FCC PART 15 SUBPART C TEST REPORT

for

11" Notebook

Model No.: T1125XX,R1100XX,R1101XX

(X=0~9,A~Z or Blank)

FCC ID: JCK-T1125

of

Applicant: **GIGA-BYTE TECHNOLOGY CO., LTD.**
Address: **No.6, Bau Chiang Road, Hsin-Tien, Taipei-Hsien, Taiwan, R.O.C.**

Tested and Prepared

by

Worldwide Testing Services (Taiwan) Co., Ltd.

FCC Registration No.: 930600

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

A2LA Accredited No.: 2732.01

Report No.: W6M21008-10827-C-1

6F, NO. 58, LANE 188, RUEY-KUANG RD., NEIHU TAIPEI 114, TAIWAN, R.O.C.
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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.

Tester:

Kevin Wang

September 14, 2010 Kevin Wang

Date WTS-Lab. Name Signature

Technical responsibility for area of testing:

September 14, 2010 Chang Tse-Ming Chang Tse-Ming

Date WTS Name Signature

Registration number: W6M21008-10827-C-1
FCC ID: JCK-T1125

1.2 Testing laboratory

1.2.1 Location

OATS
No.5-1, Shuang Sing Village,
LiShuei Rd., Wanli Township,
Taipei County 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:	GIGA-BYTE TECHNOLOGY CO., LTD.
Street:	No.6, Bau Chiang Road, Hsin-Tien,
Town:	Taipei-Hsien,
Country:	Taiwan, R.O.C.
Telephone:	+886-2-89132224
Fax:	+886-2-89131932

1.4 Application details

Date of receipt of test item: August 13, 2010

Date of test: from August 16, 2010 to September 13, 2010

1.5 General information of Test item

The T1125XX,R1100XX,R1101XX(X=0~9,A~Z or Blank) incorporates WLAN and Bluetooth communication capability. The EUT contains Bluetooth module (model no: AW-BT270) and WLAN module (model no: AW-NE139H).

Type of test item: 11" Notebook

Model Number: T1125XX,R1100XX,R1101XX(X=0~9,A~Z or Blank)

Brand Name: GIGABYTE

Multi-listing model number: ./.

Photos: see Appendix

Technical data

Frequency band: 2.4 GHz – 2.4835 GHz

WLAN 11b, 11g, 11n 20MHz

Frequency (ch 1 or A): 2.412 GHz

Frequency (ch 6 or B): 2.437 GHz

Frequency (ch 11 or C): 2.462 GHz

WLAN 11n 40 MHz

Frequency (ch 1 or A): 2.422 GHz

Frequency (ch 4 or B): 2.437 GHz

Frequency (ch 7 or C): 2.452 GHz

Bluetooth

Frequency (ch 0 or A): 2.402 GHz

Frequency (ch 39 or B): 2.441 GHz

Frequency (ch 78 or C): 2.480 GHz

Number of Channels: WLAN 11b, 11g, 11n 20MHz: 11
WLAN 11n 40 MHz: 7
Bluetooth: 79

Operation modes: duplex

Modulation Type:	WLAN: DSSS / OFDM Bluetooth: GFSK、π/4DQPSK、8DPSK
Fixed point-to-point operation:	☐ Yes / ☒ No
Type of Antenna:	WLAN: PIFA antenna Bluetooth: Printed Antenna
Antenna gain:	WLAN: 3.50 dBi Bluetooth: 1.87 dBi
Power supply:	Adaptor model no.1: ADP-65JH BB Adaptor model no.2: FSP065-RAB (I/P: AC 100-240 V / 50-60 Hz / 1.5 A, O/P: 19 Vdc / 3.42 A) Battery model no.1: GNF-660 series (7.4 V / 7800 mAh / 57.72 Wh) Battery model no.2: GNF-240 series (7.2 V / 4400 mAh / 31.68 Wh)
Emission designator:	11b: DSSS: 16M3G1D 11g: OFDM: 16M8W7D 11n 20 MHz: OFDM: 18M4W7D 11n 40 MHz: OFDM: 36M2W7D Bluetooth (Normal mode): 955KF7D Bluetooth (EDR mode): 1M29F1D
Additional information:	There are six testing modes in the test report. Mode A: IEEE 802.11b Mode B: IEEE 802.11g Mode C: IEEE 802.11n 20 MHz Mode D: IEEE 802.11n 40 MHz Mode E: Bluetooth (Normal mode) Mode F: Bluetooth (EDR mode)
Host device:	none

Classification :

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

Transmitter	**Unom**
Mode A (DSSS)	
Power (ch 1 or A):	Conducted: 19.71 dBm
Power (ch 6 or B):	Conducted: 19.88 dBm
Power (ch 11 or C):	Conducted: 19.67 dBm
Mode B (OFDM)	
Power (ch 1 or A):	Conducted: 18.36 dBm
Power (ch 6 or B):	Conducted: 18.61 dBm
Power (ch 11 or C):	Conducted: 18.37 dBm
Mode C (OFDM)	
Power (ch 1 or A):	Conducted: 17.08 dBm
Power (ch 6 or B):	Conducted: 17.32 dBm
Power (ch 11 or C):	Conducted: 17.51 dBm
Mode D (OFDM)	
Power (ch 1 or A):	Conducted: 16.53 dBm
Power (ch 4 or B):	Conducted: 17.57 dBm
Power (ch 7 or C):	Conducted: 17.01 dBm
Mode E (Bluetooth-Normal mode)	
Power (ch 0 or A):	Conducted: -0.75 dBm
Power (ch 39or B):	Conducted: -1.47 dBm
Power (ch 78 or C):	Conducted: -0.62 dBm
Mode F (Bluetooth-EDR mode)	
Power (ch 0 or A):	Conducted: 1.60 dBm
Power (ch 39or B):	Conducted: 0.96 dBm
Power (ch 78 or C):	Conducted: 1.98 dBm

Manufacturer: (if applicable)

Name:	GIGA-BYTE TECHNOLOGY CO., LTD.
Street:	No.6, Bau Chiang Road, Hsin-Tien,
City:	Taipei-Hsien,
Country:	Taiwan, R.O.C.

1.6 Test standards

Technical standard : FCC RULES PART 15 SUBPART C § 15.247 (2009-10)

Note:
1. This test report is valid in connection to the model has been tested; any modification to the product which is different from the test model will avoid the certification of the test report.
2. This test report shall always be duplicated in full pages unless the written approval of the testing laboratory is obtained.
3. The X in model number indicates market segmentation.

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:	Adaptor model no.1: ADP-65JH BB Adaptor model no.2: FSP065-RAB (I/P: AC 100-240 V / 50-60 Hz / 1.5 A, O/P: 19 Vdc / 3.42 A) Battery model no.1: GNF-660 series (7.4 V / 7800 mAh / 57.72 Wh) Battery model no.2: GNF-240 series (7.2 V / 4400 mAh / 31.68 Wh)
Extreme conditions parameters:	./.

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	2010/9/2	2011/9/1
ETSTW-CE 004	ZWEILEITER-V-NETZNACHBILDUNG TWO-LINE V-NETWORK	ESH3-Z5	840731/011	R&S	2010/3/2	2011/3/1
ETSTW-CE 005	Line-Impedance Stabilisation Network	NNBM 8126D	137	Schwarzbeck	2010/9/8	2011/9/7
ETSTW-CE 006	IMPULSBEGRENZER PULSE LIMITER	ESH3-Z2	100226	R&S	2010/5/8	2011/5/7
ETSTW-CE 007	SPECTRUM ANALYZER 5GHz	FSB	849670/001	R&S	Pre-test Use NCR	
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	2010/7/21	2011/7/19
ETSTW-CE 015	CISPR 22 TWO BALANCED TELECOM PAIRS IMPEDANCE STABILIZATION NETWORK	FCC-TLISN-T8-02	20307	FCC	2010/9/6	2011/9/5
ETSTW-RE 002	Function Generator	33220A	MY43004982	Agilent	Function Test	
ETSTW-RE 003	EMI TEST RECEIVER	ESI 26	831438/001	R&S	2010/8/10	2011/8/9
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2010/9/8	2011/9/7
ETSTW-RE 005	EMI TEST RECEIVER	ESVS10	843207/020	R&S	2010/9/2	2011/9/1
ETSTW-RE 006	Attenuator 10dB	50HF-010-5N-1	None	STEP	2010/3/5	2011/3/4
ETSTW-RE 010	ABSORBING CLAMP	MDS 21	3469	Schwarzbeck	2010/9/6	2011/9/5
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	2010/9/8	2011/9/7
ETSTW-RE 020	MICROWAVE HORN ANTENNA	AT4002A	306915	AR	Function Test	
ETSTW-RE 021	SWEEP GENERATOR	SWM05	835130/010	R&S	2010/8/20	2011/8/19
ETSTW-RE 027	Passive Loop Antenna	6512	00034563	EMCO	2010/7/22	2011/7/21
ETSTW-RE 028	Log-Periodic Dipole Array Antenna	3148	34429	EMCO	2010/4/14	2011/4/13
ETSTW-RE 029	Biconical Antenna	3109	33524	EMCO	2010/4/14	2011/4/13
ETSTW-RE 030	Double-Ridged Guide Horn Antenna	3117	00035224	EMCO	2010/3/2	2011/3/1
ETSTW-RE 032	Millivoltmeter	URV 55	849086/013	R&S	2010/8/17	2011/8/16
ETSTW-RE 033	WaveRunner 6000A Serise Oscilloscope	WAVERUNNER 6100A	LCRY0604P14508	LeCroy	Function Test	
ETSTW-RE 034	Power Sensor	URV5-Z4	839313/006	R&S	2010/8/17	2011/8/16
ETSTW-RE 042	Biconical Antenna	HK116	100172	R&S	2010/1/13	2011/1/12
ETSTW-RE 043	Log-Periodic Dipole Antenna	HL223	100166	R&S	2010/4/29	2011/4/28
ETSTW-RE 044	Log-Periodic Antenna	HL050	100094	R&S	2010/5/11	2011/5/10
ETSTW-RE 047	PSA SERIES SPECTRUM ANALYZER	E4445A	MY46181369	Agilent	Pre-test Use NCR	
ETSTW-RE 048	Triple Loop Antenna	HXYZ 9170	HXYZ 9170-134	Schwarzbeck	2010/8/30	2011/8/29
ETSTW-RE 049	TRILOG Super Broadband test Antenna	VULB 9160	9160-3185	Schwarzbeck	2010/4/13	2011/4/12
ETSTW-RE 051	Attenuator 6dB	50HF-006-1	None	JFW	2010/3/5	2011/3/4

ETSTW-RE 053	Attenuator 3dB	50HF-003-1	None	JFW	2010/3/5	2011/3/4
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2010/6/3	2011/6/2
ETSTW-RE 060	Attenuator 30dB	5015-30	F651012z-01	ATM	Pre-test Use NCR	
ETSTW-RE 061	Amplifier Module	CHC 1	None	ETS	2009/11/12	2010/11/11
ETSTW-RE 062	Amplifier Module	CHC 2	None	KMIC	2009/11/12	2010/11/11
ETSTW-RE 064	Bluetooth Test Set	MT8852B-042	6K00005709	Anritsu	Function Test	
ETSTW-RE 065	Amplifier	AMF-6F-18002650-25-10P	941608	MITEQ	2010/4/13	2011/4/12
ETSTW-RE 066	Highpass Filter	H1G013G1	206015	MICROWAVE CIRCUITS, INC.	2010/3/5	2011/3/4
ETSTW-RE 072	CELL SITE TEST SET	8921A	3339A00375	HP	2009/10/2	2010/10/1
ETSTW-RE 073	Power Meter	N1911A	MY45100769	Agilent	2010/1/7	2011/1/6
ETSTW-RE 074	Power Sensor	N1921A	MY45241198	Agilent	2010/1/7	2011/1/6
ETSTW-RE 081	Highpass Filter	H03G13G1	4260-02 DC0428	MICROWAVE CIRCUITS, INC.	2010/3/5	2011/3/4
ETSTW-RE 096	SIGNAL GENERATOR	SMIQ 03B	102274	R&S	2010/5/31	2011/5/30
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2010/3/5	2011/3/4
ETSTW-RE 105	2.4GHz Notch Filter	NO124411	39555	MICROWAVE CIRCUITS, INC.	2010/3/25	2011/3/24
ETSTW-RE 106	Humidity Temperature Meter	TES-1366	091011113	TES	2010/3/25	2011/3/24
ETSTW-GSM 002	Universal Radio Communication Tester	CMU 200	109439	R&S	2010/9/8	2011/9/7
ETSTW-GSM 019	Band Reject Filter	WRCTF824/849-822/851-40 /12+9SS	3	WI	Function Test	
ETSTW-GSM 020	Band Reject Filter	WRCD1747/1748-1743/1752-32/5SS	1	WI	Function Test	
ETSTW-GSM 021	Band Reject Filter	WRCD1879.5/1880 .5-1875.5/1884.5-32/5SS	3	WI	Function Test	
ETSTW-GSM 022	Band Reject Filter	WRCT901.9/903.1-904.25-50/8SS	1	WI	Function Test	
ETSTW-GSM 023	Power Divider	4901.19.A	None	SUHNER	2010/9/8	2011/9/7
ETSTW-Cable 002	Microwave Cable	SUCOFLEX 104 （S_Cable 7）	238093	HUBER+SUHNER	2010/9/8	2011/9/7
ETSTW-Cable 003	Microwave Cable	SUCOFLEX 104 （S_Cable 11）	209953	HUBER+SUHNER	2010/9/8	2011/9/7
ETSTW-Cable 006	Microwave Cable	SUCOFLEX 104 （S_Cable 8）	238095	HUBER+SUHNER	2010/3/5	2011/3/4
ETSTW-Cable 010	BNC Cable	5 M BNC Cable	None	JYE BAO CO.,LTD.	2010/3/5	2011/3/4
ETSTW-Cable 011	BNC Cable	BNC Cable 1	None	JYE BAO CO.,LTD.	2010/8/19	2011/8/18
ETSTW-Cable 012	BNC Cable	BNC Cable 2	None	JYE BAO CO.,LTD.	2010/8/19	2011/8/18
ETSTW-Cable 013	Microwave Cable	SUCOFLEX 104 （S_Cable 5）	232345	HUBER+SUHNER	2010/3/5	2011/3/4
ETSTW-Cable 022	N TYPE Cable	OATS Cable 3	0002	JYE BAO CO.,LTD.	2010/3/5	2011/3/4
ETSTW-Cable 039	Microwave Cable	SUCOFLEX 104 （S_Cable 19）	316739	HUBER+SUHNER	2010/3/5	2011/3/4
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	
WTSTW-SW 005	GSM Fading Level Correction	GSMFadLevCor	None	R&S	Version 1.66	

2.4 General Test Procedure

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

RADIATION INTERFERENCE: The test procedure used was according to ANSI STANDARD C63.4-2003 employing a spectrum analyzer. For investigated frequency is equal to or below 1GHz, the RBW and VBW of the spectrum analyzer was 100 kHz and 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 C63.4-2003 Section 13.1.2. The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to the frequency specified as follows:

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

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

3 Test results (enclosure)

TEST CASE	Para. Number	Required	Test passed	Test failed
Peak Output Power	15.247(b)	☒	☒	☐
Equivalent radiated Power	15.247(b)	☒	☒	☐
Spurious Emissions radiated – Transmitter operating	15.247	☒	☒	☐
Carrier Frequency Separation	15.247(a) (1)	☒	☒	☐
Number of Hopping Frequencies	15.247(a) (1)(i)	☒	☒	☐
Time of Occupancy (Dwell Time)	15.247(a) (1)(i)	☒	☒	☐
20 dB Bandwidth	15.247(a) (1)(i)	☒	☒	☐
Minimum 6 dB Bandwidth	15.247(a)(2)	☒	☒	☐
Band Edge Measurement	15.247(c)	☒	☒	☐
Peak Power Spectral Density	15.247(d)	☒	☒	☐
Radiated Emission from Digital Part	15.109	☐	☐	☐
Power Line Conducted Emission	15.207(a)	☒	☒	☐

Note:

1. This EUT is 2*2 spatial MIMO (2TX&2RX) without beam forming function. That operates dual chain configuration. The Pre-test was performed to determine the worst case mode from all possible combinations between all available modulations, data rates, bandwidths, and spatial stream modes.
2. The worst case mode was base on the investigations by measuring the peak and average power according to the description above. The detail of chosen mode for full testing are as below:

Mode	Available channel	Chosen Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
802.11b	1 to 11	1,6,11	DSSS	CCK, DQPSK, BPSK	Up to 11
802.11g	1 to 11	1,6,11	OFDM	BPSK, QPSK, 16QAM, 64QAM	Up to 54
802.11n (20MHz)	1 to 11	1,6,11	OFDM	BPSK, QPSK, 16QAM, 64QAM	Up to 300
802.11n (40MHz)	1 to 7	1,4,7	OFDM	BPSK, QPSK, 16QAM, 64QAM	Up to 300

3. Because both antennas operate simultaneously, when performed the relevant conducted measurement(ex. RF output power, peak power spectral density….and so on), we basically use a splitter to combine each antenna port in order to get the total measuring results.

3.1 Peak Output Power (transmitter)

FCC Rule: 15.247(b)(3)

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

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

Mode A

Test condition		Conducted Power		
		Channel A	Channel B	Channel C
T_{nom}= 23°C	V_{nom} = 7.4 V	[dBm]	[dBm]	[dBm]
		19.71	19.88	19.67

Mode B

Test condition		Conducted Power		
		Channel A	Channel B	Channel C
T_{nom}= 23°C	V_{nom} = 7.4 V	[dBm]	[dBm]	[dBm]
		18.36	18.61	18.37

Mode C

Test condition		Conducted Power		
		Channel A	Channel B	Channel C
T_{nom}= 23°C	V_{nom} = 7.4 V	[dBm]	[dBm]	[dBm]
		17.08	17.32	17.51

Mode D

Test condition		Conducted Power		
		Channel A	Channel B	Channel C
T_{nom}= 23°C	V_{nom} = 7.4 V	[dBm]	[dBm]	[dBm]
		16.53	17.57	17.01

Mode E

Test condition		Conducted Power		
		Channel A	Channel B	Channel C
T_{nom}= 23°C	V_{nom} = 7.4 V	[dBm]	[dBm]	[dBm]
		-0.75	-1.47	-0.62

Mode F

Test condition		Conducted Power		
		Channel A	Channel B	Channel C
T_{nom}= 23°C	V_{nom} = 7.4 V	[dBm]	[dBm]	[dBm]
		1.60	0.96	1.98

Test condition T_{nom}= -- °C, V_{nom} = -- V	Signal Field strength TX highest power mode dB μ V/m
Frequency [MHz]	--
--	

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

Explanation: The diagrams for the peak output power measurements are included in Appendix.

3.2 Equivalent isotropic radiated power

FCC Rule: 15.247(b)(3)

EIRP = max. conducted output power + antenna gain
EIRP = 19.88 dBm + 3.50 dBi
= 23.38 dBm
Limit: EIRP = +36 dBm for Antenna gain <6dBi

Test equipment used: ETSTW-RE 055

3.3 RF Exposure Compliance Requirements

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

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

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

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

Limits:

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

Note: This item is not required. Please refer to SAR test report of T1125XX (X=0-9, A-Z ,a-z,or Blank).

3.4 Transmitter Radiated Emissions in Restricted Bands

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

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

Limits.

For frequencies below 1GHz:

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

For frequencies above 1GHz (Average measurements).

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

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

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

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

Explanation: See attached diagrams in Appendix.

3.5 Spurious Emissions (tx)

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

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

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

Limits:

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

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

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

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

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

Test equipment used: ETSTW-RE 003, ETSTW-RE 004, ETSTW-RE 018, ETSTW-RE 028, ETSTW-RE 029, ETSTW-RE 030, ETSTW-RE 042, ETSTW-RE 043, ETSTW-RE 044

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

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

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

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

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

Model: T1125XX,R1100XX,R1101XX(X=0~9,A~Z or Blank) Date:2010/9/2
Mode: WLAN 11B-2412 MHz Temperature: 30.1 °C Engineer: Kevin
Polarization: Horizontal Humidity: 52 %

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
277.2746	13.54	peak	15.59	29.13	46.00	-16.87	180	150
990.1804	5.58	peak	29.09	34.67	54.00	-19.33	310	150

Polarization: Horizontal

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)
4824.0000	46.94	---	-4.94	42.00	---	74.00	54.00	-32.00	110	150
7236.0000	48.52	---	-2.37	46.15	---	74.00	54.00	-27.85	210	150
9648.0000	30.72	---	12.83	43.55	---	74.00	54.00	-30.45	220	150
12060.0000	31.30	---	15.92	47.22	---	74.00	54.00	-26.78	310	150

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
266.9940	19.82	peak	15.09	34.91	46.00	-11.09	110	150
990.1803	9.24	peak	29.09	38.33	54.00	-15.67	20	150

Polarization: Vertical

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)
4824.0000	47.49	---	-4.94	42.55	---	74.00	54.00	-31.45	220	150
7236.0000	48.66	---	-2.37	46.29	---	74.00	54.00	-27.71	250	150
9648.0000	31.01	---	12.83	43.84	---	74.00	54.00	-30.16	110	150
12060.0000	31.30	---	15.92	47.22	---	74.00	54.00	-26.78	310	150

Mode: WLAN 11B-2437 MHz
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
280.5210	14.36	peak	15.74	30.10	46.00	-15.90	160	150
990.1803	9.90	peak	29.09	38.99	54.00	-15.01	130	150

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)		Factor (dB)	Result @3m (dBuV/m)		Limit 3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.			
4905.8120	47.25	---	-4.84	42.41	---	74.00	54.00	-31.59	110	150
7254.5090	49.88	---	-2.47	47.41	---	74.00	54.00	-26.59	210	150
9748.0000	30.79	---	12.80	43.59	---	74.00	54.00	-30.41	210	150
12185.0000	32.07	---	16.40	48.47	---	74.00	54.00	-25.53	225	150

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
266.9940	20.06	peak	15.09	35.15	46.00	-10.85	110	150
978.9578	8.60	peak	28.95	37.55	54.00	-16.45	100	150

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)		Factor (dB)	Result @3m (dBuV/m)		Limit 3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.			
4874.0000	46.68	---	-4.86	41.82	---	74.00	54.00	-32.18	210	150
7311.0000	47.85	---	-2.76	45.09	---	74.00	54.00	-28.91	60	150
9748.0000	31.34	---	12.80	44.14	---	74.00	54.00	-29.86	110	150
12185.0000	31.17	---	16.40	47.57	---	74.00	54.00	-26.43	200	150

Mode: WLAN 11B-2462 MHz
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
279.9800	14.83	peak	15.73	30.56	46.00	-15.44	210	150
990.1803	8.41	peak	29.09	37.50	54.00	-16.50	170	150

Polarization: Horizontal

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)
4841.6830	50.07	---	-4.91	45.16	---	74.00	54.00	-28.84	100	150
7236.0000	47.26	---	-2.37	44.89	---	74.00	54.00	-29.11	310	150
9648.0000	29.49	---	12.83	42.32	---	74.00	54.00	-31.68	110	150
12060.0000	30.54	---	15.92	46.46	---	74.00	54.00	-27.54	201	150

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
277.2746	16.17	peak	15.59	31.76	46.00	-14.24	110	150
985.9720	7.53	peak	29.04	36.57	54.00	-17.43	100	150

Polarization: Vertical

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)
4841.6830	49.88	---	-4.91	44.97	---	74.00	54.00	-29.03	110	150
7270.5410	50.03	---	-2.55	47.48	---	74.00	54.00	-26.52	310	150
9848.0000	30.98	---	13.02	44.00	---	74.00	54.00	-30.00	110	150
12310.0000	30.51	---	16.46	46.97	---	74.00	54.00	-27.03	250	150

Mode: WLAN 11G-2412 MHz

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
274.0280	13.98	peak	15.42	29.40	46.00	-16.60	30	150
969.1382	7.95	peak	28.82	36.77	54.00	-17.23	50	150

Polarization: Horizontal

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)
4824.0000	46.02	---	-4.94	41.08	---	74.00	54.00	-32.92	310	150
7236.0000	45.57	---	-2.37	43.20	---	74.00	54.00	-30.80	50	150
9648.0000	30.33	---	12.83	43.16	---	74.00	54.00	-30.84	220	150
12060.0000	32.16	---	15.92	48.08	---	74.00	54.00	-25.92	310	150

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
266.9940	16.59	peak	15.09	31.68	46.00	-14.32	110	150
990.1803	9.32	peak	29.09	38.41	54.00	-15.59	100	150

Polarization: Vertical

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)
4824.0000	46.92	---	-4.94	41.98	---	74.00	54.00	-32.02	260	150
7236.0000	49.49	---	-2.37	47.12	---	74.00	54.00	-26.88	170	150
9648.0000	31.18	---	12.83	44.01	---	74.00	54.00	-29.99	140	150
12060.0000	32.61	---	15.92	48.53	---	74.00	54.00	-25.47	220	150

Mode: WLAN 11G-2437 MHz

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
266.9940	13.23	peak	15.09	28.32	46.00	-17.68	260	150
990.1803	8.79	peak	29.09	37.88	54.00	-16.12	110	150

Polarization: Horizontal

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)
4874.0000	47.33	---	-4.86	42.47	---	74.00	54.00	-31.53	110	150
7311.0000	47.83	---	-2.76	45.07	---	74.00	54.00	-28.93	90	150
9748.0000	31.19	---	12.80	43.99	---	74.00	54.00	-30.01	210	150
12185.0000	31.31	---	16.40	47.71	---	74.00	54.00	-26.29	200	150

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
266.9940	17.69	peak	15.09	32.78	46.00	-13.22	130	150
990.1803	8.87	peak	29.09	37.96	54.00	-16.04	310	150

Polarization: Vertical

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)
4874.0000	46.66	---	-4.86	41.80	---	74.00	54.00	-32.20	170	150
7311.0000	49.03	---	-2.76	46.27	---	74.00	54.00	-27.73	260	150
9748.0000	31.19	---	12.80	43.99	---	74.00	54.00	-30.01	290	150
12185.0000	31.57	---	16.40	47.97	---	74.00	54.00	-26.03	120	150

Mode: WLAN 11G-2462 MHz

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
265.3707	13.49	peak	15.02	28.51	46.00	-17.49	210	150
990.1803	8.46	peak	29.09	37.55	54.00	-16.45	80	150

Polarization: Horizontal

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)
4924.0000	47.23	---	-4.89	42.34	---	74.00	54.00	-31.66	30	150
7386.0000	47.61	---	-3.09	44.52	---	74.00	54.00	-29.48	210	150
9848.0000	31.05	---	13.02	44.07	---	74.00	54.00	-29.93	280	150
12310.0000	31.95	---	16.46	48.41	---	74.00	54.00	-25.59	80	150

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
265.9118	17.85	peak	15.05	32.90	46.00	-13.10	170	150
990.1803	8.45	peak	29.09	37.54	54.00	-16.46	310	150

Polarization: Vertical

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)
4924.0000	46.28	---	-4.89	41.39	---	74.00	54.00	-32.61	110	150
7386.0000	49.00	---	-3.09	45.91	---	74.00	54.00	-28.09	85	150
9848.0000	30.81	---	13.02	43.83	---	74.00	54.00	-30.17	170	150
12310.0000	31.91	---	16.46	48.37	---	74.00	54.00	-25.63	145	150

Mode: WLAN 11n 20M-2412 MHz
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
272.4048	13.80	peak	15.34	29.14	46.00	-16.86	165	150
990.1803	8.04	peak	29.09	37.13	54.00	-16.87	220	150

Polarization: Horizontal

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)
4824.0000	46.47	---	-4.94	41.53	---	74.00	54.00	-32.47	45	150
7236.0000	47.71	---	-2.37	45.34	---	74.00	54.00	-28.66	120	150
9648.0000	29.62	---	12.83	42.45	---	74.00	54.00	-31.55	220	150
12060.0000	30.91	---	15.92	46.83	---	74.00	54.00	-27.17	310	150

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
266.9940	19.20	peak	15.09	34.29	46.00	-11.71	110	150
990.1803	10.08	peak	29.09	39.17	54.00	-14.83	315	150

Polarization: Vertical

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)
4824.0000	45.94	---	-4.94	41.00	---	74.00	54.00	-33.00	305	150
7236.0000	46.99	---	-2.37	44.62	---	74.00	54.00	-29.38	210	150
9648.0000	29.66	---	12.83	42.49	---	74.00	54.00	-31.51	160	150
12060.0000	30.37	---	15.92	46.29	---	74.00	54.00	-27.71	270	150

Mode: WLAN 11n 20M-2437 MHz
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
274.5690	13.58	peak	15.45	29.03	46.00	-16.97	310	150
987.3748	8.02	peak	29.06	37.08	54.00	-16.92	160	150

Polarization: Horizontal

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)
4874.0000	47.36	---	-4.86	42.50	---	74.00	54.00	-31.50	180	150
7311.0000	48.06	---	-2.76	45.30	---	74.00	54.00	-28.70	205	150
9748.0000	30.54	---	12.80	43.34	---	74.00	54.00	-30.66	110	150
12185.0000	29.98	---	16.40	46.38	---	74.00	54.00	-27.62	60	150

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
265.3708	18.57	peak	15.02	33.59	46.00	-12.41	170	150
987.3748	8.18	peak	29.06	37.24	54.00	-16.76	110	150

Polarization: Vertical

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)
4874.0000	46.65	---	-4.86	41.79	---	74.00	54.00	-32.21	170	150
7311.0000	48.45	---	-2.76	45.69	---	74.00	54.00	-28.31	80	150
9748.0000	30.30	---	12.80	43.10	---	74.00	54.00	-30.90	110	150
12185.0000	29.80	---	16.40	46.20	---	74.00	54.00	-27.80	105	150

Mode: WLAN 11n 20M-2462 MHz

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
269.1582	13.00	peak	15.18	28.18	46.00	-17.82	190	150
990.1803	8.45	peak	29.09	37.54	54.00	-16.46	170	150

Polarization: Horizontal

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)
4924.0000	46.62	---	-4.89	41.73	---	74.00	54.00	-32.27	120	150
7386.0000	47.87	---	-3.09	44.78	---	74.00	54.00	-29.22	85	150
9848.0000	30.71	---	13.02	43.73	---	74.00	54.00	-30.27	110	150
12310.0000	32.11	---	16.46	48.57	---	74.00	54.00	-25.43	240	150

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
266.9940	17.61	peak	15.09	32.70	46.00	-13.30	105	150
990.1803	8.46	peak	29.09	37.55	54.00	-16.45	205	150

Polarization: Vertical

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)
4924.0000	46.44	---	-4.89	41.55	---	74.00	54.00	-32.45	110	150
7386.0000	47.97	---	-3.09	44.88	---	74.00	54.00	-29.12	50	150
9848.0000	31.08	---	13.02	44.10	---	74.00	54.00	-29.90	75	150
12310.0000	31.54	---	16.46	48.00	---	74.00	54.00	-26.00	120	150

Mode: WLAN 11n 40M-2422 MHz

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
283.2264	13.05	peak	15.81	28.86	46.00	-17.14	160	150
987.3748	8.10	peak	29.06	37.16	54.00	-16.84	95	150

Polarization: Horizontal

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)
4844.0000	46.21	---	-4.91	41.30	---	74.00	54.00	-32.70	110	150
7266.0000	46.83	---	-2.53	44.30	---	74.00	54.00	-29.70	105	150
9688.0000	31.03	---	12.65	43.68	---	74.00	54.00	-30.32	110	150
12110.0000	32.09	---	16.05	48.14	---	74.00	54.00	-25.86	300	150

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
266.9940	16.59	peak	15.09	31.68	46.00	-14.32	110	150
990.1803	9.22	peak	29.09	38.31	54.00	-15.69	25	150

Polarization: Vertical

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)
4844.0000	46.45	---	-4.91	41.54	---	74.00	54.00	-32.46	205	150
7266.0000	47.24	---	-2.53	44.71	---	74.00	54.00	-29.29	80	150
9688.0000	30.64	---	12.65	43.29	---	74.00	54.00	-30.71	115	150
12110.0000	30.88	---	16.05	46.93	---	74.00	54.00	-27.07	290	150

Mode: WLAN 11n 40M-2437 MHz
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
264.8297	12.93	peak	15.00	27.93	46.00	-18.07	80	150
990.1803	8.84	peak	29.09	37.93	54.00	-16.07	80	150

Polarization: Horizontal

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)
4874.0000	46.81	---	-4.86	41.95	---	74.00	54.00	-32.05	110	150
7311.0000	47.87	---	-2.76	45.11	---	74.00	54.00	-28.89	310	150
9748.0000	31.09	---	12.80	43.89	---	74.00	54.00	-30.11	80	150
12185.0000	29.98	---	16.40	46.38	---	74.00	54.00	-27.62	160	150

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
265.9118	19.98	peak	15.05	35.03	46.00	-10.97	170	150
990.1803	8.79	peak	29.09	37.88	54.00	-16.12	60	150

Polarization: Vertical

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)
4874.0000	47.36	---	-4.86	42.50	---	74.00	54.00	-31.50	220	150
7311.0000	47.49	---	-2.76	44.73	---	74.00	54.00	-29.27	130	150
9748.0000	31.11	---	12.80	43.91	---	74.00	54.00	-30.09	210	150
12185.0000	31.49	---	16.40	47.89	---	74.00	54.00	-26.11	205	150

Mode: WLAN 11n 40M-2452 MHz
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
275.6512	14.46	peak	15.51	29.97	46.00	-16.03	60	150
987.3748	7.65	peak	29.06	36.71	54.00	-17.29	60	150

Polarization: Horizontal

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)
4904.0000	45.88	---	-4.83	41.05	---	74.00	54.00	-32.95	105	150
7356.0000	48.03	---	-2.96	45.07	---	74.00	54.00	-28.93	230	150
9808.0000	30.44	---	13.01	43.45	---	74.00	54.00	-30.55	220	150
12260.0000	31.68	---	16.46	48.14	---	74.00	54.00	-25.86	60	150

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
266.9940	19.26	peak	15.09	34.35	46.00	-11.65	105	150
990.1803	9.14	peak	29.09	38.23	54.00	-15.77	160	150

Polarization: Vertical

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)
4904.0000	48.15	---	-4.83	43.32	---	74.00	54.00	-30.68	110	150
7356.0000	47.75	---	-2.96	44.79	---	74.00	54.00	-29.21	60	150
9808.0000	30.43	---	13.01	43.44	---	74.00	54.00	-30.56	210	150
12260.0000	33.19	---	16.46	49.65	---	74.00	54.00	-24.35	90	150

Mode: Bluetooth 2402 MHz

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
279.4388	13.61	peak	15.70	29.31	46.00	-16.69	110	150
990.1804	8.65	peak	29.09	37.74	54.00	-16.26	170	150

Polarization: Horizontal

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)
4804.0000	46.91	---	-4.97	41.94	---	74.00	54.00	-32.06	110	150
7206.0000	50.69	---	-2.21	48.48	---	74.00	54.00	-25.52	210	150
9608.0000	31.27	---	13.01	44.28	---	74.00	54.00	-29.72	110	150
12010.0000	32.19	---	15.83	48.02	---	74.00	54.00	-25.98	50	150

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
111.7035	16.76	peak	12.85	29.61	43.50	-13.89	130	150
990.1804	9.57	peak	29.09	38.66	54.00	-15.34	40	150

Polarization: Vertical

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)
4804.0000	46.67	---	-4.97	41.70	---	74.00	54.00	-32.30	220	150
7206.0000	47.77	---	-2.21	45.56	---	74.00	54.00	-28.44	140	150
9608.0000	30.89	---	13.01	43.90	---	74.00	54.00	-30.10	110	150
12010.0000	31.50	---	15.83	47.33	---	74.00	54.00	-26.67	310	150

Mode: Bluetooth 2441 MHz

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
281.0620	13.46	peak	15.76	29.22	46.00	-16.78	145	150
990.1804	8.50	peak	29.09	37.59	54.00	-16.41	130	150

Polarization: Horizontal

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)
4882.0000	47.32	---	-4.85	42.47	---	74.00	54.00	-31.53	210	150
7323.0000	48.22	---	-2.81	45.41	---	74.00	54.00	-28.59	220	150
9764.0000	31.11	---	12.86	43.97	---	74.00	54.00	-30.03	310	150
12205.0000	31.81	---	16.47	48.28	---	74.00	54.00	-25.72	330	150

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
266.9940	16.55	peak	15.09	31.64	46.00	-14.36	210	150
990.1804	10.43	peak	29.09	39.52	54.00	-14.48	110	150

Polarization: Vertical

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)
4882.0000	46.80	---	-4.85	41.95	---	74.00	54.00	-32.05	210	150
7323.0000	47.96	---	-2.81	45.15	---	74.00	54.00	-28.85	310	150
9764.0000	31.76	---	12.86	44.62	---	74.00	54.00	-29.38	210	150
12205.0000	31.37	---	16.47	47.84	---	74.00	54.00	-26.16	60	150

Mode: Bluetooth 2480 MHz
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
281.6032	13.31	peak	15.77	29.08	46.00	-16.92	120	150
990.1804	9.22	peak	29.09	38.31	54.00	-15.69	170	150

Polarization: Horizontal

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)
4960.0000	47.11	---	-5.00	42.11	---	74.00	54.00	-31.89	110	150
7440.0000	48.46	---	-3.19	45.27	---	74.00	54.00	-28.73	50	150
9920.0000	31.22	---	13.28	44.5	---	74.00	54.00	-29.50	210	150
12400.0000	31.97	---	16.51	48.48	---	74.00	54.00	-25.52	60	150

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
265.9118	16.28	peak	15.05	31.33	46.00	-14.67	170	150
990.1804	9.14	peak	29.09	38.23	54.00	-15.77	220	150

Polarization: Vertical

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)
4960.0000	47.01	---	-5.00	42.01	---	74.00	54.00	-31.99	100	150
7440.0000	49.26	---	-3.19	46.07	---	74.00	54.00	-27.93	190	150
9920.0000	31.08	---	13.28	44.36	---	74.00	54.00	-29.64	130	150
12400.0000	31.09	---	16.51	47.60	---	74.00	54.00	-26.40	330	150

Note
1. **Correction Factor = Antenna factor + Cable loss - Preamplifier**
2. **The formula of measured value as: Test Result = Reading + Correction Factor**
3. **Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average**
4. **All not in the table noted test results are more than 20 dB below the relevant limits.**
5. **See the attached diagram as 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 028, ETSTW-RE 029, ETSTW-RE 030, ETSTW-RE 042, ETSTW-RE 043, ETSTW-RE 044

3.6 Carrier Frequency Separation

Carrier Frequency Separation was measured with modulation (declared by manufacturer).

According to FCC rules part 15 subpart C §15.247 frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or 20 dB bandwidth of the hopping channel, whichever is greater.

Mode E and Mode F:

Test conditions		Channel Separation	
		Channel 0	Channel 0+1
T_{nom}= 23°C	V_{nom} = 7.4 V	1,000 kHz	

Test conditions		Channel Separation	
		Channel 39	Channel 39+1
T_{nom}= 23°C	V_{nom} = 7.4 V	1,000 kHz	

Test conditions		Channel Separation	
		Channel 78	Channel 78+1
T_{nom}= 23°C	V_{nom} = 7.4 V	1,000 kHz	

Limits:

Frequency Range MHz	Limits	
	20 dB bandwidth < 25 kHz	20 dB bandwidth > 25 kHz
902-928	25 kHz	20 dB bandwidth
2400-2483.5 5725-5850.0	25 kHz	20 dB bandwidth

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

Explanation: This test is not applicable for Mode A, Mode B, Mode C, and Mode D because these modes are not FHSS modulation. Please see attached diagrams in appendix.

3.7 Number of Hopping Frequencies

According to FCC rules part 15 subpart C §15.247 frequency hopping systems operating in the 2400-2483.5 MHz band shall use at least 15 hopping frequencies. Frequency hopping systems in 5725-5850 MHz bands shall use least 75 hopping frequencies.

For frequency hopping systems operating in the 902-928 MHz band: if the 20dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies; if the 20dB bandwidth of the hopping channel 250 kHz or greater, the system shall use at least 25 hopping frequencies.

Mode E and Mode F:

Test conditions		Operating Mode	Number of Channels
T_{nom}= 23°C	V_{nom} = 7.4 V	normal transmitting	79

Limits:

Frequency Range MHz	Limit	
	20dB Bandwidth	Number of Channels
902-928 MHz	Bandwidth < 250 kHz	≥ 50
	Bandwidth ≥ 250 kHz	≥ 25
2400-2483.5	not defined	15
5725-5850.0 MHz	1 MHz	75

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

Explanation: This test is not applicable for Mode A, Mode B, Mode C, and Mode D because these modes are not FHSS modulation. Please see attached diagrams in appendix.

3.7.1 Pseudorandom Frequency Hopping Sequence

The generation of the hopping sequence is determined by the Bluetooth cord specification and complies with the FCC requirements.

3.7.2 Coordination of hopping sequences to other transmitters

According to the Bluetooth core specification V1.1 such a coordination is not possible. During scatternet function only one of the two hopping sequences will be used at a definite moment.

3.7.3 System Receiver Hopping Capability

According to the Bluetooth core specification. The system receivers shift frequencies in synchronization with the transmitted signals.

3.8 Time of Occupancy (Dwell Time)

Frequency hopping systems operating in the 5725-5850 MHz band shall use an average time of occupancy on any frequency not greater than 0.4 seconds within a 30 second period.

In 2400-2483.5 MHz band the average time of occupancy on any channel shall not be greater than 0.4 seconds multiplied by the number of hopping channels employed.

For frequency hopping systems operating in the 902-928 MHz band: if the 20dB bandwidth of the hopping channel is less than 250 kHz, the average time of occupancy on any frequency shall not greater than 0.4 seconds within a 20 second period; if the 20dB bandwidth of the hopping channel is 250 kHz or greater, the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period.

Mode E and Mode F:

Test conditions	**Operating mode**	**Measurement period**	**Time of Occupancy**
T_{nom}= 23°C V_{nom} = 7.4 V Channel 0	normal transmitting-DH 1	31.6 s	147.52 ms
	normal transmitting-DH 3	31.6 s	275.84 ms
	normal transmitting-DH 5	31.6 s	327.14 ms

Test conditions	**Operating mode**	**Measurement period**	**Time of Occupancy**
T_{nom}= 23°C V_{nom} = 7.4 V Channel 39	normal transmitting-DH 1	31.6 s	147.52 ms
	normal transmitting-DH 3	31.6 s	275.84 ms
	normal transmitting-DH 5	31.6 s	327.14 ms

Test conditions	**Operating mode**	**Measurement period**	**Time of Occupancy**
T_{nom}= 23°C V_{nom} = 7.4 V Channel 78	normal transmitting-DH 1	31.6 s	147.52 ms
	normal transmitting-DH 3	31.6 s	275.84 ms
	normal transmitting-DH 5	31.6 s	327.14 ms

Limits and measurement periods:

Frequency MHz	Number of channels	Measurement Periode	Limit
902 – 928	≥50	20 s	0.4 s
	49 ≥ 25	10 s	0.4 s
2400 – 2483.5	≥ 15	0.4 s * number of used channels	0.4 s
5725- 5850	≥ 75	30 s	0.4s

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

Explanation: This test is not applicable for Mode A, Mode B, Mode C, and Mode D because these modes are not FHSS modulation. Please see attached diagrams in appendix, which show the On-time and the number of counted events during the measurement period.

3.9 20dB Bandwidth

Frequency hopping systems operating in the 5725-5850 MHz bands shall use a maximum 20dB bandwidth of 1 MHz.
The 20dB bandwidth is measured on the lowest, middle and highest hopping channel.

For frequency hopping systems operating in the 902-928 MHz band the maximum 20dB bandwidth of the hopping channel is 500 kHz.

Mode E:

Test conditions		20 dB Bandwidth		
		Channel A	Channel B	Channel C
T_{nom}= 23°C	V_{nom} = 7.4 V	910.256410256 kHz	955.128205128 kHz	955.128205128 kHz

Mode F:

Test conditions		20 dB Bandwidth		
		Channel A	Channel B	Channel C
T_{nom}= 23°C	V_{nom} = 7.4 V	1.294871795 MHz	1.294871795 MHz	1.288461538 MHz

Limits:

Frequency Range / MHz	Limit
902-928	≤ 500 kHz
2400-2483.5	not defined
5725-5850	≤ 1 MHz

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

Explanation: This test is not applicable for Mode A, Mode B, Mode C, and Mode D because these modes are not FHSS modulation. Please see attached diagrams in appendix.

3.9.1 System Receiver Input Bandwidth

It is determined in the Bluetooth core specification. The value matches to the bandwidth of transmitter signal.

3.10 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

Test conditions		6 dB Bandwidth		
		Channel 1	Channel 6	Channel 11
T_{nom}= 23°C	V_{nom} = 7.4 V	10.160256410 MHz	10.160256410 MHz	10.160256410 MHz

Mode B

Test conditions		6 dB Bandwidth		
		Channel 1	Channel 6	Channel 11
T_{nom}= 23°C	V_{nom} = 7.4 V	16.570512821 MHz	16.570512821 MHz	16.570512821 MHz

Mode C

Test conditions		6 dB Bandwidth		
		Channel 1	Channel 6	Channel 11
T_{nom}= 23°C	V_{nom} = 7.4 V	17.852564103 MHz	17.852564103 MHz	17.852564103 MHz

Mode D

Test conditions		6 dB Bandwidth		
		Channel 1	Channel 4	Channel 7
T_{nom}= 23°C	V_{nom} = 7.4 V	36.602564103 MHz	36.602564103 MHz	36.538461538 MHz

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

Explanation: This test is not applicable for Mode E and Mode F because these two modes are not DSSS, OFDM modulation. Please see attached diagrams in appendix.

3.11 Band-edge Compliance of RF Conducted Emissions

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

Test conditions		Attenuation at or outside band-edges	
		Lower Band-edge	Upper Band-edge
T_{nom}= 23°C	V_{nom} = 7.4 V	38.26 dB	52.92 dB

Mode B

Test conditions		Attenuation at or outside band-edges	
		Lower Band-edge	Upper Band-edge
T_{nom}= 23°C	V_{nom} = 7.4 V	31.42 dB	48.15 dB

Mode C

Test conditions		Attenuation at or outside band-edges	
		Lower Band-edge	Upper Band-edge
T_{nom}= 23°C	V_{nom} = 7.4 V	31.88 dB	46.82 dB

Mode D

Test conditions		Attenuation at or outside band-edges	
		Lower Band-edge	Upper Band-edge
T_{nom}= 23°C	V_{nom} = 7.4 V	30.62 dB	42.52 dB

Mode E

Test conditions		Attenuation at or outside band-edges **Single Frequency**	
		Lower Band-edge	Upper Band-edge
T_{nom}= 23°C	V_{nom} = 7.4 V	50.24 dB	53.45 dB

Test conditions		Attenuation at or outside band-edges **Hopping Frequency**	
		Lower Band-edge	Upper Band-edge
T_{nom}= 23°C	V_{nom} = 7.4 V	51.26 dB	53.49 dB

Mode F

Test conditions		Attenuation at or outside band-edges **Single Frequency**	
		Lower Band-edge	Upper Band-edge
T_{nom}= 23°C	V_{nom} = 7.4 V	50.09 dB	54.67 dB

Test conditions		Attenuation at or outside band-edges **Hopping Frequency**	
		Lower Band-edge	Upper Band-edge
T_{nom}= 23°C	V_{nom} = 7.4 V	50.09 dB	53.54 dB

Limit:

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

Test equipment used: ETSTW-RE 055

Explanation: Please see attached diagram as appendix.

3.12 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

Test conditions		Peak Power Spectral Density (3 kHz)		
		Channel 1 [dBm]	Channel 6 [dBm]	Channel 11 [dBm]
T_{nom}= 23°C	V_{nom} = 7.4 V	-17.05	-17.18	-17.04

Mode B

Test conditions		Peak Power Spectral Density (3 kHz)		
		Channel 1 [dBm]	Channel 6 [dBm]	Channel 11 [dBm]
T_{nom}= 23°C	V_{nom} = 7.4 V	-15.46	-15.34	-15.51

Mode C

Test conditions		Peak Power Spectral Density (3 kHz)		
		Channel 1 [dBm]	Channel 6 [dBm]	Channel 11 [dBm]
T_{nom}= 23°C	V_{nom} = 7.4 V	-17.39	-17.42	-16.86

Mode D

Test conditions		Peak Power Spectral Density (3 kHz)		
		Channel 1 [dBm]	Channel 4 [dBm]	Channel 7 [dBm]
T_{nom}= 23°C	V_{nom} = 7.4 V	-19.33	-19.14	-19.55

Limits:

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

Test equipment used: ETSTW-RE 055

Explanation: This test is not applicable for Mode E and Mode F because these two modes are not DSSS, OFDM modulation. Please see attached diagrams in appendix.

3.13 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 028, ETSTW-RE 029, ETSTW-RE 030, ETSTW-RE 042, ETSTW-RE 043, ETSTW-RE 044

Explanation: The test results are listed in the separated test report no. W6M21008-10827-P-15B.

3.14 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

Model: T1125XX,R1100XX,R1101XX(X=0~9,A~Z or Blank) Date: 2010/9/7
Mode: Temperature: 24 °C Engineer: Kevin
Polarization: N Humidity: 60 %

Frequency (MHz)	Reading (dBuV) QP	Reading (dBuV) Ave.	Factor (dB) Corr.	Result (dBuV) QP	Result (dBuV) Ave.	Limit (dBuV) QP	Limit (dBuV) Ave.	Margin (dB)
0.1796	32.94	8.24	10.76	43.70	19.00	64.50	54.50	-20.80
0.2870	31.51	17.15	10.72	42.23	27.87	60.61	50.61	-18.38
0.4957	35.01	18.75	10.67	45.68	29.42	56.07	46.07	-10.39
0.7186	37.69	21.05	10.54	48.23	31.59	56.00	46.00	-7.77
0.8487	33.52	12.71	10.47	43.99	23.18	56.00	46.00	-12.01
1.0094	35.79	16.38	10.38	46.17	26.76	56.00	46.00	-9.83

Polarization: L1

Frequency (MHz)	Reading (dBuV) QP	Reading (dBuV) Ave.	Factor (dB) Corr.	Result (dBuV) QP	Result (dBuV) Ave.	Limit (dBuV) QP	Limit (dBuV) Ave.	Margin (dB)
0.2013	38.68	25.50	10.78	49.46	36.28	63.56	53.56	-14.10
0.2476	25.70	0.01	10.73	36.43	10.74	61.84	51.84	-25.41
0.5100	34.21	18.60	10.66	44.87	29.26	56.00	46.00	-11.13
0.6840	35.82	17.00	10.57	46.39	27.57	56.00	46.00	-9.61
1.0150	33.87	15.10	10.39	44.26	25.49	56.00	46.00	-11.74
1.3250	32.31	13.52	10.29	42.60	23.81	56.00	46.00	-13.40

Note:

1. **The formula of measured value as: Test Result = Reading + Correction Factor**
2. **The Correction Factor = Cable Loss + LISN Insertion Loss + Pulse Limit Loss**
3. **Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average**
4. **All not in the table noted test results are more than 20 dB below the relevant limits.**
5. **Measurement uncertainty = ± 1.30dB; Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.**
6. **See attached diagrams as appendix.**

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

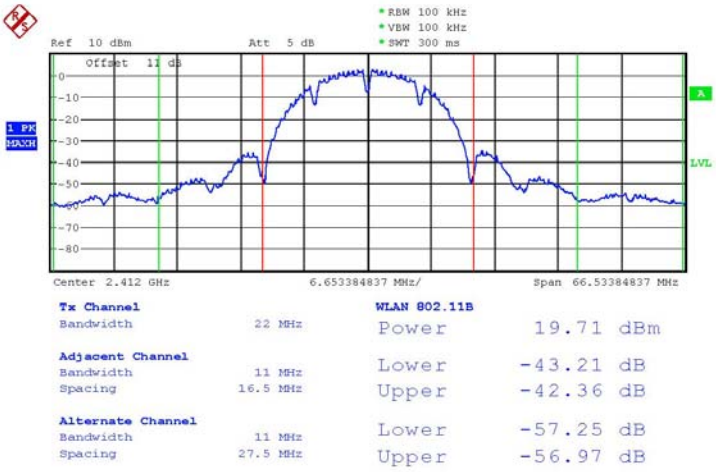
A. Measurement diagrams

1. Peak Output Power
2. Spurious Emissions radiated
3. Carrier Frequency Separation
4. Number of Hopping Frequencies
5. Time of Occupancy (Dwell Time)
6. 20dB Bandwidth
7. Minimum 6dB Bandwidth
8. Band-edge Compliance of RF Conducted Emissions
9. Peak Power Spectral Density
10. Power Line Conducted Emission

B. Photos

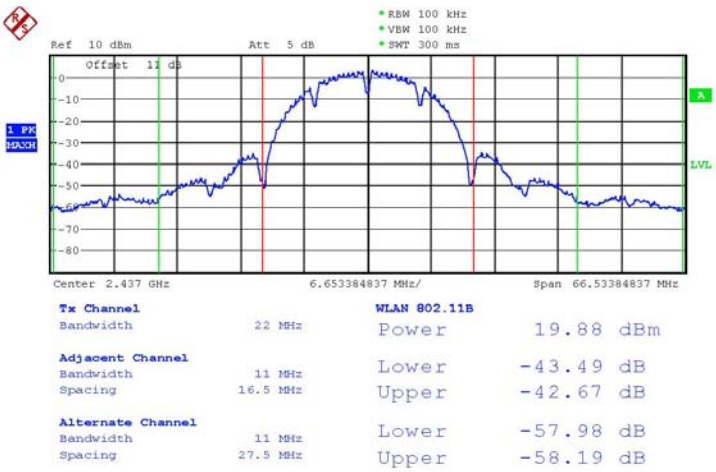
1. External Photos
2. Internal Photos
3. Set Up Photo of Radiated Emission
4. Set Up Photo of Conducted Emission

Peak Output Power
WLAN mode (mode A)



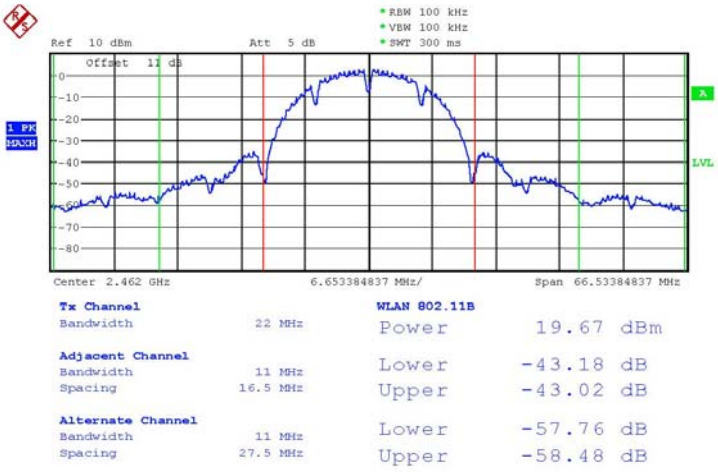
MAX OUTPUT POWER 802.11b CH1

Date: 6.SEP.2010 14:34:40



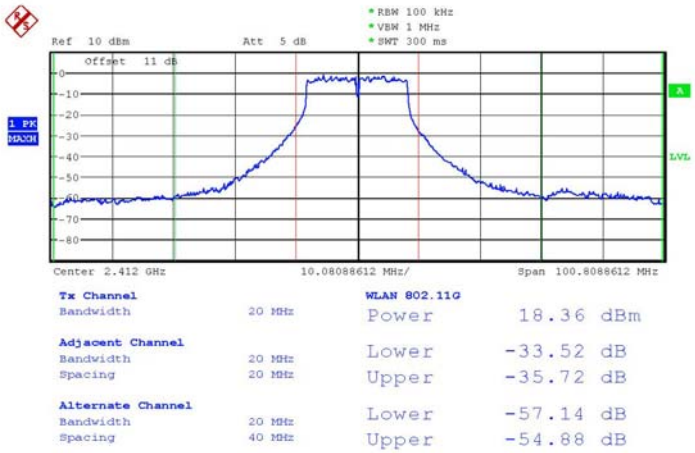
MAX OUTPUT POWER 802.11b CH6

Date: 6.SEP.2010 14:36:07

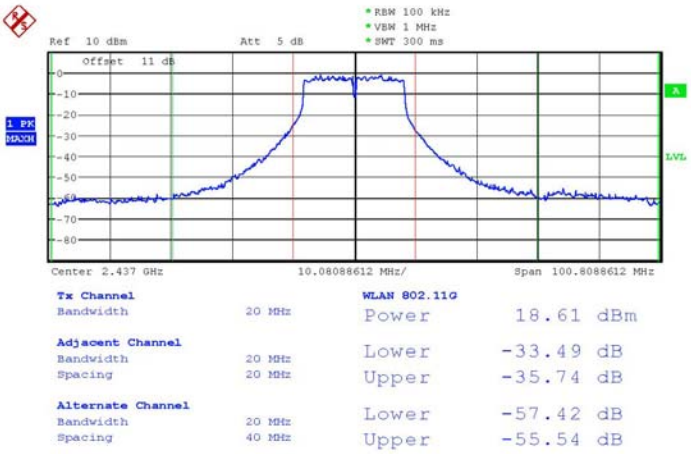


MAX OUTPUT POWER 802.11b CH11
Date: 6.SEP.2010 14:36:45

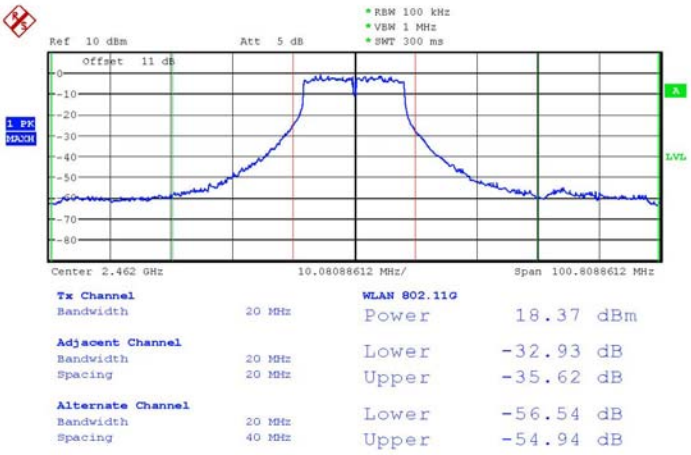
WLAN mode (mode B)



MAX OUTPUT POWER 802.11g CH1
Date: 6.SEP.2010 14:40:24

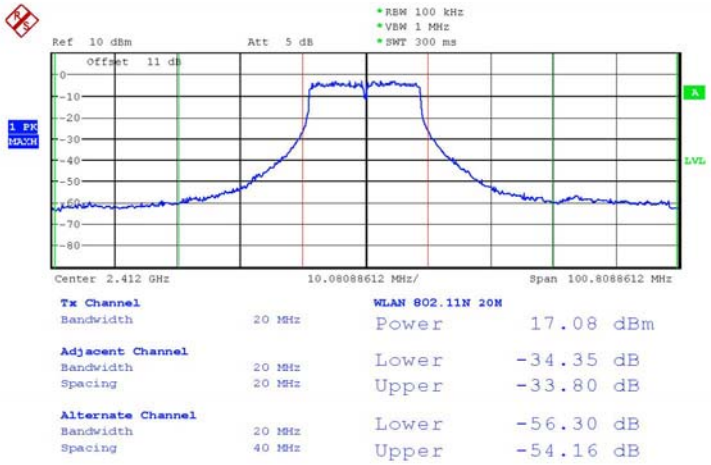


MAX OUTPUT POWER 802.11g CH6
Date: 6.SEP.2010 14:39:44

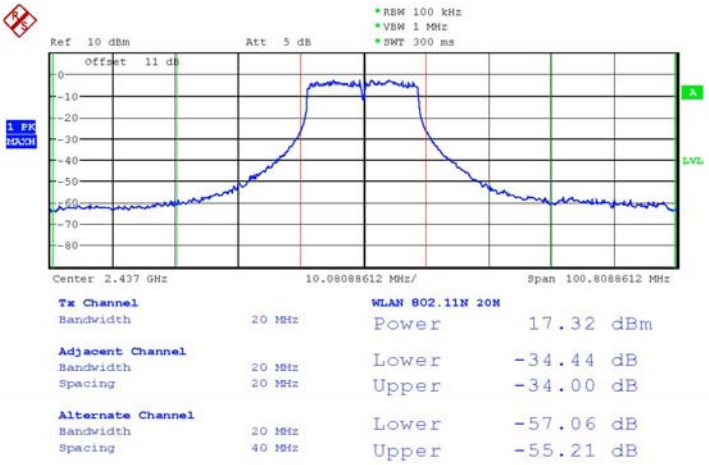


MAX OUTPUT POWER 802.11g CH11
Date: 6.SEP.2010 14:39:03

WLAN mode (mode C)

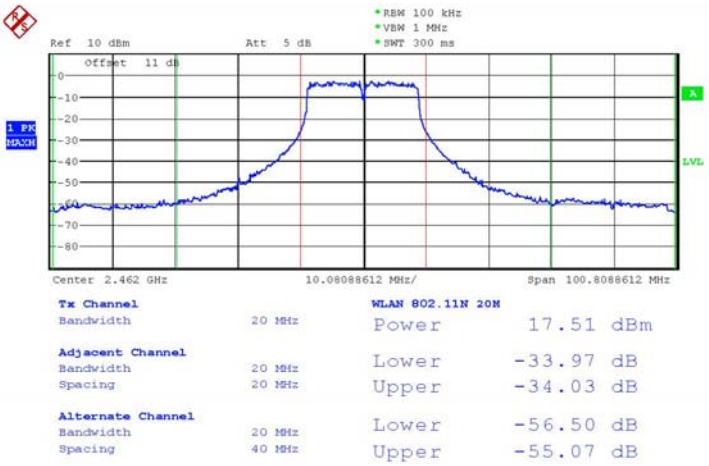


MAX OUTPUT POWER 802.11n 20M CH1
Date: 6.SEP.2010 14:41:29



MAX OUTPUT POWER 802.11n 20M CH6

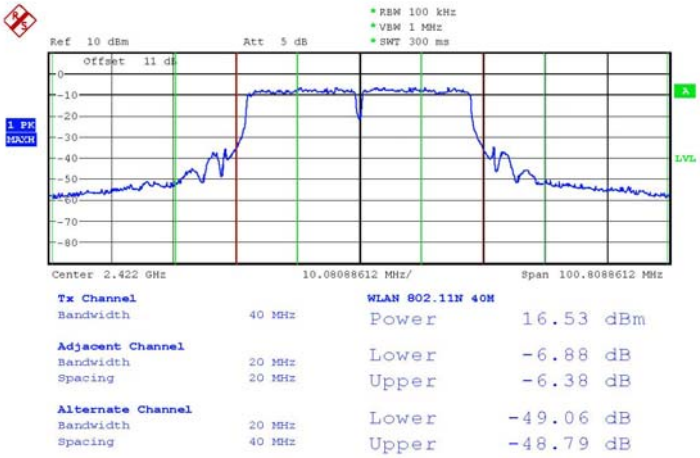
Date: 6.SEP.2010 14:42:05



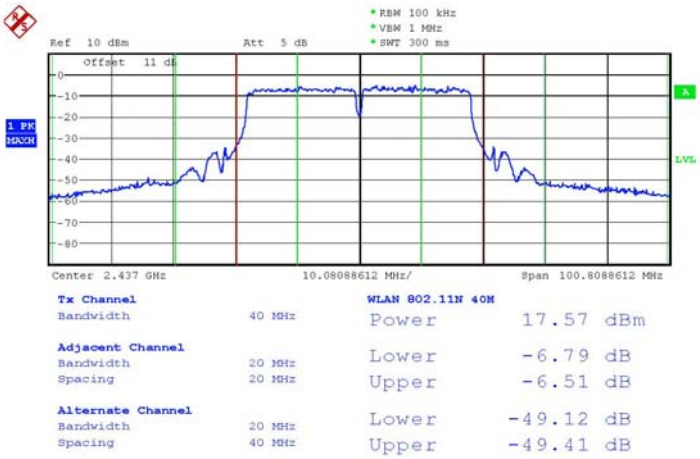
MAX OUTPUT POWER 802.11n 20M CH11

Date: 6.SEP.2010 14:42:34

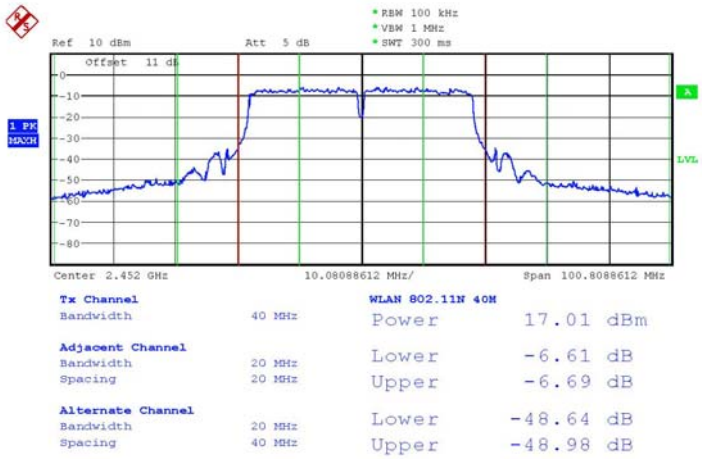
WLAN mode (mode D)



MAX OUTPUT POWER 802.11n 40M CH1
Date: 6.SEP.2010 14:52:28

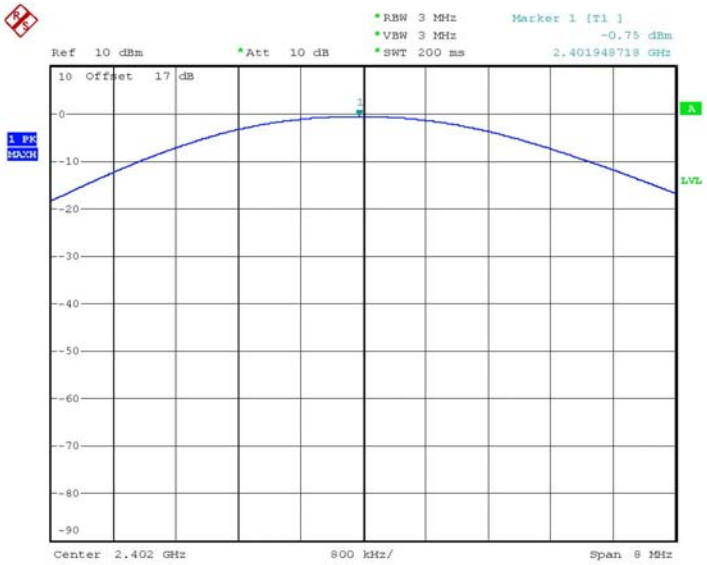


MAX OUTPUT POWER 802.11n 40M CH4
Date: 6.SEP.2010 14:58:45

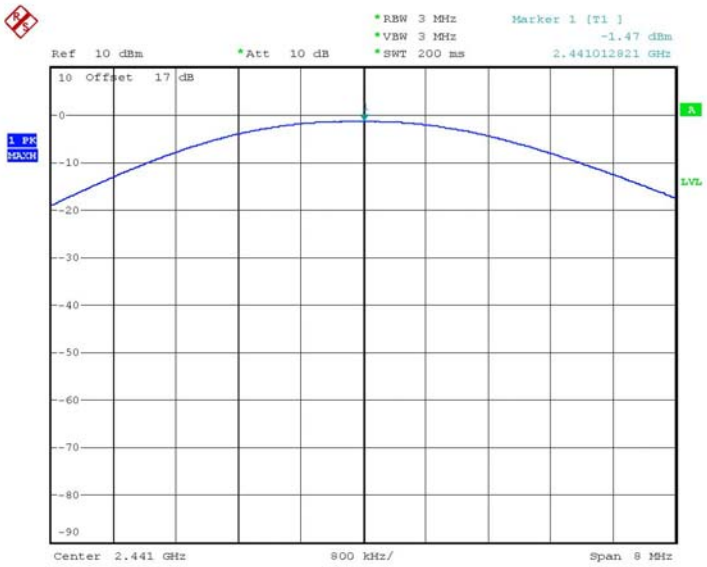


MAX OUTPUT POWER 802.11n 40M CH7
Date: 6.SEP.2010 14:59:12

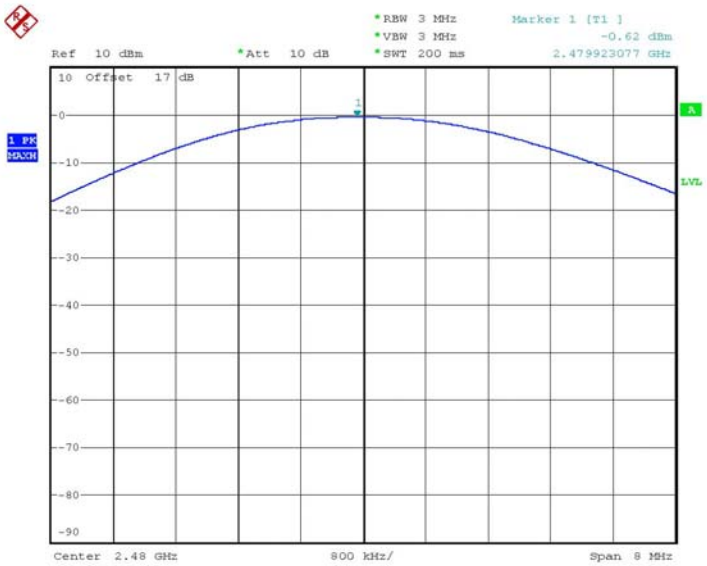
Bluetooth mode (mode E)



MAX OUTPUT POWER CH0
Date: 30.AUG.2010 13:52:18

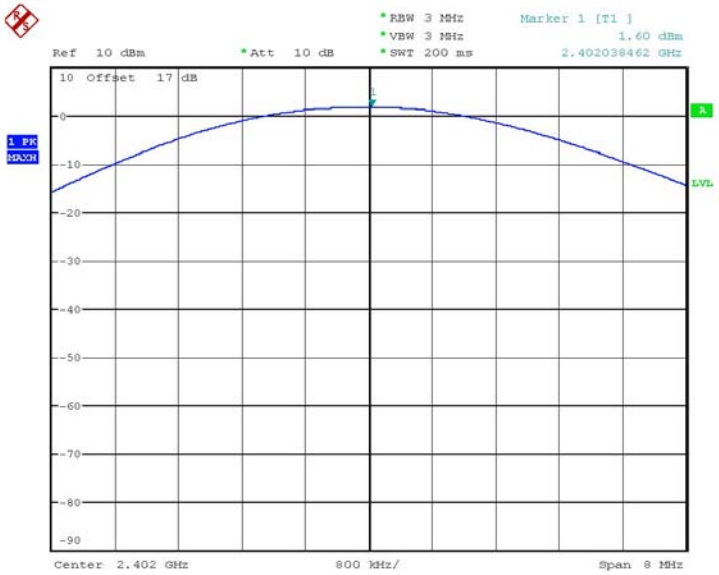


MAX OUTPUT POWER CH39
Date: 30.AUG.2010 13:52:48

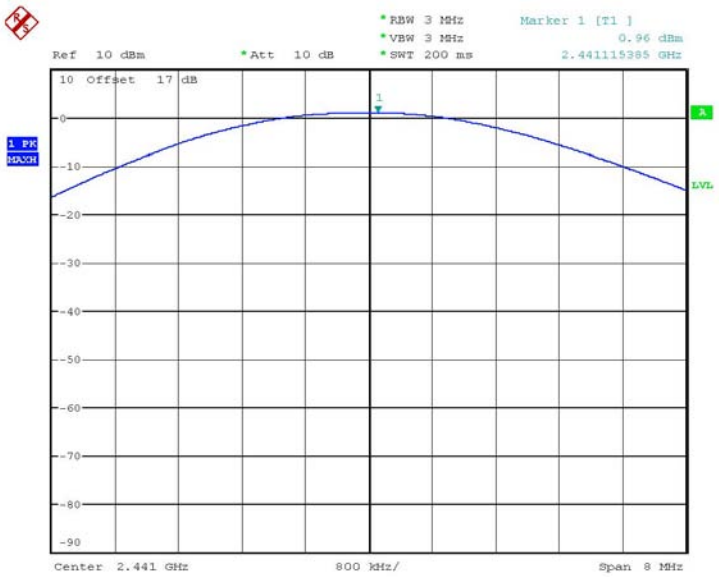


MAX OUTPUT POWER CH78
Date: 30.AUG.2010 13:53:19

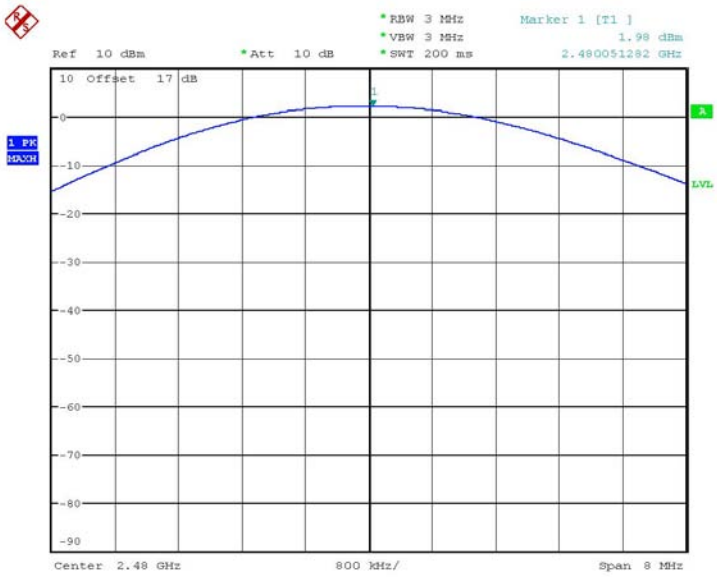
Bluetooth mode (mode F)



MAX OUTPUT POWER CH0 EDR MODE
Date: 30.AUG.2010 13:56:52



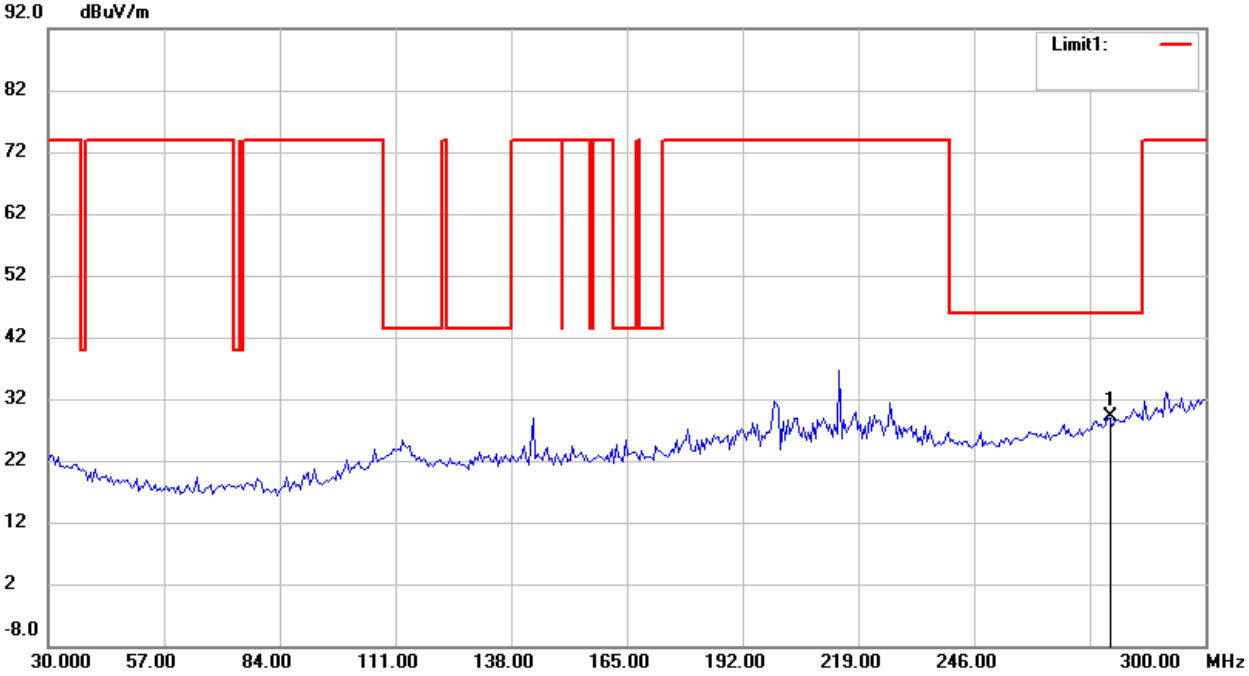
MAX OUTPUT POWER CH39 EDR MODE
Date: 30.AUG.2010 13:56:29

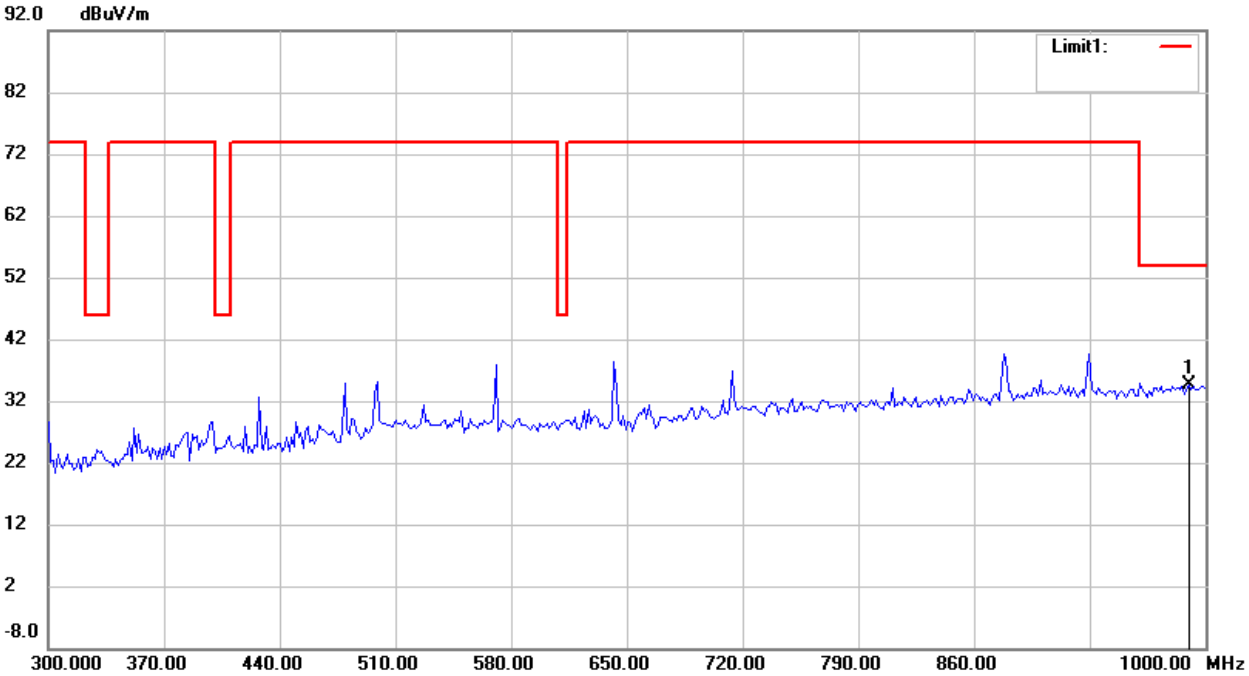


MAX OUTPUT POWER CH78 EDR MODE
Date: 30.AUG.2010 13:55:57

Registration number: W6M21008-10827-C-1
FCC ID: JCK-T1125

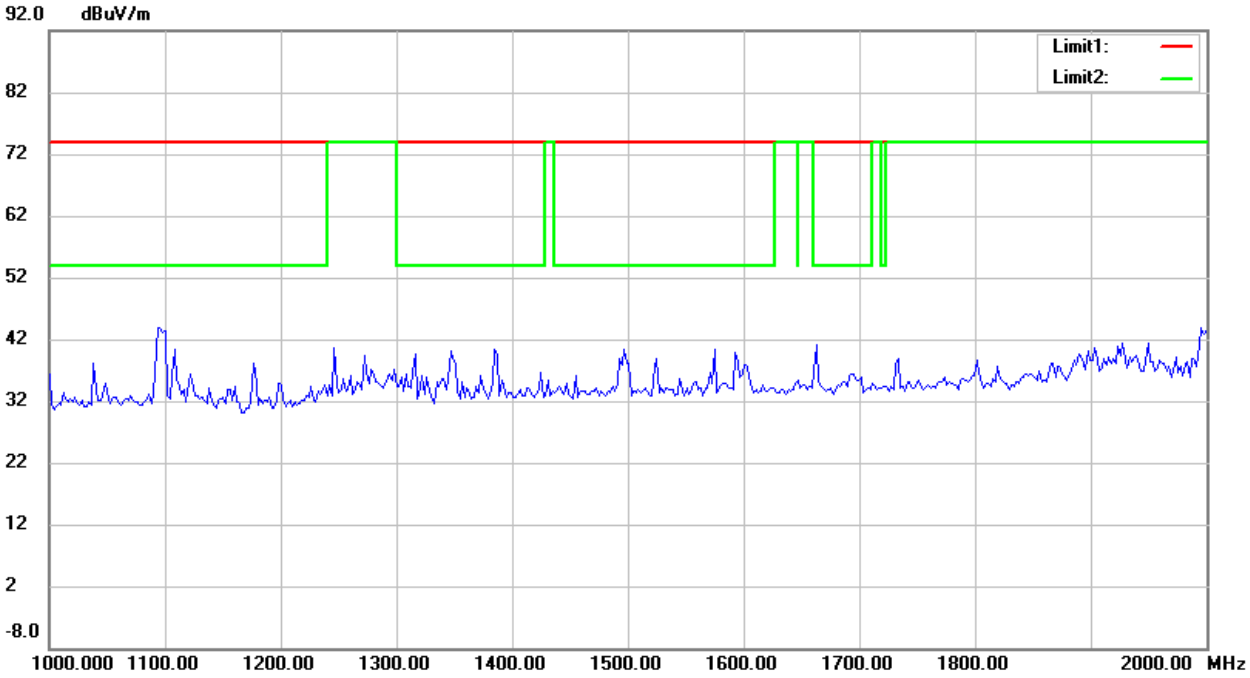
Spurious Emissions radiated
WLAN 11B-2412 MHz
Antenna Polarization H

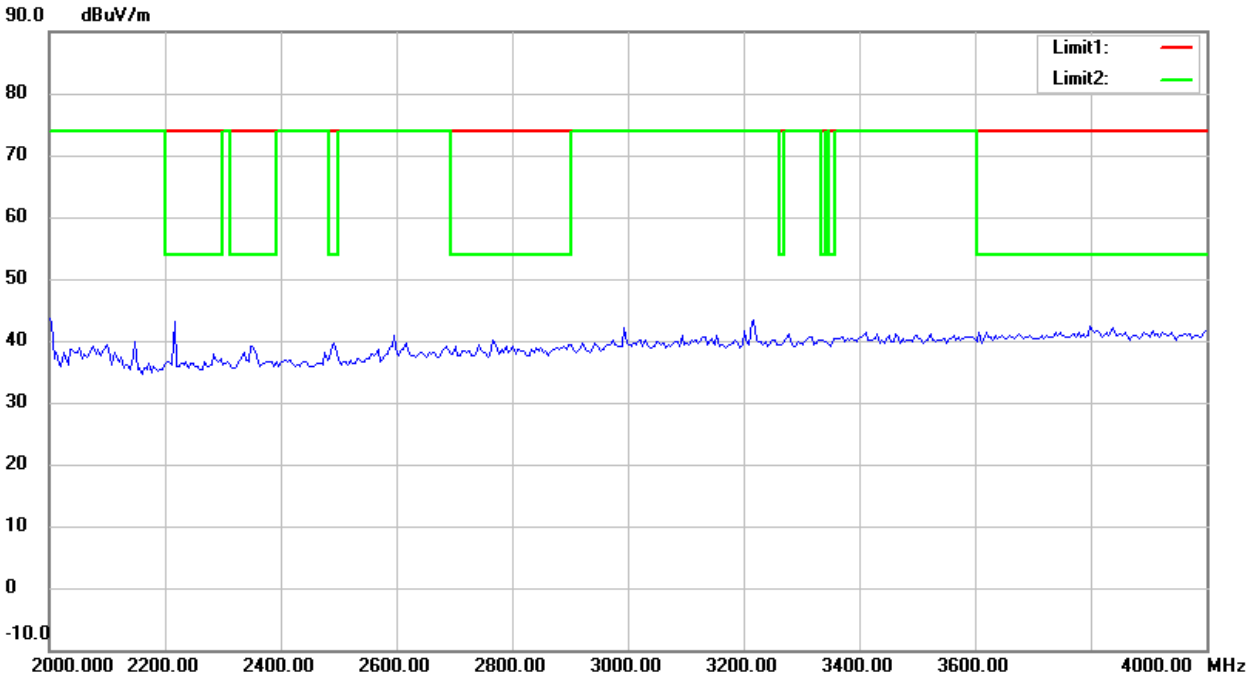




Note:
Up Line: Peak Limit Line Down Line: Ave Limit Line

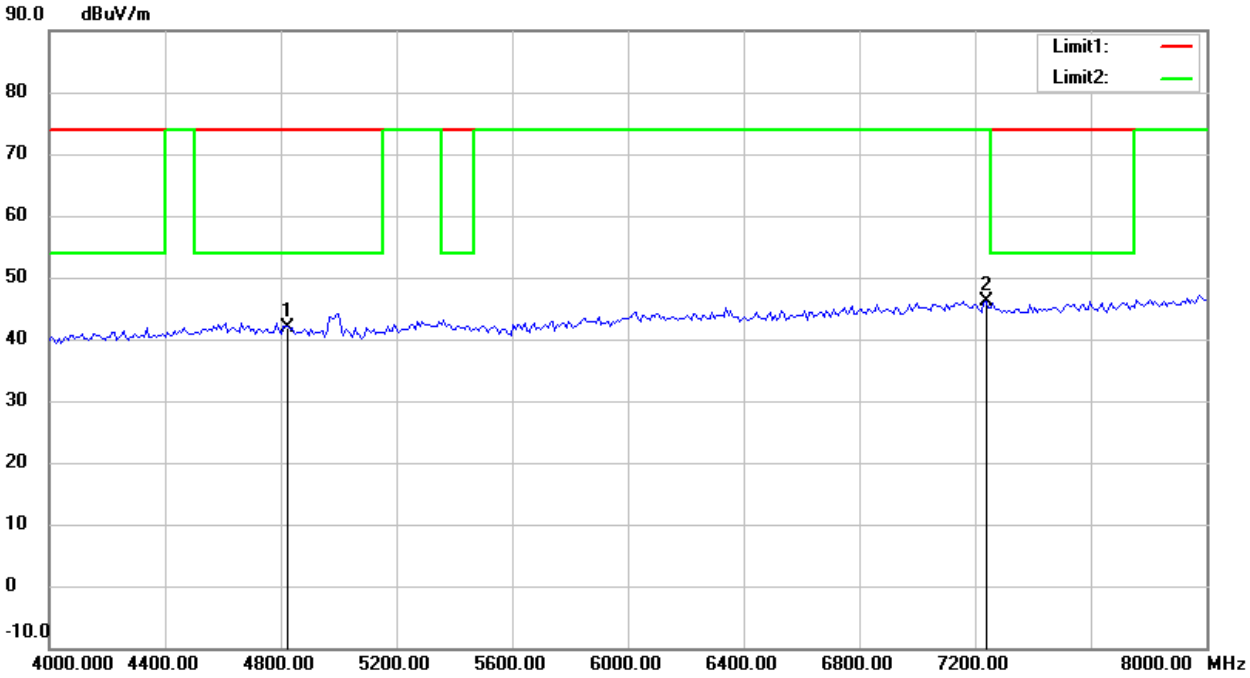
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the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

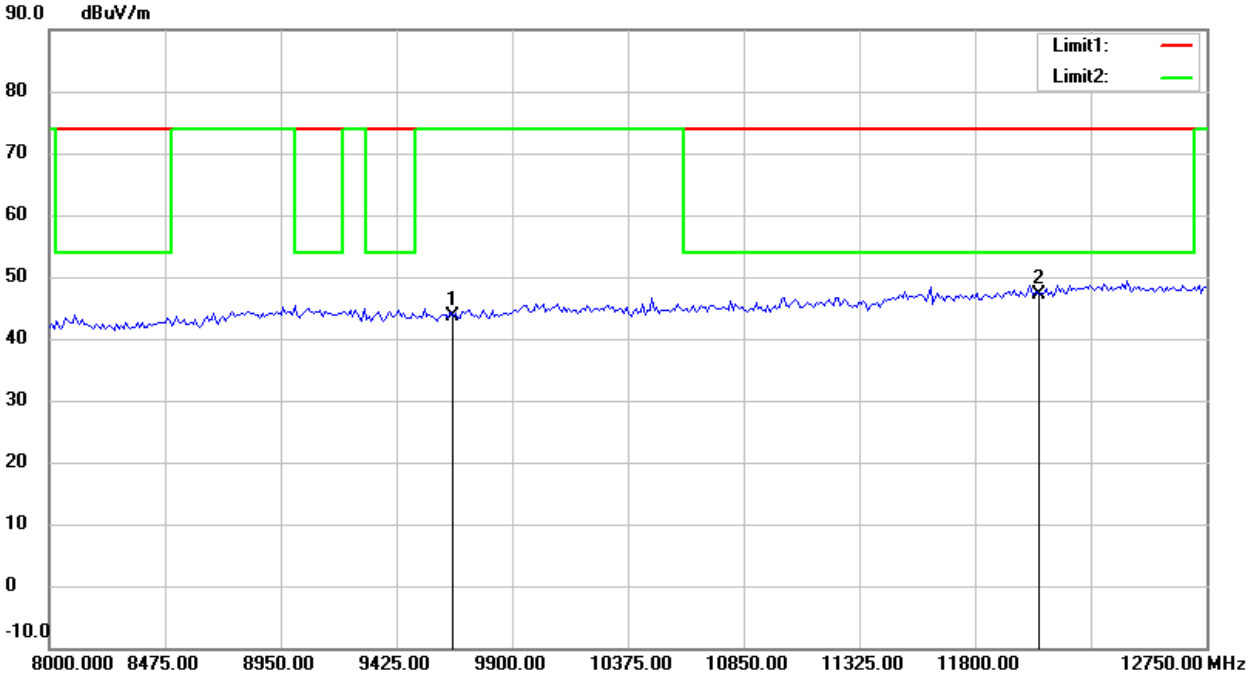




Note:
Up Line: Peak Limit Line Down Line: Ave Limit Line

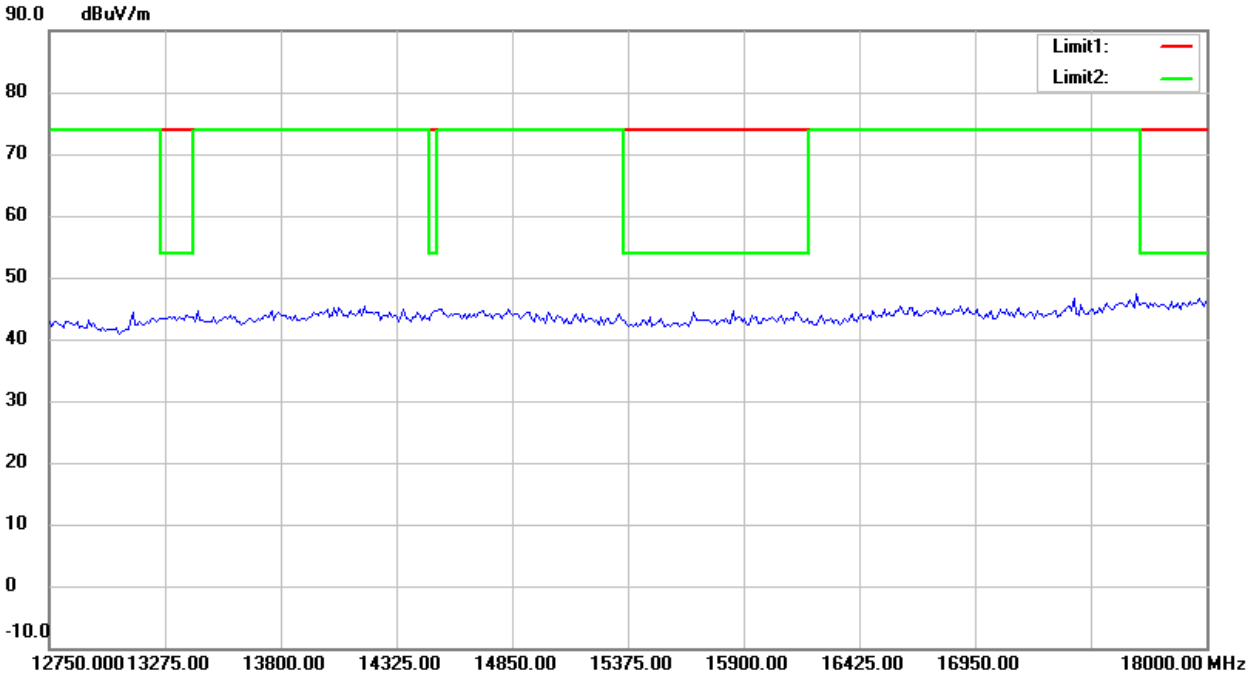
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the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

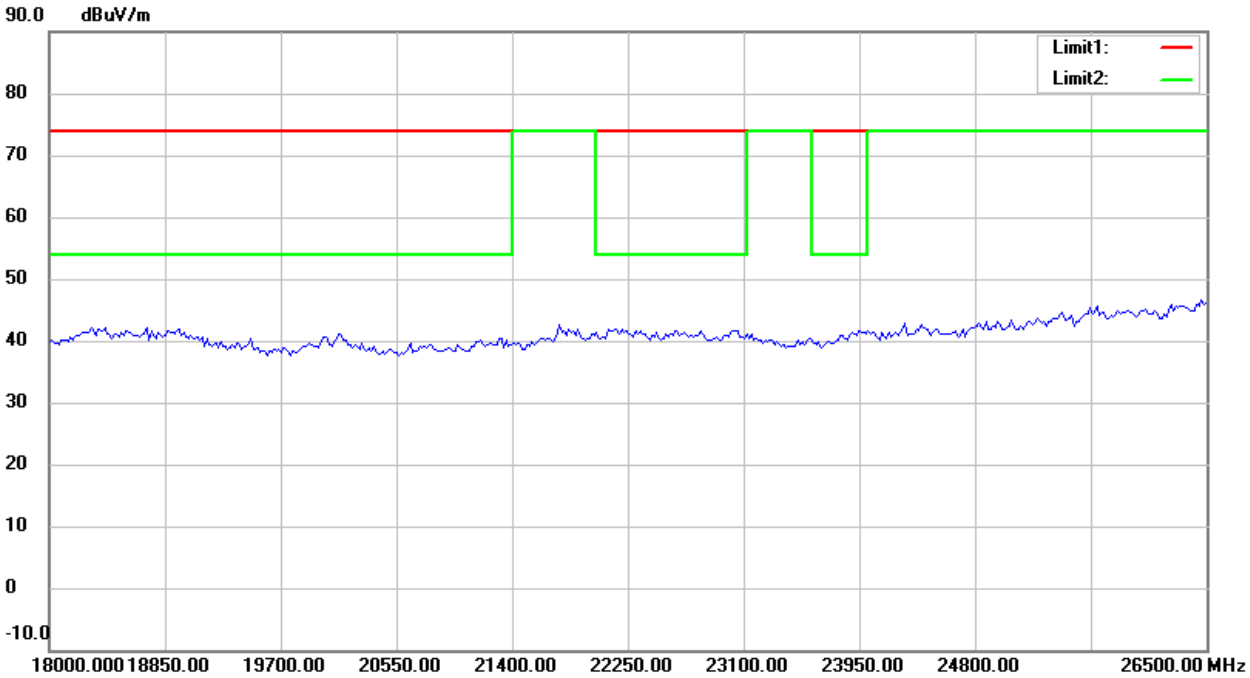




Note:
Up Line: Peak Limit Line Down Line: Ave Limit Line

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



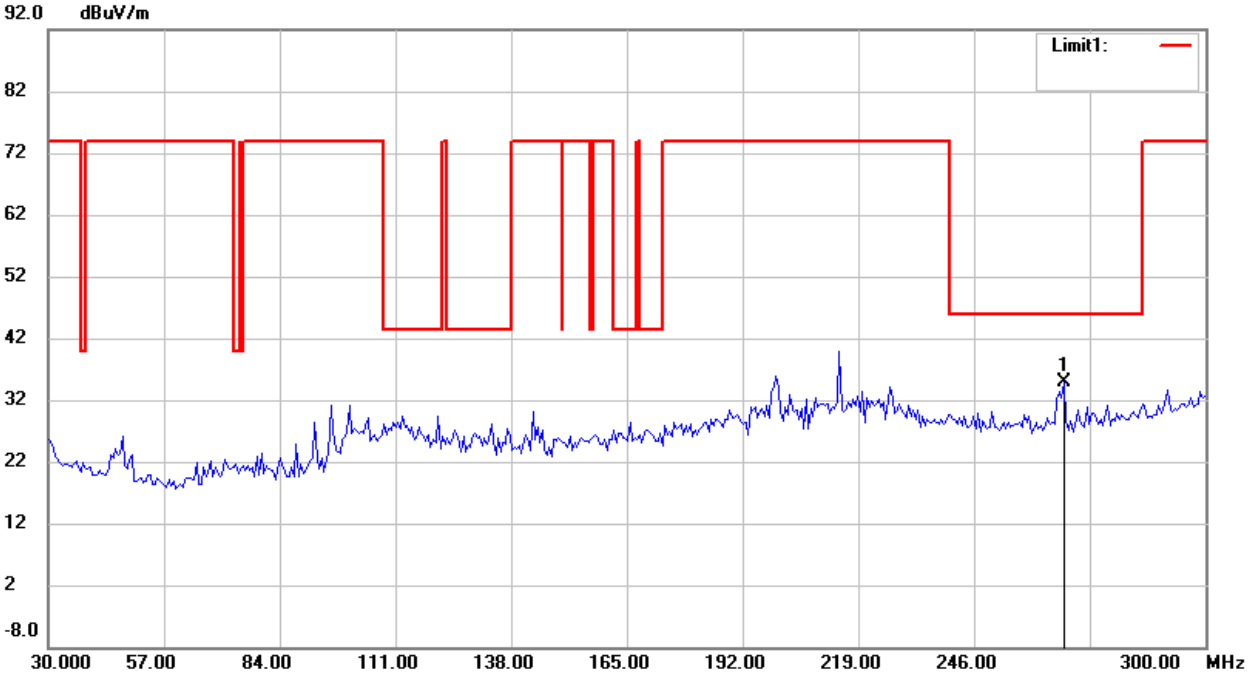


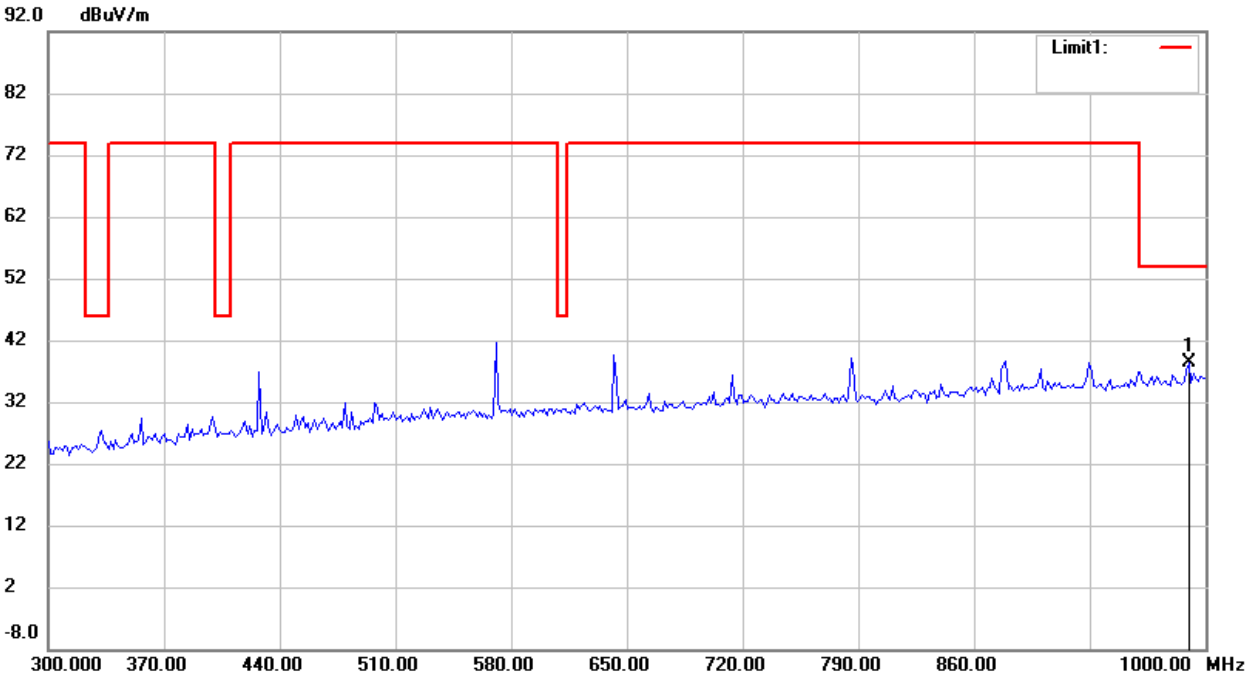
Note:
Up Line: Peak Limit Line Down Line: Ave Limit Line

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: W6M21008-10827-C-1
FCC ID: JCK-T1125

