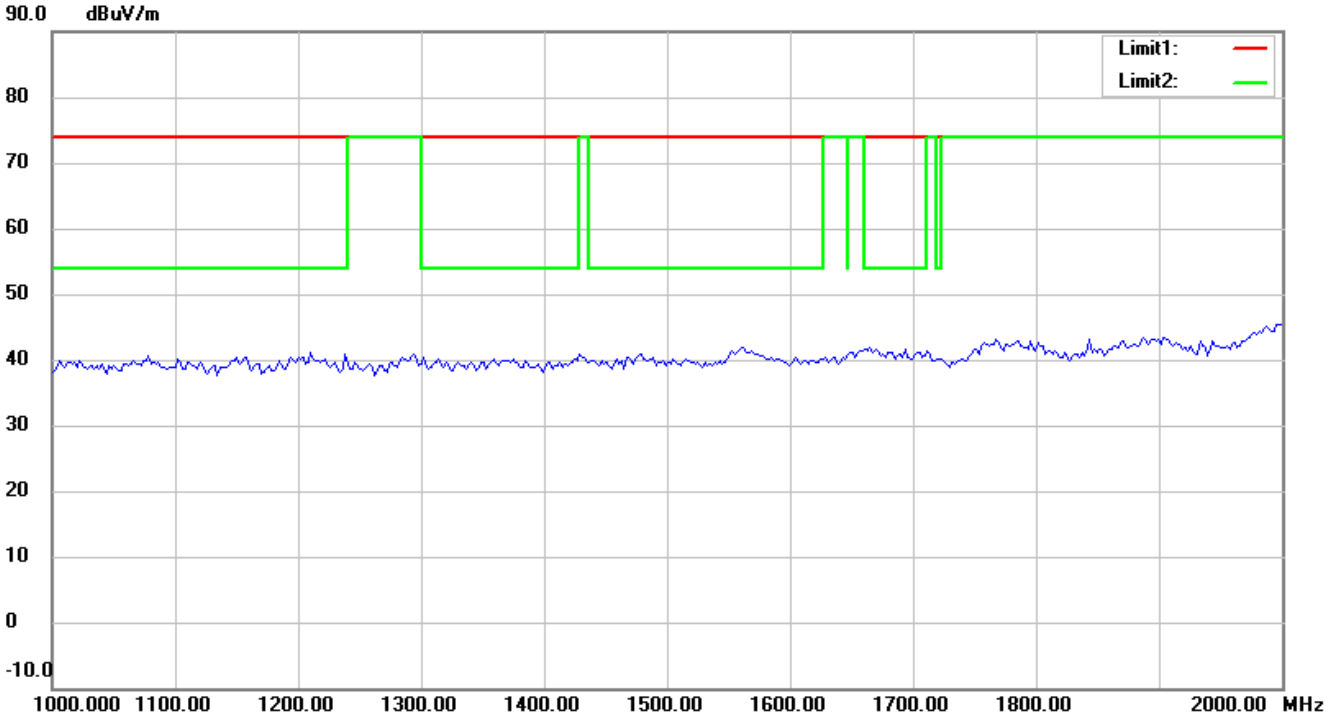

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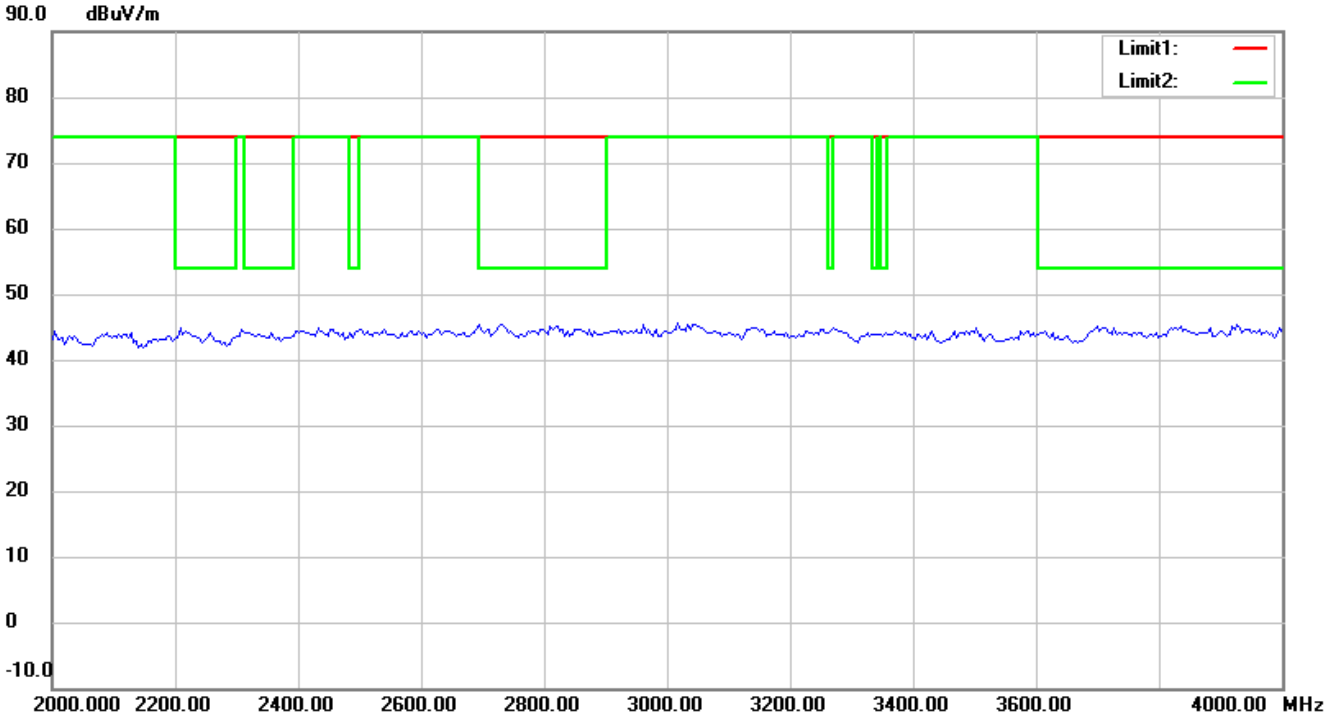

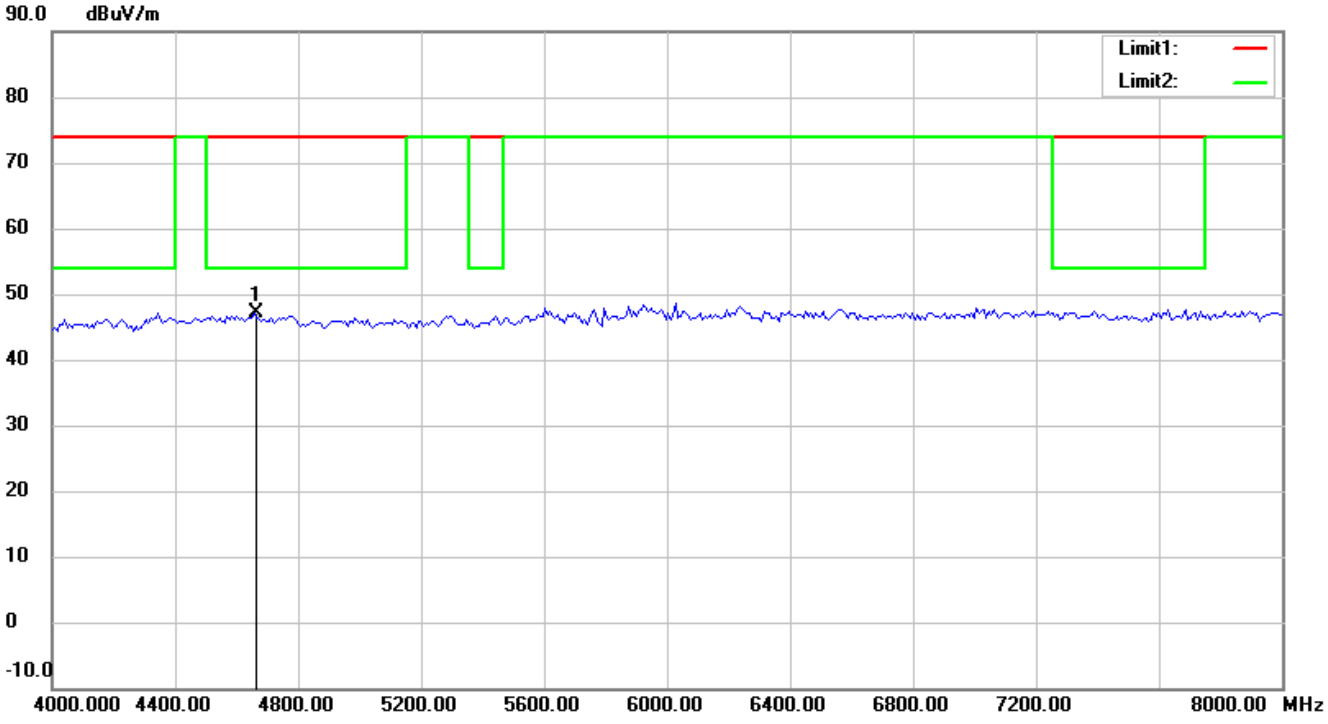

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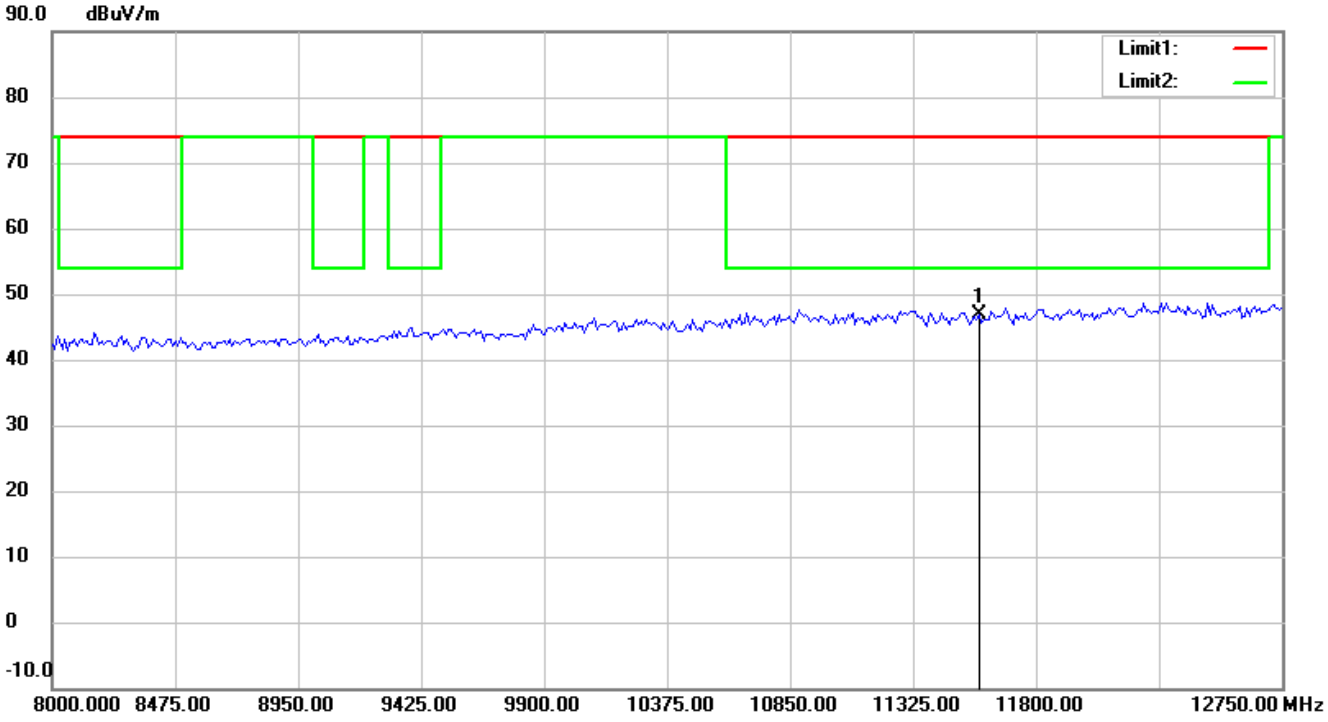

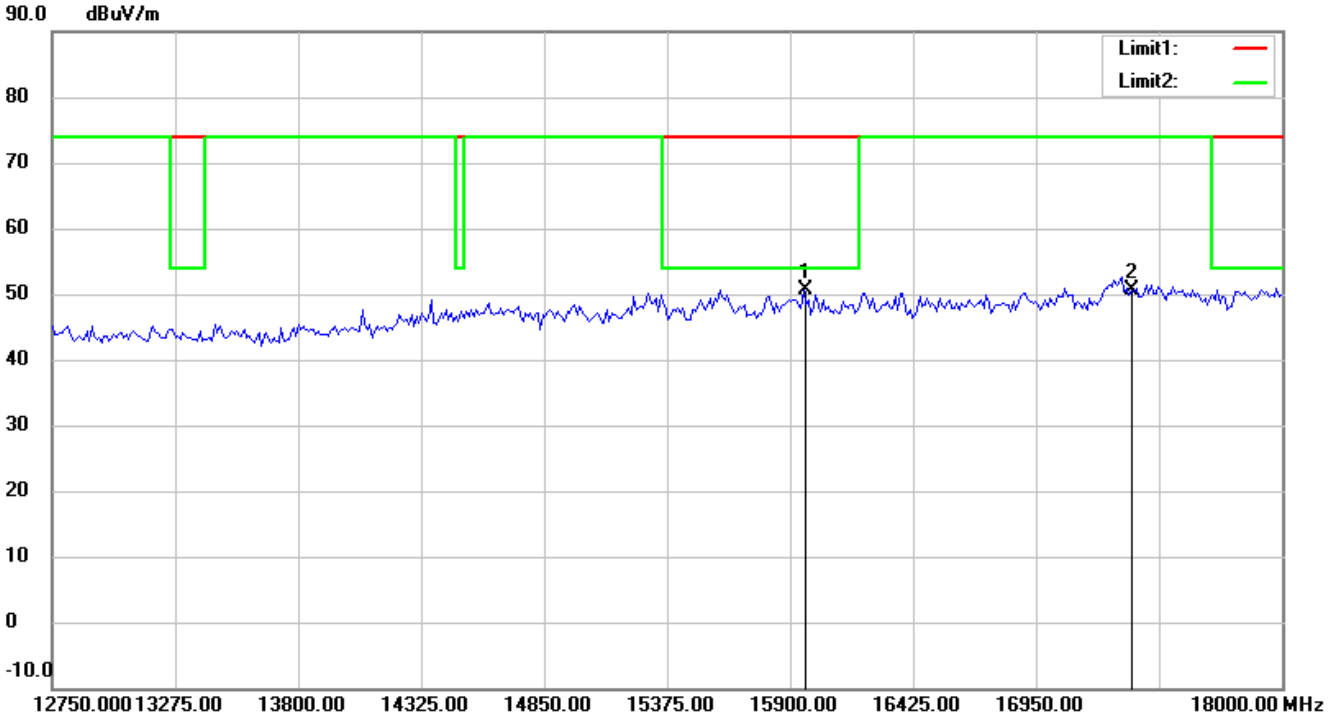

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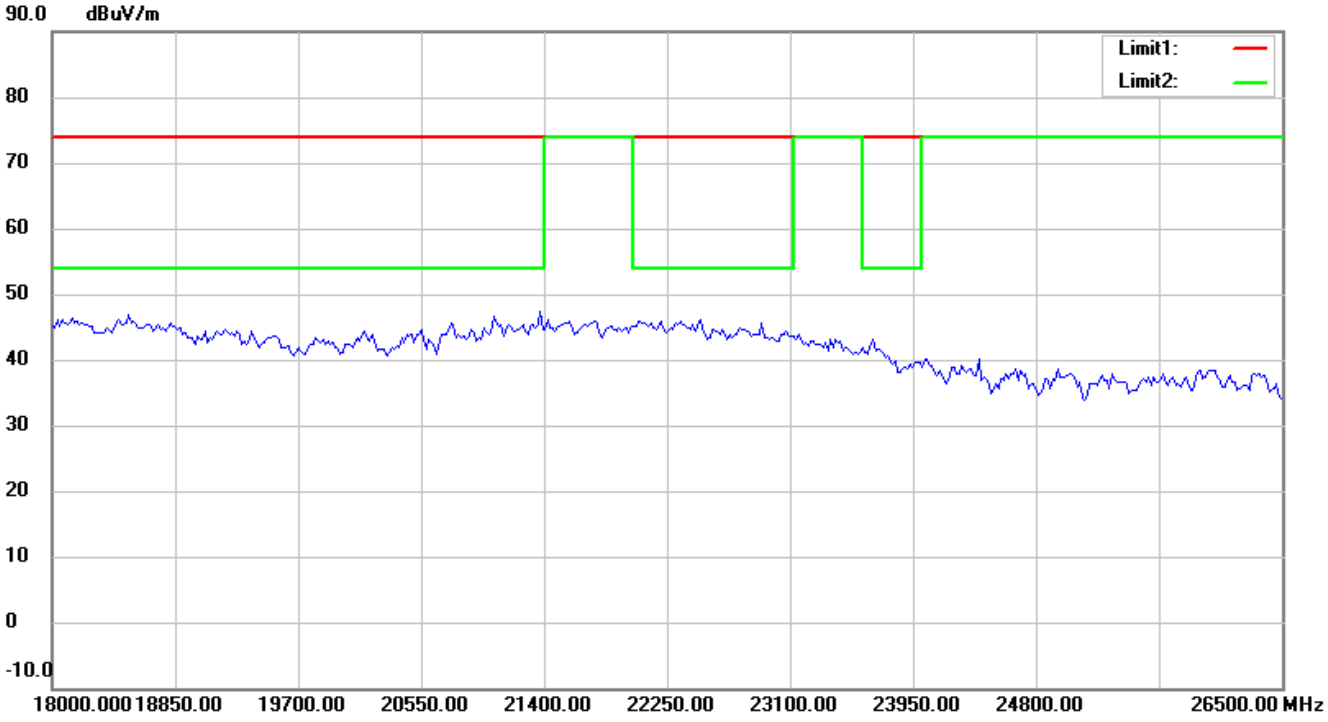

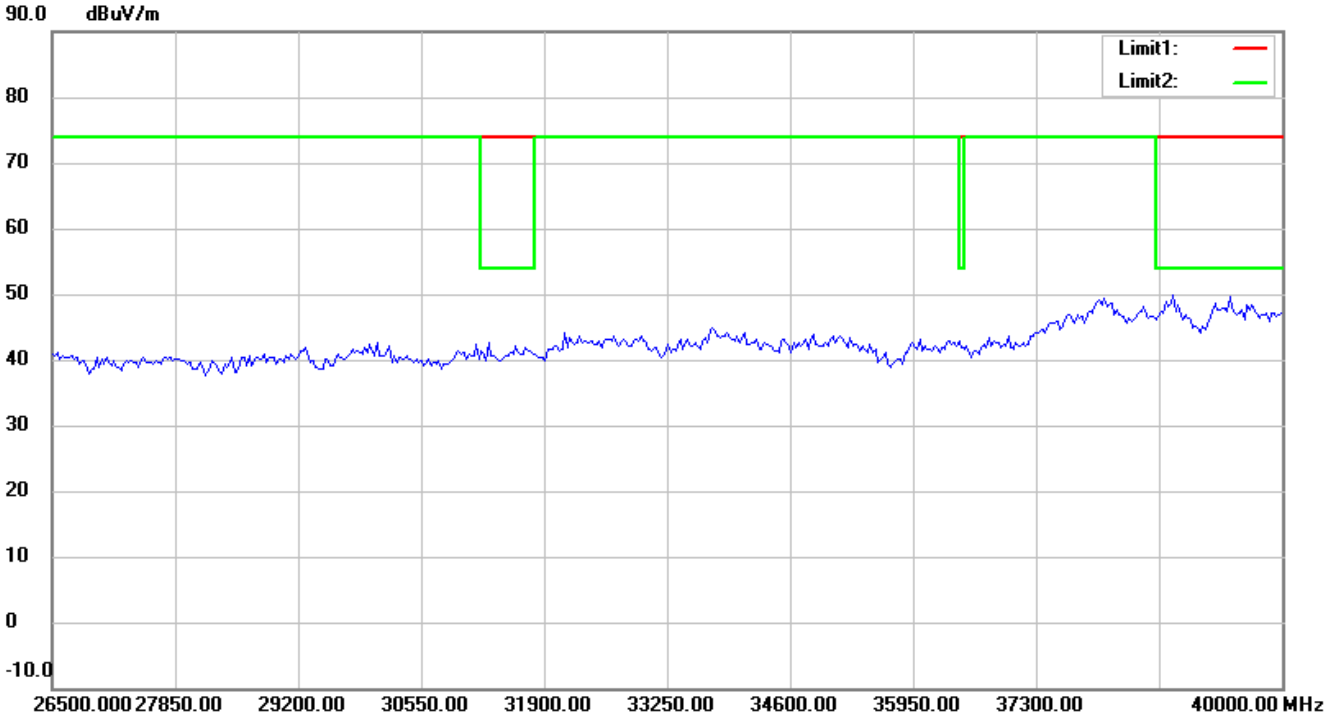

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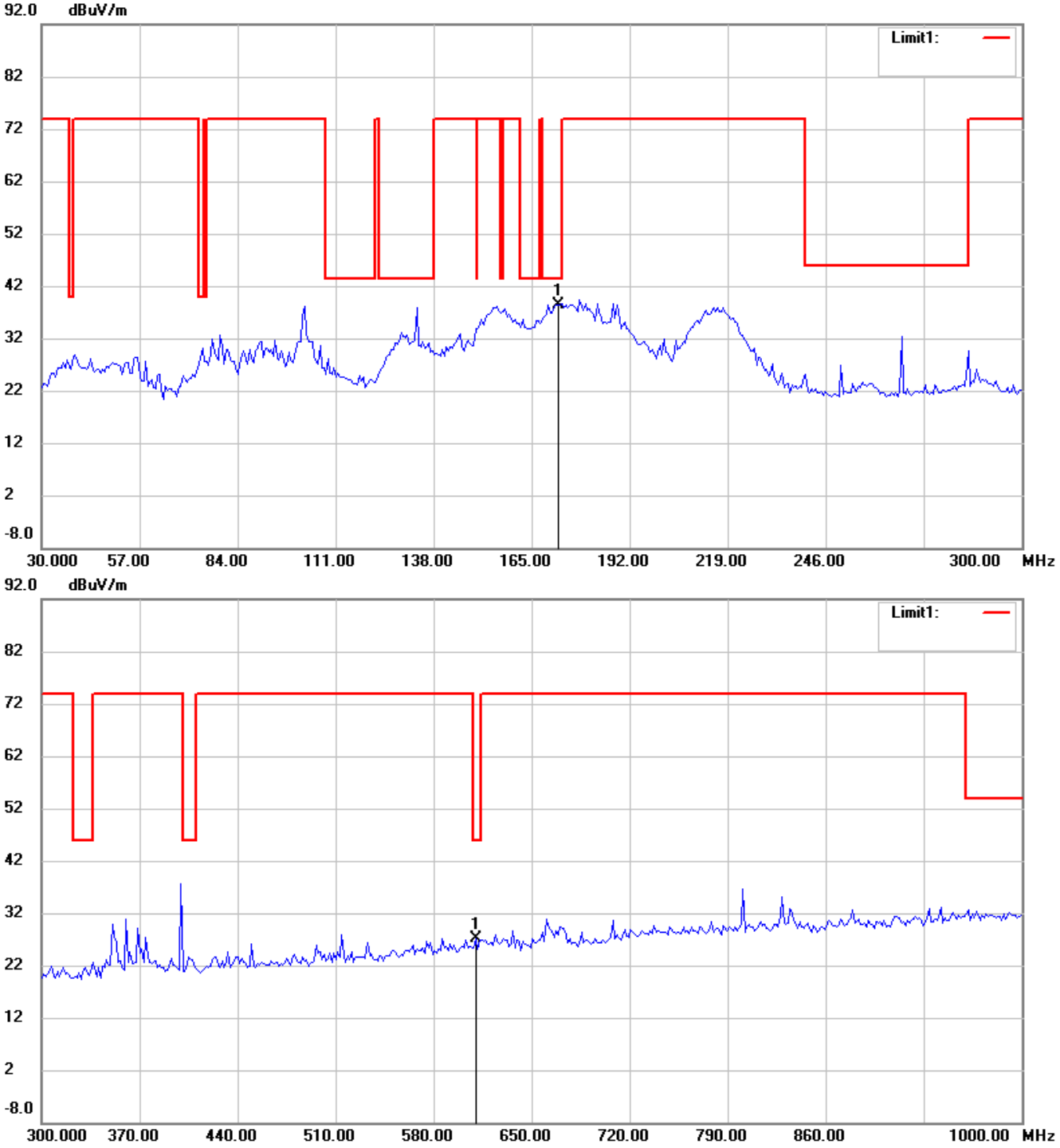
Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N

802.11a_CH165
Antenna Polarization H



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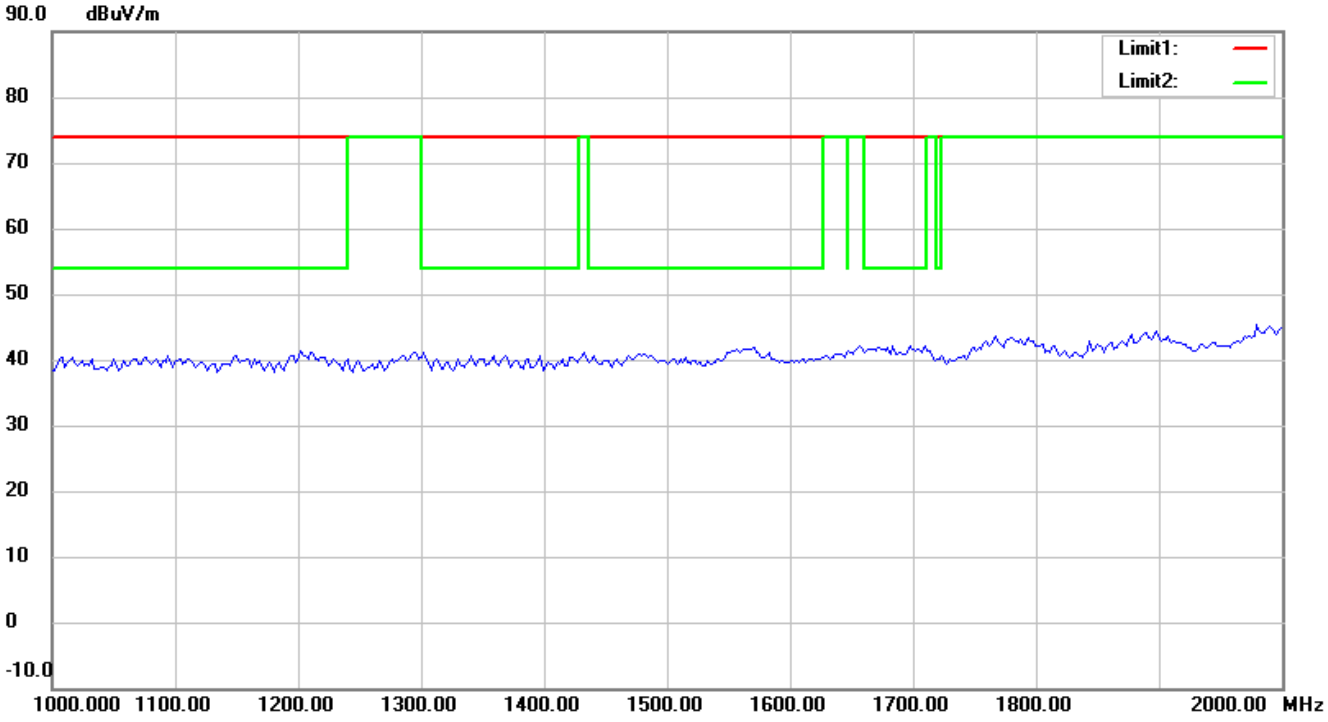
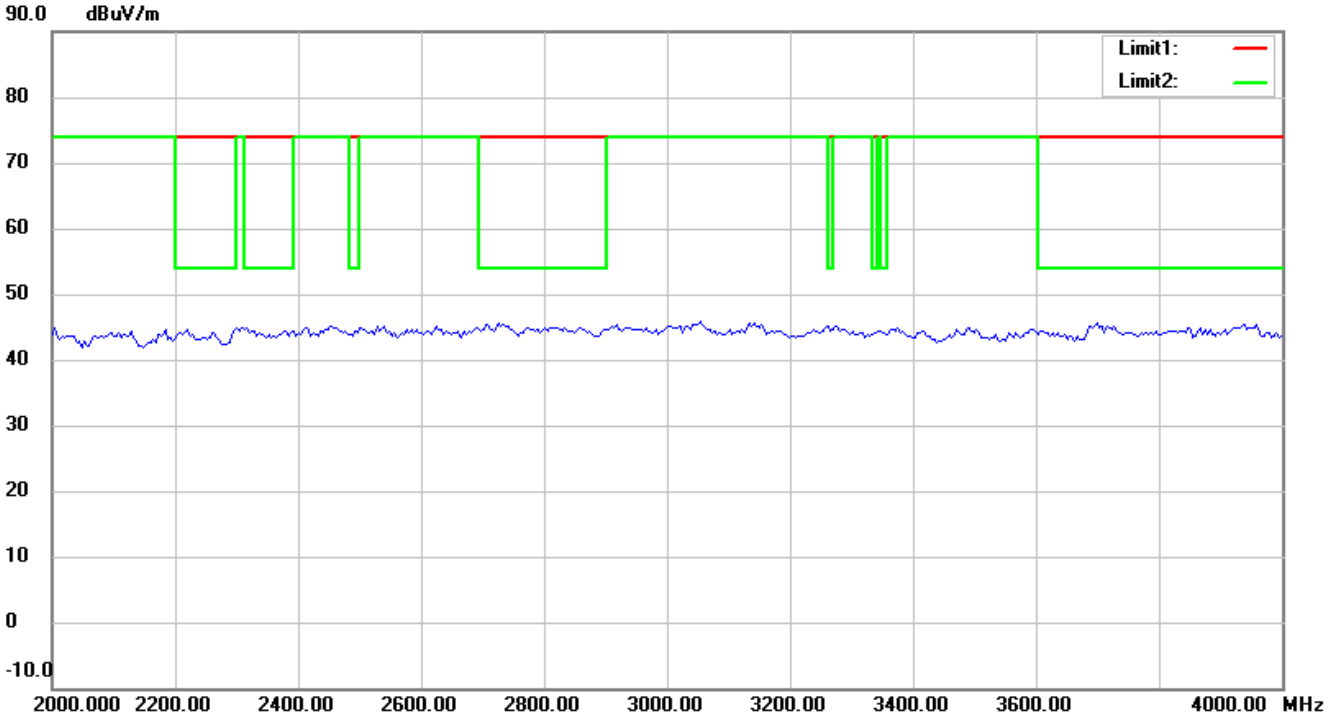
FCC ID: ODMAM5N





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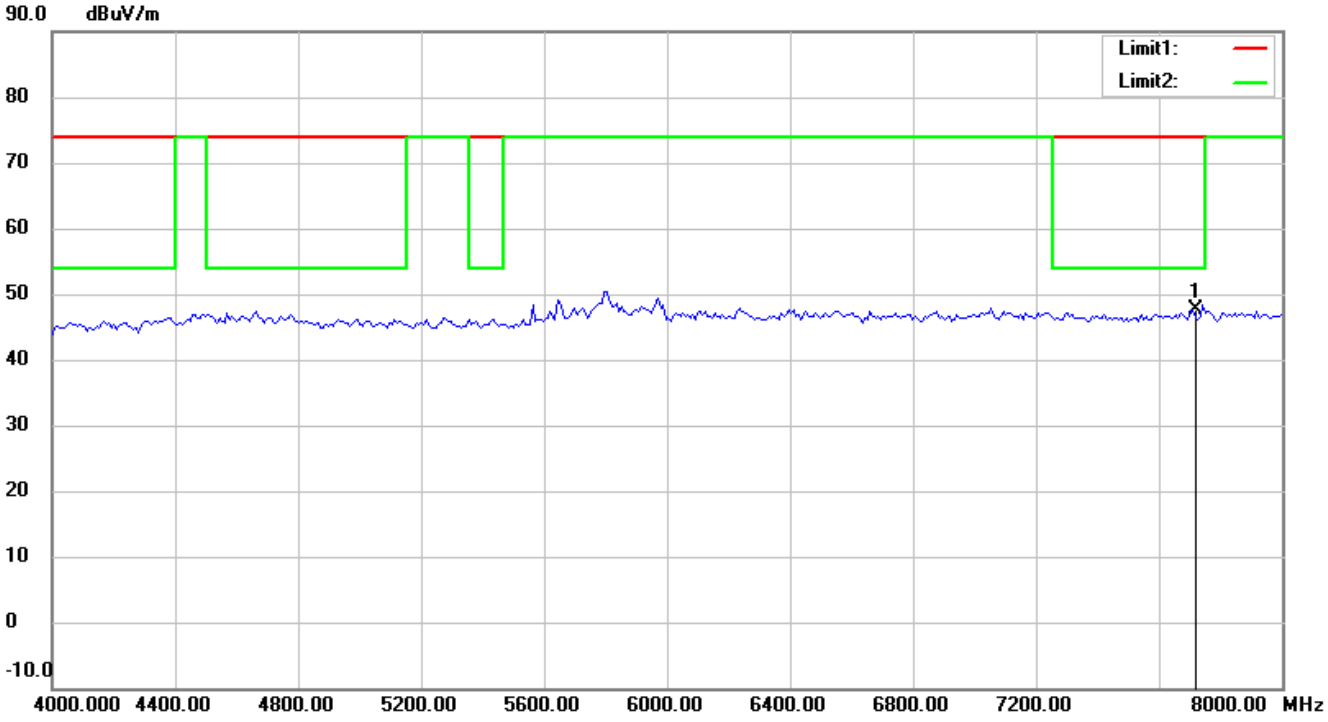

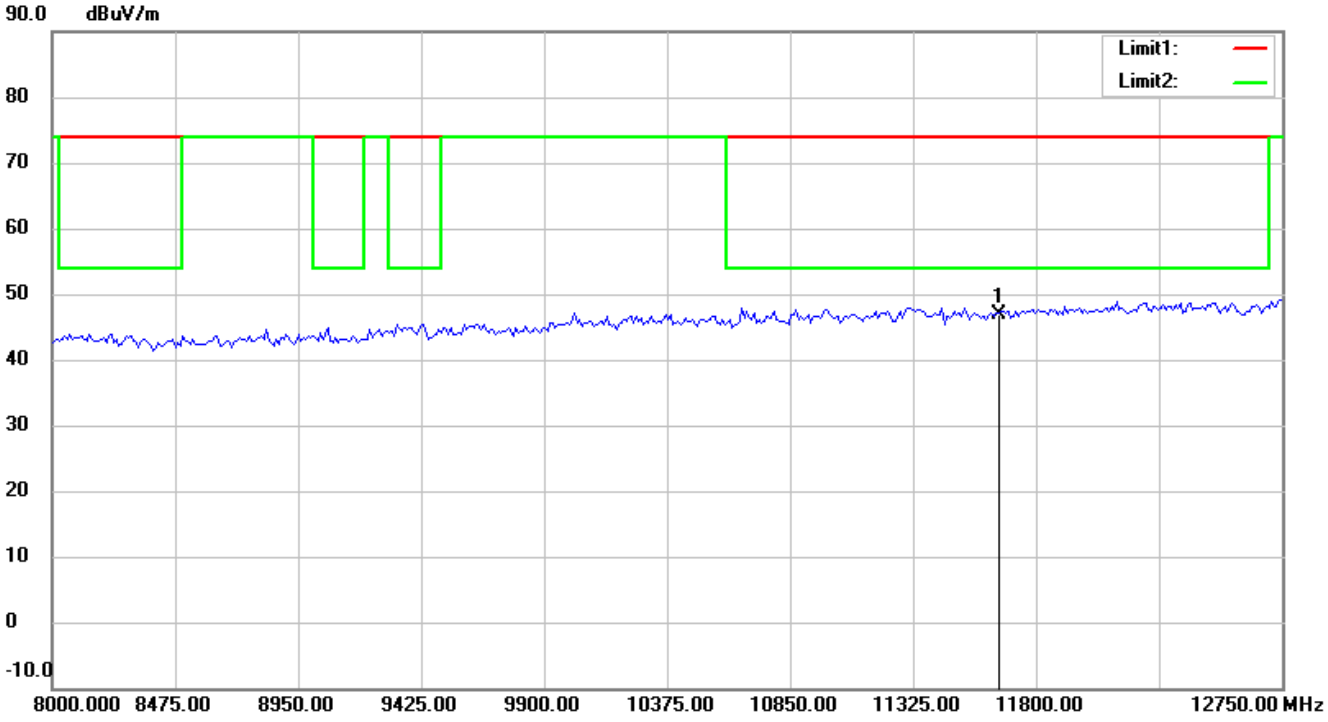

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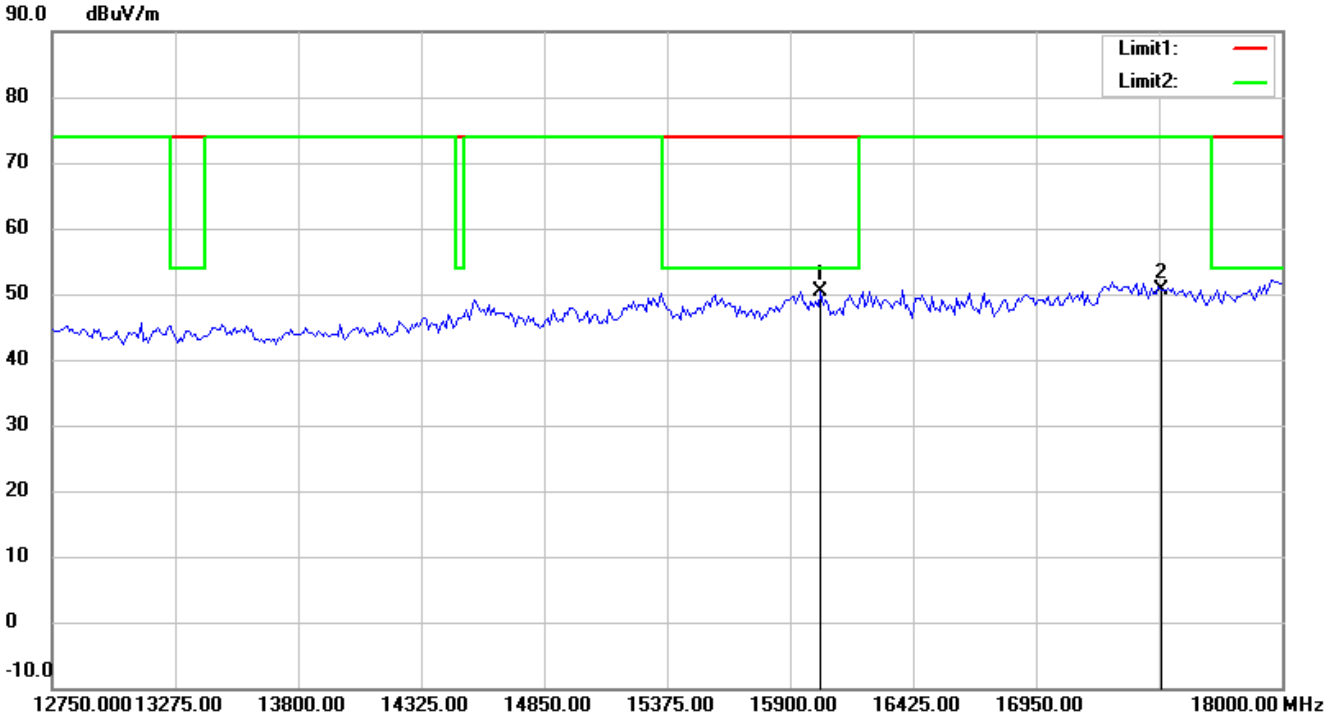

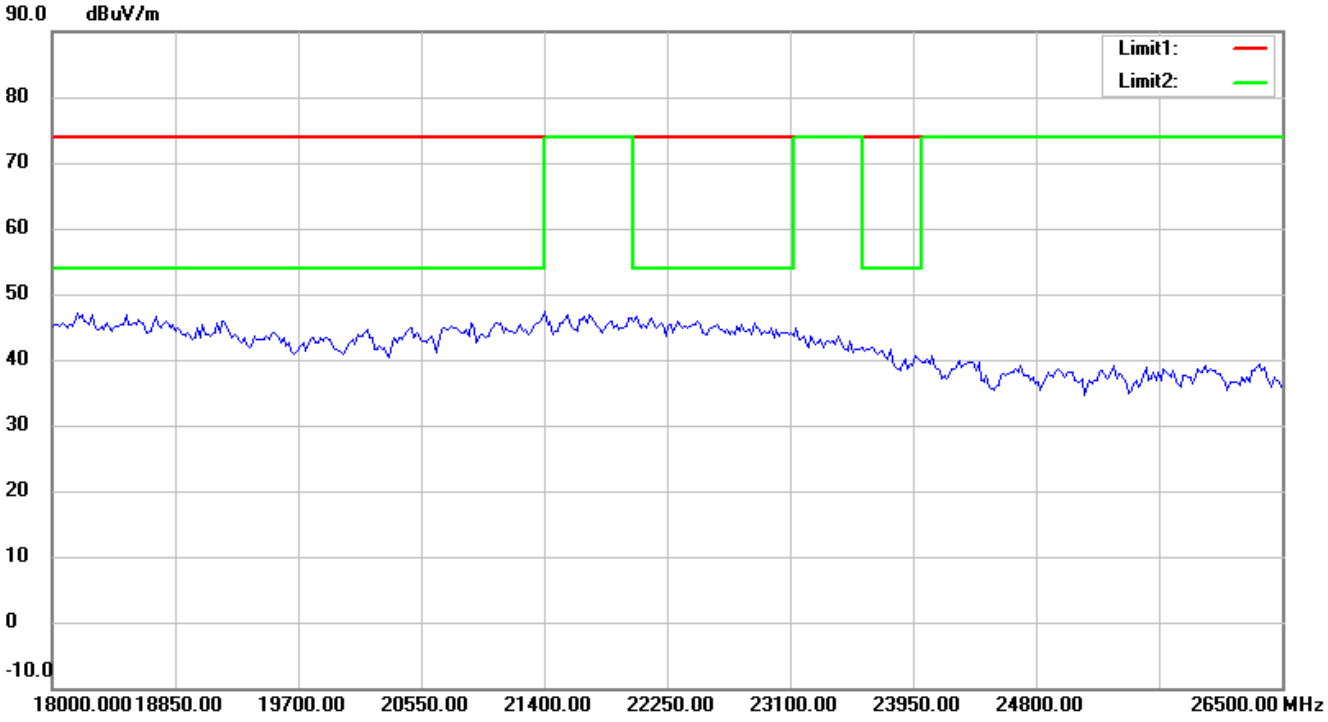

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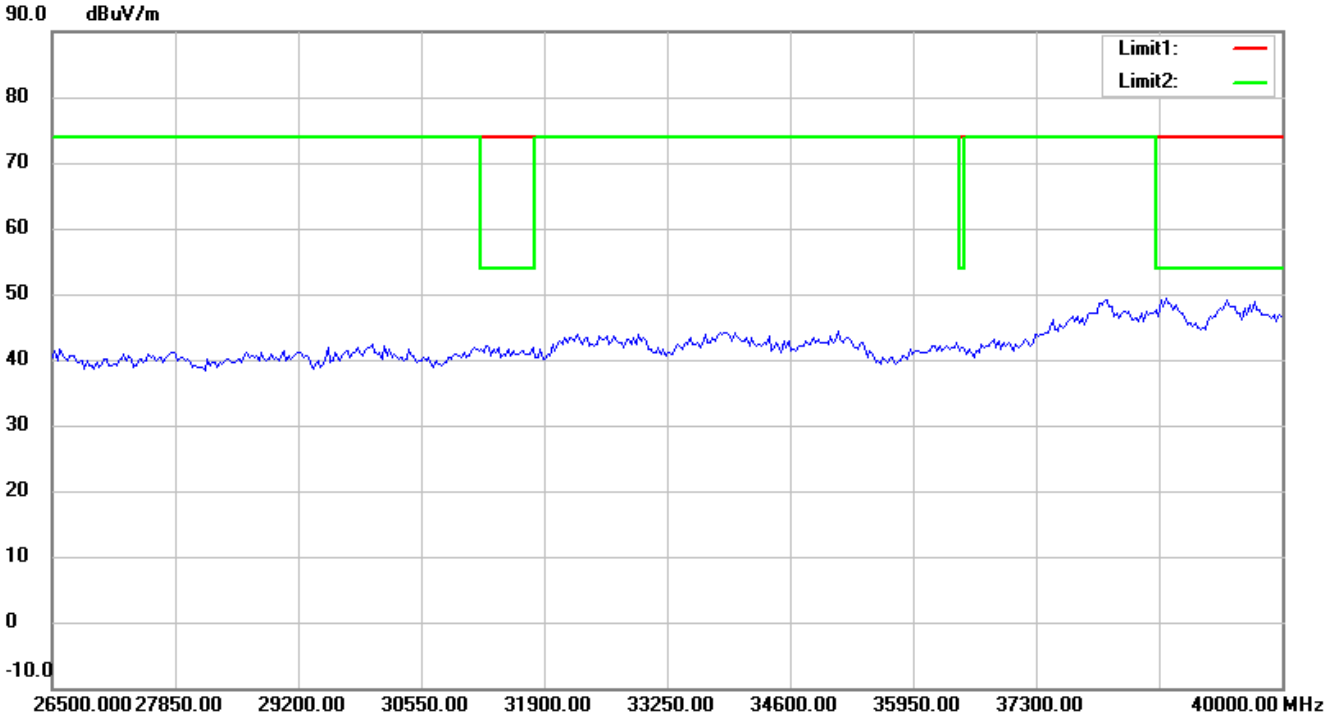
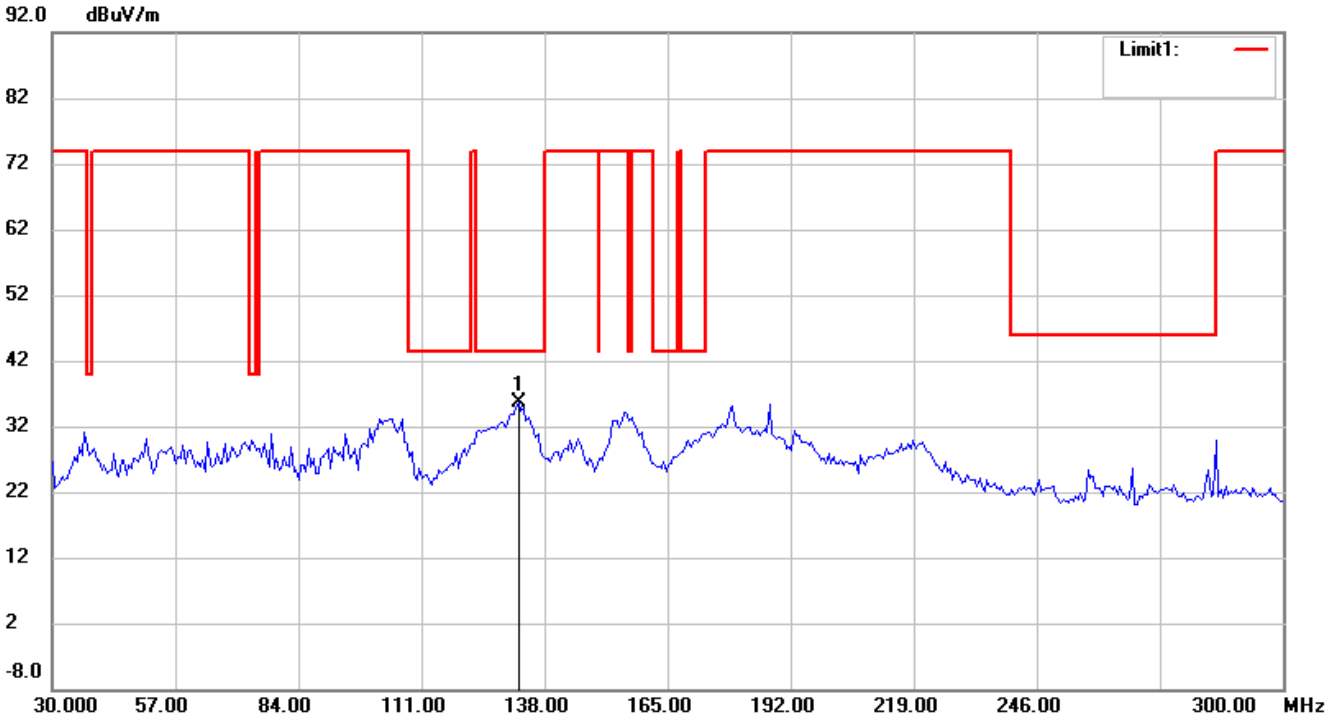


Antenna Polarization V



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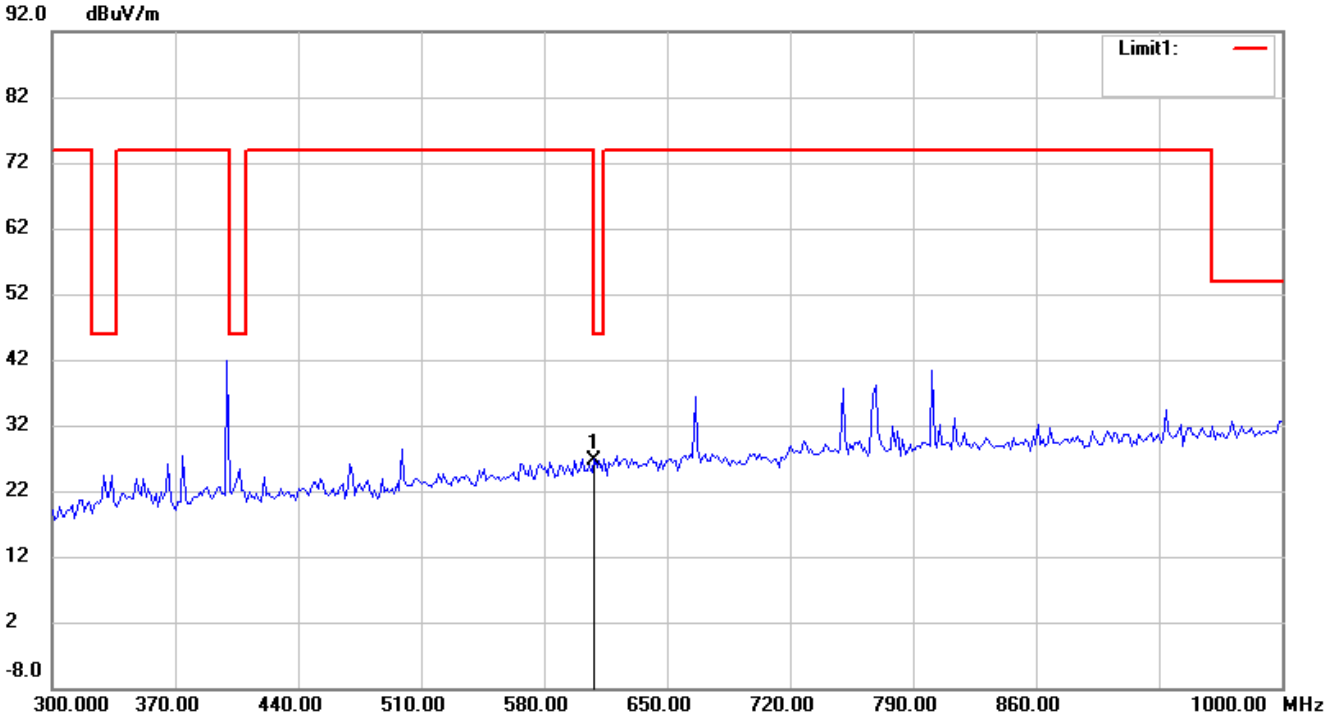

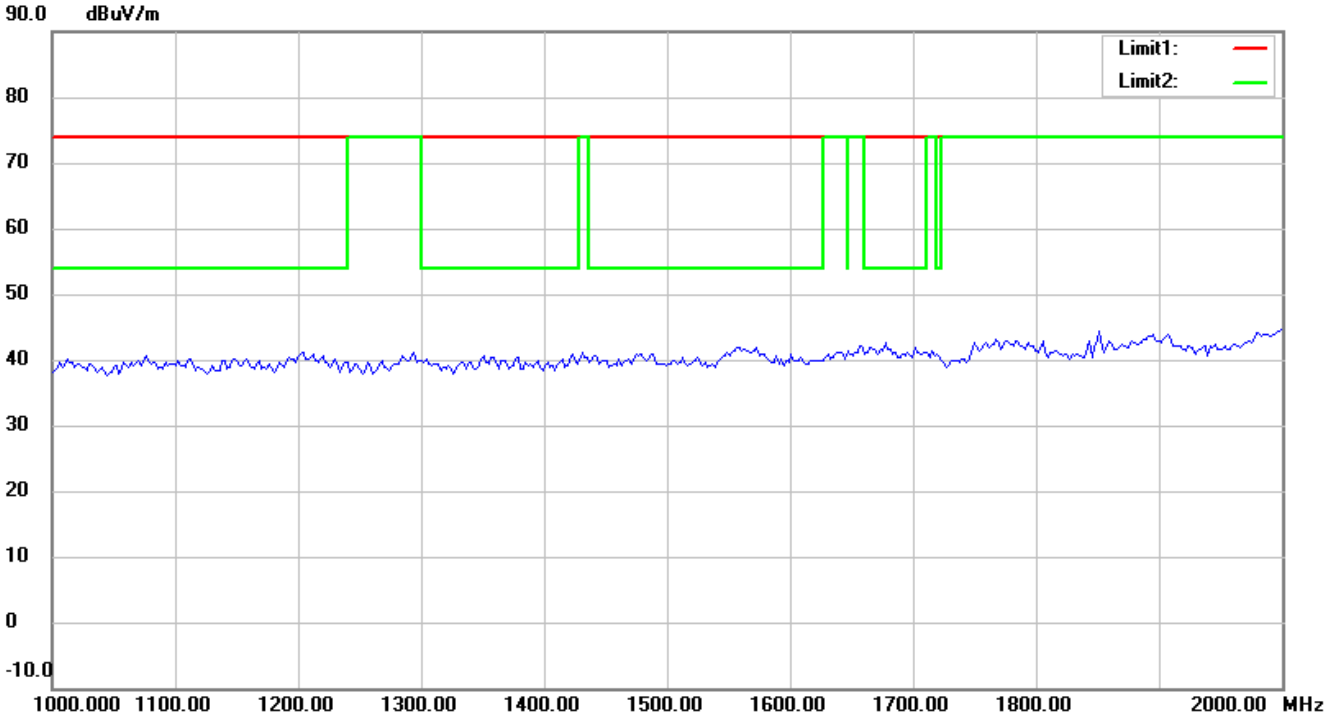

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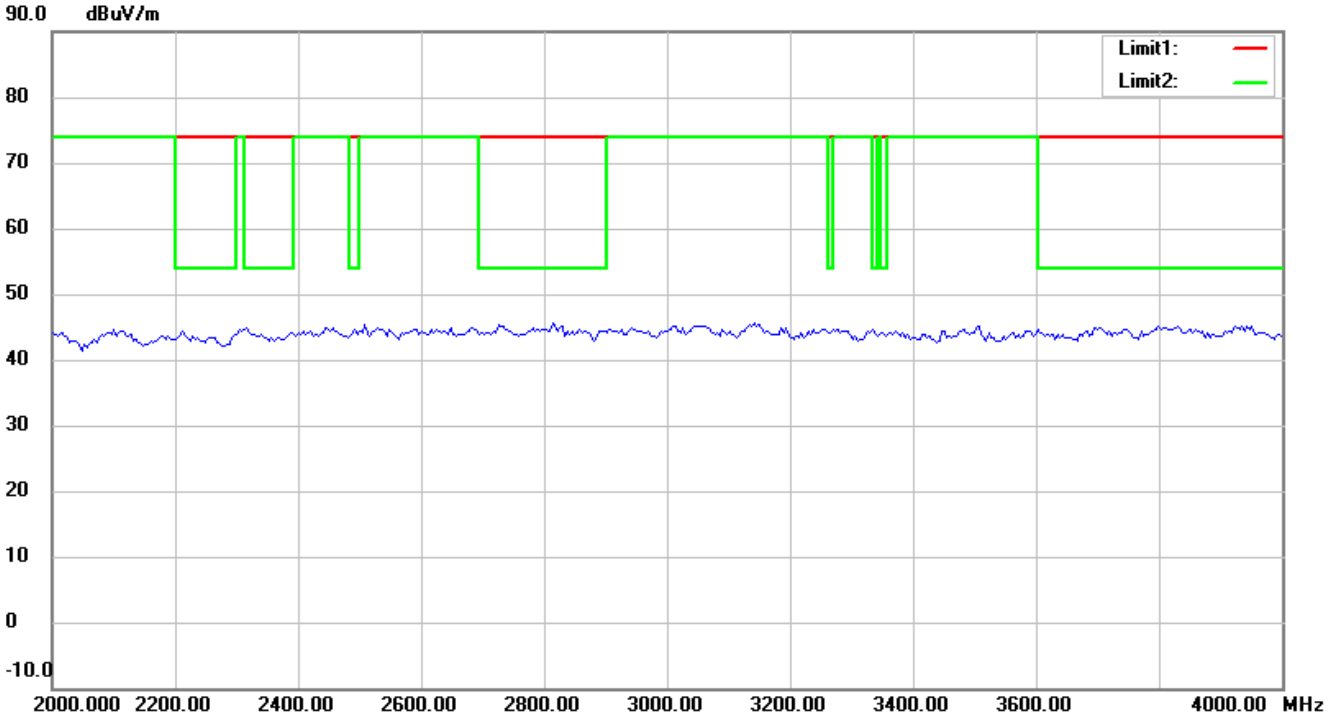

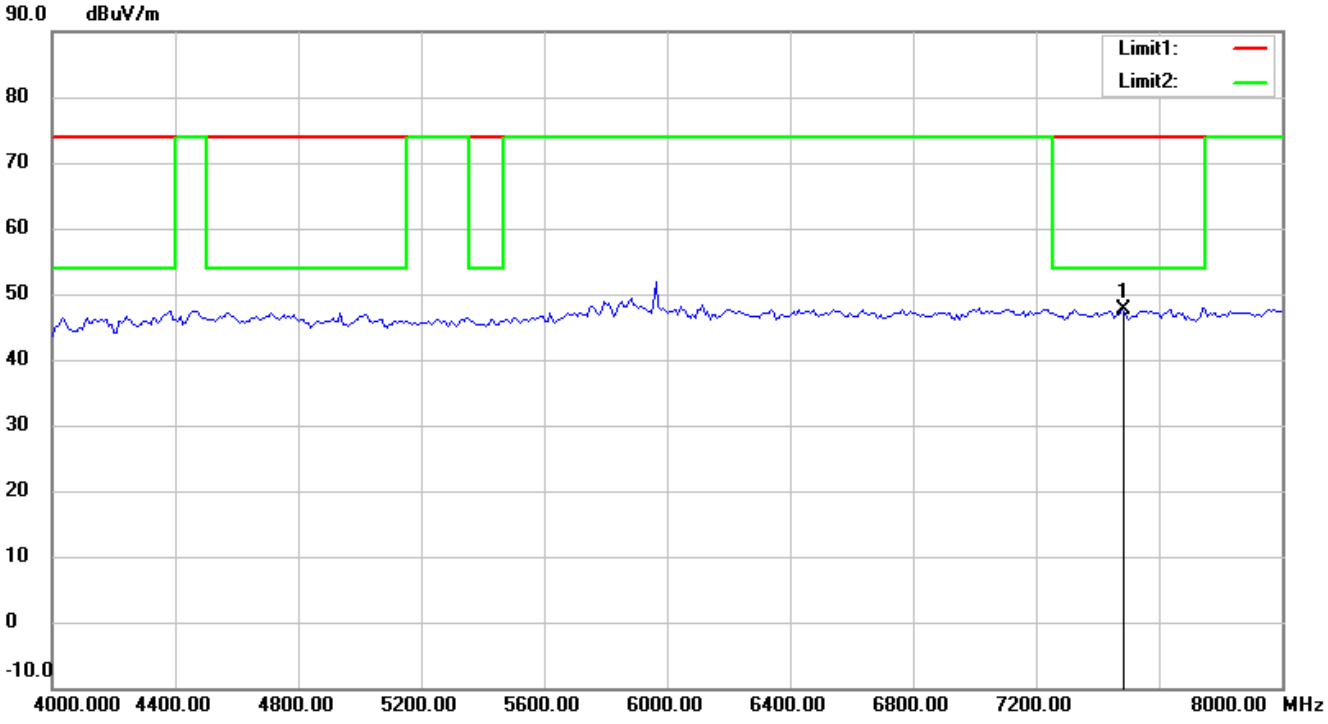

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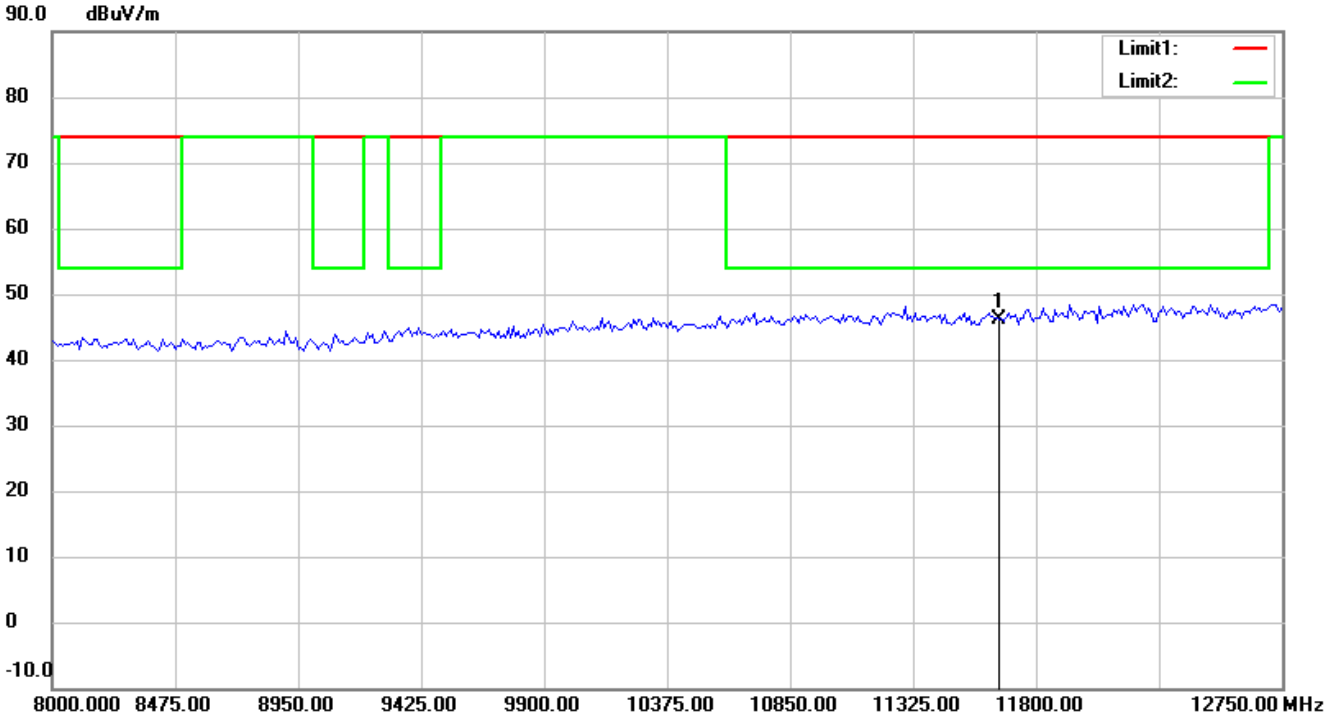

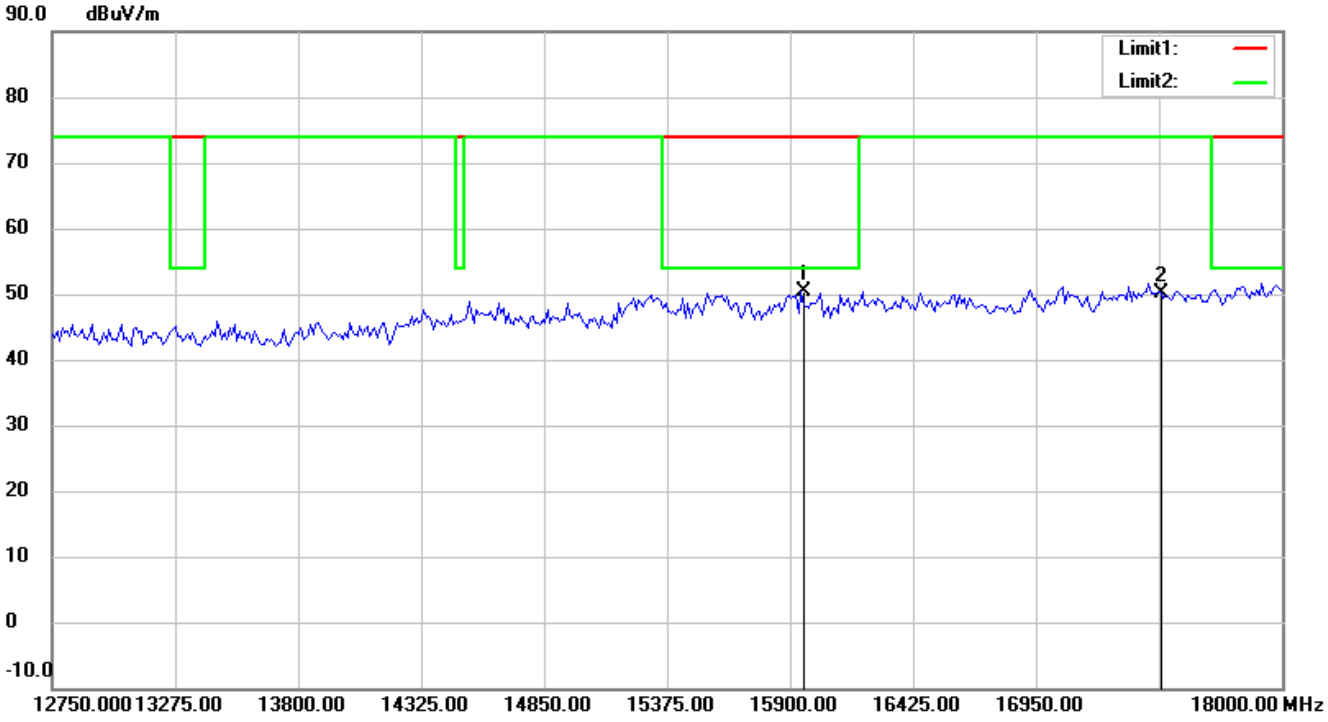

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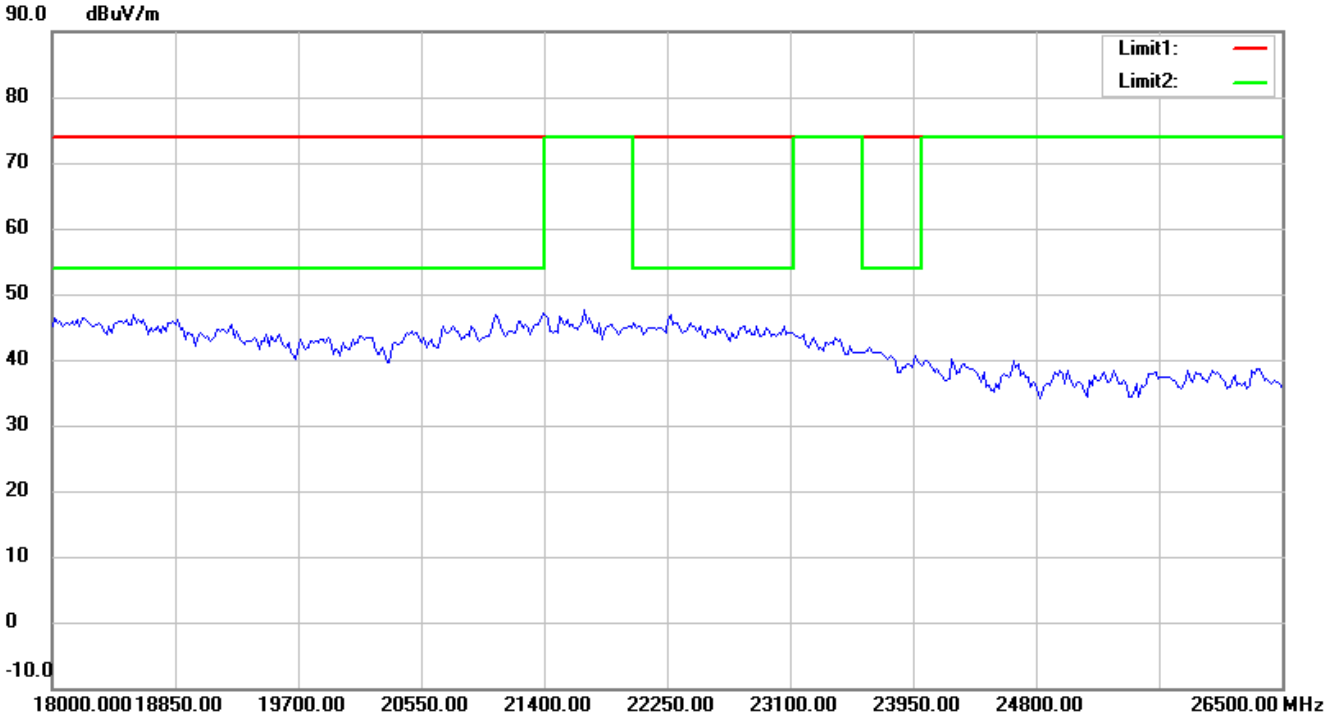

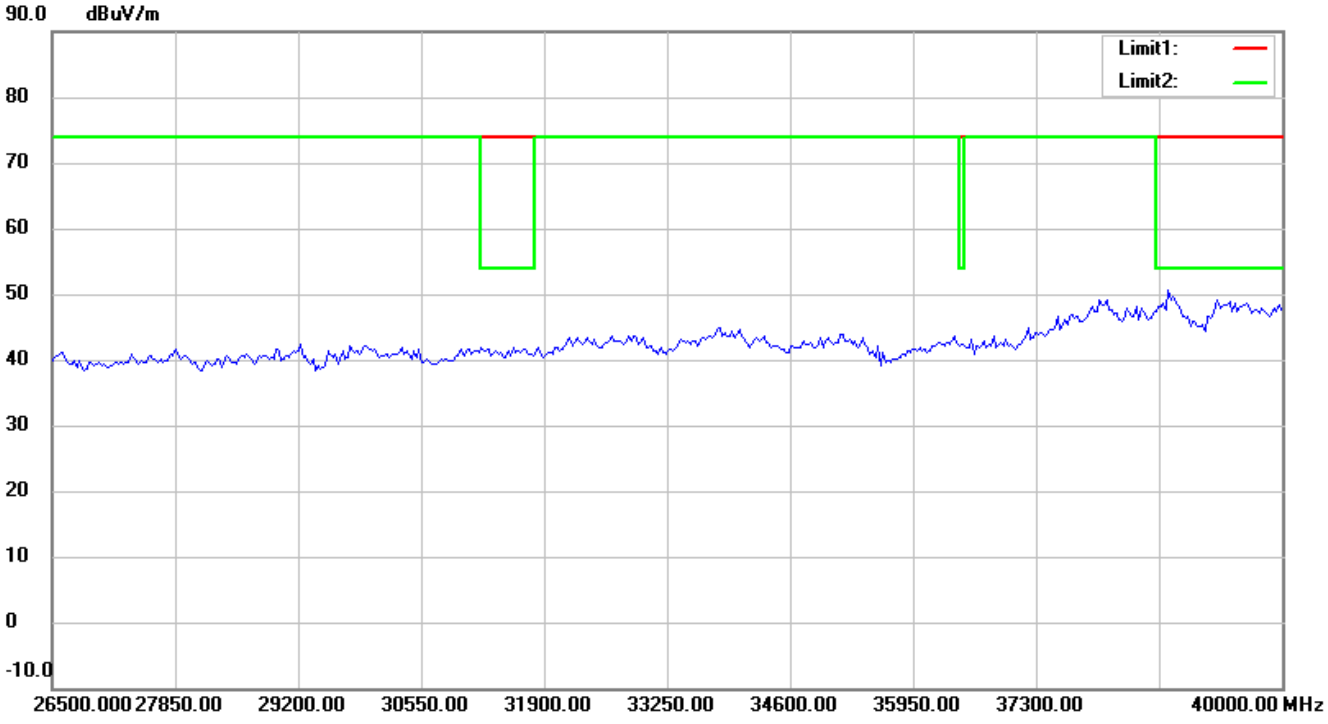

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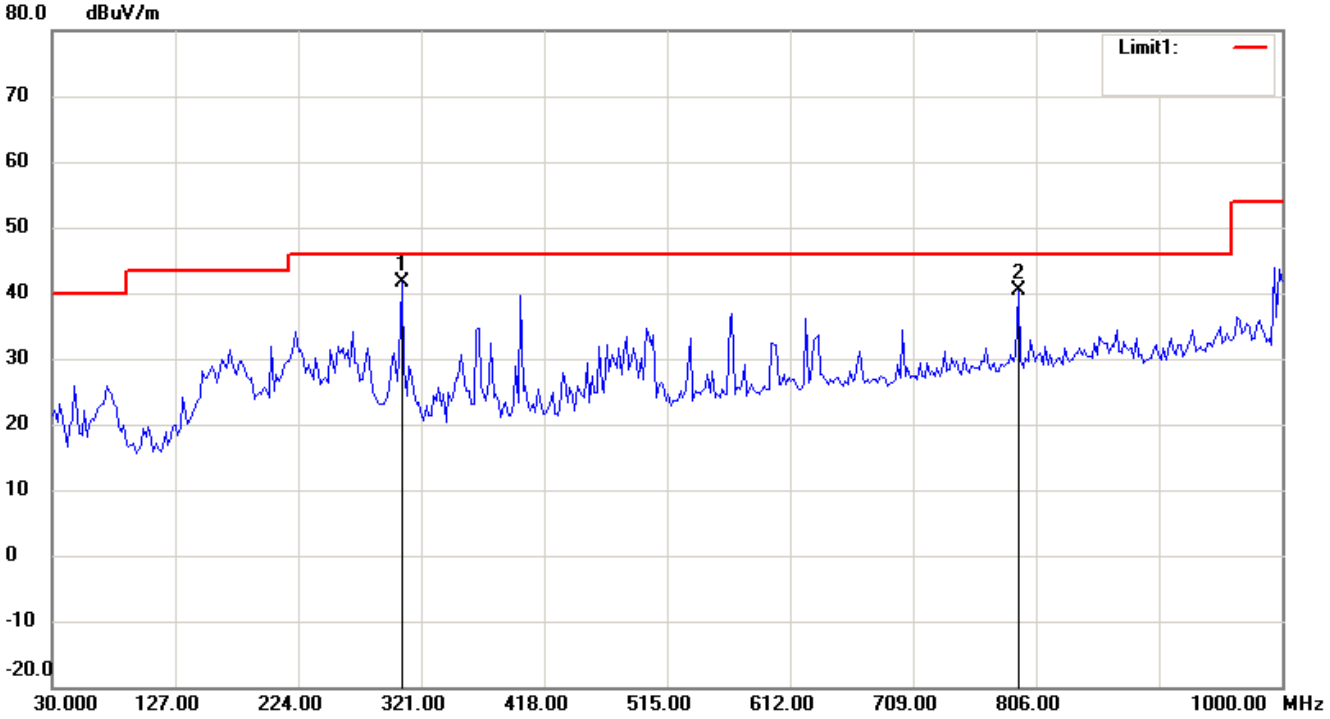
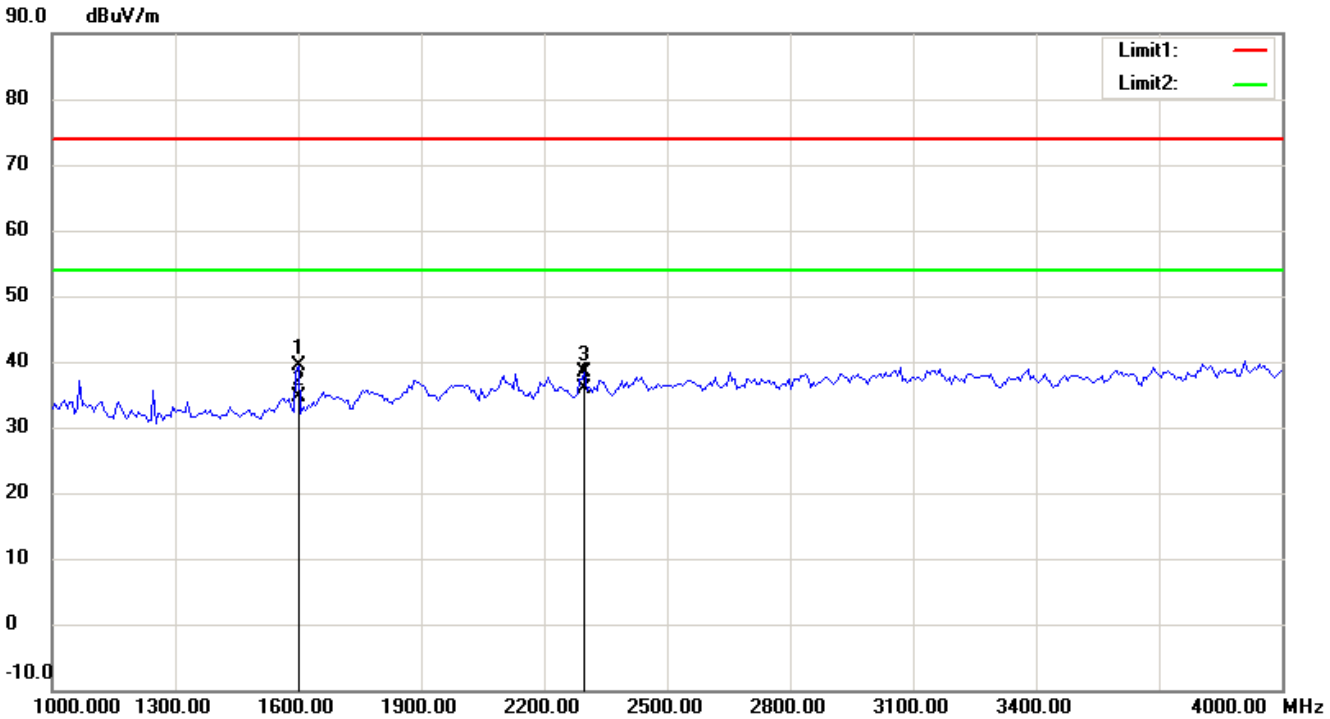
FCC ID: ODMAM5N

801.11n 20M CH149
Antenna Polarization H





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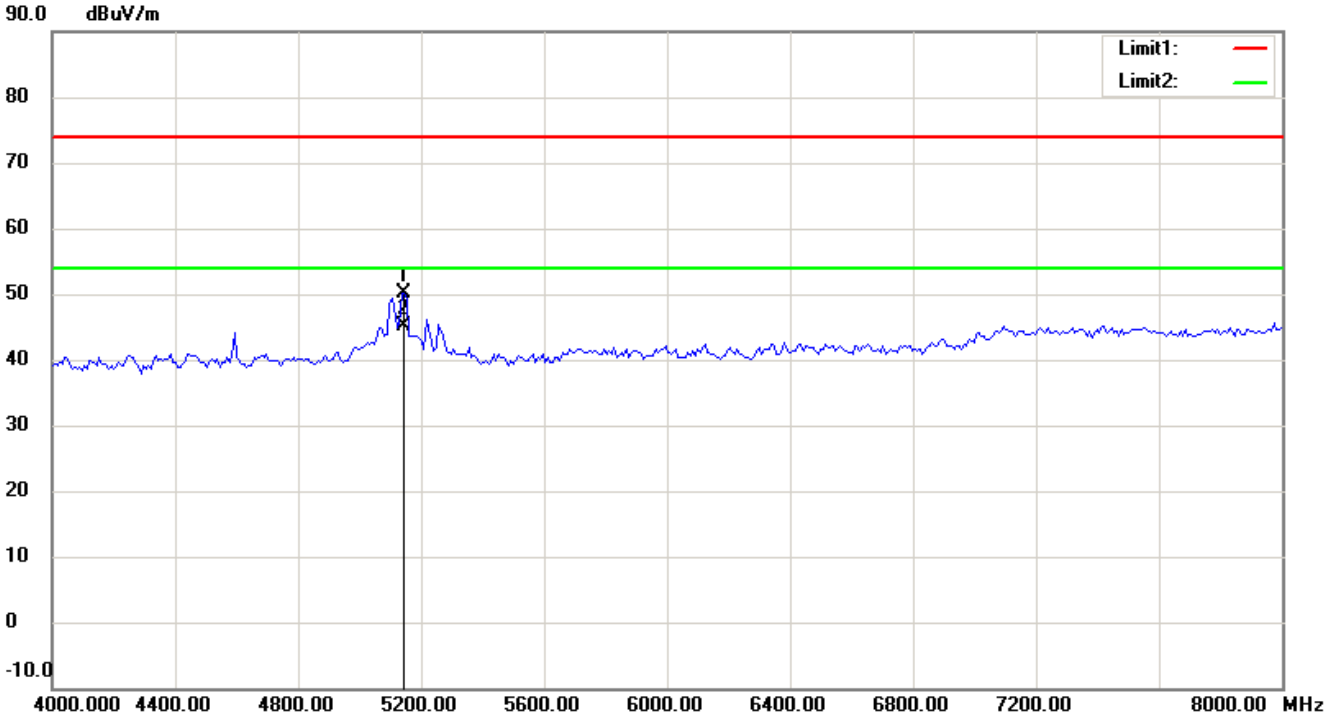