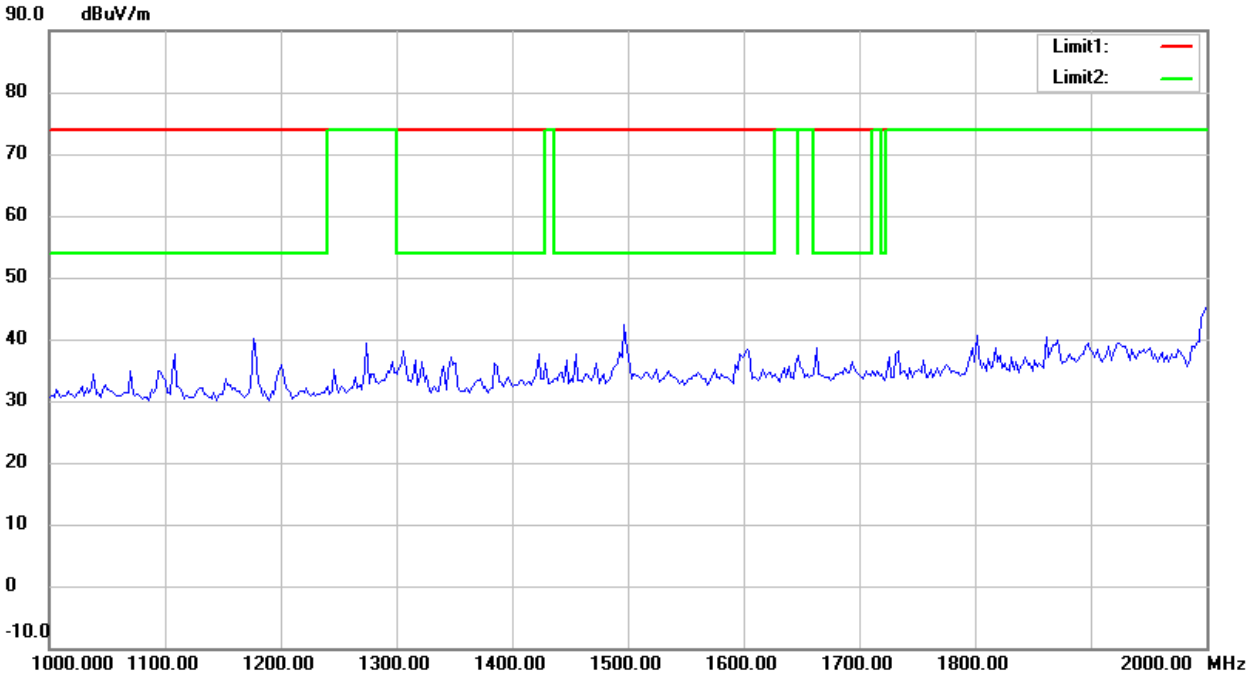
Antenna Polarization V

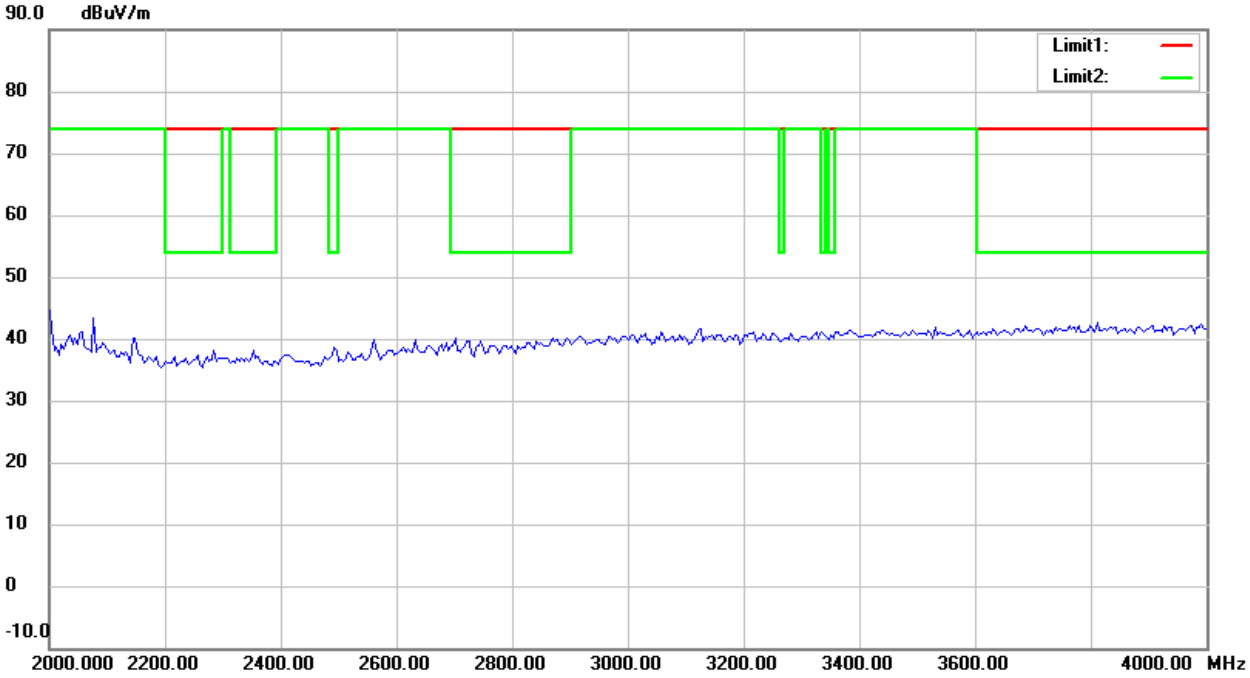




Note:
Up Line: Peak Limit Line Down Line: Ave Limit Line

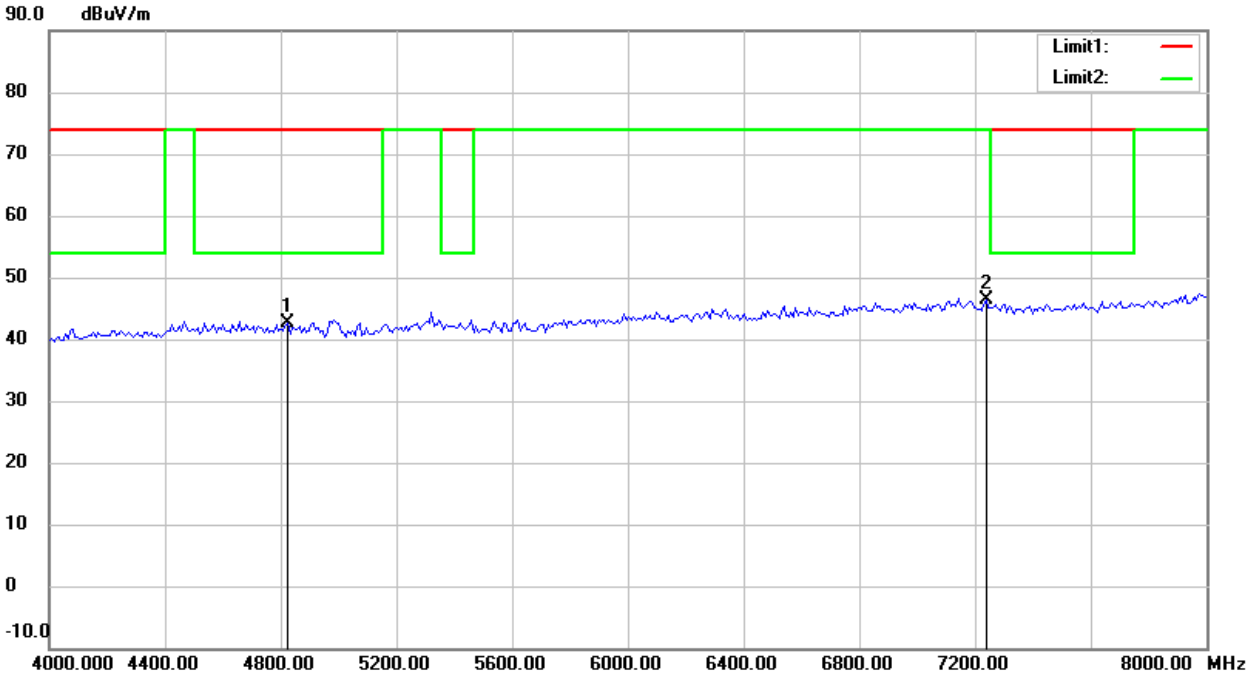
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the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

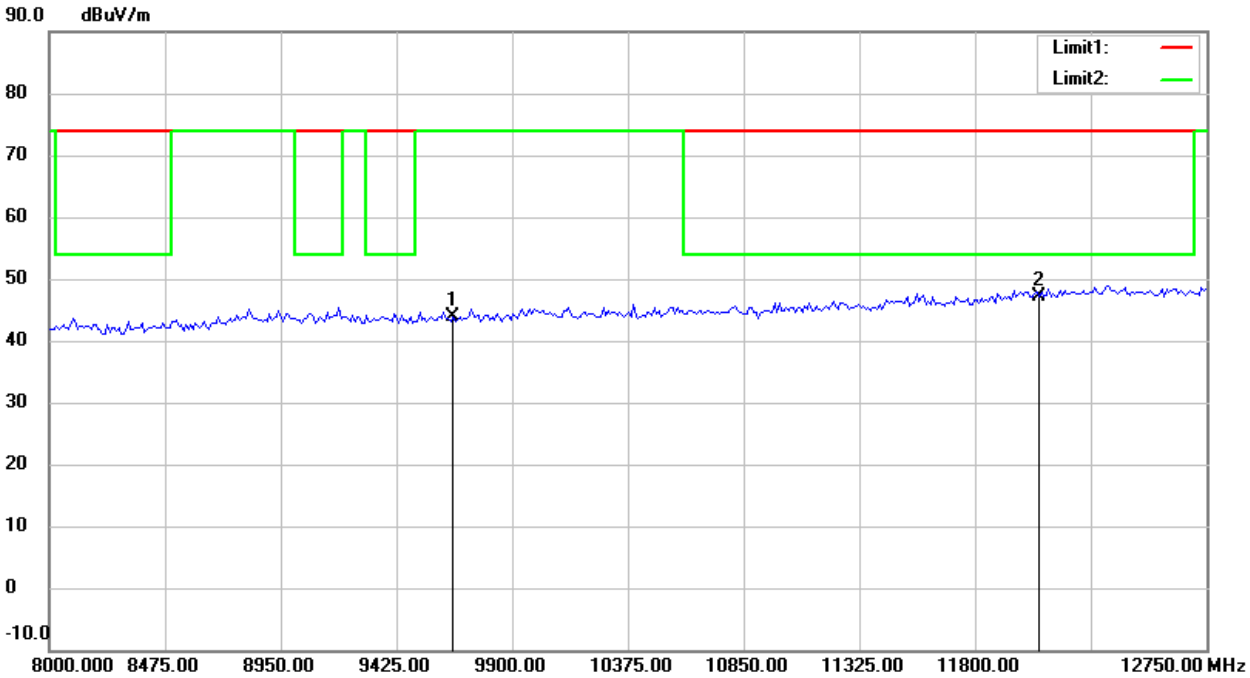




Note:
Up Line: Peak Limit Line Down Line: Ave Limit Line

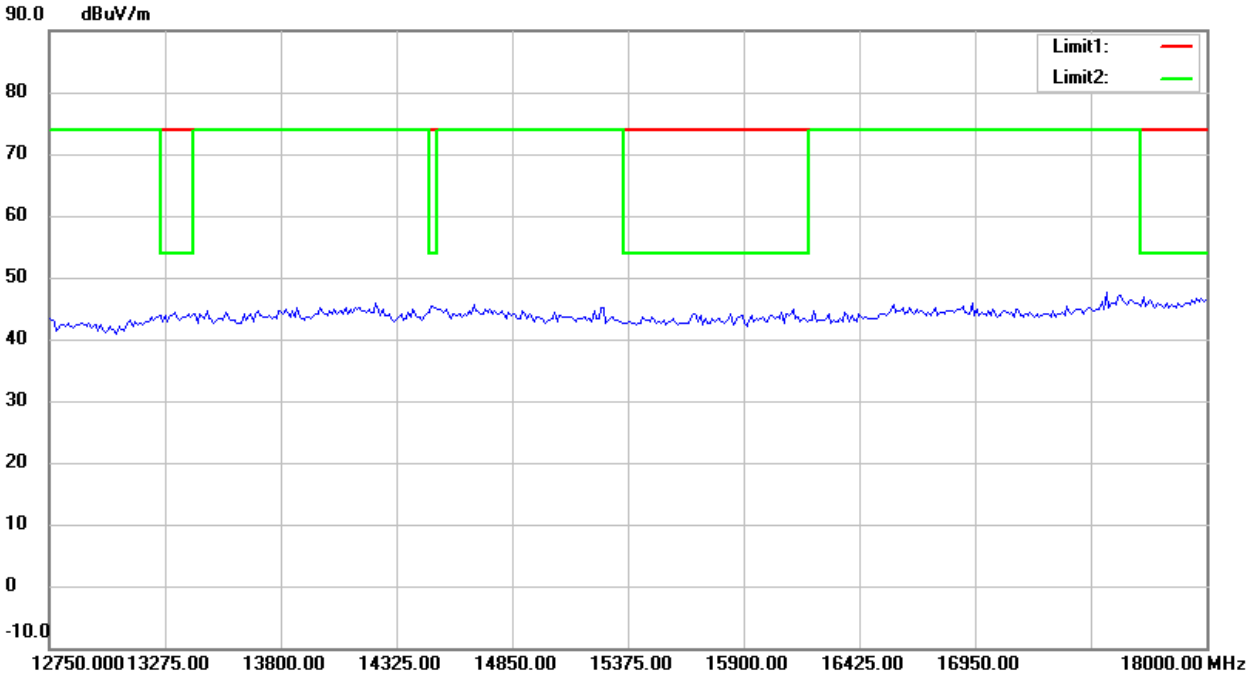
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the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

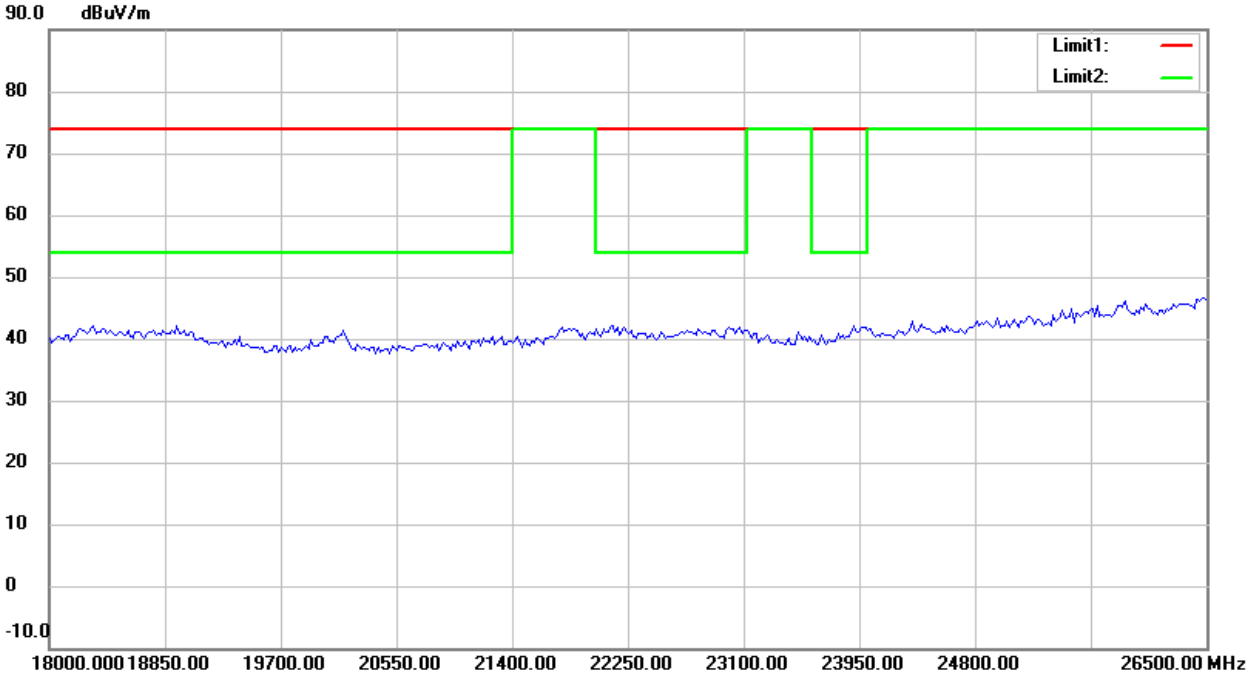




Note:
Up Line: Peak Limit Line Down Line: Ave Limit Line

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



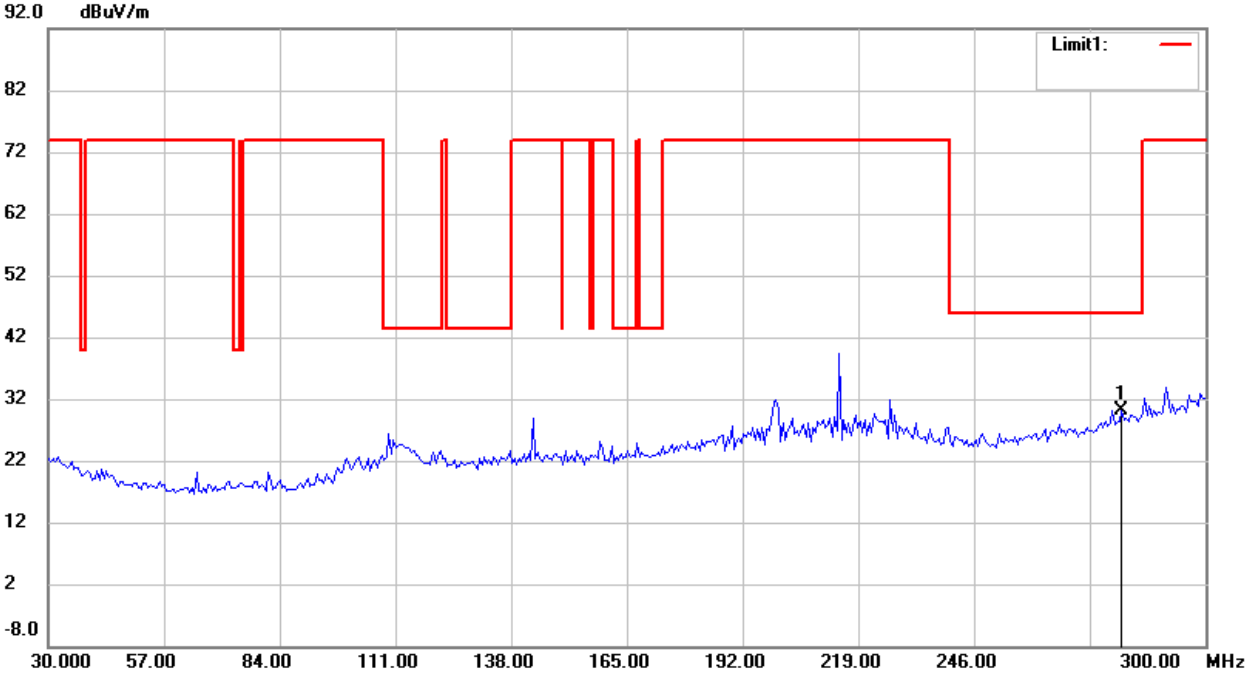


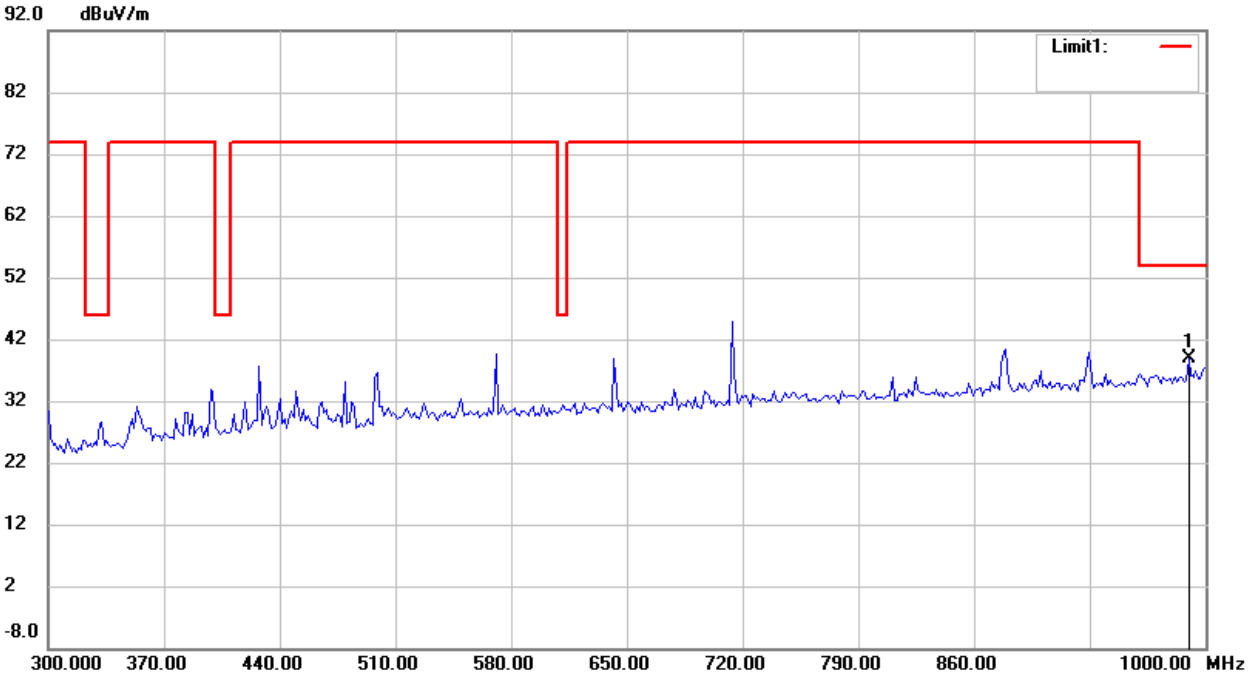
Note:
Up Line: Peak Limit Line Down Line: Ave Limit Line

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: W6M21008-10827-C-1
FCC ID: JCK-T1125

WLAN 11B-2437 MHz
Antenna Polarization H





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

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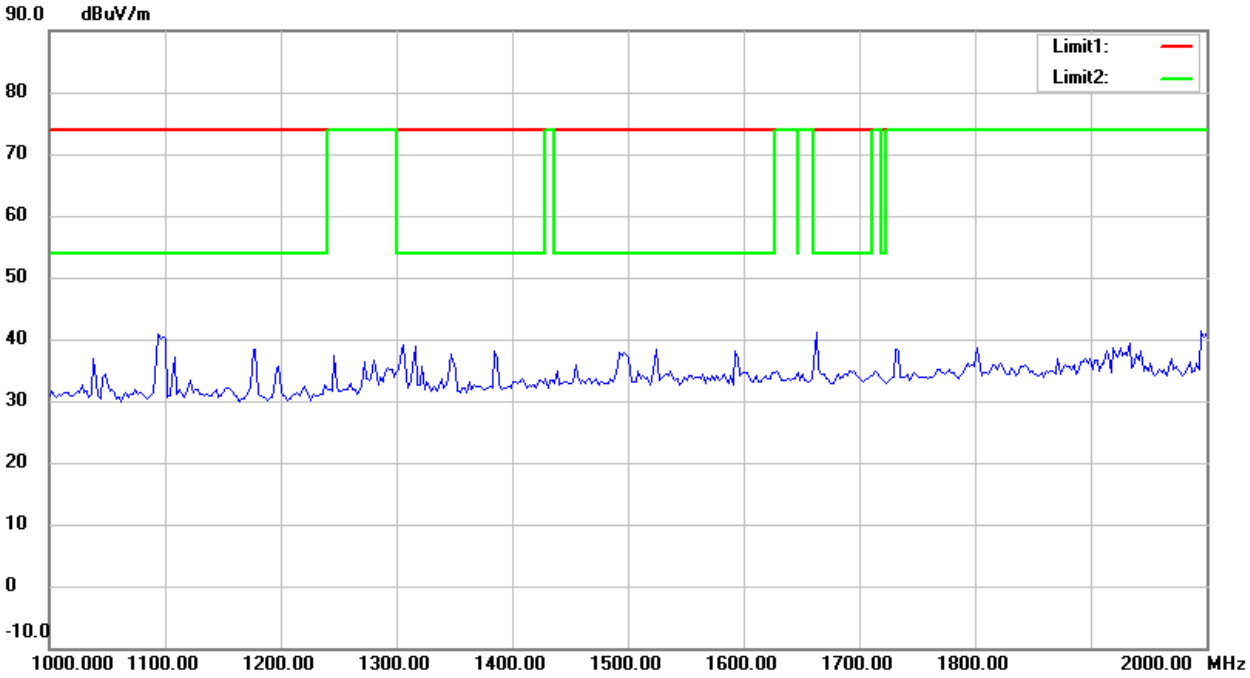
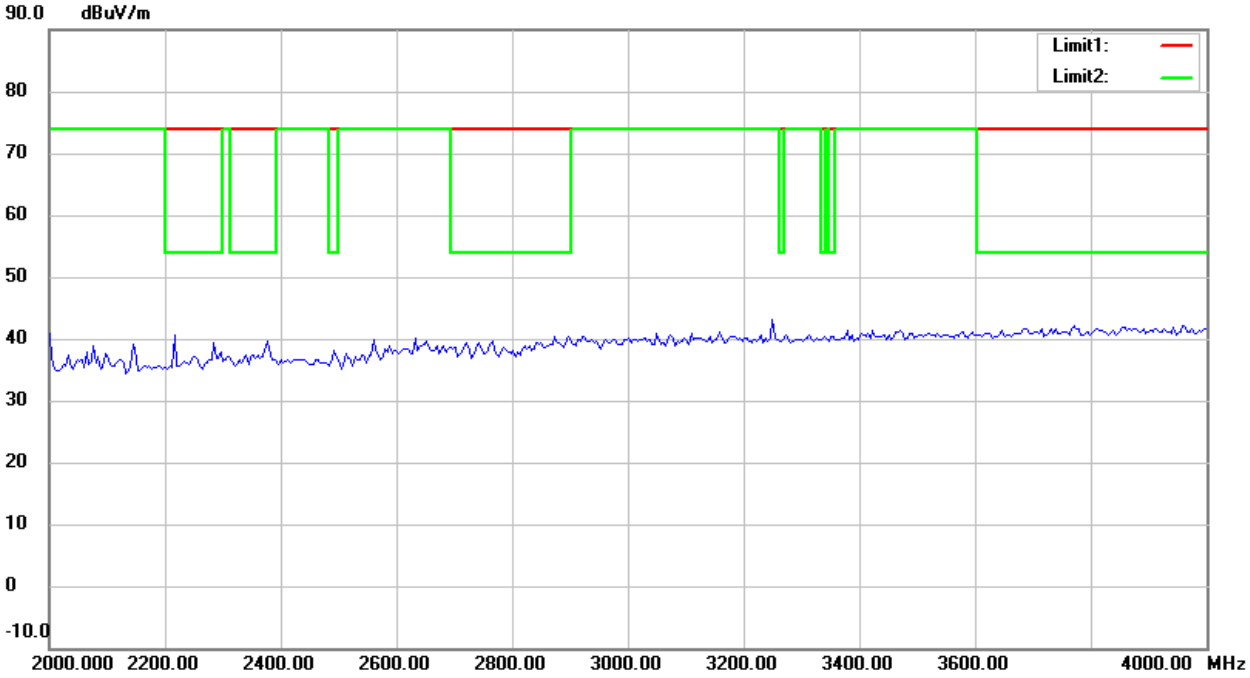
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**





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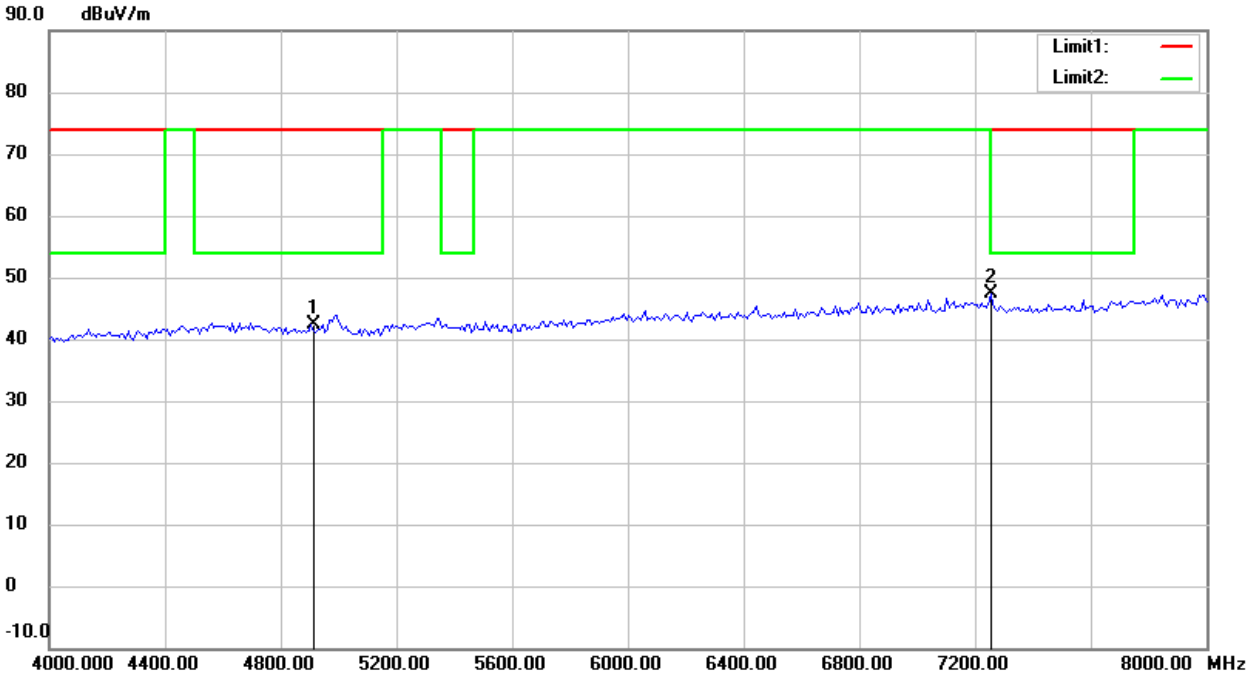

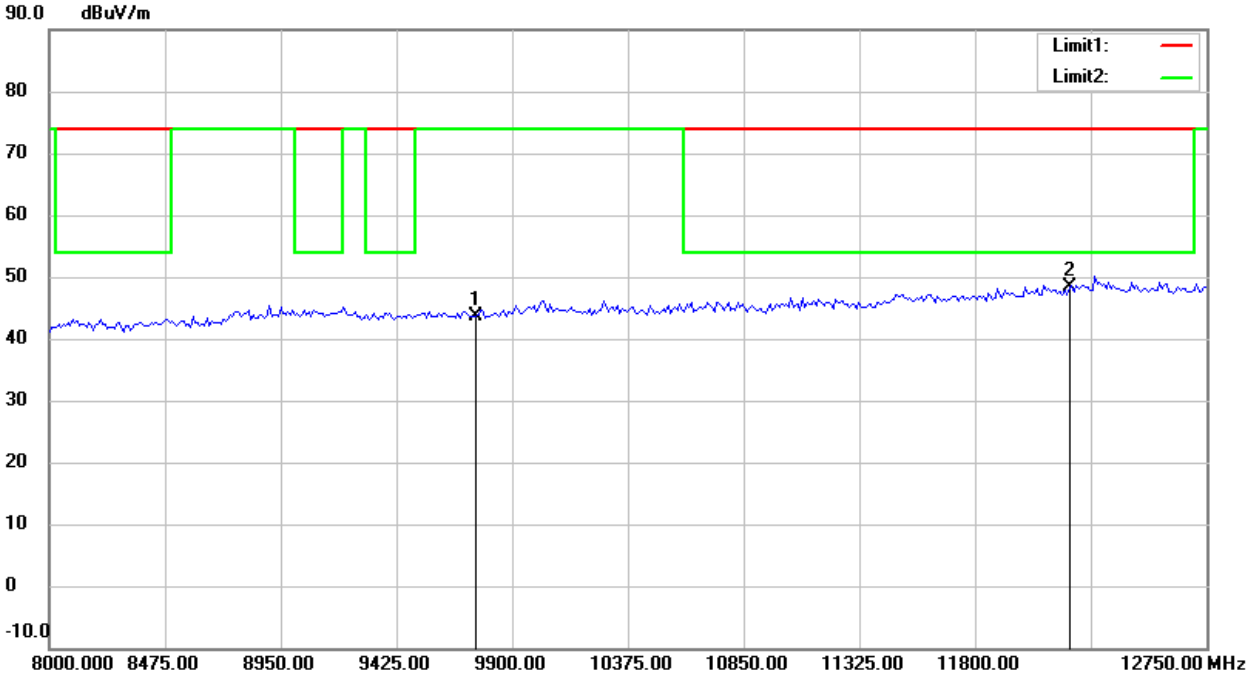

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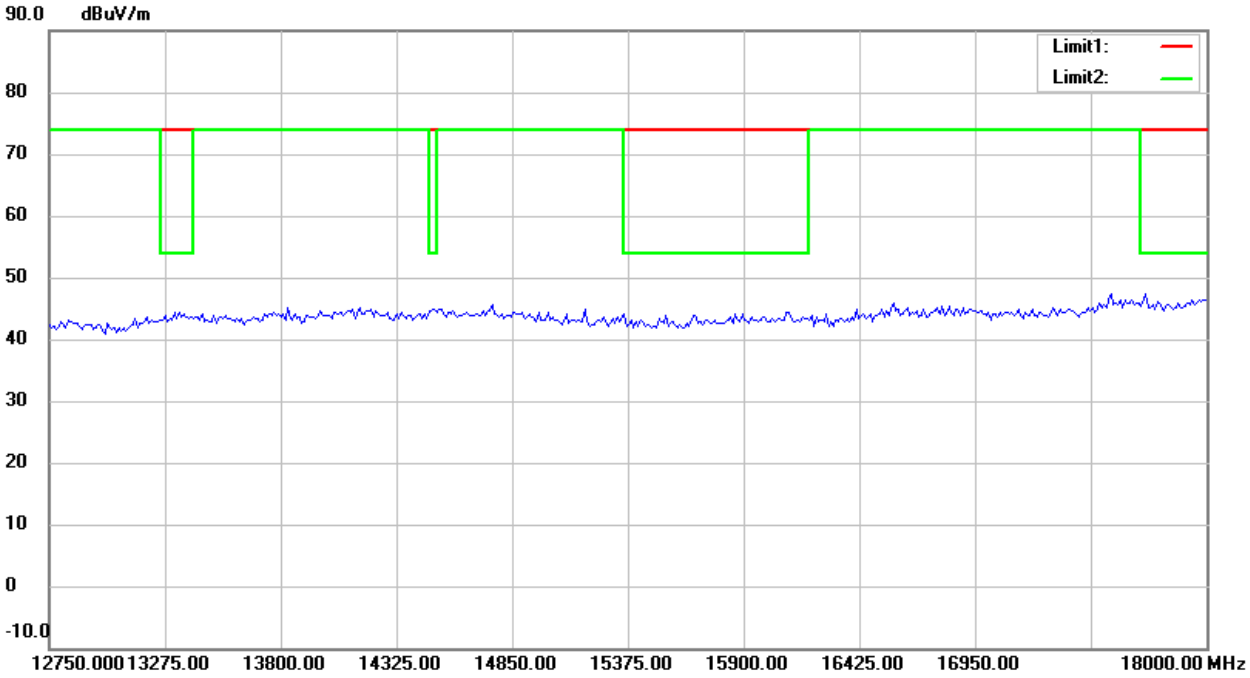

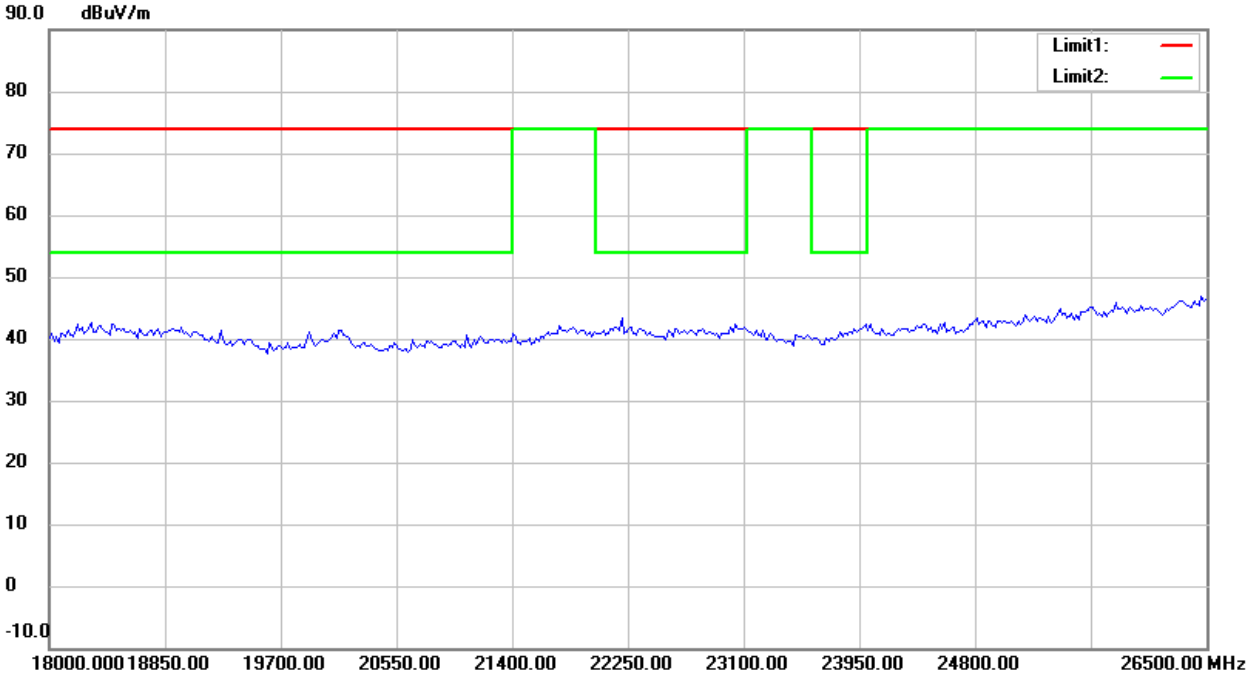

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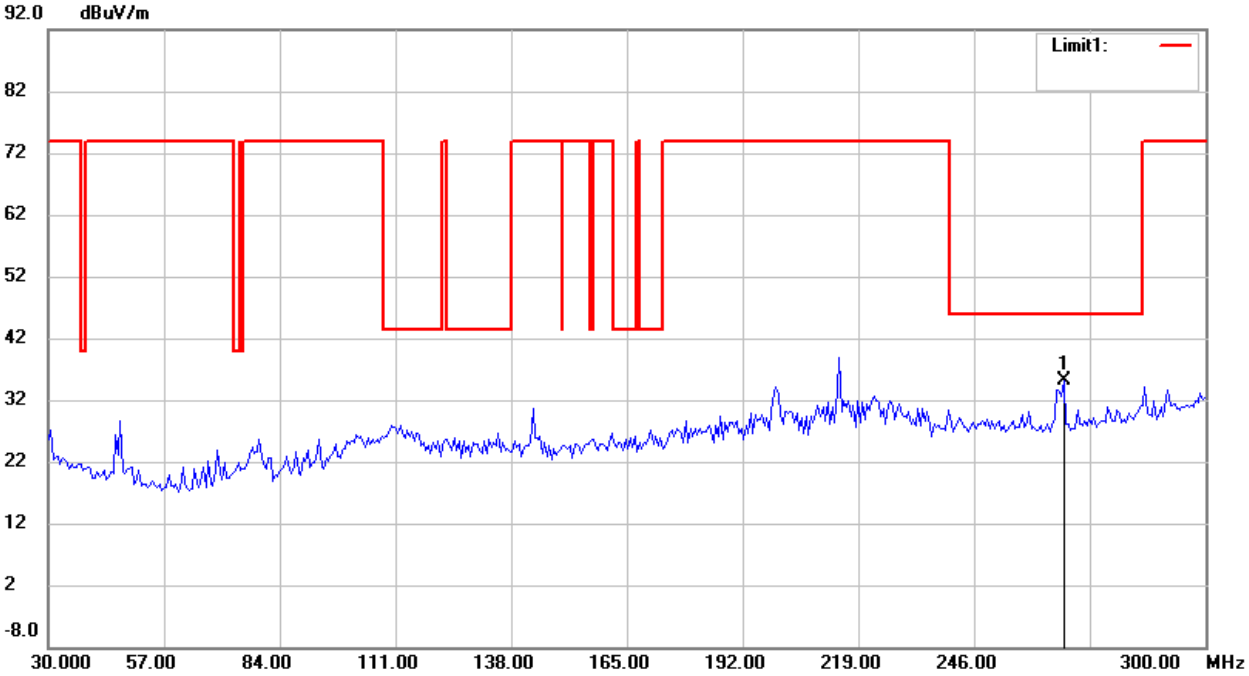
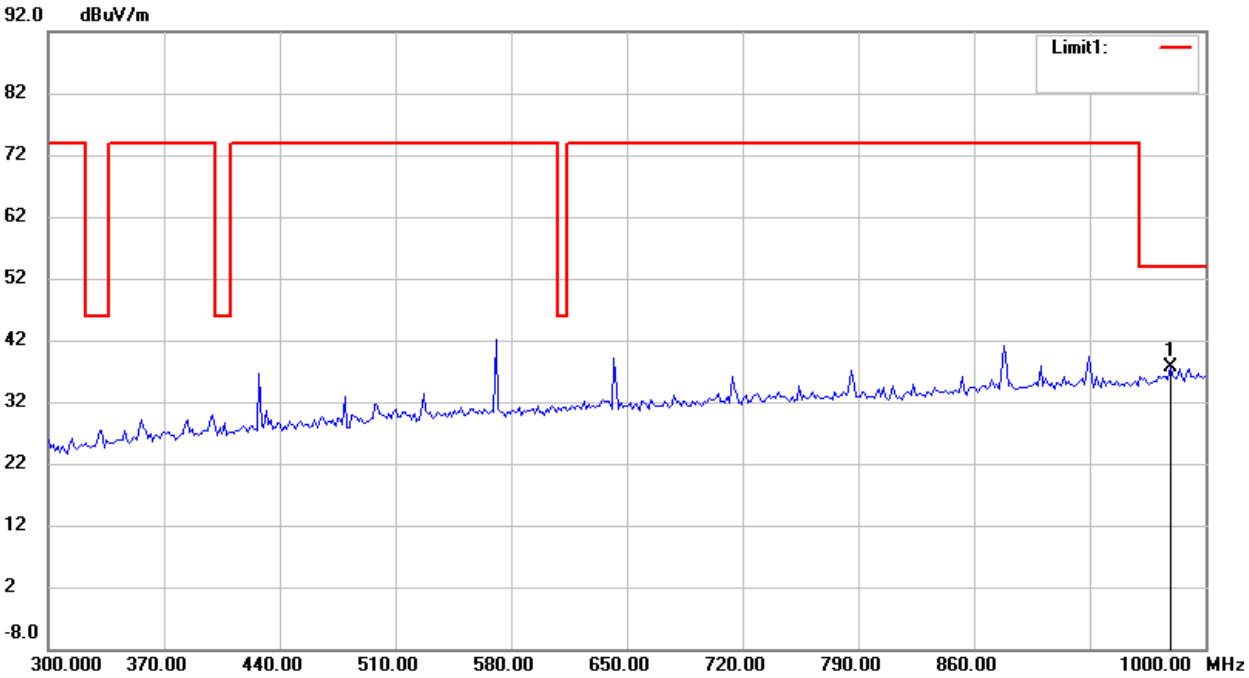
Registration number: W6M21008-10827-C-1
FCC ID: JCK-T1125

Antenna Polarization V





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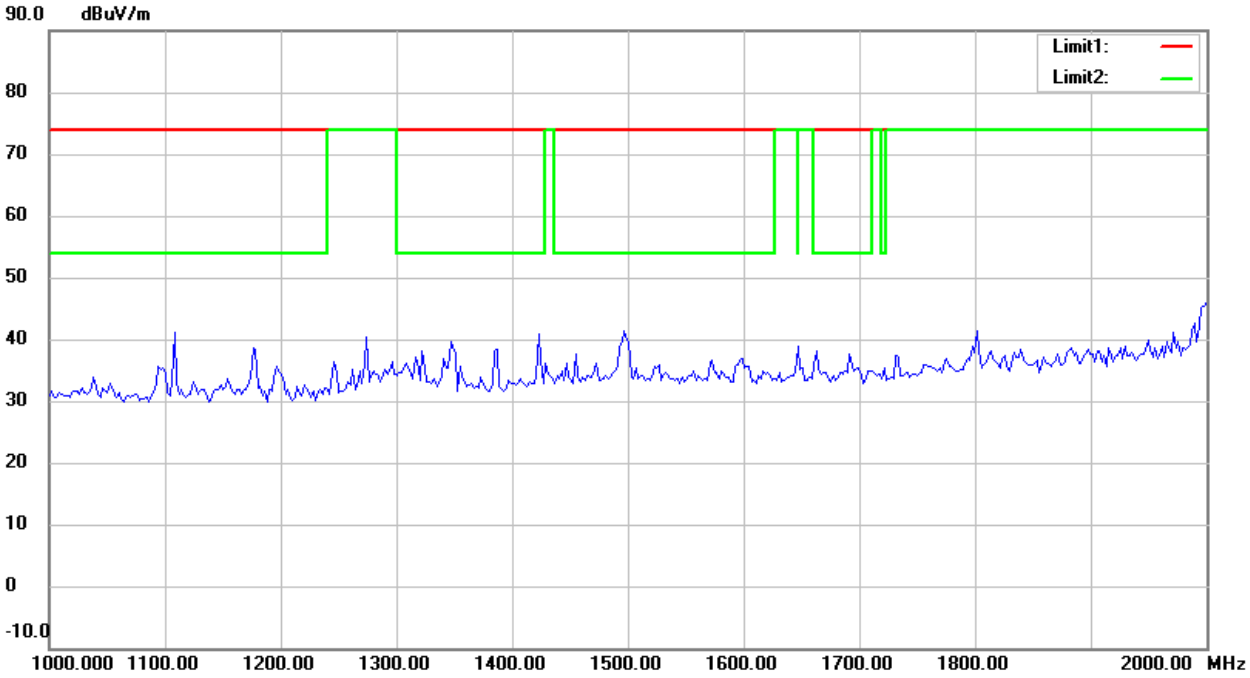

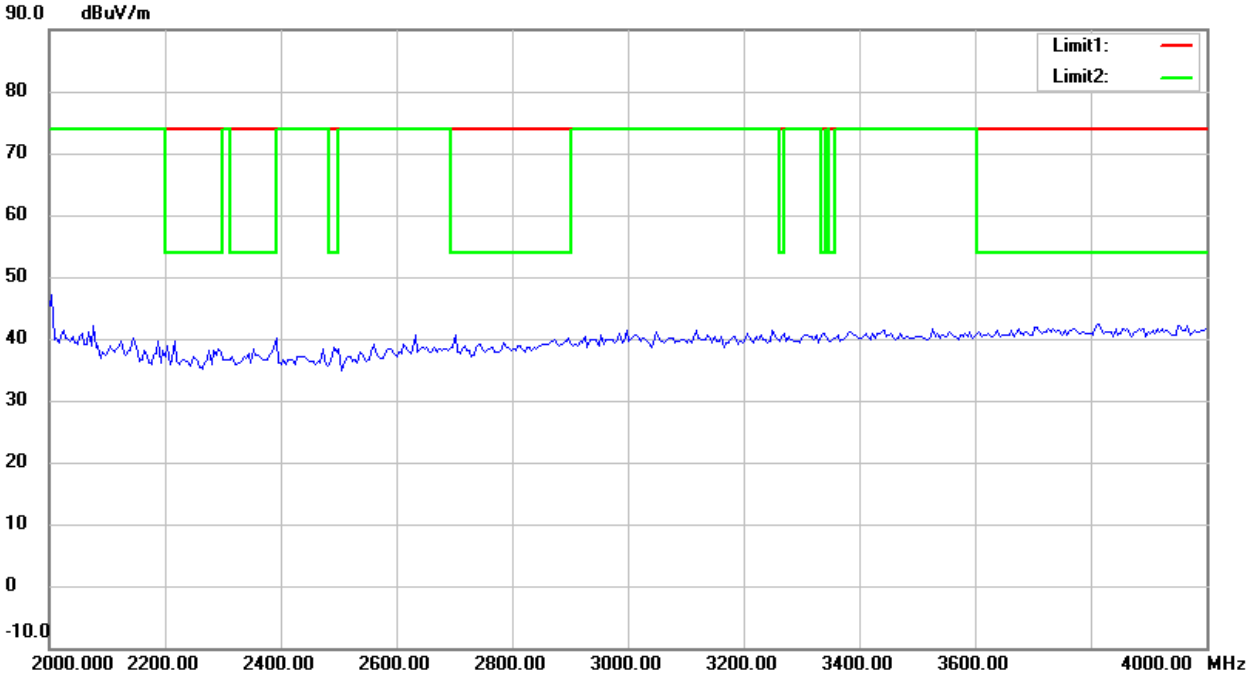

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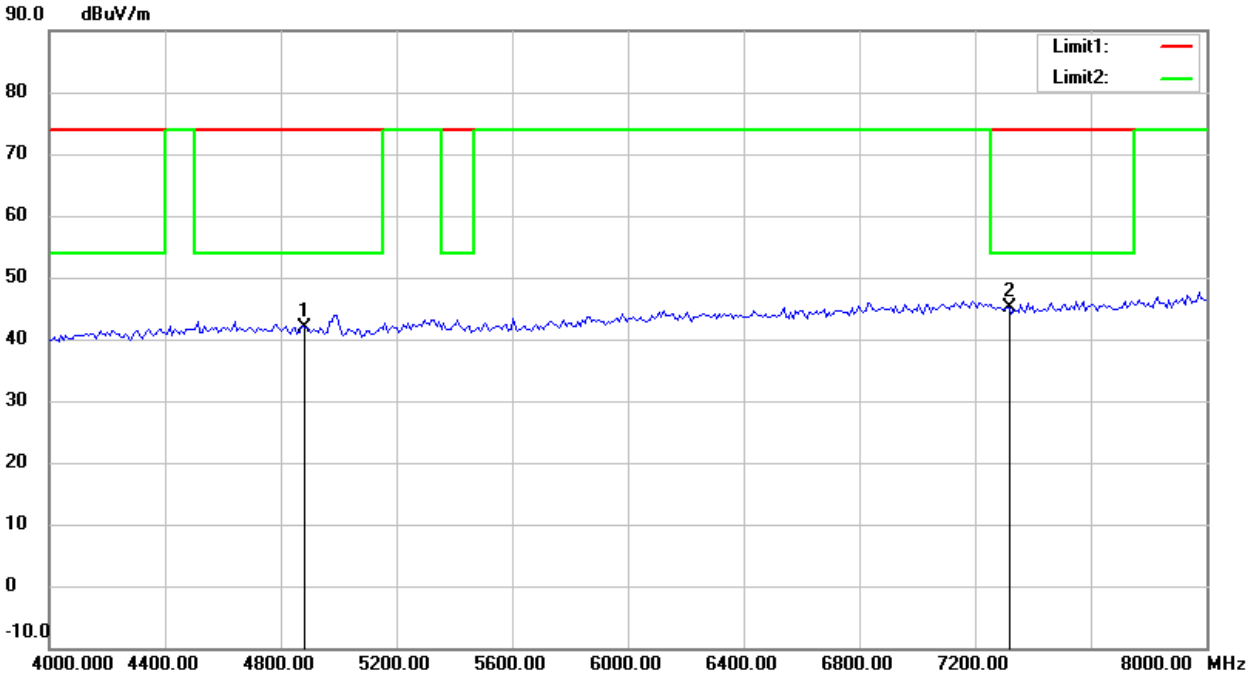

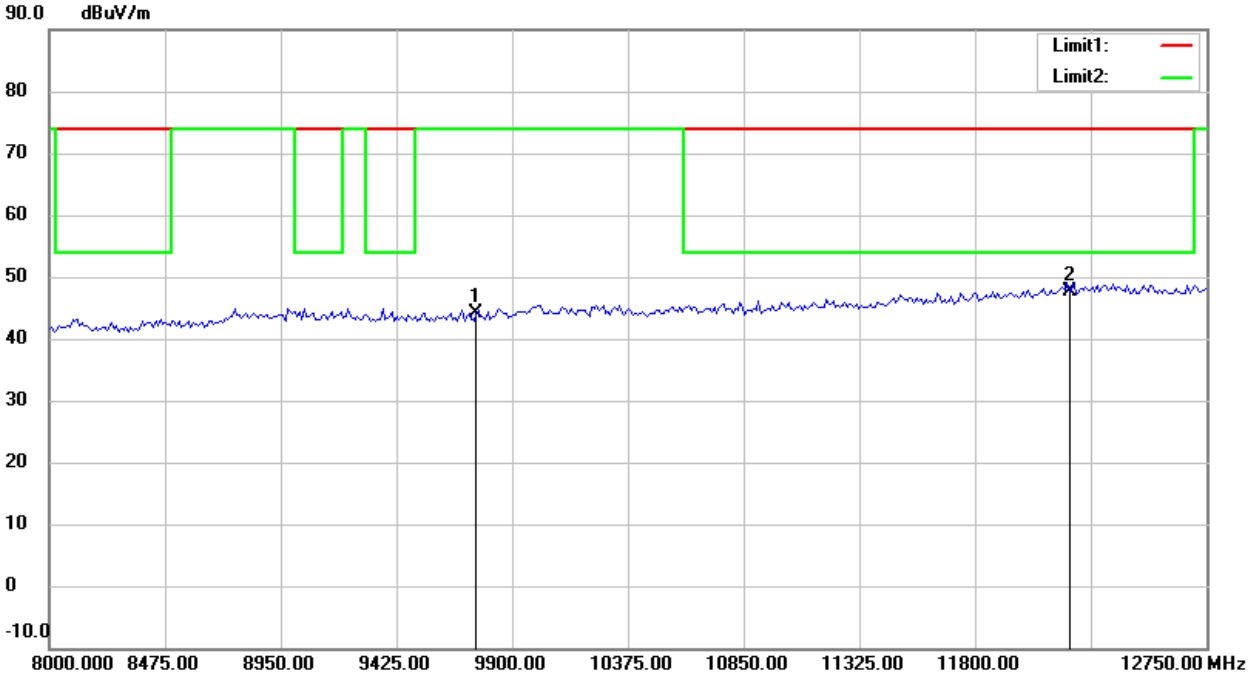

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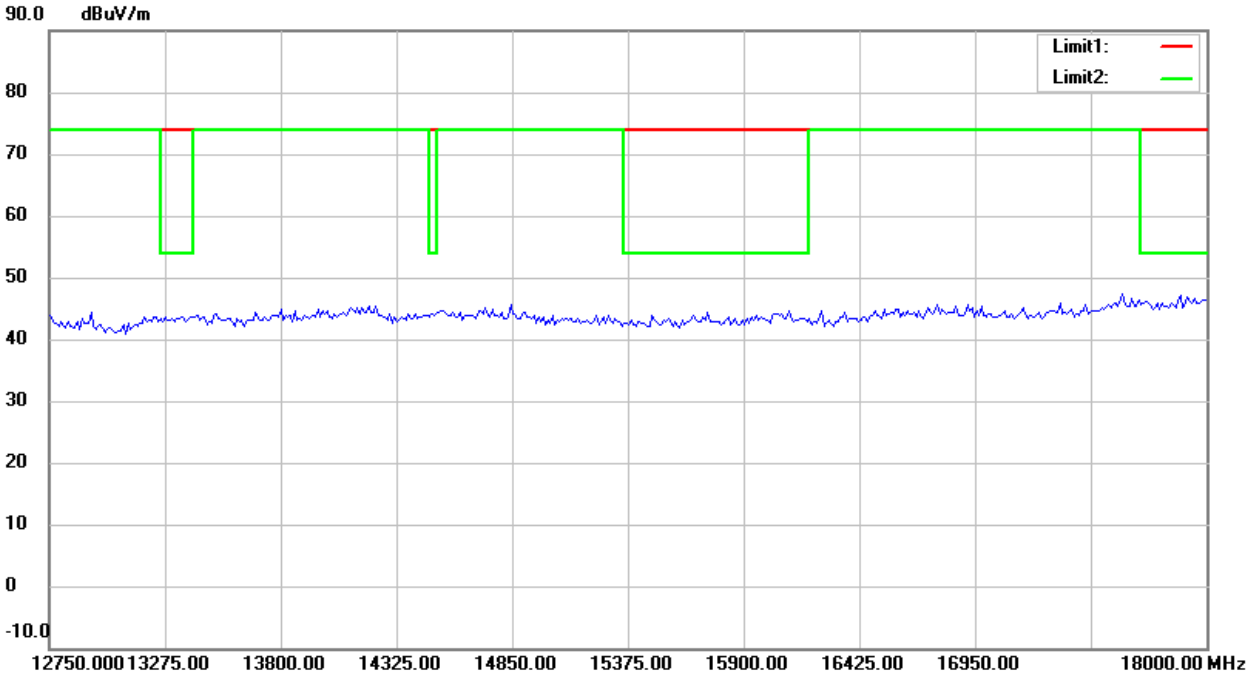

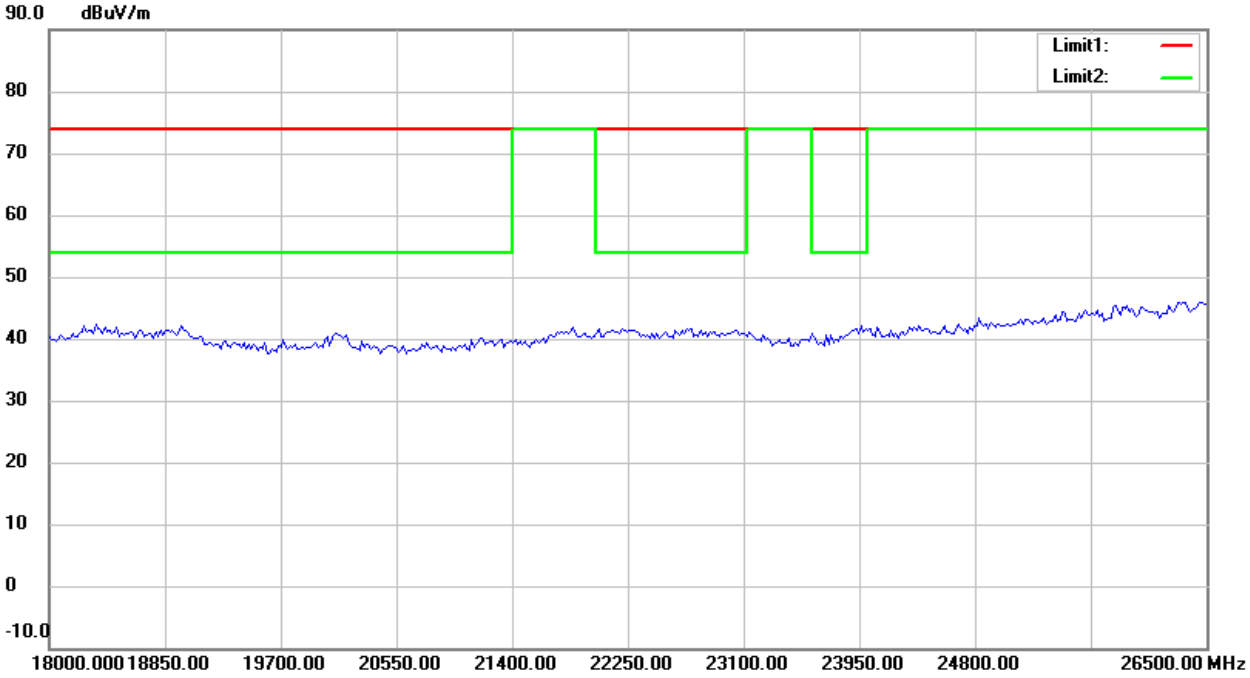

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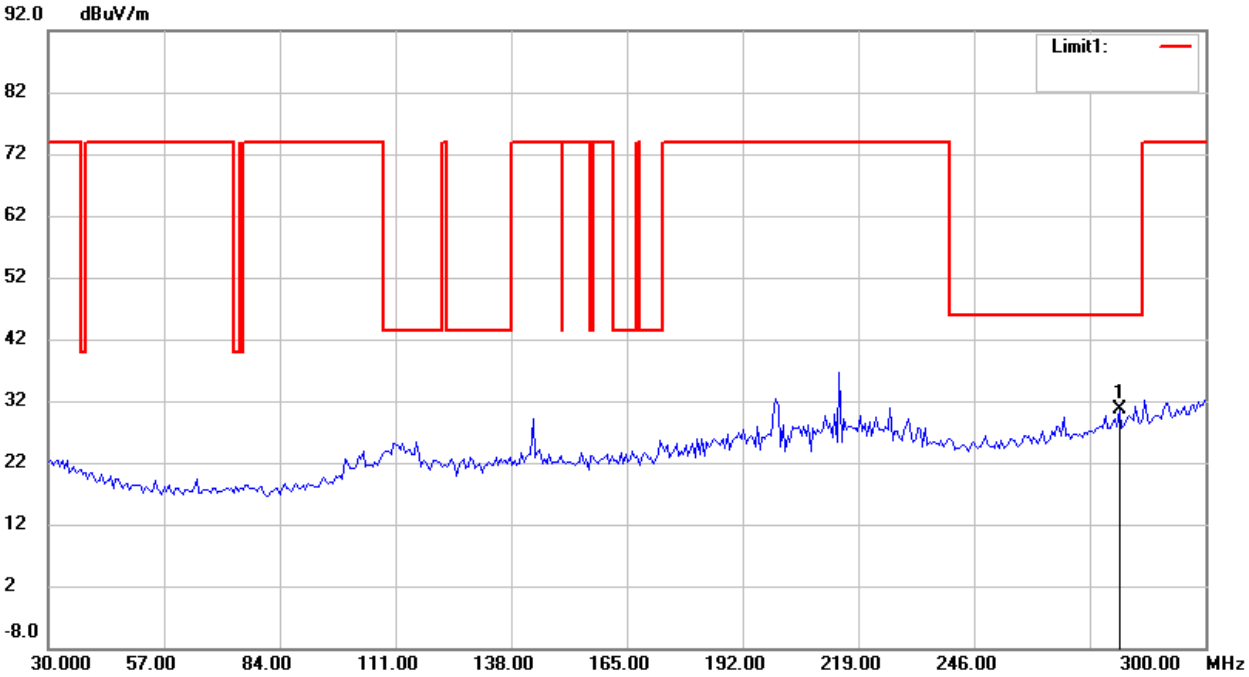
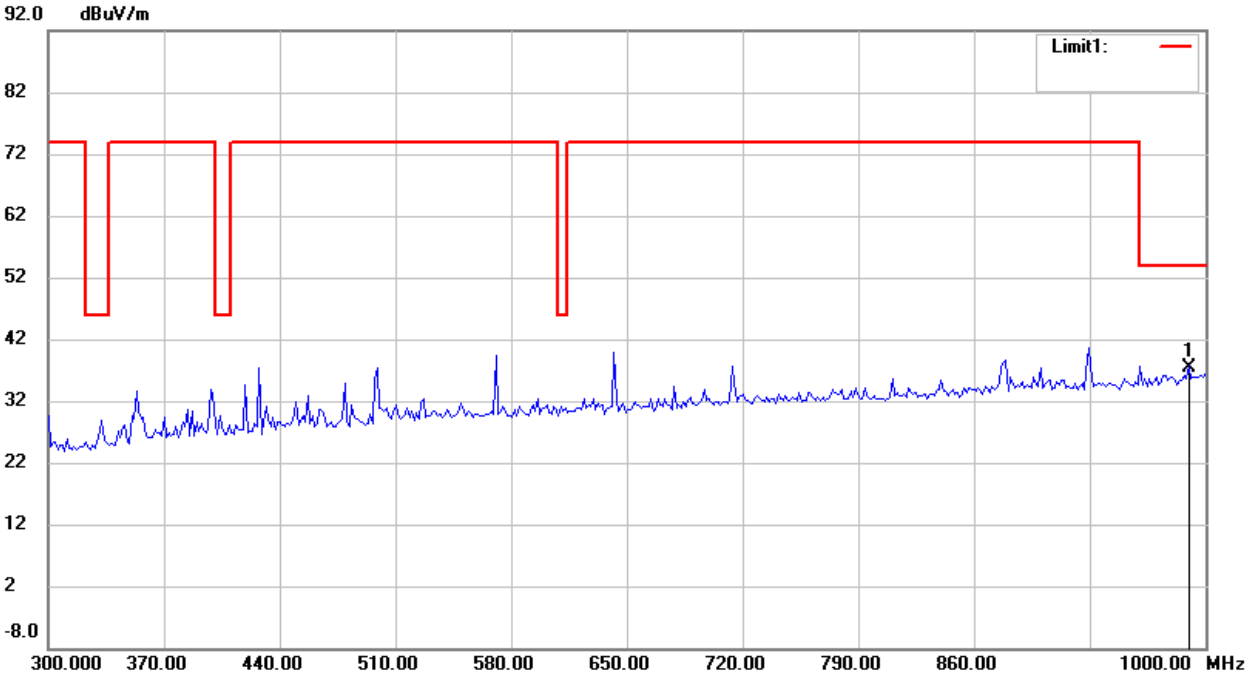
Registration number: W6M21008-10827-C-1
FCC ID: JCK-T1125

WLAN 11B-2462 MHz
Antenna Polarization H





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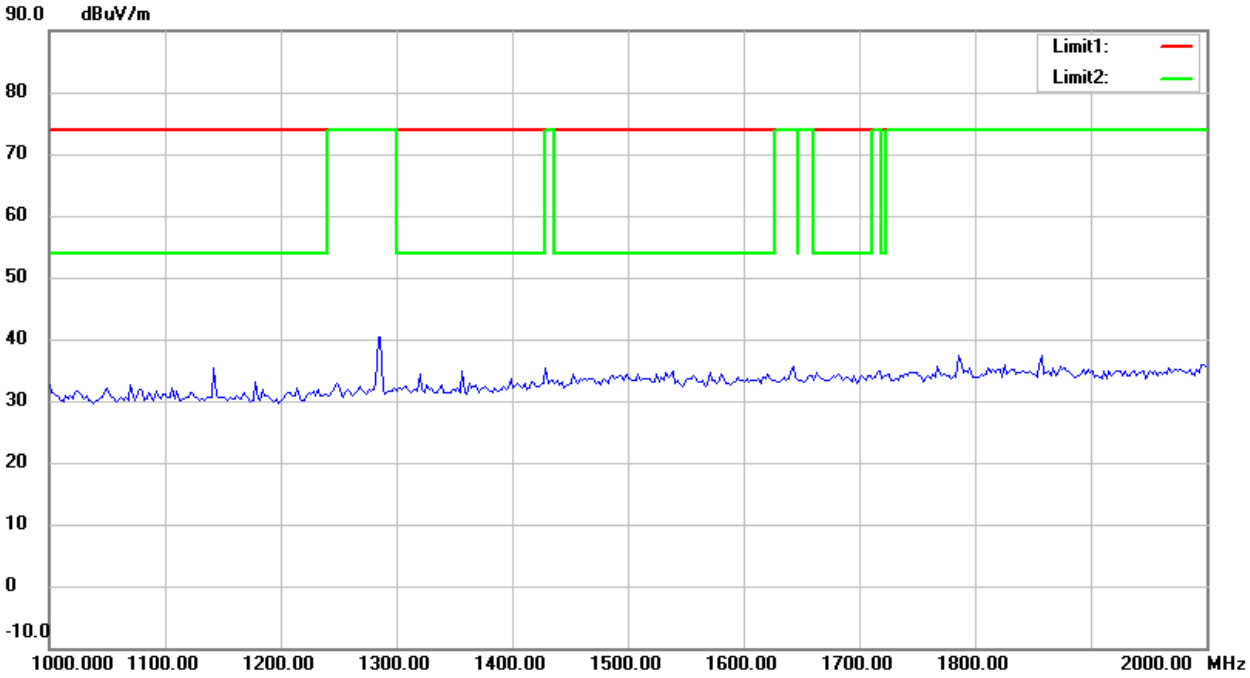

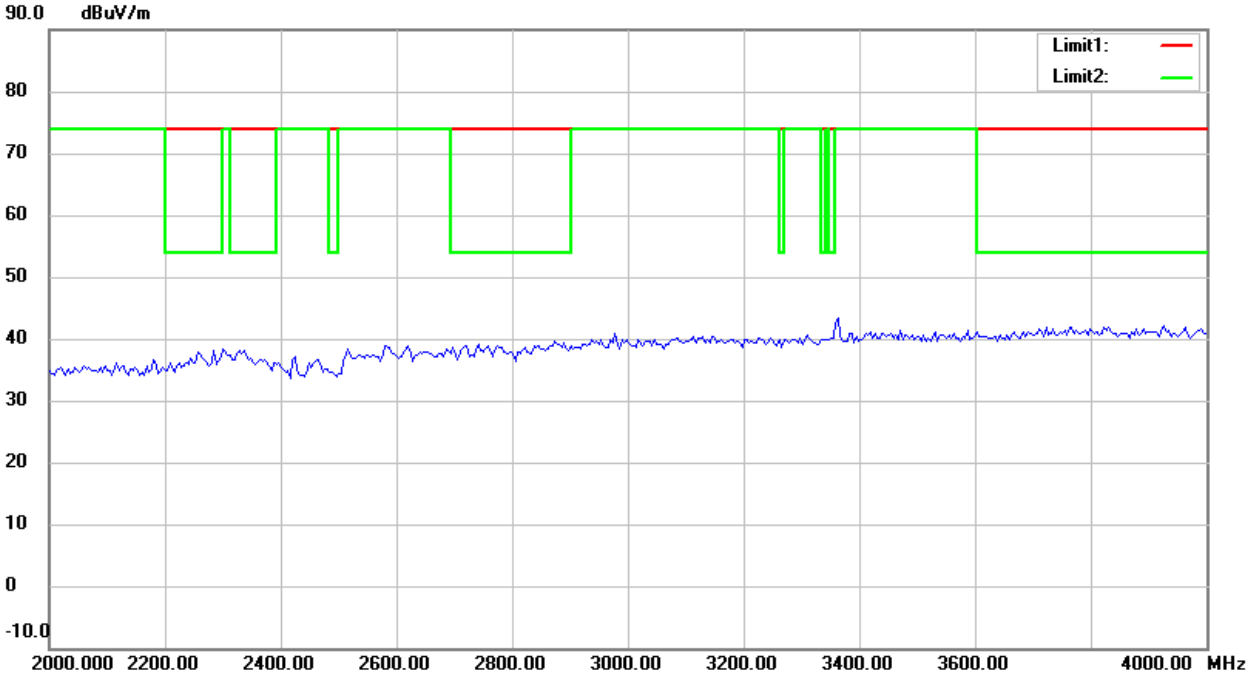

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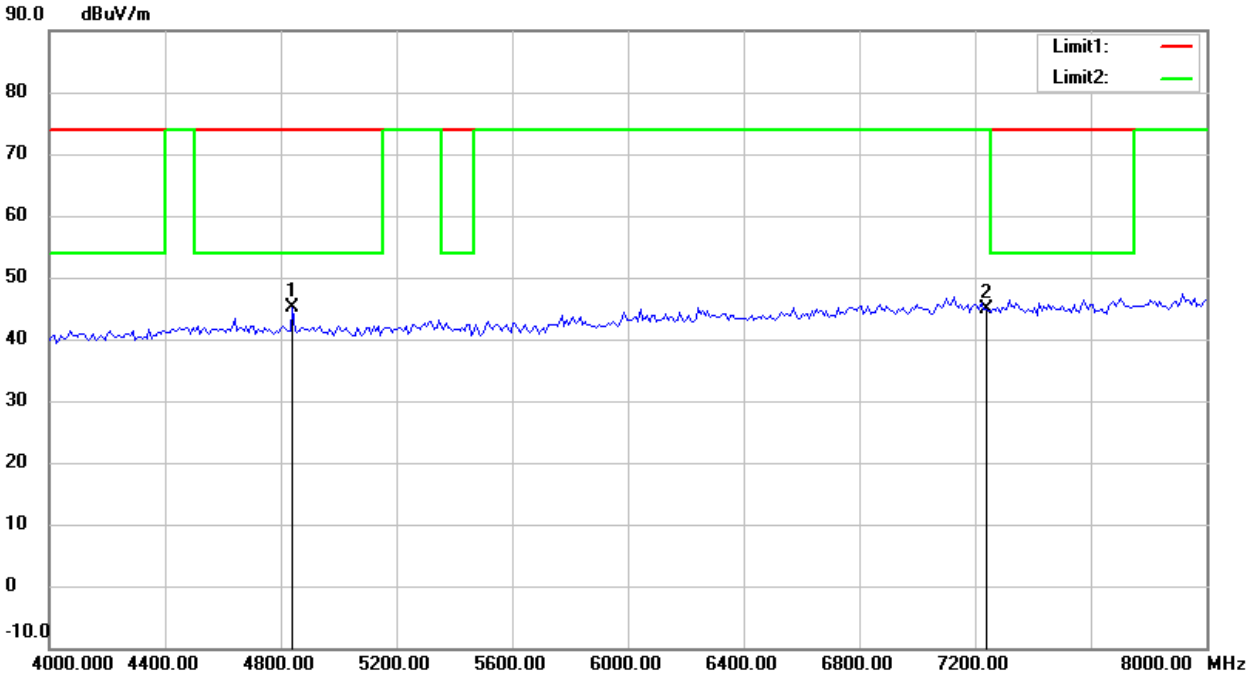

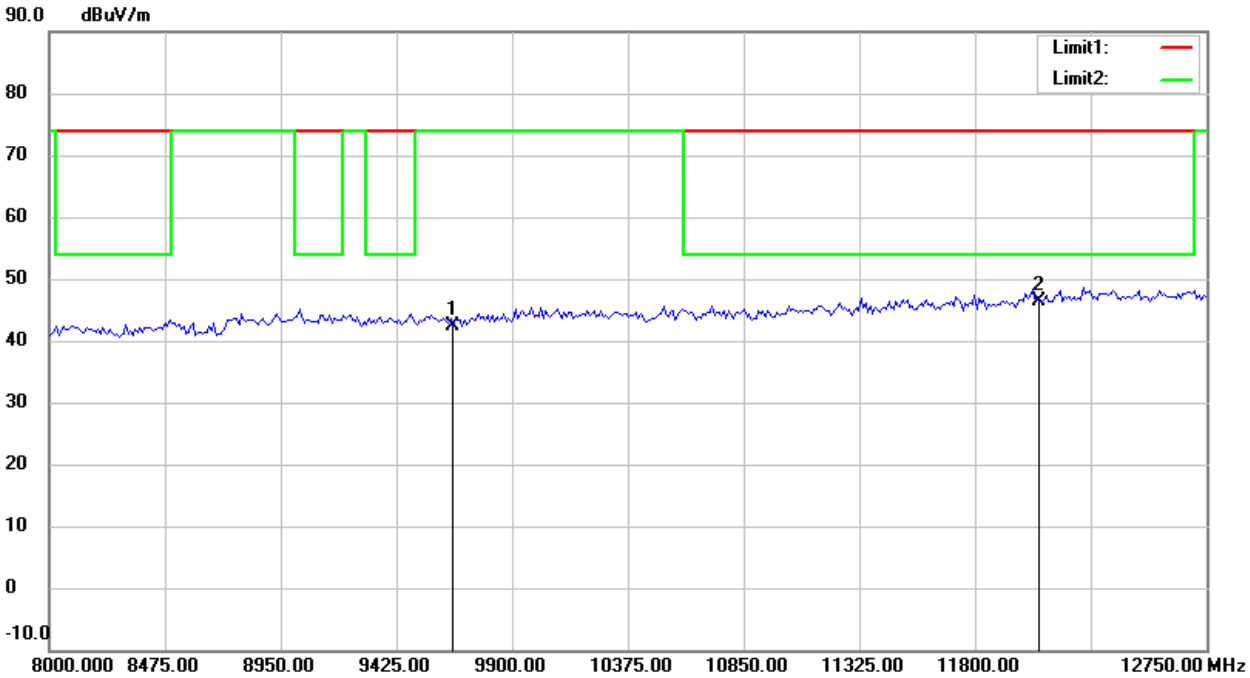

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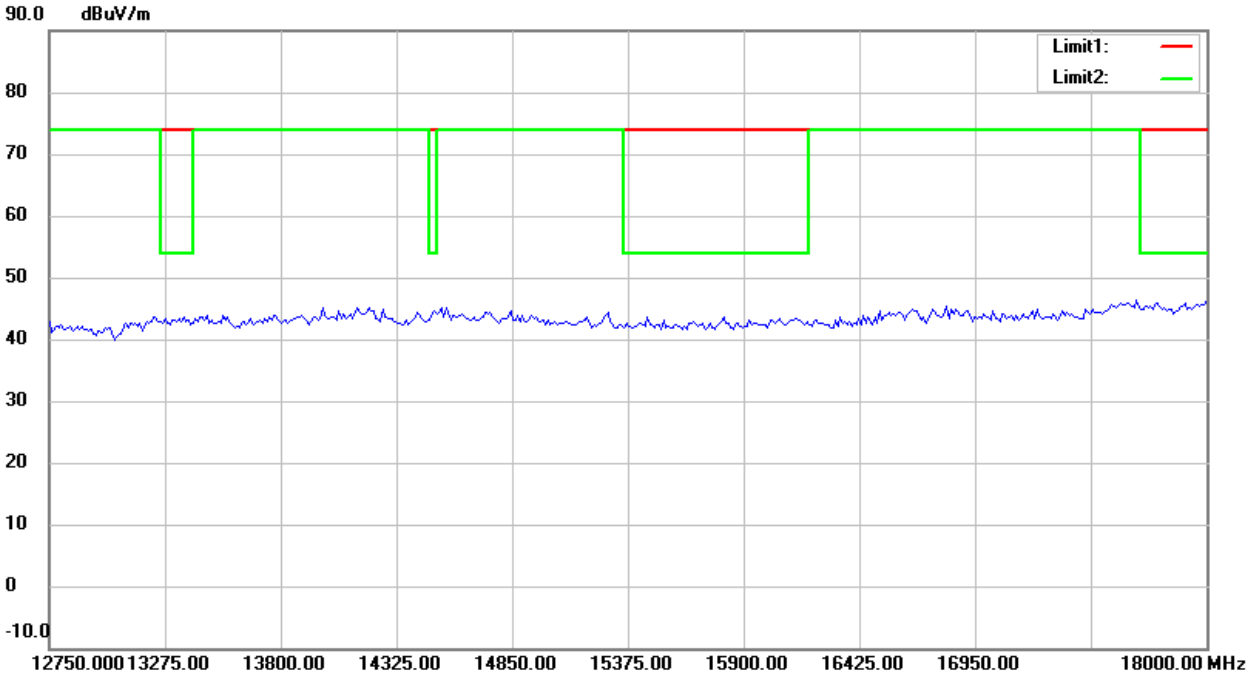

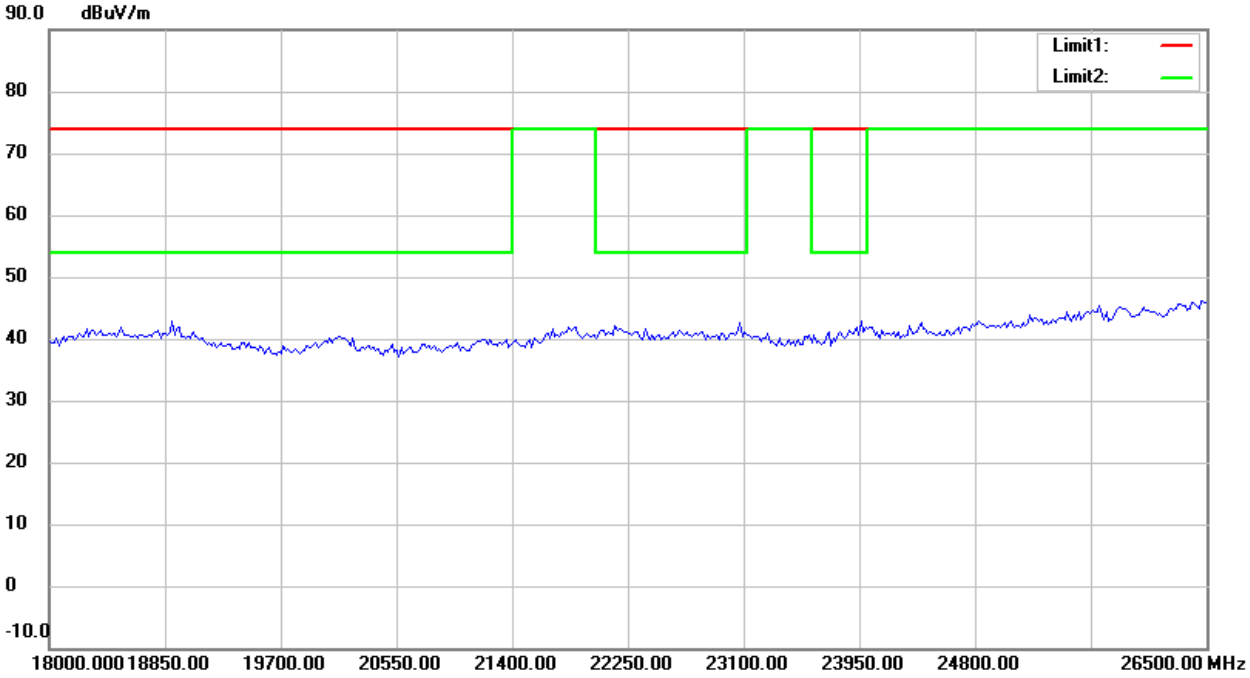

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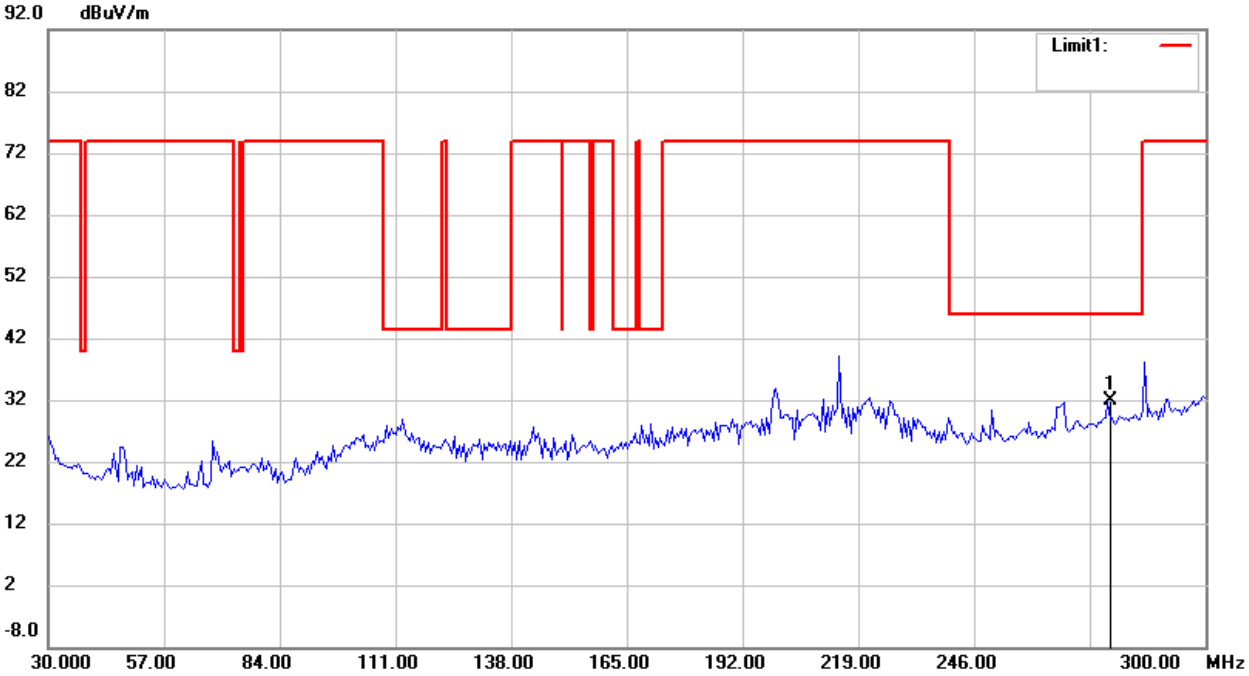
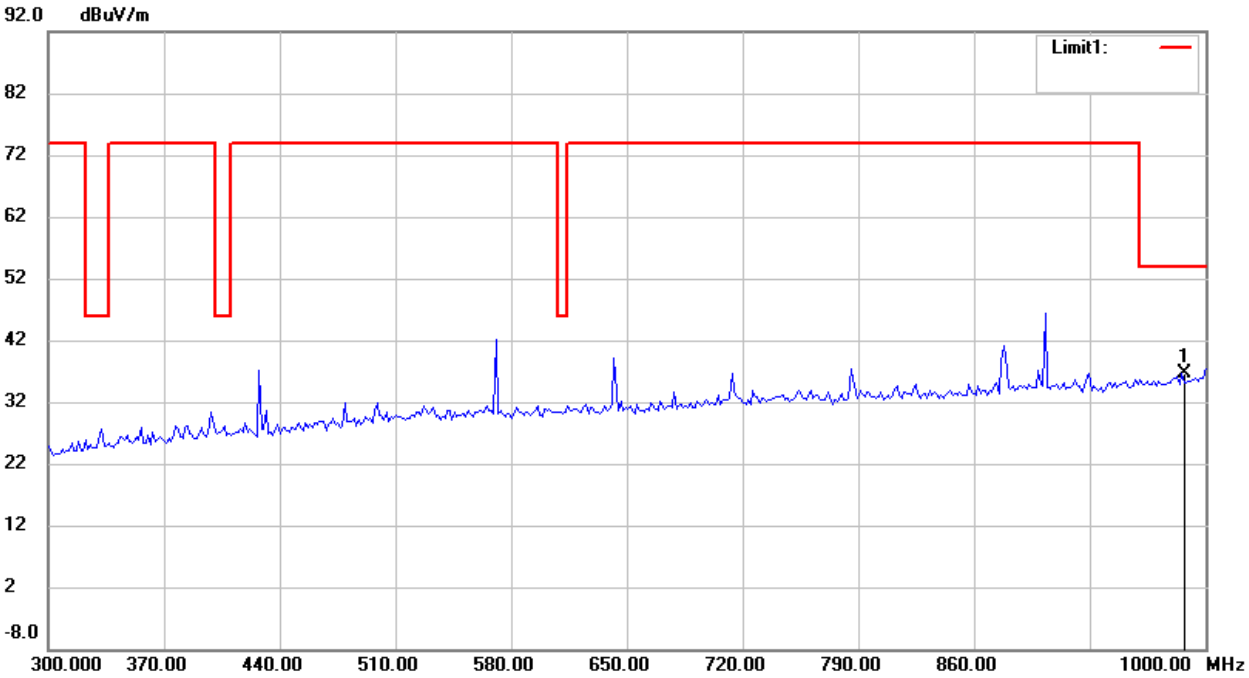
Registration number: W6M21008-10827-C-1
FCC ID: JCK-T1125

Antenna Polarization V





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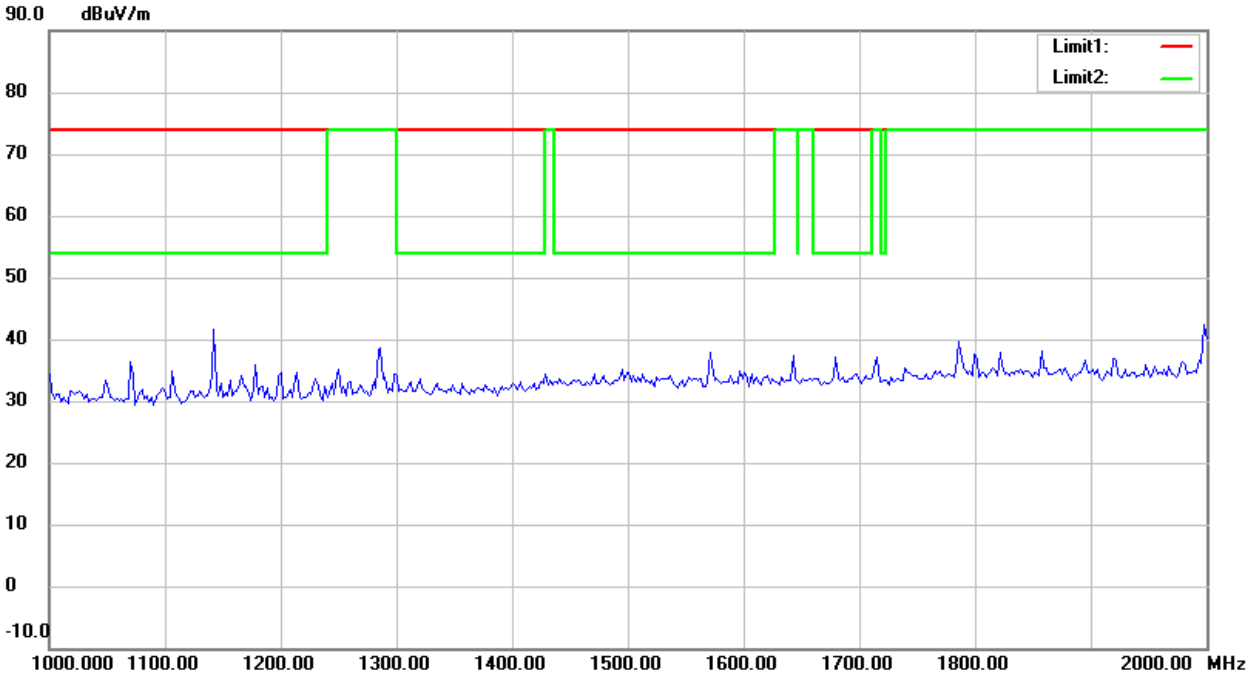

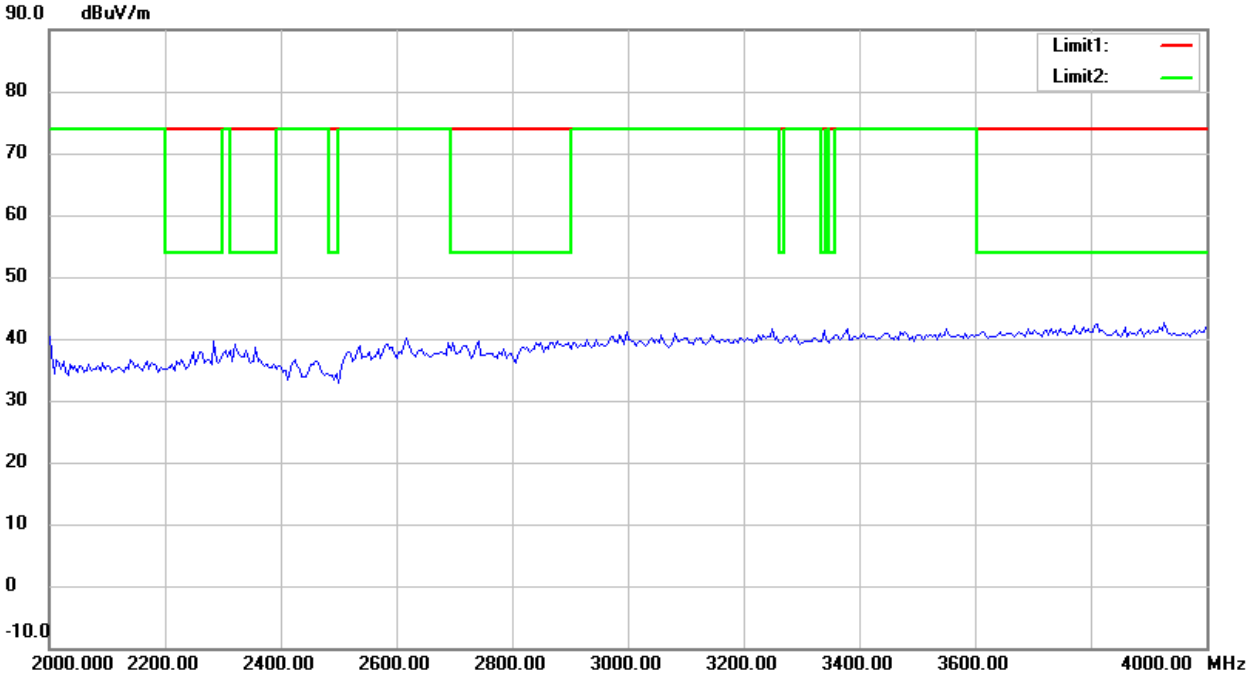

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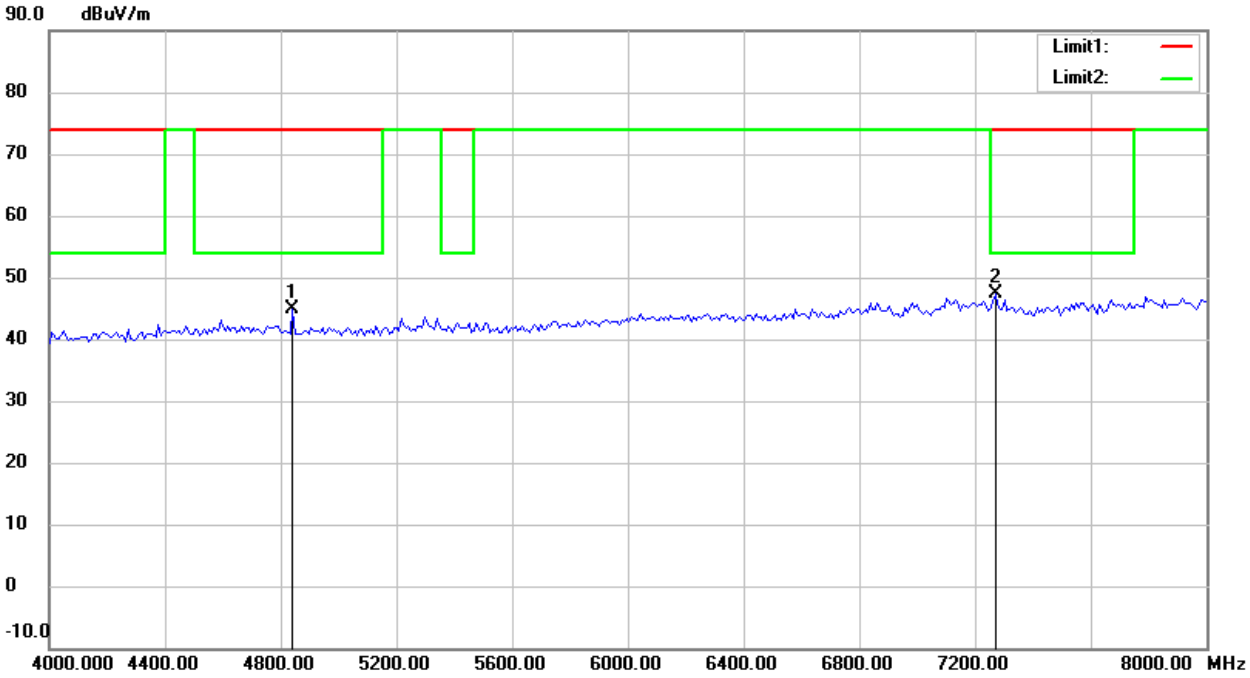

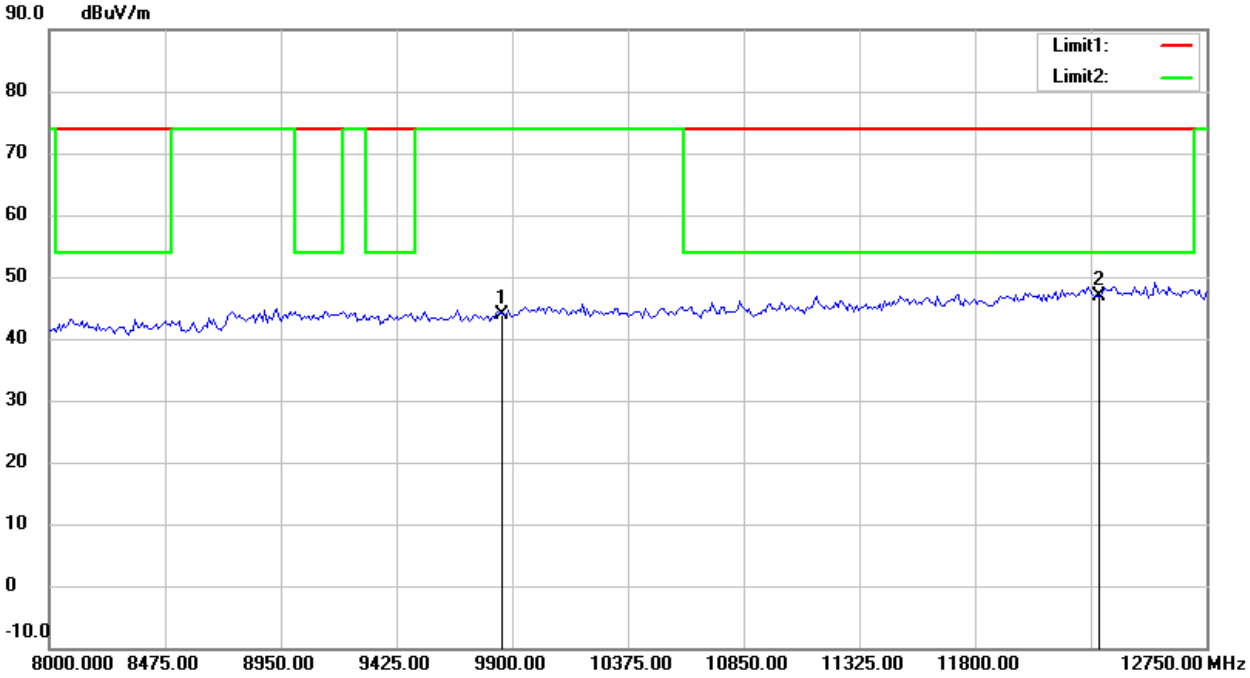

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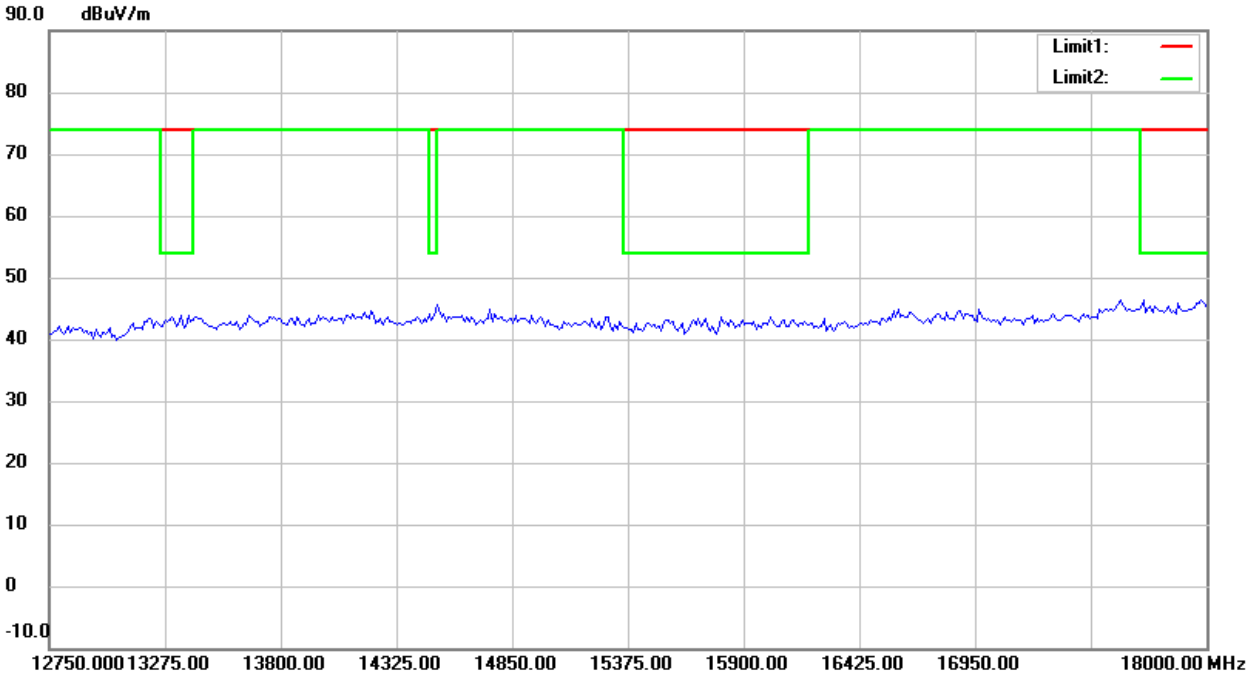