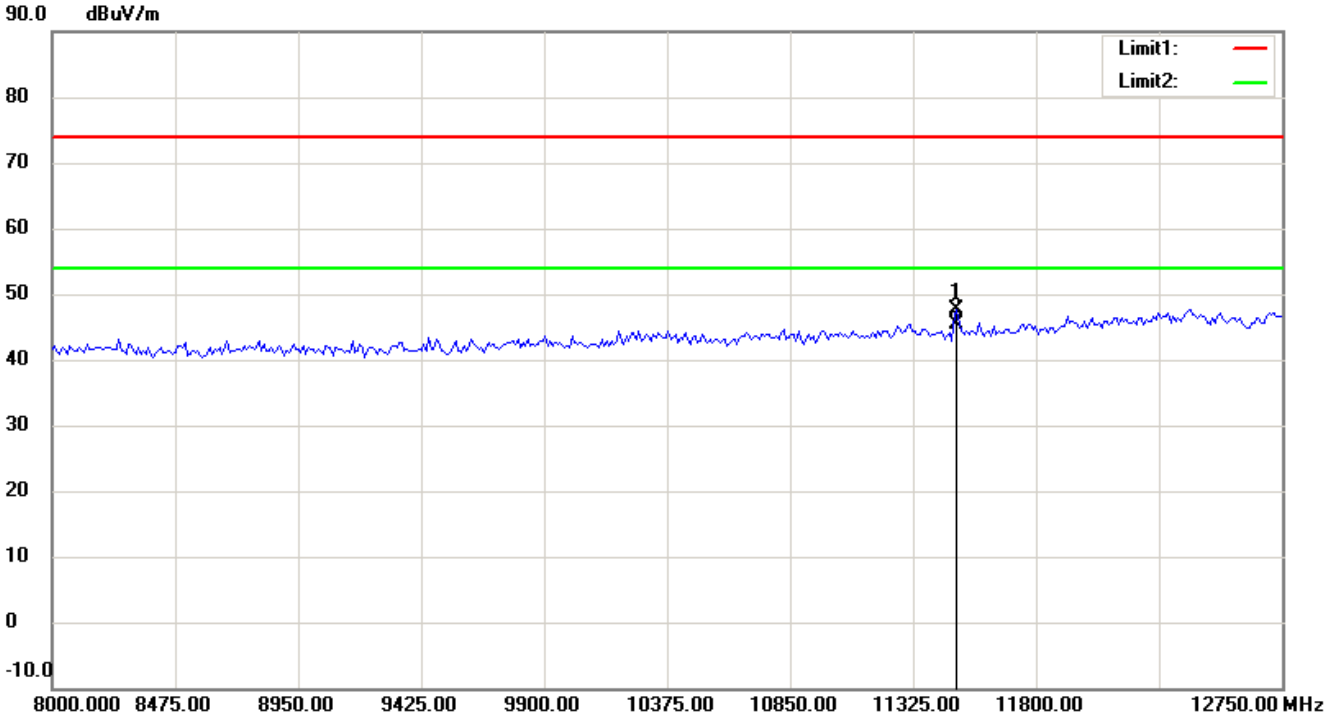

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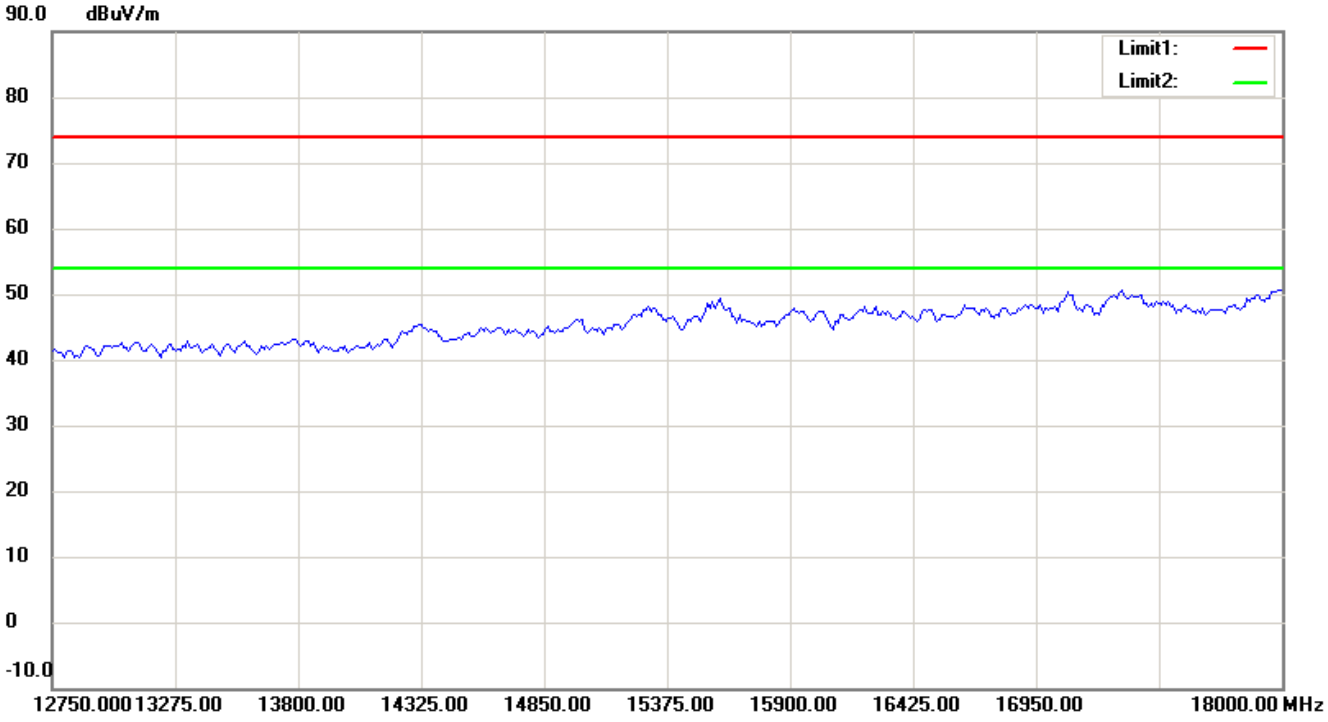

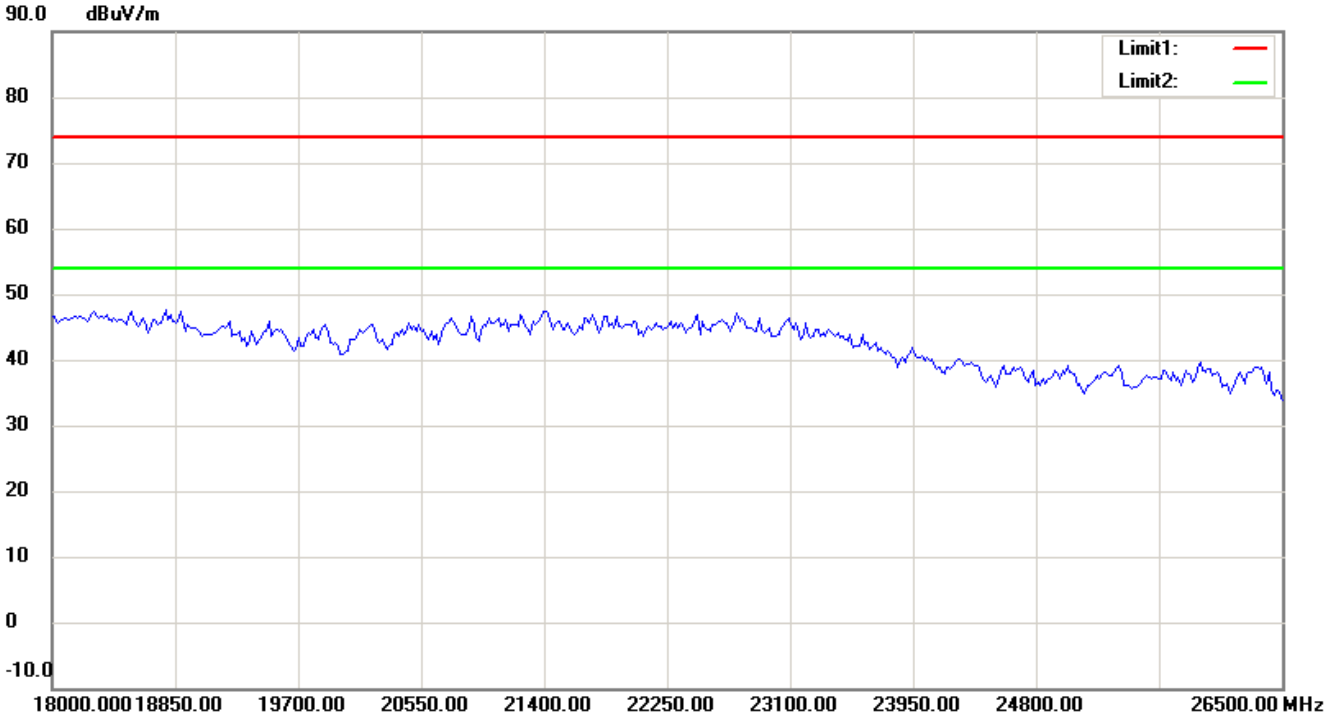

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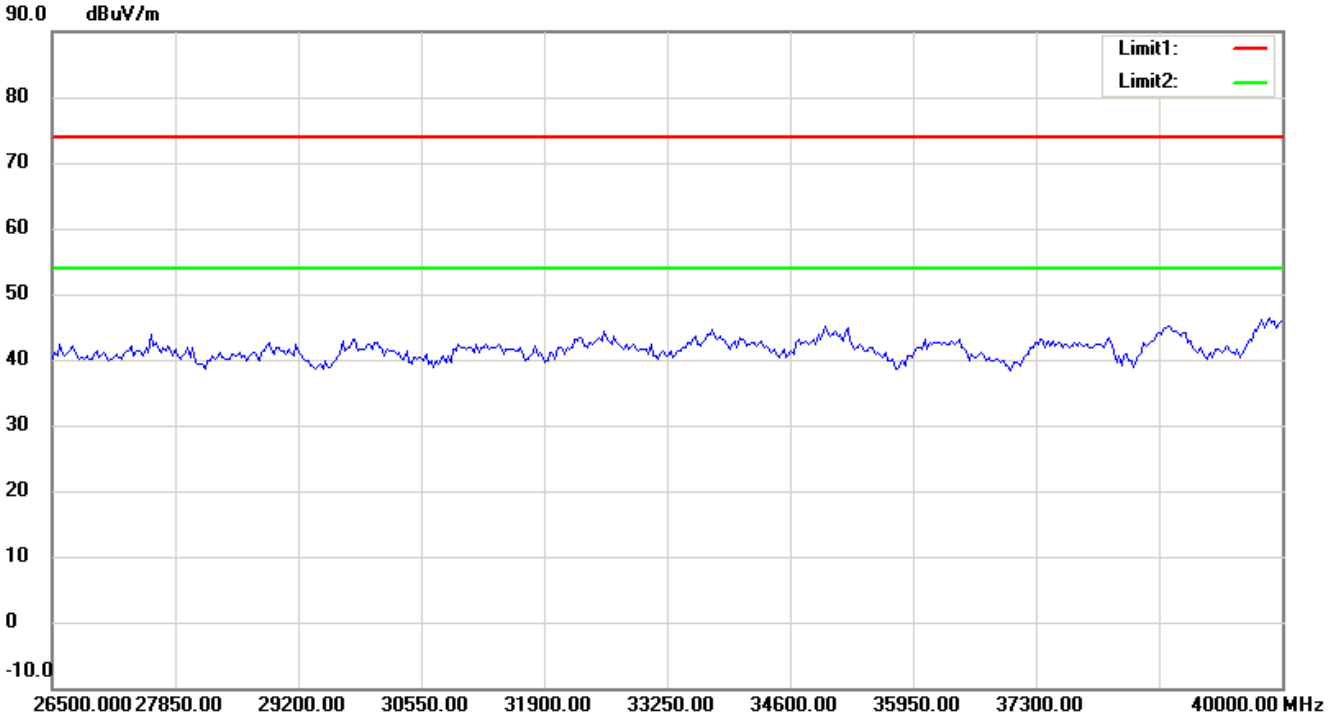
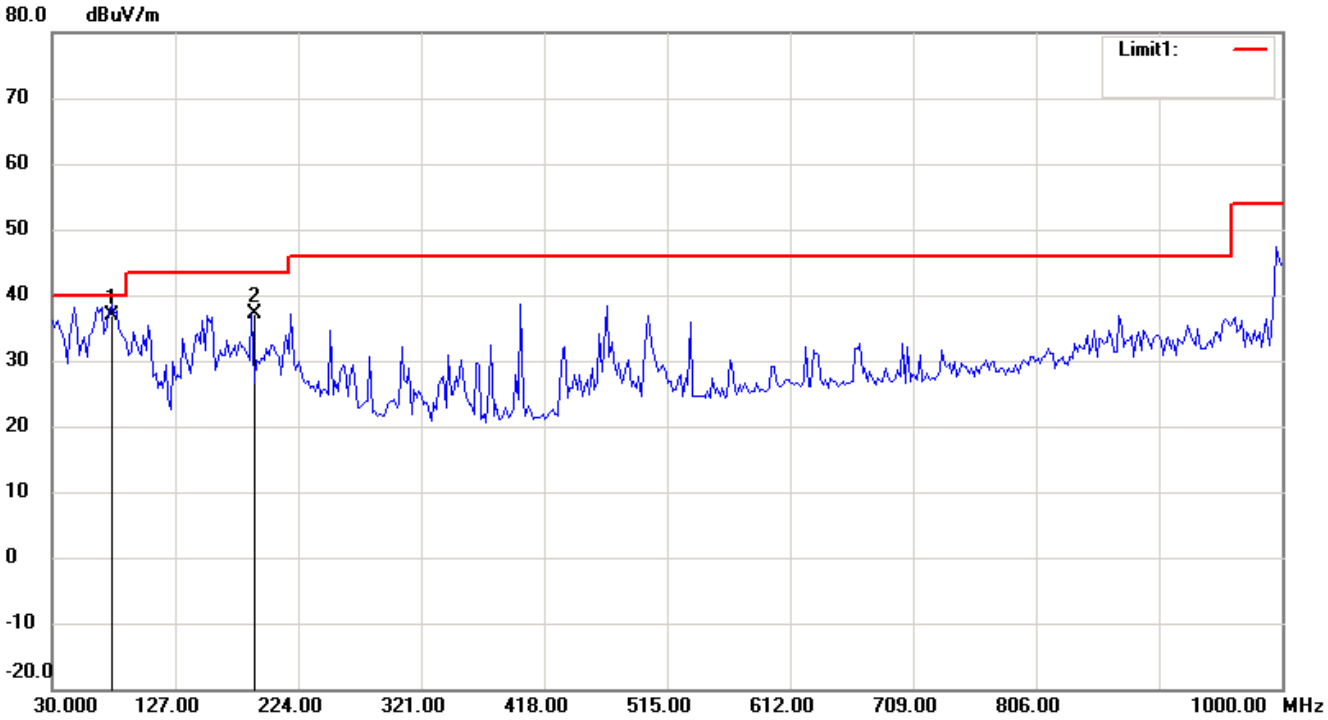


Antenna Polarization V



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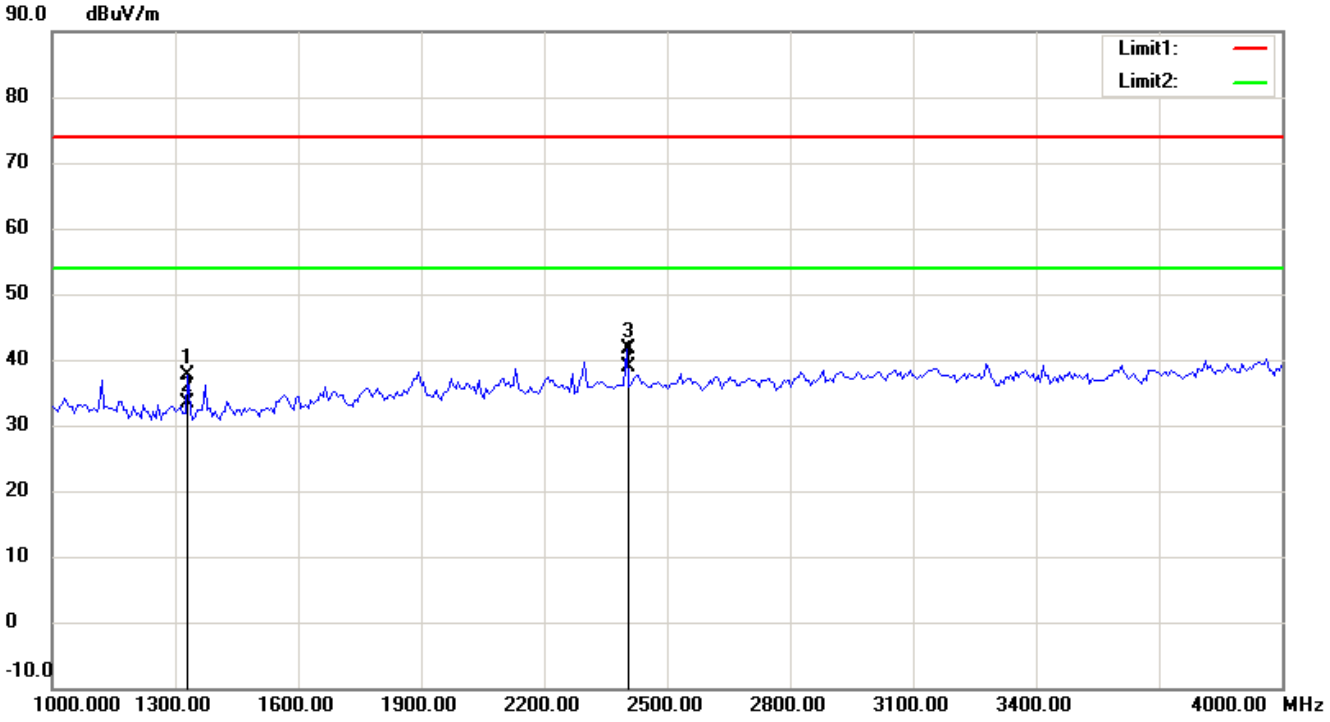

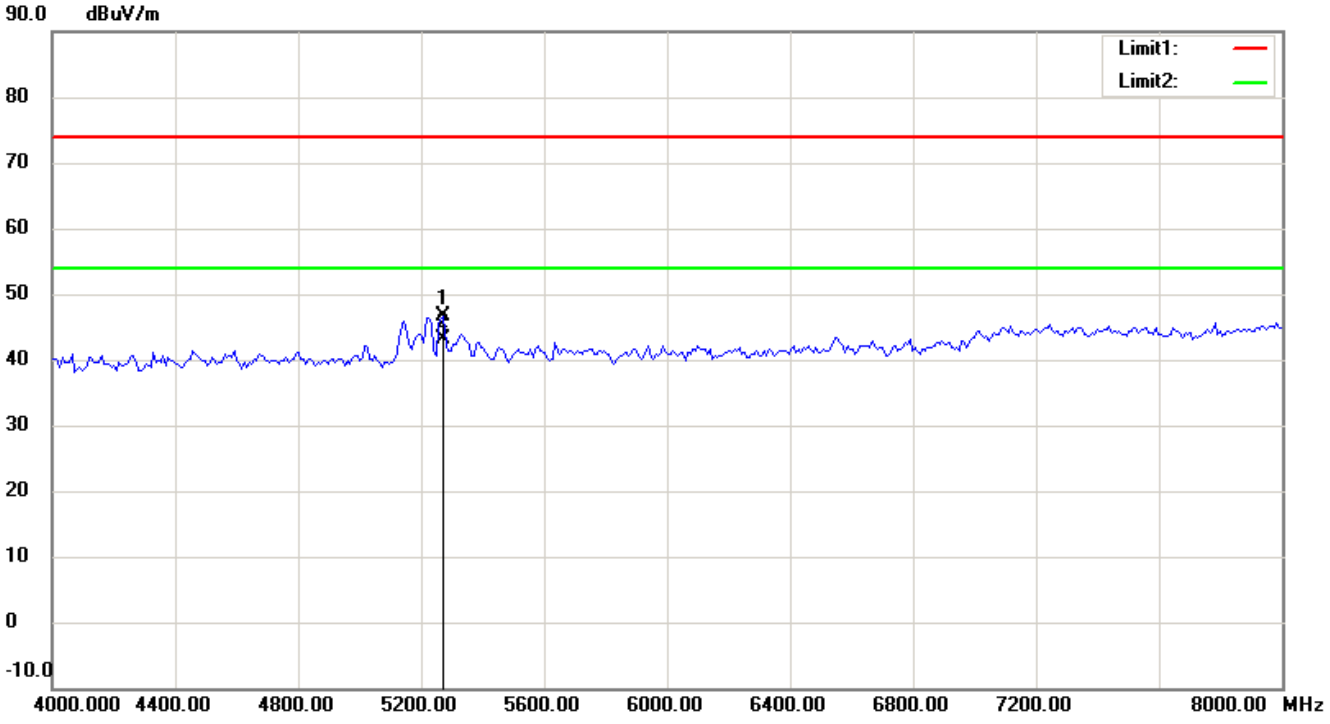

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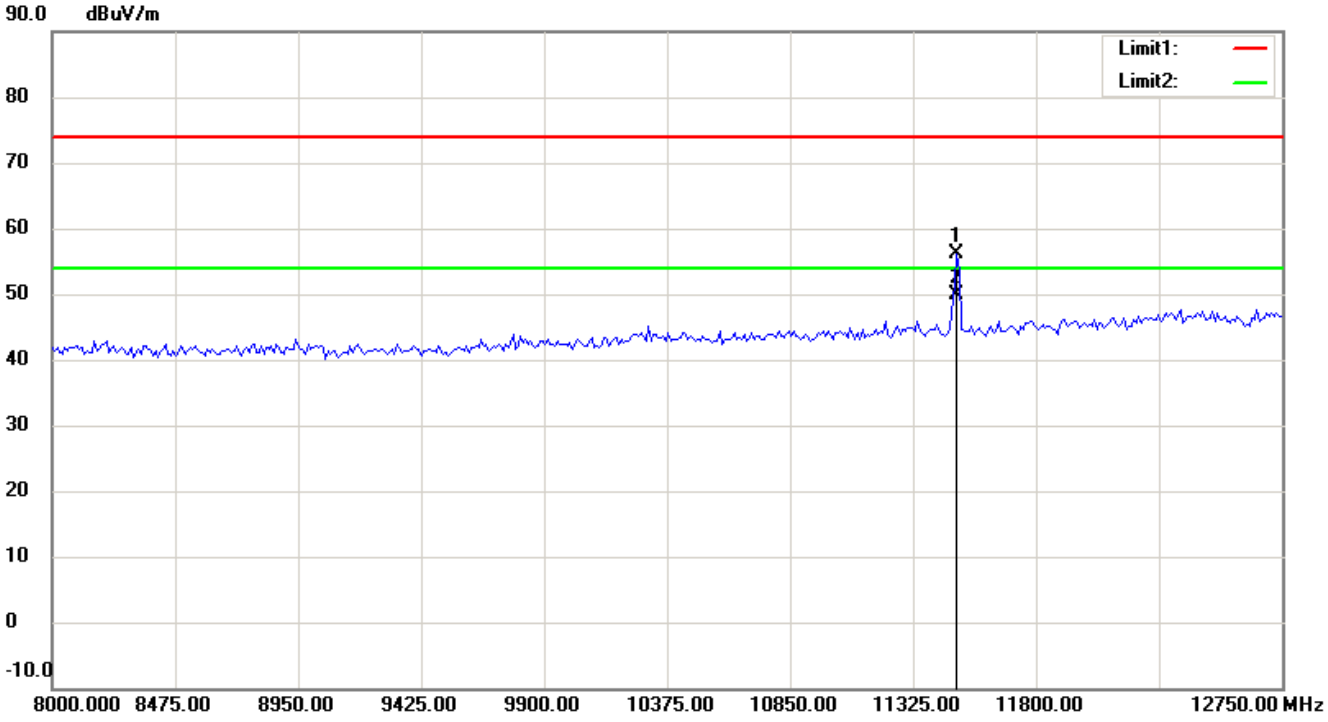
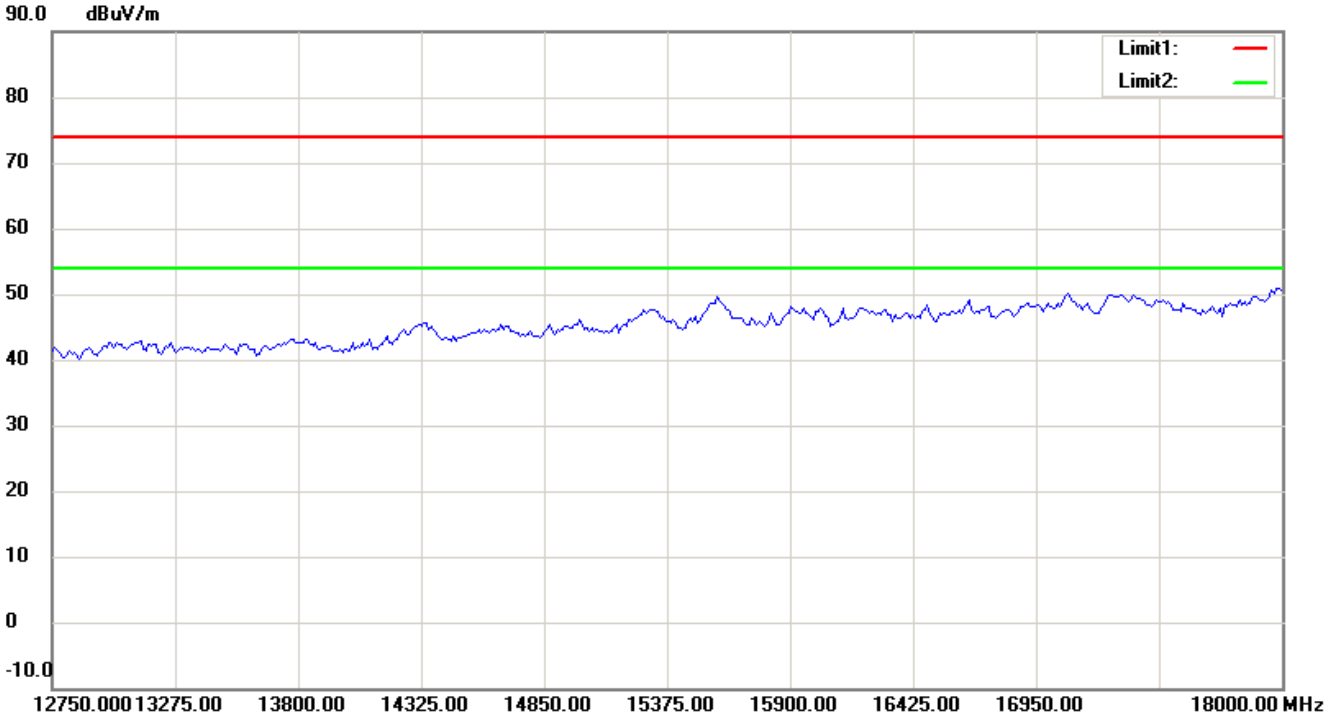
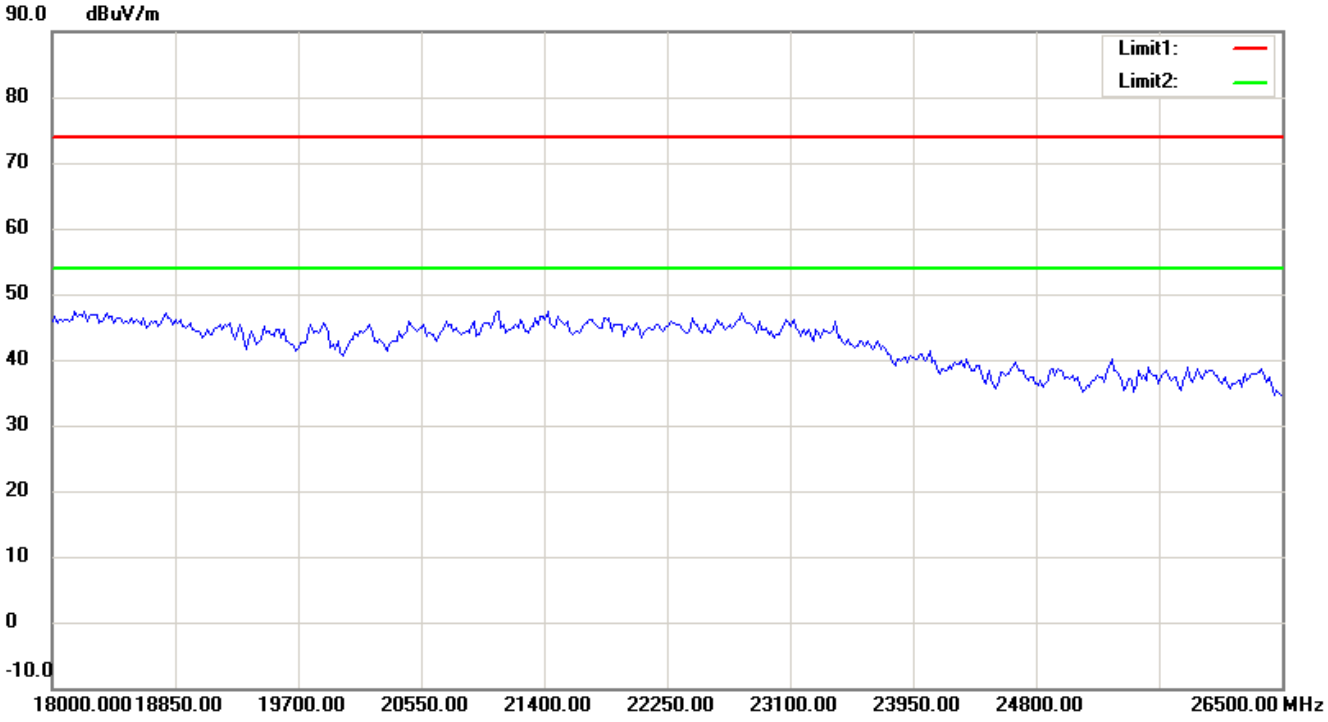


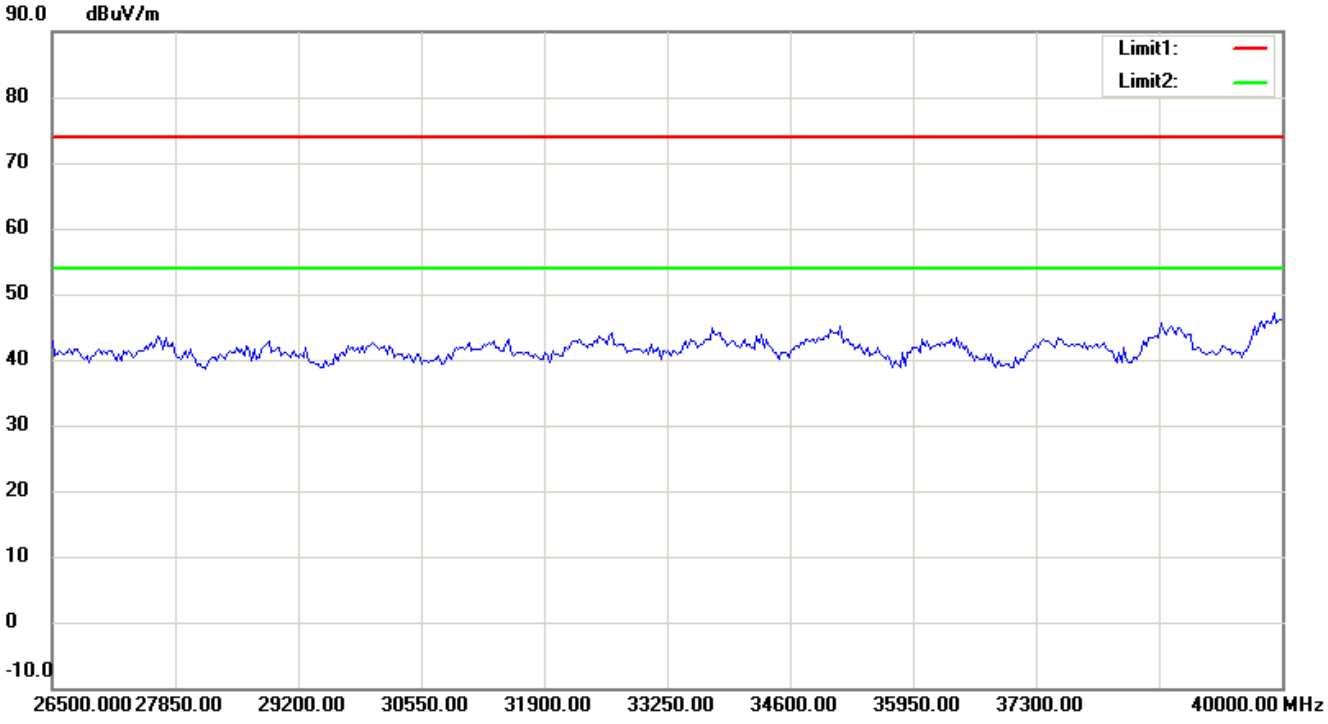


Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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: W6D21210-12823-C-1
FCC ID: ODMAM5N





Up Line: Peak Limit Line Down Line: Ave Limit Line
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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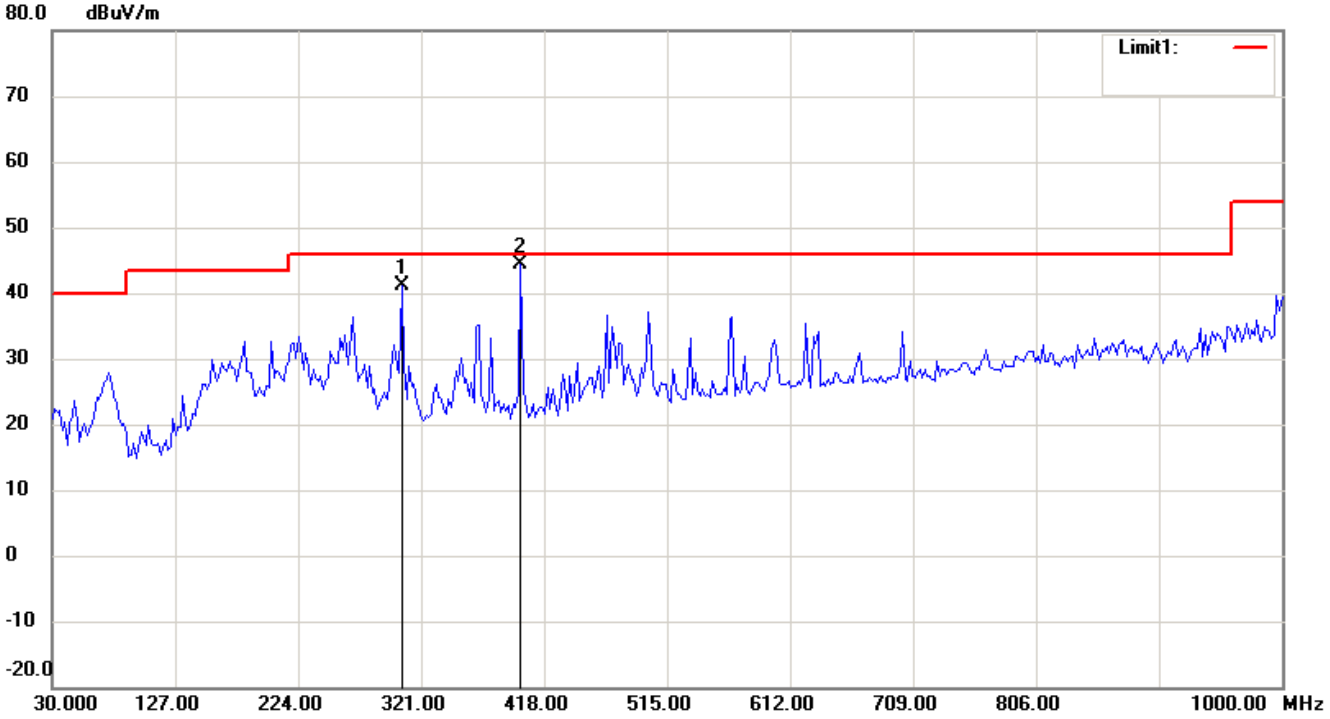
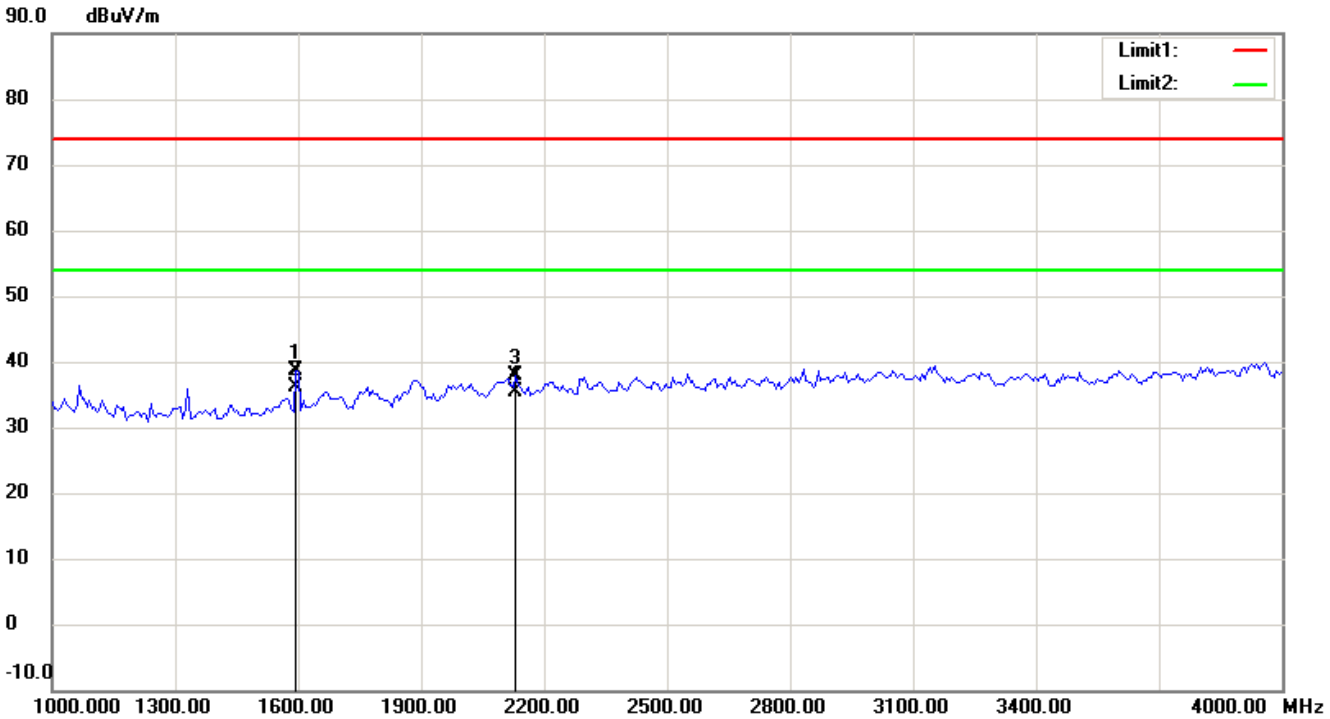
Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N