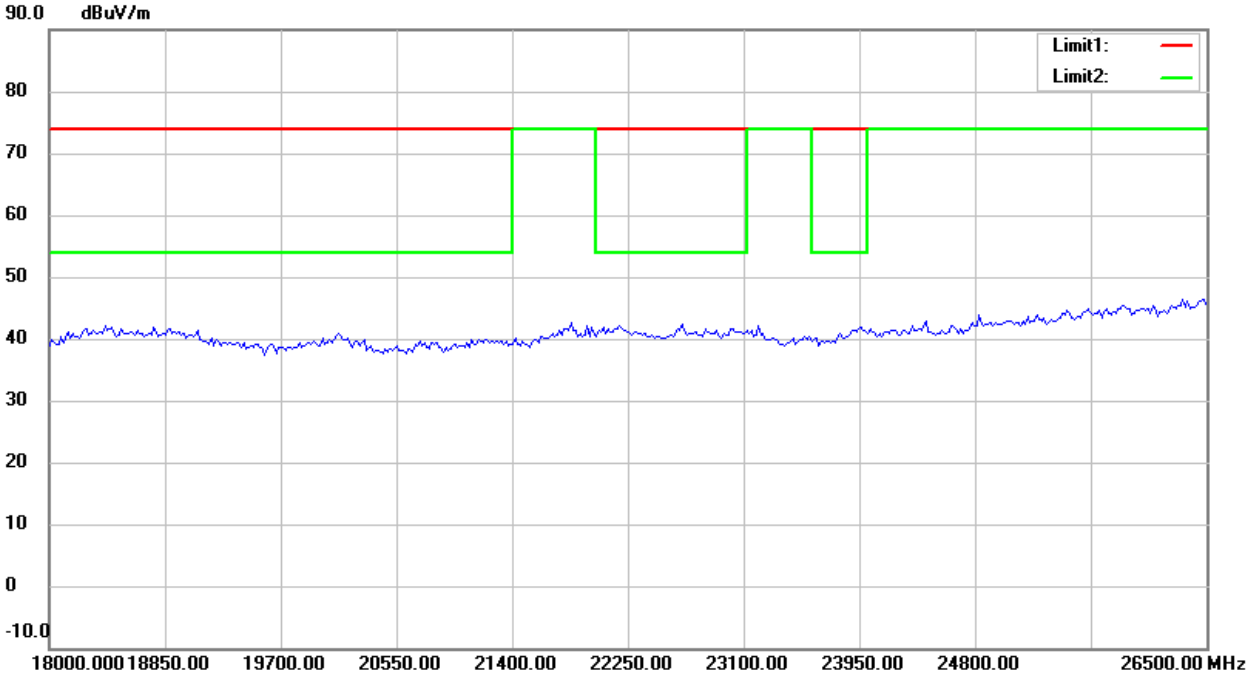

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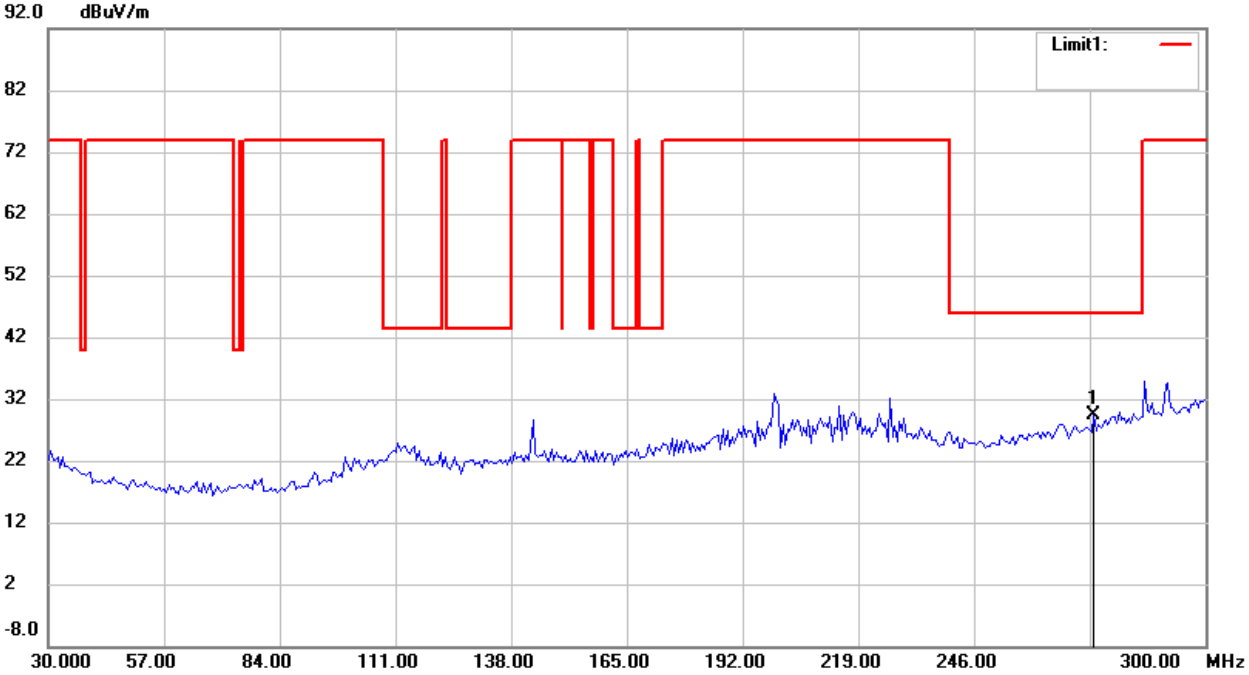
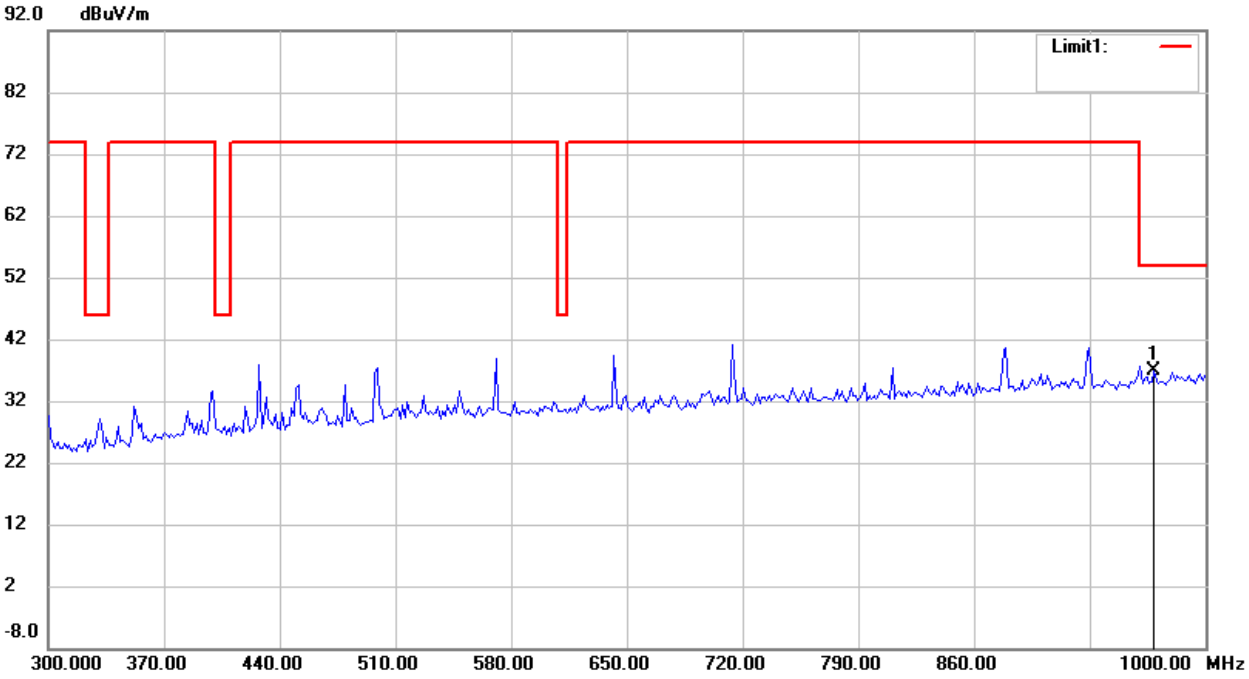
FCC ID: JCK-T1125

WLAN 11G-2412 MHz
Antenna Polarization H





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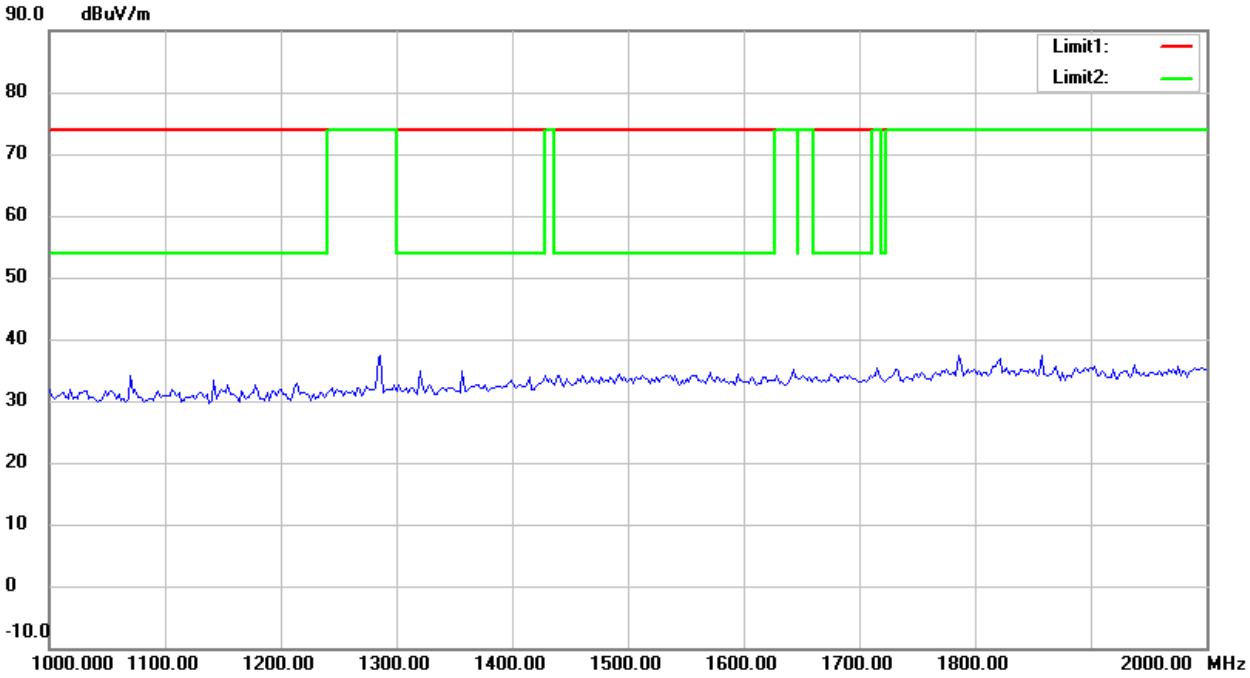

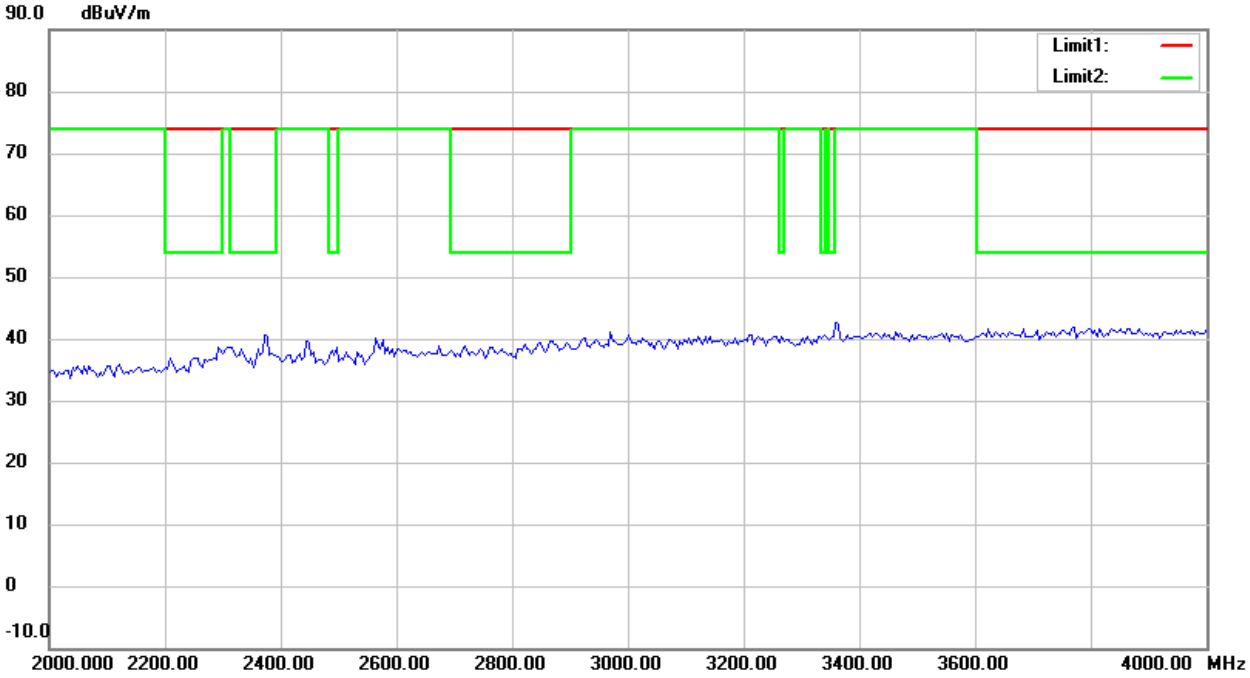

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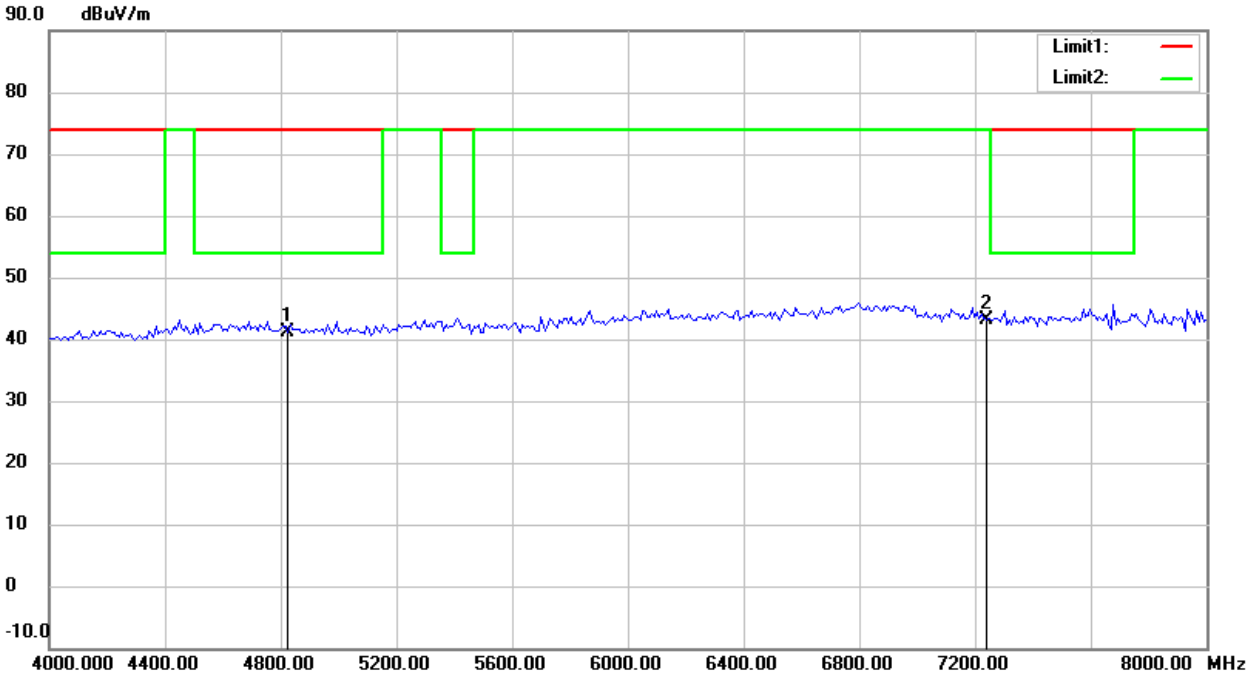

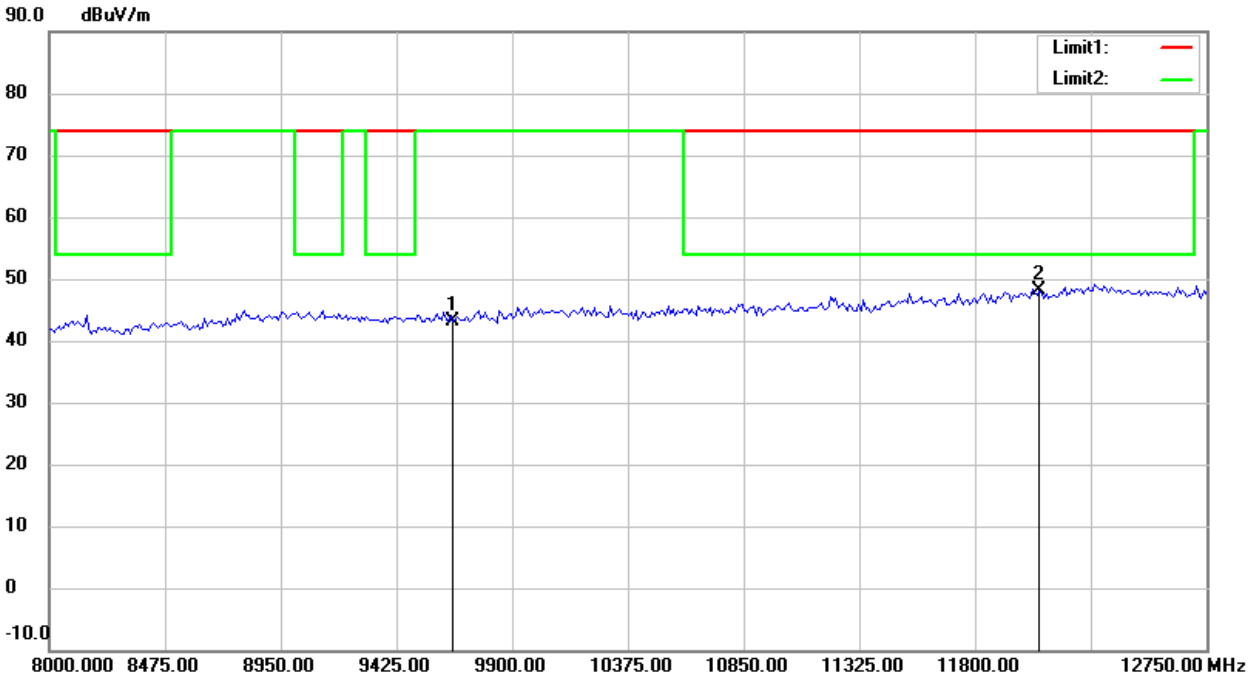

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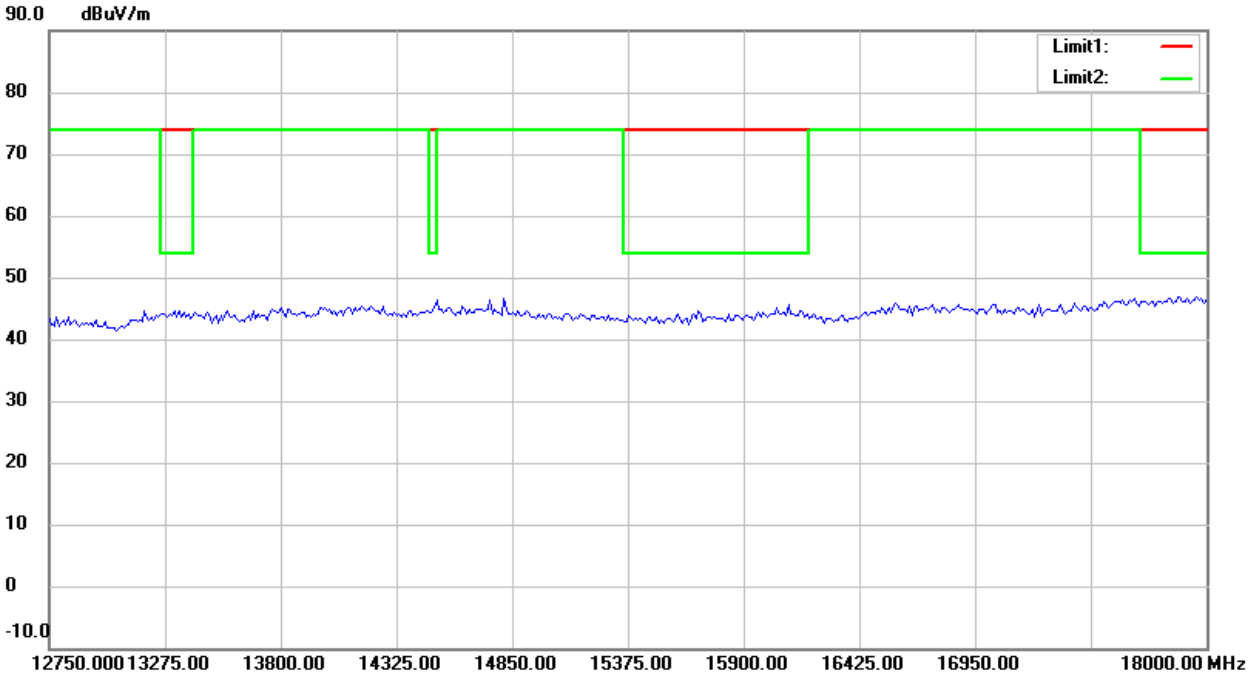

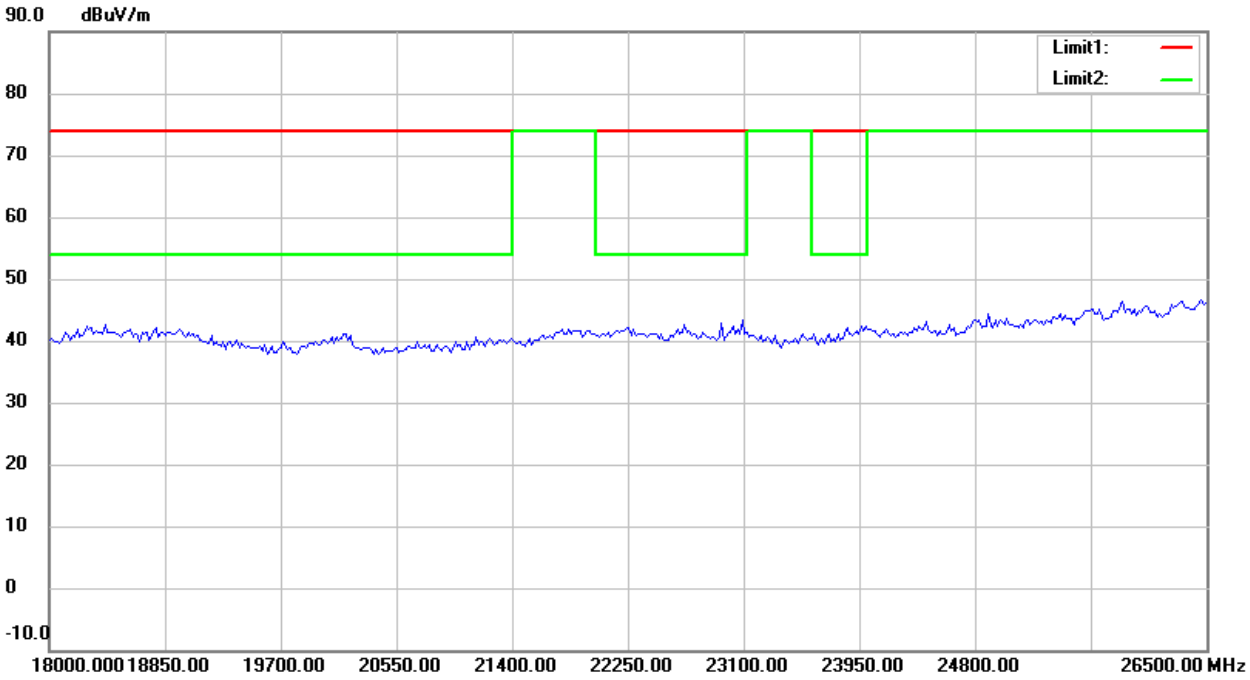

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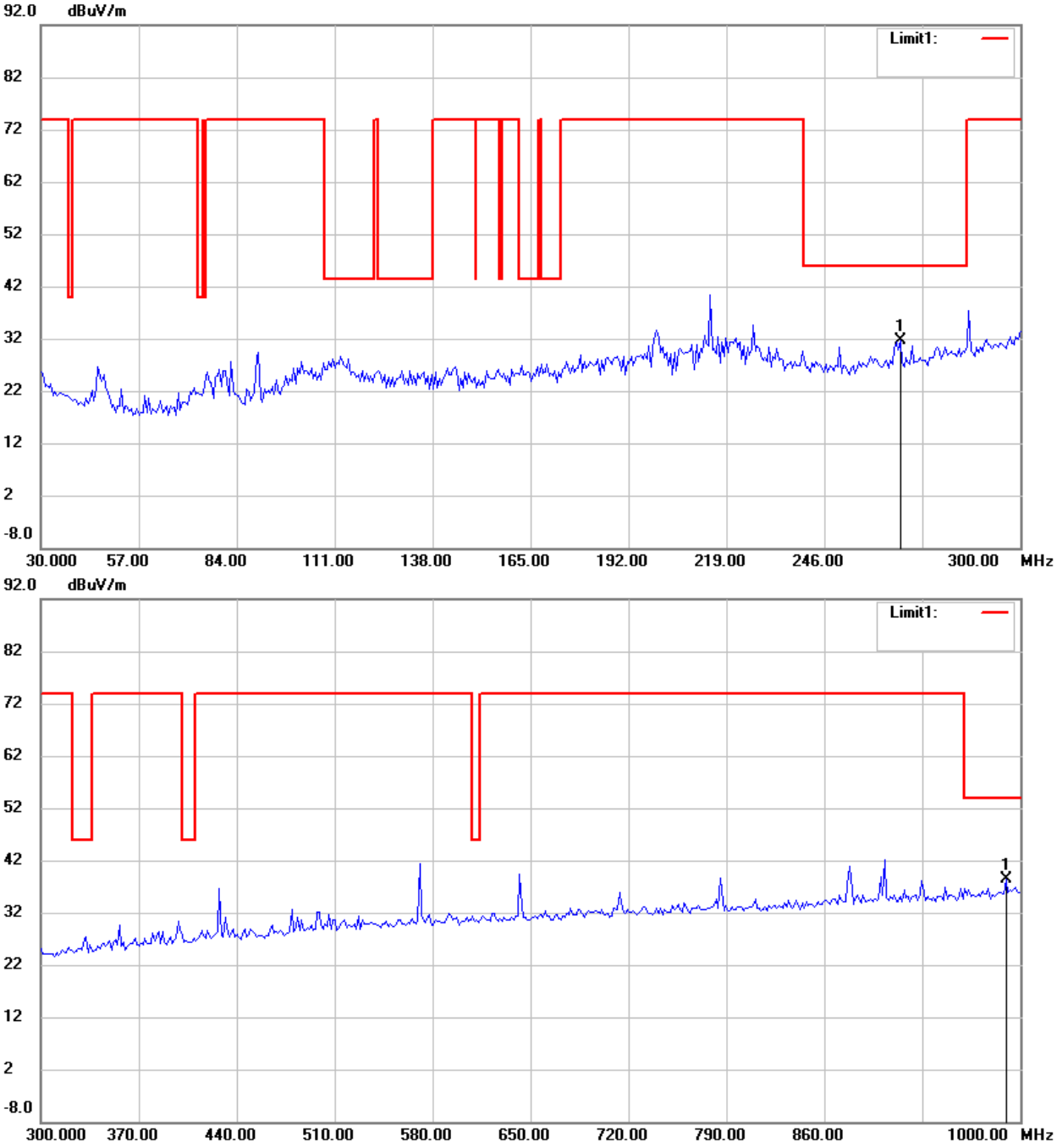
Registration number: W6M21008-10827-C-1
FCC ID: JCK-T1125

Antenna Polarization V



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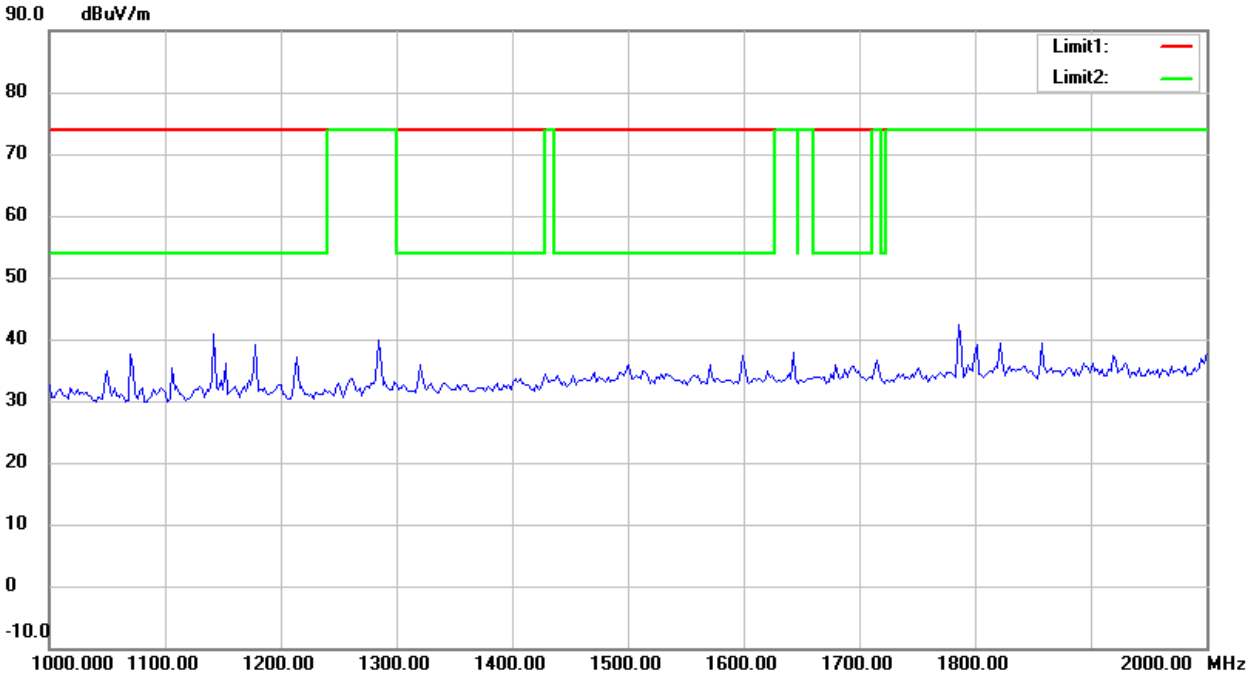

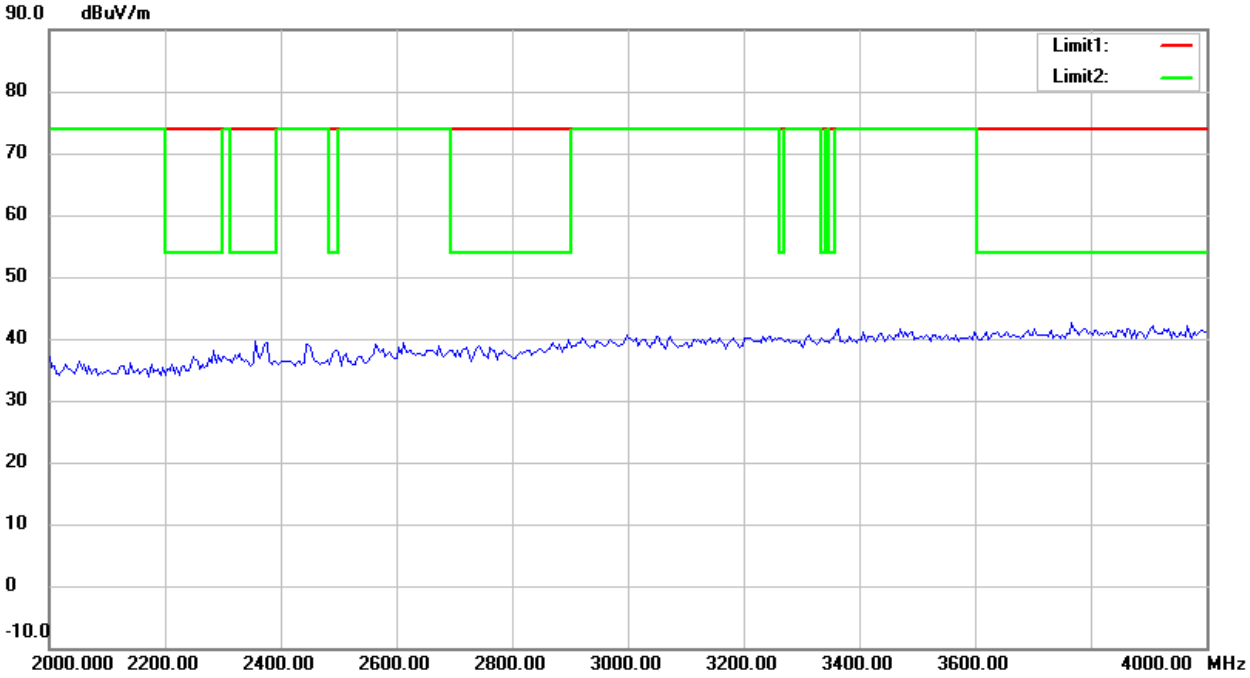

Note:
Up Line: Peak Limit Line Down Line: Ave Limit Line

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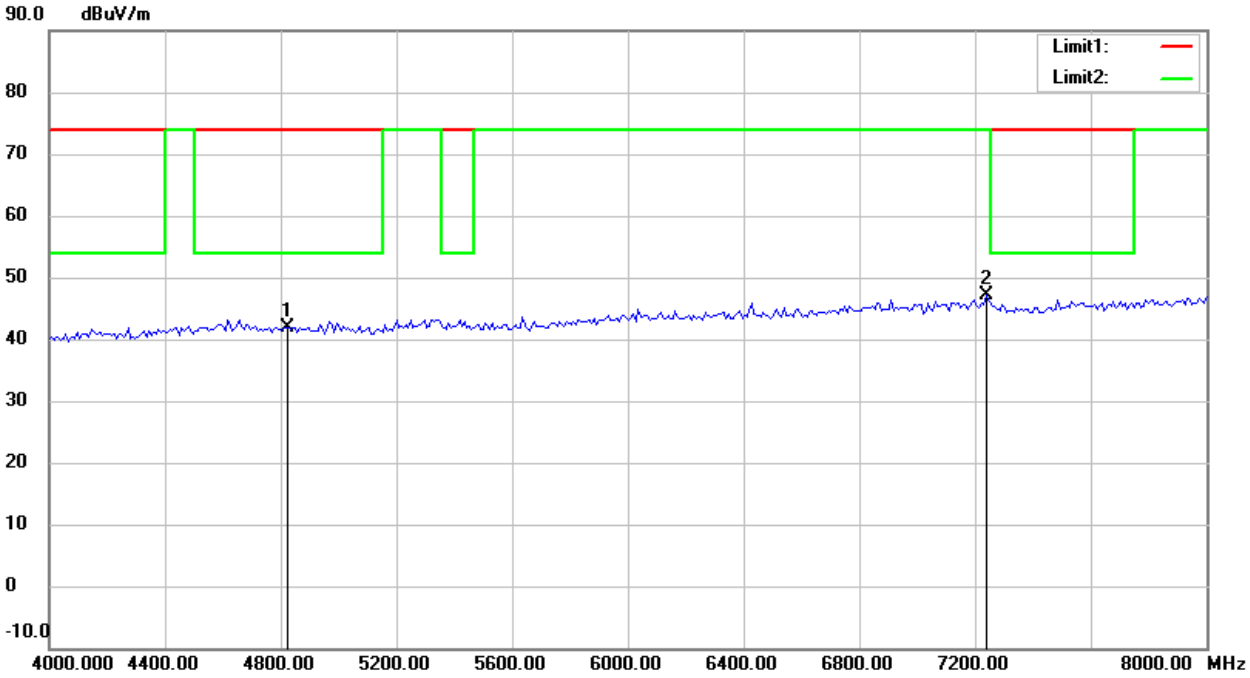
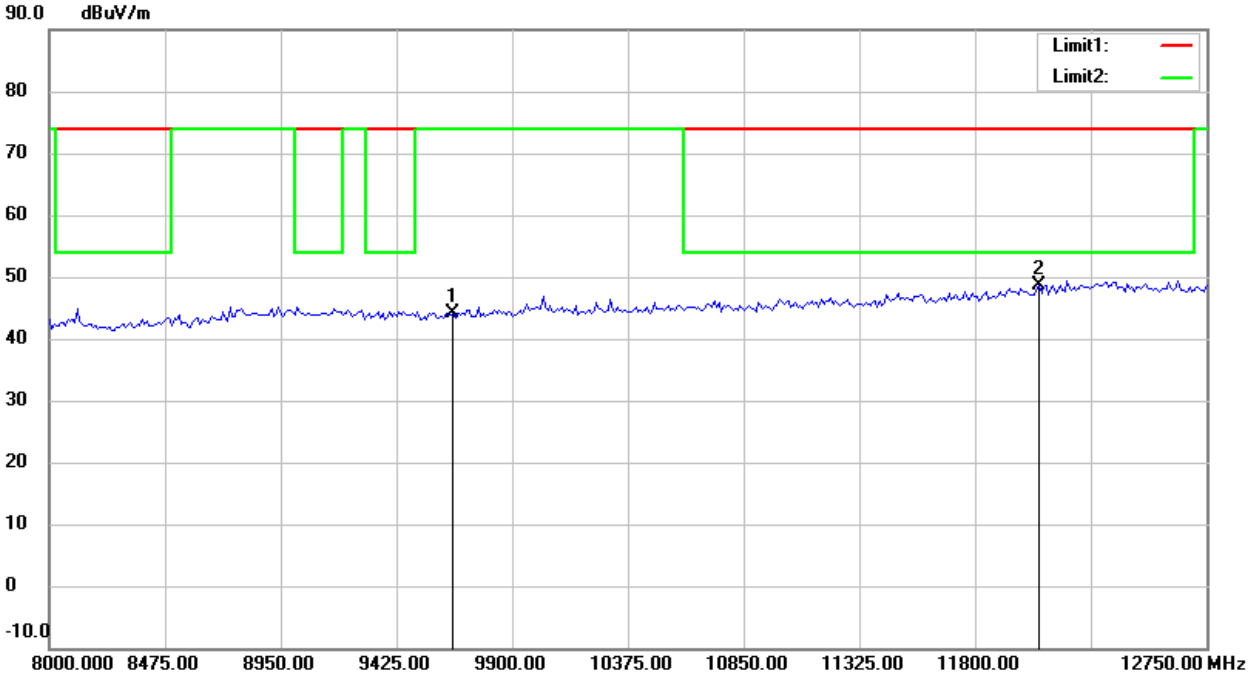
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**





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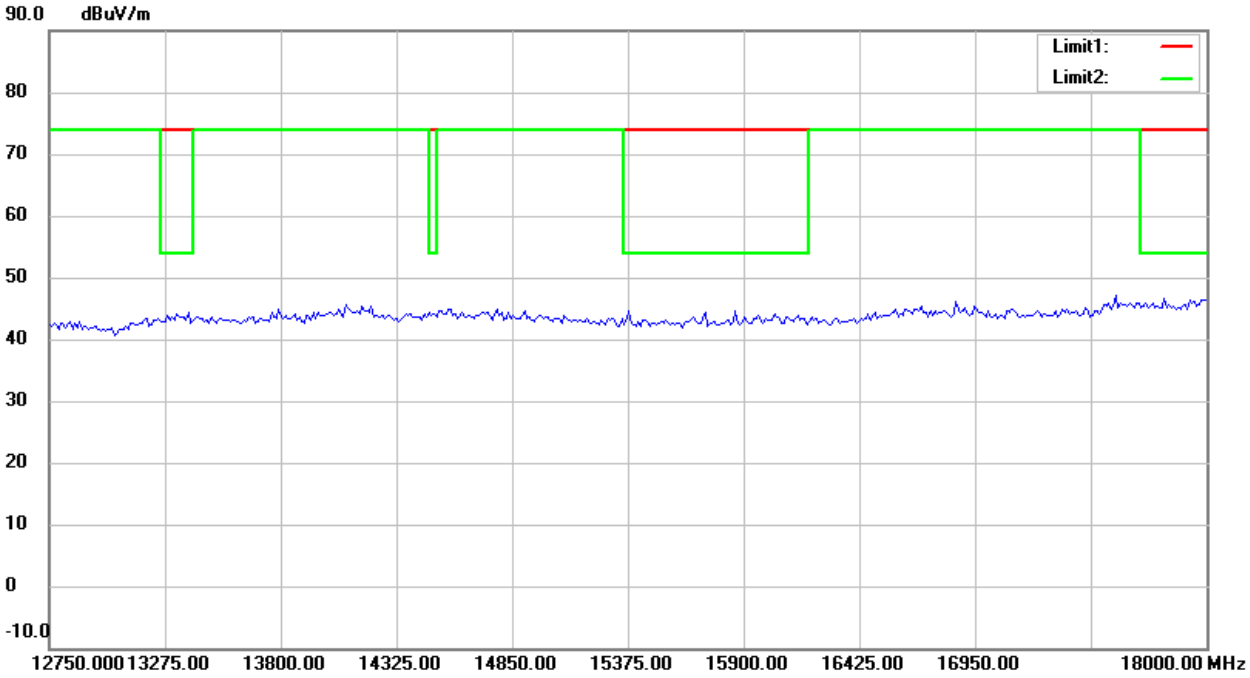

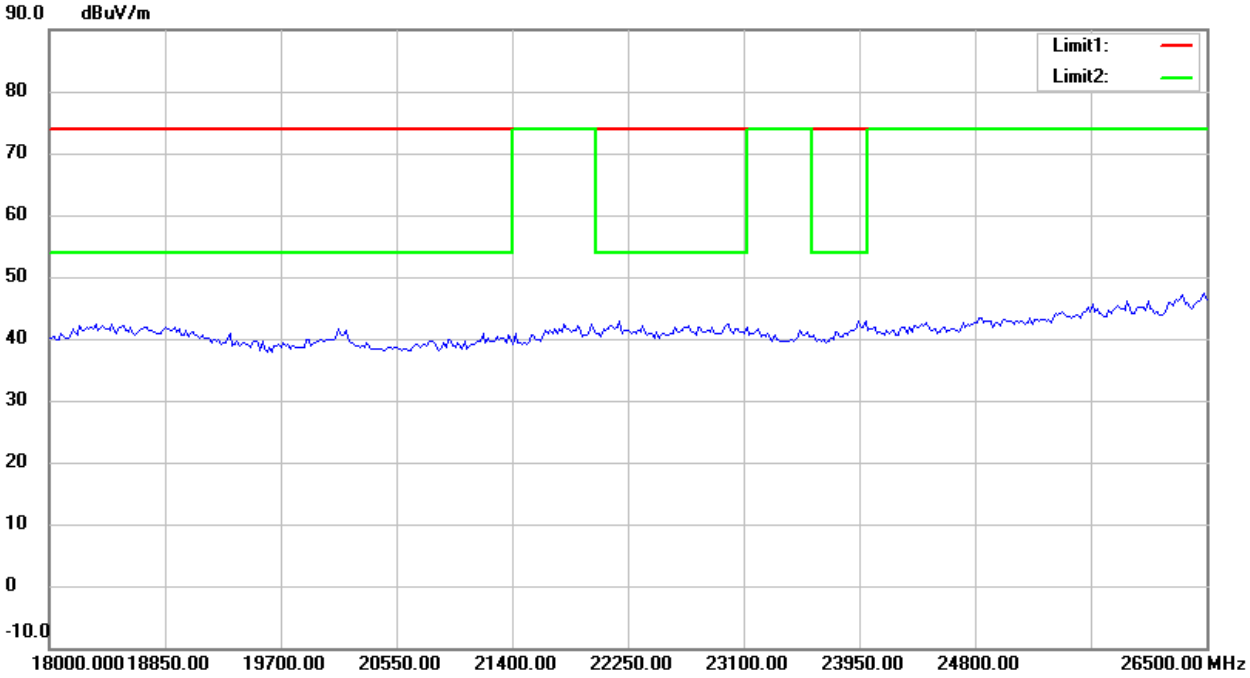

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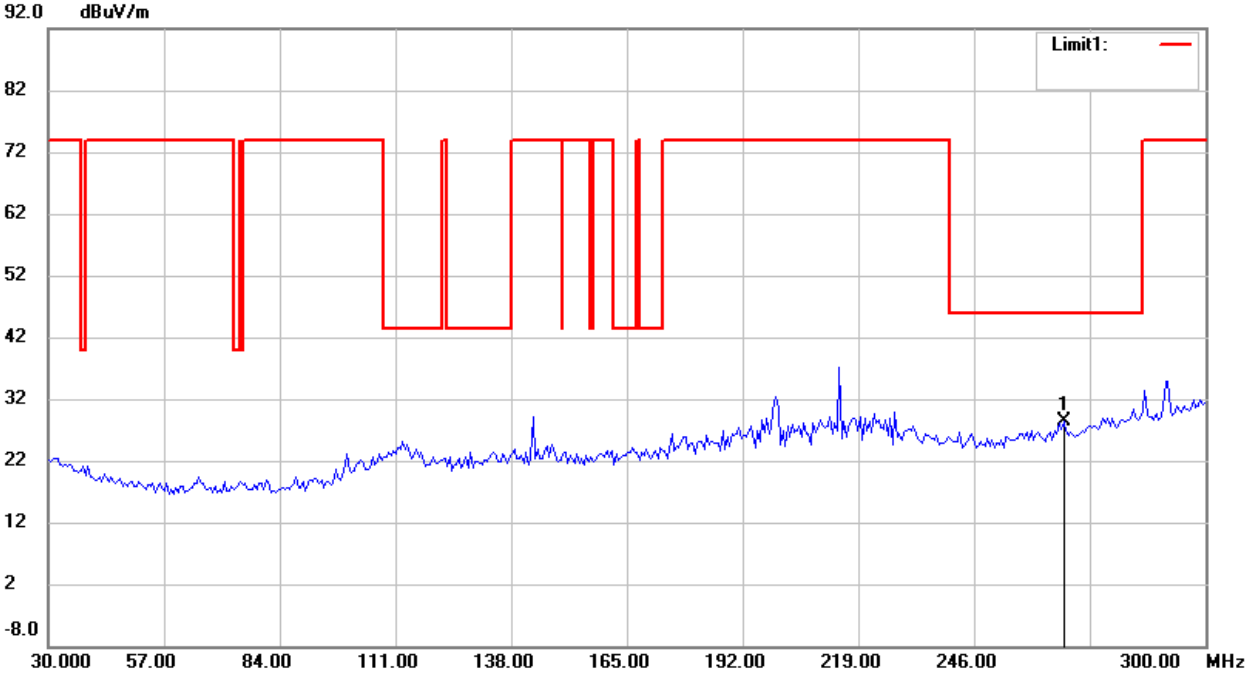
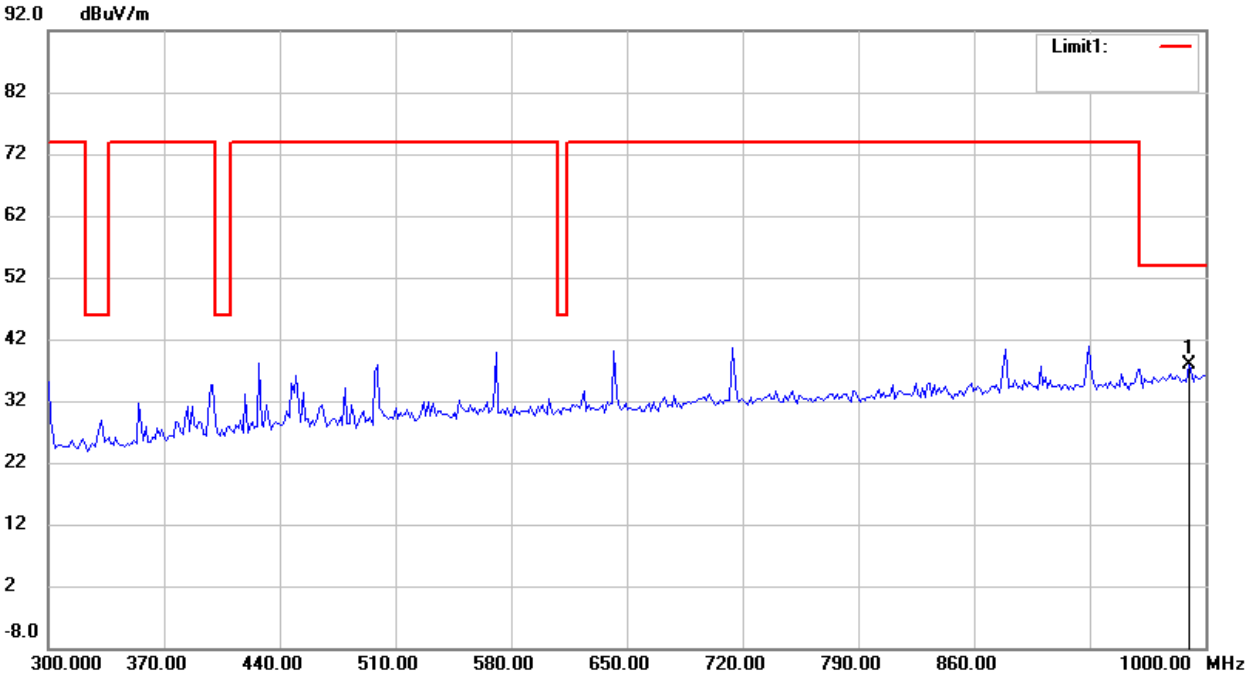
Registration number: W6M21008-10827-C-1
FCC ID: JCK-T1125

WLAN 11G-2437 MHz
Antenna Polarization H





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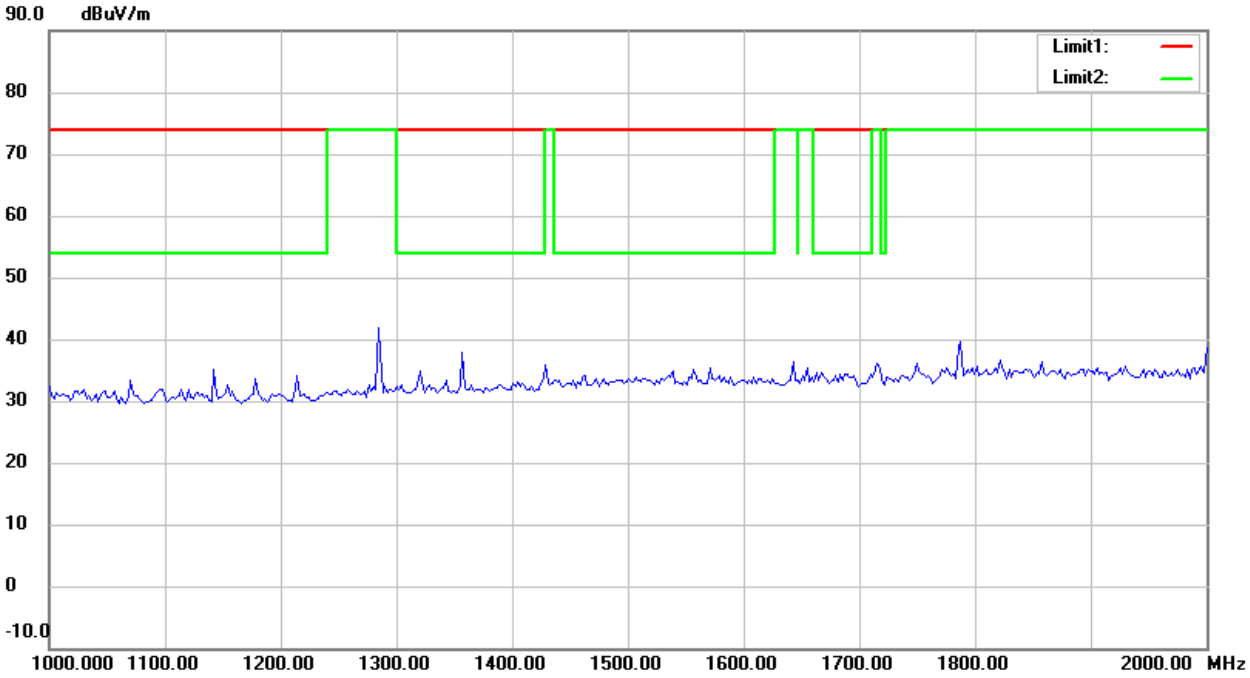

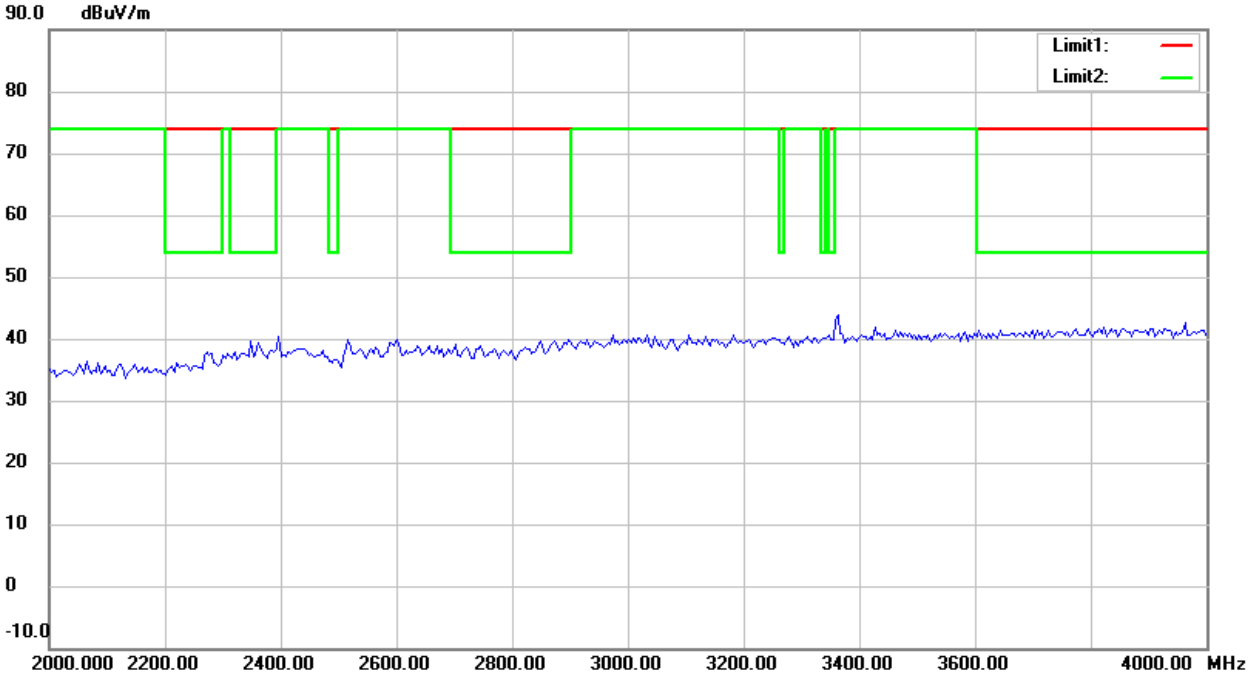

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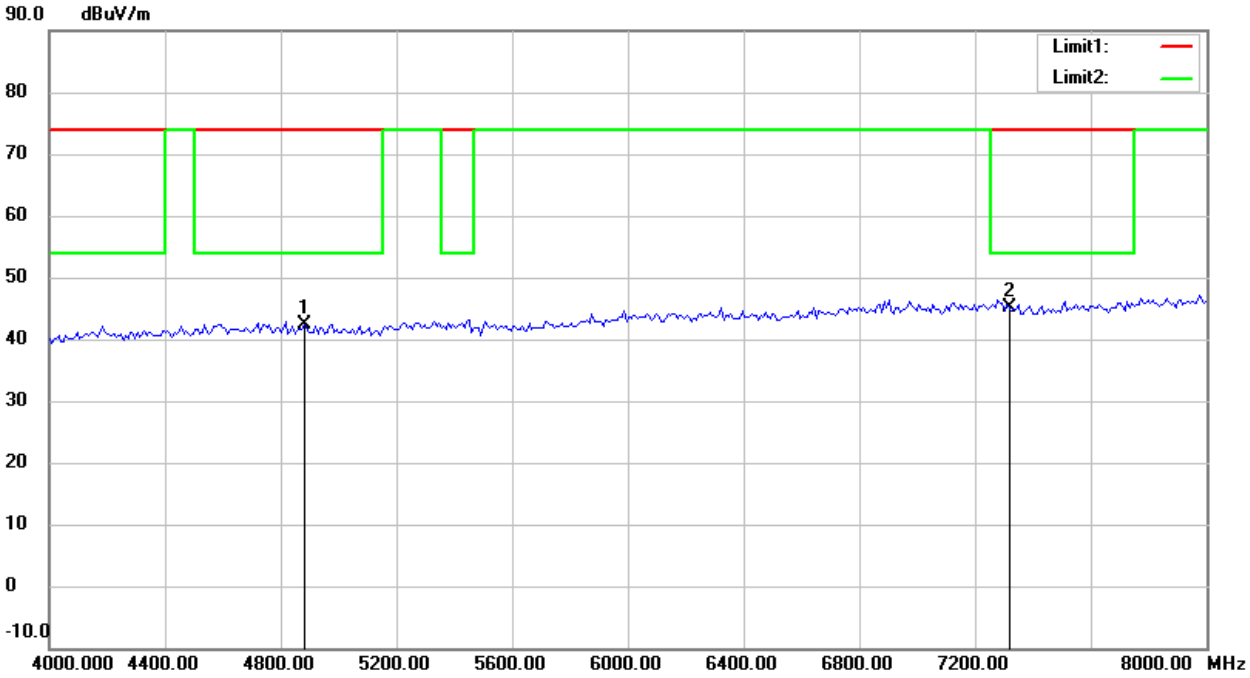

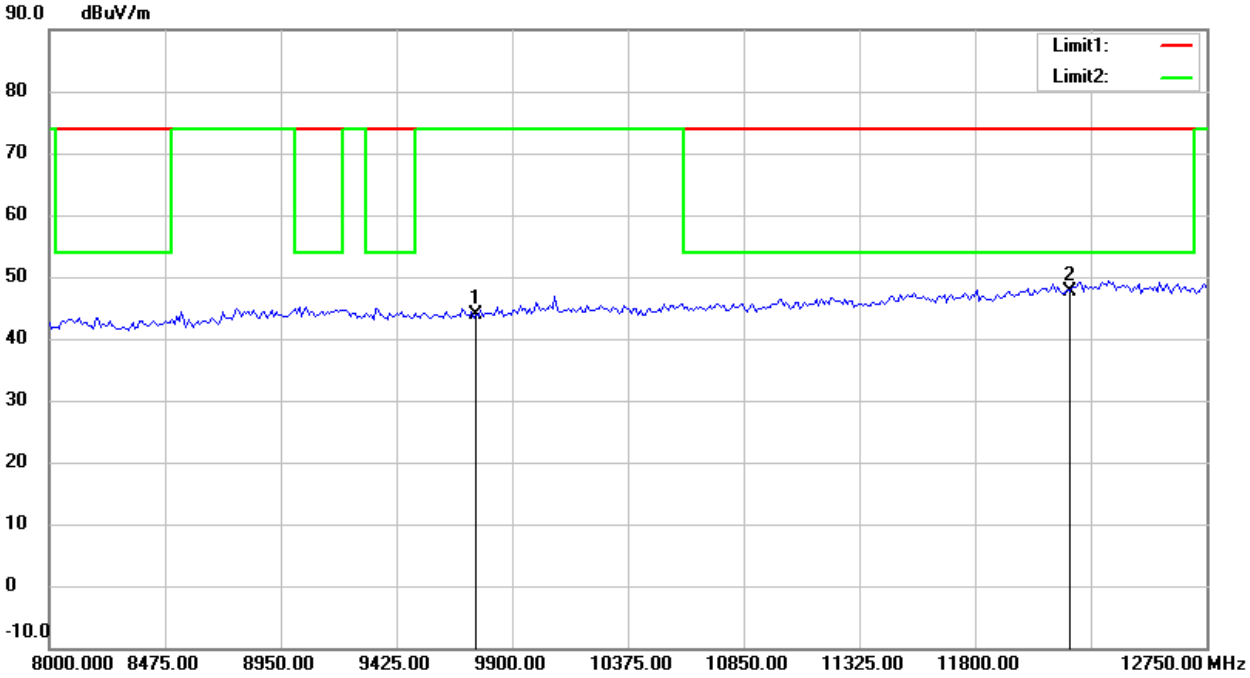

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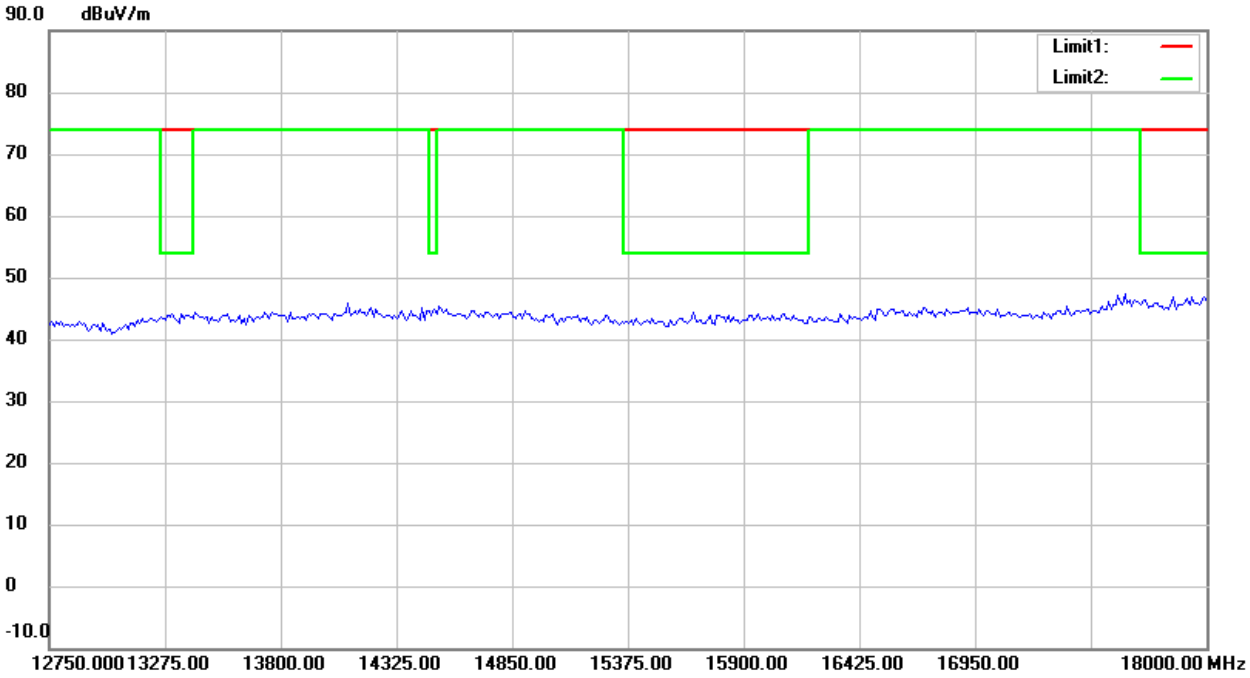

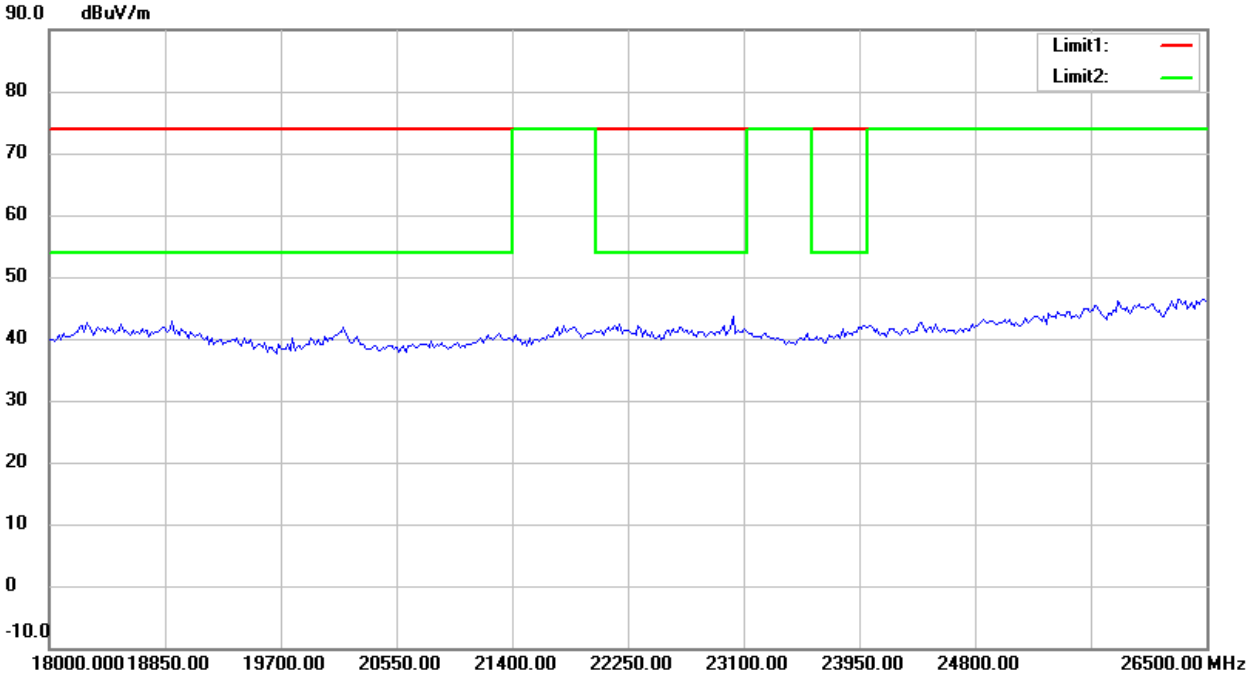

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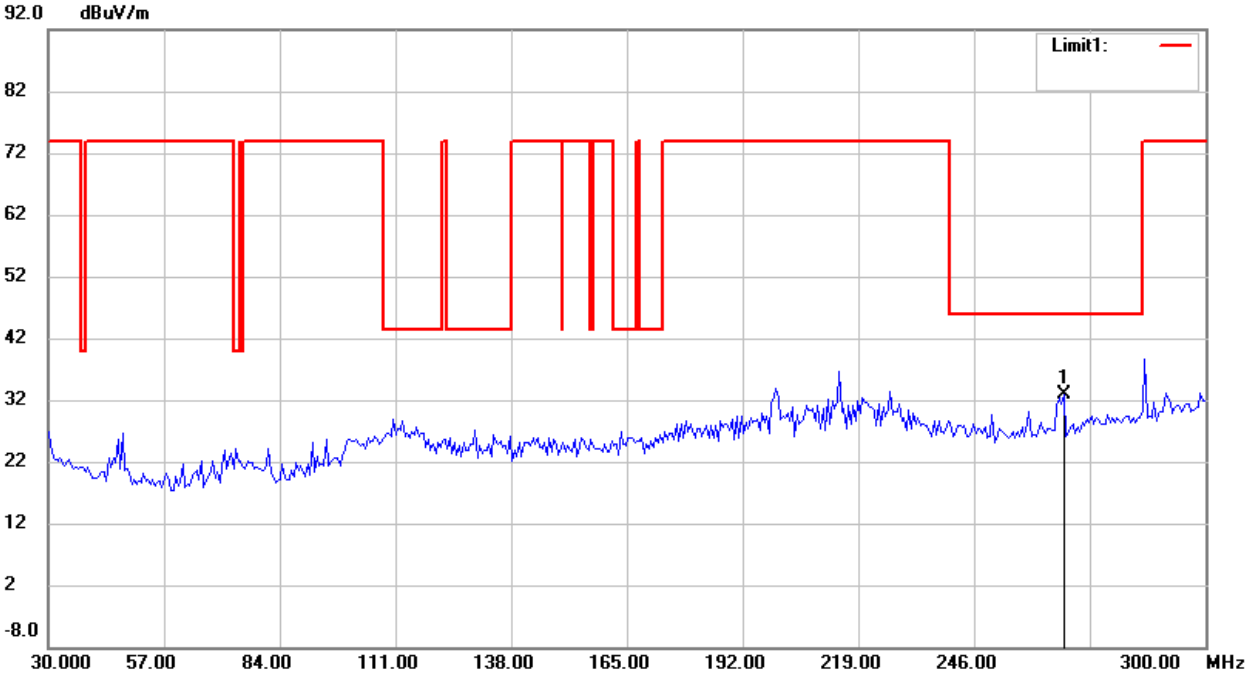
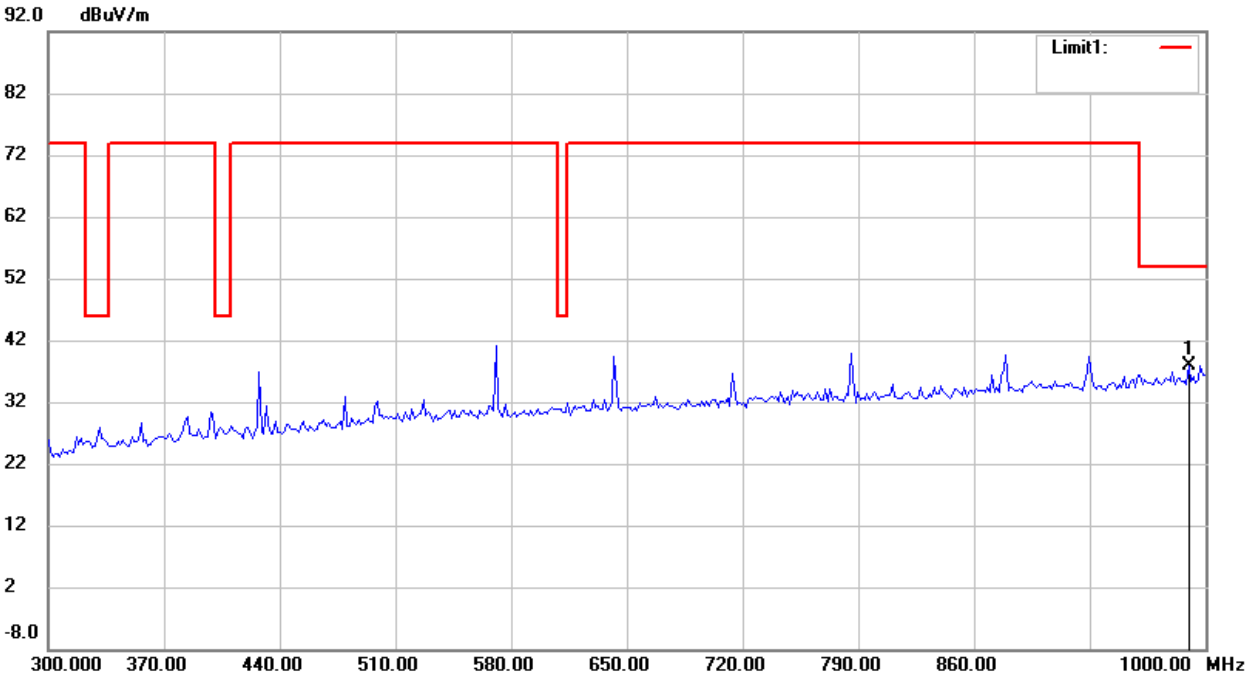
Registration number: W6M21008-10827-C-1
FCC ID: JCK-T1125

Antenna Polarization V





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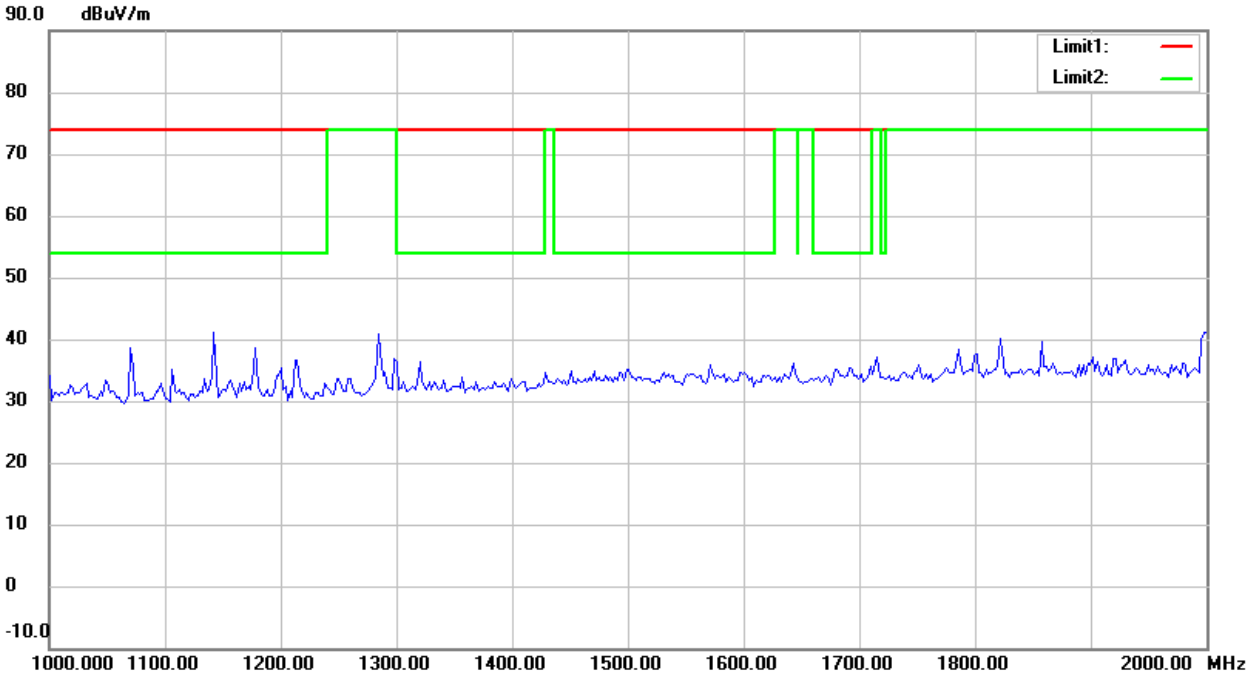

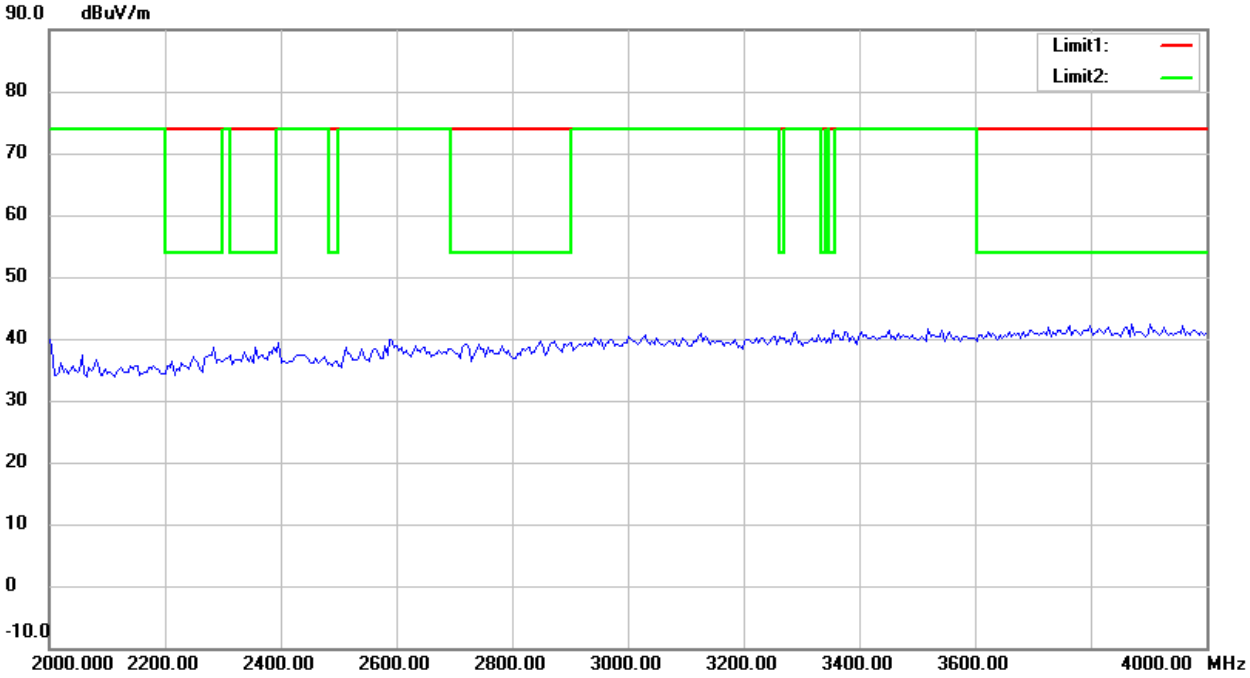

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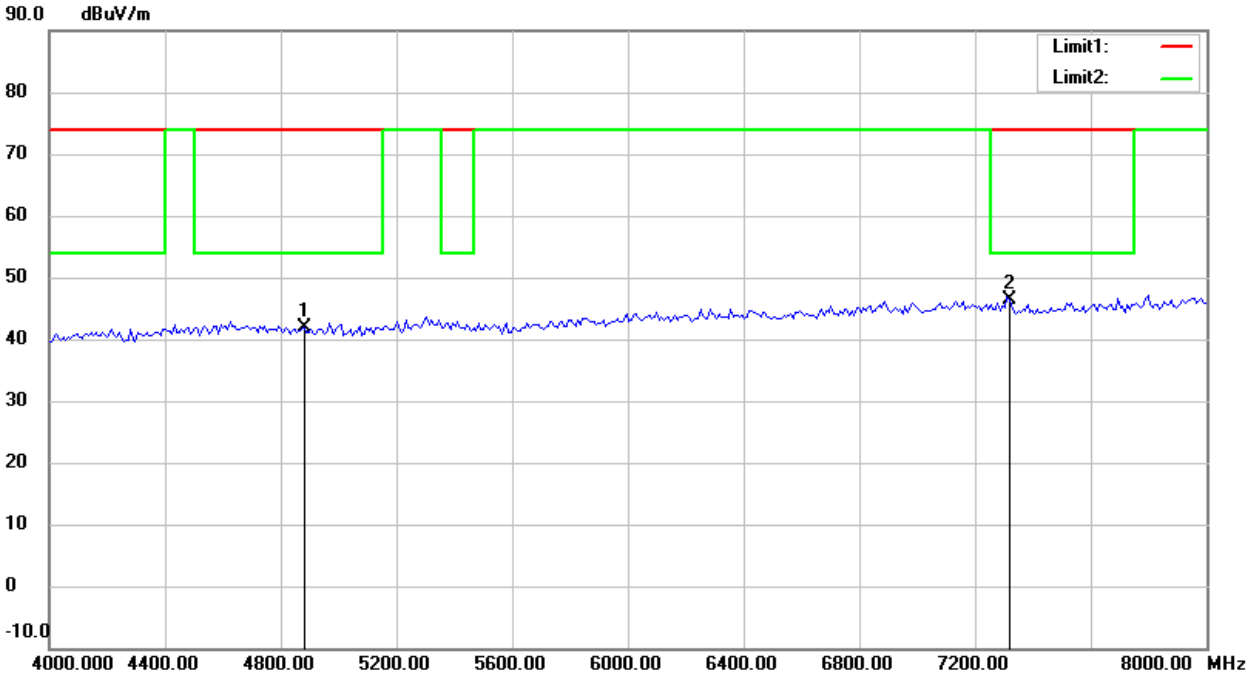

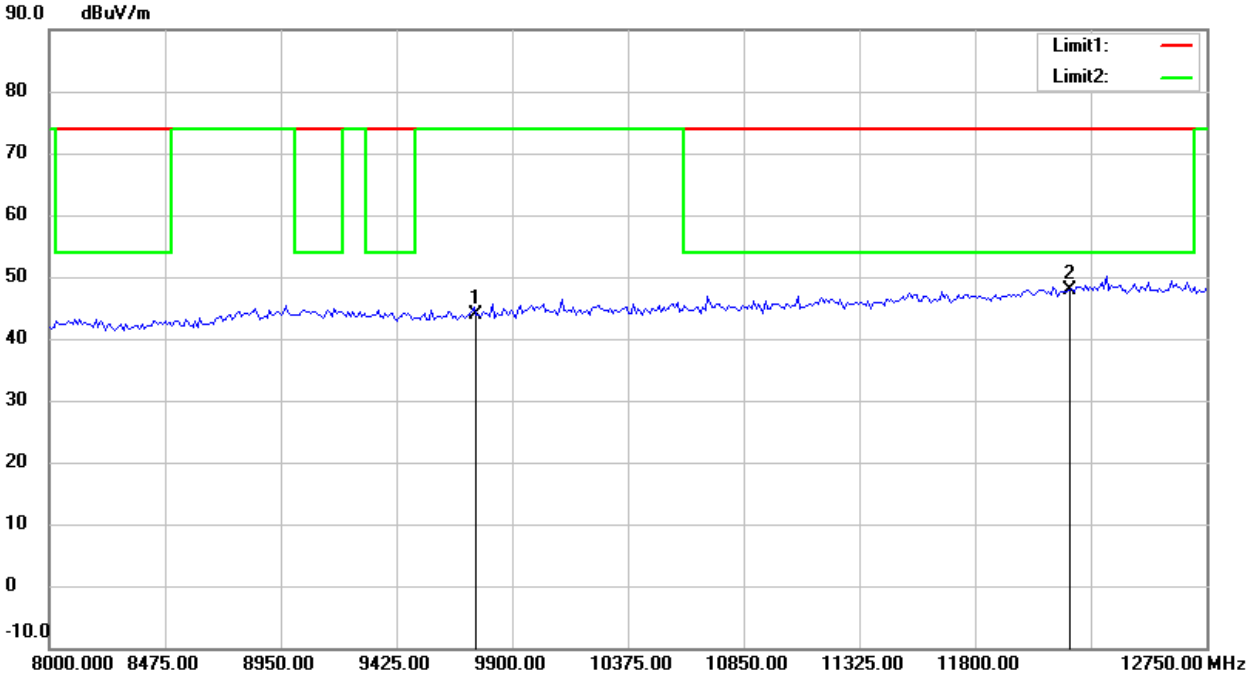

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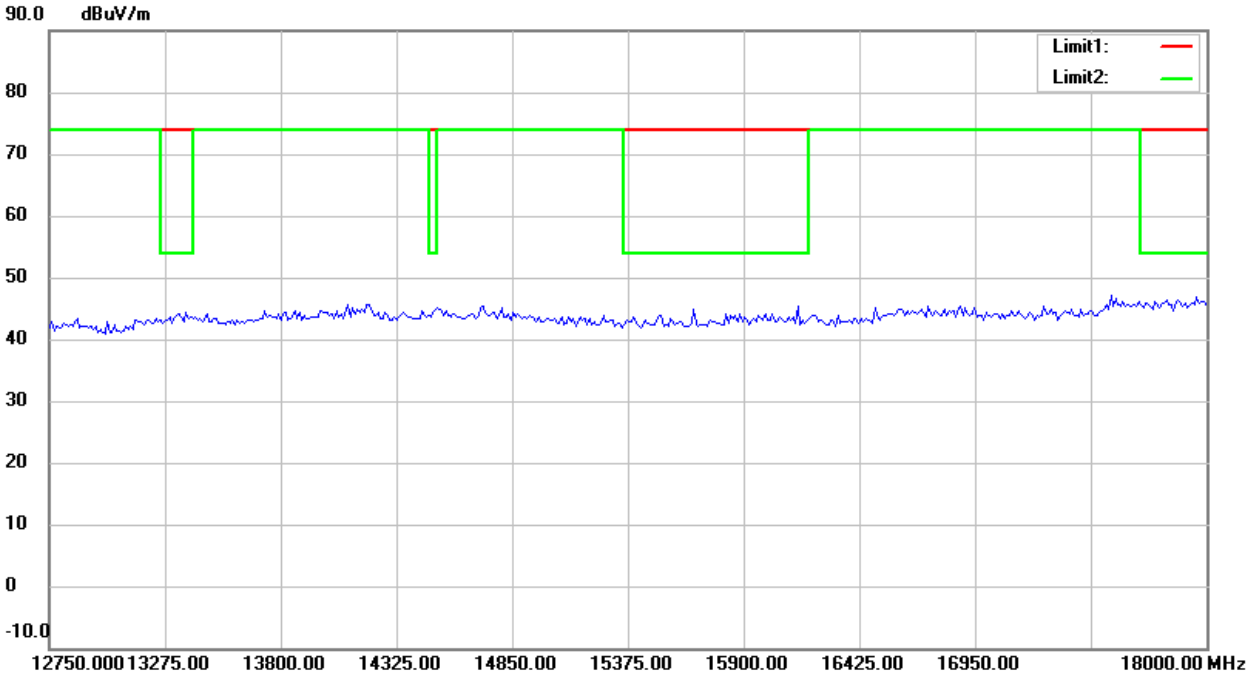

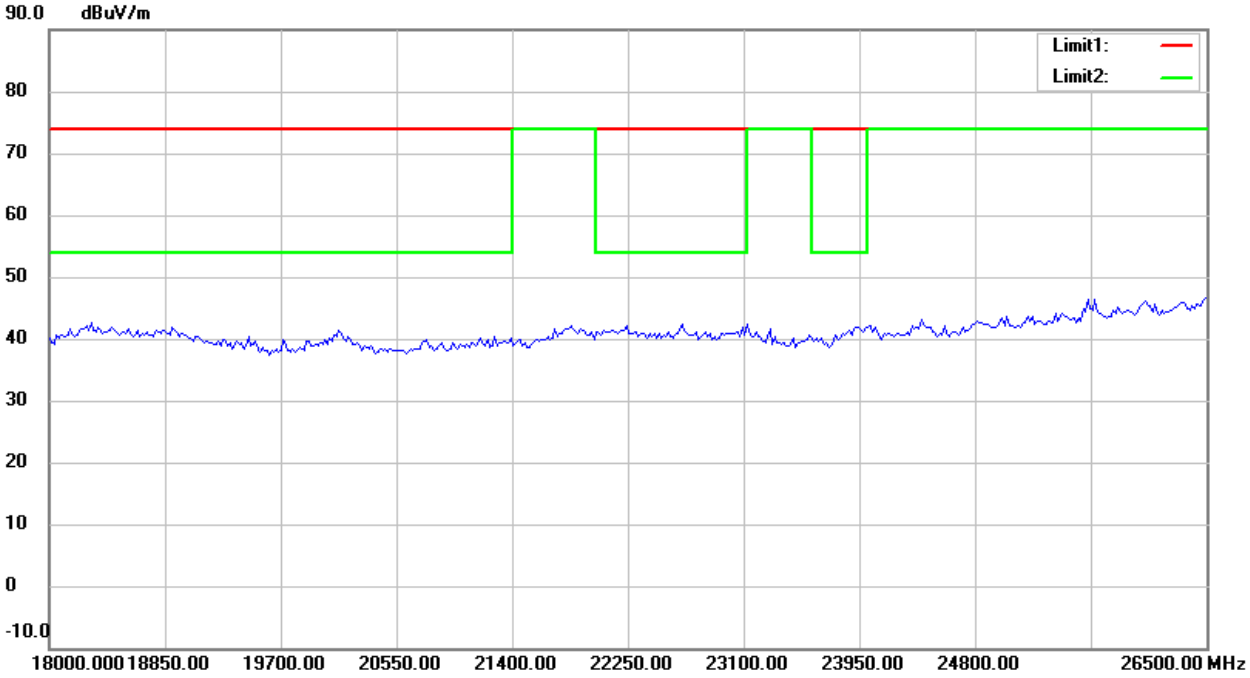

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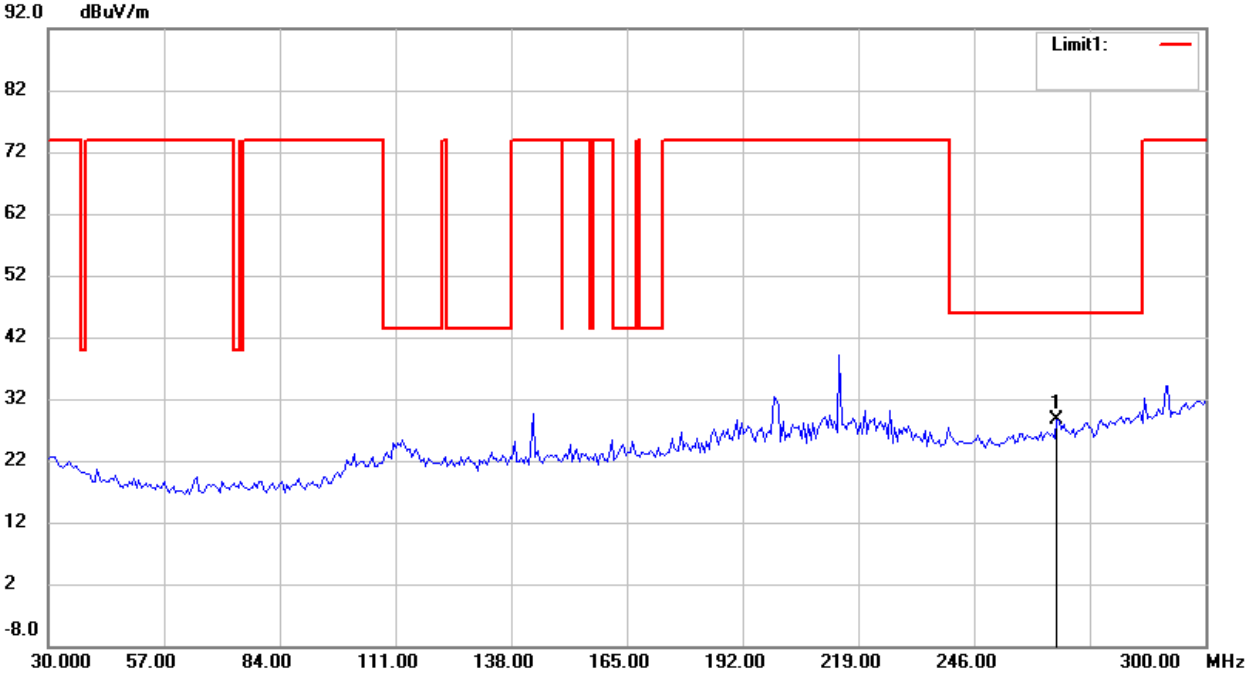
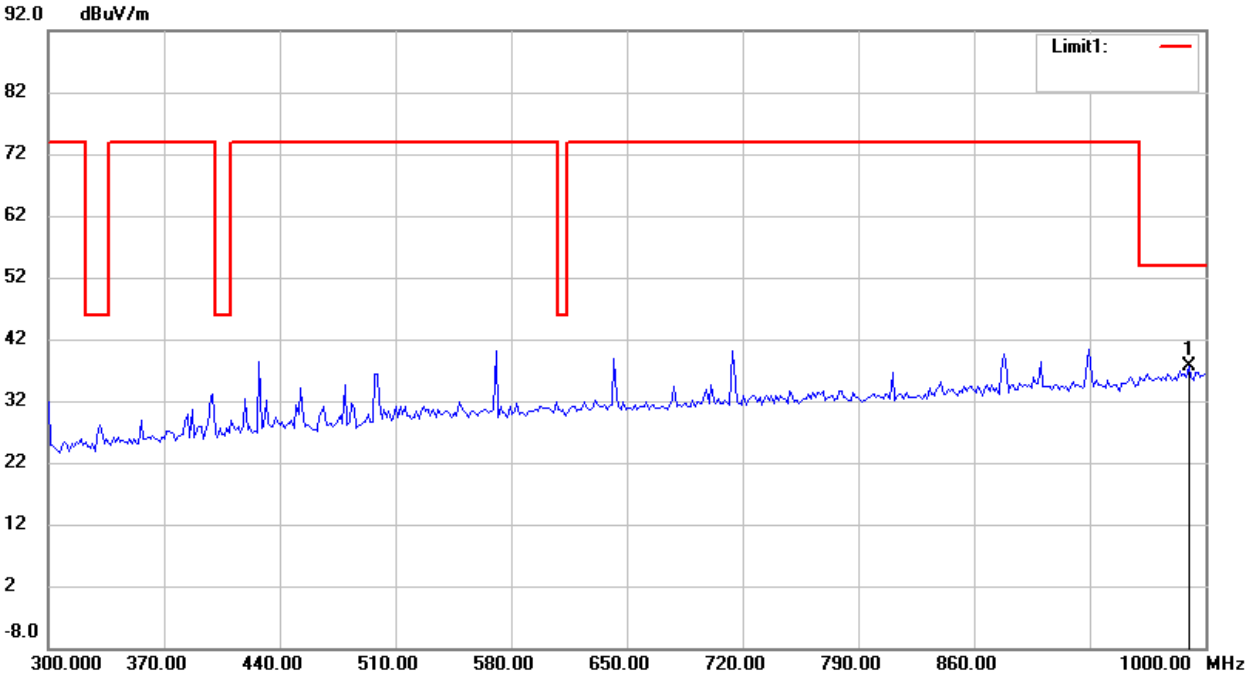
Registration number: W6M21008-10827-C-1
FCC ID: JCK-T1125

WLAN 11G-2462 MHz
Antenna Polarization H





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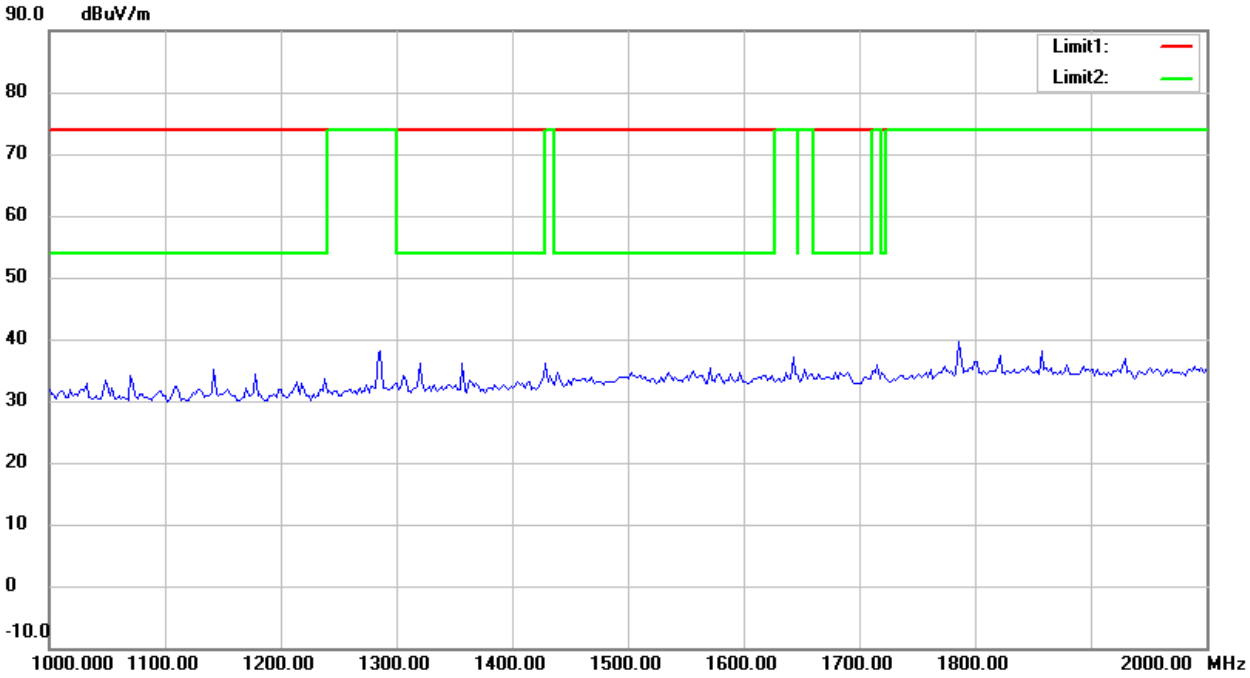

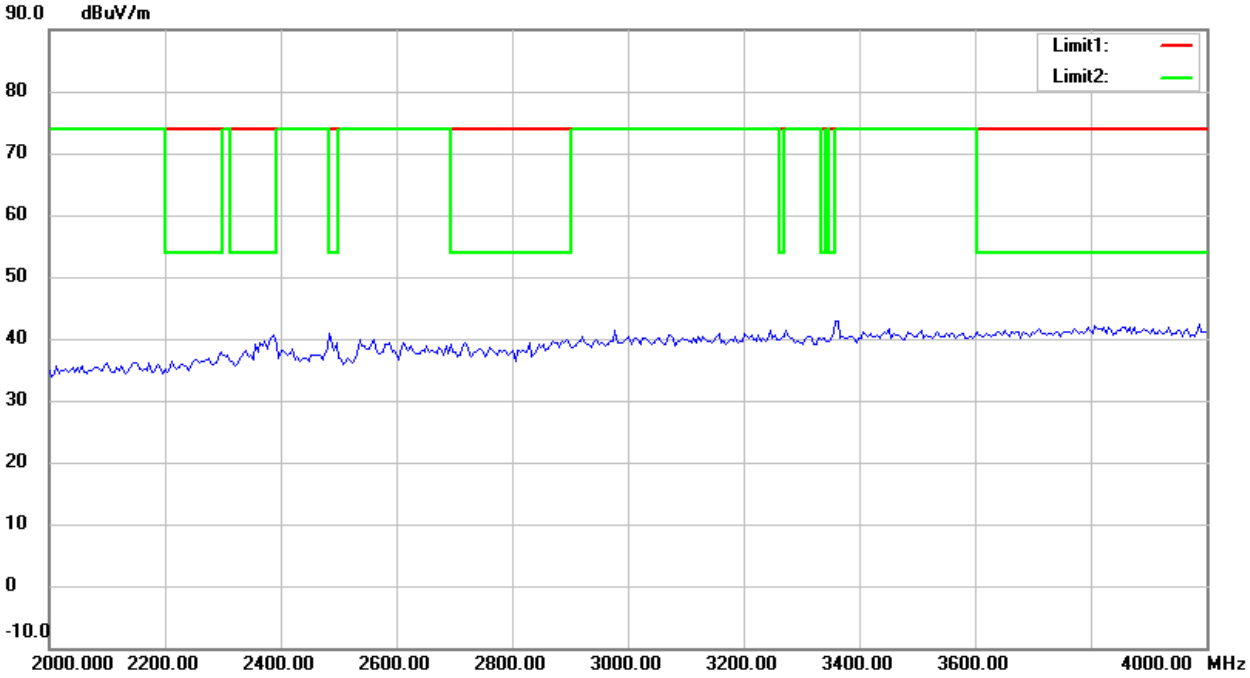

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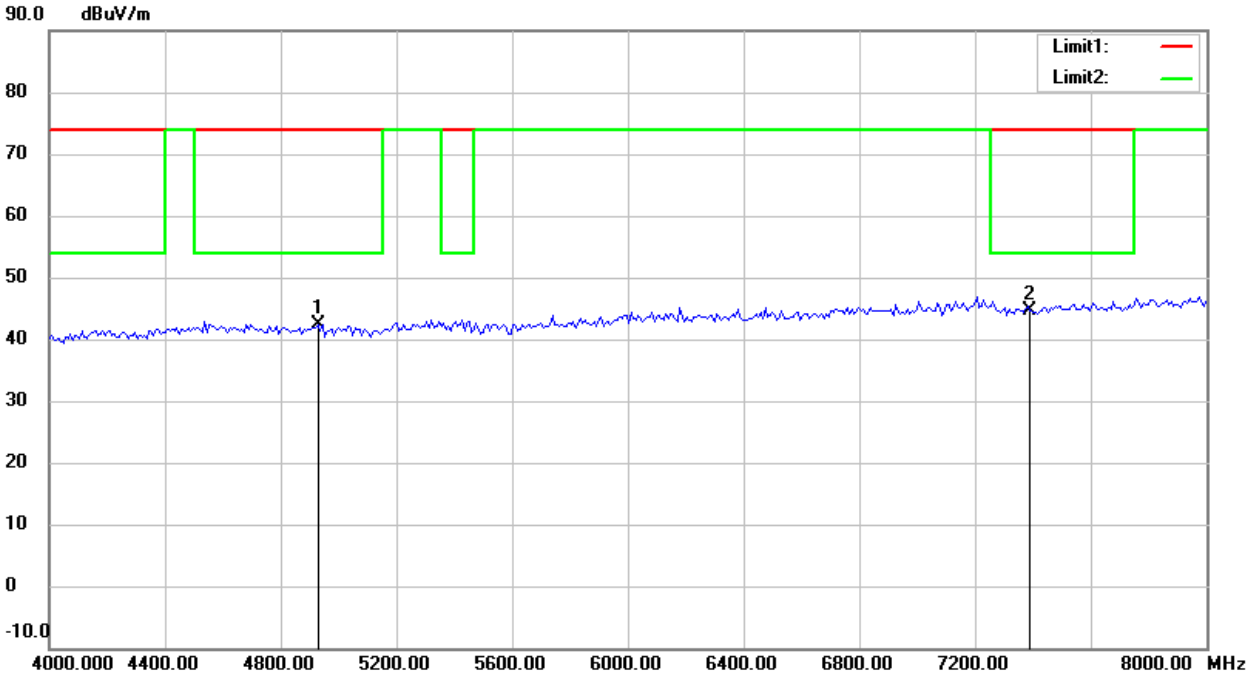