801.11n 20M CH157
Antenna Polarization H





Up Line: Peak Limit Line Down Line: Ave Limit Line
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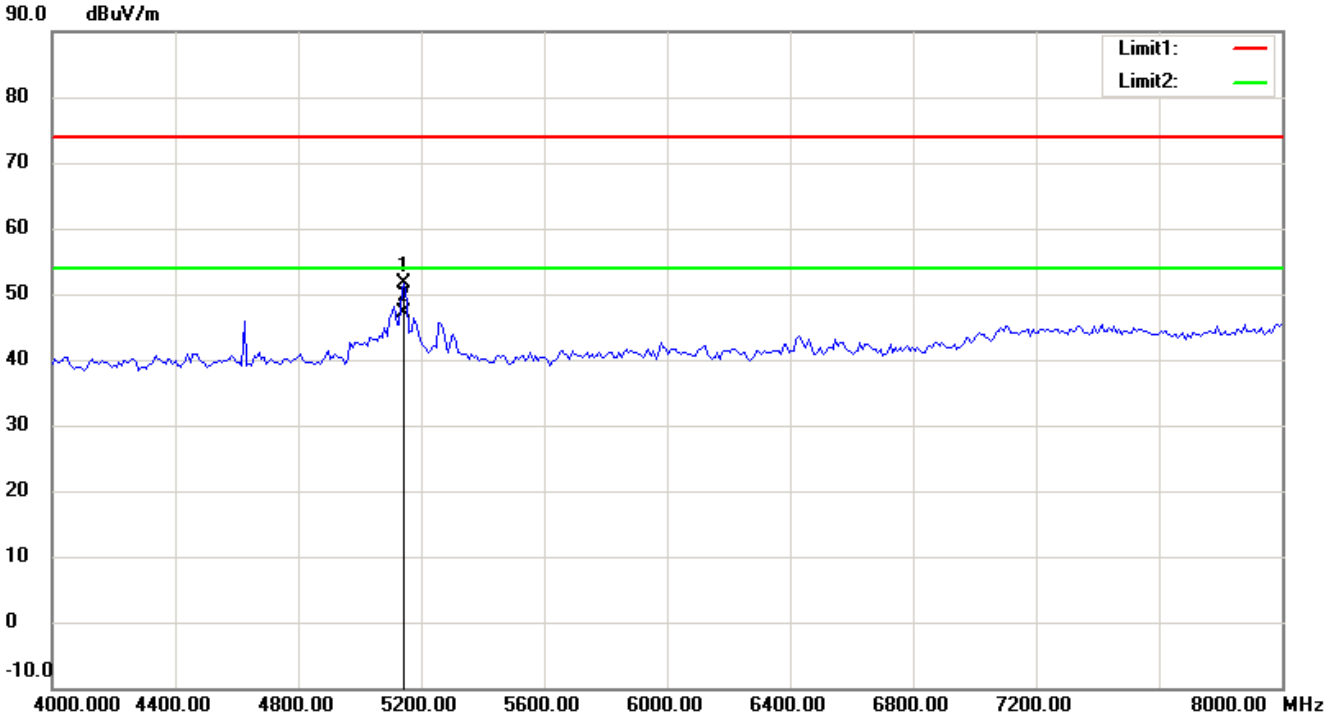
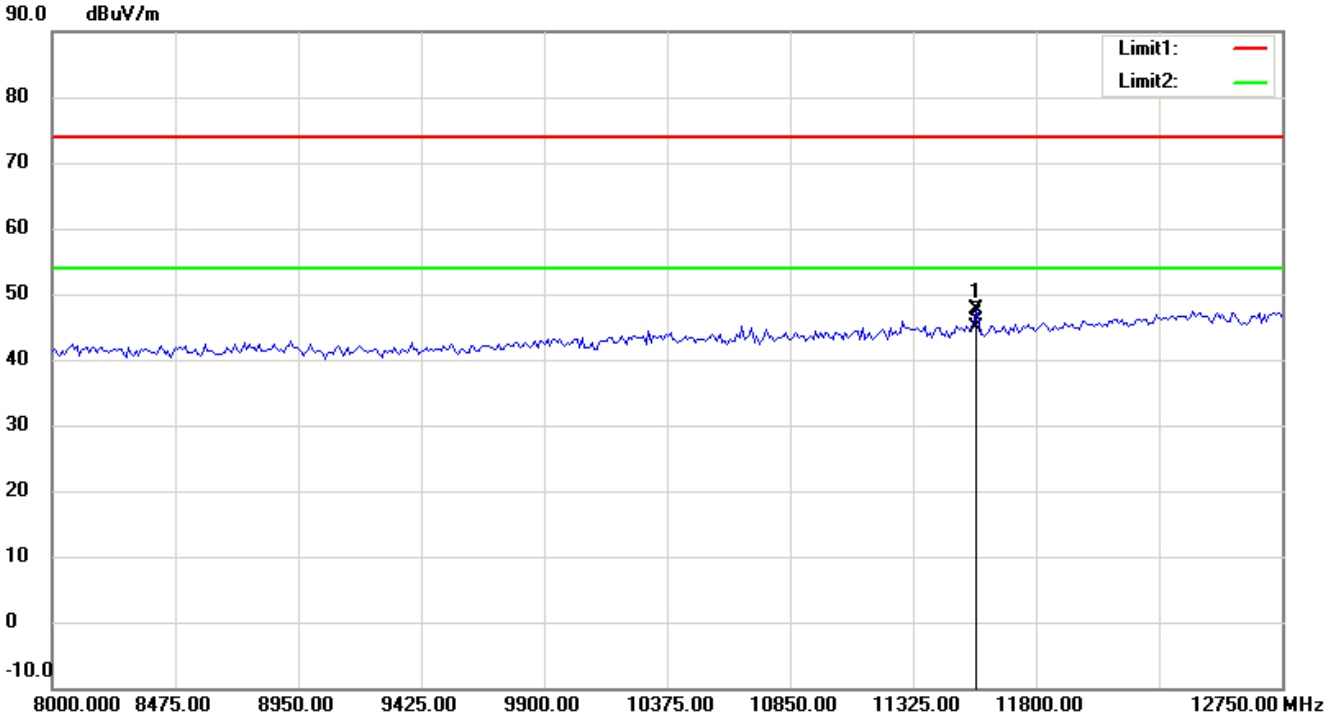
Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N





Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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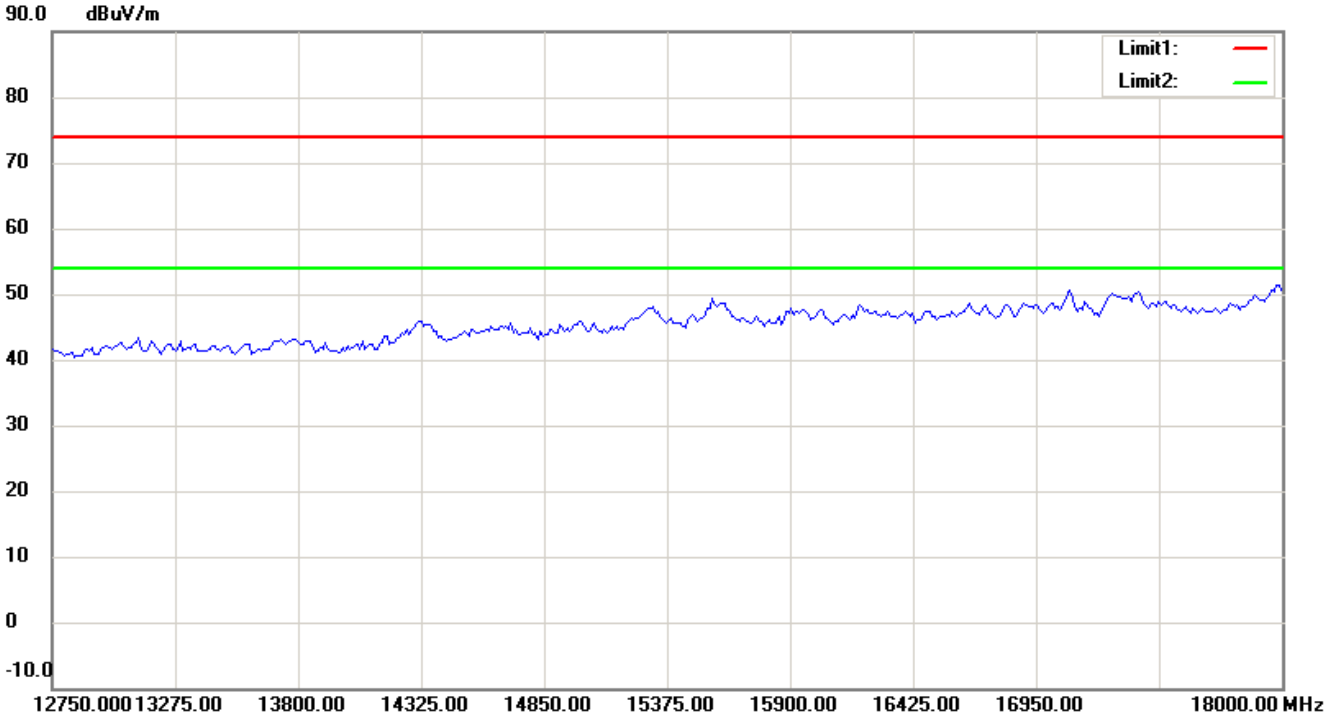
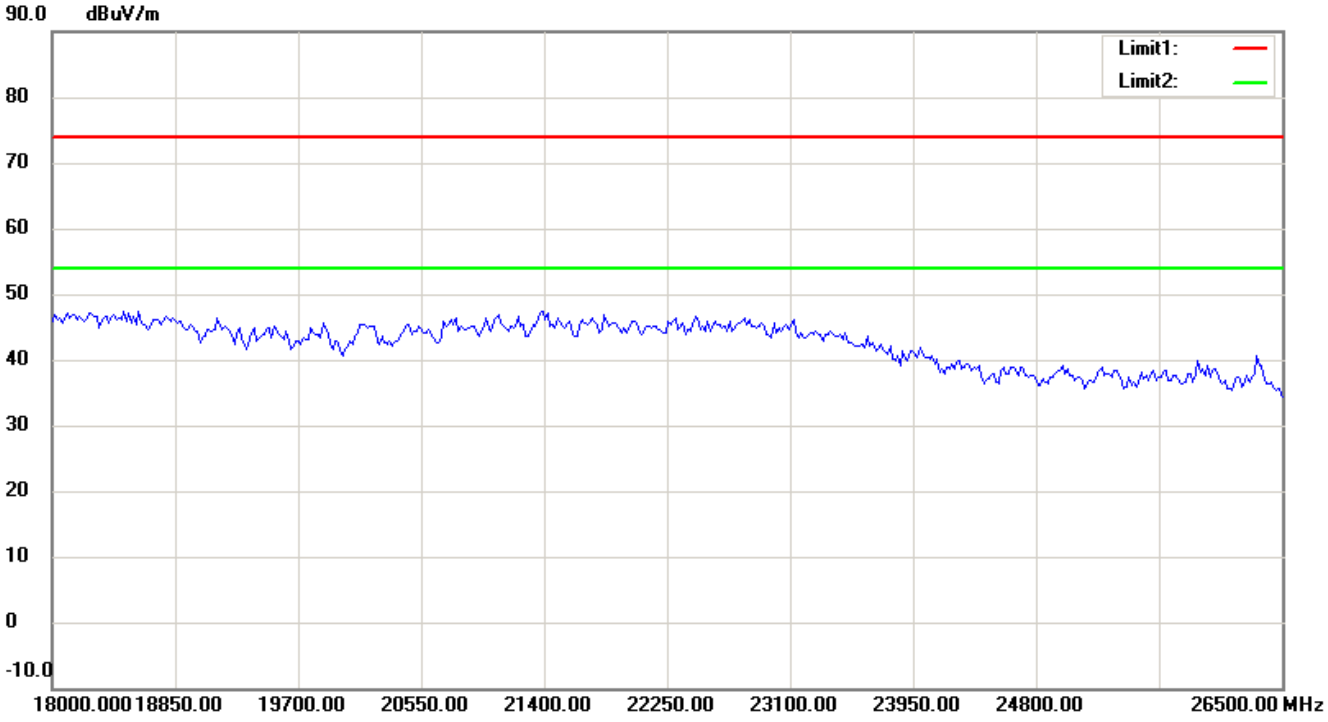
Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N





Up Line: Peak Limit Line Down Line: Ave Limit Line
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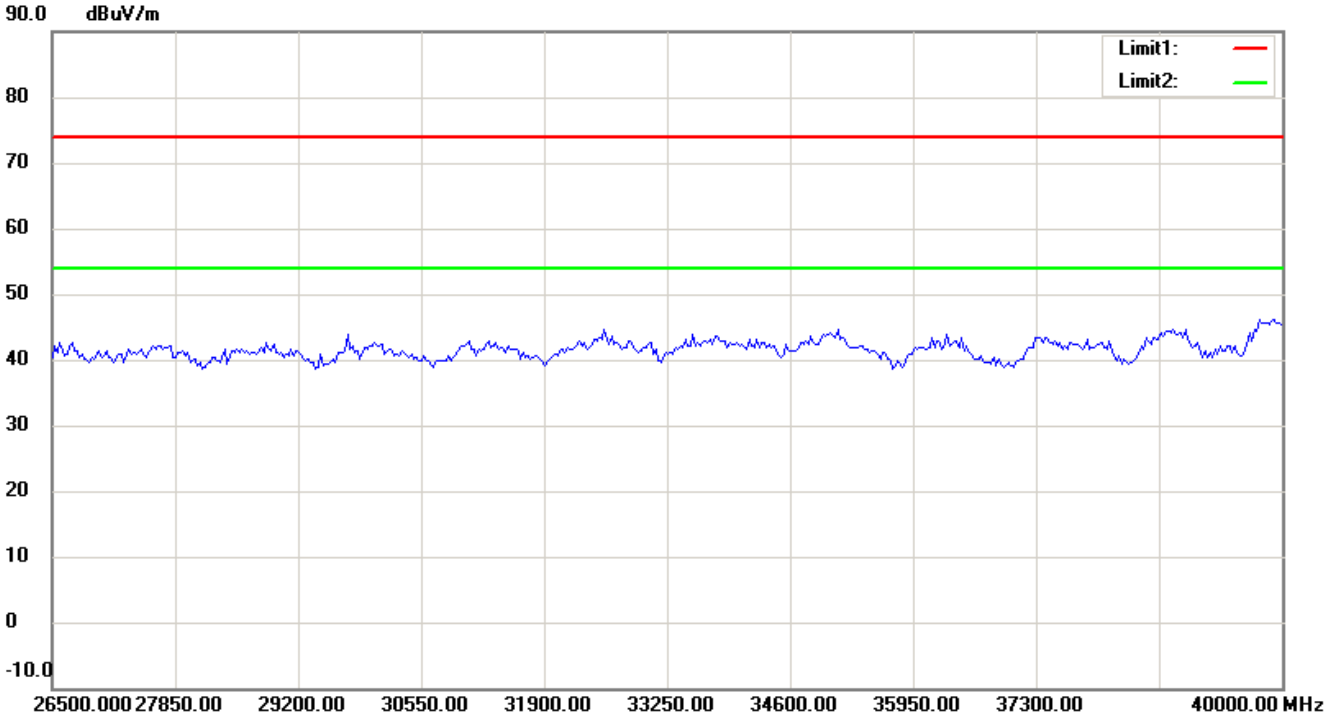
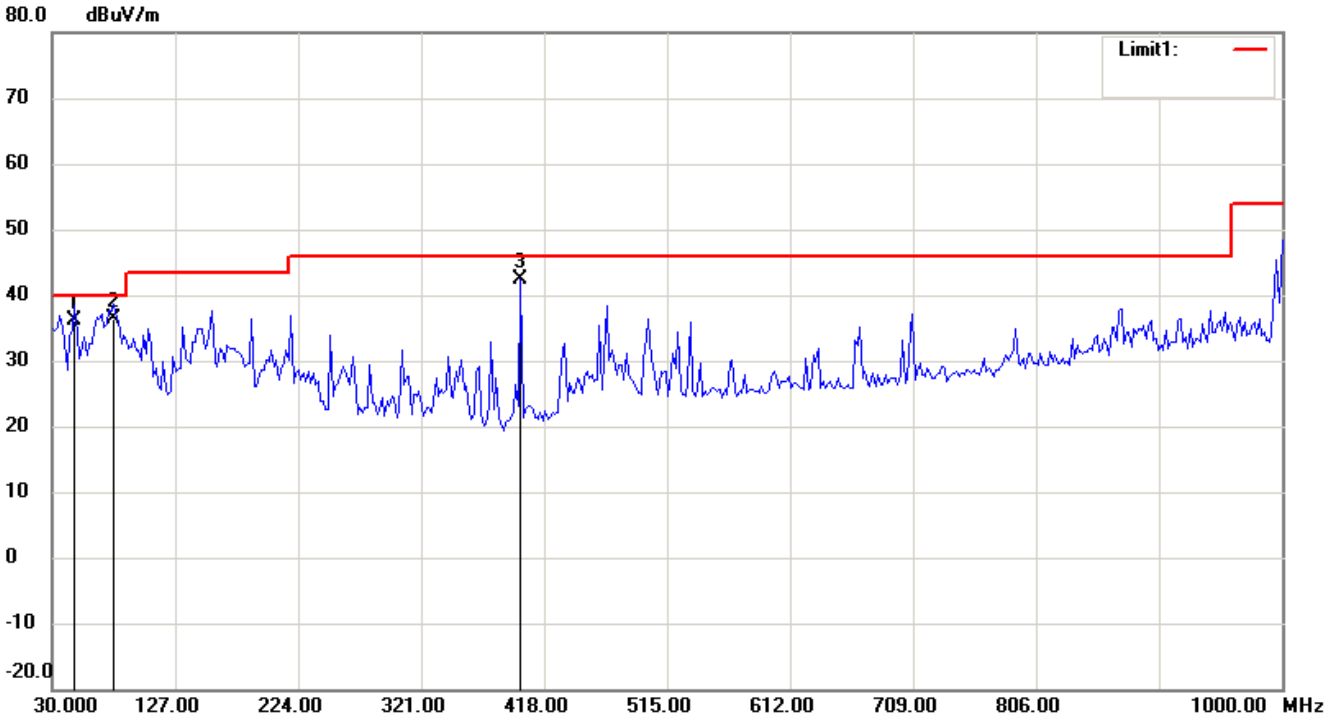
FCC ID: ODMAM5N



Antenna Polarization V



Up Line: Peak Limit Line Down Line: Ave Limit Line
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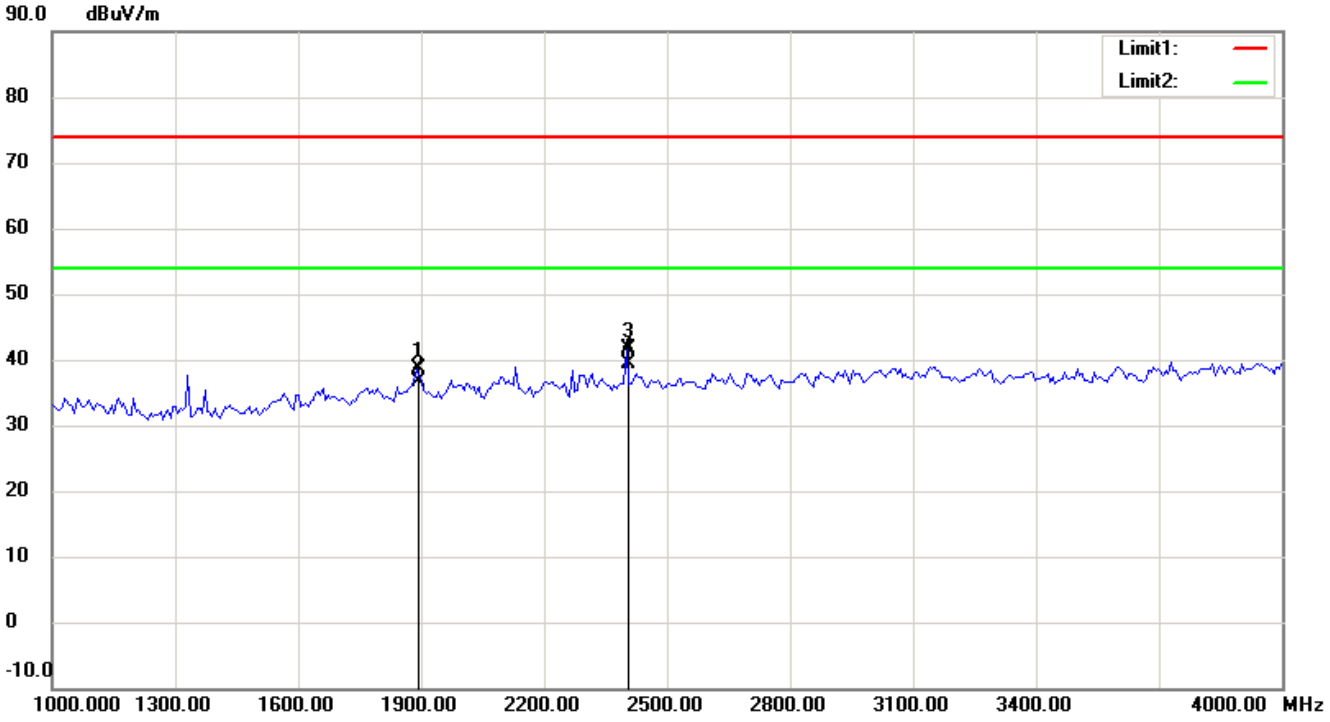
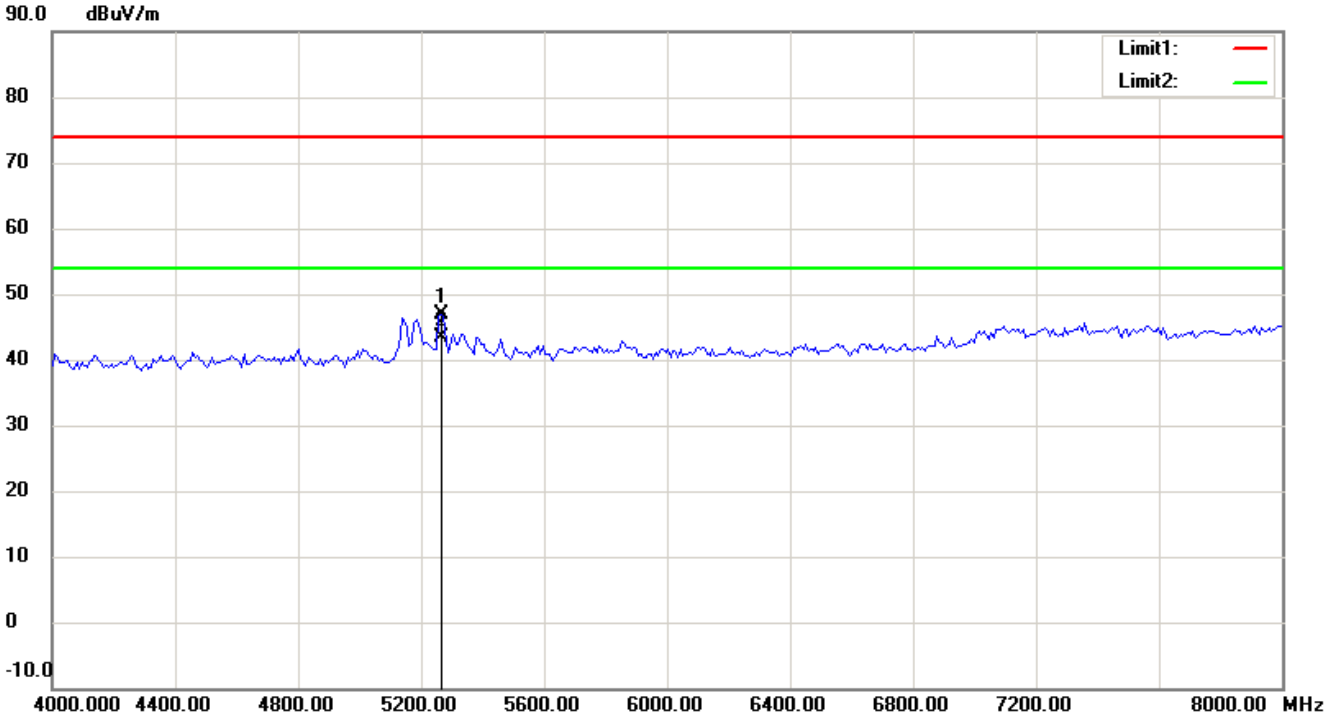
Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N





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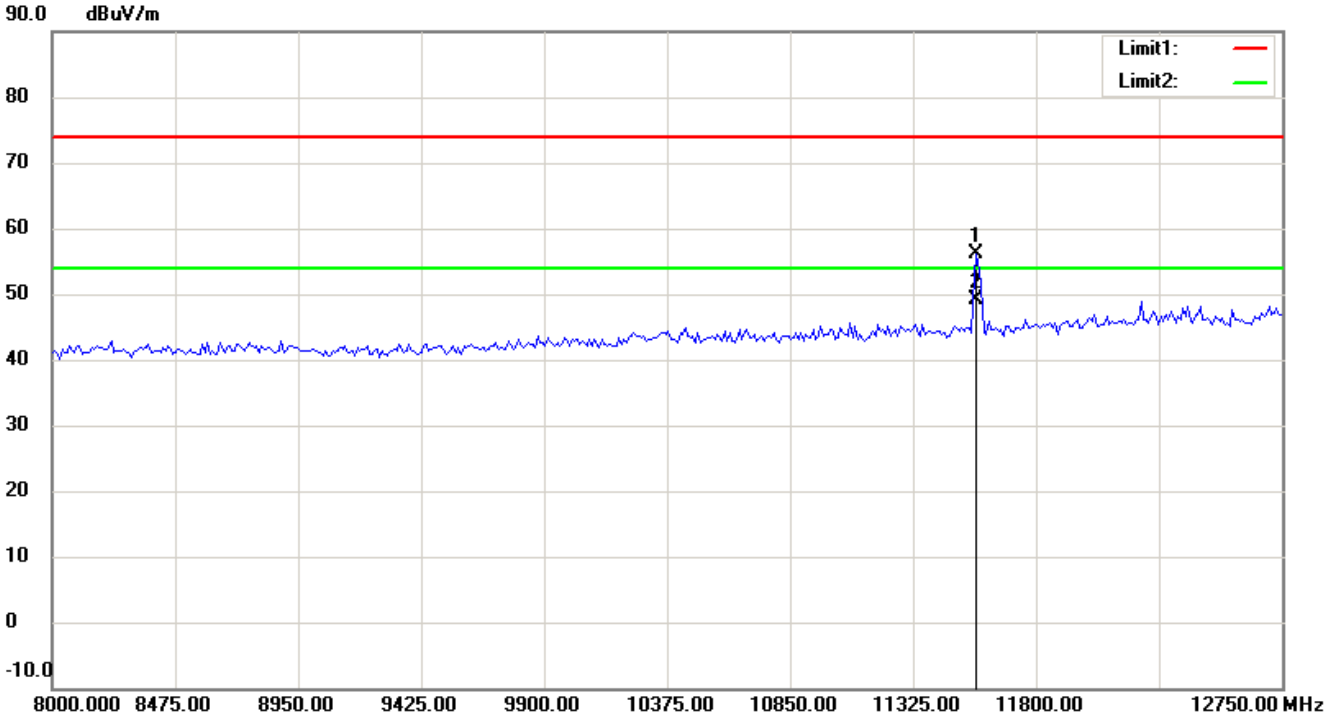
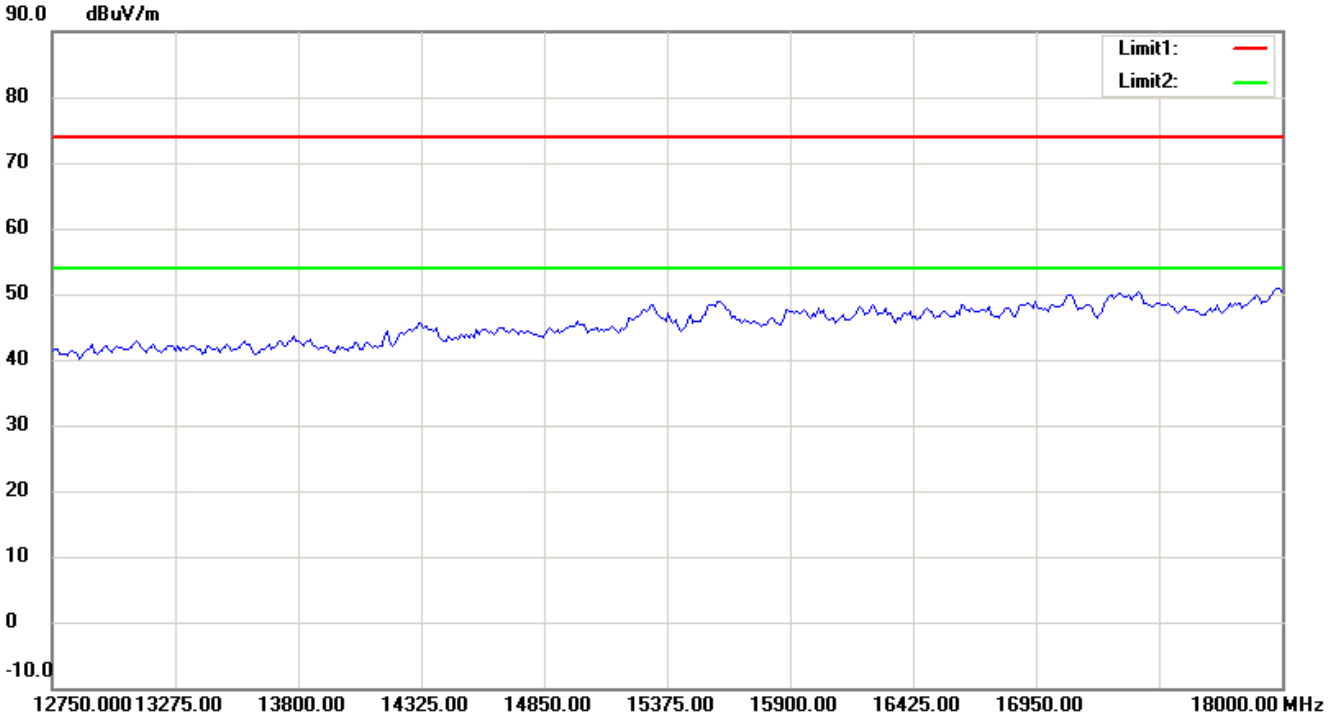
Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N





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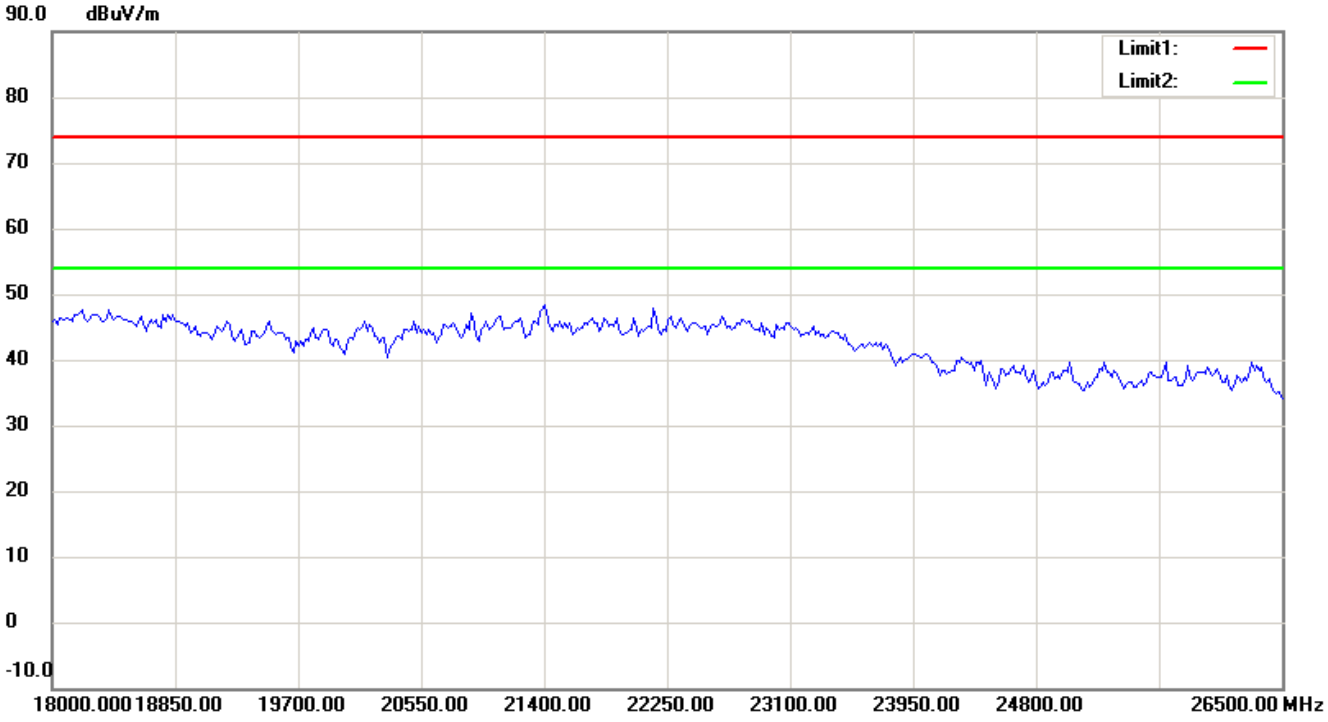
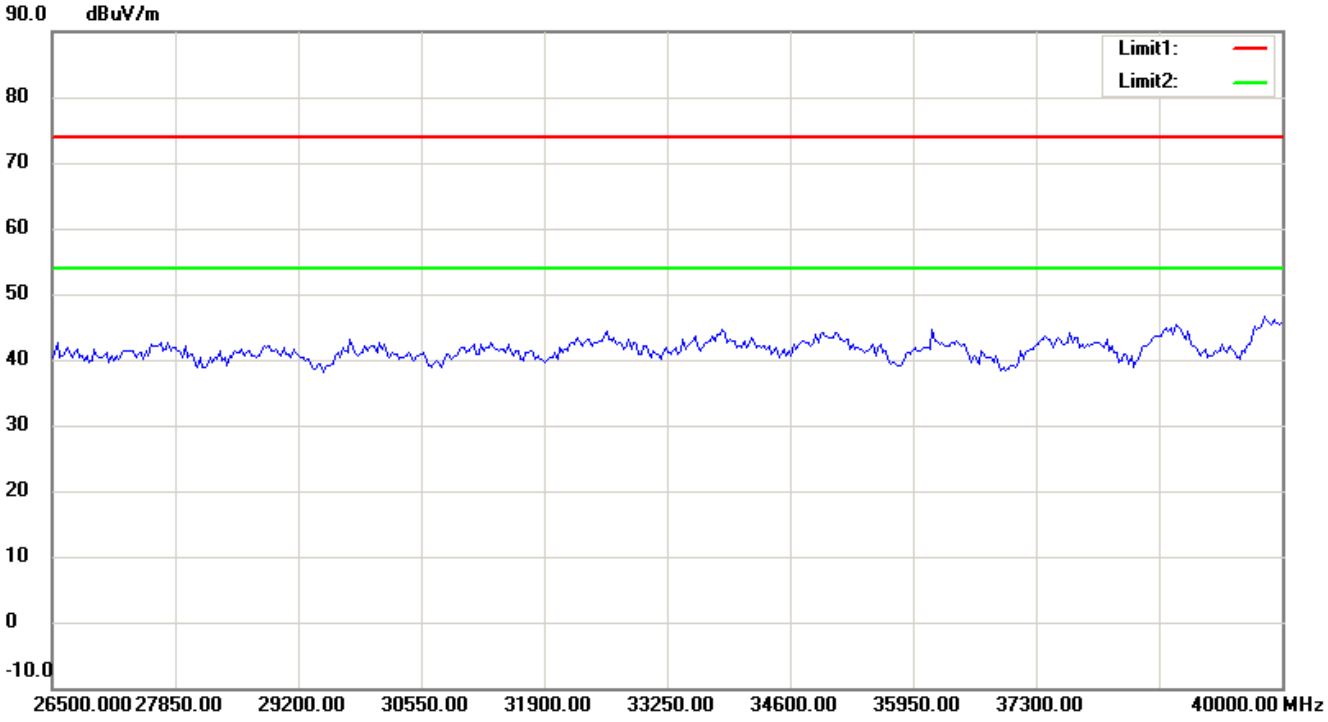
Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N





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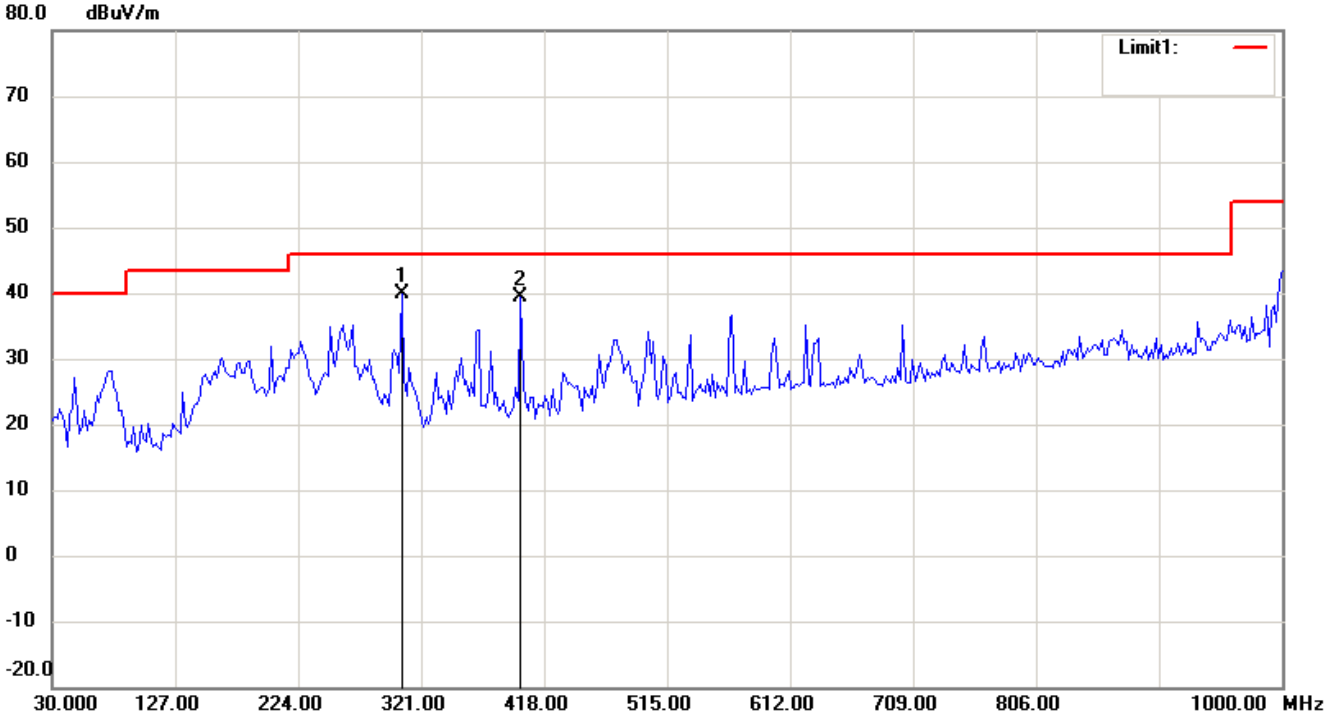
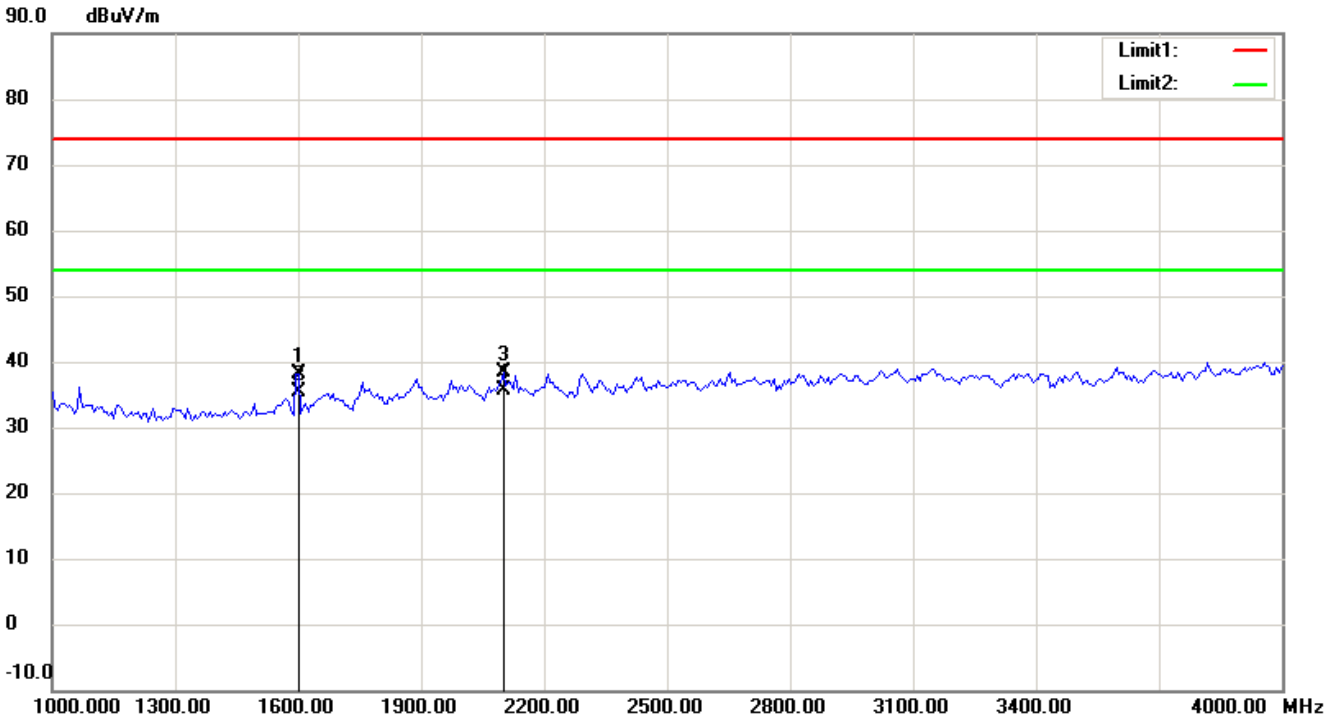
Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N

801.11n 20M CH165
Antenna Polarization H





Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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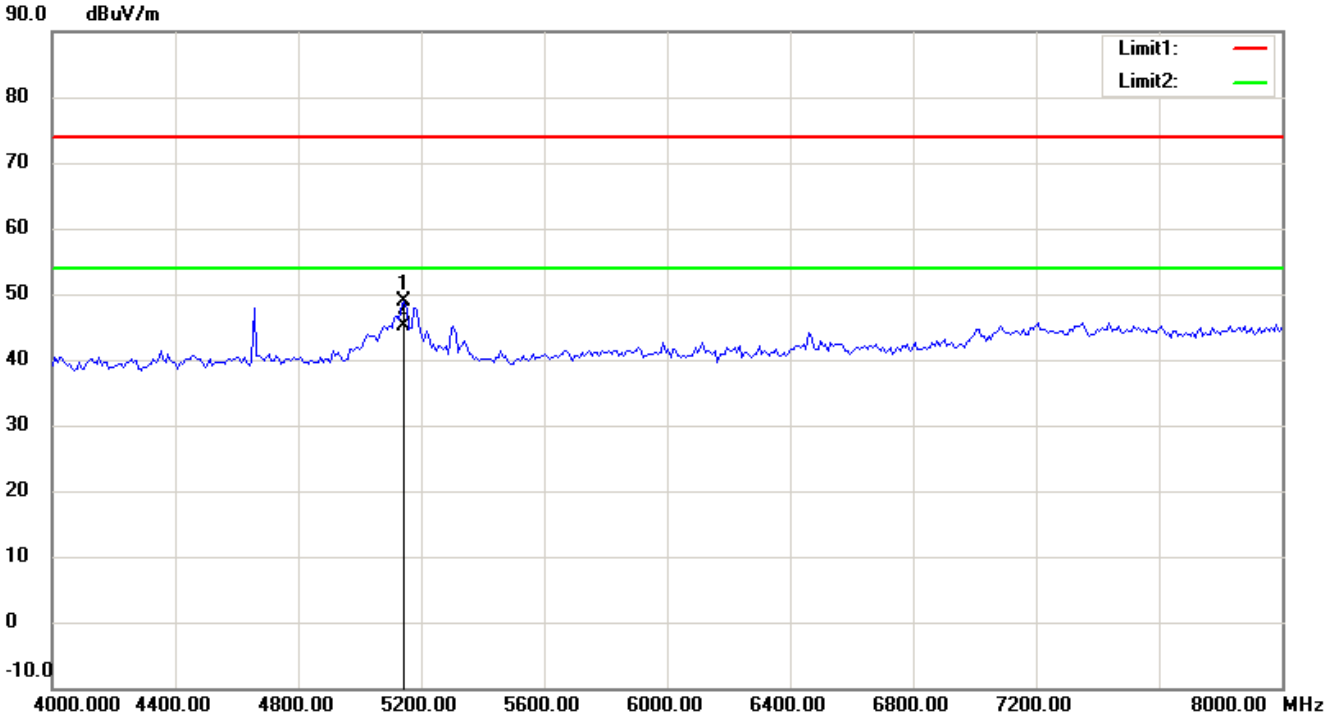
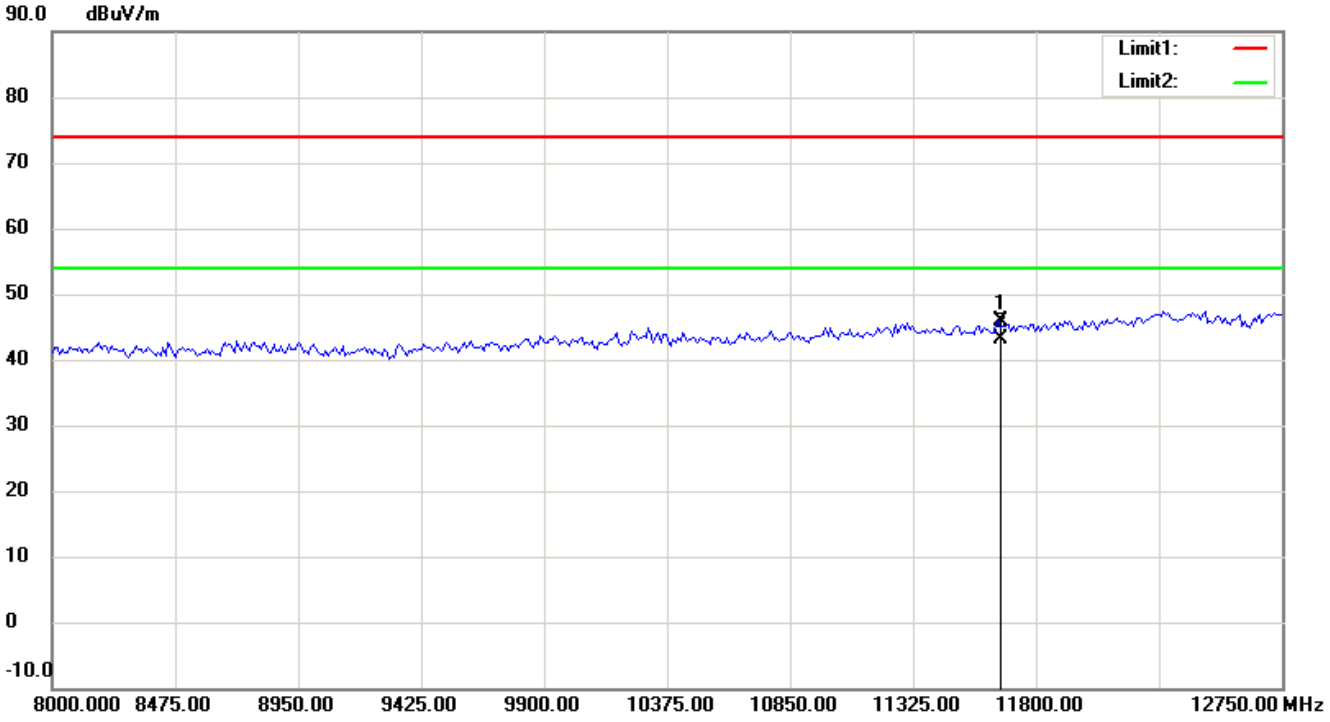
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N





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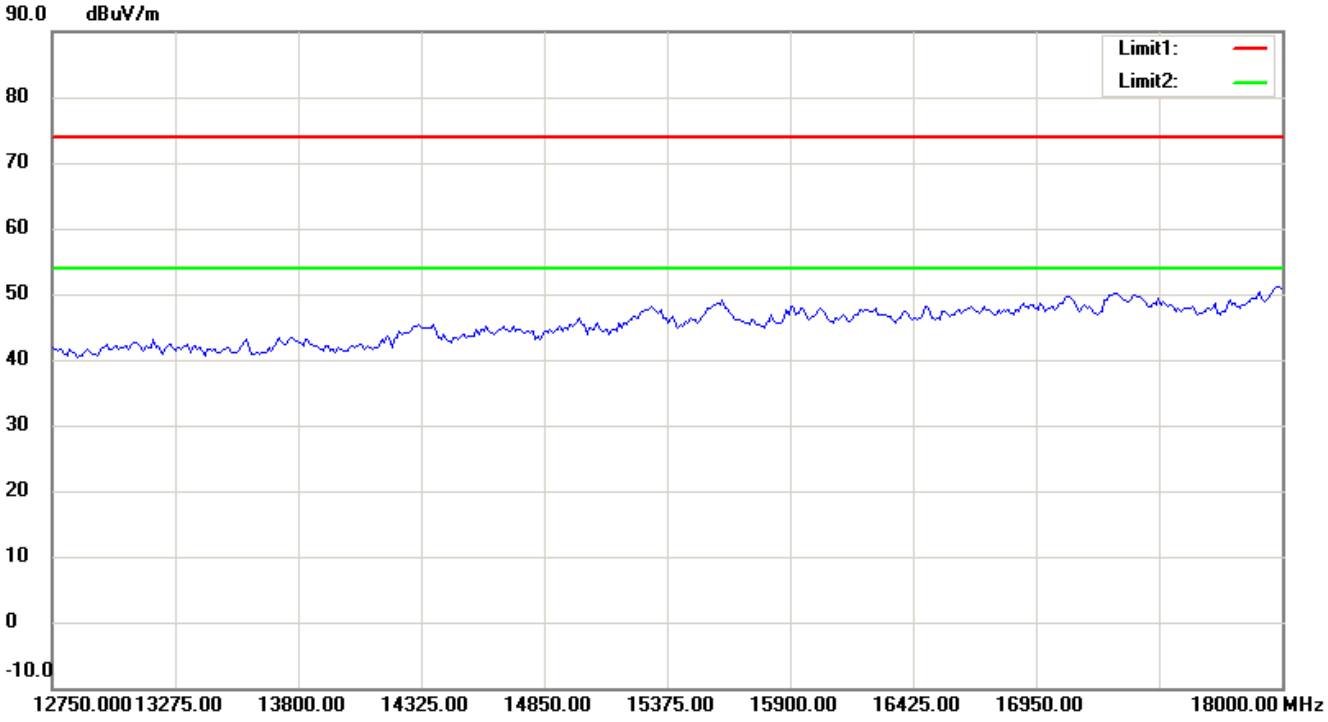
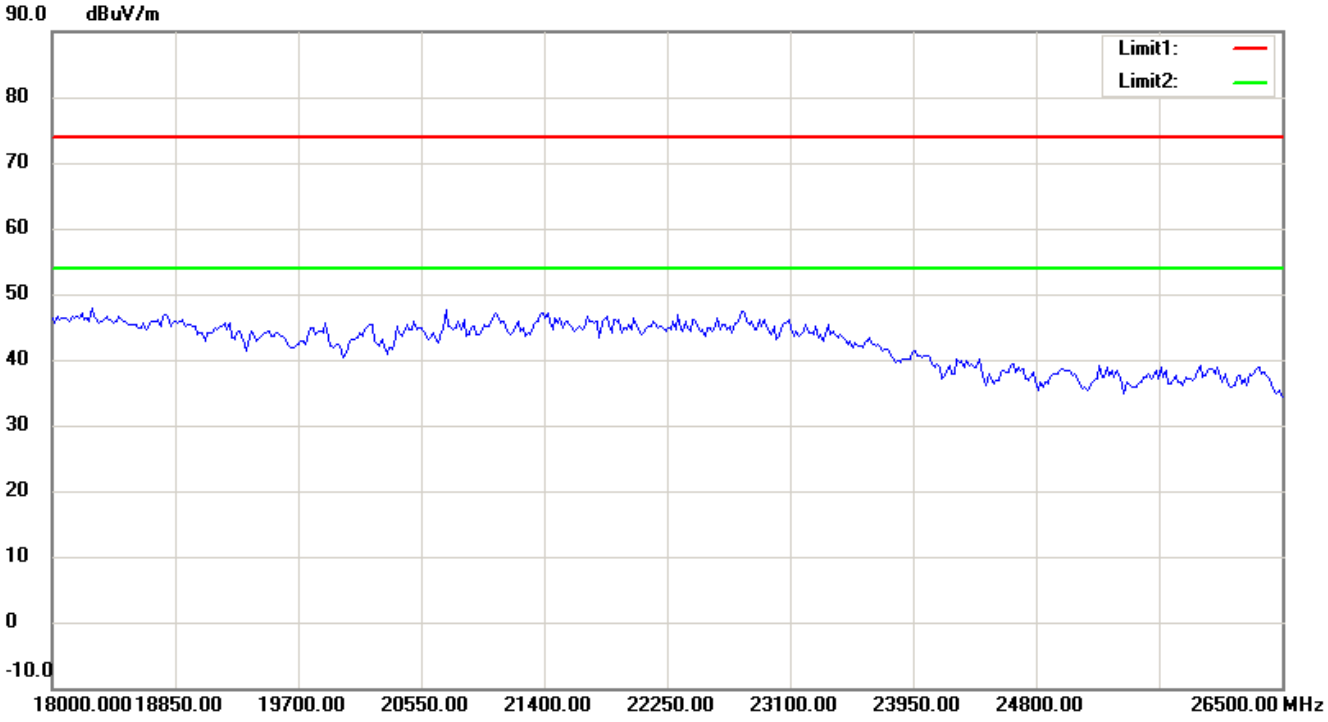
Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N





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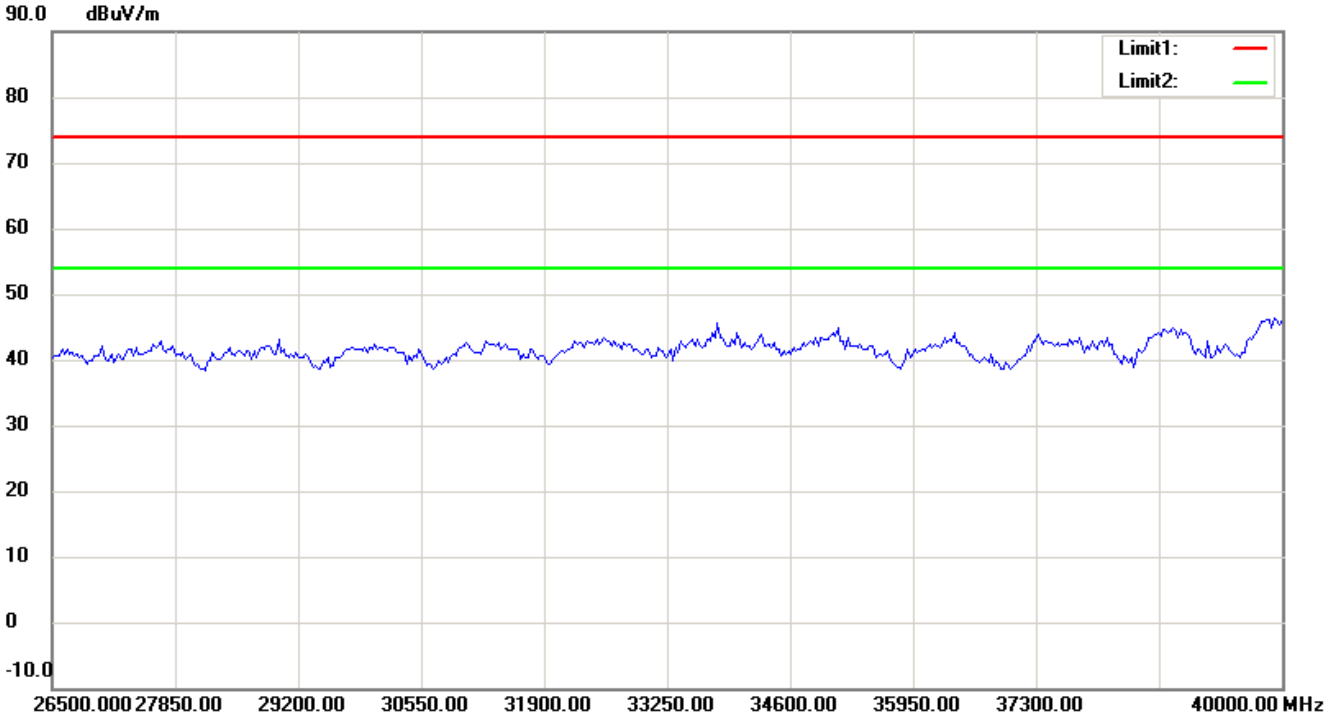
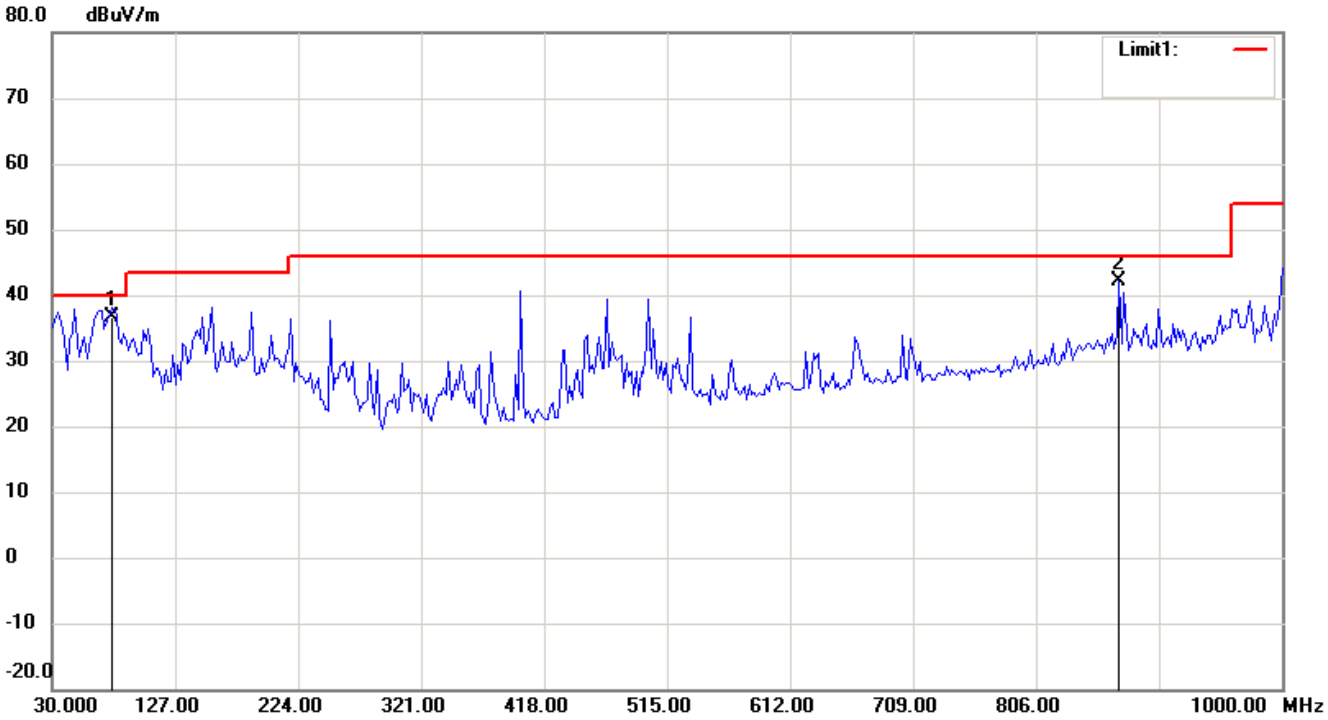
Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N



Antenna Polarization V



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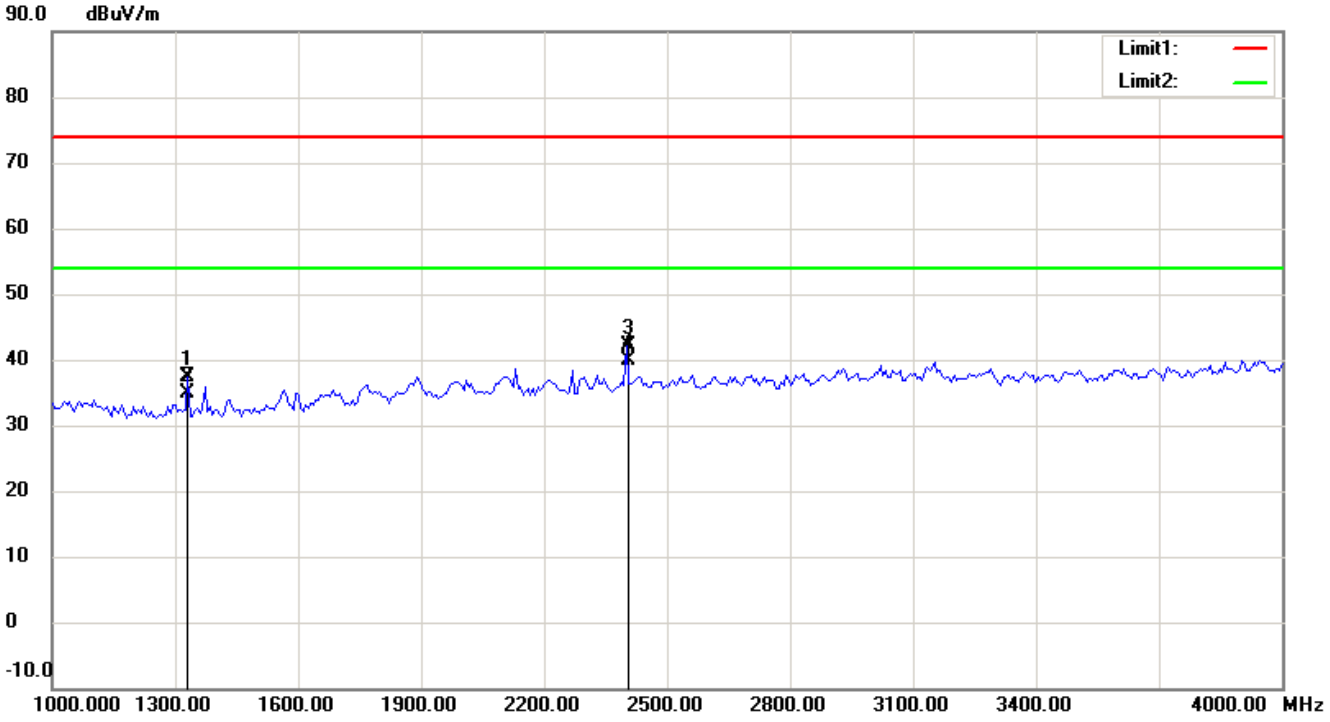
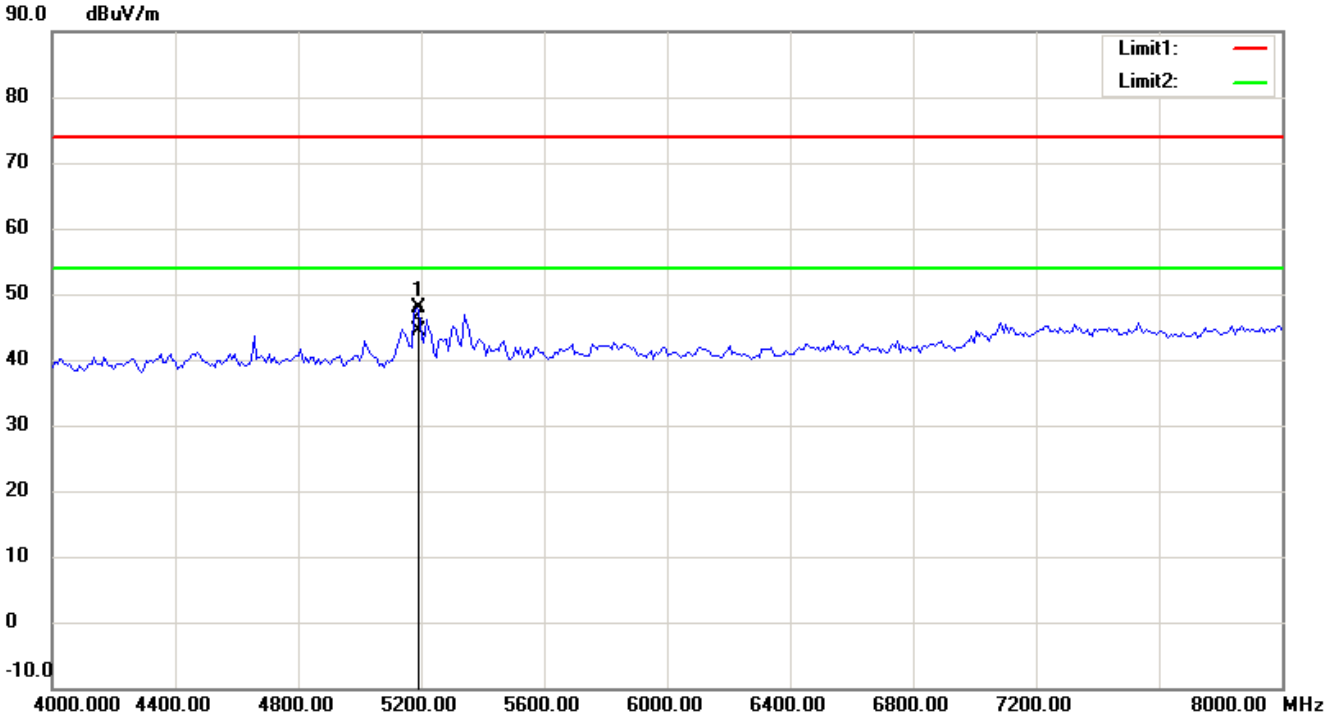
Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N





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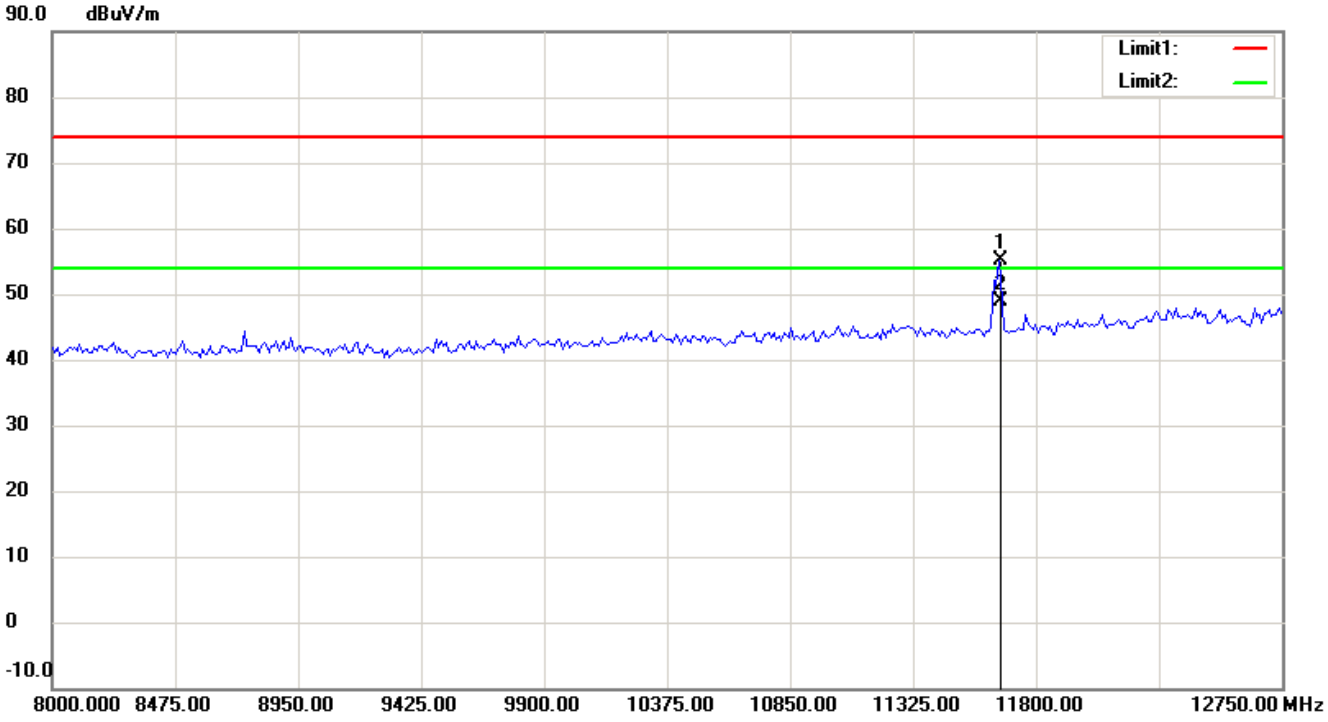

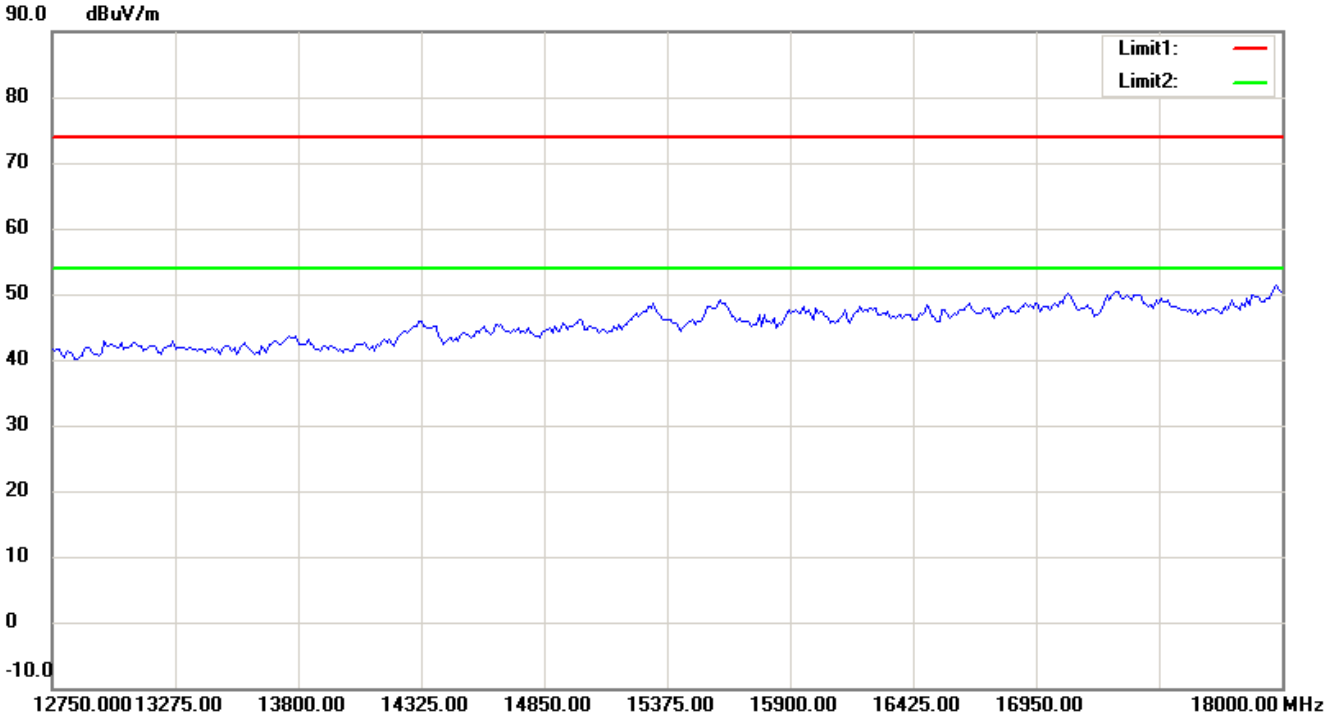

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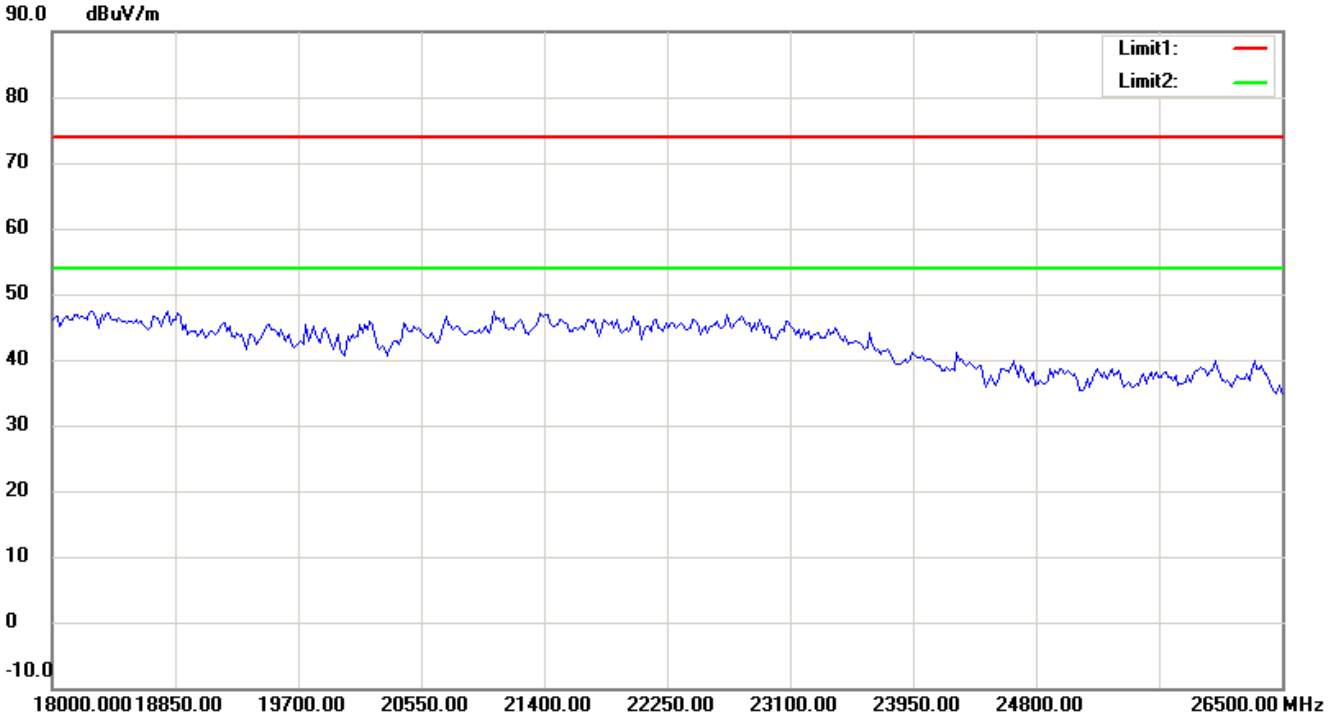
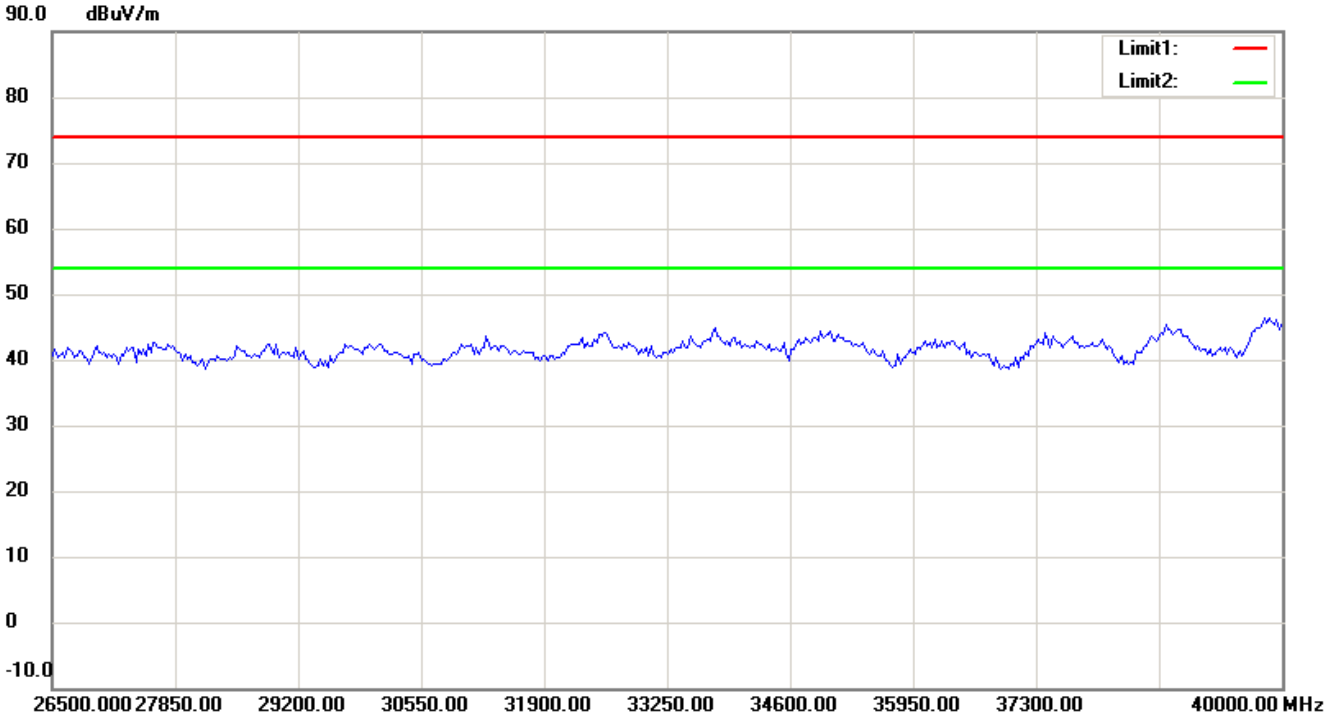
FCC ID: ODMAM5N