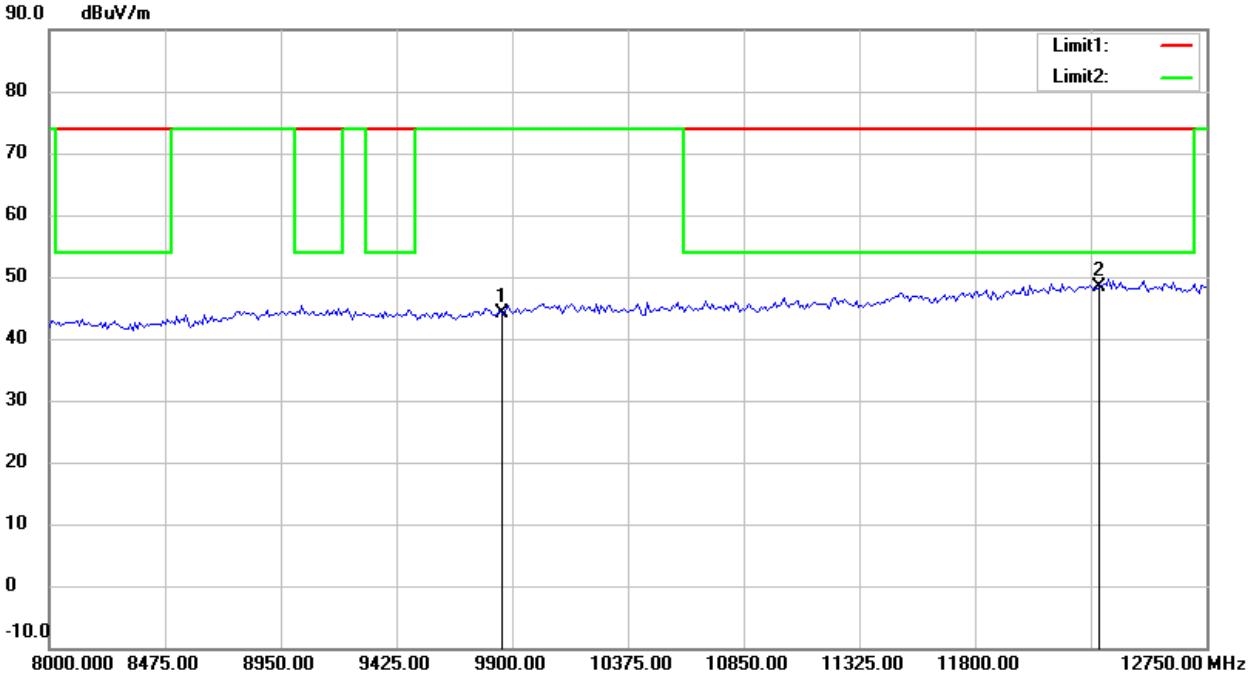

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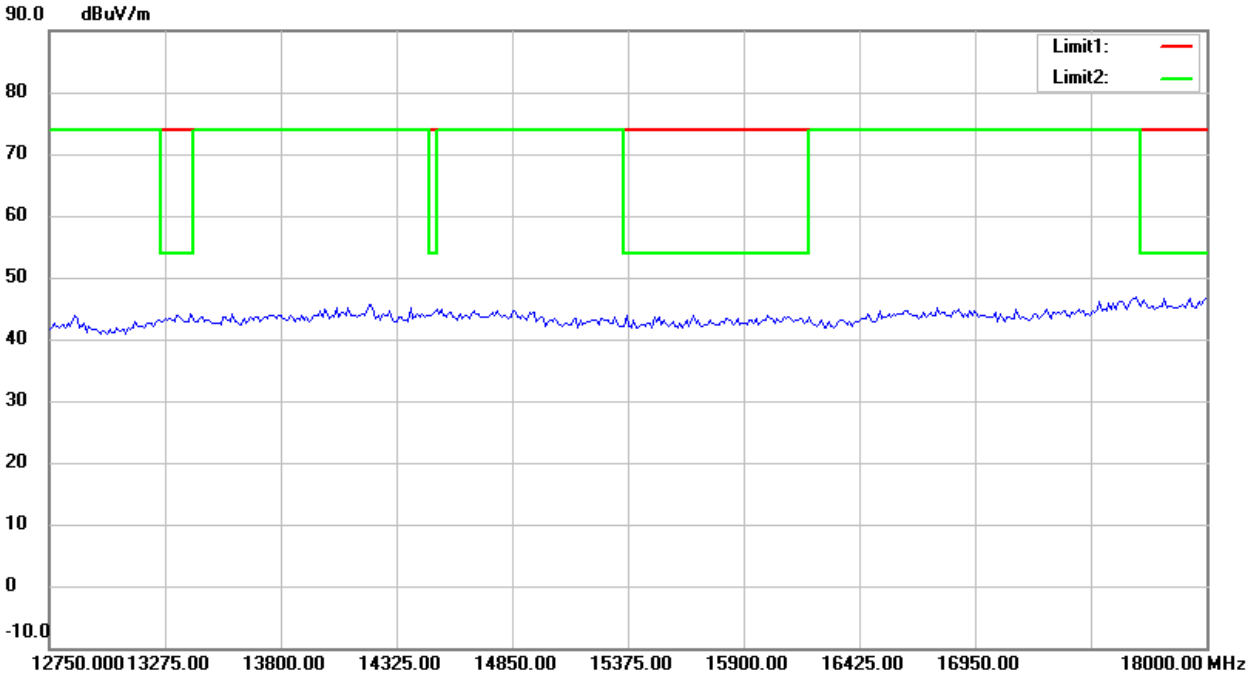

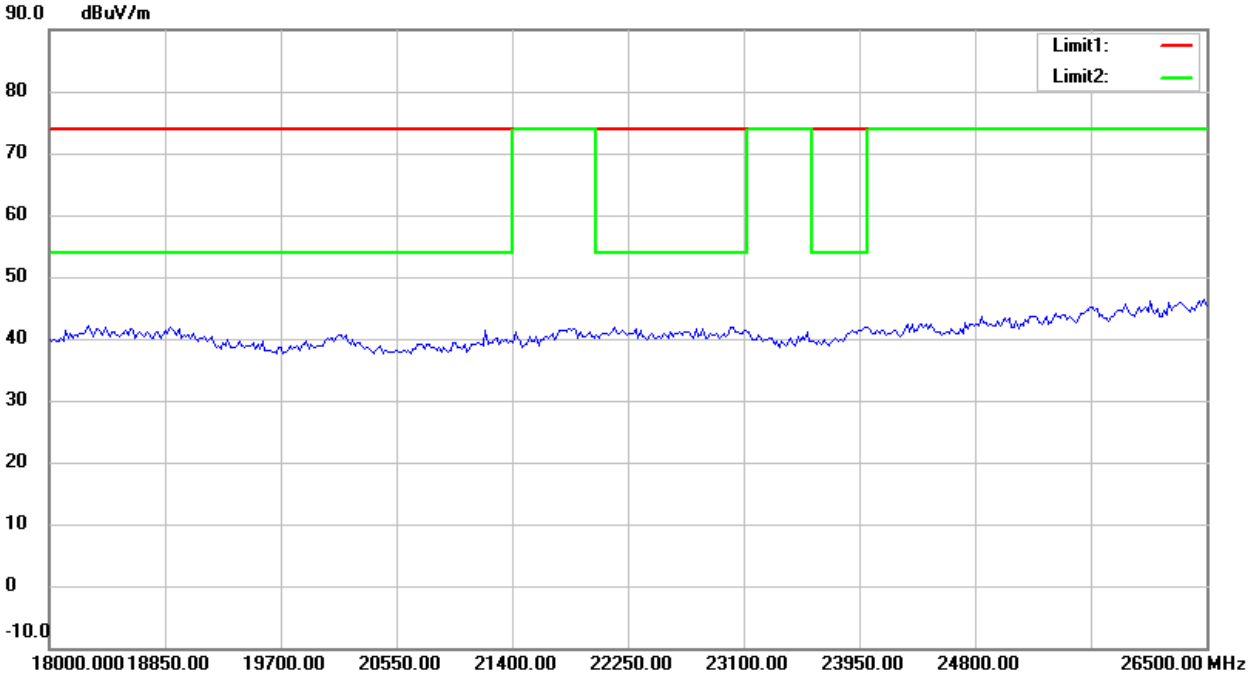

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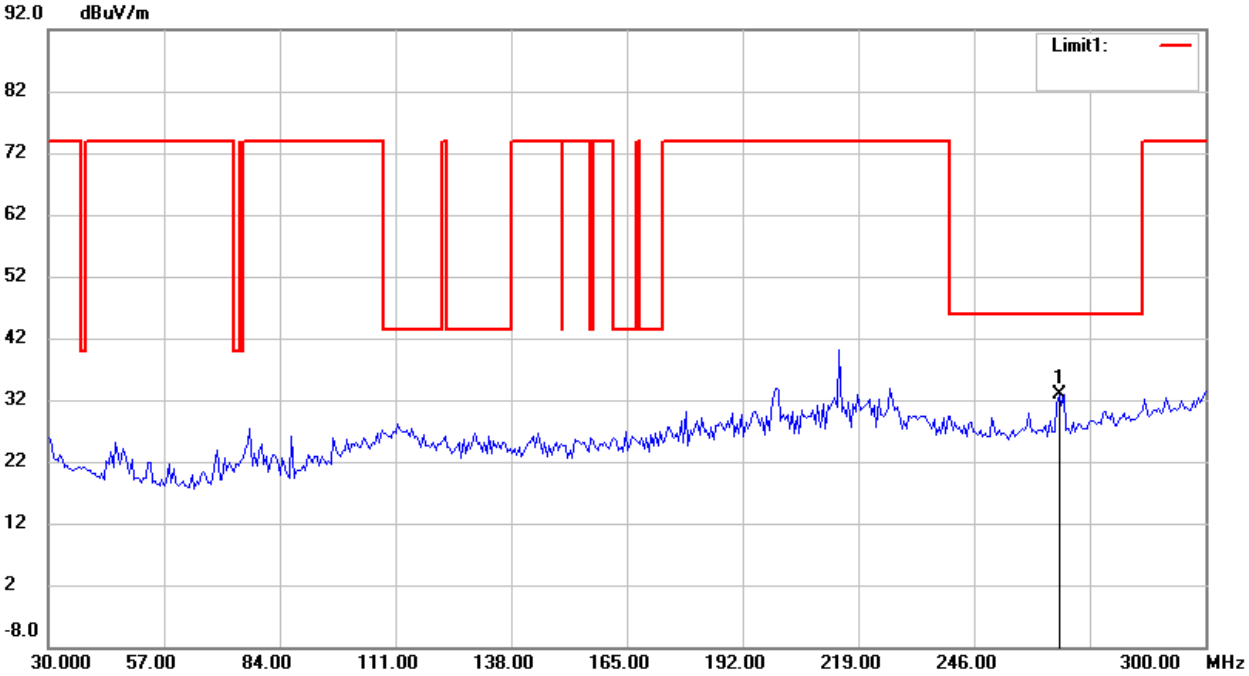
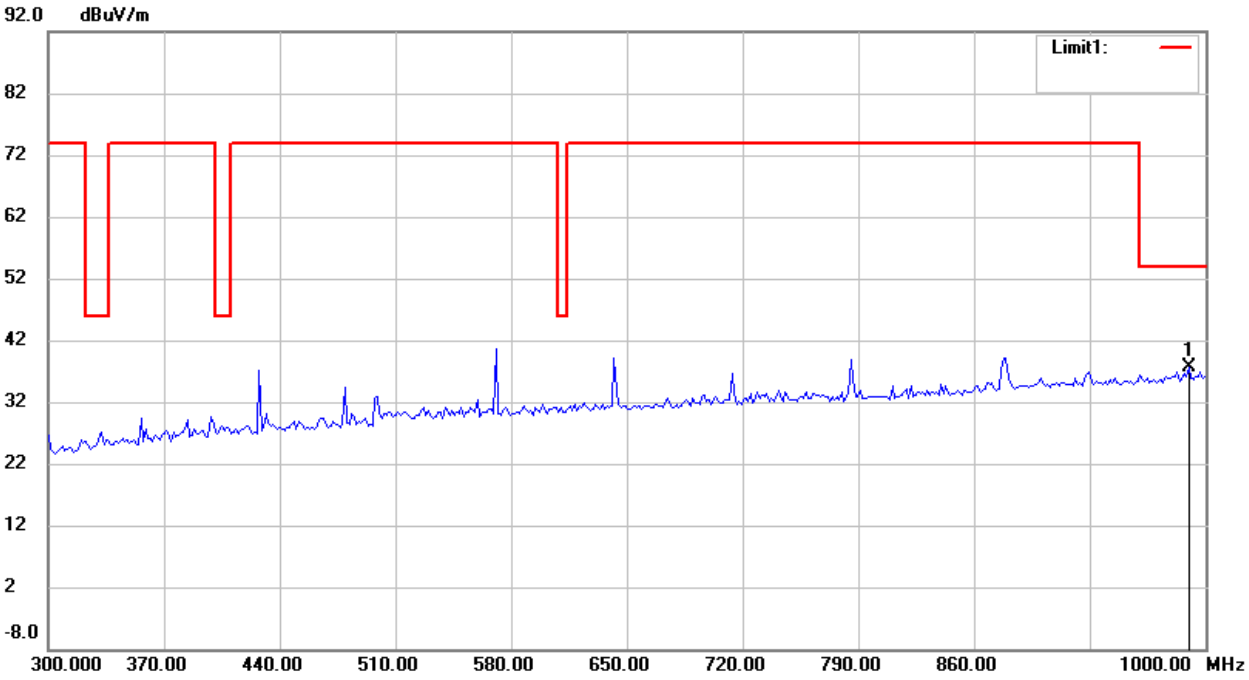
Registration number: W6M21008-10827-C-1
FCC ID: JCK-T1125

Antenna Polarization V





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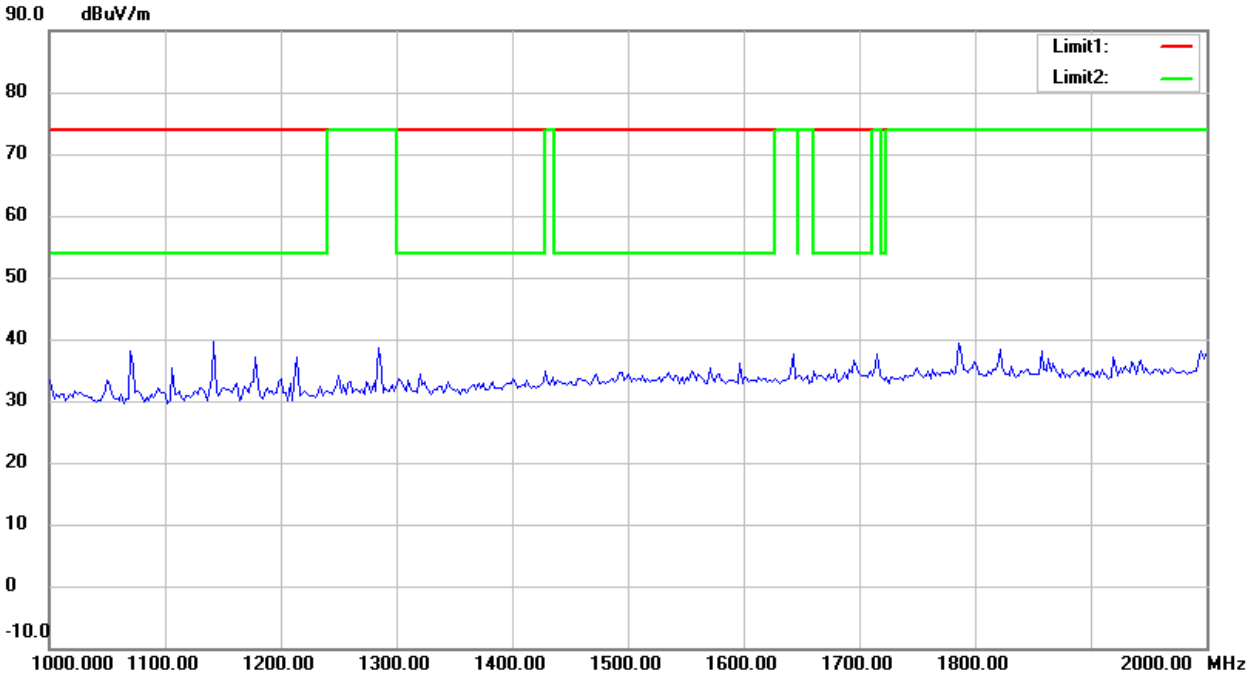

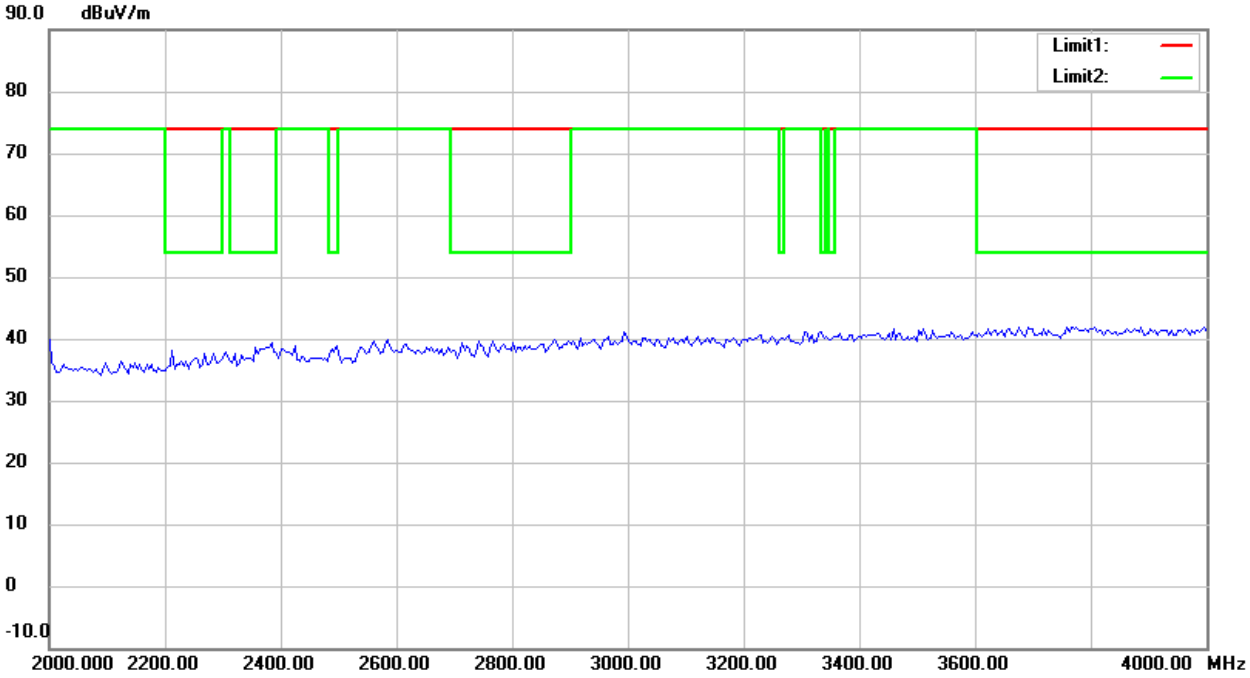

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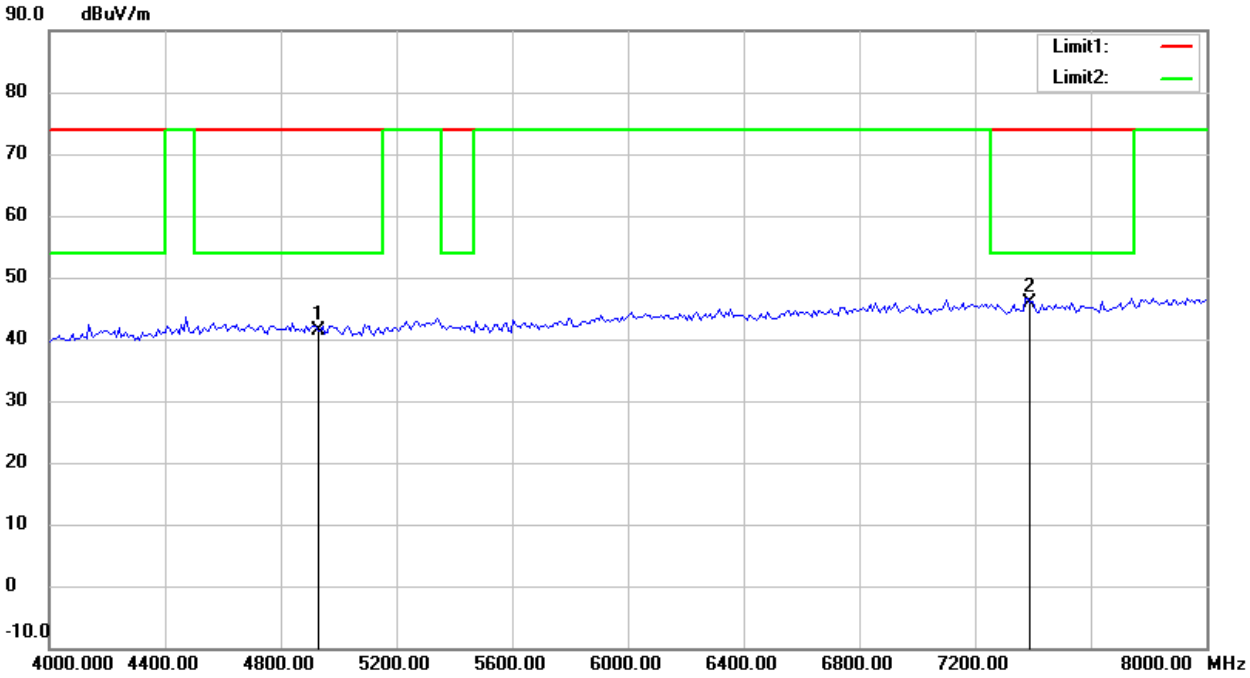

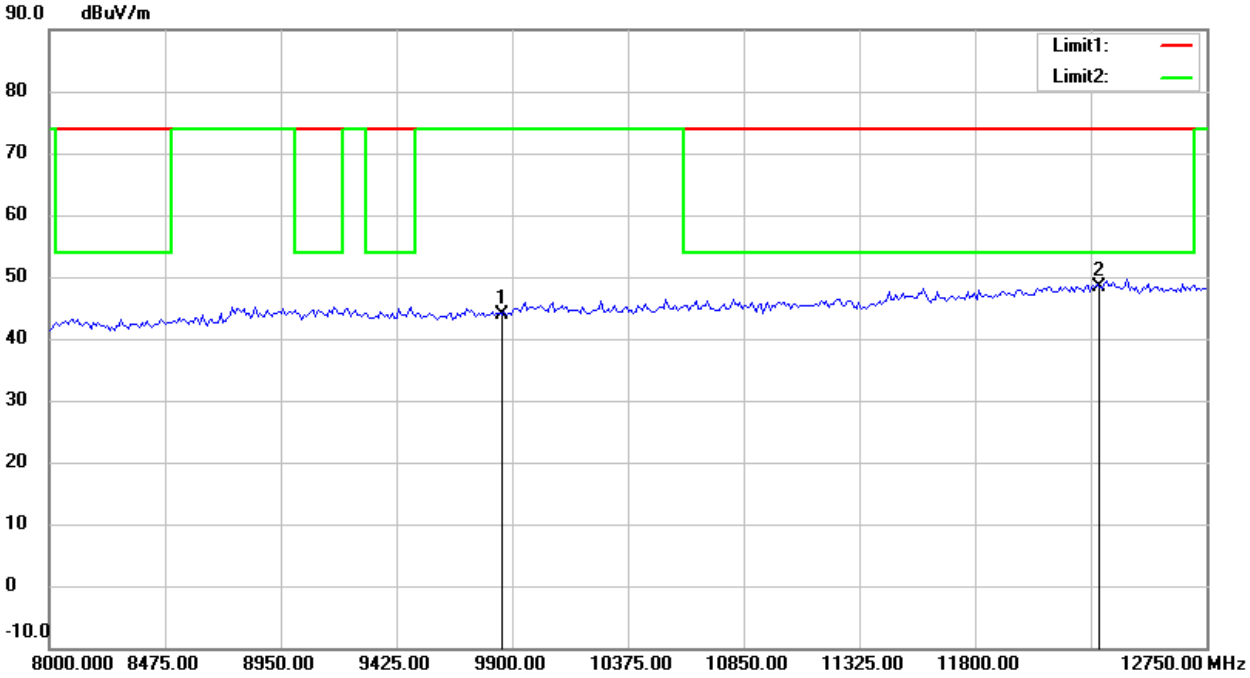

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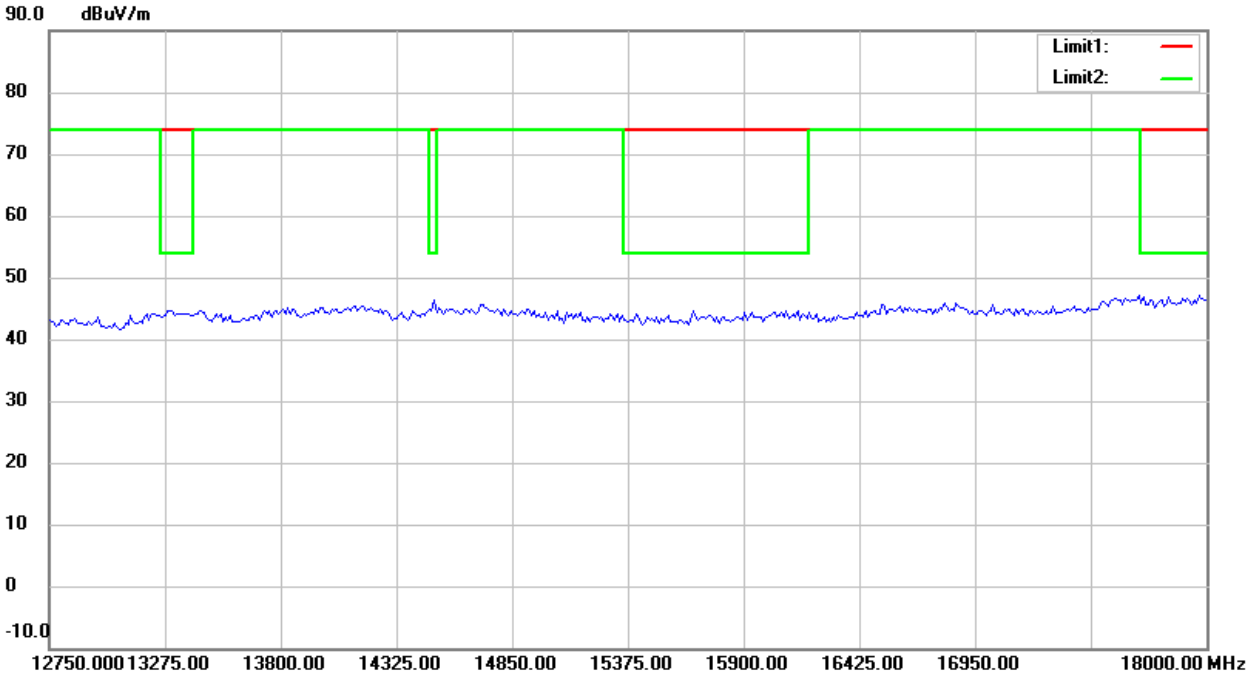

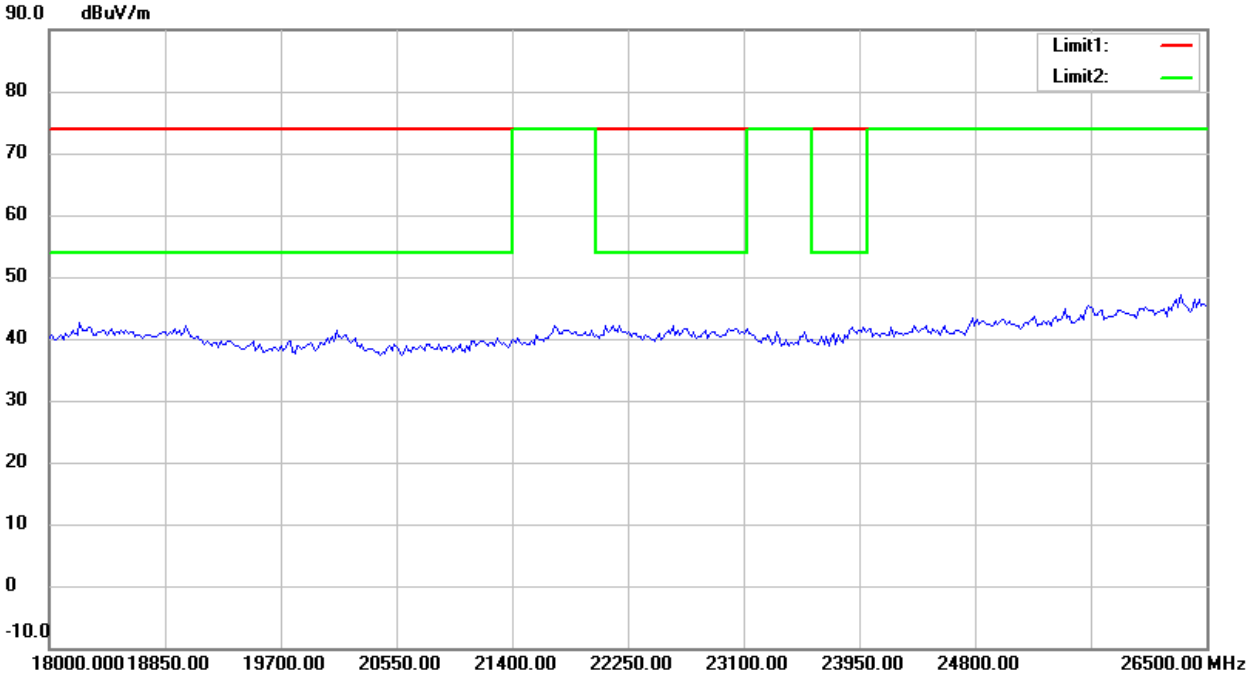

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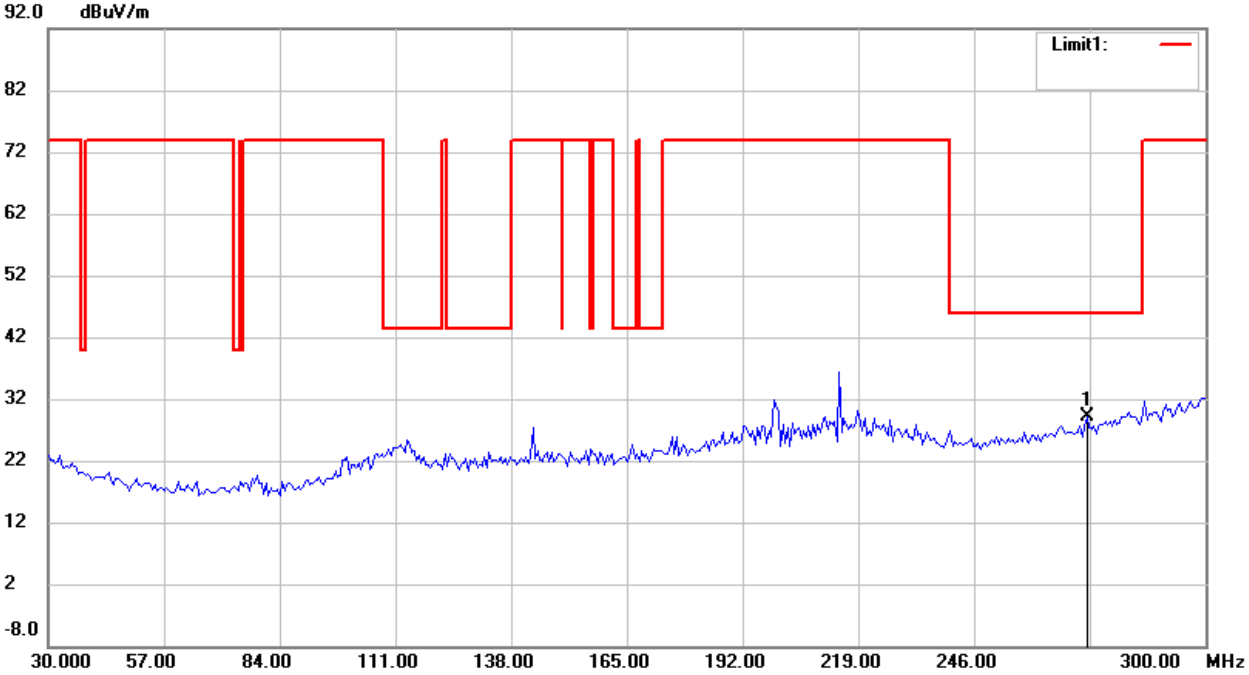
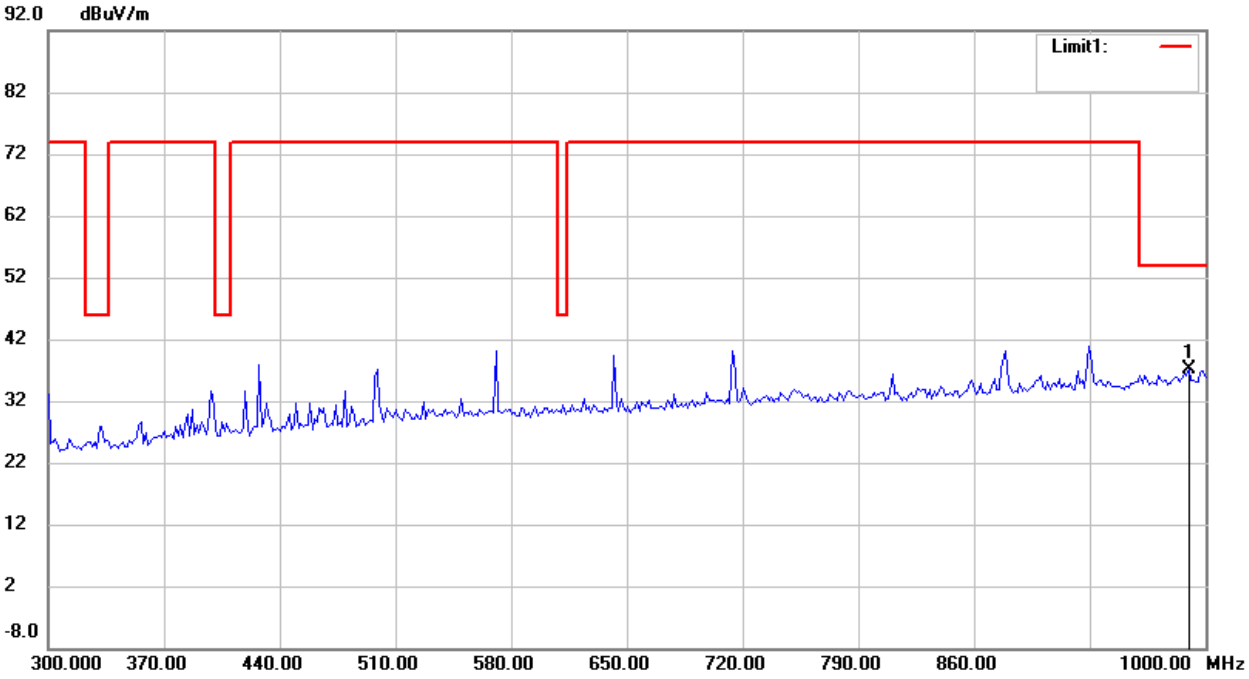
Registration number: W6M21008-10827-C-1
FCC ID: JCK-T1125

WLAN 11n20M-2412 MHz
Antenna Polarization H





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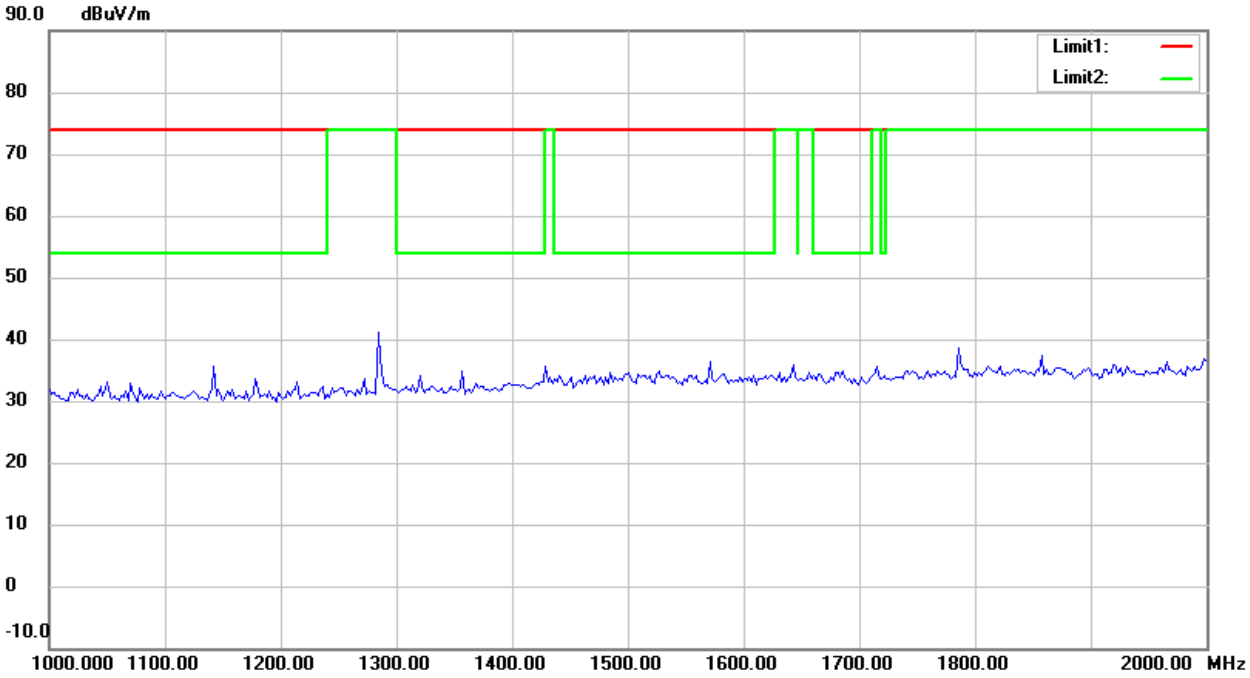

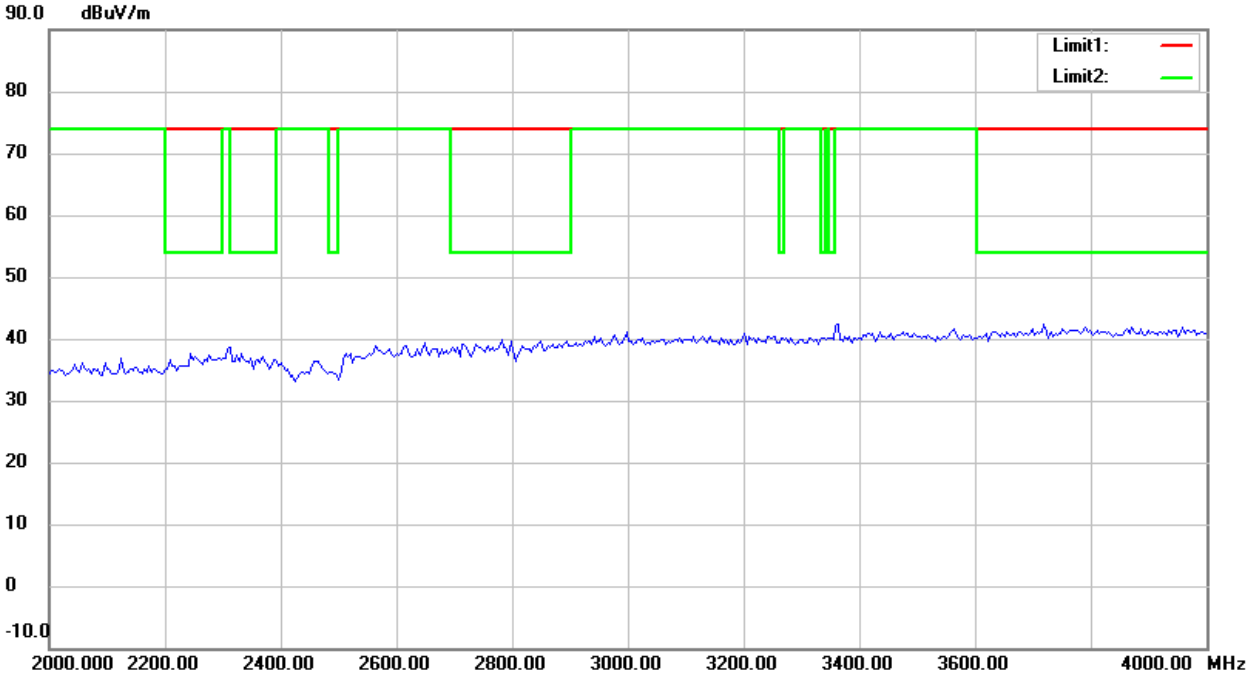

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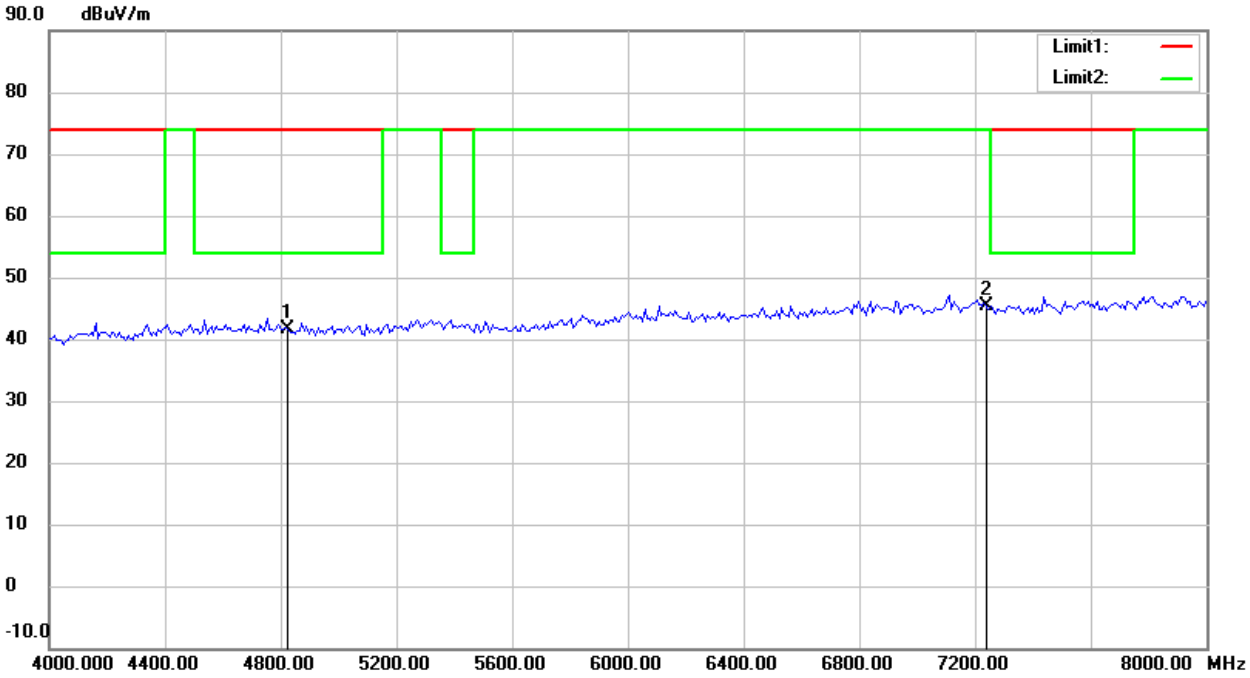

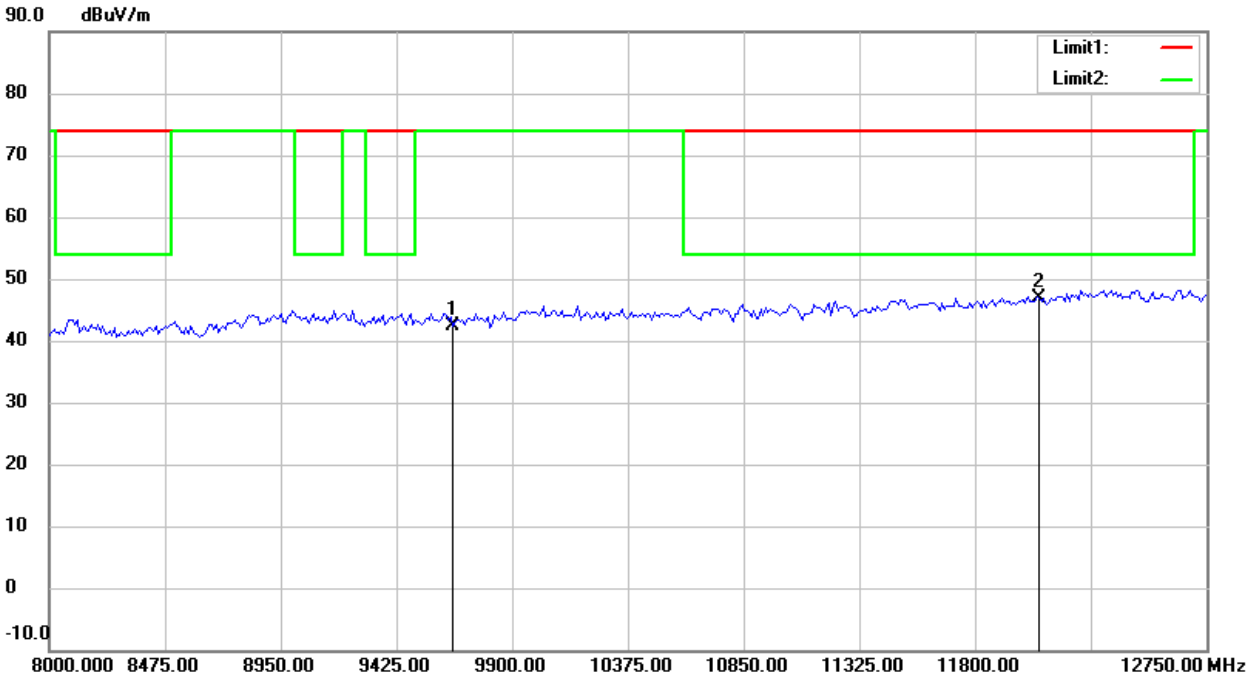

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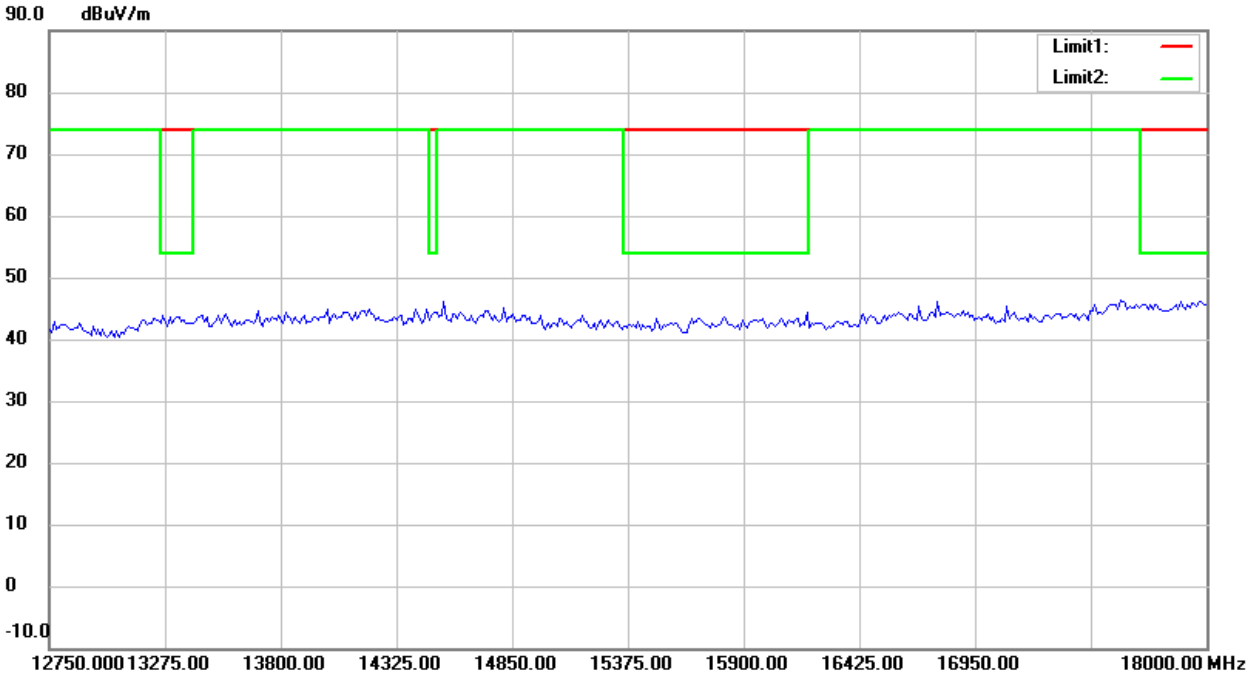
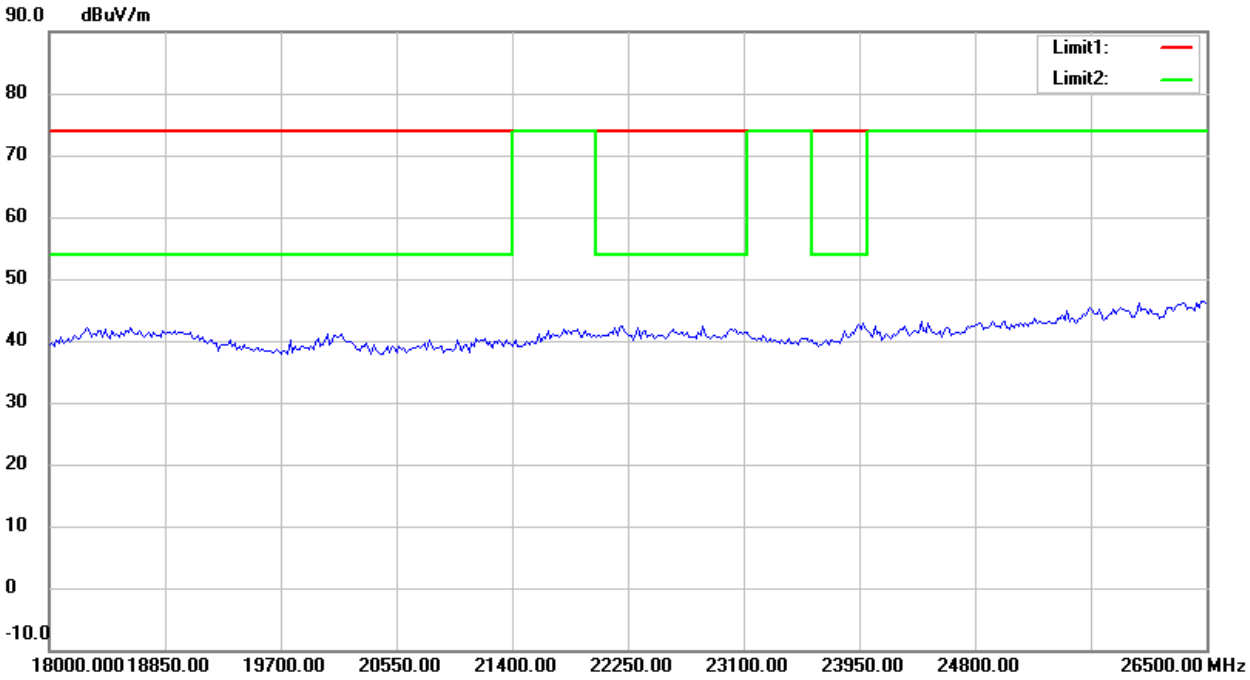


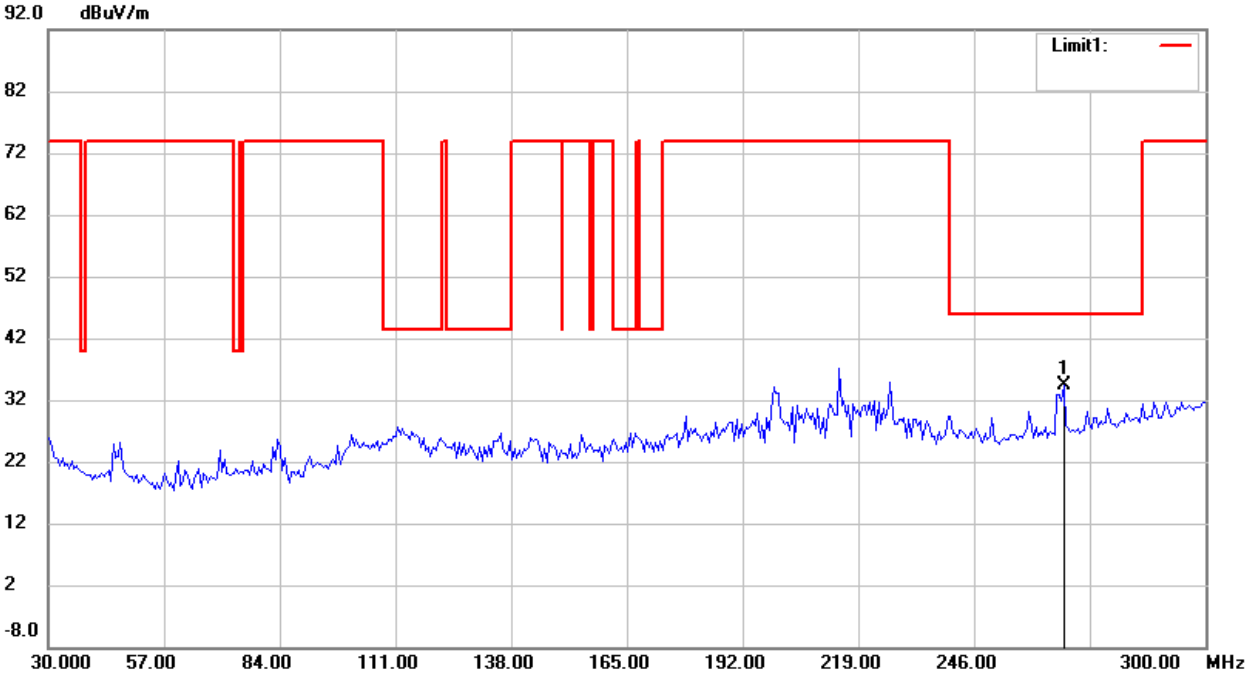


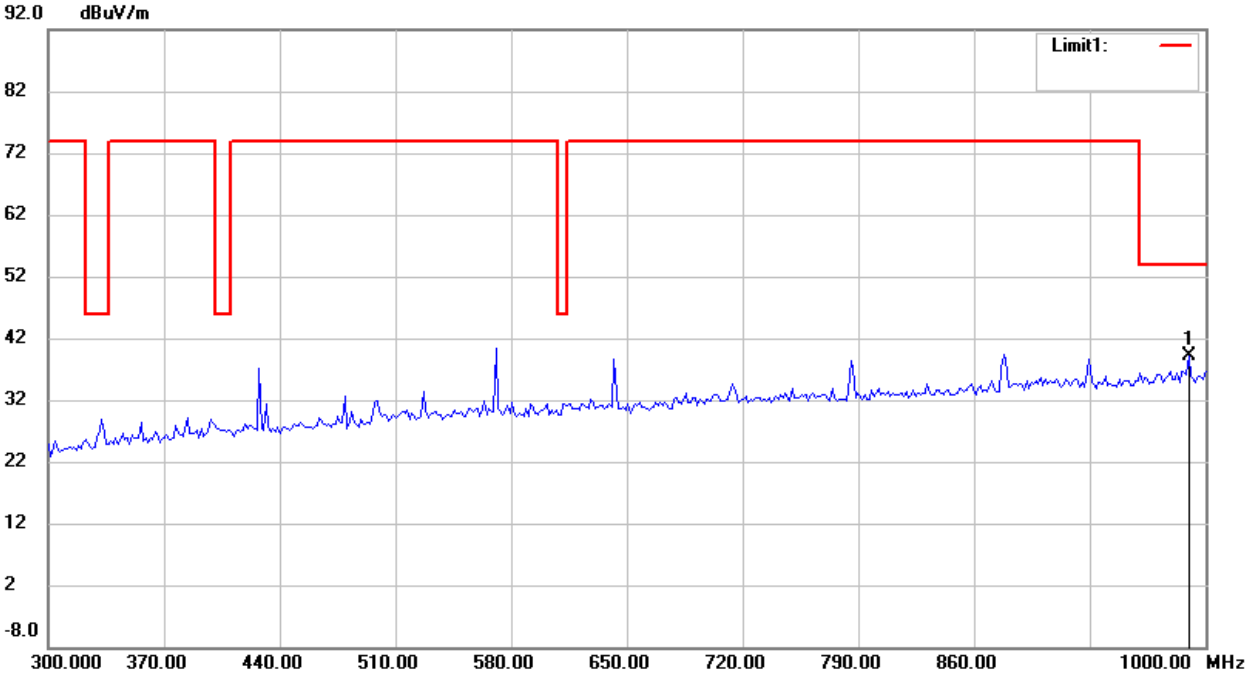
Note:
Up Line: Peak Limit Line Down Line: Ave Limit Line

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: W6M21008-10827-C-1
FCC ID: JCK-T1125

Antenna Polarization V





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

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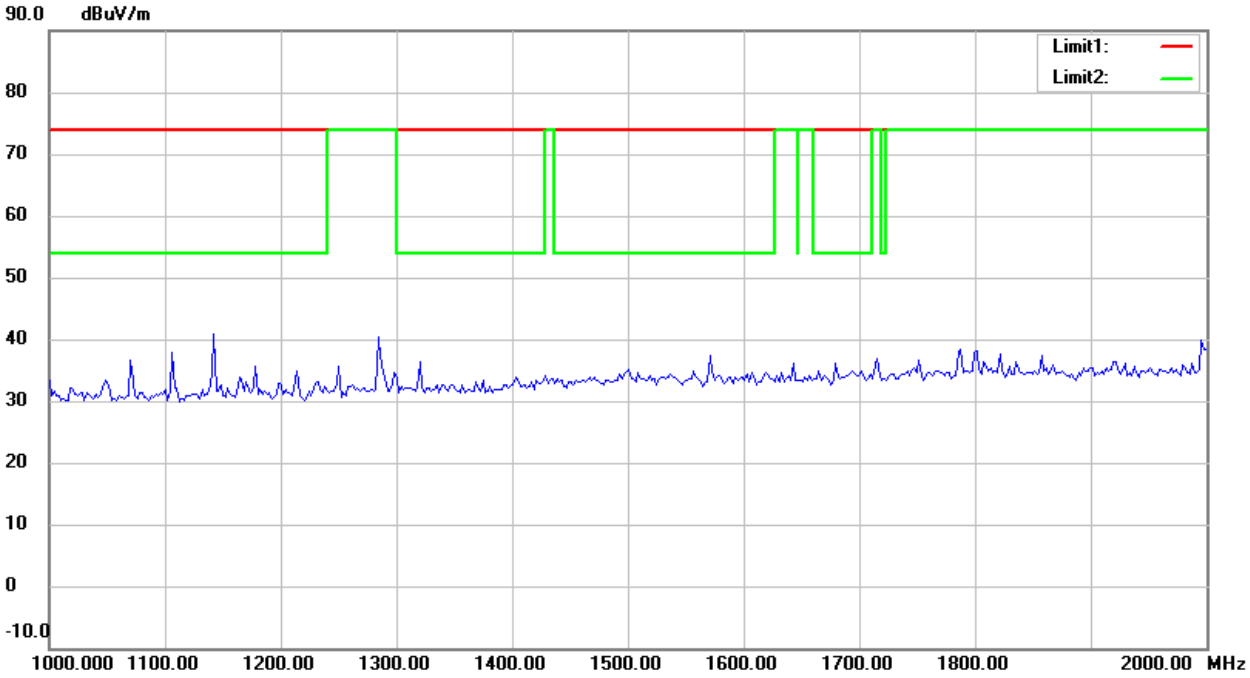

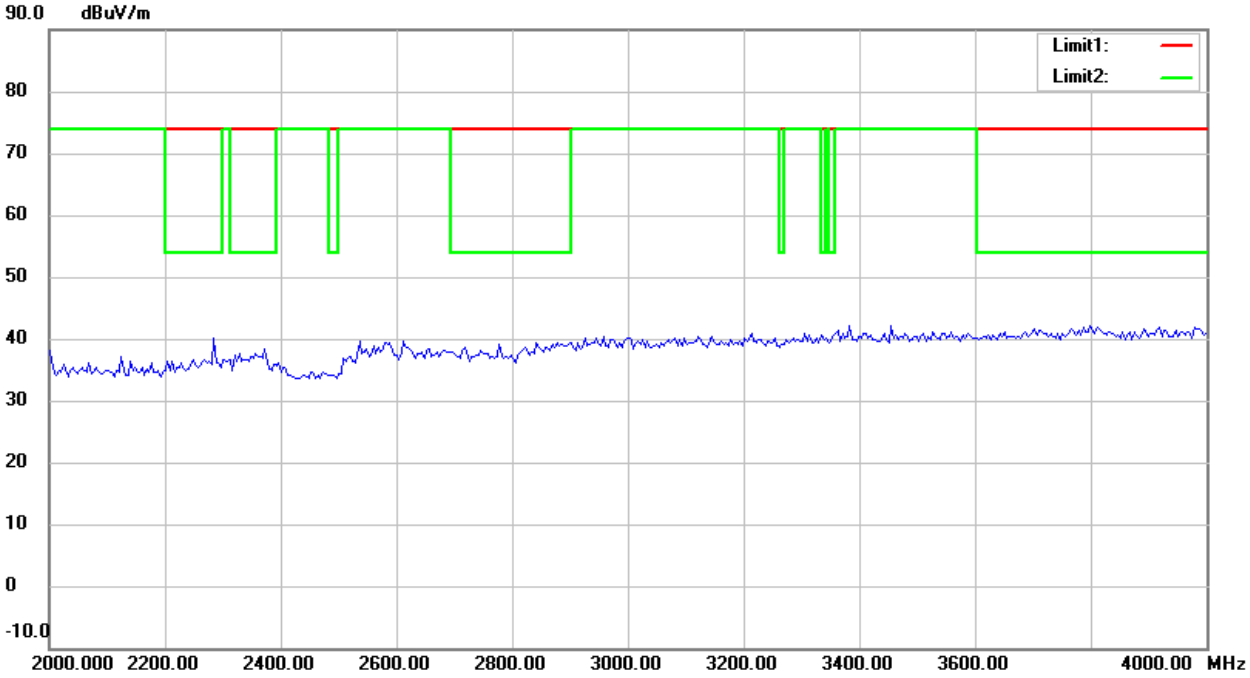

Note:
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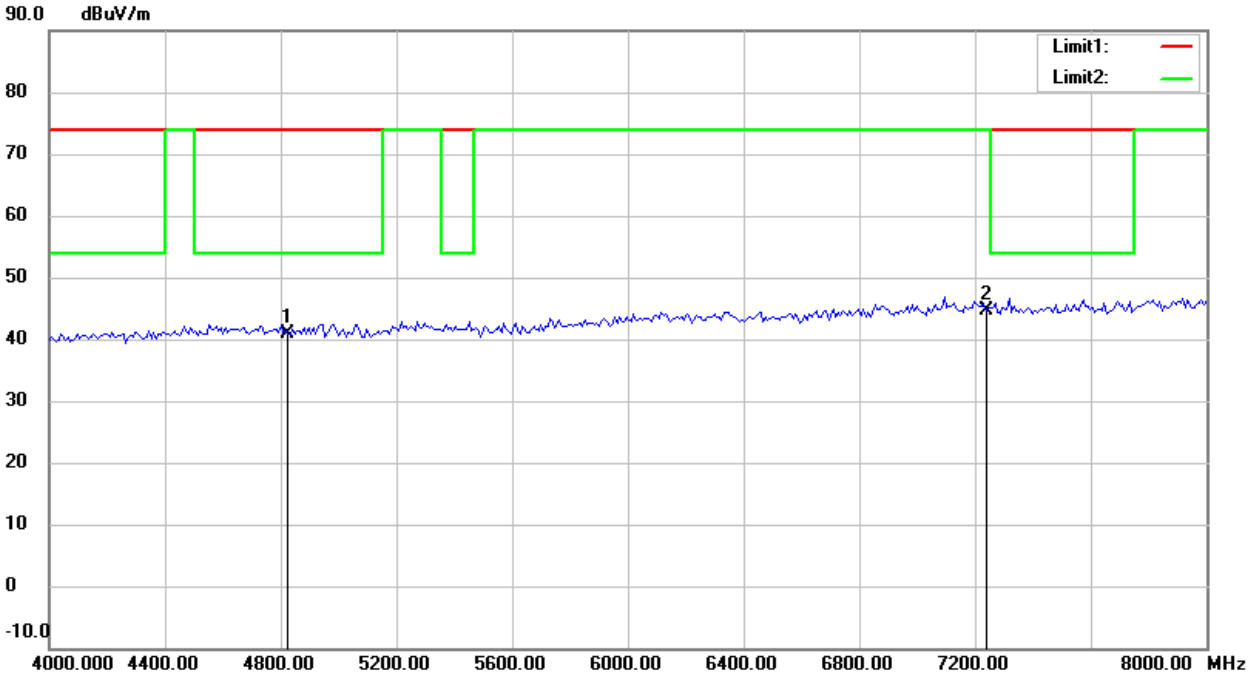

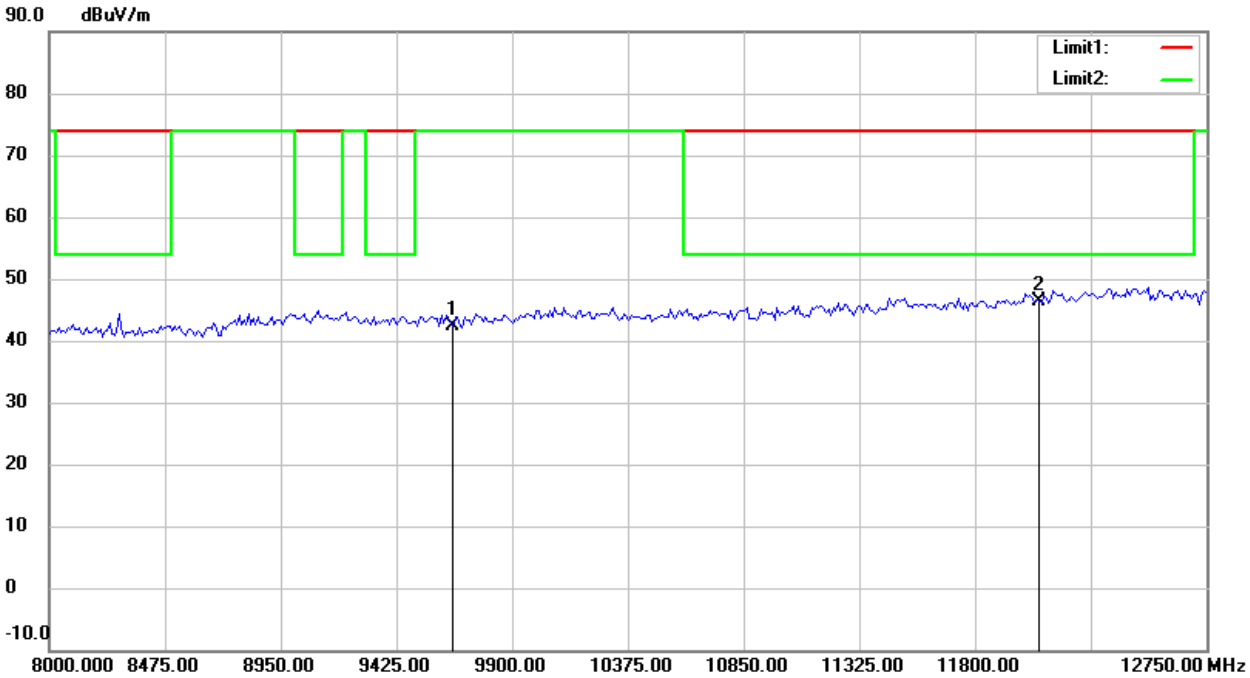

Note:
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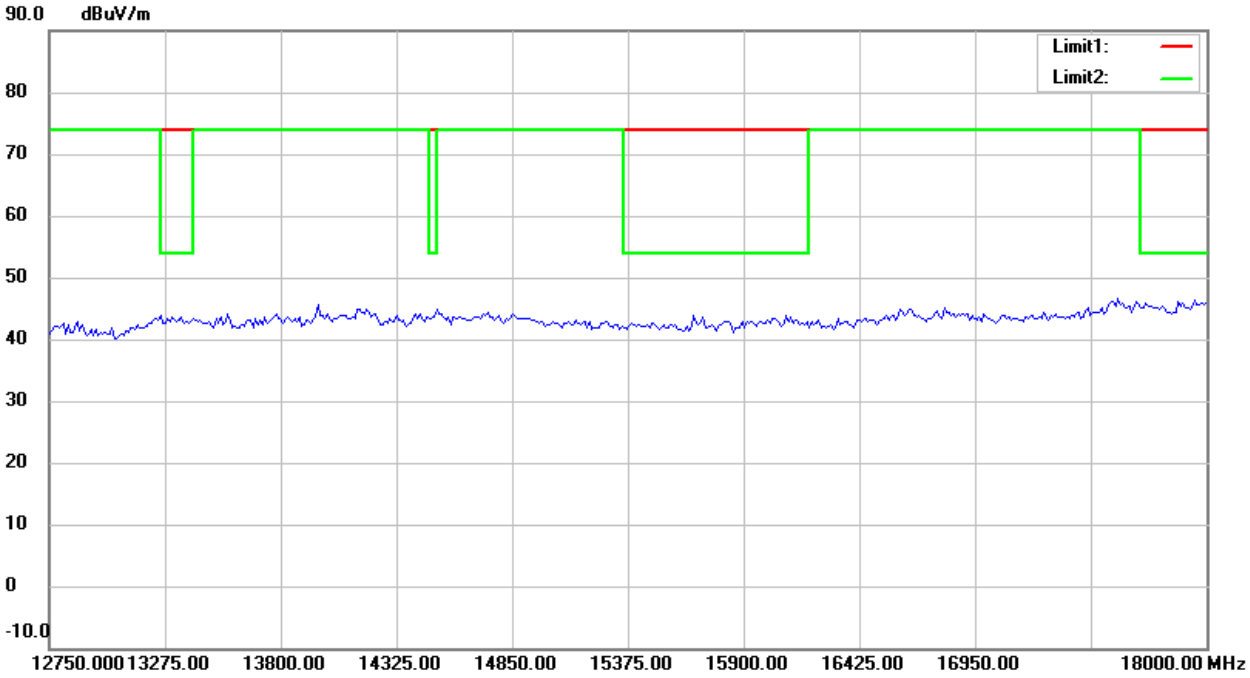

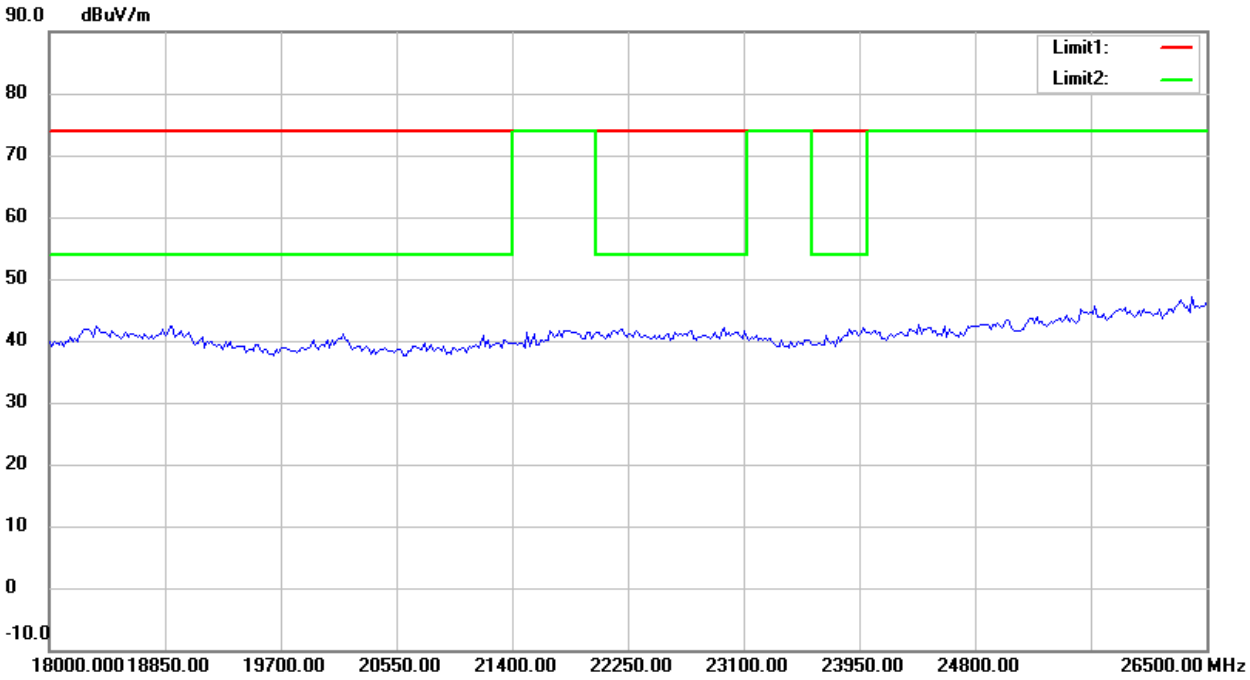

Note:
Up Line: Peak Limit Line Down Line: Ave Limit Line

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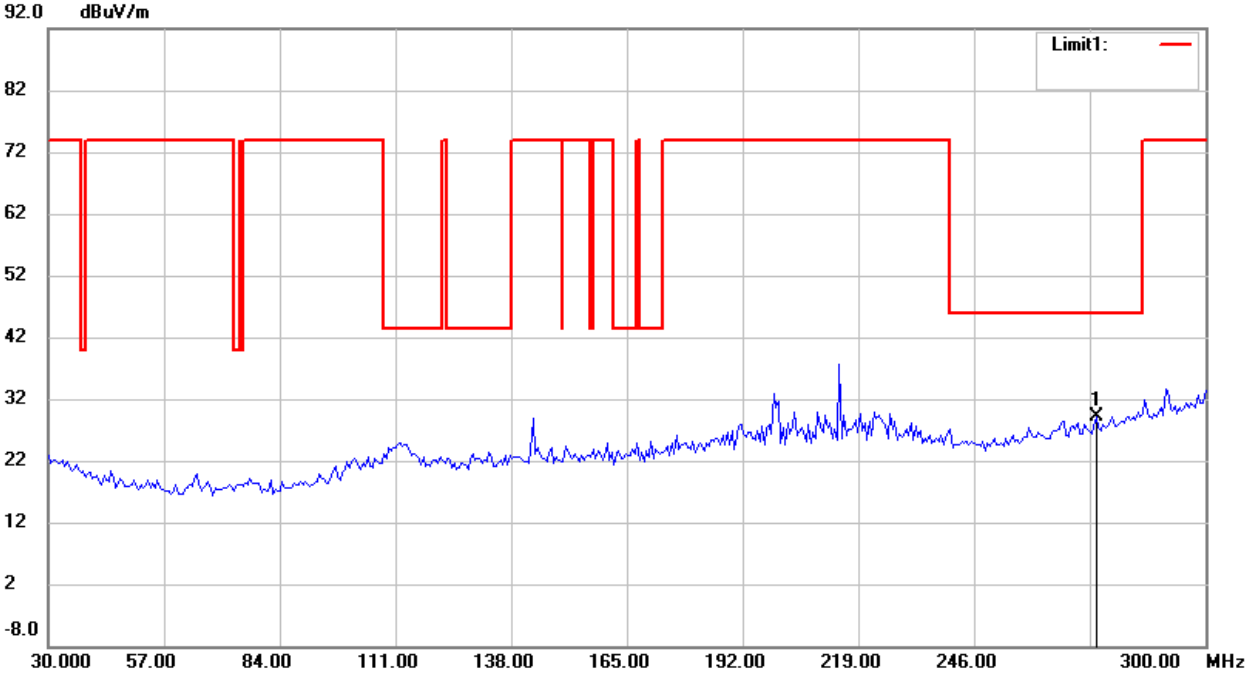
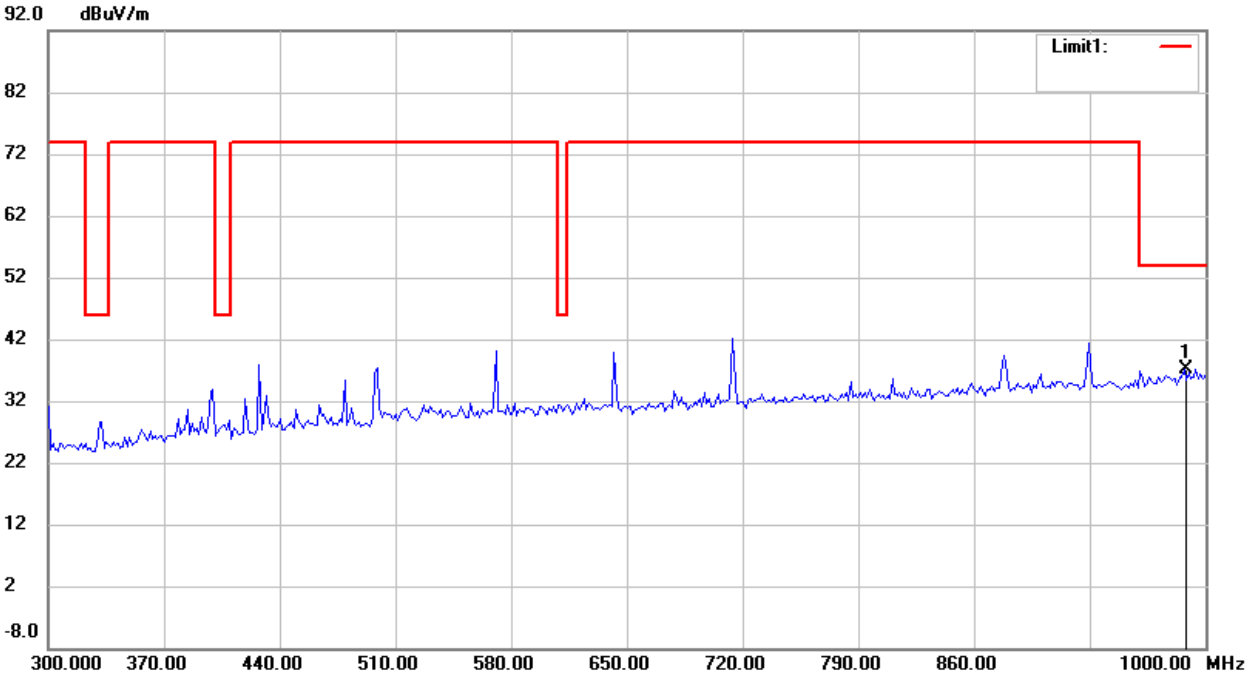
Registration number: W6M21008-10827-C-1
FCC ID: JCK-T1125

WLAN 11n20M-2437 MHz
Antenna Polarization H





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

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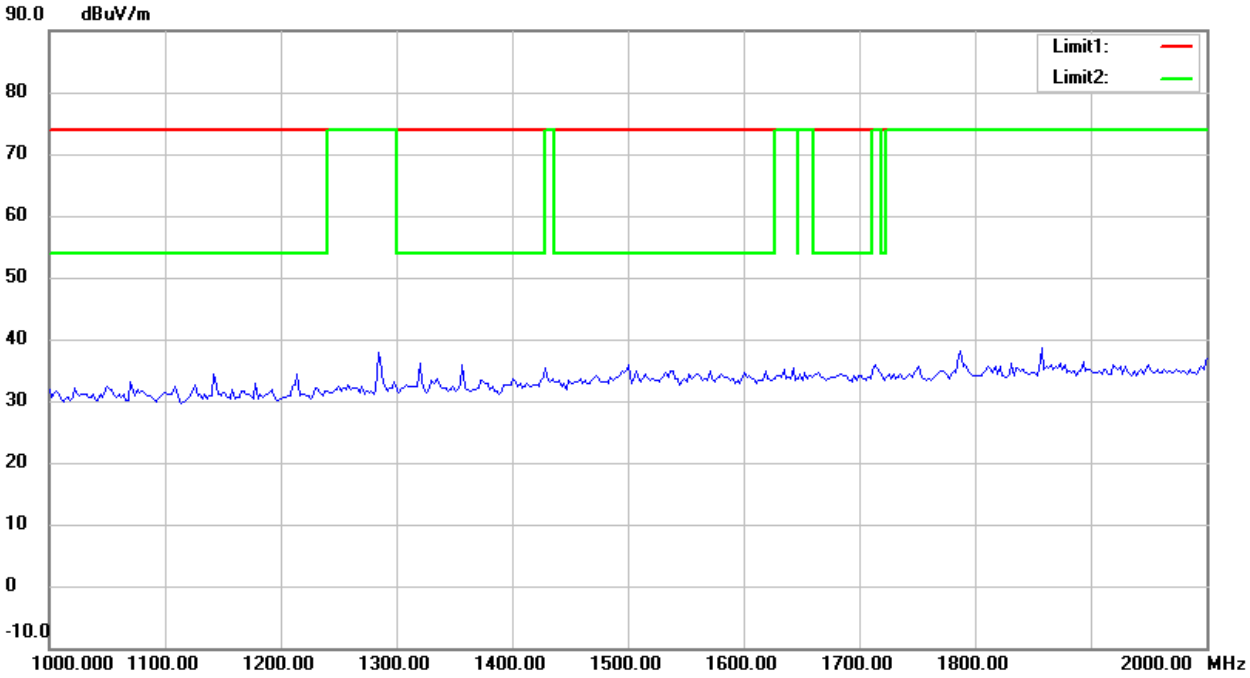

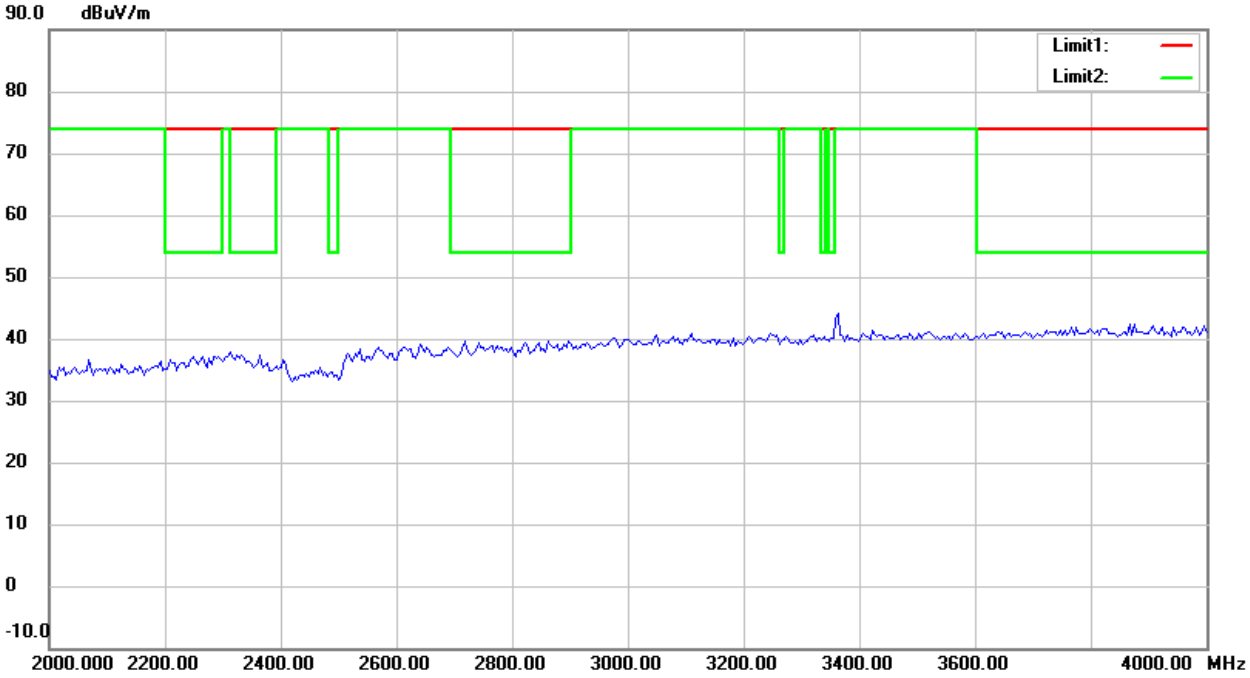

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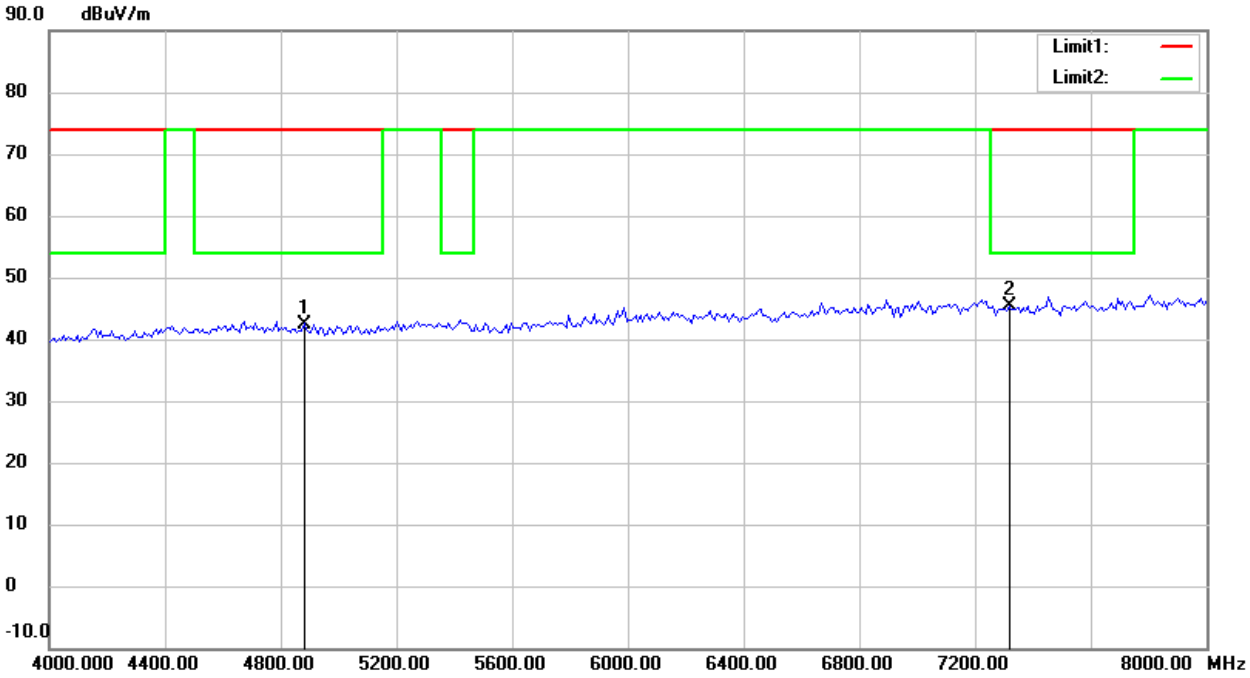

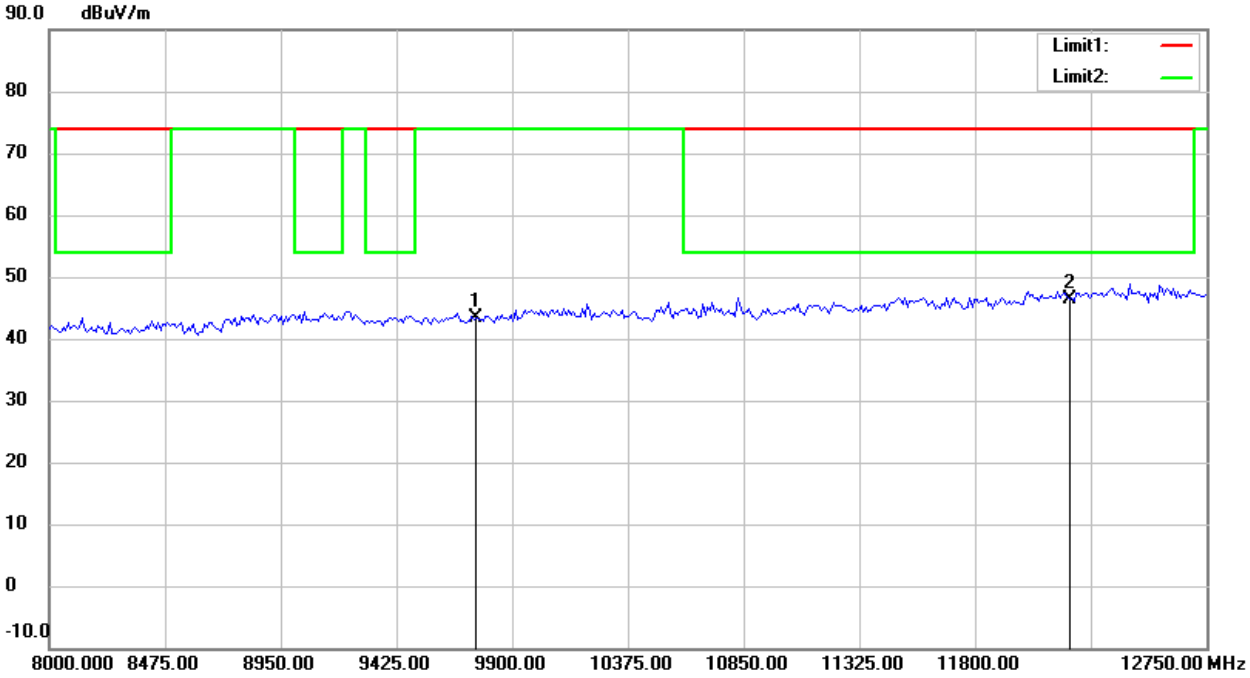

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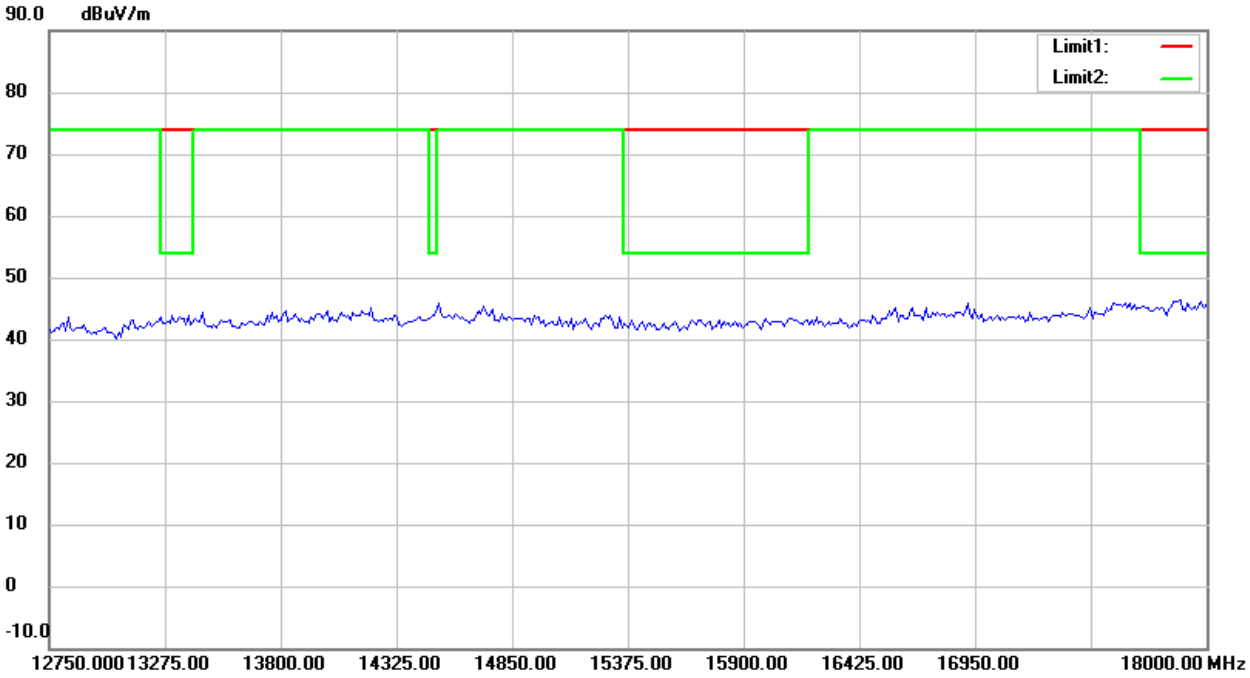

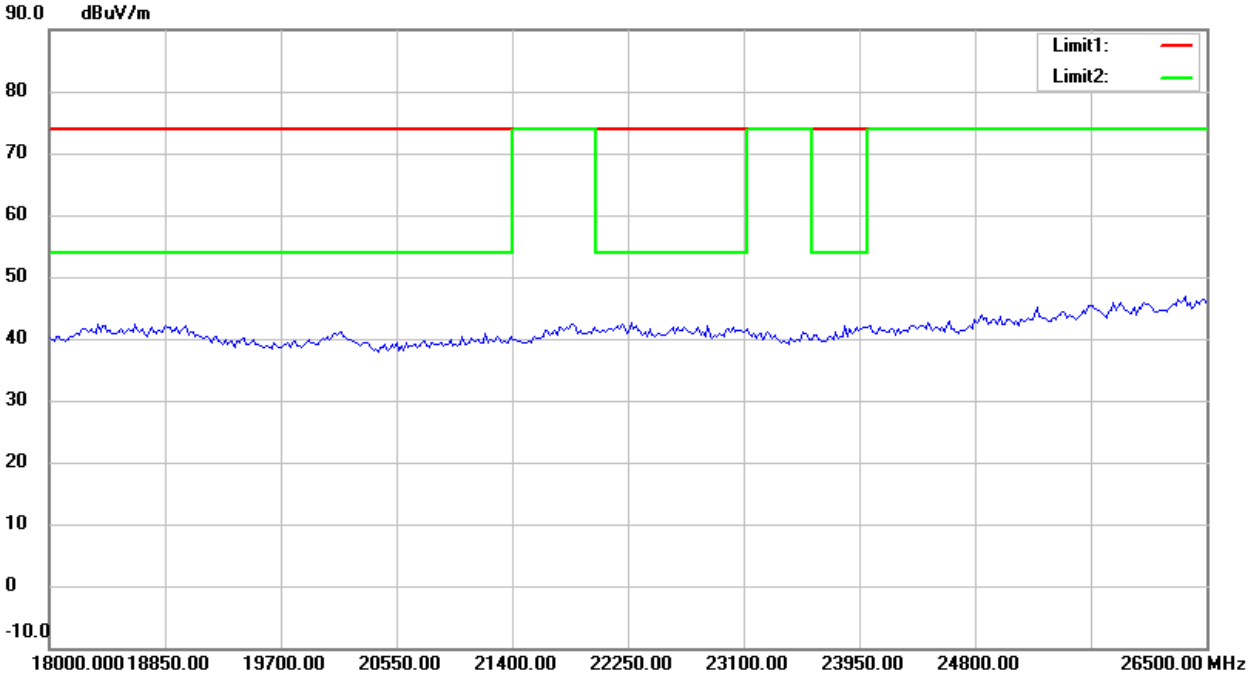

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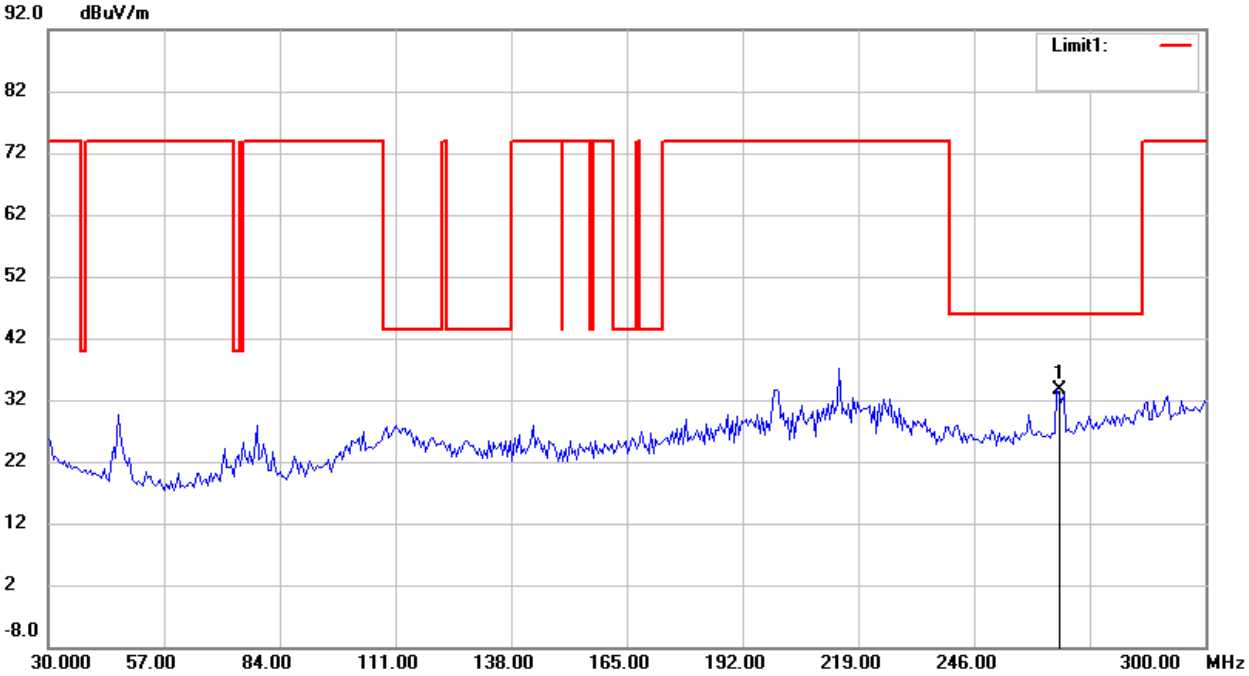
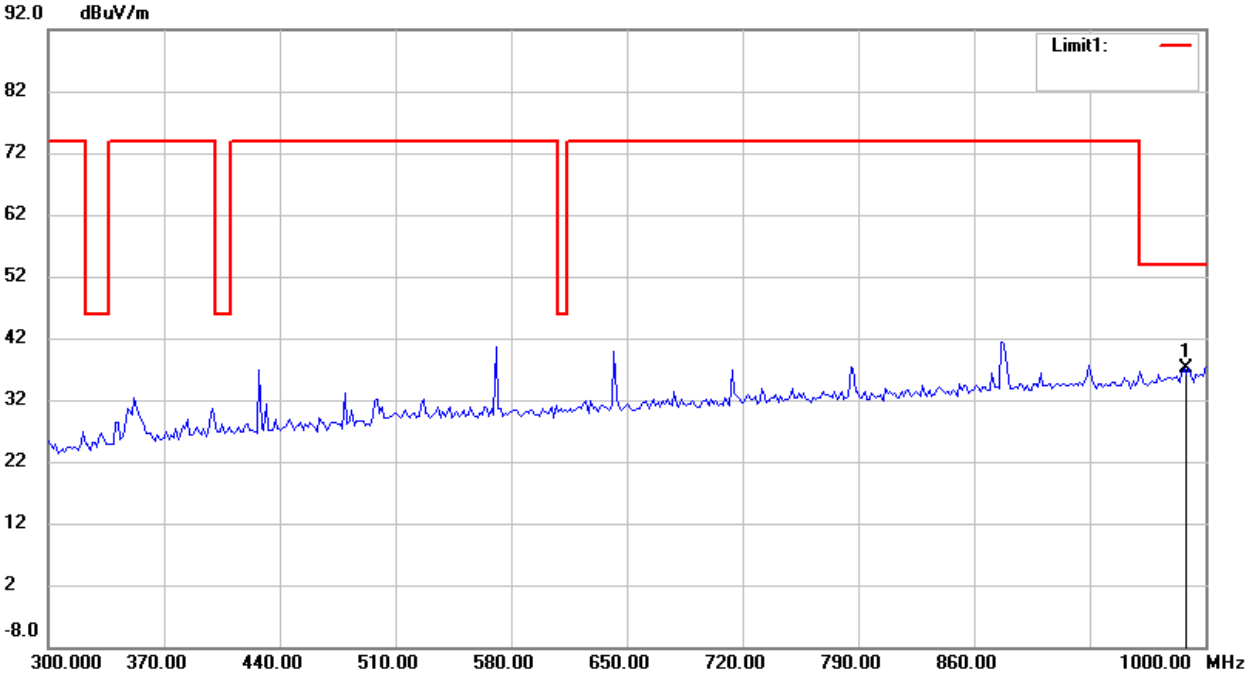
Antenna Polarization V





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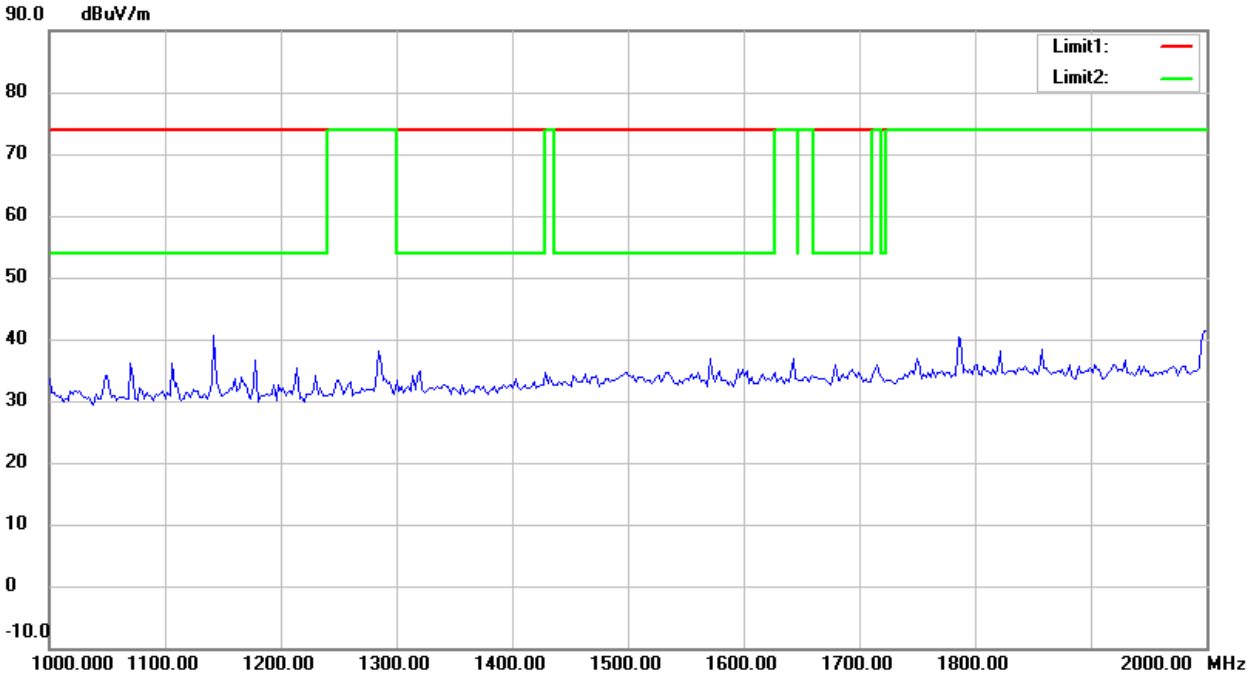