Up Line: Peak Limit Line Down Line: Ave Limit Line
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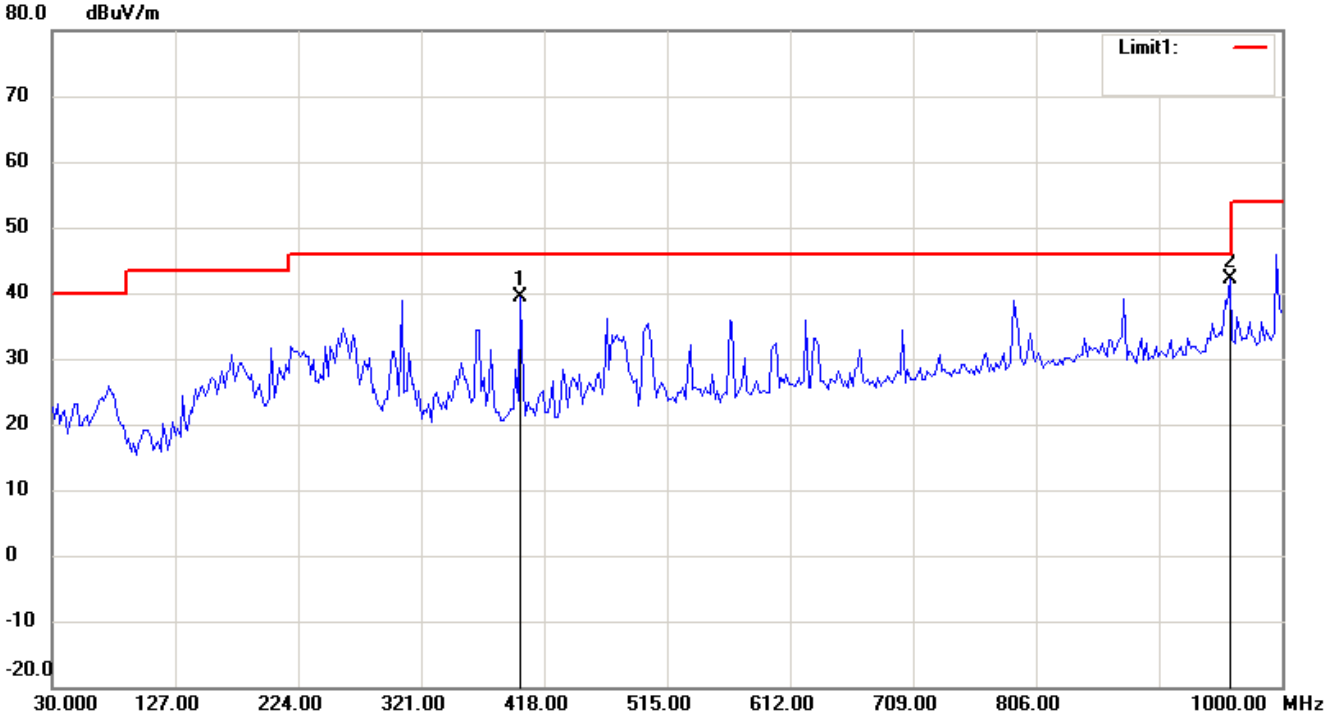
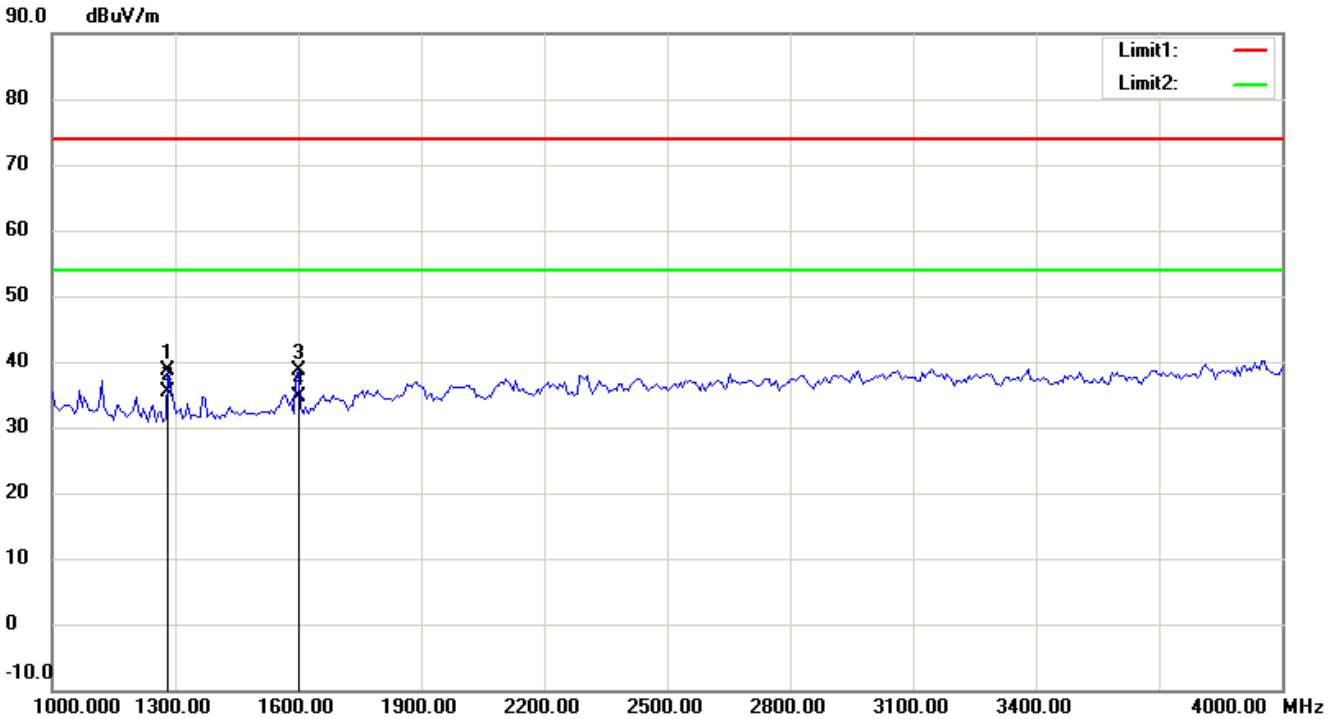
Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N

801.11n 40M CH151
Antenna Polarization H





Up Line: Peak Limit Line Down Line: Ave Limit Line
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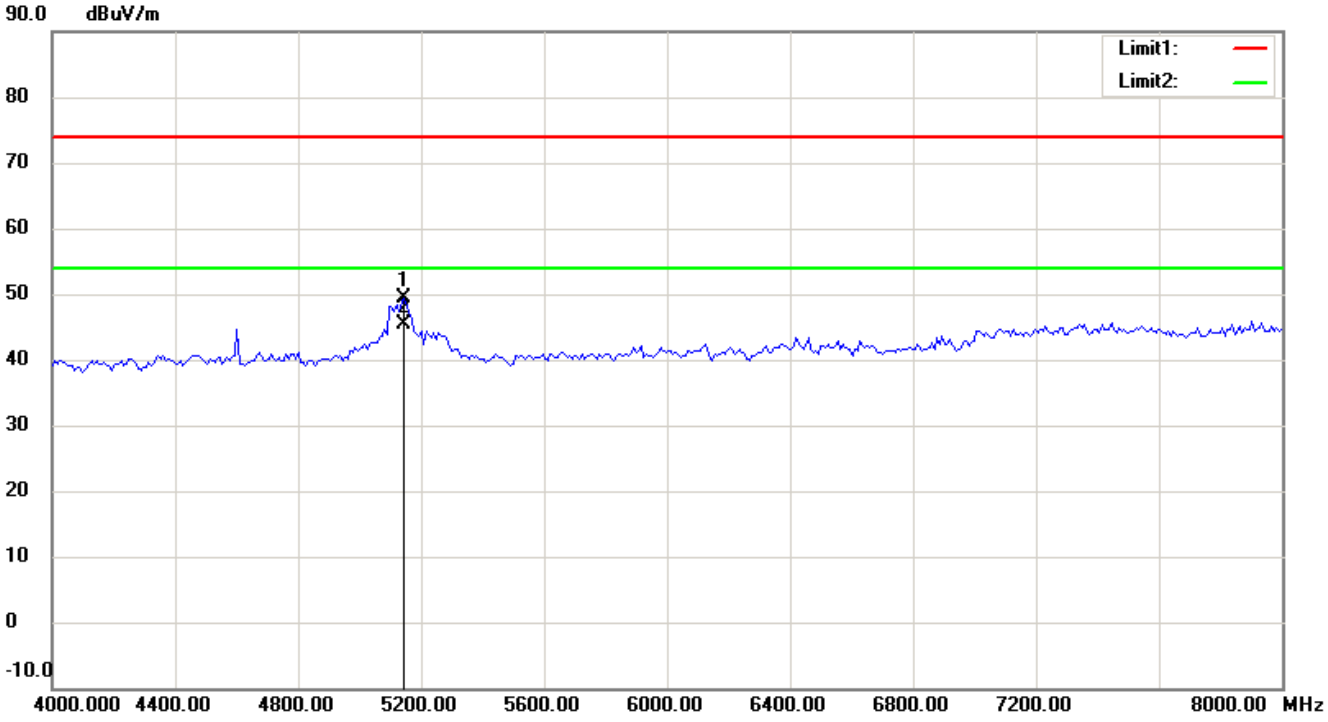
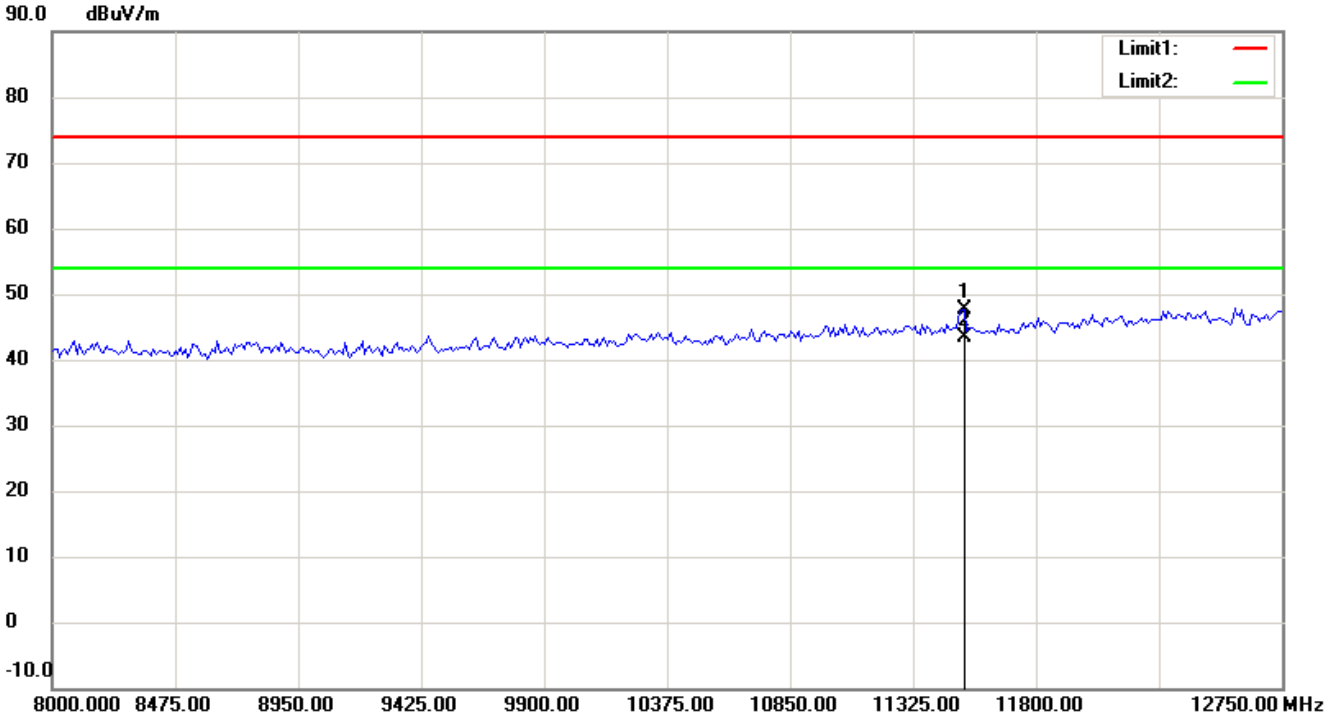
Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N





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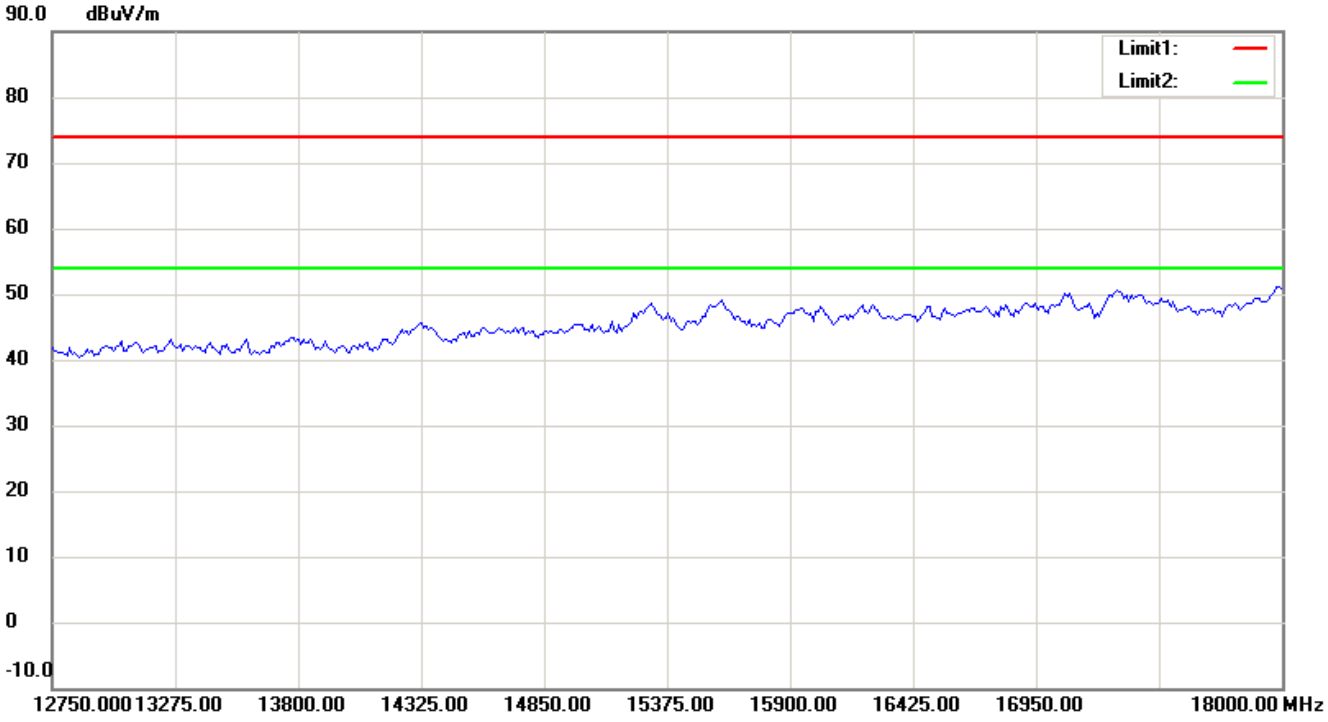

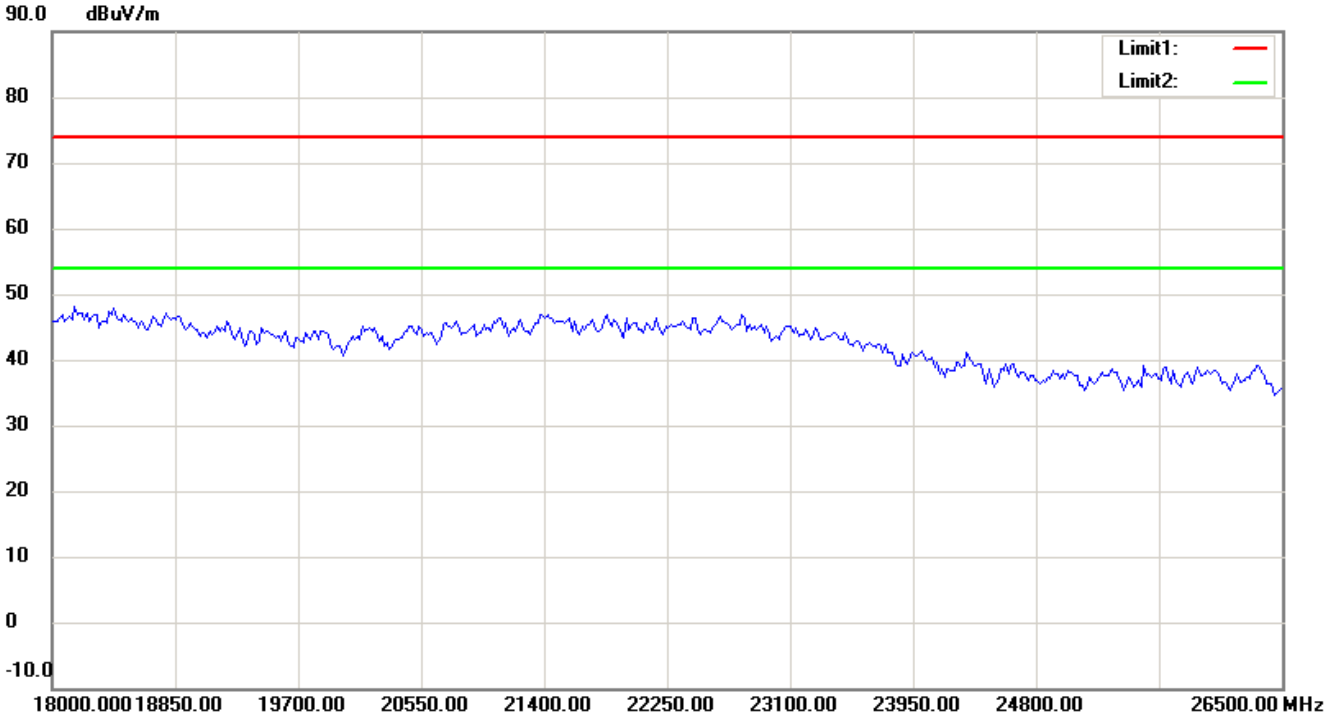

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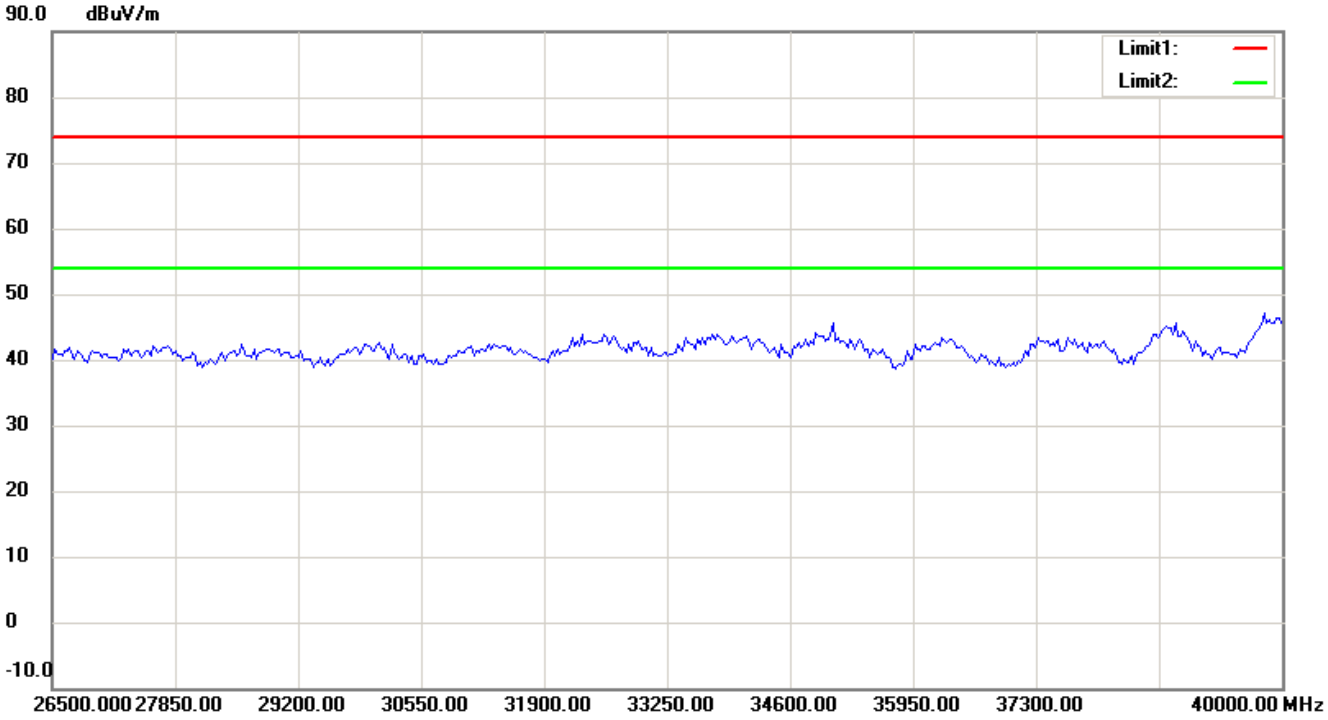
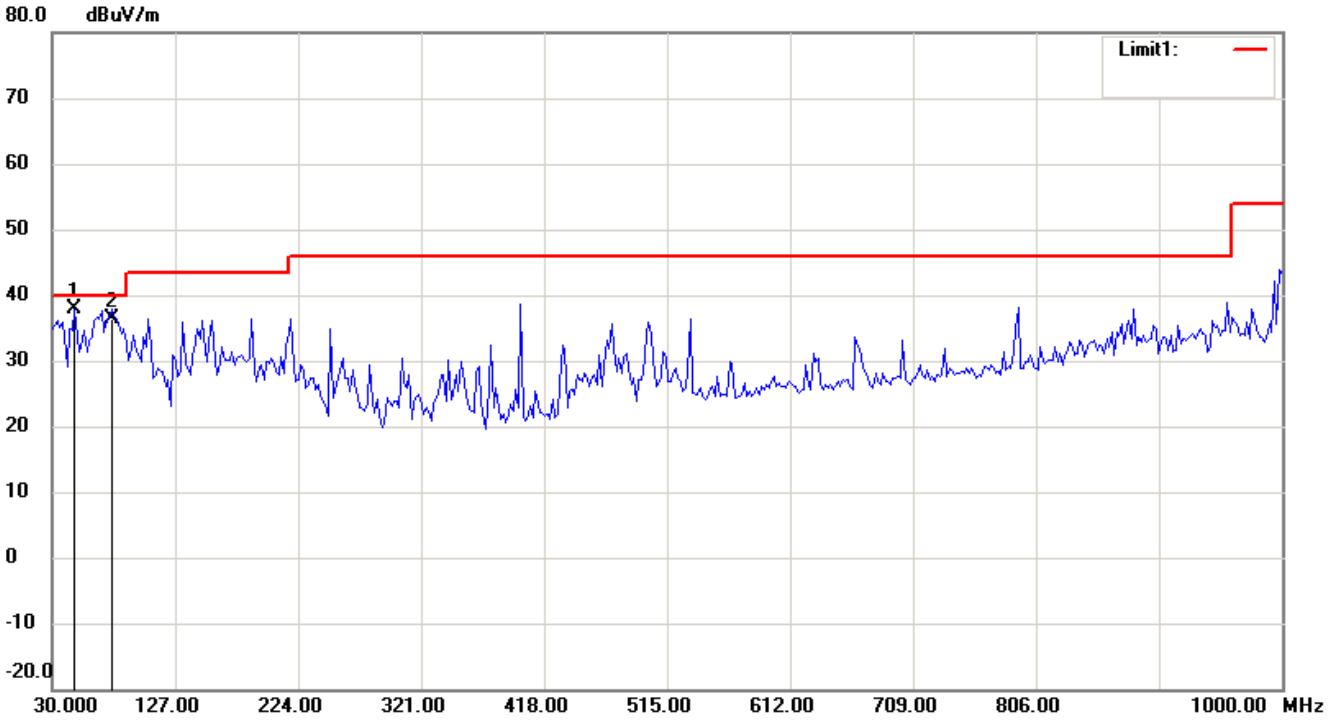
FCC ID: ODMAM5N



Antenna Polarization V



Up Line: Peak Limit Line Down Line: Ave Limit Line
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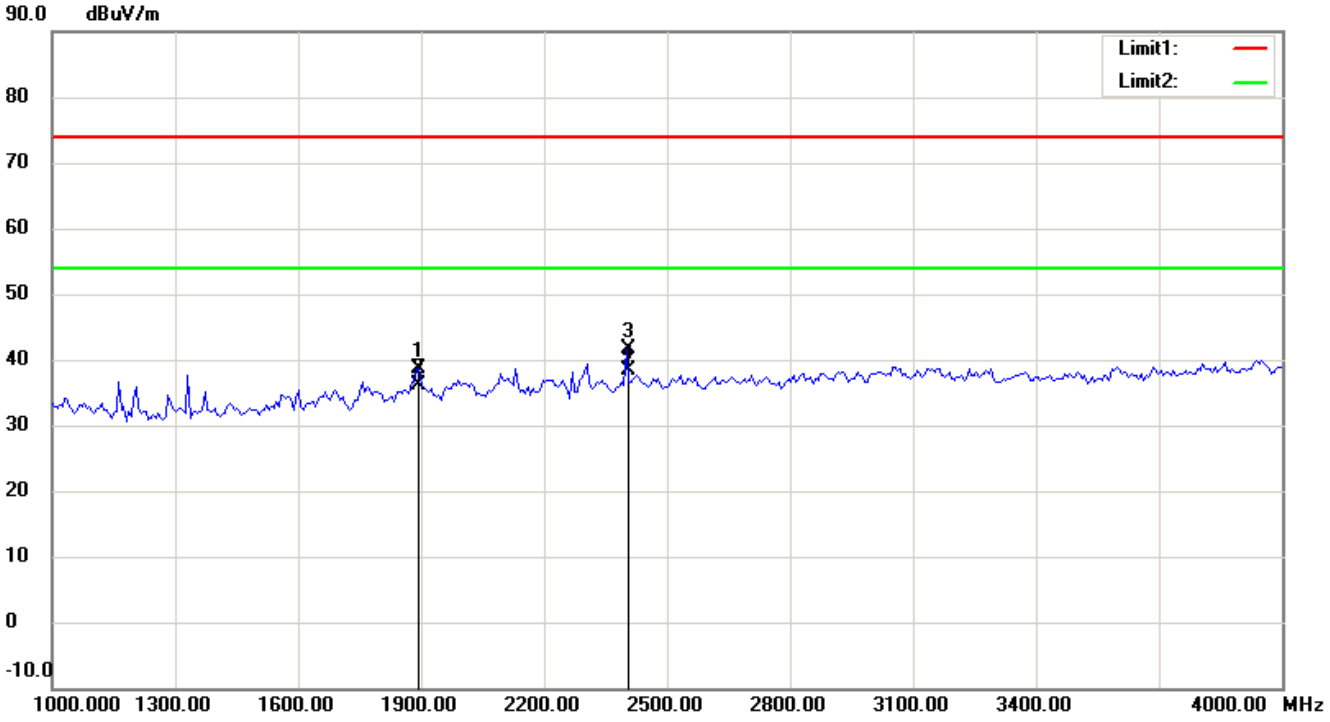
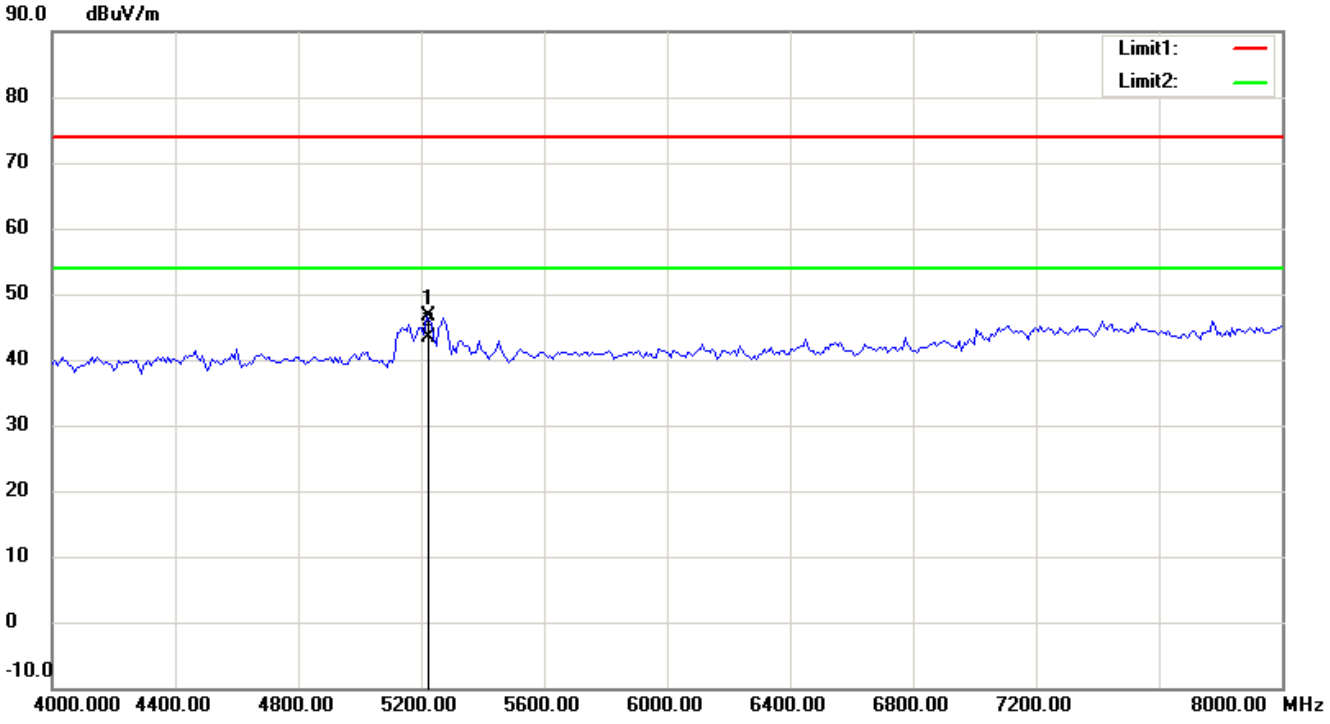
Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N





Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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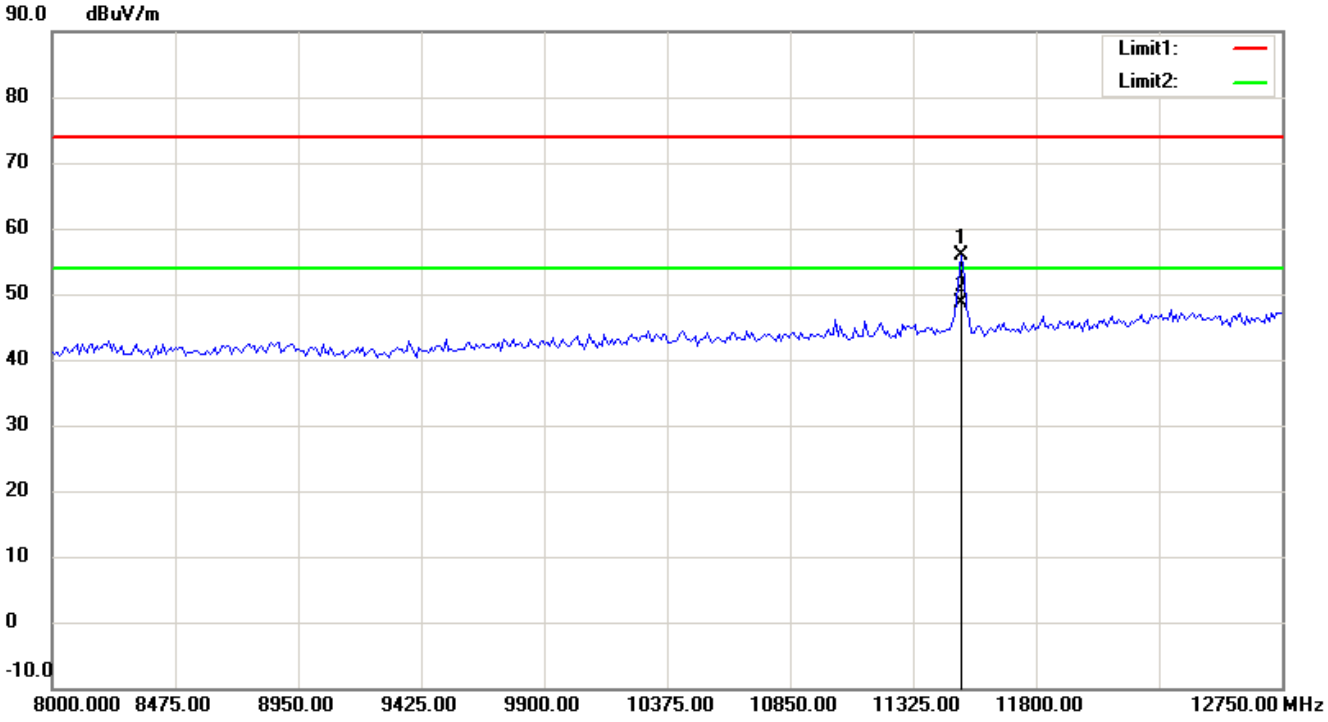
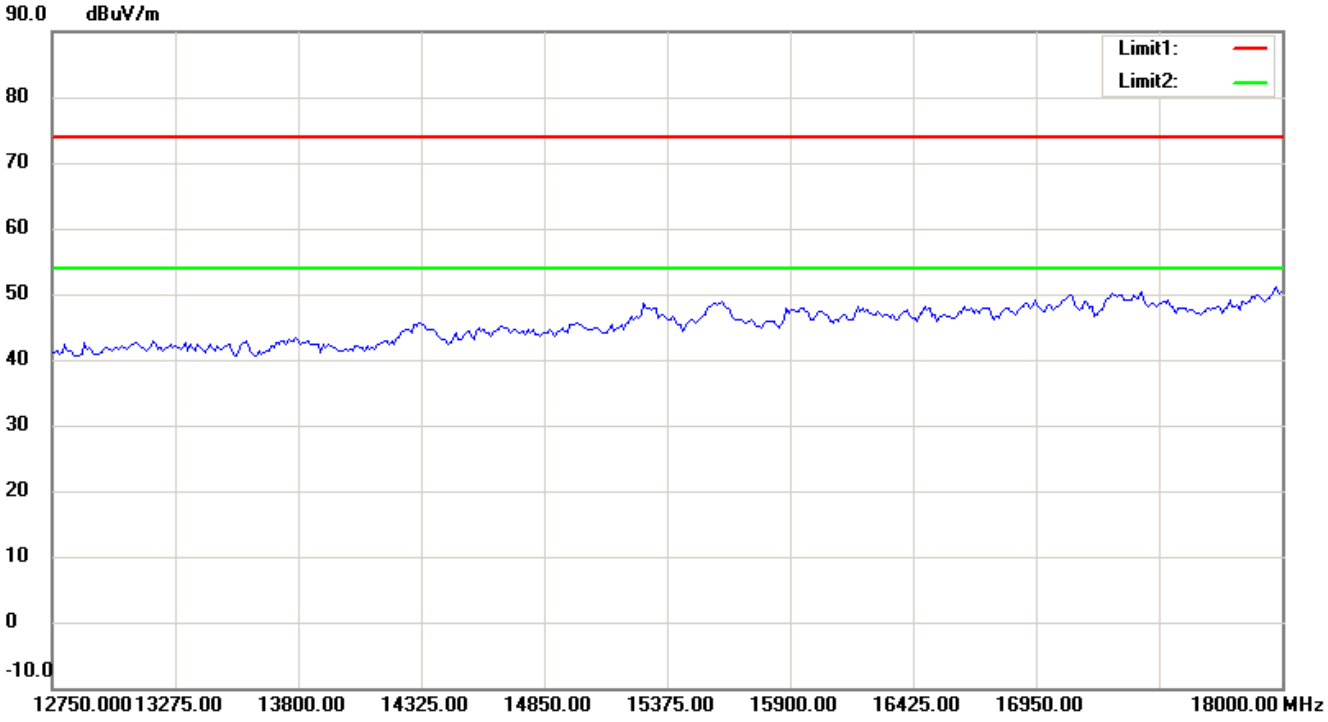
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N





Up Line: Peak Limit Line Down Line: Ave Limit Line
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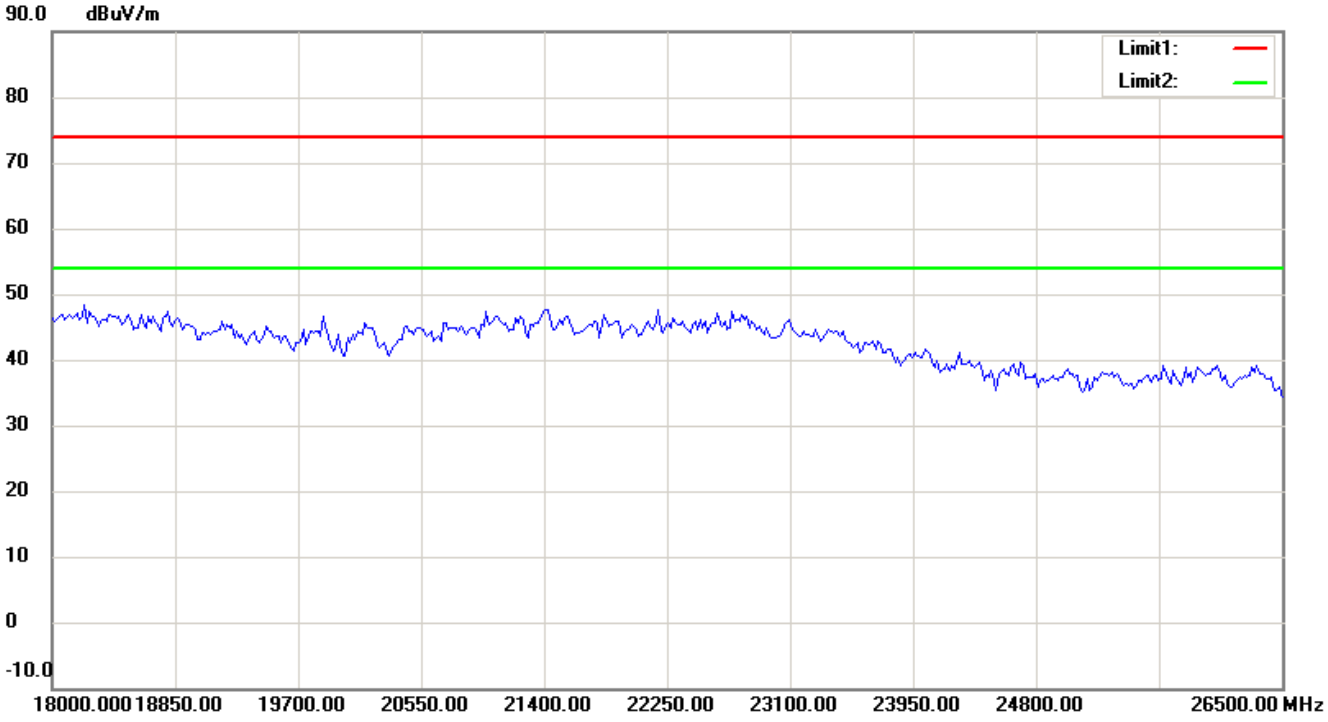
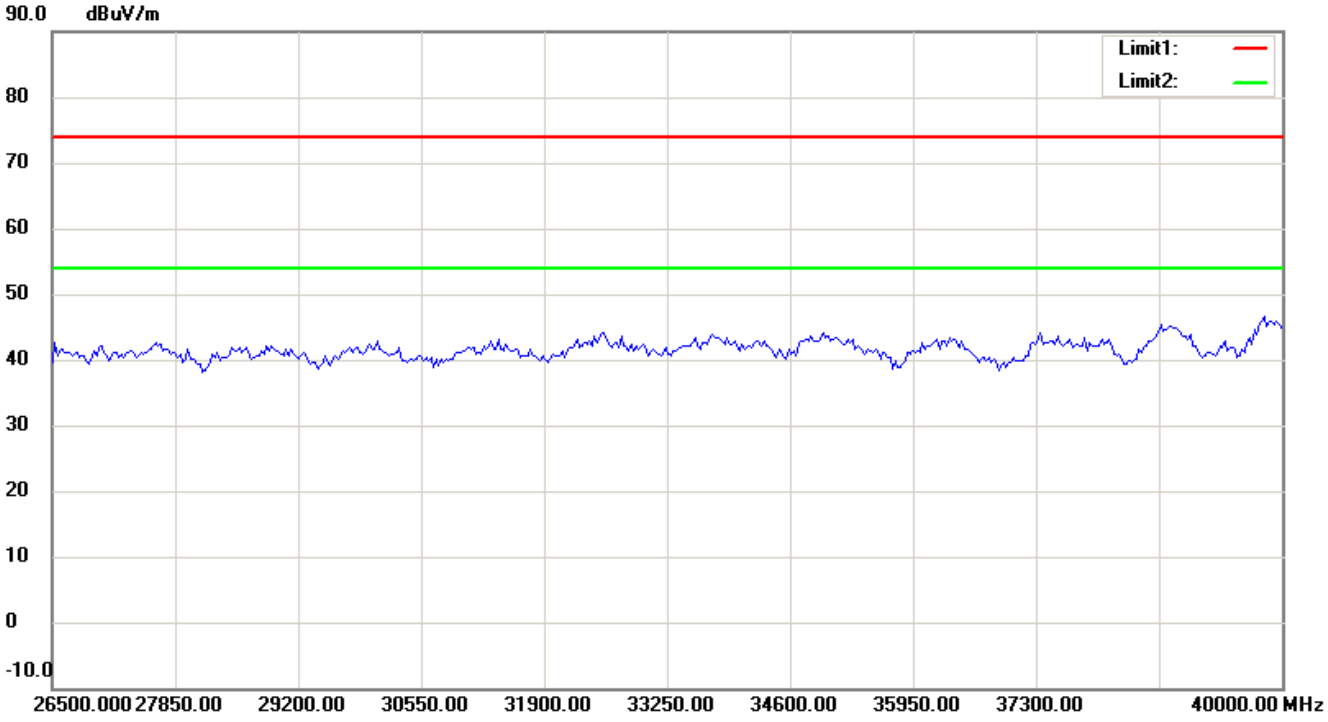
Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N





Up Line: Peak Limit Line Down Line: Ave Limit Line
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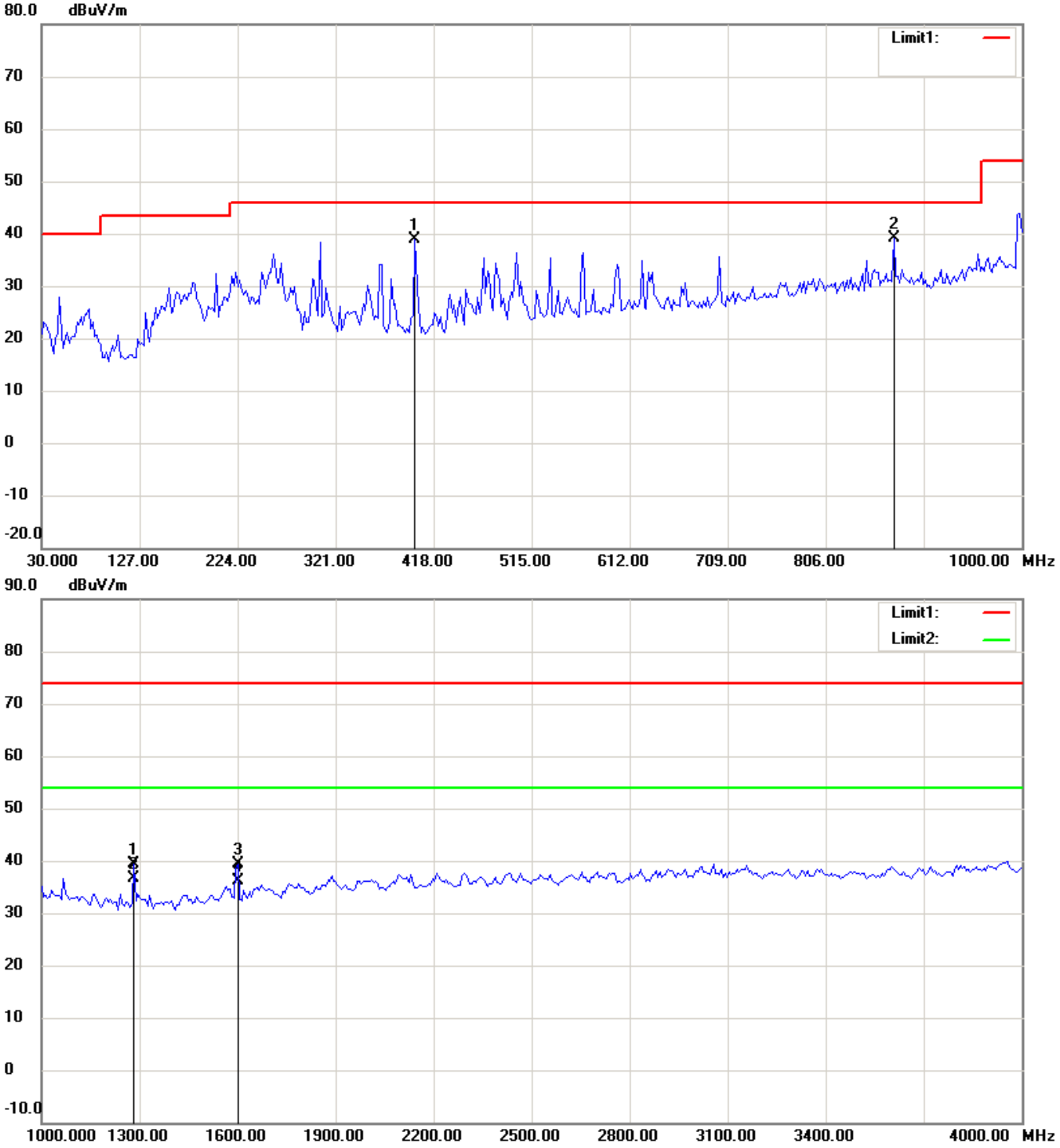
Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N

801.11n 40M CH159
Antenna Polarization H



Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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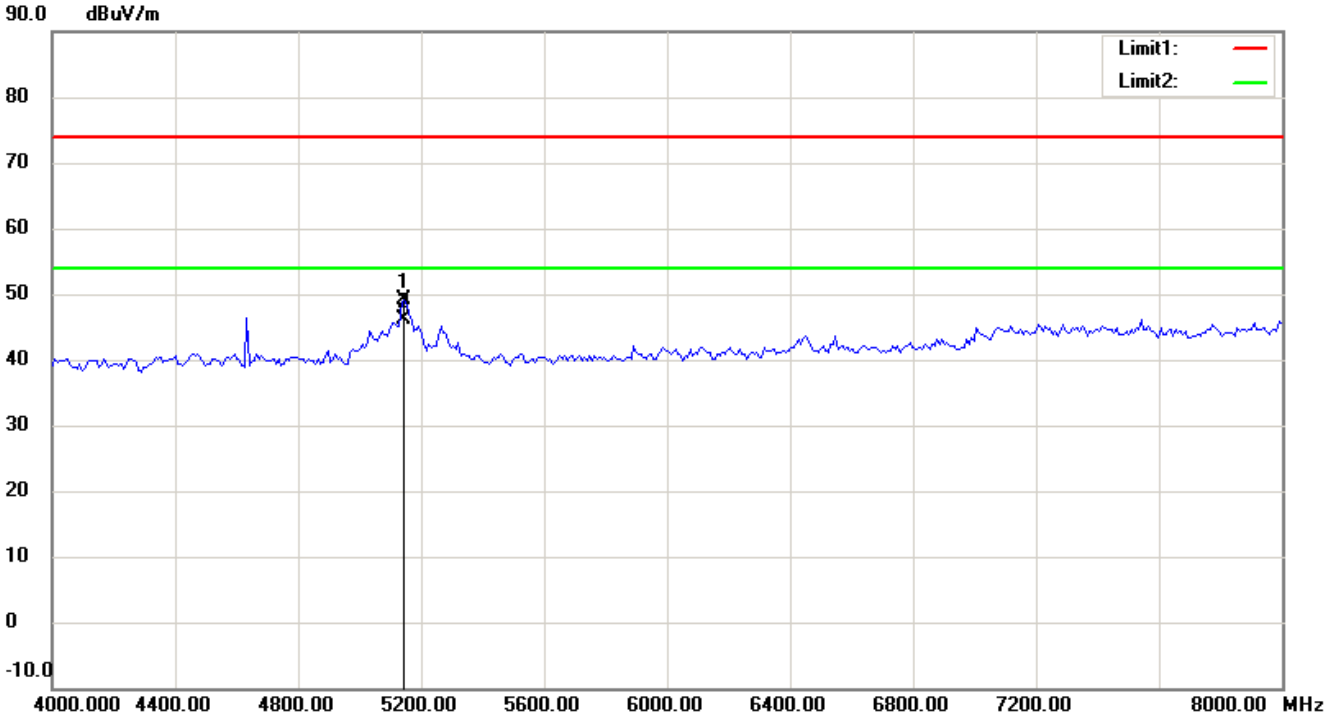
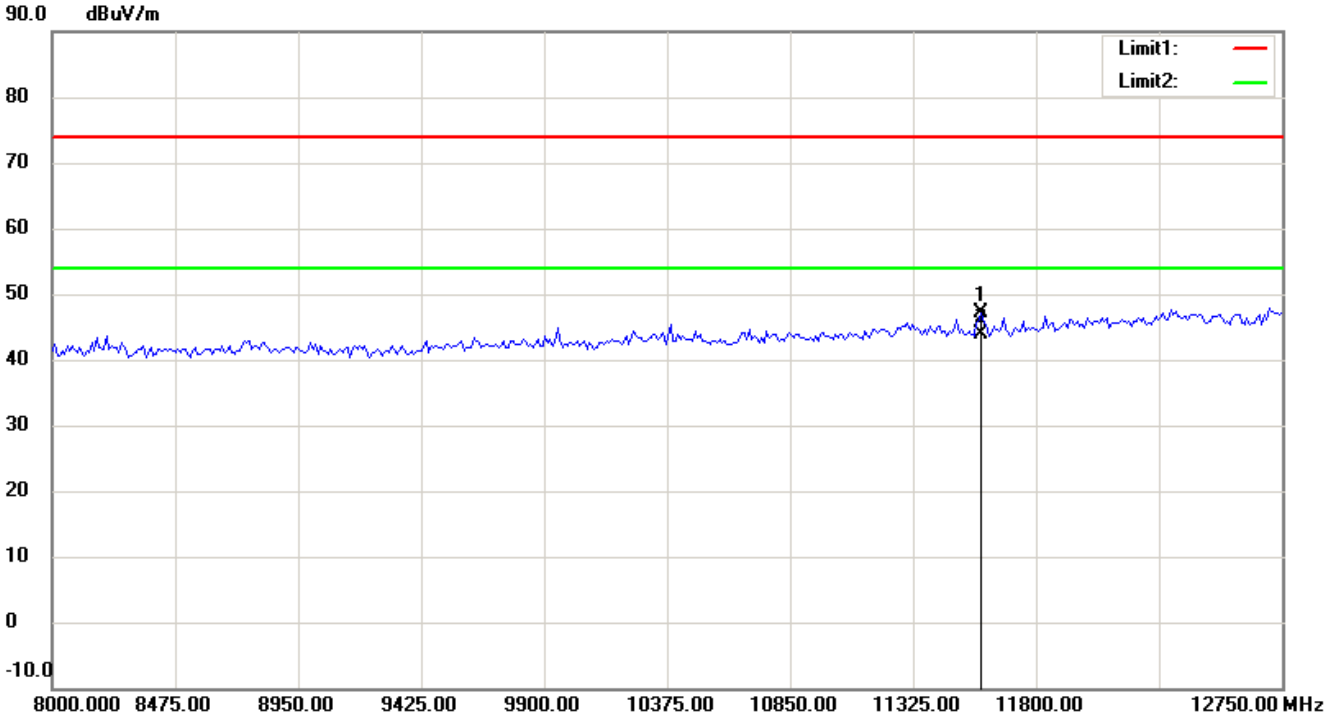
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N





Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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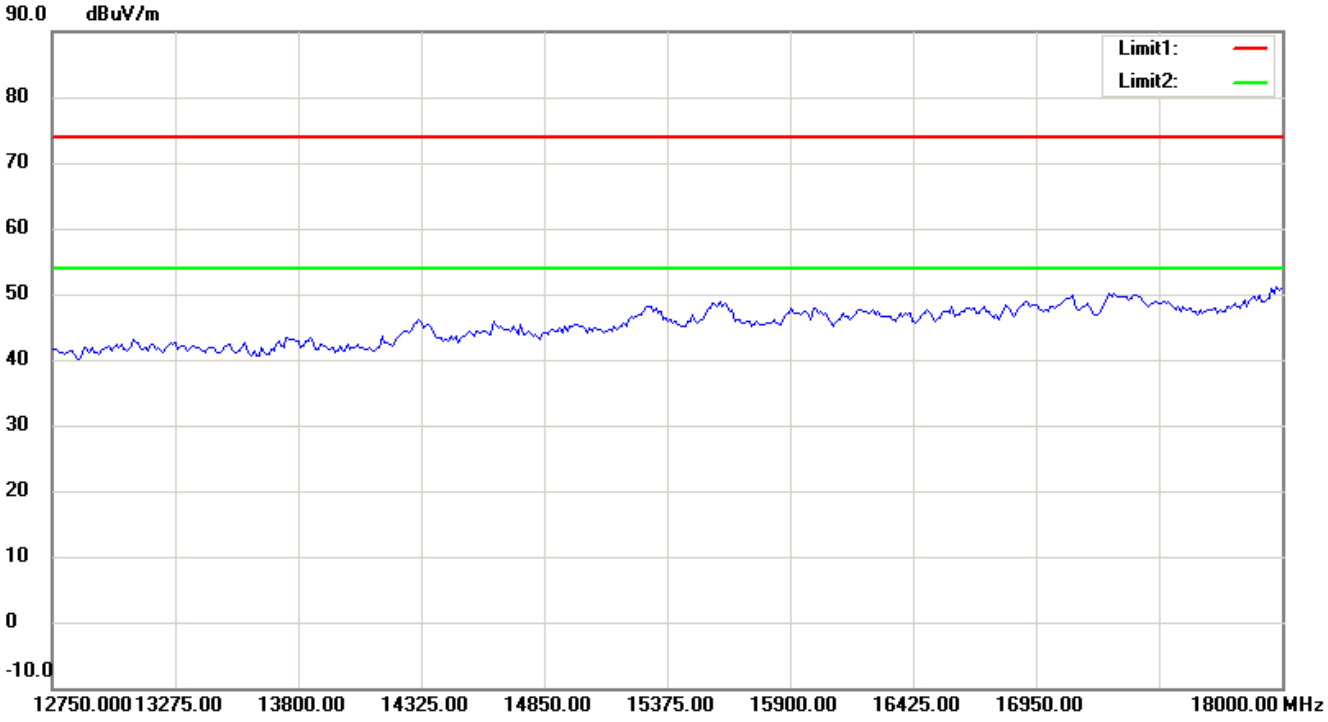
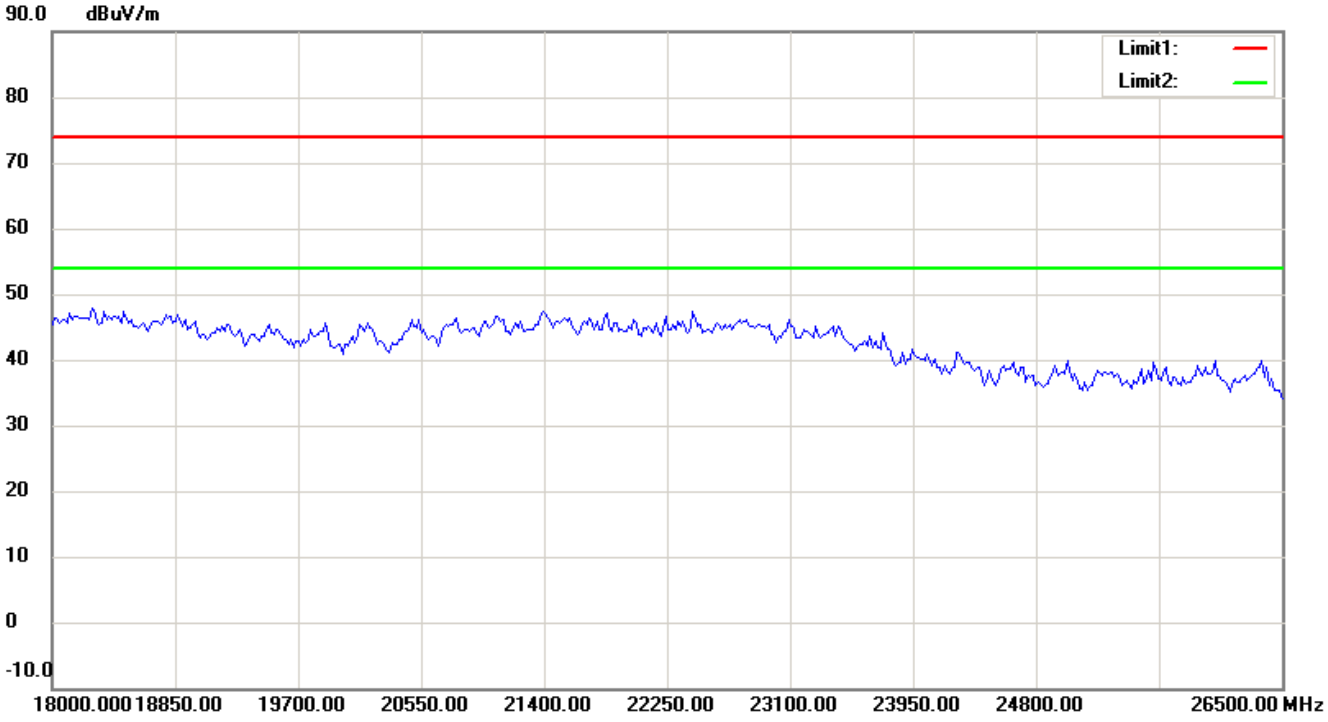
Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N





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Note:

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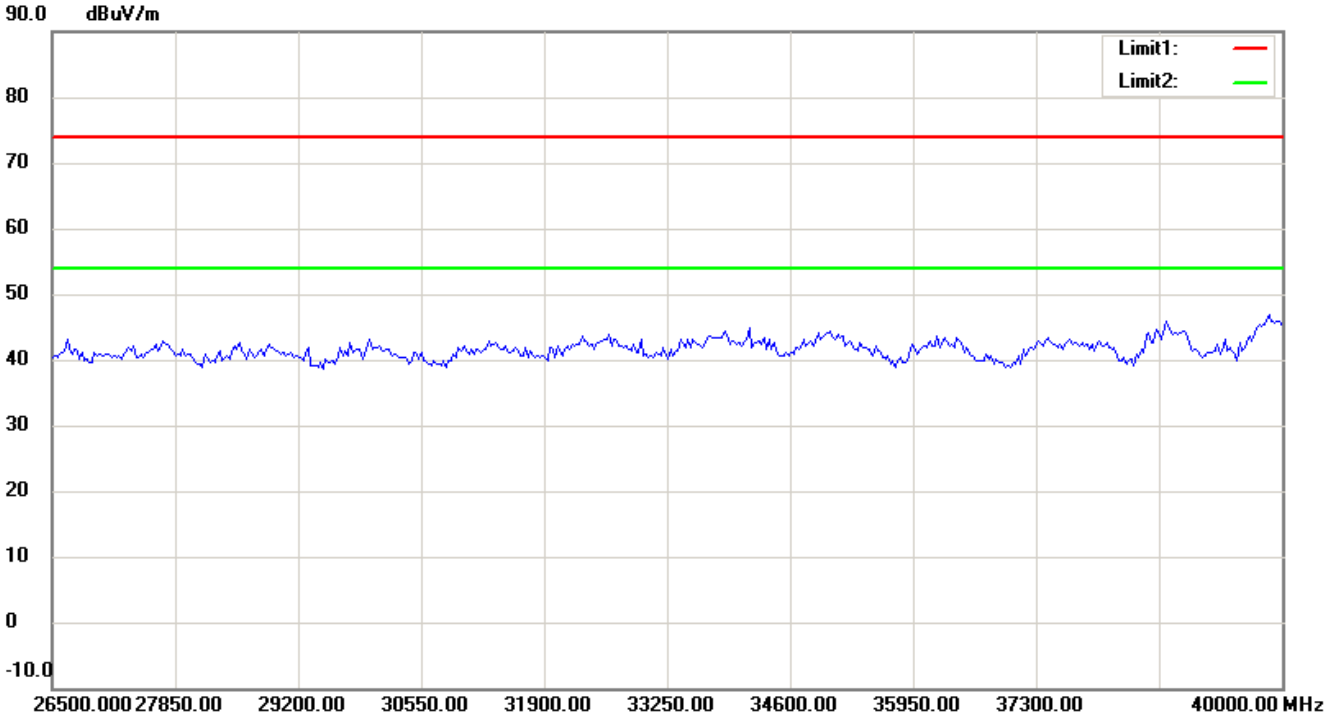
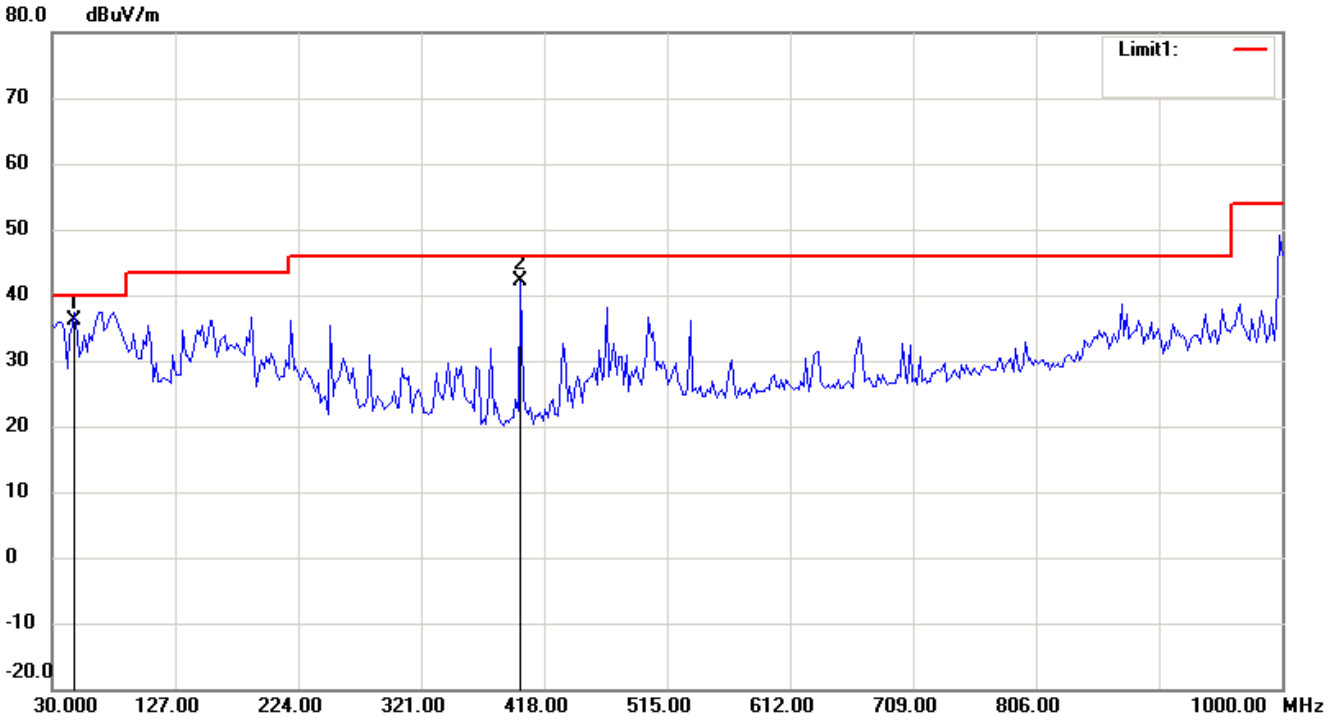
Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N



Antenna Polarization V



Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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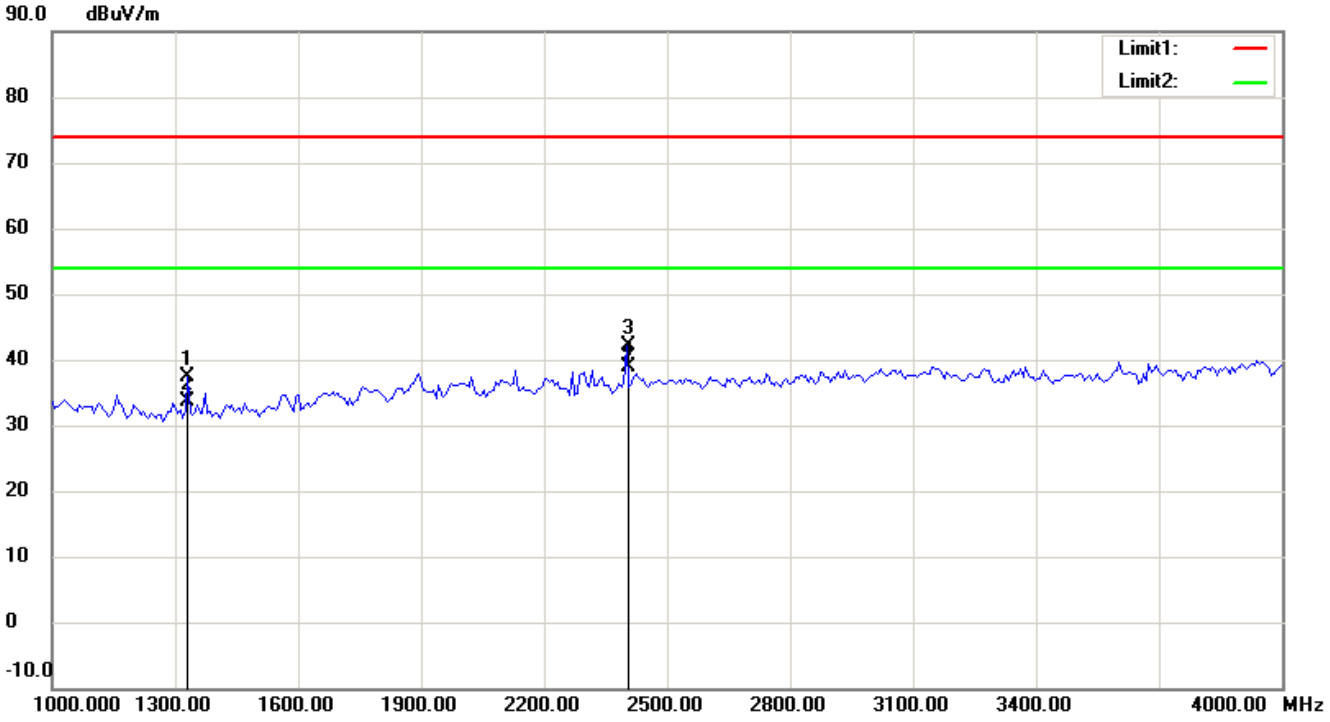
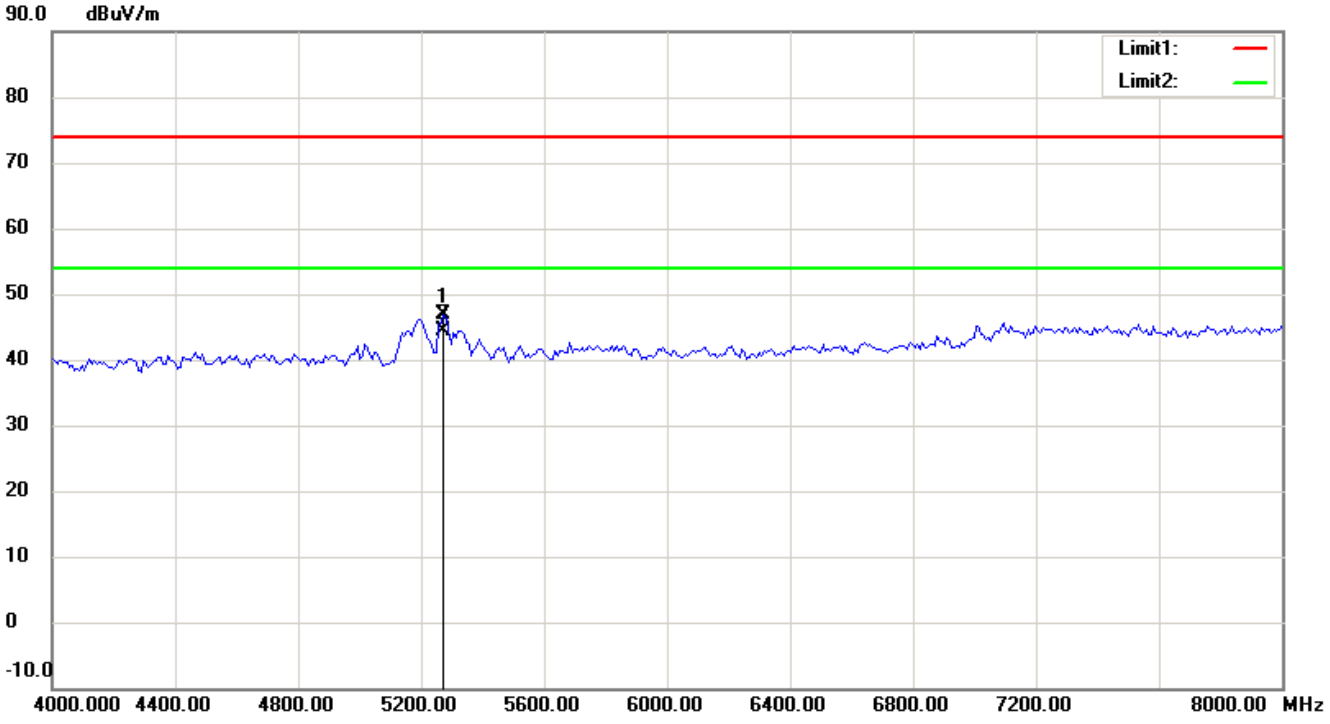
Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N





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Note:

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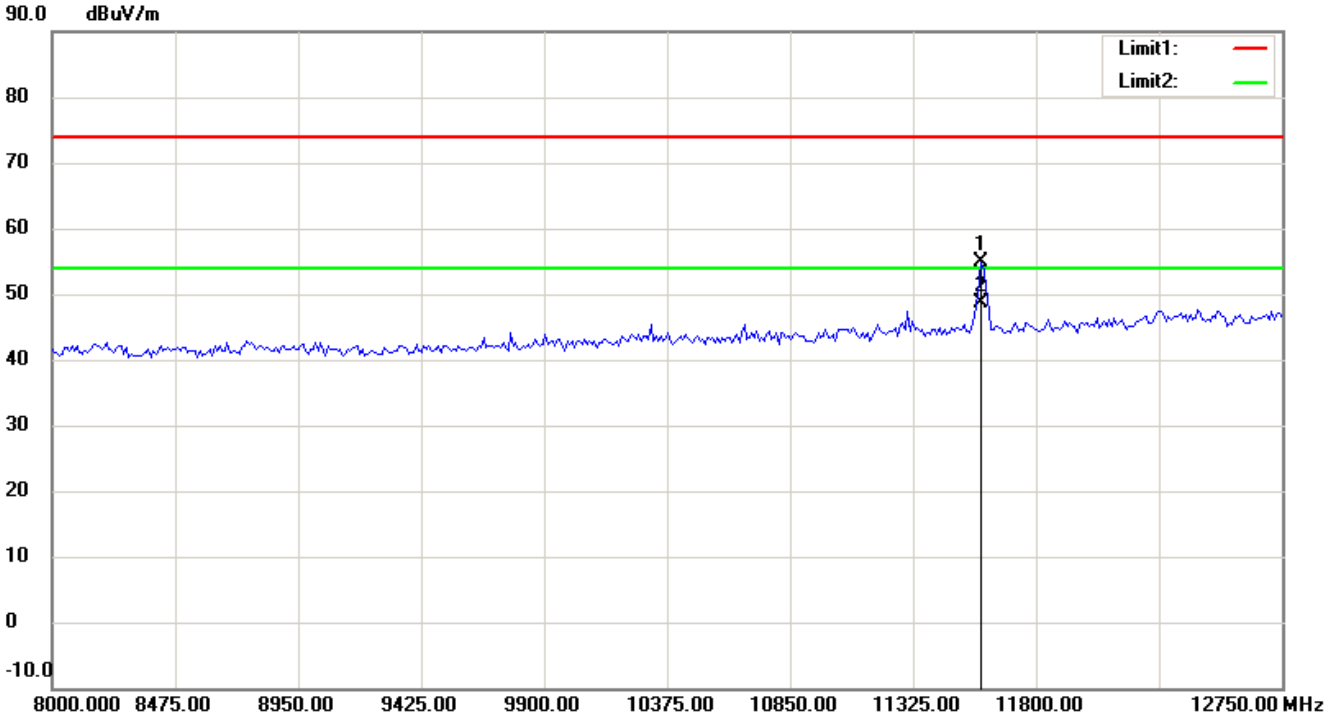
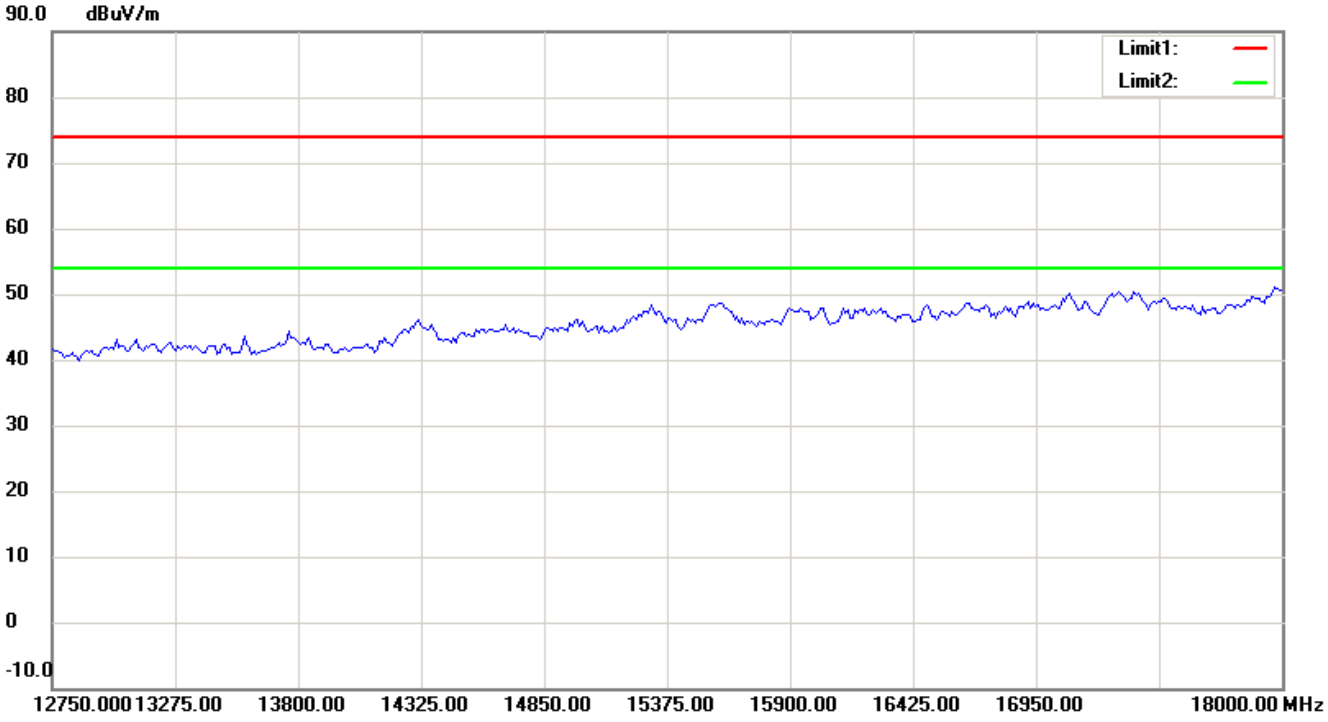
Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N





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Registration number: W6D21210-12823-C-1
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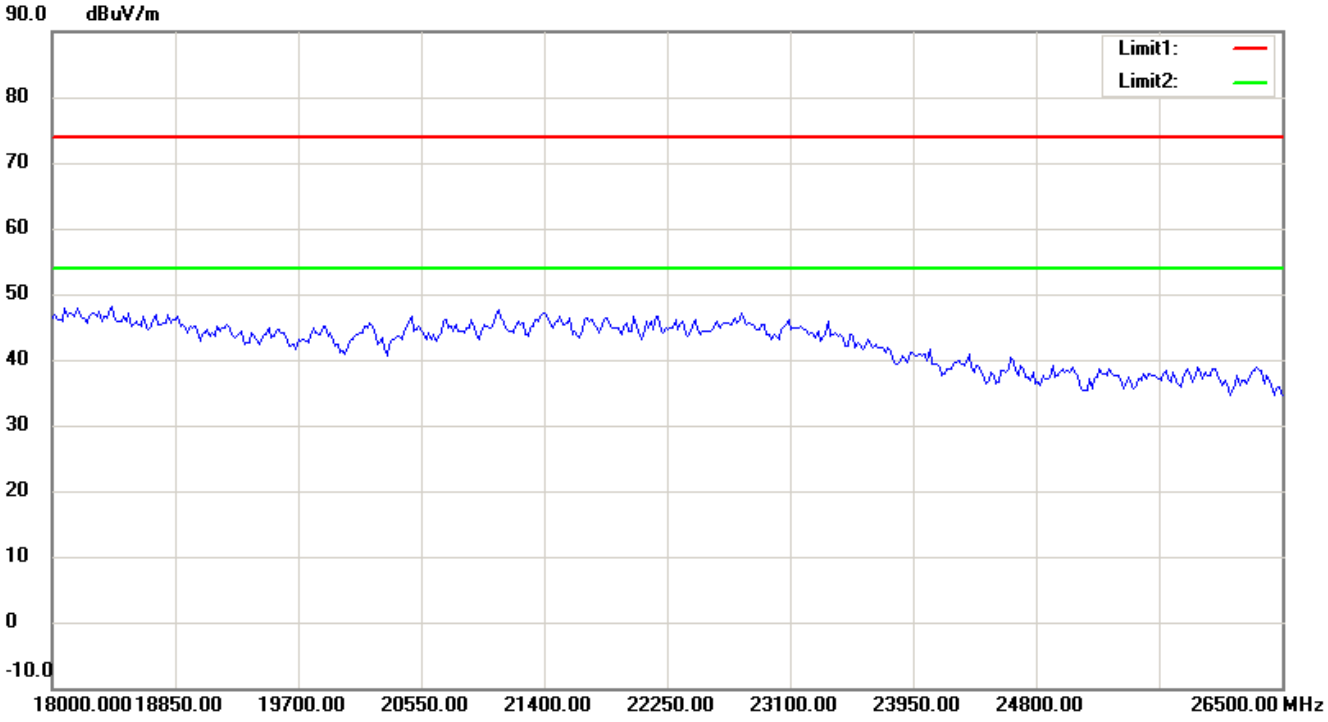