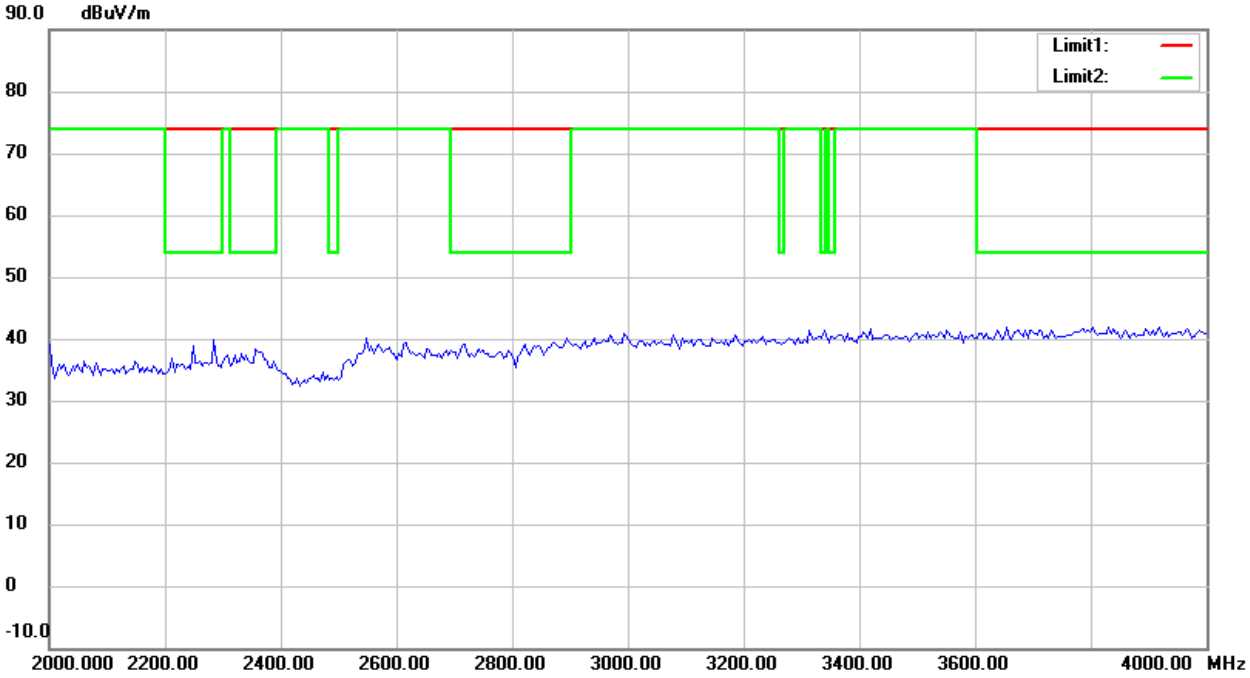

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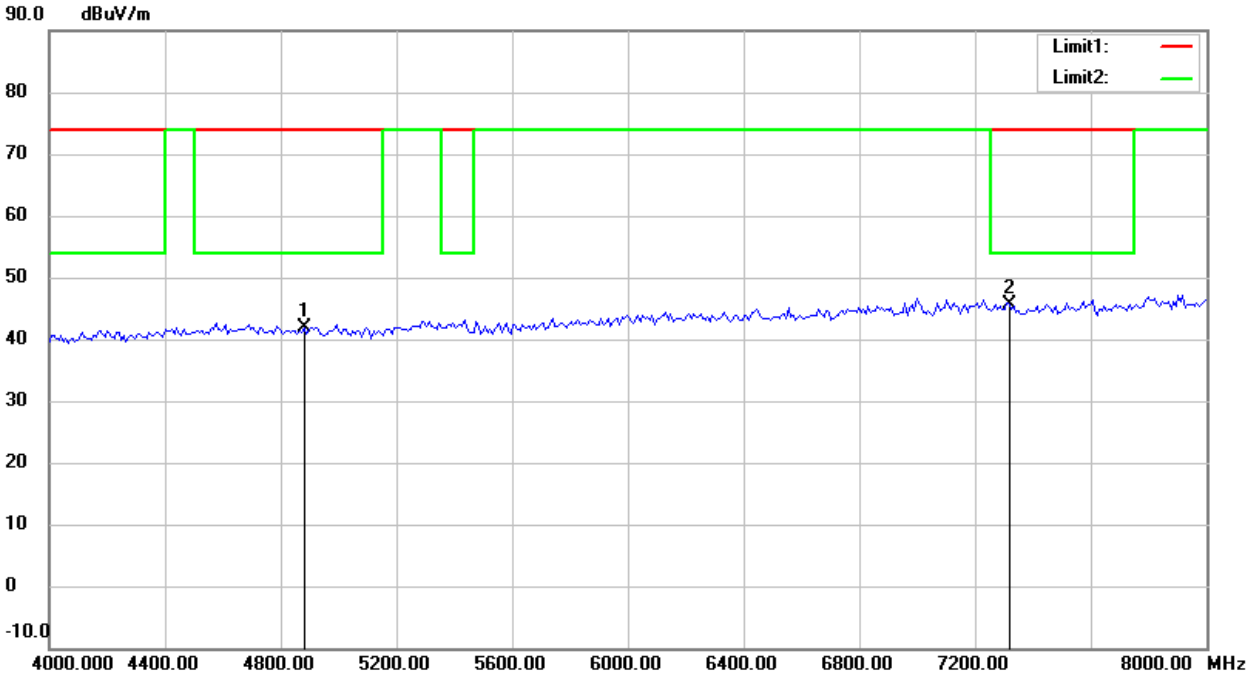

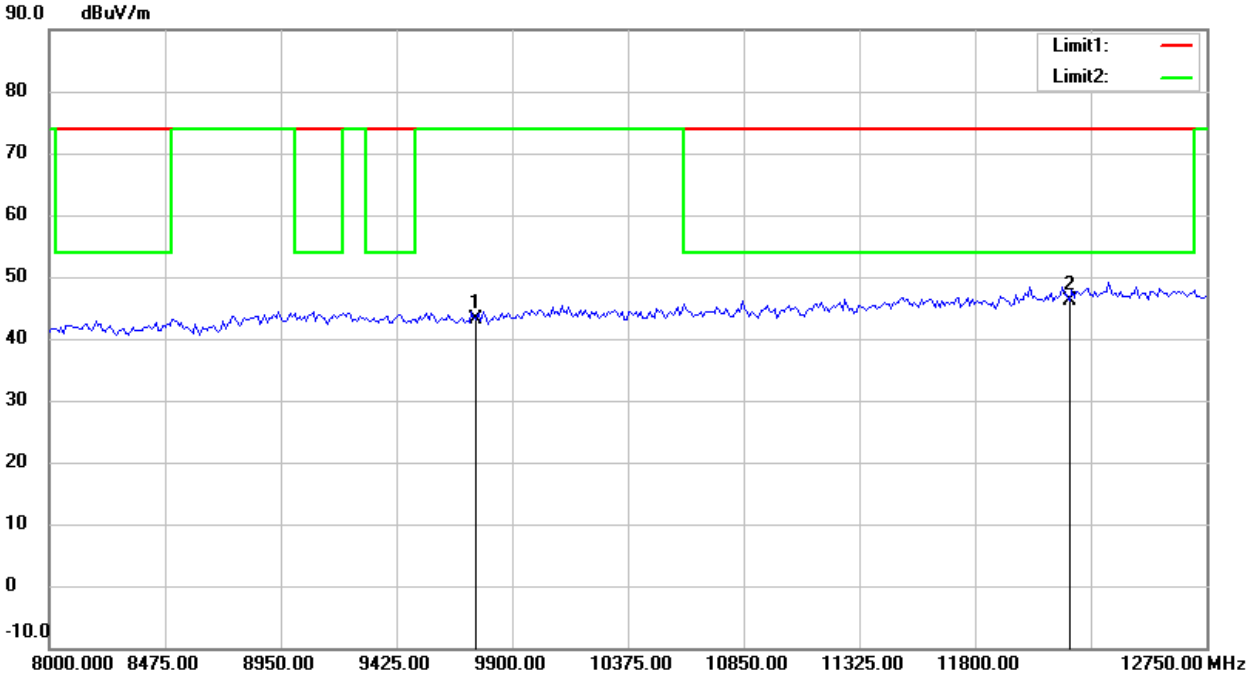

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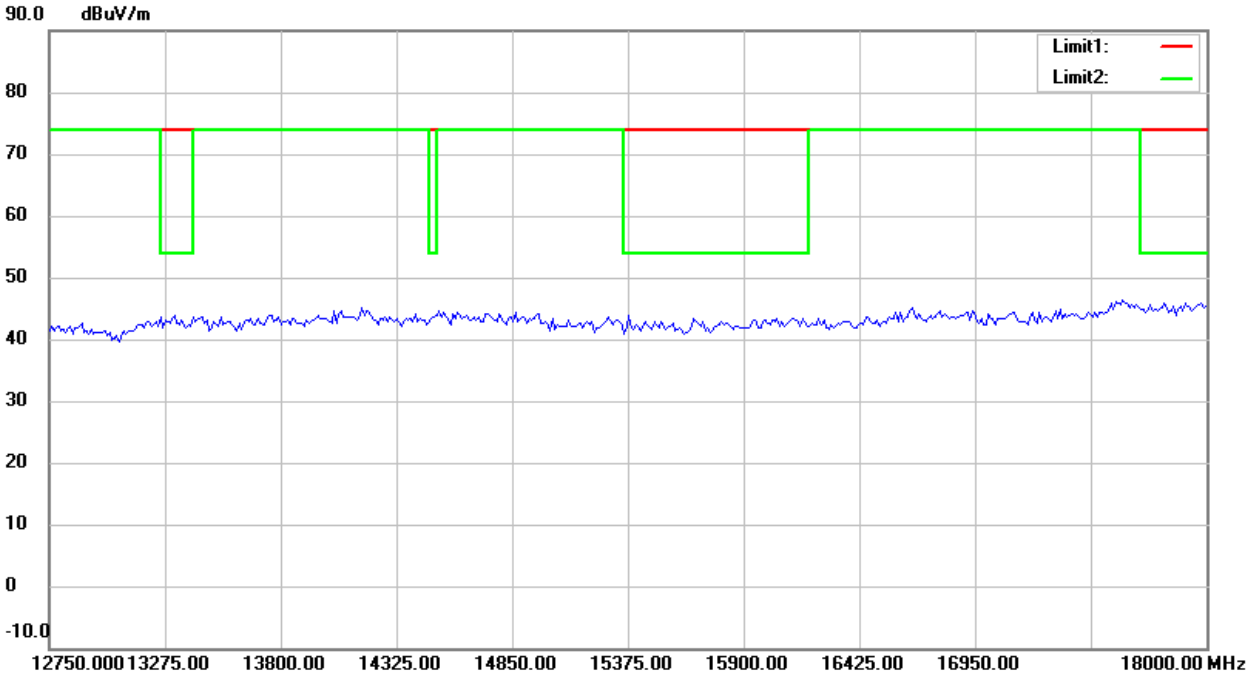

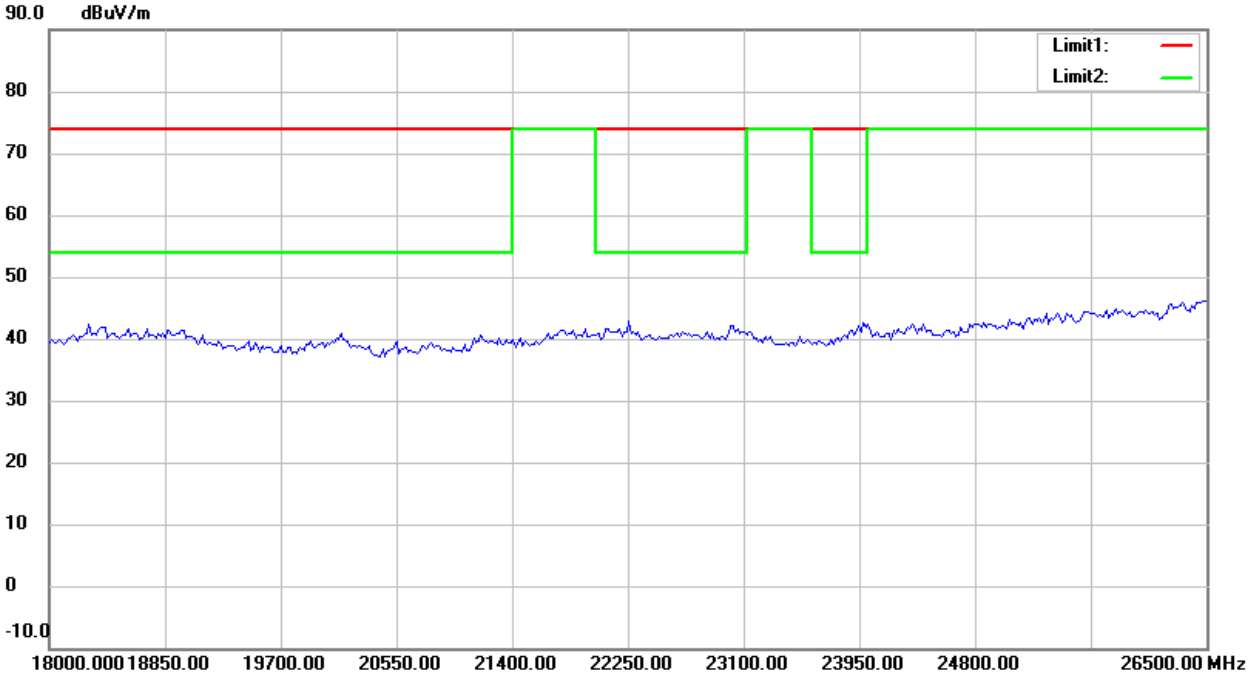

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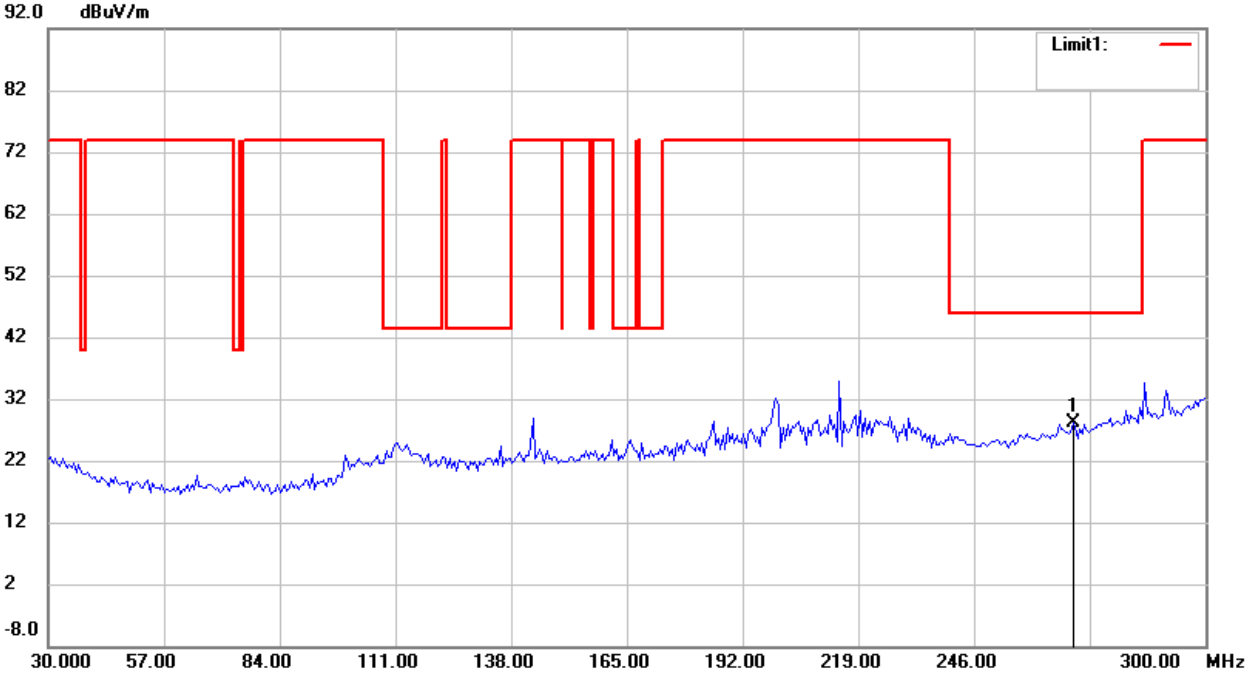
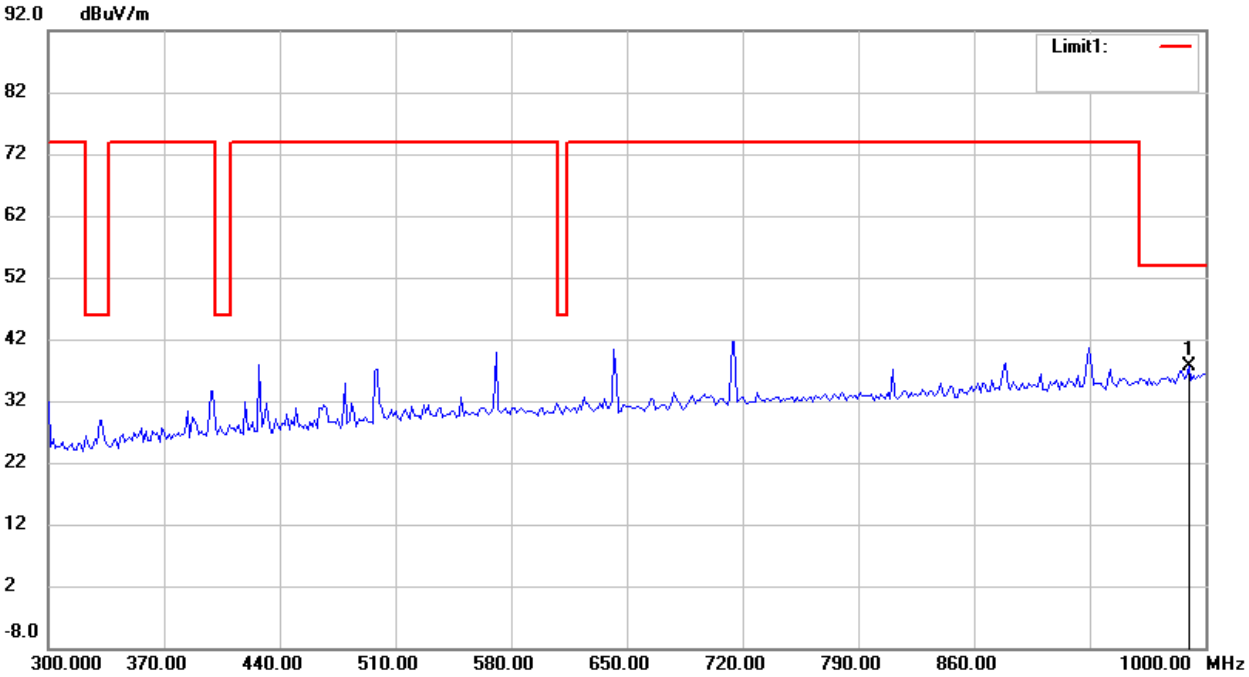
Registration number: W6M21008-10827-C-1
FCC ID: JCK-T1125

WLAN 11n20M-2462 MHz
Antenna Polarization H





Note:
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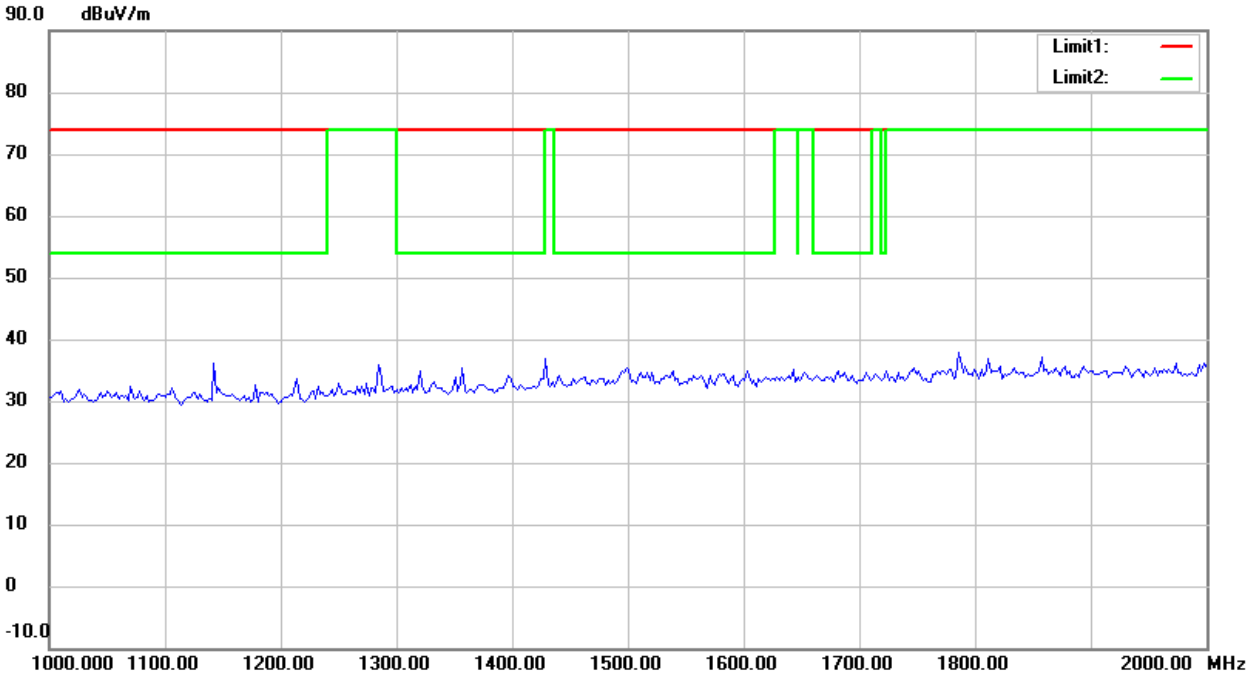

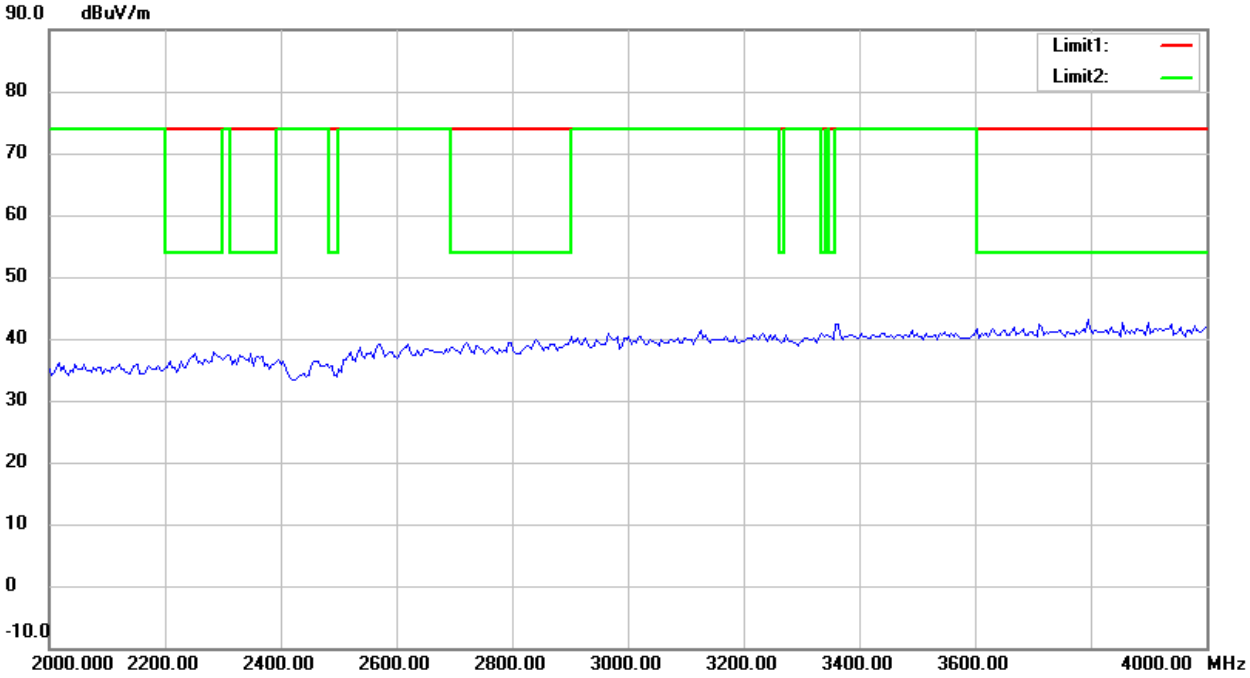

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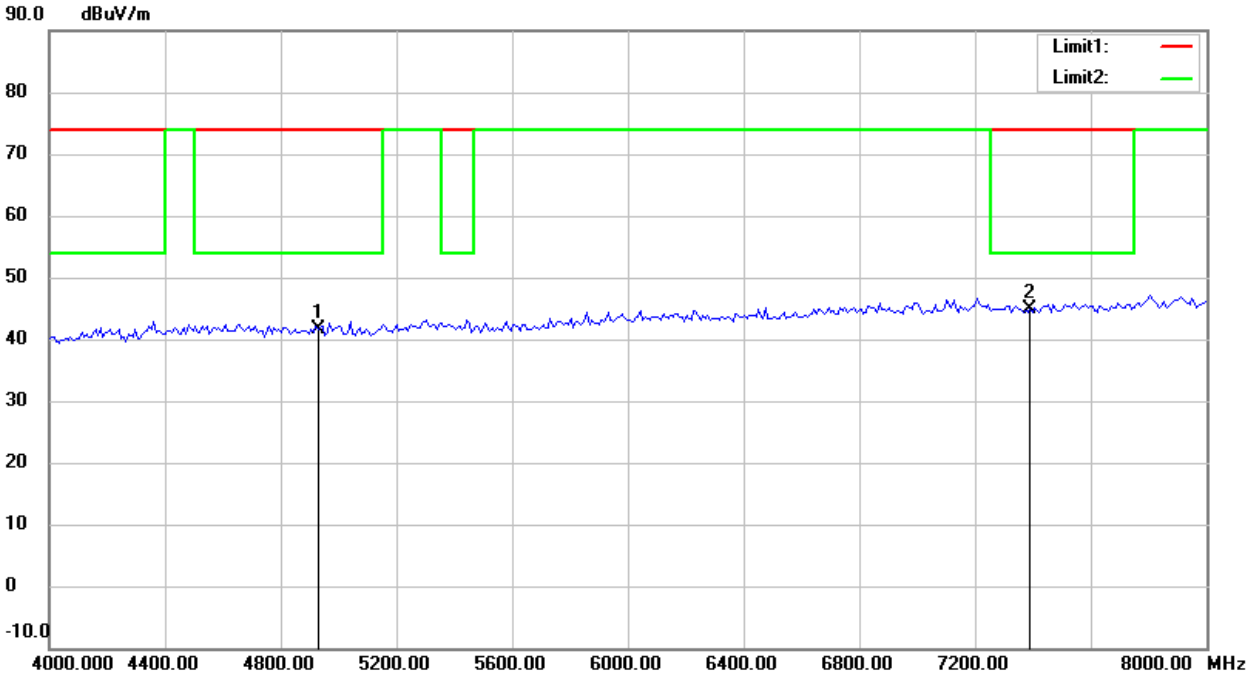

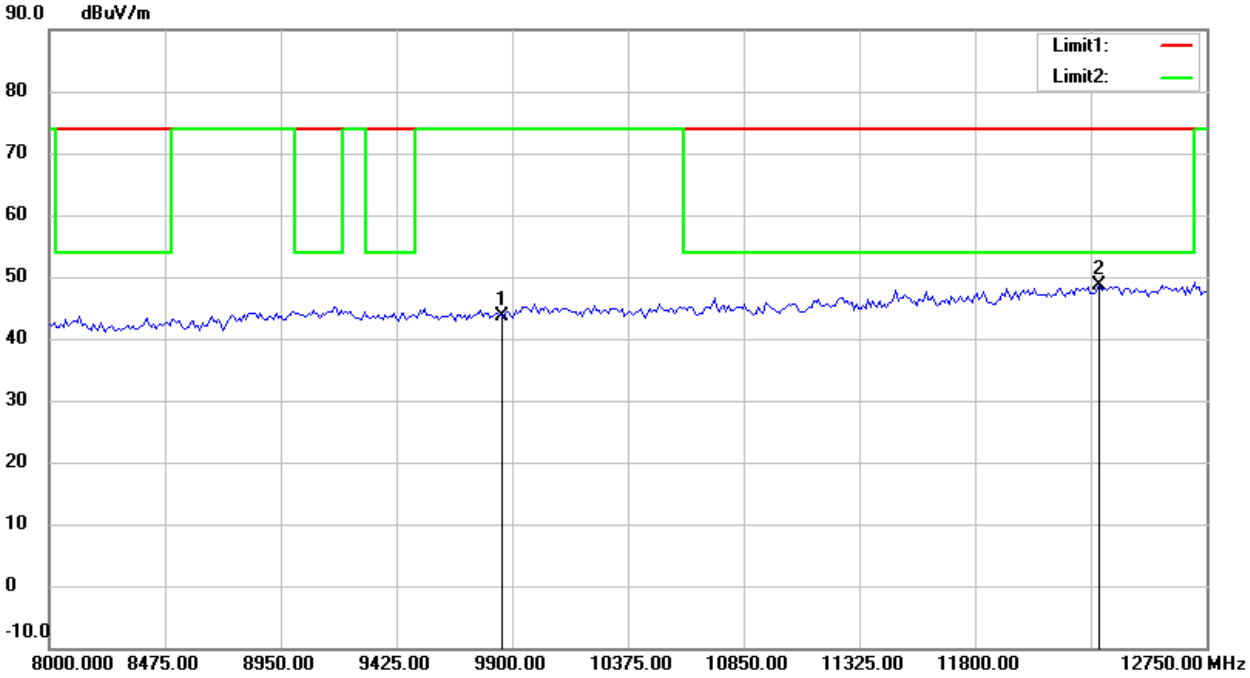

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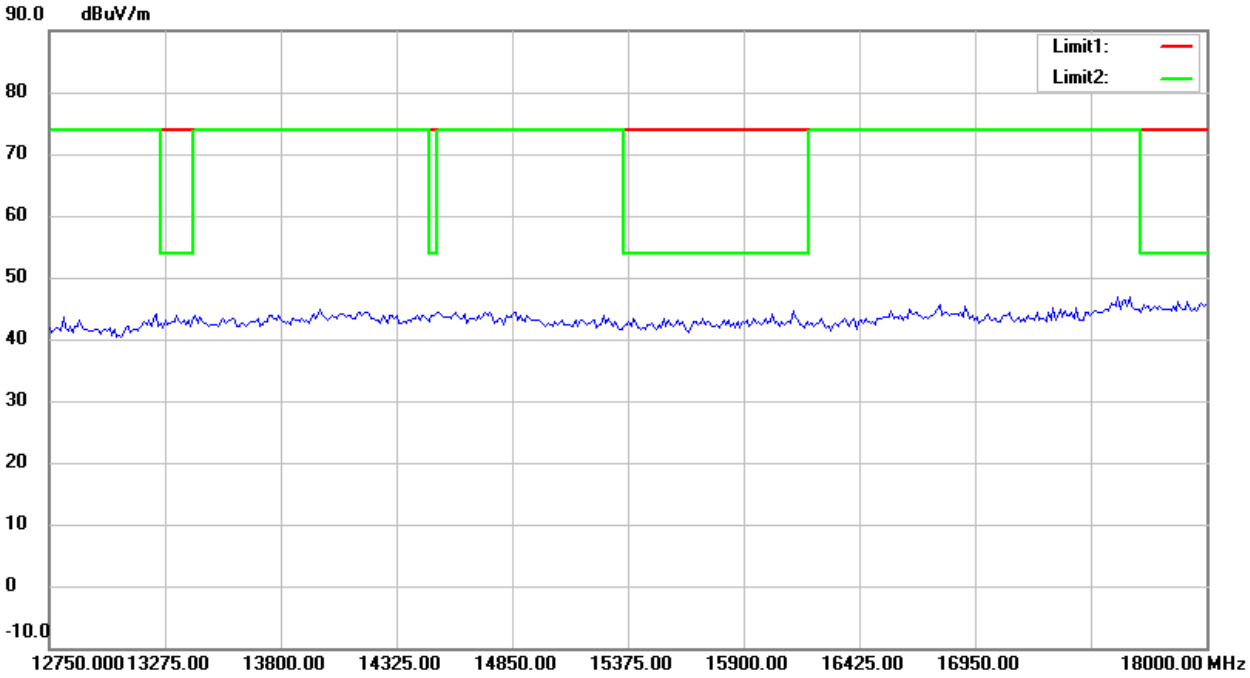

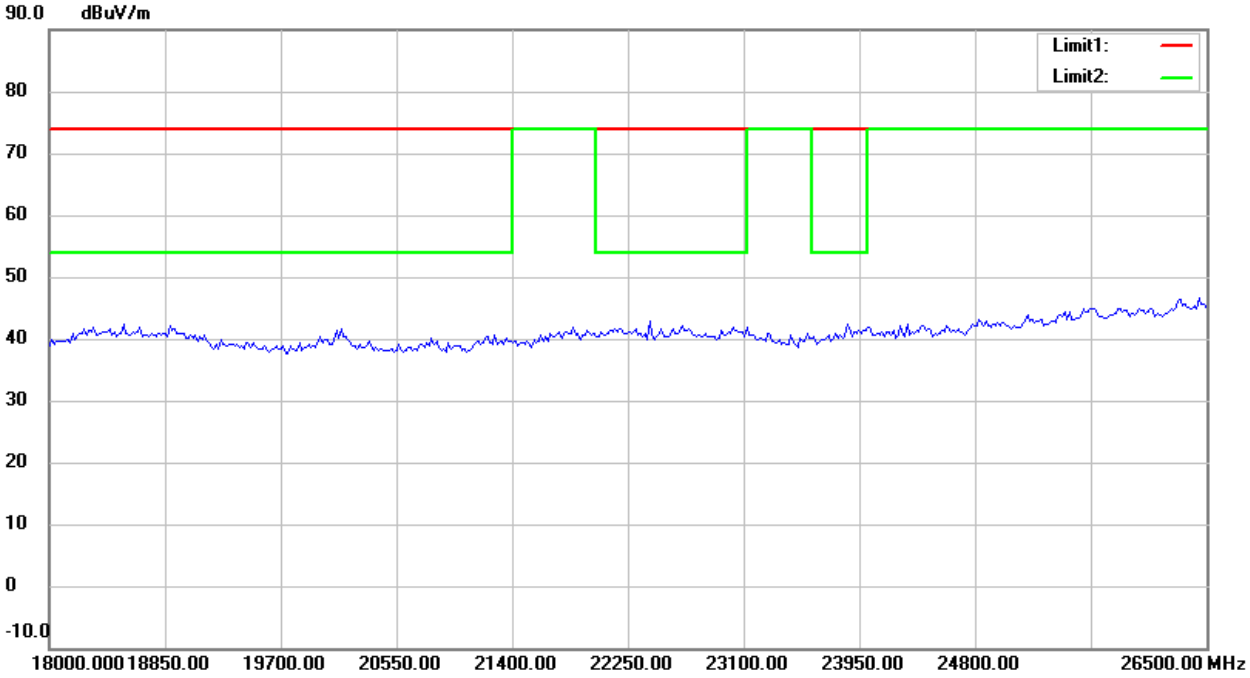

Note:
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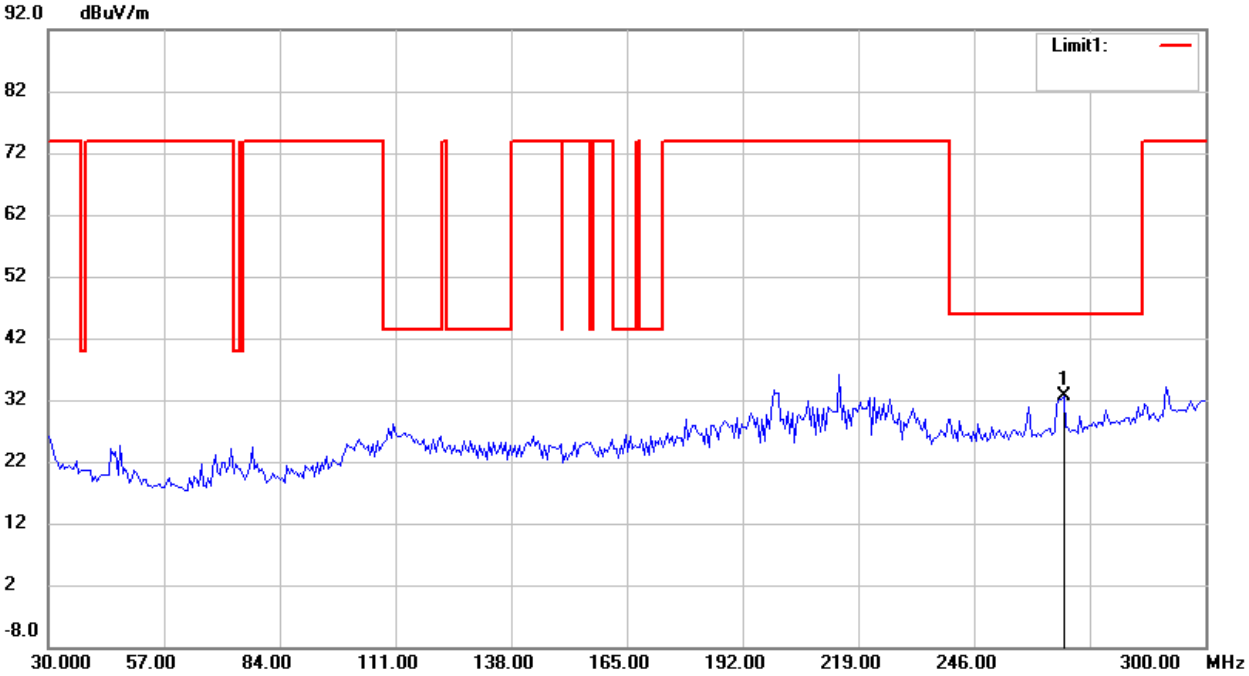
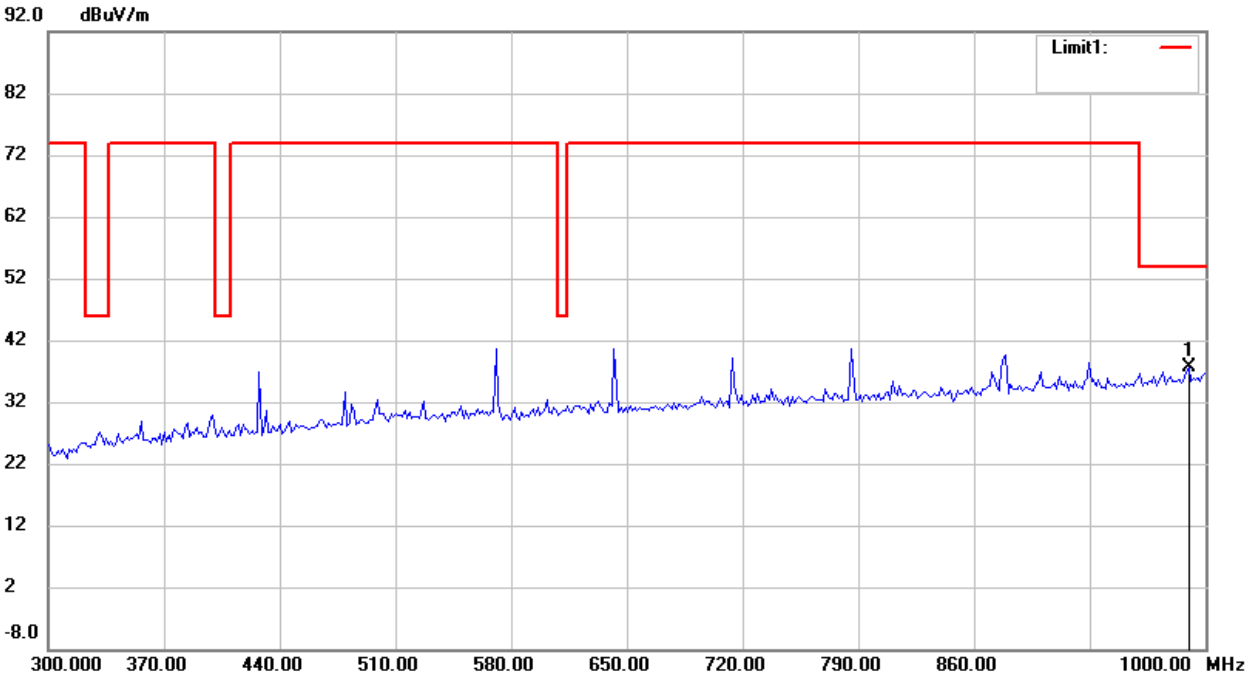
Registration number: W6M21008-10827-C-1
FCC ID: JCK-T1125

Antenna Polarization V





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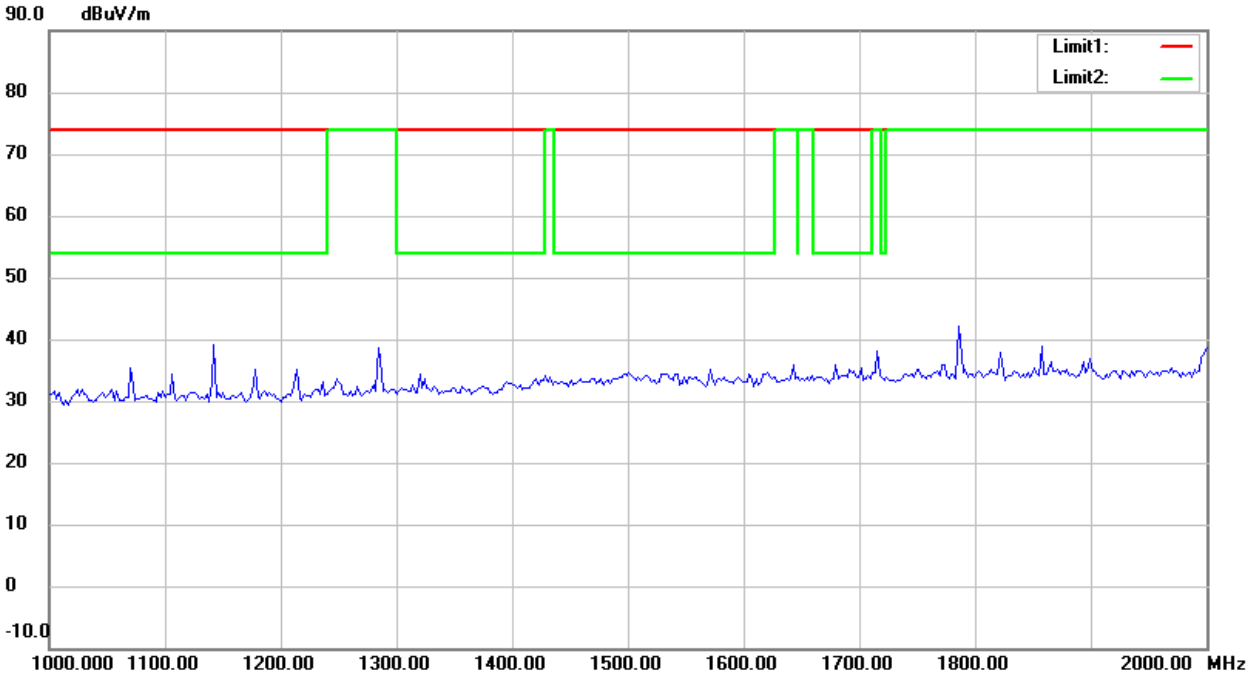

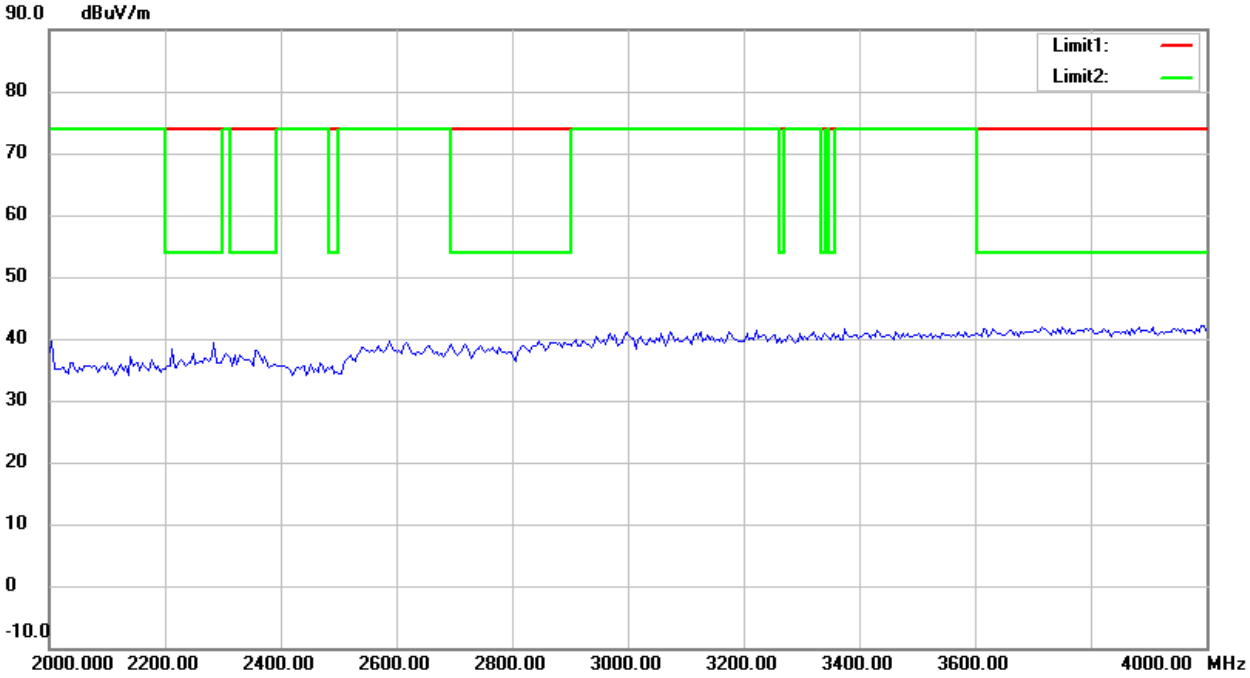

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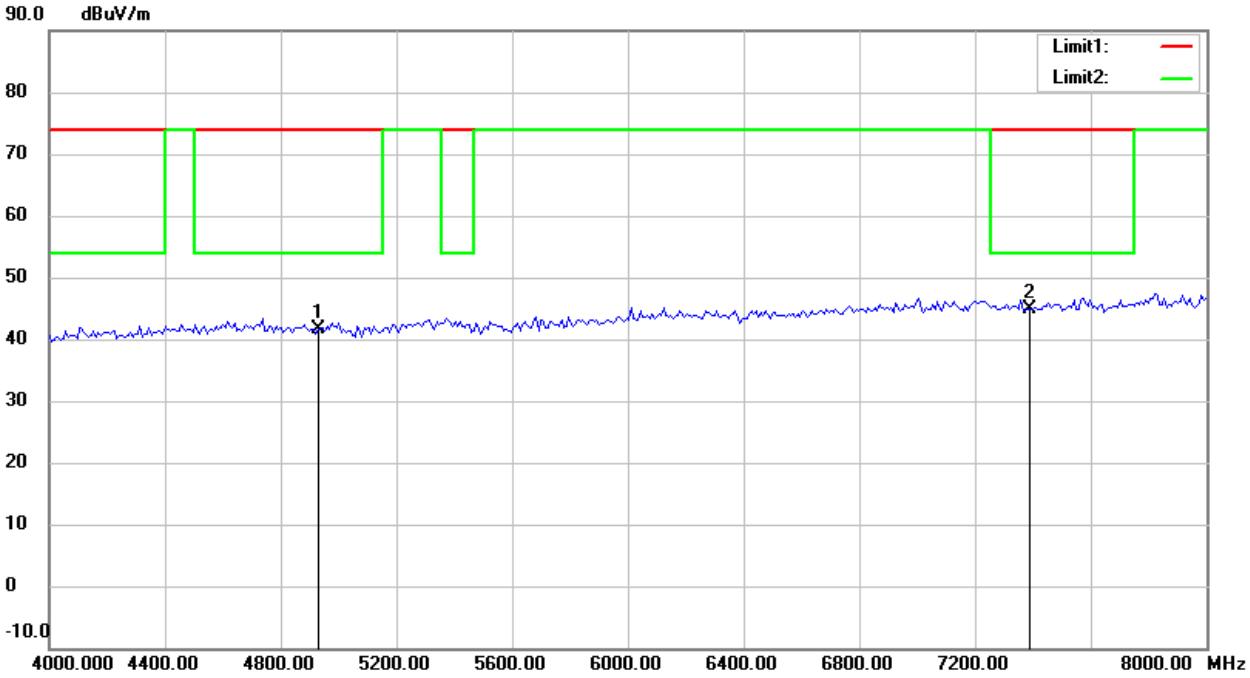

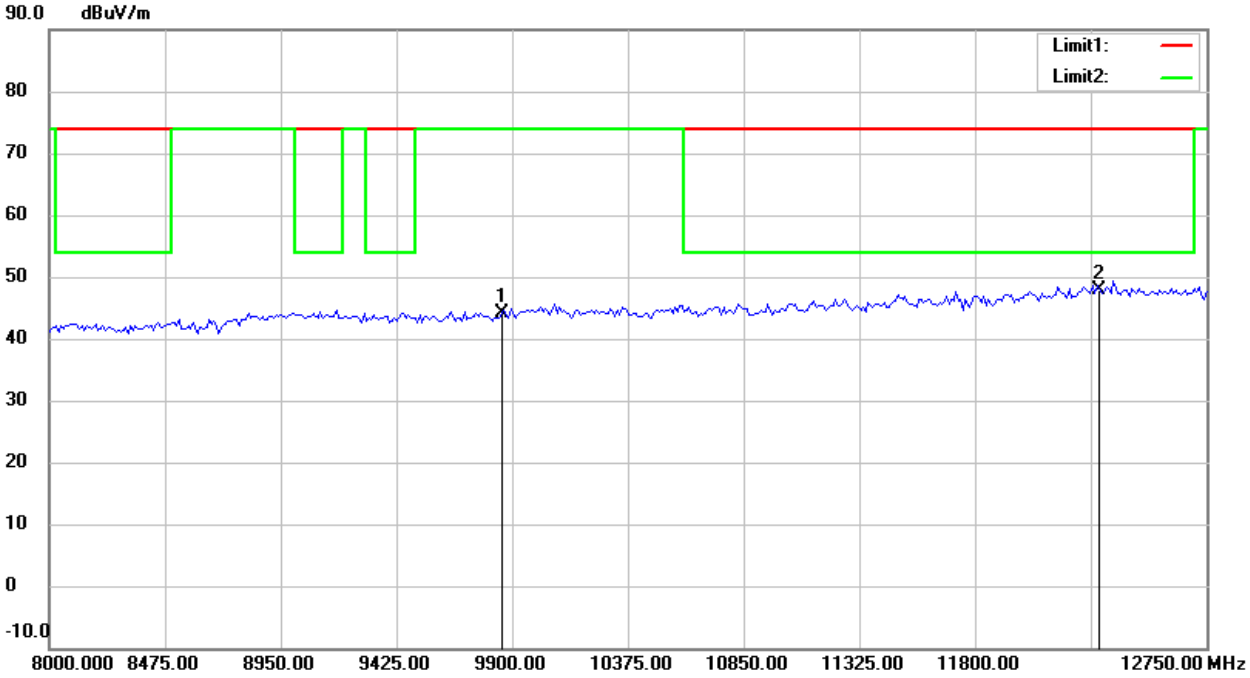

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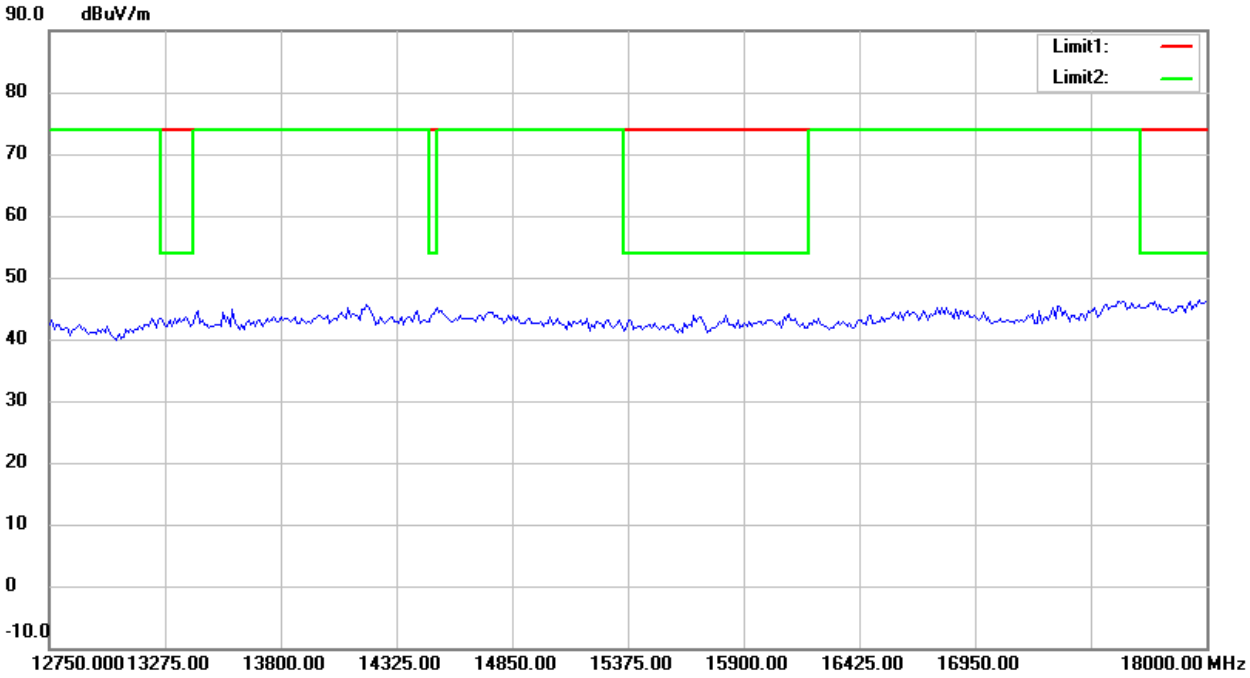

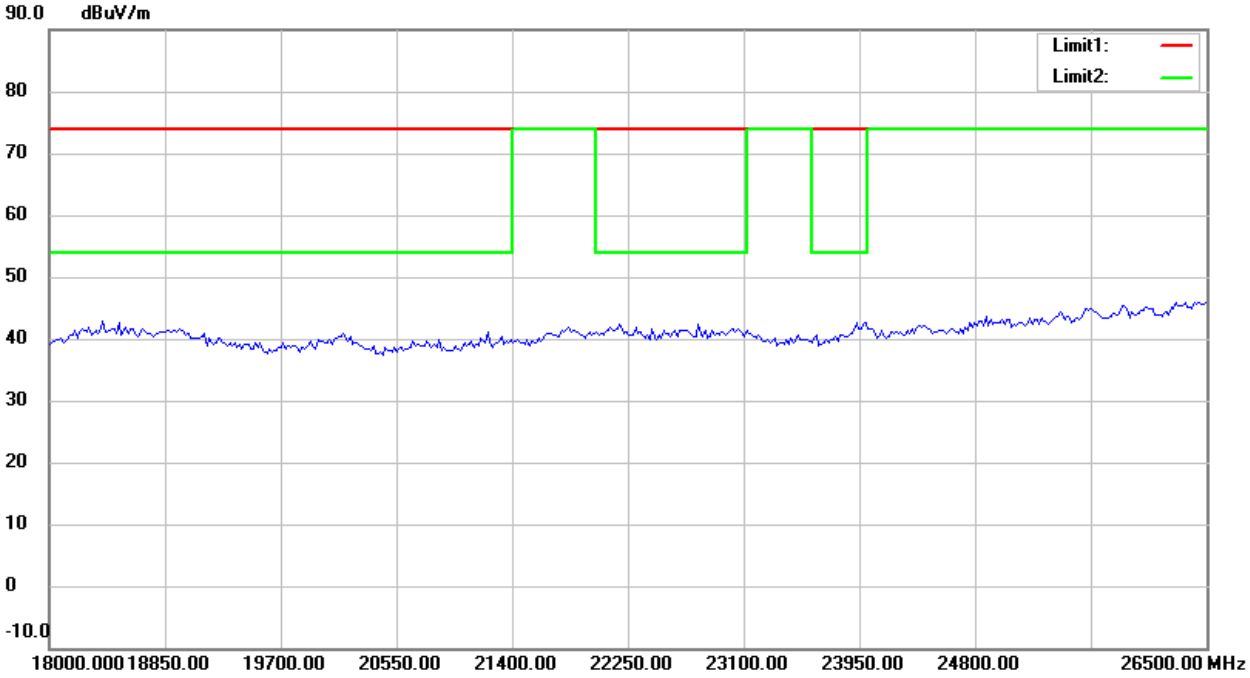

Note:
Up Line: Peak Limit Line Down Line: Ave Limit Line

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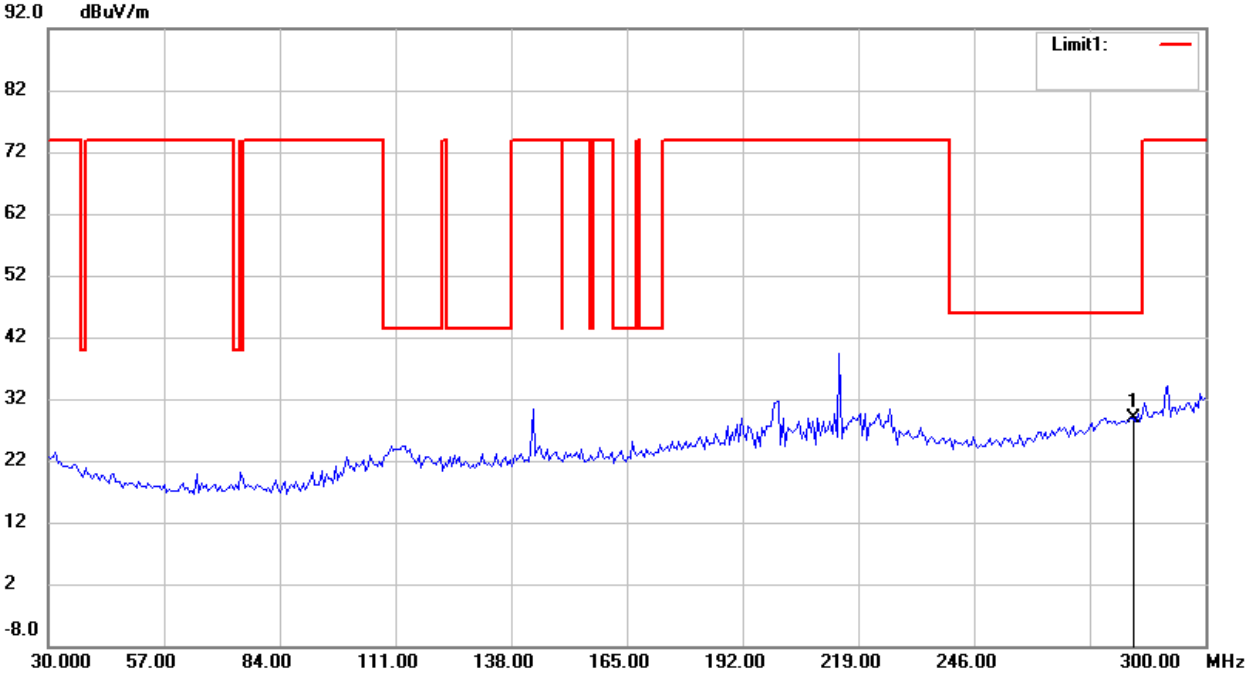
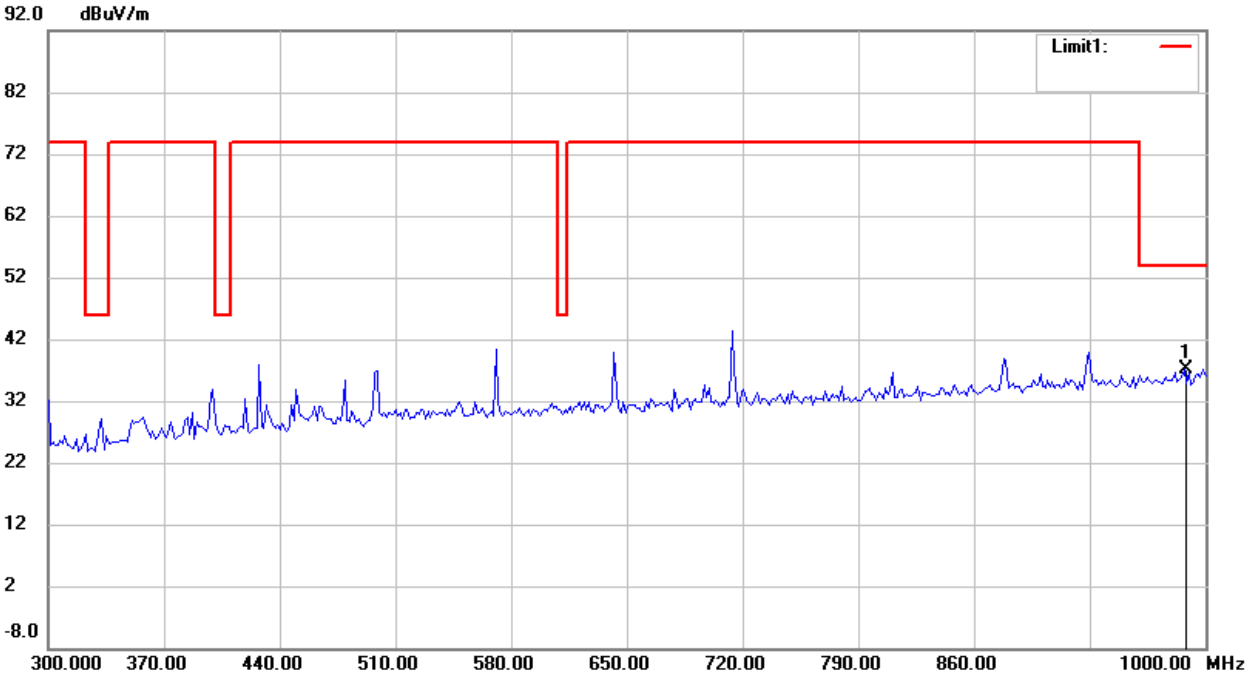
WLAN 11n40M-2422 MHz
Antenna Polarization H





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

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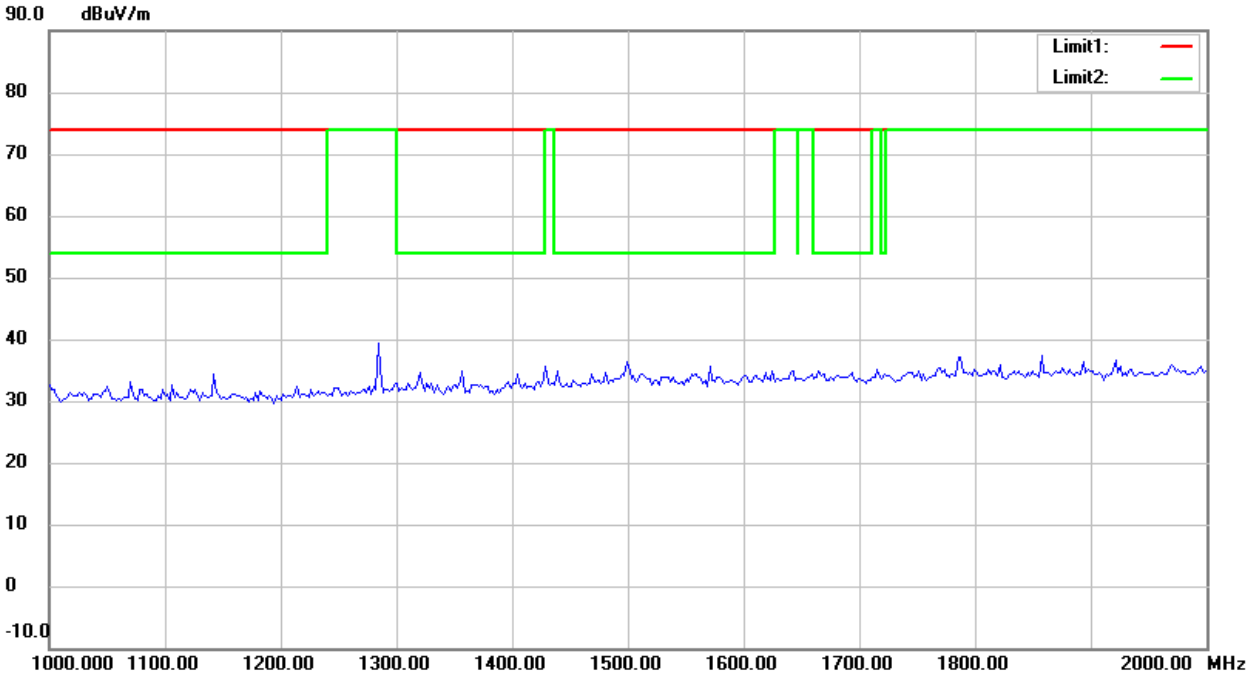
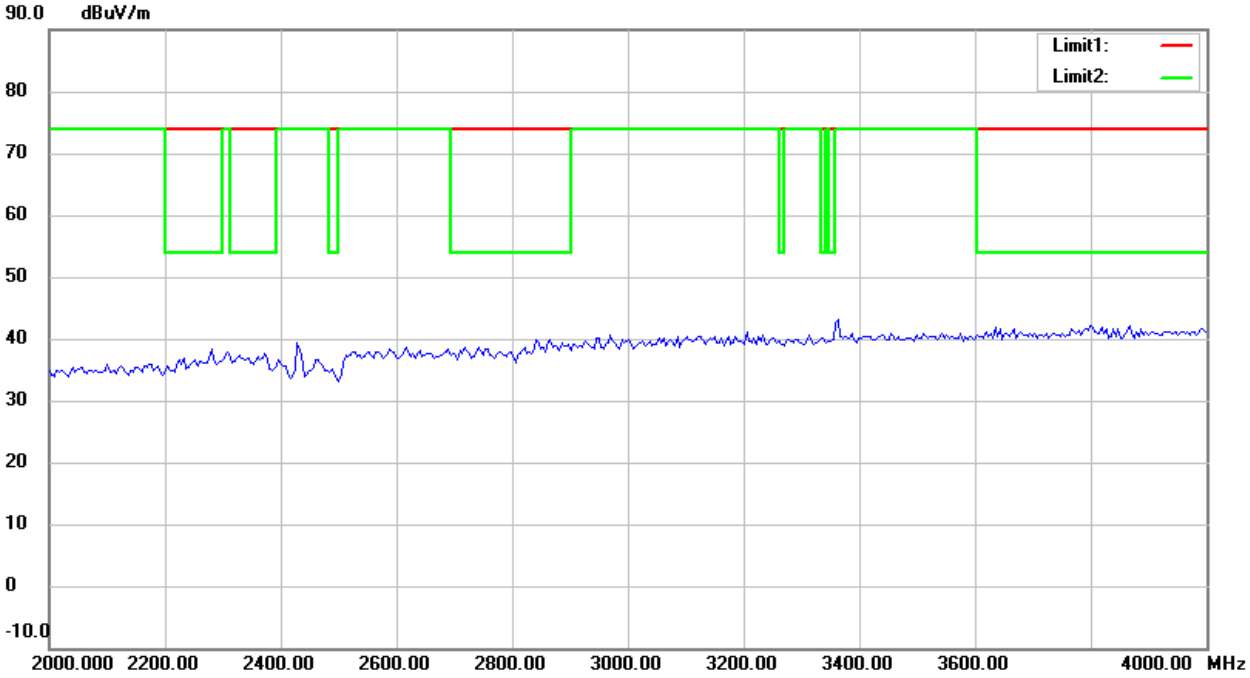
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**





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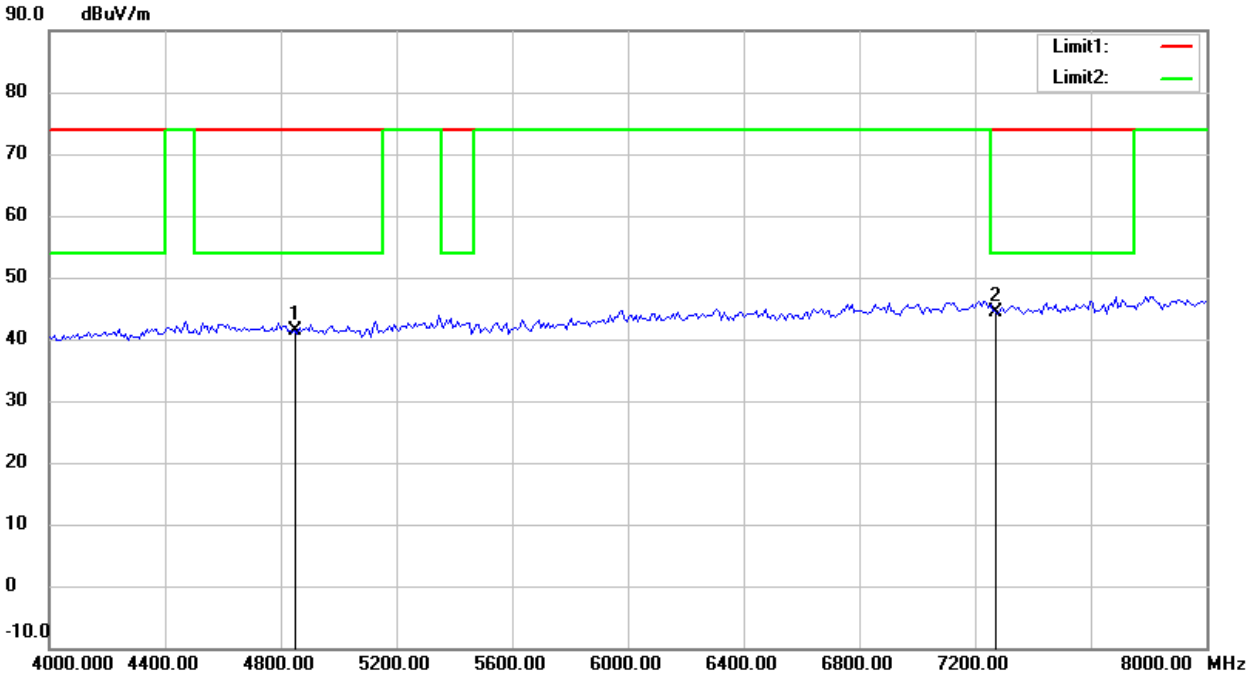

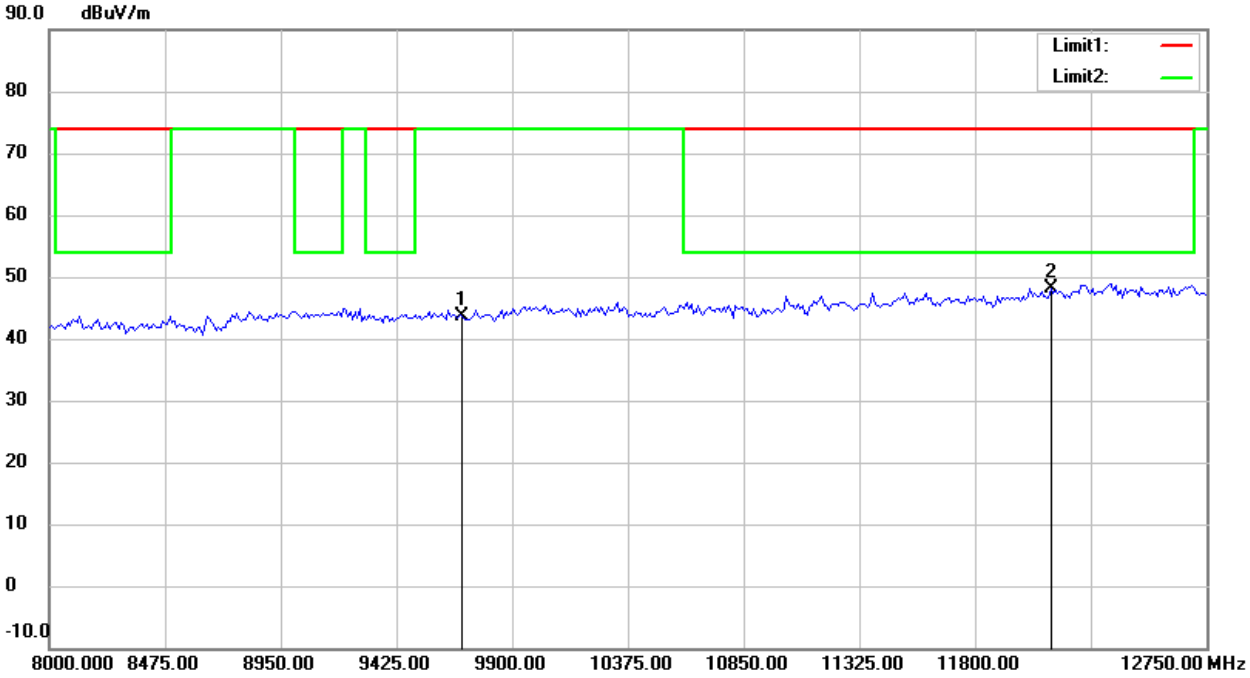

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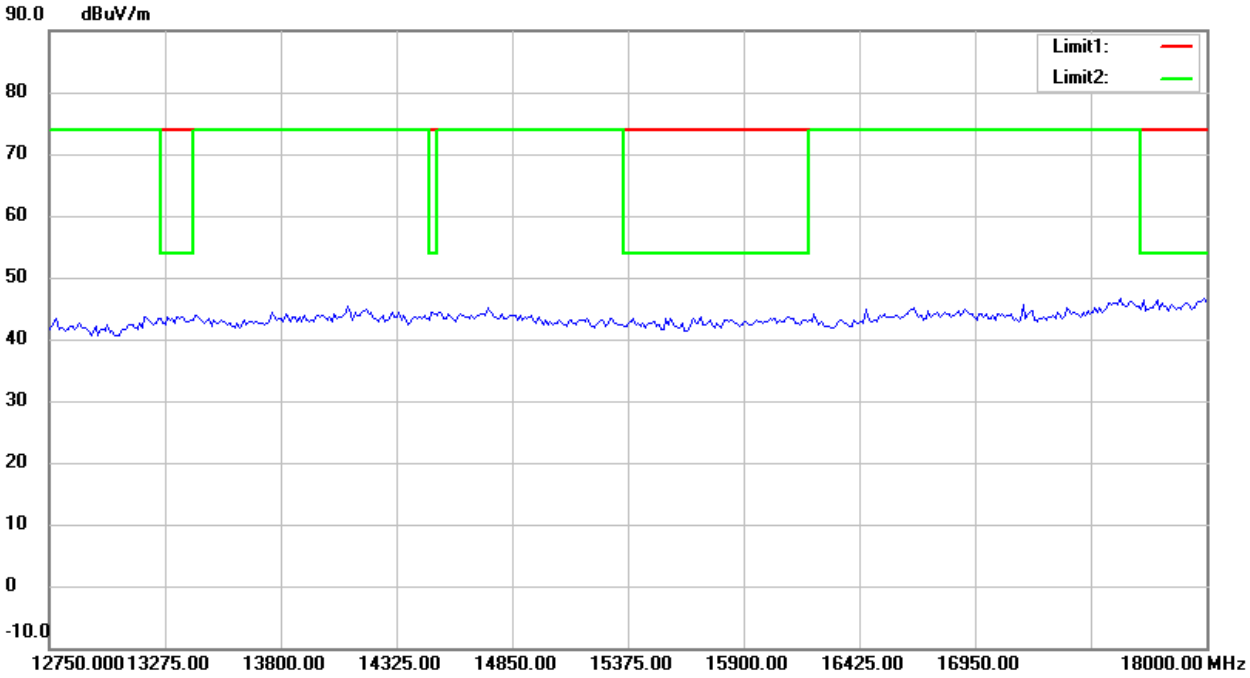

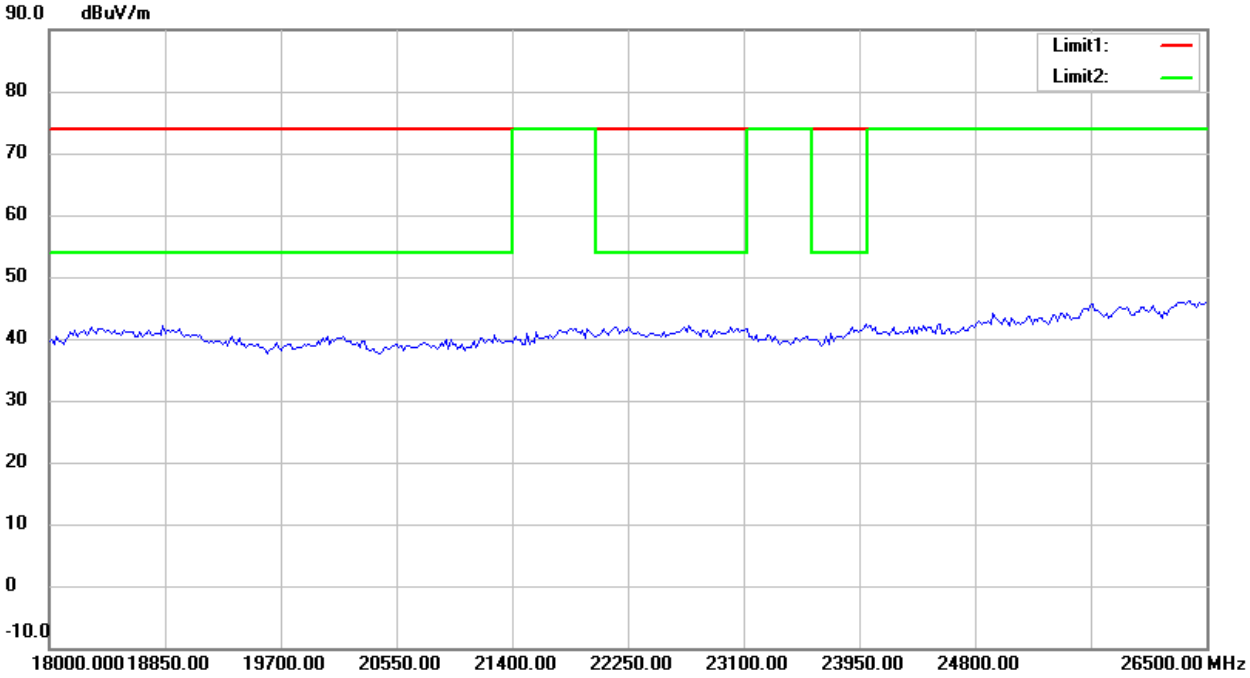

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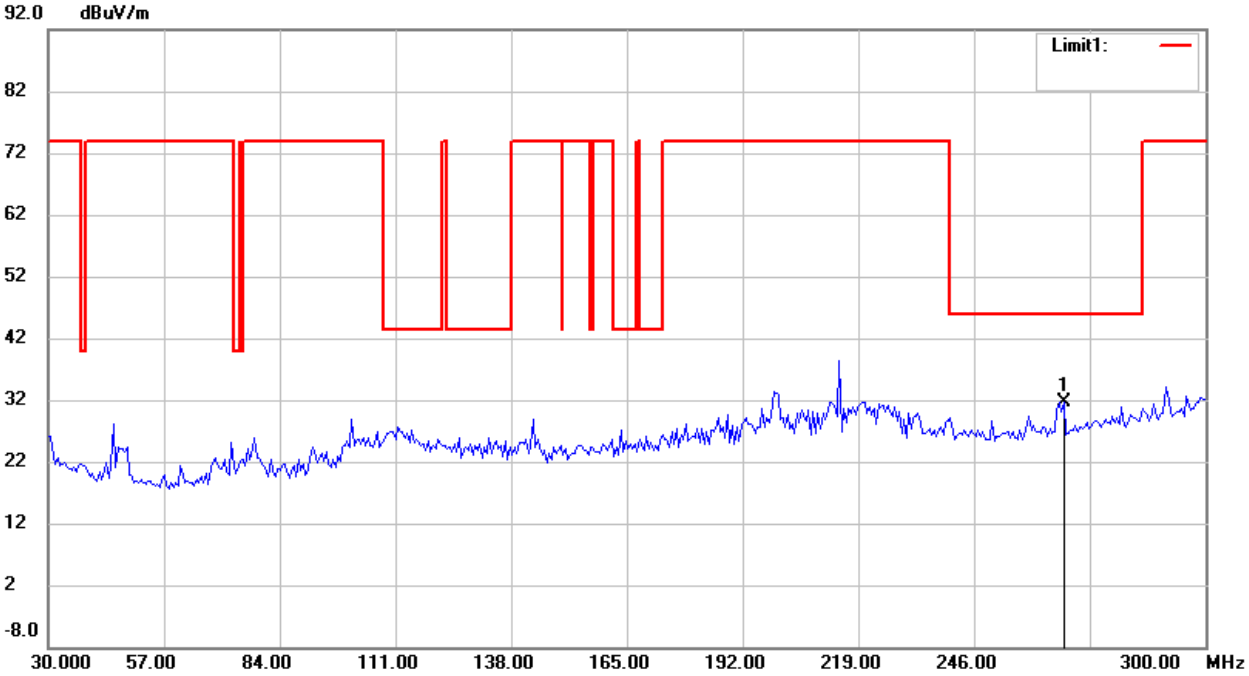
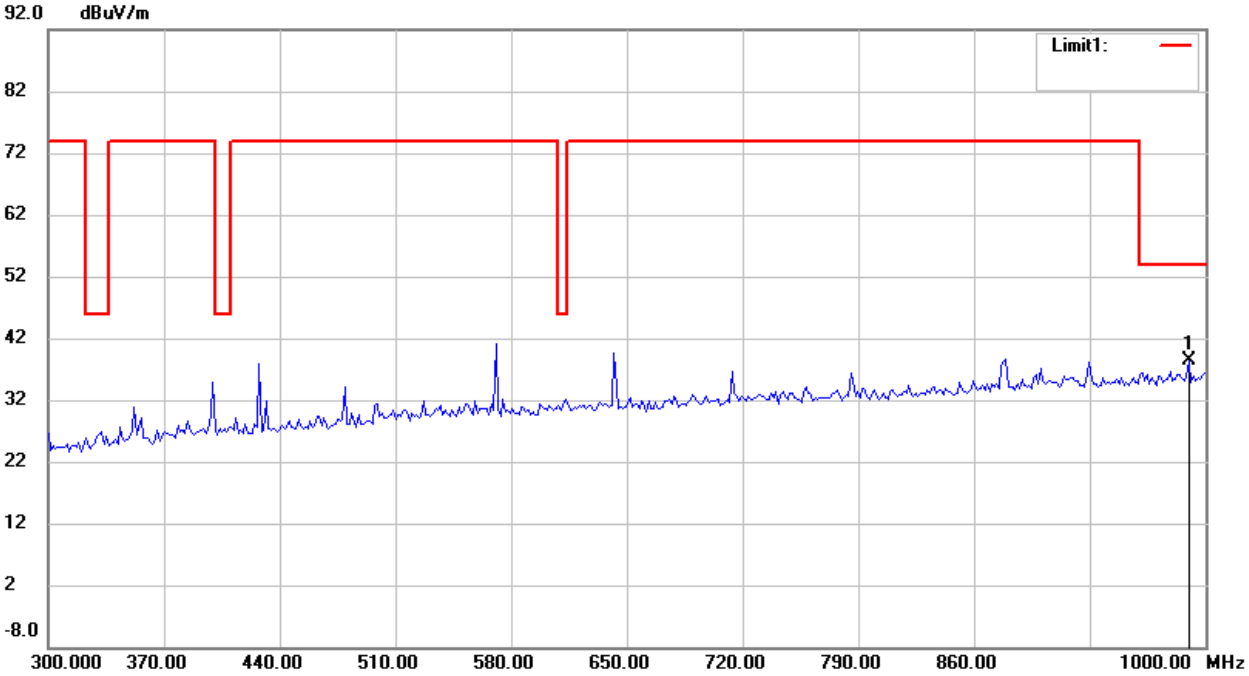
Registration number: W6M21008-10827-C-1
FCC ID: JCK-T1125

Antenna Polarization V





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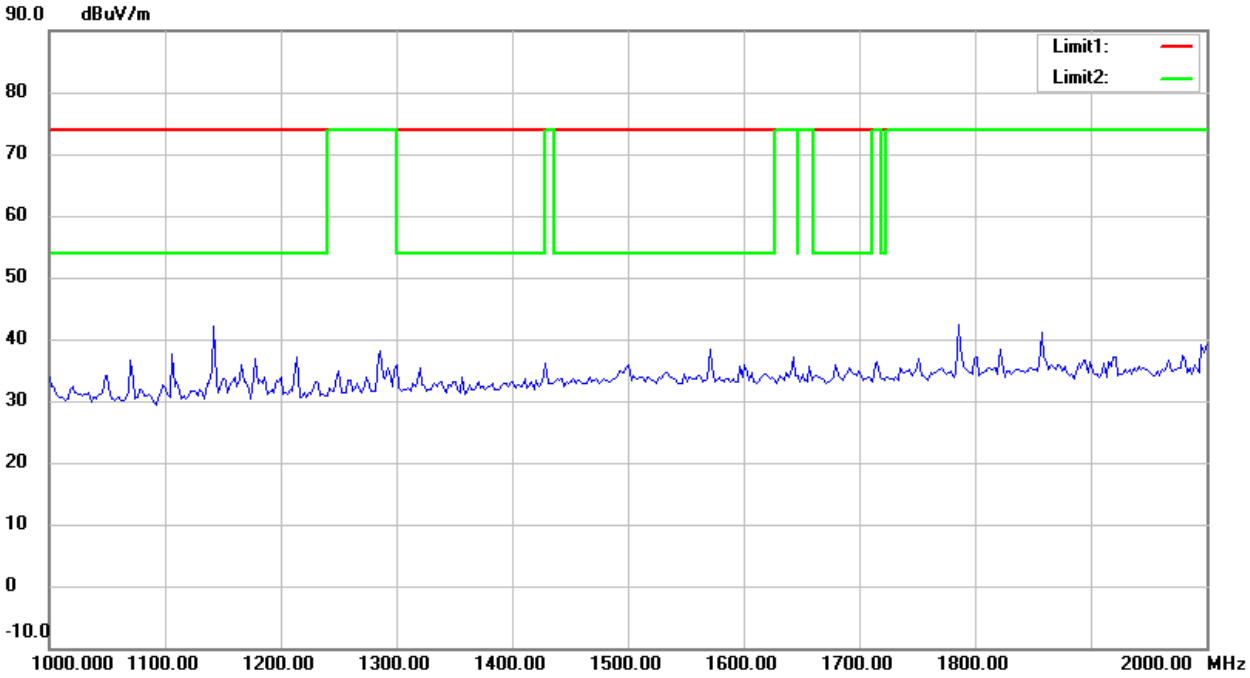

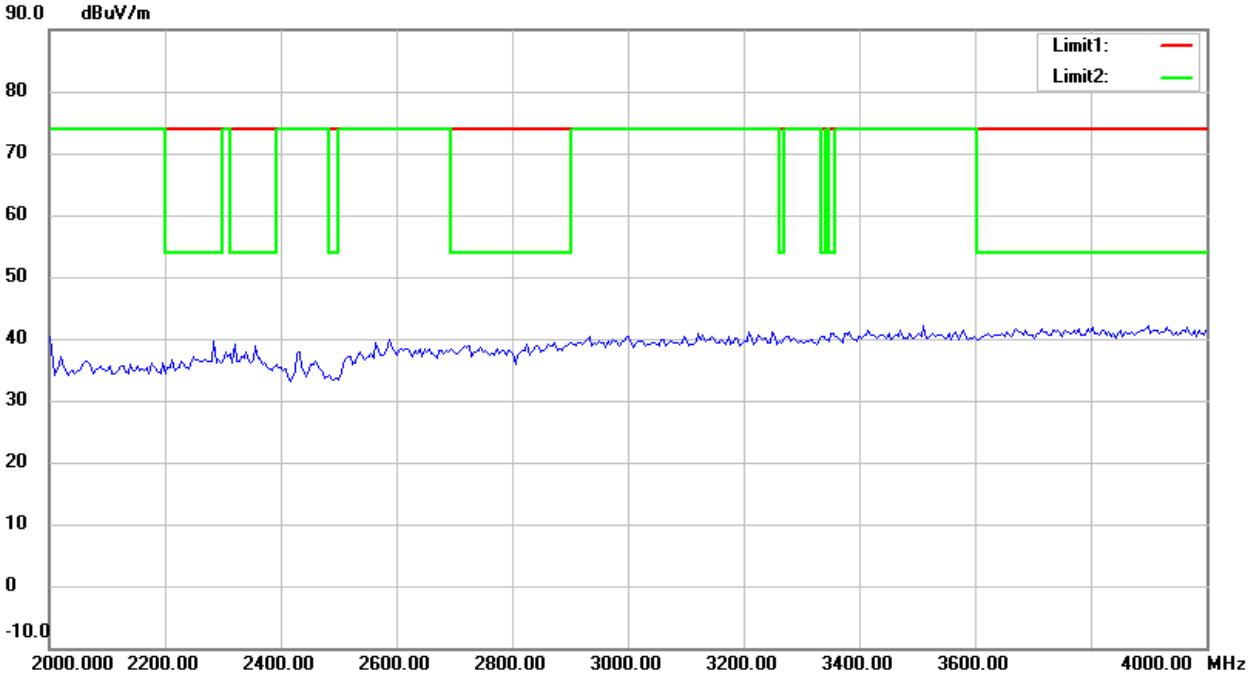

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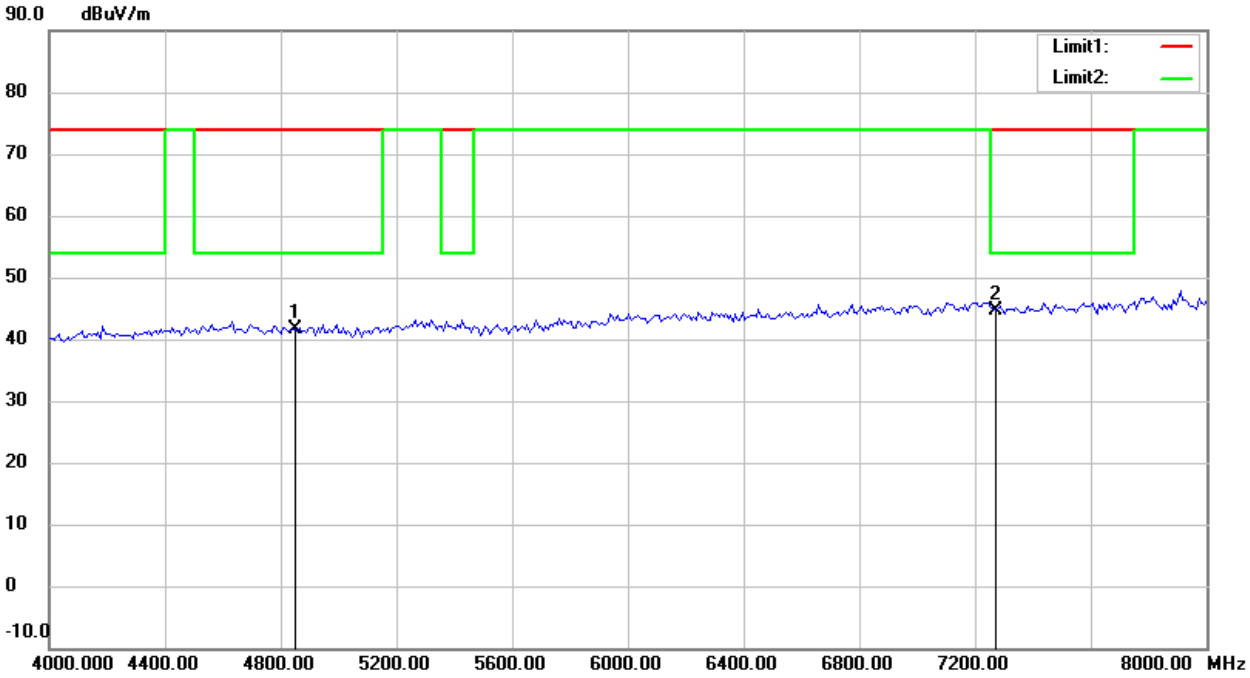

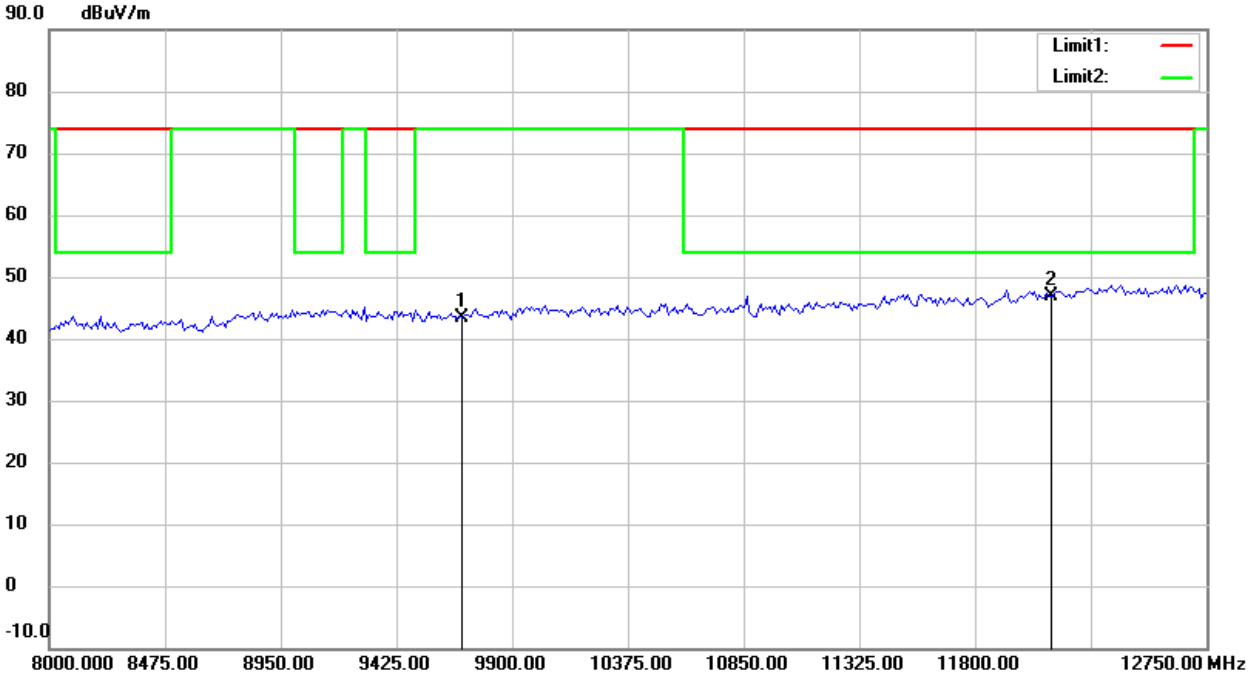

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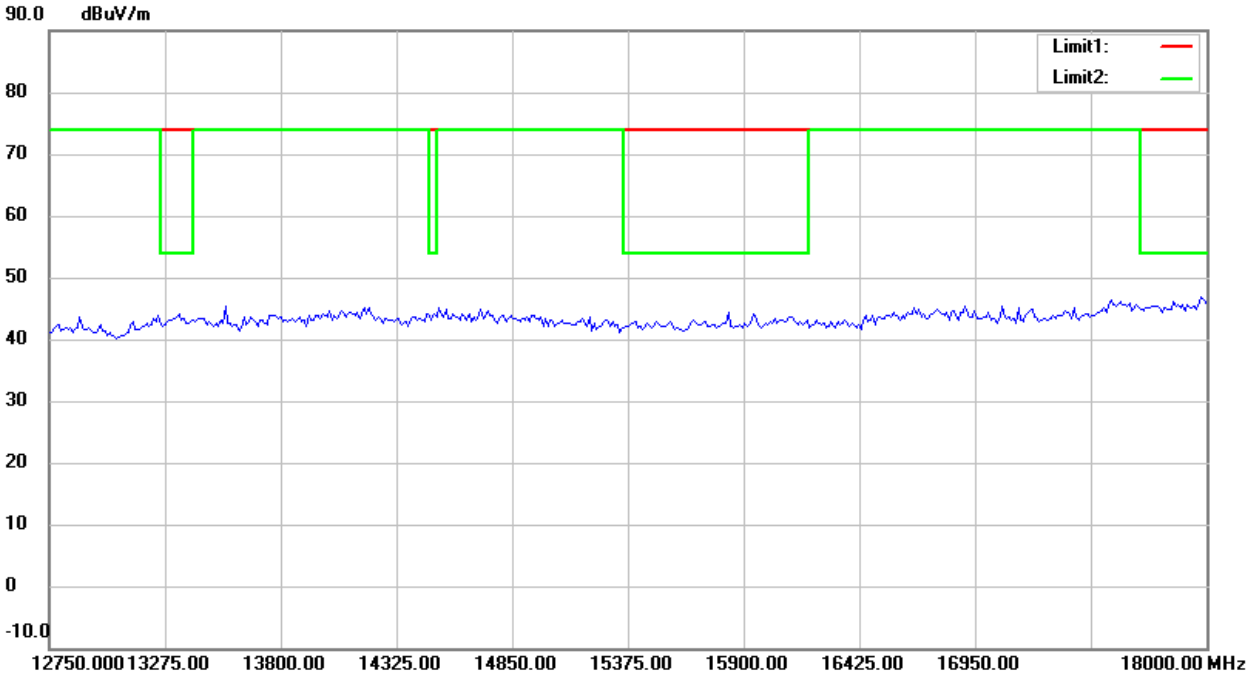

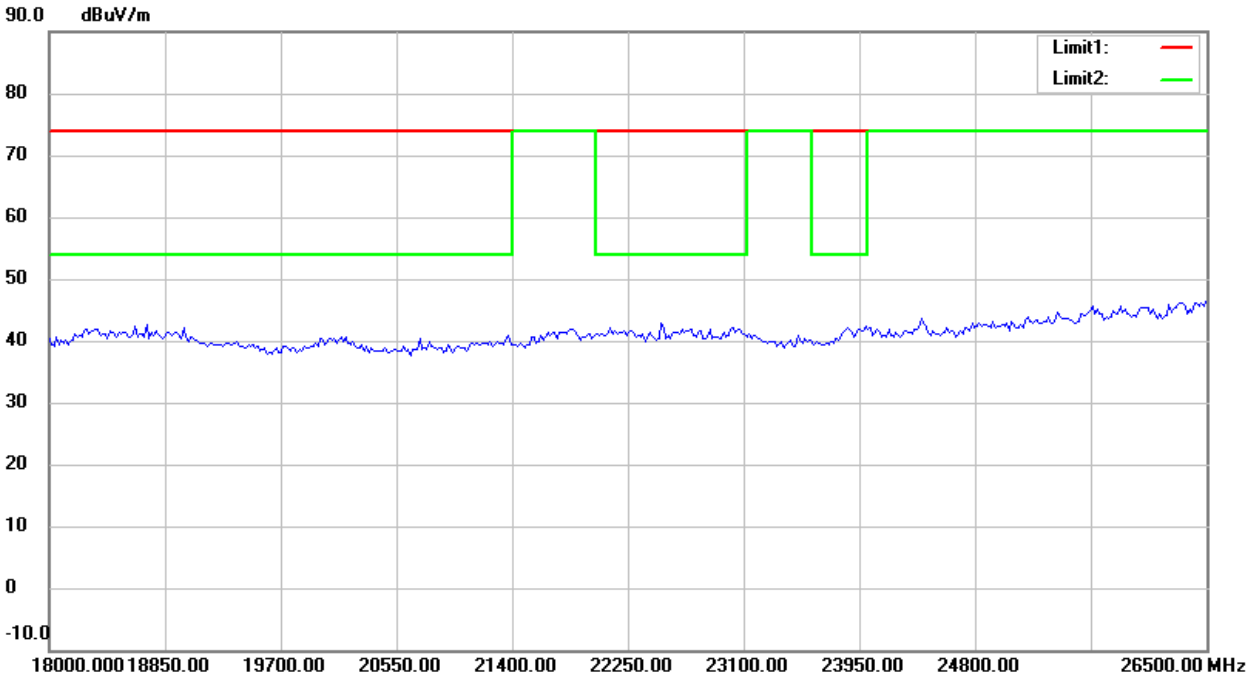

Note:
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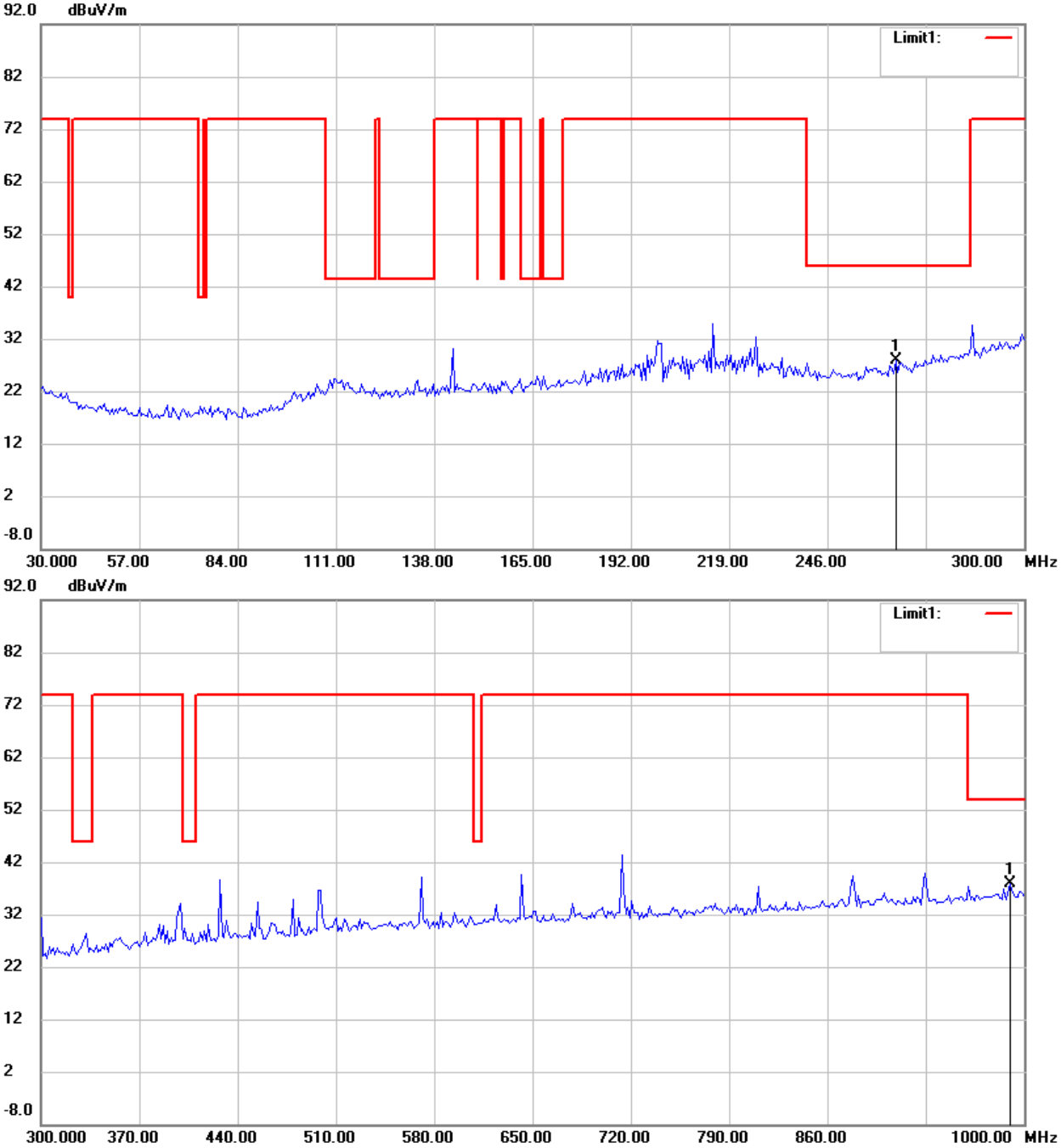
WLAN 11n40M-2437 MHz
Antenna Polarization H