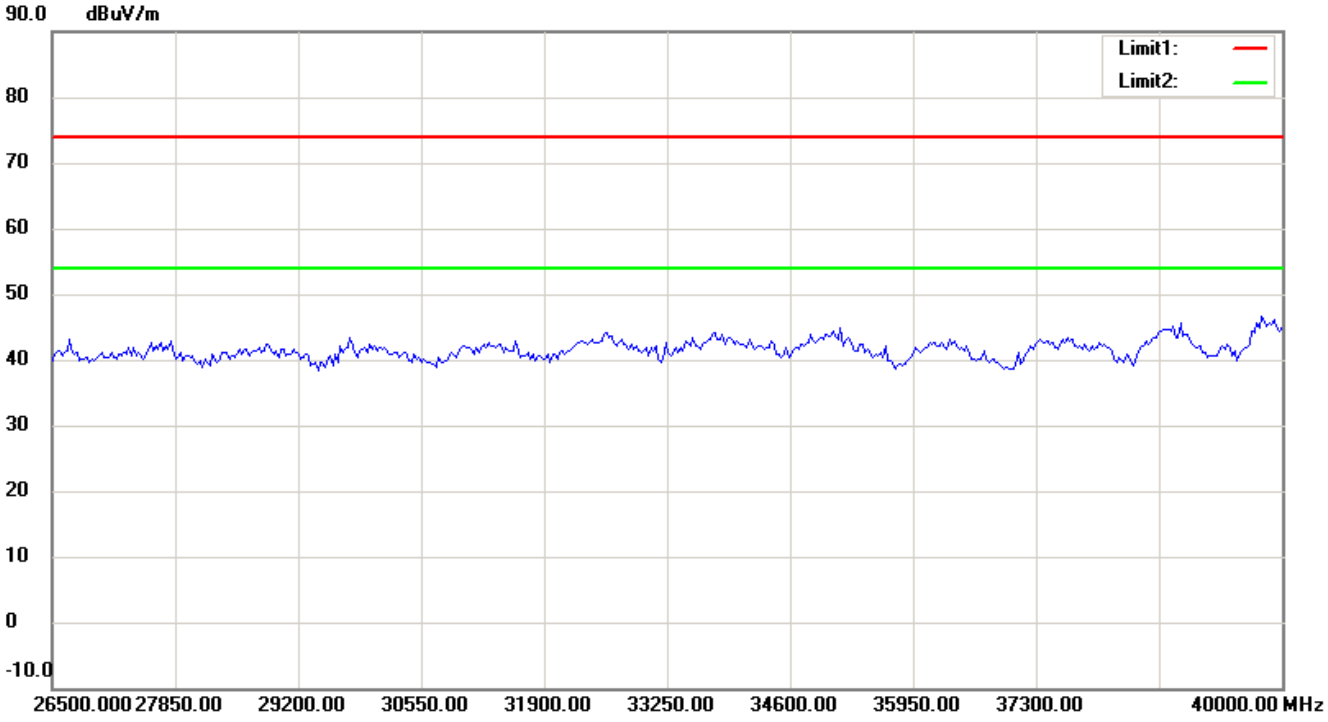

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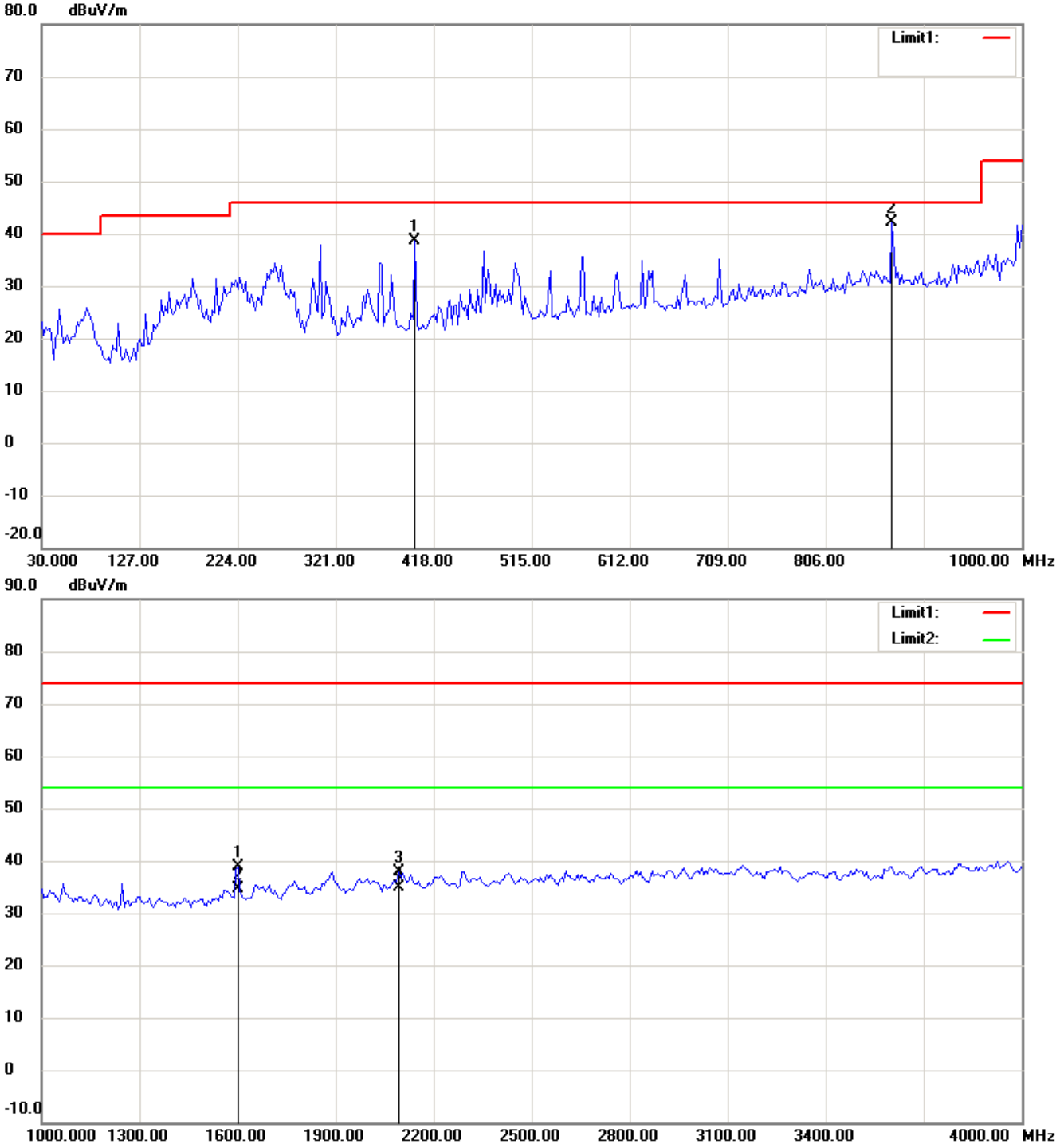
Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N

801.11n 40M CH161
Antenna Polarization H



Up Line: Peak Limit Line Down Line: Ave Limit Line
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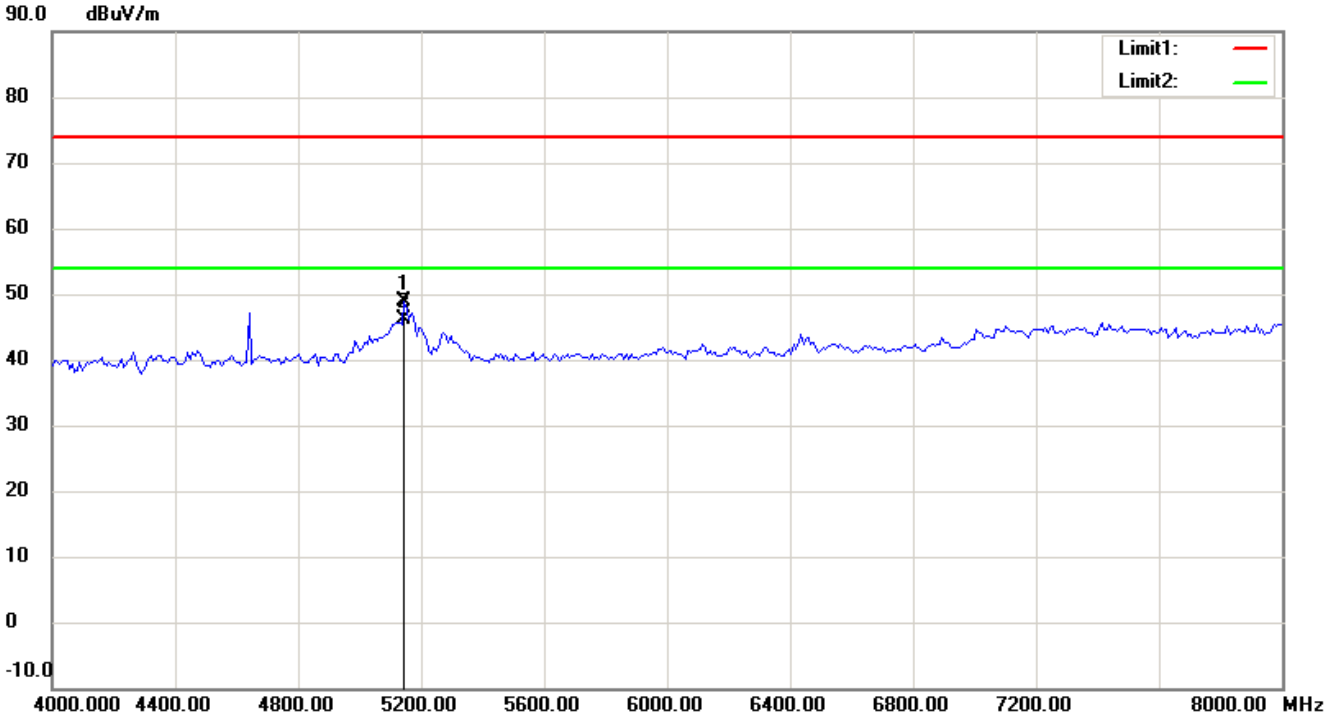
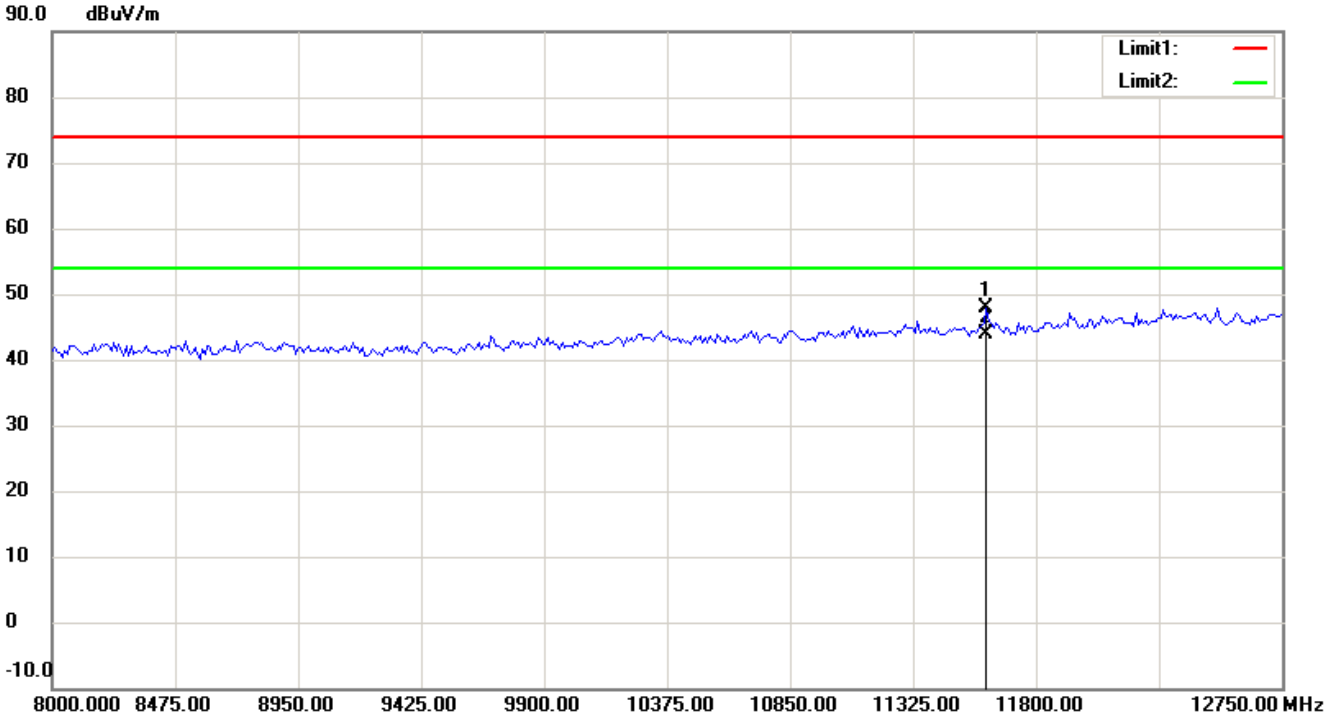
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Registration number: W6D21210-12823-C-1
FCC ID: ODMAM5N





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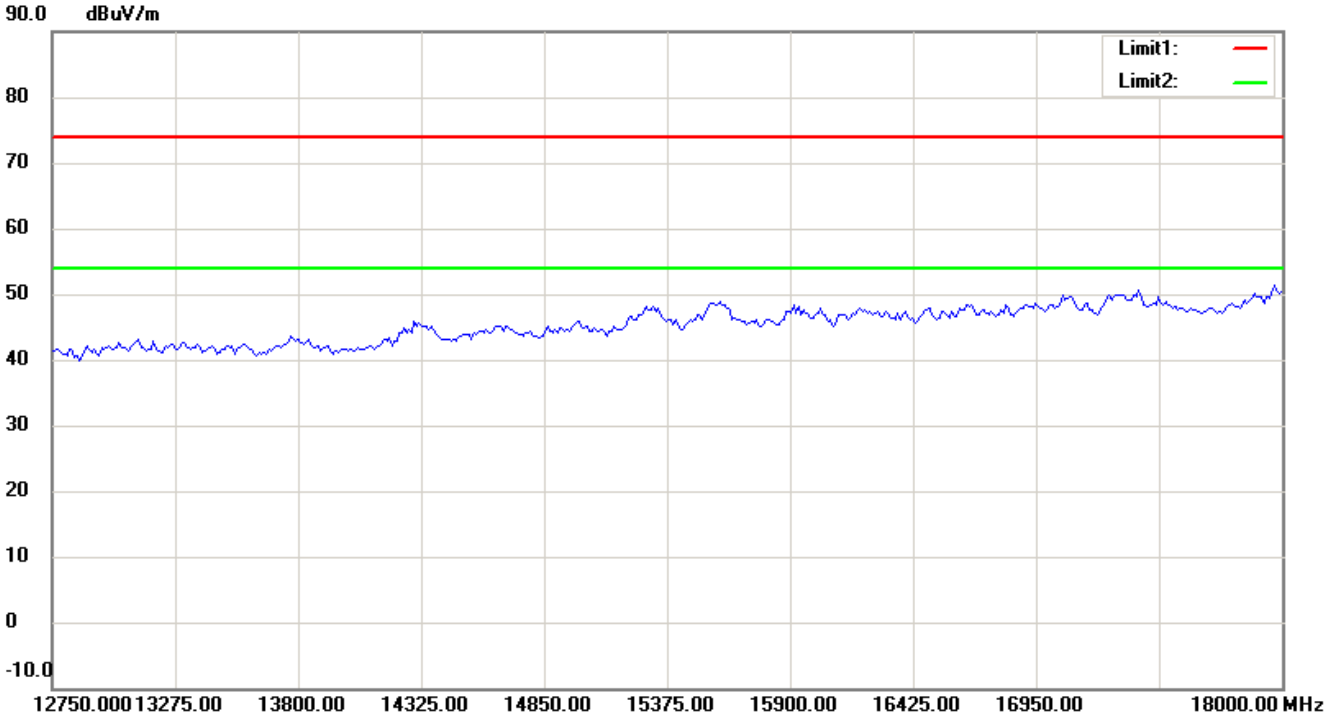

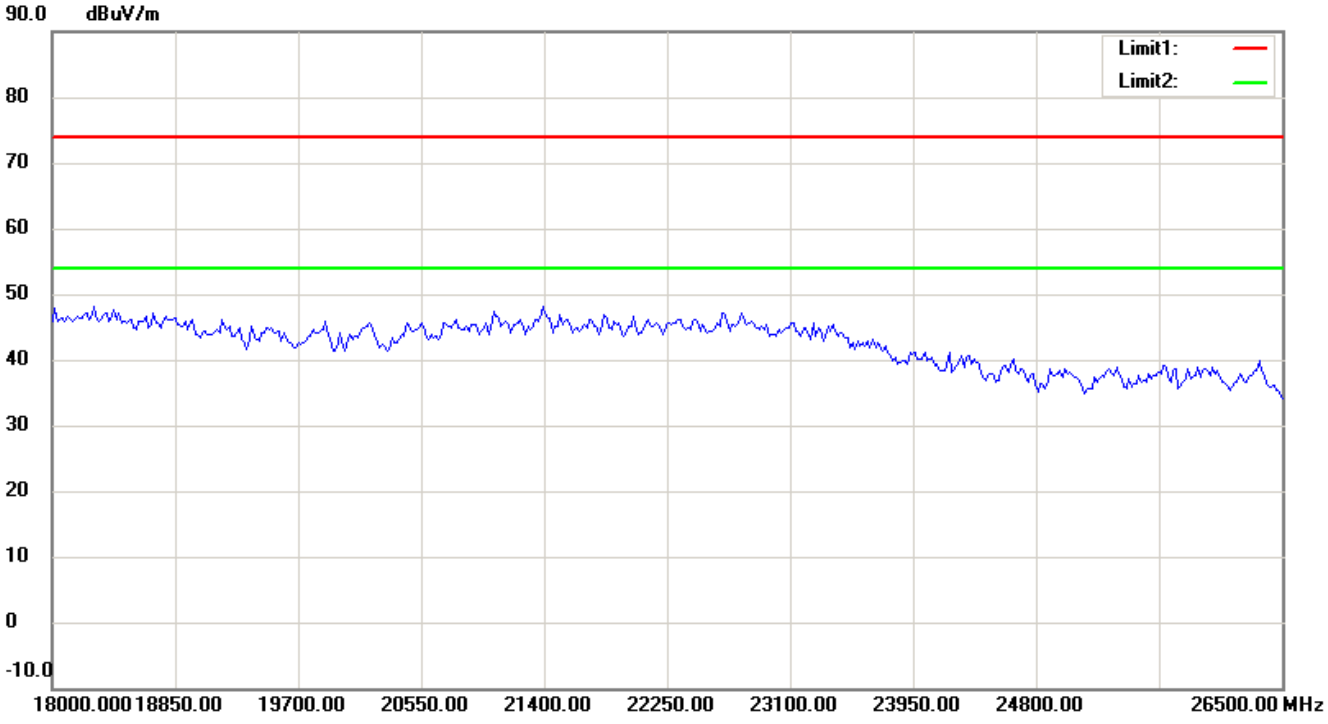

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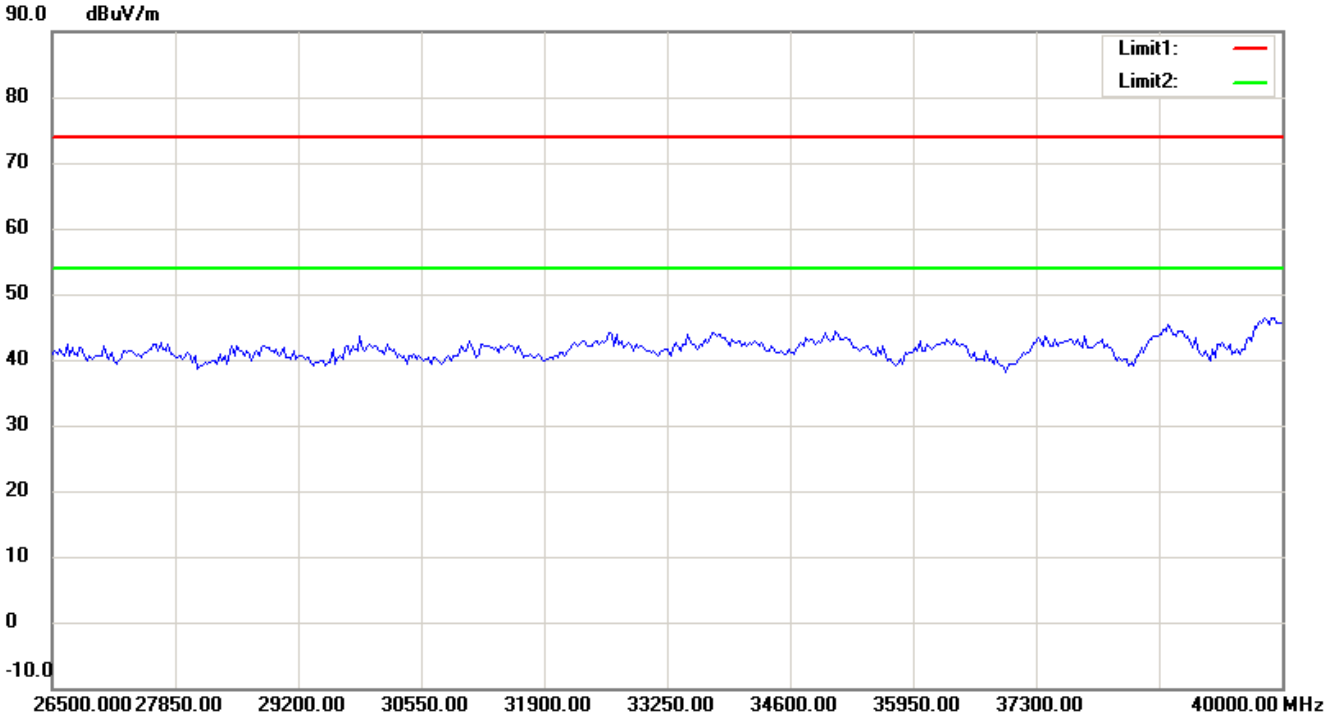
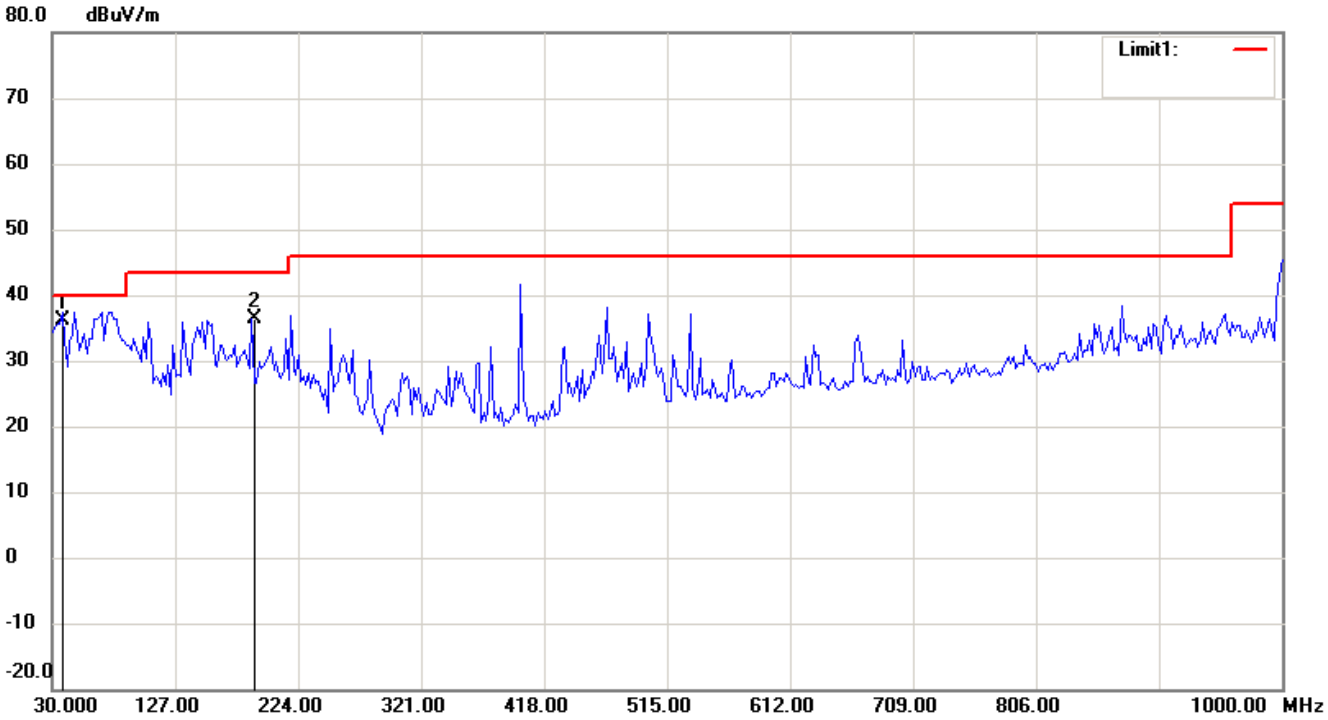


Antenna Polarization V



Up Line: Peak Limit Line Down Line: Ave Limit Line
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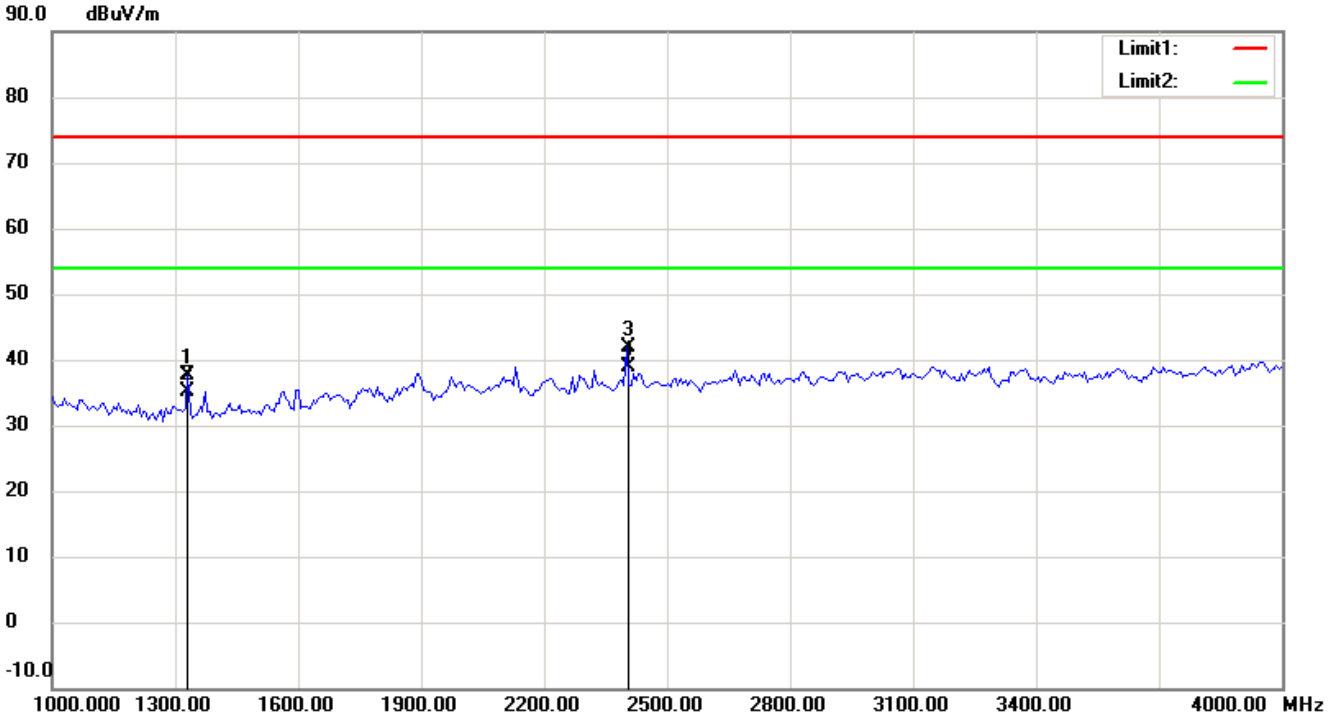

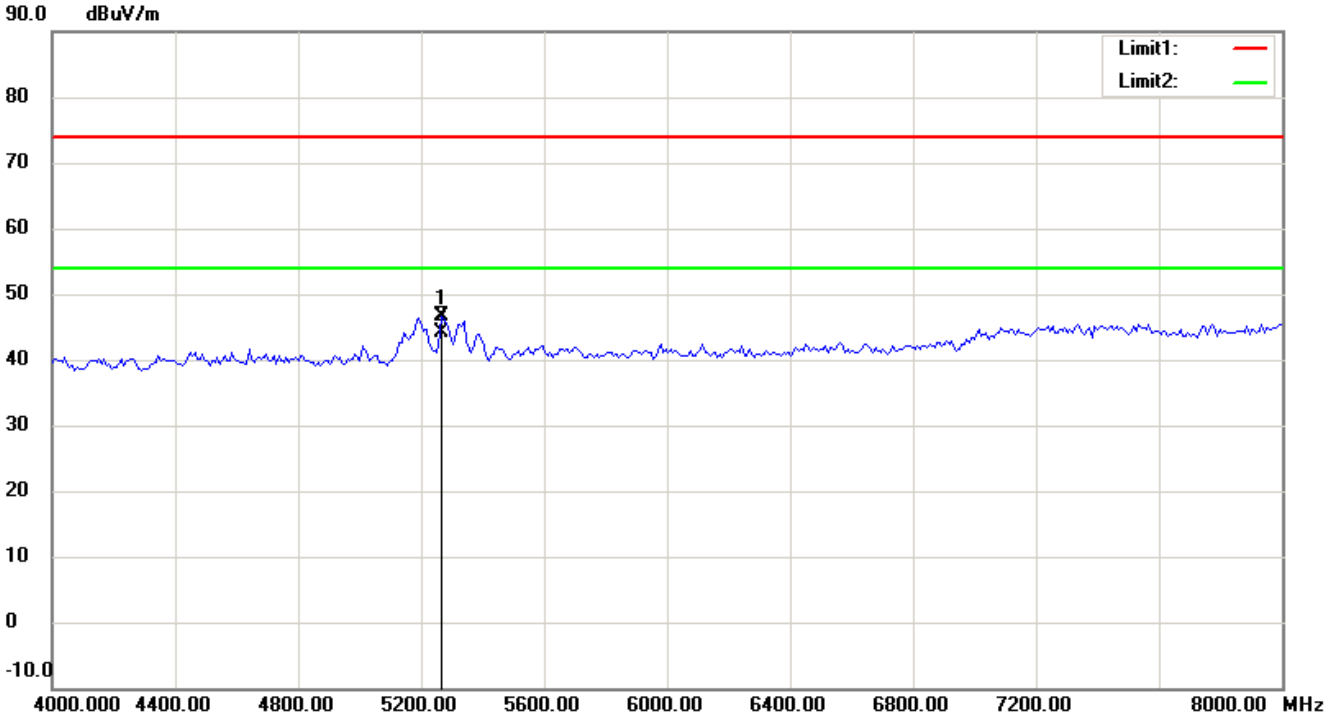

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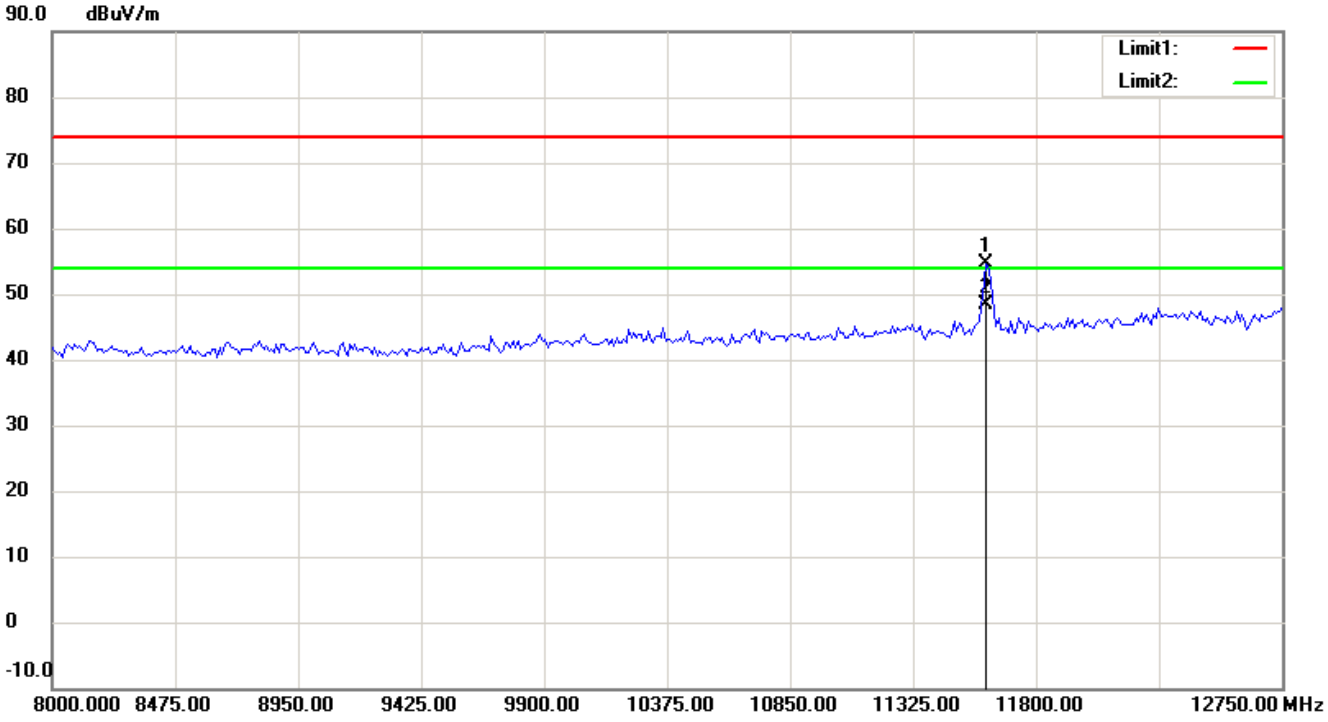

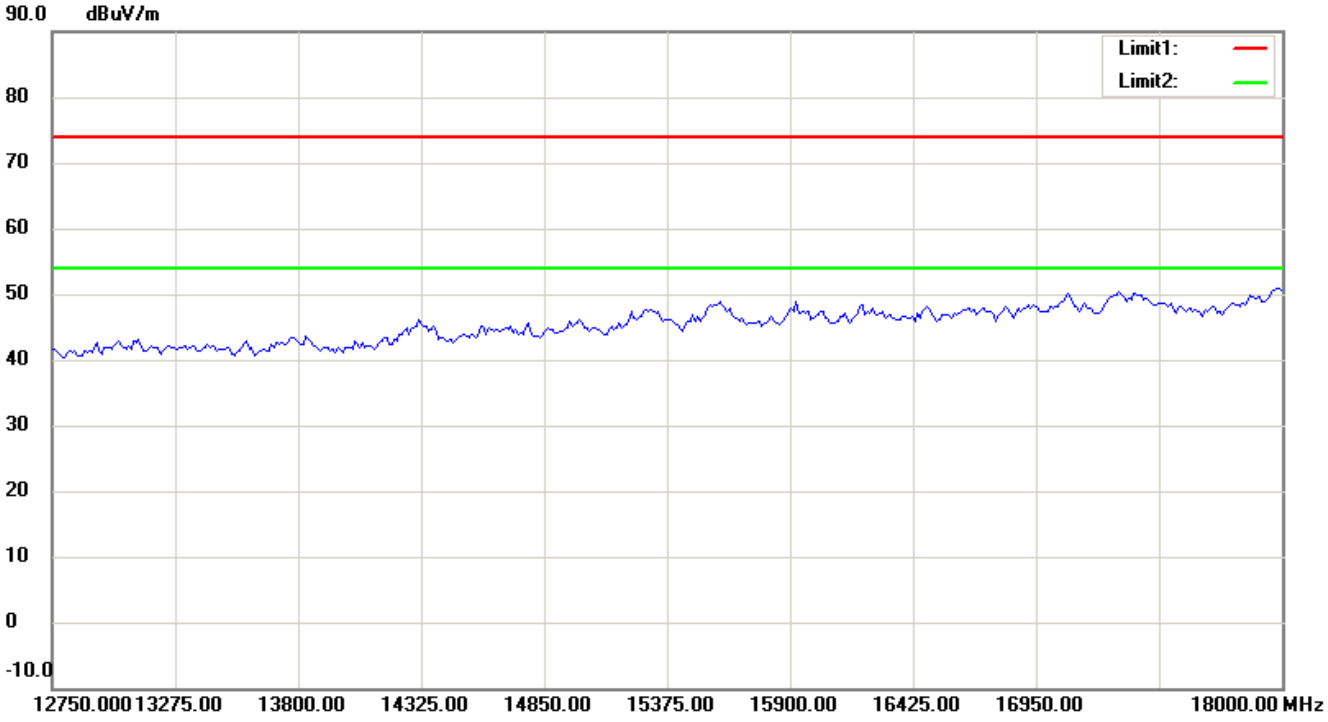

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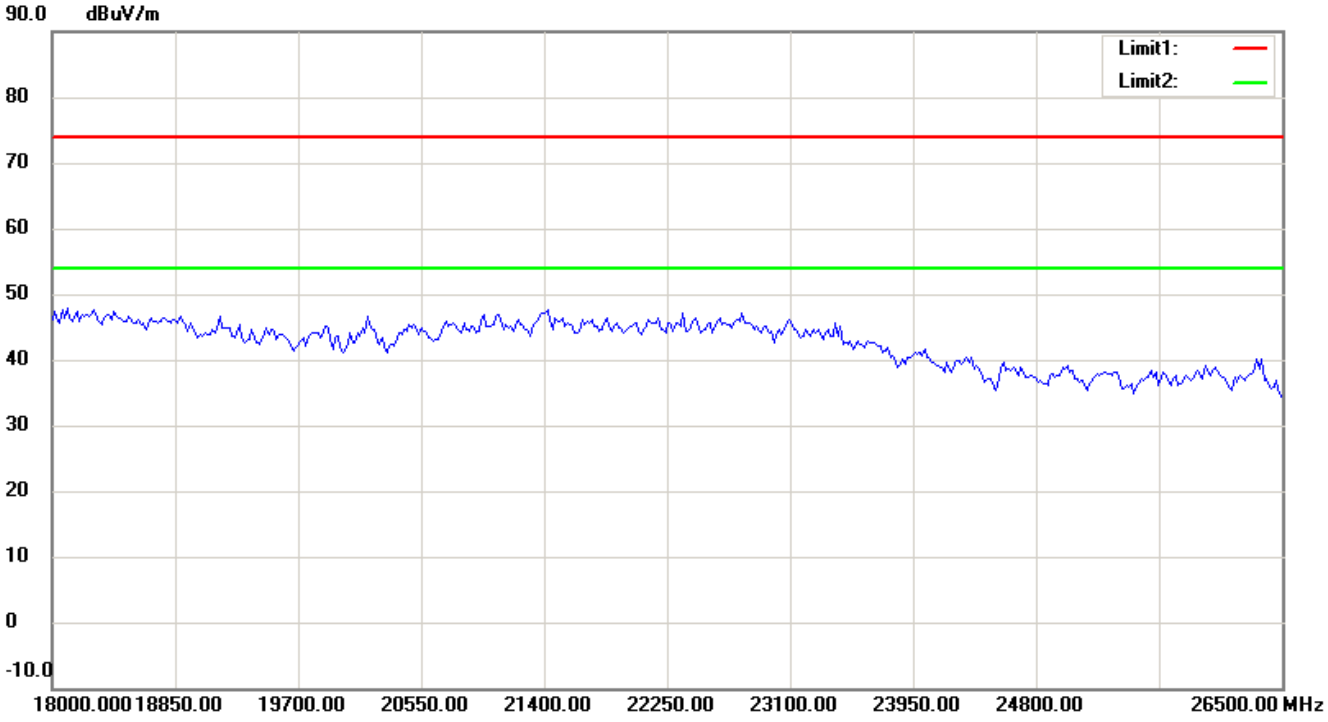

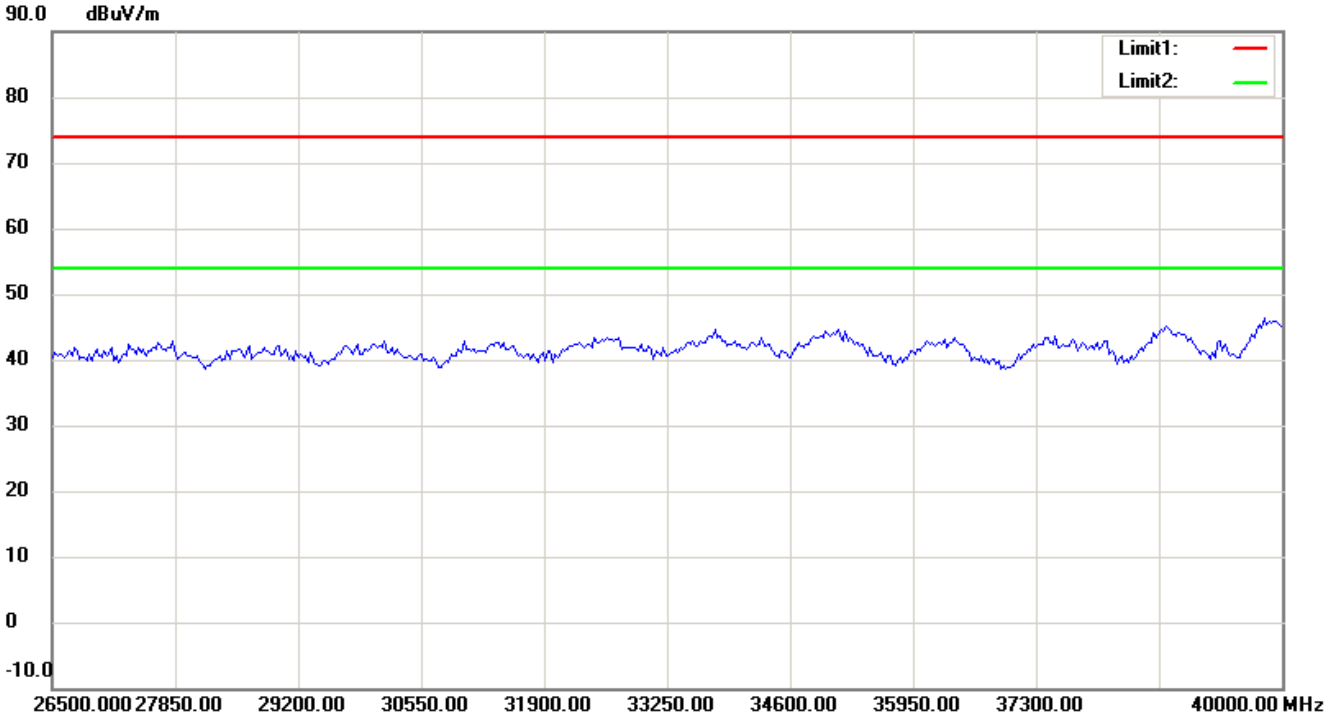

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