Note:
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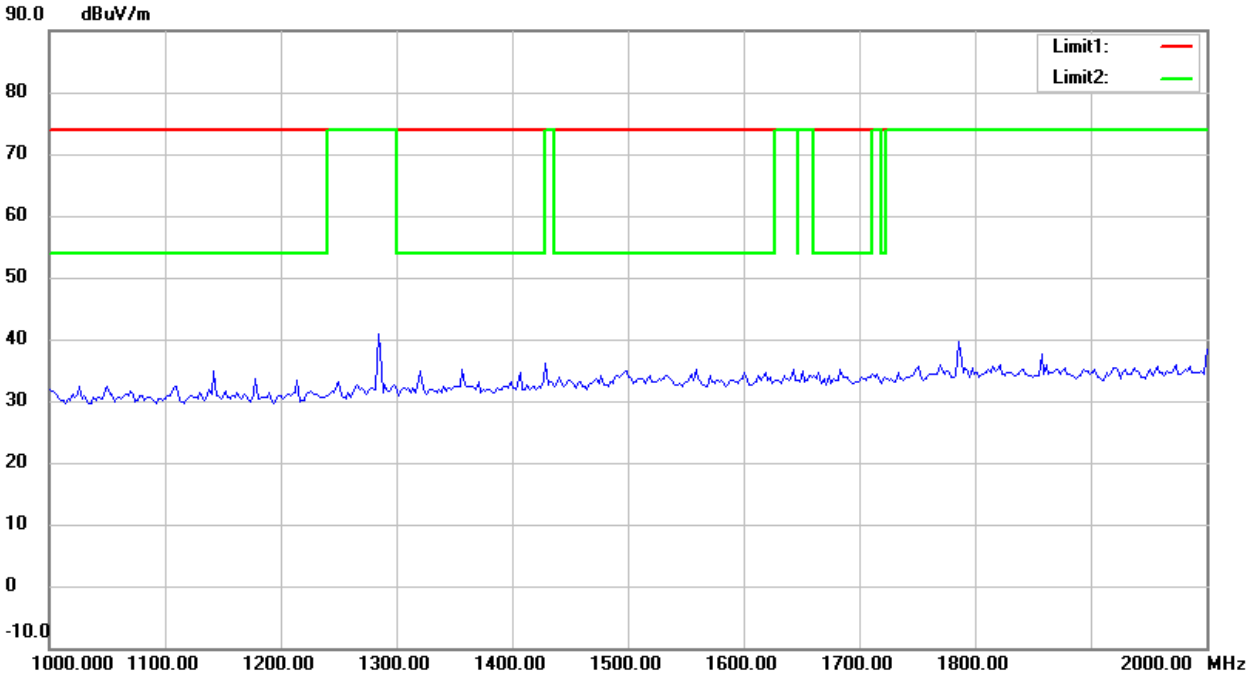

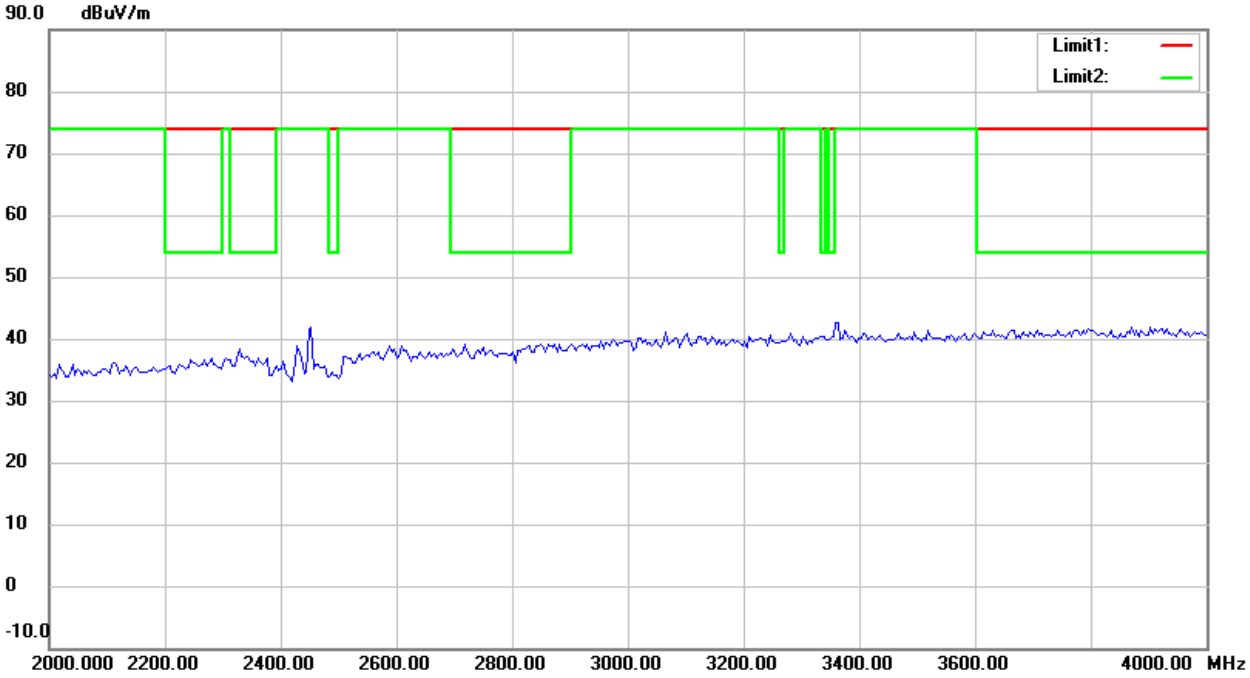

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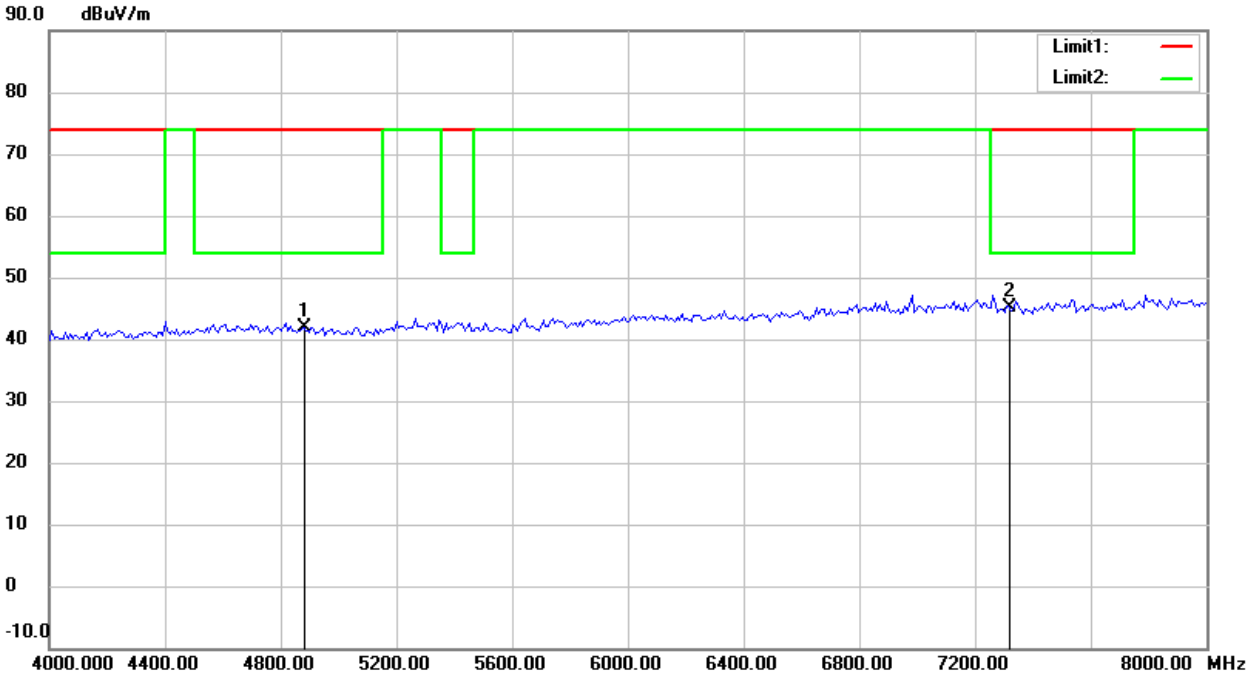

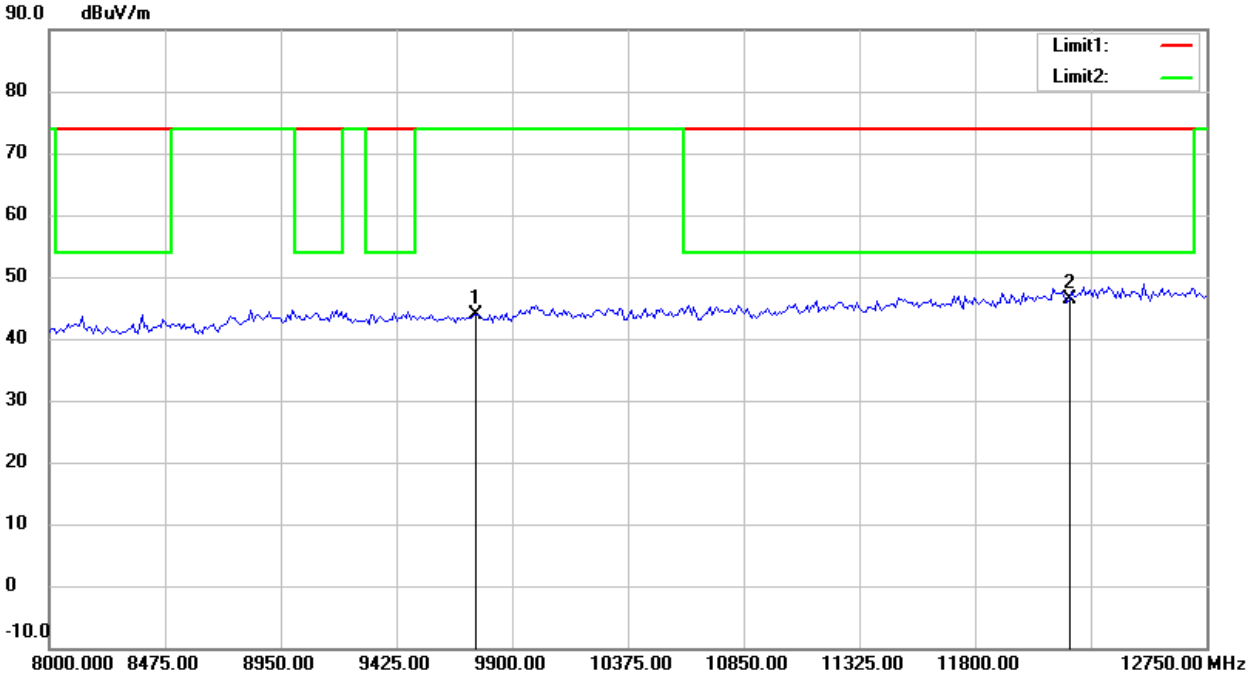

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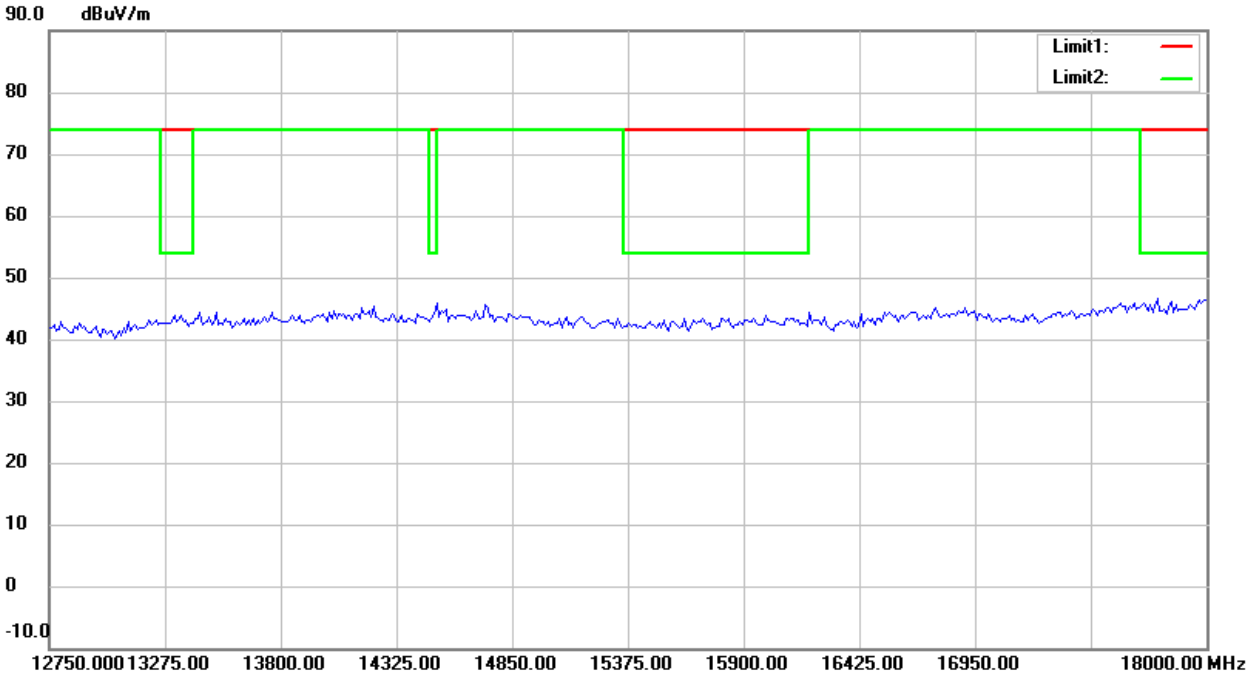

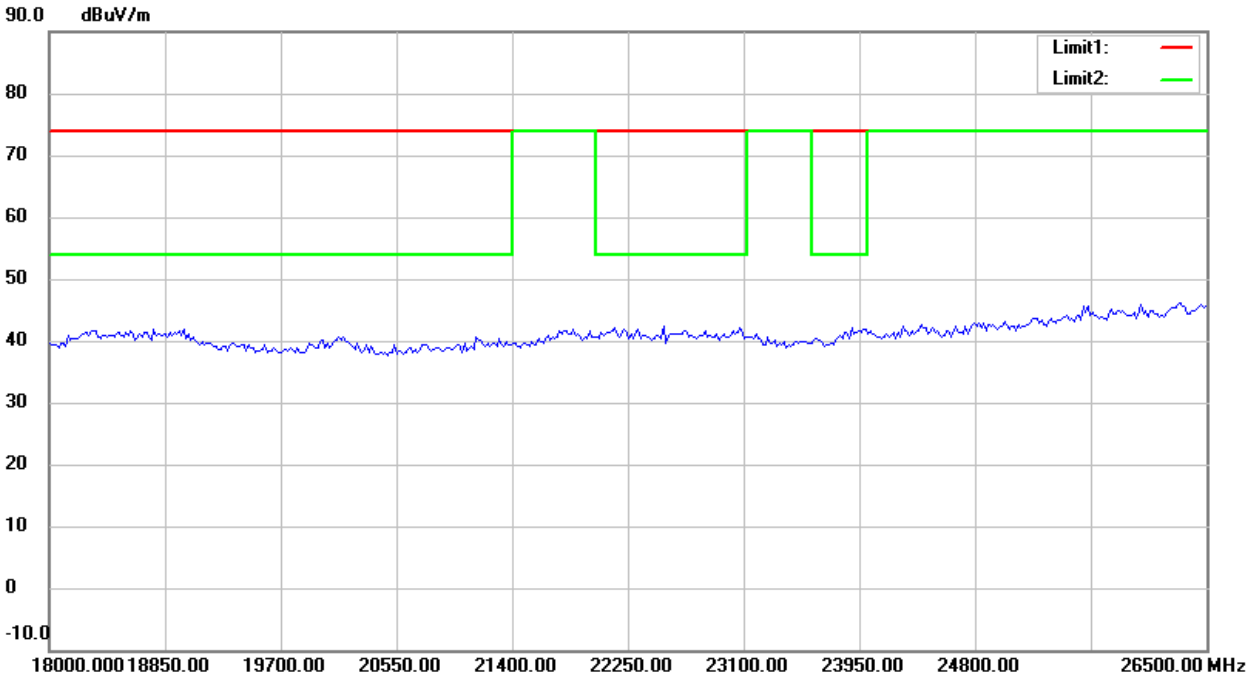

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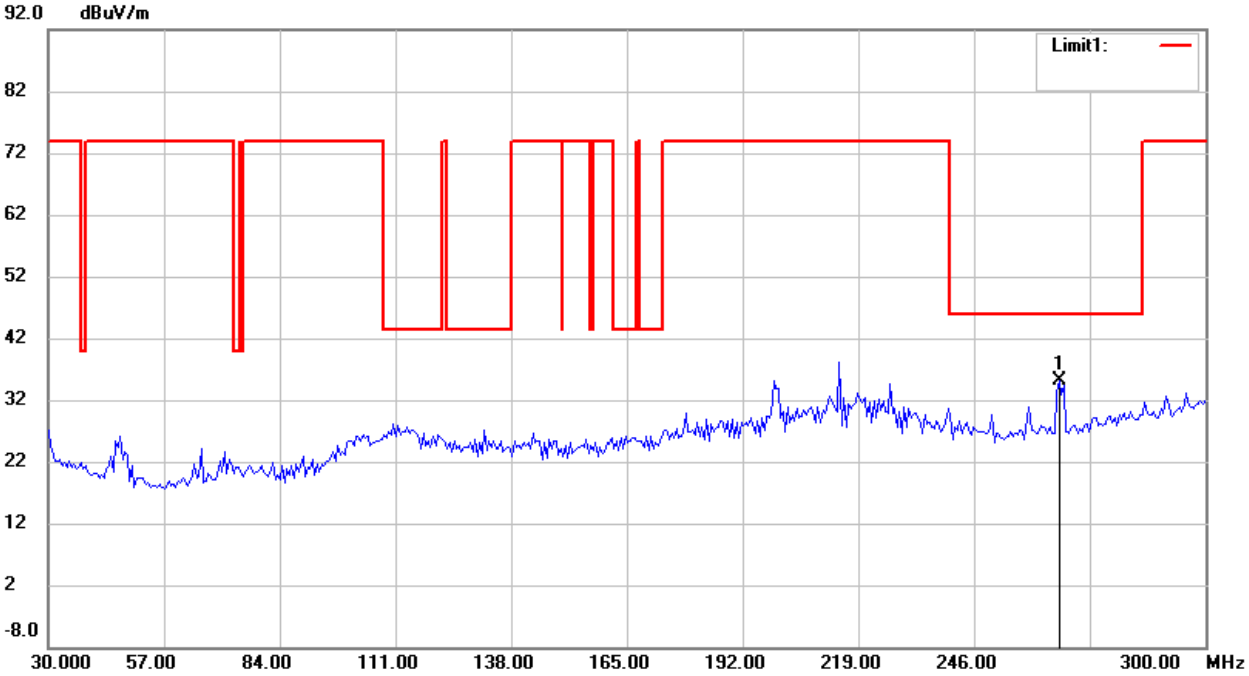
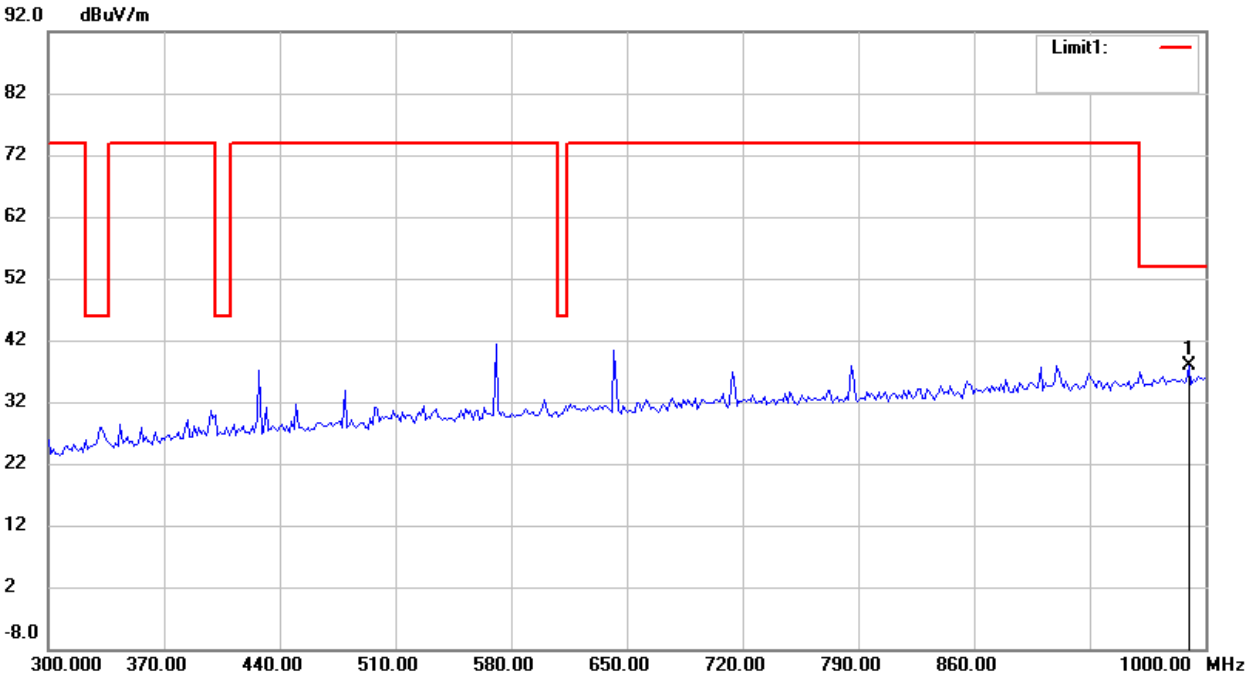
Registration number: W6M21008-10827-C-1
FCC ID: JCK-T1125

Antenna Polarization V





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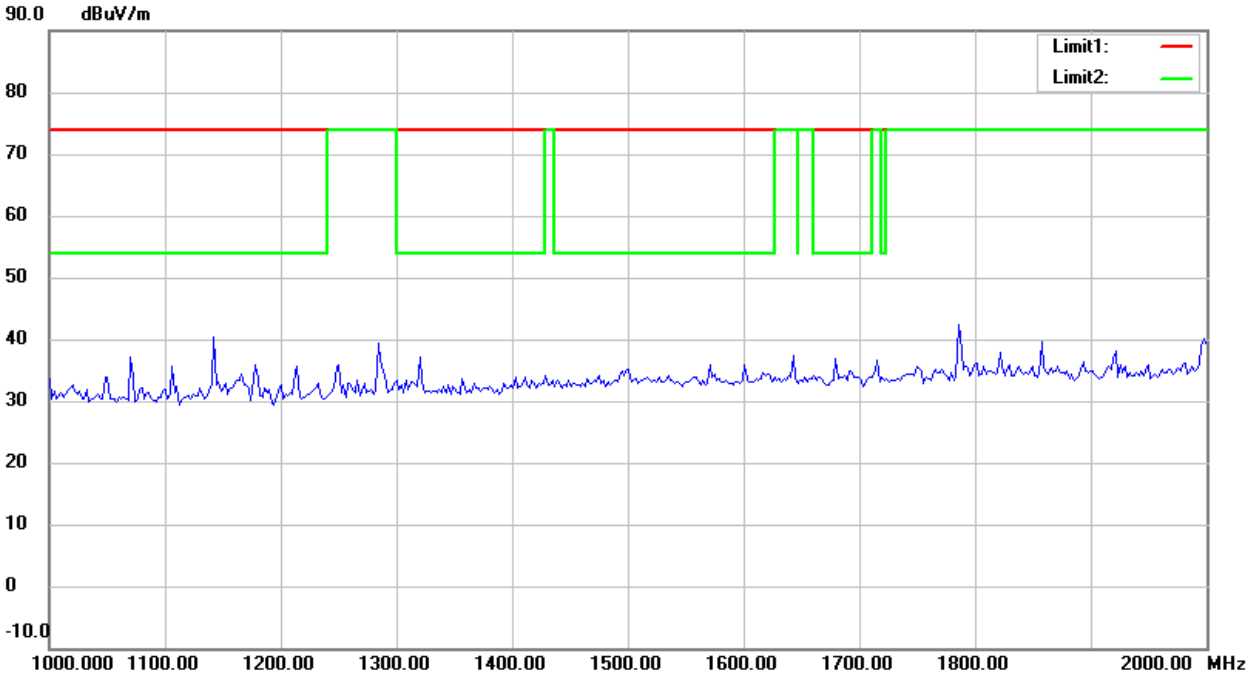

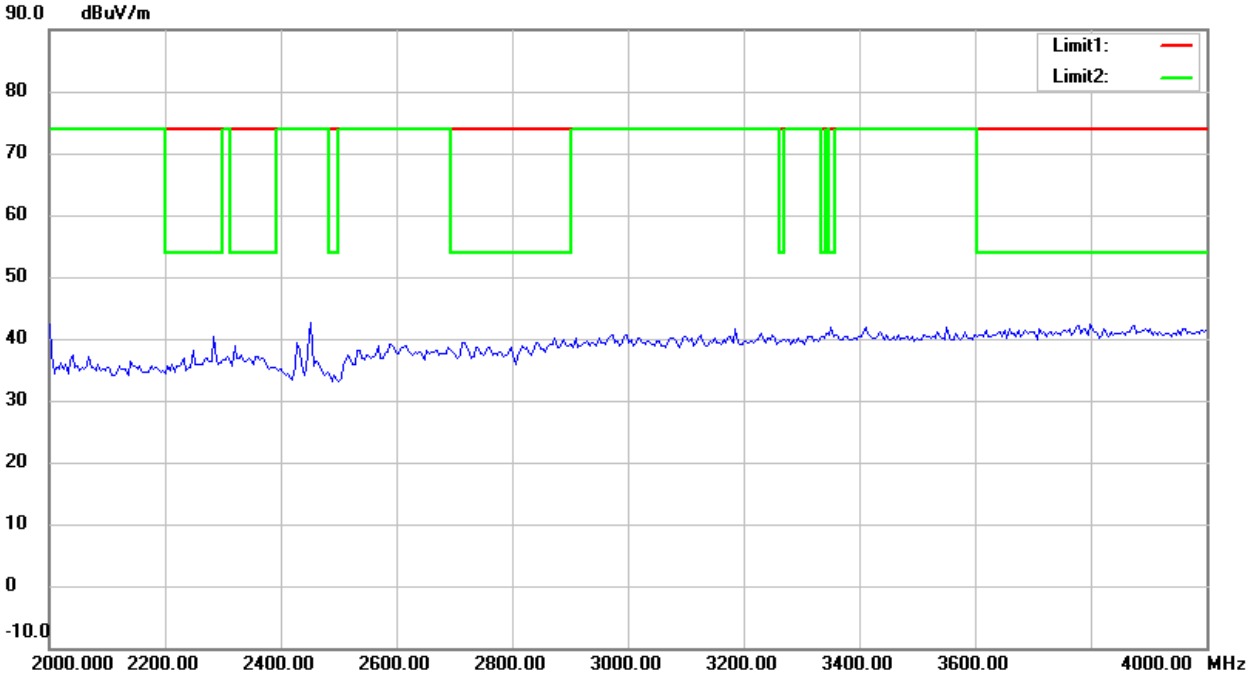

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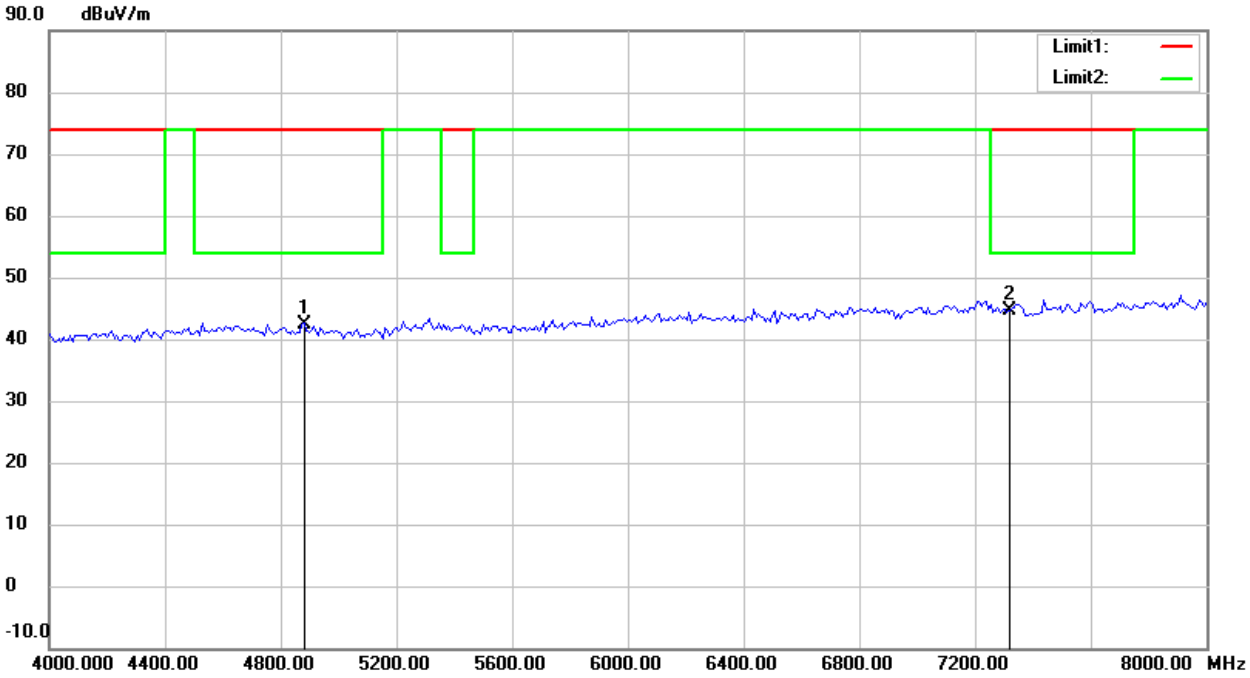

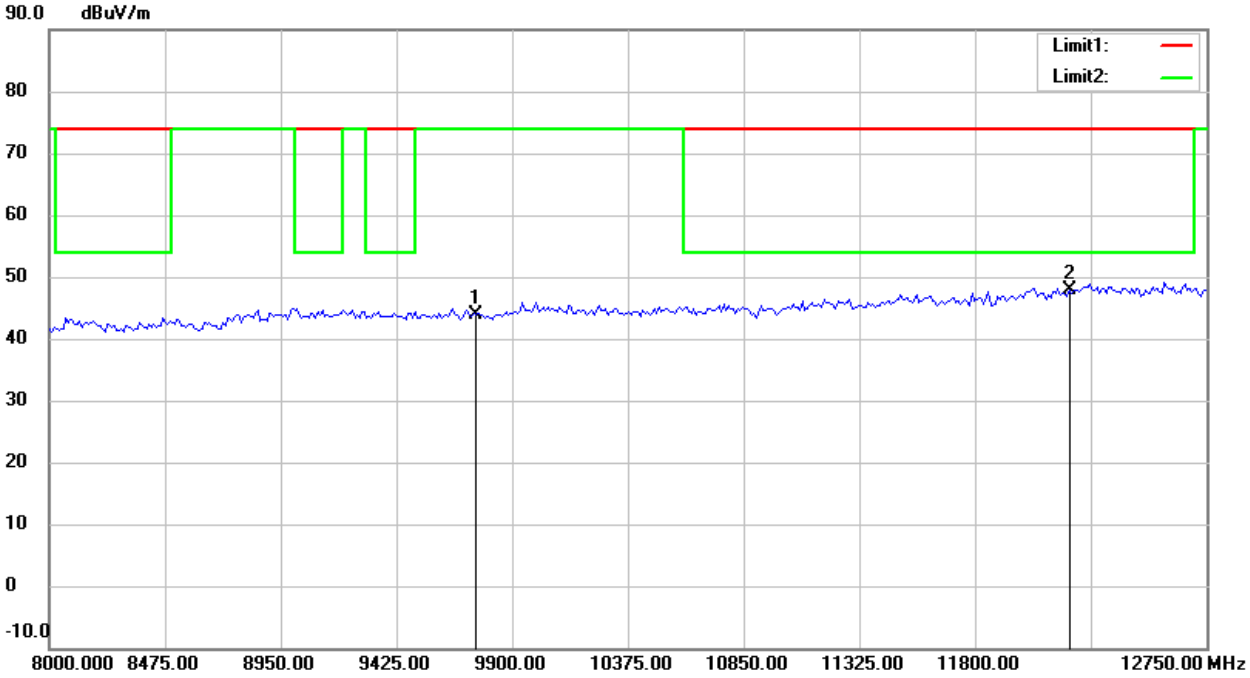

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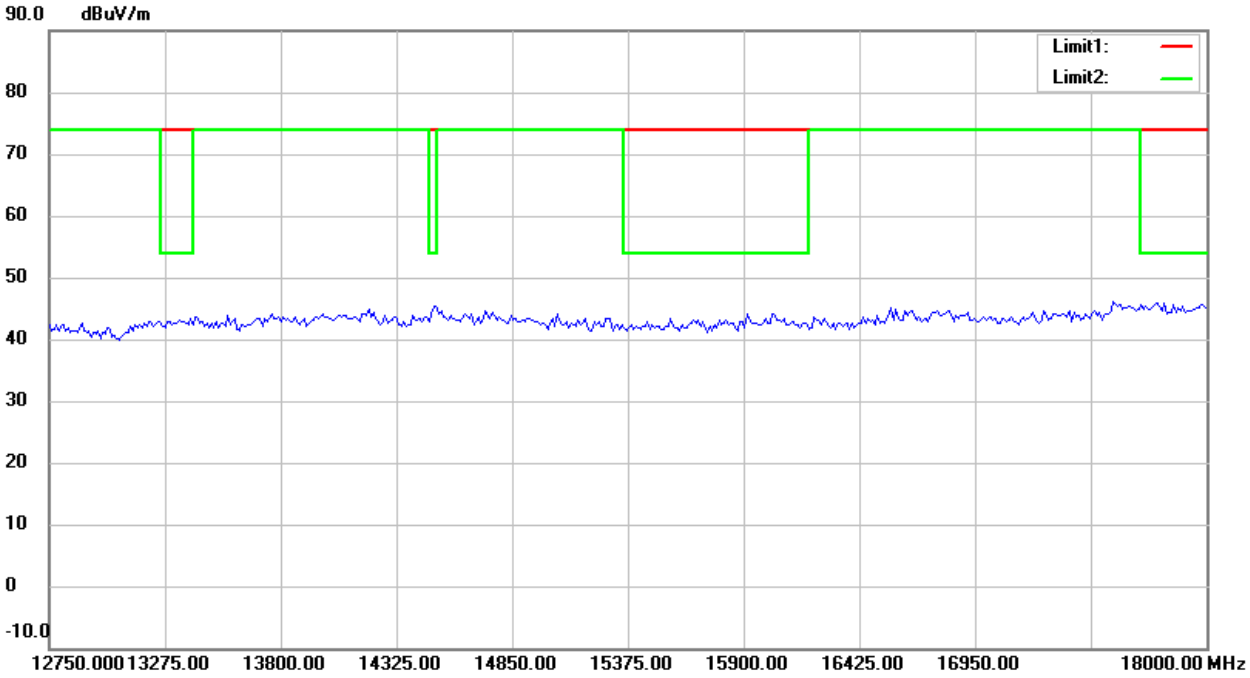

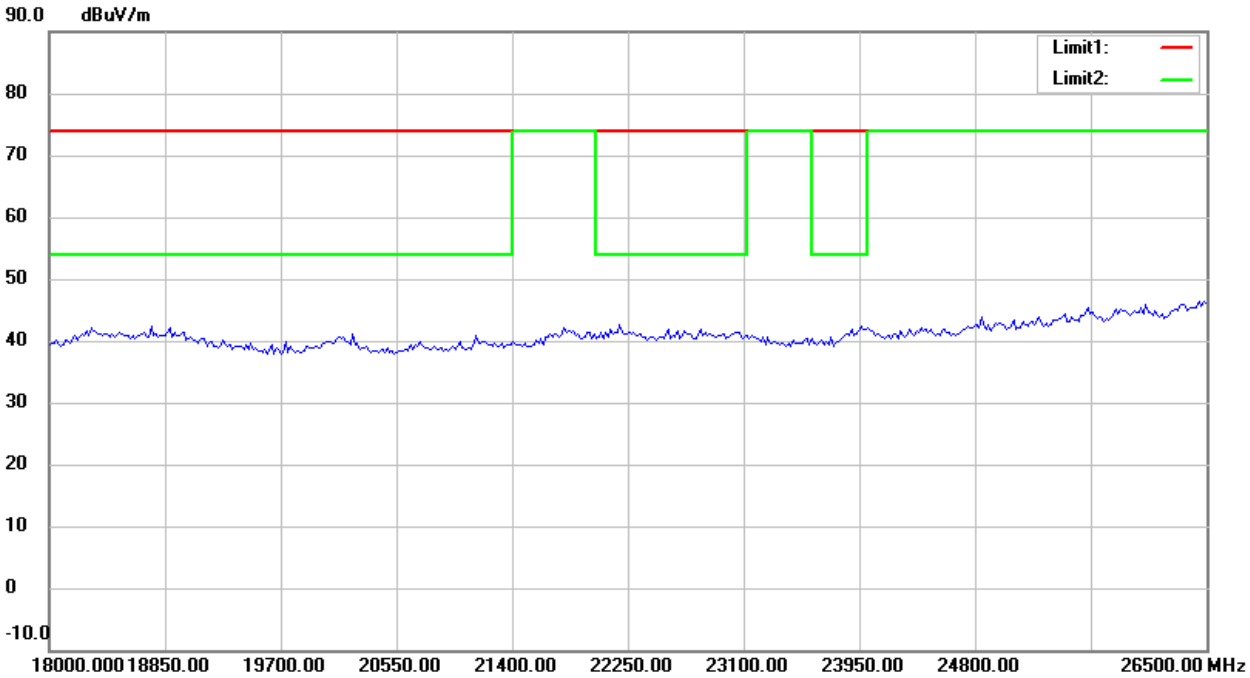

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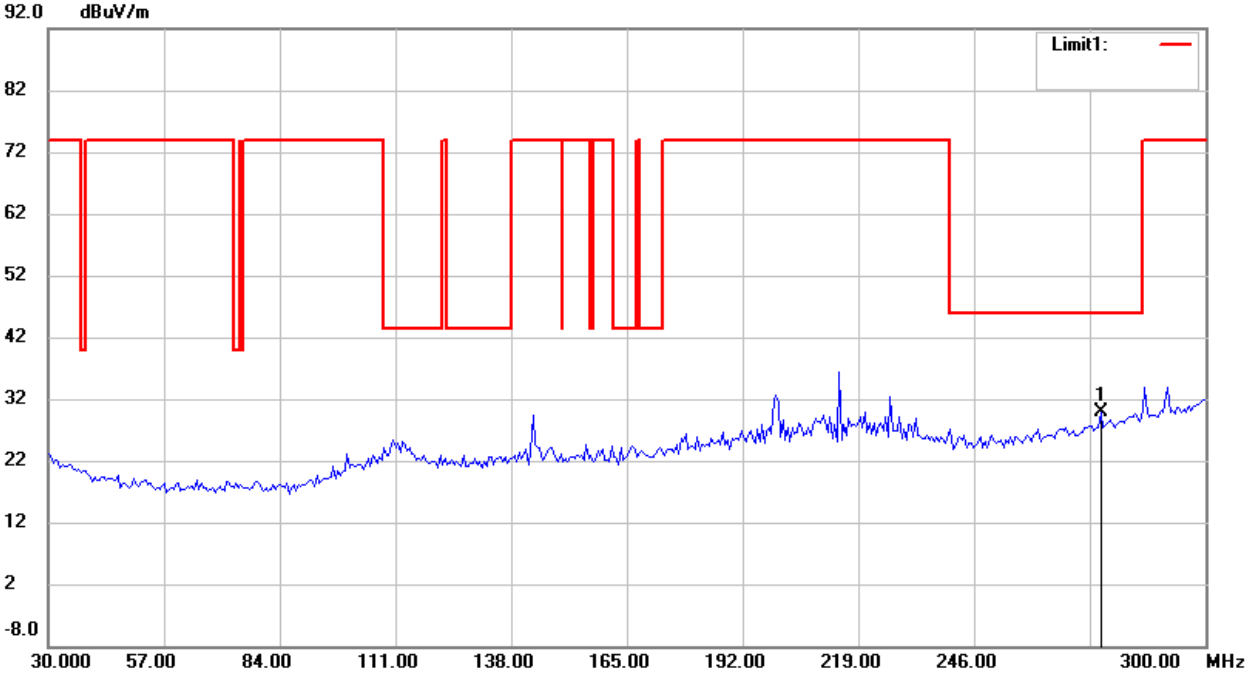
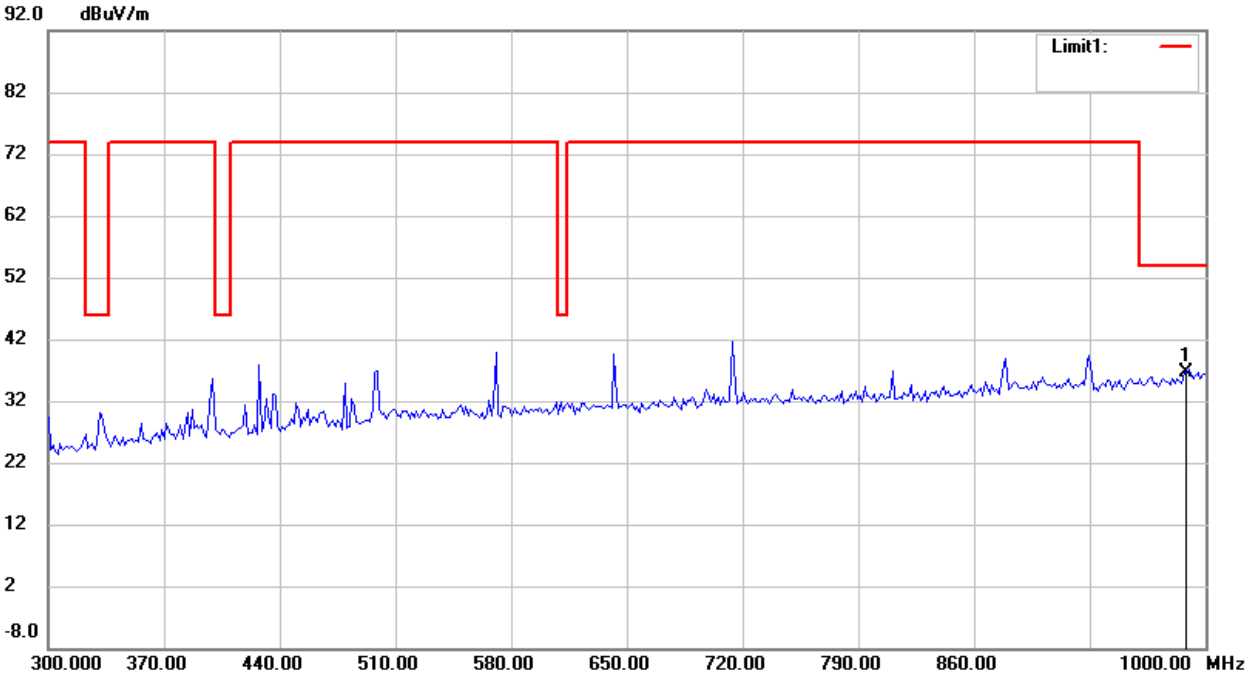
Registration number: W6M21008-10827-C-1
FCC ID: JCK-T1125

WLAN 11n40M-2452 MHz
Antenna Polarization H





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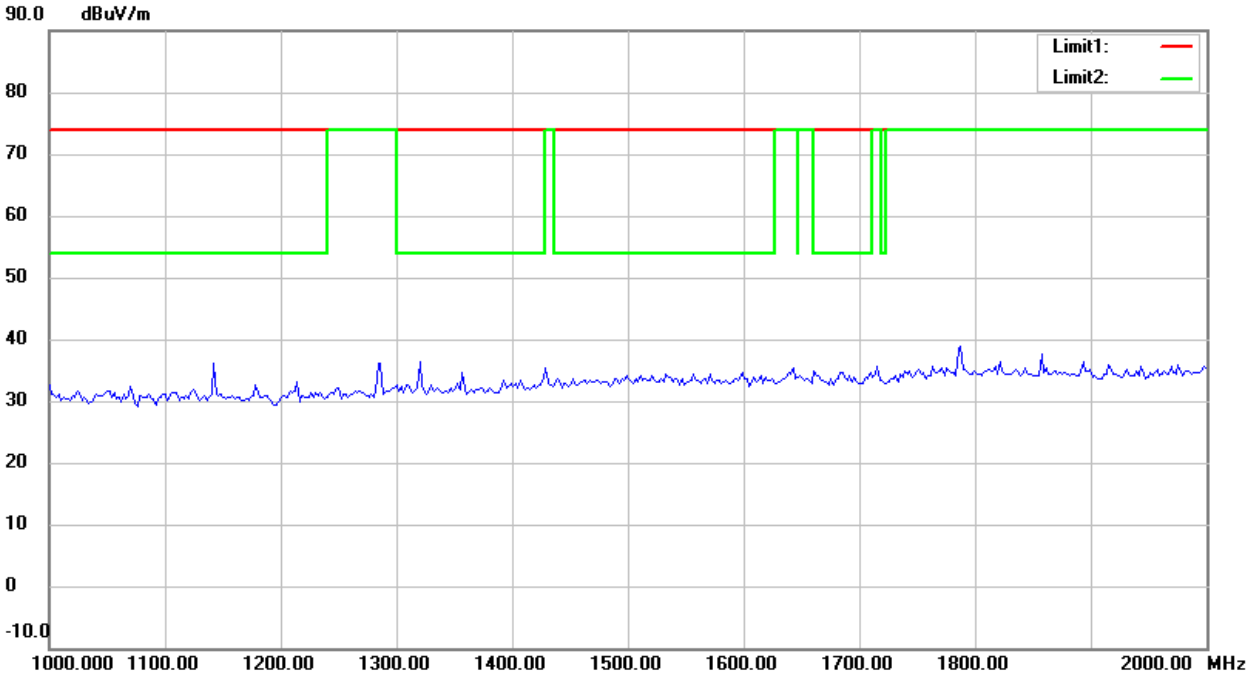

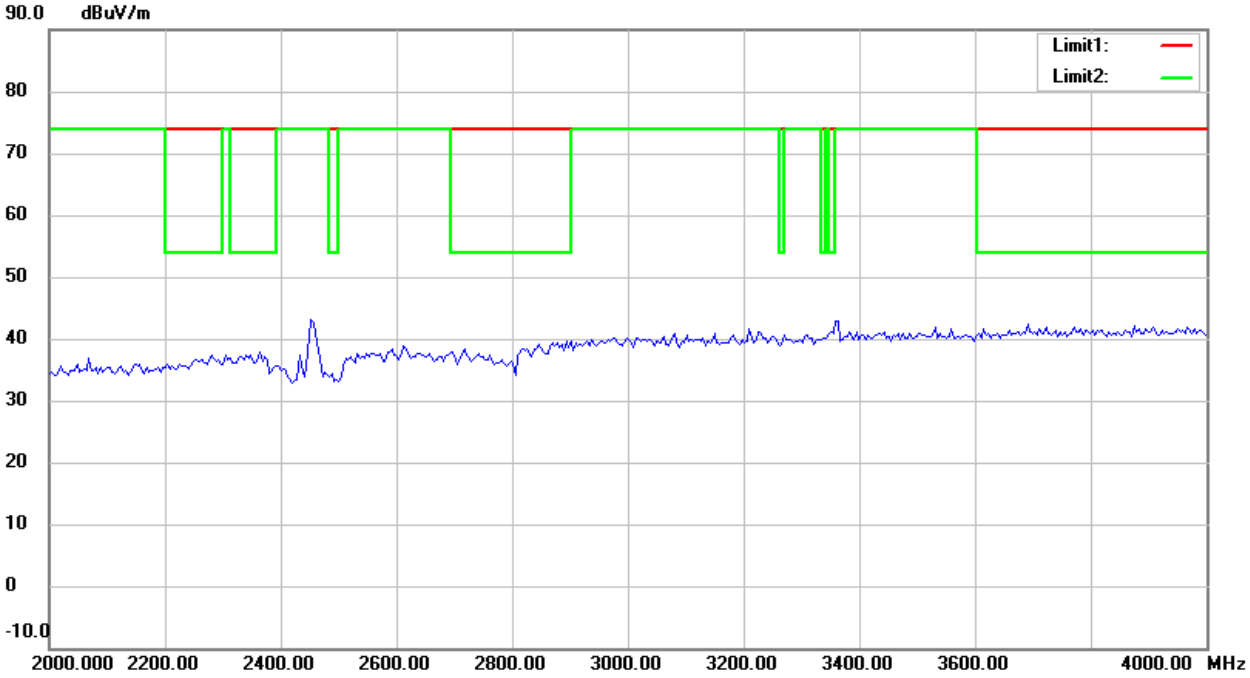

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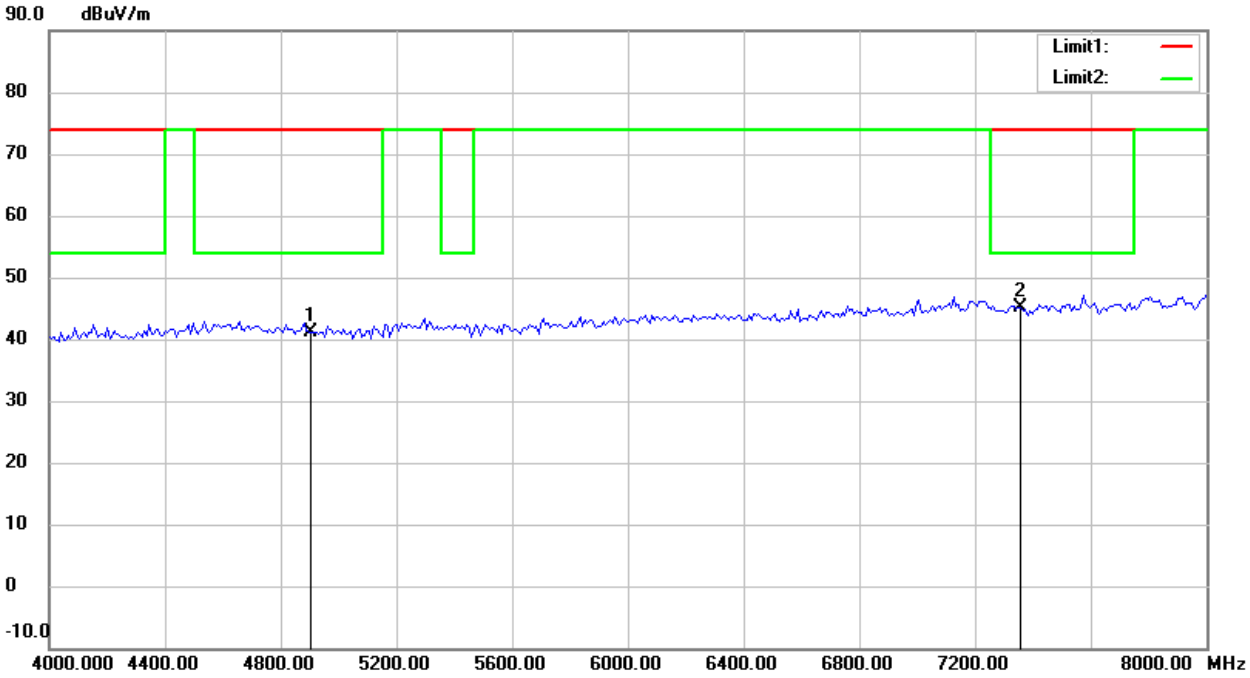

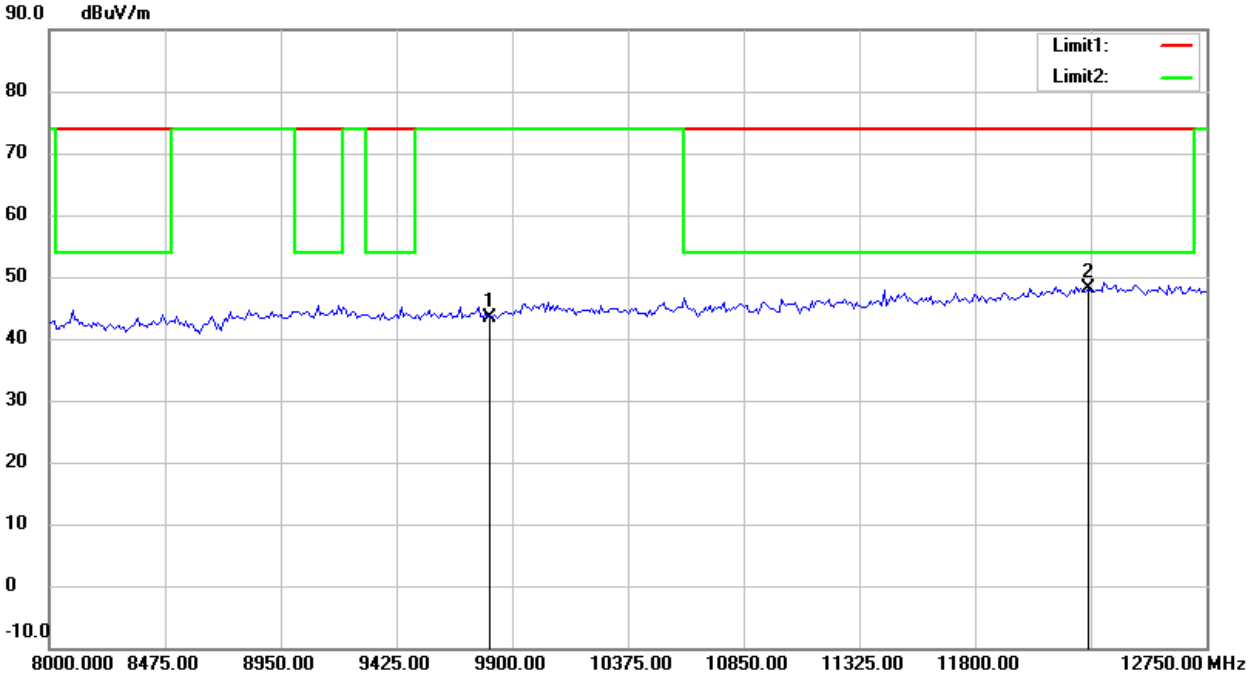

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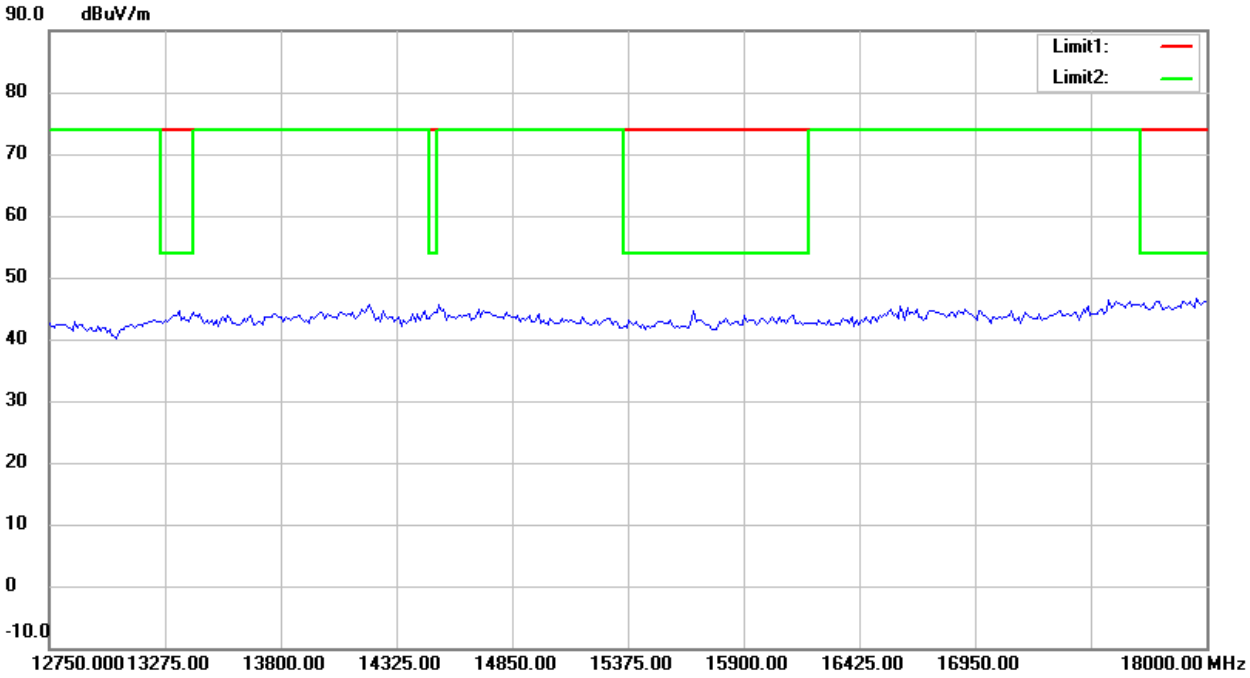

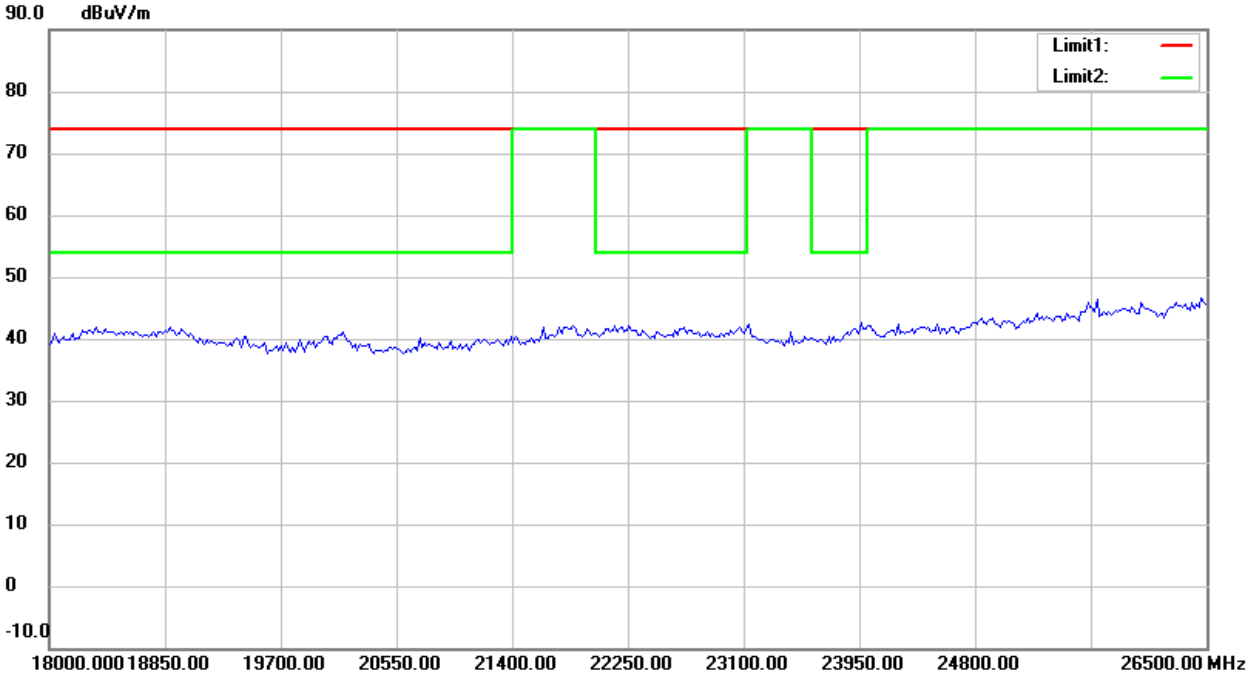

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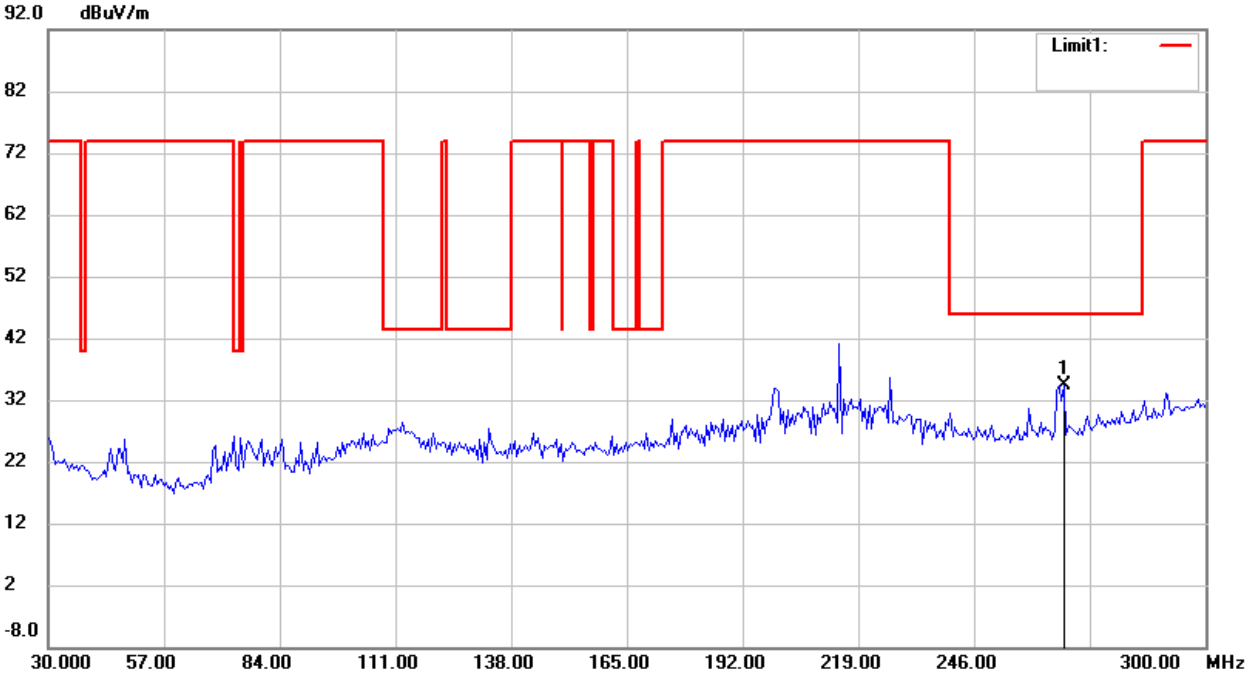
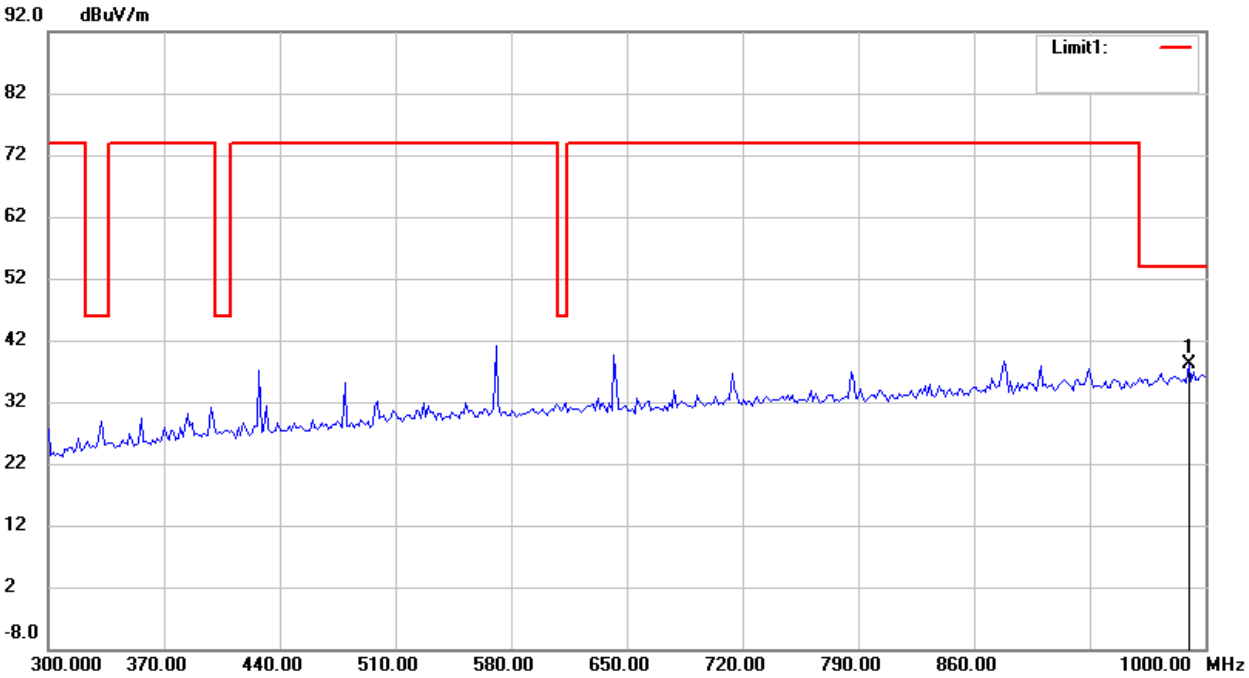
Registration number: W6M21008-10827-C-1
FCC ID: JCK-T1125

Antenna Polarization V





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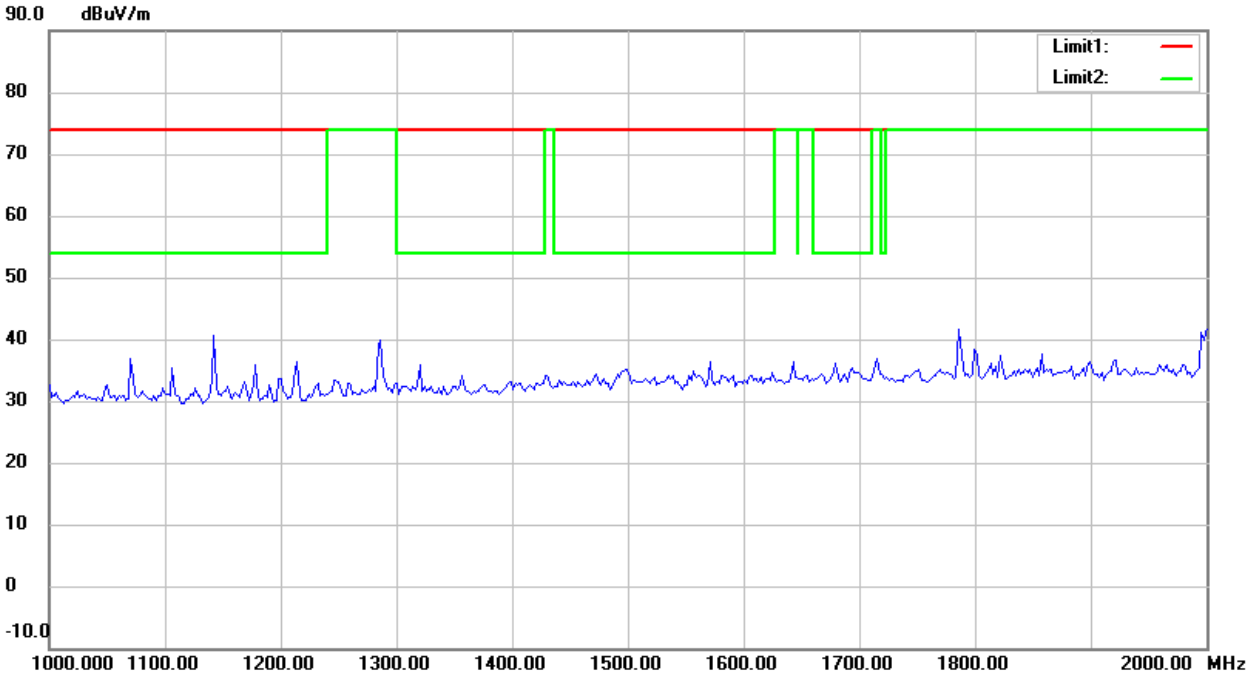

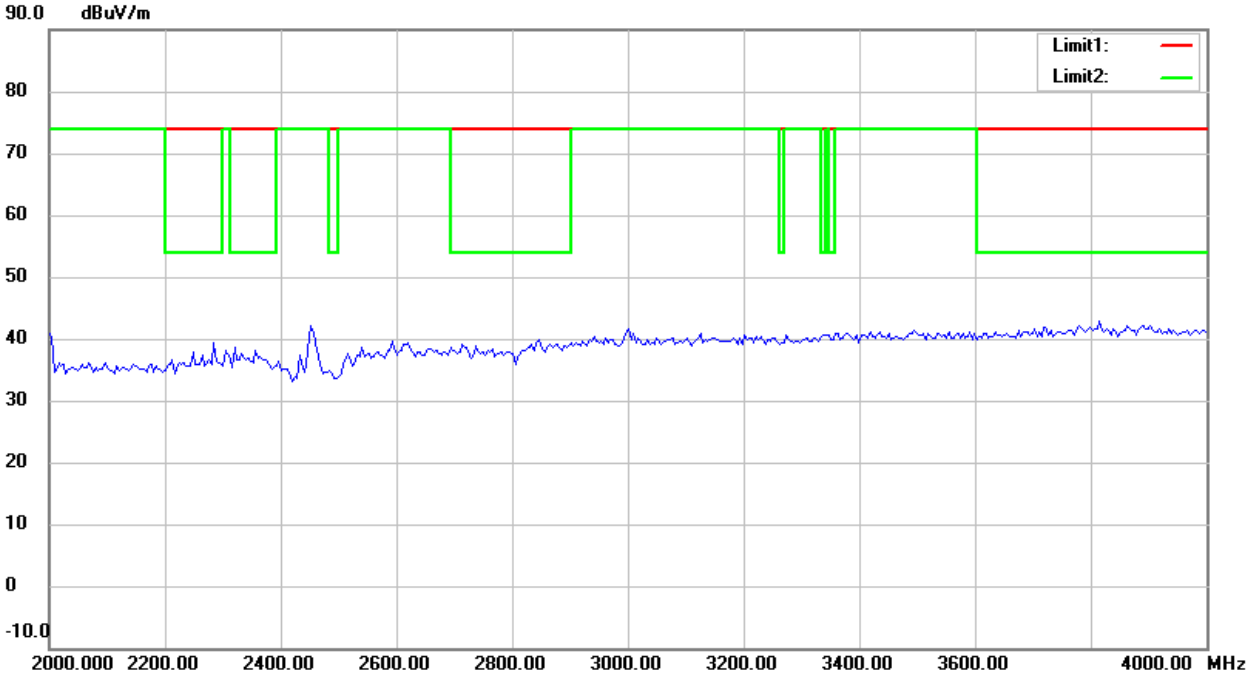

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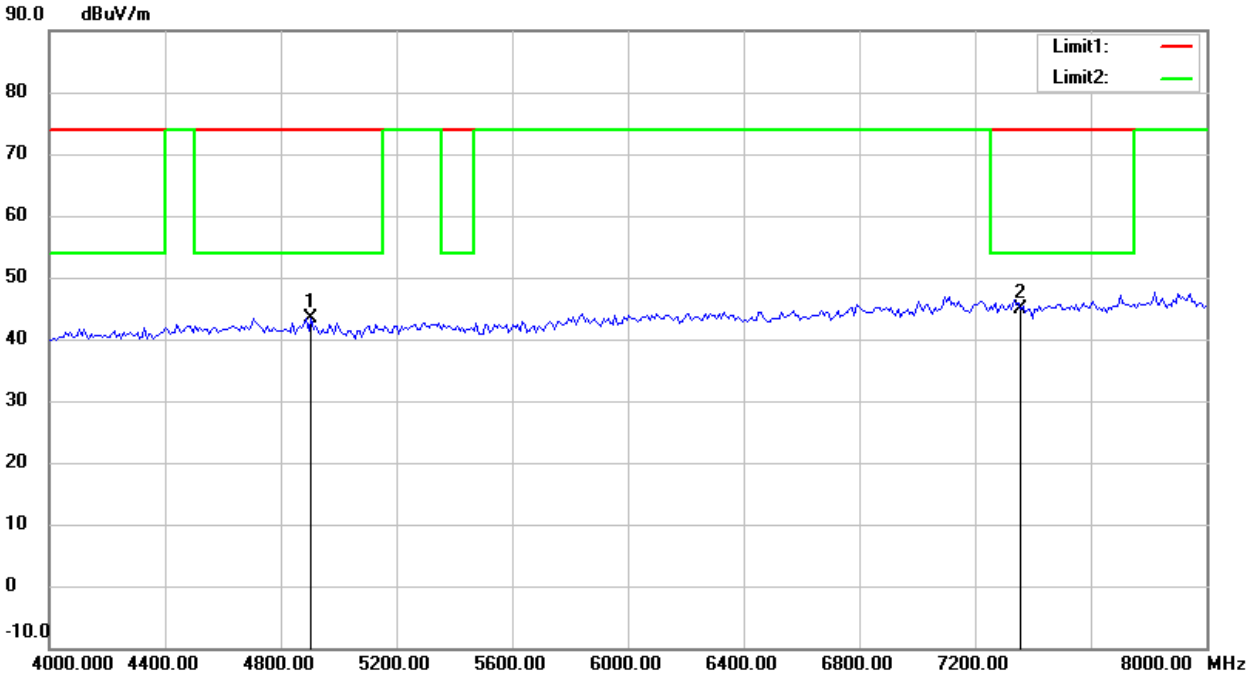
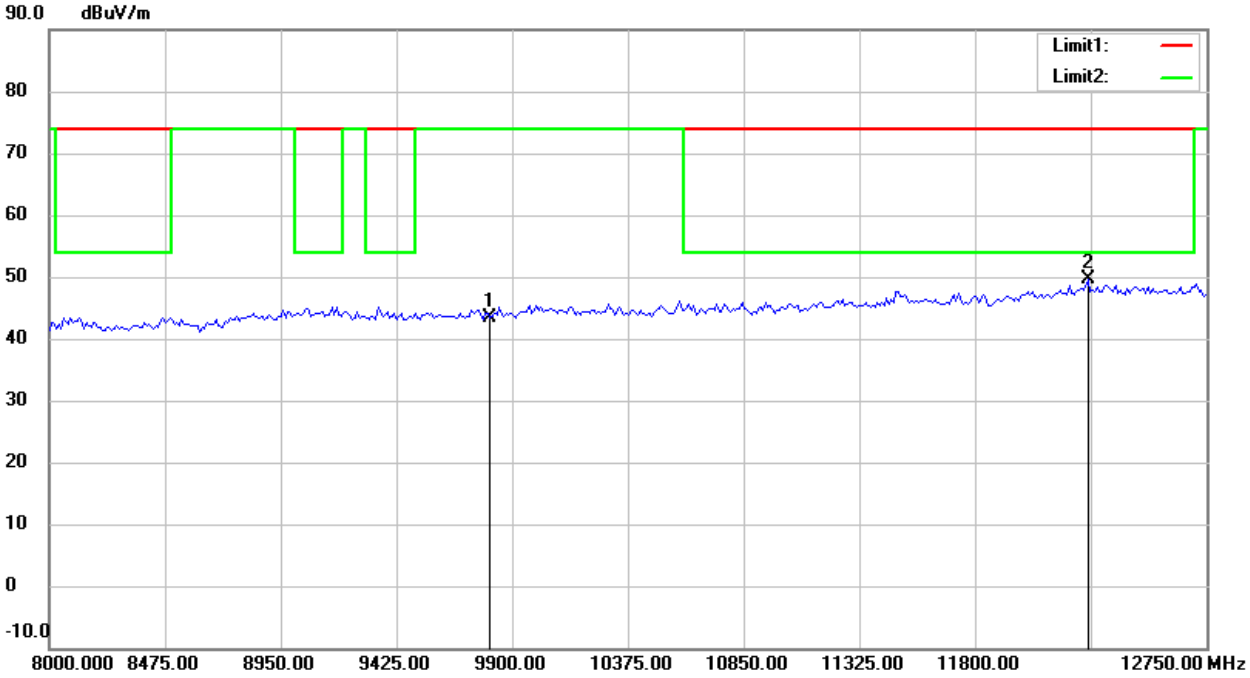
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**





Note:
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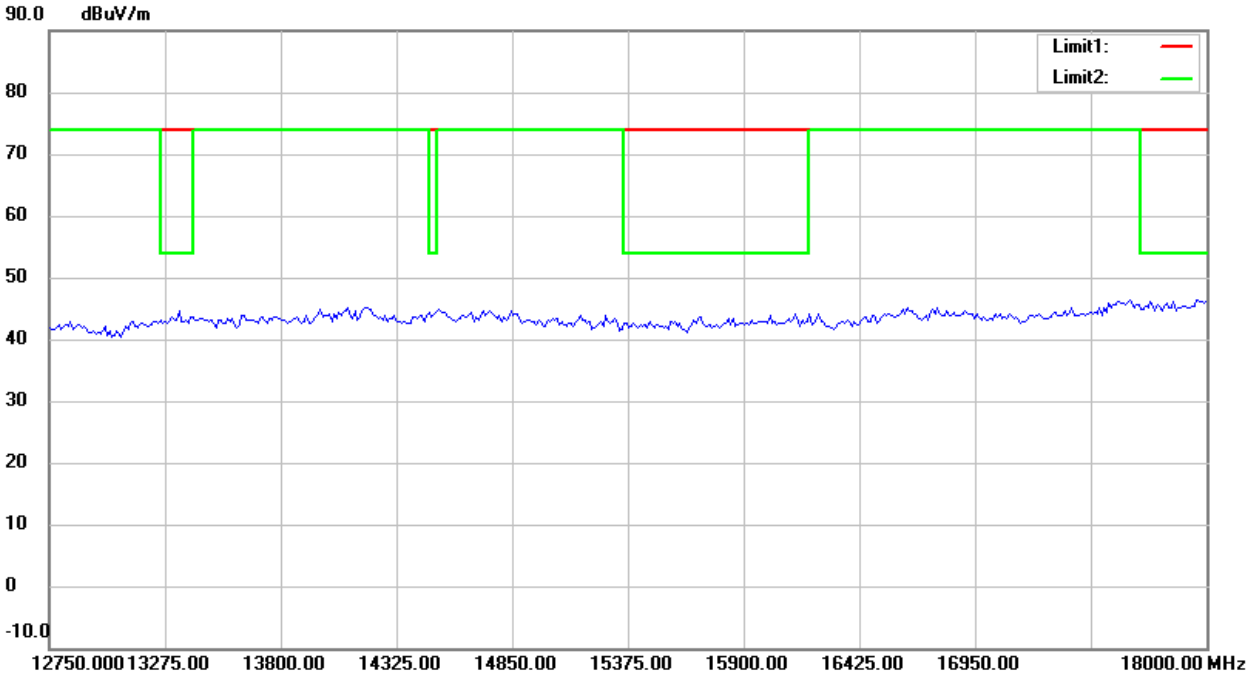

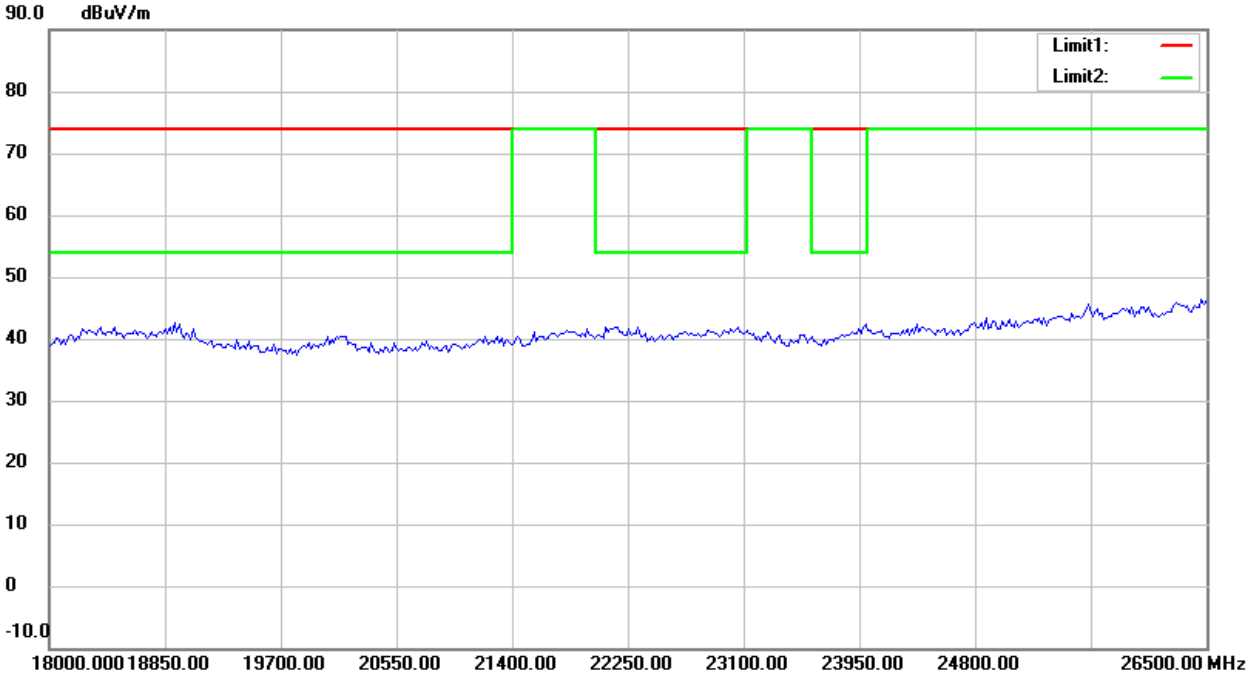

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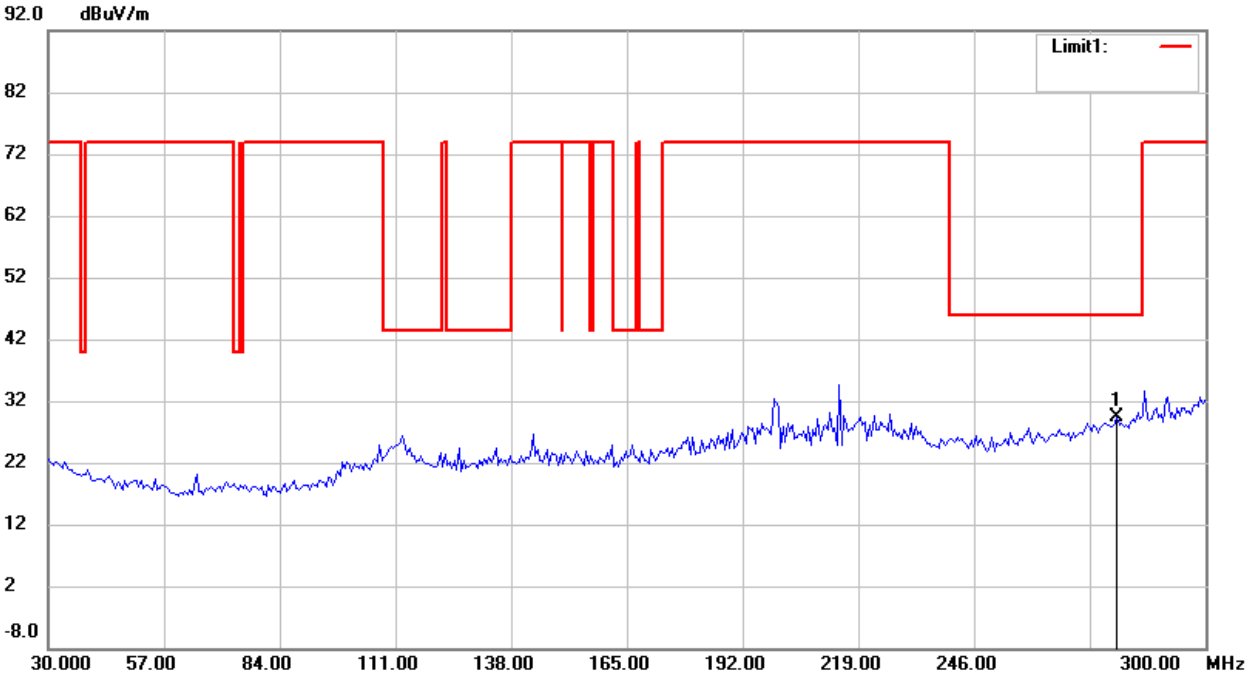
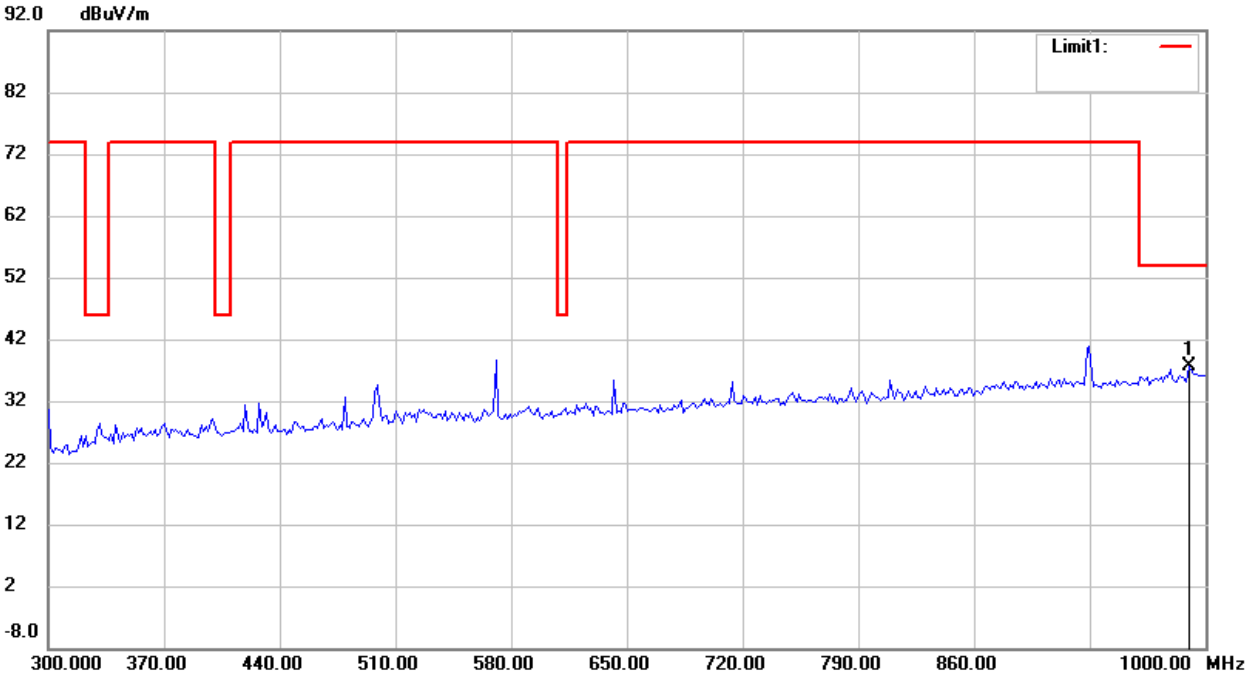
Registration number: W6M21008-10827-C-1
FCC ID: JCK-T1125

Bluetooth 2402 MHz
Antenna Polarization H





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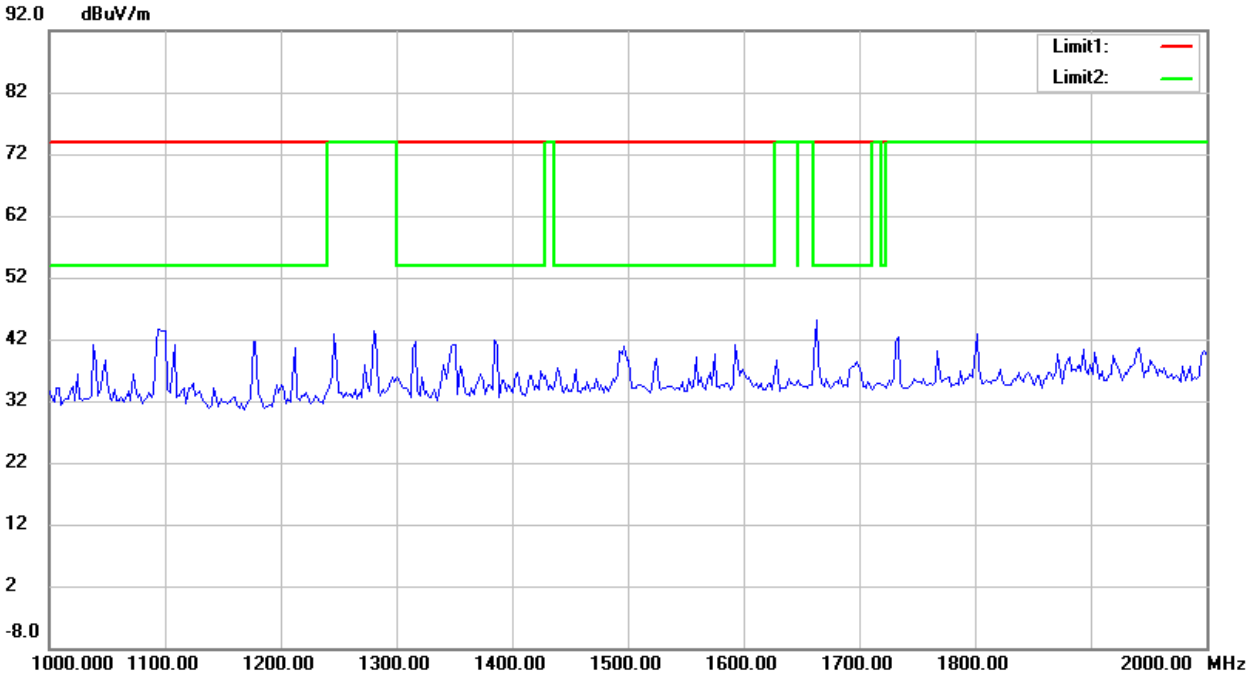

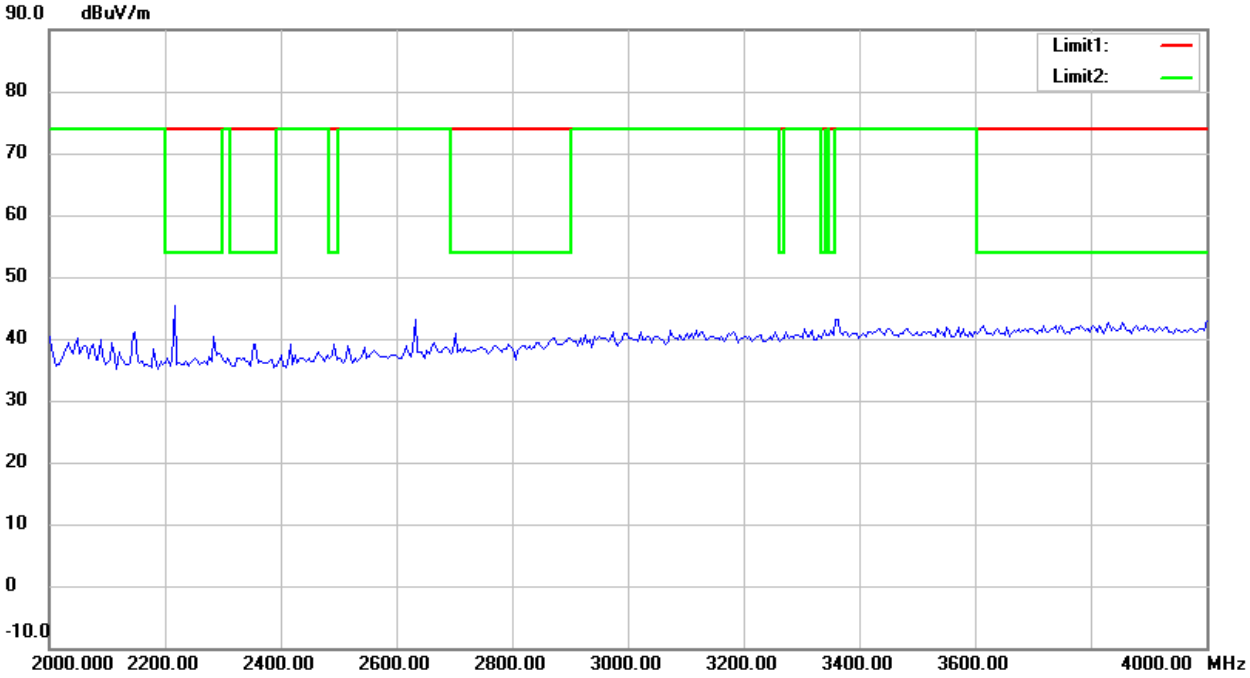

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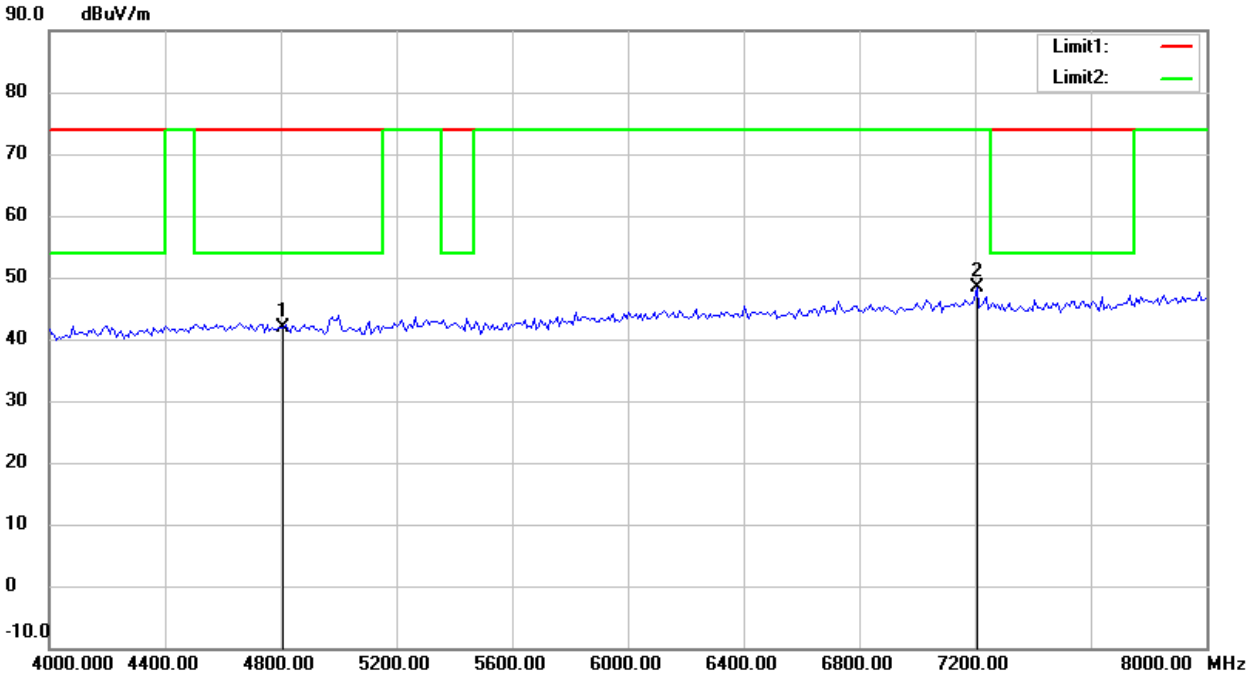

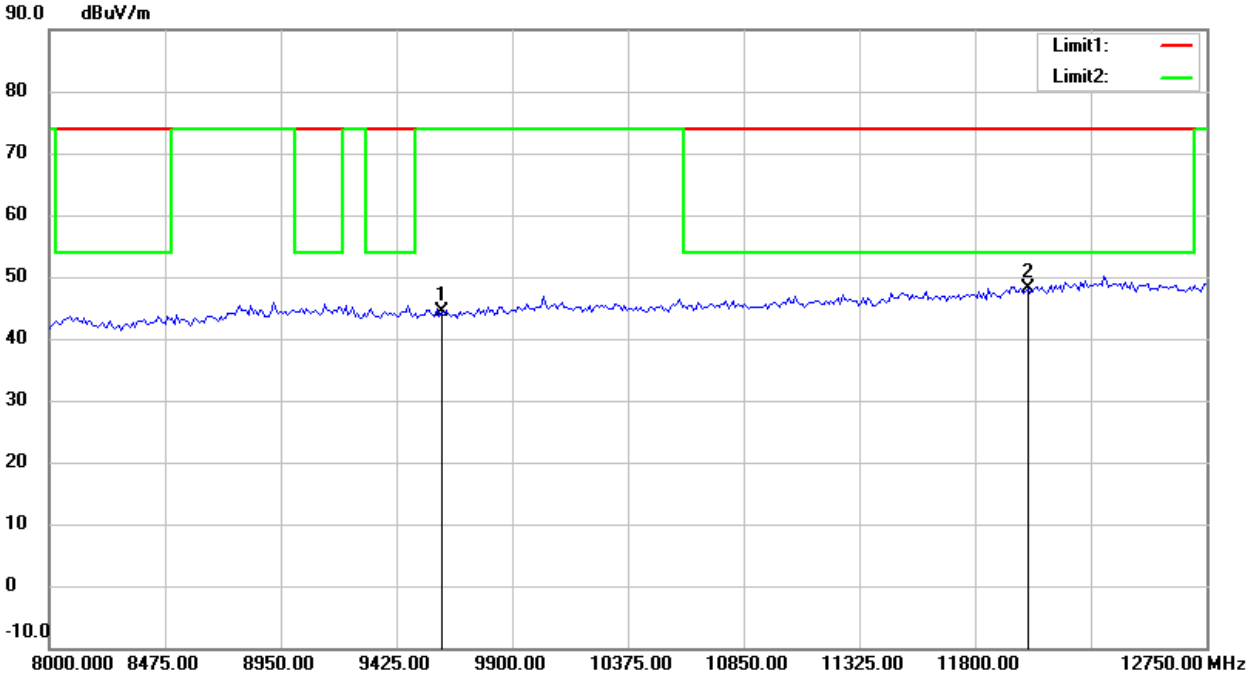

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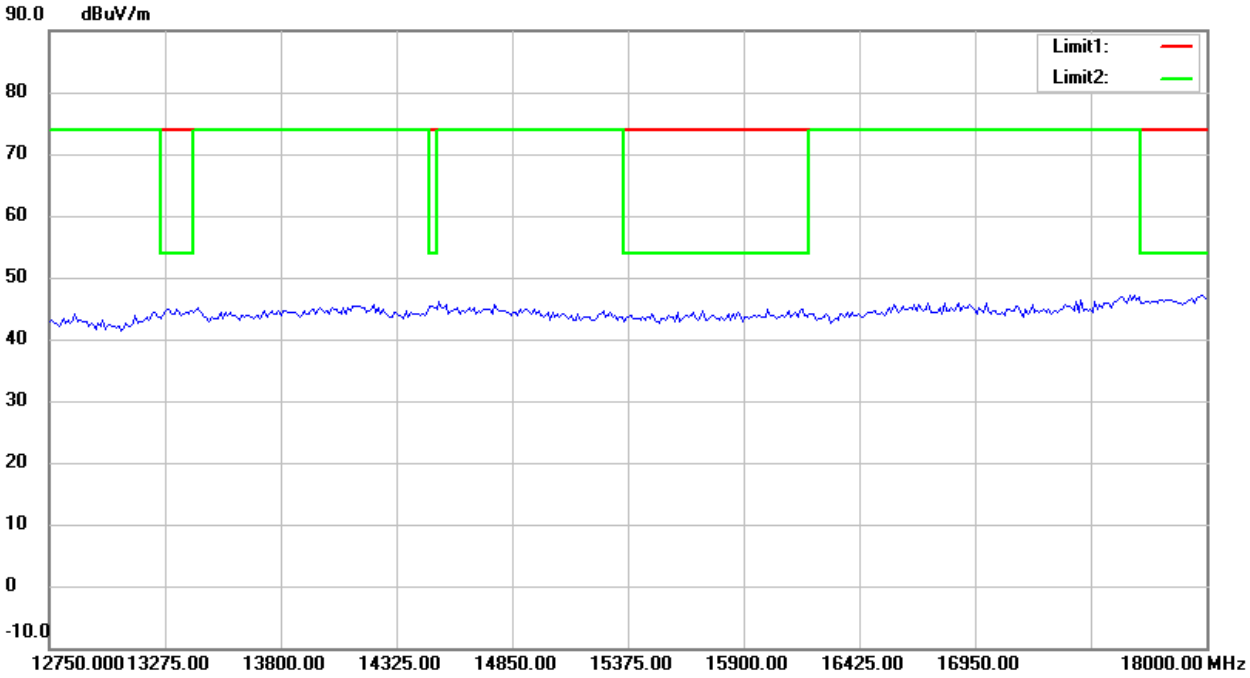

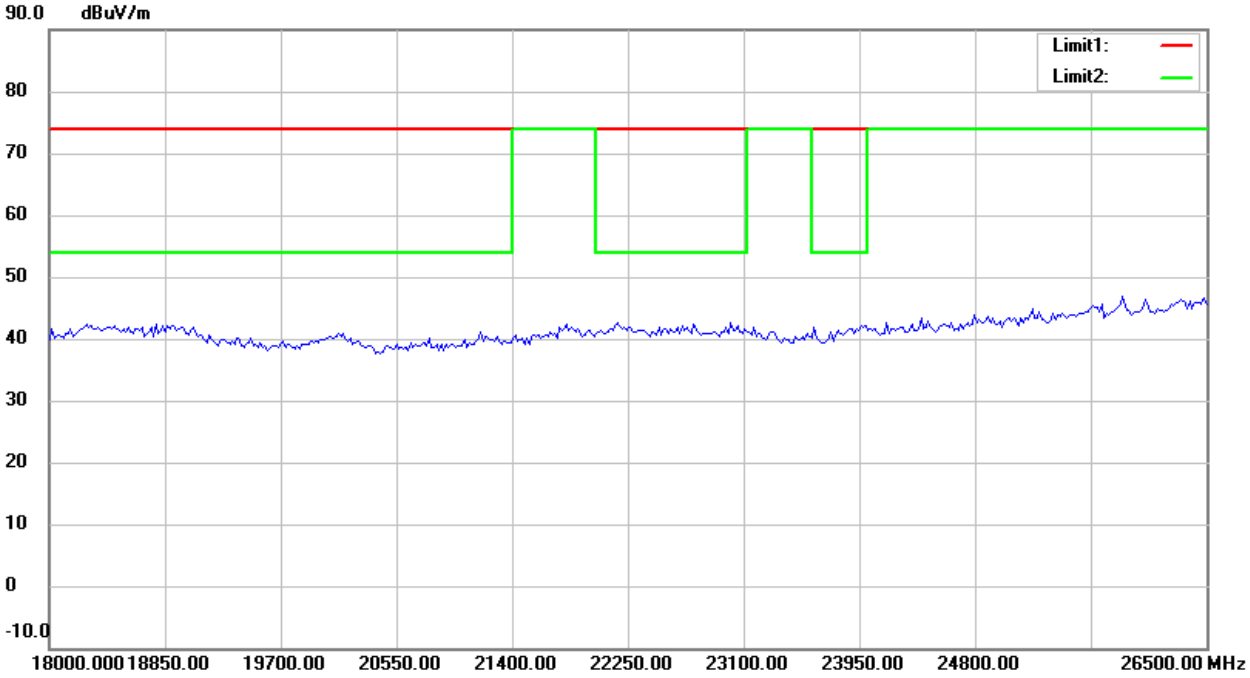

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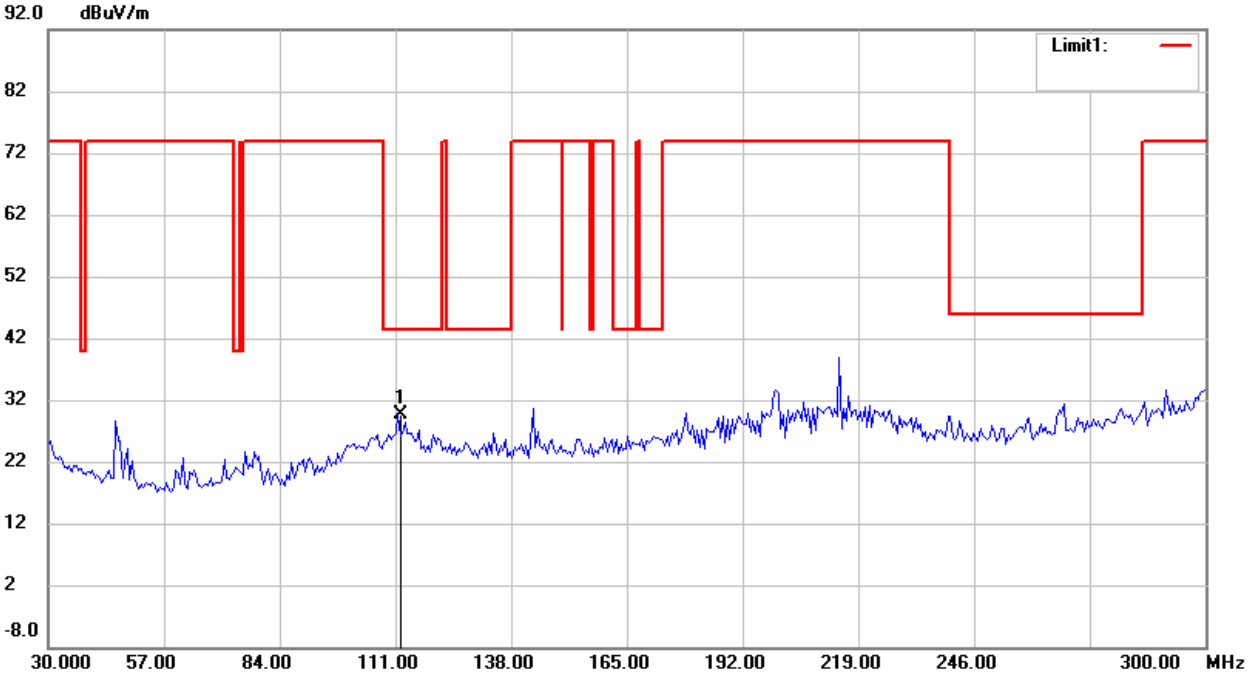
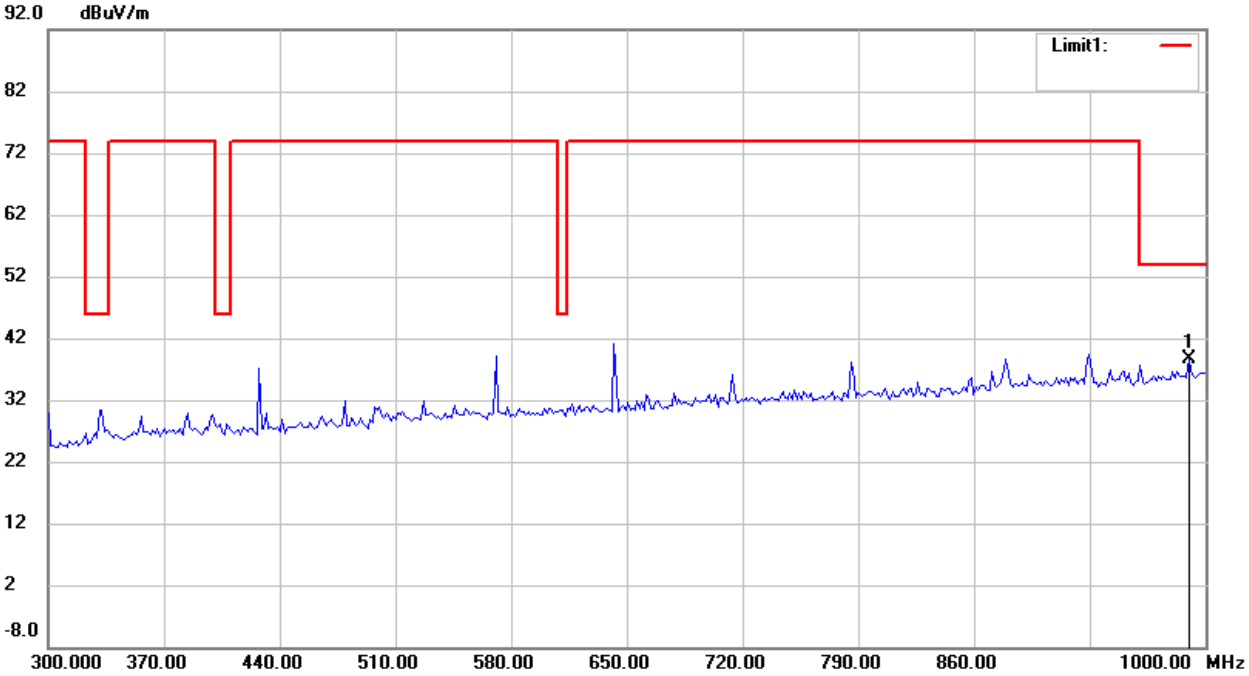
Antenna Polarization V





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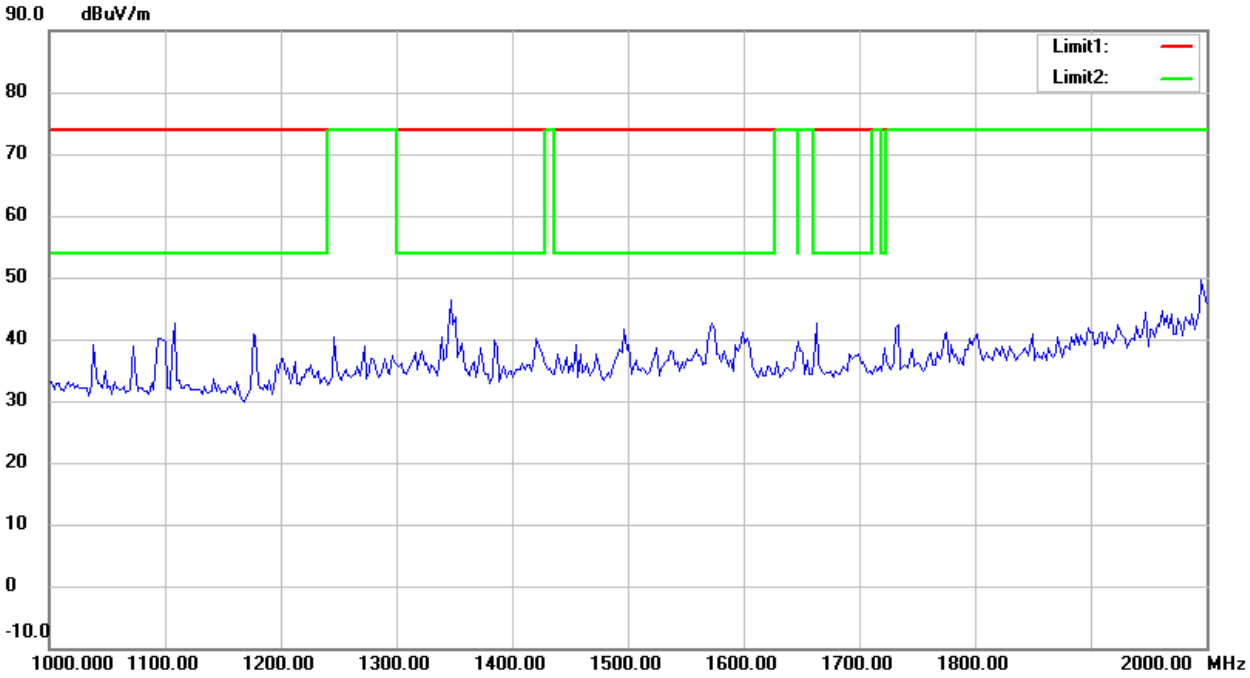

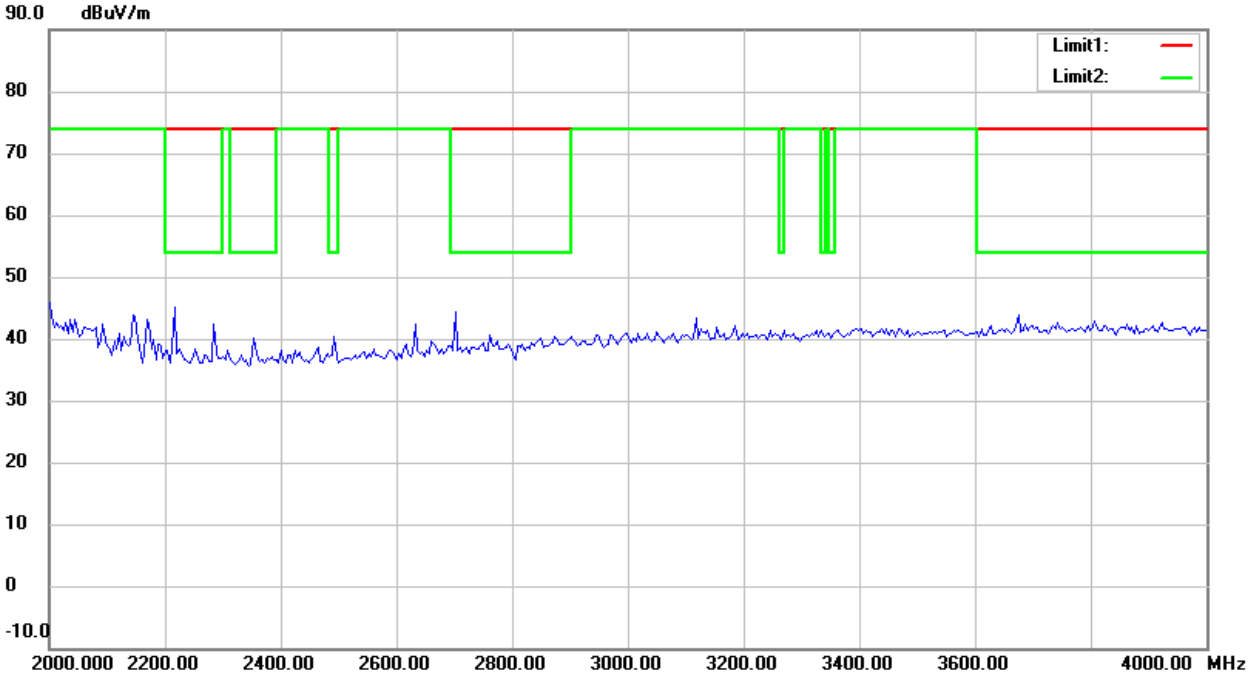

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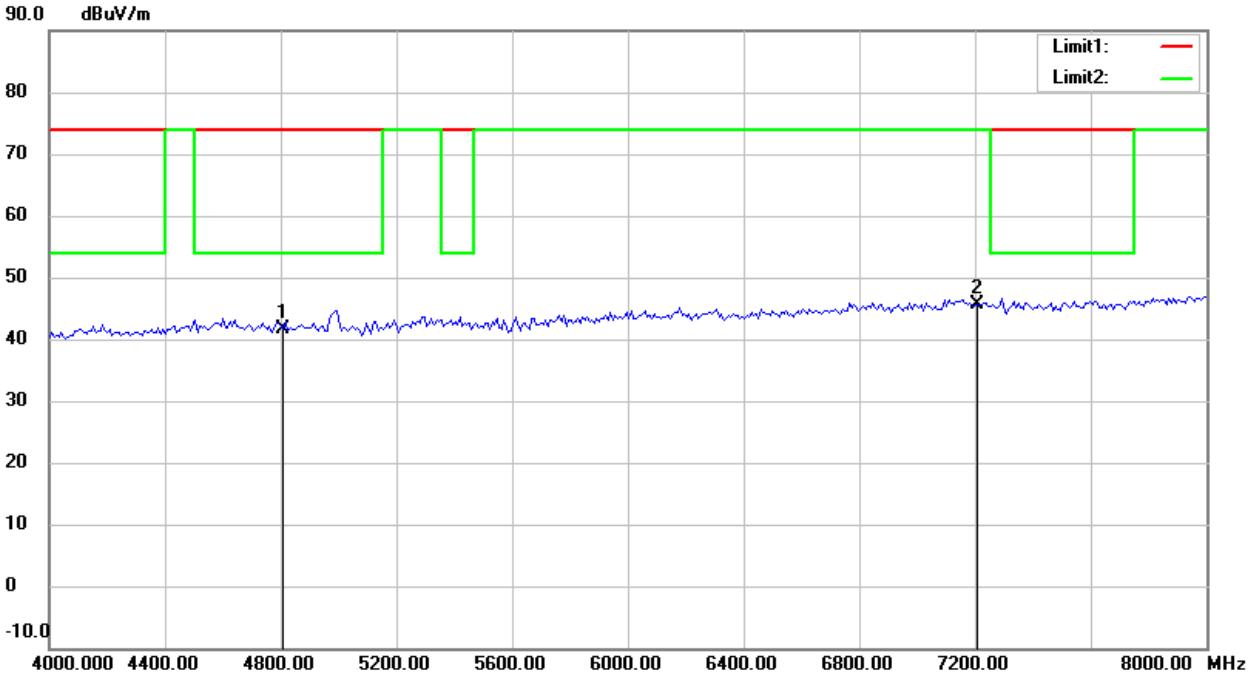

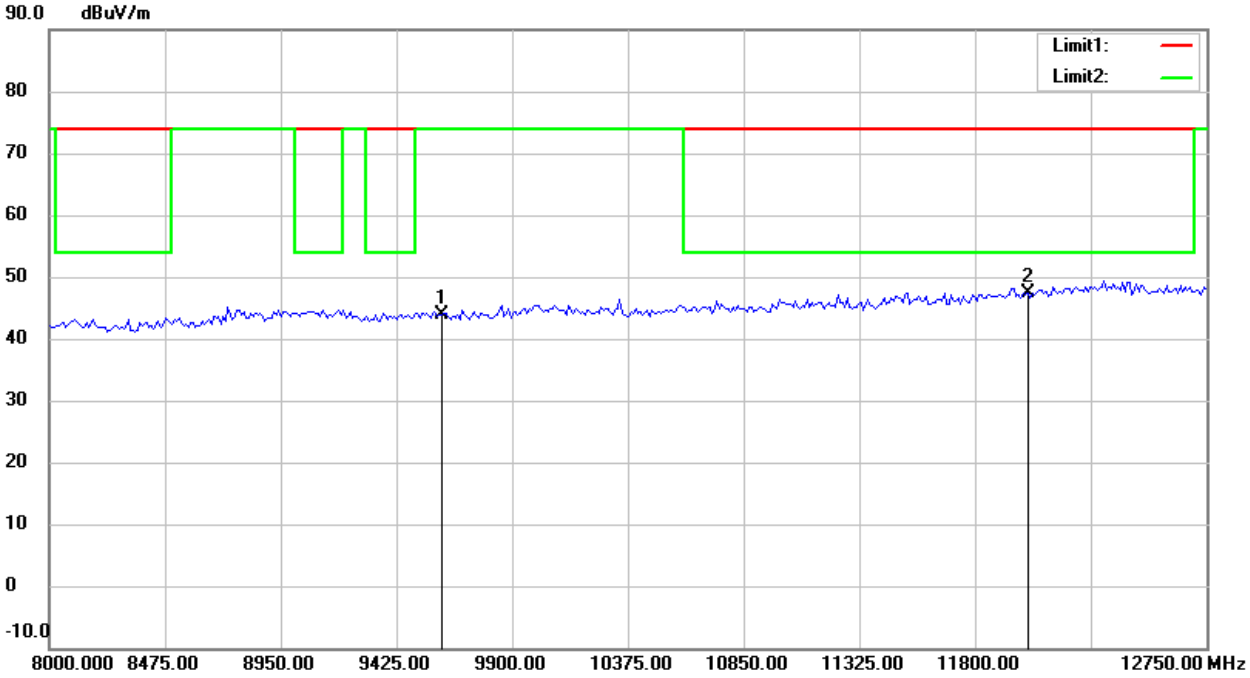

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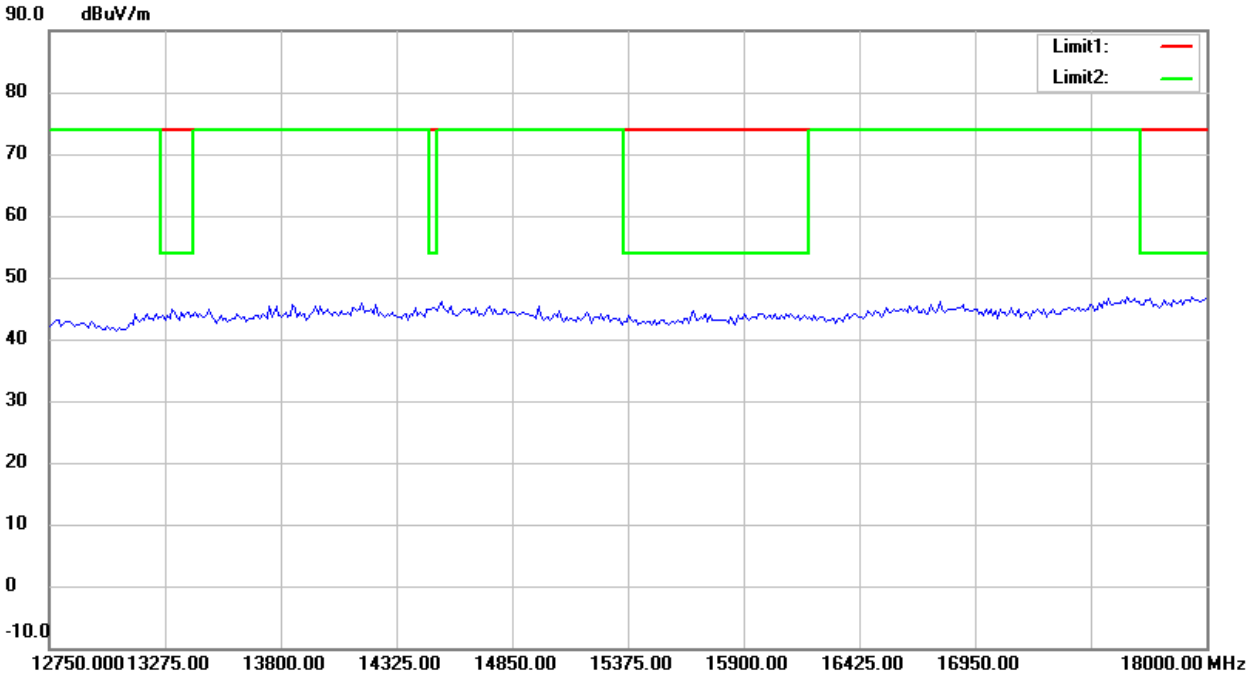

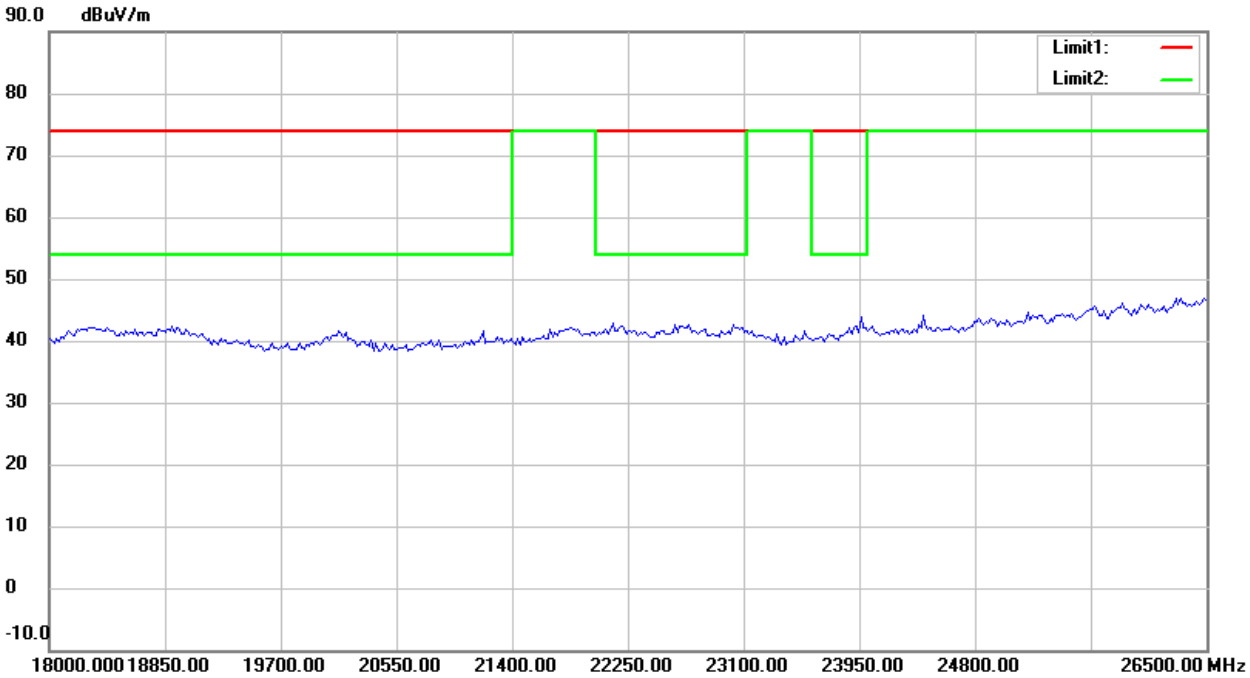

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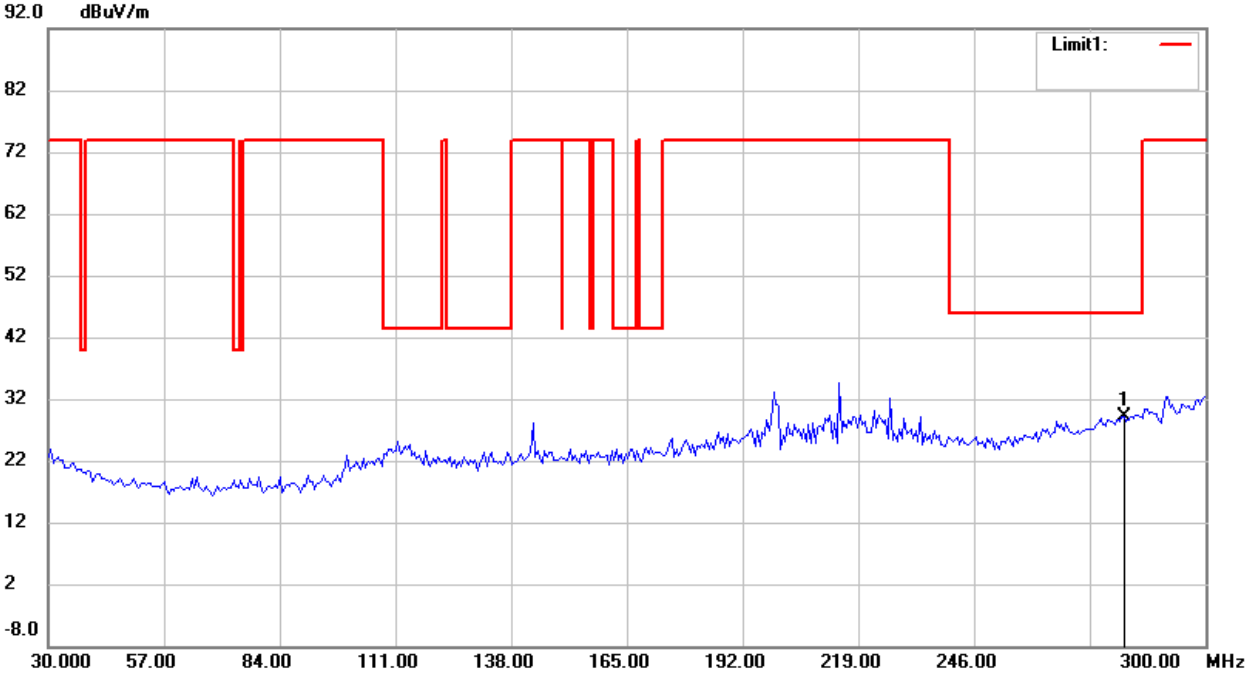
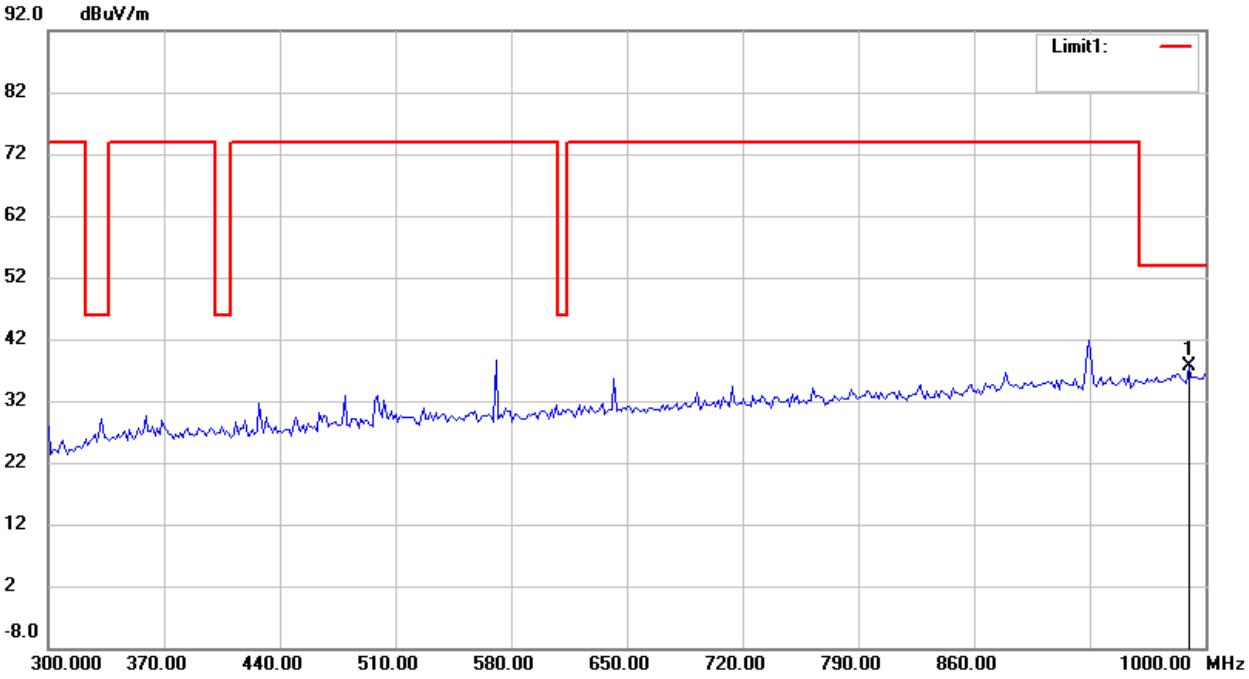
Registration number: W6M21008-10827-C-1
FCC ID: JCK-T1125

Bluetooth 2441 MHz
Antenna Polarization H





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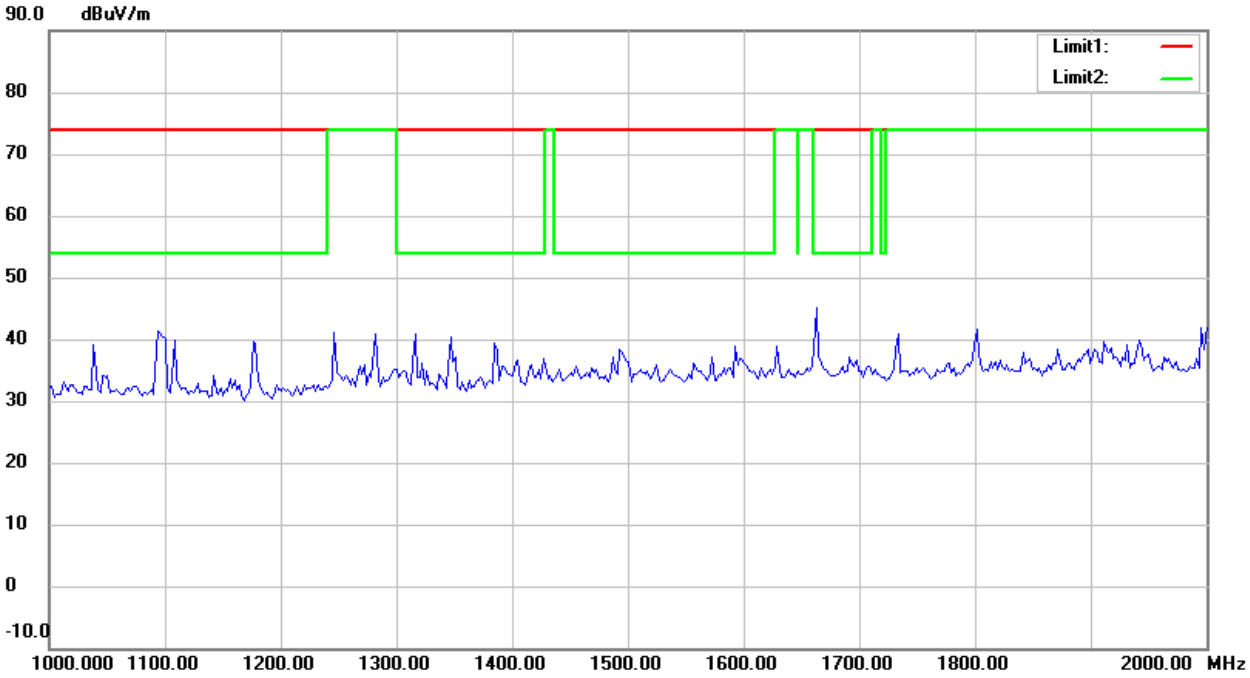

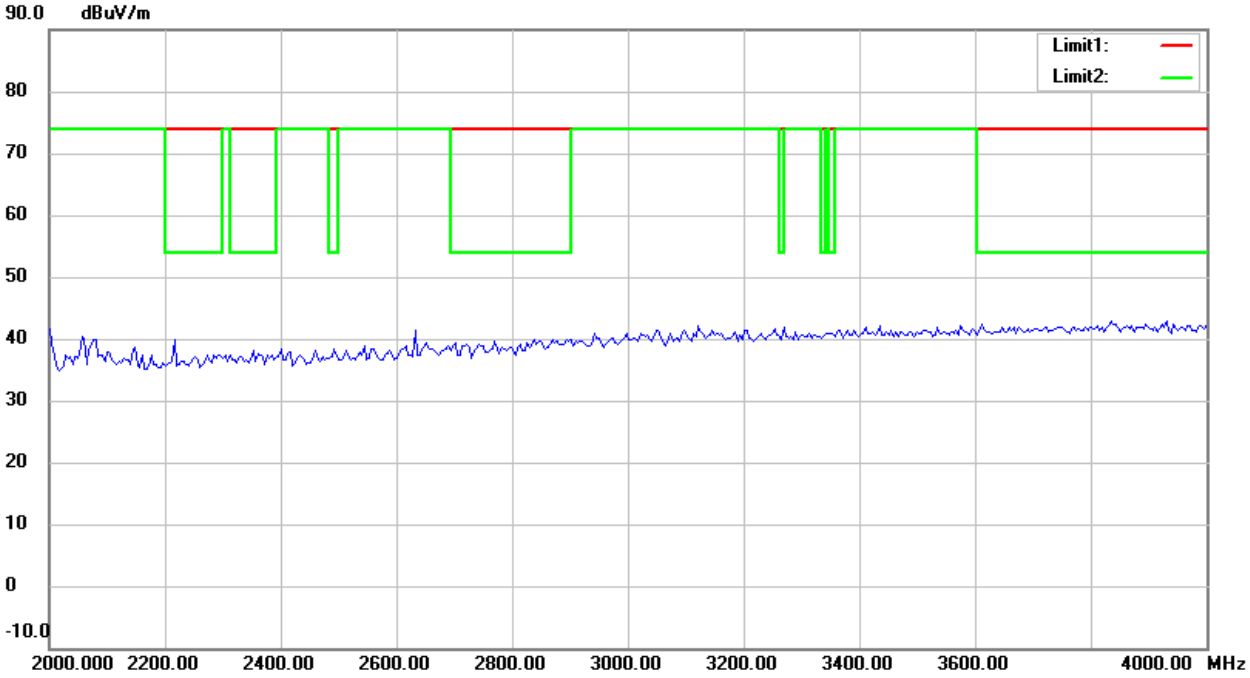

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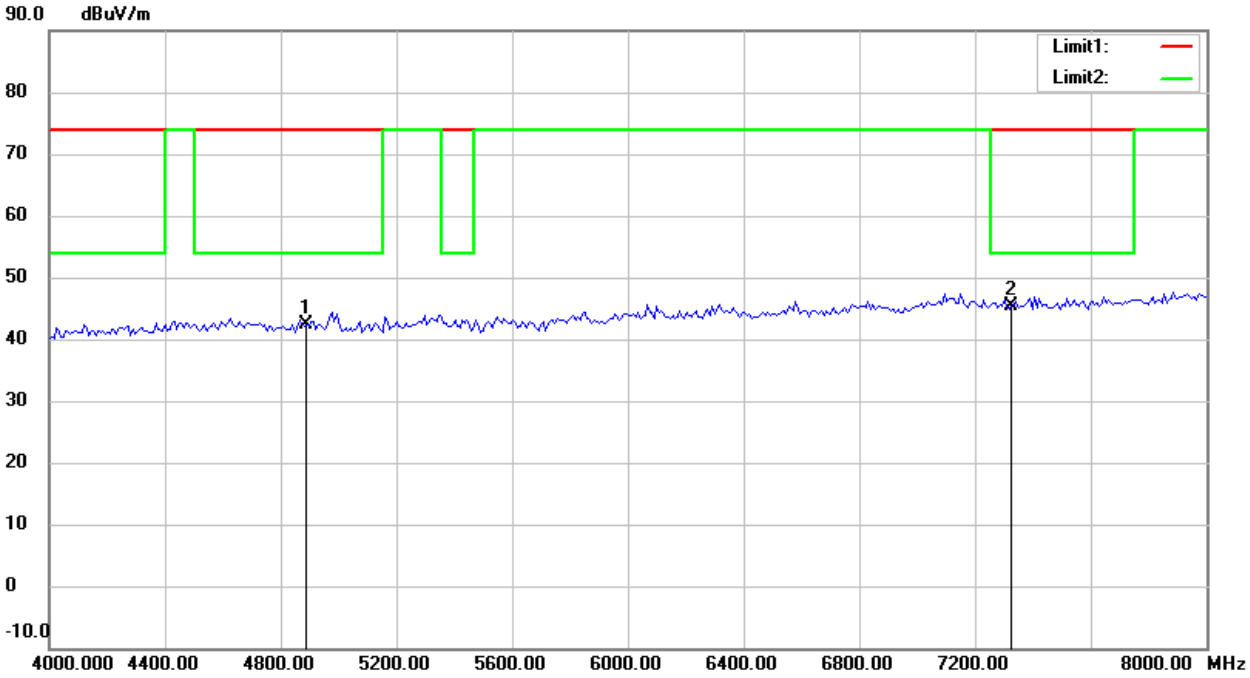

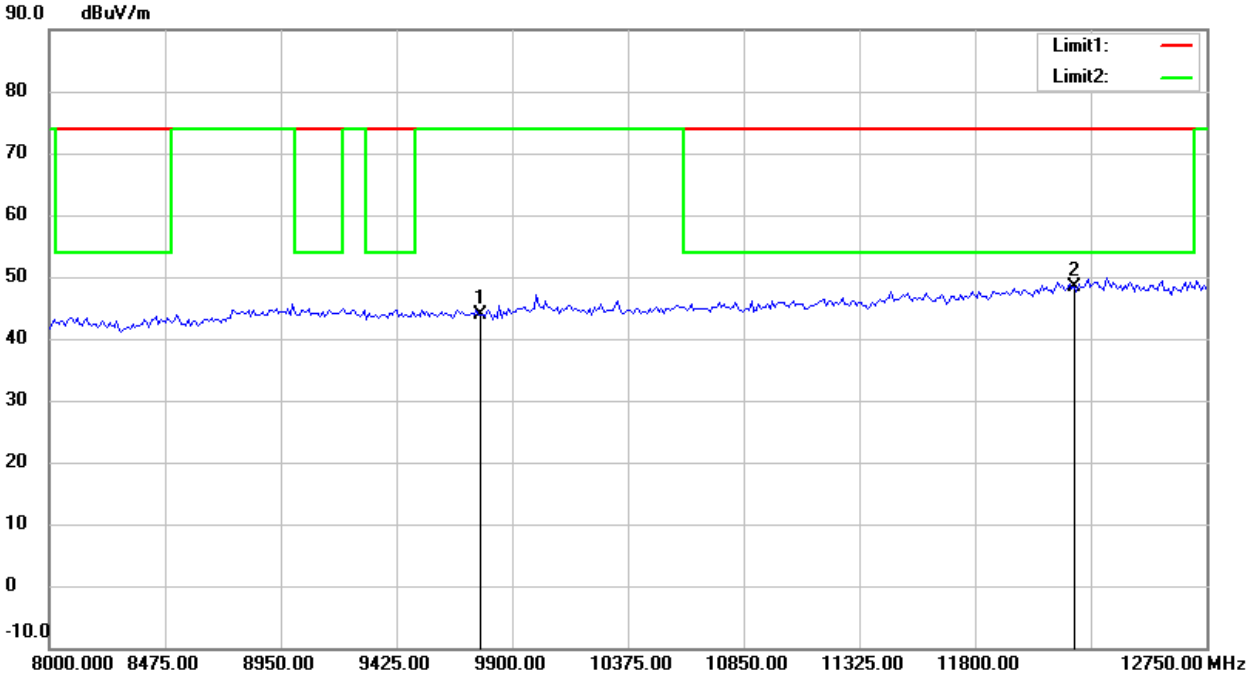

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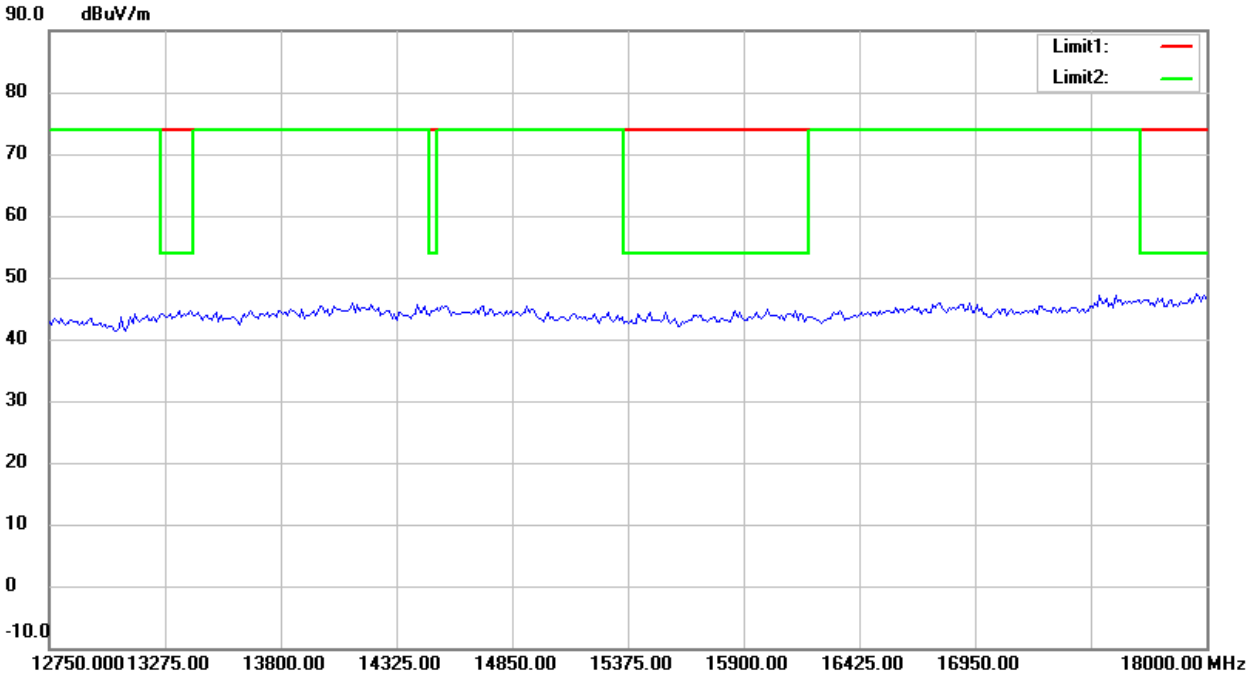

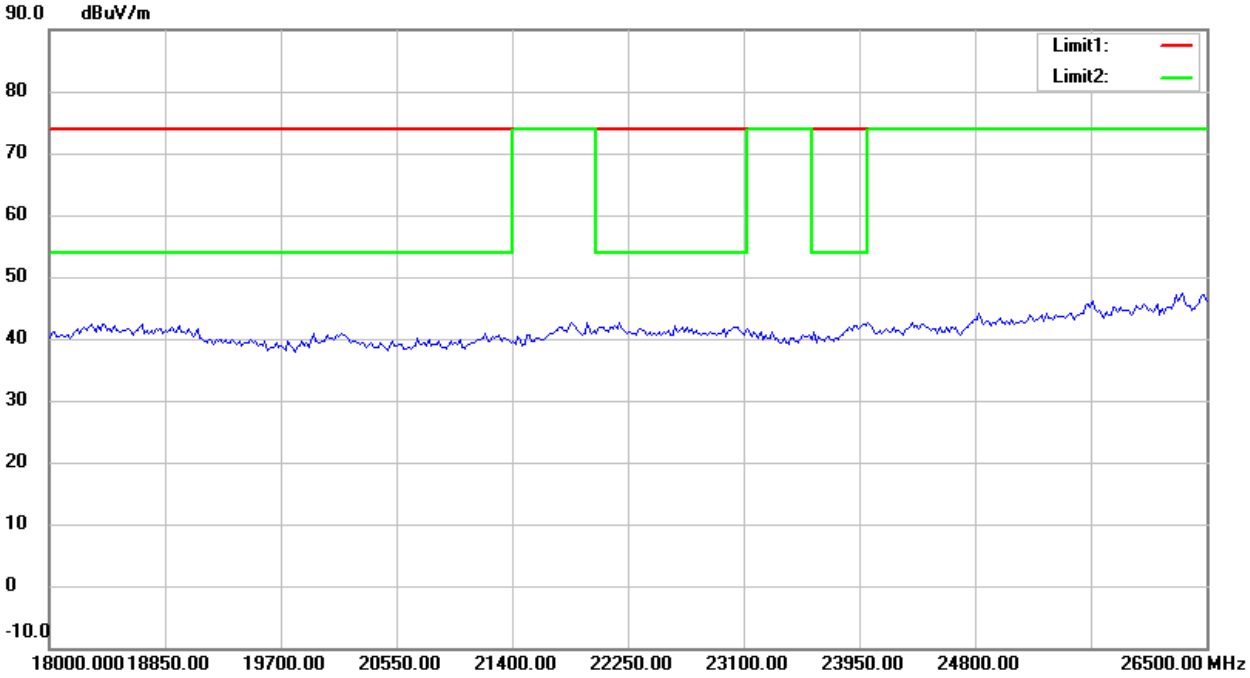

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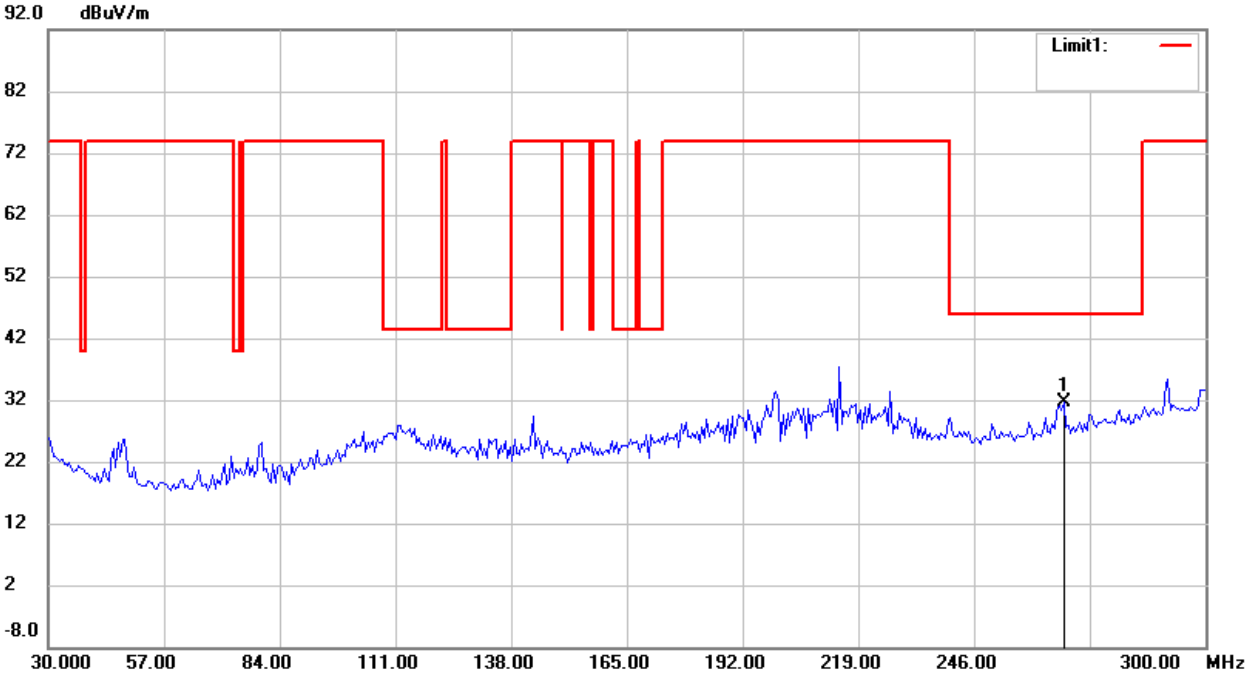
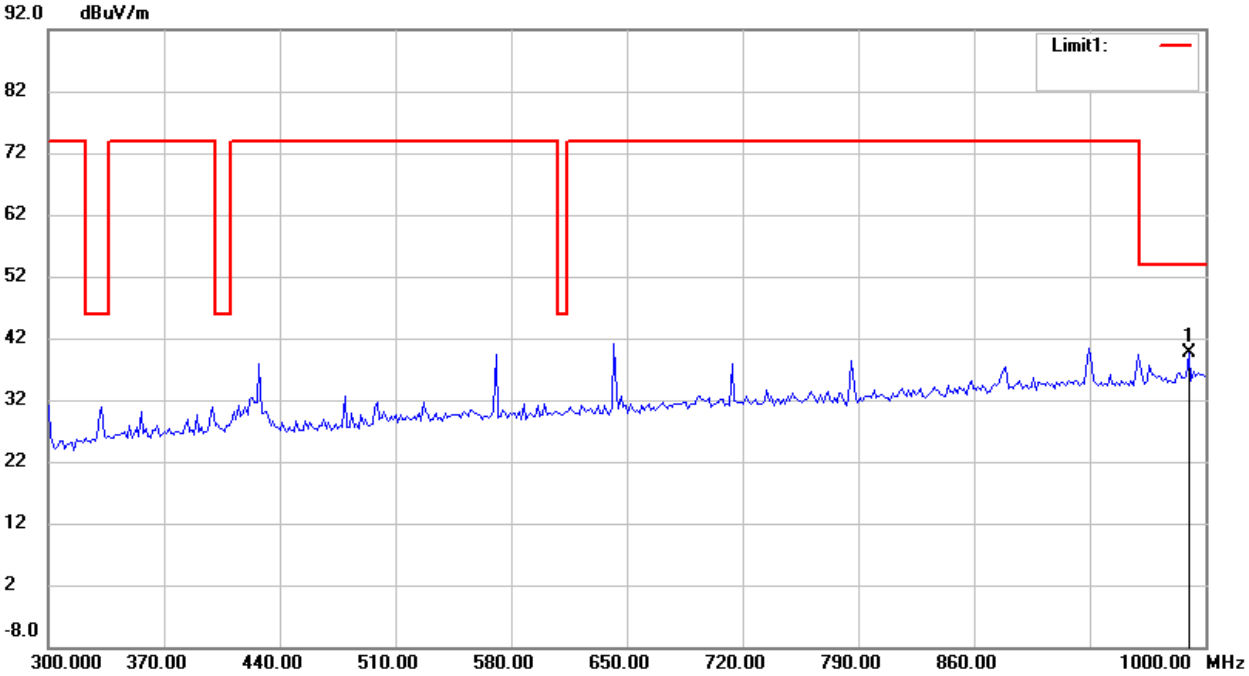
Registration number: W6M21008-10827-C-1
FCC ID: JCK-T1125

Antenna Polarization V





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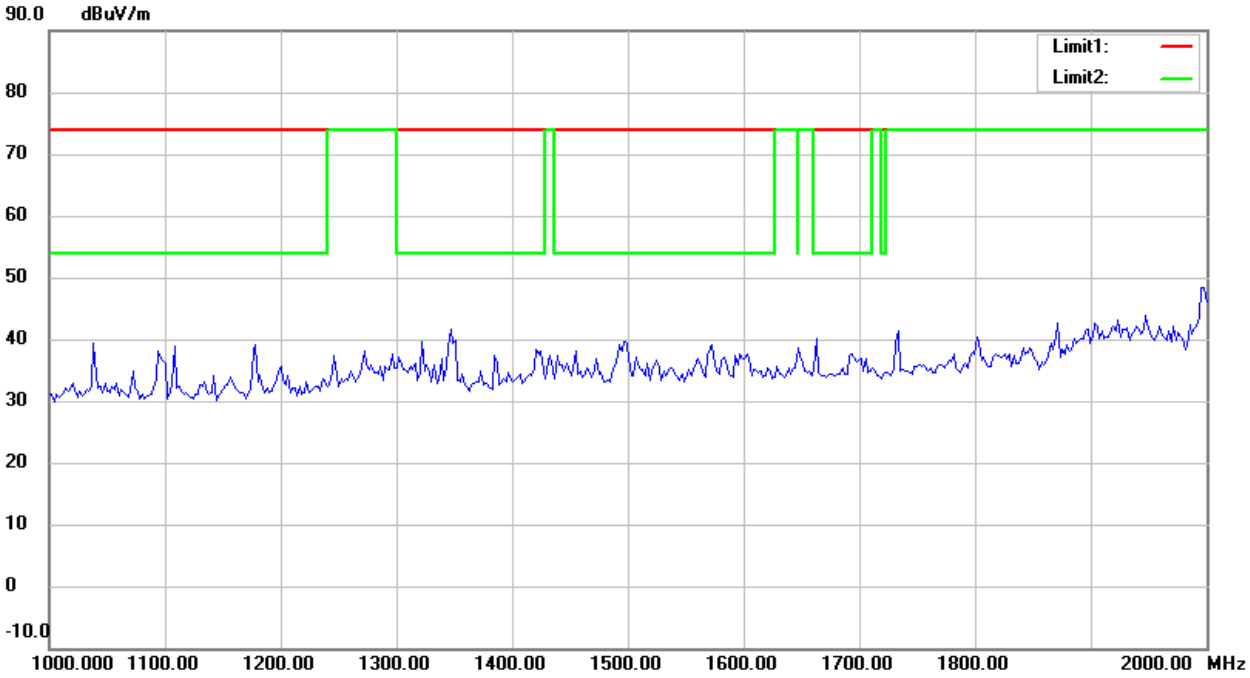

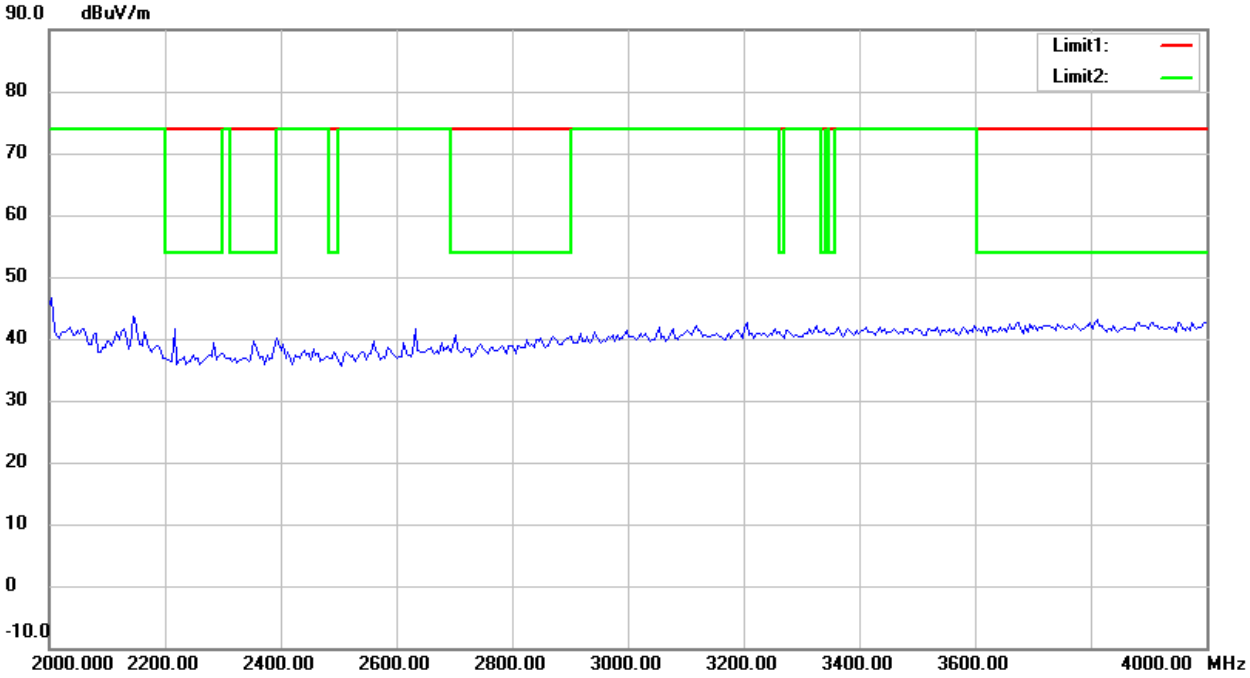

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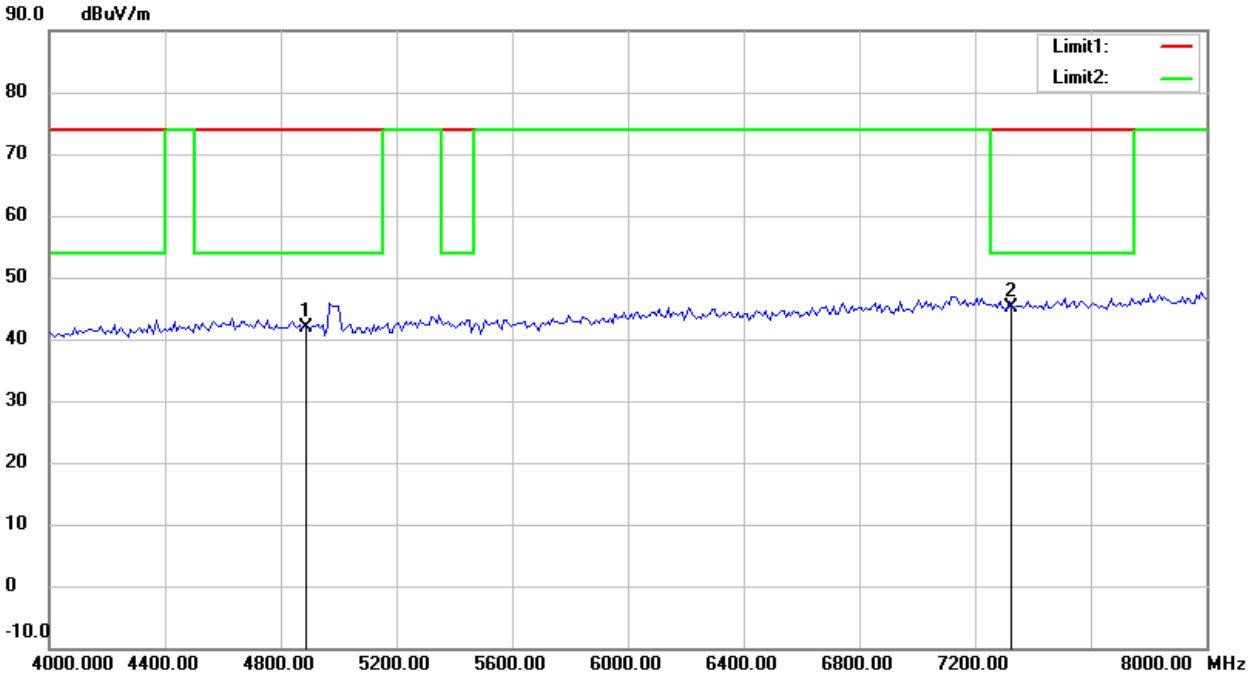

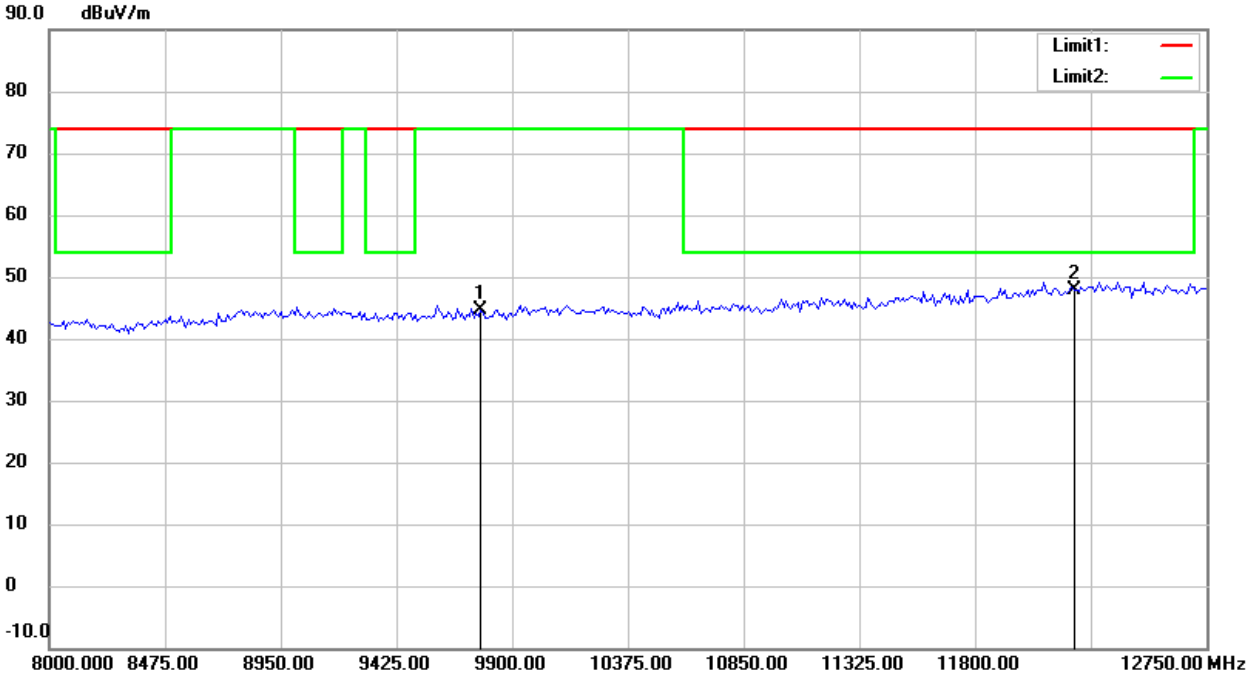

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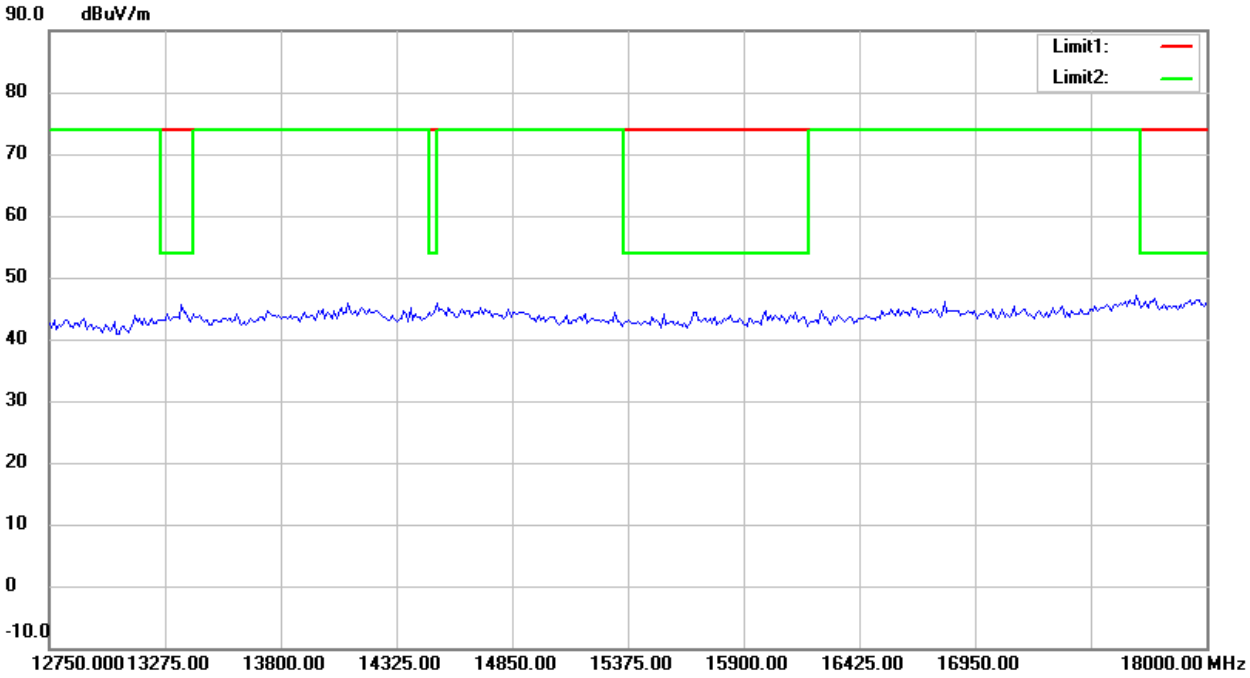

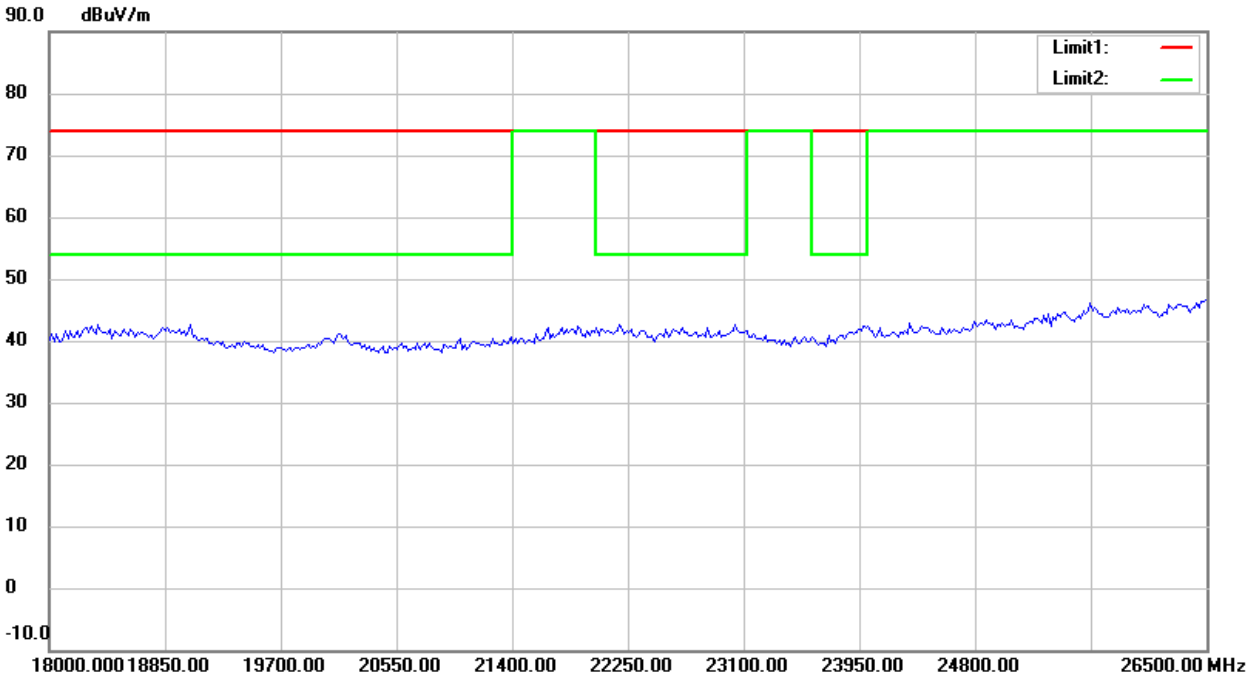

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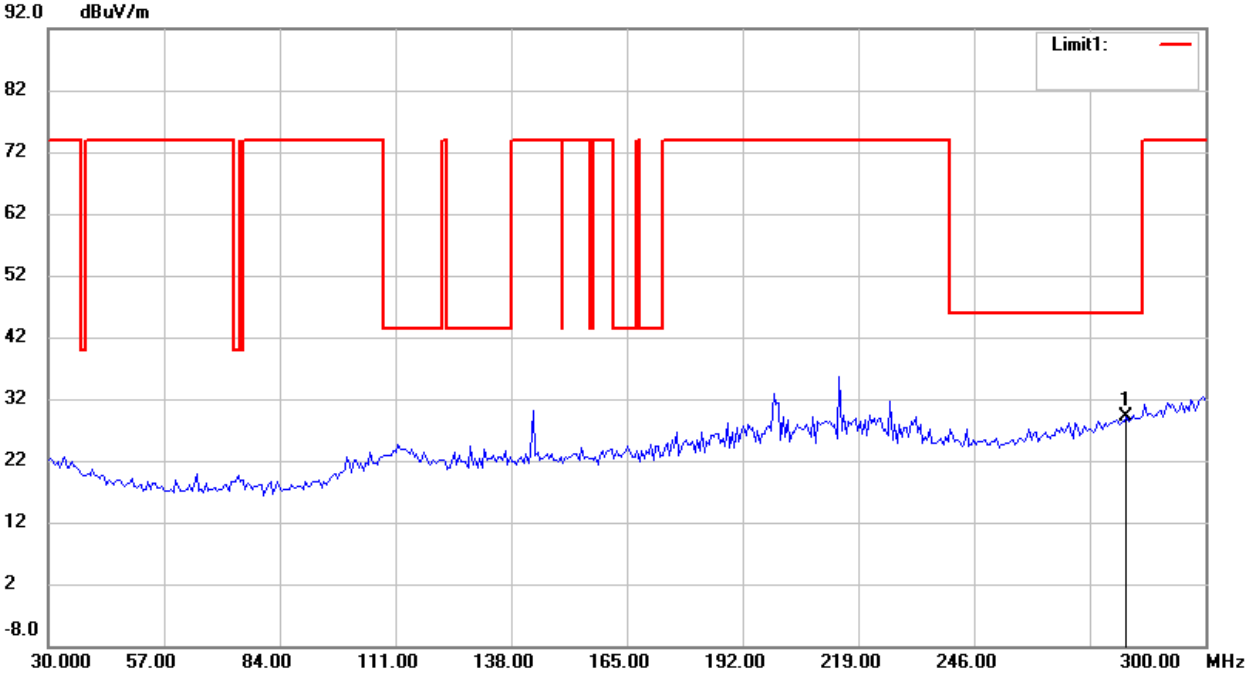
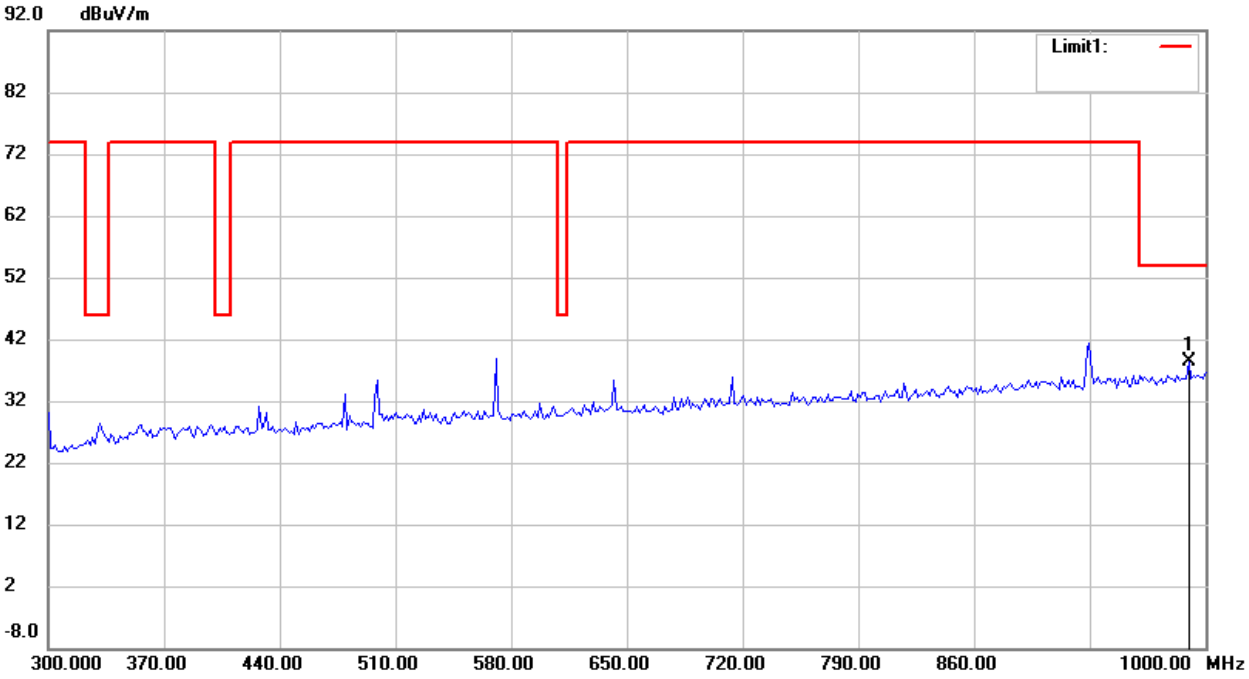
Registration number: W6M21008-10827-C-1
FCC ID: JCK-T1125

Bluetooth 2480 MHz
Antenna Polarization H





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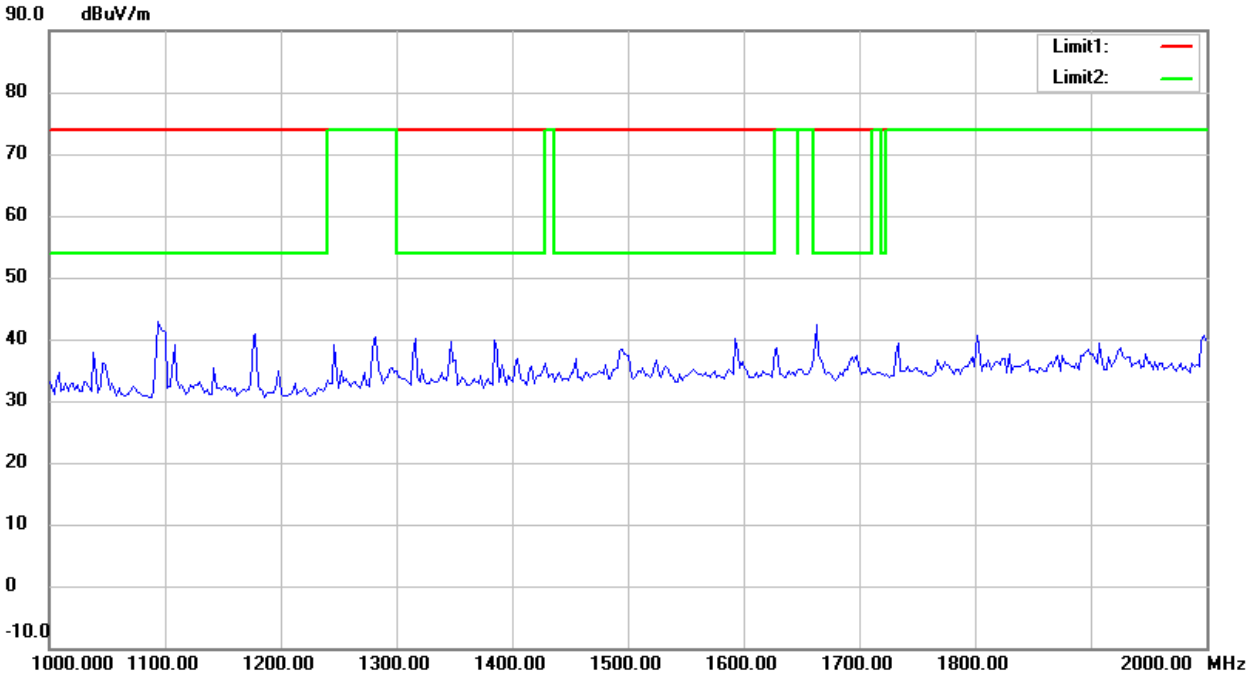

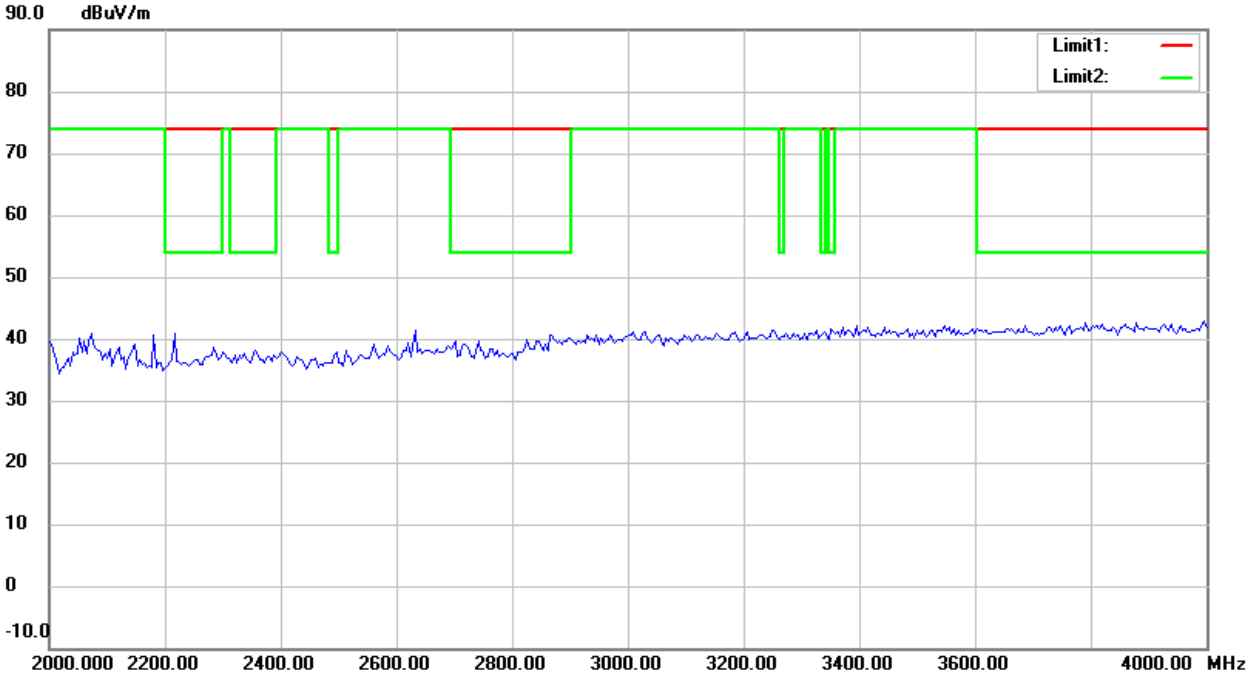

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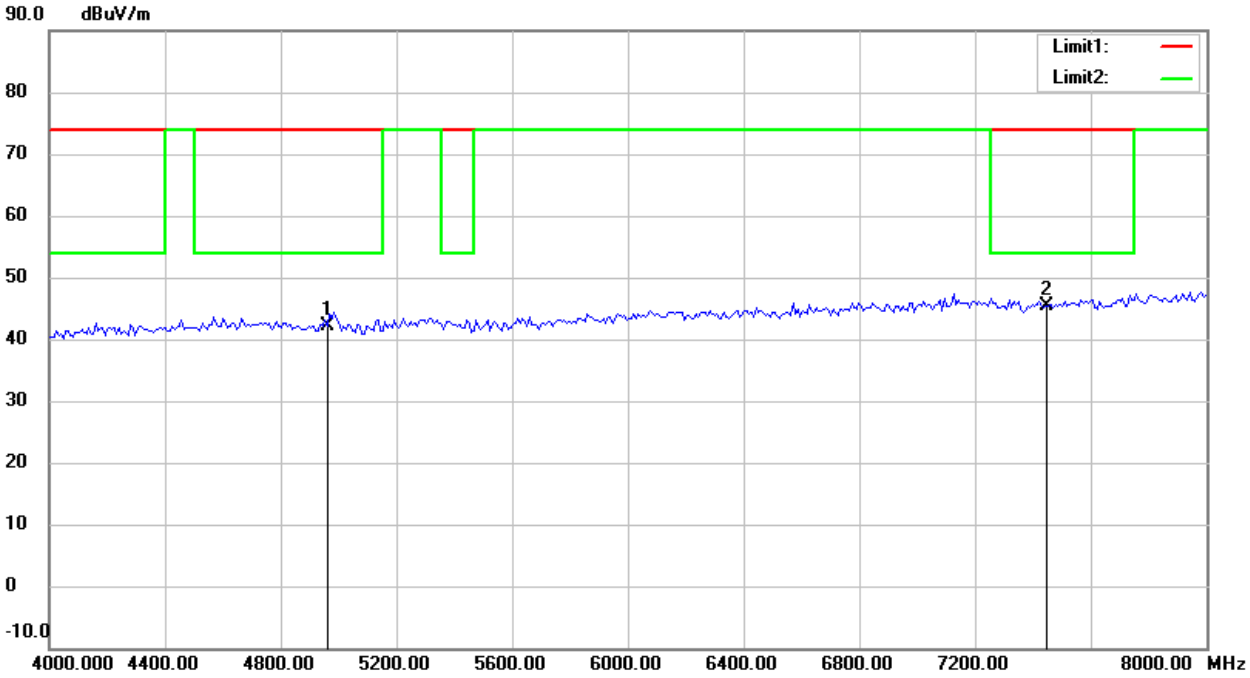

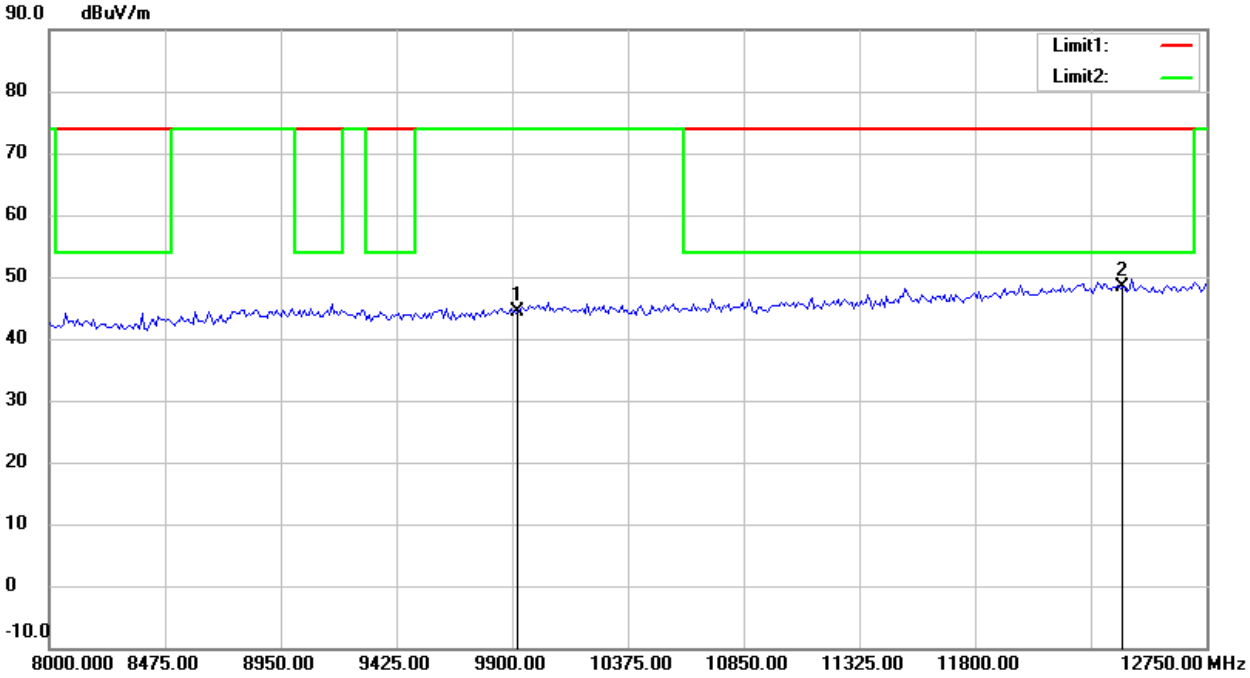

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2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
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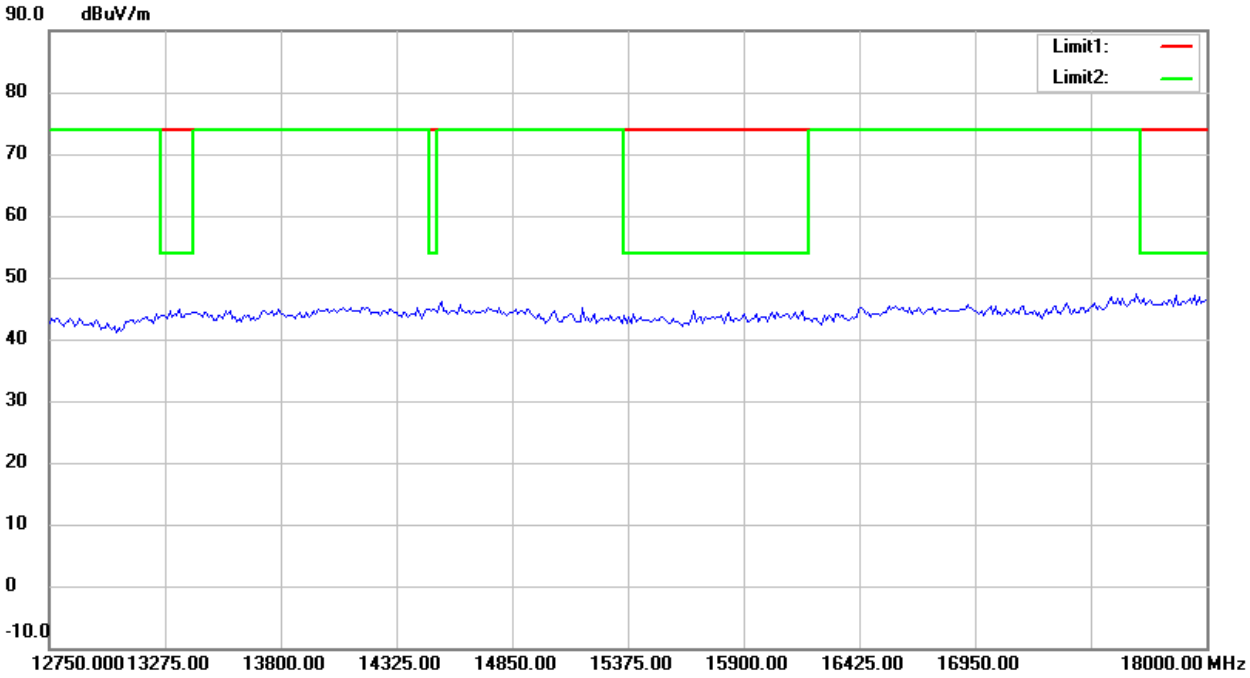
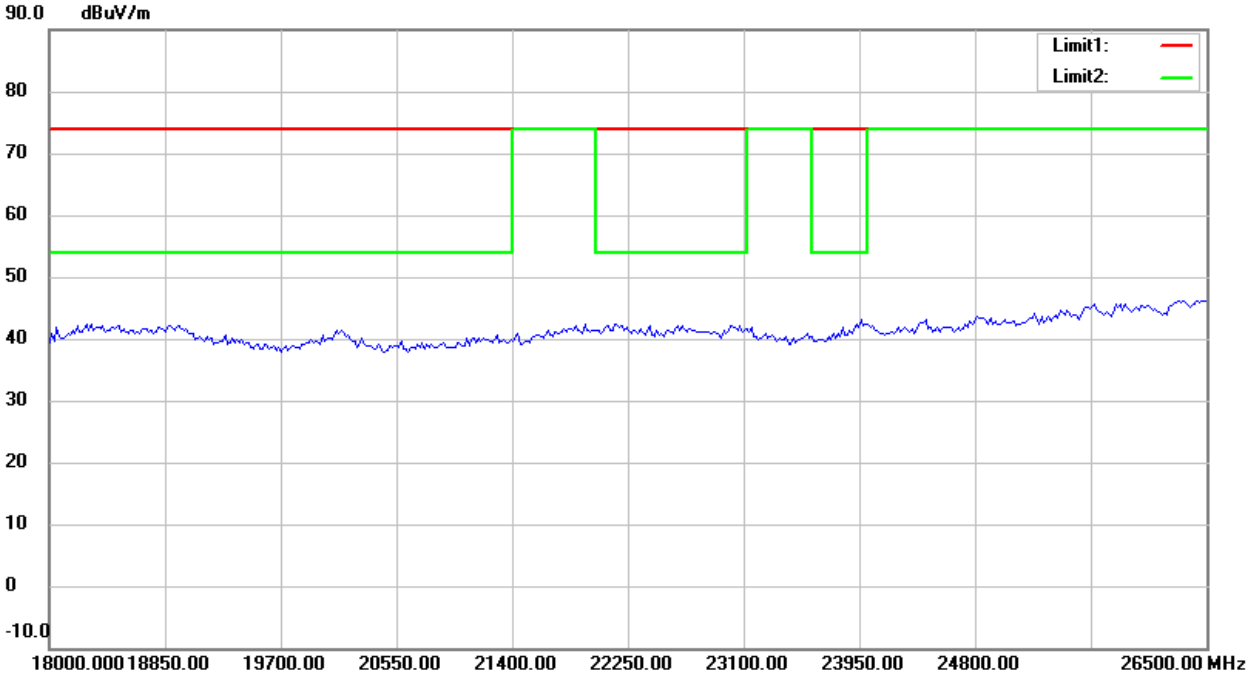


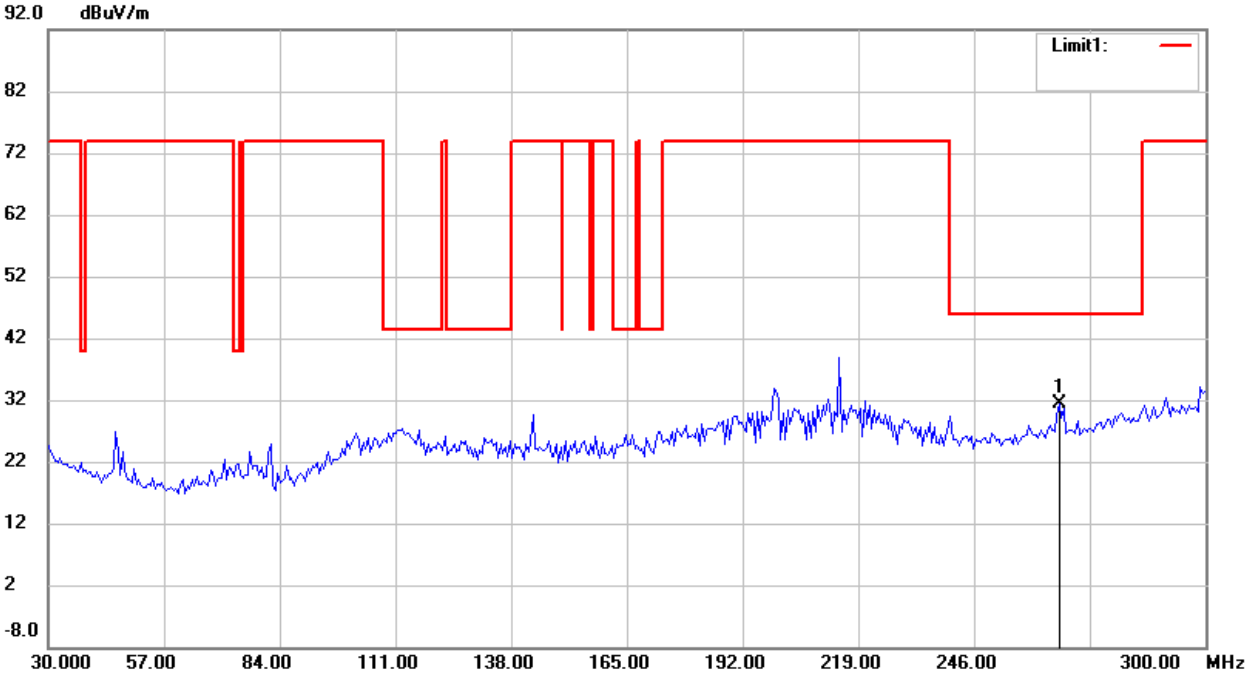


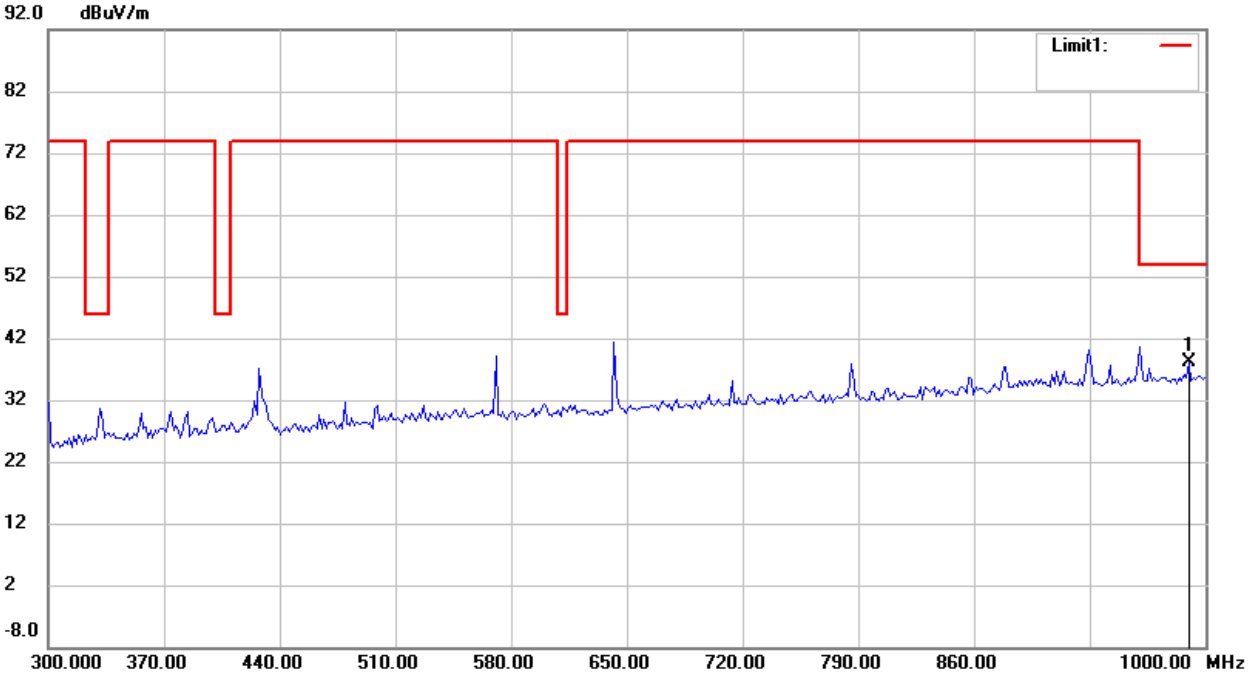
Note:
Up Line: Peak Limit Line Down Line: Ave Limit Line

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: W6M21008-10827-C-1
FCC ID: JCK-T1125

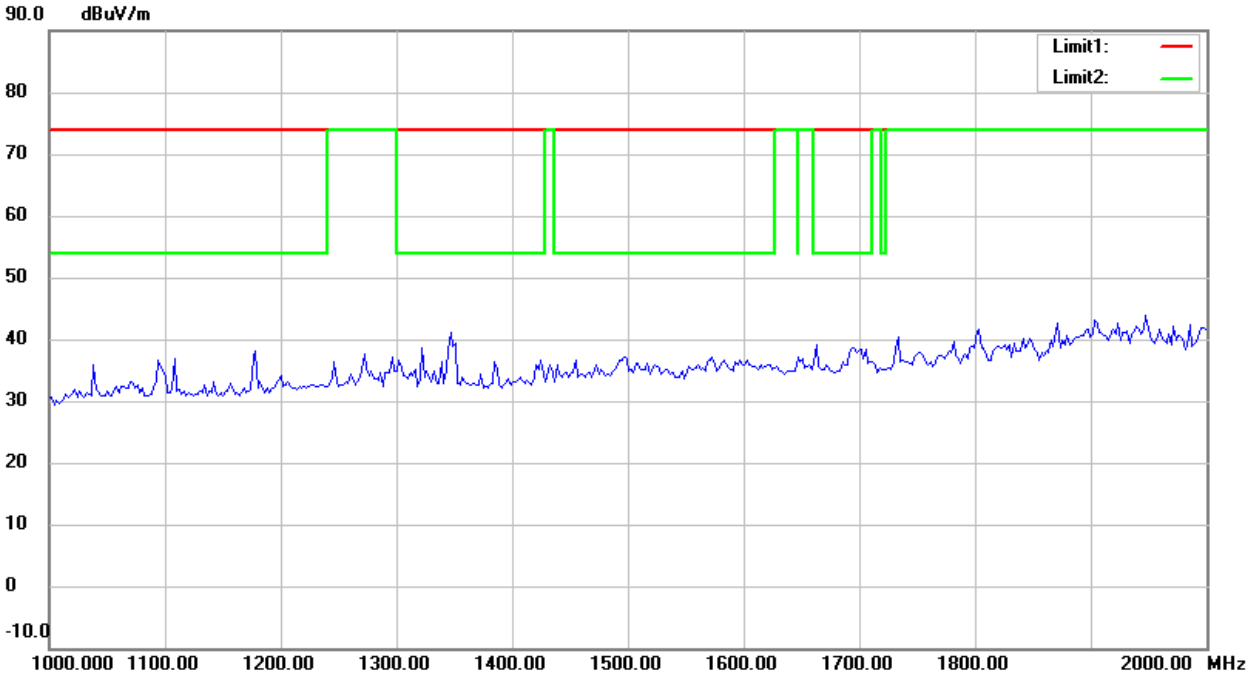
Antenna Polarization V

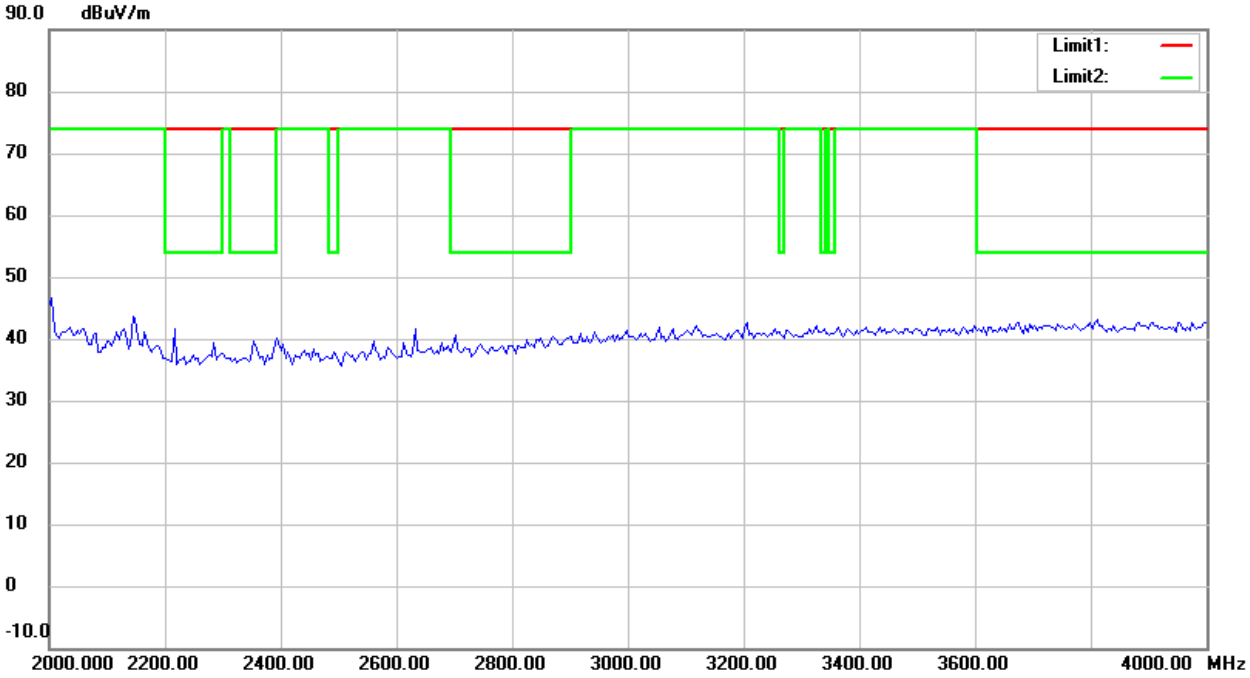




Note:
Up Line: Peak Limit Line Down Line: Ave Limit Line

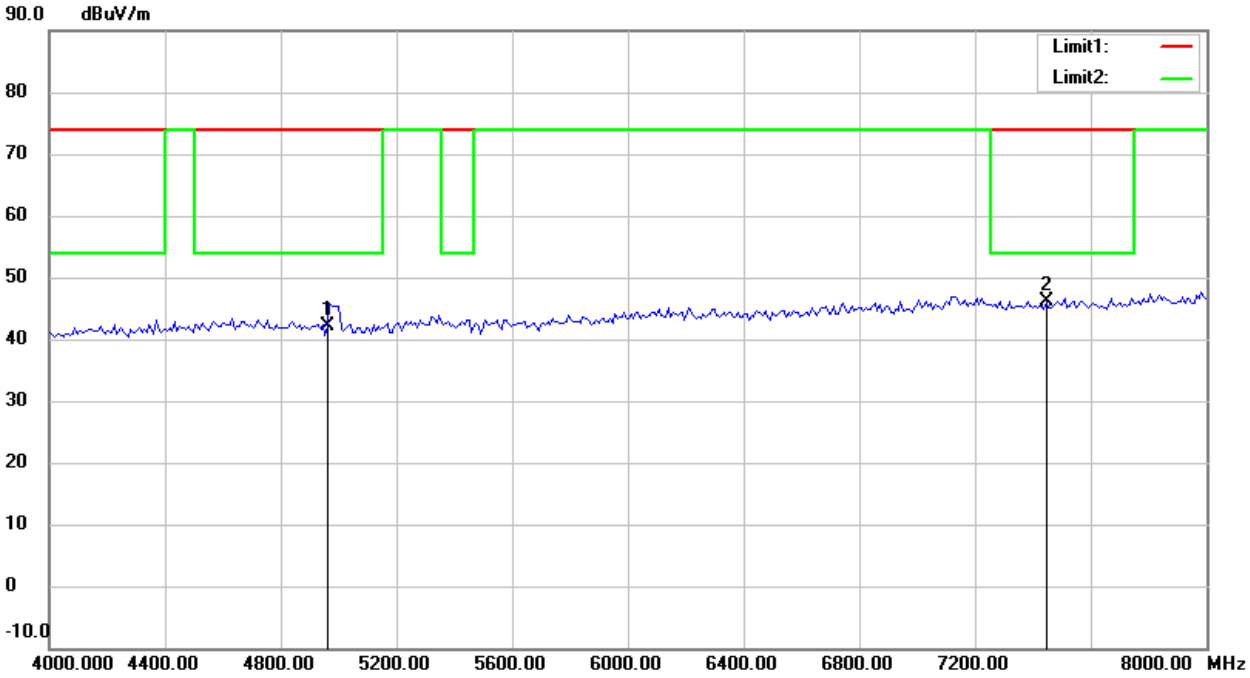
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the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

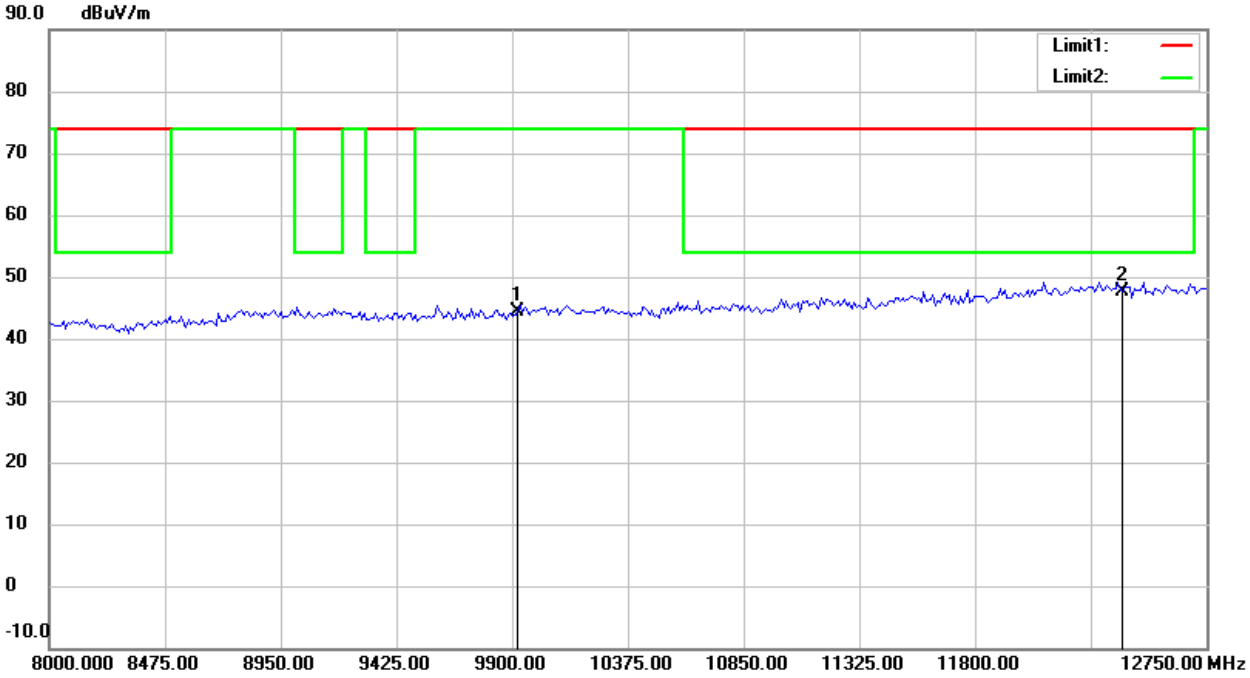




Note:
Up Line: Peak Limit Line Down Line: Ave Limit Line

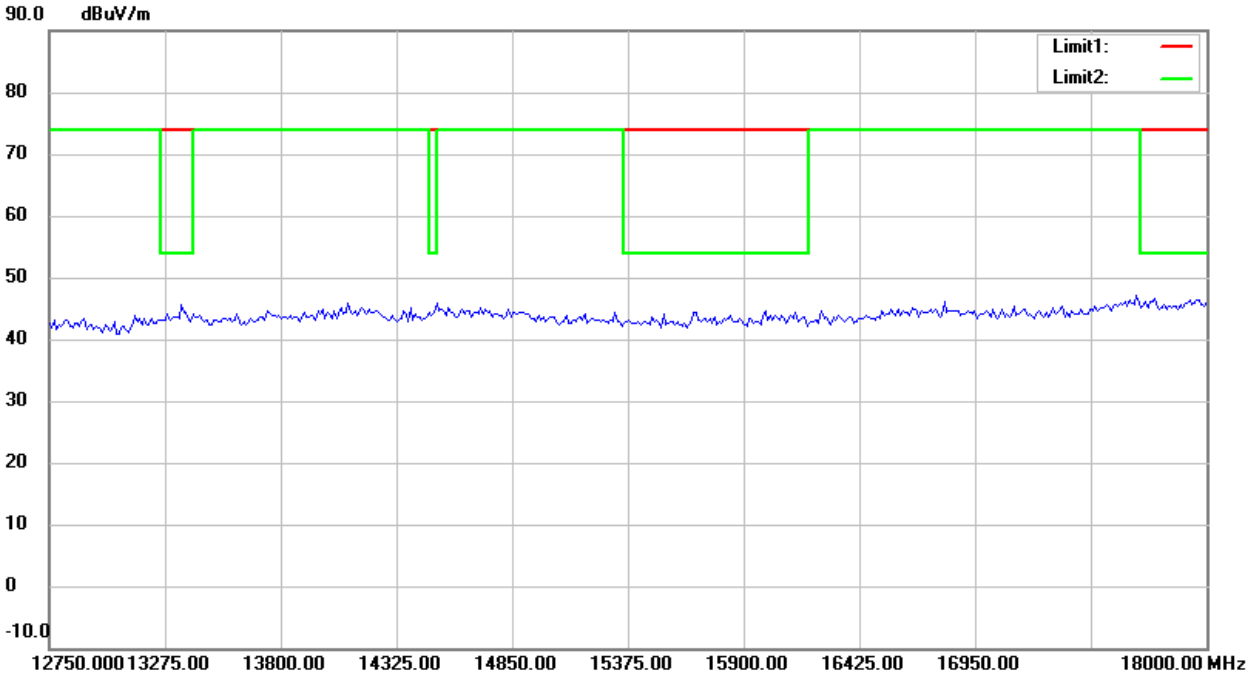
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the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

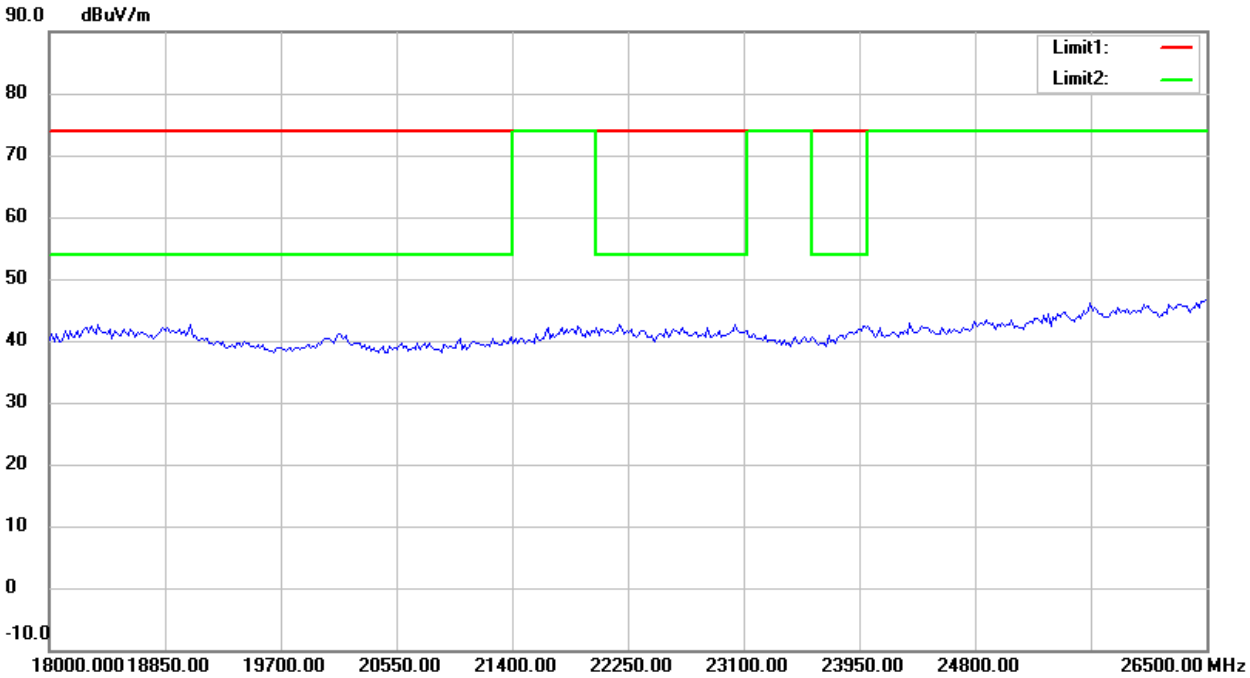




Note:
Up Line: Peak Limit Line Down Line: Ave Limit Line

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



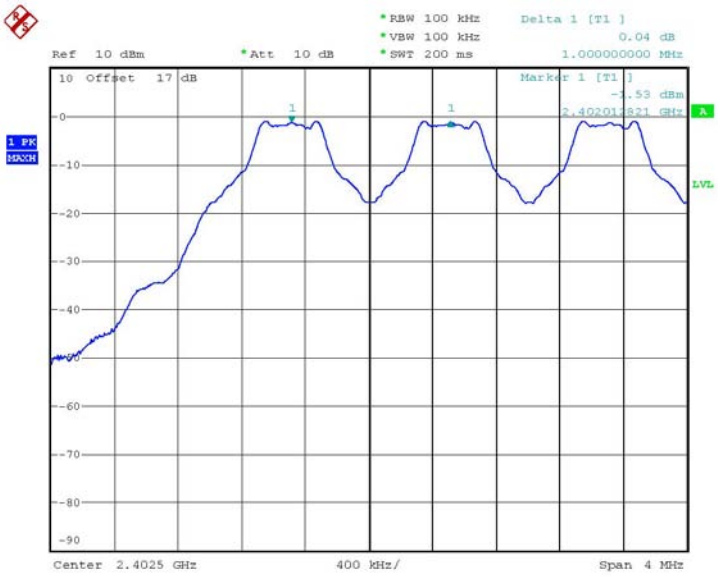


Note:
Up Line: Peak Limit Line Down Line: Ave Limit Line

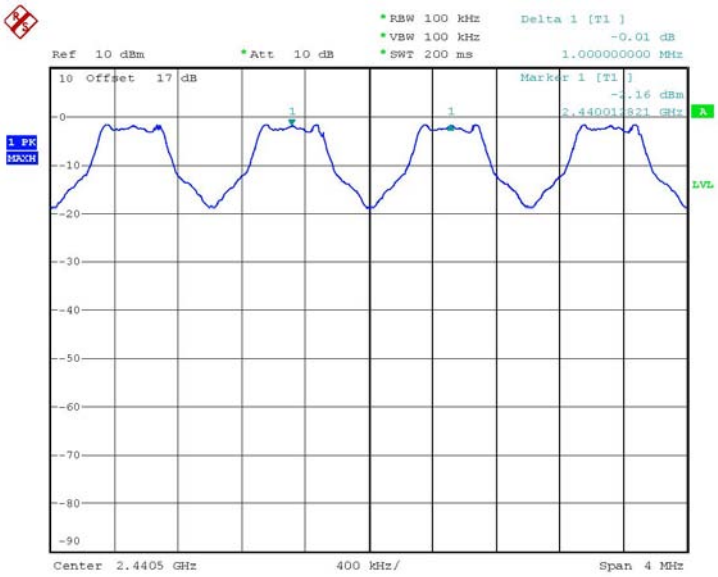
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the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

Carrier Frequency Separation

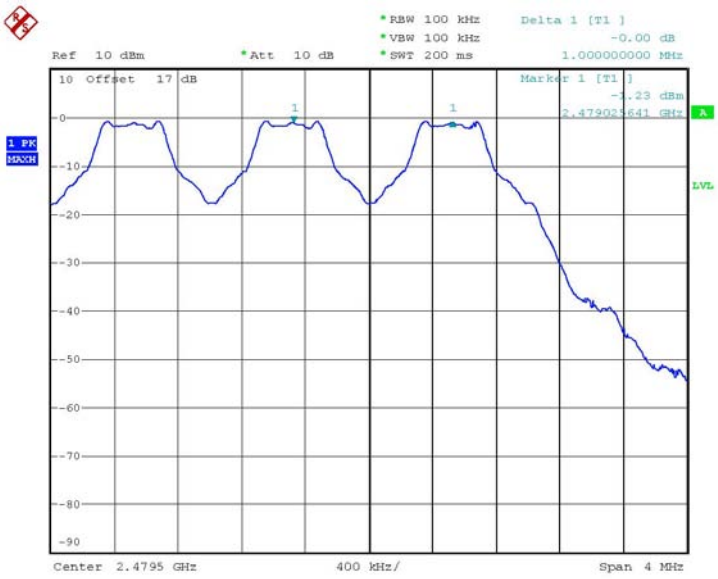
Bluetooth mode



FREQUENCY SEPARATION CH0
Date: 30.AUG.2010 14:10:48



FREQUENCY SEPARATION CH39
Date: 30.AUG.2010 14:13:57



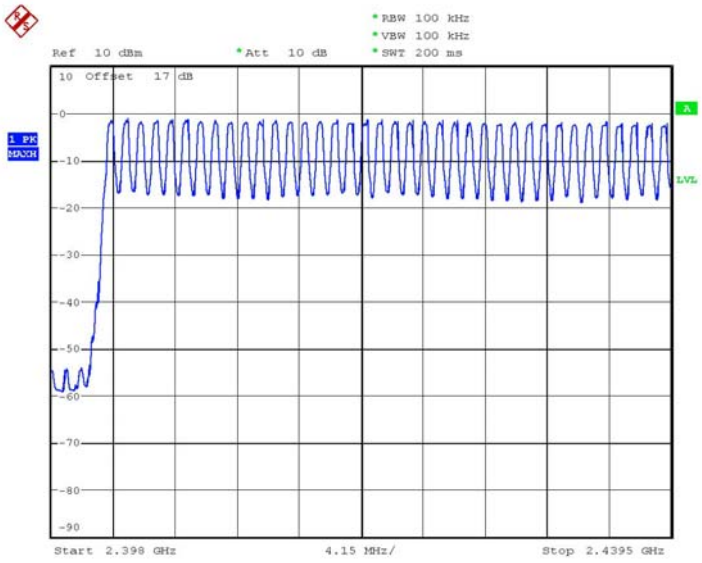
FREQUENCY SEPARATION CH78

Date: 30.AUG.2010 14:15:48

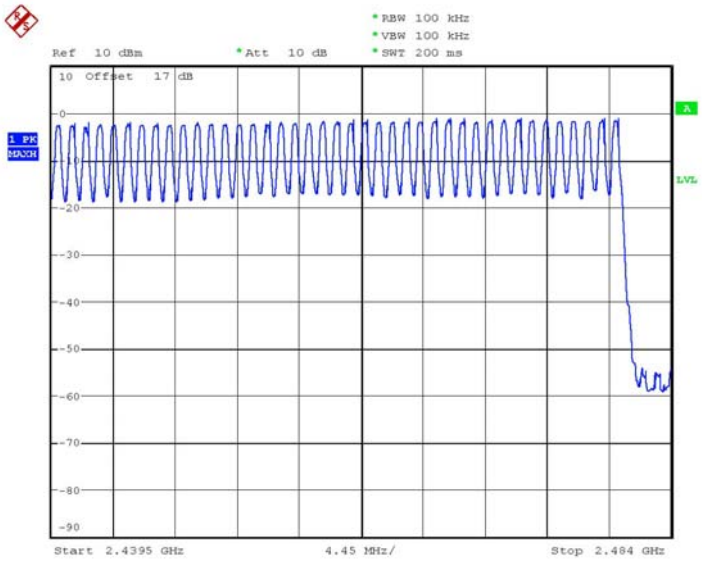
Registration number: W6M21008-10827-C-1
FCC ID: JCK-T1125

Number of Hopping Frequencies

Bluetooth mode



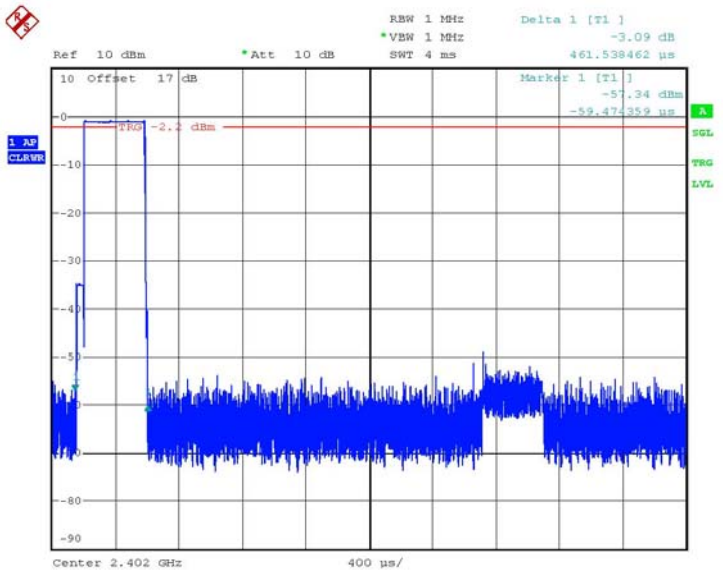
NUMBER OF HOPPING CH0-37
Date: 30.AUG.2010 14:50:13



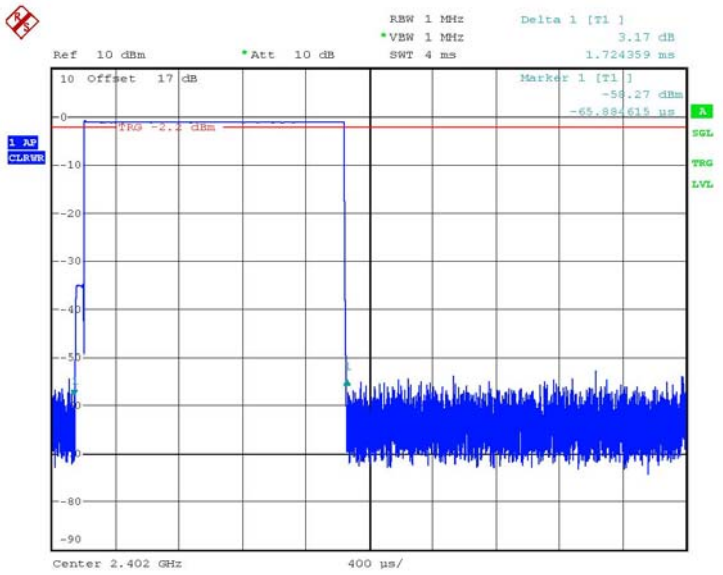
NUMBER OF HOPPING CH38-78
Date: 30.AUG.2010 14:55:06

Time of Occupancy (Dwell Time)

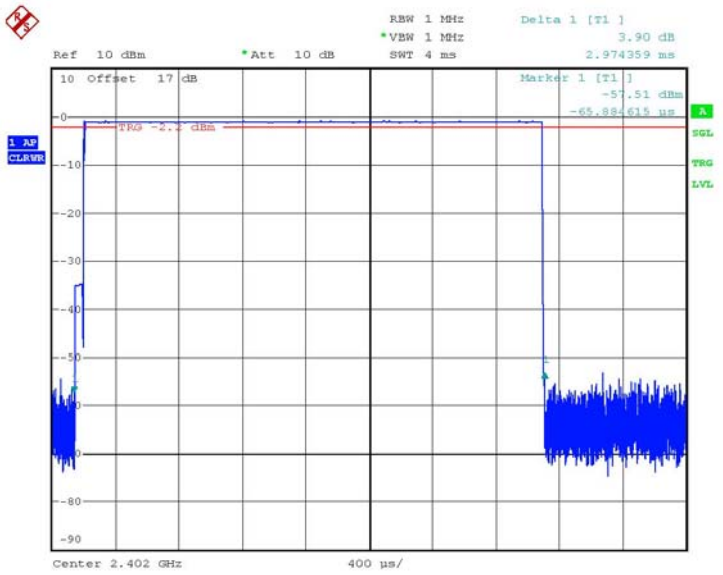
Bluetooth mode



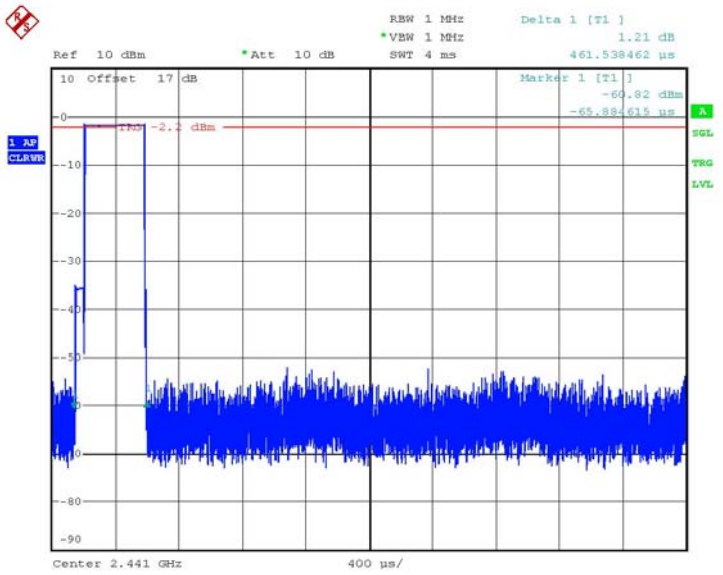
DWELL TIME CH0 DH1 (0.436ms * 320events = 147.52ms)
Date: 30.AUG.2010 15:02:02



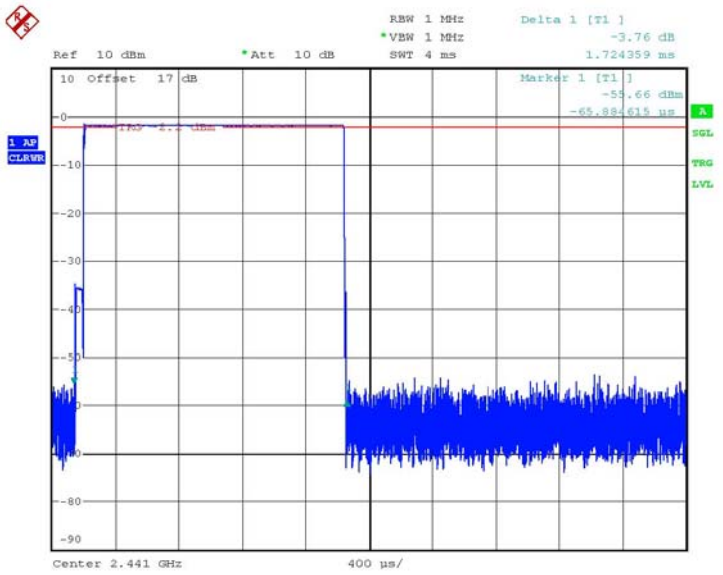
DWELL TIME CH0 DH3 (1.724ms * 160events = 275.84ms)
Date: 30.AUG.2010 15:05:41



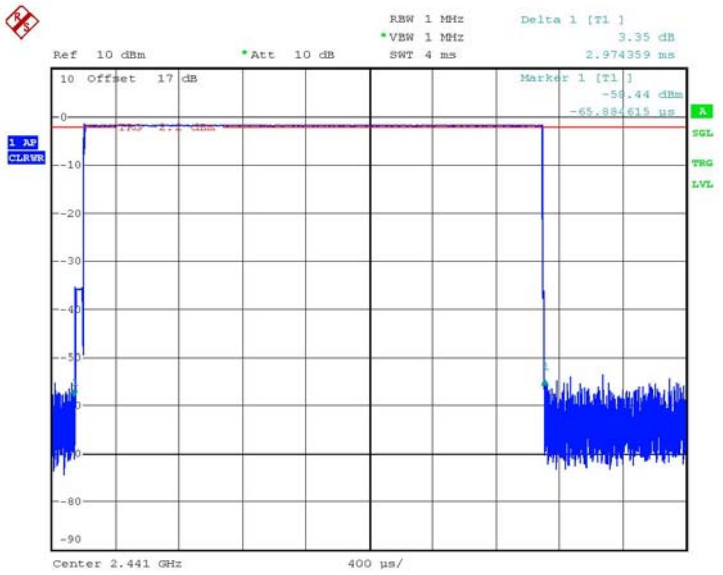
DWELL TIME CH0 DH5 (2.974ms * 110events = 327.14ms)
Date: 30.AUG.2010 15:07:26



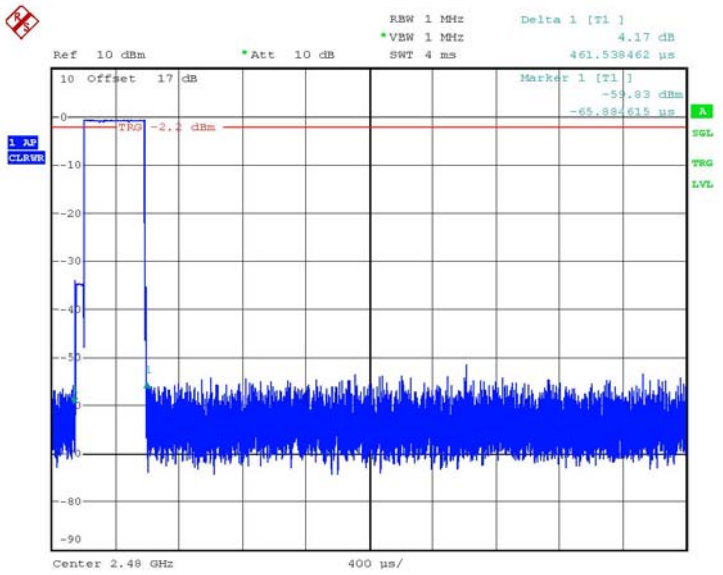
DWELL TIME CH39 DH1 (0.436ms * 320events = 147.52ms)
Date: 30.AUG.2010 15:02:44



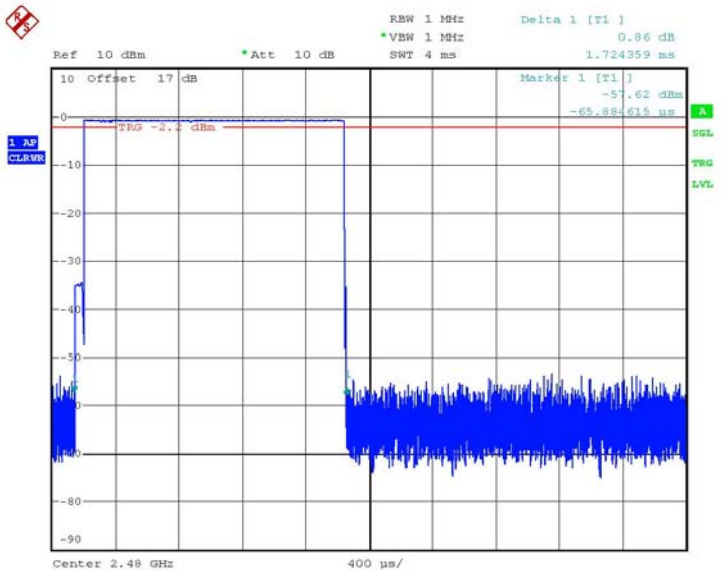
DWELL TIME CH39 DH3 (1.724ms * 160events = 275.84ms)
Date: 30.AUG.2010 15:05:07



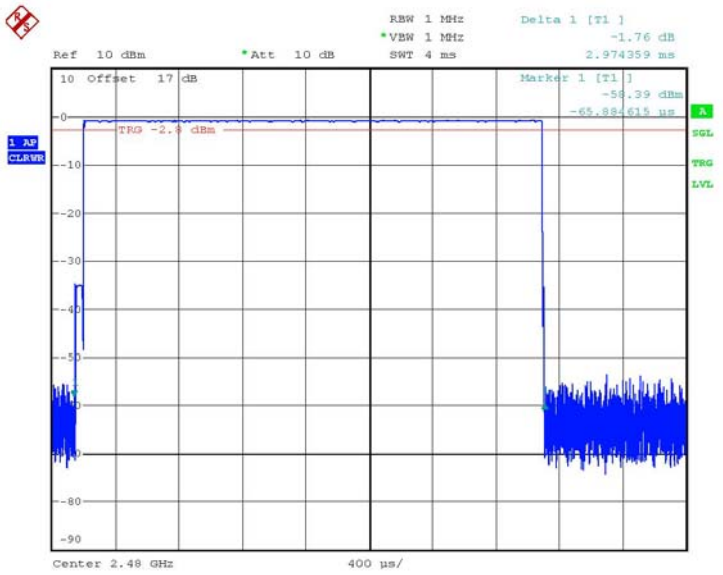
DWELL TIME CH39 DH5 (2.974ms * 110events = 327.14ms)
Date: 30.AUG.2010 15:08:00



DWELL TIME CH78 DH1 (0.436ms * 320events = 147.52ms)
Date: 30.AUG.2010 15:03:17



DWELL TIME CH78 DH3 (1.724ms * 160events = 275.84ms)
Date: 30.AUG.2010 15:04:44

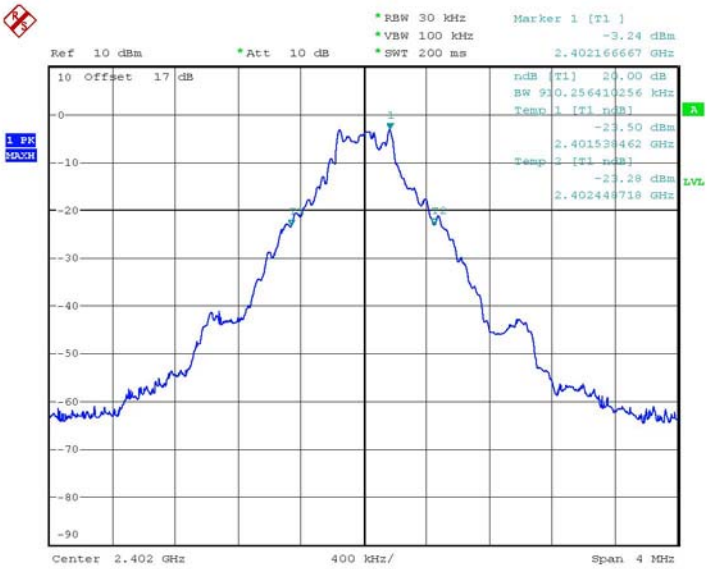


DWELL TIME CH78 DH5 (2.974ms * 110events = 327.14ms)
Date: 30.AUG.2010 15:08:28

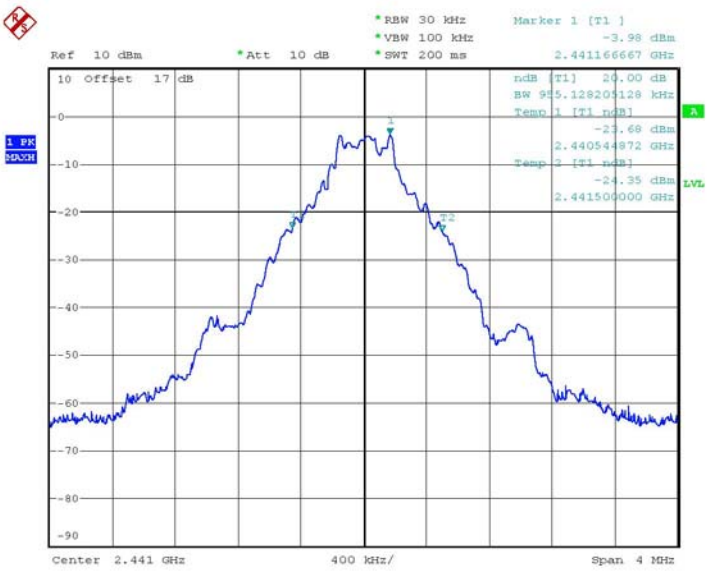
Registration number: W6M21008-10827-C-1
FCC ID: JCK-T1125

20dB Bandwidth

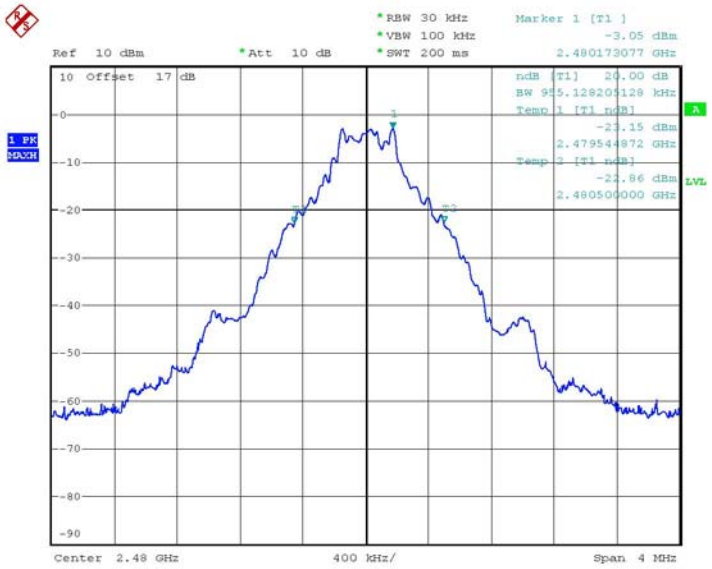
Bluetooth mode (mode E)



20DB BANEWIDTH CH0
Date: 30.AUG.2010 14:02:26

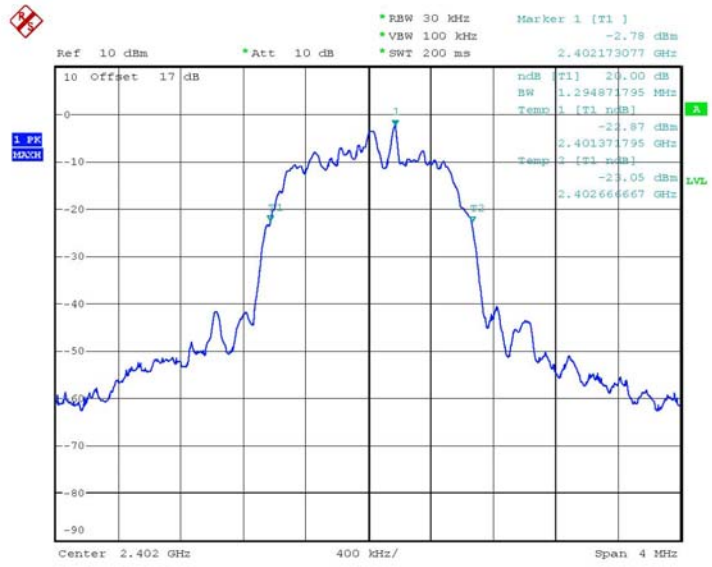


20DB BANEWIDTH CH39
Date: 30.AUG.2010 14:01:38

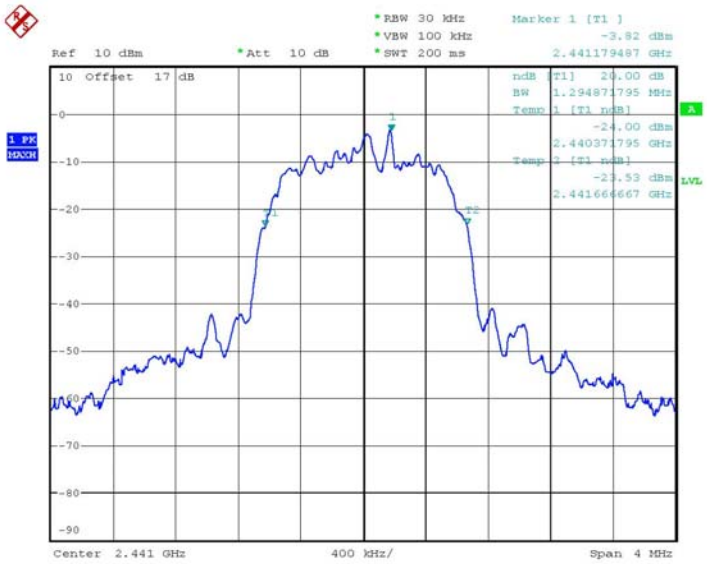


20DB BANEWIDTH CH78
Date: 30.AUG.2010 14:01:00

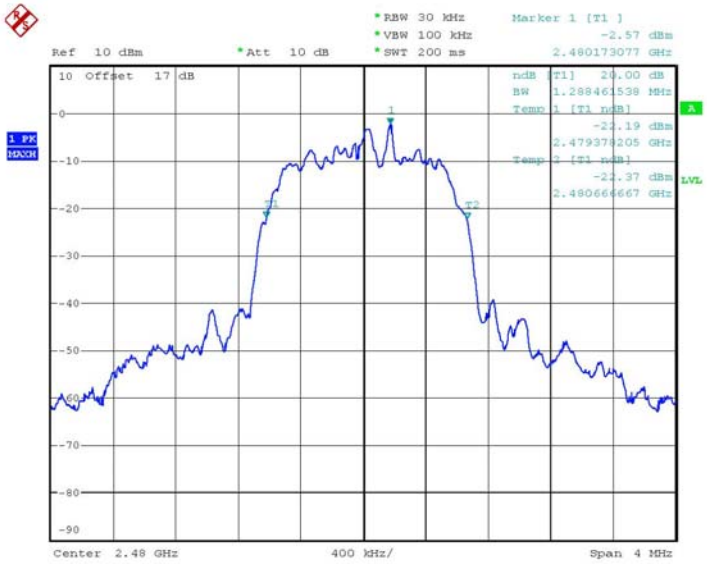
Bluetooth mode (mode F)



20DB BANEWIDTH CH0 EDR MODE
Date: 30.AUG.2010 13:58:13



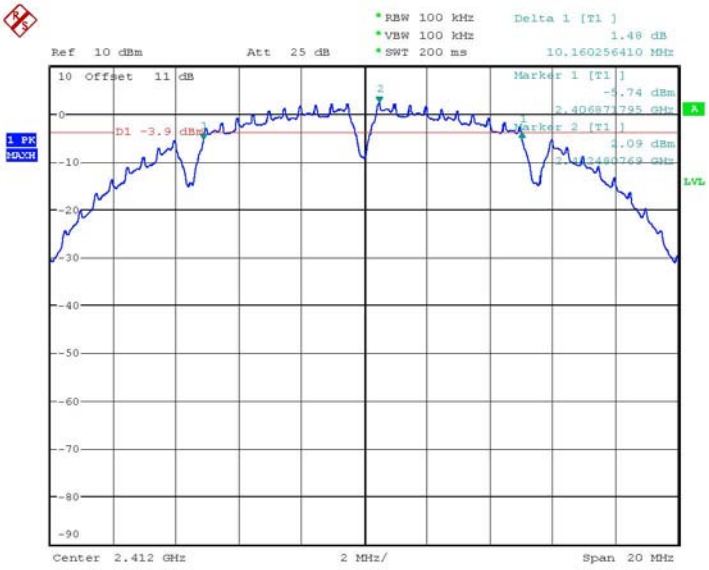
20DB BANEWIDTH CH39 EDR MODE
Date: 30.AUG.2010 13:58:54



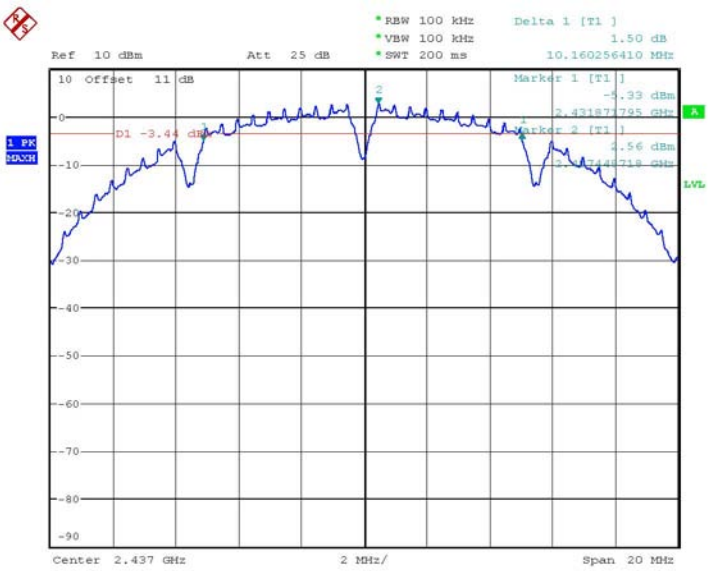
20DB BANEWIDTH CH78 EDR MODE
Date: 30.AUG.2010 13:59:25

Minimum 6dB Bandwidth

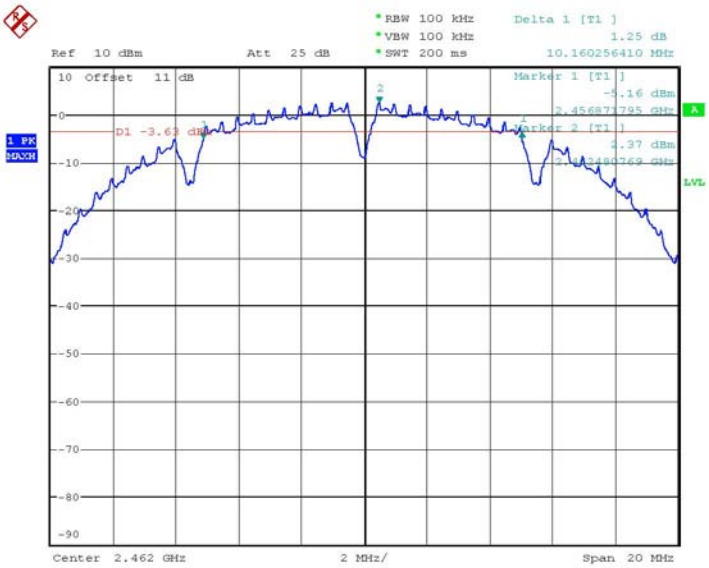
WLAN mode (mode A)



6DB BANDWIDTH 802.11b CH1
Date: 6.SEP.2010 15:25:01

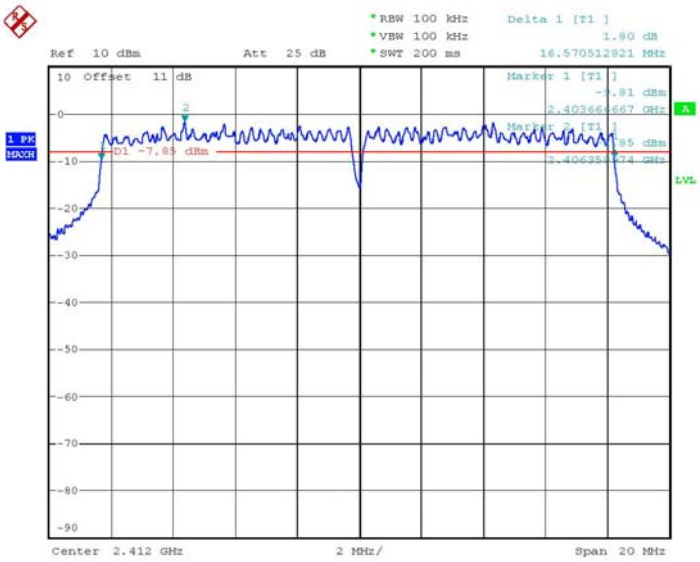


6DB BANDWIDTH 802.11b CH6
Date: 6.SEP.2010 15:26:29

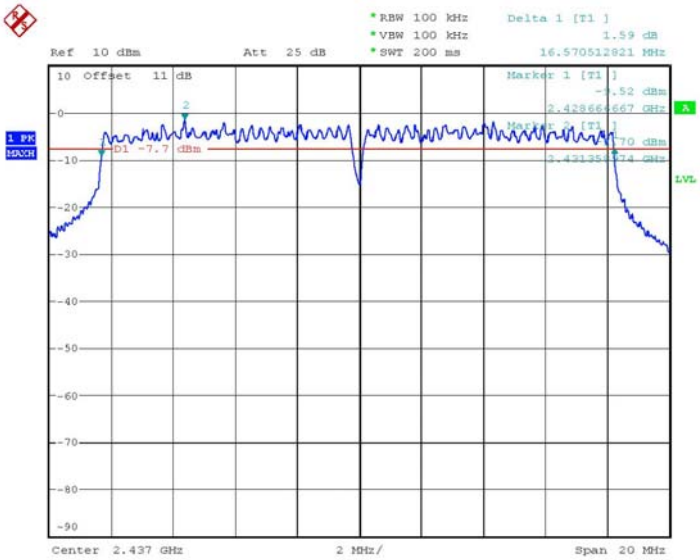


6DB BANDWIDTH 802.11b CH11
Date: 6.SEP.2010 15:27:31

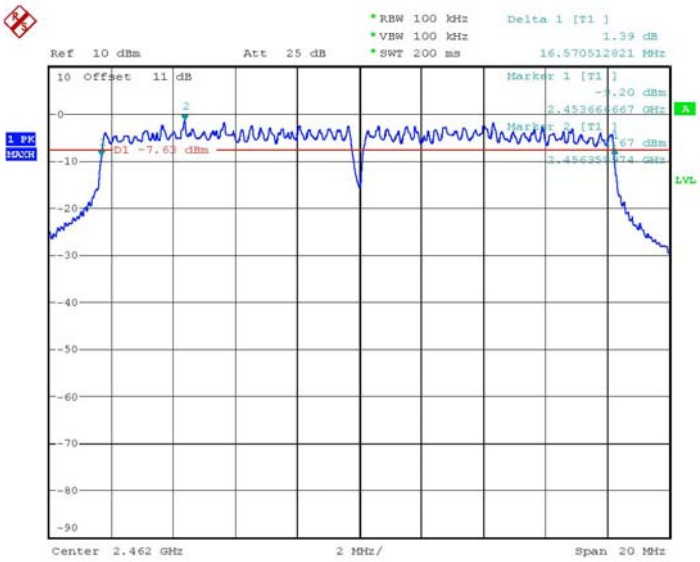
WLAN mode (mode B)



6DB BANDWIDTH 802.11g CH1
Date: 6.SEP.2010 15:31:07

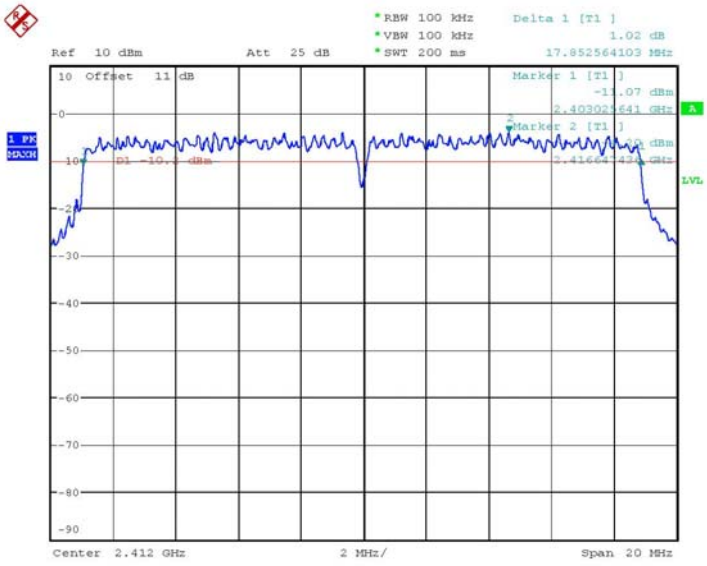


6DB BANDWIDTH 802.11g CH6
Date: 6.SEP.2010 15:30:05



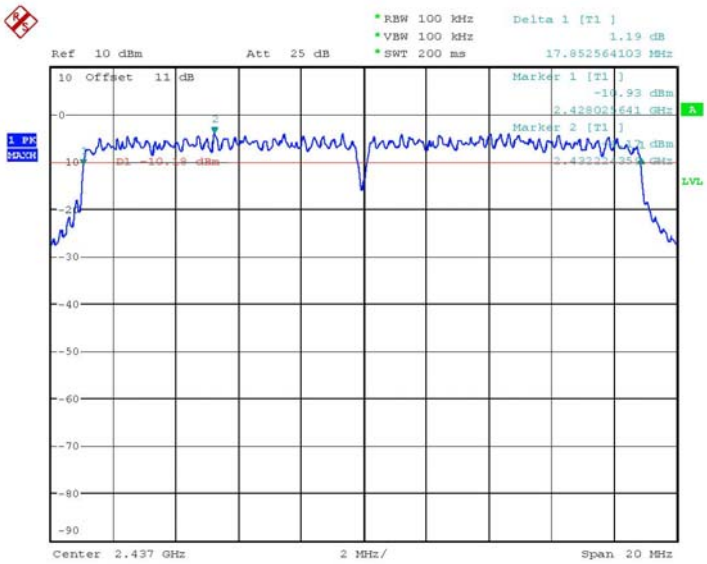
6DB BANDWIDTH 802.11g CH11
Date: 6.SEP.2010 15:28:34

WLAN mode (mode C)



6DB BANDWIDTH 802.11n 20M CH1

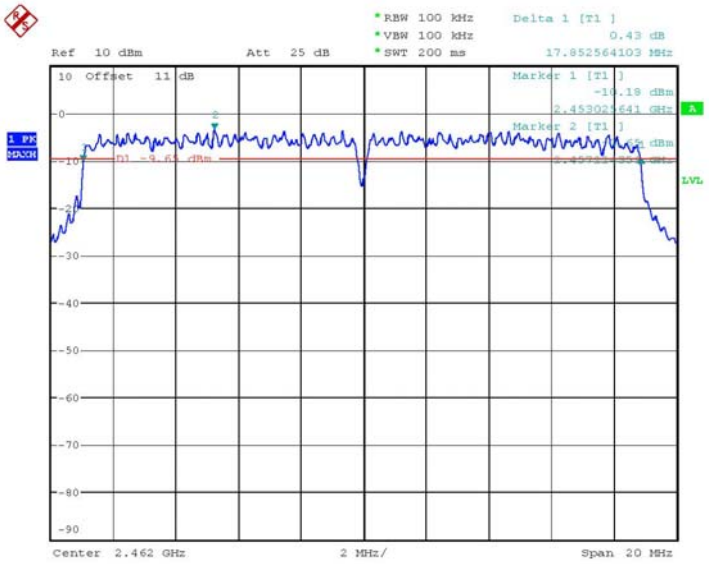
Date: 6.SEP.2010 15:32:24



6DB BANDWIDTH 802.11n 20M CH6

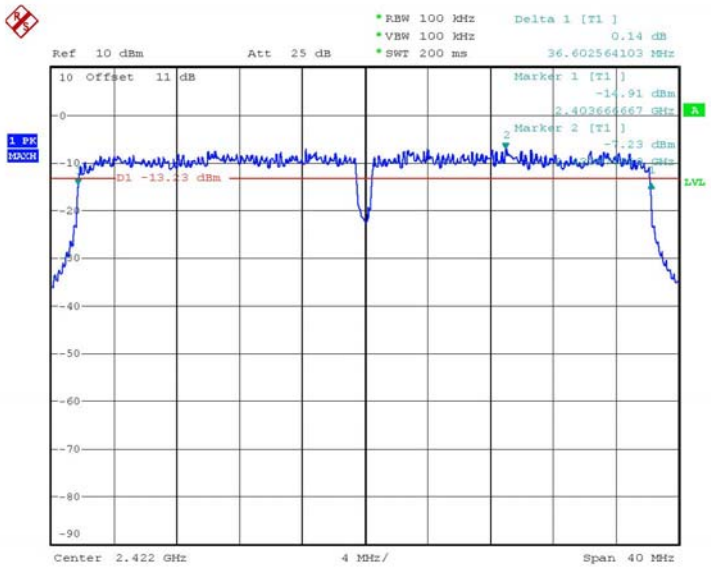
Date: 6.SEP.2010 15:35:15

Registration number: W6M21008-10827-C-1
FCC ID: JCK-T1125

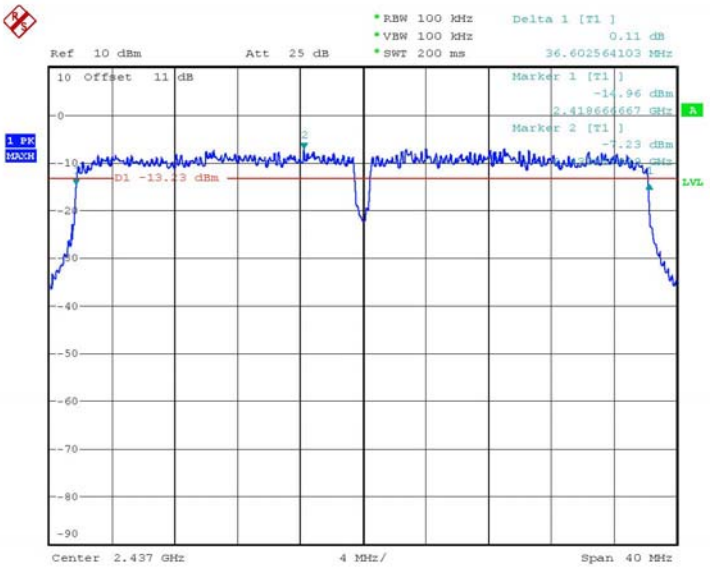


6DB BANDWIDTH 802.11n 20M CH11
Date: 6.SEP.2010 15:36:34

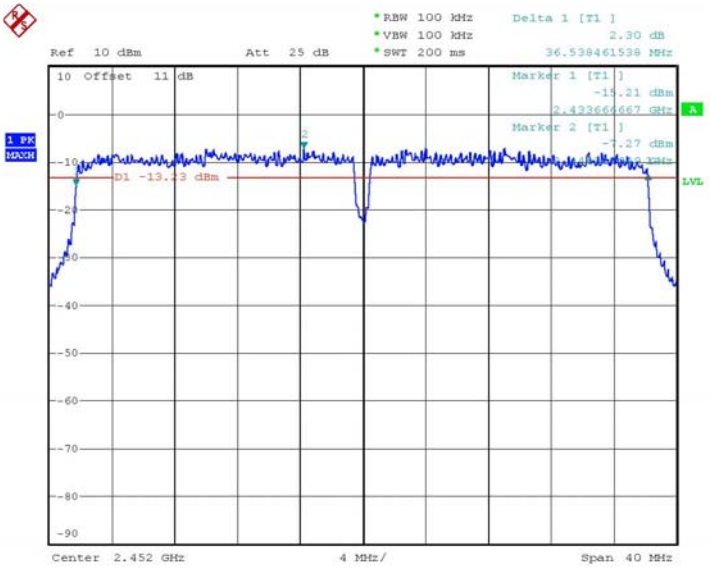
WLAN mode (mode D)



6DB BANDWIDTH 802.11n 40M CH1
Date: 6.SEP.2010 15:38:20



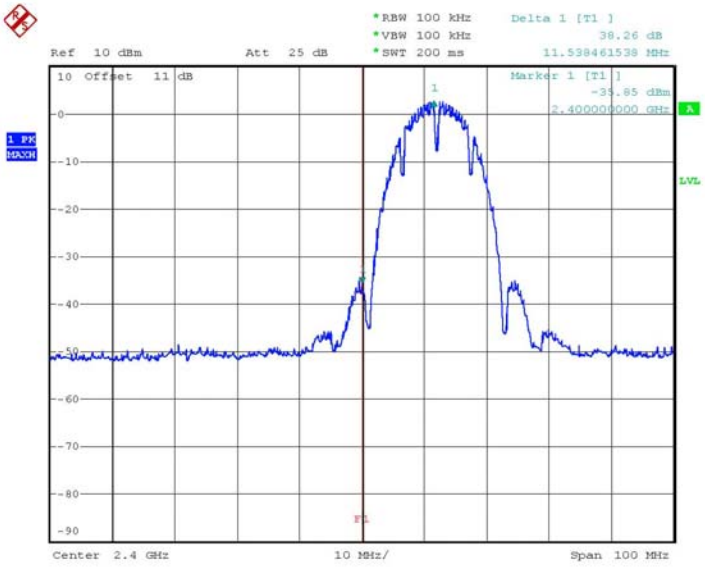
6DB BANDWIDTH 802.11n 40M CH4
Date: 6.SEP.2010 15:40:10



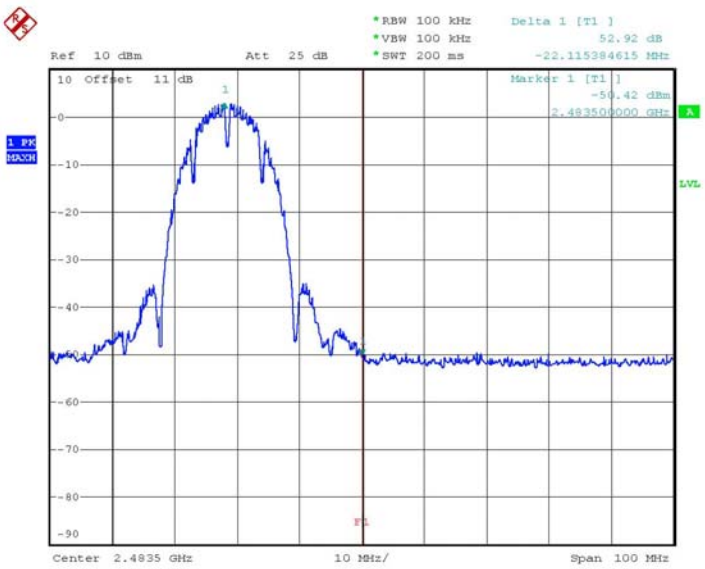
6DB BANDWIDTH 802.11n 40M CH7
Date: 6.SEP.2010 15:41:03

Band-edge Compliance of RF Conducted Emissions

WLAN mode (mode A)



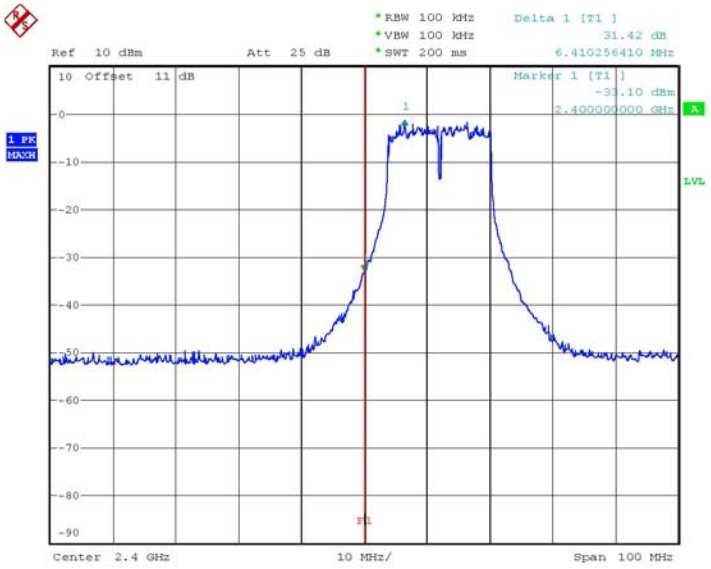
BAND EDGE 802.11b CH1
Date: 6.SEP.2010 15:45:38



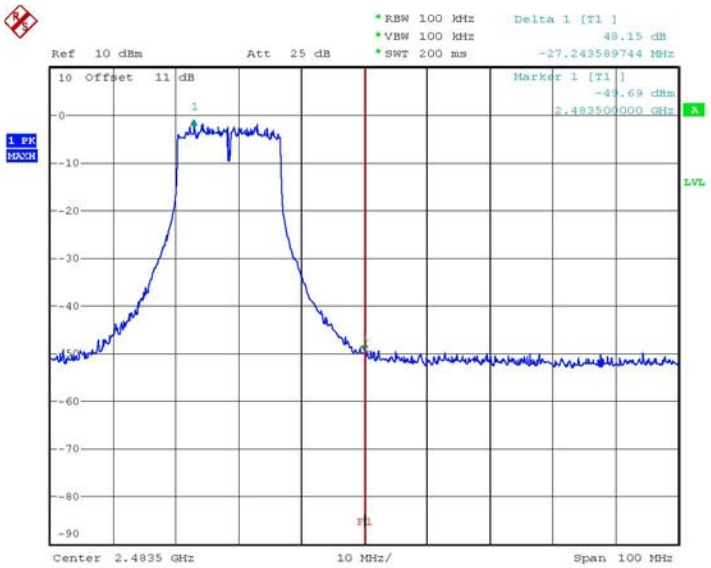
BAND EDGE 802.11b CH11
Date: 6.SEP.2010 15:52:25

Registration number: W6M21008-10827-C-1
FCC ID: JCK-T1125

WLAN mode (mode B)

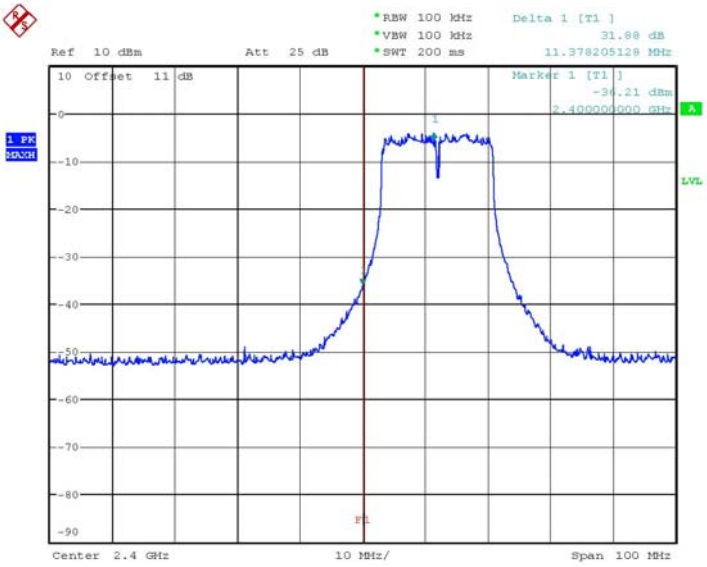


BAND EDGE 802.11g CH1
Date: 6.SEP.2010 15:46:36

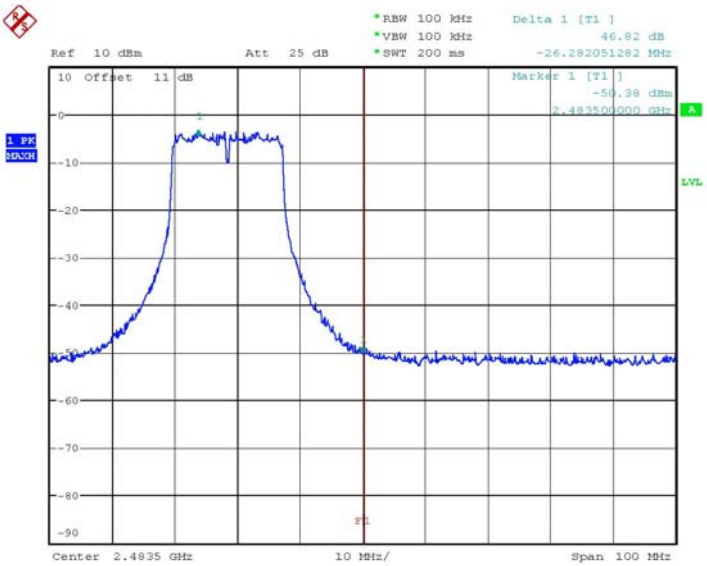


BAND EDGE 802.11g CH11
Date: 6.SEP.2010 15:51:50

WLAN mode (mode C)



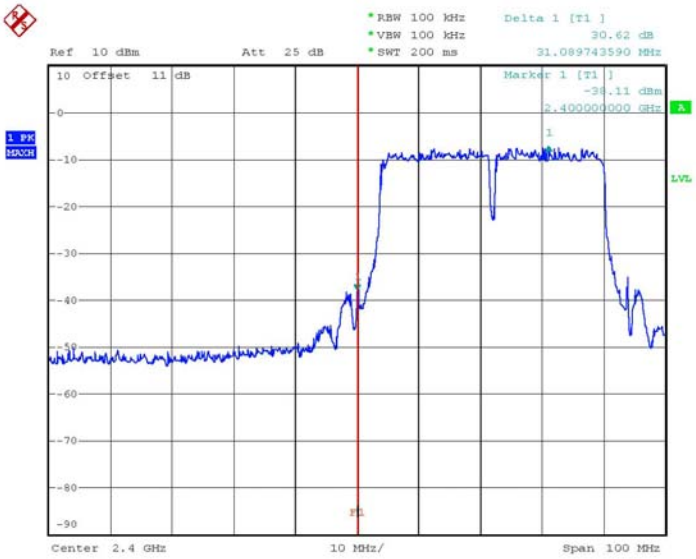
BAND EDGE 802.11n 20M CH1
Date: 6.SEP.2010 15:47:50



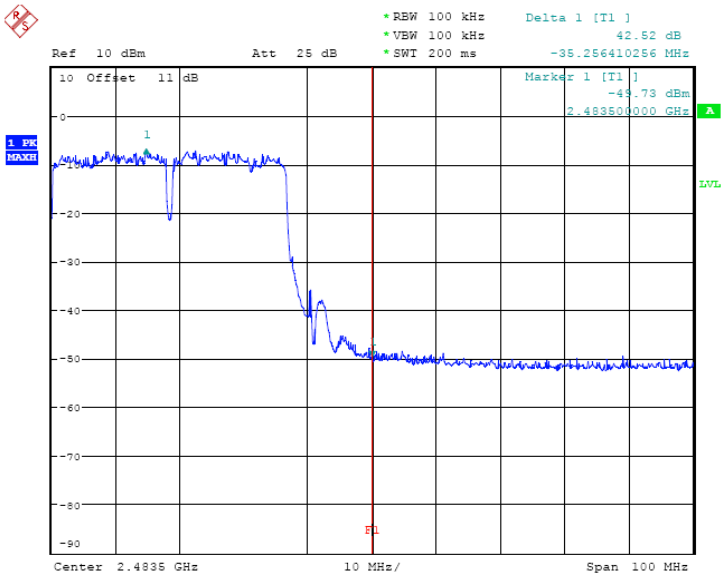
BAND EDGE 802.11n 20M CH11
Date: 6.SEP.2010 15:51:19

Registration number: W6M21008-10827-C-1
FCC ID: JCK-T1125

WLAN mode (mode D)



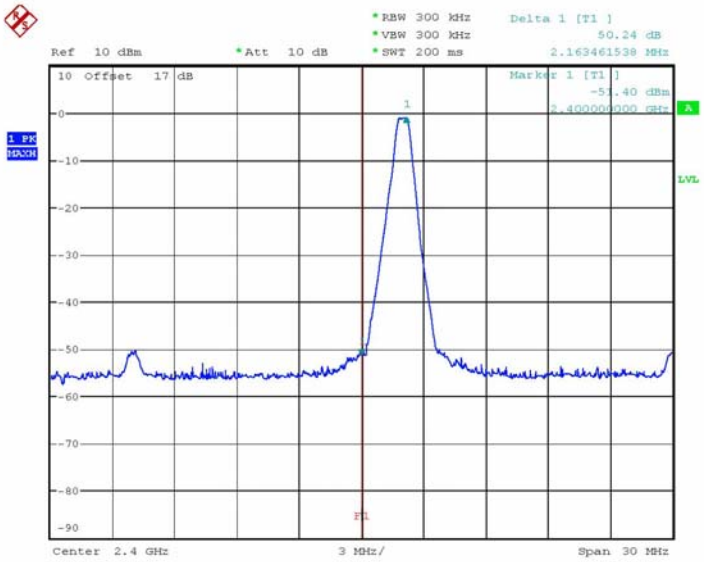
BAND EDGE 802.11n 400M CH1
Date: 6.SEP.2010 15:48:38



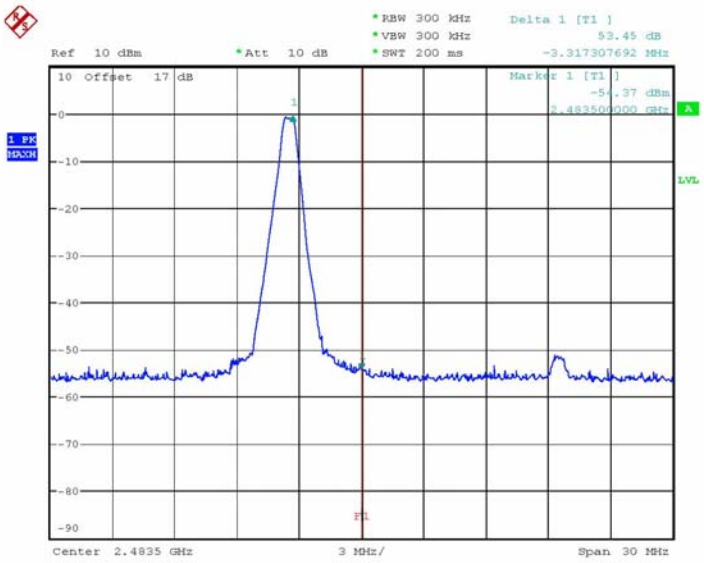
BAND EDGE 802.11n 40M CH7
Date: 6.SEP.2010 15:50:40

Registration number: W6M21008-10827-C-1
FCC ID: JCK-T1125

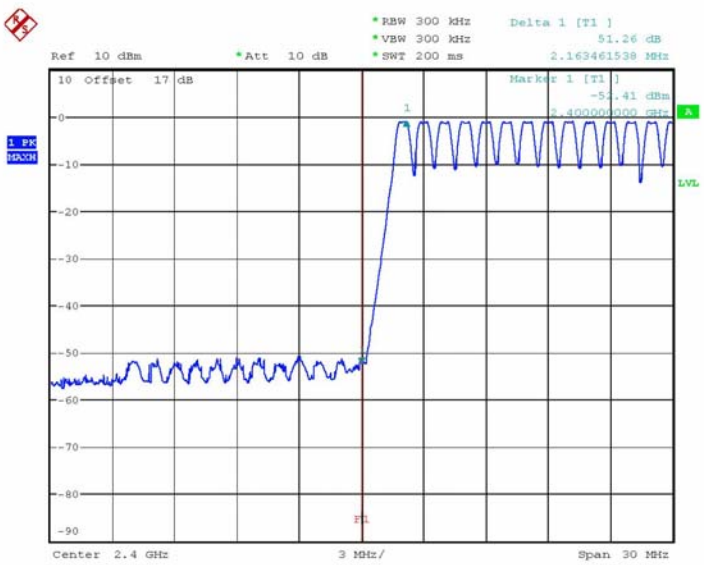
Bluetooth mode (mode E)



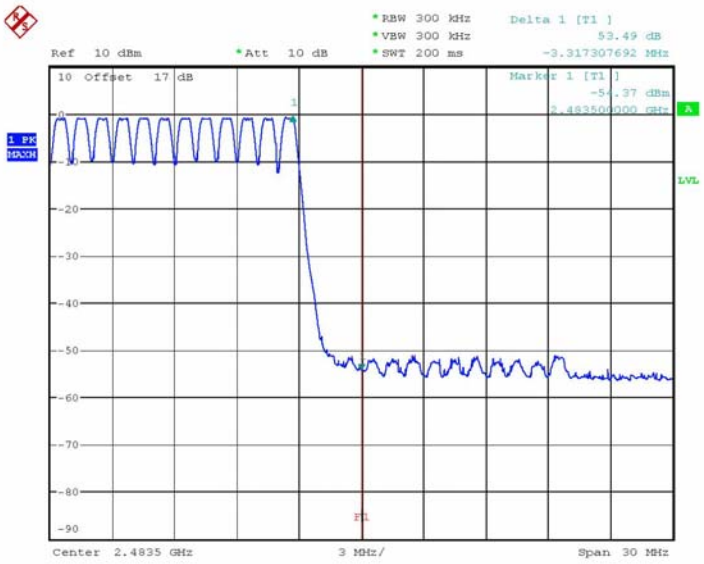
BAND EDGE CH0
Date: 30.AUG.2010 14:19:43



BAND EDGE CH78
Date: 30.AUG.2010 14:24:10



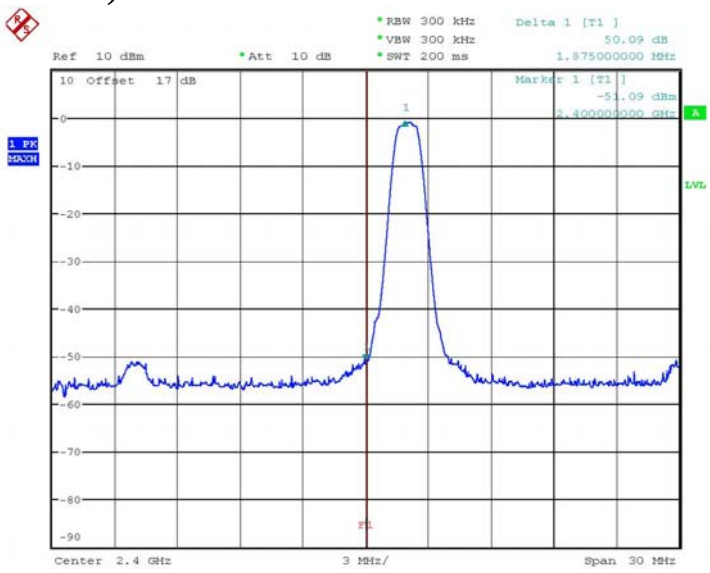
BAND EDGE CH0 HOPPING MODE
Date: 30.AUG.2010 14:31:58



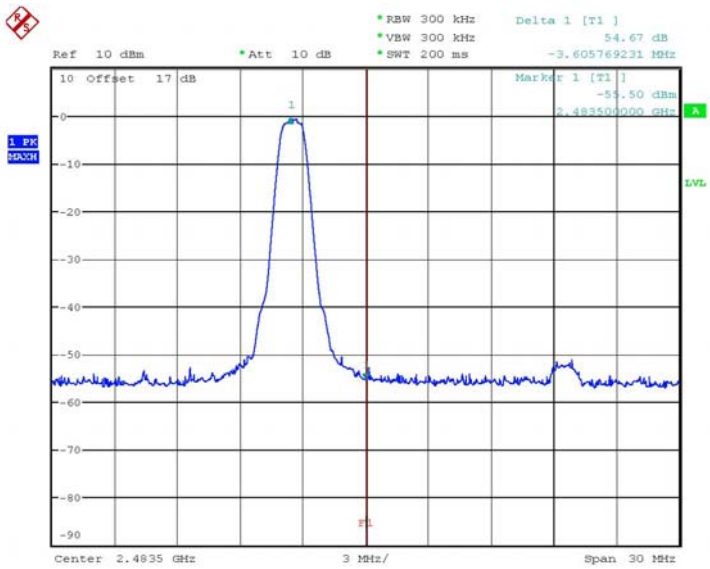
BAND EDGE CH78 HOPPING MODE
Date: 30.AUG.2010 14:28:14

Registration number: W6M21008-10827-C-1
FCC ID: JCK-T1125

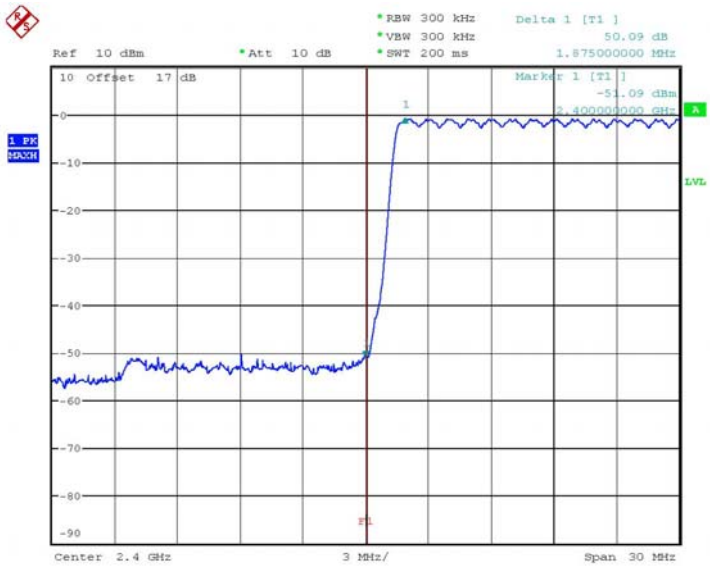
Bluetooth mode (mode F)



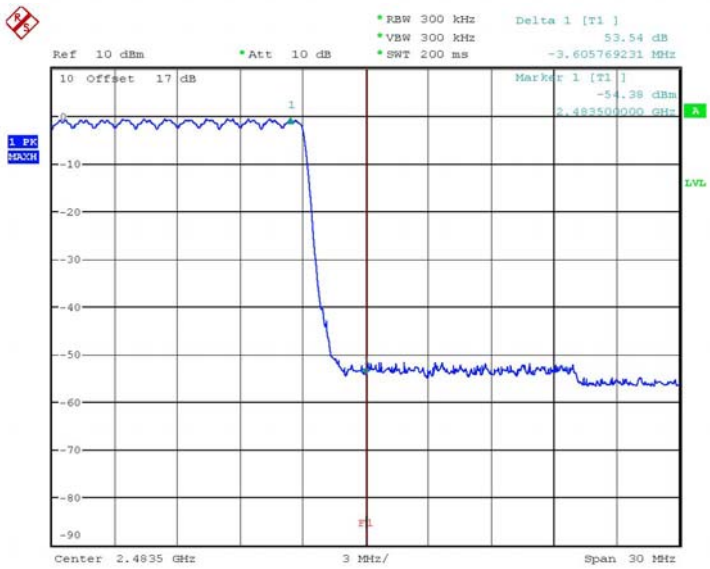
BAND EDGE CH0 EDR MODE
Date: 30.AUG.2010 14:33:29



BAND EDGE CH78 EDR MODE
Date: 30.AUG.2010 14:43:11



BAND EDGE CH0 EDR HOPPING MODE
Date: 30.AUG.2010 14:38:45

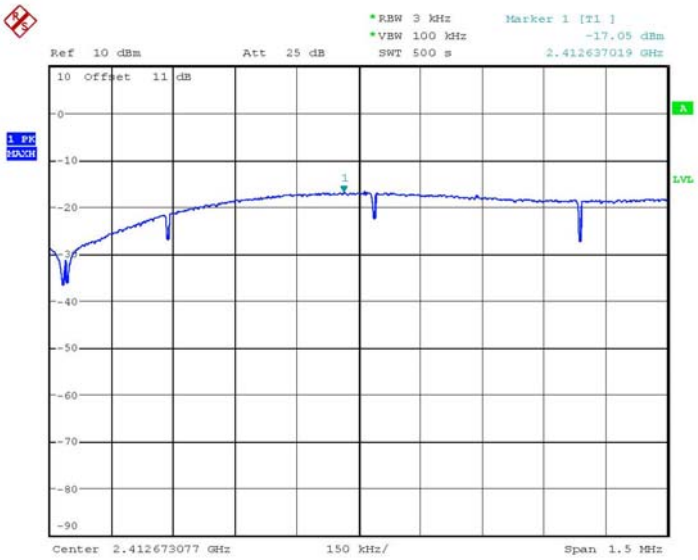


BAND EDGE CH78 EDR HOPPING MODE
Date: 30.AUG.2010 14:42:25

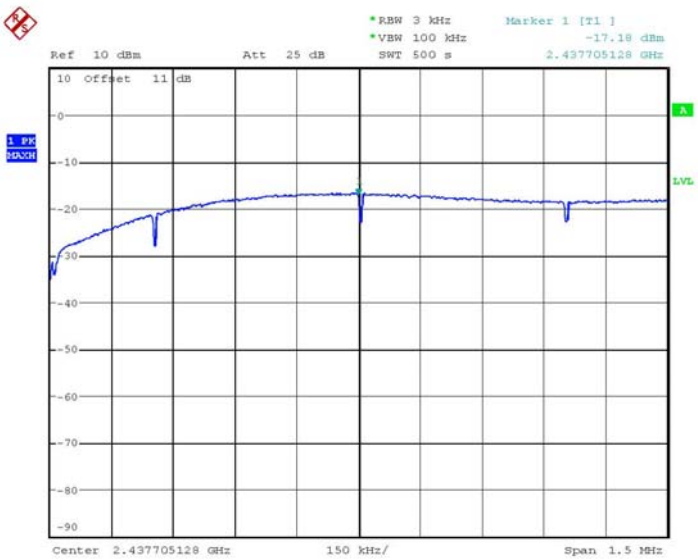
Registration number: W6M21008-10827-C-1
FCC ID: JCK-T1125

Peak Power Spectral Density

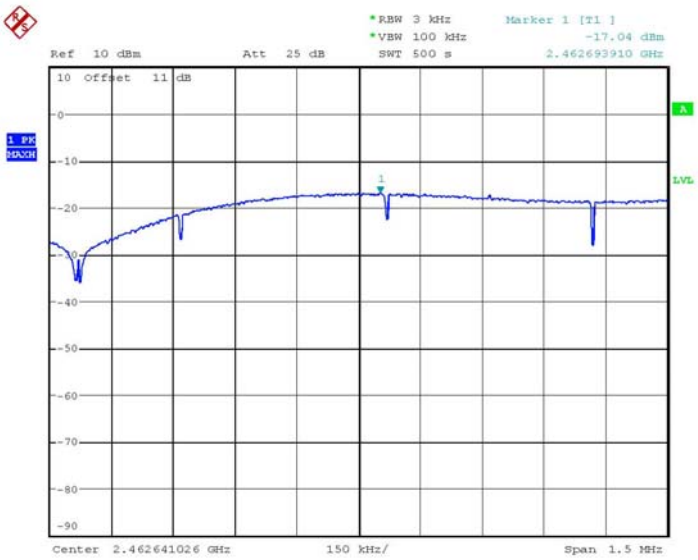
WLAN mode (mode A)



POWER DENSITY 802.11b CH1
Date: 6.SEP.2010 15:10:14

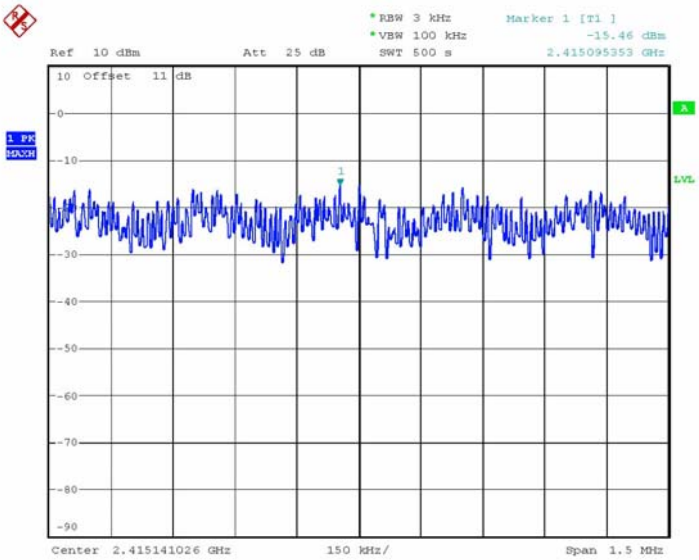


POWER DENSITY 802.11b CH6
Date: 6.SEP.2010 15:09:20

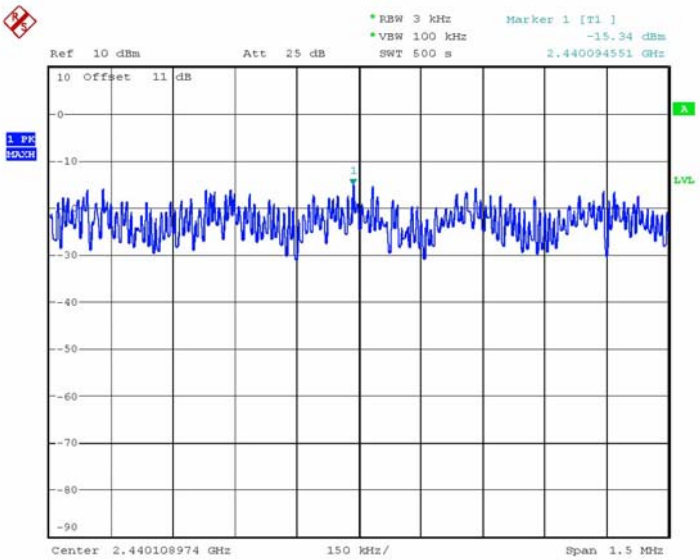


POWER DENSITY 802.11b CH11
Date: 6.SEP.2010 15:11:10

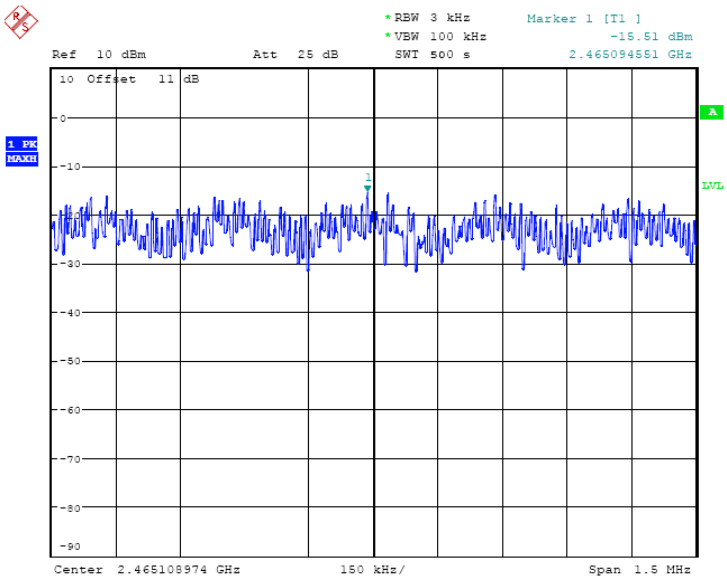
WLAN mode (mode B)



POWER DENSITY 802.11g CH1
Date: 6.SEP.2010 15:12:24

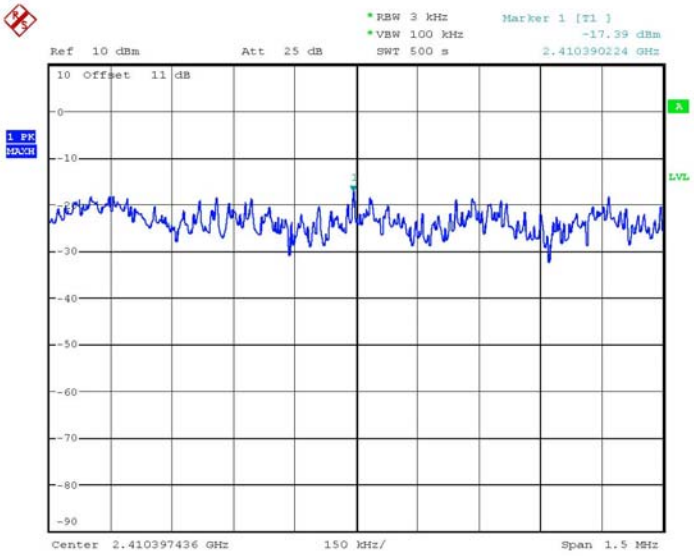


POWER DENSITY 802.11g CH6
Date: 6.SEP.2010 15:13:09

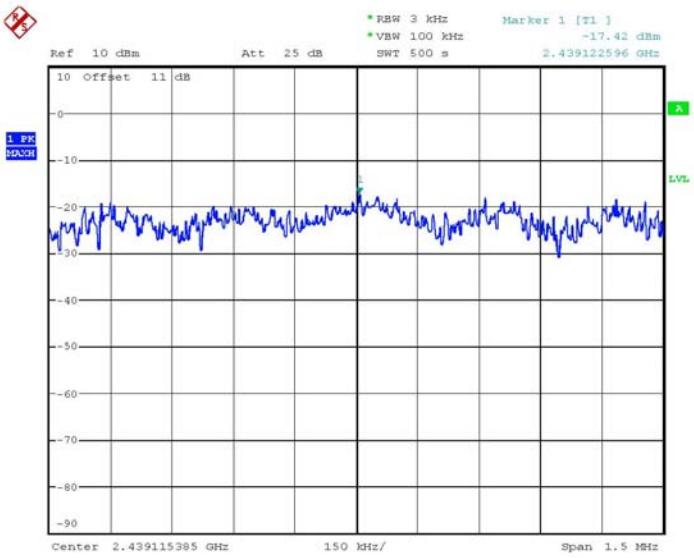


POWER DENSITY 802.11g CH11
Date: 6.SEP.2010 15:13:48

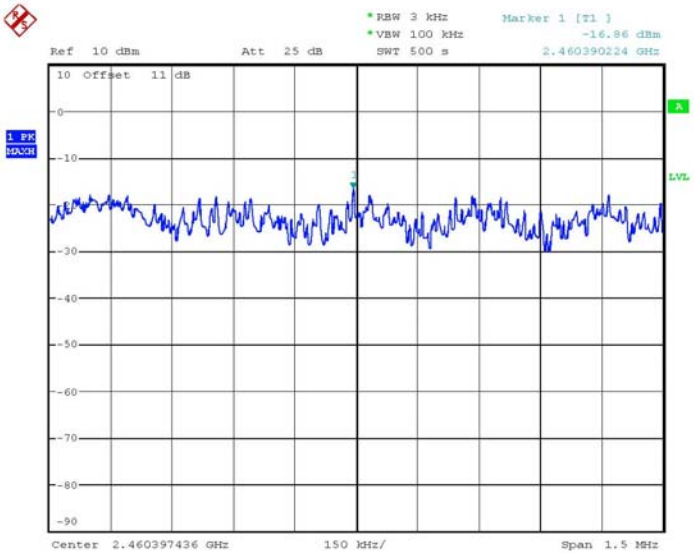
WLAN mode (mode C)



POWER DENSITY 802.11n 20M CH1
Date: 6.SEP.2010 15:14:59

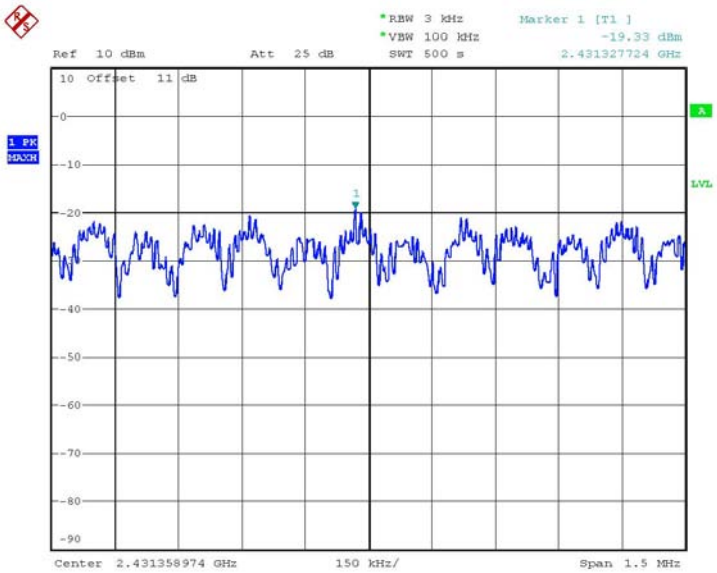


POWER DENSITY 802.11n 20M CH6
Date: 6.SEP.2010 15:15:46

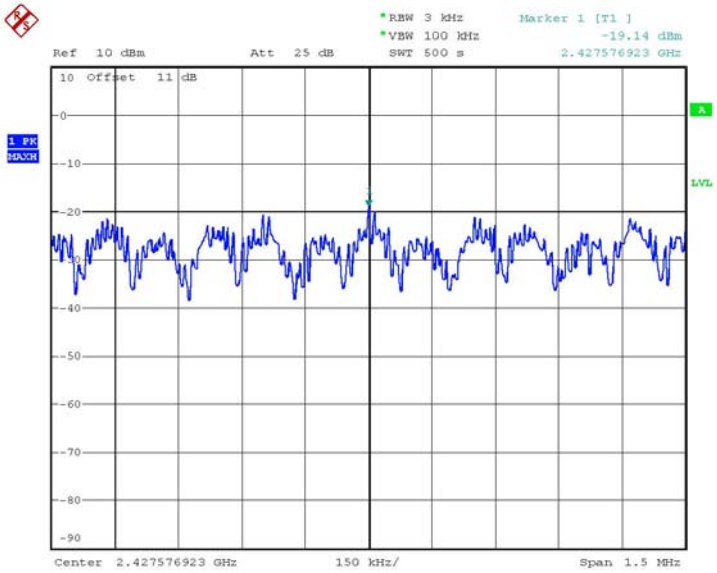


POWER DENSITY 802.11n 20M CH11
Date: 6.SEP.2010 15:16:45

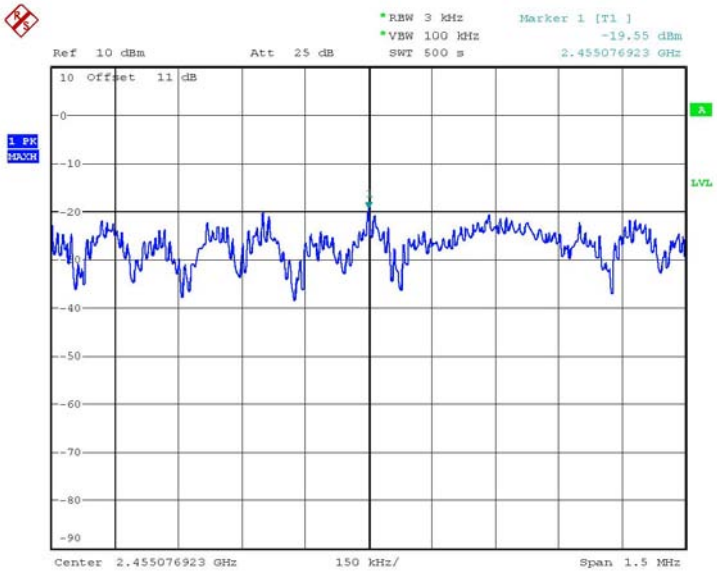
WLAN mode (mode D)



POWER DENSITY 802.11n 40M CH1
Date: 6.SEP.2010 15:18:20



POWER DENSITY 802.11n 40M CH4
Date: 6.SEP.2010 15:19:10

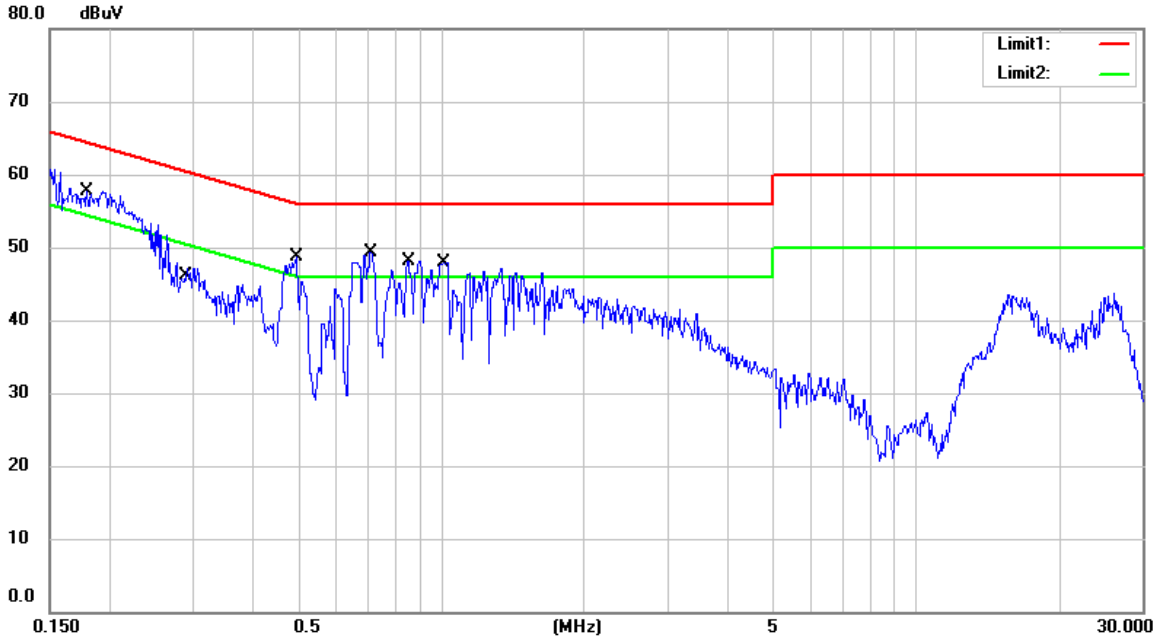


POWER DENSITY 802.11n 40M CH7
Date: 6.SEP.2010 15:19:49

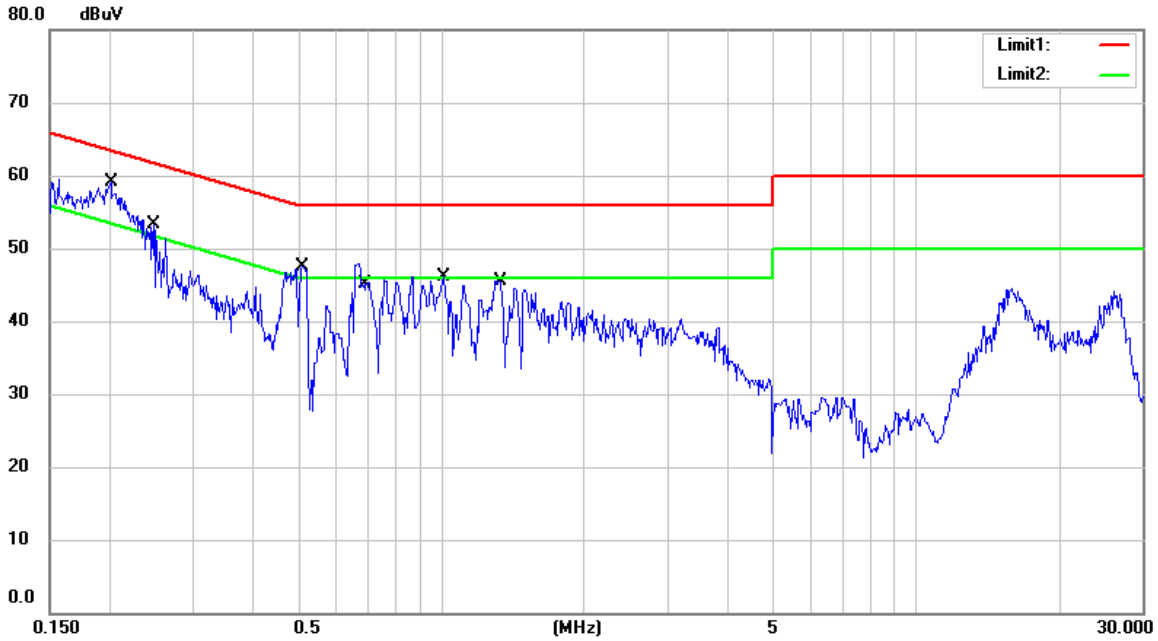
Registration number: W6M21008-10827-C-1
FCC ID: JCK-T1125

Power Line Conducted Emission

LISN N



LISN L1



Up Line: QP 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 AC conducted test data of this test report.**